

Pantheon Report

Generated at 2017-11-30 09:28:53 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

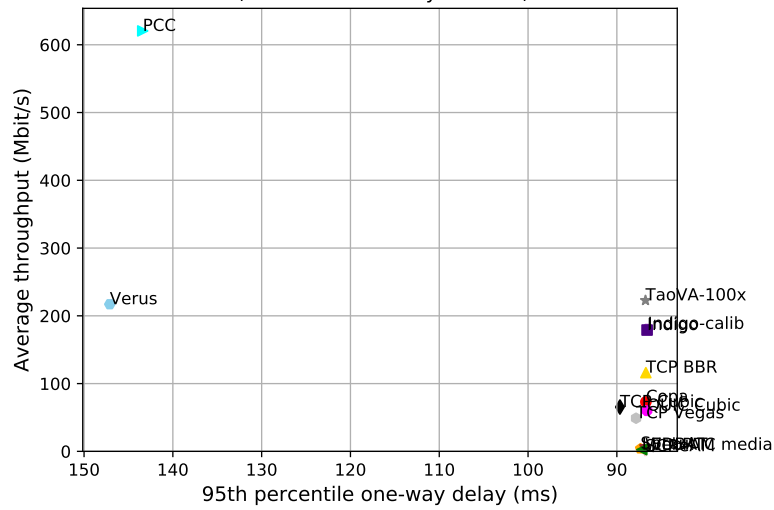
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

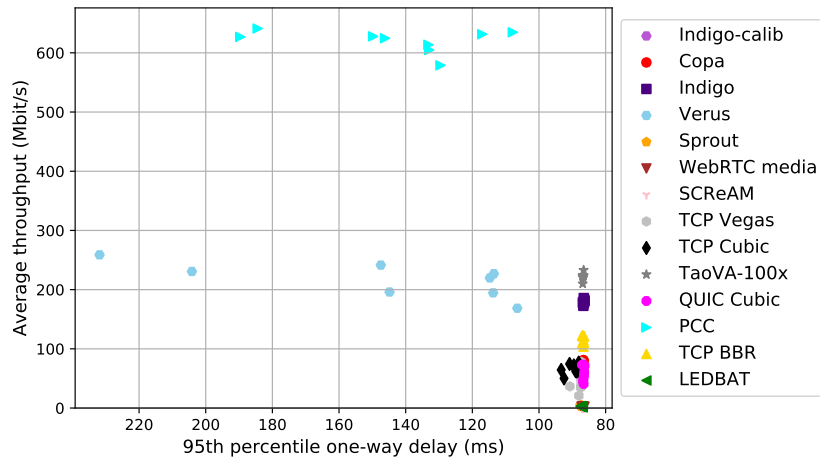
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Sydney Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	116.17	86.73	0.58
TCP Cubic	10	65.38	89.65	0.54
LEDBAT	10	2.44	87.19	0.80
PCC	9	620.45	143.39	1.60
QUIC Cubic	9	60.05	86.62	0.70
SCReAM	10	0.22	86.79	0.55
WebRTC media	10	2.18	86.84	0.69
Sprout	10	3.94	87.34	0.70
TaoVA-100x	10	222.81	86.77	0.58
TCP Vegas	10	48.89	87.84	0.48
Verus	8	217.11	147.10	0.83
Copa	9	72.93	86.73	0.61
Indigo	10	179.02	86.60	0.61
Indigo-calib	7	180.72	86.53	0.63

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 05:19:30

End at: 2017-11-30 05:20:00

Below is generated by plot.py at 2017-11-30 08:52:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.01 Mbit/s

95th percentile per-packet one-way delay: 86.470 ms

Loss rate: 0.61%

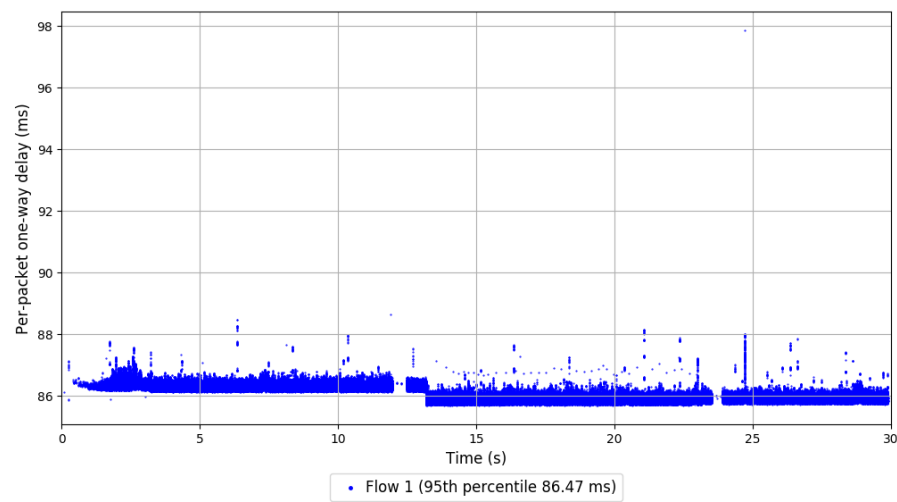
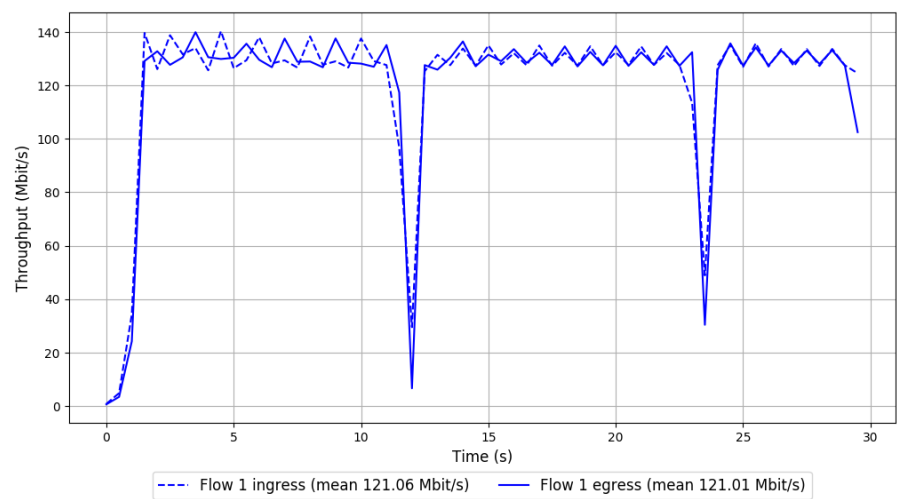
-- Flow 1:

Average throughput: 121.01 Mbit/s

95th percentile per-packet one-way delay: 86.470 ms

Loss rate: 0.61%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 05:29:44

End at: 2017-11-30 05:30:15

Below is generated by plot.py at 2017-11-30 08:52:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.62 Mbit/s

95th percentile per-packet one-way delay: 86.646 ms

Loss rate: 0.62%

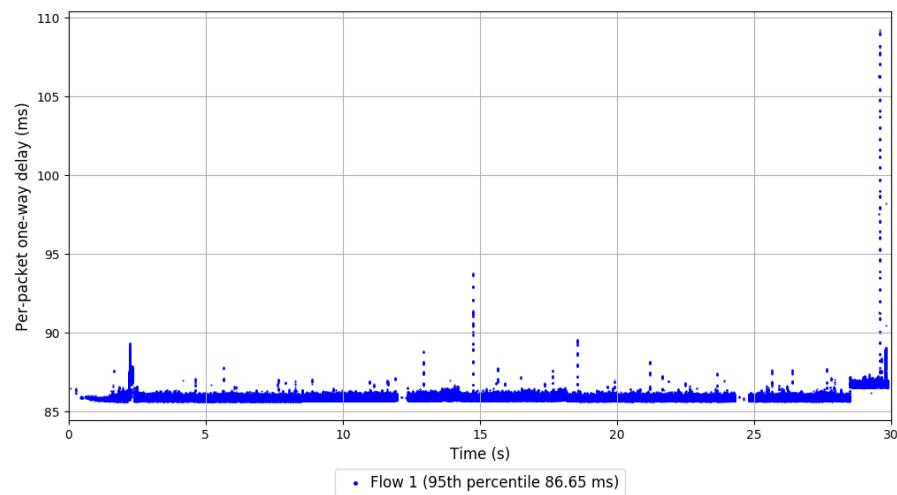
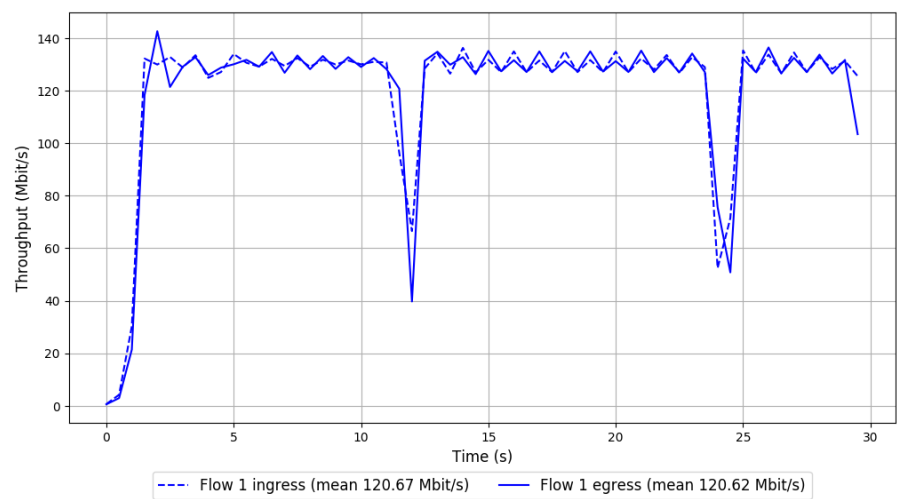
-- Flow 1:

Average throughput: 120.62 Mbit/s

95th percentile per-packet one-way delay: 86.646 ms

Loss rate: 0.62%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 05:40:46

End at: 2017-11-30 05:41:16

Below is generated by plot.py at 2017-11-30 08:52:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.05 Mbit/s

95th percentile per-packet one-way delay: 86.546 ms

Loss rate: 0.48%

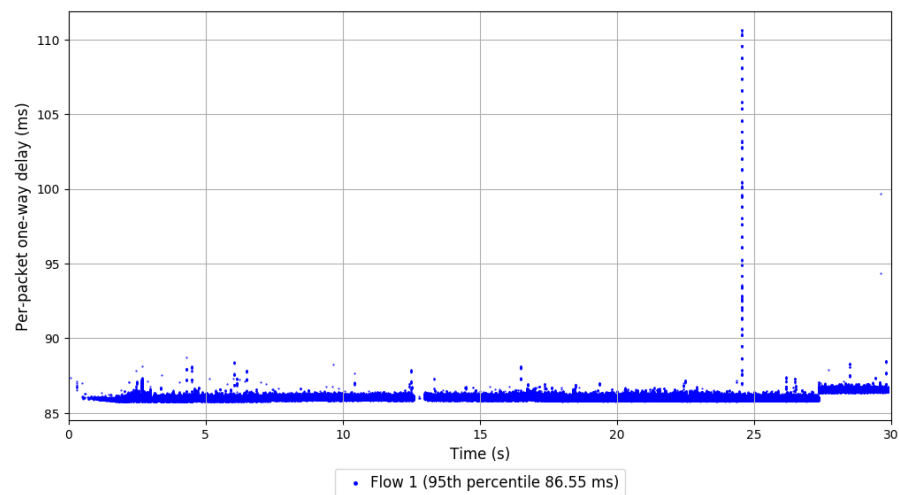
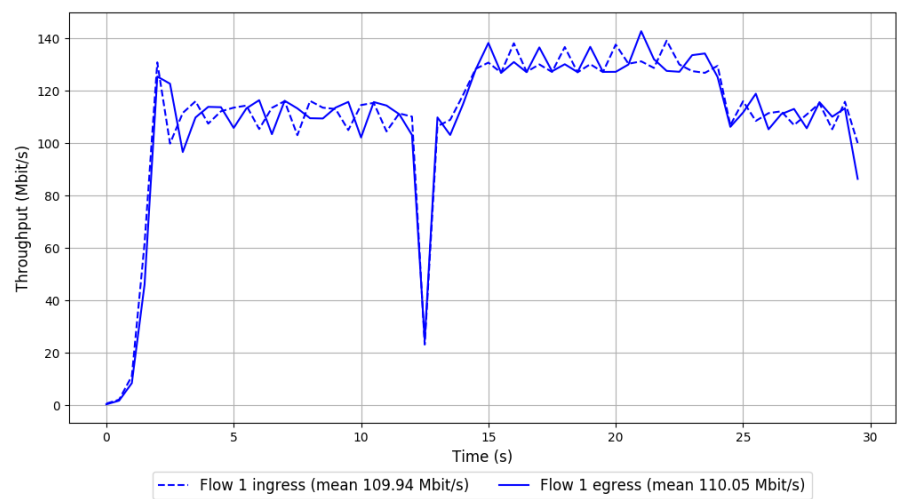
-- Flow 1:

Average throughput: 110.05 Mbit/s

95th percentile per-packet one-way delay: 86.546 ms

Loss rate: 0.48%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-30 05:51:33

End at: 2017-11-30 05:52:03

Below is generated by plot.py at 2017-11-30 08:52:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.98 Mbit/s

95th percentile per-packet one-way delay: 86.581 ms

Loss rate: 0.36%

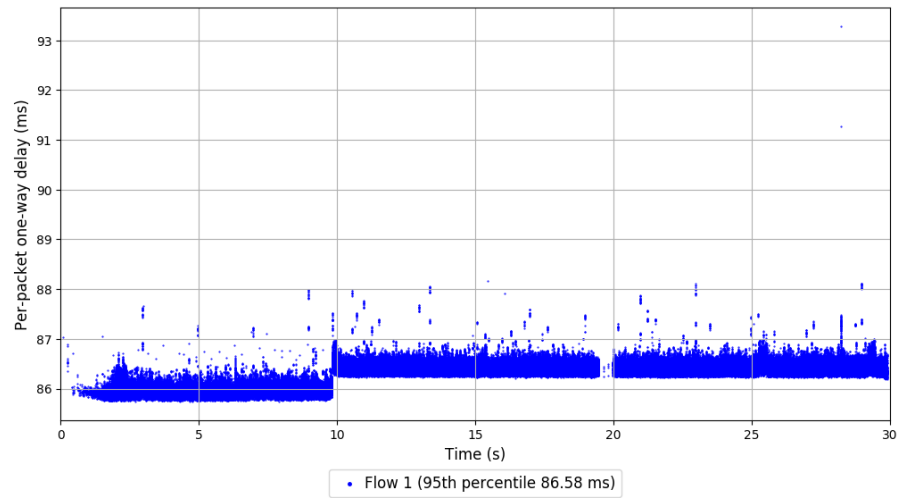
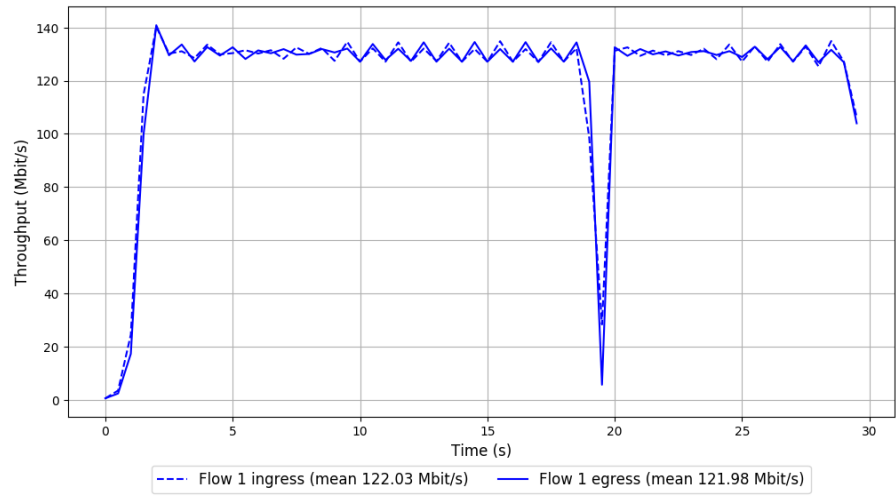
-- Flow 1:

Average throughput: 121.98 Mbit/s

95th percentile per-packet one-way delay: 86.581 ms

Loss rate: 0.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 06:02:36

End at: 2017-11-30 06:03:06

Below is generated by plot.py at 2017-11-30 08:52:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.79 Mbit/s

95th percentile per-packet one-way delay: 86.916 ms

Loss rate: 0.67%

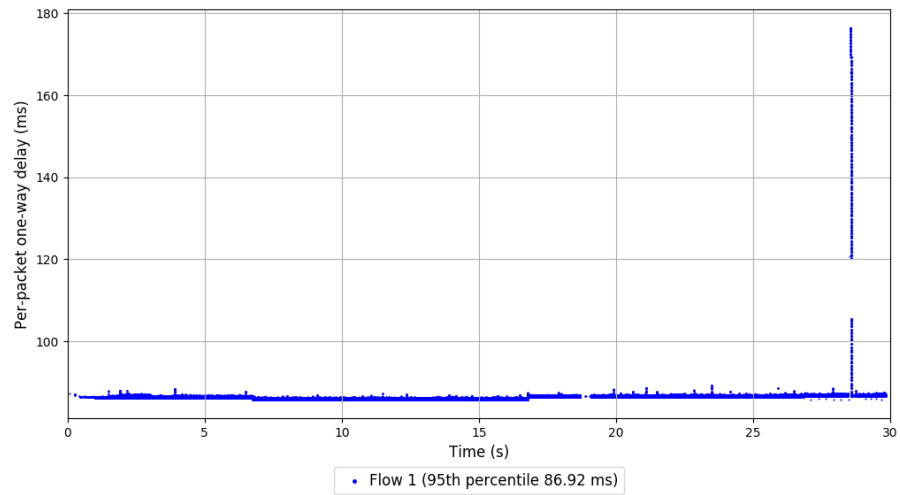
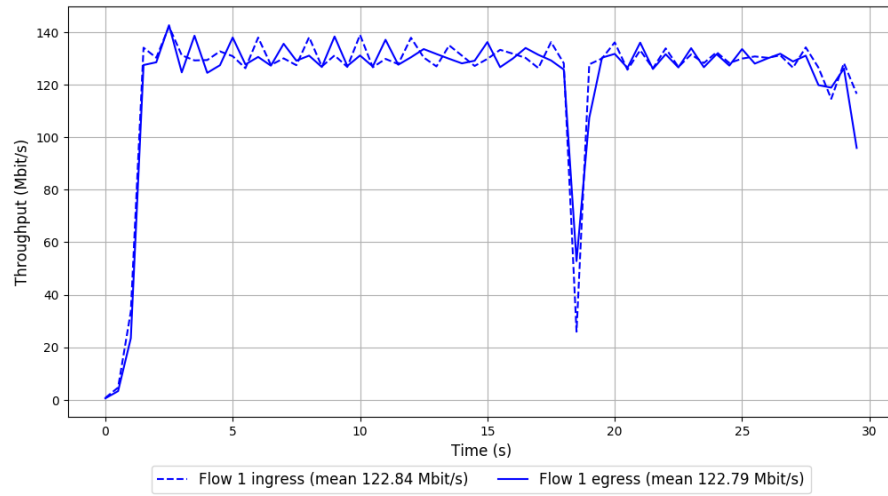
-- Flow 1:

Average throughput: 122.79 Mbit/s

95th percentile per-packet one-way delay: 86.916 ms

Loss rate: 0.67%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-30 06:13:35

End at: 2017-11-30 06:14:05

Run 6: Report of TCP BBR — Data Link

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Run 7: Statistics of TCP BBR

Start at: 2017-11-30 06:24:11

End at: 2017-11-30 06:24:41

Below is generated by plot.py at 2017-11-30 08:52:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.29 Mbit/s

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

Loss rate: 0.65%

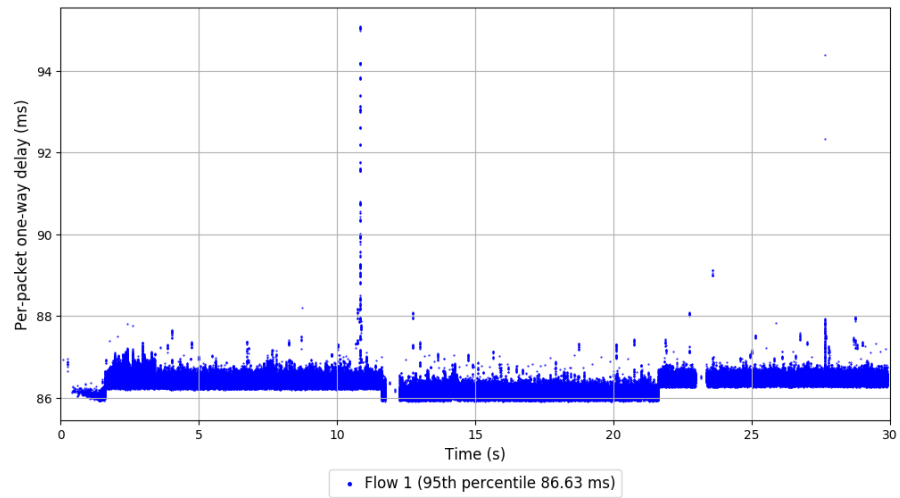
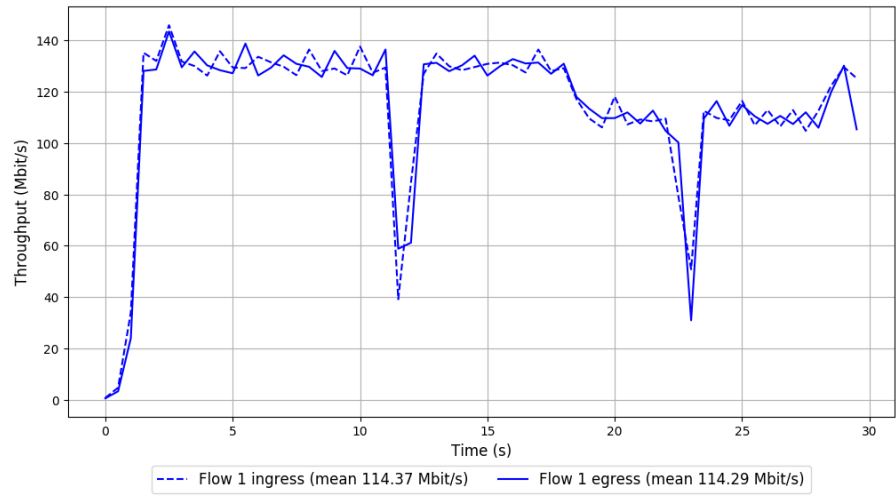
-- Flow 1:

Average throughput: 114.29 Mbit/s

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

Loss rate: 0.65%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 06:34:58

End at: 2017-11-30 06:35:28

Below is generated by plot.py at 2017-11-30 08:52:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.02 Mbit/s

95th percentile per-packet one-way delay: 87.101 ms

Loss rate: 0.61%

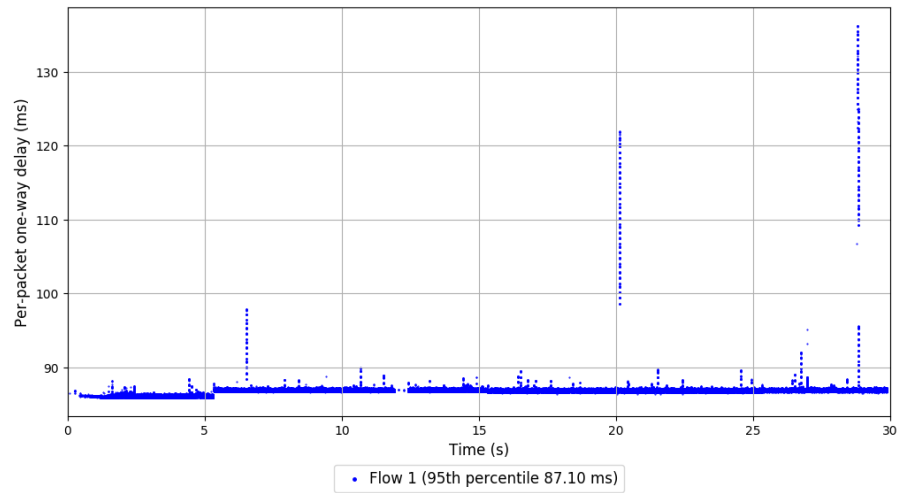
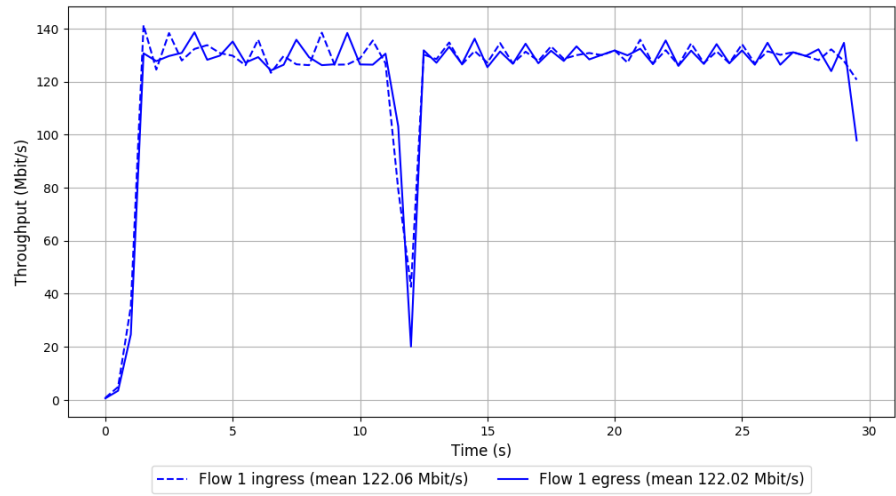
-- Flow 1:

Average throughput: 122.02 Mbit/s

95th percentile per-packet one-way delay: 87.101 ms

Loss rate: 0.61%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-30 06:45:52

End at: 2017-11-30 06:46:22

Below is generated by plot.py at 2017-11-30 08:52:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.57 Mbit/s

95th percentile per-packet one-way delay: 86.644 ms

Loss rate: 0.63%

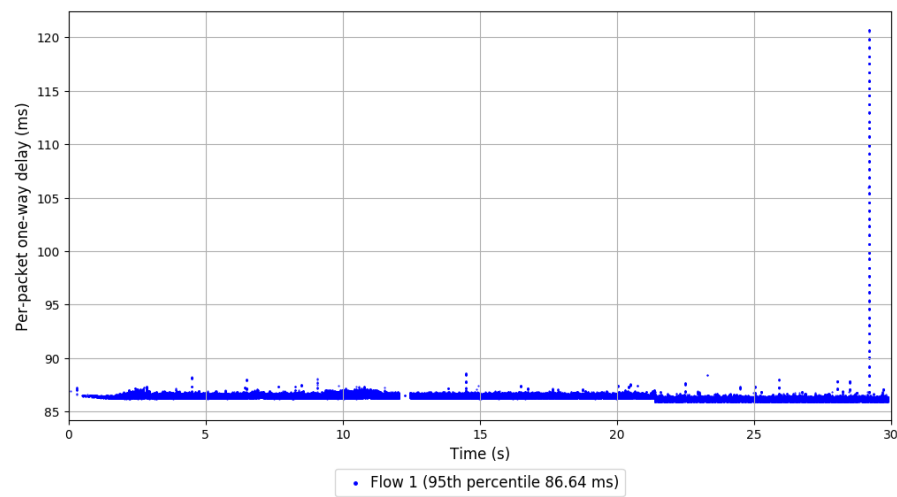
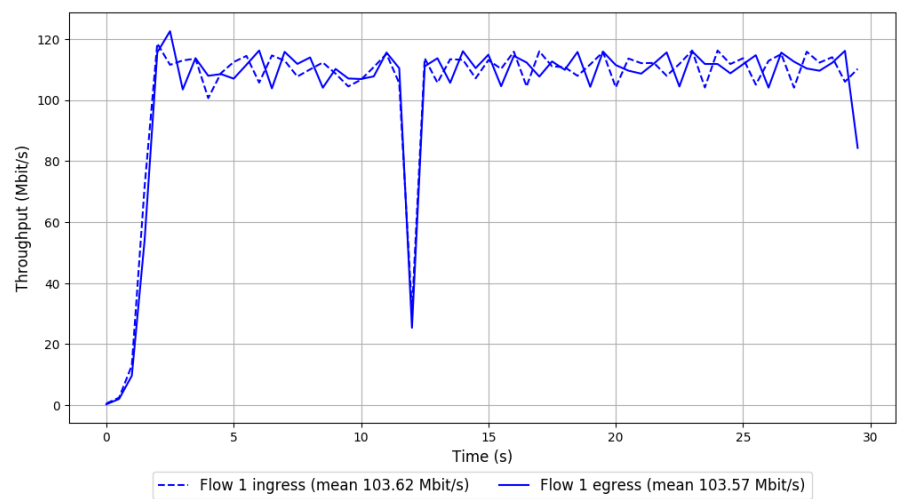
-- Flow 1:

Average throughput: 103.57 Mbit/s

95th percentile per-packet one-way delay: 86.644 ms

Loss rate: 0.63%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 06:56:50

End at: 2017-11-30 06:57:20

Below is generated by plot.py at 2017-11-30 08:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.17 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 0.56%

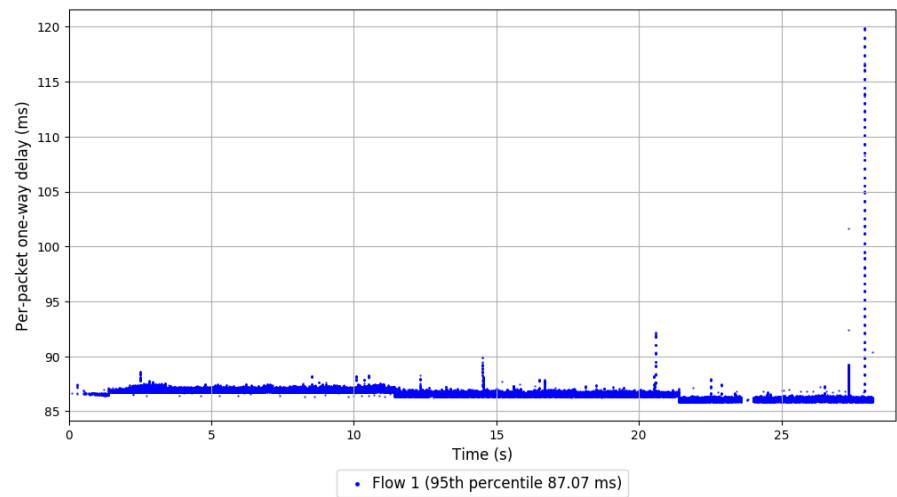
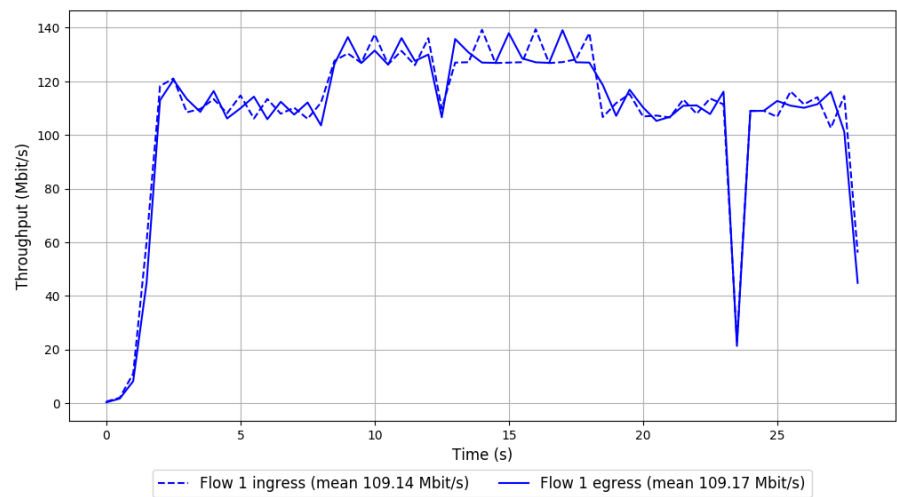
-- Flow 1:

Average throughput: 109.17 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 0.56%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 05:26:02

End at: 2017-11-30 05:26:32

Below is generated by plot.py at 2017-11-30 08:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 88.588 ms

Loss rate: 0.74%

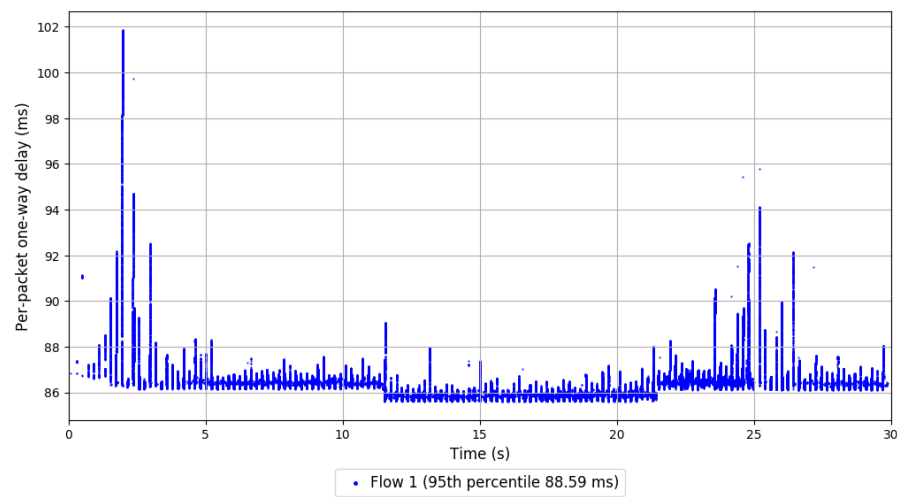
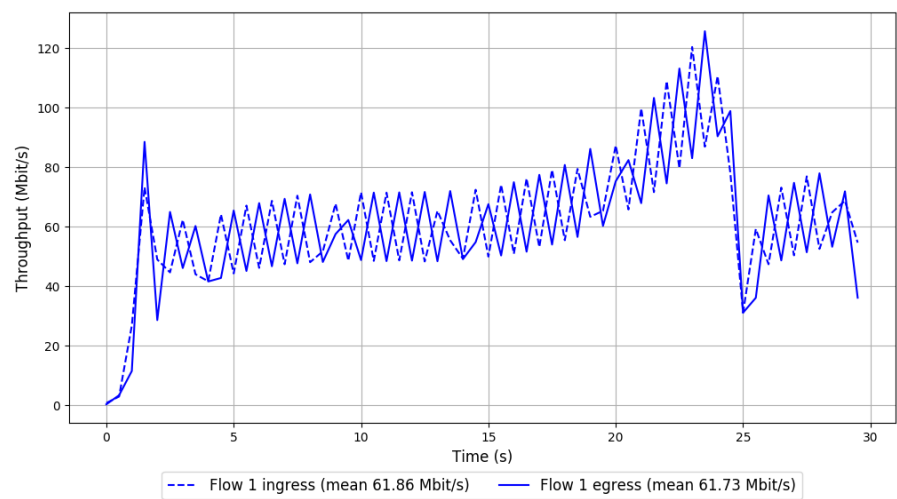
-- Flow 1:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 88.588 ms

Loss rate: 0.74%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 05:36:47

End at: 2017-11-30 05:37:17

Below is generated by plot.py at 2017-11-30 08:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.46 Mbit/s

95th percentile per-packet one-way delay: 90.823 ms

Loss rate: 0.58%

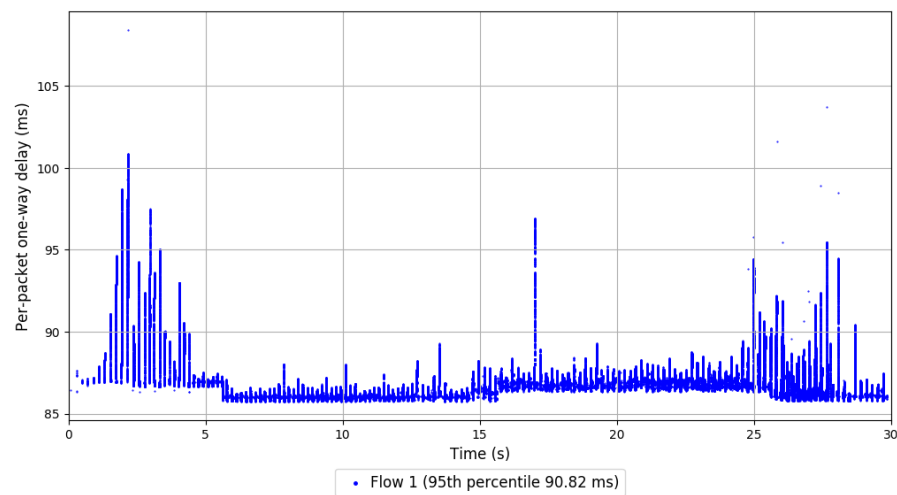
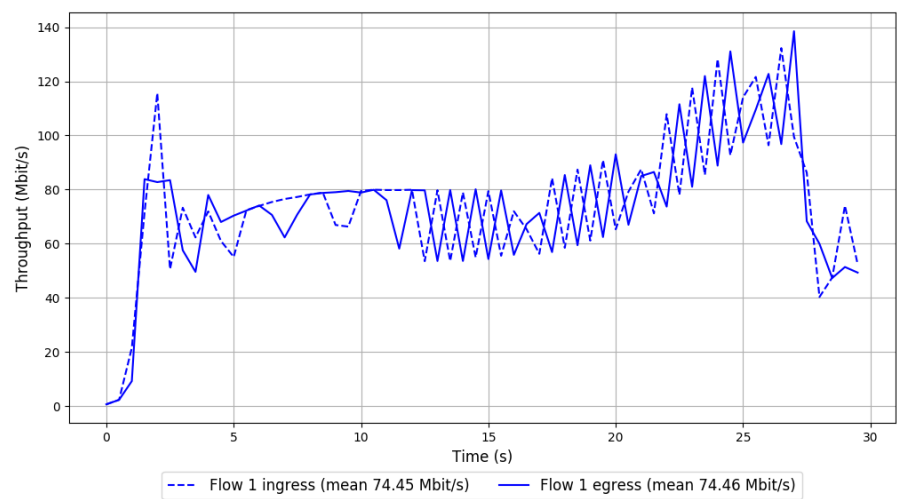
-- Flow 1:

Average throughput: 74.46 Mbit/s

95th percentile per-packet one-way delay: 90.823 ms

Loss rate: 0.58%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 05:47:50

End at: 2017-11-30 05:48:20

Below is generated by plot.py at 2017-11-30 08:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.07 Mbit/s

95th percentile per-packet one-way delay: 88.979 ms

Loss rate: 0.52%

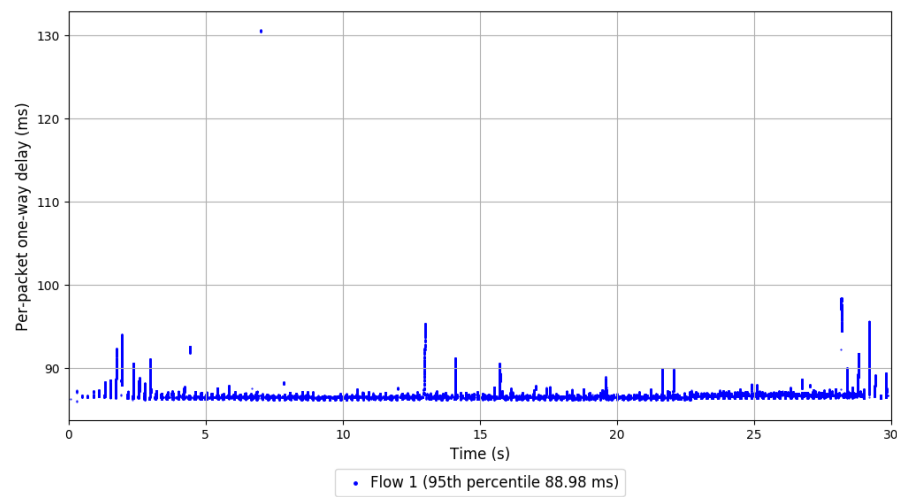
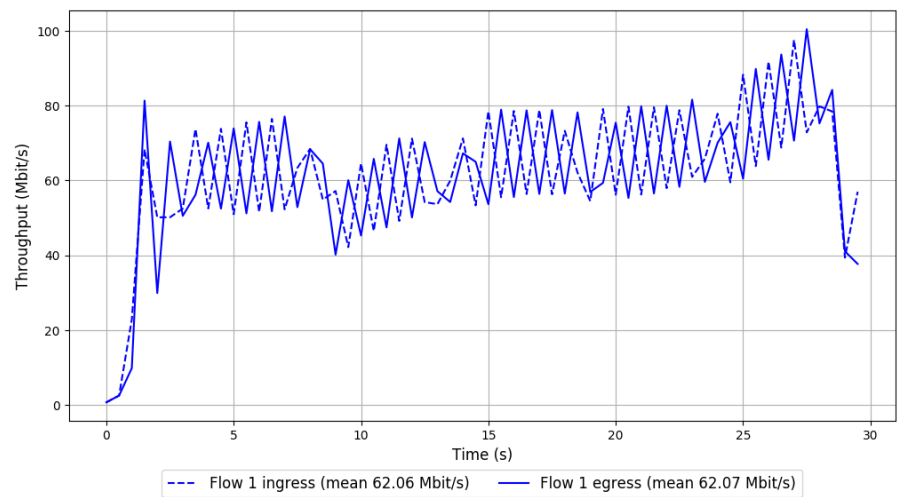
-- Flow 1:

Average throughput: 62.07 Mbit/s

95th percentile per-packet one-way delay: 88.979 ms

Loss rate: 0.52%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 05:58:39

End at: 2017-11-30 05:59:09

Below is generated by plot.py at 2017-11-30 08:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 89.360 ms

Loss rate: 0.42%

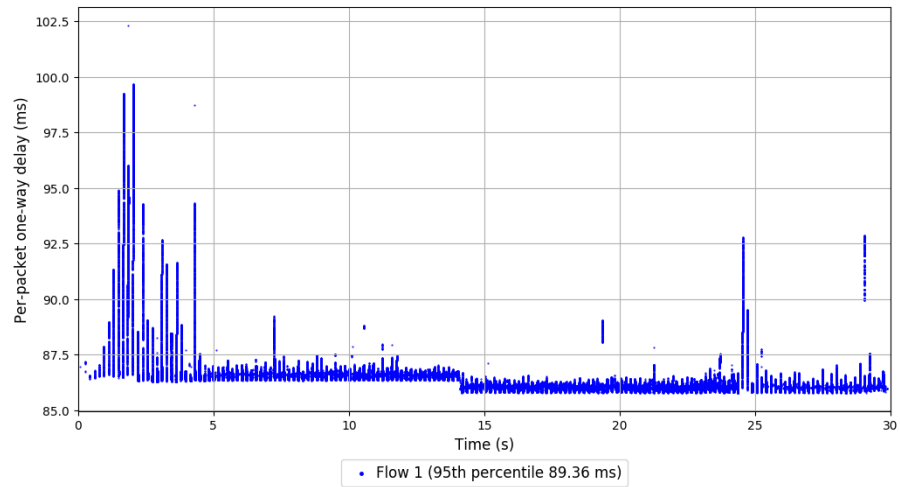
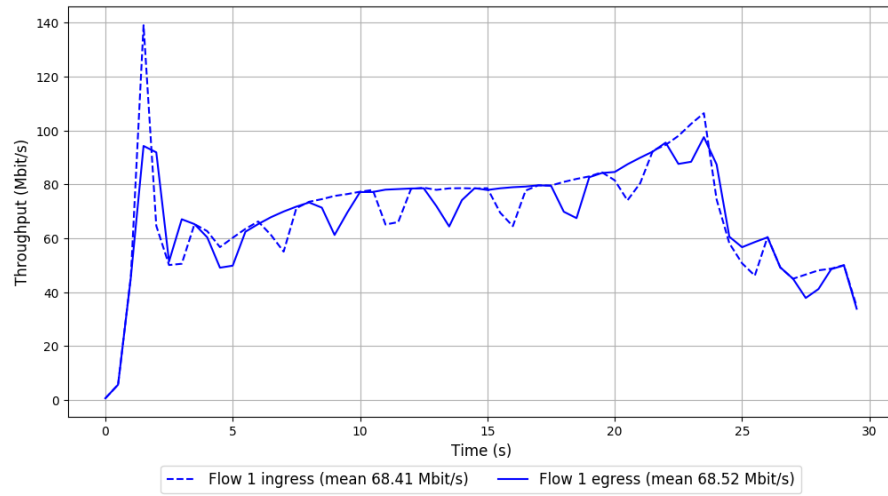
-- Flow 1:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 89.360 ms

Loss rate: 0.42%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 06:09:38

End at: 2017-11-30 06:10:08

Below is generated by plot.py at 2017-11-30 08:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 88.089 ms

Loss rate: 0.54%

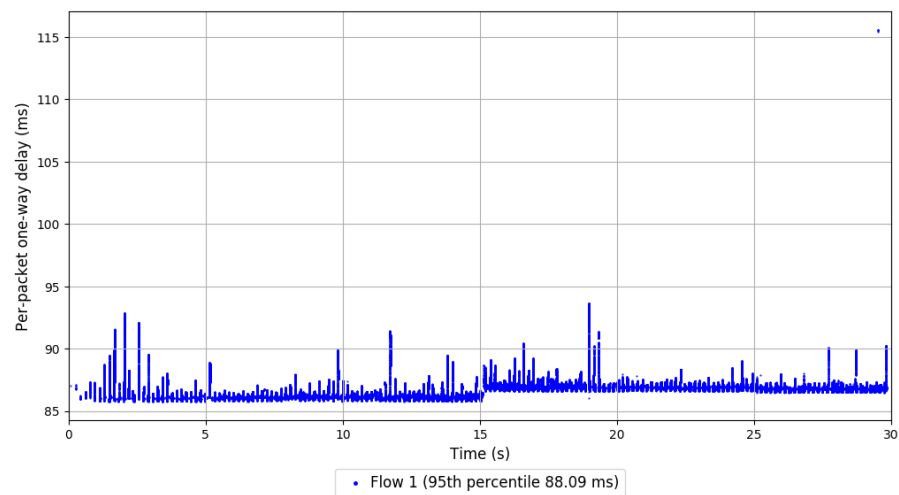
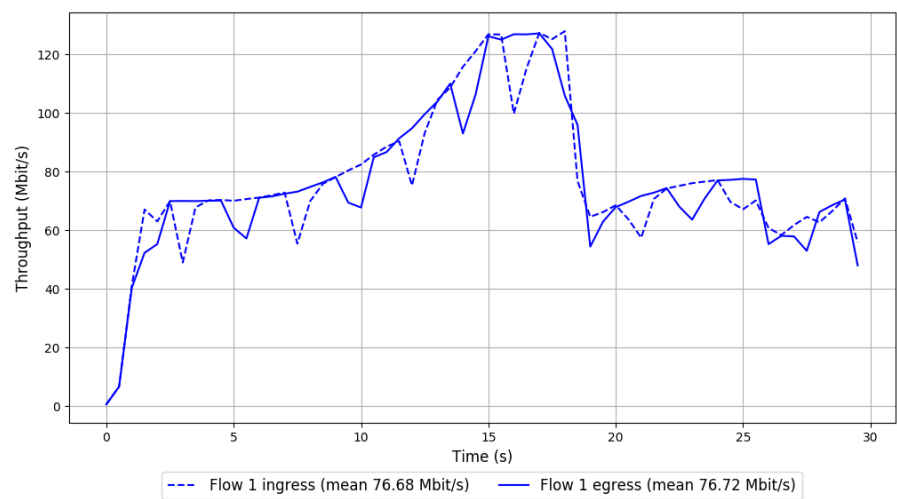
-- Flow 1:

Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 88.089 ms

Loss rate: 0.54%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 06:20:29

End at: 2017-11-30 06:20:59

Below is generated by plot.py at 2017-11-30 08:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.24 Mbit/s

95th percentile per-packet one-way delay: 87.530 ms

Loss rate: 0.67%

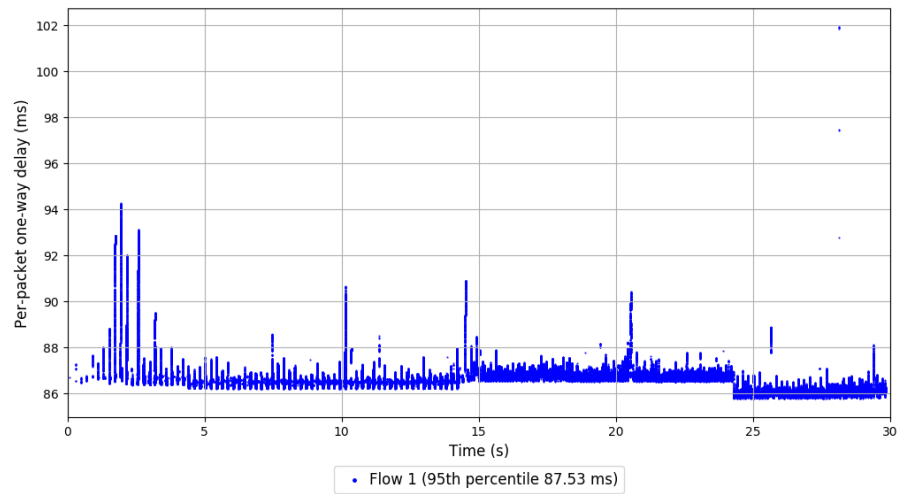
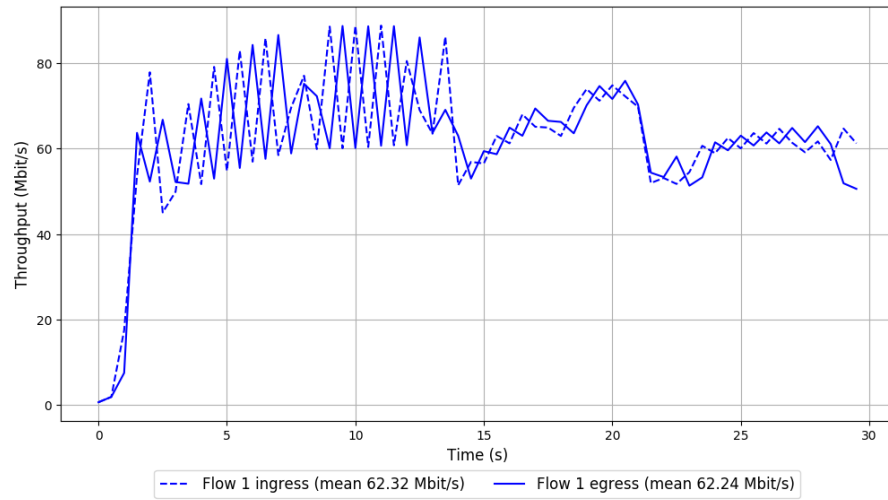
-- Flow 1:

Average throughput: 62.24 Mbit/s

95th percentile per-packet one-way delay: 87.530 ms

Loss rate: 0.67%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 06:31:01

End at: 2017-11-30 06:31:31

Below is generated by plot.py at 2017-11-30 08:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.98 Mbit/s

95th percentile per-packet one-way delay: 89.529 ms

Loss rate: 0.48%

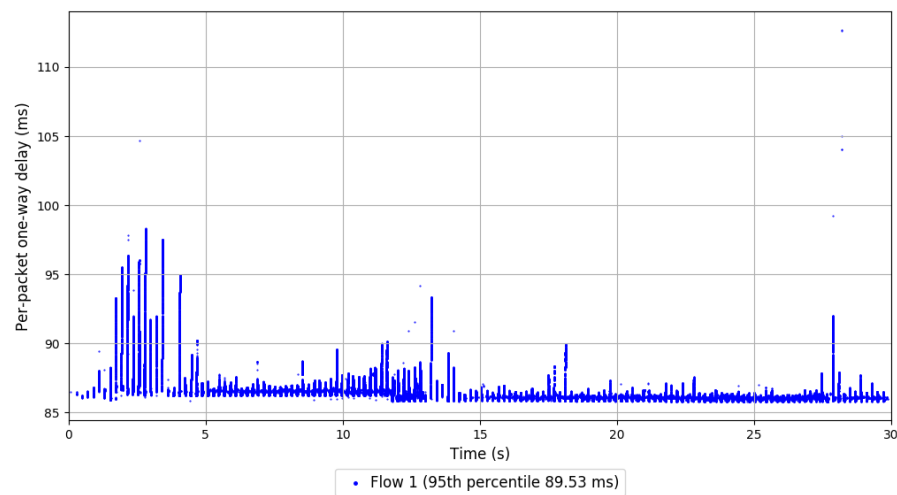
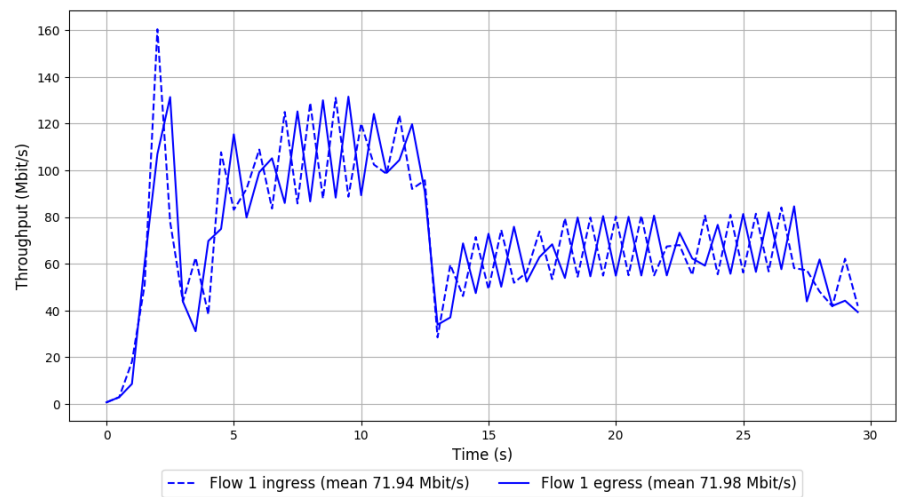
-- Flow 1:

Average throughput: 71.98 Mbit/s

95th percentile per-packet one-way delay: 89.529 ms

Loss rate: 0.48%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 06:41:56

End at: 2017-11-30 06:42:26

Below is generated by plot.py at 2017-11-30 08:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.45 Mbit/s

95th percentile per-packet one-way delay: 93.326 ms

Loss rate: 0.12%

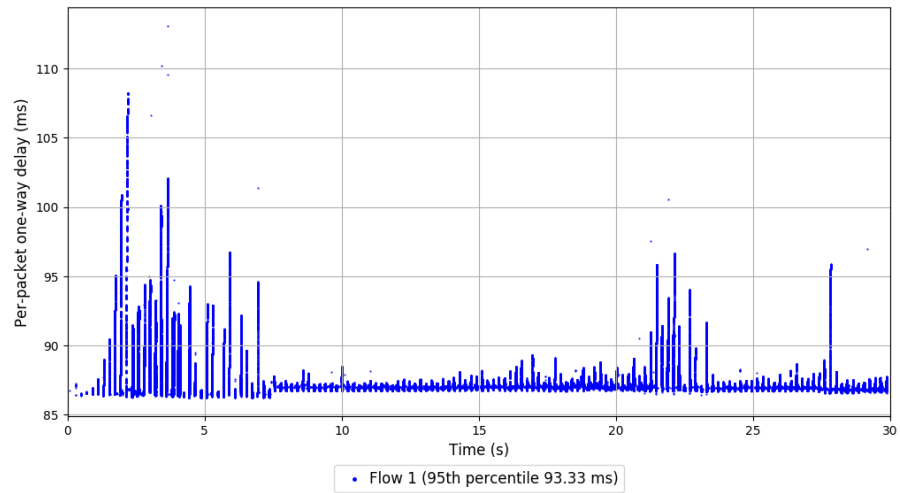
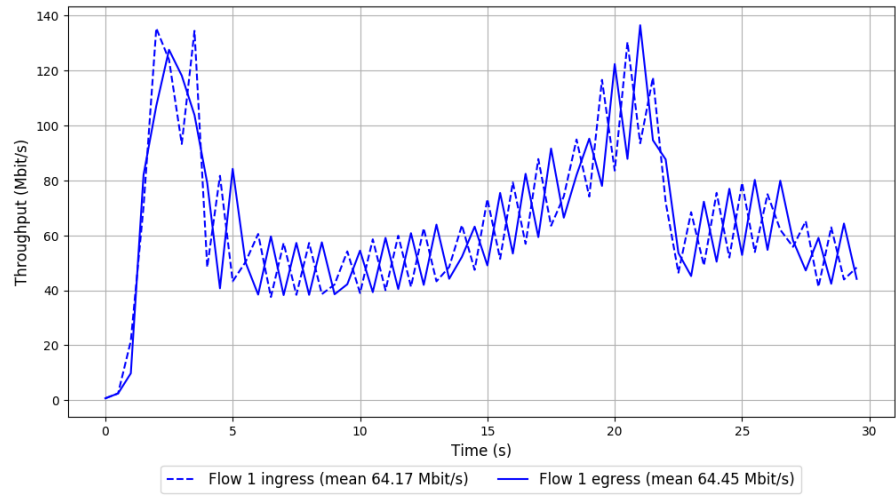
-- Flow 1:

Average throughput: 64.45 Mbit/s

95th percentile per-packet one-way delay: 93.326 ms

Loss rate: 0.12%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 06:52:55

End at: 2017-11-30 06:53:25

Below is generated by plot.py at 2017-11-30 08:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.04 Mbit/s

95th percentile per-packet one-way delay: 92.483 ms

Loss rate: 0.65%

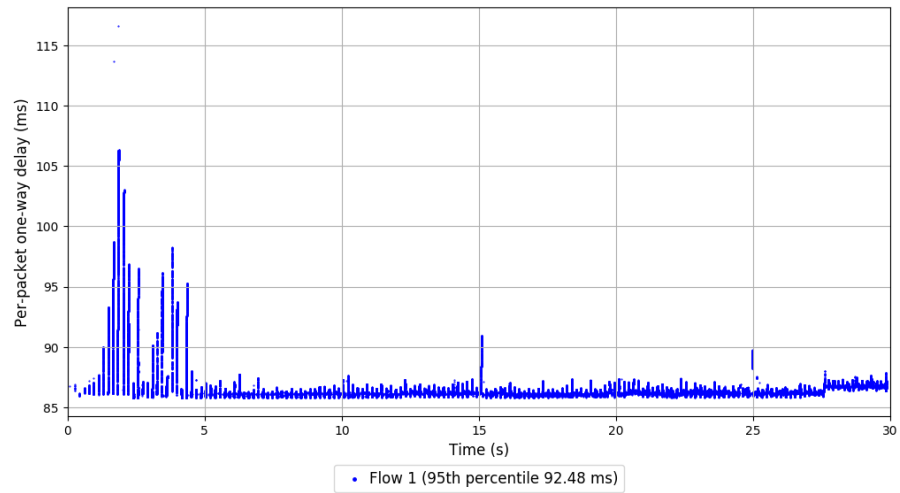
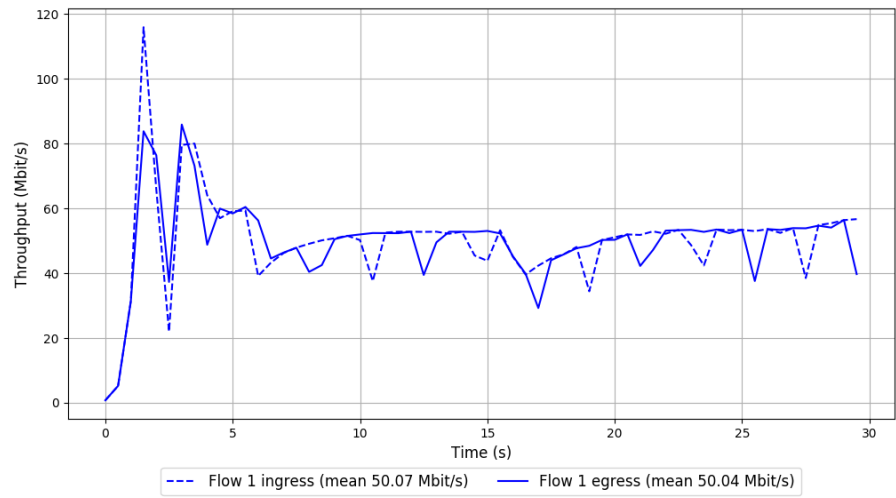
-- Flow 1:

Average throughput: 50.04 Mbit/s

95th percentile per-packet one-way delay: 92.483 ms

Loss rate: 0.65%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 07:03:51

End at: 2017-11-30 07:04:21

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.64 Mbit/s

95th percentile per-packet one-way delay: 87.828 ms

Loss rate: 0.67%

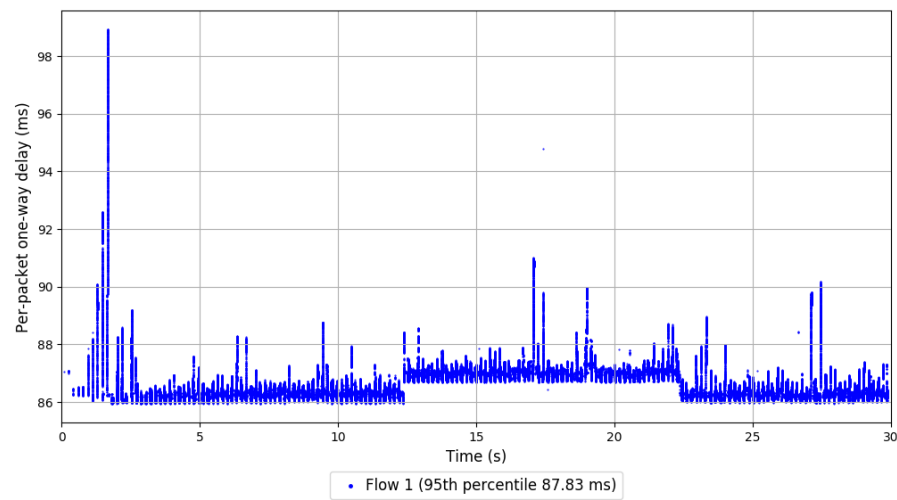
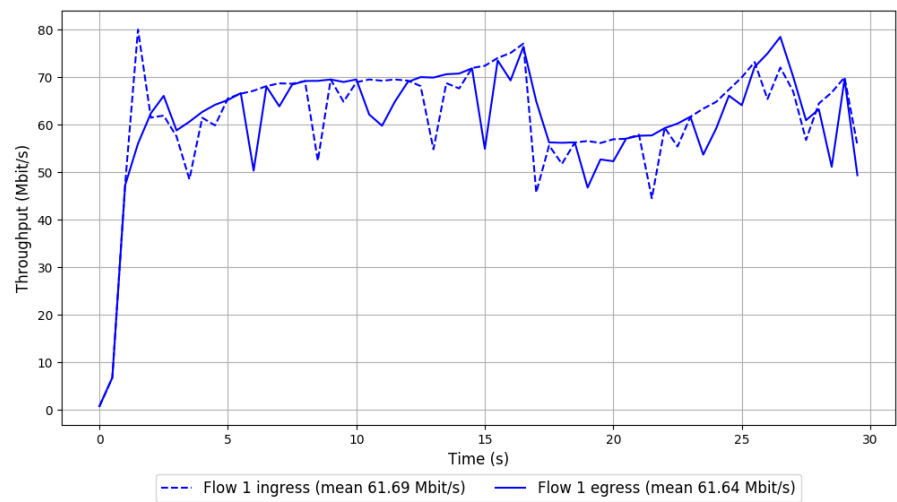
-- Flow 1:

Average throughput: 61.64 Mbit/s

95th percentile per-packet one-way delay: 87.828 ms

Loss rate: 0.67%

Run 10: Report of TCP Cubic — Data Link

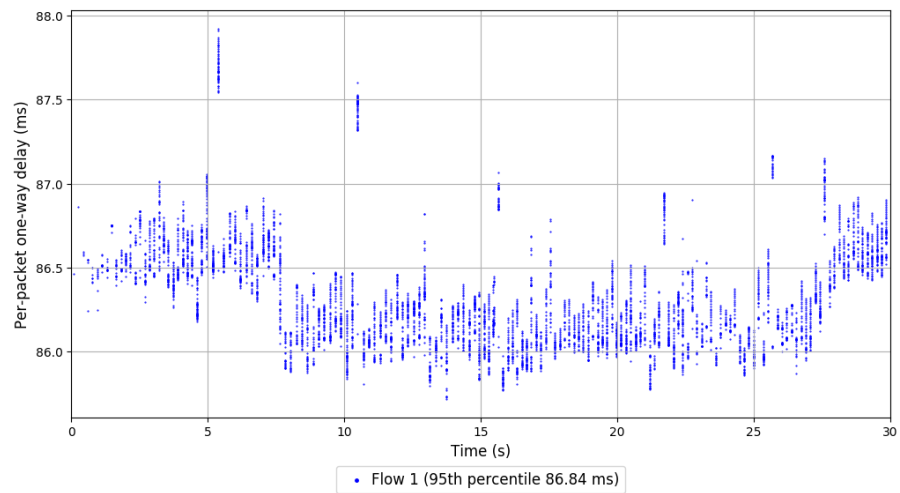
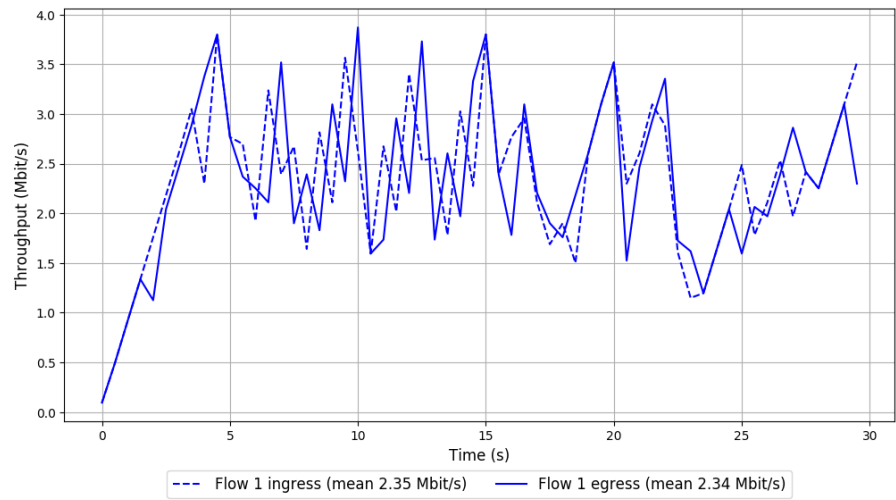


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 05:22:25
End at: 2017-11-30 05:22:55

# Below is generated by plot.py at 2017-11-30 08:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 86.844 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 86.844 ms
Loss rate: 0.90%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-30 05:32:43

End at: 2017-11-30 05:33:13

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 87.399 ms

Loss rate: 0.89%

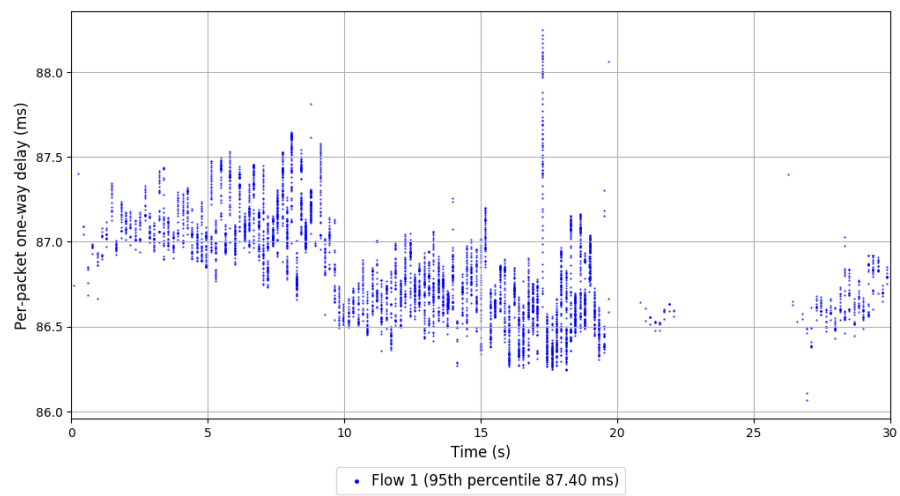
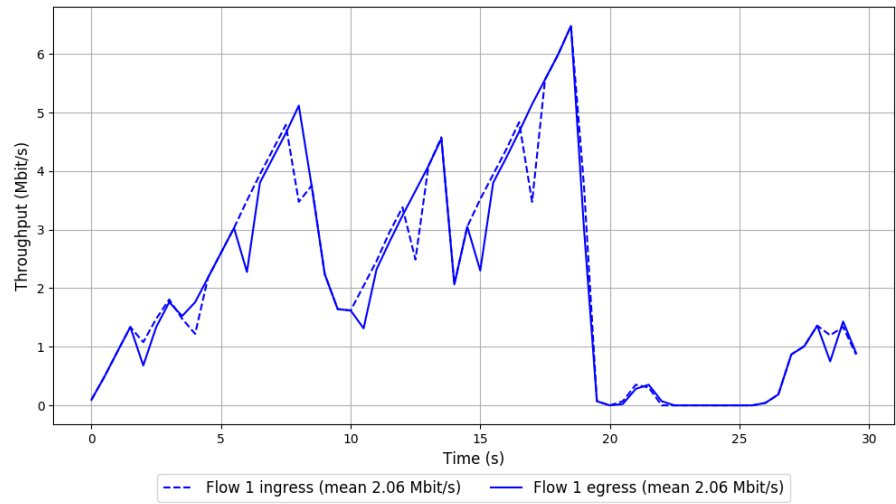
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 87.399 ms

Loss rate: 0.89%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-30 05:43:45

End at: 2017-11-30 05:44:15

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 86.875 ms

Loss rate: 1.41%

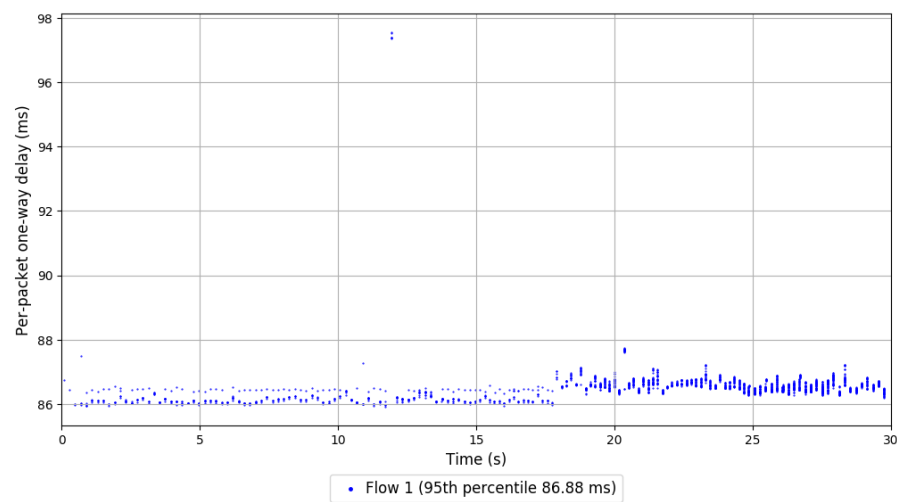
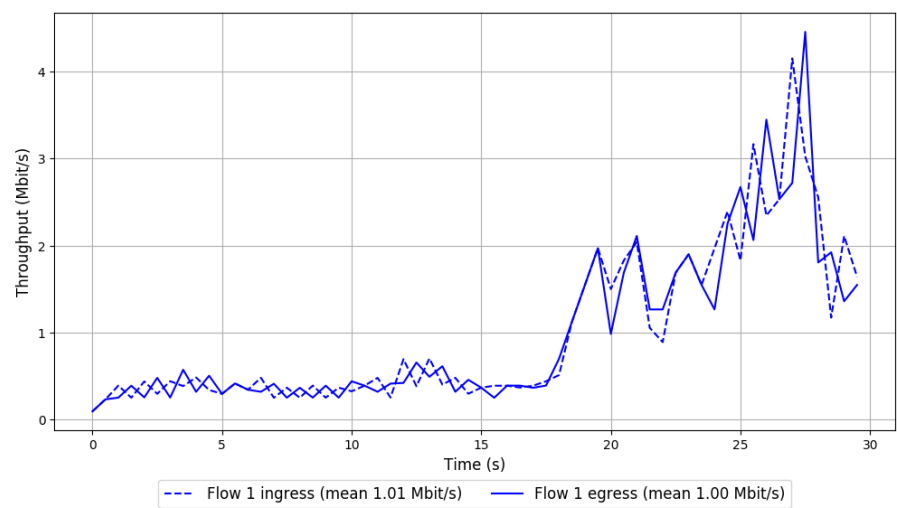
-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 86.875 ms

Loss rate: 1.41%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 05:54:33

End at: 2017-11-30 05:55:03

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 87.245 ms

Loss rate: 0.14%

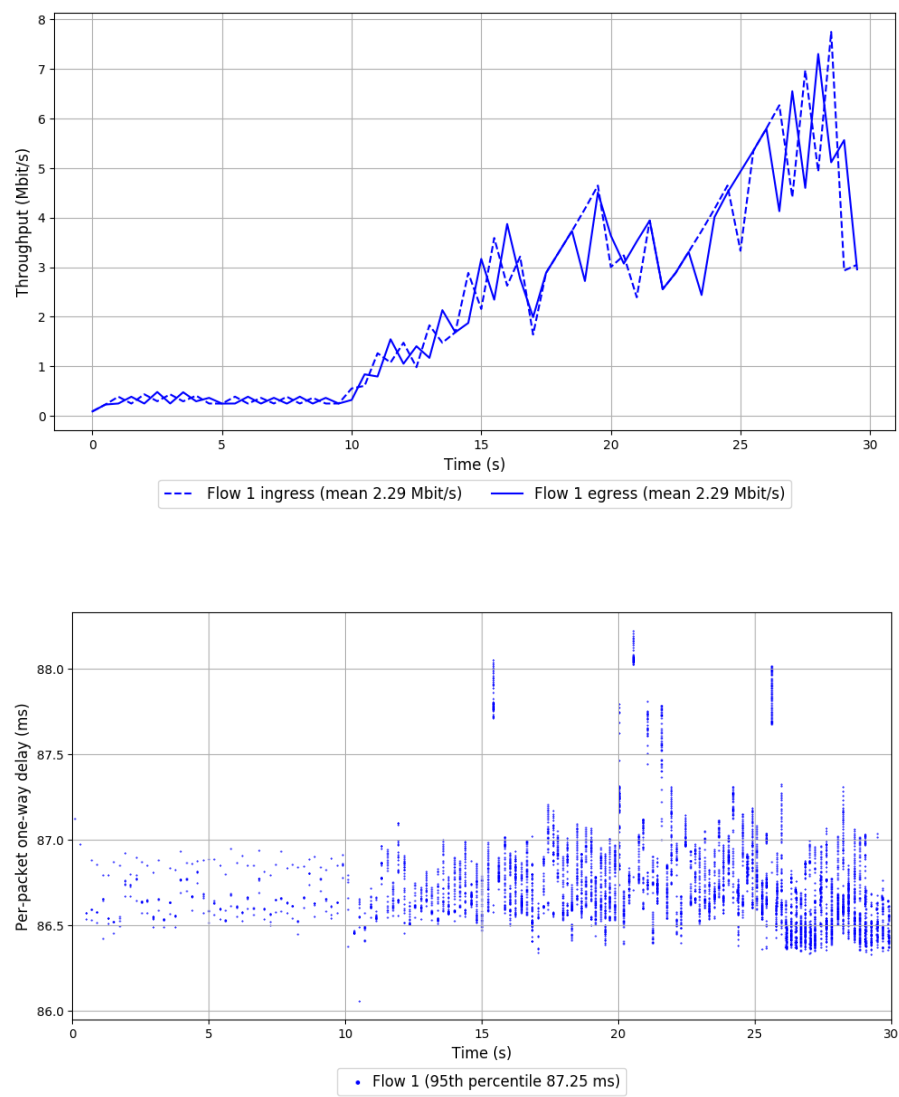
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 87.245 ms

Loss rate: 0.14%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 06:05:36

End at: 2017-11-30 06:06:06

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 87.202 ms

Loss rate: 0.84%

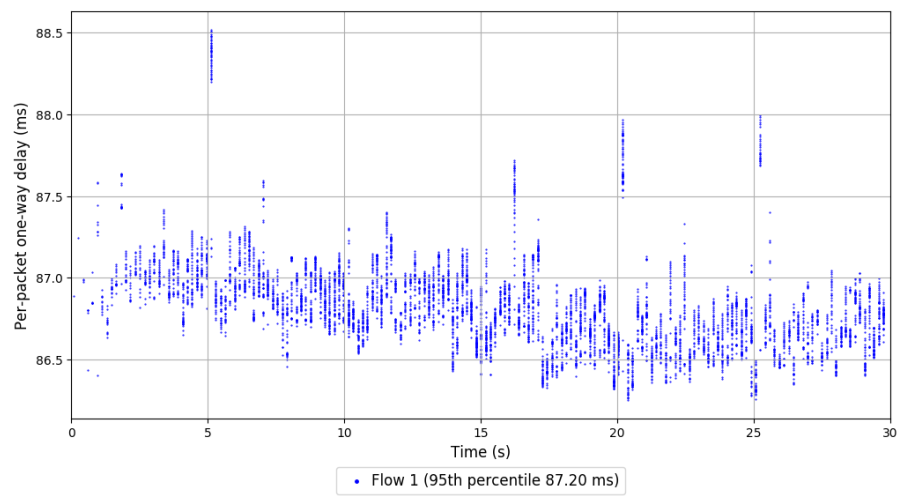
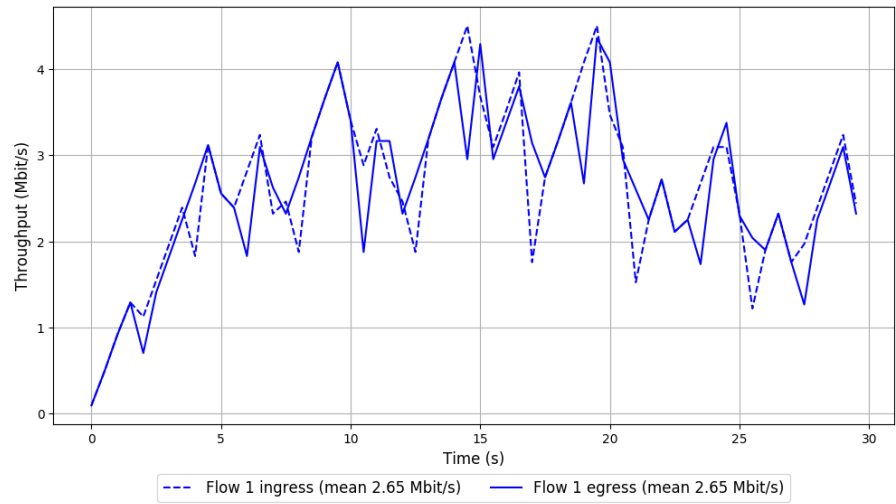
-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 87.202 ms

Loss rate: 0.84%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 06:16:29

End at: 2017-11-30 06:16:59

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 87.095 ms

Loss rate: 0.68%

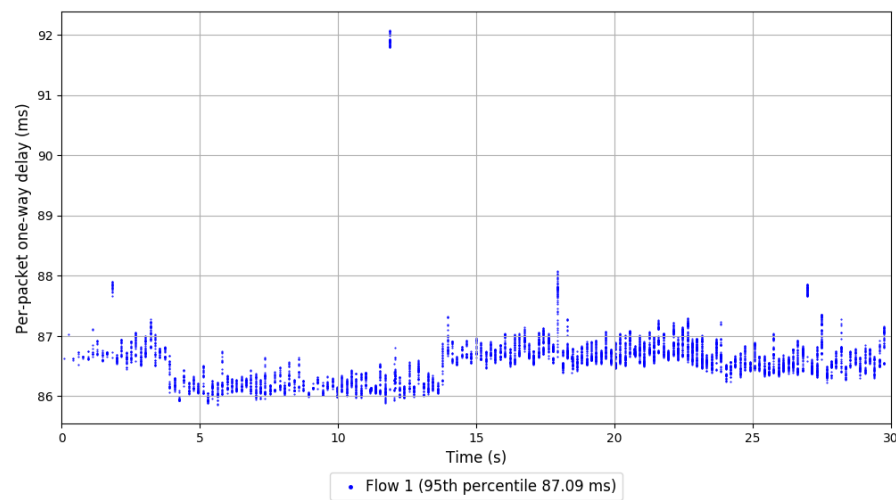
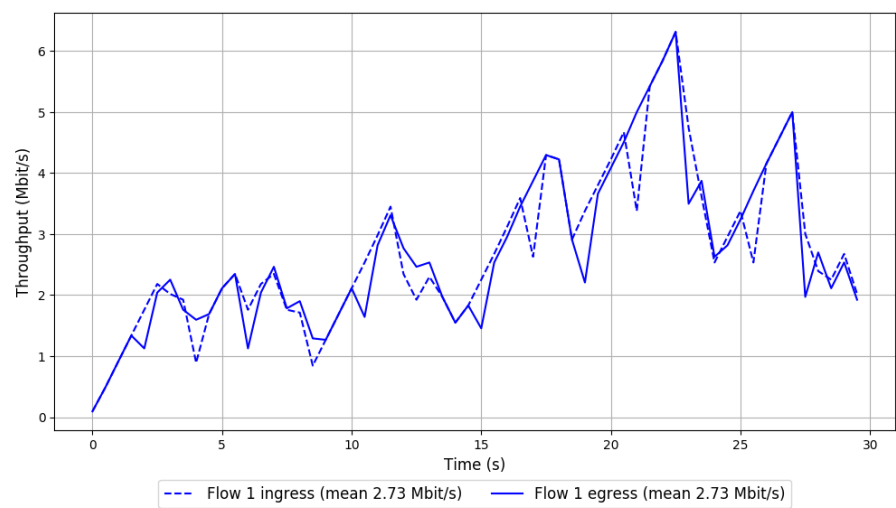
-- Flow 1:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 87.095 ms

Loss rate: 0.68%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 06:27:11

End at: 2017-11-30 06:27:41

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 87.298 ms

Loss rate: 0.35%

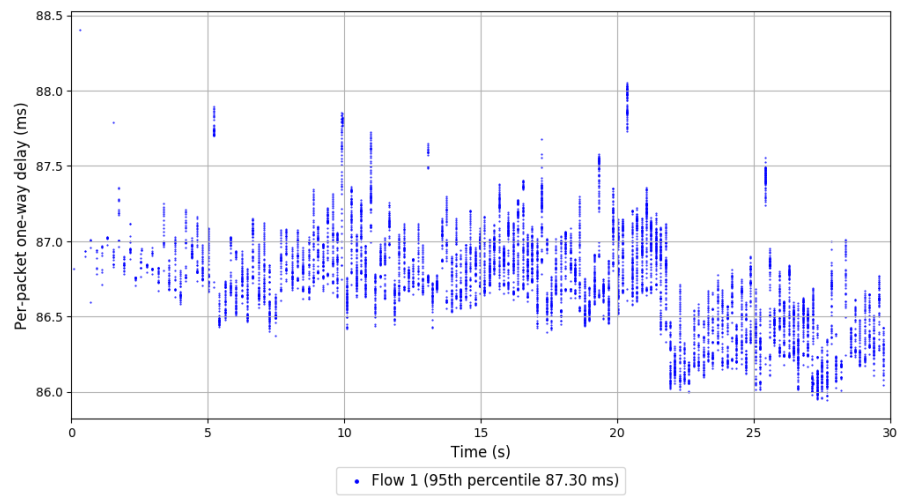
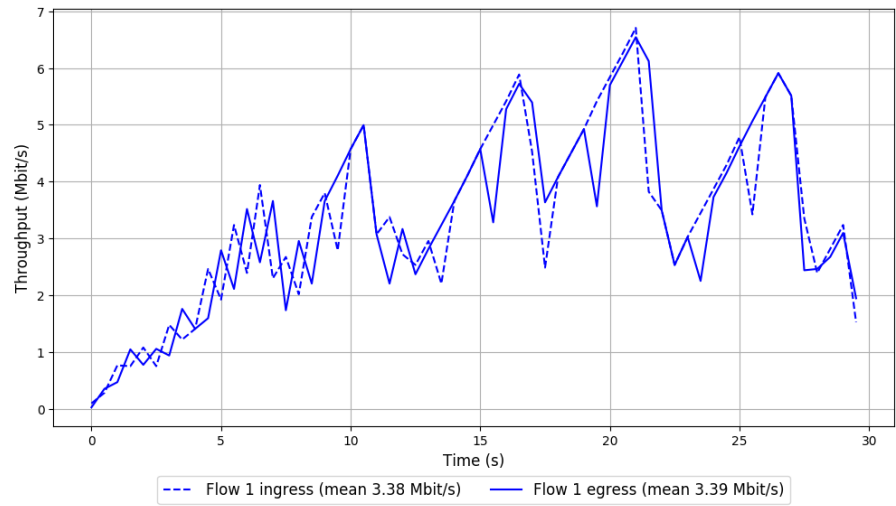
-- Flow 1:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 87.298 ms

Loss rate: 0.35%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 06:37:58

End at: 2017-11-30 06:38:28

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 87.521 ms

Loss rate: 0.90%

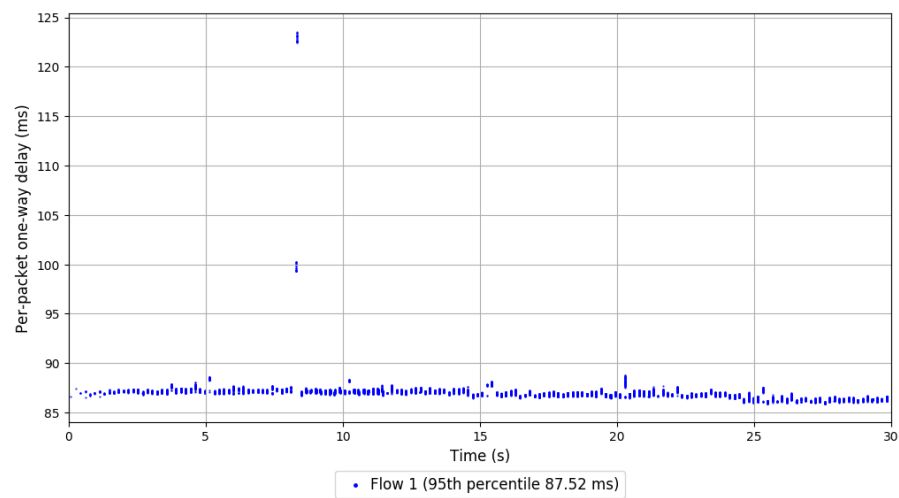
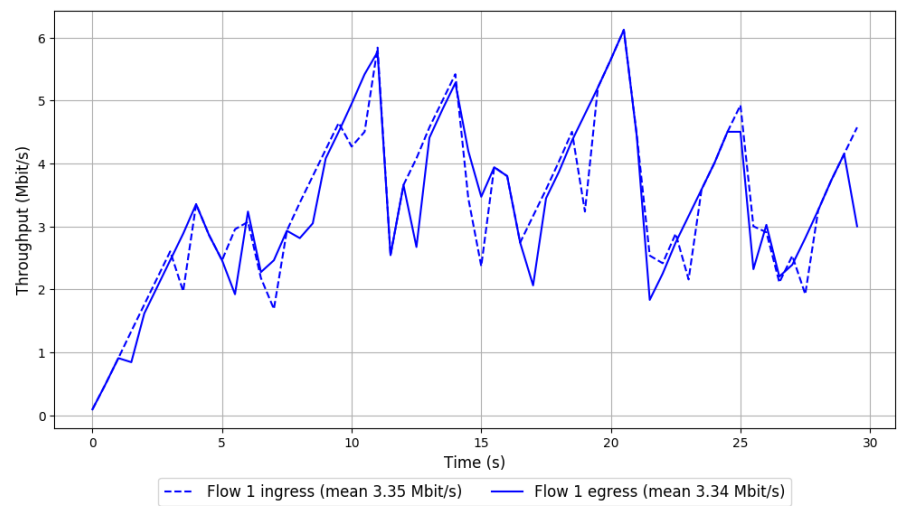
-- Flow 1:

Average throughput: 3.34 Mbit/s

95th percentile per-packet one-way delay: 87.521 ms

Loss rate: 0.90%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 06:48:50

End at: 2017-11-30 06:49:20

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 86.981 ms

Loss rate: 0.85%

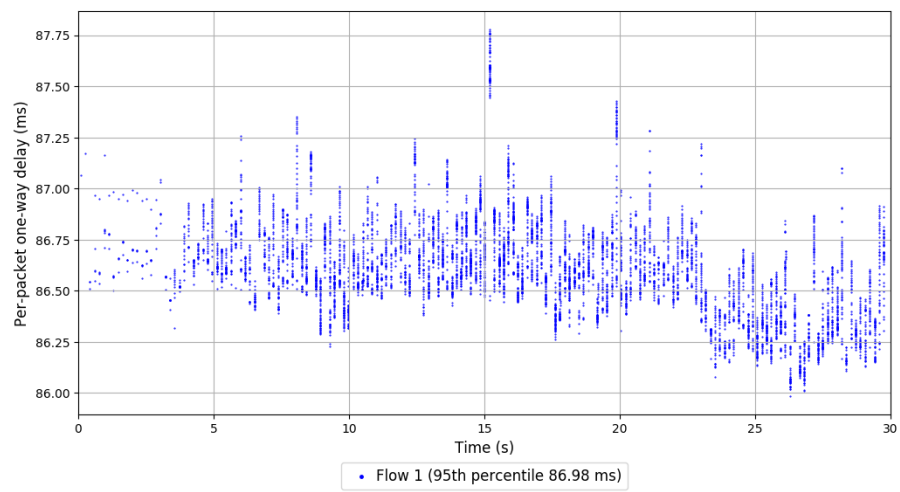
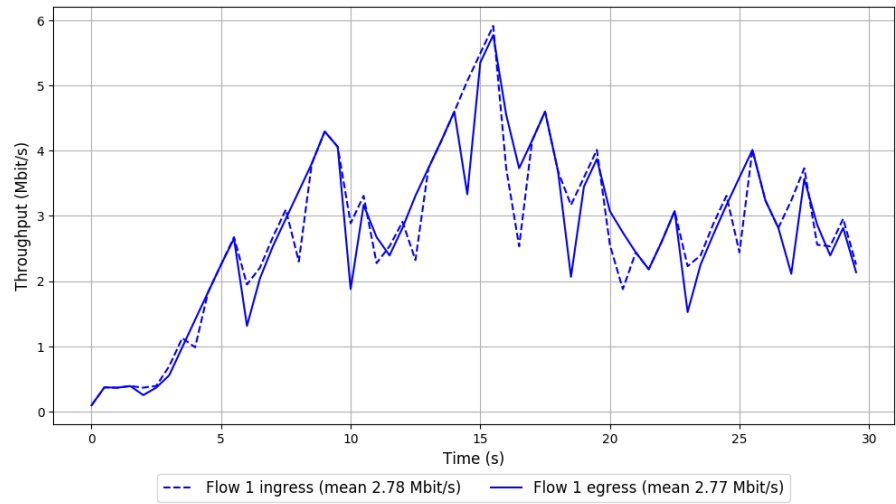
-- Flow 1:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 86.981 ms

Loss rate: 0.85%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-30 06:59:50

End at: 2017-11-30 07:00:20

Below is generated by plot.py at 2017-11-30 08:54:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 87.486 ms

Loss rate: 1.07%

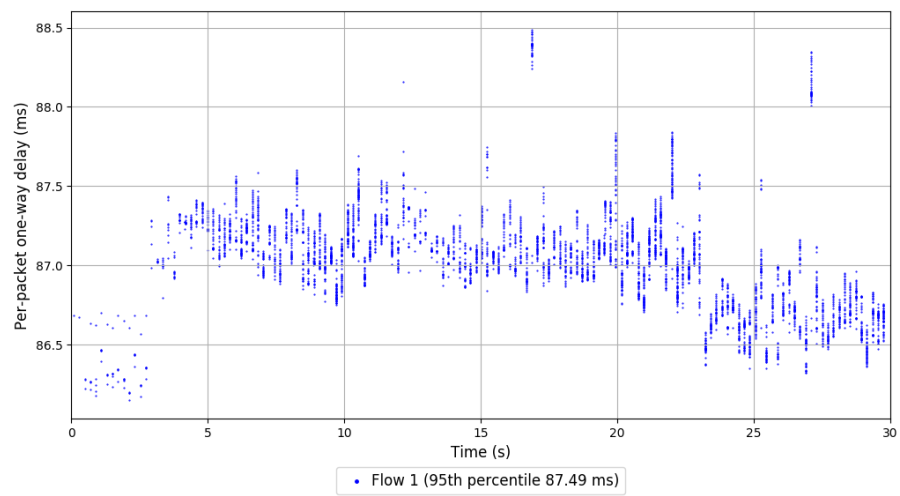
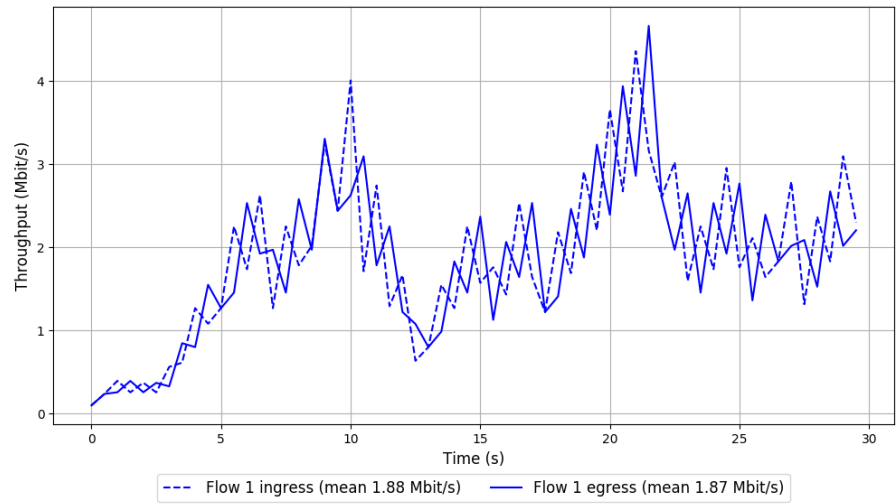
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 87.486 ms

Loss rate: 1.07%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2017-11-30 05:25:23

End at: 2017-11-30 05:25:53

Run 1: Report of PCC — Data Link

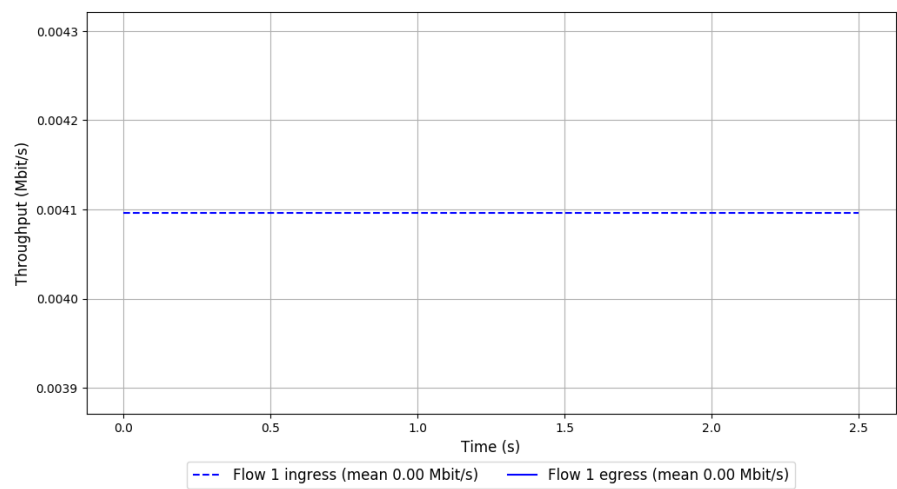


Figure is missing

Run 2: Statistics of PCC

Start at: 2017-11-30 05:35:42

End at: 2017-11-30 05:36:13

Below is generated by plot.py at 2017-11-30 09:04:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 627.78 Mbit/s

95th percentile per-packet one-way delay: 149.749 ms

Loss rate: 1.12%

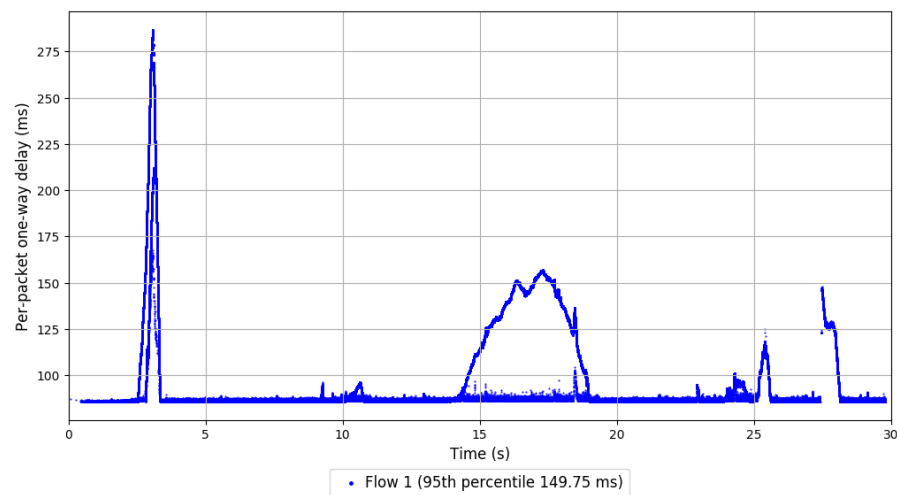
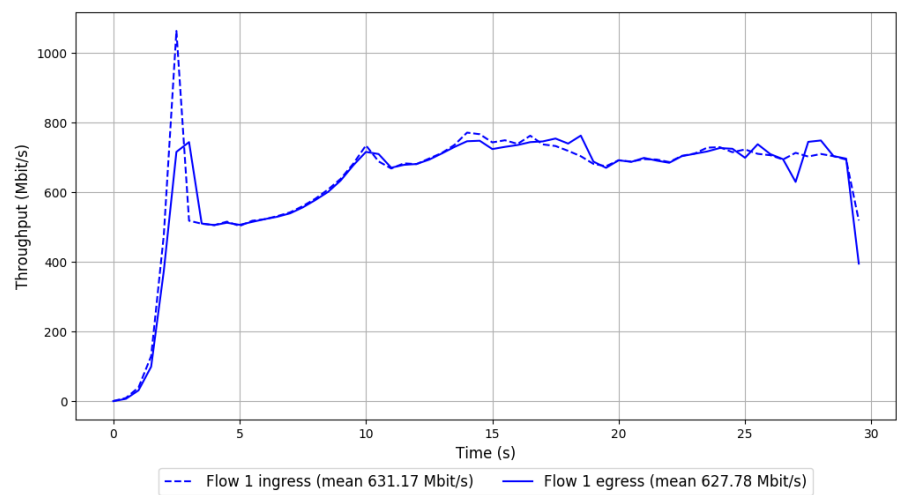
-- Flow 1:

Average throughput: 627.78 Mbit/s

95th percentile per-packet one-way delay: 149.749 ms

Loss rate: 1.12%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-30 05:46:46

End at: 2017-11-30 05:47:16

Below is generated by plot.py at 2017-11-30 09:04:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 626.98 Mbit/s

95th percentile per-packet one-way delay: 189.647 ms

Loss rate: 1.89%

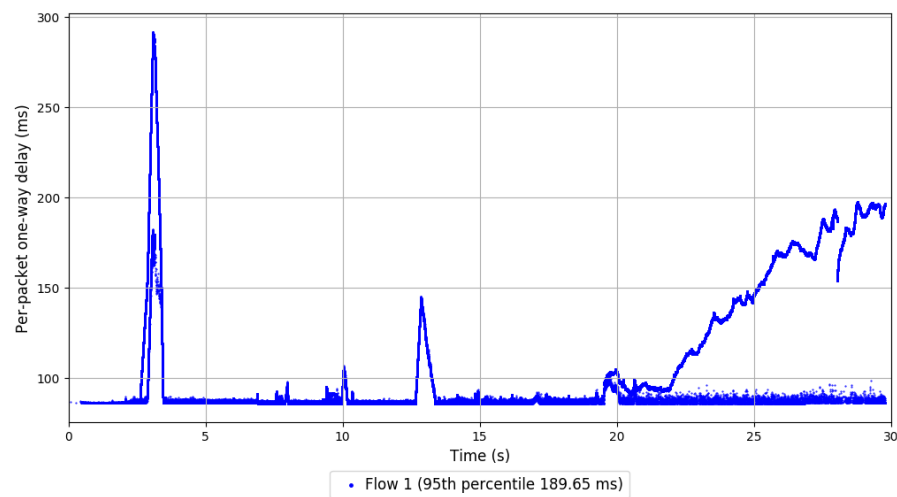
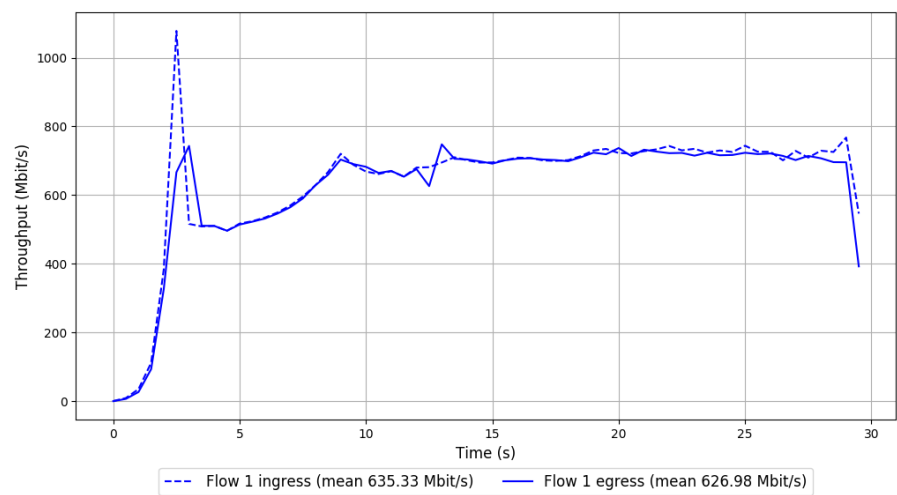
-- Flow 1:

Average throughput: 626.98 Mbit/s

95th percentile per-packet one-way delay: 189.647 ms

Loss rate: 1.89%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-30 05:57:36

End at: 2017-11-30 05:58:06

Below is generated by plot.py at 2017-11-30 09:04:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 624.61 Mbit/s

95th percentile per-packet one-way delay: 146.189 ms

Loss rate: 1.37%

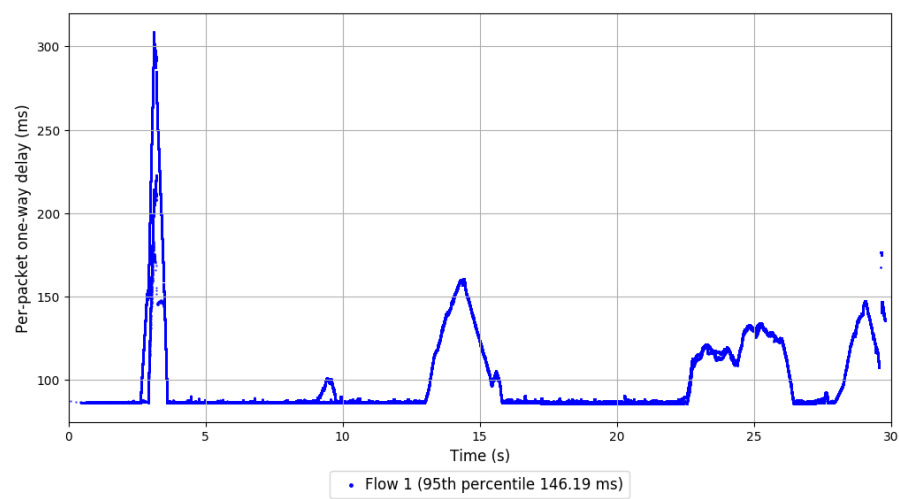
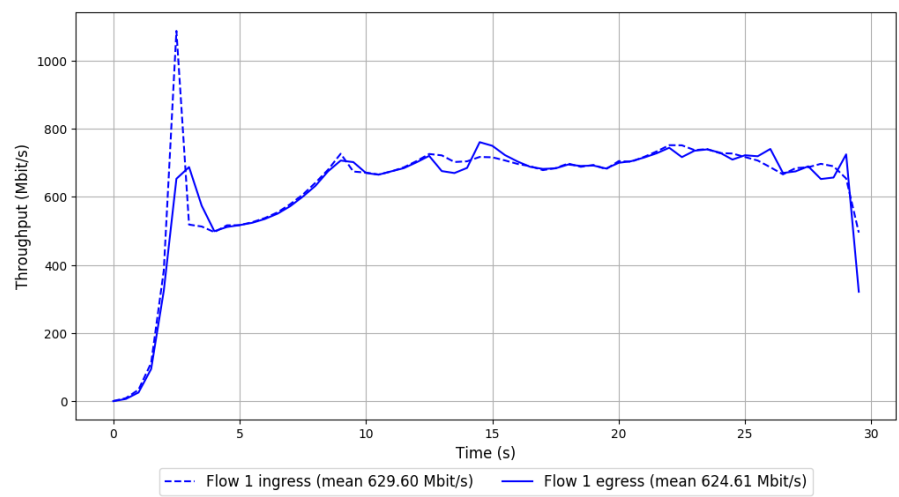
-- Flow 1:

Average throughput: 624.61 Mbit/s

95th percentile per-packet one-way delay: 146.189 ms

Loss rate: 1.37%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-30 06:08:33

End at: 2017-11-30 06:09:03

Below is generated by plot.py at 2017-11-30 09:04:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 634.75 Mbit/s

95th percentile per-packet one-way delay: 107.842 ms

Loss rate: 1.10%

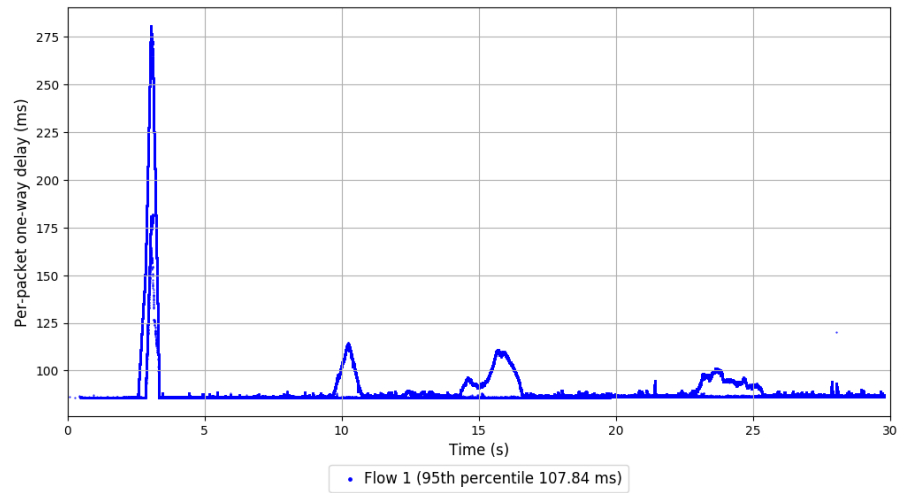
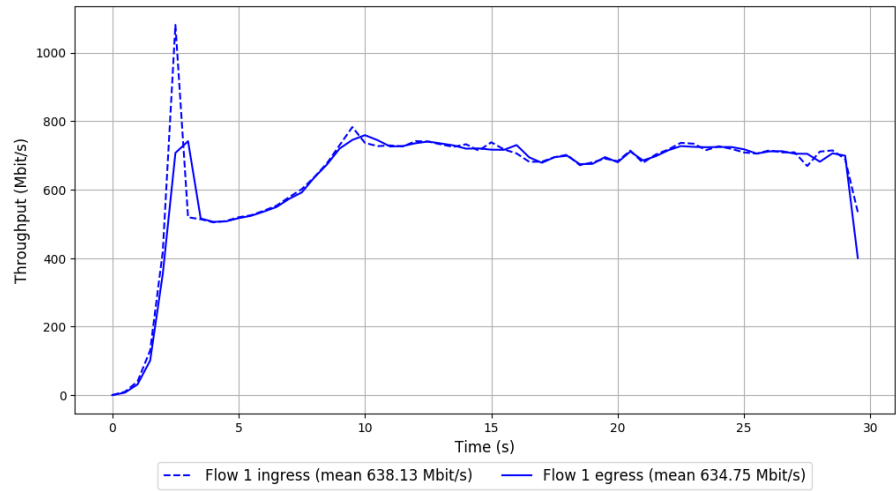
-- Flow 1:

Average throughput: 634.75 Mbit/s

95th percentile per-packet one-way delay: 107.842 ms

Loss rate: 1.10%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-30 06:19:27

End at: 2017-11-30 06:19:57

Below is generated by plot.py at 2017-11-30 09:04:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.83 Mbit/s

95th percentile per-packet one-way delay: 129.560 ms

Loss rate: 1.64%

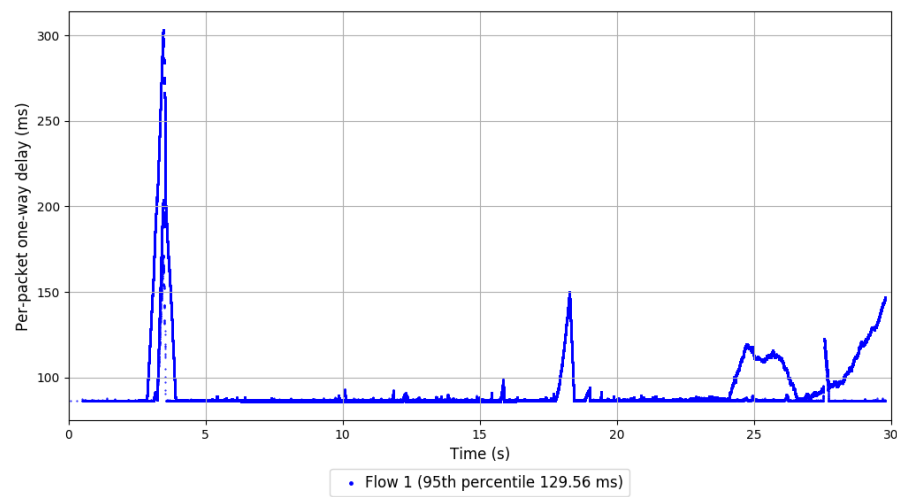
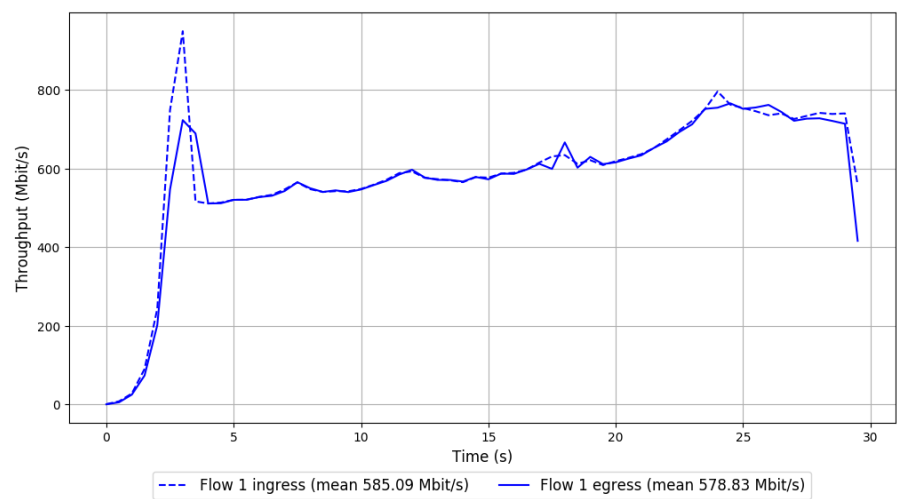
-- Flow 1:

Average throughput: 578.83 Mbit/s

95th percentile per-packet one-way delay: 129.560 ms

Loss rate: 1.64%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-30 06:29:58

End at: 2017-11-30 06:30:28

Below is generated by plot.py at 2017-11-30 09:04:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 613.68 Mbit/s

95th percentile per-packet one-way delay: 133.174 ms

Loss rate: 1.30%

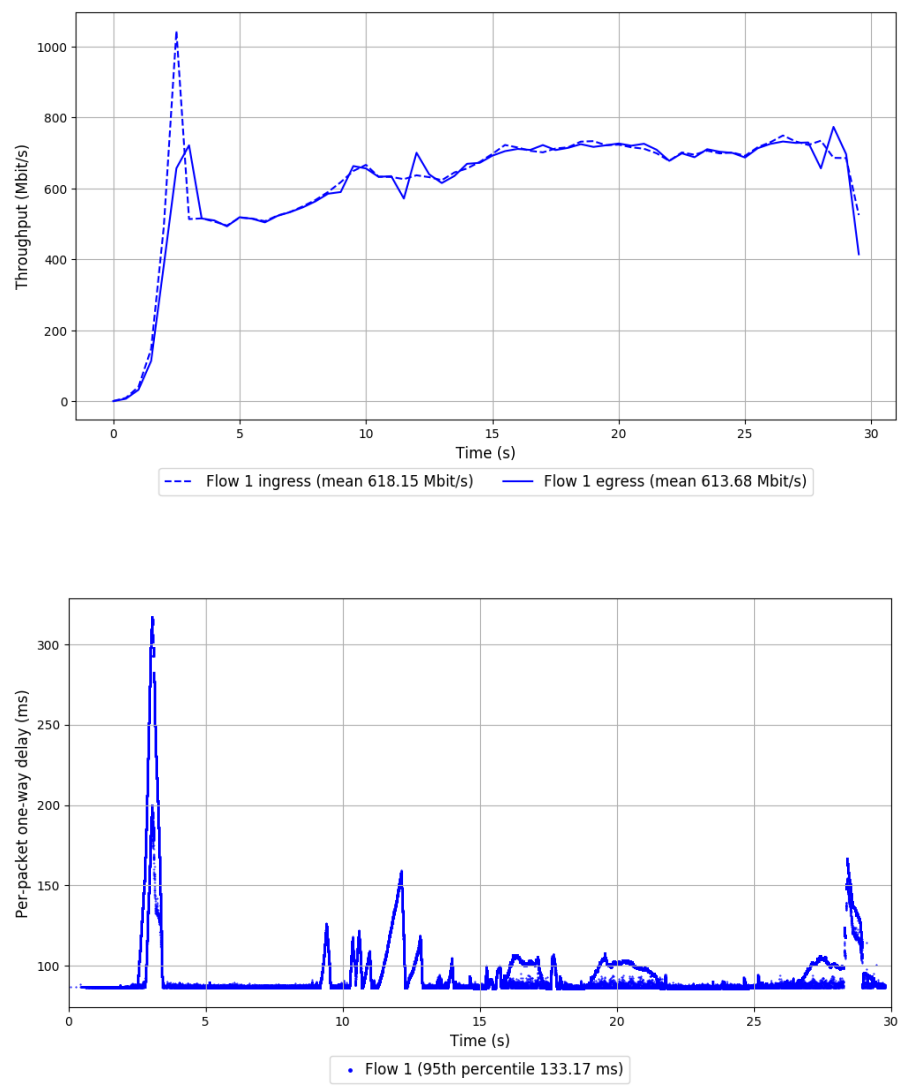
-- Flow 1:

Average throughput: 613.68 Mbit/s

95th percentile per-packet one-way delay: 133.174 ms

Loss rate: 1.30%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 06:40:52

End at: 2017-11-30 06:41:22

Below is generated by plot.py at 2017-11-30 09:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 641.14 Mbit/s

95th percentile per-packet one-way delay: 184.412 ms

Loss rate: 1.58%

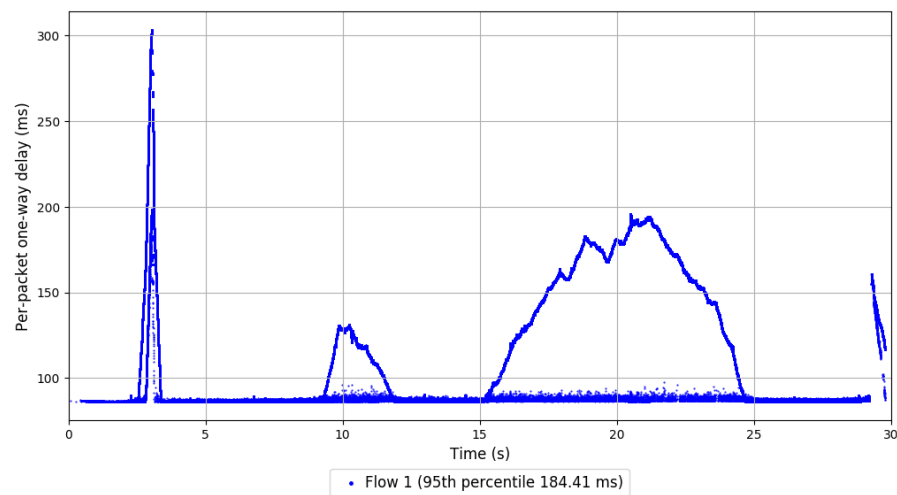
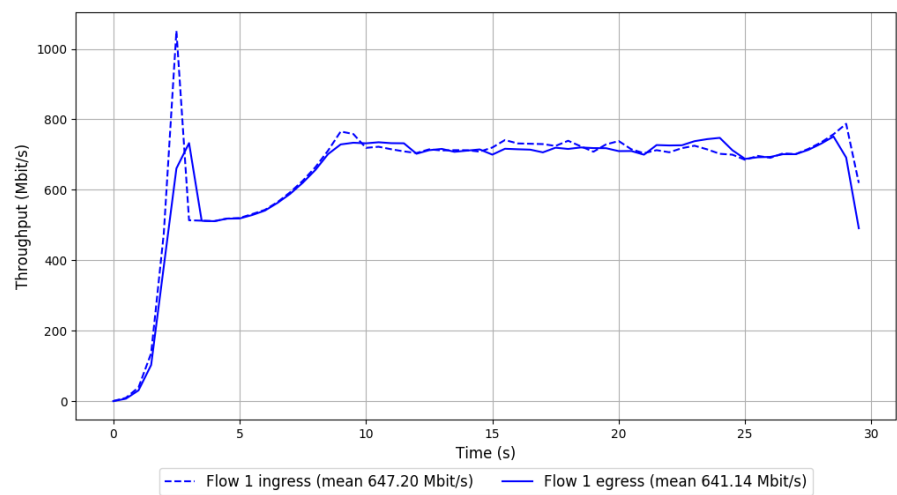
-- Flow 1:

Average throughput: 641.14 Mbit/s

95th percentile per-packet one-way delay: 184.412 ms

Loss rate: 1.58%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-30 06:51:52

End at: 2017-11-30 06:52:22

Below is generated by plot.py at 2017-11-30 09:05:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 631.49 Mbit/s

95th percentile per-packet one-way delay: 117.018 ms

Loss rate: 1.20%

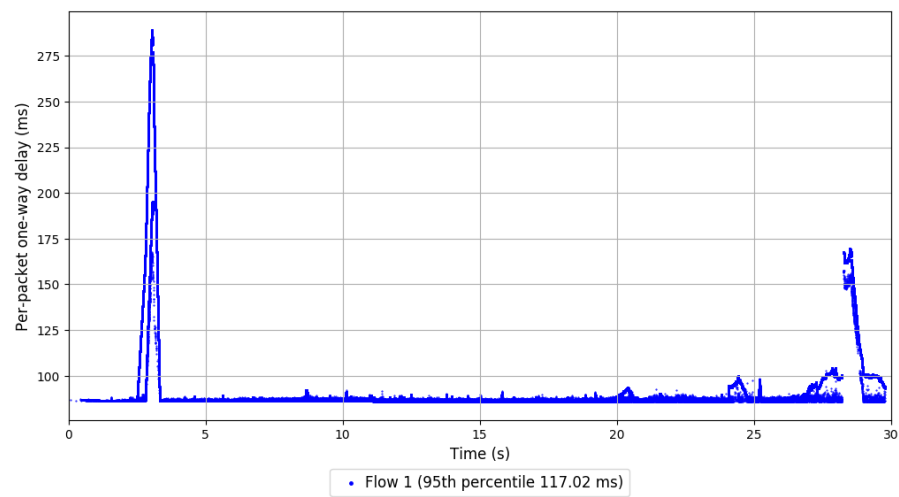
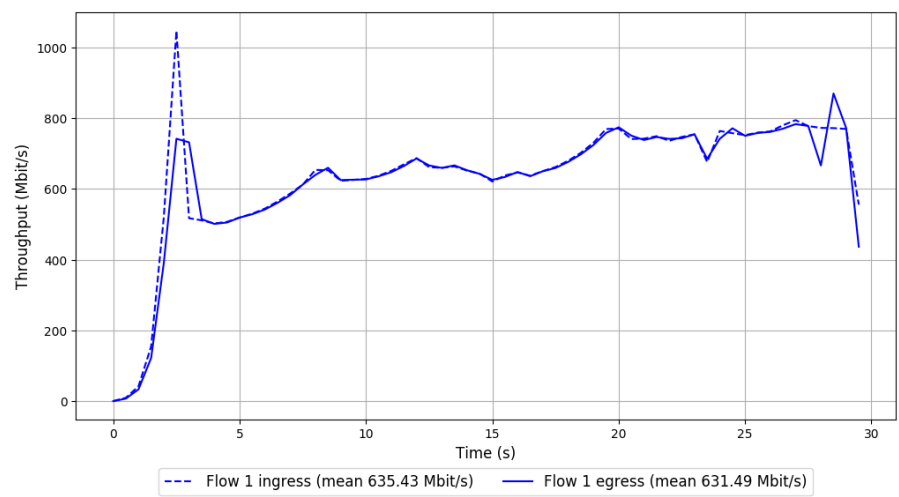
-- Flow 1:

Average throughput: 631.49 Mbit/s

95th percentile per-packet one-way delay: 117.018 ms

Loss rate: 1.20%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-30 07:02:48

End at: 2017-11-30 07:03:18

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 604.77 Mbit/s

95th percentile per-packet one-way delay: 132.933 ms

Loss rate: 3.21%

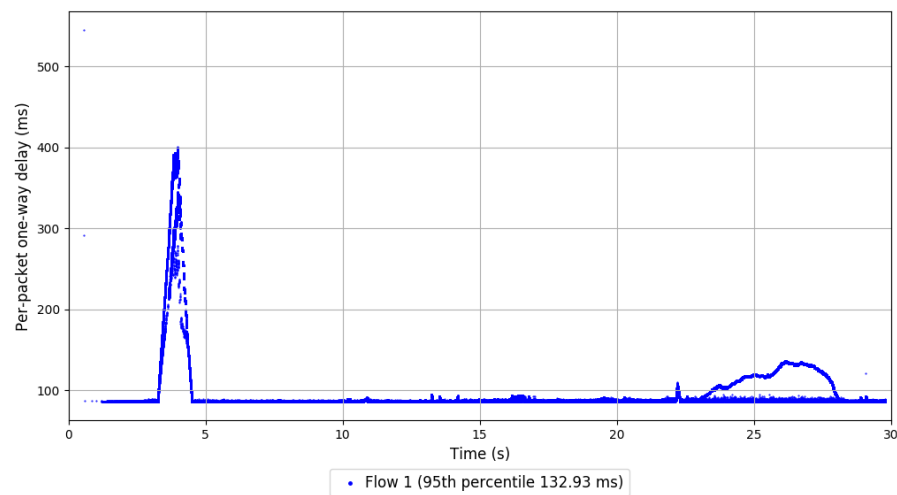
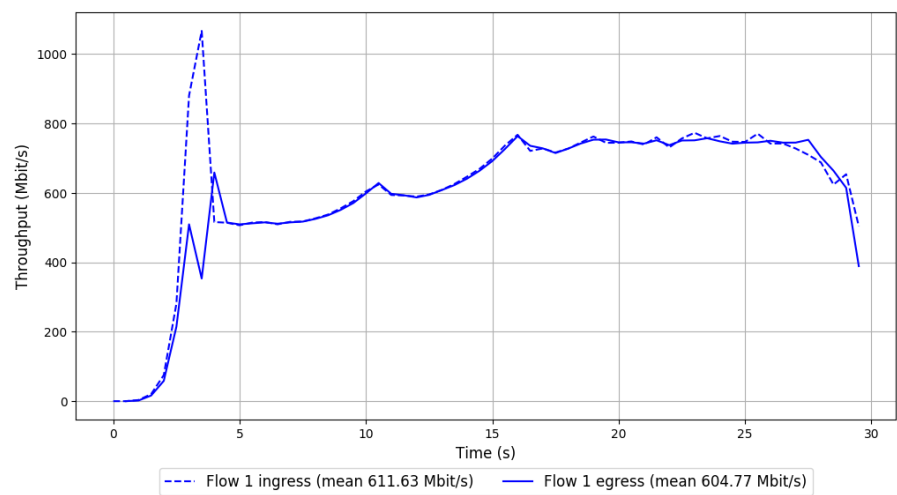
-- Flow 1:

Average throughput: 604.77 Mbit/s

95th percentile per-packet one-way delay: 132.933 ms

Loss rate: 3.21%

Run 10: Report of PCC — Data Link

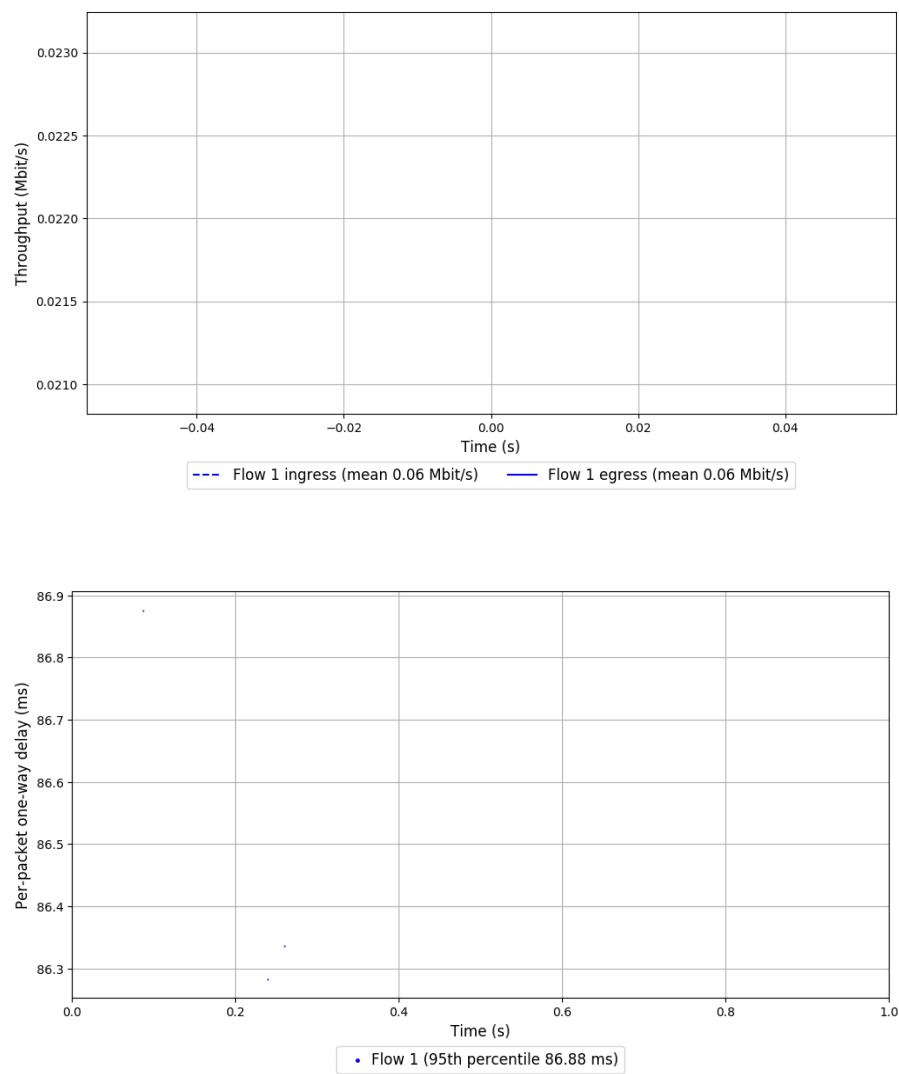


Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 05:20:55

End at: 2017-11-30 05:21:25

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 05:31:10

End at: 2017-11-30 05:31:40

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 86.598 ms

Loss rate: 0.13%

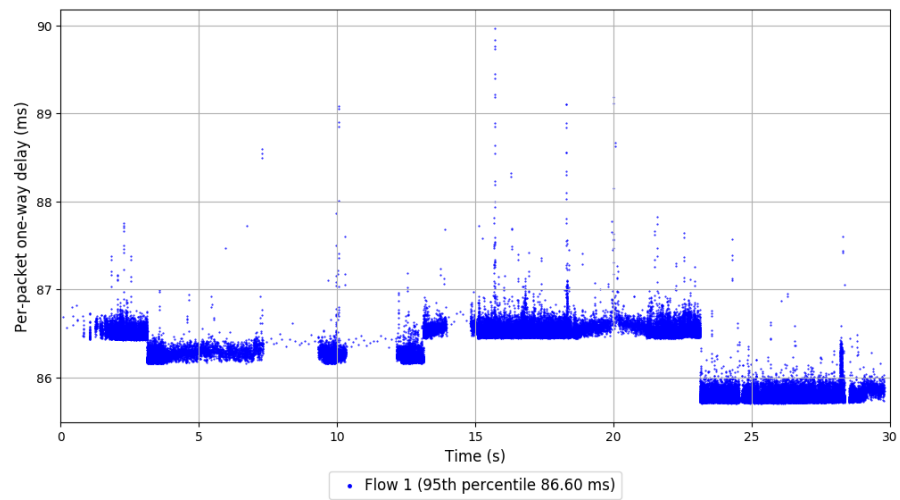
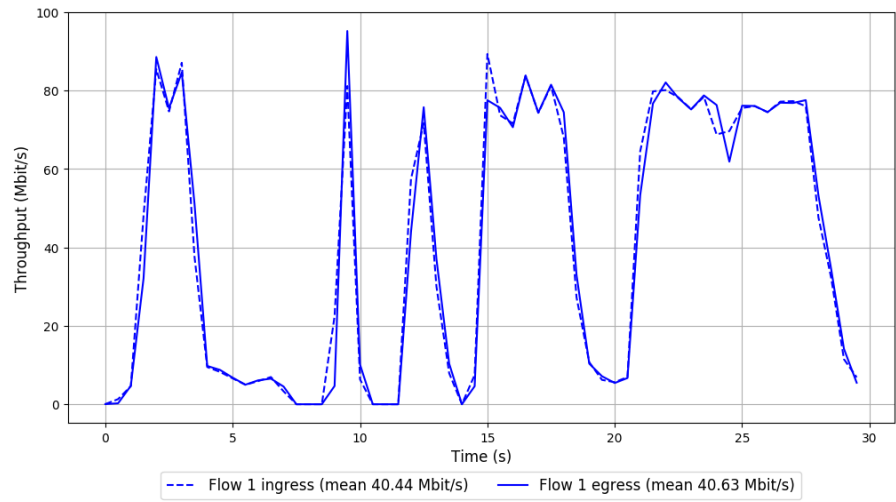
-- Flow 1:

Average throughput: 40.63 Mbit/s

95th percentile per-packet one-way delay: 86.598 ms

Loss rate: 0.13%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 05:42:10

End at: 2017-11-30 05:42:40

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 86.422 ms

Loss rate: 0.85%

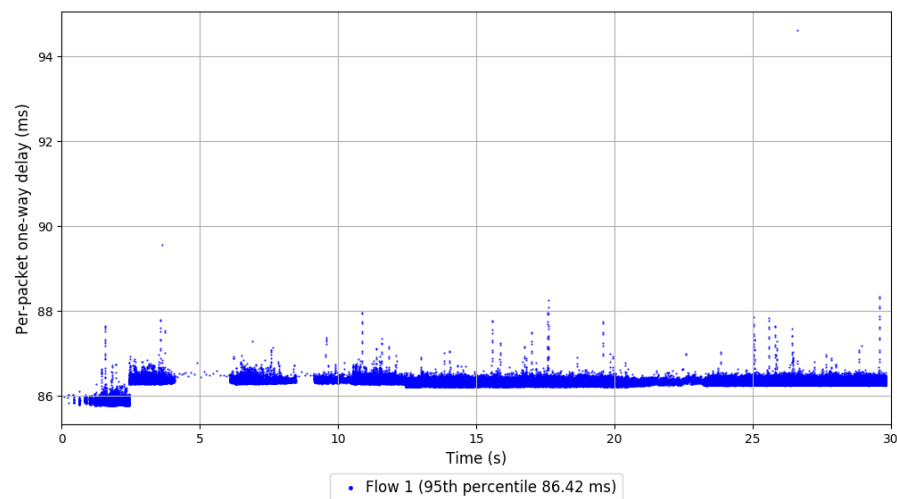
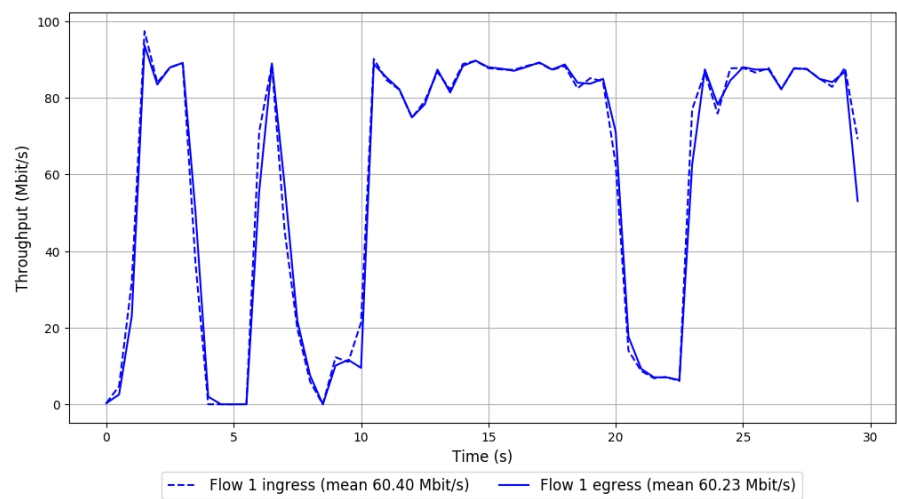
-- Flow 1:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 86.422 ms

Loss rate: 0.85%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 05:52:59

End at: 2017-11-30 05:53:29

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 86.622 ms

Loss rate: 0.75%

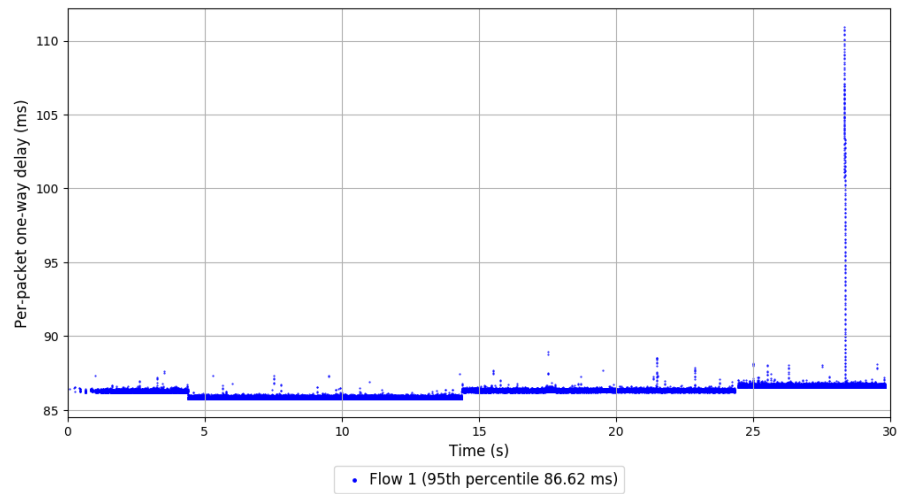
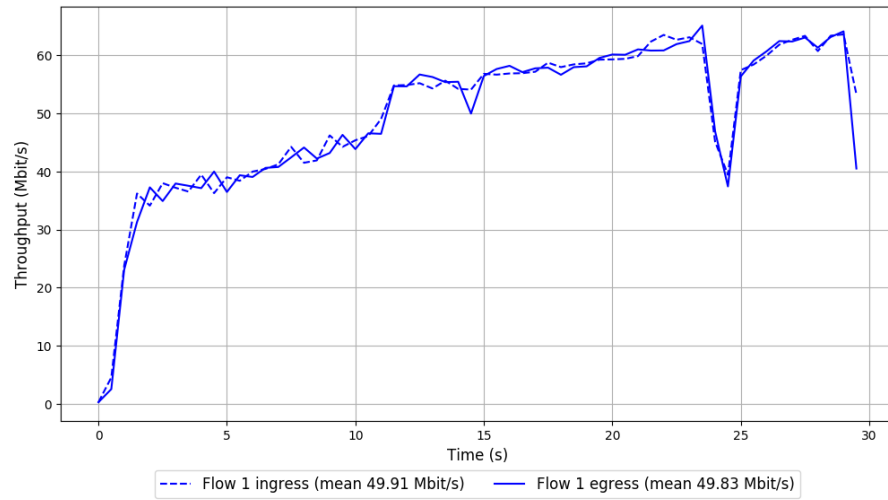
-- Flow 1:

Average throughput: 49.83 Mbit/s

95th percentile per-packet one-way delay: 86.622 ms

Loss rate: 0.75%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 06:04:02

End at: 2017-11-30 06:04:32

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.59 Mbit/s

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

Loss rate: 0.67%

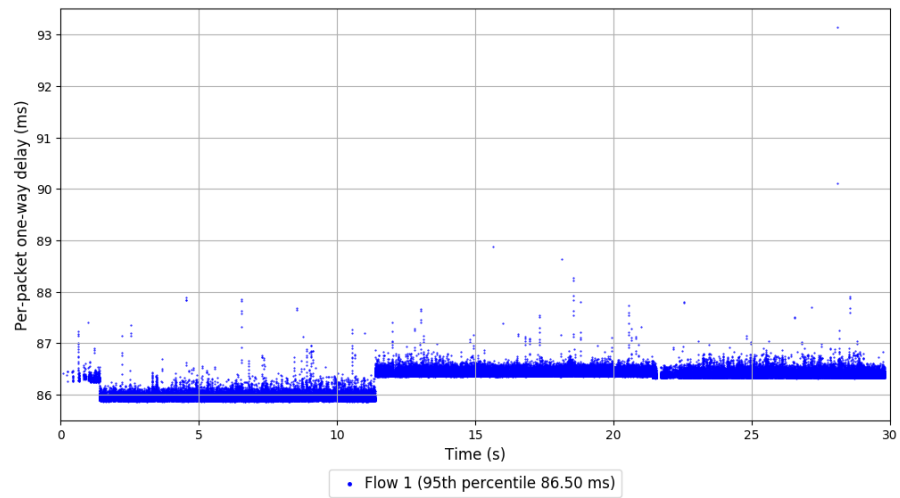
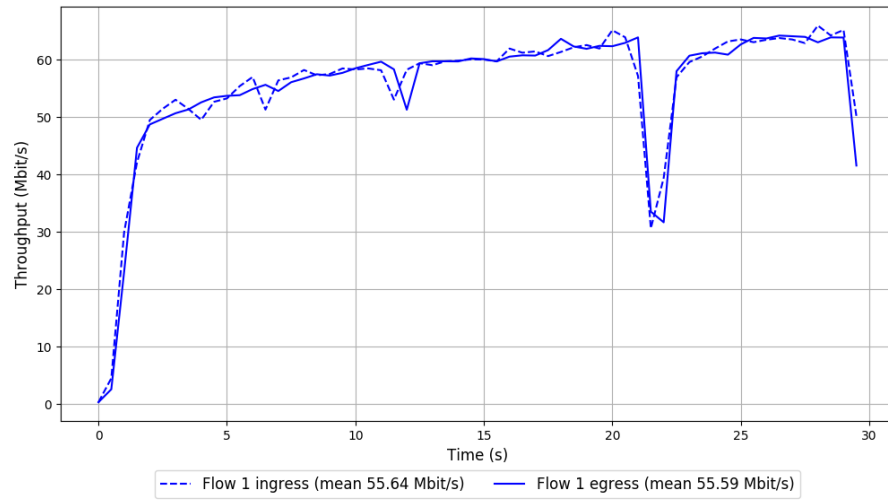
-- Flow 1:

Average throughput: 55.59 Mbit/s

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

Loss rate: 0.67%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 06:14:54

End at: 2017-11-30 06:15:24

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 87.080 ms

Loss rate: 0.68%

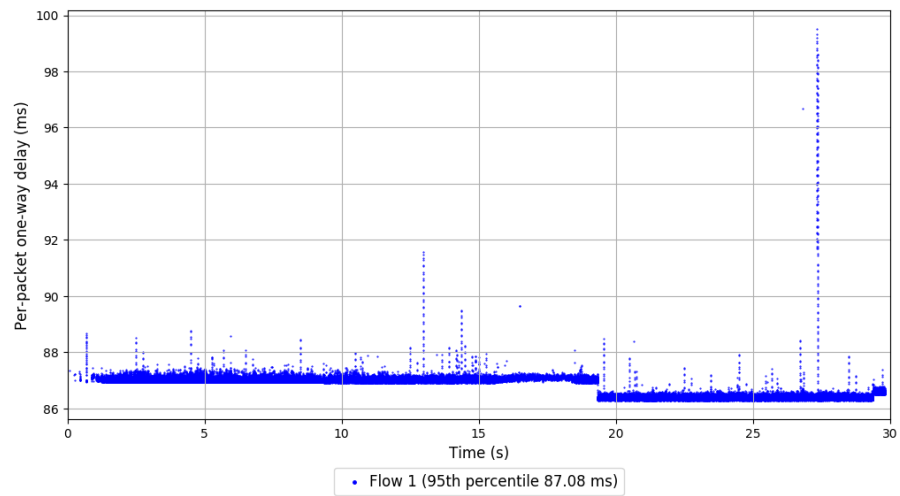
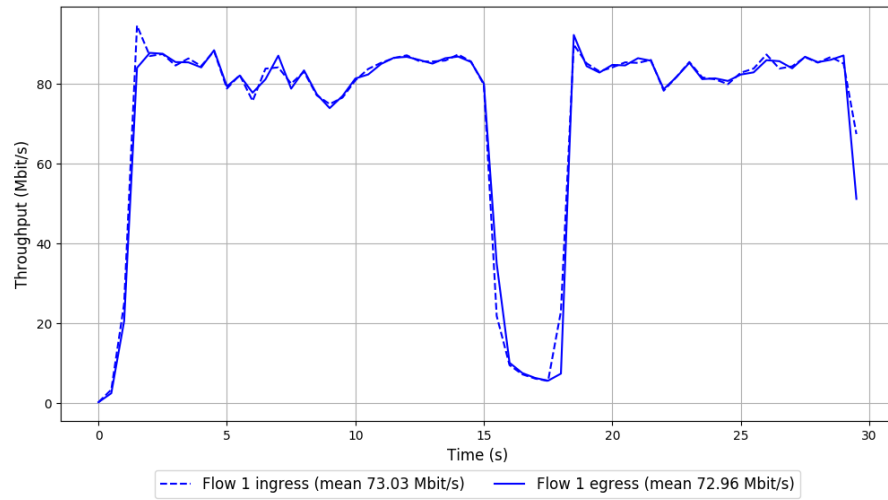
-- Flow 1:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 87.080 ms

Loss rate: 0.68%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 06:25:36

End at: 2017-11-30 06:26:06

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.45 Mbit/s

95th percentile per-packet one-way delay: 86.341 ms

Loss rate: 0.67%

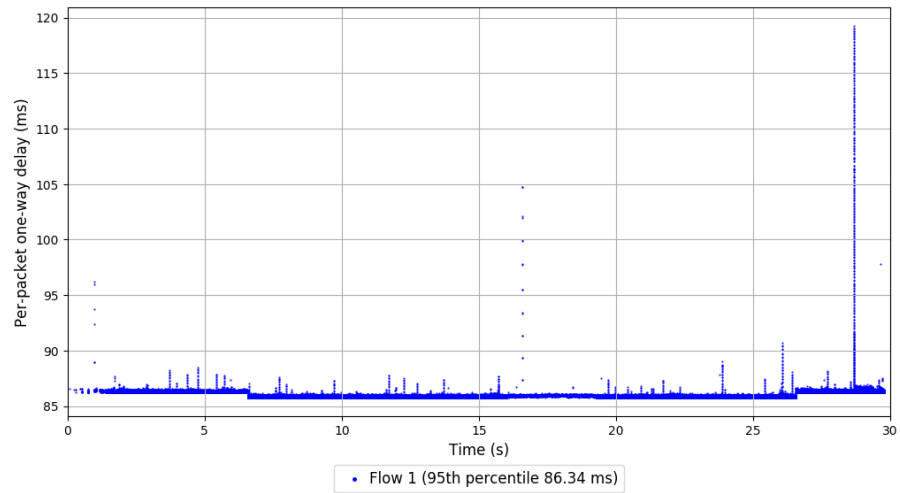
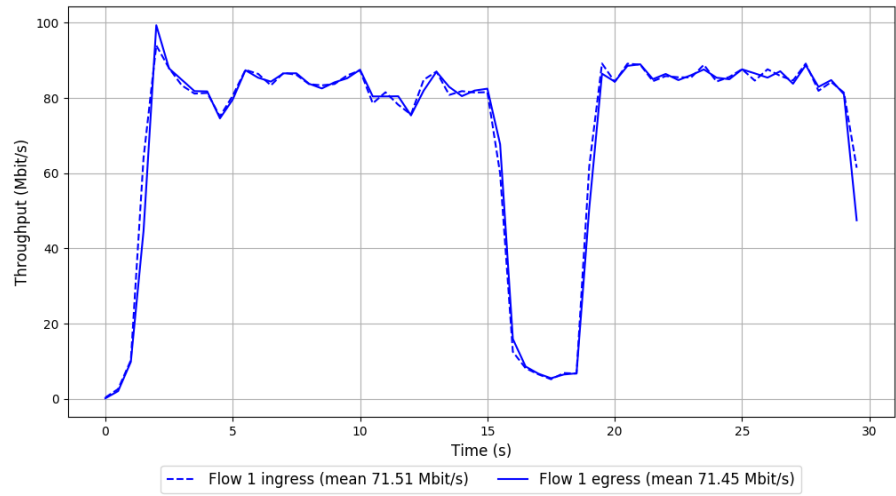
-- Flow 1:

Average throughput: 71.45 Mbit/s

95th percentile per-packet one-way delay: 86.341 ms

Loss rate: 0.67%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 06:36:23

End at: 2017-11-30 06:36:53

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.92 Mbit/s

95th percentile per-packet one-way delay: 86.542 ms

Loss rate: 0.68%

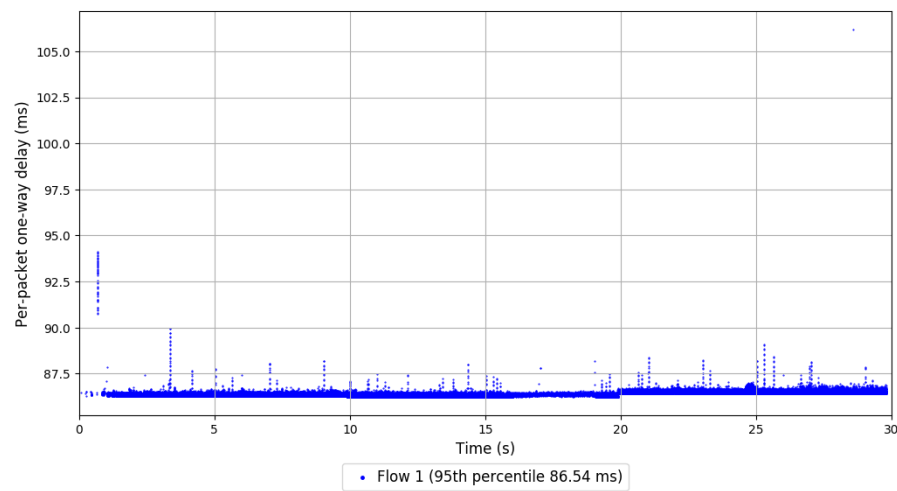
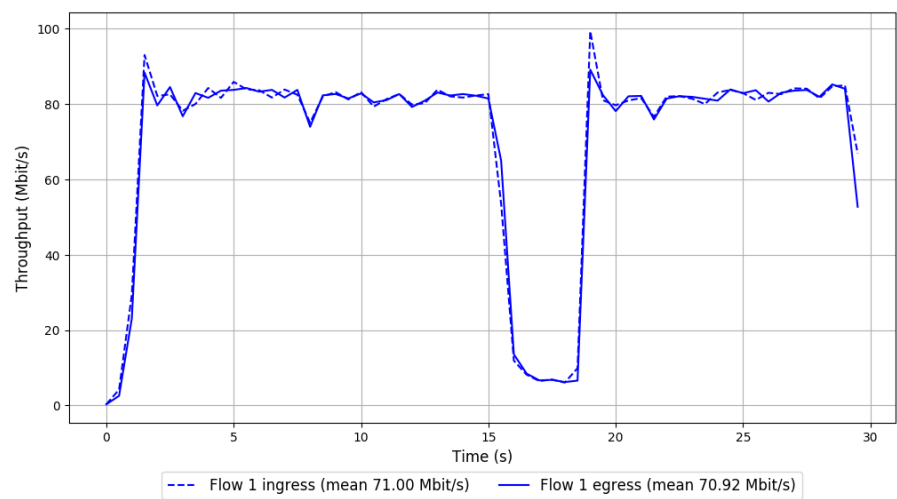
-- Flow 1:

Average throughput: 70.92 Mbit/s

95th percentile per-packet one-way delay: 86.542 ms

Loss rate: 0.68%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 06:47:16

End at: 2017-11-30 06:47:46

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.45 Mbit/s

95th percentile per-packet one-way delay: 86.780 ms

Loss rate: 1.07%

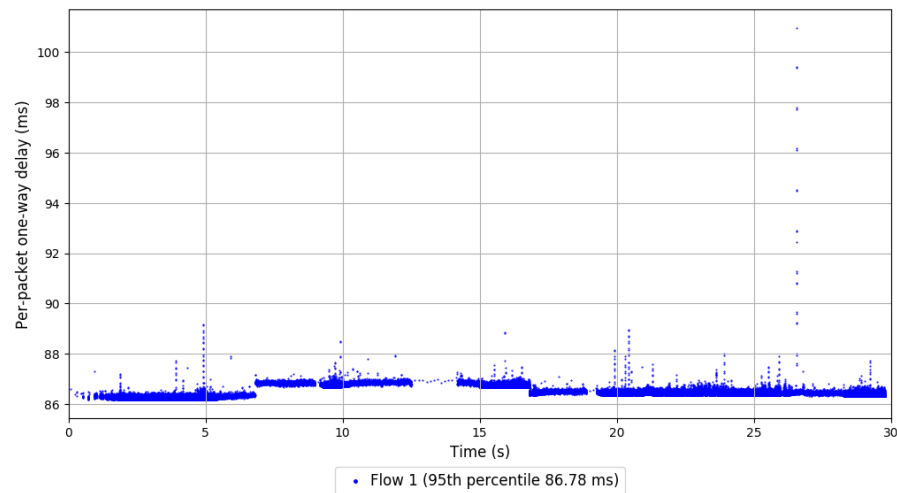
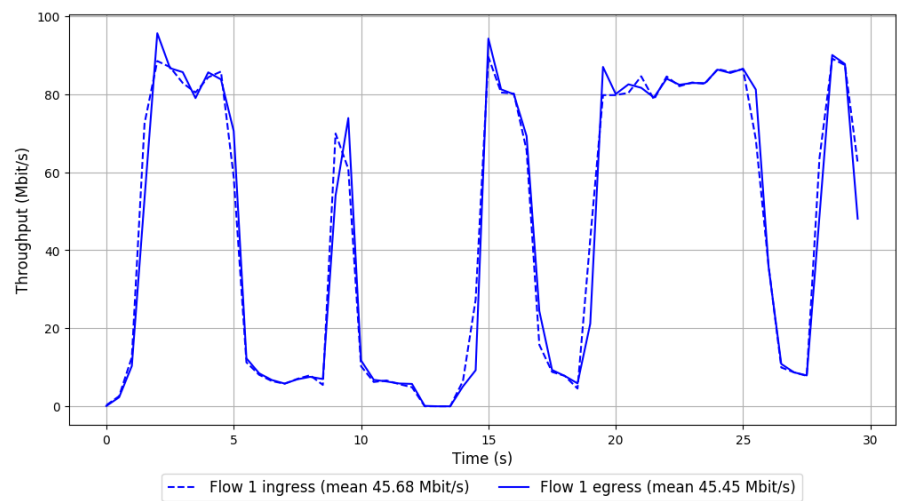
-- Flow 1:

Average throughput: 45.45 Mbit/s

95th percentile per-packet one-way delay: 86.780 ms

Loss rate: 1.07%

Run 9: Report of QUIC Cubic — Data Link

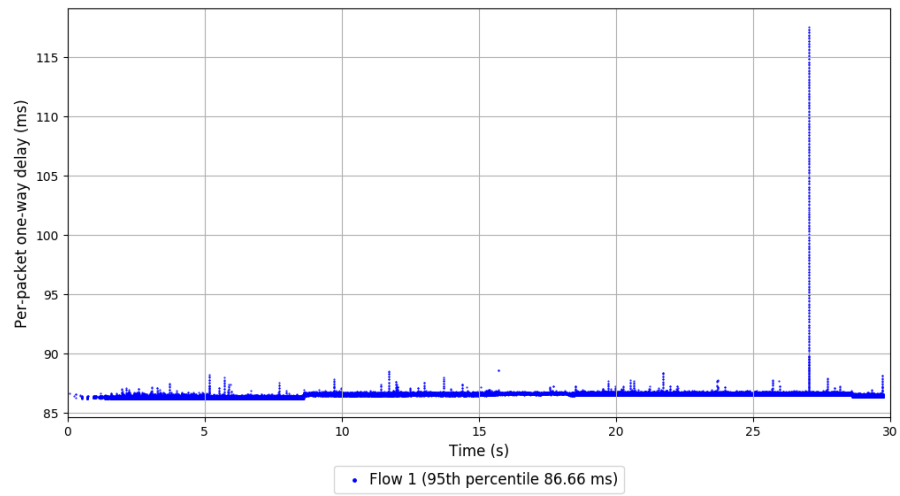
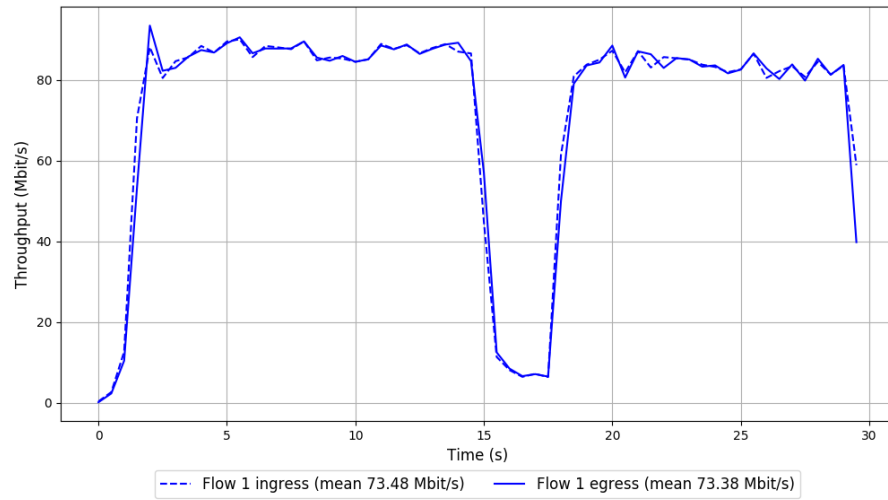


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 06:58:14
End at: 2017-11-30 06:58:44

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 86.656 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 73.38 Mbit/s
95th percentile per-packet one-way delay: 86.656 ms
Loss rate: 0.76%
```

Run 10: Report of QUIC Cubic — Data Link

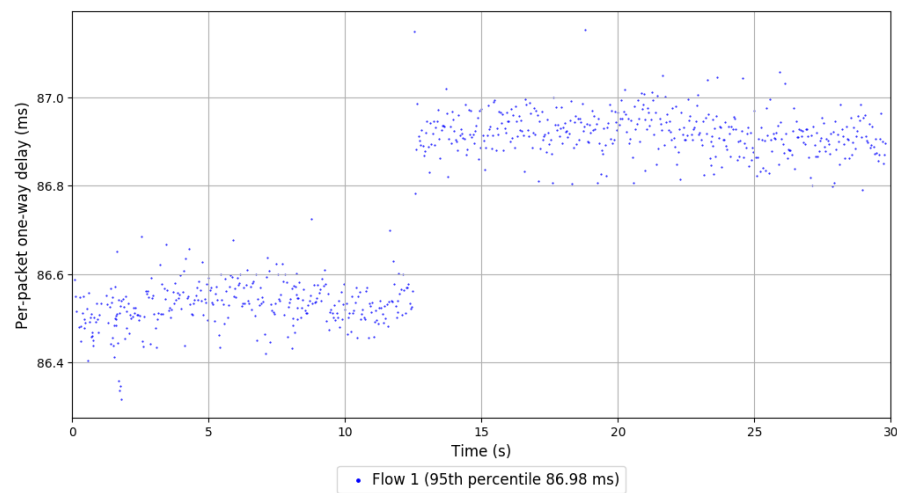
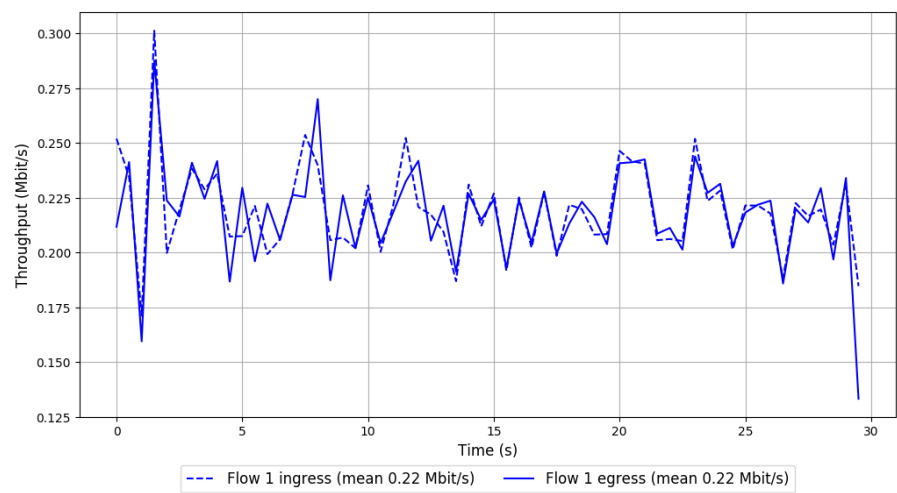


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 05:18:50
End at: 2017-11-30 05:19:20

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.979 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.979 ms
Loss rate: 0.64%
```

Run 1: Report of SCSReAM — Data Link

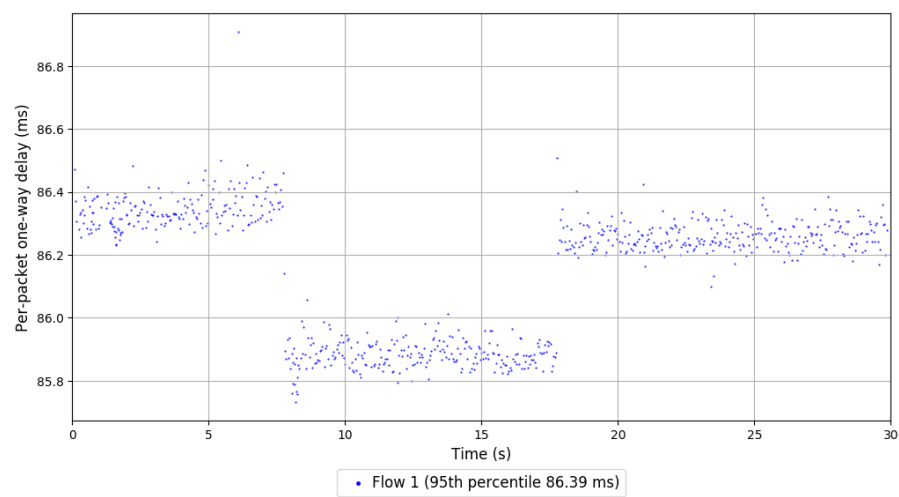
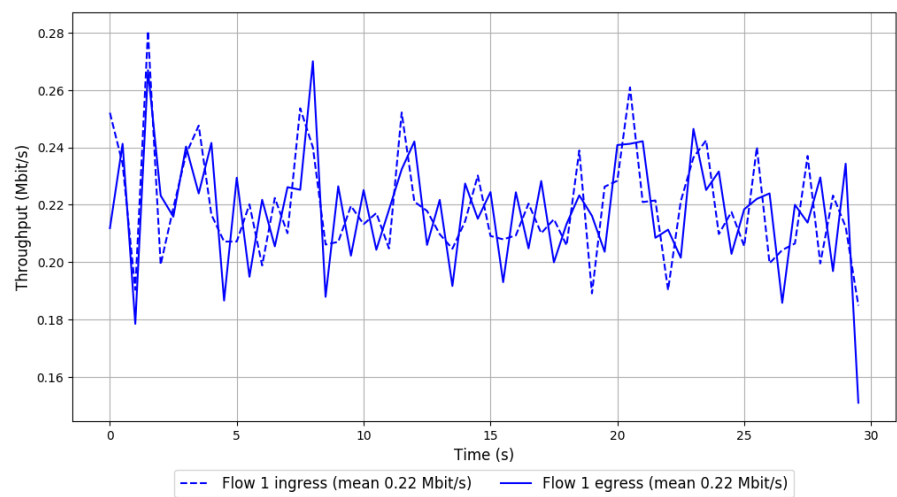


```
Run 2: Statistics of SCReAM

Start at: 2017-11-30 05:29:05
End at: 2017-11-30 05:29:35

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.388 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.388 ms
Loss rate: 0.51%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-30 05:40:06

End at: 2017-11-30 05:40:36

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.923 ms

Loss rate: 0.51%

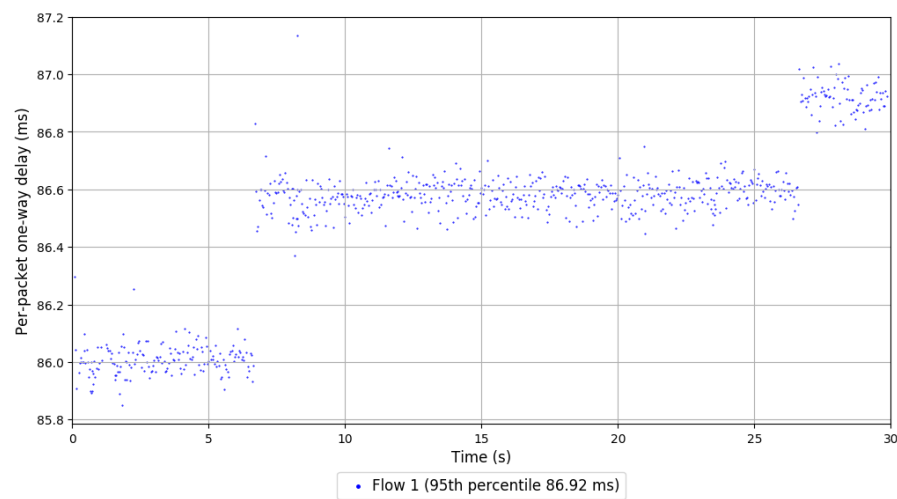
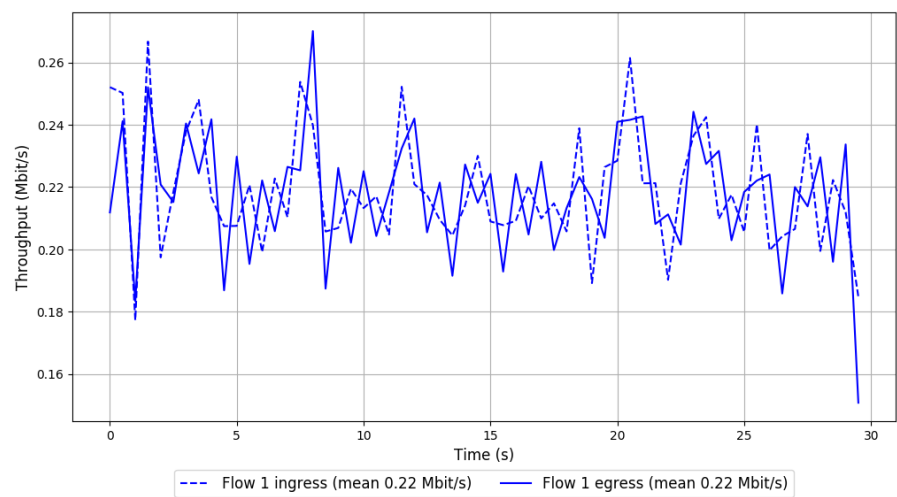
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.923 ms

Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-30 05:50:54

End at: 2017-11-30 05:51:24

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 0.51%

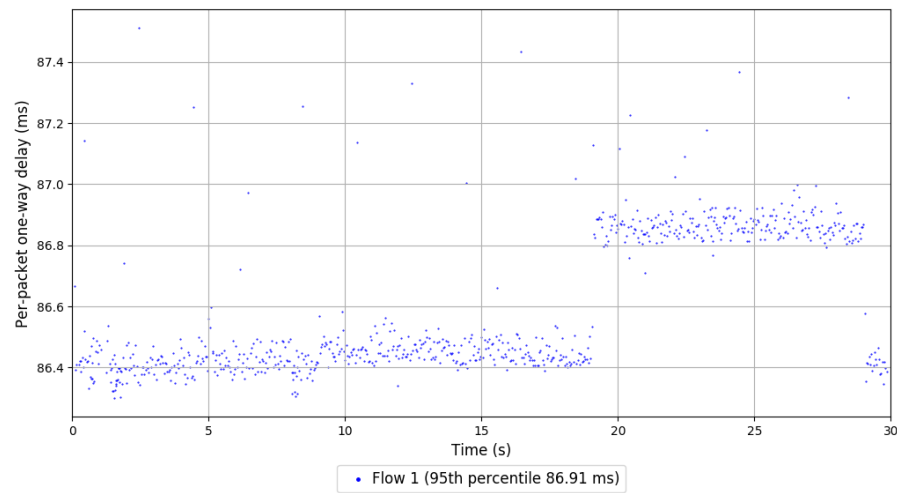
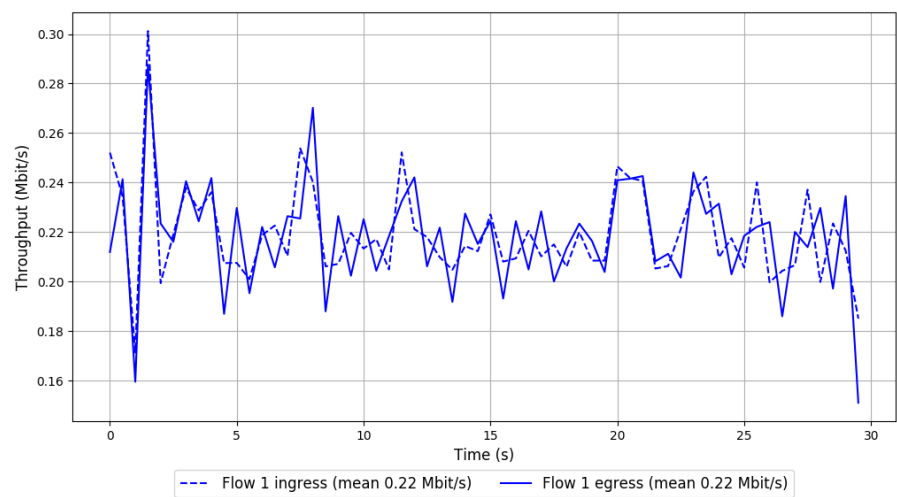
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.914 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-30 06:01:57

End at: 2017-11-30 06:02:27

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.035 ms

Loss rate: 0.64%

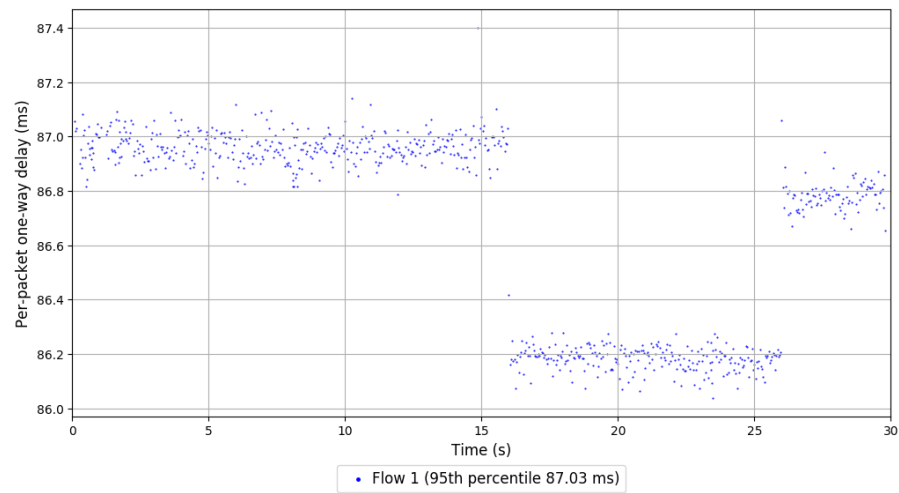
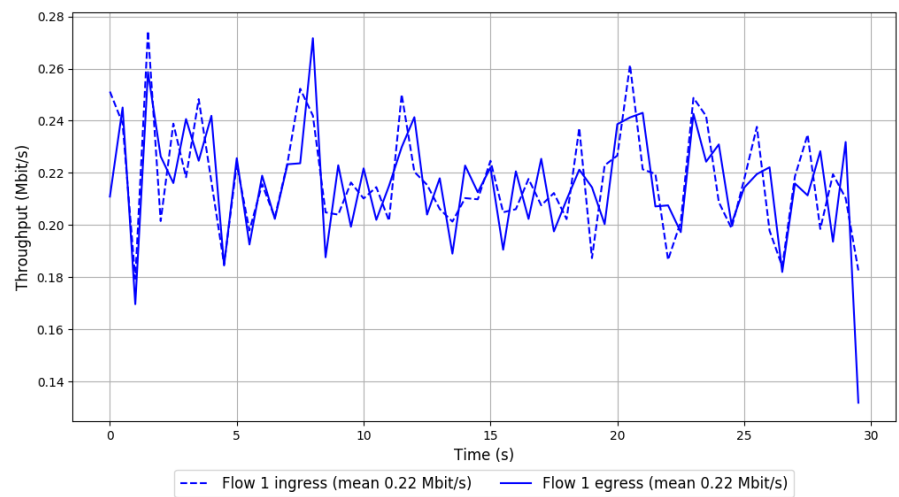
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.035 ms

Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-30 06:12:56

End at: 2017-11-30 06:13:26

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.816 ms

Loss rate: 0.64%

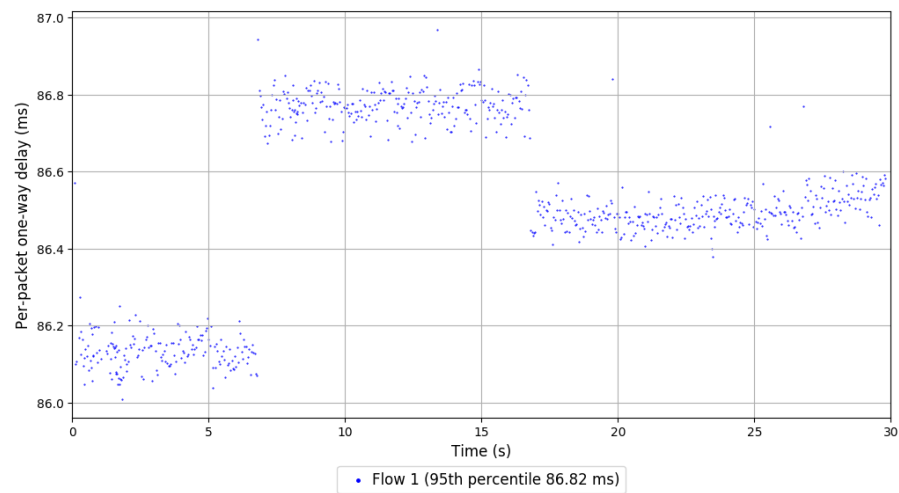
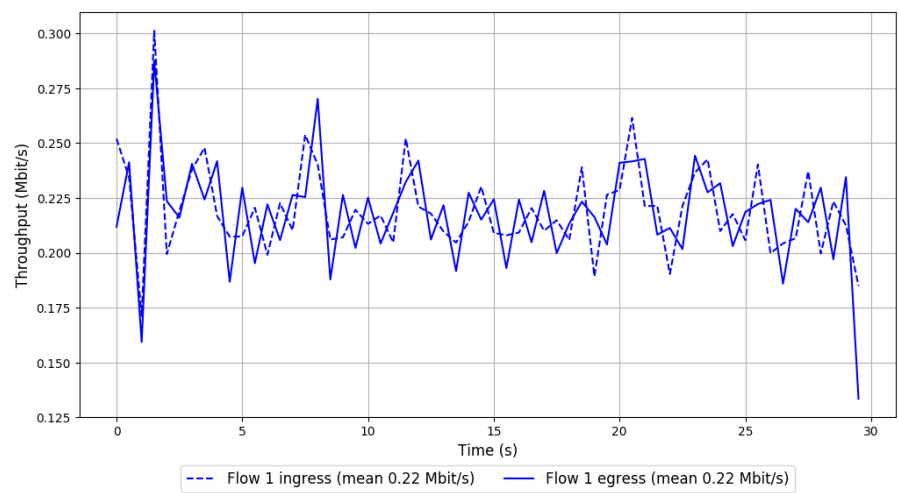
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.816 ms

Loss rate: 0.64%

Run 6: Report of SReAM — Data Link

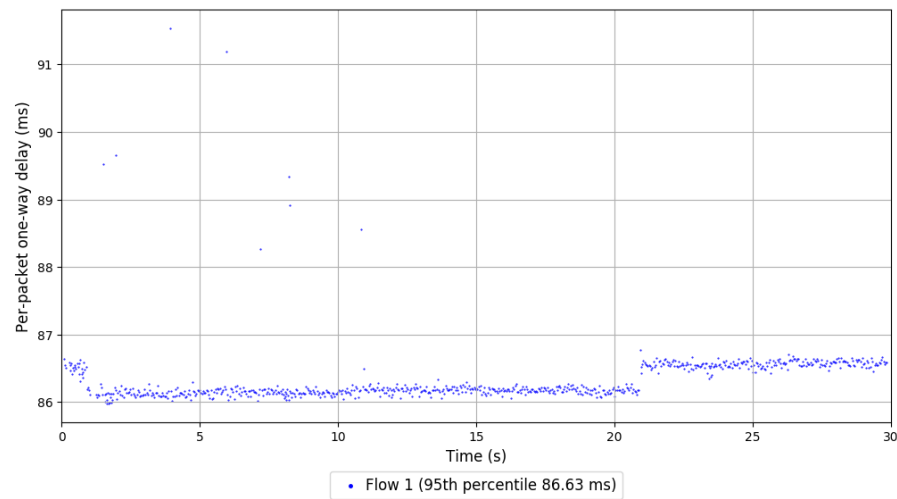
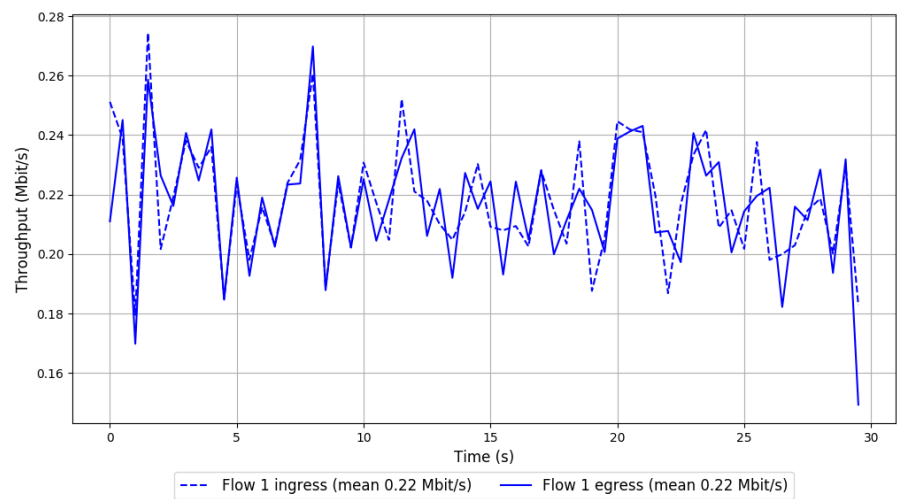


```
Run 7: Statistics of SCReAM

Start at: 2017-11-30 06:23:32
End at: 2017-11-30 06:24:02

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.627 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.627 ms
Loss rate: 0.50%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-30 06:34:18

End at: 2017-11-30 06:34:48

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.820 ms

Loss rate: 0.51%

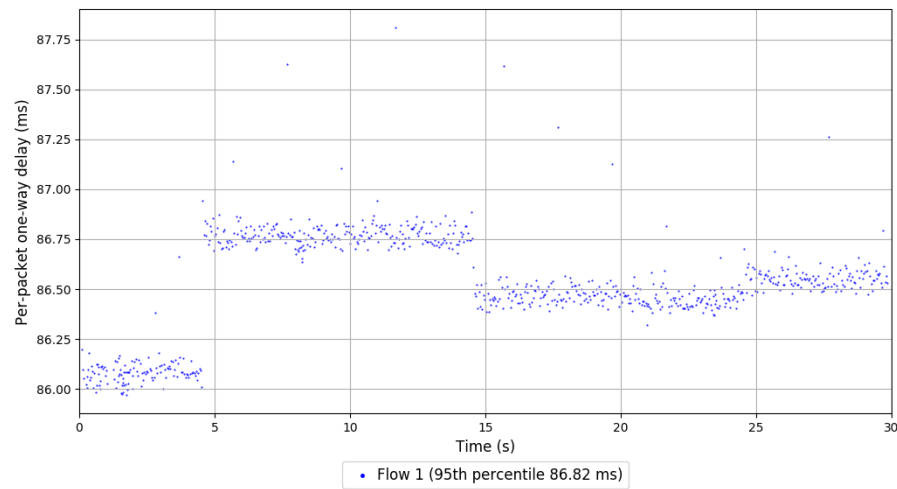
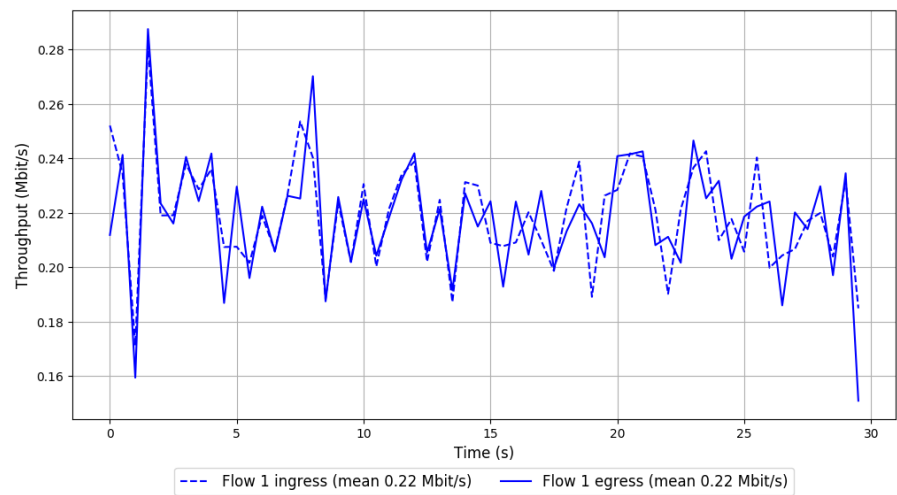
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.820 ms

Loss rate: 0.51%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-30 06:45:12

End at: 2017-11-30 06:45:42

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.742 ms

Loss rate: 0.51%

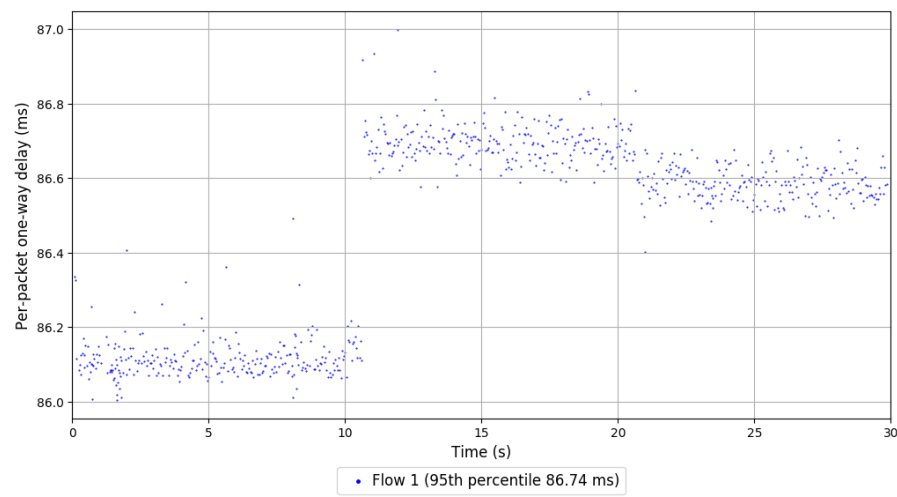
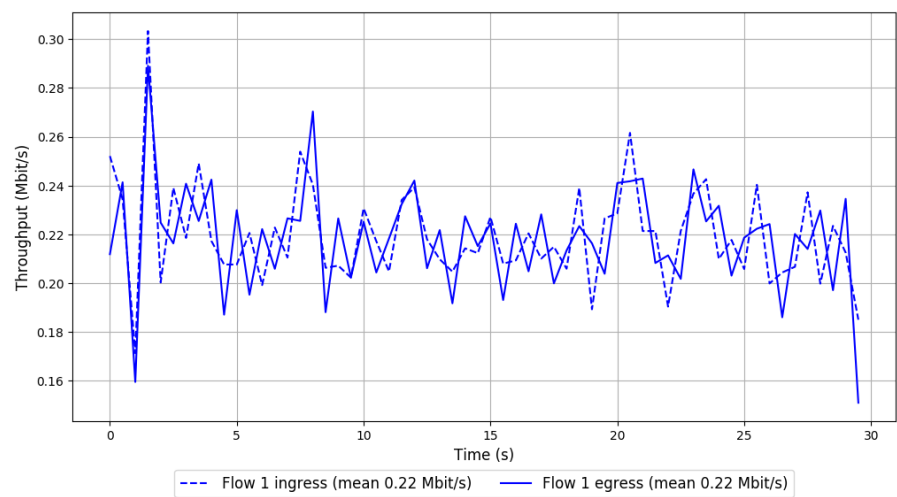
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.742 ms

Loss rate: 0.51%

Run 9: Report of SReAM — Data Link

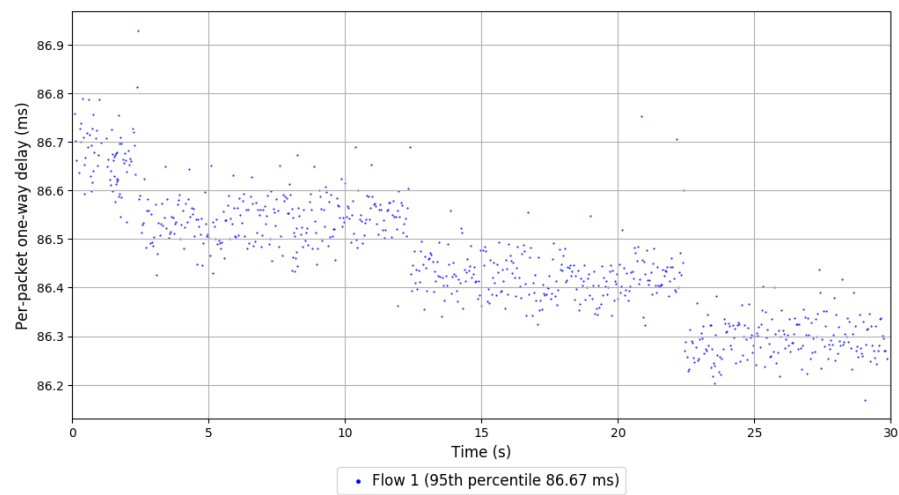
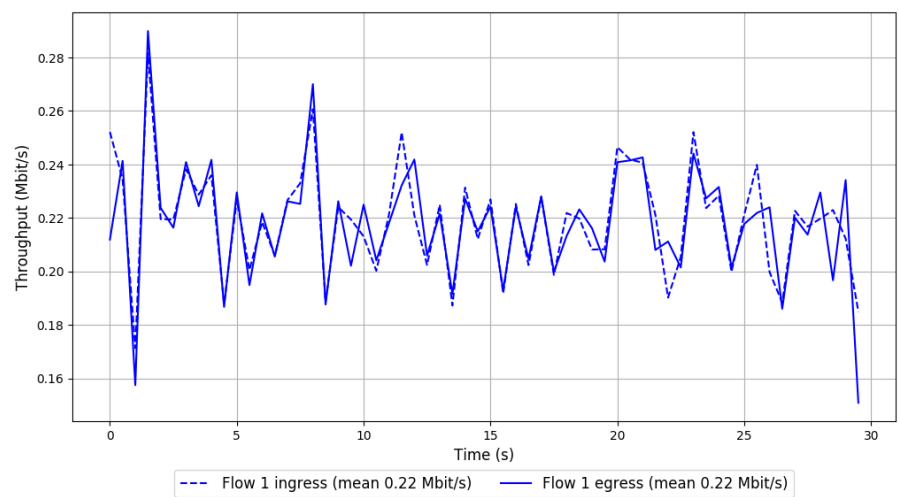


```
Run 10: Statistics of SReAM

Start at: 2017-11-30 06:56:11
End at: 2017-11-30 06:56:41

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.675 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.675 ms
Loss rate: 0.51%
```

Run 10: Report of SCReAM — Data Link

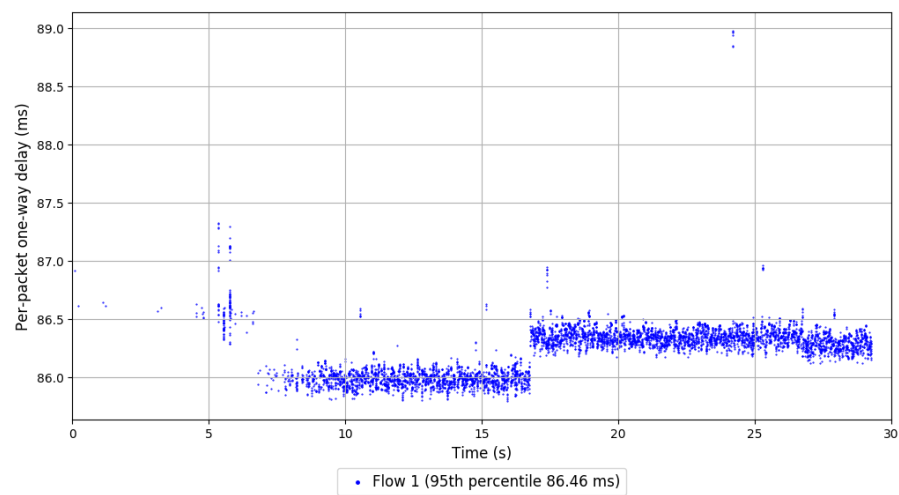
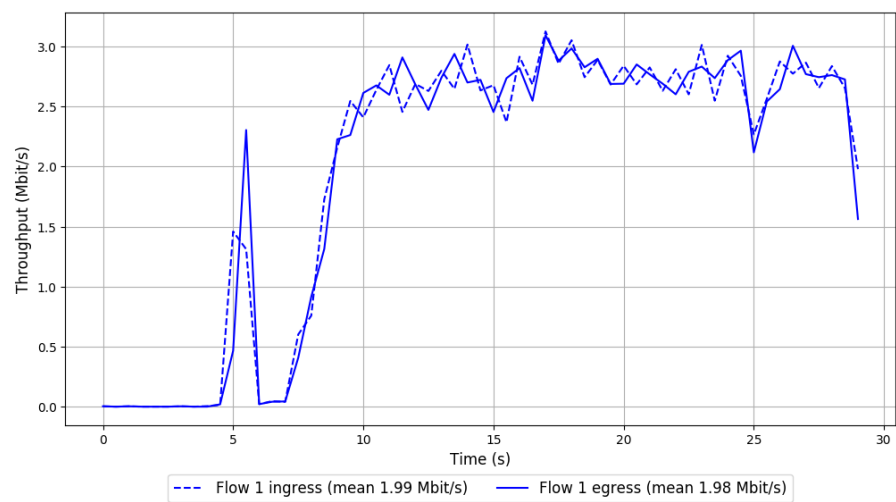


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-30 05:20:16
End at: 2017-11-30 05:20:46

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 86.464 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 86.464 ms
Loss rate: 0.74%
```

Run 1: Report of WebRTC media — Data Link

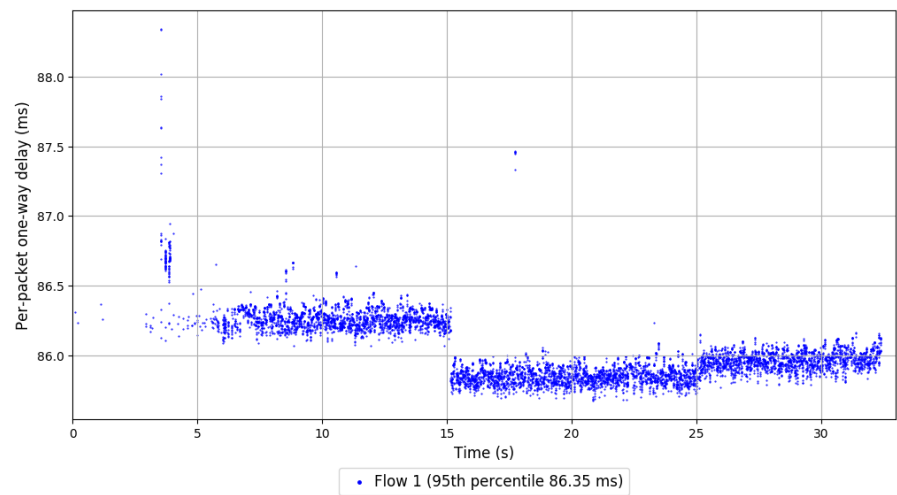
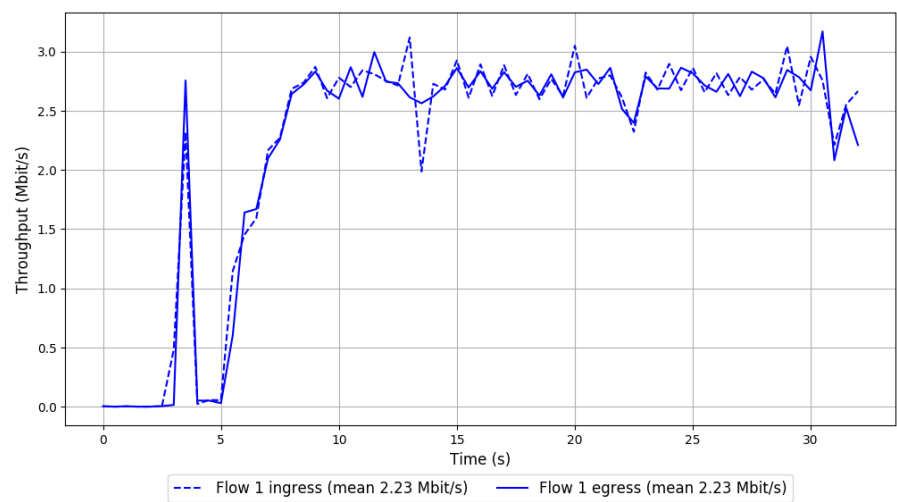


```
Run 2: Statistics of WebRTC media

Start at: 2017-11-30 05:30:30
End at: 2017-11-30 05:31:00

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 86.348 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 86.348 ms
Loss rate: 0.62%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-30 05:41:31

End at: 2017-11-30 05:42:01

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.648 ms

Loss rate: 0.64%

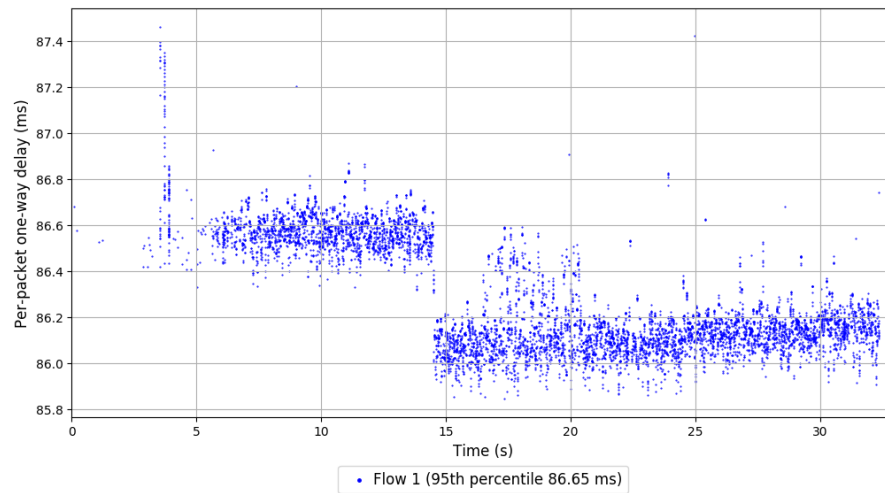
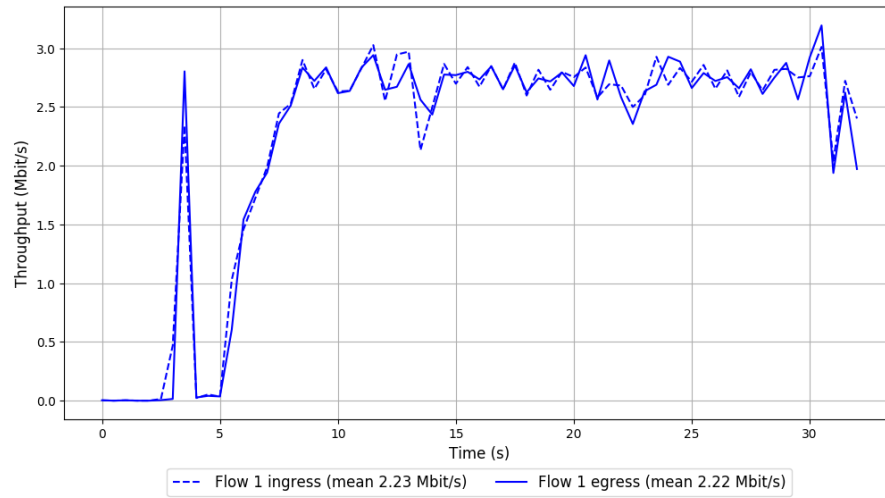
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 86.648 ms

Loss rate: 0.64%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 05:52:19

End at: 2017-11-30 05:52:49

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 86.994 ms

Loss rate: 0.78%

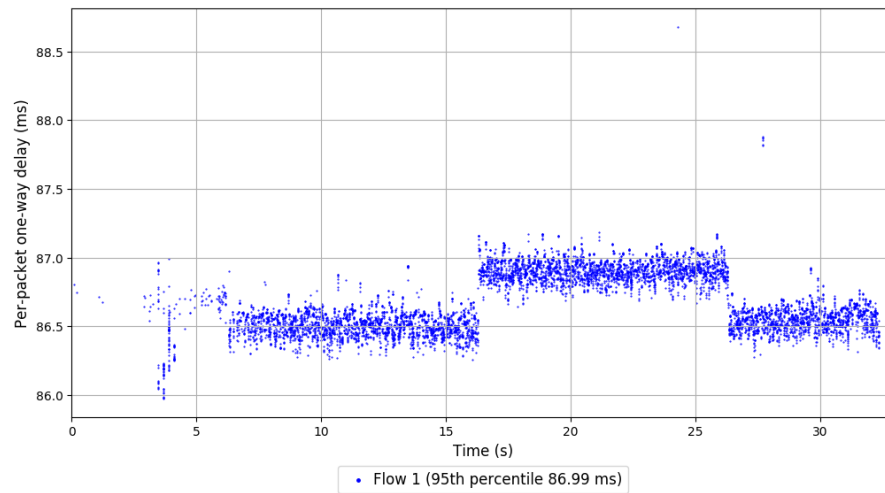
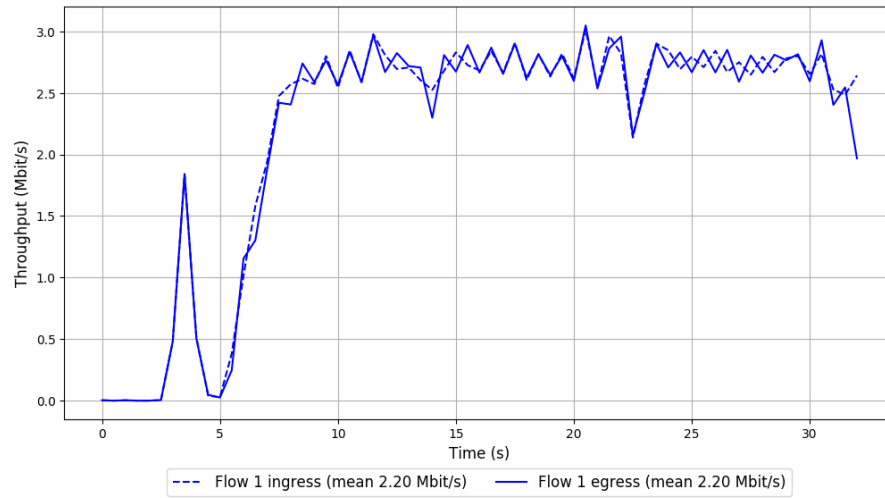
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 86.994 ms

Loss rate: 0.78%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 06:03:22

End at: 2017-11-30 06:03:52

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 87.197 ms

Loss rate: 0.63%

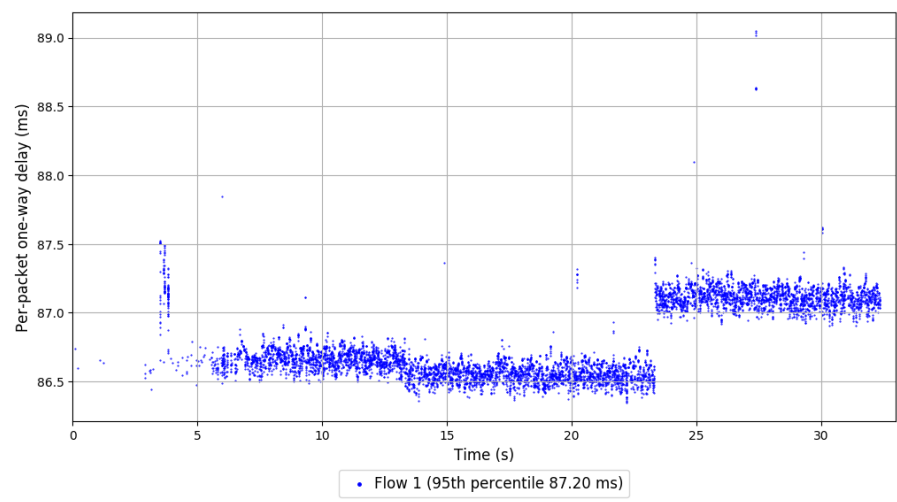
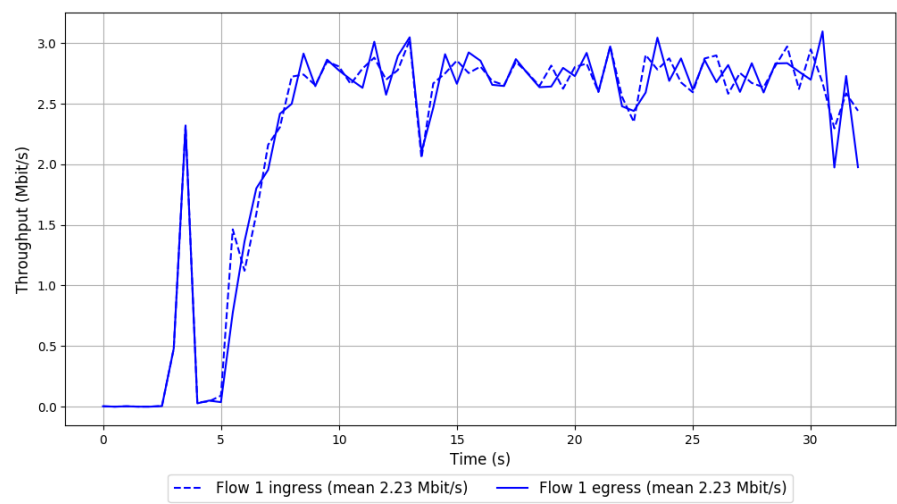
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 87.197 ms

Loss rate: 0.63%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 06:14:14

End at: 2017-11-30 06:14:44

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.77%

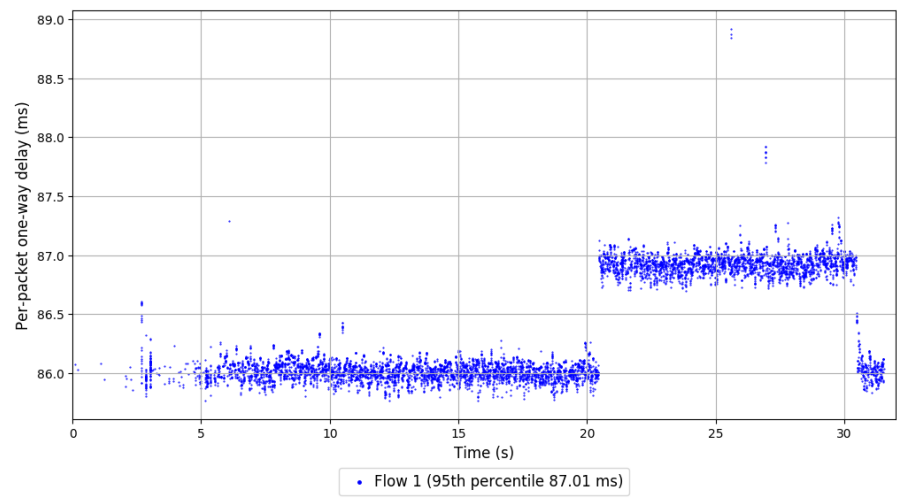
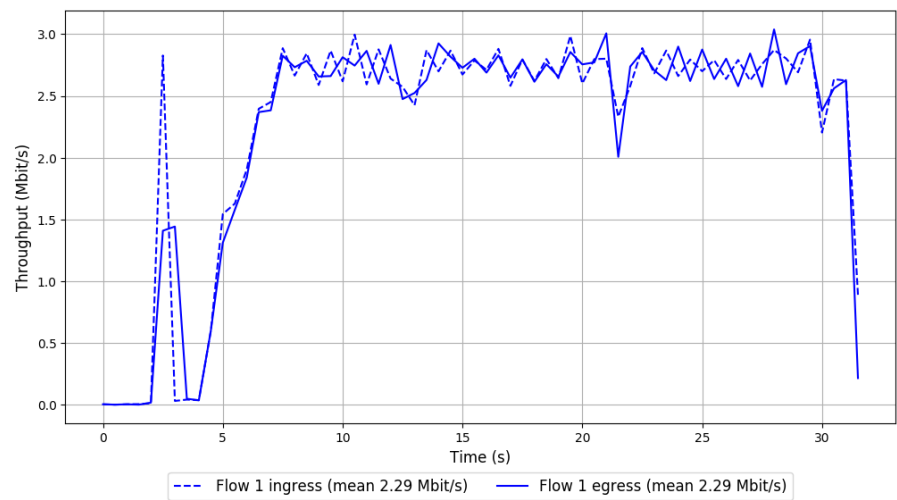
-- Flow 1:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.77%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 06:24:57

End at: 2017-11-30 06:25:27

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 86.979 ms

Loss rate: 0.61%

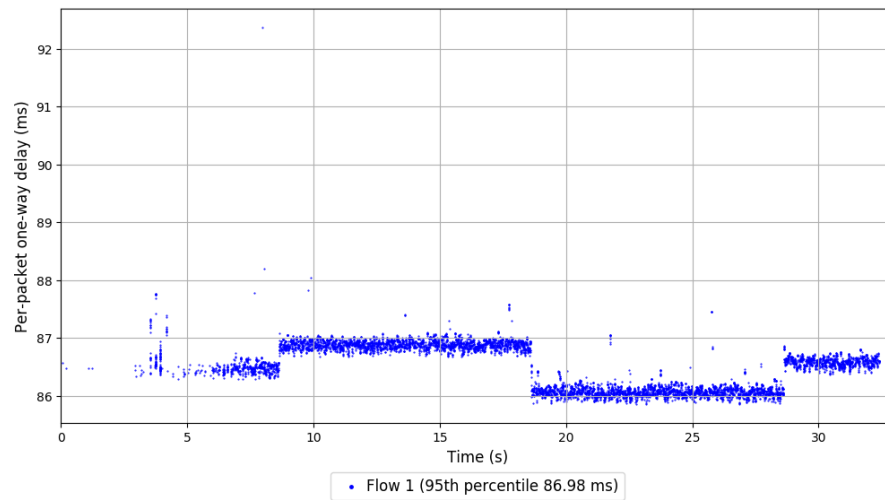
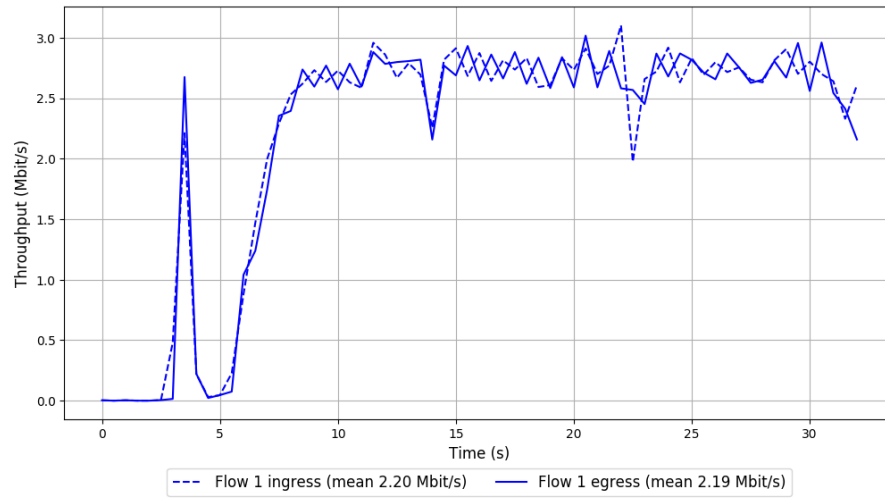
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 86.979 ms

Loss rate: 0.61%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 06:35:44

End at: 2017-11-30 06:36:14

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 86.648 ms

Loss rate: 0.70%

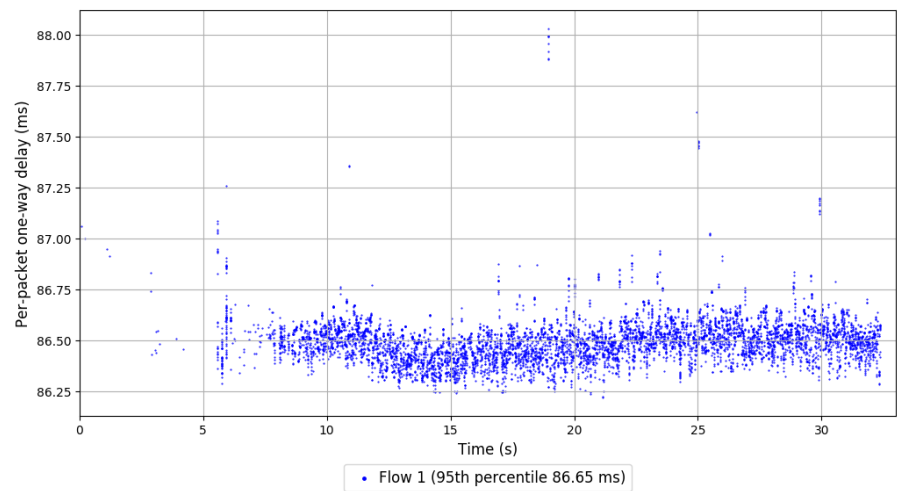
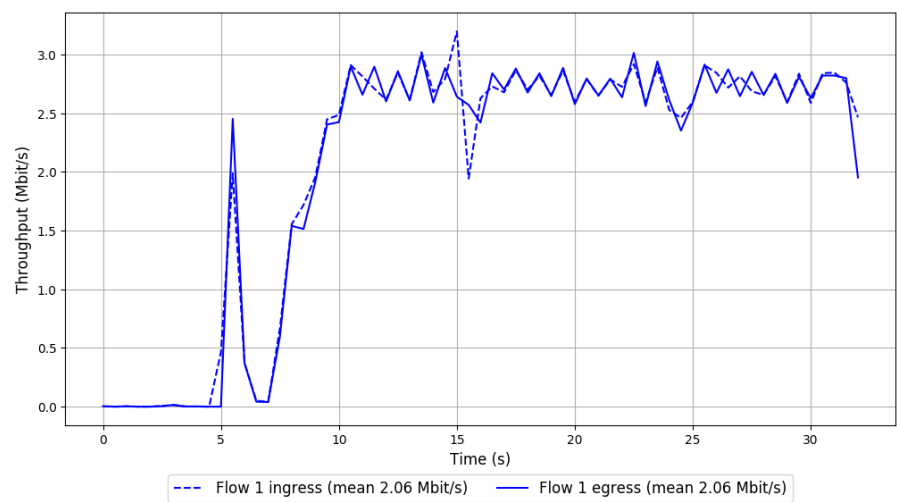
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 86.648 ms

Loss rate: 0.70%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-30 06:46:37

End at: 2017-11-30 06:47:07

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.921 ms

Loss rate: 0.77%

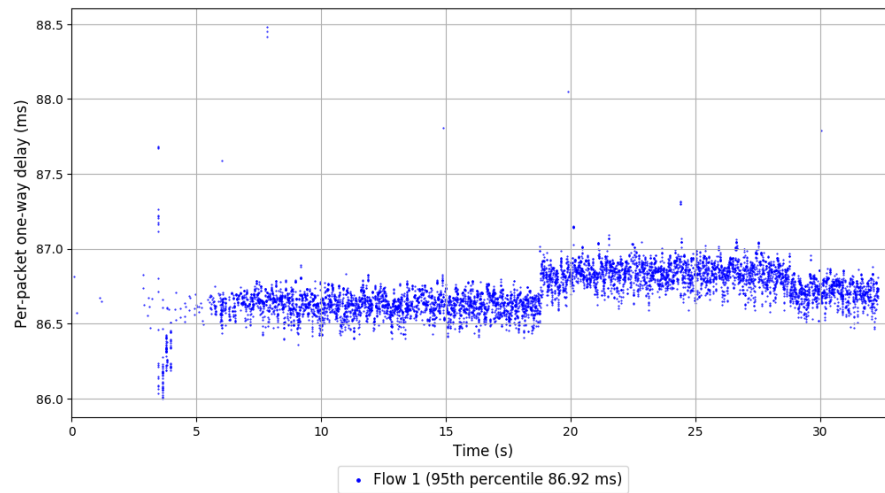
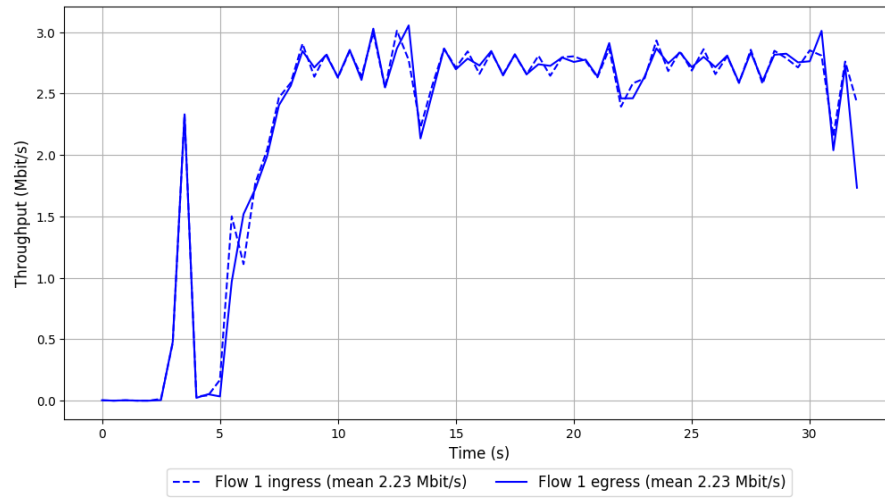
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.921 ms

Loss rate: 0.77%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 06:57:35

End at: 2017-11-30 06:58:05

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 87.148 ms

Loss rate: 0.68%

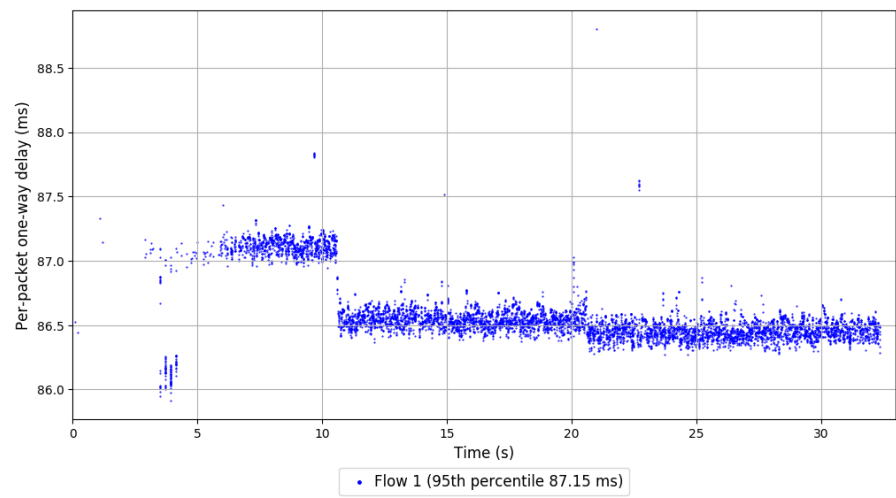
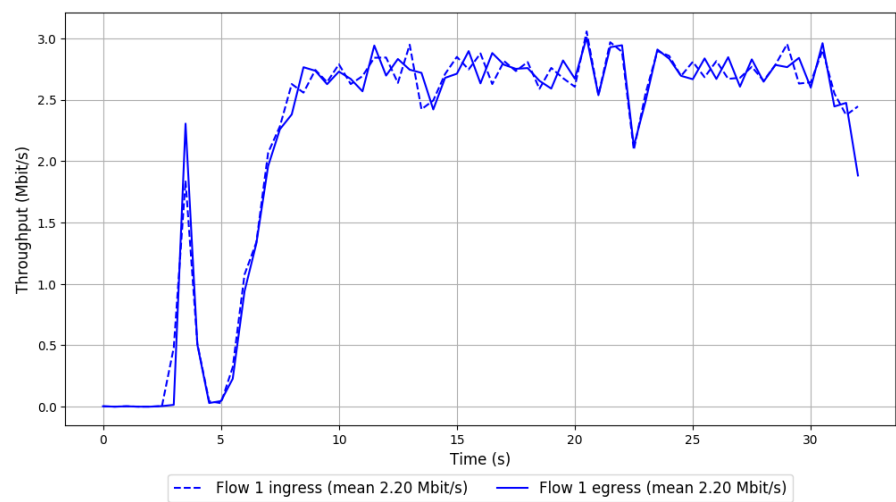
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 87.148 ms

Loss rate: 0.68%

Run 10: Report of WebRTC media — Data Link

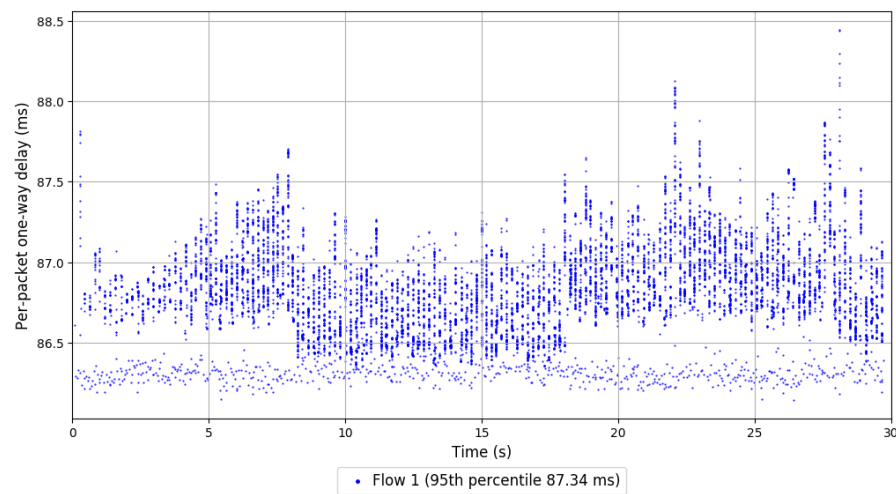
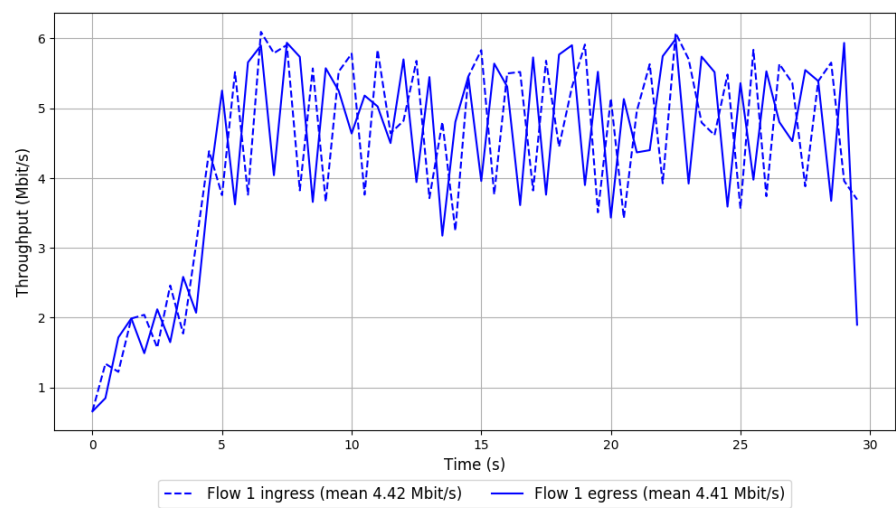


```
Run 1: Statistics of Sprout

Start at: 2017-11-30 05:23:05
End at: 2017-11-30 05:23:35

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 87.337 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 87.337 ms
Loss rate: 0.88%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 05:33:23

End at: 2017-11-30 05:33:53

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 87.273 ms

Loss rate: 0.58%

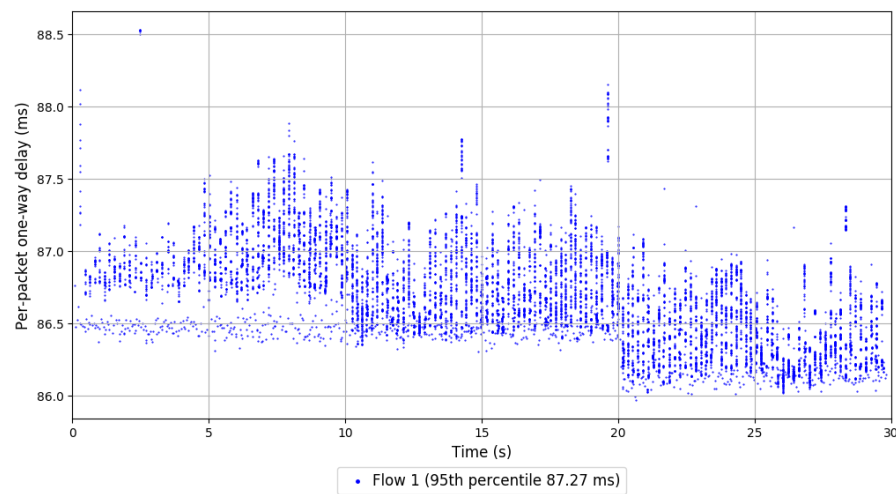
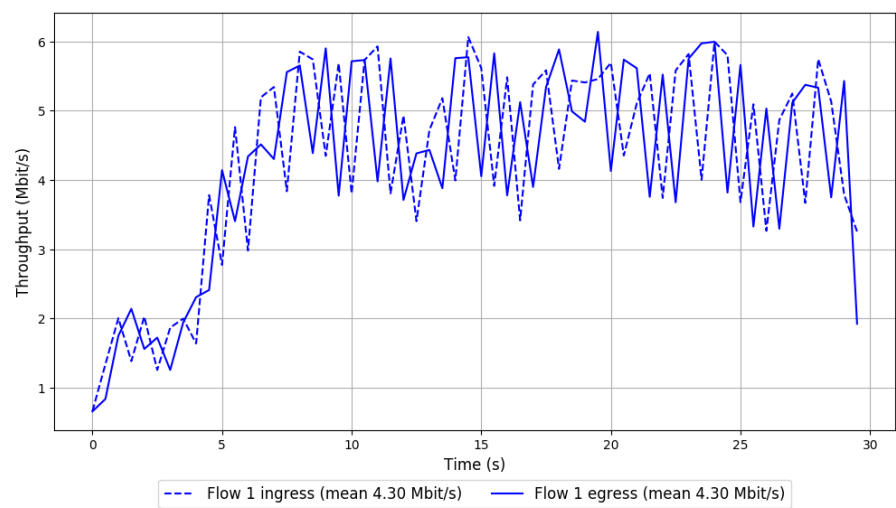
-- Flow 1:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 87.273 ms

Loss rate: 0.58%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 05:44:24

End at: 2017-11-30 05:44:55

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 87.540 ms

Loss rate: 0.68%

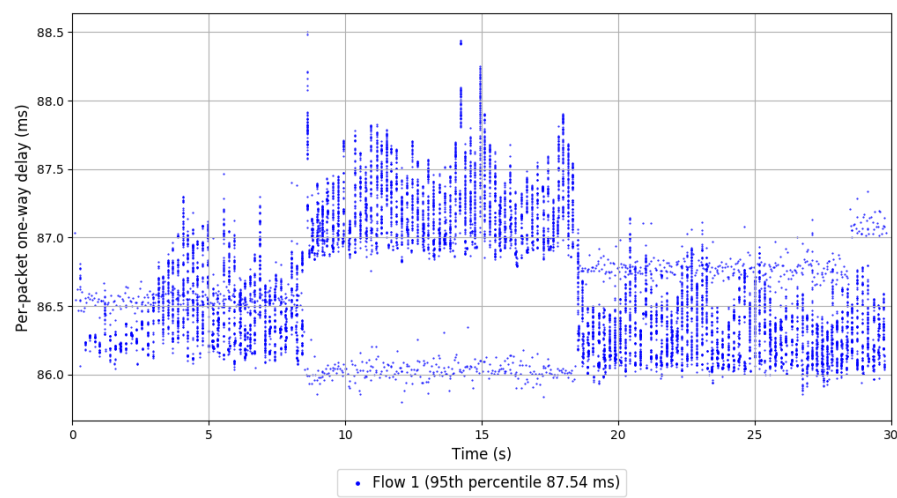
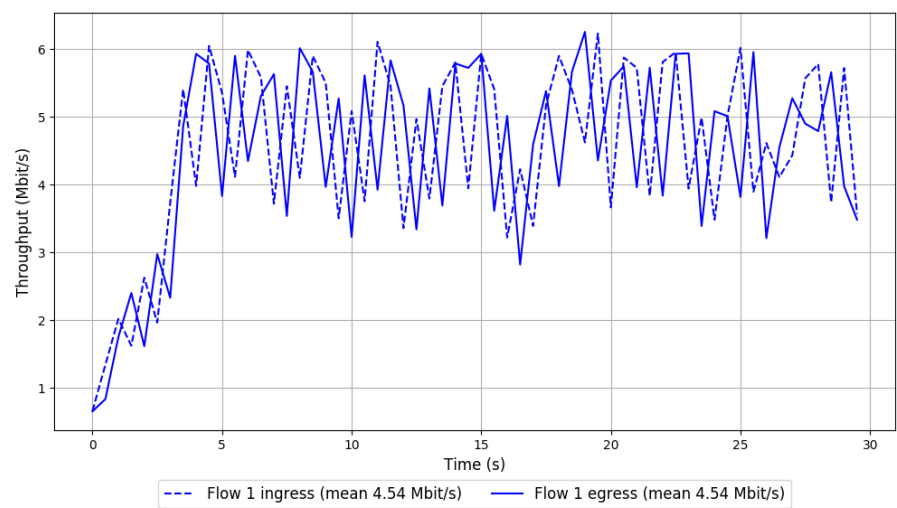
-- Flow 1:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 87.540 ms

Loss rate: 0.68%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 05:55:12

End at: 2017-11-30 05:55:42

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 87.199 ms

Loss rate: 0.87%

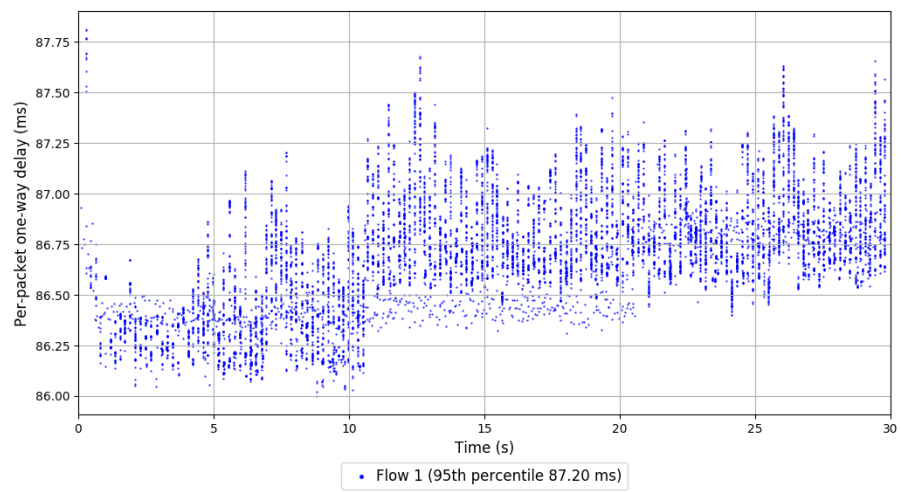
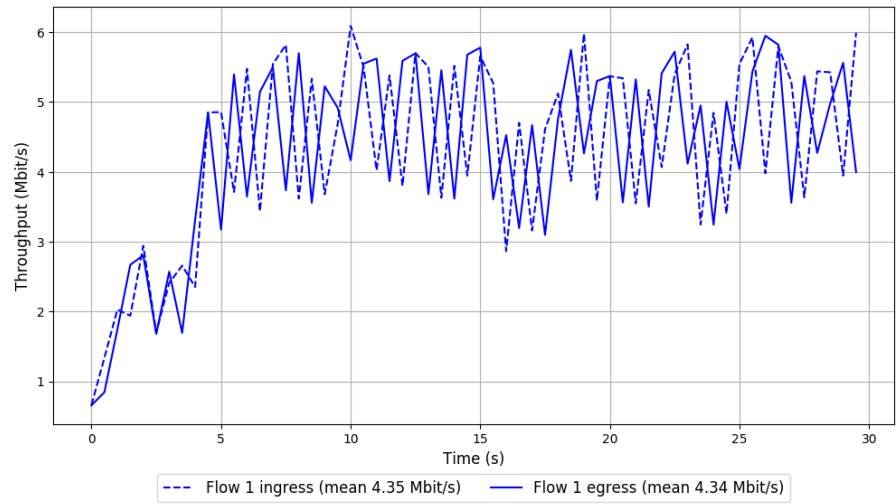
-- Flow 1:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 87.199 ms

Loss rate: 0.87%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 06:06:15

End at: 2017-11-30 06:06:45

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 87.360 ms

Loss rate: 0.10%

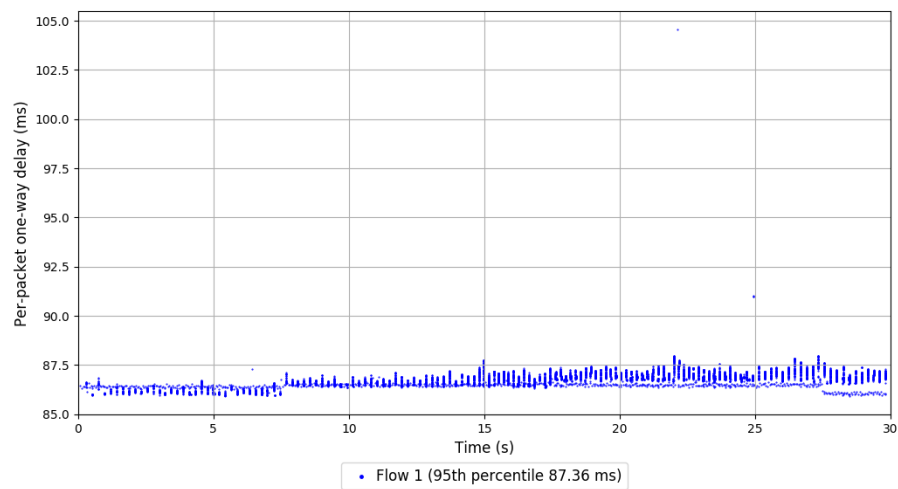
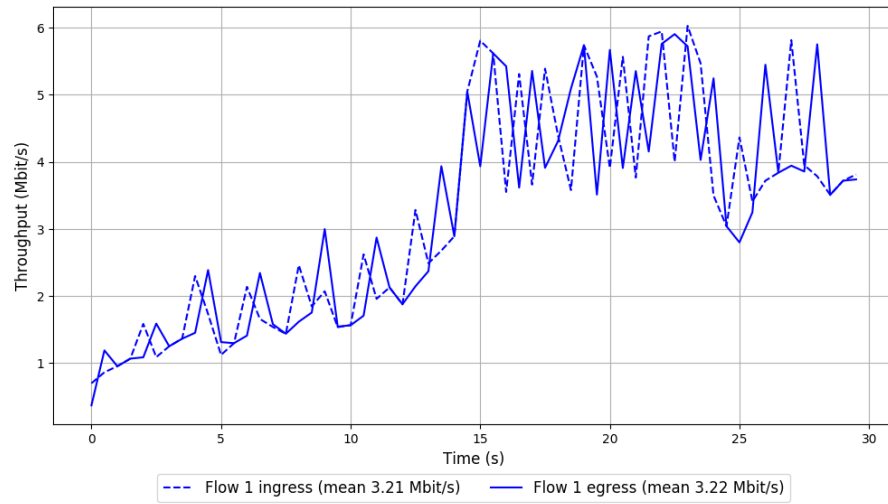
-- Flow 1:

Average throughput: 3.22 Mbit/s

95th percentile per-packet one-way delay: 87.360 ms

Loss rate: 0.10%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-30 06:17:09

End at: 2017-11-30 06:17:39

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 87.435 ms

Loss rate: 0.93%

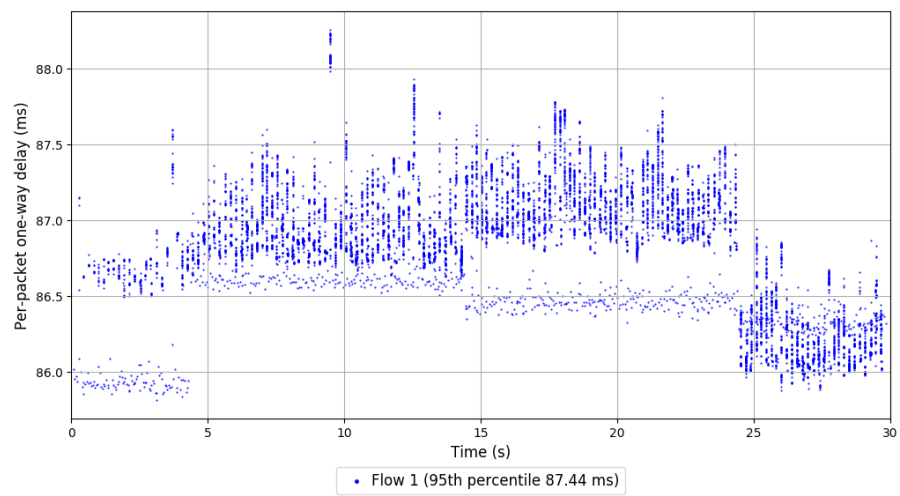
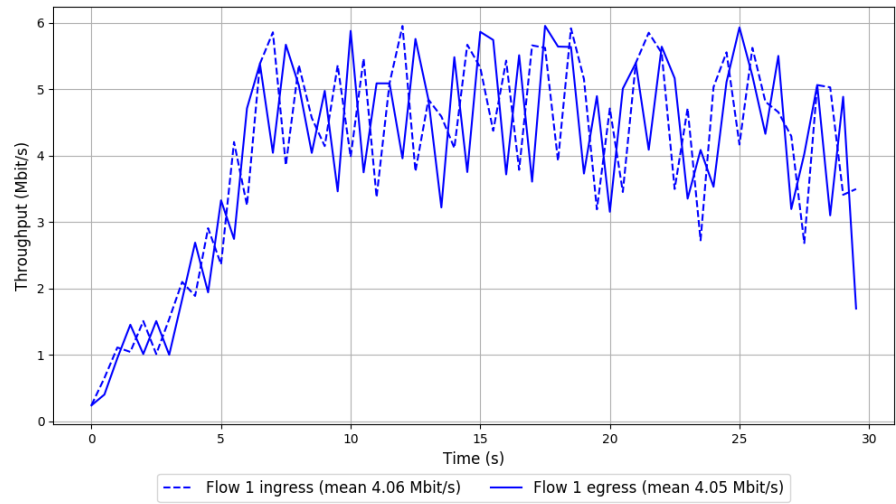
-- Flow 1:

Average throughput: 4.05 Mbit/s

95th percentile per-packet one-way delay: 87.435 ms

Loss rate: 0.93%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 06:27:51

End at: 2017-11-30 06:28:21

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 87.308 ms

Loss rate: 0.79%

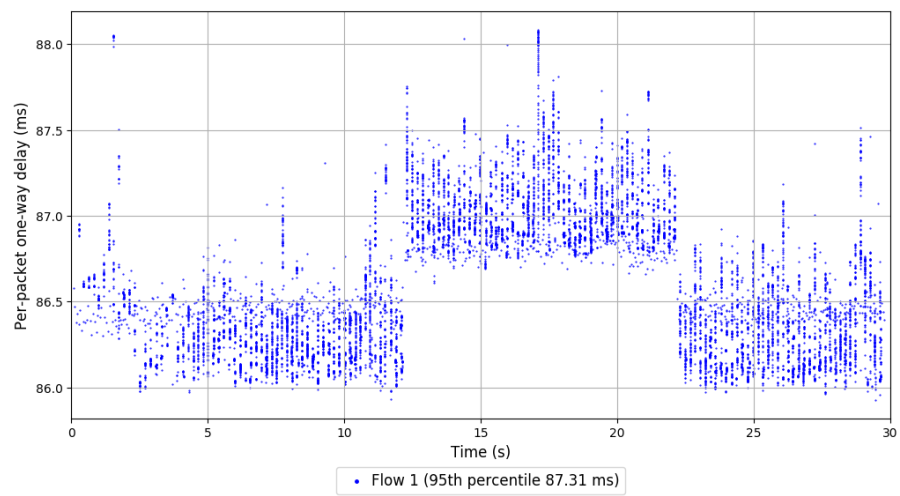
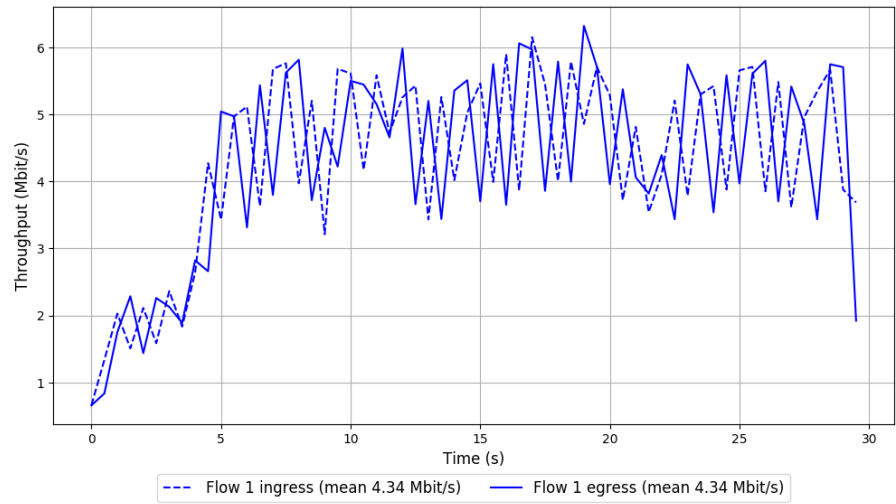
-- Flow 1:

Average throughput: 4.34 Mbit/s

95th percentile per-packet one-way delay: 87.308 ms

Loss rate: 0.79%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 06:38:38

End at: 2017-11-30 06:39:08

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 87.113 ms

Loss rate: 0.22%

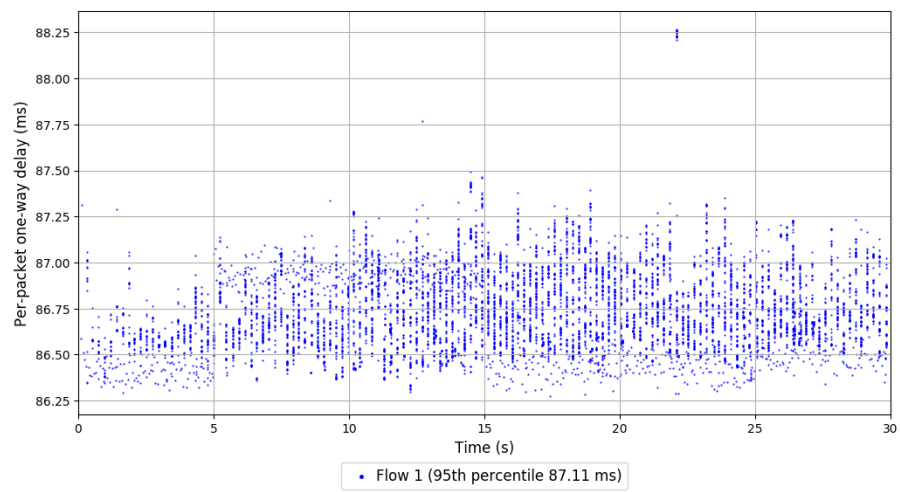
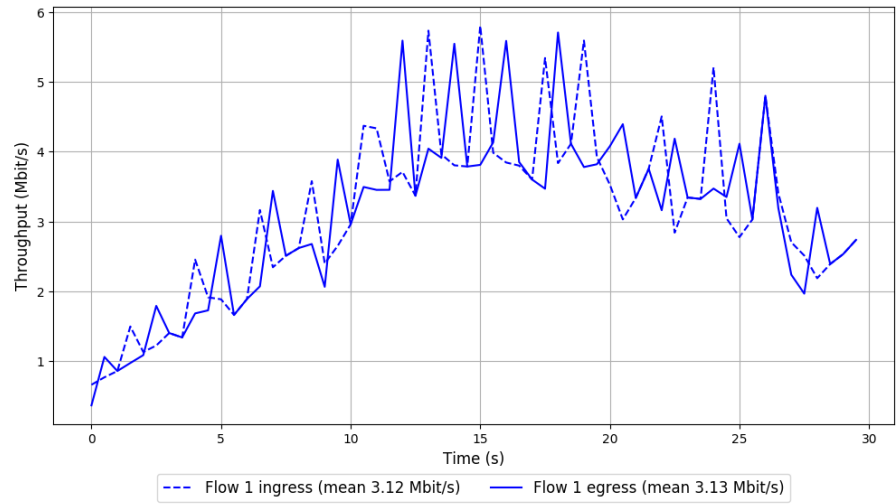
-- Flow 1:

Average throughput: 3.13 Mbit/s

95th percentile per-packet one-way delay: 87.113 ms

Loss rate: 0.22%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-30 06:49:30

End at: 2017-11-30 06:50:00

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 87.263 ms

Loss rate: 1.18%

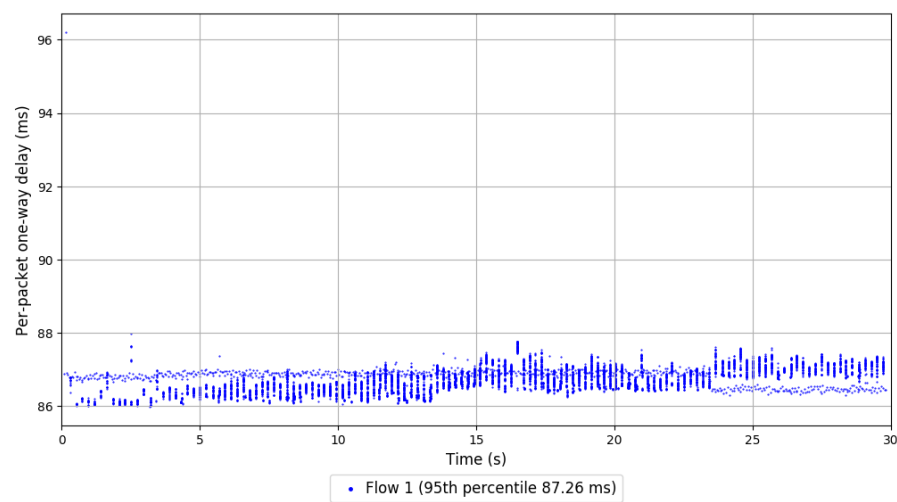
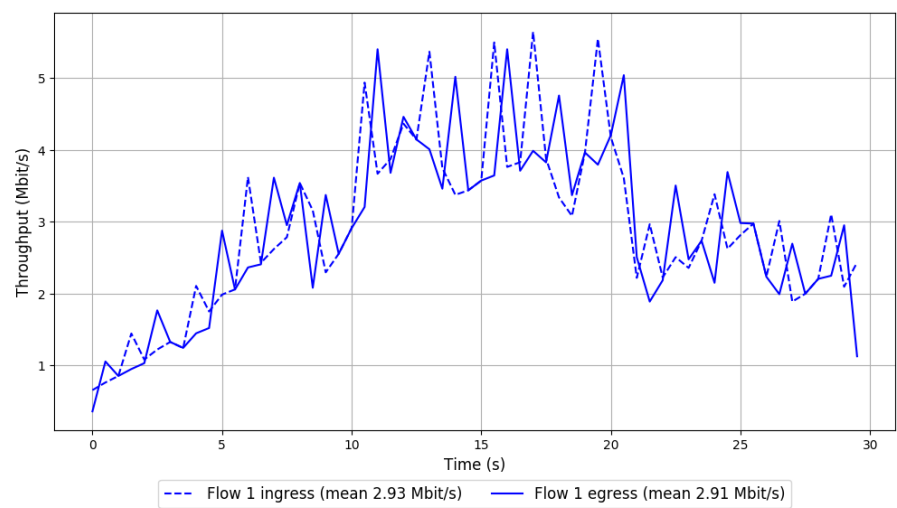
-- Flow 1:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 87.263 ms

Loss rate: 1.18%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-30 07:00:30

End at: 2017-11-30 07:01:00

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 87.594 ms

Loss rate: 0.78%

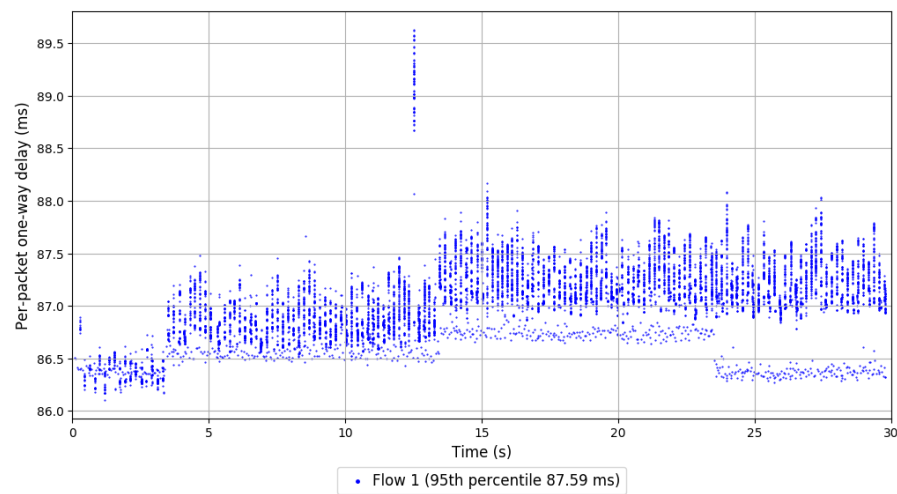
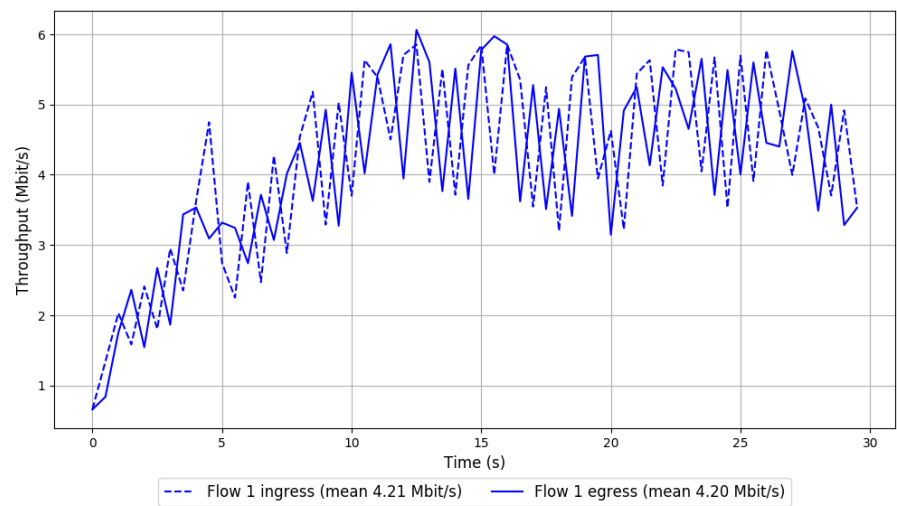
-- Flow 1:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 87.594 ms

Loss rate: 0.78%

Run 10: Report of Sprout — Data Link

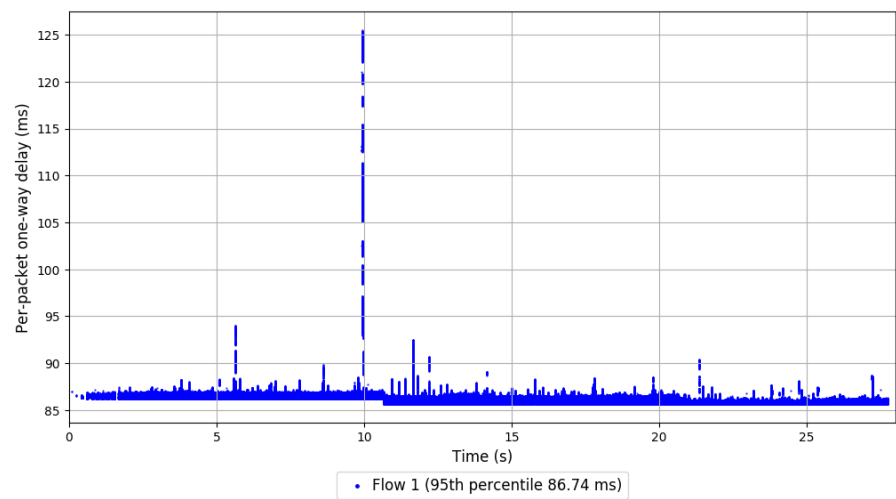
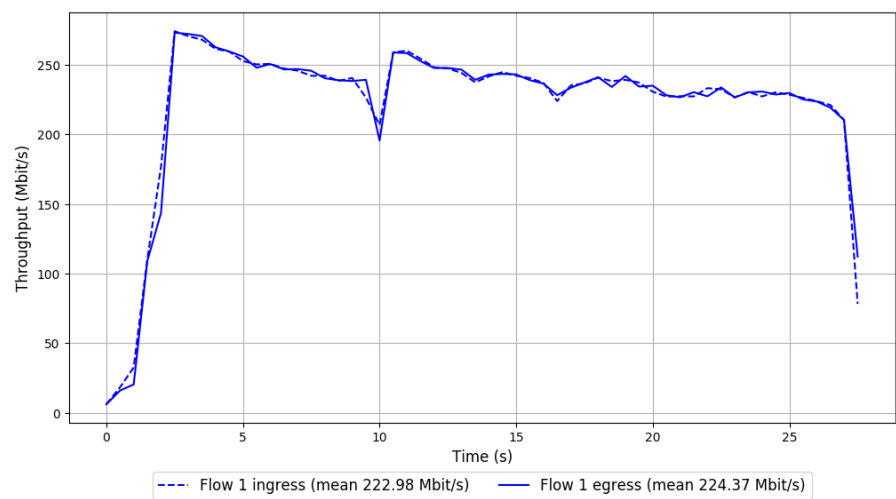


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 05:17:00
End at: 2017-11-30 05:17:30

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.37 Mbit/s
95th percentile per-packet one-way delay: 86.740 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 224.37 Mbit/s
95th percentile per-packet one-way delay: 86.740 ms
Loss rate: 0.05%
```

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

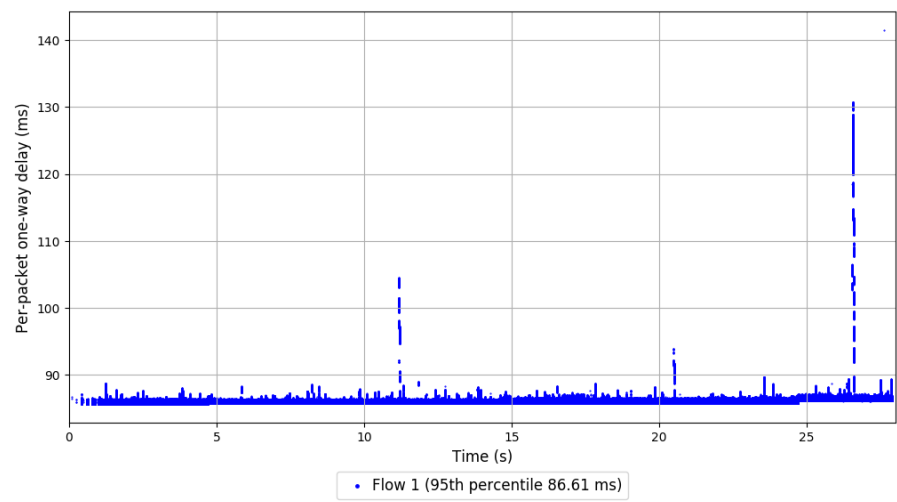
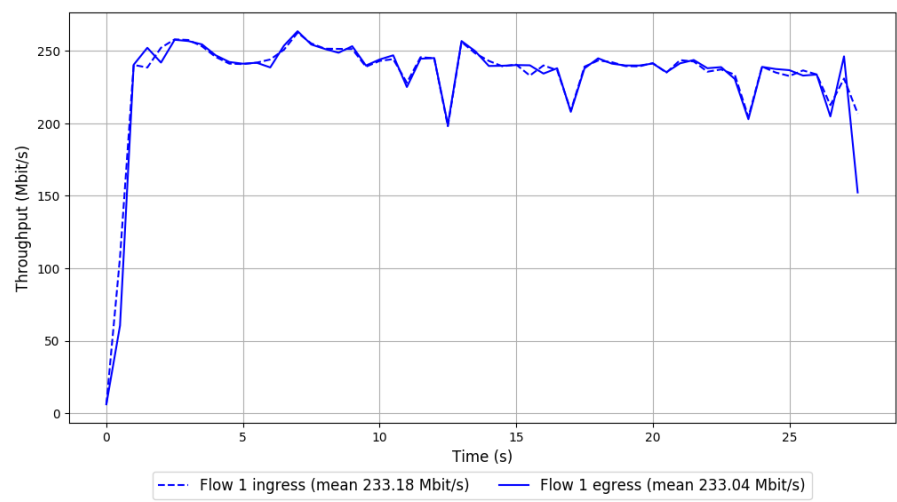


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 05:27:26
End at: 2017-11-30 05:27:56

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.04 Mbit/s
95th percentile per-packet one-way delay: 86.610 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 233.04 Mbit/s
95th percentile per-packet one-way delay: 86.610 ms
Loss rate: 0.67%
```

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

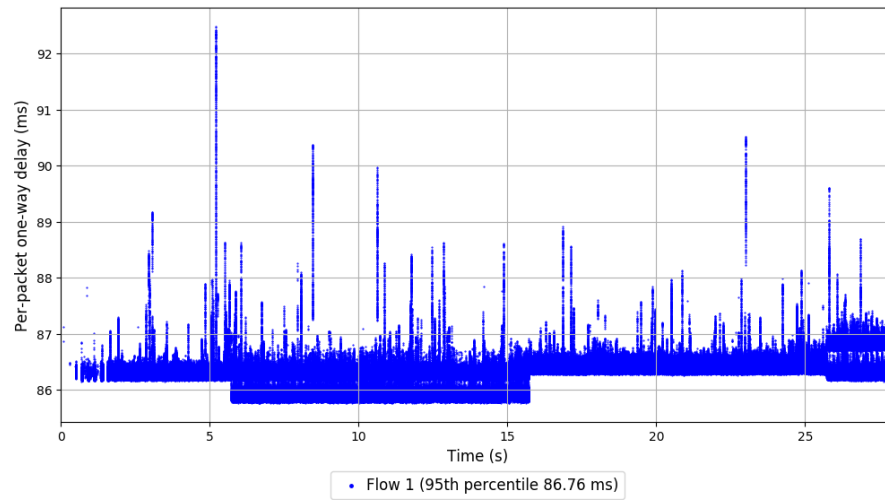
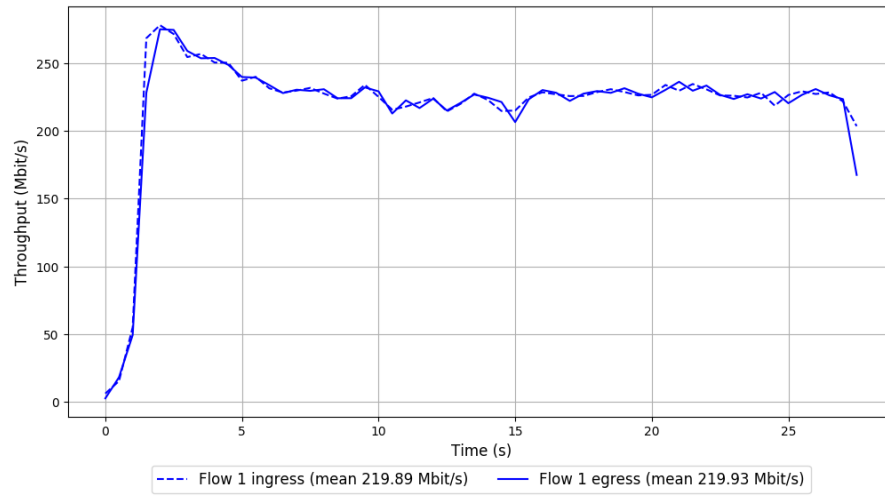


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 05:38:15
End at: 2017-11-30 05:38:45

# Below is generated by plot.py at 2017-11-30 09:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.93 Mbit/s
95th percentile per-packet one-way delay: 86.758 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 219.93 Mbit/s
95th percentile per-packet one-way delay: 86.758 ms
Loss rate: 0.60%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 05:49:16

End at: 2017-11-30 05:49:46

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.66 Mbit/s

95th percentile per-packet one-way delay: 86.617 ms

Loss rate: 0.57%

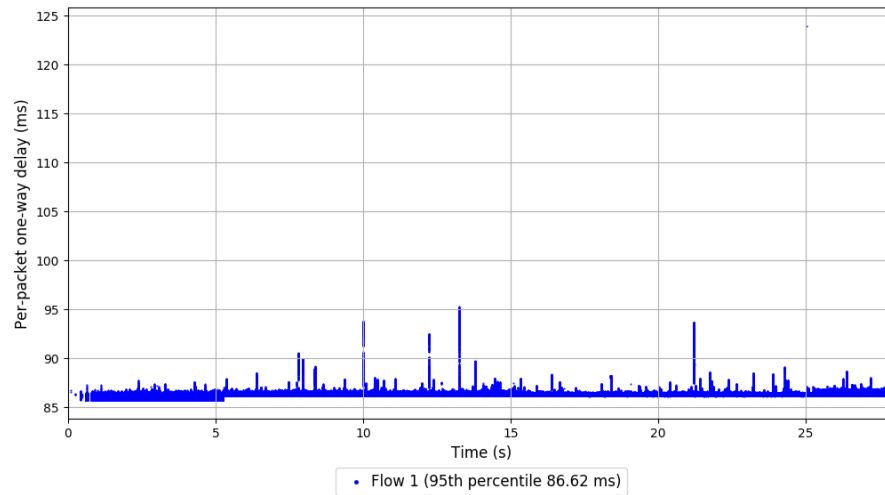
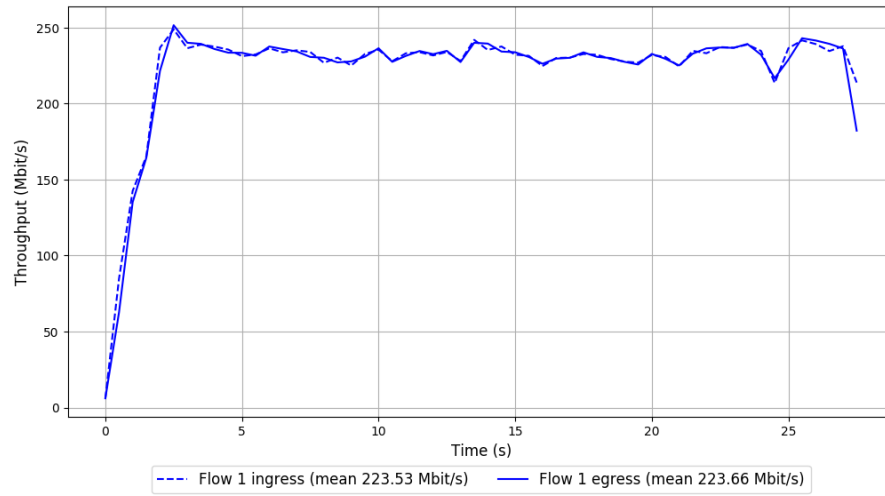
-- Flow 1:

Average throughput: 223.66 Mbit/s

95th percentile per-packet one-way delay: 86.617 ms

Loss rate: 0.57%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 06:00:05

End at: 2017-11-30 06:00:35

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.16 Mbit/s

95th percentile per-packet one-way delay: 86.819 ms

Loss rate: 0.65%

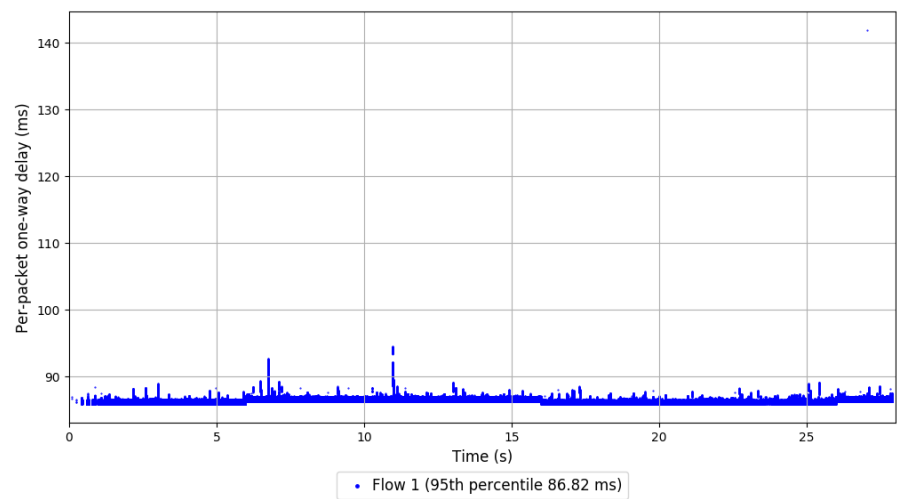
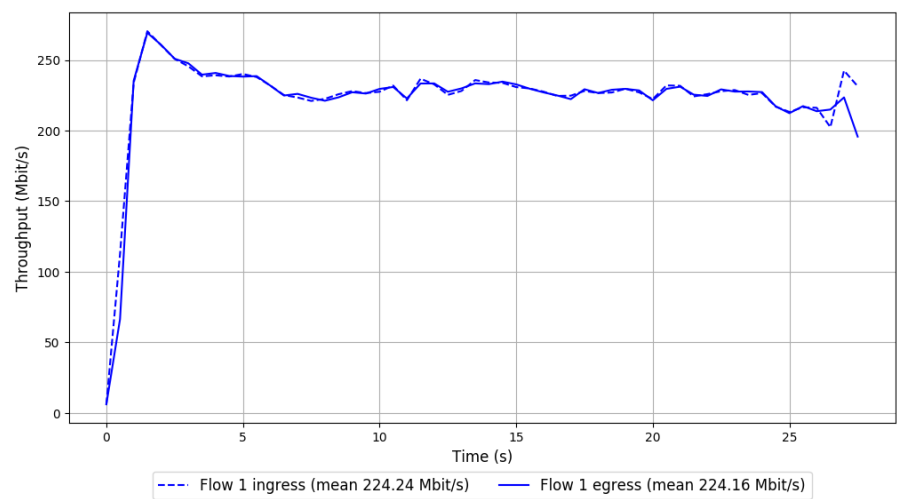
-- Flow 1:

Average throughput: 224.16 Mbit/s

95th percentile per-packet one-way delay: 86.819 ms

Loss rate: 0.65%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 06:11:04

End at: 2017-11-30 06:11:34

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.91 Mbit/s

95th percentile per-packet one-way delay: 86.853 ms

Loss rate: 0.64%

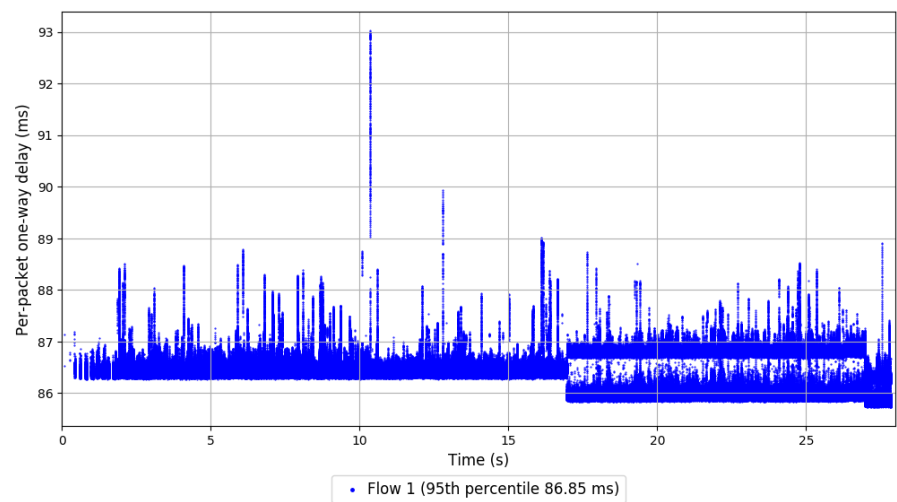
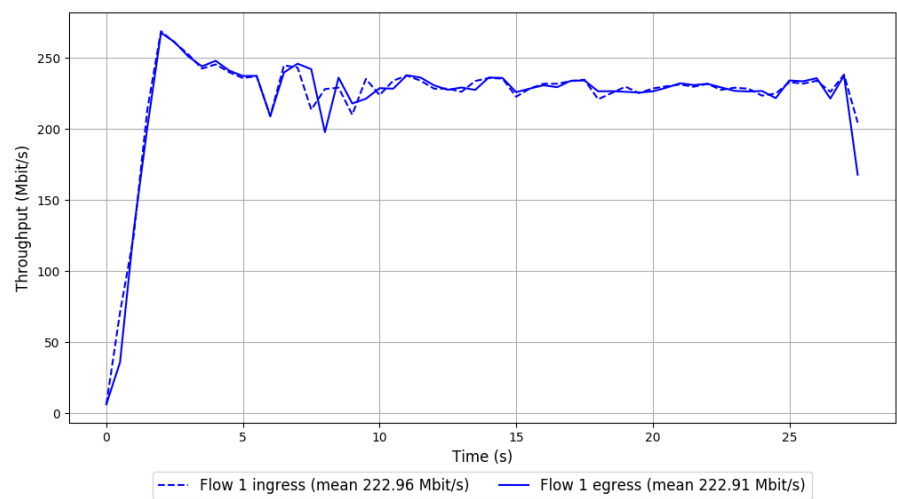
-- Flow 1:

Average throughput: 222.91 Mbit/s

95th percentile per-packet one-way delay: 86.853 ms

Loss rate: 0.64%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 06:21:54

End at: 2017-11-30 06:22:24

Below is generated by plot.py at 2017-11-30 09:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.79 Mbit/s

95th percentile per-packet one-way delay: 86.814 ms

Loss rate: 0.64%

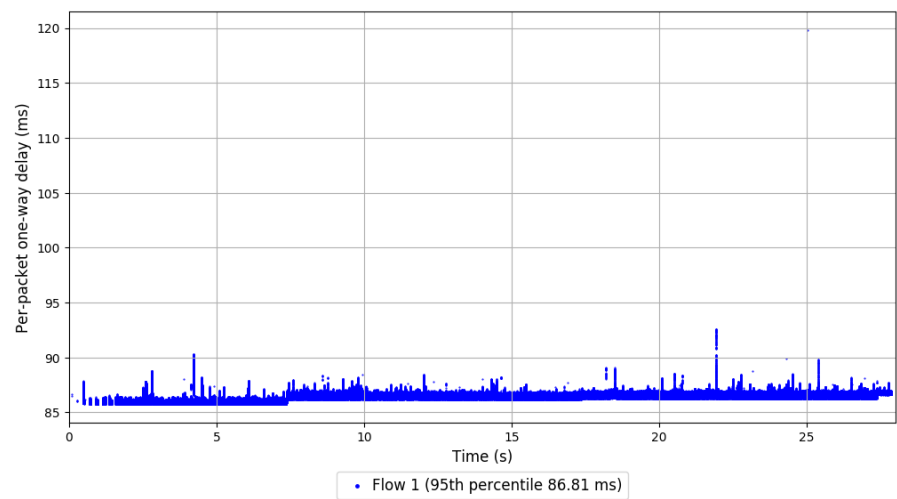
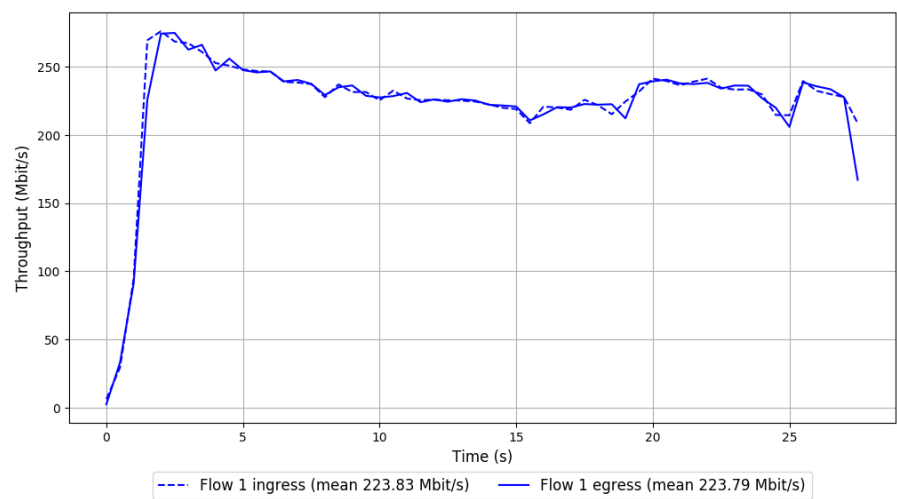
-- Flow 1:

Average throughput: 223.79 Mbit/s

95th percentile per-packet one-way delay: 86.814 ms

Loss rate: 0.64%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 06:32:27

End at: 2017-11-30 06:32:57

Below is generated by plot.py at 2017-11-30 09:18:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.26 Mbit/s

95th percentile per-packet one-way delay: 86.769 ms

Loss rate: 0.58%

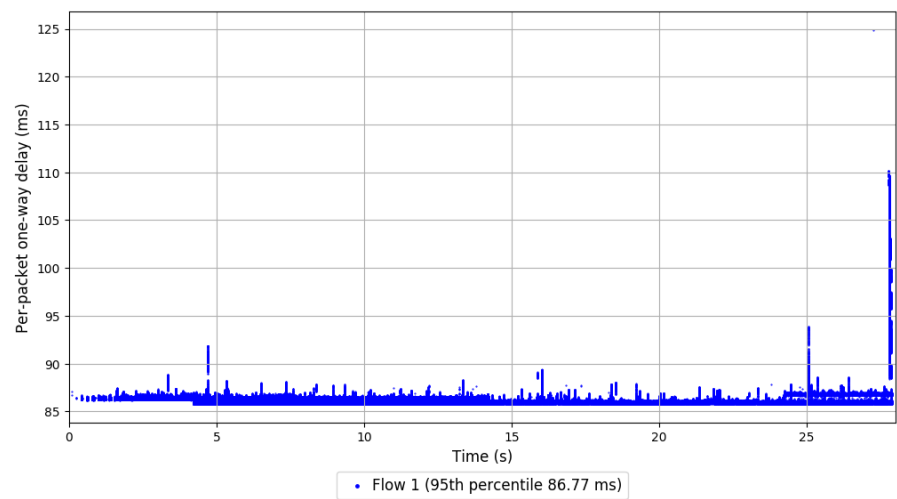
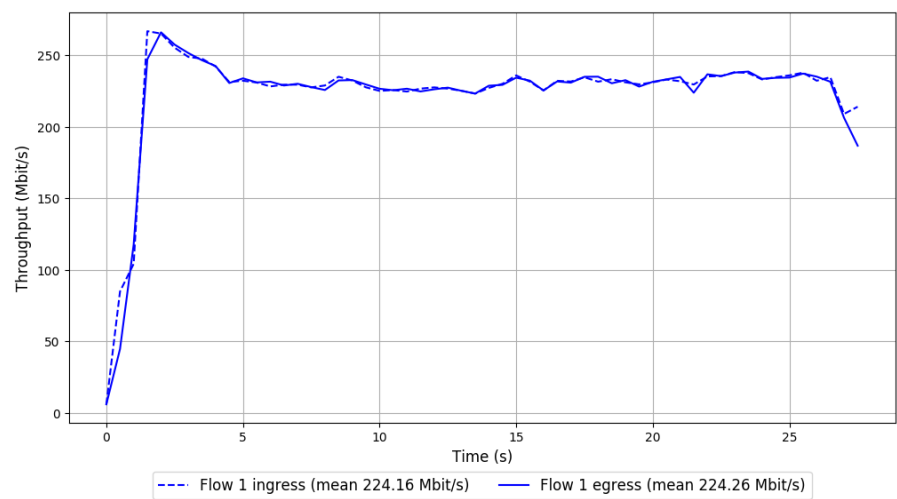
-- Flow 1:

Average throughput: 224.26 Mbit/s

95th percentile per-packet one-way delay: 86.769 ms

Loss rate: 0.58%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 06:43:22

End at: 2017-11-30 06:43:52

Below is generated by plot.py at 2017-11-30 09:18:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.01 Mbit/s

95th percentile per-packet one-way delay: 86.884 ms

Loss rate: 0.68%

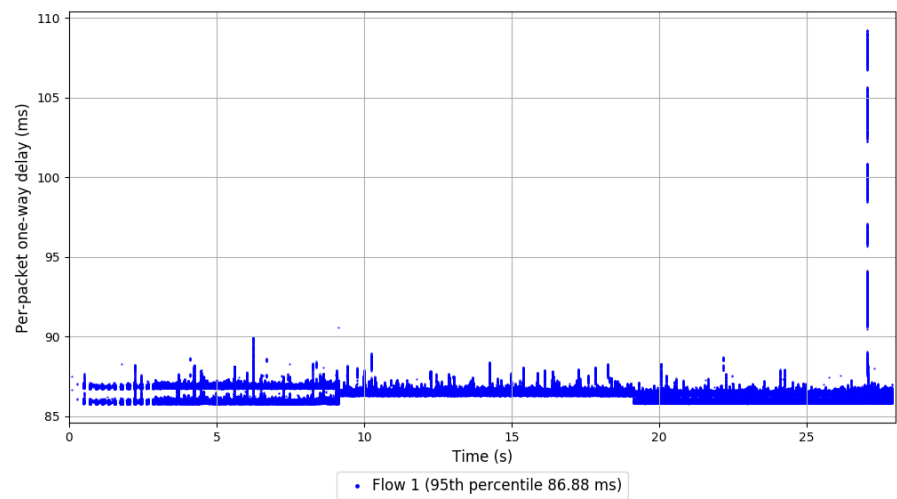
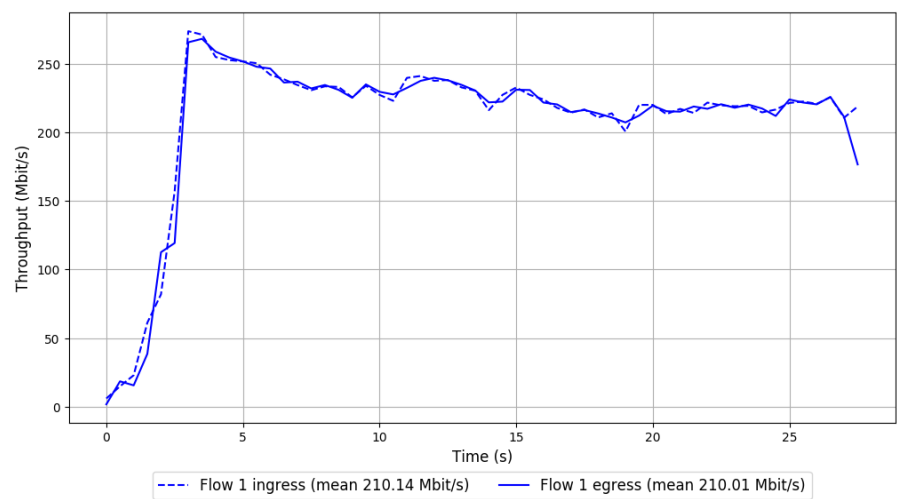
-- Flow 1:

Average throughput: 210.01 Mbit/s

95th percentile per-packet one-way delay: 86.884 ms

Loss rate: 0.68%

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

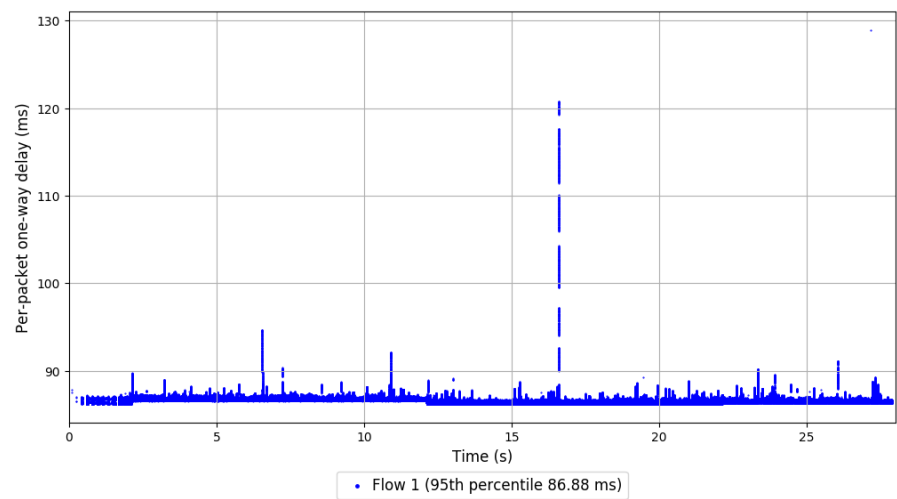
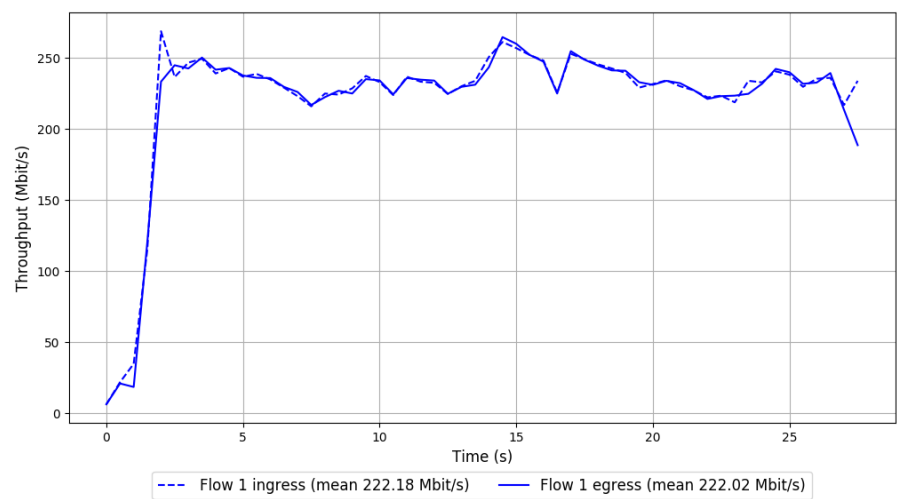


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 06:54:19
End at: 2017-11-30 06:54:49

# Below is generated by plot.py at 2017-11-30 09:18:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.02 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 222.02 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 0.69%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 05:16:16

End at: 2017-11-30 05:16:46

Below is generated by plot.py at 2017-11-30 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.98 Mbit/s

95th percentile per-packet one-way delay: 87.320 ms

Loss rate: 0.58%

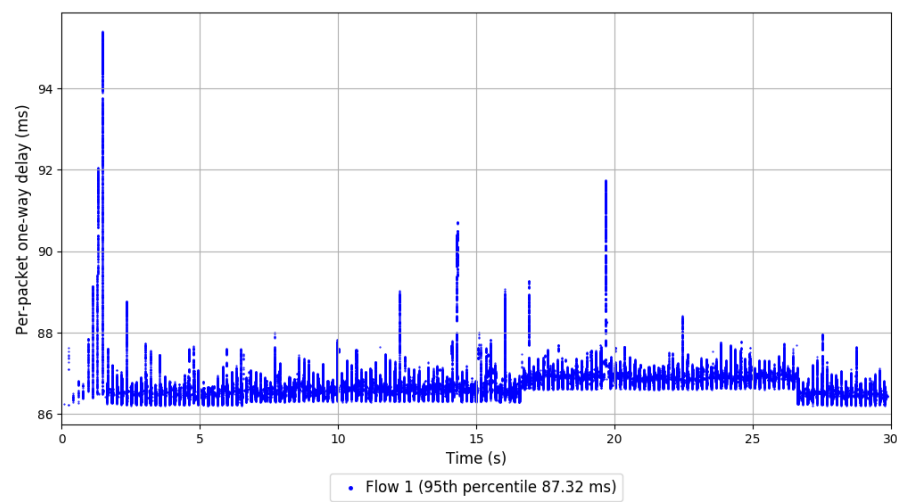
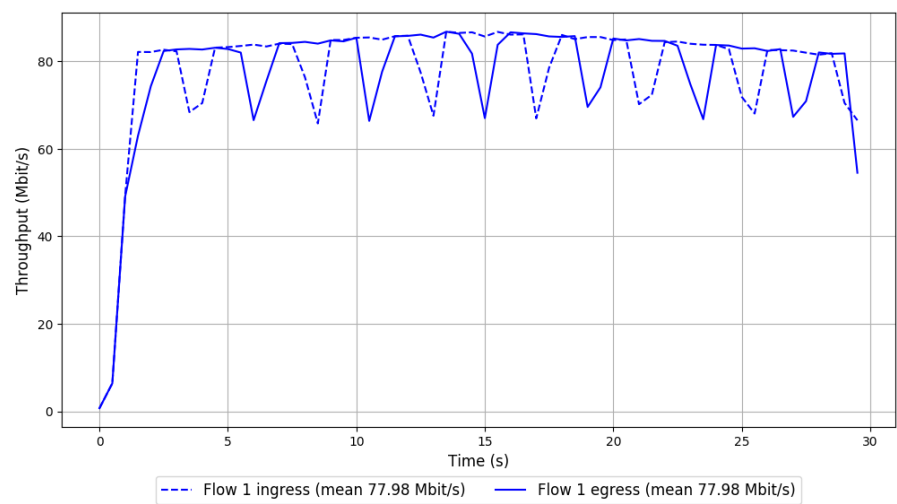
-- Flow 1:

Average throughput: 77.98 Mbit/s

95th percentile per-packet one-way delay: 87.320 ms

Loss rate: 0.58%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 05:26:45

End at: 2017-11-30 05:27:15

Below is generated by plot.py at 2017-11-30 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.73 Mbit/s

95th percentile per-packet one-way delay: 87.450 ms

Loss rate: 0.24%

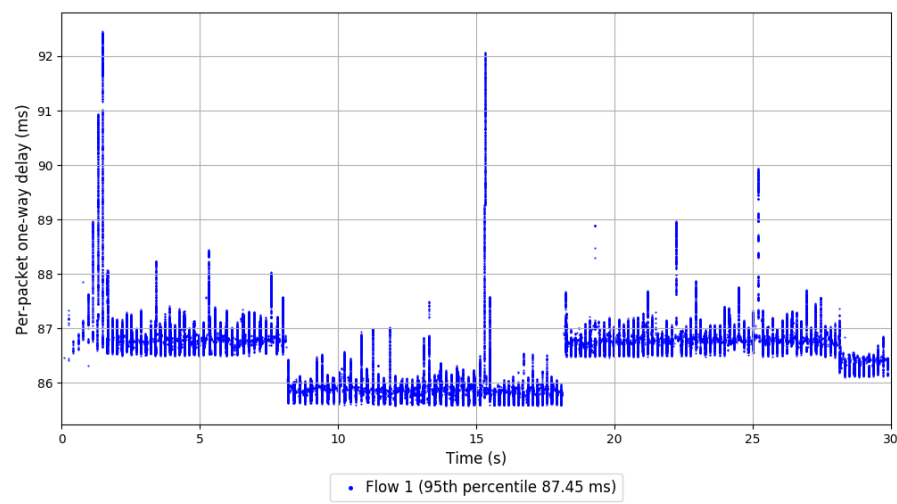
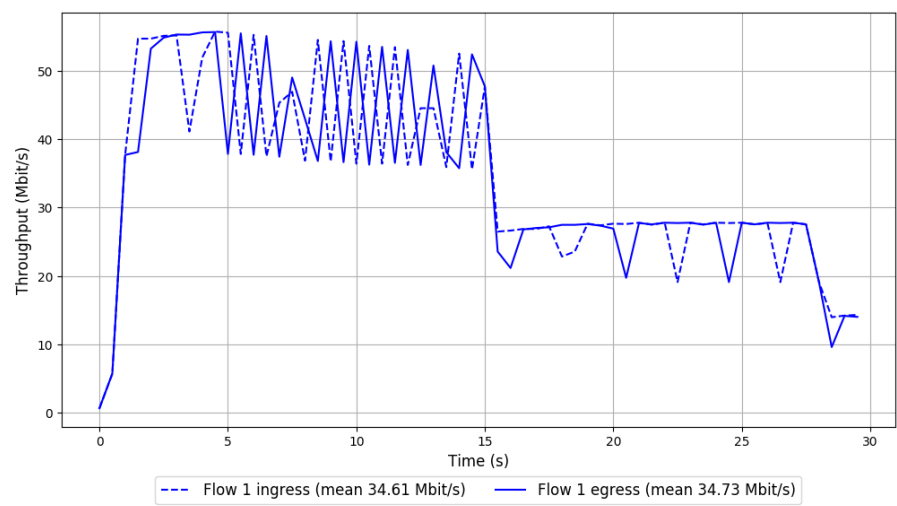
-- Flow 1:

Average throughput: 34.73 Mbit/s

95th percentile per-packet one-way delay: 87.450 ms

Loss rate: 0.24%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 05:37:32

End at: 2017-11-30 05:38:02

Below is generated by plot.py at 2017-11-30 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 87.528 ms

Loss rate: 0.39%

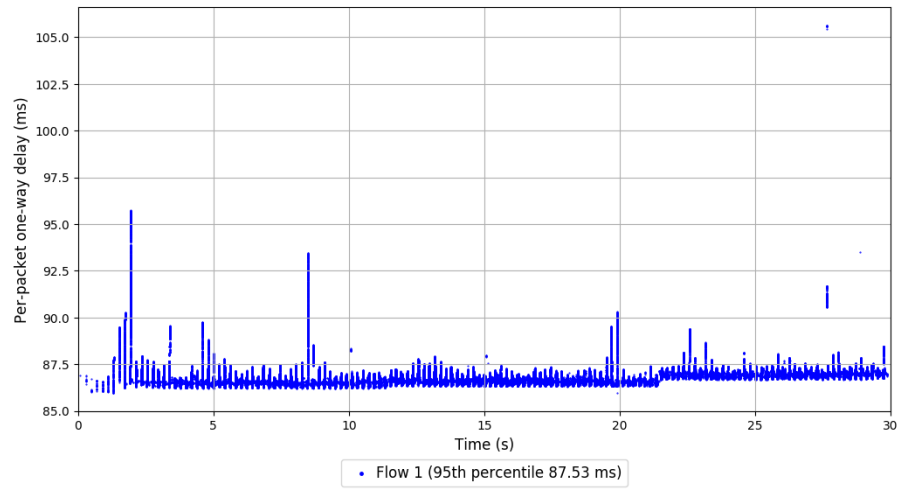
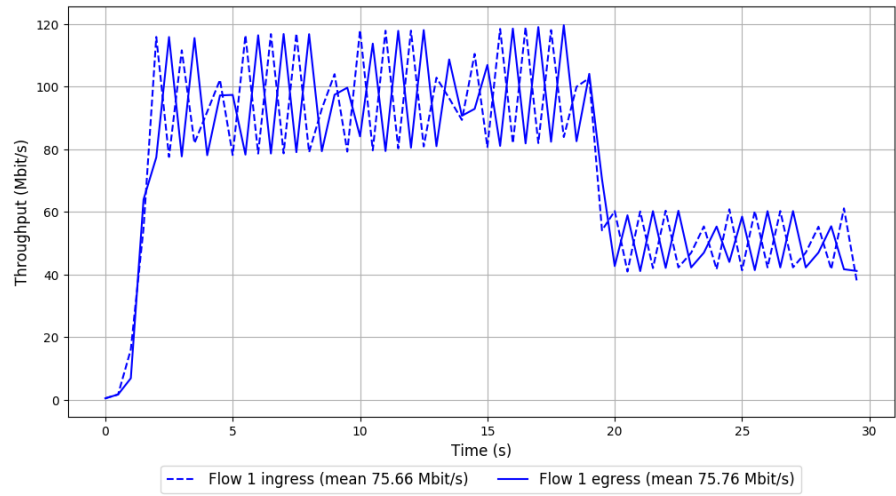
-- Flow 1:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 87.528 ms

Loss rate: 0.39%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 05:48:34

End at: 2017-11-30 05:49:04

Below is generated by plot.py at 2017-11-30 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.93 Mbit/s

95th percentile per-packet one-way delay: 87.447 ms

Loss rate: 0.61%

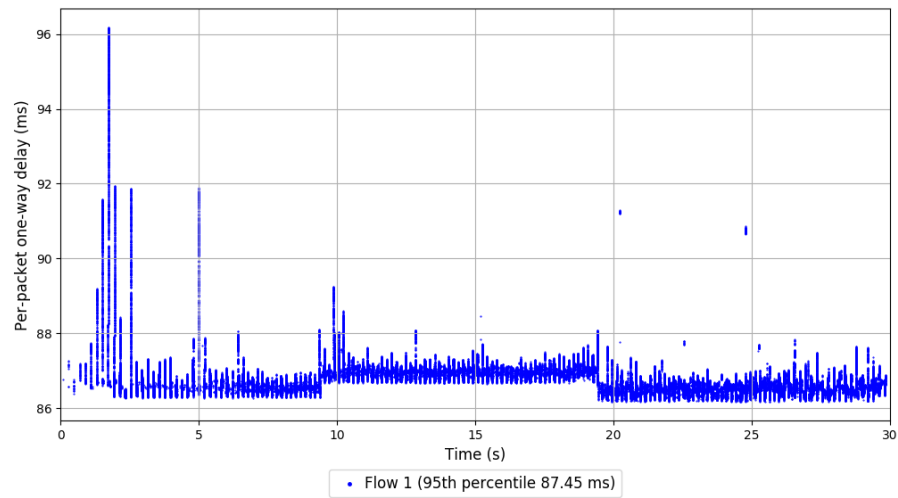
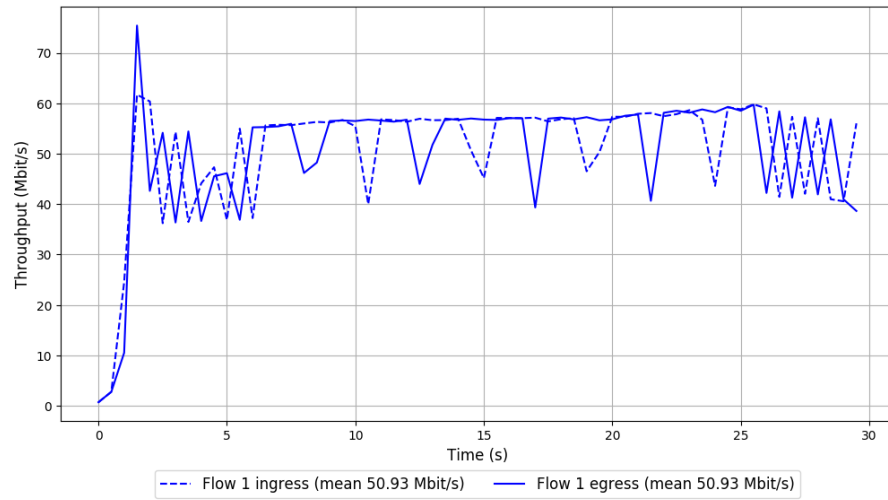
-- Flow 1:

Average throughput: 50.93 Mbit/s

95th percentile per-packet one-way delay: 87.447 ms

Loss rate: 0.61%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 05:59:23

End at: 2017-11-30 05:59:53

Below is generated by plot.py at 2017-11-30 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 87.201 ms

Loss rate: 0.65%

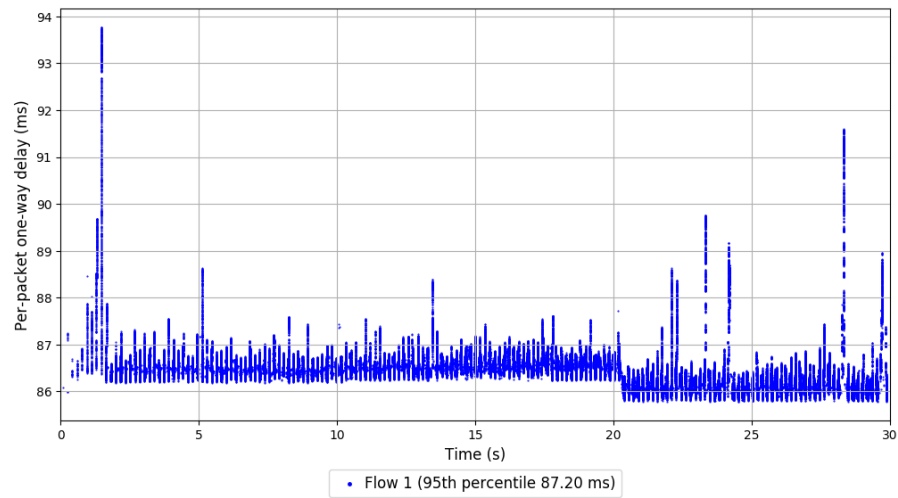
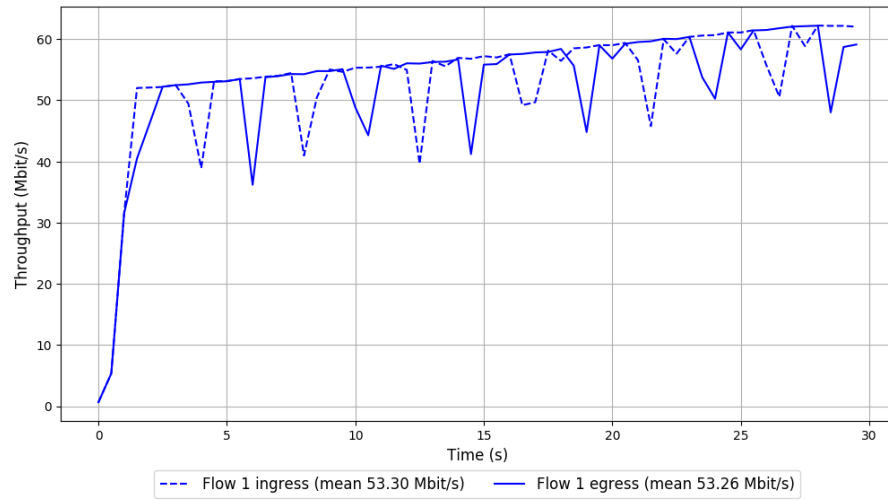
-- Flow 1:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 87.201 ms

Loss rate: 0.65%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 06:10:22

End at: 2017-11-30 06:10:52

Below is generated by plot.py at 2017-11-30 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.25 Mbit/s

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

Loss rate: 0.63%

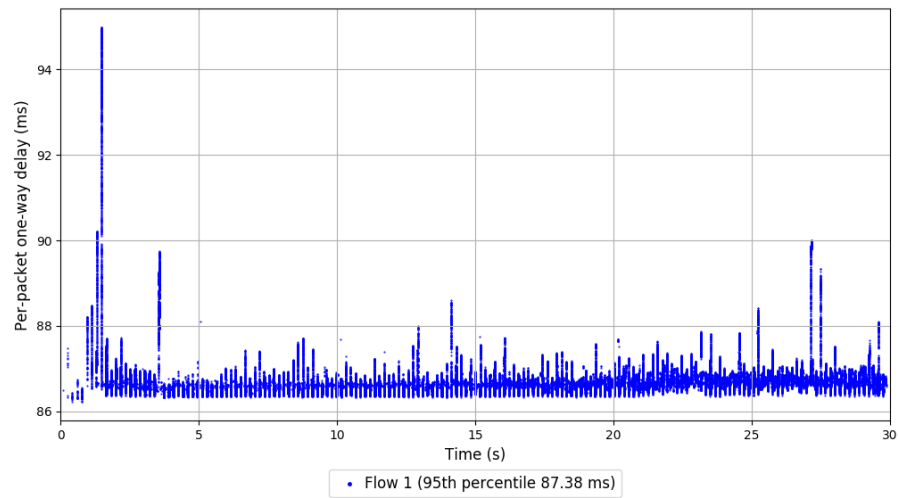
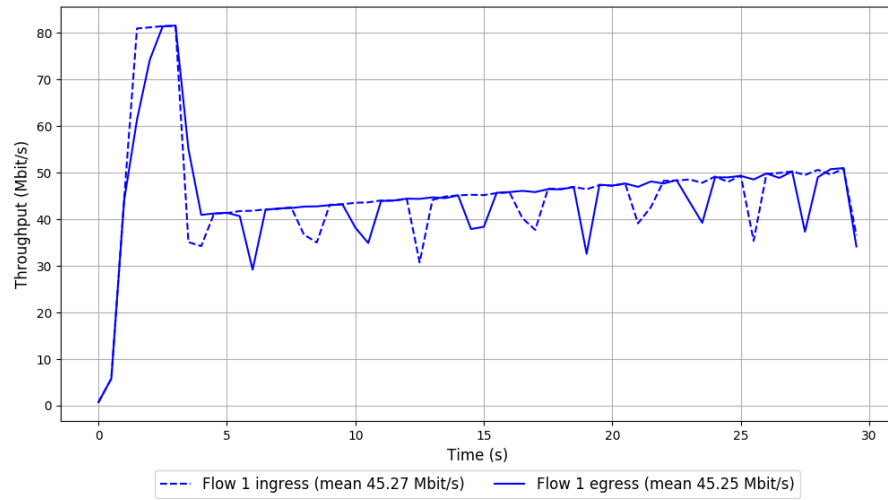
-- Flow 1:

Average throughput: 45.25 Mbit/s

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

Loss rate: 0.63%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 06:21:12

End at: 2017-11-30 06:21:42

Below is generated by plot.py at 2017-11-30 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 87.486 ms

Loss rate: 0.39%

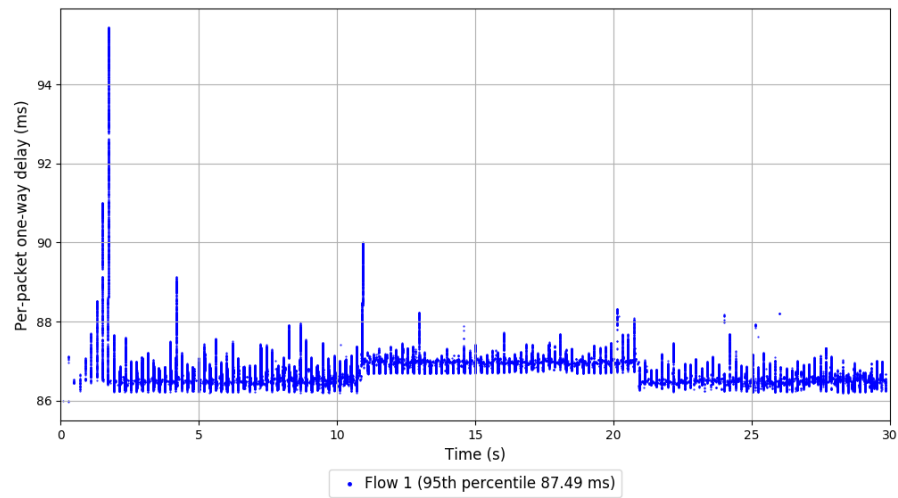
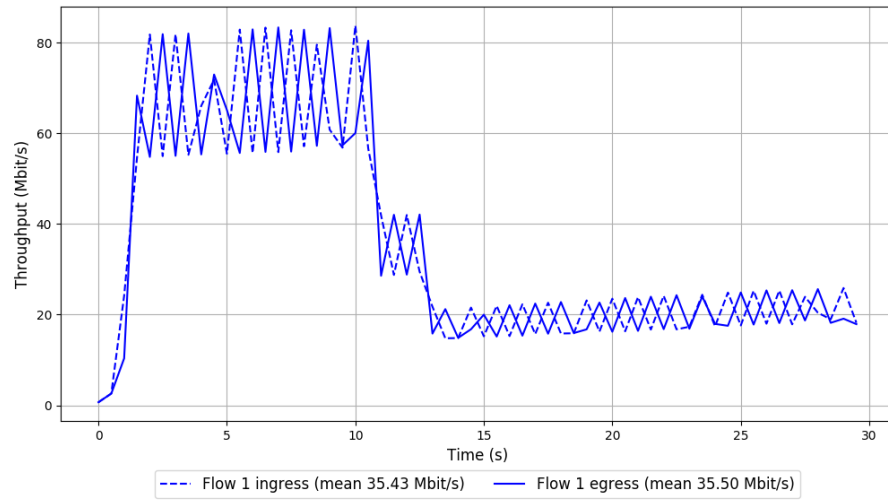
-- Flow 1:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 87.486 ms

Loss rate: 0.39%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 06:31:45

End at: 2017-11-30 06:32:15

Below is generated by plot.py at 2017-11-30 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 90.730 ms

Loss rate: 0.54%

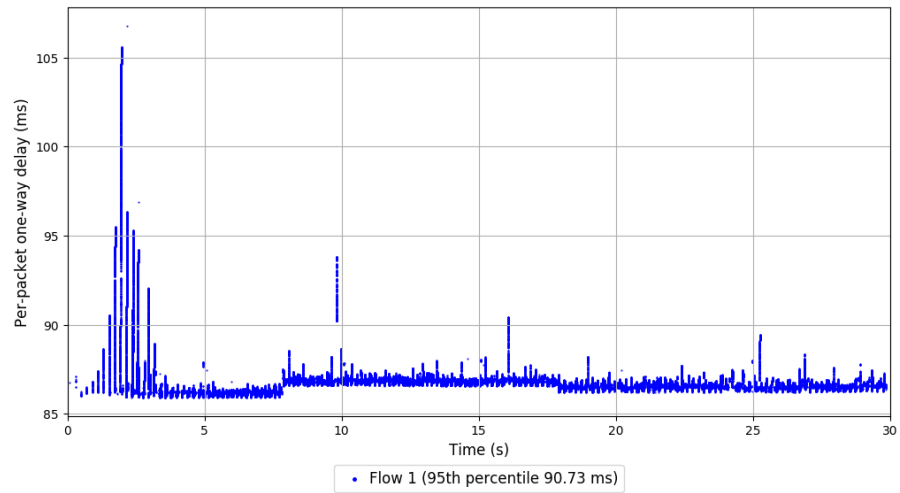
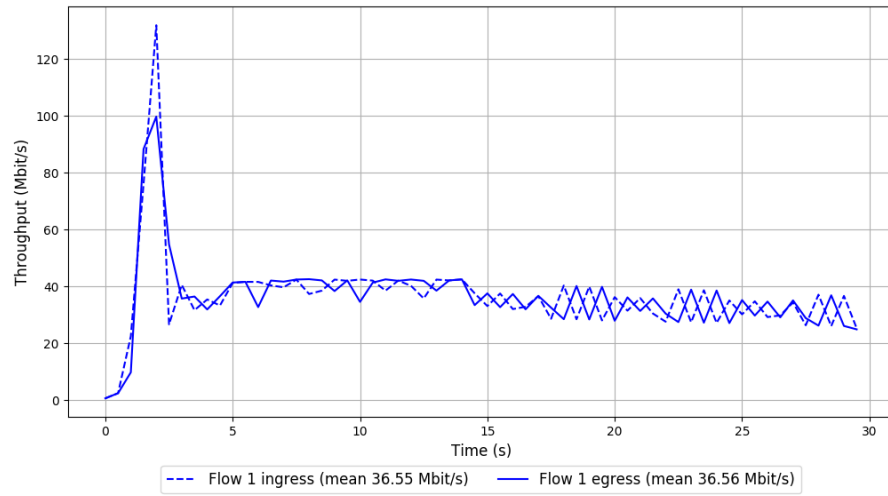
-- Flow 1:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 90.730 ms

Loss rate: 0.54%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 06:42:39

End at: 2017-11-30 06:43:09

Below is generated by plot.py at 2017-11-30 09:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 87.805 ms

Loss rate: 0.40%

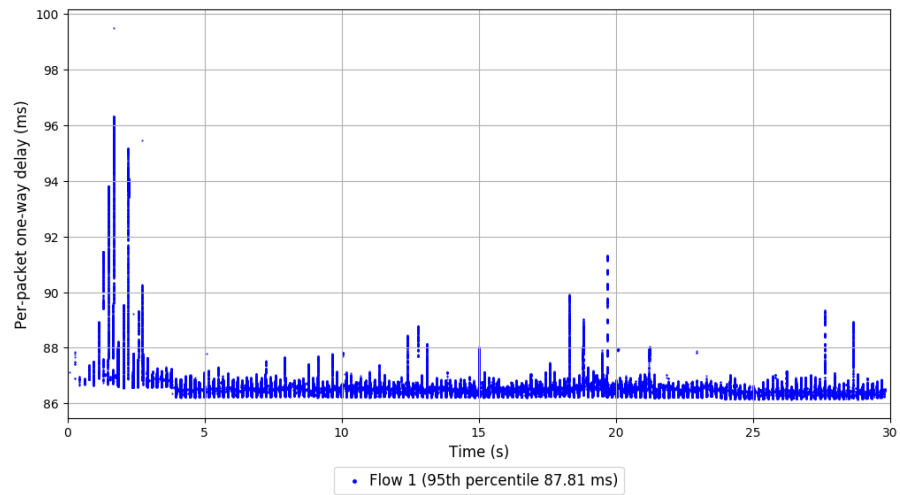
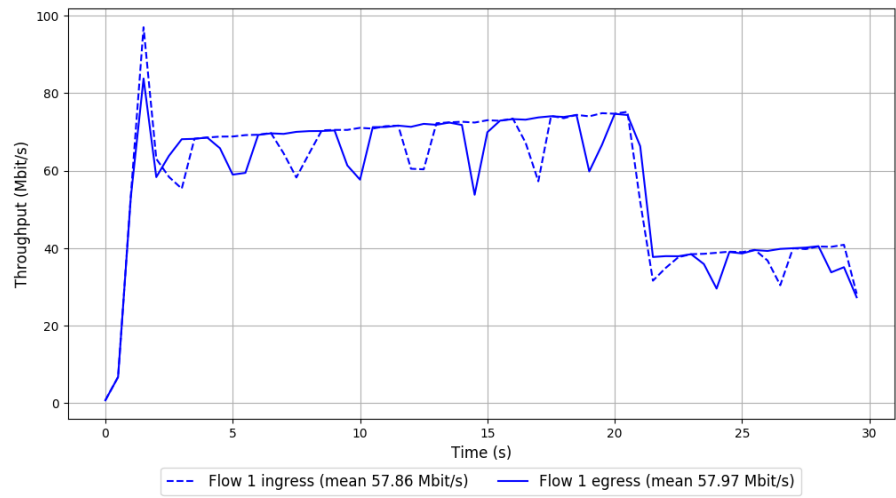
-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 87.805 ms

Loss rate: 0.40%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 06:53:38

End at: 2017-11-30 06:54:08

Below is generated by plot.py at 2017-11-30 09:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 88.038 ms

Loss rate: 0.42%

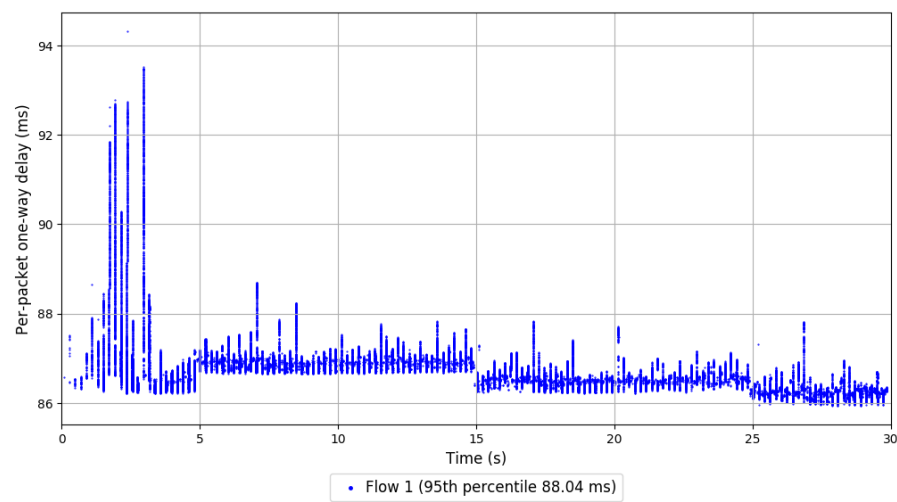
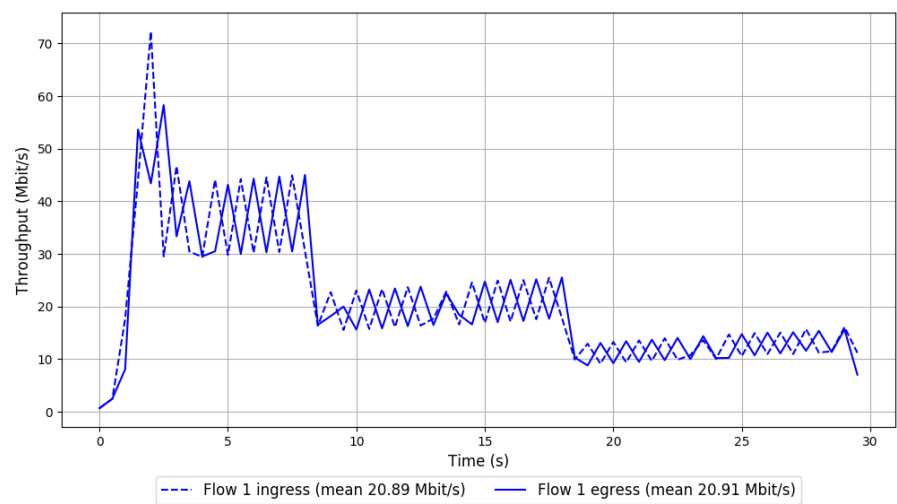
-- Flow 1:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 88.038 ms

Loss rate: 0.42%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-30 05:24:27

End at: 2017-11-30 05:24:57

Below is generated by plot.py at 2017-11-30 09:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.76 Mbit/s

95th percentile per-packet one-way delay: 114.746 ms

Loss rate: 1.00%

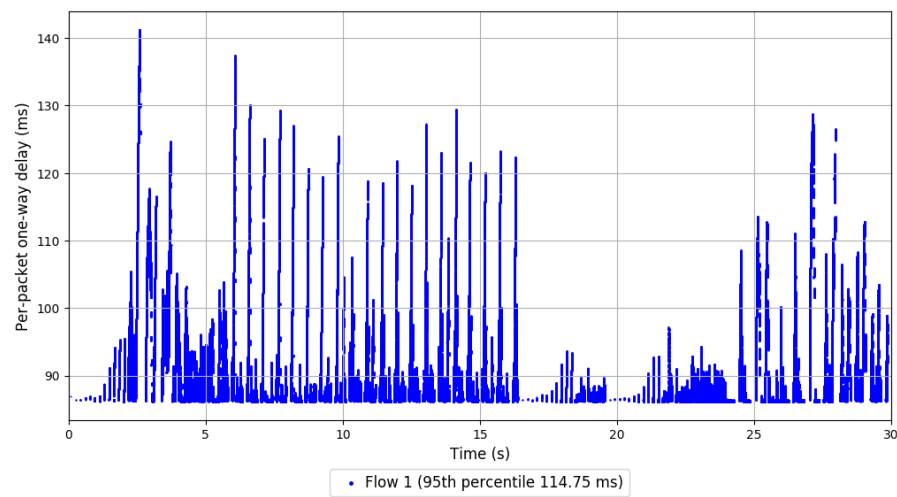
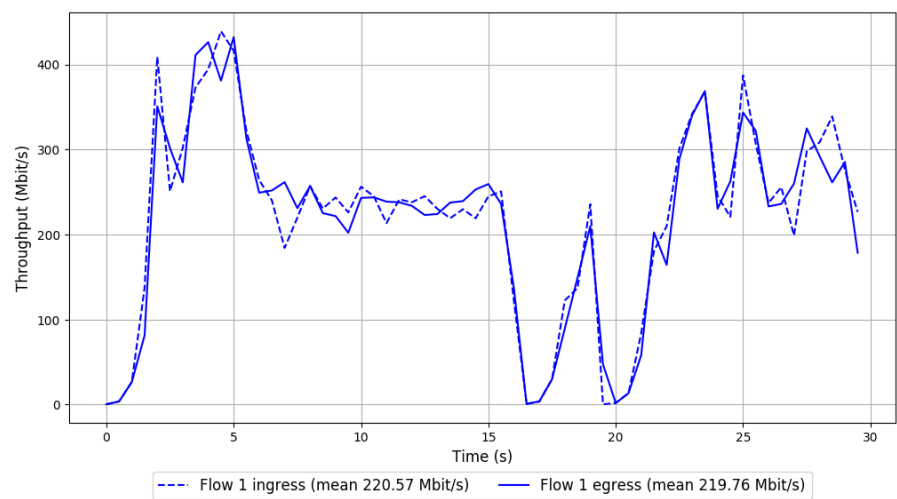
-- Flow 1:

Average throughput: 219.76 Mbit/s

95th percentile per-packet one-way delay: 114.746 ms

Loss rate: 1.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 05:34:49

End at: 2017-11-30 05:35:19

Below is generated by plot.py at 2017-11-30 09:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.71 Mbit/s

95th percentile per-packet one-way delay: 204.154 ms

Loss rate: 1.22%

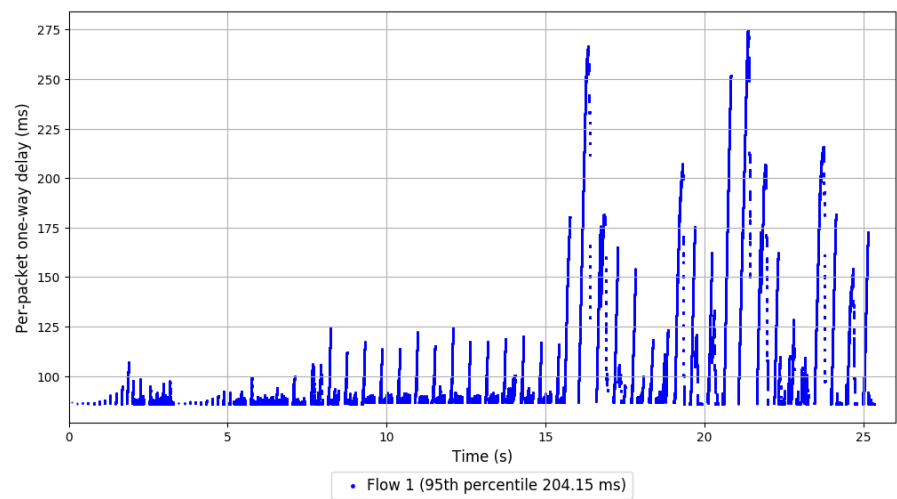
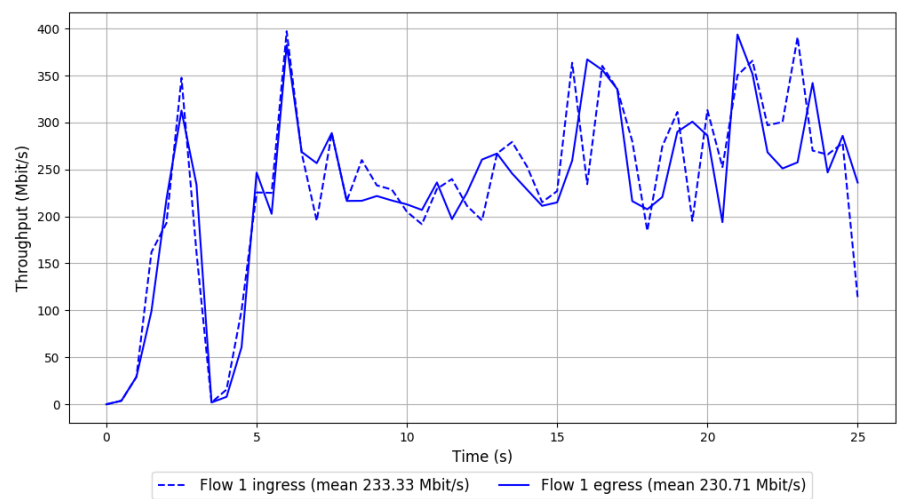
-- Flow 1:

Average throughput: 230.71 Mbit/s

95th percentile per-packet one-way delay: 204.154 ms

Loss rate: 1.22%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 05:45:51

End at: 2017-11-30 05:46:21

Below is generated by plot.py at 2017-11-30 09:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.96 Mbit/s

95th percentile per-packet one-way delay: 113.526 ms

Loss rate: 0.14%

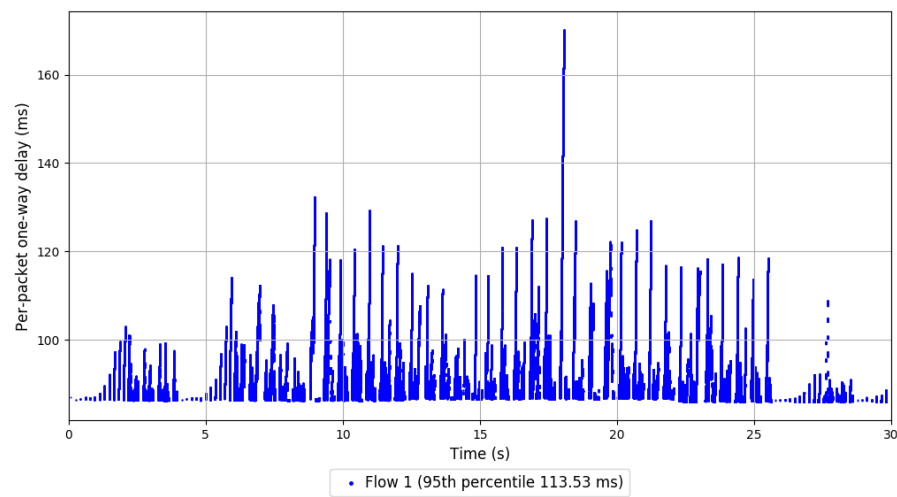
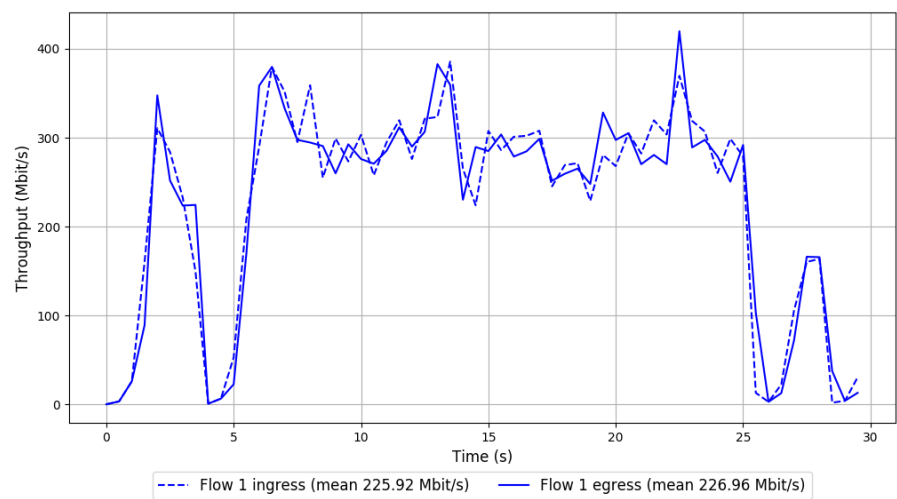
-- Flow 1:

Average throughput: 226.96 Mbit/s

95th percentile per-packet one-way delay: 113.526 ms

Loss rate: 0.14%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 05:56:38

End at: 2017-11-30 05:57:08

Below is generated by plot.py at 2017-11-30 09:19:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.79 Mbit/s

95th percentile per-packet one-way delay: 231.852 ms

Loss rate: 3.33%

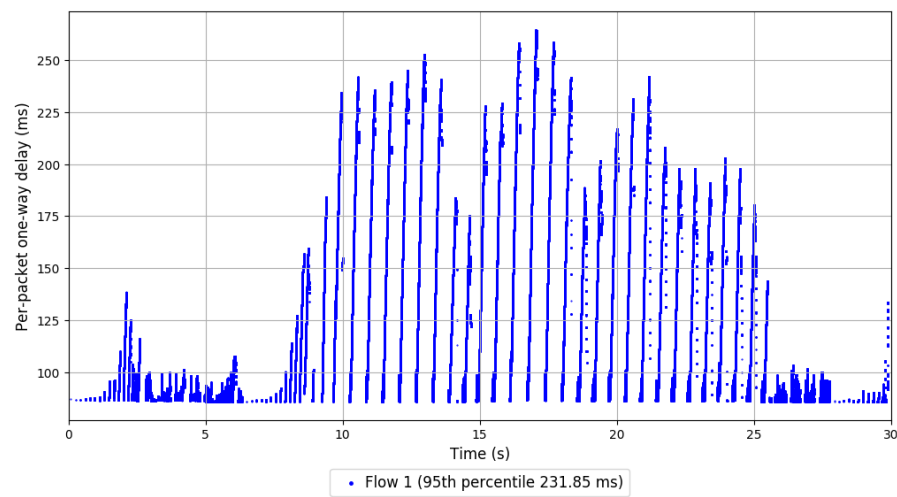
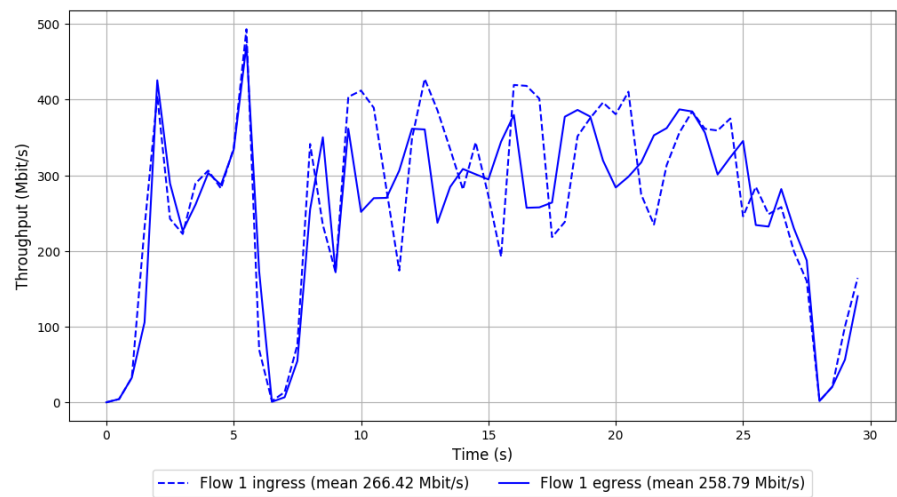
-- Flow 1:

Average throughput: 258.79 Mbit/s

95th percentile per-packet one-way delay: 231.852 ms

Loss rate: 3.33%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 06:07:41

End at: 2017-11-30 06:08:11

Below is generated by plot.py at 2017-11-30 09:19:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.59 Mbit/s

95th percentile per-packet one-way delay: 106.513 ms

Loss rate: 0.09%

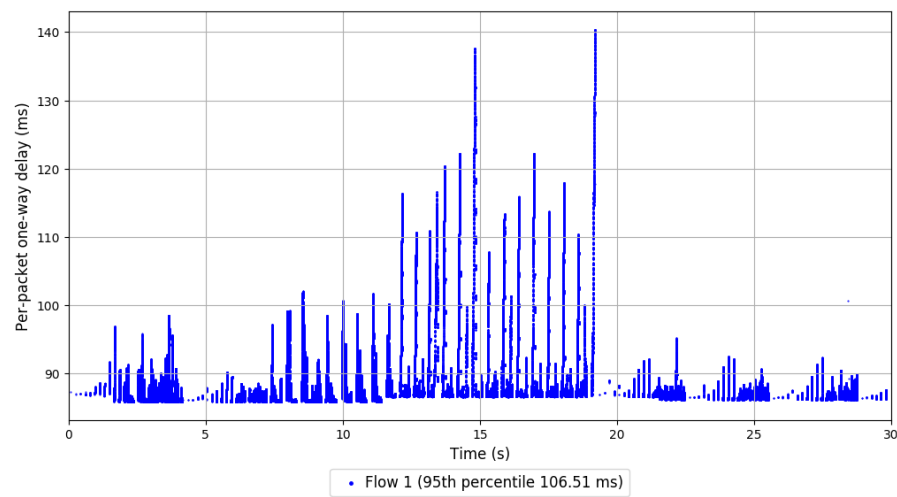
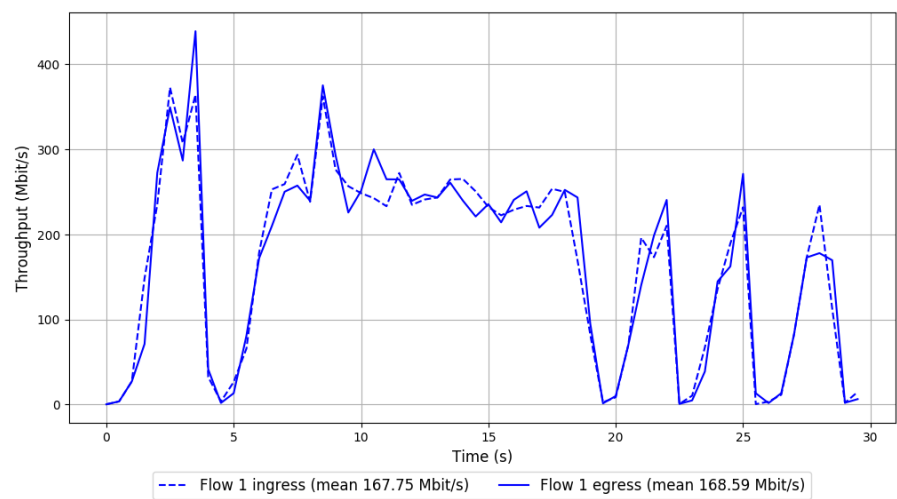
-- Flow 1:

Average throughput: 168.59 Mbit/s

95th percentile per-packet one-way delay: 106.513 ms

Loss rate: 0.09%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-30 06:18:33

End at: 2017-11-30 06:19:04

Below is generated by plot.py at 2017-11-30 09:21:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.02 Mbit/s

95th percentile per-packet one-way delay: 144.840 ms

Loss rate: 0.04%

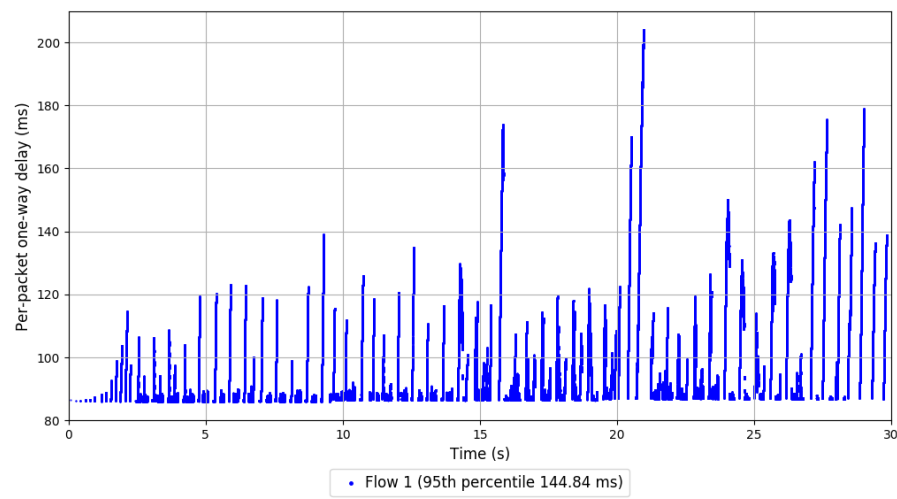
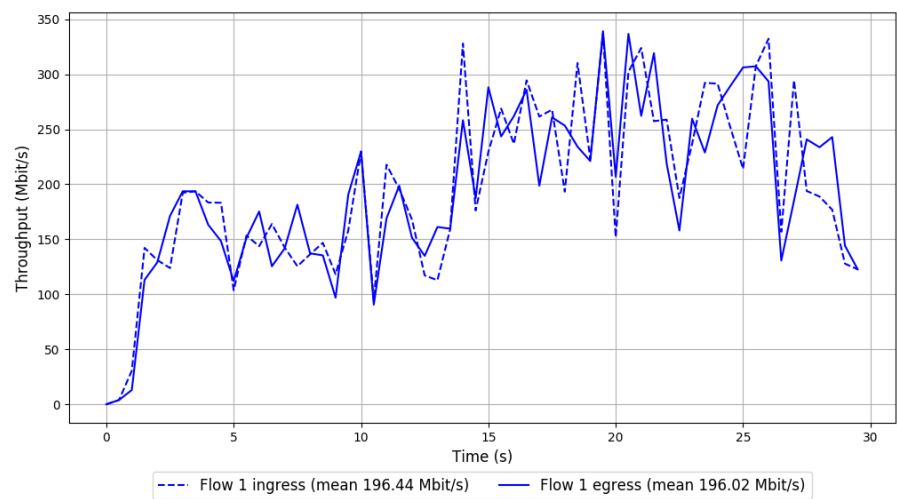
-- Flow 1:

Average throughput: 196.02 Mbit/s

95th percentile per-packet one-way delay: 144.840 ms

Loss rate: 0.04%

Run 6: Report of Verus — Data Link

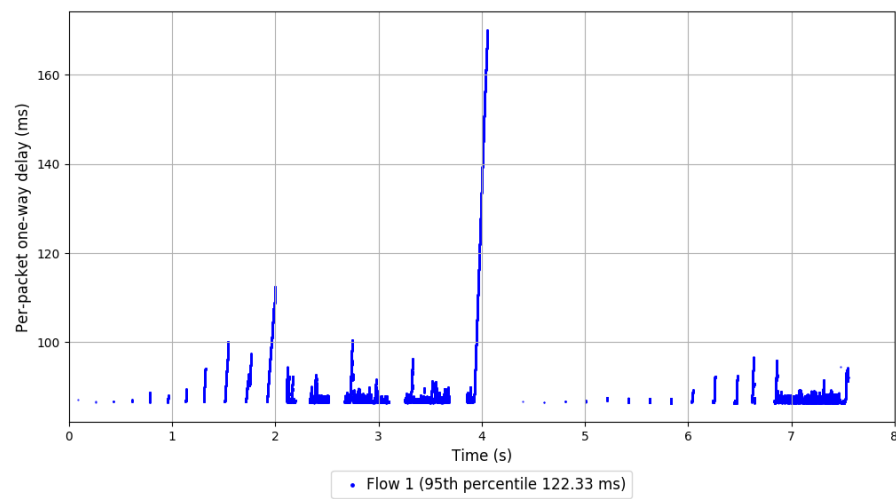
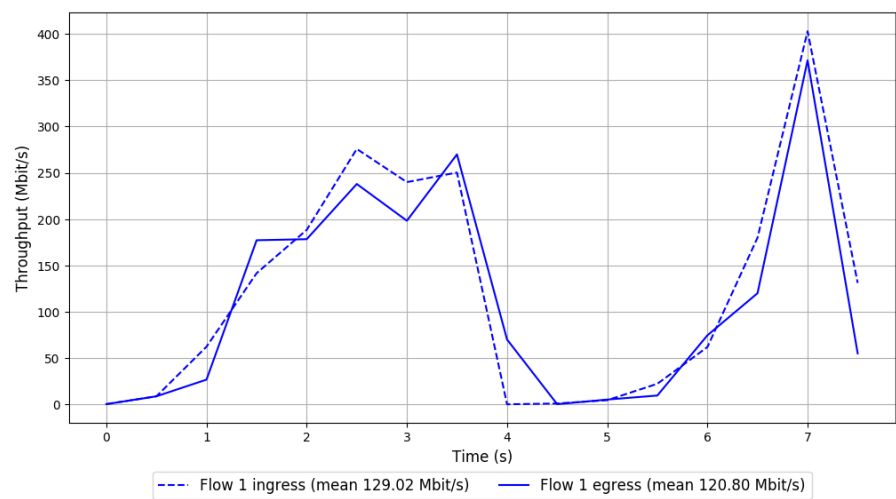


Run 7: Statistics of Verus

Start at: 2017-11-30 06:29:16

End at: 2017-11-30 06:29:46

Run 7: Report of Verus — Data Link

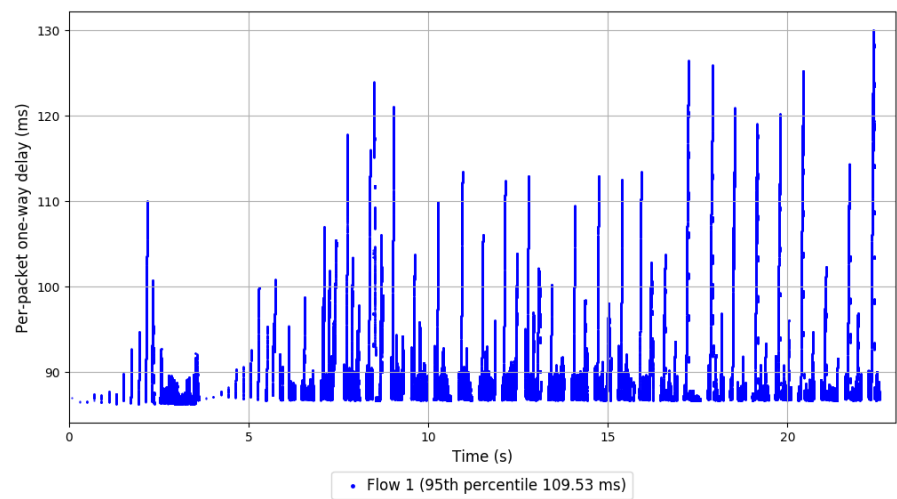
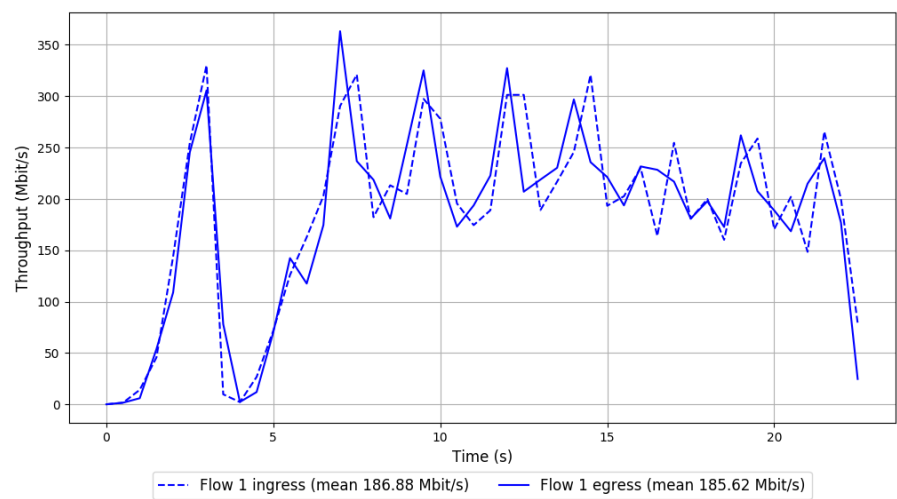


Run 8: Statistics of Verus

Start at: 2017-11-30 06:40:02

End at: 2017-11-30 06:40:32

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-30 06:50:55

End at: 2017-11-30 06:51:25

Below is generated by plot.py at 2017-11-30 09:22:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.45 Mbit/s

95th percentile per-packet one-way delay: 147.456 ms

Loss rate: 0.01%

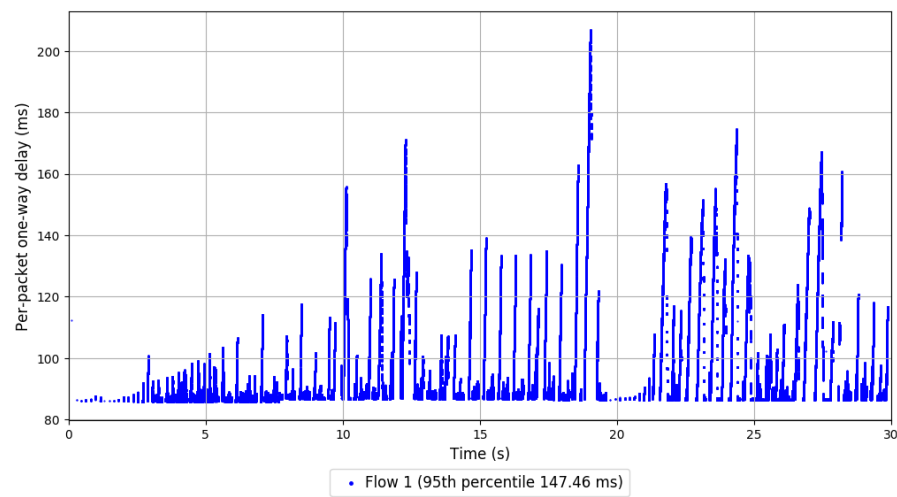
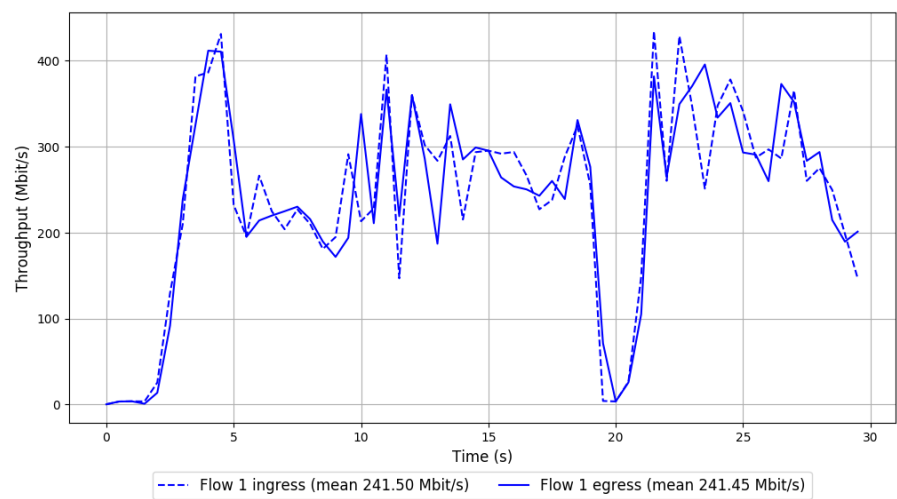
-- Flow 1:

Average throughput: 241.45 Mbit/s

95th percentile per-packet one-way delay: 147.456 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-30 07:01:55

End at: 2017-11-30 07:02:25

Below is generated by plot.py at 2017-11-30 09:22:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.57 Mbit/s

95th percentile per-packet one-way delay: 113.750 ms

Loss rate: 0.82%

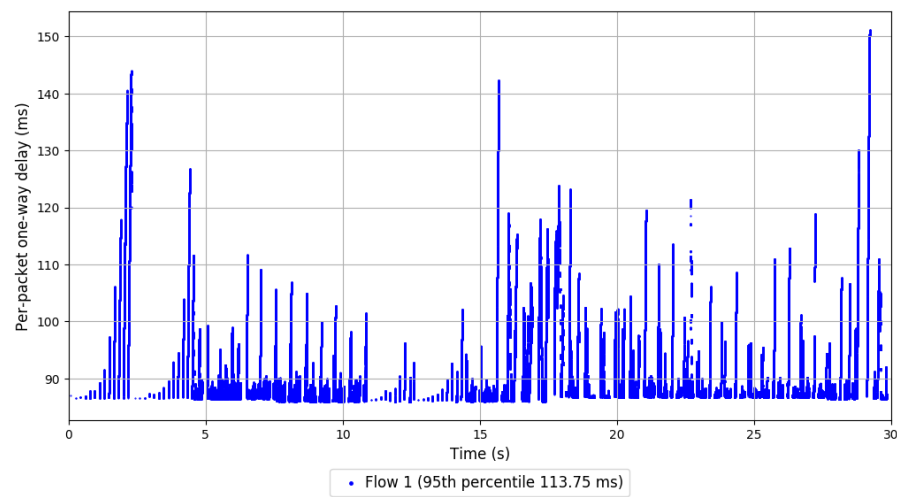
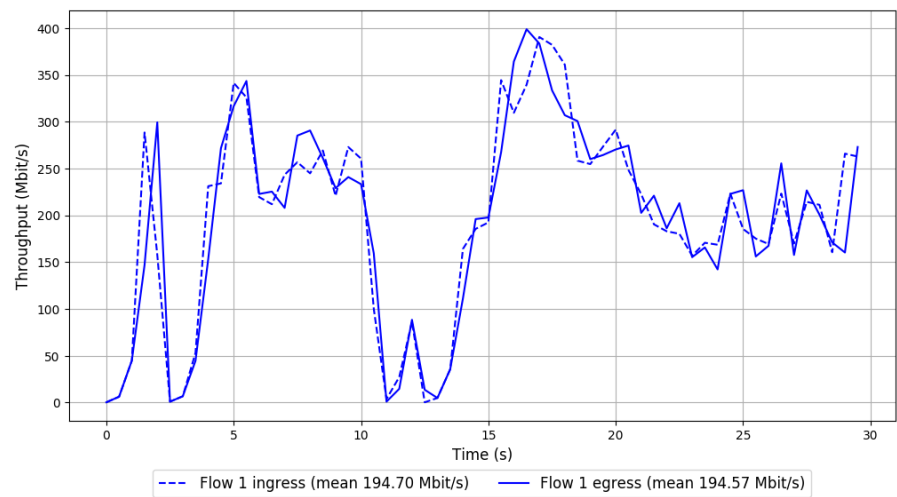
-- Flow 1:

Average throughput: 194.57 Mbit/s

95th percentile per-packet one-way delay: 113.750 ms

Loss rate: 0.82%

Run 10: Report of Verus — Data Link

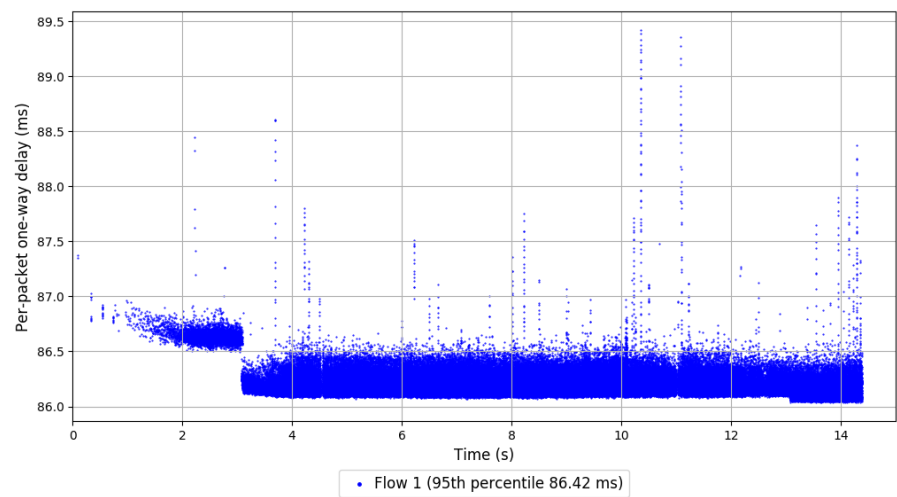
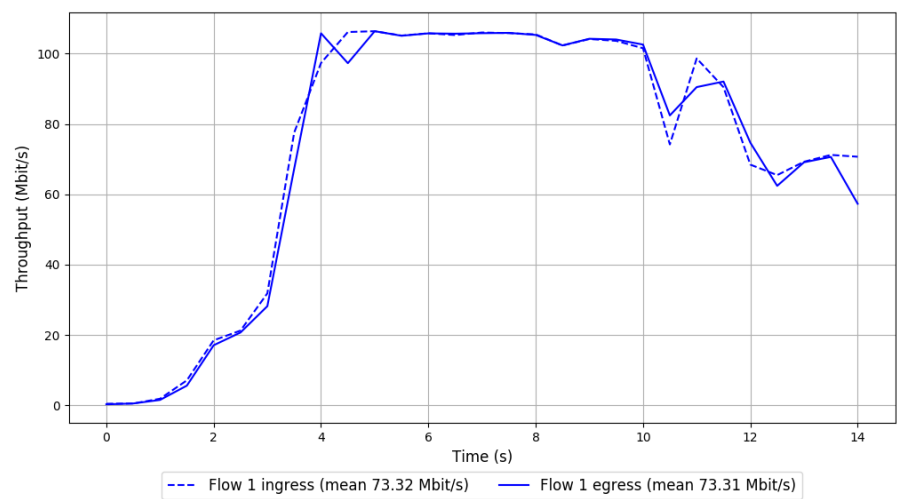


Run 1: Statistics of Copa

Start at: 2017-11-30 05:23:44

End at: 2017-11-30 05:24:14

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-30 05:34:02

End at: 2017-11-30 05:34:32

Below is generated by plot.py at 2017-11-30 09:22:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.27 Mbit/s

95th percentile per-packet one-way delay: 86.711 ms

Loss rate: 0.67%

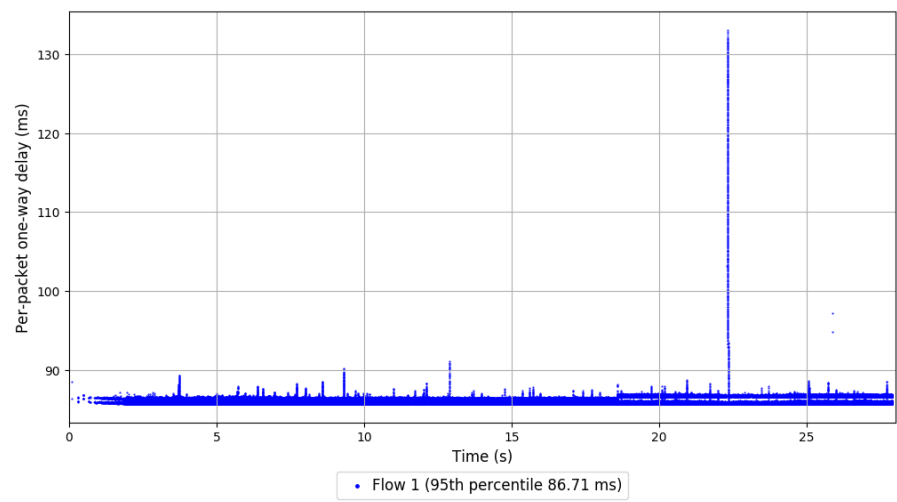
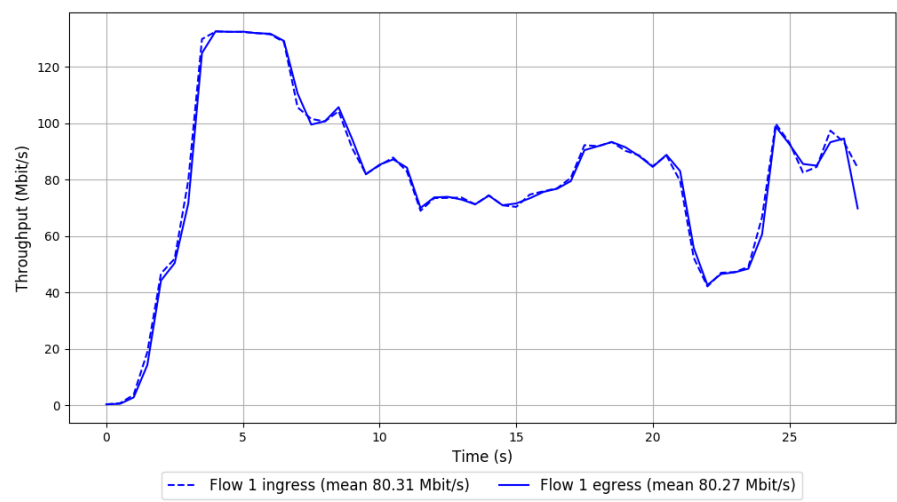
-- Flow 1:

Average throughput: 80.27 Mbit/s

95th percentile per-packet one-way delay: 86.711 ms

Loss rate: 0.67%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 05:45:04

End at: 2017-11-30 05:45:34

Below is generated by plot.py at 2017-11-30 09:22:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.02 Mbit/s

95th percentile per-packet one-way delay: 86.610 ms

Loss rate: 0.63%

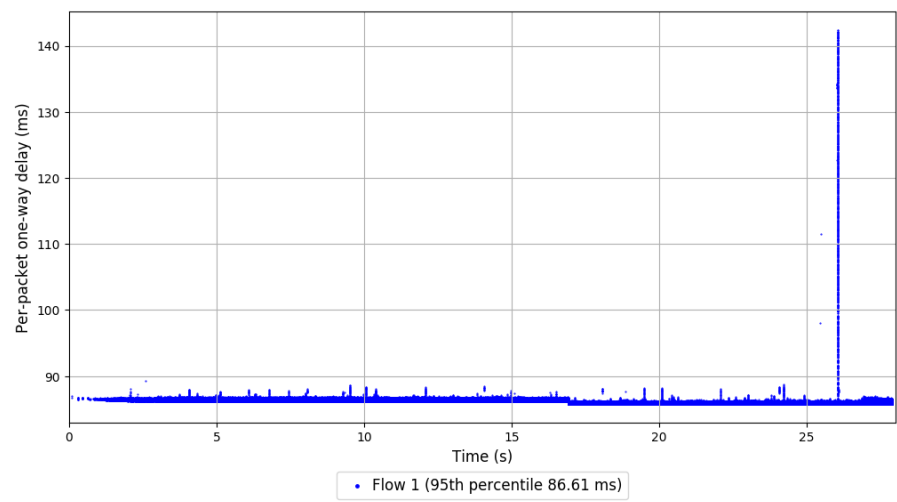
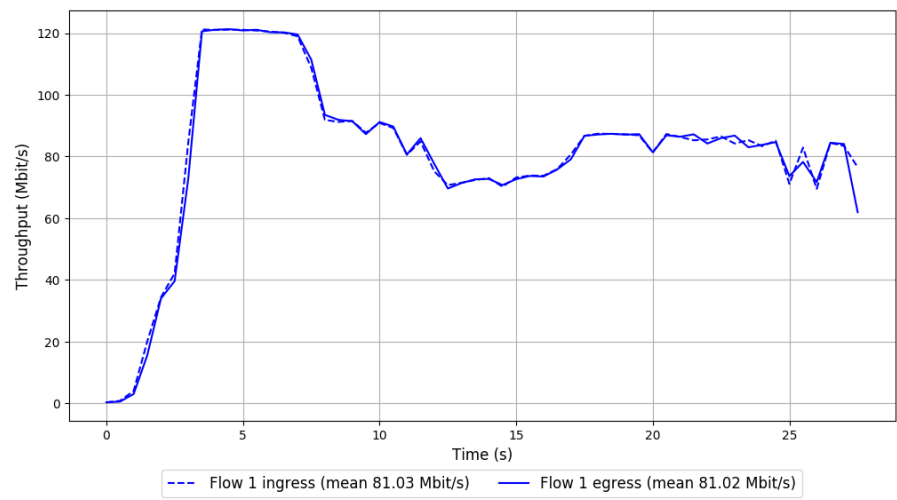
-- Flow 1:

Average throughput: 81.02 Mbit/s

95th percentile per-packet one-way delay: 86.610 ms

Loss rate: 0.63%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 05:55:52

End at: 2017-11-30 05:56:22

Below is generated by plot.py at 2017-11-30 09:22:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 86.752 ms

Loss rate: 0.38%

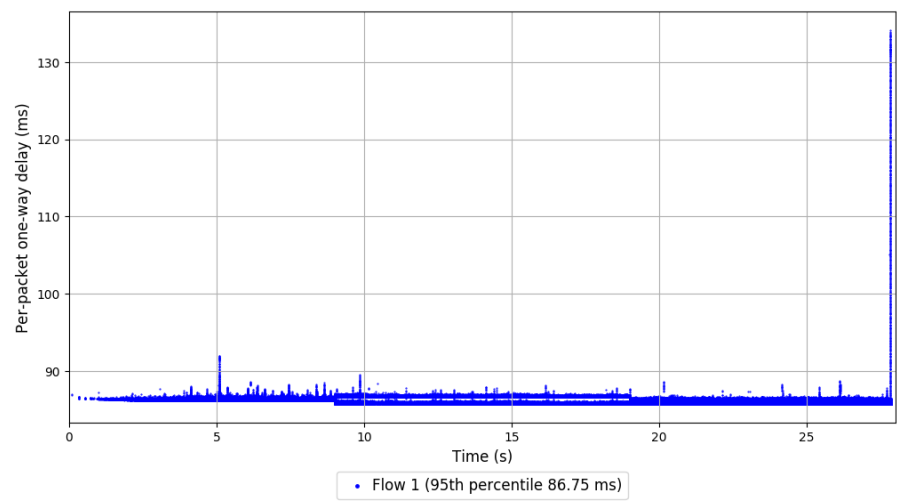
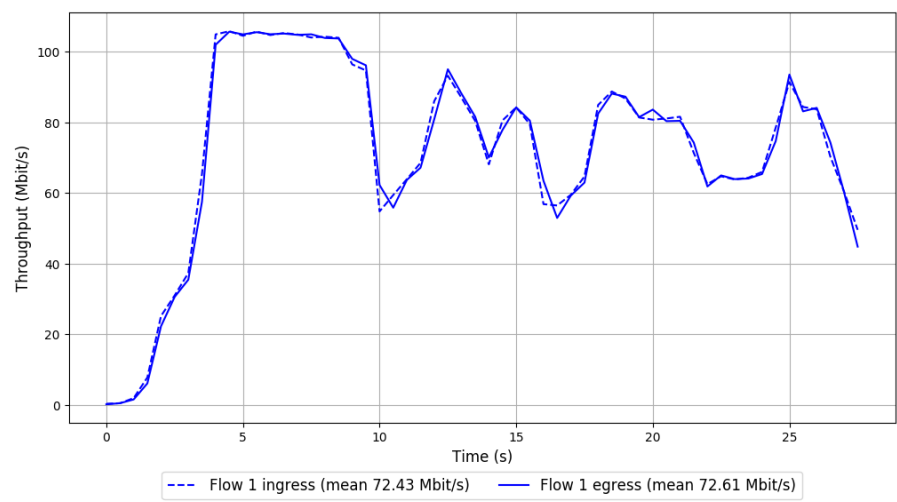
-- Flow 1:

Average throughput: 72.61 Mbit/s

95th percentile per-packet one-way delay: 86.752 ms

Loss rate: 0.38%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 06:06:55

End at: 2017-11-30 06:07:25

Below is generated by plot.py at 2017-11-30 09:22:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.76 Mbit/s

95th percentile per-packet one-way delay: 87.005 ms

Loss rate: 0.65%

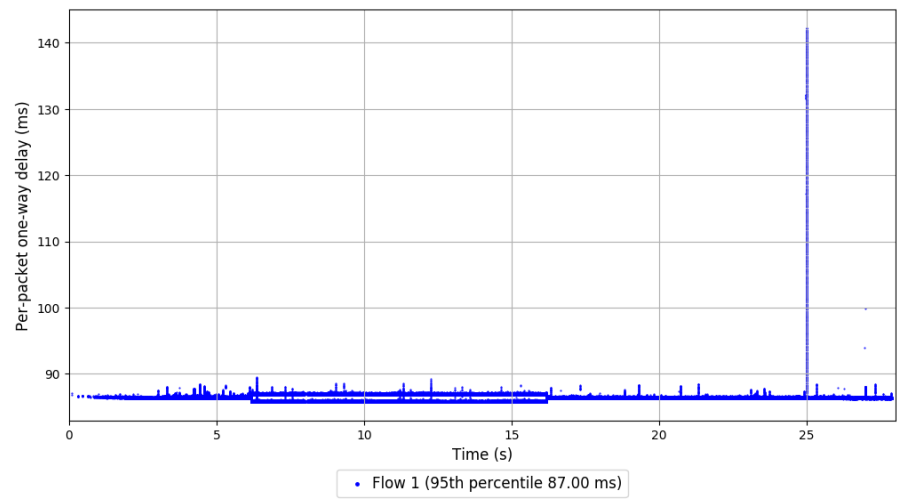
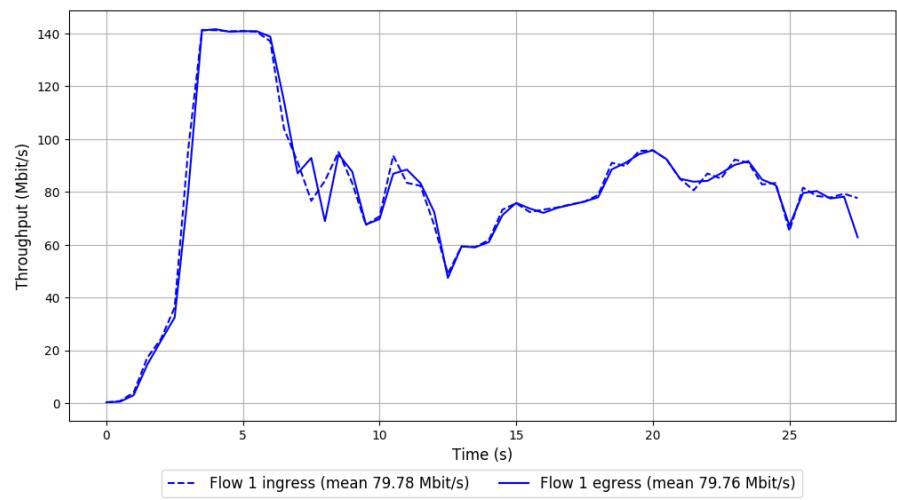
-- Flow 1:

Average throughput: 79.76 Mbit/s

95th percentile per-packet one-way delay: 87.005 ms

Loss rate: 0.65%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 06:17:48

End at: 2017-11-30 06:18:18

Below is generated by plot.py at 2017-11-30 09:22:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.71 Mbit/s

95th percentile per-packet one-way delay: 86.656 ms

Loss rate: 0.73%

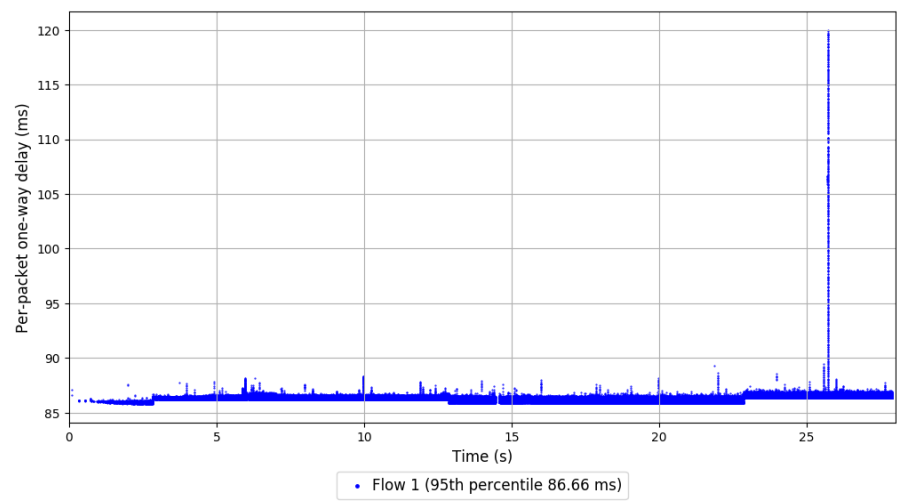
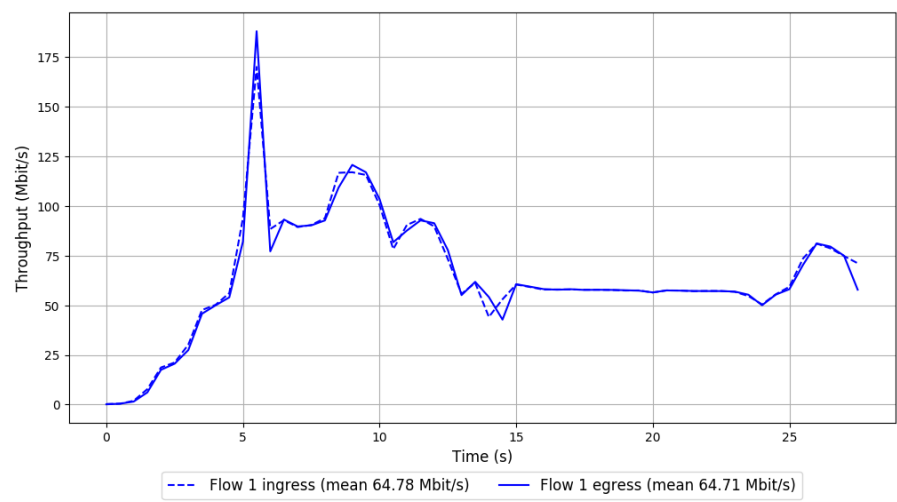
-- Flow 1:

Average throughput: 64.71 Mbit/s

95th percentile per-packet one-way delay: 86.656 ms

Loss rate: 0.73%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-30 06:28:30

End at: 2017-11-30 06:29:00

Below is generated by plot.py at 2017-11-30 09:23:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.01 Mbit/s

95th percentile per-packet one-way delay: 86.660 ms

Loss rate: 0.66%

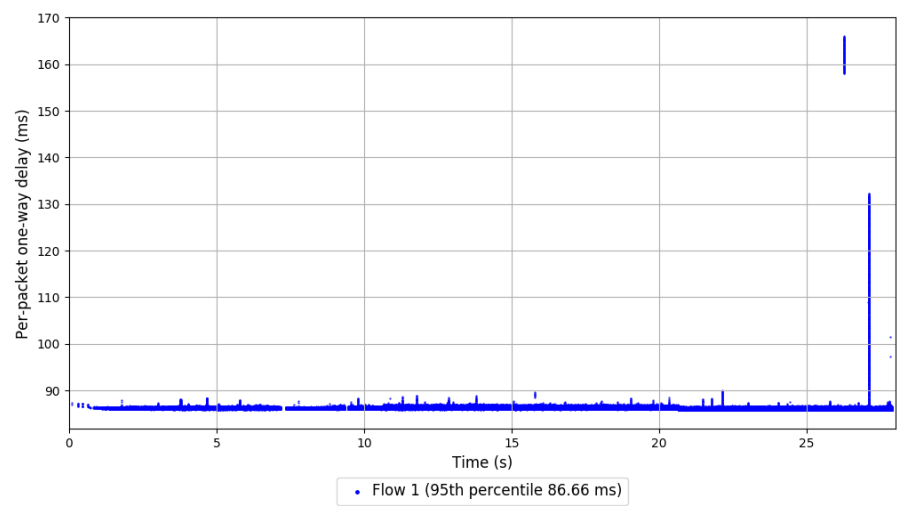
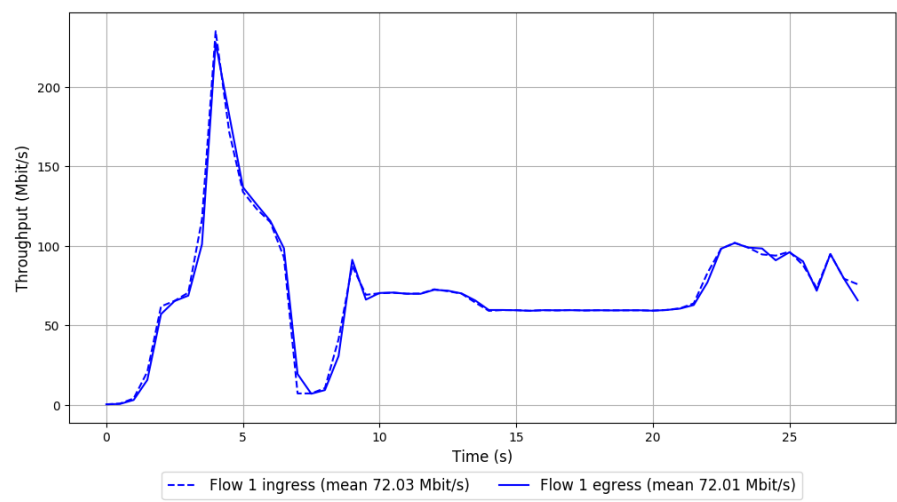
-- Flow 1:

Average throughput: 72.01 Mbit/s

95th percentile per-packet one-way delay: 86.660 ms

Loss rate: 0.66%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-30 06:39:17

End at: 2017-11-30 06:39:47

Below is generated by plot.py at 2017-11-30 09:23:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 86.779 ms

Loss rate: 0.66%

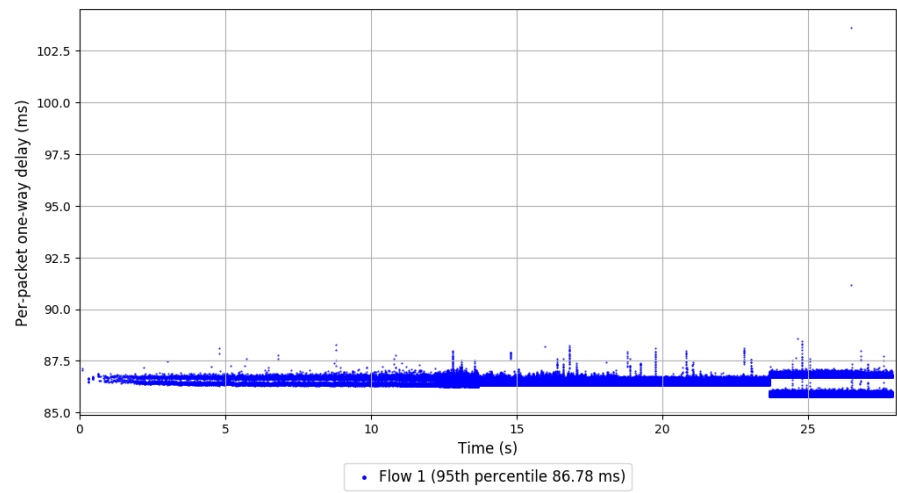
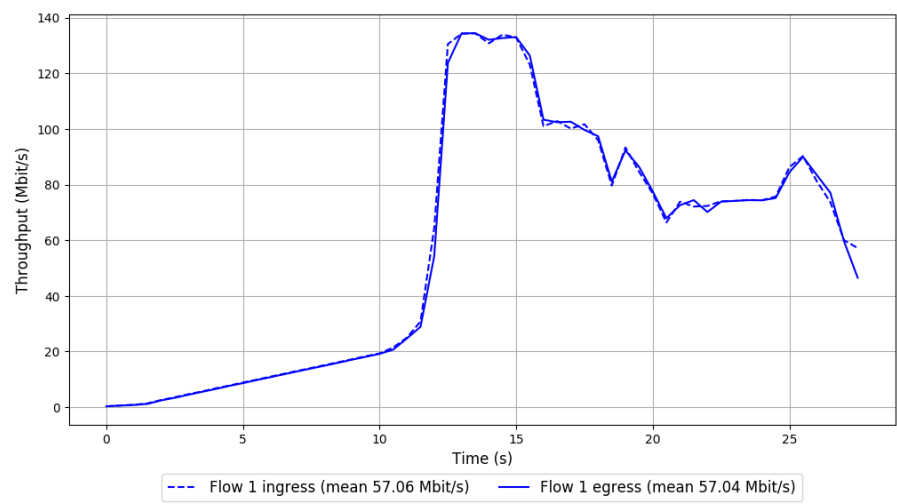
-- Flow 1:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 86.779 ms

Loss rate: 0.66%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-30 06:50:09

End at: 2017-11-30 06:50:39

Below is generated by plot.py at 2017-11-30 09:23:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 86.792 ms

Loss rate: 0.51%

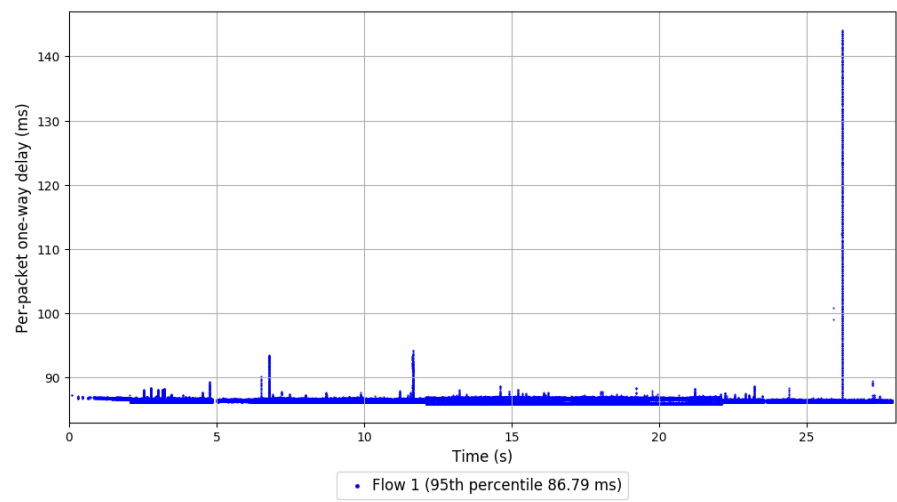
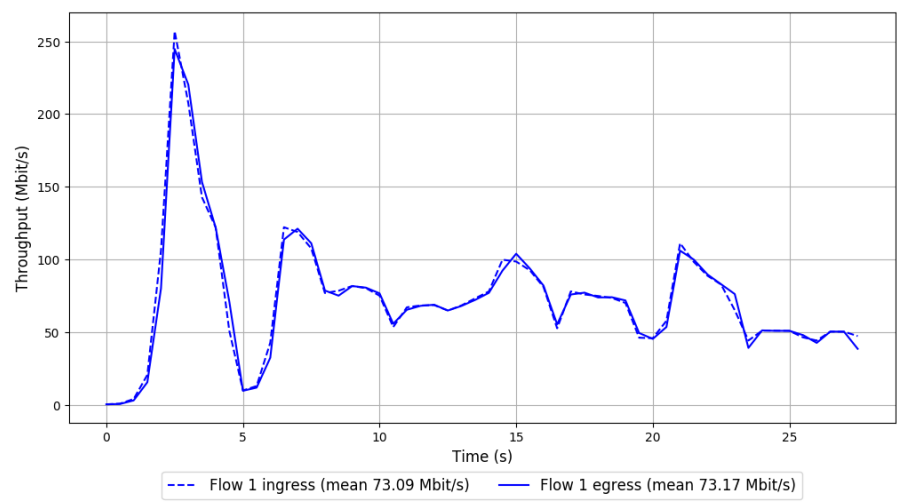
-- Flow 1:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 86.792 ms

Loss rate: 0.51%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-30 07:01:09

End at: 2017-11-30 07:01:39

Below is generated by plot.py at 2017-11-30 09:23:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 86.607 ms

Loss rate: 0.58%

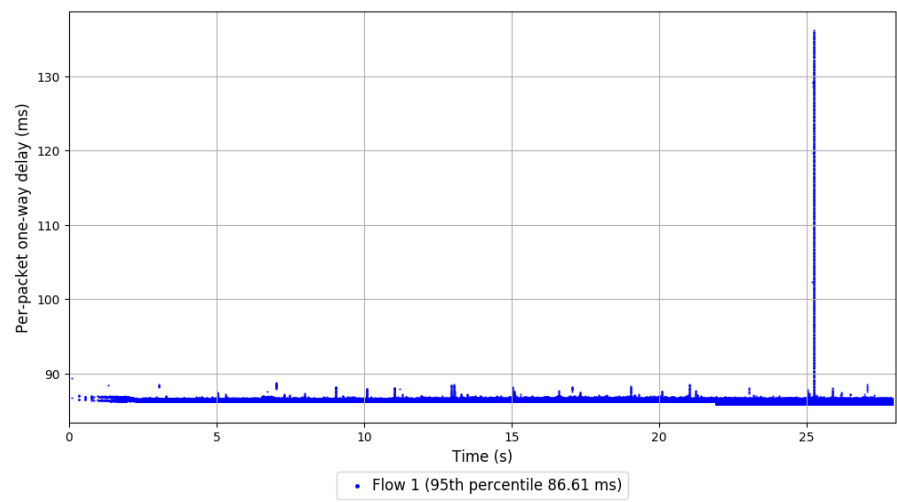
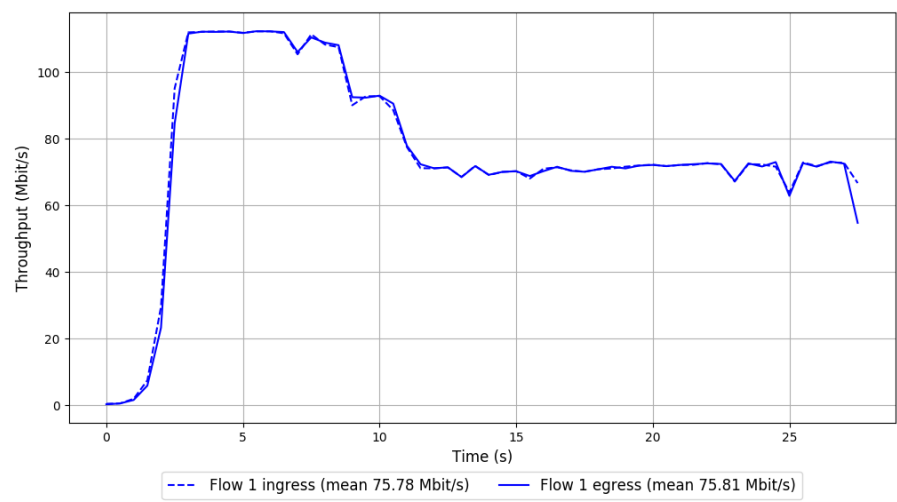
-- Flow 1:

Average throughput: 75.81 Mbit/s

95th percentile per-packet one-way delay: 86.607 ms

Loss rate: 0.58%

Run 10: Report of Copa — Data Link

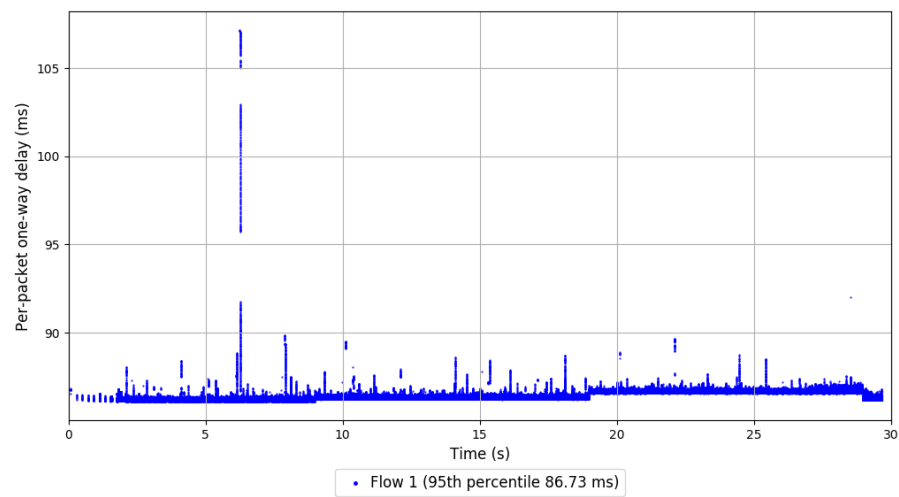
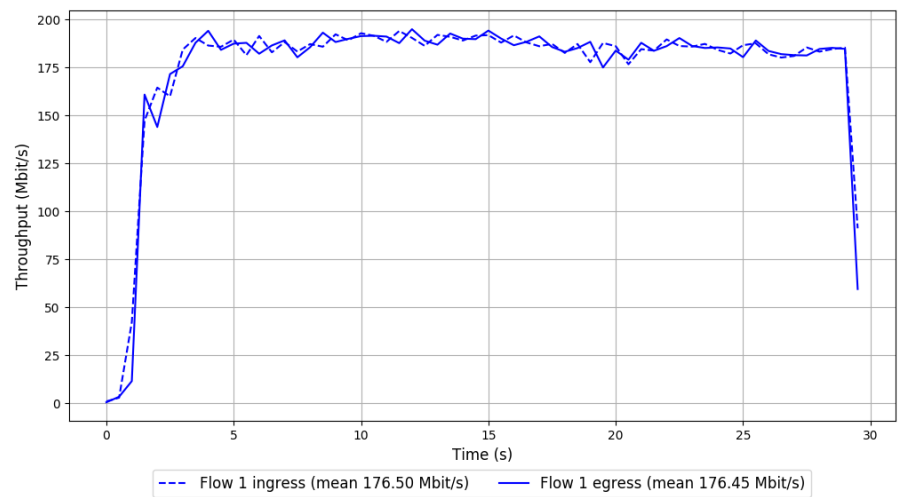


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 05:21:34
End at: 2017-11-30 05:22:04

# Below is generated by plot.py at 2017-11-30 09:24:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.45 Mbit/s
95th percentile per-packet one-way delay: 86.734 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 176.45 Mbit/s
95th percentile per-packet one-way delay: 86.734 ms
Loss rate: 0.61%
```

Run 1: Report of Indigo — Data Link

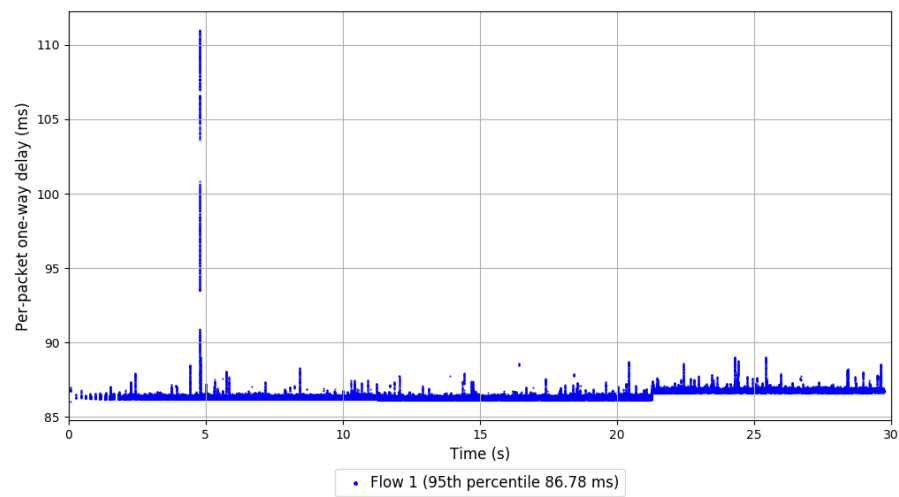
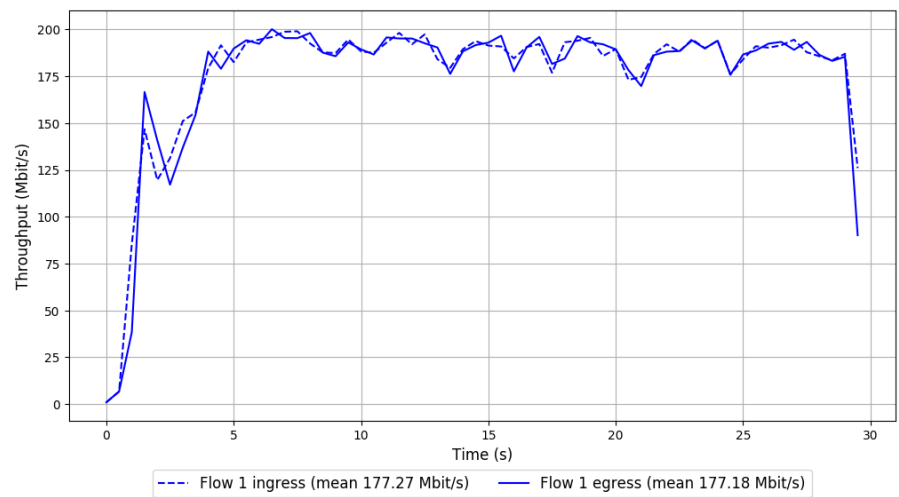


```
Run 2: Statistics of Indigo

Start at: 2017-11-30 05:31:52
End at: 2017-11-30 05:32:22

# Below is generated by plot.py at 2017-11-30 09:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.18 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 177.18 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 0.64%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 05:42:53

End at: 2017-11-30 05:43:23

Below is generated by plot.py at 2017-11-30 09:25:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.01 Mbit/s

95th percentile per-packet one-way delay: 86.539 ms

Loss rate: 0.61%

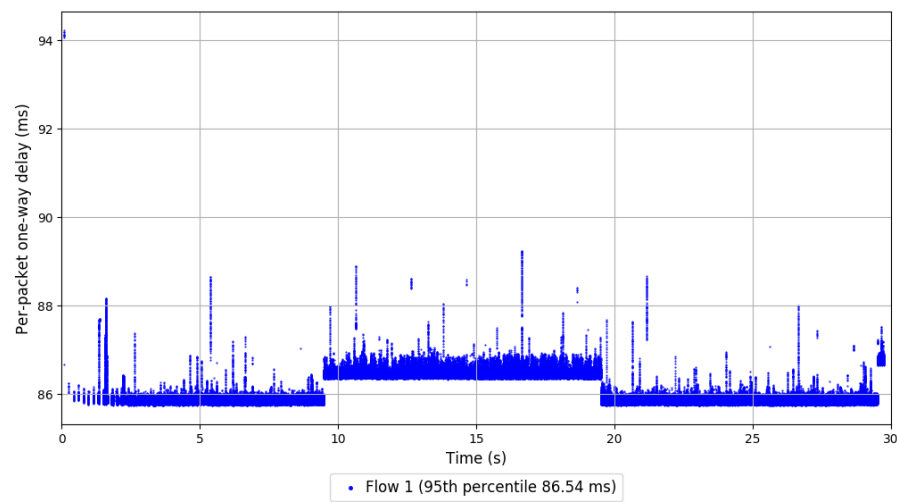
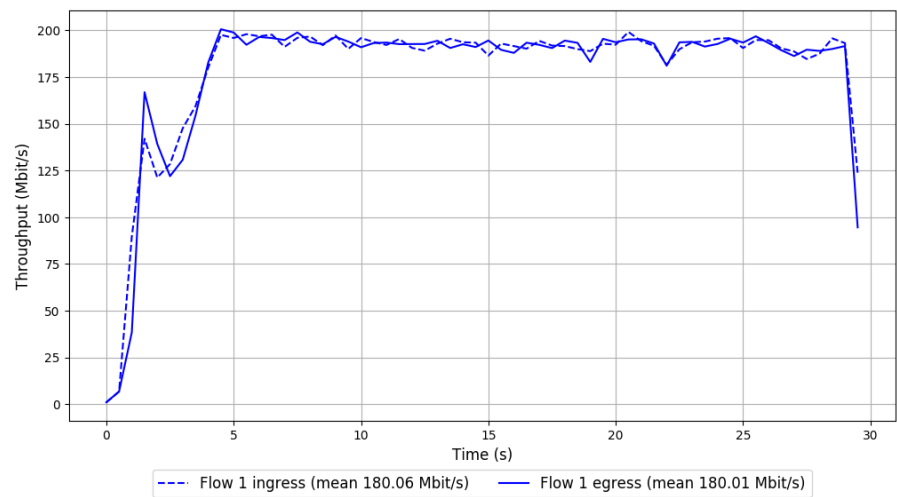
-- Flow 1:

Average throughput: 180.01 Mbit/s

95th percentile per-packet one-way delay: 86.539 ms

Loss rate: 0.61%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 05:53:41

End at: 2017-11-30 05:54:11

Below is generated by plot.py at 2017-11-30 09:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.79 Mbit/s

95th percentile per-packet one-way delay: 86.567 ms

Loss rate: 0.60%

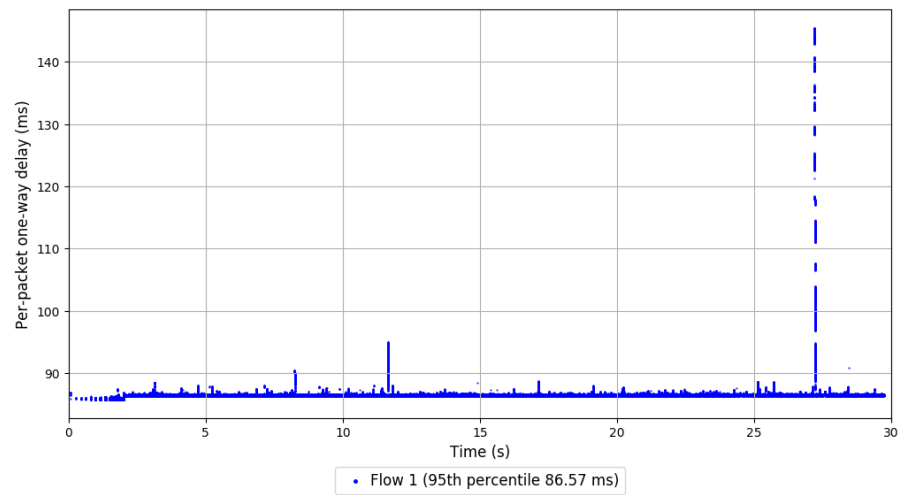
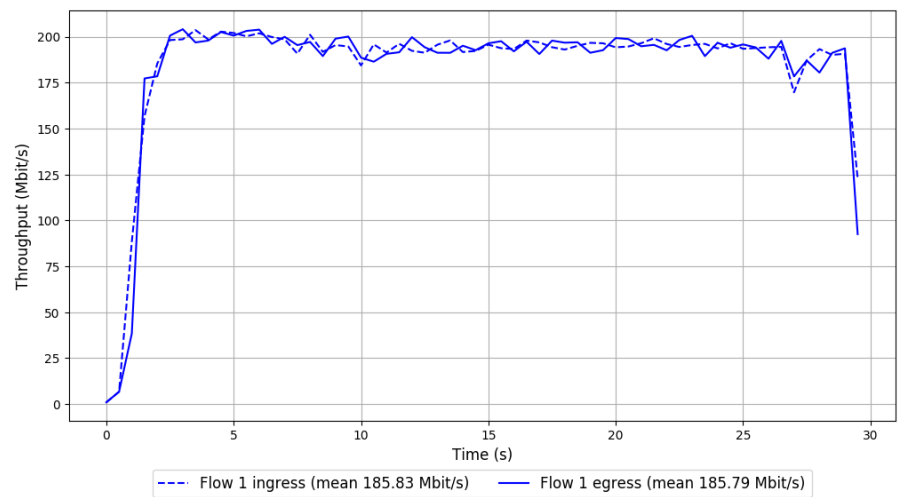
-- Flow 1:

Average throughput: 185.79 Mbit/s

95th percentile per-packet one-way delay: 86.567 ms

Loss rate: 0.60%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-30 06:04:44

End at: 2017-11-30 06:05:14

Below is generated by plot.py at 2017-11-30 09:25:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.66 Mbit/s

95th percentile per-packet one-way delay: 86.656 ms

Loss rate: 0.59%

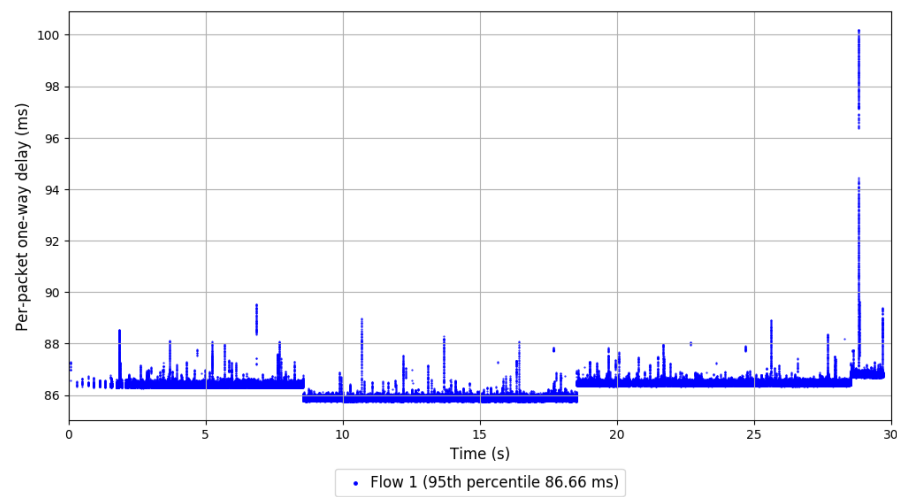
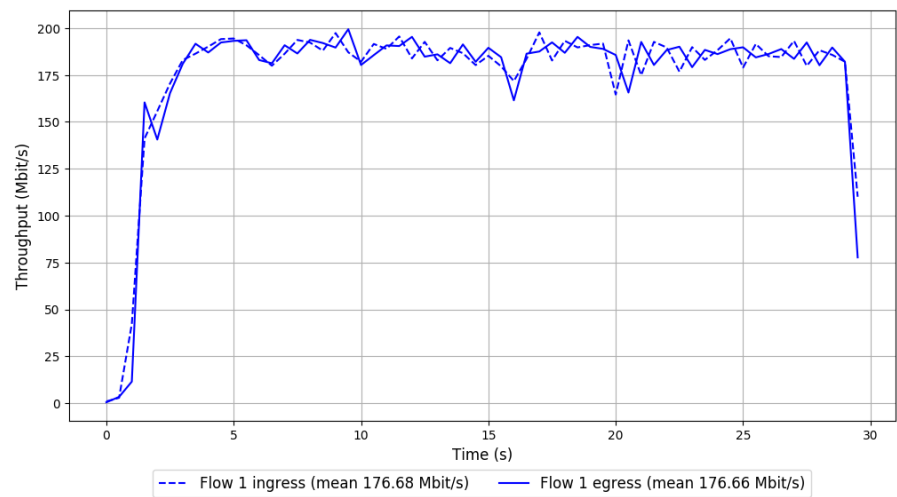
-- Flow 1:

Average throughput: 176.66 Mbit/s

95th percentile per-packet one-way delay: 86.656 ms

Loss rate: 0.59%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 06:15:37

End at: 2017-11-30 06:16:07

Below is generated by plot.py at 2017-11-30 09:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.03 Mbit/s

95th percentile per-packet one-way delay: 86.310 ms

Loss rate: 0.60%

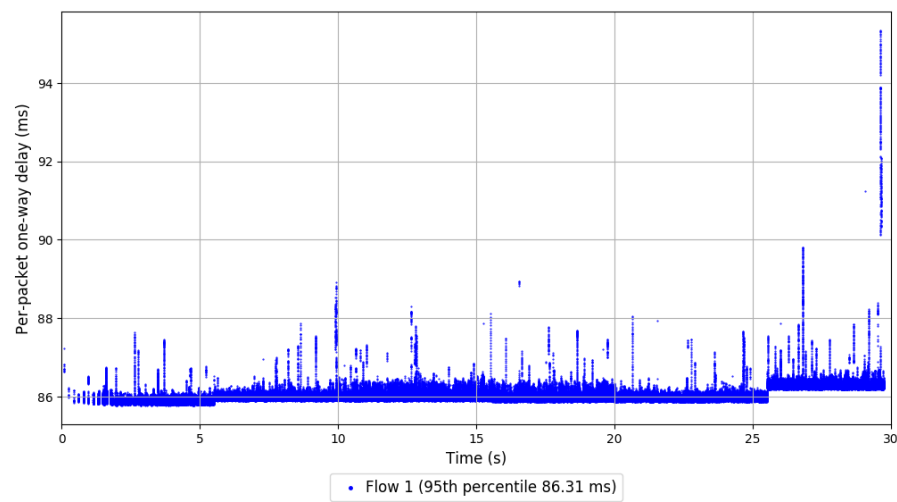
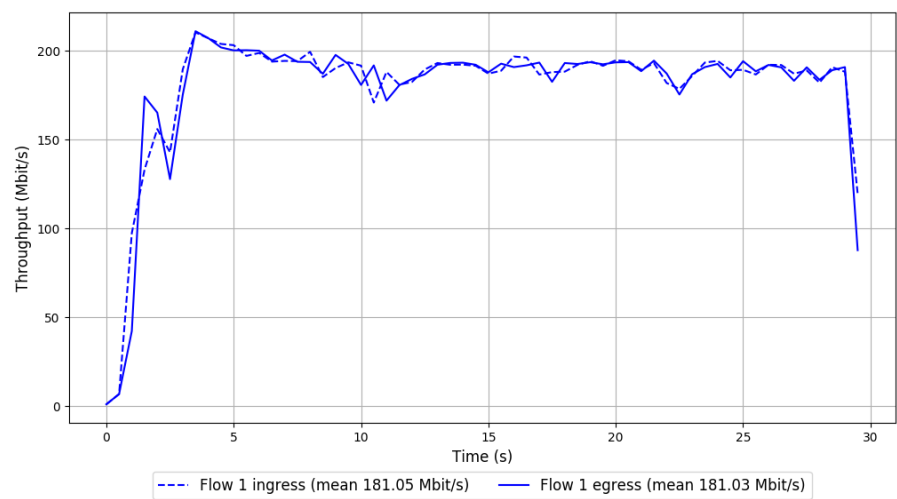
-- Flow 1:

Average throughput: 181.03 Mbit/s

95th percentile per-packet one-way delay: 86.310 ms

Loss rate: 0.60%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 06:26:20

End at: 2017-11-30 06:26:50

Below is generated by plot.py at 2017-11-30 09:26:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.62 Mbit/s

95th percentile per-packet one-way delay: 86.683 ms

Loss rate: 0.62%

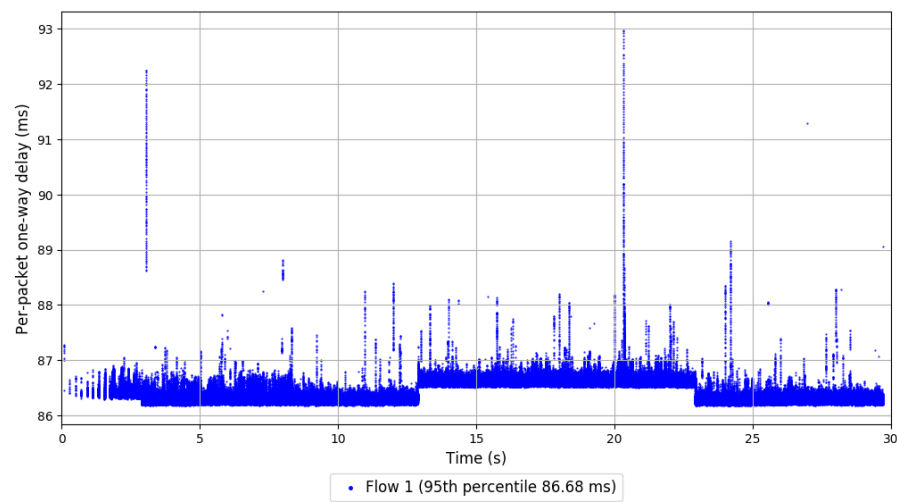
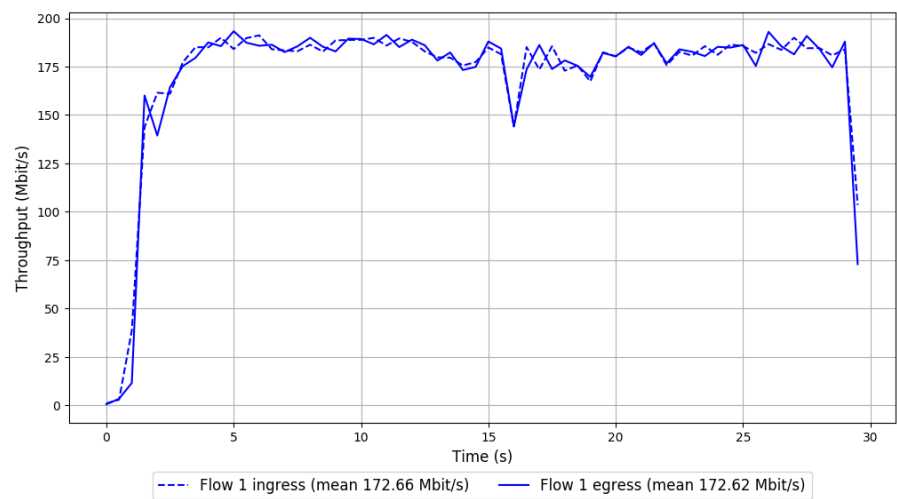
-- Flow 1:

Average throughput: 172.62 Mbit/s

95th percentile per-packet one-way delay: 86.683 ms

Loss rate: 0.62%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-30 06:37:07

End at: 2017-11-30 06:37:37

Below is generated by plot.py at 2017-11-30 09:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.09 Mbit/s

95th percentile per-packet one-way delay: 86.788 ms

Loss rate: 0.62%

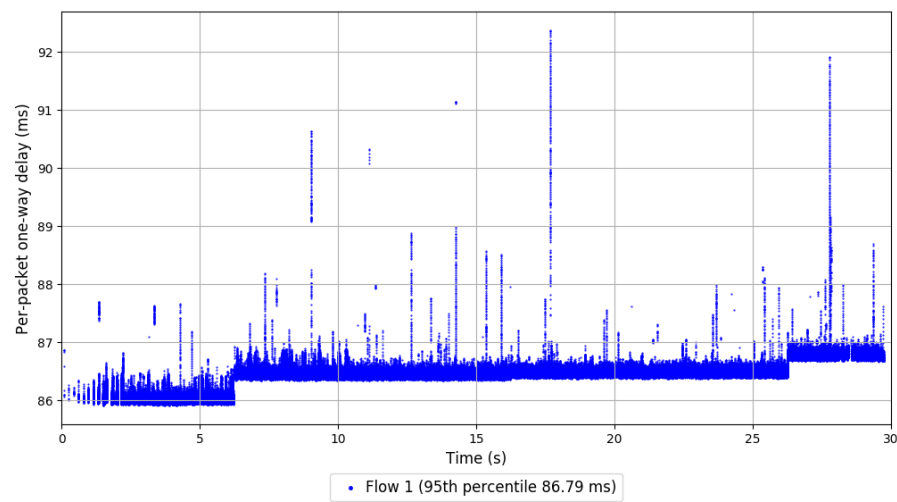
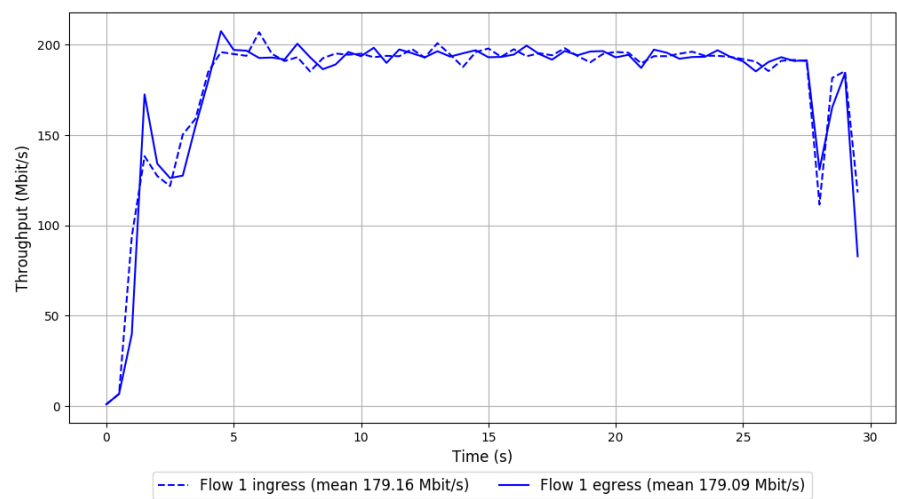
-- Flow 1:

Average throughput: 179.09 Mbit/s

95th percentile per-packet one-way delay: 86.788 ms

Loss rate: 0.62%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-30 06:47:58

End at: 2017-11-30 06:48:28

Below is generated by plot.py at 2017-11-30 09:27:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.96 Mbit/s

95th percentile per-packet one-way delay: 86.483 ms

Loss rate: 0.60%

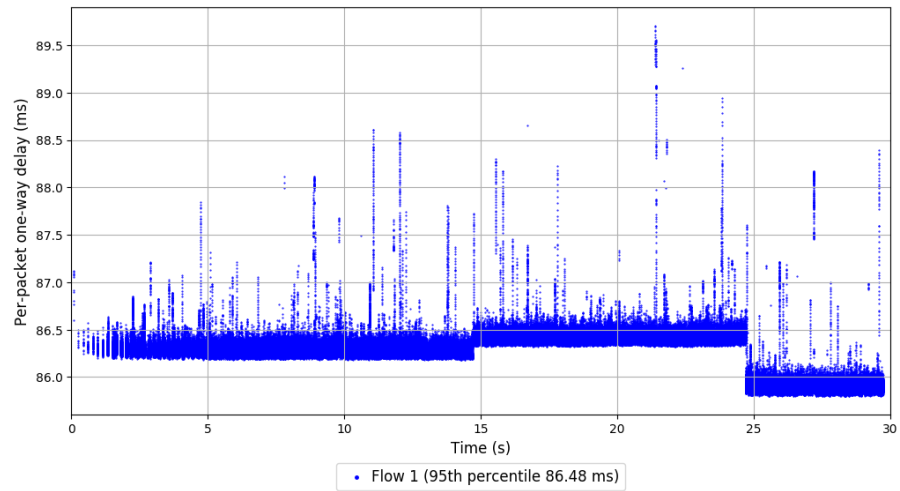
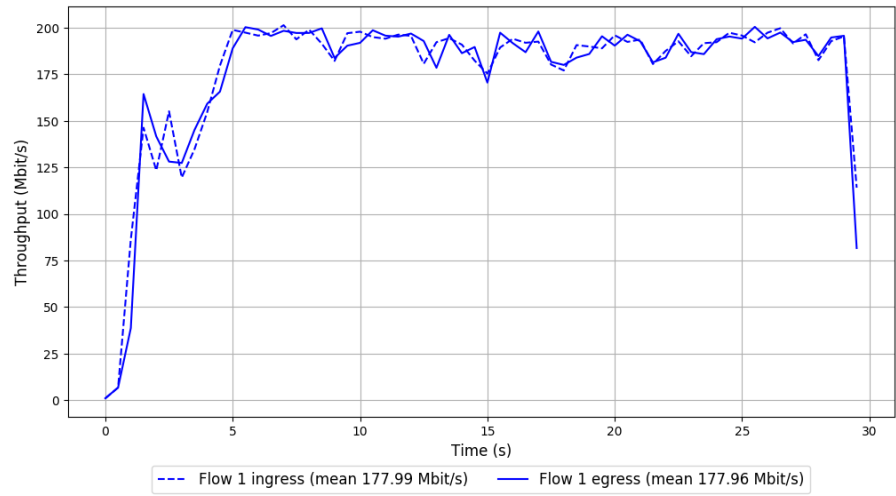
-- Flow 1:

Average throughput: 177.96 Mbit/s

95th percentile per-packet one-way delay: 86.483 ms

Loss rate: 0.60%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-30 06:58:58

End at: 2017-11-30 06:59:28

Below is generated by plot.py at 2017-11-30 09:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.39 Mbit/s

95th percentile per-packet one-way delay: 86.420 ms

Loss rate: 0.63%

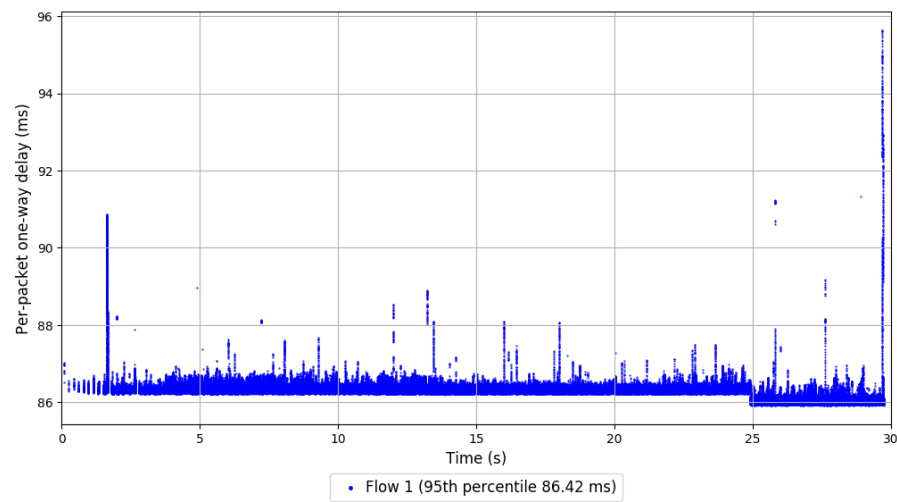
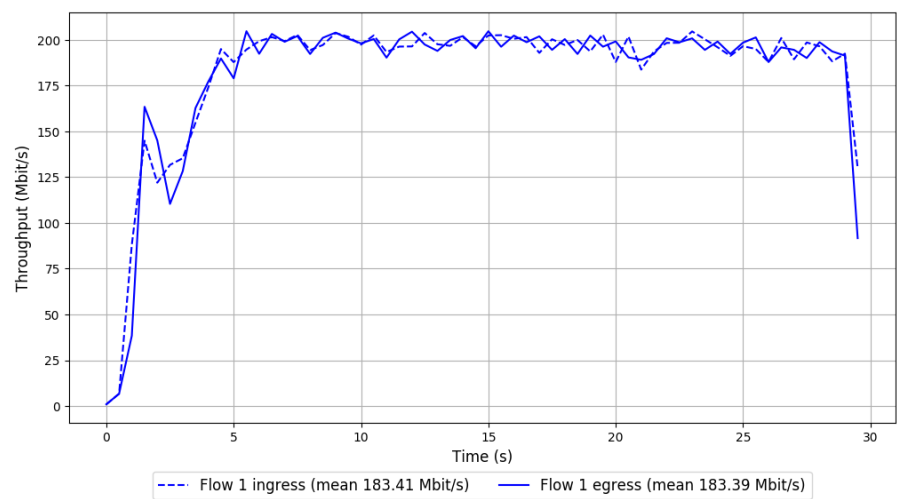
-- Flow 1:

Average throughput: 183.39 Mbit/s

95th percentile per-packet one-way delay: 86.420 ms

Loss rate: 0.63%

Run 10: Report of Indigo — Data Link

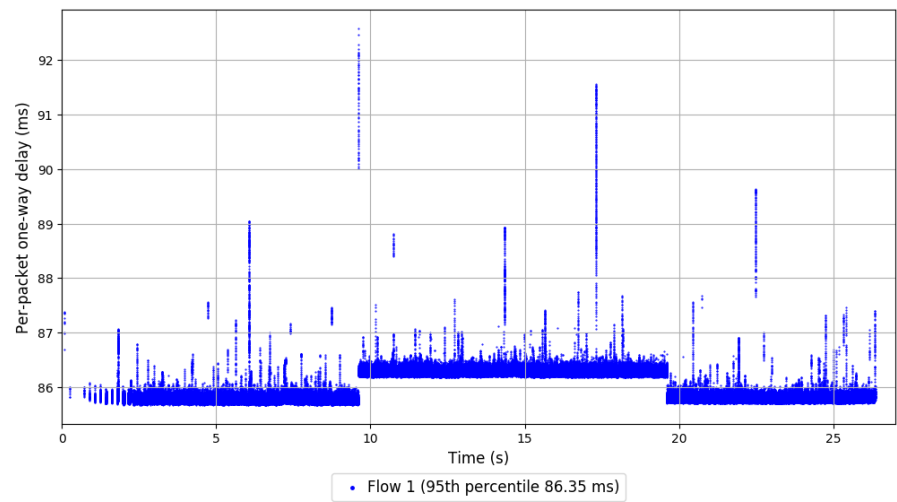
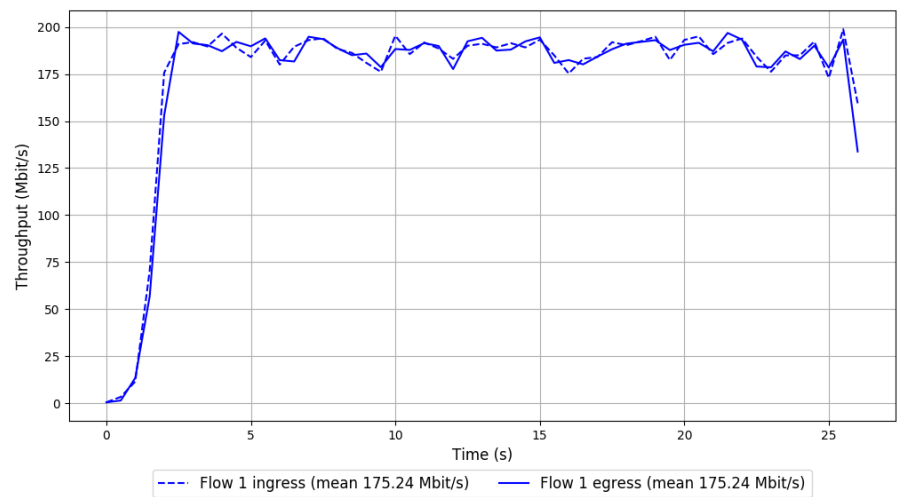


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 05:18:00
End at: 2017-11-30 05:18:30

# Below is generated by plot.py at 2017-11-30 09:28:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.24 Mbit/s
95th percentile per-packet one-way delay: 86.352 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 175.24 Mbit/s
95th percentile per-packet one-way delay: 86.352 ms
Loss rate: 0.66%
```

Run 1: Report of Indigo-calib — Data Link

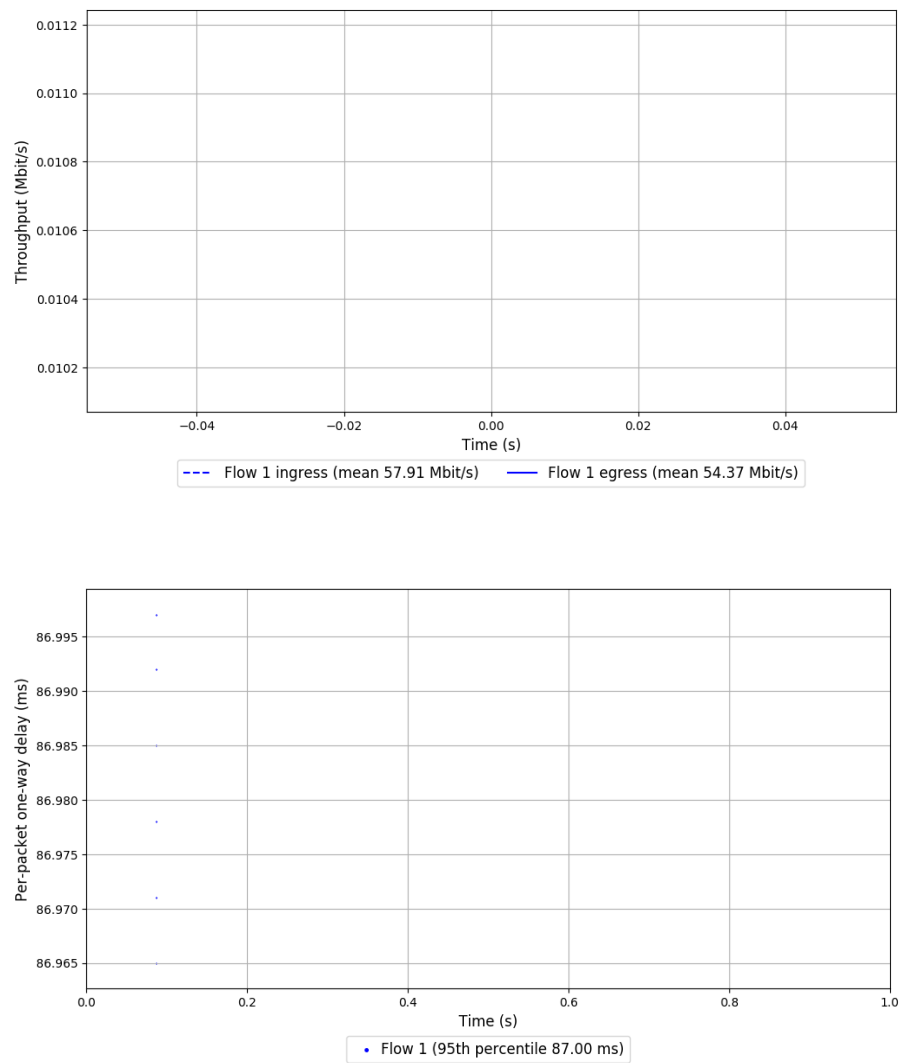


Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 05:28:26

End at: 2017-11-30 05:28:56

Run 2: Report of Indigo-calib — Data Link

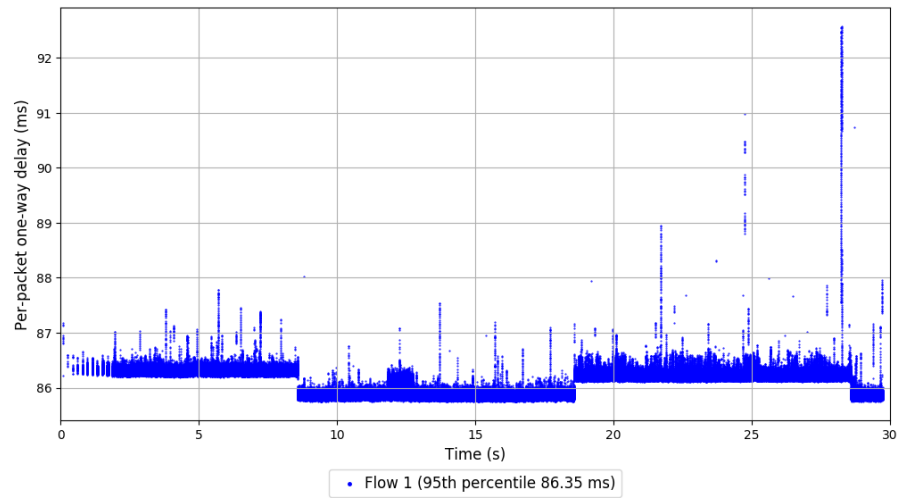
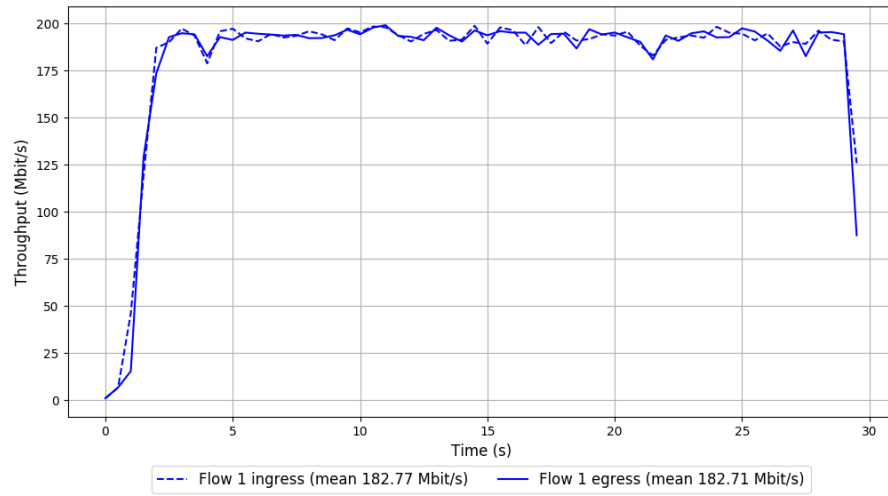


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 05:39:14
End at: 2017-11-30 05:39:44

# Below is generated by plot.py at 2017-11-30 09:28:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.71 Mbit/s
95th percentile per-packet one-way delay: 86.354 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 182.71 Mbit/s
95th percentile per-packet one-way delay: 86.354 ms
Loss rate: 0.61%
```

Run 3: Report of Indigo-calib — Data Link

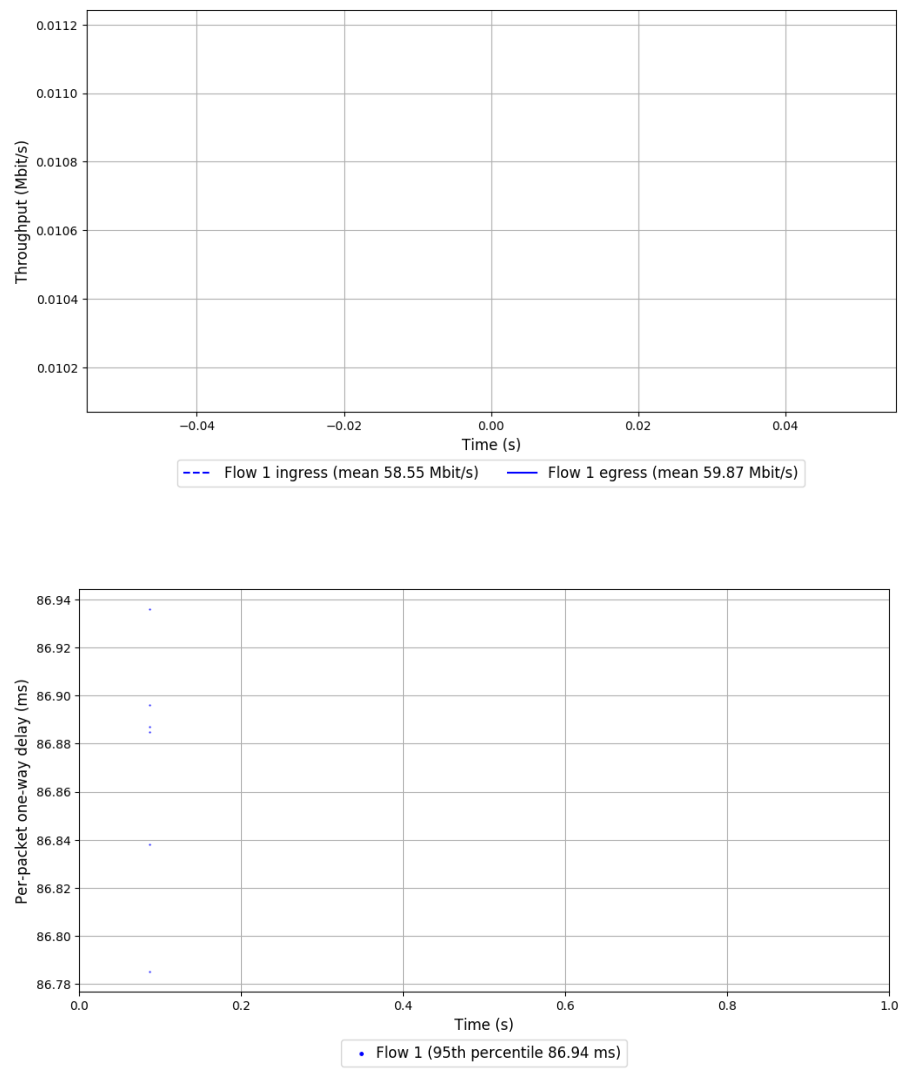


Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 05:50:15

End at: 2017-11-30 05:50:45

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 06:01:05

End at: 2017-11-30 06:01:35

Below is generated by plot.py at 2017-11-30 09:28:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.67 Mbit/s

95th percentile per-packet one-way delay: 86.422 ms

Loss rate: 0.61%

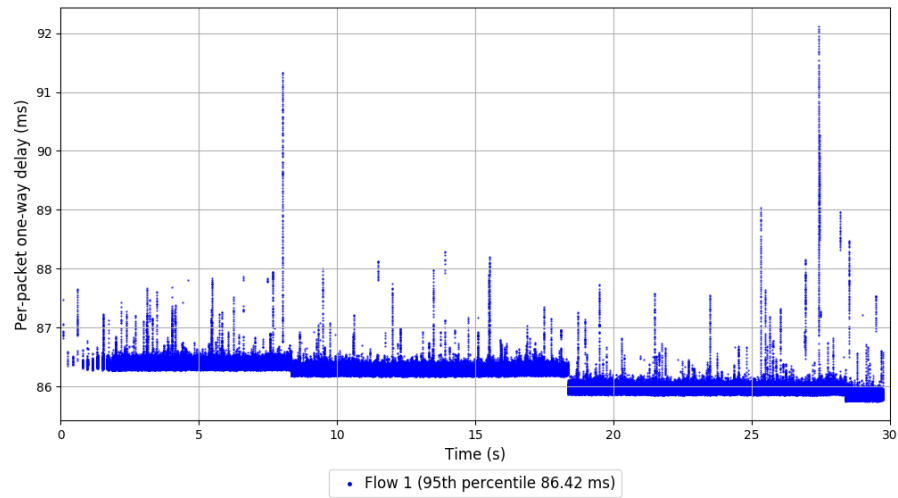
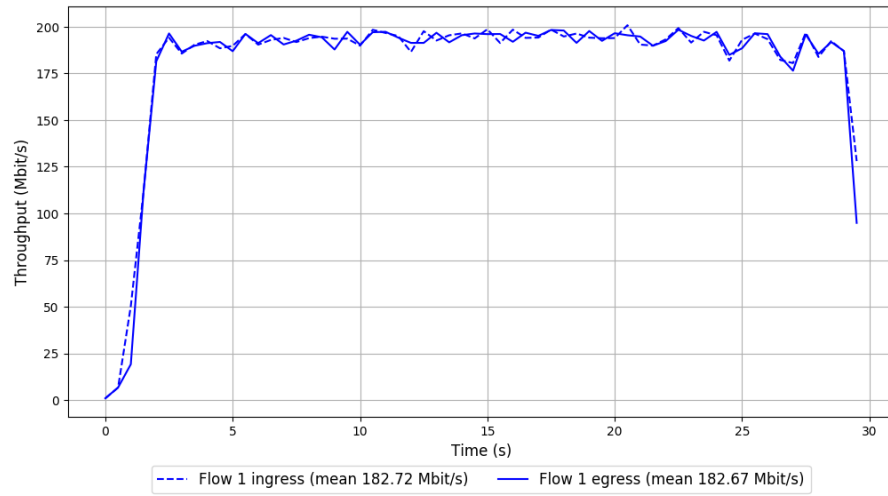
-- Flow 1:

Average throughput: 182.67 Mbit/s

95th percentile per-packet one-way delay: 86.422 ms

Loss rate: 0.61%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 06:12:04

End at: 2017-11-30 06:12:34

Below is generated by plot.py at 2017-11-30 09:28:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.98 Mbit/s

95th percentile per-packet one-way delay: 86.817 ms

Loss rate: 0.63%

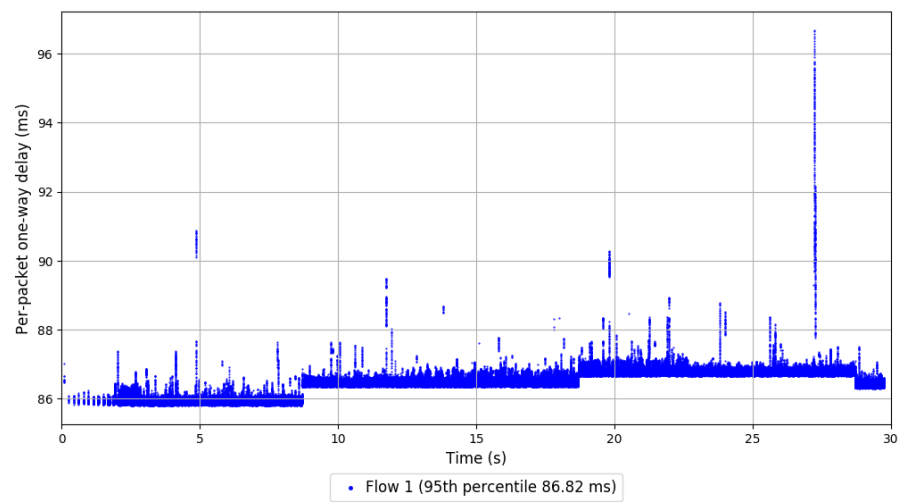
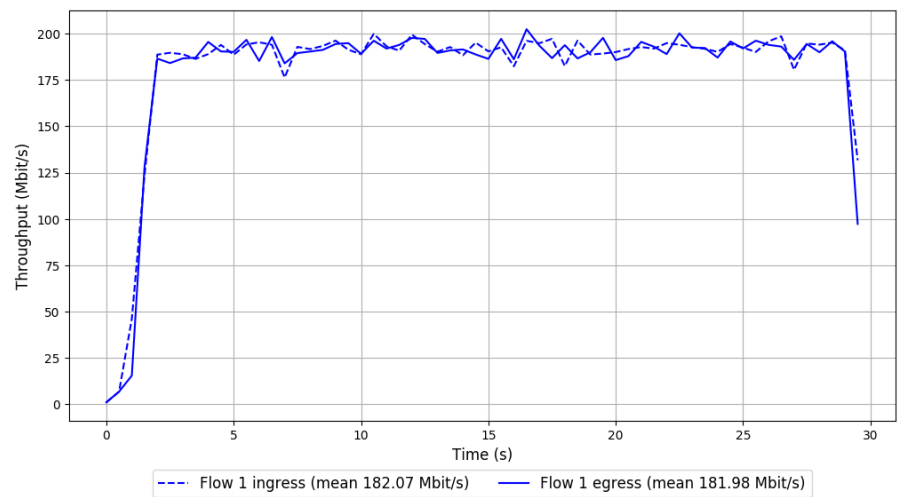
-- Flow 1:

Average throughput: 181.98 Mbit/s

95th percentile per-packet one-way delay: 86.817 ms

Loss rate: 0.63%

Run 6: Report of Indigo-calib — Data Link

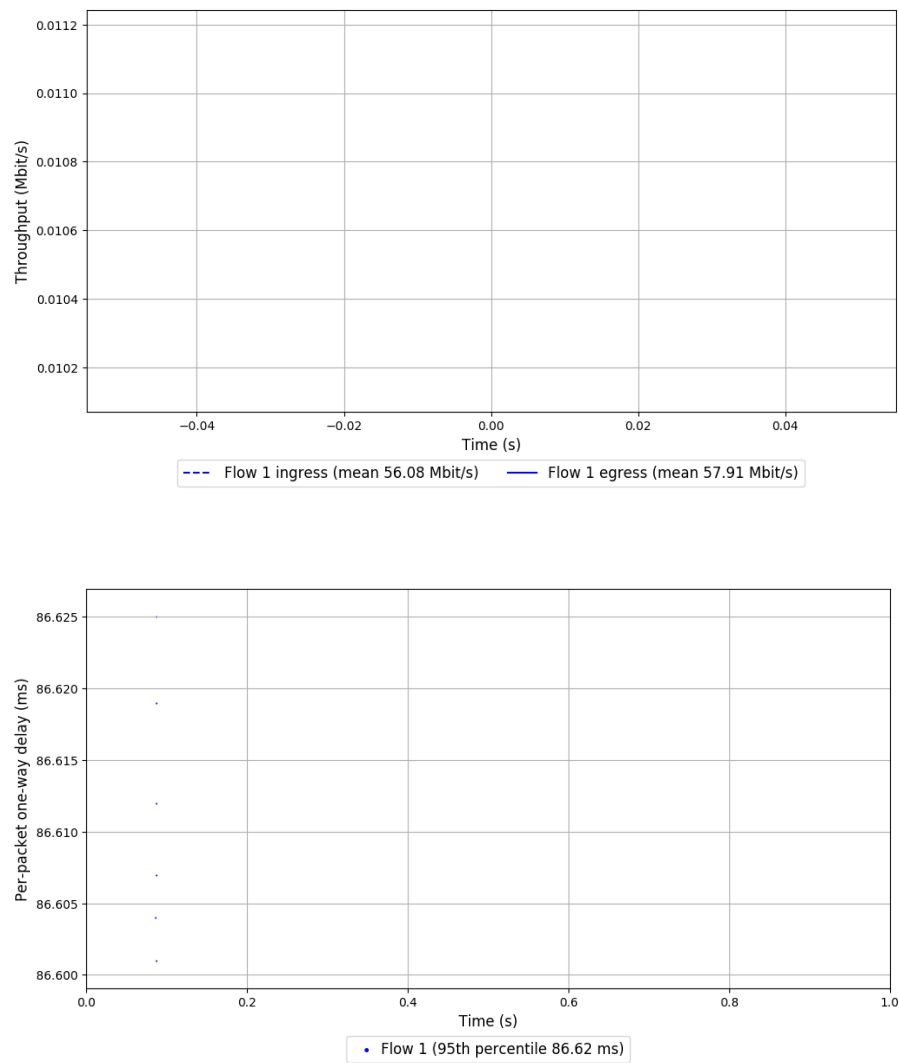


Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 06:22:53

End at: 2017-11-30 06:23:23

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 06:33:26

End at: 2017-11-30 06:33:56

Below is generated by plot.py at 2017-11-30 09:28:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.32 Mbit/s

95th percentile per-packet one-way delay: 86.527 ms

Loss rate: 0.61%

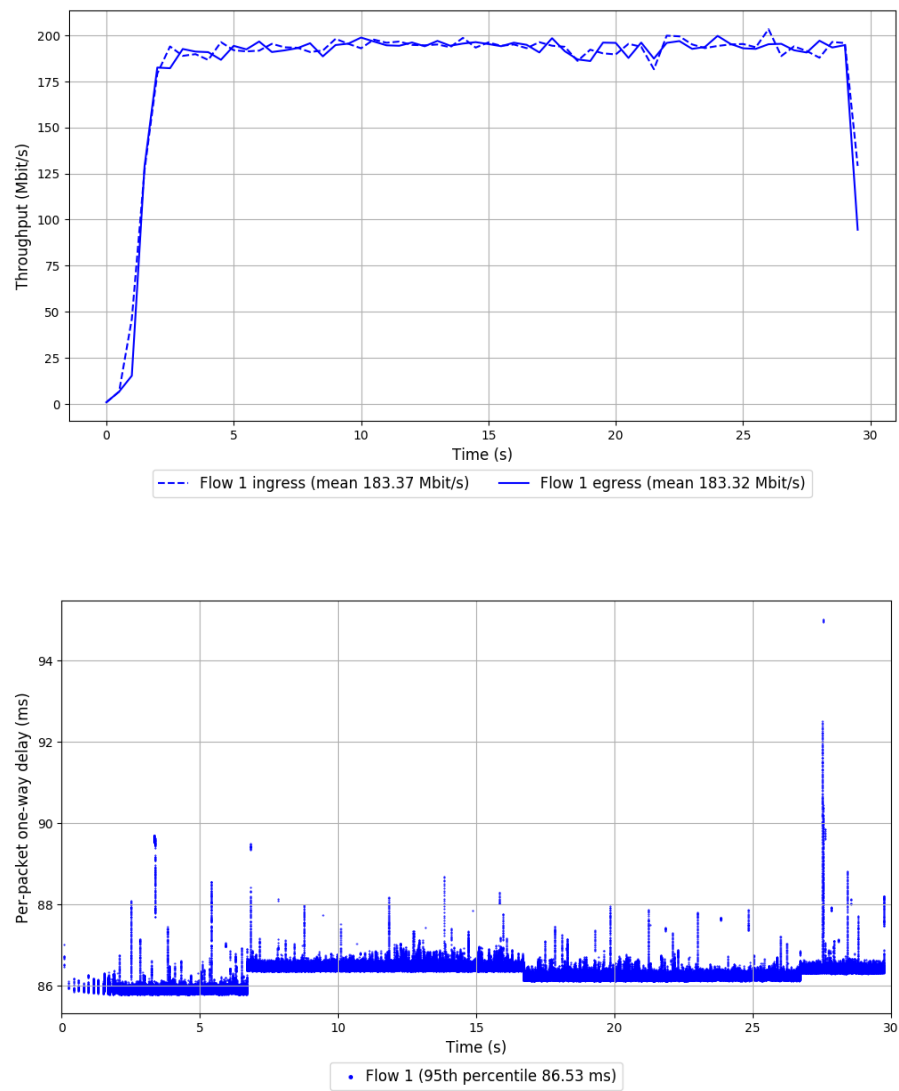
-- Flow 1:

Average throughput: 183.32 Mbit/s

95th percentile per-packet one-way delay: 86.527 ms

Loss rate: 0.61%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 06:44:20

End at: 2017-11-30 06:44:50

Below is generated by plot.py at 2017-11-30 09:28:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.50 Mbit/s

95th percentile per-packet one-way delay: 86.518 ms

Loss rate: 0.63%

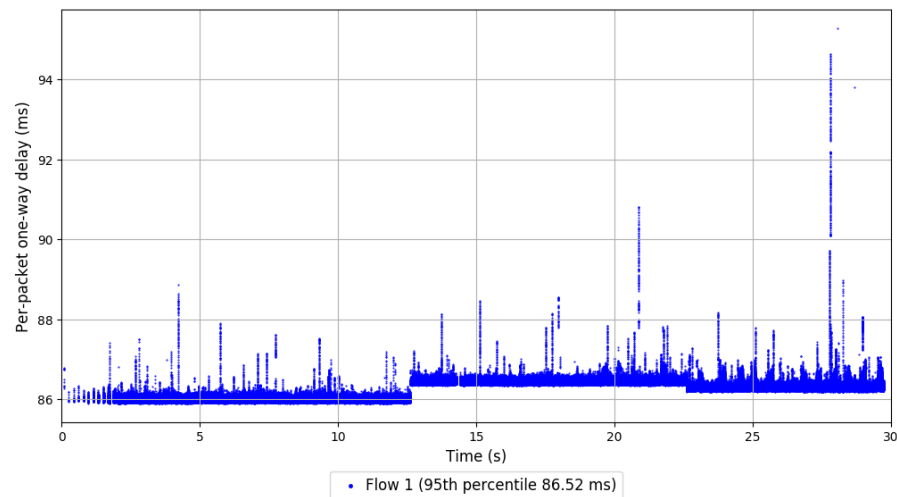
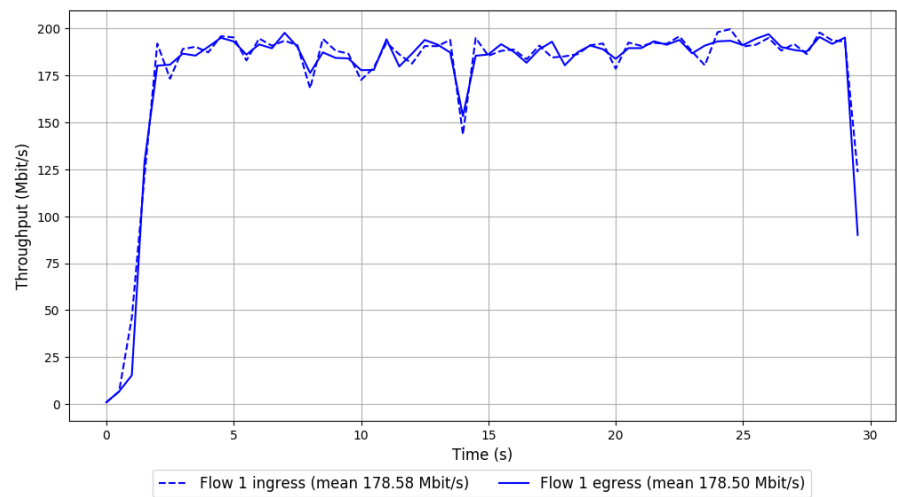
-- Flow 1:

Average throughput: 178.50 Mbit/s

95th percentile per-packet one-way delay: 86.518 ms

Loss rate: 0.63%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 06:55:18

End at: 2017-11-30 06:55:48

Below is generated by plot.py at 2017-11-30 09:28:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.59 Mbit/s

95th percentile per-packet one-way delay: 86.739 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 180.59 Mbit/s

95th percentile per-packet one-way delay: 86.739 ms

Loss rate: 0.64%

Run 10: Report of Indigo-calib — Data Link

