

## Pantheon Report

Generated at 2018-01-16 18:08:04 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia Ethernet (*remote*).

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).

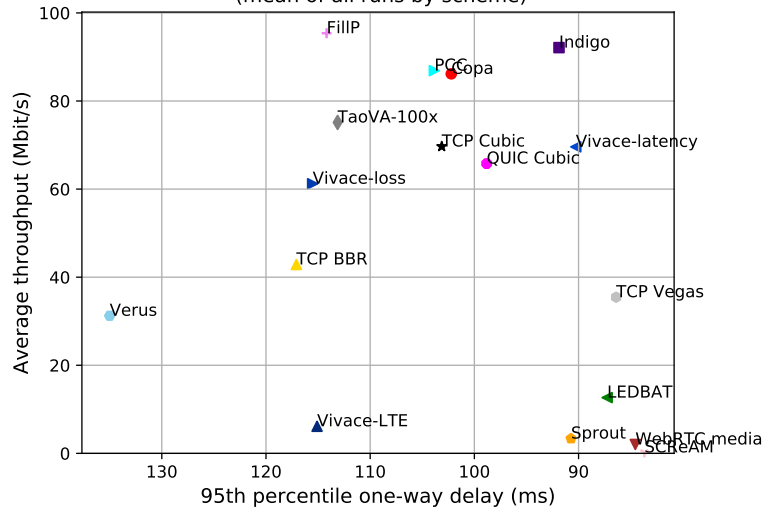
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

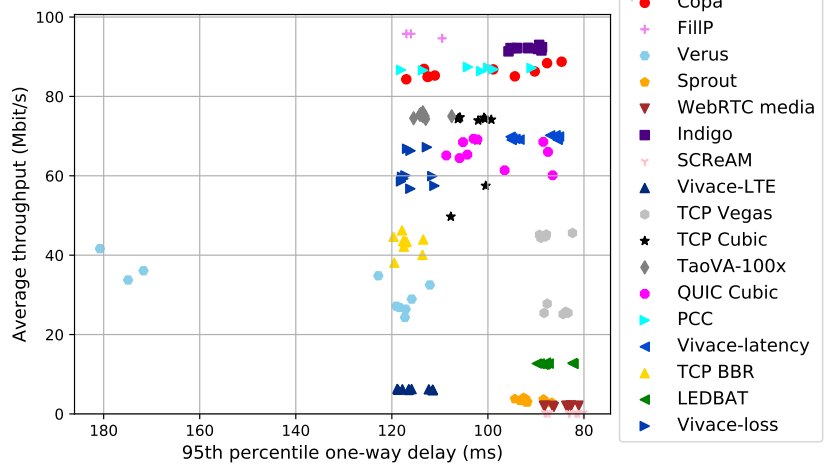
Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS Brazil 2 Ethernet to Colombia Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from AWS Brazil 2 Ethernet to Colombia 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	42.88	117.08	25.79
TCP Cubic	10	69.67	103.13	0.41
LEDBAT	10	12.66	87.26	0.01
PCC	7	86.89	103.84	1.46
QUIC Cubic	10	65.80	98.82	0.18
SCReAM	10	0.22	83.68	0.00
WebRTC media	10	2.02	84.55	0.00
Sprout	10	3.36	90.73	0.00
TaoVA-100x	9	75.13	113.13	0.65
TCP Vegas	10	35.45	86.39	0.49
Verus	10	31.24	135.00	35.20
Copa	10	86.17	102.22	7.97
FillP	3	95.39	114.18	15.35
Indigo	10	92.12	91.88	0.54
Vivace-latency	10	69.58	90.27	0.15
Vivace-loss	10	61.22	115.52	3.19
Vivace-LTE	10	6.15	115.10	21.21

Run 1: Statistics of TCP BBR

Start at: 2018-01-16 13:59:48

End at: 2018-01-16 14:00:18

Local clock offset: 0.359 ms

Remote clock offset: 1.582 ms

# Below is generated by plot.py at 2018-01-16 17:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.24 Mbit/s

95th percentile per-packet one-way delay: 117.880 ms

Loss rate: 25.00%

-- Flow 1:

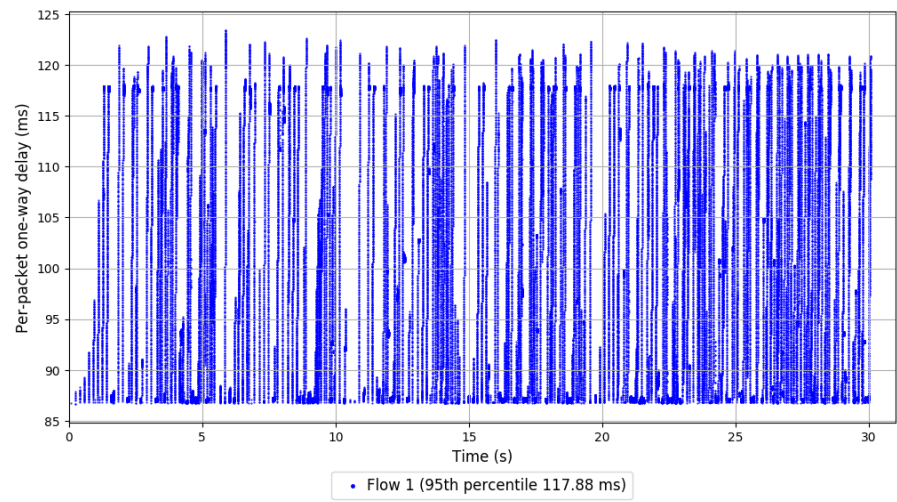
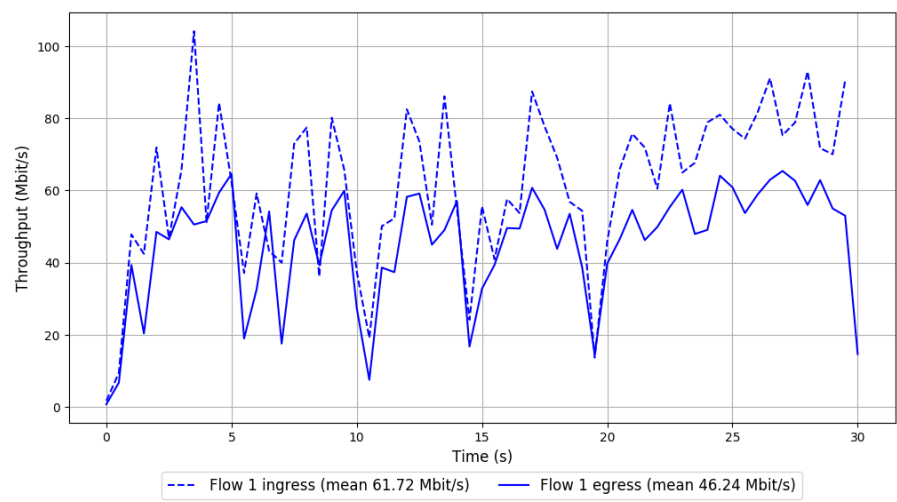
Average throughput: 46.24 Mbit/s

95th percentile per-packet one-way delay: 117.880 ms

Loss rate: 25.00%



Run 1: Report of TCP BBR — Data Link

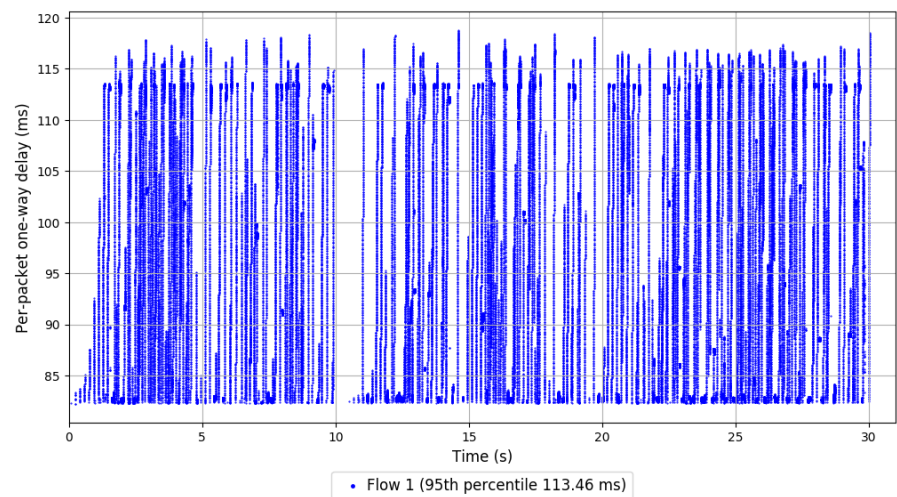
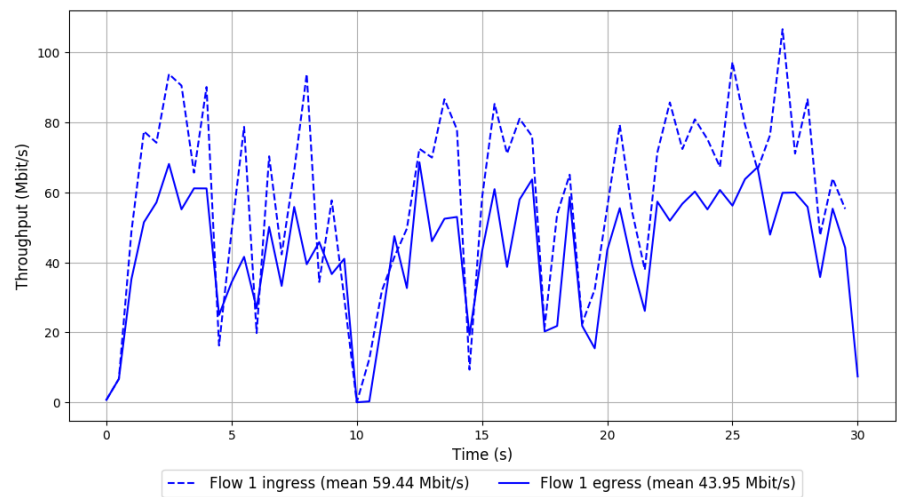


Run 2: Statistics of TCP BBR

Start at: 2018-01-16 14:21:45  
End at: 2018-01-16 14:22:15  
Local clock offset: 0.677 ms  
Remote clock offset: -4.774 ms

# Below is generated by plot.py at 2018-01-16 17:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 43.95 Mbit/s  
95th percentile per-packet one-way delay: 113.458 ms  
Loss rate: 25.98%  
-- Flow 1:  
Average throughput: 43.95 Mbit/s  
95th percentile per-packet one-way delay: 113.458 ms  
Loss rate: 25.98%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 14:43:38

End at: 2018-01-16 14:44:08

Local clock offset: 1.032 ms

Remote clock offset: 0.779 ms

# Below is generated by plot.py at 2018-01-16 17:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.53 Mbit/s

95th percentile per-packet one-way delay: 117.387 ms

Loss rate: 26.99%

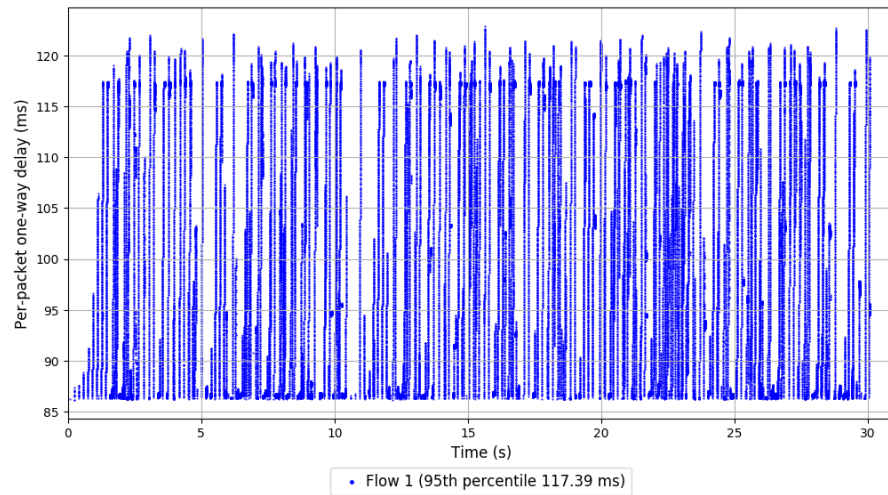
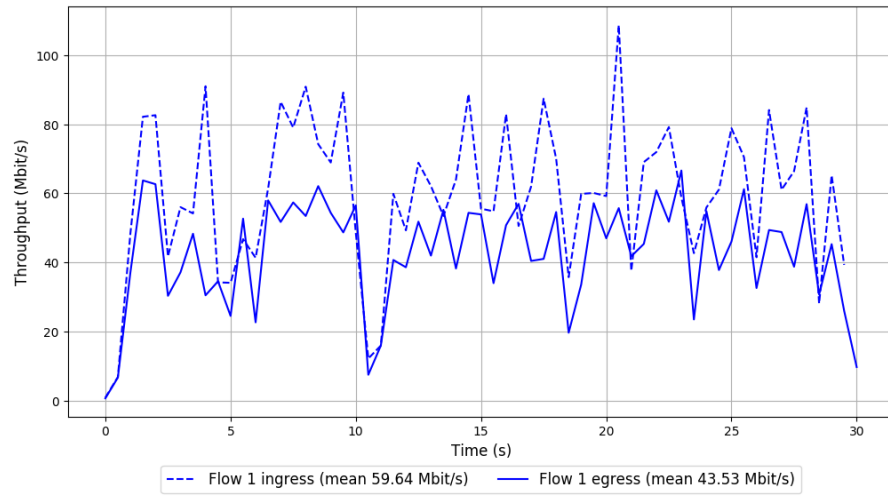
-- Flow 1:

Average throughput: 43.53 Mbit/s

95th percentile per-packet one-way delay: 117.387 ms

Loss rate: 26.99%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 15:04:46

End at: 2018-01-16 15:05:16

Local clock offset: 1.083 ms

# Below is generated by plot.py at 2018-01-16 17:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 42.13 Mbit/s

95th percentile per-packet one-way delay: 117.509 ms

Loss rate: 26.33%

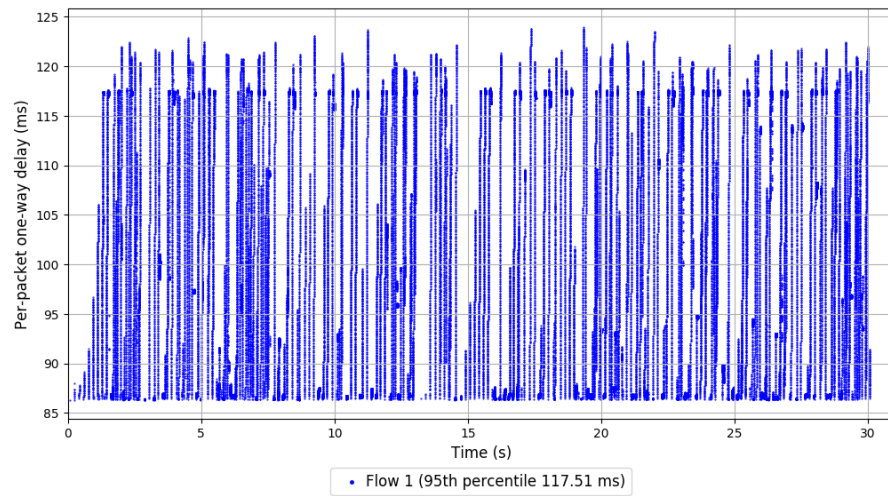
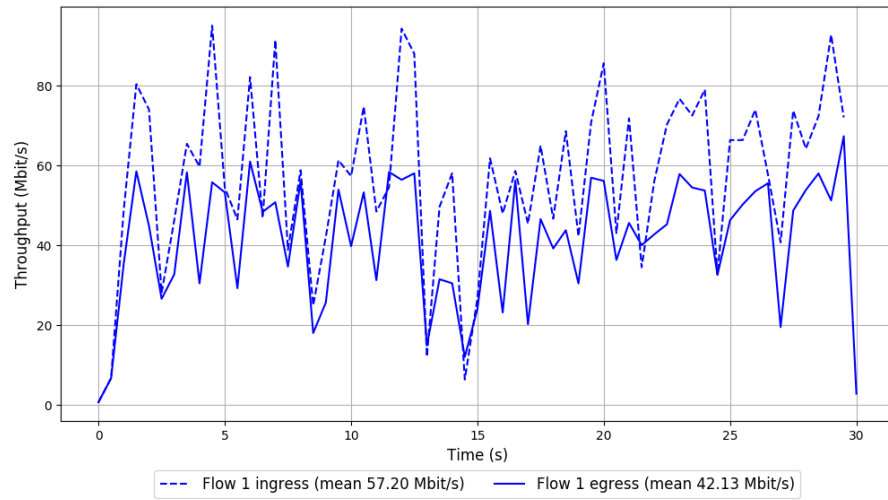
-- Flow 1:

Average throughput: 42.13 Mbit/s

95th percentile per-packet one-way delay: 117.509 ms

Loss rate: 26.33%

#### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 15:25:40

End at: 2018-01-16 15:26:10

Local clock offset: 1.115 ms

Remote clock offset: 0.42 ms

# Below is generated by plot.py at 2018-01-16 17:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.63 Mbit/s

95th percentile per-packet one-way delay: 119.664 ms

Loss rate: 26.33%

-- Flow 1:

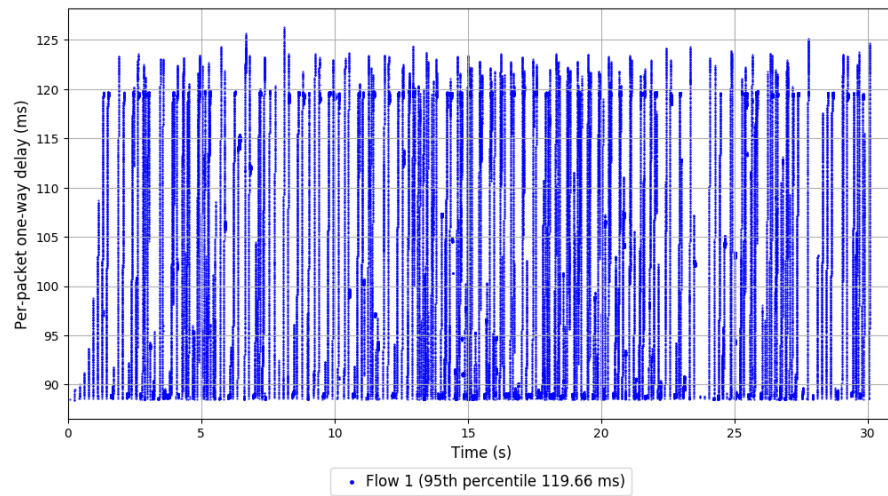
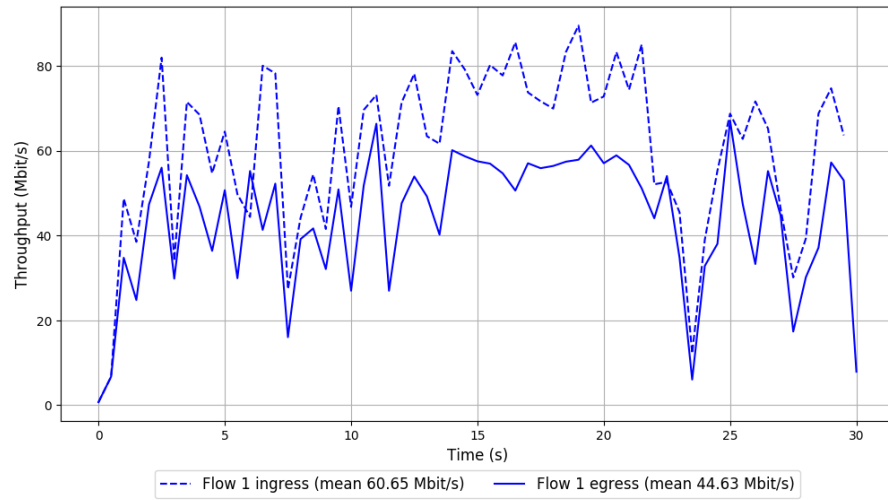
Average throughput: 44.63 Mbit/s

95th percentile per-packet one-way delay: 119.664 ms

Loss rate: 26.33%



### Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-16 15:47:31

End at: 2018-01-16 15:48:01

Local clock offset: 1.165 ms

Remote clock offset: 0.493 ms

# Below is generated by plot.py at 2018-01-16 17:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 117.253 ms

Loss rate: 25.49%

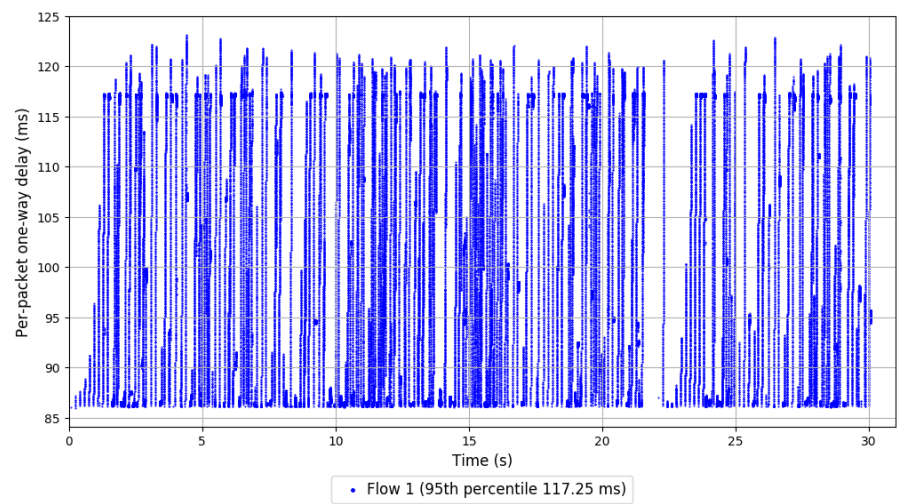
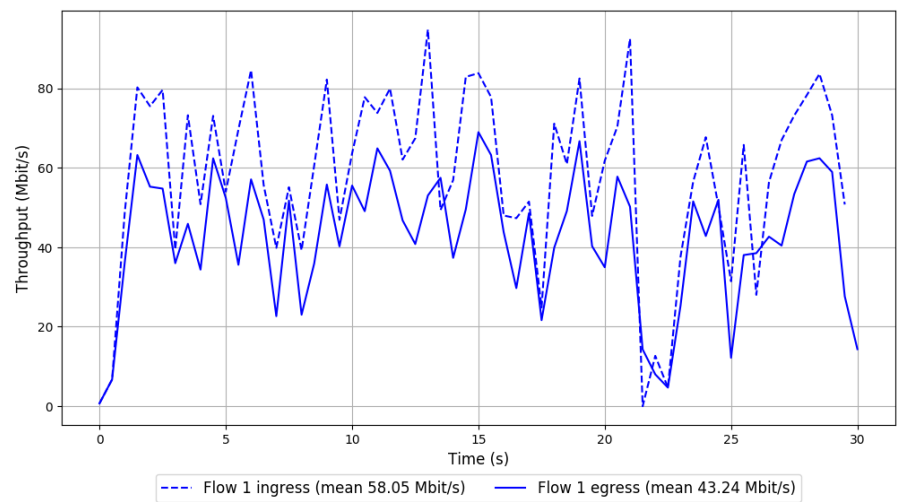
-- Flow 1:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 117.253 ms

Loss rate: 25.49%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 16:09:17

End at: 2018-01-16 16:09:47

Local clock offset: 1.114 ms

Remote clock offset: 0.952 ms

# Below is generated by plot.py at 2018-01-16 17:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 119.500 ms

Loss rate: 24.74%

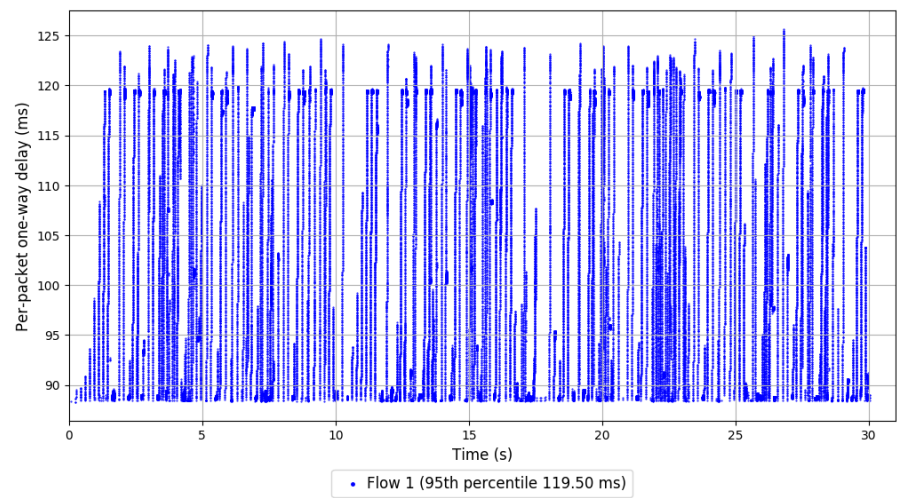
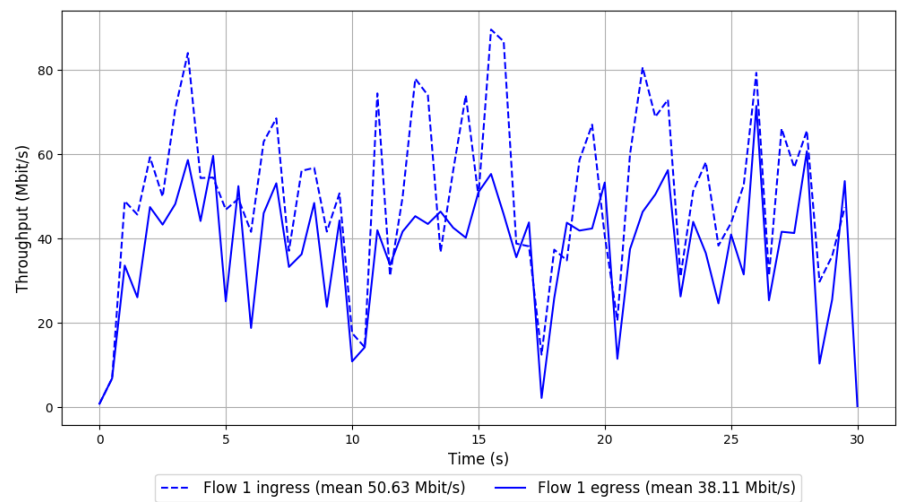
-- Flow 1:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 119.500 ms

Loss rate: 24.74%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

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

End at: 2018-01-16 16:31:36

Local clock offset: 1.104 ms

Remote clock offset: 0.655 ms

# Below is generated by plot.py at 2018-01-16 17:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 117.645 ms

Loss rate: 25.62%

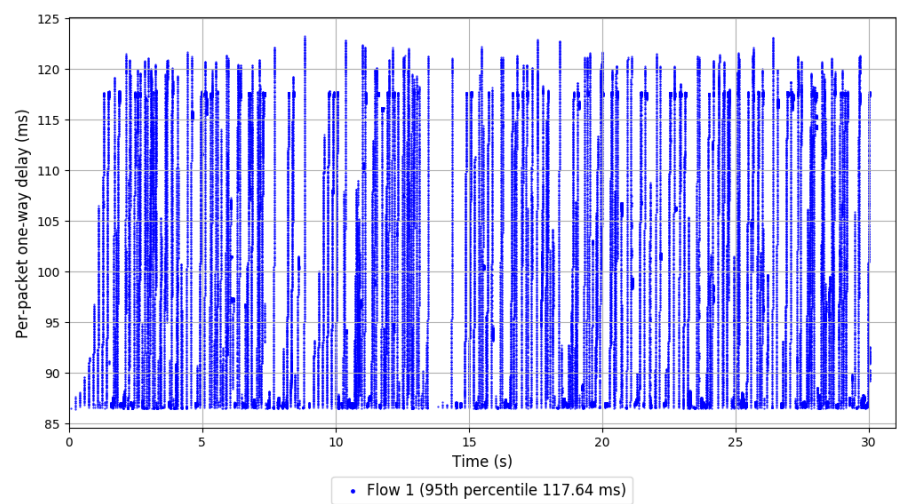
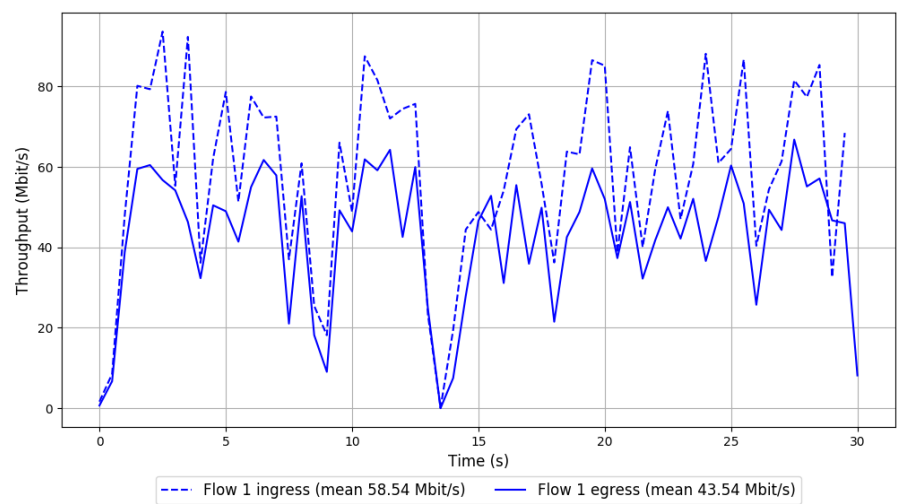
-- Flow 1:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 117.645 ms

Loss rate: 25.62%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-16 16:53:03

End at: 2018-01-16 16:53:33

Local clock offset: 1.155 ms

Remote clock offset: -5.76 ms

# Below is generated by plot.py at 2018-01-16 17:49:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 113.623 ms

Loss rate: 24.74%

-- Flow 1:

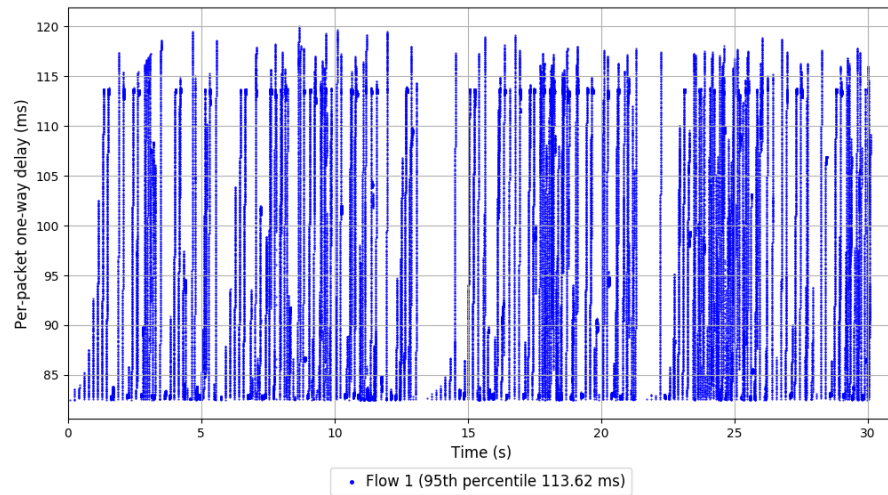
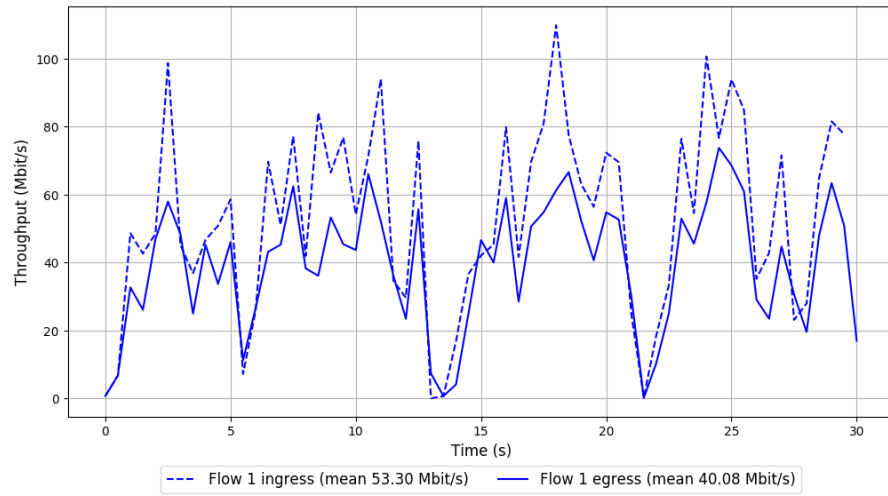
Average throughput: 40.08 Mbit/s

95th percentile per-packet one-way delay: 113.623 ms

Loss rate: 24.74%



### Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-16 17:15:00

End at: 2018-01-16 17:15:30

Local clock offset: 0.991 ms

Remote clock offset: -1.602 ms

# Below is generated by plot.py at 2018-01-16 17:50:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.38 Mbit/s

95th percentile per-packet one-way delay: 116.926 ms

Loss rate: 26.68%

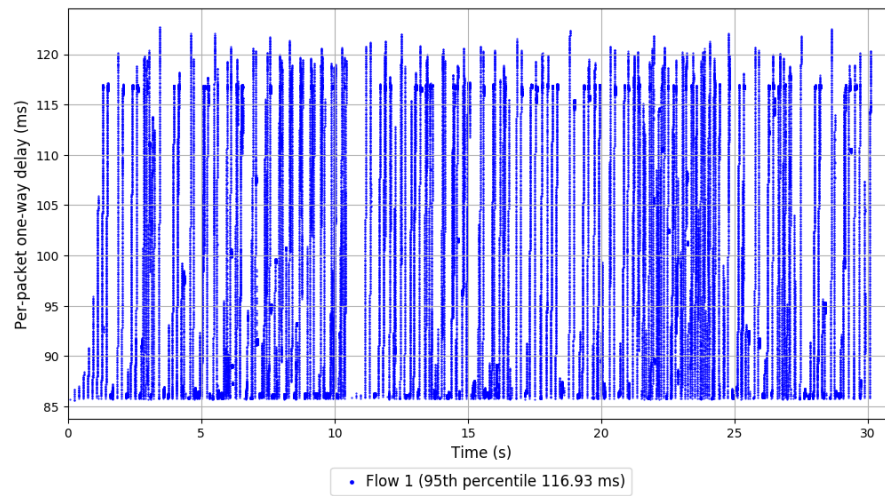
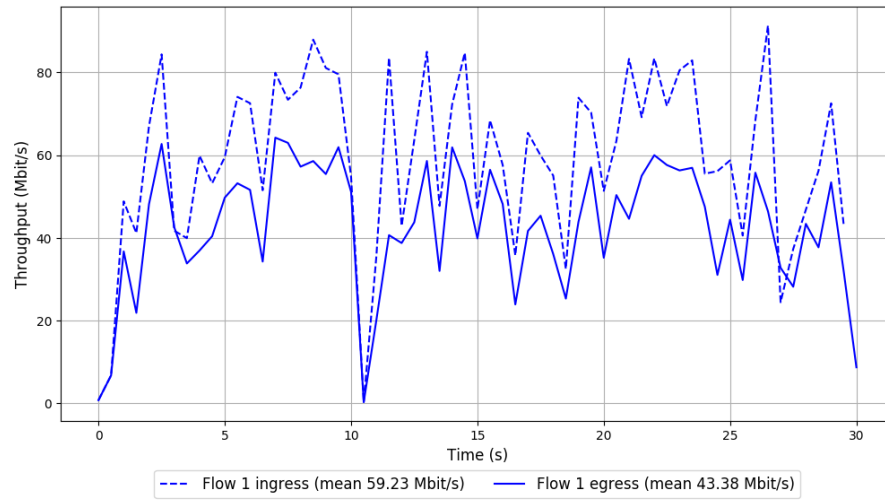
-- Flow 1:

Average throughput: 43.38 Mbit/s

95th percentile per-packet one-way delay: 116.926 ms

Loss rate: 26.68%

# Run 10: Report of TCP BBR — Data Link

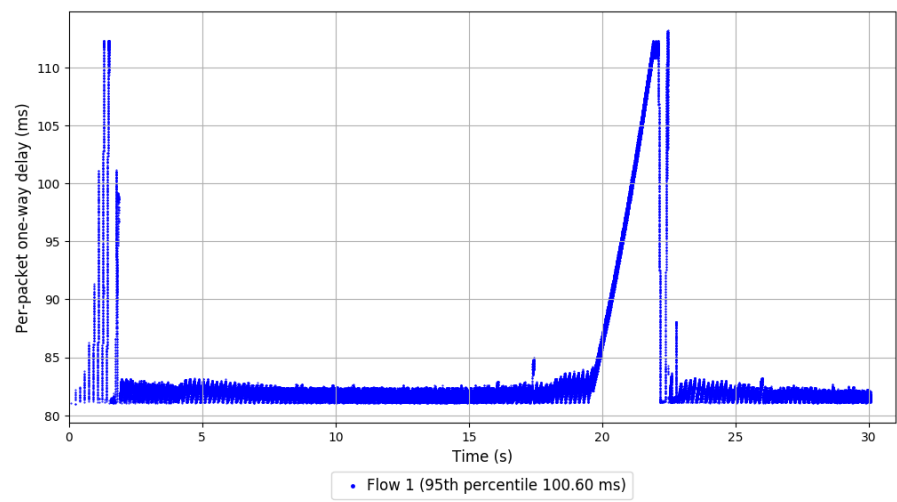
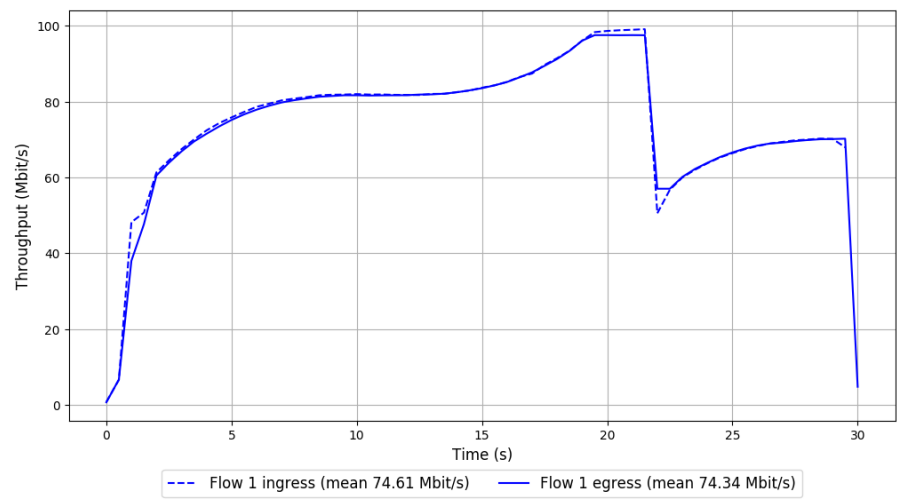


Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 13:46:25  
End at: 2018-01-16 13:46:55  
Local clock offset: 0.114 ms  
Remote clock offset: -4.014 ms

# Below is generated by plot.py at 2018-01-16 17:50:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.34 Mbit/s  
95th percentile per-packet one-way delay: 100.602 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 74.34 Mbit/s  
95th percentile per-packet one-way delay: 100.602 ms  
Loss rate: 0.36%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 14:08:16

End at: 2018-01-16 14:08:46

Local clock offset: 0.487 ms

Remote clock offset: 1.034 ms

# Below is generated by plot.py at 2018-01-16 17:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.73 Mbit/s

95th percentile per-packet one-way delay: 105.828 ms

Loss rate: 0.33%

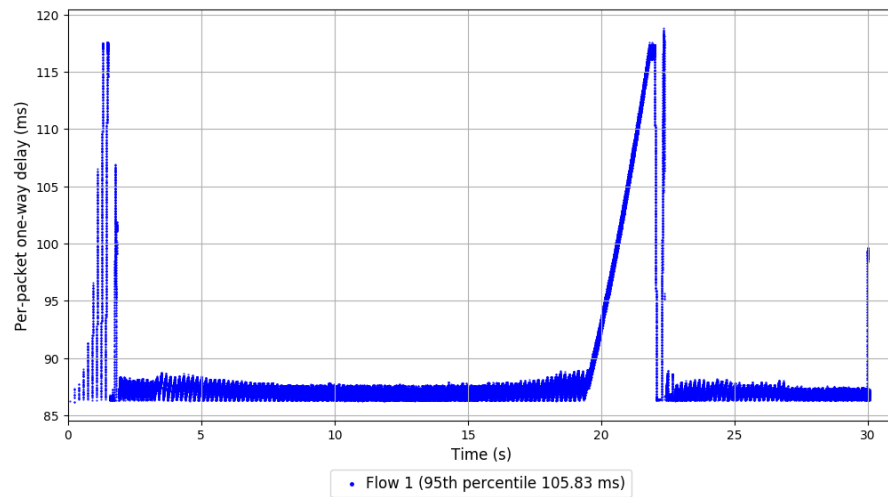
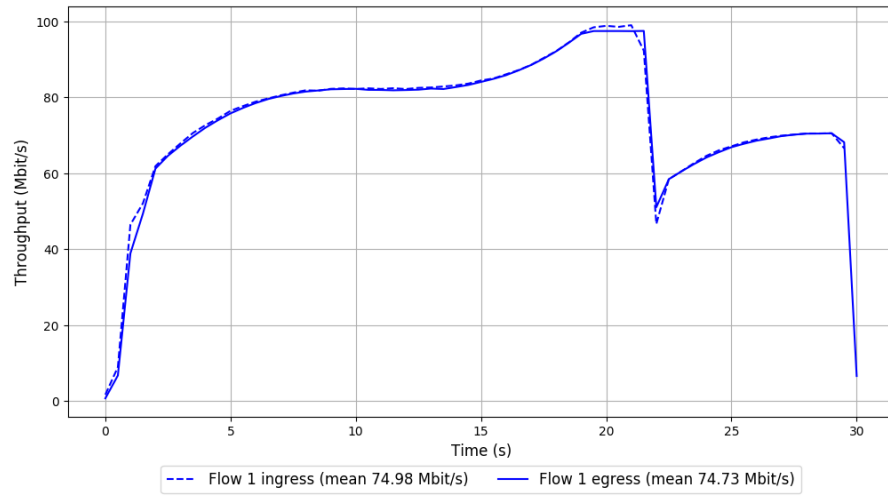
-- Flow 1:

Average throughput: 74.73 Mbit/s

95th percentile per-packet one-way delay: 105.828 ms

Loss rate: 0.33%

## Run 2: Report of TCP Cubic — Data Link



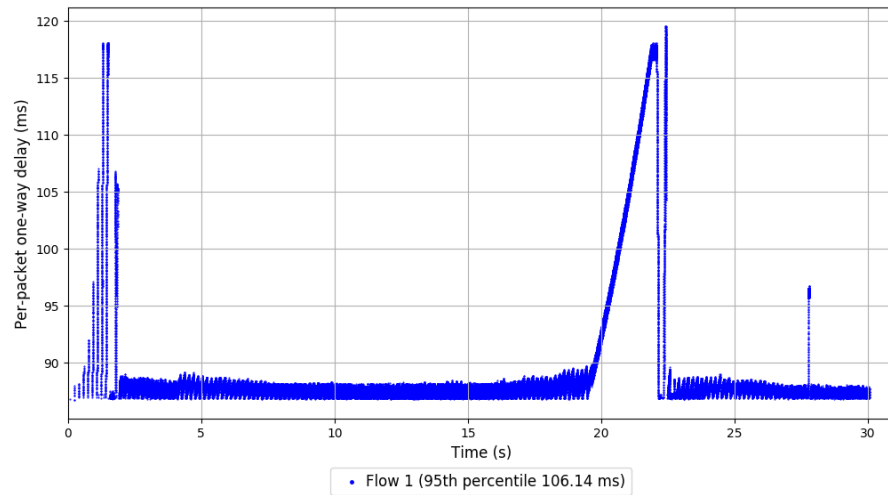
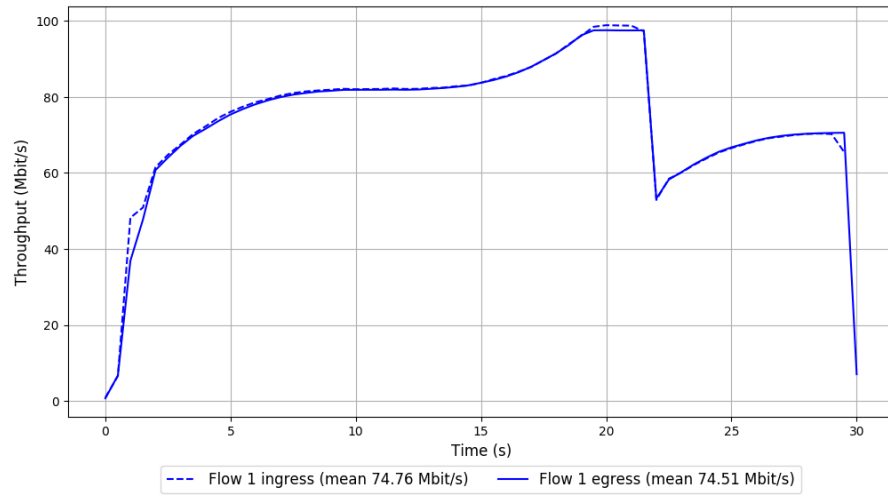
Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 14:30:14  
End at: 2018-01-16 14:30:44  
Local clock offset: 0.834 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-01-16 17:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.51 Mbit/s  
95th percentile per-packet one-way delay: 106.142 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 74.51 Mbit/s  
95th percentile per-packet one-way delay: 106.142 ms  
Loss rate: 0.34%



### Run 3: Report of TCP Cubic — Data Link

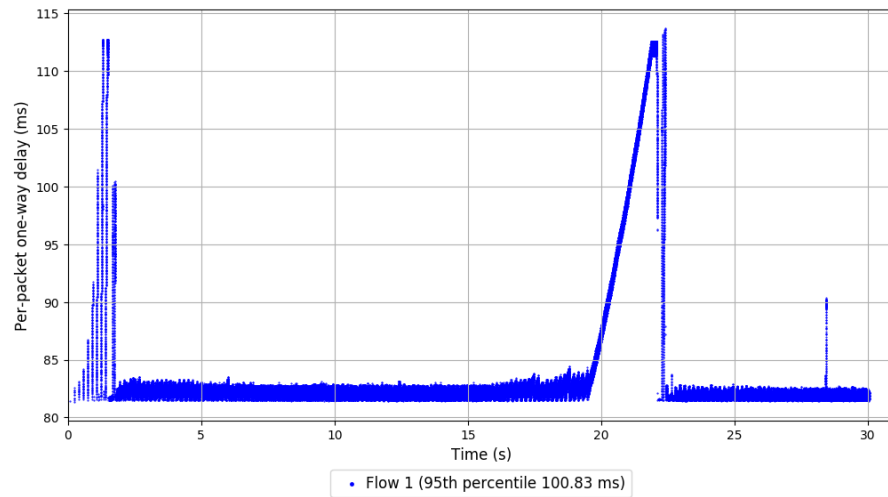
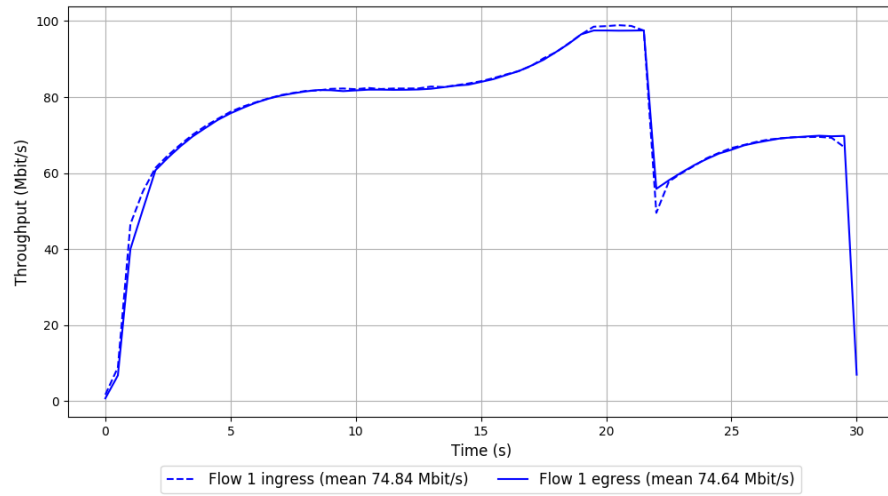


Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 14:51:59  
End at: 2018-01-16 14:52:29  
Local clock offset: 1.054 ms  
Remote clock offset: -4.078 ms

# Below is generated by plot.py at 2018-01-16 17:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.64 Mbit/s  
95th percentile per-packet one-way delay: 100.825 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 74.64 Mbit/s  
95th percentile per-packet one-way delay: 100.825 ms  
Loss rate: 0.27%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 15:12:15

End at: 2018-01-16 15:12:45

Local clock offset: 1.143 ms

Remote clock offset: 1.42 ms

# Below is generated by plot.py at 2018-01-16 17:50:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.31 Mbit/s

95th percentile per-packet one-way delay: 106.243 ms

Loss rate: 0.33%

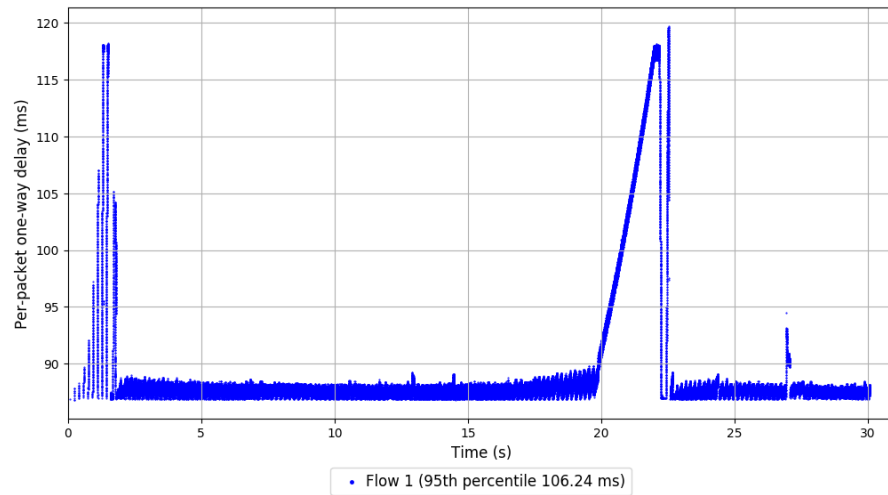
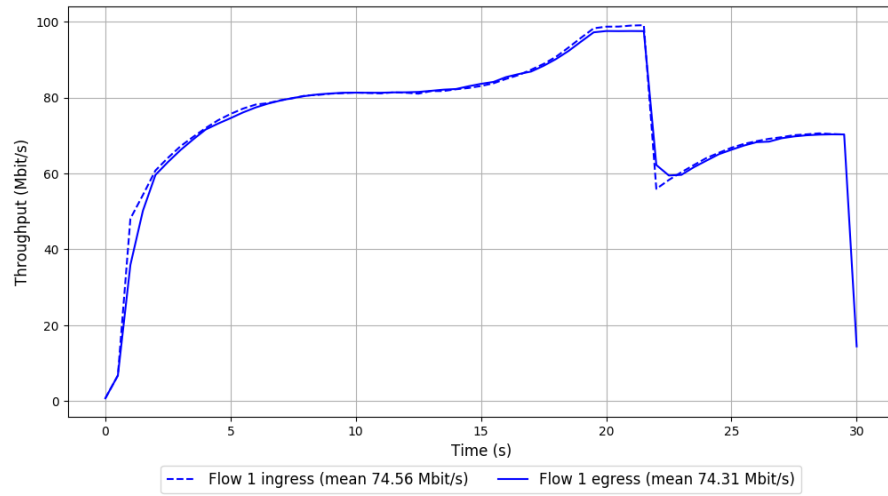
-- Flow 1:

Average throughput: 74.31 Mbit/s

95th percentile per-packet one-way delay: 106.243 ms

Loss rate: 0.33%

### Run 5: Report of TCP Cubic — Data Link

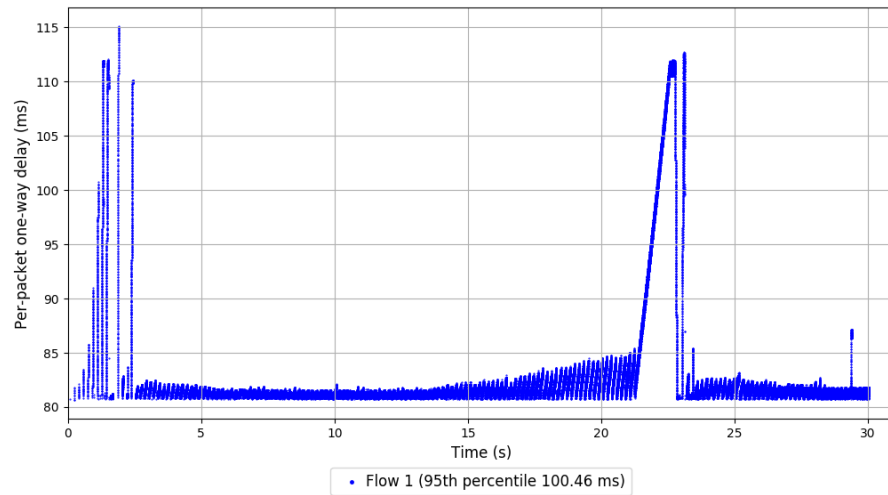
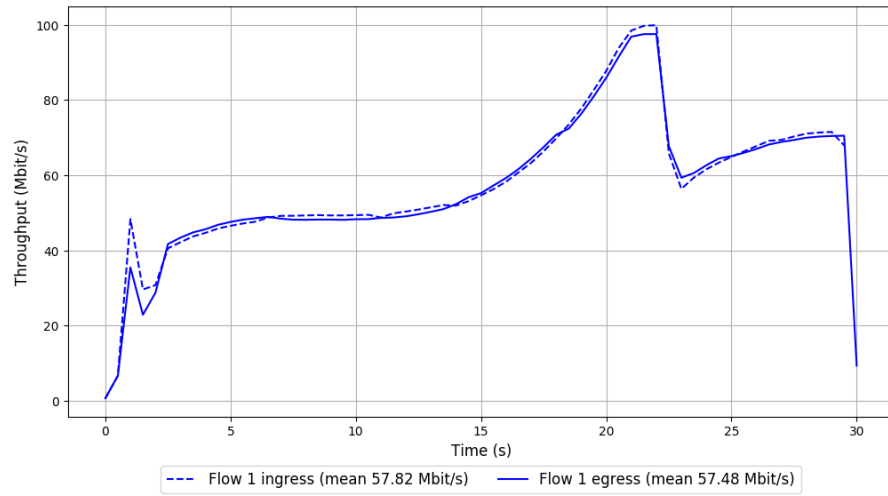


Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 15:34:04  
End at: 2018-01-16 15:34:34  
Local clock offset: 1.185 ms  
Remote clock offset: -5.122 ms

# Below is generated by plot.py at 2018-01-16 17:50:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.48 Mbit/s  
95th percentile per-packet one-way delay: 100.458 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 57.48 Mbit/s  
95th percentile per-packet one-way delay: 100.458 ms  
Loss rate: 0.59%

### Run 6: Report of TCP Cubic — Data Link



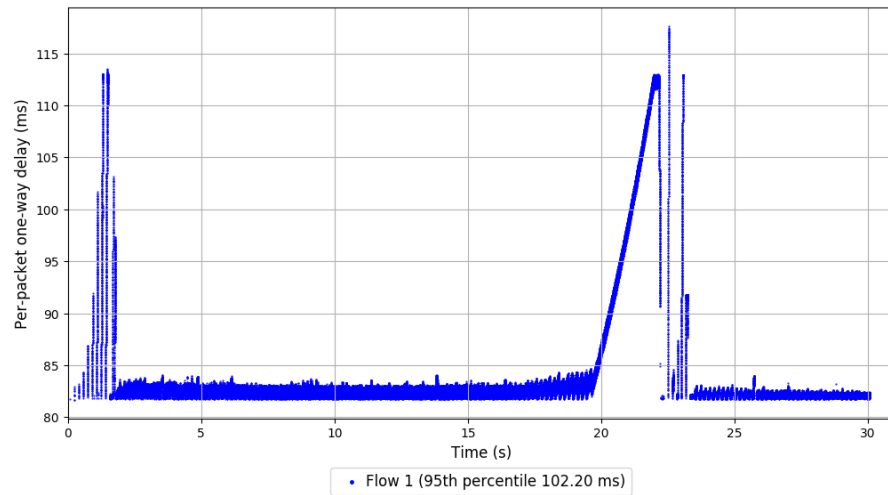
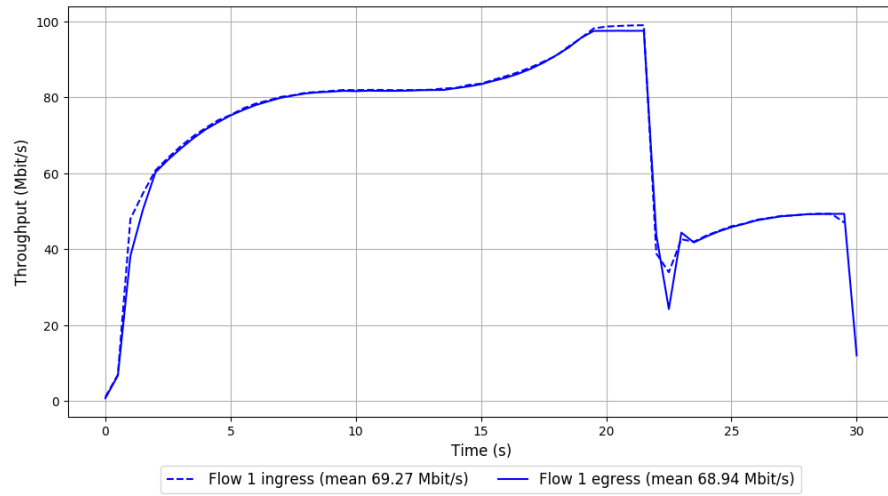
Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 15:55:54  
End at: 2018-01-16 15:56:24  
Local clock offset: 1.065 ms  
Remote clock offset: -4.209 ms

# Below is generated by plot.py at 2018-01-16 17:51:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.94 Mbit/s  
95th percentile per-packet one-way delay: 102.197 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 68.94 Mbit/s  
95th percentile per-packet one-way delay: 102.197 ms  
Loss rate: 0.48%



### Run 7: Report of TCP Cubic — Data Link

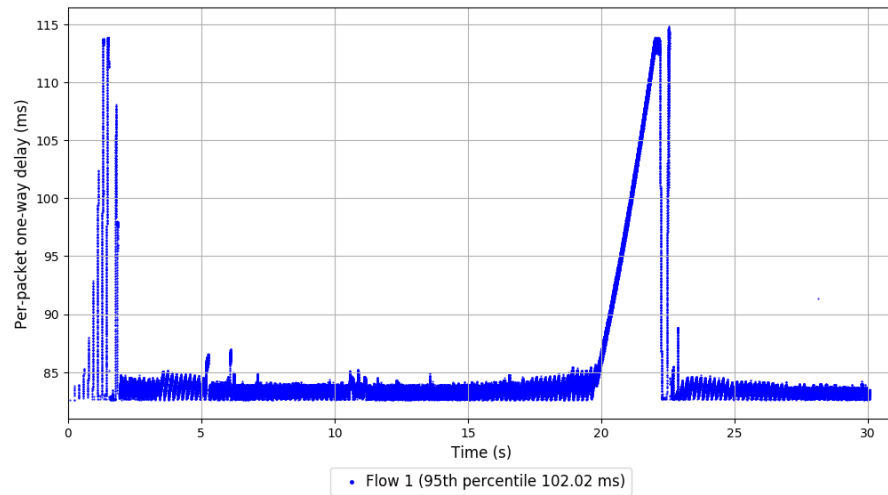
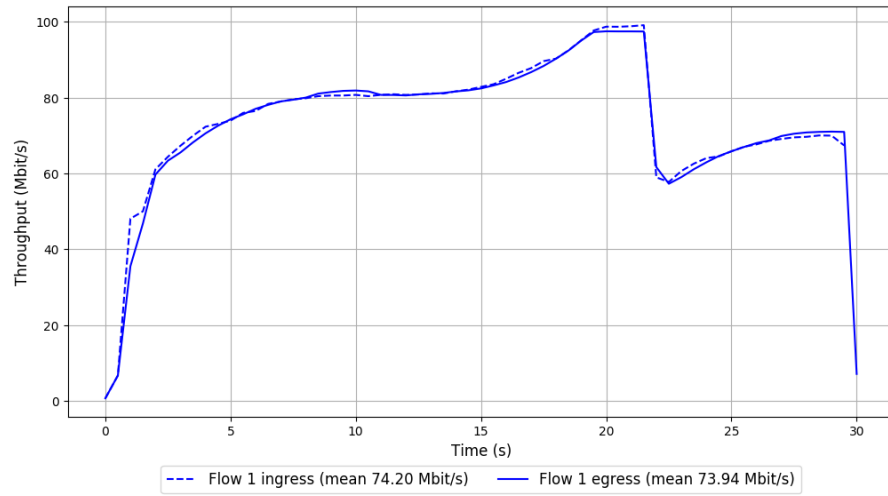


Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 16:17:40  
End at: 2018-01-16 16:18:10  
Local clock offset: 1.109 ms  
Remote clock offset: -4.779 ms

# Below is generated by plot.py at 2018-01-16 17:51:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.94 Mbit/s  
95th percentile per-packet one-way delay: 102.022 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 73.94 Mbit/s  
95th percentile per-packet one-way delay: 102.022 ms  
Loss rate: 0.36%

### Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-16 16:39:34

End at: 2018-01-16 16:40:04

Local clock offset: 1.124 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-01-16 17:51:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.71 Mbit/s

95th percentile per-packet one-way delay: 107.724 ms

Loss rate: 0.70%

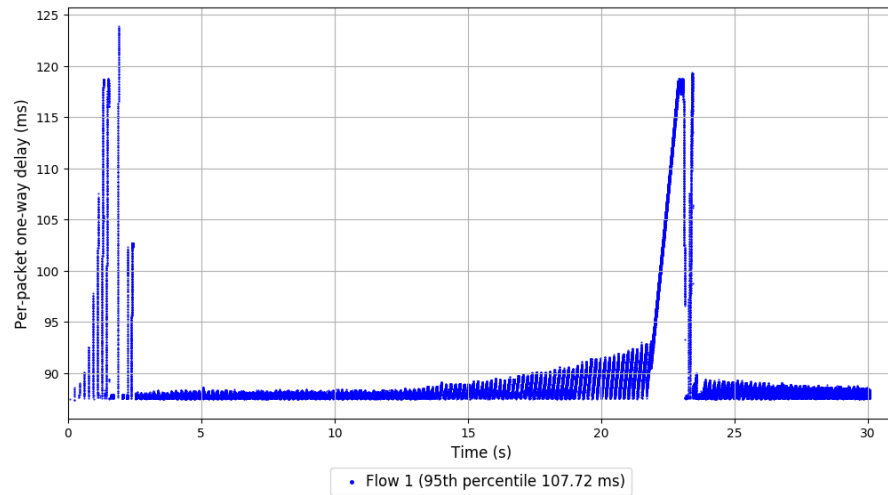
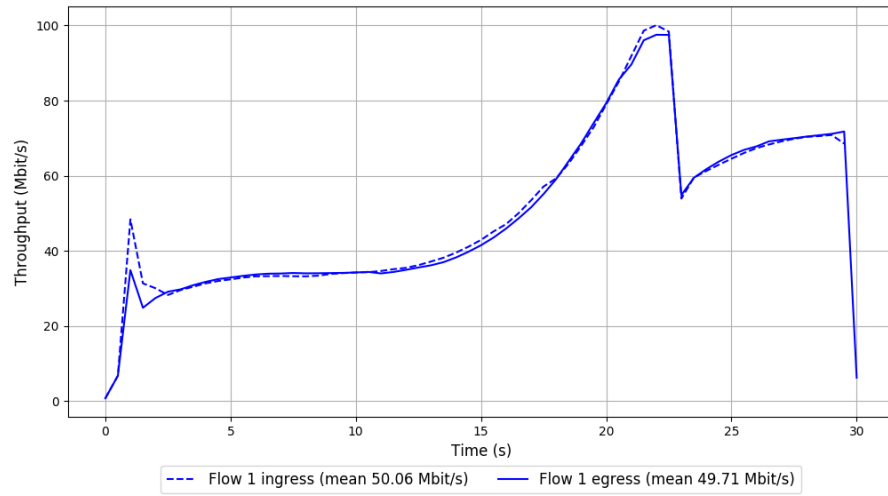
-- Flow 1:

Average throughput: 49.71 Mbit/s

95th percentile per-packet one-way delay: 107.724 ms

Loss rate: 0.70%

### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-16 17:01:32

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

Local clock offset: 1.127 ms

Remote clock offset: -6.884 ms

# Below is generated by plot.py at 2018-01-16 17:51:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 99.297 ms

Loss rate: 0.32%

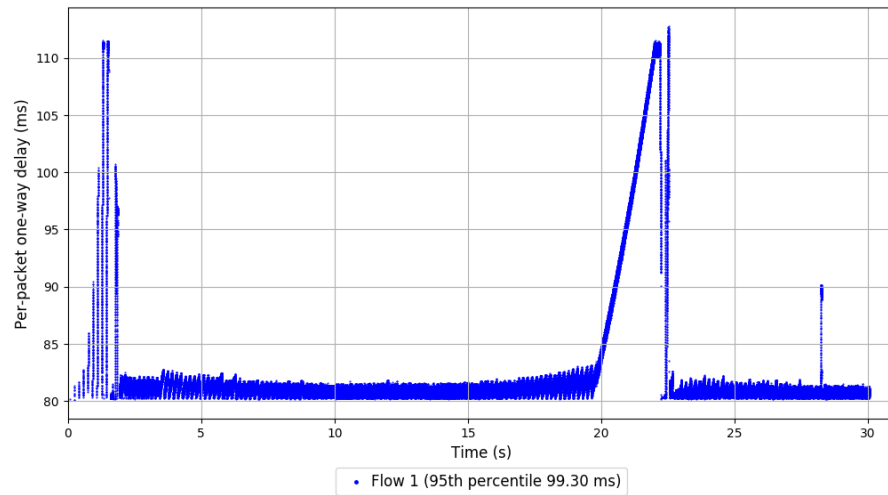
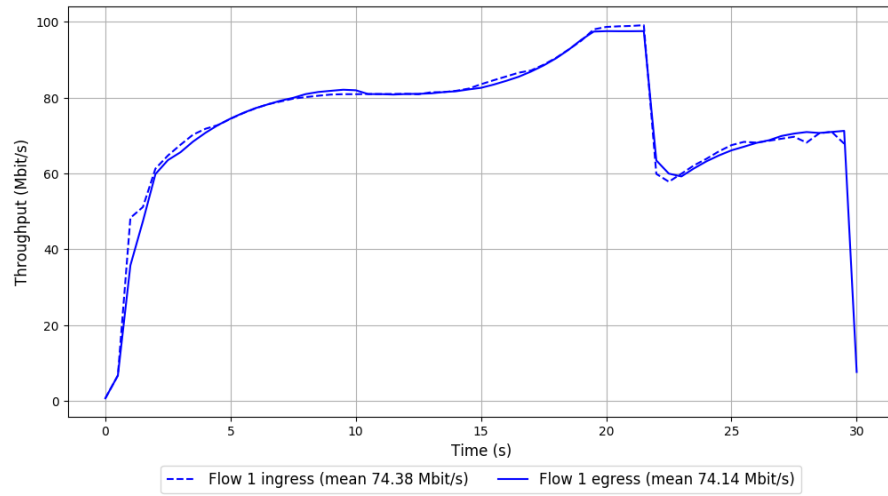
-- Flow 1:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 99.297 ms

Loss rate: 0.32%

### Run 10: Report of TCP Cubic — Data Link



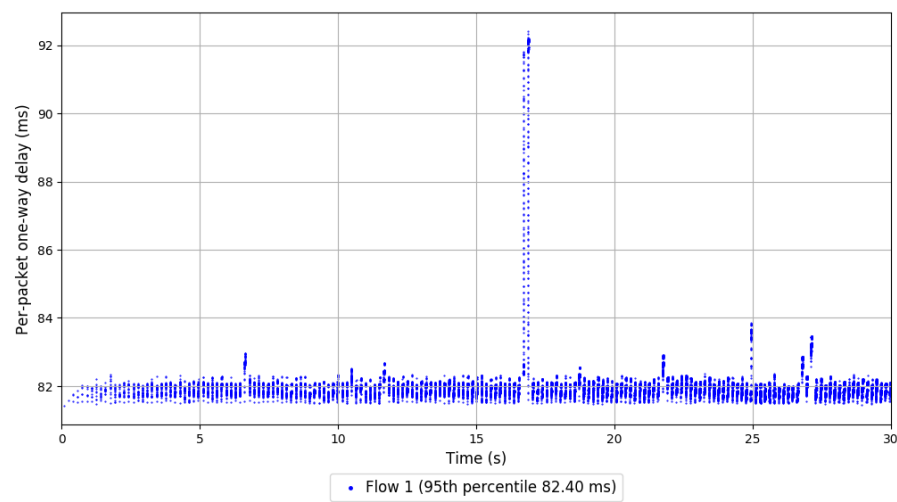
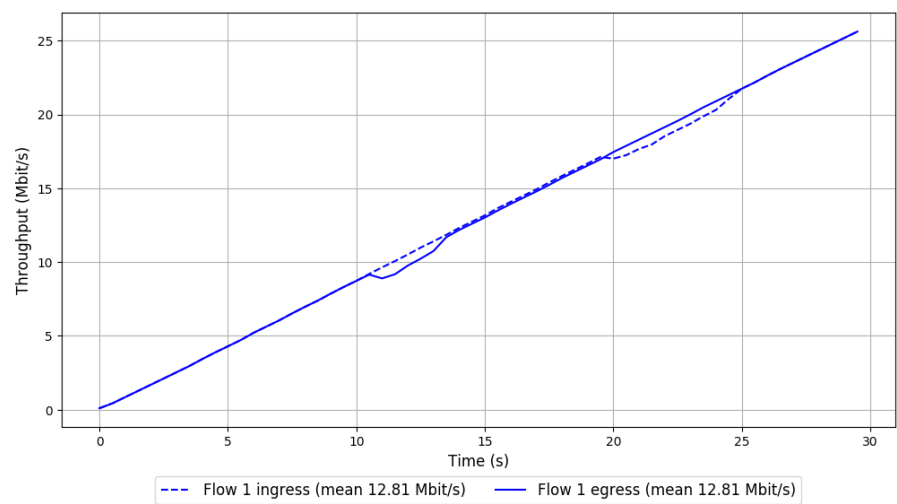
```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 13:44:04
End at: 2018-01-16 13:44:34
Local clock offset: 0.087 ms
Remote clock offset: -4.831 ms

# Below is generated by plot.py at 2018-01-16 17:51:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 82.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 82.404 ms
Loss rate: 0.00%
```



Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-16 14:05:55

End at: 2018-01-16 14:06:26

Local clock offset: 0.43 ms

Remote clock offset: 1.029 ms

# Below is generated by plot.py at 2018-01-16 17:51:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.41 Mbit/s

95th percentile per-packet one-way delay: 88.433 ms

Loss rate: 0.04%

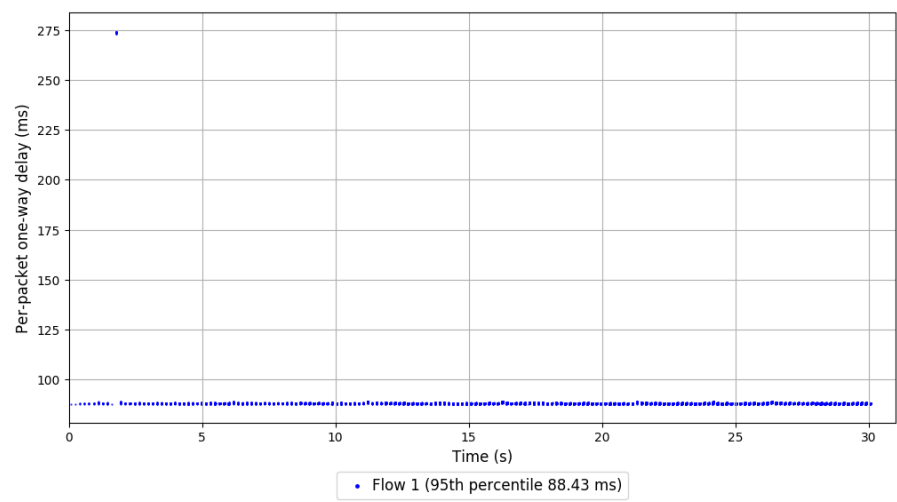
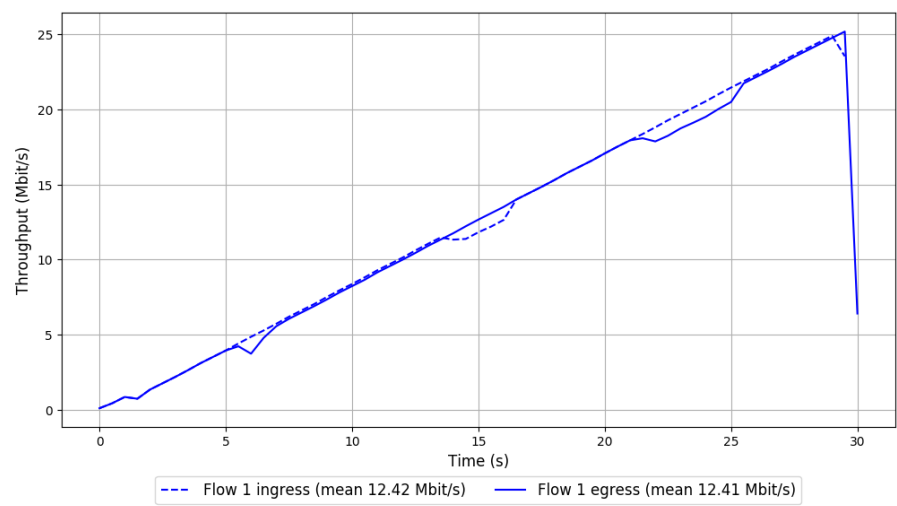
-- Flow 1:

Average throughput: 12.41 Mbit/s

95th percentile per-packet one-way delay: 88.433 ms

Loss rate: 0.04%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 14:27:53

End at: 2018-01-16 14:28:24

Local clock offset: 0.708 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-01-16 17:51:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 87.909 ms

Loss rate: 0.00%

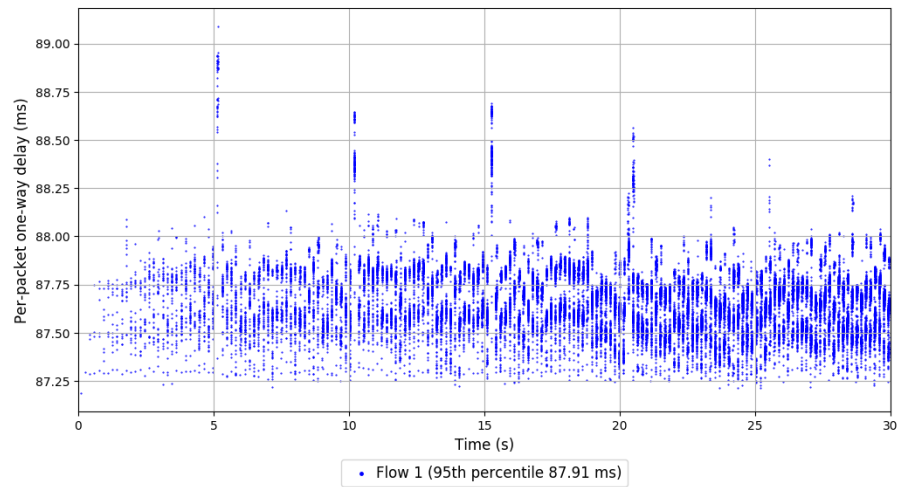
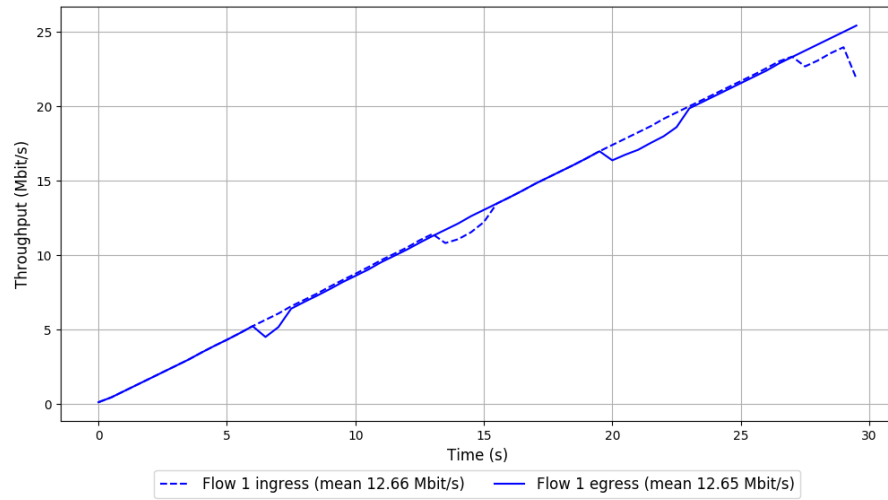
-- Flow 1:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 87.909 ms

Loss rate: 0.00%

### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-16 14:49:38

End at: 2018-01-16 14:50:08

Local clock offset: 1.091 ms

Remote clock offset: -4.16 ms

# Below is generated by plot.py at 2018-01-16 17:51:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.62 Mbit/s

95th percentile per-packet one-way delay: 82.168 ms

Loss rate: 0.01%

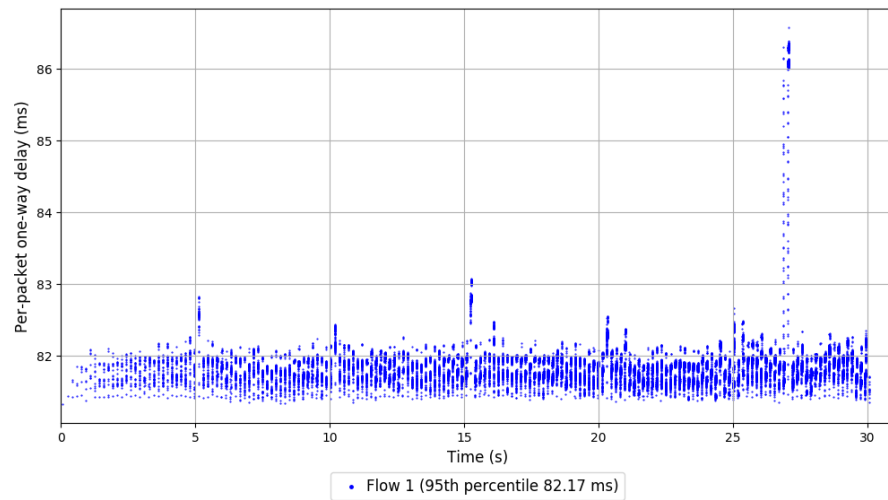
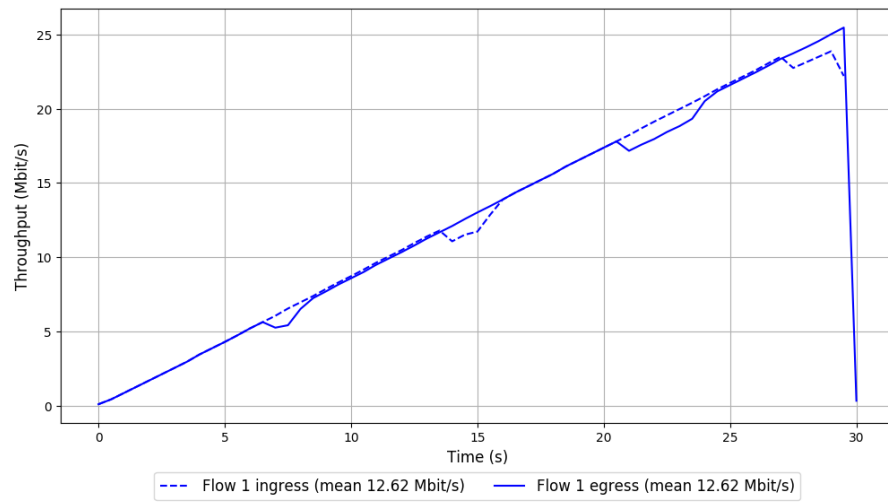
-- Flow 1:

Average throughput: 12.62 Mbit/s

95th percentile per-packet one-way delay: 82.168 ms

Loss rate: 0.01%

#### Run 4: Report of LEDBAT — Data Link



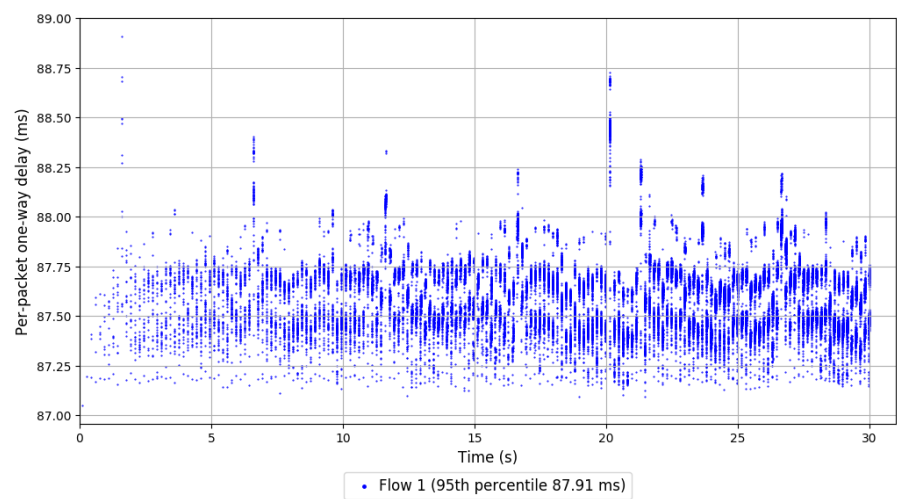
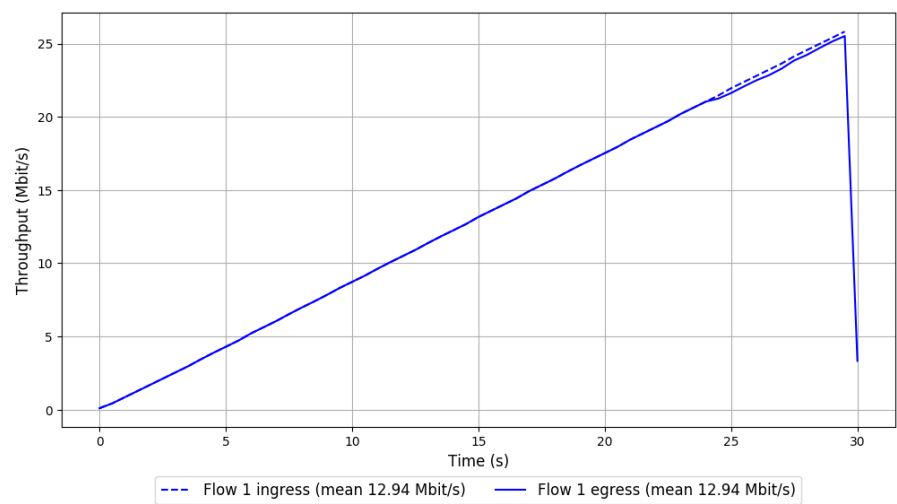
Run 5: Statistics of LEDBAT

Start at: 2018-01-16 15:09:55  
End at: 2018-01-16 15:10:25  
Local clock offset: 1.146 ms  
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2018-01-16 17:51:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.94 Mbit/s  
95th percentile per-packet one-way delay: 87.910 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.94 Mbit/s  
95th percentile per-packet one-way delay: 87.910 ms  
Loss rate: 0.00%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-16 15:31:43

End at: 2018-01-16 15:32:13

Local clock offset: 1.173 ms

Remote clock offset: 0.443 ms

# Below is generated by plot.py at 2018-01-16 17:51:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 89.232 ms

Loss rate: 0.00%

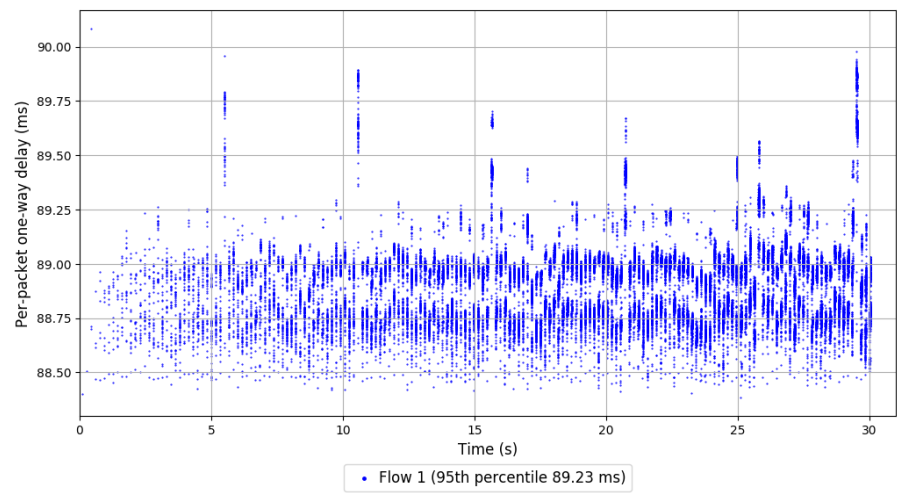
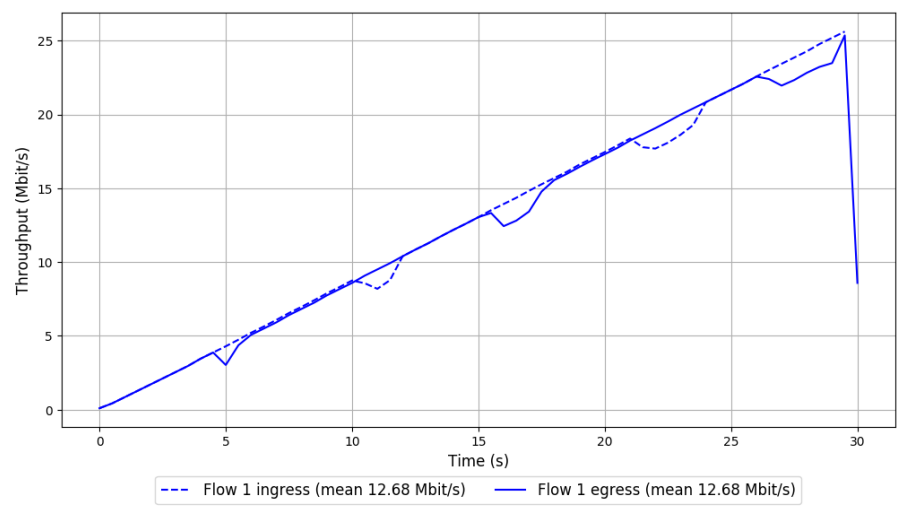
-- Flow 1:

Average throughput: 12.68 Mbit/s

95th percentile per-packet one-way delay: 89.232 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-16 15:53:34

End at: 2018-01-16 15:54:04

Local clock offset: 1.06 ms

Remote clock offset: 1.441 ms

# Below is generated by plot.py at 2018-01-16 17:51:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 89.807 ms

Loss rate: 0.00%

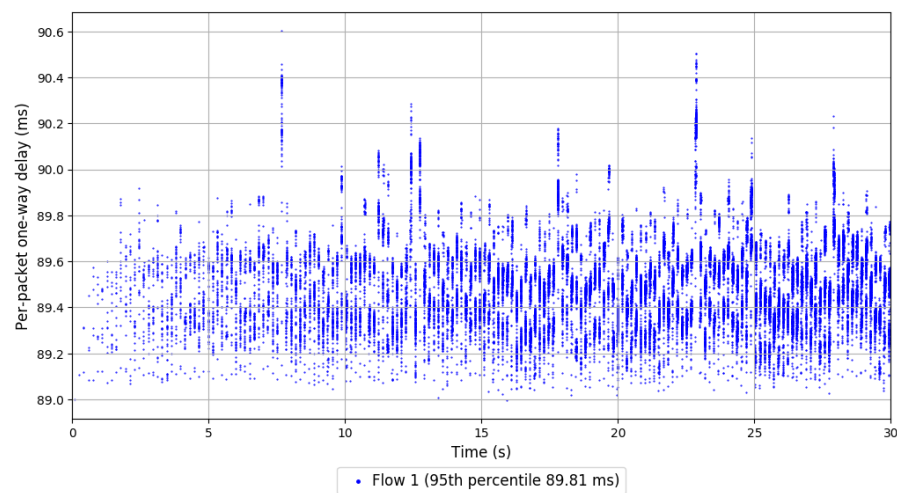
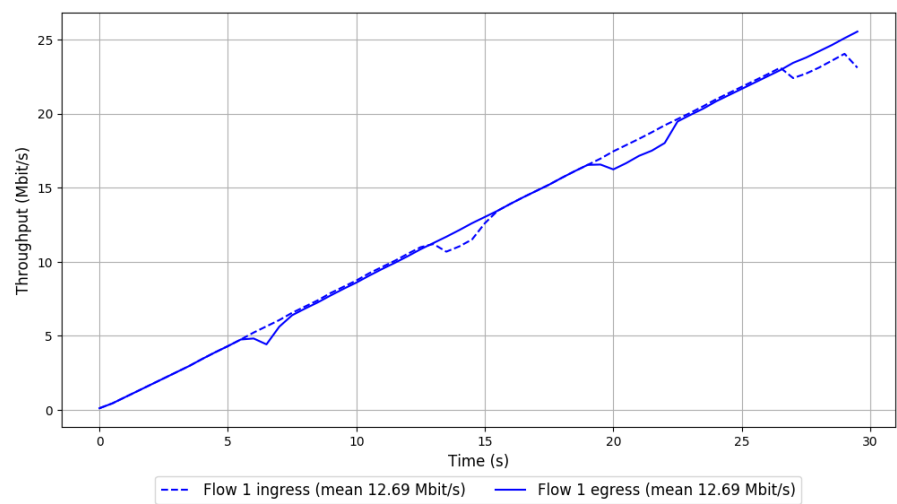
-- Flow 1:

Average throughput: 12.69 Mbit/s

95th percentile per-packet one-way delay: 89.807 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-16 16:15:20

End at: 2018-01-16 16:15:50

Local clock offset: 1.12 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-01-16 17:51:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 88.119 ms

Loss rate: 0.00%

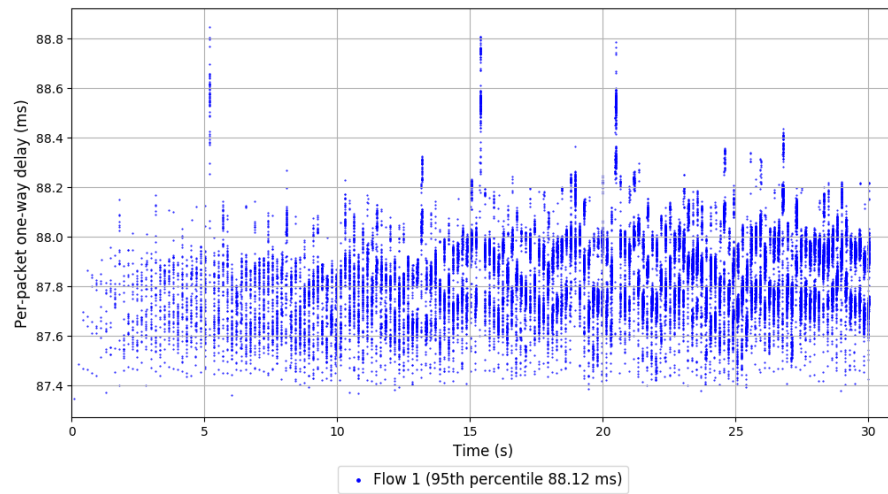
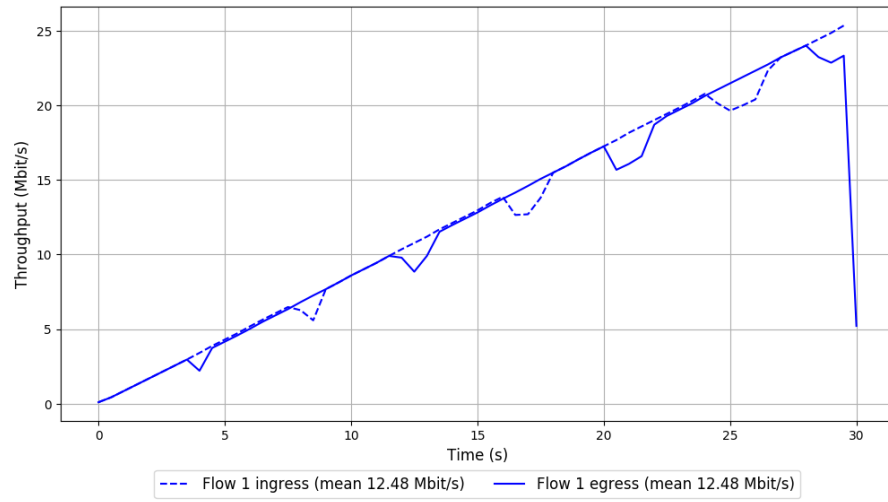
-- Flow 1:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 88.119 ms

Loss rate: 0.00%

# Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-16 16:37:14

End at: 2018-01-16 16:37:44

Local clock offset: 1.038 ms

Remote clock offset: 0.563 ms

# Below is generated by plot.py at 2018-01-16 17:51:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 89.248 ms

Loss rate: 0.00%

-- Flow 1:

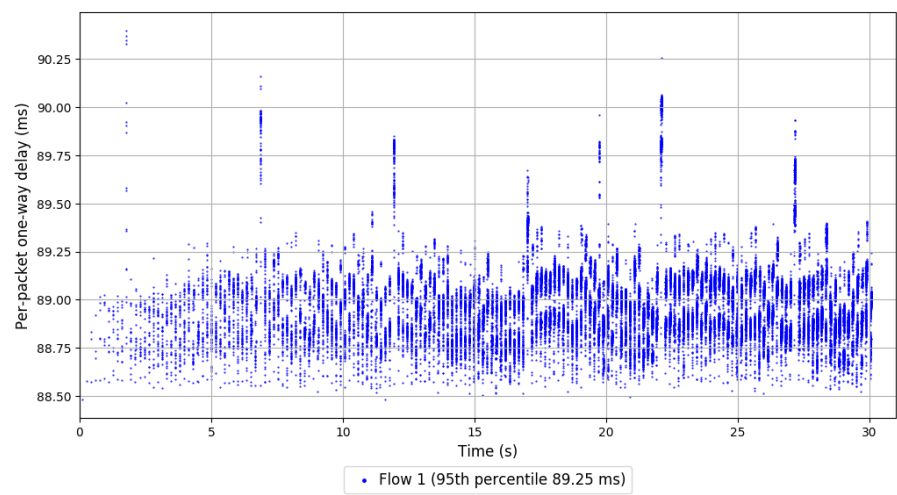
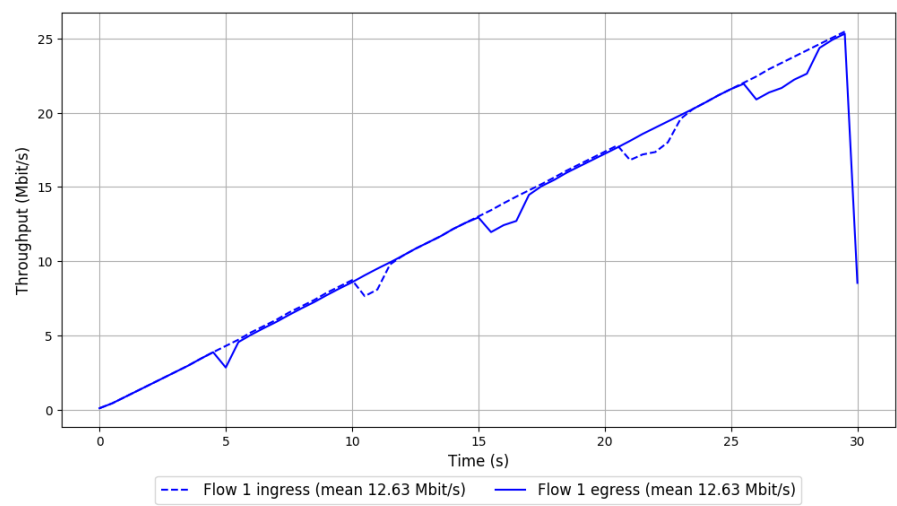
Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 89.248 ms

Loss rate: 0.00%



Run 9: Report of LEDBAT — Data Link

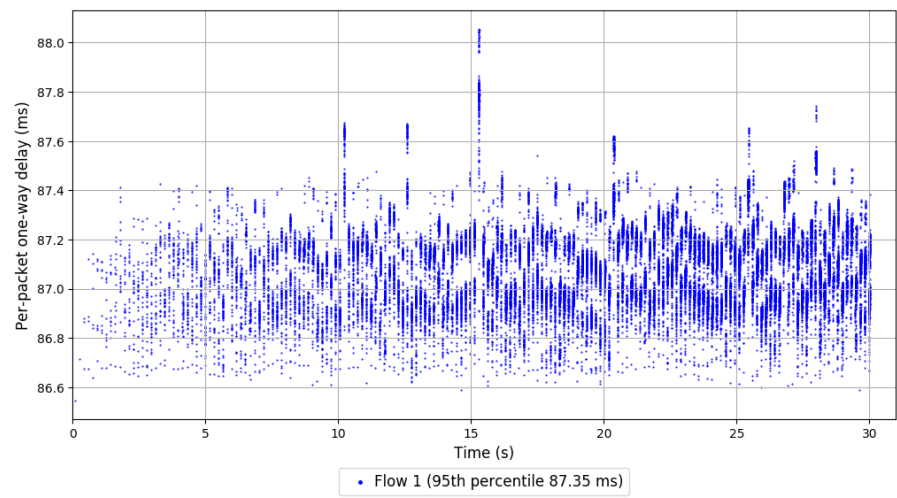
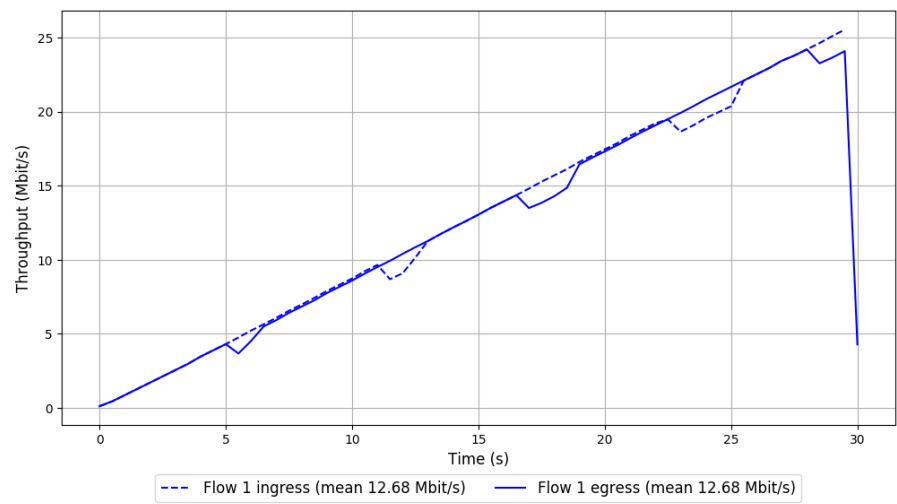


Run 10: Statistics of LEDBAT

Start at: 2018-01-16 16:59:12  
End at: 2018-01-16 16:59:42  
Local clock offset: 1.126 ms  
Remote clock offset: -1.904 ms

# Below is generated by plot.py at 2018-01-16 17:51:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.68 Mbit/s  
95th percentile per-packet one-way delay: 87.353 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.68 Mbit/s  
95th percentile per-packet one-way delay: 87.353 ms  
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-01-16 13:42:51

End at: 2018-01-16 13:43:21

Local clock offset: 0.072 ms

Remote clock offset: -3.97 ms

# Below is generated by plot.py at 2018-01-16 17:52:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 90.909 ms

Loss rate: 1.42%

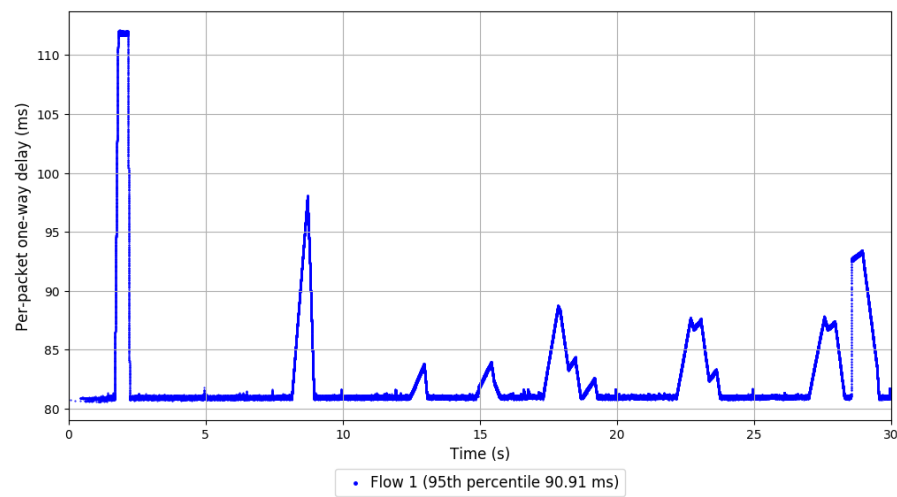
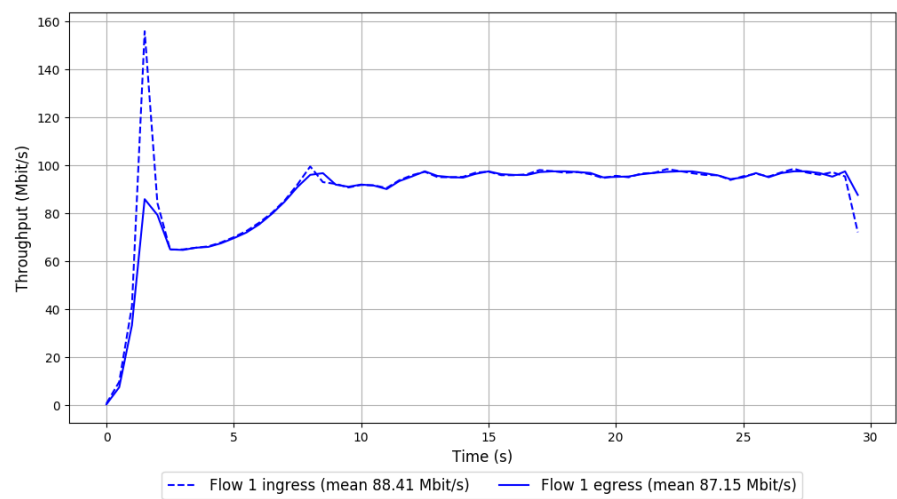
-- Flow 1:

Average throughput: 87.15 Mbit/s

95th percentile per-packet one-way delay: 90.909 ms

Loss rate: 1.42%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 14:04:42

End at: 2018-01-16 14:05:12

Local clock offset: 0.409 ms

Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2018-01-16 17:52:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 118.081 ms

Loss rate: 1.56%

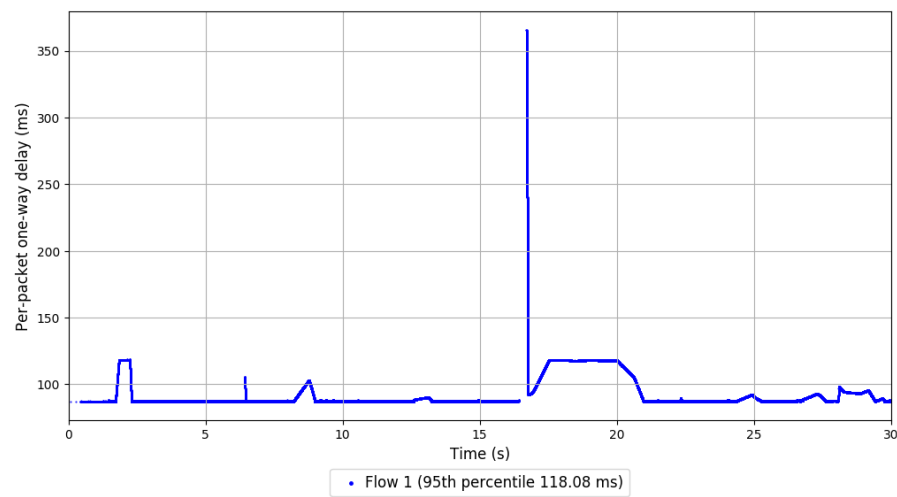
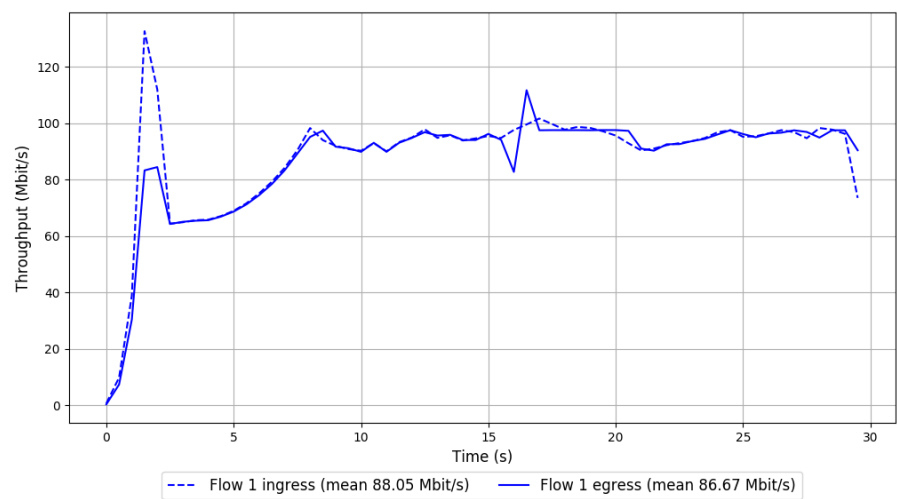
-- Flow 1:

Average throughput: 86.67 Mbit/s

95th percentile per-packet one-way delay: 118.081 ms

Loss rate: 1.56%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-16 14:26:40

End at: 2018-01-16 14:27:10

Local clock offset: 0.752 ms

Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-01-16 17:52:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 99.936 ms

Loss rate: 1.42%

-- Flow 1:

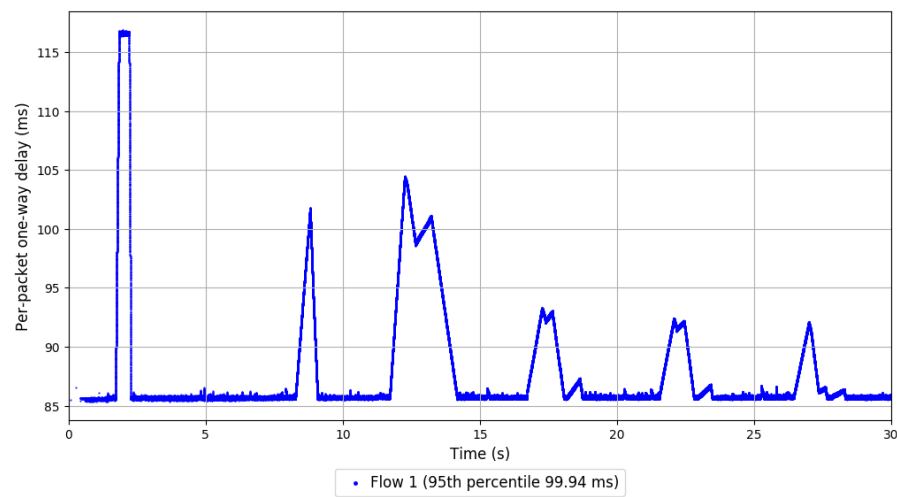
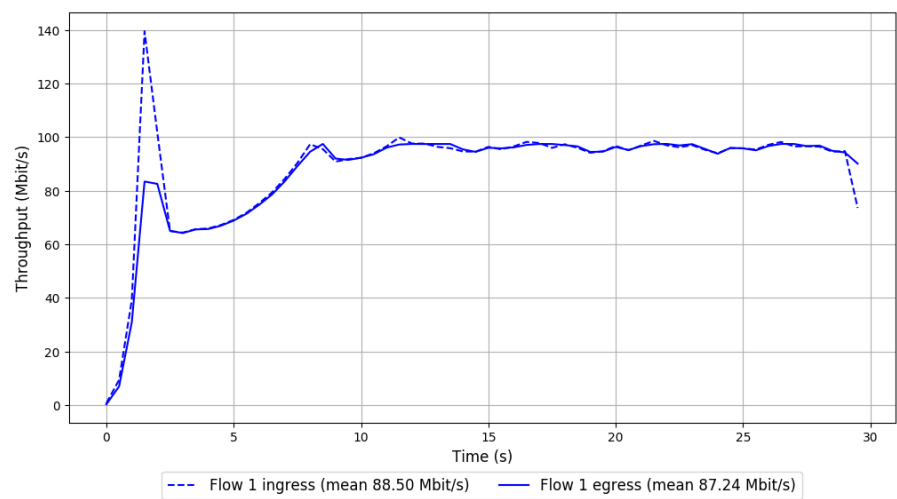
Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 99.936 ms

Loss rate: 1.42%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-16 14:48:25

End at: 2018-01-16 14:48:55

Local clock offset: 1.102 ms

Remote clock offset: 1.605 ms

# Below is generated by plot.py at 2018-01-16 17:52:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.82 Mbit/s

95th percentile per-packet one-way delay: 98.863 ms

Loss rate: 1.44%

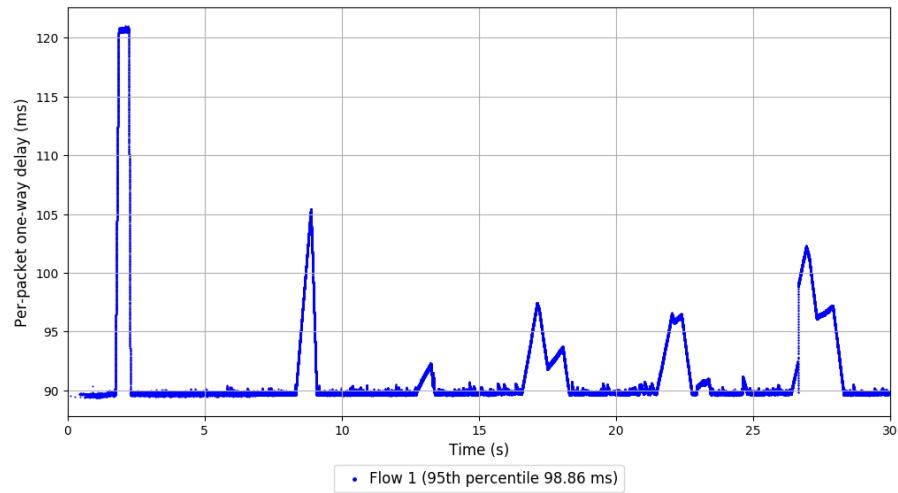
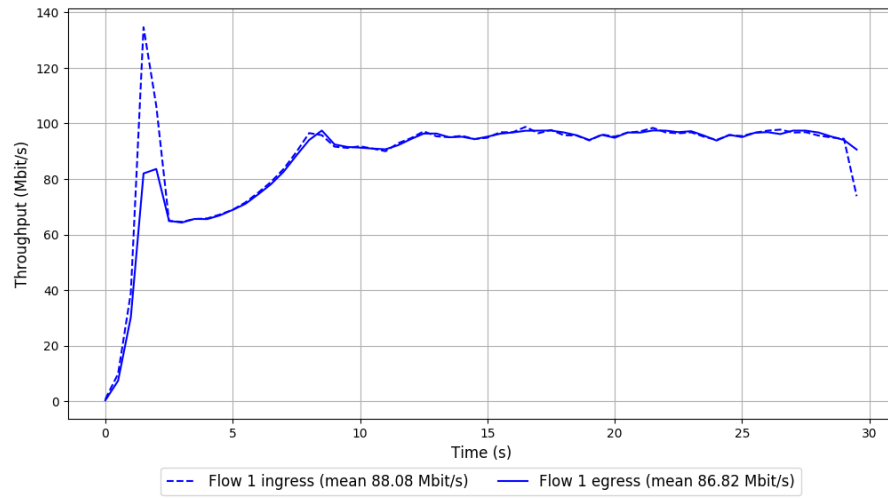
-- Flow 1:

Average throughput: 86.82 Mbit/s

95th percentile per-packet one-way delay: 98.863 ms

Loss rate: 1.44%

#### Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-16 15:08:42

End at: 2018-01-16 15:09:12

Local clock offset: 1.147 ms

# Below is generated by plot.py at 2018-01-16 17:52:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 113.528 ms

Loss rate: 1.44%

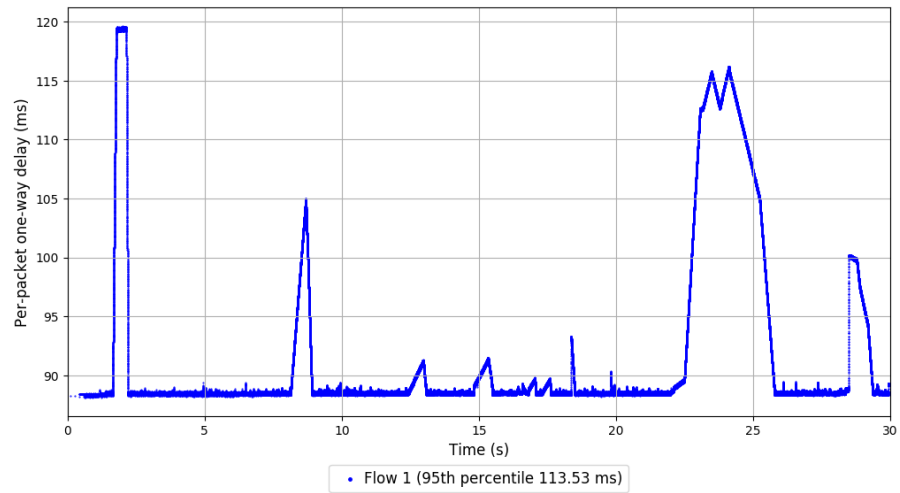
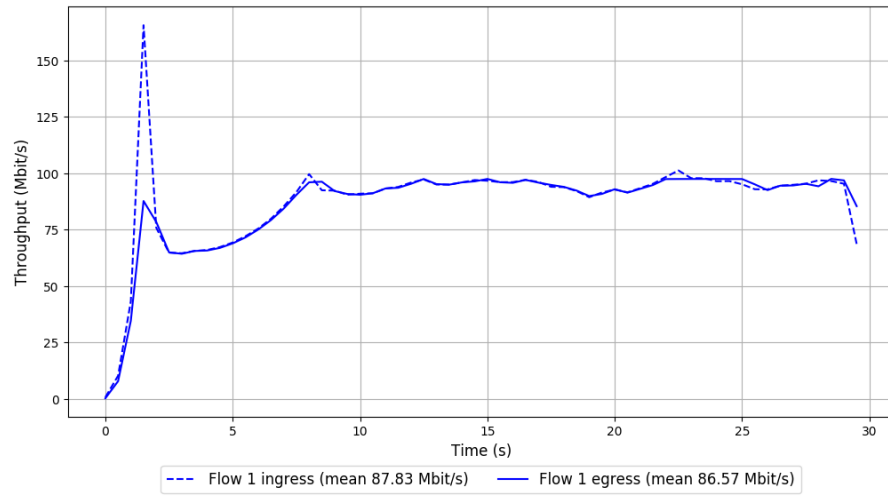
-- Flow 1:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 113.528 ms

Loss rate: 1.44%

### Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

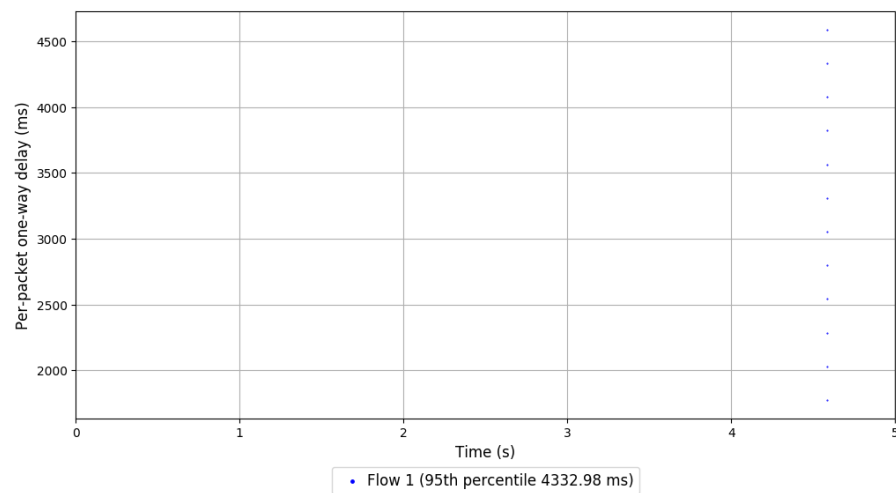
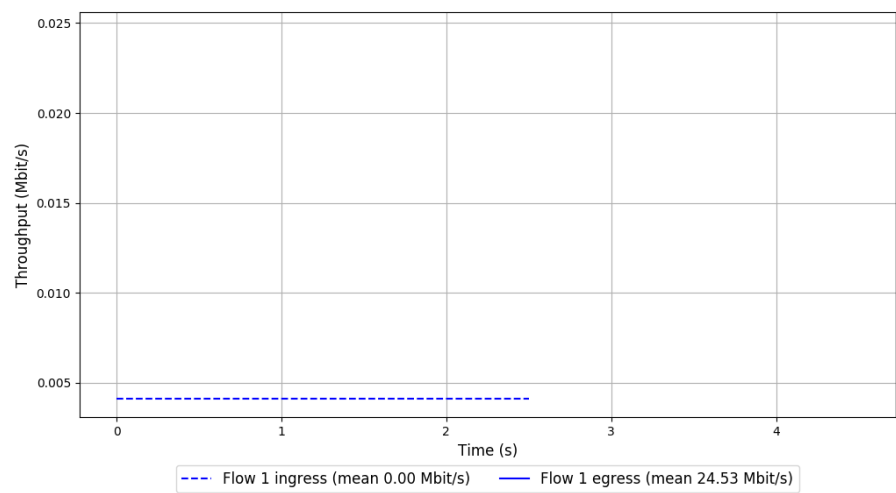
Start at: 2018-01-16 15:30:34

End at: 2018-01-16 15:31:04

Local clock offset: 1.16 ms

Remote clock offset: 1.336 ms

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-16 15:52:25

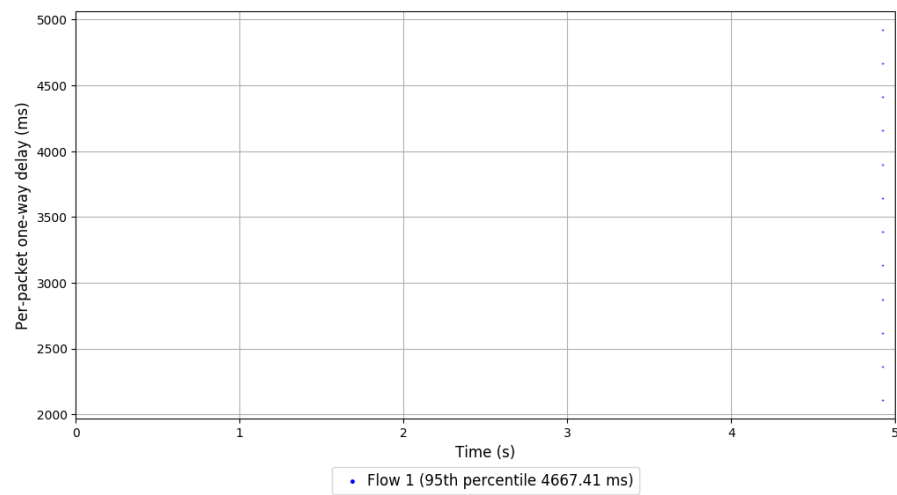
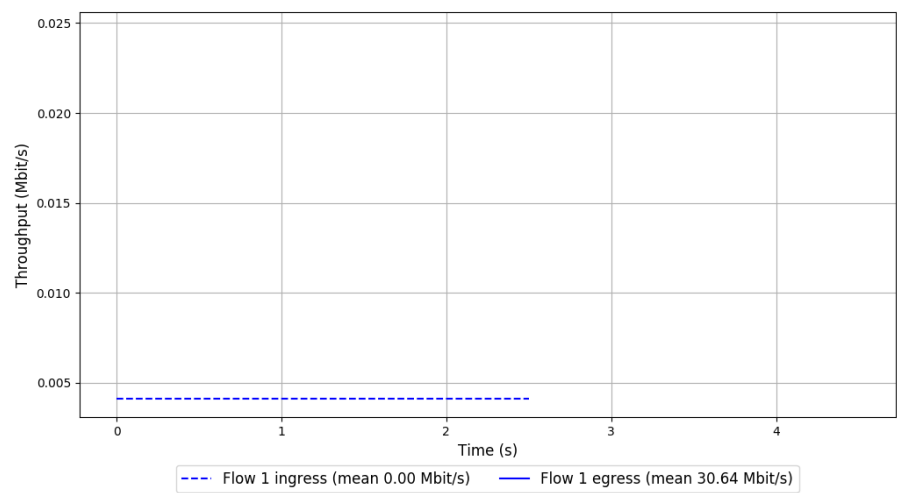
End at: 2018-01-16 15:52:55

Local clock offset: 1.138 ms

Remote clock offset: -4.179 ms



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

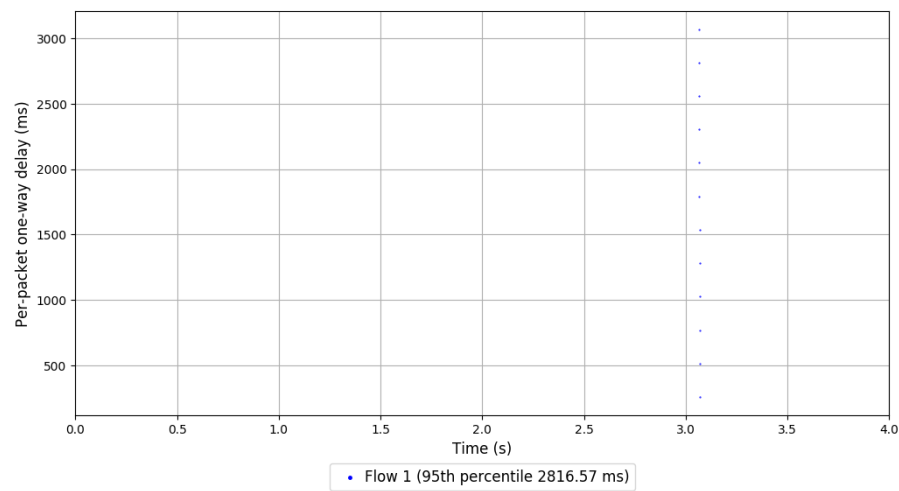
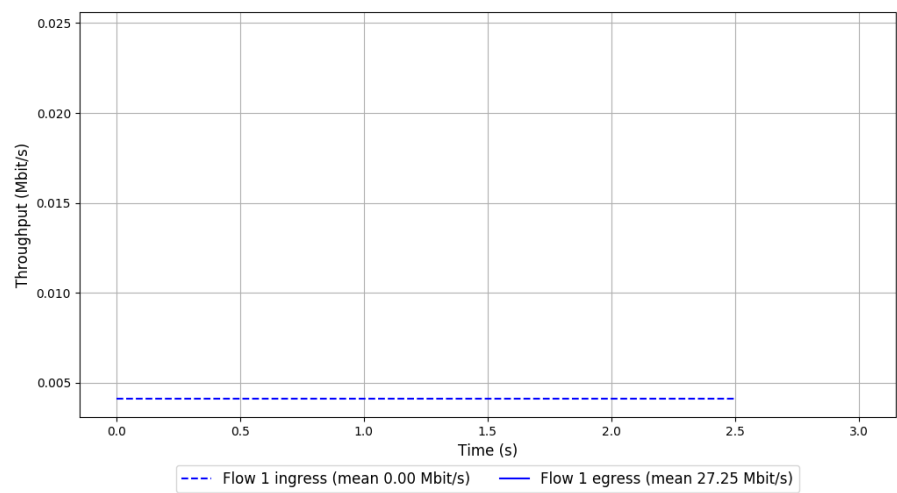
Start at: 2018-01-16 16:14:11

End at: 2018-01-16 16:14:41

Local clock offset: 1.129 ms

Remote clock offset: 0.929 ms

Run 8: Report of PCC — Data Link

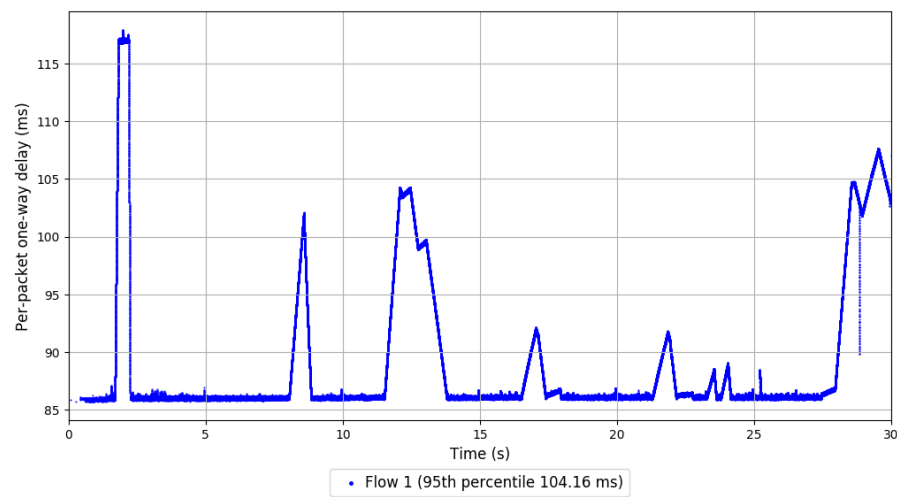
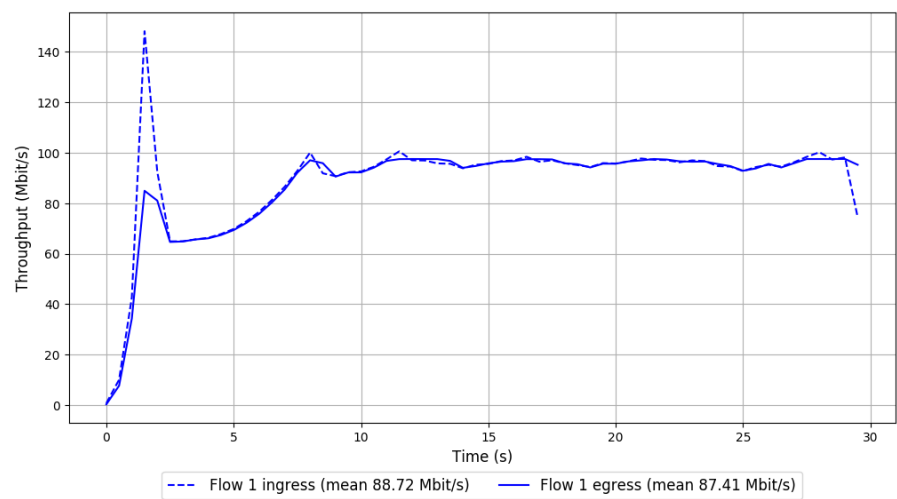


Run 9: Statistics of PCC

Start at: 2018-01-16 16:36:00  
End at: 2018-01-16 16:36:30  
Local clock offset: 1.111 ms  
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-01-16 17:52:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.41 Mbit/s  
95th percentile per-packet one-way delay: 104.160 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 87.41 Mbit/s  
95th percentile per-packet one-way delay: 104.160 ms  
Loss rate: 1.41%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-16 16:57:59

End at: 2018-01-16 16:58:29

Local clock offset: 1.127 ms

Remote clock offset: -1.8 ms

# Below is generated by plot.py at 2018-01-16 17:52:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.36 Mbit/s

95th percentile per-packet one-way delay: 101.398 ms

Loss rate: 1.51%

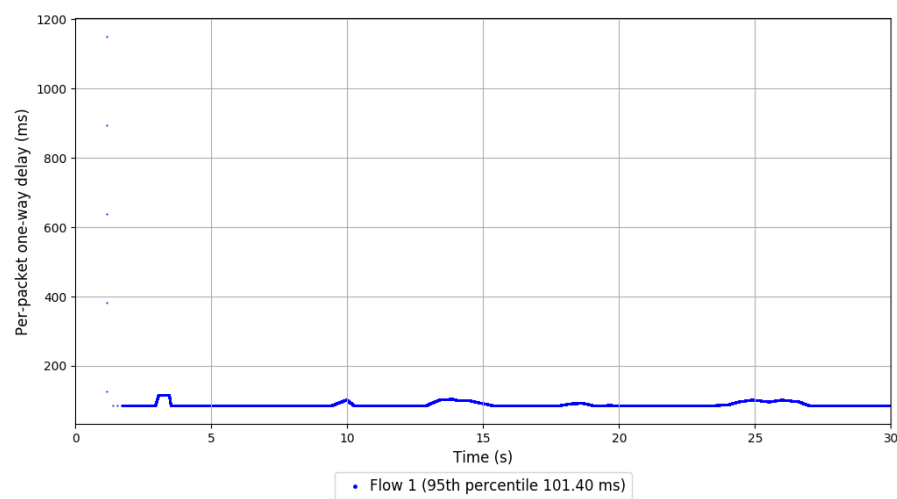
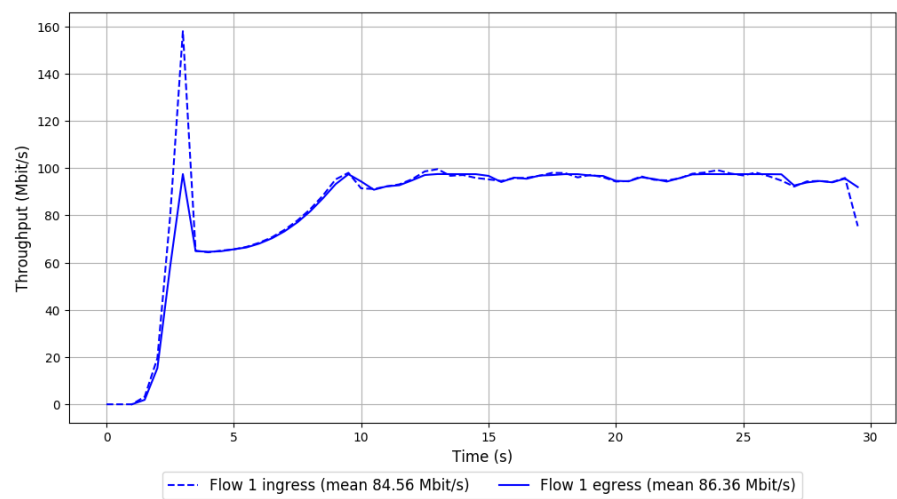
-- Flow 1:

Average throughput: 86.36 Mbit/s

95th percentile per-packet one-way delay: 101.398 ms

Loss rate: 1.51%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 13:52:23

End at: 2018-01-16 13:52:53

Local clock offset: 0.226 ms

Remote clock offset: 0.775 ms

# Below is generated by plot.py at 2018-01-16 17:52:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 105.892 ms

Loss rate: 0.19%

-- Flow 1:

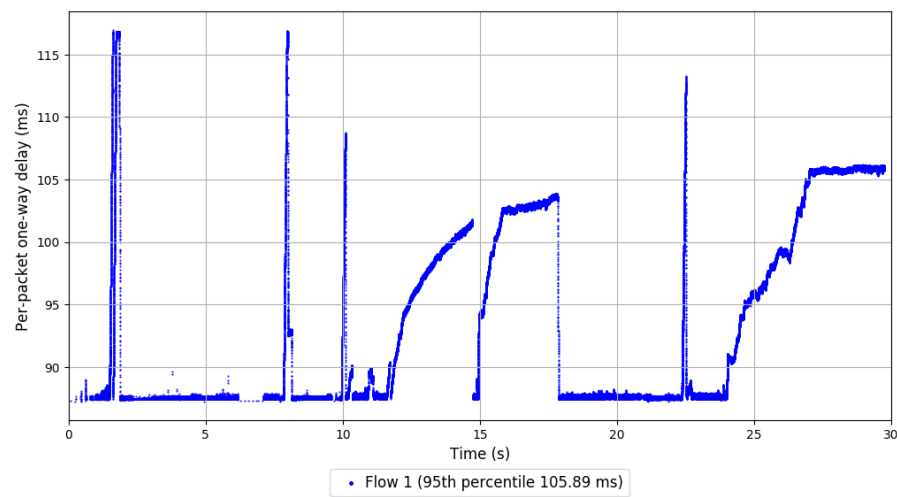
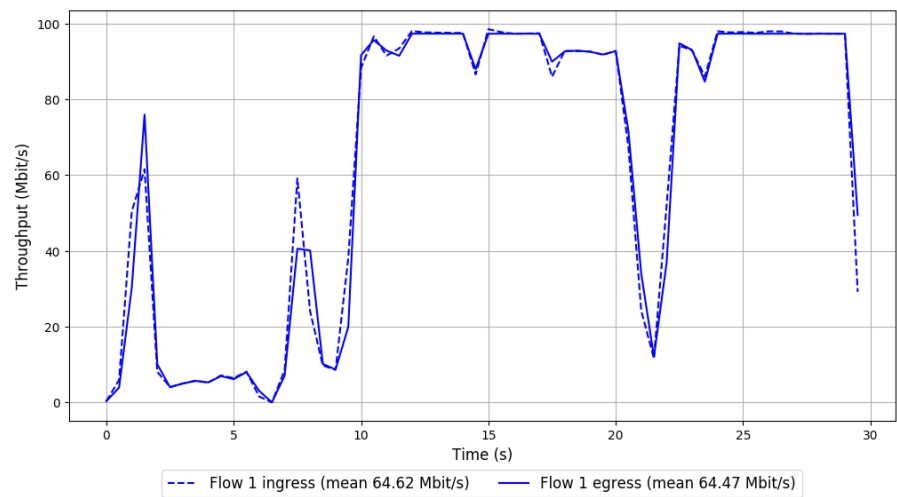
Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 105.892 ms

Loss rate: 0.19%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 14:14:20

End at: 2018-01-16 14:14:50

Local clock offset: 0.557 ms

Remote clock offset: 1.816 ms

# Below is generated by plot.py at 2018-01-16 17:53:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.48 Mbit/s

95th percentile per-packet one-way delay: 105.183 ms

Loss rate: 0.19%

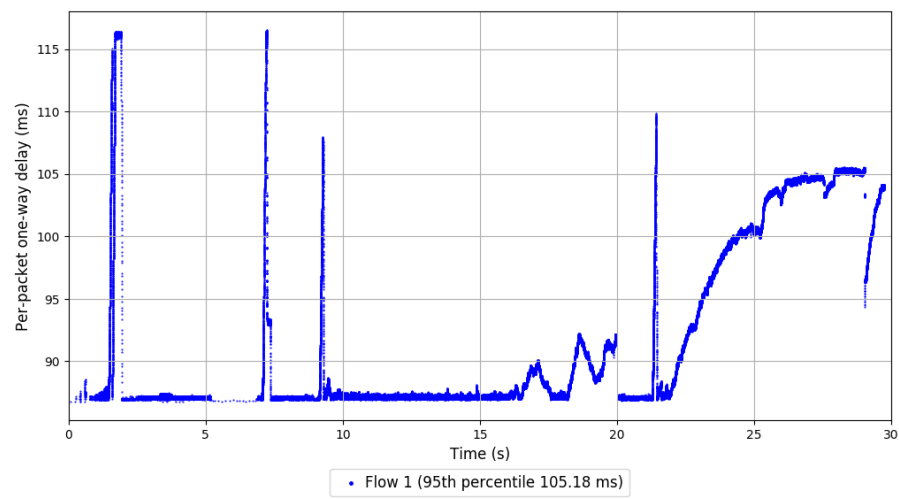
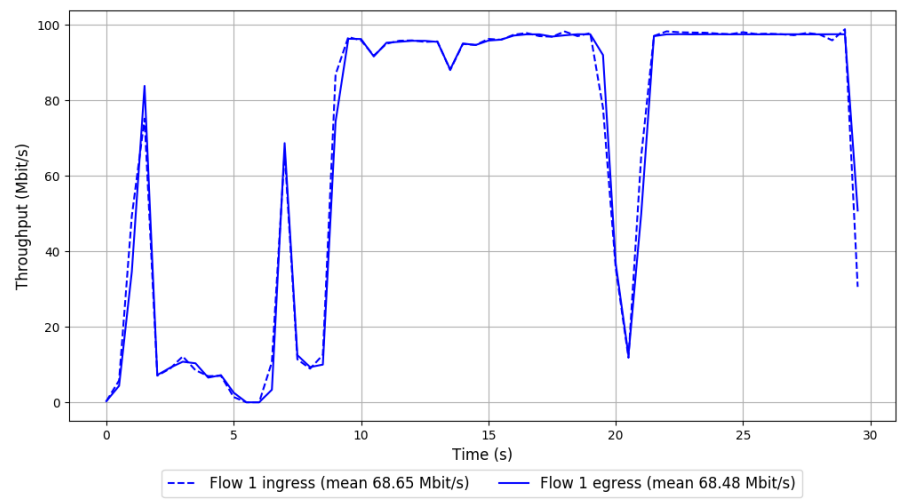
-- Flow 1:

Average throughput: 68.48 Mbit/s

95th percentile per-packet one-way delay: 105.183 ms

Loss rate: 0.19%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 14:36:12

End at: 2018-01-16 14:36:42

Local clock offset: 0.912 ms

Remote clock offset: -4.873 ms

# Below is generated by plot.py at 2018-01-16 17:53:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 88.466 ms

Loss rate: 0.20%

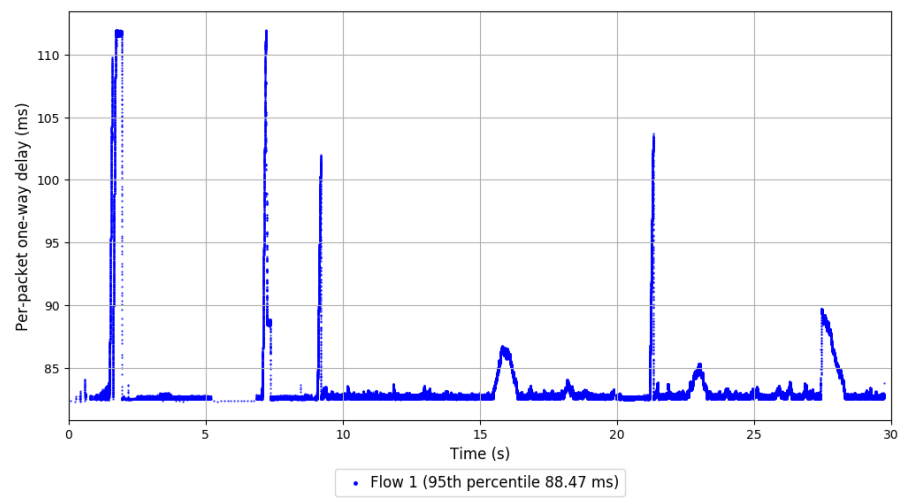
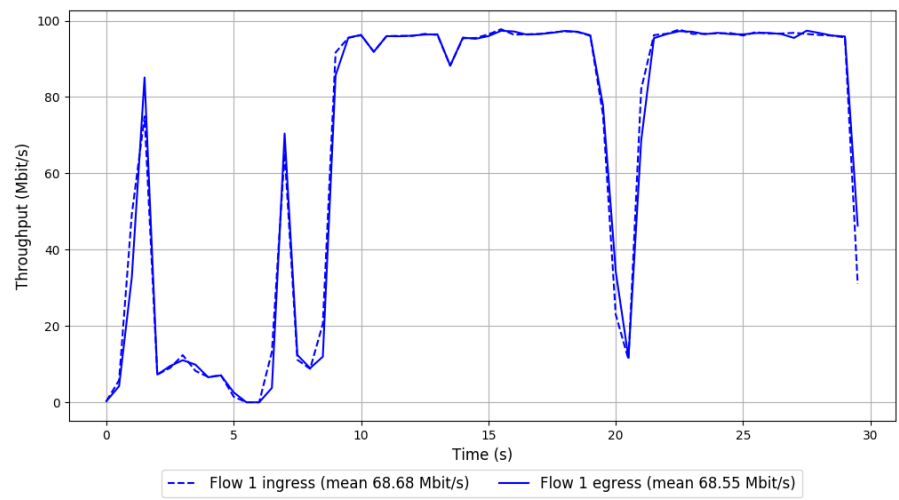
-- Flow 1:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 88.466 ms

Loss rate: 0.20%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 14:58:02

End at: 2018-01-16 14:58:32

Local clock offset: 1.111 ms

Remote clock offset: 1.566 ms

# Below is generated by plot.py at 2018-01-16 17:53:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 96.519 ms

Loss rate: 0.11%

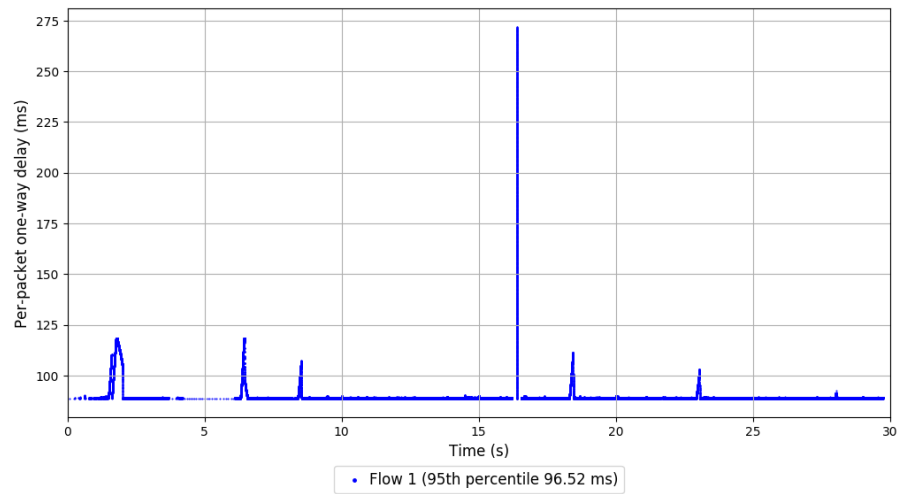
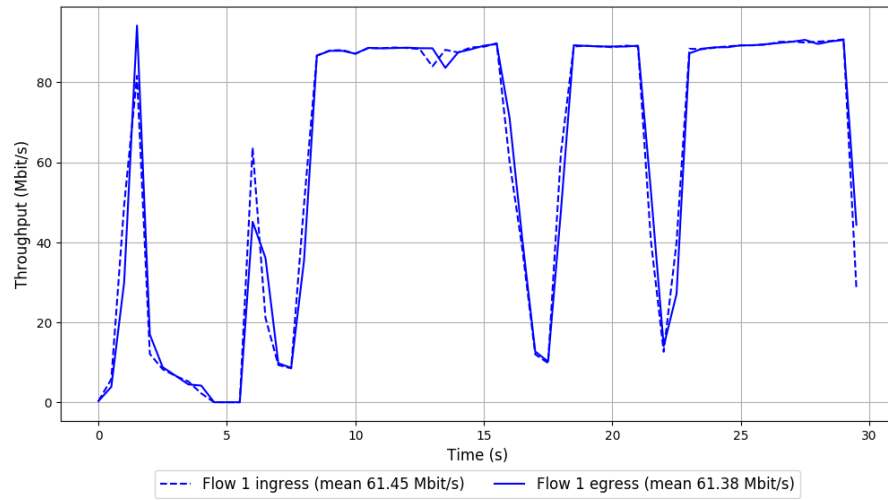
-- Flow 1:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 96.519 ms

Loss rate: 0.11%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 15:18:13

End at: 2018-01-16 15:18:43

Local clock offset: 1.143 ms

Remote clock offset: -0.451 ms

# Below is generated by plot.py at 2018-01-16 17:53:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 102.194 ms

Loss rate: 0.20%

-- Flow 1:

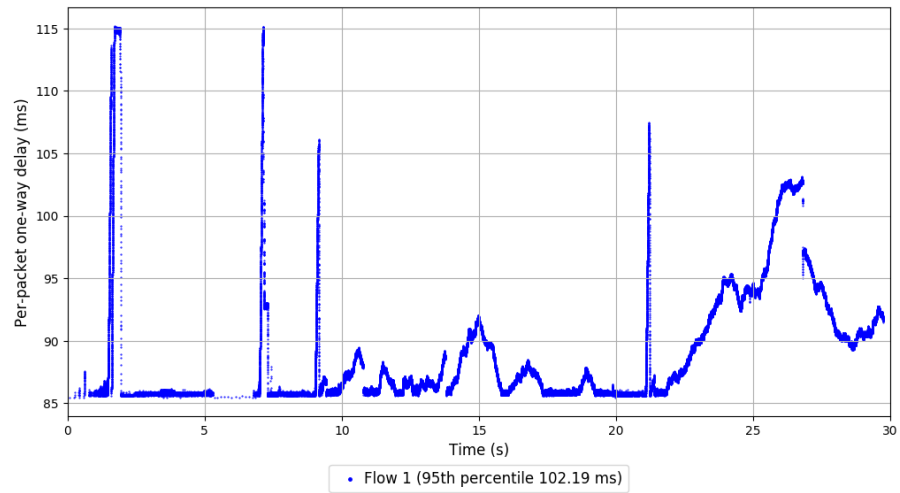
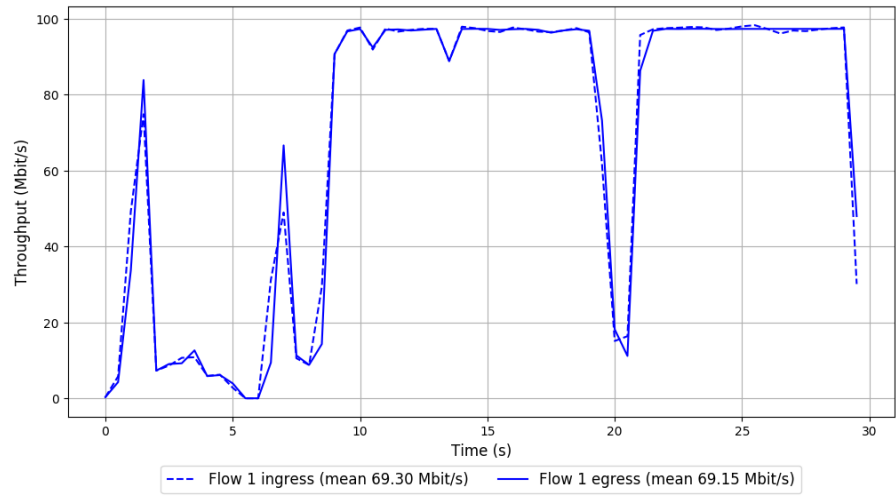
Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 102.194 ms

Loss rate: 0.20%



### Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 15:40:05

End at: 2018-01-16 15:40:35

Local clock offset: 1.18 ms

Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2018-01-16 17:53:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 87.490 ms

Loss rate: 0.10%

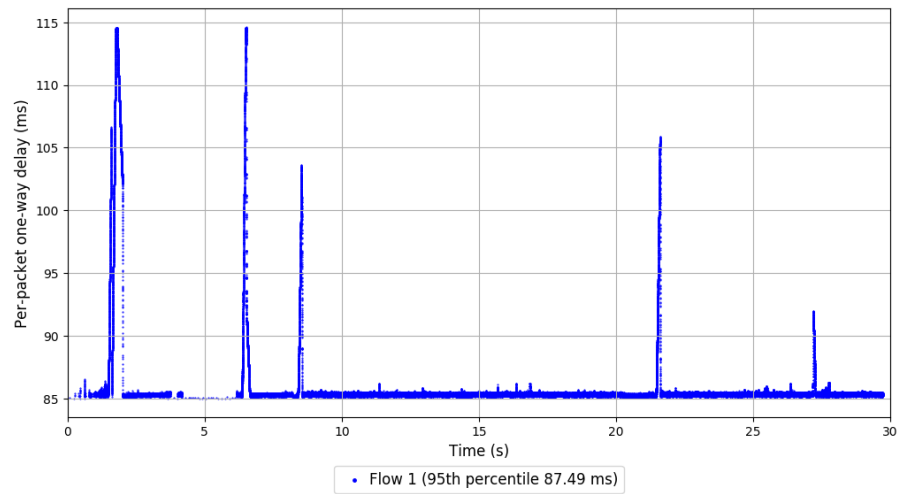
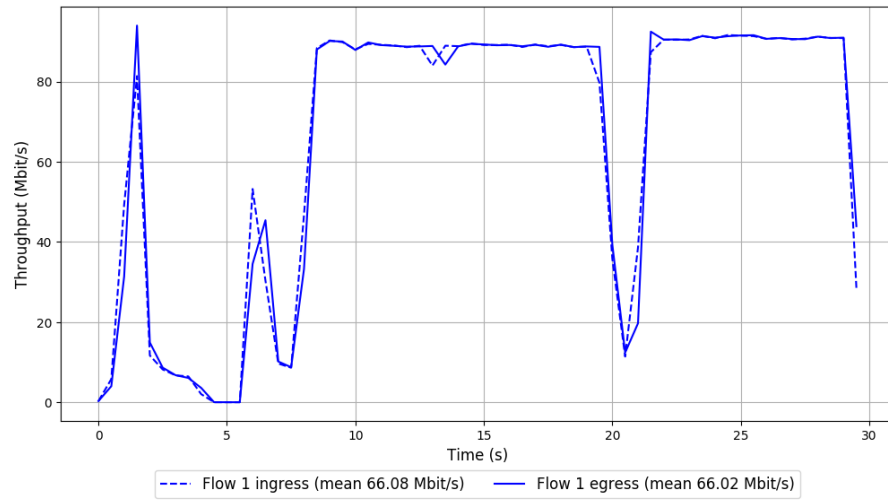
-- Flow 1:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 87.490 ms

Loss rate: 0.10%

## Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

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

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

Local clock offset: 1.049 ms

Remote clock offset: 0.463 ms

# Below is generated by plot.py at 2018-01-16 17:53:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.33 Mbit/s

95th percentile per-packet one-way delay: 104.289 ms

Loss rate: 0.22%

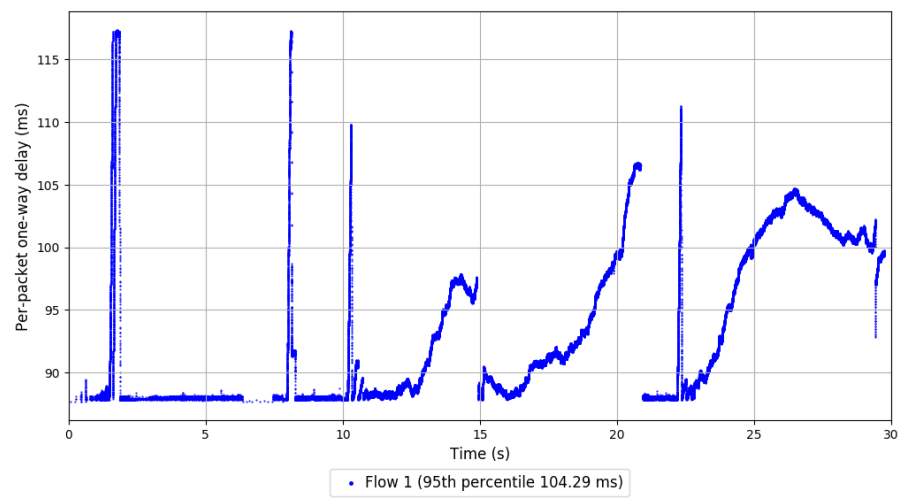
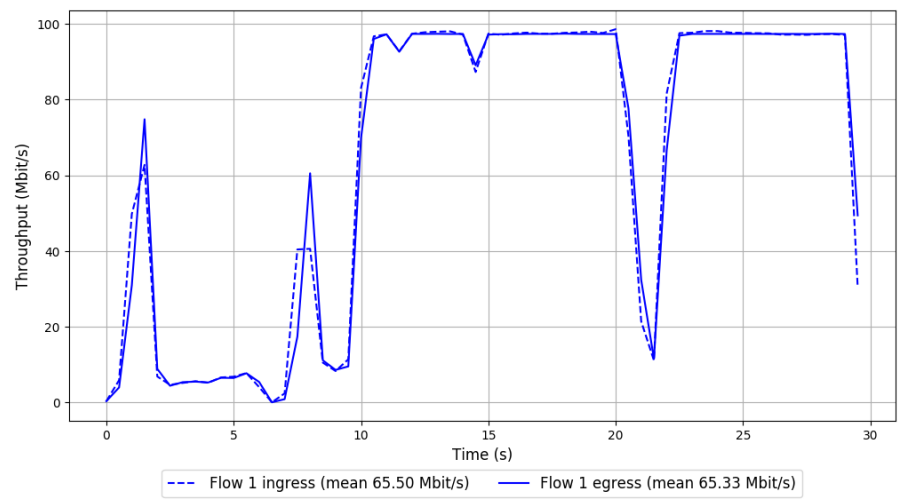
-- Flow 1:

Average throughput: 65.33 Mbit/s

95th percentile per-packet one-way delay: 104.289 ms

Loss rate: 0.22%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

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

End at: 2018-01-16 16:24:08

Local clock offset: 1.116 ms

Remote clock offset: -0.899 ms

# Below is generated by plot.py at 2018-01-16 17:54:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 102.988 ms

Loss rate: 0.21%

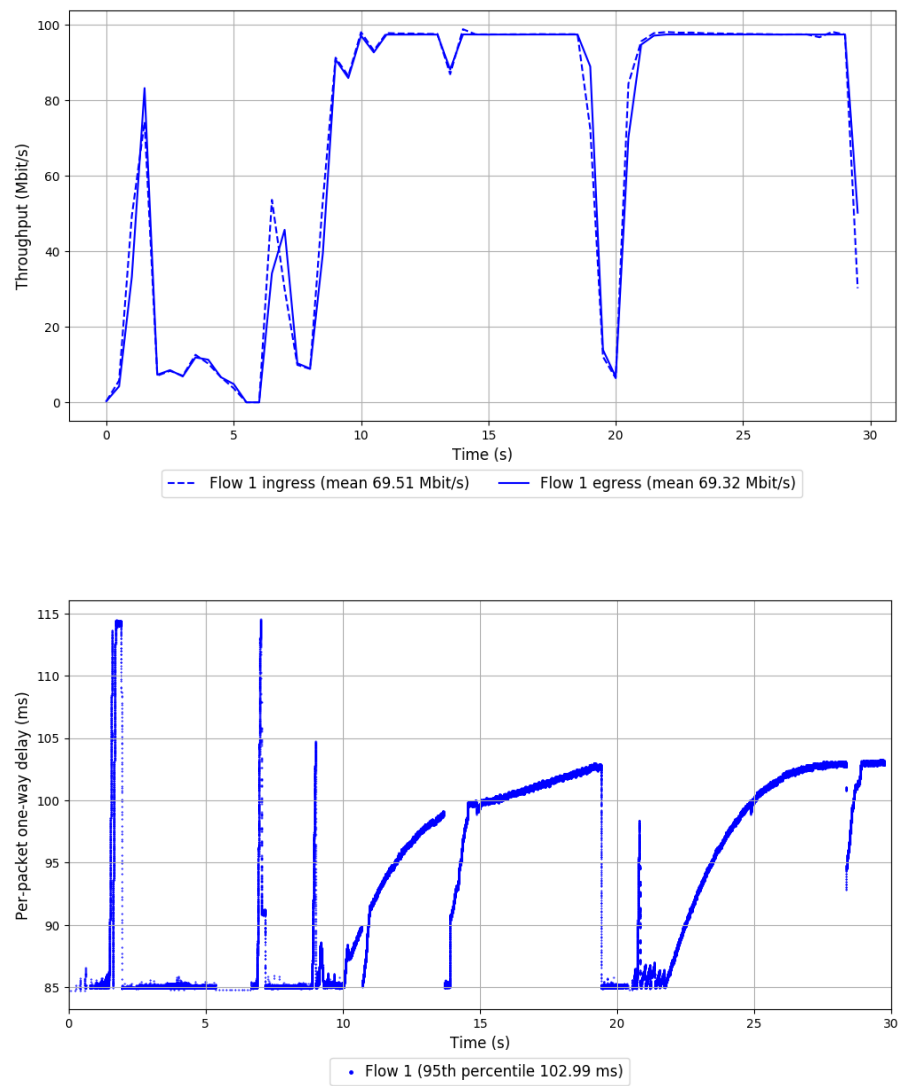
-- Flow 1:

Average throughput: 69.32 Mbit/s

95th percentile per-packet one-way delay: 102.988 ms

Loss rate: 0.21%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 16:45:37

End at: 2018-01-16 16:46:07

Local clock offset: 1.134 ms

Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2018-01-16 17:54:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.12 Mbit/s

95th percentile per-packet one-way delay: 108.666 ms

Loss rate: 0.25%

-- Flow 1:

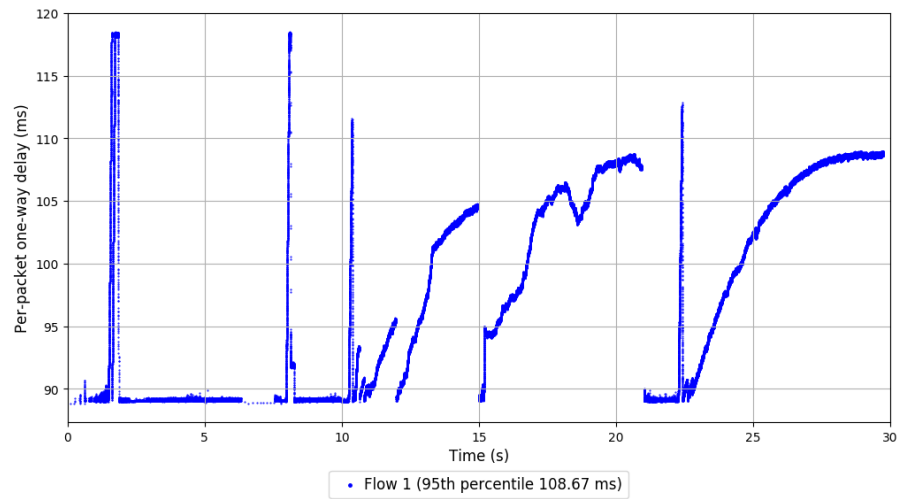
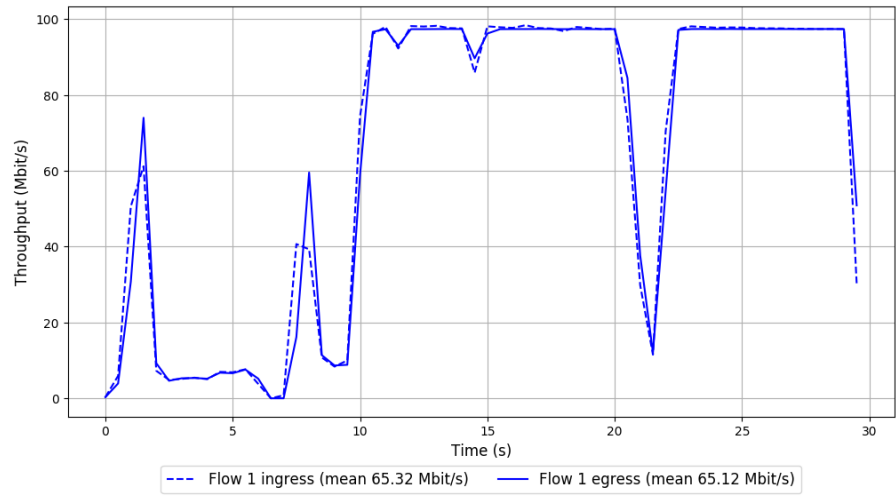
Average throughput: 65.12 Mbit/s

95th percentile per-packet one-way delay: 108.666 ms

Loss rate: 0.25%



### Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 17:07:30

End at: 2018-01-16 17:08:00

Local clock offset: 1.094 ms

Remote clock offset: -1.334 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.13 Mbit/s

95th percentile per-packet one-way delay: 86.522 ms

Loss rate: 0.15%

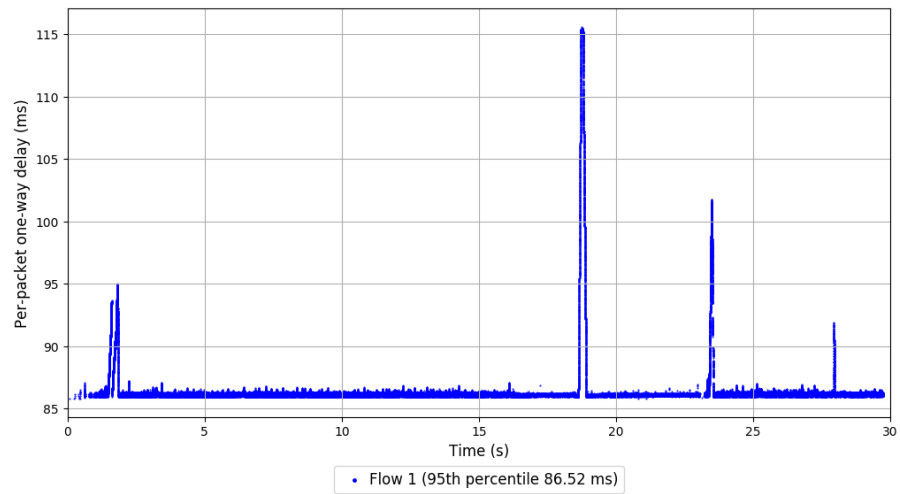
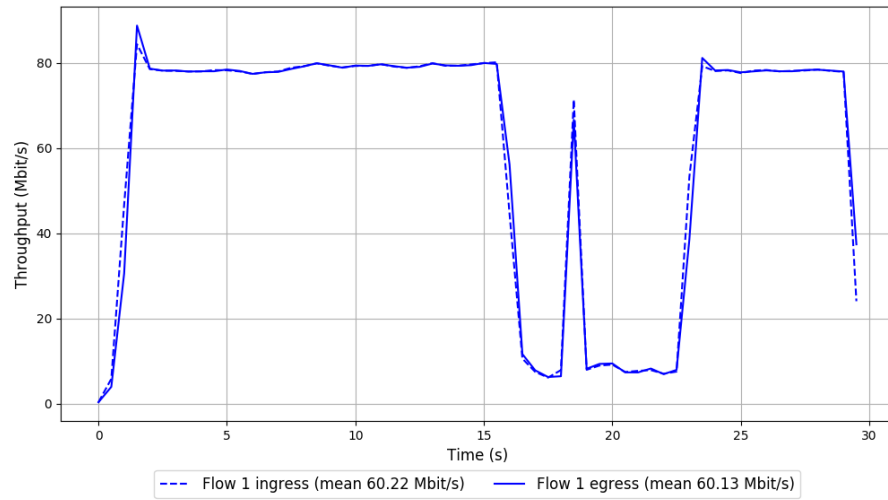
-- Flow 1:

Average throughput: 60.13 Mbit/s

95th percentile per-packet one-way delay: 86.522 ms

Loss rate: 0.15%

# Run 10: Report of QUIC Cubic — Data Link

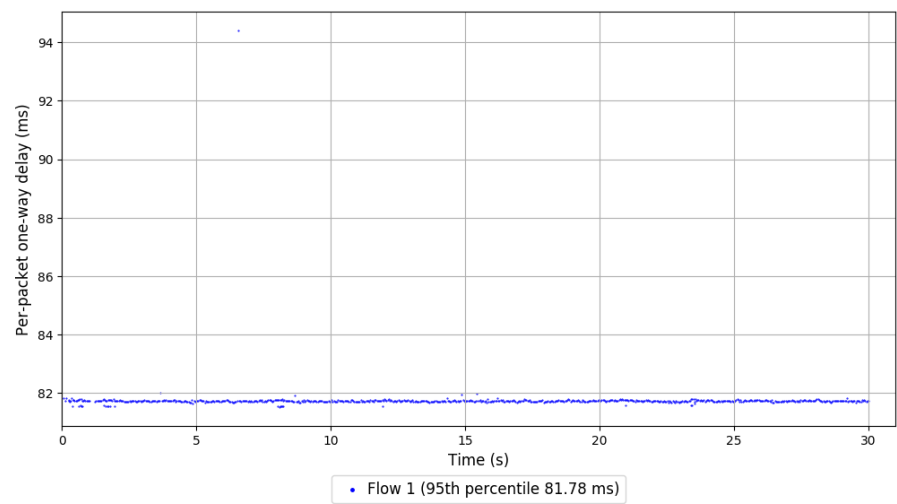
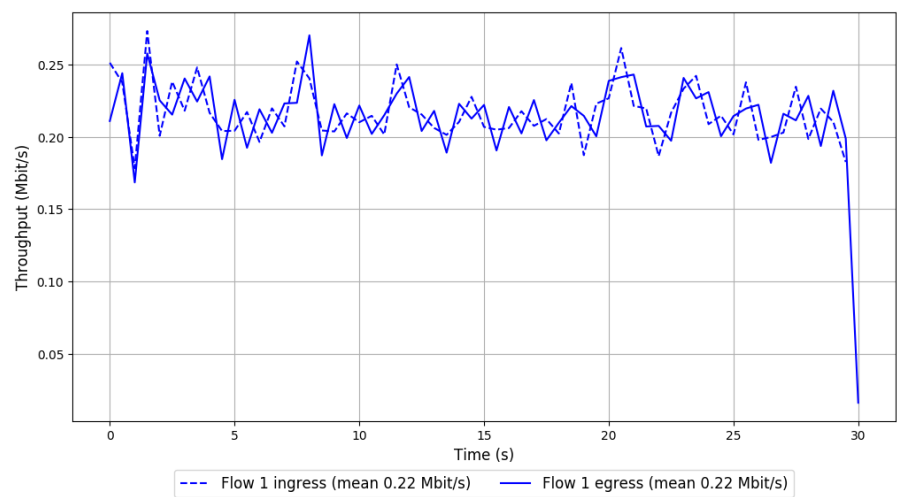


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 13:47:38
End at: 2018-01-16 13:48:08
Local clock offset: 0.144 ms
Remote clock offset: -4.069 ms

# Below is generated by plot.py at 2018-01-16 17:54:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.775 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

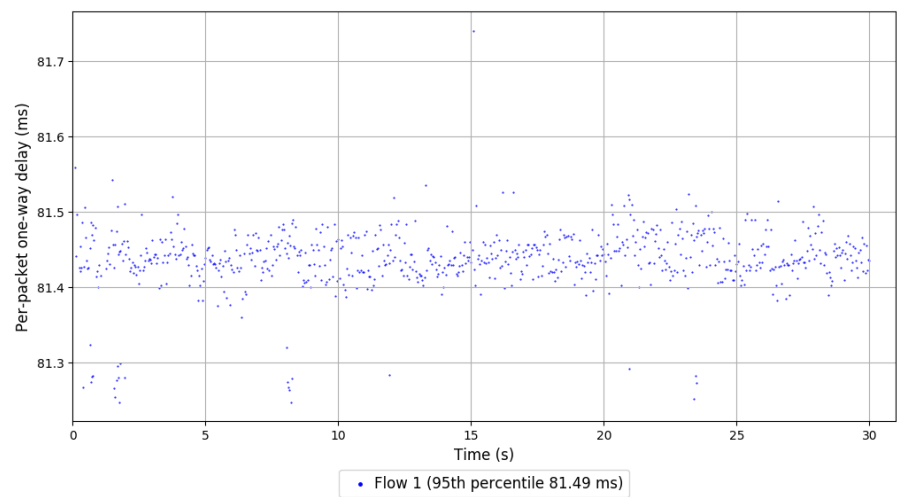
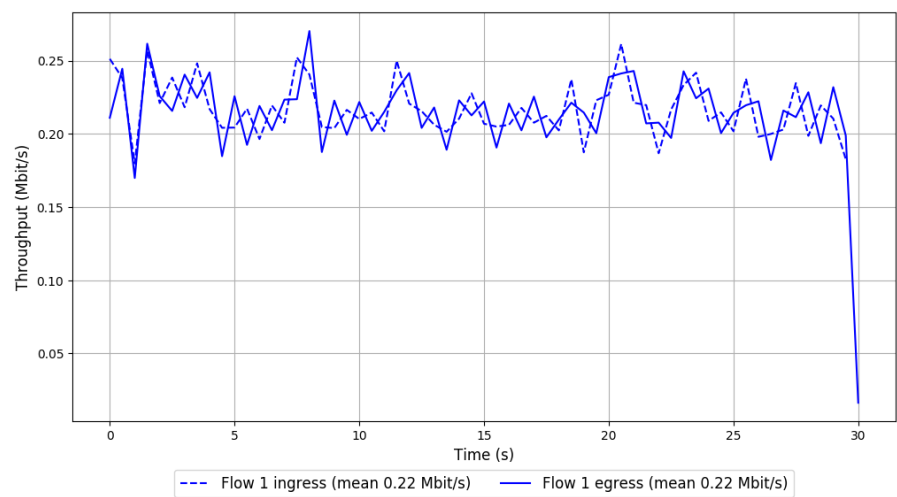


Run 2: Statistics of SCReAM

Start at: 2018-01-16 14:09:29  
End at: 2018-01-16 14:09:59  
Local clock offset: 0.443 ms  
Remote clock offset: -3.864 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.488 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.488 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



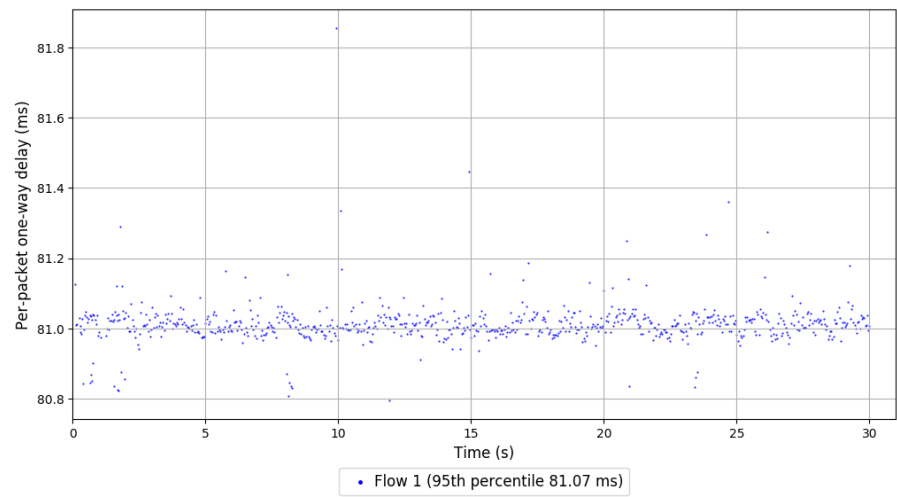
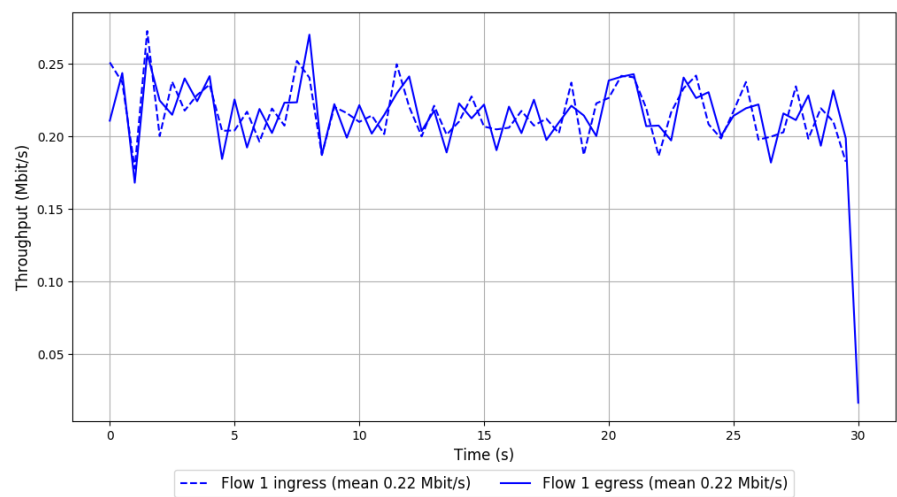
Run 3: Statistics of SCReAM

Start at: 2018-01-16 14:31:28  
End at: 2018-01-16 14:31:58  
Local clock offset: 0.839 ms  
Remote clock offset: -4.764 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.071 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.071 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link

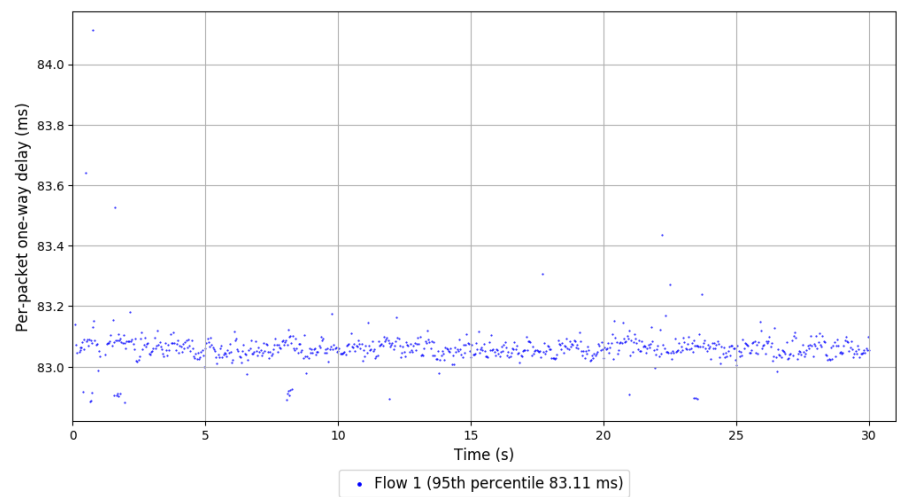
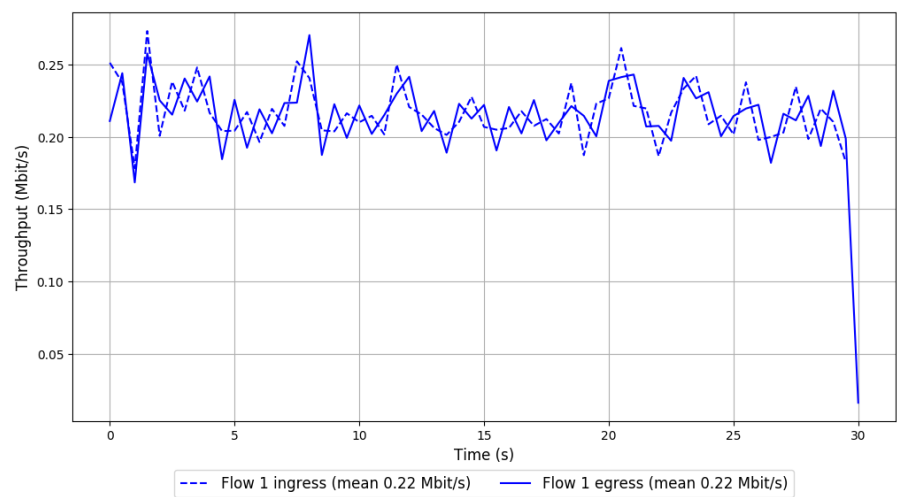


Run 4: Statistics of SCReAM

Start at: 2018-01-16 14:53:12  
End at: 2018-01-16 14:53:42  
Local clock offset: 1.038 ms  
Remote clock offset: -4.081 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.106 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.106 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-16 15:13:29

End at: 2018-01-16 15:13:59

Local clock offset: 1.153 ms

Remote clock offset: 1.32 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.184 ms

Loss rate: 0.00%

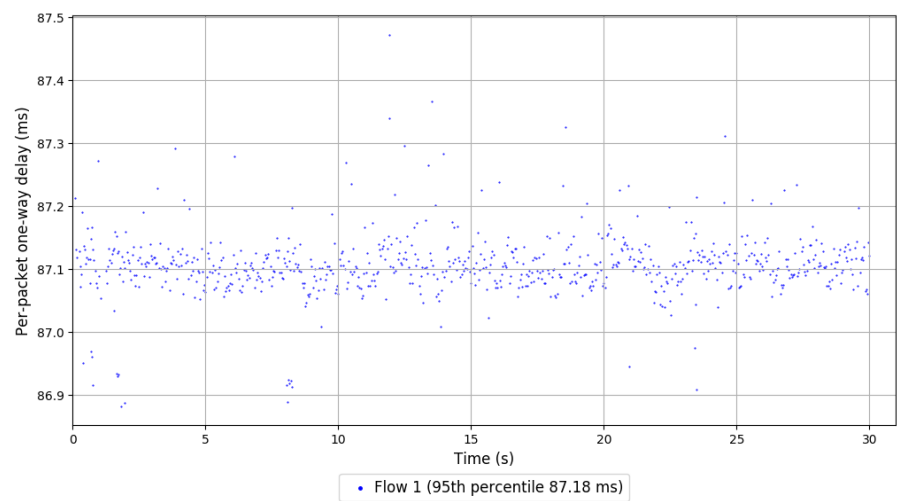
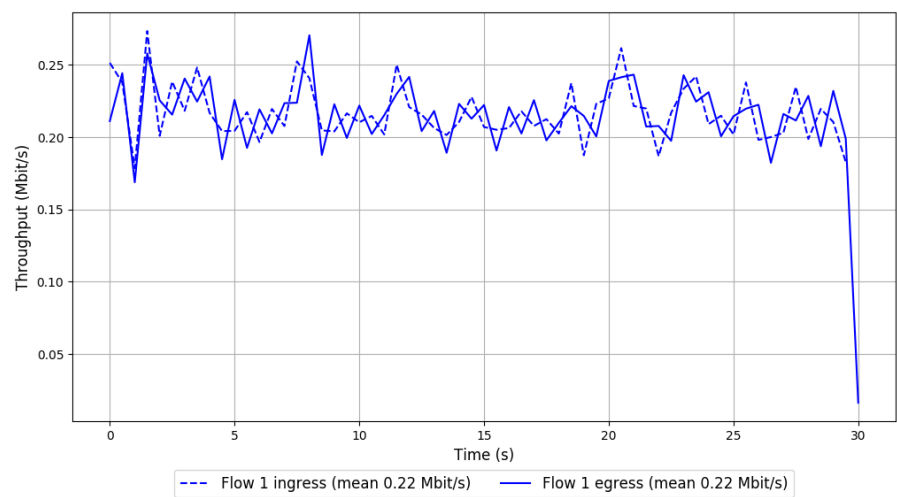
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.184 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-16 15:35:16

End at: 2018-01-16 15:35:46

Local clock offset: 1.17 ms

Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.794 ms

Loss rate: 0.00%

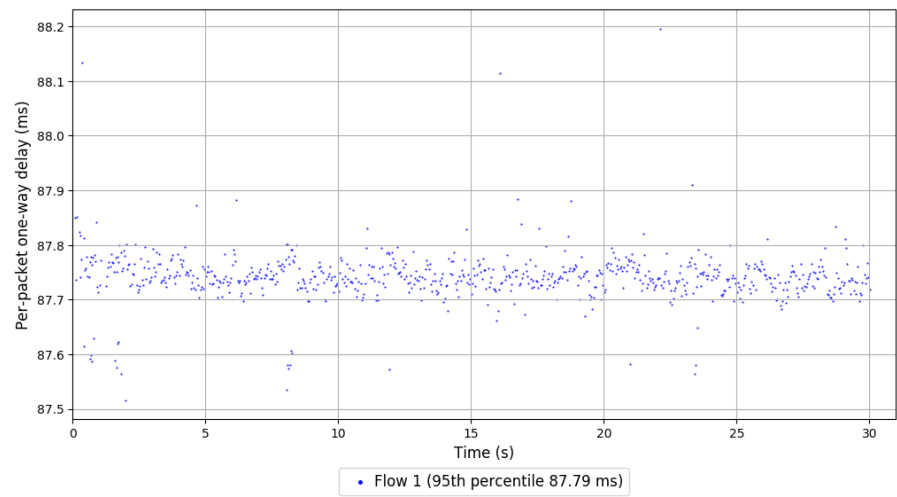
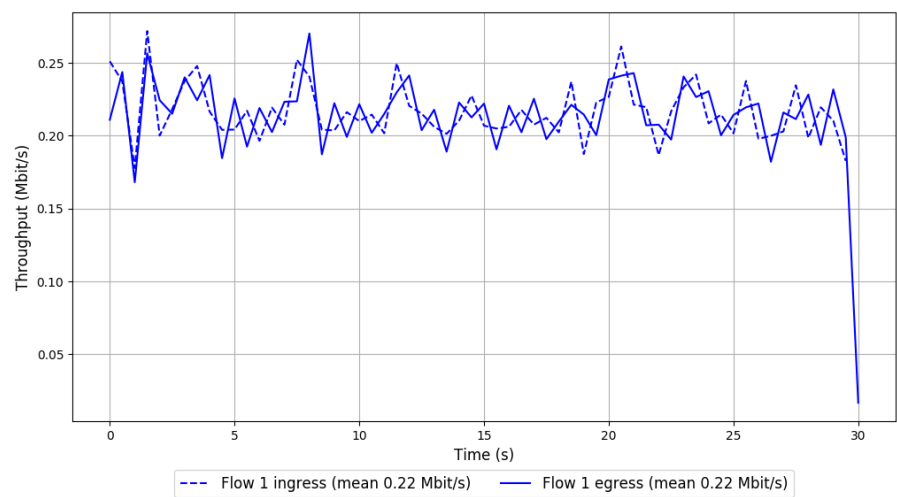
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.794 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-16 15:57:07

End at: 2018-01-16 15:57:37

Local clock offset: 1.121 ms

Remote clock offset: 0.608 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.178 ms

Loss rate: 0.00%

-- Flow 1:

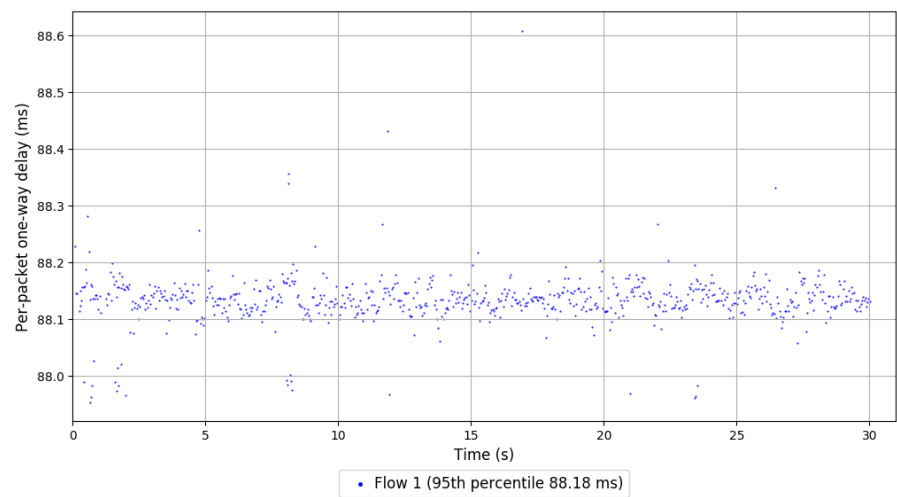
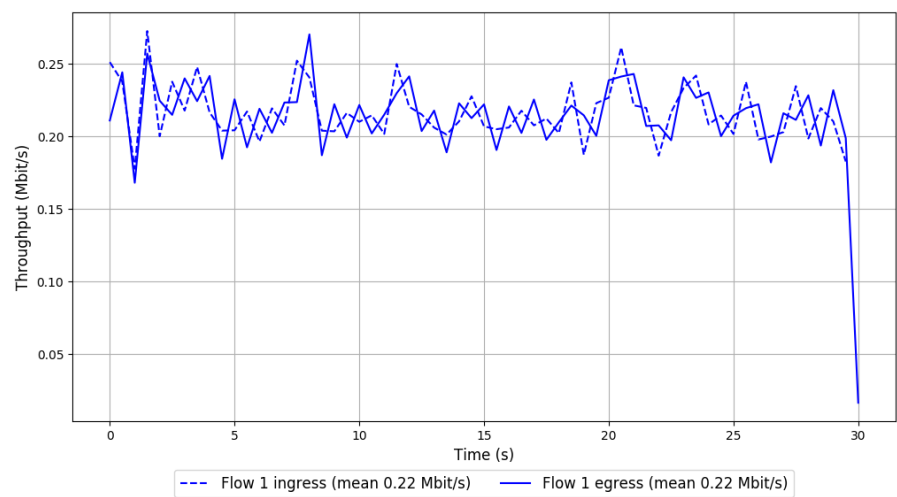
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.178 ms

Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

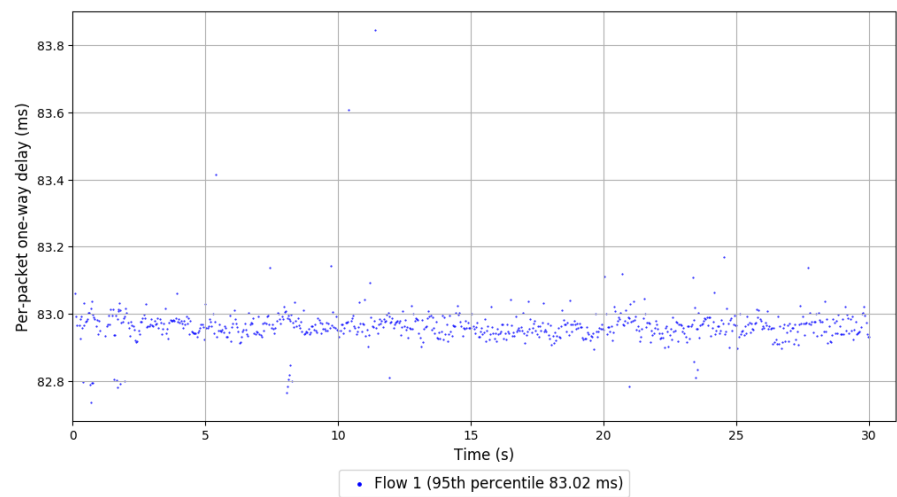
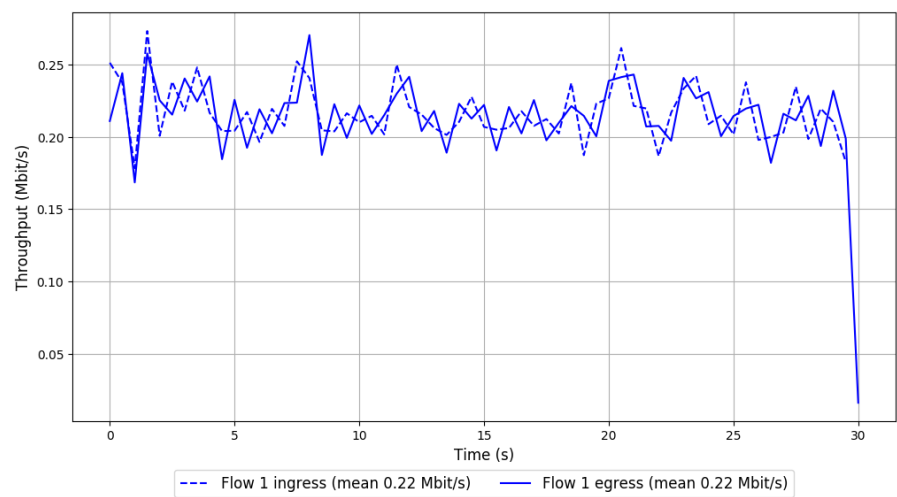


Run 8: Statistics of SCReAM

Start at: 2018-01-16 16:18:54  
End at: 2018-01-16 16:19:24  
Local clock offset: 1.12 ms  
Remote clock offset: -4.773 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.019 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.019 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

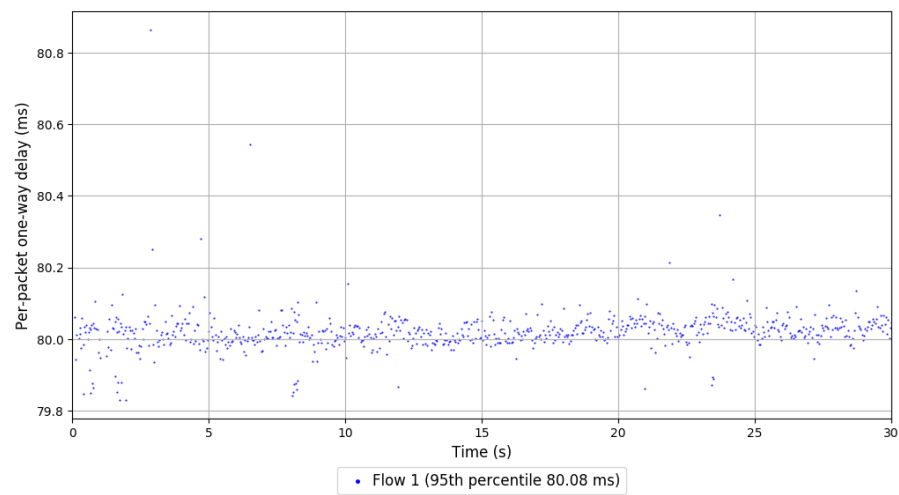
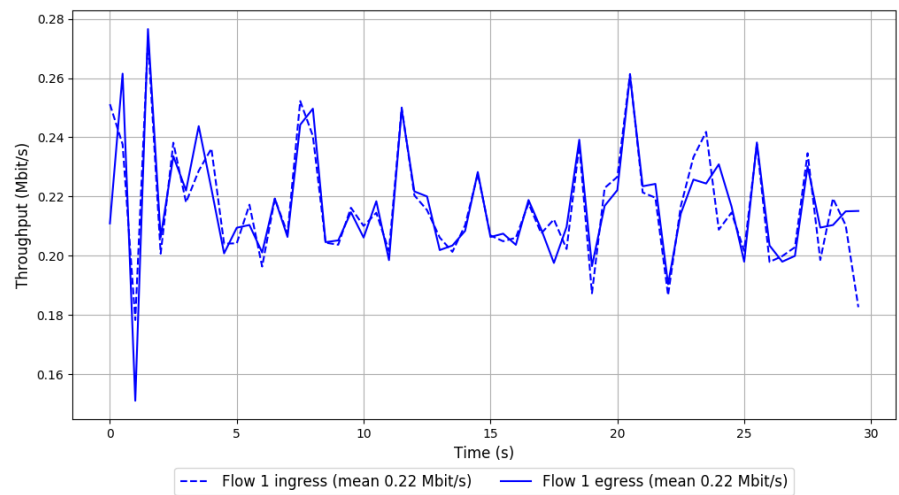


Run 9: Statistics of SCReAM

Start at: 2018-01-16 16:40:46  
End at: 2018-01-16 16:41:16  
Local clock offset: 1.142 ms  
Remote clock offset: -5.893 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.077 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.077 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-16 17:02:46

End at: 2018-01-16 17:03:16

Local clock offset: 1.104 ms

Remote clock offset: -6.009 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.138 ms

Loss rate: 0.00%

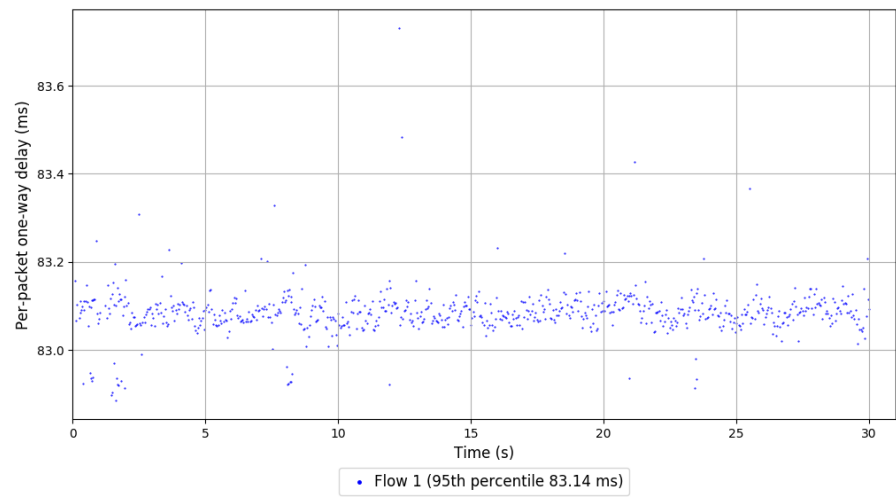
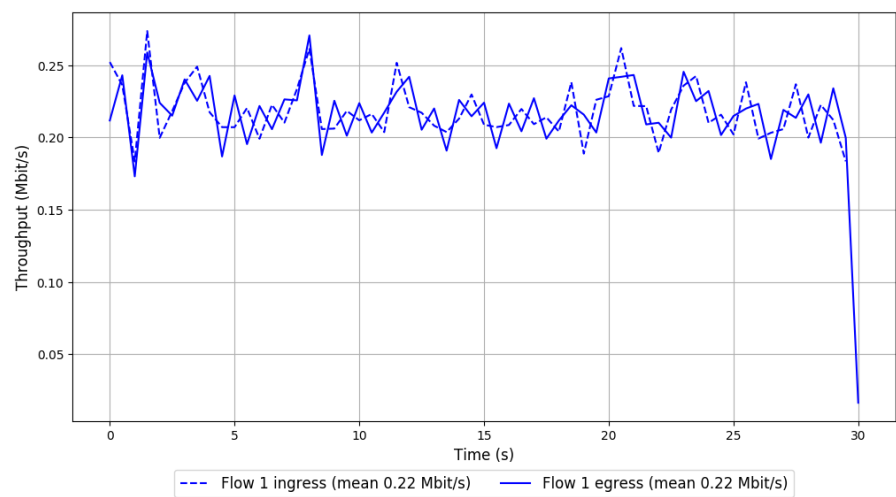
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.138 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



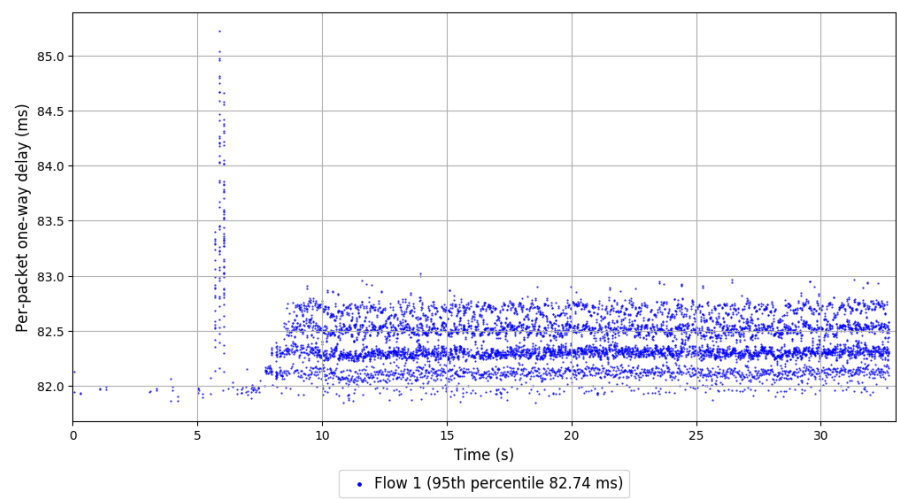
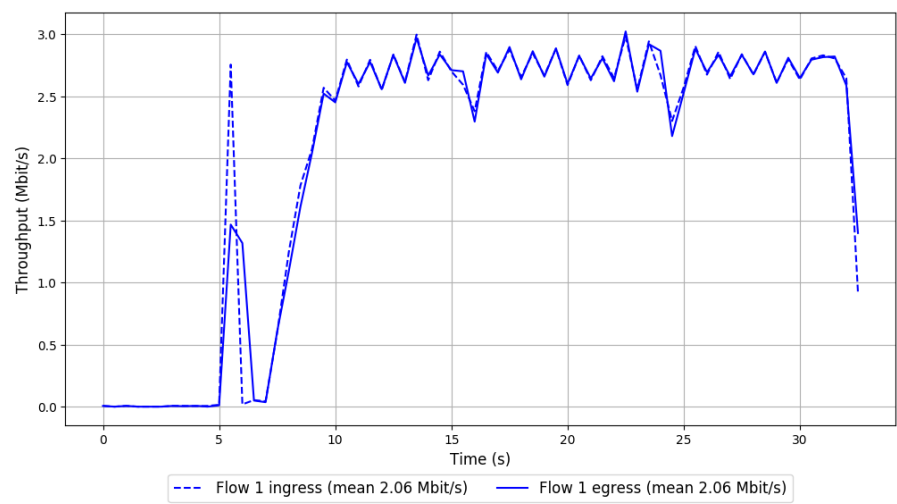
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 13:45:15  
End at: 2018-01-16 13:45:45  
Local clock offset: 0.094 ms  
Remote clock offset: -4.797 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 82.742 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 82.742 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-16 14:07:06

End at: 2018-01-16 14:07:36

Local clock offset: 0.471 ms

Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 86.270 ms

Loss rate: 0.00%

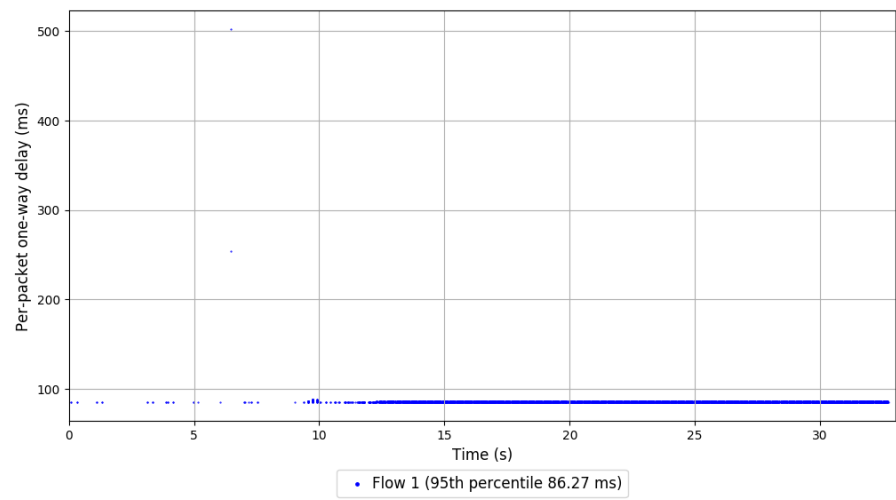
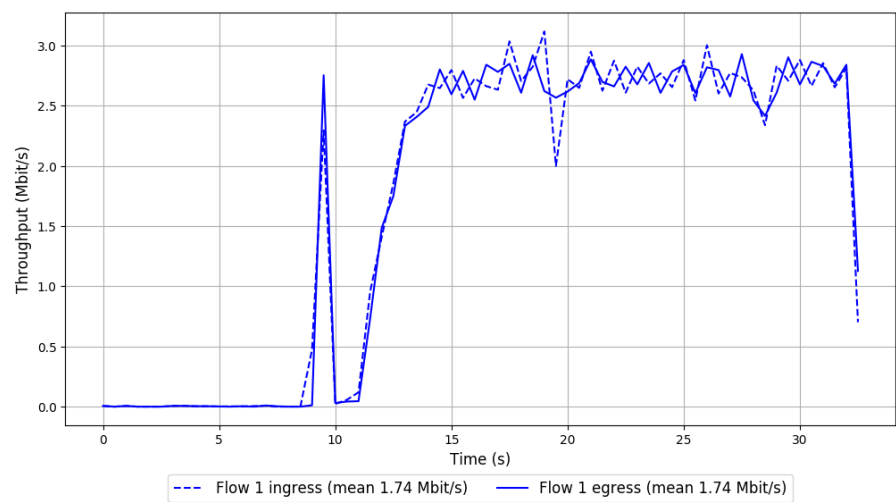
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 86.270 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 14:29:04

End at: 2018-01-16 14:29:34

Local clock offset: 0.809 ms

Remote clock offset: 0.824 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 86.574 ms

Loss rate: 0.00%

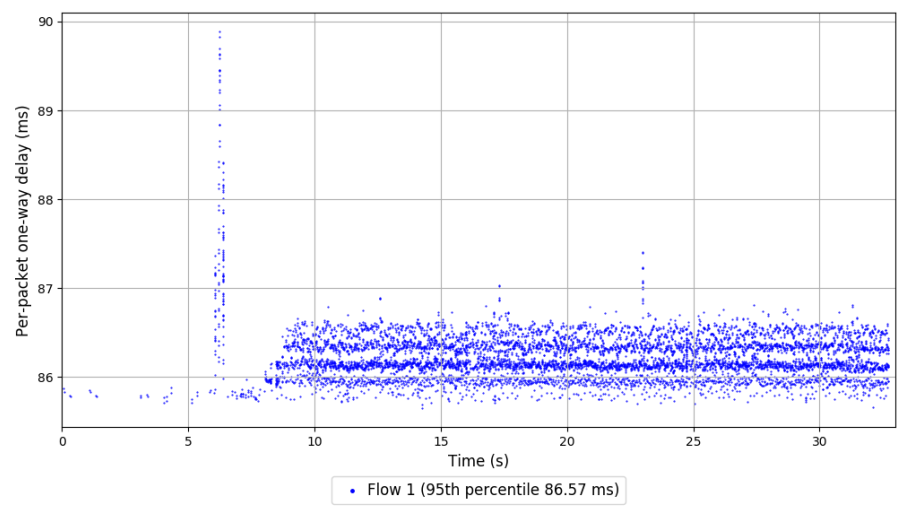
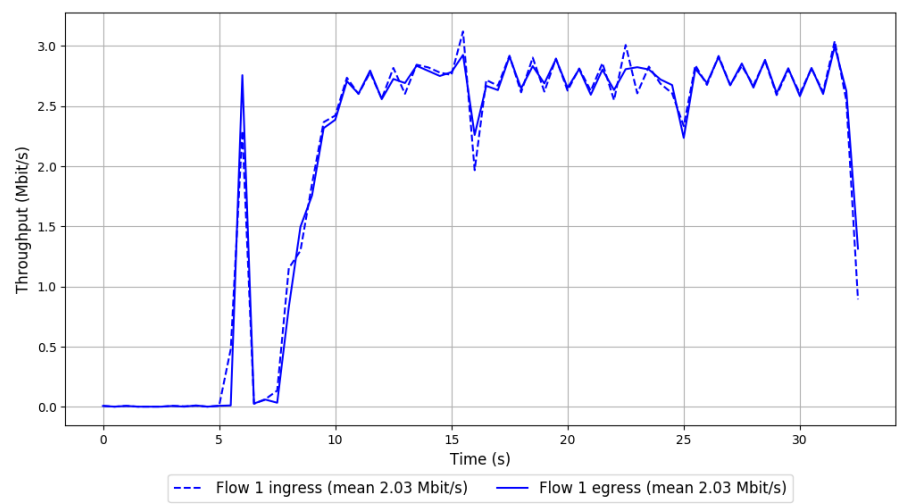
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 86.574 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

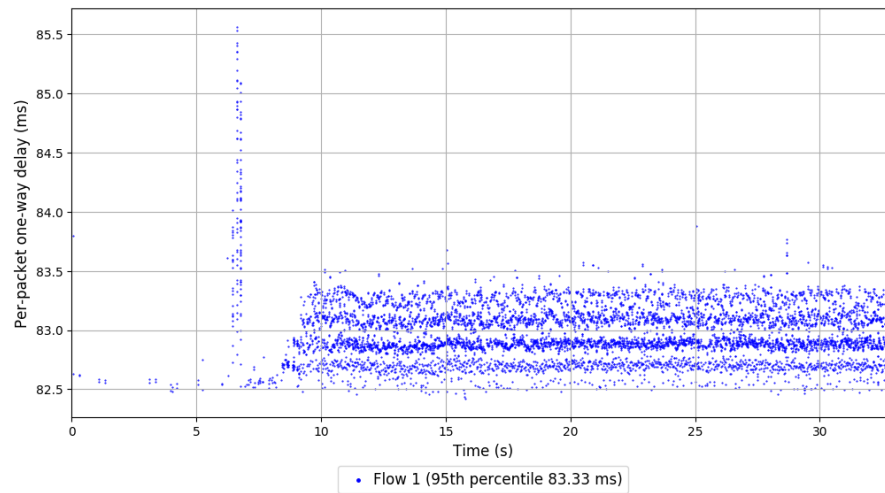
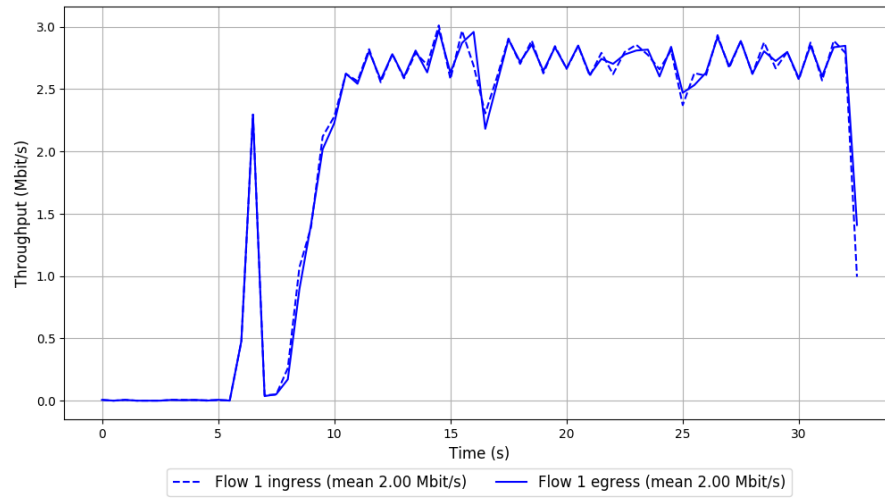


Run 4: Statistics of WebRTC media

Start at: 2018-01-16 14:50:49  
End at: 2018-01-16 14:51:19  
Local clock offset: 1.105 ms  
Remote clock offset: -4.058 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 83.326 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 83.326 ms  
Loss rate: 0.00%

#### Run 4: Report of WebRTC media — Data Link



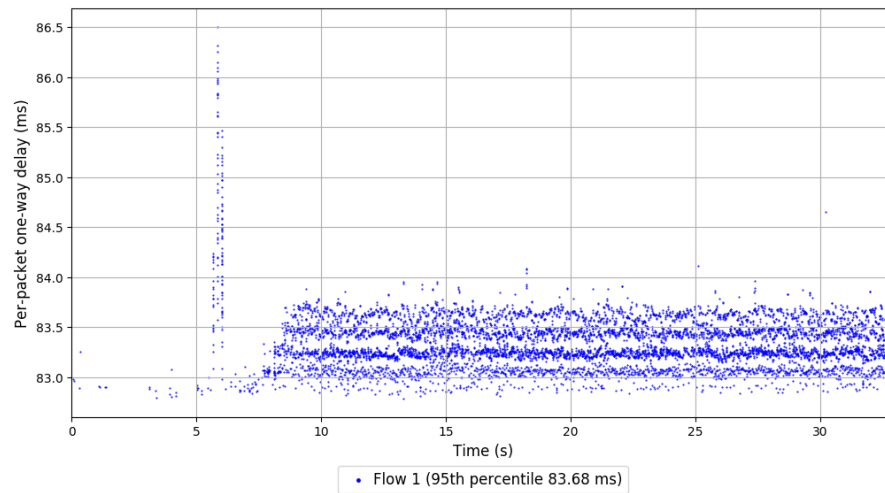
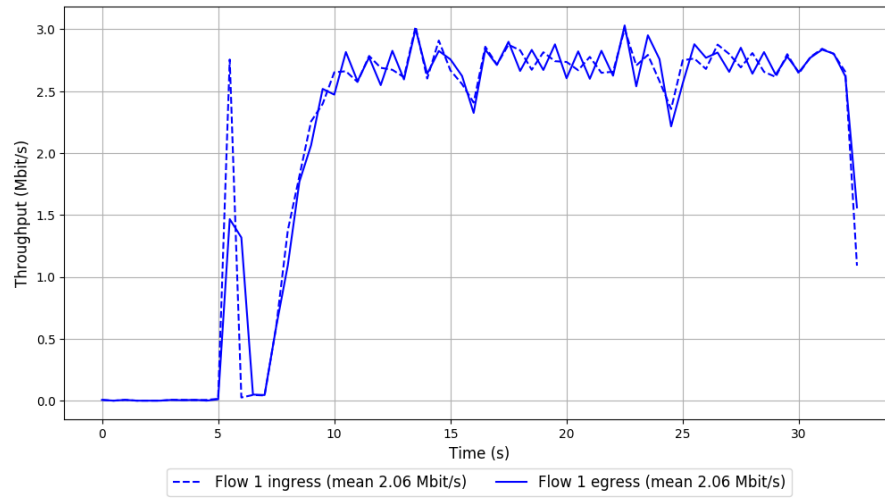
Run 5: Statistics of WebRTC media

Start at: 2018-01-16 15:11:06  
End at: 2018-01-16 15:11:36  
Local clock offset: 1.148 ms  
Remote clock offset: -4.235 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 83.684 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 83.684 ms  
Loss rate: 0.00%



### Run 5: Report of WebRTC media — Data Link

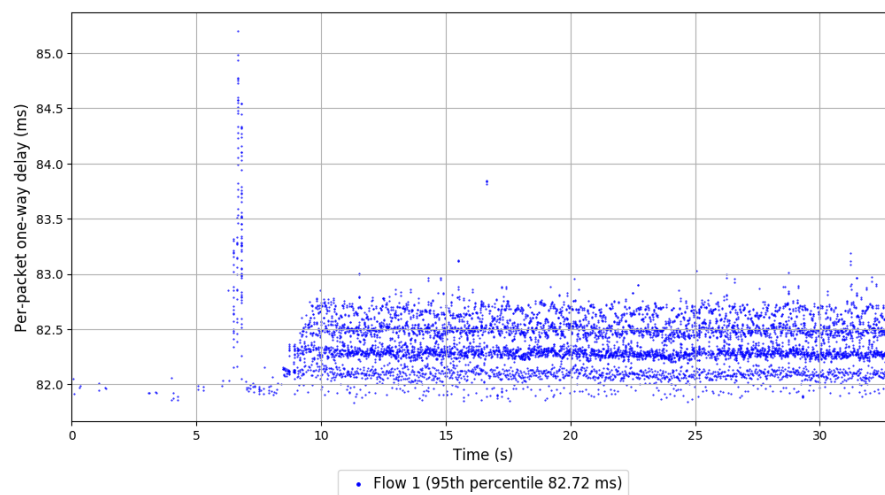
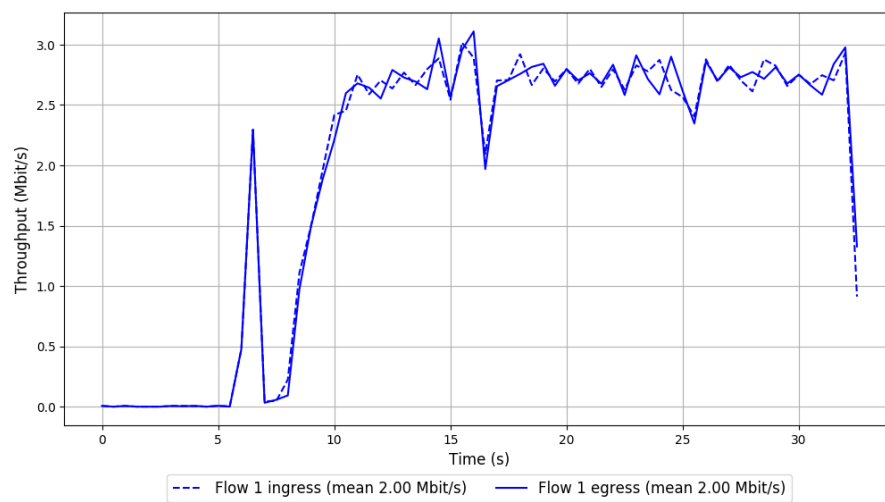


Run 6: Statistics of WebRTC media

Start at: 2018-01-16 15:32:54  
End at: 2018-01-16 15:33:24  
Local clock offset: 1.179 ms  
Remote clock offset: -5.189 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 82.719 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 82.719 ms  
Loss rate: 0.00%

## Run 6: Report of WebRTC media — Data Link

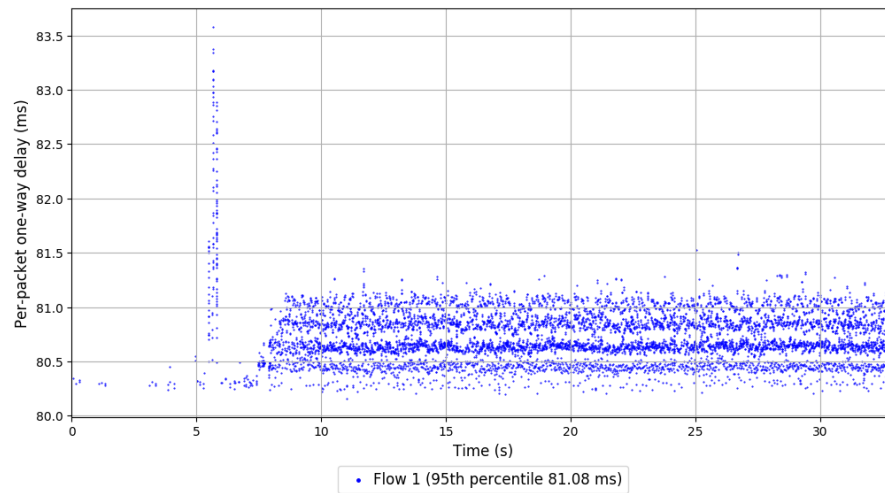
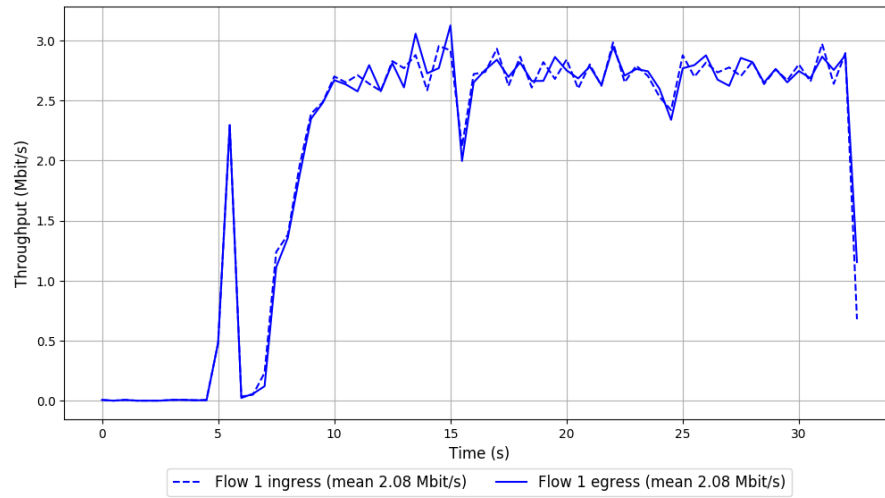


Run 7: Statistics of WebRTC media

Start at: 2018-01-16 15:54:44  
End at: 2018-01-16 15:55:14  
Local clock offset: 1.133 ms  
Remote clock offset: -5.176 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.08 Mbit/s  
95th percentile per-packet one-way delay: 81.082 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.08 Mbit/s  
95th percentile per-packet one-way delay: 81.082 ms  
Loss rate: 0.00%

## Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

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

Local clock offset: 1.106 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 88.330 ms

Loss rate: 0.00%

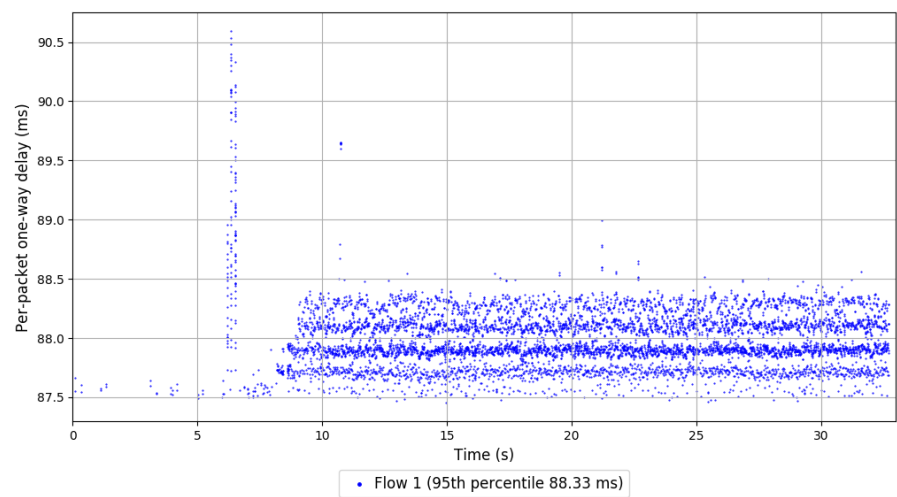
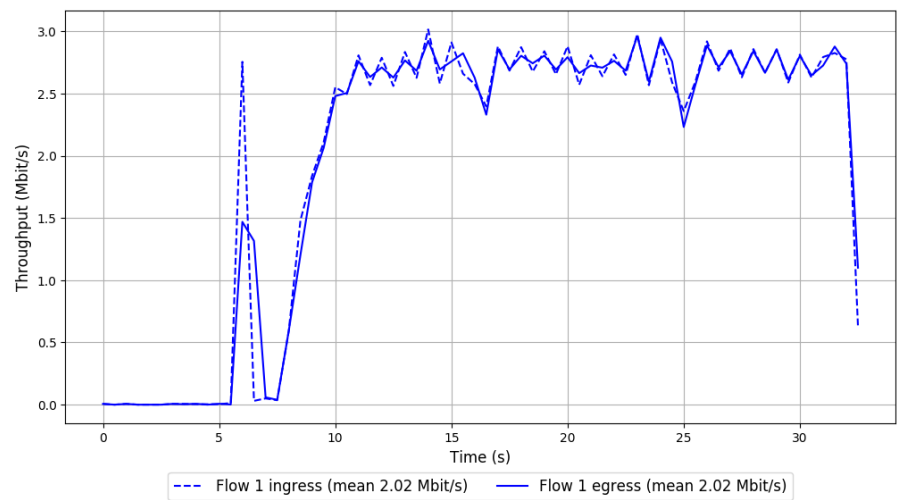
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 88.330 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



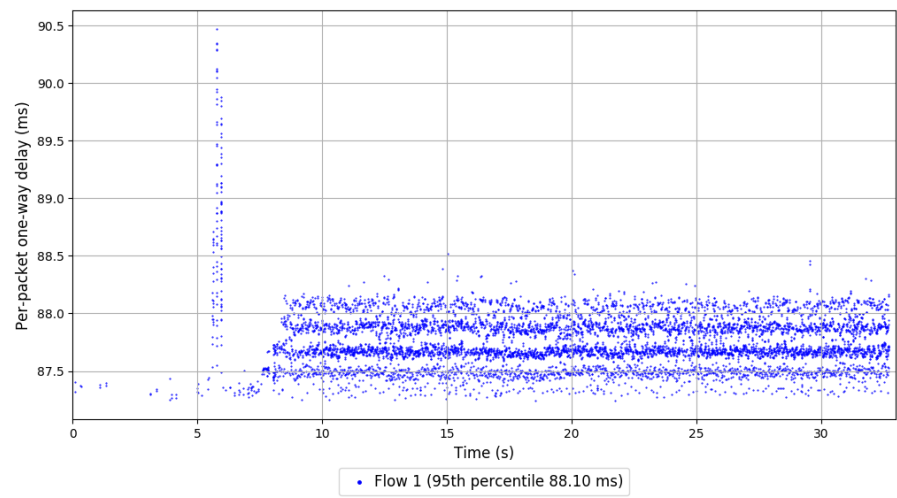
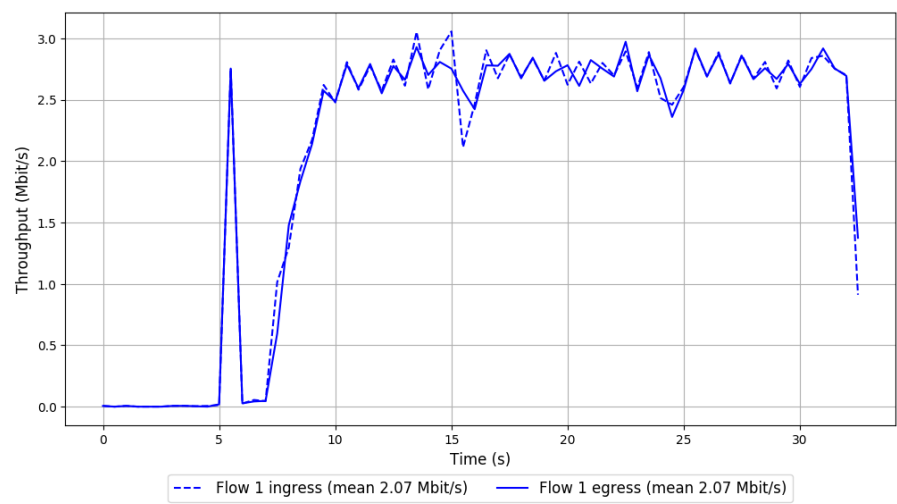
Run 9: Statistics of WebRTC media

Start at: 2018-01-16 16:38:24  
End at: 2018-01-16 16:38:54  
Local clock offset: 1.133 ms  
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.07 Mbit/s  
95th percentile per-packet one-way delay: 88.103 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.07 Mbit/s  
95th percentile per-packet one-way delay: 88.103 ms  
Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-16 17:00:22

End at: 2018-01-16 17:00:52

Local clock offset: 1.072 ms

Remote clock offset: -6.84 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 82.717 ms

Loss rate: 0.00%

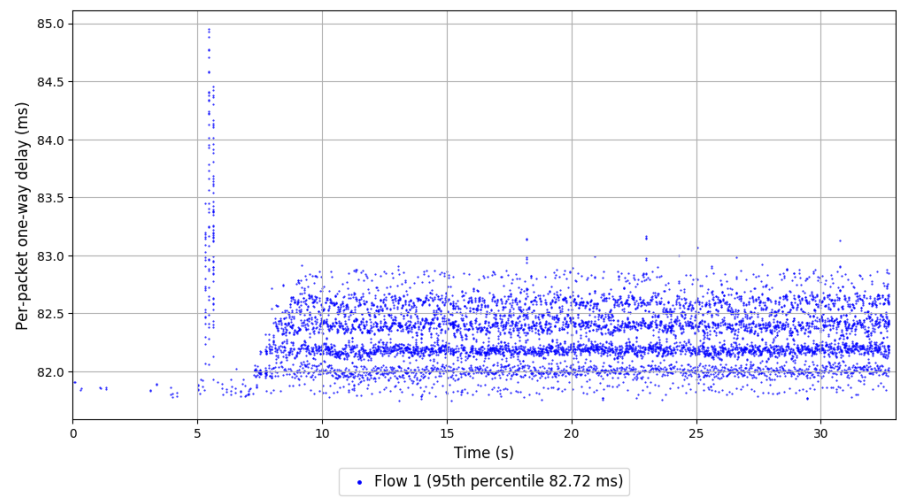
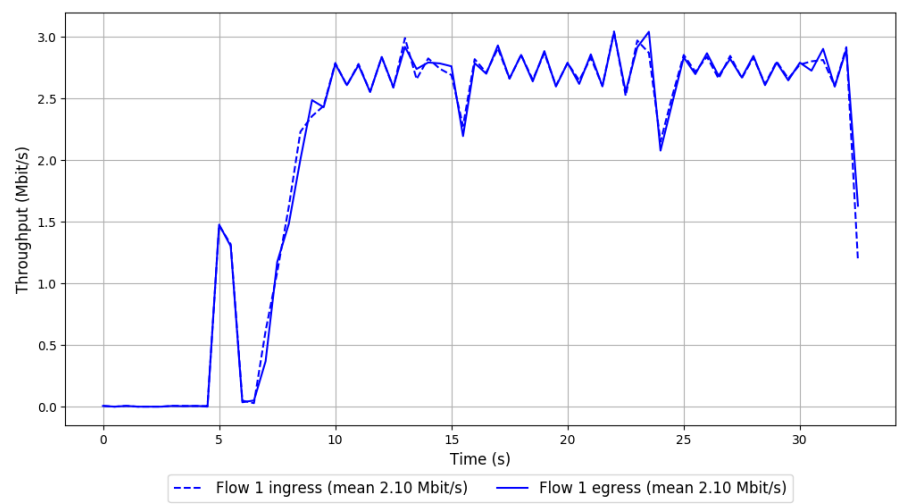
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 82.717 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-16 14:03:32

End at: 2018-01-16 14:04:02

Local clock offset: 0.4 ms

Remote clock offset: -4.9 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 88.417 ms

Loss rate: 0.00%

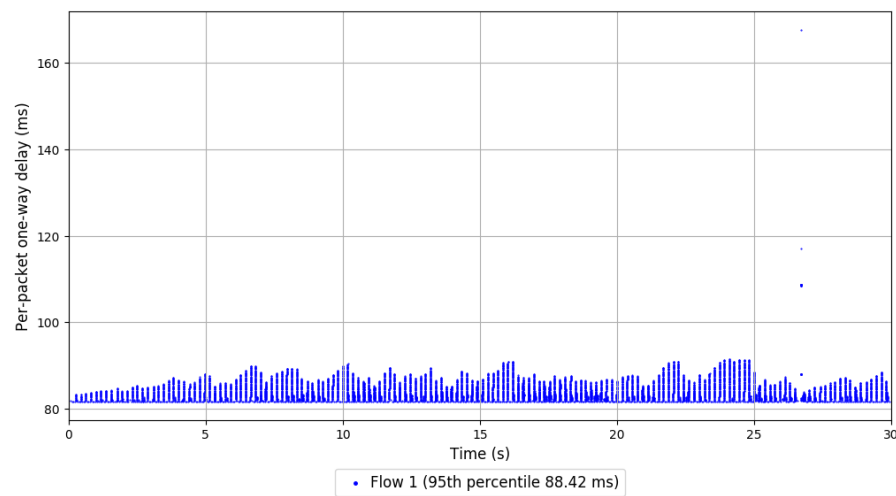
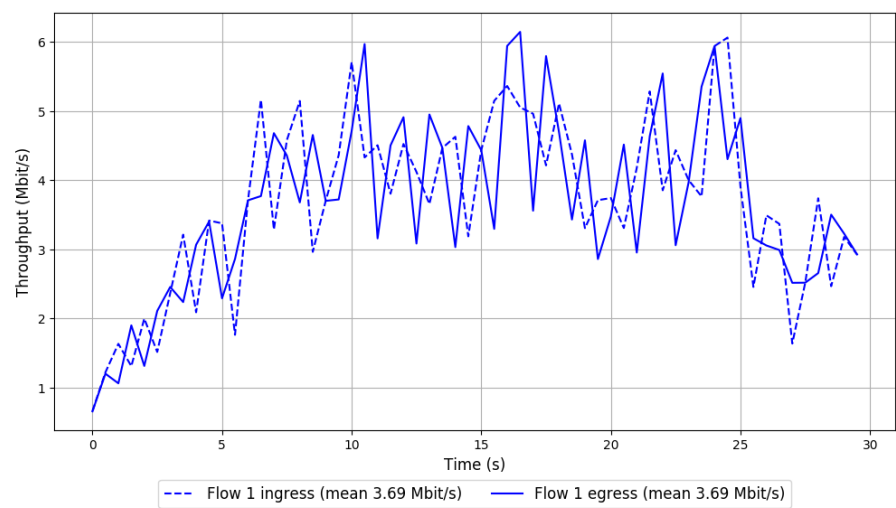
-- Flow 1:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 88.417 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-16 14:25:30

End at: 2018-01-16 14:26:00

Local clock offset: 0.695 ms

Remote clock offset: 0.926 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 91.968 ms

Loss rate: 0.00%

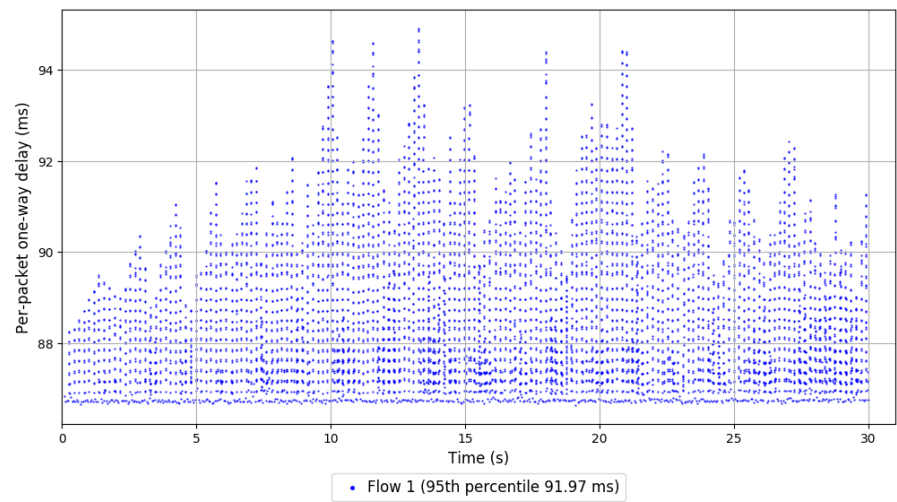
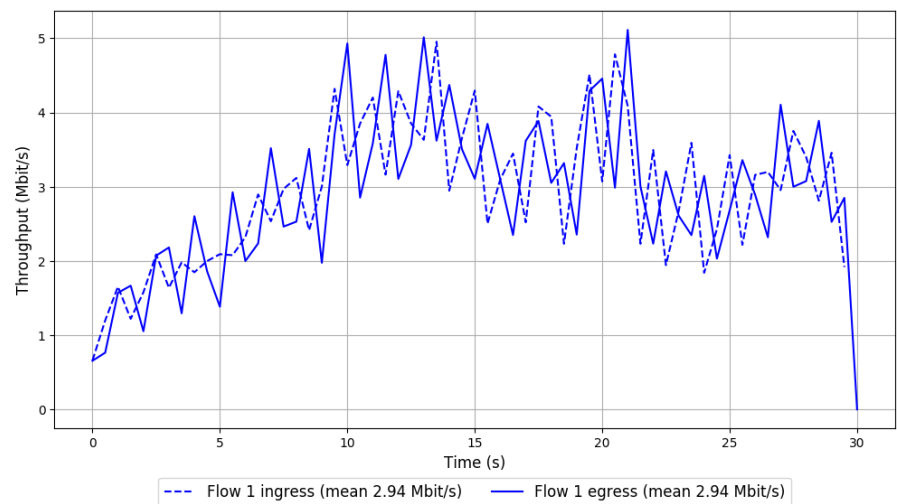
-- Flow 1:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 91.968 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



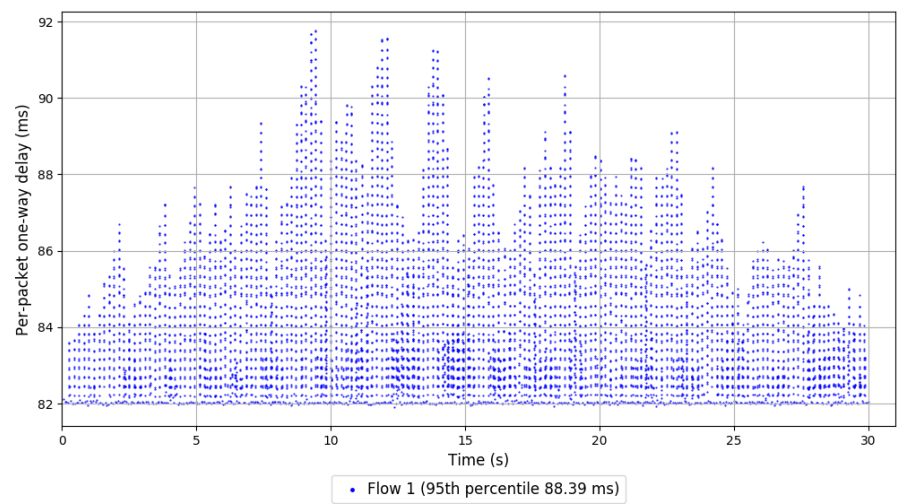
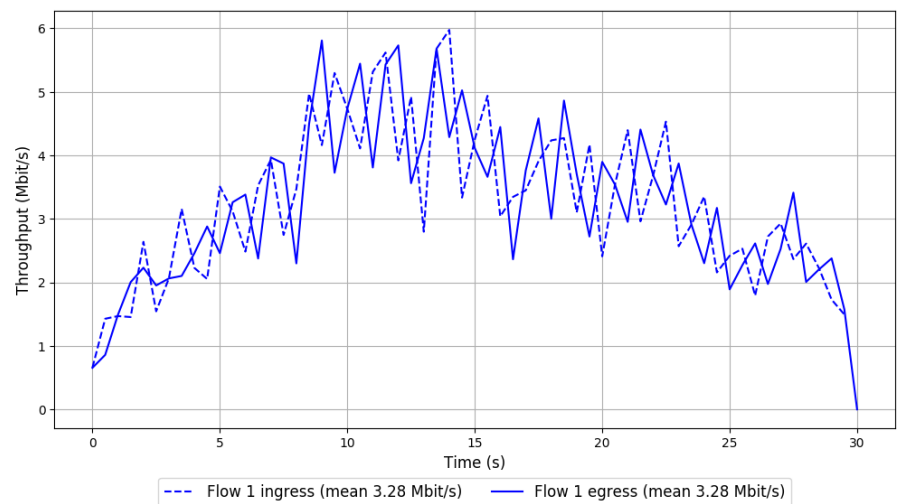
Run 3: Statistics of Sprout

Start at: 2018-01-16 14:47:15  
End at: 2018-01-16 14:47:45  
Local clock offset: 1.024 ms  
Remote clock offset: -4.928 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.28 Mbit/s  
95th percentile per-packet one-way delay: 88.393 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.28 Mbit/s  
95th percentile per-packet one-way delay: 88.393 ms  
Loss rate: 0.00%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-16 15:07:47

End at: 2018-01-16 15:08:17

Local clock offset: 1.159 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 93.251 ms

Loss rate: 0.00%

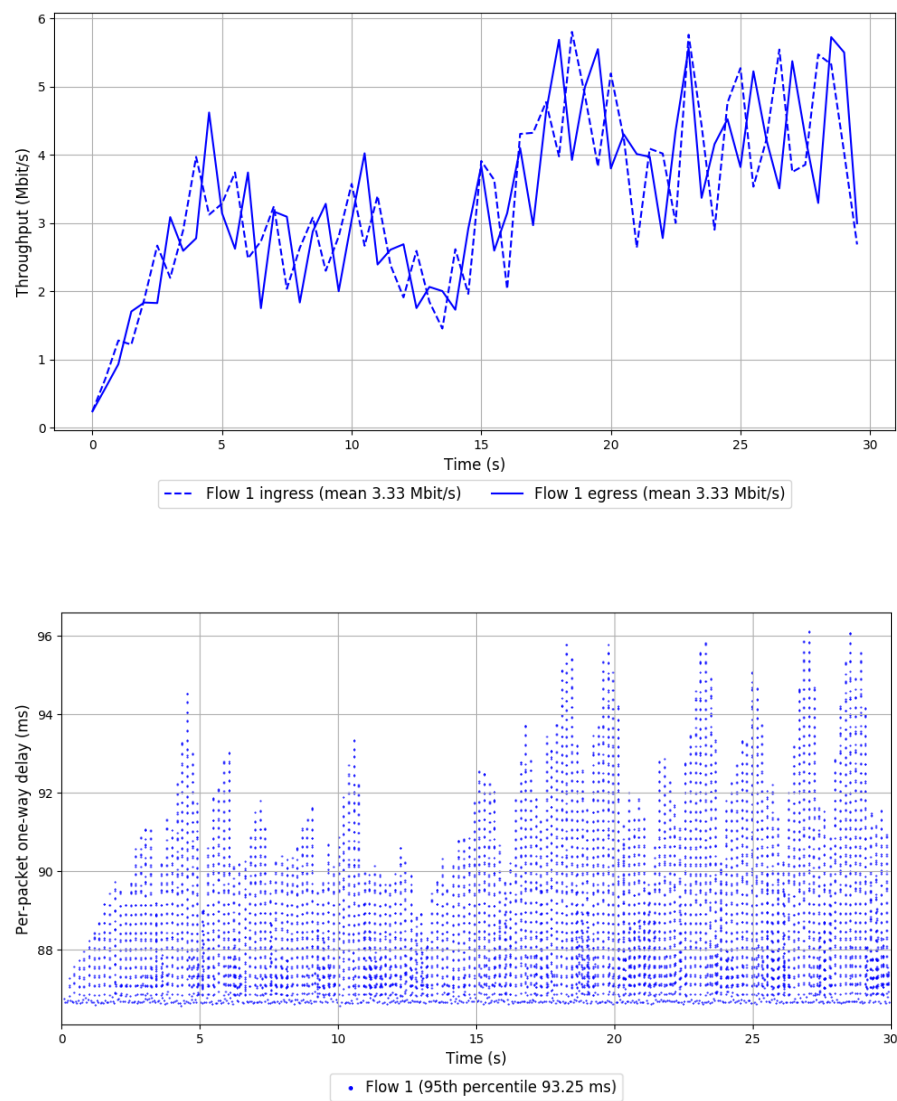
-- Flow 1:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 93.251 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-16 15:29:24

End at: 2018-01-16 15:29:54

Local clock offset: 1.183 ms

Remote clock offset: -0.38 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 92.595 ms

Loss rate: 0.00%

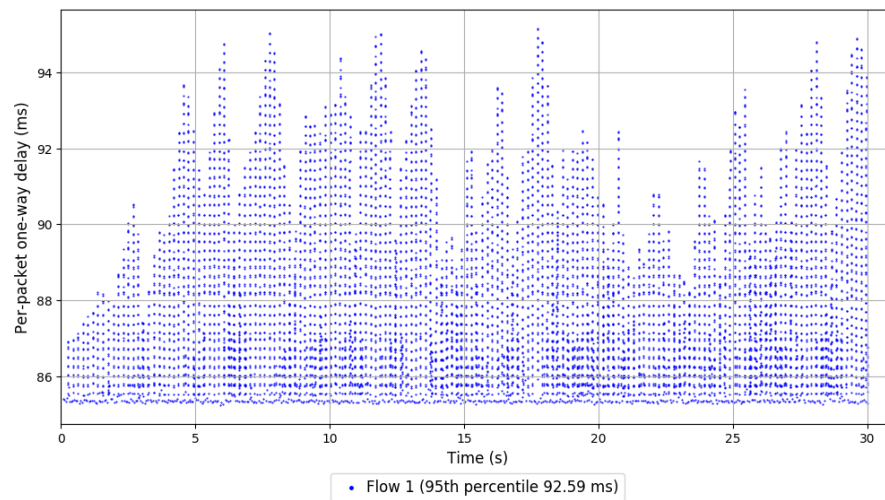
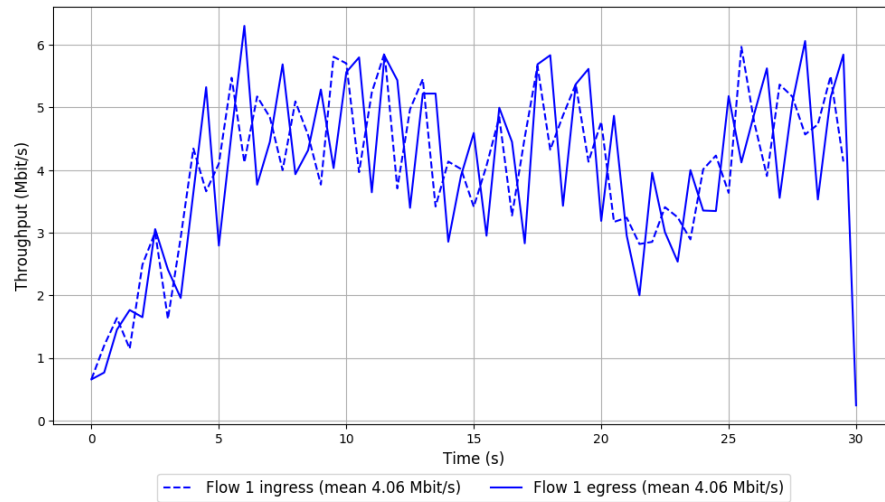
-- Flow 1:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 92.595 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 15:51:14

End at: 2018-01-16 15:51:44

Local clock offset: 1.135 ms

Remote clock offset: 0.495 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 94.385 ms

Loss rate: 0.00%

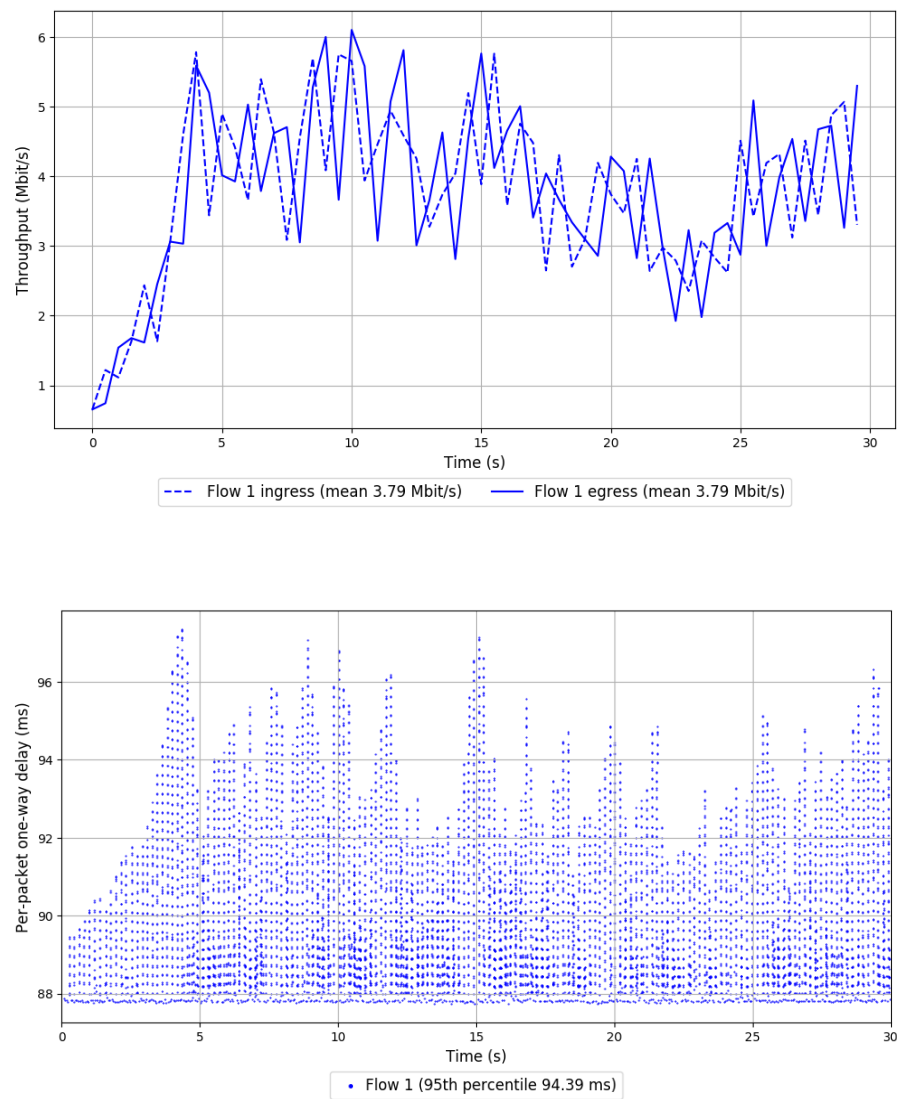
-- Flow 1:

Average throughput: 3.79 Mbit/s

95th percentile per-packet one-way delay: 94.385 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

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

End at: 2018-01-16 16:13:31

Local clock offset: 1.023 ms

Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-01-16 17:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 91.752 ms

Loss rate: 0.00%

-- Flow 1:

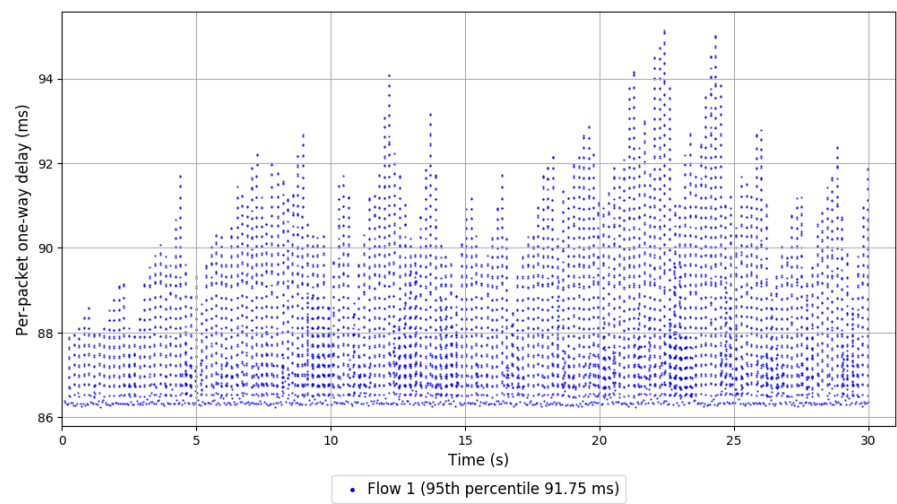
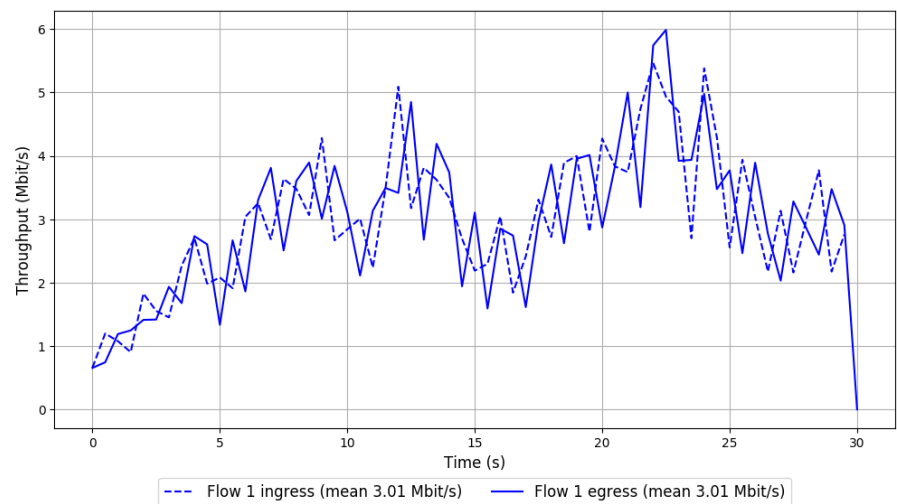
Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 91.752 ms

Loss rate: 0.00%



Run 7: Report of Sprout — Data Link

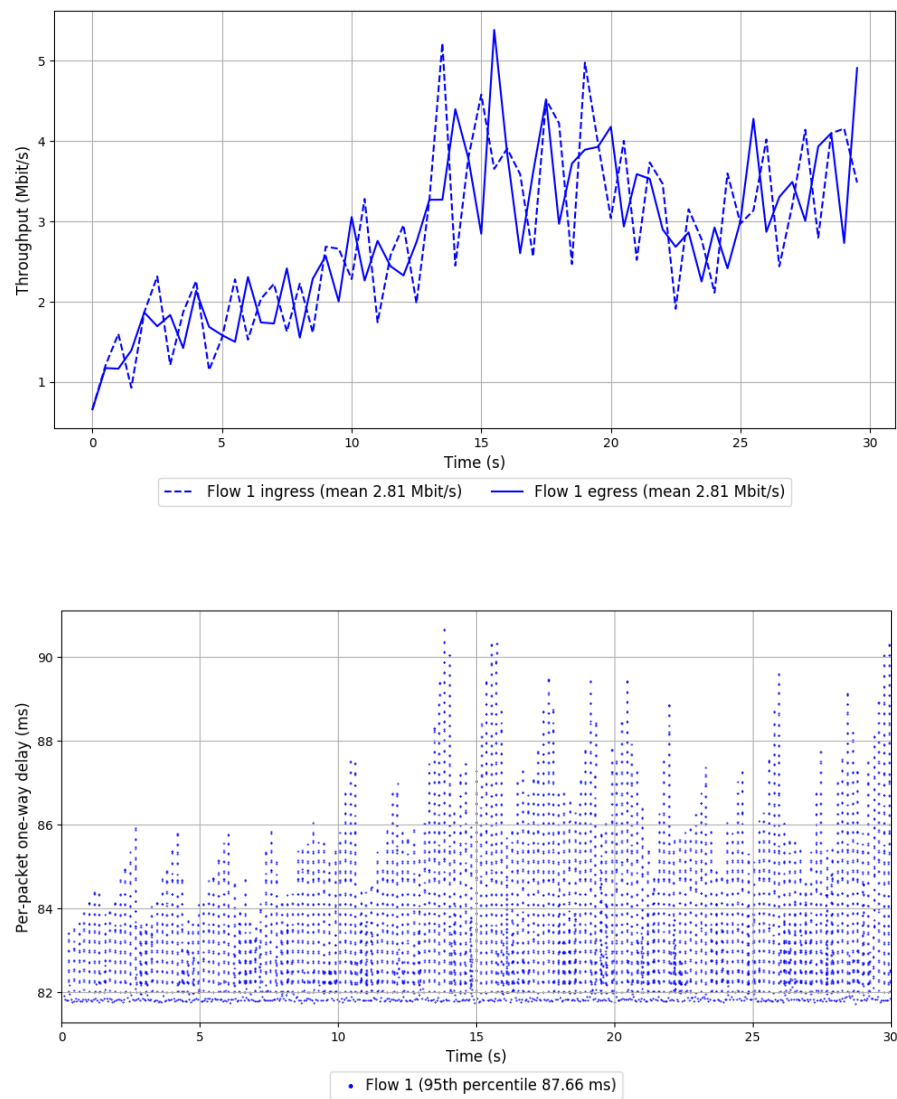


Run 8: Statistics of Sprout

Start at: 2018-01-16 16:34:50  
End at: 2018-01-16 16:35:20  
Local clock offset: 1.12 ms  
Remote clock offset: -5.884 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.81 Mbit/s  
95th percentile per-packet one-way delay: 87.661 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.81 Mbit/s  
95th percentile per-packet one-way delay: 87.661 ms  
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

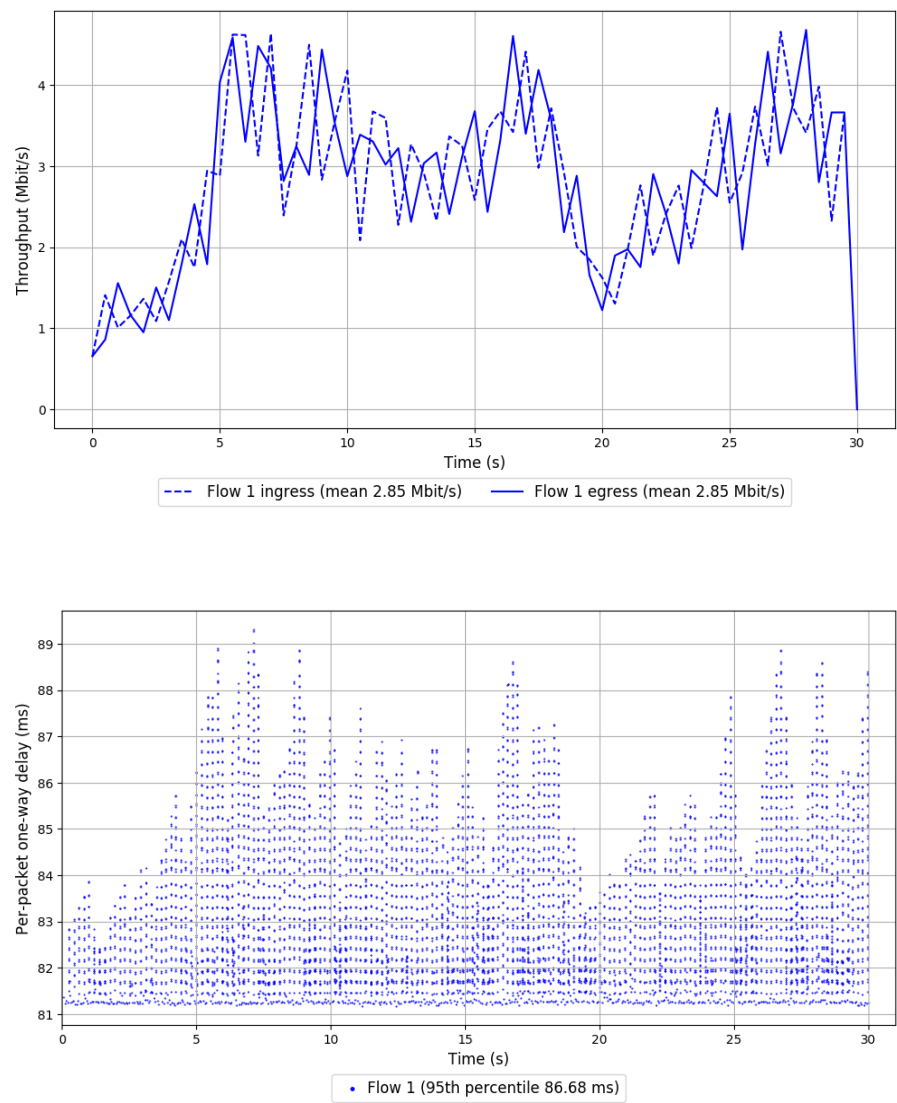


Run 9: Statistics of Sprout

Start at: 2018-01-16 16:56:49  
End at: 2018-01-16 16:57:19  
Local clock offset: 1.077 ms  
Remote clock offset: -5.784 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.85 Mbit/s  
95th percentile per-packet one-way delay: 86.683 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.85 Mbit/s  
95th percentile per-packet one-way delay: 86.683 ms  
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

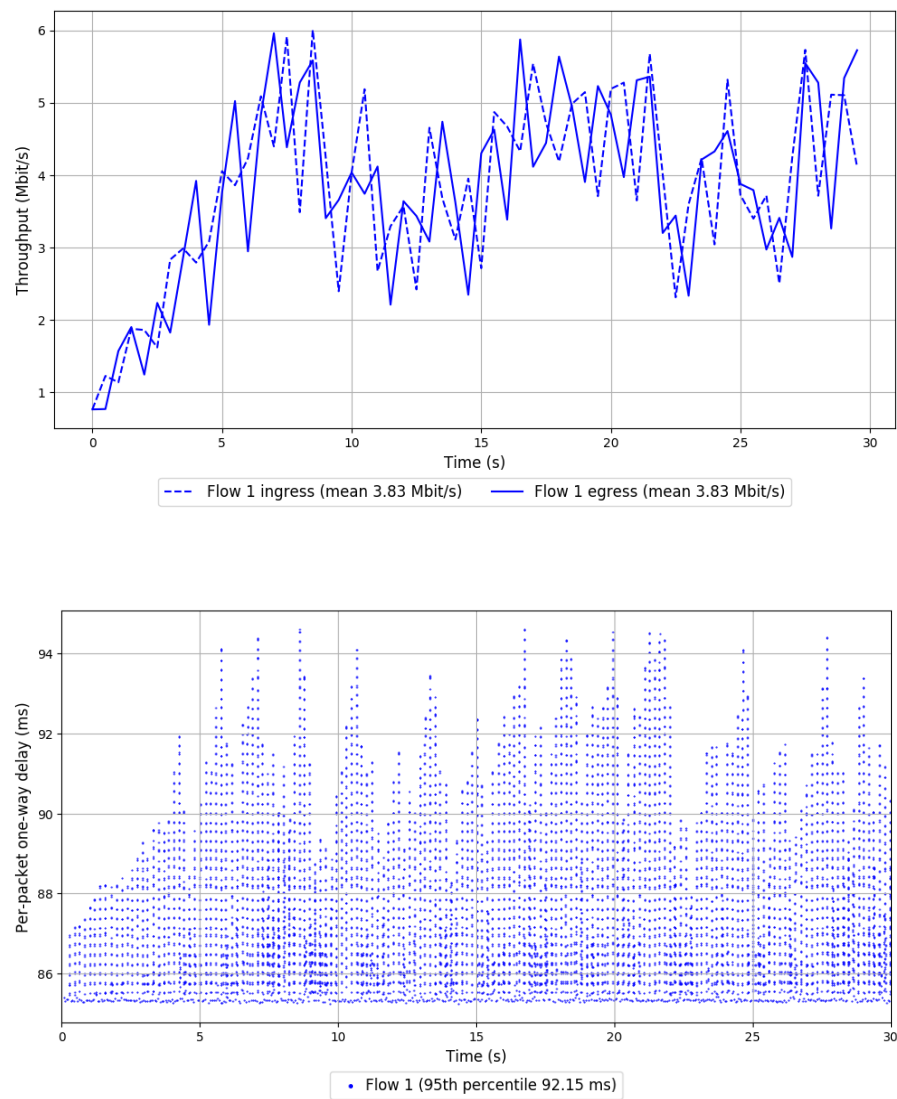


Run 10: Statistics of Sprout

Start at: 2018-01-16 17:18:44  
End at: 2018-01-16 17:19:14  
Local clock offset: 1.04 ms  
Remote clock offset: -1.856 ms

# Below is generated by plot.py at 2018-01-16 17:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.83 Mbit/s  
95th percentile per-packet one-way delay: 92.149 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.83 Mbit/s  
95th percentile per-packet one-way delay: 92.149 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



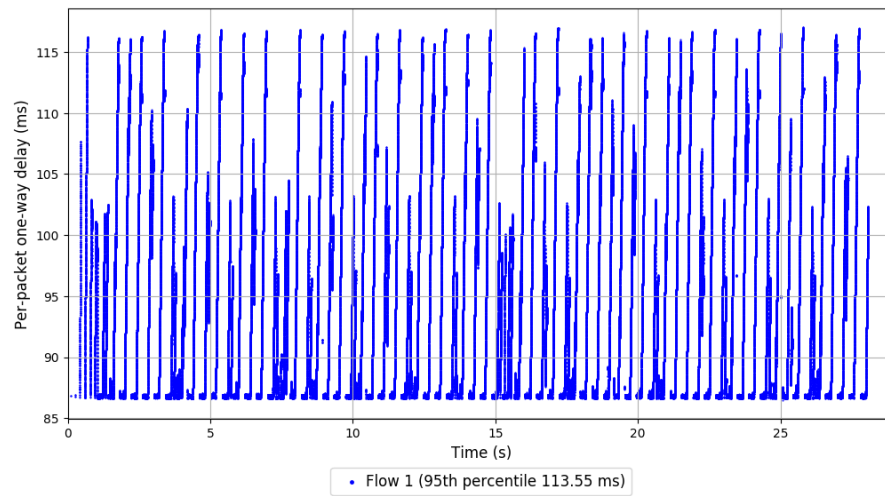
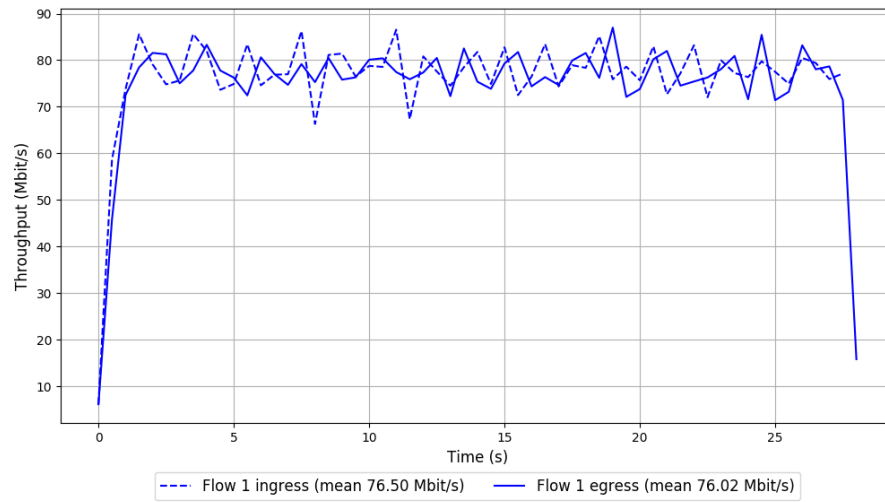
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 14:02:16
End at: 2018-01-16 14:02:46
Local clock offset: 0.325 ms
Remote clock offset: 1.587 ms

# Below is generated by plot.py at 2018-01-16 17:56:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.02 Mbit/s
95th percentile per-packet one-way delay: 113.545 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 76.02 Mbit/s
95th percentile per-packet one-way delay: 113.545 ms
Loss rate: 0.58%
```



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 14:24:13

End at: 2018-01-16 14:24:43

Local clock offset: 0.66 ms

Remote clock offset: 1.682 ms

# Below is generated by plot.py at 2018-01-16 17:56:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.56 Mbit/s

95th percentile per-packet one-way delay: 113.983 ms

Loss rate: 0.57%

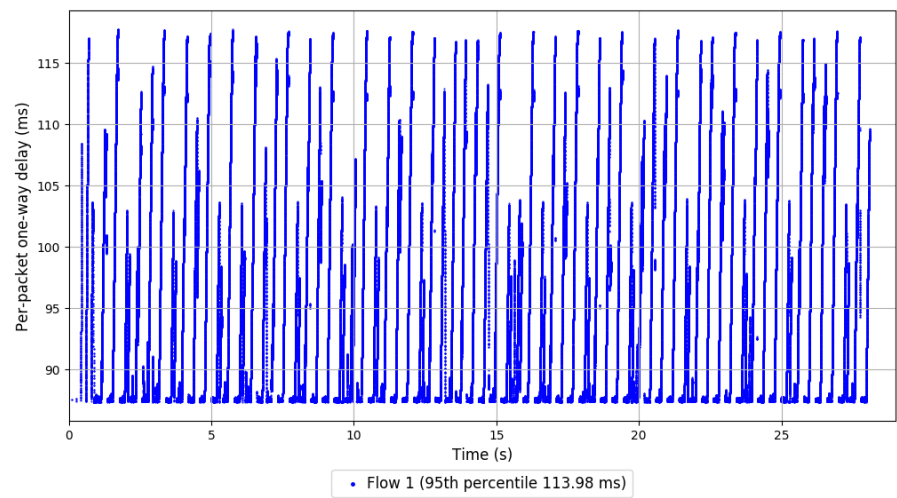
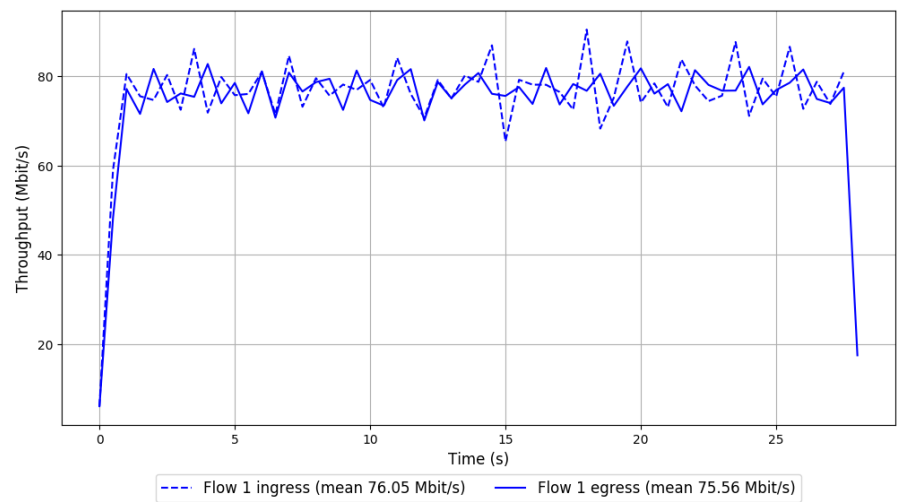
-- Flow 1:

Average throughput: 75.56 Mbit/s

95th percentile per-packet one-way delay: 113.983 ms

Loss rate: 0.57%

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



Run 3: Statistics of TaoVA-100x

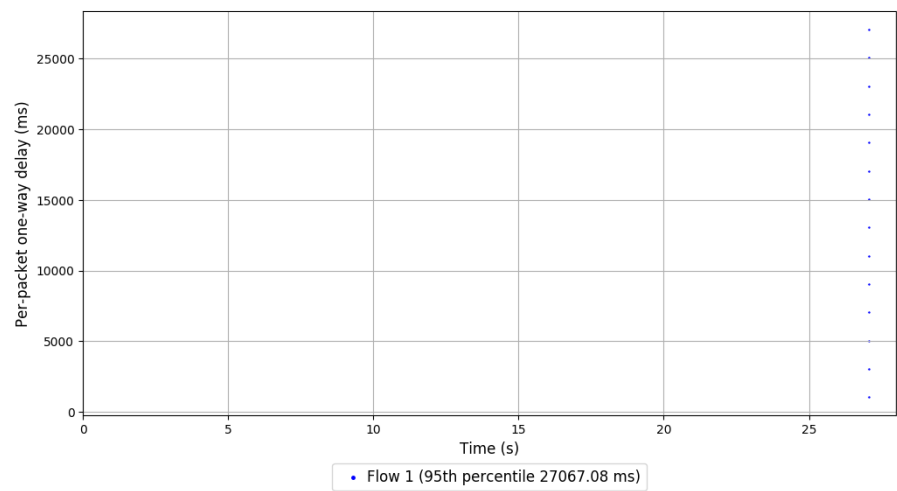
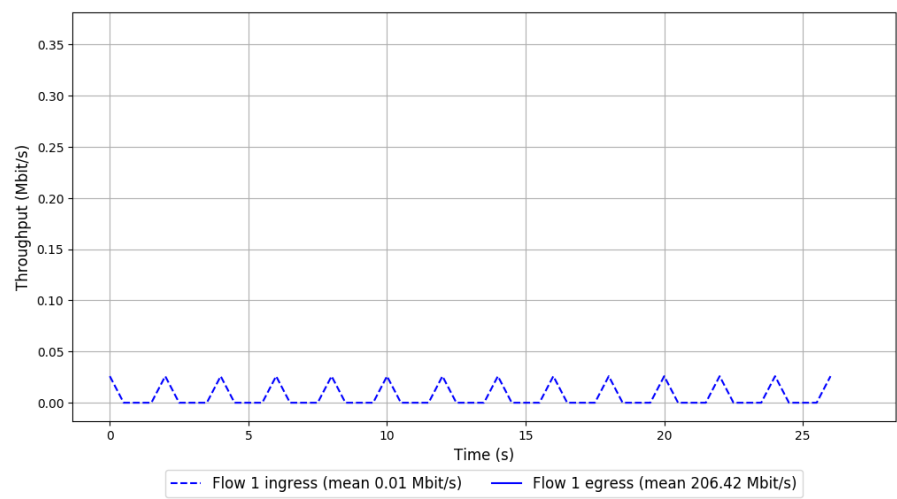
Start at: 2018-01-16 14:46:06

End at: 2018-01-16 14:46:36

Local clock offset: 1.076 ms

Remote clock offset: -4.932 ms

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 15:06:45

End at: 2018-01-16 15:07:15

Local clock offset: 1.079 ms

# Below is generated by plot.py at 2018-01-16 17:56:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.01 Mbit/s

95th percentile per-packet one-way delay: 113.548 ms

Loss rate: 0.69%

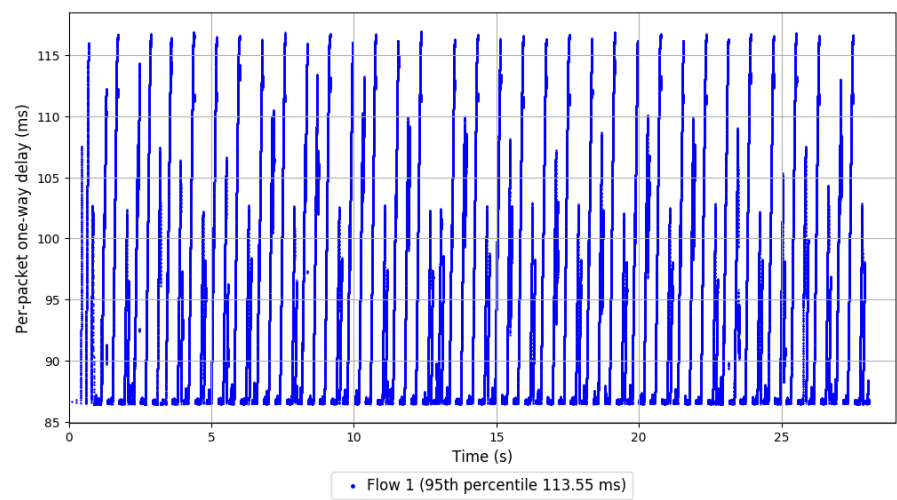
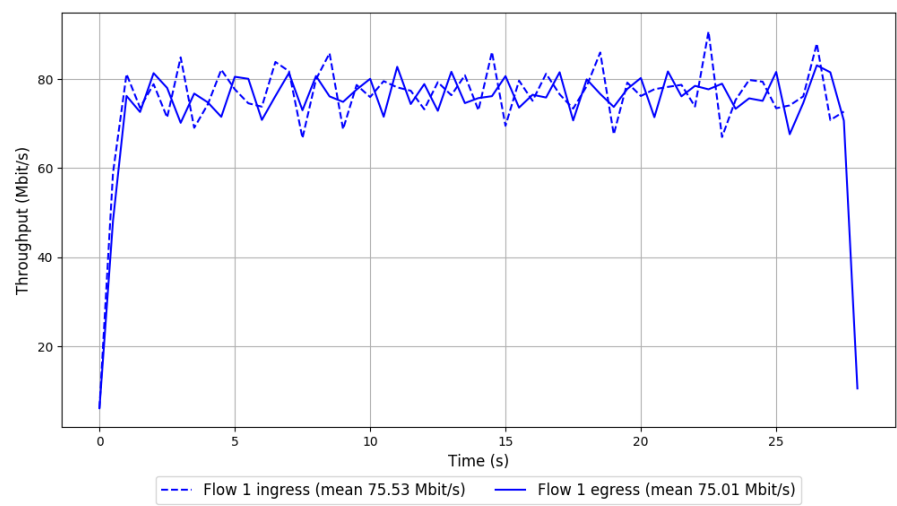
-- Flow 1:

Average throughput: 75.01 Mbit/s

95th percentile per-packet one-way delay: 113.548 ms

Loss rate: 0.69%

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



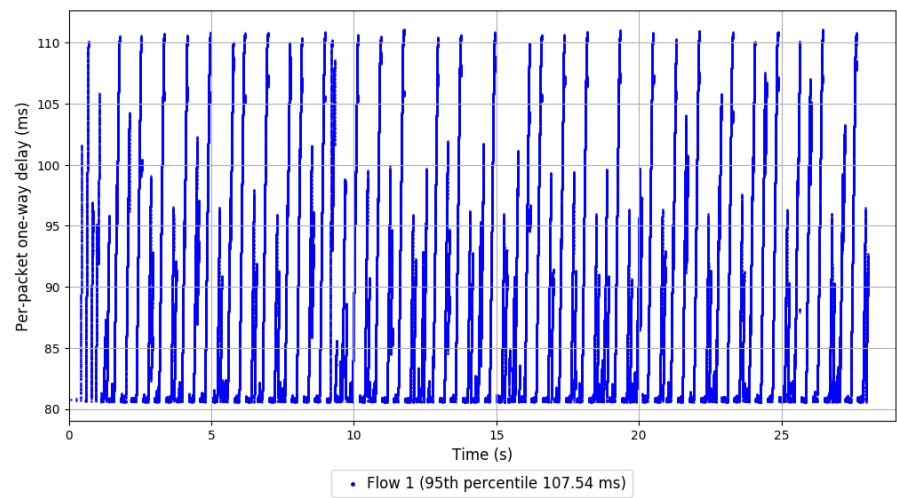
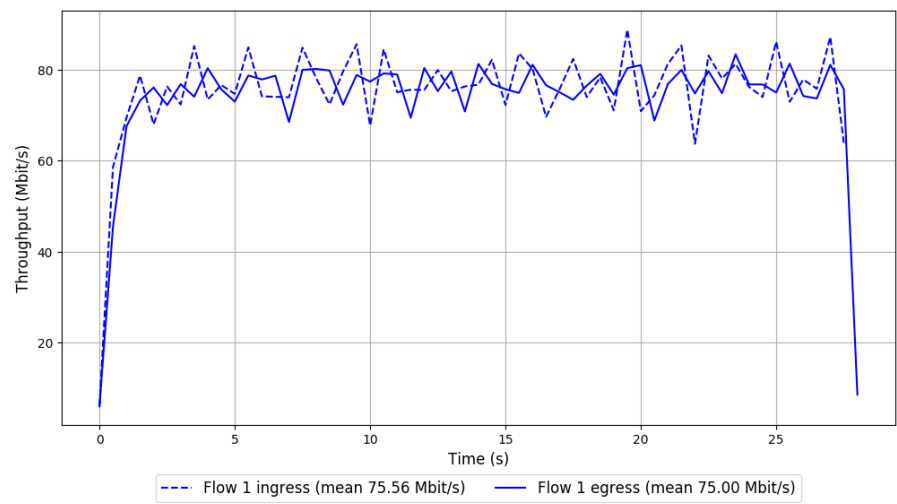
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 15:28:08  
End at: 2018-01-16 15:28:38  
Local clock offset: 1.173 ms  
Remote clock offset: -5.198 ms

# Below is generated by plot.py at 2018-01-16 17:56:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.00 Mbit/s  
95th percentile per-packet one-way delay: 107.538 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 75.00 Mbit/s  
95th percentile per-packet one-way delay: 107.538 ms  
Loss rate: 0.70%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 15:49:58

End at: 2018-01-16 15:50:28

Local clock offset: 1.049 ms

Remote clock offset: 1.464 ms

# Below is generated by plot.py at 2018-01-16 17:56:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 114.167 ms

Loss rate: 0.67%

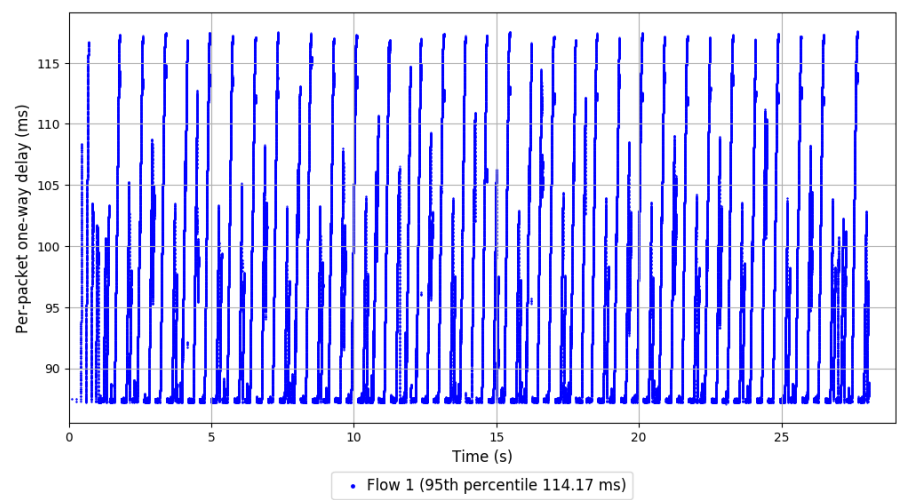
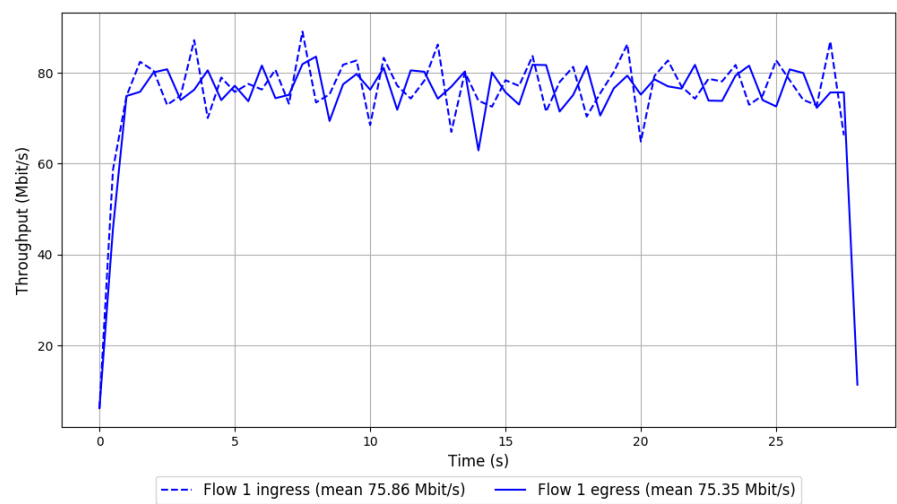
-- Flow 1:

Average throughput: 75.35 Mbit/s

95th percentile per-packet one-way delay: 114.167 ms

Loss rate: 0.67%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 16:11:45

End at: 2018-01-16 16:12:15

Local clock offset: 1.062 ms

Remote clock offset: 0.966 ms

# Below is generated by plot.py at 2018-01-16 17:56:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 113.867 ms

Loss rate: 0.66%

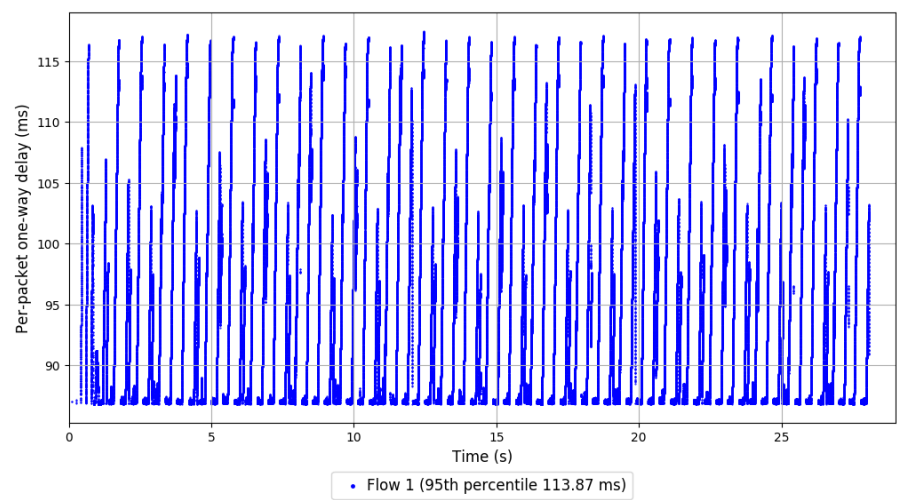
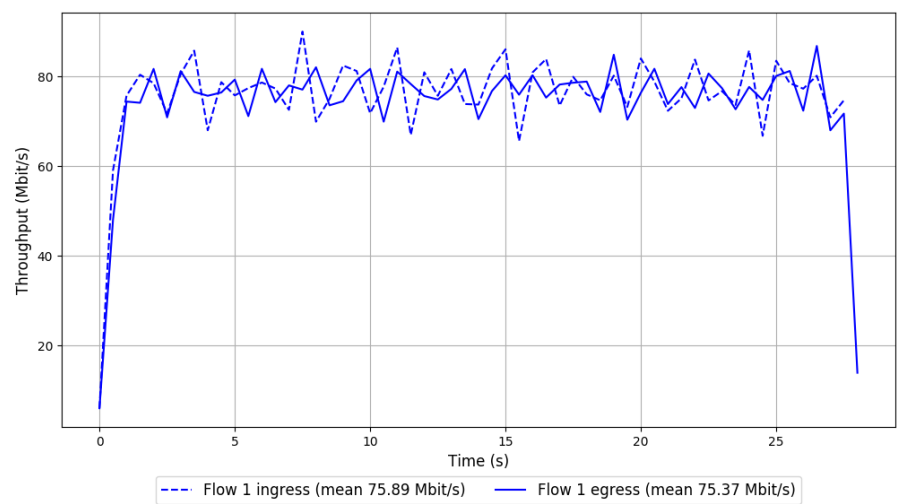
-- Flow 1:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 113.867 ms

Loss rate: 0.66%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-16 16:33:34

End at: 2018-01-16 16:34:04

Local clock offset: 1.109 ms

Remote clock offset: 0.726 ms

# Below is generated by plot.py at 2018-01-16 17:56:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 115.469 ms

Loss rate: 0.72%

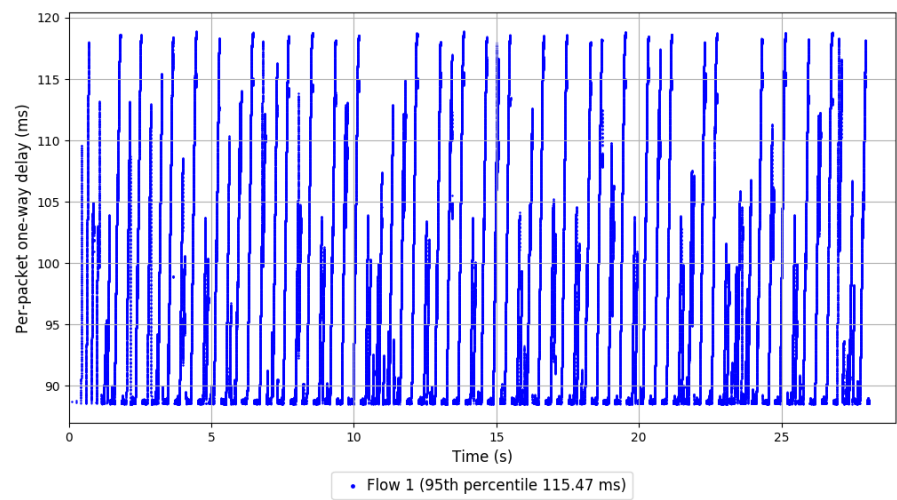
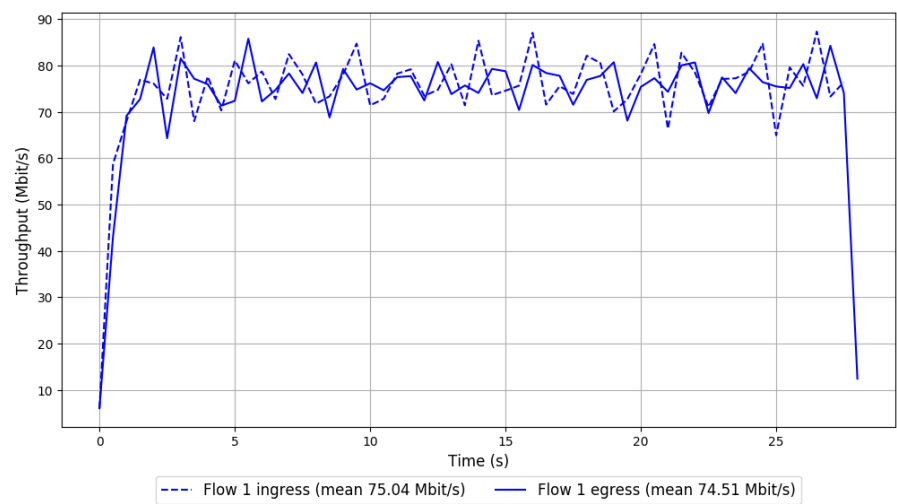
-- Flow 1:

Average throughput: 74.51 Mbit/s

95th percentile per-packet one-way delay: 115.469 ms

Loss rate: 0.72%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 16:55:32

End at: 2018-01-16 16:56:02

Local clock offset: 1.091 ms

Remote clock offset: -0.869 ms

# Below is generated by plot.py at 2018-01-16 17:56:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 112.949 ms

Loss rate: 0.71%

-- Flow 1:

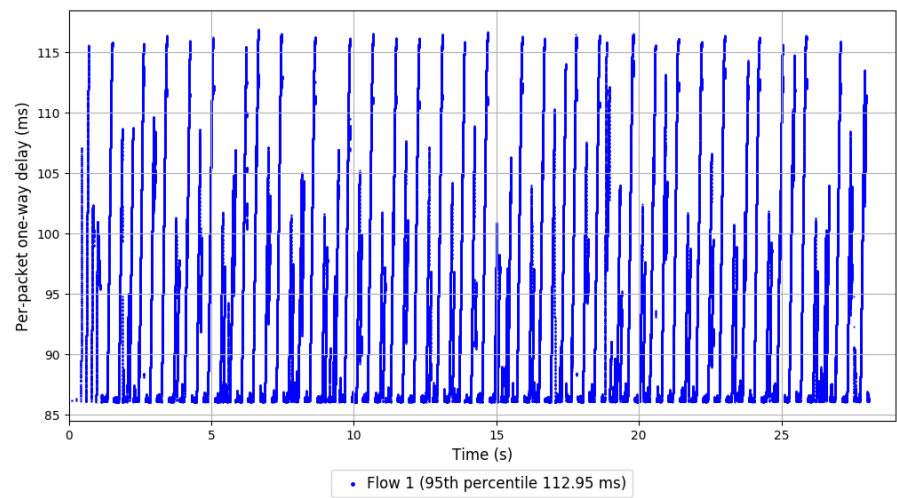
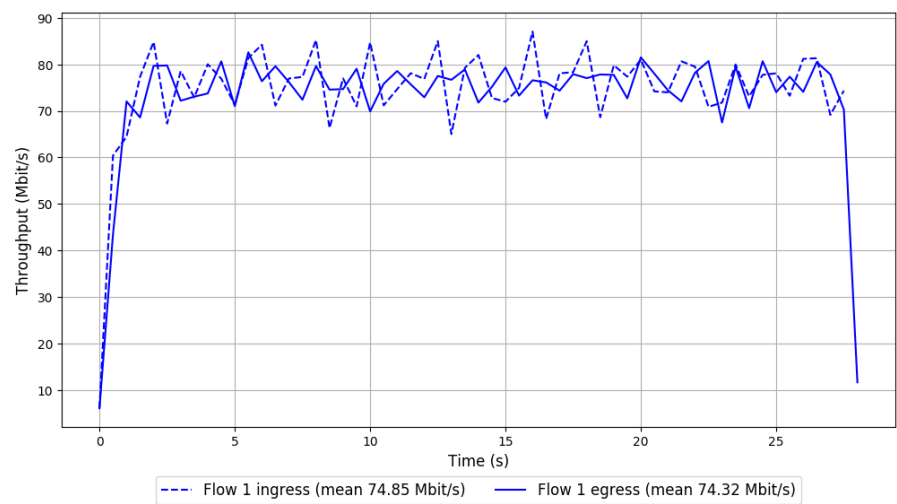
Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 112.949 ms

Loss rate: 0.71%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 17:17:28

End at: 2018-01-16 17:17:58

Local clock offset: 1.052 ms

Remote clock offset: -1.769 ms

# Below is generated by plot.py at 2018-01-16 17:58:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 113.087 ms

Loss rate: 0.58%

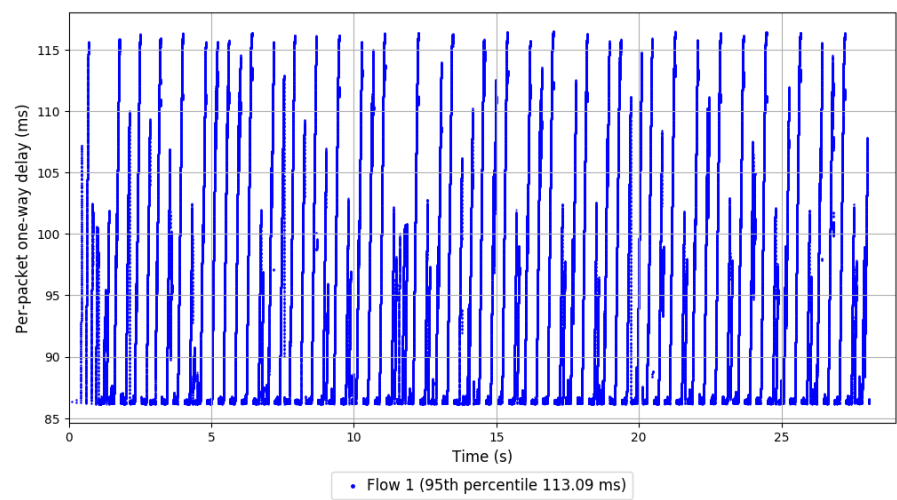
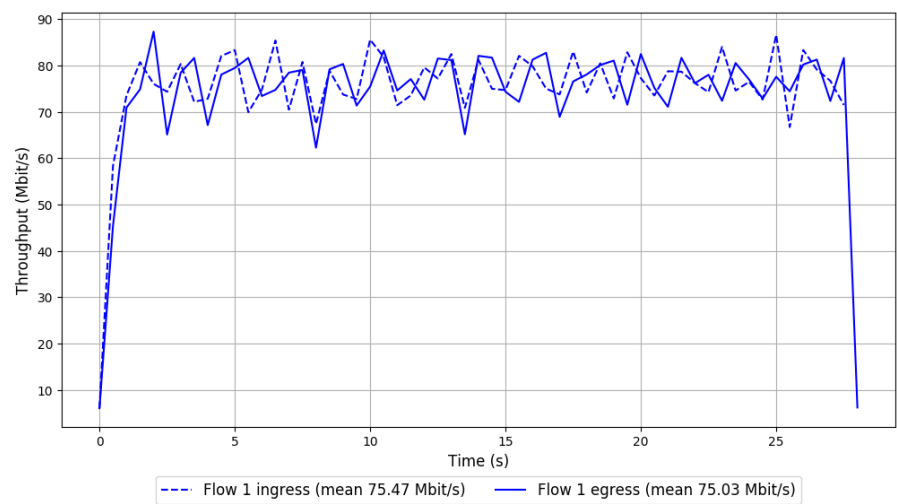
-- Flow 1:

Average throughput: 75.03 Mbit/s

95th percentile per-packet one-way delay: 113.087 ms

Loss rate: 0.58%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 13:57:20

End at: 2018-01-16 13:57:50

Local clock offset: 0.242 ms

Remote clock offset: 1.603 ms

# Below is generated by plot.py at 2018-01-16 17:58:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.67 Mbit/s

95th percentile per-packet one-way delay: 88.034 ms

Loss rate: 0.27%

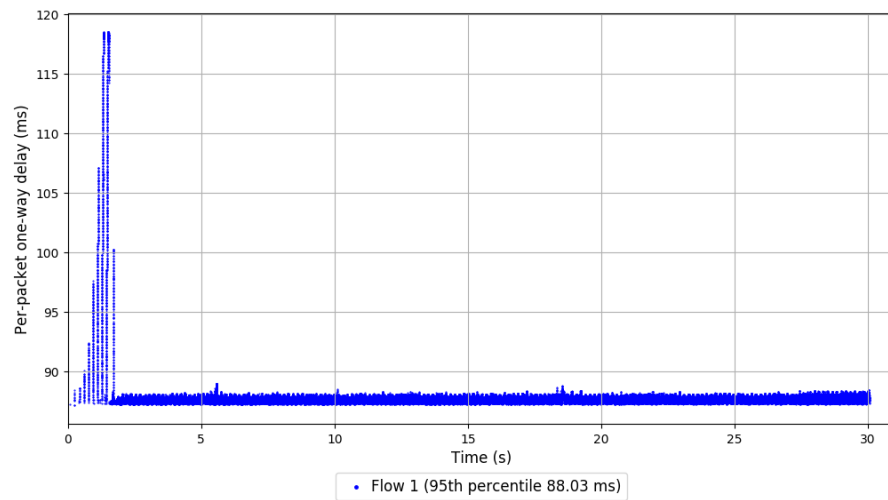
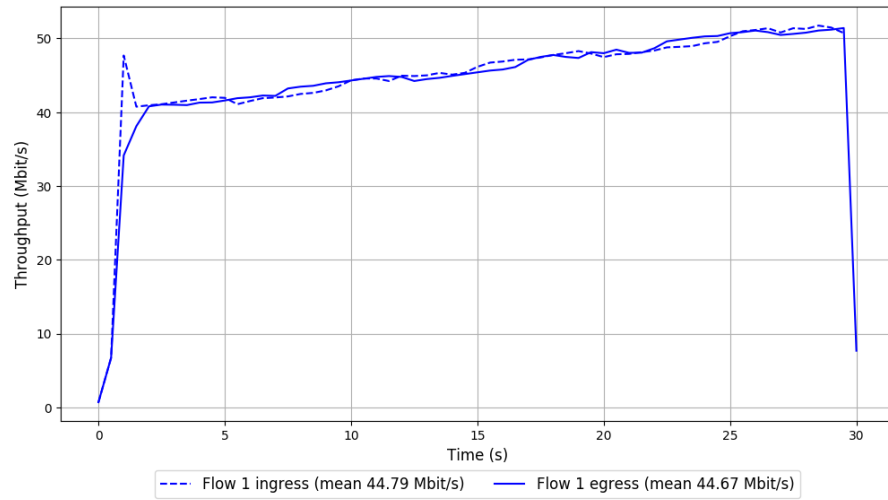
-- Flow 1:

Average throughput: 44.67 Mbit/s

95th percentile per-packet one-way delay: 88.034 ms

Loss rate: 0.27%

### Run 1: Report of TCP Vegas — Data Link

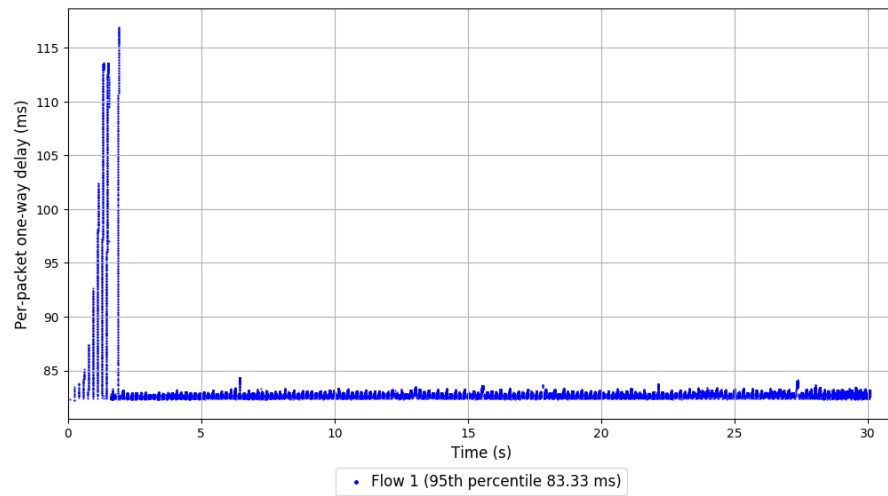
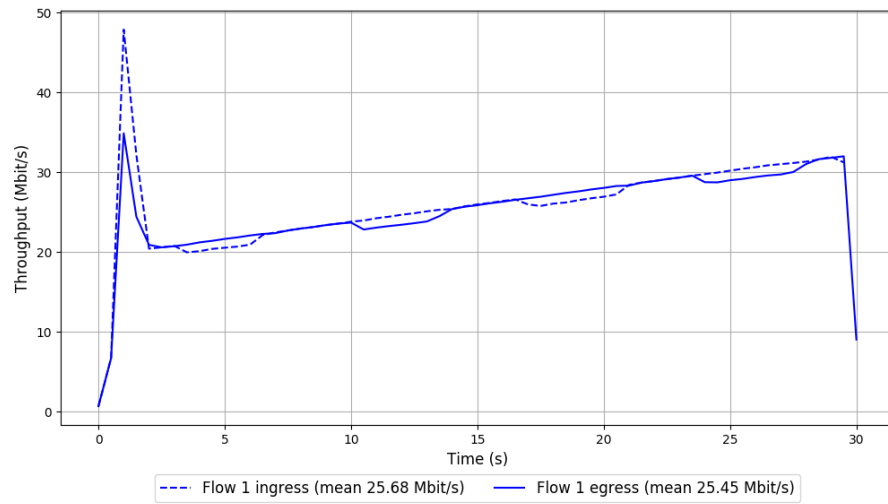


Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 14:19:18  
End at: 2018-01-16 14:19:48  
Local clock offset: 0.66 ms  
Remote clock offset: -4.772 ms

# Below is generated by plot.py at 2018-01-16 17:58:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 25.45 Mbit/s  
95th percentile per-packet one-way delay: 83.329 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 25.45 Mbit/s  
95th percentile per-packet one-way delay: 83.329 ms  
Loss rate: 0.91%

## Run 2: Report of TCP Vegas — Data Link



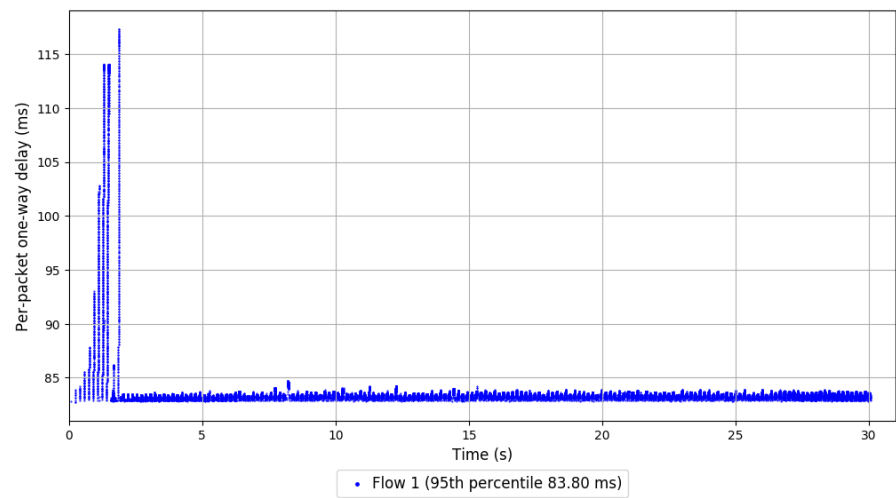
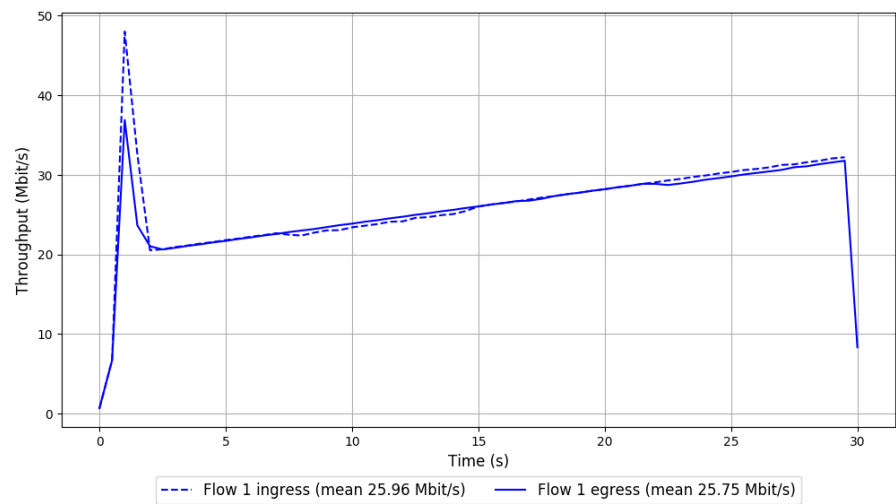
Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 14:41:11  
End at: 2018-01-16 14:41:41  
Local clock offset: 0.997 ms  
Remote clock offset: -4.008 ms

# Below is generated by plot.py at 2018-01-16 17:58:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 25.75 Mbit/s  
95th percentile per-packet one-way delay: 83.803 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 25.75 Mbit/s  
95th percentile per-packet one-way delay: 83.803 ms  
Loss rate: 0.83%



Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 15:02:47

End at: 2018-01-16 15:03:17

Local clock offset: 1.145 ms

# Below is generated by plot.py at 2018-01-16 17:58:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.37 Mbit/s

95th percentile per-packet one-way delay: 88.974 ms

Loss rate: 0.30%

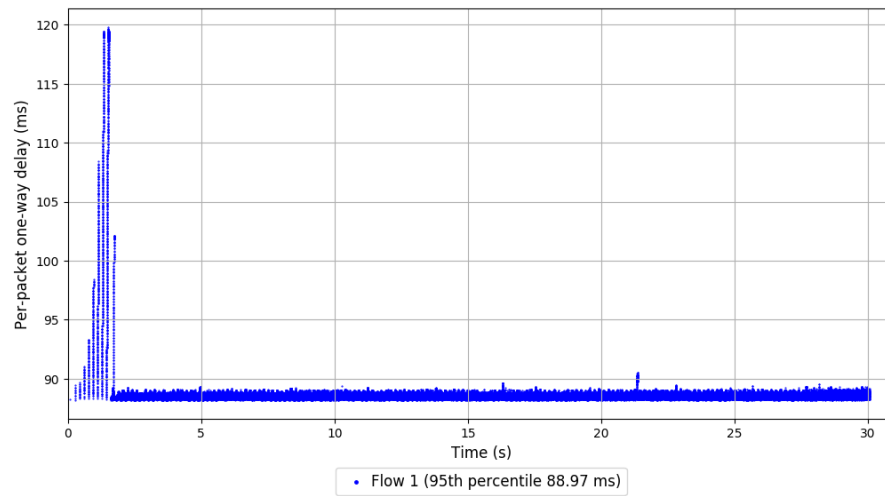
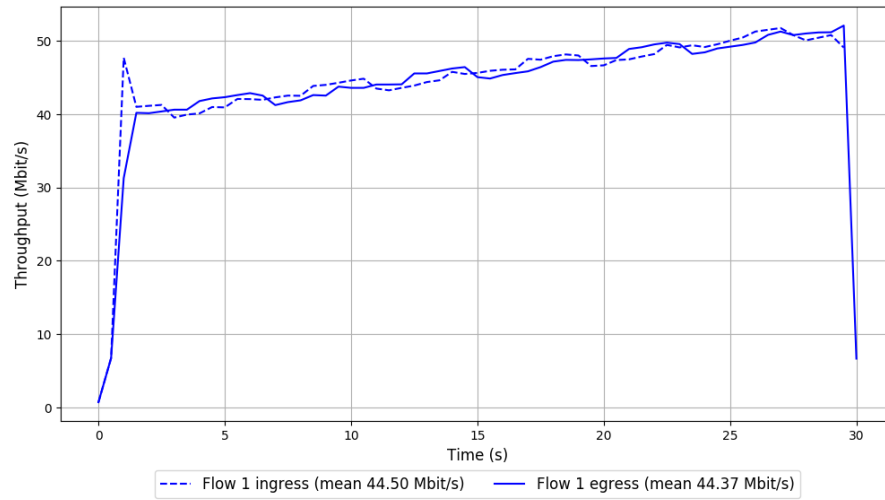
-- Flow 1:

Average throughput: 44.37 Mbit/s

95th percentile per-packet one-way delay: 88.974 ms

Loss rate: 0.30%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 15:23:12

End at: 2018-01-16 15:23:42

Local clock offset: 1.159 ms

Remote clock offset: 1.205 ms

# Below is generated by plot.py at 2018-01-16 17:58:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 87.829 ms

Loss rate: 0.28%

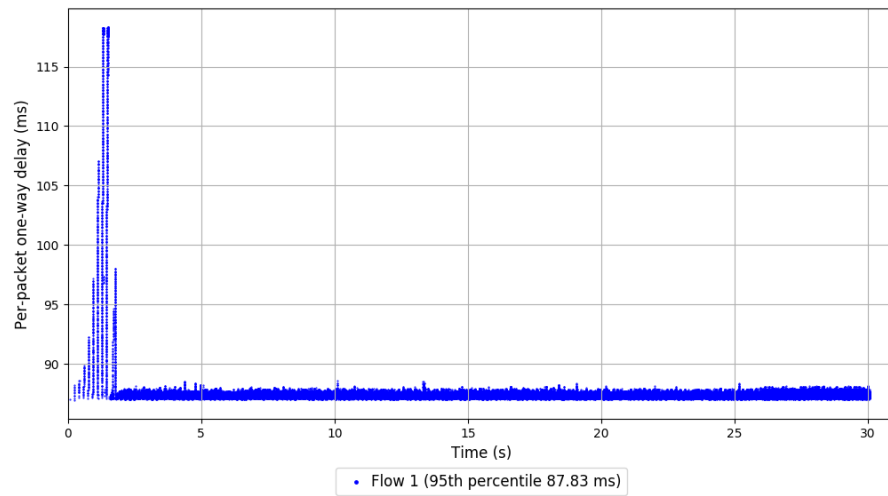
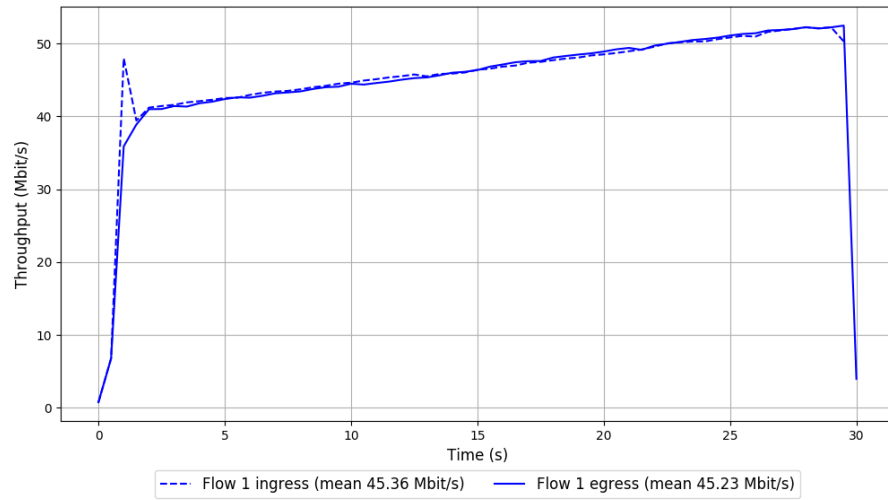
-- Flow 1:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 87.829 ms

Loss rate: 0.28%

### Run 5: Report of TCP Vegas — Data Link

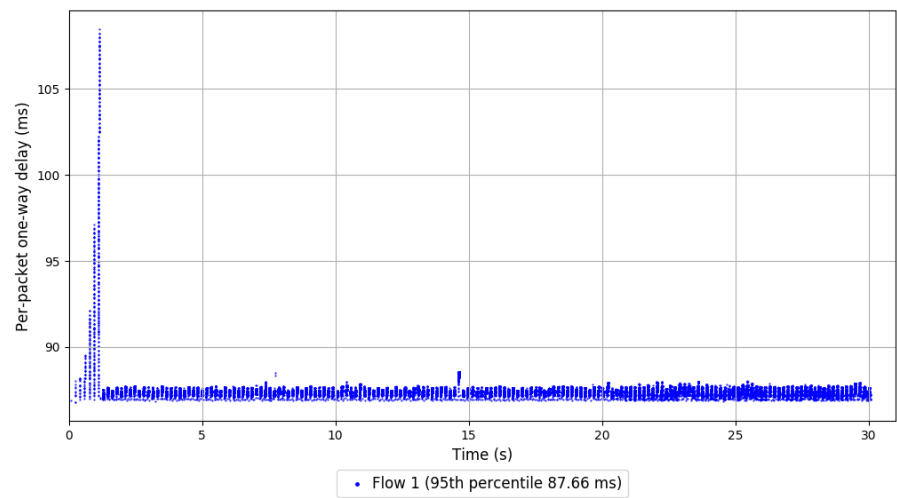
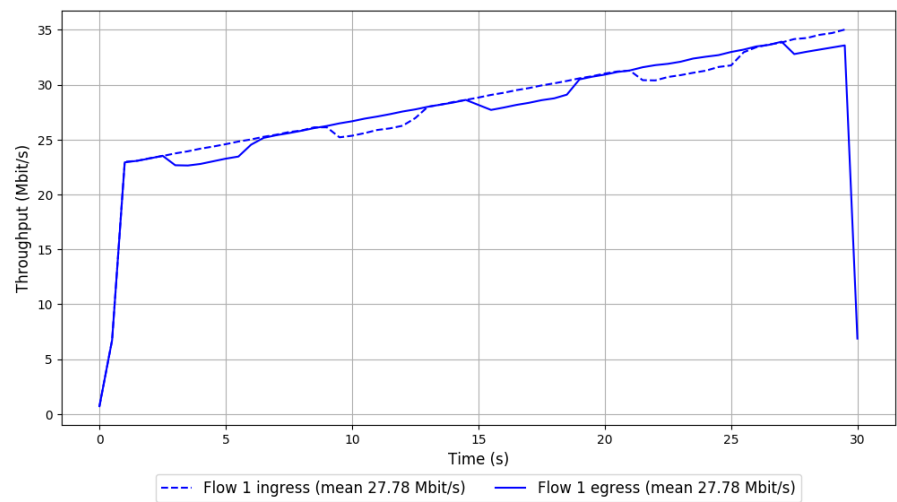


Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 15:45:03  
End at: 2018-01-16 15:45:33  
Local clock offset: 1.153 ms  
Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2018-01-16 17:58:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 27.78 Mbit/s  
95th percentile per-packet one-way delay: 87.658 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 27.78 Mbit/s  
95th percentile per-packet one-way delay: 87.658 ms  
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 16:06:49

End at: 2018-01-16 16:07:19

Local clock offset: 1.112 ms

Remote clock offset: 0.983 ms

# Below is generated by plot.py at 2018-01-16 17:58:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.13 Mbit/s

95th percentile per-packet one-way delay: 89.246 ms

Loss rate: 0.28%

-- Flow 1:

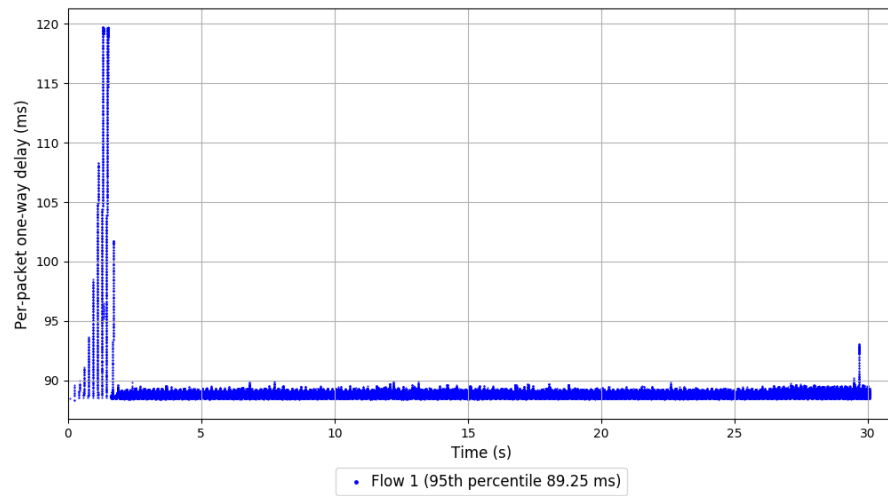
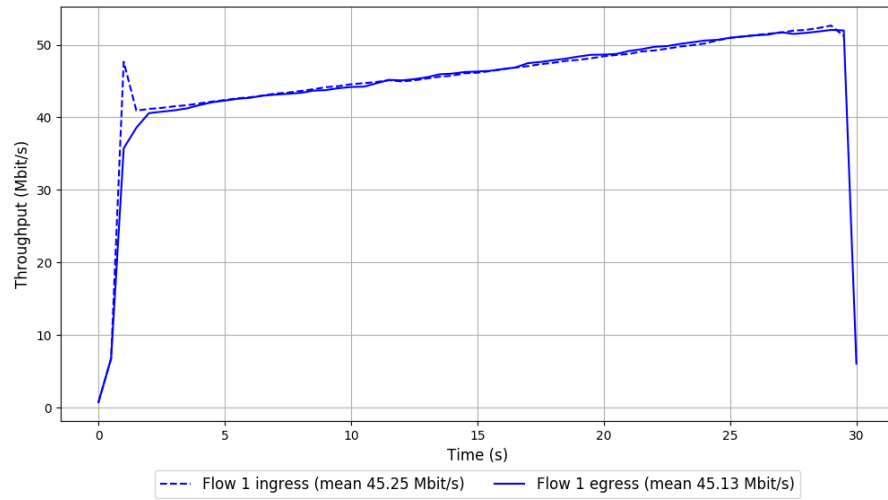
Average throughput: 45.13 Mbit/s

95th percentile per-packet one-way delay: 89.246 ms

Loss rate: 0.28%



### Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 16:28:38

End at: 2018-01-16 16:29:08

Local clock offset: 1.112 ms

Remote clock offset: -4.88 ms

# Below is generated by plot.py at 2018-01-16 17:58:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 84.350 ms

Loss rate: 0.88%

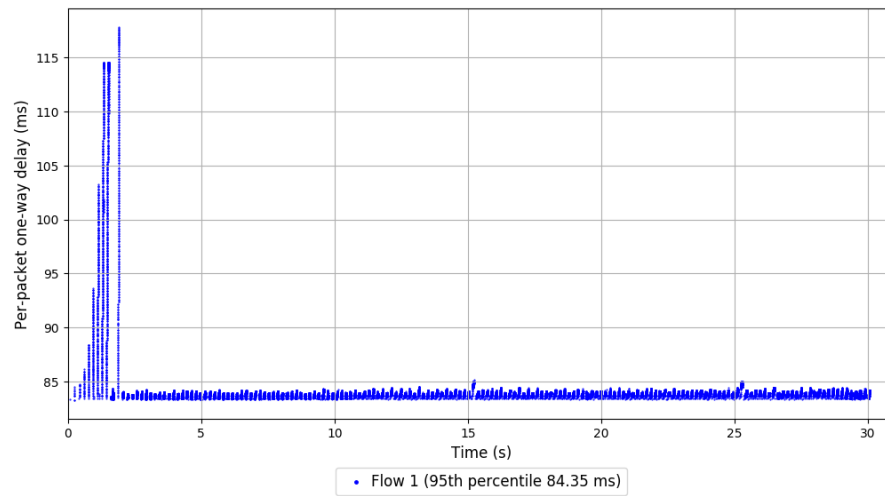
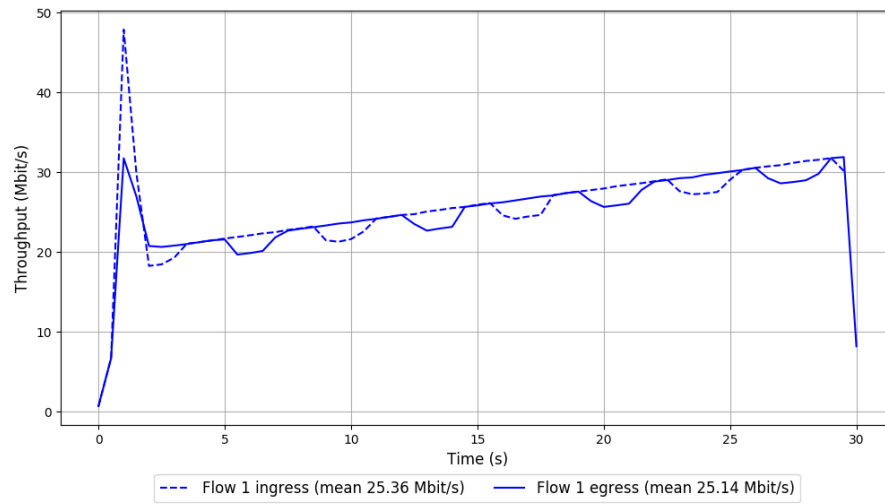
-- Flow 1:

Average throughput: 25.14 Mbit/s

95th percentile per-packet one-way delay: 84.350 ms

Loss rate: 0.88%

### Run 8: Report of TCP Vegas — Data Link

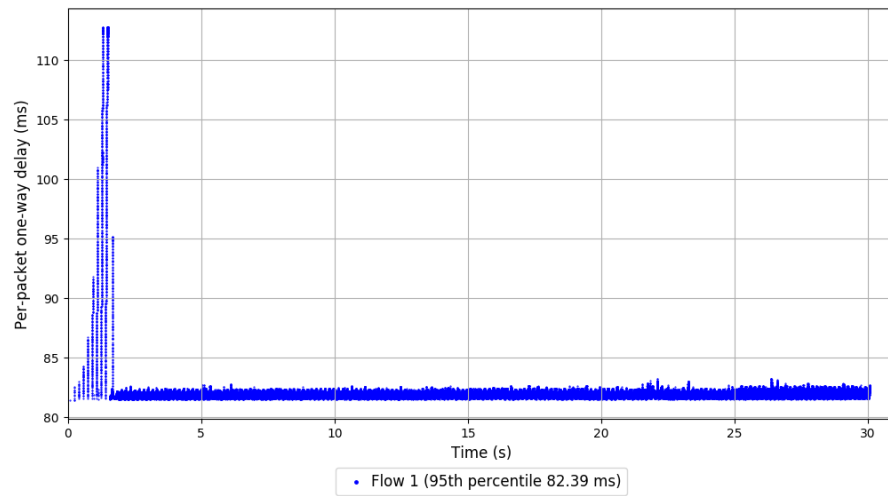
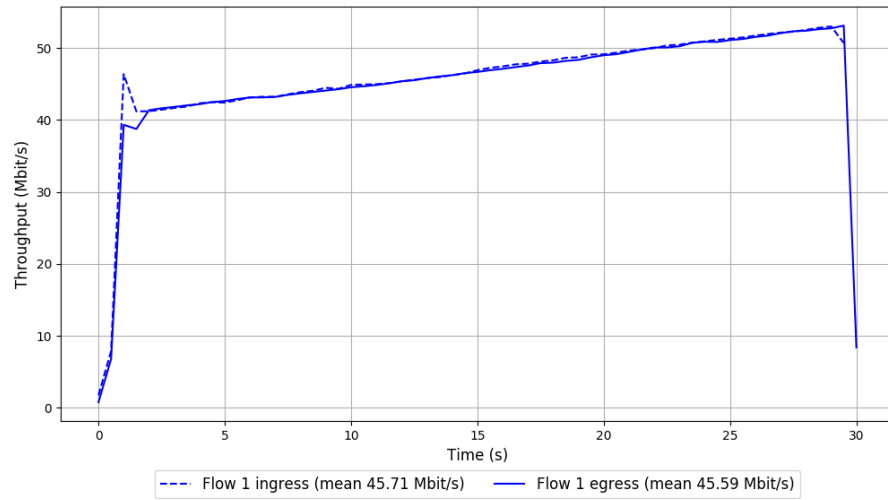


Run 9: Statistics of TCP Vegas

Start at: 2018-01-16 16:50:35  
End at: 2018-01-16 16:51:05  
Local clock offset: 1.159 ms  
Remote clock offset: -5.543 ms

# Below is generated by plot.py at 2018-01-16 17:58:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 45.59 Mbit/s  
95th percentile per-packet one-way delay: 82.394 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 45.59 Mbit/s  
95th percentile per-packet one-way delay: 82.394 ms  
Loss rate: 0.27%

### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 17:12:33

End at: 2018-01-16 17:13:03

Local clock offset: 1.023 ms

Remote clock offset: -1.56 ms

# Below is generated by plot.py at 2018-01-16 17:58:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 25.43 Mbit/s

95th percentile per-packet one-way delay: 88.307 ms

Loss rate: 0.87%

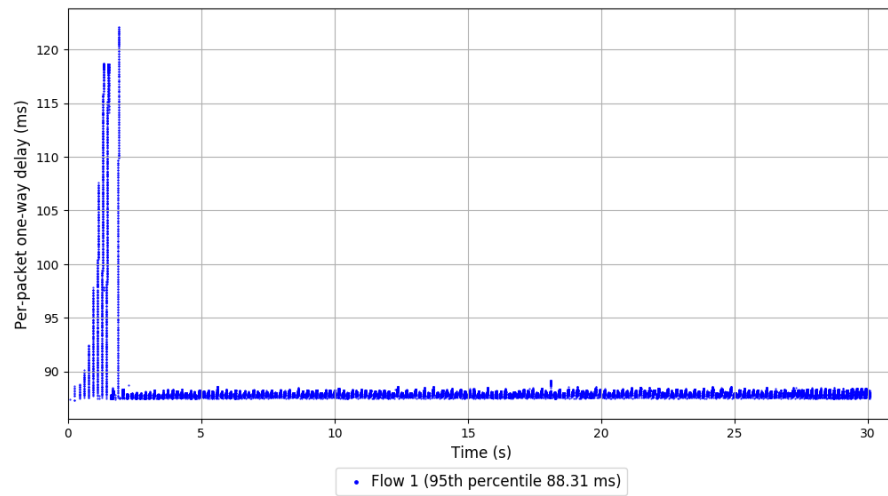
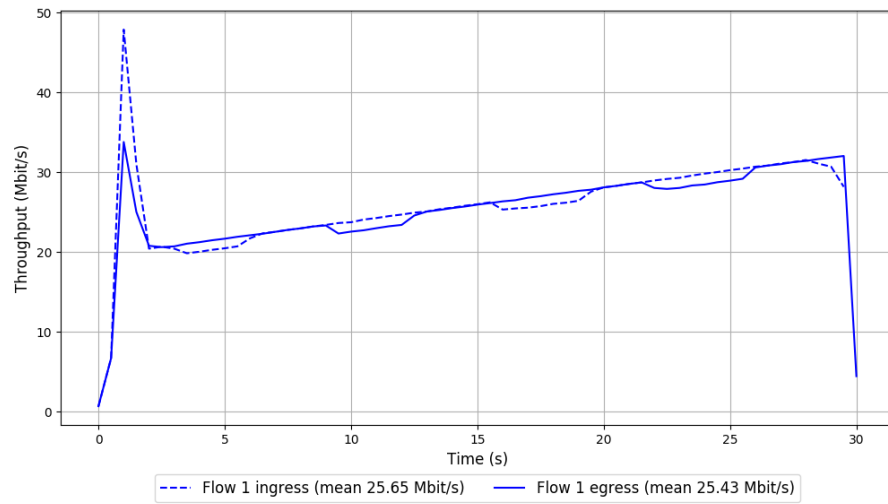
-- Flow 1:

Average throughput: 25.43 Mbit/s

95th percentile per-packet one-way delay: 88.307 ms

Loss rate: 0.87%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-16 13:56:08

End at: 2018-01-16 13:56:38

Local clock offset: 0.219 ms

Remote clock offset: 0.72 ms

# Below is generated by plot.py at 2018-01-16 17:58:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 26.83 Mbit/s

95th percentile per-packet one-way delay: 118.429 ms

Loss rate: 10.00%

-- Flow 1:

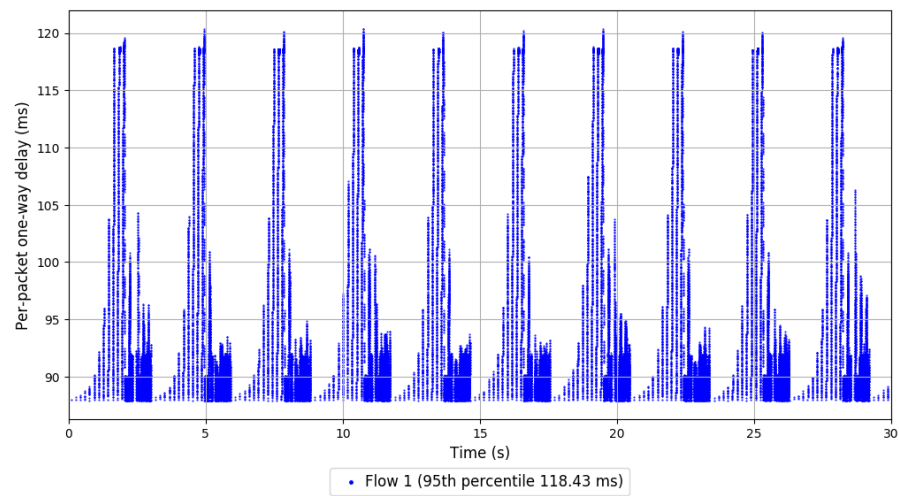
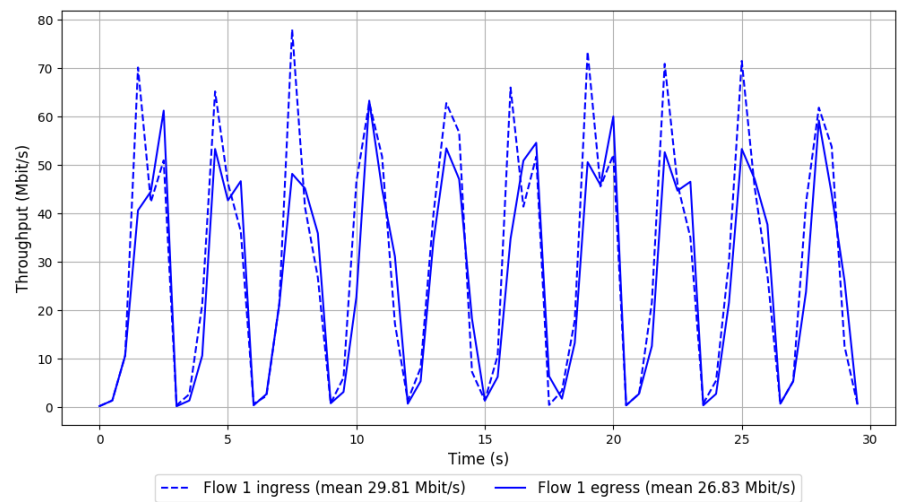
Average throughput: 26.83 Mbit/s

95th percentile per-packet one-way delay: 118.429 ms

Loss rate: 10.00%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 14:18:06

End at: 2018-01-16 14:18:36

Local clock offset: 0.651 ms

Remote clock offset: 1.695 ms

# Below is generated by plot.py at 2018-01-16 17:58:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 27.15 Mbit/s

95th percentile per-packet one-way delay: 119.046 ms

Loss rate: 10.52%

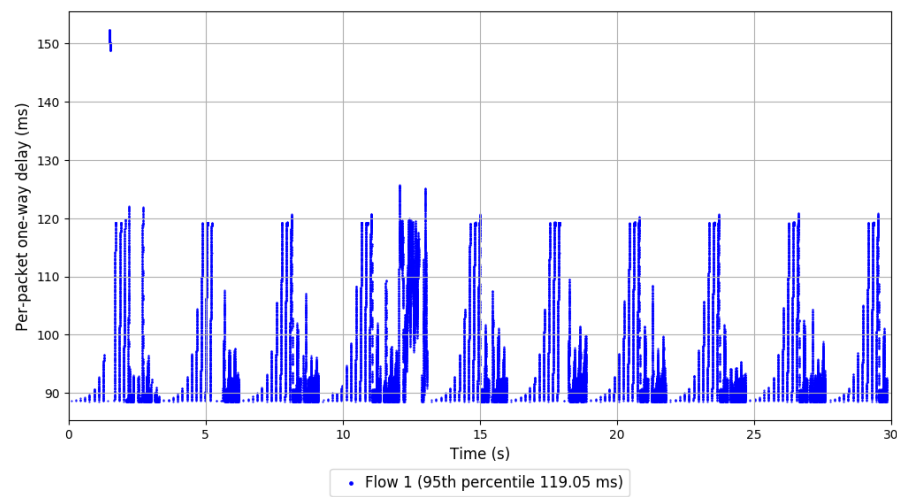
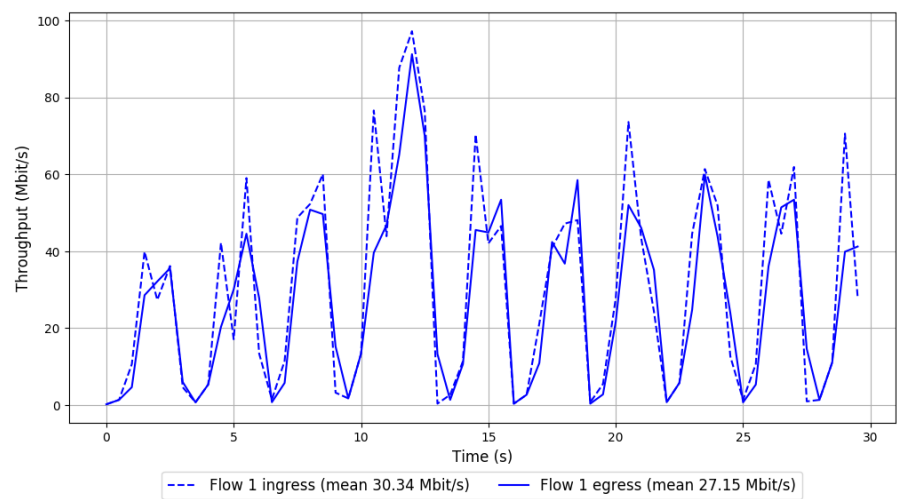
-- Flow 1:

Average throughput: 27.15 Mbit/s

95th percentile per-packet one-way delay: 119.046 ms

Loss rate: 10.52%

Run 2: Report of Verus — Data Link

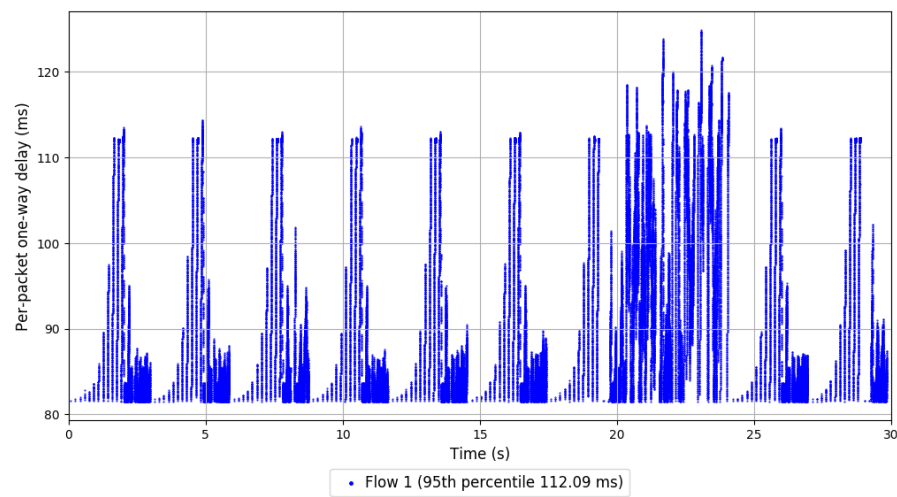
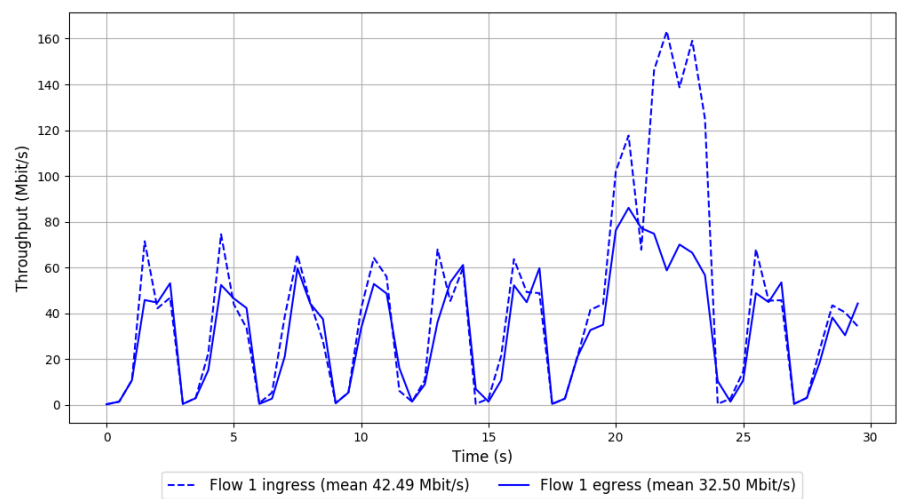


Run 3: Statistics of Verus

Start at: 2018-01-16 14:39:59  
End at: 2018-01-16 14:40:29  
Local clock offset: 0.932 ms  
Remote clock offset: -4.072 ms

# Below is generated by plot.py at 2018-01-16 17:58:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 32.50 Mbit/s  
95th percentile per-packet one-way delay: 112.087 ms  
Loss rate: 23.51%  
-- Flow 1:  
Average throughput: 32.50 Mbit/s  
95th percentile per-packet one-way delay: 112.087 ms  
Loss rate: 23.51%

Run 3: Report of Verus — Data Link

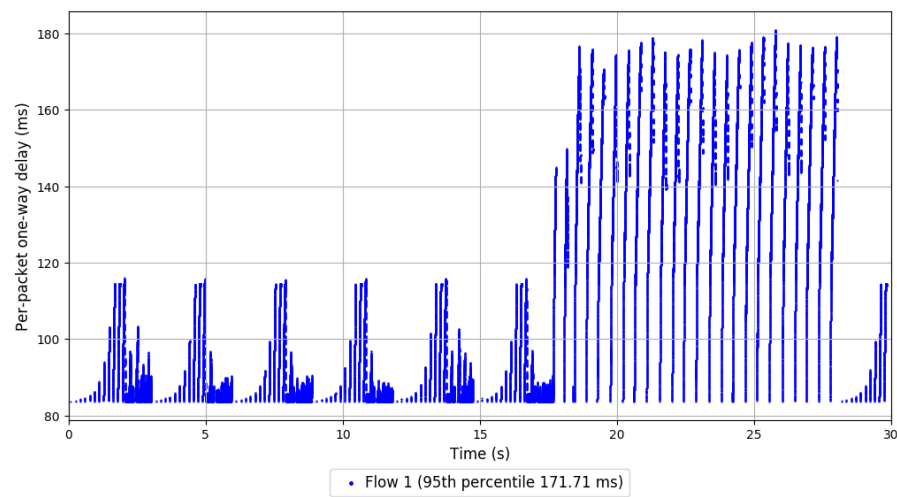
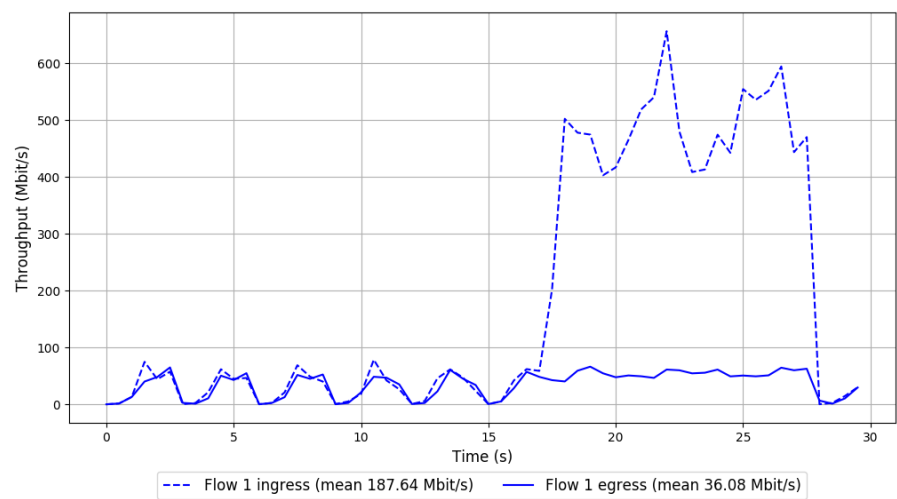


Run 4: Statistics of Verus

Start at: 2018-01-16 15:01:47  
End at: 2018-01-16 15:02:17  
Local clock offset: 1.144 ms  
Remote clock offset: -4.084 ms

# Below is generated by plot.py at 2018-01-16 17:58:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 36.08 Mbit/s  
95th percentile per-packet one-way delay: 171.709 ms  
Loss rate: 80.75%  
-- Flow 1:  
Average throughput: 36.08 Mbit/s  
95th percentile per-packet one-way delay: 171.709 ms  
Loss rate: 80.75%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 15:21:59

End at: 2018-01-16 15:22:29

Local clock offset: 1.164 ms

Remote clock offset: 0.345 ms

# Below is generated by plot.py at 2018-01-16 17:58:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.81 Mbit/s

95th percentile per-packet one-way delay: 122.821 ms

Loss rate: 45.93%

-- Flow 1:

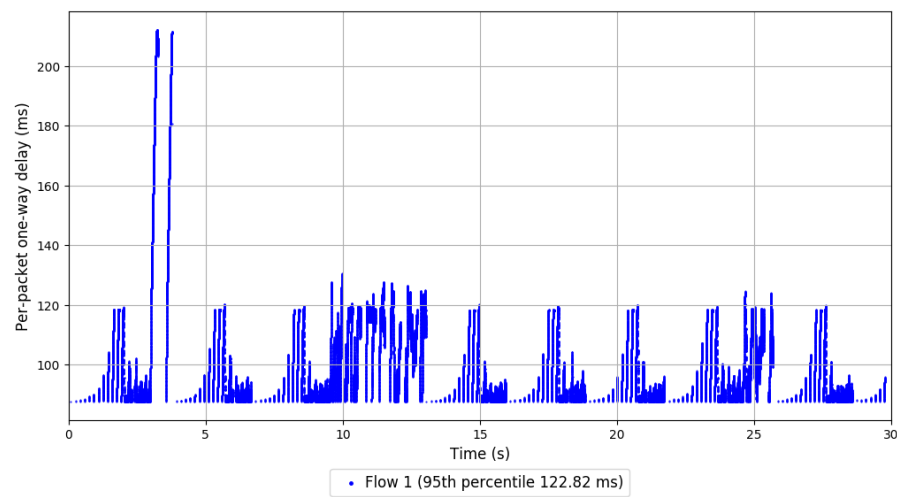
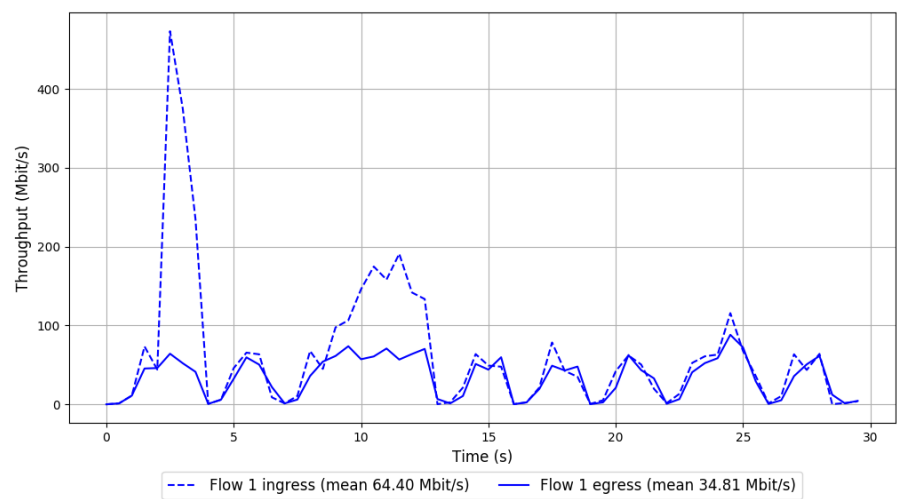
Average throughput: 34.81 Mbit/s

95th percentile per-packet one-way delay: 122.821 ms

Loss rate: 45.93%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-16 15:43:51

End at: 2018-01-16 15:44:21

Local clock offset: 1.149 ms

Remote clock offset: 0.627 ms

# Below is generated by plot.py at 2018-01-16 17:58:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 117.277 ms

Loss rate: 10.46%

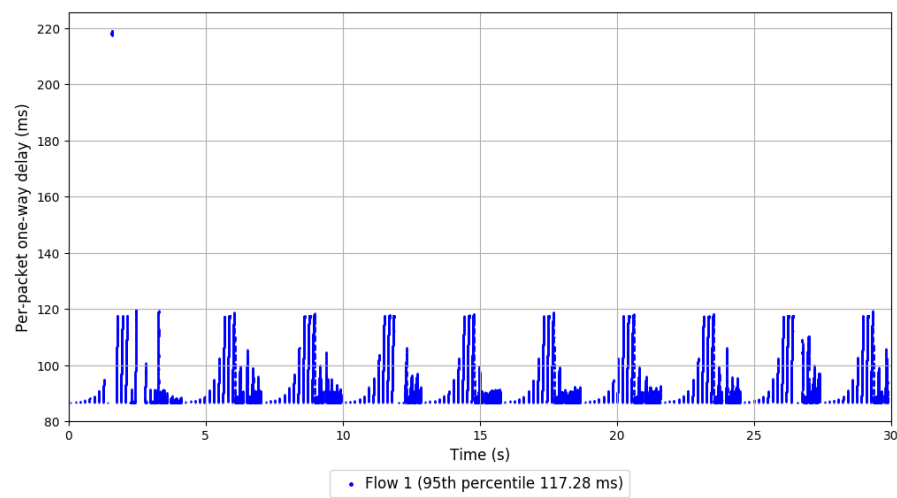
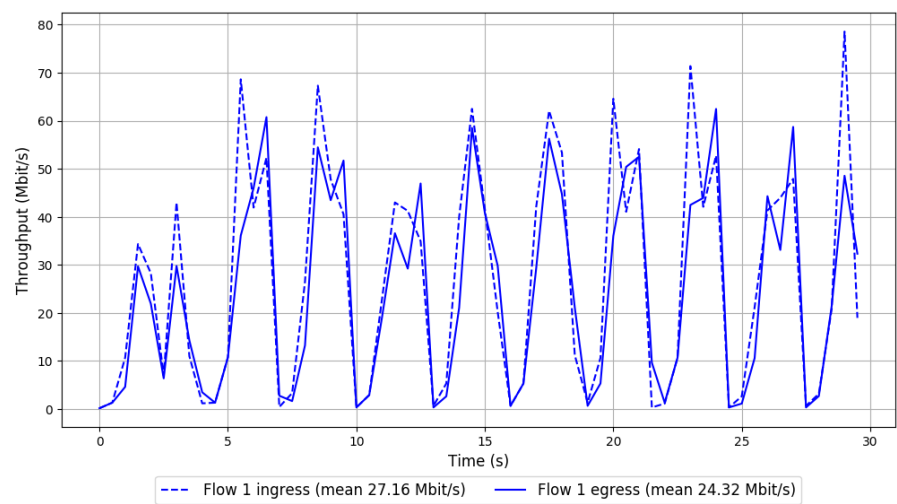
-- Flow 1:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 117.277 ms

Loss rate: 10.46%

Run 6: Report of Verus — Data Link

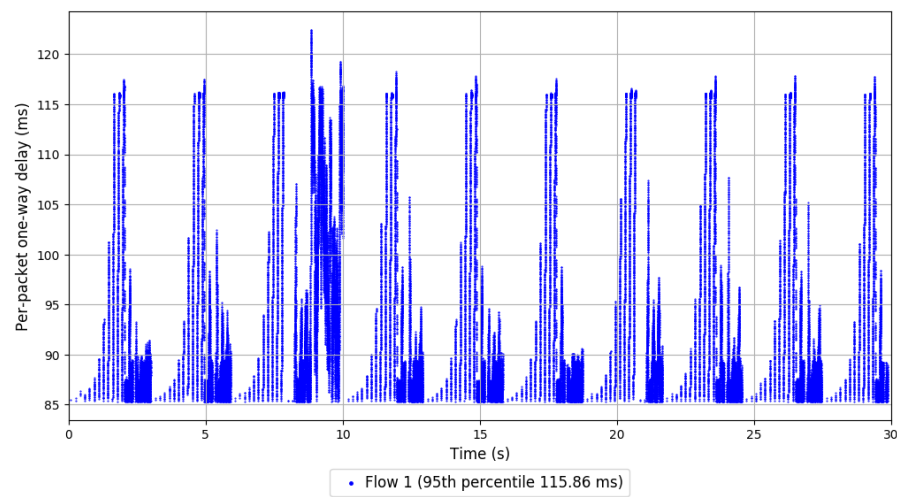
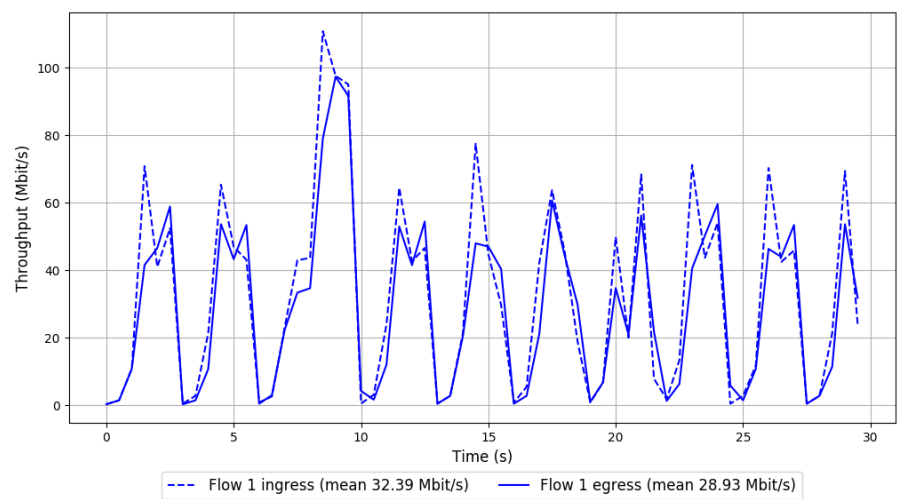


Run 7: Statistics of Verus

Start at: 2018-01-16 16:05:37  
End at: 2018-01-16 16:06:07  
Local clock offset: 1.061 ms  
Remote clock offset: -0.727 ms

# Below is generated by plot.py at 2018-01-16 17:58:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 28.93 Mbit/s  
95th percentile per-packet one-way delay: 115.858 ms  
Loss rate: 10.70%  
-- Flow 1:  
Average throughput: 28.93 Mbit/s  
95th percentile per-packet one-way delay: 115.858 ms  
Loss rate: 10.70%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-16 16:27:25

End at: 2018-01-16 16:27:55

Local clock offset: 1.121 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-01-16 17:58:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 174.918 ms

Loss rate: 66.16%

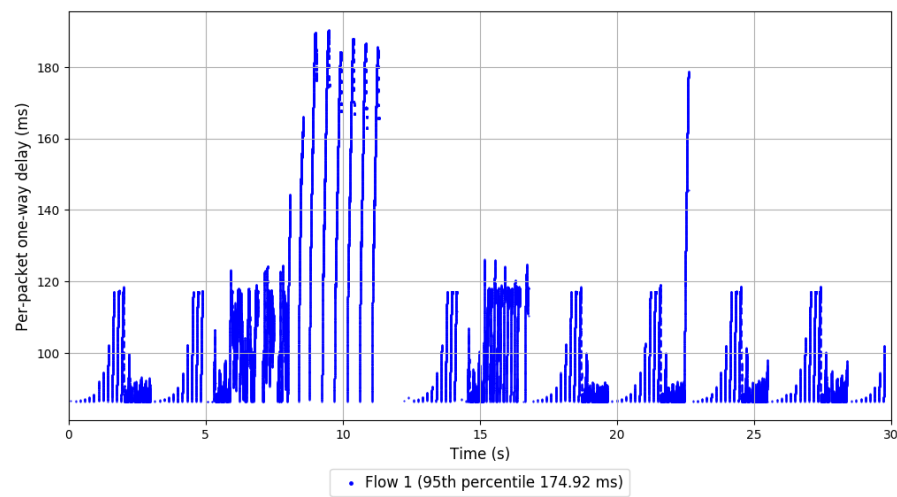
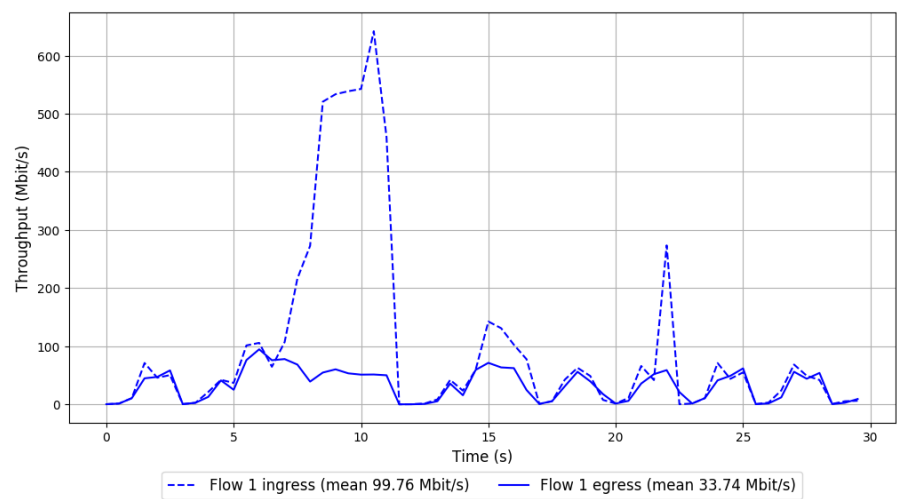
-- Flow 1:

Average throughput: 33.74 Mbit/s

95th percentile per-packet one-way delay: 174.918 ms

Loss rate: 66.16%

Run 8: Report of Verus — Data Link



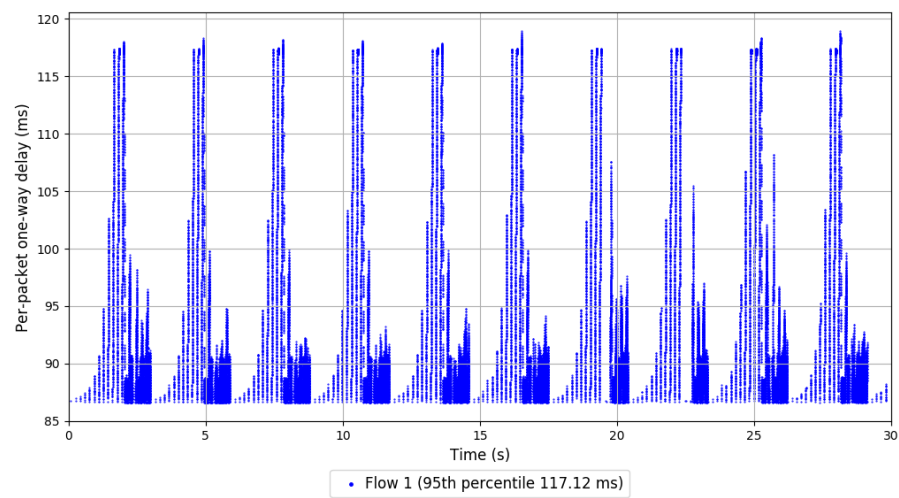
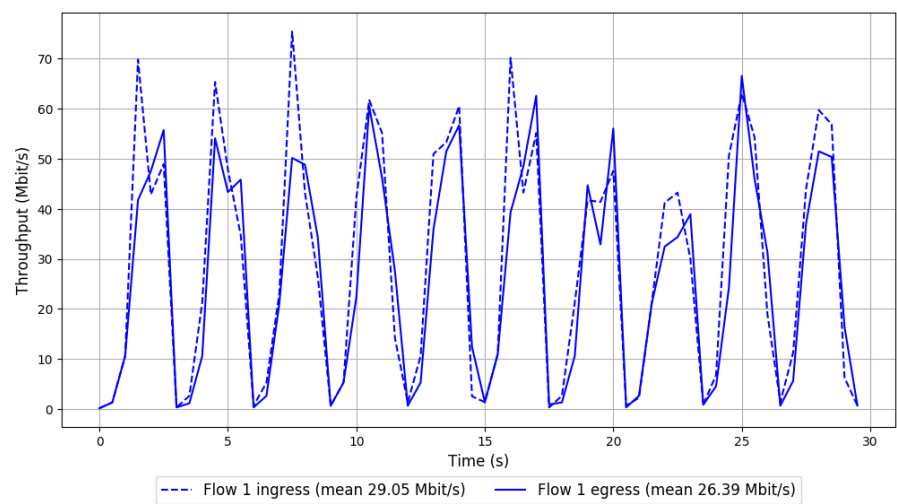
Run 9: Statistics of Verus

Start at: 2018-01-16 16:49:23  
End at: 2018-01-16 16:49:53  
Local clock offset: 1.106 ms  
Remote clock offset: -1.544 ms

# Below is generated by plot.py at 2018-01-16 17:58:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 26.39 Mbit/s  
95th percentile per-packet one-way delay: 117.116 ms  
Loss rate: 9.14%  
-- Flow 1:  
Average throughput: 26.39 Mbit/s  
95th percentile per-packet one-way delay: 117.116 ms  
Loss rate: 9.14%



Run 9: Report of Verus — Data Link

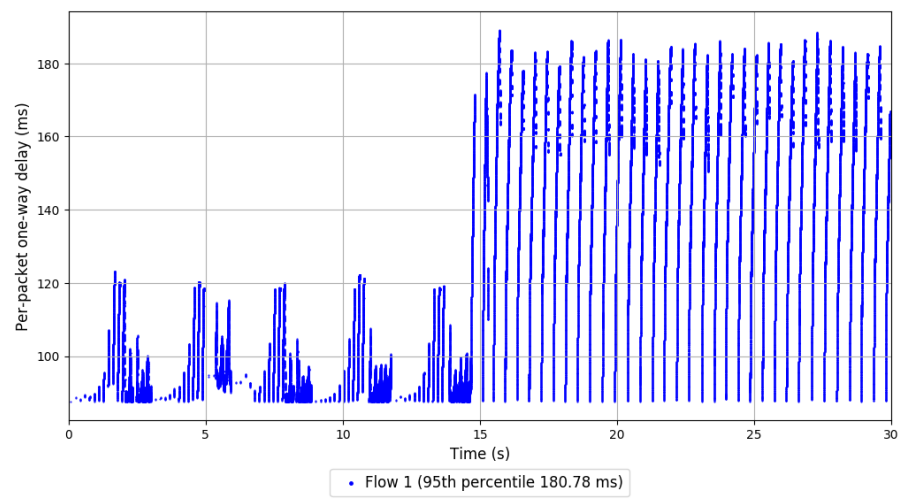
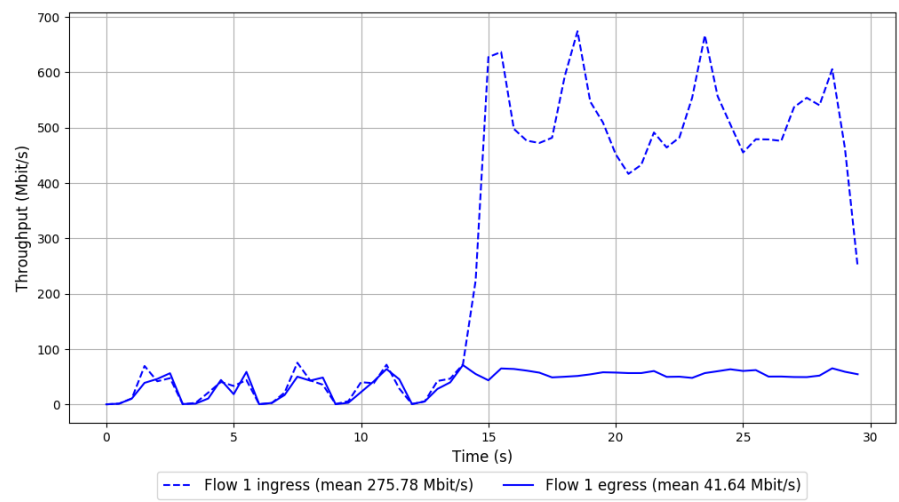


Run 10: Statistics of Verus

Start at: 2018-01-16 17:11:17  
End at: 2018-01-16 17:11:47  
Local clock offset: 1.094 ms  
Remote clock offset: -1.575 ms

# Below is generated by plot.py at 2018-01-16 17:58:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 41.64 Mbit/s  
95th percentile per-packet one-way delay: 180.783 ms  
Loss rate: 84.86%  
-- Flow 1:  
Average throughput: 41.64 Mbit/s  
95th percentile per-packet one-way delay: 180.783 ms  
Loss rate: 84.86%

Run 10: Report of Verus — Data Link

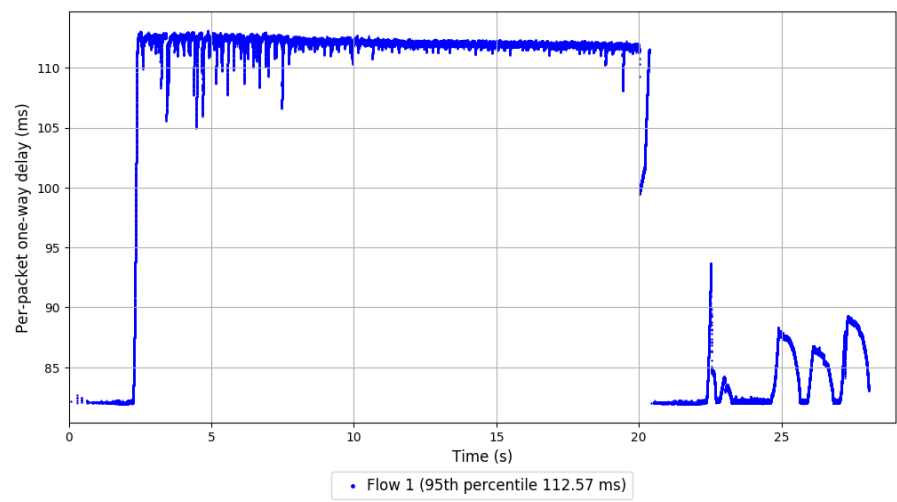
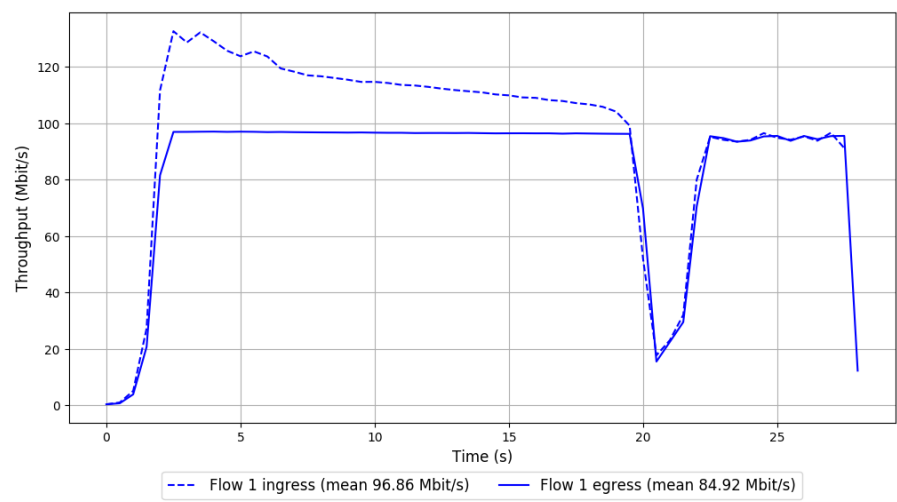


Run 1: Statistics of Copa

Start at: 2018-01-16 13:54:53  
End at: 2018-01-16 13:55:23  
Local clock offset: 0.264 ms  
Remote clock offset: -4.938 ms

# Below is generated by plot.py at 2018-01-16 17:59:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.92 Mbit/s  
95th percentile per-packet one-way delay: 112.567 ms  
Loss rate: 12.33%  
-- Flow 1:  
Average throughput: 84.92 Mbit/s  
95th percentile per-packet one-way delay: 112.567 ms  
Loss rate: 12.33%

Run 1: Report of Copa — Data Link

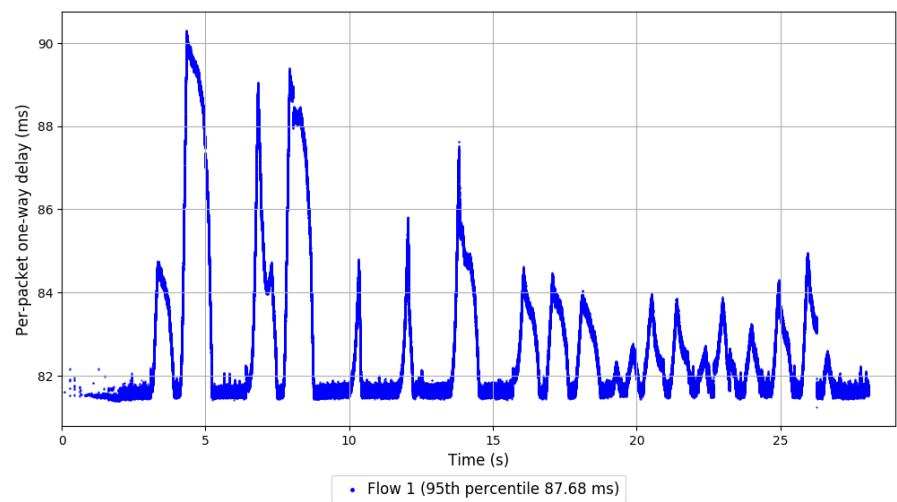
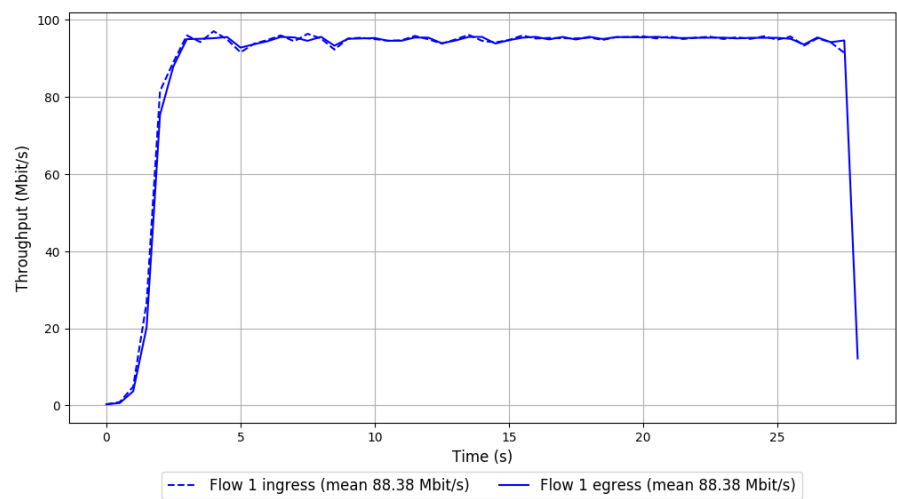


Run 2: Statistics of Copa

Start at: 2018-01-16 14:16:49  
End at: 2018-01-16 14:17:19  
Local clock offset: 0.62 ms  
Remote clock offset: -3.876 ms

# Below is generated by plot.py at 2018-01-16 17:59:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.38 Mbit/s  
95th percentile per-packet one-way delay: 87.681 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 88.38 Mbit/s  
95th percentile per-packet one-way delay: 87.681 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



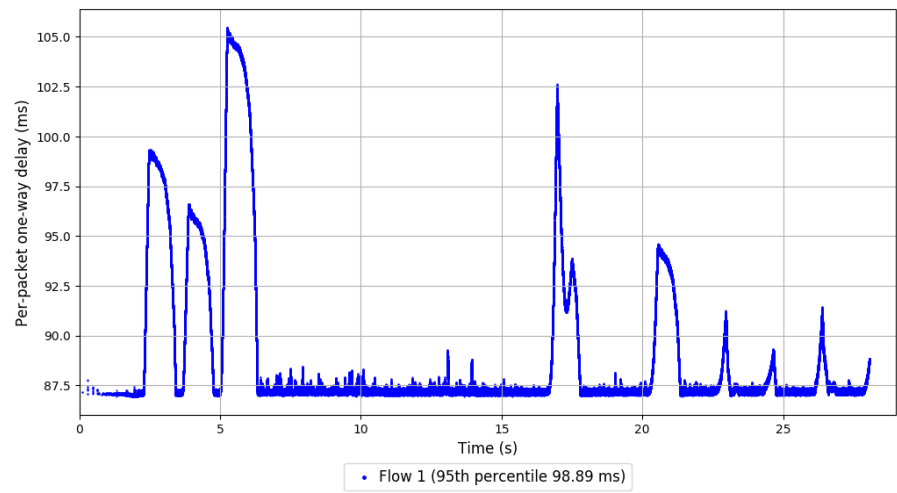
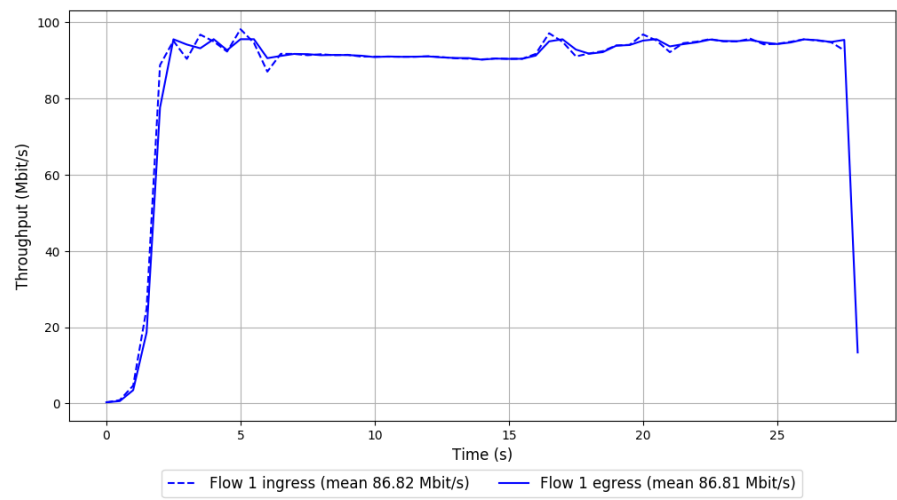
Run 3: Statistics of Copa

Start at: 2018-01-16 14:38:42  
End at: 2018-01-16 14:39:12  
Local clock offset: 0.966 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-01-16 17:59:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.81 Mbit/s  
95th percentile per-packet one-way delay: 98.891 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 86.81 Mbit/s  
95th percentile per-packet one-way delay: 98.891 ms  
Loss rate: 0.01%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 15:00:31

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

Local clock offset: 1.13 ms

Remote clock offset: -5.01 ms

# Below is generated by plot.py at 2018-01-16 17:59:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 111.053 ms

Loss rate: 17.77%

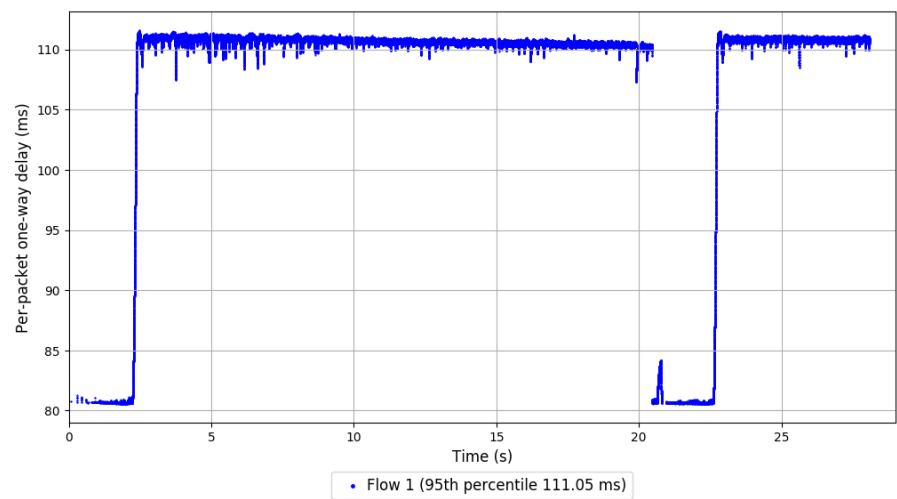
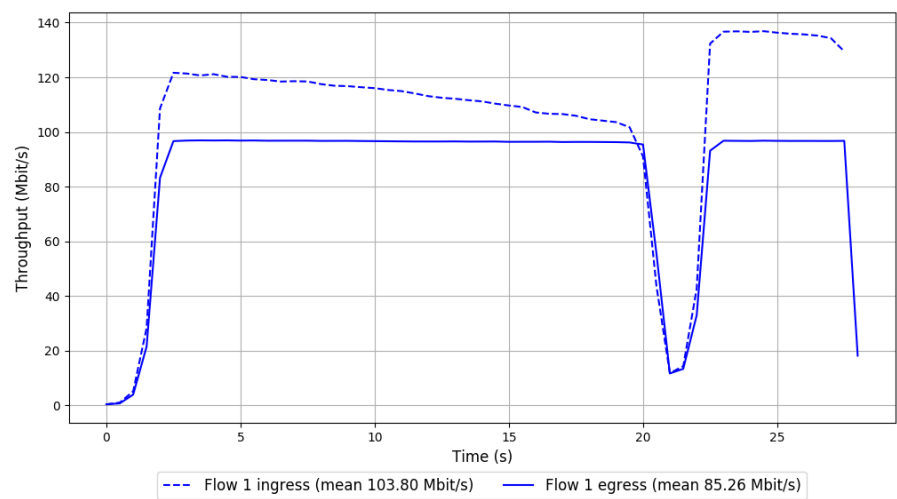
-- Flow 1:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 111.053 ms

Loss rate: 17.77%

Run 4: Report of Copa — Data Link

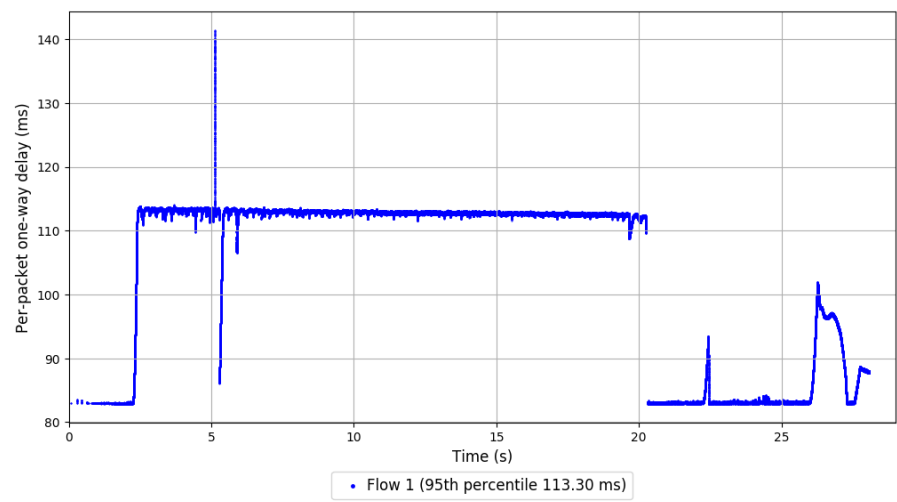
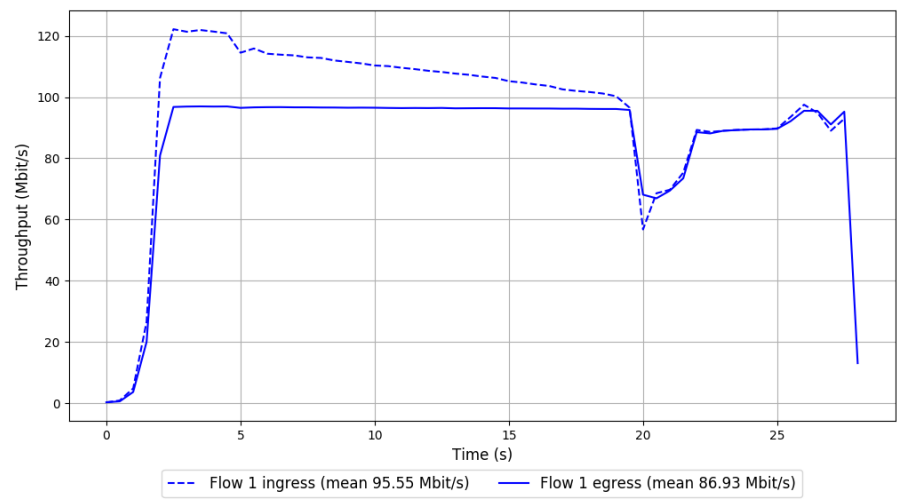


Run 5: Statistics of Copa

Start at: 2018-01-16 15:20:43  
End at: 2018-01-16 15:21:13  
Local clock offset: 1.189 ms  
Remote clock offset: -4.477 ms

# Below is generated by plot.py at 2018-01-16 18:00:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.93 Mbit/s  
95th percentile per-packet one-way delay: 113.301 ms  
Loss rate: 9.01%  
-- Flow 1:  
Average throughput: 86.93 Mbit/s  
95th percentile per-packet one-way delay: 113.301 ms  
Loss rate: 9.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-16 15:42:35

End at: 2018-01-16 15:43:05

Local clock offset: 1.085 ms

Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2018-01-16 18:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 94.392 ms

Loss rate: 0.01%

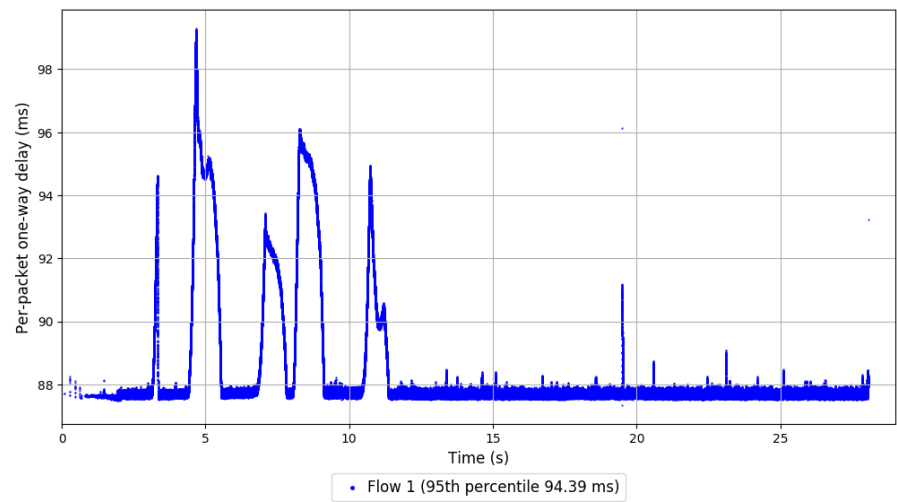
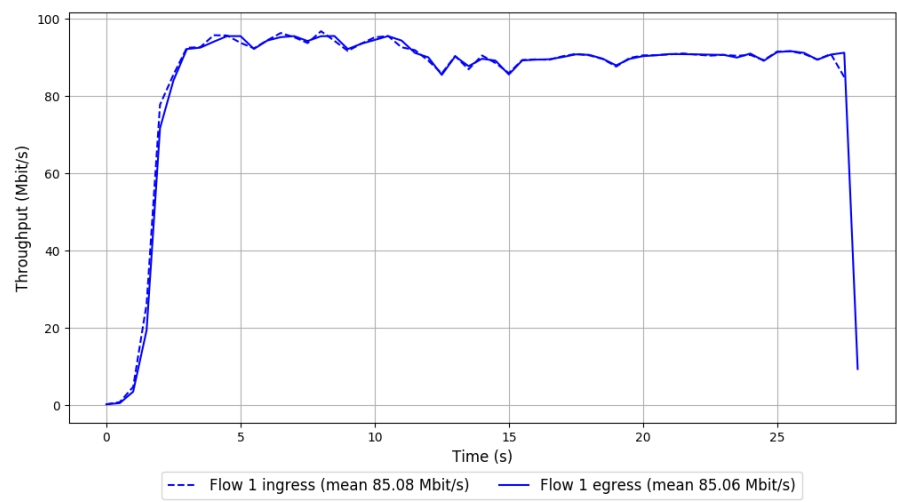
-- Flow 1:

Average throughput: 85.06 Mbit/s

95th percentile per-packet one-way delay: 94.392 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



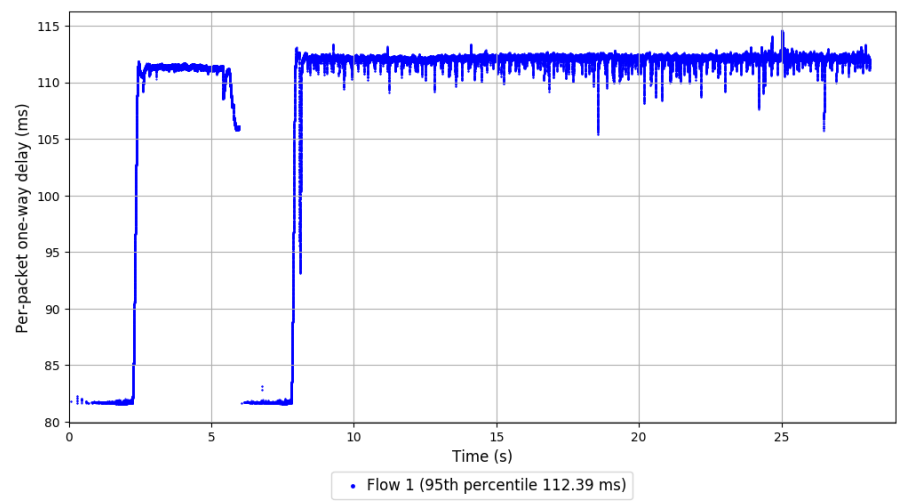
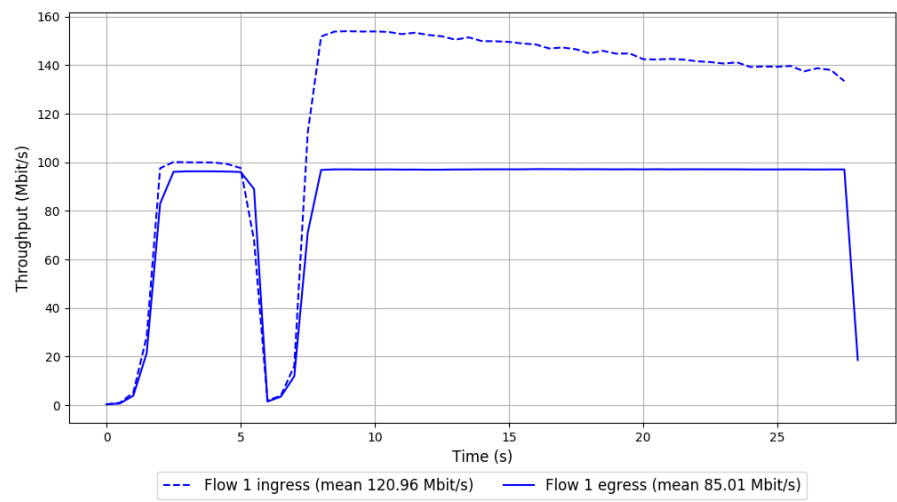
Run 7: Statistics of Copa

Start at: 2018-01-16 16:04:21  
End at: 2018-01-16 16:04:51  
Local clock offset: 1.043 ms  
Remote clock offset: -4.288 ms

# Below is generated by plot.py at 2018-01-16 18:00:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.01 Mbit/s  
95th percentile per-packet one-way delay: 112.388 ms  
Loss rate: 29.65%  
-- Flow 1:  
Average throughput: 85.01 Mbit/s  
95th percentile per-packet one-way delay: 112.388 ms  
Loss rate: 29.65%



Run 7: Report of Copa — Data Link

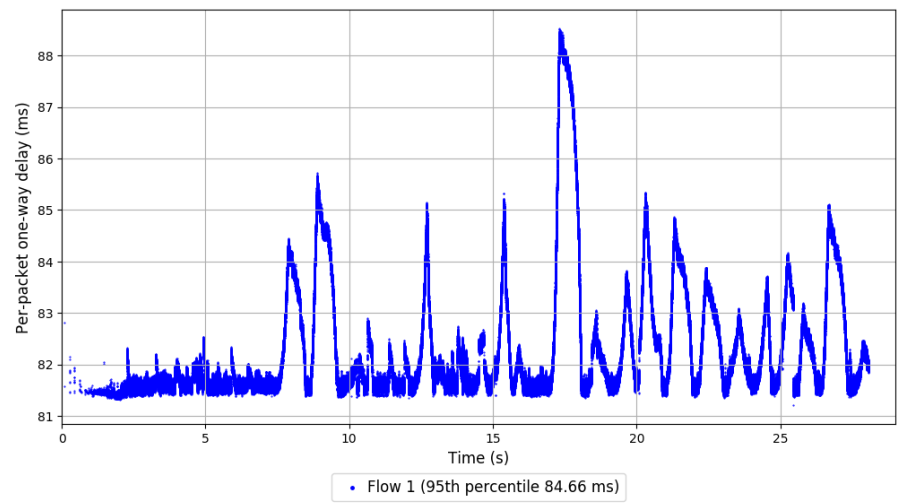
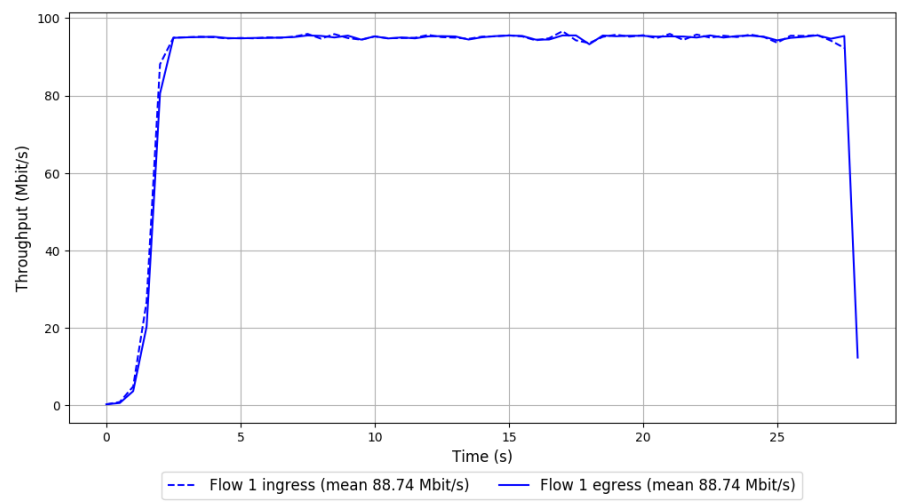


Run 8: Statistics of Copa

Start at: 2018-01-16 16:26:08  
End at: 2018-01-16 16:26:38  
Local clock offset: 1.11 ms  
Remote clock offset: -4.839 ms

# Below is generated by plot.py at 2018-01-16 18:01:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.74 Mbit/s  
95th percentile per-packet one-way delay: 84.655 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 88.74 Mbit/s  
95th percentile per-packet one-way delay: 84.655 ms  
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

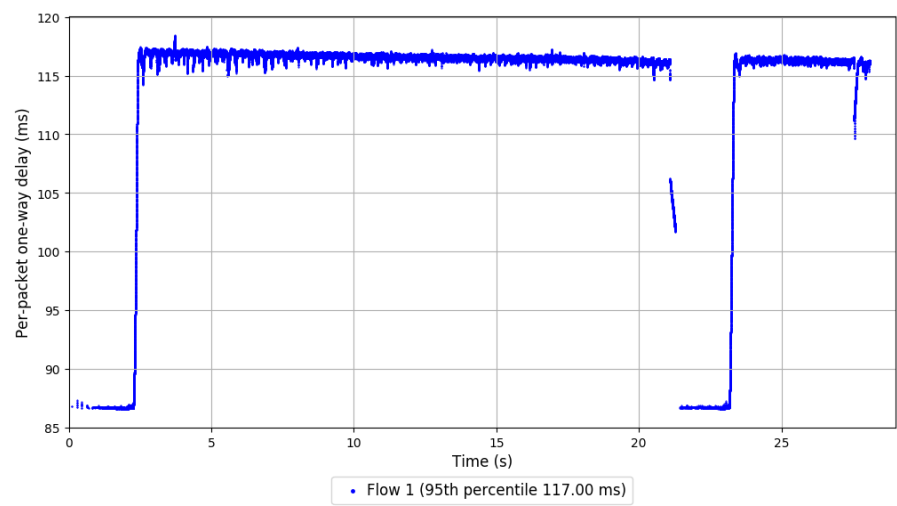
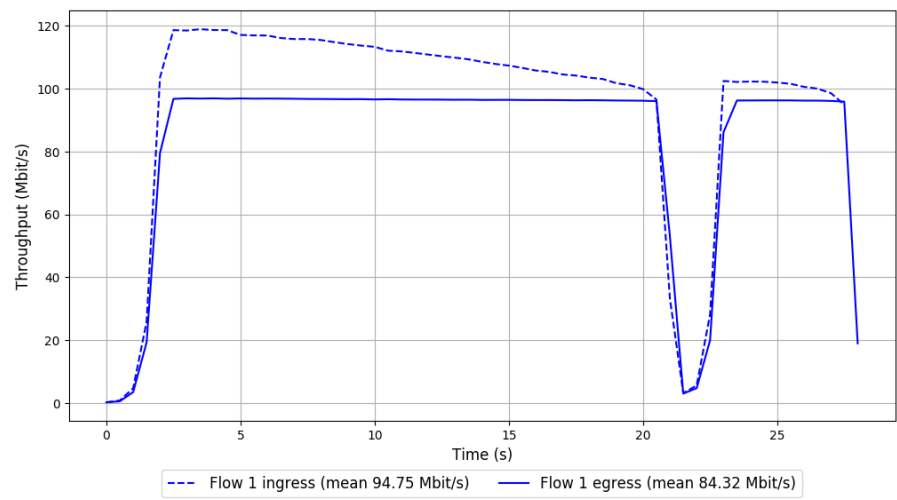


Run 9: Statistics of Copa

Start at: 2018-01-16 16:48:07  
End at: 2018-01-16 16:48:37  
Local clock offset: 1.072 ms  
Remote clock offset: -1.468 ms

# Below is generated by plot.py at 2018-01-16 18:01:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.32 Mbit/s  
95th percentile per-packet one-way delay: 116.996 ms  
Loss rate: 10.92%  
-- Flow 1:  
Average throughput: 84.32 Mbit/s  
95th percentile per-packet one-way delay: 116.996 ms  
Loss rate: 10.92%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-16 17:10:00

End at: 2018-01-16 17:10:30

Local clock offset: 1.089 ms

Remote clock offset: -0.667 ms

# Below is generated by plot.py at 2018-01-16 18:01:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 90.249 ms

Loss rate: 0.01%

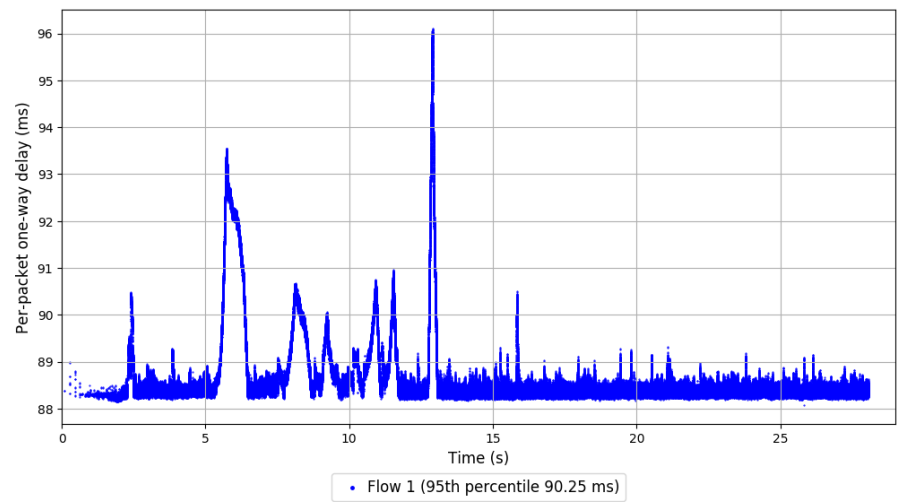
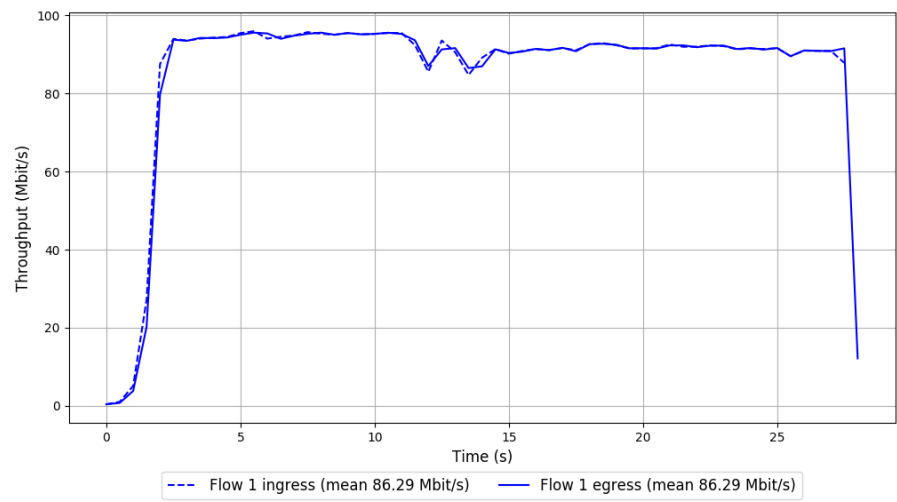
-- Flow 1:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 90.249 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-16 13:51:14

End at: 2018-01-16 13:51:44

Local clock offset: 0.149 ms

Remote clock offset: -3.96 ms



Run 1: Report of FillP — Data Link

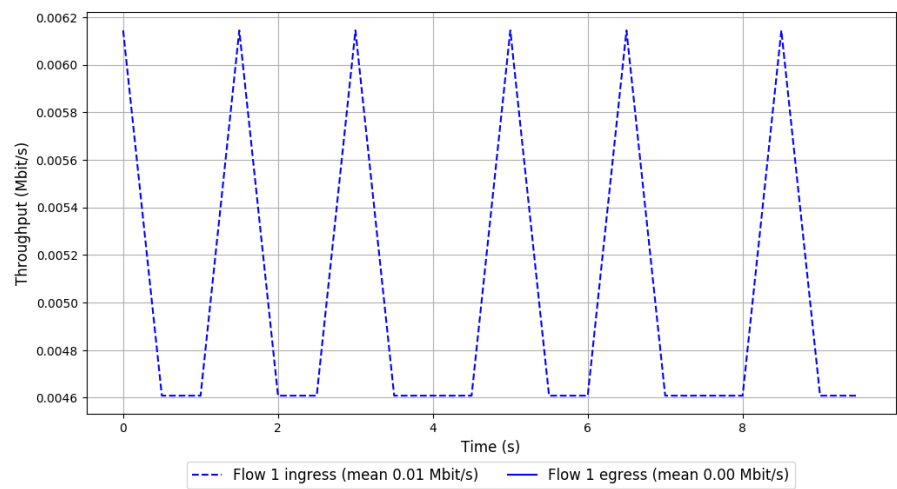


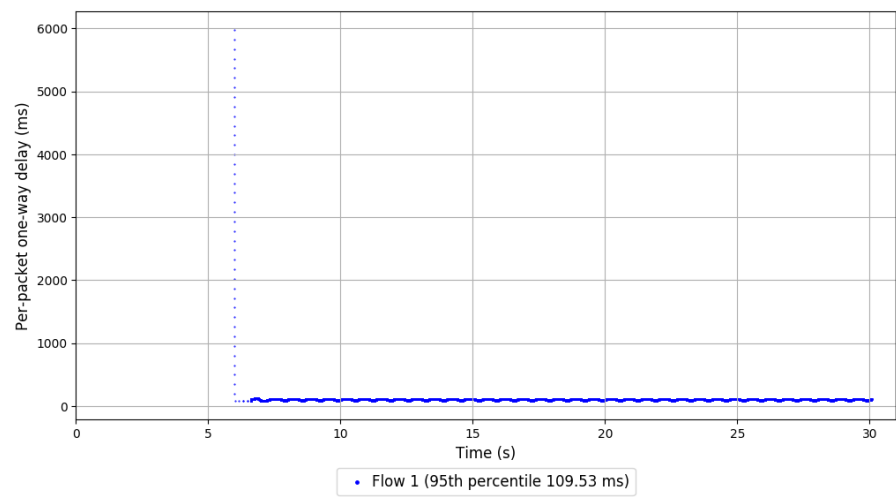
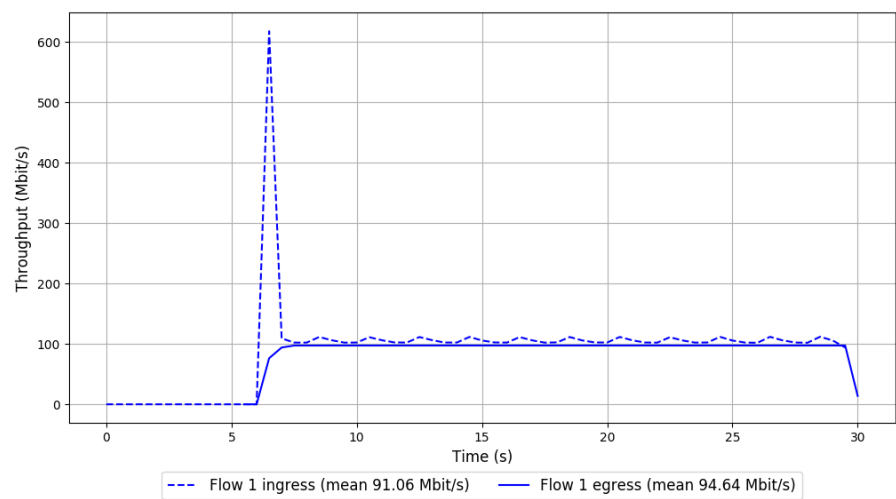
Figure is missing

Run 2: Statistics of FillP

Start at: 2018-01-16 14:13:06  
End at: 2018-01-16 14:13:36  
Local clock offset: 0.501 ms  
Remote clock offset: -4.701 ms

# Below is generated by plot.py at 2018-01-16 18:01:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.64 Mbit/s  
95th percentile per-packet one-way delay: 109.530 ms  
Loss rate: 16.42%  
-- Flow 1:  
Average throughput: 94.64 Mbit/s  
95th percentile per-packet one-way delay: 109.530 ms  
Loss rate: 16.42%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

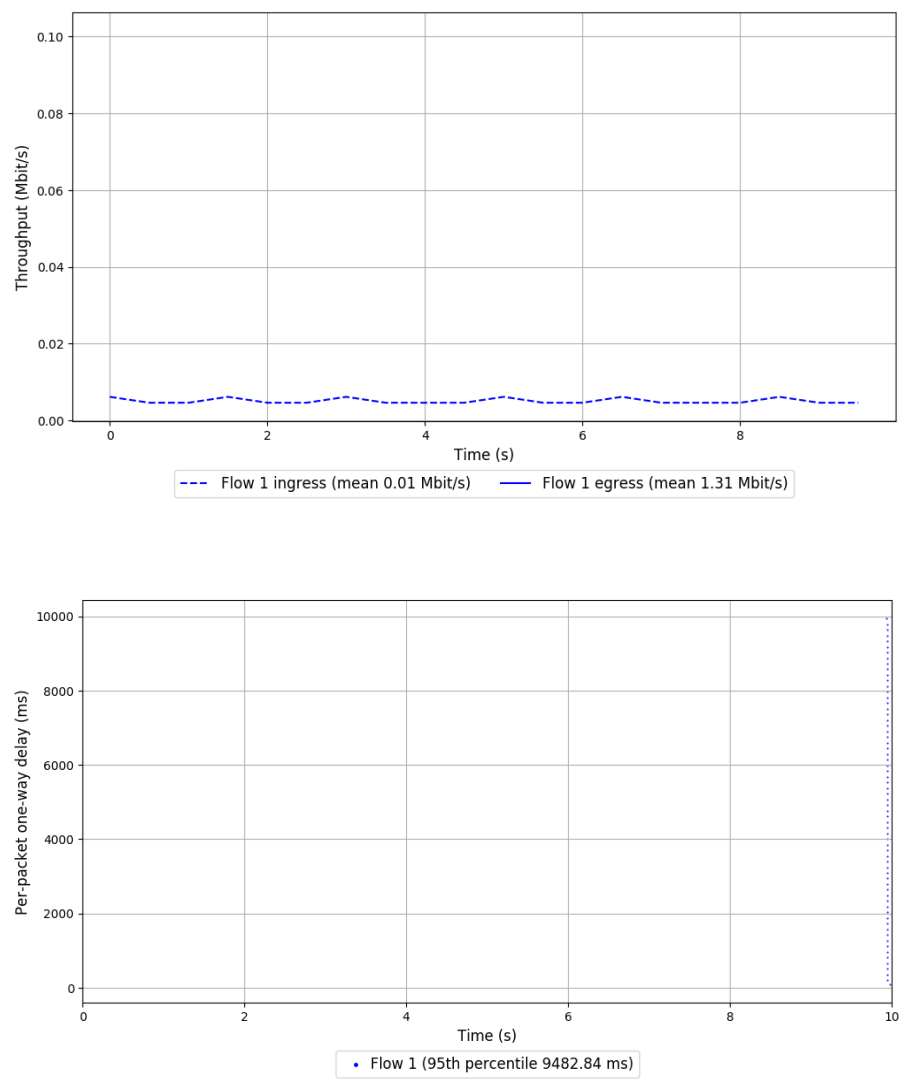
Start at: 2018-01-16 14:35:03

End at: 2018-01-16 14:35:33

Local clock offset: 0.889 ms

Remote clock offset: 0.823 ms

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 14:56:48

End at: 2018-01-16 14:57:18

Local clock offset: 1.113 ms

Remote clock offset: 0.777 ms

# Below is generated by plot.py at 2018-01-16 18:01:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 116.979 ms

Loss rate: 14.94%

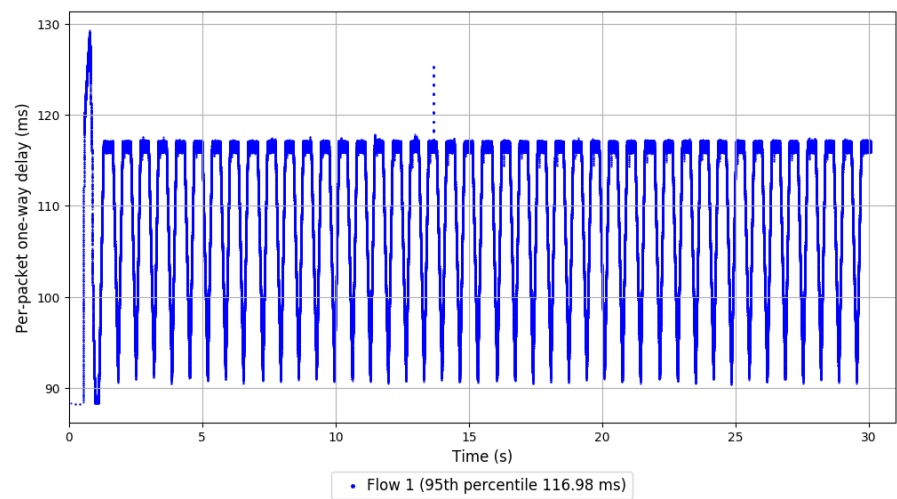
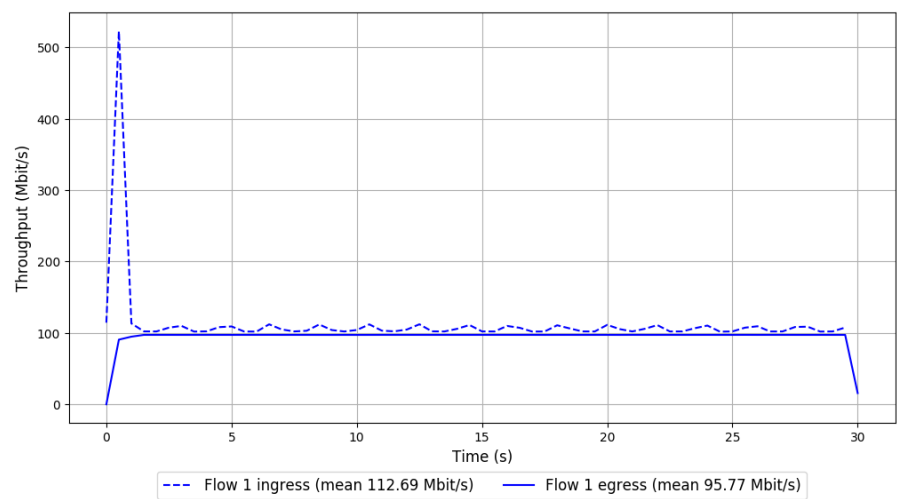
-- Flow 1:

Average throughput: 95.77 Mbit/s

95th percentile per-packet one-way delay: 116.979 ms

Loss rate: 14.94%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 15:17:04

End at: 2018-01-16 15:17:34

Local clock offset: 1.152 ms

Remote clock offset: -4.367 ms



Run 5: Report of FillP — Data Link

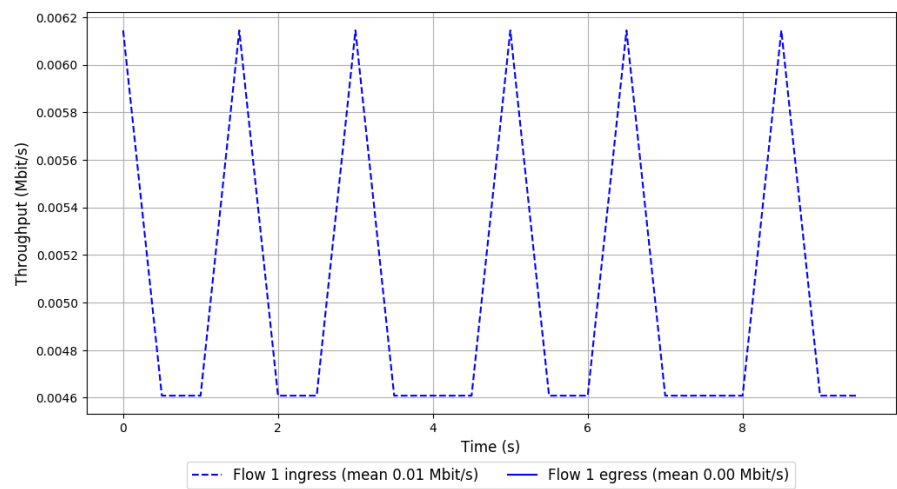


Figure is missing

Run 6: Statistics of FillP

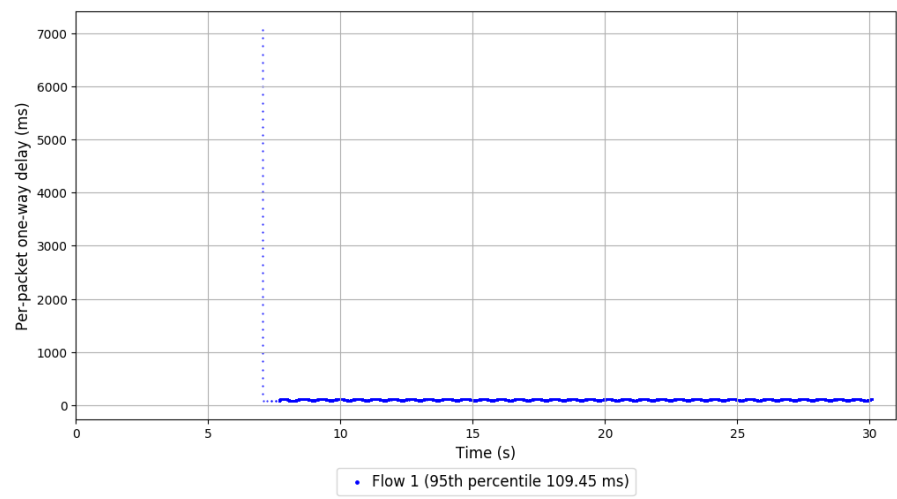
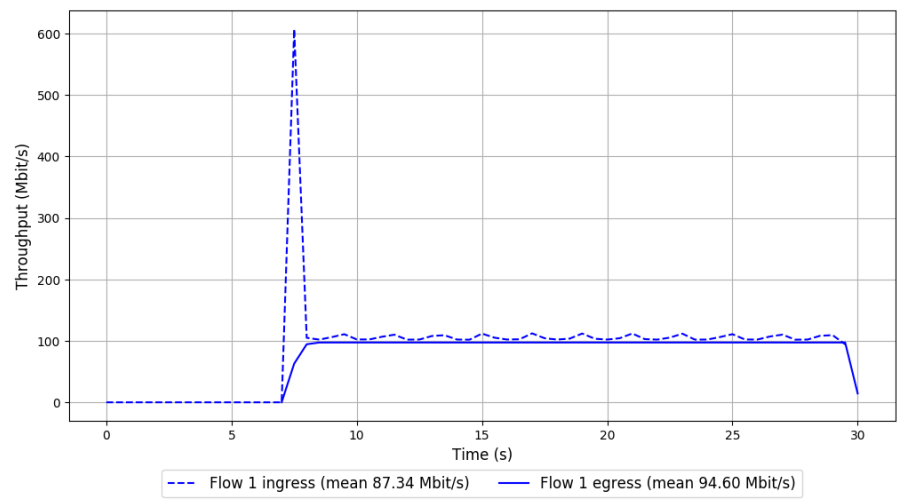
Start at: 2018-01-16 15:38:52

End at: 2018-01-16 15:39:22

Local clock offset: 1.16 ms

Remote clock offset: -5.019 ms

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

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

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

Local clock offset: 1.111 ms

Remote clock offset: -4.301 ms

Run 7: Report of FillP — Data Link

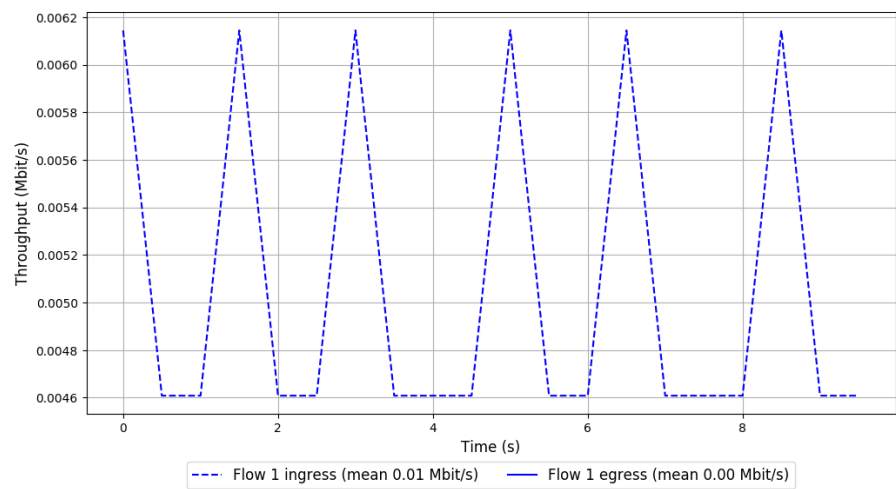


Figure is missing

Run 8: Statistics of FillP

Start at: 2018-01-16 16:22:29

End at: 2018-01-16 16:22:59

Local clock offset: 1.059 ms

Remote clock offset: 0.902 ms

Run 8: Report of FillP — Data Link

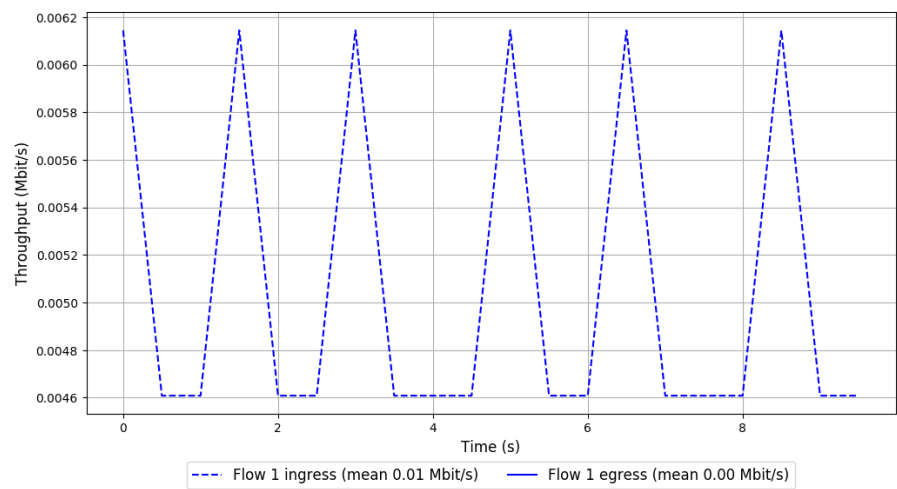


Figure is missing

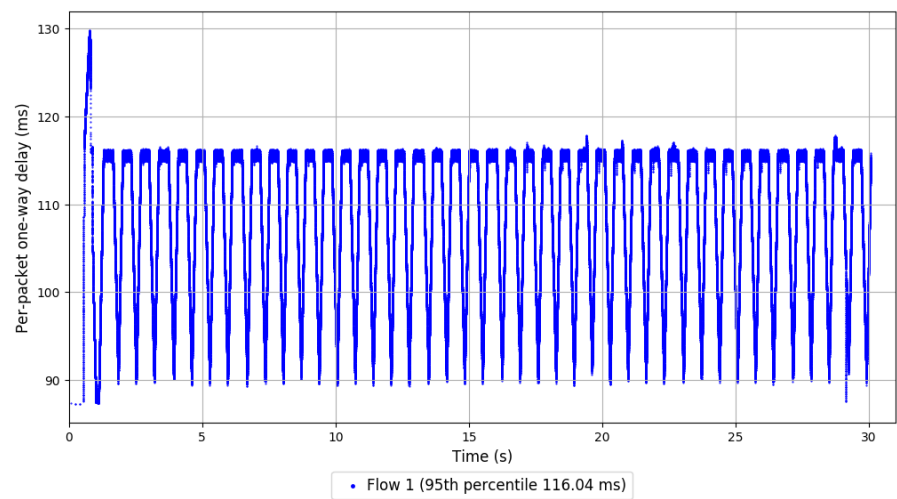
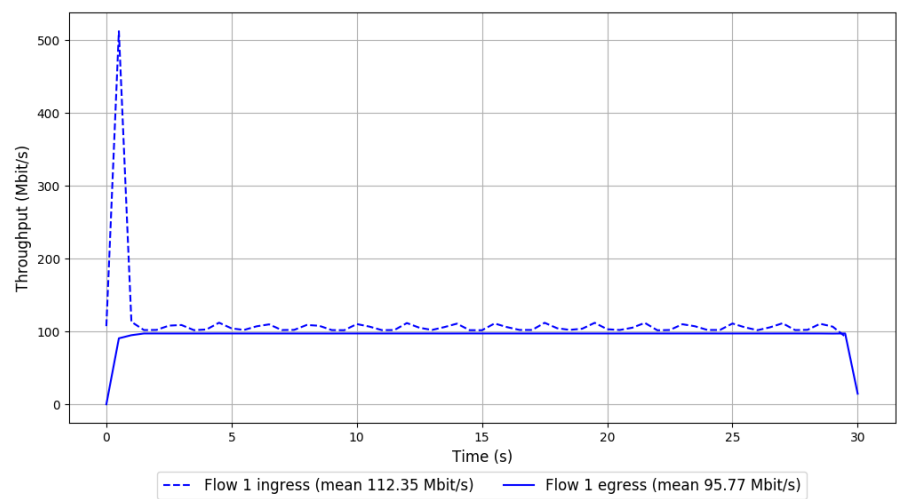
Run 9: Statistics of FillP

Start at: 2018-01-16 16:44:22  
End at: 2018-01-16 16:44:52  
Local clock offset: 1.128 ms  
Remote clock offset: -0.373 ms

# Below is generated by plot.py at 2018-01-16 18:01:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.77 Mbit/s  
95th percentile per-packet one-way delay: 116.038 ms  
Loss rate: 14.68%  
-- Flow 1:  
Average throughput: 95.77 Mbit/s  
95th percentile per-packet one-way delay: 116.038 ms  
Loss rate: 14.68%



Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

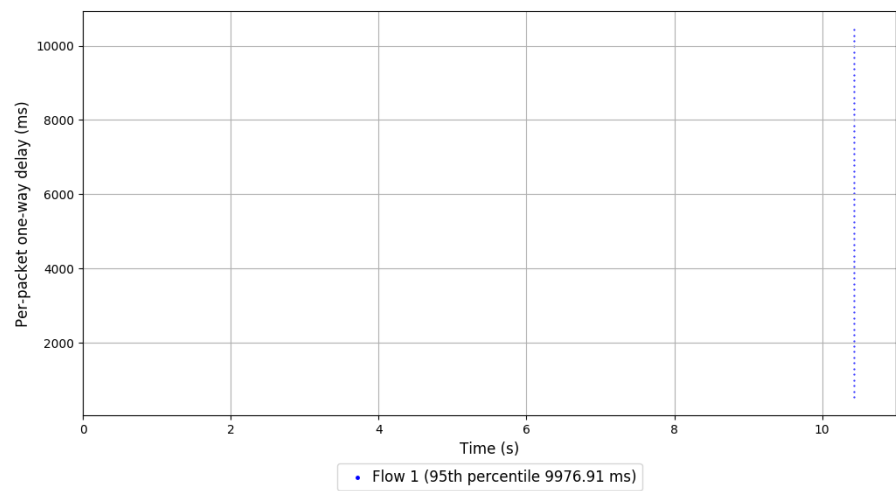
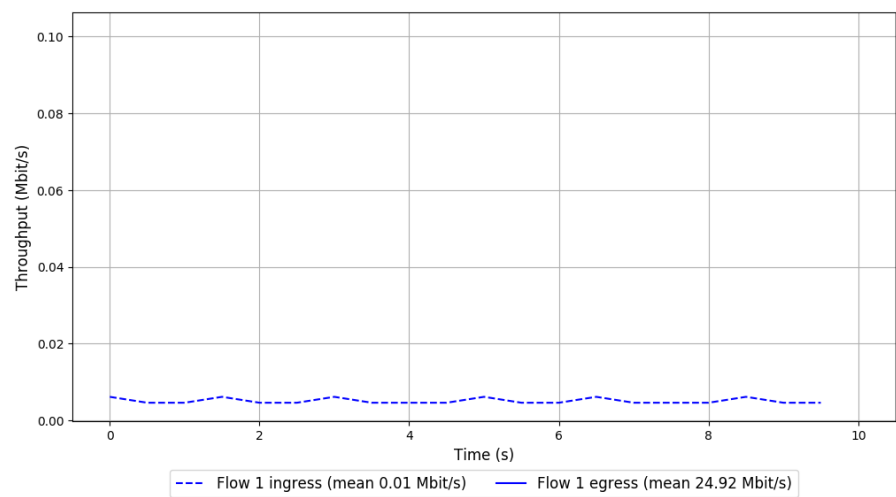
Start at: 2018-01-16 17:06:21

End at: 2018-01-16 17:06:51

Local clock offset: 1.102 ms

Remote clock offset: -6.967 ms

Run 10: Report of FillP — Data Link

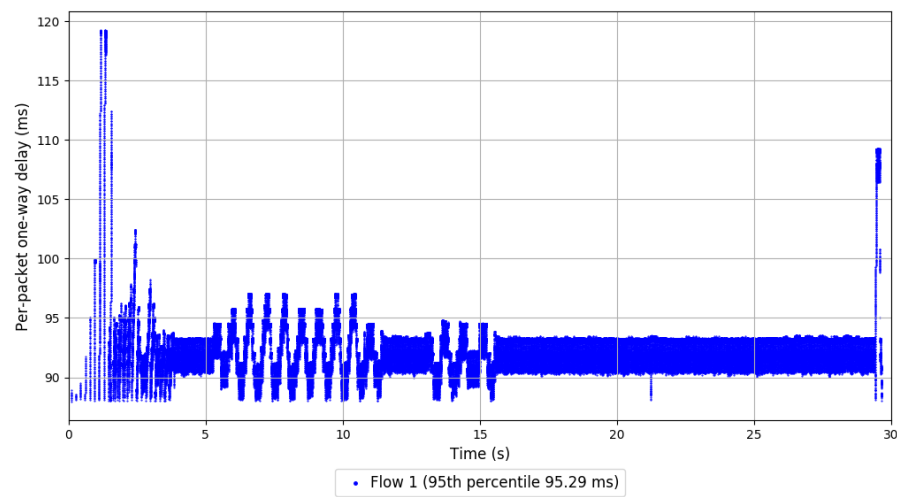
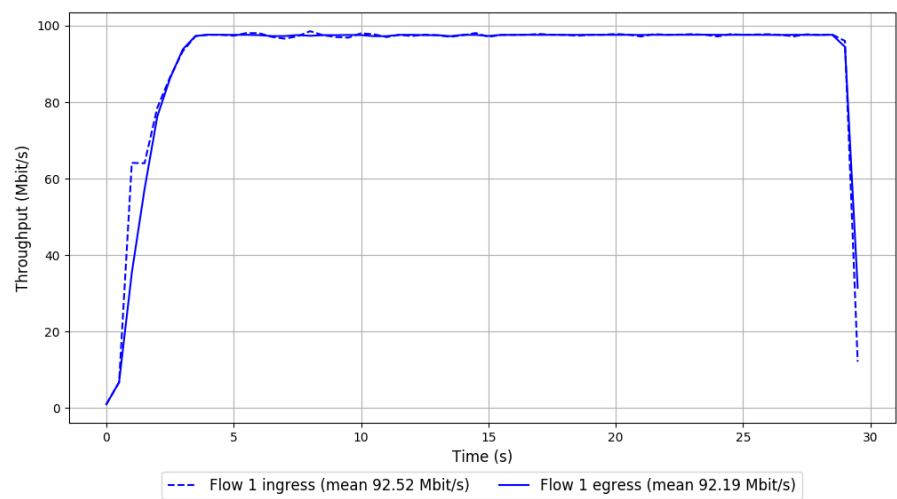


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 13:58:32
End at: 2018-01-16 13:59:02
Local clock offset: 0.265 ms
Remote clock offset: 1.57 ms

# Below is generated by plot.py at 2018-01-16 18:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 95.289 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 95.289 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo — Data Link

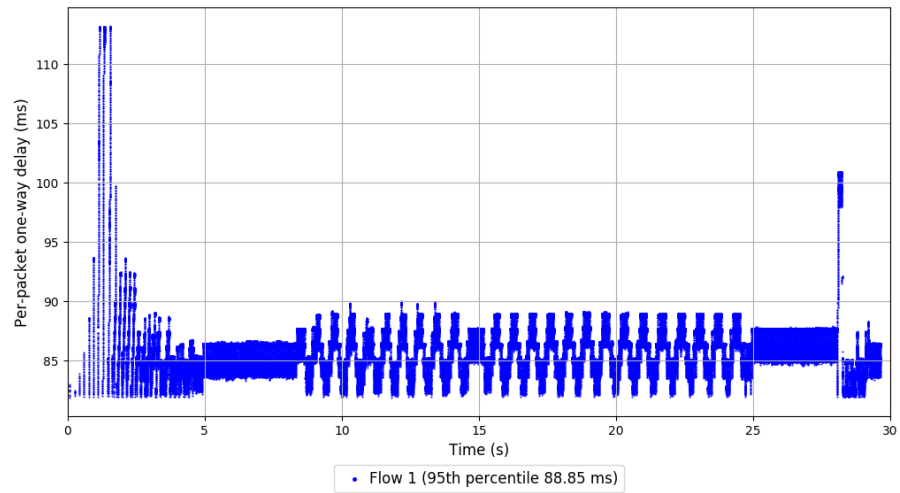
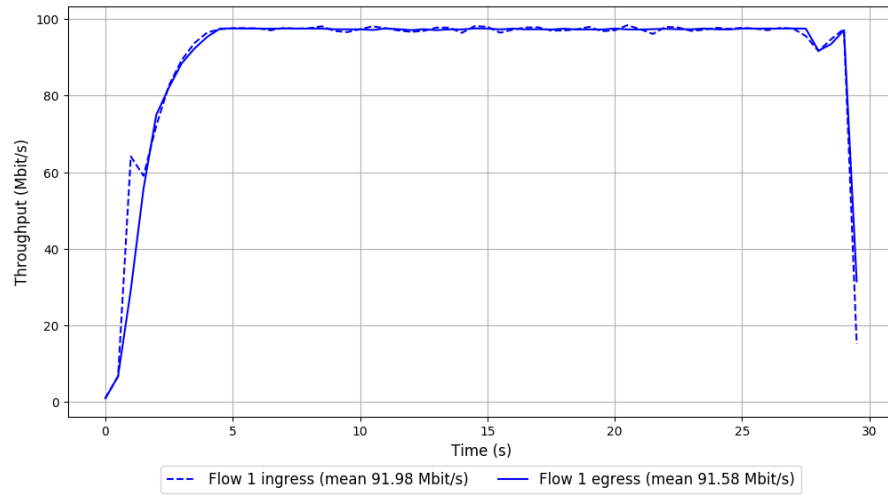


Run 2: Statistics of Indigo

Start at: 2018-01-16 14:20:29  
End at: 2018-01-16 14:20:59  
Local clock offset: 0.675 ms  
Remote clock offset: -3.925 ms

# Below is generated by plot.py at 2018-01-16 18:02:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.58 Mbit/s  
95th percentile per-packet one-way delay: 88.851 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 91.58 Mbit/s  
95th percentile per-packet one-way delay: 88.851 ms  
Loss rate: 0.42%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 14:42:22

End at: 2018-01-16 14:42:52

Local clock offset: 0.985 ms

Remote clock offset: 1.703 ms

# Below is generated by plot.py at 2018-01-16 18:02:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 95.714 ms

Loss rate: 0.42%

-- Flow 1:

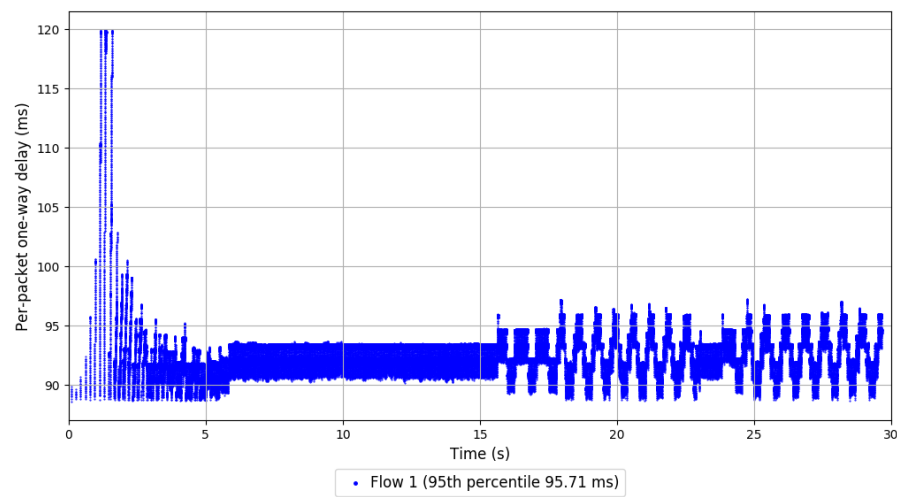
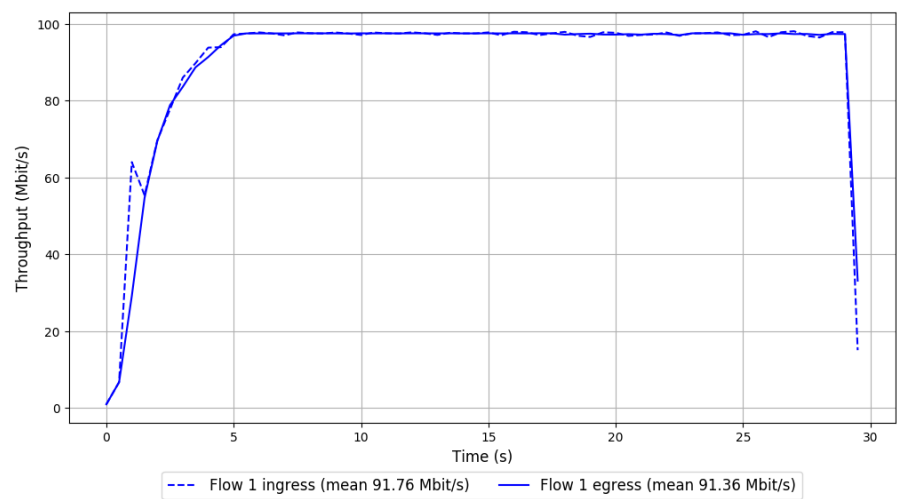
Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 95.714 ms

Loss rate: 0.42%



Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-16 15:03:45

End at: 2018-01-16 15:04:15

Local clock offset: 1.144 ms

# Below is generated by plot.py at 2018-01-16 18:02:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.19 Mbit/s

95th percentile per-packet one-way delay: 93.972 ms

Loss rate: 0.27%

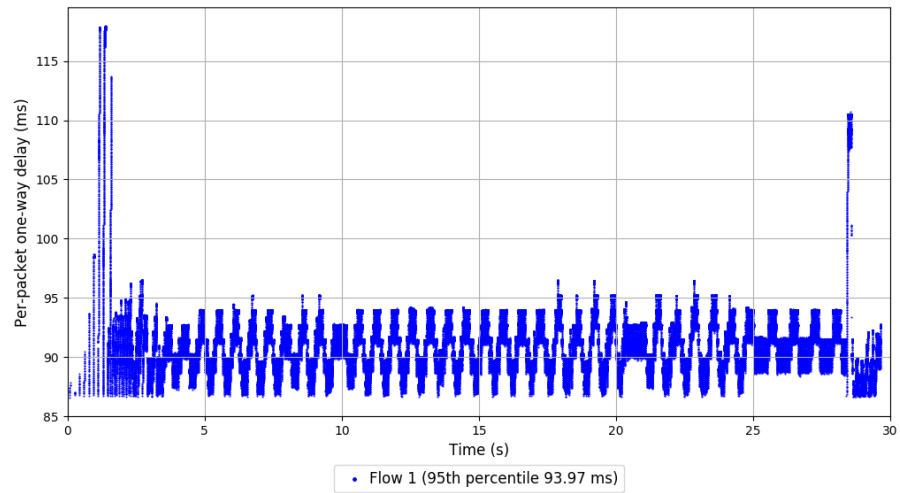
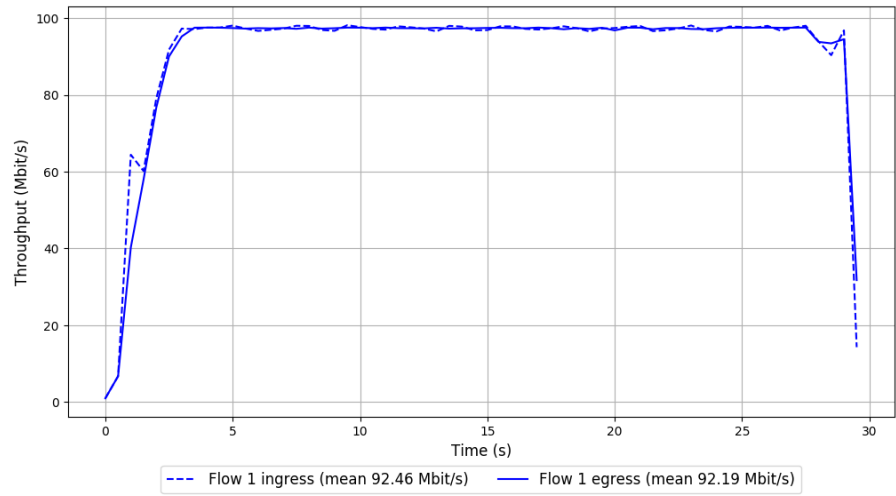
-- Flow 1:

Average throughput: 92.19 Mbit/s

95th percentile per-packet one-way delay: 93.972 ms

Loss rate: 0.27%

#### Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

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

End at: 2018-01-16 15:24:54

Local clock offset: 1.156 ms

Remote clock offset: -5.214 ms

# Below is generated by plot.py at 2018-01-16 18:02:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.95 Mbit/s

95th percentile per-packet one-way delay: 89.588 ms

Loss rate: 0.39%

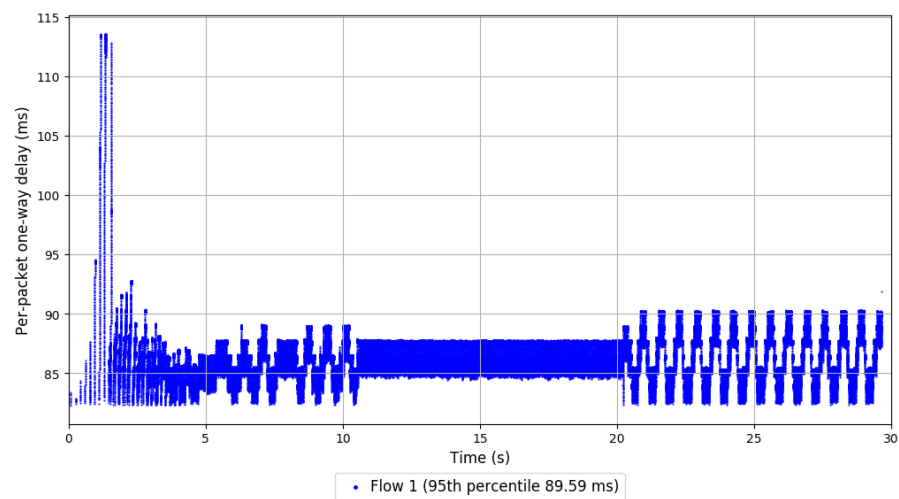
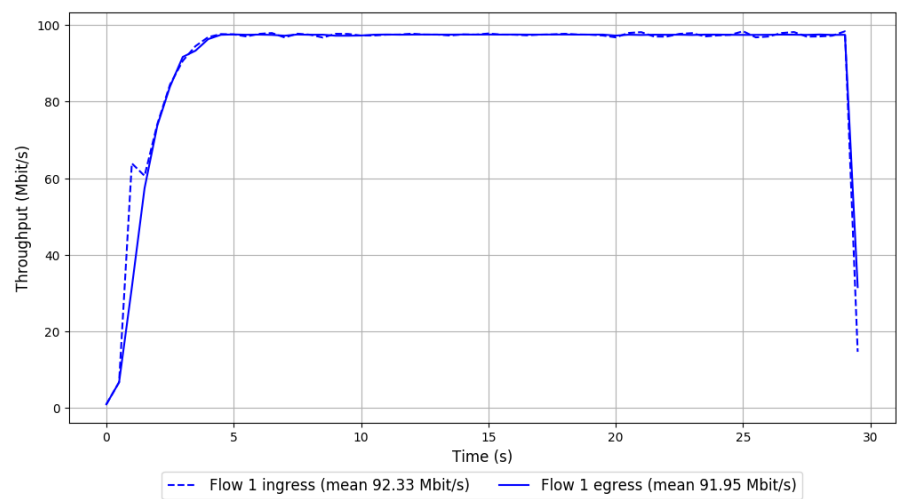
-- Flow 1:

Average throughput: 91.95 Mbit/s

95th percentile per-packet one-way delay: 89.588 ms

Loss rate: 0.39%

Run 5: Report of Indigo — Data Link

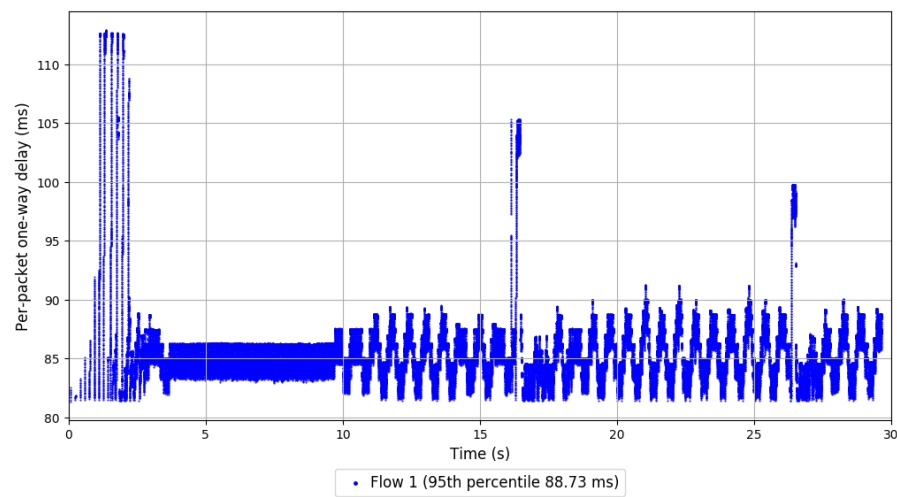
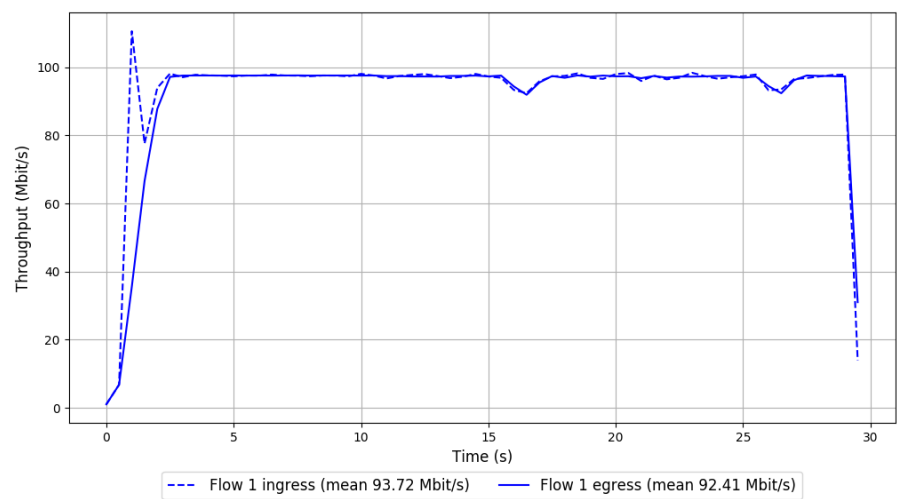


Run 6: Statistics of Indigo

Start at: 2018-01-16 15:46:15  
End at: 2018-01-16 15:46:45  
Local clock offset: 1.171 ms  
Remote clock offset: -4.266 ms

# Below is generated by plot.py at 2018-01-16 18:03:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.41 Mbit/s  
95th percentile per-packet one-way delay: 88.733 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 92.41 Mbit/s  
95th percentile per-packet one-way delay: 88.733 ms  
Loss rate: 1.38%

Run 6: Report of Indigo — Data Link



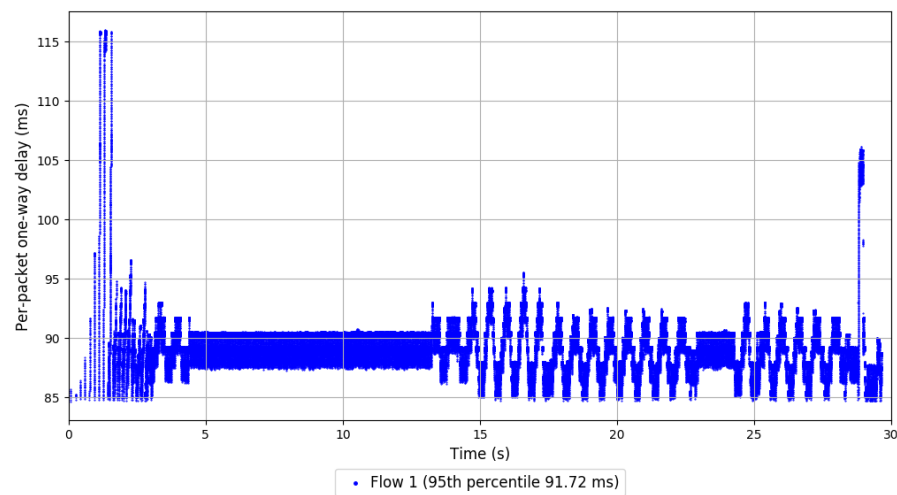
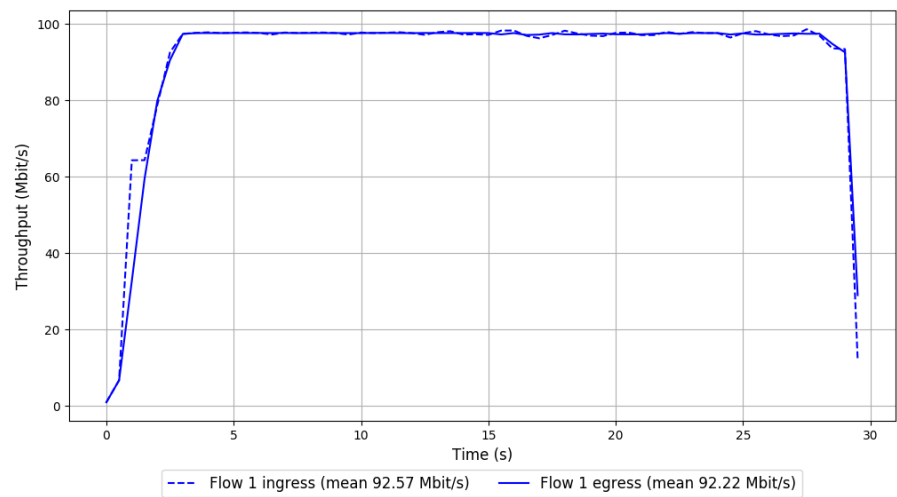
Run 7: Statistics of Indigo

Start at: 2018-01-16 16:08:01  
End at: 2018-01-16 16:08:31  
Local clock offset: 1.039 ms  
Remote clock offset: -0.771 ms

# Below is generated by plot.py at 2018-01-16 18:03:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.22 Mbit/s  
95th percentile per-packet one-way delay: 91.722 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 92.22 Mbit/s  
95th percentile per-packet one-way delay: 91.722 ms  
Loss rate: 0.37%



Run 7: Report of Indigo — Data Link

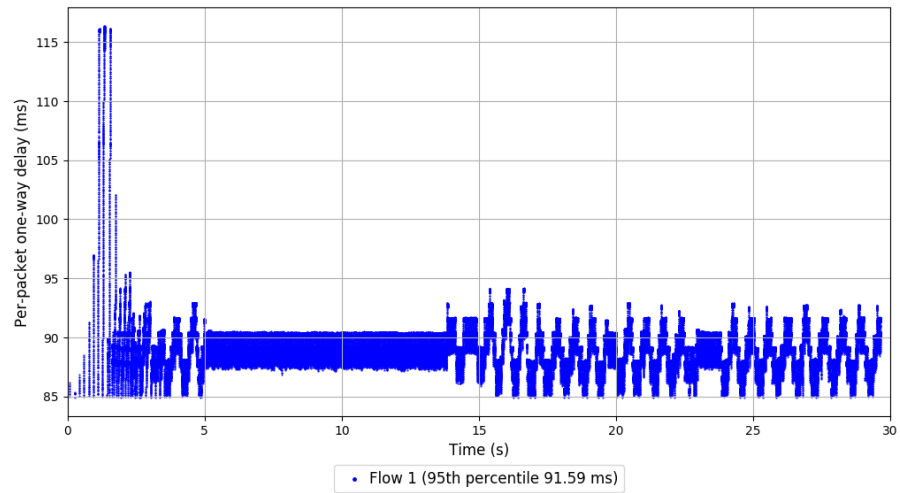
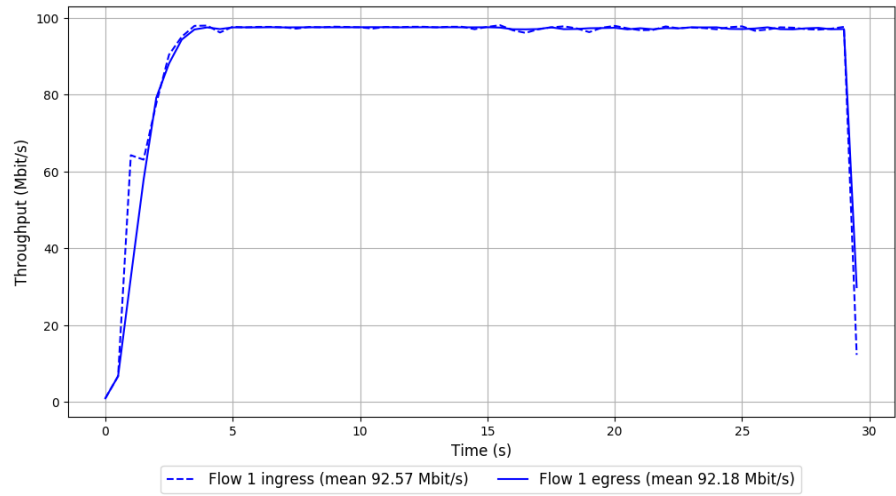


Run 8: Statistics of Indigo

Start at: 2018-01-16 16:29:49  
End at: 2018-01-16 16:30:19  
Local clock offset: 1.092 ms  
Remote clock offset: -0.961 ms

# Below is generated by plot.py at 2018-01-16 18:03:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.18 Mbit/s  
95th percentile per-packet one-way delay: 91.589 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 92.18 Mbit/s  
95th percentile per-packet one-way delay: 91.589 ms  
Loss rate: 0.40%

### Run 8: Report of Indigo — Data Link

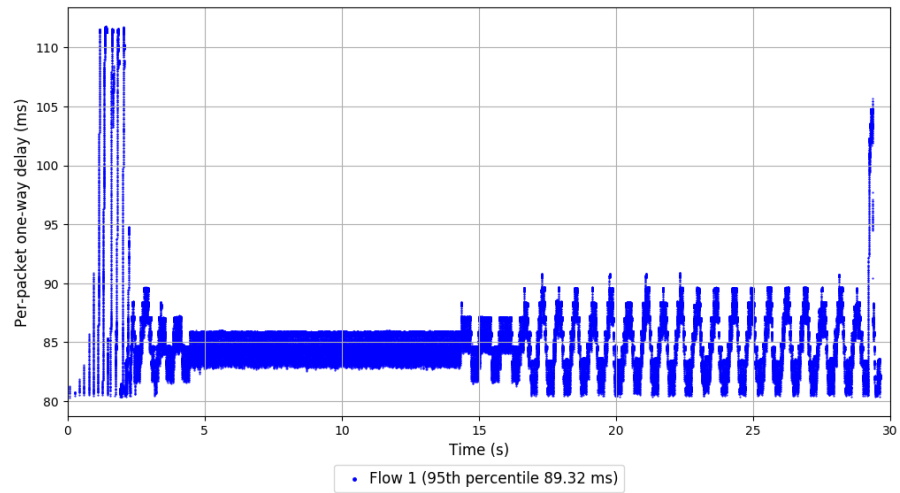
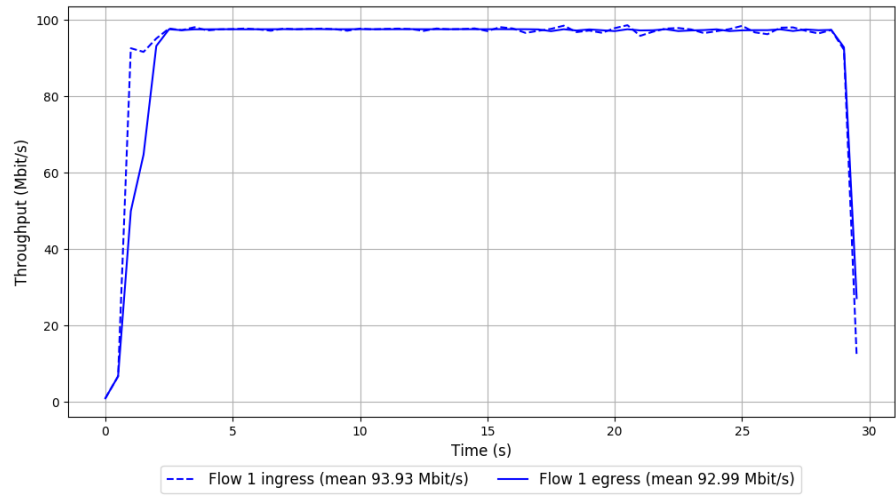


Run 9: Statistics of Indigo

Start at: 2018-01-16 16:51:47  
End at: 2018-01-16 16:52:17  
Local clock offset: 1.073 ms  
Remote clock offset: -6.366 ms

# Below is generated by plot.py at 2018-01-16 18:03:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.99 Mbit/s  
95th percentile per-packet one-way delay: 89.324 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 92.99 Mbit/s  
95th percentile per-packet one-way delay: 89.324 ms  
Loss rate: 1.00%

### Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-16 17:13:44

End at: 2018-01-16 17:14:14

Local clock offset: 1.072 ms

Remote clock offset: -1.557 ms

# Below is generated by plot.py at 2018-01-16 18:03:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 93.991 ms

Loss rate: 0.38%

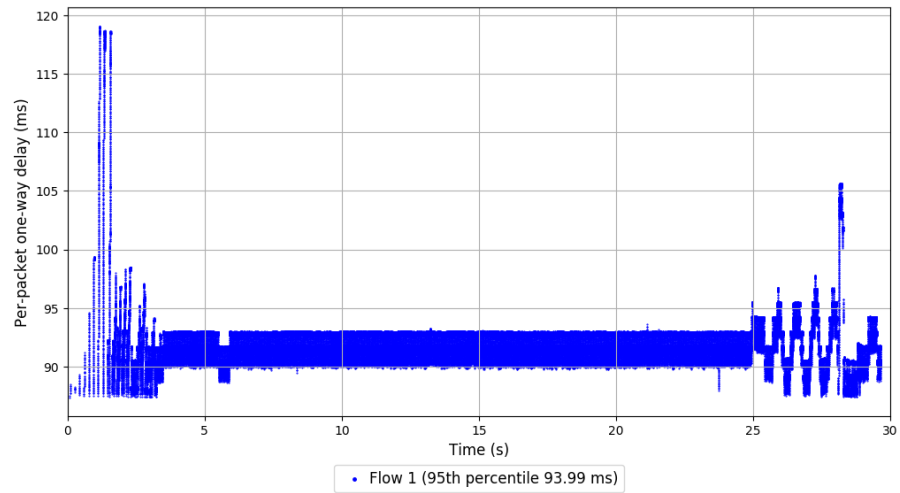
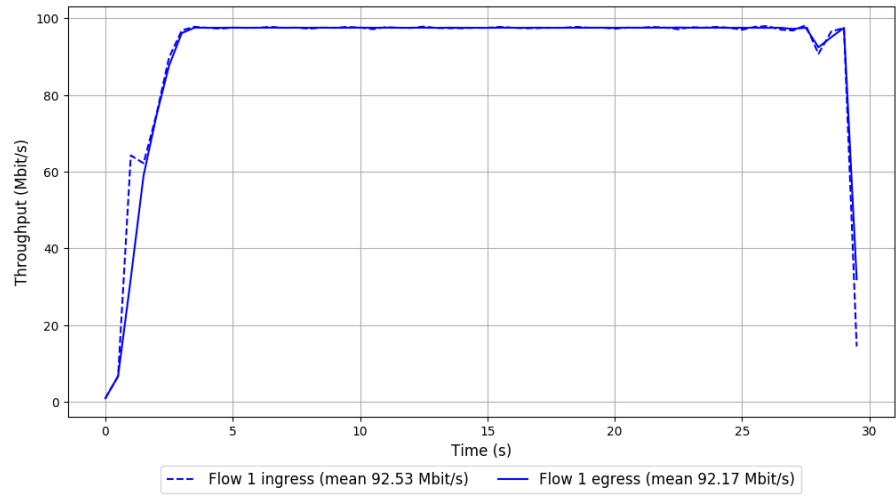
-- Flow 1:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 93.991 ms

Loss rate: 0.38%

# Run 10: Report of Indigo — Data Link



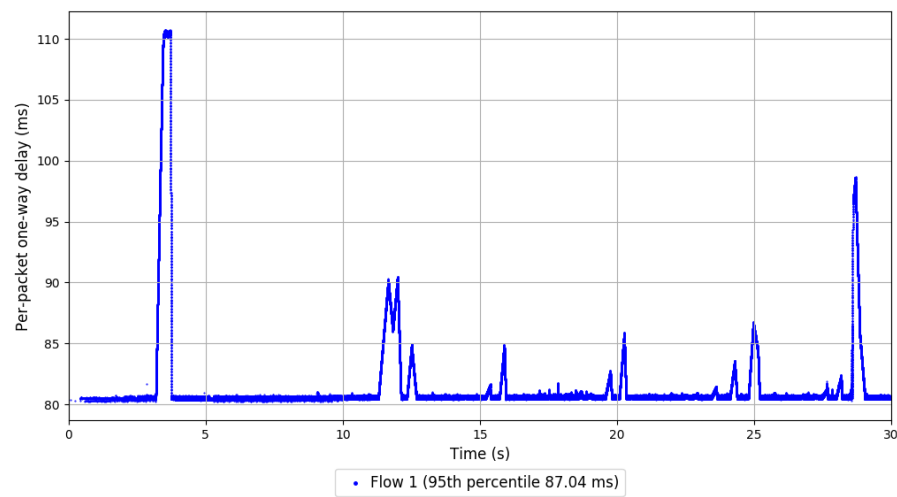
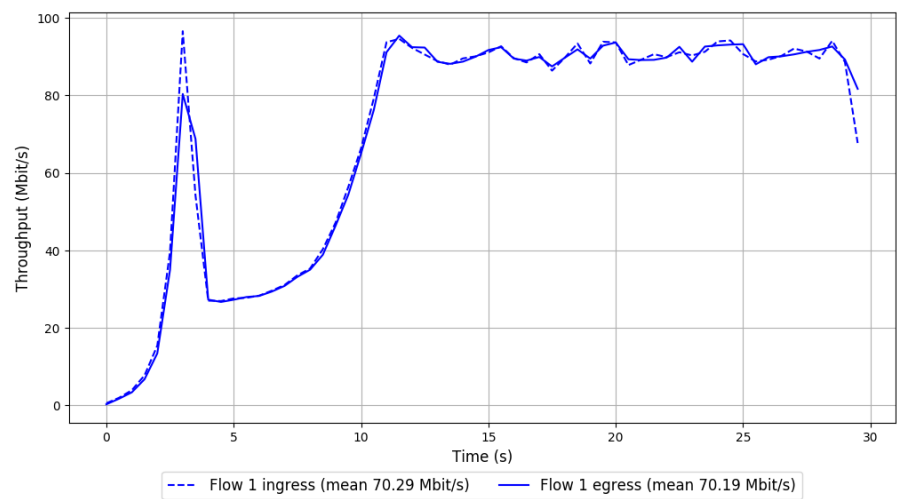
Run 1: Statistics of Vivace-latency

Start at: 2018-01-16 13:53:36  
End at: 2018-01-16 13:54:06  
Local clock offset: 0.25 ms  
Remote clock offset: -4.928 ms

# Below is generated by plot.py at 2018-01-16 18:04:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.19 Mbit/s  
95th percentile per-packet one-way delay: 87.041 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 70.19 Mbit/s  
95th percentile per-packet one-way delay: 87.041 ms  
Loss rate: 0.14%



Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 14:15:33

End at: 2018-01-16 14:16:03

Local clock offset: 0.586 ms

Remote clock offset: 0.871 ms

# Below is generated by plot.py at 2018-01-16 18:04:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.43 Mbit/s

95th percentile per-packet one-way delay: 94.922 ms

Loss rate: 0.16%

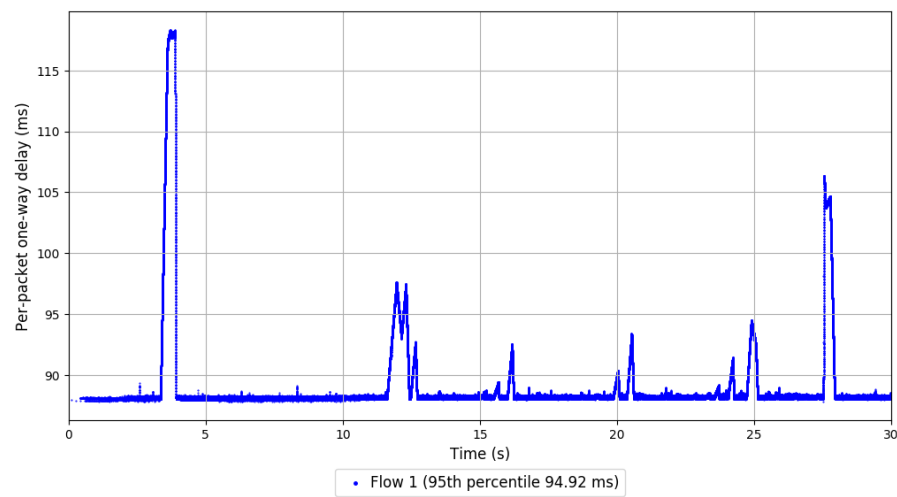
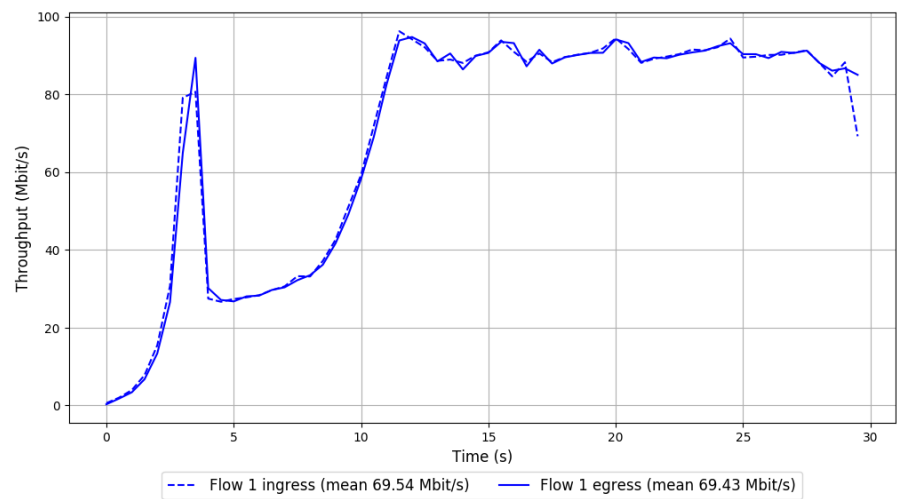
-- Flow 1:

Average throughput: 69.43 Mbit/s

95th percentile per-packet one-way delay: 94.922 ms

Loss rate: 0.16%

Run 2: Report of Vivace-latency — Data Link

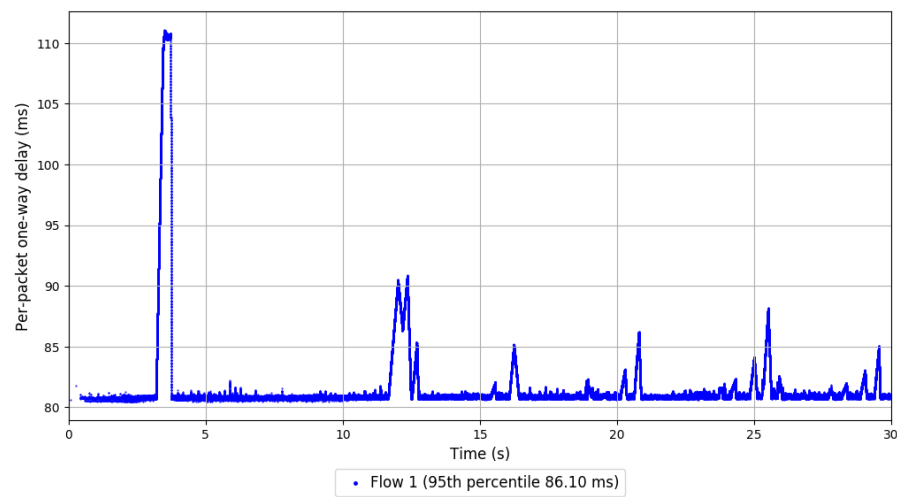
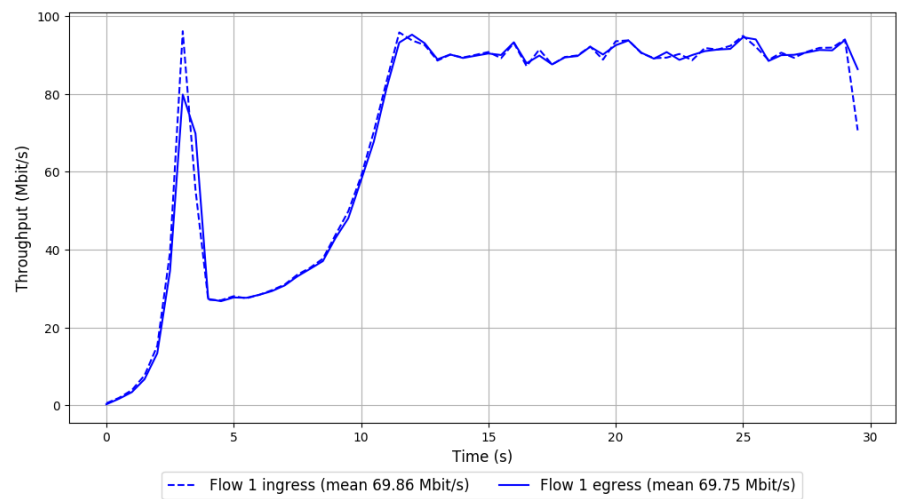


Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 14:37:26  
End at: 2018-01-16 14:37:56  
Local clock offset: 0.892 ms  
Remote clock offset: -4.893 ms

# Below is generated by plot.py at 2018-01-16 18:05:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.75 Mbit/s  
95th percentile per-packet one-way delay: 86.103 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 69.75 Mbit/s  
95th percentile per-packet one-way delay: 86.103 ms  
Loss rate: 0.15%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-16 14:59:15

End at: 2018-01-16 14:59:45

Local clock offset: 1.125 ms

Remote clock offset: 0.797 ms

# Below is generated by plot.py at 2018-01-16 18:05:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.11 Mbit/s

95th percentile per-packet one-way delay: 93.424 ms

Loss rate: 0.15%

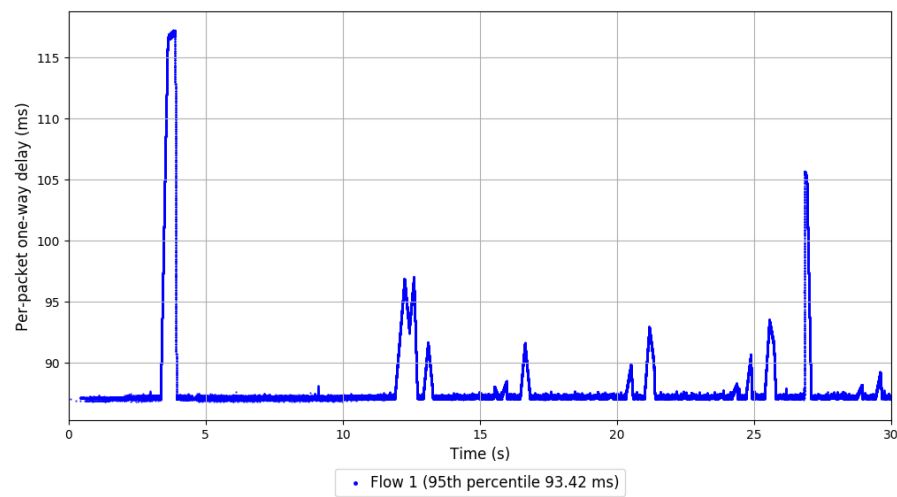
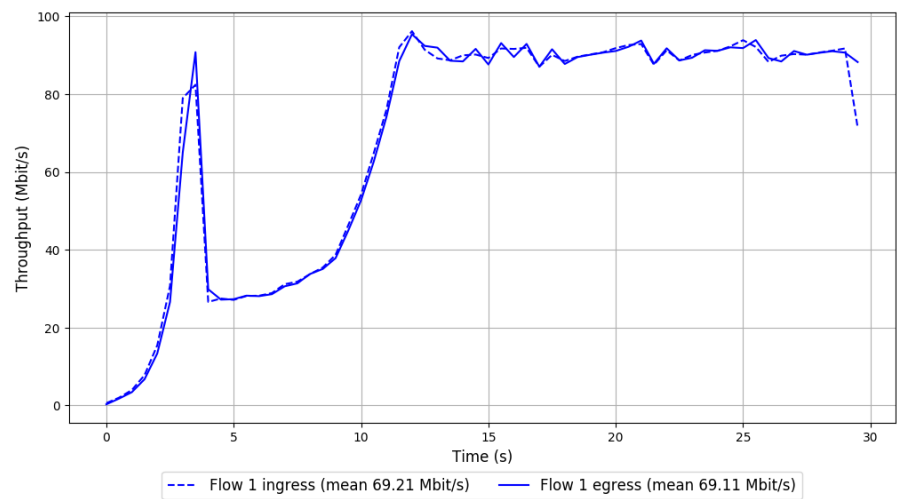
-- Flow 1:

Average throughput: 69.11 Mbit/s

95th percentile per-packet one-way delay: 93.424 ms

Loss rate: 0.15%

Run 4: Report of Vivace-latency — Data Link



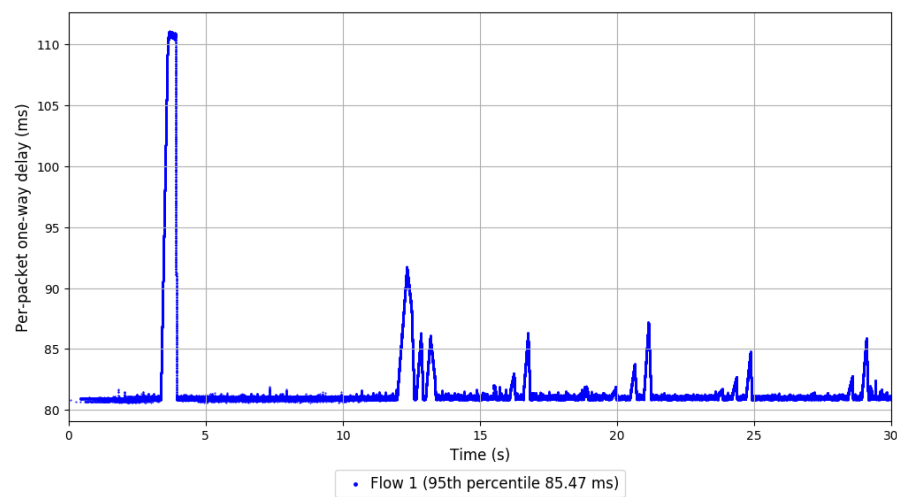
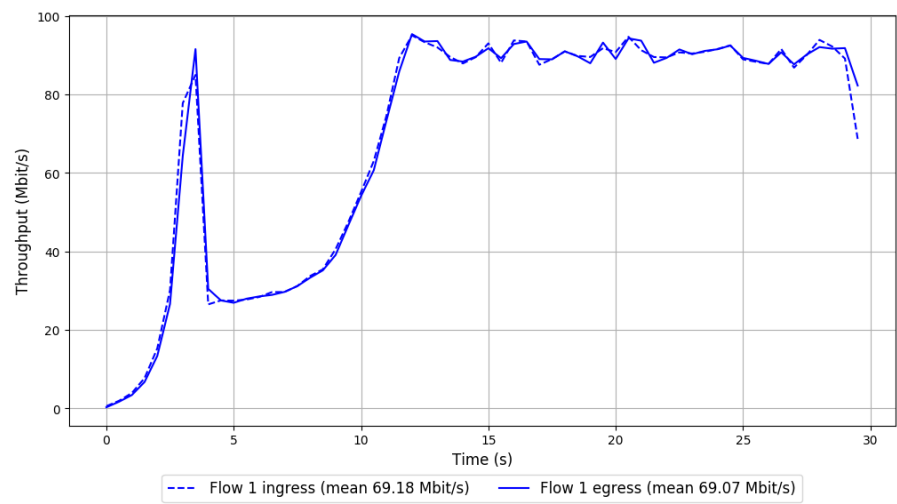
Run 5: Statistics of Vivace-latency

Start at: 2018-01-16 15:19:27  
End at: 2018-01-16 15:19:57  
Local clock offset: 1.166 ms  
Remote clock offset: -5.298 ms

# Below is generated by plot.py at 2018-01-16 18:05:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.07 Mbit/s  
95th percentile per-packet one-way delay: 85.466 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 69.07 Mbit/s  
95th percentile per-packet one-way delay: 85.466 ms  
Loss rate: 0.15%



Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-16 15:41:19

End at: 2018-01-16 15:41:49

Local clock offset: 1.087 ms

Remote clock offset: 1.412 ms

# Below is generated by plot.py at 2018-01-16 18:05:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 95.059 ms

Loss rate: 0.16%

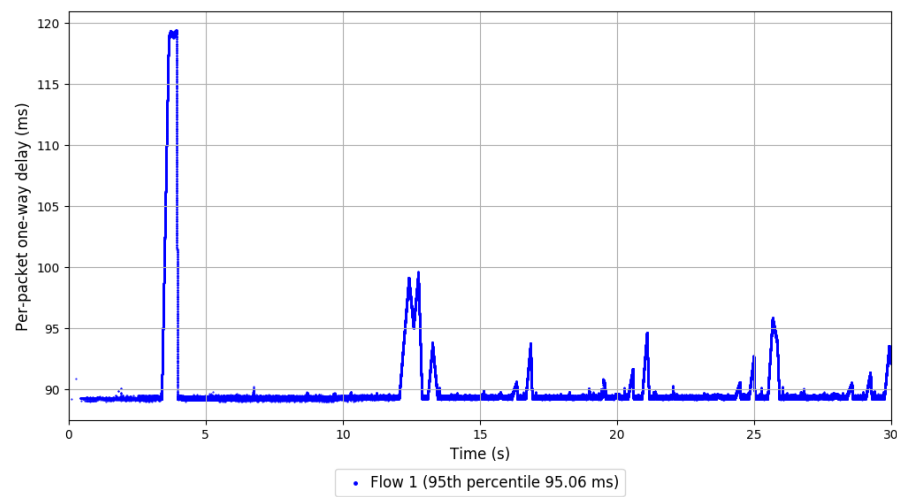
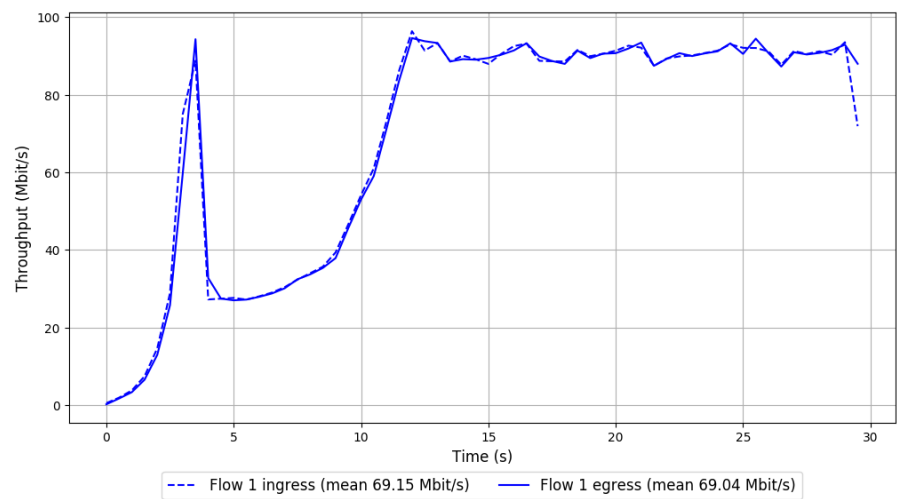
-- Flow 1:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 95.059 ms

Loss rate: 0.16%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-16 16:03:05

End at: 2018-01-16 16:03:35

Local clock offset: 1.055 ms

Remote clock offset: 0.458 ms

# Below is generated by plot.py at 2018-01-16 18:05:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 94.268 ms

Loss rate: 0.16%

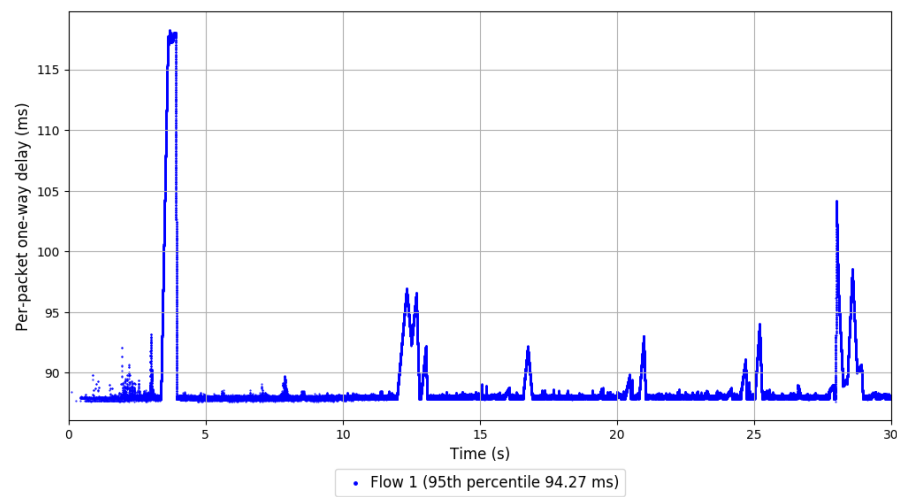
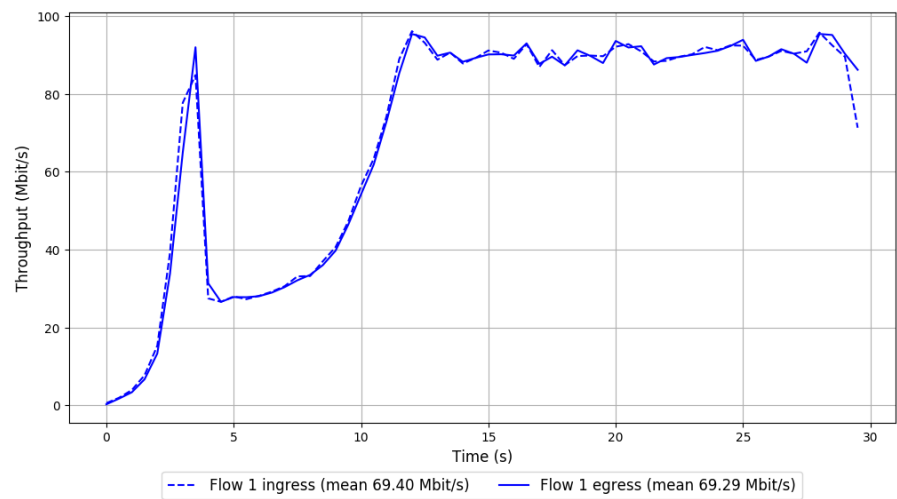
-- Flow 1:

Average throughput: 69.29 Mbit/s

95th percentile per-packet one-way delay: 94.268 ms

Loss rate: 0.16%

Run 7: Report of Vivace-latency — Data Link

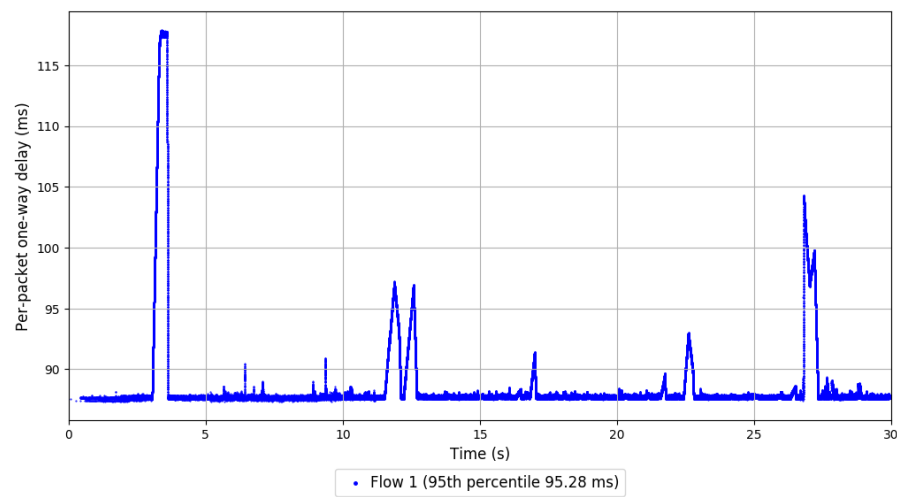
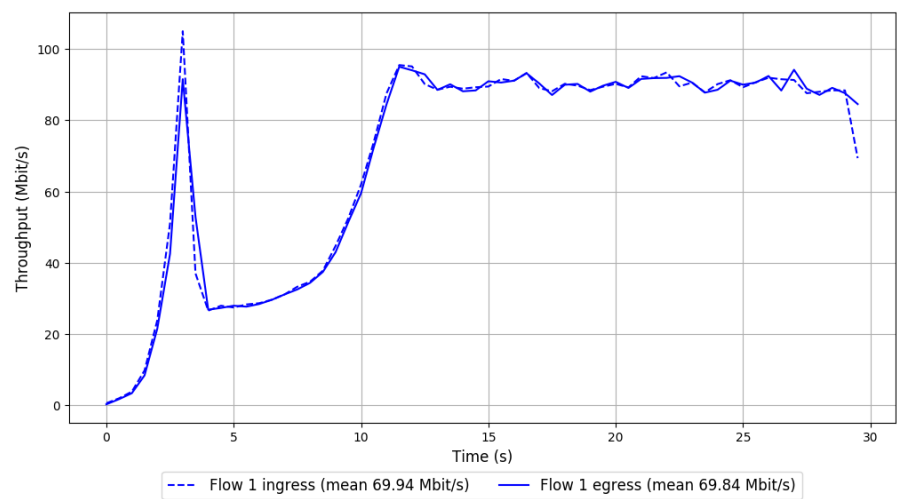


Run 8: Statistics of Vivace-latency

Start at: 2018-01-16 16:24:52  
End at: 2018-01-16 16:25:22  
Local clock offset: 1.115 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-01-16 18:05:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.84 Mbit/s  
95th percentile per-packet one-way delay: 95.280 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 69.84 Mbit/s  
95th percentile per-packet one-way delay: 95.280 ms  
Loss rate: 0.16%

Run 8: Report of Vivace-latency — Data Link



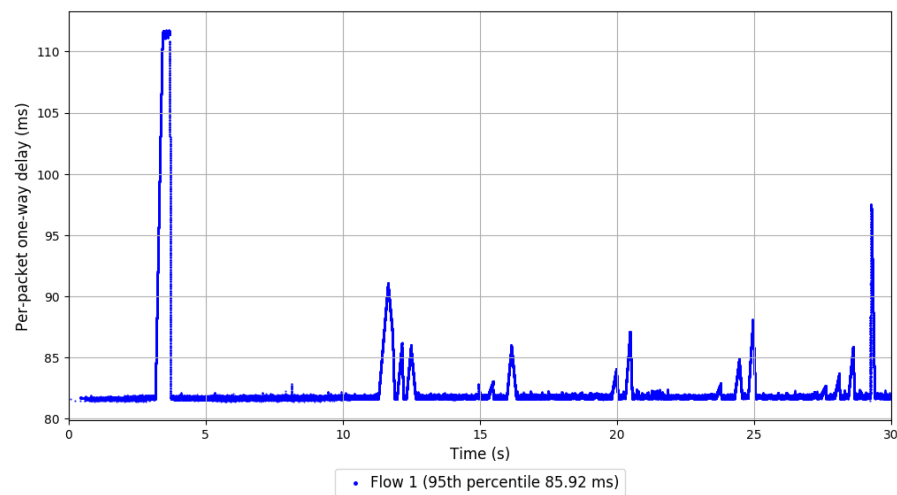
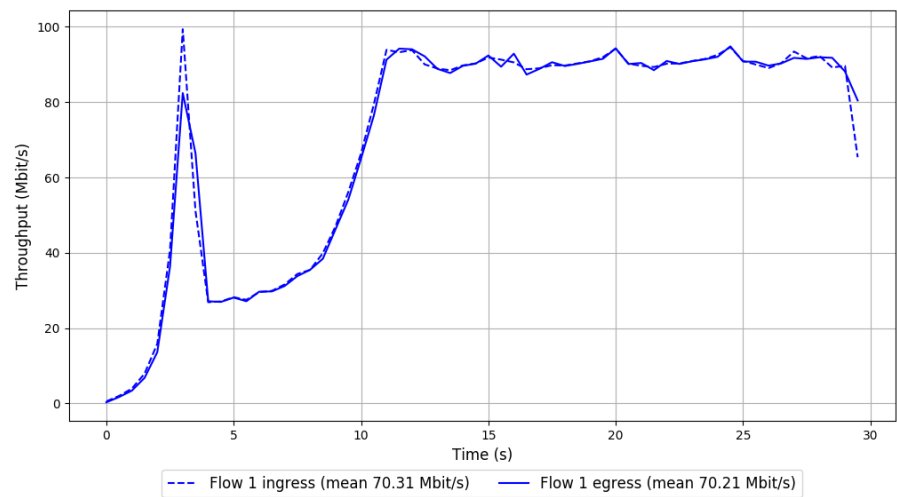
Run 9: Statistics of Vivace-latency

Start at: 2018-01-16 16:46:50  
End at: 2018-01-16 16:47:20  
Local clock offset: 1.084 ms  
Remote clock offset: -5.385 ms

# Below is generated by plot.py at 2018-01-16 18:06:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.21 Mbit/s  
95th percentile per-packet one-way delay: 85.920 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 70.21 Mbit/s  
95th percentile per-packet one-way delay: 85.920 ms  
Loss rate: 0.15%



Run 9: Report of Vivace-latency — Data Link

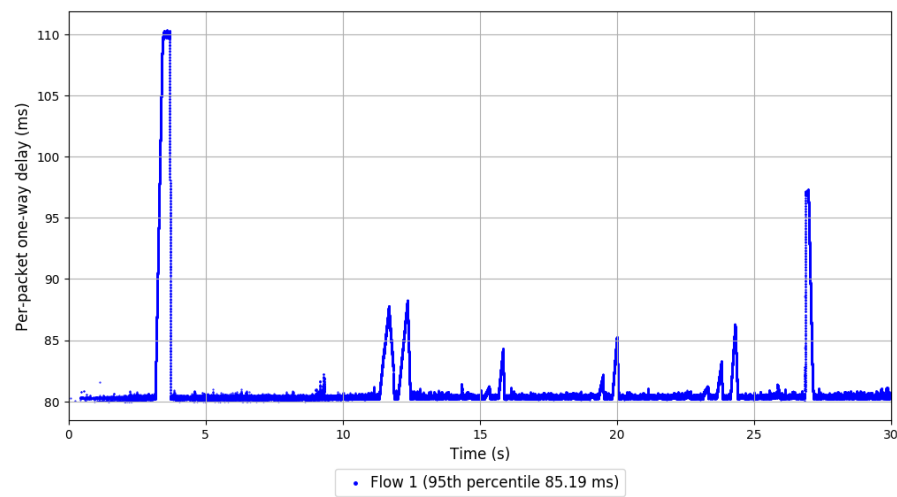
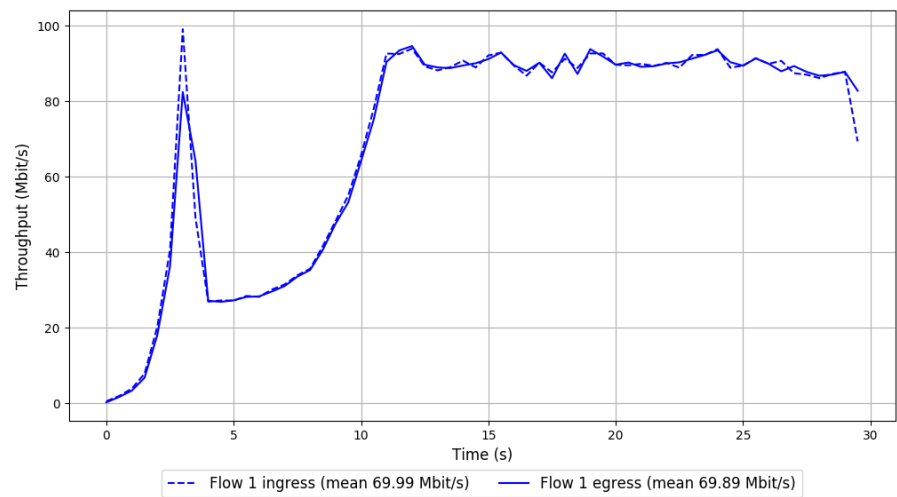


Run 10: Statistics of Vivace-latency

Start at: 2018-01-16 17:08:43  
End at: 2018-01-16 17:09:13  
Local clock offset: 1.113 ms  
Remote clock offset: -7.086 ms

# Below is generated by plot.py at 2018-01-16 18:06:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.89 Mbit/s  
95th percentile per-packet one-way delay: 85.192 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 69.89 Mbit/s  
95th percentile per-packet one-way delay: 85.192 ms  
Loss rate: 0.14%

Run 10: Report of Vivace-latency — Data Link

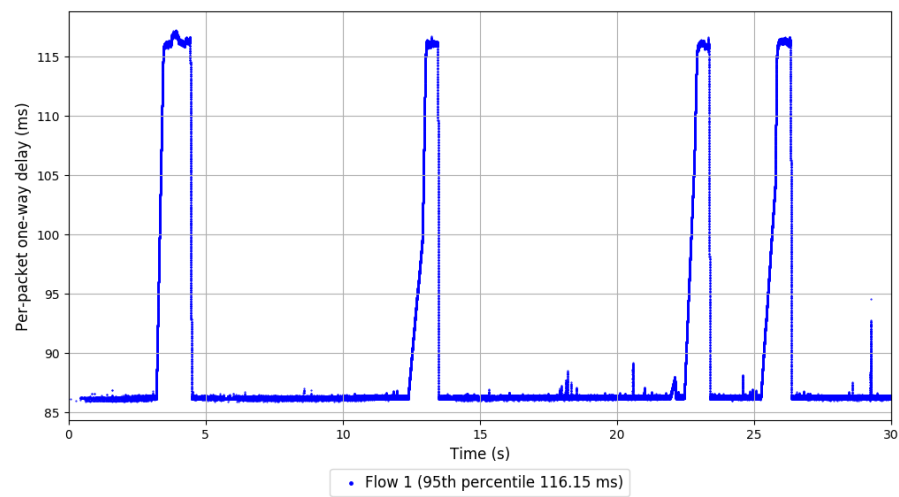
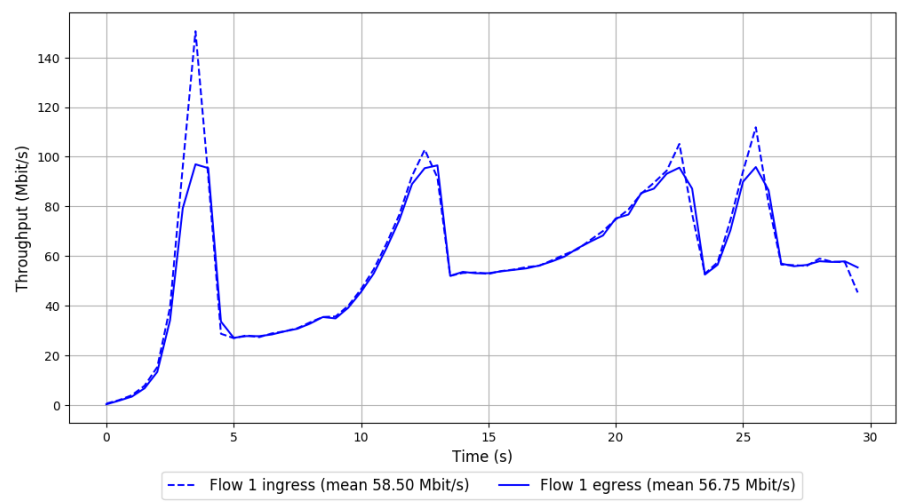


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 14:01:01
End at: 2018-01-16 14:01:31
Local clock offset: 0.362 ms
Remote clock offset: 0.716 ms

# Below is generated by plot.py at 2018-01-16 18:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 116.147 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 116.147 ms
Loss rate: 3.00%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 14:22:58

End at: 2018-01-16 14:23:28

Local clock offset: 0.704 ms

Remote clock offset: 1.758 ms

# Below is generated by plot.py at 2018-01-16 18:06:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.09 Mbit/s

95th percentile per-packet one-way delay: 117.171 ms

Loss rate: 3.46%

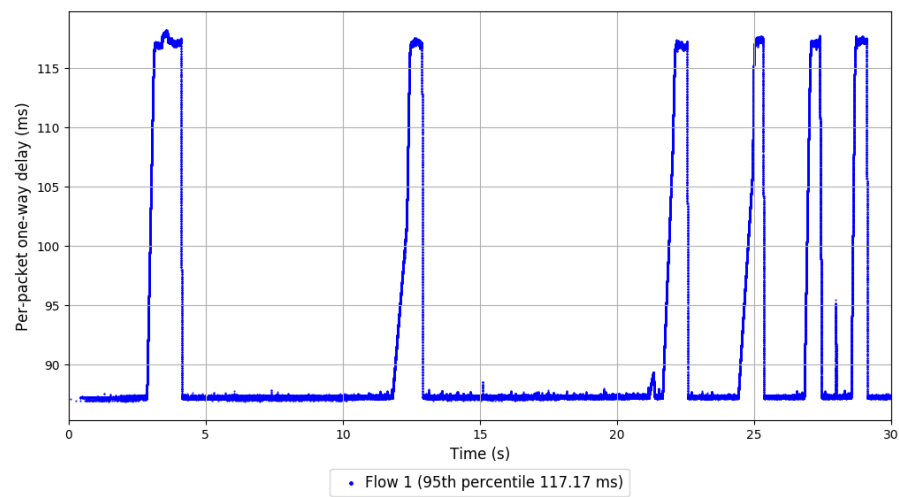
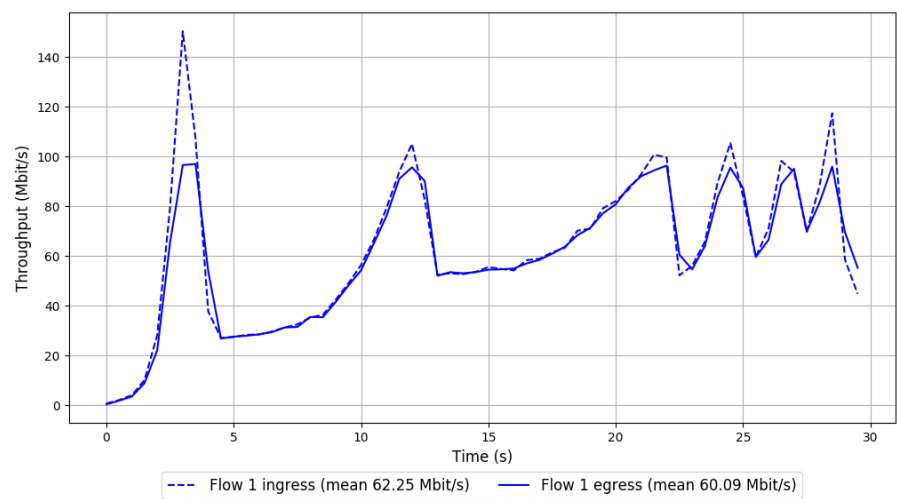
-- Flow 1:

Average throughput: 60.09 Mbit/s

95th percentile per-packet one-way delay: 117.171 ms

Loss rate: 3.46%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 14:44:51

End at: 2018-01-16 14:45:21

Local clock offset: 0.991 ms

Remote clock offset: 0.788 ms

# Below is generated by plot.py at 2018-01-16 18:06:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.74 Mbit/s

95th percentile per-packet one-way delay: 117.882 ms

Loss rate: 3.38%

-- Flow 1:

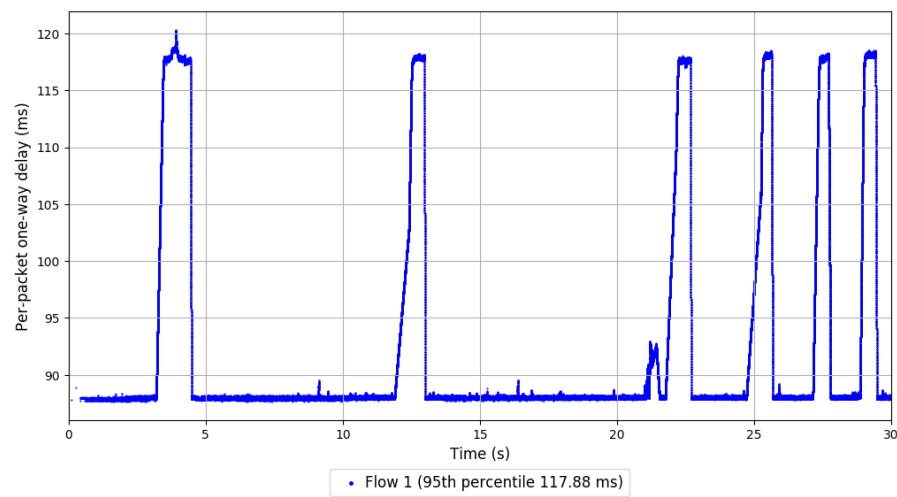
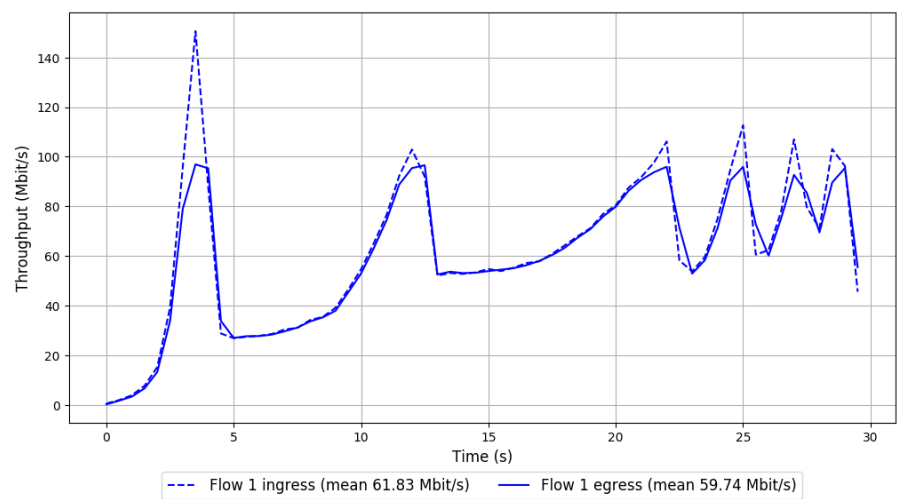
Average throughput: 59.74 Mbit/s

95th percentile per-packet one-way delay: 117.882 ms

Loss rate: 3.38%



Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-16 15:05:45

End at: 2018-01-16 15:06:15

Local clock offset: 1.167 ms

# Below is generated by plot.py at 2018-01-16 18:06:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.59 Mbit/s

95th percentile per-packet one-way delay: 118.095 ms

Loss rate: 3.19%

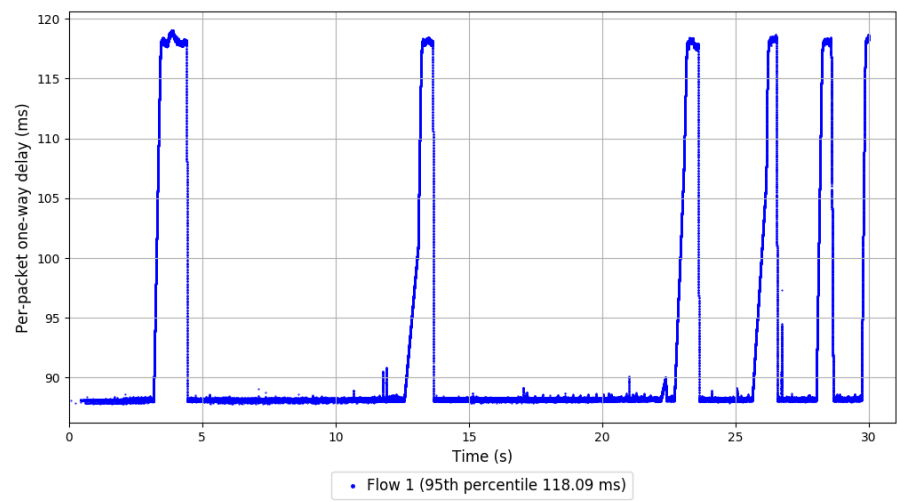
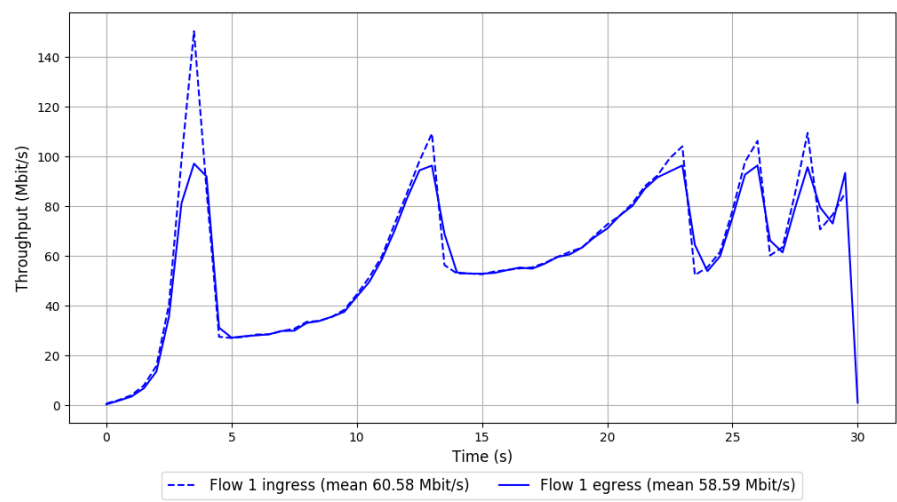
-- Flow 1:

Average throughput: 58.59 Mbit/s

95th percentile per-packet one-way delay: 118.095 ms

Loss rate: 3.19%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-16 15:26:53

End at: 2018-01-16 15:27:23

Local clock offset: 1.159 ms

Remote clock offset: 1.358 ms

# Below is generated by plot.py at 2018-01-16 18:06:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 117.583 ms

Loss rate: 3.50%

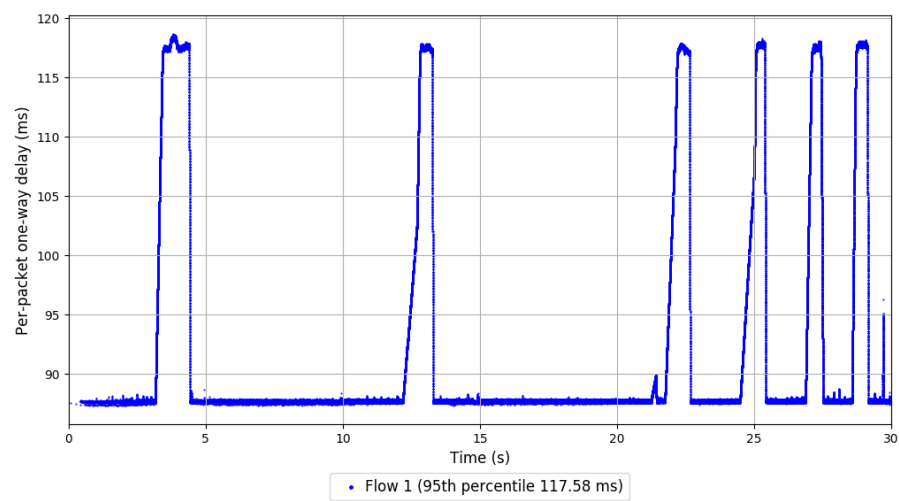
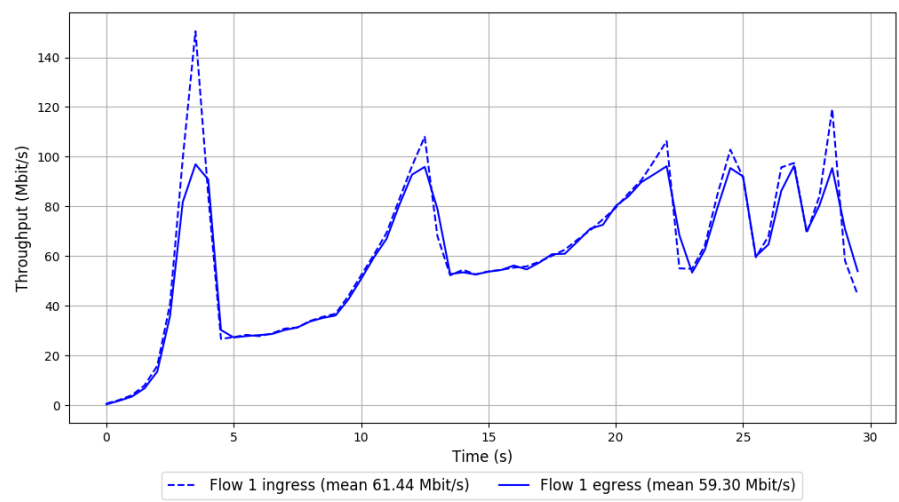
-- Flow 1:

Average throughput: 59.30 Mbit/s

95th percentile per-packet one-way delay: 117.583 ms

Loss rate: 3.50%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-16 15:48:43

End at: 2018-01-16 15:49:13

Local clock offset: 1.146 ms

Remote clock offset: -4.244 ms

# Below is generated by plot.py at 2018-01-16 18:07:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 111.135 ms

Loss rate: 2.83%

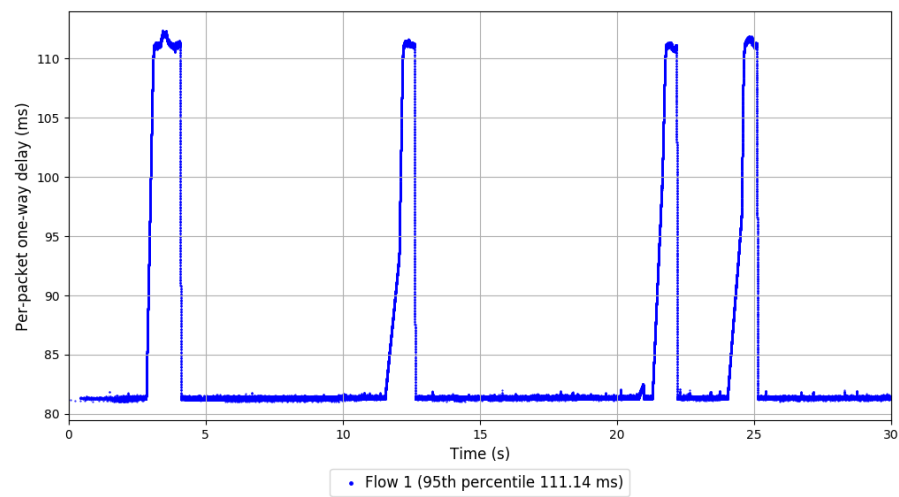
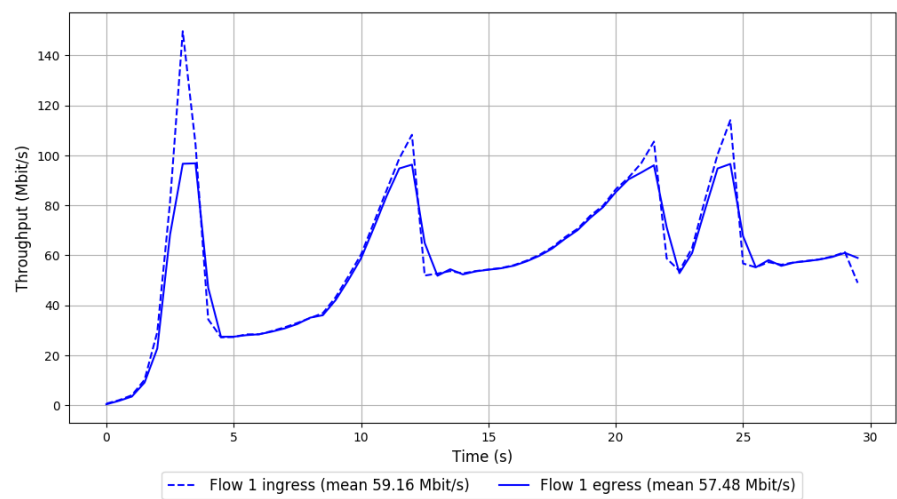
-- Flow 1:

Average throughput: 57.48 Mbit/s

95th percentile per-packet one-way delay: 111.135 ms

Loss rate: 2.83%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-16 16:10:29

End at: 2018-01-16 16:10:59

Local clock offset: 1.127 ms

Remote clock offset: 0.916 ms

# Below is generated by plot.py at 2018-01-16 18:08:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 116.820 ms

Loss rate: 3.13%

-- Flow 1:

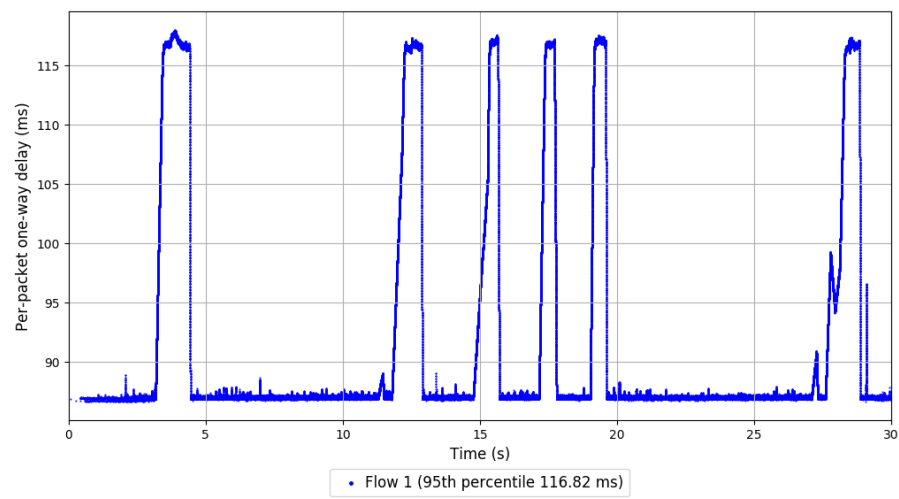
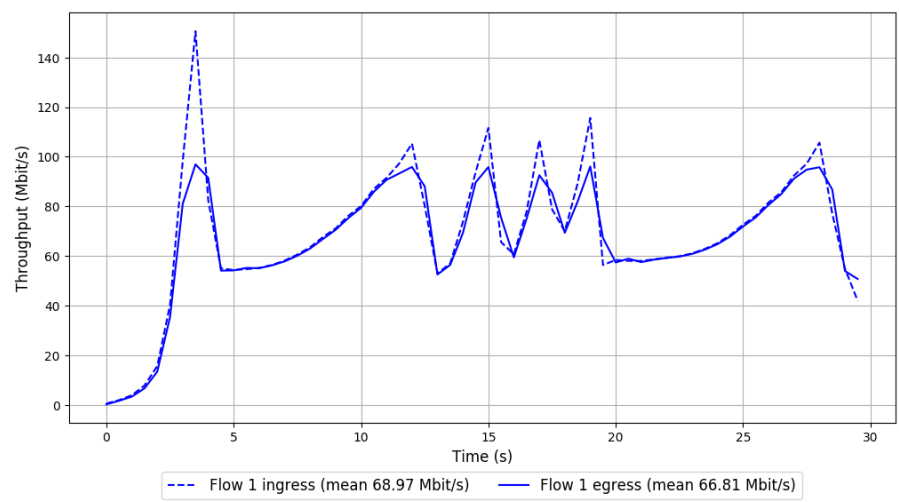
Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 116.820 ms

Loss rate: 3.13%



Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-16 16:32:18

End at: 2018-01-16 16:32:48

Local clock offset: 1.124 ms

Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-01-16 18:08:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.31 Mbit/s

95th percentile per-packet one-way delay: 116.117 ms

Loss rate: 2.98%

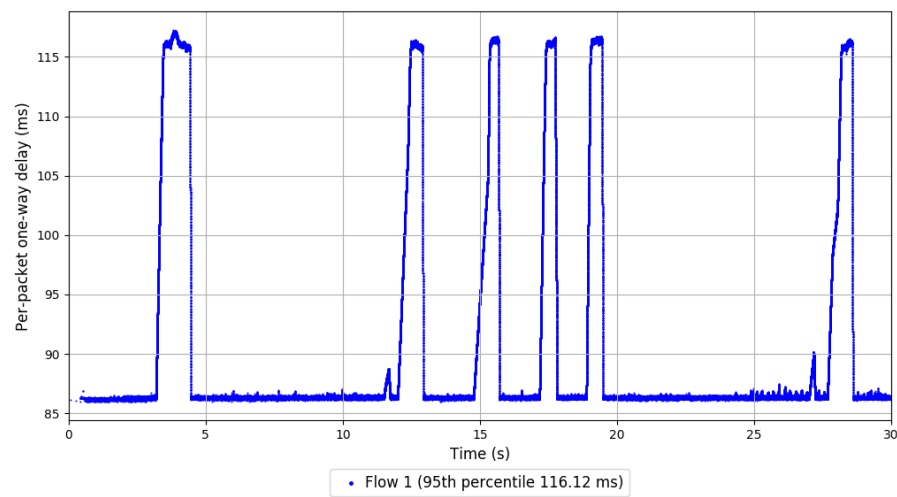
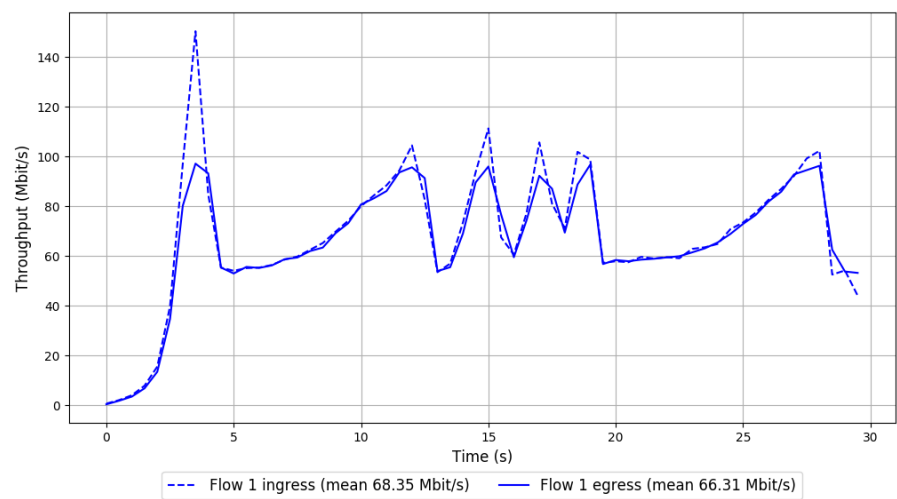
-- Flow 1:

Average throughput: 66.31 Mbit/s

95th percentile per-packet one-way delay: 116.117 ms

Loss rate: 2.98%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

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

End at: 2018-01-16 16:54:46

Local clock offset: 1.168 ms

Remote clock offset: -5.742 ms

# Below is generated by plot.py at 2018-01-16 18:08:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.19 Mbit/s

95th percentile per-packet one-way delay: 112.700 ms

Loss rate: 3.01%

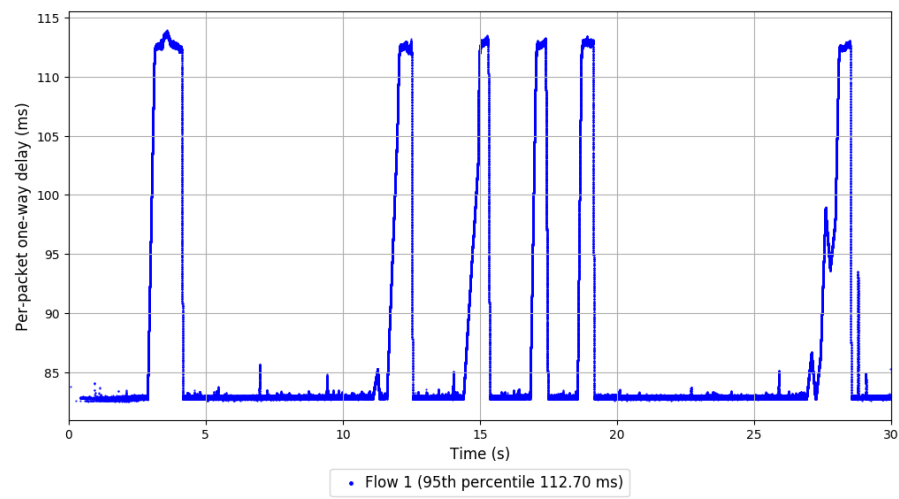
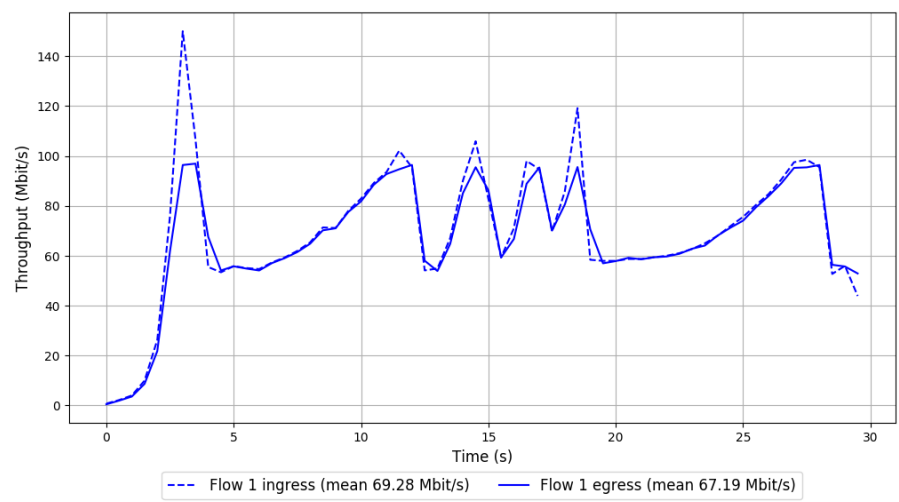
-- Flow 1:

Average throughput: 67.19 Mbit/s

95th percentile per-packet one-way delay: 112.700 ms

Loss rate: 3.01%

Run 9: Report of Vivace-loss — Data Link

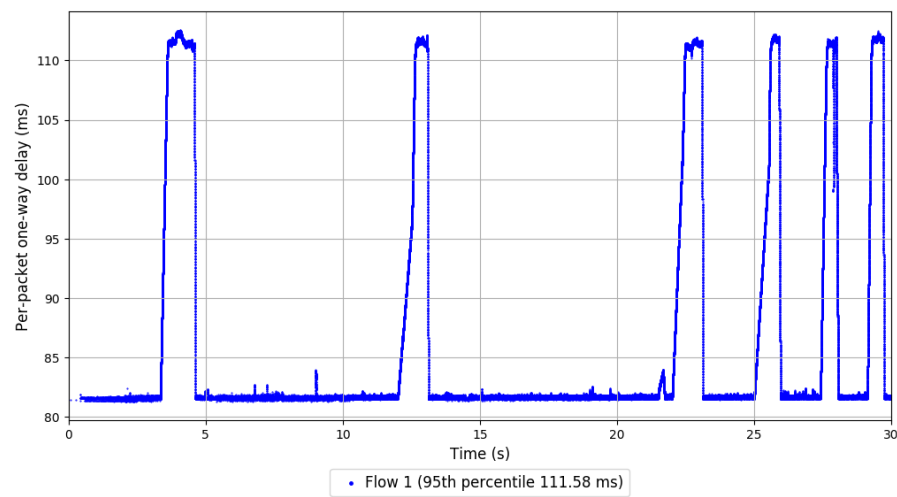
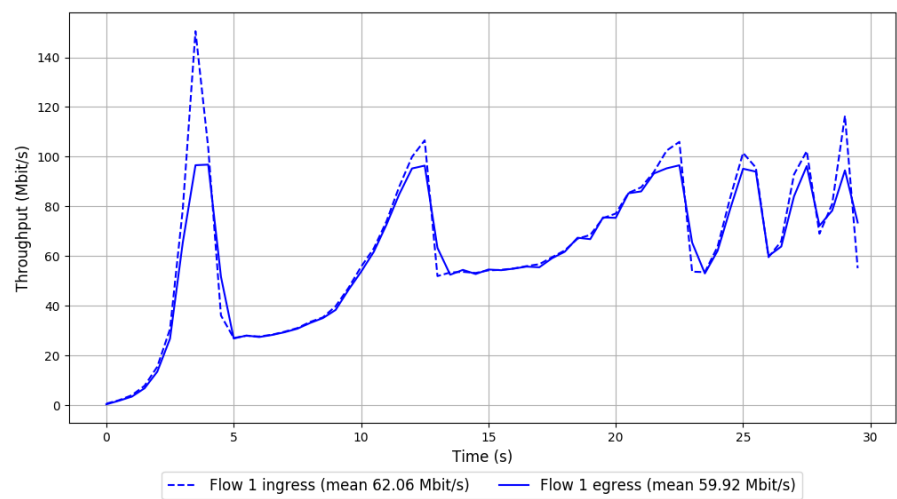


Run 10: Statistics of Vivace-loss

Start at: 2018-01-16 17:16:13  
End at: 2018-01-16 17:16:43  
Local clock offset: 1.06 ms  
Remote clock offset: -7.291 ms

# Below is generated by plot.py at 2018-01-16 18:08:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 59.92 Mbit/s  
95th percentile per-packet one-way delay: 111.575 ms  
Loss rate: 3.47%  
-- Flow 1:  
Average throughput: 59.92 Mbit/s  
95th percentile per-packet one-way delay: 111.575 ms  
Loss rate: 3.47%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 13:50:04

End at: 2018-01-16 13:50:34

Local clock offset: 0.206 ms

Remote clock offset: -4.111 ms

# Below is generated by plot.py at 2018-01-16 18:08:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 112.306 ms

Loss rate: 20.93%

-- Flow 1:

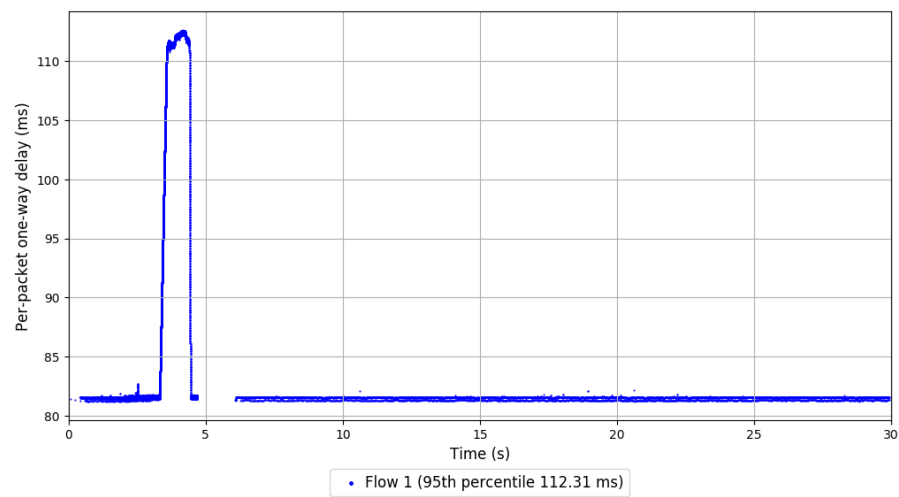
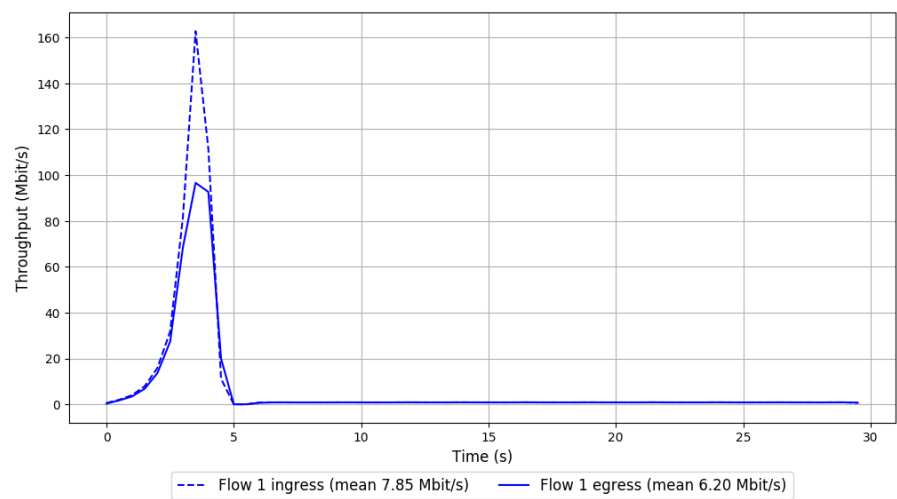
Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 112.306 ms

Loss rate: 20.93%



Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 14:11:56

End at: 2018-01-16 14:12:26

Local clock offset: 0.541 ms

Remote clock offset: 0.95 ms

# Below is generated by plot.py at 2018-01-16 18:08:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 118.887 ms

Loss rate: 20.95%

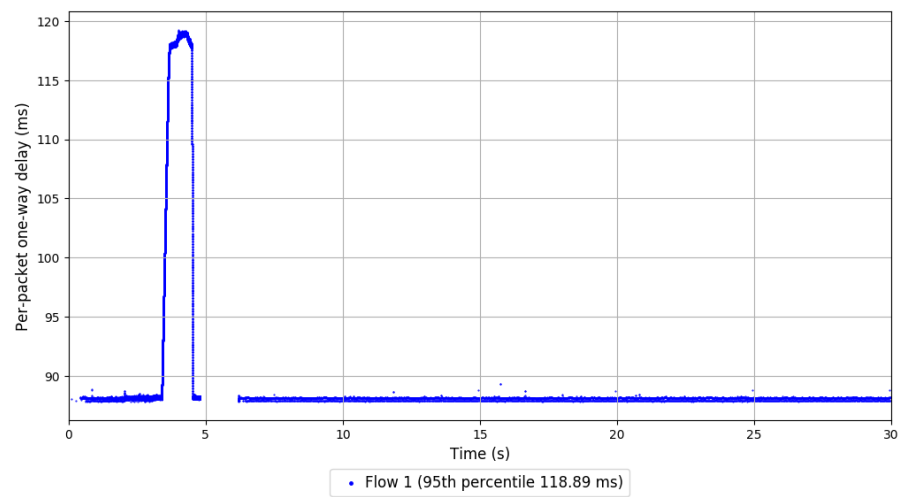
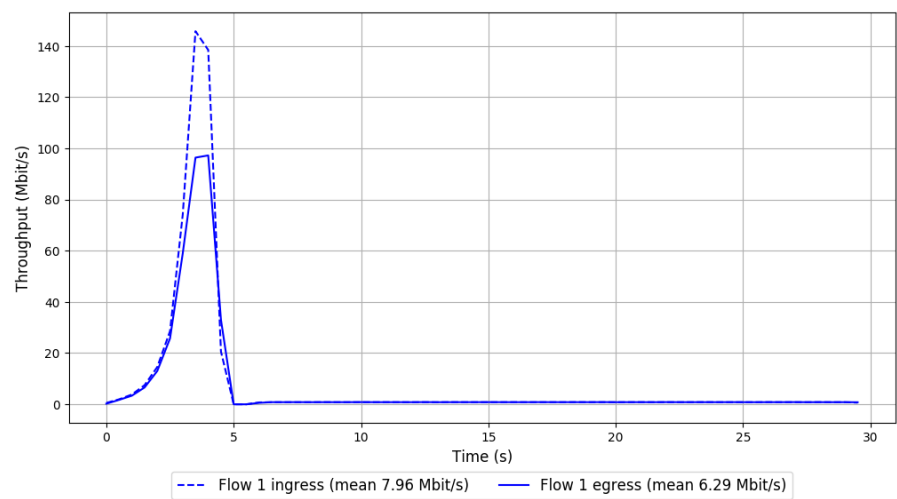
-- Flow 1:

Average throughput: 6.29 Mbit/s

95th percentile per-packet one-way delay: 118.887 ms

Loss rate: 20.95%

Run 2: Report of Vivace-LTE — Data Link

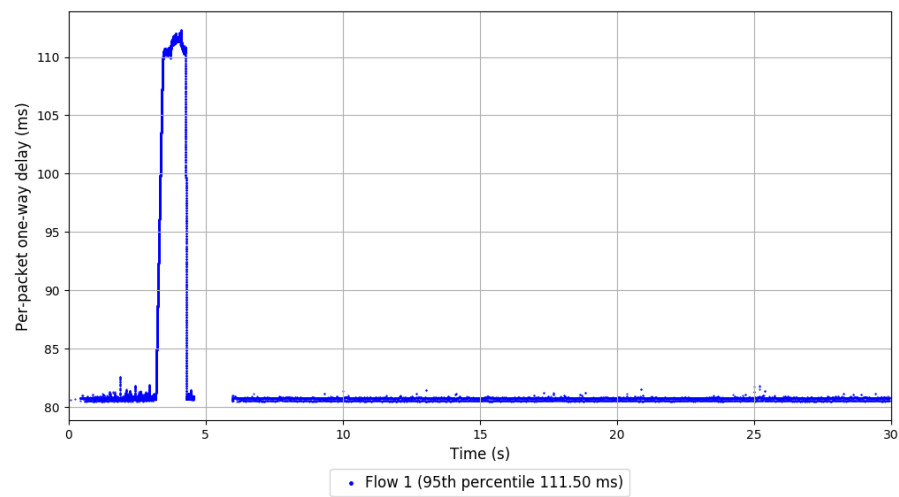
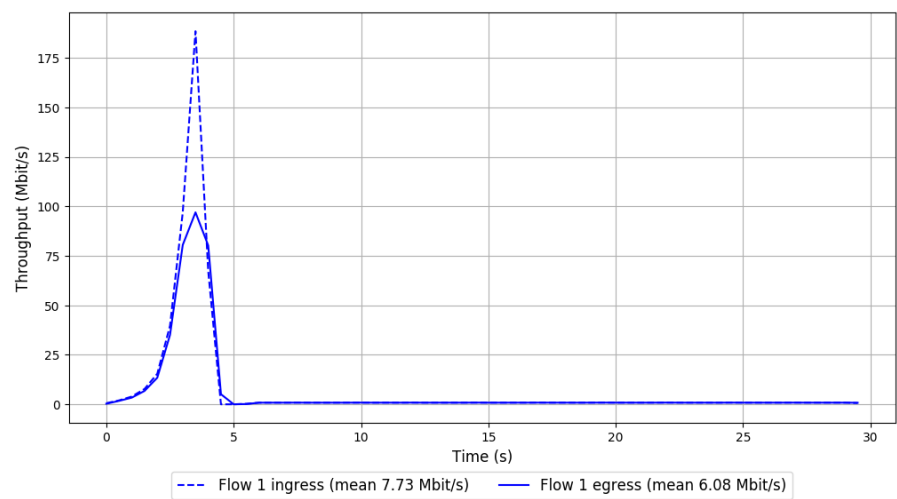


Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 14:33:53  
End at: 2018-01-16 14:34:23  
Local clock offset: 0.887 ms  
Remote clock offset: -4.931 ms

# Below is generated by plot.py at 2018-01-16 18:08:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.08 Mbit/s  
95th percentile per-packet one-way delay: 111.503 ms  
Loss rate: 21.35%  
-- Flow 1:  
Average throughput: 6.08 Mbit/s  
95th percentile per-packet one-way delay: 111.503 ms  
Loss rate: 21.35%

Run 3: Report of Vivace-LTE — Data Link

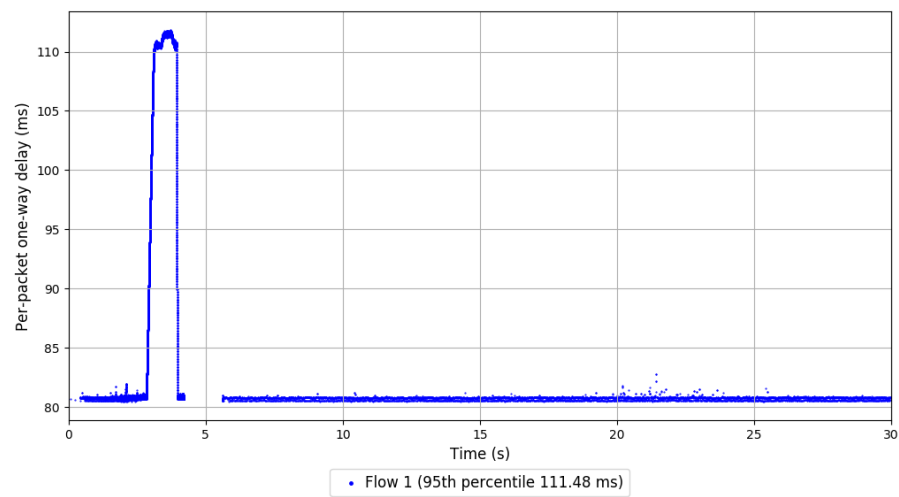
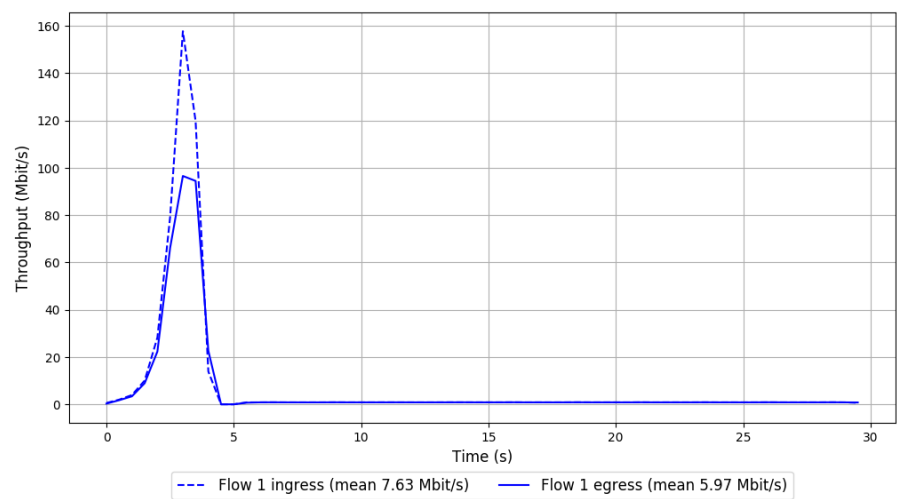


Run 4: Statistics of Vivace-LTE

Start at: 2018-01-16 14:55:37  
End at: 2018-01-16 14:56:07  
Local clock offset: 1.107 ms  
Remote clock offset: -4.908 ms

# Below is generated by plot.py at 2018-01-16 18:08:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.97 Mbit/s  
95th percentile per-packet one-way delay: 111.481 ms  
Loss rate: 21.69%  
-- Flow 1:  
Average throughput: 5.97 Mbit/s  
95th percentile per-packet one-way delay: 111.481 ms  
Loss rate: 21.69%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

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

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

Local clock offset: 1.143 ms

Remote clock offset: 0.499 ms

# Below is generated by plot.py at 2018-01-16 18:08:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 118.673 ms

Loss rate: 21.37%

-- Flow 1:

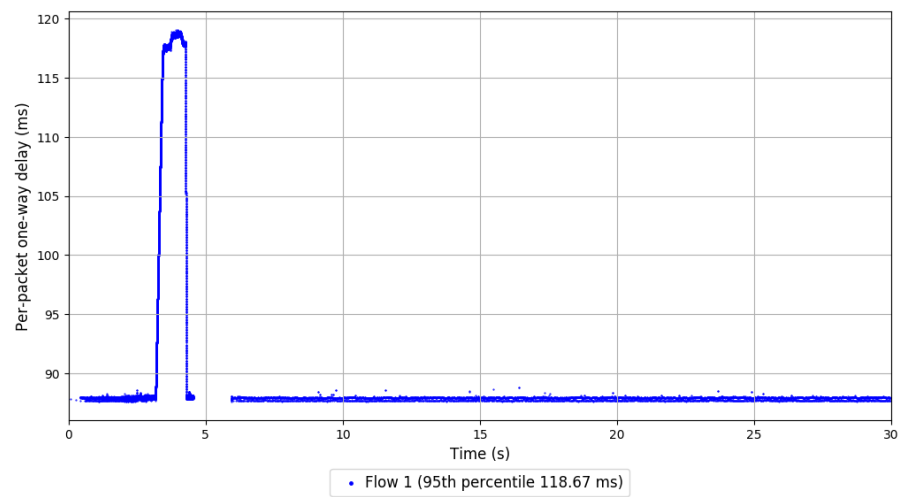
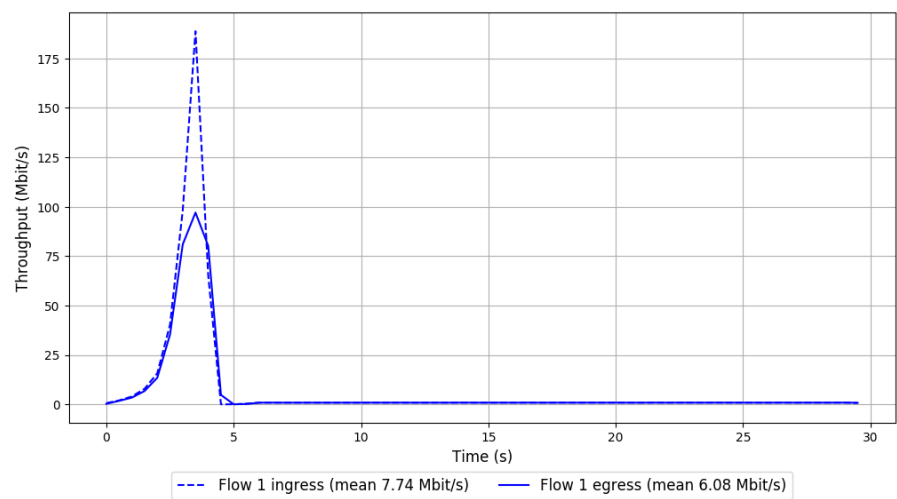
Average throughput: 6.08 Mbit/s

95th percentile per-packet one-way delay: 118.673 ms

Loss rate: 21.37%



Run 5: Report of Vivace-LTE — Data Link

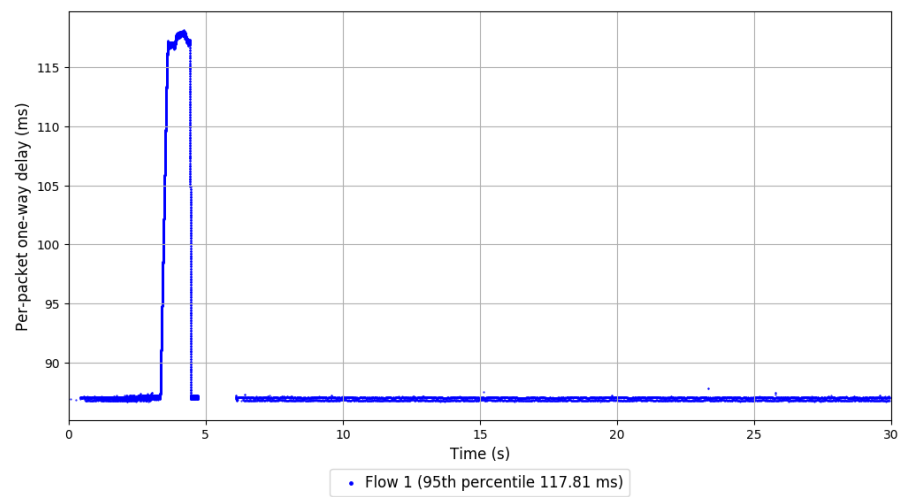
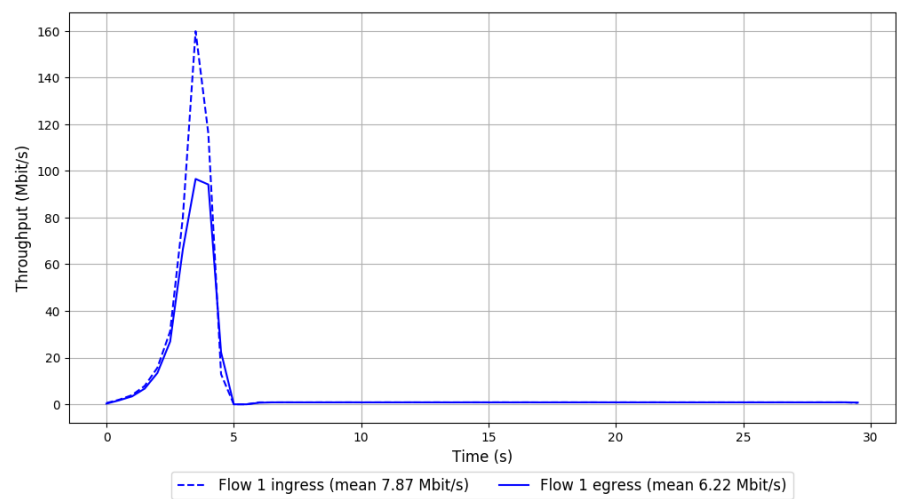


Run 6: Statistics of Vivace-LTE

Start at: 2018-01-16 15:37:41  
End at: 2018-01-16 15:38:11  
Local clock offset: 1.17 ms  
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2018-01-16 18:08:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.22 Mbit/s  
95th percentile per-packet one-way delay: 117.806 ms  
Loss rate: 20.93%  
-- Flow 1:  
Average throughput: 6.22 Mbit/s  
95th percentile per-packet one-way delay: 117.806 ms  
Loss rate: 20.93%

Run 6: Report of Vivace-LTE — Data Link

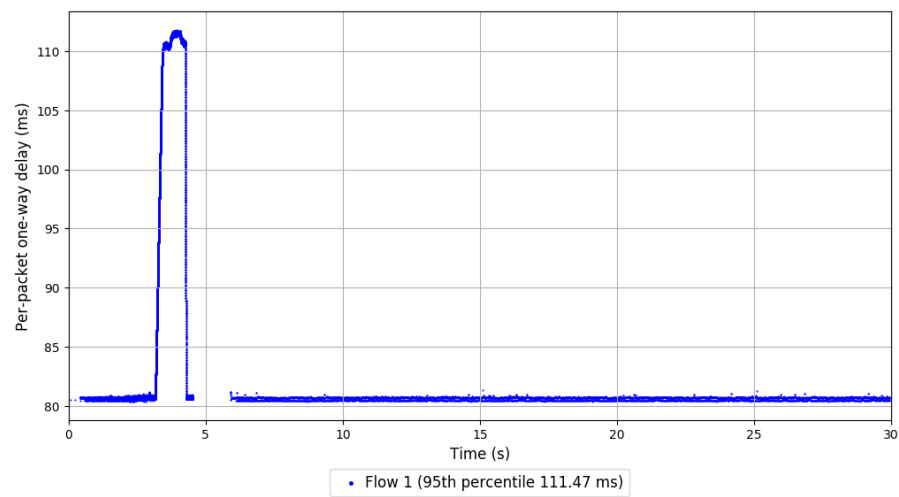
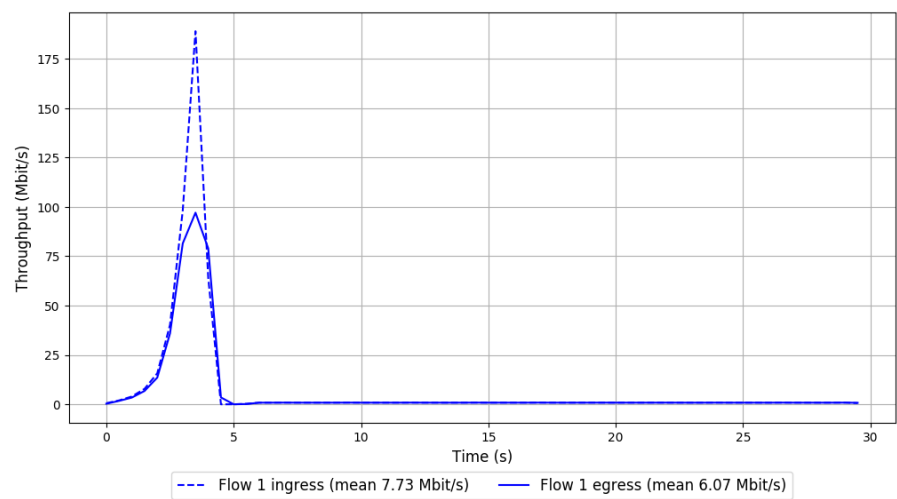


Run 7: Statistics of Vivace-LTE

Start at: 2018-01-16 15:59:32  
End at: 2018-01-16 16:00:02  
Local clock offset: 1.143 ms  
Remote clock offset: -5.226 ms

# Below is generated by plot.py at 2018-01-16 18:08:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.07 Mbit/s  
95th percentile per-packet one-way delay: 111.469 ms  
Loss rate: 21.44%  
-- Flow 1:  
Average throughput: 6.07 Mbit/s  
95th percentile per-packet one-way delay: 111.469 ms  
Loss rate: 21.44%

Run 7: Report of Vivace-LTE — Data Link

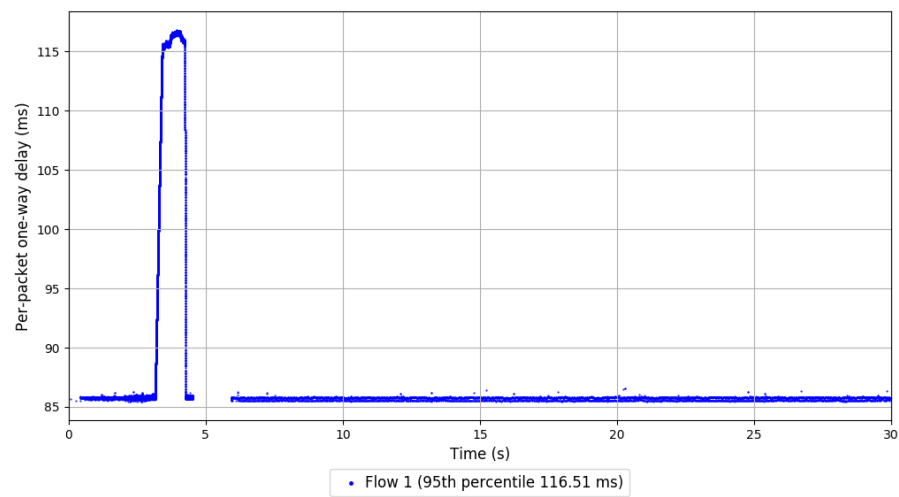
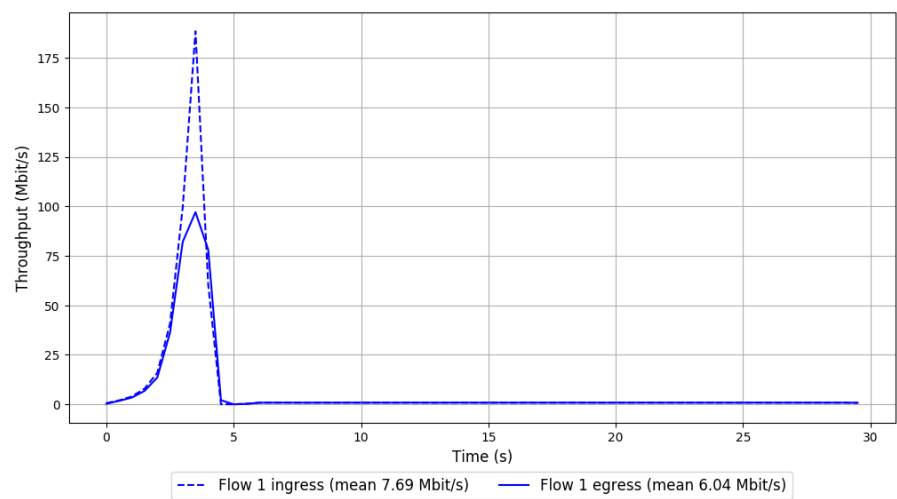


Run 8: Statistics of Vivace-LTE

Start at: 2018-01-16 16:21:19  
End at: 2018-01-16 16:21:49  
Local clock offset: 1.104 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-01-16 18:08:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.04 Mbit/s  
95th percentile per-packet one-way delay: 116.508 ms  
Loss rate: 21.42%  
-- Flow 1:  
Average throughput: 6.04 Mbit/s  
95th percentile per-packet one-way delay: 116.508 ms  
Loss rate: 21.42%

Run 8: Report of Vivace-LTE — Data Link



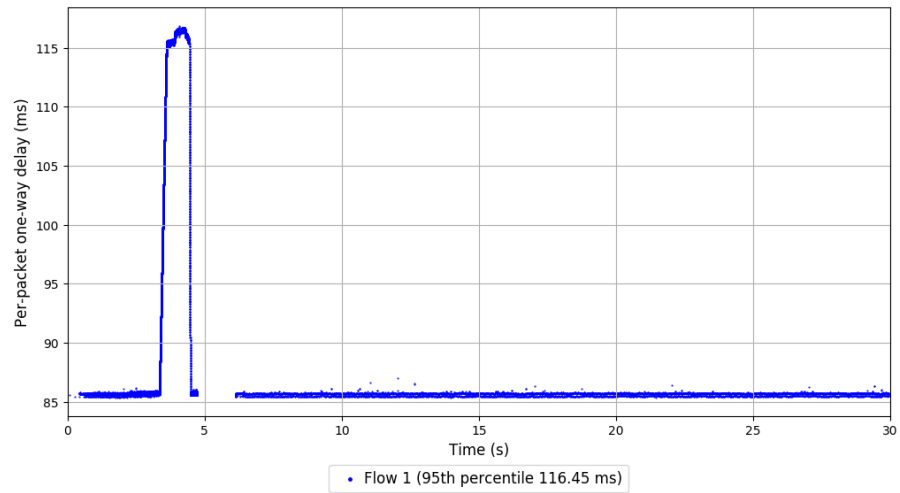
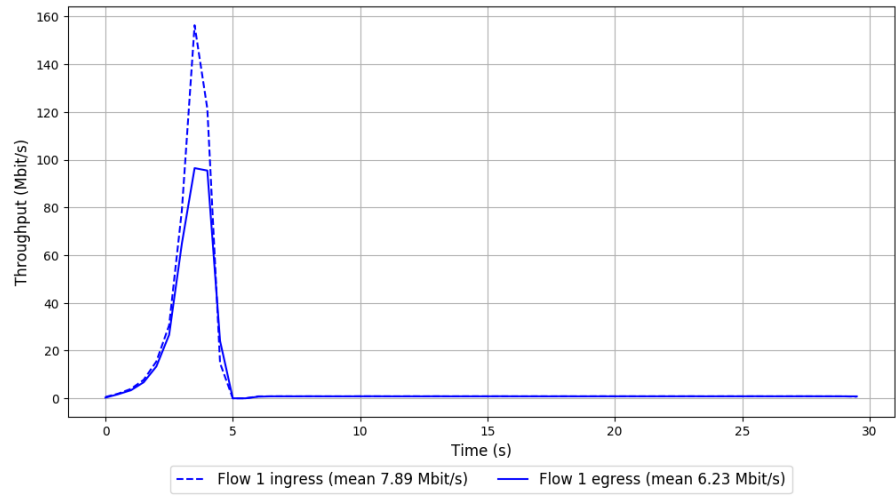
Run 9: Statistics of Vivace-LTE

Start at: 2018-01-16 16:43:12  
End at: 2018-01-16 16:43:42  
Local clock offset: 1.133 ms  
Remote clock offset: -0.357 ms

# Below is generated by plot.py at 2018-01-16 18:08:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.23 Mbit/s  
95th percentile per-packet one-way delay: 116.450 ms  
Loss rate: 20.93%  
-- Flow 1:  
Average throughput: 6.23 Mbit/s  
95th percentile per-packet one-way delay: 116.450 ms  
Loss rate: 20.93%



### Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-16 17:05:11

End at: 2018-01-16 17:05:41

Local clock offset: 1.059 ms

Remote clock offset: -2.16 ms

# Below is generated by plot.py at 2018-01-16 18:08:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 115.891 ms

Loss rate: 21.11%

-- Flow 1:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 115.891 ms

Loss rate: 21.11%

Run 10: Report of Vivace-LTE — Data Link

