

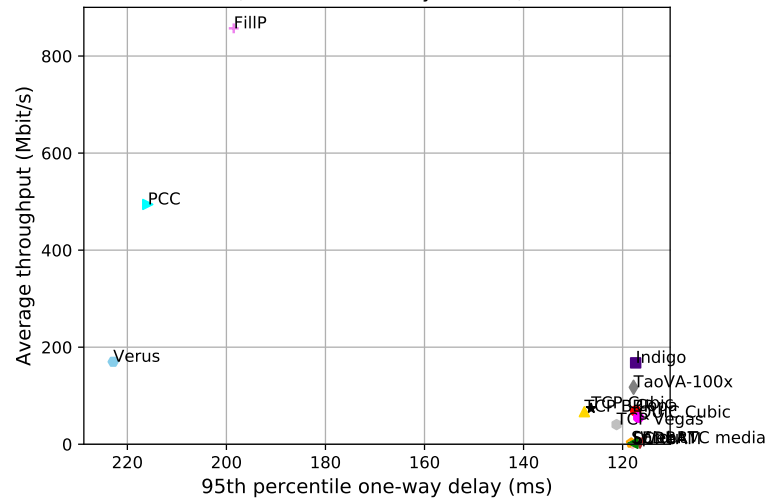
Pantheon Report

Generated at 2018-01-16 04:21:35 (UTC).
Data path: GCE London Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

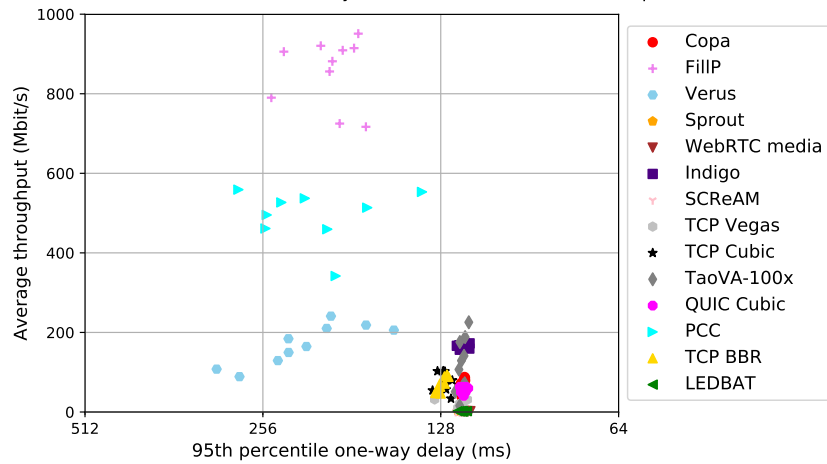
Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	67.10	127.72	0.02
TCP Cubic	10	73.96	126.35	0.15
LEDBAT	9	1.88	117.94	0.44
PCC	9	494.19	215.88	1.95
QUIC Cubic	9	55.00	116.80	0.00
SCReAM	10	0.20	118.00	0.01
WebRTC media	10	2.15	116.49	0.00
Sprout	9	2.68	118.27	0.05
TaoVA-100x	10	117.37	117.79	0.00
TCP Vegas	10	40.48	121.22	0.04
Verus	10	169.97	222.86	2.53
Copa	10	68.46	117.35	0.00
FillP	10	857.10	198.52	3.22
Indigo	10	167.71	117.37	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-01-16 00:48:58

End at: 2018-01-16 00:49:28

Below is generated by plot.py at 2018-01-16 03:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 124.922 ms

Loss rate: 0.00%

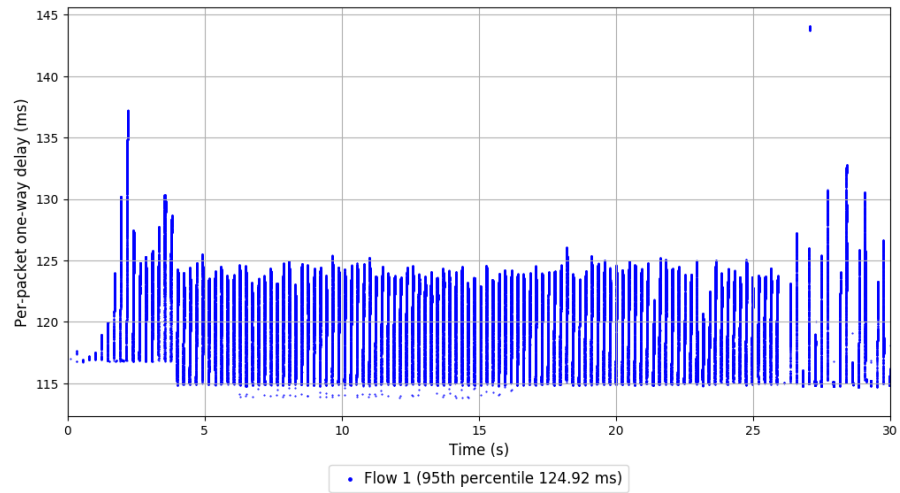
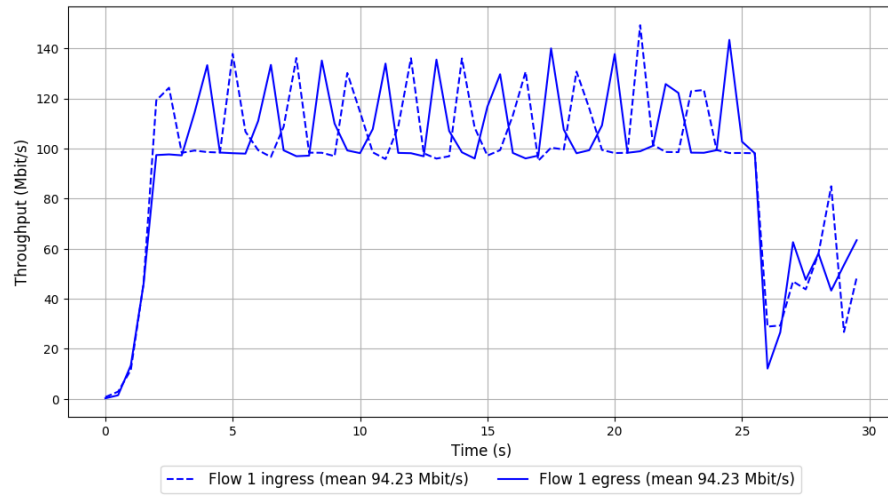
-- Flow 1:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 124.922 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-16 01:01:21

End at: 2018-01-16 01:01:51

Below is generated by plot.py at 2018-01-16 03:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.58 Mbit/s

95th percentile per-packet one-way delay: 128.400 ms

Loss rate: 0.00%

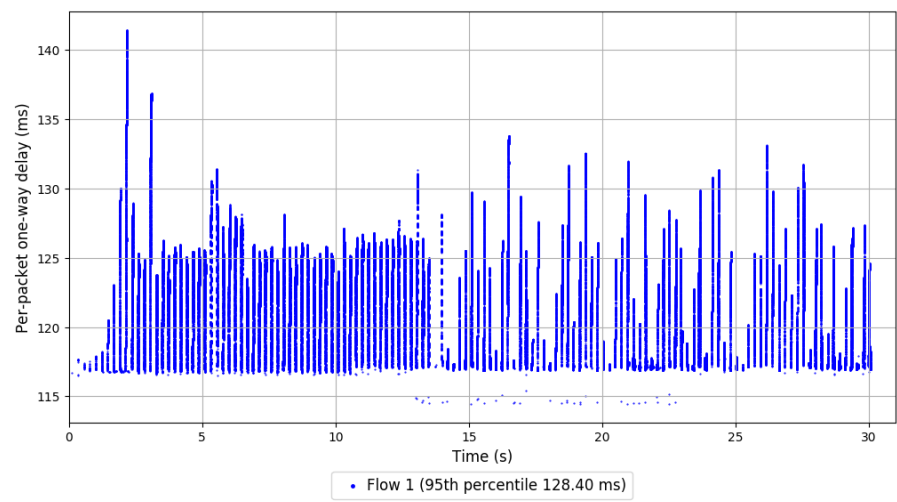
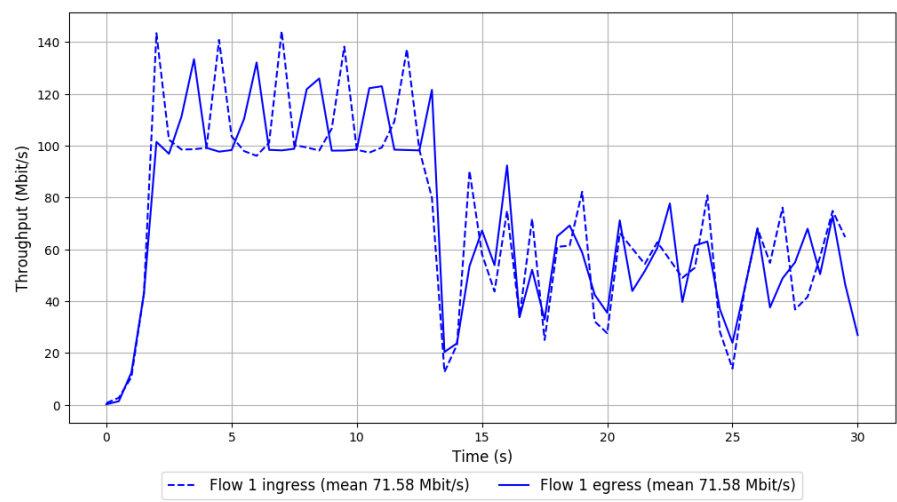
-- Flow 1:

Average throughput: 71.58 Mbit/s

95th percentile per-packet one-way delay: 128.400 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 01:13:41

End at: 2018-01-16 01:14:11

Below is generated by plot.py at 2018-01-16 03:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 130.613 ms

Loss rate: 0.00%

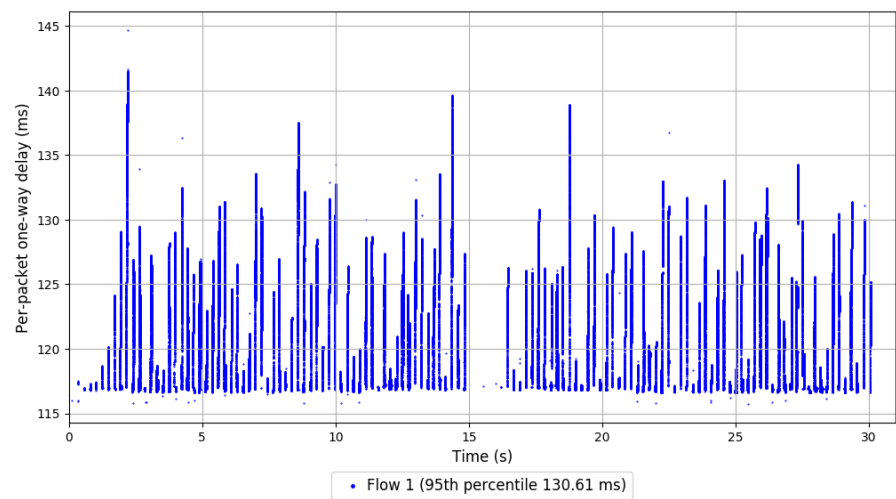
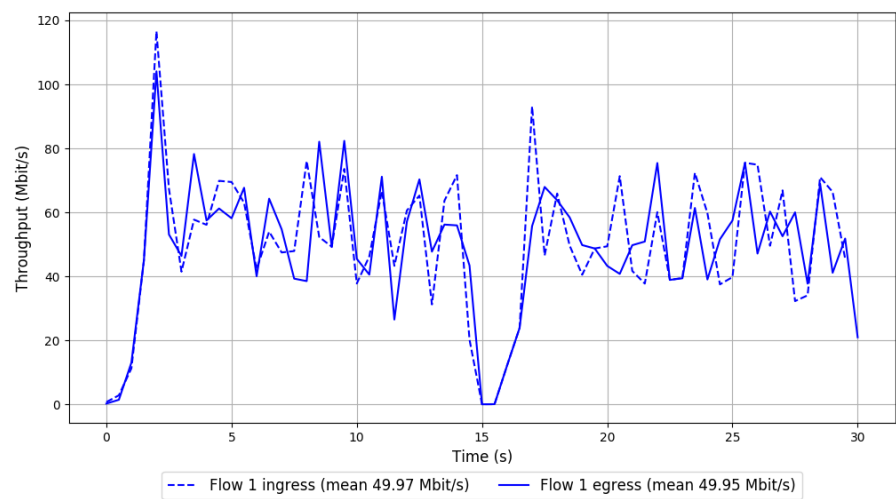
-- Flow 1:

Average throughput: 49.95 Mbit/s

95th percentile per-packet one-way delay: 130.613 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 01:25:47

End at: 2018-01-16 01:26:17

Below is generated by plot.py at 2018-01-16 03:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 126.147 ms

Loss rate: 0.00%

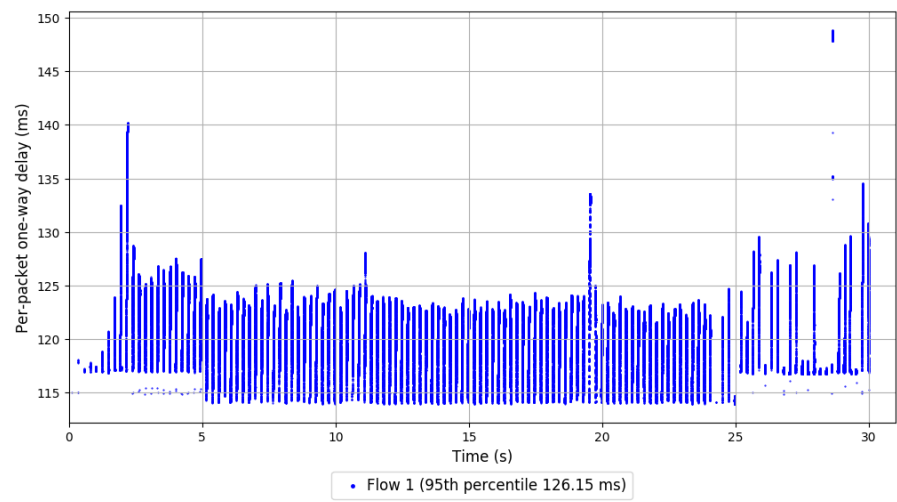
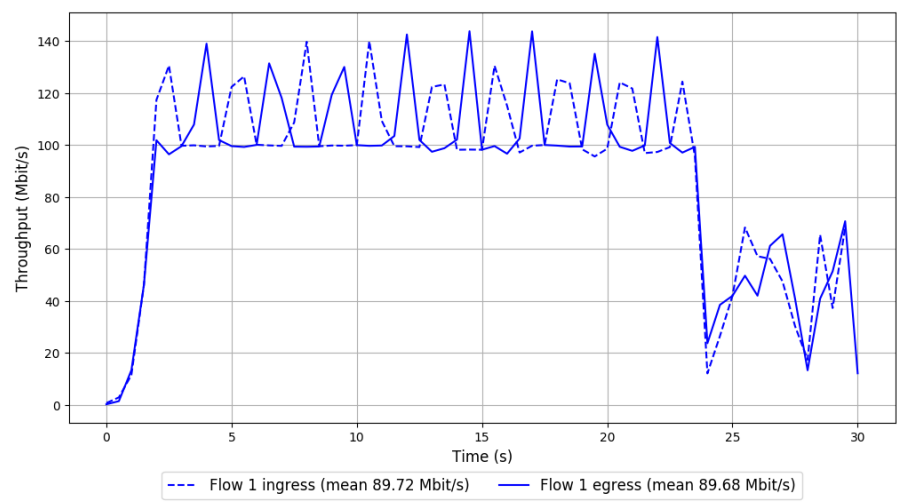
-- Flow 1:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 126.147 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 01:38:23

End at: 2018-01-16 01:38:53

Below is generated by plot.py at 2018-01-16 03:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.36 Mbit/s

95th percentile per-packet one-way delay: 126.034 ms

Loss rate: 0.00%

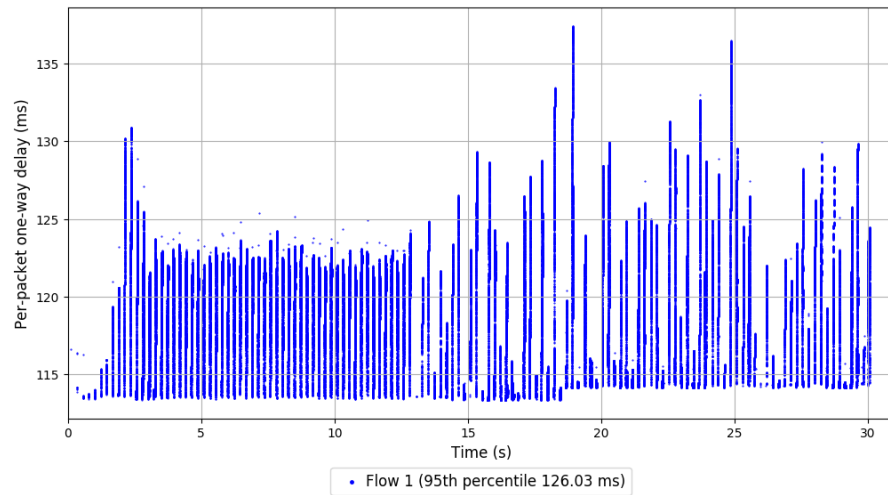
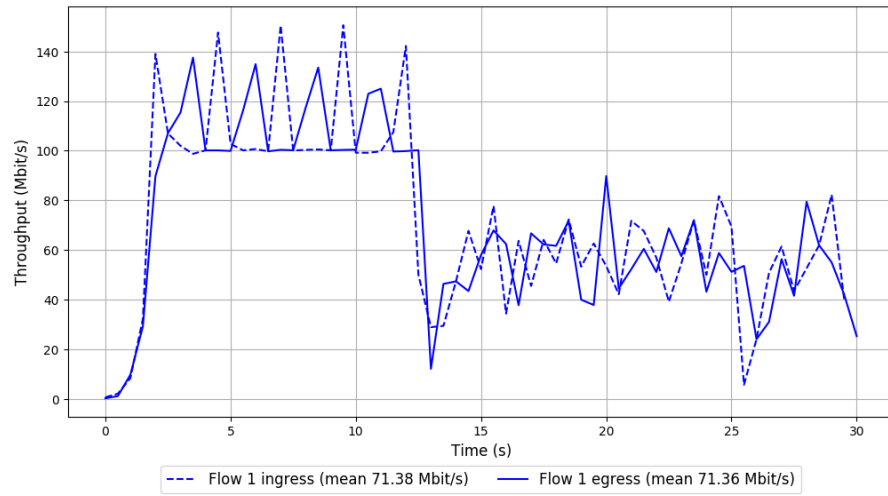
-- Flow 1:

Average throughput: 71.36 Mbit/s

95th percentile per-packet one-way delay: 126.034 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-16 01:50:37

End at: 2018-01-16 01:51:07

Below is generated by plot.py at 2018-01-16 03:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.35 Mbit/s

95th percentile per-packet one-way delay: 124.178 ms

Loss rate: 0.00%

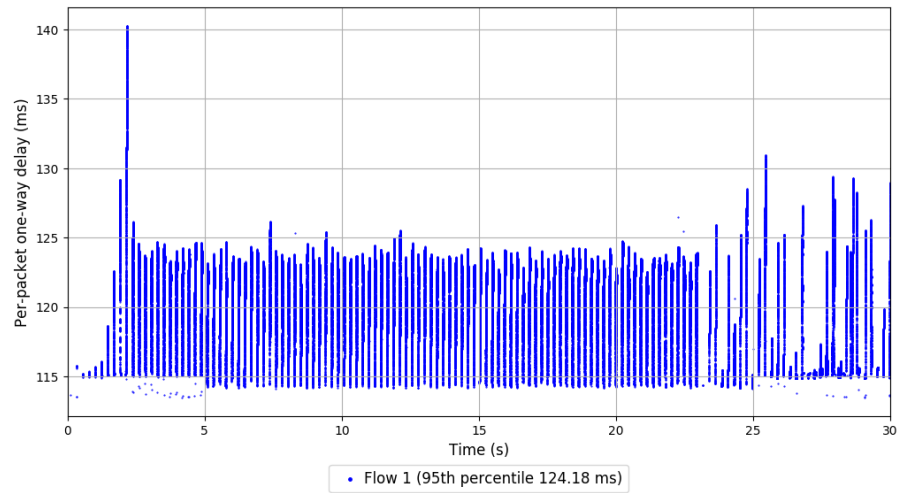
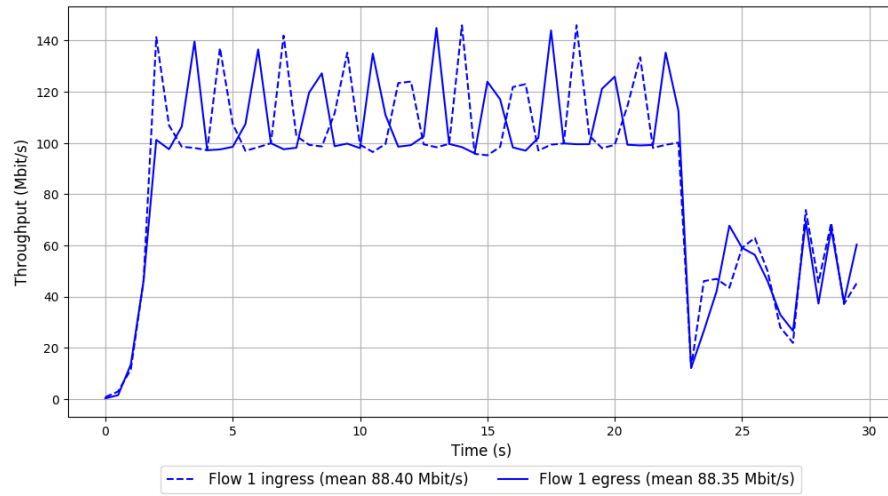
-- Flow 1:

Average throughput: 88.35 Mbit/s

95th percentile per-packet one-way delay: 124.178 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 02:03:03

End at: 2018-01-16 02:03:33

Below is generated by plot.py at 2018-01-16 03:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.74 Mbit/s

95th percentile per-packet one-way delay: 128.301 ms

Loss rate: 0.00%

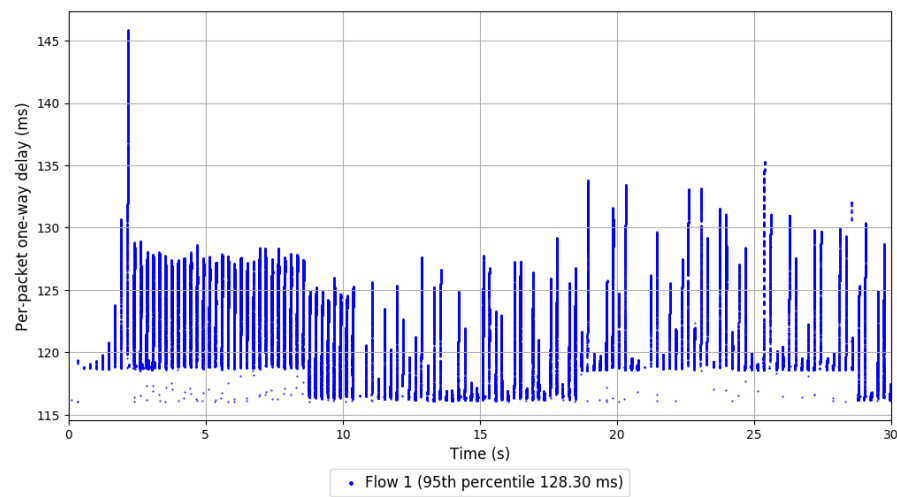
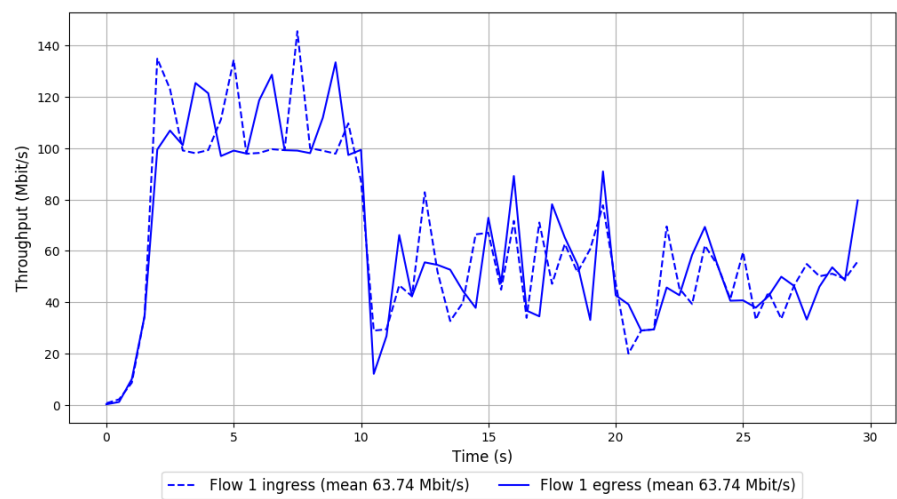
-- Flow 1:

Average throughput: 63.74 Mbit/s

95th percentile per-packet one-way delay: 128.301 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-16 02:15:21

End at: 2018-01-16 02:15:51

Below is generated by plot.py at 2018-01-16 03:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.03 Mbit/s

95th percentile per-packet one-way delay: 130.711 ms

Loss rate: 0.01%

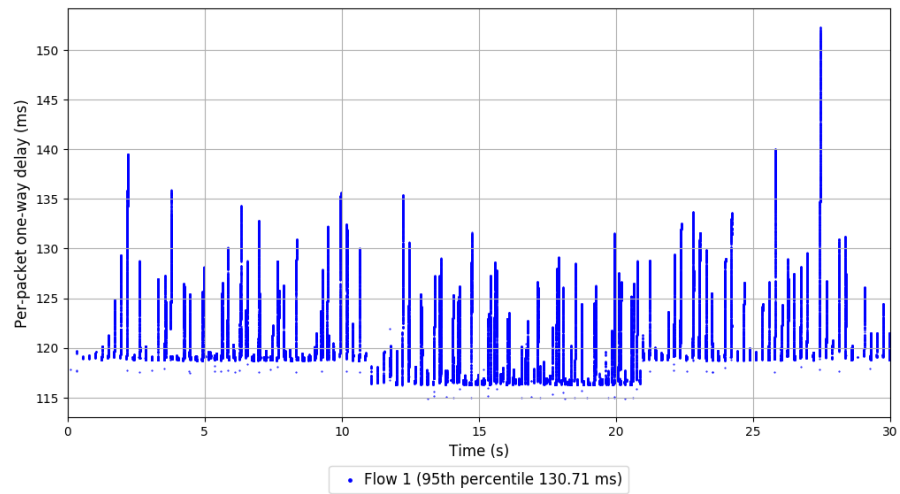
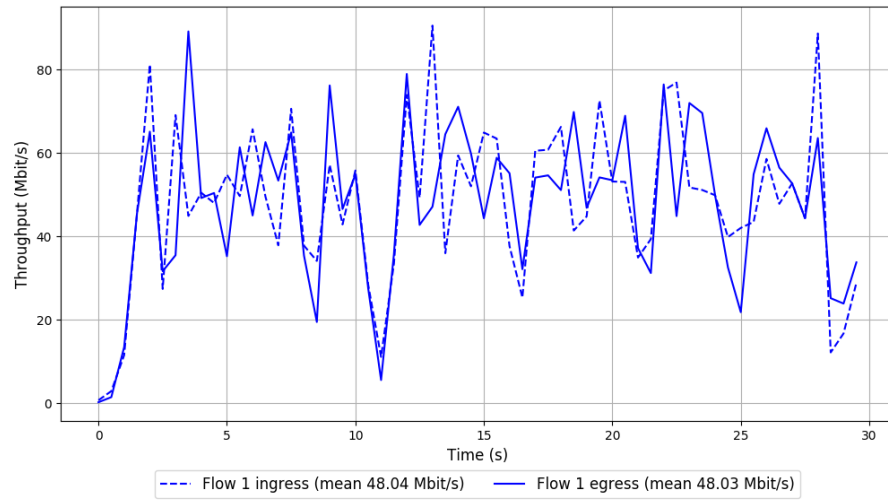
-- Flow 1:

Average throughput: 48.03 Mbit/s

95th percentile per-packet one-way delay: 130.711 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-16 02:27:31

End at: 2018-01-16 02:28:01

Below is generated by plot.py at 2018-01-16 03:38:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.53 Mbit/s

95th percentile per-packet one-way delay: 128.016 ms

Loss rate: 0.03%

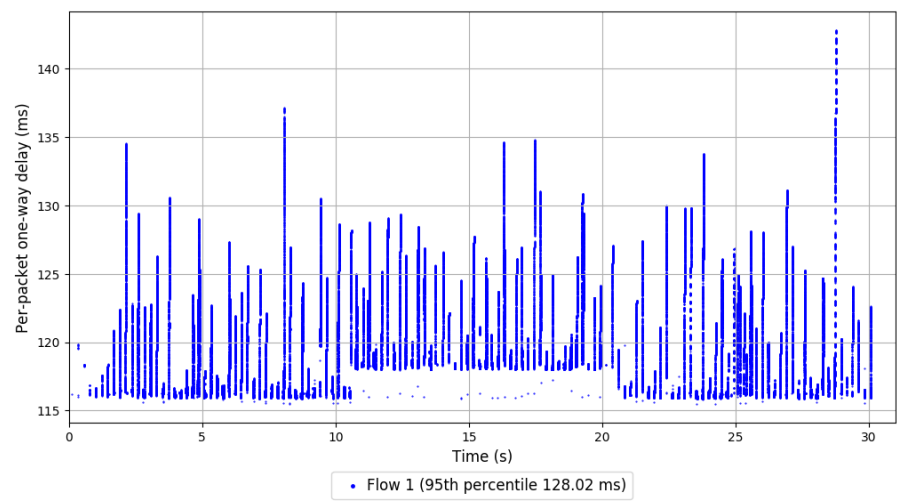
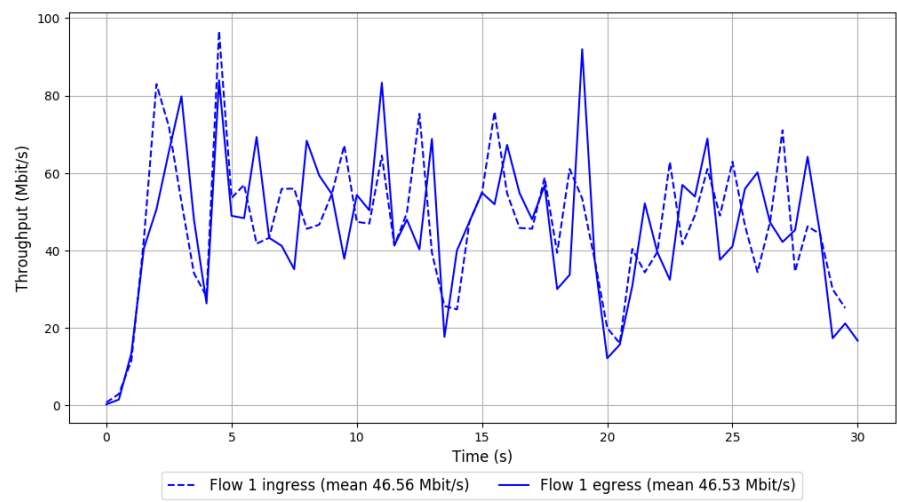
-- Flow 1:

Average throughput: 46.53 Mbit/s

95th percentile per-packet one-way delay: 128.016 ms

Loss rate: 0.03%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-16 02:39:46

End at: 2018-01-16 02:40:16

Below is generated by plot.py at 2018-01-16 03:38:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.52 Mbit/s

95th percentile per-packet one-way delay: 129.914 ms

Loss rate: 0.13%

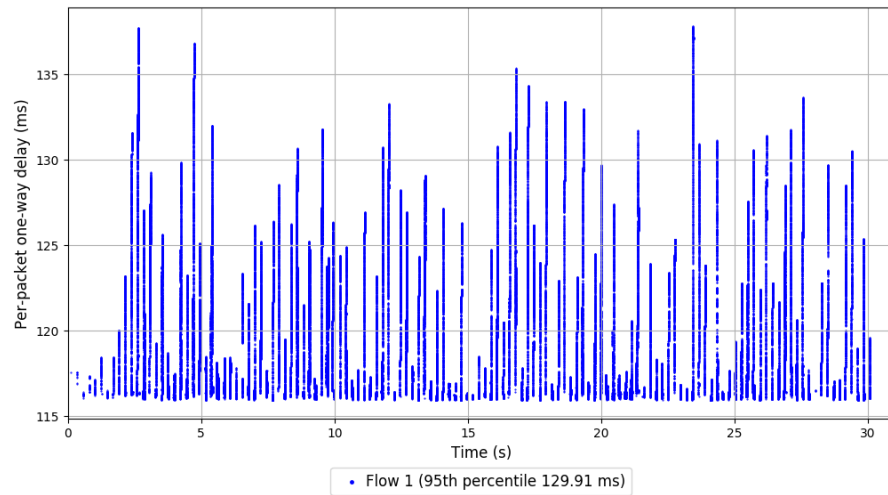
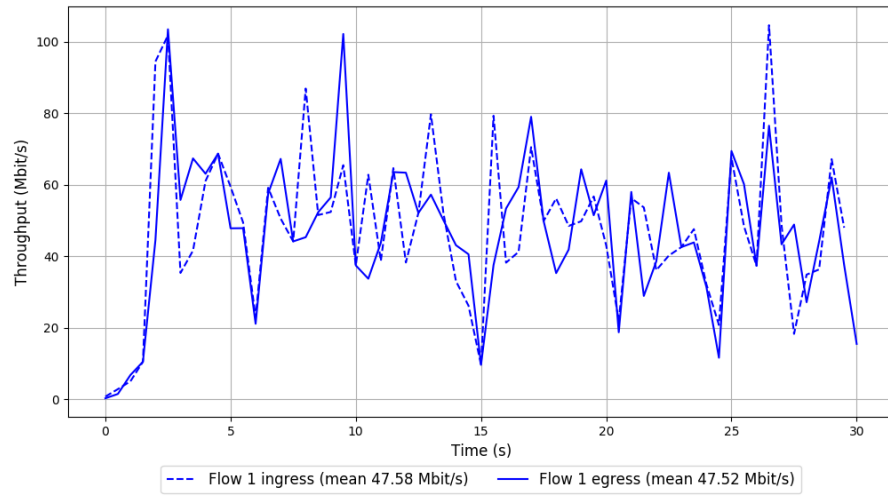
-- Flow 1:

Average throughput: 47.52 Mbit/s

95th percentile per-packet one-way delay: 129.914 ms

Loss rate: 0.13%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 00:41:05

End at: 2018-01-16 00:41:35

Below is generated by plot.py at 2018-01-16 03:39:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 125.464 ms

Loss rate: 0.00%

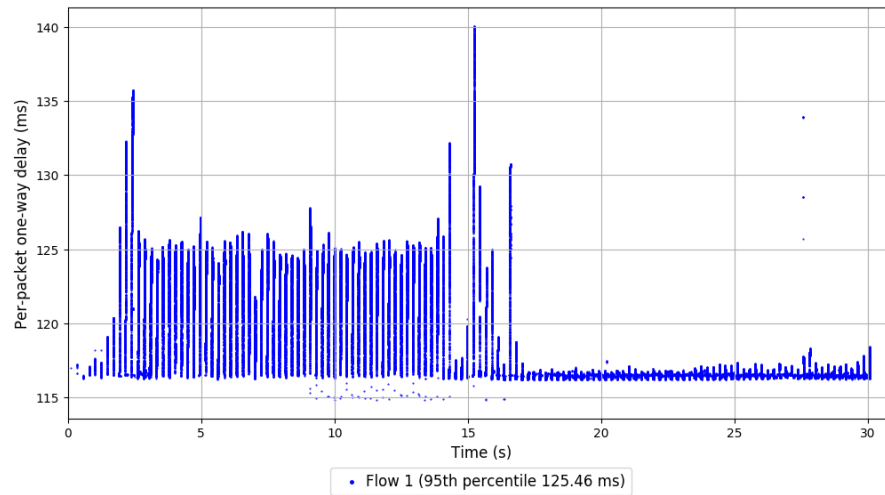
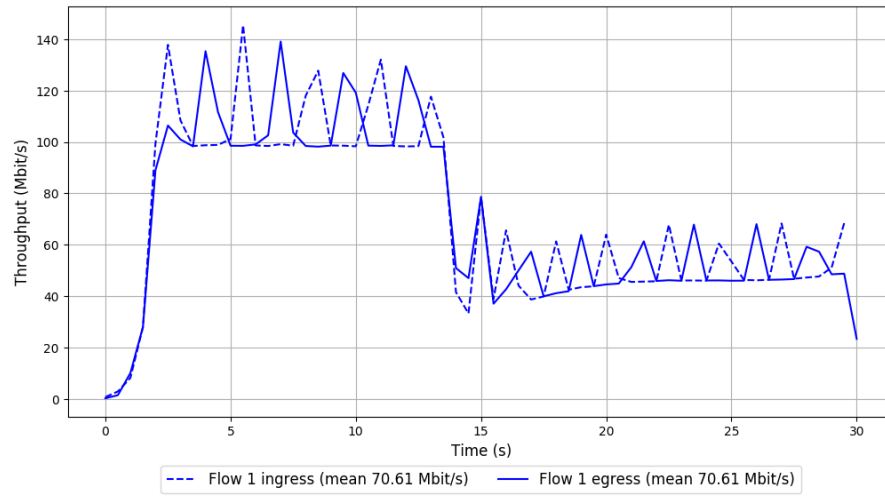
-- Flow 1:

Average throughput: 70.61 Mbit/s

95th percentile per-packet one-way delay: 125.464 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 00:53:30

End at: 2018-01-16 00:54:00

Below is generated by plot.py at 2018-01-16 03:39:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.40 Mbit/s

95th percentile per-packet one-way delay: 125.926 ms

Loss rate: 0.00%

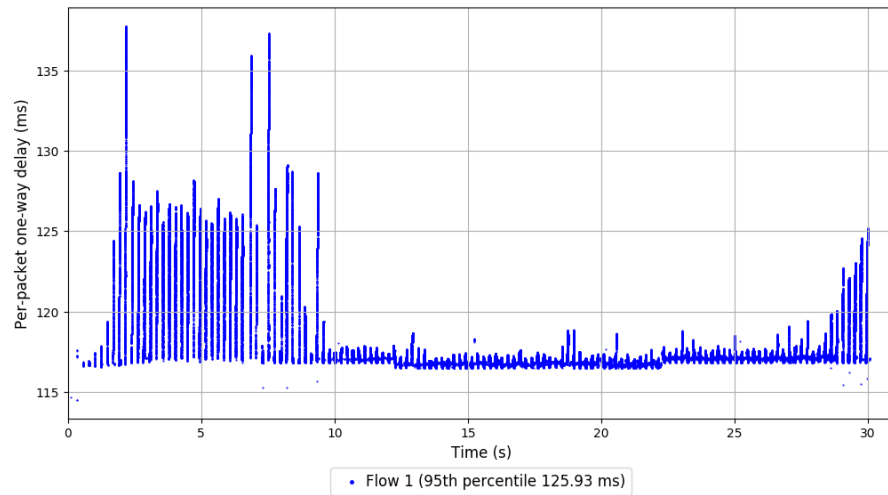
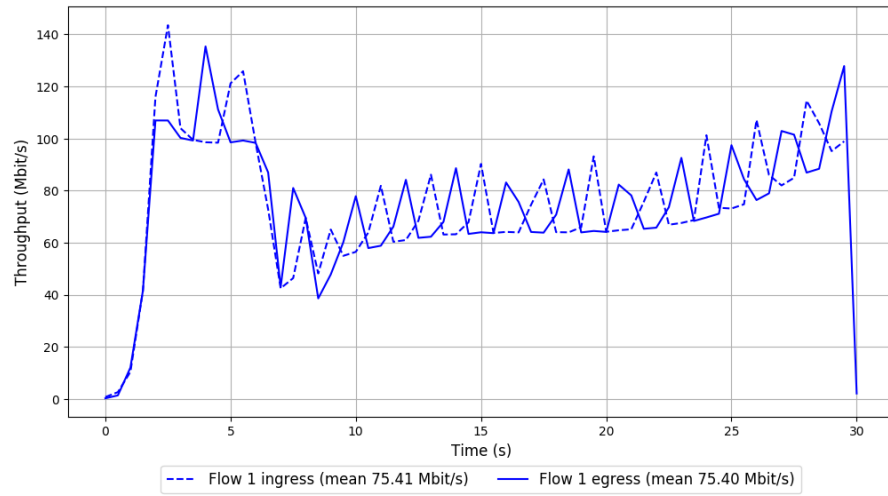
-- Flow 1:

Average throughput: 75.40 Mbit/s

95th percentile per-packet one-way delay: 125.926 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 01:05:56

End at: 2018-01-16 01:06:26

Below is generated by plot.py at 2018-01-16 03:39:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.91 Mbit/s

95th percentile per-packet one-way delay: 126.774 ms

Loss rate: 0.00%

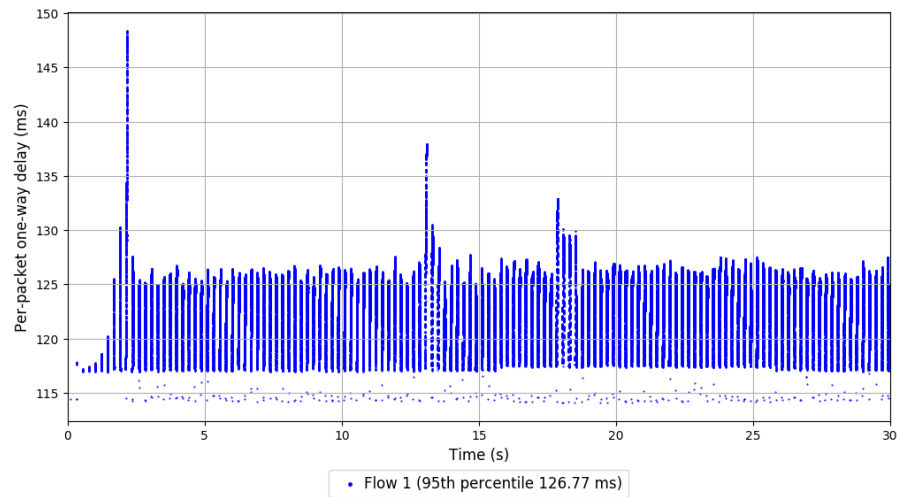
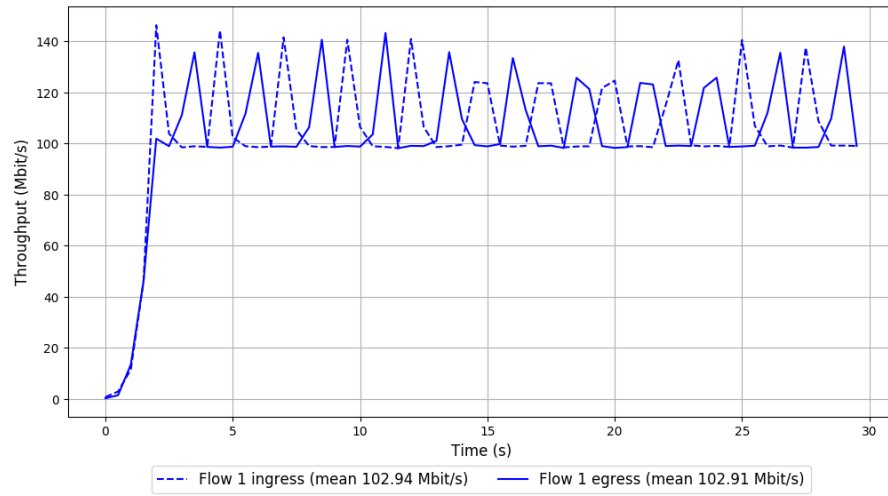
-- Flow 1:

Average throughput: 102.91 Mbit/s

95th percentile per-packet one-way delay: 126.774 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 01:18:11

End at: 2018-01-16 01:18:41

Below is generated by plot.py at 2018-01-16 03:40:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.08 Mbit/s

95th percentile per-packet one-way delay: 125.971 ms

Loss rate: 0.00%

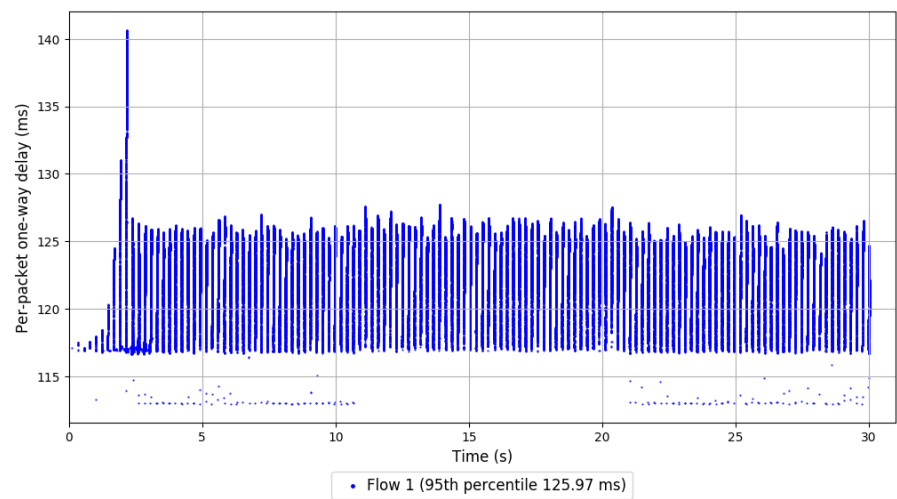
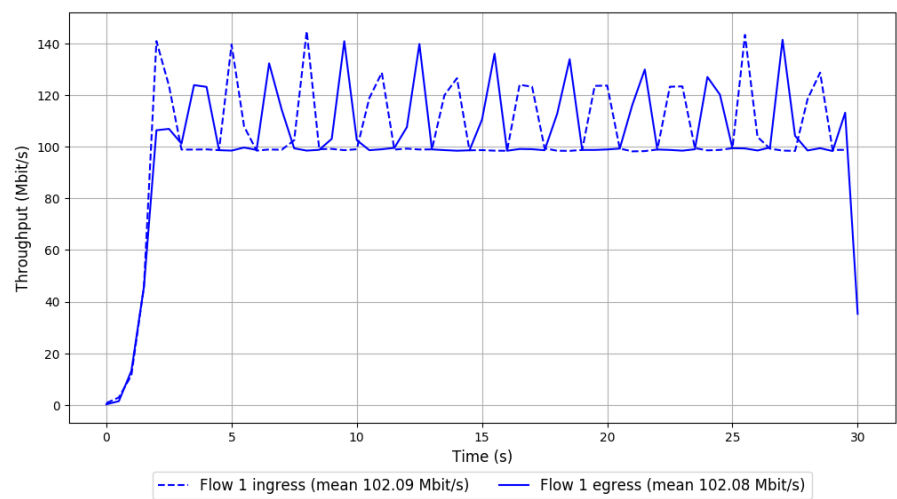
-- Flow 1:

Average throughput: 102.08 Mbit/s

95th percentile per-packet one-way delay: 125.971 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 01:30:20

End at: 2018-01-16 01:30:50

Below is generated by plot.py at 2018-01-16 03:40:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.85 Mbit/s

95th percentile per-packet one-way delay: 125.398 ms

Loss rate: 0.05%

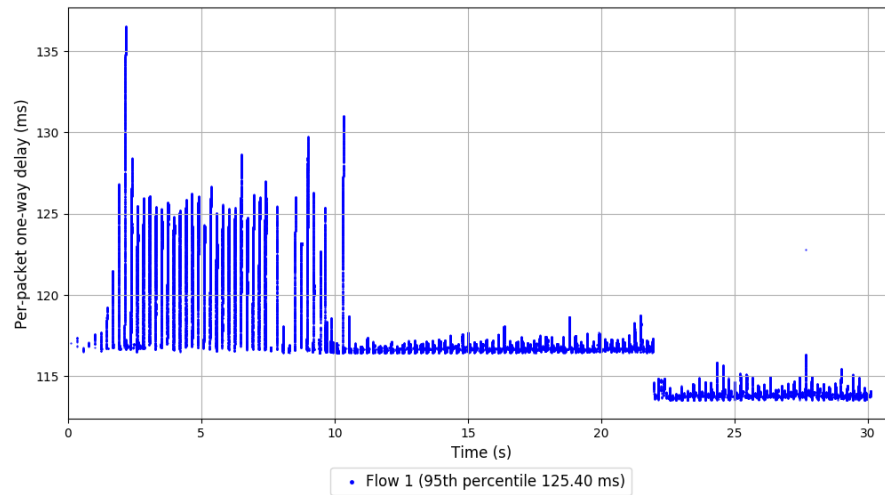
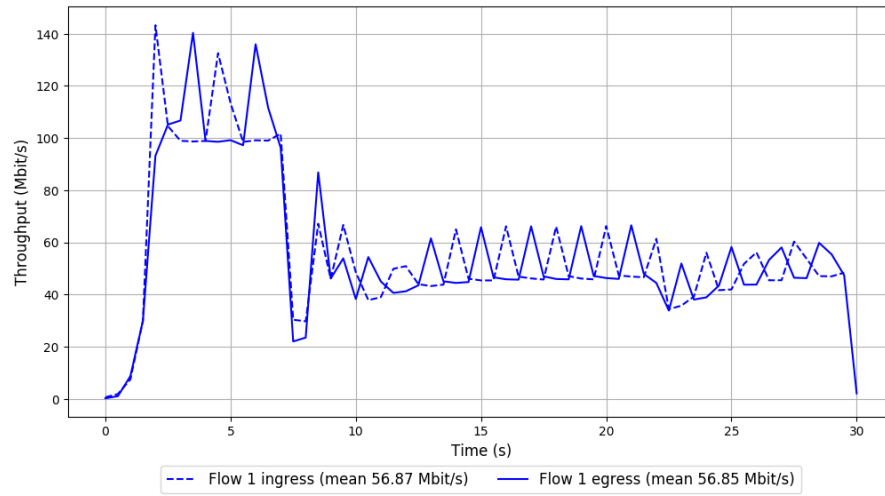
-- Flow 1:

Average throughput: 56.85 Mbit/s

95th percentile per-packet one-way delay: 125.398 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 01:42:51

End at: 2018-01-16 01:43:21

Below is generated by plot.py at 2018-01-16 03:40:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.63 Mbit/s

95th percentile per-packet one-way delay: 122.358 ms

Loss rate: 0.30%

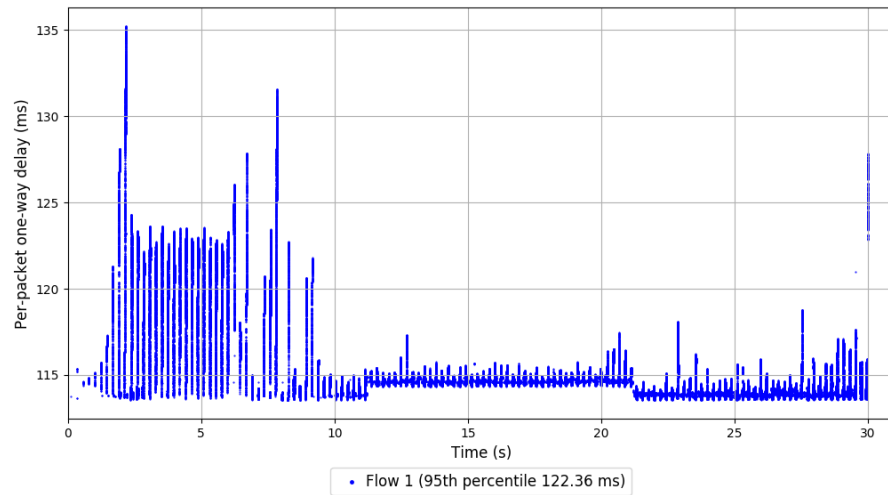
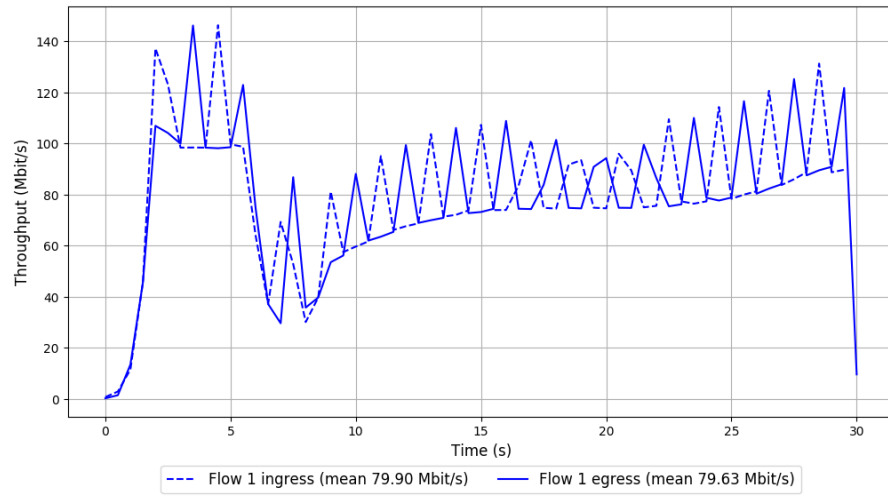
-- Flow 1:

Average throughput: 79.63 Mbit/s

95th percentile per-packet one-way delay: 122.358 ms

Loss rate: 0.30%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 01:55:12

End at: 2018-01-16 01:55:42

Below is generated by plot.py at 2018-01-16 03:40:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 126.849 ms

Loss rate: 0.44%

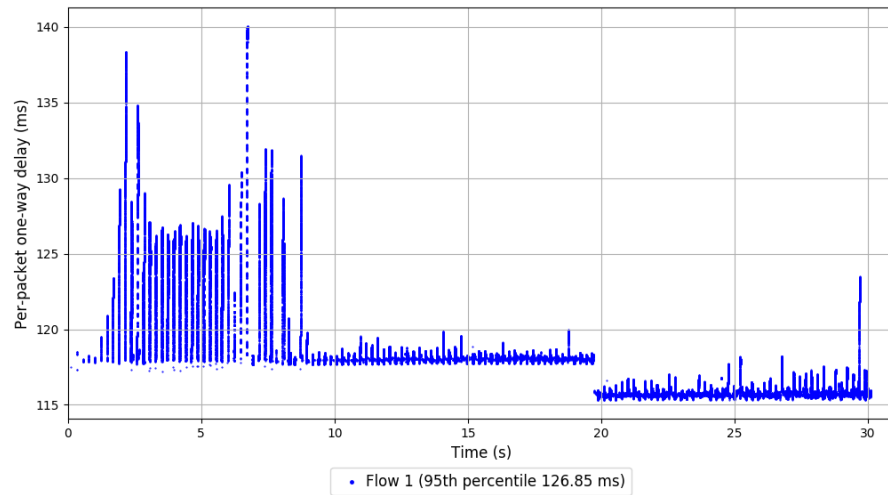
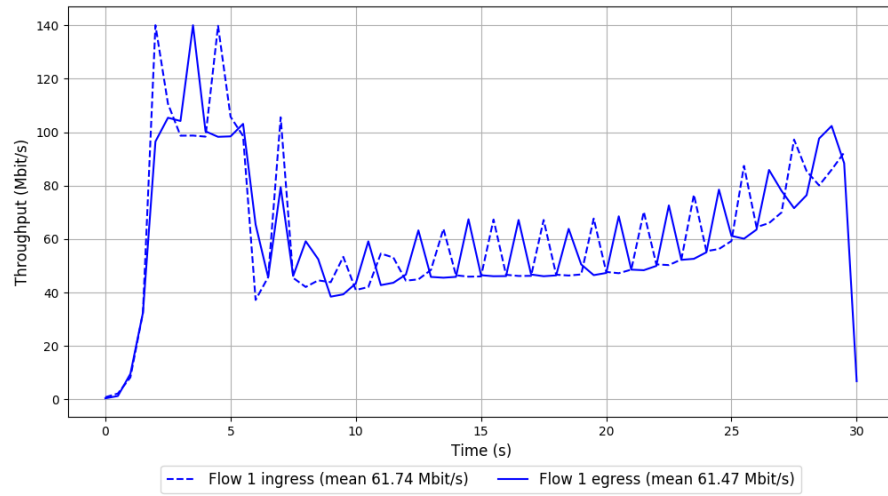
-- Flow 1:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 126.849 ms

Loss rate: 0.44%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 02:07:37

End at: 2018-01-16 02:08:07

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.71 Mbit/s

95th percentile per-packet one-way delay: 129.634 ms

Loss rate: 0.00%

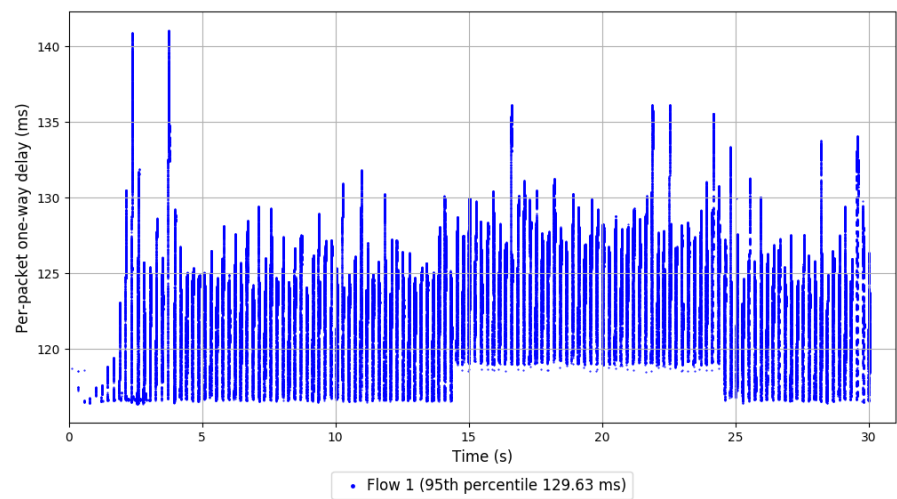
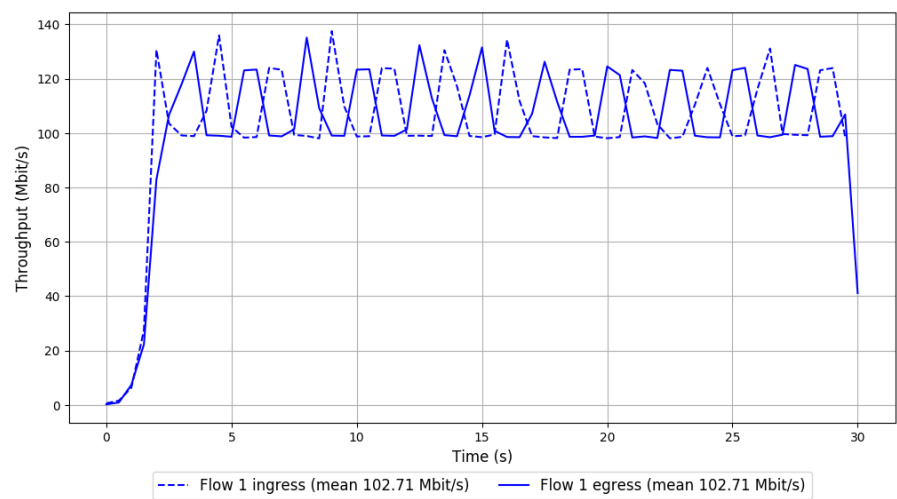
-- Flow 1:

Average throughput: 102.71 Mbit/s

95th percentile per-packet one-way delay: 129.634 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-16 02:19:51

End at: 2018-01-16 02:20:21

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.26 Mbit/s

95th percentile per-packet one-way delay: 132.153 ms

Loss rate: 0.63%

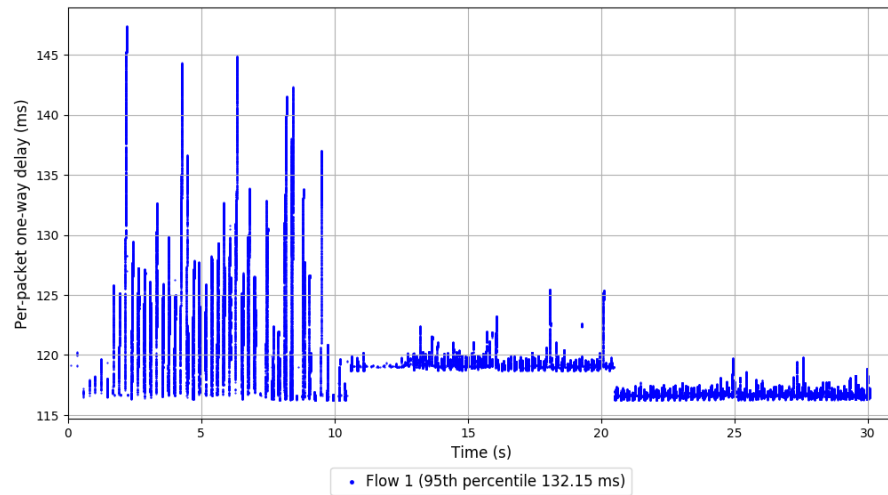
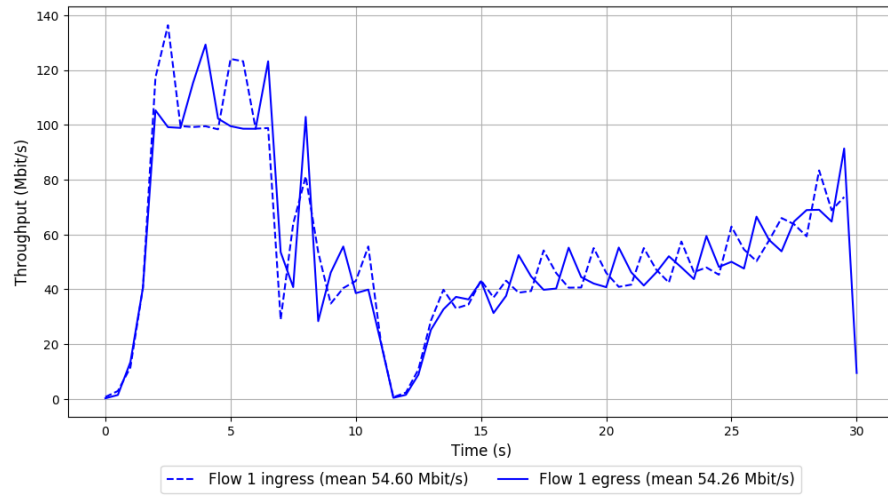
-- Flow 1:

Average throughput: 54.26 Mbit/s

95th percentile per-packet one-way delay: 132.153 ms

Loss rate: 0.63%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-16 02:31:54

End at: 2018-01-16 02:32:24

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 122.993 ms

Loss rate: 0.06%

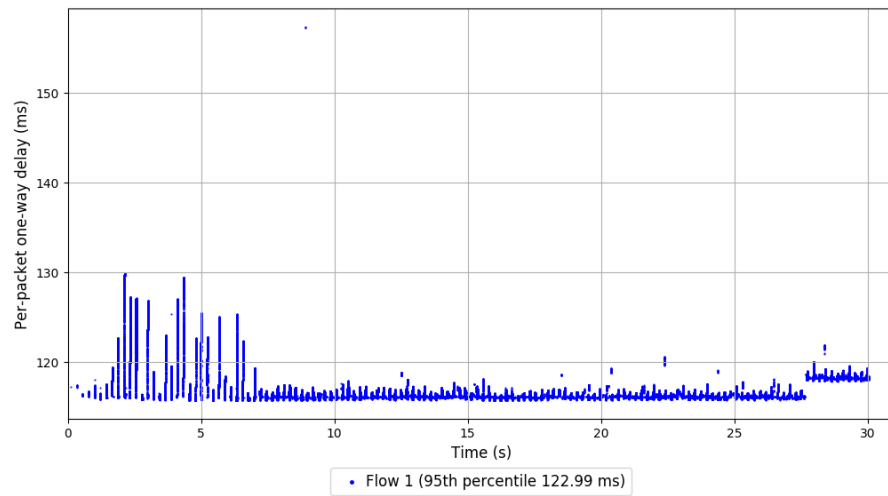
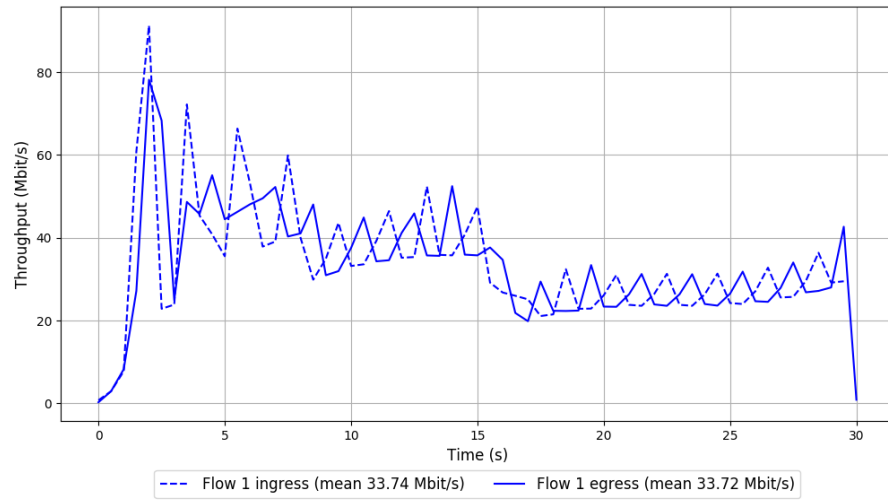
-- Flow 1:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 122.993 ms

Loss rate: 0.06%

Run 10: Report of TCP Cubic — Data Link

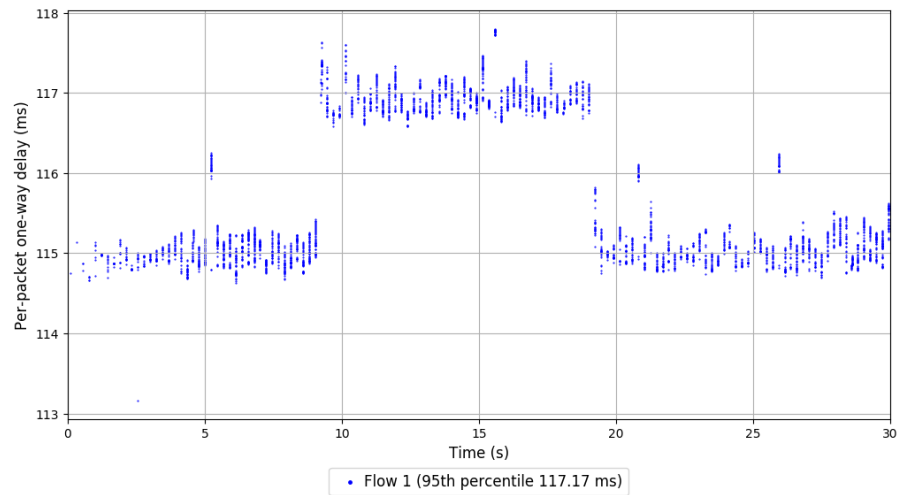
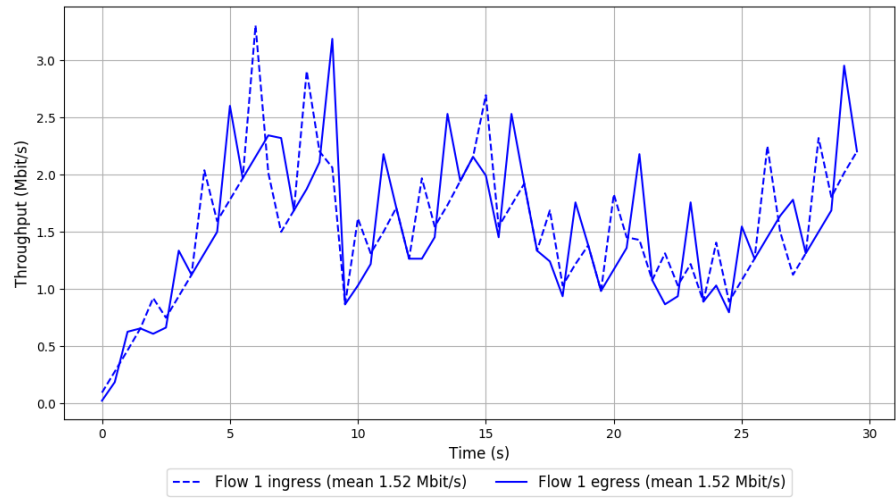


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 00:46:33
End at: 2018-01-16 00:47:03

# Below is generated by plot.py at 2018-01-16 03:40:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 117.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 117.175 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

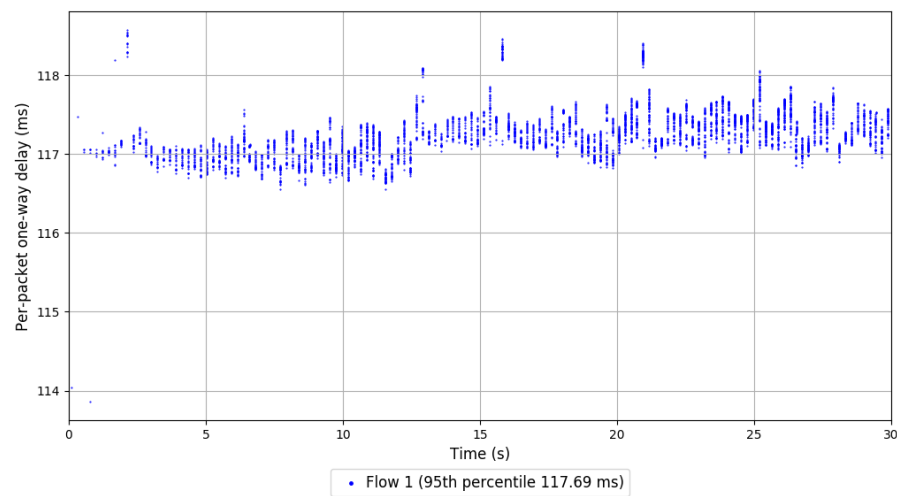
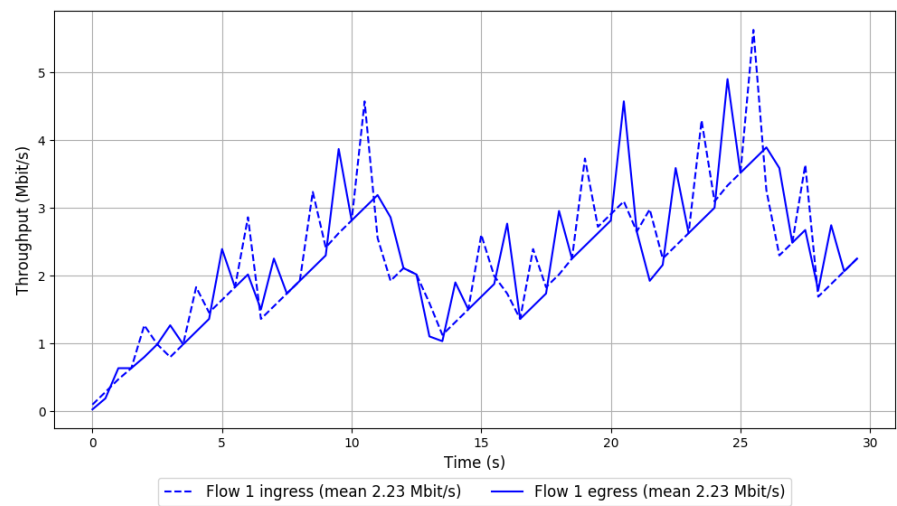


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-16 00:58:59
End at: 2018-01-16 00:59:29

# Below is generated by plot.py at 2018-01-16 03:40:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 117.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 117.693 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 01:11:17

End at: 2018-01-16 01:11:47

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 117.960 ms

Loss rate: 0.00%

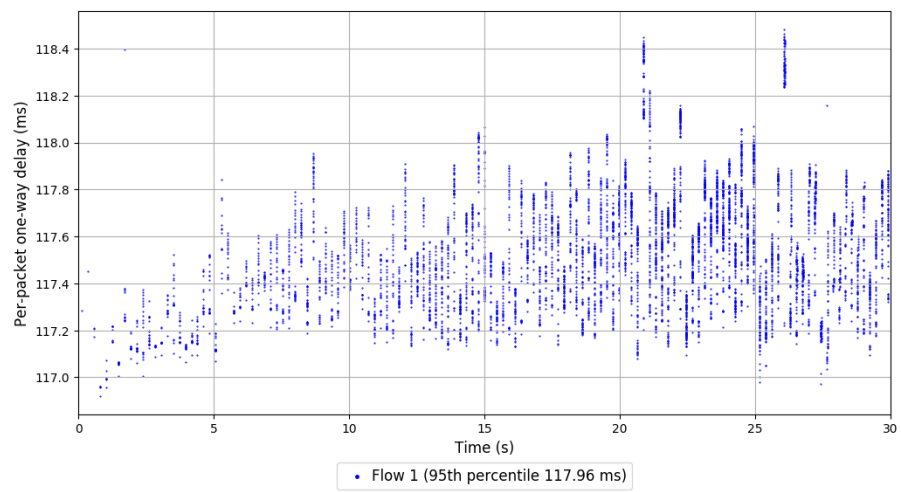
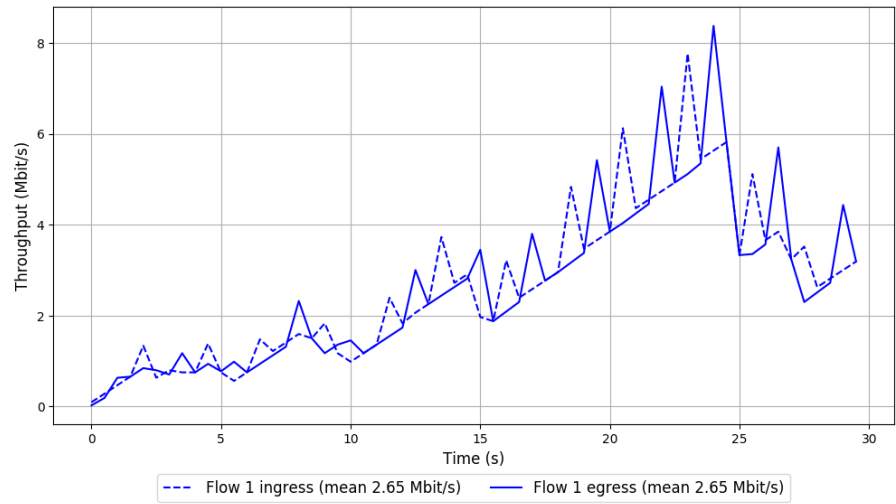
-- Flow 1:

Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 117.960 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

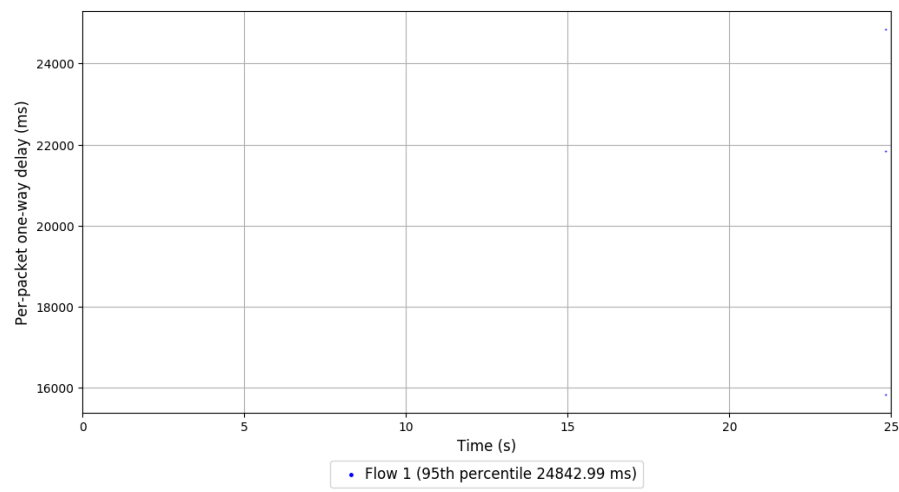
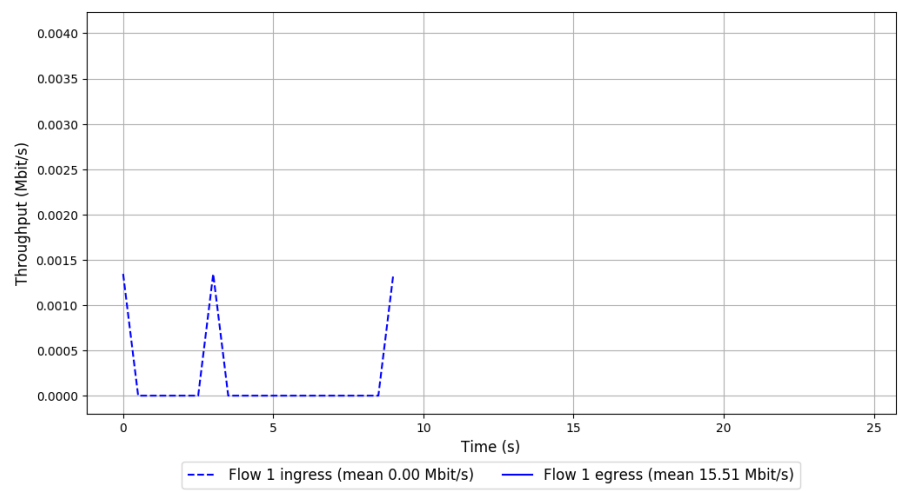


Run 4: Statistics of LEDBAT

Start at: 2018-01-16 01:23:45

End at: 2018-01-16 01:24:15

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-16 01:35:58

End at: 2018-01-16 01:36:28

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 117.335 ms

Loss rate: 0.04%

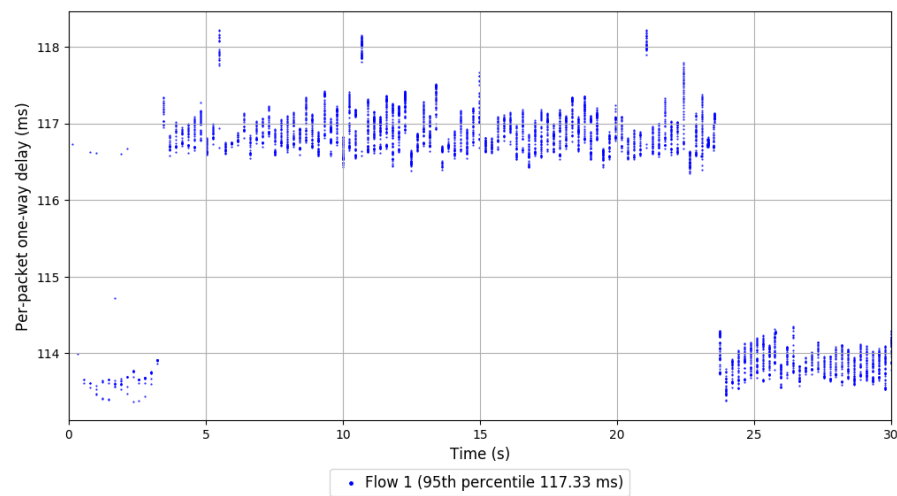
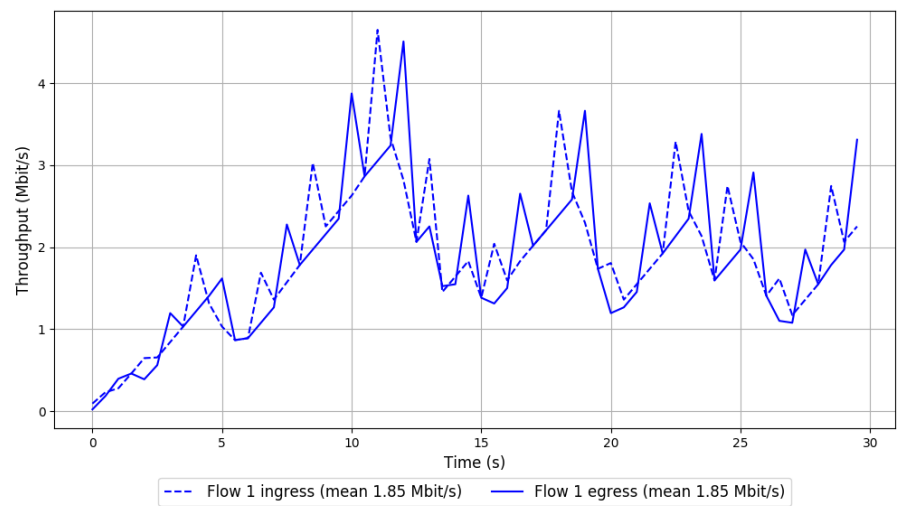
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 117.335 ms

Loss rate: 0.04%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-16 01:48:14

End at: 2018-01-16 01:48:44

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 115.603 ms

Loss rate: 0.00%

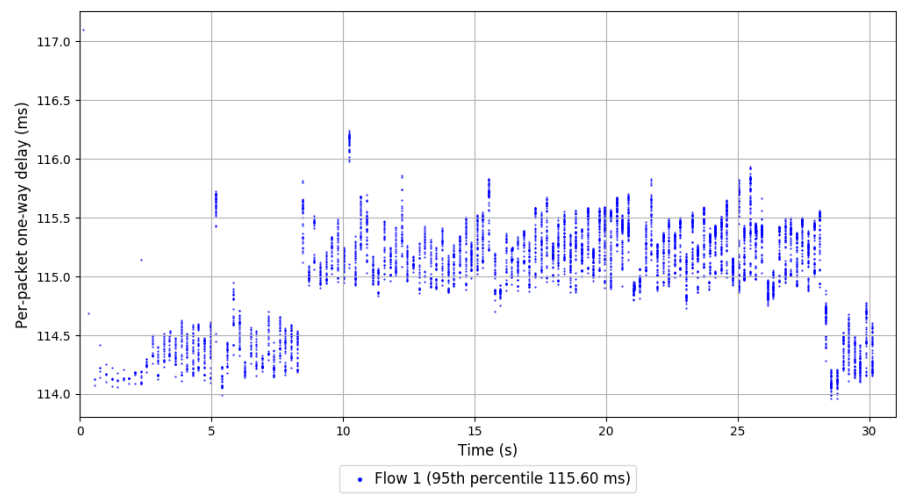
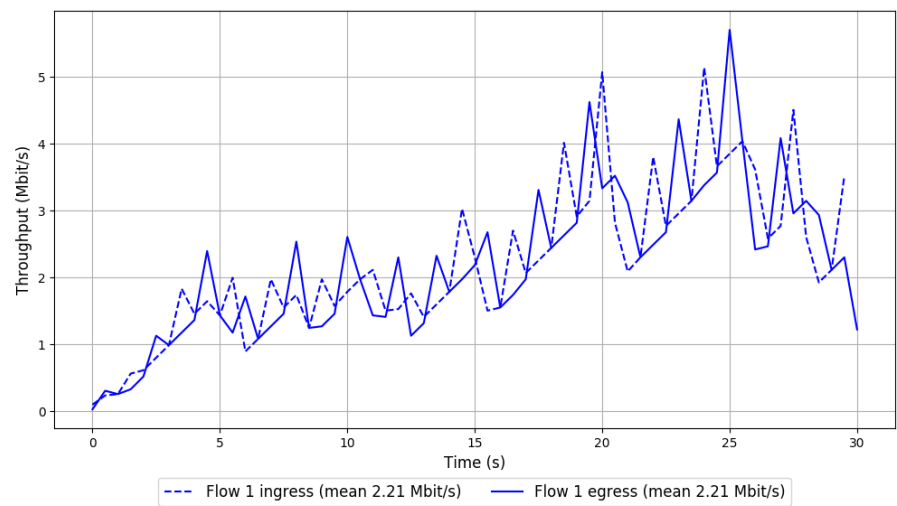
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 115.603 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-16 02:00:38

End at: 2018-01-16 02:01:09

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 119.103 ms

Loss rate: 0.00%

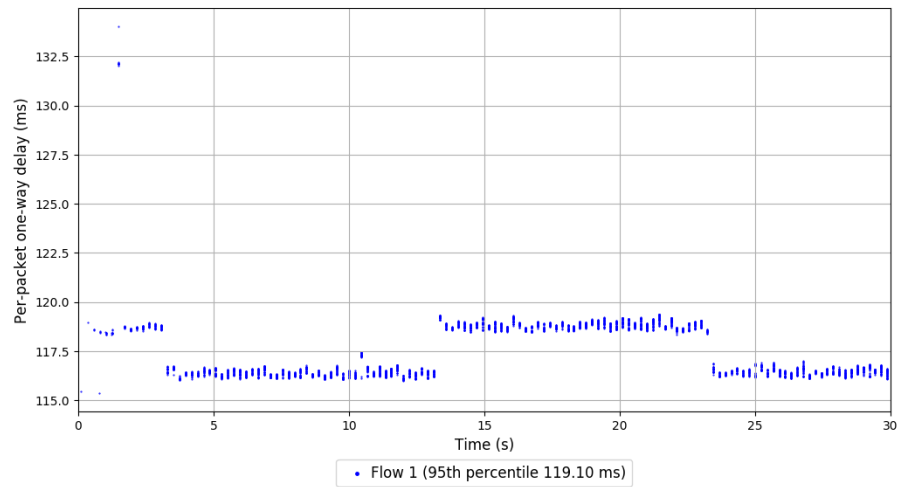
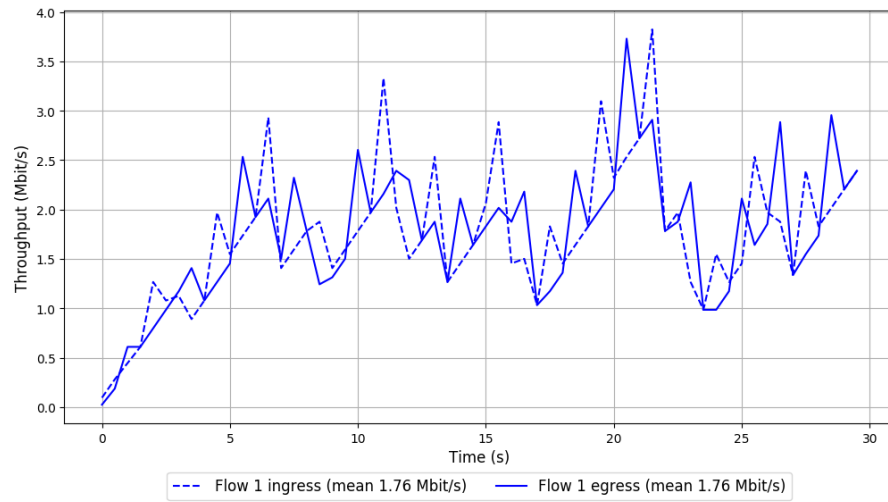
-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 119.103 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-16 02:12:57

End at: 2018-01-16 02:13:27

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 117.935 ms

Loss rate: 0.41%

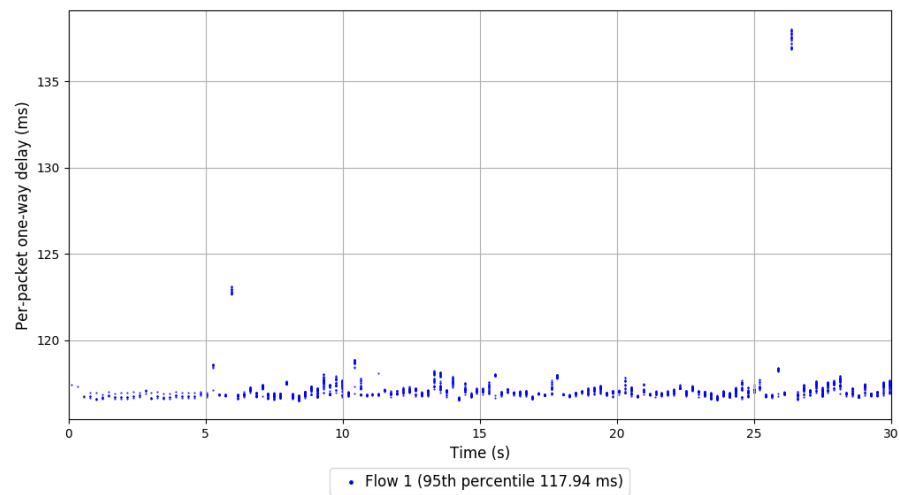
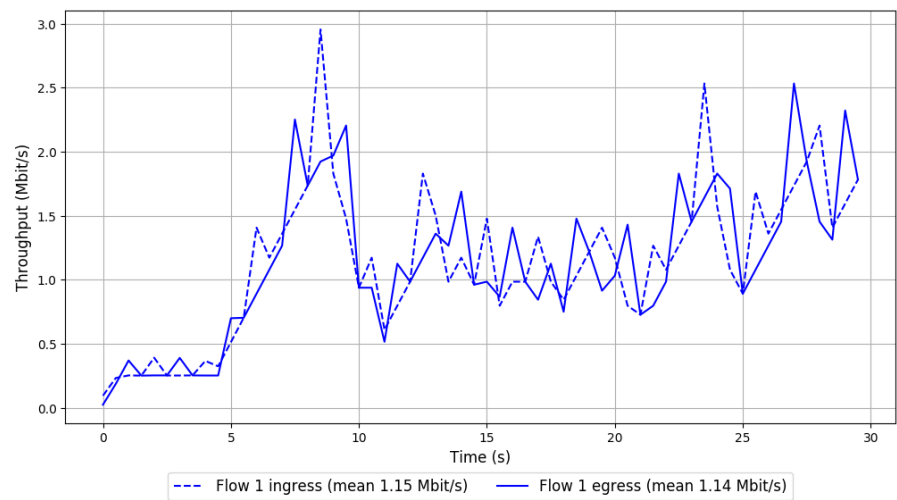
-- Flow 1:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 117.935 ms

Loss rate: 0.41%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-16 02:25:12

End at: 2018-01-16 02:25:42

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 119.924 ms

Loss rate: 1.19%

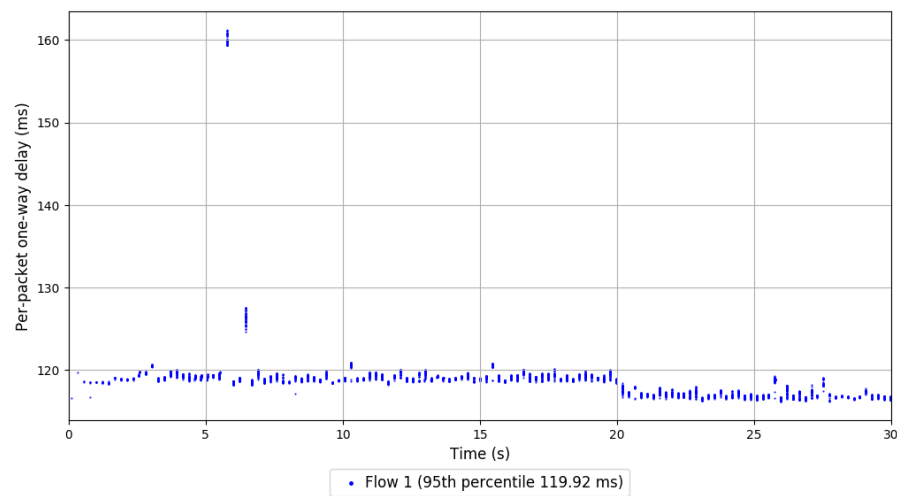
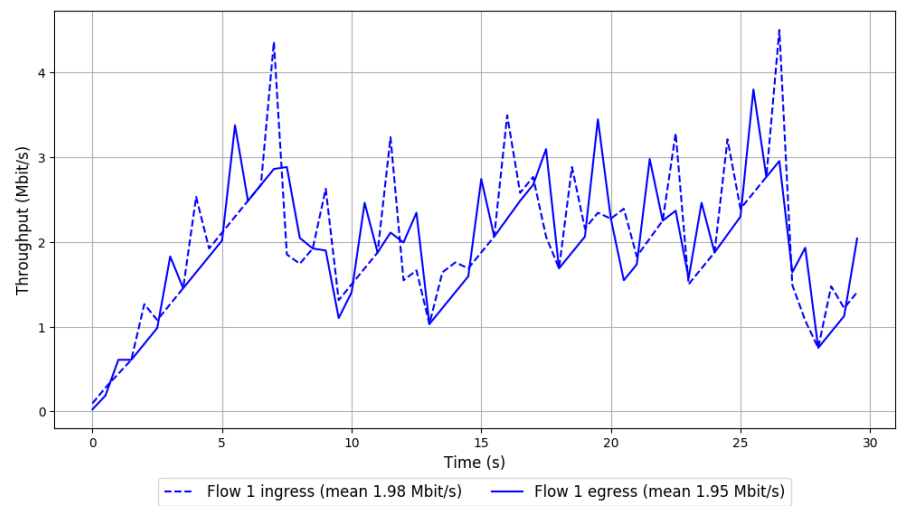
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 119.924 ms

Loss rate: 1.19%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-16 02:37:17

End at: 2018-01-16 02:37:47

Below is generated by plot.py at 2018-01-16 03:40:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 118.696 ms

Loss rate: 2.33%

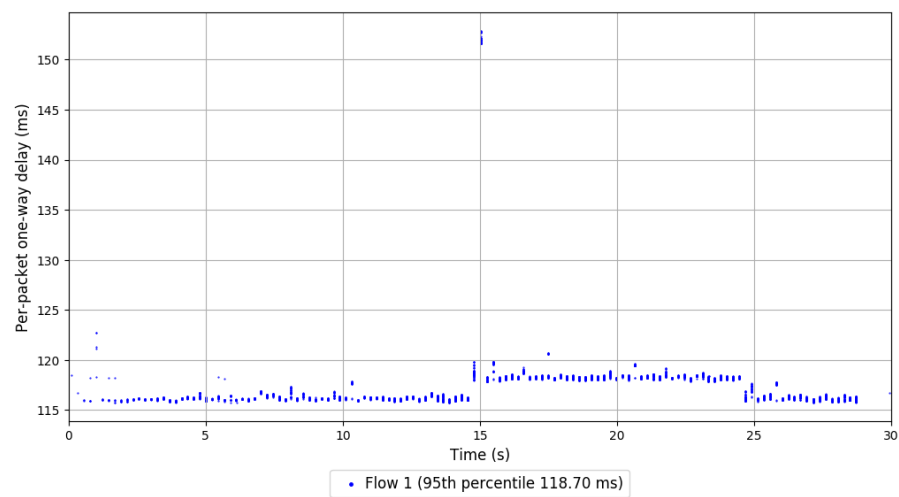
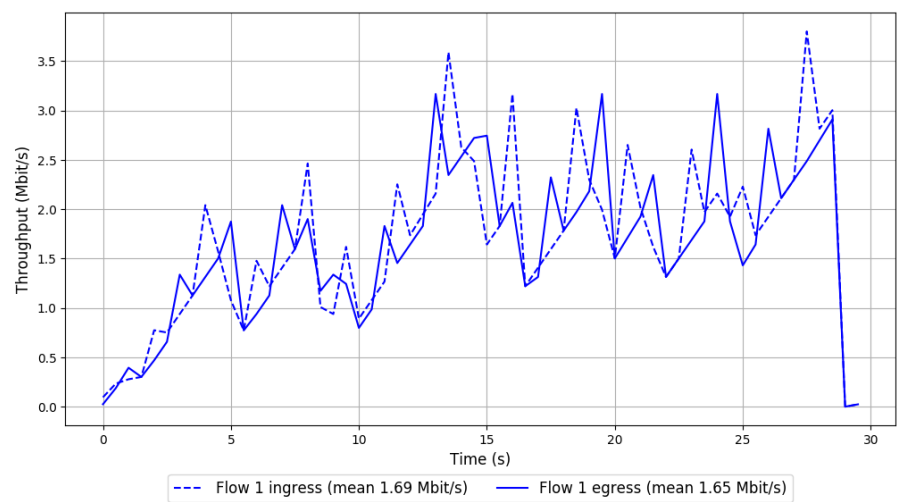
-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 118.696 ms

Loss rate: 2.33%

Run 10: Report of LEDBAT — Data Link

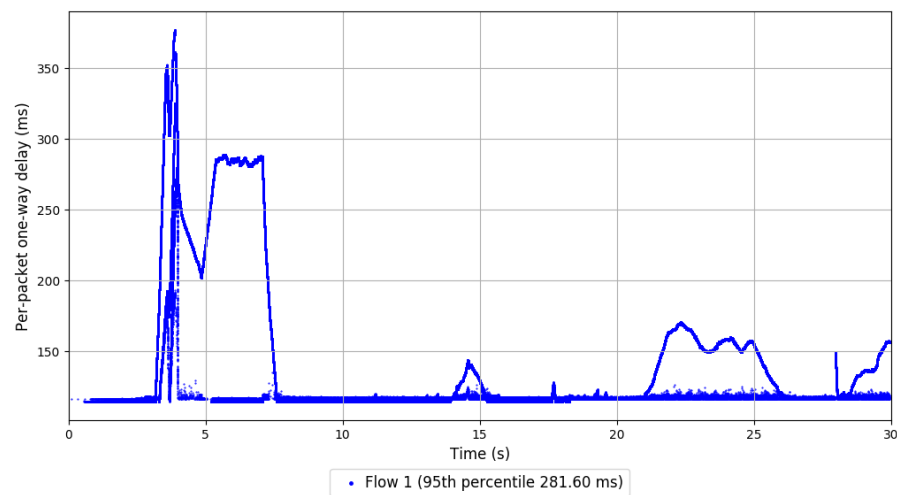
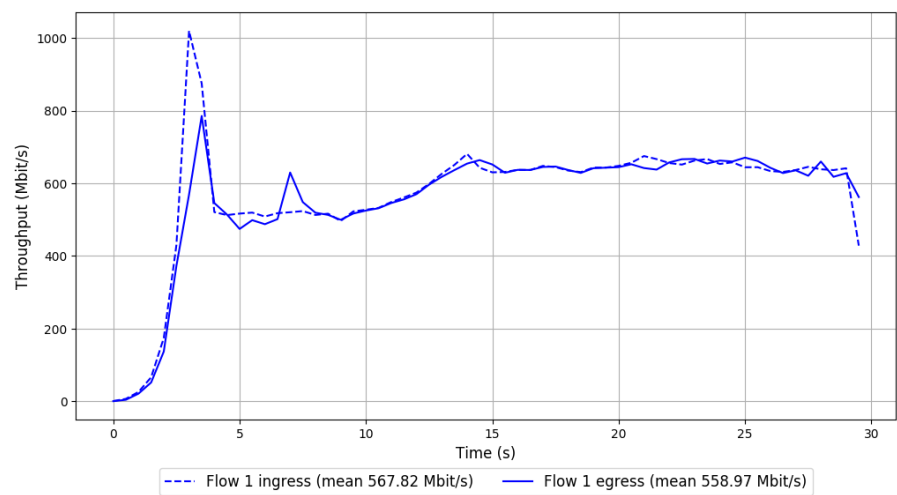


```
Run 1: Statistics of PCC

Start at: 2018-01-16 00:47:13
End at: 2018-01-16 00:47:43

# Below is generated by plot.py at 2018-01-16 03:48:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.97 Mbit/s
95th percentile per-packet one-way delay: 281.602 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 558.97 Mbit/s
95th percentile per-packet one-way delay: 281.602 ms
Loss rate: 1.56%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 00:59:40

End at: 2018-01-16 01:00:10

Below is generated by plot.py at 2018-01-16 03:48:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 461.27 Mbit/s

95th percentile per-packet one-way delay: 253.431 ms

Loss rate: 4.04%

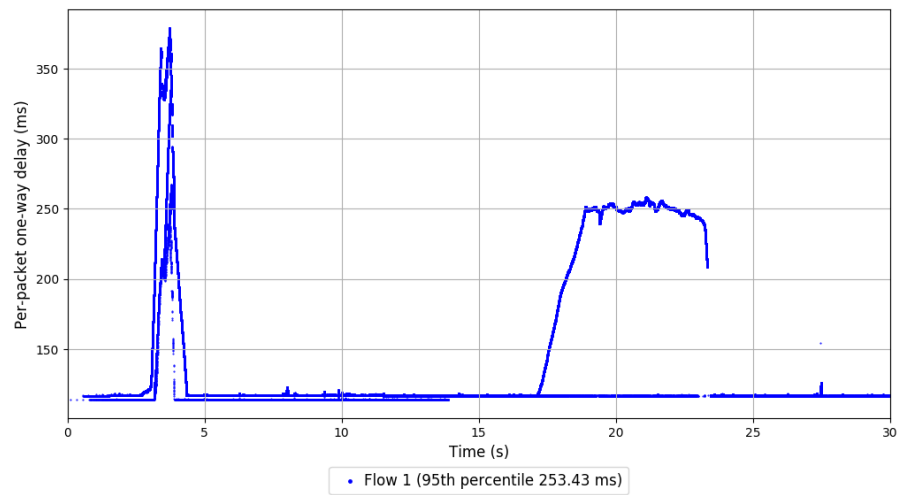
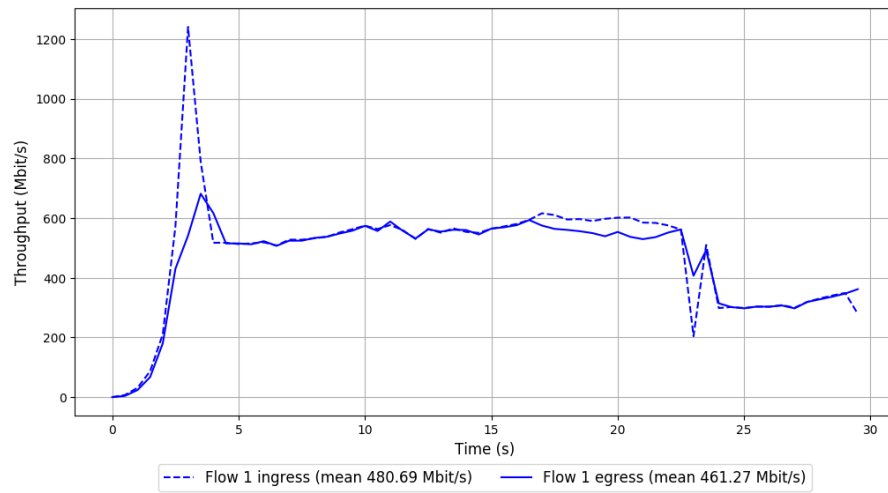
-- Flow 1:

Average throughput: 461.27 Mbit/s

95th percentile per-packet one-way delay: 253.431 ms

Loss rate: 4.04%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-16 01:11:58

End at: 2018-01-16 01:12:28

Below is generated by plot.py at 2018-01-16 03:48:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.68 Mbit/s

95th percentile per-packet one-way delay: 170.450 ms

Loss rate: 3.10%

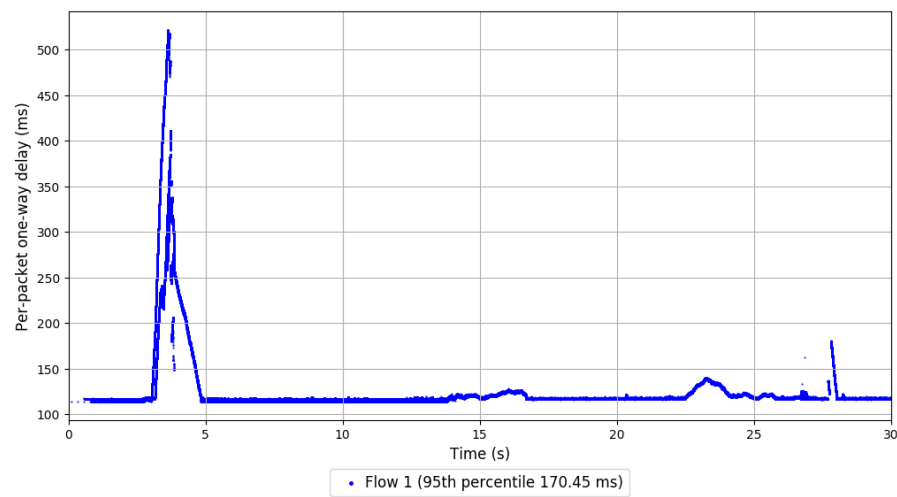
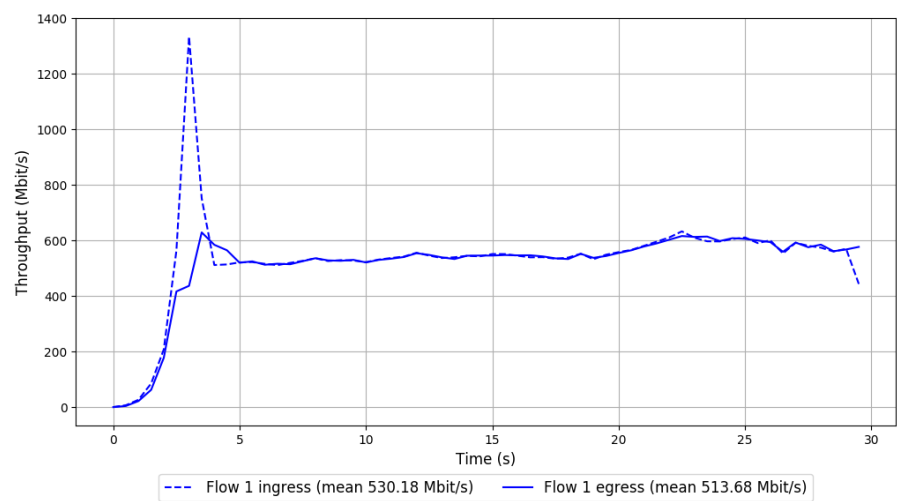
-- Flow 1:

Average throughput: 513.68 Mbit/s

95th percentile per-packet one-way delay: 170.450 ms

Loss rate: 3.10%

Run 3: Report of PCC — Data Link

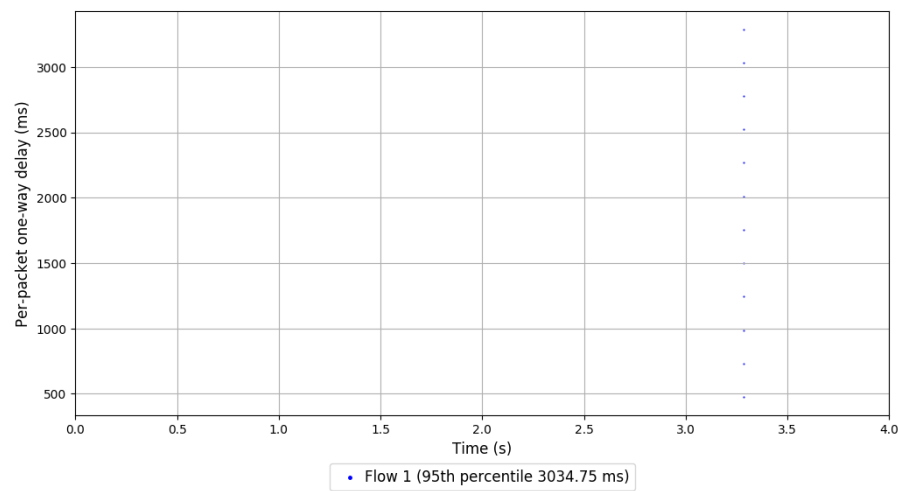
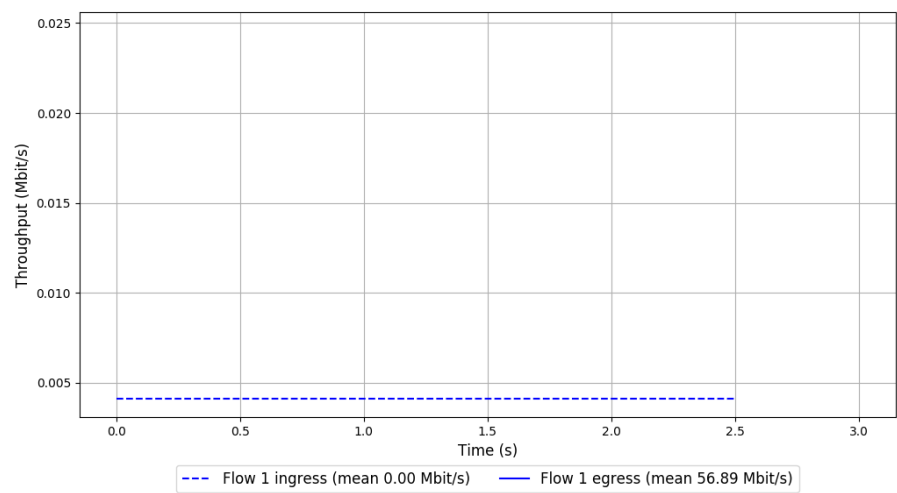


Run 4: Statistics of PCC

Start at: 2018-01-16 01:24:25

End at: 2018-01-16 01:24:55

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-16 01:36:39

End at: 2018-01-16 01:37:09

Below is generated by plot.py at 2018-01-16 03:48:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.82 Mbit/s

95th percentile per-packet one-way delay: 238.217 ms

Loss rate: 2.31%

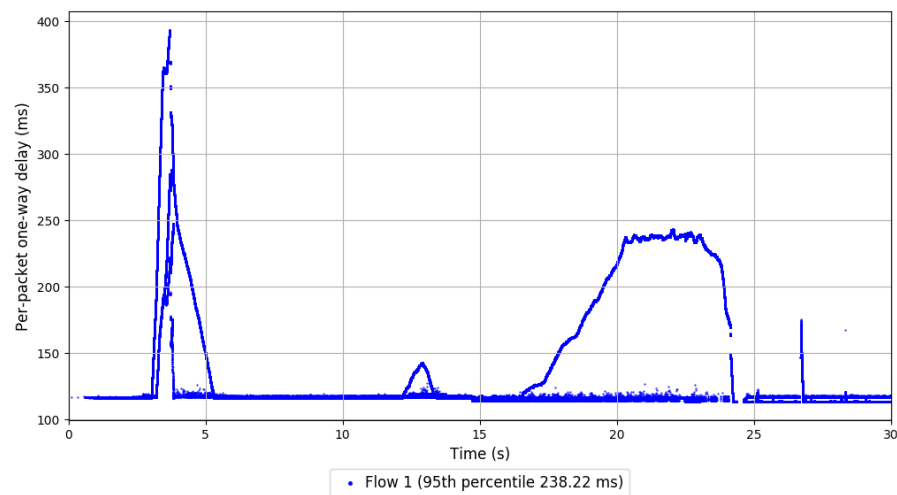
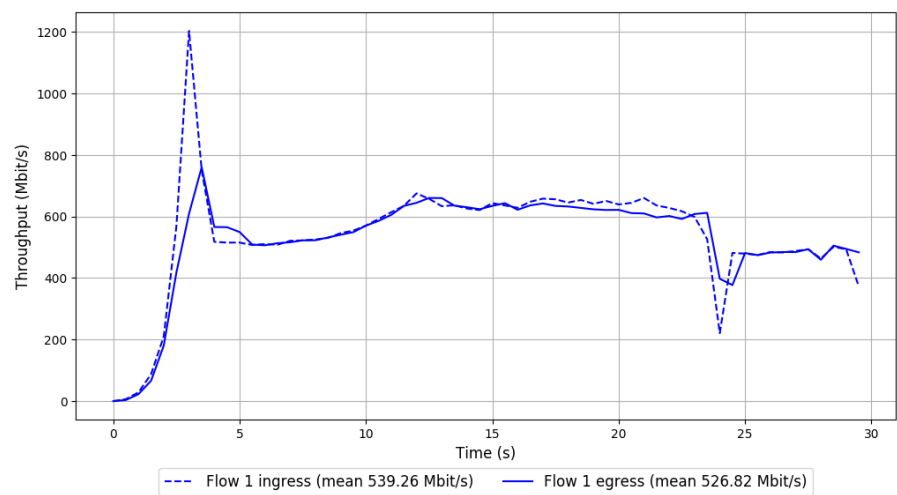
-- Flow 1:

Average throughput: 526.82 Mbit/s

95th percentile per-packet one-way delay: 238.217 ms

Loss rate: 2.31%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-16 01:48:55

End at: 2018-01-16 01:49:25

Below is generated by plot.py at 2018-01-16 03:48:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 495.31 Mbit/s

95th percentile per-packet one-way delay: 252.181 ms

Loss rate: 2.11%

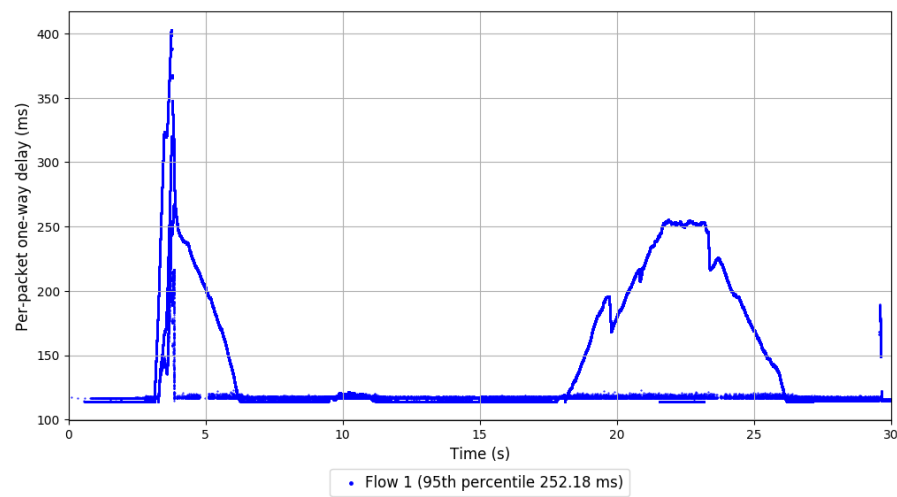
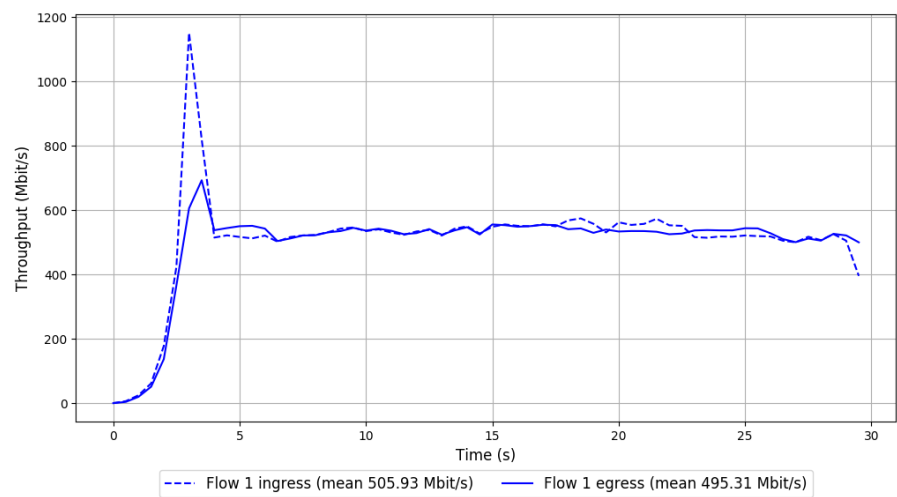
-- Flow 1:

Average throughput: 495.31 Mbit/s

95th percentile per-packet one-way delay: 252.181 ms

Loss rate: 2.11%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-16 02:01:19

End at: 2018-01-16 02:01:49

Below is generated by plot.py at 2018-01-16 03:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.11 Mbit/s

95th percentile per-packet one-way delay: 217.392 ms

Loss rate: 2.07%

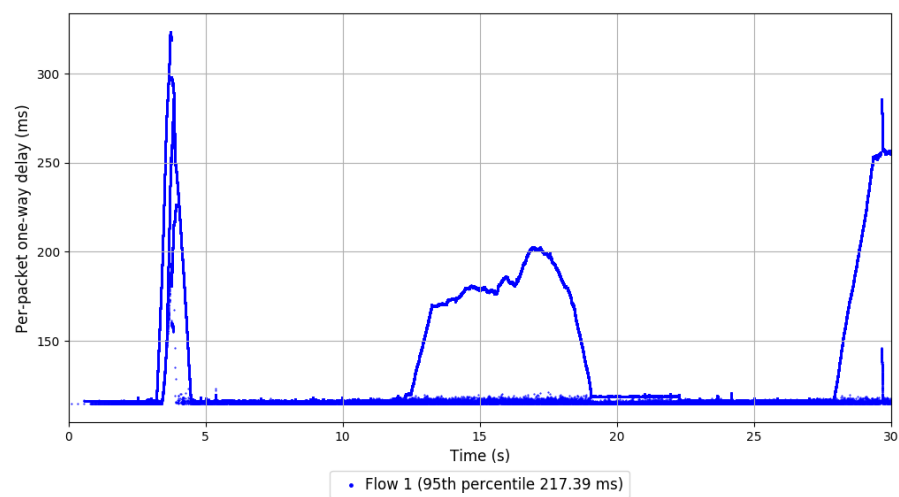
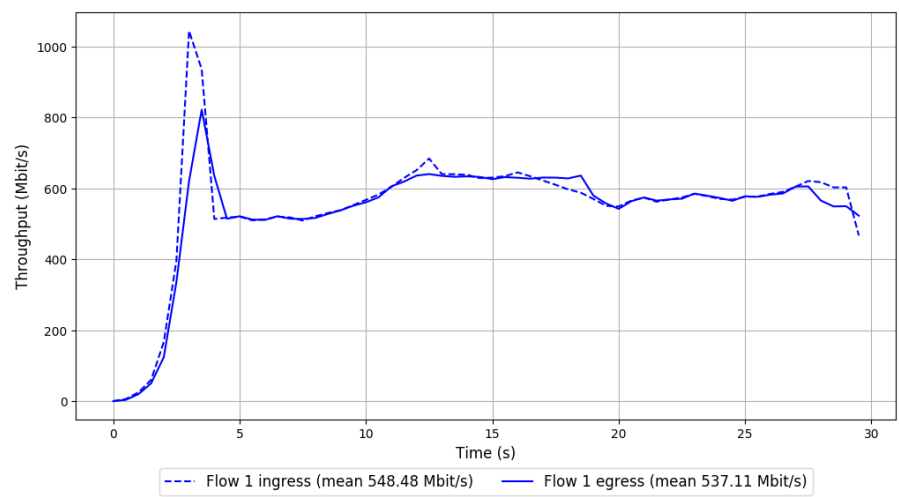
-- Flow 1:

Average throughput: 537.11 Mbit/s

95th percentile per-packet one-way delay: 217.392 ms

Loss rate: 2.07%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-16 02:13:37

End at: 2018-01-16 02:14:07

Below is generated by plot.py at 2018-01-16 03:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 459.41 Mbit/s

95th percentile per-packet one-way delay: 199.148 ms

Loss rate: 1.67%

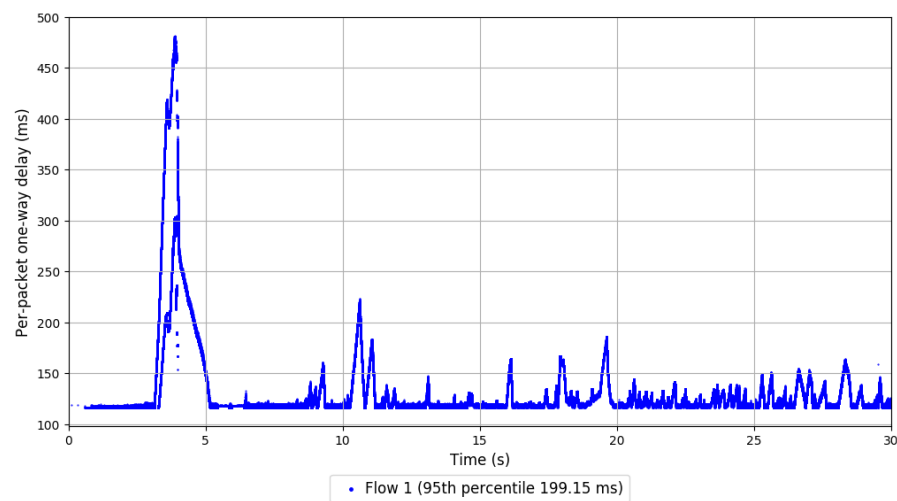
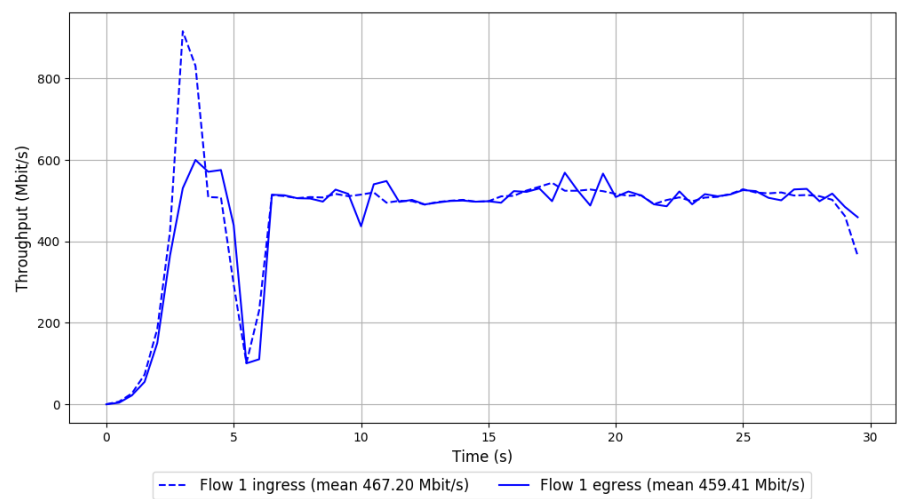
-- Flow 1:

Average throughput: 459.41 Mbit/s

95th percentile per-packet one-way delay: 199.148 ms

Loss rate: 1.67%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-16 02:25:53

End at: 2018-01-16 02:26:23

Below is generated by plot.py at 2018-01-16 03:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.90 Mbit/s

95th percentile per-packet one-way delay: 192.766 ms

Loss rate: 0.49%

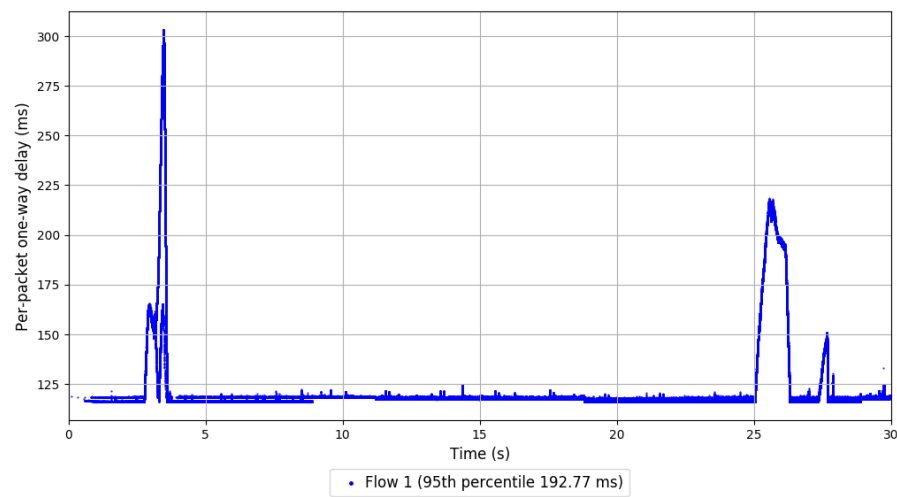
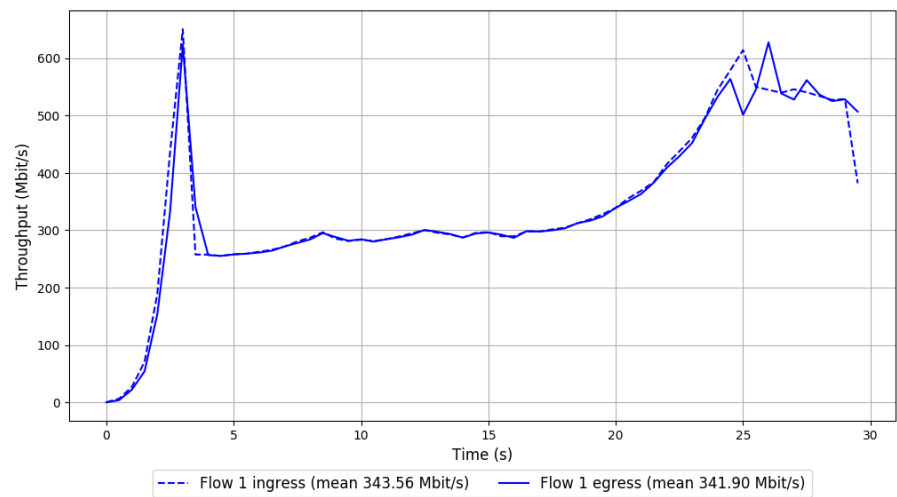
-- Flow 1:

Average throughput: 341.90 Mbit/s

95th percentile per-packet one-way delay: 192.766 ms

Loss rate: 0.49%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-16 02:37:58

End at: 2018-01-16 02:38:28

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.22 Mbit/s

95th percentile per-packet one-way delay: 137.712 ms

Loss rate: 0.21%

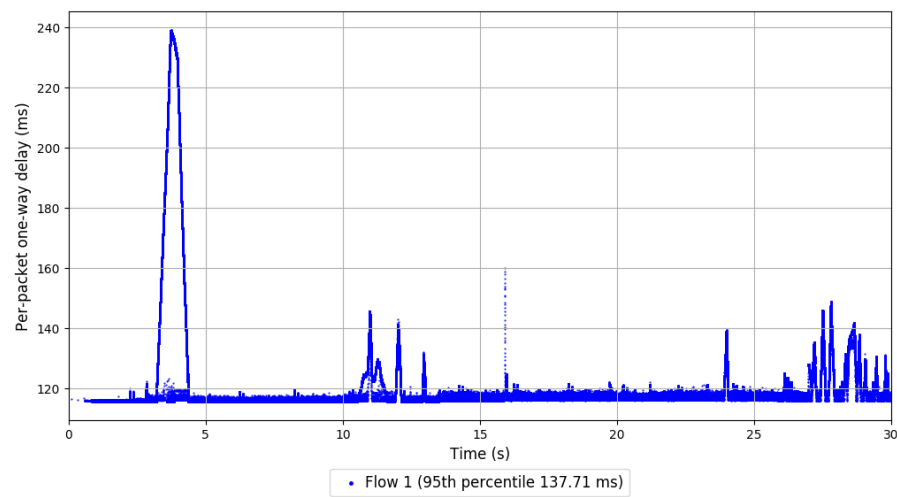
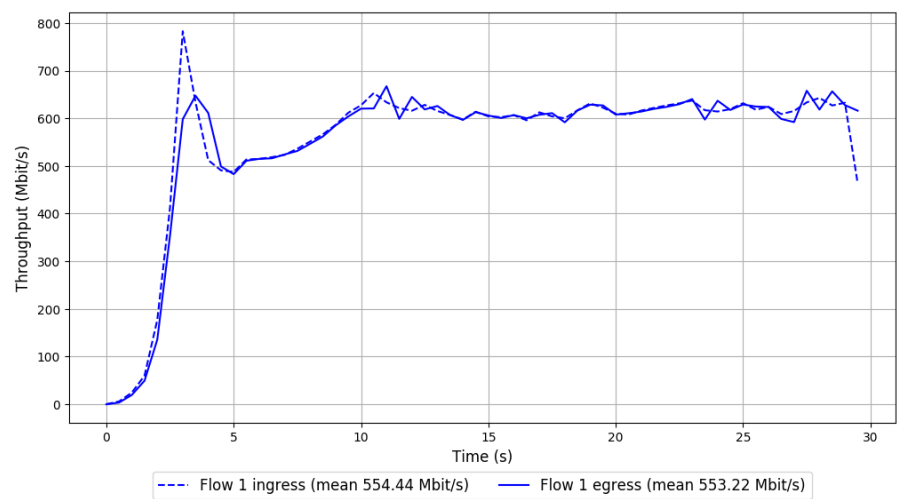
-- Flow 1:

Average throughput: 553.22 Mbit/s

95th percentile per-packet one-way delay: 137.712 ms

Loss rate: 0.21%

Run 10: Report of PCC — Data Link

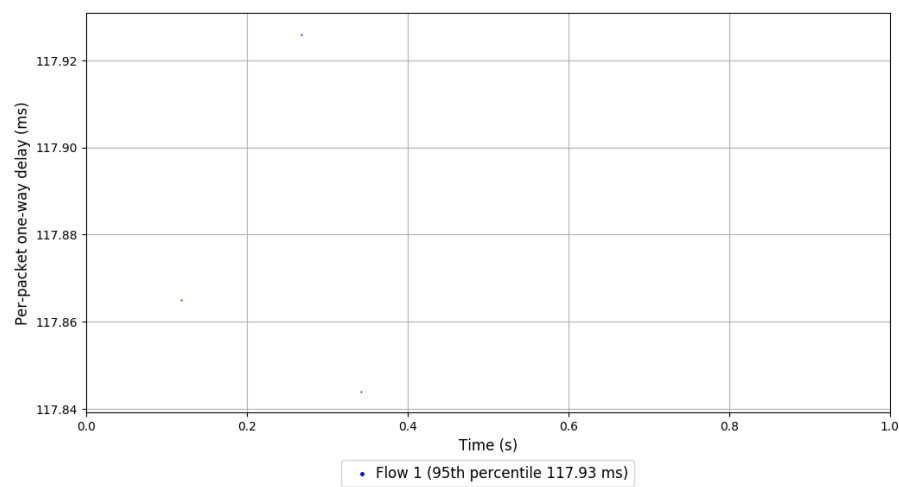
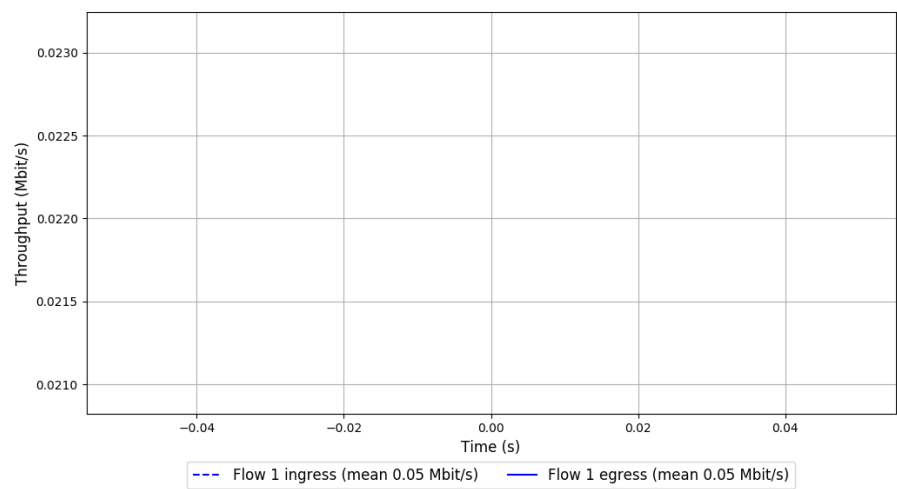


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 00:45:52

End at: 2018-01-16 00:46:22

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 00:58:15

End at: 2018-01-16 00:58:45

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.73 Mbit/s

95th percentile per-packet one-way delay: 114.987 ms

Loss rate: 0.00%

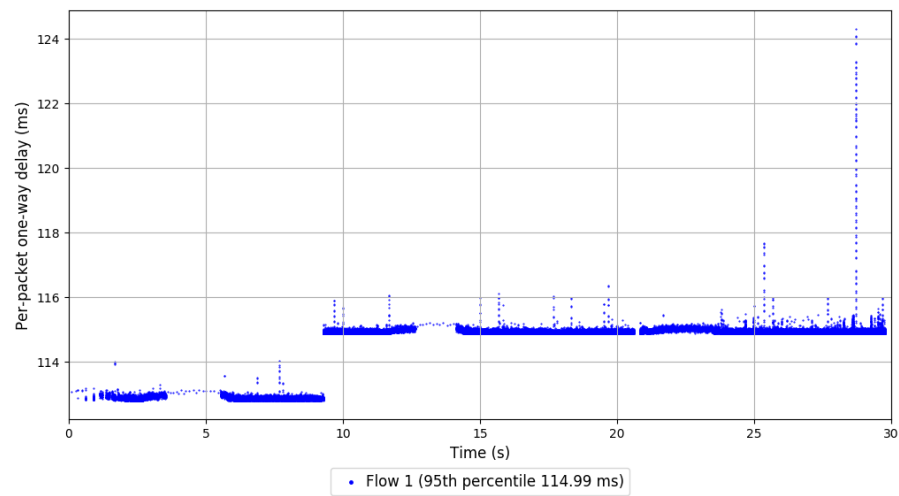
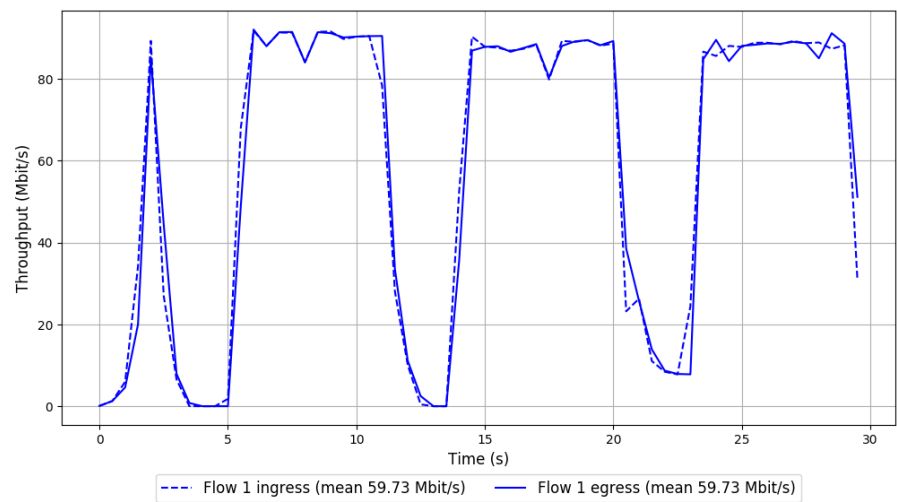
-- Flow 1:

Average throughput: 59.73 Mbit/s

95th percentile per-packet one-way delay: 114.987 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 01:10:32

End at: 2018-01-16 01:11:02

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 116.662 ms

Loss rate: 0.00%

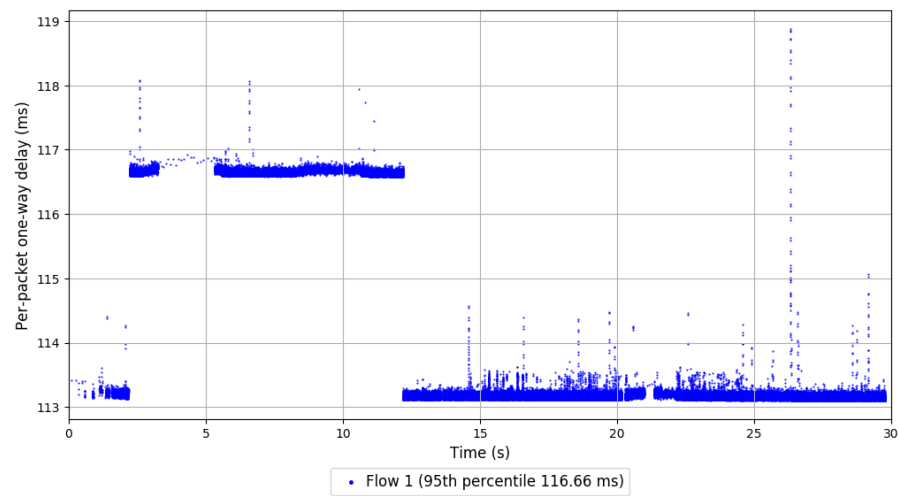
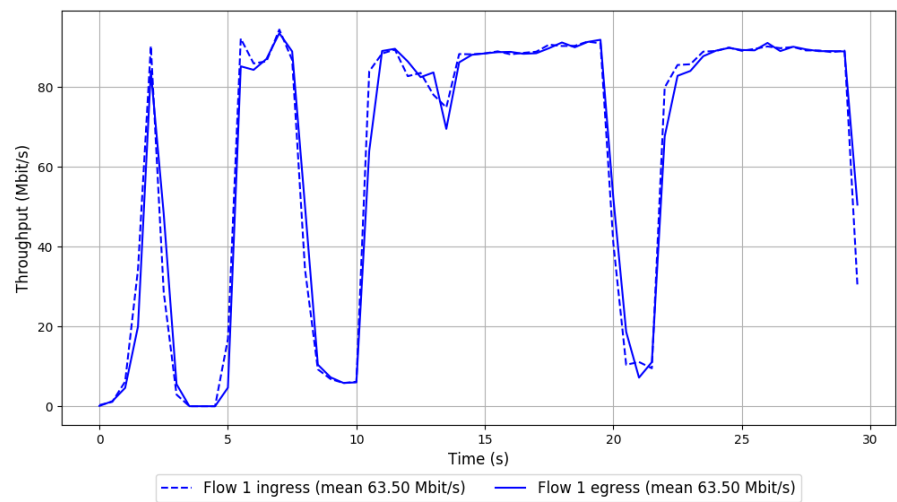
-- Flow 1:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 116.662 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 01:23:00

End at: 2018-01-16 01:23:30

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 115.944 ms

Loss rate: 0.00%

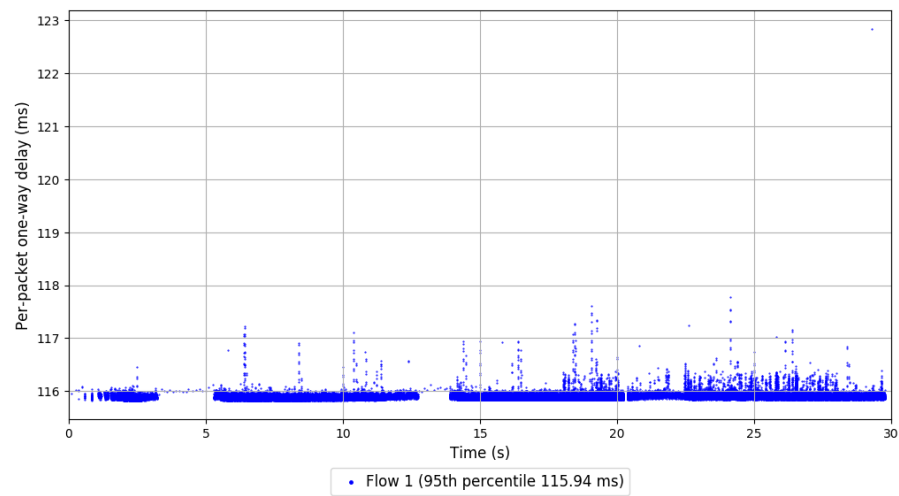
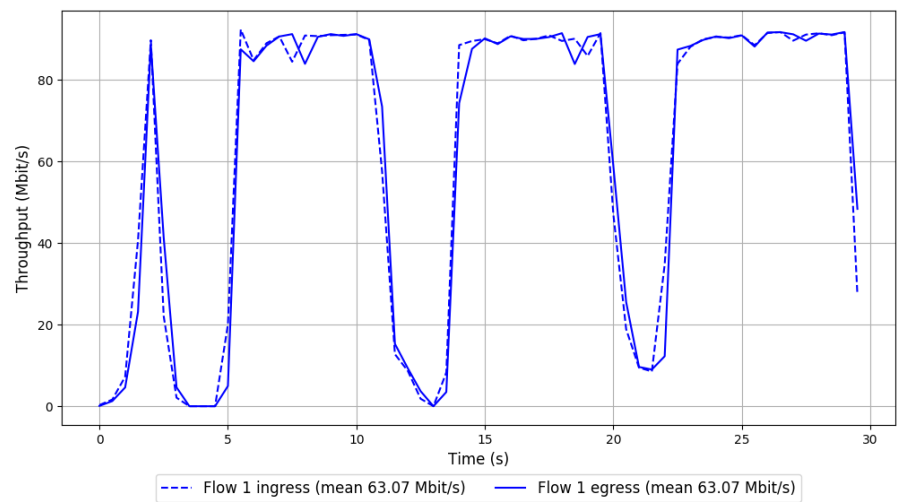
-- Flow 1:

Average throughput: 63.07 Mbit/s

95th percentile per-packet one-way delay: 115.944 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 01:35:14

End at: 2018-01-16 01:35:44

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 116.213 ms

Loss rate: 0.00%

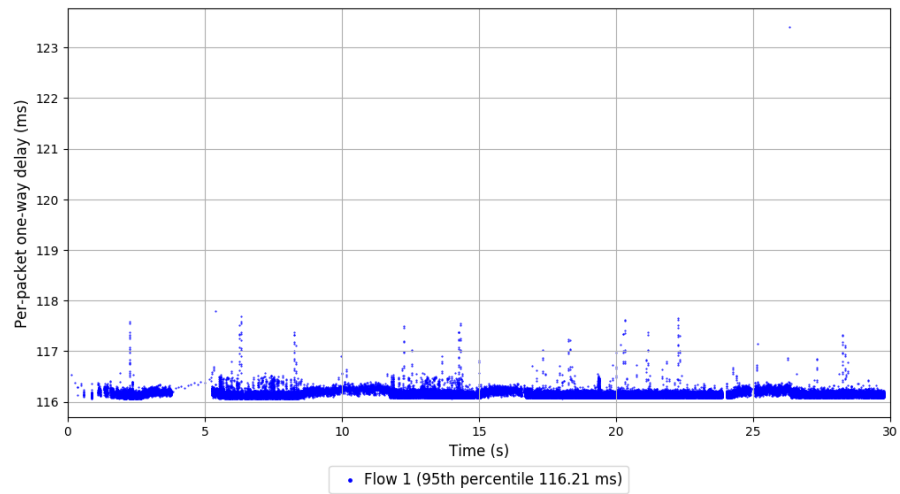
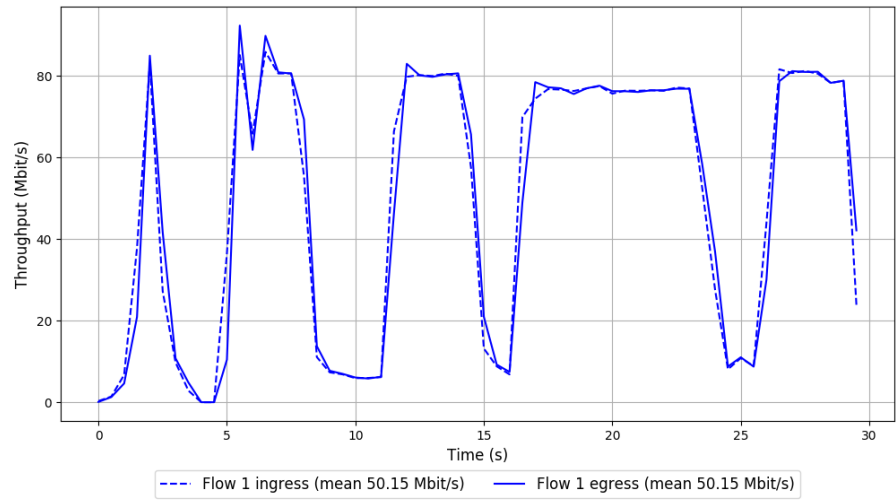
-- Flow 1:

Average throughput: 50.15 Mbit/s

95th percentile per-packet one-way delay: 116.213 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 01:47:29

End at: 2018-01-16 01:47:59

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 115.833 ms

Loss rate: 0.00%

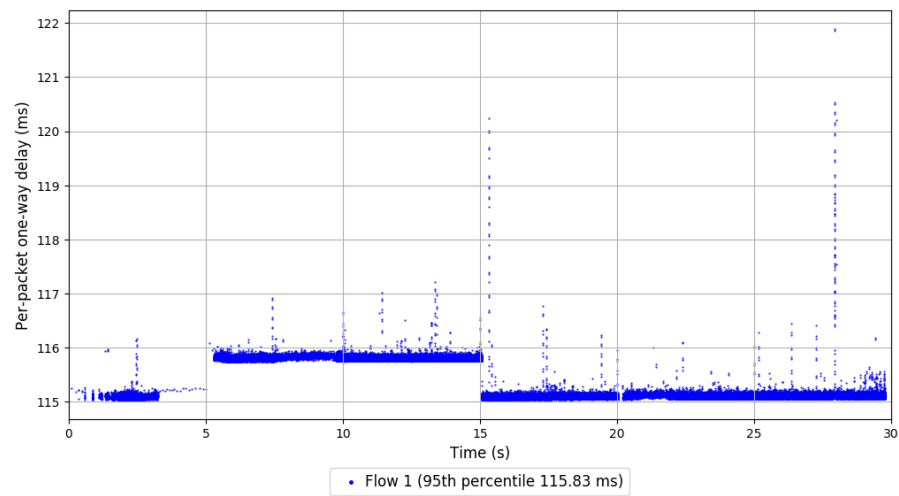
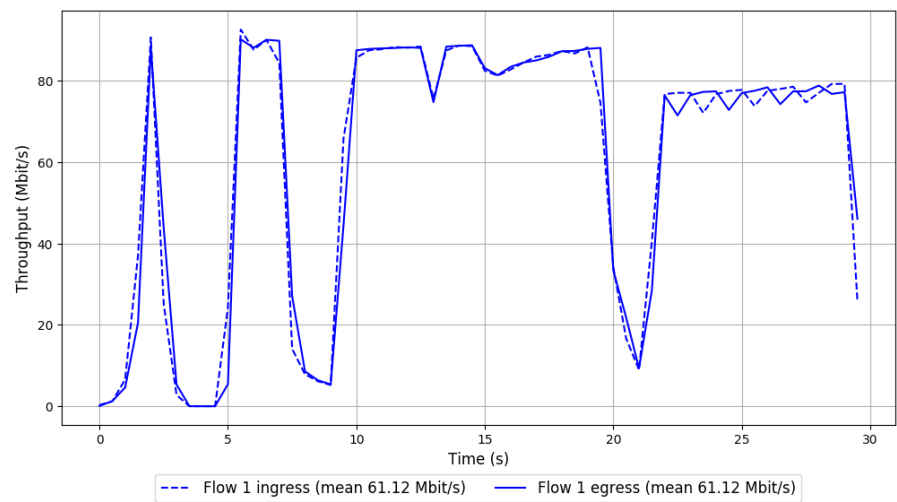
-- Flow 1:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 115.833 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 01:59:54

End at: 2018-01-16 02:00:25

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.03 Mbit/s

95th percentile per-packet one-way delay: 118.325 ms

Loss rate: 0.01%

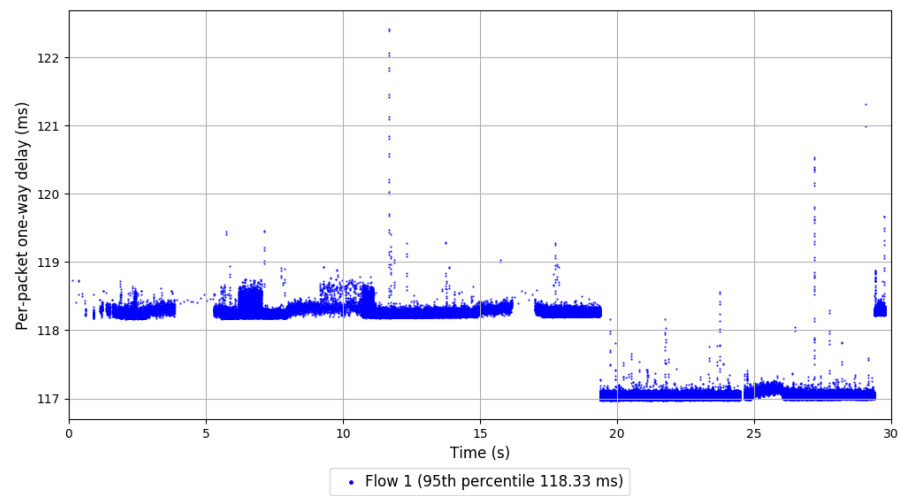
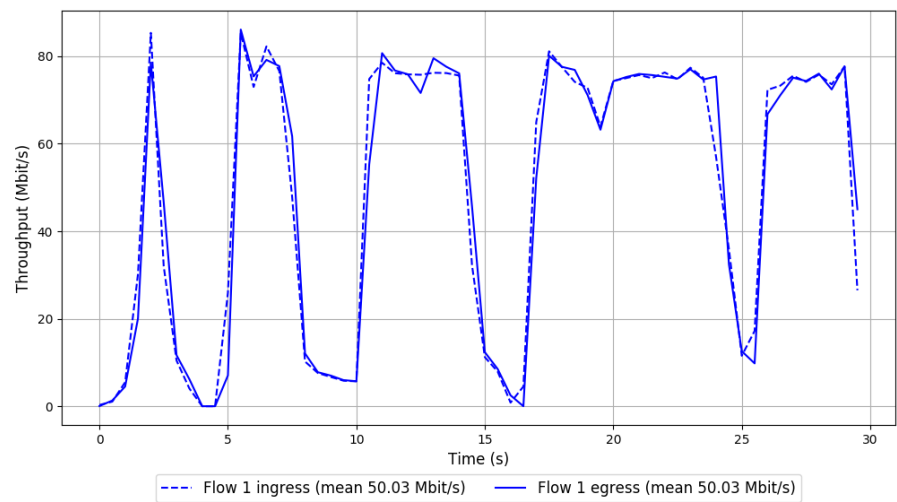
-- Flow 1:

Average throughput: 50.03 Mbit/s

95th percentile per-packet one-way delay: 118.325 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-16 02:12:11

End at: 2018-01-16 02:12:41

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.39 Mbit/s

95th percentile per-packet one-way delay: 118.808 ms

Loss rate: 0.00%

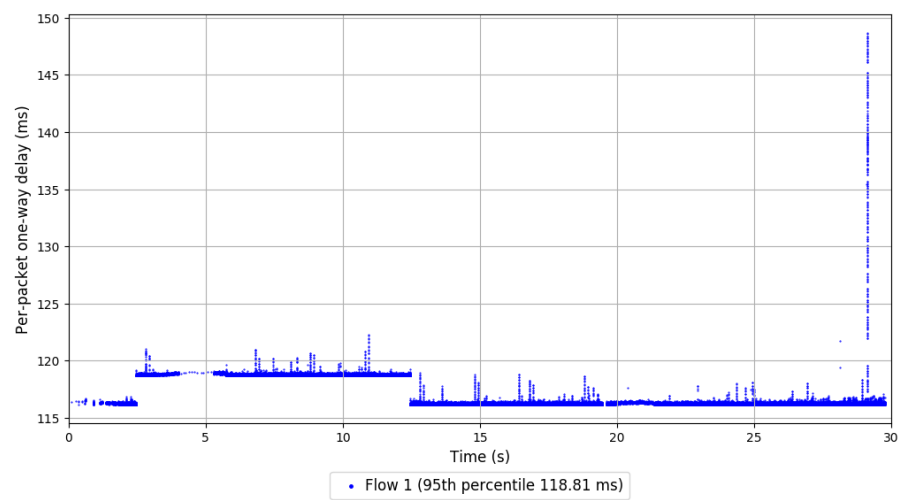
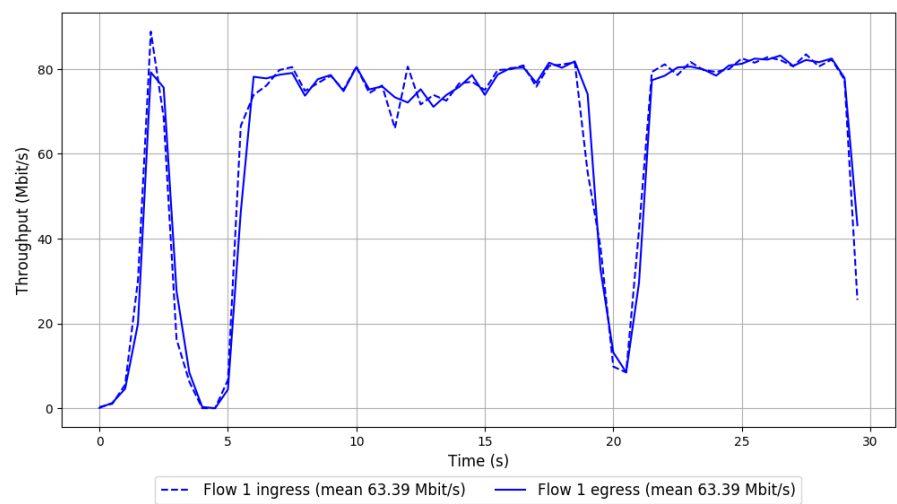
-- Flow 1:

Average throughput: 63.39 Mbit/s

95th percentile per-packet one-way delay: 118.808 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 02:24:27

End at: 2018-01-16 02:24:57

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.40 Mbit/s

95th percentile per-packet one-way delay: 117.393 ms

Loss rate: 0.00%

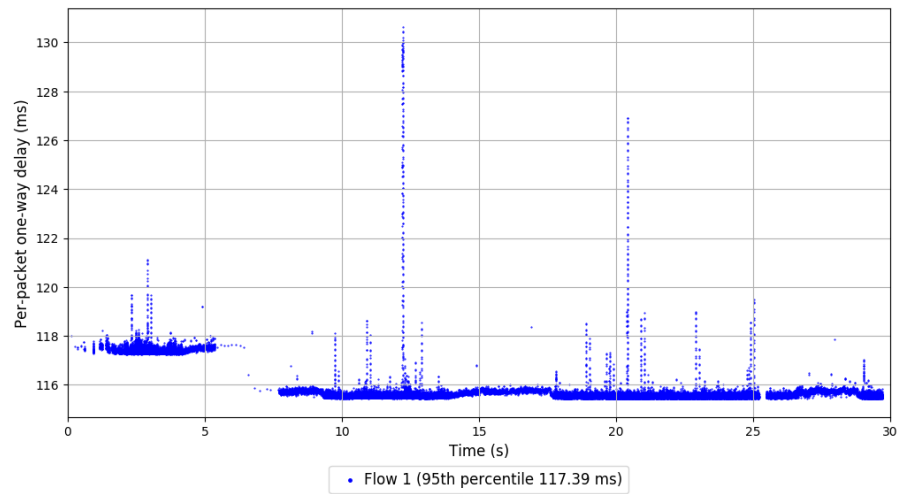
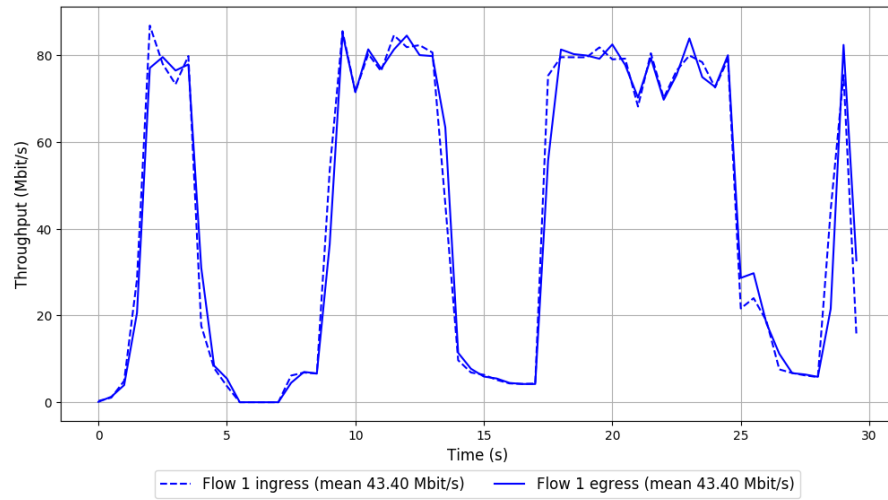
-- Flow 1:

Average throughput: 43.40 Mbit/s

95th percentile per-packet one-way delay: 117.393 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 02:36:33

End at: 2018-01-16 02:37:03

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 117.028 ms

Loss rate: 0.00%

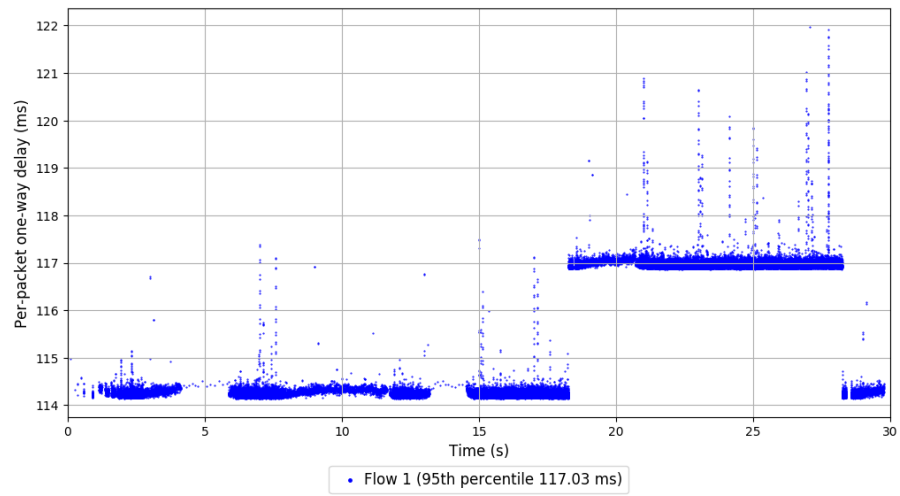
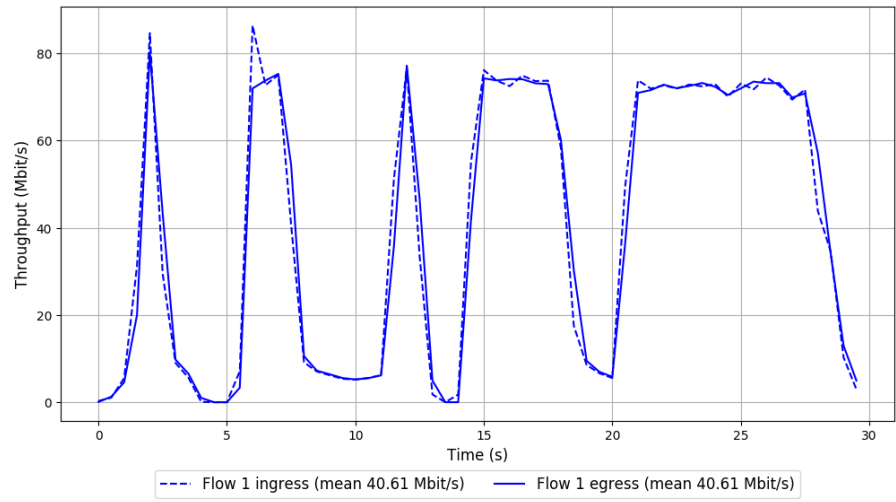
-- Flow 1:

Average throughput: 40.61 Mbit/s

95th percentile per-packet one-way delay: 117.028 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

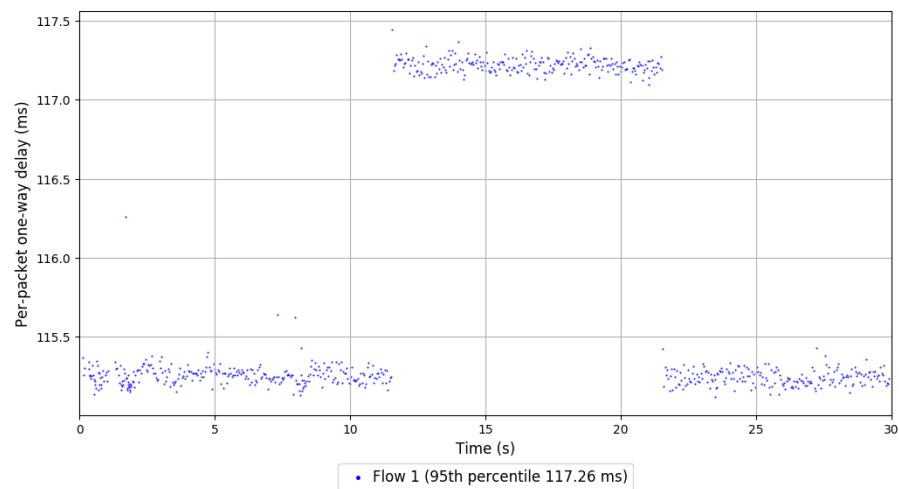
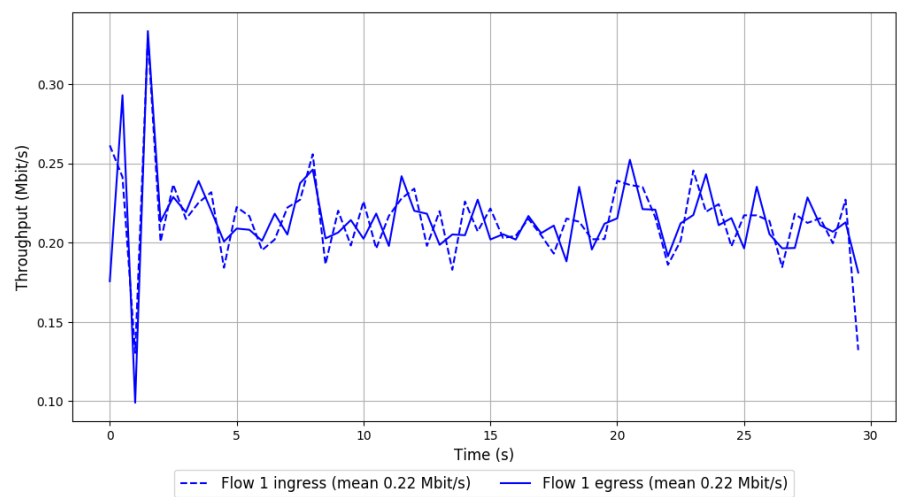


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 00:51:02
End at: 2018-01-16 00:51:32

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 117.264 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

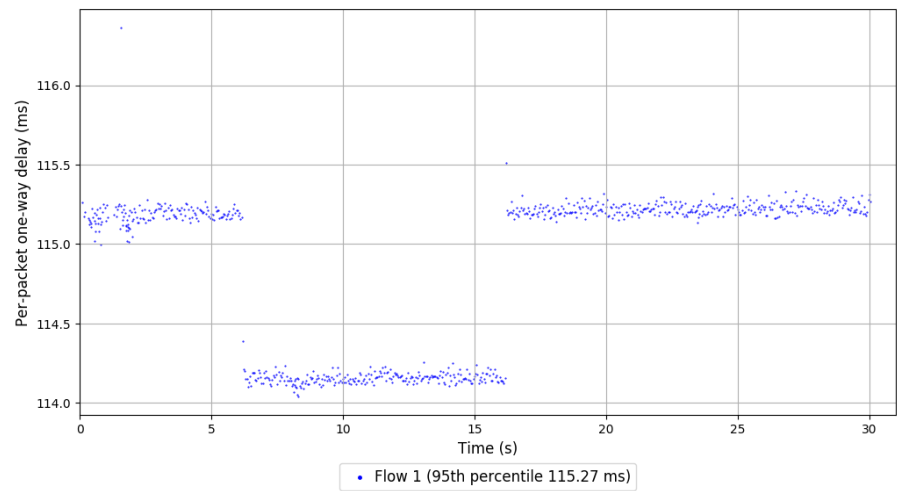
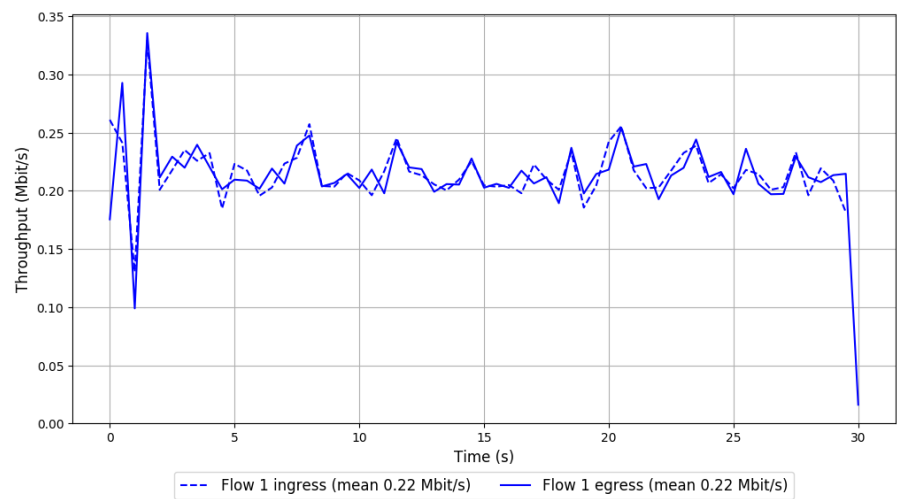


```
Run 2: Statistics of SCReAM

Start at: 2018-01-16 01:03:26
End at: 2018-01-16 01:03:56

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 115.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 115.269 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-16 01:15:43

End at: 2018-01-16 01:16:13

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 117.205 ms

Loss rate: 0.00%

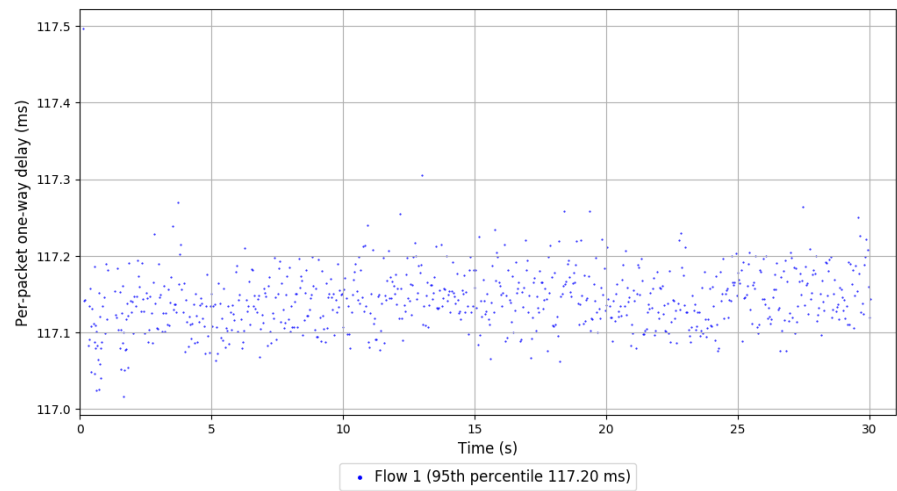
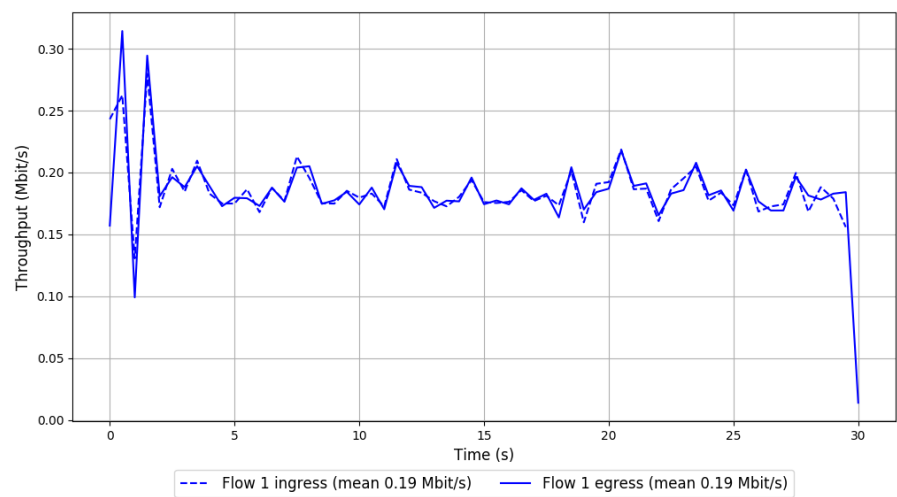
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 117.205 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-16 01:27:51

End at: 2018-01-16 01:28:21

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.088 ms

Loss rate: 0.00%

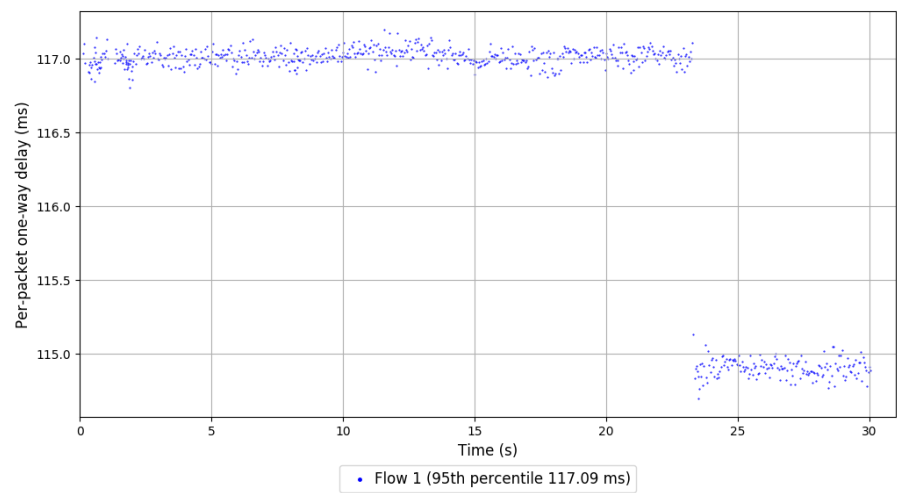
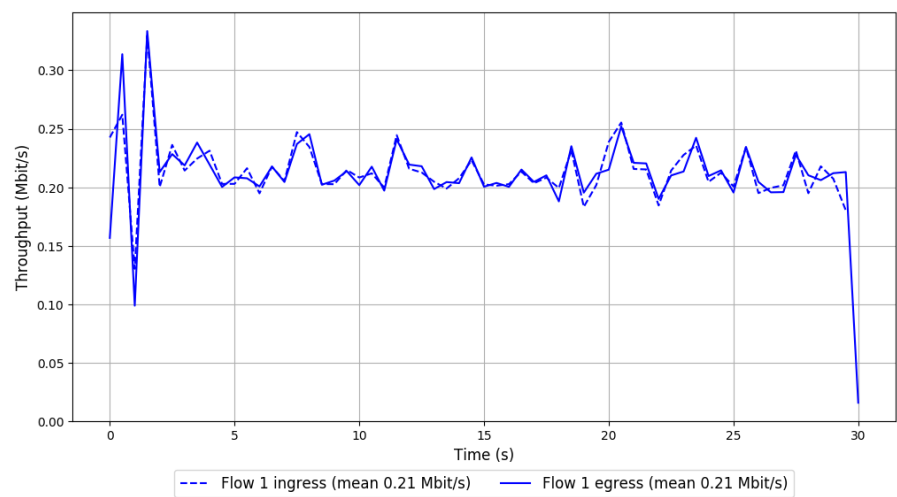
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 117.088 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-16 01:40:26

End at: 2018-01-16 01:40:56

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 119.019 ms

Loss rate: 0.00%

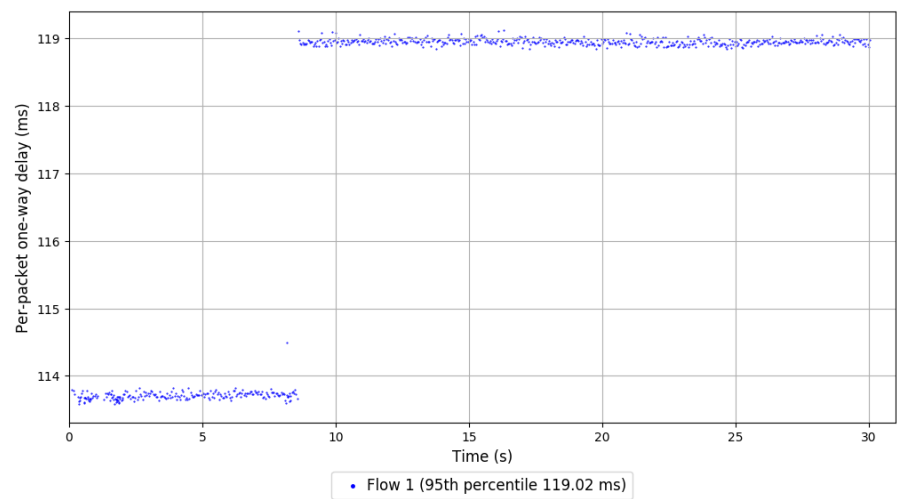
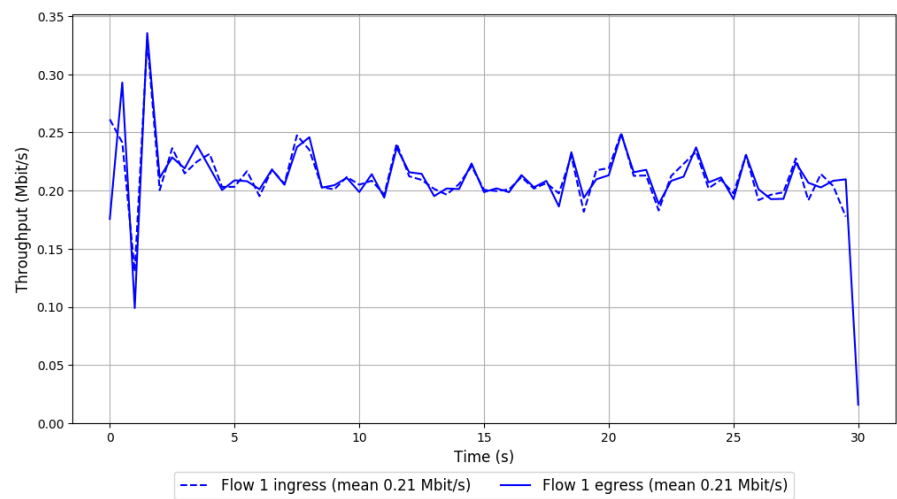
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 119.019 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-16 01:52:41

End at: 2018-01-16 01:53:11

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.611 ms

Loss rate: 0.00%

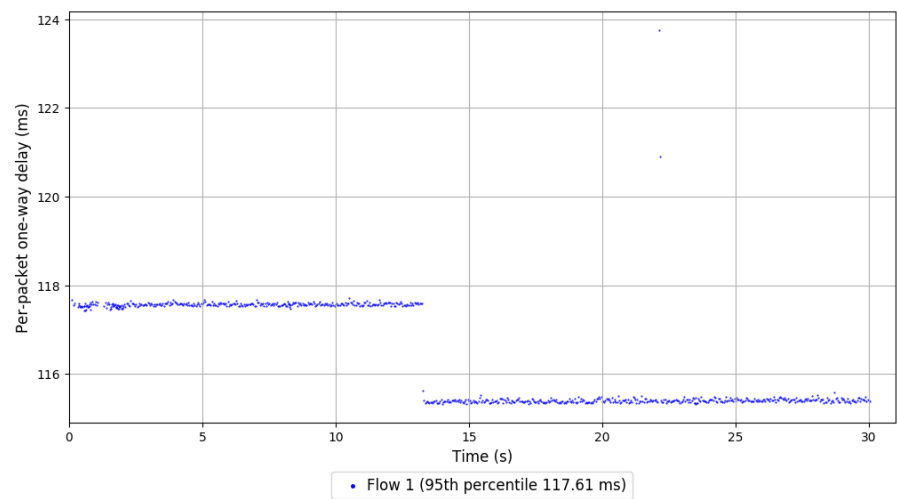
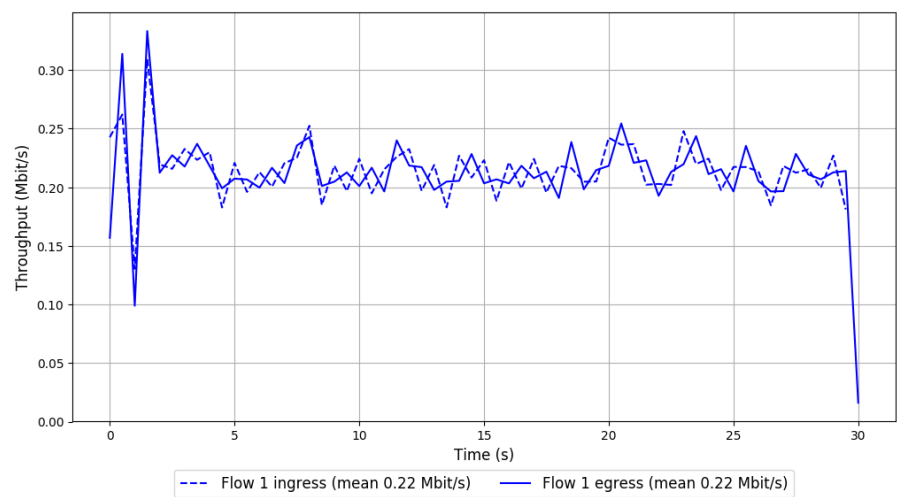
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 117.611 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

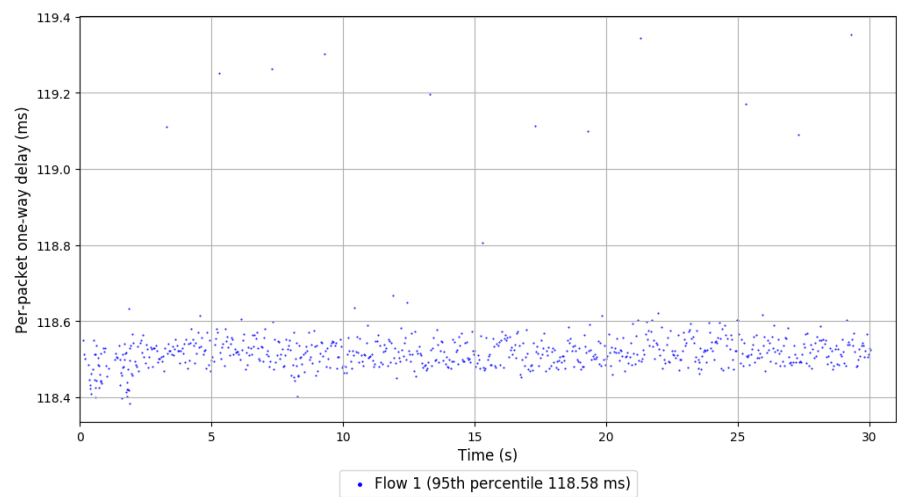
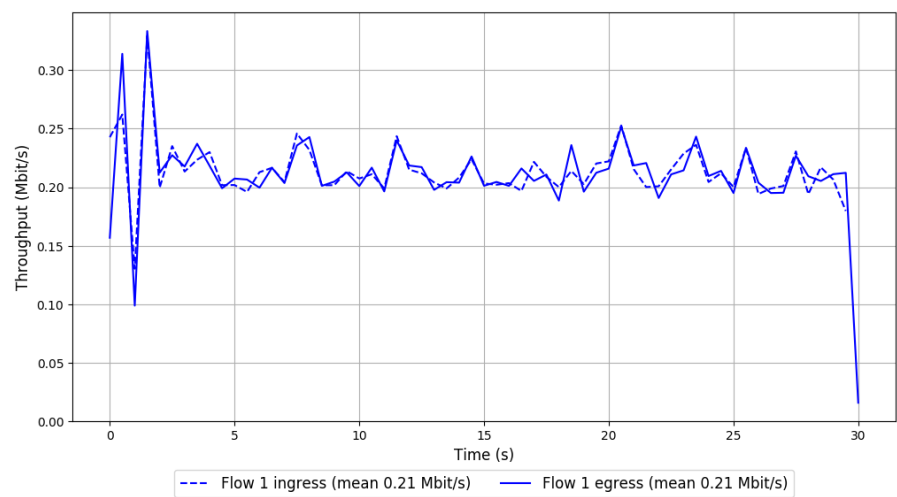


```
Run 7: Statistics of SCReAM

Start at: 2018-01-16 02:05:05
End at: 2018-01-16 02:05:35

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 118.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 118.582 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-16 02:17:24

End at: 2018-01-16 02:17:54

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 118.748 ms

Loss rate: 0.13%

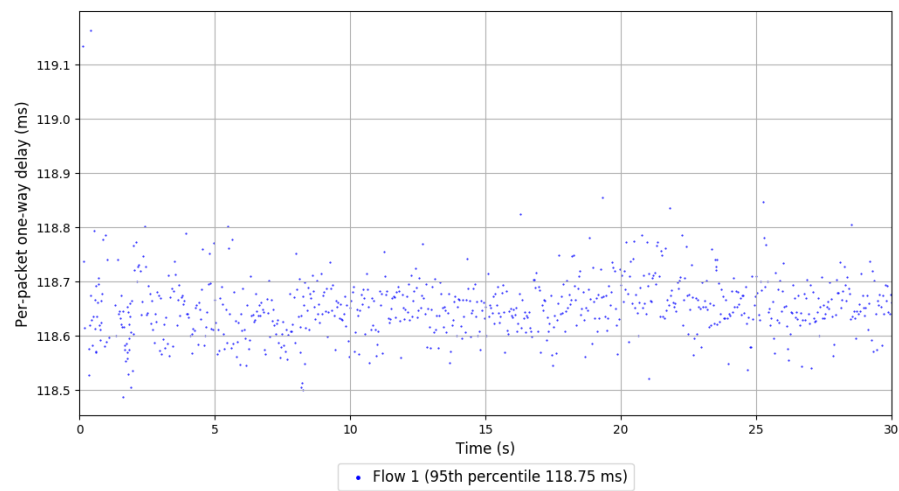
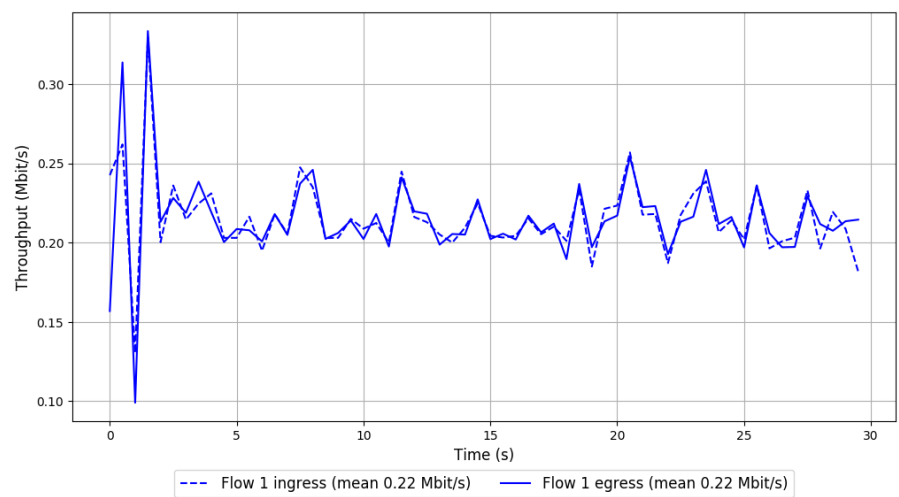
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 118.748 ms

Loss rate: 0.13%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-16 02:29:31

End at: 2018-01-16 02:30:01

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 120.739 ms

Loss rate: 0.00%

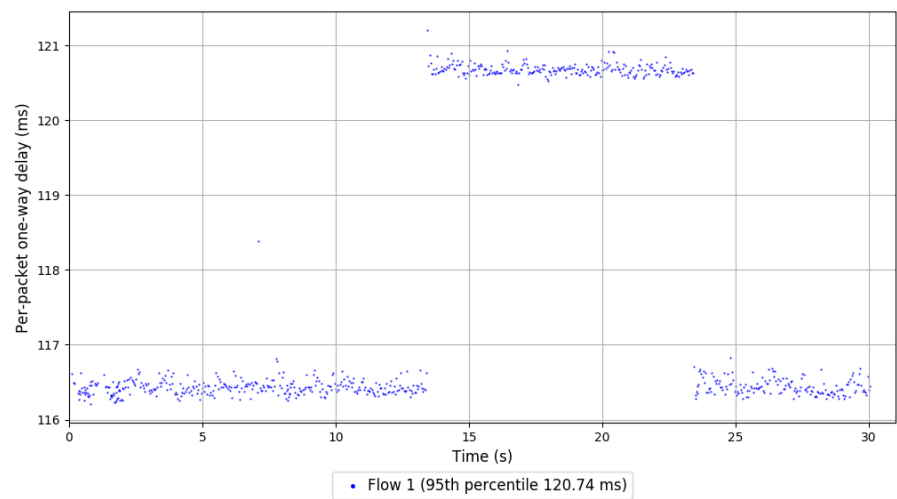
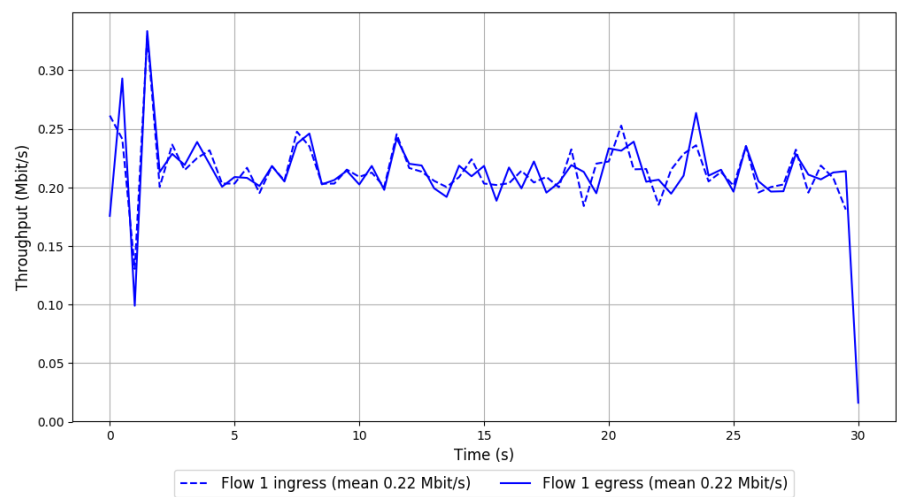
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 120.739 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

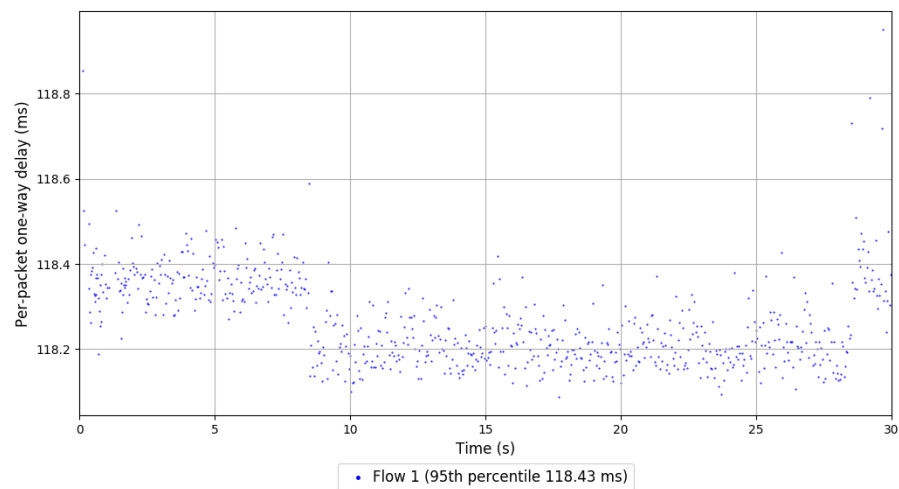
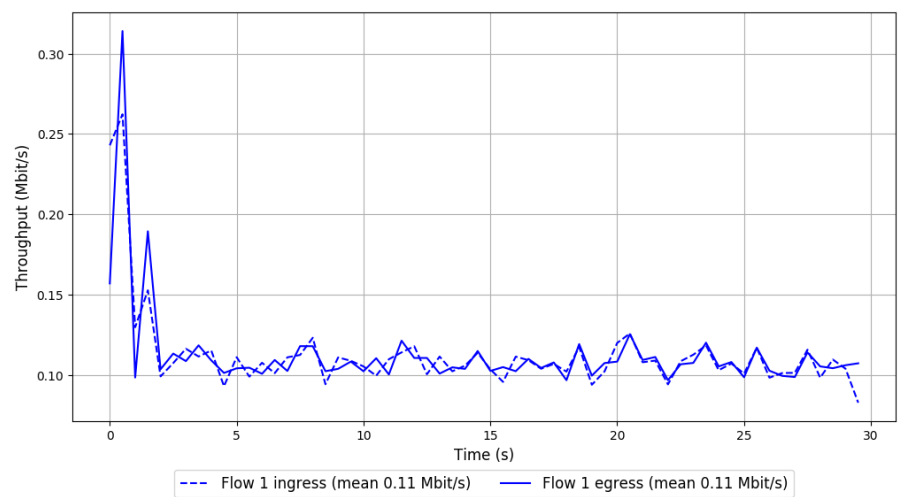


```
Run 10: Statistics of SReAM

Start at: 2018-01-16 02:41:46
End at: 2018-01-16 02:42:16

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 118.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 118.429 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

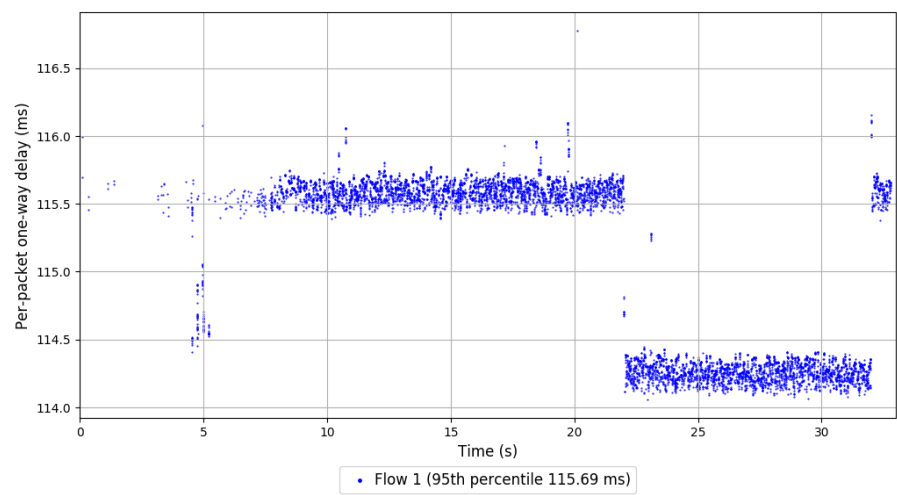
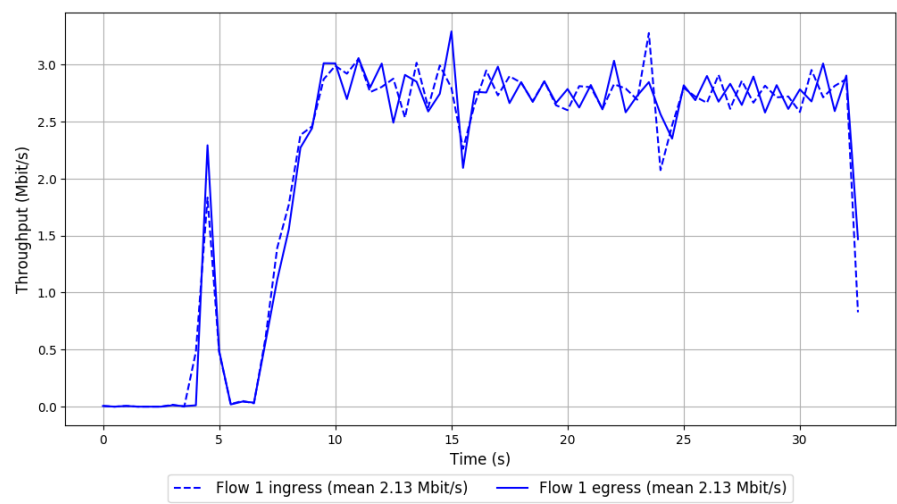


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 00:42:32
End at: 2018-01-16 00:43:02

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 115.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 115.686 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

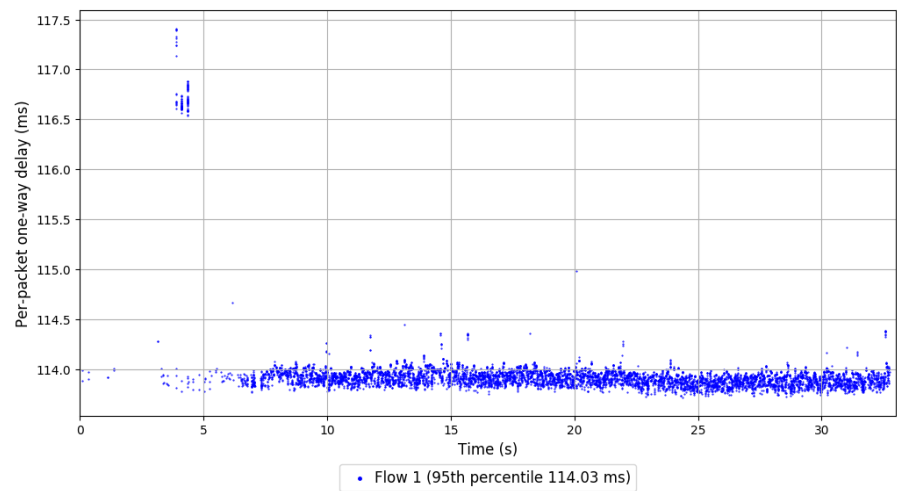
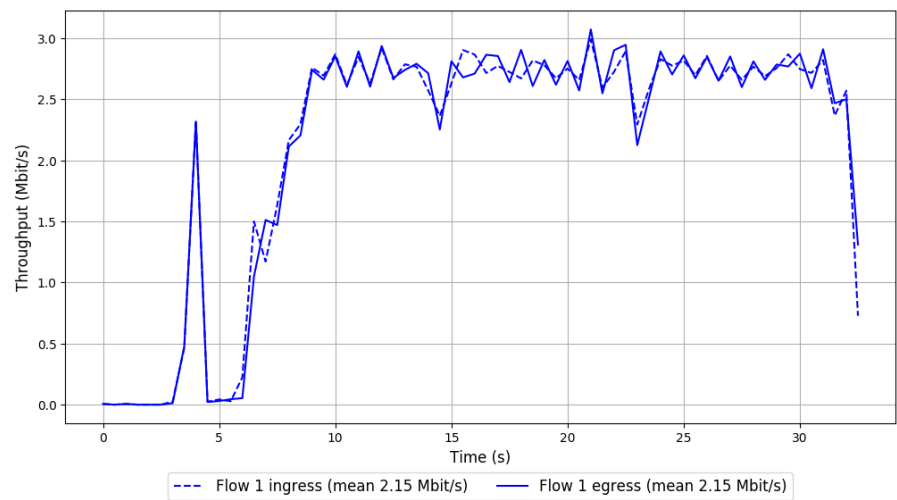


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-16 00:55:02
End at: 2018-01-16 00:55:32

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 114.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 114.033 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 01:07:26

End at: 2018-01-16 01:07:56

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 115.682 ms

Loss rate: 0.00%

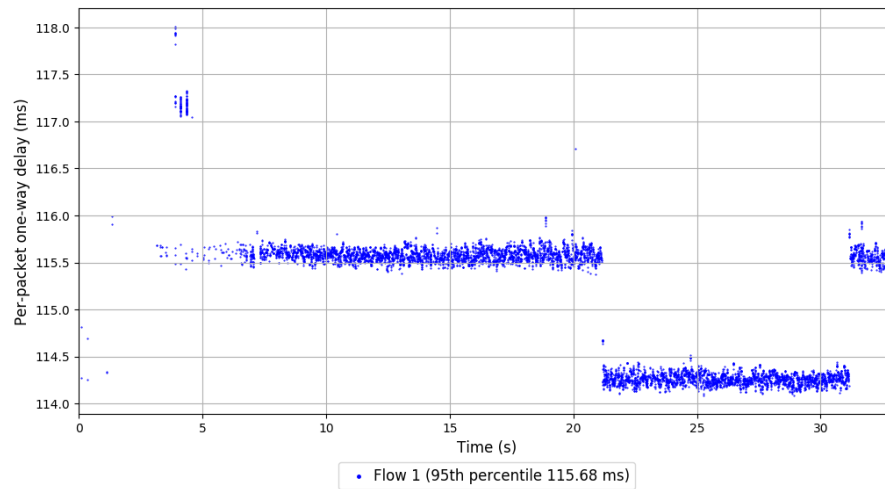
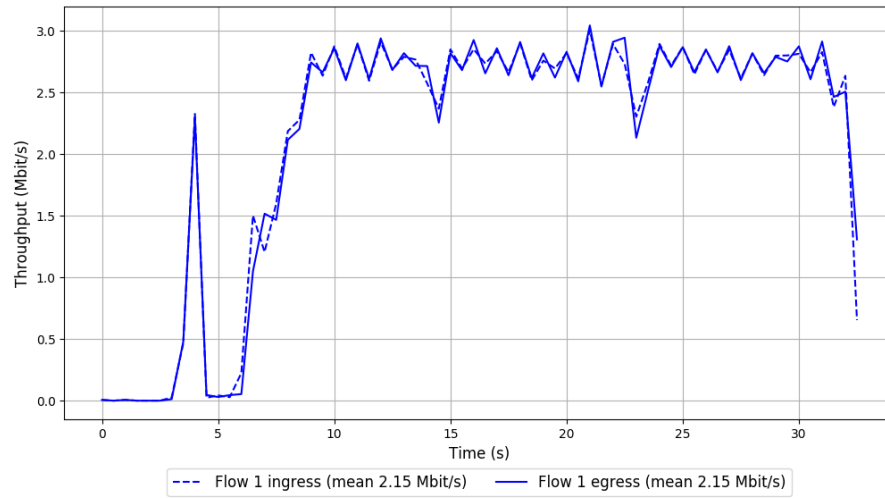
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 115.682 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-16 01:19:40

End at: 2018-01-16 01:20:10

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.735 ms

Loss rate: 0.00%

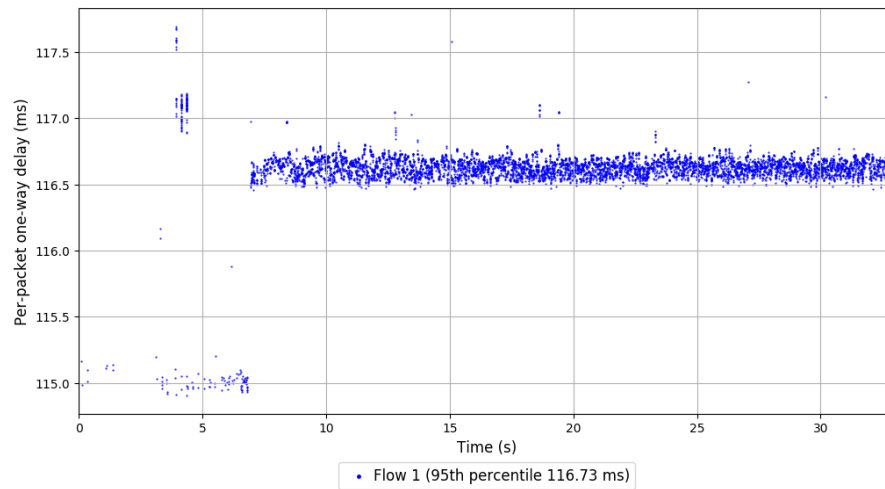
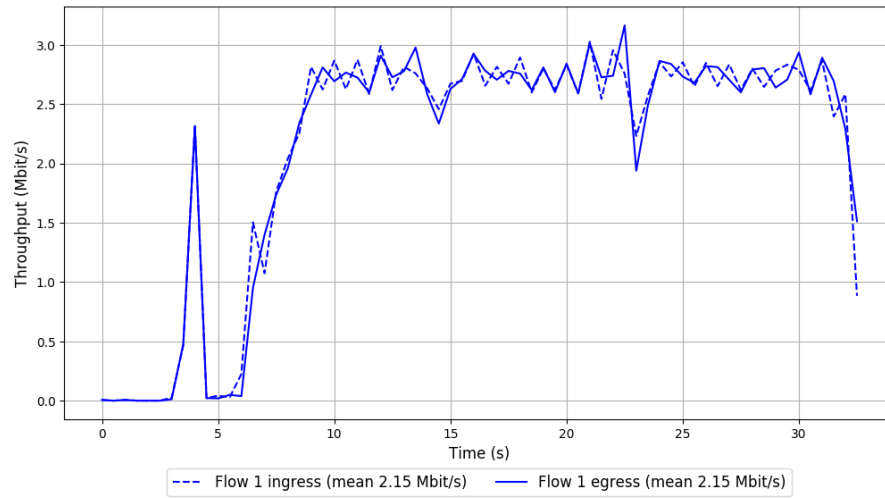
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.735 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-16 01:31:51

End at: 2018-01-16 01:32:21

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.460 ms

Loss rate: 0.00%

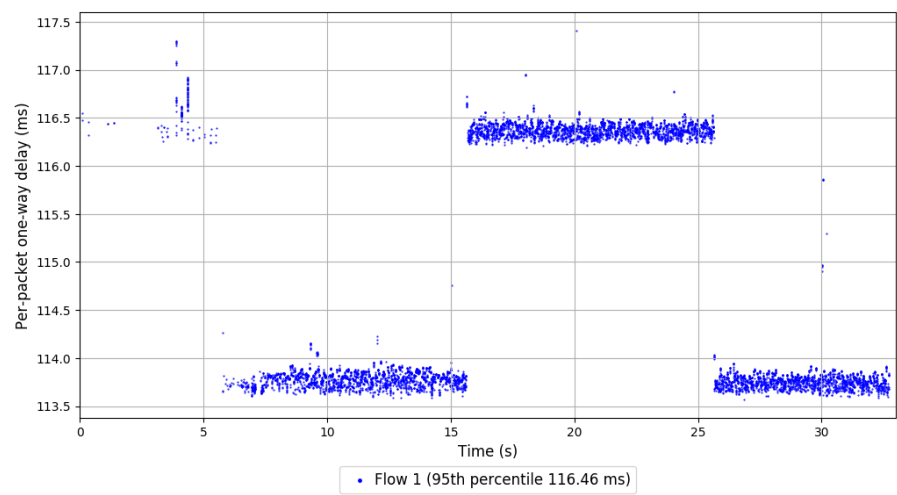
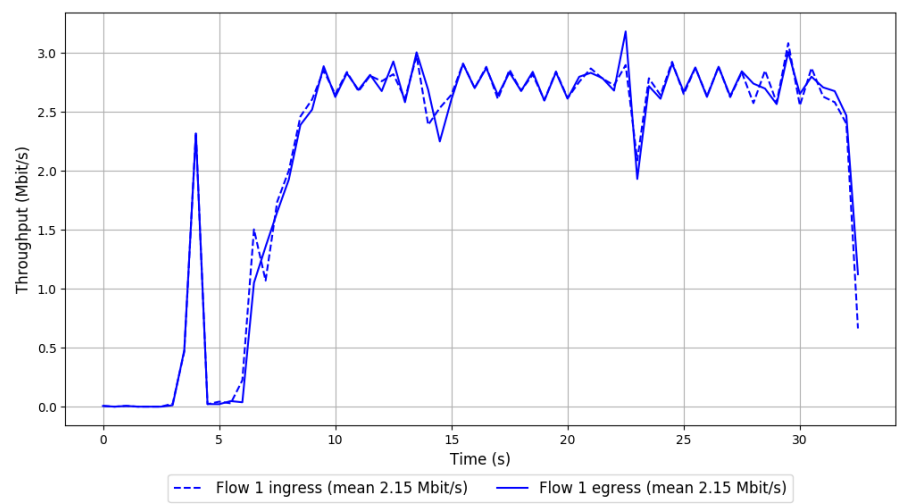
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.460 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-16 01:44:19

End at: 2018-01-16 01:44:49

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.991 ms

Loss rate: 0.00%

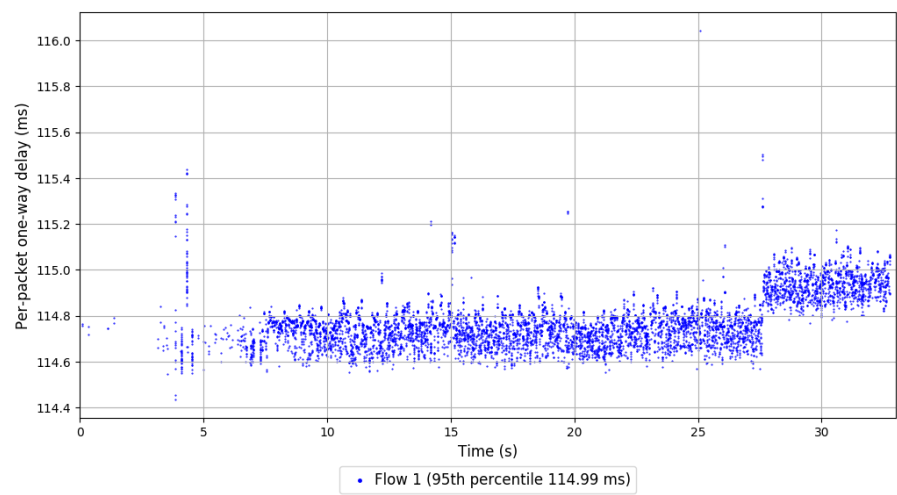
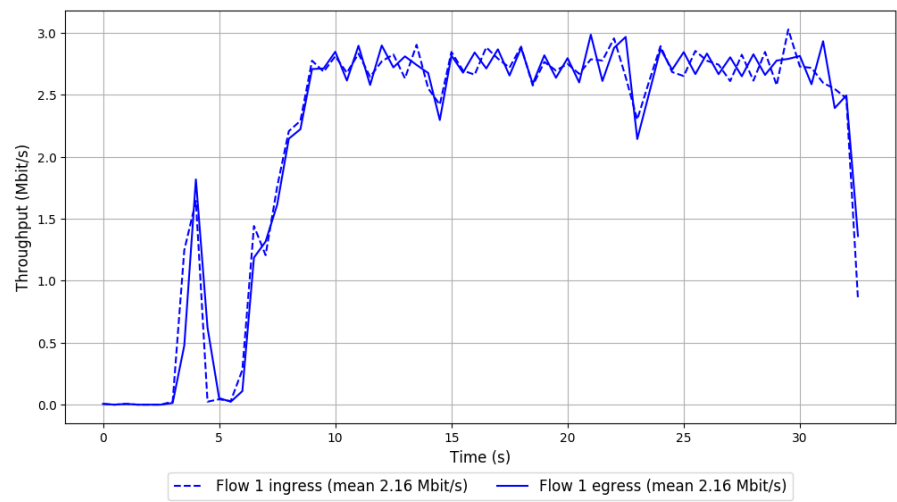
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.991 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-16 01:56:41

End at: 2018-01-16 01:57:11

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 117.706 ms

Loss rate: 0.00%

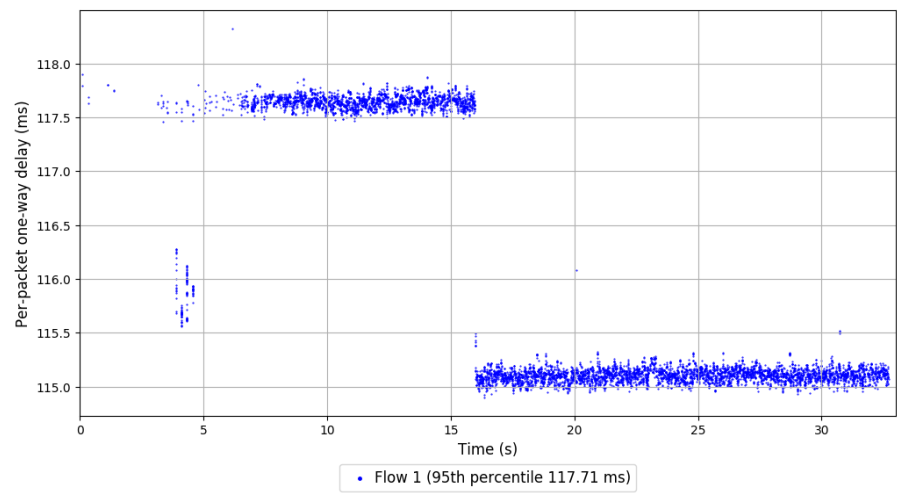
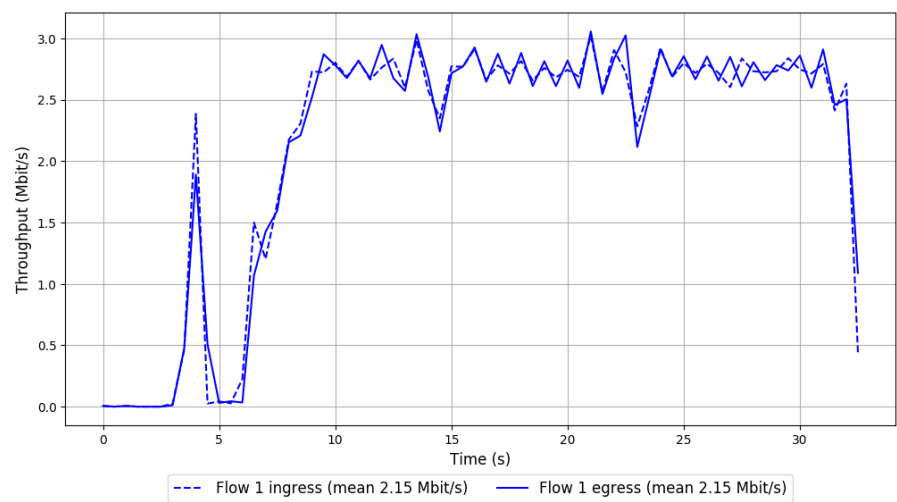
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 117.706 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-16 02:09:08

End at: 2018-01-16 02:09:38

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.778 ms

Loss rate: 0.00%

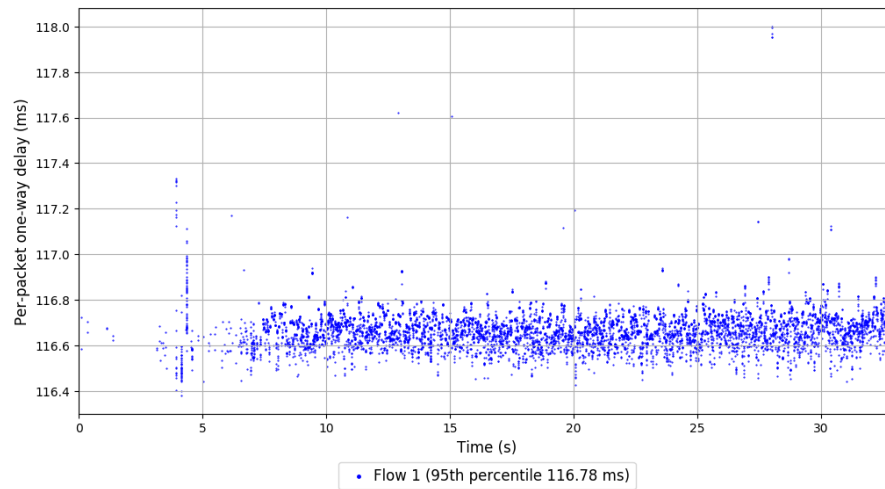
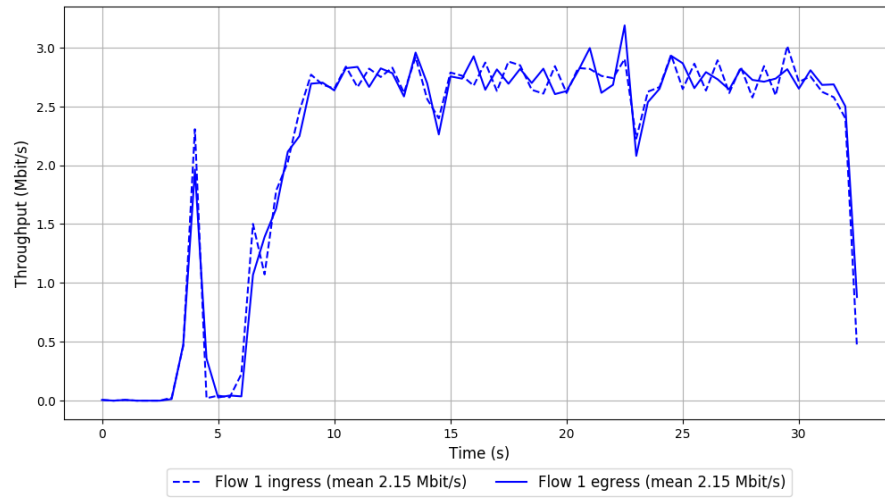
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 116.778 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-16 02:21:18

End at: 2018-01-16 02:21:48

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 118.708 ms

Loss rate: 0.00%

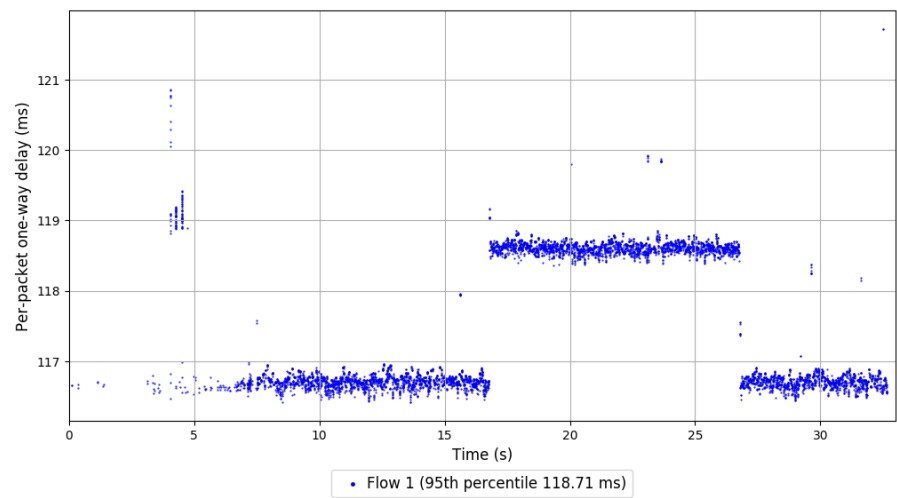
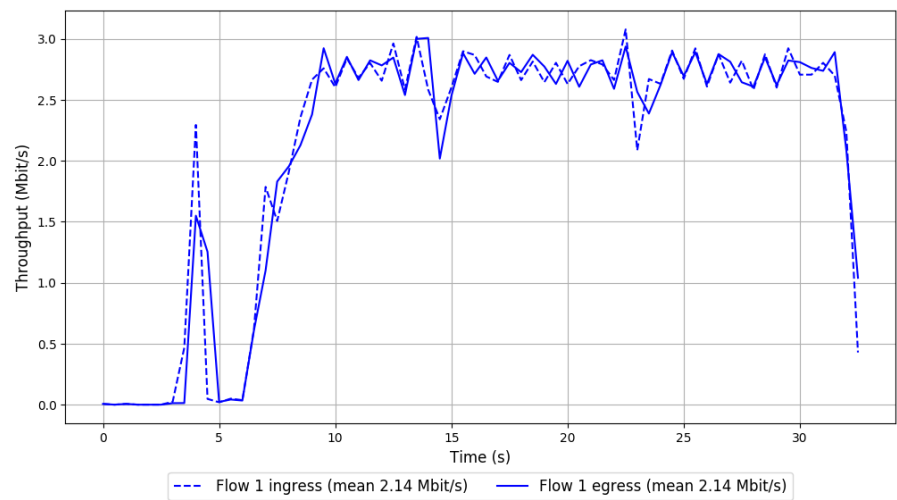
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 118.708 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-16 02:33:20

End at: 2018-01-16 02:33:50

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 118.106 ms

Loss rate: 0.00%

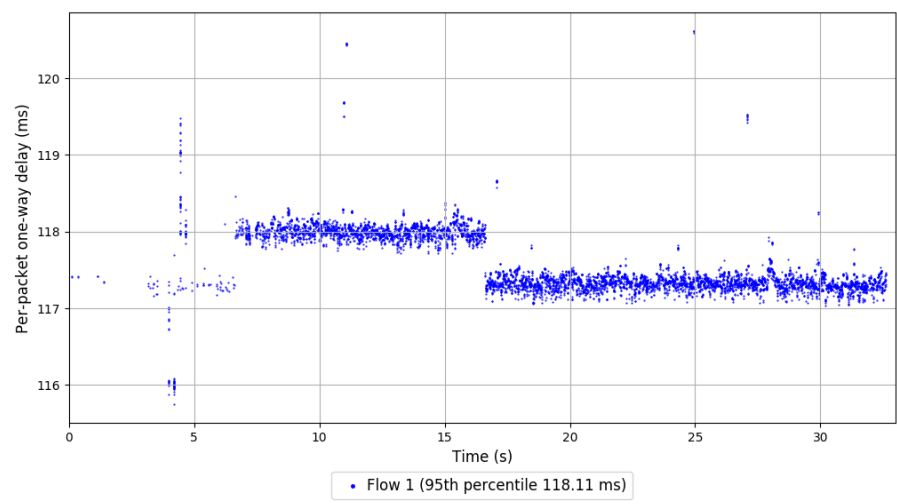
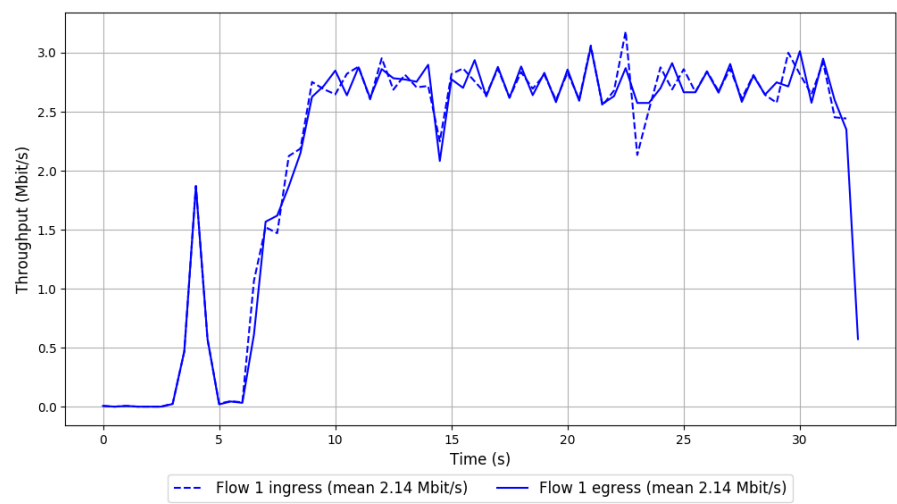
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 118.106 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

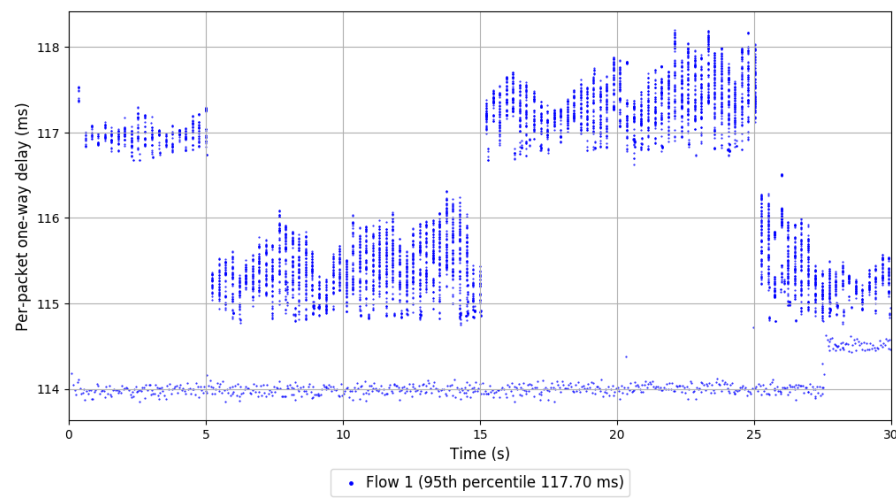
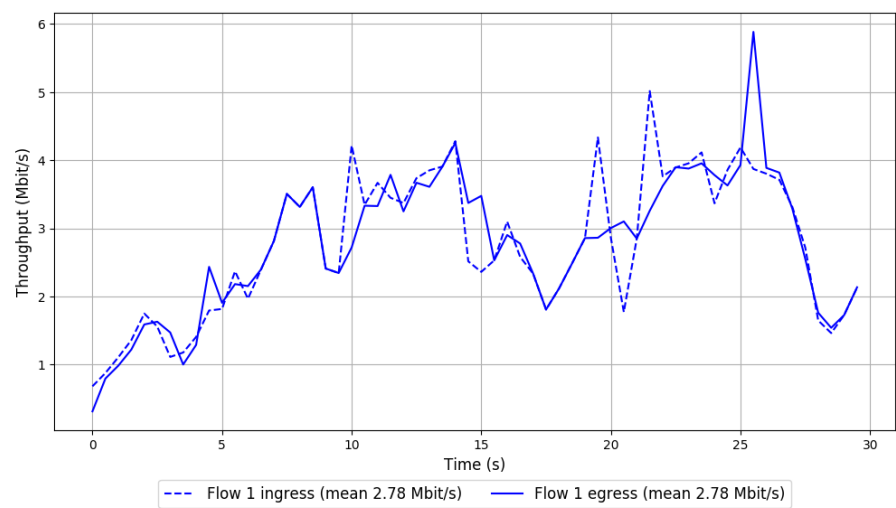


```
Run 1: Statistics of Sprout

Start at: 2018-01-16 00:48:17
End at: 2018-01-16 00:48:47

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 117.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 117.703 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-16 01:00:40

End at: 2018-01-16 01:01:10

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 117.955 ms

Loss rate: 0.00%

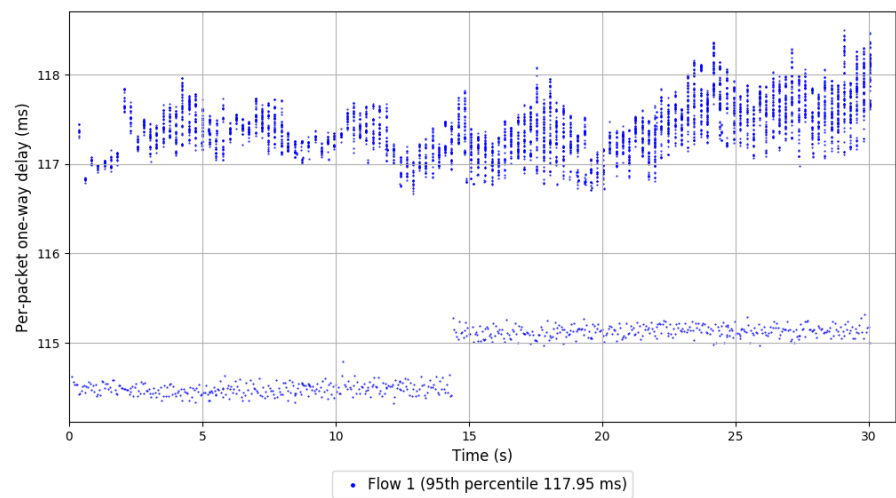
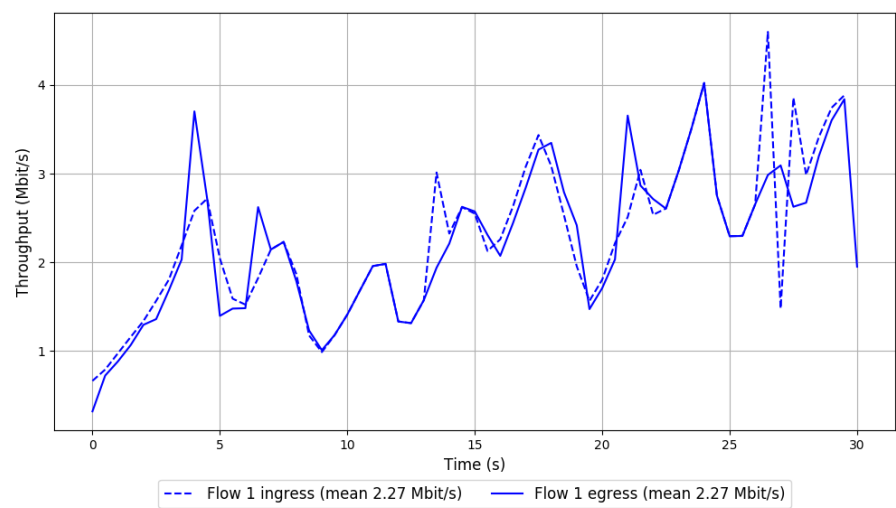
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 117.955 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-16 01:12:59

End at: 2018-01-16 01:13:29

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 117.801 ms

Loss rate: 0.00%

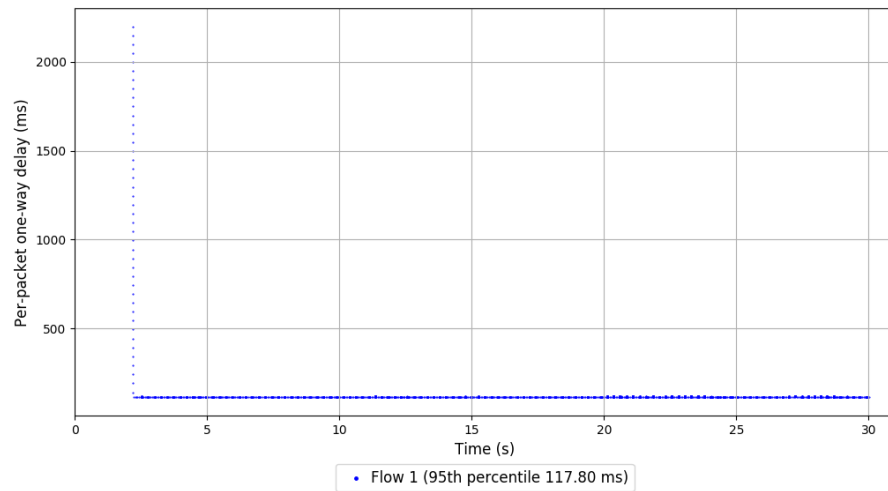
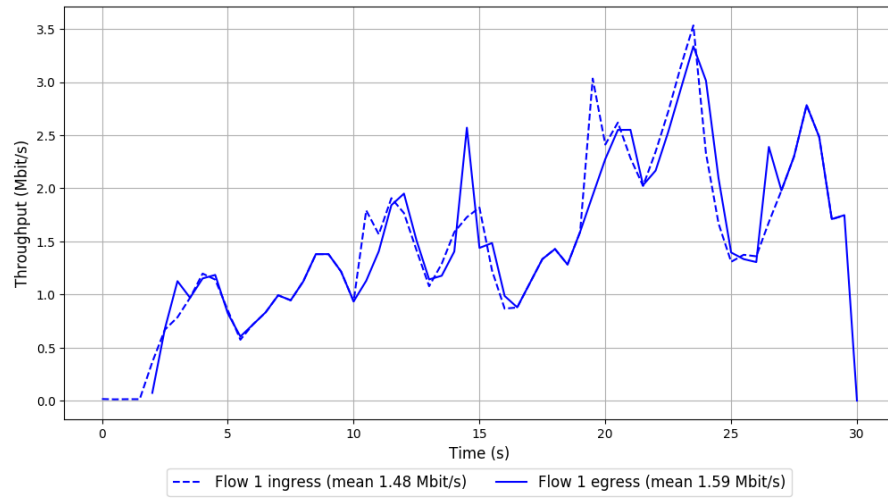
-- Flow 1:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 117.801 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-16 01:25:05

End at: 2018-01-16 01:25:35

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 118.068 ms

Loss rate: 0.00%

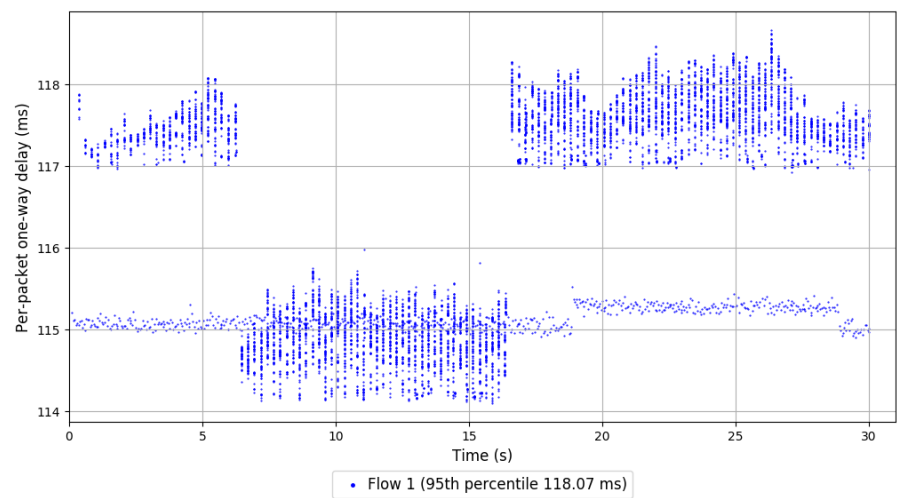
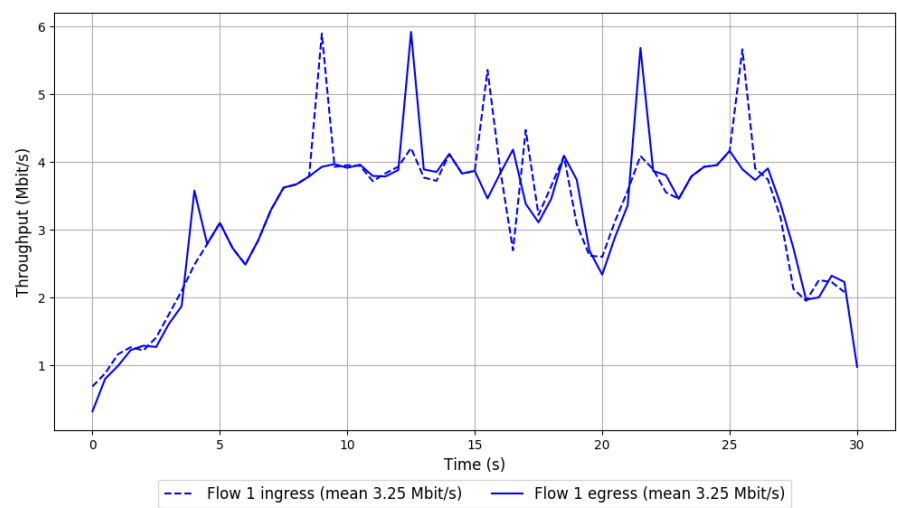
-- Flow 1:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 118.068 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-16 01:37:42

End at: 2018-01-16 01:38:12

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 117.118 ms

Loss rate: 0.00%

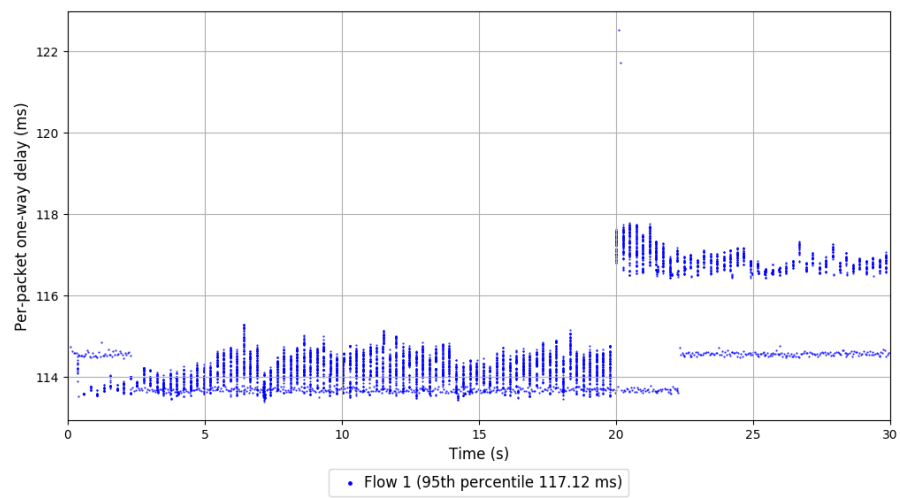
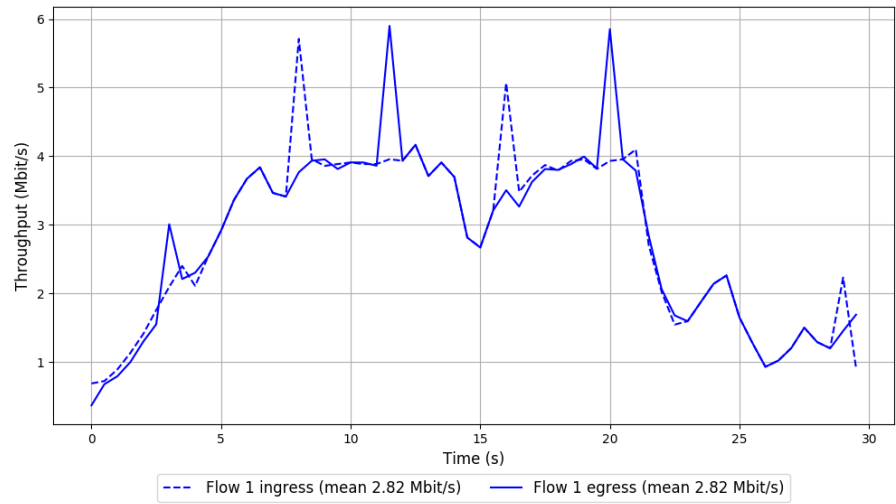
-- Flow 1:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 117.118 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 01:49:55

End at: 2018-01-16 01:50:25

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 117.452 ms

Loss rate: 0.00%

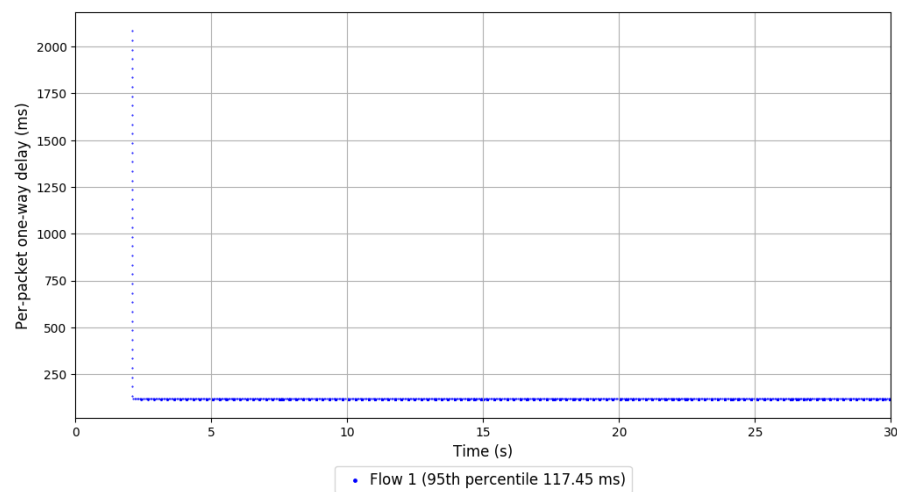
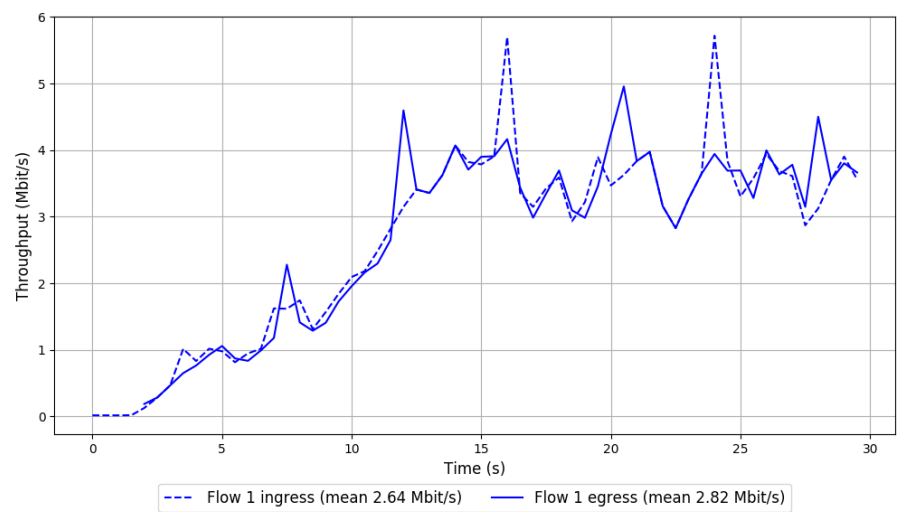
-- Flow 1:

Average throughput: 2.82 Mbit/s

95th percentile per-packet one-way delay: 117.452 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-16 02:02:22

End at: 2018-01-16 02:02:52

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 119.829 ms

Loss rate: 0.00%

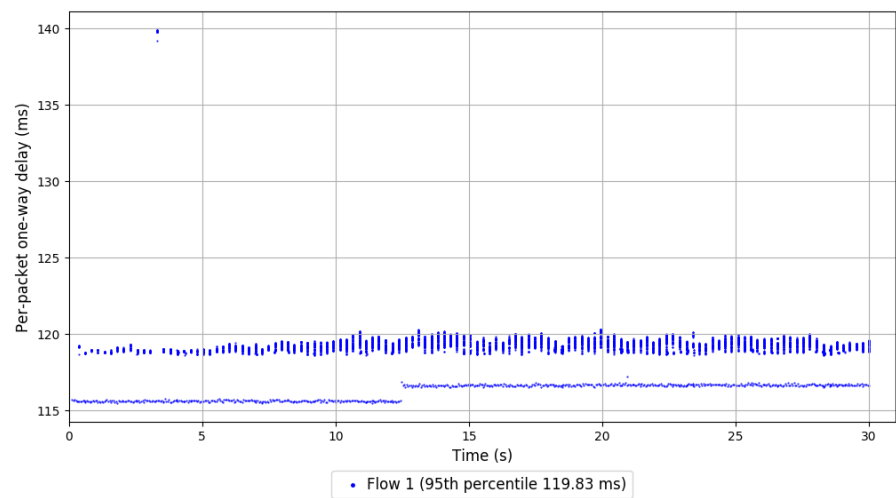
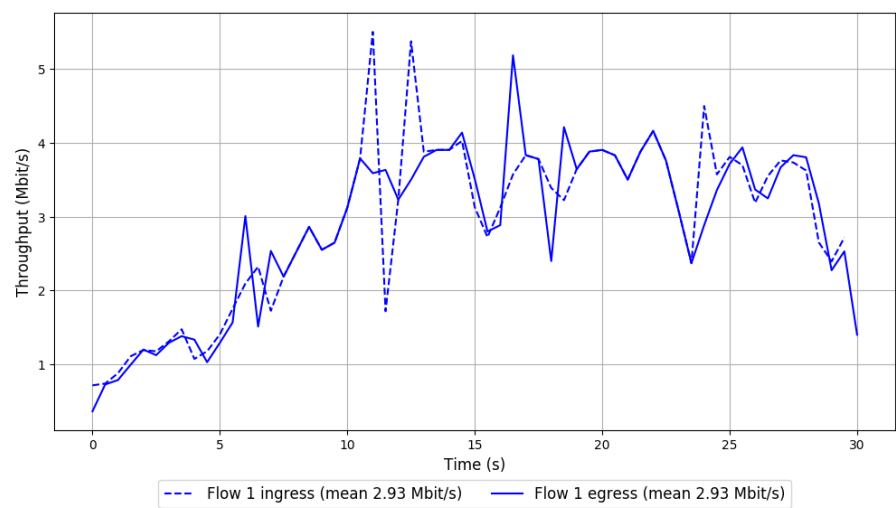
-- Flow 1:

Average throughput: 2.93 Mbit/s

95th percentile per-packet one-way delay: 119.829 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-16 02:14:39

End at: 2018-01-16 02:15:09

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 119.424 ms

Loss rate: 0.03%

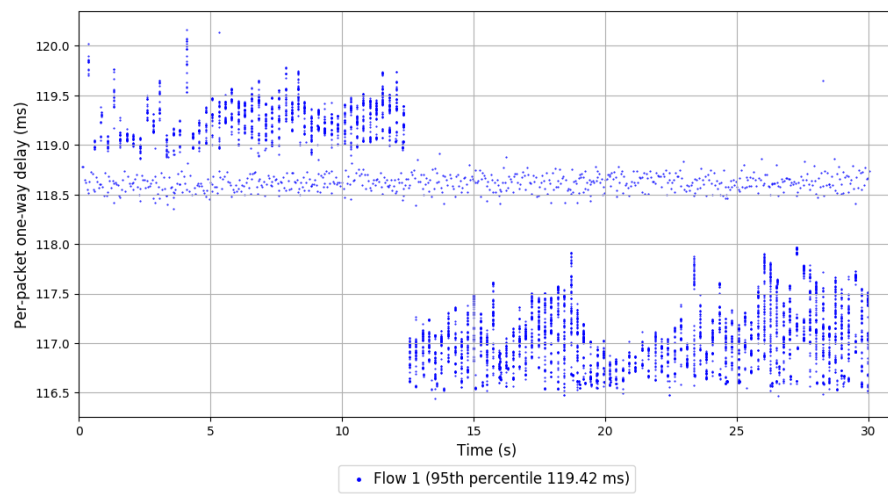
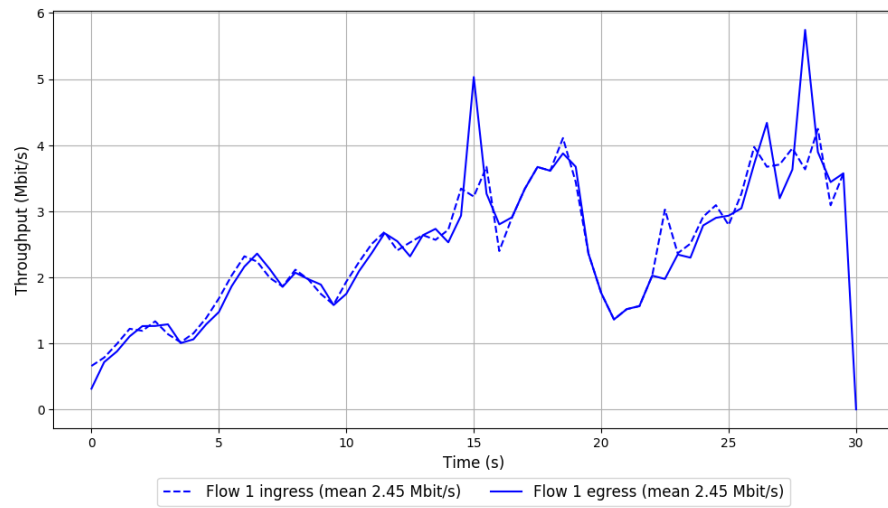
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 119.424 ms

Loss rate: 0.03%

Run 8: Report of Sprout — Data Link

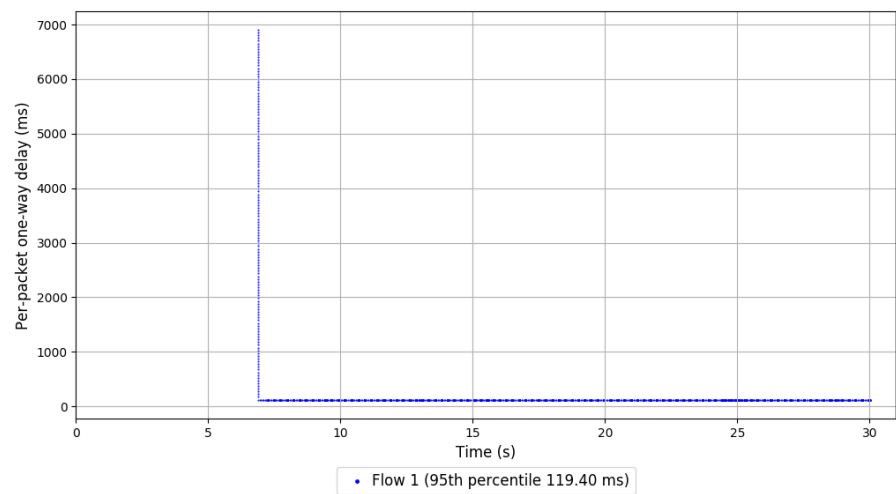
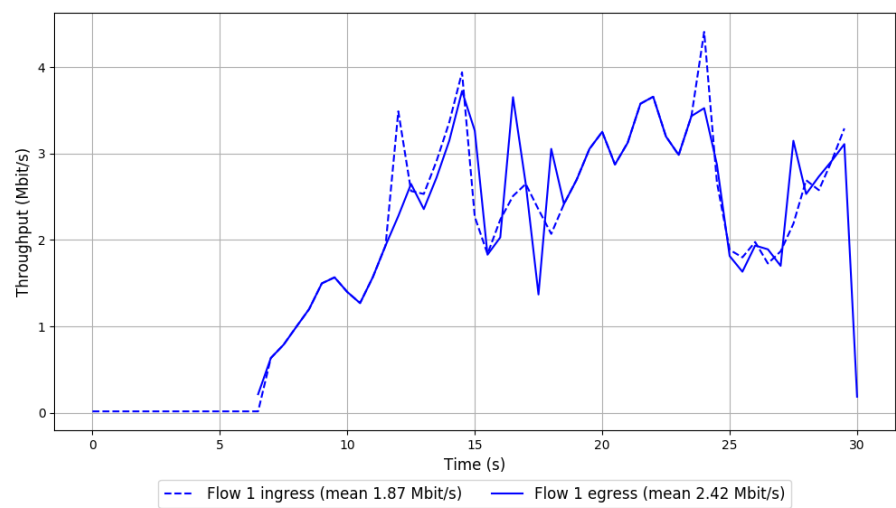


Run 9: Statistics of Sprout

Start at: 2018-01-16 02:26:50

End at: 2018-01-16 02:27:20

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-16 02:39:04

End at: 2018-01-16 02:39:35

Below is generated by plot.py at 2018-01-16 03:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 119.036 ms

Loss rate: 0.38%

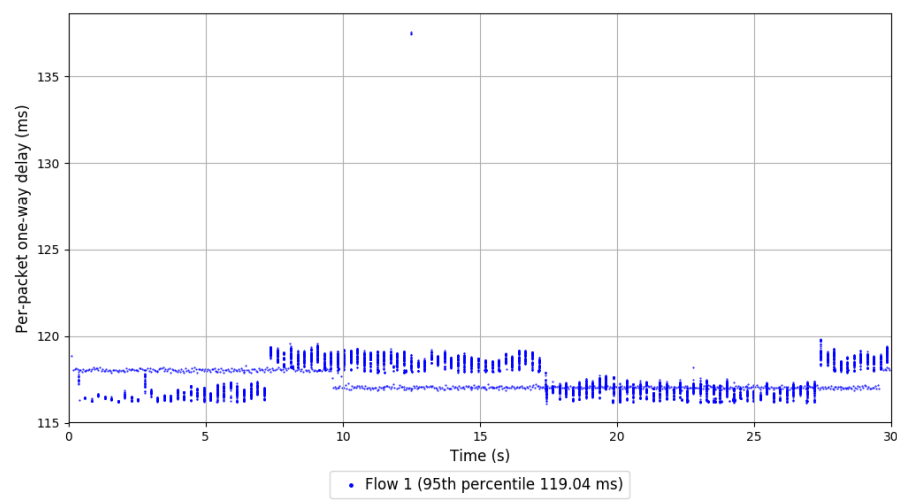
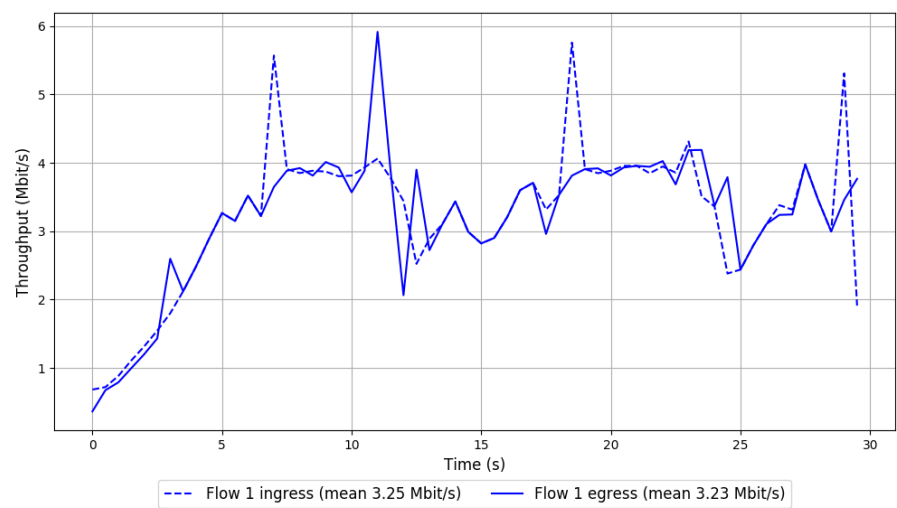
-- Flow 1:

Average throughput: 3.23 Mbit/s

95th percentile per-packet one-way delay: 119.036 ms

Loss rate: 0.38%

Run 10: Report of Sprout — Data Link

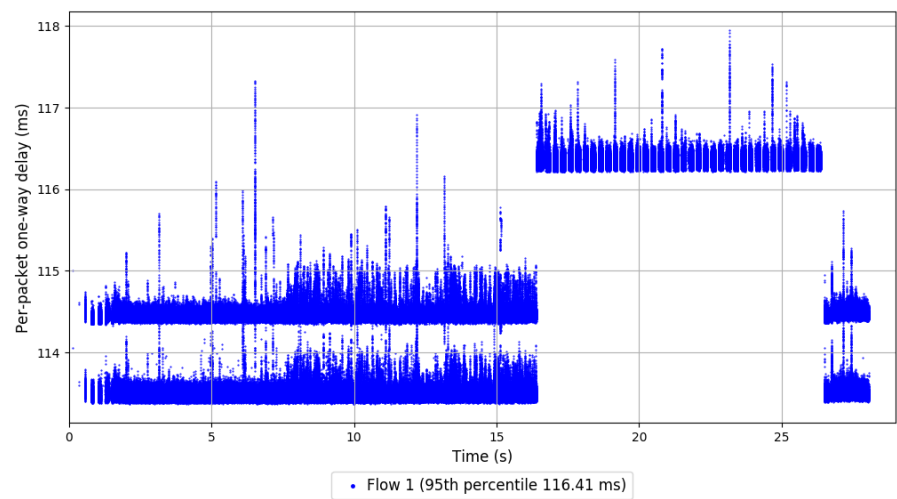
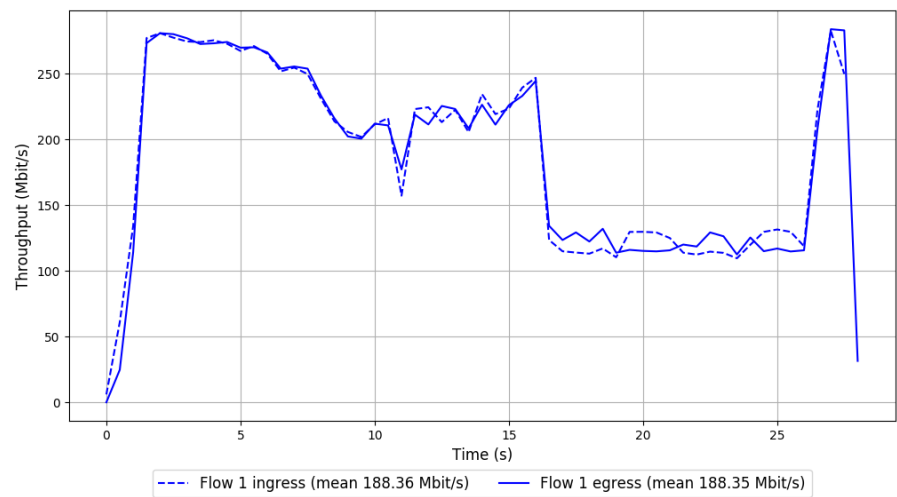


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 00:43:13
End at: 2018-01-16 00:43:43

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.35 Mbit/s
95th percentile per-packet one-way delay: 116.408 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.35 Mbit/s
95th percentile per-packet one-way delay: 116.408 ms
Loss rate: 0.00%
```


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

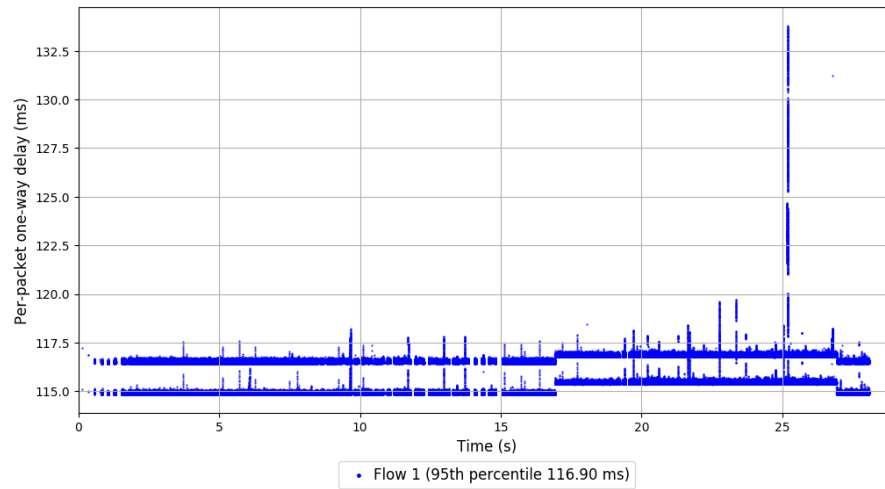
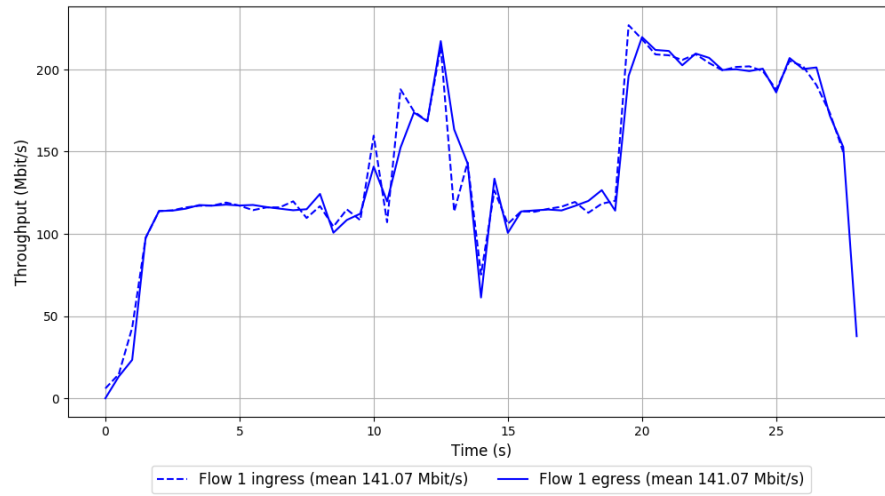


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 00:55:43
End at: 2018-01-16 00:56:13

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.07 Mbit/s
95th percentile per-packet one-way delay: 116.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 141.07 Mbit/s
95th percentile per-packet one-way delay: 116.899 ms
Loss rate: 0.00%
```

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

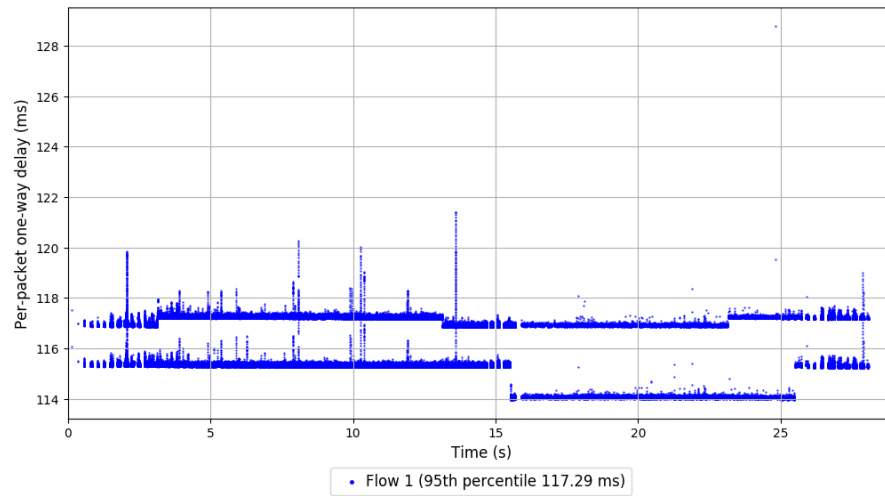
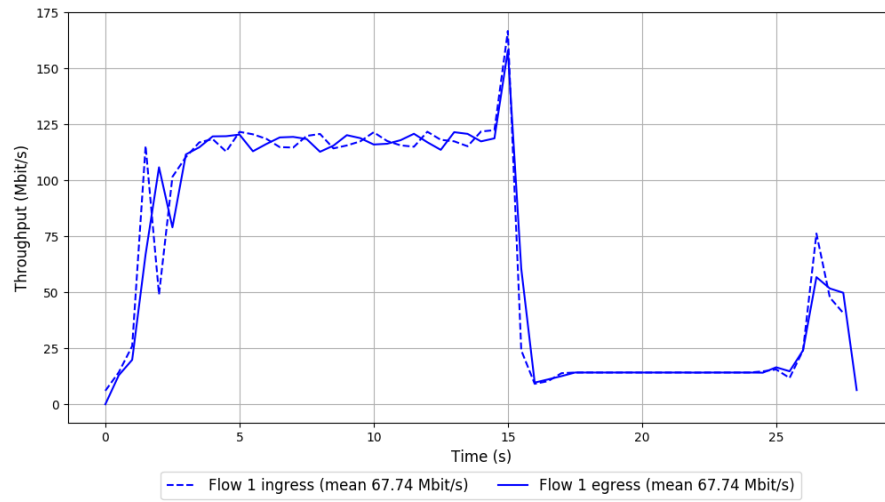


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 01:08:07
End at: 2018-01-16 01:08:37

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.74 Mbit/s
95th percentile per-packet one-way delay: 117.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.74 Mbit/s
95th percentile per-packet one-way delay: 117.286 ms
Loss rate: 0.00%
```

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

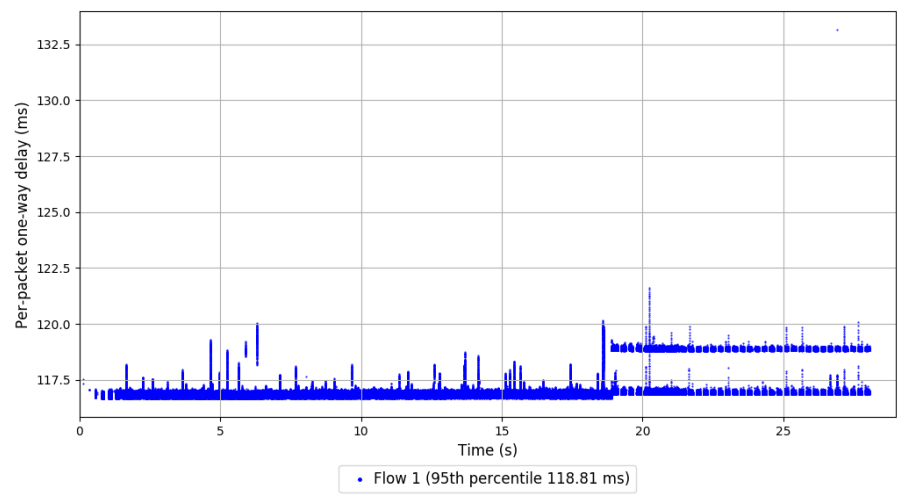
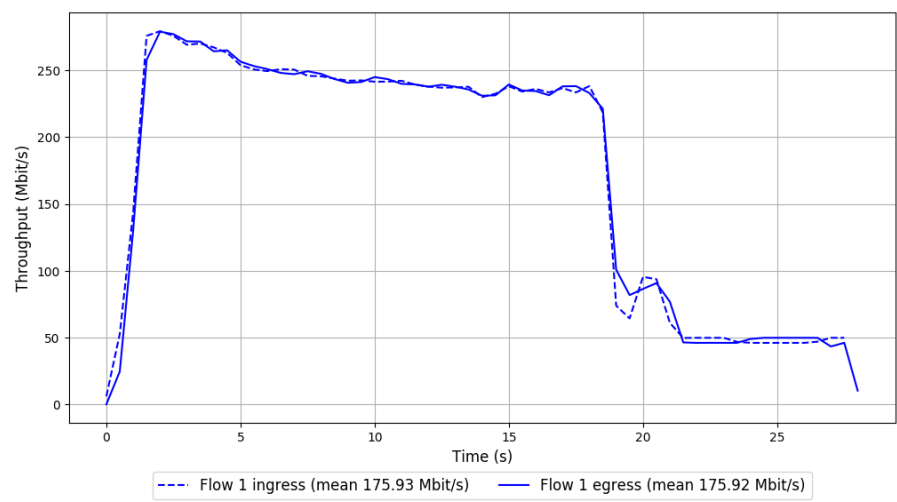


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 01:20:21
End at: 2018-01-16 01:20:51

# Below is generated by plot.py at 2018-01-16 03:56:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.92 Mbit/s
95th percentile per-packet one-way delay: 118.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.92 Mbit/s
95th percentile per-packet one-way delay: 118.814 ms
Loss rate: 0.00%
```

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

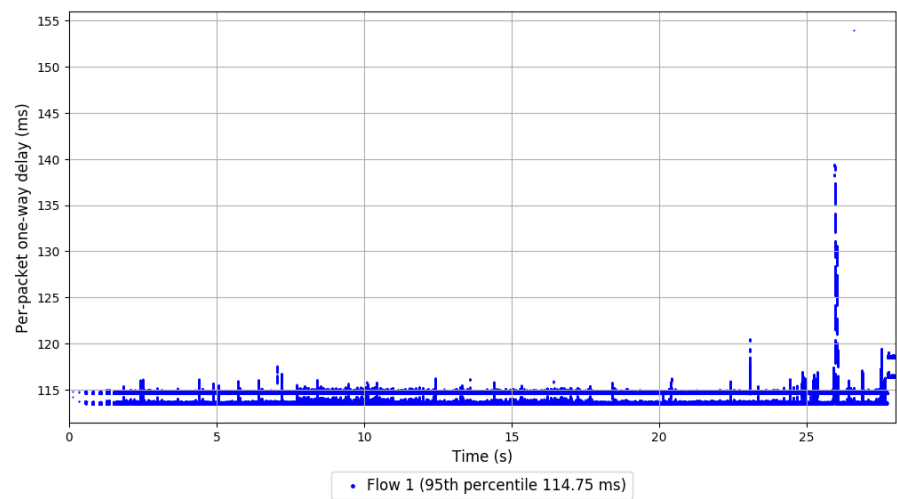
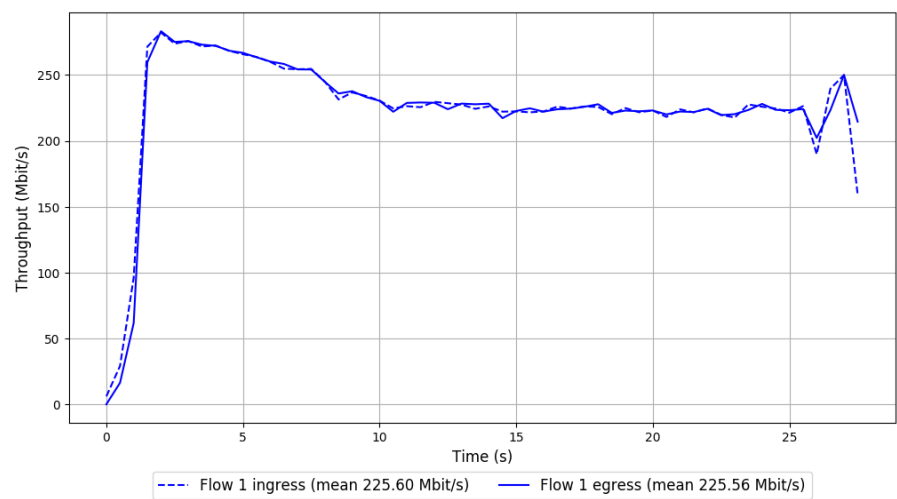


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 01:32:32
End at: 2018-01-16 01:33:02

# Below is generated by plot.py at 2018-01-16 03:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.56 Mbit/s
95th percentile per-packet one-way delay: 114.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.56 Mbit/s
95th percentile per-packet one-way delay: 114.750 ms
Loss rate: 0.00%
```


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

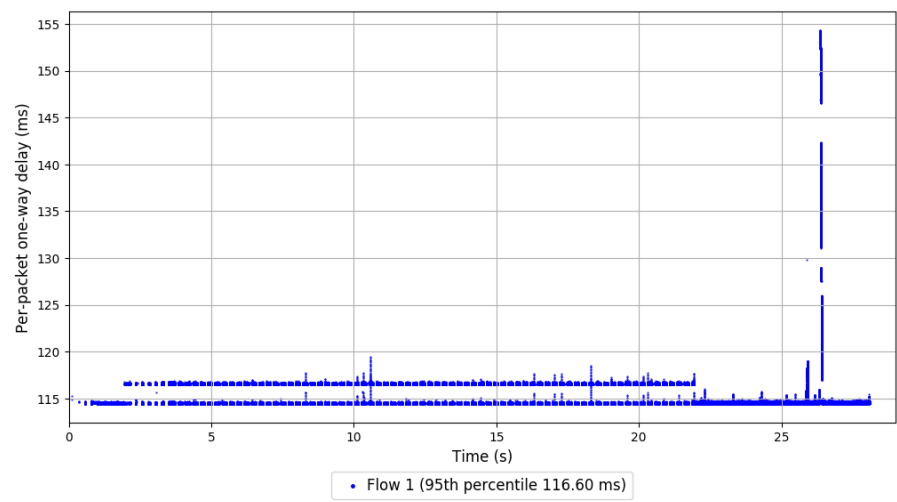
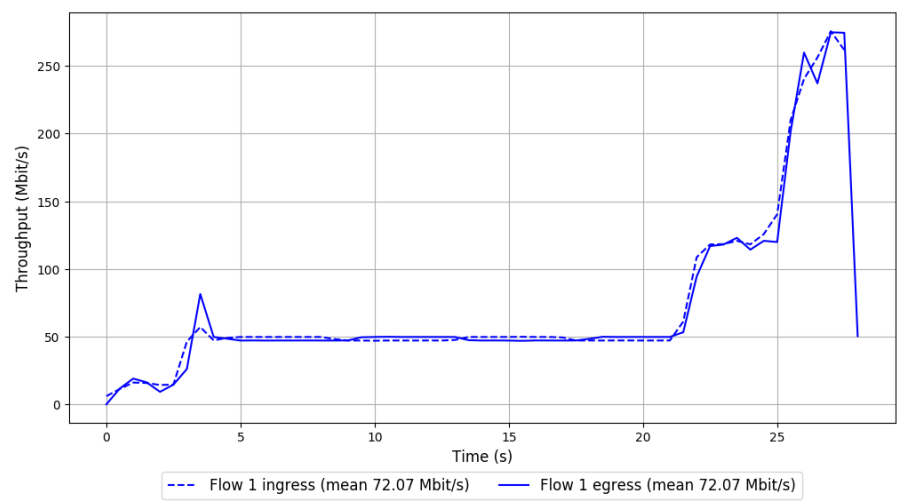


```
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 01:45:00
End at: 2018-01-16 01:45:30

# Below is generated by plot.py at 2018-01-16 03:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.07 Mbit/s
95th percentile per-packet one-way delay: 116.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.07 Mbit/s
95th percentile per-packet one-way delay: 116.603 ms
Loss rate: 0.00%
```

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

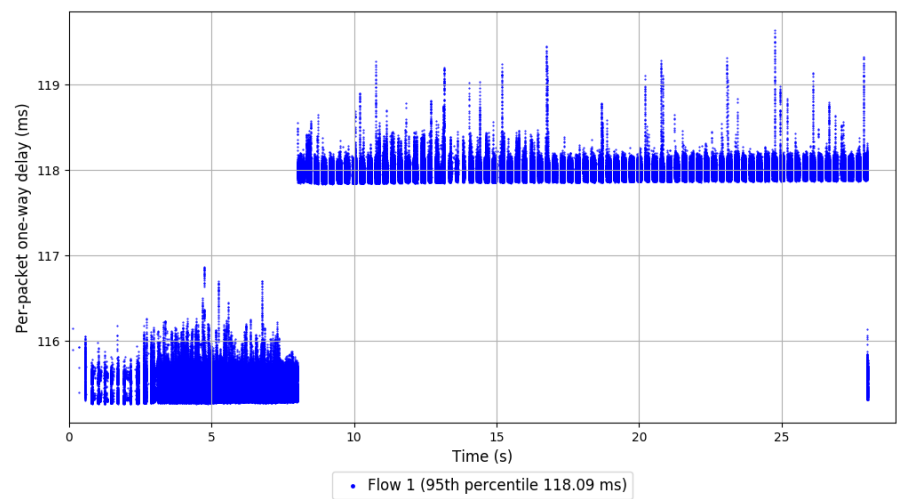
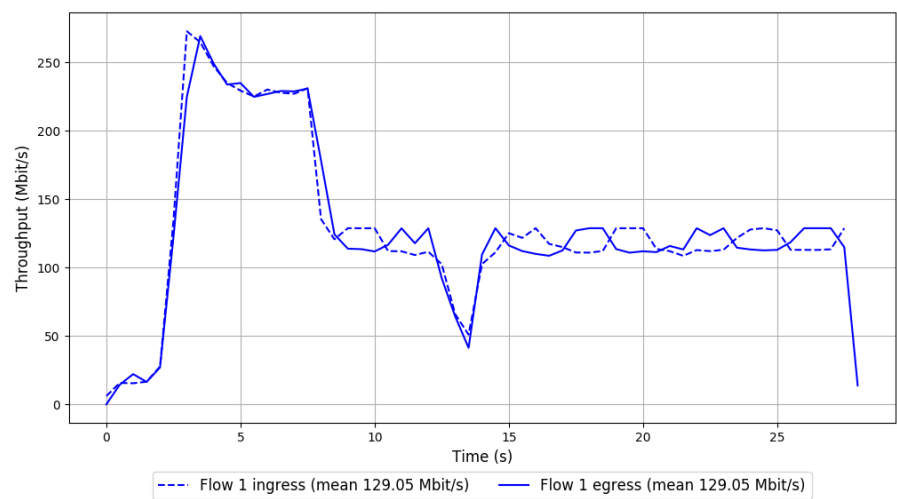


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 01:57:22
End at: 2018-01-16 01:57:52

# Below is generated by plot.py at 2018-01-16 03:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.05 Mbit/s
95th percentile per-packet one-way delay: 118.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 129.05 Mbit/s
95th percentile per-packet one-way delay: 118.091 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-16 02:09:49

End at: 2018-01-16 02:10:19

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 118.874 ms

Loss rate: 0.00%

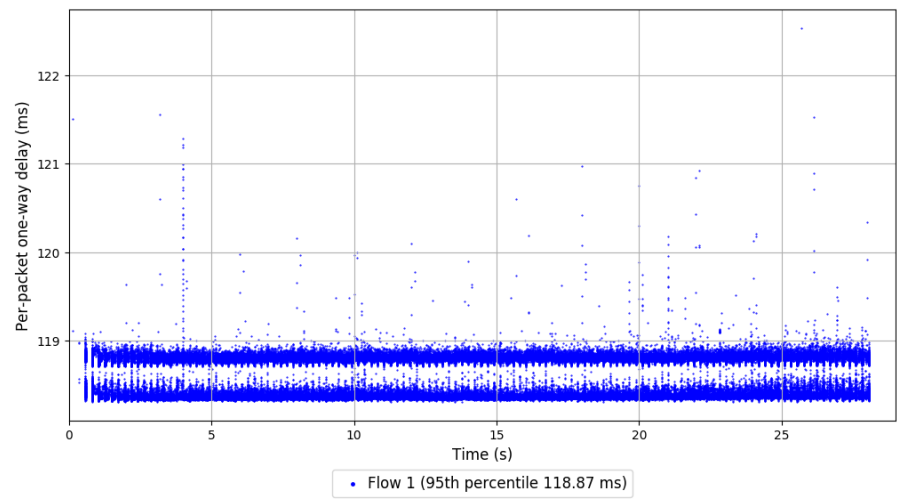
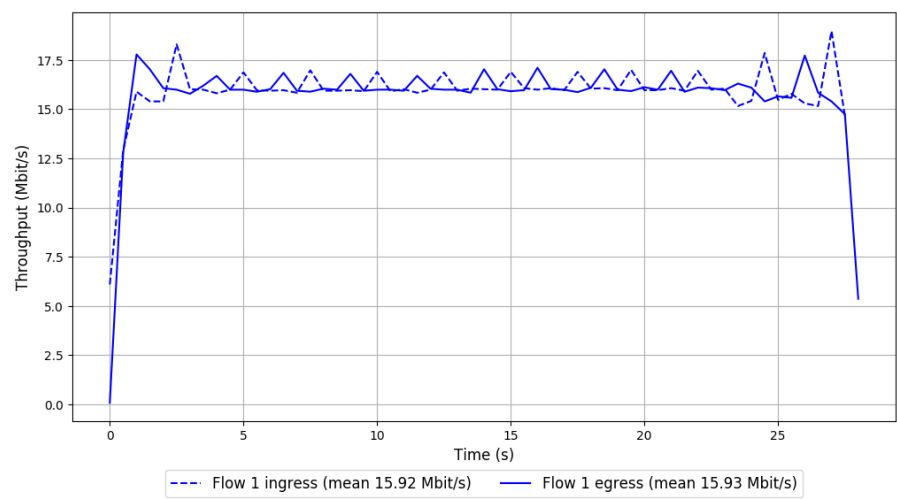
-- Flow 1:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 118.874 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 02:21:59

End at: 2018-01-16 02:22:29

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 120.963 ms

Loss rate: 0.00%

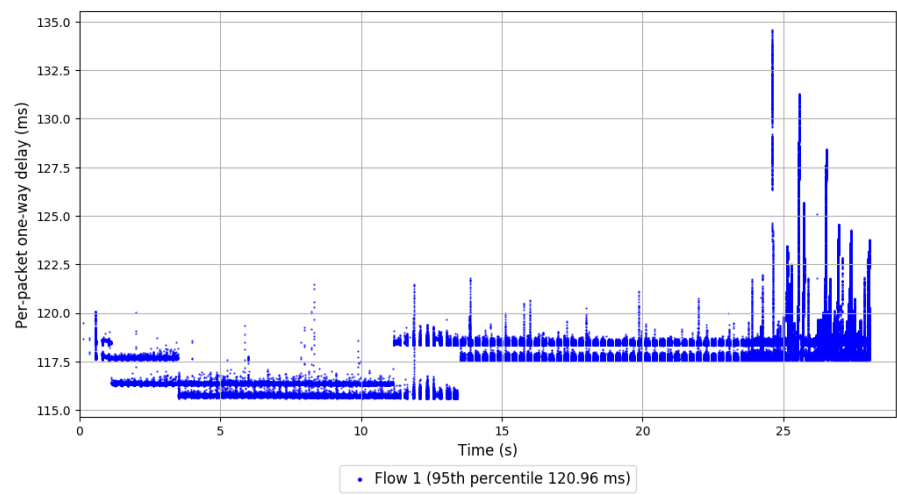
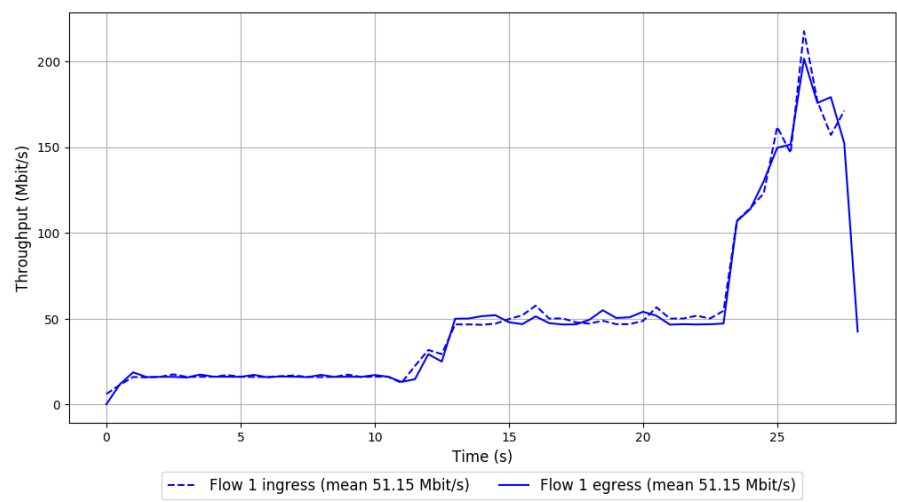
-- Flow 1:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 120.963 ms

Loss rate: 0.00%

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

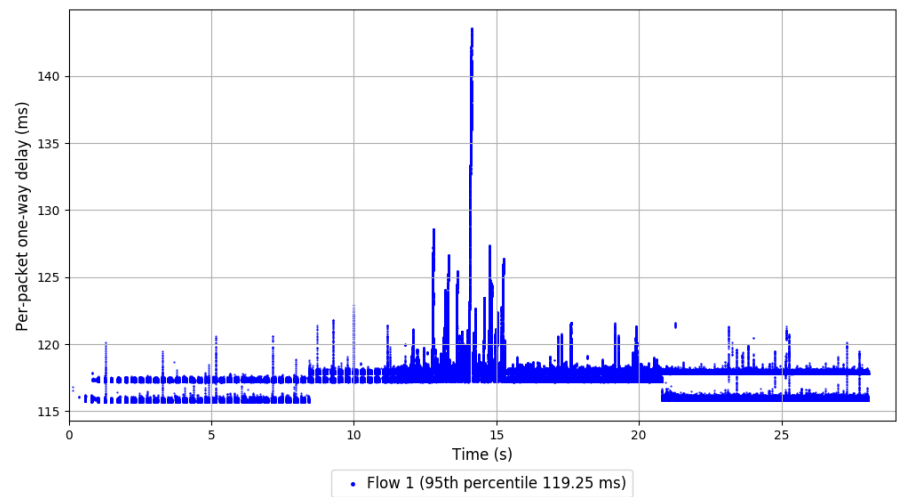
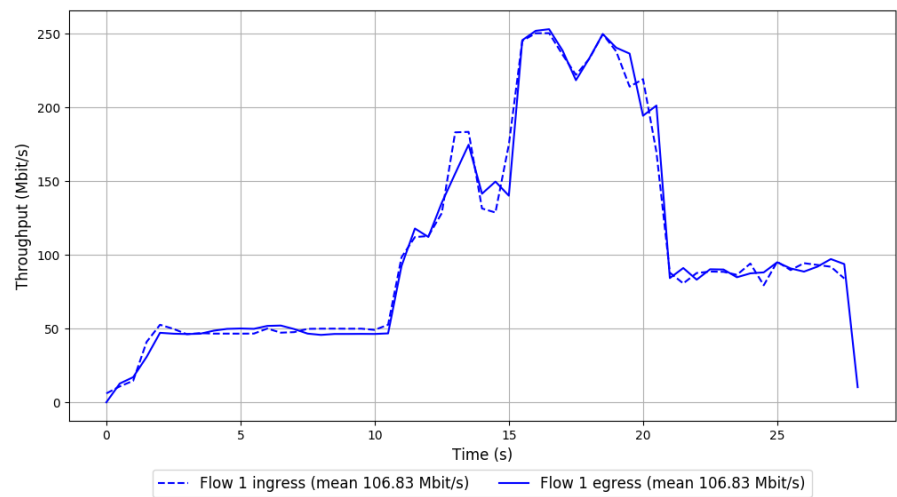


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 02:34:01
End at: 2018-01-16 02:34:31

# Below is generated by plot.py at 2018-01-16 03:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 106.83 Mbit/s
95th percentile per-packet one-way delay: 119.246 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 106.83 Mbit/s
95th percentile per-packet one-way delay: 119.246 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 00:41:50

End at: 2018-01-16 00:42:20

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.04 Mbit/s

95th percentile per-packet one-way delay: 117.562 ms

Loss rate: 0.00%

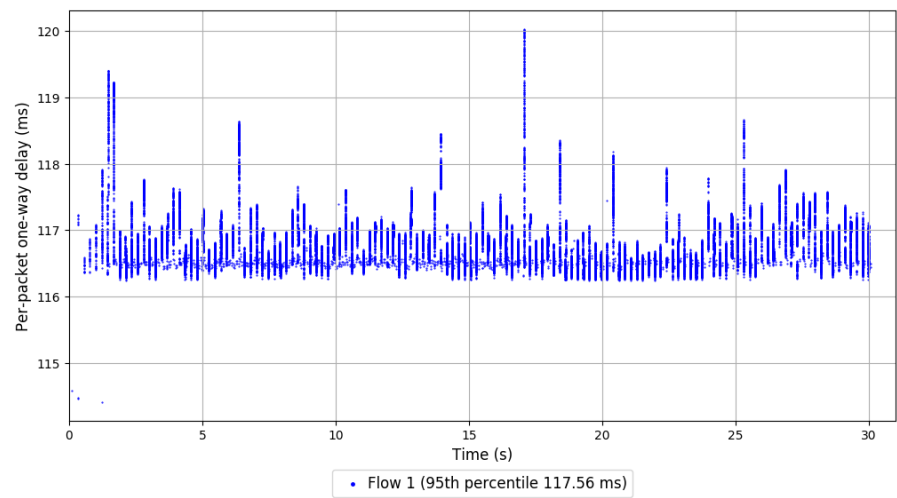
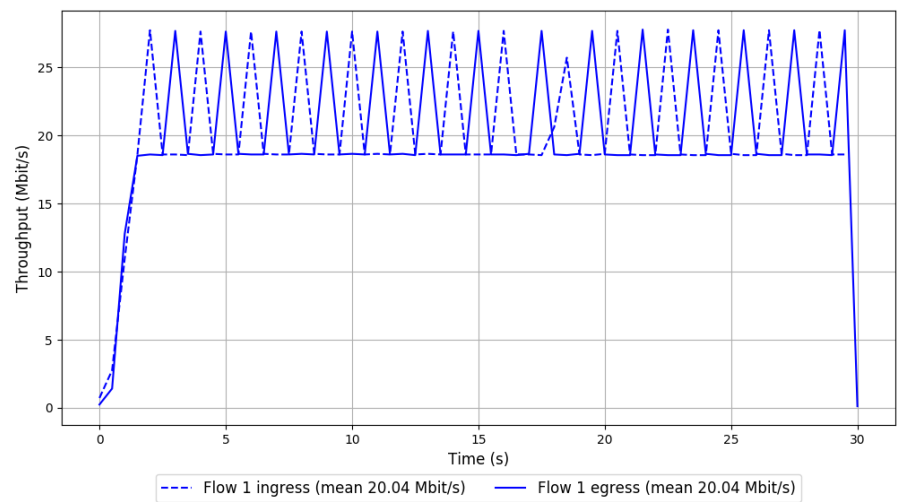
-- Flow 1:

Average throughput: 20.04 Mbit/s

95th percentile per-packet one-way delay: 117.562 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 00:54:15

End at: 2018-01-16 00:54:45

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.96 Mbit/s

95th percentile per-packet one-way delay: 126.578 ms

Loss rate: 0.00%

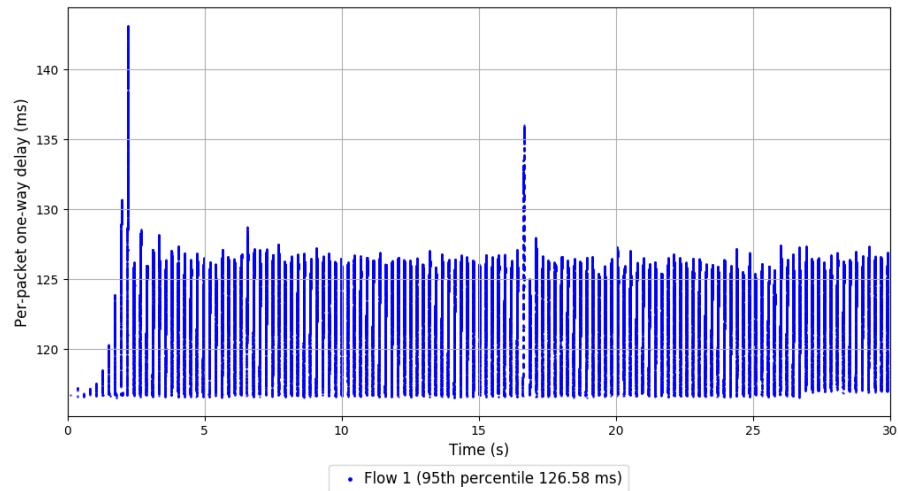
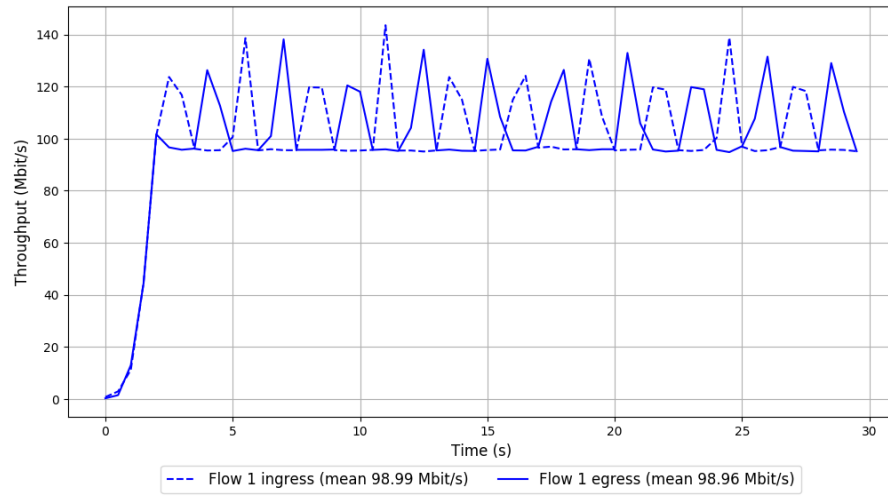
-- Flow 1:

Average throughput: 98.96 Mbit/s

95th percentile per-packet one-way delay: 126.578 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 01:06:43

End at: 2018-01-16 01:07:13

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.42 Mbit/s

95th percentile per-packet one-way delay: 118.638 ms

Loss rate: 0.00%

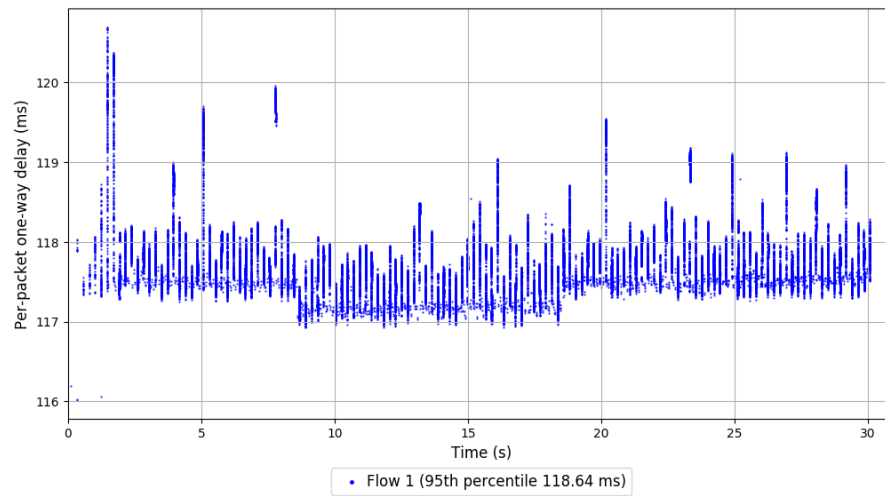
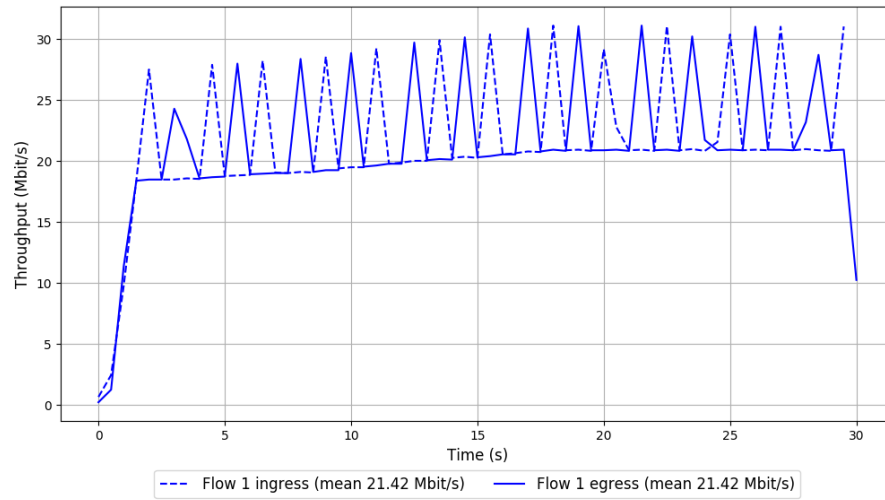
-- Flow 1:

Average throughput: 21.42 Mbit/s

95th percentile per-packet one-way delay: 118.638 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 01:18:58

End at: 2018-01-16 01:19:28

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.64 Mbit/s

95th percentile per-packet one-way delay: 117.695 ms

Loss rate: 0.00%

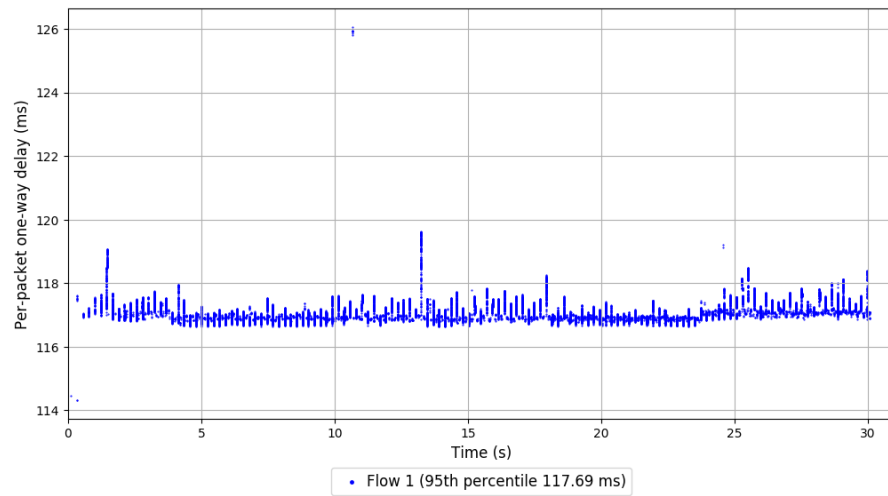
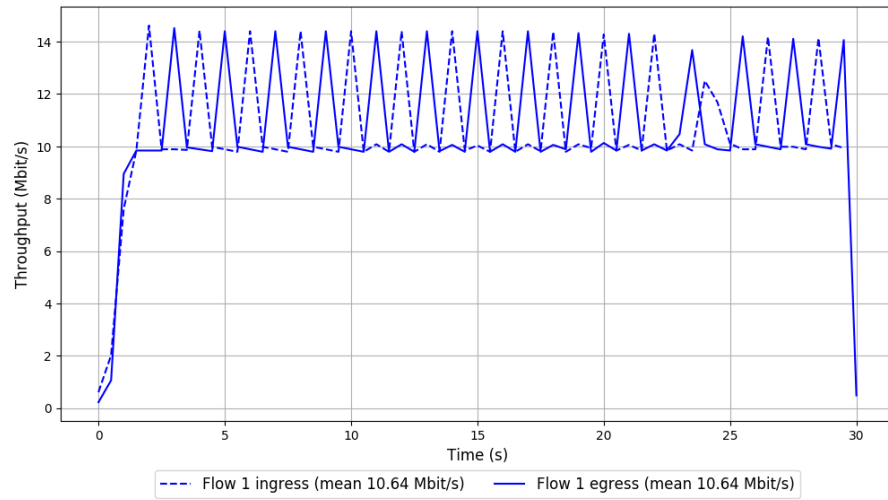
-- Flow 1:

Average throughput: 10.64 Mbit/s

95th percentile per-packet one-way delay: 117.695 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 01:31:04

End at: 2018-01-16 01:31:34

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.65 Mbit/s

95th percentile per-packet one-way delay: 127.580 ms

Loss rate: 0.00%

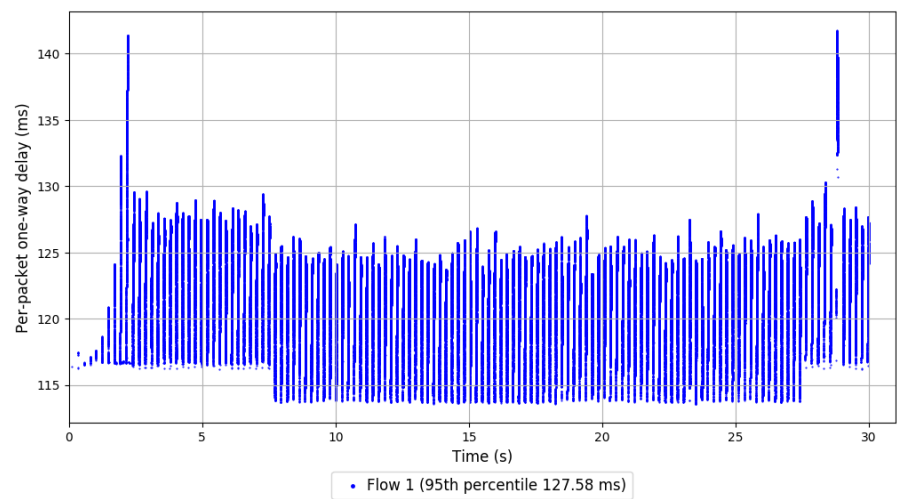
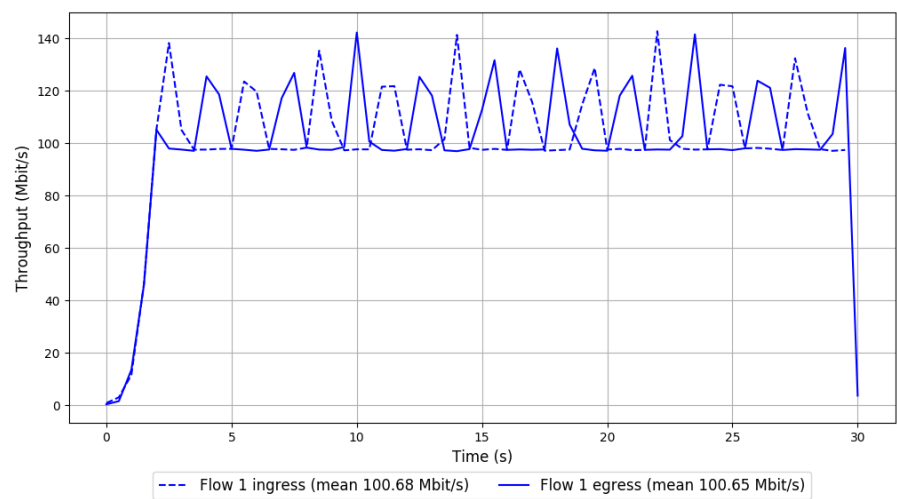
-- Flow 1:

Average throughput: 100.65 Mbit/s

95th percentile per-packet one-way delay: 127.580 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 01:43:36

End at: 2018-01-16 01:44:06

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 115.375 ms

Loss rate: 0.00%

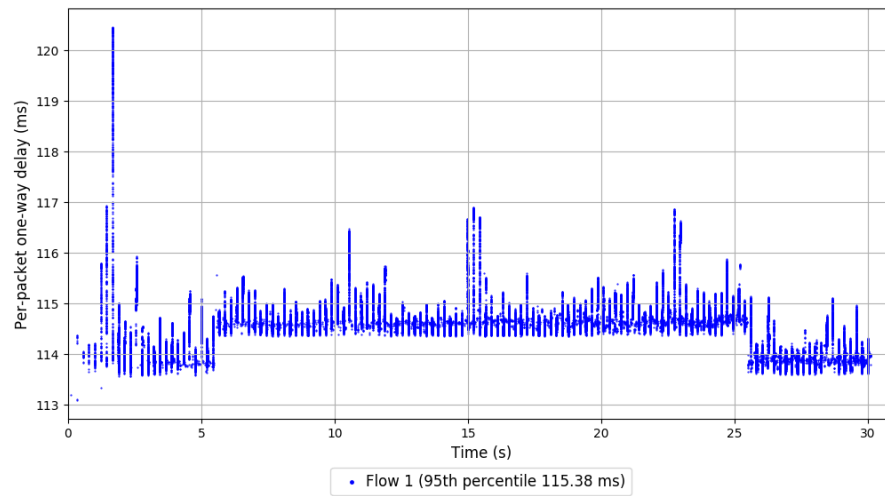
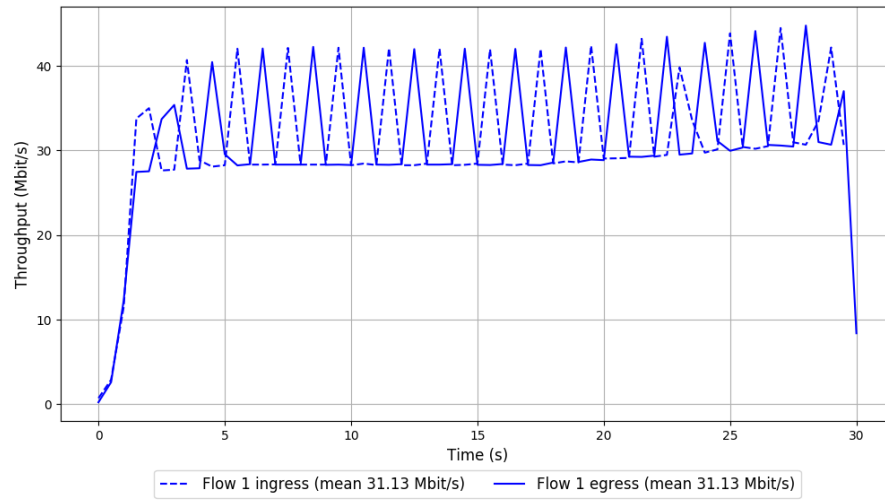
-- Flow 1:

Average throughput: 31.13 Mbit/s

95th percentile per-packet one-way delay: 115.375 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 01:55:57

End at: 2018-01-16 01:56:27

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.11 Mbit/s

95th percentile per-packet one-way delay: 118.931 ms

Loss rate: 0.00%

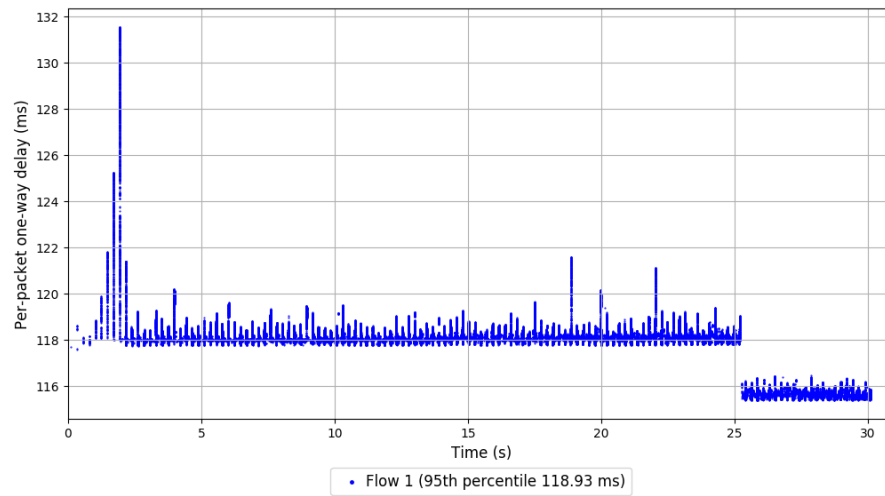
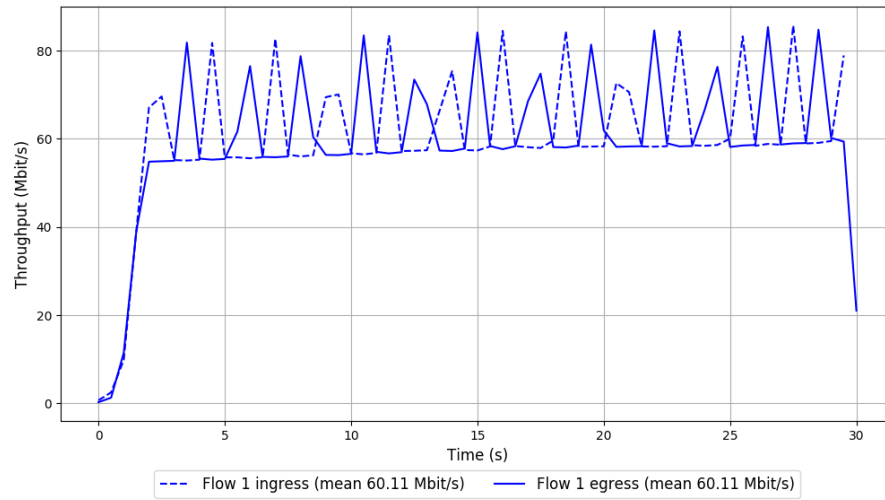
-- Flow 1:

Average throughput: 60.11 Mbit/s

95th percentile per-packet one-way delay: 118.931 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 02:08:24

End at: 2018-01-16 02:08:54

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 131.090 ms

Loss rate: 0.29%

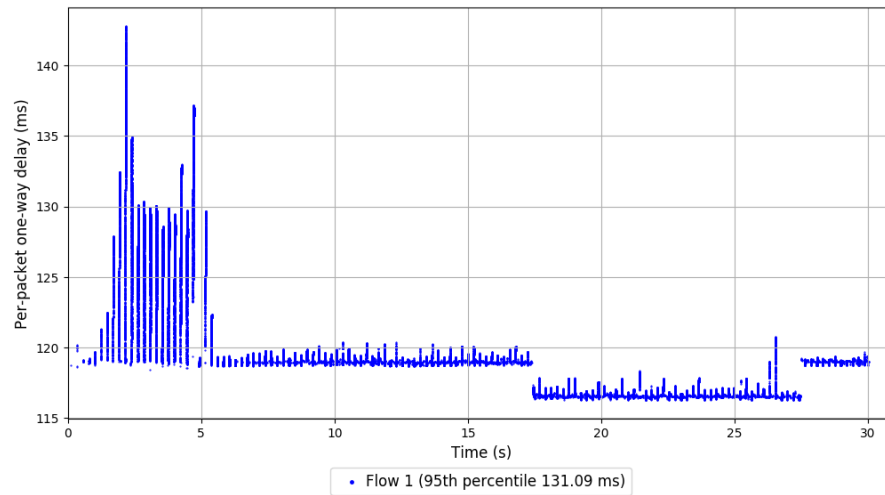
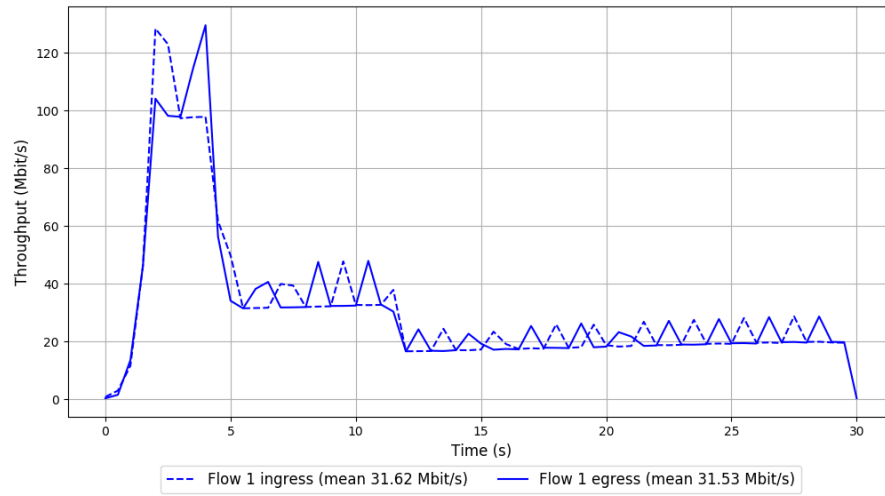
-- Flow 1:

Average throughput: 31.53 Mbit/s

95th percentile per-packet one-way delay: 131.090 ms

Loss rate: 0.29%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-16 02:20:36

End at: 2018-01-16 02:21:06

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 119.785 ms

Loss rate: 0.09%

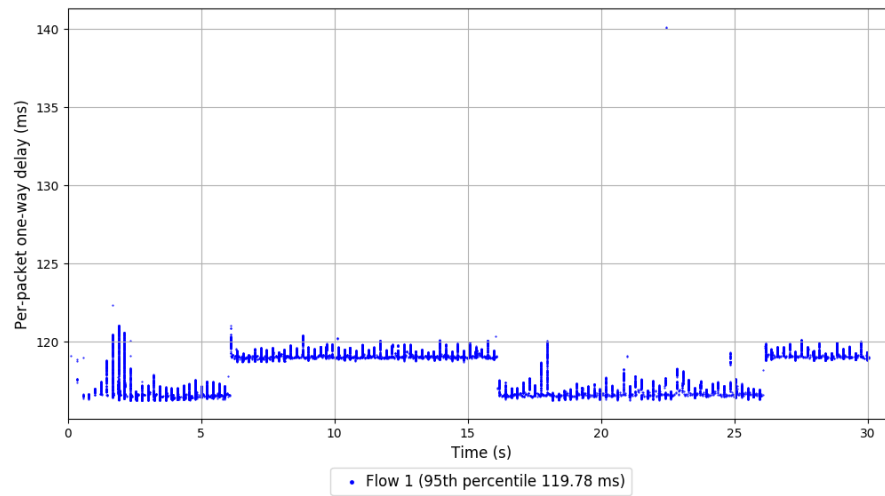
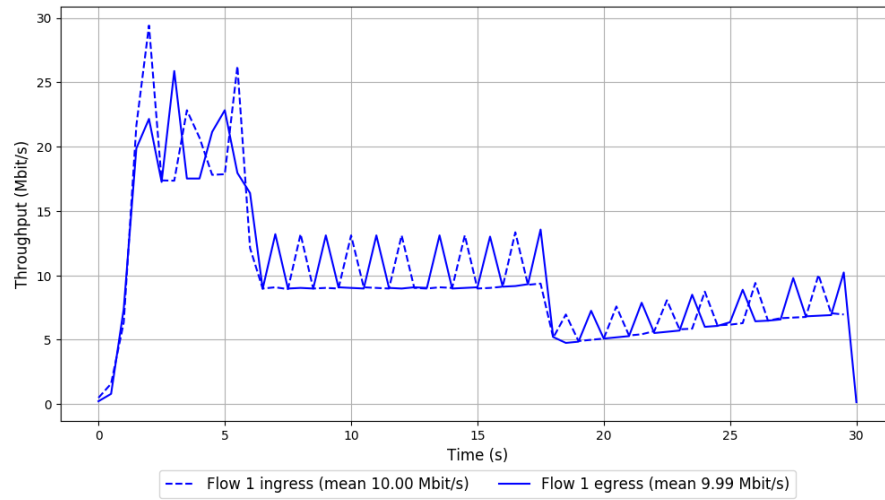
-- Flow 1:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 119.785 ms

Loss rate: 0.09%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 02:32:37

End at: 2018-01-16 02:33:08

Below is generated by plot.py at 2018-01-16 03:56:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 119.000 ms

Loss rate: 0.00%

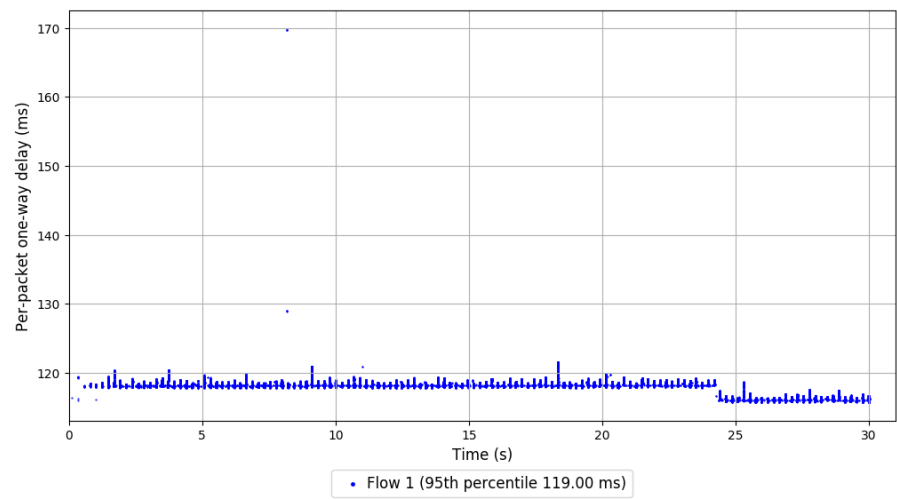
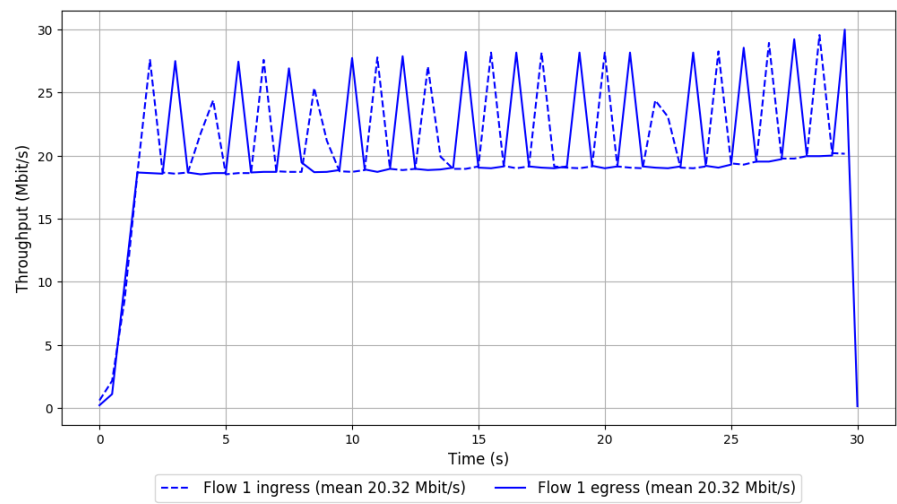
-- Flow 1:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 119.000 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-16 00:40:16

End at: 2018-01-16 00:40:46

Below is generated by plot.py at 2018-01-16 03:56:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.75 Mbit/s

95th percentile per-packet one-way delay: 306.552 ms

Loss rate: 2.23%

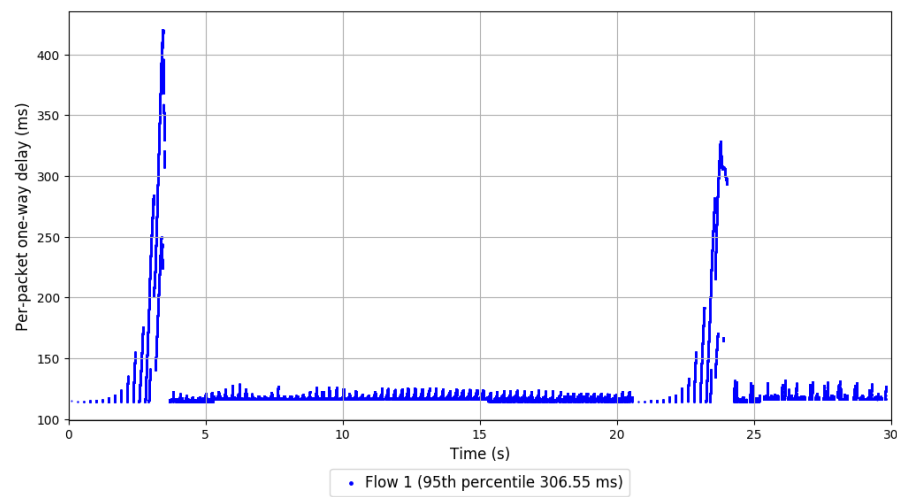
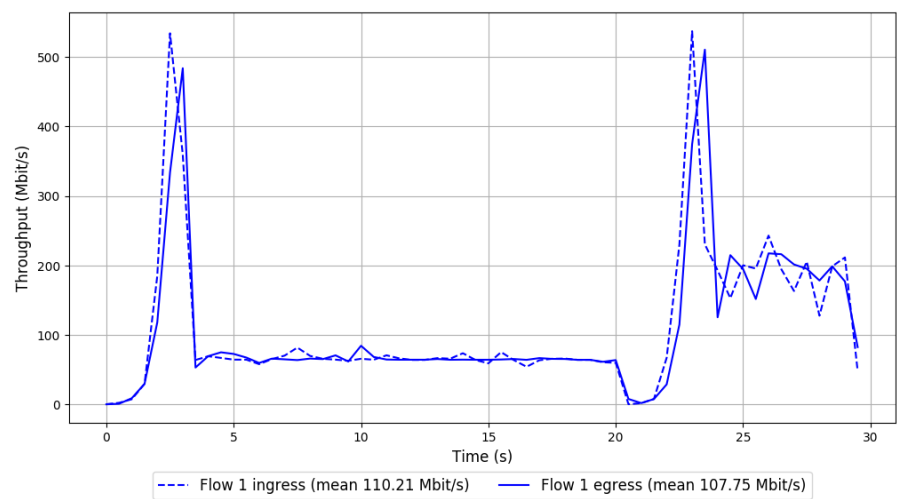
-- Flow 1:

Average throughput: 107.75 Mbit/s

95th percentile per-packet one-way delay: 306.552 ms

Loss rate: 2.23%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 00:52:37

End at: 2018-01-16 00:53:07

Below is generated by plot.py at 2018-01-16 03:57:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.63 Mbit/s

95th percentile per-packet one-way delay: 216.029 ms

Loss rate: 3.20%

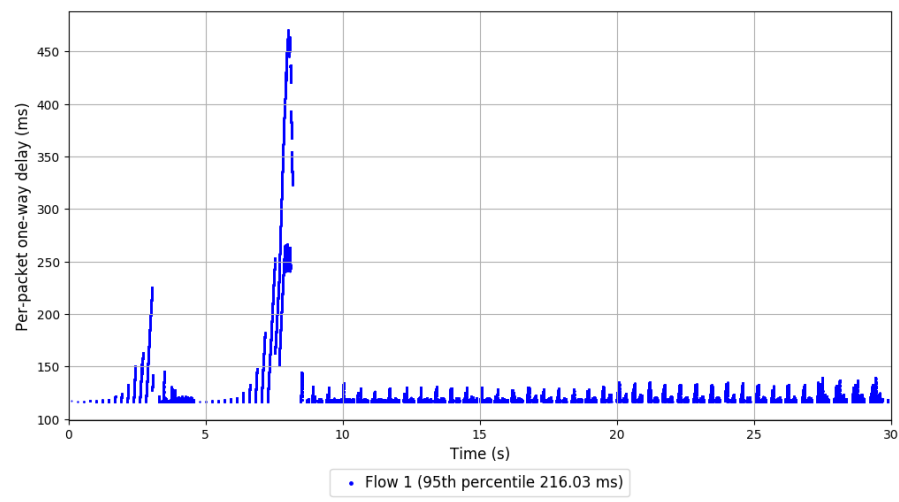
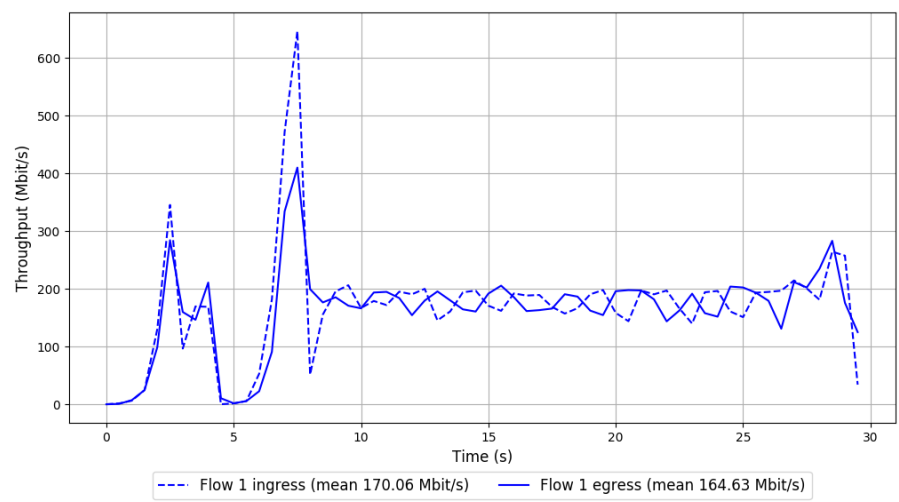
-- Flow 1:

Average throughput: 164.63 Mbit/s

95th percentile per-packet one-way delay: 216.029 ms

Loss rate: 3.20%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 01:05:00

End at: 2018-01-16 01:05:30

Below is generated by plot.py at 2018-01-16 03:58:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.07 Mbit/s

95th percentile per-packet one-way delay: 199.629 ms

Loss rate: 3.58%

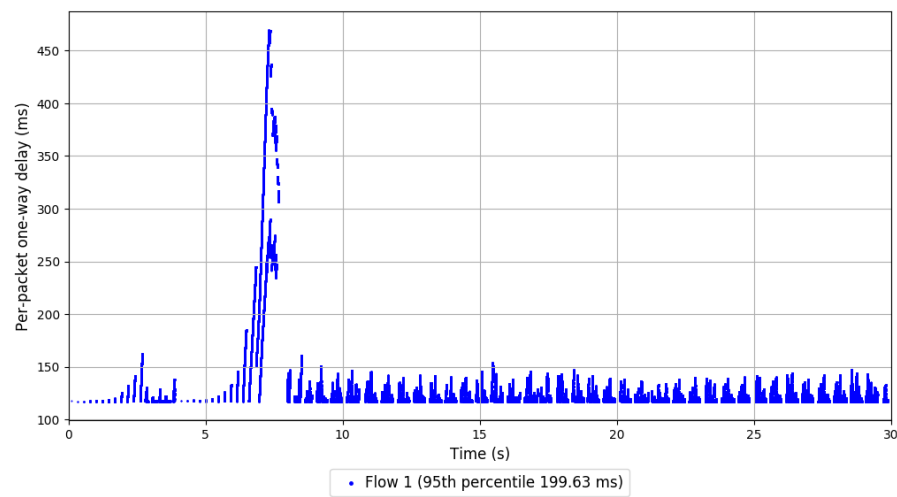
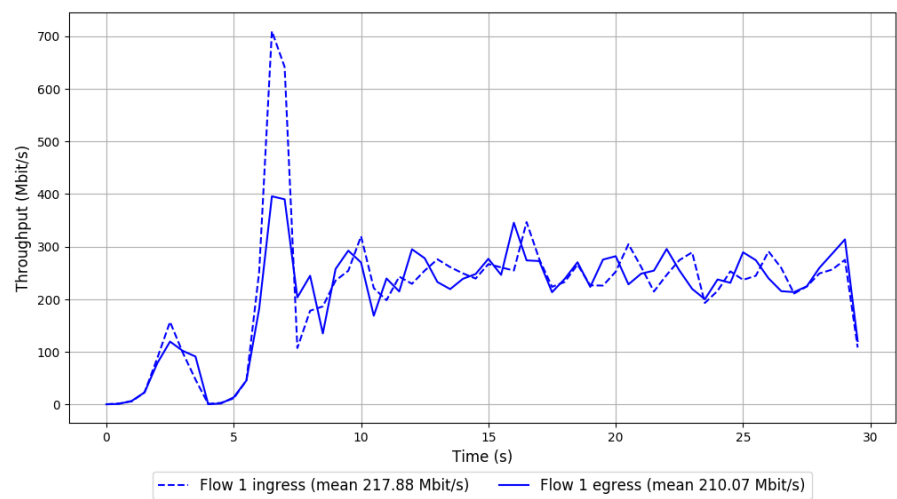
-- Flow 1:

Average throughput: 210.07 Mbit/s

95th percentile per-packet one-way delay: 199.629 ms

Loss rate: 3.58%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-16 01:17:16

End at: 2018-01-16 01:17:46

Below is generated by plot.py at 2018-01-16 03:58:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.80 Mbit/s

95th percentile per-packet one-way delay: 153.656 ms

Loss rate: 0.38%

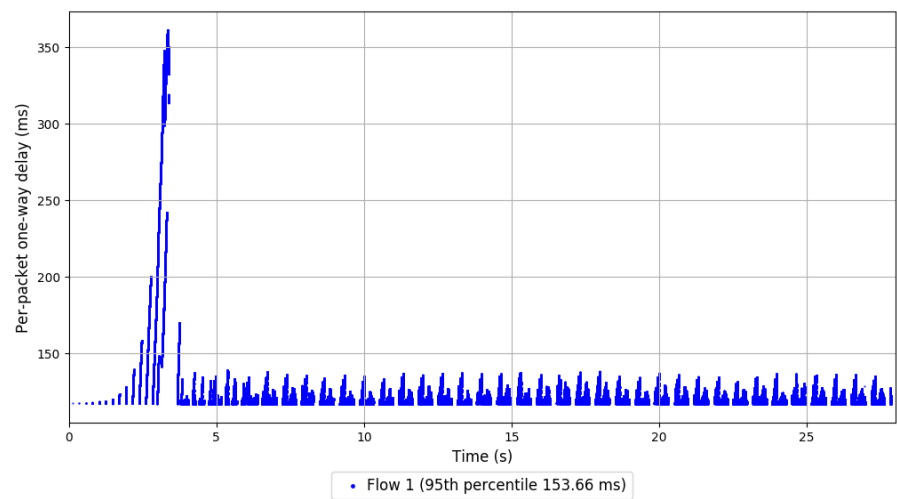
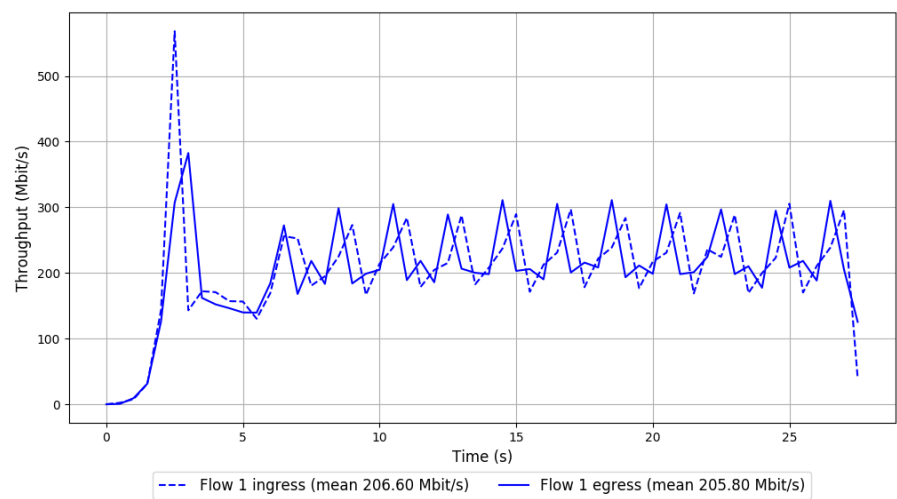
-- Flow 1:

Average throughput: 205.80 Mbit/s

95th percentile per-packet one-way delay: 153.656 ms

Loss rate: 0.38%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 01:29:25

End at: 2018-01-16 01:29:55

Below is generated by plot.py at 2018-01-16 03:58:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.22 Mbit/s

95th percentile per-packet one-way delay: 231.719 ms

Loss rate: 3.64%

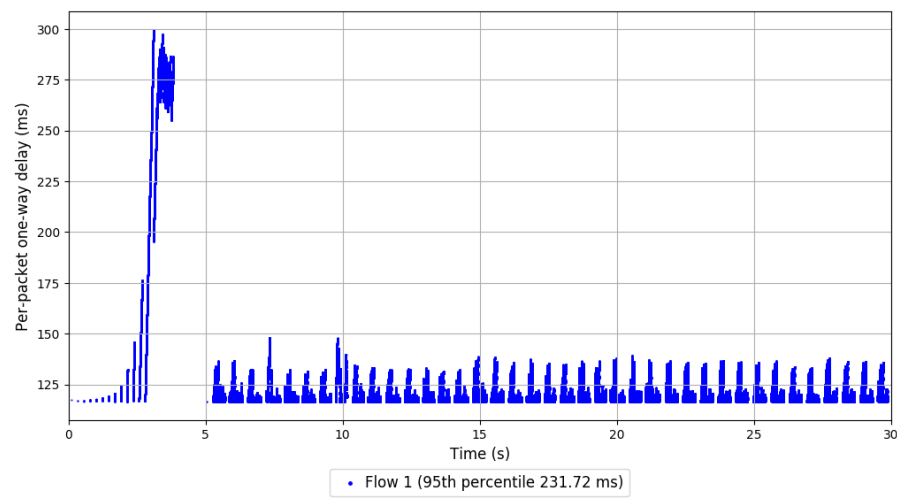
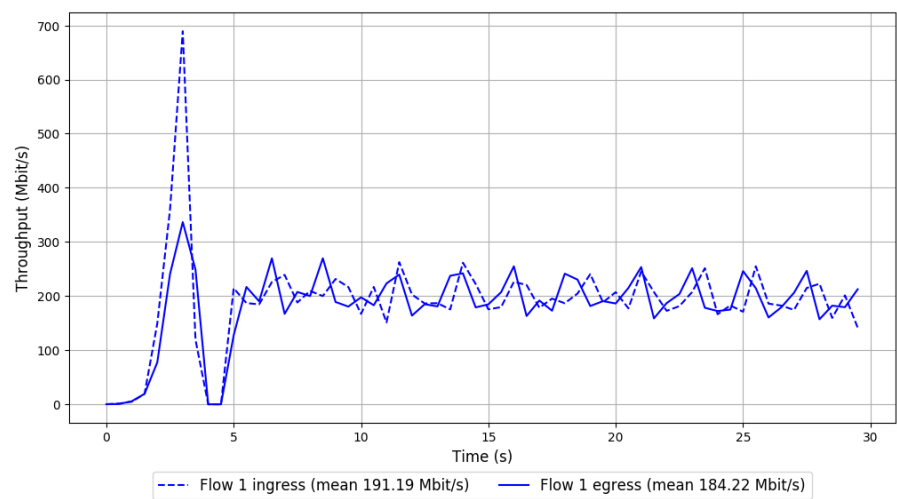
-- Flow 1:

Average throughput: 184.22 Mbit/s

95th percentile per-packet one-way delay: 231.719 ms

Loss rate: 3.64%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-16 01:42:00

End at: 2018-01-16 01:42:30

Below is generated by plot.py at 2018-01-16 03:58:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.23 Mbit/s

95th percentile per-packet one-way delay: 241.470 ms

Loss rate: 3.86%

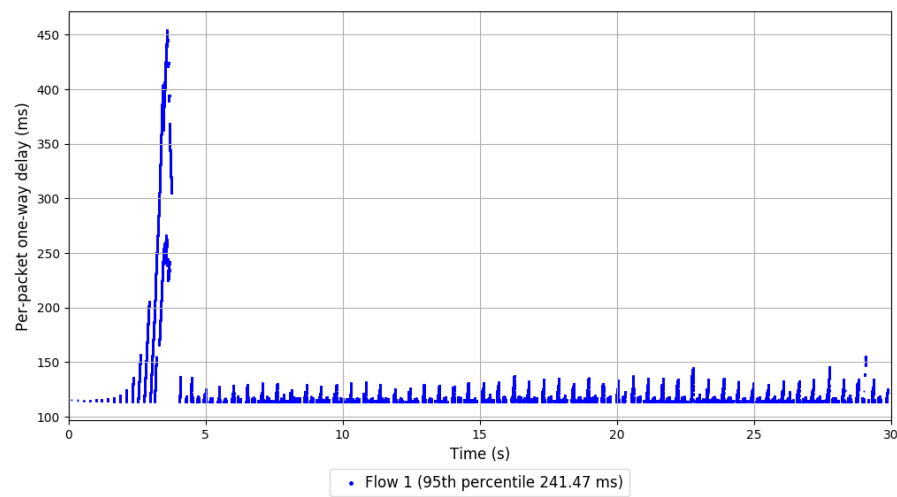
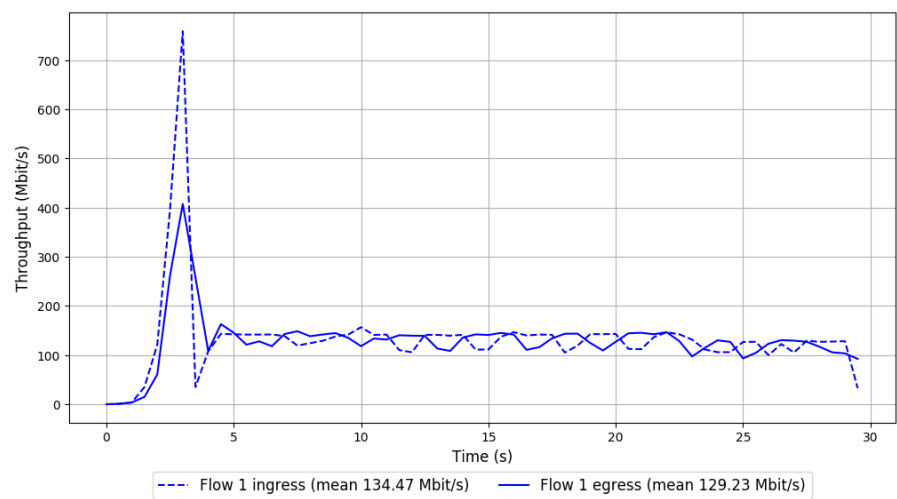
-- Flow 1:

Average throughput: 129.23 Mbit/s

95th percentile per-packet one-way delay: 241.470 ms

Loss rate: 3.86%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-16 01:54:15

End at: 2018-01-16 01:54:45

Below is generated by plot.py at 2018-01-16 03:59:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.47 Mbit/s

95th percentile per-packet one-way delay: 171.252 ms

Loss rate: 2.07%

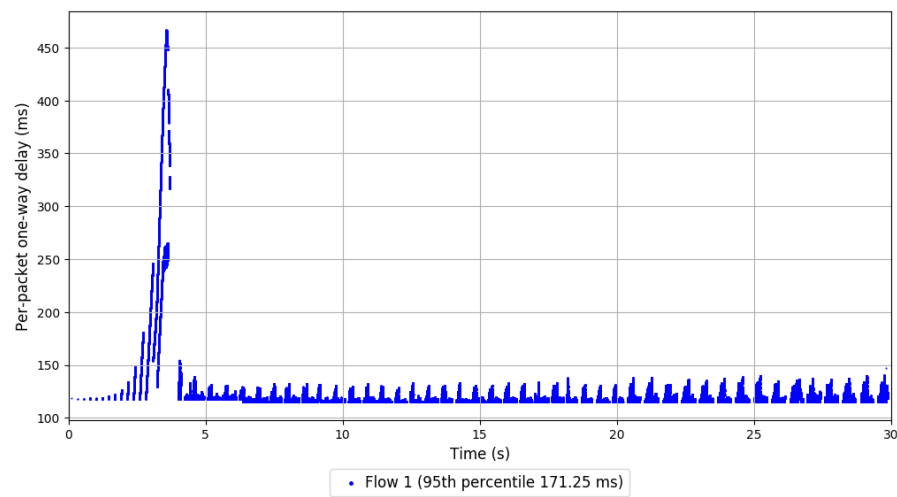
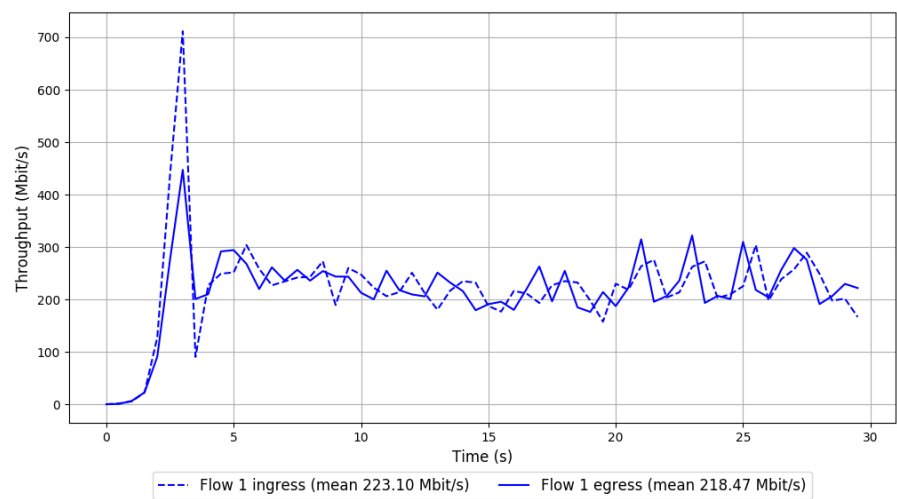
-- Flow 1:

Average throughput: 218.47 Mbit/s

95th percentile per-packet one-way delay: 171.252 ms

Loss rate: 2.07%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-16 02:06:39

End at: 2018-01-16 02:07:09

Below is generated by plot.py at 2018-01-16 03:59:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.95 Mbit/s

95th percentile per-packet one-way delay: 196.350 ms

Loss rate: 3.59%

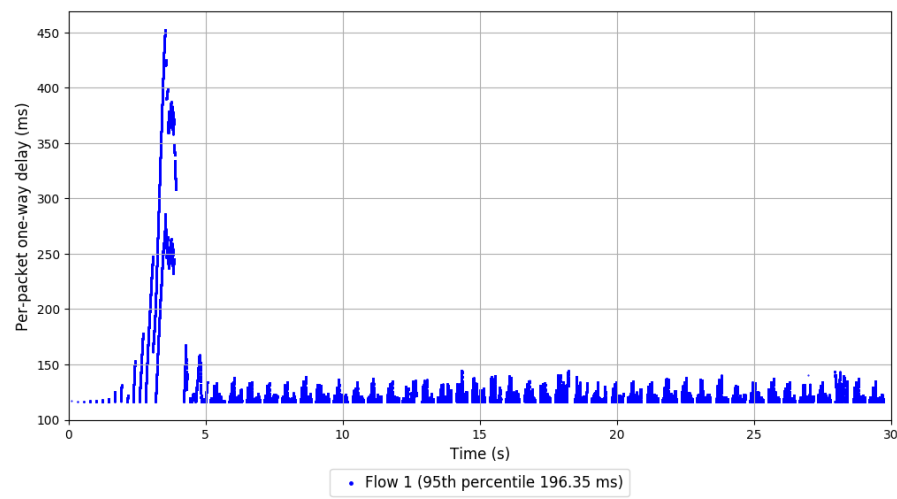
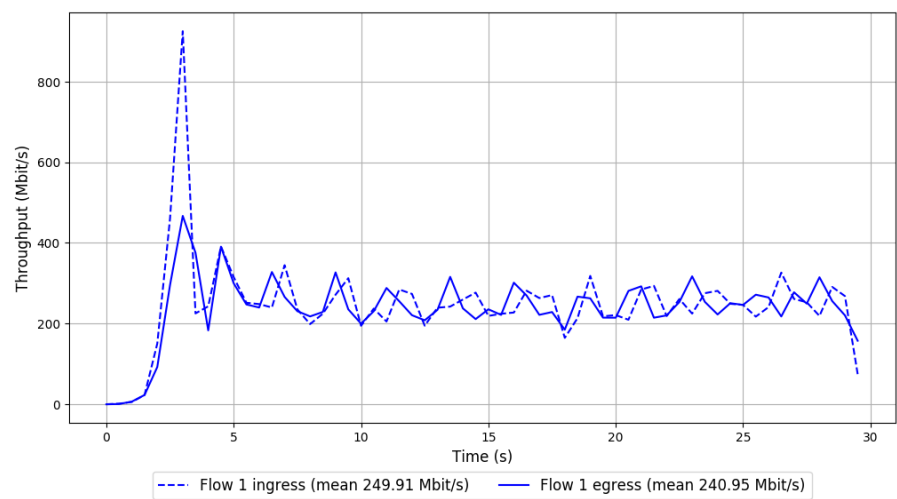
-- Flow 1:

Average throughput: 240.95 Mbit/s

95th percentile per-packet one-way delay: 196.350 ms

Loss rate: 3.59%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-16 02:18:59

End at: 2018-01-16 02:19:29

Below is generated by plot.py at 2018-01-16 03:59:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.66 Mbit/s

95th percentile per-packet one-way delay: 231.579 ms

Loss rate: 1.75%

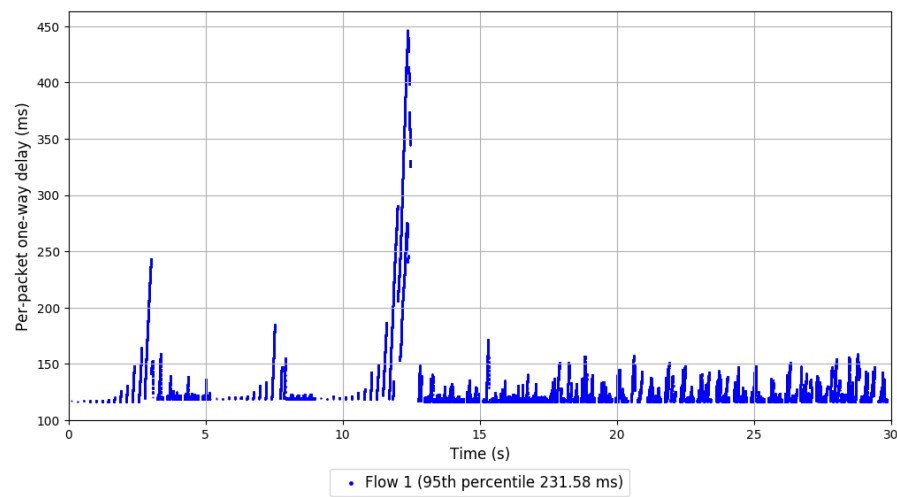
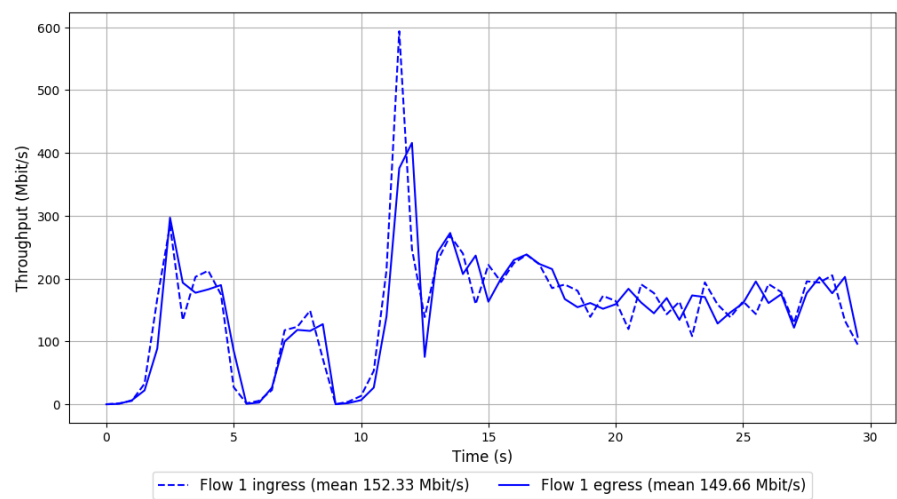
-- Flow 1:

Average throughput: 149.66 Mbit/s

95th percentile per-packet one-way delay: 231.579 ms

Loss rate: 1.75%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-16 02:31:05

End at: 2018-01-16 02:31:35

Below is generated by plot.py at 2018-01-16 03:59:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.87 Mbit/s

95th percentile per-packet one-way delay: 280.406 ms

Loss rate: 0.96%

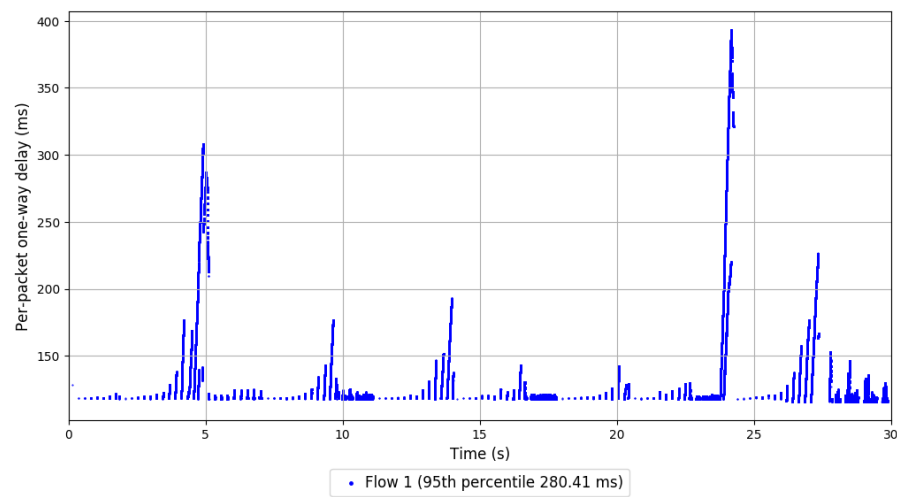
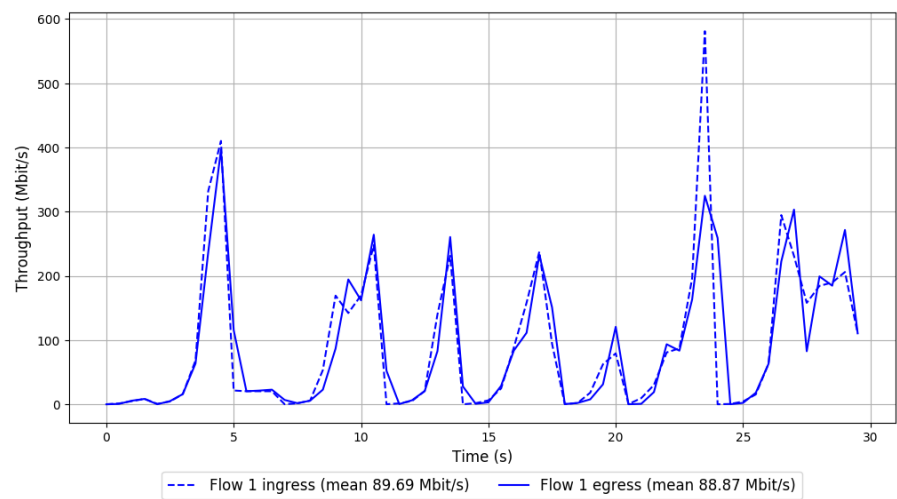
-- Flow 1:

Average throughput: 88.87 Mbit/s

95th percentile per-packet one-way delay: 280.406 ms

Loss rate: 0.96%

Run 10: Report of Verus — Data Link

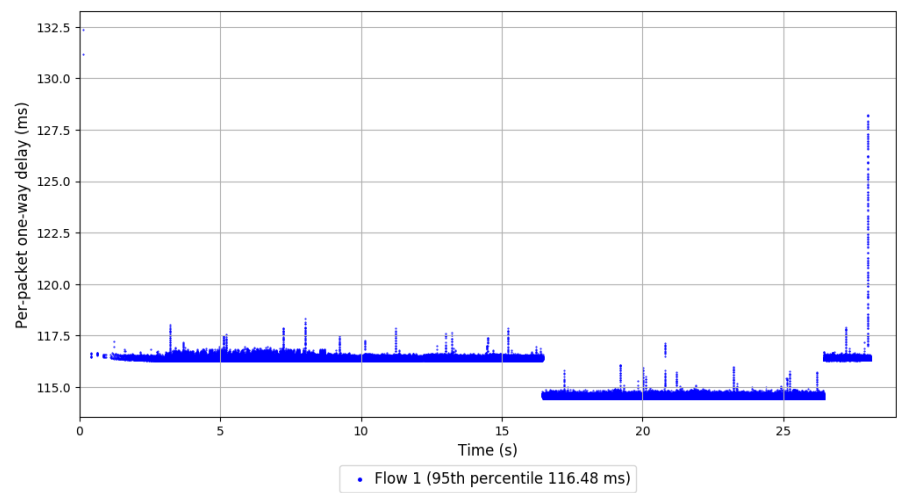
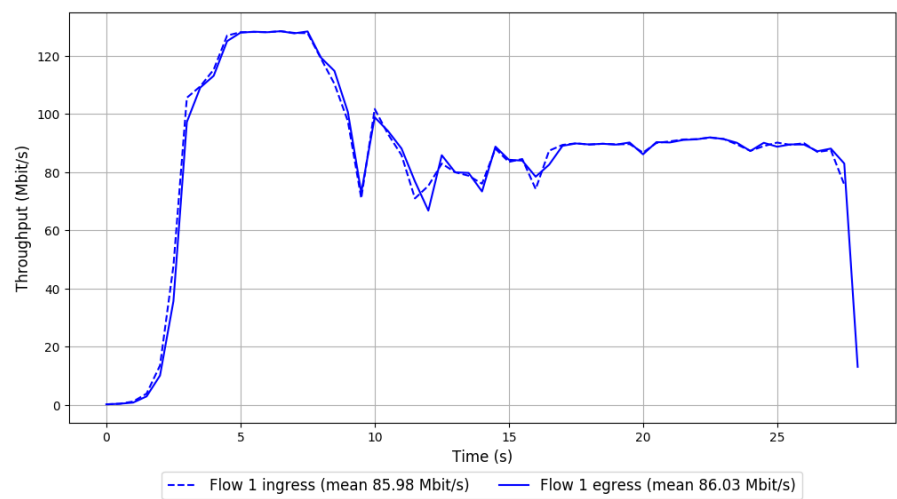


```
Run 1: Statistics of Copa

Start at: 2018-01-16 00:45:03
End at: 2018-01-16 00:45:33

# Below is generated by plot.py at 2018-01-16 04:00:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.03 Mbit/s
95th percentile per-packet one-way delay: 116.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.03 Mbit/s
95th percentile per-packet one-way delay: 116.478 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-16 00:57:28

End at: 2018-01-16 00:57:58

Below is generated by plot.py at 2018-01-16 04:00:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 116.587 ms

Loss rate: 0.00%

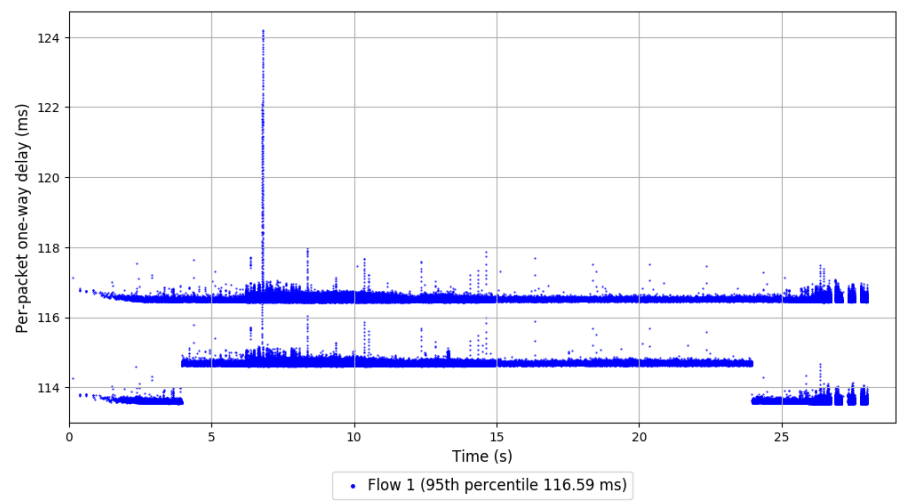
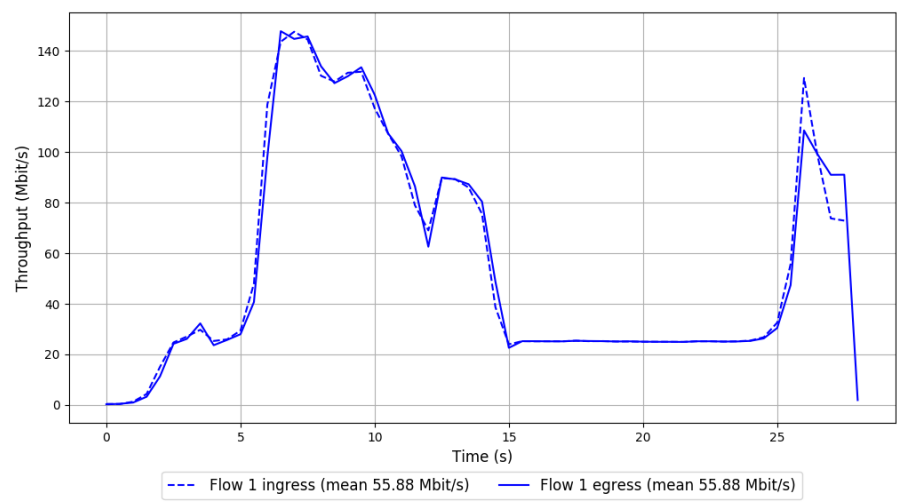
-- Flow 1:

Average throughput: 55.88 Mbit/s

95th percentile per-packet one-way delay: 116.587 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-16 01:09:46

End at: 2018-01-16 01:10:16

Below is generated by plot.py at 2018-01-16 04:00:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 117.125 ms

Loss rate: 0.00%

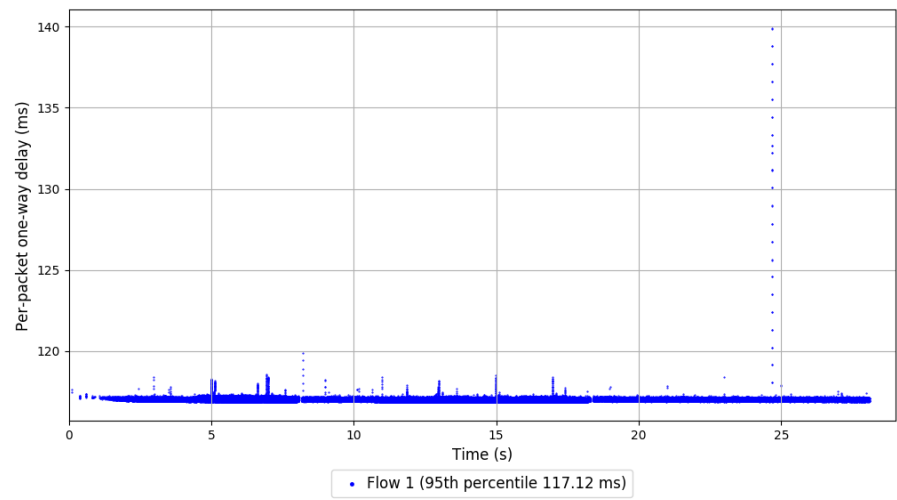
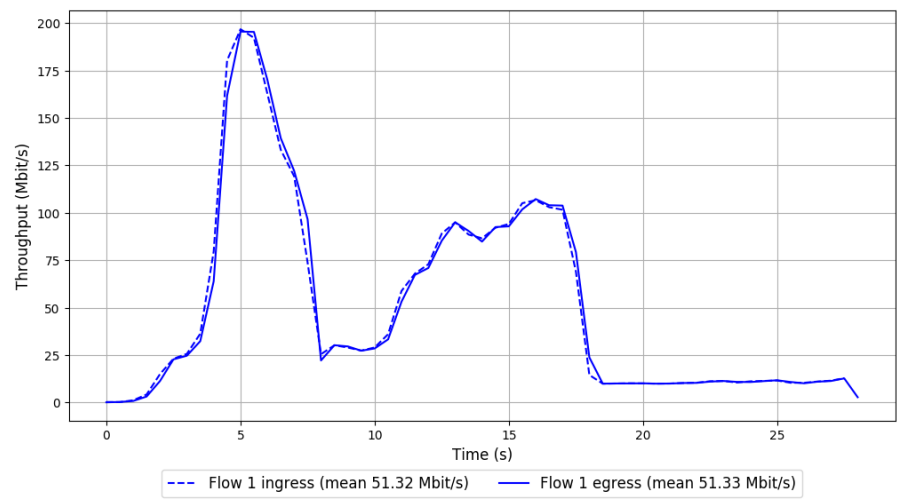
-- Flow 1:

Average throughput: 51.33 Mbit/s

95th percentile per-packet one-way delay: 117.125 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 01:22:11

End at: 2018-01-16 01:22:41

Below is generated by plot.py at 2018-01-16 04:00:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.62 Mbit/s

95th percentile per-packet one-way delay: 116.861 ms

Loss rate: 0.00%

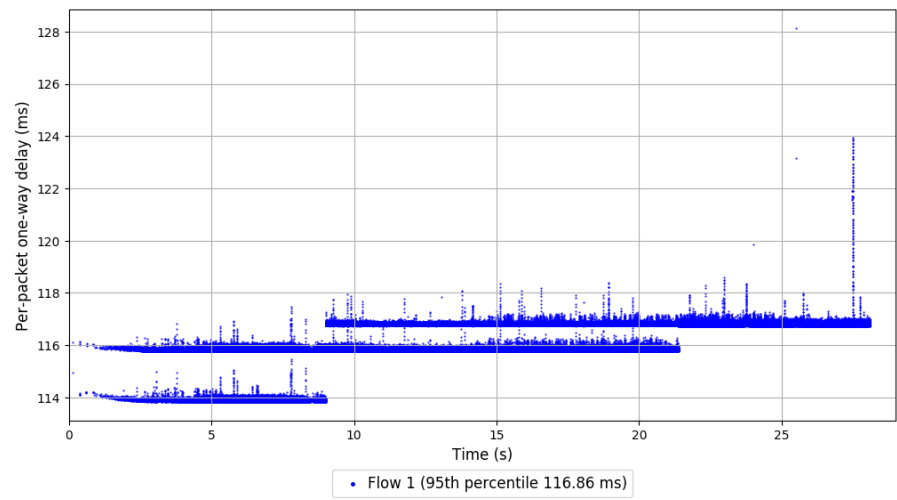
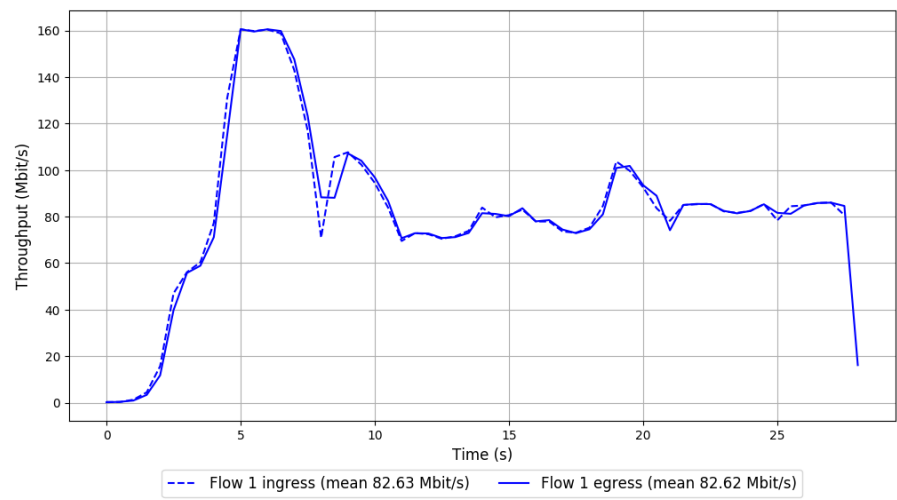
-- Flow 1:

Average throughput: 82.62 Mbit/s

95th percentile per-packet one-way delay: 116.861 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-16 01:34:25

End at: 2018-01-16 01:34:55

Below is generated by plot.py at 2018-01-16 04:01:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.36 Mbit/s

95th percentile per-packet one-way delay: 116.418 ms

Loss rate: 0.00%

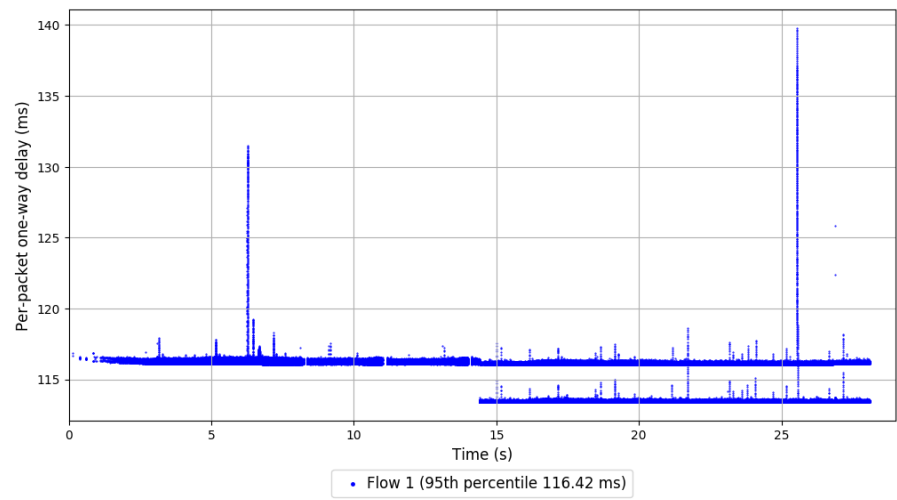
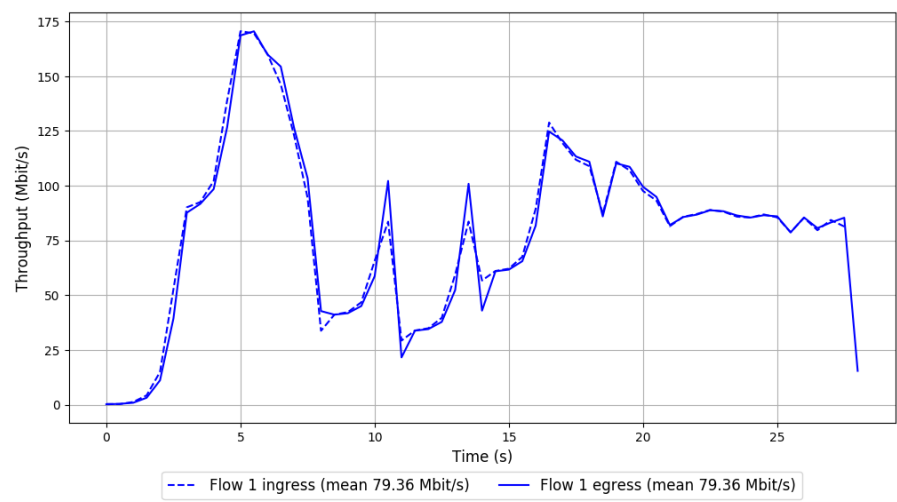
-- Flow 1:

Average throughput: 79.36 Mbit/s

95th percentile per-packet one-way delay: 116.418 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-16 01:46:40

End at: 2018-01-16 01:47:10

Below is generated by plot.py at 2018-01-16 04:01:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 116.667 ms

Loss rate: 0.00%

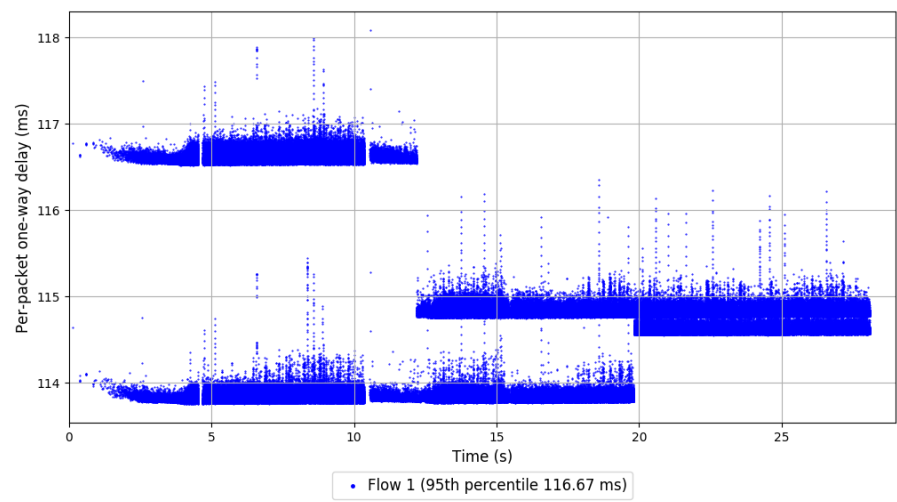
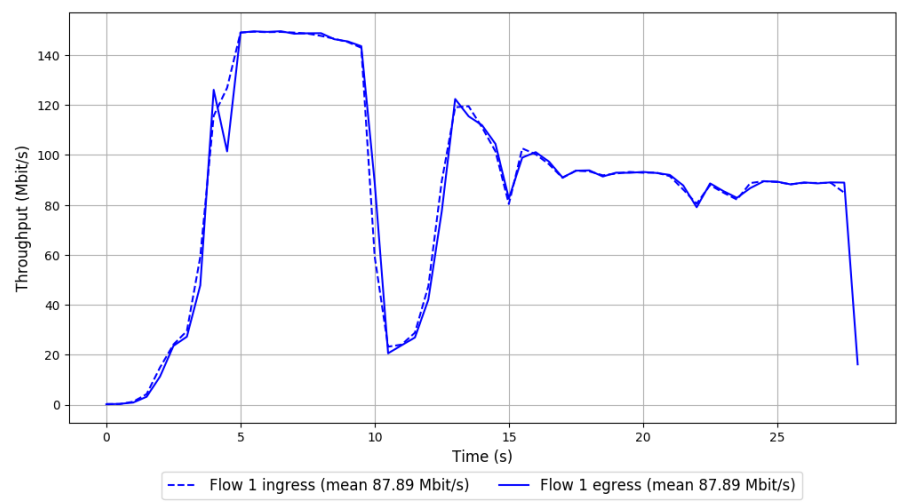
-- Flow 1:

Average throughput: 87.89 Mbit/s

95th percentile per-packet one-way delay: 116.667 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-16 01:59:07

End at: 2018-01-16 01:59:37

Below is generated by plot.py at 2018-01-16 04:01:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.67 Mbit/s

95th percentile per-packet one-way delay: 118.223 ms

Loss rate: 0.00%

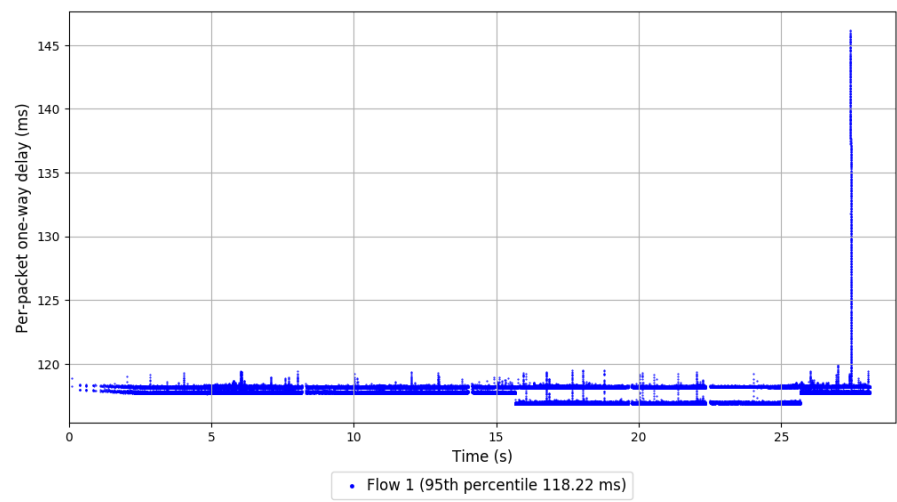
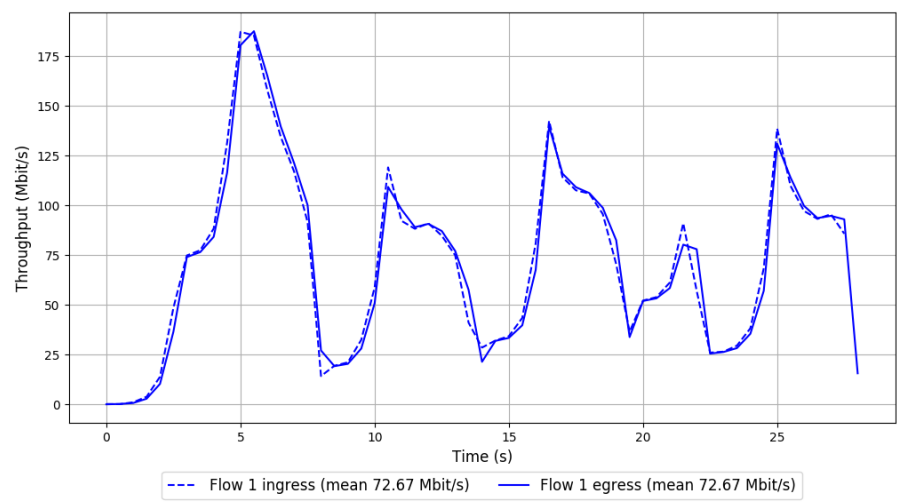
-- Flow 1:

Average throughput: 72.67 Mbit/s

95th percentile per-packet one-way delay: 118.223 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-16 02:11:24

End at: 2018-01-16 02:11:54

Below is generated by plot.py at 2018-01-16 04:01:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 118.882 ms

Loss rate: 0.00%

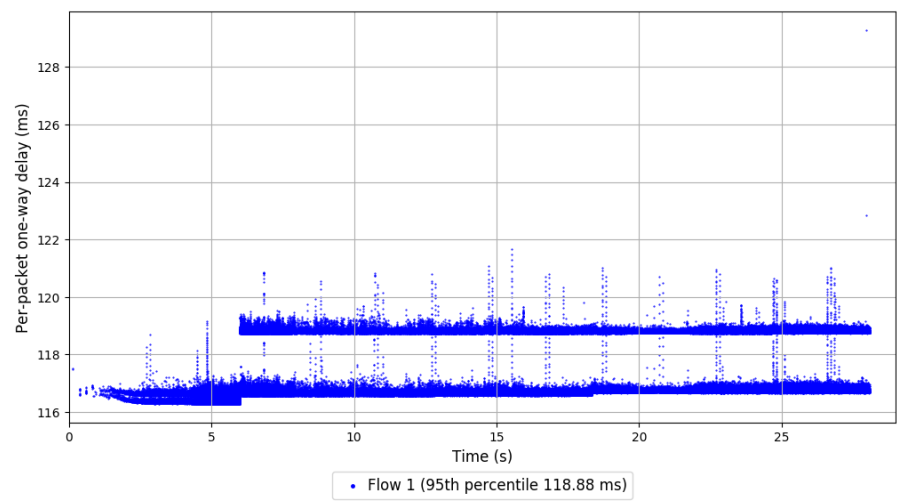
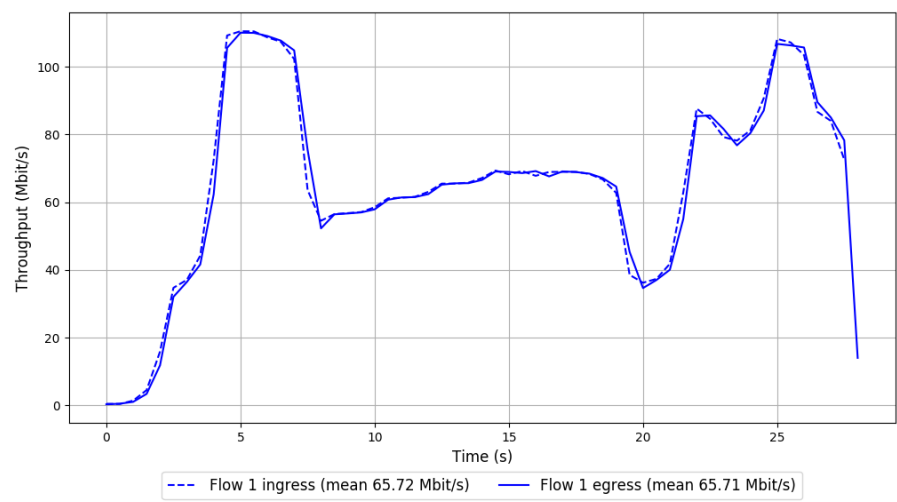
-- Flow 1:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 118.882 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-16 02:23:39

End at: 2018-01-16 02:24:09

Below is generated by plot.py at 2018-01-16 04:01:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 118.383 ms

Loss rate: 0.00%

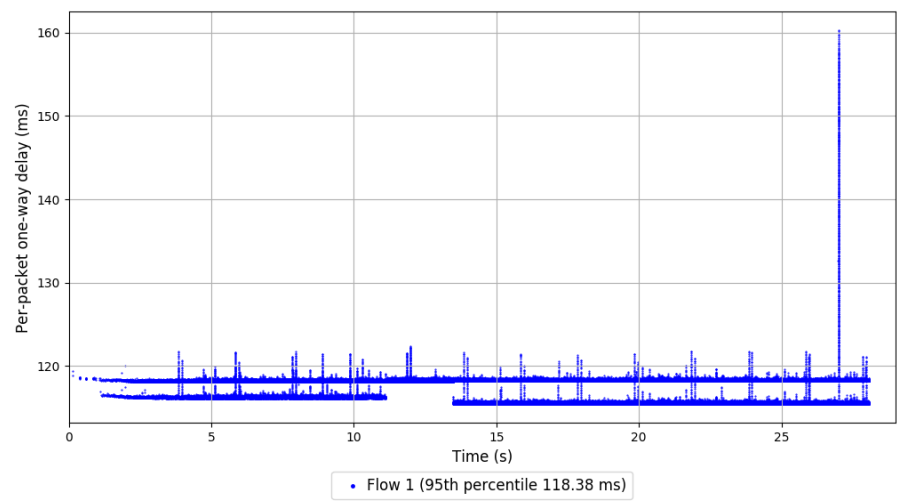
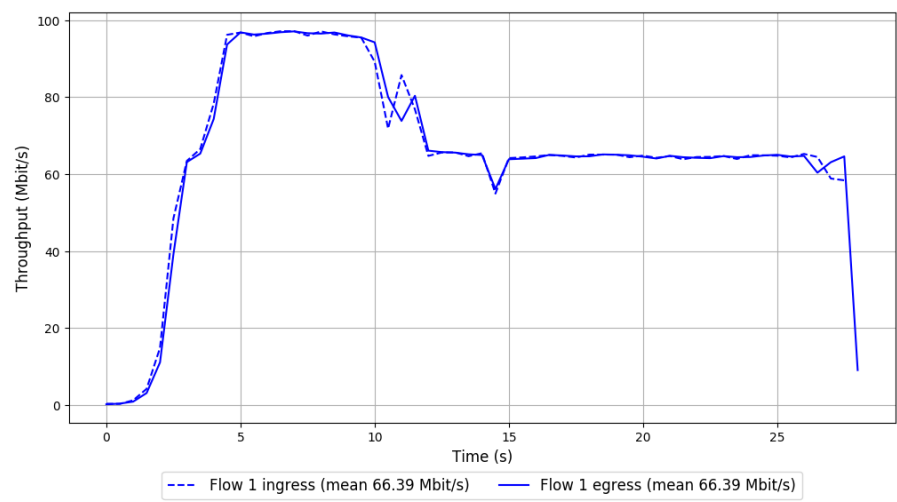
-- Flow 1:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 118.383 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-16 02:35:48

End at: 2018-01-16 02:36:18

Below is generated by plot.py at 2018-01-16 04:01:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 117.887 ms

Loss rate: 0.00%

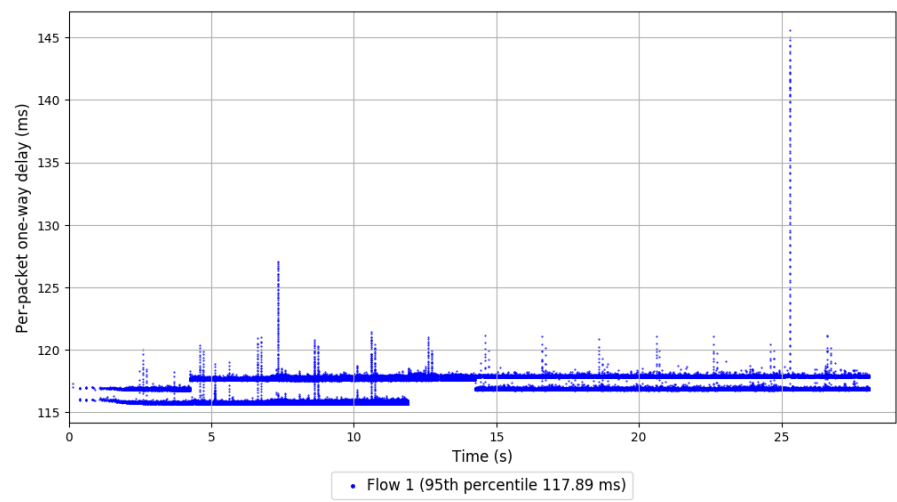
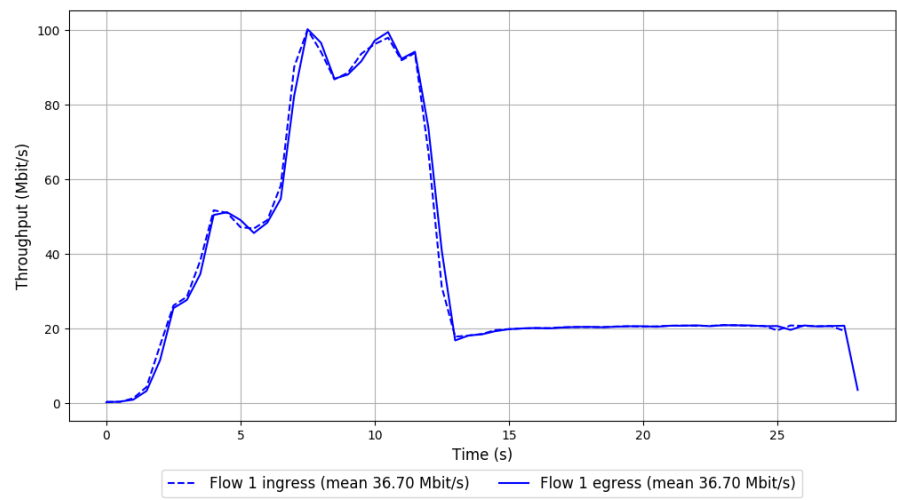
-- Flow 1:

Average throughput: 36.70 Mbit/s

95th percentile per-packet one-way delay: 117.887 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

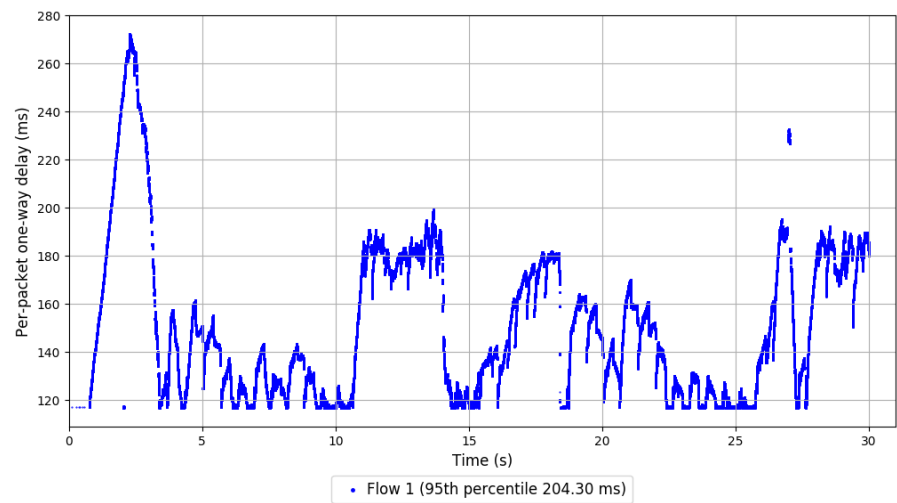
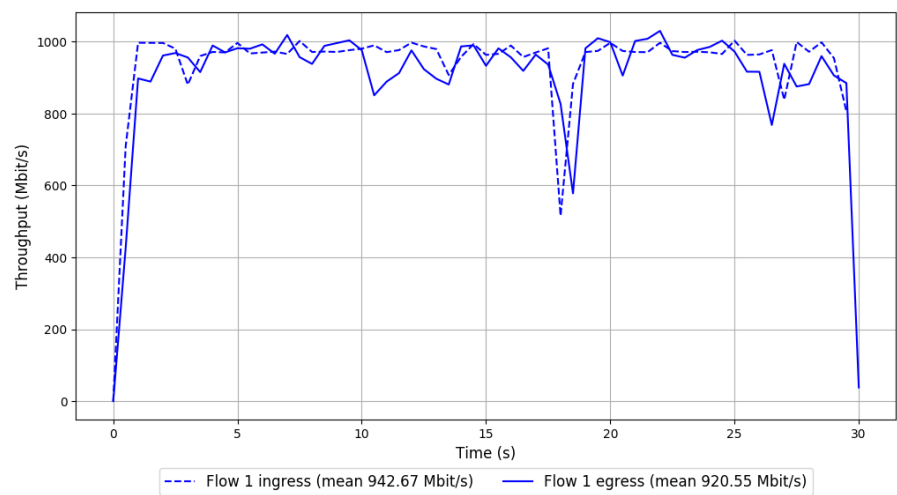


```
Run 1: Statistics of FillP

Start at: 2018-01-16 00:49:44
End at: 2018-01-16 00:50:14

# Below is generated by plot.py at 2018-01-16 04:15:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 920.55 Mbit/s
95th percentile per-packet one-way delay: 204.300 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 920.55 Mbit/s
95th percentile per-packet one-way delay: 204.300 ms
Loss rate: 2.35%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-16 01:02:07

End at: 2018-01-16 01:02:37

Below is generated by plot.py at 2018-01-16 04:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 951.05 Mbit/s

95th percentile per-packet one-way delay: 176.521 ms

Loss rate: 0.68%

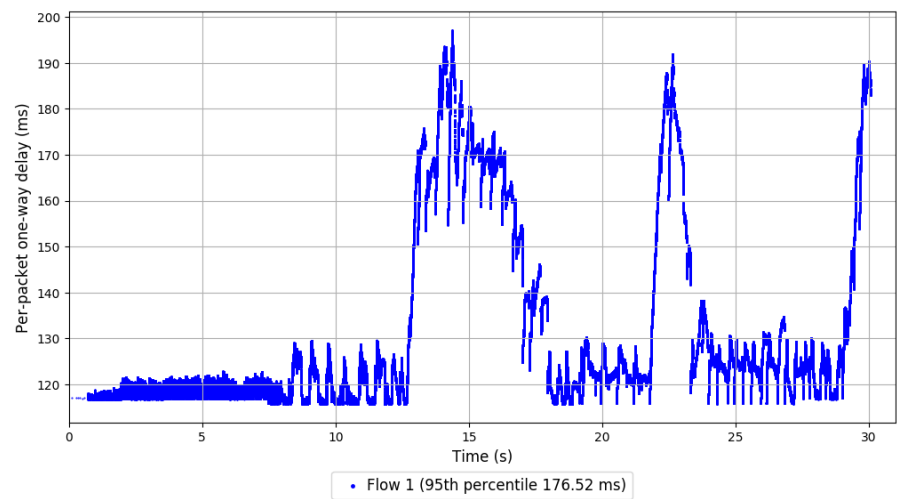
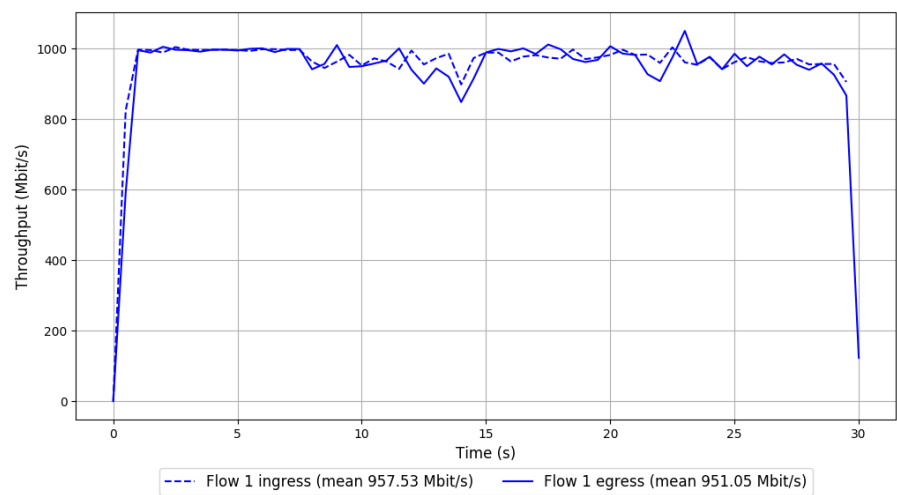
-- Flow 1:

Average throughput: 951.05 Mbit/s

95th percentile per-packet one-way delay: 176.521 ms

Loss rate: 0.68%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 01:14:25

End at: 2018-01-16 01:14:55

Below is generated by plot.py at 2018-01-16 04:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 914.64 Mbit/s

95th percentile per-packet one-way delay: 179.438 ms

Loss rate: 0.84%

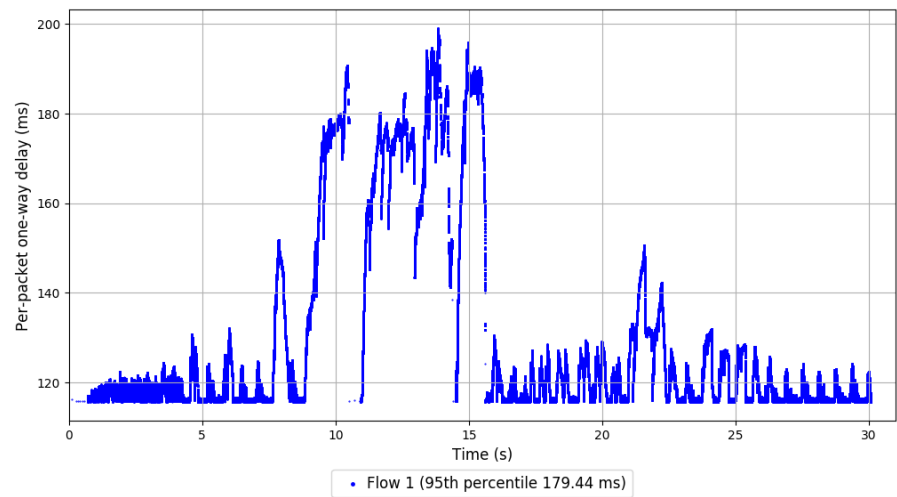
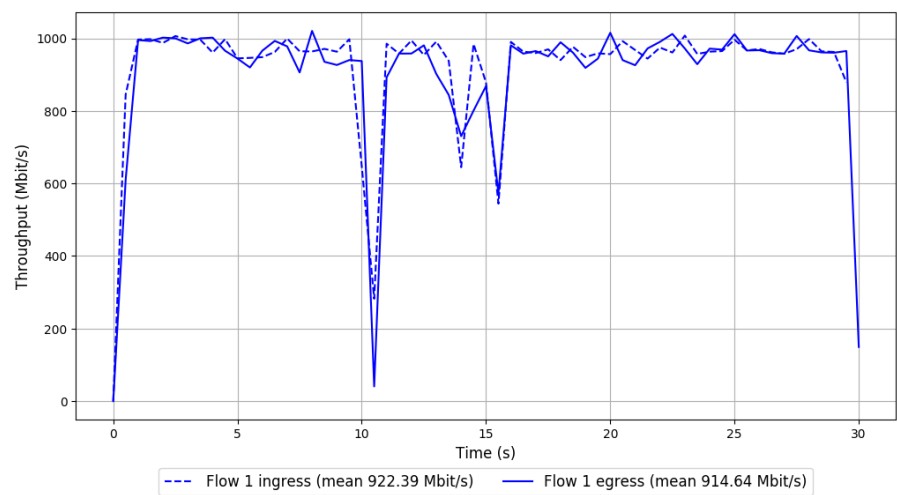
-- Flow 1:

Average throughput: 914.64 Mbit/s

95th percentile per-packet one-way delay: 179.438 ms

Loss rate: 0.84%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 01:26:33

End at: 2018-01-16 01:27:03

Below is generated by plot.py at 2018-01-16 04:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 909.22 Mbit/s

95th percentile per-packet one-way delay: 187.554 ms

Loss rate: 2.65%

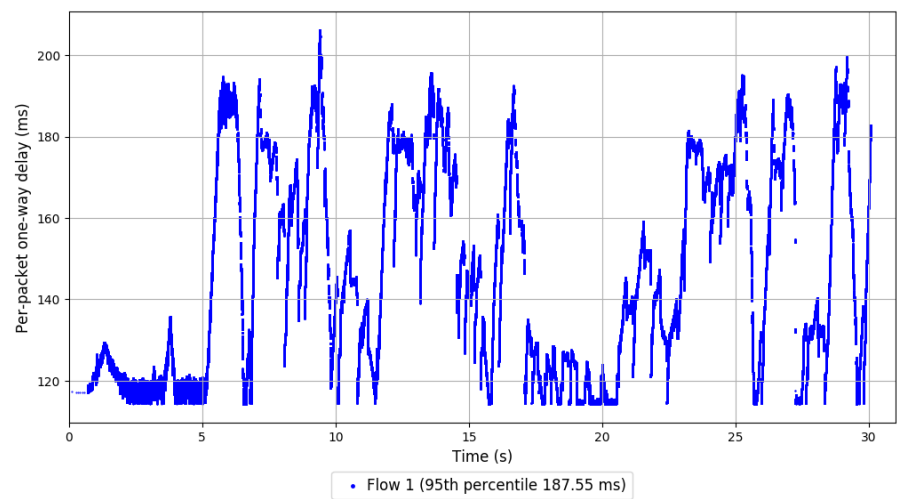
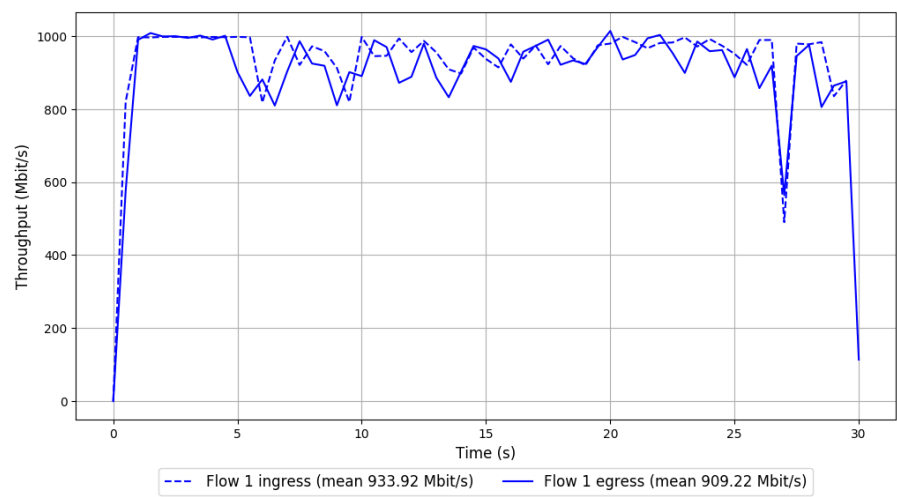
-- Flow 1:

Average throughput: 909.22 Mbit/s

95th percentile per-packet one-way delay: 187.554 ms

Loss rate: 2.65%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 01:39:09

End at: 2018-01-16 01:39:39

Below is generated by plot.py at 2018-01-16 04:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 856.00 Mbit/s

95th percentile per-packet one-way delay: 197.401 ms

Loss rate: 7.26%

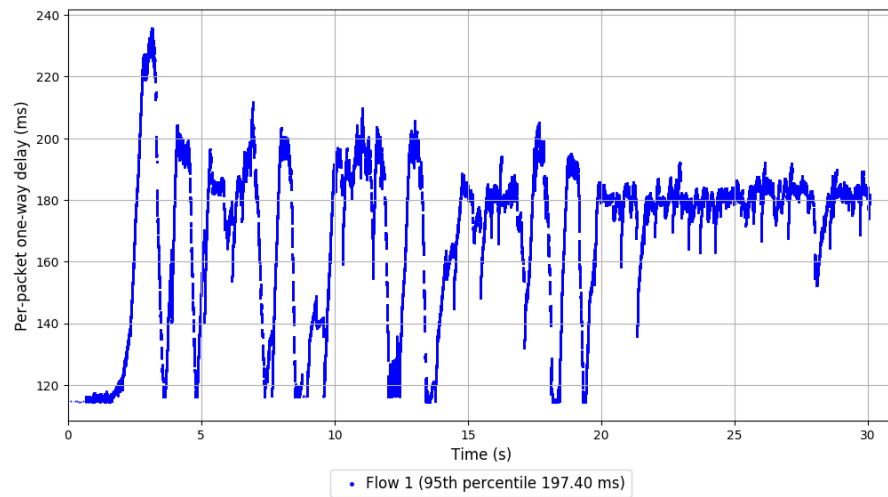
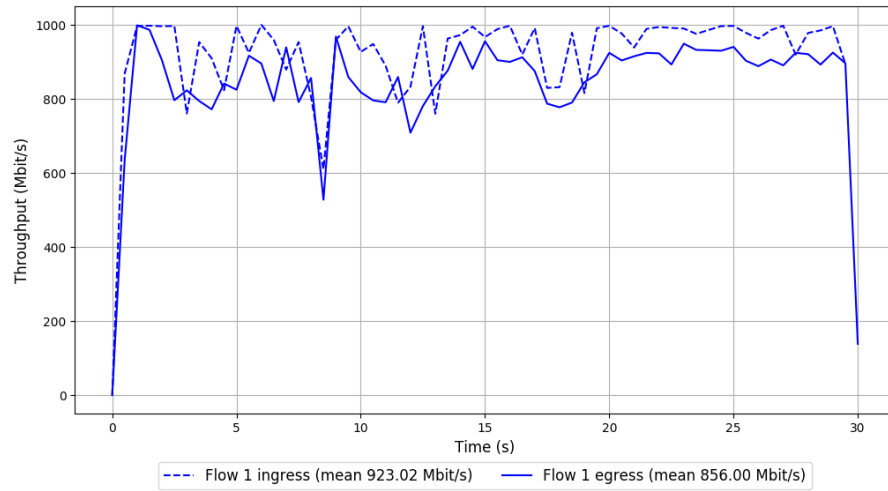
-- Flow 1:

Average throughput: 856.00 Mbit/s

95th percentile per-packet one-way delay: 197.401 ms

Loss rate: 7.26%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-16 01:51:23

End at: 2018-01-16 01:51:53

Below is generated by plot.py at 2018-01-16 04:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 905.82 Mbit/s

95th percentile per-packet one-way delay: 235.921 ms

Loss rate: 3.31%

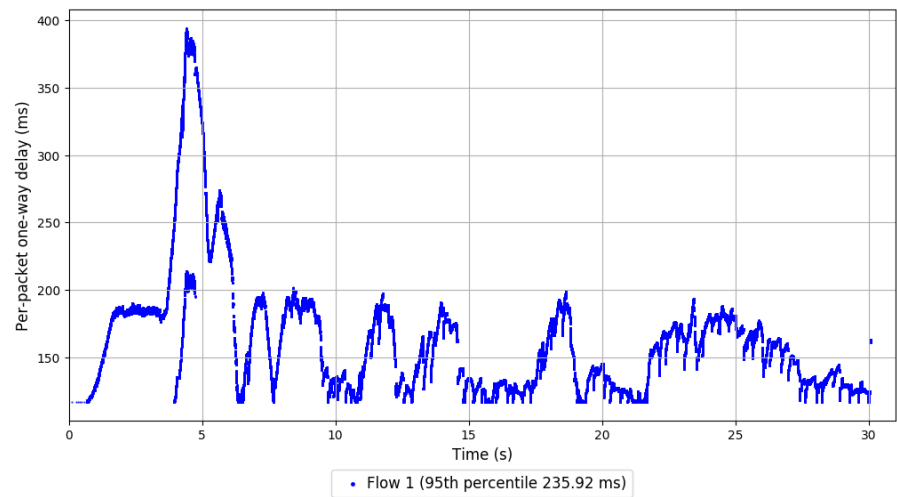
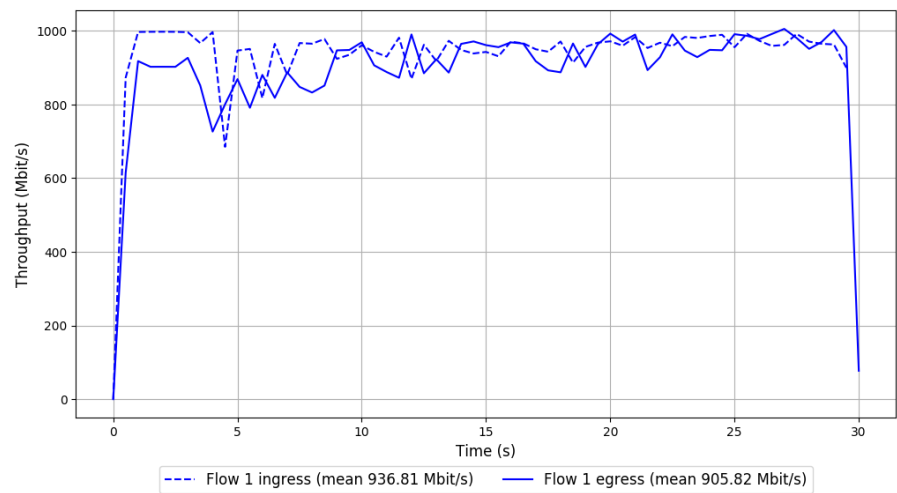
-- Flow 1:

Average throughput: 905.82 Mbit/s

95th percentile per-packet one-way delay: 235.921 ms

Loss rate: 3.31%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-16 02:03:48

End at: 2018-01-16 02:04:18

Below is generated by plot.py at 2018-01-16 04:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 881.61 Mbit/s

95th percentile per-packet one-way delay: 195.265 ms

Loss rate: 4.17%

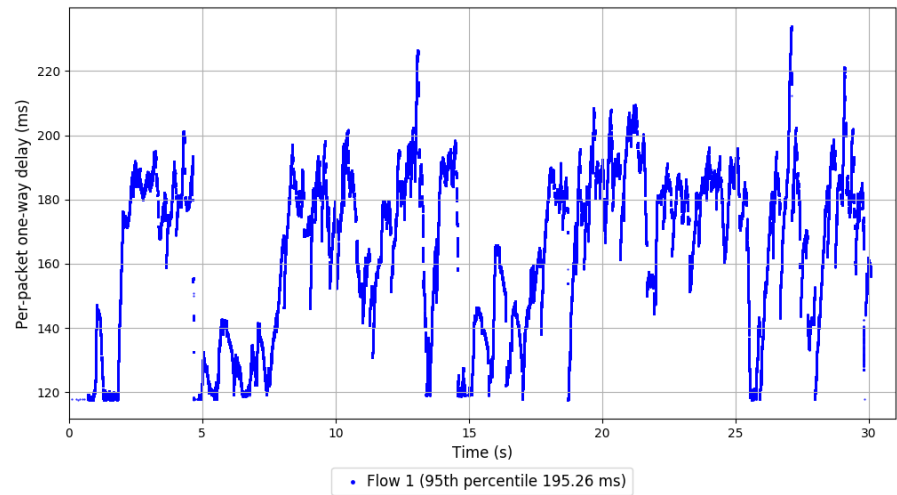
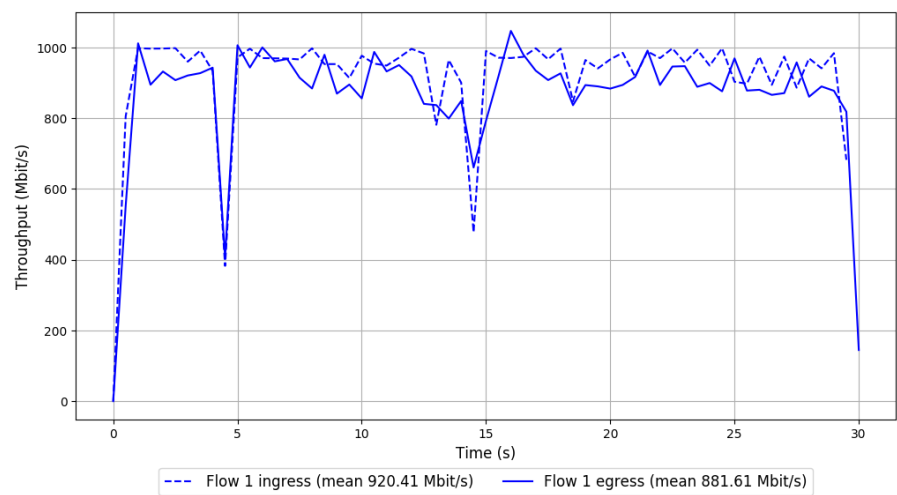
-- Flow 1:

Average throughput: 881.61 Mbit/s

95th percentile per-packet one-way delay: 195.265 ms

Loss rate: 4.17%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-16 02:16:06

End at: 2018-01-16 02:16:36

Below is generated by plot.py at 2018-01-16 04:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 790.18 Mbit/s

95th percentile per-packet one-way delay: 247.705 ms

Loss rate: 7.78%

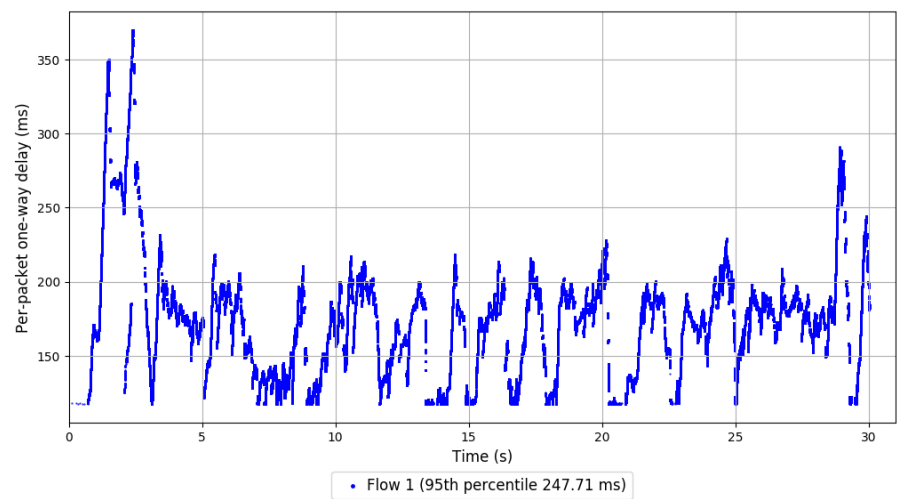
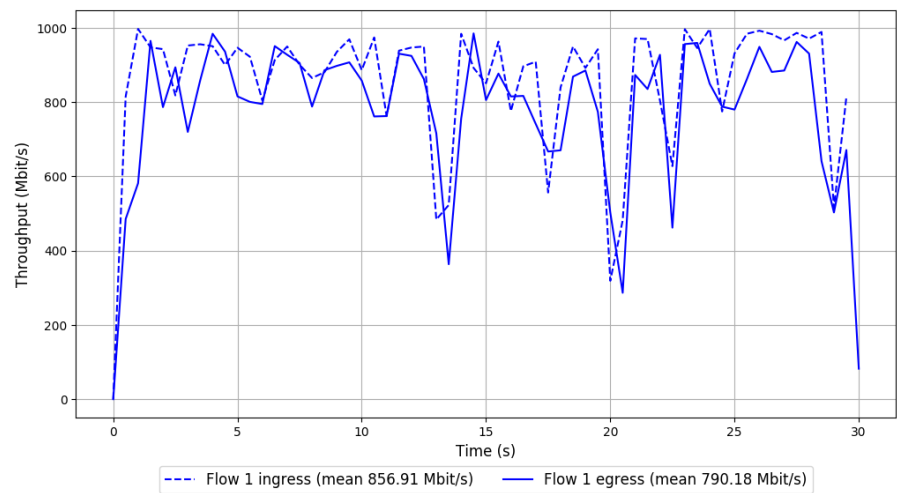
-- Flow 1:

Average throughput: 790.18 Mbit/s

95th percentile per-packet one-way delay: 247.705 ms

Loss rate: 7.78%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-16 02:28:16

End at: 2018-01-16 02:28:46

Below is generated by plot.py at 2018-01-16 04:21:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 725.04 Mbit/s

95th percentile per-packet one-way delay: 189.794 ms

Loss rate: 3.07%

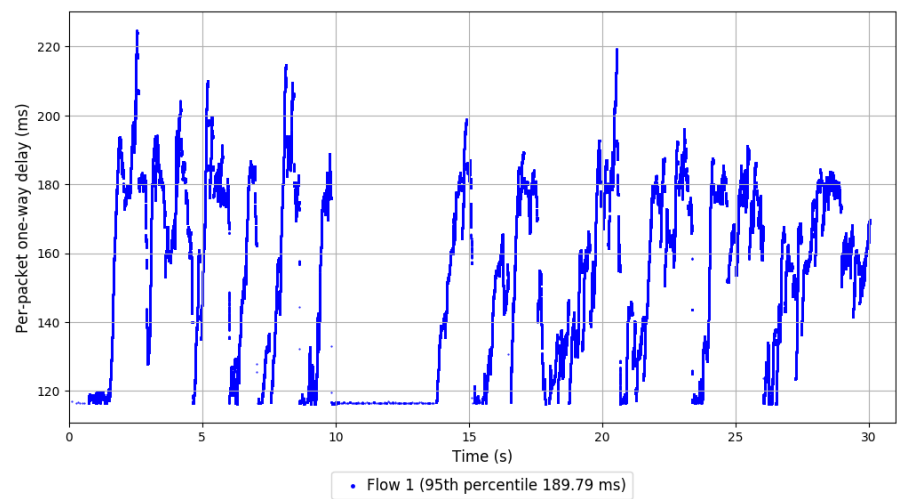
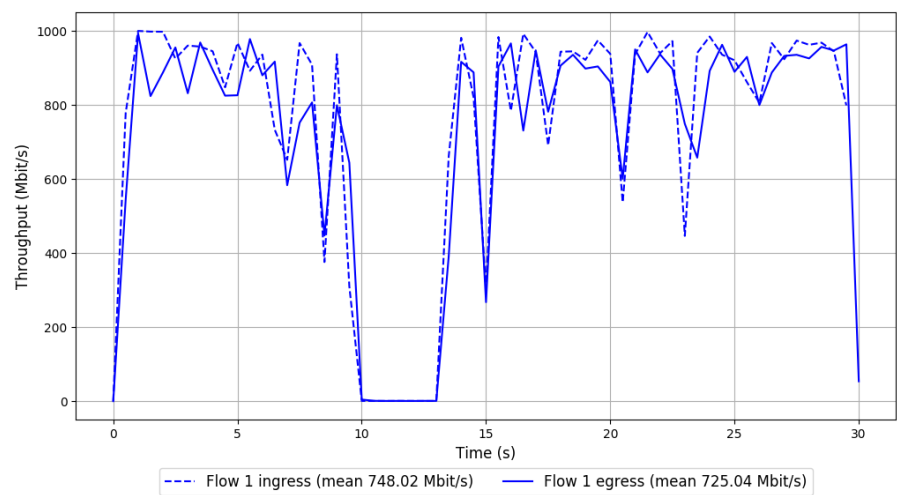
-- Flow 1:

Average throughput: 725.04 Mbit/s

95th percentile per-packet one-way delay: 189.794 ms

Loss rate: 3.07%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-16 02:40:31

End at: 2018-01-16 02:41:01

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 716.92 Mbit/s

95th percentile per-packet one-way delay: 171.344 ms

Loss rate: 0.06%

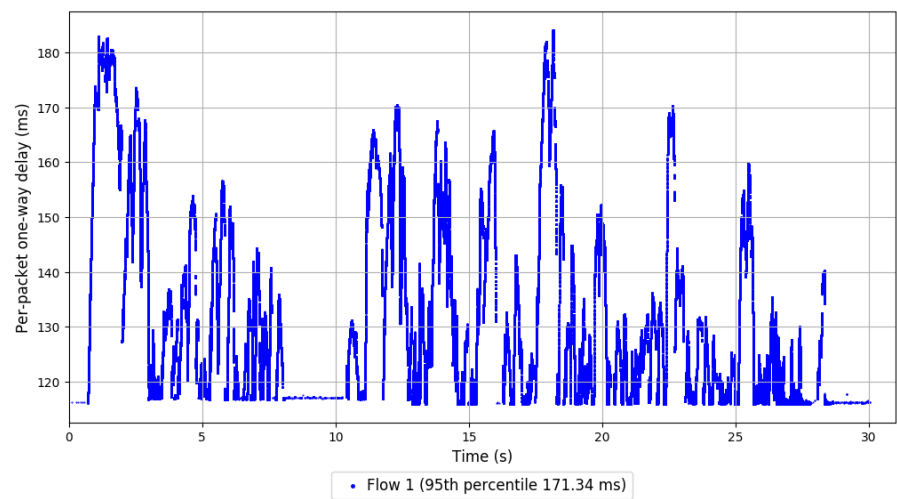
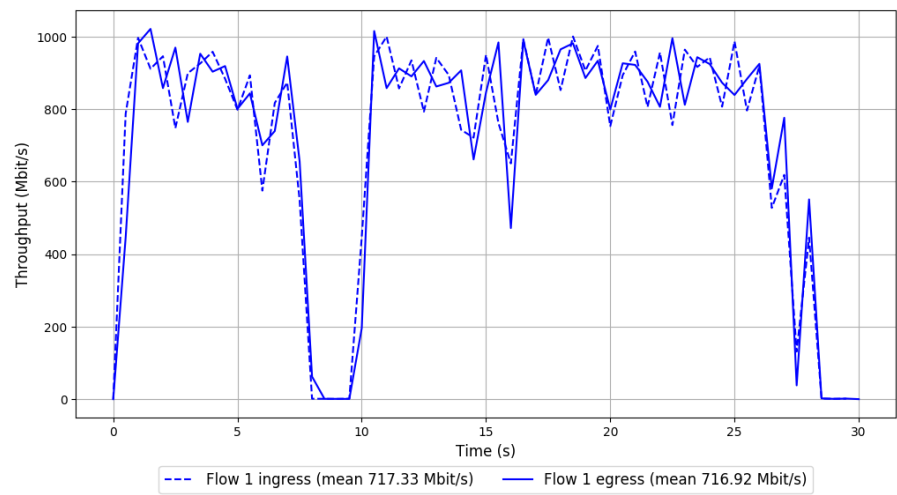
-- Flow 1:

Average throughput: 716.92 Mbit/s

95th percentile per-packet one-way delay: 171.344 ms

Loss rate: 0.06%

Run 10: Report of FillP — Data Link

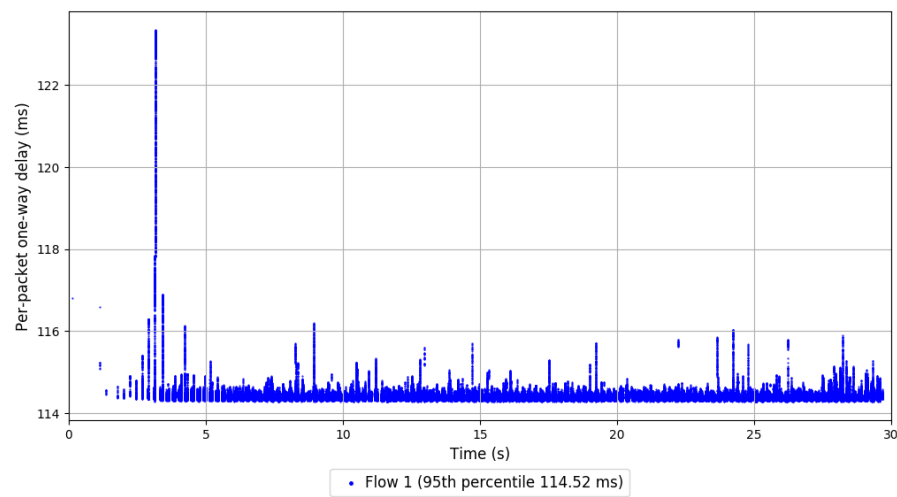
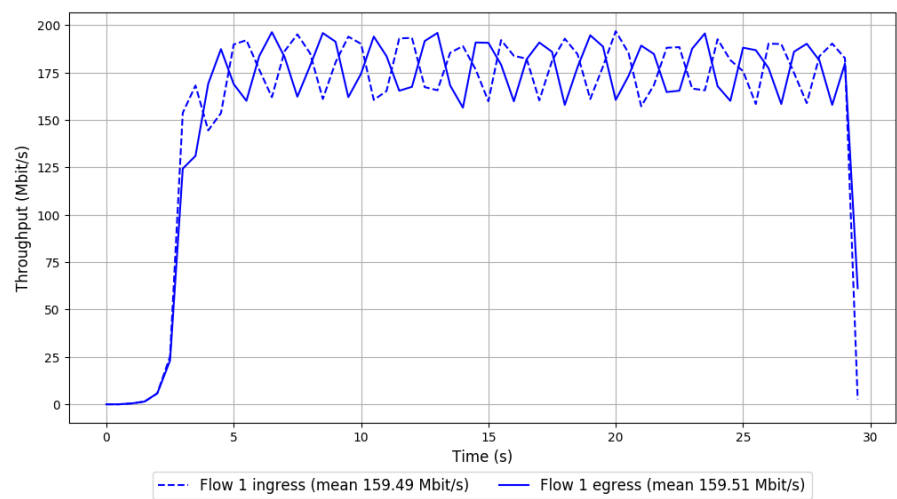


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 00:39:24
End at: 2018-01-16 00:39:54

# Below is generated by plot.py at 2018-01-16 04:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.51 Mbit/s
95th percentile per-packet one-way delay: 114.518 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.51 Mbit/s
95th percentile per-packet one-way delay: 114.518 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-16 00:51:44

End at: 2018-01-16 00:52:14

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.13 Mbit/s

95th percentile per-packet one-way delay: 116.786 ms

Loss rate: 0.00%

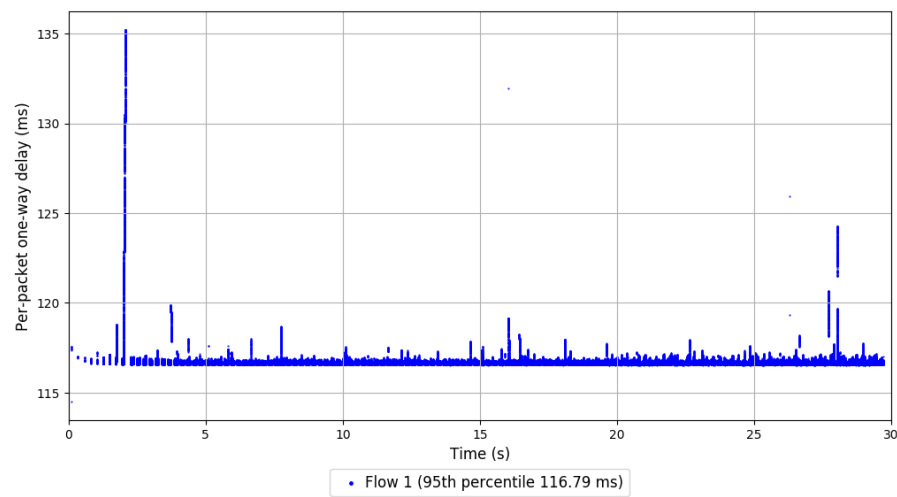
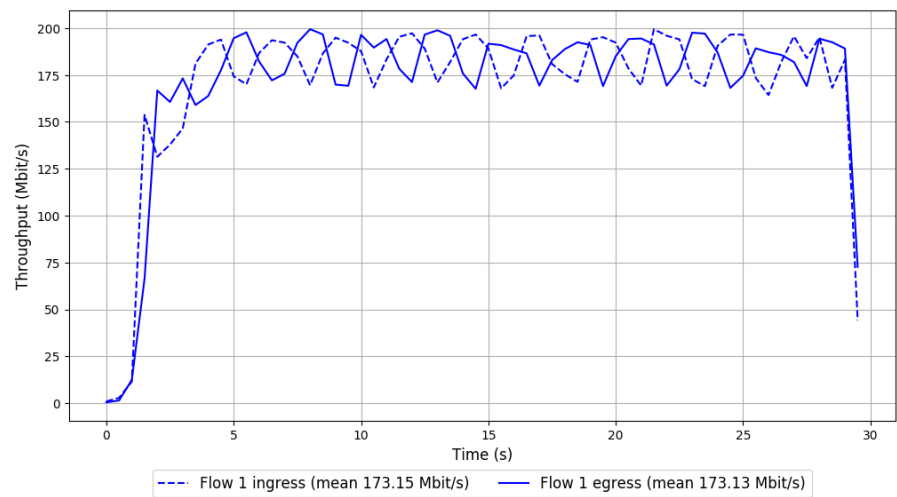
-- Flow 1:

Average throughput: 173.13 Mbit/s

95th percentile per-packet one-way delay: 116.786 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 01:04:07

End at: 2018-01-16 01:04:37

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.26 Mbit/s

95th percentile per-packet one-way delay: 117.291 ms

Loss rate: 0.00%

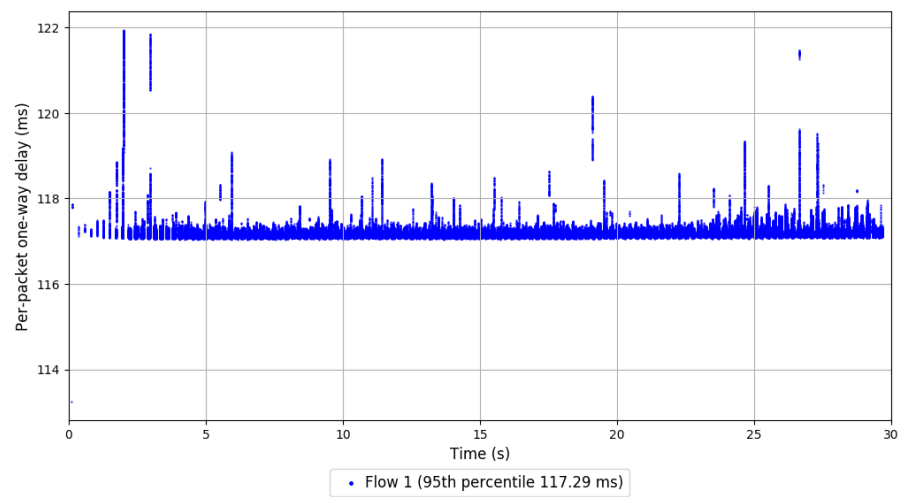
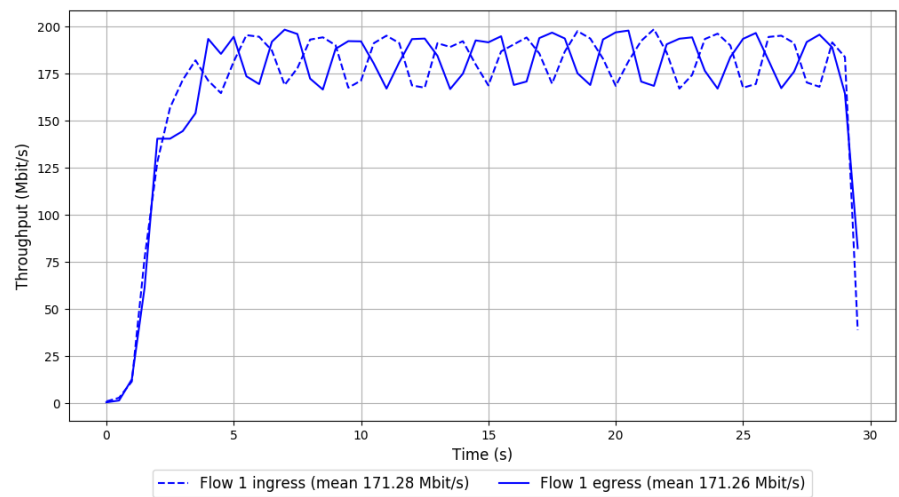
-- Flow 1:

Average throughput: 171.26 Mbit/s

95th percentile per-packet one-way delay: 117.291 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-16 01:16:24

End at: 2018-01-16 01:16:54

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.61 Mbit/s

95th percentile per-packet one-way delay: 118.835 ms

Loss rate: 0.00%

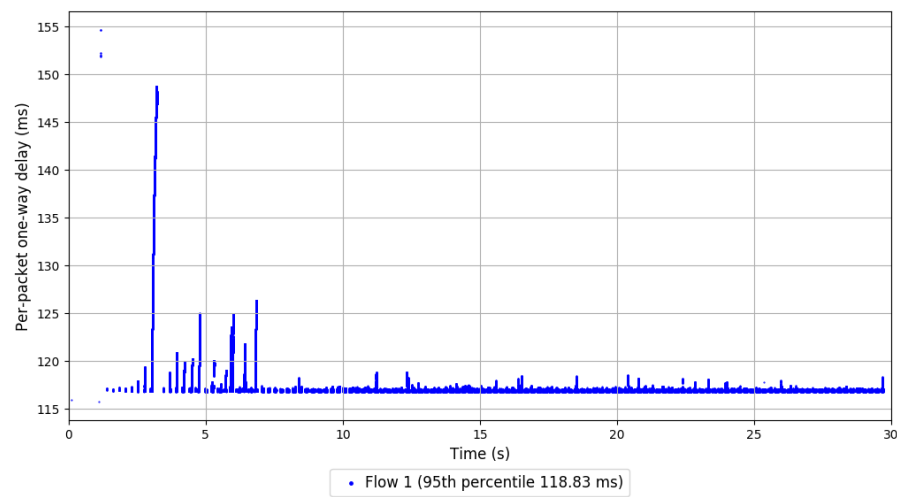
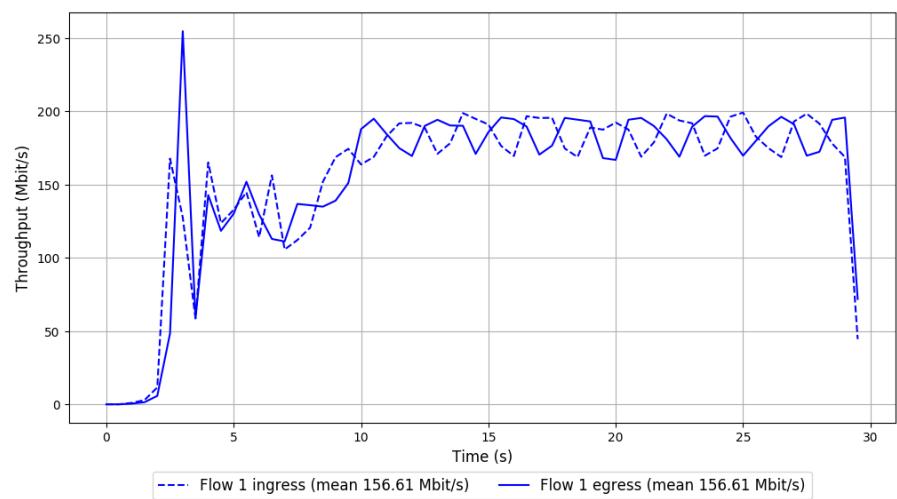
-- Flow 1:

Average throughput: 156.61 Mbit/s

95th percentile per-packet one-way delay: 118.835 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-16 01:28:32

End at: 2018-01-16 01:29:02

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.34 Mbit/s

95th percentile per-packet one-way delay: 116.731 ms

Loss rate: 0.00%

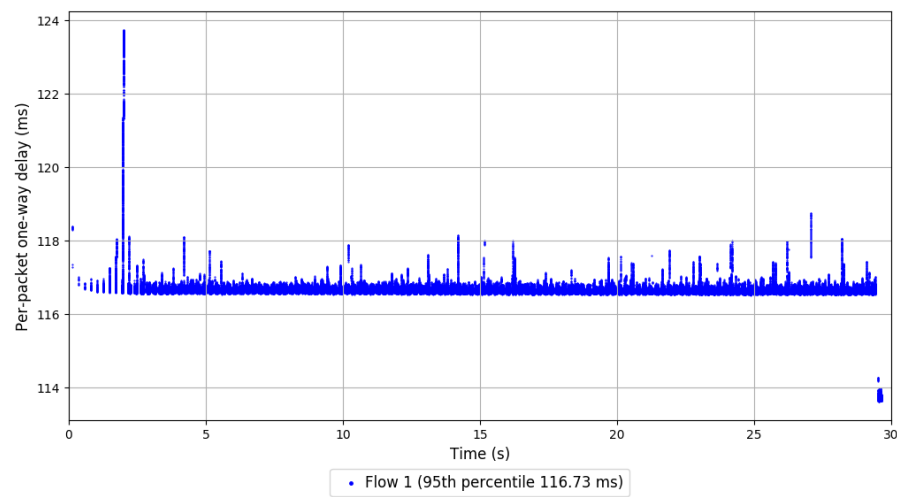
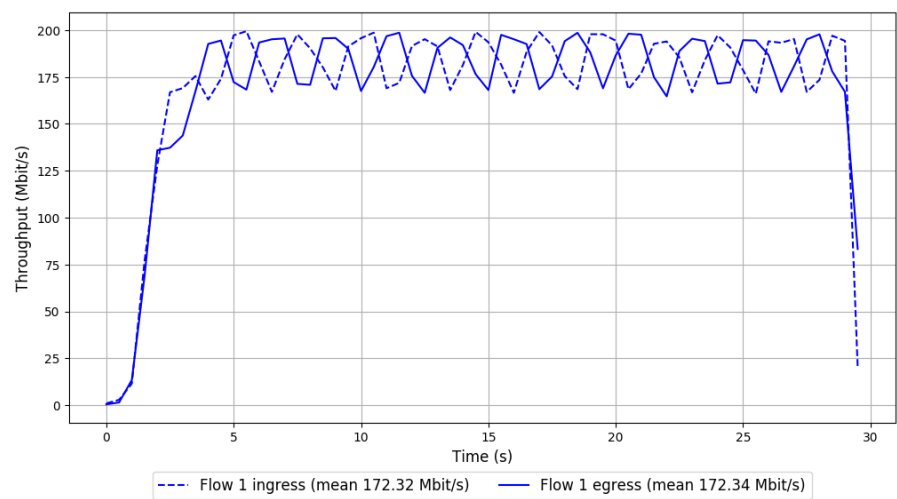
-- Flow 1:

Average throughput: 172.34 Mbit/s

95th percentile per-packet one-way delay: 116.731 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-16 01:41:07

End at: 2018-01-16 01:41:37

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.51 Mbit/s

95th percentile per-packet one-way delay: 114.401 ms

Loss rate: 0.00%

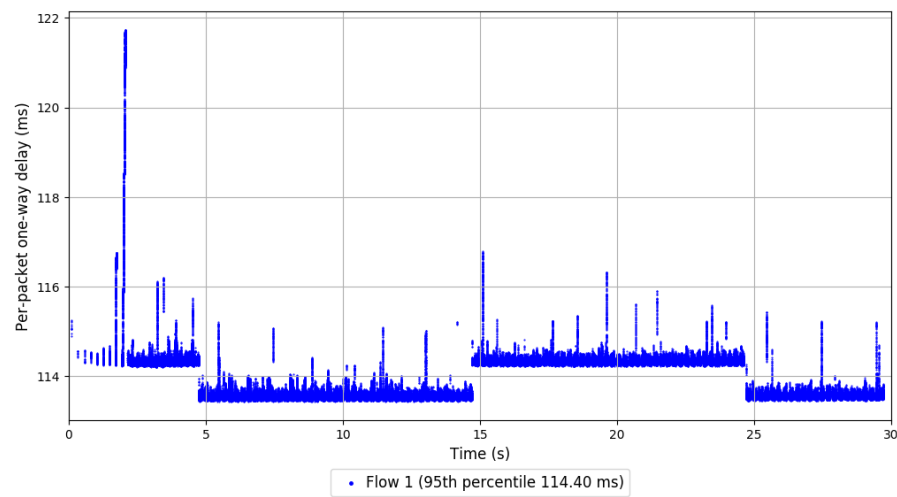
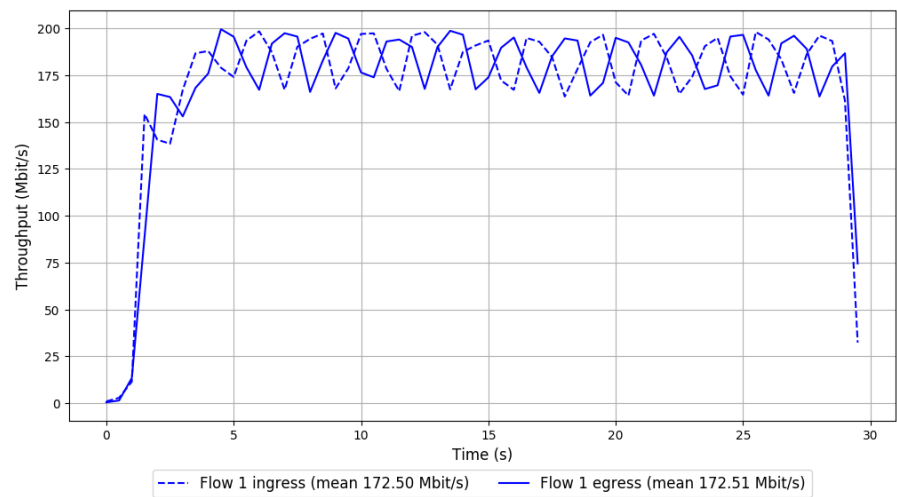
-- Flow 1:

Average throughput: 172.51 Mbit/s

95th percentile per-packet one-way delay: 114.401 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-16 01:53:22

End at: 2018-01-16 01:53:52

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.94 Mbit/s

95th percentile per-packet one-way delay: 117.676 ms

Loss rate: 0.00%

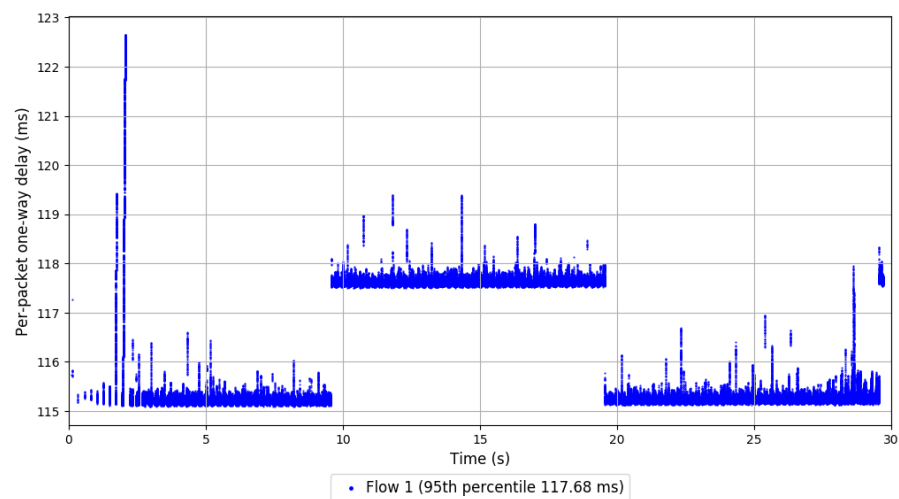
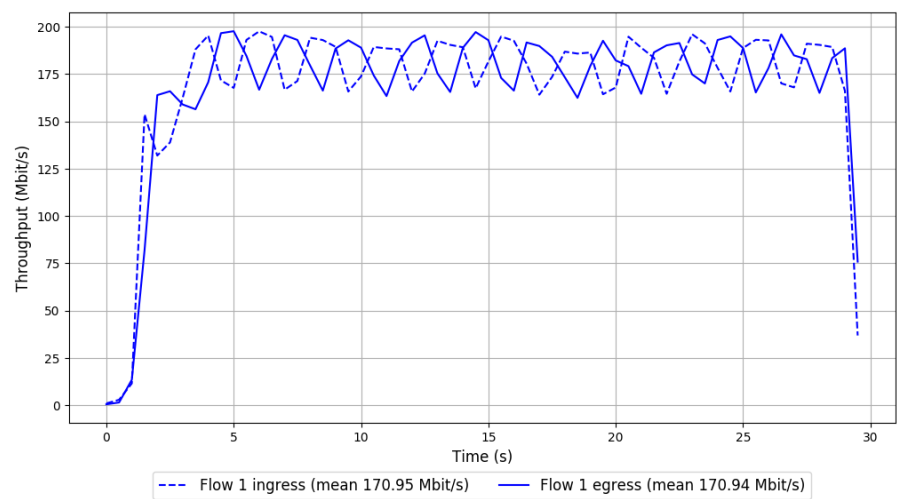
-- Flow 1:

Average throughput: 170.94 Mbit/s

95th percentile per-packet one-way delay: 117.676 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-16 02:05:46

End at: 2018-01-16 02:06:17

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.43 Mbit/s

95th percentile per-packet one-way delay: 120.208 ms

Loss rate: 0.03%

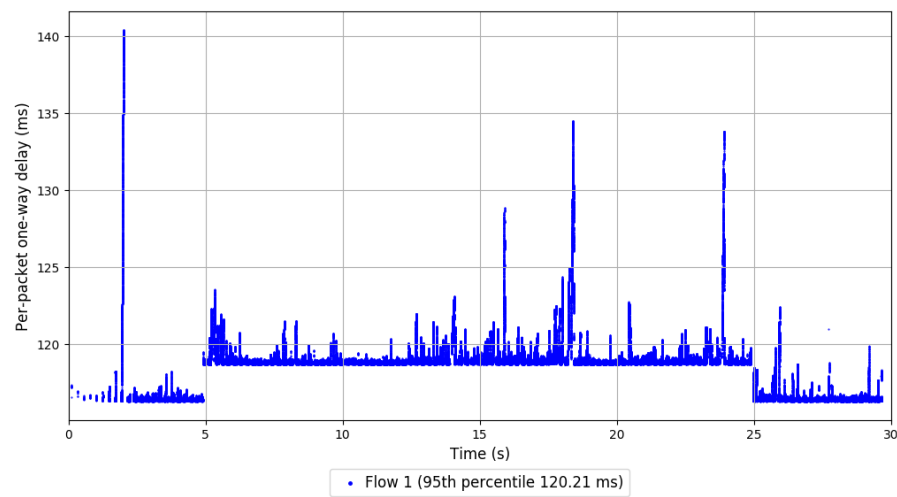
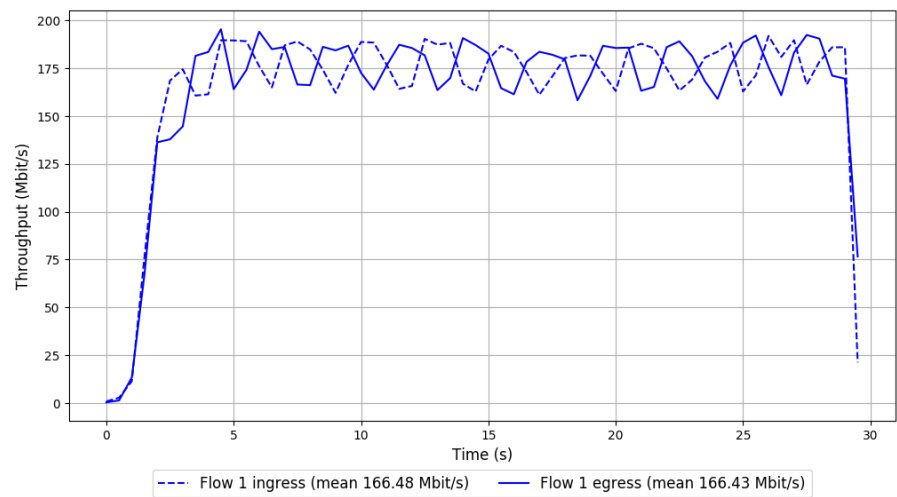
-- Flow 1:

Average throughput: 166.43 Mbit/s

95th percentile per-packet one-way delay: 120.208 ms

Loss rate: 0.03%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-16 02:18:05

End at: 2018-01-16 02:18:35

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.82 Mbit/s

95th percentile per-packet one-way delay: 119.016 ms

Loss rate: 0.00%

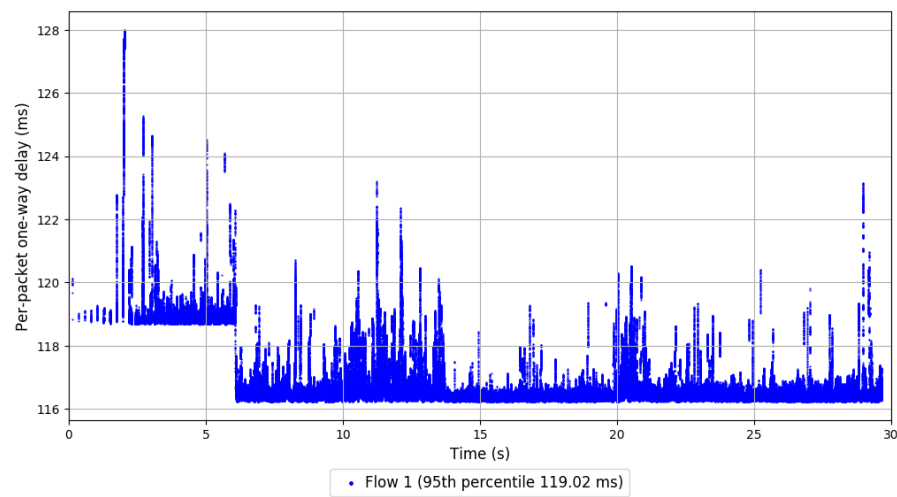
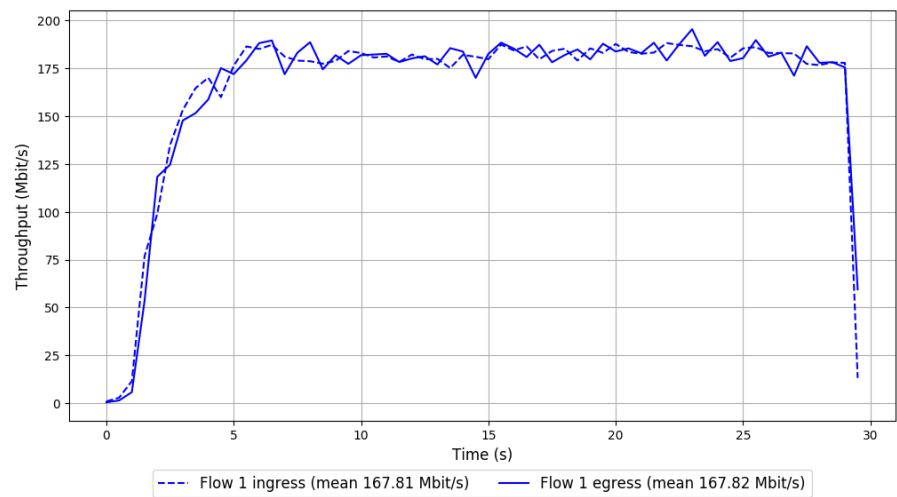
-- Flow 1:

Average throughput: 167.82 Mbit/s

95th percentile per-packet one-way delay: 119.016 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-16 02:30:12

End at: 2018-01-16 02:30:42

Below is generated by plot.py at 2018-01-16 04:21:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.52 Mbit/s

95th percentile per-packet one-way delay: 118.200 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.52 Mbit/s

95th percentile per-packet one-way delay: 118.200 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

