

Pantheon Report

Generated at 2017-09-21 14:21:38 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

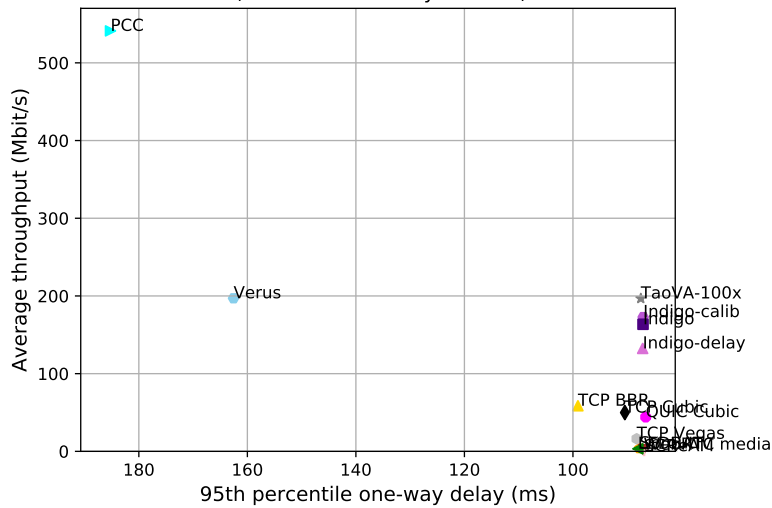
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

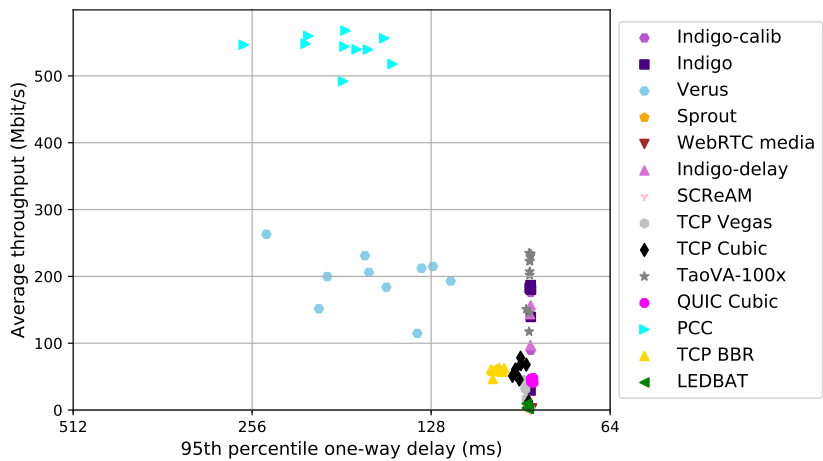
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
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 Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa 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	58.70	99.08	0.08
TCP Cubic	9	49.92	90.43	0.14
LEDBAT	10	3.28	88.04	0.82
PCC	10	541.12	185.22	1.21
QUIC Cubic	10	44.13	86.59	0.00
SCReAM	7	0.22	86.89	0.00
WebRTC media	10	2.16	86.98	0.00
Sprout	10	3.77	87.72	0.63
TaoVA-100x	10	196.75	87.50	0.00
TCP Vegas	10	16.19	88.25	0.27
Verus	10	197.00	162.55	0.29
Indigo	10	163.54	87.09	0.00
Indigo-calib	10	172.83	87.05	0.00
Indigo-delay	3	132.47	87.15	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 11:12:59

End at: 2017-09-21 11:13:29

Below is generated by plot.py at 2017-09-21 13:41:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 100.902 ms

Loss rate: 0.29%

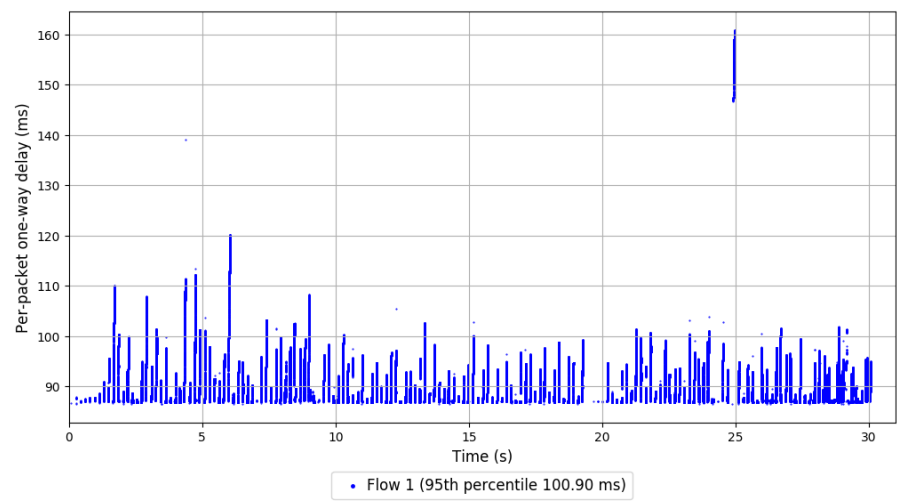
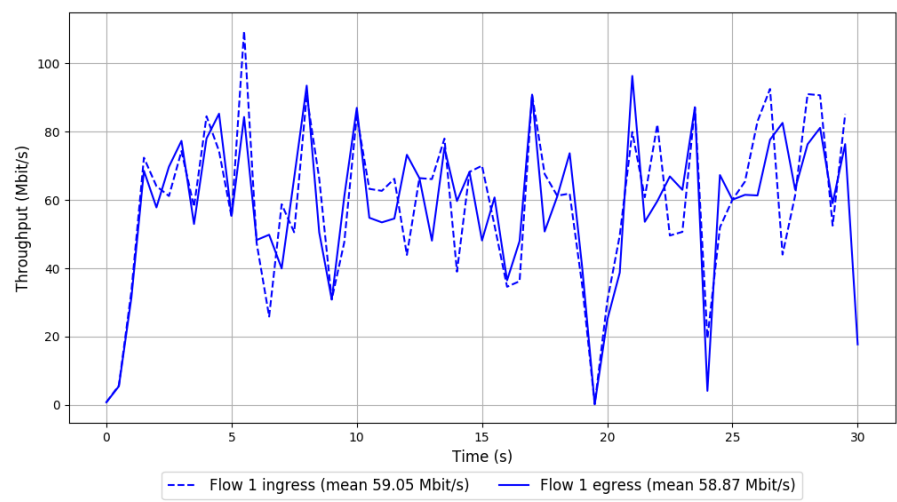
-- Flow 1:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 100.902 ms

Loss rate: 0.29%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 11:23:41

End at: 2017-09-21 11:24:11

Below is generated by plot.py at 2017-09-21 13:41:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.24 Mbit/s

95th percentile per-packet one-way delay: 97.355 ms

Loss rate: 0.05%

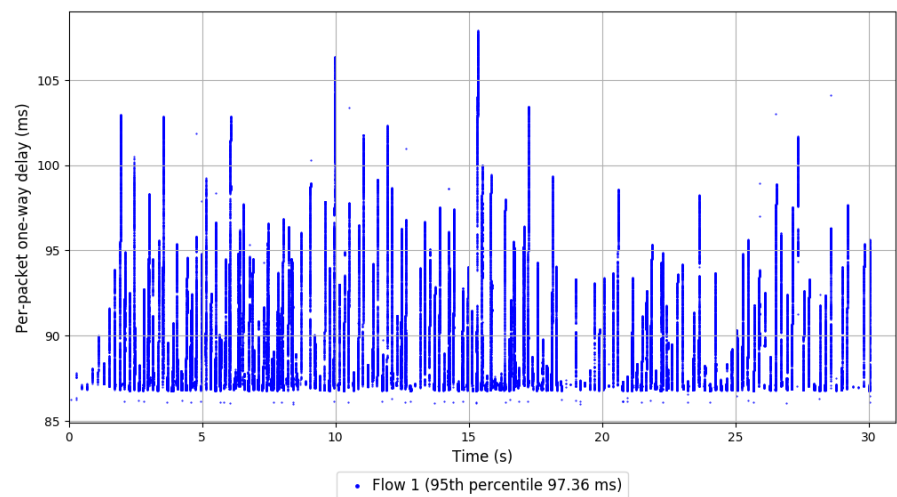
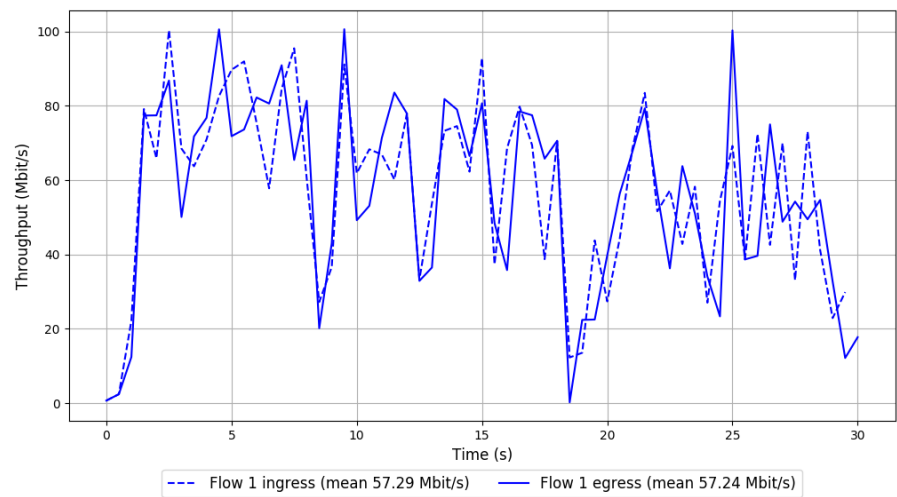
-- Flow 1:

Average throughput: 57.24 Mbit/s

95th percentile per-packet one-way delay: 97.355 ms

Loss rate: 0.05%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-21 11:34:31

End at: 2017-09-21 11:35:01

Below is generated by plot.py at 2017-09-21 13:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.55 Mbit/s

95th percentile per-packet one-way delay: 99.859 ms

Loss rate: 0.05%

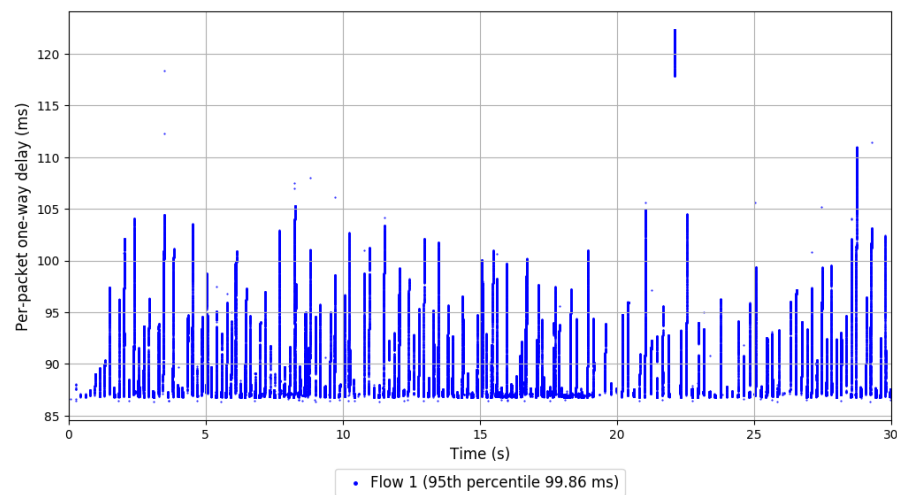
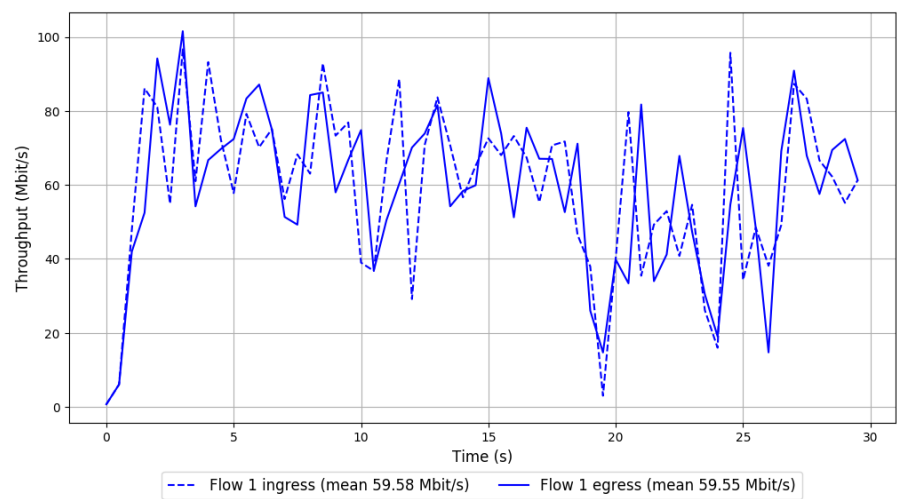
-- Flow 1:

Average throughput: 59.55 Mbit/s

95th percentile per-packet one-way delay: 99.859 ms

Loss rate: 0.05%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 11:45:18

End at: 2017-09-21 11:45:48

Below is generated by plot.py at 2017-09-21 13:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 98.355 ms

Loss rate: 0.02%

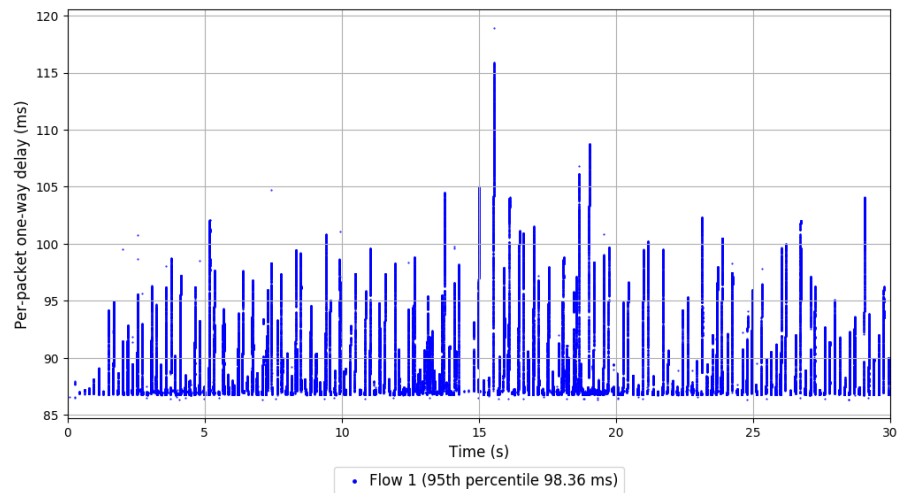
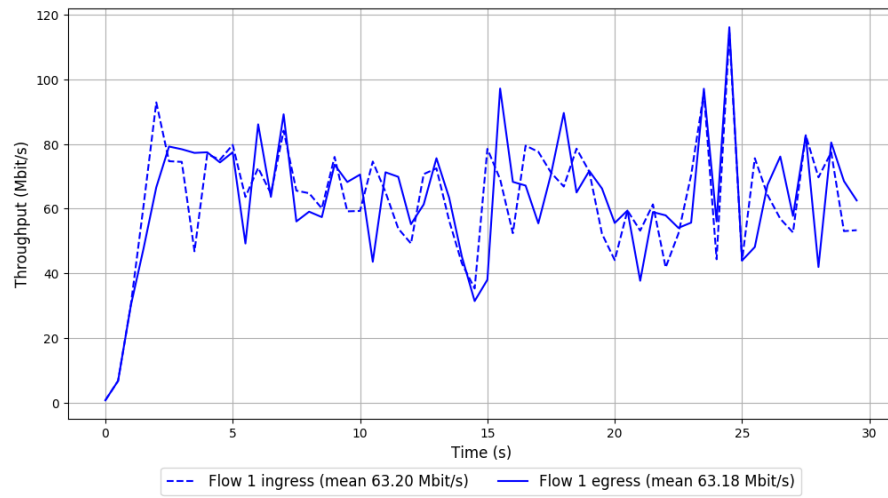
-- Flow 1:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 98.355 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 11:56:07

End at: 2017-09-21 11:56:37

Below is generated by plot.py at 2017-09-21 13:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 100.803 ms

Loss rate: 0.06%

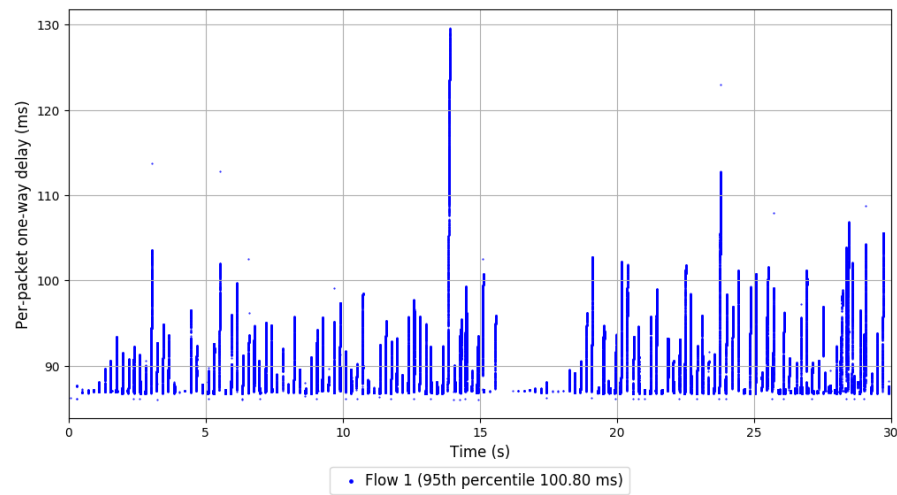
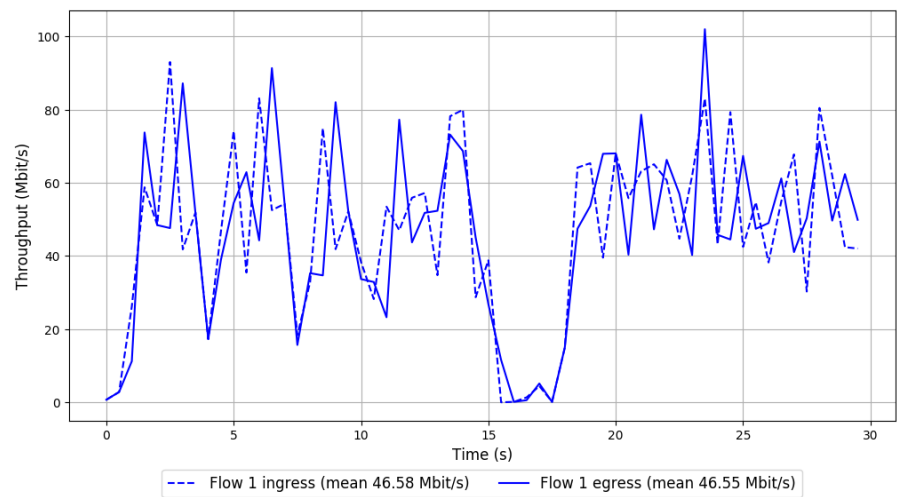
-- Flow 1:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 100.803 ms

Loss rate: 0.06%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 12:07:02

End at: 2017-09-21 12:07:32

Below is generated by plot.py at 2017-09-21 13:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 96.987 ms

Loss rate: 0.04%

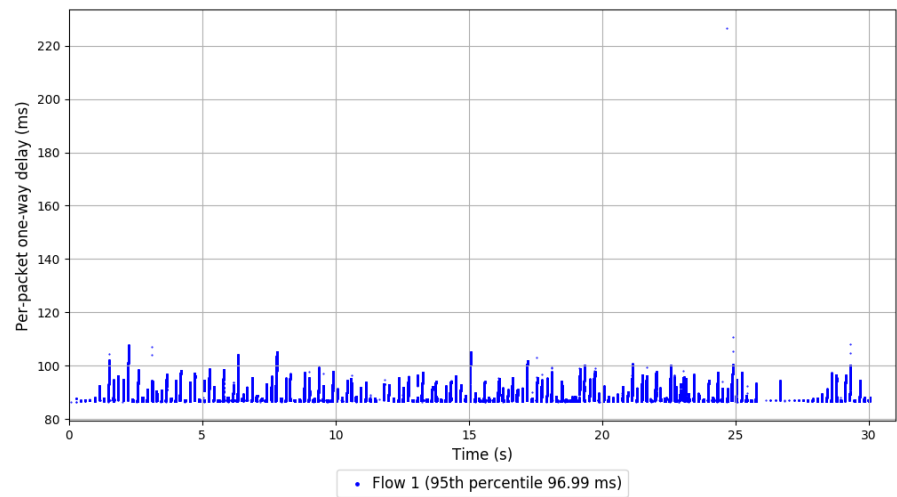
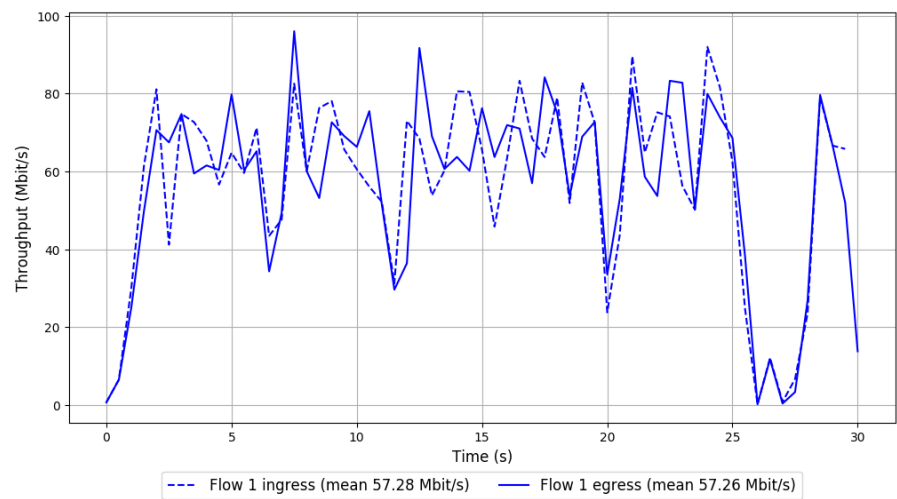
-- Flow 1:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 96.987 ms

Loss rate: 0.04%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-21 12:17:35

End at: 2017-09-21 12:18:05

Below is generated by plot.py at 2017-09-21 13:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.04 Mbit/s

95th percentile per-packet one-way delay: 101.498 ms

Loss rate: 0.08%

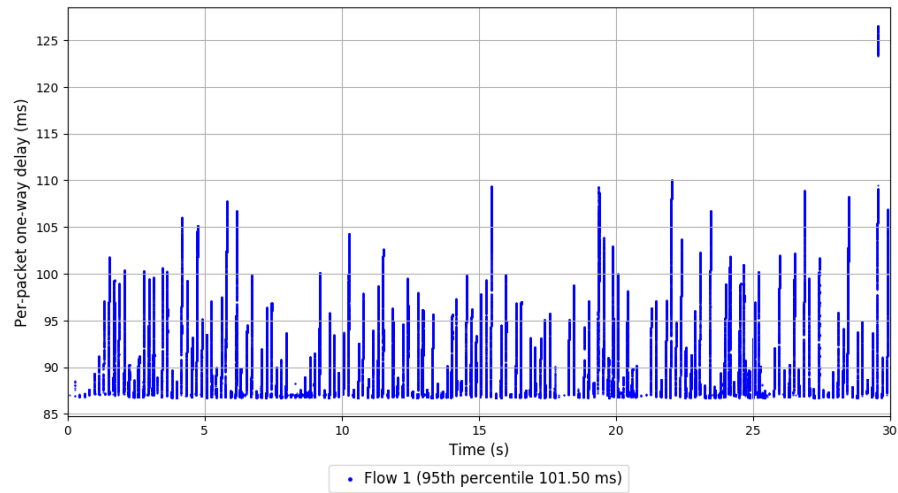
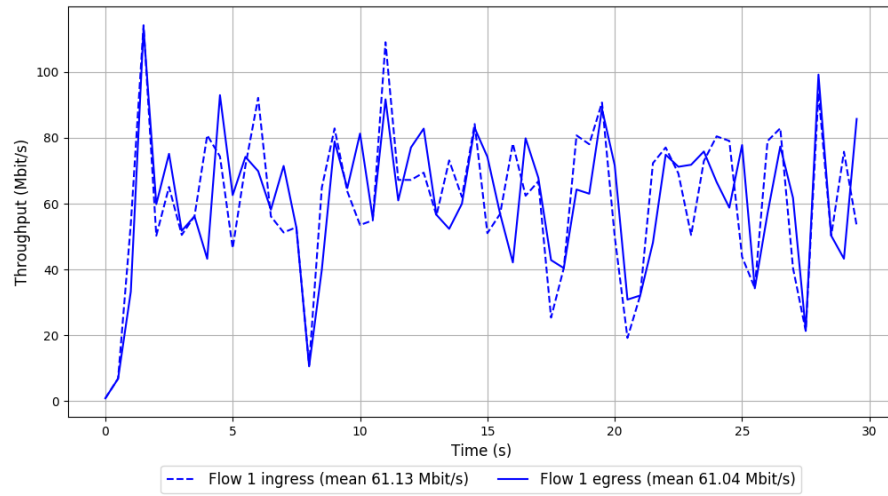
-- Flow 1:

Average throughput: 61.04 Mbit/s

95th percentile per-packet one-way delay: 101.498 ms

Loss rate: 0.08%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-21 12:28:34

End at: 2017-09-21 12:29:04

Below is generated by plot.py at 2017-09-21 13:41:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 99.336 ms

Loss rate: 0.06%

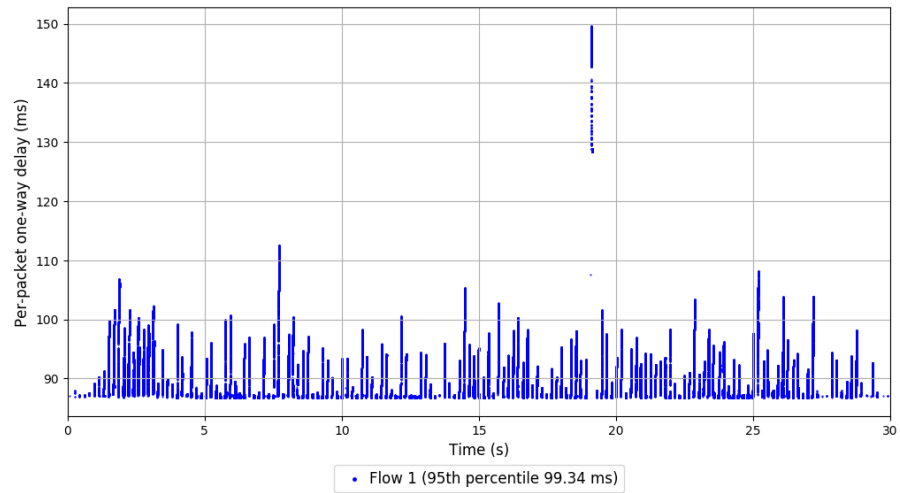
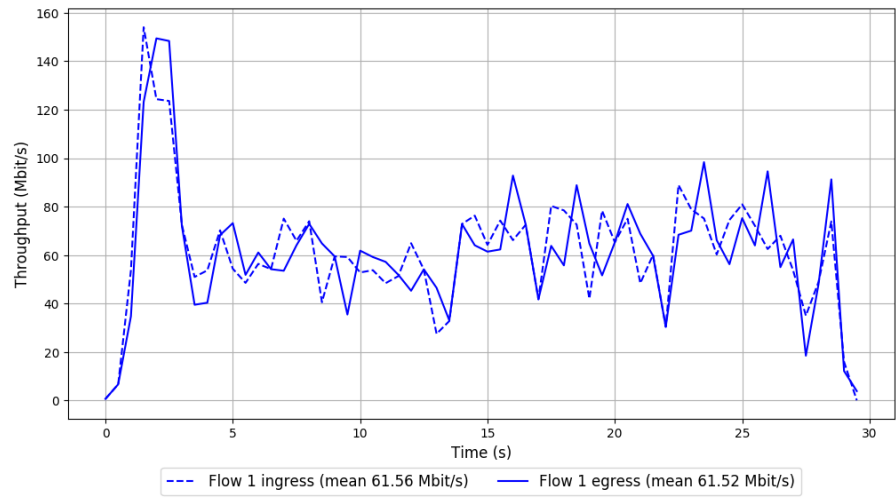
-- Flow 1:

Average throughput: 61.52 Mbit/s

95th percentile per-packet one-way delay: 99.336 ms

Loss rate: 0.06%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-21 12:39:38

End at: 2017-09-21 12:40:08

Below is generated by plot.py at 2017-09-21 13:42:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 99.288 ms

Loss rate: 0.08%

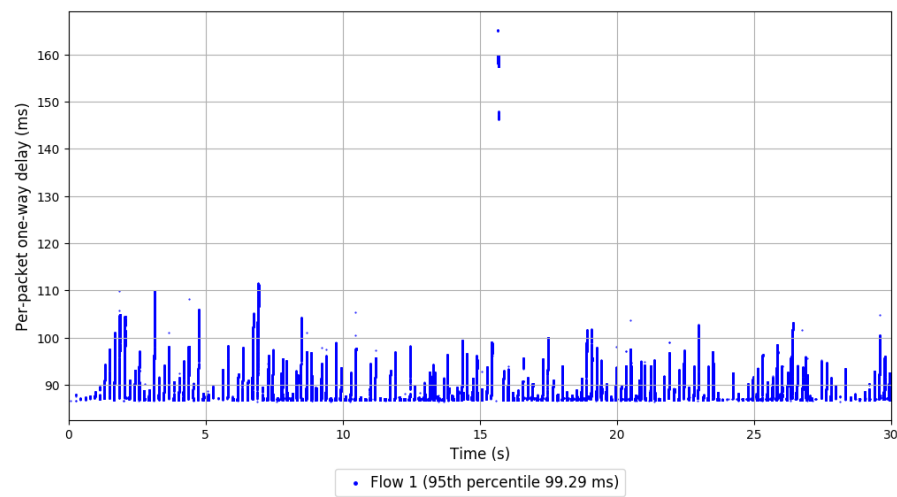
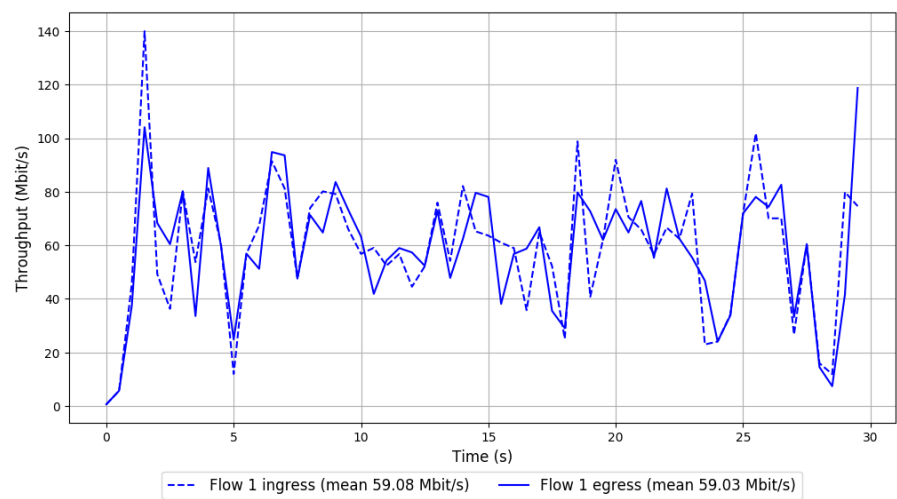
-- Flow 1:

Average throughput: 59.03 Mbit/s

95th percentile per-packet one-way delay: 99.288 ms

Loss rate: 0.08%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-21 12:50:34

End at: 2017-09-21 12:51:04

Below is generated by plot.py at 2017-09-21 13:42:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 96.431 ms

Loss rate: 0.03%

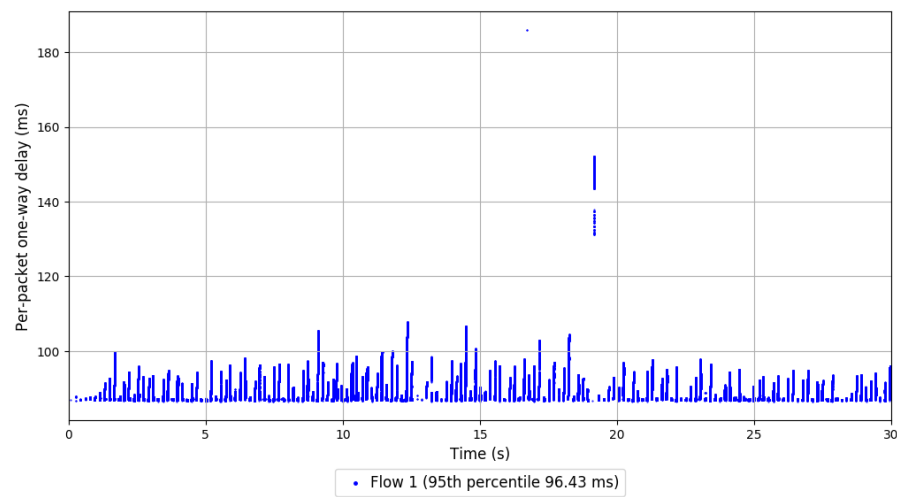
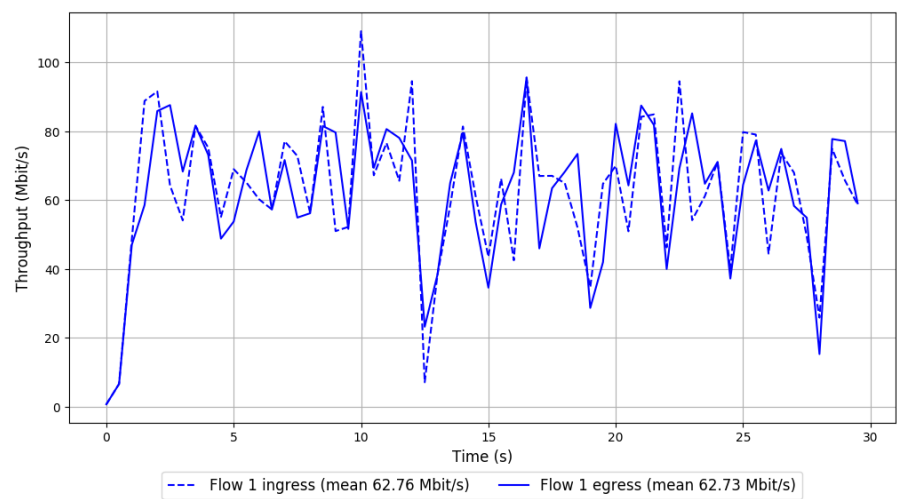
-- Flow 1:

Average throughput: 62.73 Mbit/s

95th percentile per-packet one-way delay: 96.431 ms

Loss rate: 0.03%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 11:09:39

End at: 2017-09-21 11:10:09

Below is generated by plot.py at 2017-09-21 13:42:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 92.072 ms

Loss rate: 0.03%

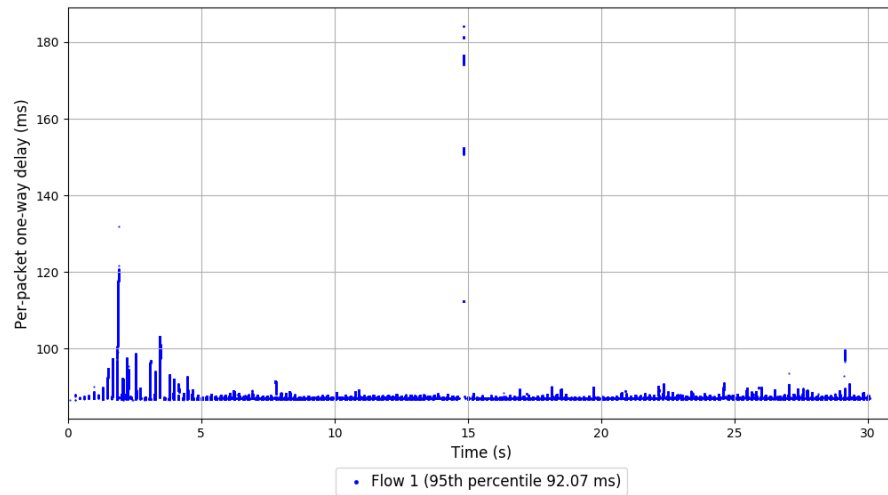
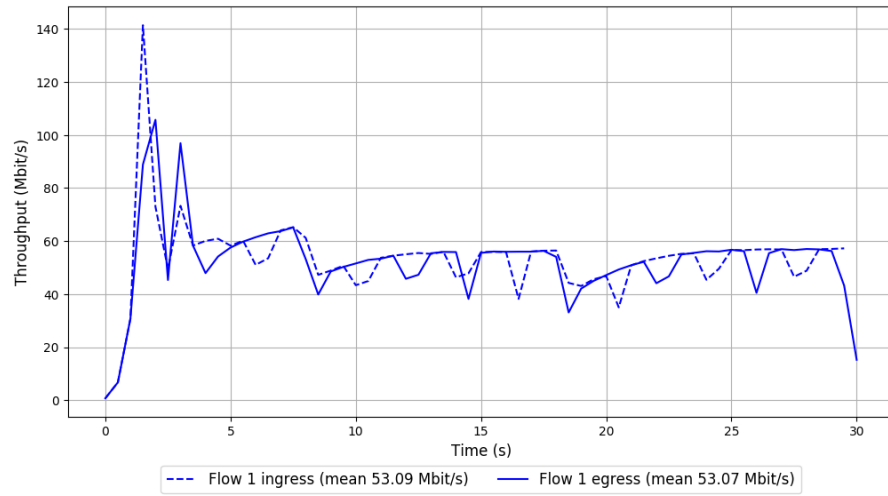
-- Flow 1:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 92.072 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 11:20:14

End at: 2017-09-21 11:20:44

Below is generated by plot.py at 2017-09-21 13:42:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 93.409 ms

Loss rate: 0.01%

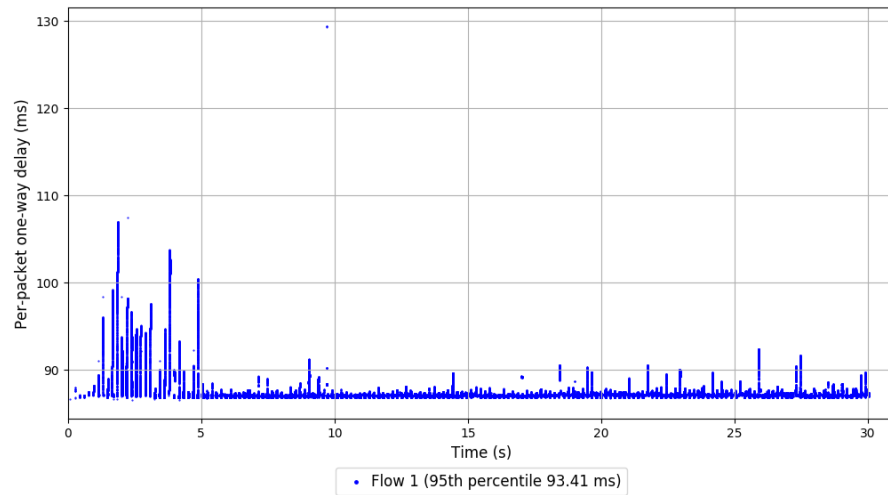
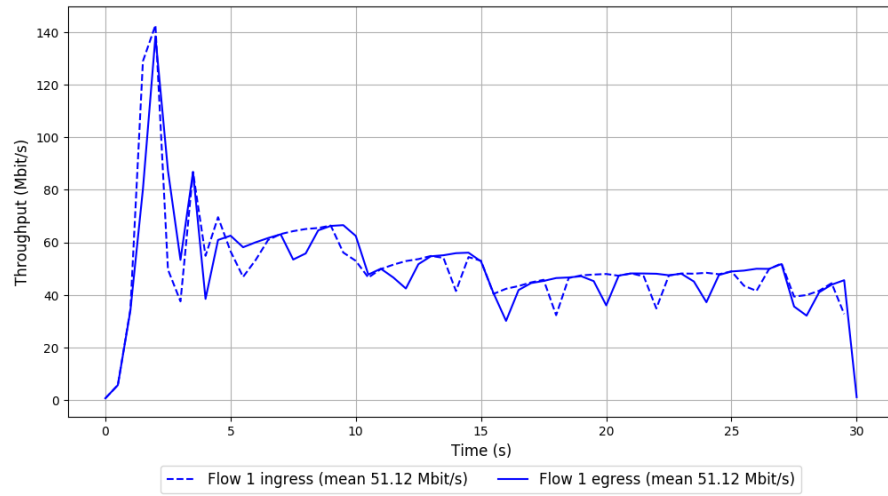
-- Flow 1:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 93.409 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 11:30:53

End at: 2017-09-21 11:31:23

Below is generated by plot.py at 2017-09-21 13:42:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.31 Mbit/s

95th percentile per-packet one-way delay: 90.523 ms

Loss rate: 0.02%

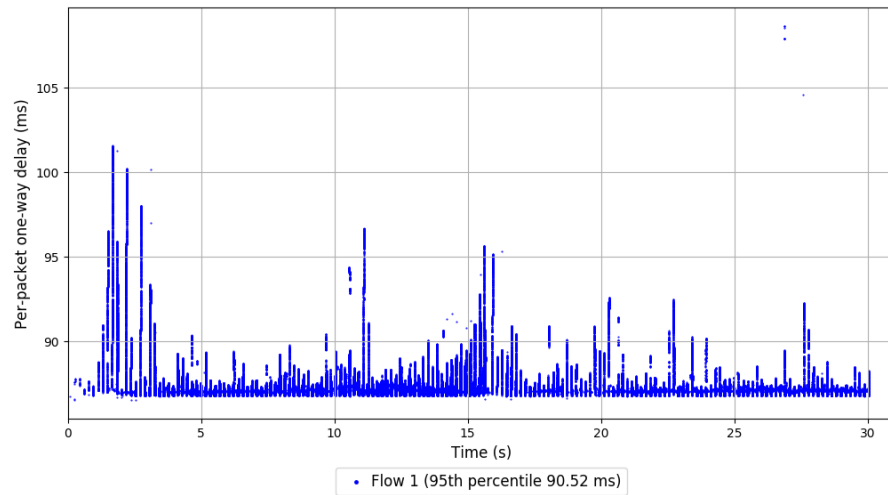
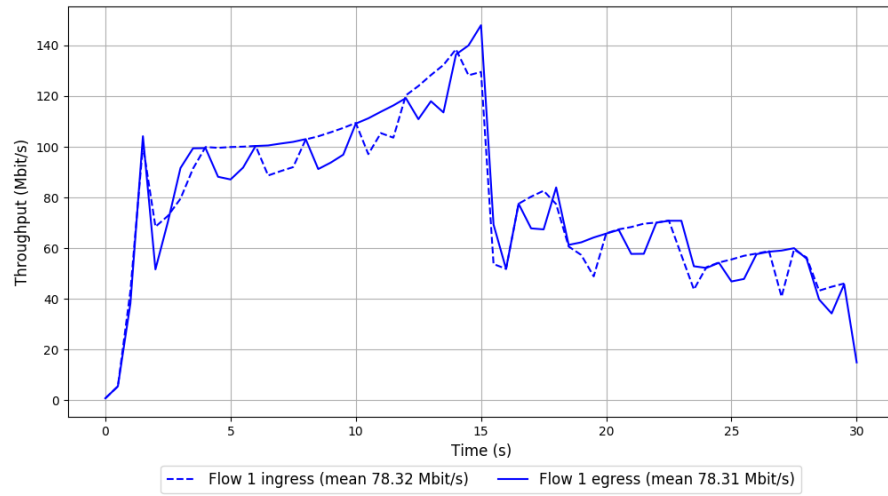
-- Flow 1:

Average throughput: 78.31 Mbit/s

95th percentile per-packet one-way delay: 90.523 ms

Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 11:41:43

End at: 2017-09-21 11:42:13

Below is generated by plot.py at 2017-09-21 13:42:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 90.407 ms

Loss rate: 0.24%

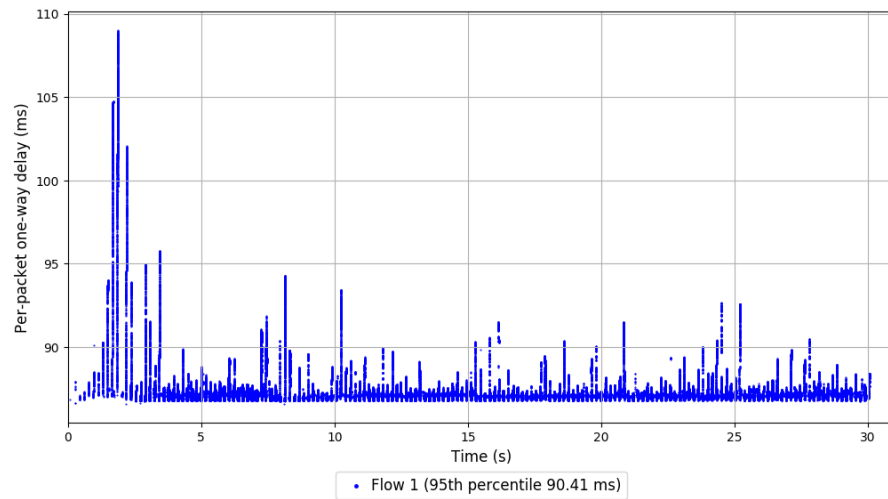
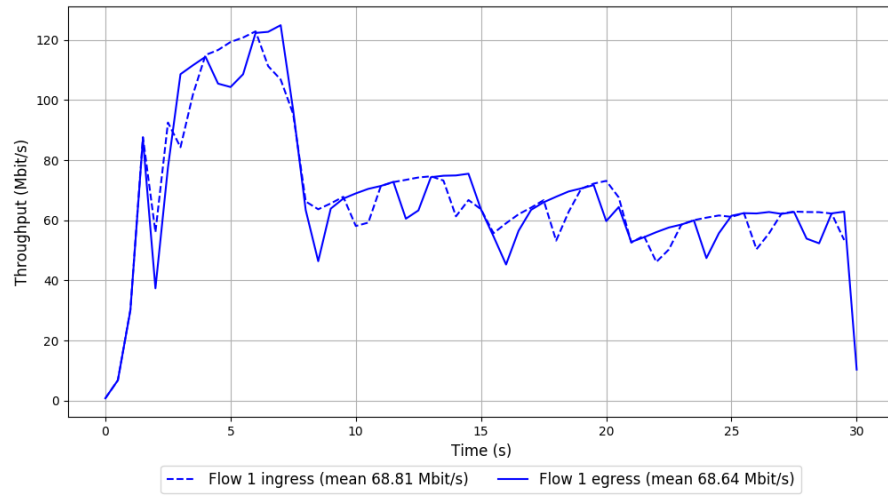
-- Flow 1:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 90.407 ms

Loss rate: 0.24%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 11:52:37

End at: 2017-09-21 11:53:07

Below is generated by plot.py at 2017-09-21 13:42:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.23 Mbit/s

95th percentile per-packet one-way delay: 87.904 ms

Loss rate: 0.07%

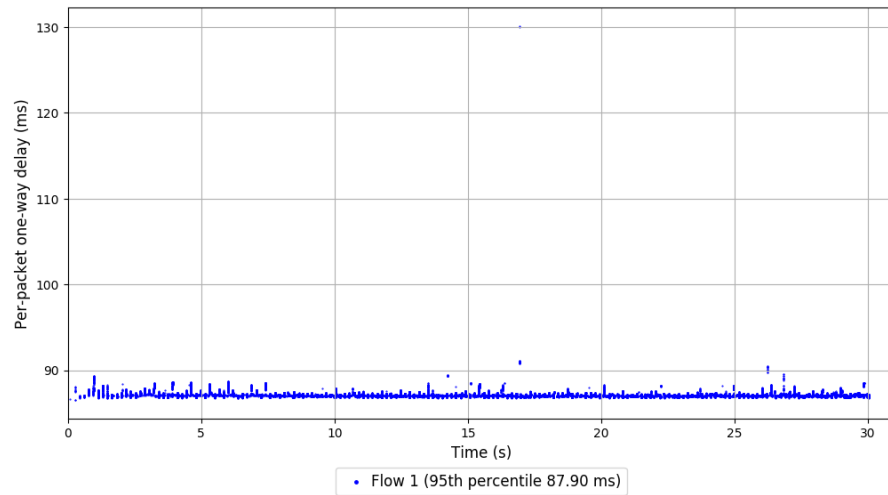
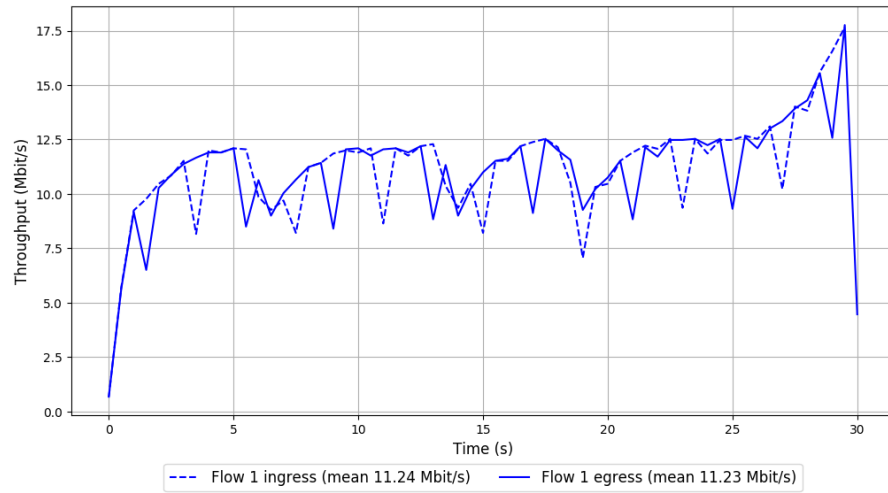
-- Flow 1:

Average throughput: 11.23 Mbit/s

95th percentile per-packet one-way delay: 87.904 ms

Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 12:03:26

End at: 2017-09-21 12:03:56

Below is generated by plot.py at 2017-09-21 13:42:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 87.720 ms

Loss rate: 0.84%

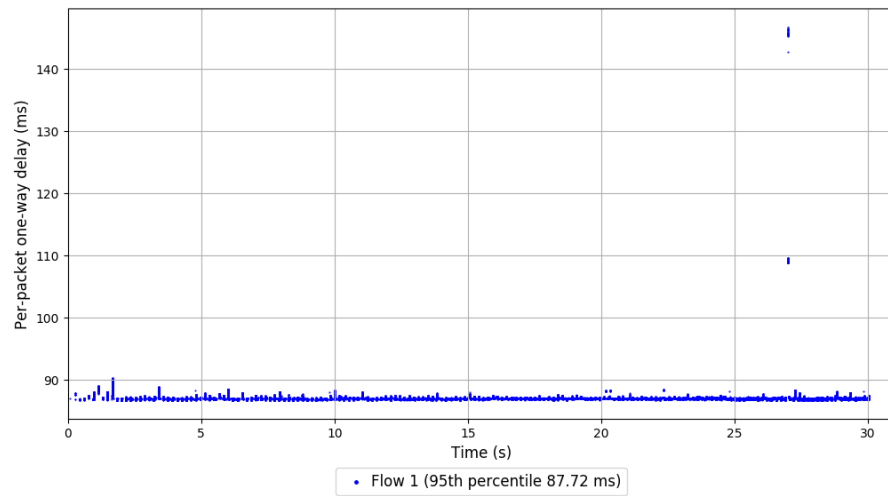
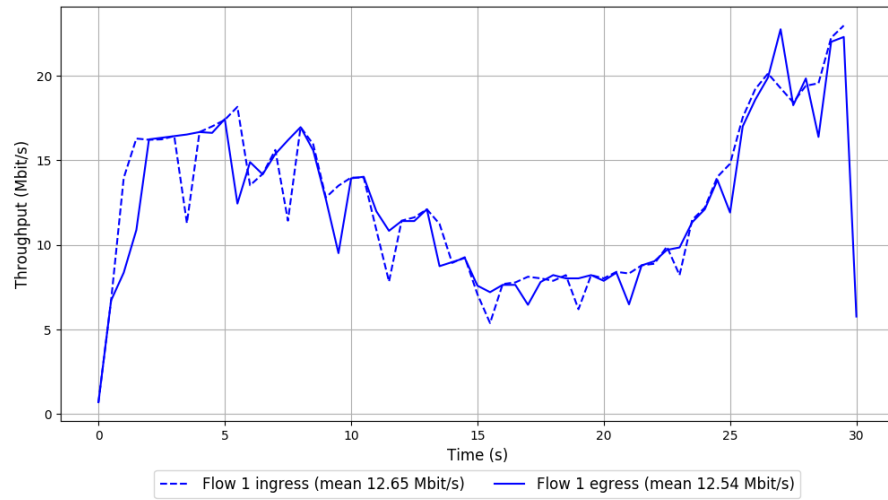
-- Flow 1:

Average throughput: 12.54 Mbit/s

95th percentile per-packet one-way delay: 87.720 ms

Loss rate: 0.84%

Run 6: Report of TCP Cubic — Data Link

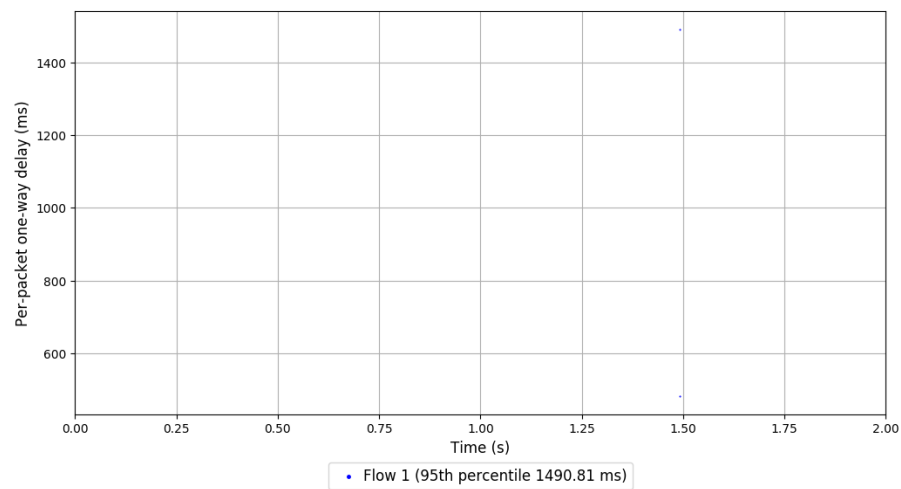
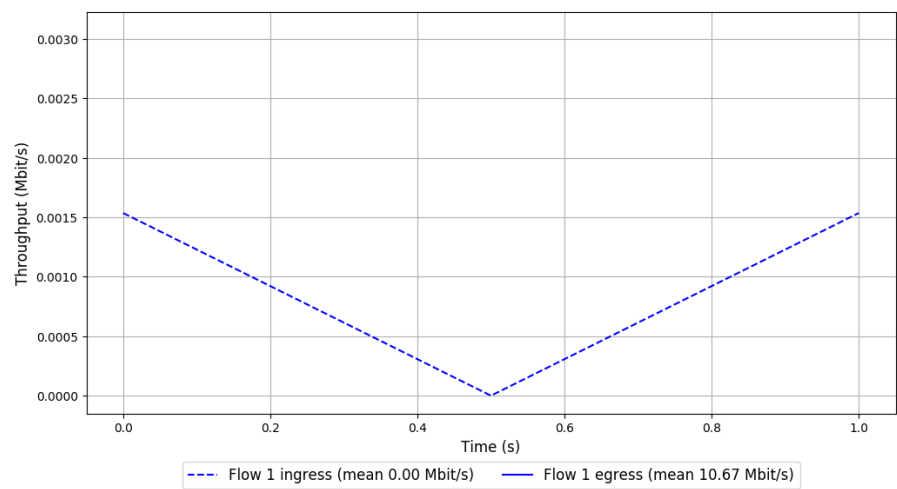


Run 7: Statistics of TCP Cubic

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

End at: 2017-09-21 12:14:39

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 12:24:52

End at: 2017-09-21 12:25:22

Below is generated by plot.py at 2017-09-21 13:42:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.68 Mbit/s

95th percentile per-packet one-way delay: 92.342 ms

Loss rate: 0.02%

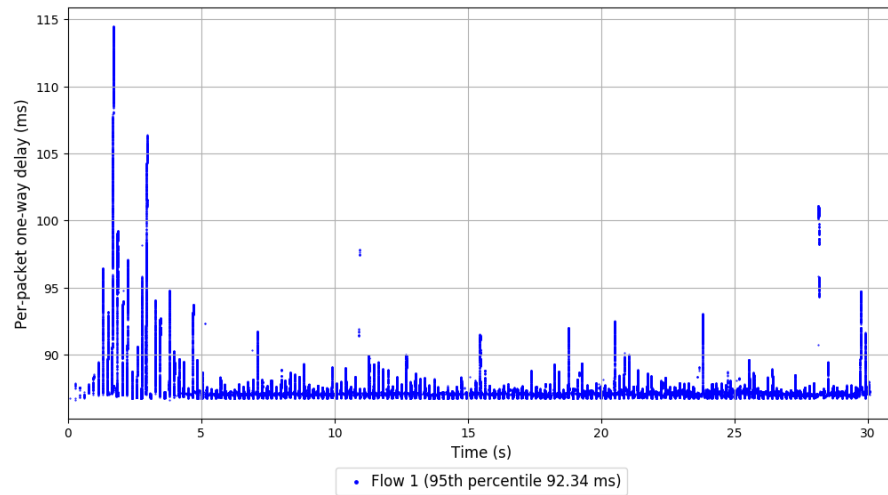
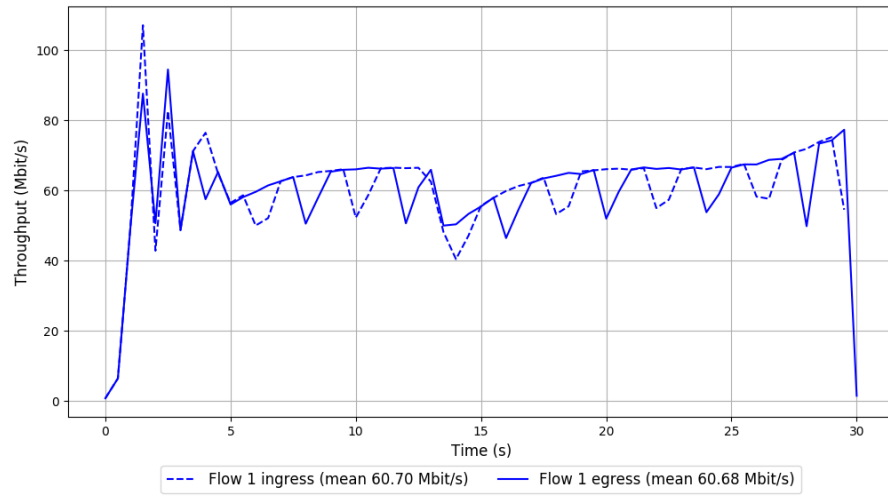
-- Flow 1:

Average throughput: 60.68 Mbit/s

95th percentile per-packet one-way delay: 92.342 ms

Loss rate: 0.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 12:36:01

End at: 2017-09-21 12:36:31

Below is generated by plot.py at 2017-09-21 13:42:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.77 Mbit/s

95th percentile per-packet one-way delay: 90.981 ms

Loss rate: 0.05%

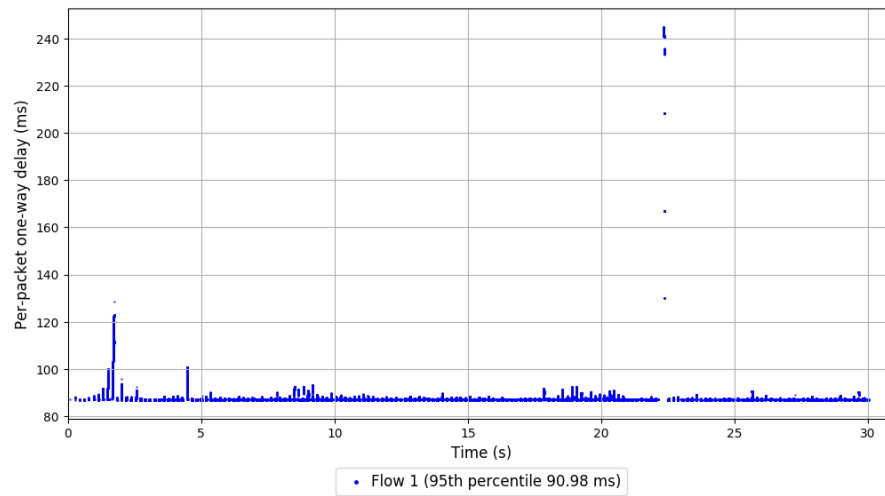
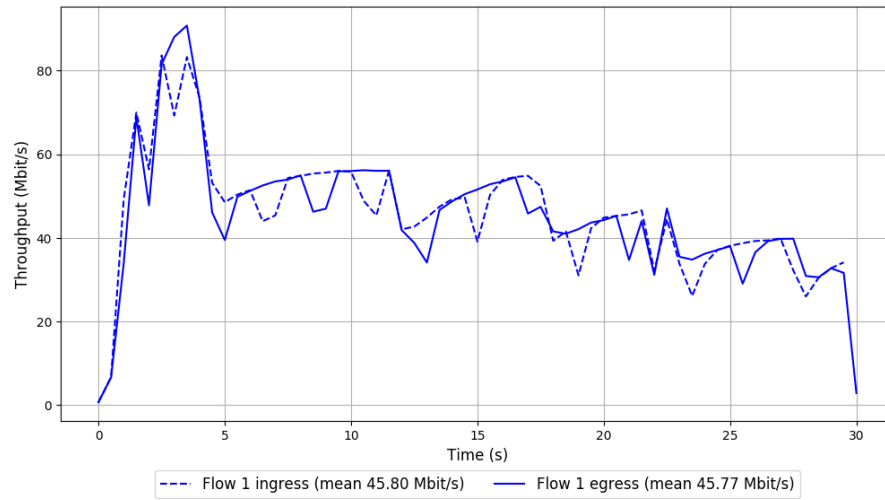
-- Flow 1:

Average throughput: 45.77 Mbit/s

95th percentile per-packet one-way delay: 90.981 ms

Loss rate: 0.05%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 12:46:55

End at: 2017-09-21 12:47:25

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.92 Mbit/s

95th percentile per-packet one-way delay: 88.549 ms

Loss rate: 0.00%

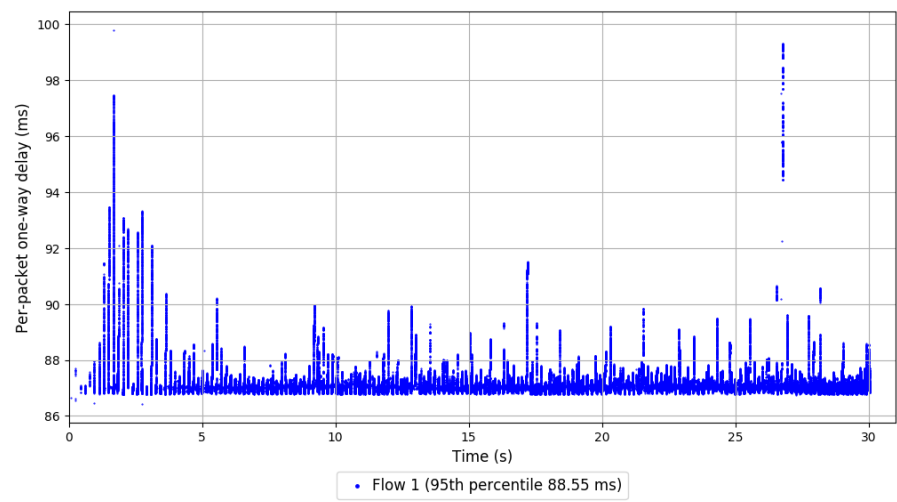
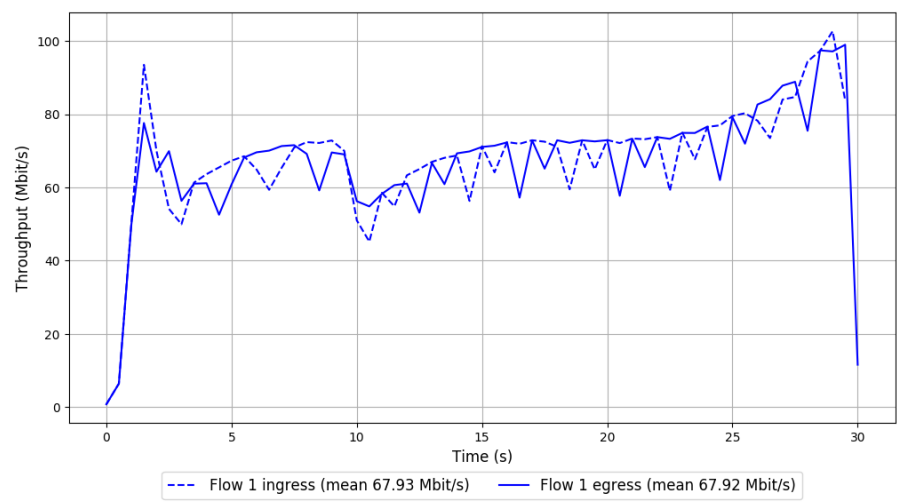
-- Flow 1:

Average throughput: 67.92 Mbit/s

95th percentile per-packet one-way delay: 88.549 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

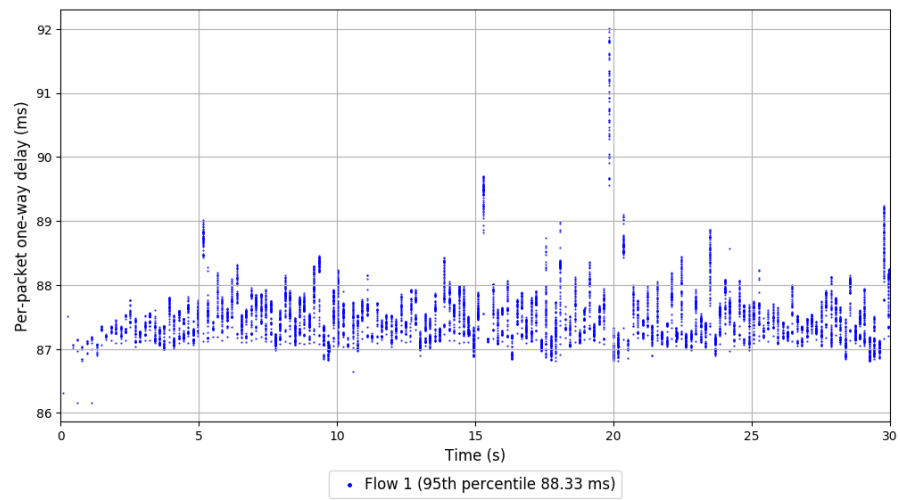
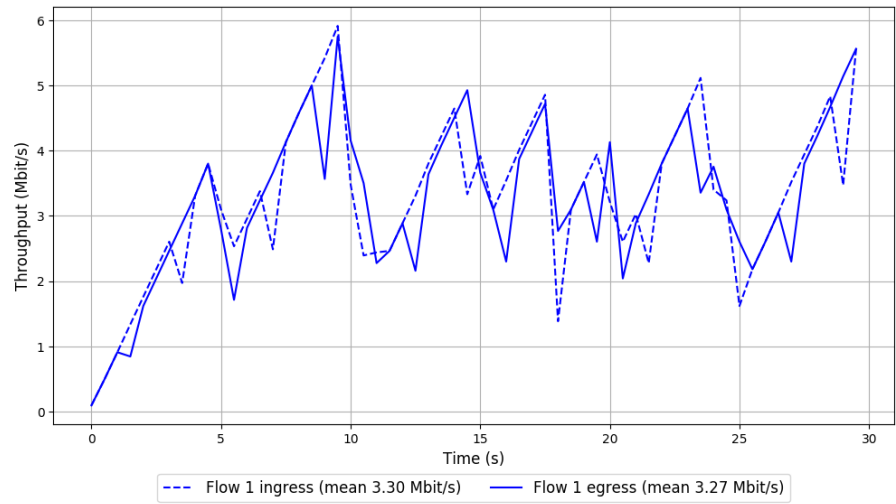


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 11:15:43
End at: 2017-09-21 11:16:13

# Below is generated by plot.py at 2017-09-21 13:43:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 88.335 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 88.335 ms
Loss rate: 0.92%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-09-21 11:26:26

End at: 2017-09-21 11:26:57

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 87.689 ms

Loss rate: 0.30%

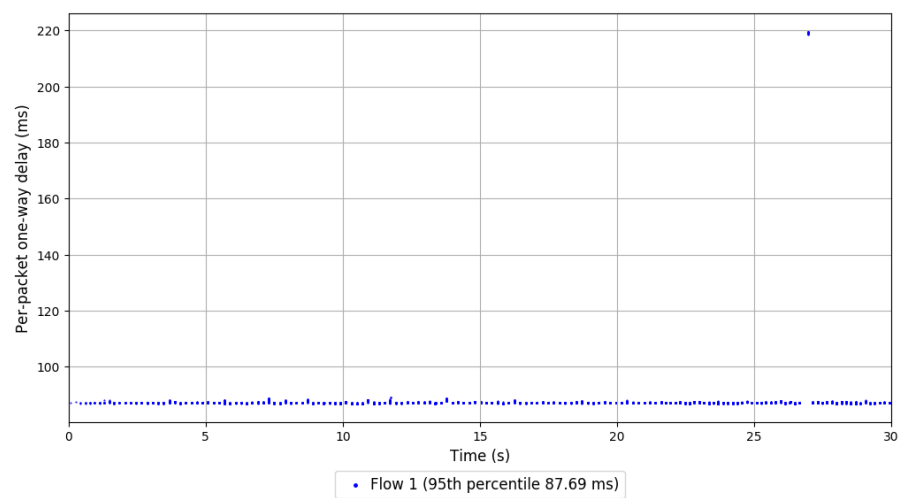
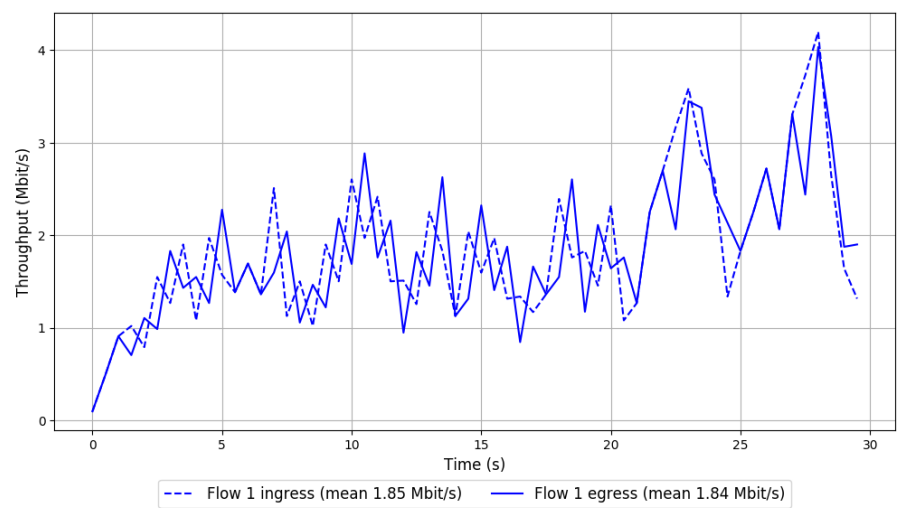
-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 87.689 ms

Loss rate: 0.30%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-21 11:37:16

End at: 2017-09-21 11:37:46

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 88.428 ms

Loss rate: 0.00%

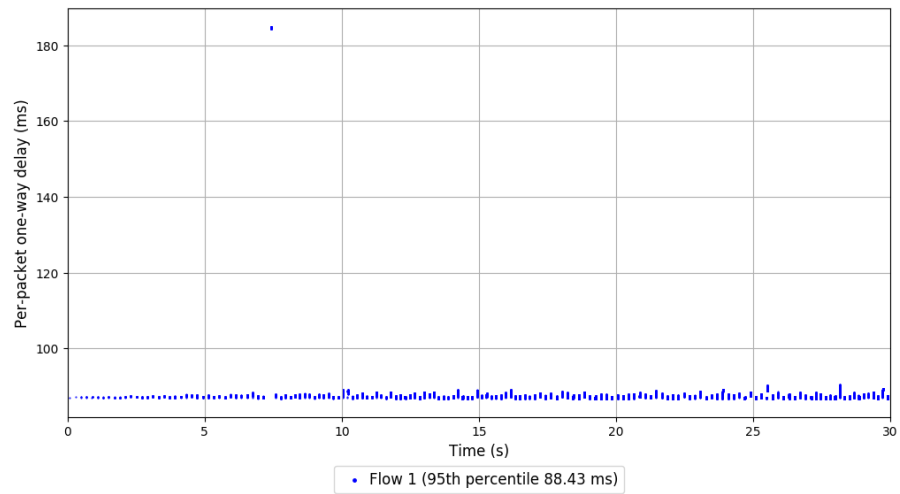
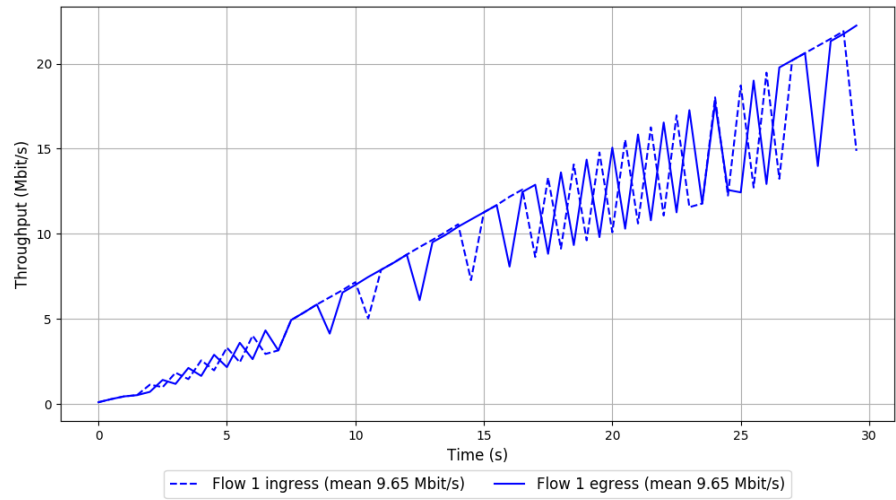
-- Flow 1:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 88.428 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

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

End at: 2017-09-21 11:48:33

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 87.833 ms

Loss rate: 1.24%

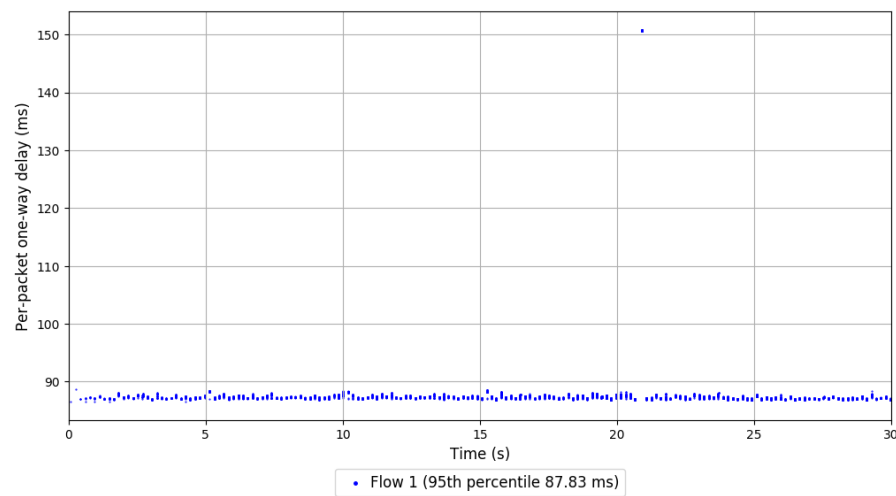
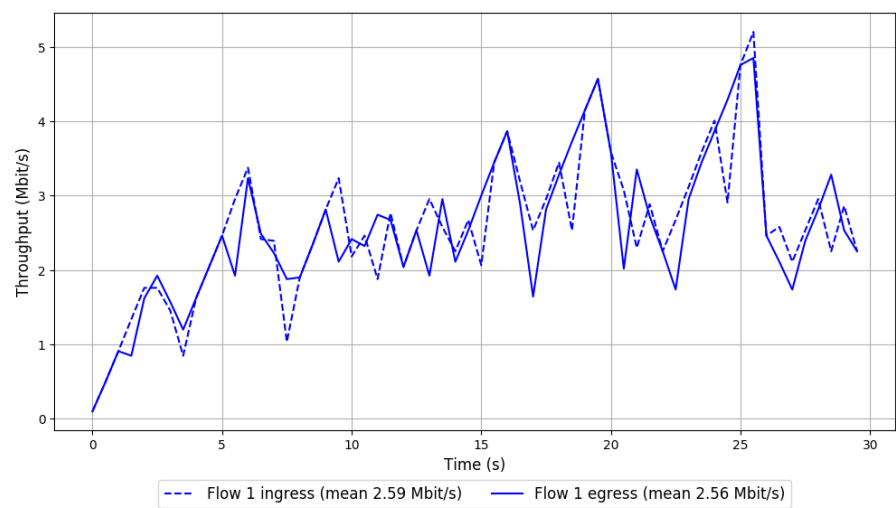
-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 87.833 ms

Loss rate: 1.24%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 11:58:51

End at: 2017-09-21 11:59:21

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 87.833 ms

Loss rate: 1.37%

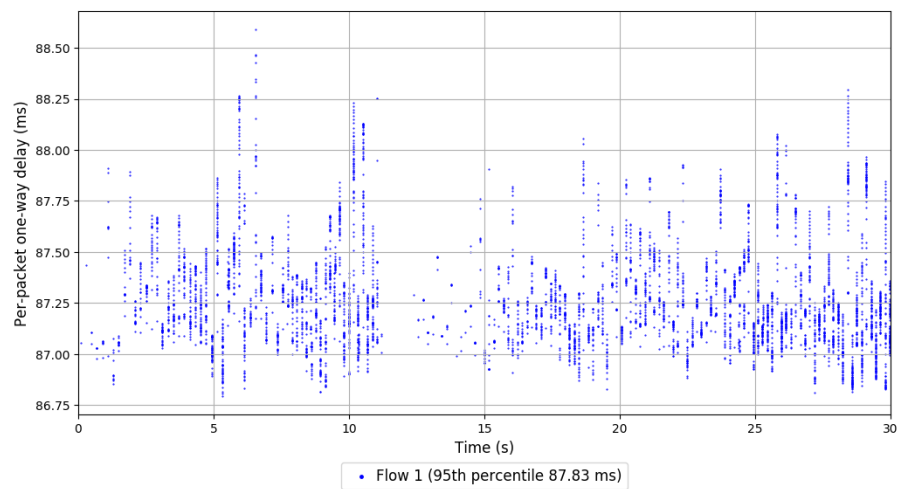
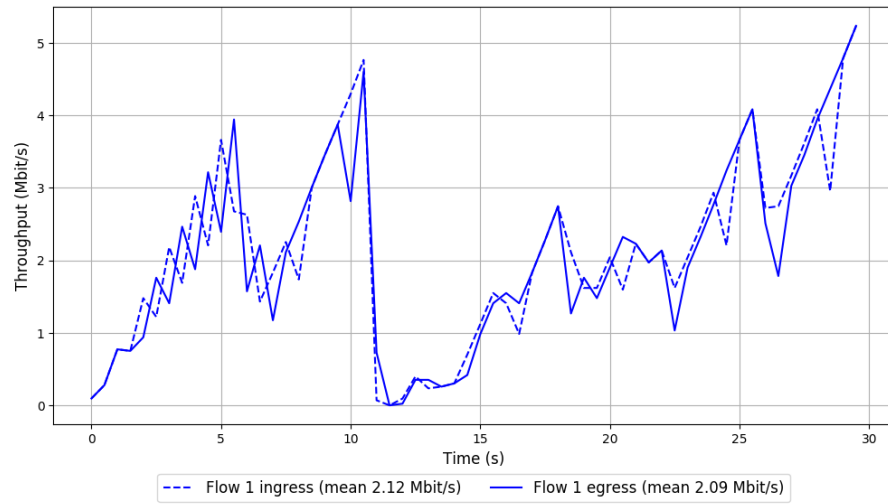
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 87.833 ms

Loss rate: 1.37%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-21 12:09:46

End at: 2017-09-21 12:10:16

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 88.040 ms

Loss rate: 1.12%

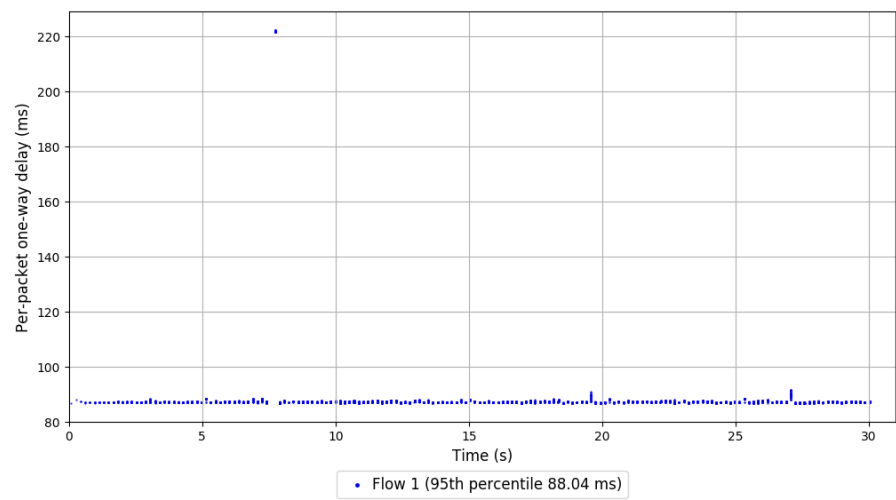
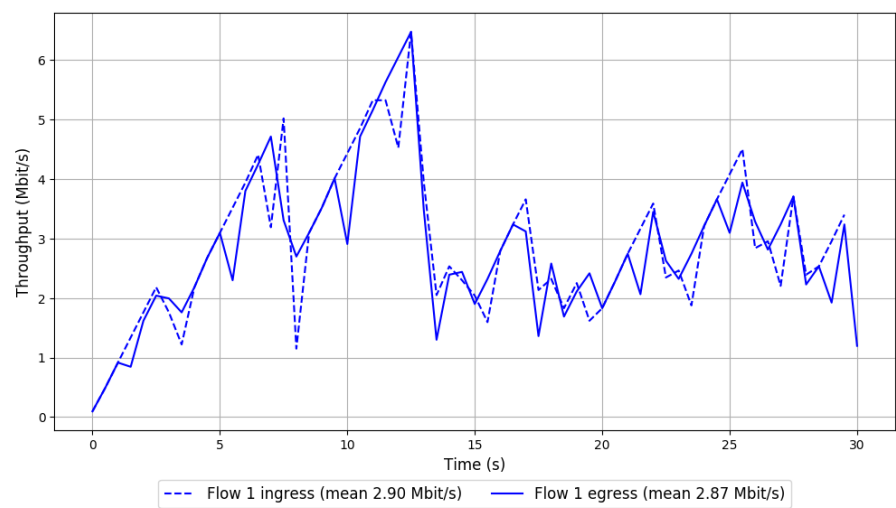
-- Flow 1:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 88.040 ms

Loss rate: 1.12%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-21 12:20:21

End at: 2017-09-21 12:20:51

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 88.112 ms

Loss rate: 1.01%

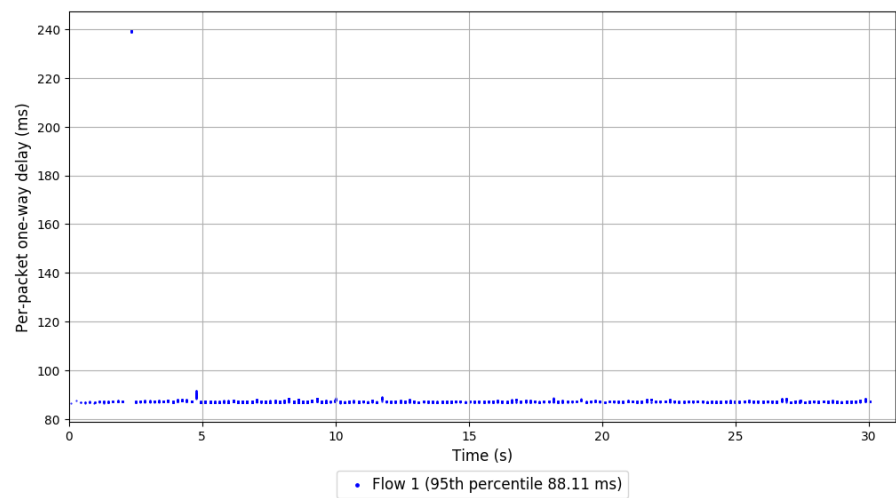
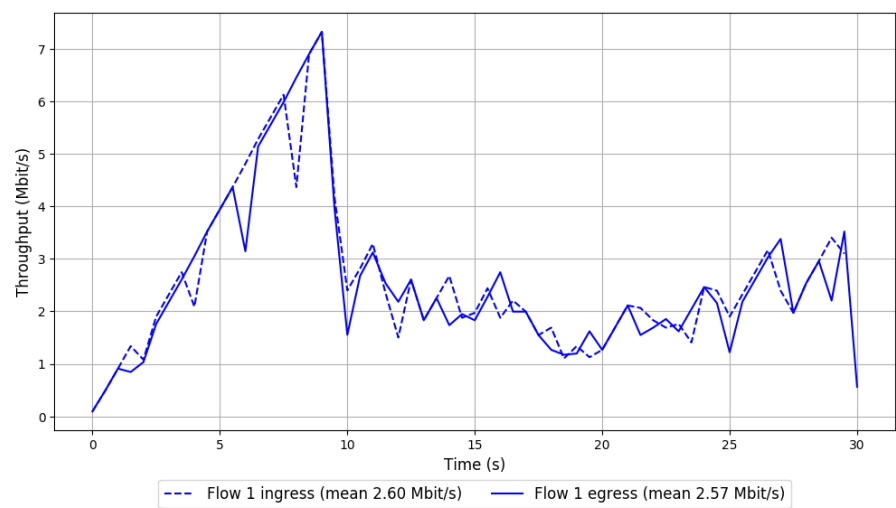
-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 88.112 ms

Loss rate: 1.01%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-21 12:31:22

End at: 2017-09-21 12:31:52

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 88.321 ms

Loss rate: 0.60%

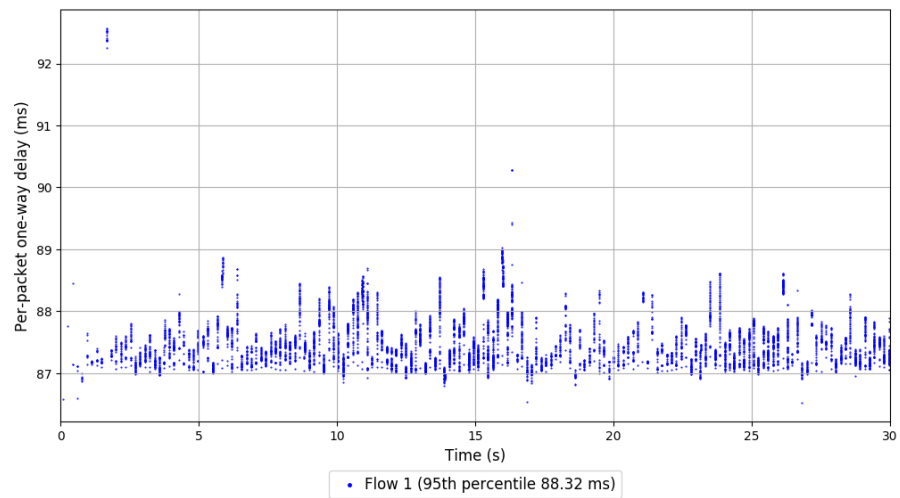
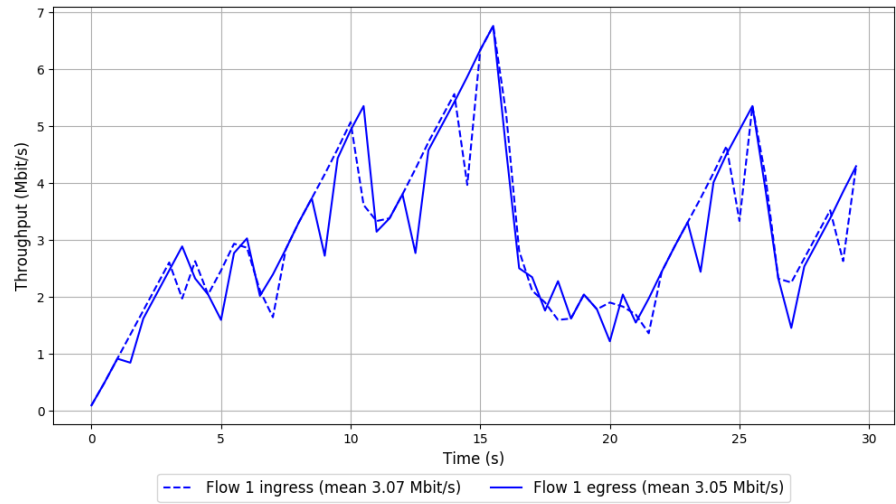
-- Flow 1:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 88.321 ms

Loss rate: 0.60%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-21 12:42:24

End at: 2017-09-21 12:42:54

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 87.665 ms

Loss rate: 0.68%

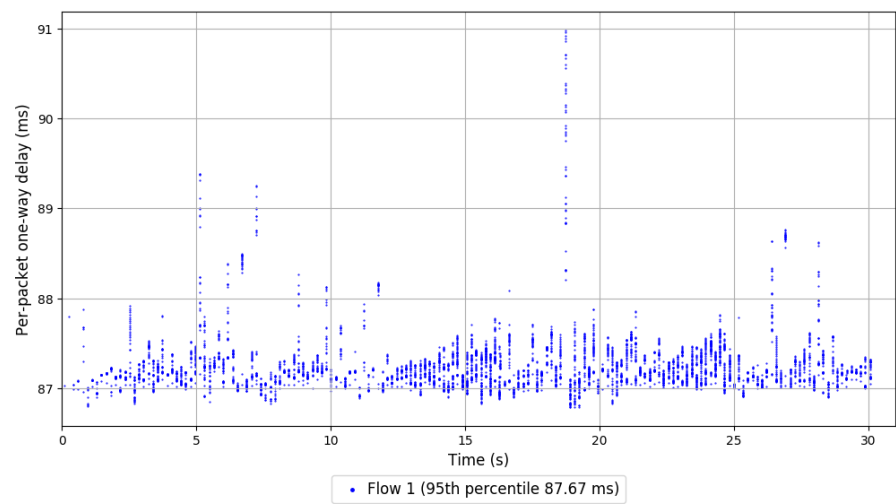
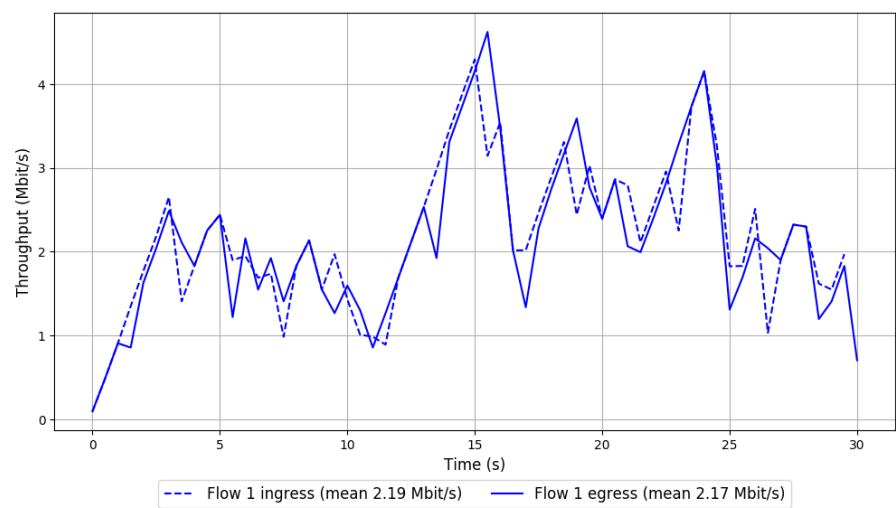
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 87.665 ms

Loss rate: 0.68%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-21 12:53:19

End at: 2017-09-21 12:53:49

Below is generated by plot.py at 2017-09-21 13:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 88.160 ms

Loss rate: 0.95%

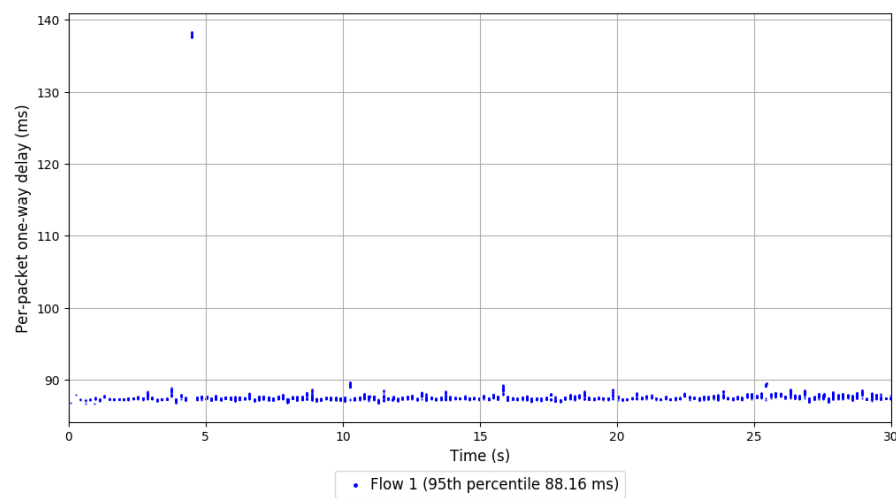
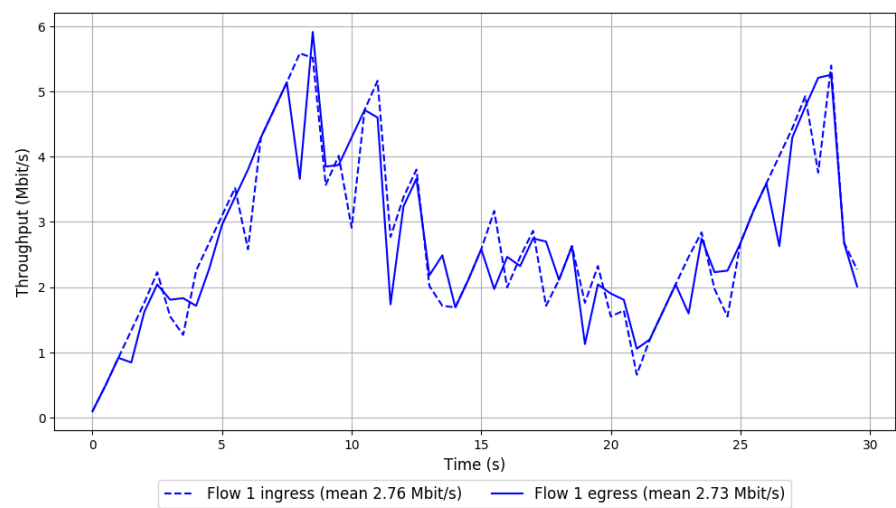
-- Flow 1:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 88.160 ms

Loss rate: 0.95%

Run 10: Report of LEDBAT — Data Link

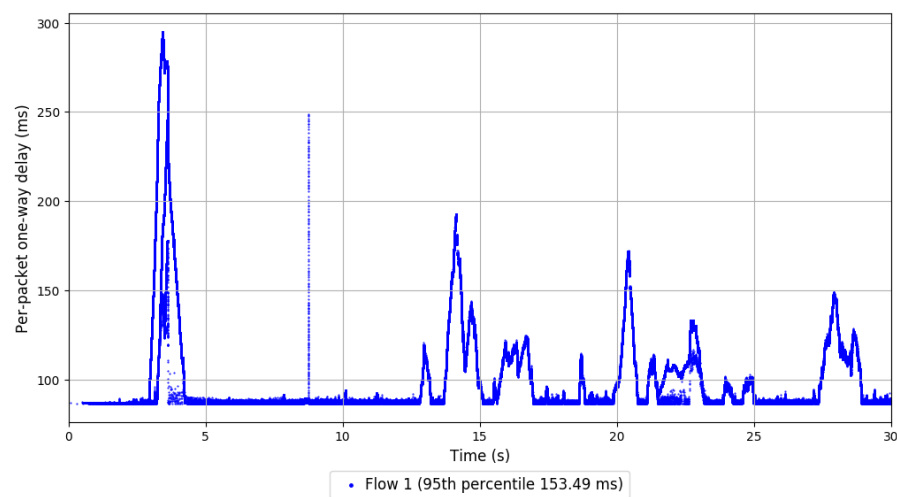
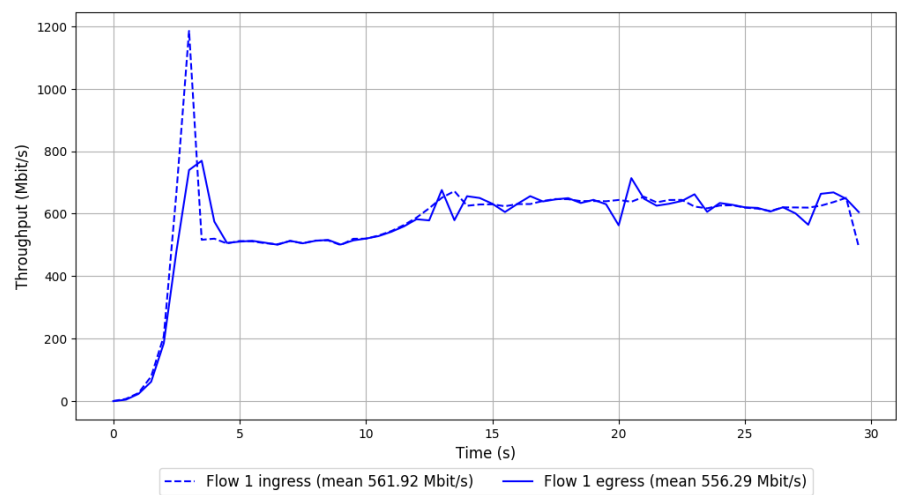


```
Run 1: Statistics of PCC

Start at: 2017-09-21 11:11:15
End at: 2017-09-21 11:11:45

# Below is generated by plot.py at 2017-09-21 13:53:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 556.29 Mbit/s
95th percentile per-packet one-way delay: 153.493 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 556.29 Mbit/s
95th percentile per-packet one-way delay: 153.493 ms
Loss rate: 1.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

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

End at: 2017-09-21 11:22:18

Below is generated by plot.py at 2017-09-21 13:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.74 Mbit/s

95th percentile per-packet one-way delay: 170.820 ms

Loss rate: 1.10%

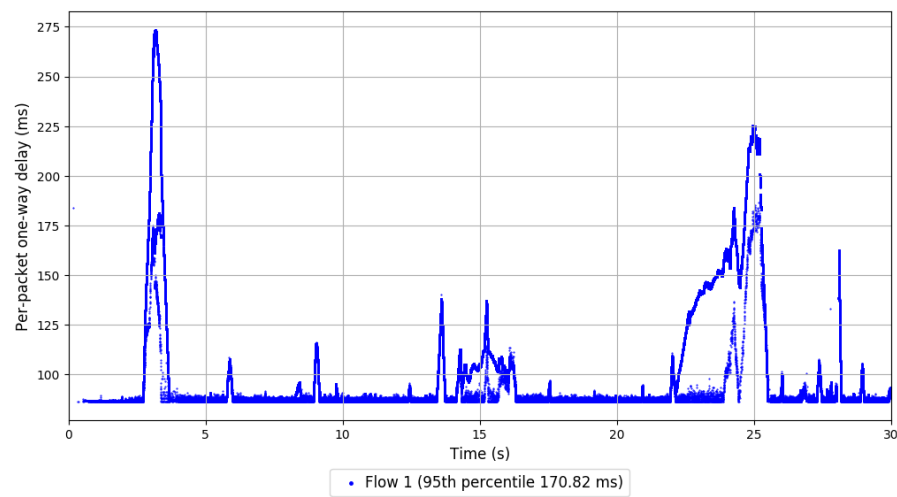
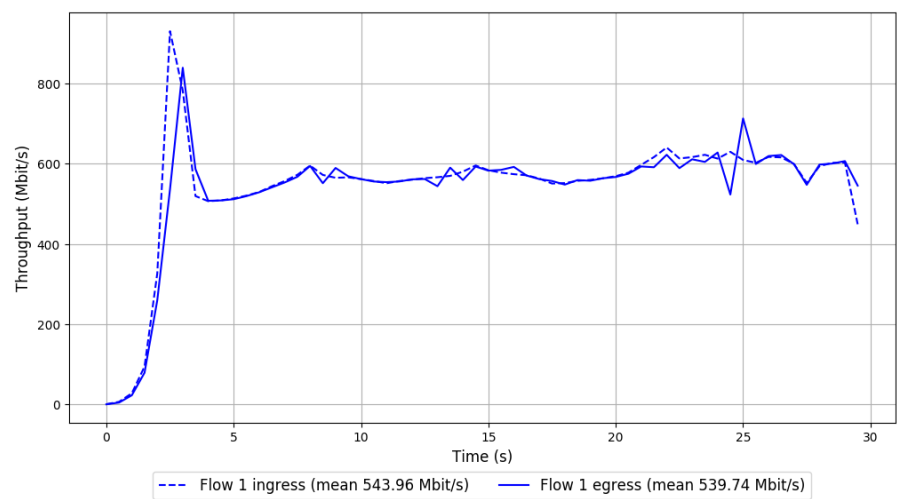
-- Flow 1:

Average throughput: 539.74 Mbit/s

95th percentile per-packet one-way delay: 170.820 ms

Loss rate: 1.10%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-21 11:32:37

End at: 2017-09-21 11:33:07

Below is generated by plot.py at 2017-09-21 13:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.54 Mbit/s

95th percentile per-packet one-way delay: 264.502 ms

Loss rate: 3.94%

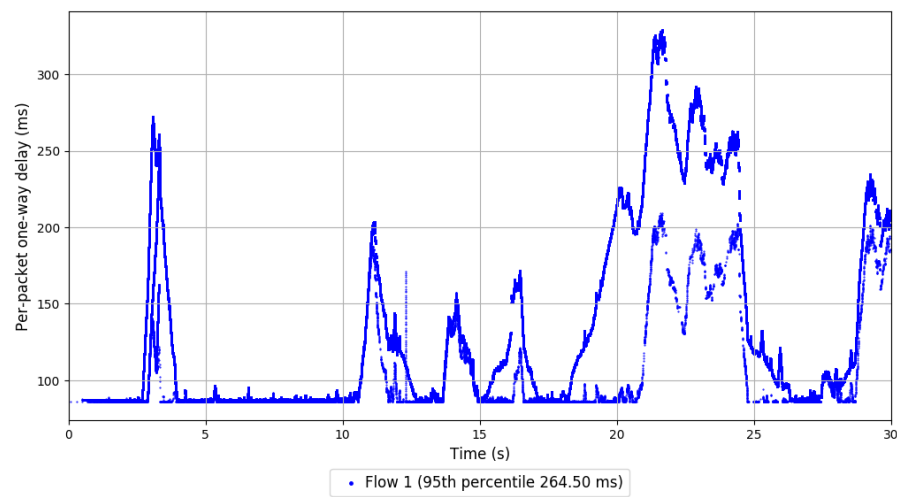
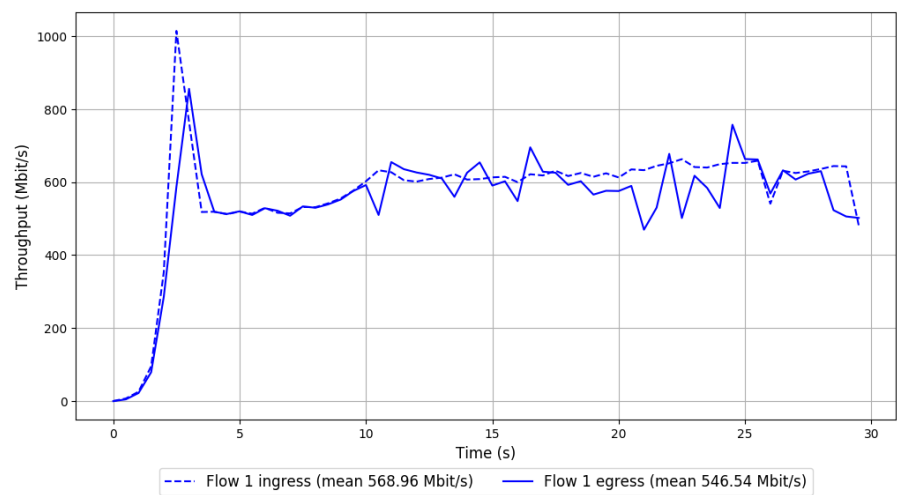
-- Flow 1:

Average throughput: 546.54 Mbit/s

95th percentile per-packet one-way delay: 264.502 ms

Loss rate: 3.94%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-21 11:43:27

End at: 2017-09-21 11:43:57

Below is generated by plot.py at 2017-09-21 13:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.71 Mbit/s

95th percentile per-packet one-way delay: 148.666 ms

Loss rate: 0.48%

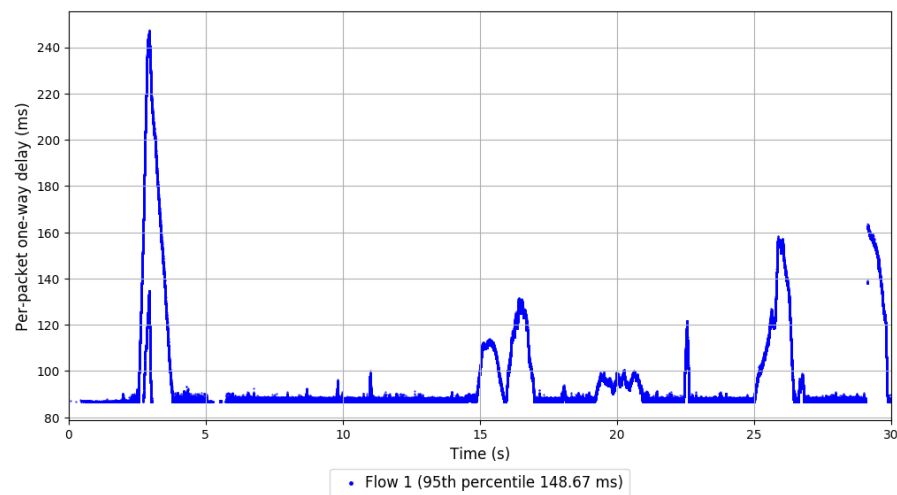
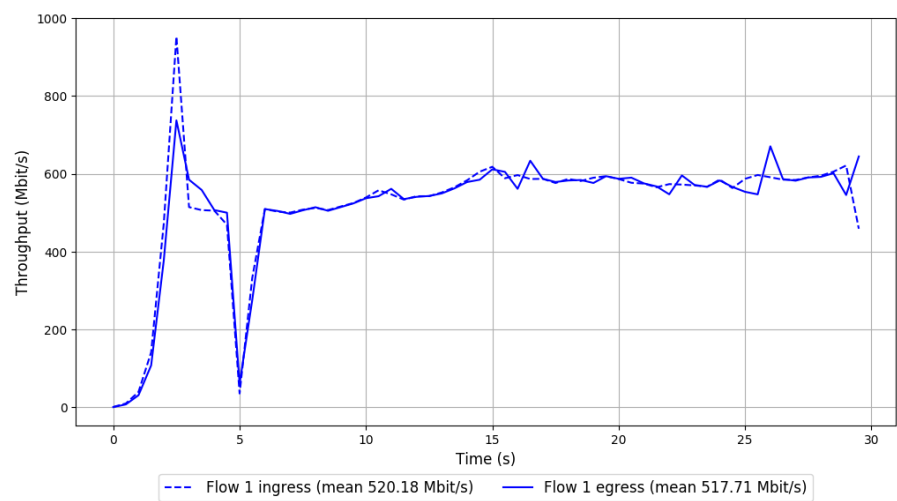
-- Flow 1:

Average throughput: 517.71 Mbit/s

95th percentile per-packet one-way delay: 148.666 ms

Loss rate: 0.48%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-21 11:54:16

End at: 2017-09-21 11:54:46

Below is generated by plot.py at 2017-09-21 13:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.96 Mbit/s

95th percentile per-packet one-way delay: 179.949 ms

Loss rate: 0.97%

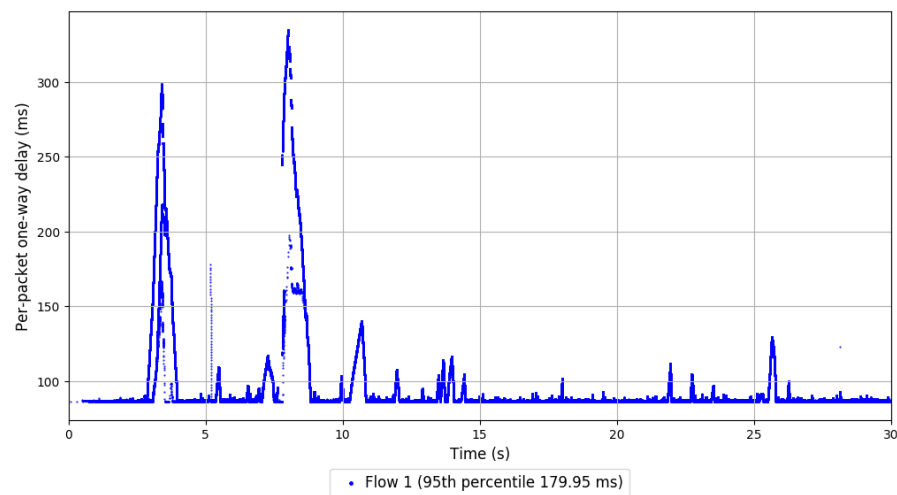
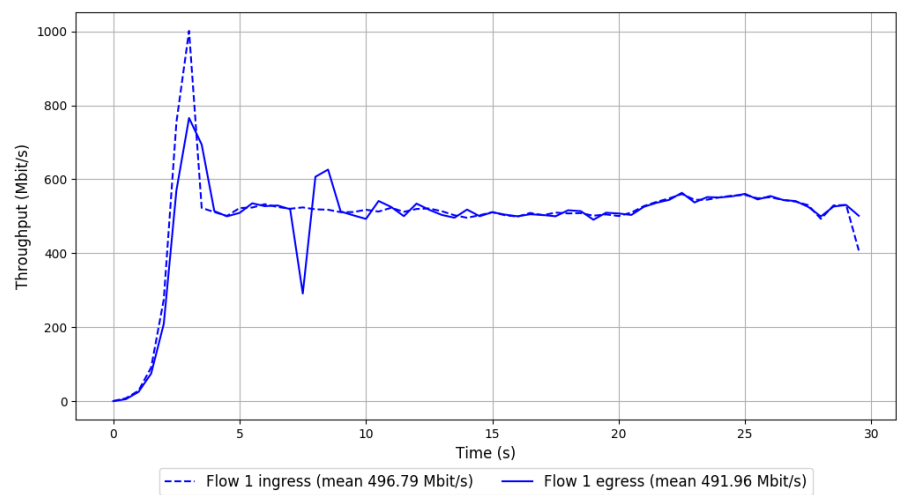
-- Flow 1:

Average throughput: 491.96 Mbit/s

95th percentile per-packet one-way delay: 179.949 ms

Loss rate: 0.97%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-21 12:05:08

End at: 2017-09-21 12:05:38

Below is generated by plot.py at 2017-09-21 13:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.92 Mbit/s

95th percentile per-packet one-way delay: 179.037 ms

Loss rate: 0.51%

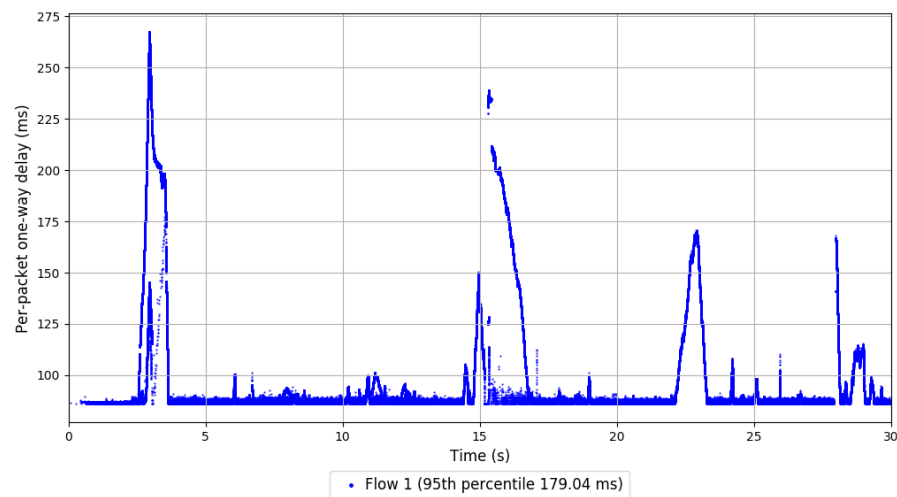
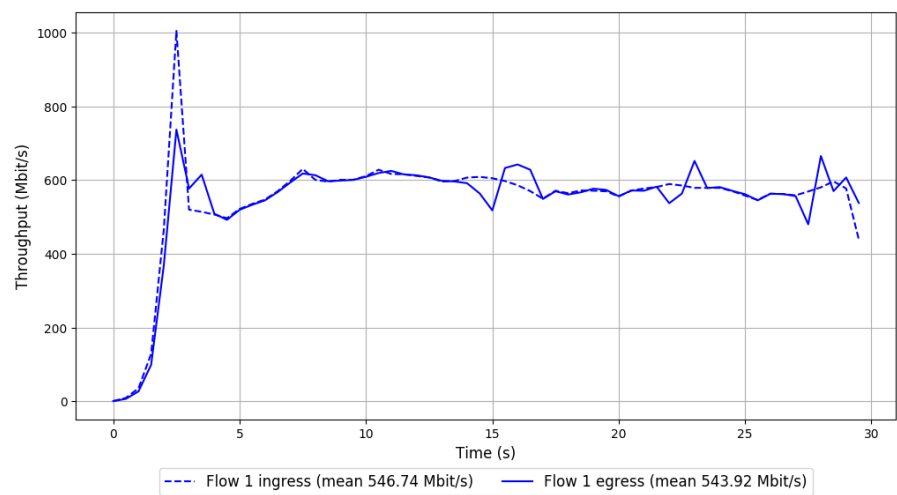
-- Flow 1:

Average throughput: 543.92 Mbit/s

95th percentile per-packet one-way delay: 179.037 ms

Loss rate: 0.51%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-21 12:15:41

End at: 2017-09-21 12:16:11

Below is generated by plot.py at 2017-09-21 13:53:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.40 Mbit/s

95th percentile per-packet one-way delay: 163.401 ms

Loss rate: 1.11%

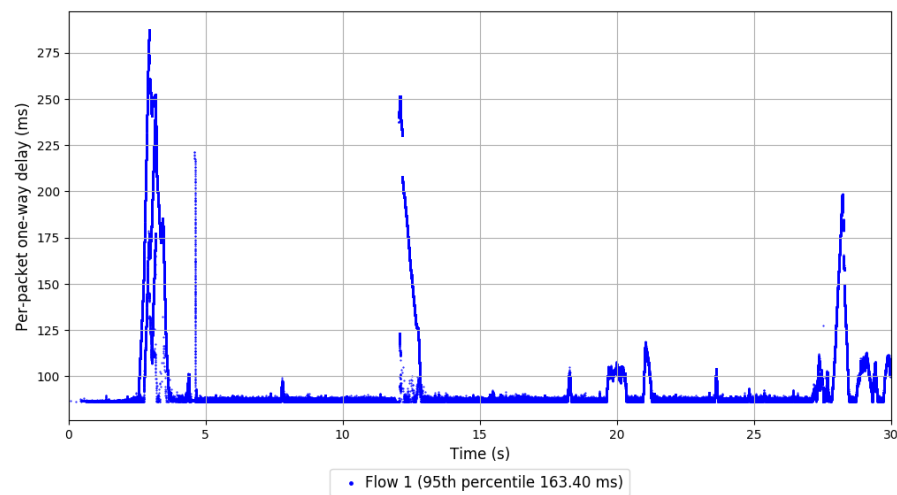
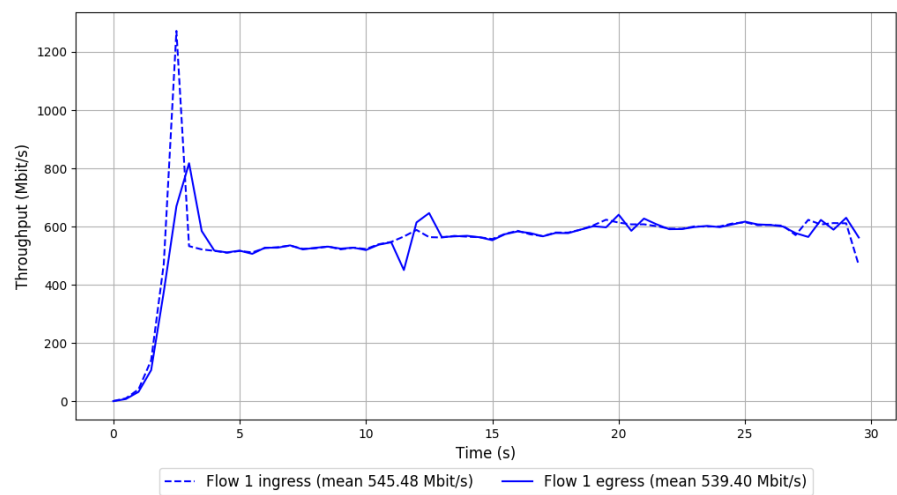
-- Flow 1:

Average throughput: 539.40 Mbit/s

95th percentile per-packet one-way delay: 163.401 ms

Loss rate: 1.11%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-21 12:26:36

End at: 2017-09-21 12:27:06

Below is generated by plot.py at 2017-09-21 13:54:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.20 Mbit/s

95th percentile per-packet one-way delay: 208.072 ms

Loss rate: 1.18%

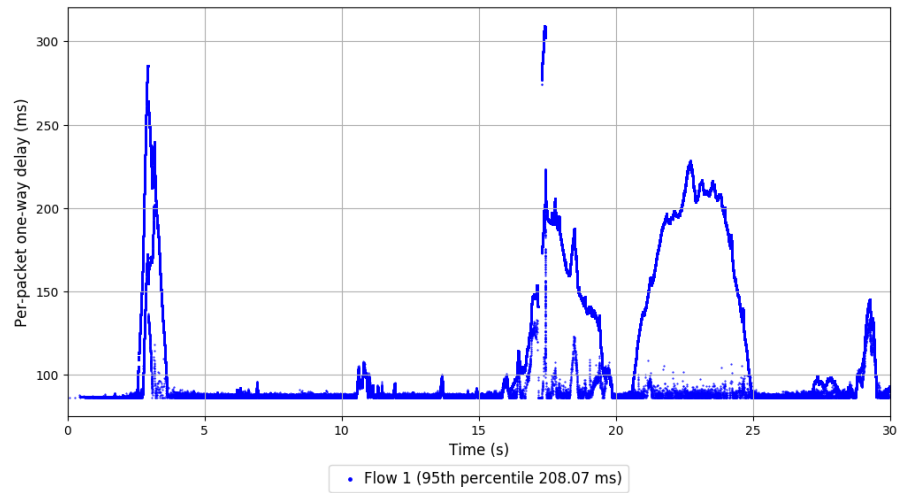
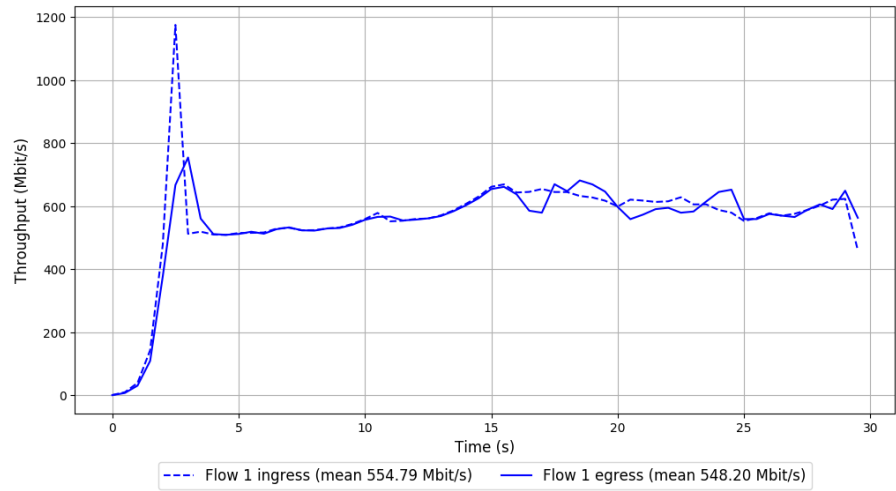
-- Flow 1:

Average throughput: 548.20 Mbit/s

95th percentile per-packet one-way delay: 208.072 ms

Loss rate: 1.18%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-21 12:37:43

End at: 2017-09-21 12:38:13

Below is generated by plot.py at 2017-09-21 14:03:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 559.78 Mbit/s

95th percentile per-packet one-way delay: 205.924 ms

Loss rate: 1.23%

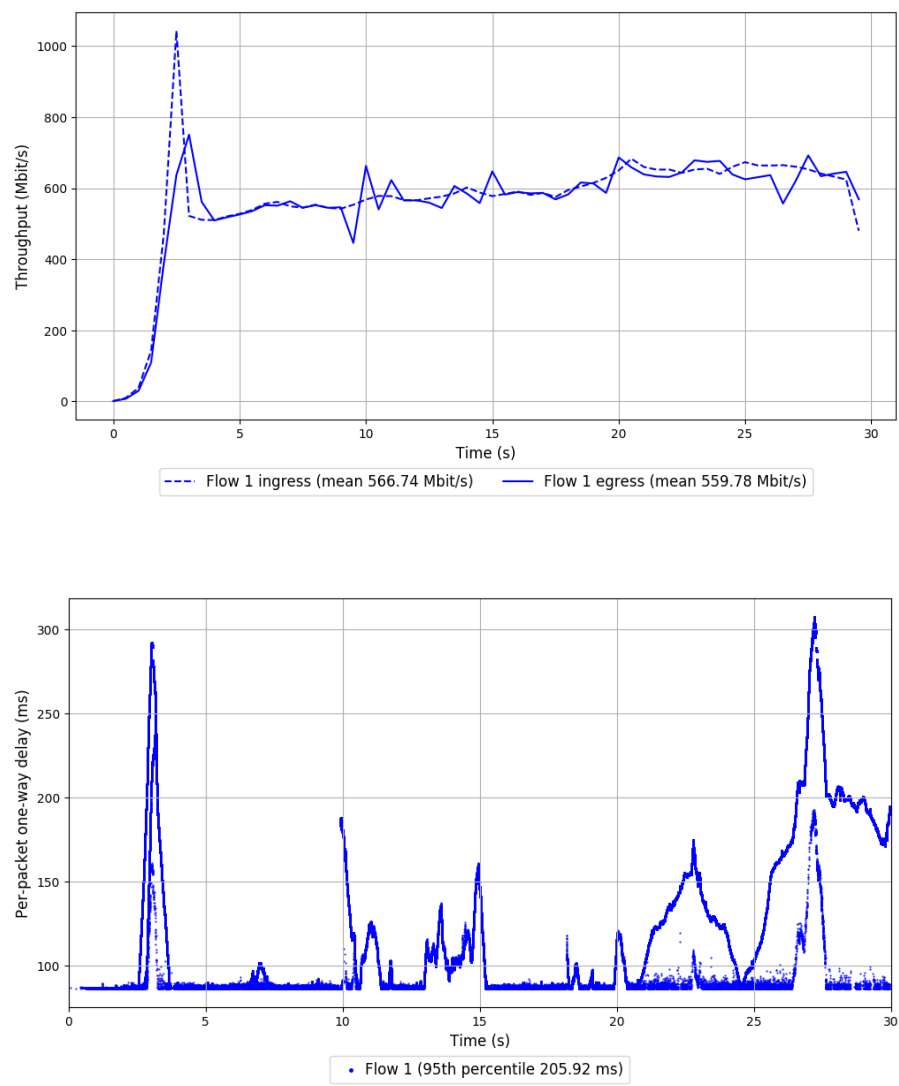
-- Flow 1:

Average throughput: 559.78 Mbit/s

95th percentile per-packet one-way delay: 205.924 ms

Loss rate: 1.23%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 12:48:40

End at: 2017-09-21 12:49:10

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.71 Mbit/s

95th percentile per-packet one-way delay: 178.345 ms

Loss rate: 0.55%

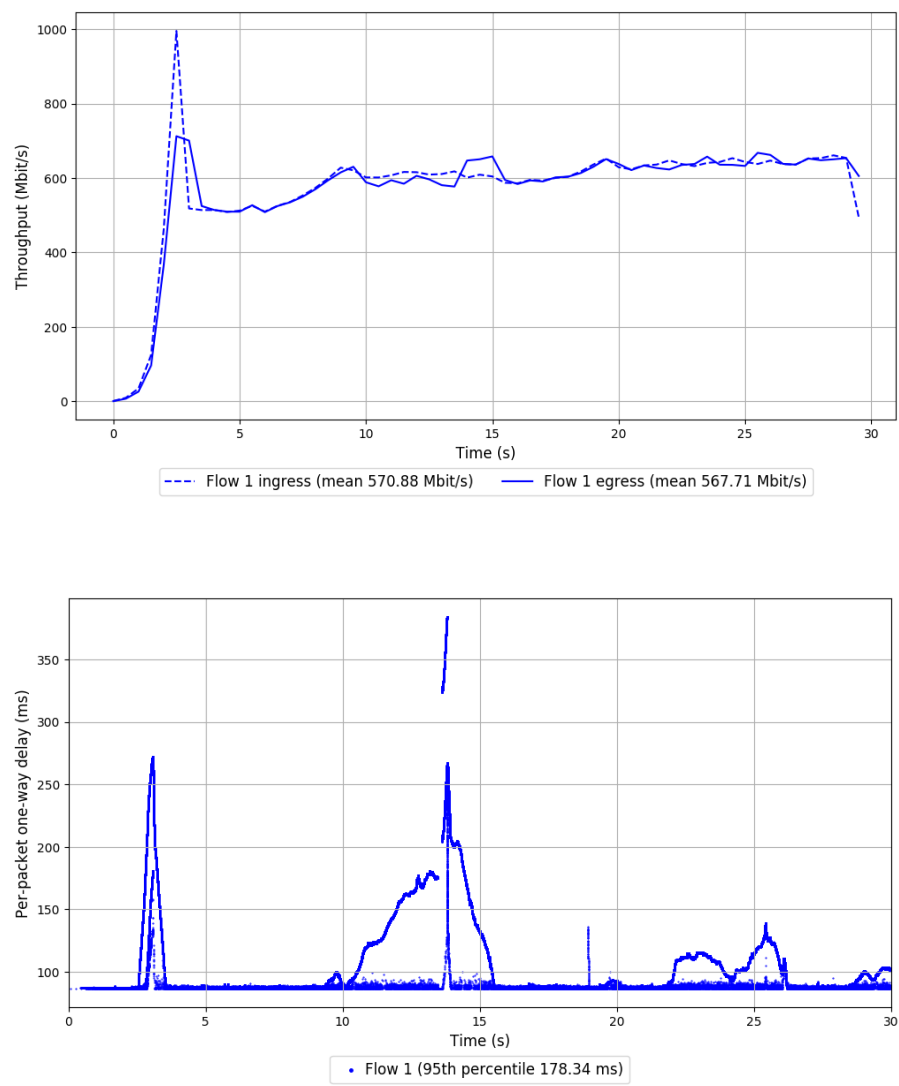
-- Flow 1:

Average throughput: 567.71 Mbit/s

95th percentile per-packet one-way delay: 178.345 ms

Loss rate: 0.55%

Run 10: Report of PCC — Data Link

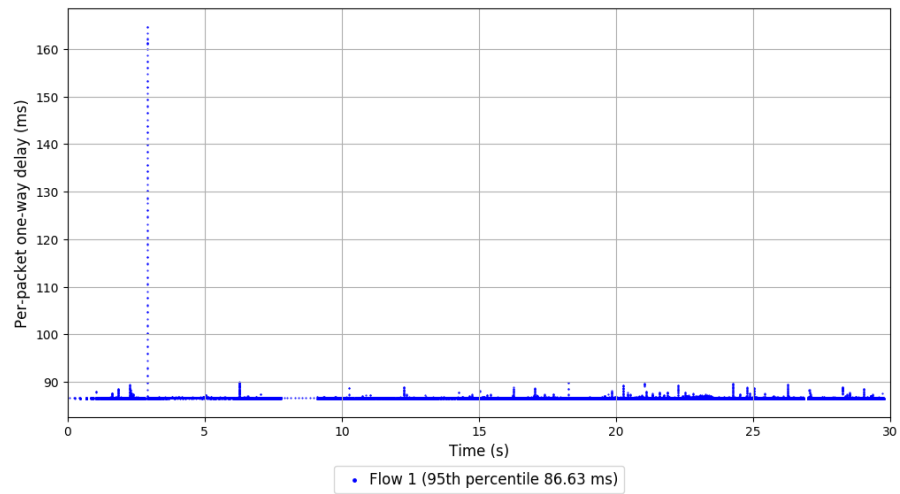
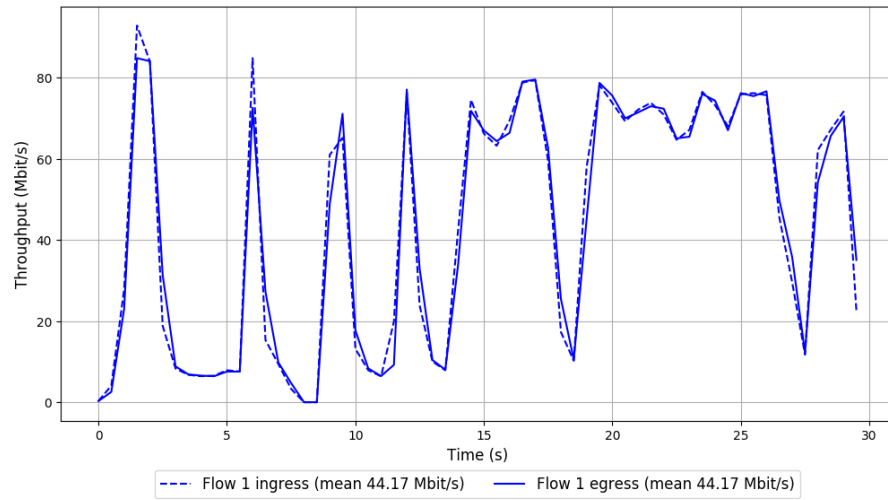


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-21 11:13:42
End at: 2017-09-21 11:14:12

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.17 Mbit/s
95th percentile per-packet one-way delay: 86.630 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.17 Mbit/s
95th percentile per-packet one-way delay: 86.630 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 11:24:25

End at: 2017-09-21 11:24:55

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 86.549 ms

Loss rate: 0.00%

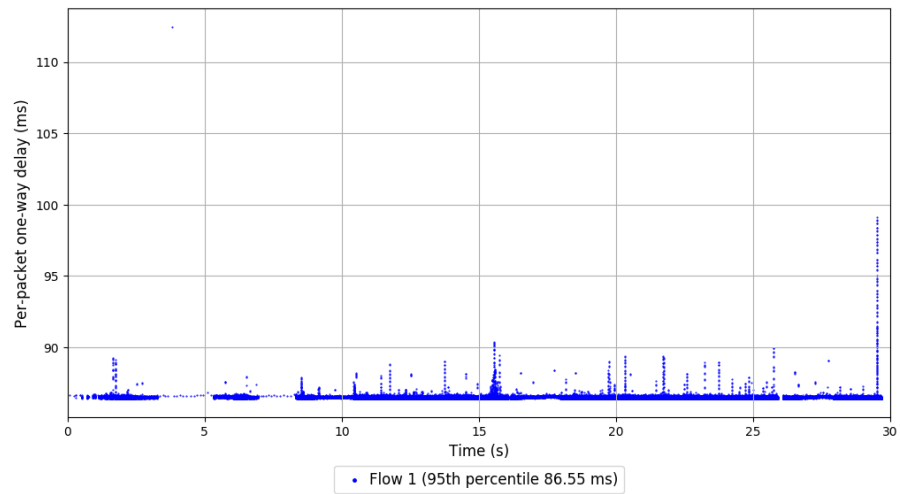
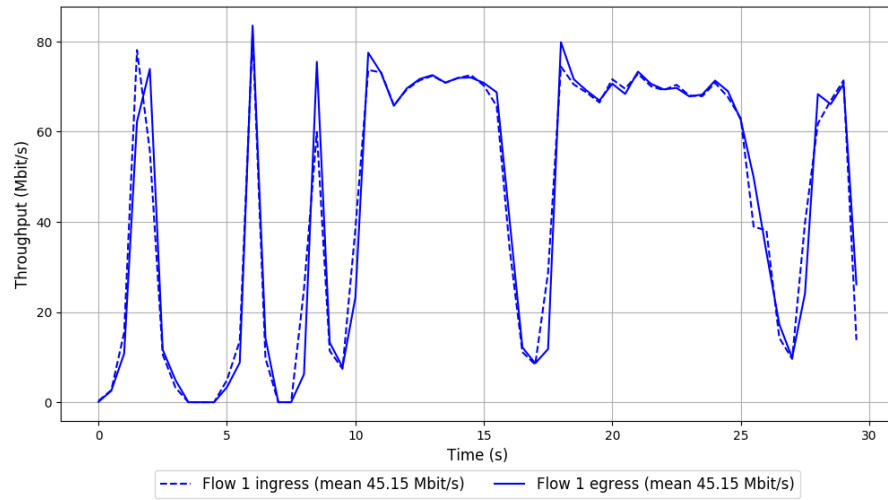
-- Flow 1:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 86.549 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-21 11:35:15

End at: 2017-09-21 11:35:45

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 86.187 ms

Loss rate: 0.00%

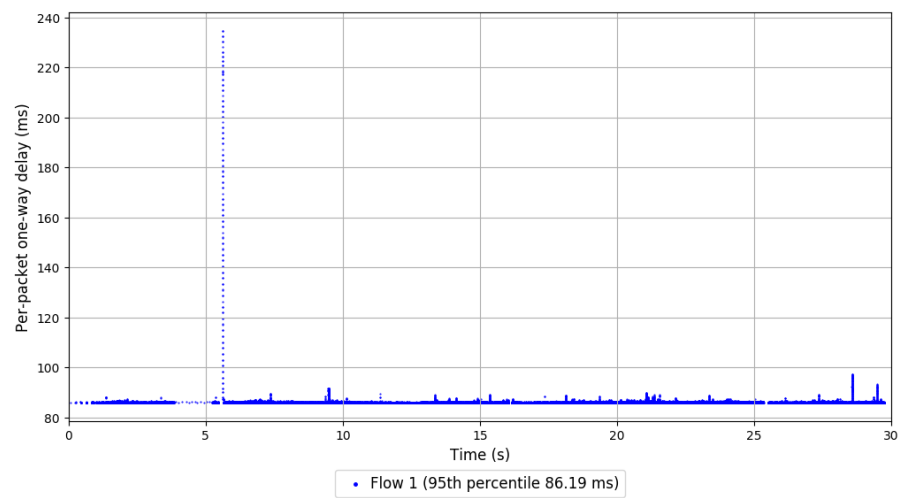
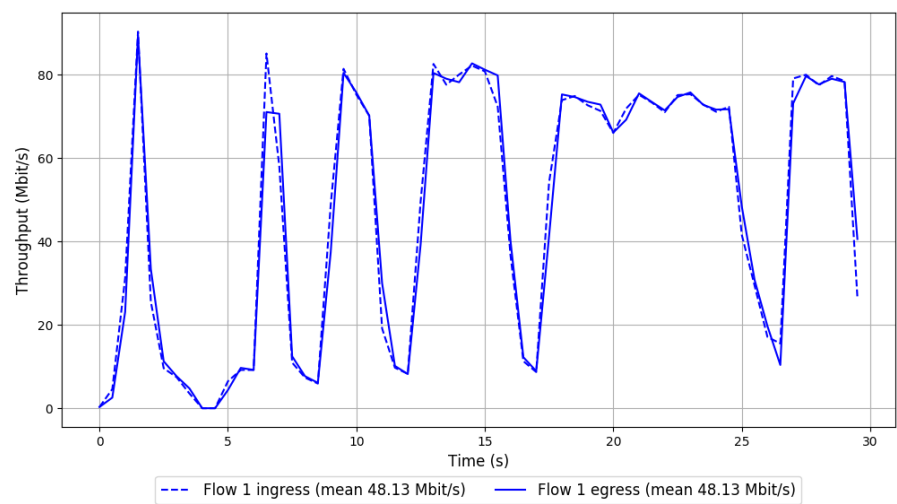
-- Flow 1:

Average throughput: 48.13 Mbit/s

95th percentile per-packet one-way delay: 86.187 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 11:46:02

End at: 2017-09-21 11:46:32

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.20 Mbit/s

95th percentile per-packet one-way delay: 86.498 ms

Loss rate: 0.00%

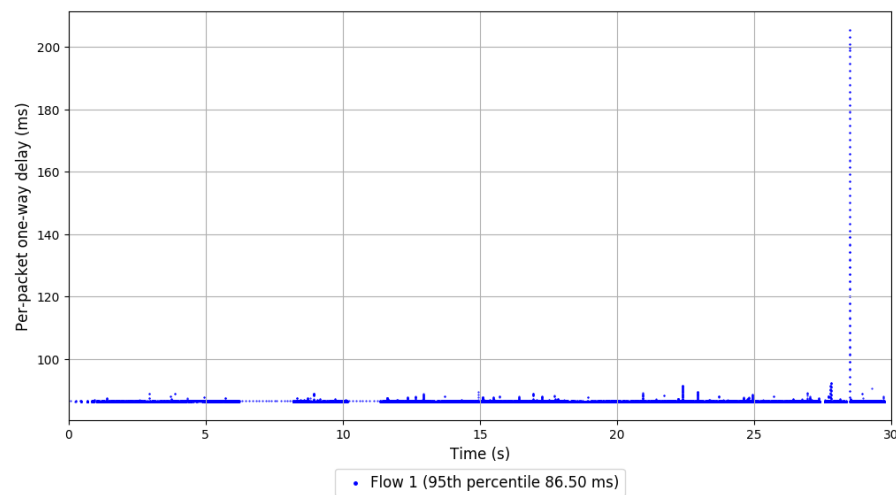
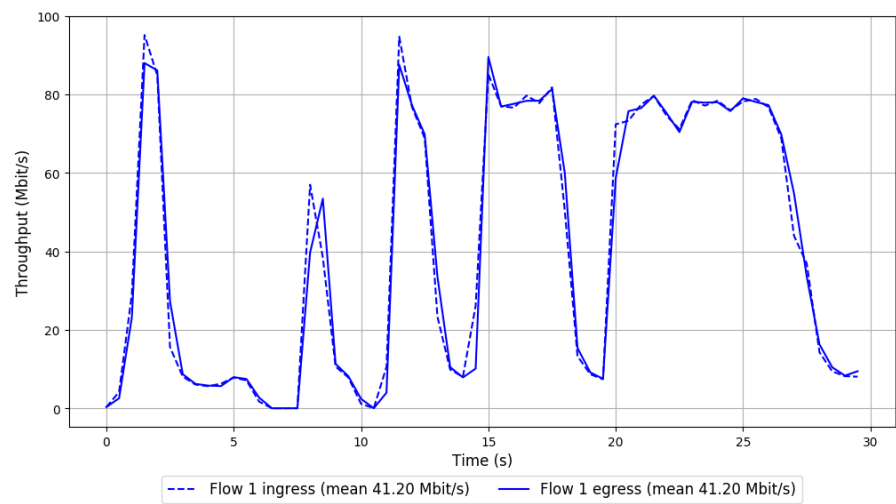
-- Flow 1:

Average throughput: 41.20 Mbit/s

95th percentile per-packet one-way delay: 86.498 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 11:56:50

End at: 2017-09-21 11:57:20

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 86.071 ms

Loss rate: 0.00%

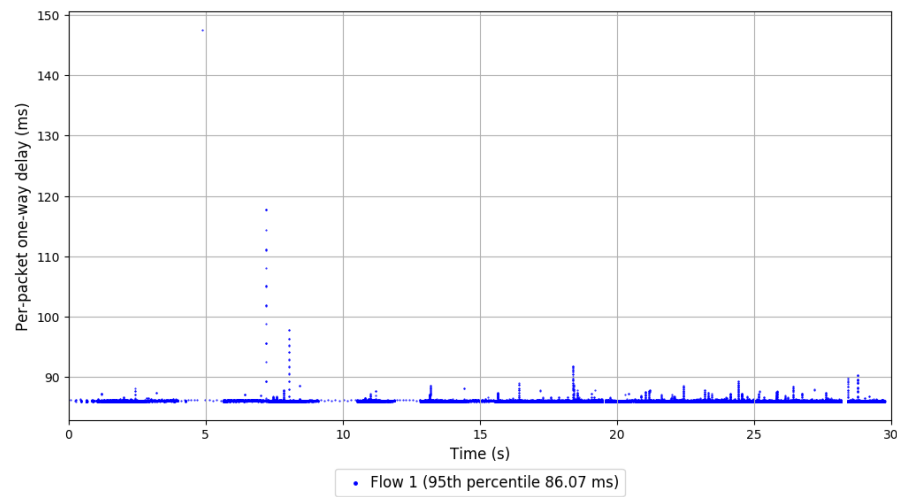
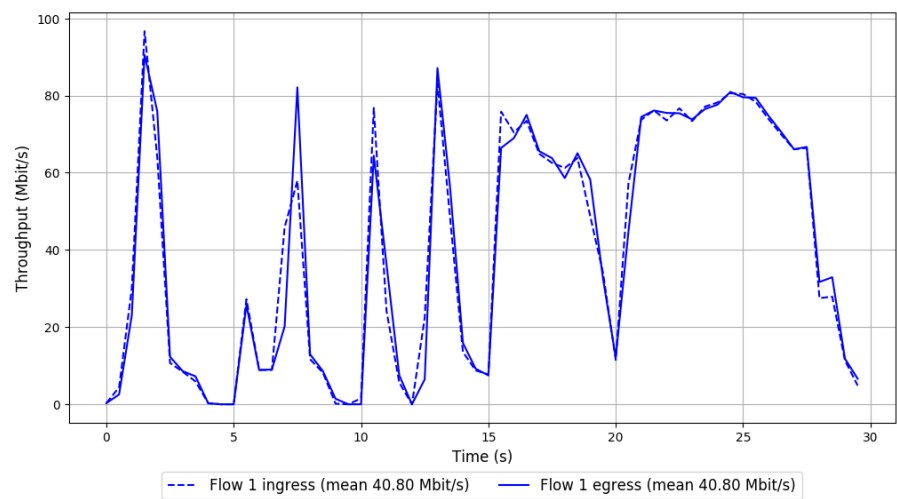
-- Flow 1:

Average throughput: 40.80 Mbit/s

95th percentile per-packet one-way delay: 86.071 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 12:07:45

End at: 2017-09-21 12:08:15

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.75 Mbit/s

95th percentile per-packet one-way delay: 86.912 ms

Loss rate: 0.00%

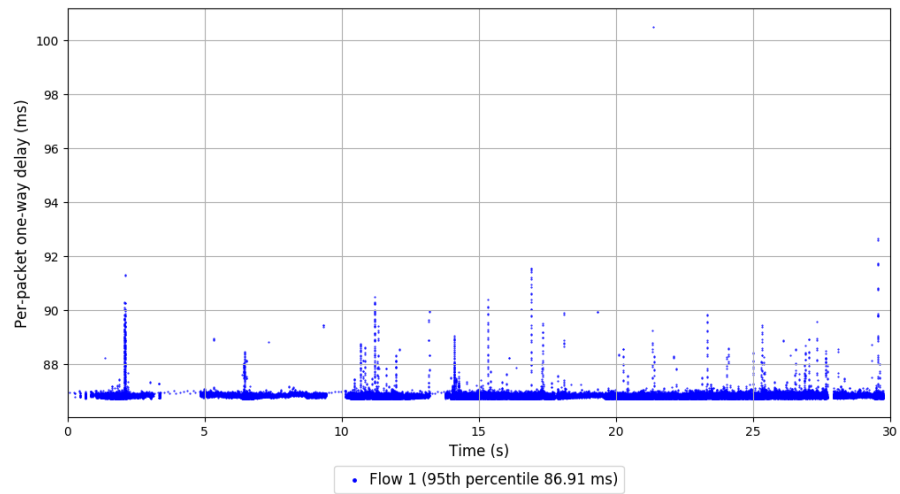
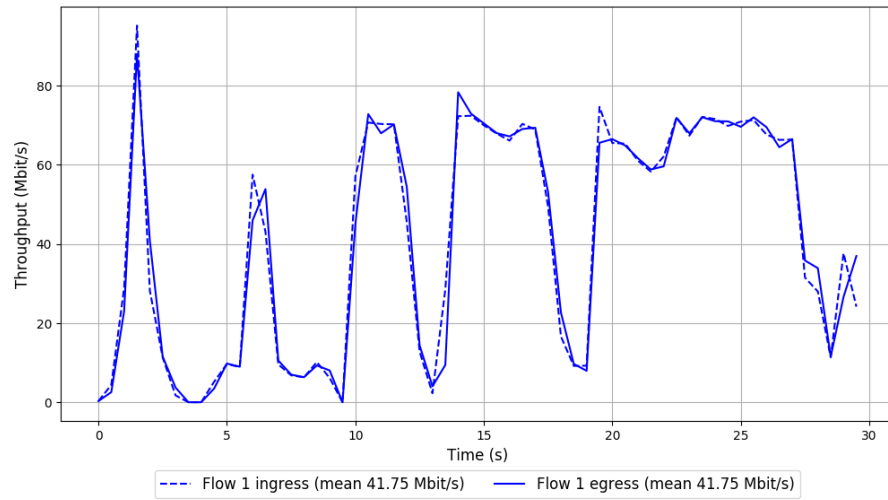
-- Flow 1:

Average throughput: 41.75 Mbit/s

95th percentile per-packet one-way delay: 86.912 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 12:18:19

End at: 2017-09-21 12:18:49

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 86.596 ms

Loss rate: 0.00%

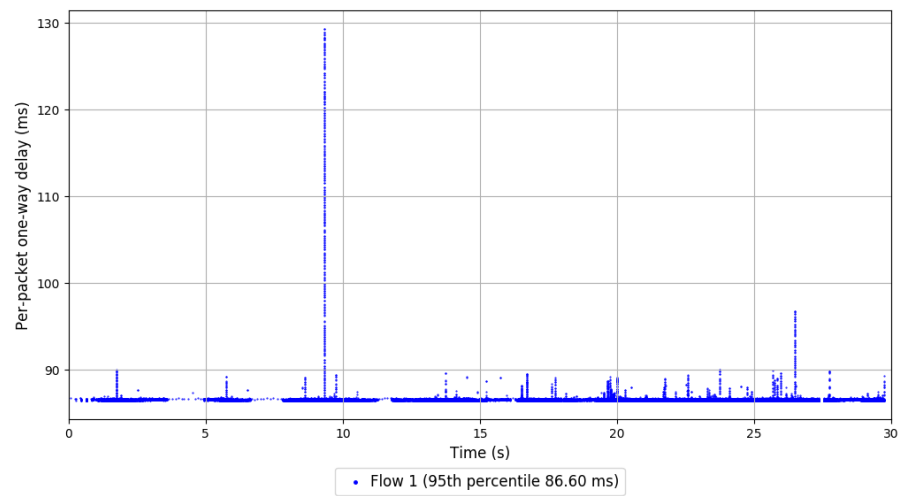
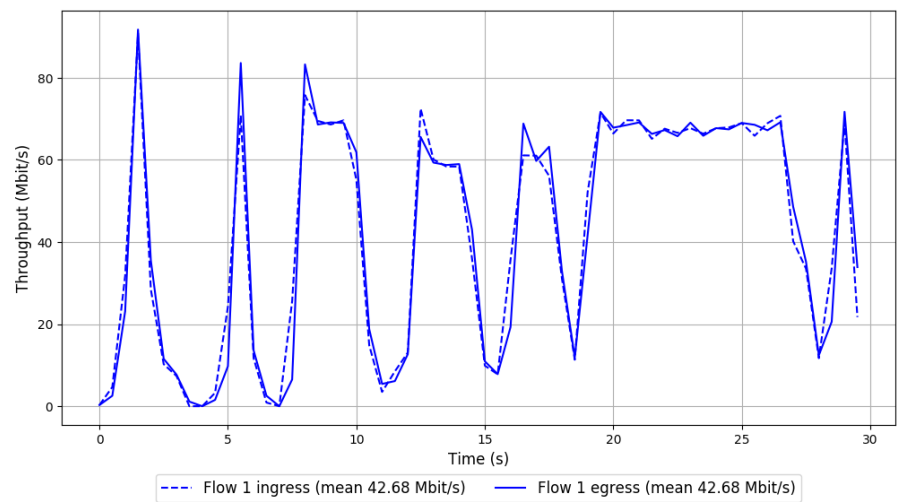
-- Flow 1:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 86.596 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 12:29:18

End at: 2017-09-21 12:29:48

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 87.003 ms

Loss rate: 0.00%

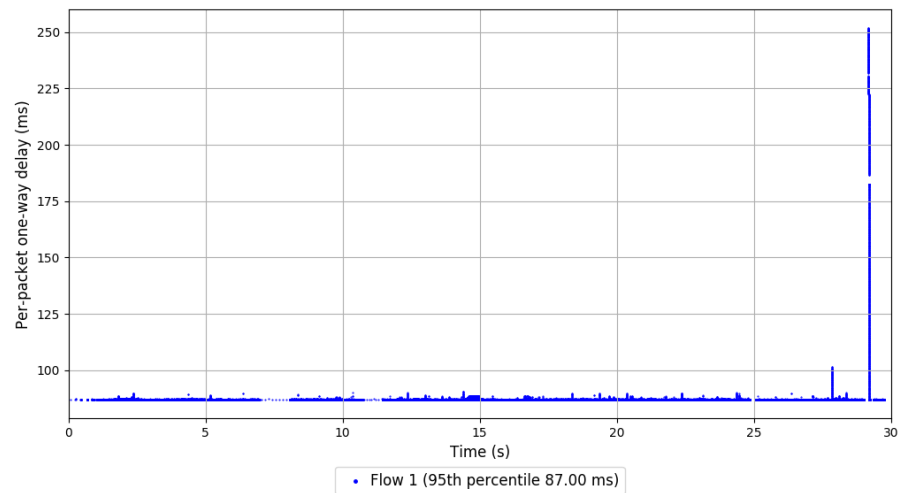
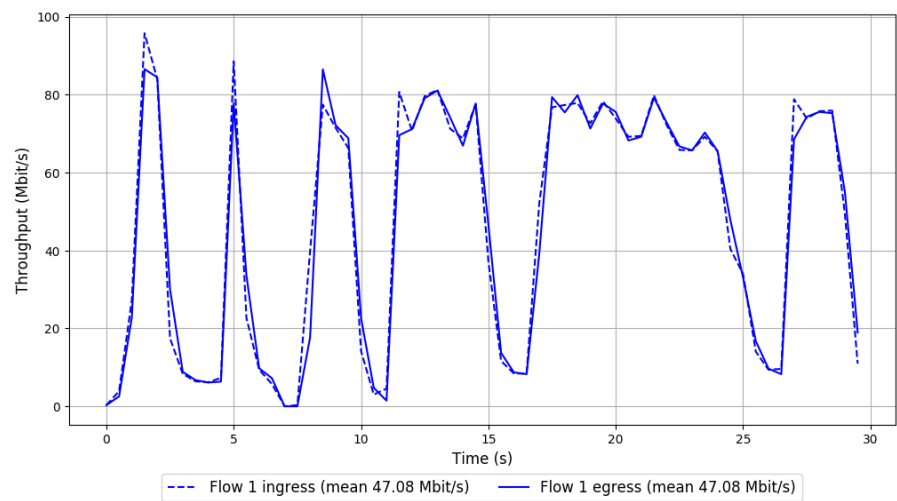
-- Flow 1:

Average throughput: 47.08 Mbit/s

95th percentile per-packet one-way delay: 87.003 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 12:40:21

End at: 2017-09-21 12:40:51

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.41 Mbit/s

95th percentile per-packet one-way delay: 86.627 ms

Loss rate: 0.00%

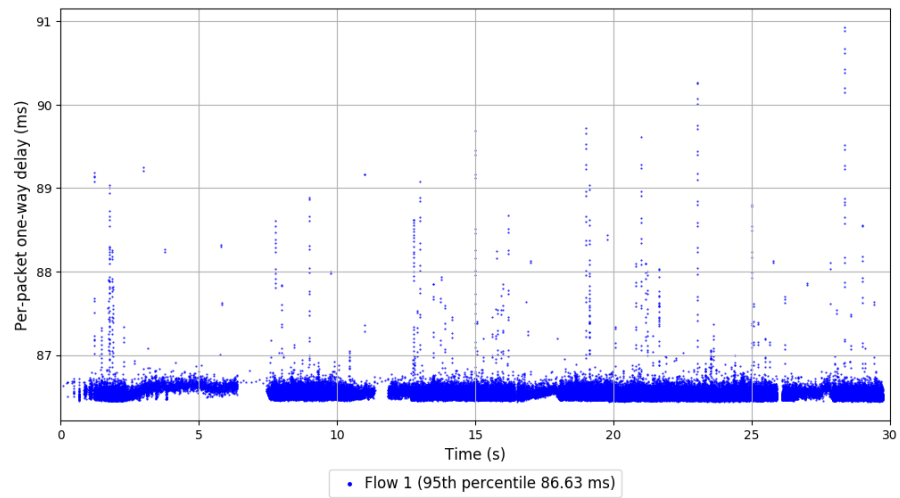
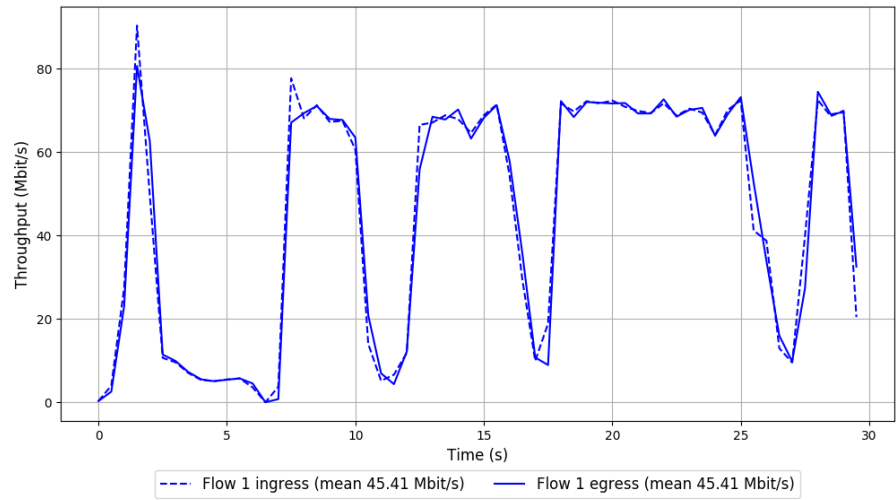
-- Flow 1:

Average throughput: 45.41 Mbit/s

95th percentile per-packet one-way delay: 86.627 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

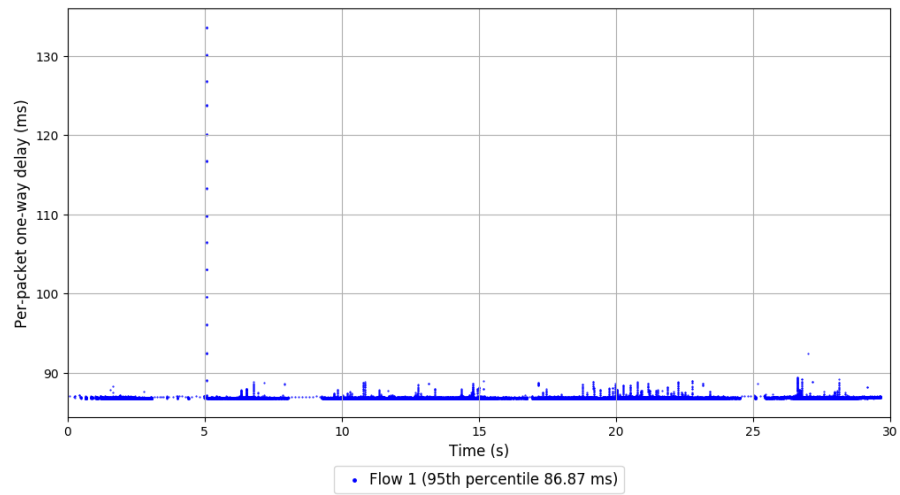
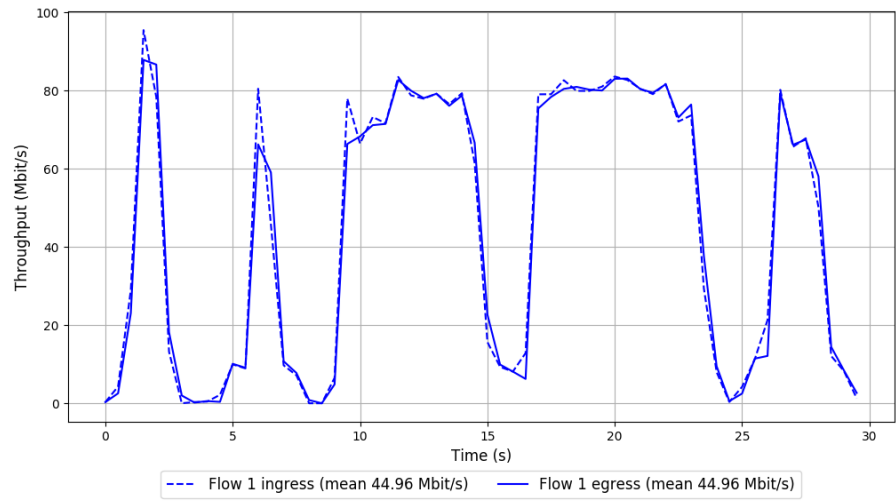


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 12:51:18
End at: 2017-09-21 12:51:48

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.96 Mbit/s
95th percentile per-packet one-way delay: 86.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.96 Mbit/s
95th percentile per-packet one-way delay: 86.870 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

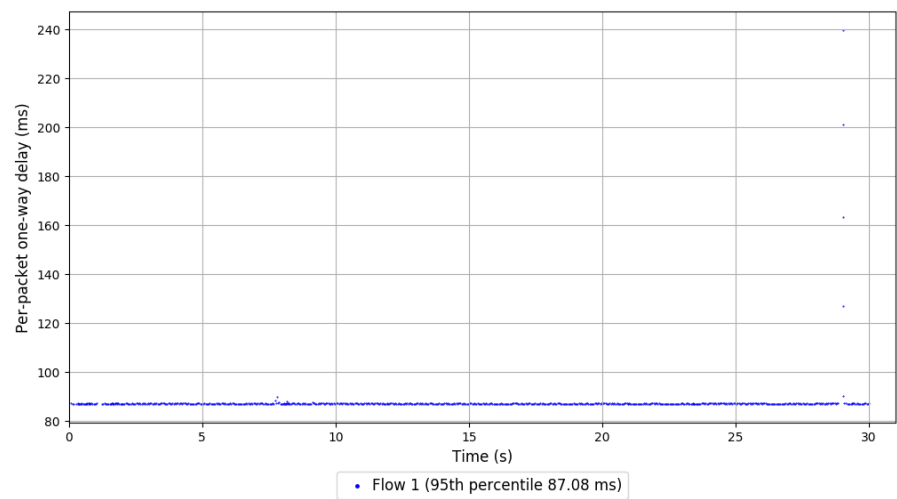
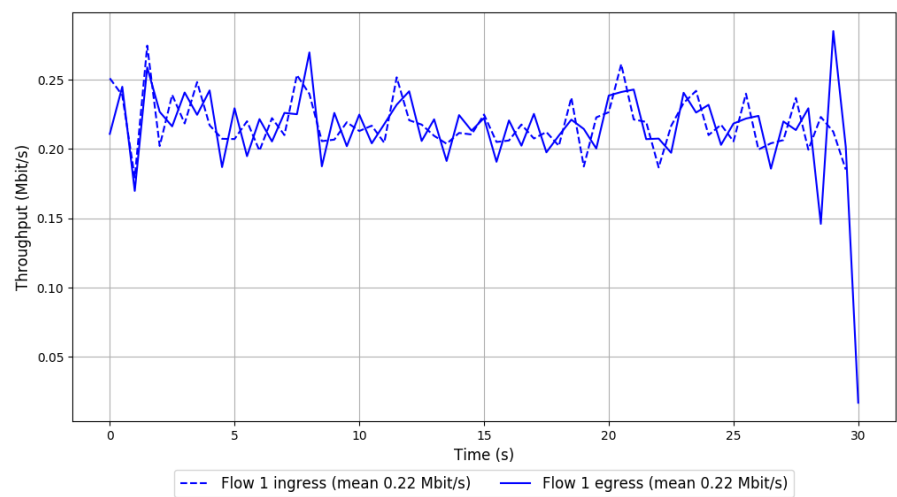


```
Run 1: Statistics of SCReAM

Start at: 2017-09-21 11:14:24
End at: 2017-09-21 11:14:54

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.079 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

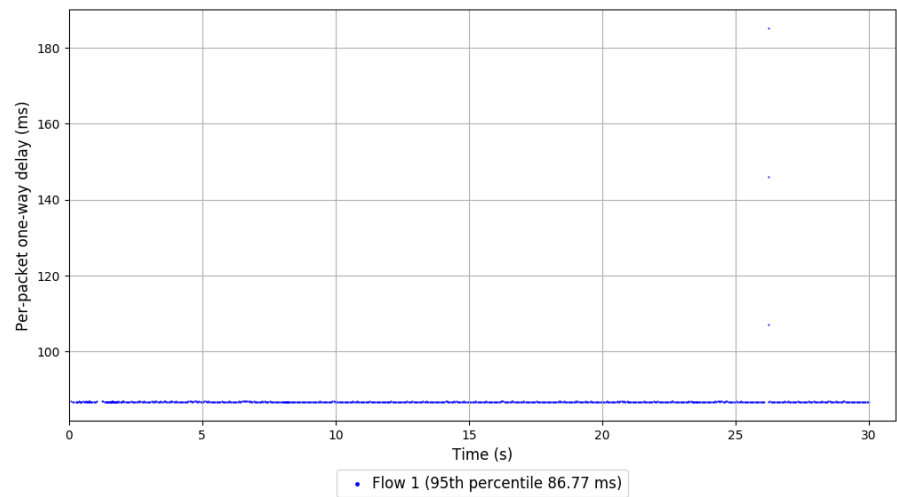
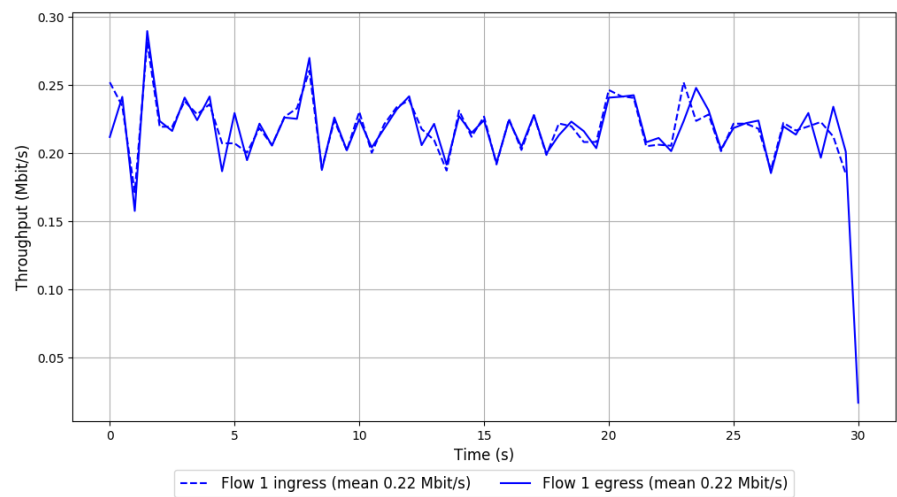


```
Run 2: Statistics of SCReAM

Start at: 2017-09-21 11:25:07
End at: 2017-09-21 11:25:37

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.766 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

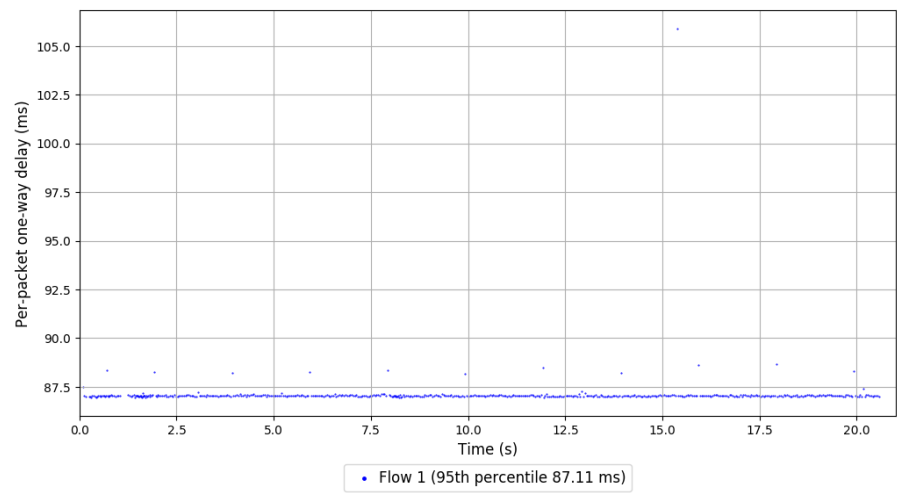
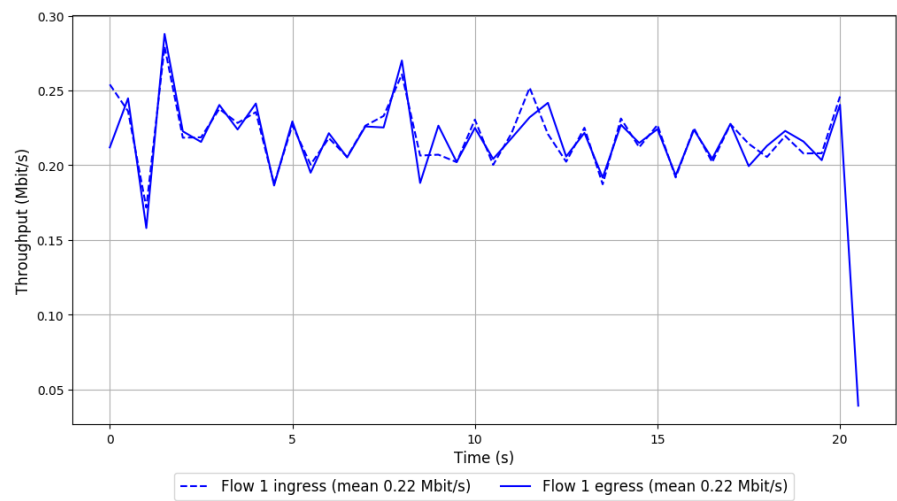


Run 3: Statistics of SReAM

Start at: 2017-09-21 11:35:57

End at: 2017-09-21 11:36:27

Run 3: Report of SReAM — Data Link

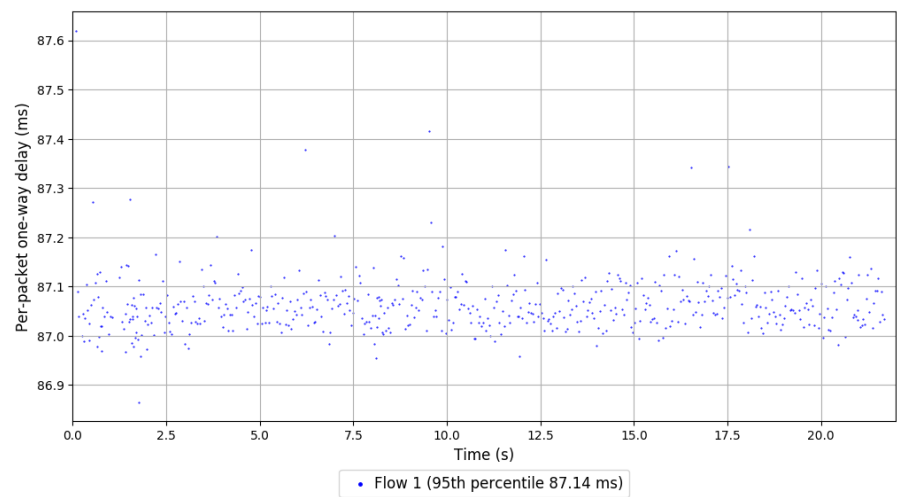
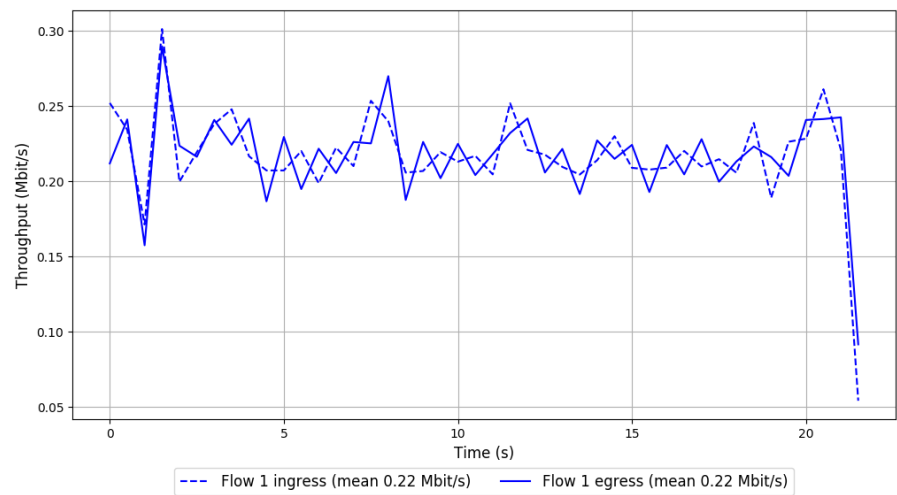


Run 4: Statistics of SCReAM

Start at: 2017-09-21 11:46:44

End at: 2017-09-21 11:47:14

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-21 11:57:32

End at: 2017-09-21 11:58:02

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.997 ms

Loss rate: 0.00%

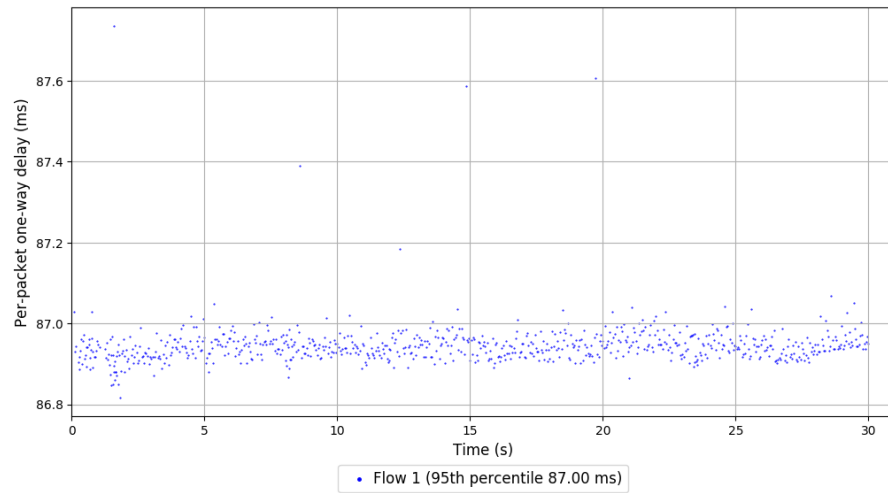
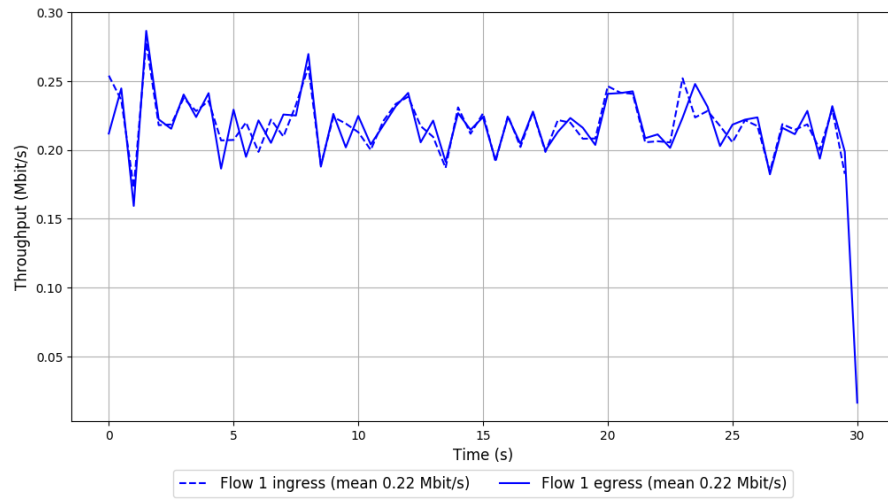
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.997 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

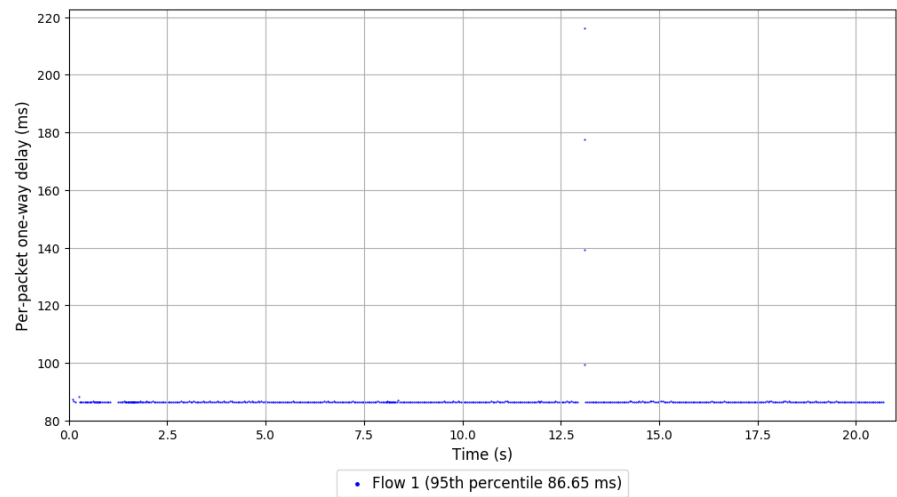
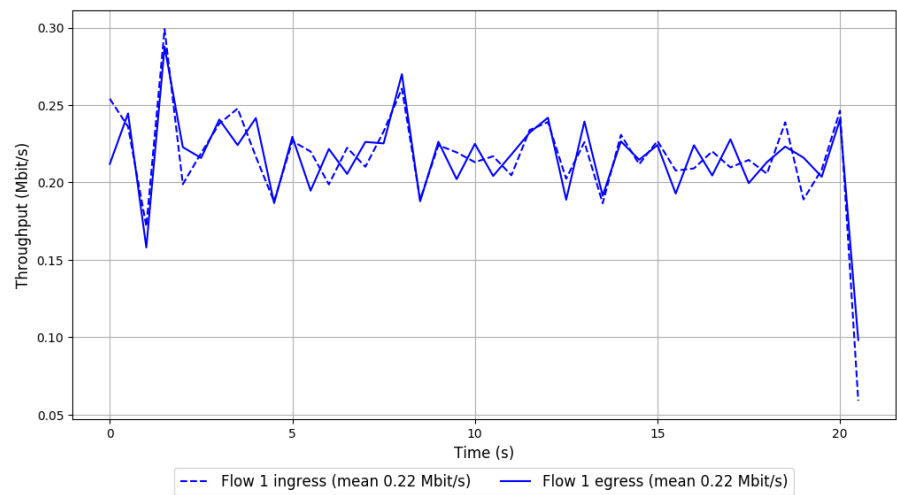


Run 6: Statistics of SReAM

Start at: 2017-09-21 12:08:27

End at: 2017-09-21 12:08:57

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-09-21 12:19:01

End at: 2017-09-21 12:19:31

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.054 ms

Loss rate: 0.00%

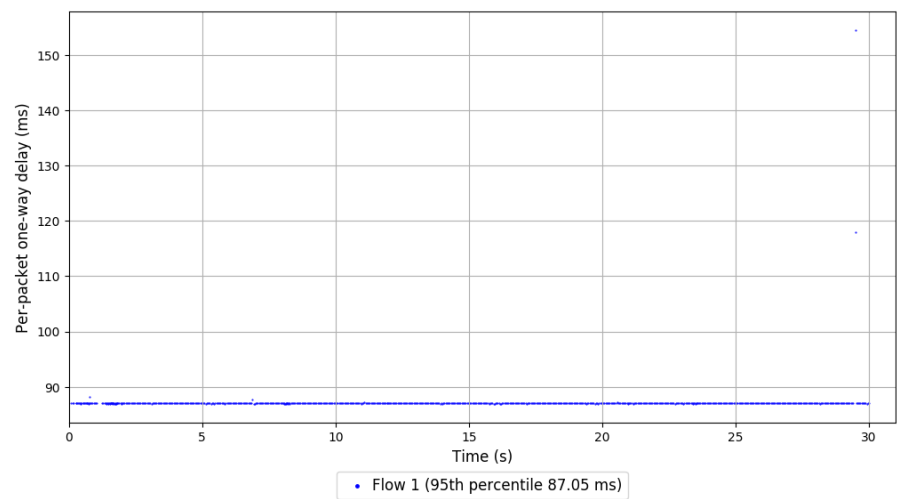
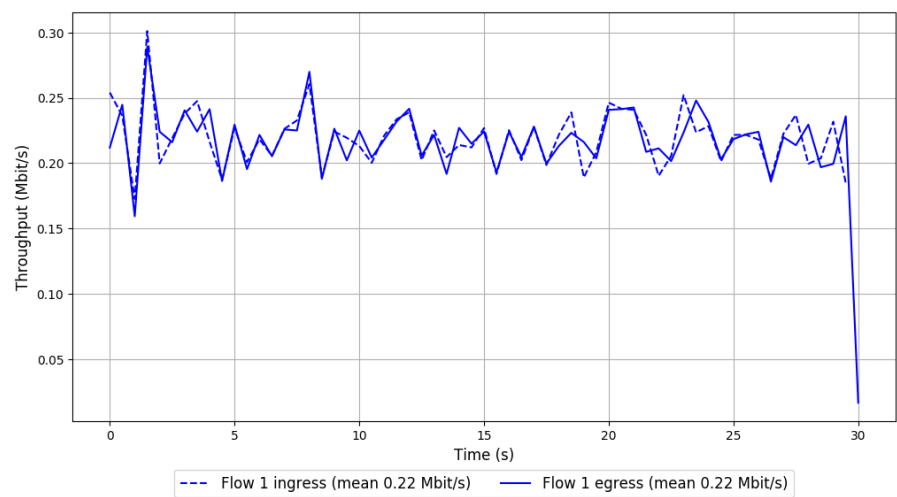
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.054 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-21 12:30:00

End at: 2017-09-21 12:30:31

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.737 ms

Loss rate: 0.00%

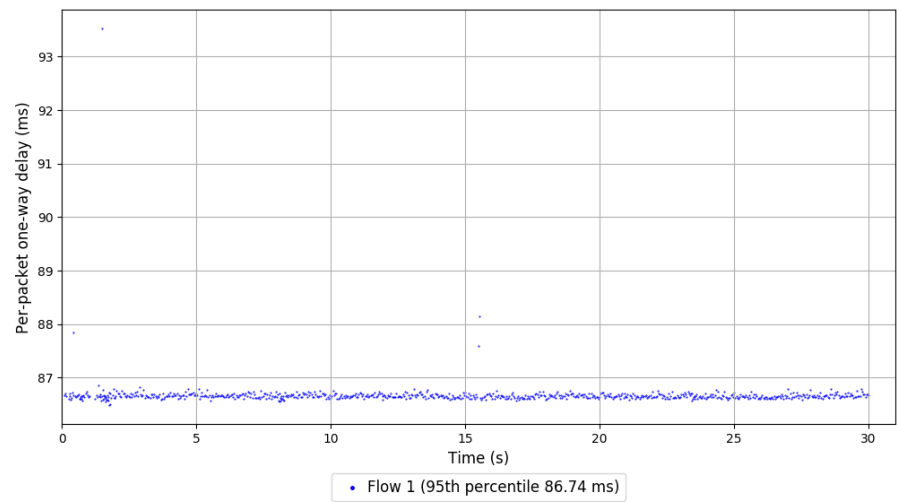
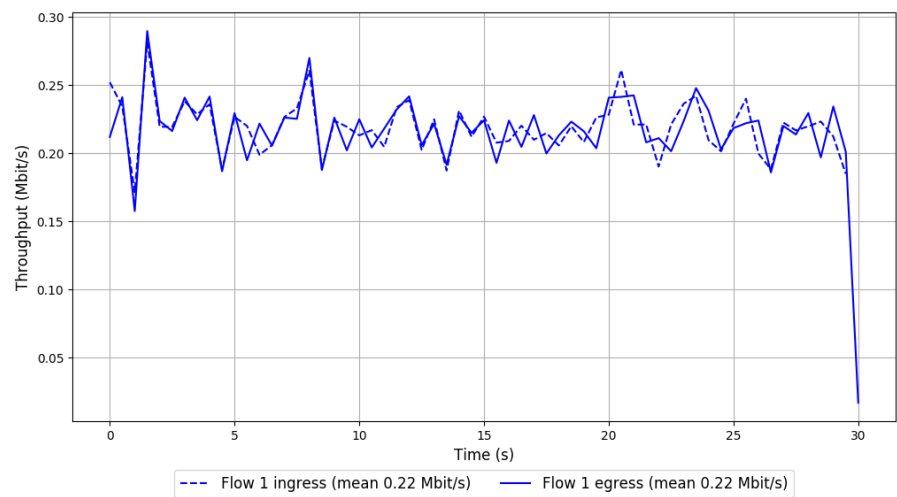
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.737 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-21 12:41:04

End at: 2017-09-21 12:41:34

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.736 ms

Loss rate: 0.00%

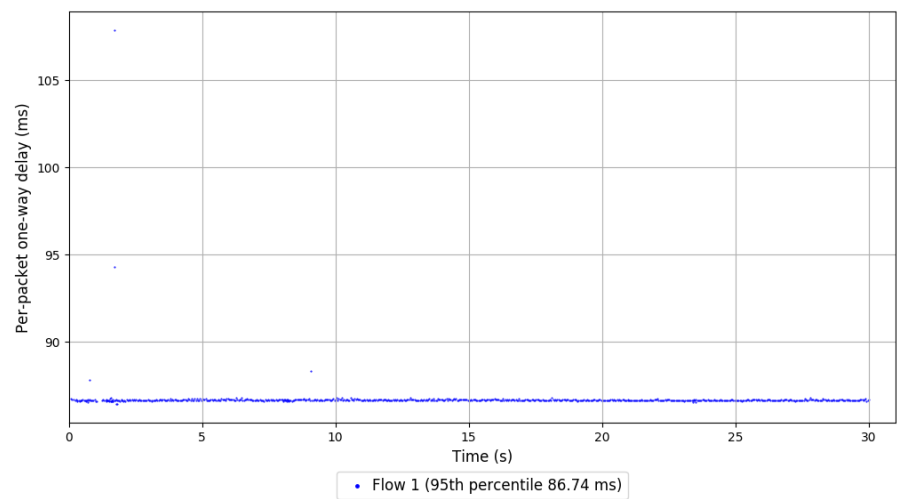
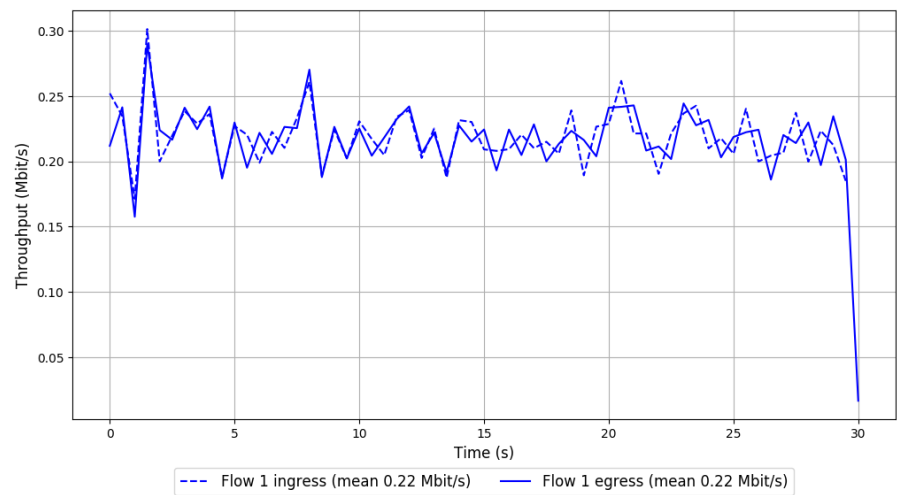
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.736 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

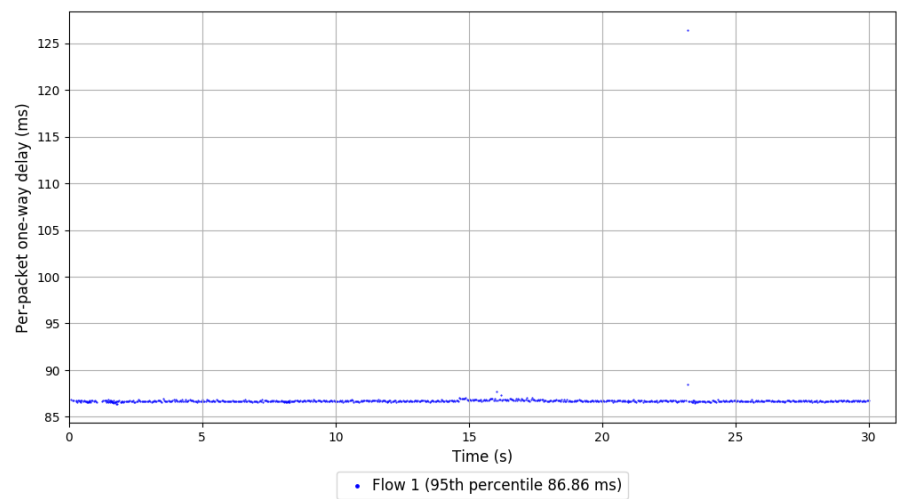
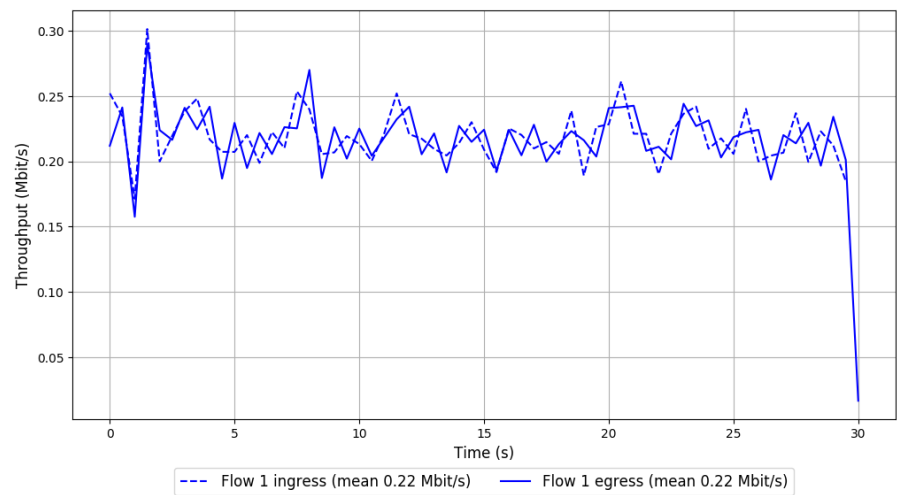


```
Run 10: Statistics of SReAM

Start at: 2017-09-21 12:52:00
End at: 2017-09-21 12:52:30

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.860 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

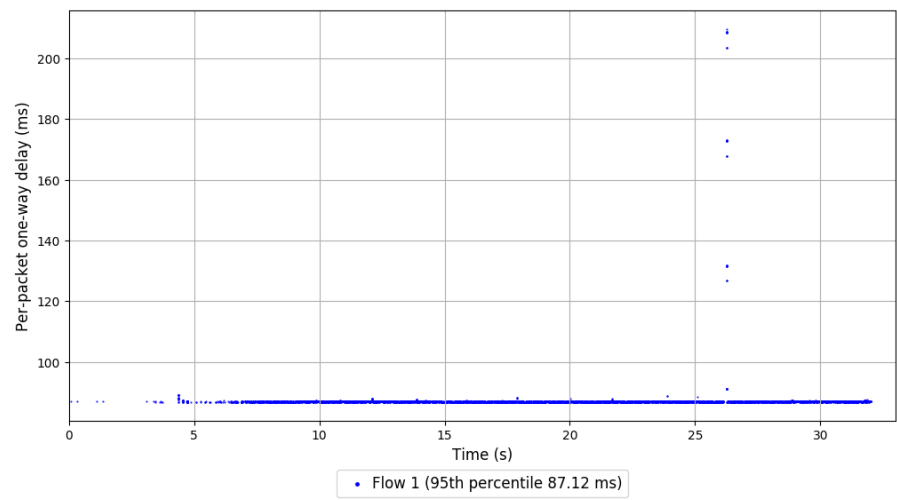
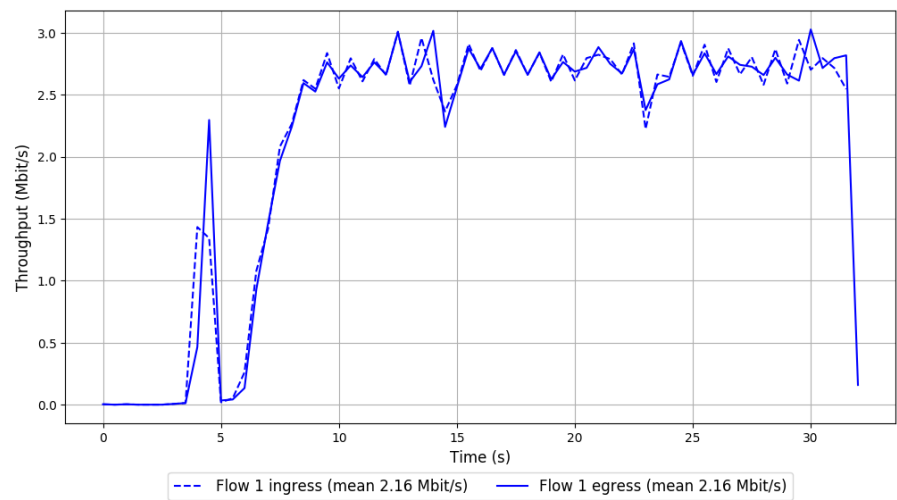


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-21 11:18:42
End at: 2017-09-21 11:19:12

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 87.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 87.118 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 11:29:27

End at: 2017-09-21 11:29:57

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 87.391 ms

Loss rate: 0.00%

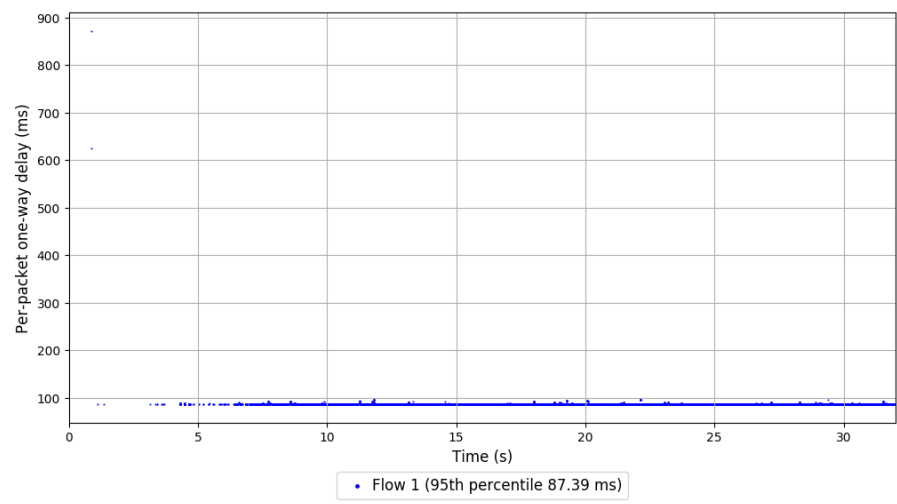
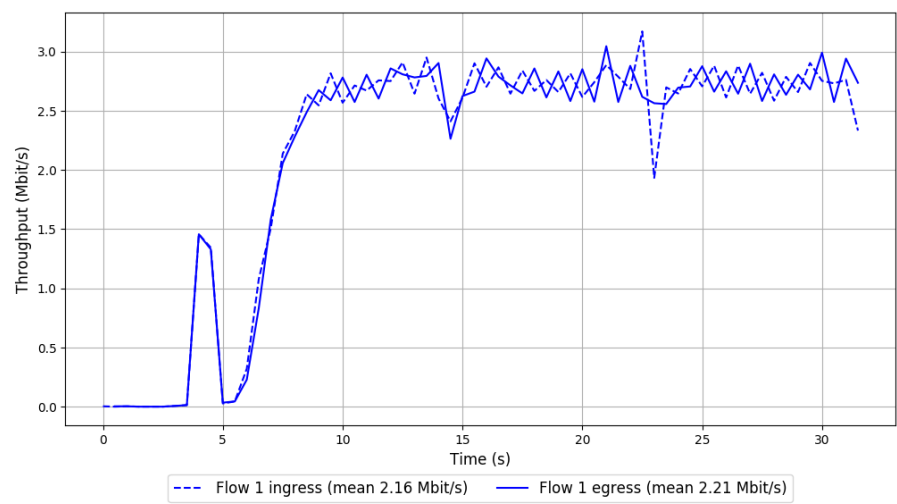
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 87.391 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-21 11:40:10

End at: 2017-09-21 11:40:40

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 87.170 ms

Loss rate: 0.00%

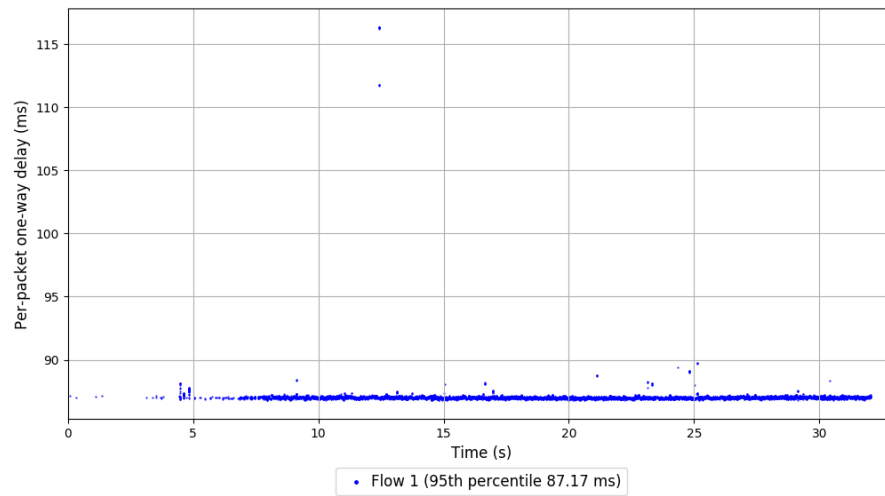
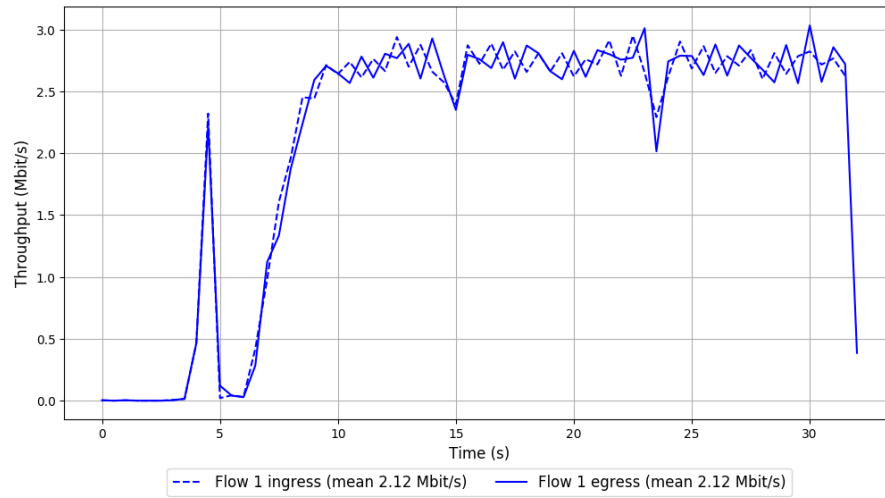
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 87.170 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-21 11:51:04

End at: 2017-09-21 11:51:34

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 87.159 ms

Loss rate: 0.02%

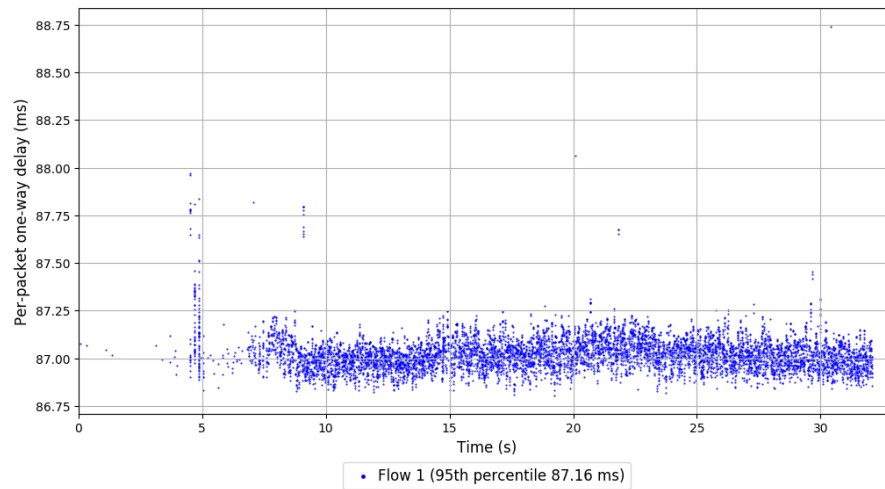
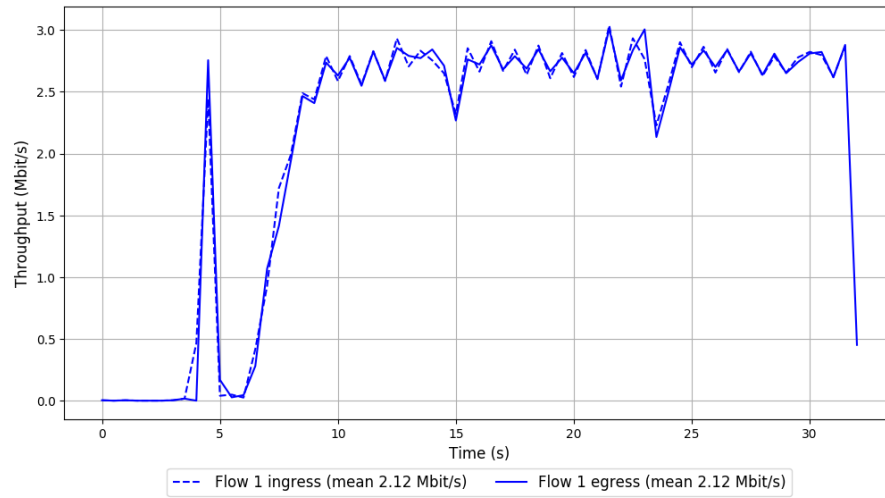
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 87.159 ms

Loss rate: 0.02%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-21 12:01:54

End at: 2017-09-21 12:02:24

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 86.845 ms

Loss rate: 0.00%

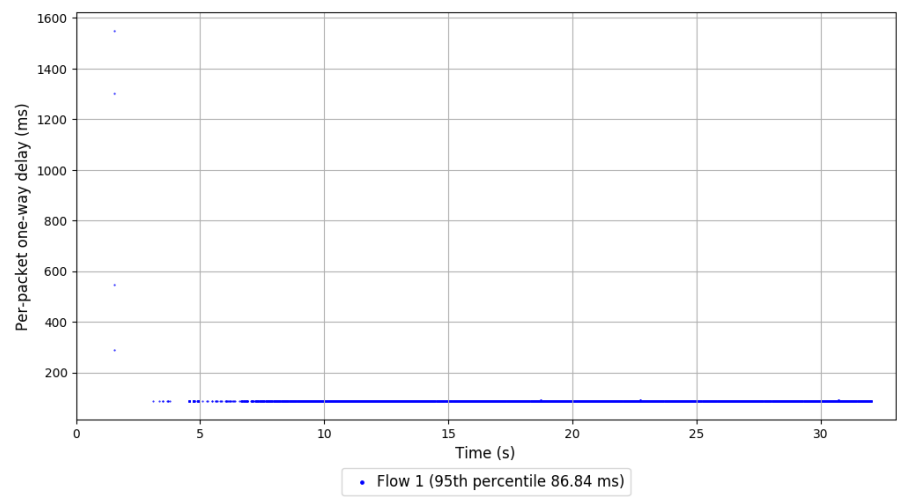
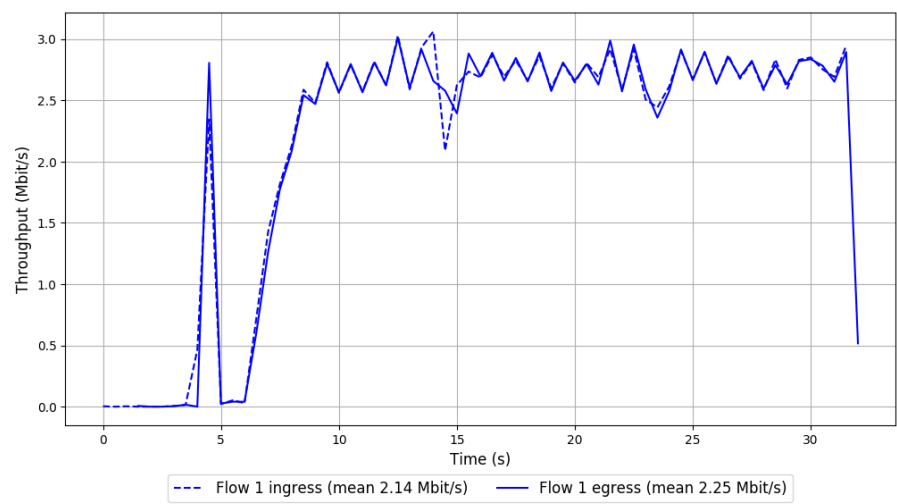
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 86.845 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-21 12:12:37

End at: 2017-09-21 12:13:07

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.620 ms

Loss rate: 0.00%

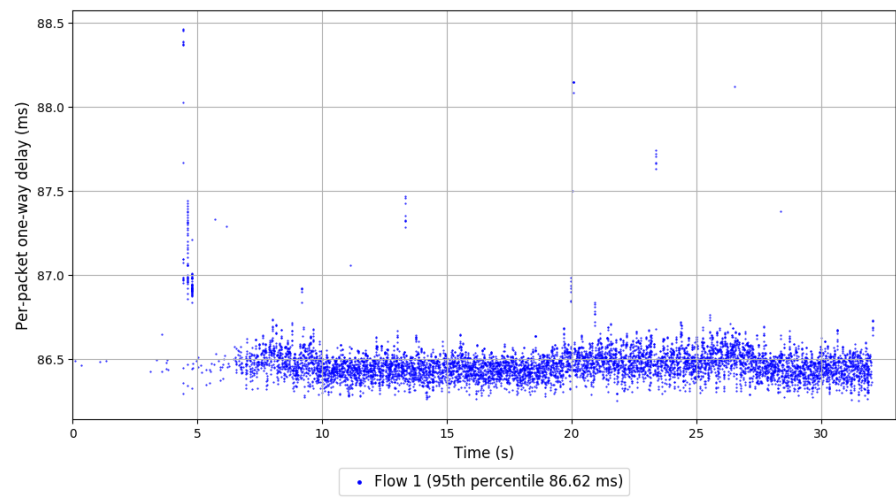
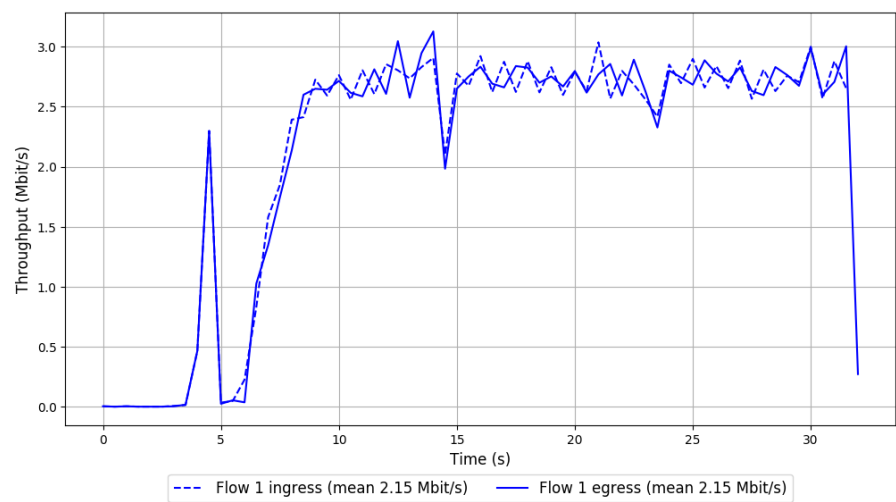
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.620 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-21 12:23:20

End at: 2017-09-21 12:23:50

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 86.864 ms

Loss rate: 0.00%

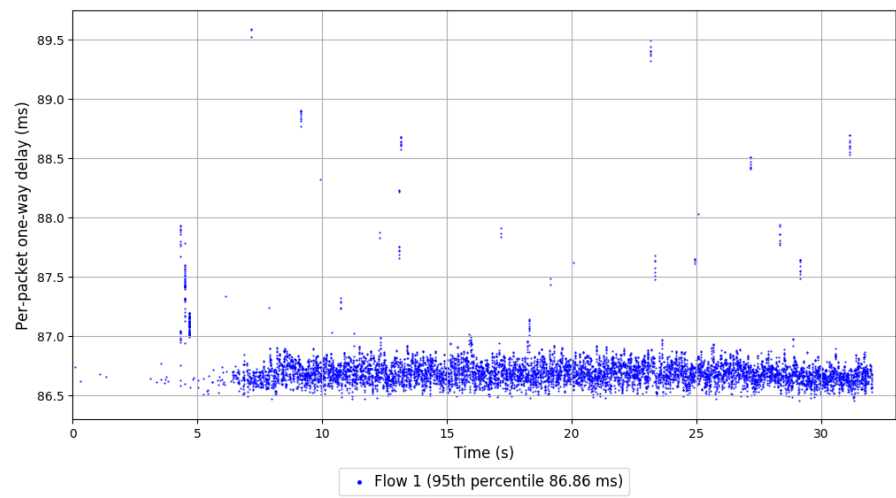
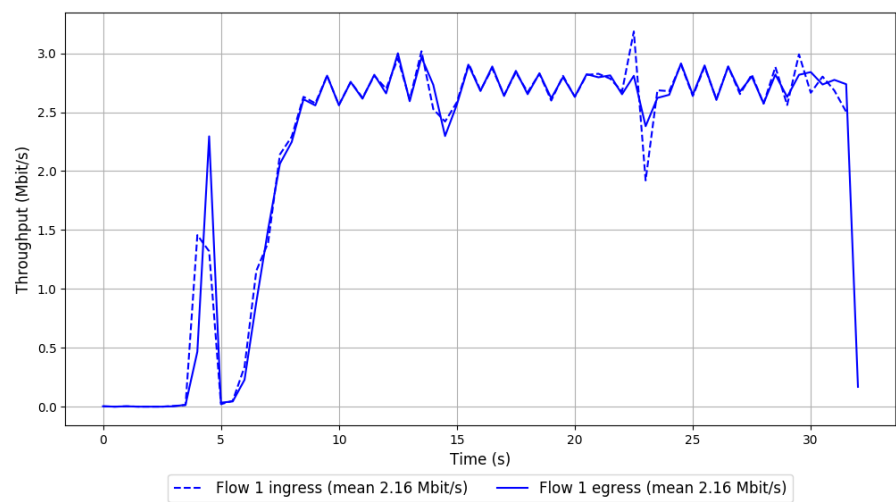
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 86.864 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-21 12:34:29

End at: 2017-09-21 12:34:59

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.708 ms

Loss rate: 0.00%

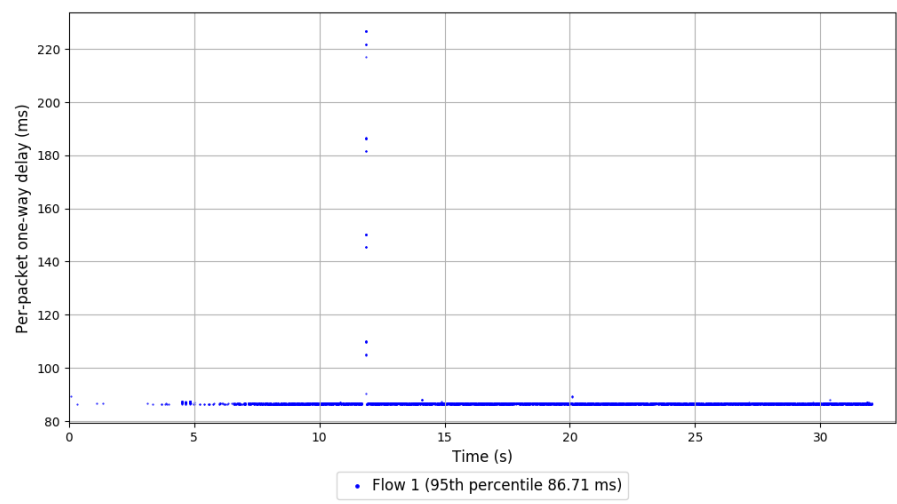
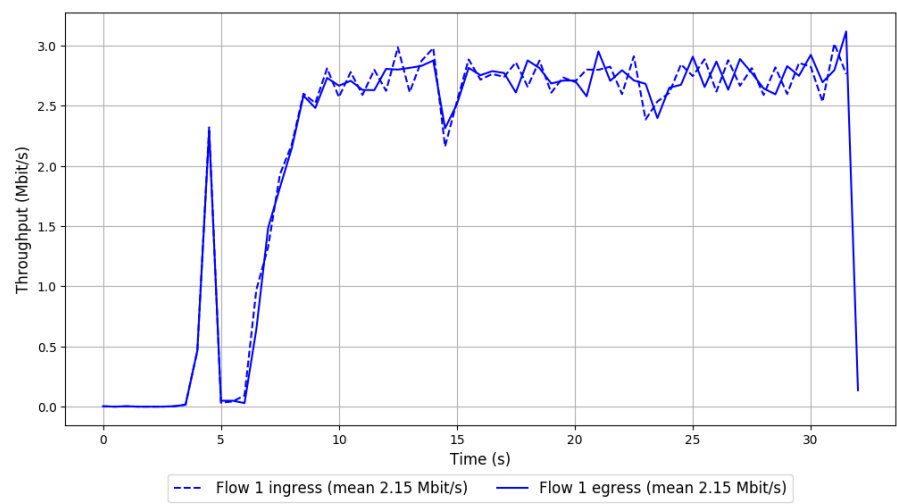
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.708 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-21 12:45:23

End at: 2017-09-21 12:45:53

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 86.702 ms

Loss rate: 0.00%

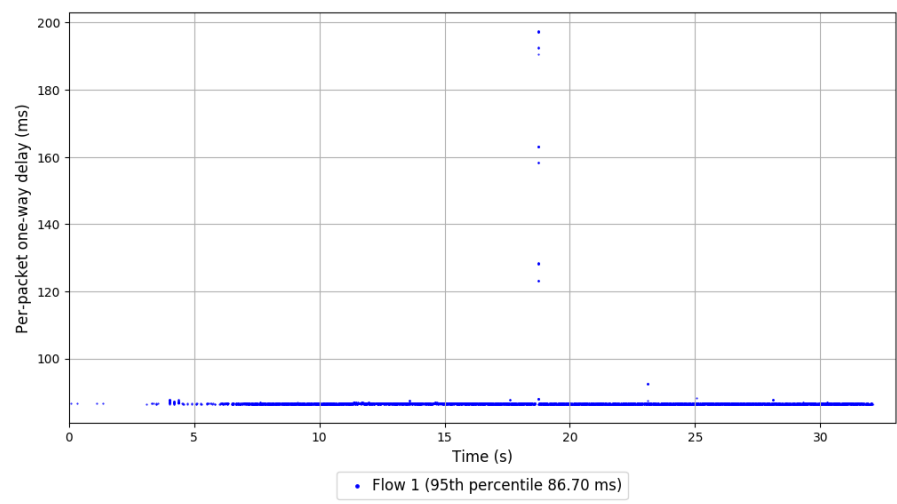
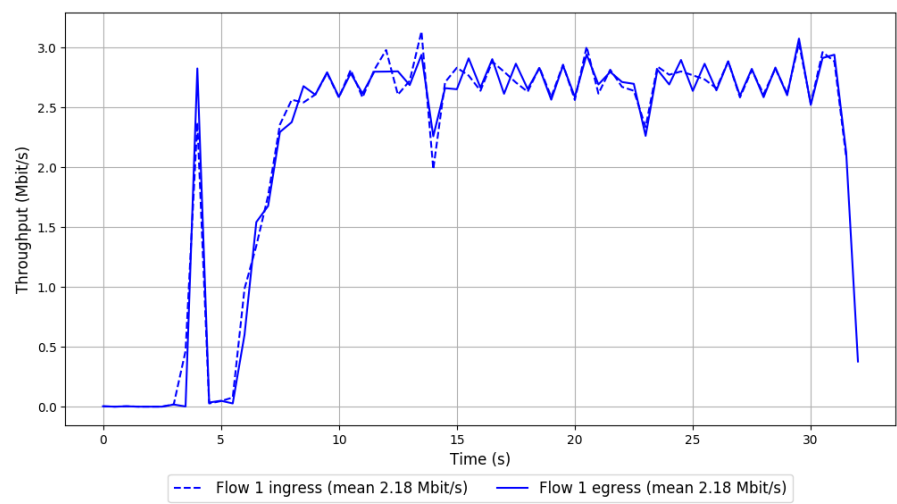
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 86.702 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-21 12:56:19

End at: 2017-09-21 12:56:49

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 87.267 ms

Loss rate: 0.00%

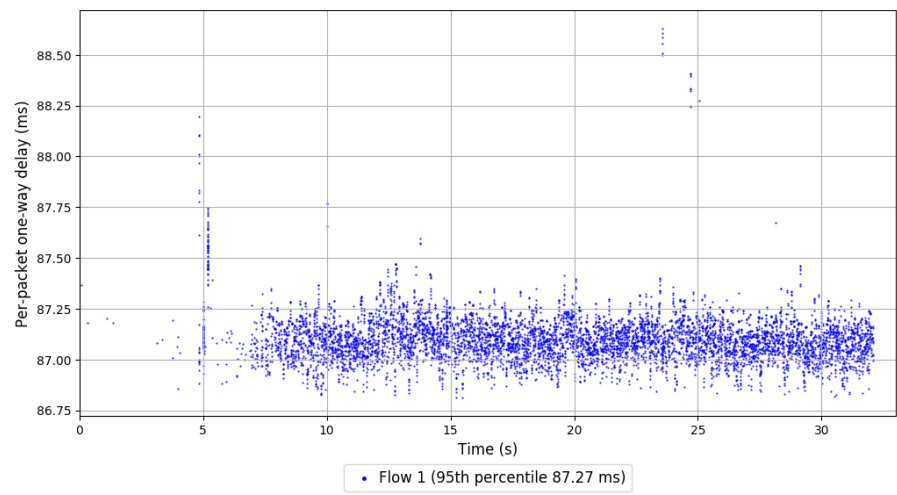
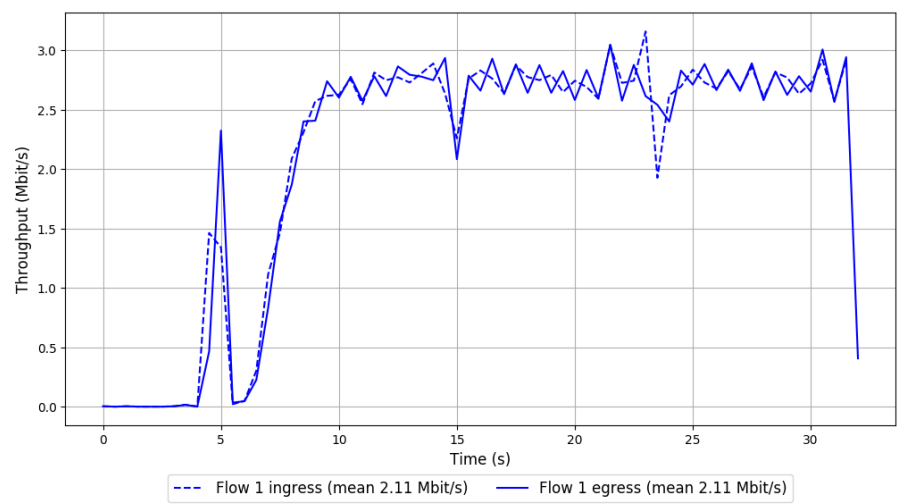
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 87.267 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

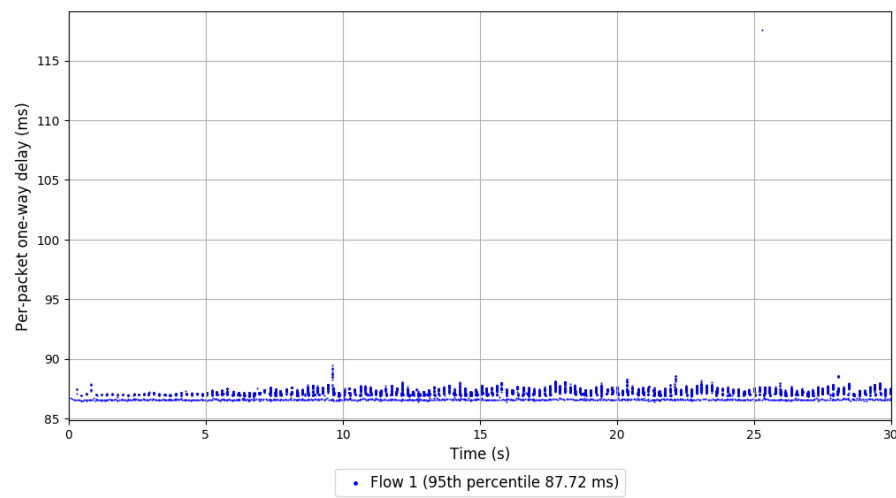
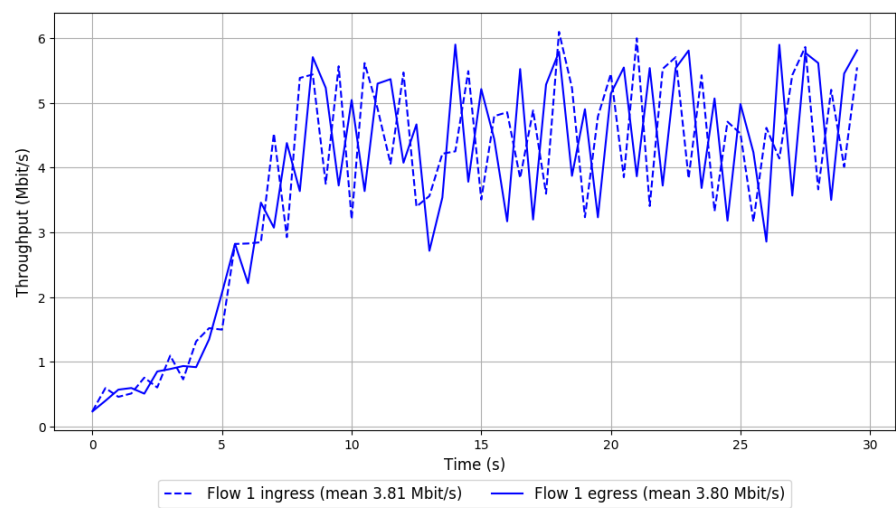


```
Run 1: Statistics of Sprout

Start at: 2017-09-21 11:16:22
End at: 2017-09-21 11:16:52

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 87.724 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 87.724 ms
Loss rate: 0.35%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 11:27:06

End at: 2017-09-21 11:27:36

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 87.759 ms

Loss rate: 0.38%

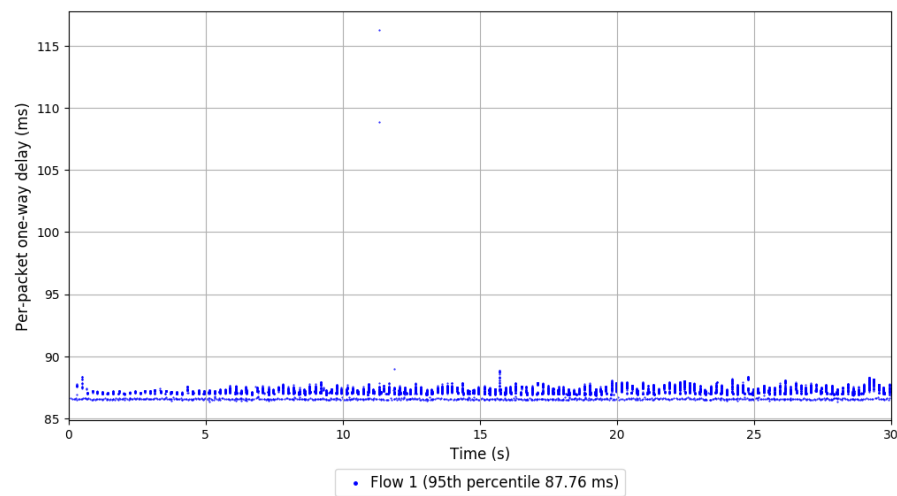
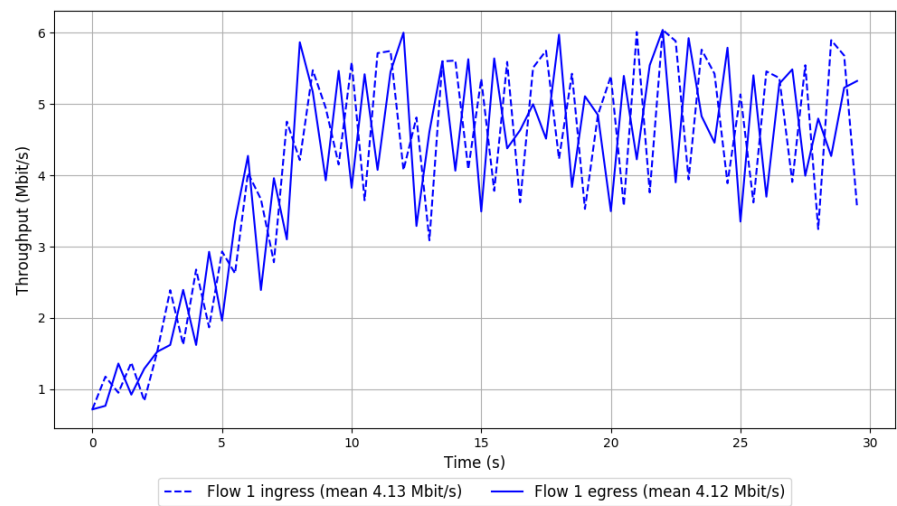
-- Flow 1:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 87.759 ms

Loss rate: 0.38%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-21 11:37:56

End at: 2017-09-21 11:38:26

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 87.783 ms

Loss rate: 1.53%

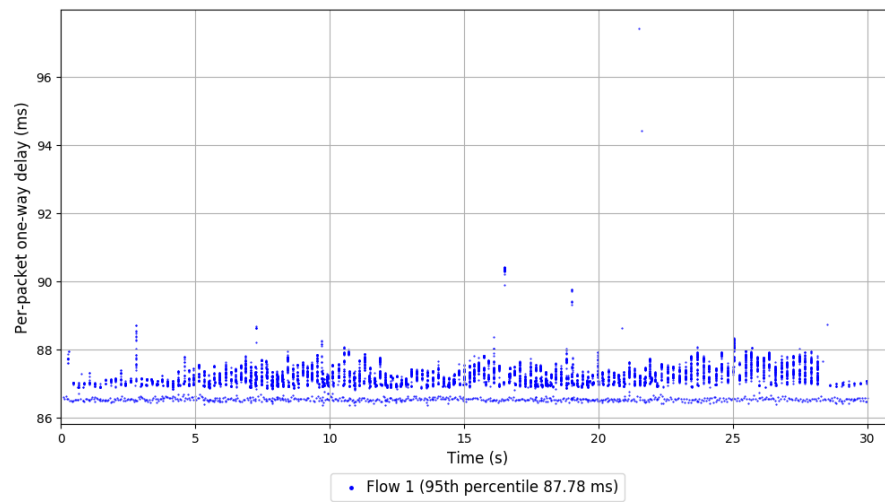
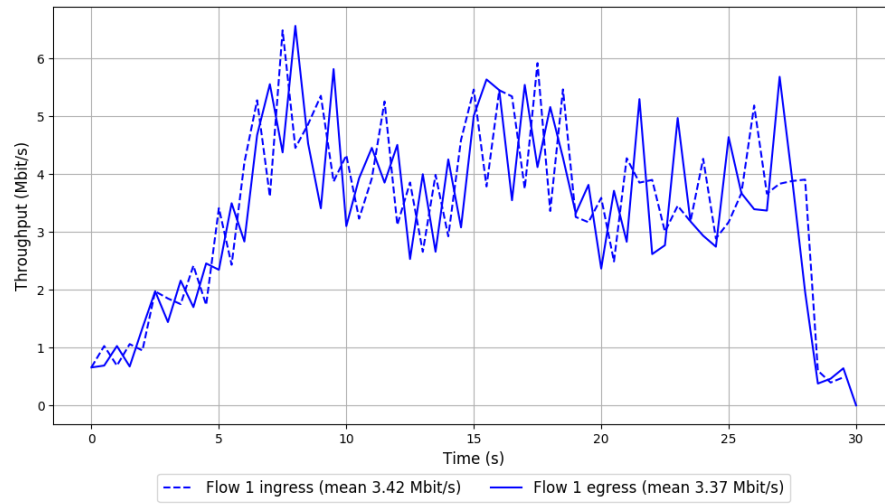
-- Flow 1:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 87.783 ms

Loss rate: 1.53%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-21 11:48:42

End at: 2017-09-21 11:49:12

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 87.865 ms

Loss rate: 0.72%

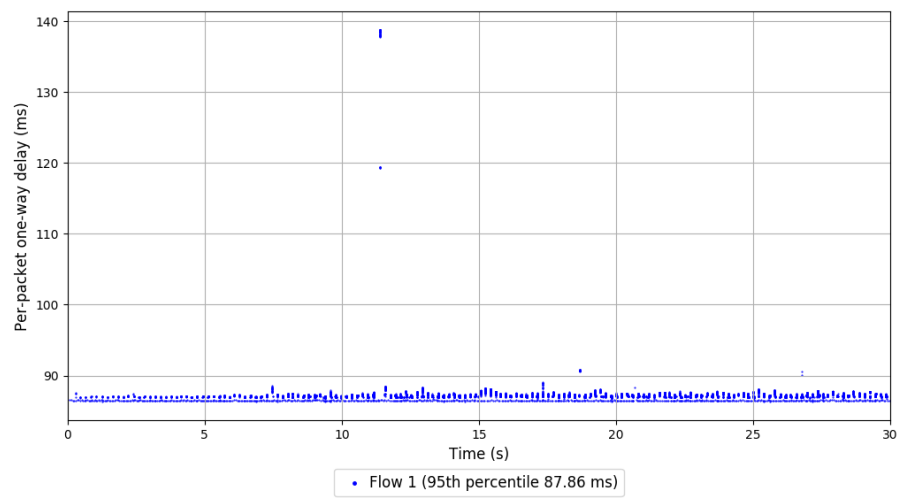
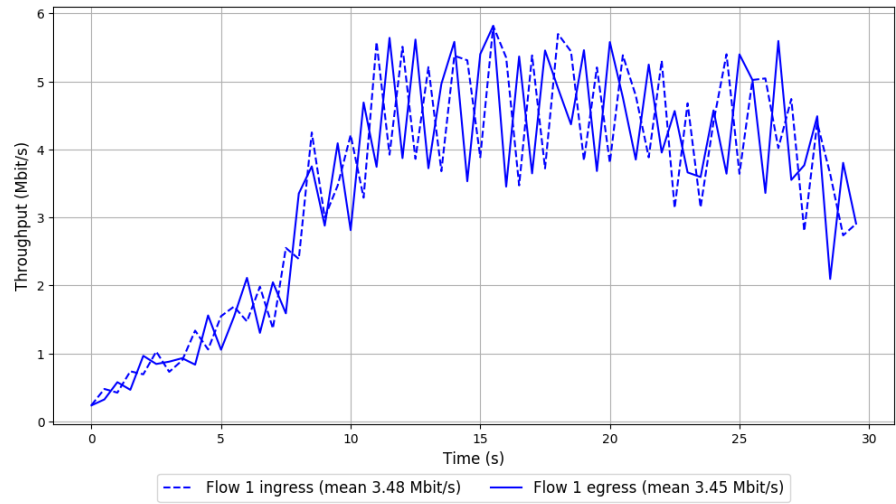
-- Flow 1:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 87.865 ms

Loss rate: 0.72%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-21 11:59:30

End at: 2017-09-21 12:00:00

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 87.806 ms

Loss rate: 0.77%

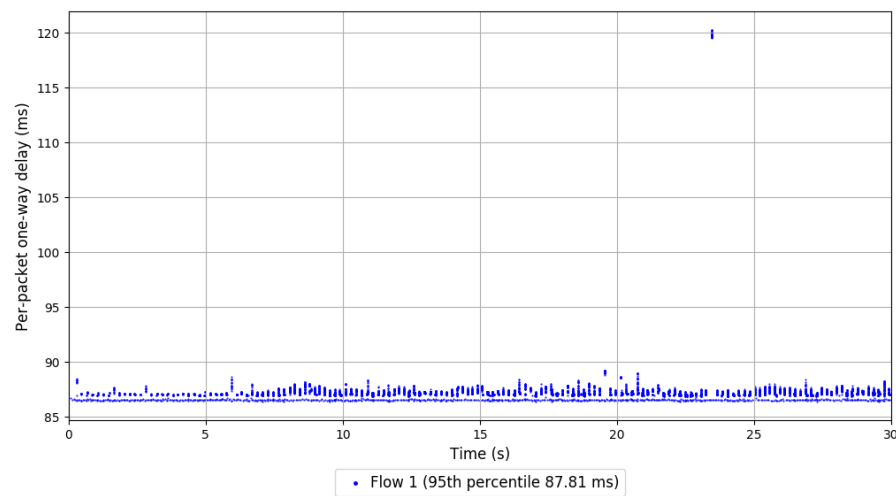
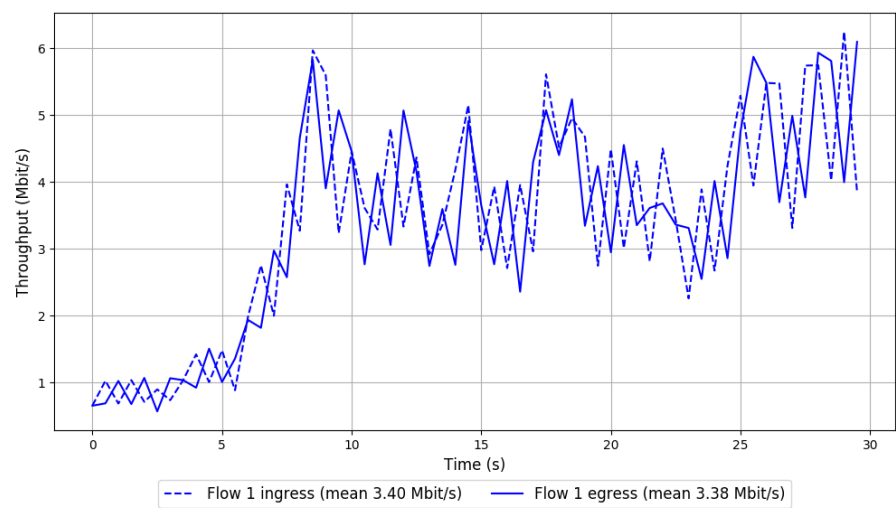
-- Flow 1:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 87.806 ms

Loss rate: 0.77%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 12:10:25

End at: 2017-09-21 12:10:55

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 87.598 ms

Loss rate: 0.40%

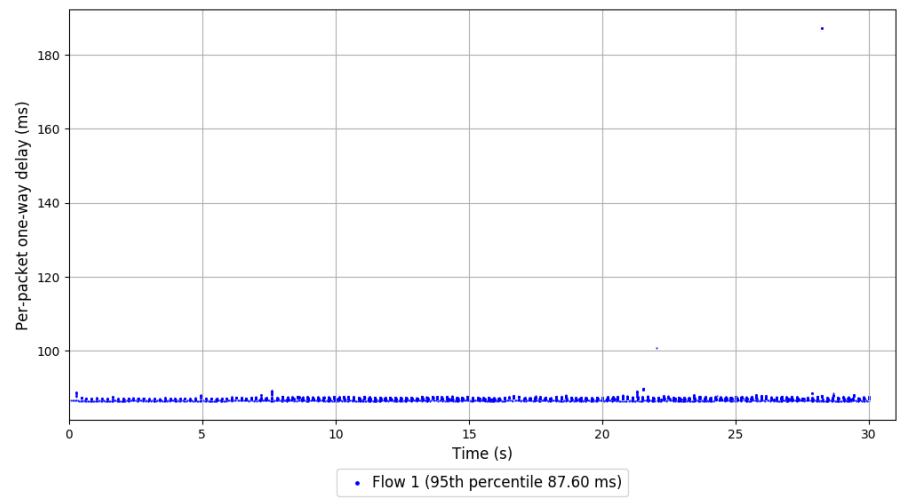
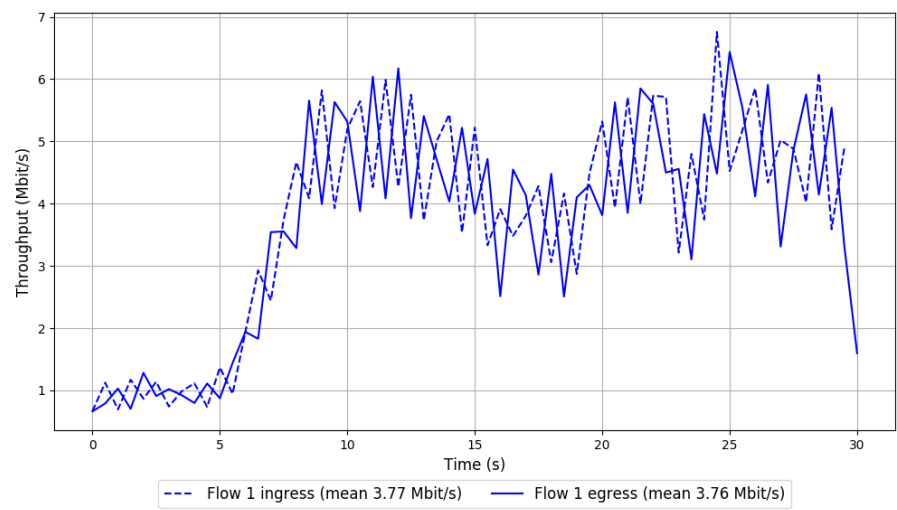
-- Flow 1:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 87.598 ms

Loss rate: 0.40%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 12:21:01

End at: 2017-09-21 12:21:31

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 87.577 ms

Loss rate: 0.35%

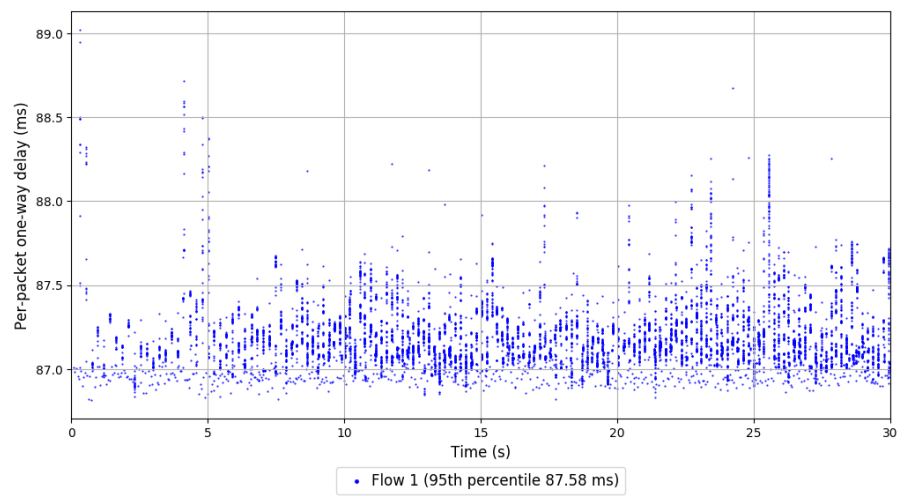
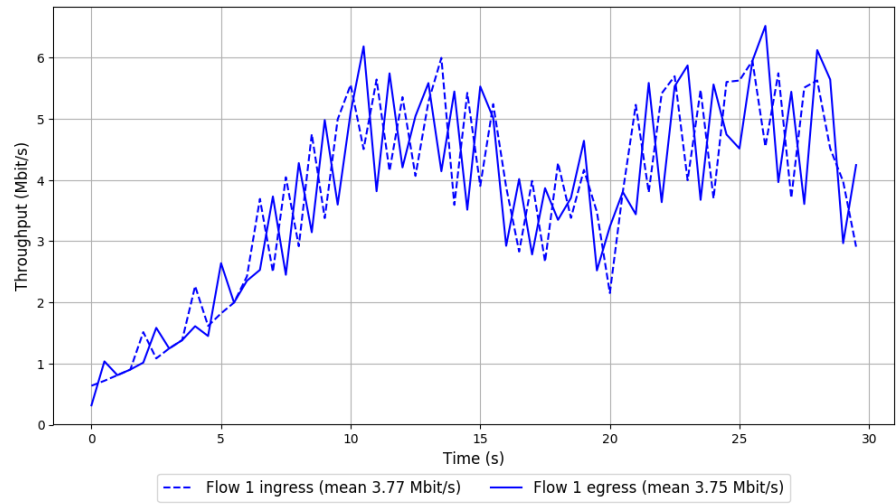
-- Flow 1:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 87.577 ms

Loss rate: 0.35%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-21 12:32:01

End at: 2017-09-21 12:32:31

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 87.779 ms

Loss rate: 0.76%

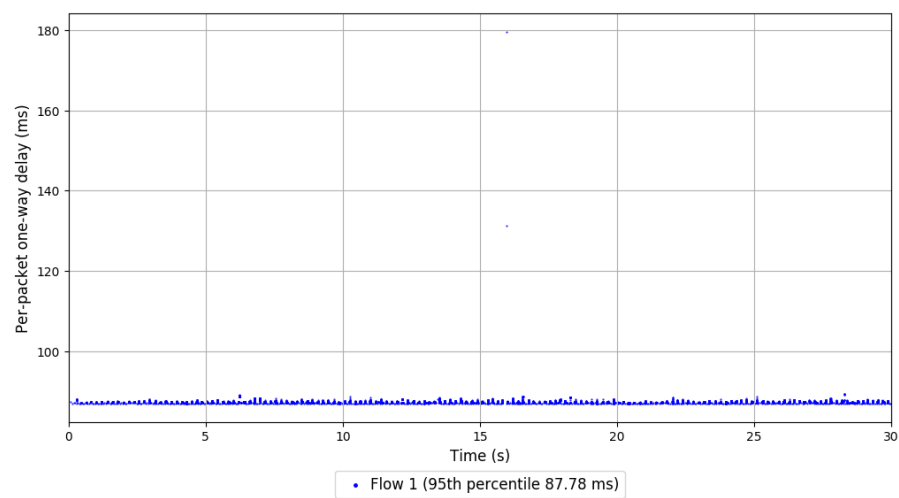
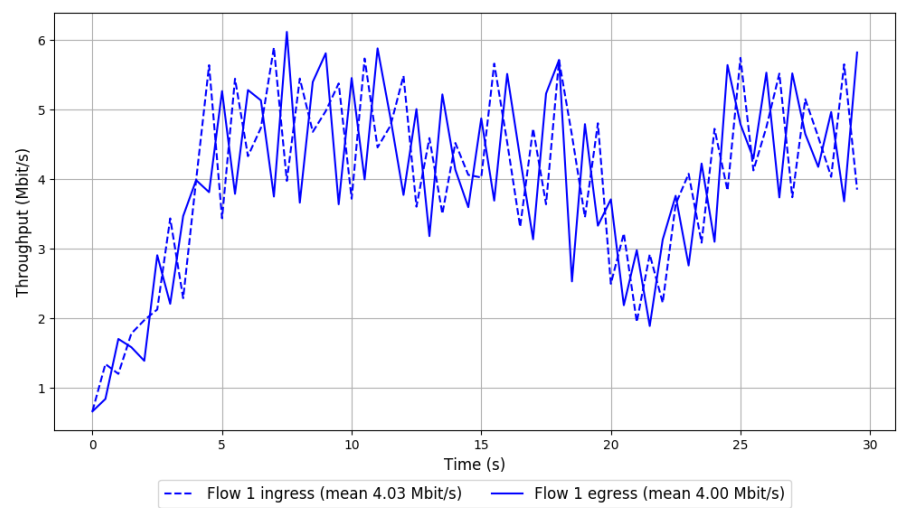
-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 87.779 ms

Loss rate: 0.76%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-21 12:43:03

End at: 2017-09-21 12:43:33

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 87.593 ms

Loss rate: 0.78%

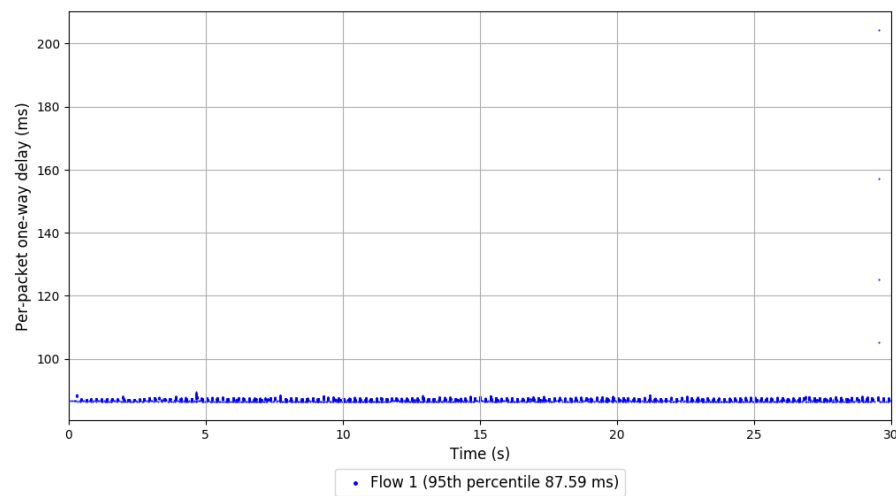
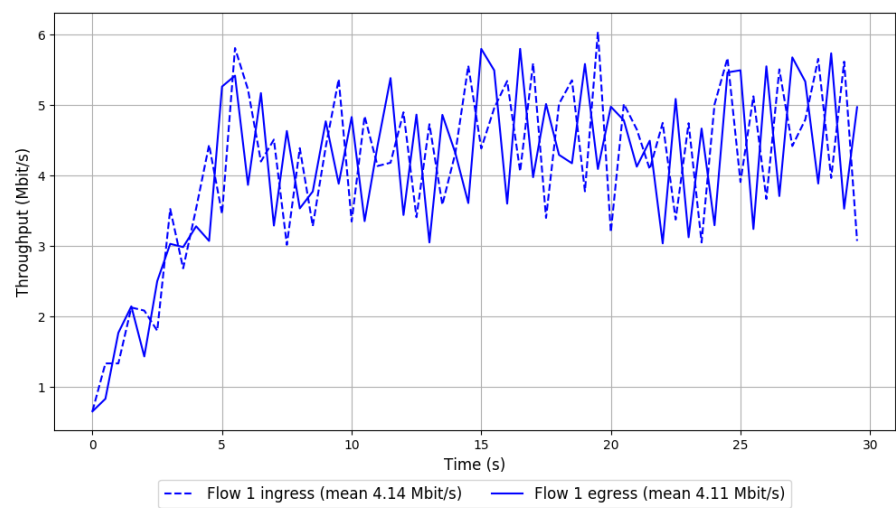
-- Flow 1:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 87.593 ms

Loss rate: 0.78%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-21 12:53:58

End at: 2017-09-21 12:54:28

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.738 ms

Loss rate: 0.24%

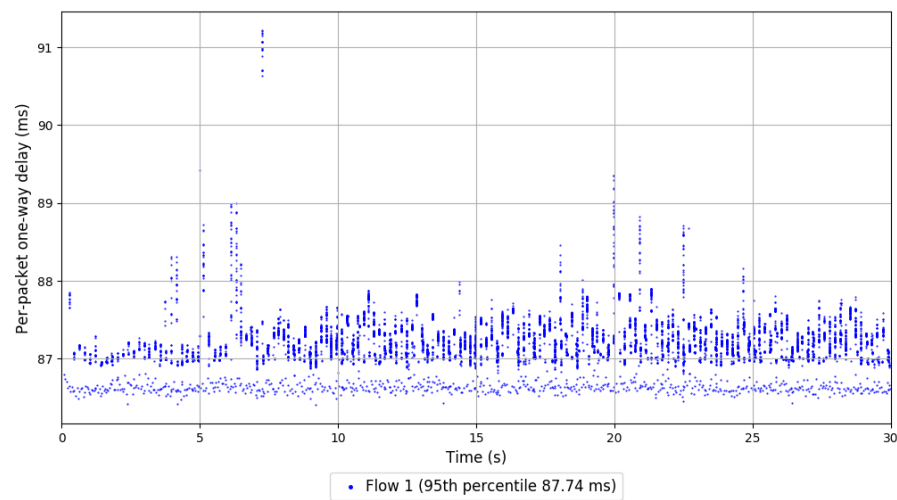
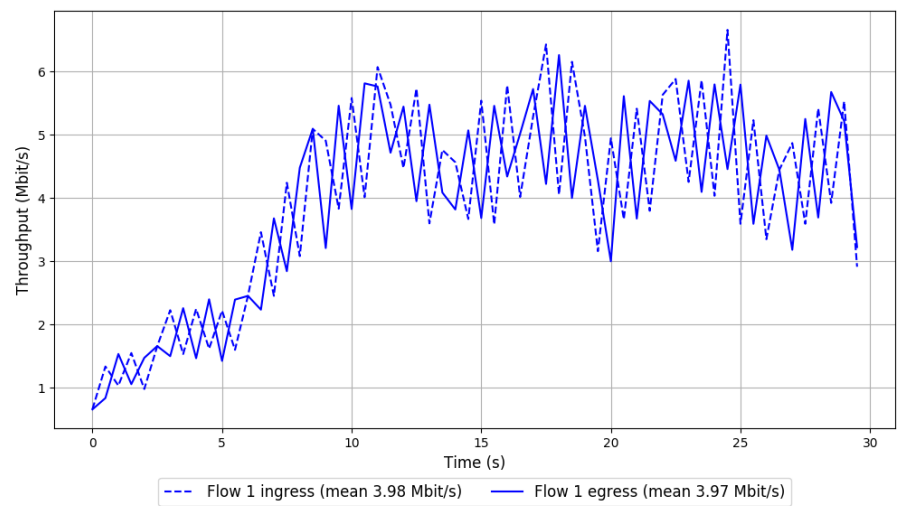
-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 87.738 ms

Loss rate: 0.24%

Run 10: Report of Sprout — Data Link

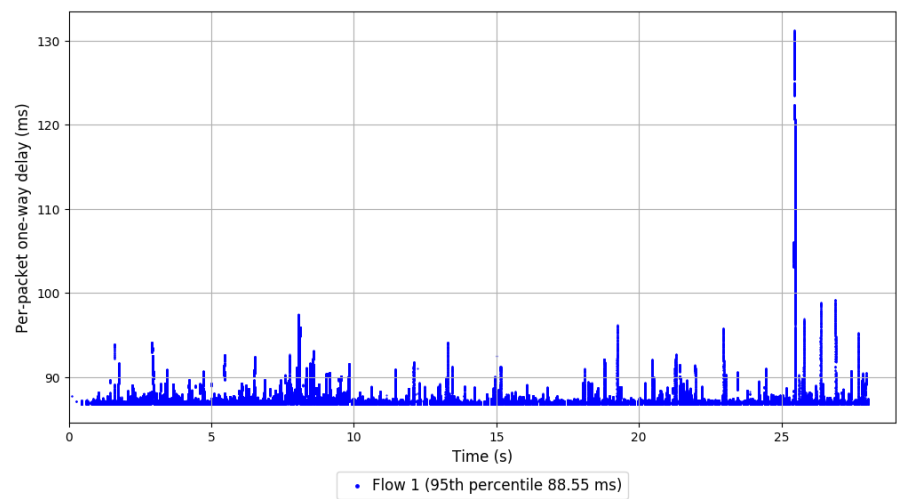
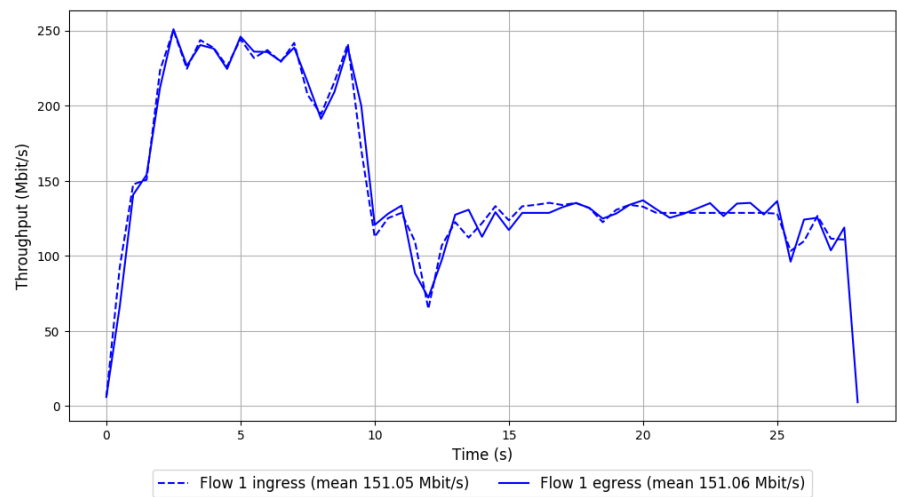


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 11:10:21
End at: 2017-09-21 11:10:51

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.06 Mbit/s
95th percentile per-packet one-way delay: 88.549 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.06 Mbit/s
95th percentile per-packet one-way delay: 88.549 ms
Loss rate: 0.00%
```

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

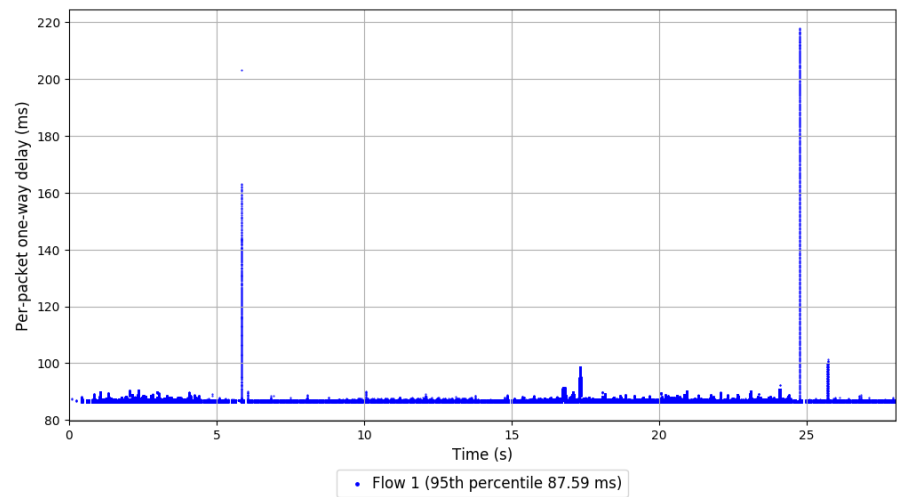
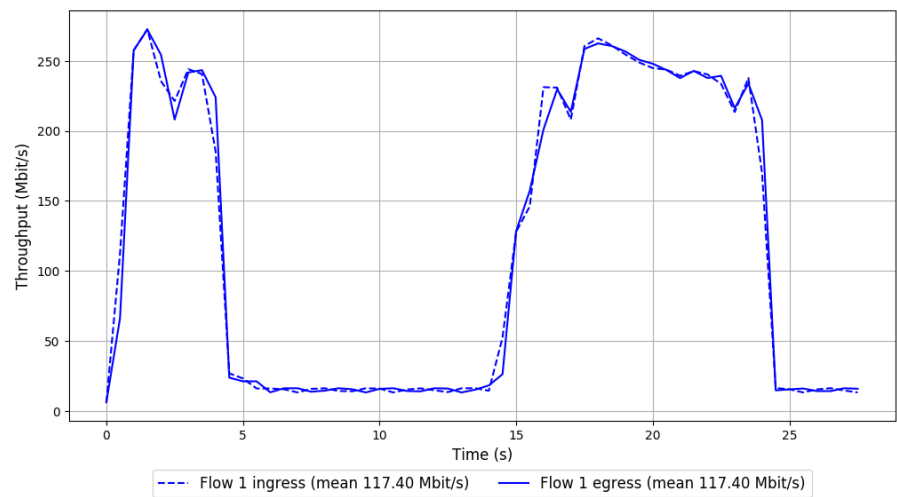


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 11:20:57
End at: 2017-09-21 11:21:27

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.40 Mbit/s
95th percentile per-packet one-way delay: 87.595 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.40 Mbit/s
95th percentile per-packet one-way delay: 87.595 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-21 11:31:37

End at: 2017-09-21 11:32:07

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.92 Mbit/s

95th percentile per-packet one-way delay: 87.180 ms

Loss rate: 0.00%

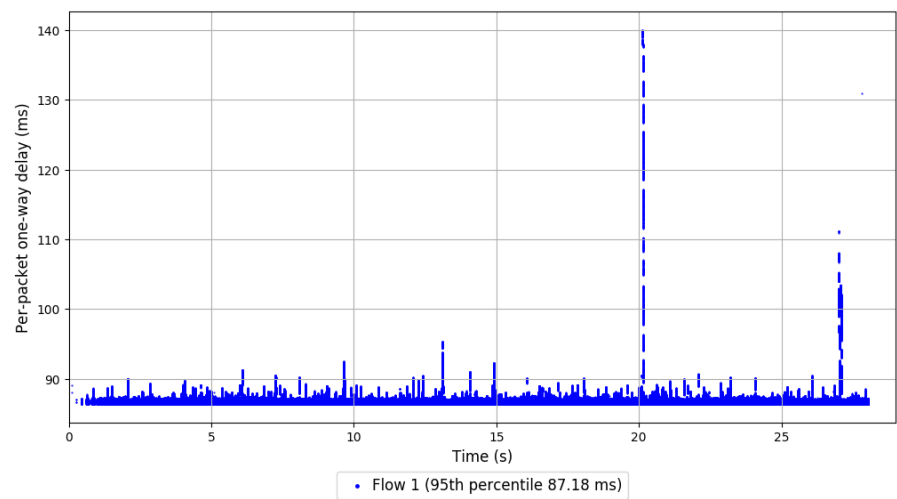
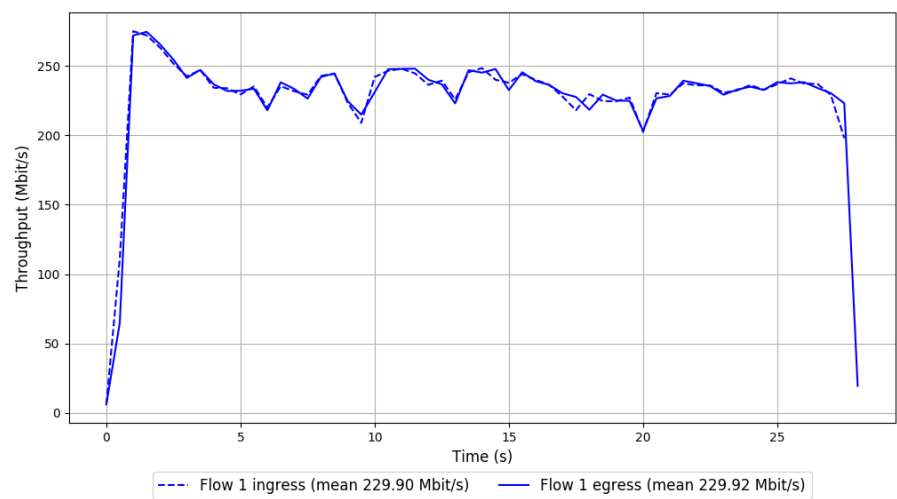
-- Flow 1:

Average throughput: 229.92 Mbit/s

95th percentile per-packet one-way delay: 87.180 ms

Loss rate: 0.00%

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

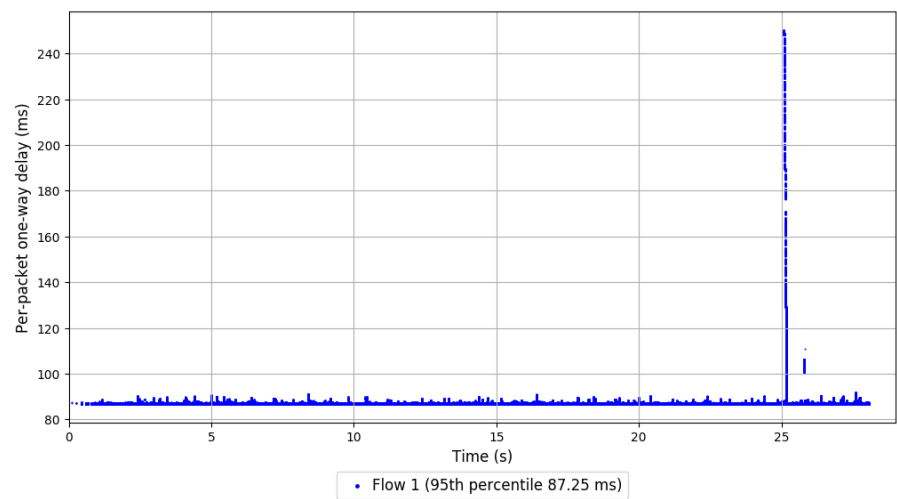
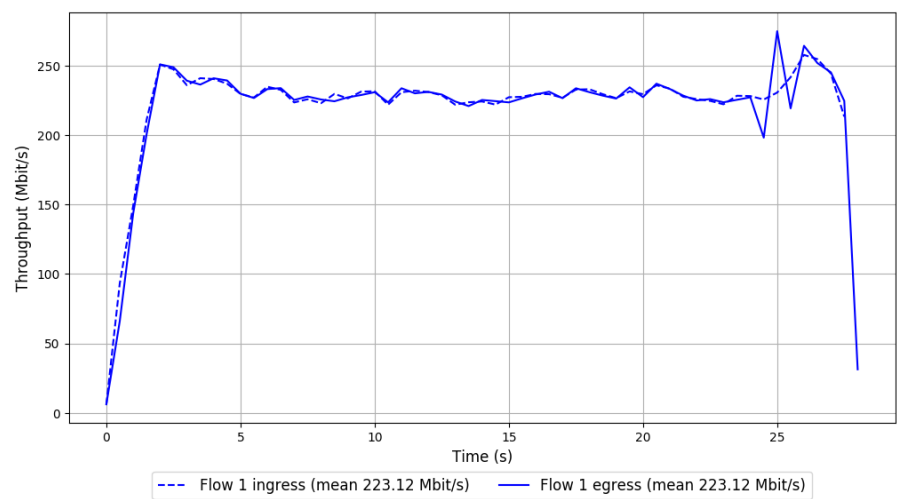


```
Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 11:42:26
End at: 2017-09-21 11:42:56

# Below is generated by plot.py at 2017-09-21 14:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.12 Mbit/s
95th percentile per-packet one-way delay: 87.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.12 Mbit/s
95th percentile per-packet one-way delay: 87.249 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 11:53:17

End at: 2017-09-21 11:53:47

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.25 Mbit/s

95th percentile per-packet one-way delay: 87.383 ms

Loss rate: 0.00%

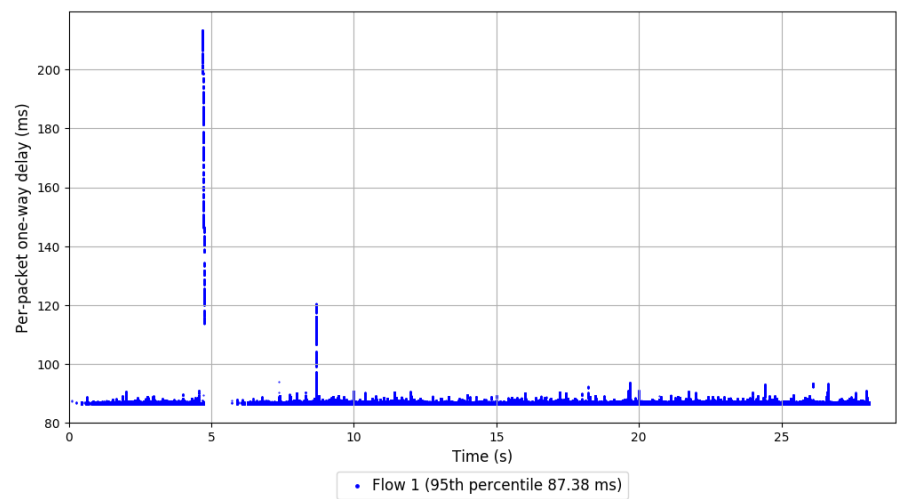
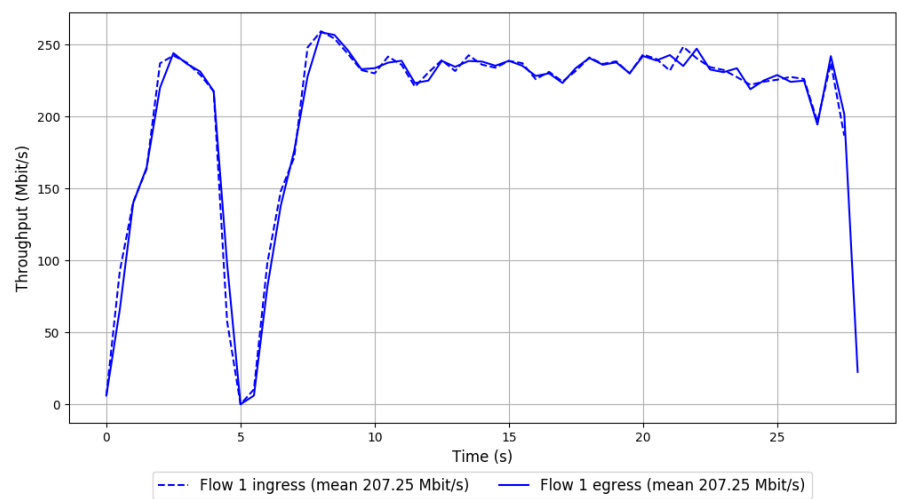
-- Flow 1:

Average throughput: 207.25 Mbit/s

95th percentile per-packet one-way delay: 87.383 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-21 12:04:07

End at: 2017-09-21 12:04:37

Below is generated by plot.py at 2017-09-21 14:03:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.79 Mbit/s

95th percentile per-packet one-way delay: 87.553 ms

Loss rate: 0.00%

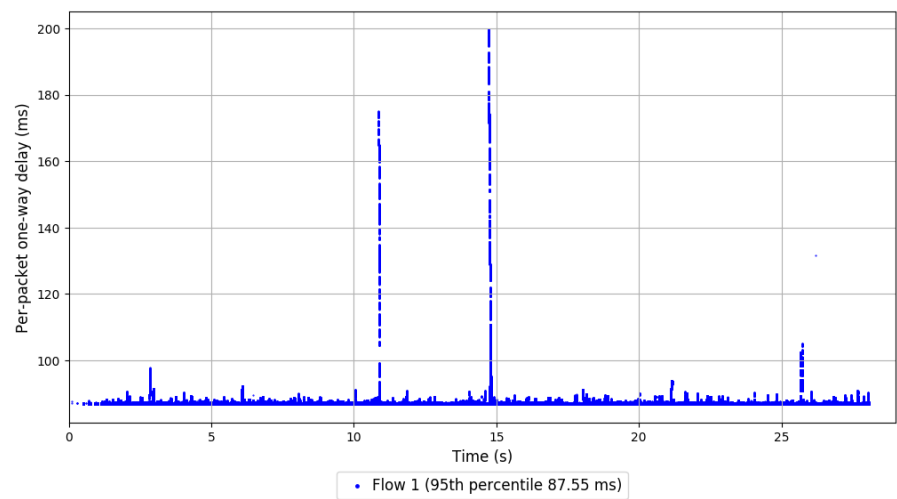
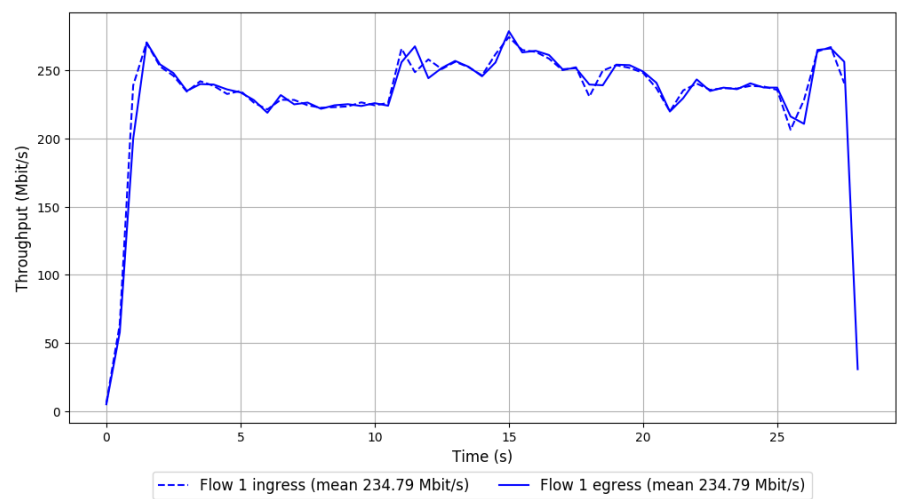
-- Flow 1:

Average throughput: 234.79 Mbit/s

95th percentile per-packet one-way delay: 87.553 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 12:14:48

End at: 2017-09-21 12:15:18

Below is generated by plot.py at 2017-09-21 14:04:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.68 Mbit/s

95th percentile per-packet one-way delay: 87.492 ms

Loss rate: 0.00%

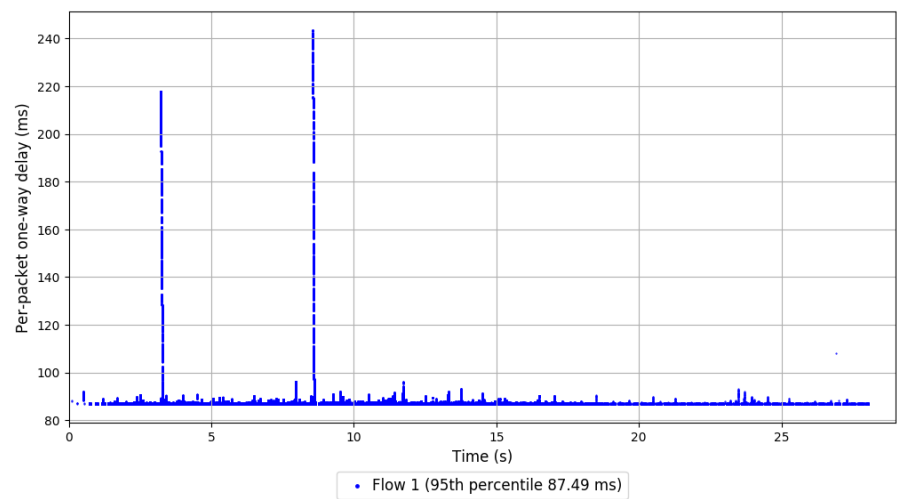
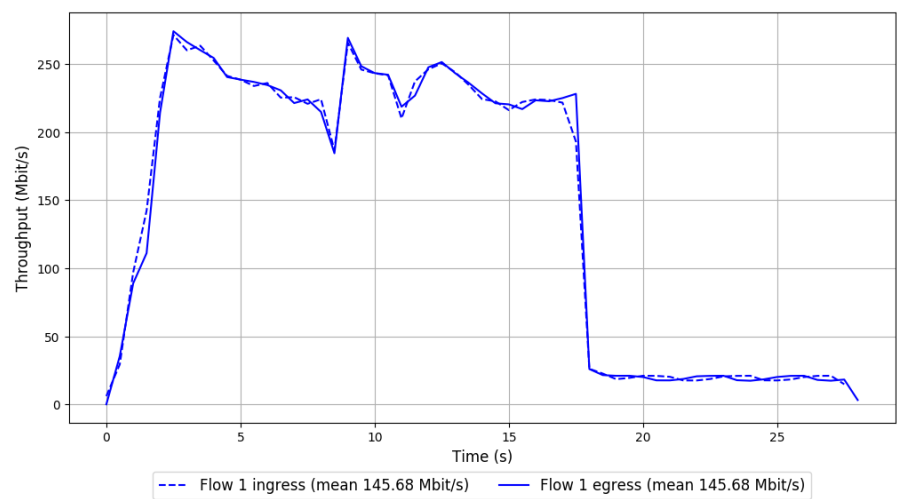
-- Flow 1:

Average throughput: 145.68 Mbit/s

95th percentile per-packet one-way delay: 87.492 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 12:25:35

End at: 2017-09-21 12:26:05

Below is generated by plot.py at 2017-09-21 14:07:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.14 Mbit/s

95th percentile per-packet one-way delay: 87.421 ms

Loss rate: 0.00%

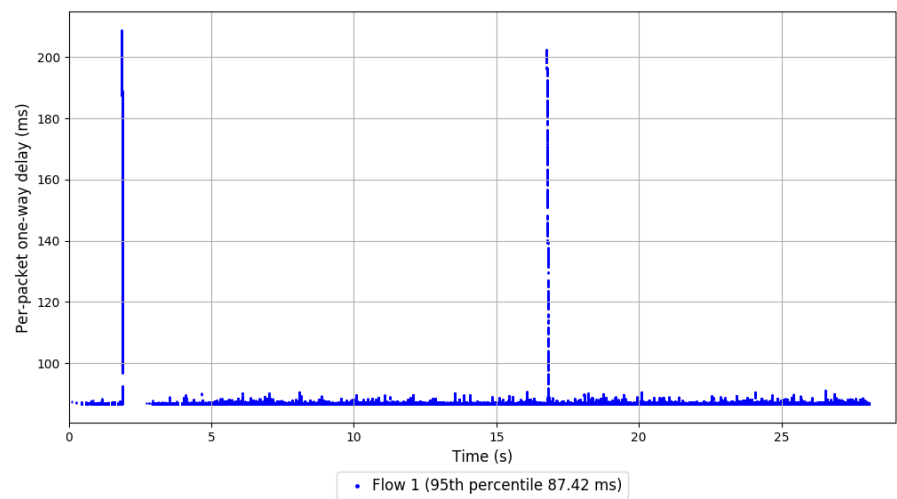
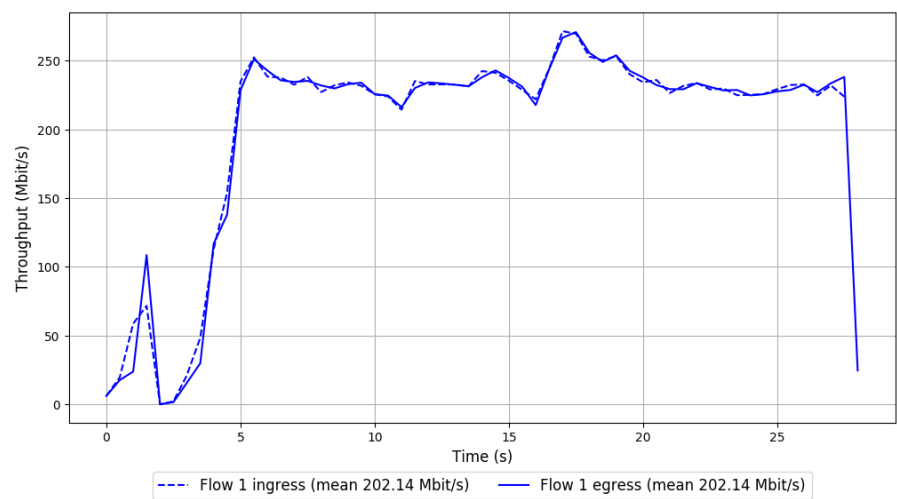
-- Flow 1:

Average throughput: 202.14 Mbit/s

95th percentile per-packet one-way delay: 87.421 ms

Loss rate: 0.00%

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

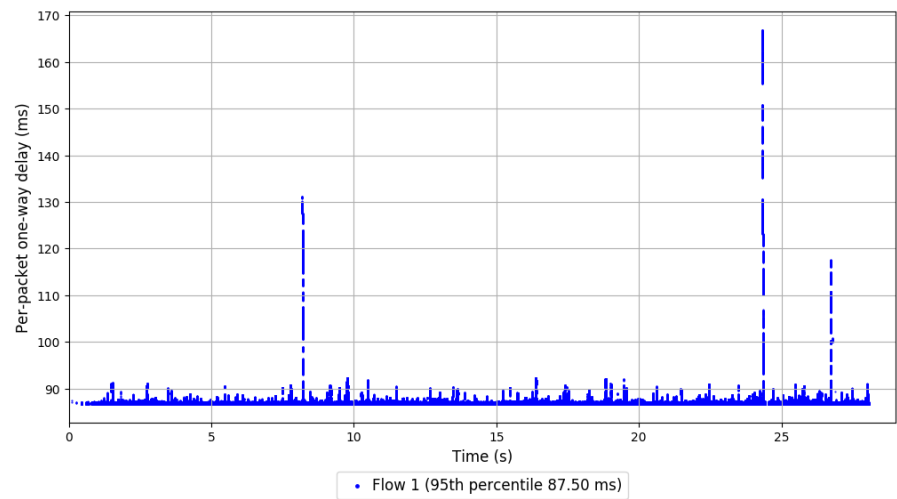
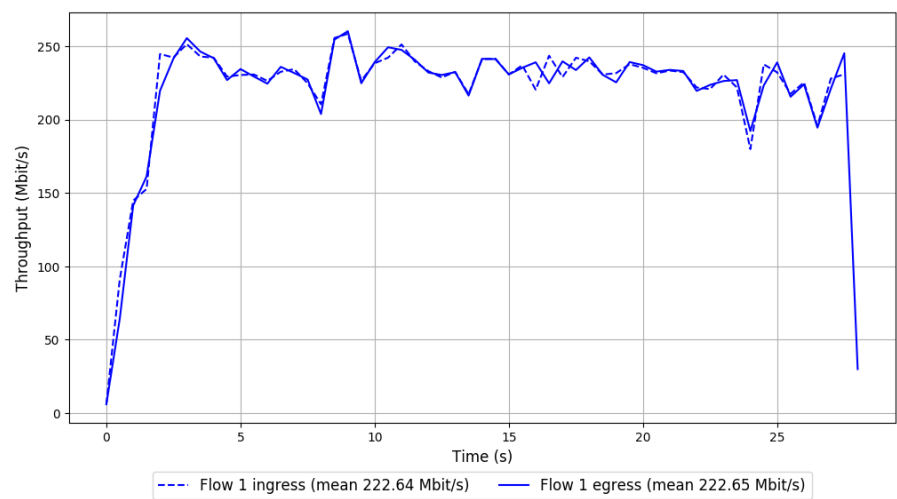


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 12:36:43
End at: 2017-09-21 12:37:13

# Below is generated by plot.py at 2017-09-21 14:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.65 Mbit/s
95th percentile per-packet one-way delay: 87.495 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.65 Mbit/s
95th percentile per-packet one-way delay: 87.495 ms
Loss rate: 0.00%
```

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

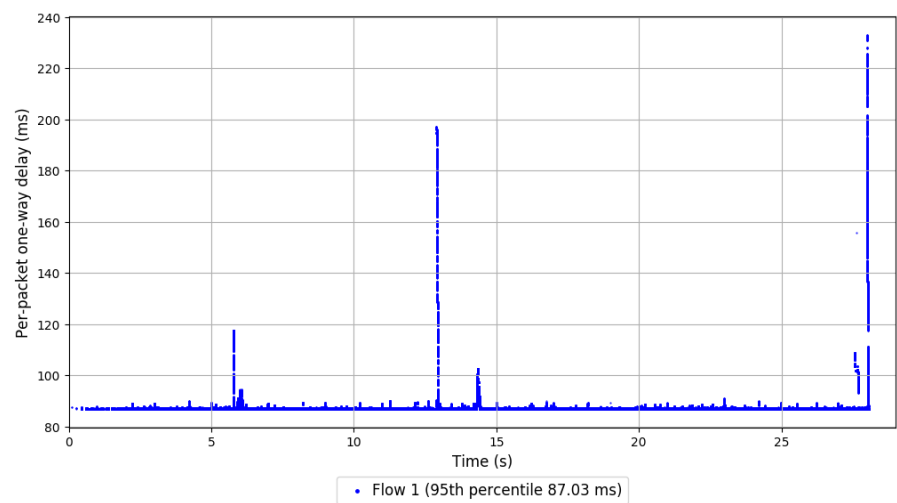
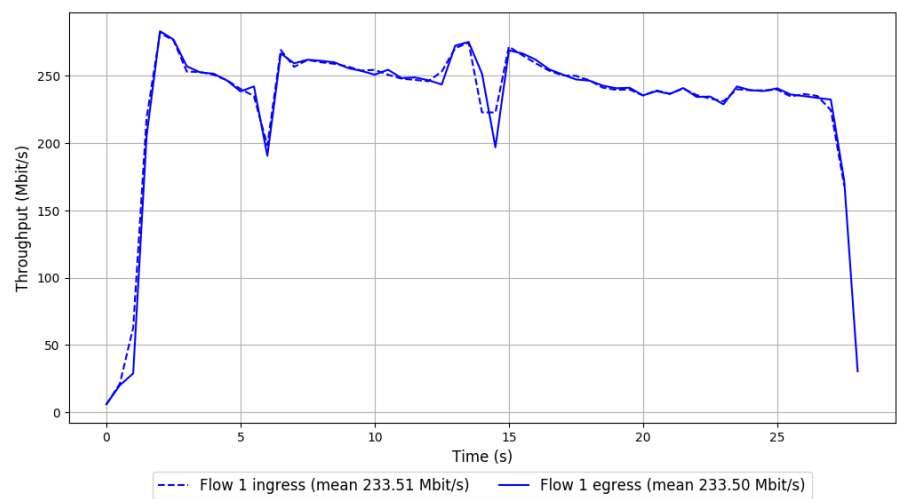


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 12:47:39
End at: 2017-09-21 12:48:09

# Below is generated by plot.py at 2017-09-21 14:10:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.50 Mbit/s
95th percentile per-packet one-way delay: 87.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.50 Mbit/s
95th percentile per-packet one-way delay: 87.034 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

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

End at: 2017-09-21 11:15:33

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 87.919 ms

Loss rate: 0.35%

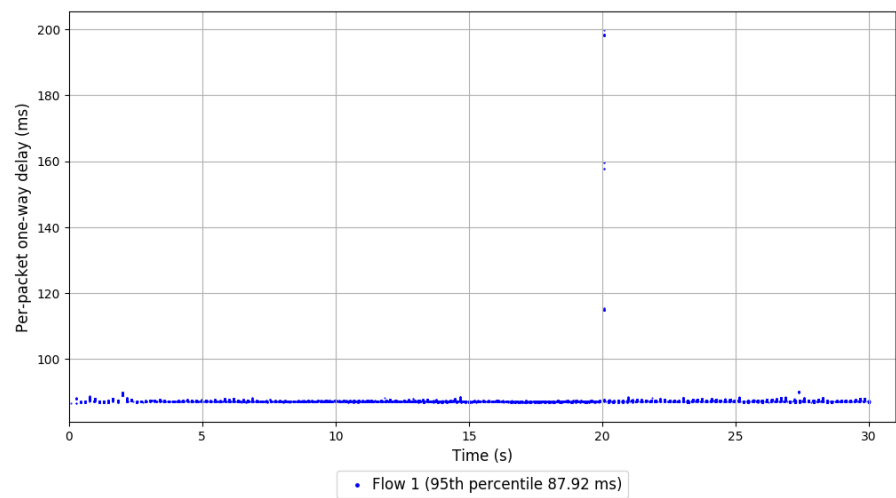
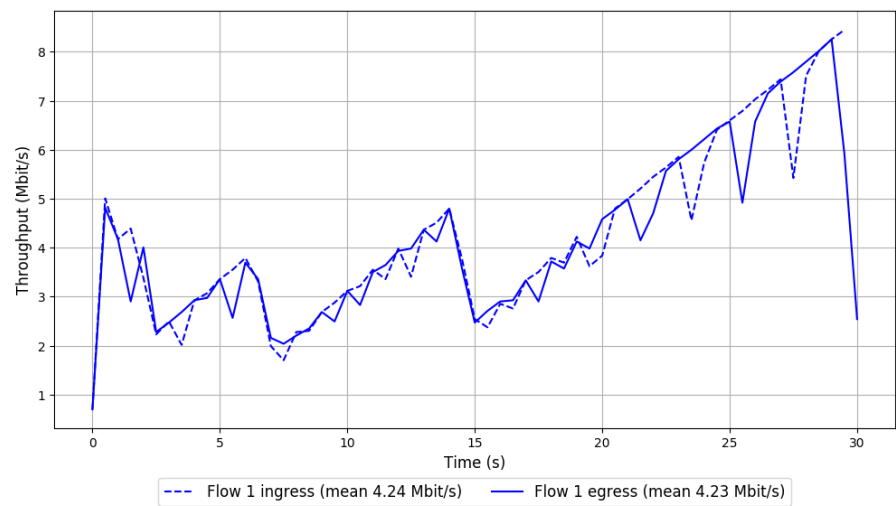
-- Flow 1:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 87.919 ms

Loss rate: 0.35%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 11:25:46

End at: 2017-09-21 11:26:16

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.49 Mbit/s

95th percentile per-packet one-way delay: 88.534 ms

Loss rate: 0.25%

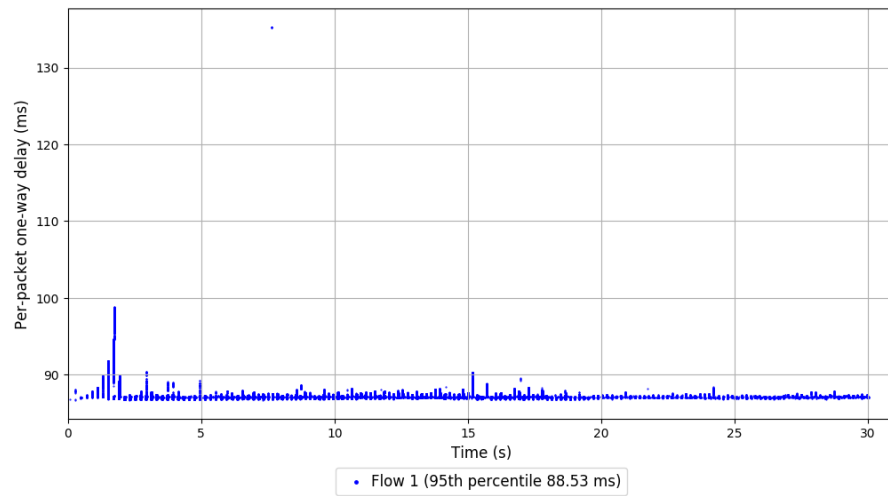
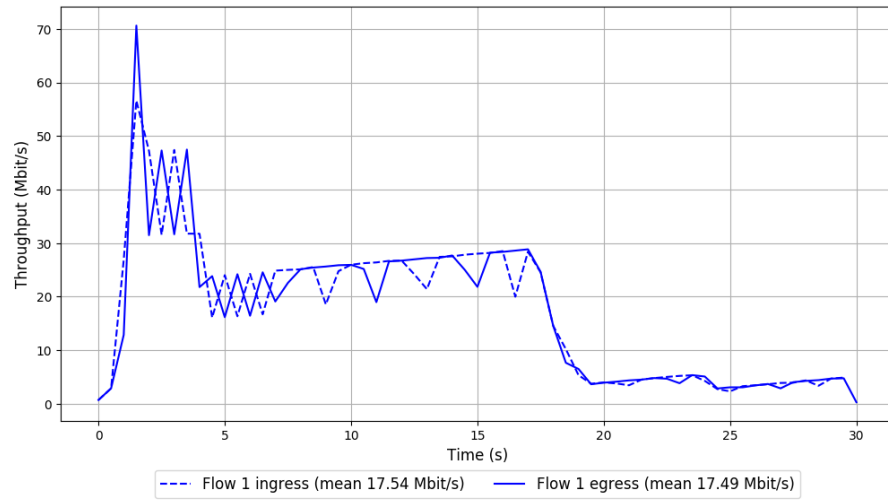
-- Flow 1:

Average throughput: 17.49 Mbit/s

95th percentile per-packet one-way delay: 88.534 ms

Loss rate: 0.25%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 11:36:36

End at: 2017-09-21 11:37:06

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 87.728 ms

Loss rate: 0.04%

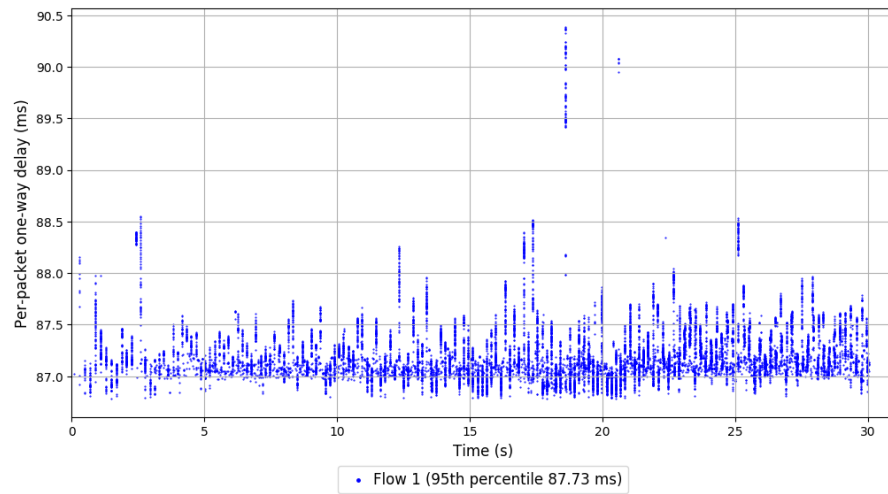
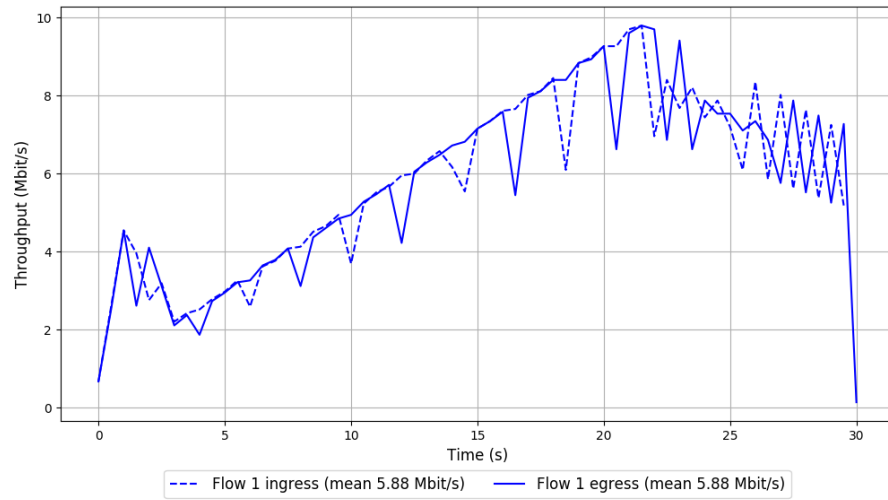
-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 87.728 ms

Loss rate: 0.04%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 11:47:22

End at: 2017-09-21 11:47:52

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 88.461 ms

Loss rate: 0.14%

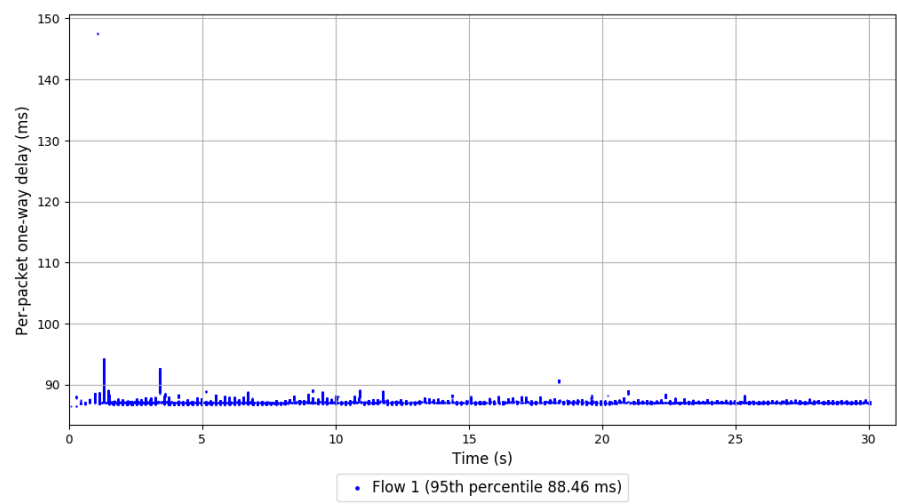
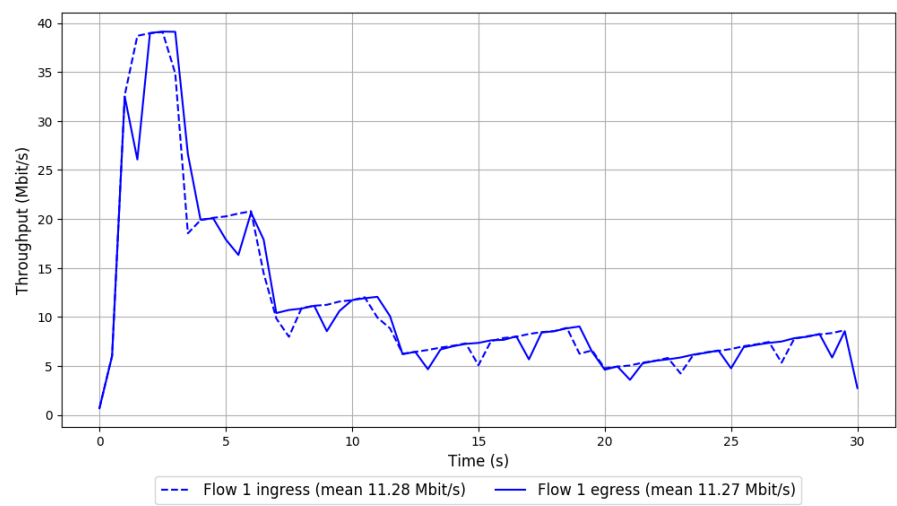
-- Flow 1:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 88.461 ms

Loss rate: 0.14%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

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

End at: 2017-09-21 11:58:41

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 87.432 ms

Loss rate: 0.15%

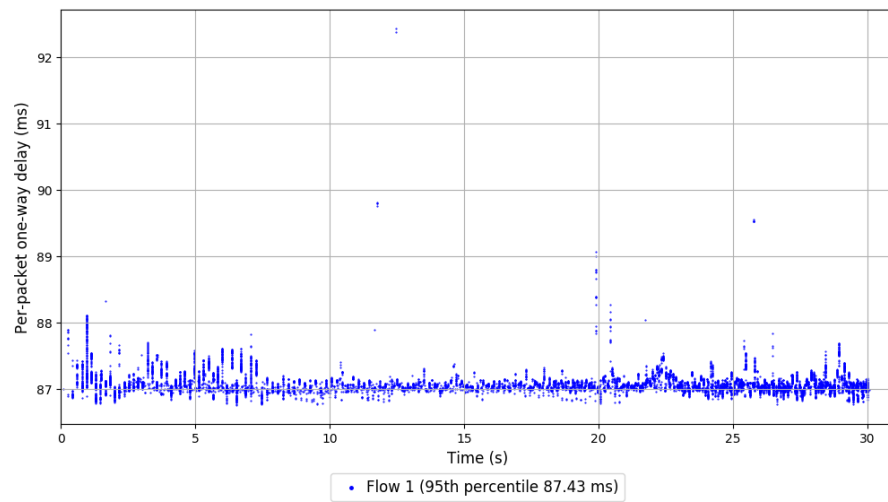
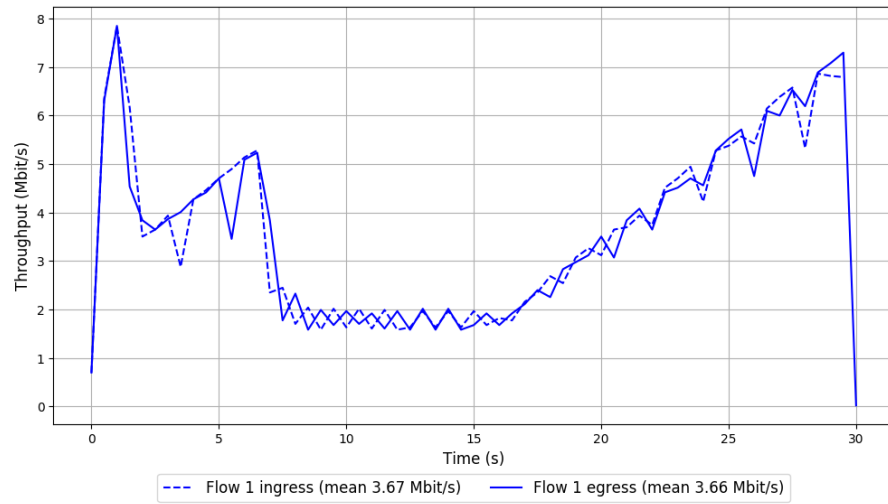
-- Flow 1:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 87.432 ms

Loss rate: 0.15%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

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

End at: 2017-09-21 12:09:36

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 87.694 ms

Loss rate: 0.81%

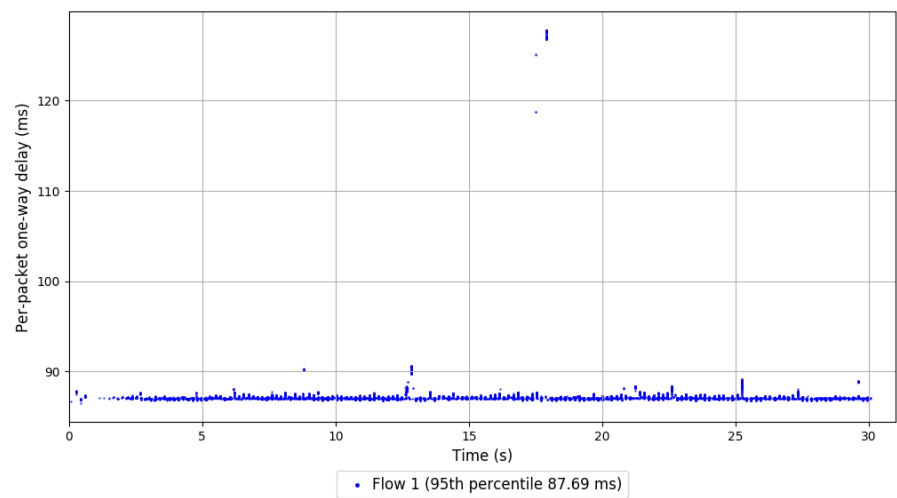
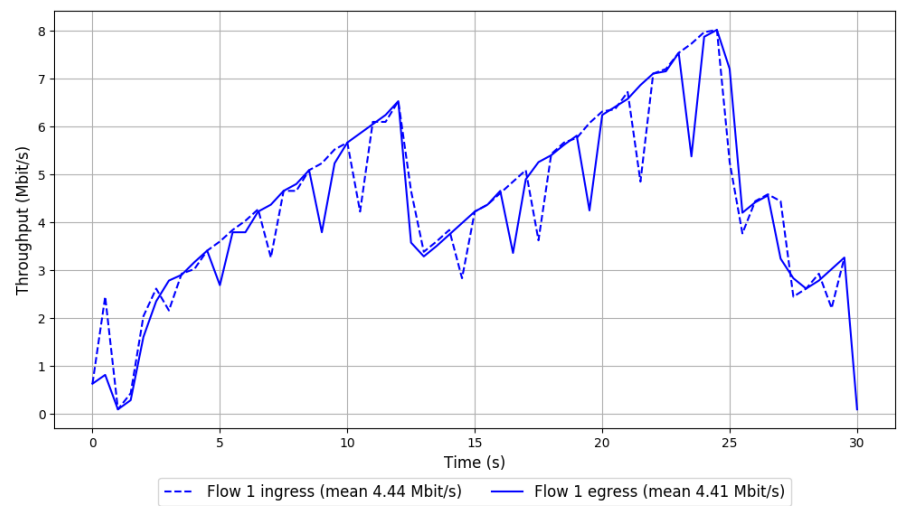
-- Flow 1:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 87.694 ms

Loss rate: 0.81%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 12:19:40

End at: 2017-09-21 12:20:10

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 88.763 ms

Loss rate: 0.01%

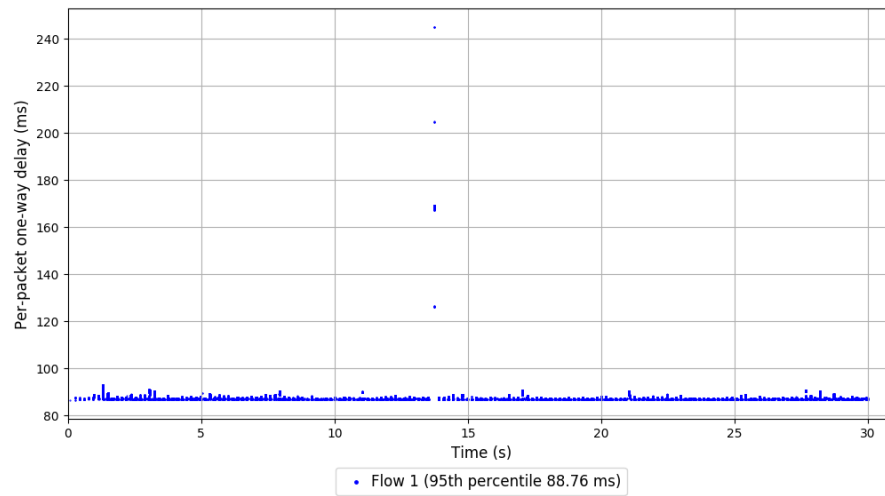
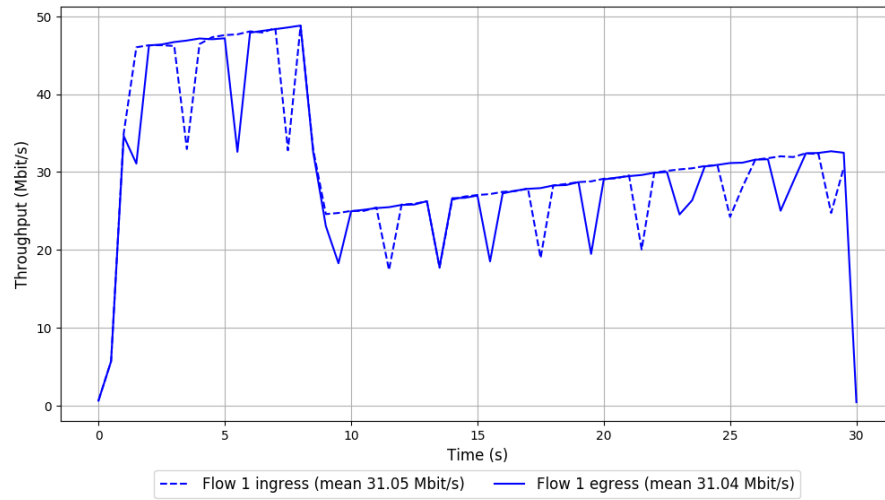
-- Flow 1:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 88.763 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 12:30:39

End at: 2017-09-21 12:31:10

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.12 Mbit/s

95th percentile per-packet one-way delay: 89.329 ms

Loss rate: 0.00%

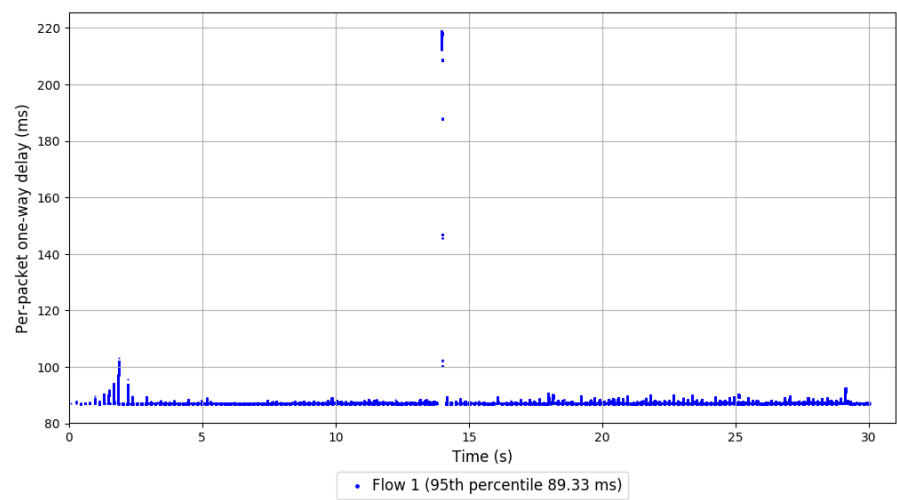
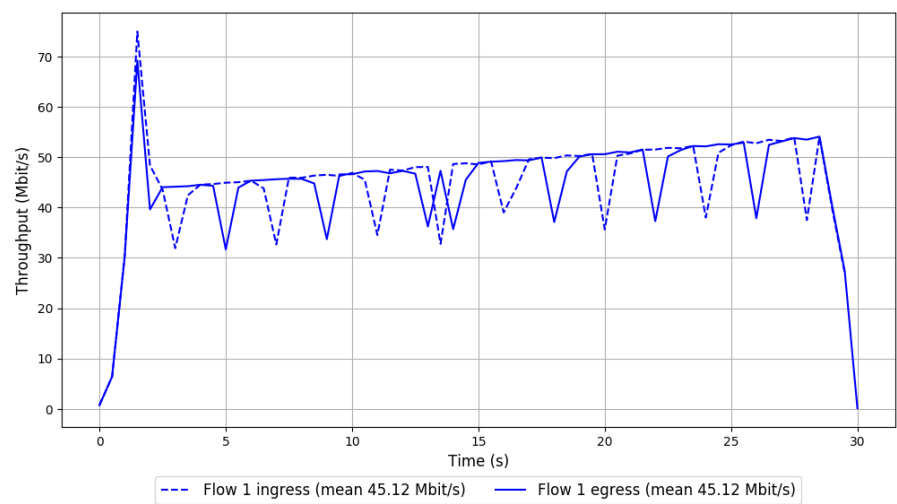
-- Flow 1:

Average throughput: 45.12 Mbit/s

95th percentile per-packet one-way delay: 89.329 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 12:41:43

End at: 2017-09-21 12:42:13

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 88.997 ms

Loss rate: 0.03%

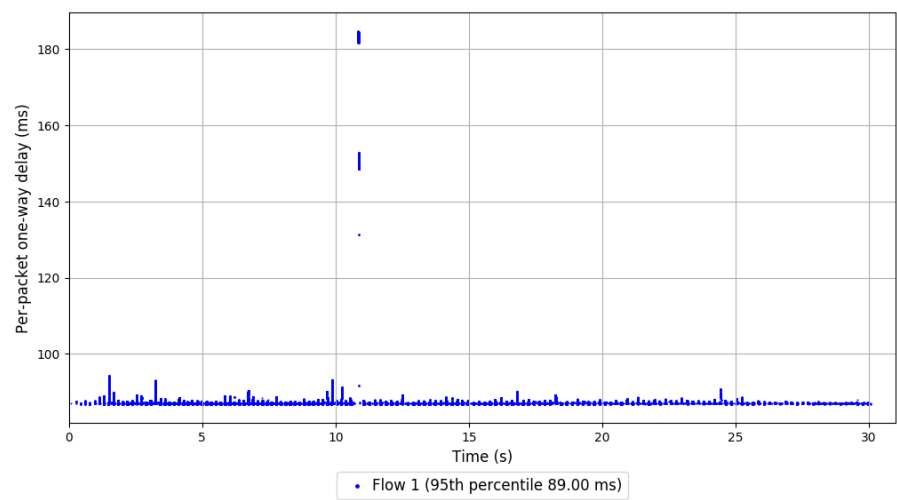
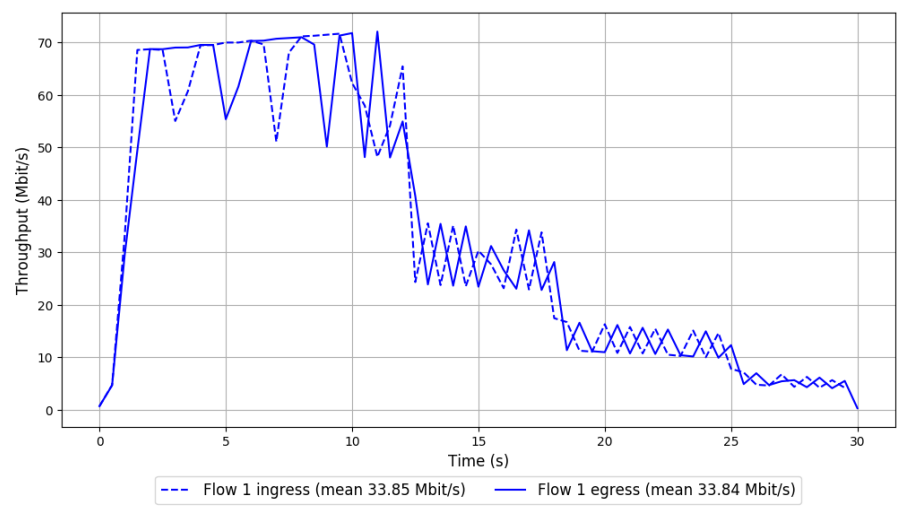
-- Flow 1:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 88.997 ms

Loss rate: 0.03%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 12:52:39

End at: 2017-09-21 12:53:09

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 87.693 ms

Loss rate: 0.93%

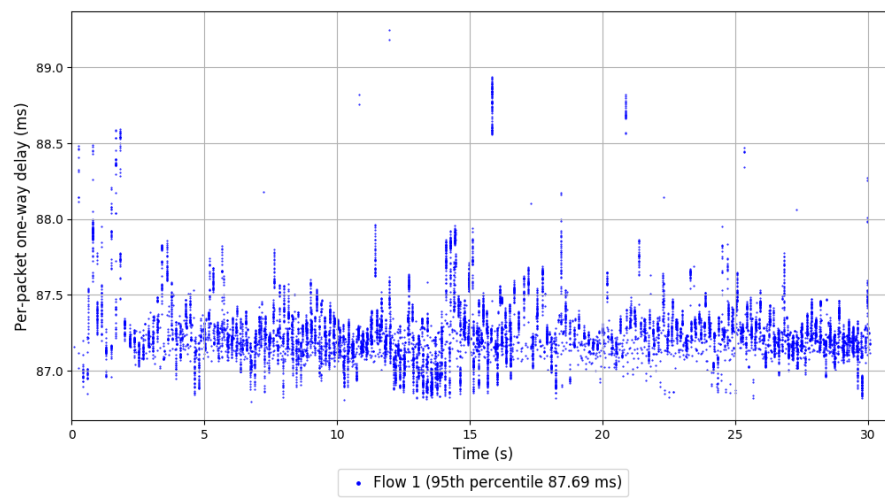
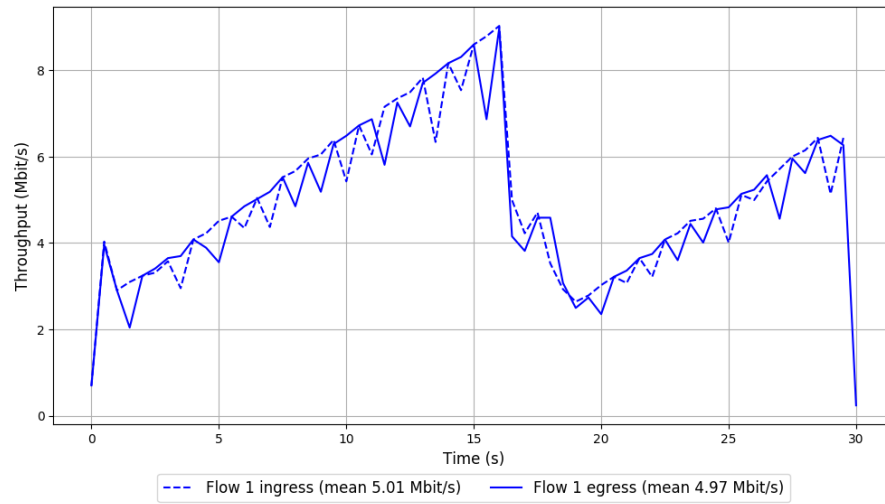
-- Flow 1:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 87.693 ms

Loss rate: 0.93%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 11:17:02

End at: 2017-09-21 11:17:32

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.04 Mbit/s

95th percentile per-packet one-way delay: 165.403 ms

Loss rate: 0.10%

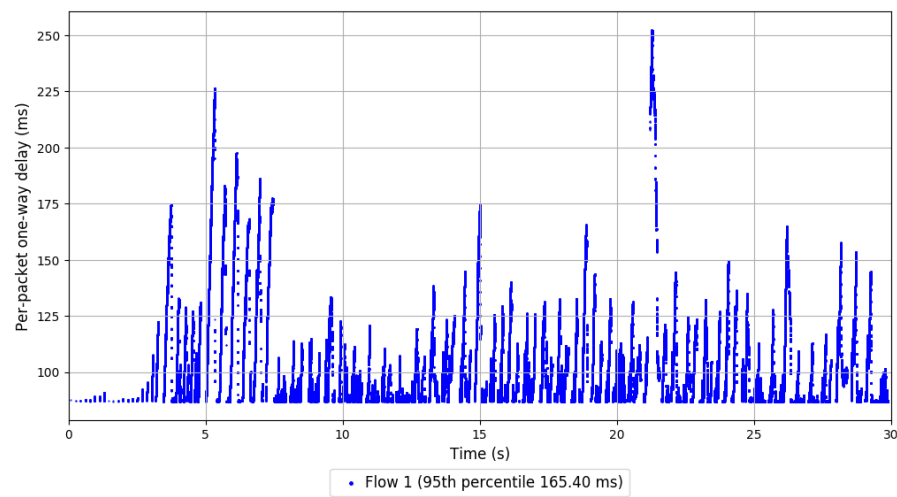
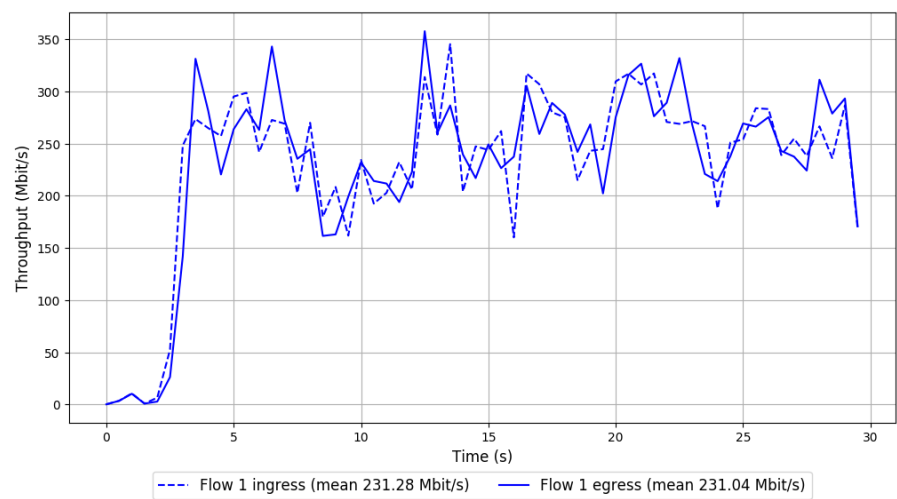
-- Flow 1:

Average throughput: 231.04 Mbit/s

95th percentile per-packet one-way delay: 165.403 ms

Loss rate: 0.10%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 11:27:46

End at: 2017-09-21 11:28:16

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.18 Mbit/s

95th percentile per-packet one-way delay: 132.849 ms

Loss rate: 0.03%

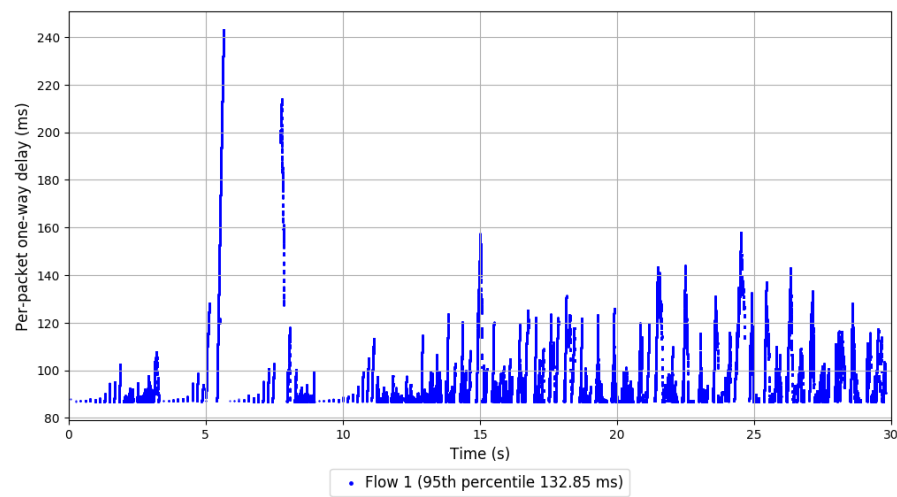
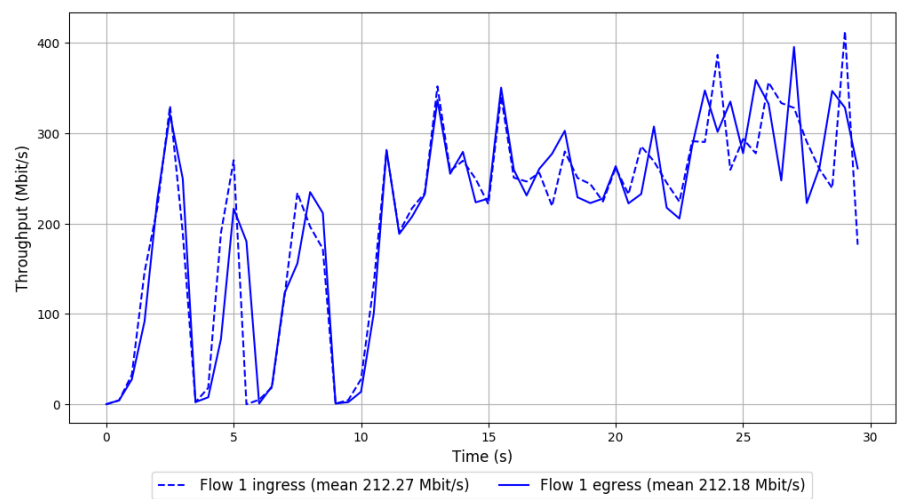
-- Flow 1:

Average throughput: 212.18 Mbit/s

95th percentile per-packet one-way delay: 132.849 ms

Loss rate: 0.03%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-21 11:38:36

End at: 2017-09-21 11:39:06

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.47 Mbit/s

95th percentile per-packet one-way delay: 197.687 ms

Loss rate: 0.80%

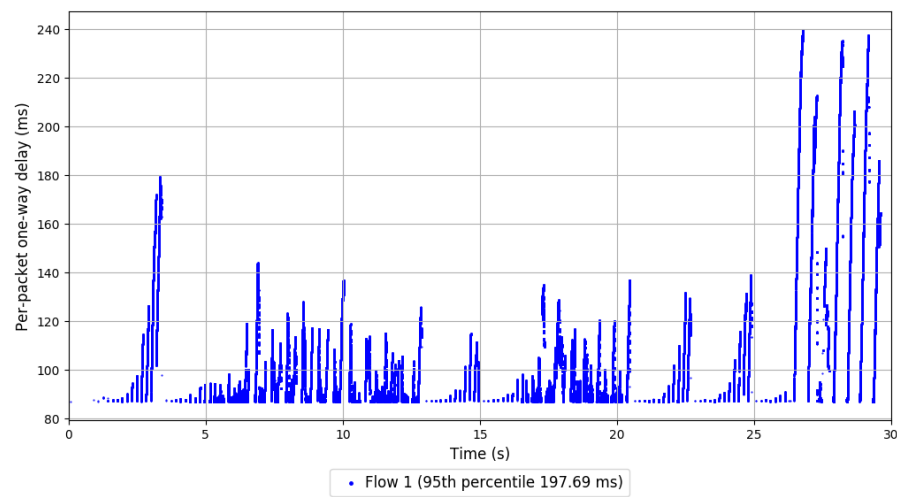
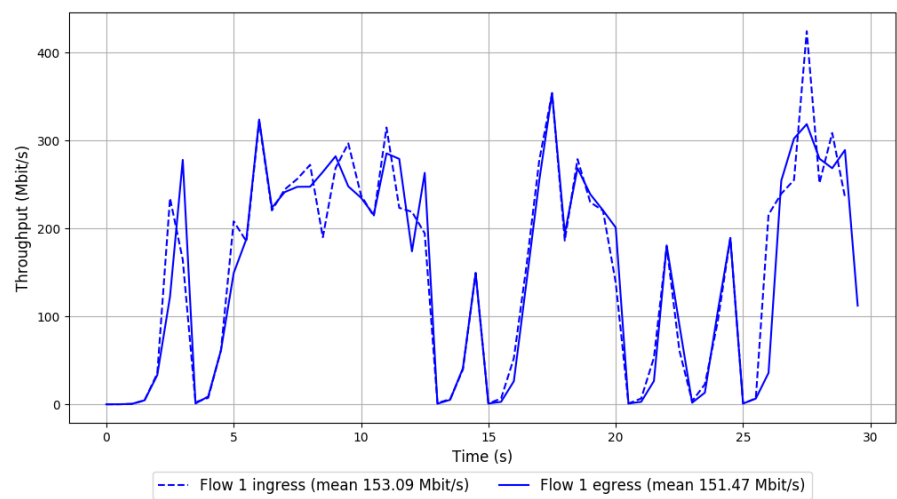
-- Flow 1:

Average throughput: 151.47 Mbit/s

95th percentile per-packet one-way delay: 197.687 ms

Loss rate: 0.80%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-21 11:49:22

End at: 2017-09-21 11:49:52

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.93 Mbit/s

95th percentile per-packet one-way delay: 127.135 ms

Loss rate: 0.04%

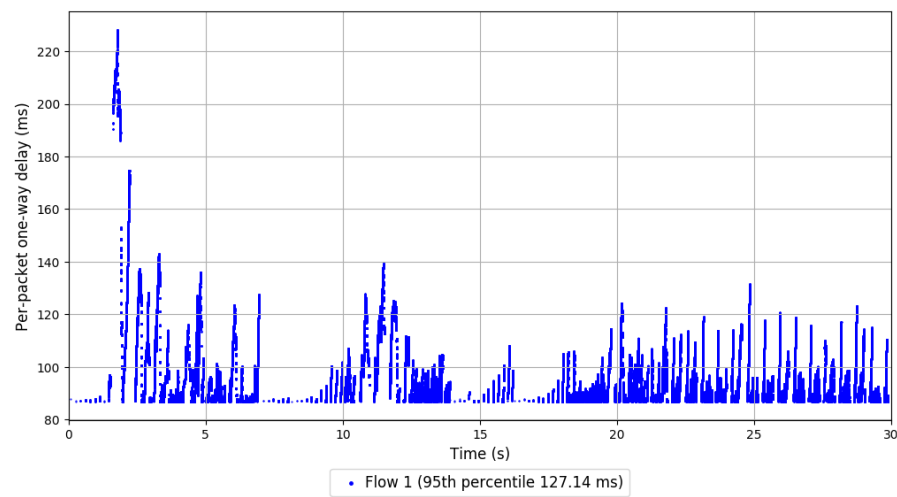
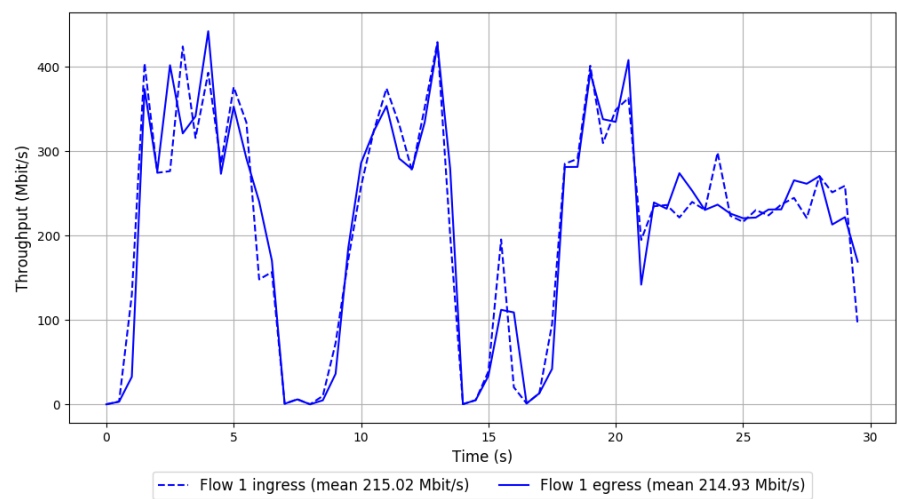
-- Flow 1:

Average throughput: 214.93 Mbit/s

95th percentile per-packet one-way delay: 127.135 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-21 12:00:10

End at: 2017-09-21 12:00:40

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.73 Mbit/s

95th percentile per-packet one-way delay: 191.390 ms

Loss rate: 0.22%

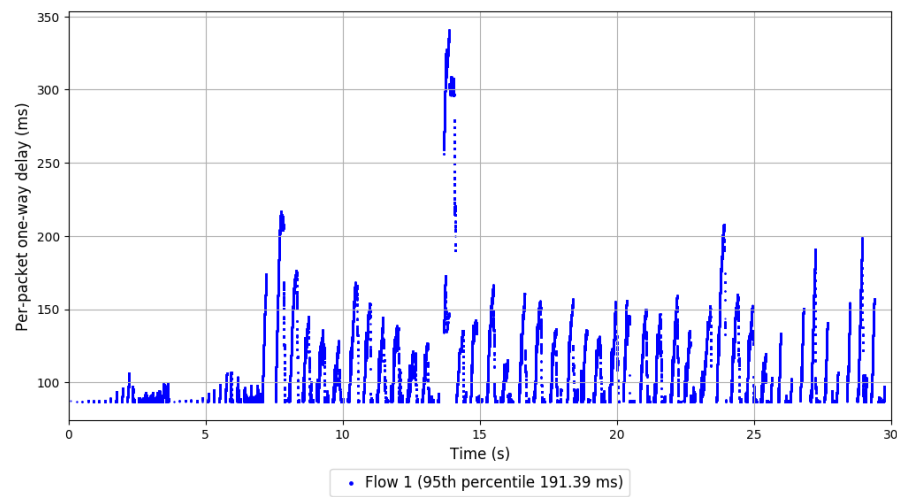
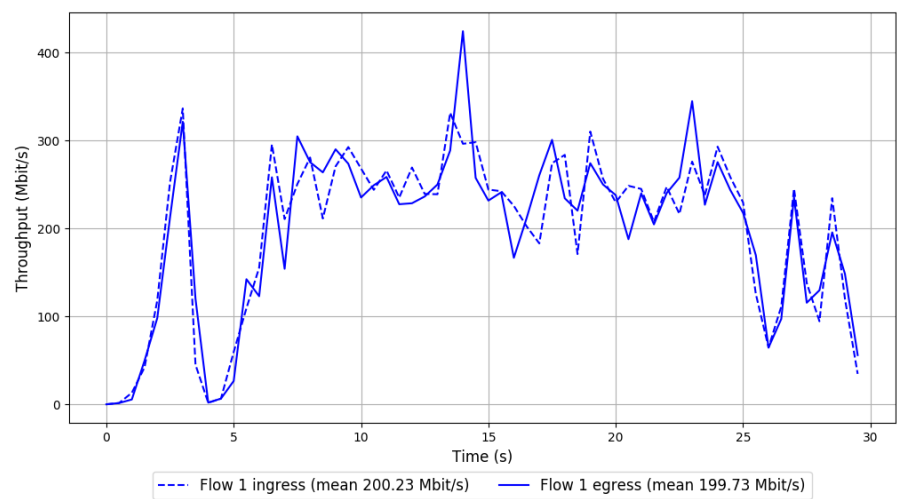
-- Flow 1:

Average throughput: 199.73 Mbit/s

95th percentile per-packet one-way delay: 191.390 ms

Loss rate: 0.22%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-21 12:11:05

End at: 2017-09-21 12:11:35

Below is generated by plot.py at 2017-09-21 14:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.76 Mbit/s

95th percentile per-packet one-way delay: 135.005 ms

Loss rate: 0.03%

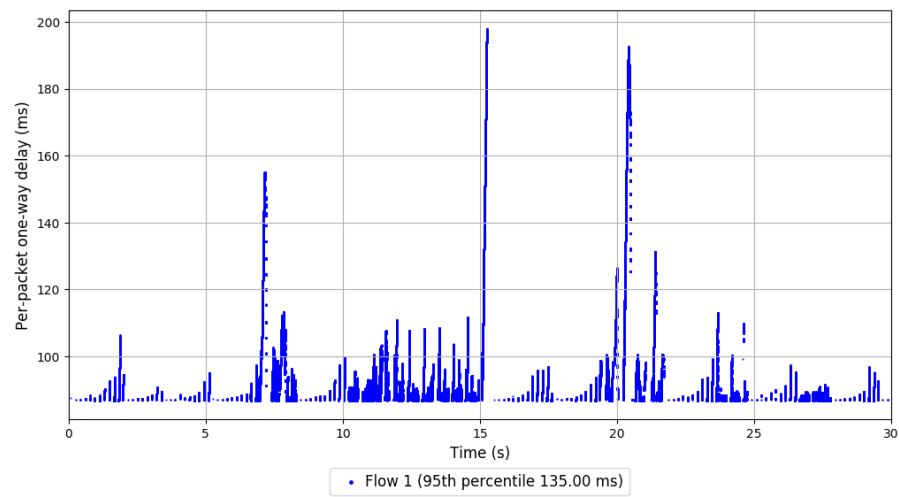
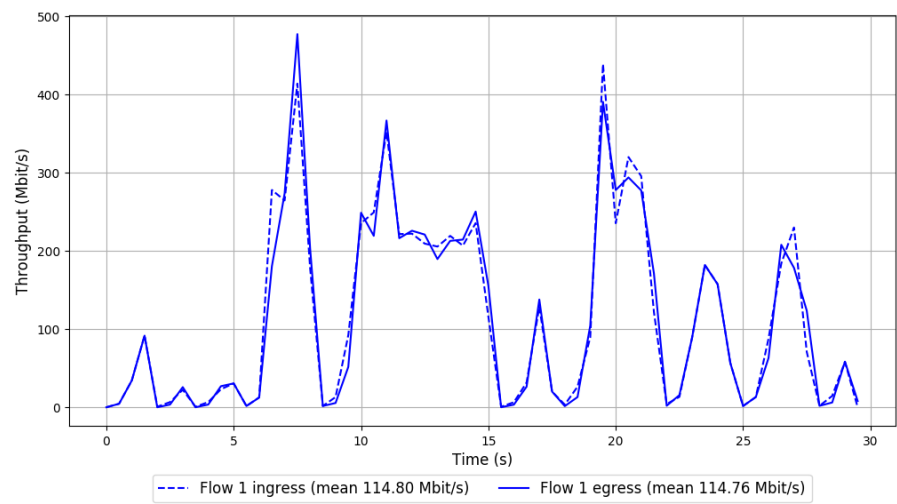
-- Flow 1:

Average throughput: 114.76 Mbit/s

95th percentile per-packet one-way delay: 135.005 ms

Loss rate: 0.03%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-21 12:21:40

End at: 2017-09-21 12:22:10

Below is generated by plot.py at 2017-09-21 14:11:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.83 Mbit/s

95th percentile per-packet one-way delay: 152.194 ms

Loss rate: 0.18%

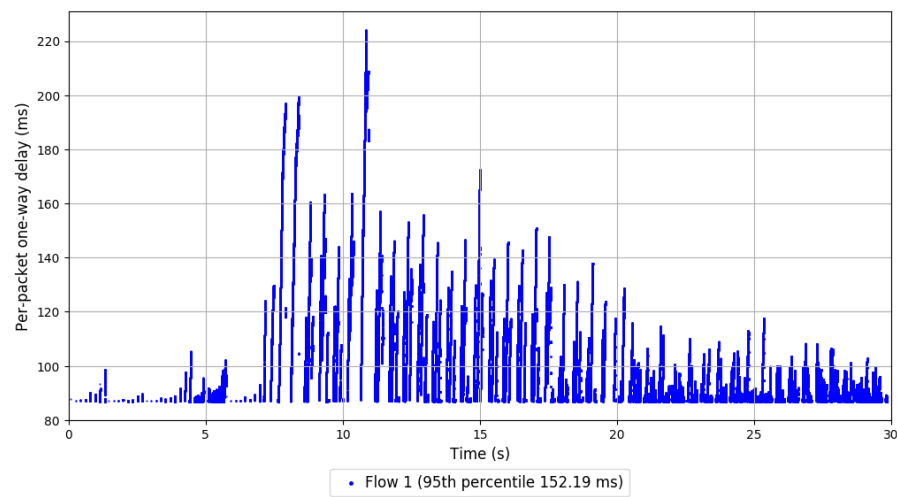
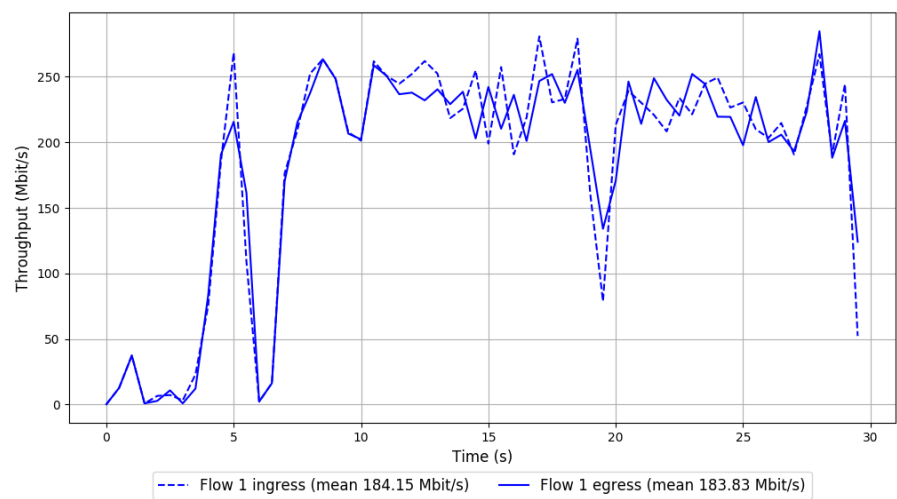
-- Flow 1:

Average throughput: 183.83 Mbit/s

95th percentile per-packet one-way delay: 152.194 ms

Loss rate: 0.18%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-21 12:32:41

End at: 2017-09-21 12:33:11

Below is generated by plot.py at 2017-09-21 14:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.03 Mbit/s

95th percentile per-packet one-way delay: 242.329 ms

Loss rate: 1.43%

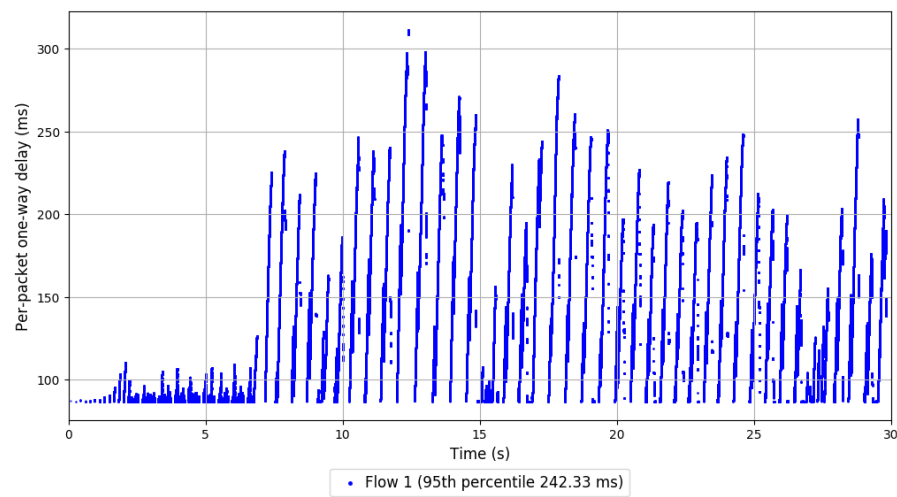
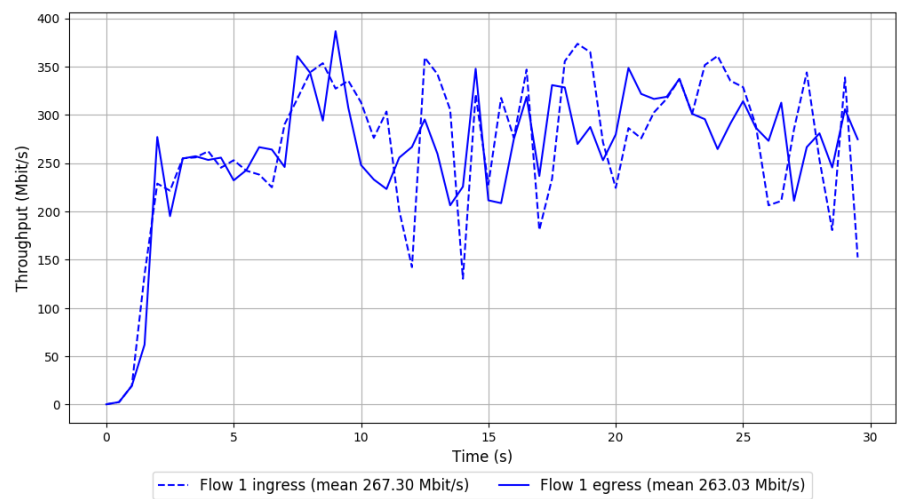
-- Flow 1:

Average throughput: 263.03 Mbit/s

95th percentile per-packet one-way delay: 242.329 ms

Loss rate: 1.43%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-21 12:43:43

End at: 2017-09-21 12:44:13

Below is generated by plot.py at 2017-09-21 14:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.01 Mbit/s

95th percentile per-packet one-way delay: 118.662 ms

Loss rate: 0.01%

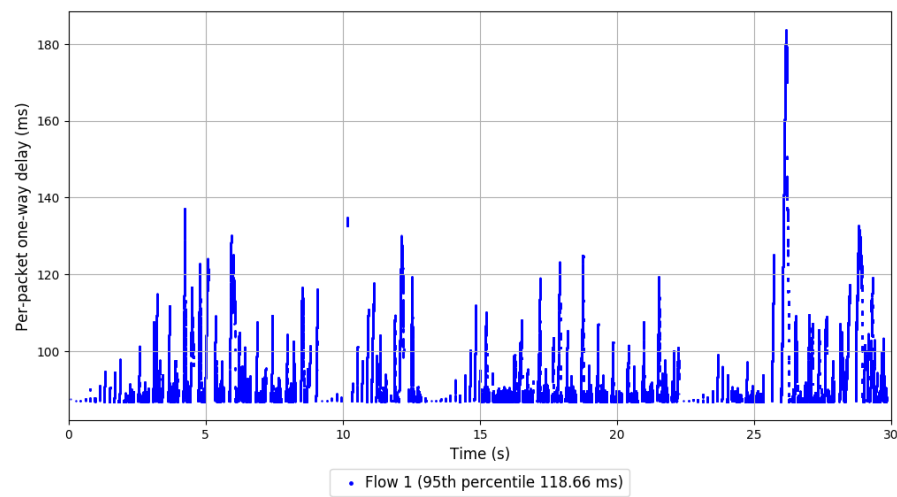
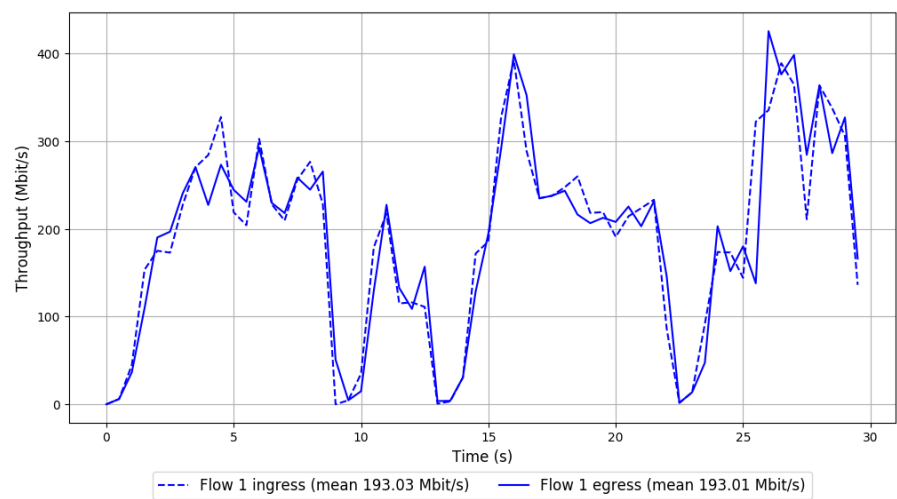
-- Flow 1:

Average throughput: 193.01 Mbit/s

95th percentile per-packet one-way delay: 118.662 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-21 12:54:38

End at: 2017-09-21 12:55:08

Below is generated by plot.py at 2017-09-21 14:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.04 Mbit/s

95th percentile per-packet one-way delay: 162.860 ms

Loss rate: 0.10%

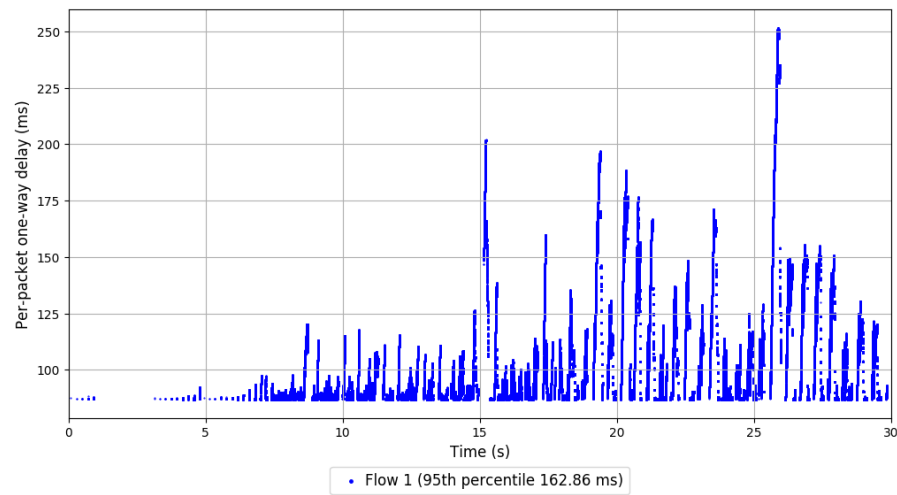
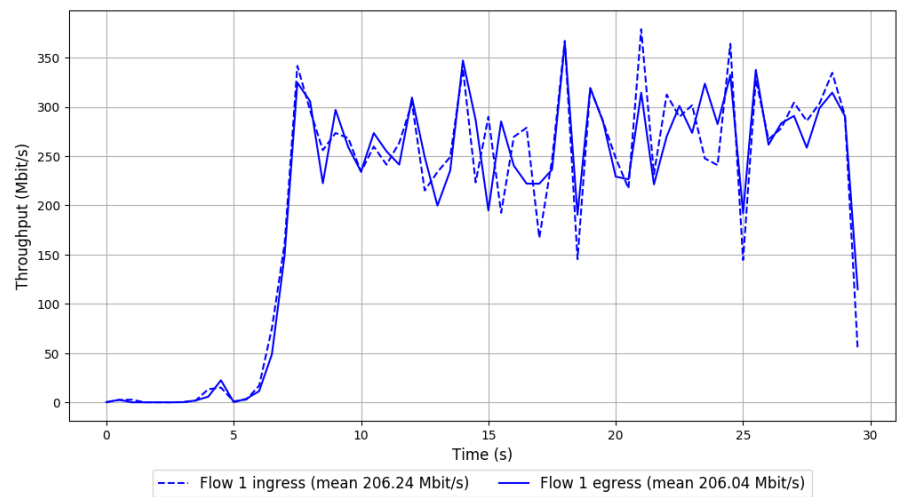
-- Flow 1:

Average throughput: 206.04 Mbit/s

95th percentile per-packet one-way delay: 162.860 ms

Loss rate: 0.10%

Run 10: Report of Verus — Data Link

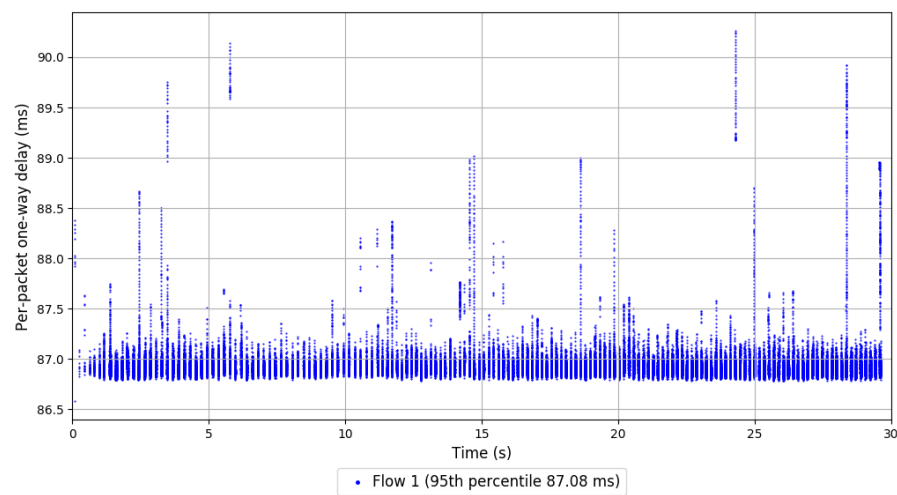
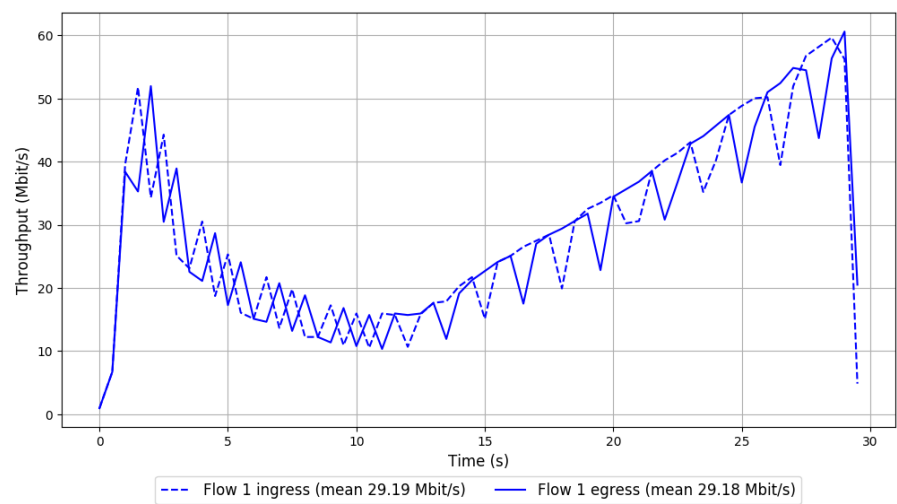


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 11:12:17
End at: 2017-09-21 11:12:47

# Below is generated by plot.py at 2017-09-21 14:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 87.083 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 87.083 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 11:22:48

End at: 2017-09-21 11:23:19

Below is generated by plot.py at 2017-09-21 14:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.74 Mbit/s

95th percentile per-packet one-way delay: 87.053 ms

Loss rate: 0.00%

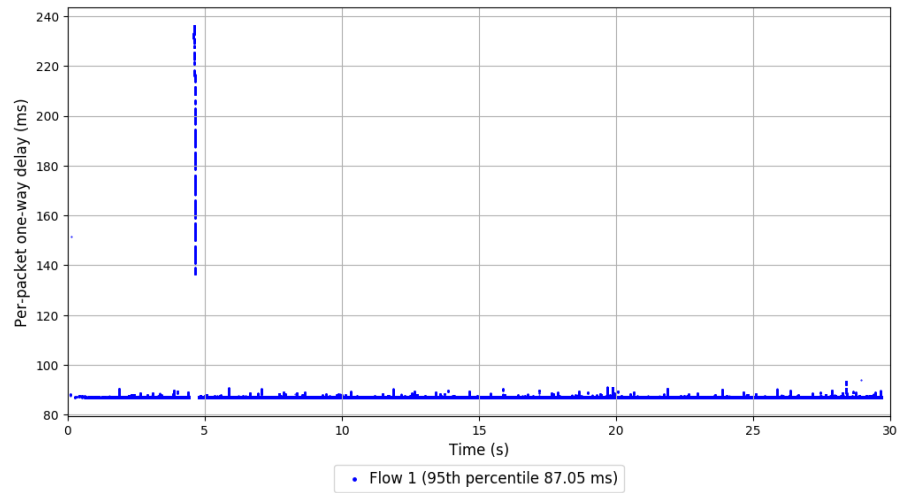
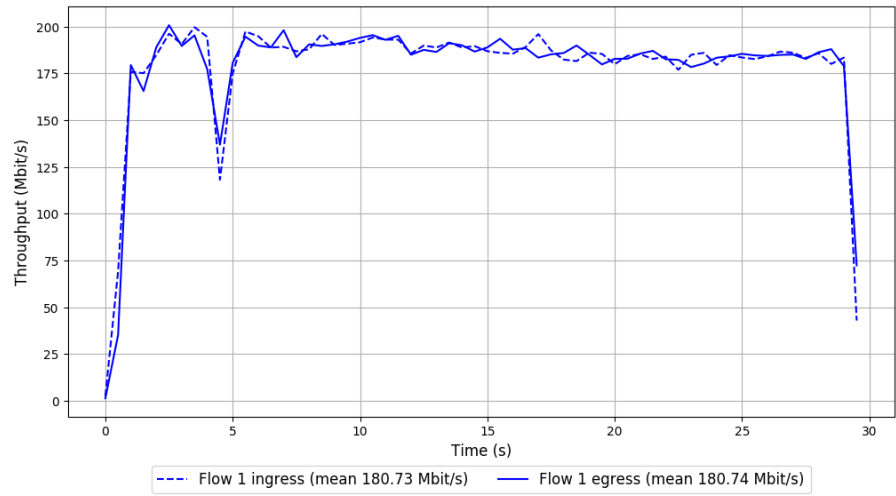
-- Flow 1:

Average throughput: 180.74 Mbit/s

95th percentile per-packet one-way delay: 87.053 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 11:33:38

End at: 2017-09-21 11:34:08

Below is generated by plot.py at 2017-09-21 14:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.44 Mbit/s

95th percentile per-packet one-way delay: 87.057 ms

Loss rate: 0.00%

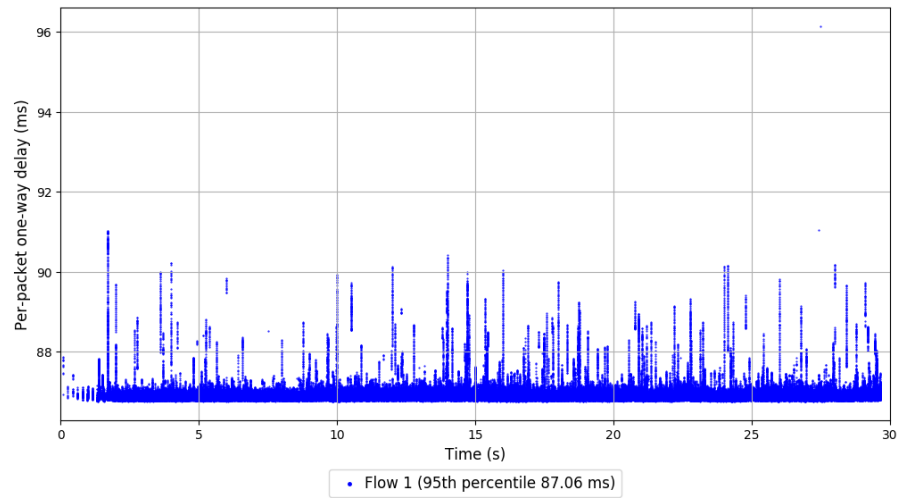
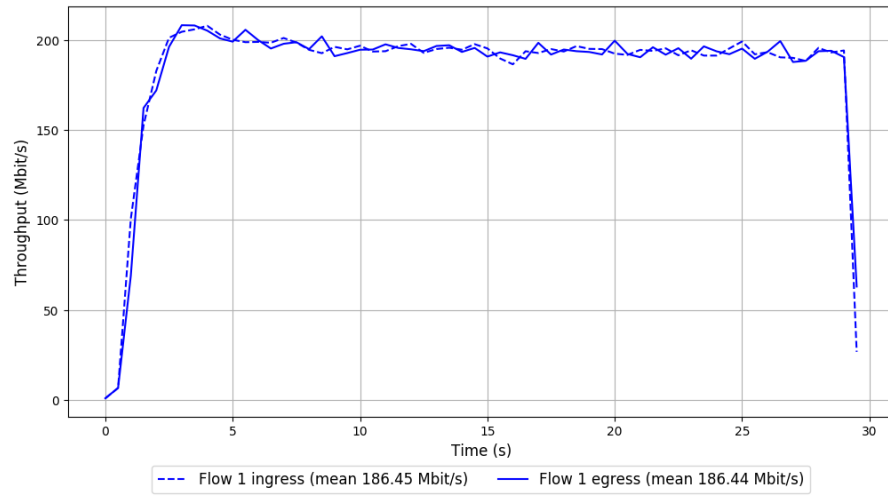
-- Flow 1:

Average throughput: 186.44 Mbit/s

95th percentile per-packet one-way delay: 87.057 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-21 11:44:28

End at: 2017-09-21 11:44:58

Below is generated by plot.py at 2017-09-21 14:13:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.27 Mbit/s

95th percentile per-packet one-way delay: 87.011 ms

Loss rate: 0.00%

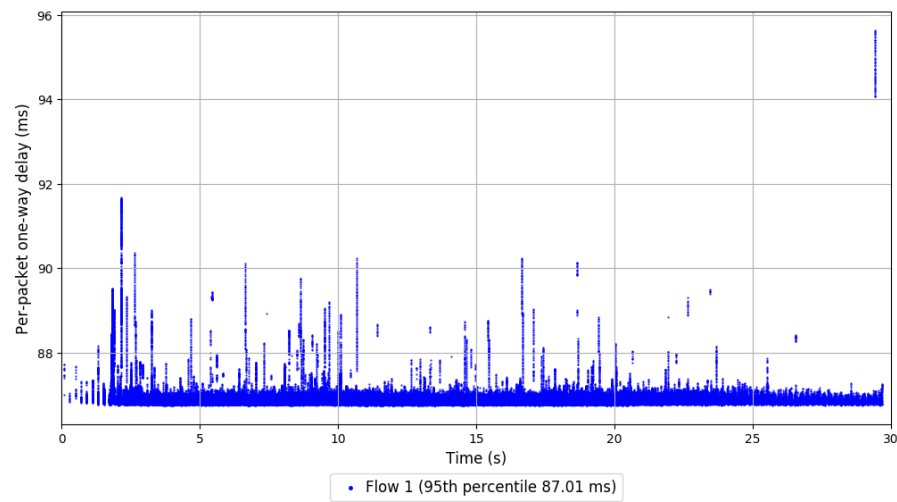
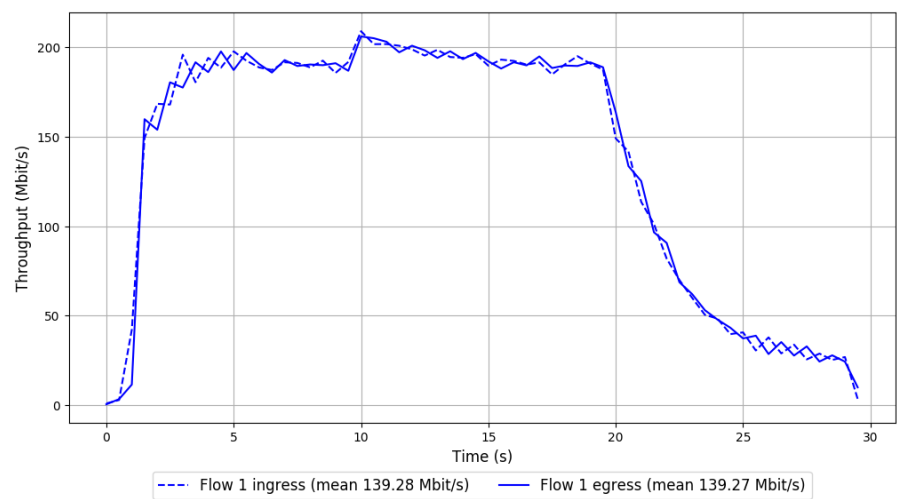
-- Flow 1:

Average throughput: 139.27 Mbit/s

95th percentile per-packet one-way delay: 87.011 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 11:55:14

End at: 2017-09-21 11:55:44

Below is generated by plot.py at 2017-09-21 14:14:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.35 Mbit/s

95th percentile per-packet one-way delay: 87.124 ms

Loss rate: 0.00%

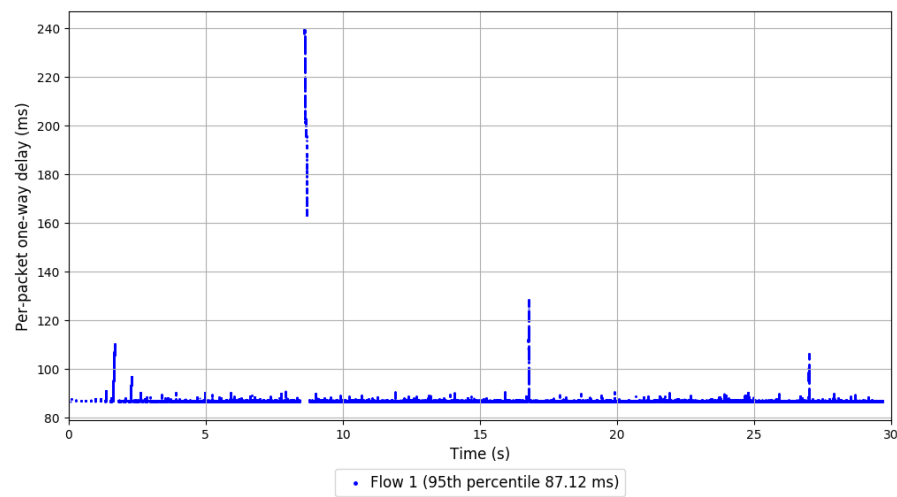
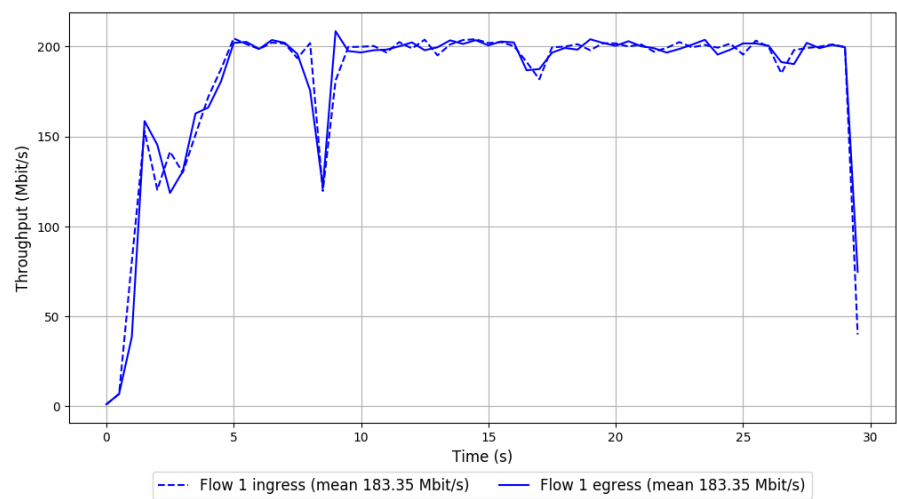
-- Flow 1:

Average throughput: 183.35 Mbit/s

95th percentile per-packet one-way delay: 87.124 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

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

End at: 2017-09-21 12:06:39

Below is generated by plot.py at 2017-09-21 14:14:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.85 Mbit/s

95th percentile per-packet one-way delay: 87.019 ms

Loss rate: 0.00%

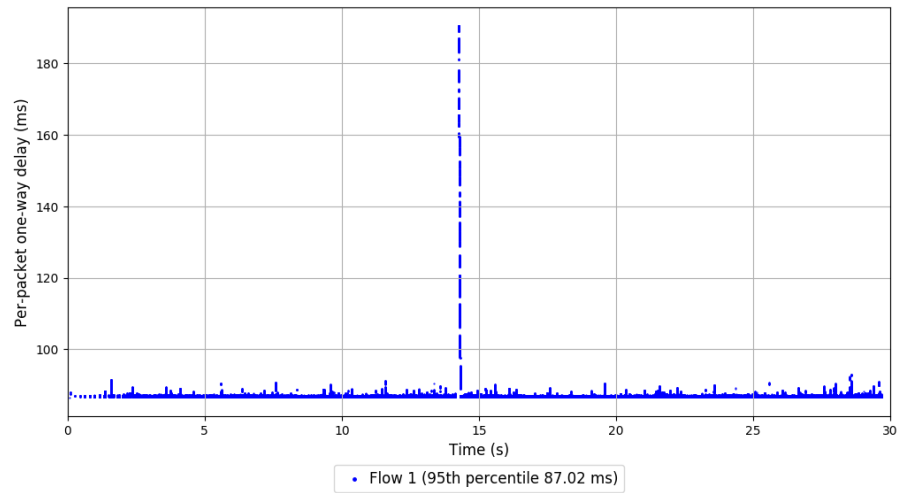
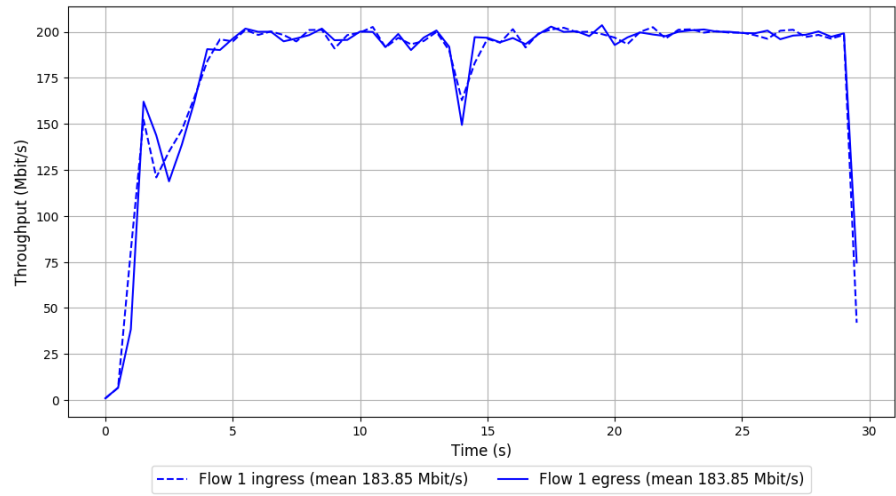
-- Flow 1:

Average throughput: 183.85 Mbit/s

95th percentile per-packet one-way delay: 87.019 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-21 12:16:42

End at: 2017-09-21 12:17:12

Below is generated by plot.py at 2017-09-21 14:15:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.35 Mbit/s

95th percentile per-packet one-way delay: 87.416 ms

Loss rate: 0.00%

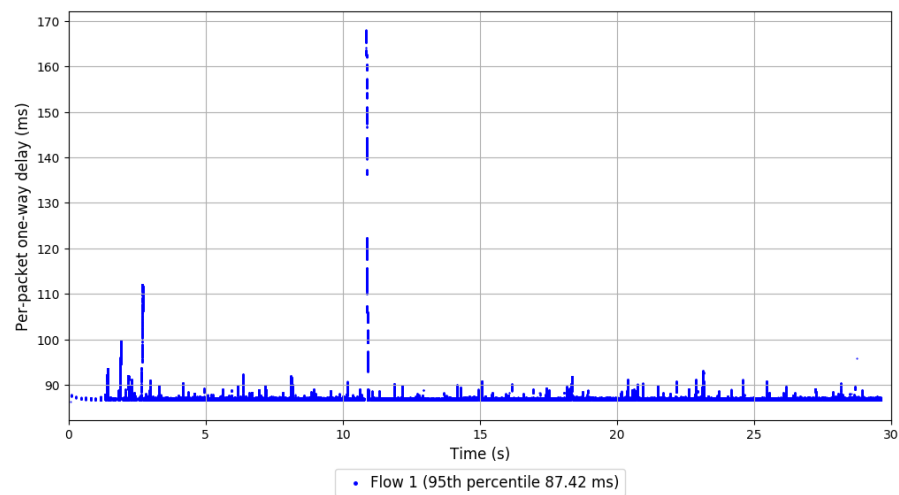
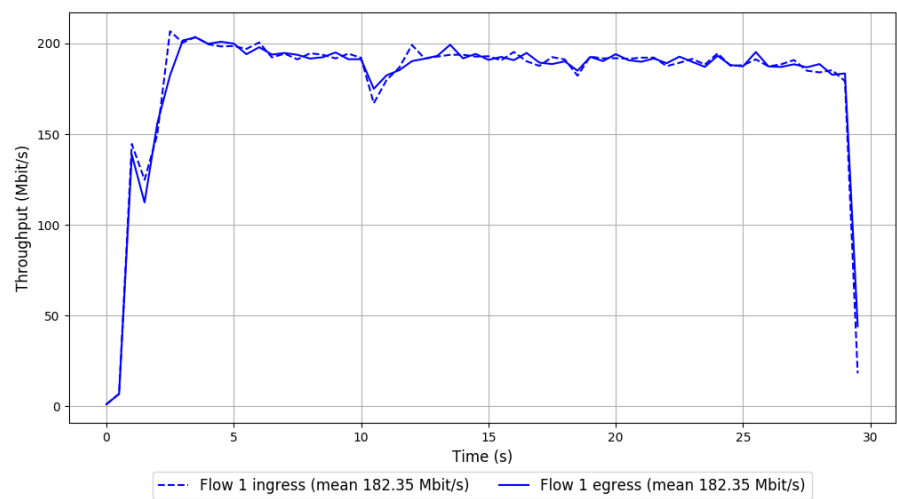
-- Flow 1:

Average throughput: 182.35 Mbit/s

95th percentile per-packet one-way delay: 87.416 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 12:27:40

End at: 2017-09-21 12:28:10

Below is generated by plot.py at 2017-09-21 14:16:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.05 Mbit/s

95th percentile per-packet one-way delay: 87.051 ms

Loss rate: 0.00%

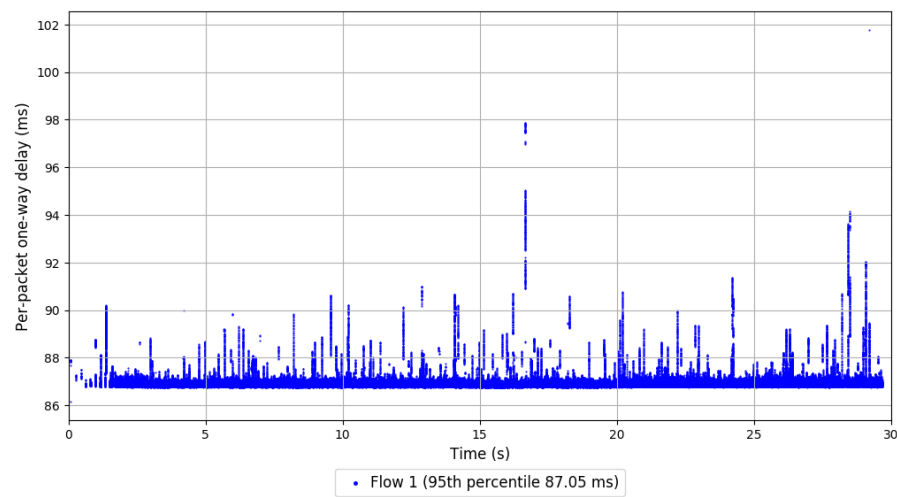
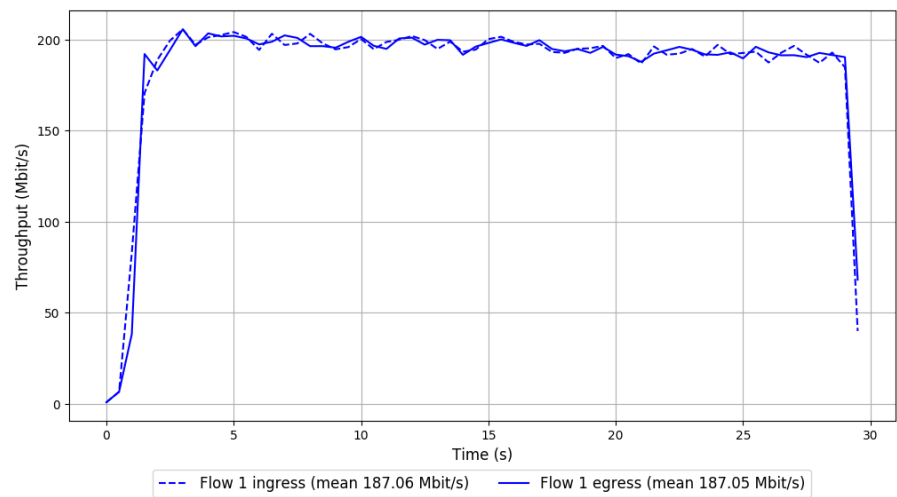
-- Flow 1:

Average throughput: 187.05 Mbit/s

95th percentile per-packet one-way delay: 87.051 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-21 12:38:45

End at: 2017-09-21 12:39:15

Below is generated by plot.py at 2017-09-21 14:16:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.02 Mbit/s

95th percentile per-packet one-way delay: 87.097 ms

Loss rate: 0.00%

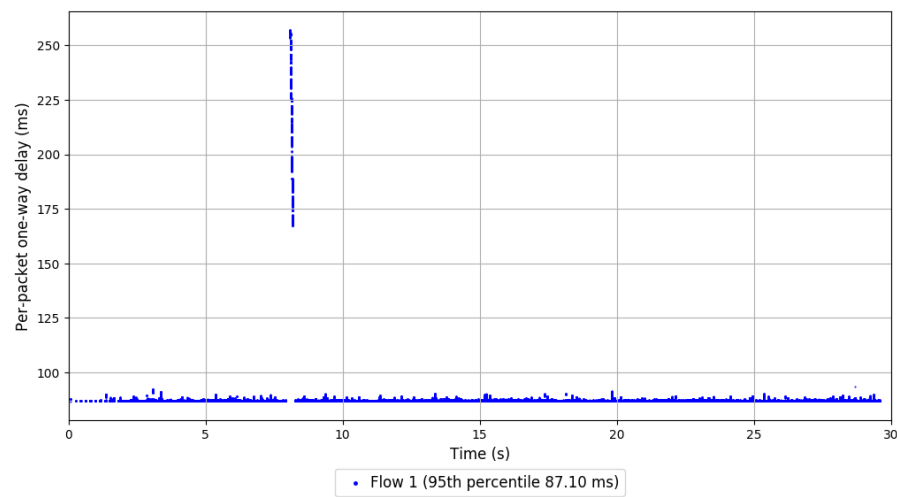
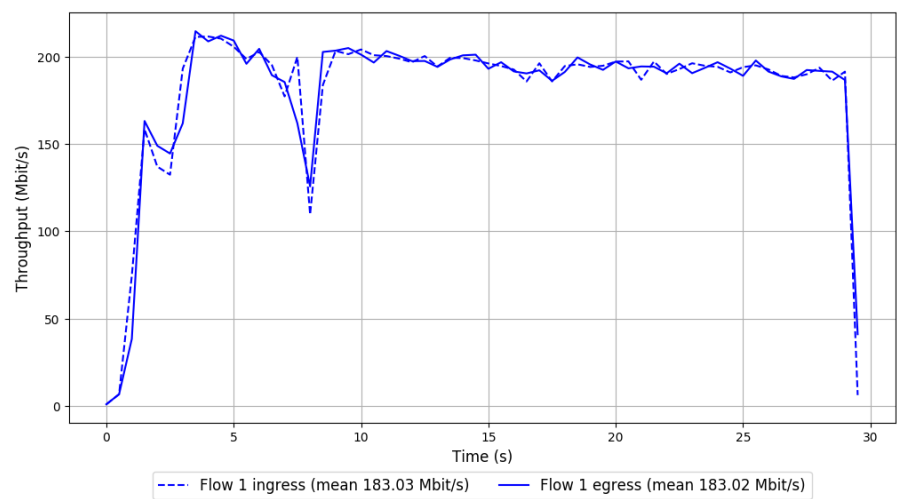
-- Flow 1:

Average throughput: 183.02 Mbit/s

95th percentile per-packet one-way delay: 87.097 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 12:49:42

End at: 2017-09-21 12:50:12

Below is generated by plot.py at 2017-09-21 14:16:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.13 Mbit/s

95th percentile per-packet one-way delay: 86.942 ms

Loss rate: 0.00%

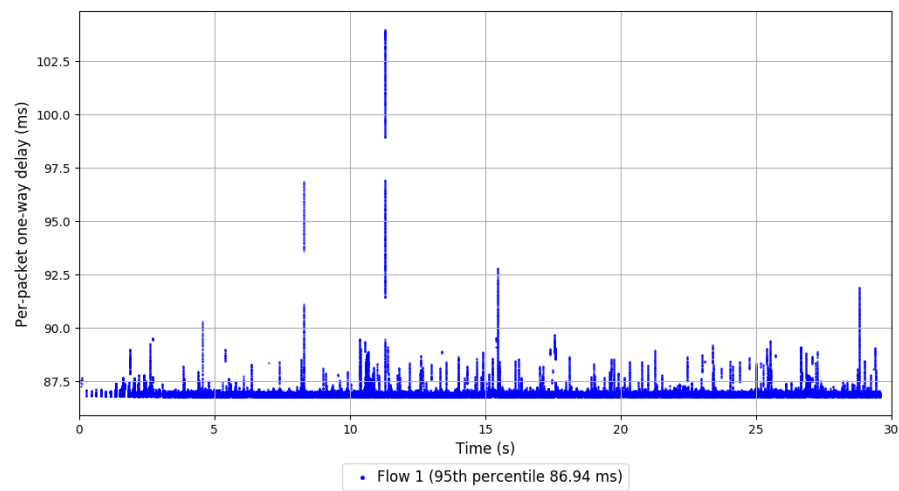
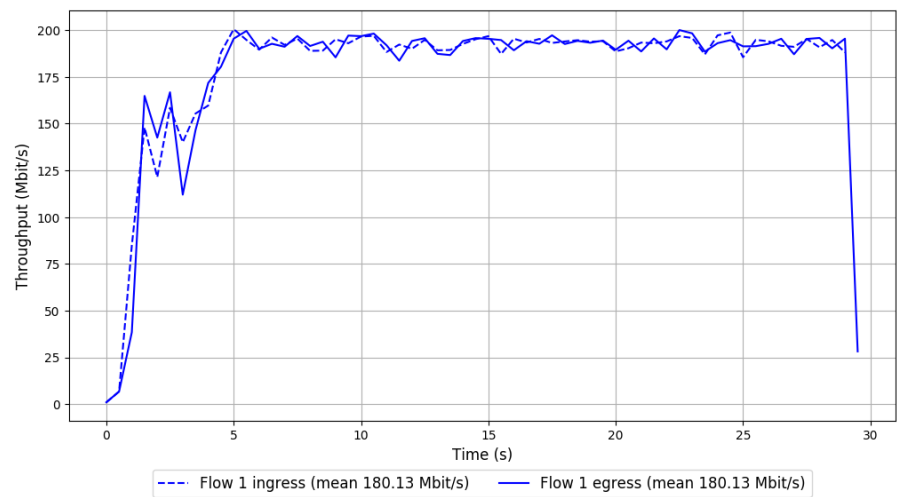
-- Flow 1:

Average throughput: 180.13 Mbit/s

95th percentile per-packet one-way delay: 86.942 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

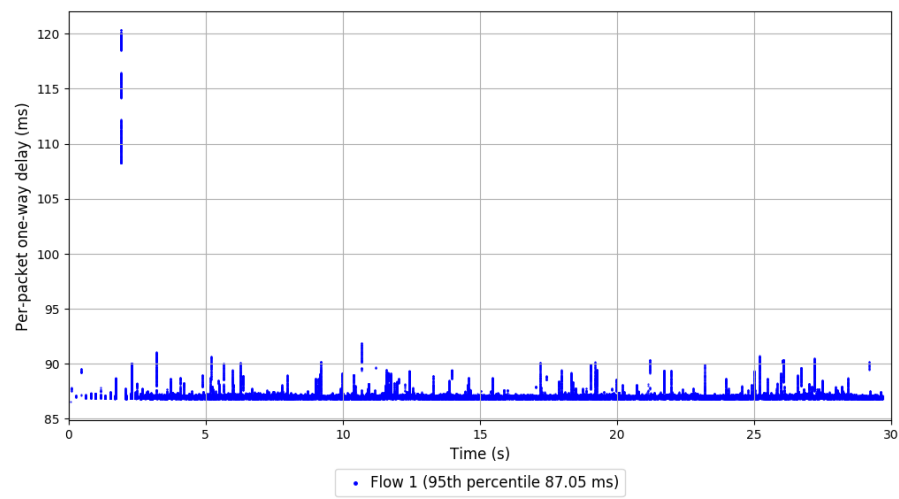
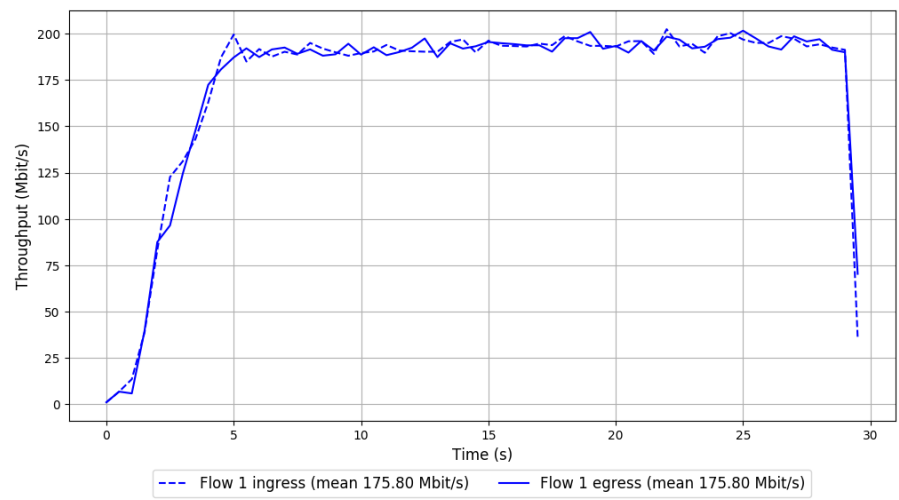


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 11:19:21
End at: 2017-09-21 11:19:51

# Below is generated by plot.py at 2017-09-21 14:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.80 Mbit/s
95th percentile per-packet one-way delay: 87.046 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.80 Mbit/s
95th percentile per-packet one-way delay: 87.046 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

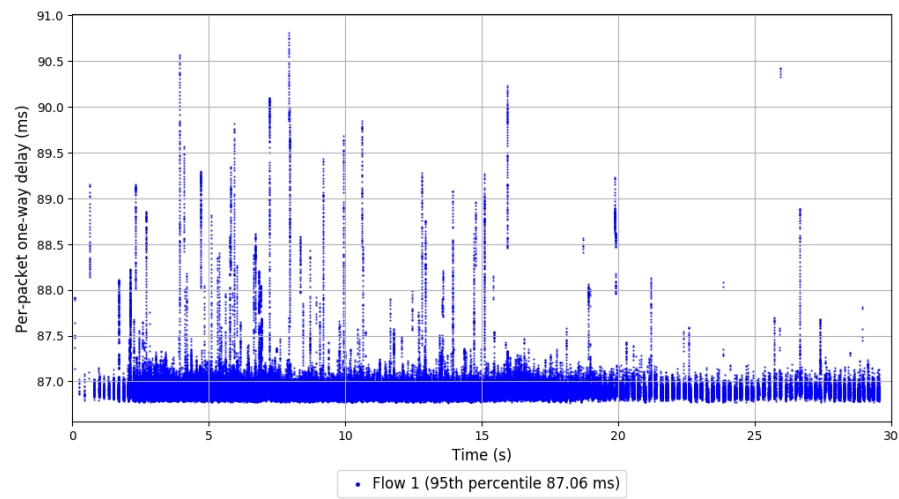
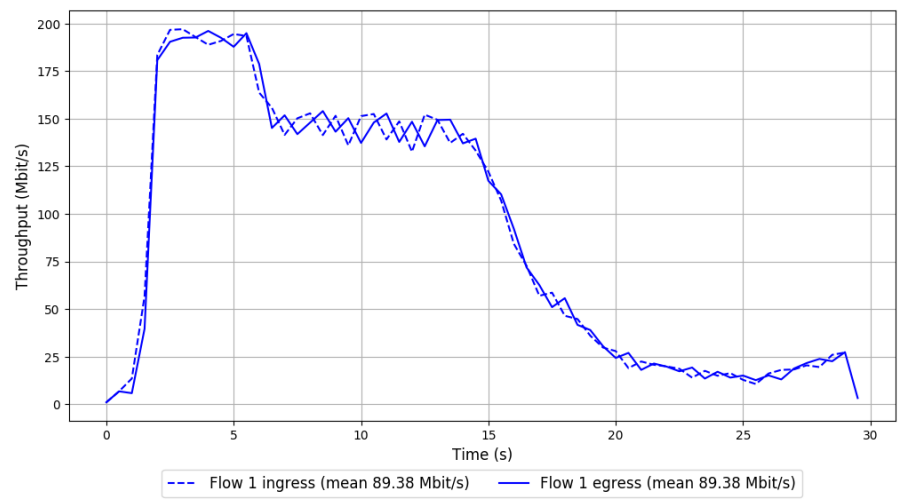


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 11:30:06
End at: 2017-09-21 11:30:36

# Below is generated by plot.py at 2017-09-21 14:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 87.055 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 87.055 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

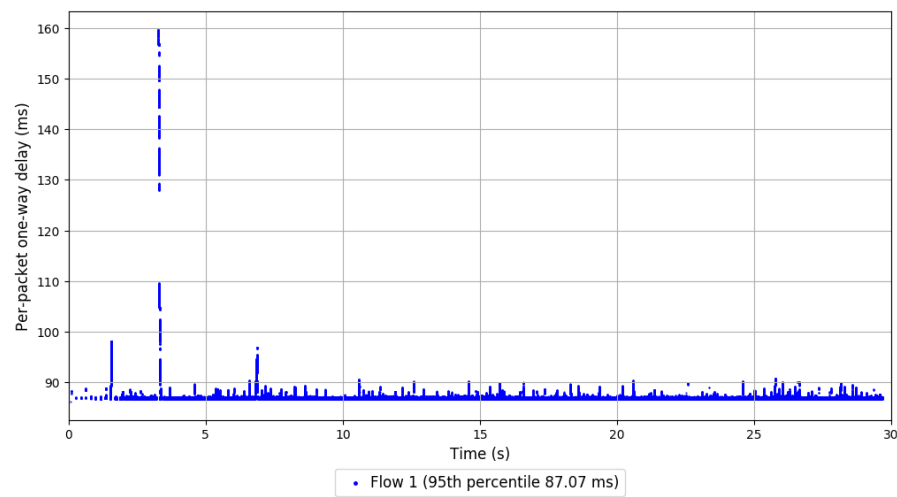
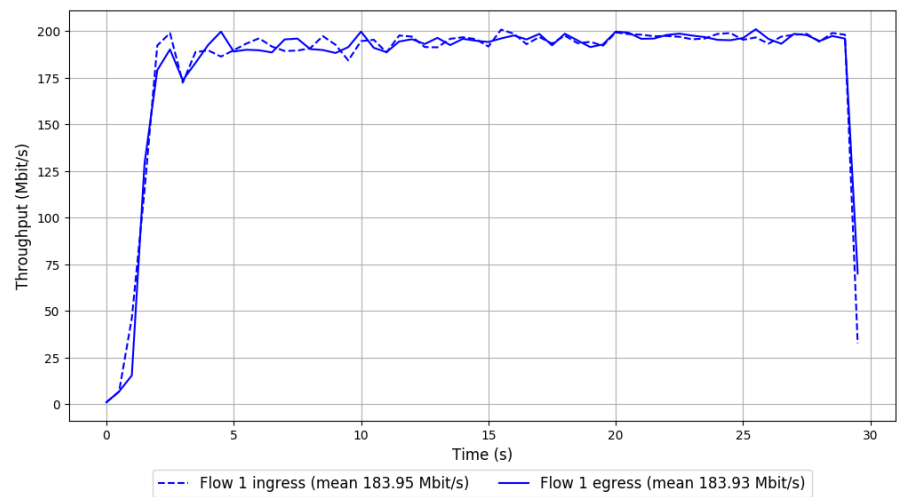


```
Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 11:40:50
End at: 2017-09-21 11:41:20

# Below is generated by plot.py at 2017-09-21 14:17:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.93 Mbit/s
95th percentile per-packet one-way delay: 87.070 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 183.93 Mbit/s
95th percentile per-packet one-way delay: 87.070 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 11:51:44

End at: 2017-09-21 11:52:14

Below is generated by plot.py at 2017-09-21 14:18:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.02 Mbit/s

95th percentile per-packet one-way delay: 87.064 ms

Loss rate: 0.00%

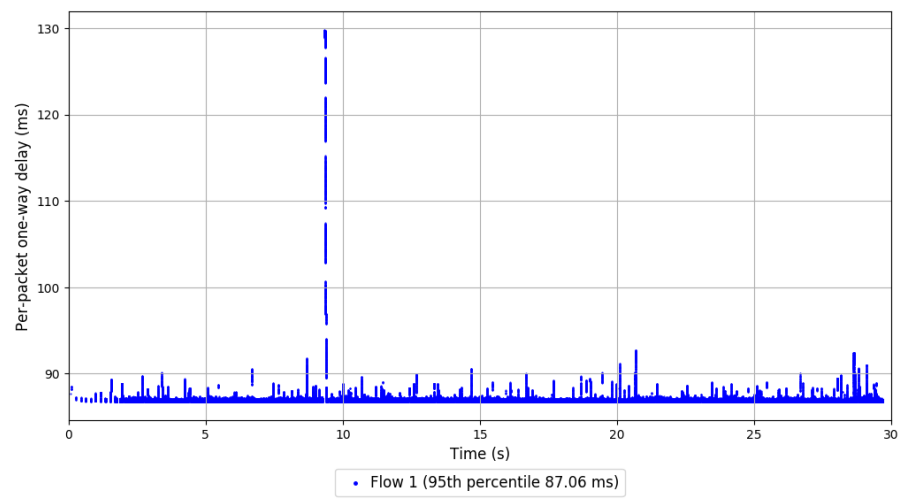
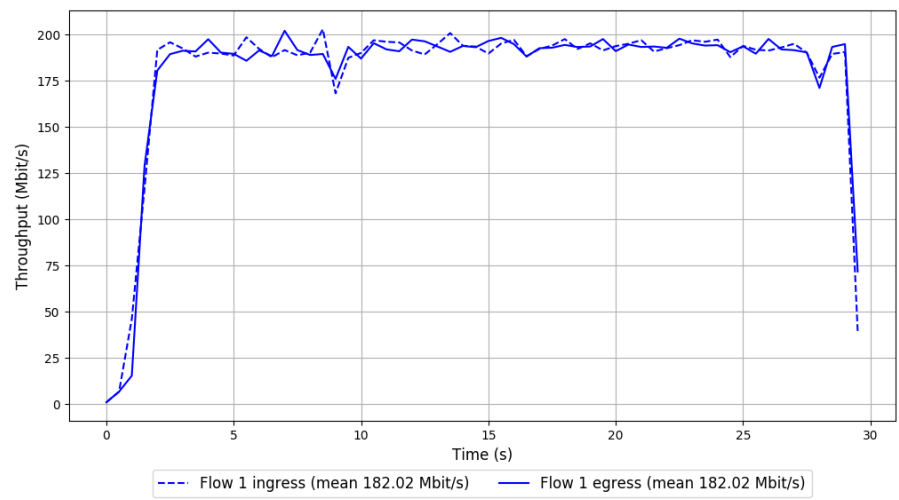
-- Flow 1:

Average throughput: 182.02 Mbit/s

95th percentile per-packet one-way delay: 87.064 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 12:02:33

End at: 2017-09-21 12:03:04

Below is generated by plot.py at 2017-09-21 14:19:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.61 Mbit/s

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

Loss rate: 0.00%

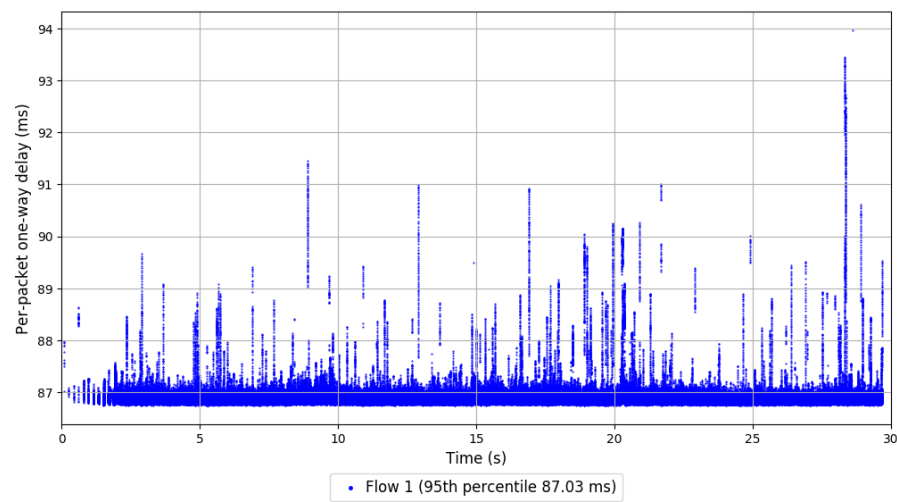
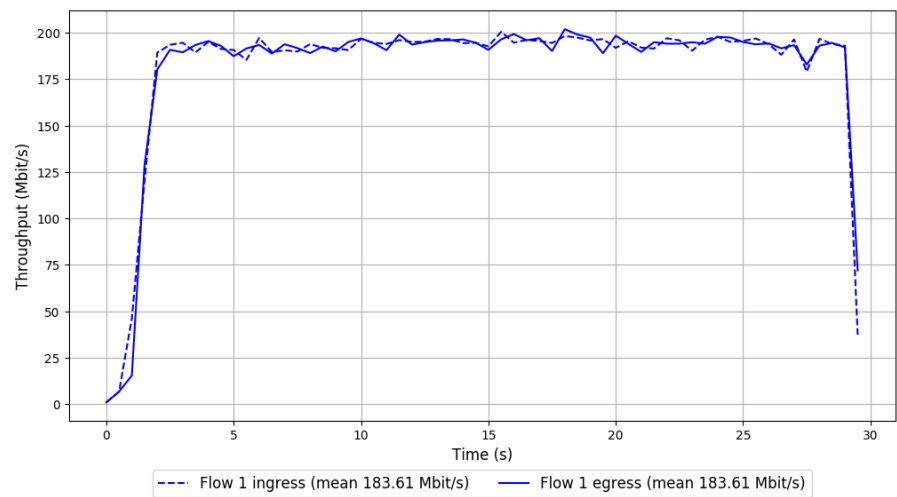
-- Flow 1:

Average throughput: 183.61 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 12:13:17

End at: 2017-09-21 12:13:47

Below is generated by plot.py at 2017-09-21 14:19:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.37 Mbit/s

95th percentile per-packet one-way delay: 87.021 ms

Loss rate: 0.00%

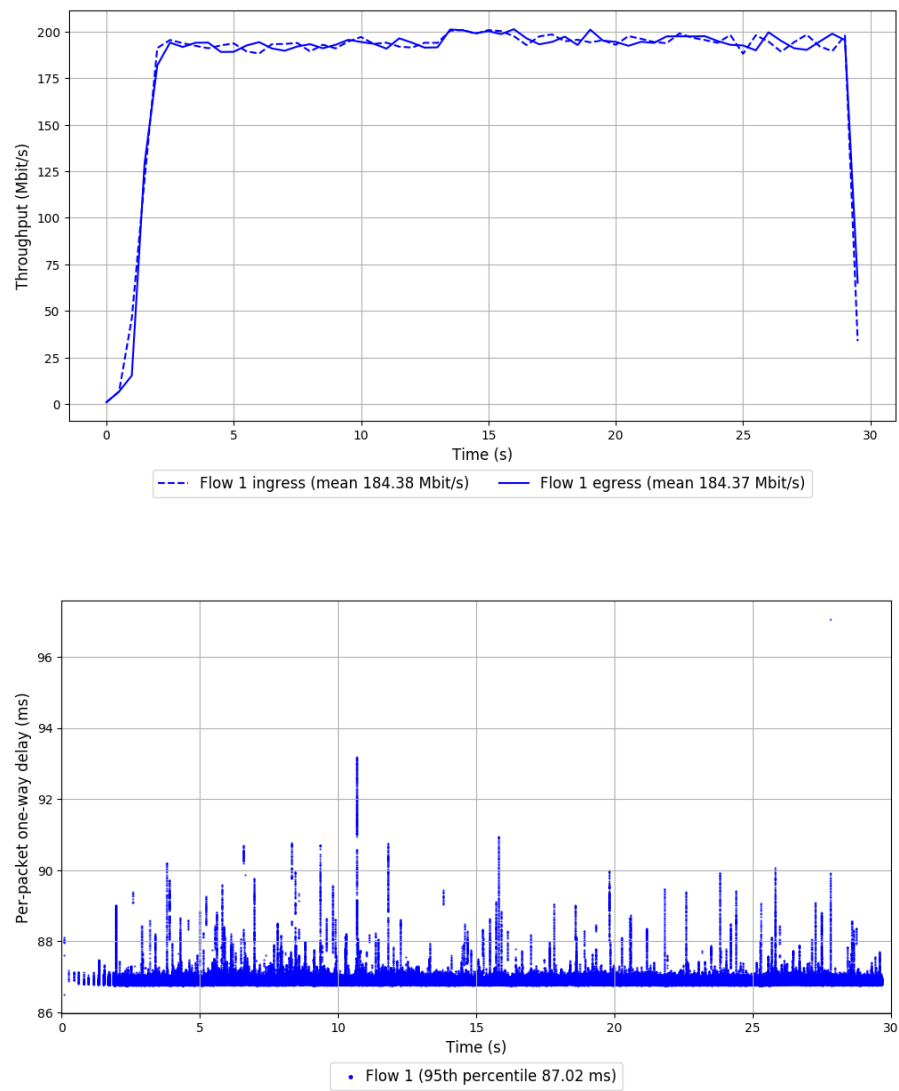
-- Flow 1:

Average throughput: 184.37 Mbit/s

95th percentile per-packet one-way delay: 87.021 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 12:23:59

End at: 2017-09-21 12:24:29

Below is generated by plot.py at 2017-09-21 14:19:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.59 Mbit/s

95th percentile per-packet one-way delay: 87.092 ms

Loss rate: 0.00%

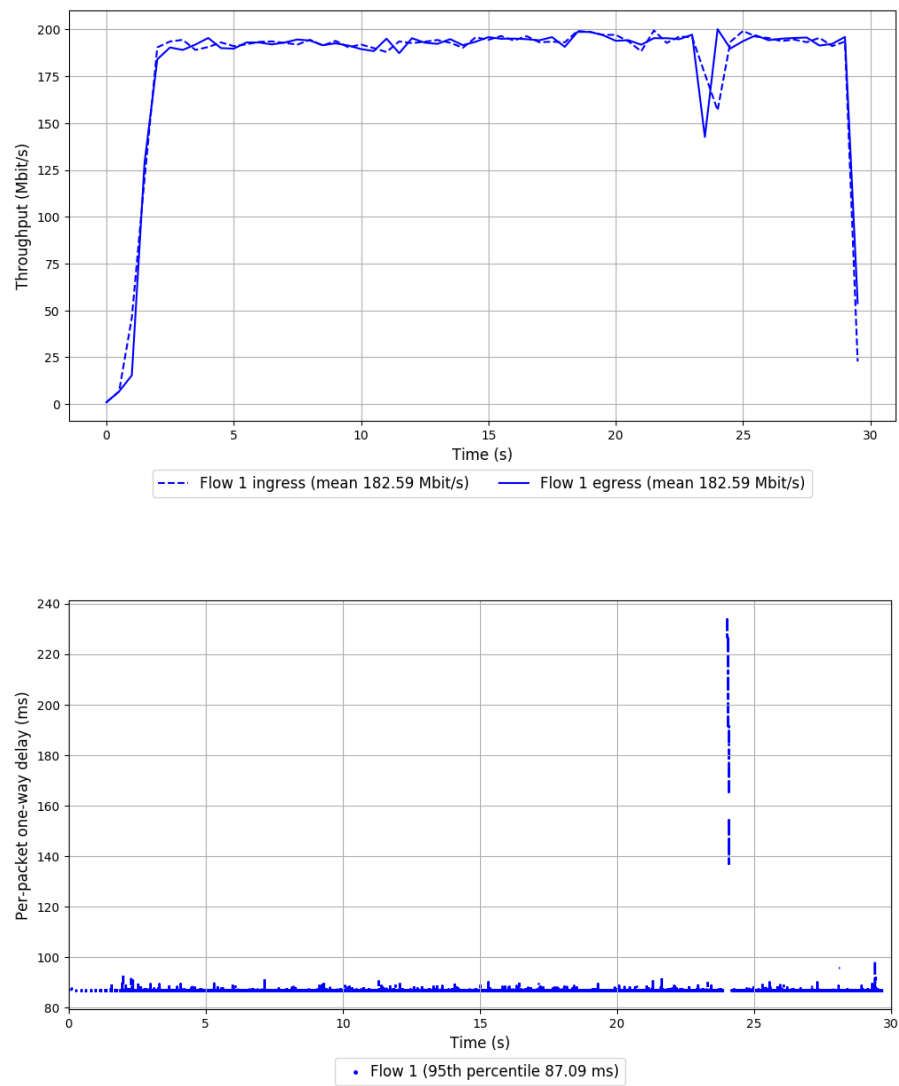
-- Flow 1:

Average throughput: 182.59 Mbit/s

95th percentile per-packet one-way delay: 87.092 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 12:35:08

End at: 2017-09-21 12:35:38

Below is generated by plot.py at 2017-09-21 14:19:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.35 Mbit/s

95th percentile per-packet one-way delay: 87.021 ms

Loss rate: 0.00%

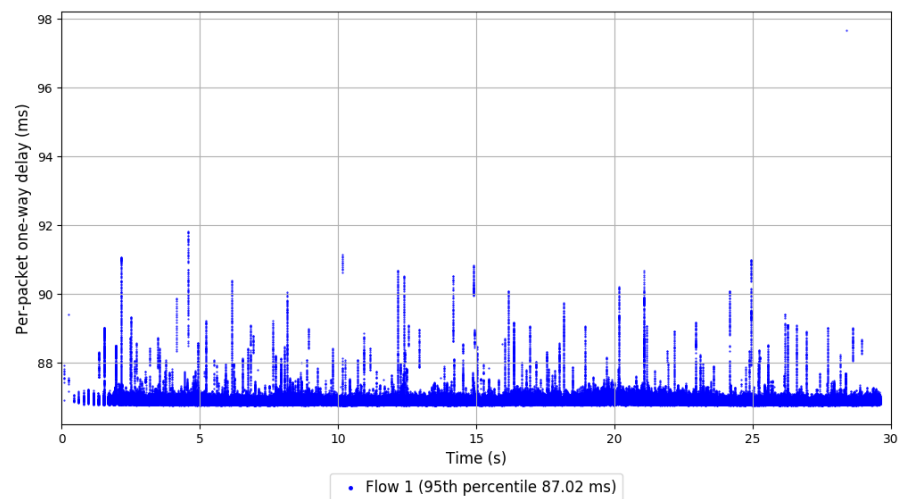
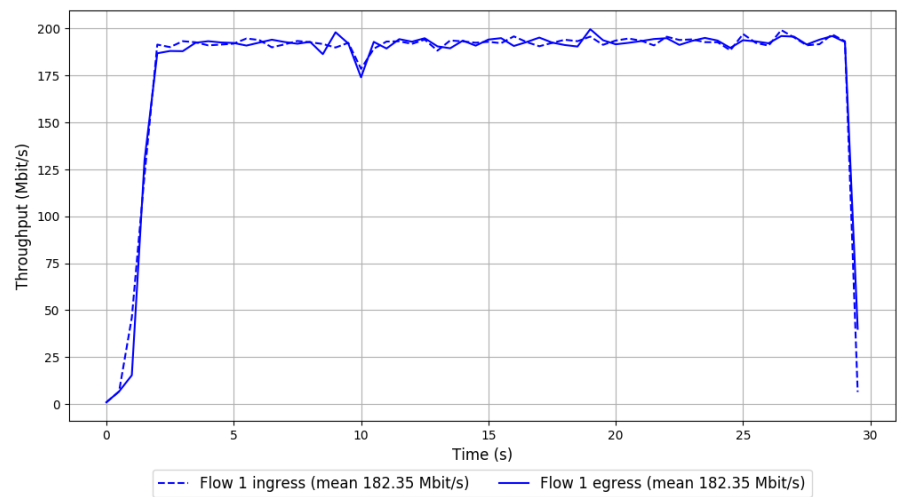
-- Flow 1:

Average throughput: 182.35 Mbit/s

95th percentile per-packet one-way delay: 87.021 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

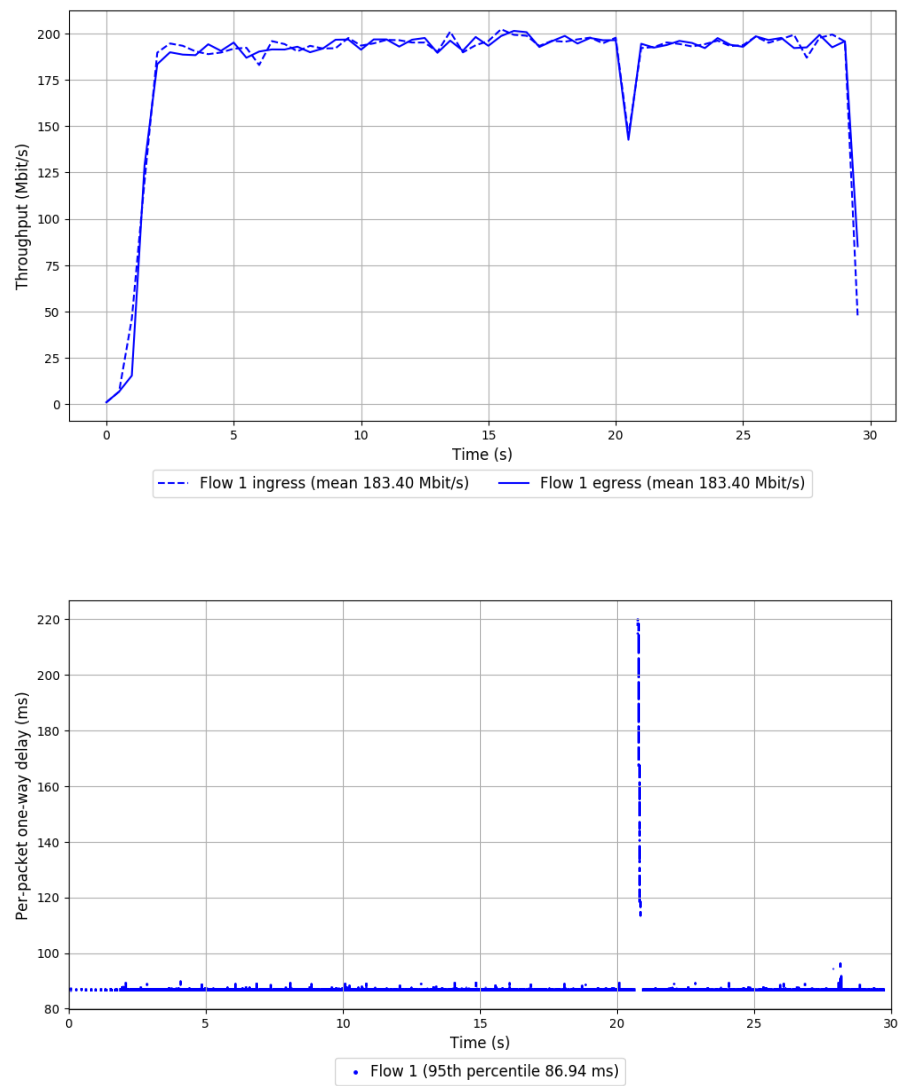


```
Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 12:46:02
End at: 2017-09-21 12:46:32

# Below is generated by plot.py at 2017-09-21 14:19:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.40 Mbit/s
95th percentile per-packet one-way delay: 86.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 183.40 Mbit/s
95th percentile per-packet one-way delay: 86.944 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 12:56:59

End at: 2017-09-21 12:57:29

Below is generated by plot.py at 2017-09-21 14:20:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.88 Mbit/s

95th percentile per-packet one-way delay: 87.174 ms

Loss rate: 0.00%

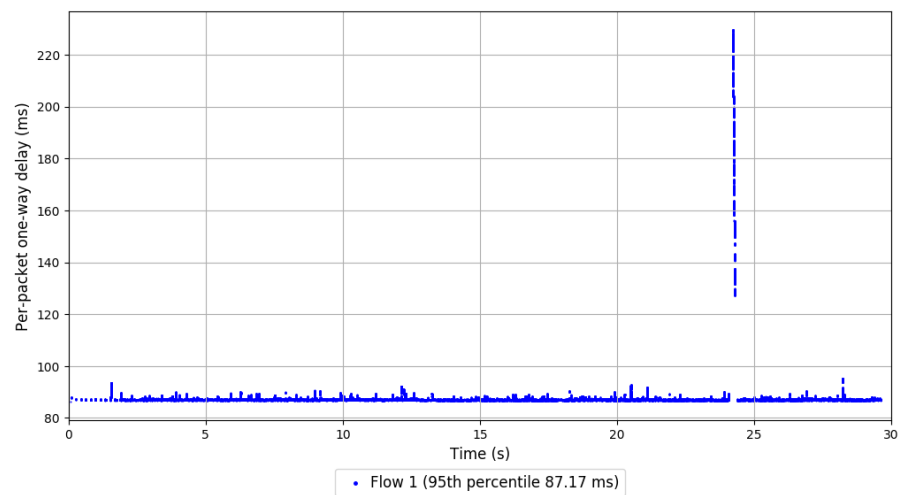
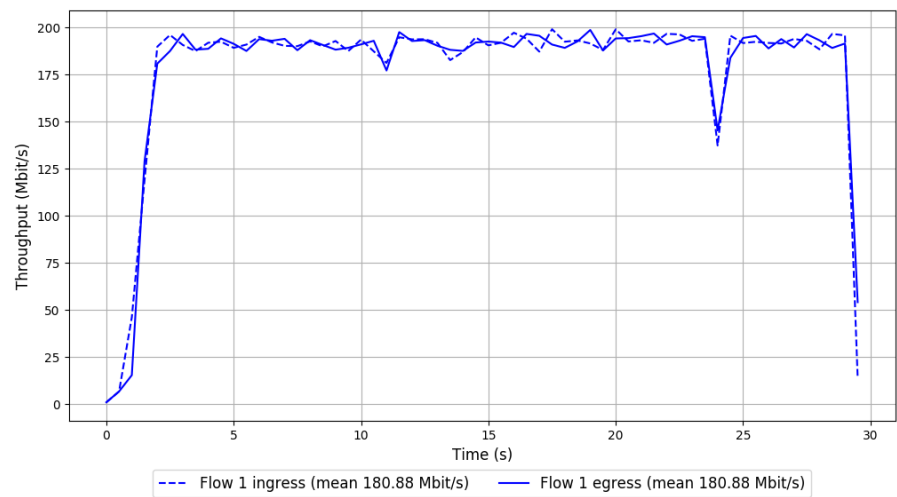
-- Flow 1:

Average throughput: 180.88 Mbit/s

95th percentile per-packet one-way delay: 87.174 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

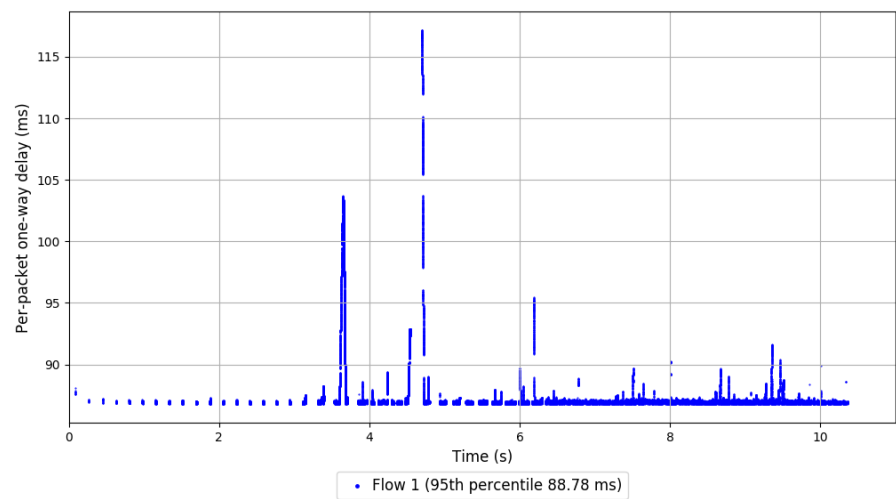
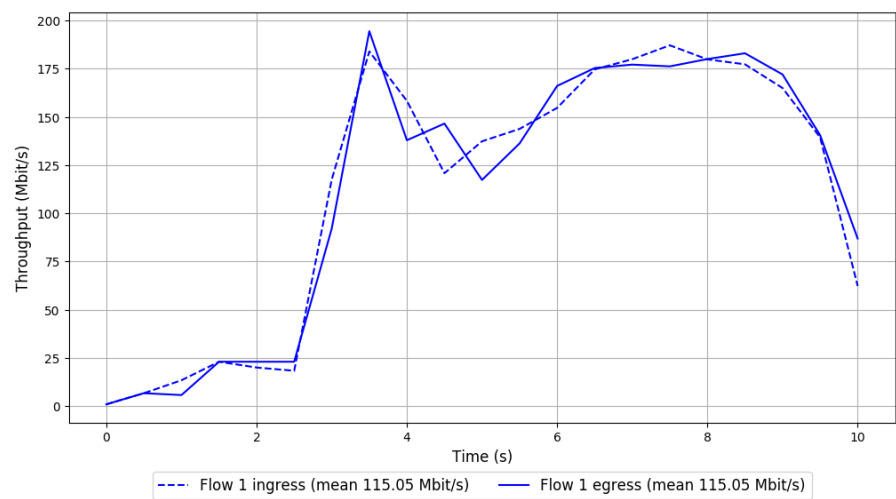


Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 11:17:59

End at: 2017-09-21 11:18:29

Run 1: Report of Indigo-delay — Data Link

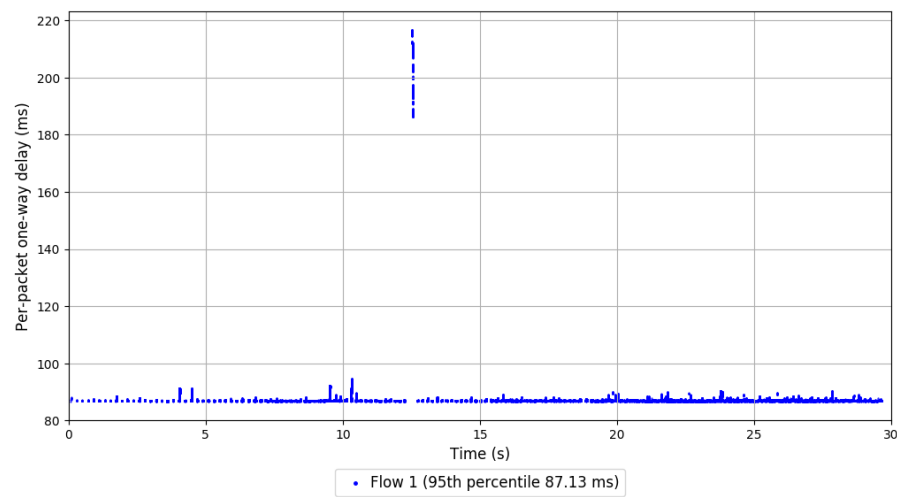
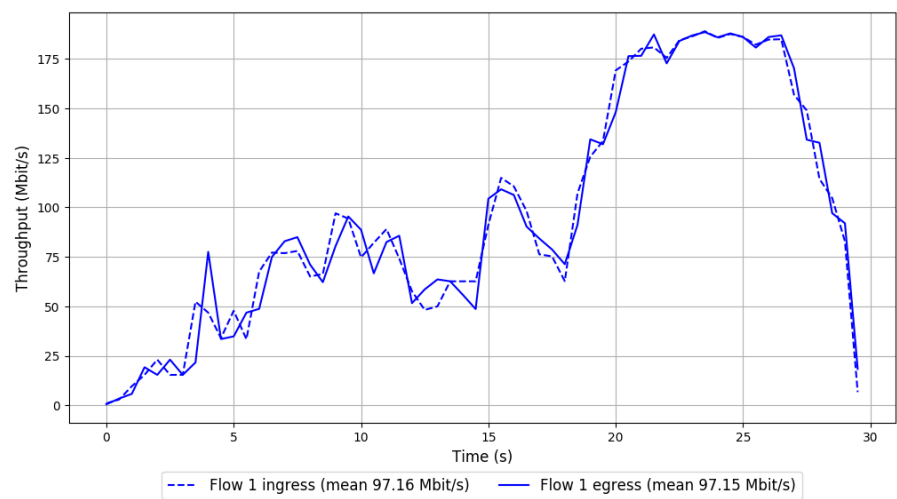


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 11:28:41
End at: 2017-09-21 11:29:11

# Below is generated by plot.py at 2017-09-21 14:20:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 87.127 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 87.127 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-delay — Data Link

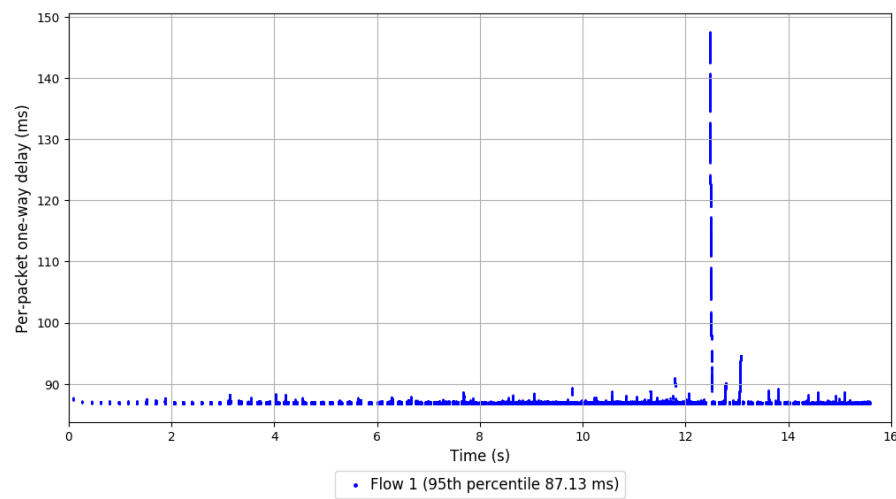
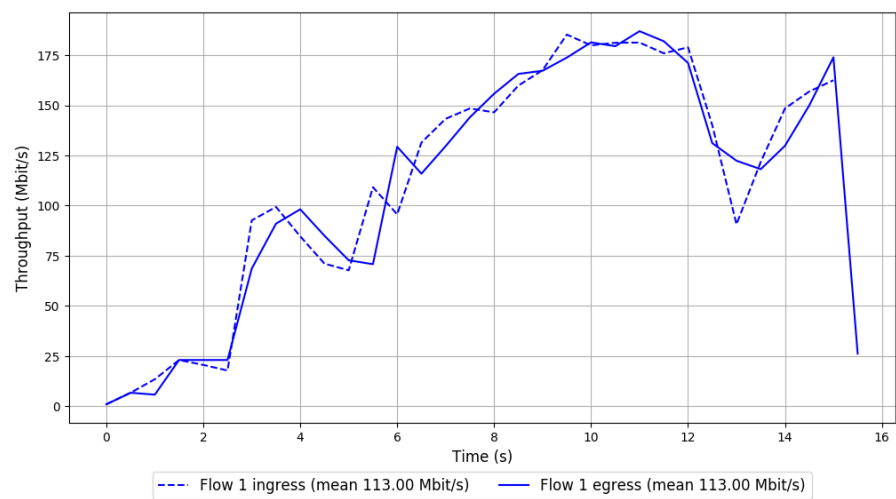


Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 11:39:26

End at: 2017-09-21 11:39:57

Run 3: Report of Indigo-delay — Data Link

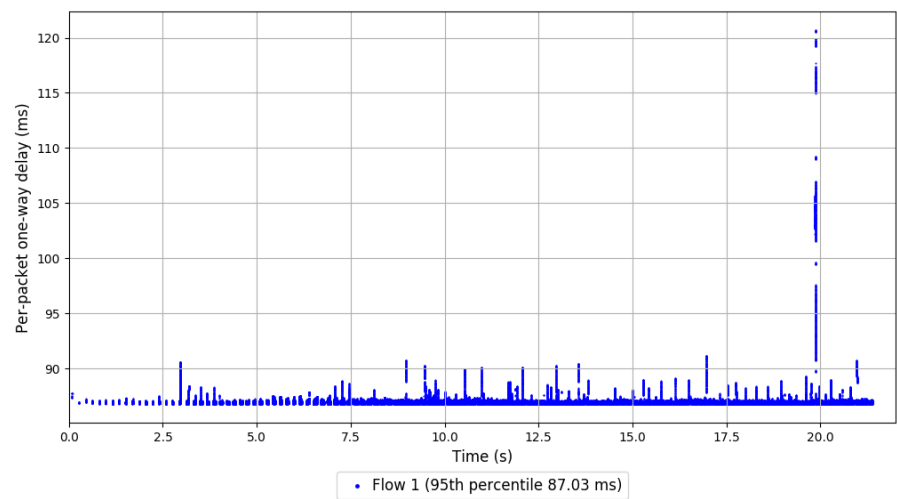
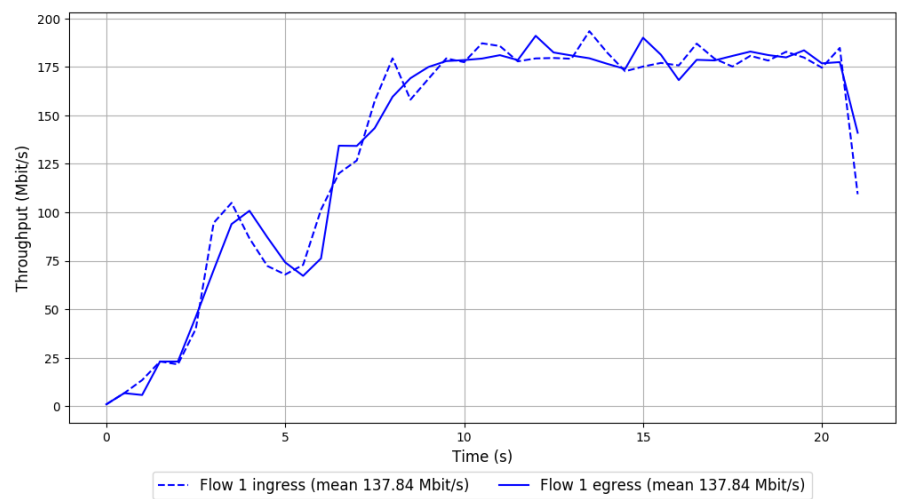


Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 11:50:17

End at: 2017-09-21 11:50:47

Run 4: Report of Indigo-delay — Data Link

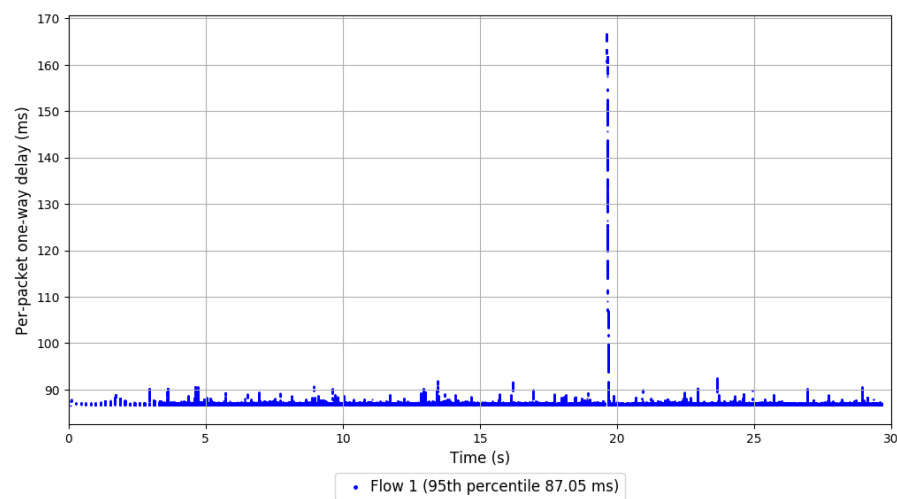
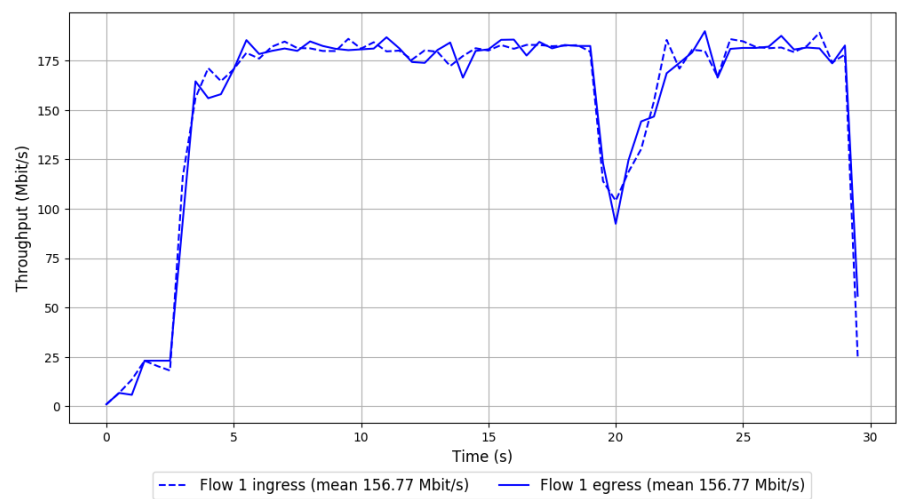


```
Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 12:01:03
End at: 2017-09-21 12:01:33

# Below is generated by plot.py at 2017-09-21 14:21:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.77 Mbit/s
95th percentile per-packet one-way delay: 87.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.77 Mbit/s
95th percentile per-packet one-way delay: 87.050 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-delay — Data Link

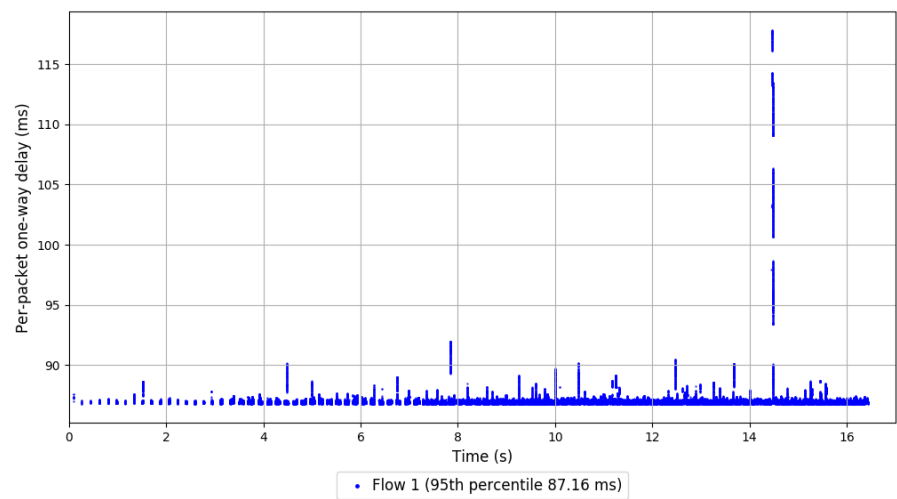
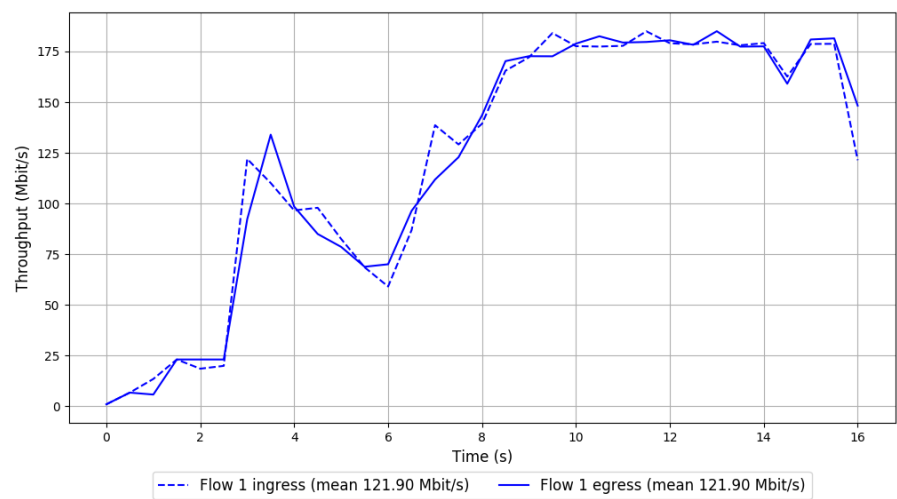


Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 12:11:53

End at: 2017-09-21 12:12:23

Run 6: Report of Indigo-delay — Data Link

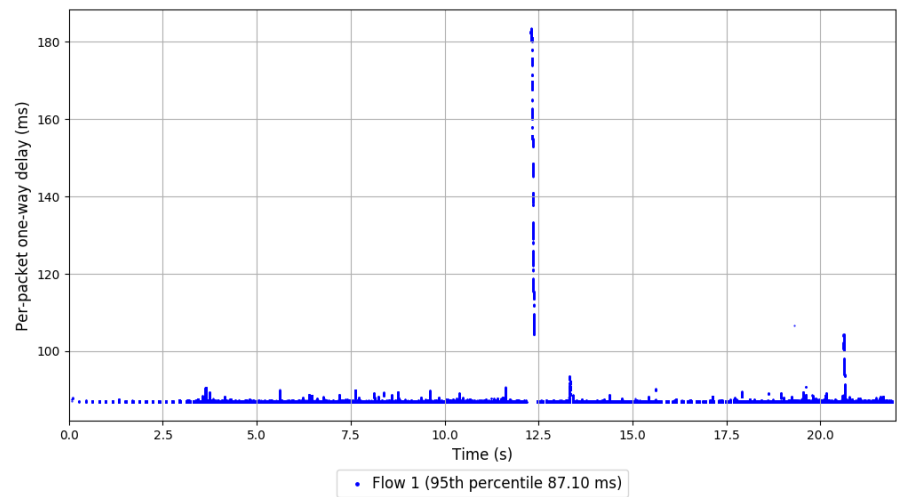
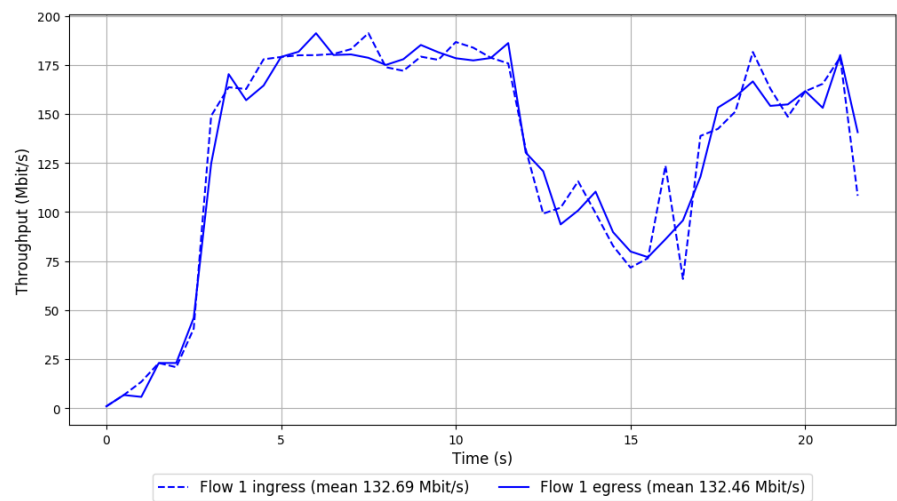


Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 12:22:33

End at: 2017-09-21 12:23:03

Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 12:33:39

End at: 2017-09-21 12:34:09

Below is generated by plot.py at 2017-09-21 14:21:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.48 Mbit/s

95th percentile per-packet one-way delay: 87.272 ms

Loss rate: 0.00%

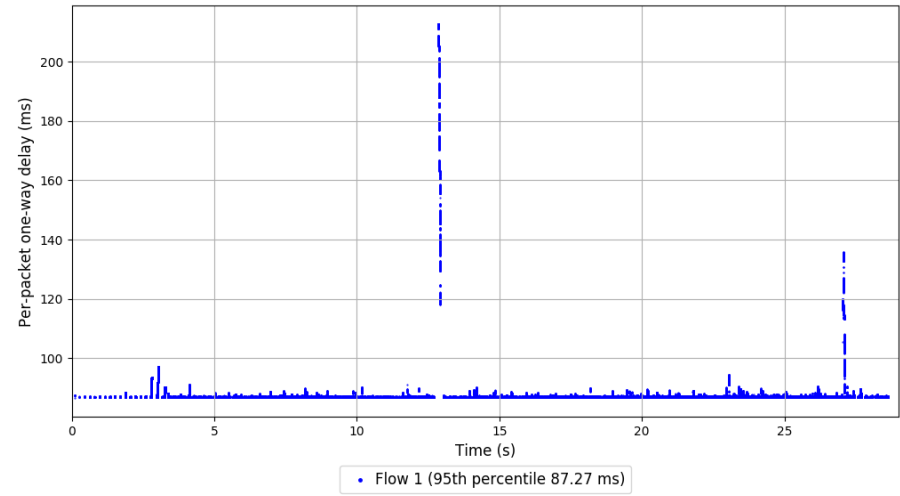
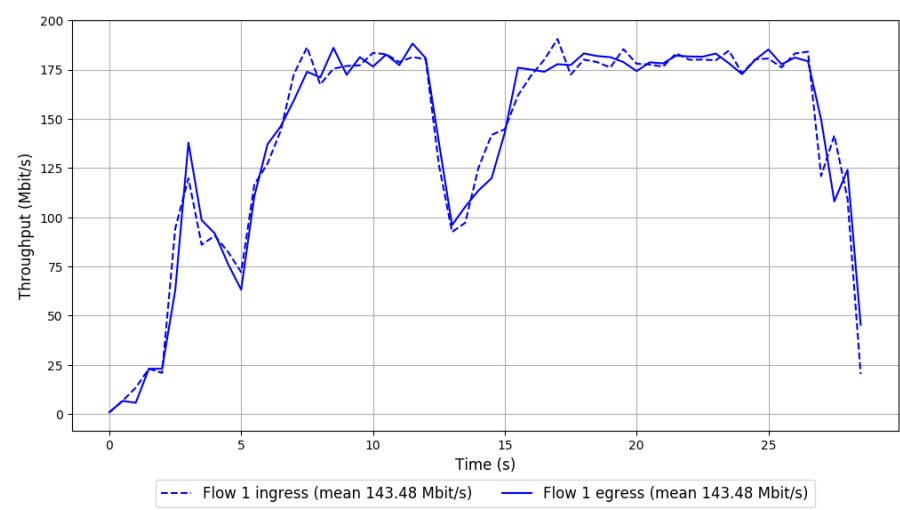
-- Flow 1:

Average throughput: 143.48 Mbit/s

95th percentile per-packet one-way delay: 87.272 ms

Loss rate: 0.00%

Run 8: Report of Indigo-delay — Data Link

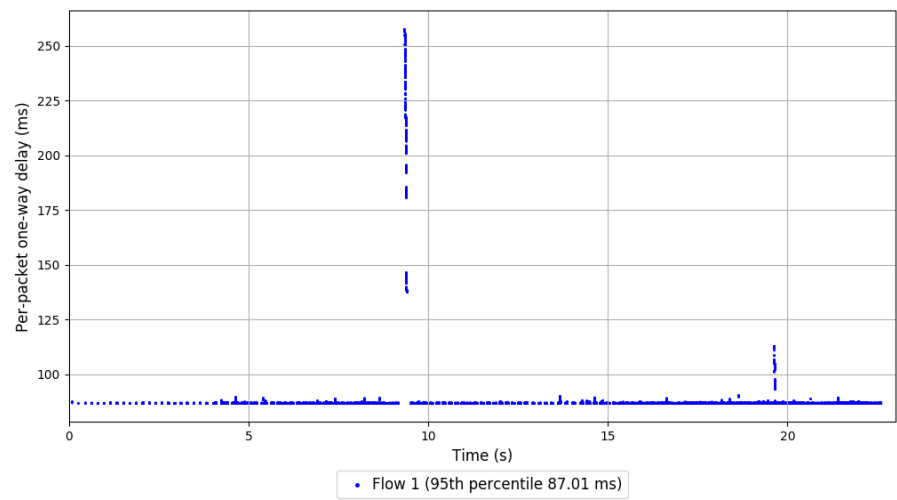
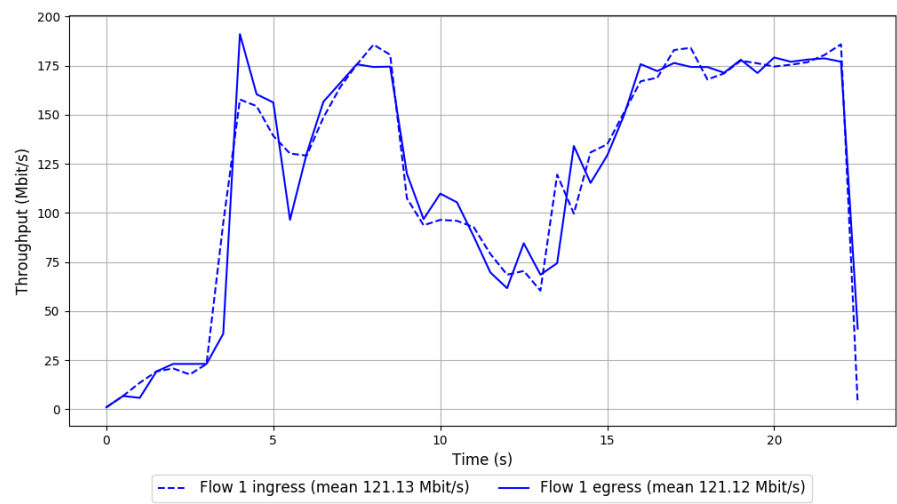


Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 12:44:37

End at: 2017-09-21 12:45:07

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 12:55:32

End at: 2017-09-21 12:56:02

Run 10: Report of Indigo-delay — Data Link

