

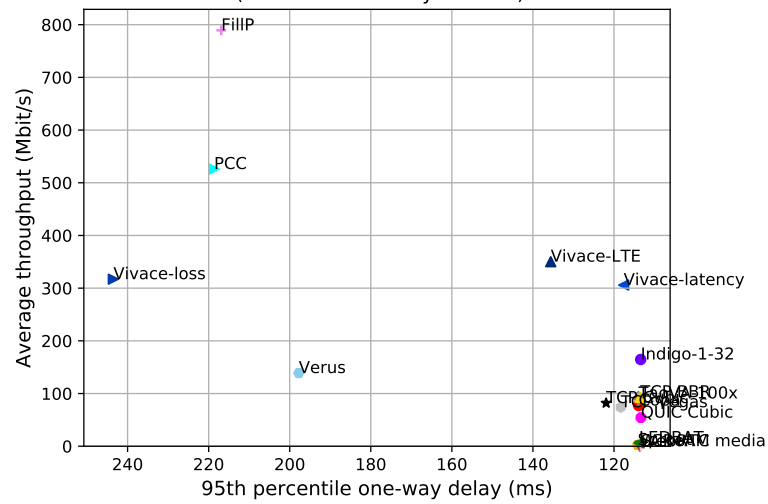
Pantheon Report

Generated at 2018-03-27 02:14:36 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE London Ethernet (*local*).
Repeated the test of 17 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**).

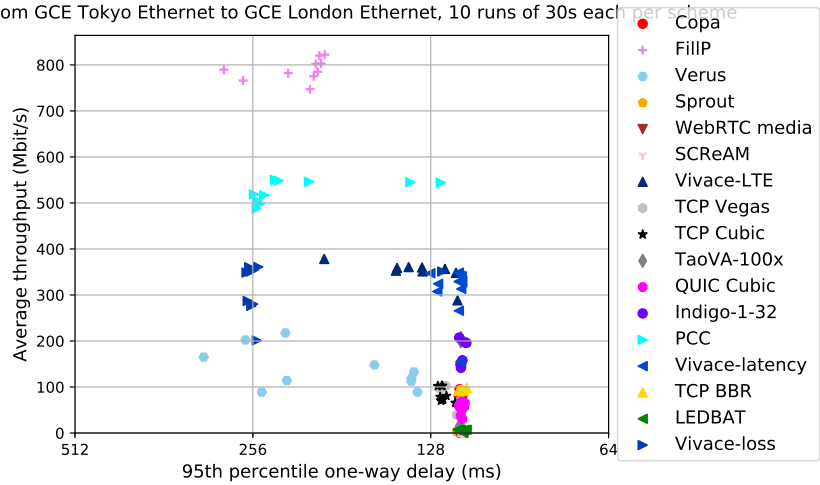
Git summary:

```
branch: master @ 503f51fe03f703a4c0a826a0792a4fead3e7d1b0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
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 @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



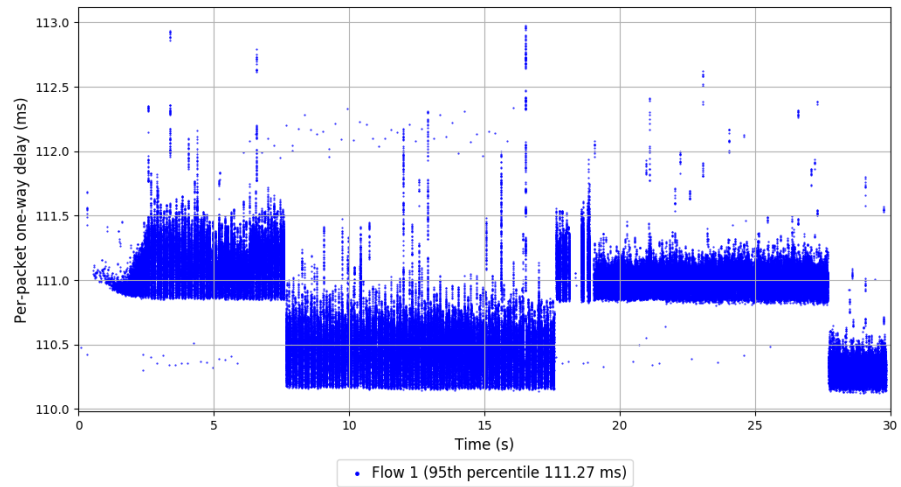
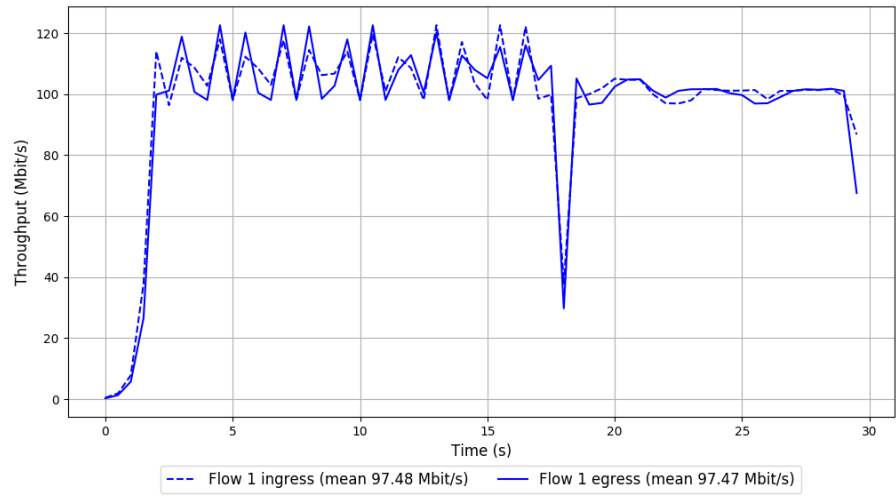
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	93.04	113.52	0.80
TCP Cubic	10	81.98	121.93	0.78
LEDBAT	10	6.20	113.85	1.69
PCC	10	526.08	218.67	2.63
QUIC Cubic	9	54.27	113.36	0.90
SCReAM	10	0.22	113.36	0.74
WebRTC media	10	0.06	113.61	0.00
Sprout	10	2.39	114.16	0.66
TaoVA-100x	10	90.66	113.98	0.65
TCP Vegas	10	74.02	118.33	0.74
Verus	10	138.88	197.77	2.89
Copa	10	77.29	113.93	0.70
FillP	10	789.29	216.90	9.88
Indigo-1-32	10	164.63	113.41	0.80
Vivace-latency	10	305.81	117.62	0.90
Vivace-loss	10	317.05	243.50	3.44
Vivace-LTE	10	350.27	135.61	0.99

```
Run 1: Statistics of TCP BBR

Start at: 2018-03-26 19:47:40
End at: 2018-03-26 19:48:10

# Below is generated by plot.py at 2018-03-27 01:04:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 111.267 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 111.267 ms
Loss rate: 0.74%
```

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-26 20:03:11

End at: 2018-03-26 20:03:41

Below is generated by plot.py at 2018-03-27 01:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 113.254 ms

Loss rate: 0.76%

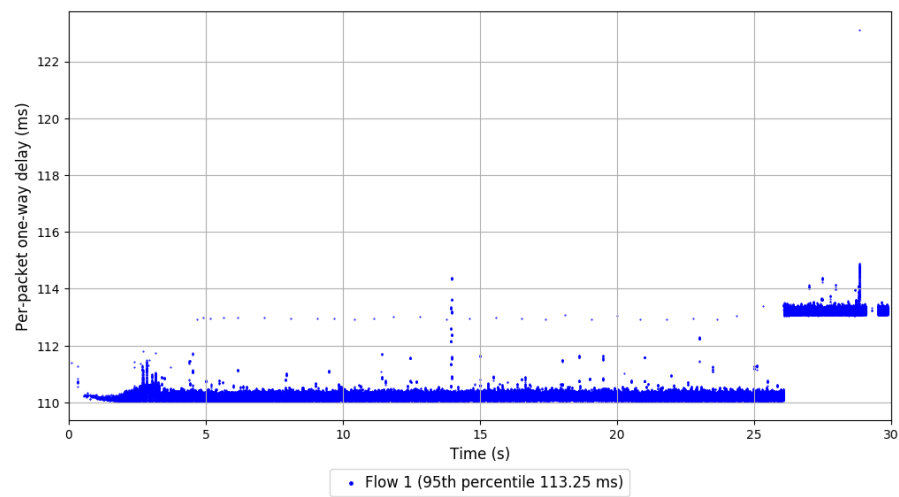
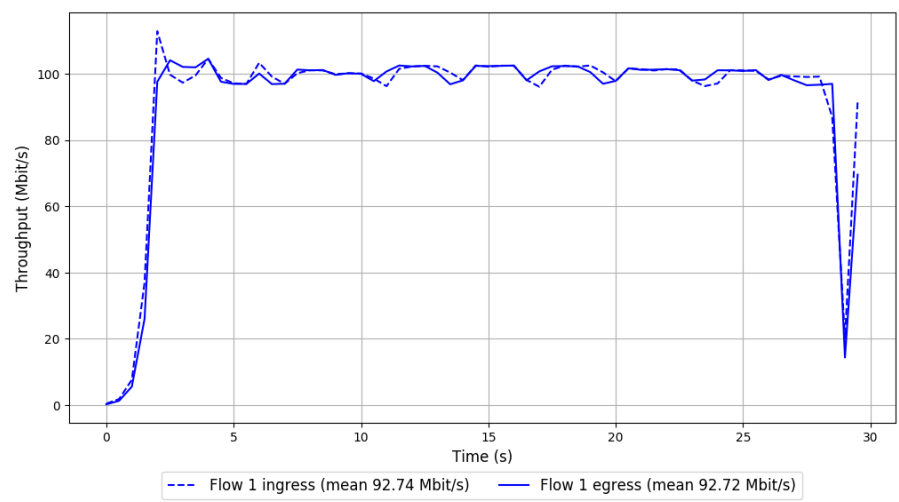
-- Flow 1:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 113.254 ms

Loss rate: 0.76%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-26 20:18:32

End at: 2018-03-26 20:19:02

Below is generated by plot.py at 2018-03-27 01:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.07 Mbit/s

95th percentile per-packet one-way delay: 114.049 ms

Loss rate: 0.84%

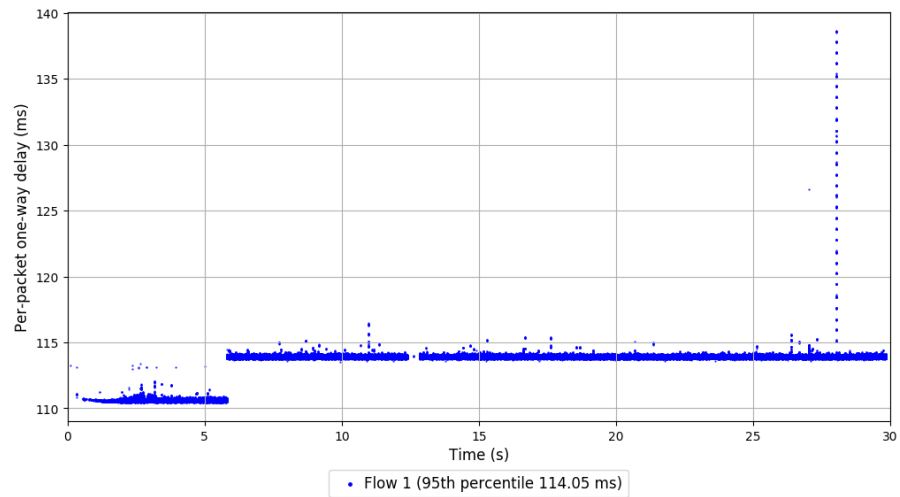
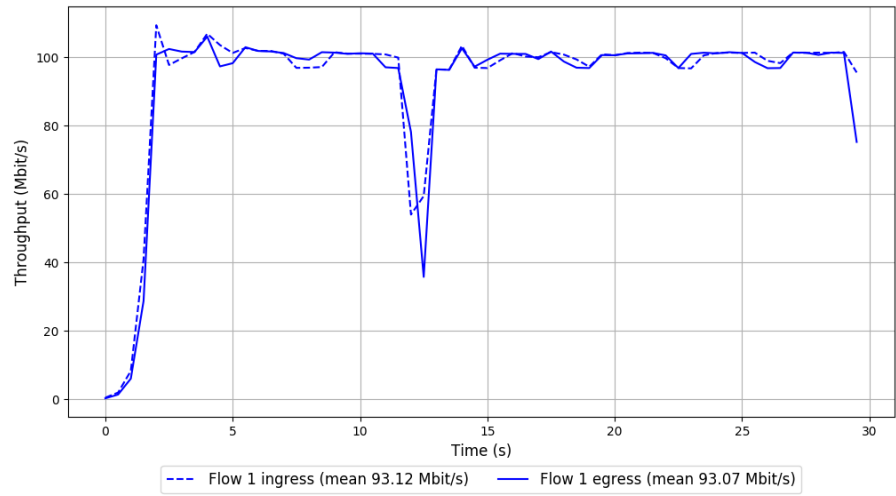
-- Flow 1:

Average throughput: 93.07 Mbit/s

95th percentile per-packet one-way delay: 114.049 ms

Loss rate: 0.84%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-26 20:33:54

End at: 2018-03-26 20:34:24

Below is generated by plot.py at 2018-03-27 01:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.80 Mbit/s

95th percentile per-packet one-way delay: 114.468 ms

Loss rate: 0.77%

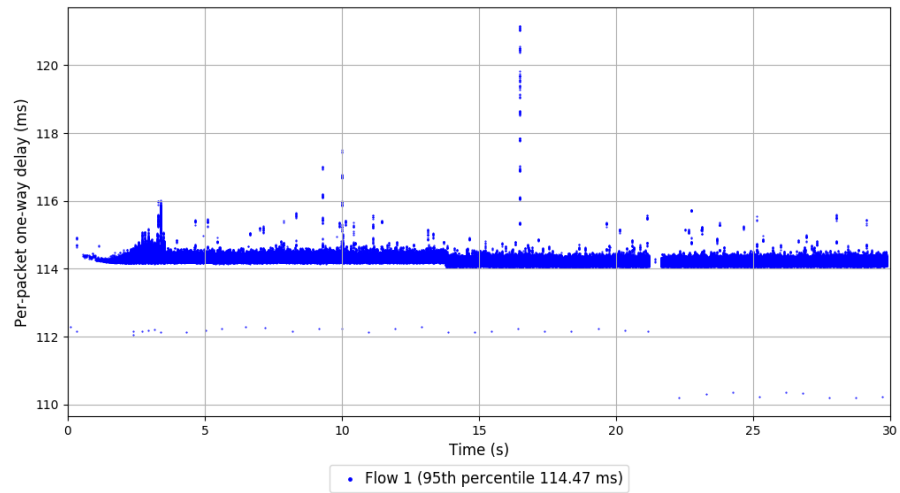
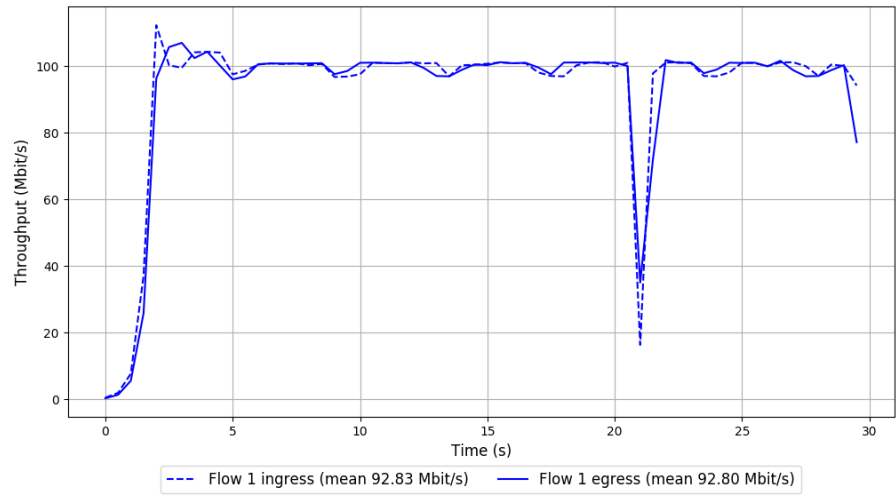
-- Flow 1:

Average throughput: 92.80 Mbit/s

95th percentile per-packet one-way delay: 114.468 ms

Loss rate: 0.77%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-26 20:49:16

End at: 2018-03-26 20:49:46

Below is generated by plot.py at 2018-03-27 01:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 114.904 ms

Loss rate: 0.79%

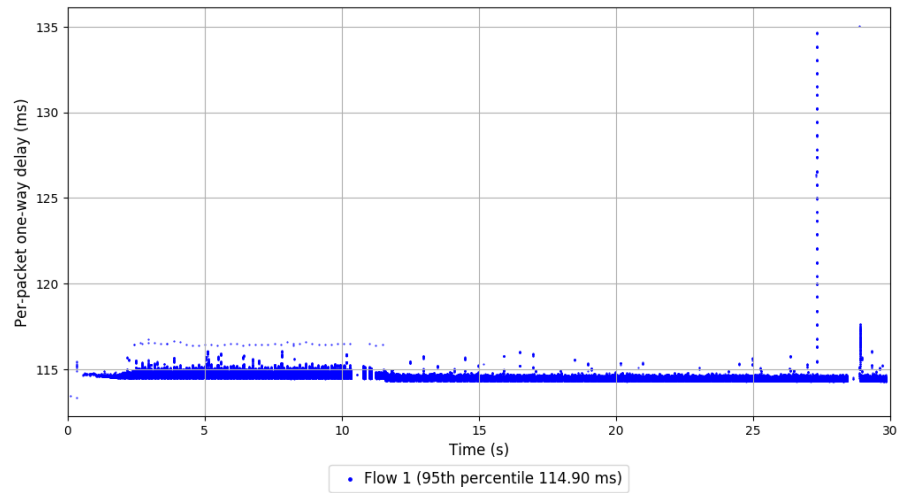
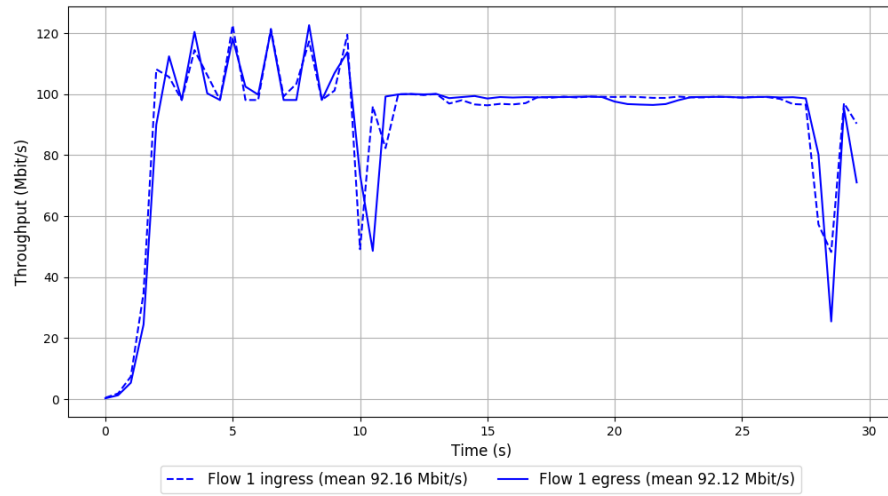
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 114.904 ms

Loss rate: 0.79%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-26 21:04:38

End at: 2018-03-26 21:05:08

Below is generated by plot.py at 2018-03-27 01:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 113.861 ms

Loss rate: 0.80%

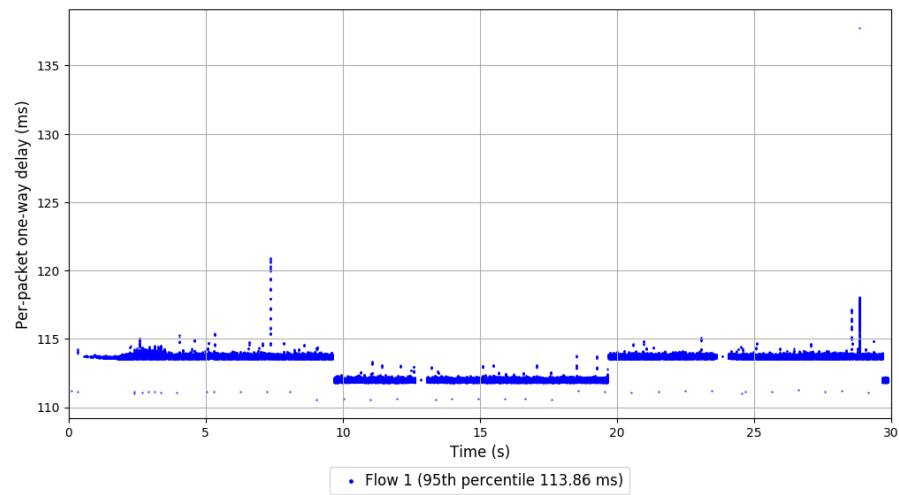
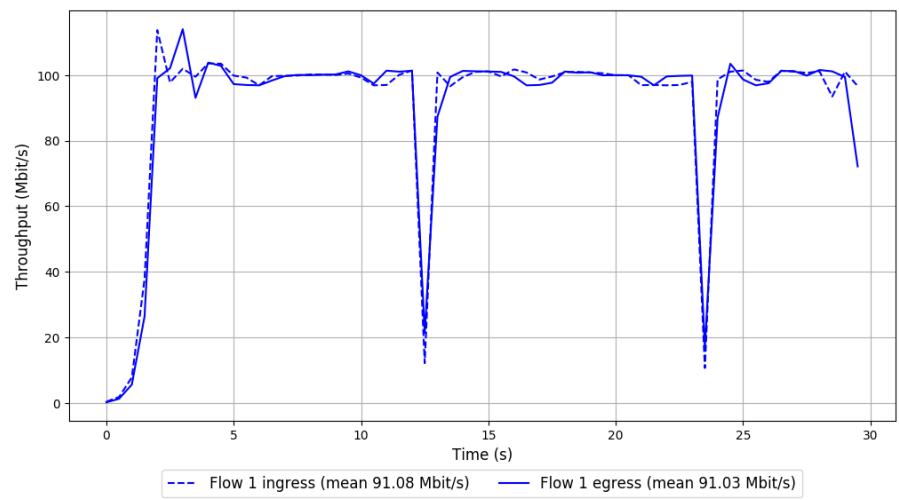
-- Flow 1:

Average throughput: 91.03 Mbit/s

95th percentile per-packet one-way delay: 113.861 ms

Loss rate: 0.80%

Run 6: Report of TCP BBR — Data Link

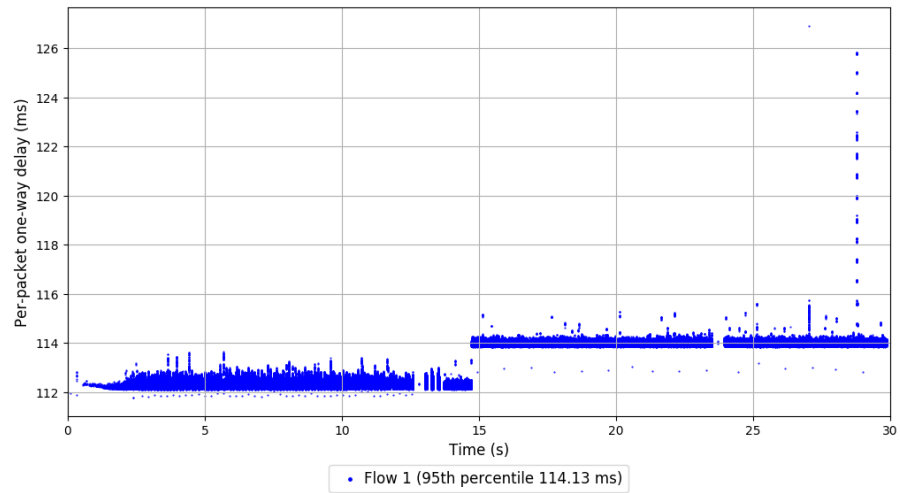
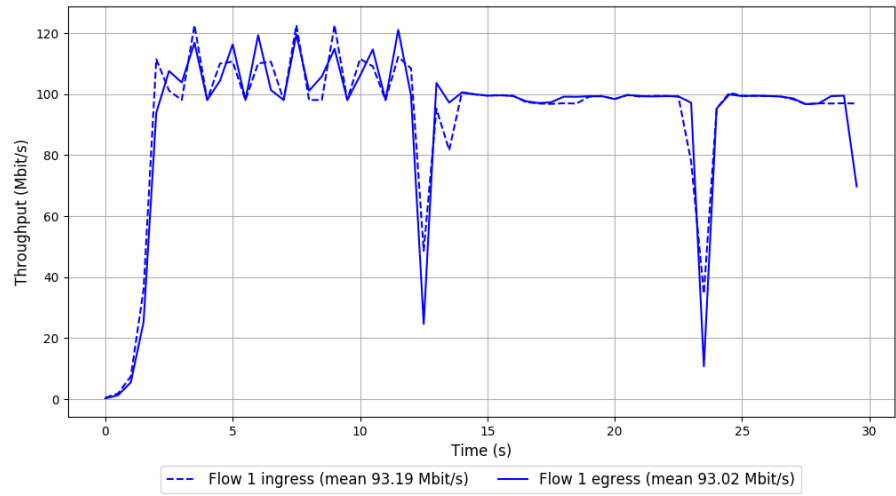


```
Run 7: Statistics of TCP BBR

Start at: 2018-03-26 21:20:03
End at: 2018-03-26 21:20:33

# Below is generated by plot.py at 2018-03-27 01:04:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.02 Mbit/s
95th percentile per-packet one-way delay: 114.132 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 93.02 Mbit/s
95th percentile per-packet one-way delay: 114.132 ms
Loss rate: 0.83%
```

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-26 21:35:22

End at: 2018-03-26 21:35:52

Below is generated by plot.py at 2018-03-27 01:04:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 113.366 ms

Loss rate: 0.80%

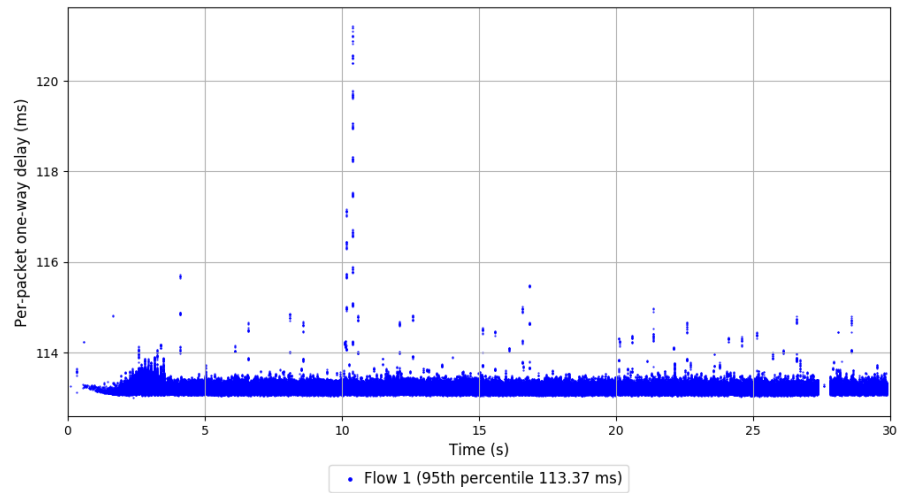
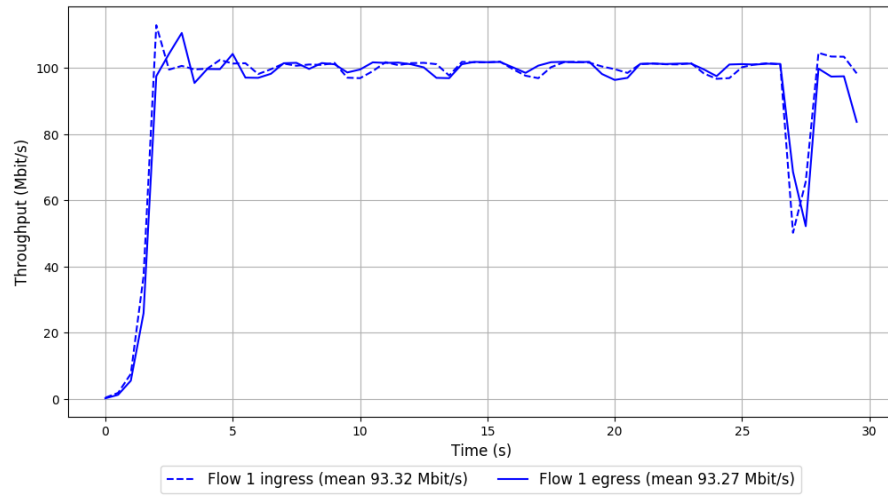
-- Flow 1:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 113.366 ms

Loss rate: 0.80%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-26 21:50:47

End at: 2018-03-26 21:51:17

Below is generated by plot.py at 2018-03-27 01:05:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 113.364 ms

Loss rate: 0.87%

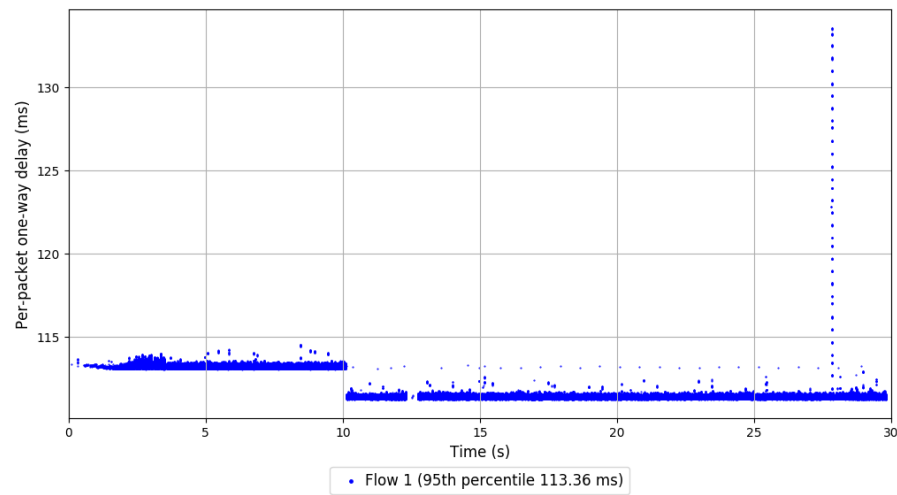
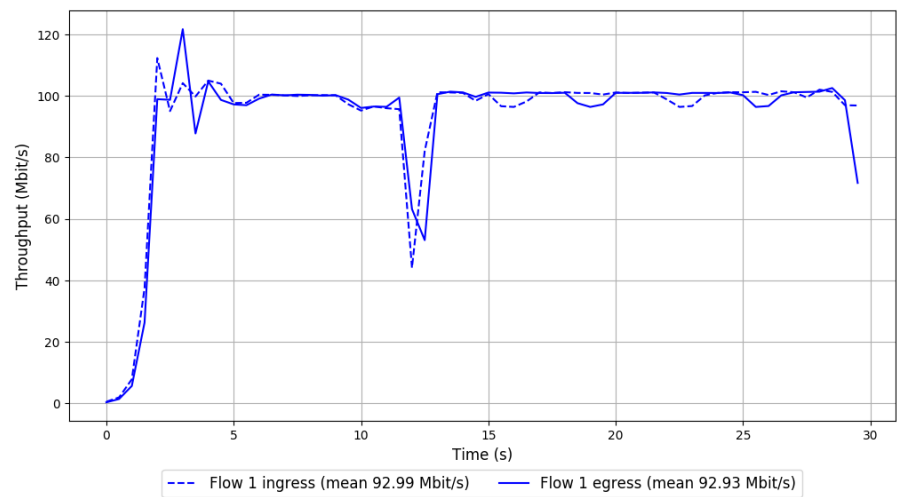
-- Flow 1:

Average throughput: 92.93 Mbit/s

95th percentile per-packet one-way delay: 113.364 ms

Loss rate: 0.87%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-26 22:06:26

End at: 2018-03-26 22:06:56

Below is generated by plot.py at 2018-03-27 01:05:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.00 Mbit/s

95th percentile per-packet one-way delay: 112.546 ms

Loss rate: 0.80%

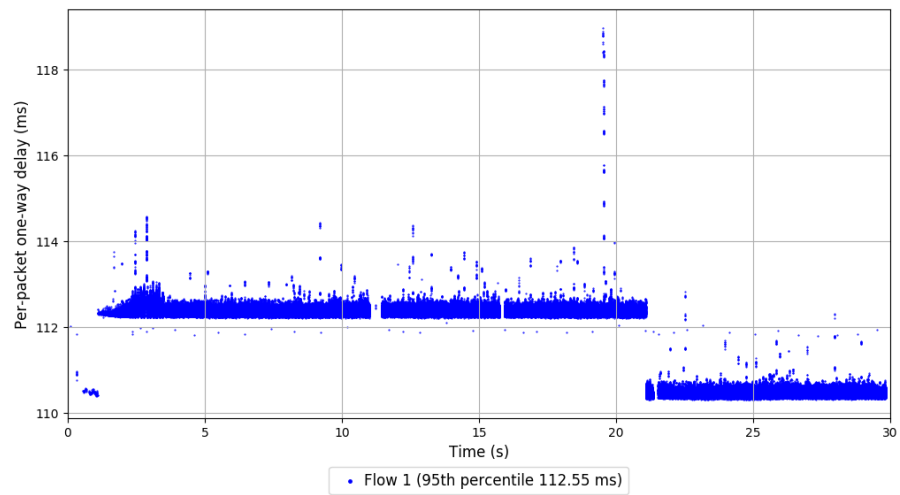
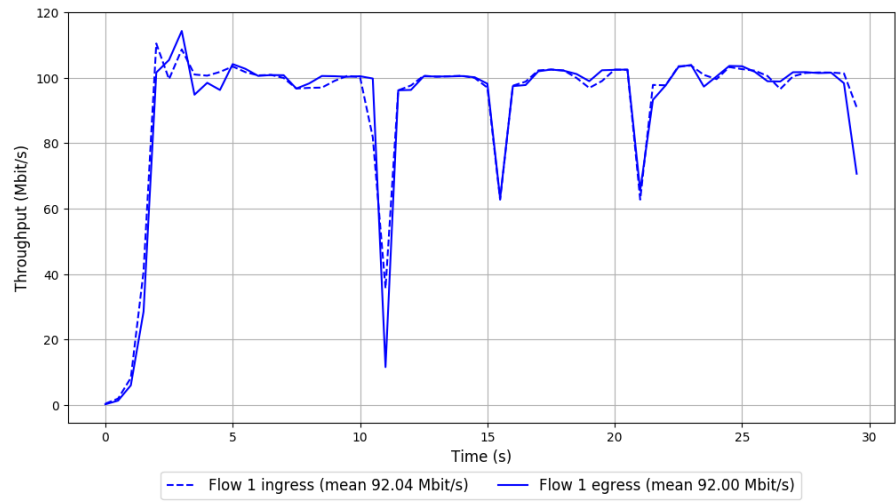
-- Flow 1:

Average throughput: 92.00 Mbit/s

95th percentile per-packet one-way delay: 112.546 ms

Loss rate: 0.80%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-26 19:52:57

End at: 2018-03-26 19:53:27

Below is generated by plot.py at 2018-03-27 01:05:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 123.370 ms

Loss rate: 1.00%

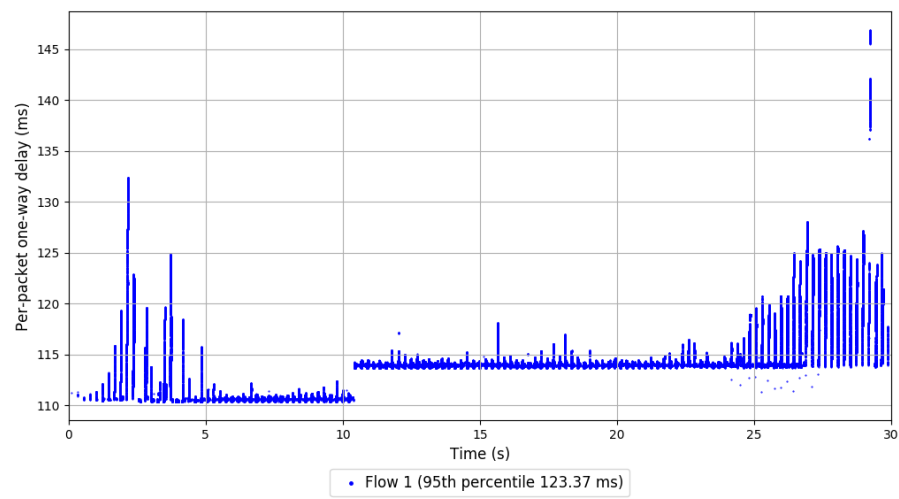
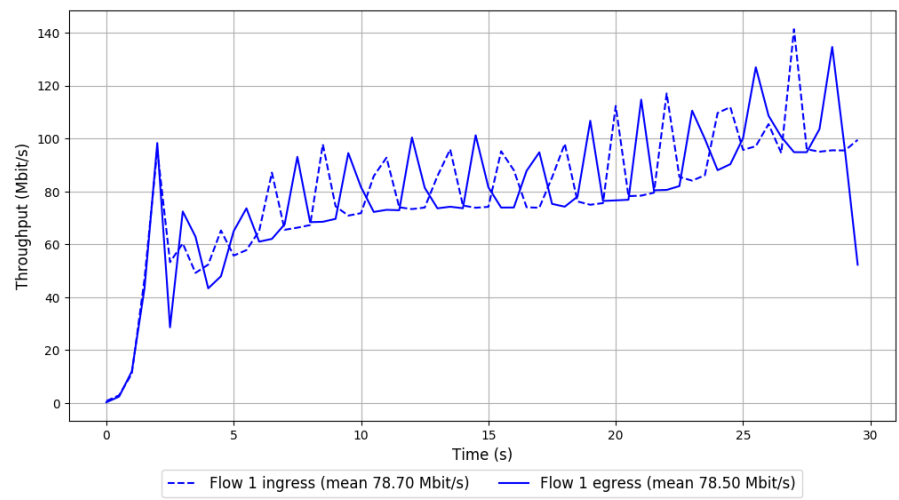
-- Flow 1:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 123.370 ms

Loss rate: 1.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-26 20:08:34

End at: 2018-03-26 20:09:04

Below is generated by plot.py at 2018-03-27 01:05:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.21 Mbit/s

95th percentile per-packet one-way delay: 122.632 ms

Loss rate: 0.80%

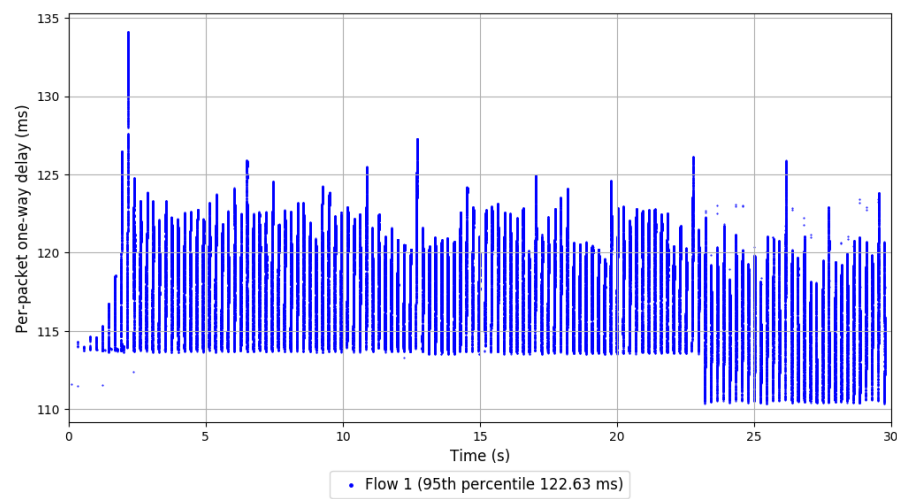
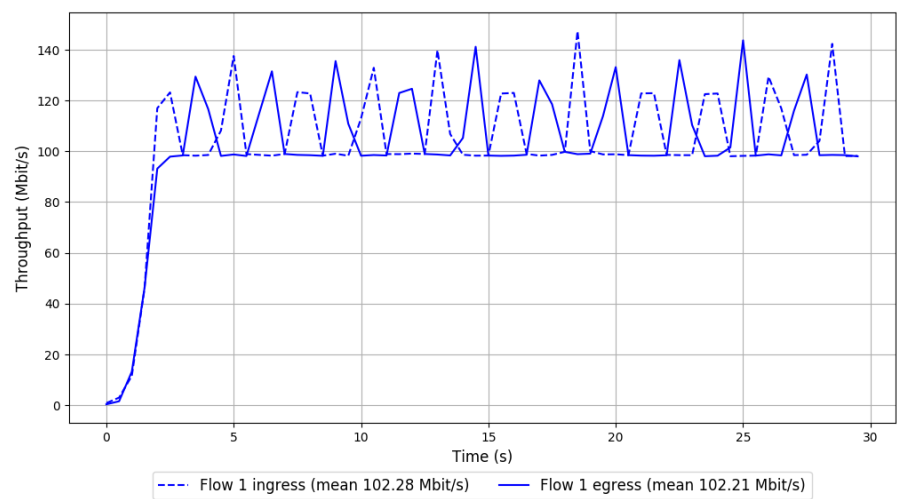
-- Flow 1:

Average throughput: 102.21 Mbit/s

95th percentile per-packet one-way delay: 122.632 ms

Loss rate: 0.80%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-26 20:23:52

End at: 2018-03-26 20:24:22

Below is generated by plot.py at 2018-03-27 01:05:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.68 Mbit/s

95th percentile per-packet one-way delay: 120.414 ms

Loss rate: 0.98%

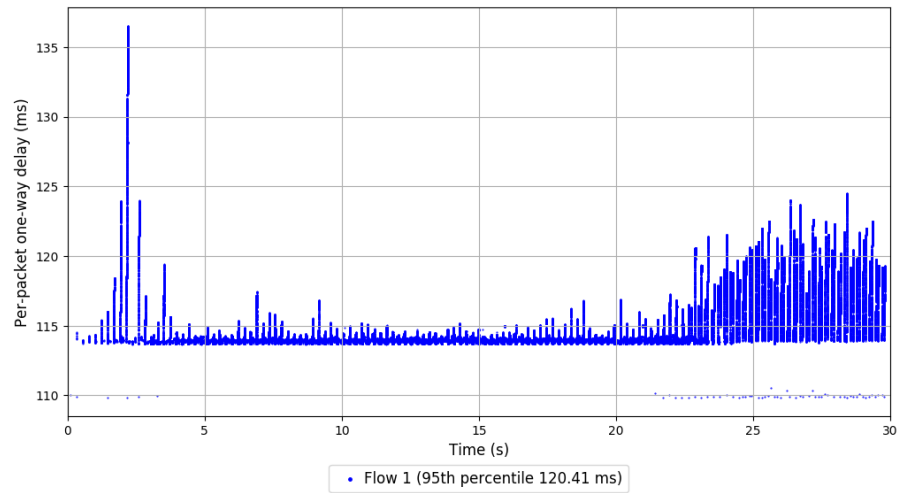
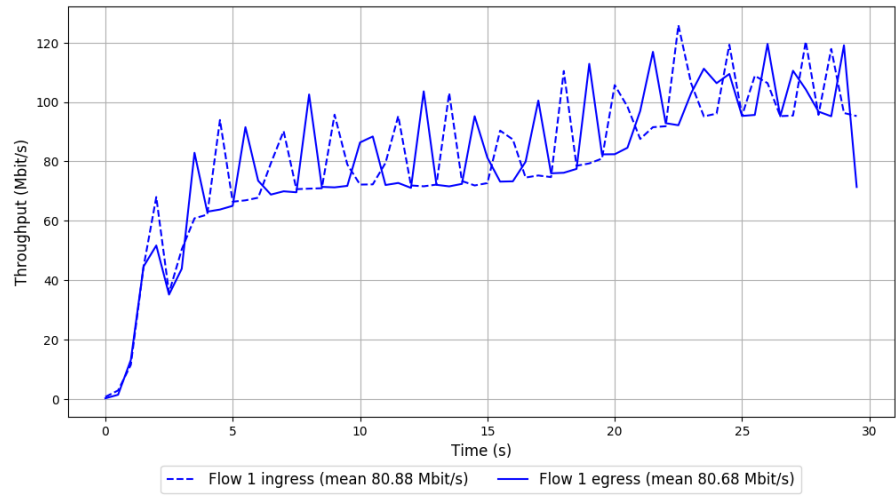
-- Flow 1:

Average throughput: 80.68 Mbit/s

95th percentile per-packet one-way delay: 120.414 ms

Loss rate: 0.98%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-26 20:39:22

End at: 2018-03-26 20:39:52

Below is generated by plot.py at 2018-03-27 01:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.08 Mbit/s

95th percentile per-packet one-way delay: 124.528 ms

Loss rate: 0.86%

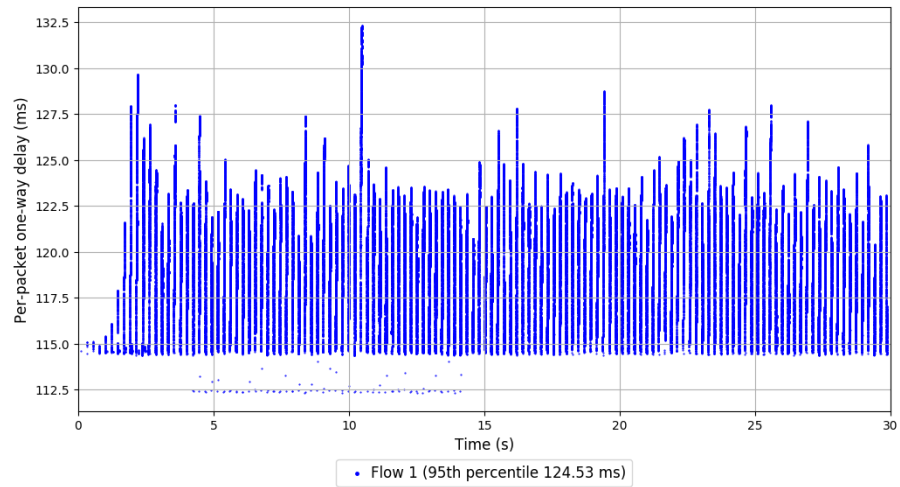
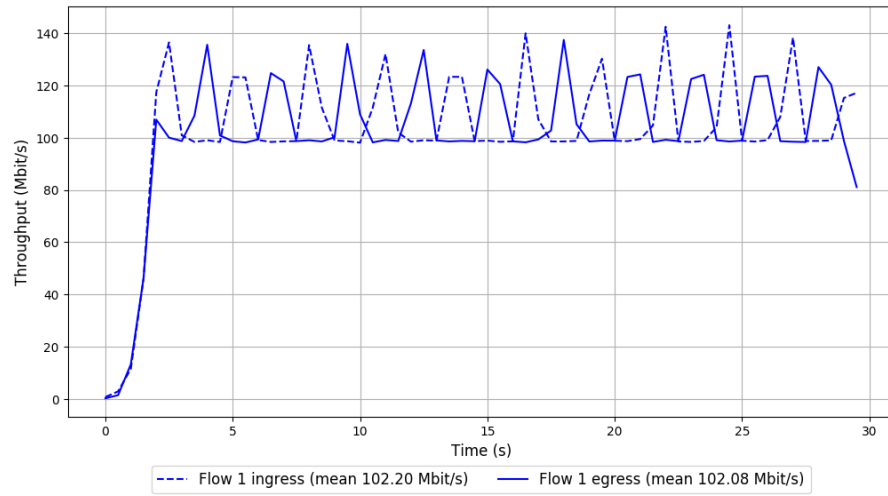
-- Flow 1:

Average throughput: 102.08 Mbit/s

95th percentile per-packet one-way delay: 124.528 ms

Loss rate: 0.86%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-26 20:54:36

End at: 2018-03-26 20:55:06

Below is generated by plot.py at 2018-03-27 01:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.14 Mbit/s

95th percentile per-packet one-way delay: 122.017 ms

Loss rate: 0.35%

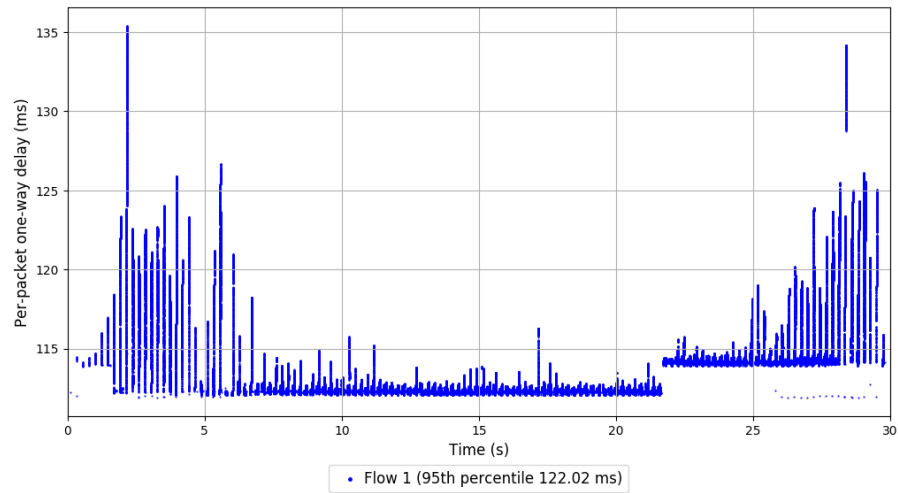
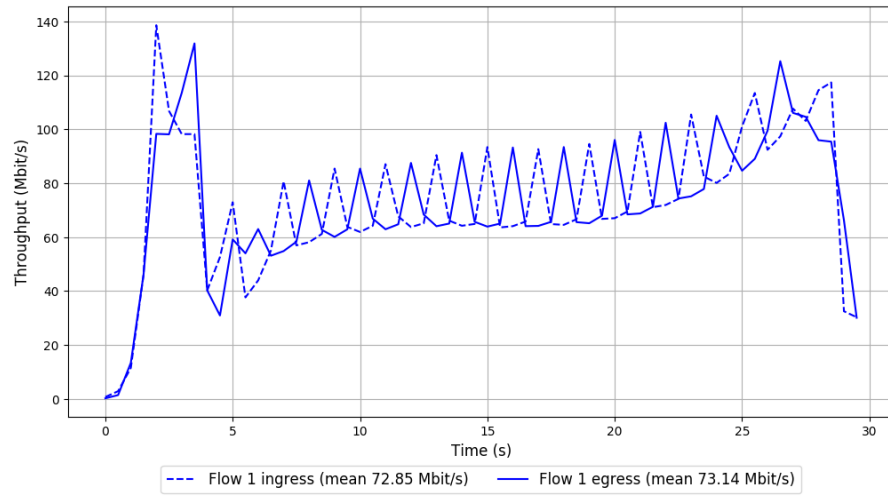
-- Flow 1:

Average throughput: 73.14 Mbit/s

95th percentile per-packet one-way delay: 122.017 ms

Loss rate: 0.35%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-26 21:09:59

End at: 2018-03-26 21:10:29

Below is generated by plot.py at 2018-03-27 01:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.90 Mbit/s

95th percentile per-packet one-way delay: 122.689 ms

Loss rate: 1.10%

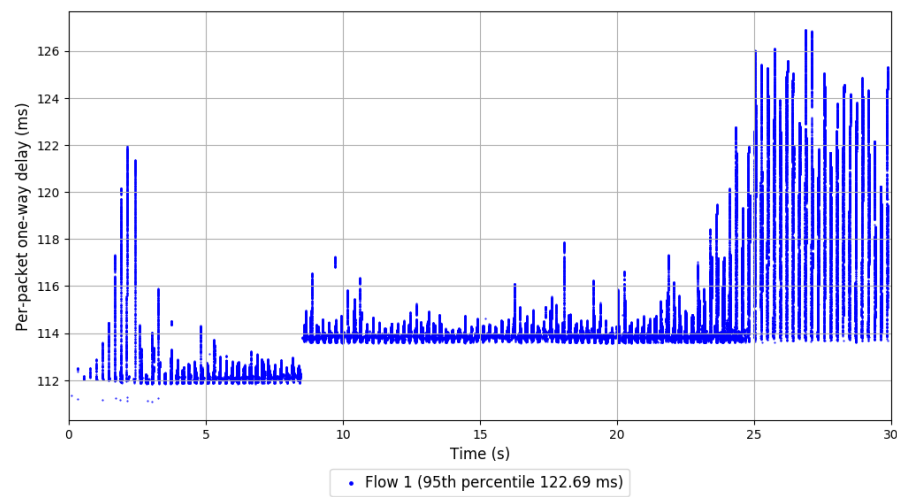
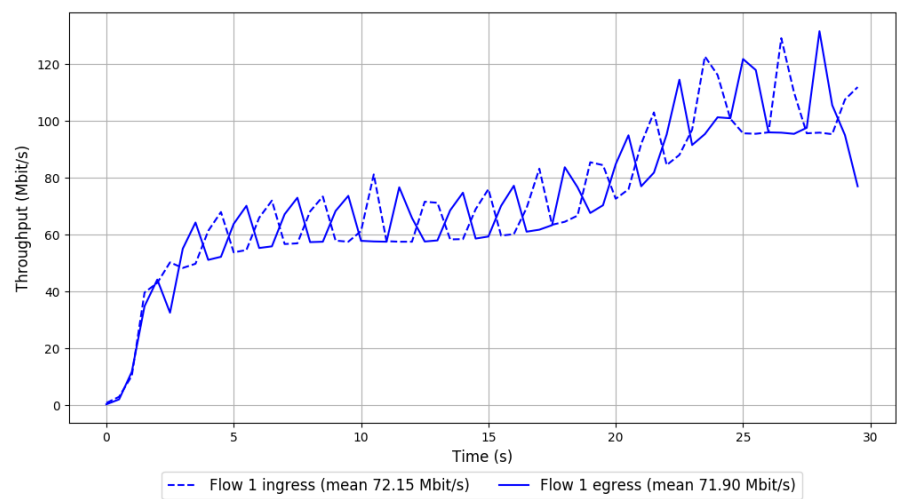
-- Flow 1:

Average throughput: 71.90 Mbit/s

95th percentile per-packet one-way delay: 122.689 ms

Loss rate: 1.10%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-26 21:25:21

End at: 2018-03-26 21:25:51

Below is generated by plot.py at 2018-03-27 01:06:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.30 Mbit/s

95th percentile per-packet one-way delay: 122.987 ms

Loss rate: 0.56%

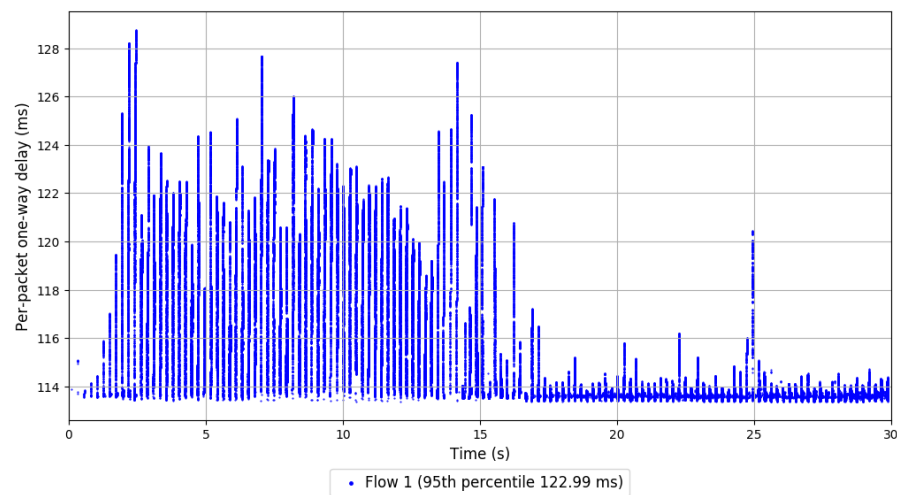
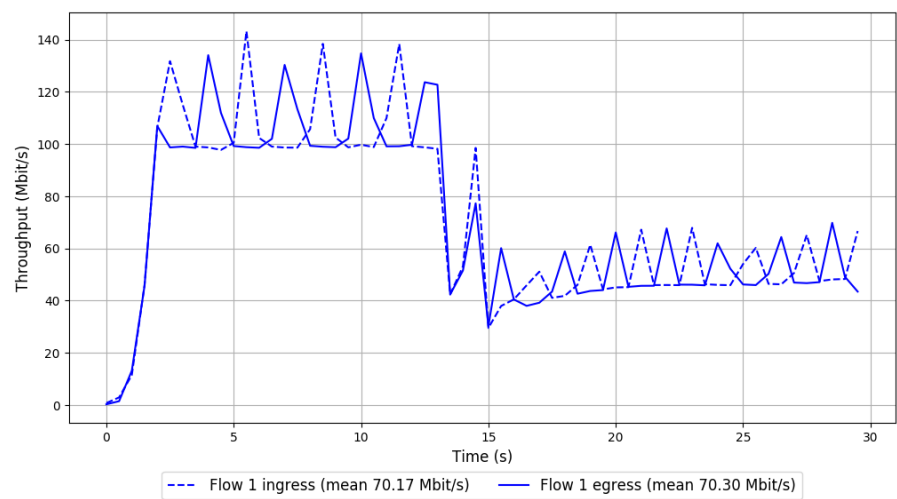
-- Flow 1:

Average throughput: 70.30 Mbit/s

95th percentile per-packet one-way delay: 122.987 ms

Loss rate: 0.56%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-26 21:40:44

End at: 2018-03-26 21:41:14

Below is generated by plot.py at 2018-03-27 01:06:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.55 Mbit/s

95th percentile per-packet one-way delay: 116.315 ms

Loss rate: 0.77%

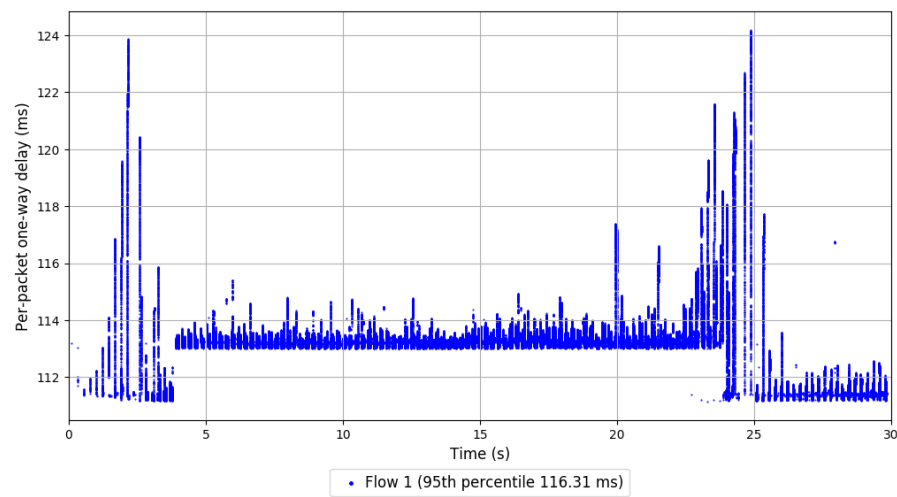
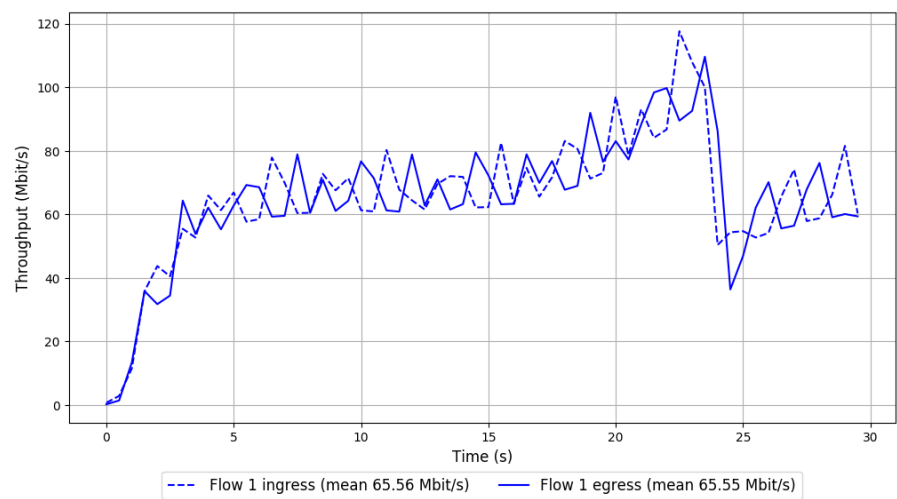
-- Flow 1:

Average throughput: 65.55 Mbit/s

95th percentile per-packet one-way delay: 116.315 ms

Loss rate: 0.77%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-26 21:56:13

End at: 2018-03-26 21:56:43

Below is generated by plot.py at 2018-03-27 01:06:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 122.078 ms

Loss rate: 0.60%

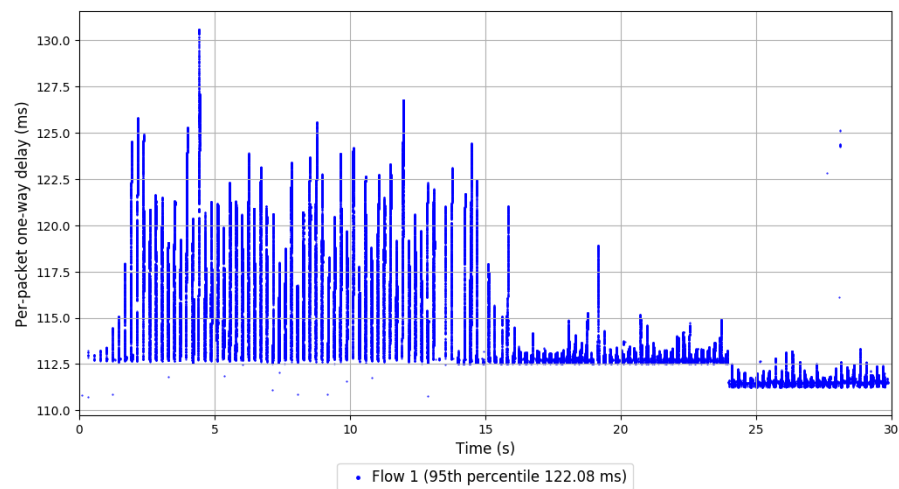
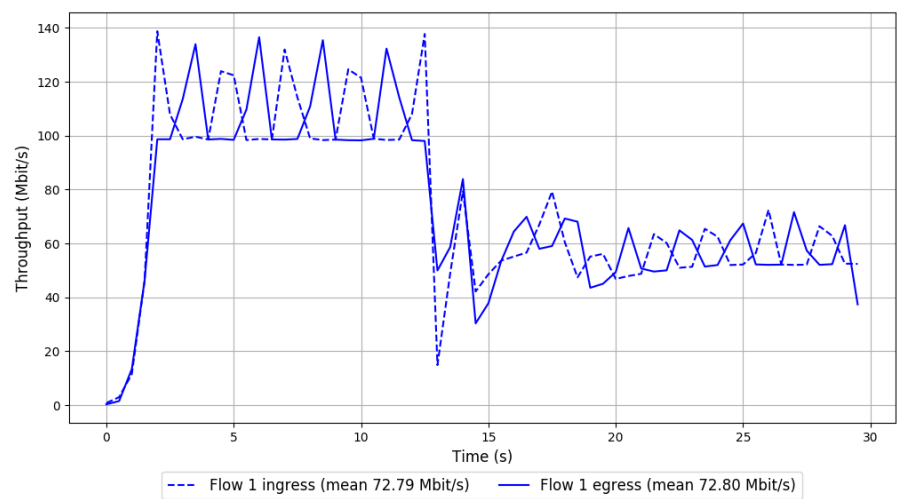
-- Flow 1:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 122.078 ms

Loss rate: 0.60%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-26 22:11:49

End at: 2018-03-26 22:12:19

Below is generated by plot.py at 2018-03-27 01:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.68 Mbit/s

95th percentile per-packet one-way delay: 122.313 ms

Loss rate: 0.80%

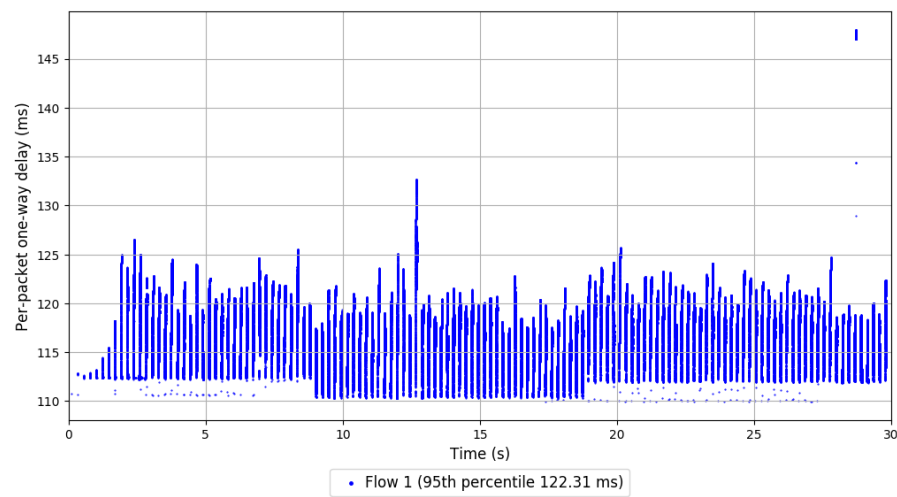
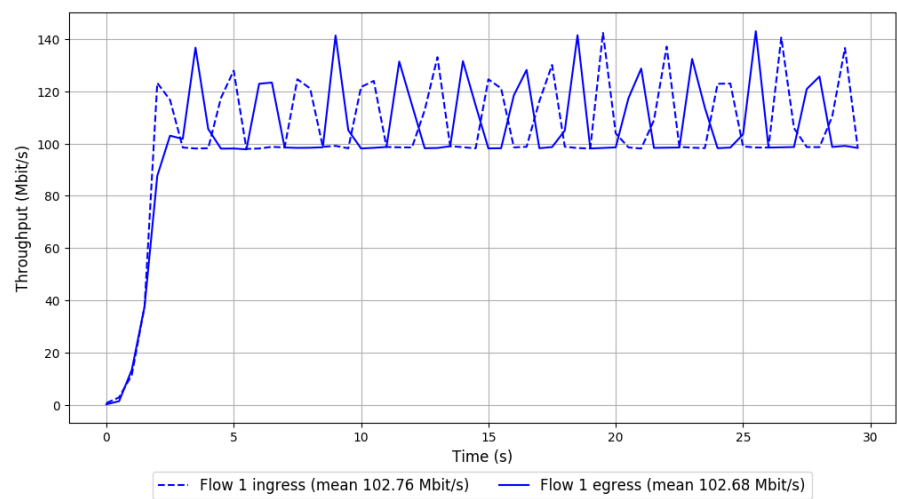
-- Flow 1:

Average throughput: 102.68 Mbit/s

95th percentile per-packet one-way delay: 122.313 ms

Loss rate: 0.80%

Run 10: Report of TCP Cubic — Data Link

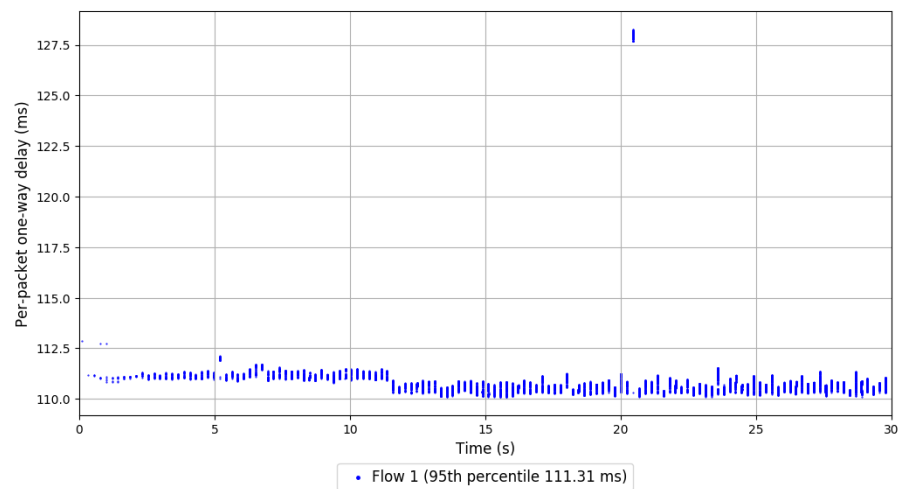
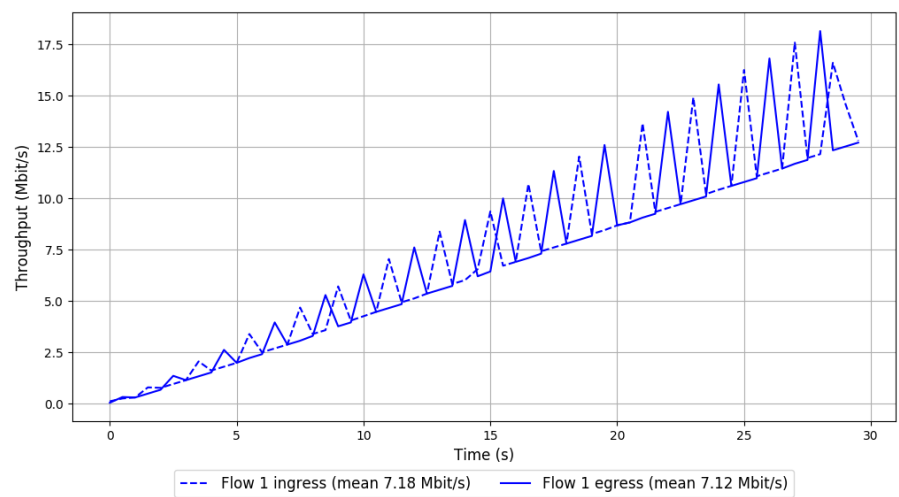


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-26 19:48:26
End at: 2018-03-26 19:48:56

# Below is generated by plot.py at 2018-03-27 01:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 111.310 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 111.310 ms
Loss rate: 1.50%
```

Run 1: Report of LEDBAT — Data Link

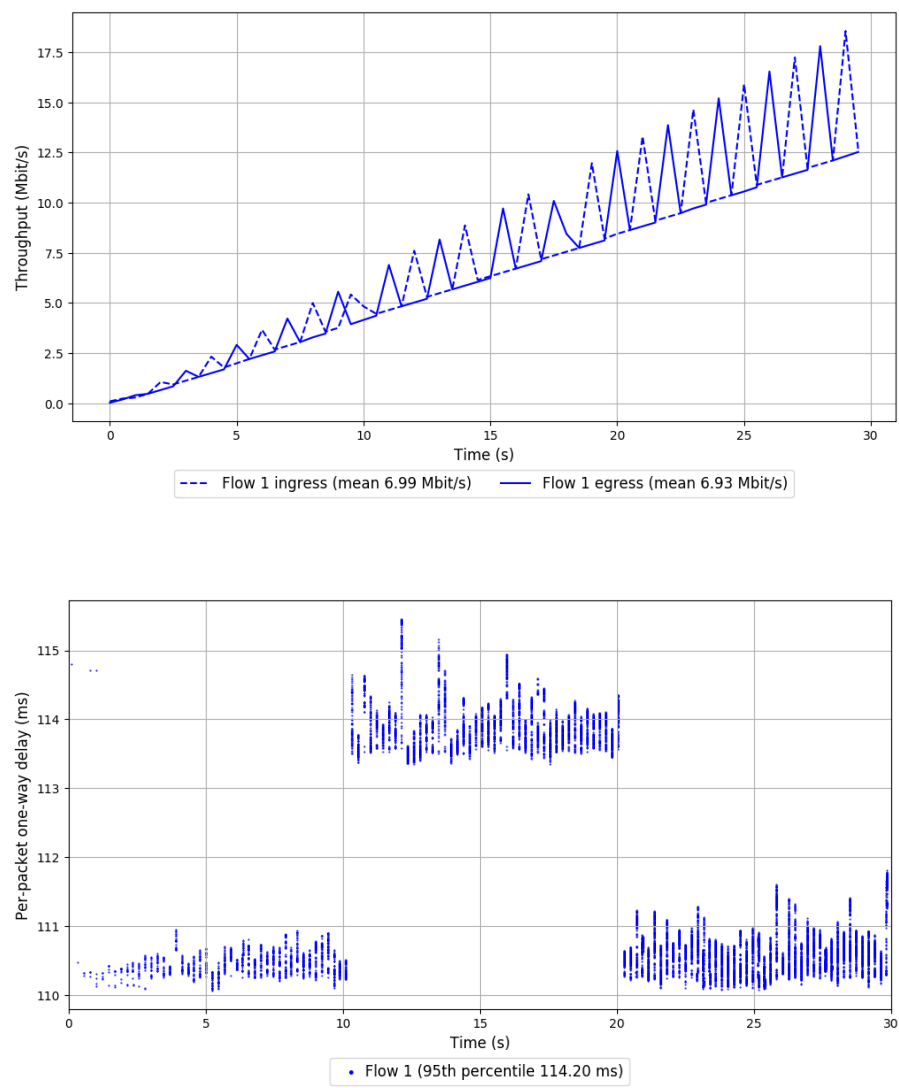


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-26 20:03:57
End at: 2018-03-26 20:04:27

# Below is generated by plot.py at 2018-03-27 01:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 114.200 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 114.200 ms
Loss rate: 1.51%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-26 20:19:18

End at: 2018-03-26 20:19:48

Below is generated by plot.py at 2018-03-27 01:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 114.375 ms

Loss rate: 1.52%

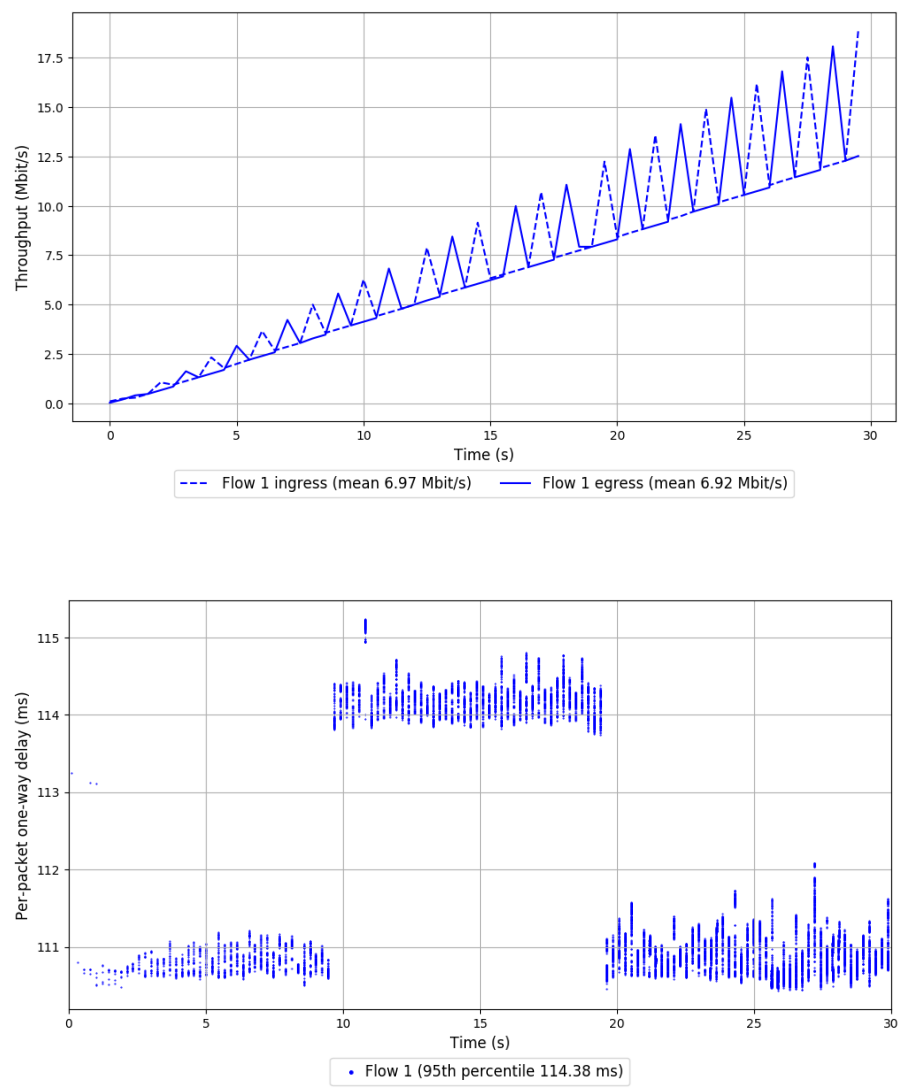
-- Flow 1:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 114.375 ms

Loss rate: 1.52%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-26 20:34:40

End at: 2018-03-26 20:35:10

Below is generated by plot.py at 2018-03-27 01:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 115.035 ms

Loss rate: 1.54%

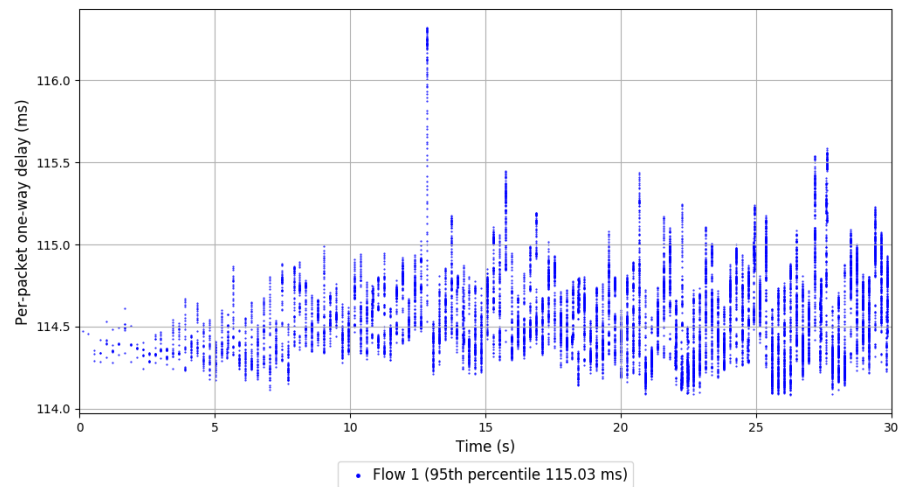
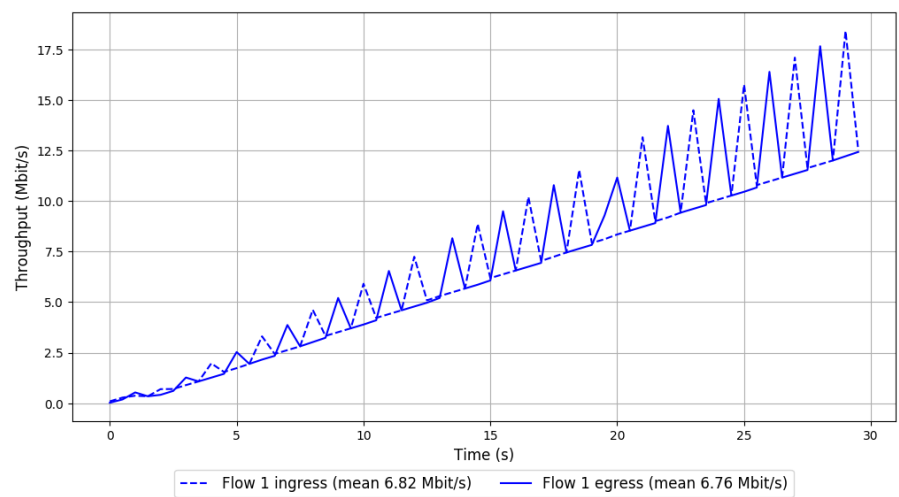
-- Flow 1:

Average throughput: 6.76 Mbit/s

95th percentile per-packet one-way delay: 115.035 ms

Loss rate: 1.54%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-26 20:50:02

End at: 2018-03-26 20:50:32

Below is generated by plot.py at 2018-03-27 01:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 115.266 ms

Loss rate: 1.52%

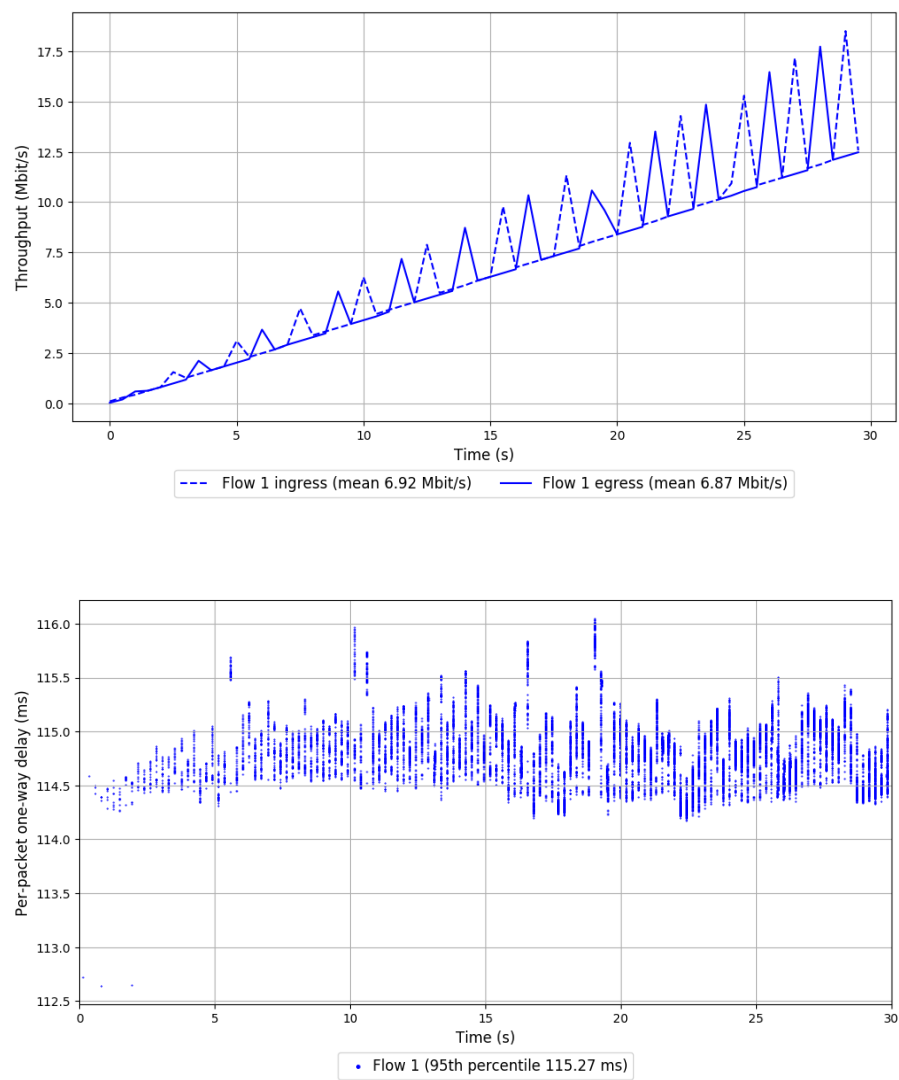
-- Flow 1:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 115.266 ms

Loss rate: 1.52%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-26 21:05:24

End at: 2018-03-26 21:05:54

Below is generated by plot.py at 2018-03-27 01:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 114.545 ms

Loss rate: 1.09%

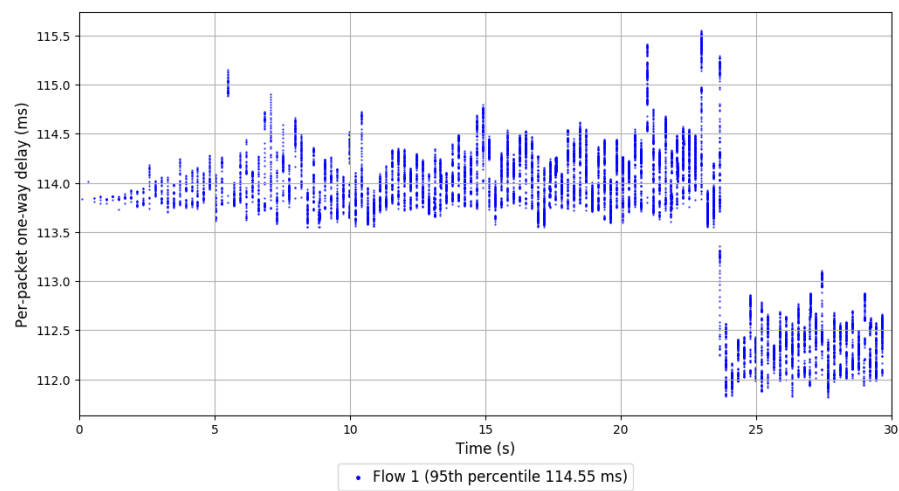
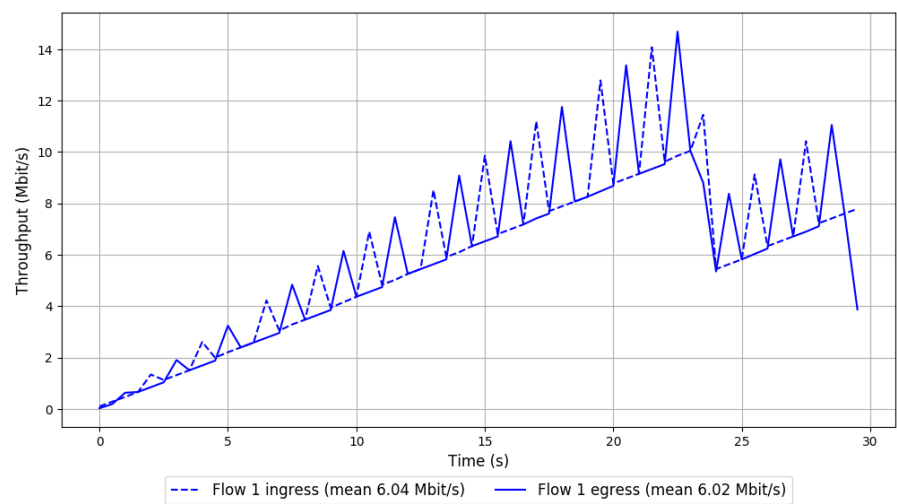
-- Flow 1:

Average throughput: 6.02 Mbit/s

95th percentile per-packet one-way delay: 114.545 ms

Loss rate: 1.09%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-26 21:20:49

End at: 2018-03-26 21:21:19

Below is generated by plot.py at 2018-03-27 01:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 114.899 ms

Loss rate: 1.52%

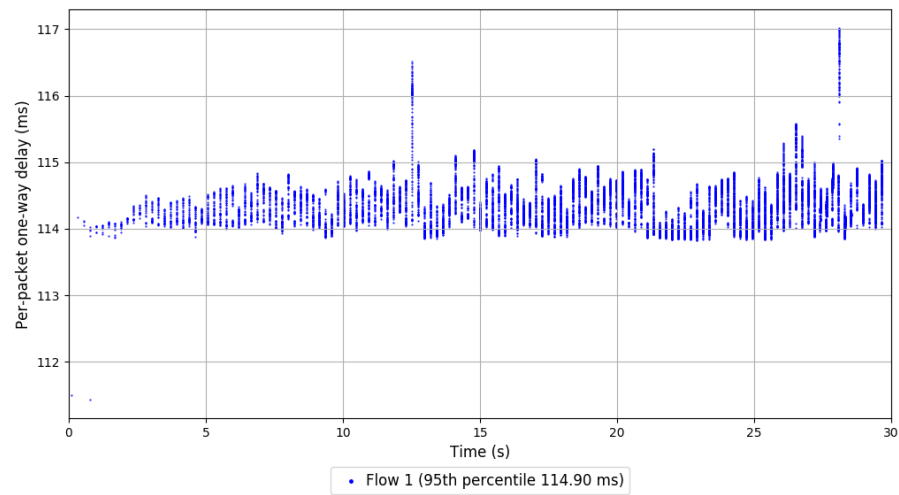
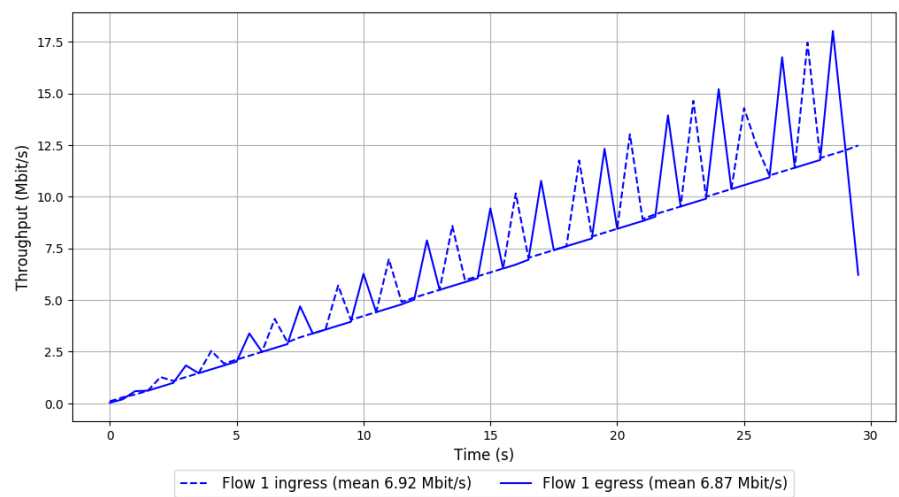
-- Flow 1:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 114.899 ms

Loss rate: 1.52%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-26 21:36:08

End at: 2018-03-26 21:36:38

Below is generated by plot.py at 2018-03-27 01:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 112.245 ms

Loss rate: 1.51%

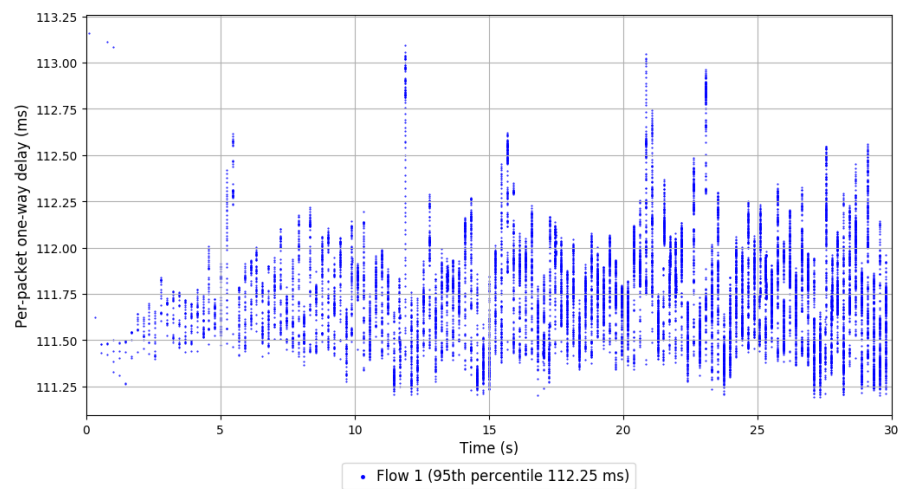
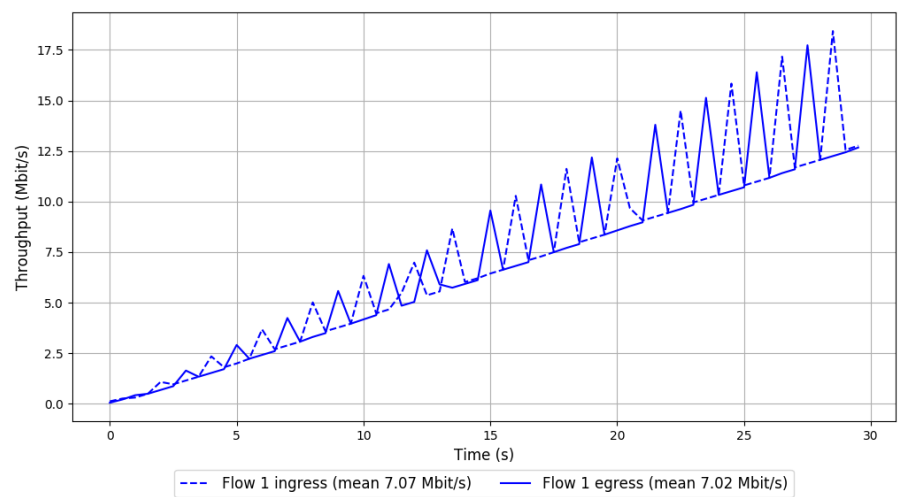
-- Flow 1:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 112.245 ms

Loss rate: 1.51%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-26 21:51:33

End at: 2018-03-26 21:52:03

Below is generated by plot.py at 2018-03-27 01:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 113.825 ms

Loss rate: 1.51%

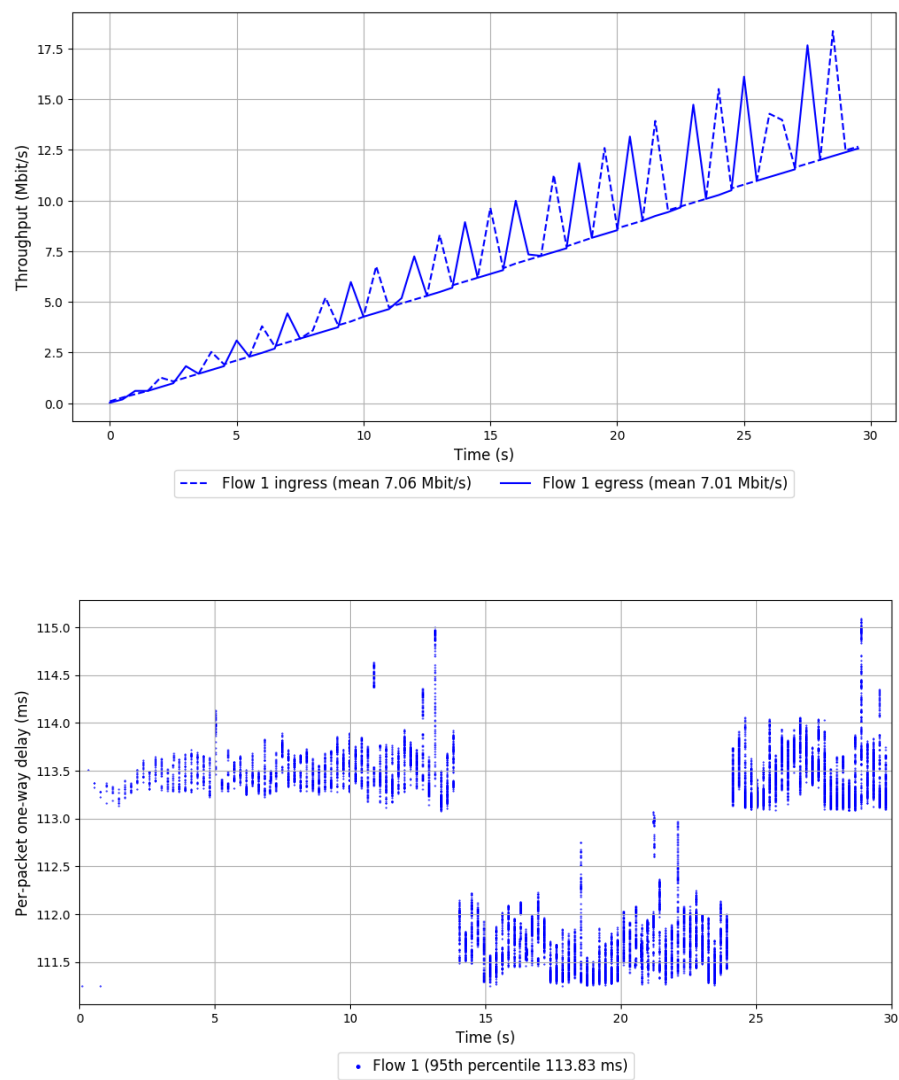
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 113.825 ms

Loss rate: 1.51%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-26 22:07:12

End at: 2018-03-26 22:07:42

Below is generated by plot.py at 2018-03-27 01:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 112.751 ms

Loss rate: 3.65%

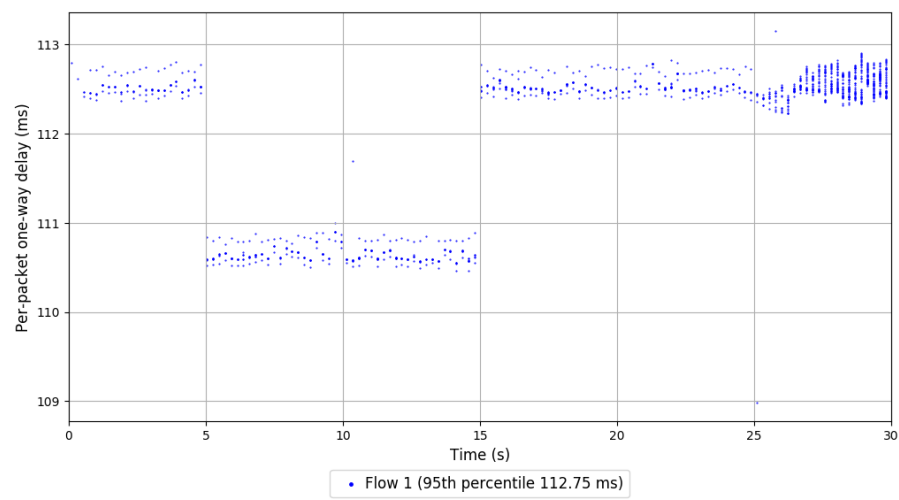
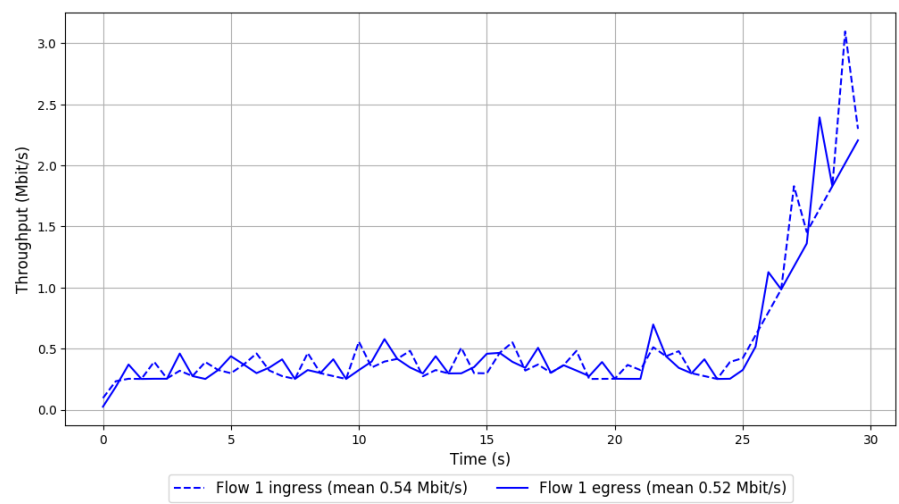
-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 112.751 ms

Loss rate: 3.65%

Run 10: Report of LEDBAT — Data Link

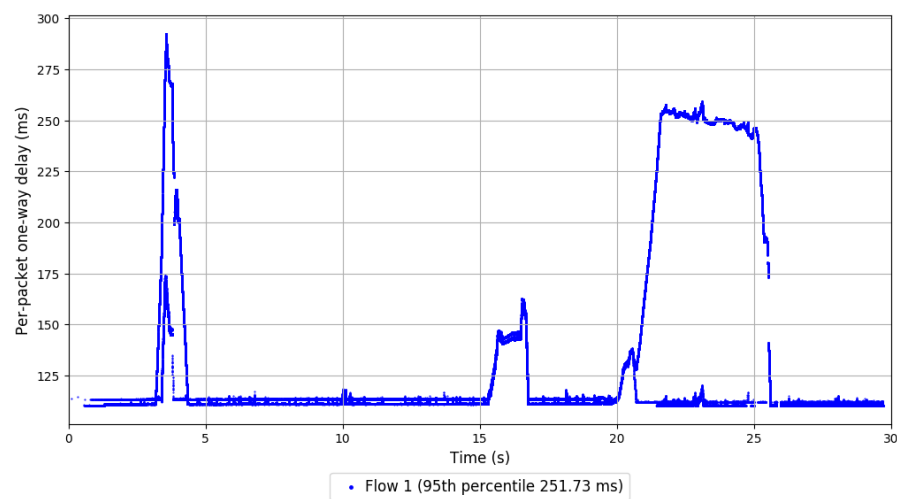
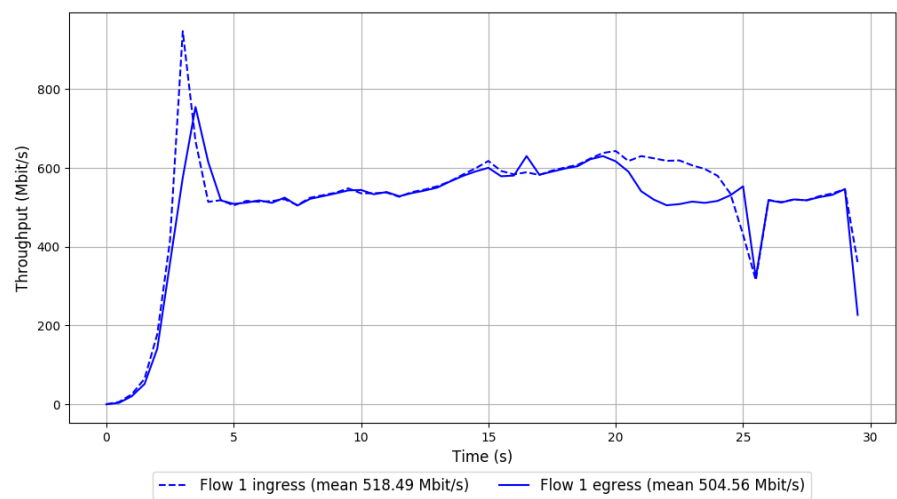


```
Run 1: Statistics of PCC

Start at: 2018-03-26 19:51:06
End at: 2018-03-26 19:51:36

# Below is generated by plot.py at 2018-03-27 01:15:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 504.56 Mbit/s
95th percentile per-packet one-way delay: 251.730 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 504.56 Mbit/s
95th percentile per-packet one-way delay: 251.730 ms
Loss rate: 3.42%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-26 20:06:42

End at: 2018-03-26 20:07:12

Below is generated by plot.py at 2018-03-27 01:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.65 Mbit/s

95th percentile per-packet one-way delay: 254.920 ms

Loss rate: 5.73%

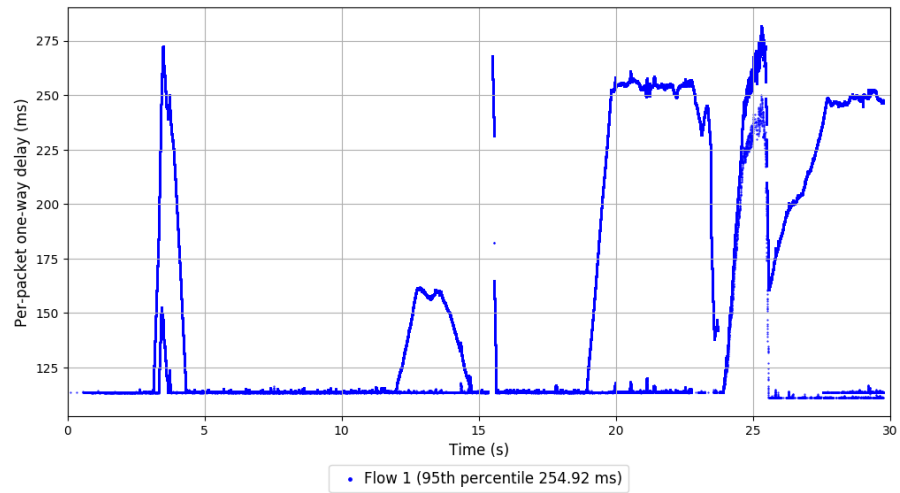
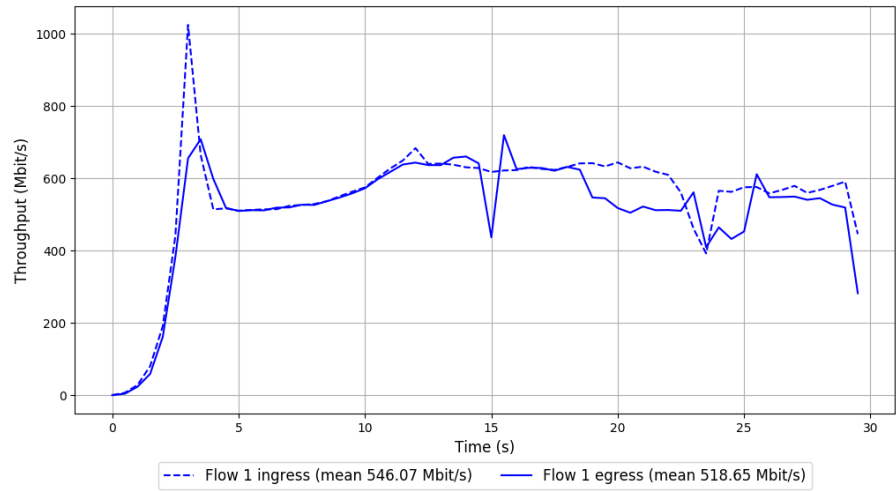
-- Flow 1:

Average throughput: 518.65 Mbit/s

95th percentile per-packet one-way delay: 254.920 ms

Loss rate: 5.73%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-26 20:22:00

End at: 2018-03-26 20:22:30

Below is generated by plot.py at 2018-03-27 01:15:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.96 Mbit/s

95th percentile per-packet one-way delay: 138.556 ms

Loss rate: 1.44%

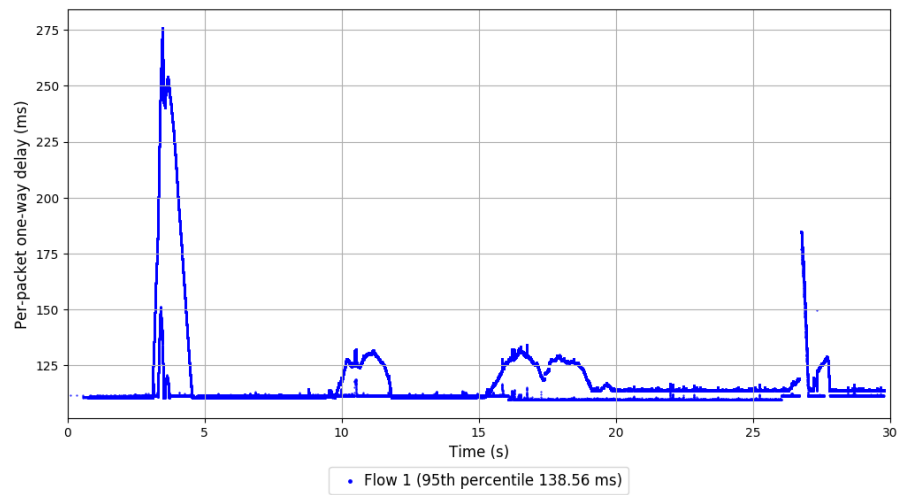
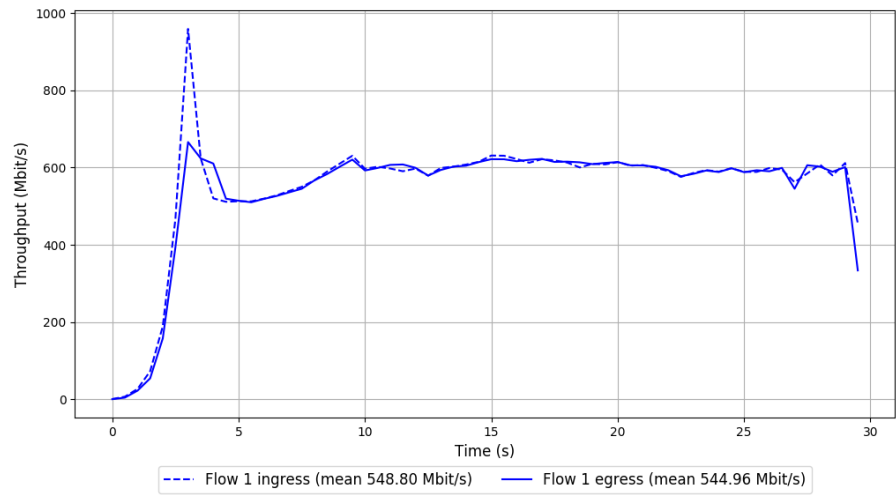
-- Flow 1:

Average throughput: 544.96 Mbit/s

95th percentile per-packet one-way delay: 138.556 ms

Loss rate: 1.44%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-26 20:37:25

End at: 2018-03-26 20:37:55

Below is generated by plot.py at 2018-03-27 01:15:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.11 Mbit/s

95th percentile per-packet one-way delay: 234.906 ms

Loss rate: 2.03%

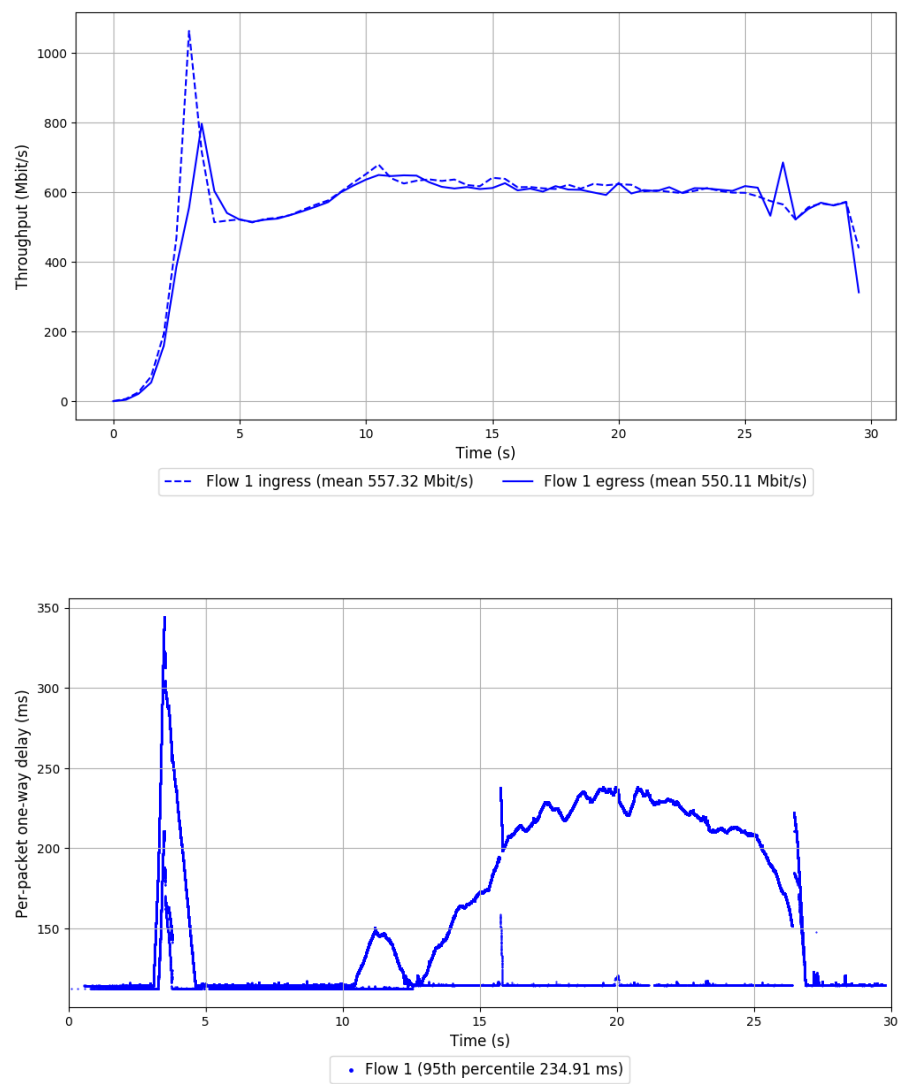
-- Flow 1:

Average throughput: 550.11 Mbit/s

95th percentile per-packet one-way delay: 234.906 ms

Loss rate: 2.03%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-26 20:52:45

End at: 2018-03-26 20:53:15

Below is generated by plot.py at 2018-03-27 01:15:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.73 Mbit/s

95th percentile per-packet one-way delay: 249.020 ms

Loss rate: 2.86%

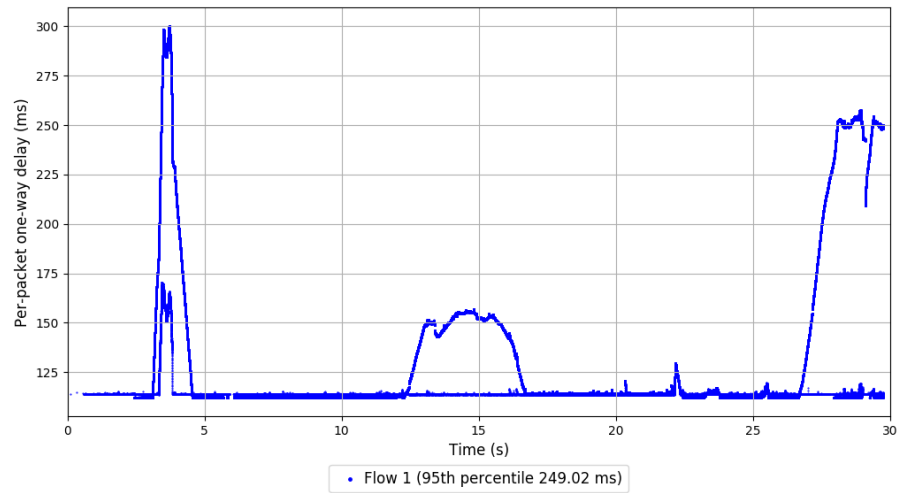
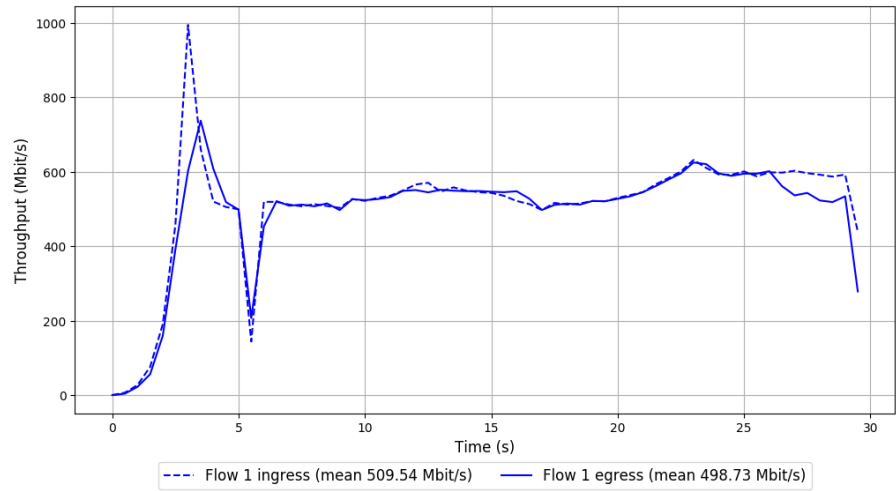
-- Flow 1:

Average throughput: 498.73 Mbit/s

95th percentile per-packet one-way delay: 249.020 ms

Loss rate: 2.86%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-26 21:08:06

End at: 2018-03-26 21:08:36

Below is generated by plot.py at 2018-03-27 01:15:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.10 Mbit/s

95th percentile per-packet one-way delay: 205.685 ms

Loss rate: 1.91%

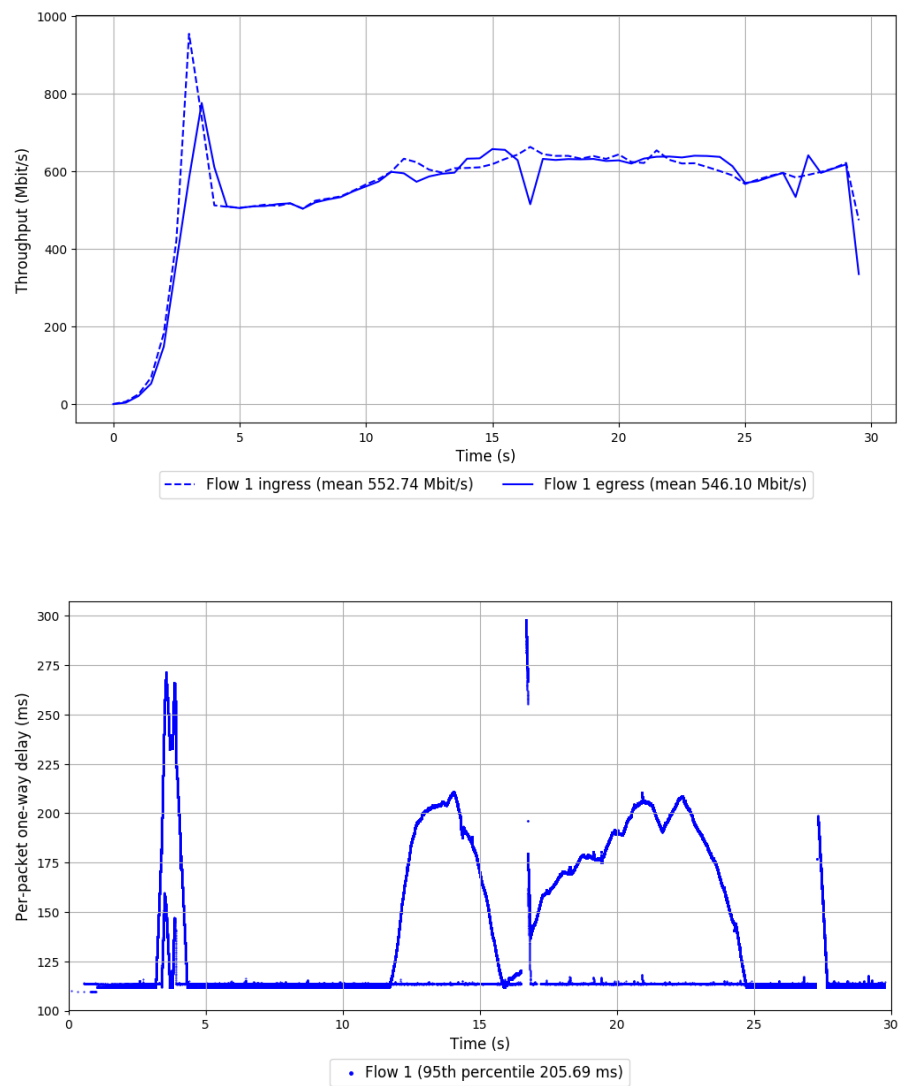
-- Flow 1:

Average throughput: 546.10 Mbit/s

95th percentile per-packet one-way delay: 205.685 ms

Loss rate: 1.91%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-26 21:23:28

End at: 2018-03-26 21:23:58

Below is generated by plot.py at 2018-03-27 01:16:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.40 Mbit/s

95th percentile per-packet one-way delay: 231.574 ms

Loss rate: 1.96%

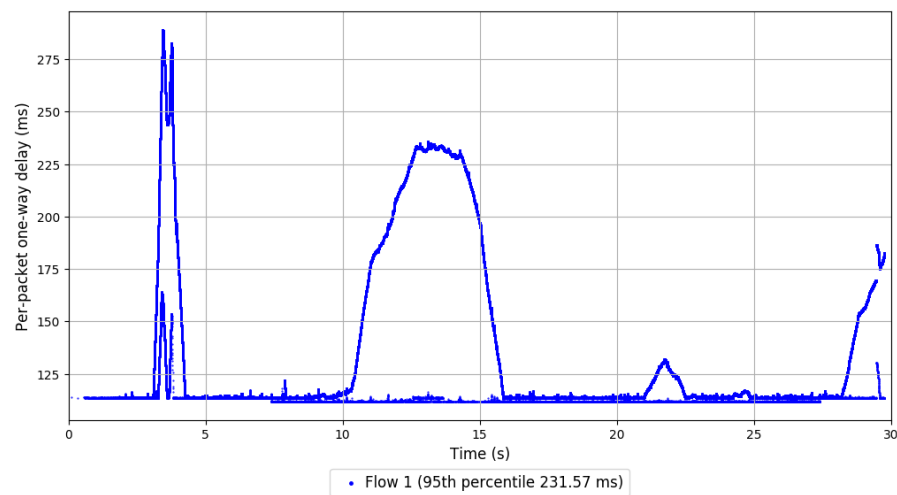
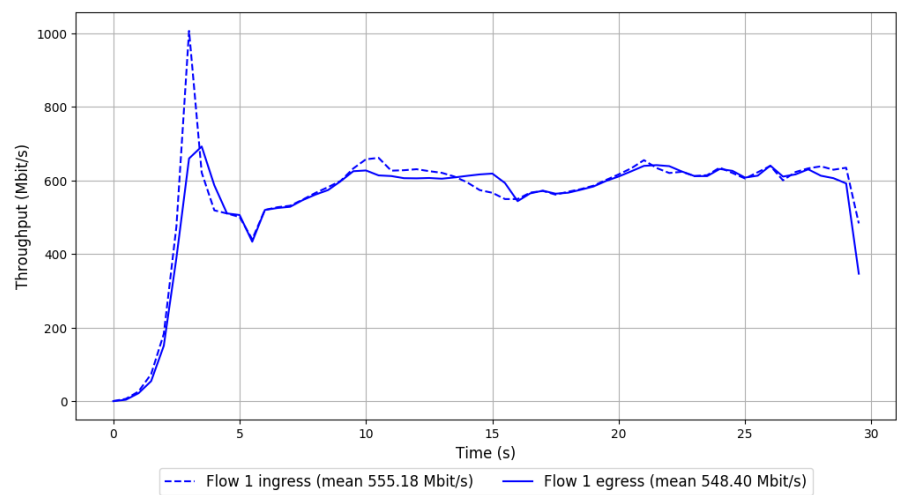
-- Flow 1:

Average throughput: 548.40 Mbit/s

95th percentile per-packet one-way delay: 231.574 ms

Loss rate: 1.96%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-26 21:38:52

End at: 2018-03-26 21:39:22

Below is generated by plot.py at 2018-03-27 01:16:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 488.40 Mbit/s

95th percentile per-packet one-way delay: 252.281 ms

Loss rate: 3.30%

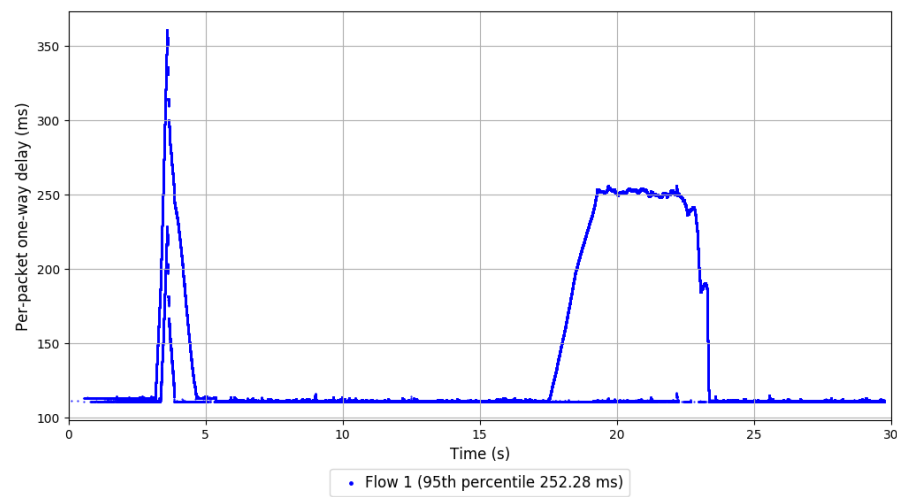
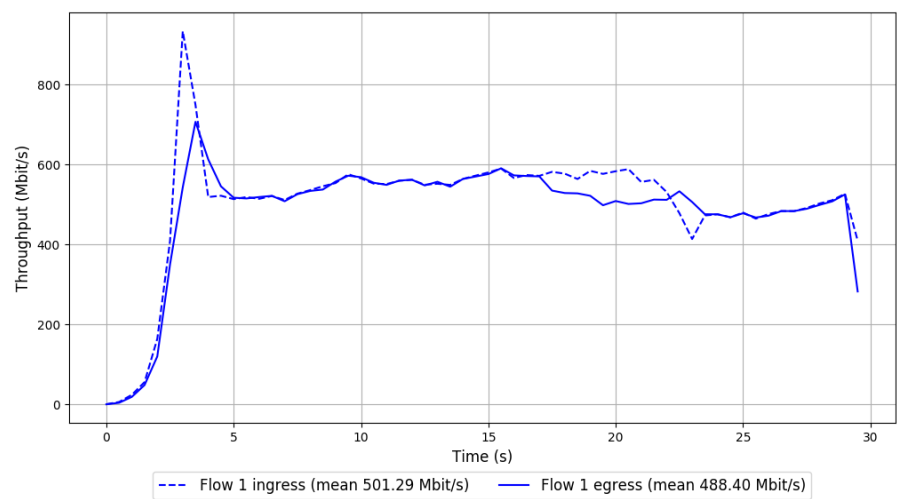
-- Flow 1:

Average throughput: 488.40 Mbit/s

95th percentile per-packet one-way delay: 252.281 ms

Loss rate: 3.30%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-26 21:54:18

End at: 2018-03-26 21:54:48

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.98 Mbit/s

95th percentile per-packet one-way delay: 123.092 ms

Loss rate: 1.47%

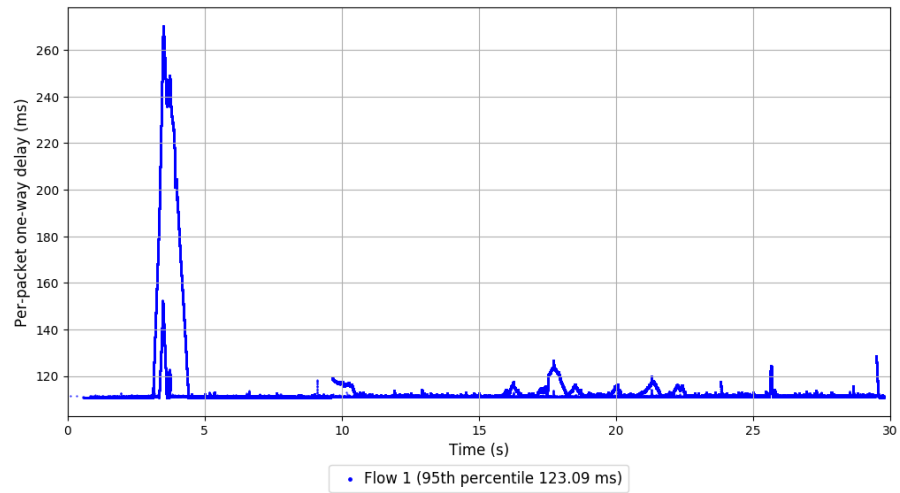
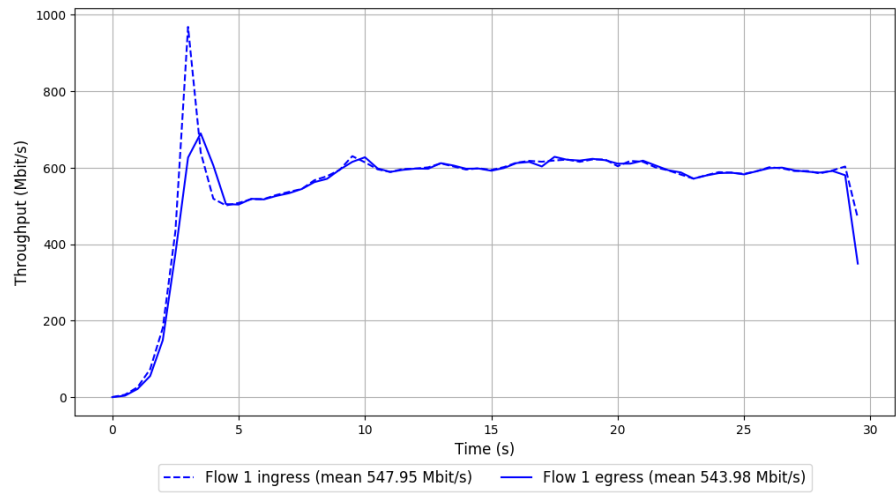
-- Flow 1:

Average throughput: 543.98 Mbit/s

95th percentile per-packet one-way delay: 123.092 ms

Loss rate: 1.47%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-26 22:09:54

End at: 2018-03-26 22:10:24

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.89 Mbit/s

95th percentile per-packet one-way delay: 244.892 ms

Loss rate: 2.14%

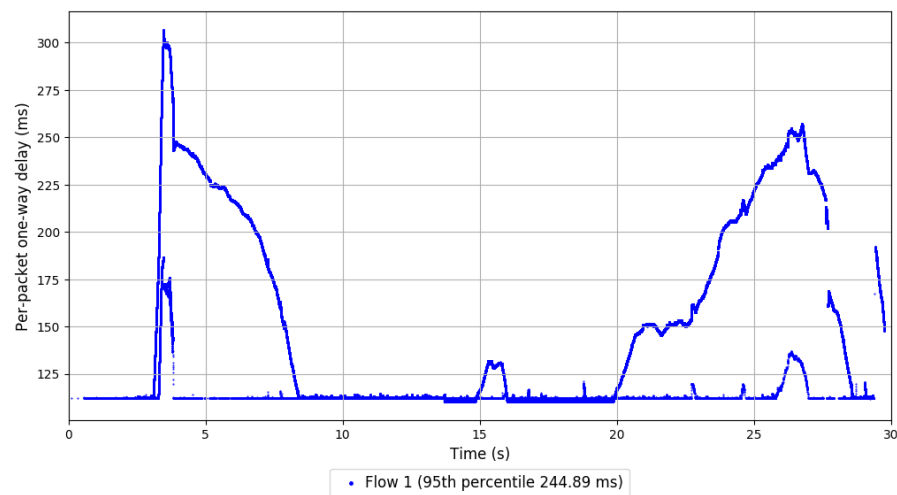
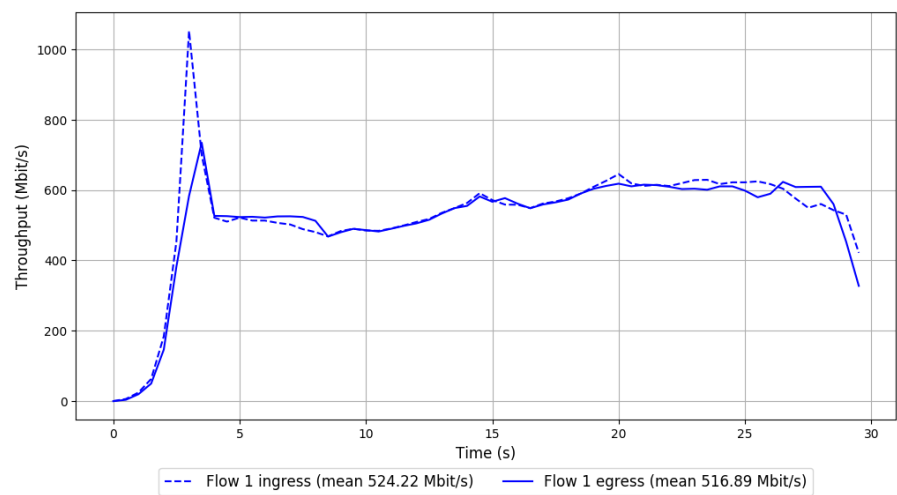
-- Flow 1:

Average throughput: 516.89 Mbit/s

95th percentile per-packet one-way delay: 244.892 ms

Loss rate: 2.14%

Run 10: Report of PCC — Data Link

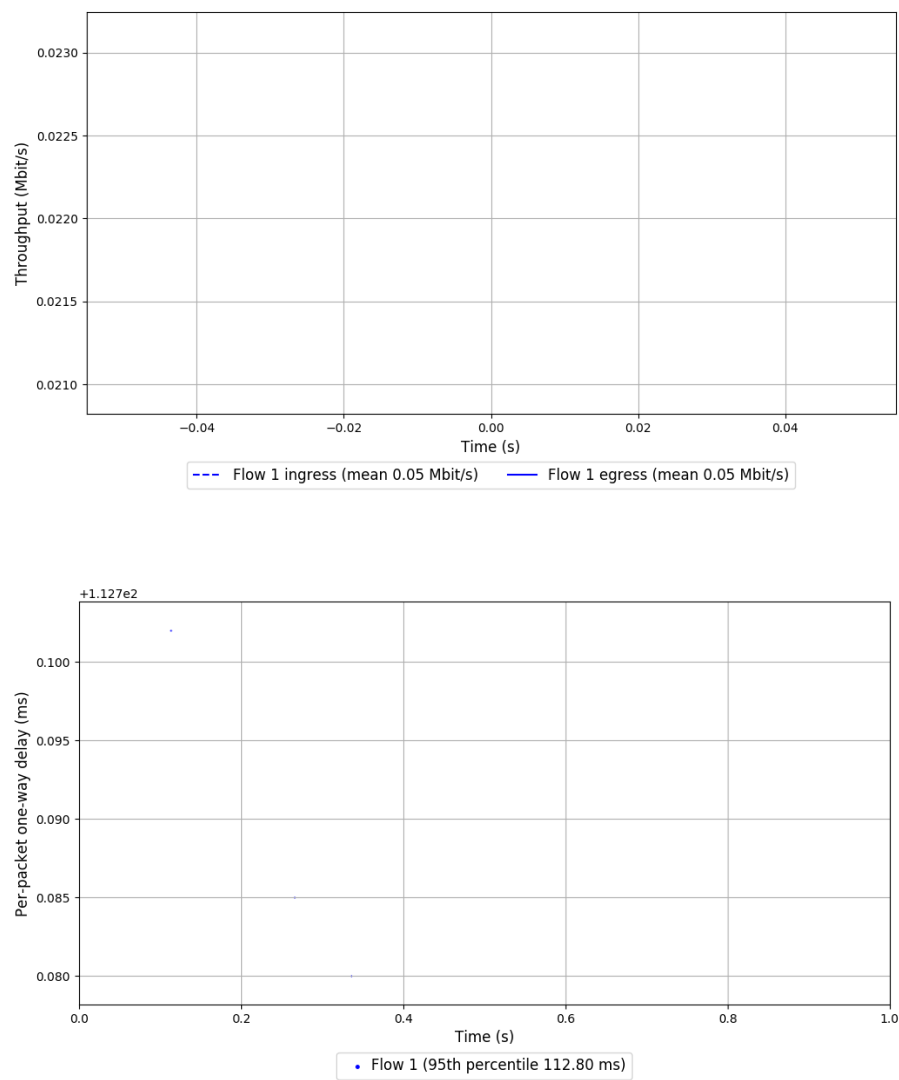


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-26 19:45:27

End at: 2018-03-26 19:45:57

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-26 20:00:53

End at: 2018-03-26 20:01:23

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 114.670 ms

Loss rate: 1.12%

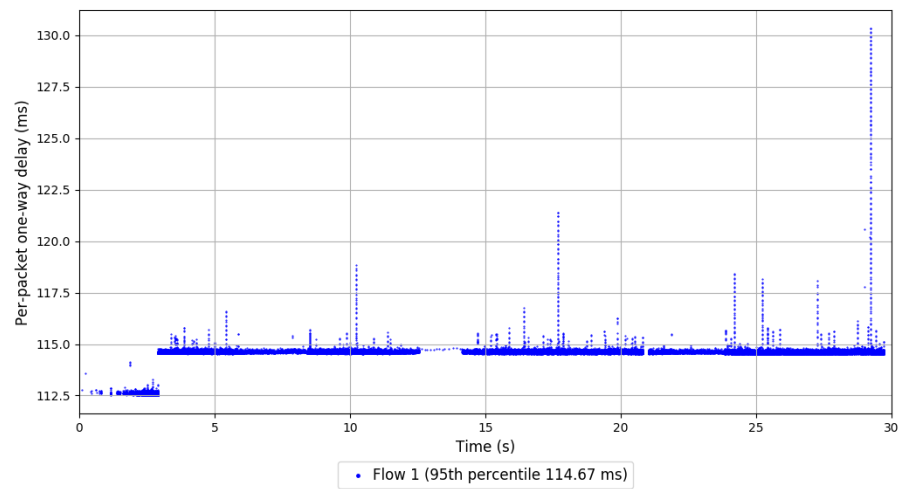
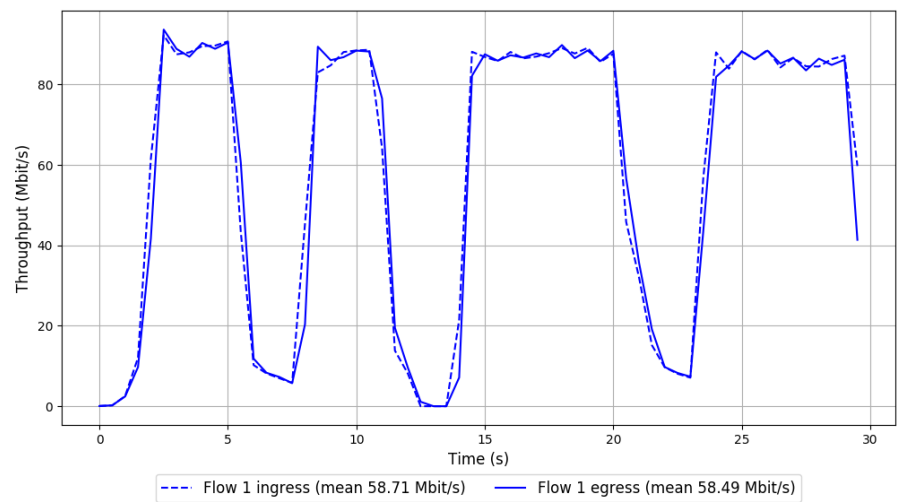
-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 114.670 ms

Loss rate: 1.12%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-26 20:16:13

End at: 2018-03-26 20:16:43

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 113.713 ms

Loss rate: 0.12%

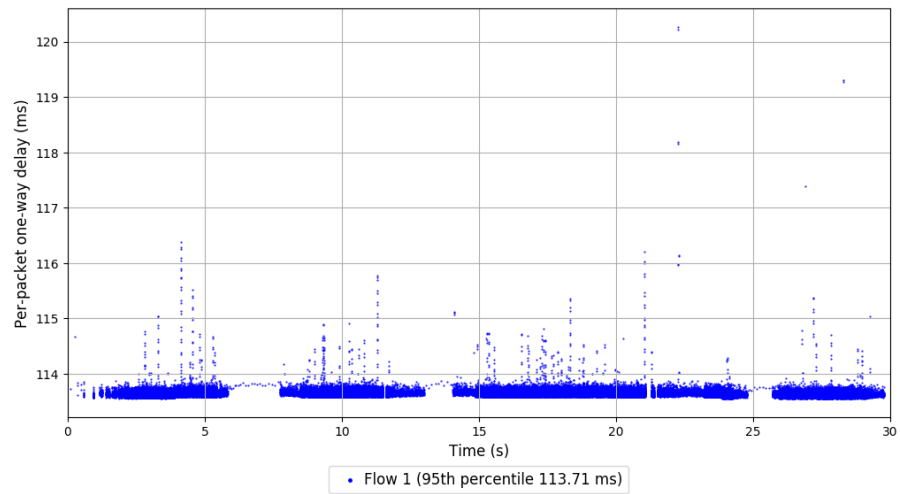
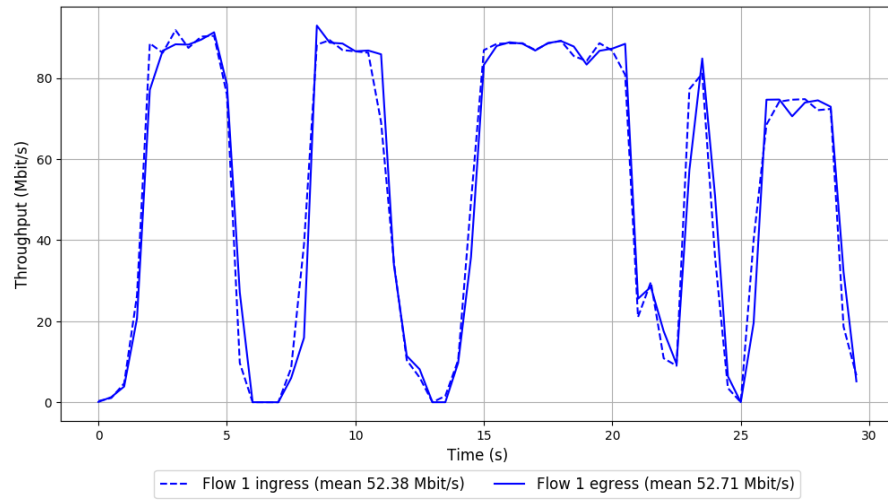
-- Flow 1:

Average throughput: 52.71 Mbit/s

95th percentile per-packet one-way delay: 113.713 ms

Loss rate: 0.12%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-26 20:31:36

End at: 2018-03-26 20:32:06

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 113.955 ms

Loss rate: 0.77%

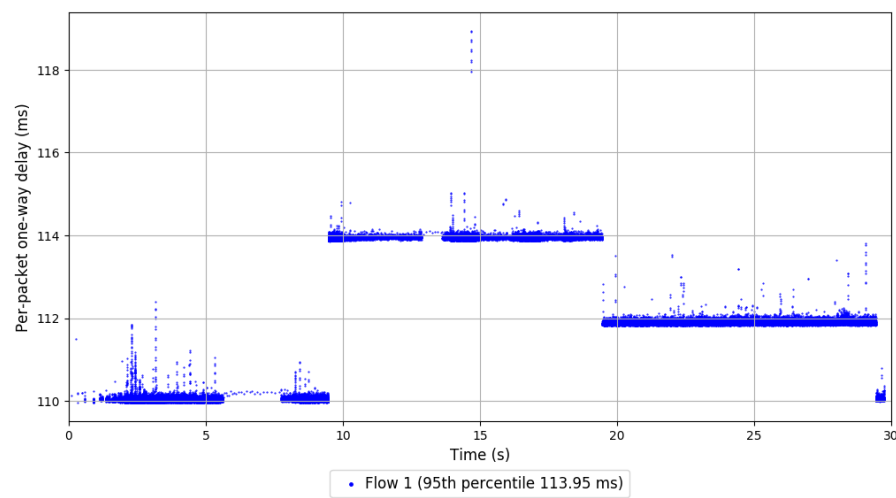
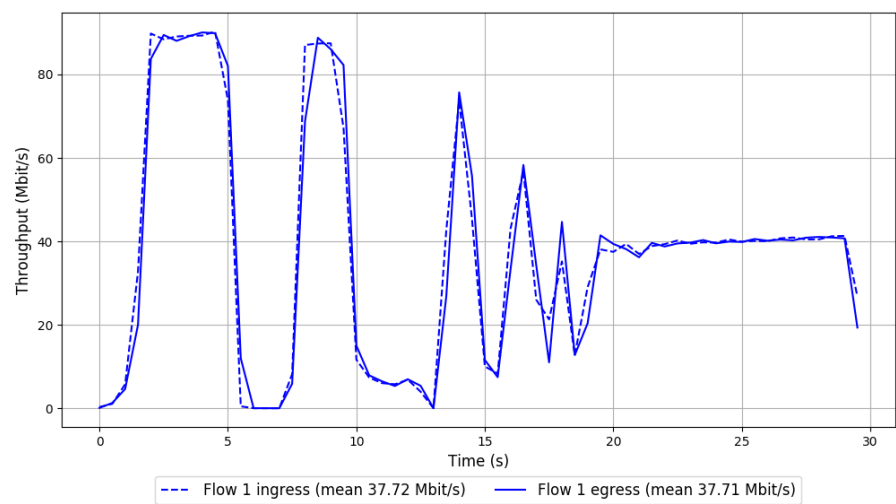
-- Flow 1:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 113.955 ms

Loss rate: 0.77%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-26 20:46:57

End at: 2018-03-26 20:47:27

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 113.137 ms

Loss rate: 0.98%

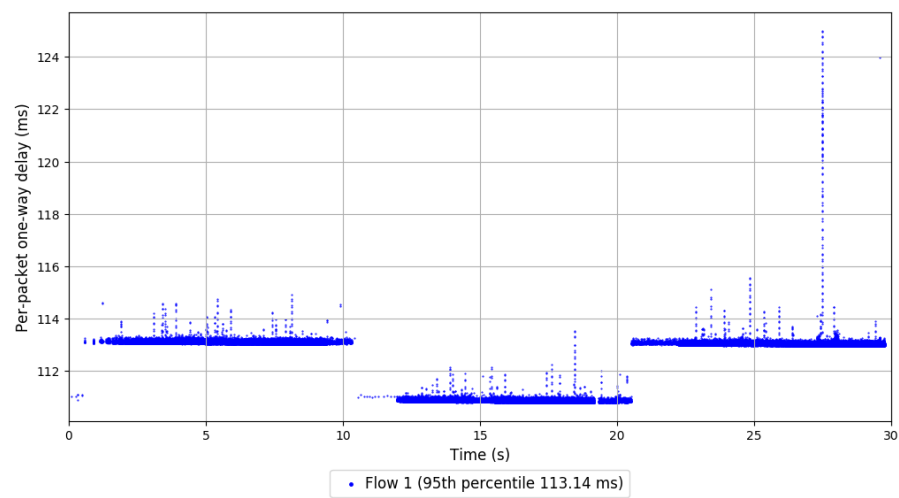
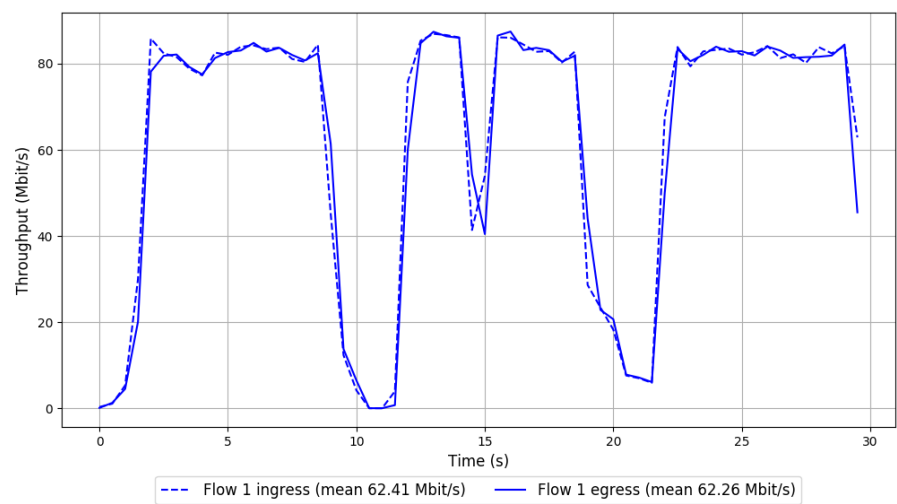
-- Flow 1:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 113.137 ms

Loss rate: 0.98%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-26 21:02:19

End at: 2018-03-26 21:02:49

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.11 Mbit/s

95th percentile per-packet one-way delay: 113.702 ms

Loss rate: 0.88%

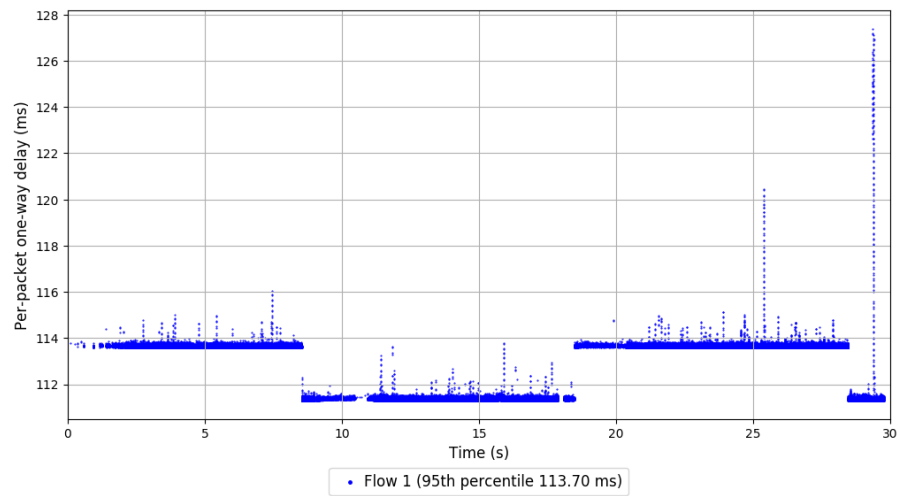
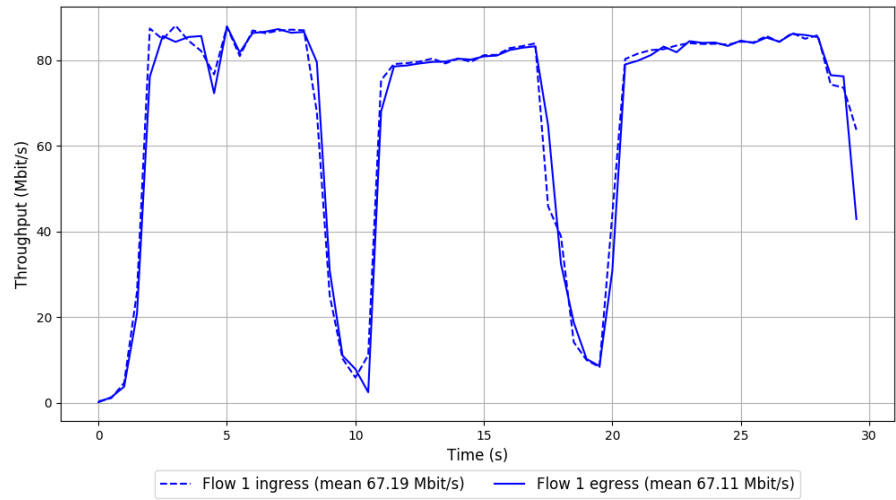
-- Flow 1:

Average throughput: 67.11 Mbit/s

95th percentile per-packet one-way delay: 113.702 ms

Loss rate: 0.88%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-26 21:17:44

End at: 2018-03-26 21:18:14

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 113.437 ms

Loss rate: 1.12%

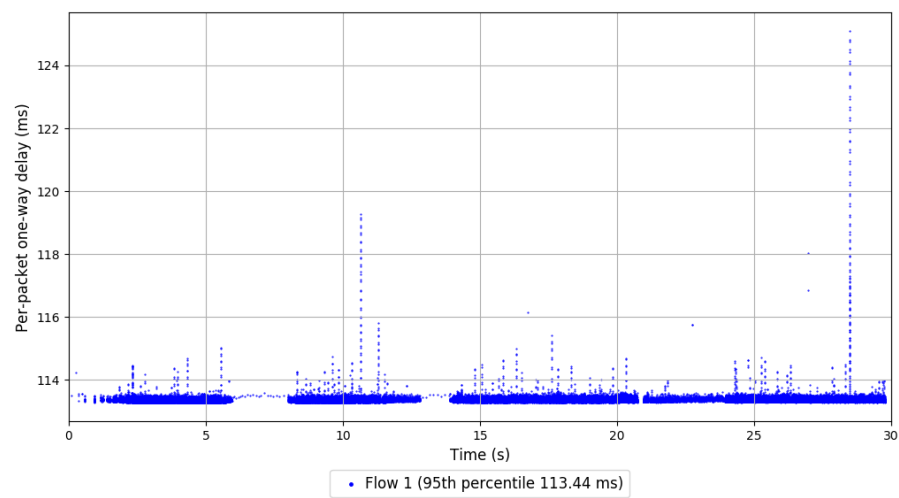
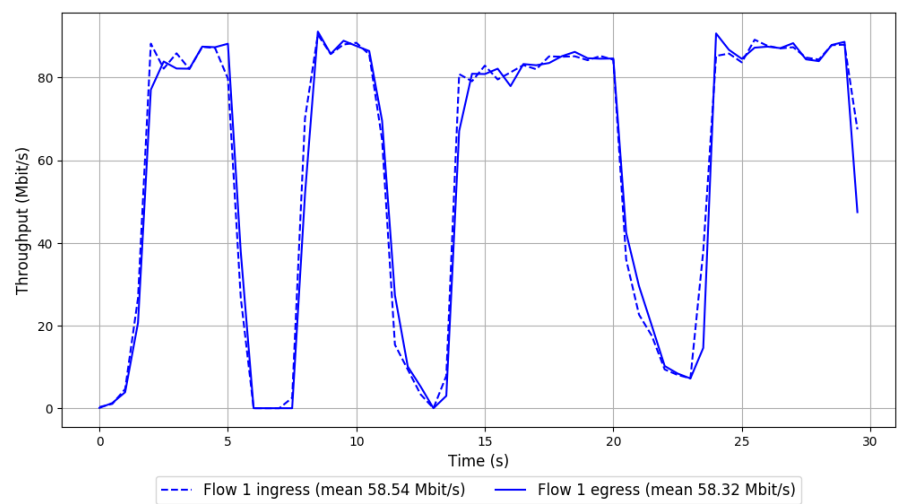
-- Flow 1:

Average throughput: 58.32 Mbit/s

95th percentile per-packet one-way delay: 113.437 ms

Loss rate: 1.12%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-26 21:33:04

End at: 2018-03-26 21:33:34

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.00 Mbit/s

95th percentile per-packet one-way delay: 112.401 ms

Loss rate: 1.13%

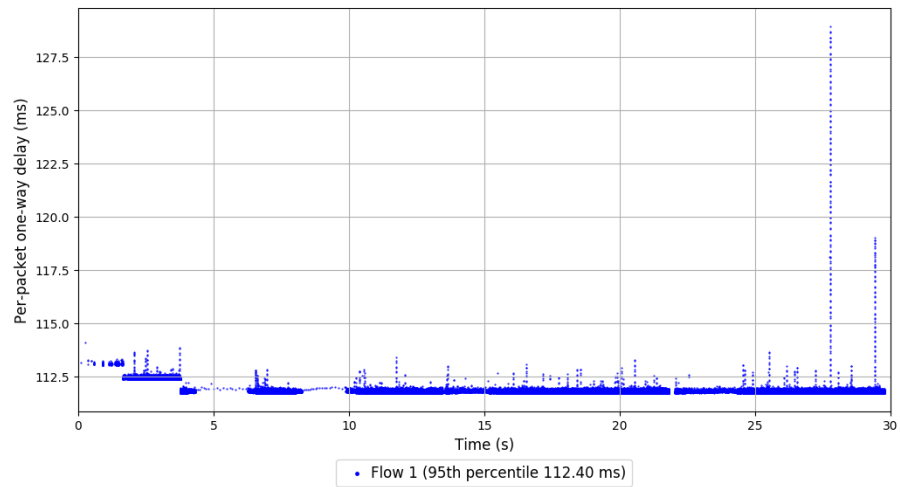
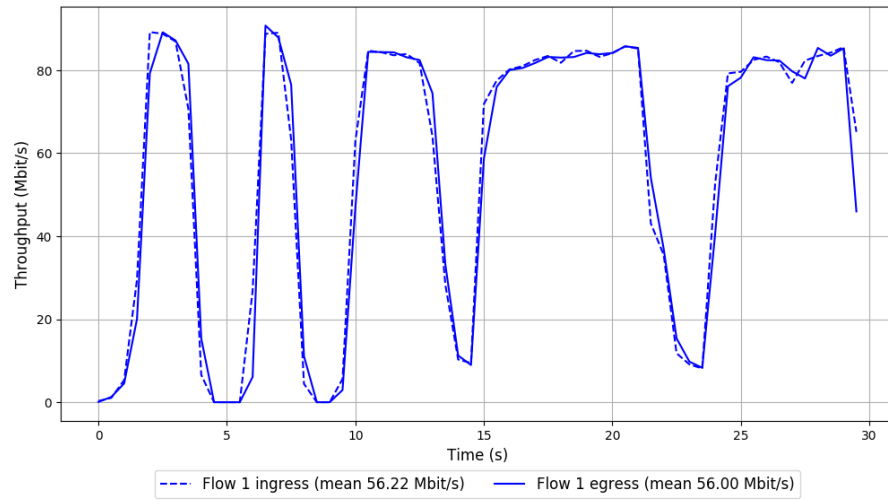
-- Flow 1:

Average throughput: 56.00 Mbit/s

95th percentile per-packet one-way delay: 112.401 ms

Loss rate: 1.13%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-26 21:48:30

End at: 2018-03-26 21:49:00

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 113.152 ms

Loss rate: 1.03%

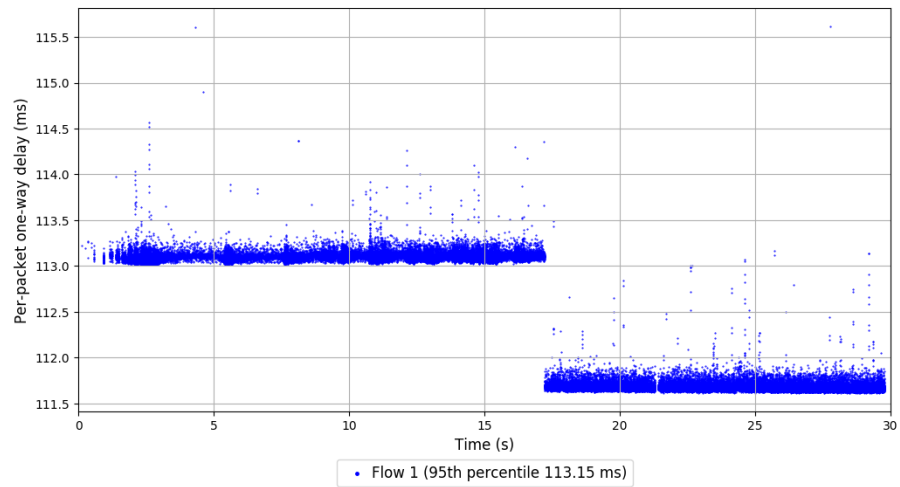
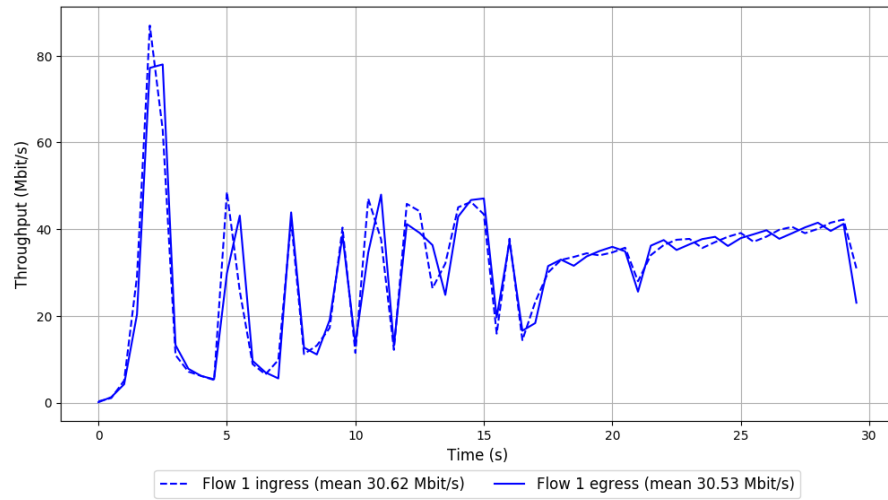
-- Flow 1:

Average throughput: 30.53 Mbit/s

95th percentile per-packet one-way delay: 113.152 ms

Loss rate: 1.03%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-26 22:04:07

End at: 2018-03-26 22:04:37

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 112.059 ms

Loss rate: 0.96%

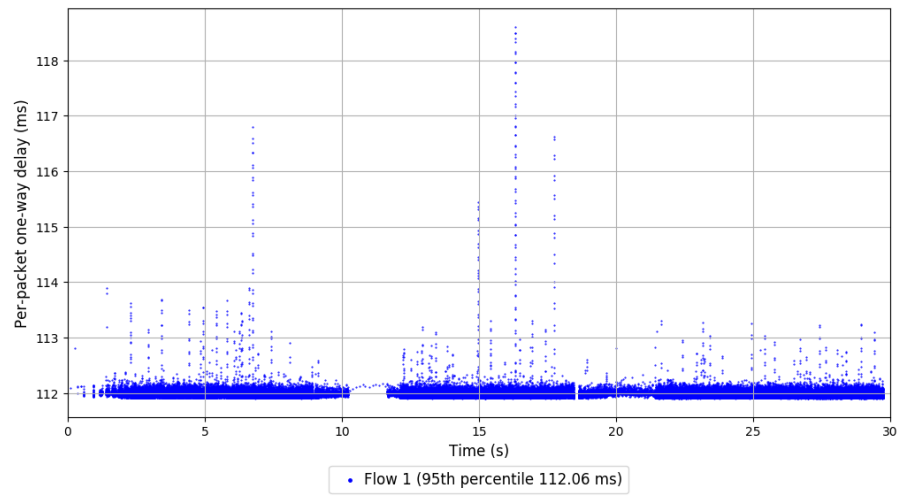
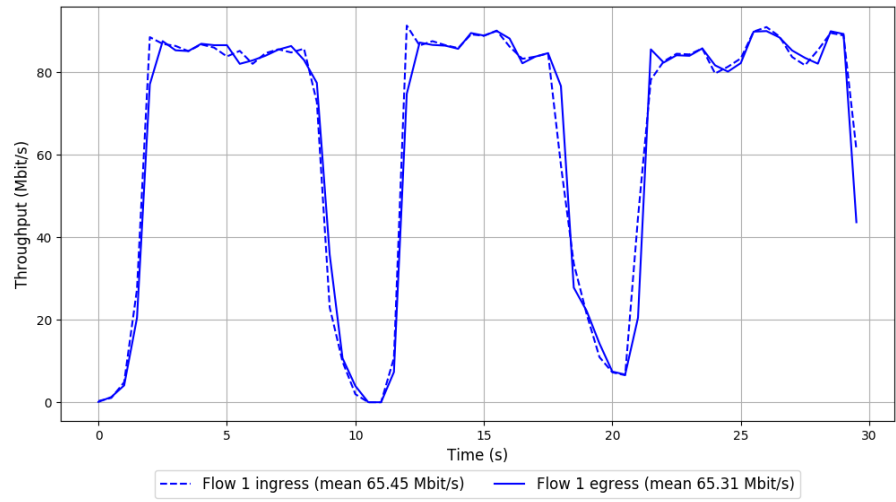
-- Flow 1:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 112.059 ms

Loss rate: 0.96%

Run 10: Report of QUIC Cubic — Data Link

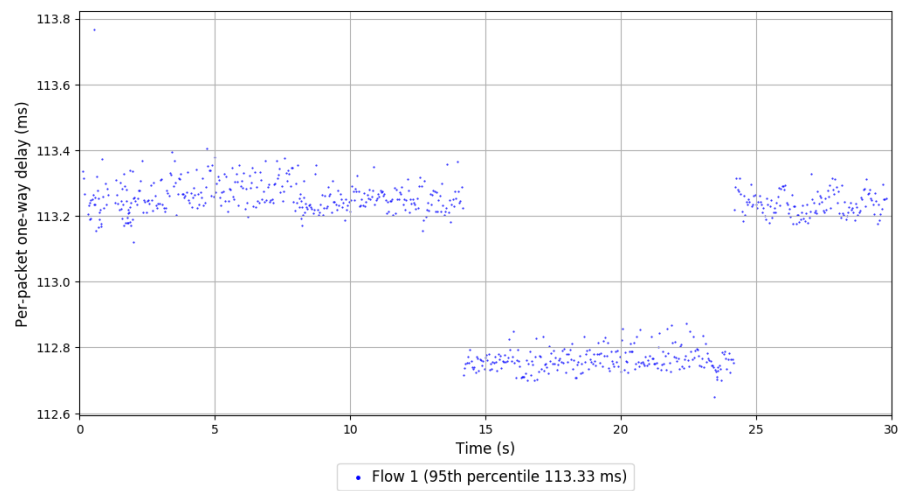
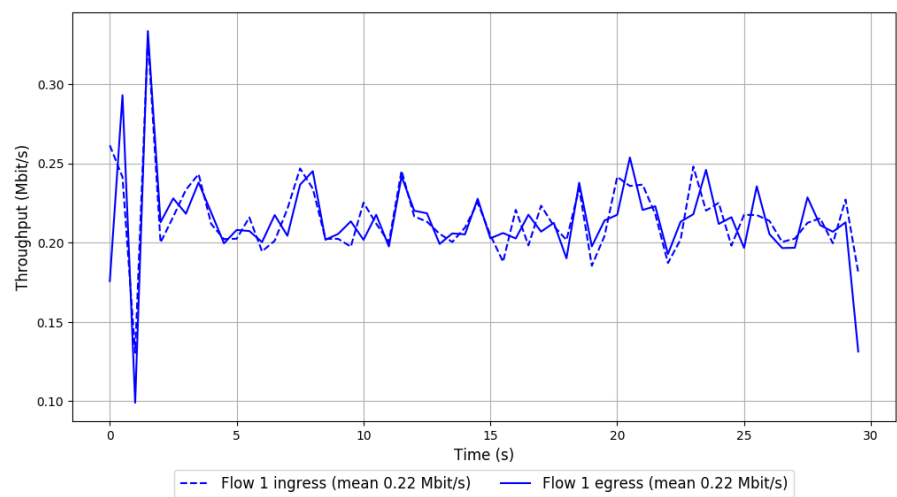


```
Run 1: Statistics of SCReAM

Start at: 2018-03-26 20:00:12
End at: 2018-03-26 20:00:42

# Below is generated by plot.py at 2018-03-27 01:24:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.329 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.329 ms
Loss rate: 0.77%
```

Run 1: Report of SReAM — Data Link

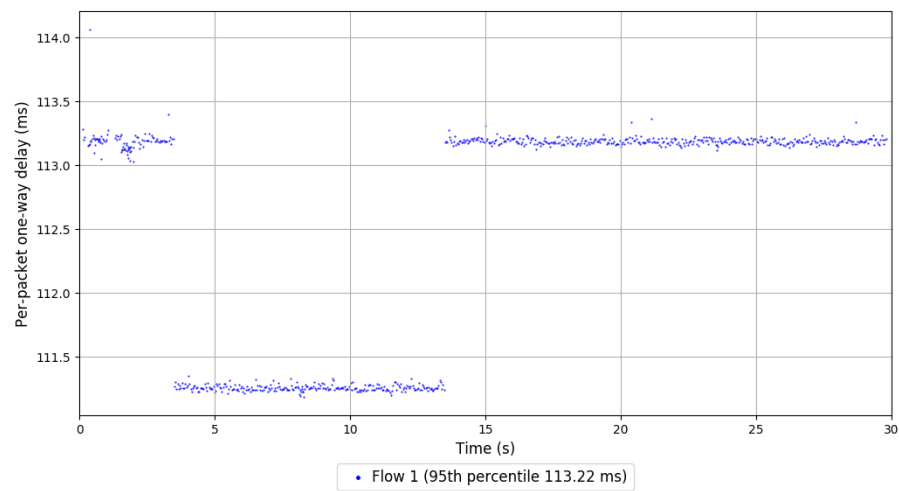
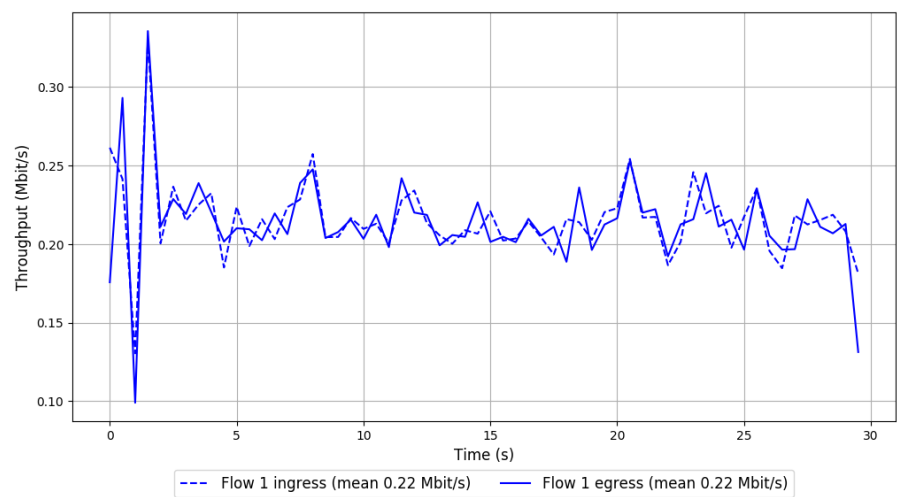


```
Run 2: Statistics of SCReAM

Start at: 2018-03-26 20:15:32
End at: 2018-03-26 20:16:02

# Below is generated by plot.py at 2018-03-27 01:24:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.222 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.222 ms
Loss rate: 0.76%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-26 20:30:55

End at: 2018-03-26 20:31:25

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.228 ms

Loss rate: 0.75%

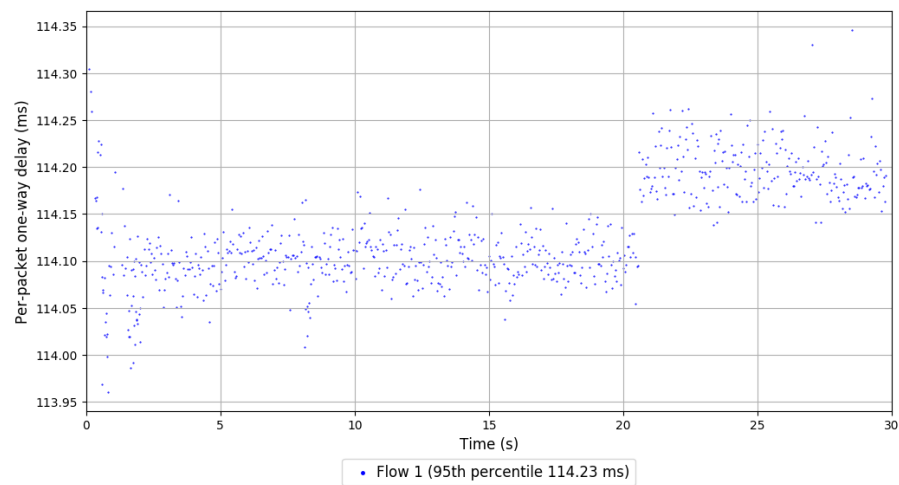
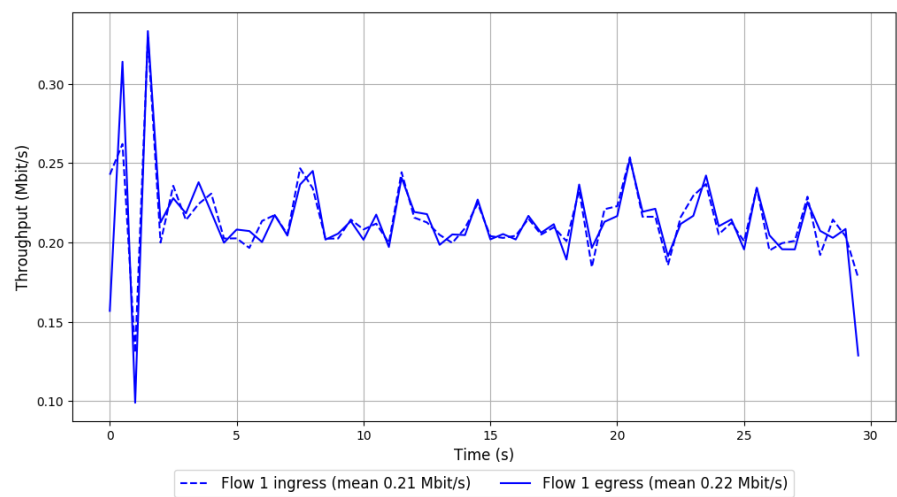
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.228 ms

Loss rate: 0.75%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-26 20:46:16

End at: 2018-03-26 20:46:46

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.020 ms

Loss rate: 0.77%

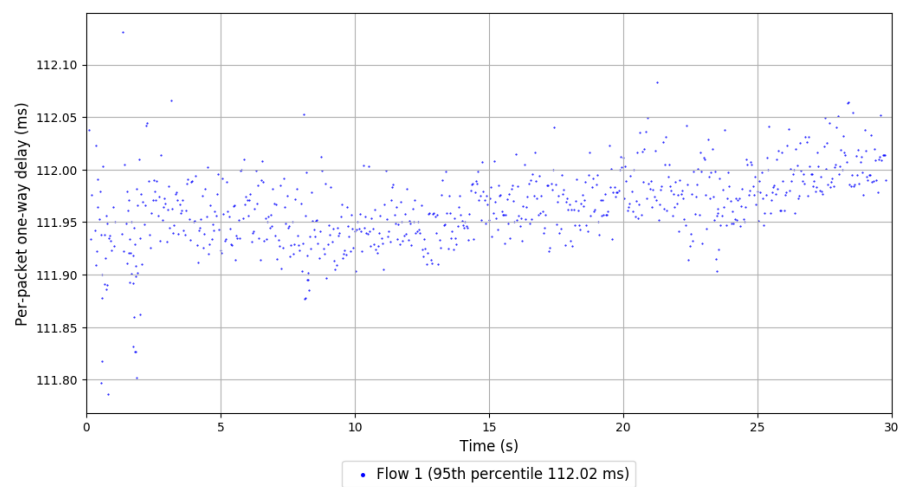
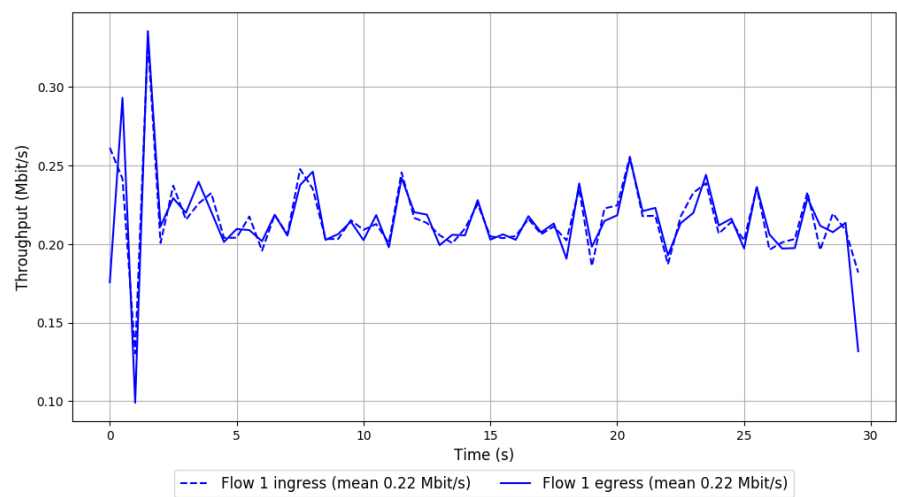
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.020 ms

Loss rate: 0.77%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-26 21:01:38

End at: 2018-03-26 21:02:08

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.326 ms

Loss rate: 0.76%

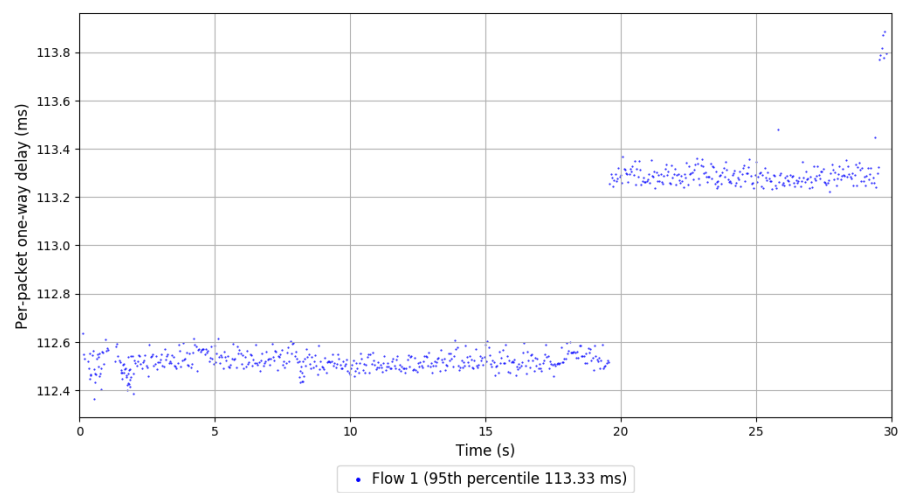
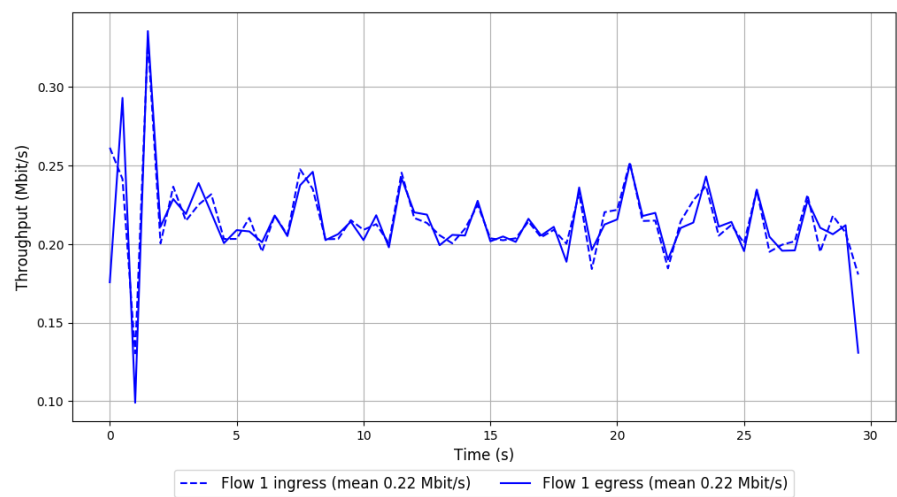
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.326 ms

Loss rate: 0.76%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-26 21:17:03

End at: 2018-03-26 21:17:33

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.593 ms

Loss rate: 0.77%

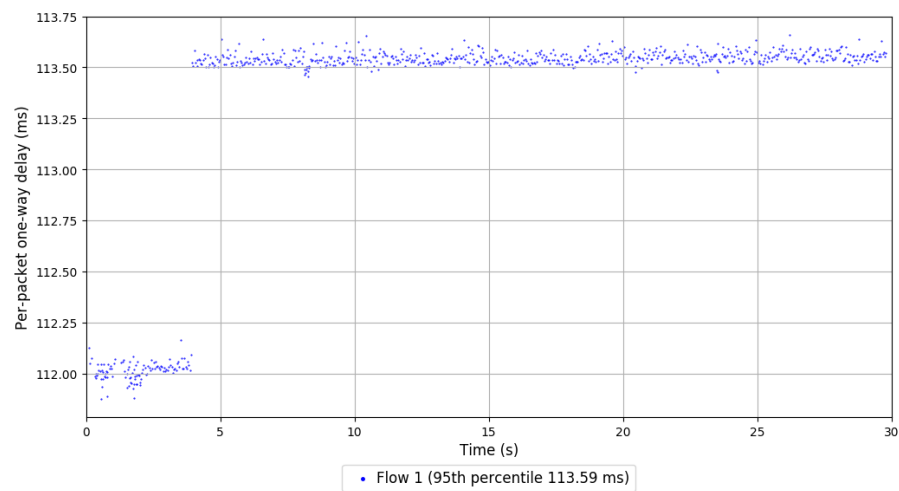
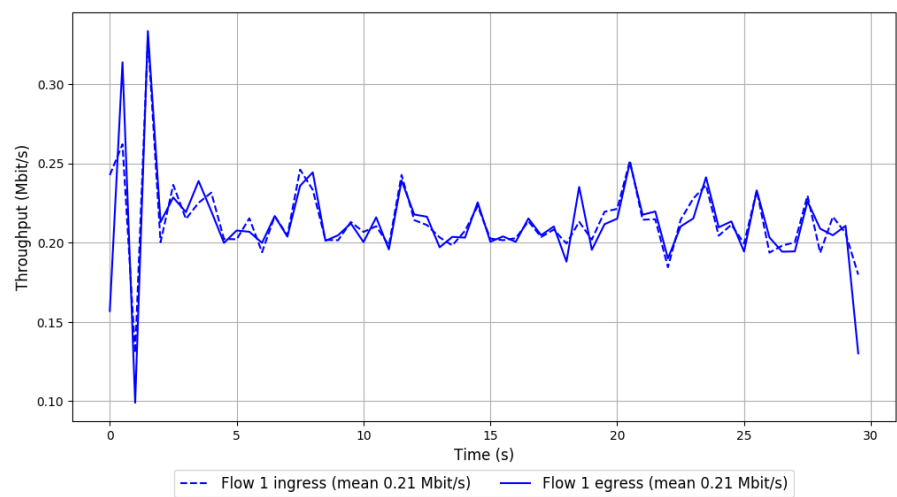
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.593 ms

Loss rate: 0.77%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-26 21:32:23

End at: 2018-03-26 21:32:53

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.406 ms

Loss rate: 0.64%

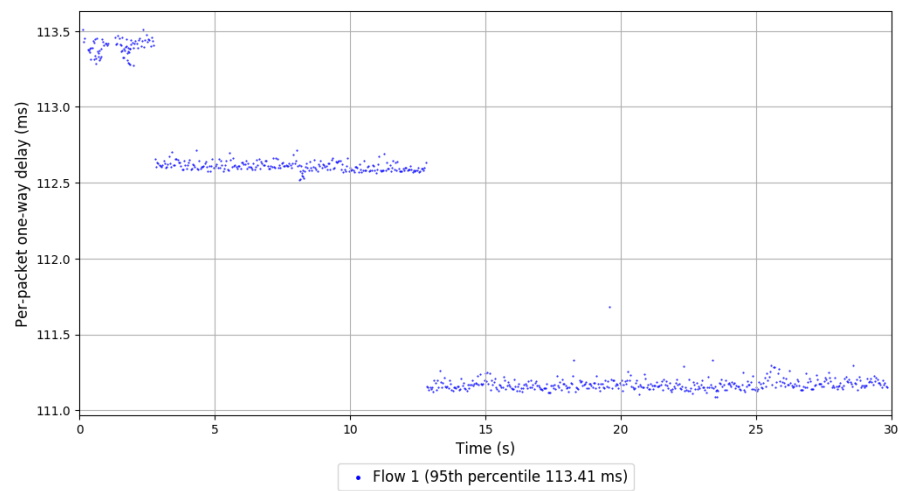
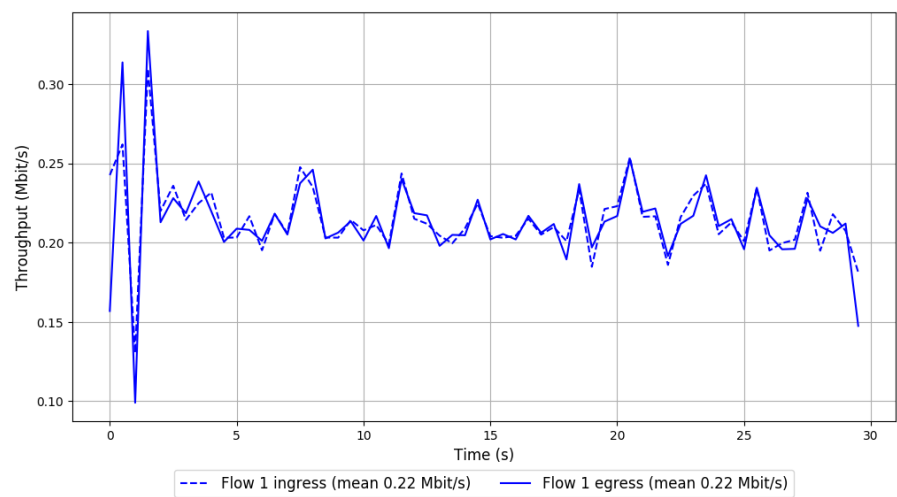
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.406 ms

Loss rate: 0.64%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-26 21:47:49

End at: 2018-03-26 21:48:19

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.221 ms

Loss rate: 0.76%

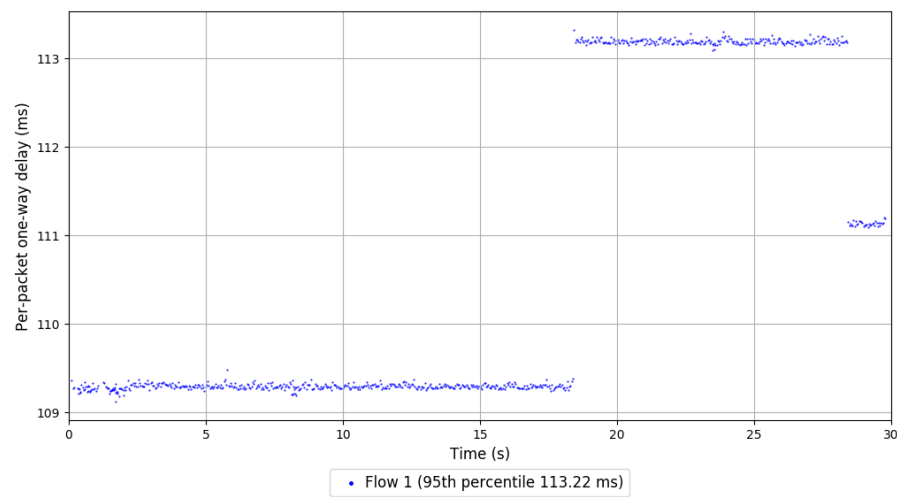
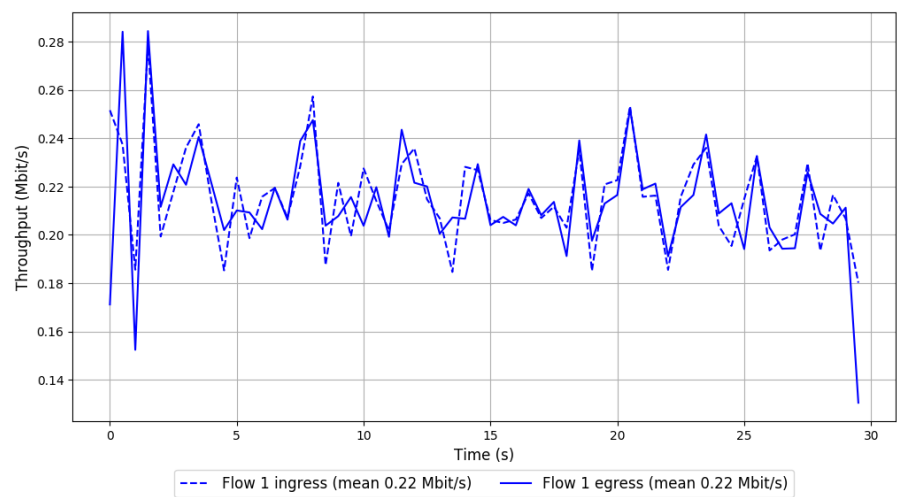
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.221 ms

Loss rate: 0.76%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-26 22:03:26

End at: 2018-03-26 22:03:56

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.354 ms

Loss rate: 0.64%

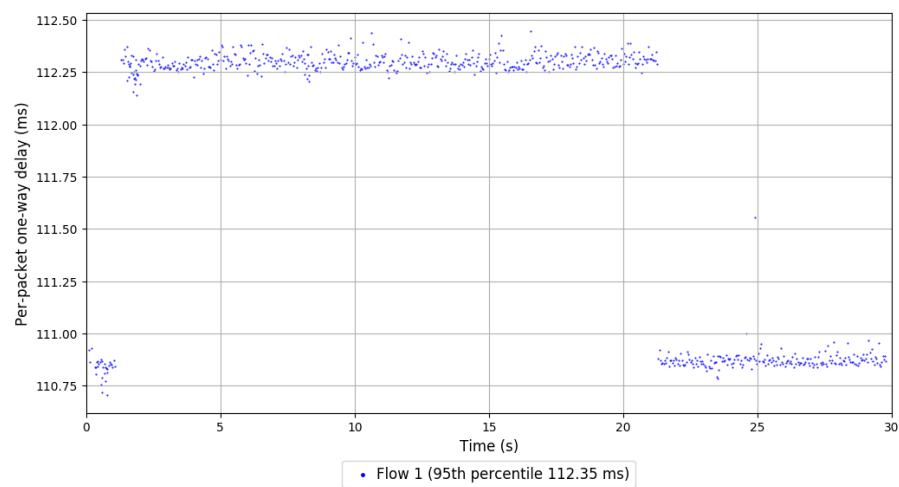
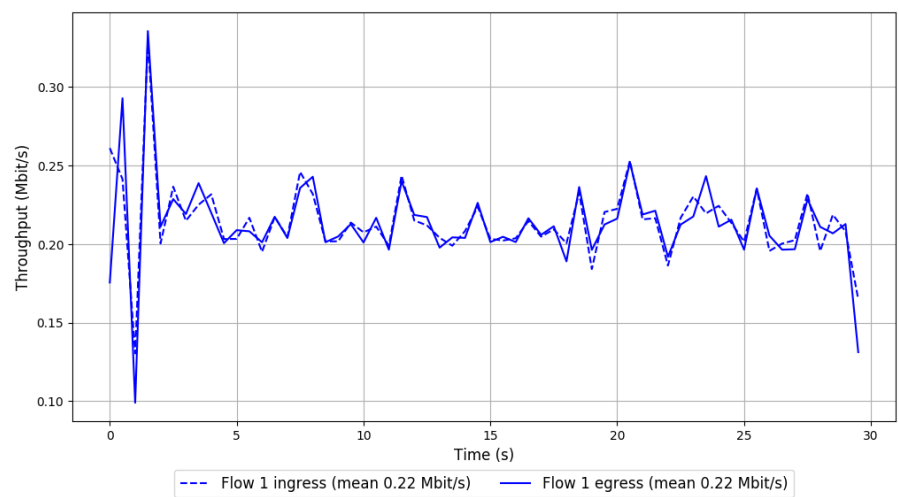
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.354 ms

Loss rate: 0.64%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-26 22:18:50

End at: 2018-03-26 22:19:20

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.866 ms

Loss rate: 0.77%

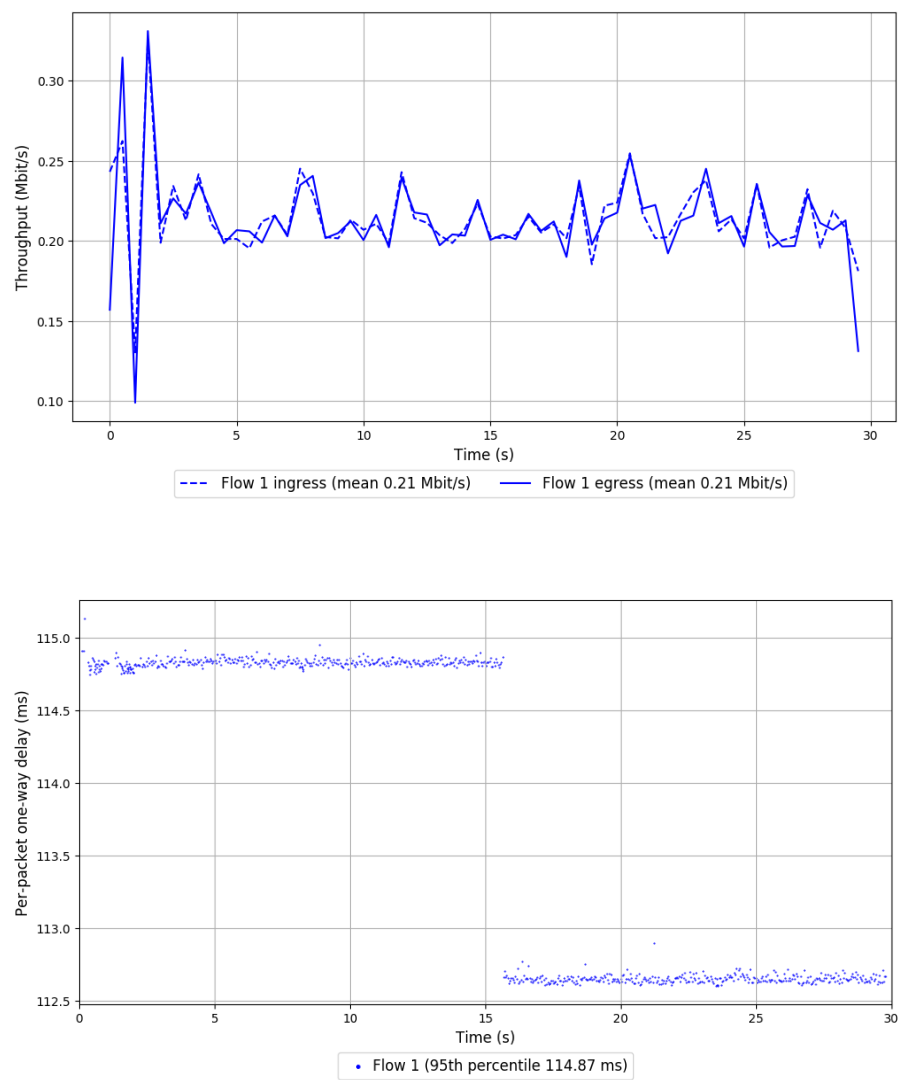
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 114.866 ms

Loss rate: 0.77%

Run 10: Report of SCRaM — Data Link

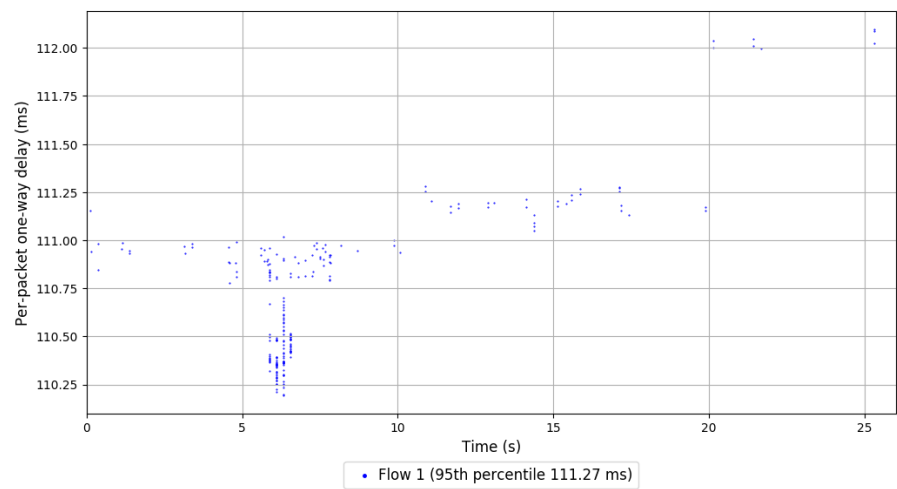
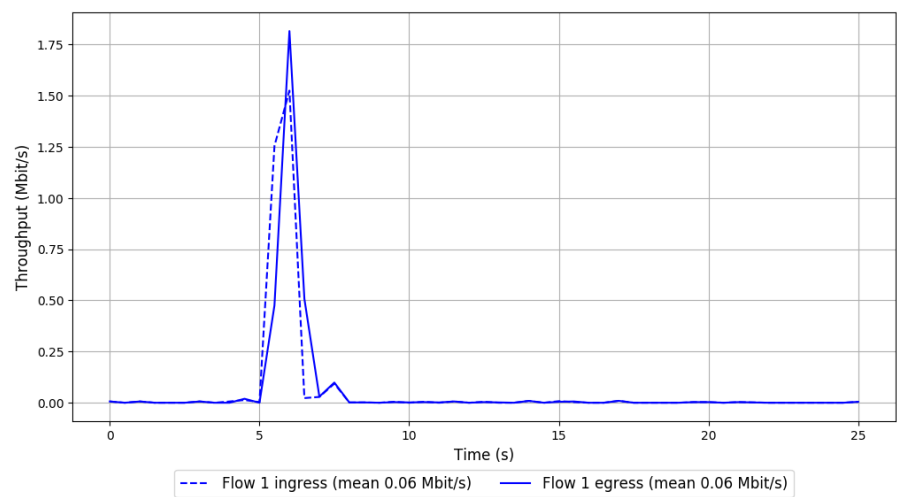


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-26 19:58:25
End at: 2018-03-26 19:58:55

# Below is generated by plot.py at 2018-03-27 01:24:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 111.266 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 111.266 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-26 20:13:47

End at: 2018-03-26 20:14:17

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.864 ms

Loss rate: 0.00%

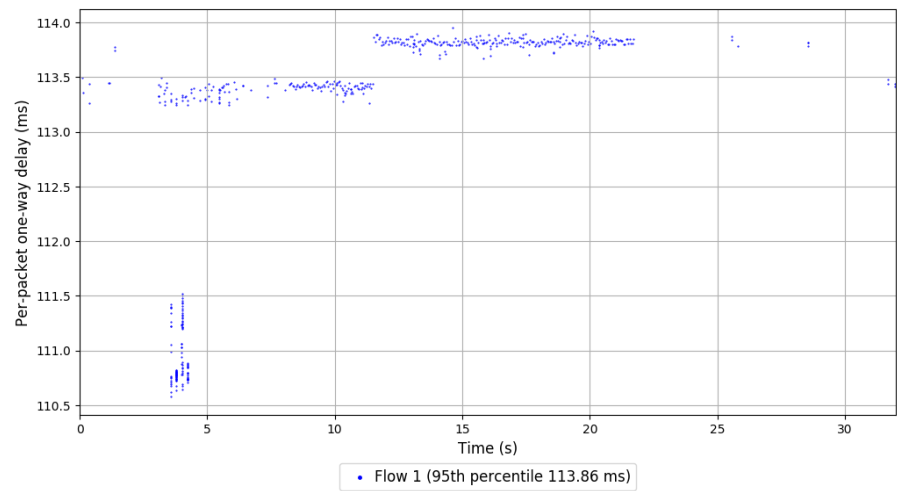
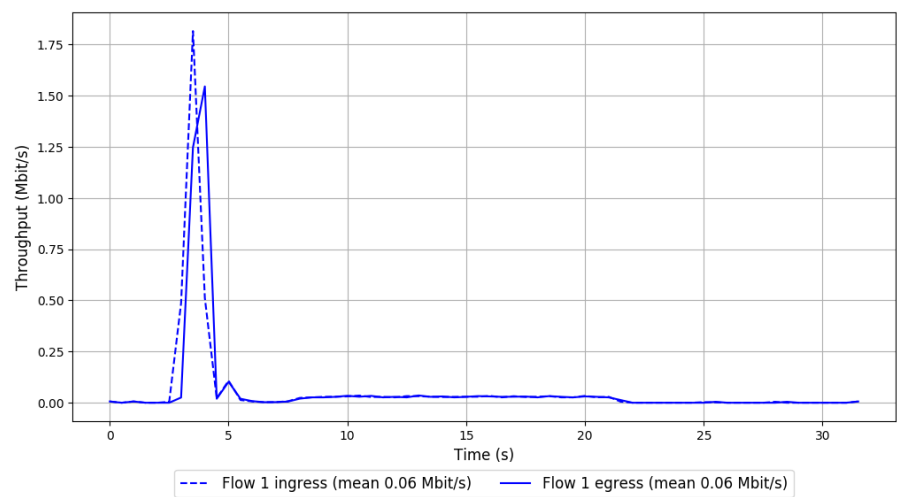
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.864 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-26 20:29:09

End at: 2018-03-26 20:29:39

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.871 ms

Loss rate: 0.00%

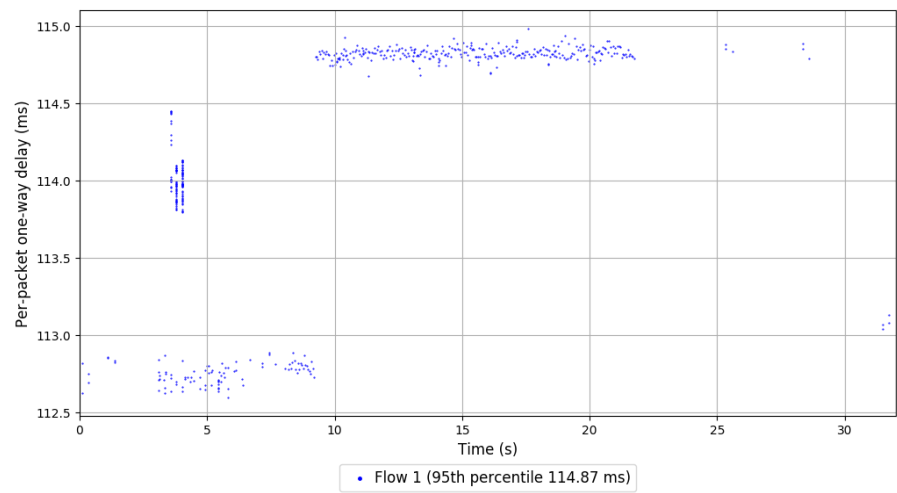
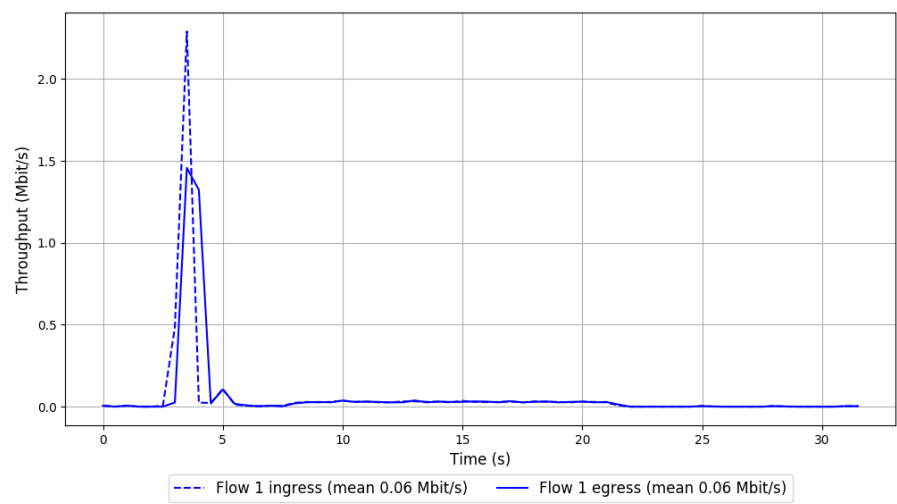
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.871 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-26 20:44:35

End at: 2018-03-26 20:45:05

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 115.047 ms

Loss rate: 0.00%

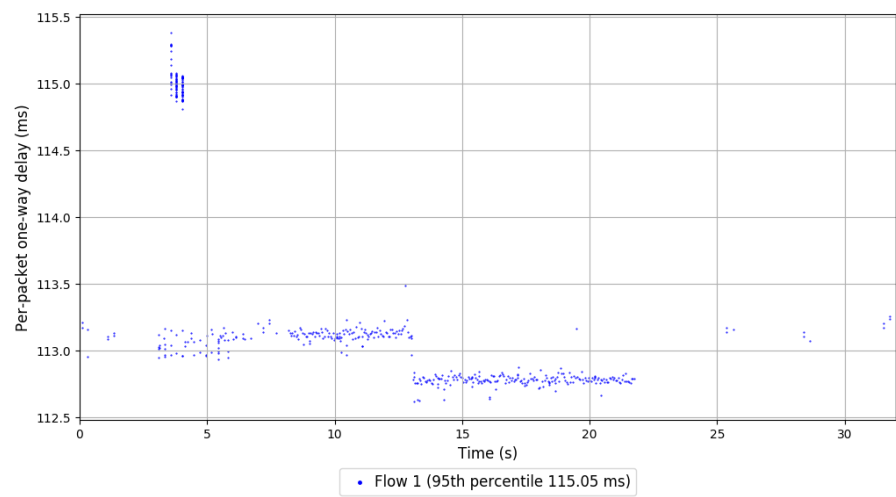
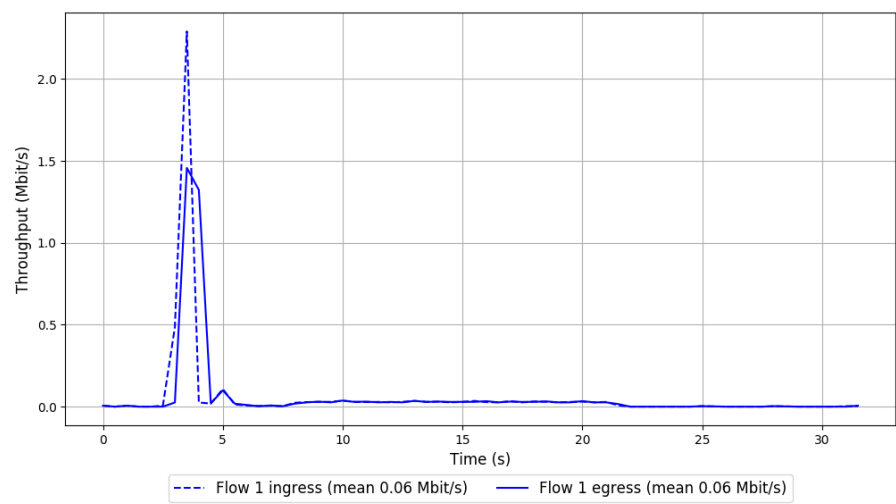
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 115.047 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-26 21:00:06

End at: 2018-03-26 21:00:36

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.834 ms

Loss rate: 0.00%

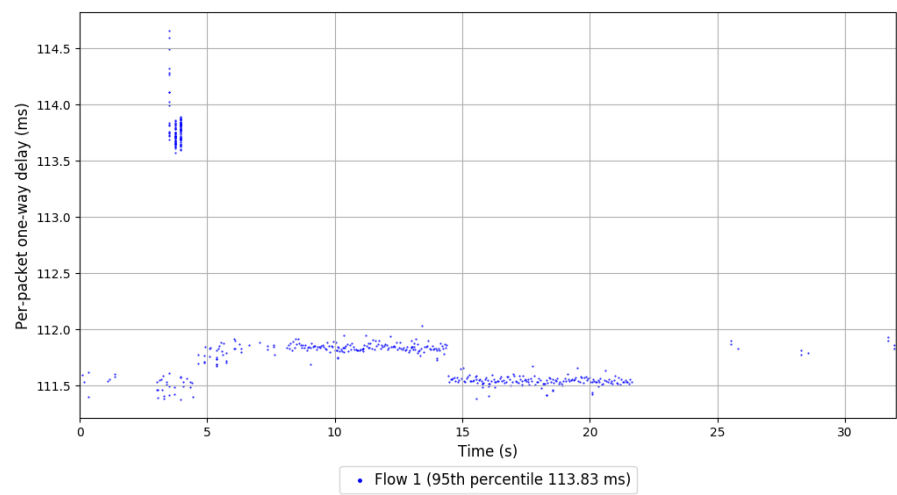
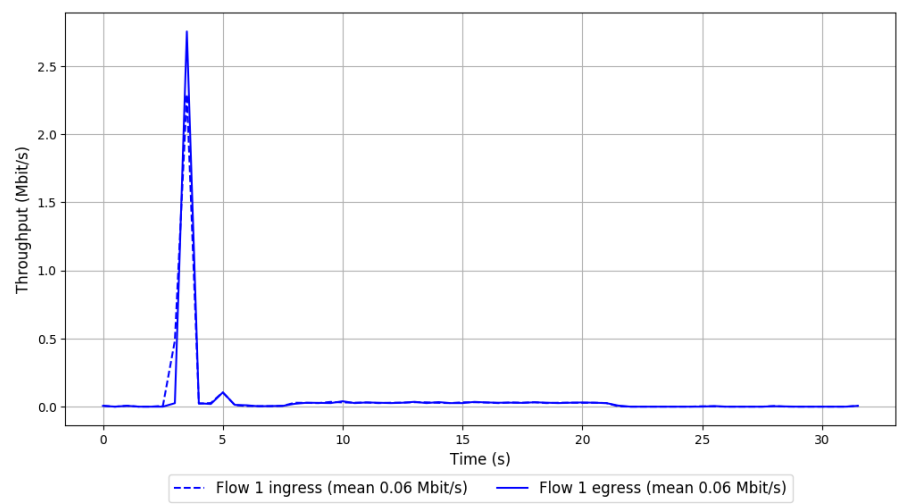
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.834 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-26 21:15:19

End at: 2018-03-26 21:15:49

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.283 ms

Loss rate: 0.00%

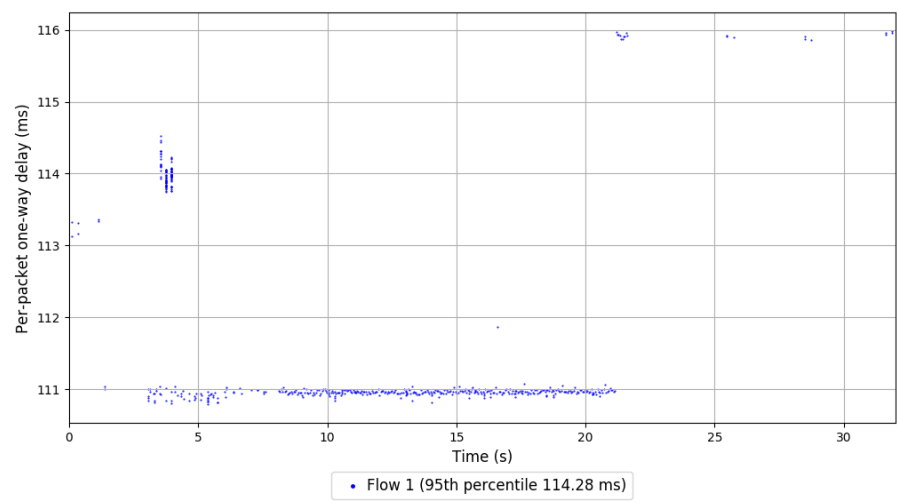
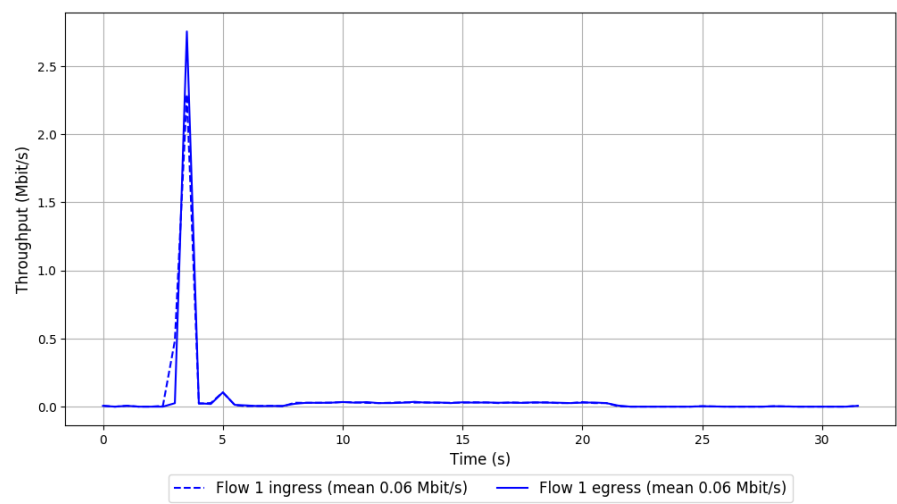
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.283 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-26 21:30:40

End at: 2018-03-26 21:31:10

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.664 ms

Loss rate: 0.00%

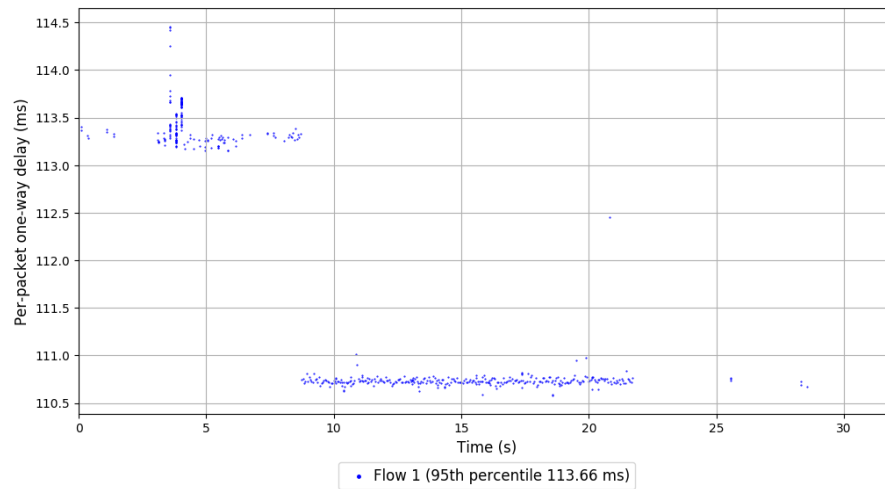
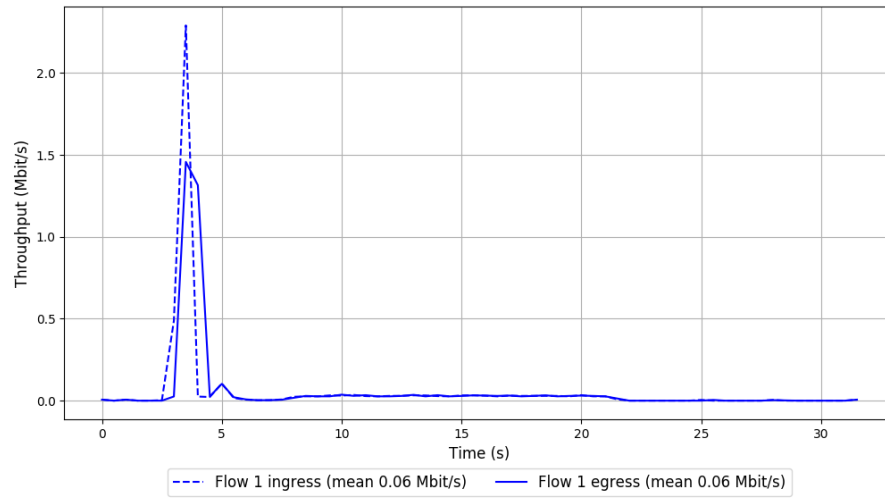
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.664 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-26 21:46:02

End at: 2018-03-26 21:46:33

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.189 ms

Loss rate: 0.00%

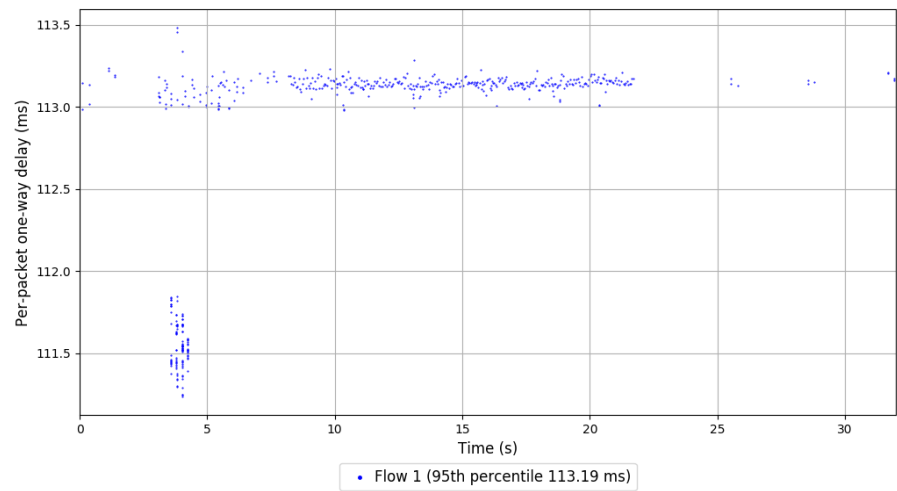
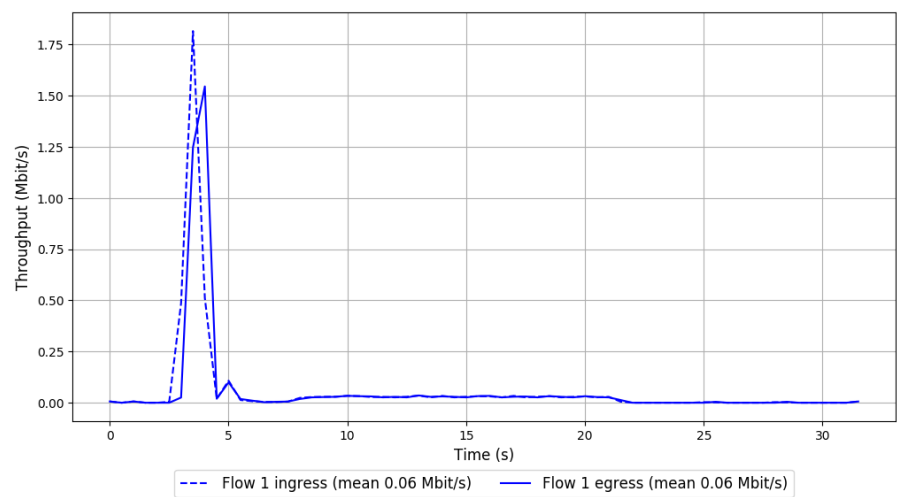
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 113.189 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-26 22:01:42

End at: 2018-03-26 22:02:12

Below is generated by plot.py at 2018-03-27 01:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 111.749 ms

Loss rate: 0.00%

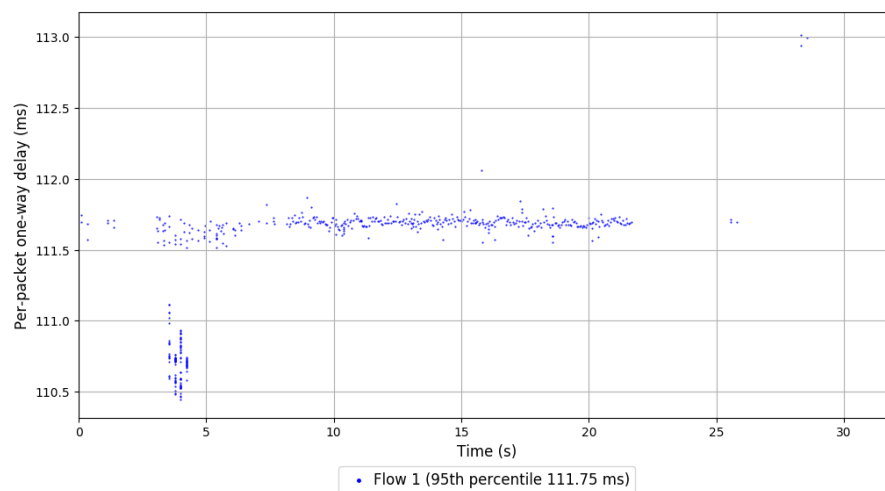
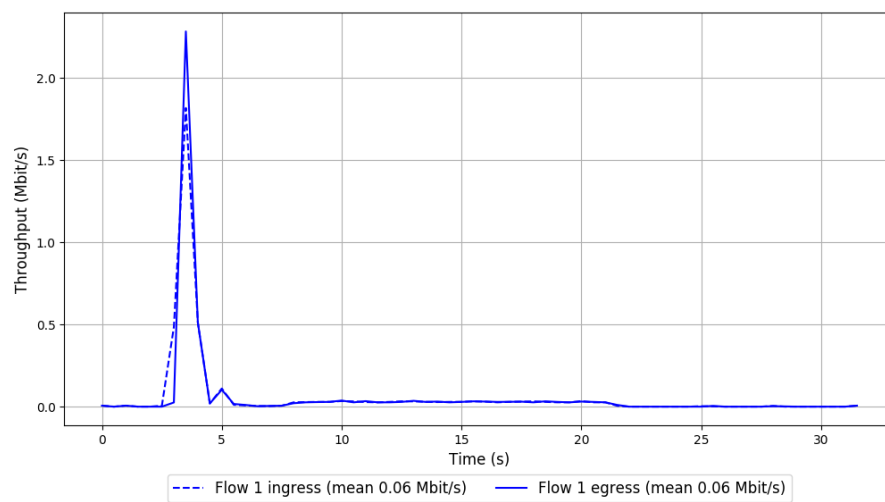
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 111.749 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-26 22:17:06

End at: 2018-03-26 22:17:36

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.346 ms

Loss rate: 0.00%

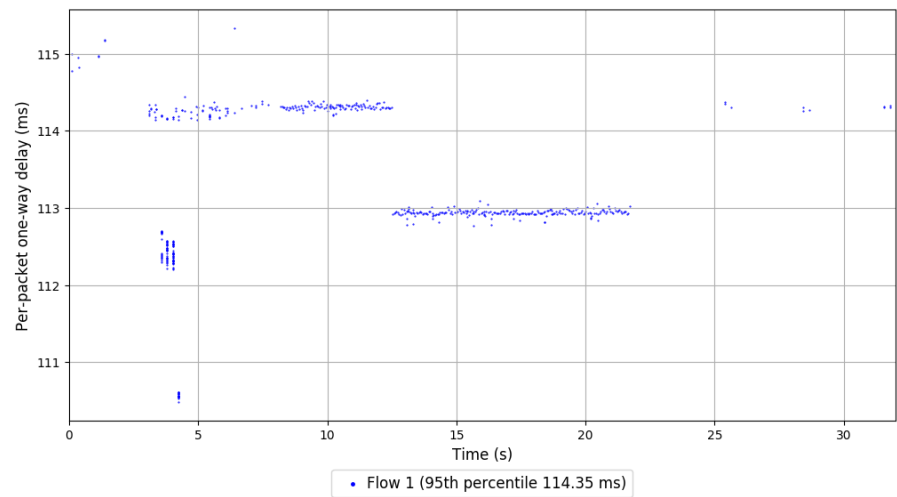
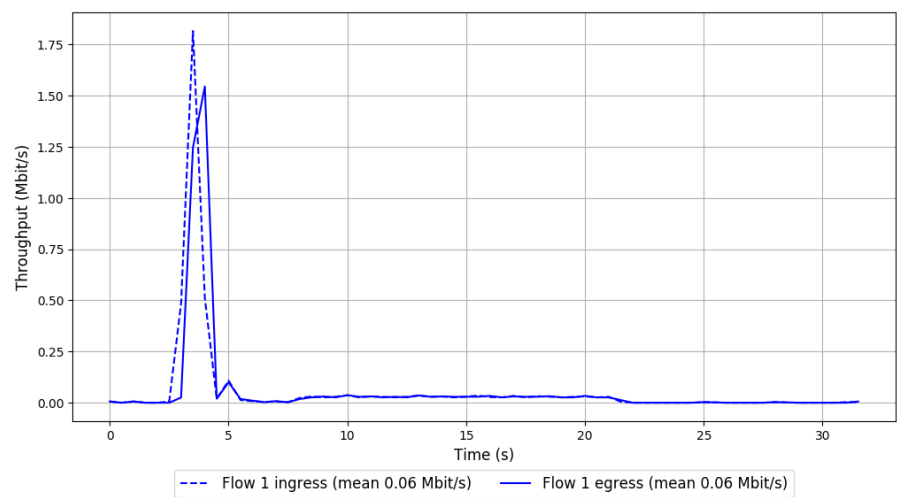
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 114.346 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-26 19:46:58

End at: 2018-03-26 19:47:28

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 112.118 ms

Loss rate: 0.00%

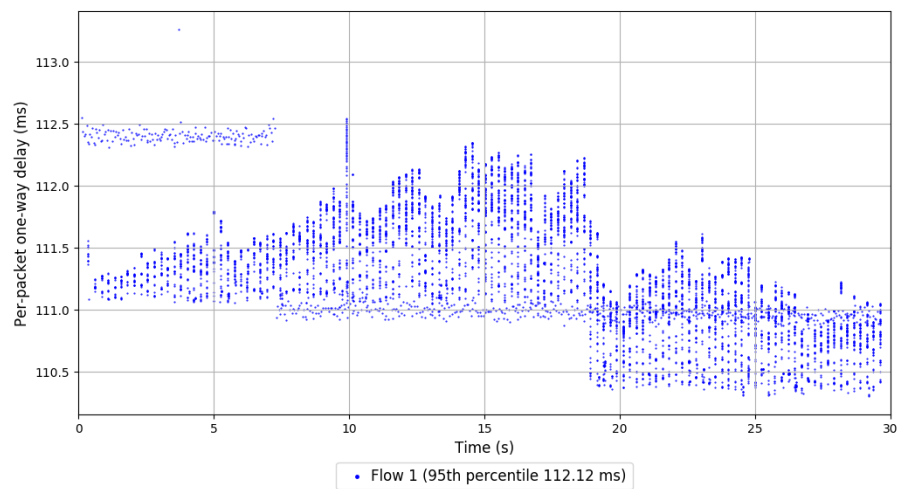
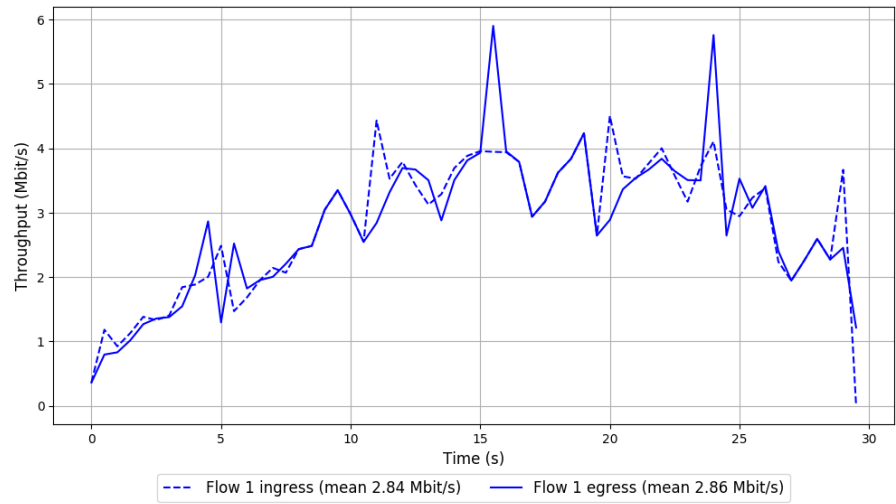
-- Flow 1:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 112.118 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-26 20:02:30

End at: 2018-03-26 20:03:00

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 113.883 ms

Loss rate: 0.81%

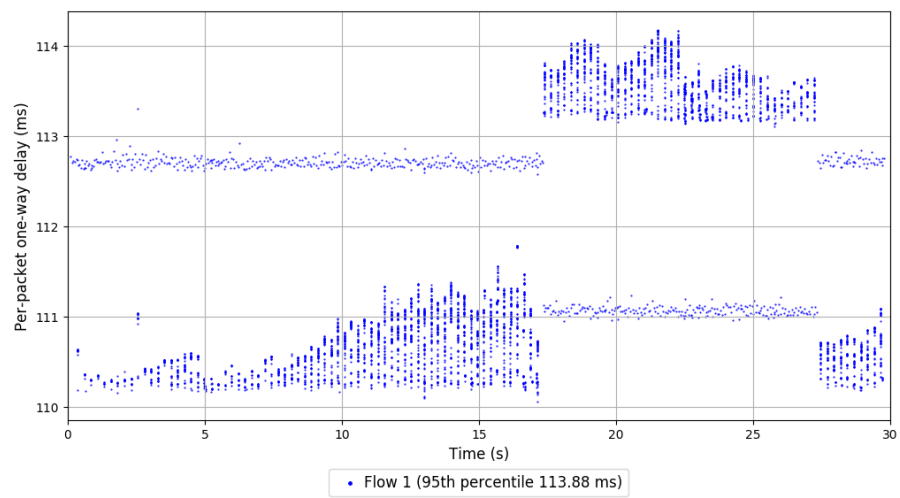
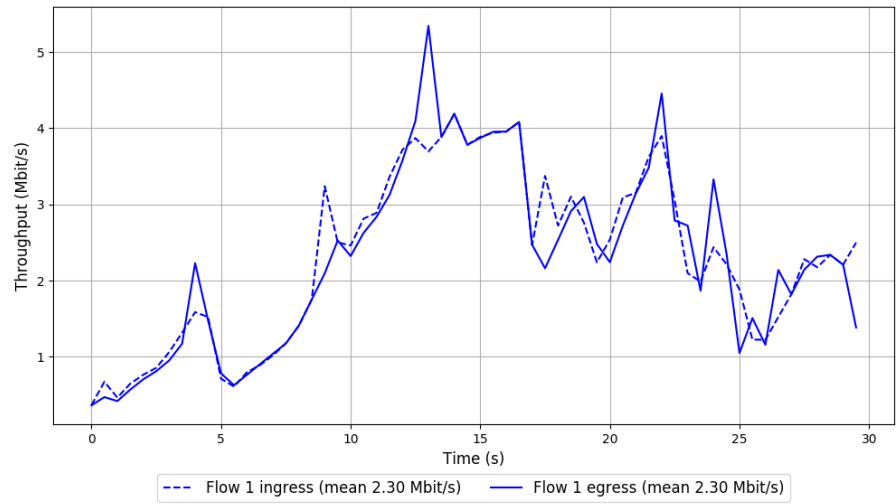
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 113.883 ms

Loss rate: 0.81%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-26 20:17:50

End at: 2018-03-26 20:18:20

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 114.494 ms

Loss rate: 0.86%

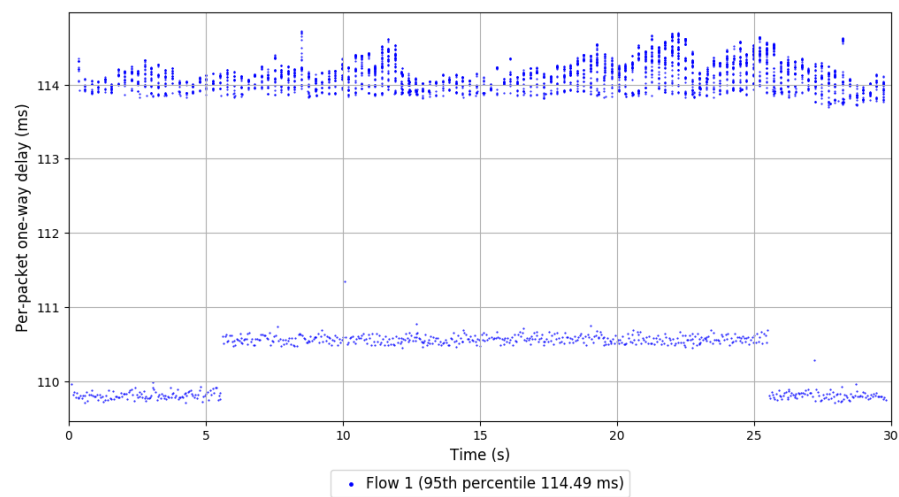
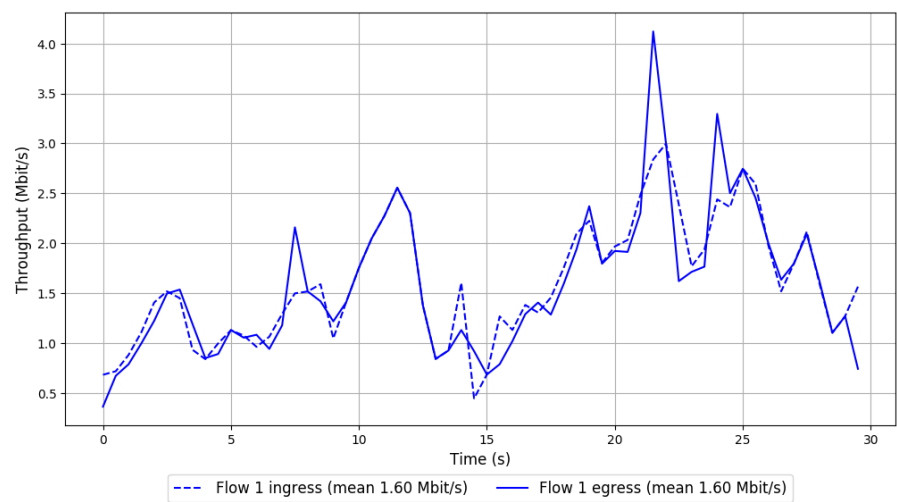
-- Flow 1:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 114.494 ms

Loss rate: 0.86%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-26 20:33:12

End at: 2018-03-26 20:33:42

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 114.854 ms

Loss rate: 1.07%

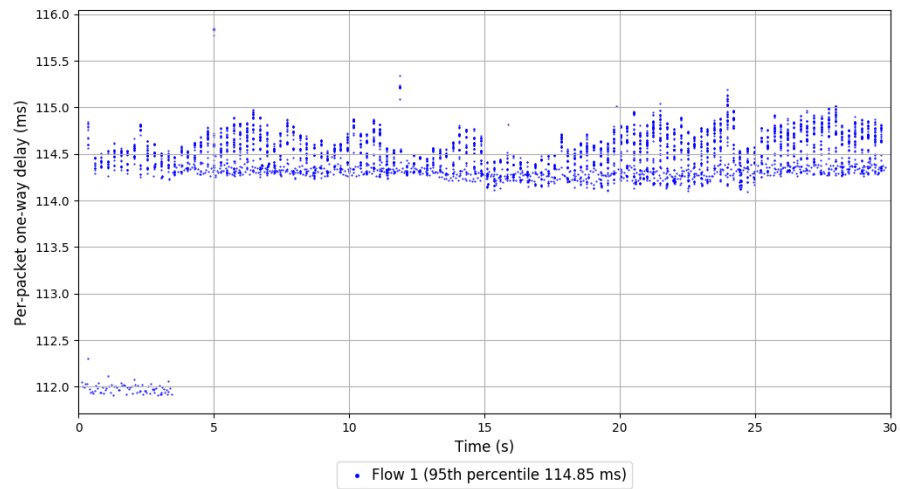
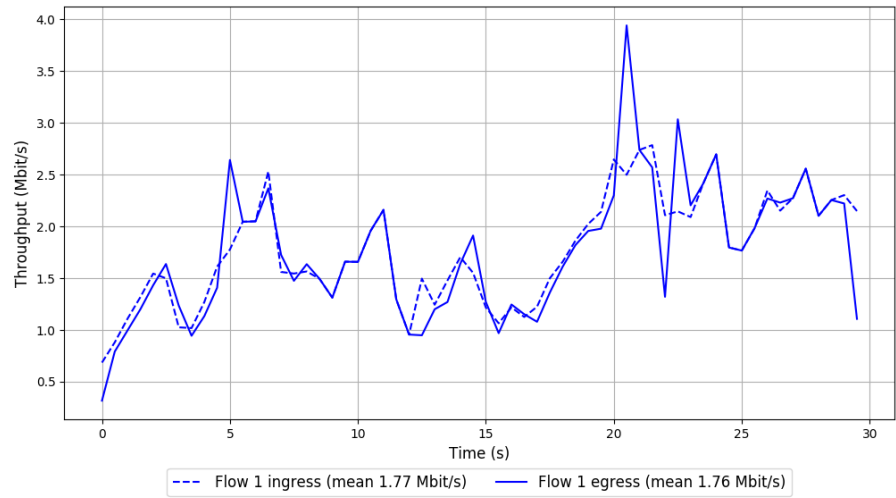
-- Flow 1:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 114.854 ms

Loss rate: 1.07%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-26 20:48:35

End at: 2018-03-26 20:49:05

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 115.638 ms

Loss rate: 0.78%

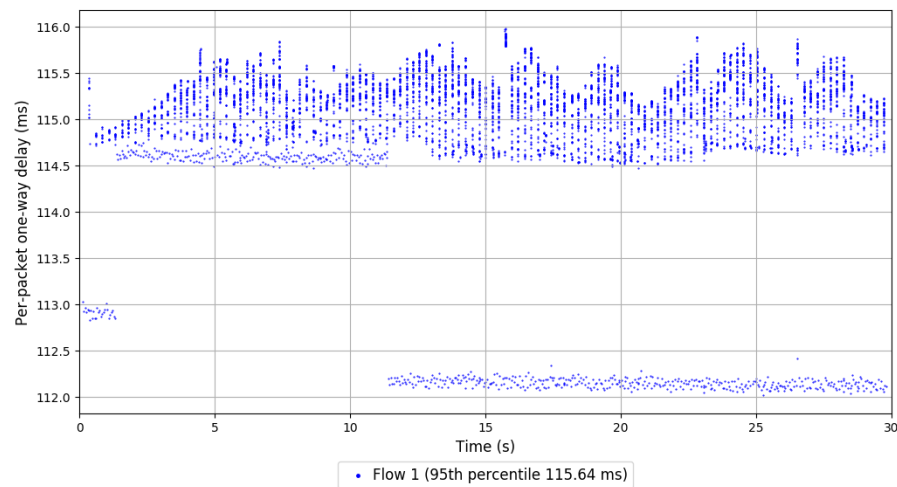
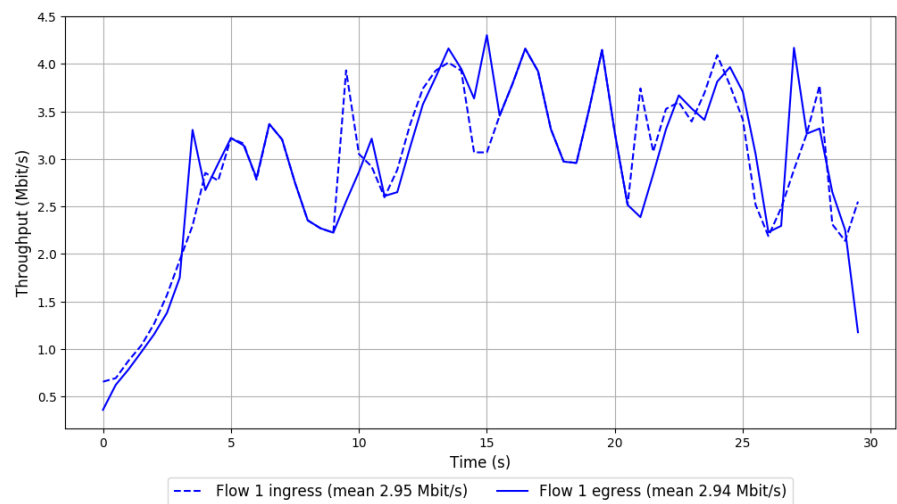
-- Flow 1:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 115.638 ms

Loss rate: 0.78%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-26 21:03:56

End at: 2018-03-26 21:04:26

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 114.770 ms

Loss rate: 0.30%

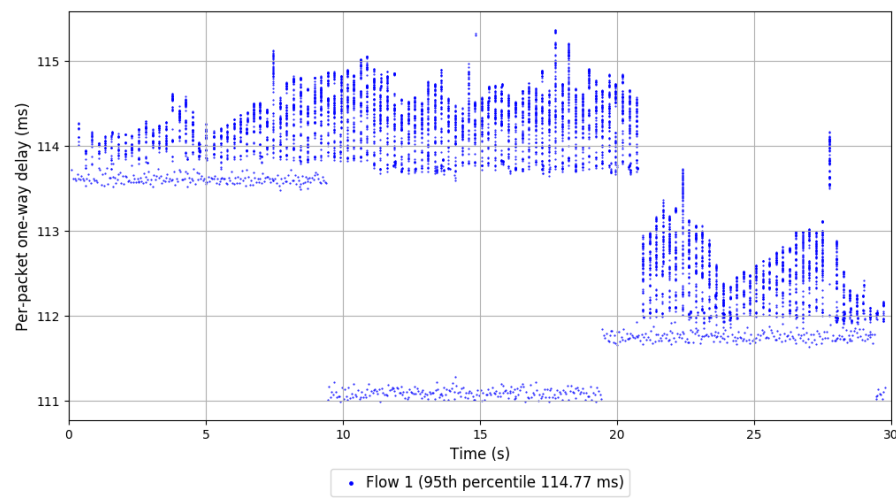
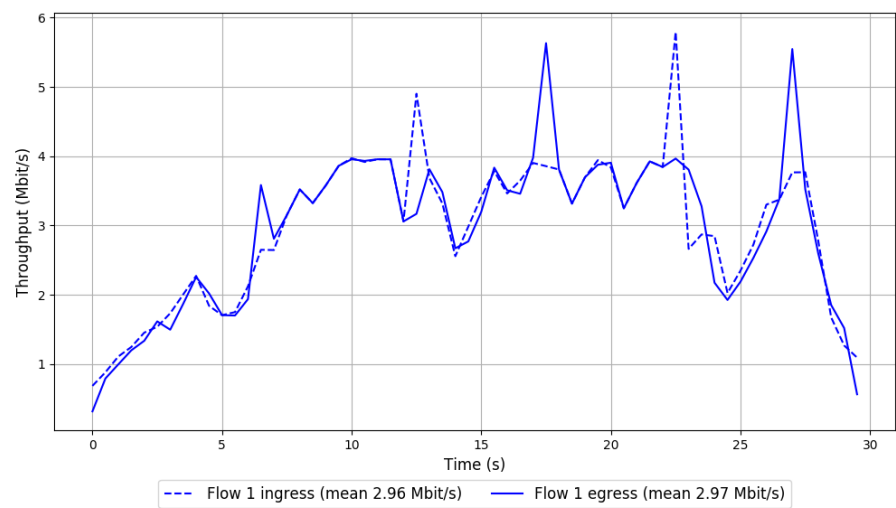
-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 114.770 ms

Loss rate: 0.30%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-26 21:19:21

End at: 2018-03-26 21:19:51

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 114.711 ms

Loss rate: 0.24%

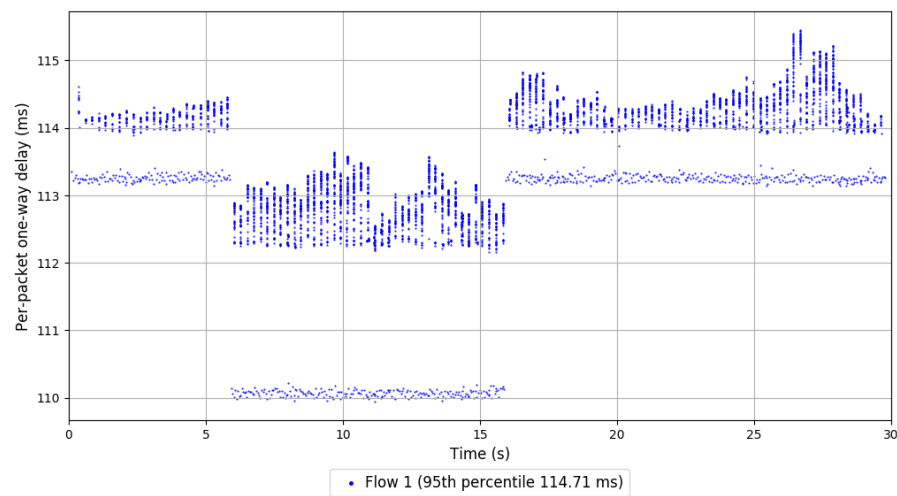
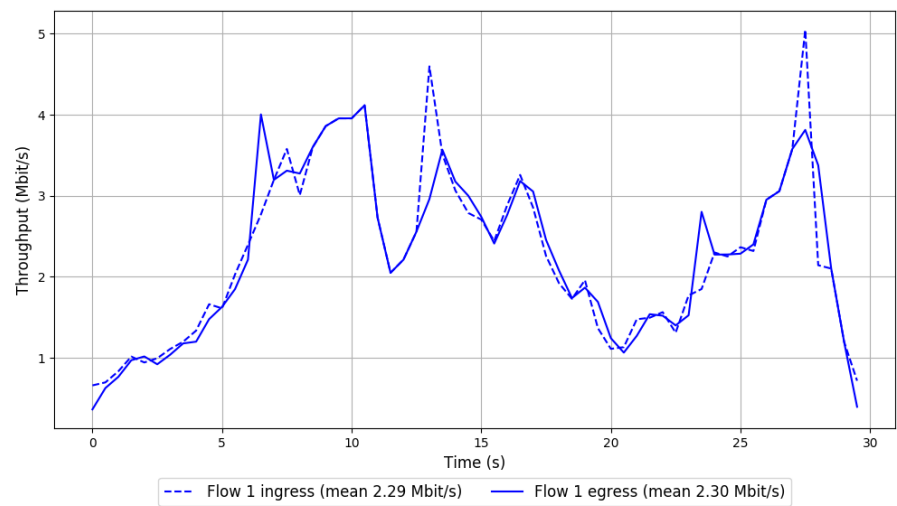
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 114.711 ms

Loss rate: 0.24%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-26 21:34:41

End at: 2018-03-26 21:35:11

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 114.162 ms

Loss rate: 0.91%

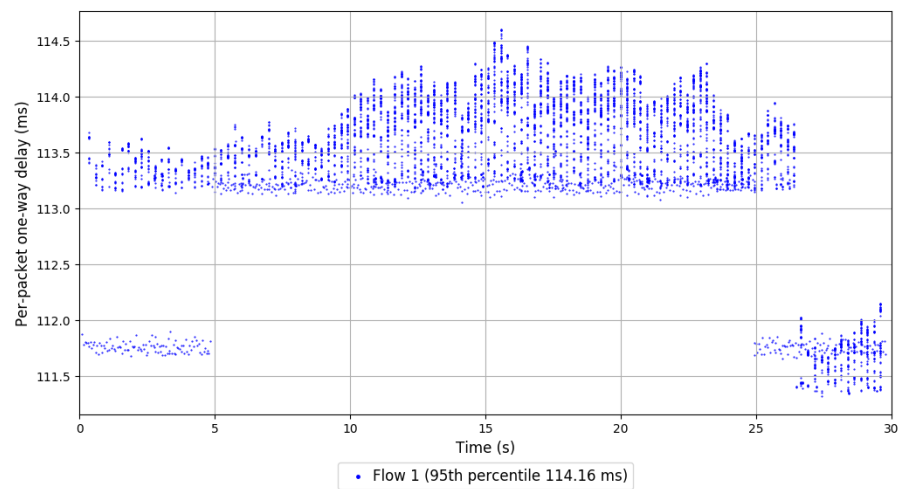
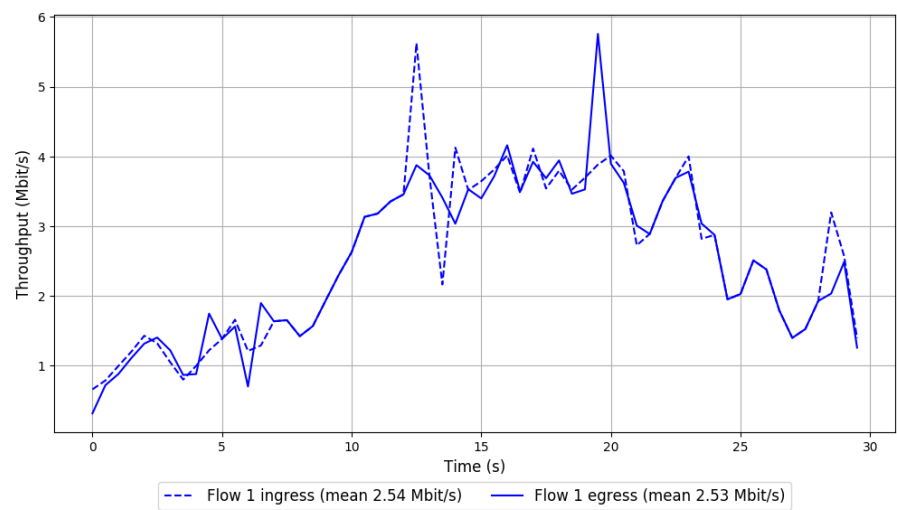
-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 114.162 ms

Loss rate: 0.91%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-26 21:50:06

End at: 2018-03-26 21:50:36

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 113.895 ms

Loss rate: 0.95%

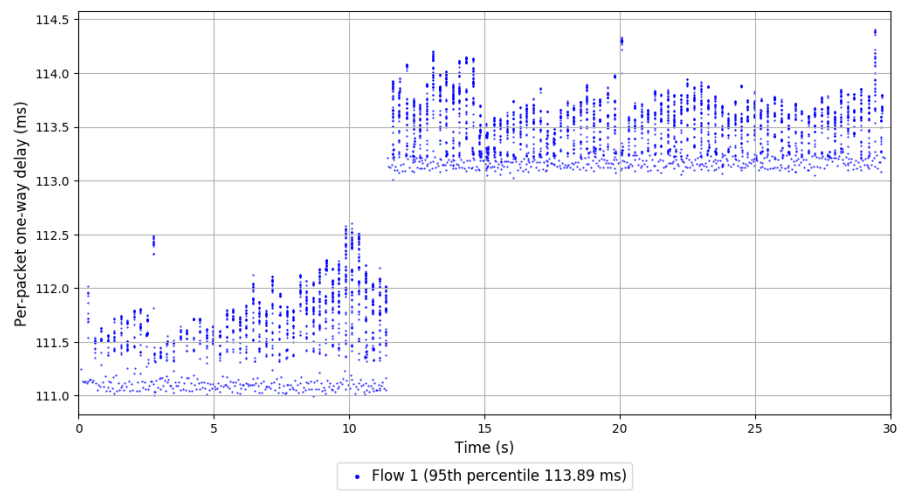
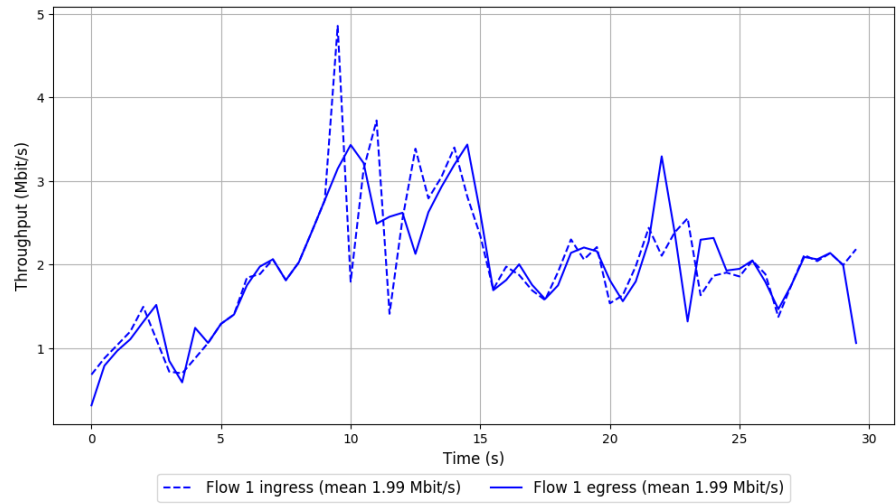
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 113.895 ms

Loss rate: 0.95%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-26 22:05:45

End at: 2018-03-26 22:06:15

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 113.071 ms

Loss rate: 0.64%

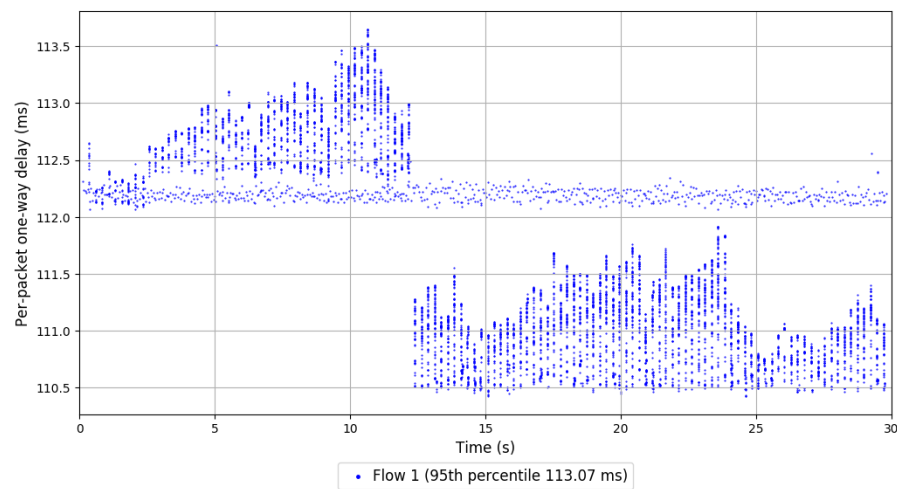
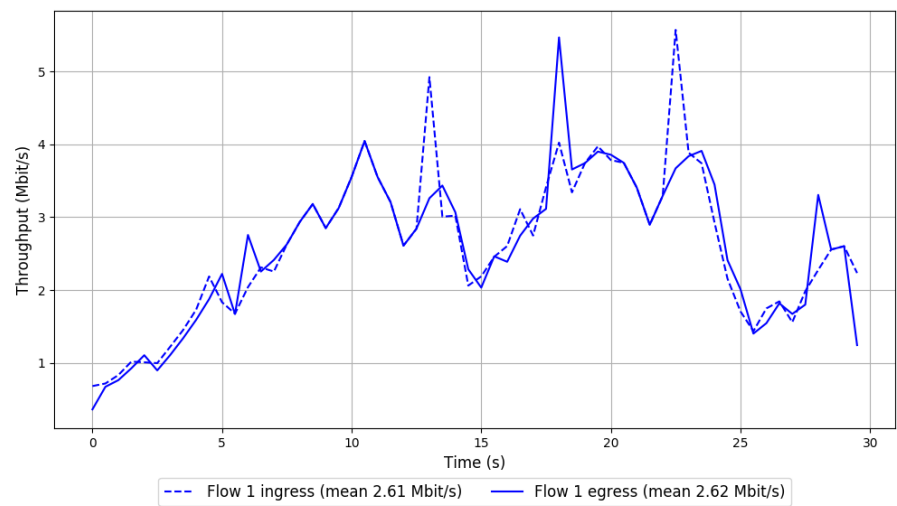
-- Flow 1:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 113.071 ms

Loss rate: 0.64%

Run 10: Report of Sprout — Data Link

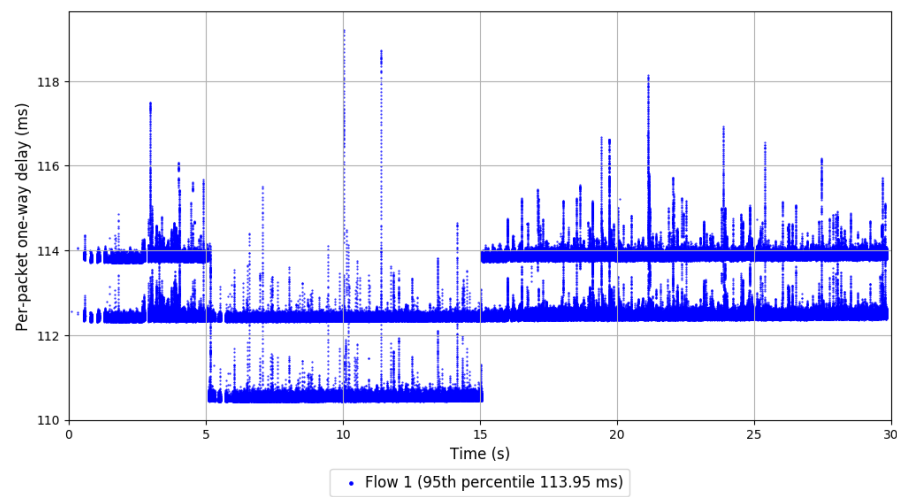
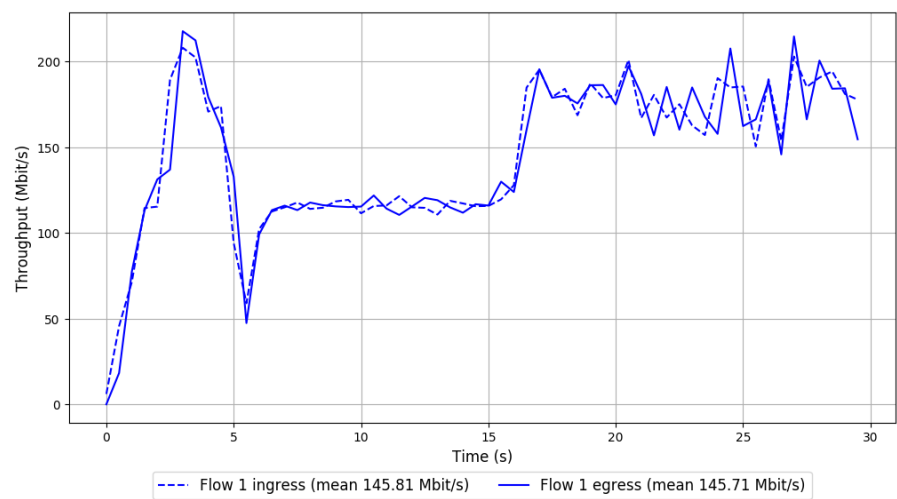


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-26 19:53:42
End at: 2018-03-26 19:54:12

# Below is generated by plot.py at 2018-03-27 01:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.71 Mbit/s
95th percentile per-packet one-way delay: 113.949 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 145.71 Mbit/s
95th percentile per-packet one-way delay: 113.949 ms
Loss rate: 0.82%
```

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

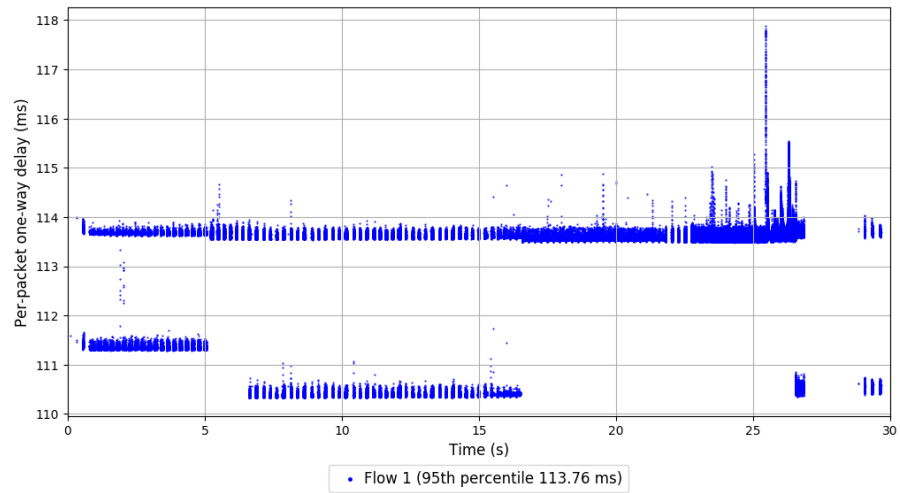
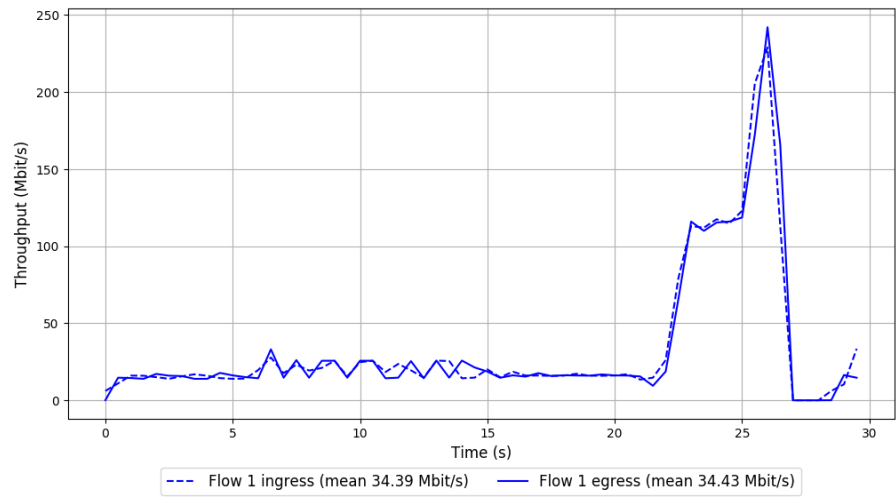


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-26 20:09:21
End at: 2018-03-26 20:09:51

# Below is generated by plot.py at 2018-03-27 01:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.43 Mbit/s
95th percentile per-packet one-way delay: 113.760 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 34.43 Mbit/s
95th percentile per-packet one-way delay: 113.760 ms
Loss rate: 0.92%
```

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

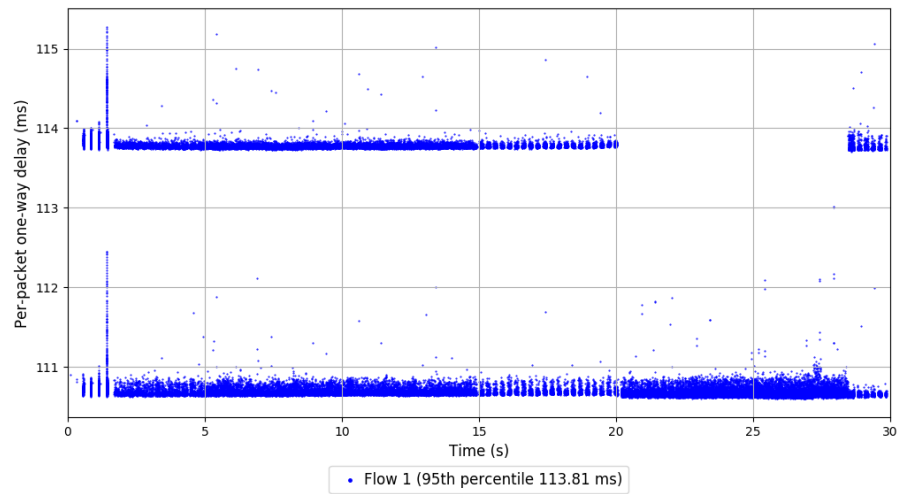
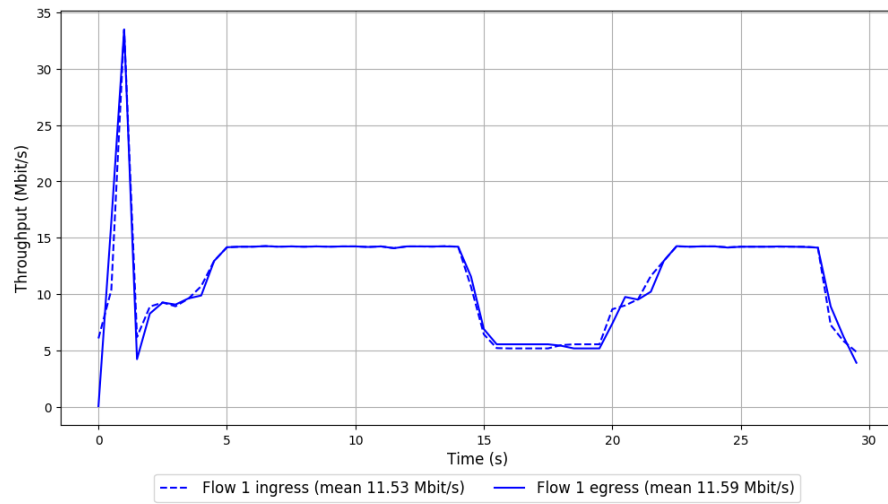


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-03-26 20:24:37
End at: 2018-03-26 20:25:07

# Below is generated by plot.py at 2018-03-27 01:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 113.811 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 113.811 ms
Loss rate: 0.30%
```

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

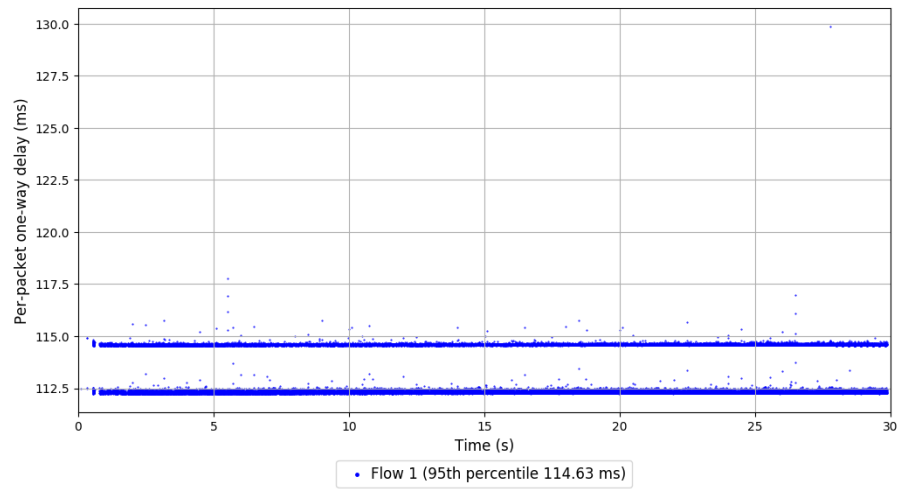
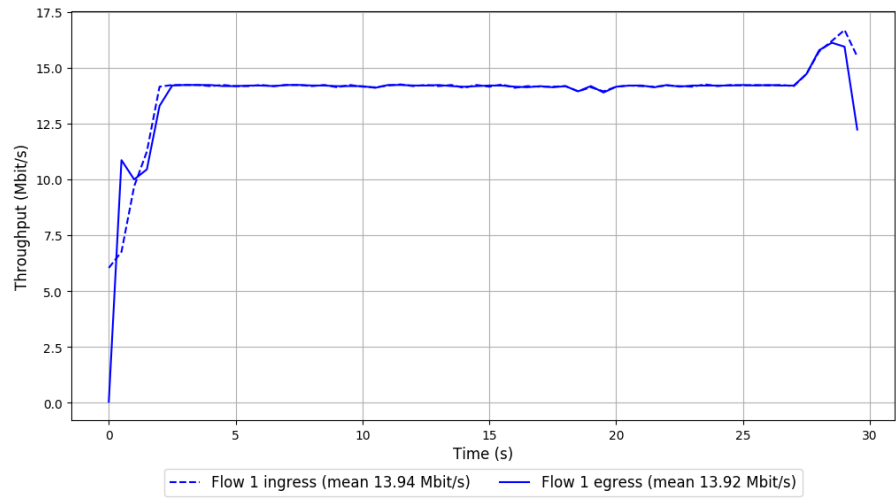


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-03-26 20:40:08
End at: 2018-03-26 20:40:38

# Below is generated by plot.py at 2018-03-27 01:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.92 Mbit/s
95th percentile per-packet one-way delay: 114.627 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 13.92 Mbit/s
95th percentile per-packet one-way delay: 114.627 ms
Loss rate: 0.87%
```

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

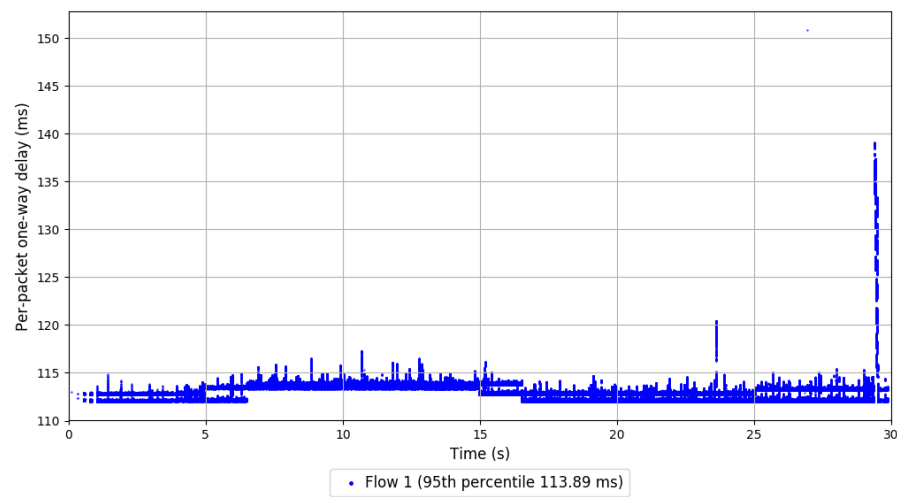
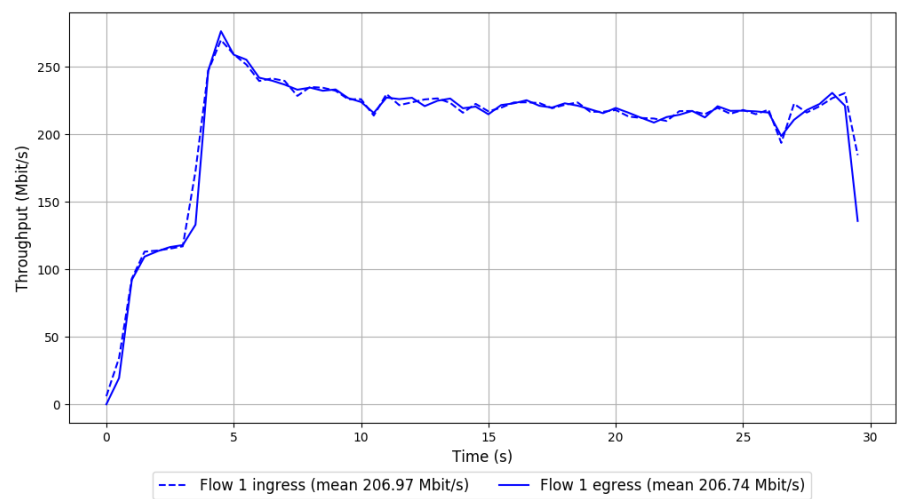


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-03-26 20:55:21
End at: 2018-03-26 20:55:51

# Below is generated by plot.py at 2018-03-27 01:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.74 Mbit/s
95th percentile per-packet one-way delay: 113.886 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 206.74 Mbit/s
95th percentile per-packet one-way delay: 113.886 ms
Loss rate: 0.85%
```

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-26 21:10:44

End at: 2018-03-26 21:11:14

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.59 Mbit/s

95th percentile per-packet one-way delay: 113.890 ms

Loss rate: 0.82%

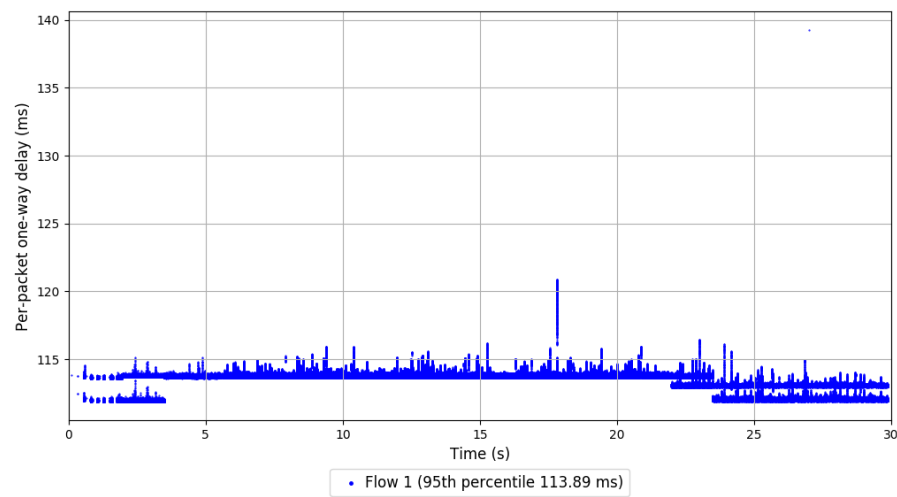
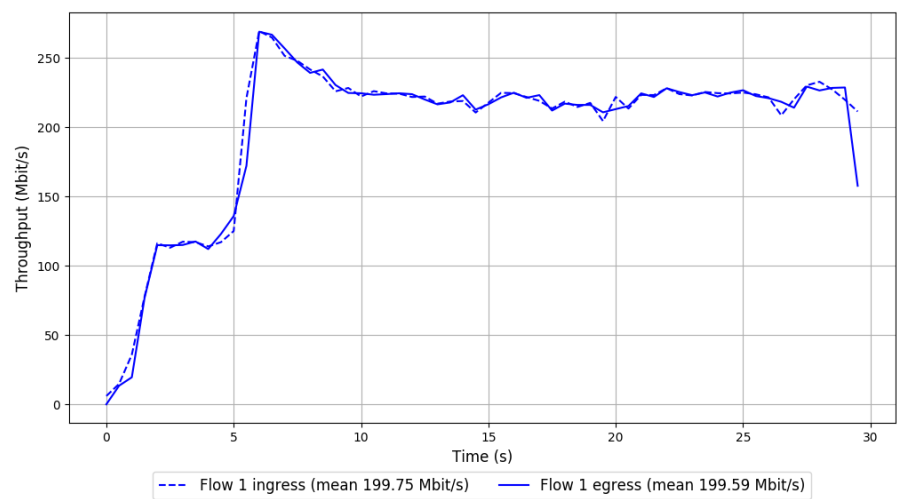
-- Flow 1:

Average throughput: 199.59 Mbit/s

95th percentile per-packet one-way delay: 113.890 ms

Loss rate: 0.82%

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

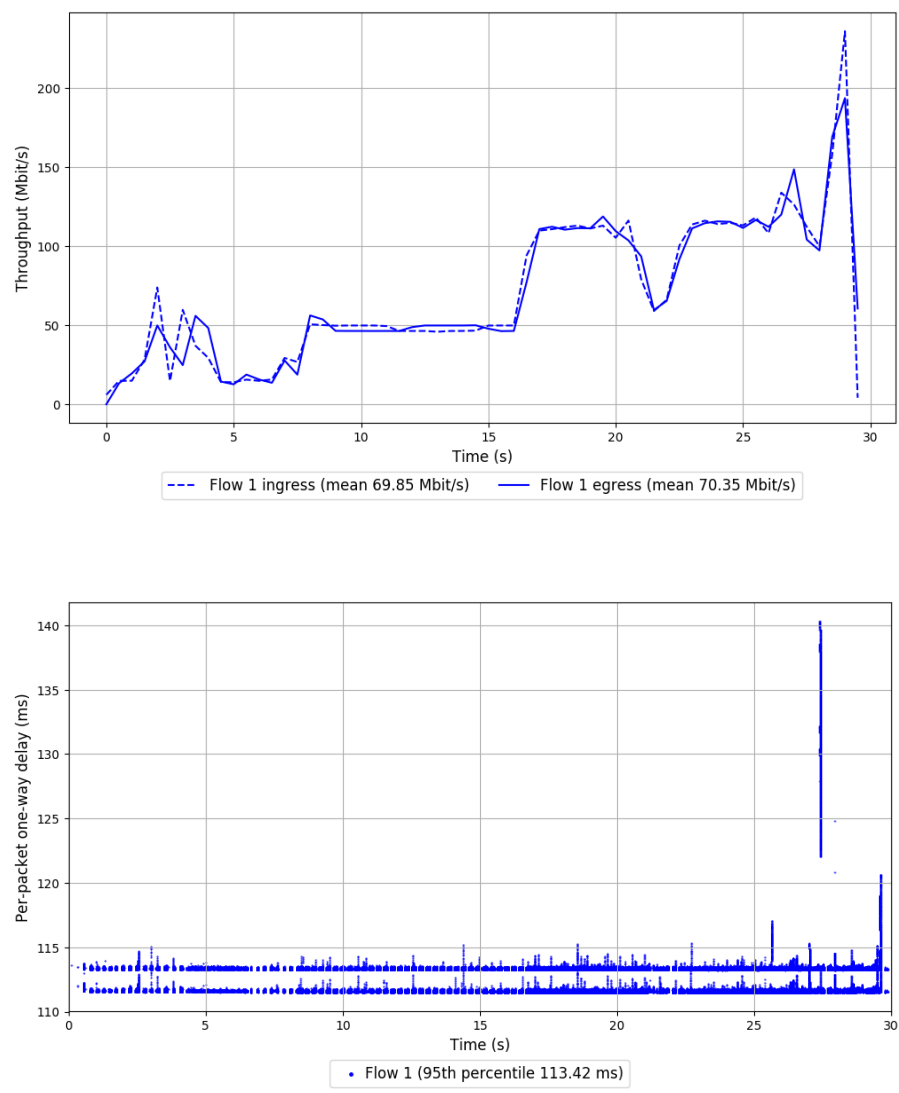


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-03-26 21:26:06
End at: 2018-03-26 21:26:36

# Below is generated by plot.py at 2018-03-27 01:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 113.417 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 113.417 ms
Loss rate: 0.03%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-26 21:41:28

End at: 2018-03-26 21:41:58

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.82 Mbit/s

95th percentile per-packet one-way delay: 115.042 ms

Loss rate: 1.39%

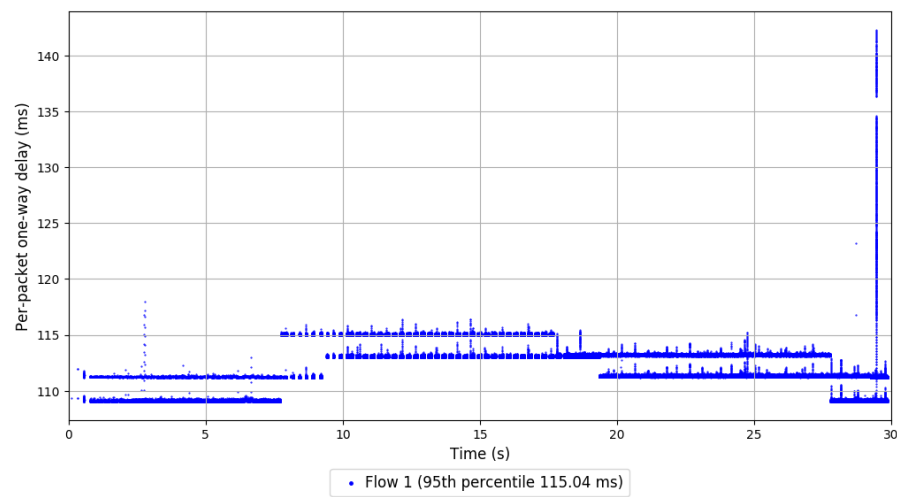
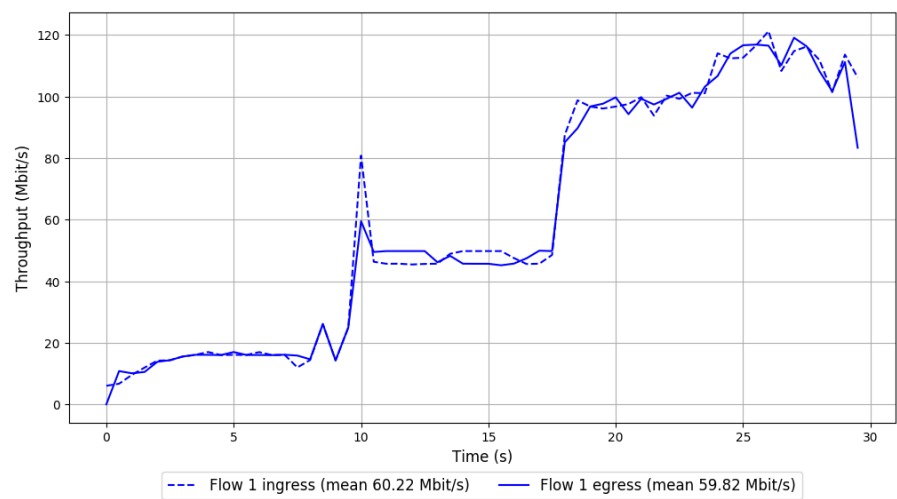
-- Flow 1:

Average throughput: 59.82 Mbit/s

95th percentile per-packet one-way delay: 115.042 ms

Loss rate: 1.39%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-26 21:56:58

End at: 2018-03-26 21:57:29

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.95 Mbit/s

95th percentile per-packet one-way delay: 113.160 ms

Loss rate: 0.08%

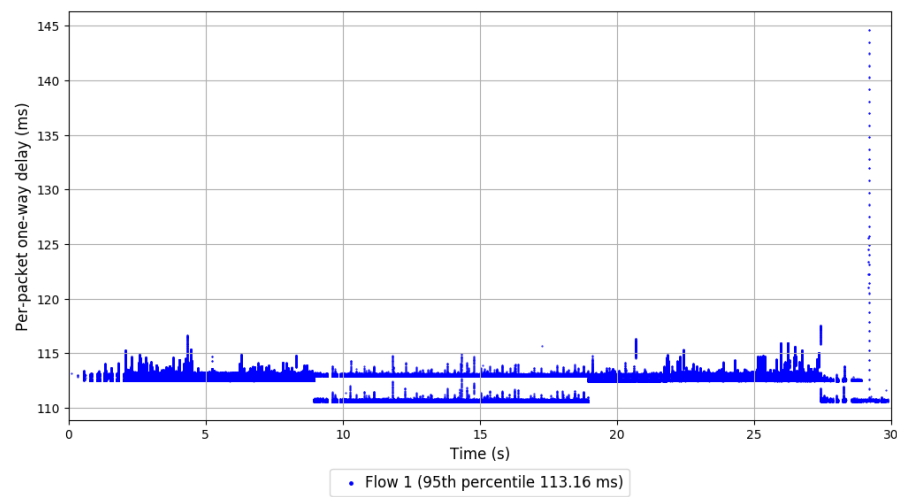
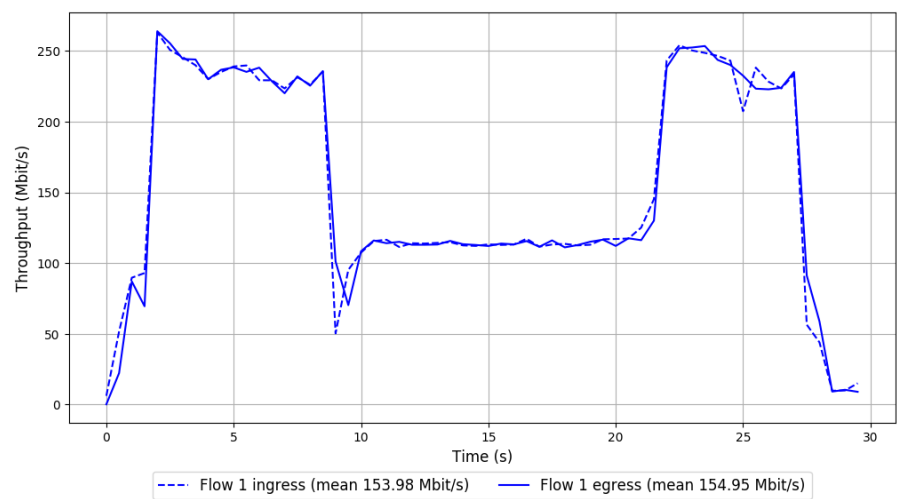
-- Flow 1:

Average throughput: 154.95 Mbit/s

95th percentile per-packet one-way delay: 113.160 ms

Loss rate: 0.08%

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

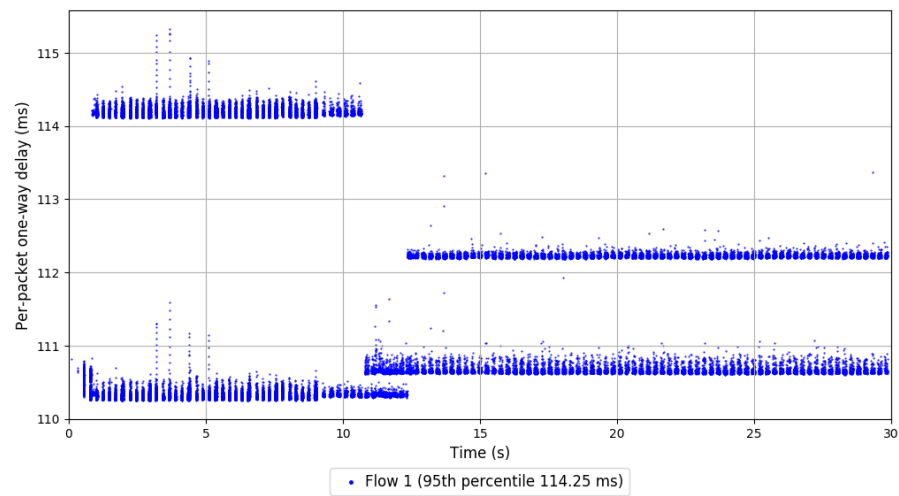
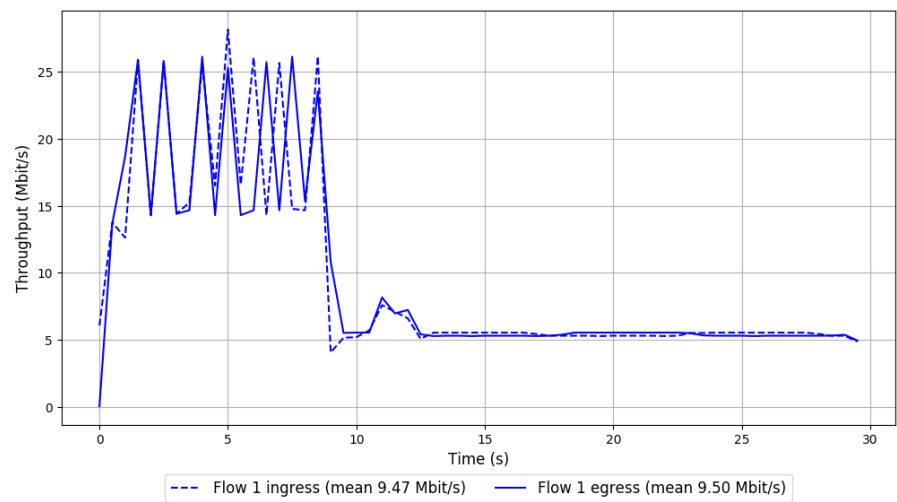


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-26 22:12:35
End at: 2018-03-26 22:13:05

# Below is generated by plot.py at 2018-03-27 01:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 114.249 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 114.249 ms
Loss rate: 0.37%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-26 19:54:37

End at: 2018-03-26 19:55:07

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 123.276 ms

Loss rate: 0.46%

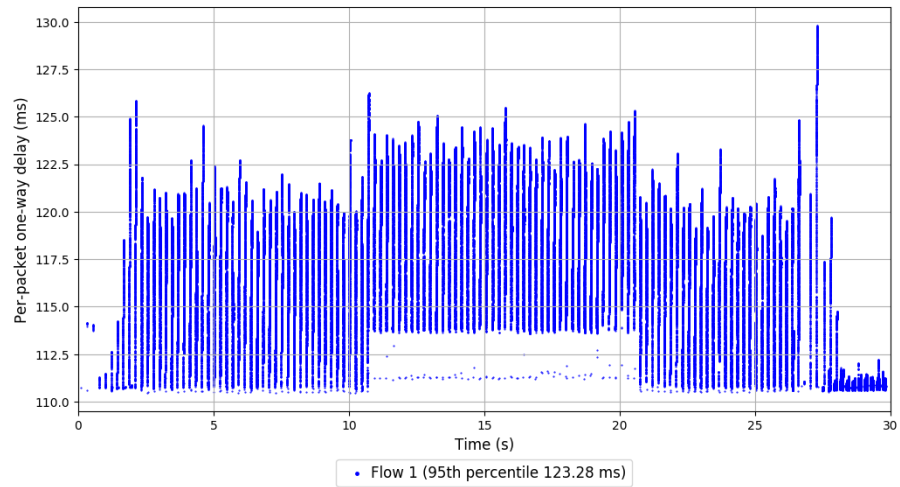
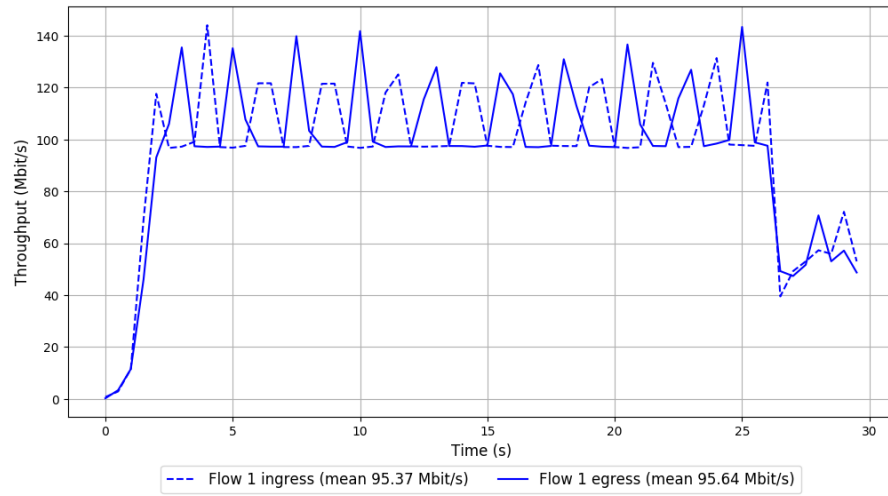
-- Flow 1:

Average throughput: 95.64 Mbit/s

95th percentile per-packet one-way delay: 123.276 ms

Loss rate: 0.46%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-26 20:10:05

End at: 2018-03-26 20:10:35

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.33 Mbit/s

95th percentile per-packet one-way delay: 122.496 ms

Loss rate: 0.80%

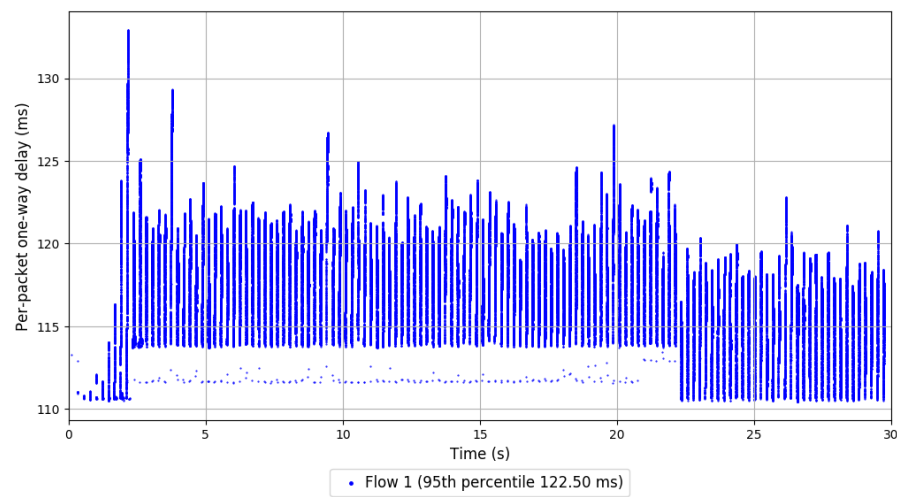
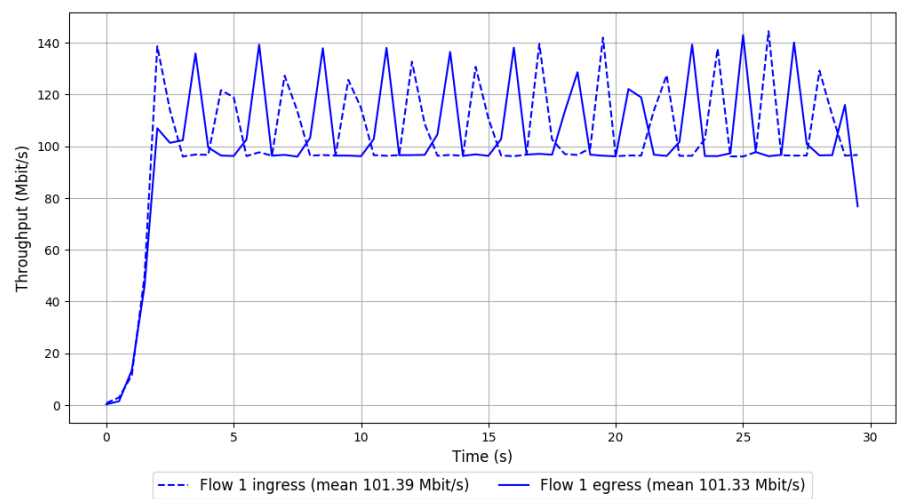
-- Flow 1:

Average throughput: 101.33 Mbit/s

95th percentile per-packet one-way delay: 122.496 ms

Loss rate: 0.80%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-26 20:25:20

End at: 2018-03-26 20:25:50

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.95 Mbit/s

95th percentile per-packet one-way delay: 114.708 ms

Loss rate: 0.75%

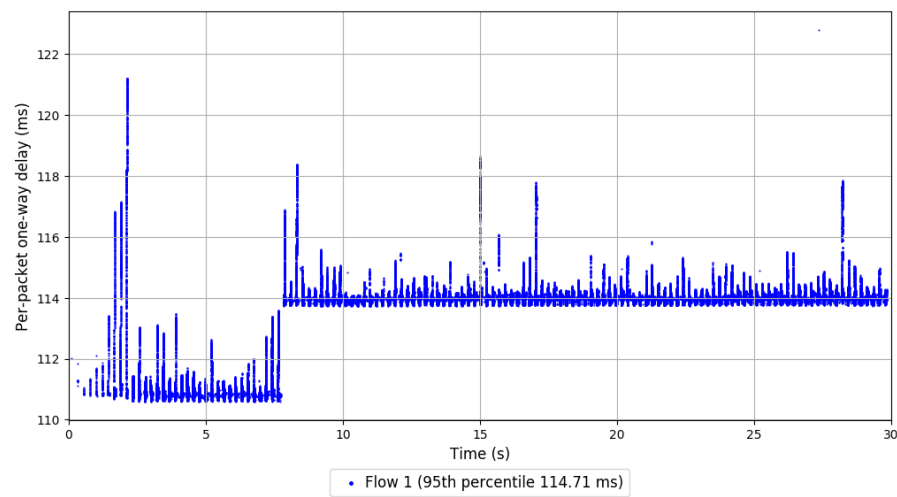
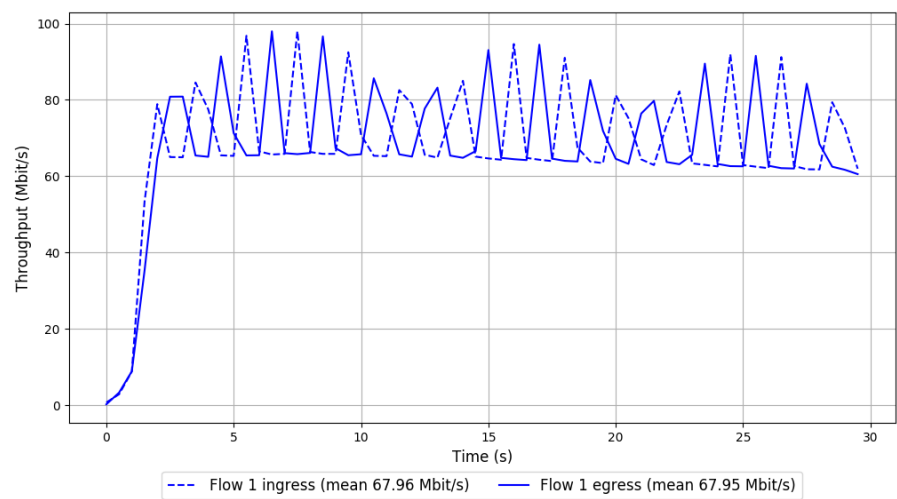
-- Flow 1:

Average throughput: 67.95 Mbit/s

95th percentile per-packet one-way delay: 114.708 ms

Loss rate: 0.75%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-26 20:40:51

End at: 2018-03-26 20:41:21

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 115.717 ms

Loss rate: 0.73%

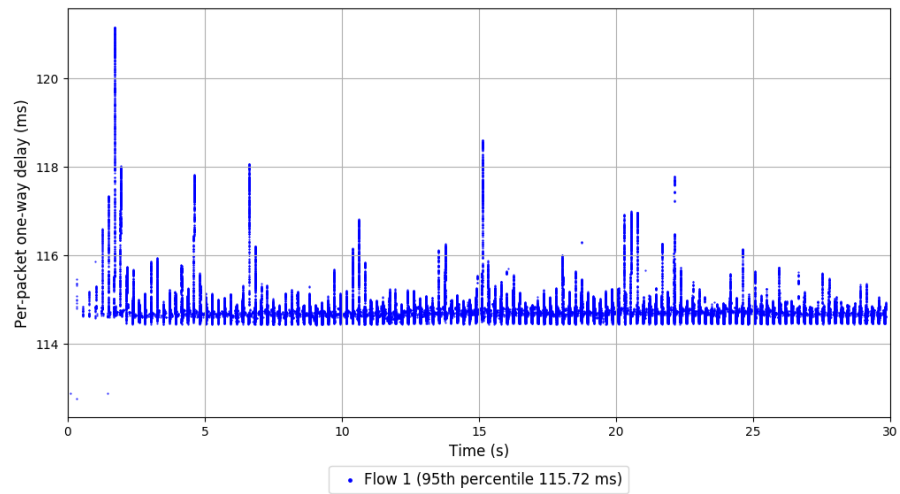
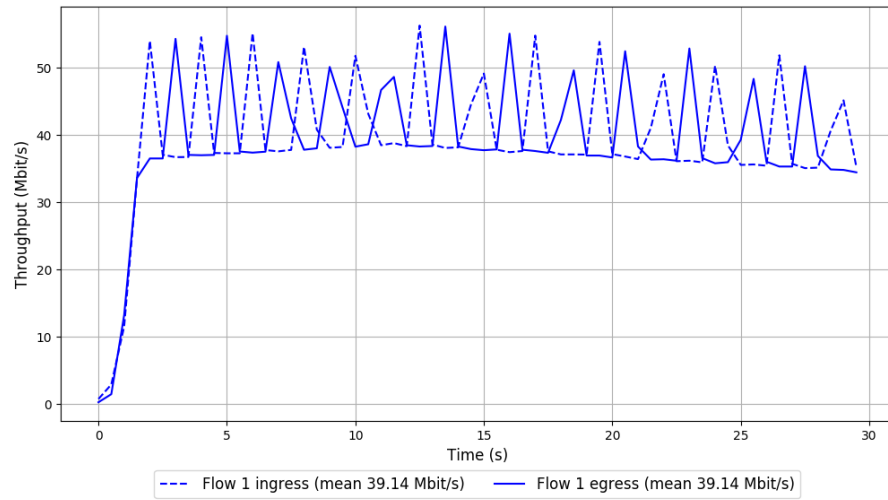
-- Flow 1:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 115.717 ms

Loss rate: 0.73%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-26 20:56:21

End at: 2018-03-26 20:56:51

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.54 Mbit/s

95th percentile per-packet one-way delay: 122.193 ms

Loss rate: 0.83%

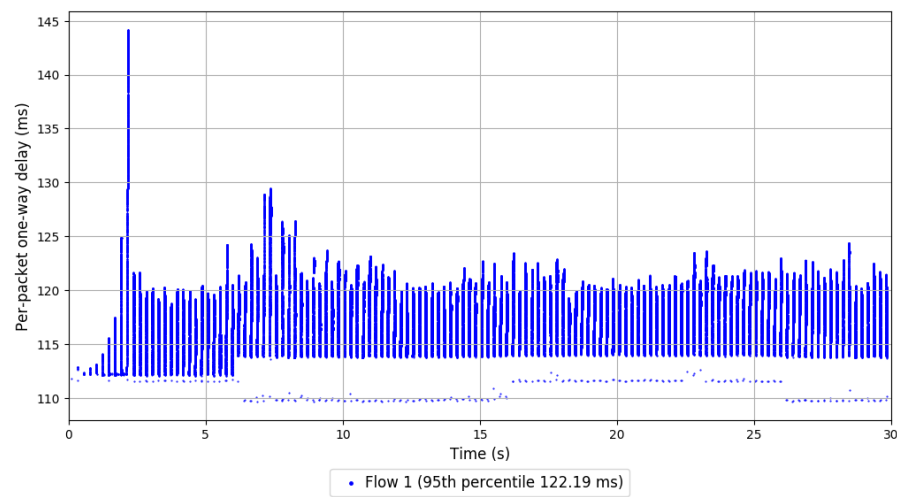
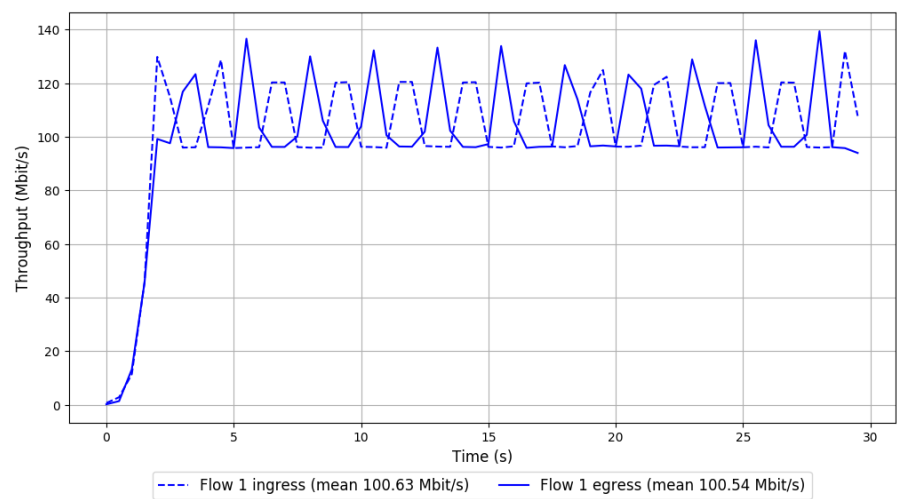
-- Flow 1:

Average throughput: 100.54 Mbit/s

95th percentile per-packet one-way delay: 122.193 ms

Loss rate: 0.83%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-26 21:11:44

End at: 2018-03-26 21:12:14

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.21 Mbit/s

95th percentile per-packet one-way delay: 122.825 ms

Loss rate: 0.81%

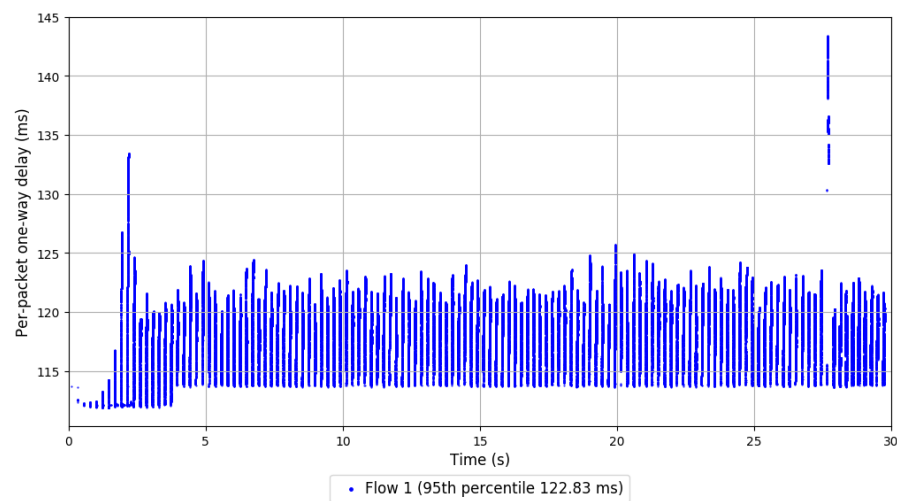
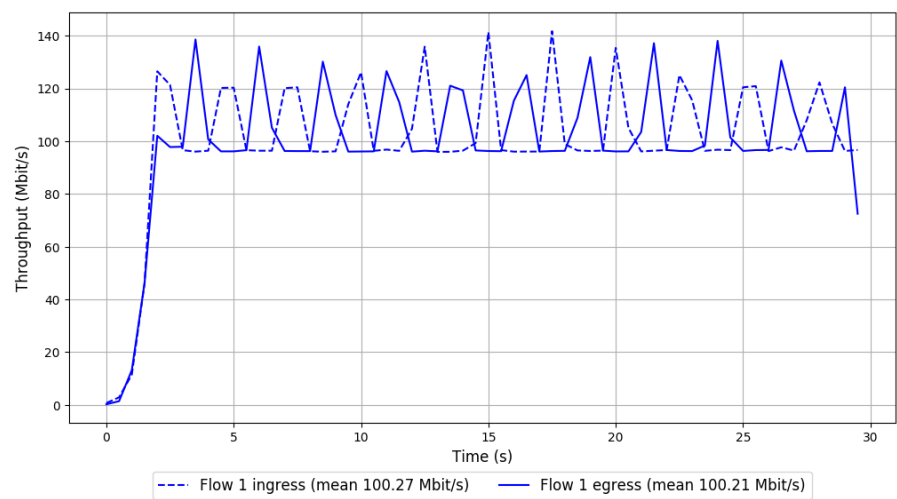
-- Flow 1:

Average throughput: 100.21 Mbit/s

95th percentile per-packet one-way delay: 122.825 ms

Loss rate: 0.81%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-26 21:26:53

End at: 2018-03-26 21:27:23

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 114.141 ms

Loss rate: 0.70%

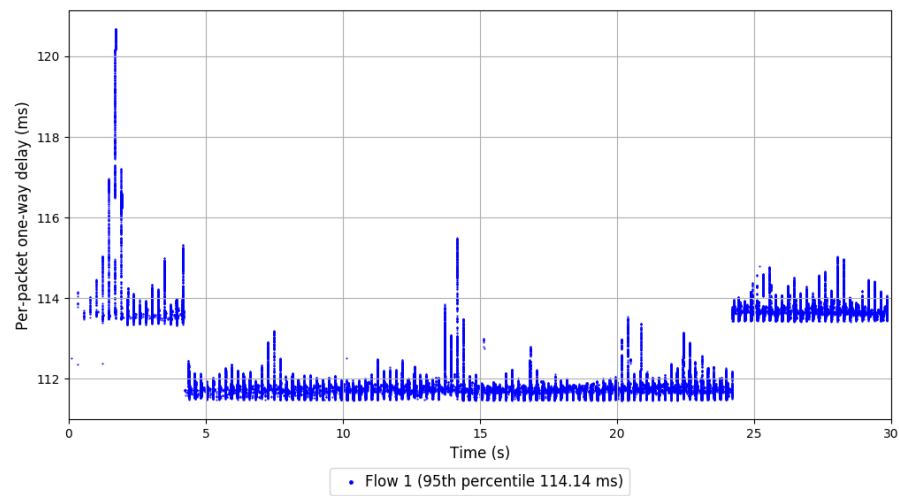
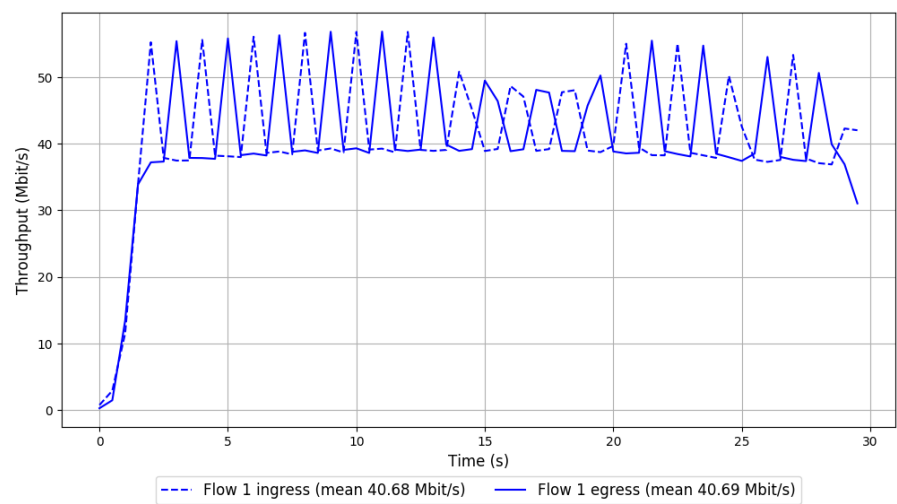
-- Flow 1:

Average throughput: 40.69 Mbit/s

95th percentile per-packet one-way delay: 114.141 ms

Loss rate: 0.70%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-26 21:42:15

End at: 2018-03-26 21:42:45

Below is generated by plot.py at 2018-03-27 01:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 113.777 ms

Loss rate: 0.80%

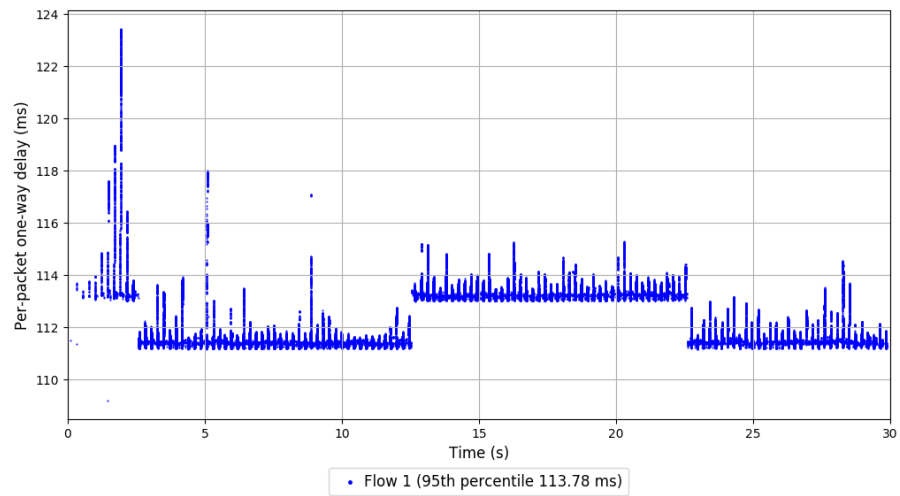
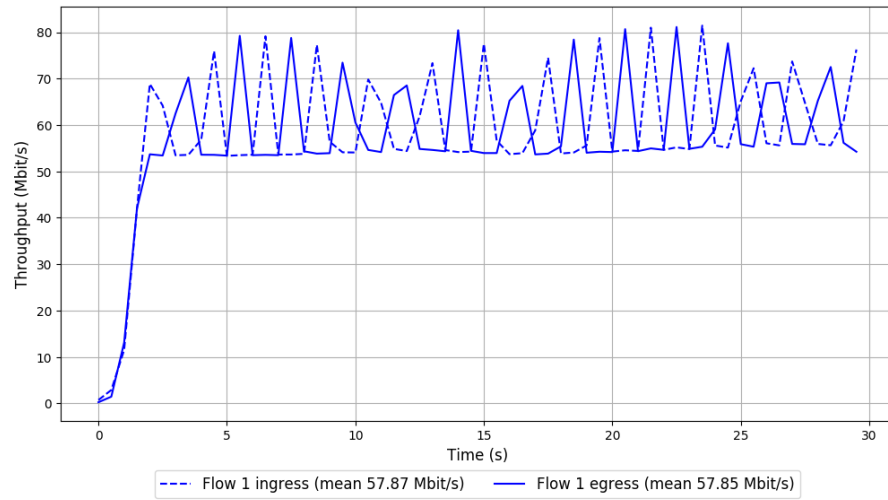
-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 113.777 ms

Loss rate: 0.80%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-26 21:57:54

End at: 2018-03-26 21:58:24

Below is generated by plot.py at 2018-03-27 01:25:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.36 Mbit/s

95th percentile per-packet one-way delay: 120.640 ms

Loss rate: 0.79%

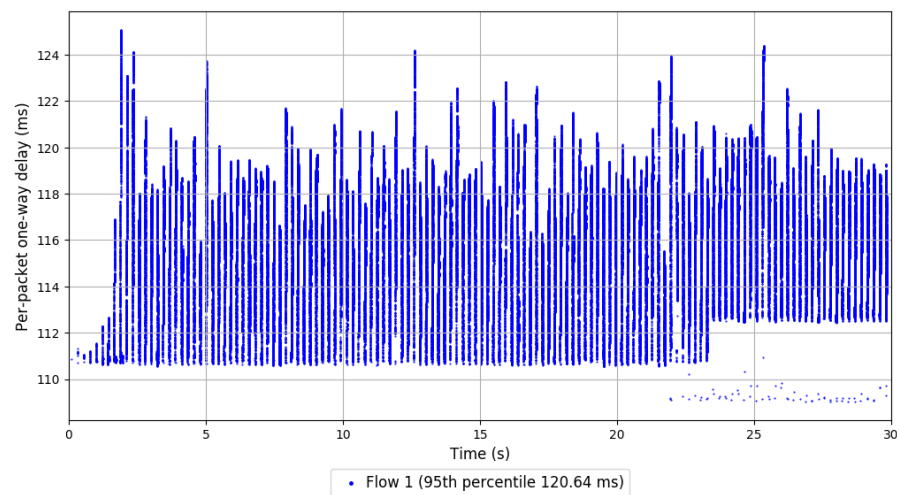
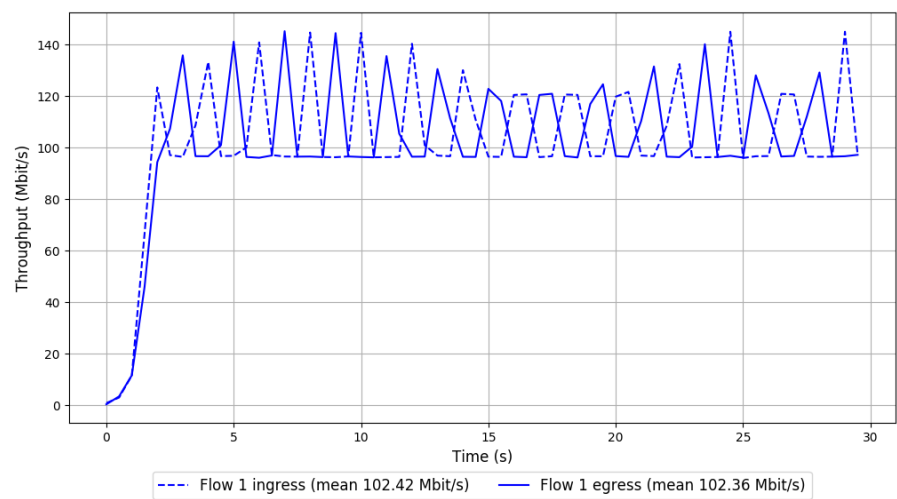
-- Flow 1:

Average throughput: 102.36 Mbit/s

95th percentile per-packet one-way delay: 120.640 ms

Loss rate: 0.79%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-26 22:13:17

End at: 2018-03-26 22:13:47

Below is generated by plot.py at 2018-03-27 01:25:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 113.564 ms

Loss rate: 0.77%

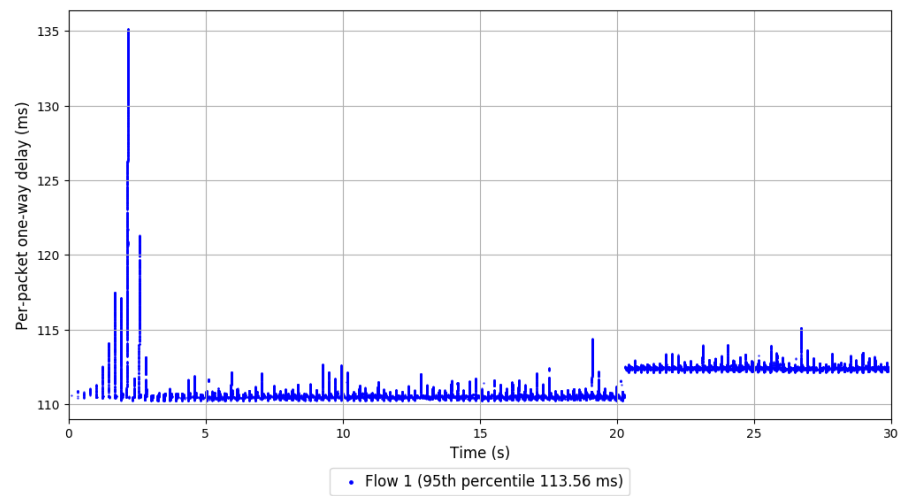
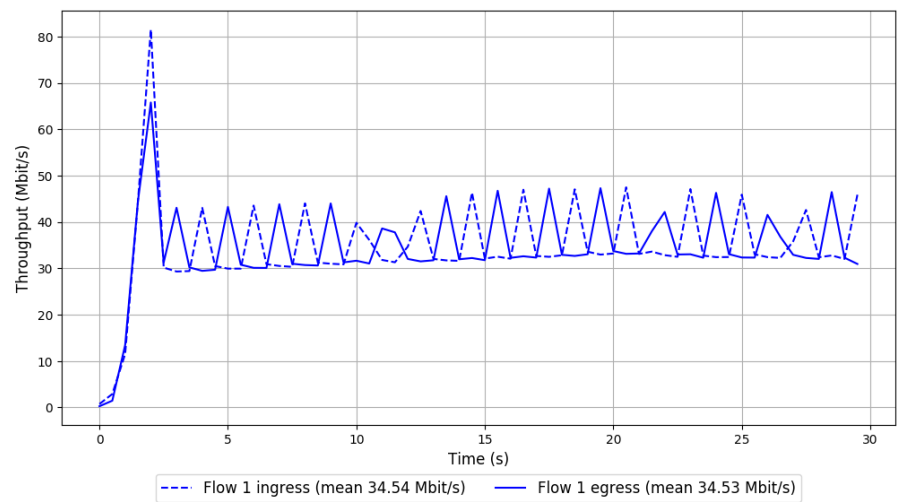
-- Flow 1:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 113.564 ms

Loss rate: 0.77%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-26 19:57:35

End at: 2018-03-26 19:58:05

Below is generated by plot.py at 2018-03-27 01:26:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.82 Mbit/s

95th percentile per-packet one-way delay: 136.643 ms

Loss rate: 0.05%

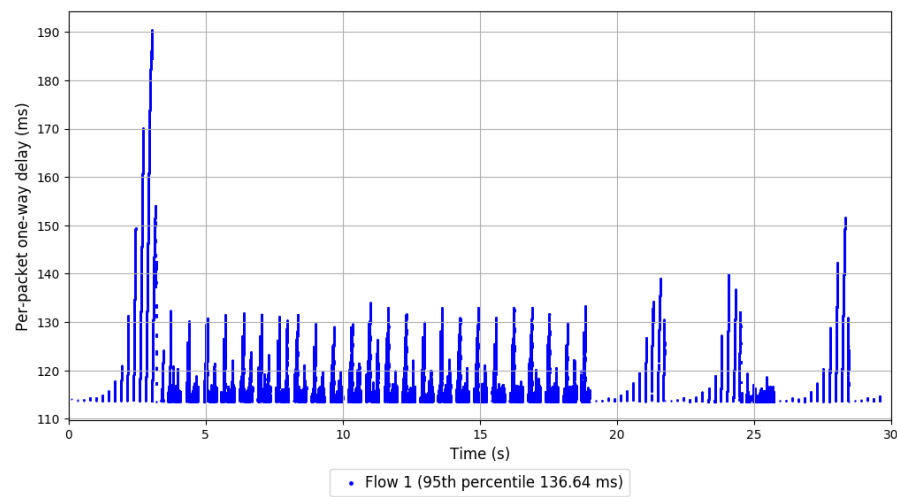
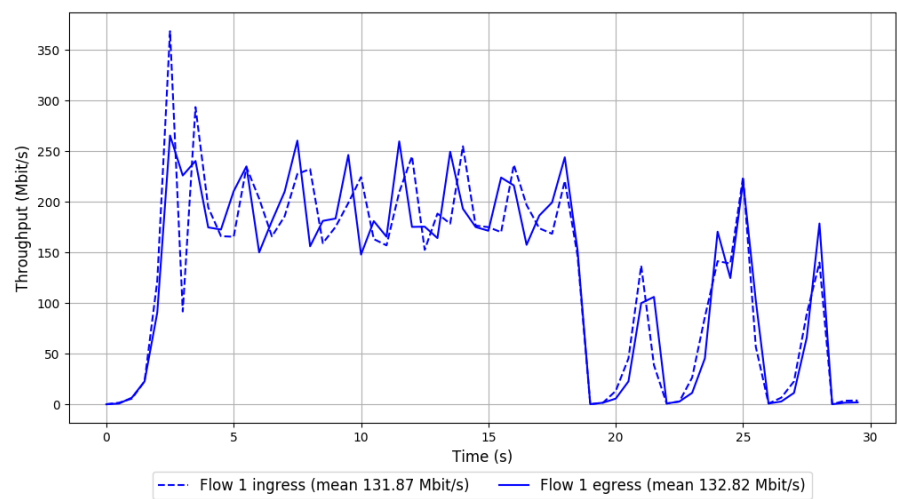
-- Flow 1:

Average throughput: 132.82 Mbit/s

95th percentile per-packet one-way delay: 136.643 ms

Loss rate: 0.05%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-26 20:13:00

End at: 2018-03-26 20:13:30

Below is generated by plot.py at 2018-03-27 01:26:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 247.272 ms

Loss rate: 3.44%

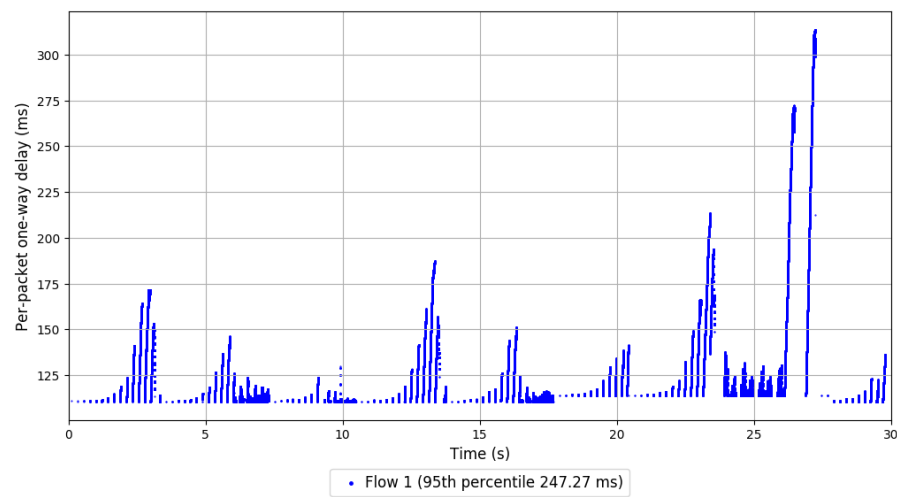
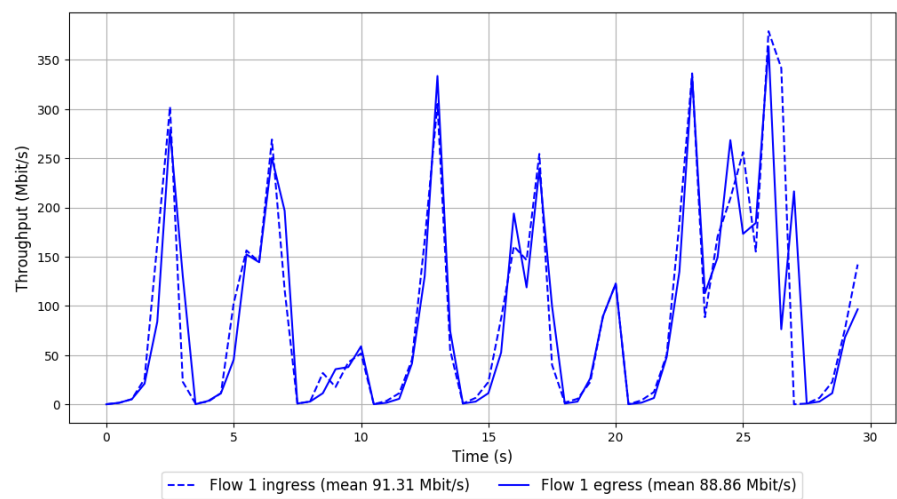
-- Flow 1:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 247.272 ms

Loss rate: 3.44%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-26 20:28:18

End at: 2018-03-26 20:28:48

Below is generated by plot.py at 2018-03-27 01:26:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.03 Mbit/s

95th percentile per-packet one-way delay: 159.379 ms

Loss rate: 1.35%

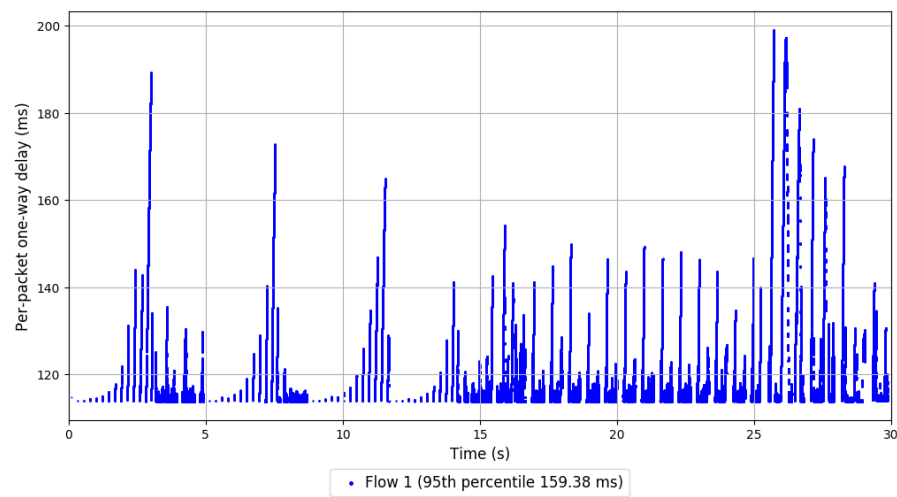
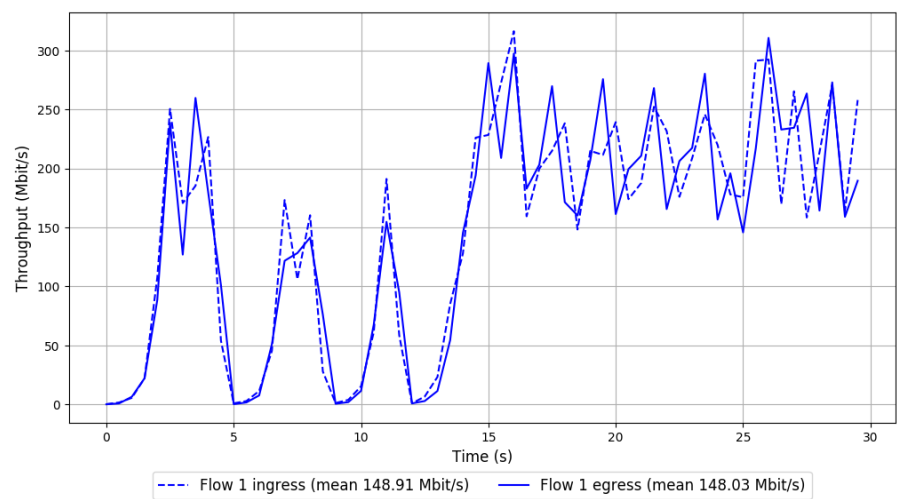
-- Flow 1:

Average throughput: 148.03 Mbit/s

95th percentile per-packet one-way delay: 159.379 ms

Loss rate: 1.35%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-26 20:43:46

End at: 2018-03-26 20:44:16

Below is generated by plot.py at 2018-03-27 01:26:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.99 Mbit/s

95th percentile per-packet one-way delay: 137.958 ms

Loss rate: 0.00%

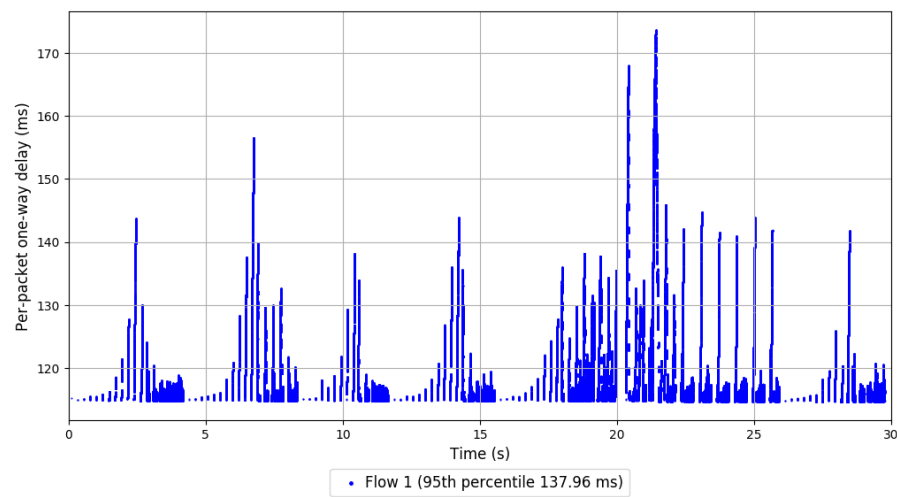
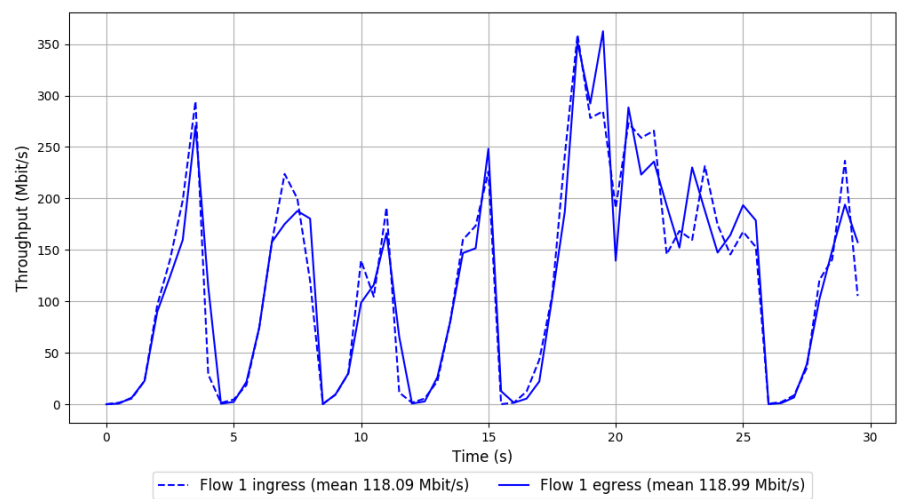
-- Flow 1:

Average throughput: 118.99 Mbit/s

95th percentile per-packet one-way delay: 137.958 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-26 20:59:16

End at: 2018-03-26 20:59:46

Below is generated by plot.py at 2018-03-27 01:26:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.98 Mbit/s

95th percentile per-packet one-way delay: 224.339 ms

Loss rate: 7.99%

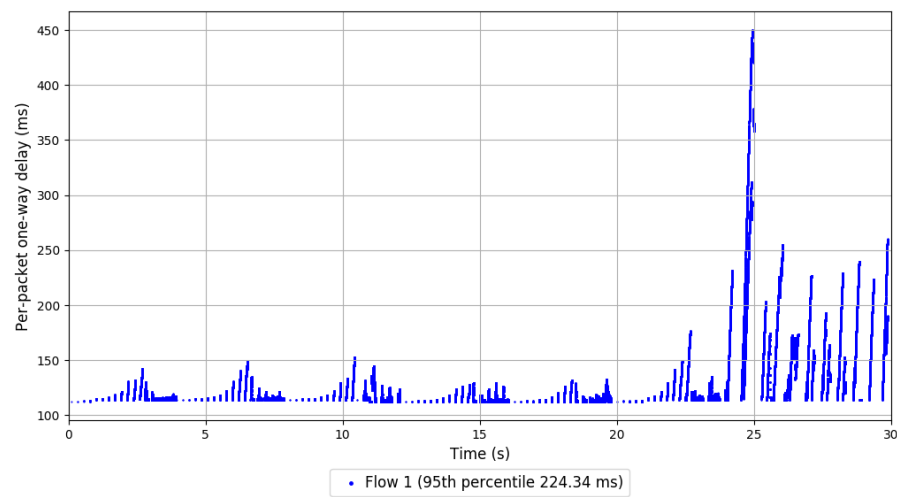
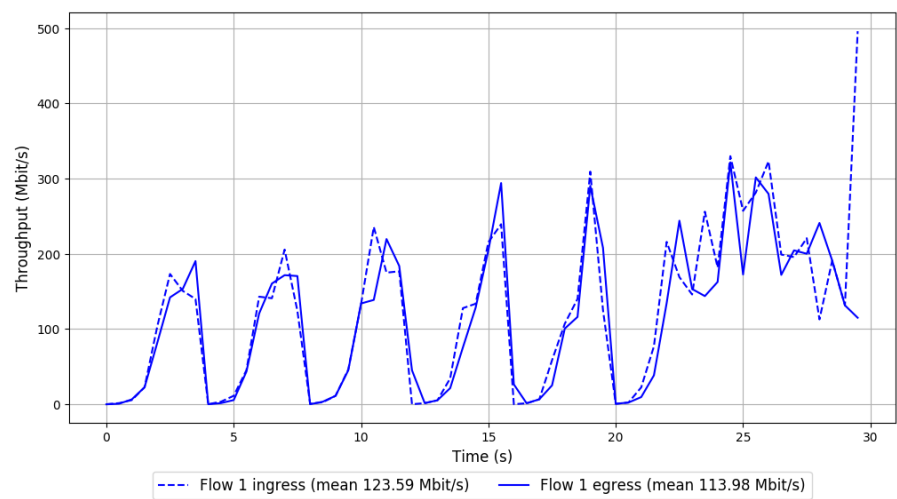
-- Flow 1:

Average throughput: 113.98 Mbit/s

95th percentile per-packet one-way delay: 224.339 ms

Loss rate: 7.99%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-26 21:14:32

End at: 2018-03-26 21:15:02

Below is generated by plot.py at 2018-03-27 01:26:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 134.804 ms

Loss rate: 2.63%

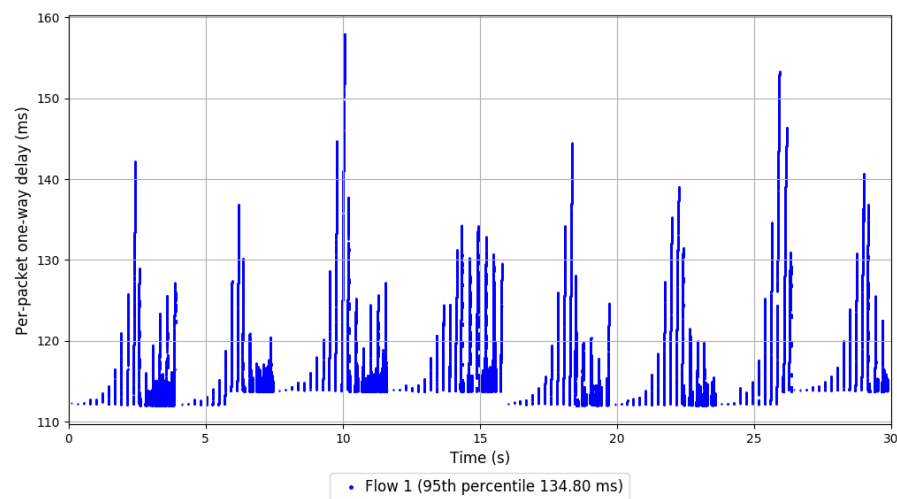
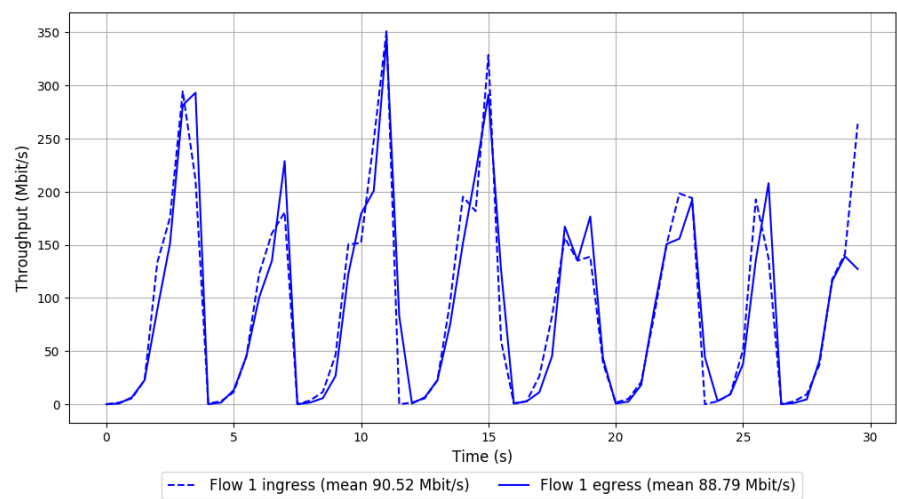
-- Flow 1:

Average throughput: 88.79 Mbit/s

95th percentile per-packet one-way delay: 134.804 ms

Loss rate: 2.63%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-26 21:29:45

End at: 2018-03-26 21:30:15

Below is generated by plot.py at 2018-03-27 01:28:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.20 Mbit/s

95th percentile per-packet one-way delay: 263.516 ms

Loss rate: 4.56%

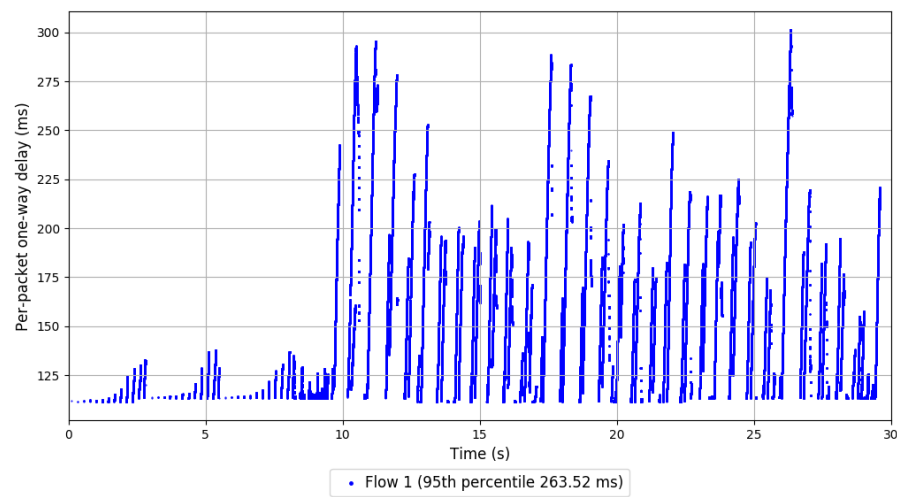
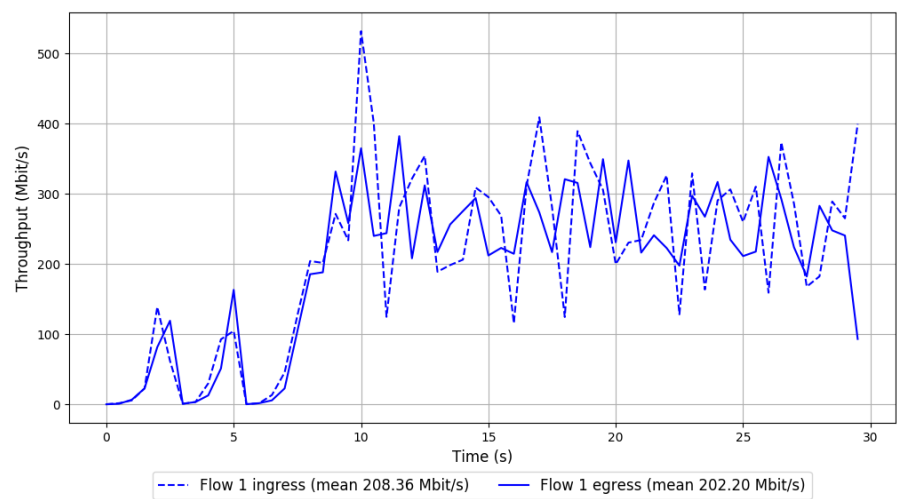
-- Flow 1:

Average throughput: 202.20 Mbit/s

95th percentile per-packet one-way delay: 263.516 ms

Loss rate: 4.56%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-26 21:45:07

End at: 2018-03-26 21:45:37

Below is generated by plot.py at 2018-03-27 01:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.69 Mbit/s

95th percentile per-packet one-way delay: 225.569 ms

Loss rate: 1.62%

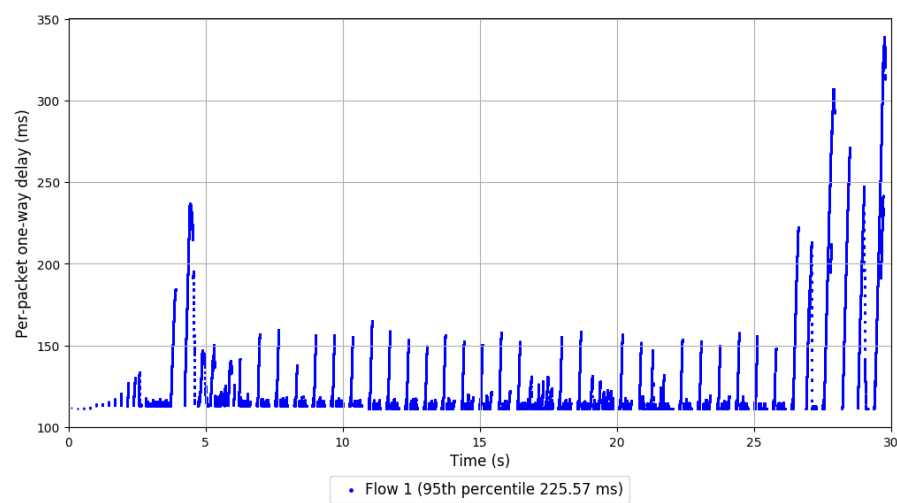
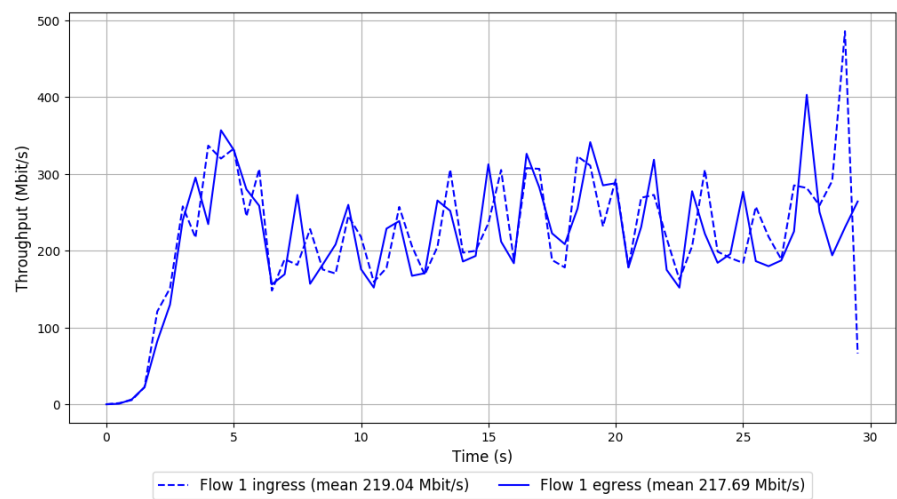
-- Flow 1:

Average throughput: 217.69 Mbit/s

95th percentile per-packet one-way delay: 225.569 ms

Loss rate: 1.62%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-26 22:00:53

End at: 2018-03-26 22:01:23

Below is generated by plot.py at 2018-03-27 01:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.53 Mbit/s

95th percentile per-packet one-way delay: 138.079 ms

Loss rate: 1.57%

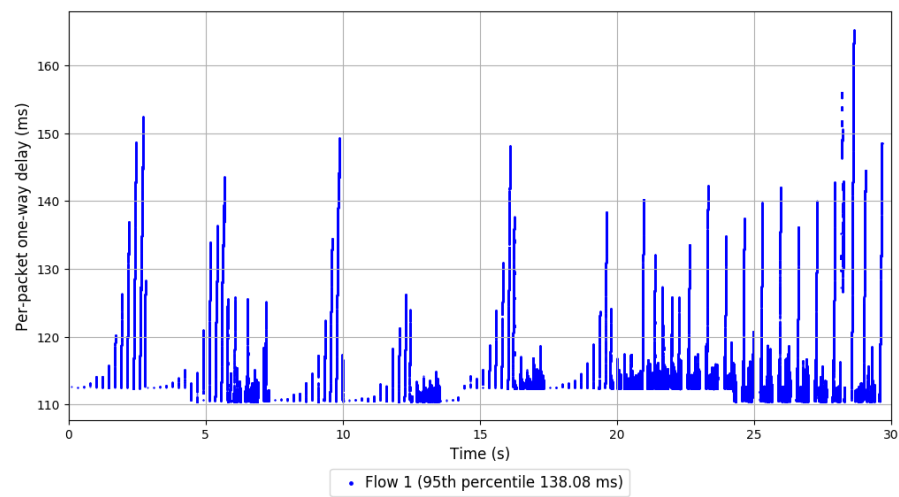
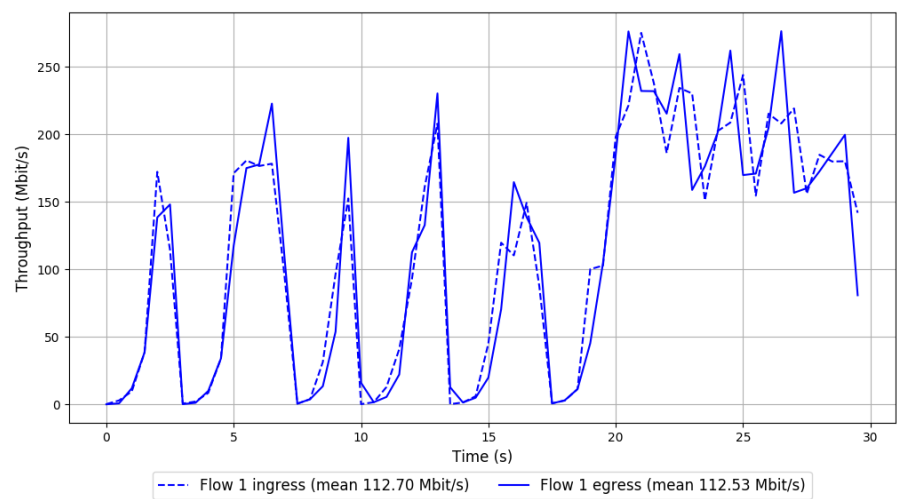
-- Flow 1:

Average throughput: 112.53 Mbit/s

95th percentile per-packet one-way delay: 138.079 ms

Loss rate: 1.57%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-26 22:16:14

End at: 2018-03-26 22:16:44

Below is generated by plot.py at 2018-03-27 01:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.87 Mbit/s

95th percentile per-packet one-way delay: 310.095 ms

Loss rate: 5.66%

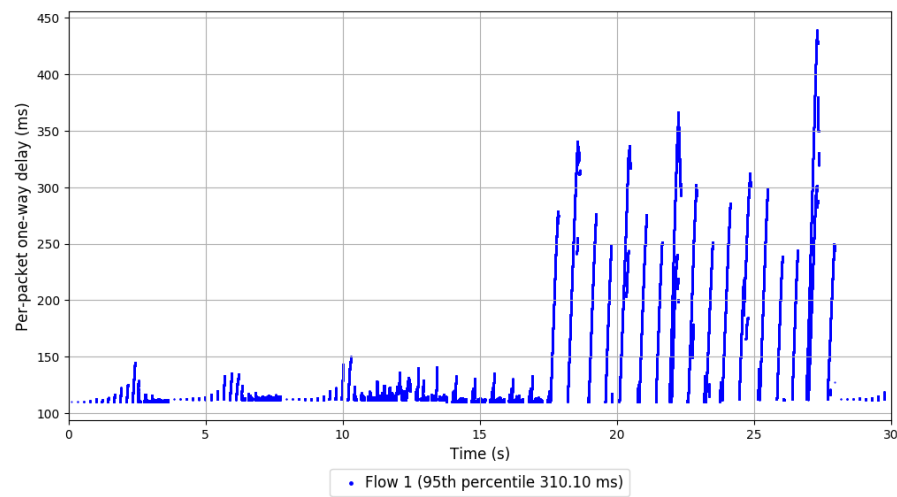
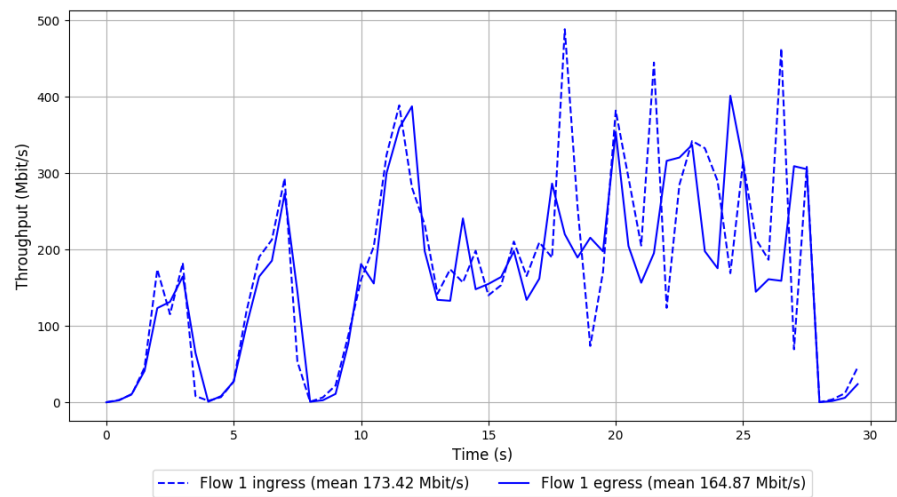
-- Flow 1:

Average throughput: 164.87 Mbit/s

95th percentile per-packet one-way delay: 310.095 ms

Loss rate: 5.66%

Run 10: Report of Verus — Data Link

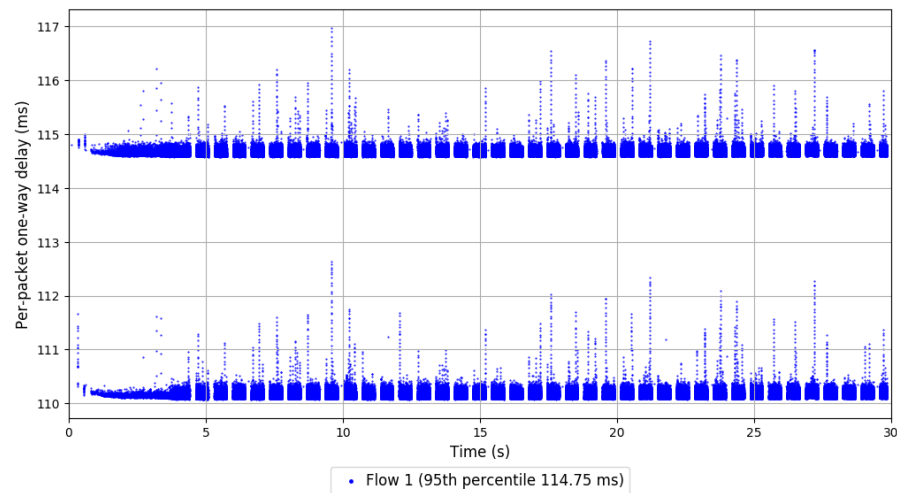
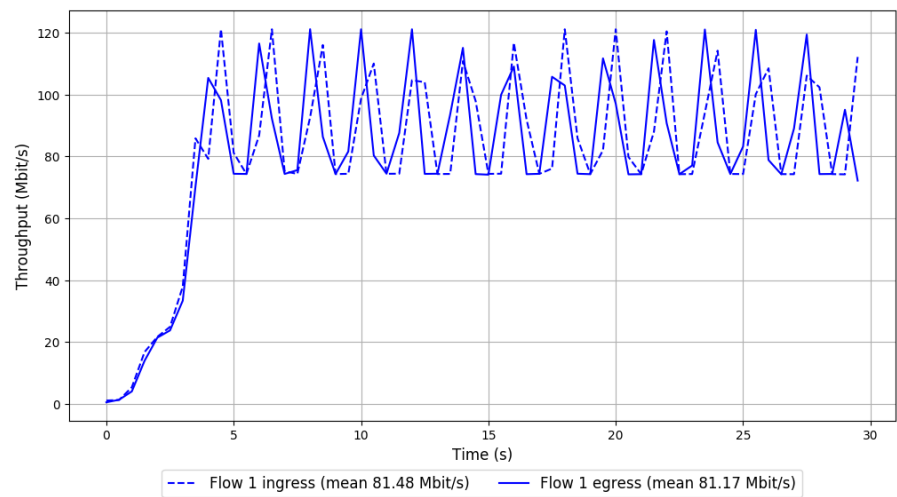


```
Run 1: Statistics of Copa

Start at: 2018-03-26 19:49:08
End at: 2018-03-26 19:49:38

# Below is generated by plot.py at 2018-03-27 01:29:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.17 Mbit/s
95th percentile per-packet one-way delay: 114.746 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 81.17 Mbit/s
95th percentile per-packet one-way delay: 114.746 ms
Loss rate: 1.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-26 20:04:39

End at: 2018-03-26 20:05:09

Below is generated by plot.py at 2018-03-27 01:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.29 Mbit/s

95th percentile per-packet one-way delay: 113.440 ms

Loss rate: 0.33%

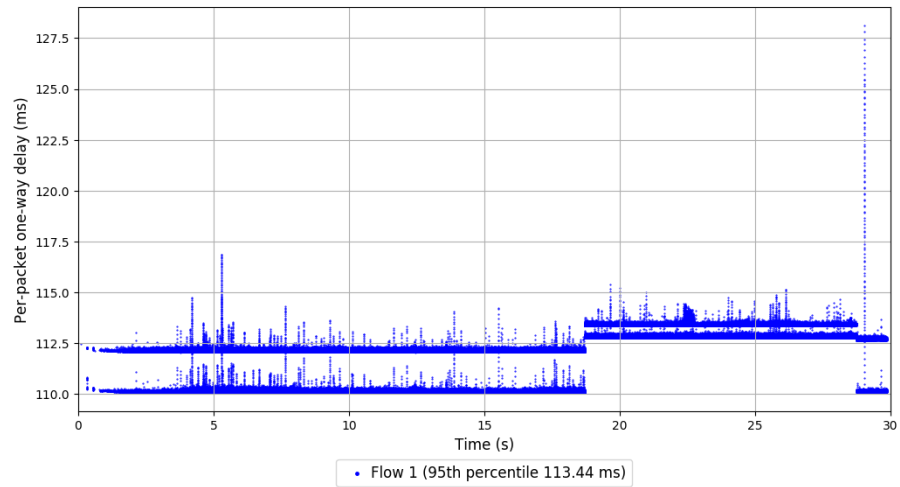
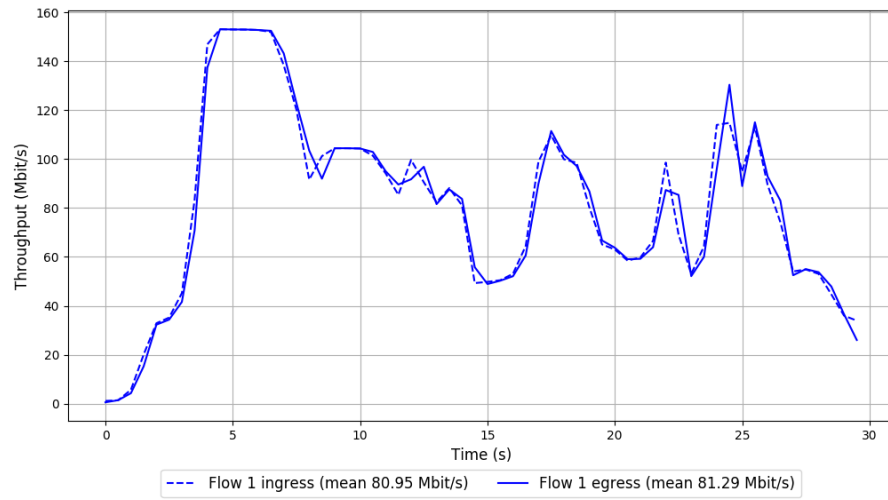
-- Flow 1:

Average throughput: 81.29 Mbit/s

95th percentile per-packet one-way delay: 113.440 ms

Loss rate: 0.33%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-26 20:19:59

End at: 2018-03-26 20:20:29

Below is generated by plot.py at 2018-03-27 01:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 113.671 ms

Loss rate: 0.79%

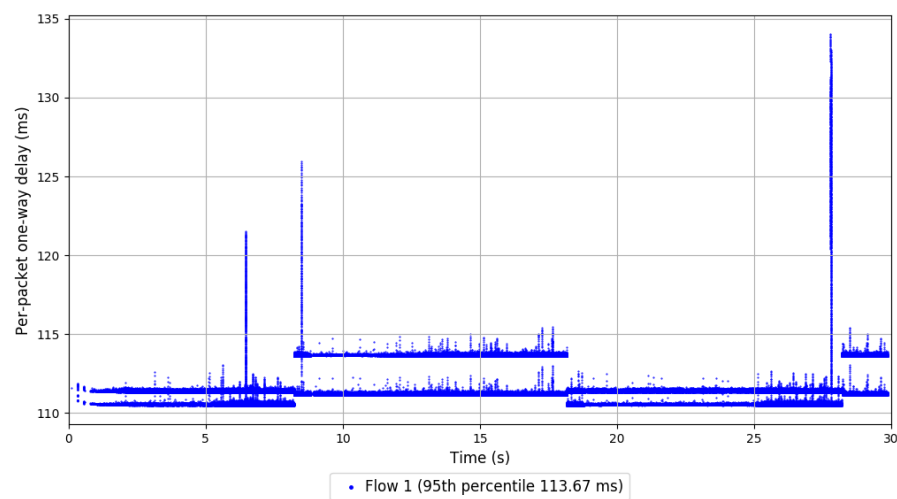
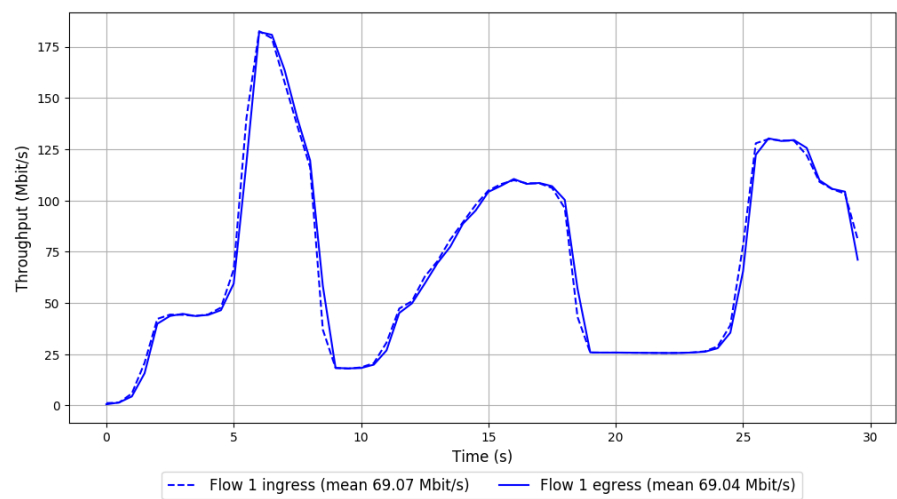
-- Flow 1:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 113.671 ms

Loss rate: 0.79%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-26 20:35:21

End at: 2018-03-26 20:35:51

Below is generated by plot.py at 2018-03-27 01:30:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 114.384 ms

Loss rate: 0.64%

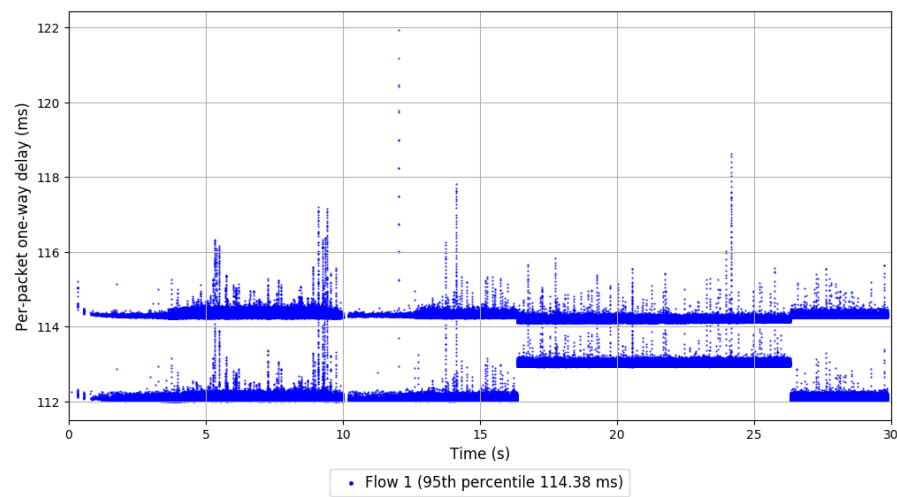
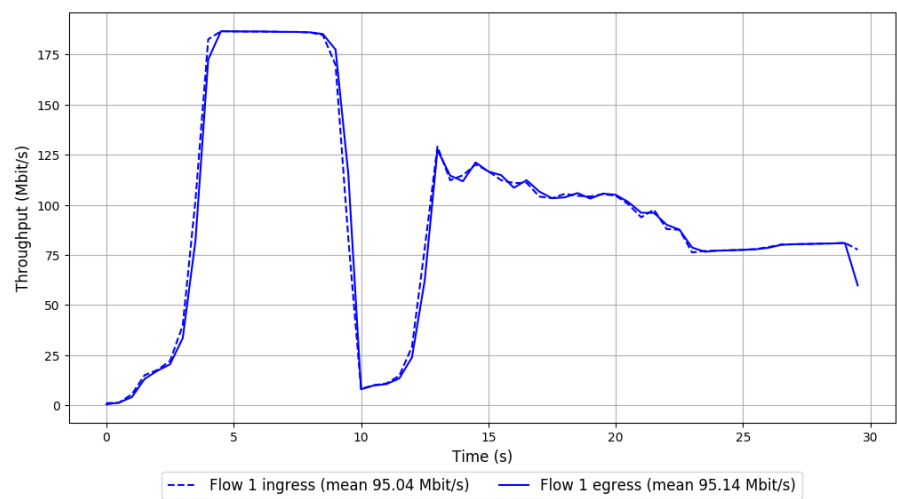
-- Flow 1:

Average throughput: 95.14 Mbit/s

95th percentile per-packet one-way delay: 114.384 ms

Loss rate: 0.64%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-26 20:50:43

End at: 2018-03-26 20:51:13

Below is generated by plot.py at 2018-03-27 01:30:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.24 Mbit/s

95th percentile per-packet one-way delay: 114.314 ms

Loss rate: 0.77%

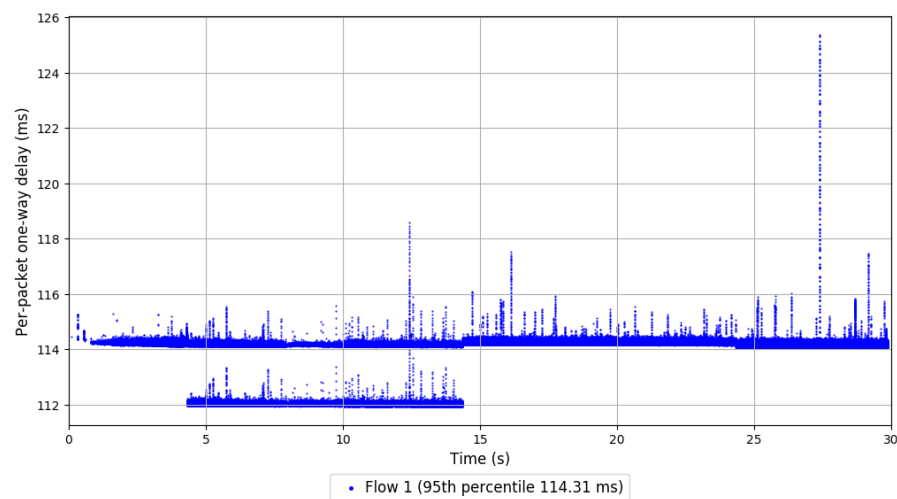
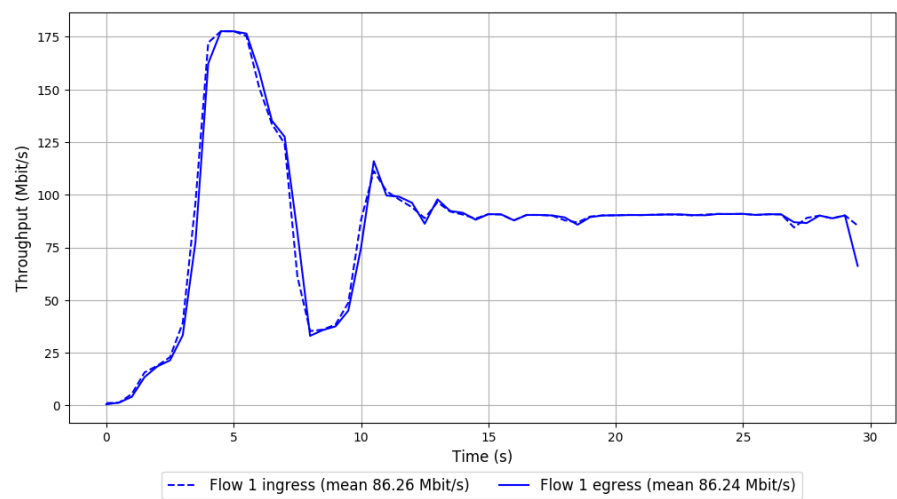
-- Flow 1:

Average throughput: 86.24 Mbit/s

95th percentile per-packet one-way delay: 114.314 ms

Loss rate: 0.77%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-26 21:06:05

End at: 2018-03-26 21:06:35

Below is generated by plot.py at 2018-03-27 01:31:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 113.632 ms

Loss rate: 0.76%

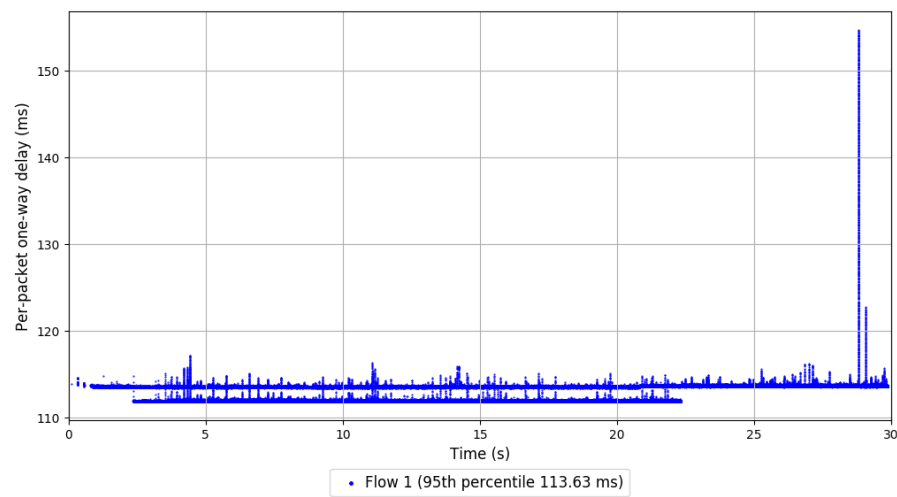
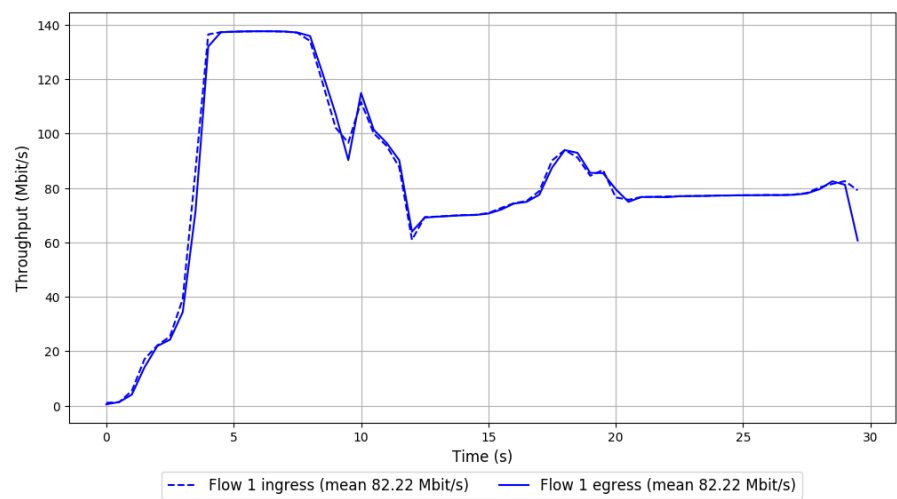
-- Flow 1:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 113.632 ms

Loss rate: 0.76%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-26 21:21:30

End at: 2018-03-26 21:22:00

Below is generated by plot.py at 2018-03-27 01:31:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.04 Mbit/s

95th percentile per-packet one-way delay: 113.967 ms

Loss rate: 1.18%

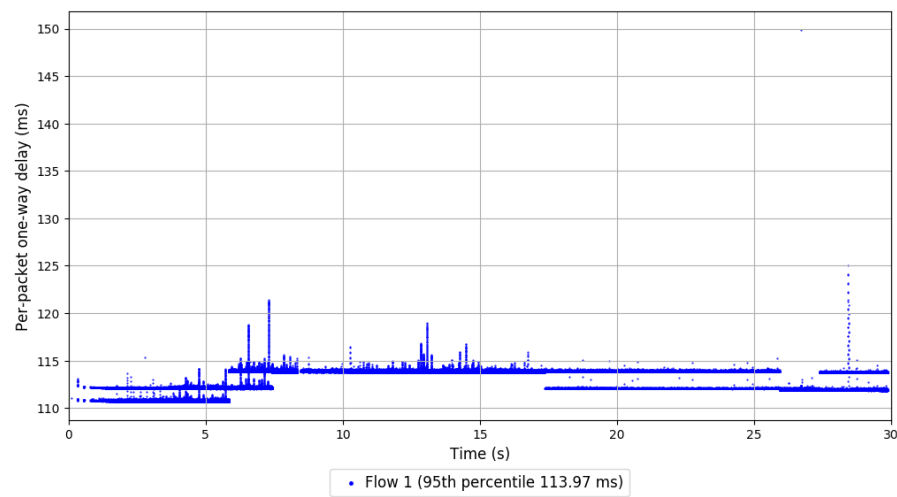
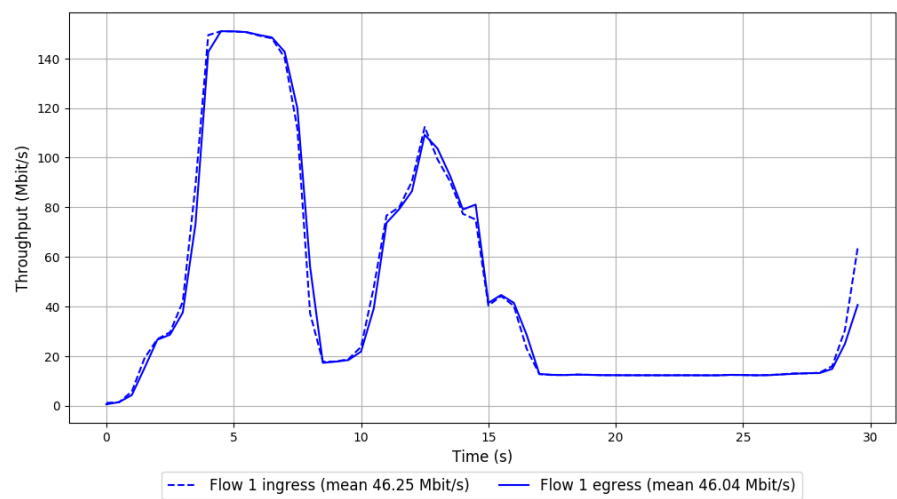
-- Flow 1:

Average throughput: 46.04 Mbit/s

95th percentile per-packet one-way delay: 113.967 ms

Loss rate: 1.18%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-26 21:36:50

End at: 2018-03-26 21:37:20

Below is generated by plot.py at 2018-03-27 01:31:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 113.129 ms

Loss rate: 0.29%

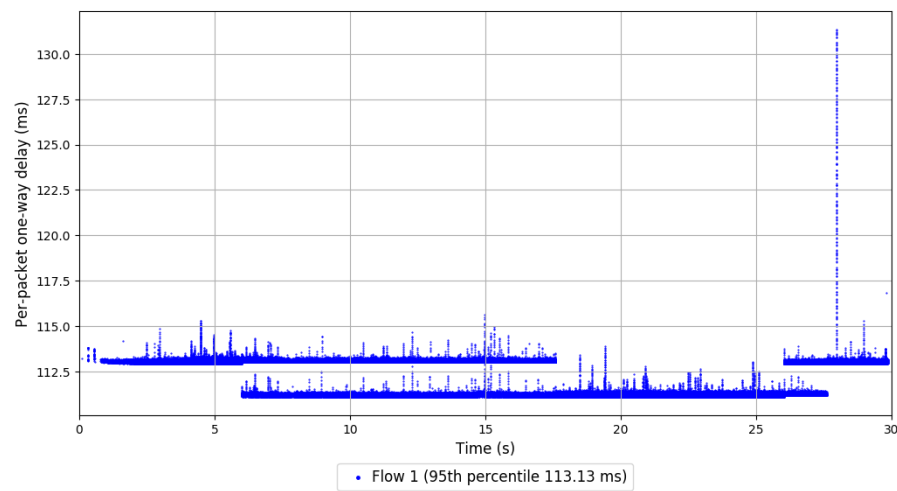
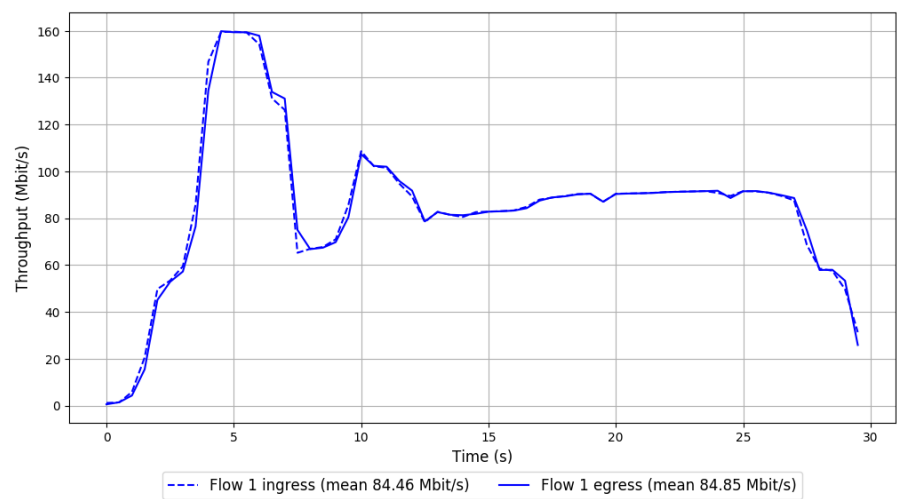
-- Flow 1:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 113.129 ms

Loss rate: 0.29%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-26 21:52:15

End at: 2018-03-26 21:52:45

Below is generated by plot.py at 2018-03-27 01:31:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 113.192 ms

Loss rate: 0.93%

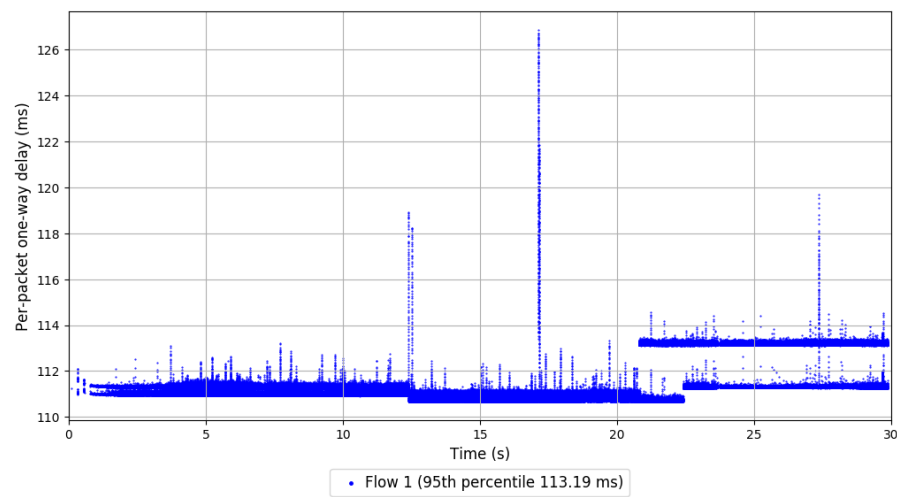
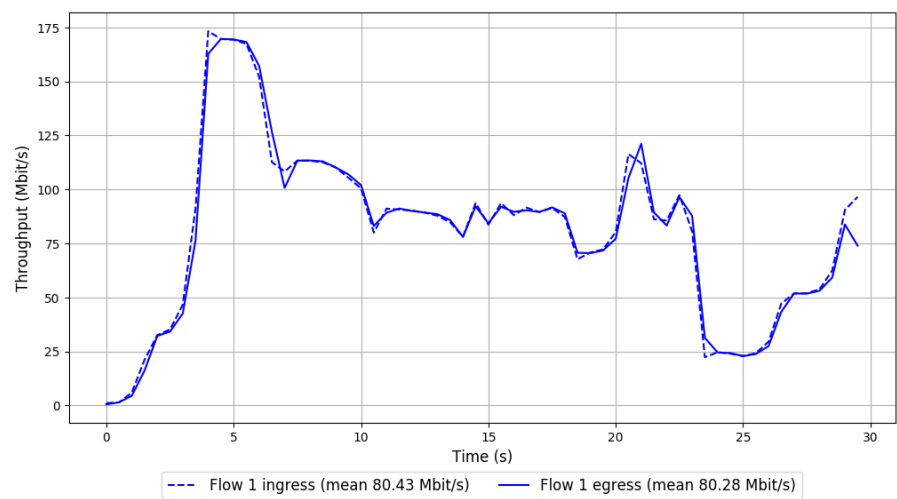
-- Flow 1:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 113.192 ms

Loss rate: 0.93%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-26 22:07:53

End at: 2018-03-26 22:08:23

Below is generated by plot.py at 2018-03-27 01:31:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 114.867 ms

Loss rate: 0.36%

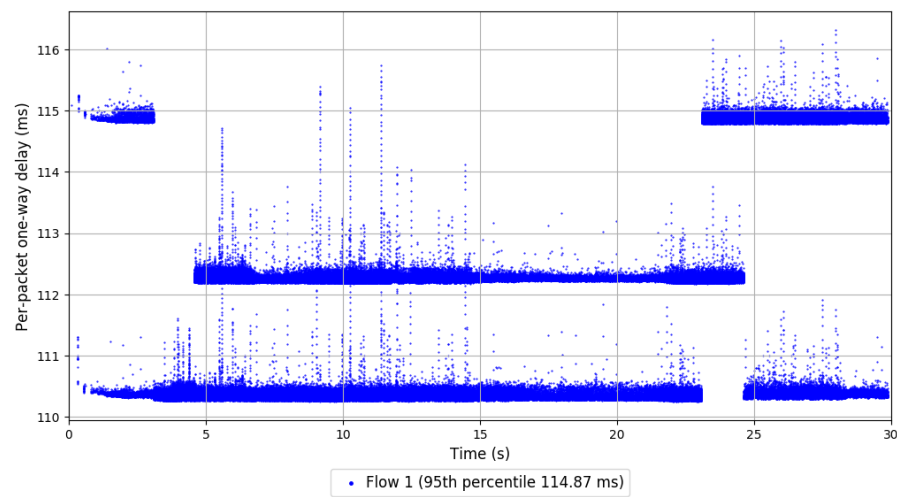
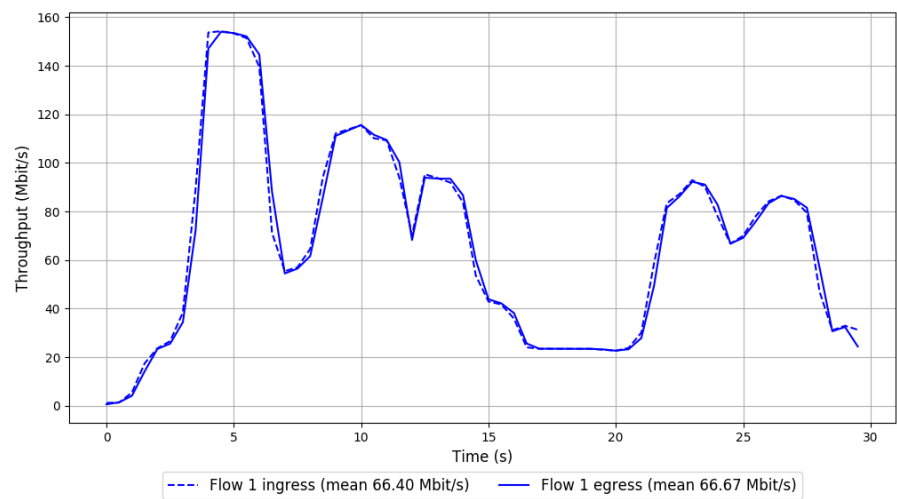
-- Flow 1:

Average throughput: 66.67 Mbit/s

95th percentile per-packet one-way delay: 114.867 ms

Loss rate: 0.36%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-26 19:49:54

End at: 2018-03-26 19:50:24

Below is generated by plot.py at 2018-03-27 01:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 747.18 Mbit/s

95th percentile per-packet one-way delay: 204.910 ms

Loss rate: 11.95%

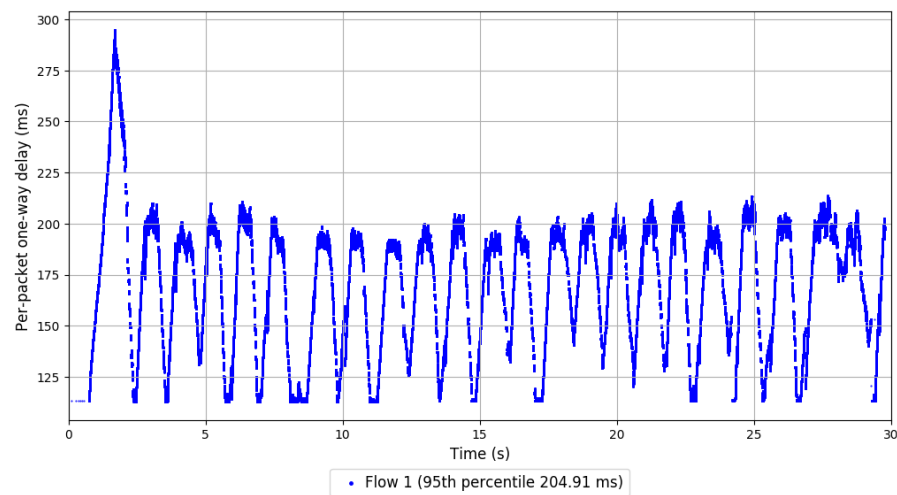
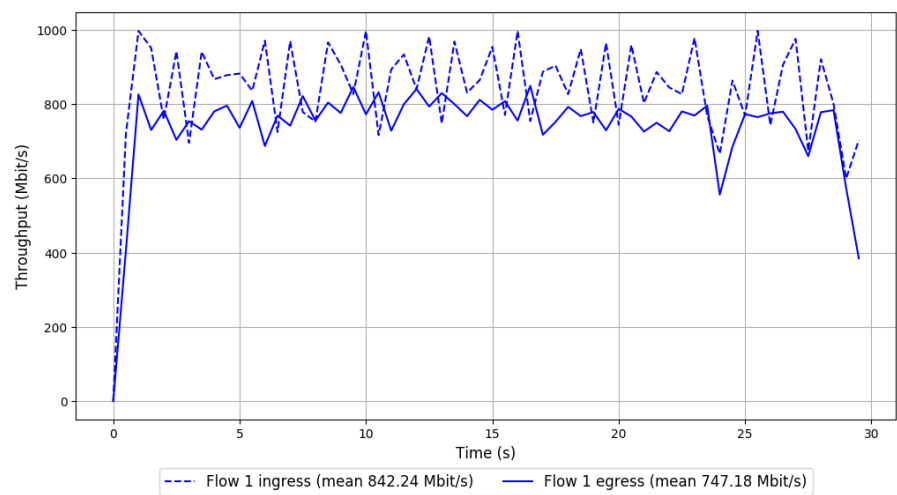
-- Flow 1:

Average throughput: 747.18 Mbit/s

95th percentile per-packet one-way delay: 204.910 ms

Loss rate: 11.95%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-26 20:05:27

End at: 2018-03-26 20:05:58

Below is generated by plot.py at 2018-03-27 01:45:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 822.25 Mbit/s

95th percentile per-packet one-way delay: 193.316 ms

Loss rate: 8.70%

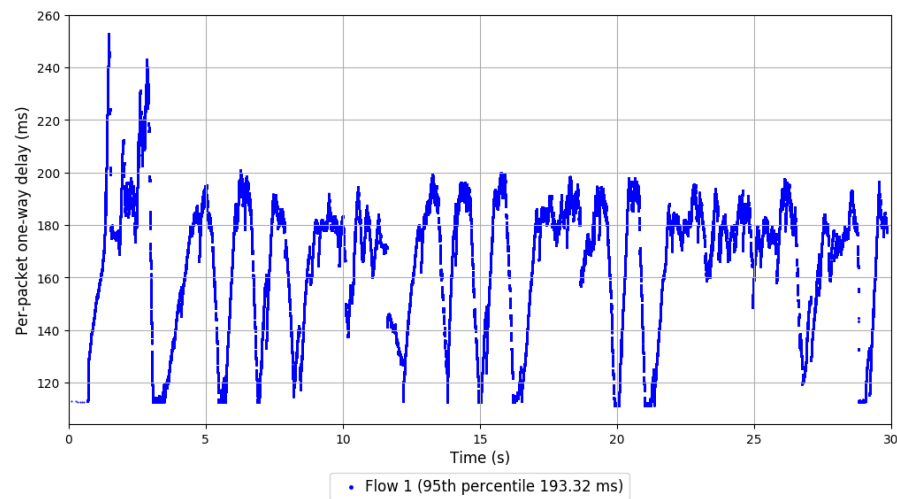
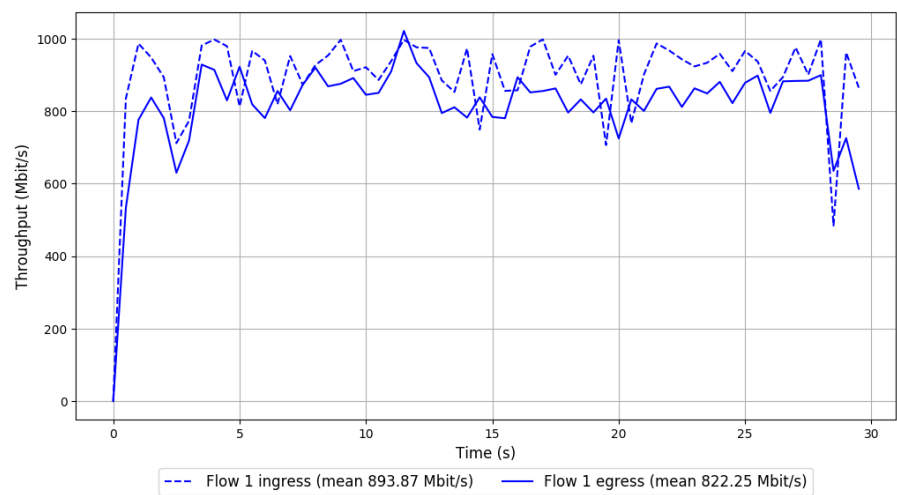
-- Flow 1:

Average throughput: 822.25 Mbit/s

95th percentile per-packet one-way delay: 193.316 ms

Loss rate: 8.70%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-26 20:20:47

End at: 2018-03-26 20:21:17

Below is generated by plot.py at 2018-03-27 01:45:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.00 Mbit/s

95th percentile per-packet one-way delay: 198.870 ms

Loss rate: 10.65%

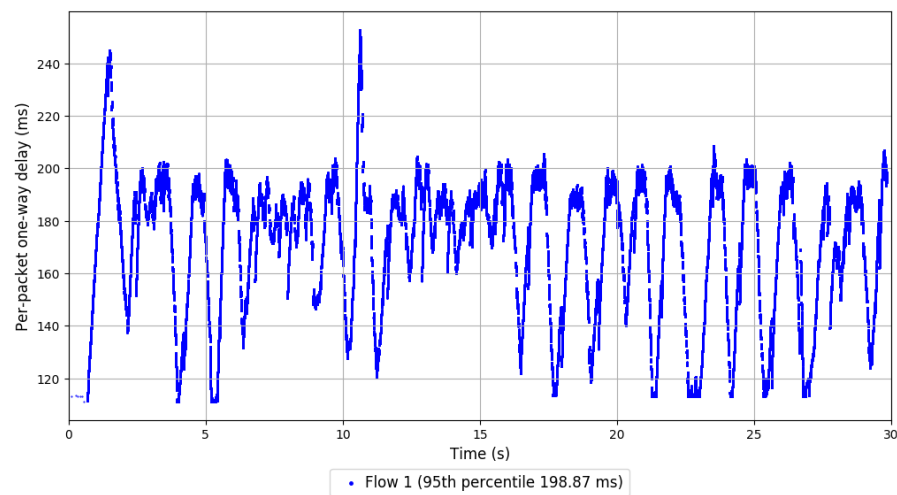
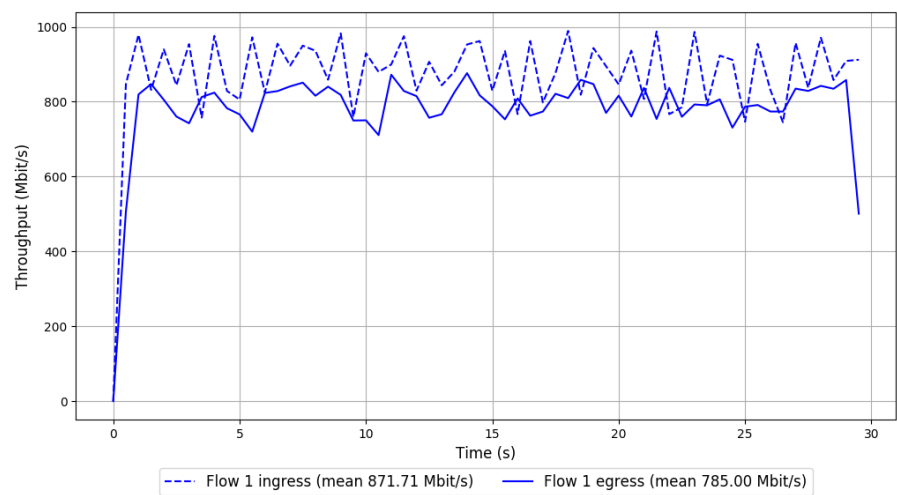
-- Flow 1:

Average throughput: 785.00 Mbit/s

95th percentile per-packet one-way delay: 198.870 ms

Loss rate: 10.65%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-26 20:36:11

End at: 2018-03-26 20:36:41

Below is generated by plot.py at 2018-03-27 01:45:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 820.24 Mbit/s

95th percentile per-packet one-way delay: 197.543 ms

Loss rate: 8.84%

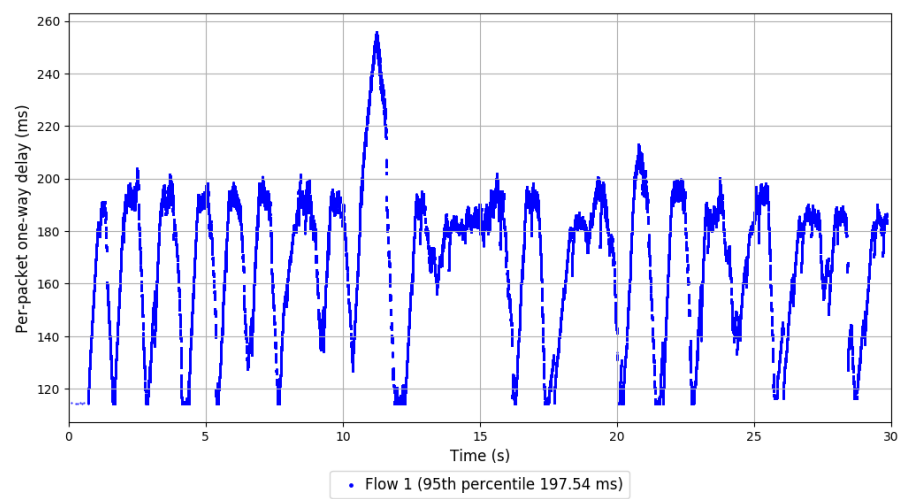
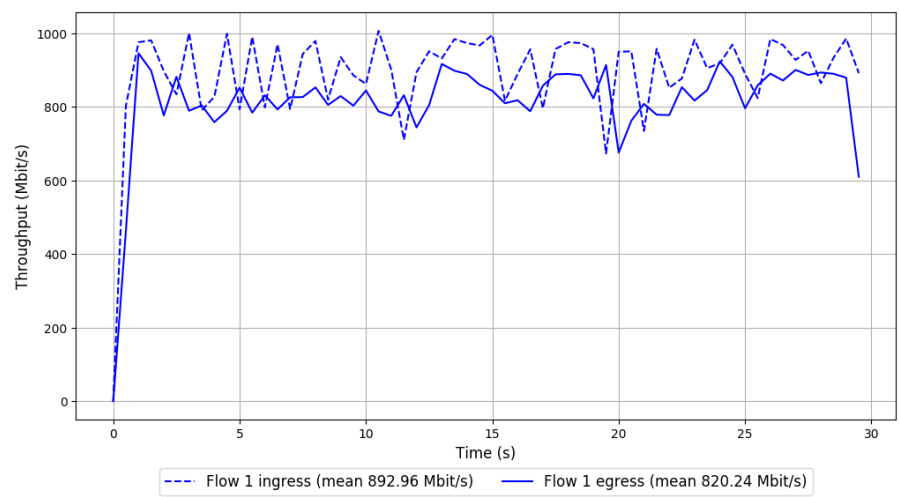
-- Flow 1:

Average throughput: 820.24 Mbit/s

95th percentile per-packet one-way delay: 197.543 ms

Loss rate: 8.84%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-26 20:51:32

End at: 2018-03-26 20:52:02

Below is generated by plot.py at 2018-03-27 01:45:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.17 Mbit/s

95th percentile per-packet one-way delay: 223.166 ms

Loss rate: 10.28%

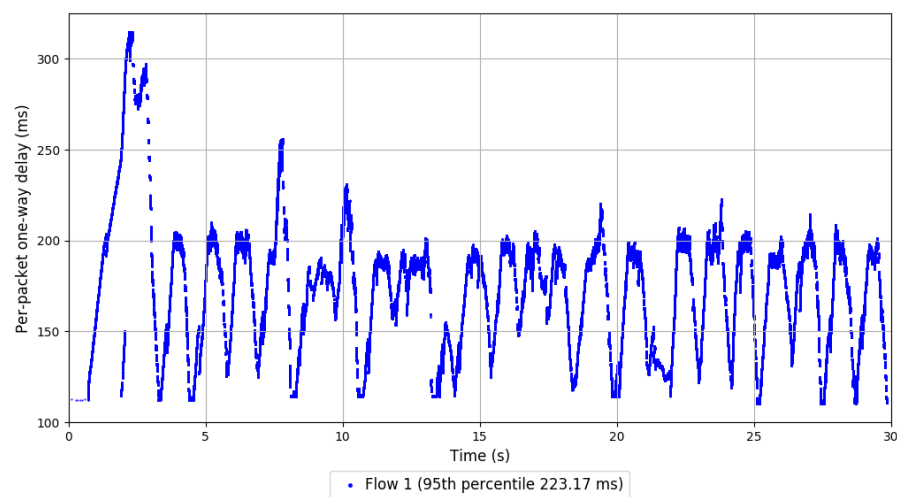
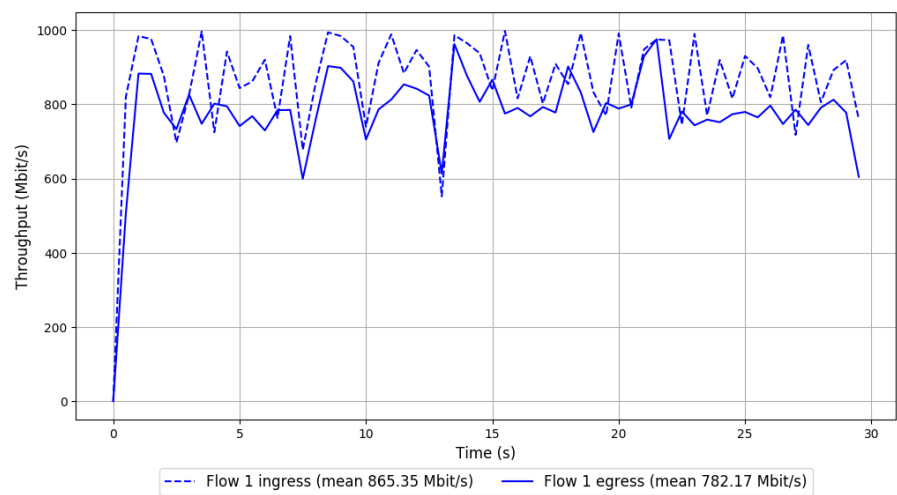
-- Flow 1:

Average throughput: 782.17 Mbit/s

95th percentile per-packet one-way delay: 223.166 ms

Loss rate: 10.28%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-26 21:06:54

End at: 2018-03-26 21:07:24

Below is generated by plot.py at 2018-03-27 01:45:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 775.22 Mbit/s

95th percentile per-packet one-way delay: 201.978 ms

Loss rate: 10.80%

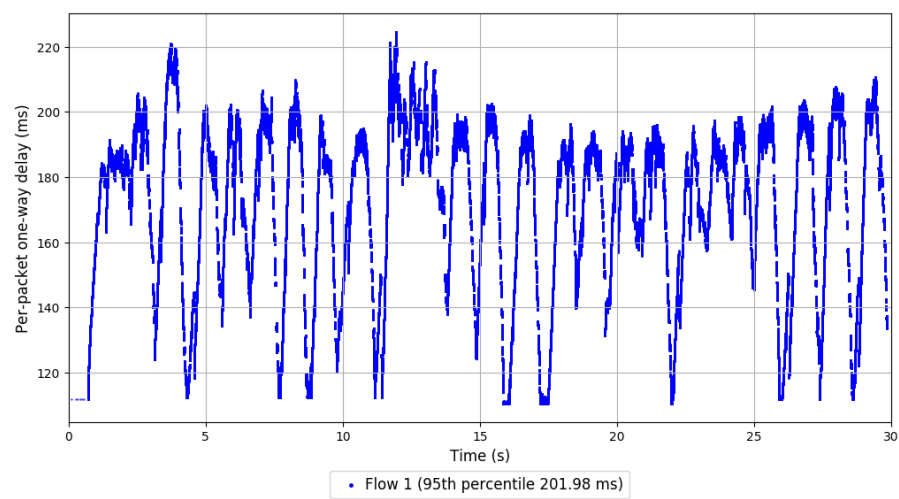
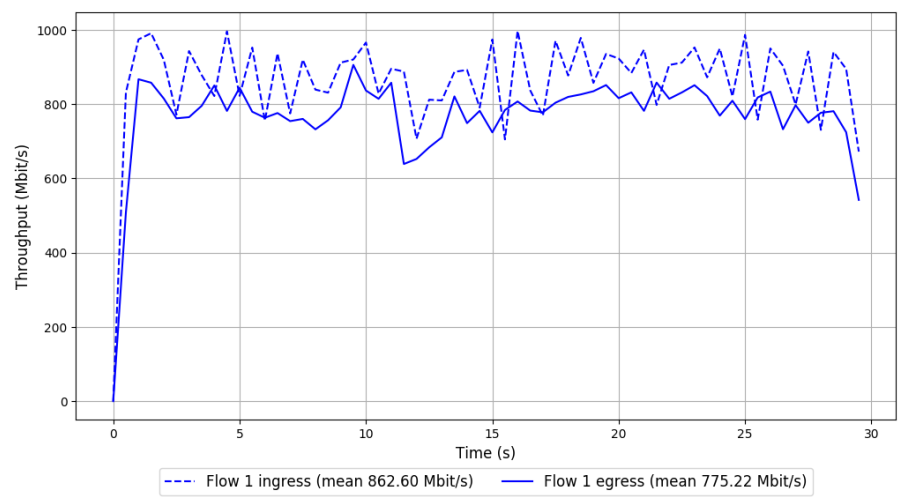
-- Flow 1:

Average throughput: 775.22 Mbit/s

95th percentile per-packet one-way delay: 201.978 ms

Loss rate: 10.80%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-26 21:22:16

End at: 2018-03-26 21:22:46

Below is generated by plot.py at 2018-03-27 01:46:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 766.11 Mbit/s

95th percentile per-packet one-way delay: 265.900 ms

Loss rate: 9.68%

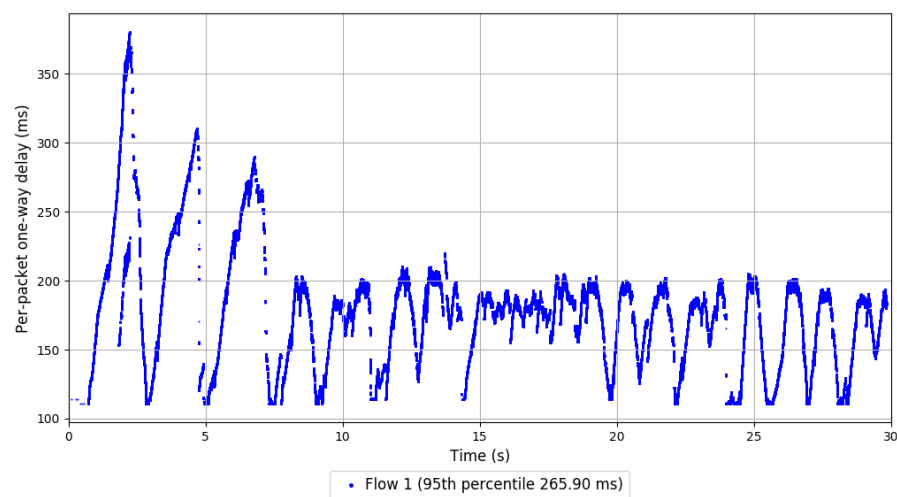
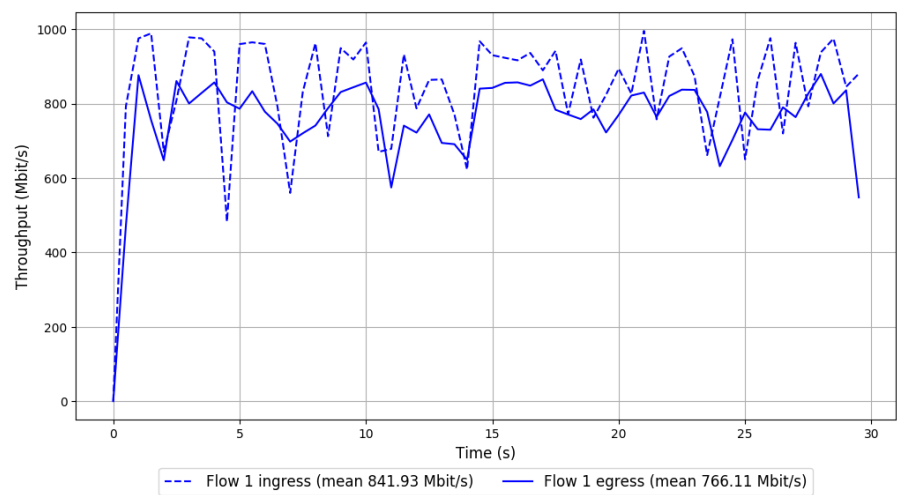
-- Flow 1:

Average throughput: 766.11 Mbit/s

95th percentile per-packet one-way delay: 265.900 ms

Loss rate: 9.68%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-26 21:37:39

End at: 2018-03-26 21:38:09

Below is generated by plot.py at 2018-03-27 01:46:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.62 Mbit/s

95th percentile per-packet one-way delay: 286.608 ms

Loss rate: 9.35%

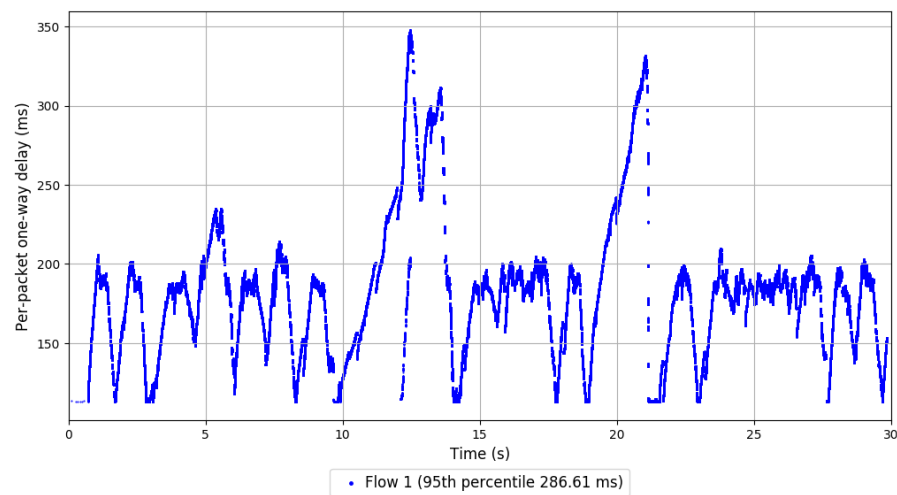
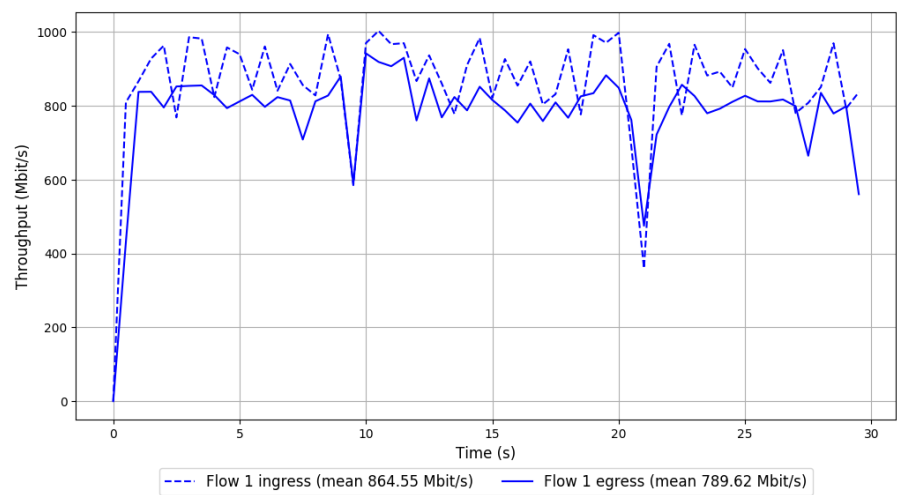
-- Flow 1:

Average throughput: 789.62 Mbit/s

95th percentile per-packet one-way delay: 286.608 ms

Loss rate: 9.35%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-26 21:53:04

End at: 2018-03-26 21:53:34

Below is generated by plot.py at 2018-03-27 02:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 801.87 Mbit/s

95th percentile per-packet one-way delay: 200.404 ms

Loss rate: 9.43%

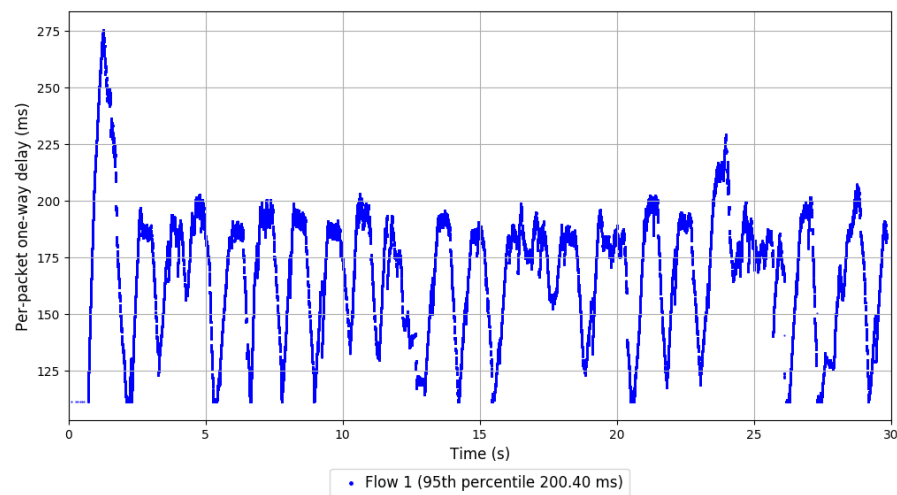
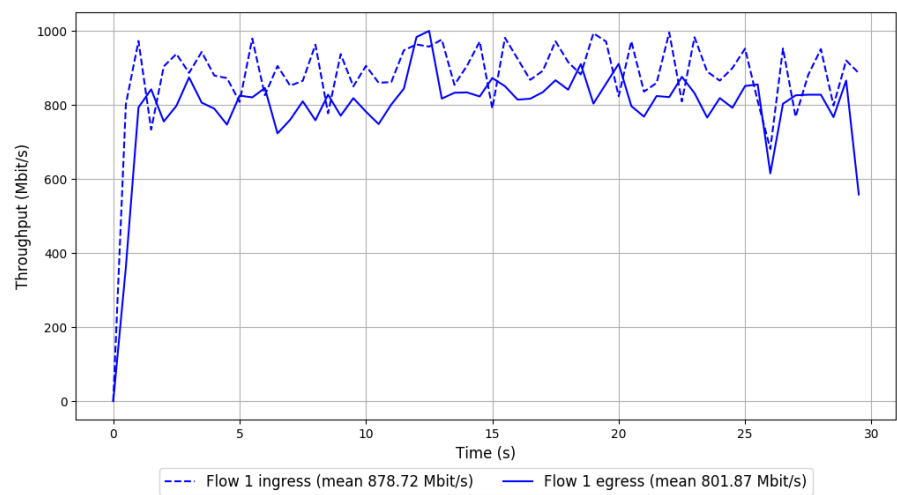
-- Flow 1:

Average throughput: 801.87 Mbit/s

95th percentile per-packet one-way delay: 200.404 ms

Loss rate: 9.43%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-26 22:08:40

End at: 2018-03-26 22:09:10

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 803.24 Mbit/s

95th percentile per-packet one-way delay: 196.278 ms

Loss rate: 9.08%

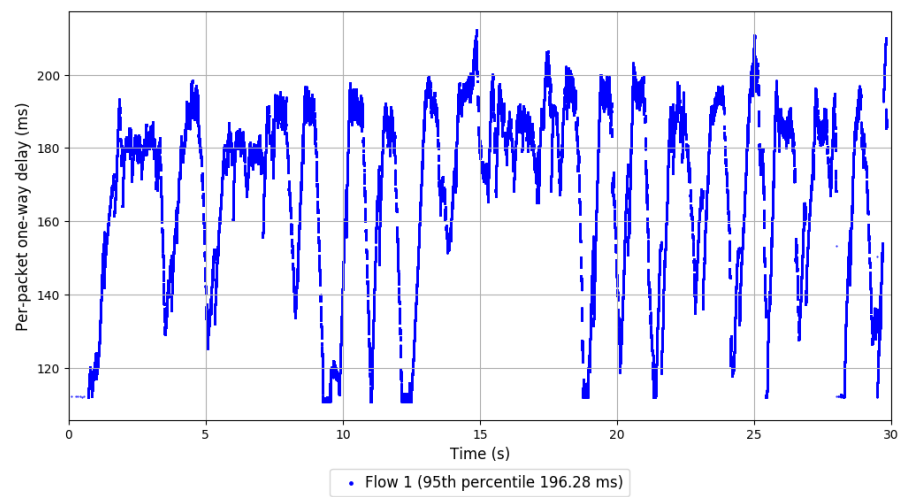
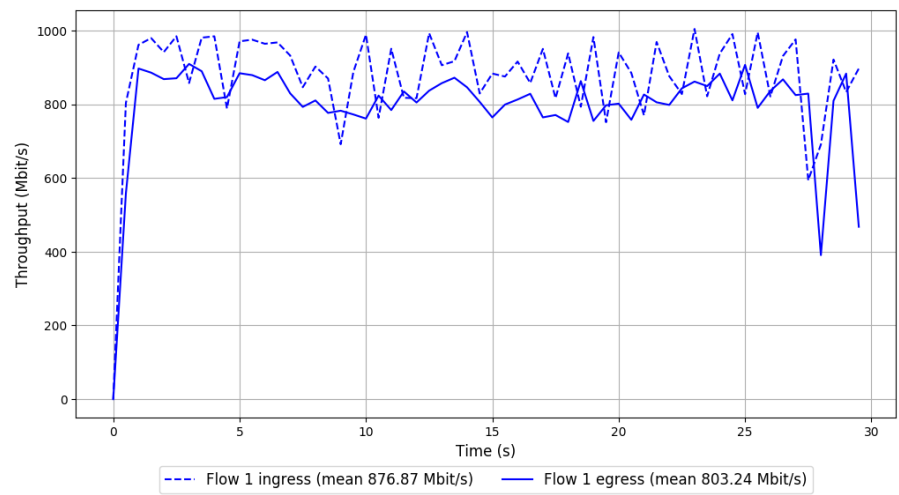
-- Flow 1:

Average throughput: 803.24 Mbit/s

95th percentile per-packet one-way delay: 196.278 ms

Loss rate: 9.08%

Run 10: Report of FillP — Data Link

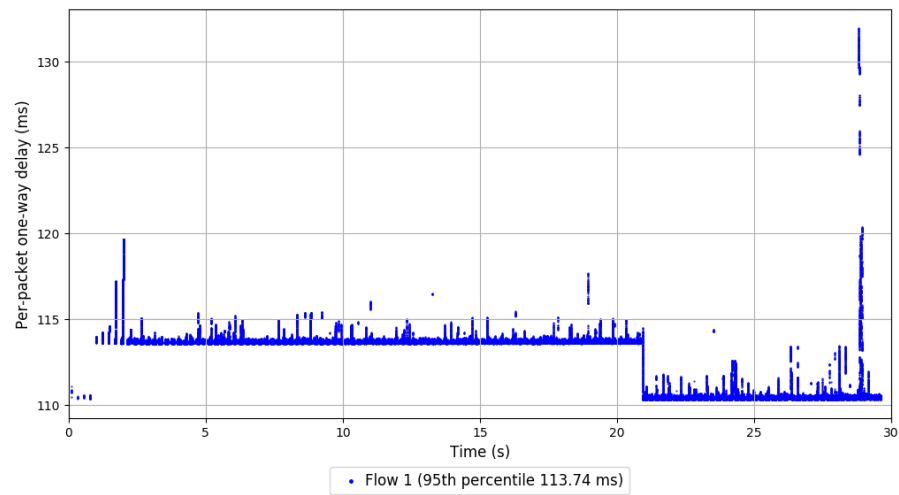
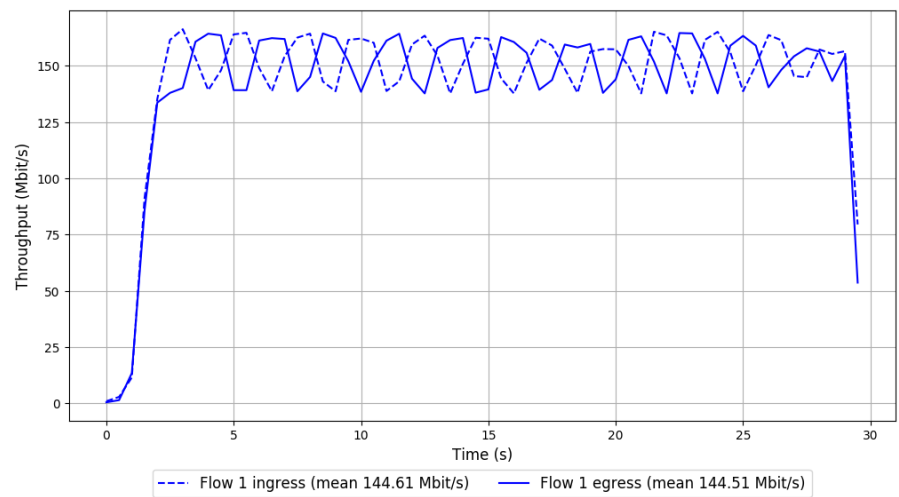


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-26 19:52:06
End at: 2018-03-26 19:52:36

# Below is generated by plot.py at 2018-03-27 02:00:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.51 Mbit/s
95th percentile per-packet one-way delay: 113.737 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 144.51 Mbit/s
95th percentile per-packet one-way delay: 113.737 ms
Loss rate: 0.82%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-26 20:07:43

End at: 2018-03-26 20:08:13

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.95 Mbit/s

95th percentile per-packet one-way delay: 113.655 ms

Loss rate: 0.84%

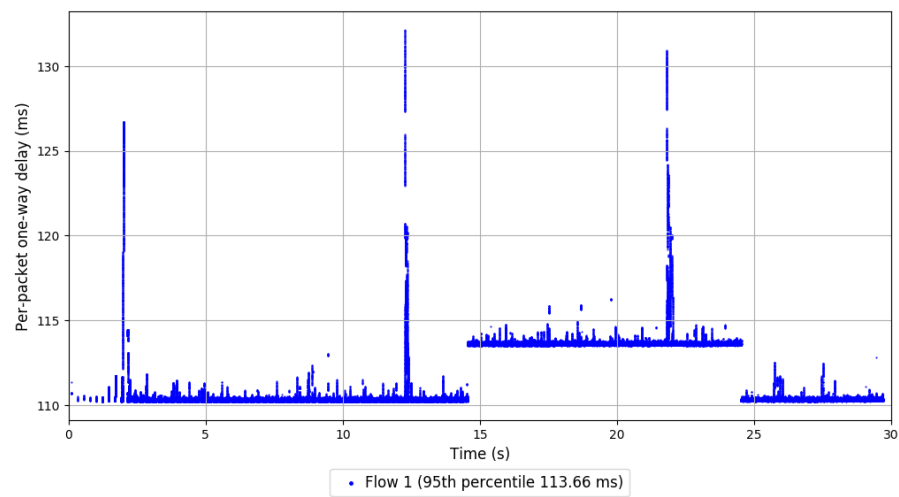
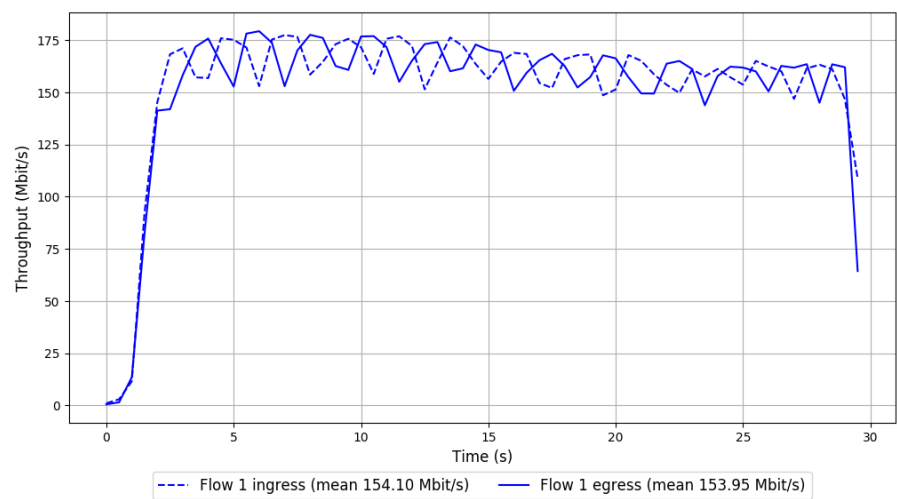
-- Flow 1:

Average throughput: 153.95 Mbit/s

95th percentile per-packet one-way delay: 113.655 ms

Loss rate: 0.84%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-26 20:23:01

End at: 2018-03-26 20:23:31

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.65 Mbit/s

95th percentile per-packet one-way delay: 113.795 ms

Loss rate: 0.84%

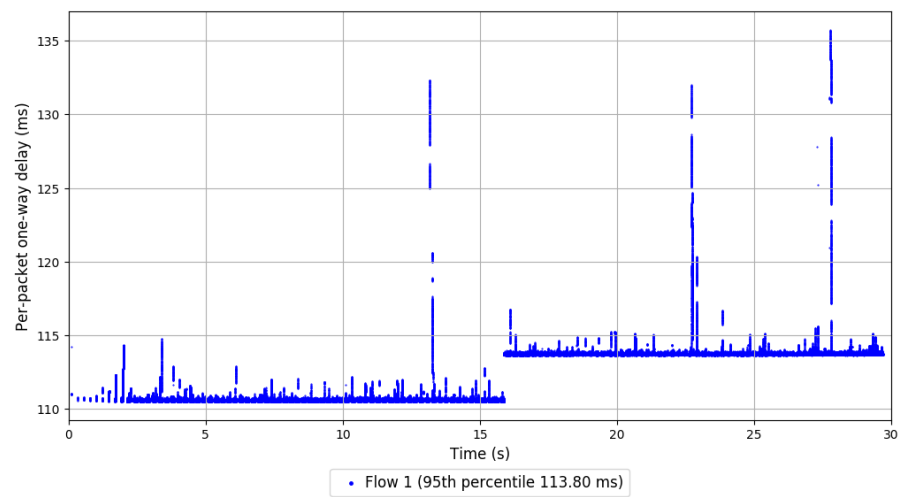
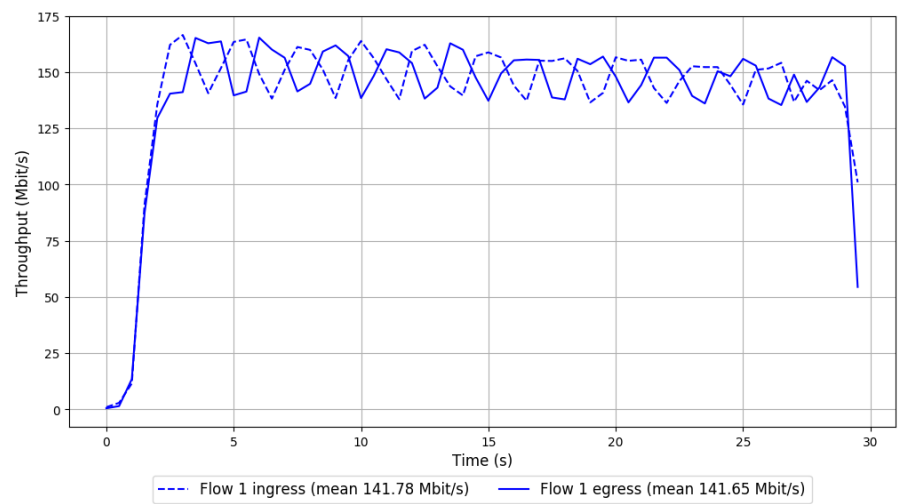
-- Flow 1:

Average throughput: 141.65 Mbit/s

95th percentile per-packet one-way delay: 113.795 ms

Loss rate: 0.84%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-26 20:38:27

End at: 2018-03-26 20:38:57

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.43 Mbit/s

95th percentile per-packet one-way delay: 114.583 ms

Loss rate: 0.80%

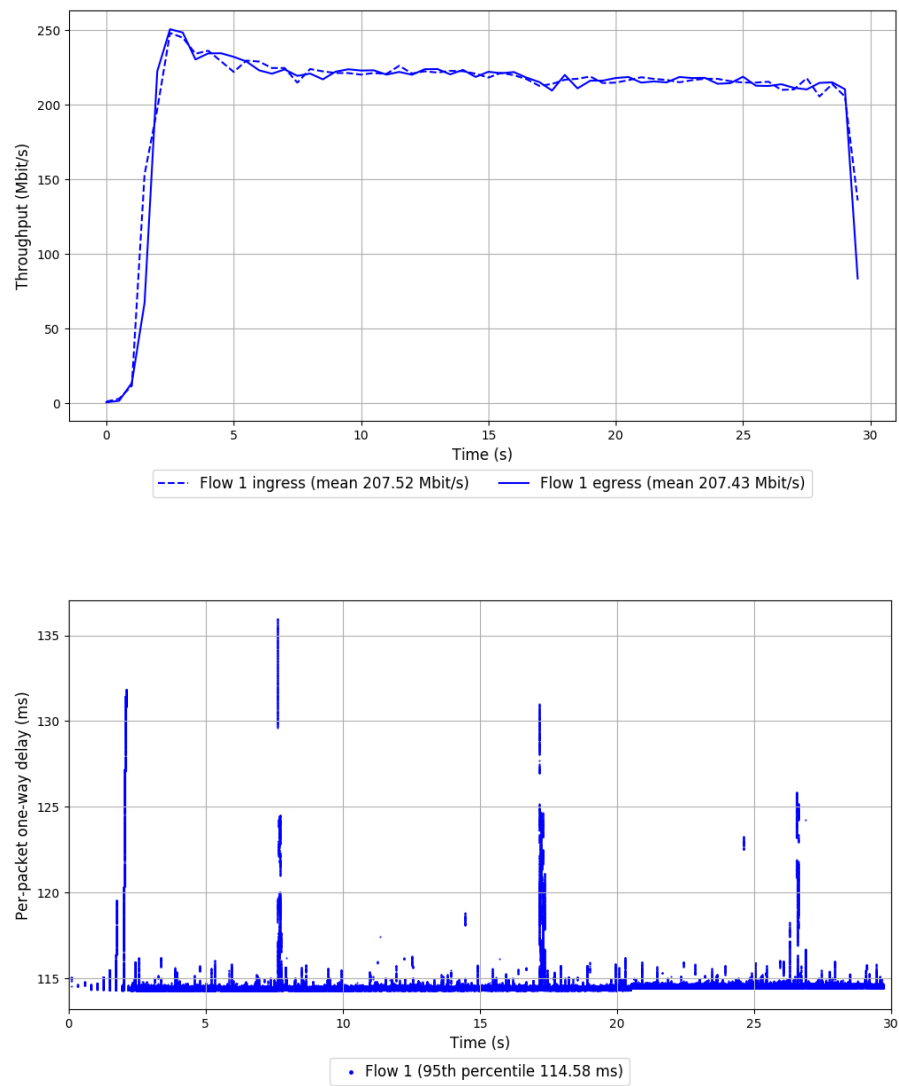
-- Flow 1:

Average throughput: 207.43 Mbit/s

95th percentile per-packet one-way delay: 114.583 ms

Loss rate: 0.80%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-26 20:53:45

End at: 2018-03-26 20:54:15

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.94 Mbit/s

95th percentile per-packet one-way delay: 113.978 ms

Loss rate: 0.80%

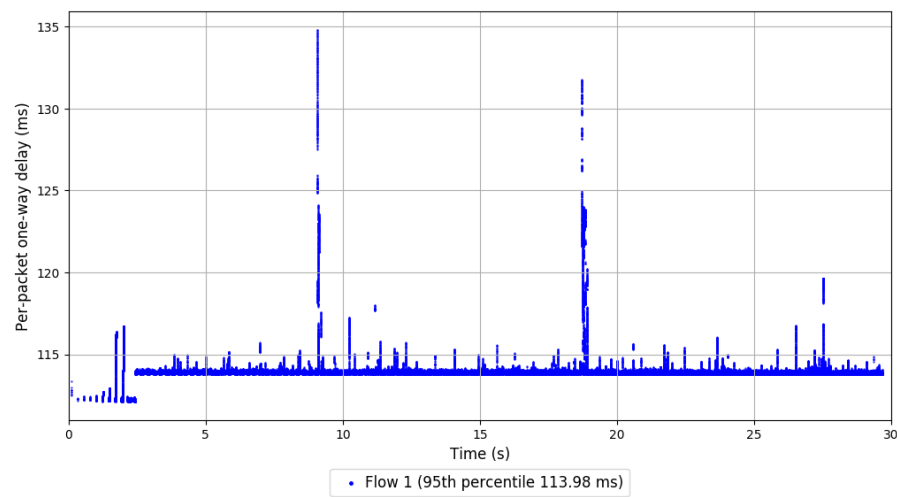
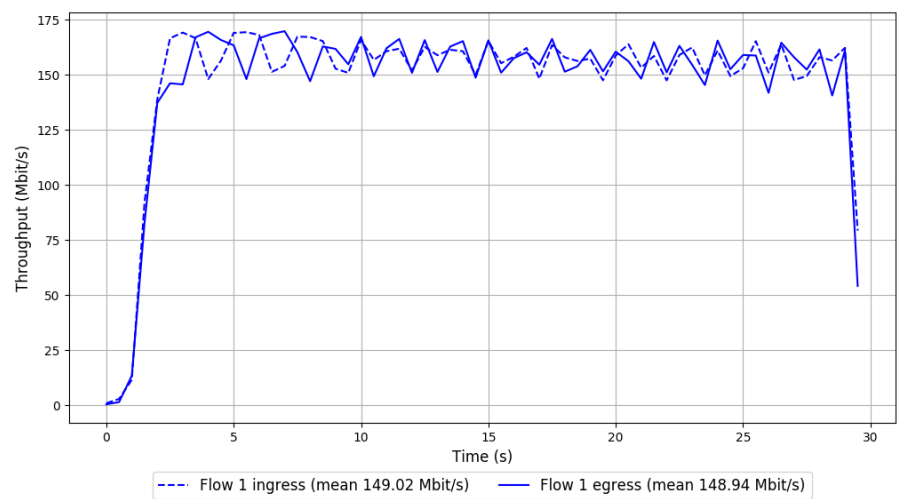
-- Flow 1:

Average throughput: 148.94 Mbit/s

95th percentile per-packet one-way delay: 113.978 ms

Loss rate: 0.80%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-26 21:09:08

End at: 2018-03-26 21:09:38

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.05 Mbit/s

95th percentile per-packet one-way delay: 113.823 ms

Loss rate: 0.82%

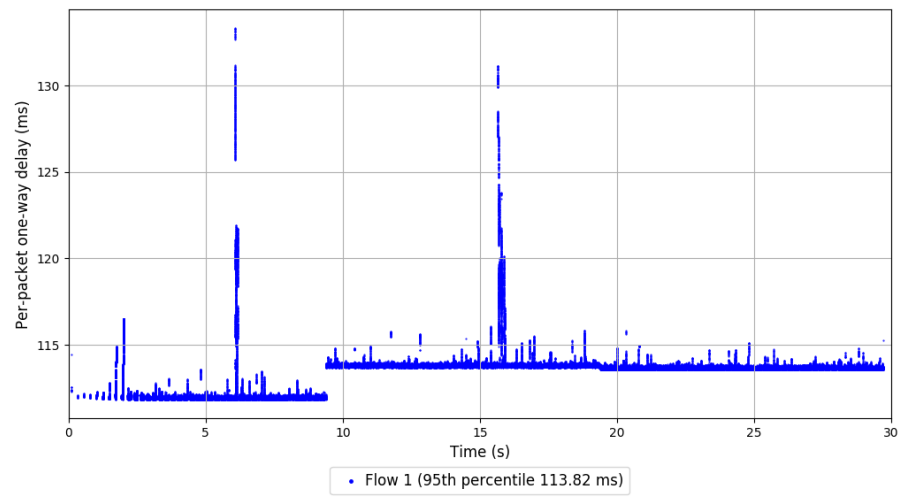
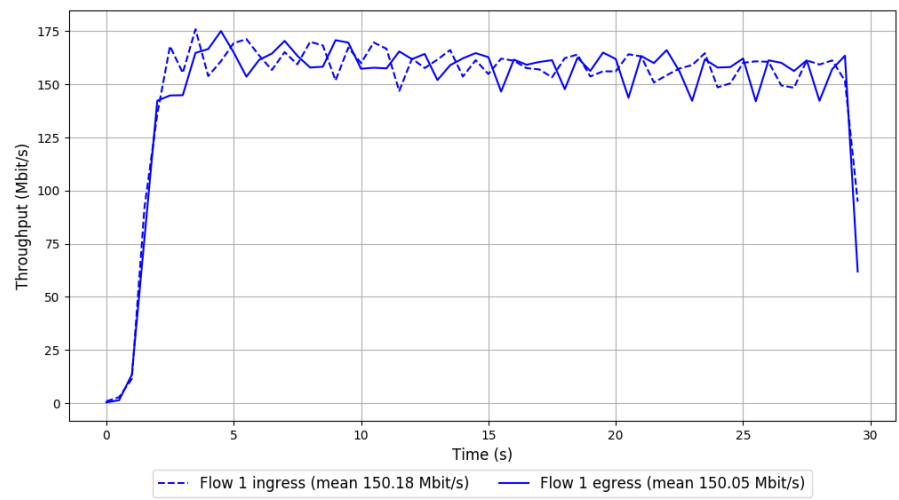
-- Flow 1:

Average throughput: 150.05 Mbit/s

95th percentile per-packet one-way delay: 113.823 ms

Loss rate: 0.82%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-26 21:24:30

End at: 2018-03-26 21:25:00

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.28 Mbit/s

95th percentile per-packet one-way delay: 113.744 ms

Loss rate: 0.87%

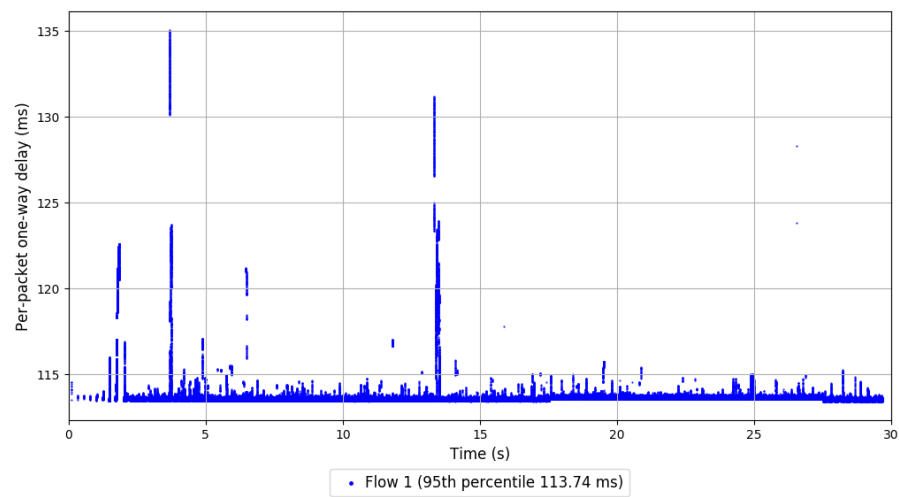
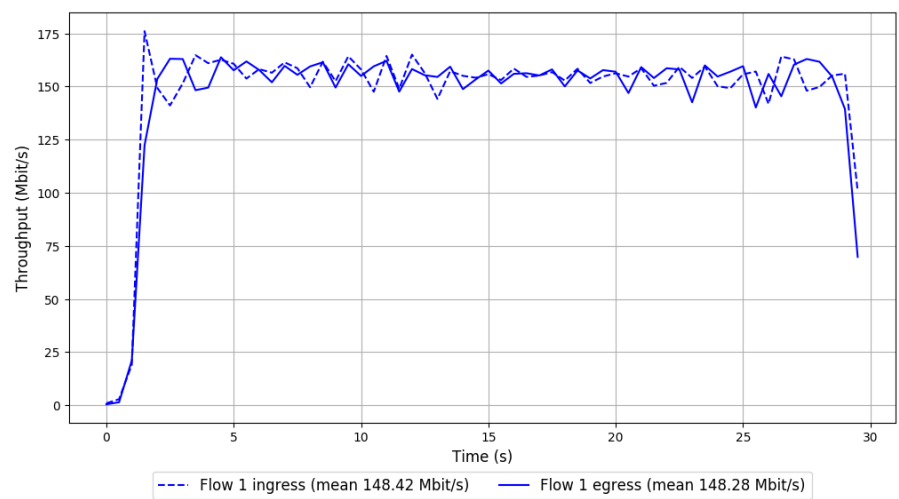
-- Flow 1:

Average throughput: 148.28 Mbit/s

95th percentile per-packet one-way delay: 113.744 ms

Loss rate: 0.87%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-26 21:39:52

End at: 2018-03-26 21:40:22

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.06 Mbit/s

95th percentile per-packet one-way delay: 113.124 ms

Loss rate: 0.76%

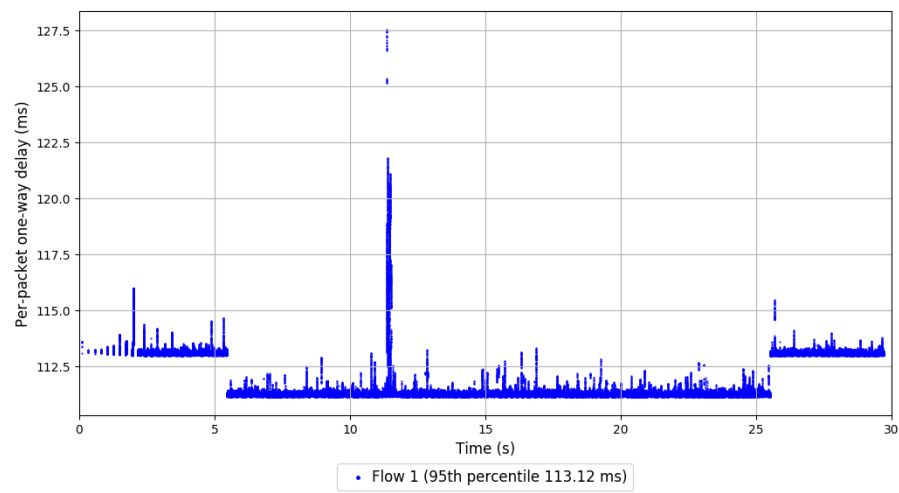
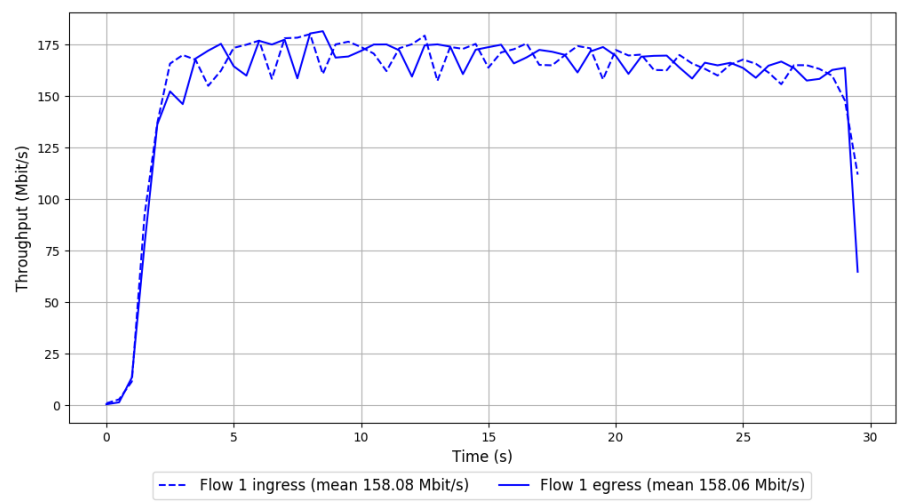
-- Flow 1:

Average throughput: 158.06 Mbit/s

95th percentile per-packet one-way delay: 113.124 ms

Loss rate: 0.76%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-26 21:55:19

End at: 2018-03-26 21:55:49

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.68 Mbit/s

95th percentile per-packet one-way delay: 111.389 ms

Loss rate: 0.76%

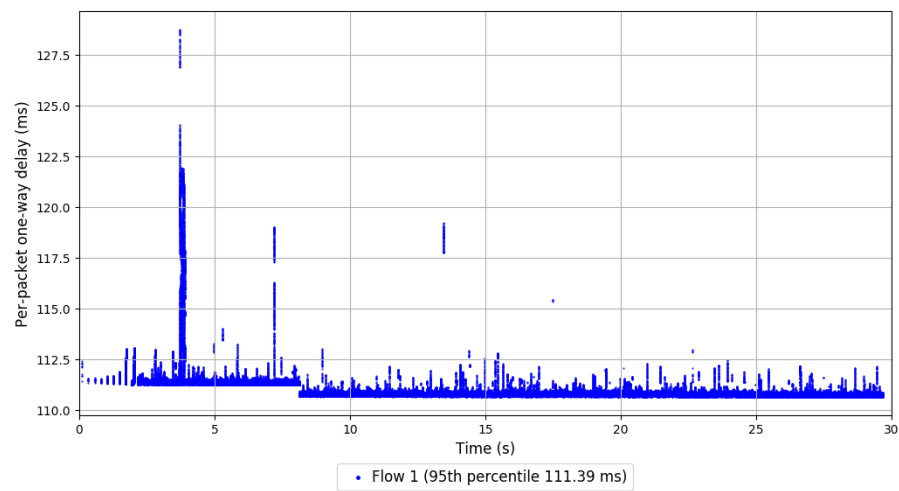
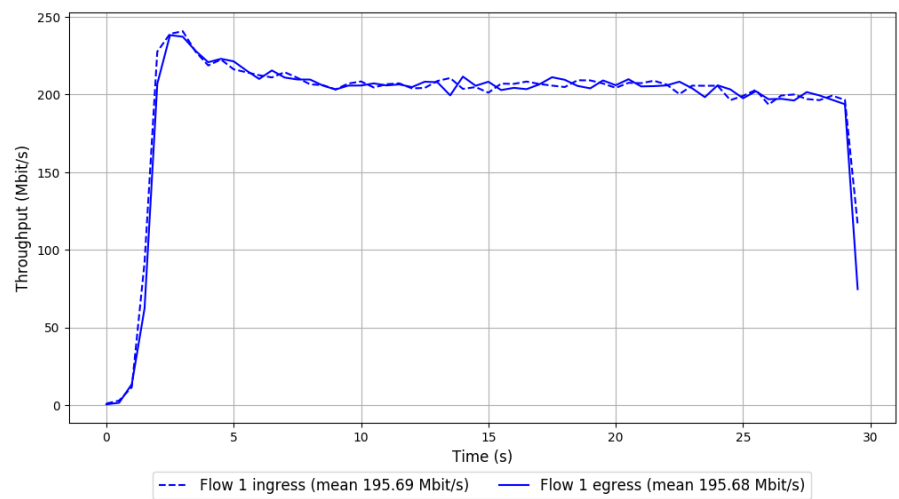
-- Flow 1:

Average throughput: 195.68 Mbit/s

95th percentile per-packet one-way delay: 111.389 ms

Loss rate: 0.76%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-26 22:10:54

End at: 2018-03-26 22:11:24

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.77 Mbit/s

95th percentile per-packet one-way delay: 112.286 ms

Loss rate: 0.74%

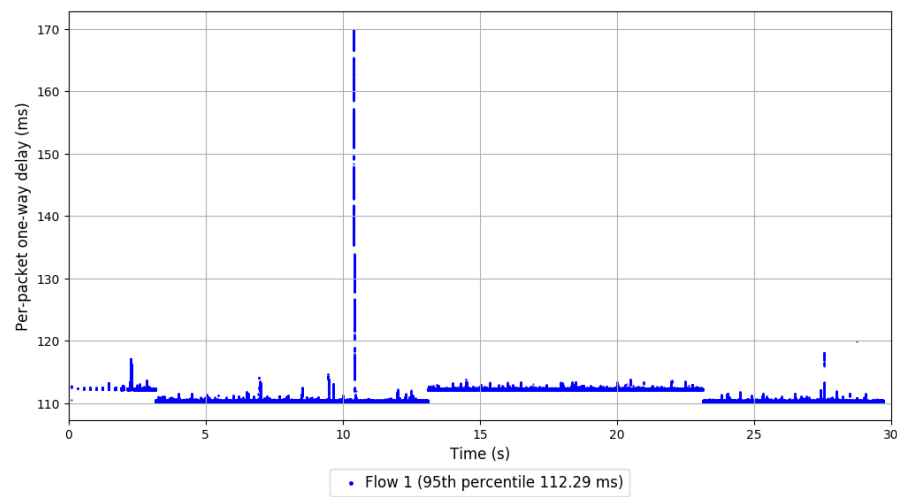
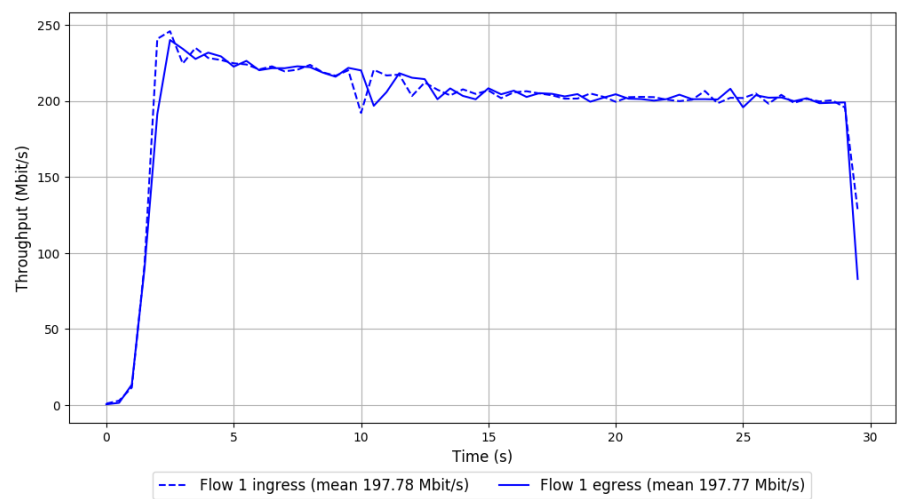
-- Flow 1:

Average throughput: 197.77 Mbit/s

95th percentile per-packet one-way delay: 112.286 ms

Loss rate: 0.74%

Run 10: Report of Indigo-1-32 — Data Link

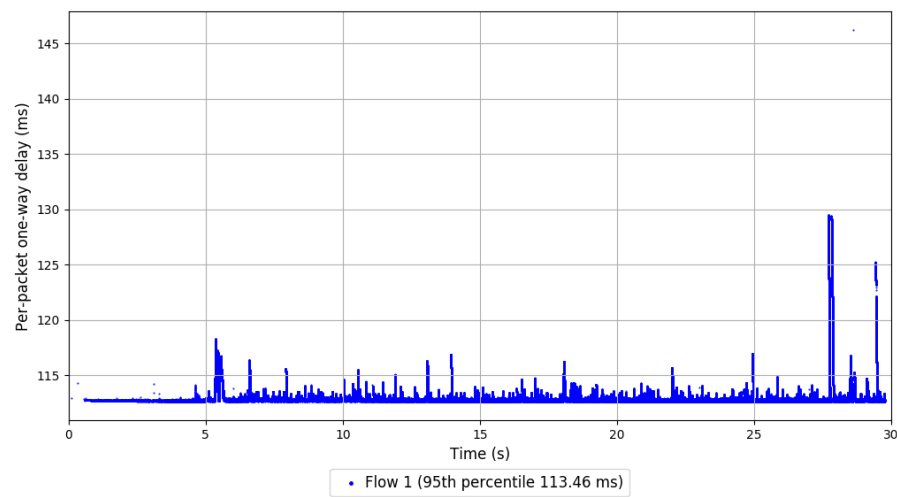
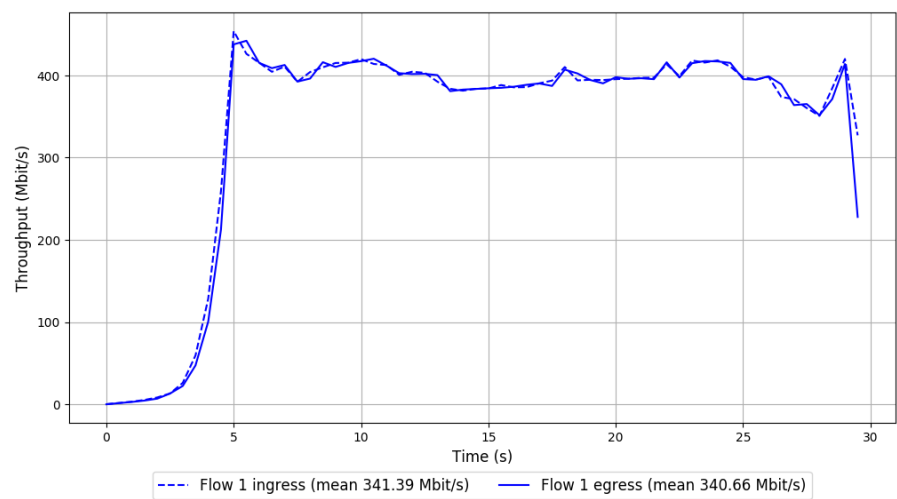


```
Run 1: Statistics of Vivace-latency

Start at: 2018-03-26 19:59:06
End at: 2018-03-26 19:59:36

# Below is generated by plot.py at 2018-03-27 02:00:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.66 Mbit/s
95th percentile per-packet one-way delay: 113.463 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 340.66 Mbit/s
95th percentile per-packet one-way delay: 113.463 ms
Loss rate: 0.96%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-26 20:14:27

End at: 2018-03-26 20:14:57

Below is generated by plot.py at 2018-03-27 02:00:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.14 Mbit/s

95th percentile per-packet one-way delay: 114.849 ms

Loss rate: 0.87%

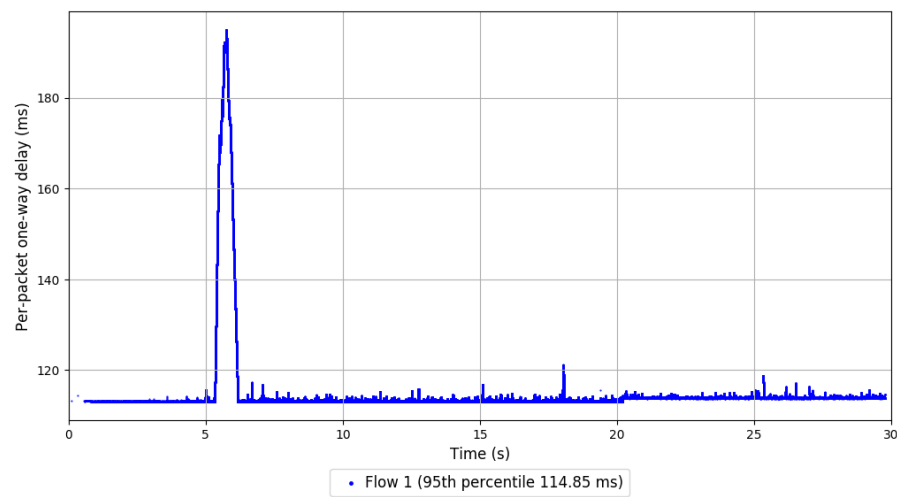
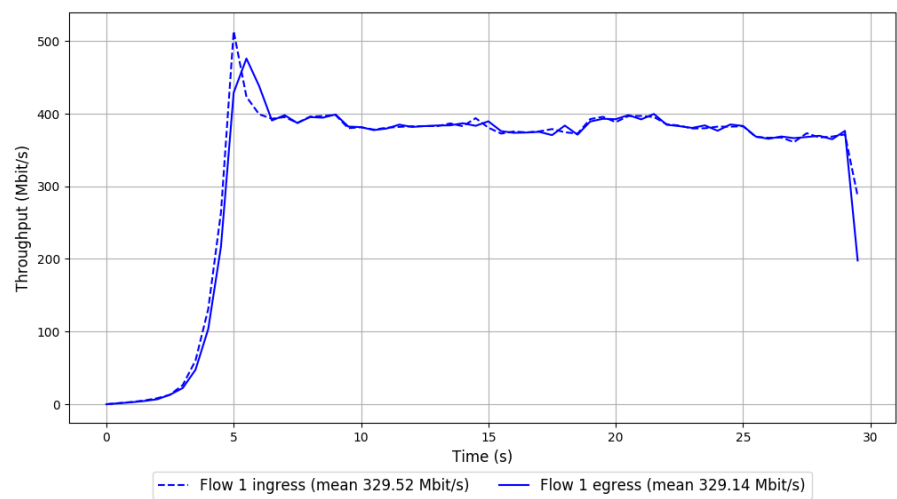
-- Flow 1:

Average throughput: 329.14 Mbit/s

95th percentile per-packet one-way delay: 114.849 ms

Loss rate: 0.87%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-26 20:29:49

End at: 2018-03-26 20:30:19

Below is generated by plot.py at 2018-03-27 02:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.20 Mbit/s

95th percentile per-packet one-way delay: 128.212 ms

Loss rate: 0.85%

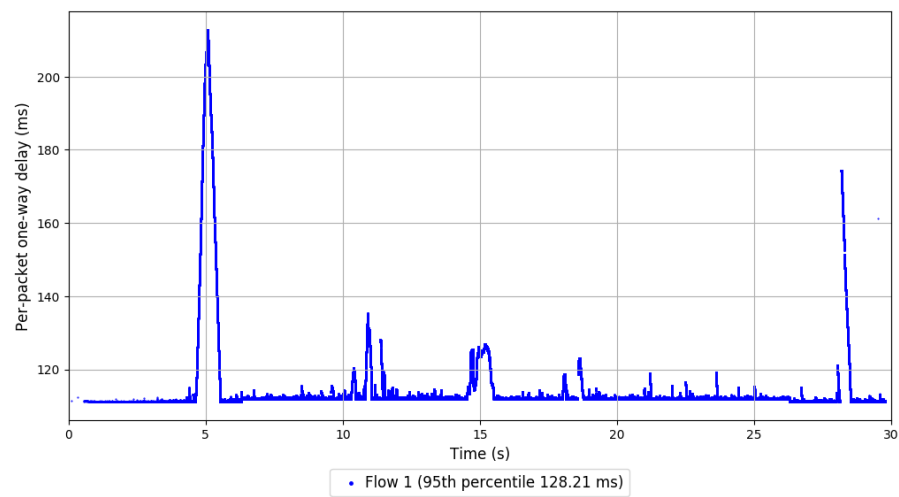
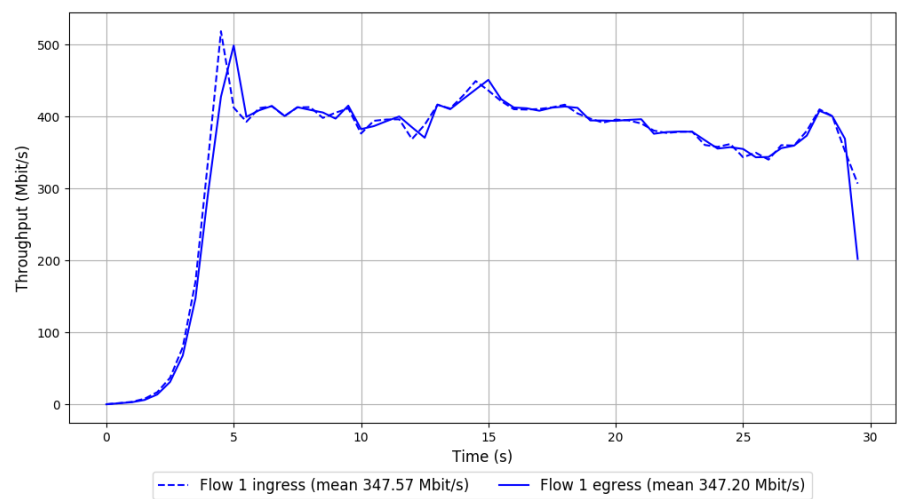
-- Flow 1:

Average throughput: 347.20 Mbit/s

95th percentile per-packet one-way delay: 128.212 ms

Loss rate: 0.85%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-26 20:45:16

End at: 2018-03-26 20:45:46

Below is generated by plot.py at 2018-03-27 02:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.70 Mbit/s

95th percentile per-packet one-way delay: 114.726 ms

Loss rate: 1.06%

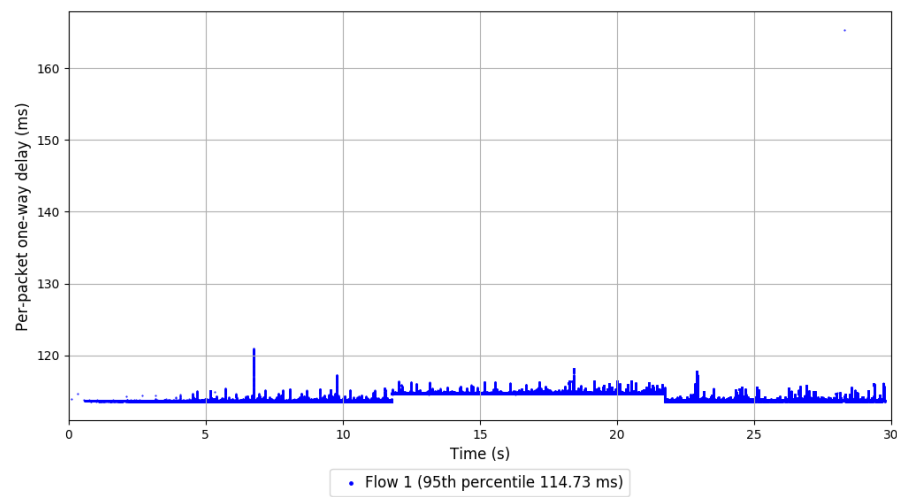
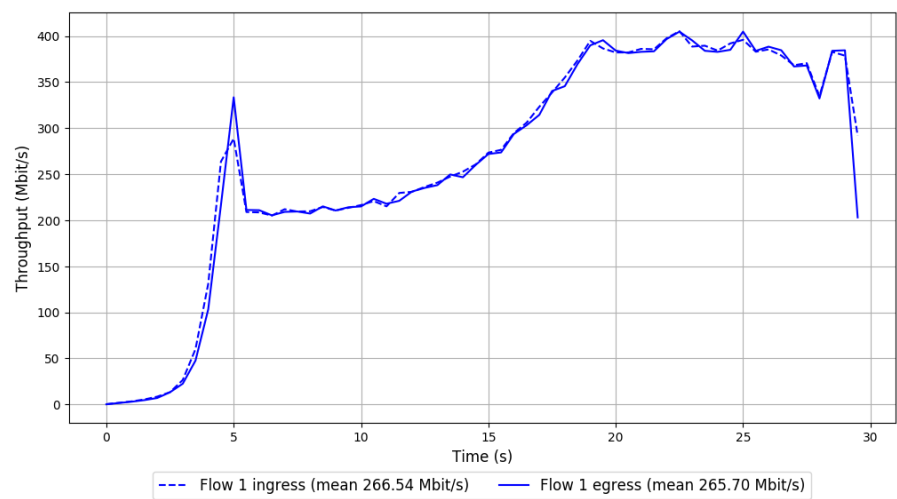
-- Flow 1:

Average throughput: 265.70 Mbit/s

95th percentile per-packet one-way delay: 114.726 ms

Loss rate: 1.06%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-26 21:00:46

End at: 2018-03-26 21:01:16

Below is generated by plot.py at 2018-03-27 02:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.75 Mbit/s

95th percentile per-packet one-way delay: 114.085 ms

Loss rate: 1.18%

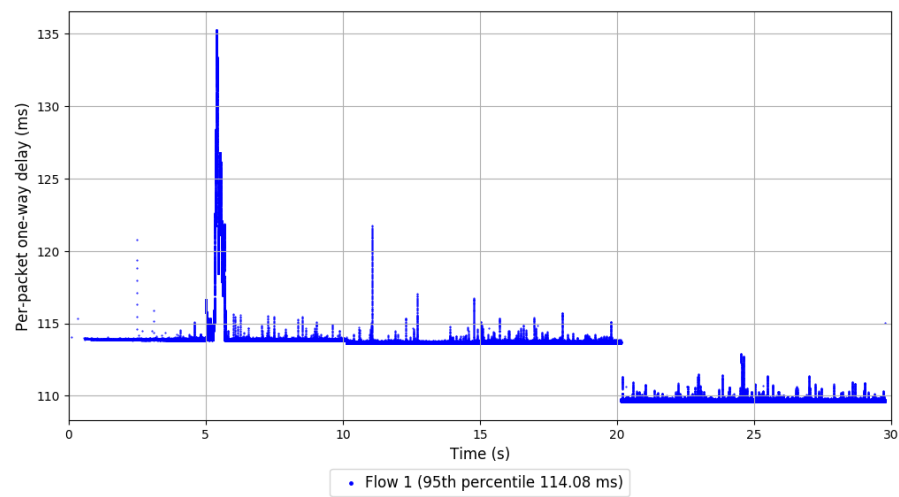
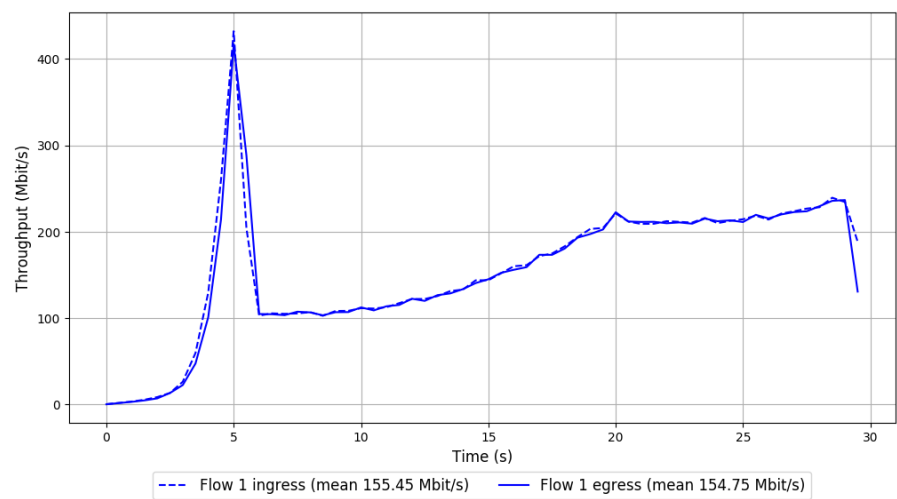
-- Flow 1:

Average throughput: 154.75 Mbit/s

95th percentile per-packet one-way delay: 114.085 ms

Loss rate: 1.18%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-26 21:15:59

End at: 2018-03-26 21:16:29

Below is generated by plot.py at 2018-03-27 02:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.34 Mbit/s

95th percentile per-packet one-way delay: 113.236 ms

Loss rate: 0.68%

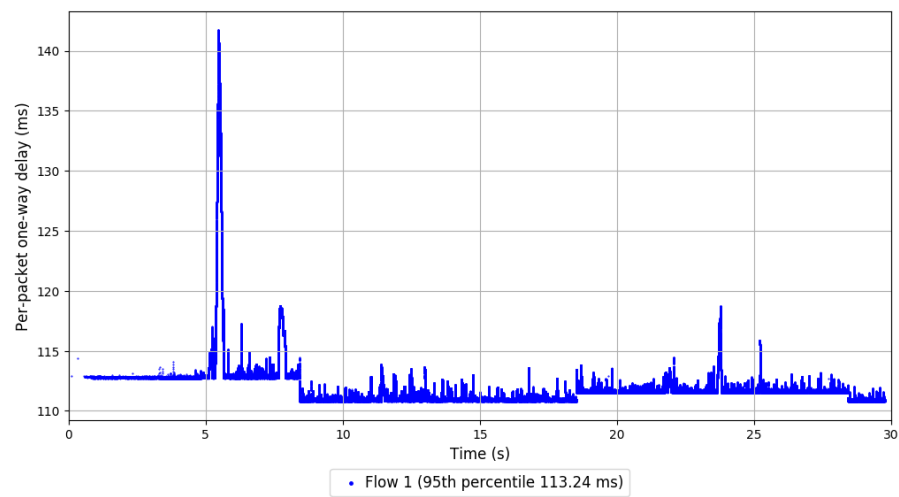
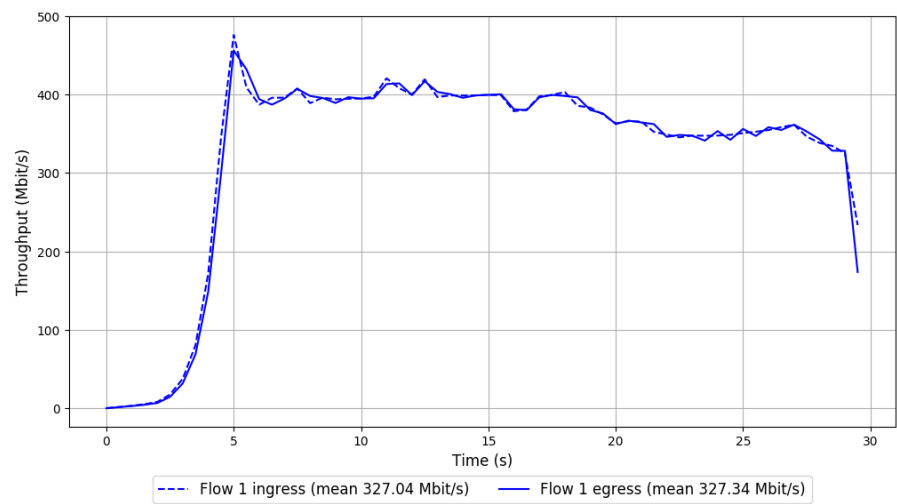
-- Flow 1:

Average throughput: 327.34 Mbit/s

95th percentile per-packet one-way delay: 113.236 ms

Loss rate: 0.68%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-26 21:31:20

End at: 2018-03-26 21:31:50

Below is generated by plot.py at 2018-03-27 02:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.58 Mbit/s

95th percentile per-packet one-way delay: 124.784 ms

Loss rate: 0.98%

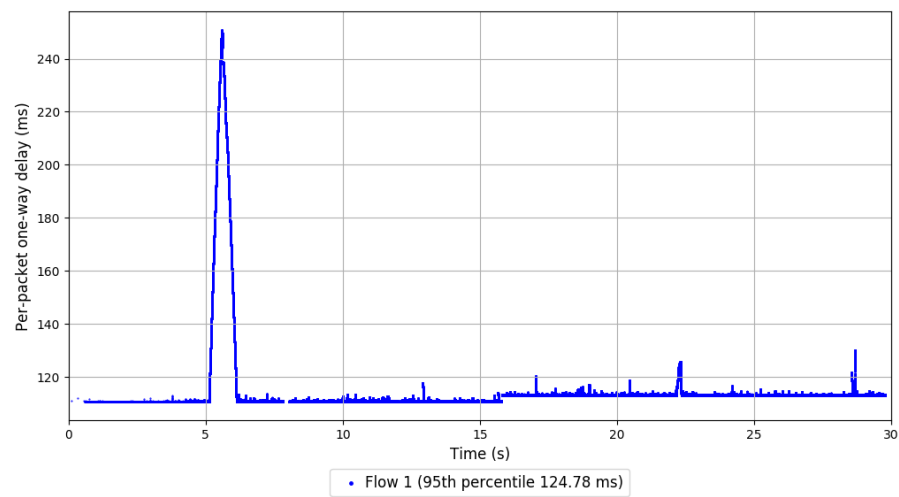
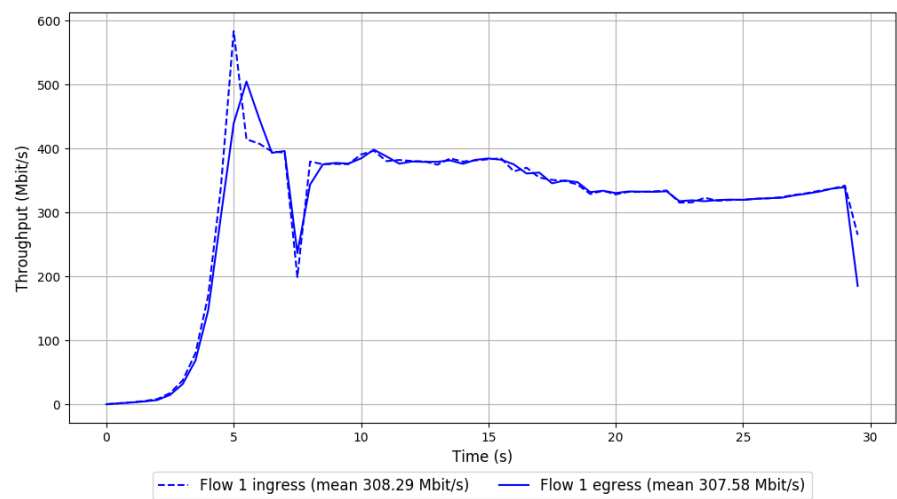
-- Flow 1:

Average throughput: 307.58 Mbit/s

95th percentile per-packet one-way delay: 124.784 ms

Loss rate: 0.98%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-26 21:46:43

End at: 2018-03-26 21:47:13

Below is generated by plot.py at 2018-03-27 02:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.48 Mbit/s

95th percentile per-packet one-way delay: 114.771 ms

Loss rate: 0.83%

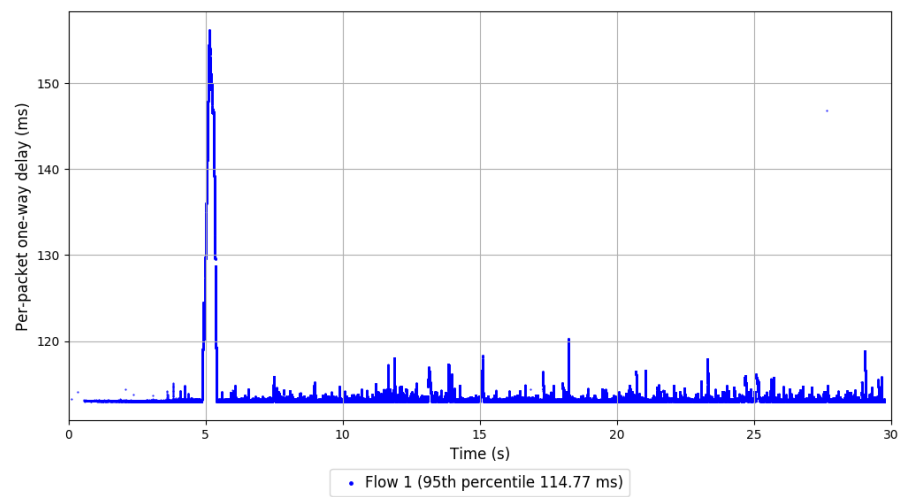
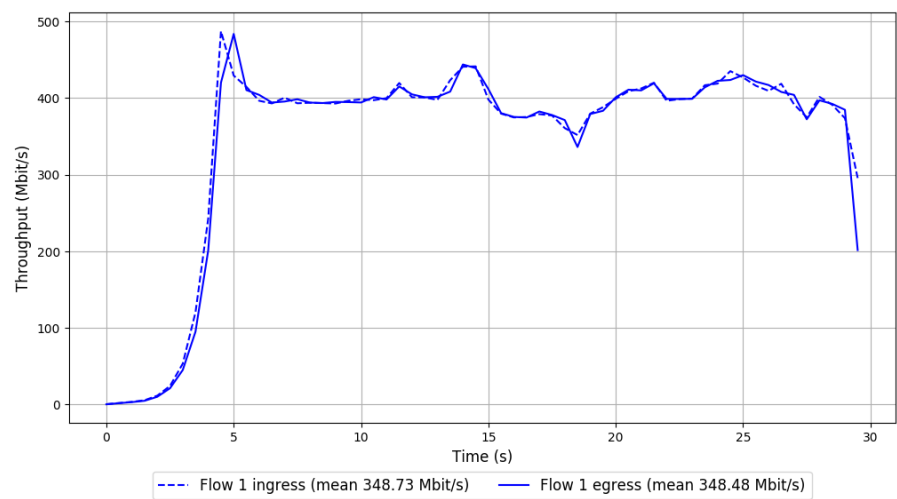
-- Flow 1:

Average throughput: 348.48 Mbit/s

95th percentile per-packet one-way delay: 114.771 ms

Loss rate: 0.83%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-26 22:02:22

End at: 2018-03-26 22:02:52

Below is generated by plot.py at 2018-03-27 02:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.15 Mbit/s

95th percentile per-packet one-way delay: 124.389 ms

Loss rate: 0.76%

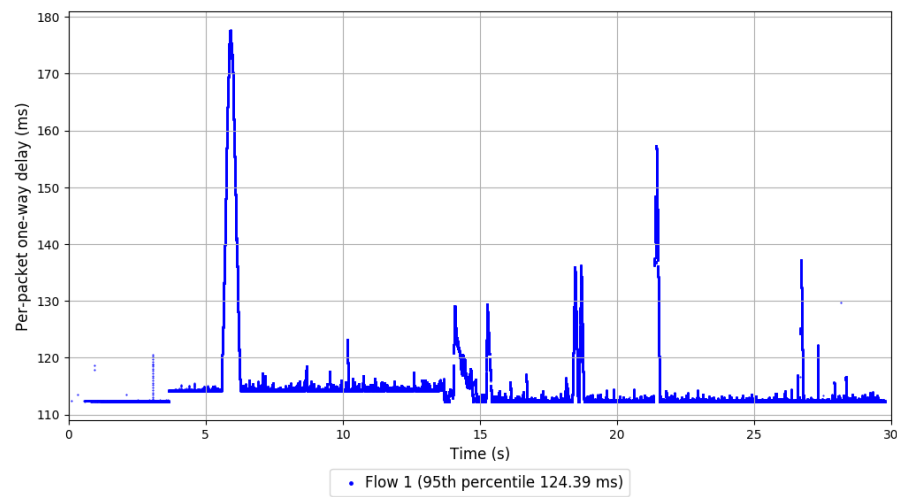
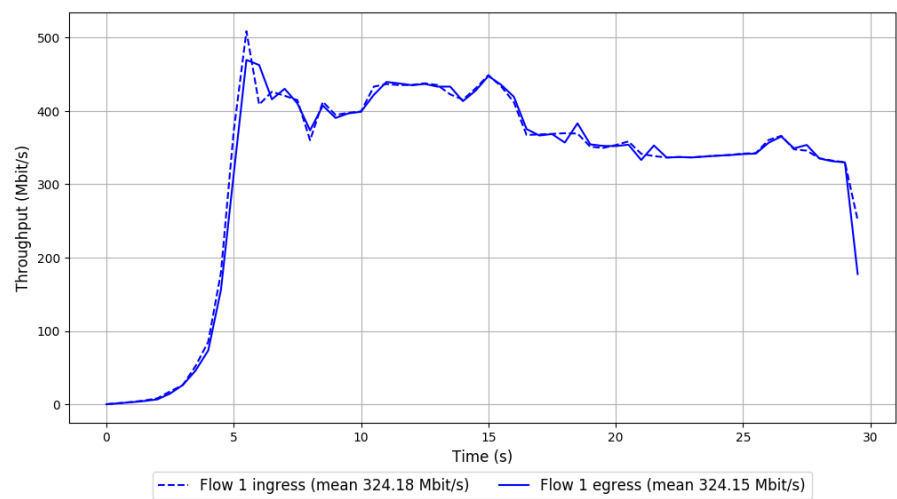
-- Flow 1:

Average throughput: 324.15 Mbit/s

95th percentile per-packet one-way delay: 124.389 ms

Loss rate: 0.76%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-26 22:17:46

End at: 2018-03-26 22:18:16

Below is generated by plot.py at 2018-03-27 02:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.14 Mbit/s

95th percentile per-packet one-way delay: 113.682 ms

Loss rate: 0.81%

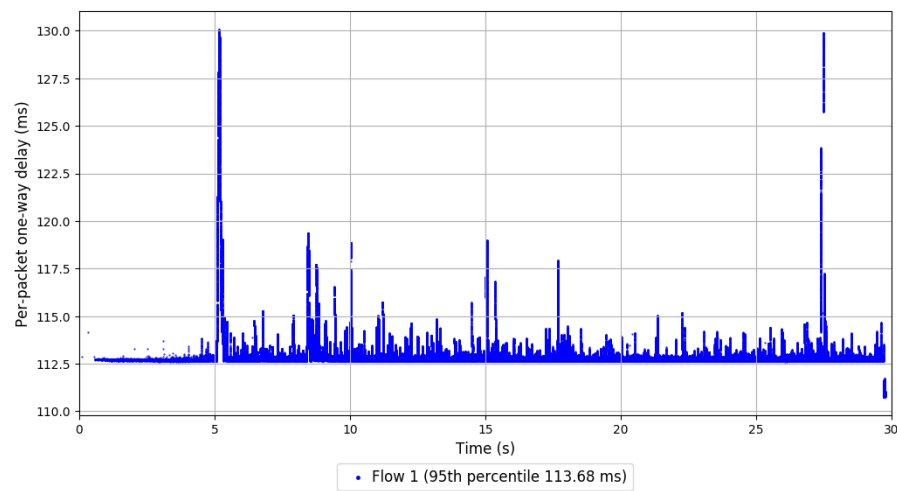
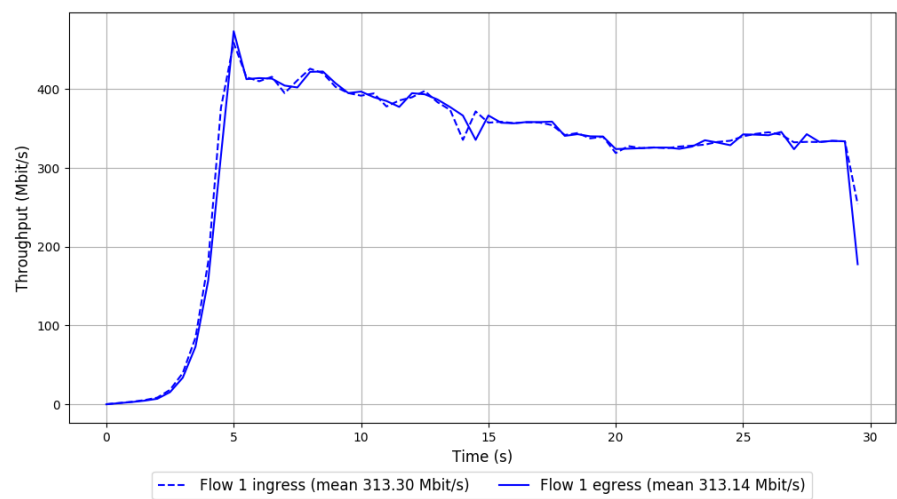
-- Flow 1:

Average throughput: 313.14 Mbit/s

95th percentile per-packet one-way delay: 113.682 ms

Loss rate: 0.81%

Run 10: Report of Vivace-latency — Data Link

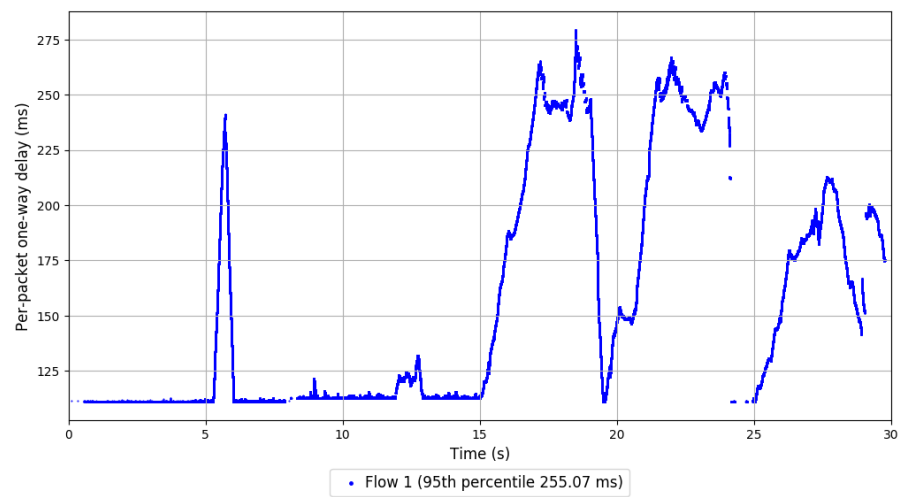
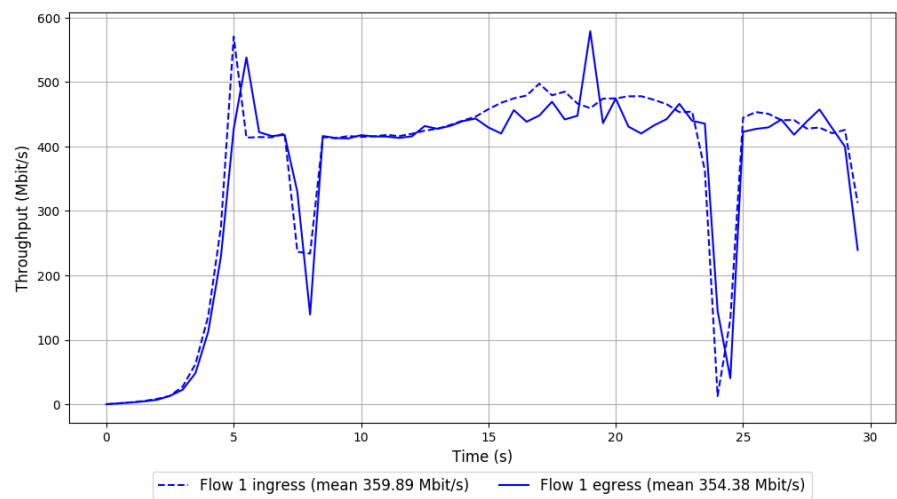


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-26 19:56:29
End at: 2018-03-26 19:56:59

# Below is generated by plot.py at 2018-03-27 02:02:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.38 Mbit/s
95th percentile per-packet one-way delay: 255.069 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 354.38 Mbit/s
95th percentile per-packet one-way delay: 255.069 ms
Loss rate: 2.26%
```

Run 1: Report of Vivace-loss — Data Link

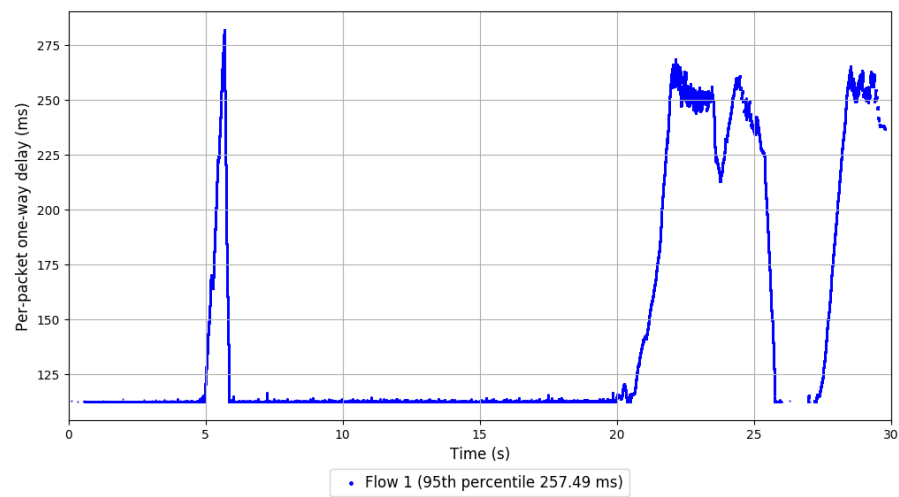
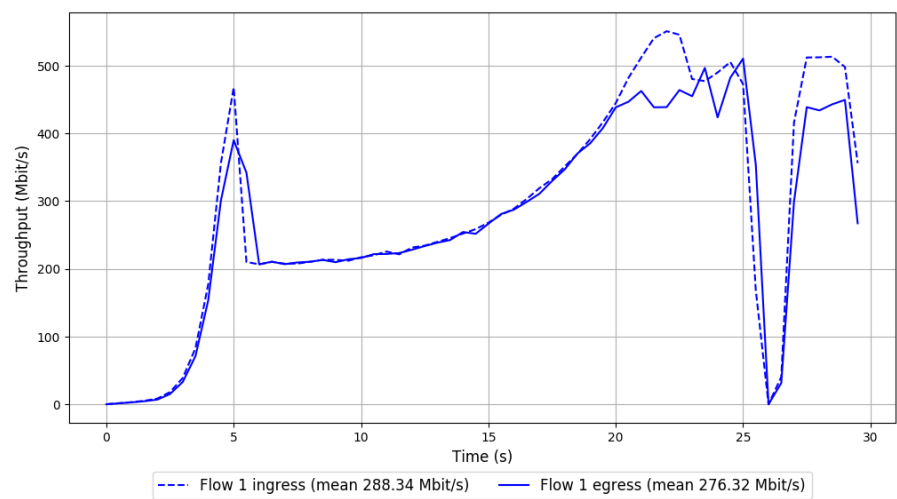


```
Run 2: Statistics of Vivace-loss

Start at: 2018-03-26 20:11:59
End at: 2018-03-26 20:12:29

# Below is generated by plot.py at 2018-03-27 02:02:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 276.32 Mbit/s
95th percentile per-packet one-way delay: 257.487 ms
Loss rate: 4.89%
-- Flow 1:
Average throughput: 276.32 Mbit/s
95th percentile per-packet one-way delay: 257.487 ms
Loss rate: 4.89%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-26 20:27:12

End at: 2018-03-26 20:27:42

Below is generated by plot.py at 2018-03-27 02:06:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.76 Mbit/s

95th percentile per-packet one-way delay: 258.156 ms

Loss rate: 2.55%

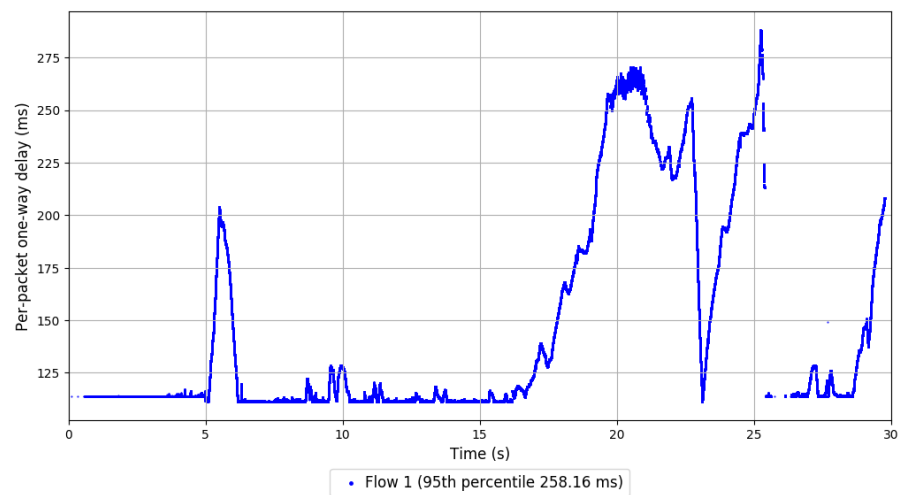
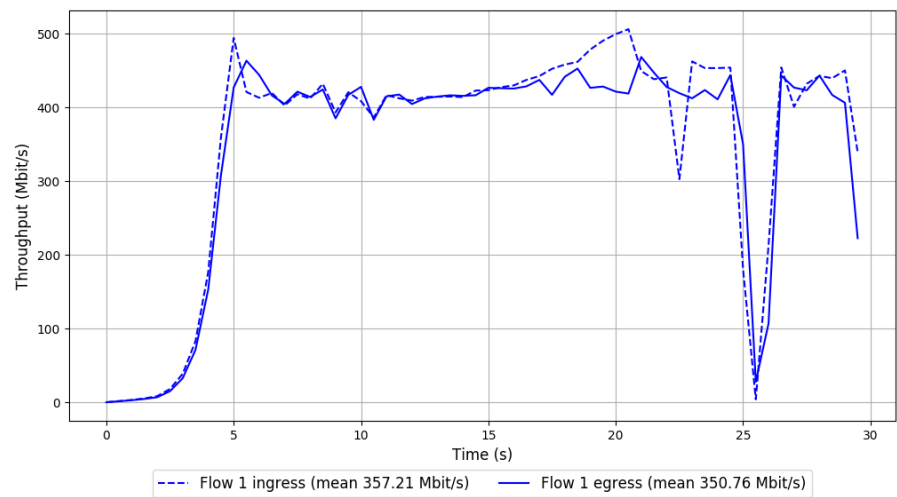
-- Flow 1:

Average throughput: 350.76 Mbit/s

95th percentile per-packet one-way delay: 258.156 ms

Loss rate: 2.55%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-26 20:42:40

End at: 2018-03-26 20:43:10

Below is generated by plot.py at 2018-03-27 02:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.27 Mbit/s

95th percentile per-packet one-way delay: 259.651 ms

Loss rate: 4.54%

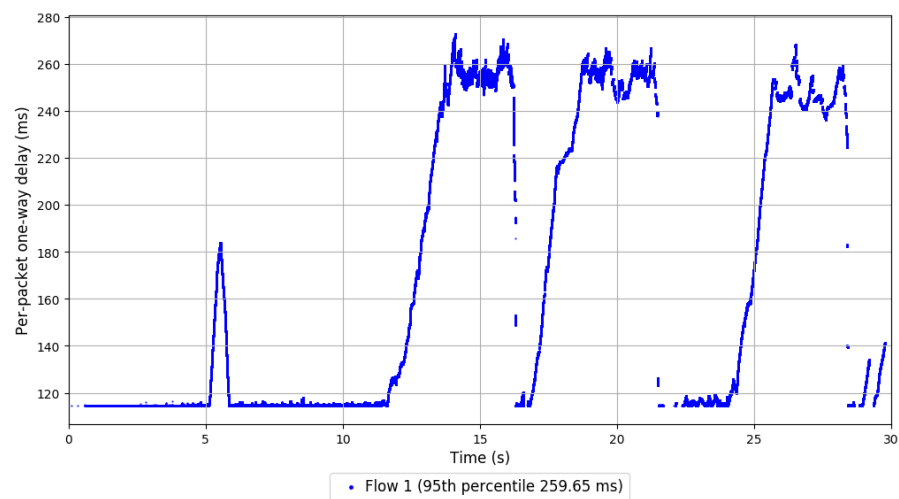
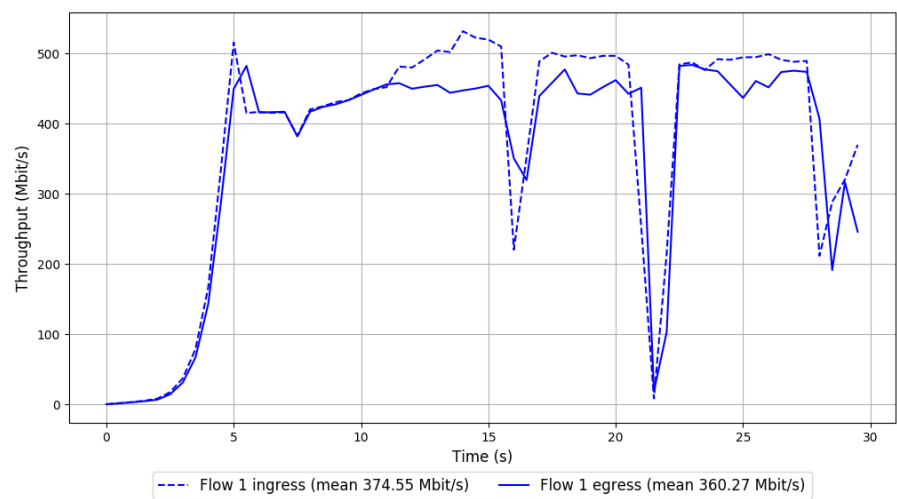
-- Flow 1:

Average throughput: 360.27 Mbit/s

95th percentile per-packet one-way delay: 259.651 ms

Loss rate: 4.54%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-26 20:58:15

End at: 2018-03-26 20:58:45

Below is generated by plot.py at 2018-03-27 02:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.89 Mbit/s

95th percentile per-packet one-way delay: 261.214 ms

Loss rate: 5.53%

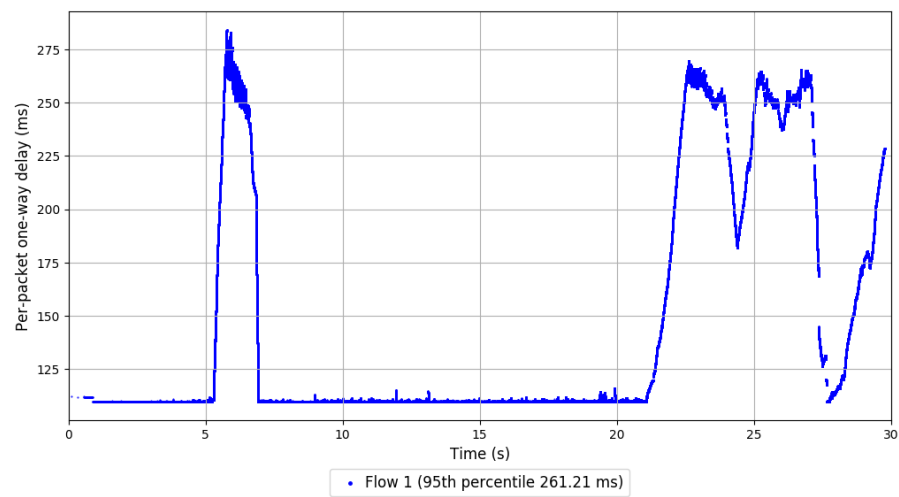
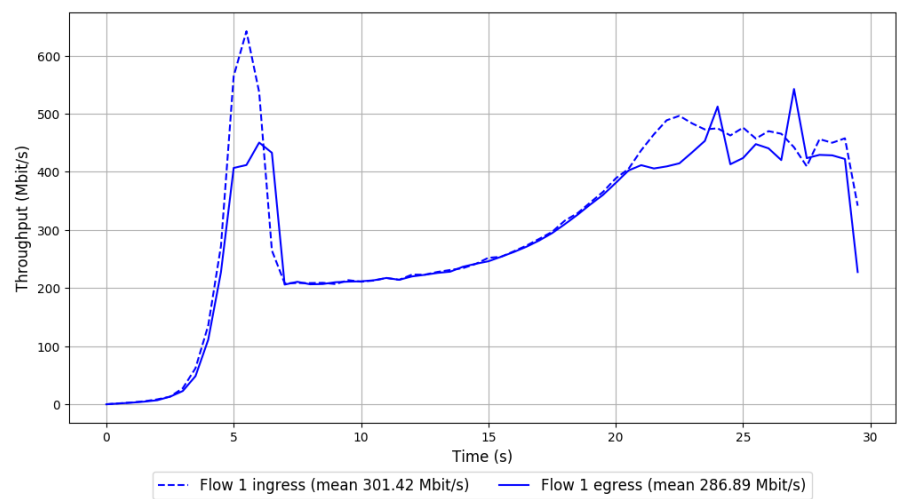
-- Flow 1:

Average throughput: 286.89 Mbit/s

95th percentile per-packet one-way delay: 261.214 ms

Loss rate: 5.53%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-26 21:13:36

End at: 2018-03-26 21:14:06

Below is generated by plot.py at 2018-03-27 02:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.21 Mbit/s

95th percentile per-packet one-way delay: 252.139 ms

Loss rate: 4.69%

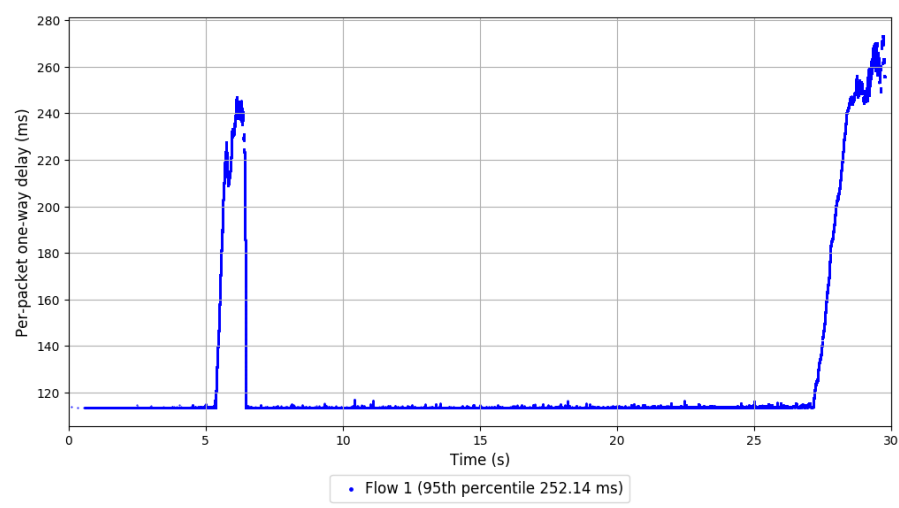
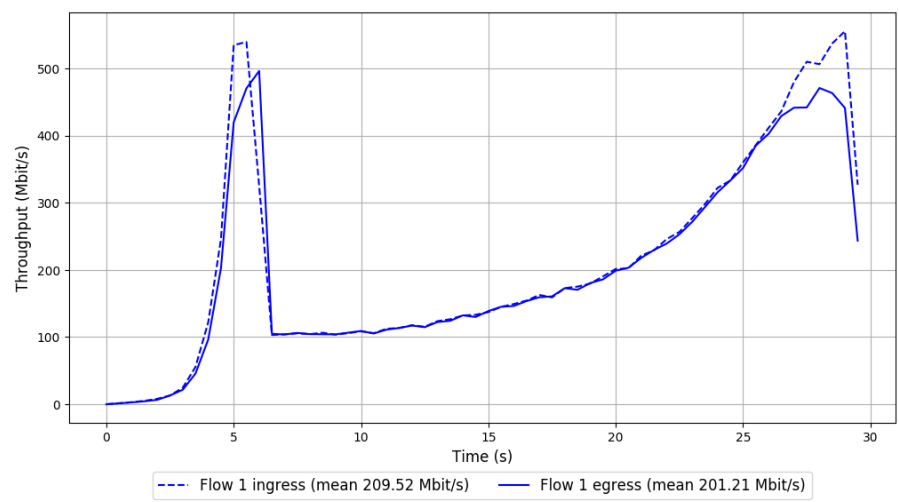
-- Flow 1:

Average throughput: 201.21 Mbit/s

95th percentile per-packet one-way delay: 252.139 ms

Loss rate: 4.69%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-26 21:28:44

End at: 2018-03-26 21:29:14

Below is generated by plot.py at 2018-03-27 02:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.19 Mbit/s

95th percentile per-packet one-way delay: 255.790 ms

Loss rate: 3.69%

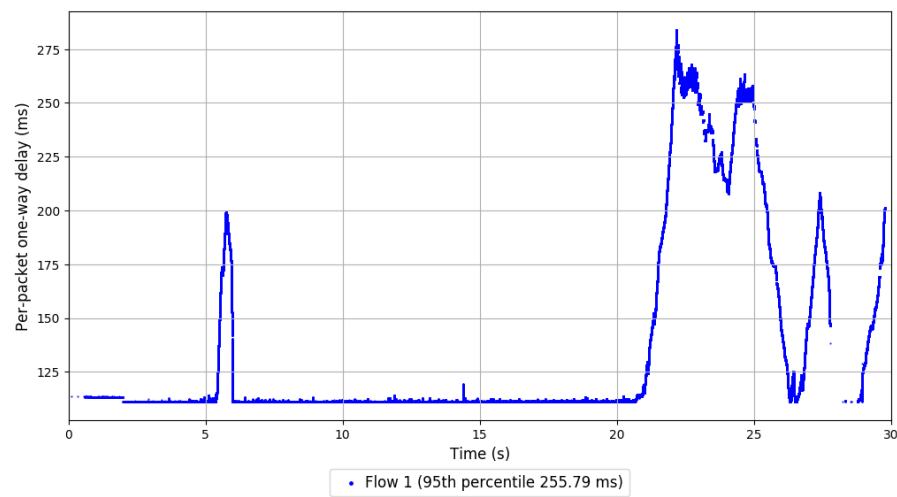
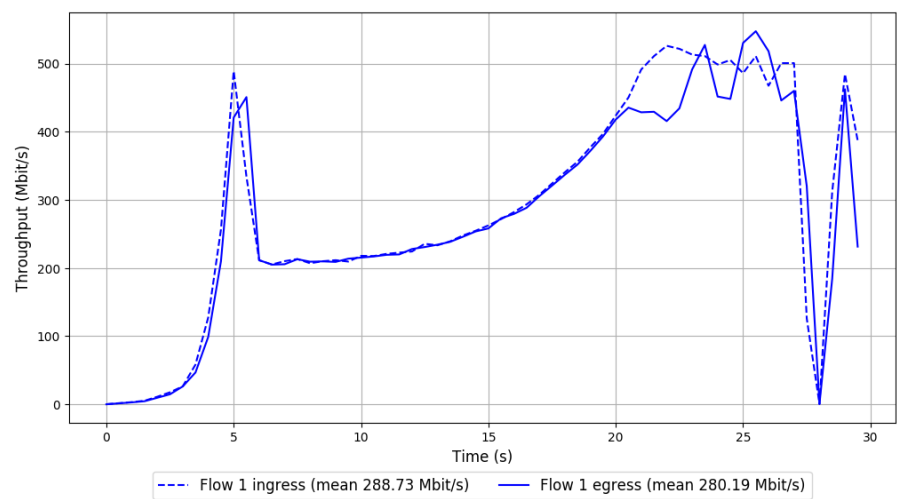
-- Flow 1:

Average throughput: 280.19 Mbit/s

95th percentile per-packet one-way delay: 255.790 ms

Loss rate: 3.69%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-26 21:44:01

End at: 2018-03-26 21:44:31

Below is generated by plot.py at 2018-03-27 02:08:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.64 Mbit/s

95th percentile per-packet one-way delay: 262.374 ms

Loss rate: 3.39%

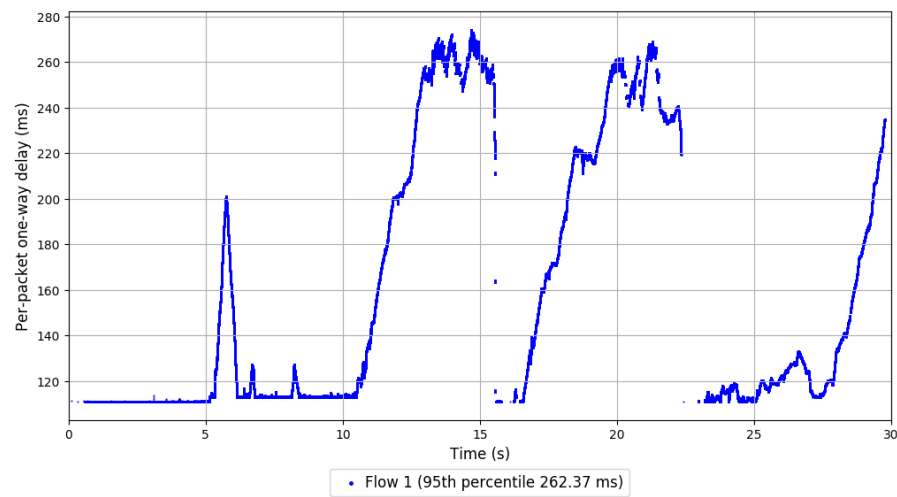
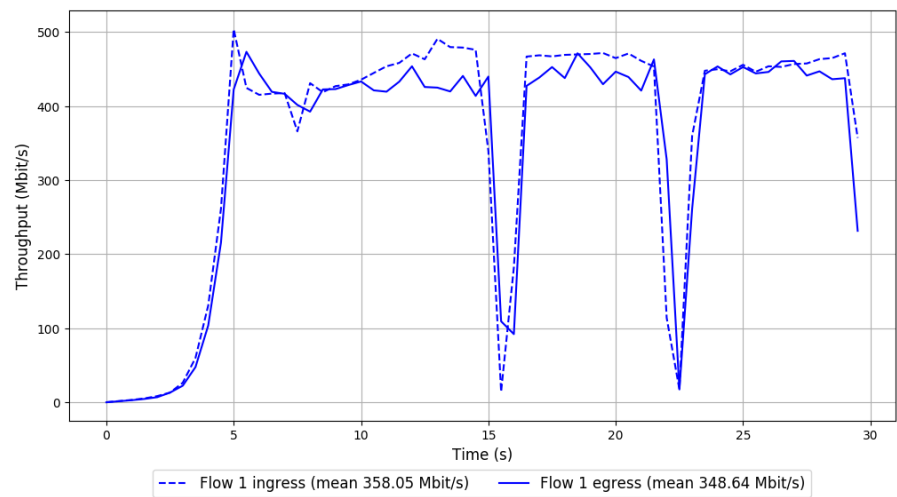
-- Flow 1:

Average throughput: 348.64 Mbit/s

95th percentile per-packet one-way delay: 262.374 ms

Loss rate: 3.39%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-26 21:59:46

End at: 2018-03-26 22:00:16

Below is generated by plot.py at 2018-03-27 02:09:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.86 Mbit/s

95th percentile per-packet one-way delay: 250.795 ms

Loss rate: 1.91%

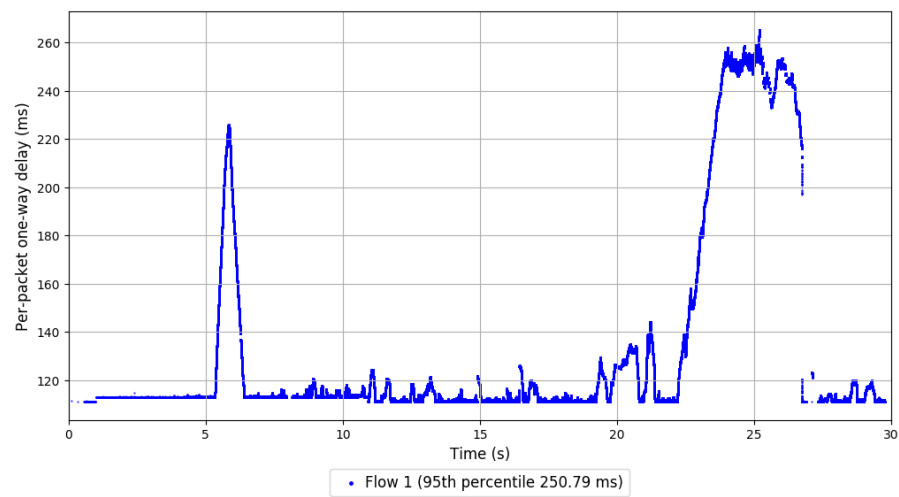
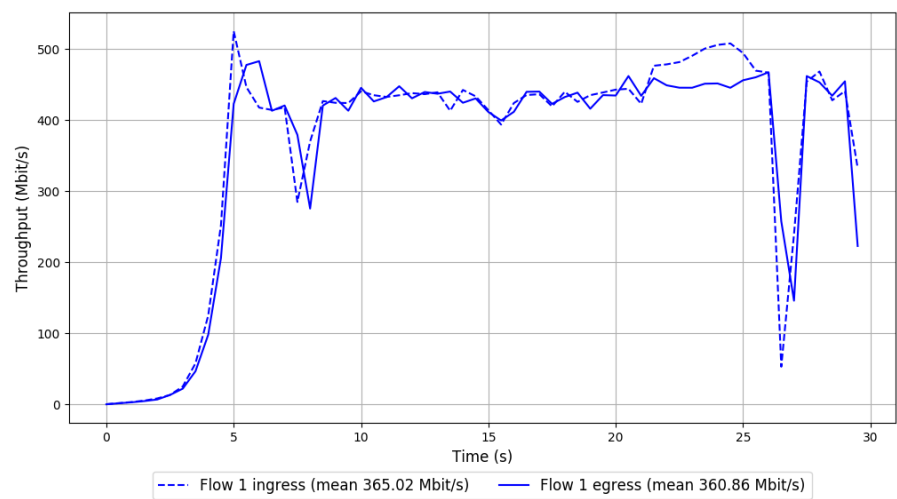
-- Flow 1:

Average throughput: 360.86 Mbit/s

95th percentile per-packet one-way delay: 250.795 ms

Loss rate: 1.91%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-26 22:15:08

End at: 2018-03-26 22:15:38

Below is generated by plot.py at 2018-03-27 02:09:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.97 Mbit/s

95th percentile per-packet one-way delay: 122.366 ms

Loss rate: 0.93%

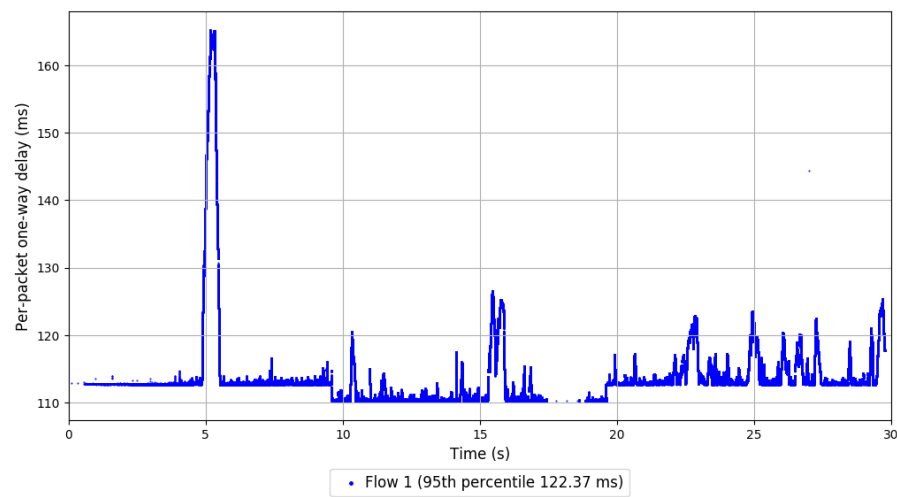
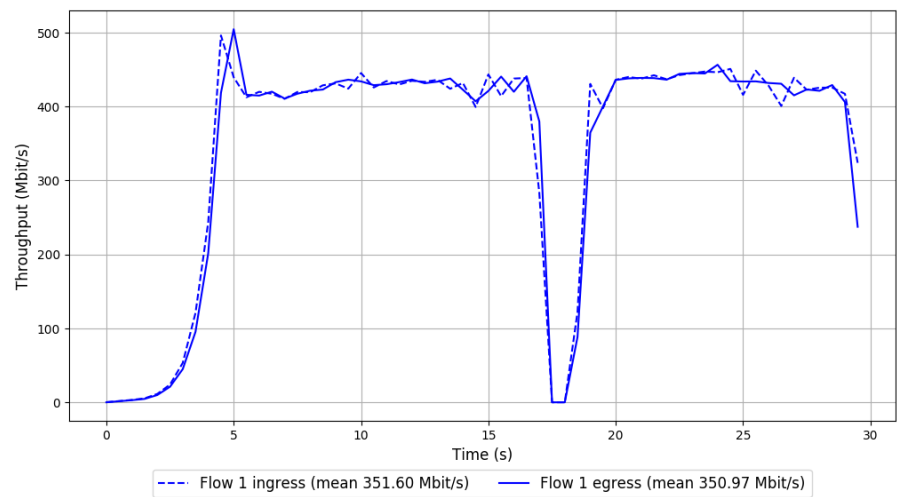
-- Flow 1:

Average throughput: 350.97 Mbit/s

95th percentile per-packet one-way delay: 122.366 ms

Loss rate: 0.93%

Run 10: Report of Vivace-loss — Data Link

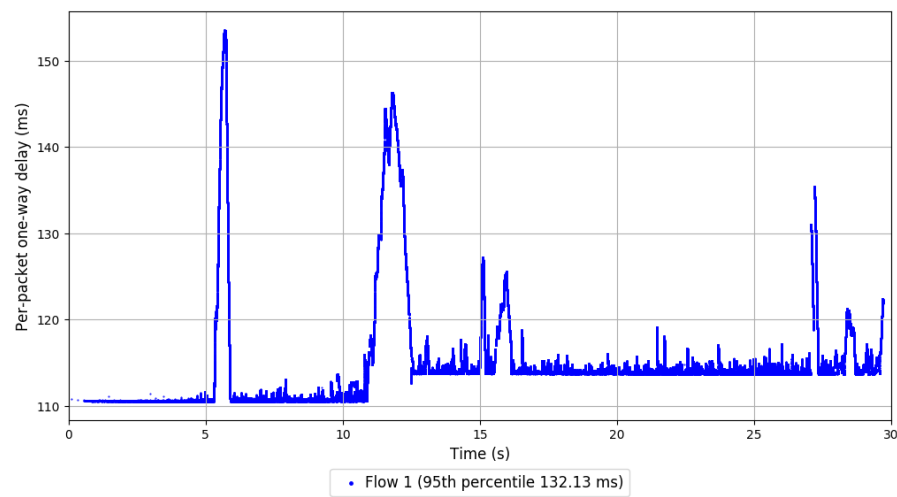
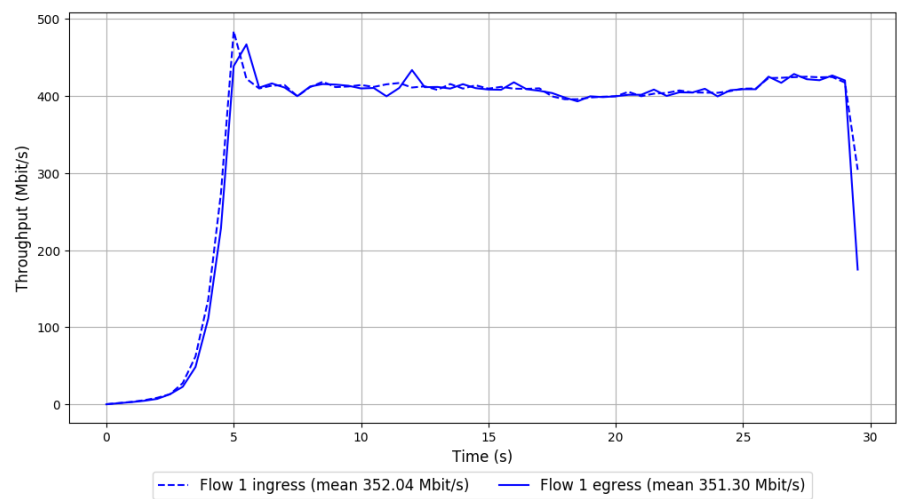


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-26 19:55:23
End at: 2018-03-26 19:55:53

# Below is generated by plot.py at 2018-03-27 02:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.30 Mbit/s
95th percentile per-packet one-way delay: 132.128 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 351.30 Mbit/s
95th percentile per-packet one-way delay: 132.128 ms
Loss rate: 1.08%
```

Run 1: Report of Vivace-LTE — Data Link

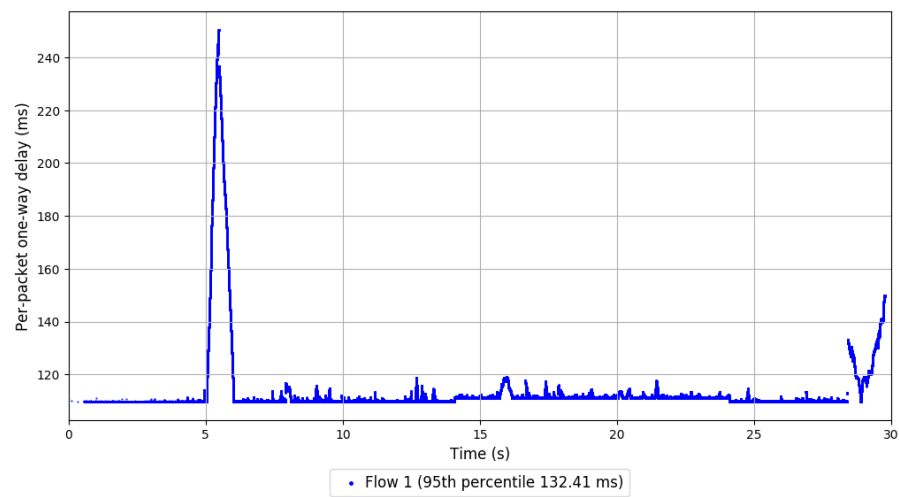
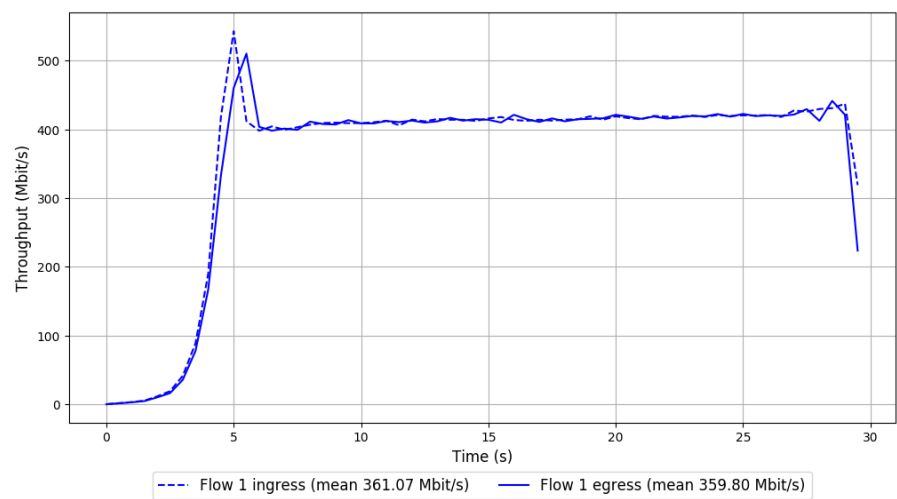


```
Run 2: Statistics of Vivace-LTE

Start at: 2018-03-26 20:10:52
End at: 2018-03-26 20:11:22

# Below is generated by plot.py at 2018-03-27 02:12:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.80 Mbit/s
95th percentile per-packet one-way delay: 132.409 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 359.80 Mbit/s
95th percentile per-packet one-way delay: 132.409 ms
Loss rate: 1.09%
```

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-26 20:26:04

End at: 2018-03-26 20:26:34

Below is generated by plot.py at 2018-03-27 02:12:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.30 Mbit/s

95th percentile per-packet one-way delay: 193.843 ms

Loss rate: 1.11%

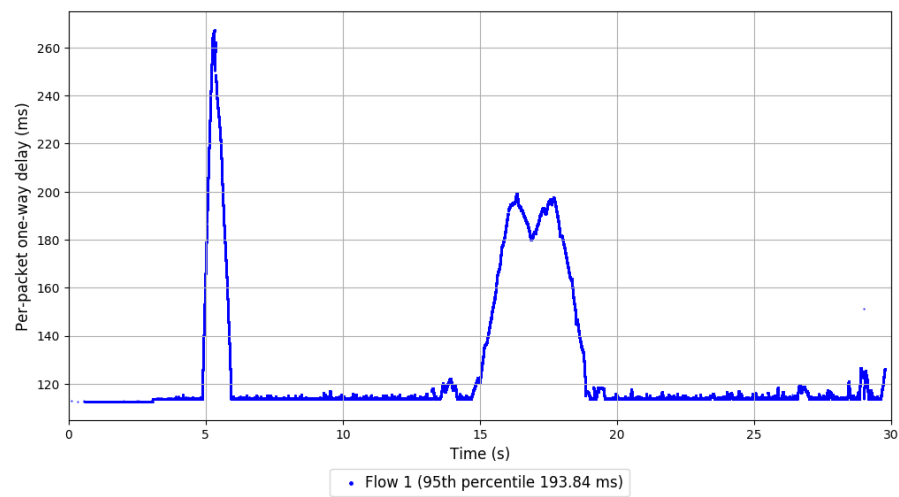
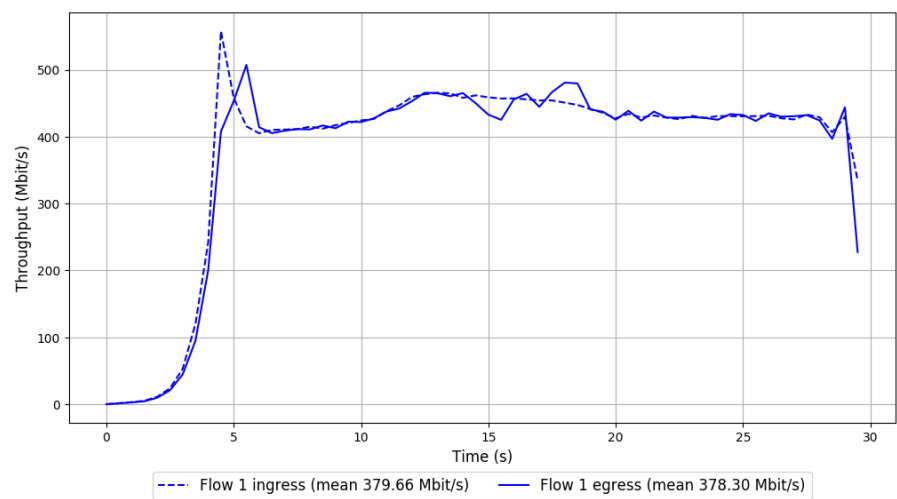
-- Flow 1:

Average throughput: 378.30 Mbit/s

95th percentile per-packet one-way delay: 193.843 ms

Loss rate: 1.11%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-26 20:41:34

End at: 2018-03-26 20:42:04

Below is generated by plot.py at 2018-03-27 02:12:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.92 Mbit/s

95th percentile per-packet one-way delay: 146.631 ms

Loss rate: 1.17%

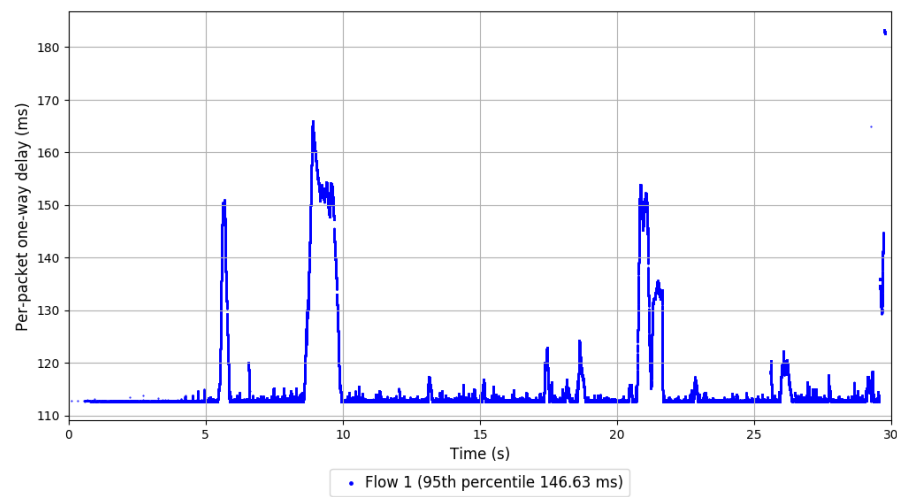
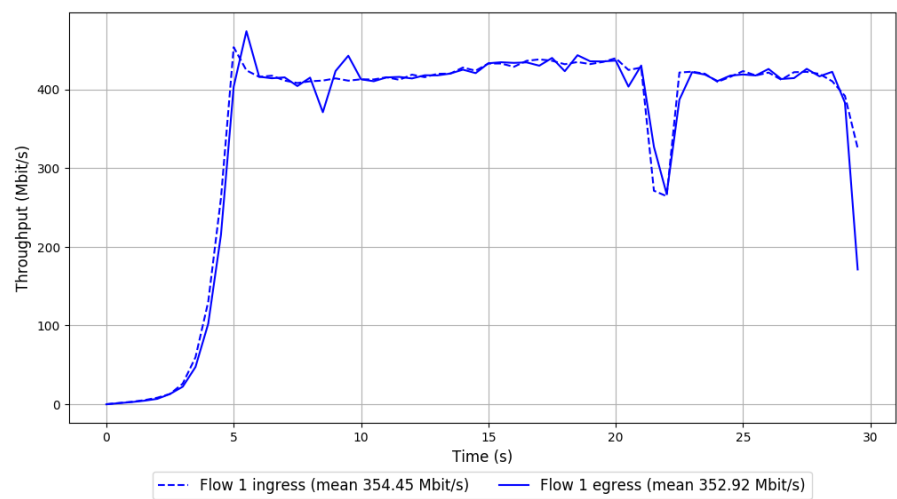
-- Flow 1:

Average throughput: 352.92 Mbit/s

95th percentile per-packet one-way delay: 146.631 ms

Loss rate: 1.17%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-26 20:57:08

End at: 2018-03-26 20:57:38

Below is generated by plot.py at 2018-03-27 02:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.71 Mbit/s

95th percentile per-packet one-way delay: 121.118 ms

Loss rate: 0.89%

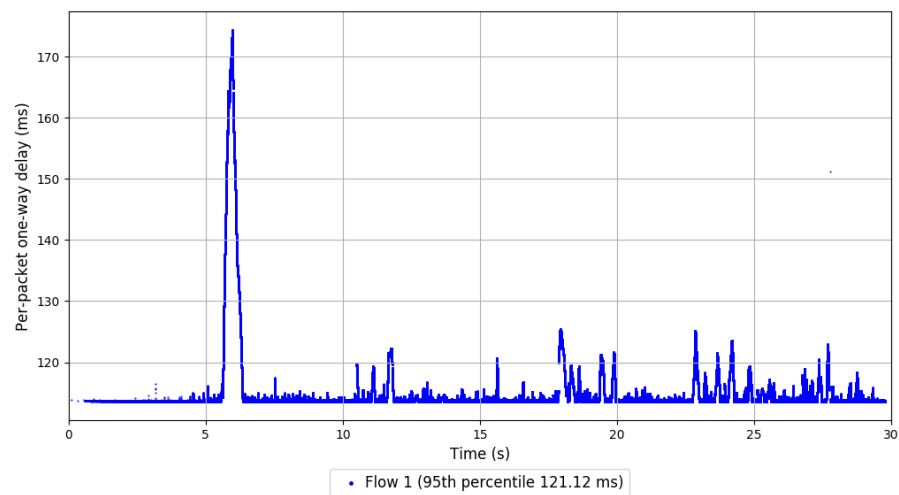
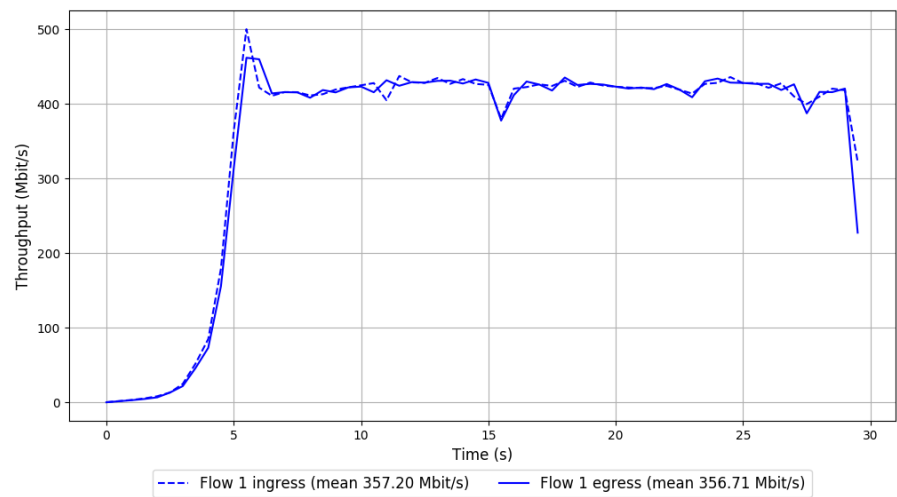
-- Flow 1:

Average throughput: 356.71 Mbit/s

95th percentile per-packet one-way delay: 121.118 ms

Loss rate: 0.89%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-26 21:12:30

End at: 2018-03-26 21:13:00

Below is generated by plot.py at 2018-03-27 02:13:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.83 Mbit/s

95th percentile per-packet one-way delay: 113.125 ms

Loss rate: 0.83%

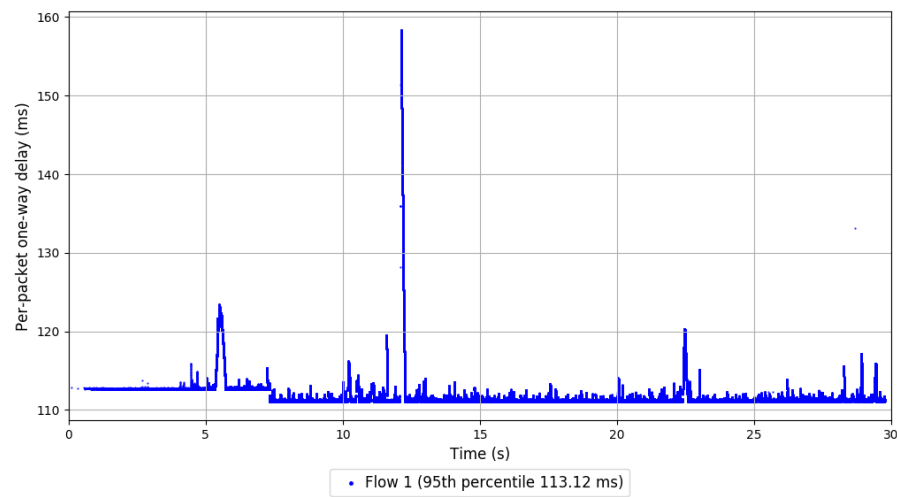
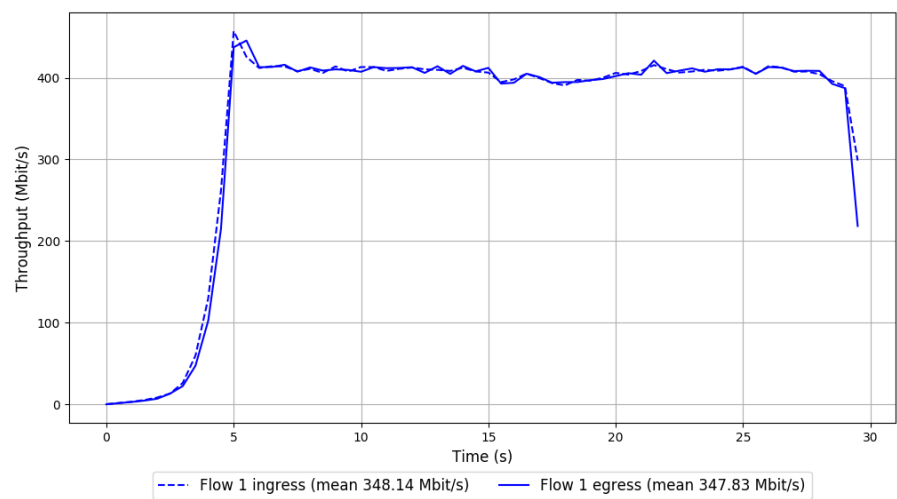
-- Flow 1:

Average throughput: 347.83 Mbit/s

95th percentile per-packet one-way delay: 113.125 ms

Loss rate: 0.83%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-26 21:27:36

End at: 2018-03-26 21:28:06

Below is generated by plot.py at 2018-03-27 02:14:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.71 Mbit/s

95th percentile per-packet one-way delay: 139.520 ms

Loss rate: 0.63%

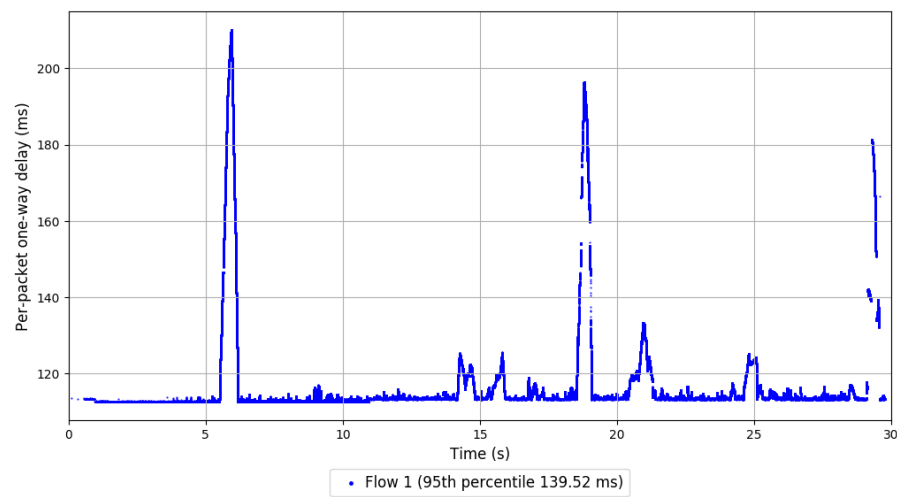
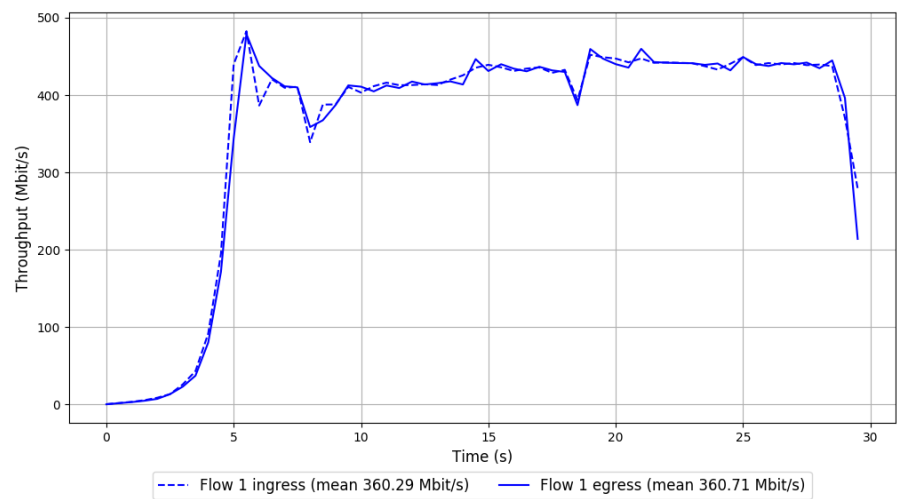
-- Flow 1:

Average throughput: 360.71 Mbit/s

95th percentile per-packet one-way delay: 139.520 ms

Loss rate: 0.63%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-26 21:42:59

End at: 2018-03-26 21:43:29

Below is generated by plot.py at 2018-03-27 02:14:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.37 Mbit/s

95th percentile per-packet one-way delay: 115.323 ms

Loss rate: 0.99%

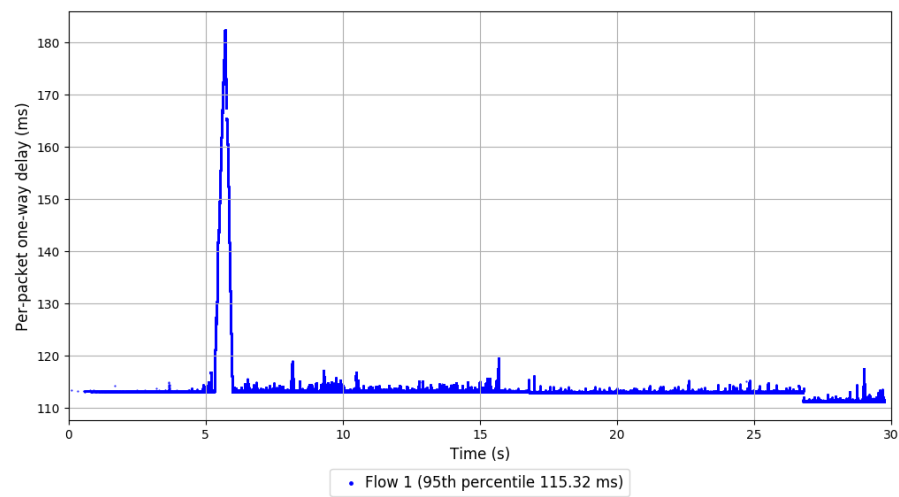
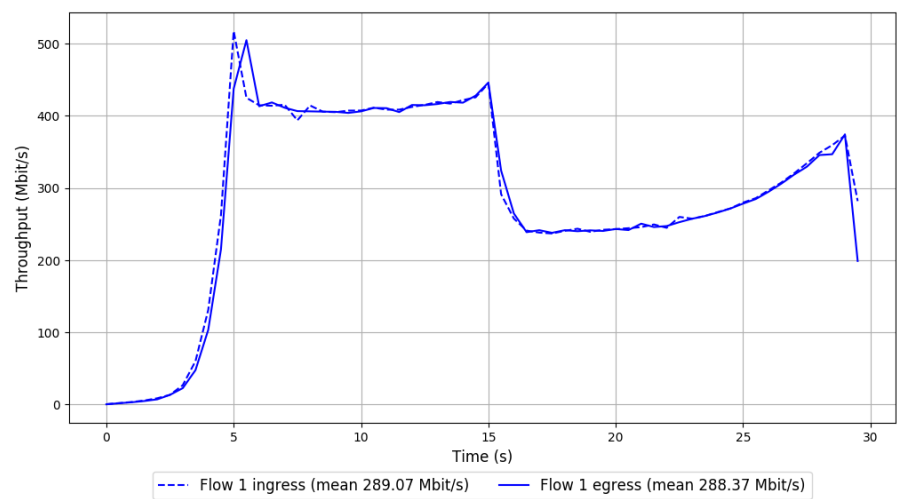
-- Flow 1:

Average throughput: 288.37 Mbit/s

95th percentile per-packet one-way delay: 115.323 ms

Loss rate: 0.99%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-26 21:58:41

End at: 2018-03-26 21:59:11

Below is generated by plot.py at 2018-03-27 02:14:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.00 Mbit/s

95th percentile per-packet one-way delay: 116.016 ms

Loss rate: 0.83%

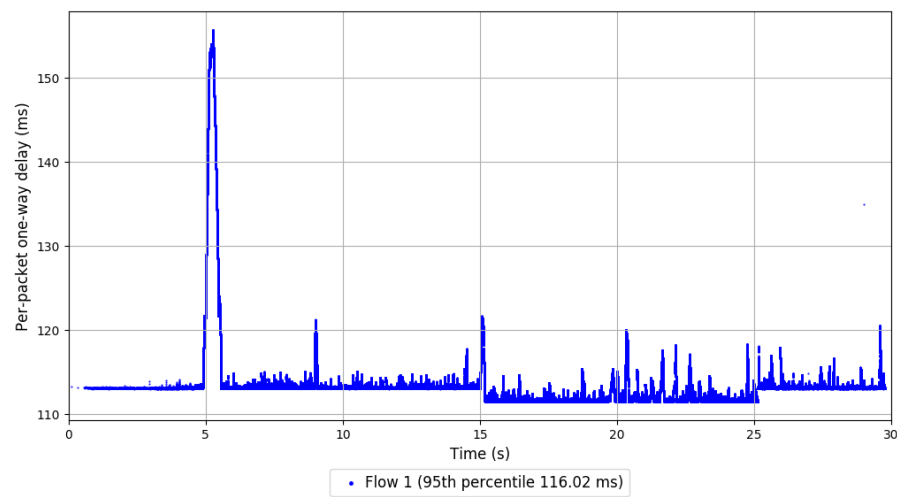
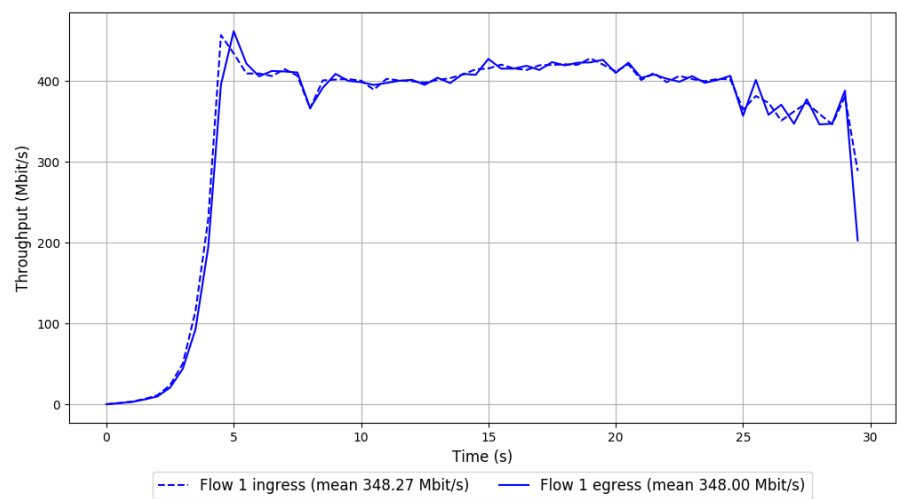
-- Flow 1:

Average throughput: 348.00 Mbit/s

95th percentile per-packet one-way delay: 116.016 ms

Loss rate: 0.83%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-26 22:14:00
End at: 2018-03-26 22:14:30

# Below is generated by plot.py at 2018-03-27 02:14:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.78 Mbit/s
95th percentile per-packet one-way delay: 145.959 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 358.78 Mbit/s
95th percentile per-packet one-way delay: 145.959 ms
Loss rate: 1.33%
```

Run 10: Report of Vivace-LTE — Data Link

