

## Pantheon Report

Generated at 2018-06-29 17:10:48 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

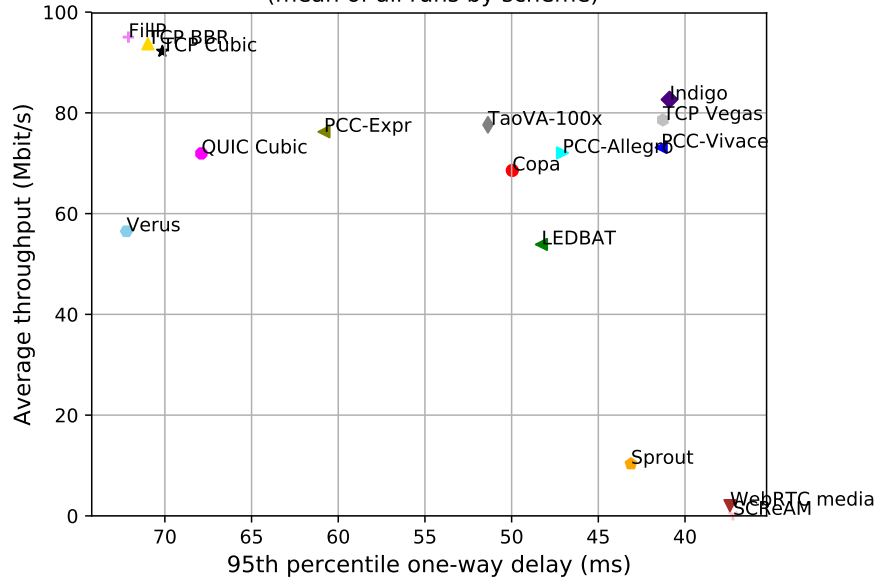
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

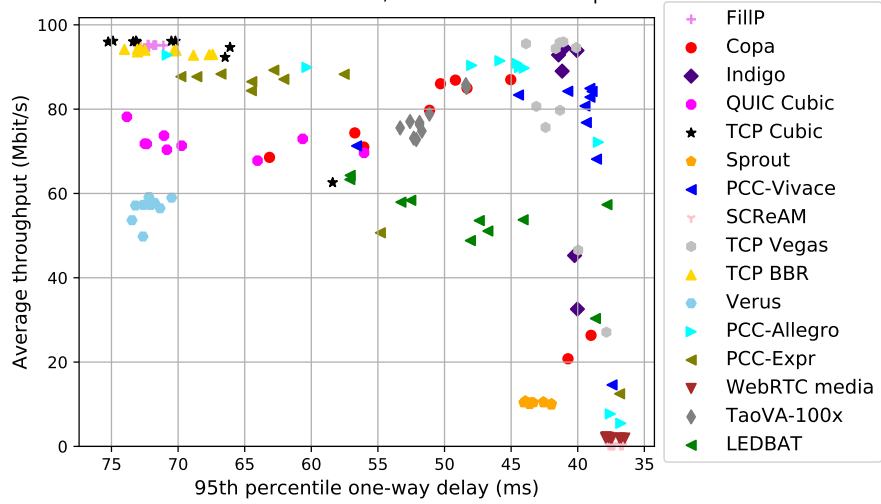
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 2 to Mexico, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from AWS California 2 to Mexico, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	93.70	70.98	6.10
Copa	10	68.57	49.96	0.65
TCP Cubic	10	92.21	70.15	0.37
FillP	10	95.03	72.10	8.31
FillP-Sheep	0	N/A	N/A	N/A
Indigo	10	82.64	40.89	0.03
LEDBAT	10	53.88	48.28	0.03
PCC-Allegro	10	72.04	47.07	1.51
PCC-Expr	10	76.24	60.82	0.89
QUIC Cubic	9	71.95	67.89	2.71
SCReAM	10	0.22	37.23	0.03
Sprout	10	10.34	43.12	0.00
TaoVA-100x	10	77.63	51.37	0.02
TCP Vegas	10	78.59	41.28	0.22
Verus	10	56.49	72.22	26.55
PCC-Vivace	10	73.11	41.38	0.10
WebRTC media	10	2.04	37.41	0.04

Run 1: Statistics of TCP BBR

Start at: 2018-06-29 12:55:29

End at: 2018-06-29 12:55:59

Local clock offset: -5.159 ms

Remote clock offset: 6.071 ms

# Below is generated by plot.py at 2018-06-29 16:51:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 73.050 ms

Loss rate: 6.56%

-- Flow 1:

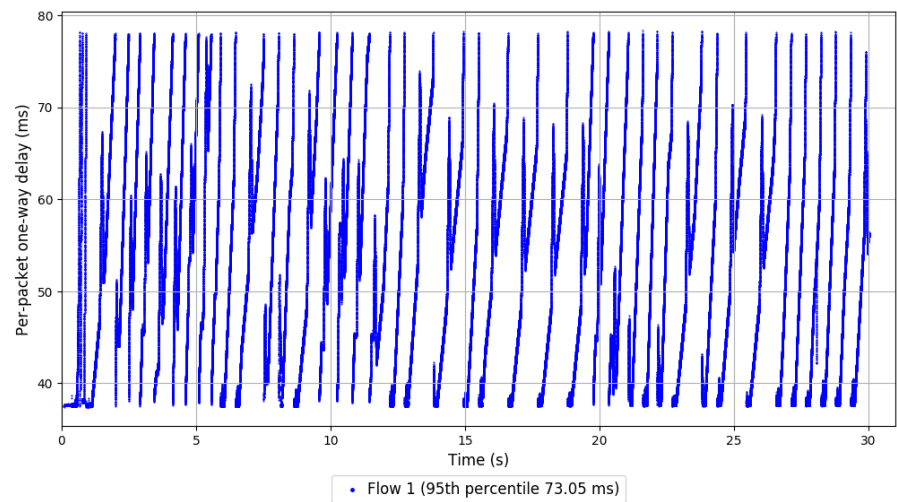
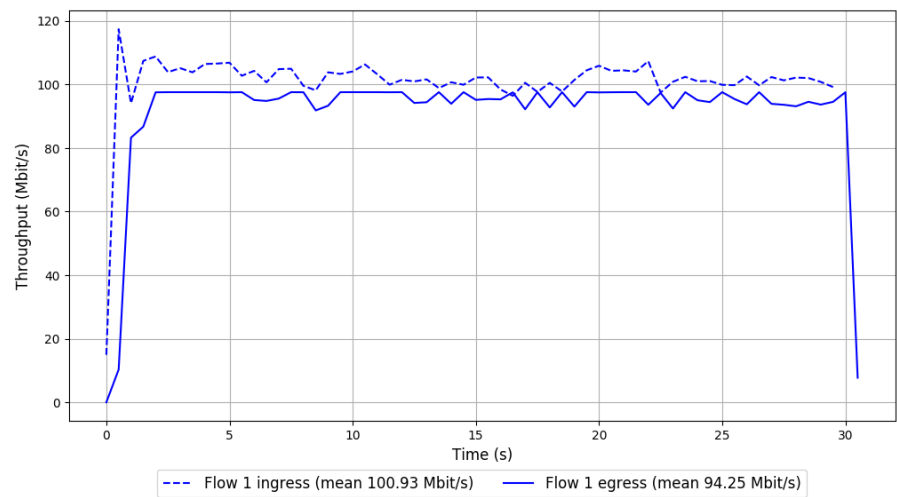
Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 73.050 ms

Loss rate: 6.56%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-29 13:19:09

End at: 2018-06-29 13:19:39

Local clock offset: -3.767 ms

Remote clock offset: 4.429 ms

# Below is generated by plot.py at 2018-06-29 16:51:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.80 Mbit/s

95th percentile per-packet one-way delay: 68.843 ms

Loss rate: 5.01%

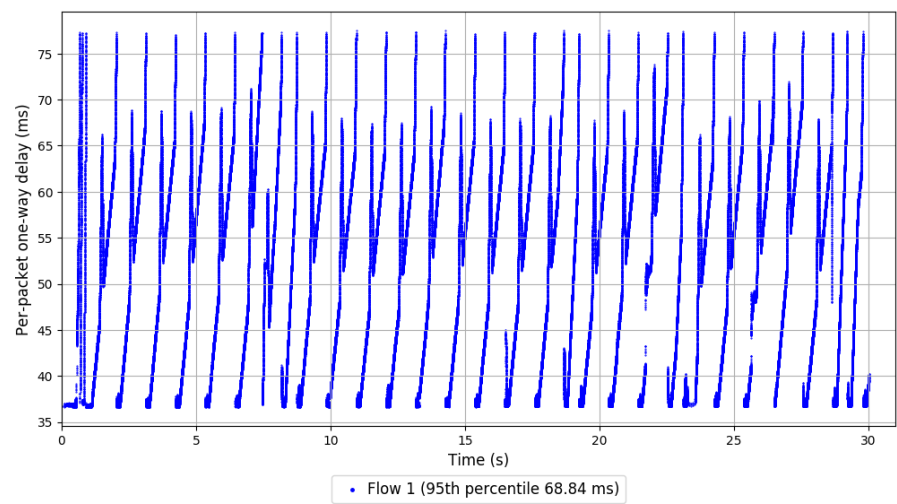
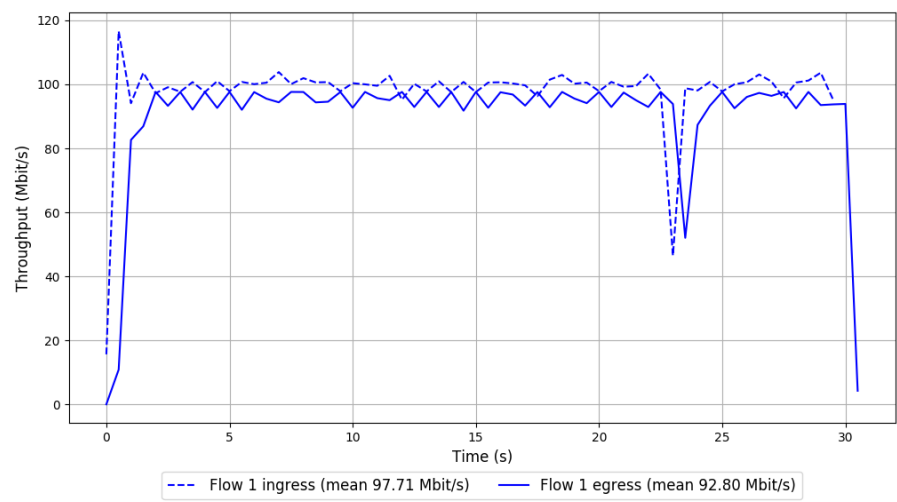
-- Flow 1:

Average throughput: 92.80 Mbit/s

95th percentile per-packet one-way delay: 68.843 ms

Loss rate: 5.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-29 13:42:29

End at: 2018-06-29 13:42:59

Local clock offset: -5.158 ms

Remote clock offset: 2.053 ms

# Below is generated by plot.py at 2018-06-29 16:51:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 67.407 ms

Loss rate: 4.29%

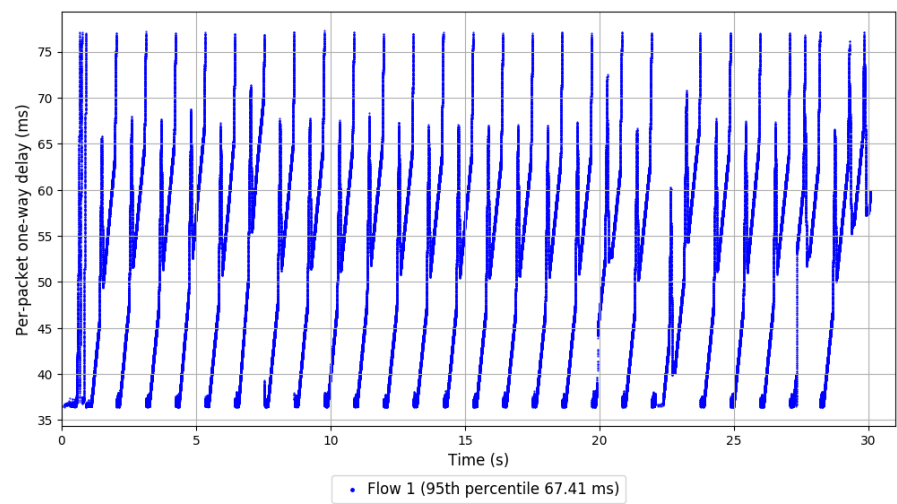
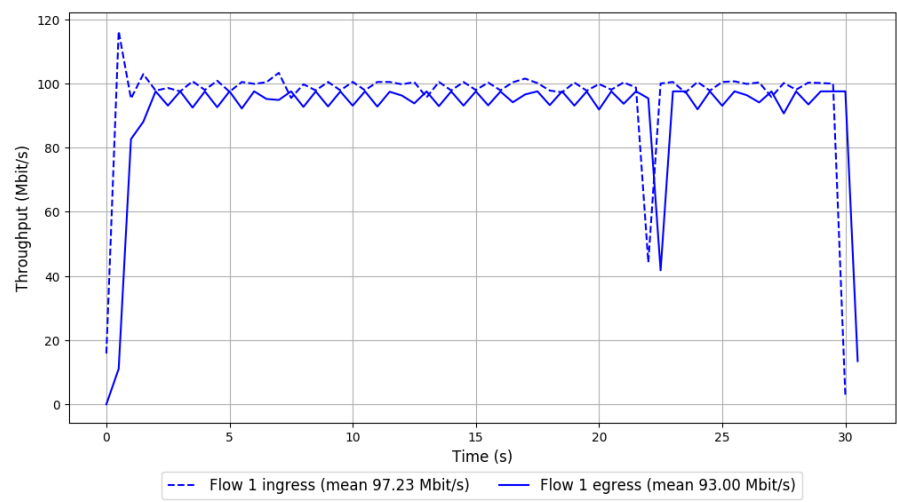
-- Flow 1:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 67.407 ms

Loss rate: 4.29%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-29 14:06:20

End at: 2018-06-29 14:06:50

Local clock offset: -0.267 ms

Remote clock offset: 2.295 ms

# Below is generated by plot.py at 2018-06-29 16:51:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 74.028 ms

Loss rate: 8.00%

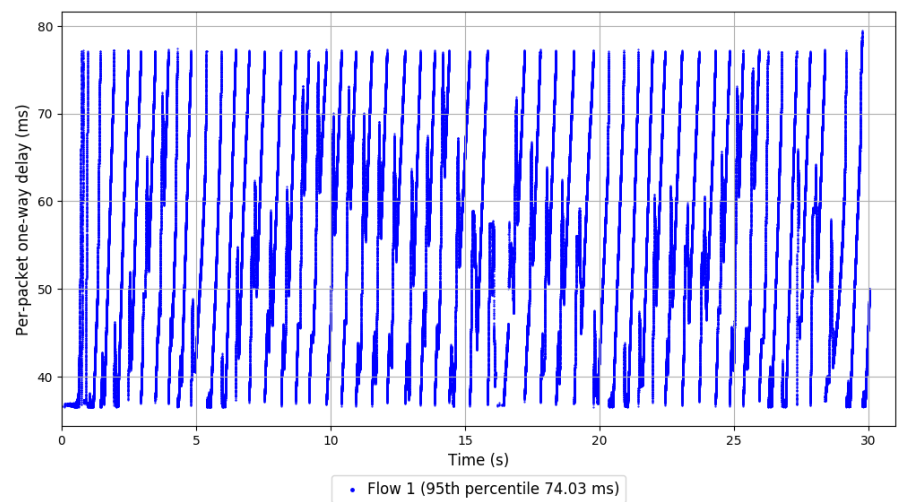
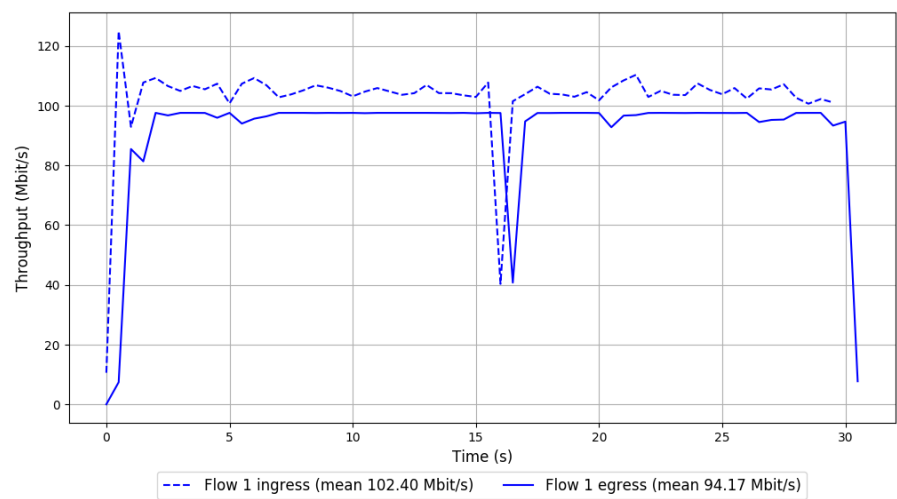
-- Flow 1:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 74.028 ms

Loss rate: 8.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-29 14:30:52

End at: 2018-06-29 14:31:22

Local clock offset: -2.423 ms

Remote clock offset: 1.162 ms

# Below is generated by plot.py at 2018-06-29 16:51:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 73.040 ms

Loss rate: 8.61%

-- Flow 1:

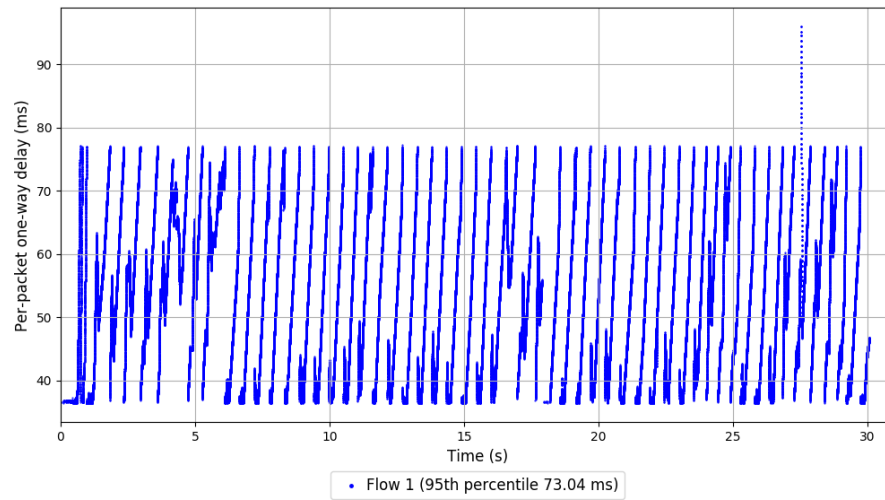
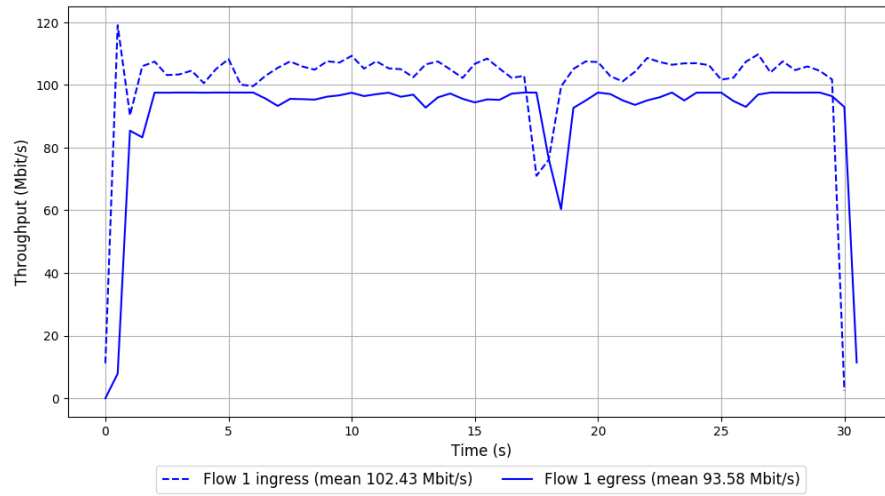
Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 73.040 ms

Loss rate: 8.61%



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



Run 6: Statistics of TCP BBR

Start at: 2018-06-29 14:55:22

End at: 2018-06-29 14:55:52

Local clock offset: -2.461 ms

Remote clock offset: 1.21 ms

# Below is generated by plot.py at 2018-06-29 16:51:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 70.323 ms

Loss rate: 5.74%

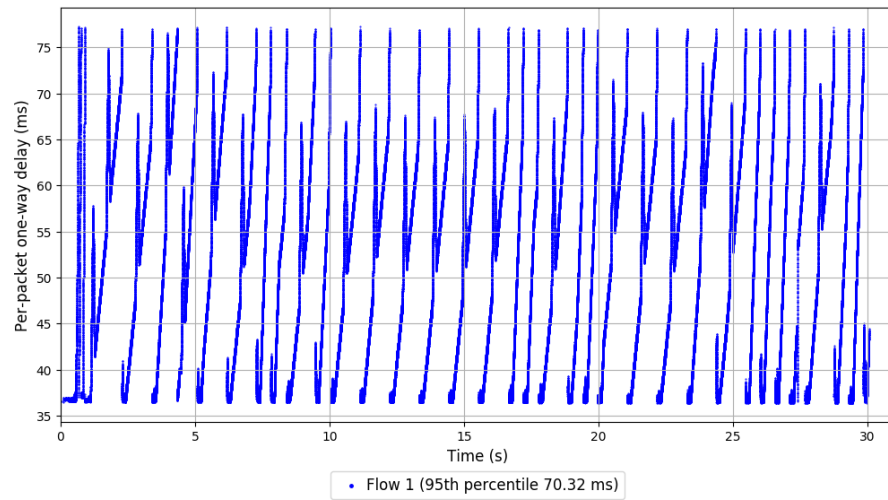
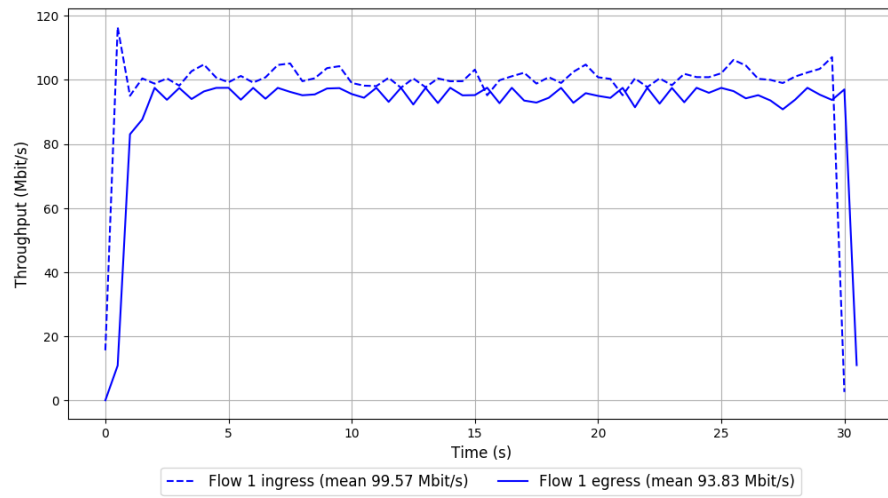
-- Flow 1:

Average throughput: 93.83 Mbit/s

95th percentile per-packet one-way delay: 70.323 ms

Loss rate: 5.74%

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



Run 7: Statistics of TCP BBR

Start at: 2018-06-29 15:19:17

End at: 2018-06-29 15:19:47

Local clock offset: -1.027 ms

Remote clock offset: 3.918 ms

# Below is generated by plot.py at 2018-06-29 16:51:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 72.817 ms

Loss rate: 6.67%

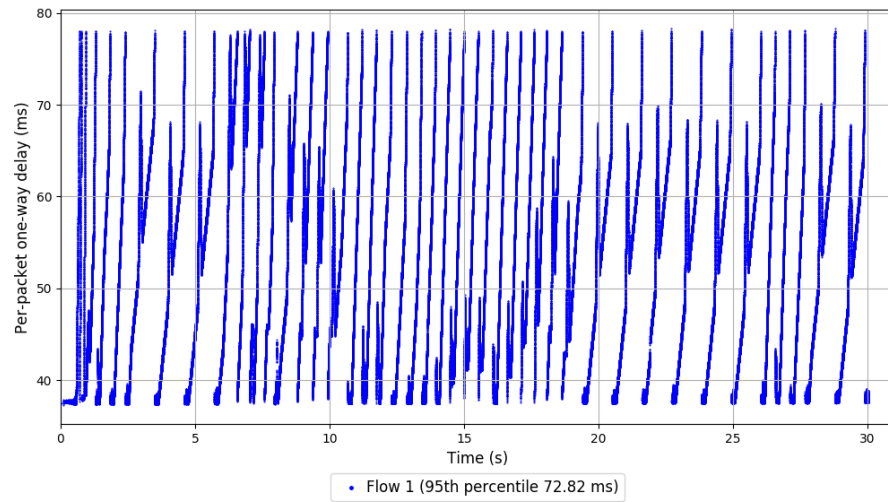
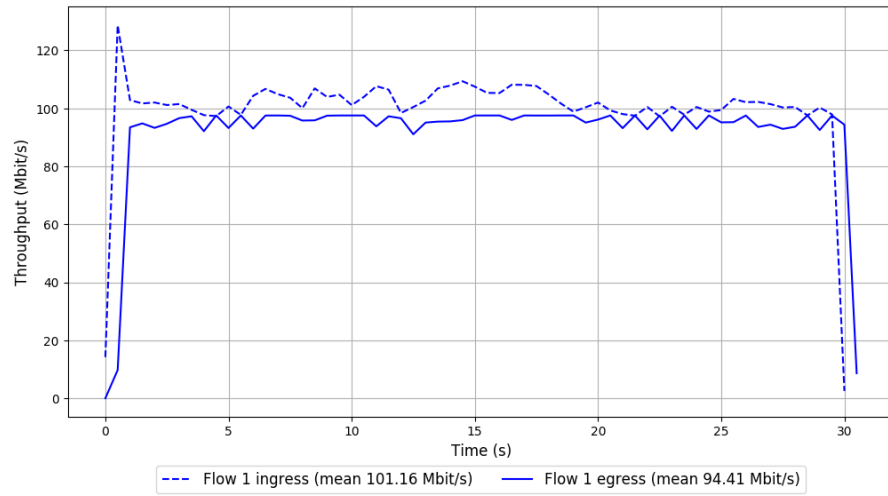
-- Flow 1:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 72.817 ms

Loss rate: 6.67%

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



Run 8: Statistics of TCP BBR

Start at: 2018-06-29 15:43:55

End at: 2018-06-29 15:44:25

Local clock offset: 2.193 ms

Remote clock offset: 4.14 ms

# Below is generated by plot.py at 2018-06-29 16:51:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 72.481 ms

Loss rate: 6.93%

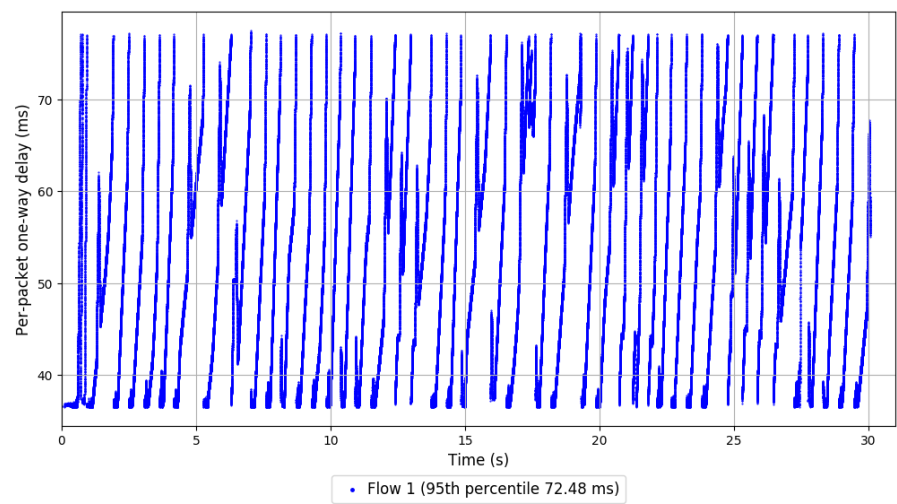
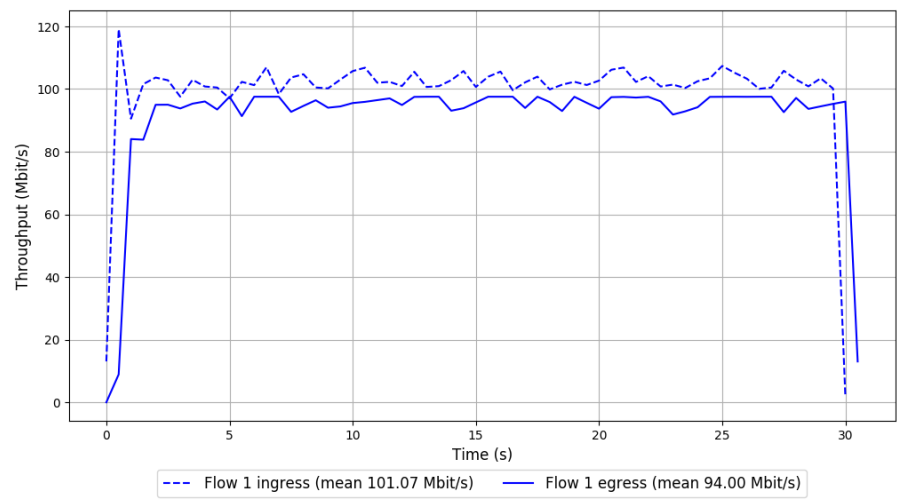
-- Flow 1:

Average throughput: 94.00 Mbit/s

95th percentile per-packet one-way delay: 72.481 ms

Loss rate: 6.93%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-29 16:08:20

End at: 2018-06-29 16:08:50

Local clock offset: -1.685 ms

Remote clock offset: 4.236 ms

# Below is generated by plot.py at 2018-06-29 16:52:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.99 Mbit/s

95th percentile per-packet one-way delay: 70.148 ms

Loss rate: 4.76%

-- Flow 1:

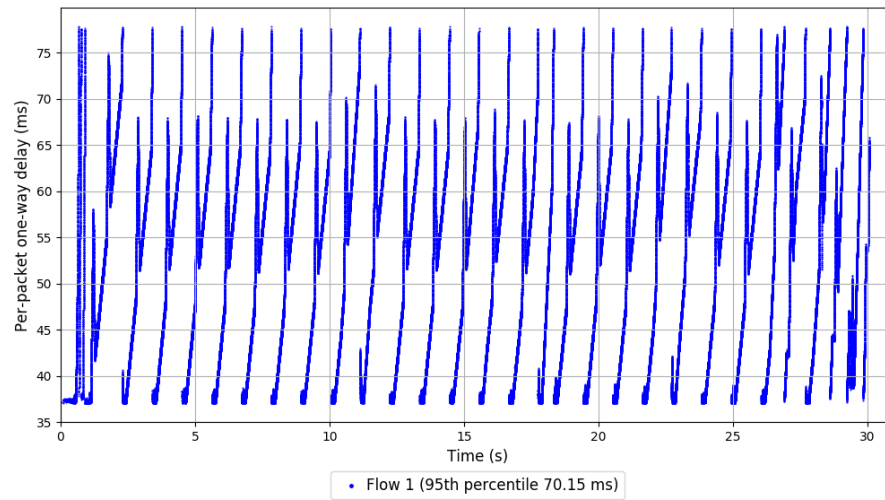
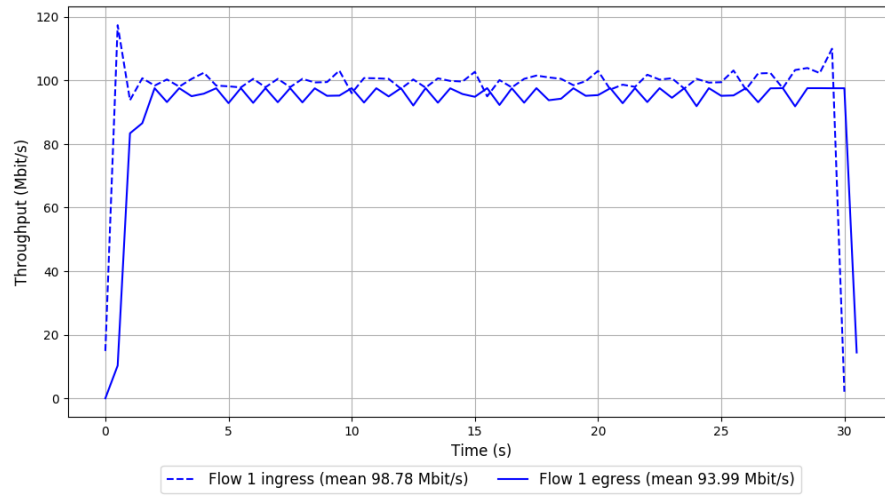
Average throughput: 93.99 Mbit/s

95th percentile per-packet one-way delay: 70.148 ms

Loss rate: 4.76%



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



Run 10: Statistics of TCP BBR

Start at: 2018-06-29 16:32:08

End at: 2018-06-29 16:32:38

Local clock offset: -1.694 ms

Remote clock offset: 4.377 ms

# Below is generated by plot.py at 2018-06-29 16:52:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 67.659 ms

Loss rate: 4.38%

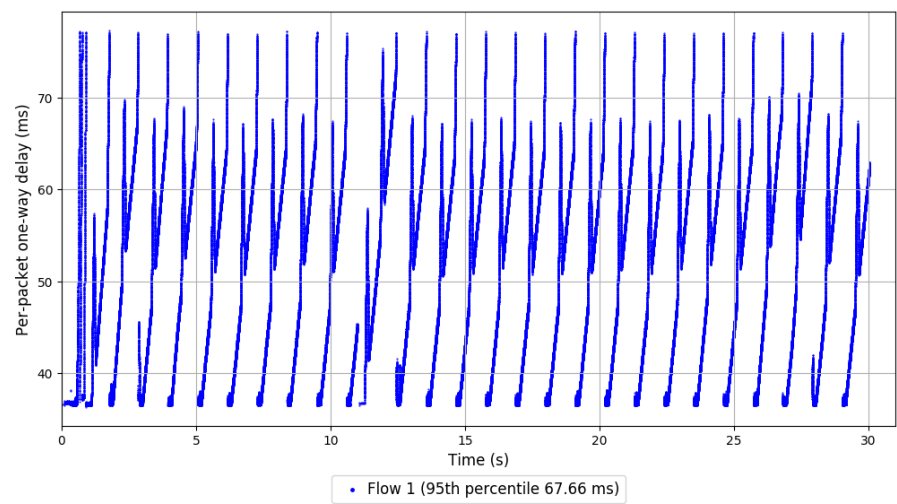
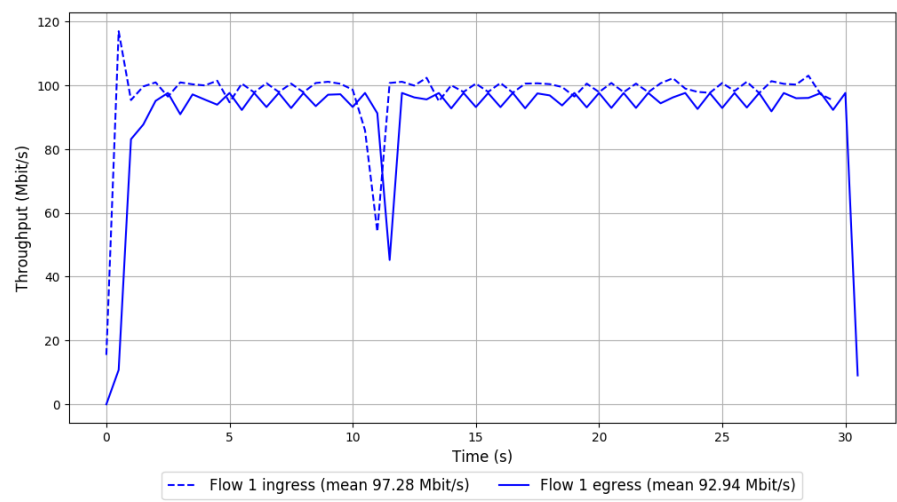
-- Flow 1:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 67.659 ms

Loss rate: 4.38%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-29 13:04:07

End at: 2018-06-29 13:04:37

Local clock offset: -3.431 ms

Remote clock offset: 6.656 ms

# Below is generated by plot.py at 2018-06-29 16:53:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.00 Mbit/s

95th percentile per-packet one-way delay: 45.029 ms

Loss rate: 0.98%

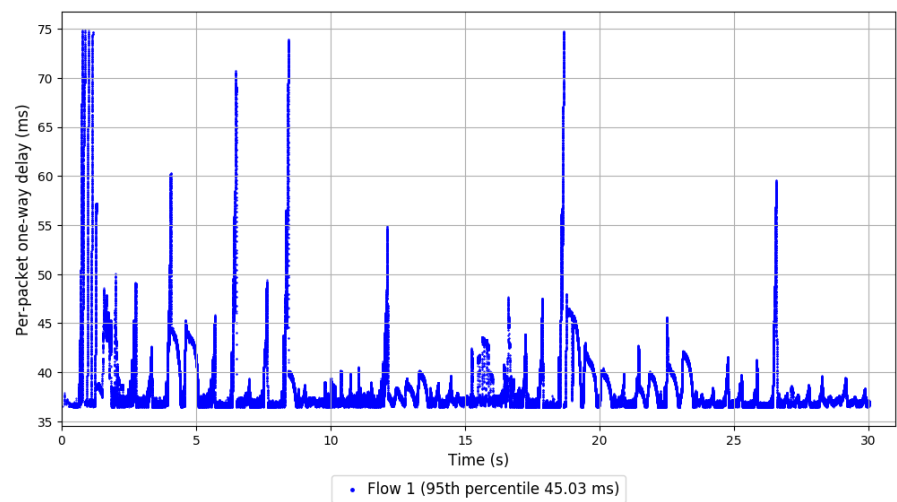
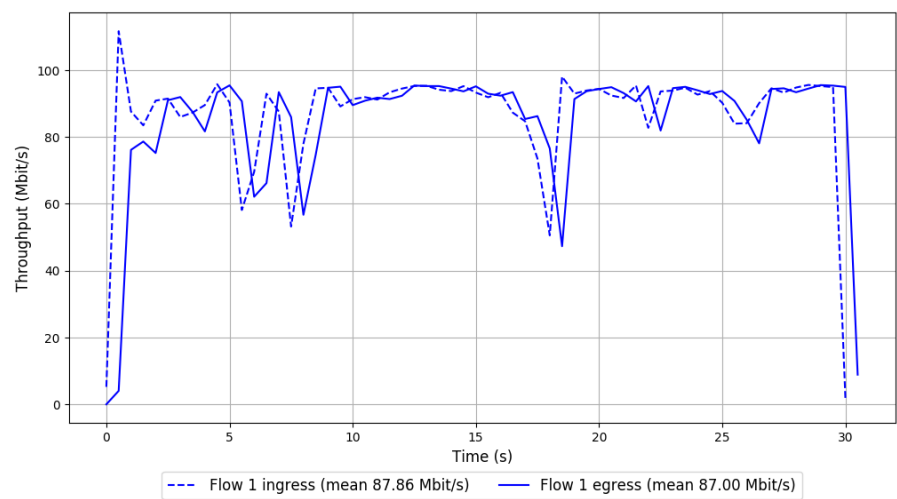
-- Flow 1:

Average throughput: 87.00 Mbit/s

95th percentile per-packet one-way delay: 45.029 ms

Loss rate: 0.98%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-29 13:27:36

End at: 2018-06-29 13:28:07

Local clock offset: -3.757 ms

Remote clock offset: 3.292 ms

# Below is generated by plot.py at 2018-06-29 16:53:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.98 Mbit/s

95th percentile per-packet one-way delay: 48.313 ms

Loss rate: 0.87%

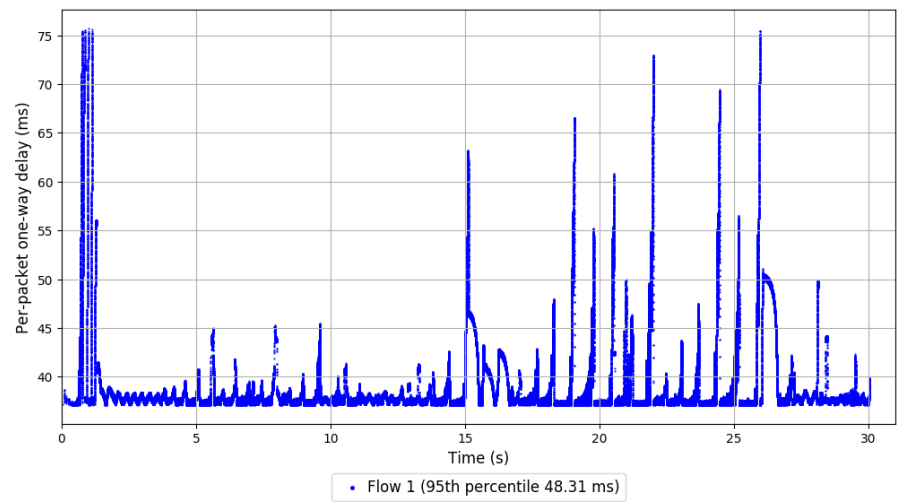
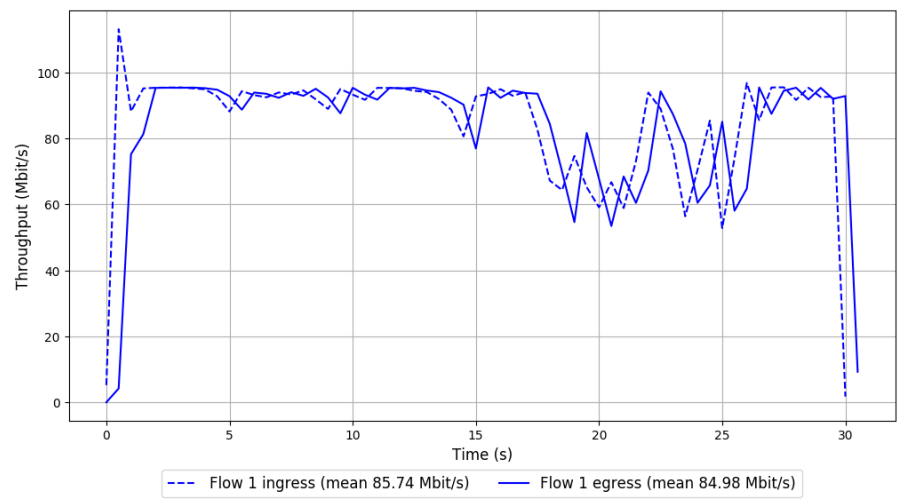
-- Flow 1:

Average throughput: 84.98 Mbit/s

95th percentile per-packet one-way delay: 48.313 ms

Loss rate: 0.87%

Run 2: Report of Copa — Data Link



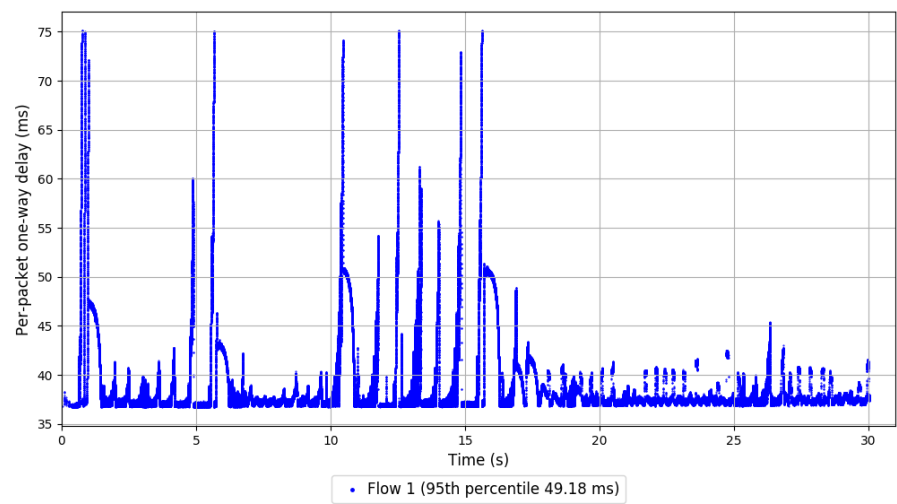
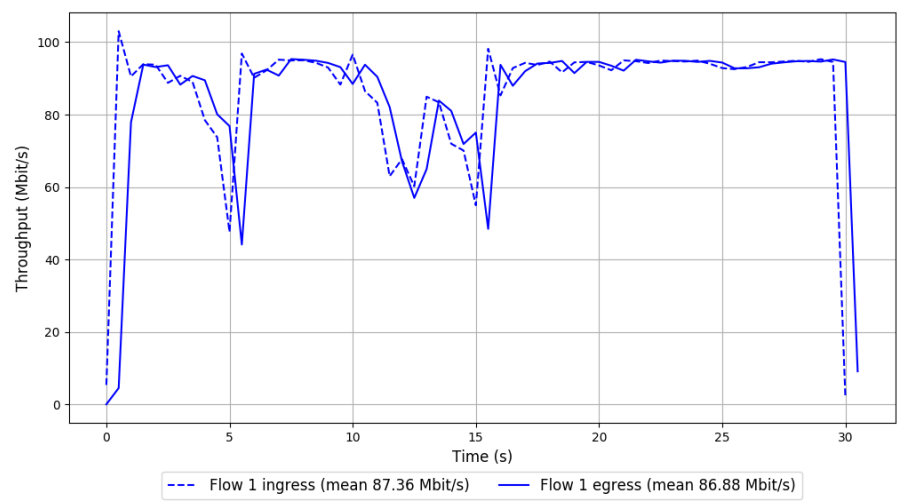
Run 3: Statistics of Copa

Start at: 2018-06-29 13:50:35  
End at: 2018-06-29 13:51:05  
Local clock offset: -2.966 ms  
Remote clock offset: 2.83 ms

# Below is generated by plot.py at 2018-06-29 16:53:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.88 Mbit/s  
95th percentile per-packet one-way delay: 49.184 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 86.88 Mbit/s  
95th percentile per-packet one-way delay: 49.184 ms  
Loss rate: 0.55%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-29 14:15:28

End at: 2018-06-29 14:15:58

Local clock offset: -0.198 ms

Remote clock offset: 2.563 ms

# Below is generated by plot.py at 2018-06-29 16:53:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 26.34 Mbit/s

95th percentile per-packet one-way delay: 39.002 ms

Loss rate: 0.68%

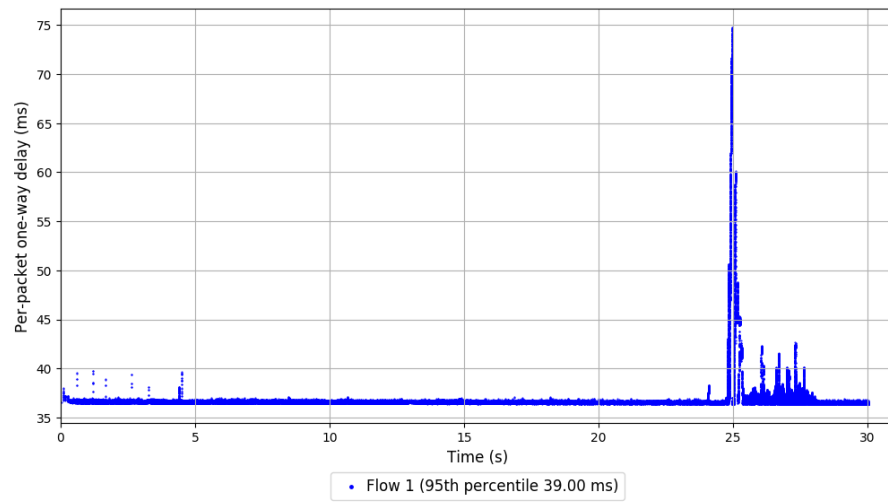
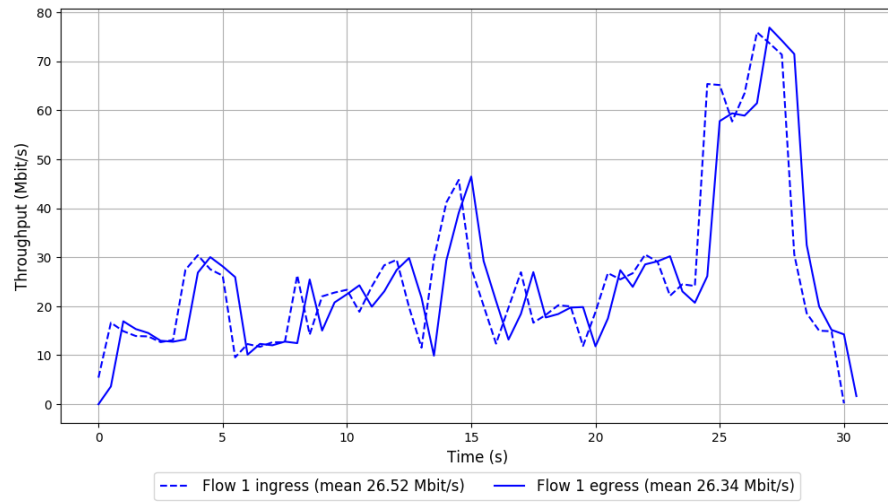
-- Flow 1:

Average throughput: 26.34 Mbit/s

95th percentile per-packet one-way delay: 39.002 ms

Loss rate: 0.68%

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



Run 5: Statistics of Copa

Start at: 2018-06-29 14:39:58

End at: 2018-06-29 14:40:29

Local clock offset: -3.06 ms

Remote clock offset: 0.539 ms

# Below is generated by plot.py at 2018-06-29 16:53:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 40.732 ms

Loss rate: 0.00%

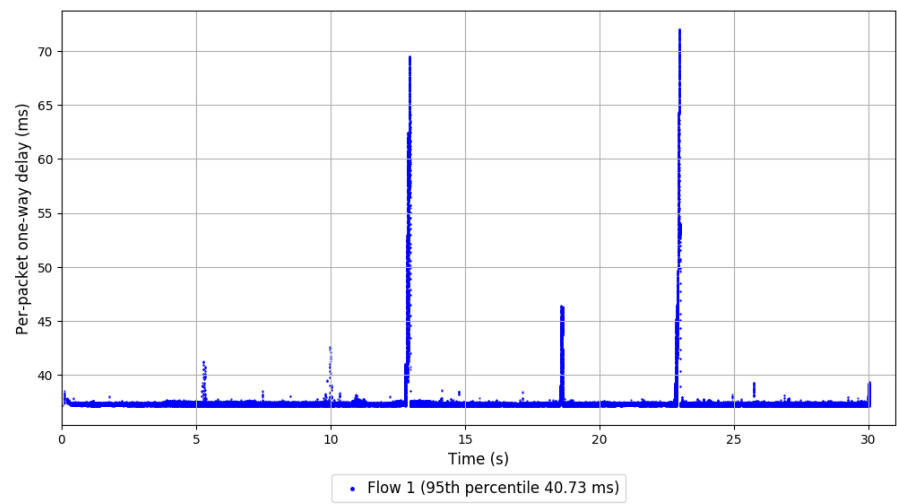
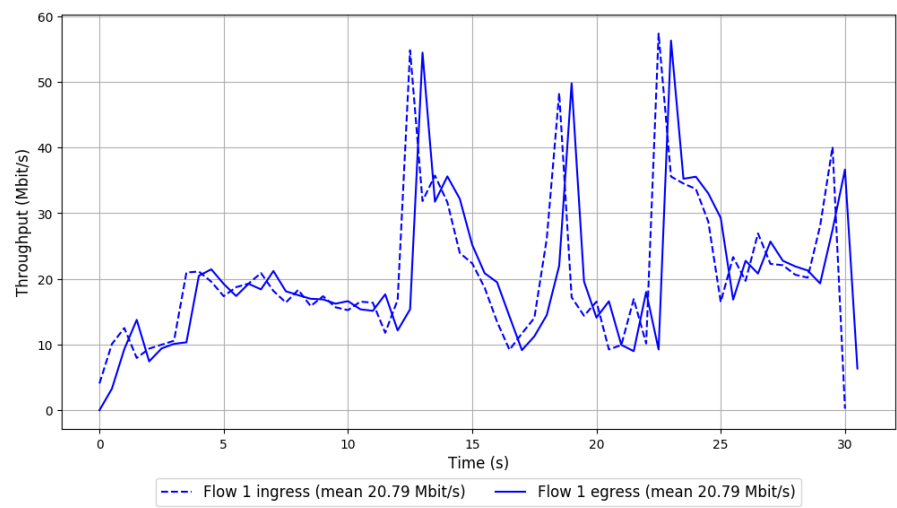
-- Flow 1:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 40.732 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-29 15:03:56

End at: 2018-06-29 15:04:26

Local clock offset: -2.288 ms

Remote clock offset: 3.005 ms

# Below is generated by plot.py at 2018-06-29 16:53:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.72 Mbit/s

95th percentile per-packet one-way delay: 51.125 ms

Loss rate: 0.43%

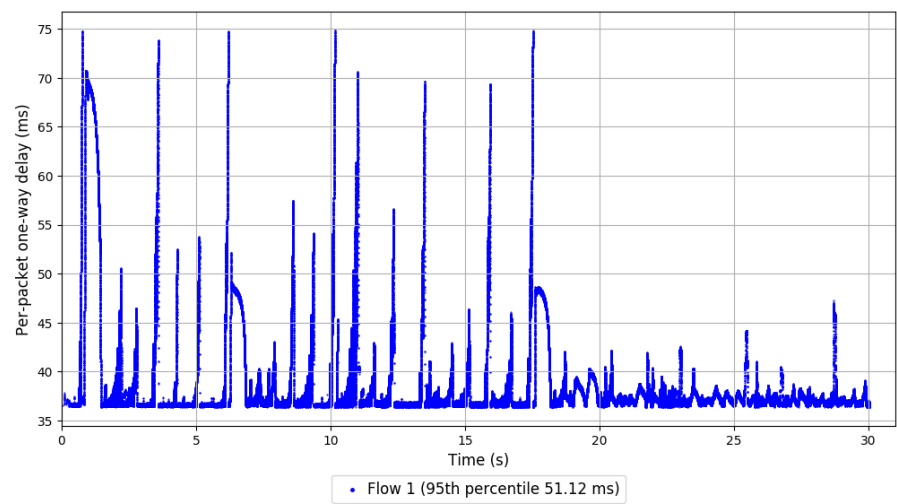
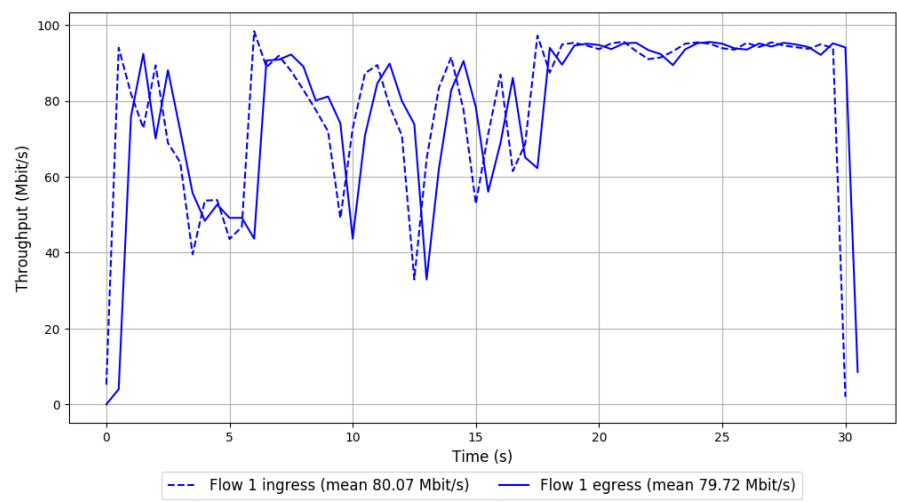
-- Flow 1:

Average throughput: 79.72 Mbit/s

95th percentile per-packet one-way delay: 51.125 ms

Loss rate: 0.43%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-29 15:28:00

End at: 2018-06-29 15:28:30

Local clock offset: 0.815 ms

Remote clock offset: 4.092 ms

# Below is generated by plot.py at 2018-06-29 16:53:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 56.734 ms

Loss rate: 0.43%

-- Flow 1:

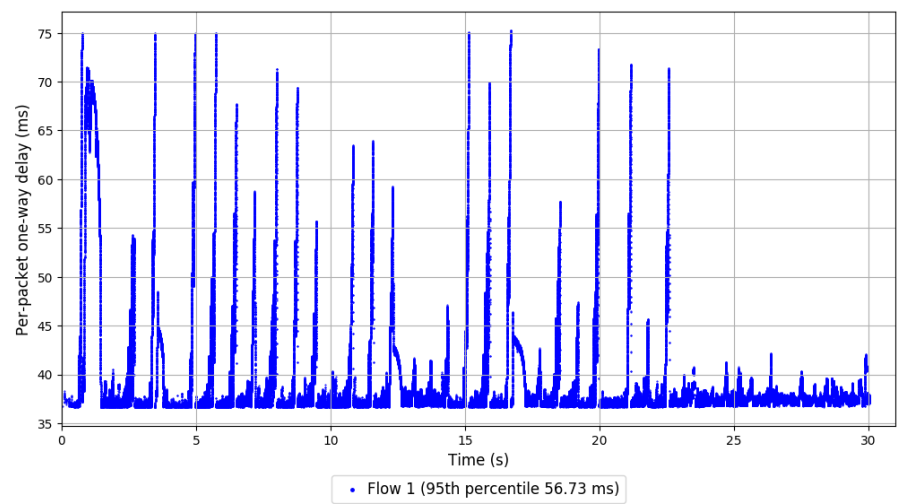
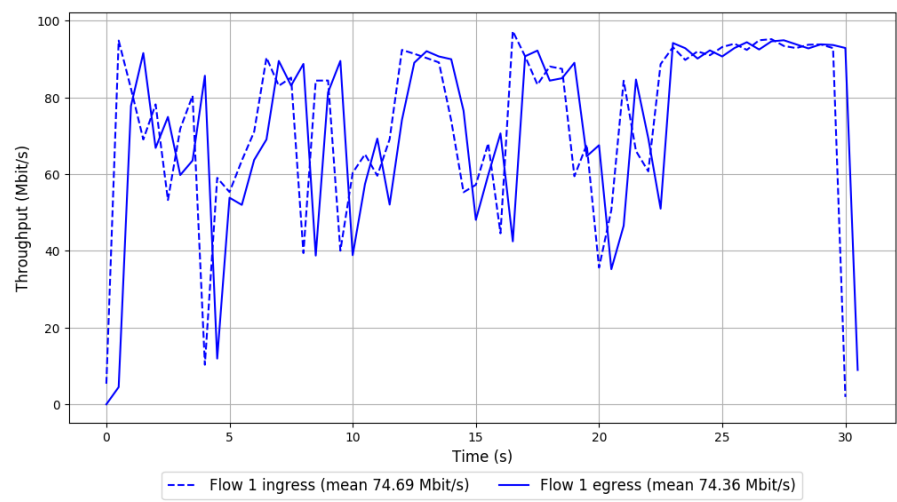
Average throughput: 74.36 Mbit/s

95th percentile per-packet one-way delay: 56.734 ms

Loss rate: 0.43%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-29 15:53:18

End at: 2018-06-29 15:53:48

Local clock offset: -0.095 ms

Remote clock offset: 4.253 ms

# Below is generated by plot.py at 2018-06-29 16:54:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.01 Mbit/s

95th percentile per-packet one-way delay: 56.061 ms

Loss rate: 0.88%

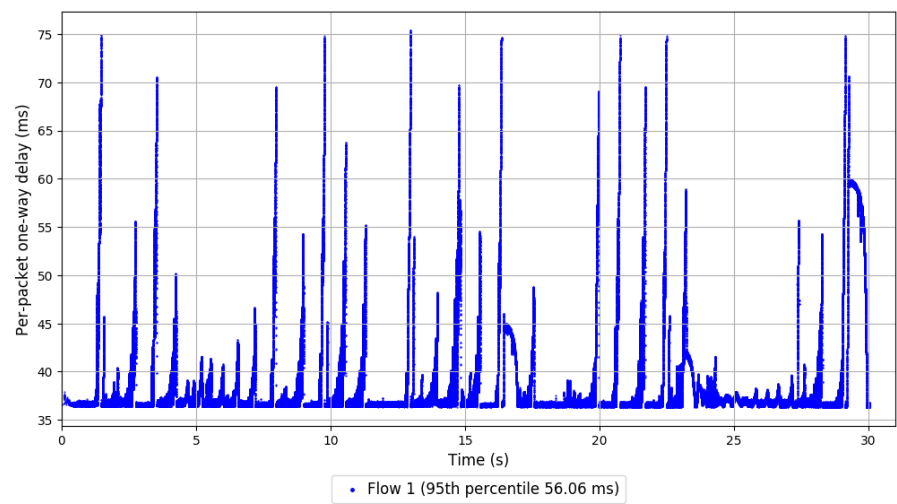
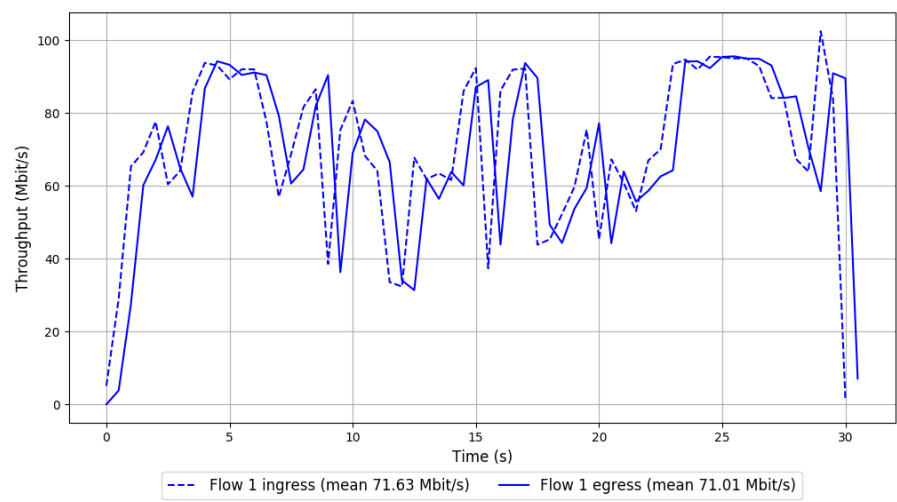
-- Flow 1:

Average throughput: 71.01 Mbit/s

95th percentile per-packet one-way delay: 56.061 ms

Loss rate: 0.88%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-29 16:17:08

End at: 2018-06-29 16:17:38

Local clock offset: -1.936 ms

Remote clock offset: 4.292 ms

# Below is generated by plot.py at 2018-06-29 16:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 50.301 ms

Loss rate: 0.35%

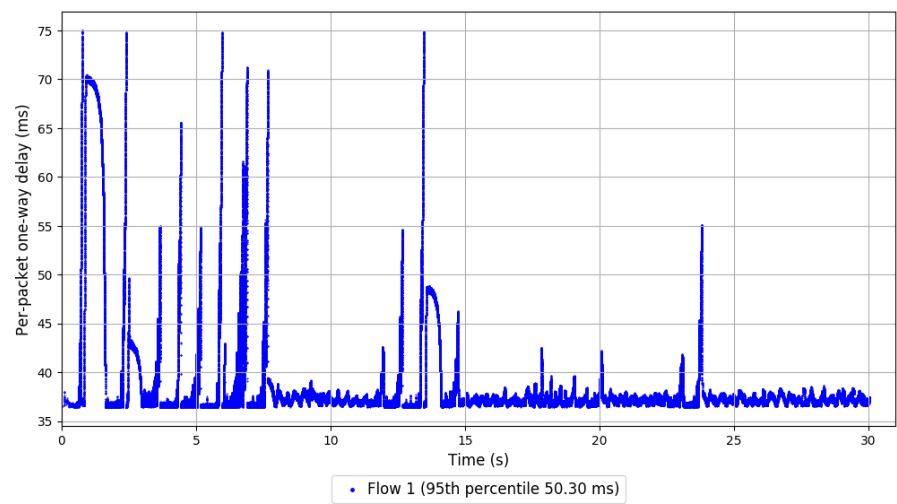
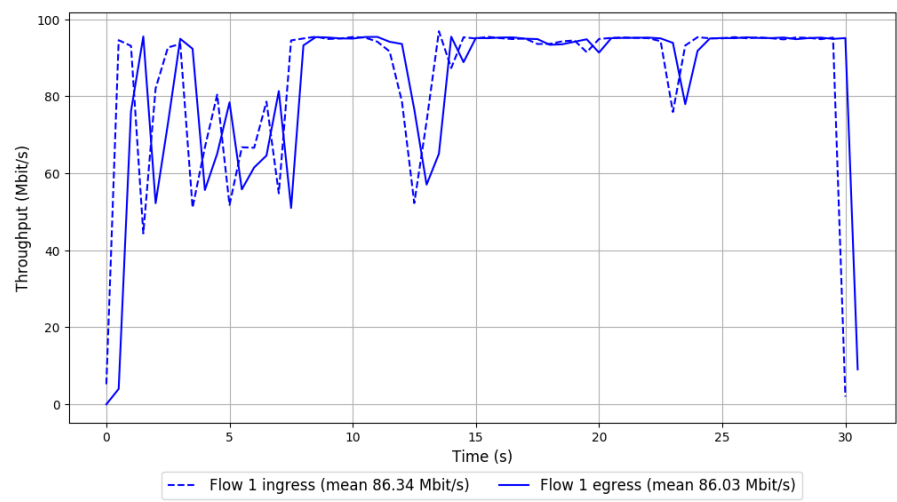
-- Flow 1:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 50.301 ms

Loss rate: 0.35%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-29 16:40:14

End at: 2018-06-29 16:40:44

Local clock offset: -1.772 ms

Remote clock offset: 5.963 ms

# Below is generated by plot.py at 2018-06-29 16:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 63.136 ms

Loss rate: 1.32%

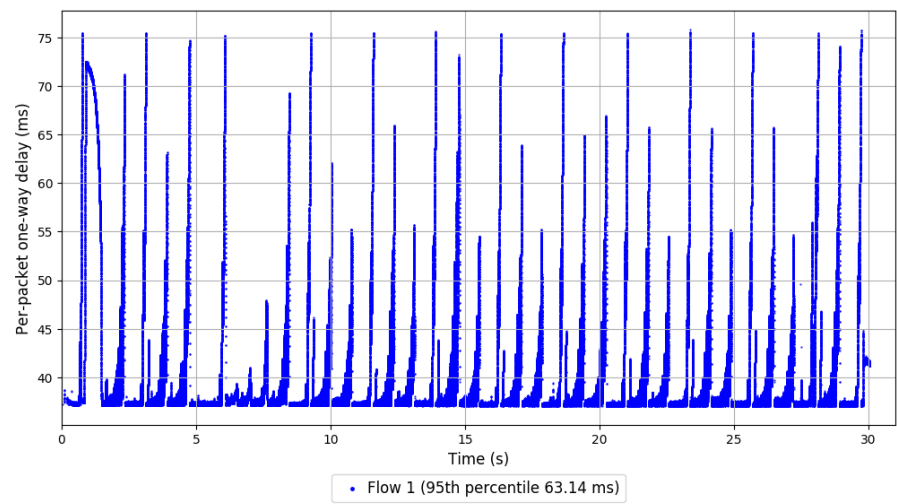
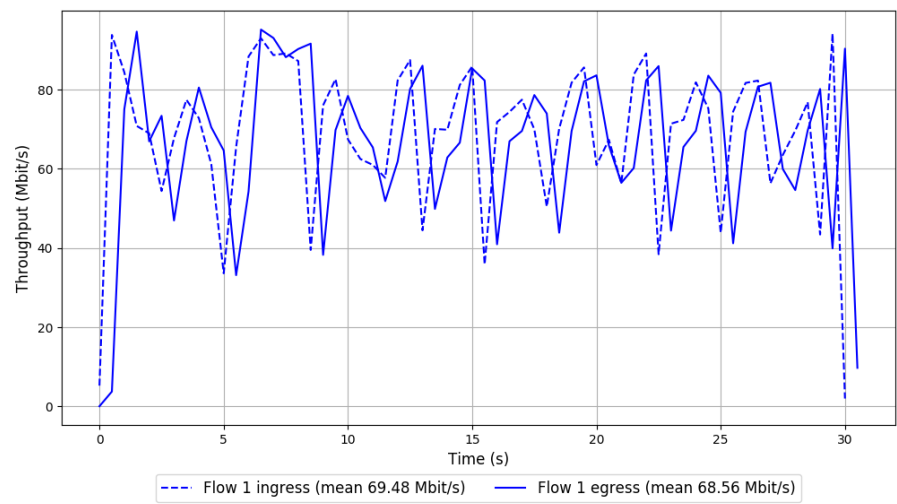
-- Flow 1:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 63.136 ms

Loss rate: 1.32%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-29 13:06:58

End at: 2018-06-29 13:07:28

Local clock offset: -3.474 ms

Remote clock offset: 6.815 ms

# Below is generated by plot.py at 2018-06-29 16:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 66.100 ms

Loss rate: 0.11%

-- Flow 1:

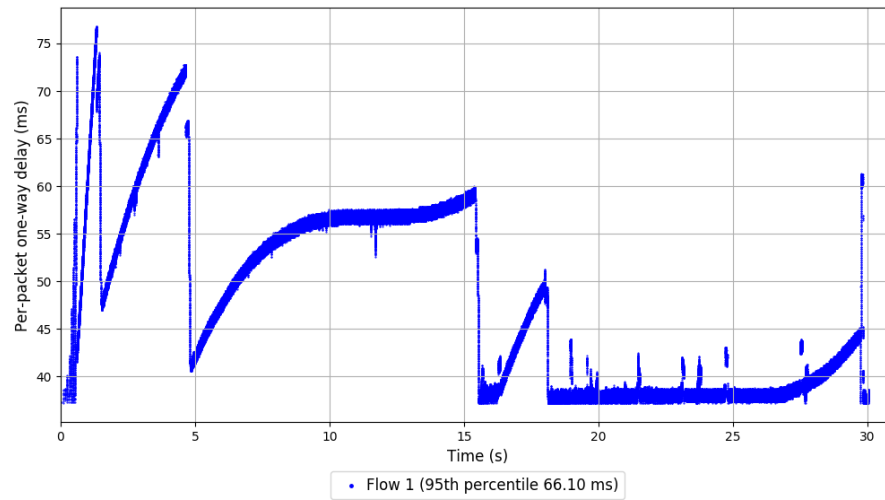
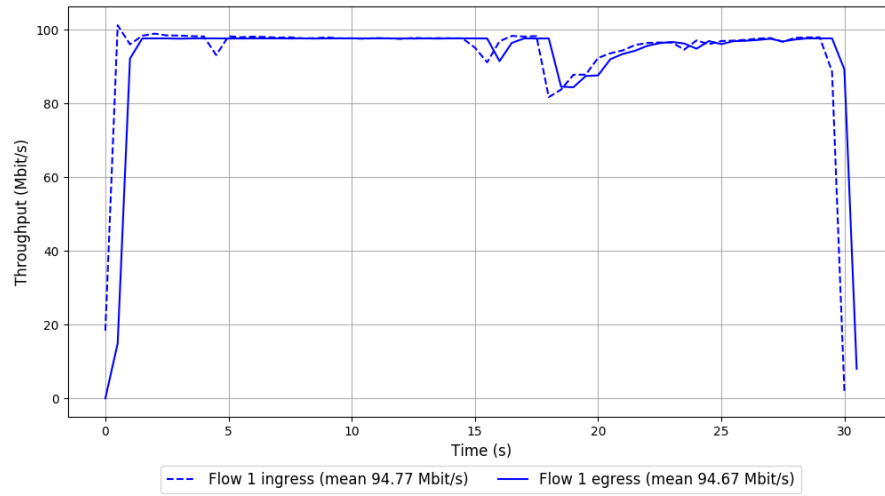
Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 66.100 ms

Loss rate: 0.11%



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



Run 2: Statistics of TCP Cubic

Start at: 2018-06-29 13:30:20

End at: 2018-06-29 13:30:50

Local clock offset: -3.936 ms

Remote clock offset: 3.103 ms

# Below is generated by plot.py at 2018-06-29 16:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 75.246 ms

Loss rate: 0.45%

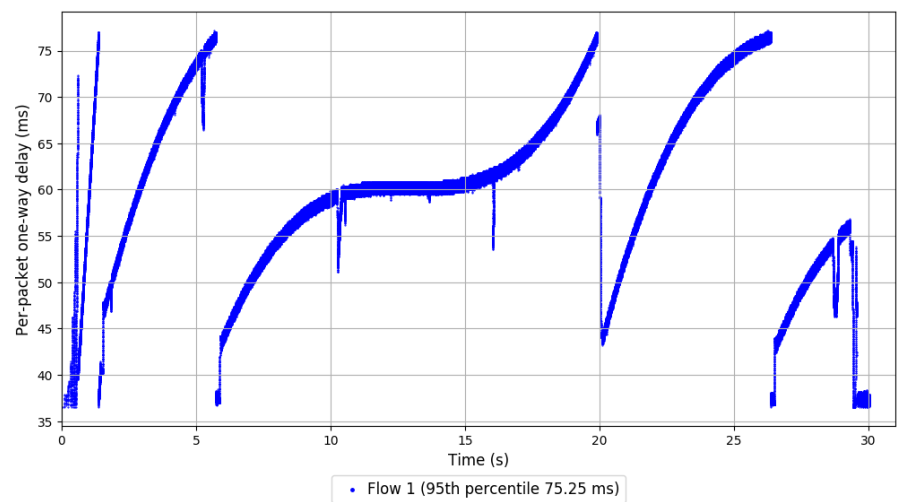
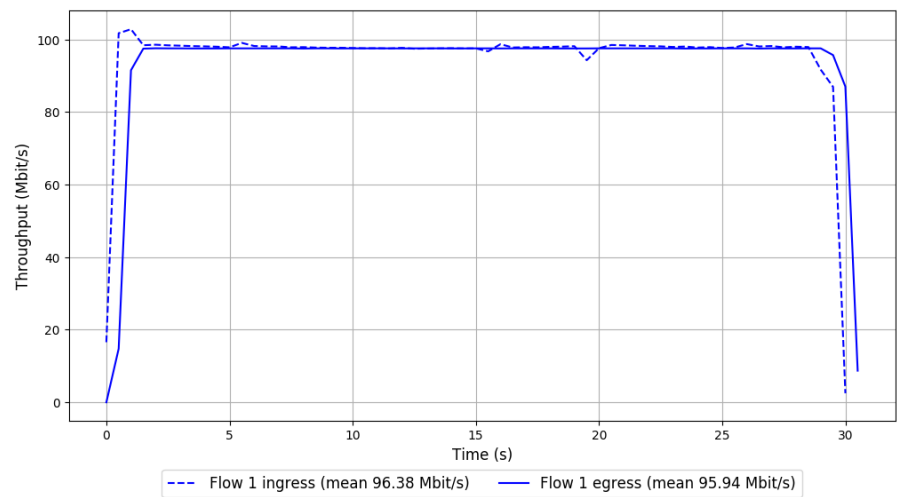
-- Flow 1:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 75.246 ms

Loss rate: 0.45%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-29 13:53:29

End at: 2018-06-29 13:53:59

Local clock offset: -2.028 ms

Remote clock offset: 3.048 ms

# Below is generated by plot.py at 2018-06-29 16:54:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 73.116 ms

Loss rate: 0.31%

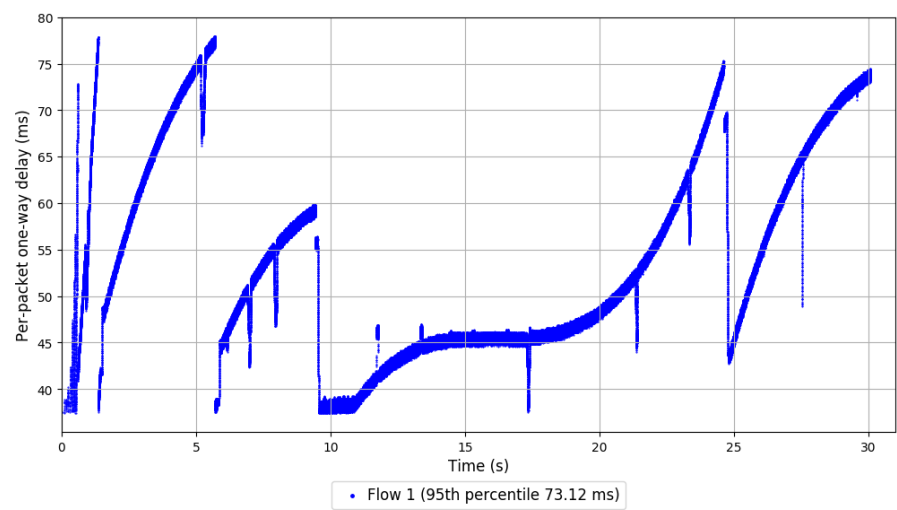
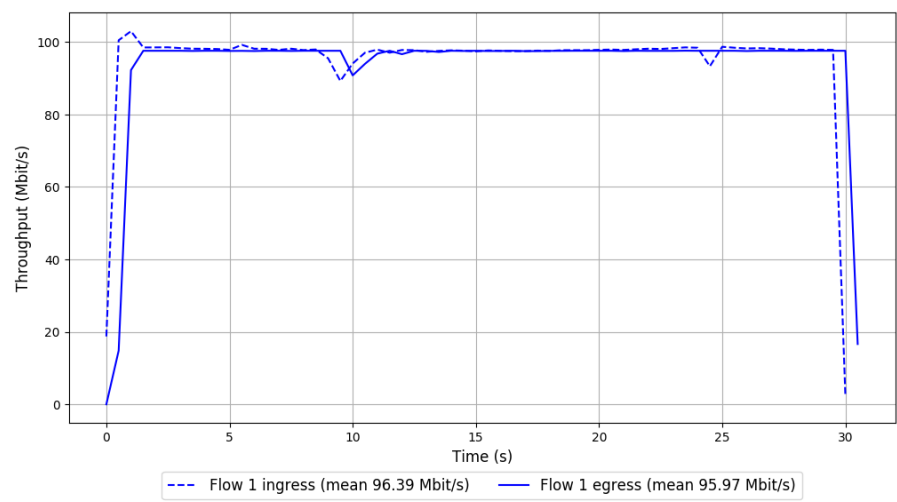
-- Flow 1:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 73.116 ms

Loss rate: 0.31%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-29 14:18:28

End at: 2018-06-29 14:18:58

Local clock offset: -0.815 ms

Remote clock offset: 3.051 ms

# Below is generated by plot.py at 2018-06-29 16:54:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 73.367 ms

Loss rate: 0.54%

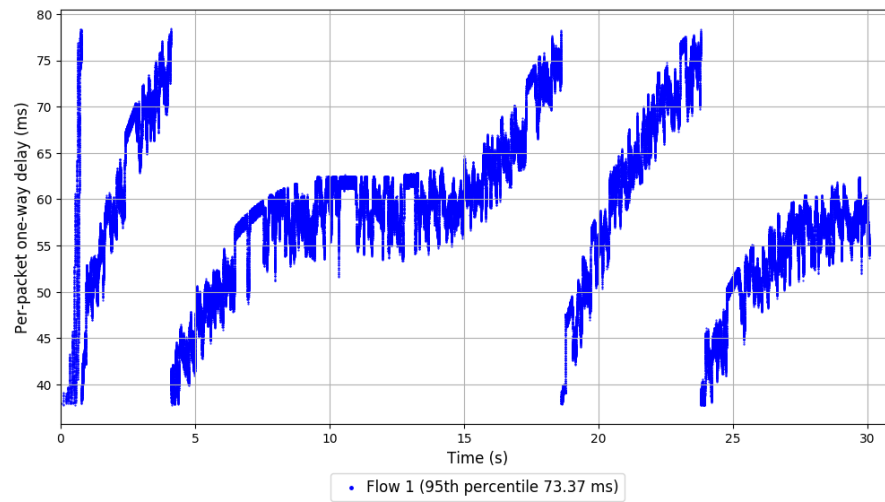
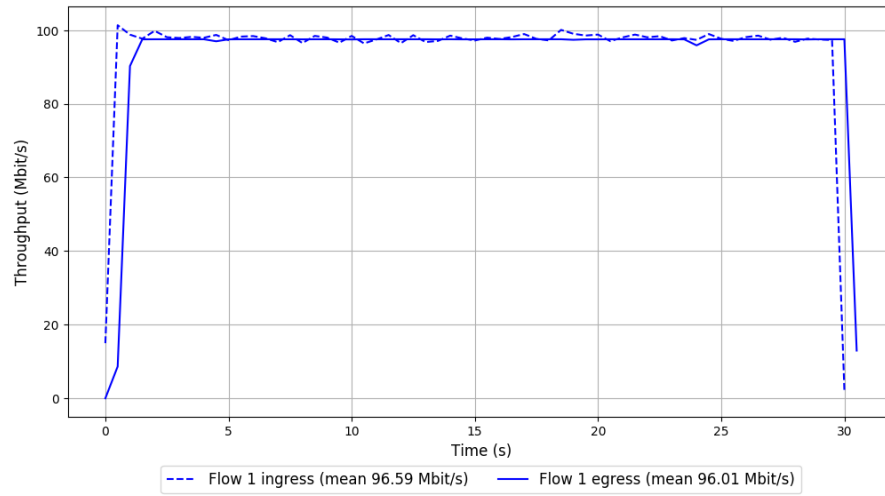
-- Flow 1:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 73.367 ms

Loss rate: 0.54%

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



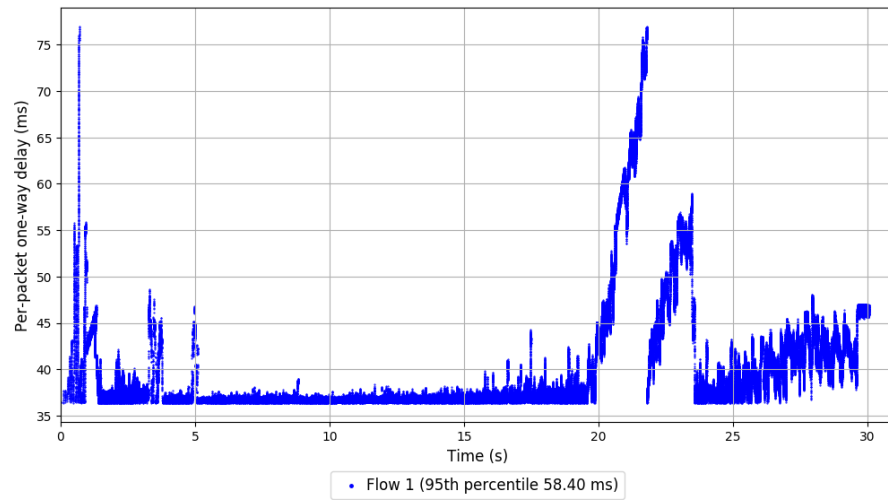
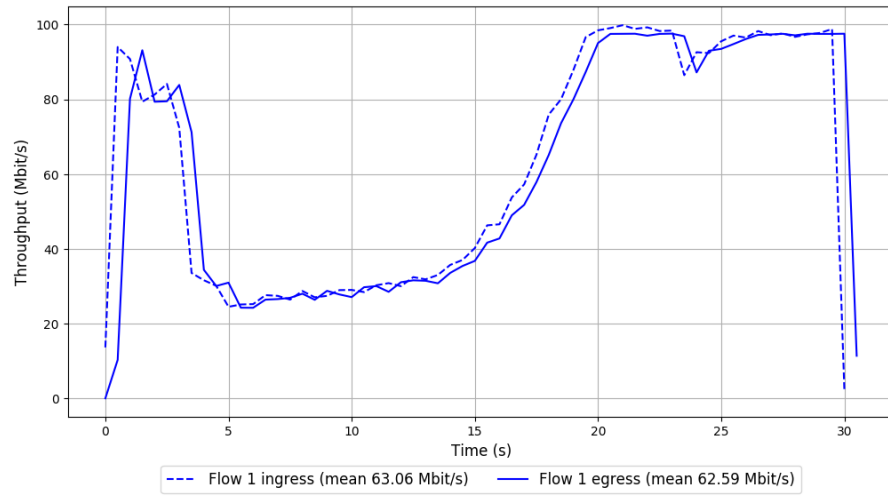
Run 5: Statistics of TCP Cubic

Start at: 2018-06-29 14:42:57  
End at: 2018-06-29 14:43:27  
Local clock offset: -3.309 ms  
Remote clock offset: -0.527 ms

# Below is generated by plot.py at 2018-06-29 16:54:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.59 Mbit/s  
95th percentile per-packet one-way delay: 58.399 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 62.59 Mbit/s  
95th percentile per-packet one-way delay: 58.399 ms  
Loss rate: 0.71%



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



Run 6: Statistics of TCP Cubic

Start at: 2018-06-29 15:06:53

End at: 2018-06-29 15:07:23

Local clock offset: -2.28 ms

Remote clock offset: 3.303 ms

# Below is generated by plot.py at 2018-06-29 16:55:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 66.469 ms

Loss rate: 0.15%

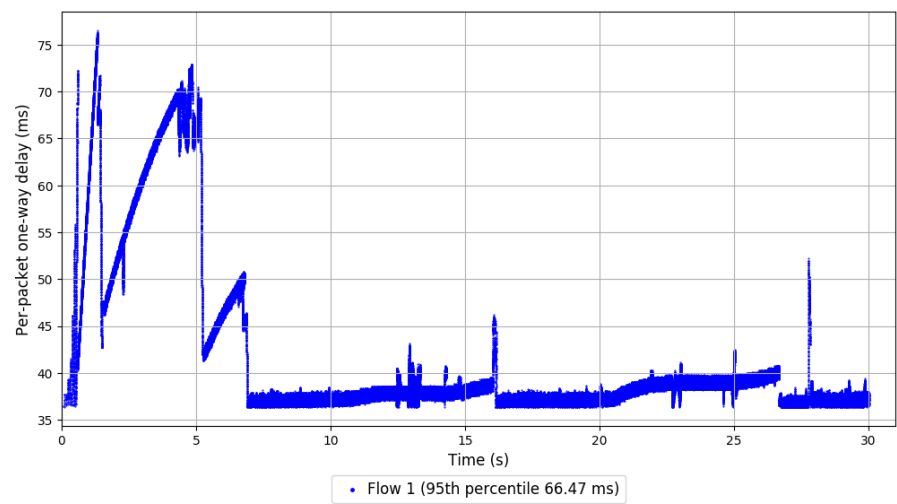
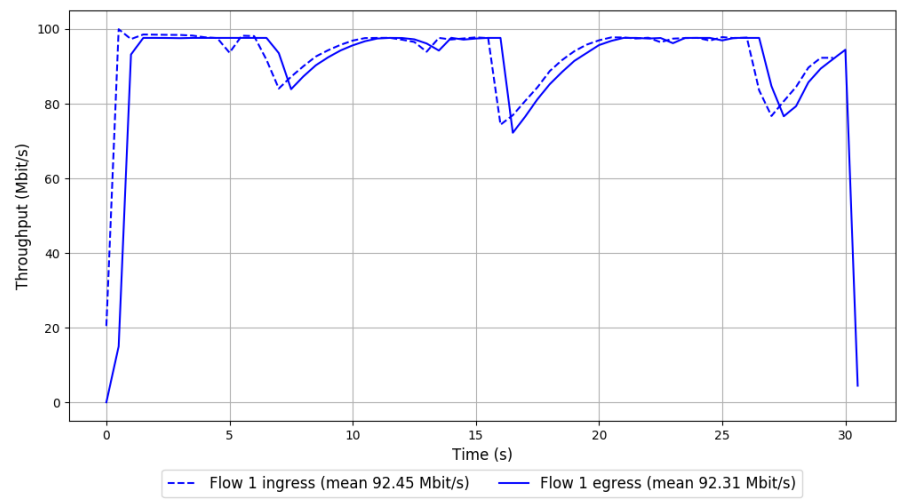
-- Flow 1:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 66.469 ms

Loss rate: 0.15%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-29 15:30:59

End at: 2018-06-29 15:31:29

Local clock offset: 1.291 ms

Remote clock offset: 4.17 ms

# Below is generated by plot.py at 2018-06-29 16:55:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 73.163 ms

Loss rate: 0.33%

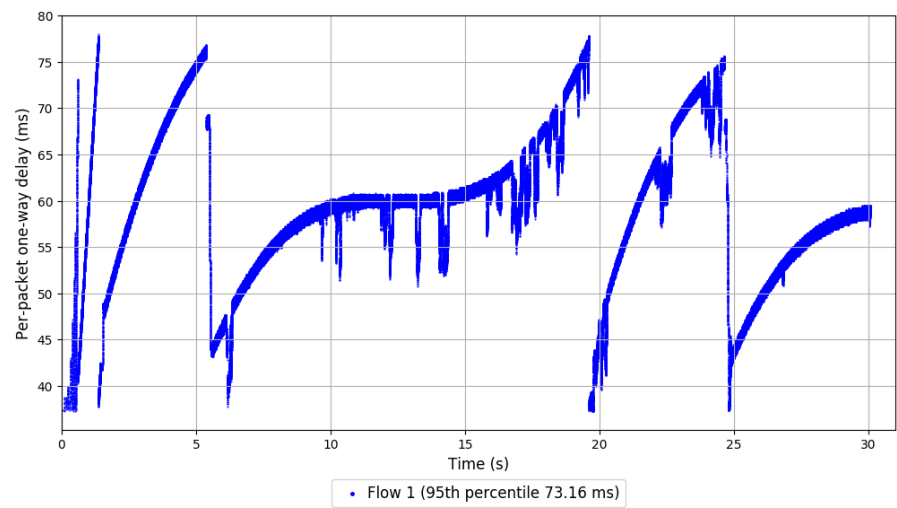
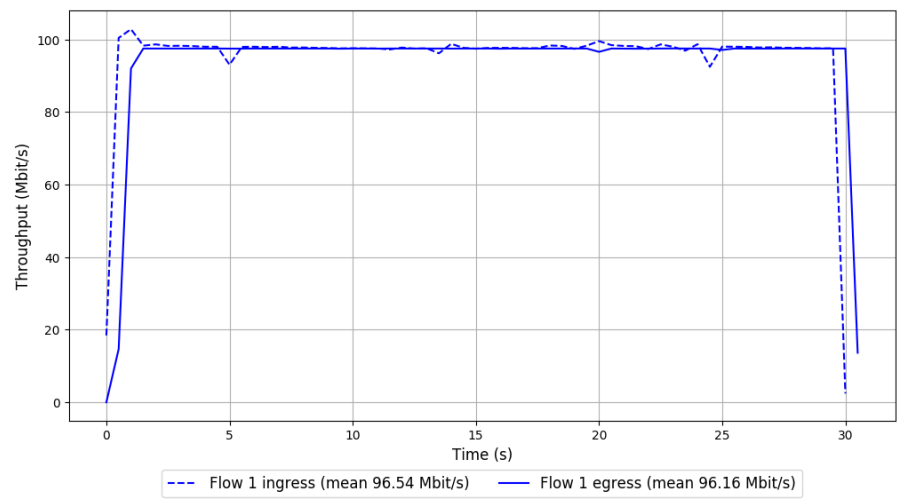
-- Flow 1:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 73.163 ms

Loss rate: 0.33%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-29 15:56:11

End at: 2018-06-29 15:56:41

Local clock offset: -0.63 ms

Remote clock offset: 4.26 ms

# Below is generated by plot.py at 2018-06-29 16:55:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 74.892 ms

Loss rate: 0.54%

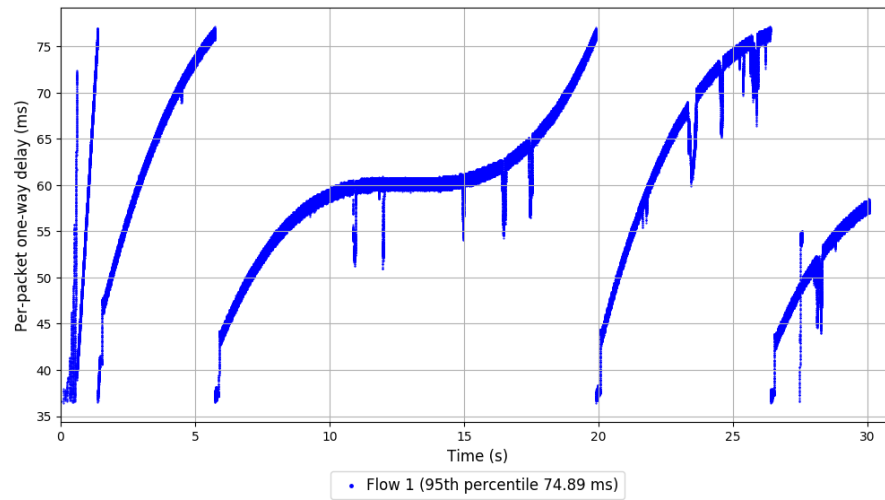
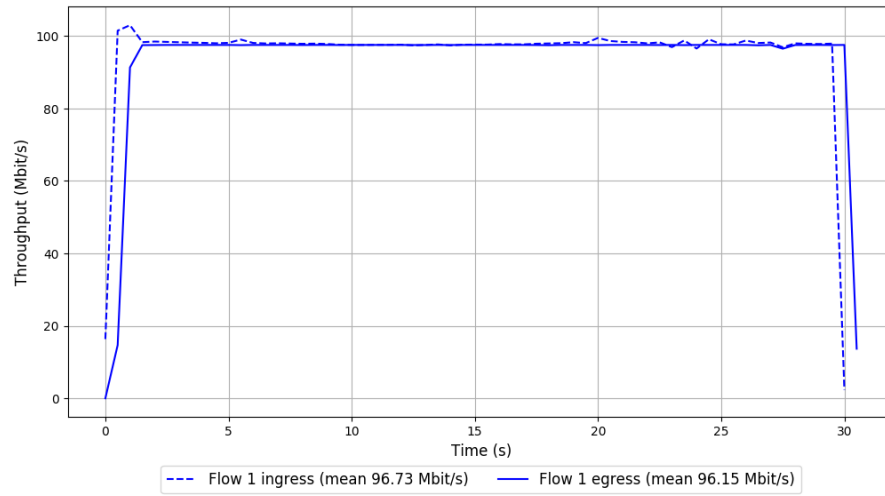
-- Flow 1:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 74.892 ms

Loss rate: 0.54%

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



Run 9: Statistics of TCP Cubic

Start at: 2018-06-29 16:20:06

End at: 2018-06-29 16:20:36

Local clock offset: -1.783 ms

Remote clock offset: 4.349 ms

# Below is generated by plot.py at 2018-06-29 16:55:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 70.500 ms

Loss rate: 0.27%

-- Flow 1:

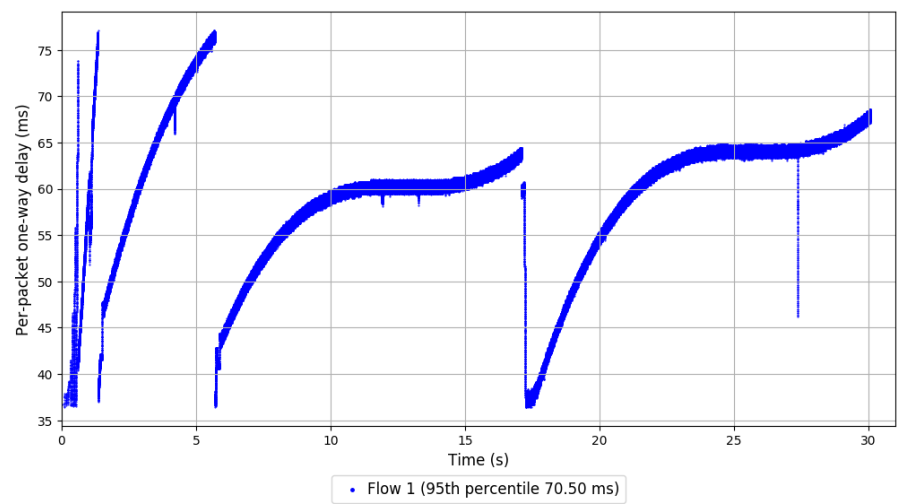
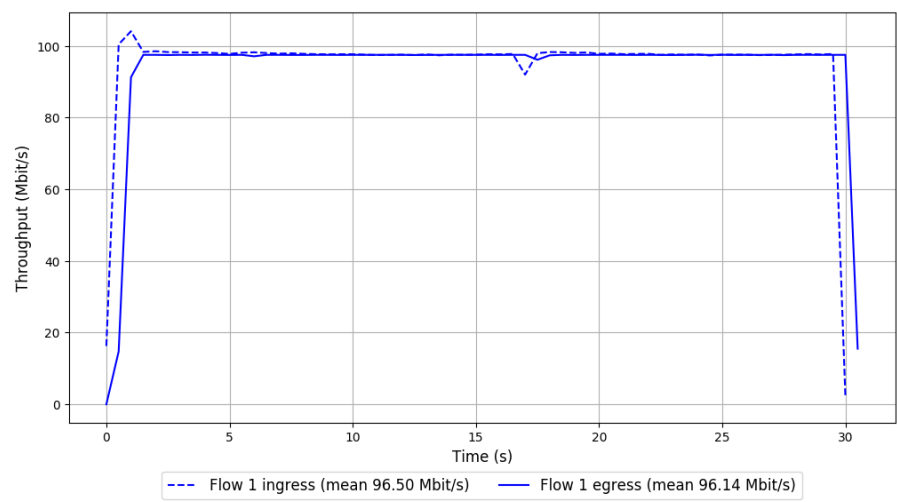
Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 70.500 ms

Loss rate: 0.27%



Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-29 16:43:04

End at: 2018-06-29 16:43:34

Local clock offset: -1.715 ms

Remote clock offset: 6.489 ms

# Below is generated by plot.py at 2018-06-29 16:56:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 70.202 ms

Loss rate: 0.31%

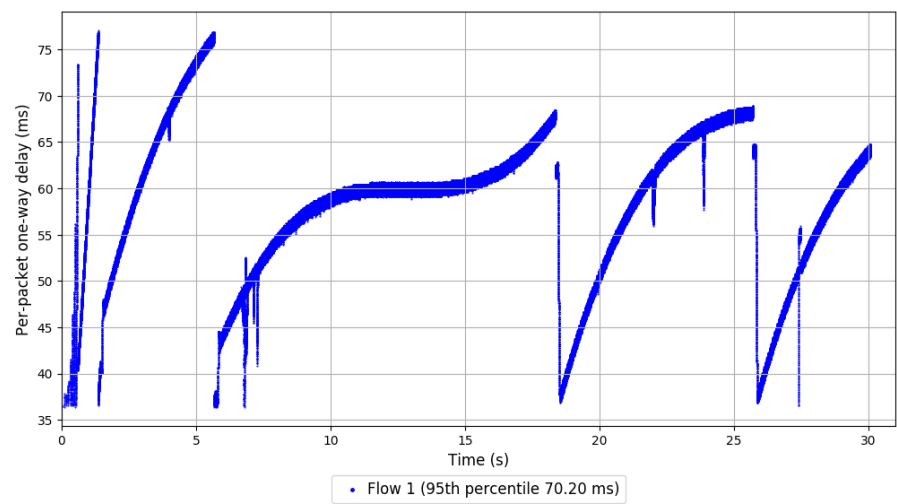
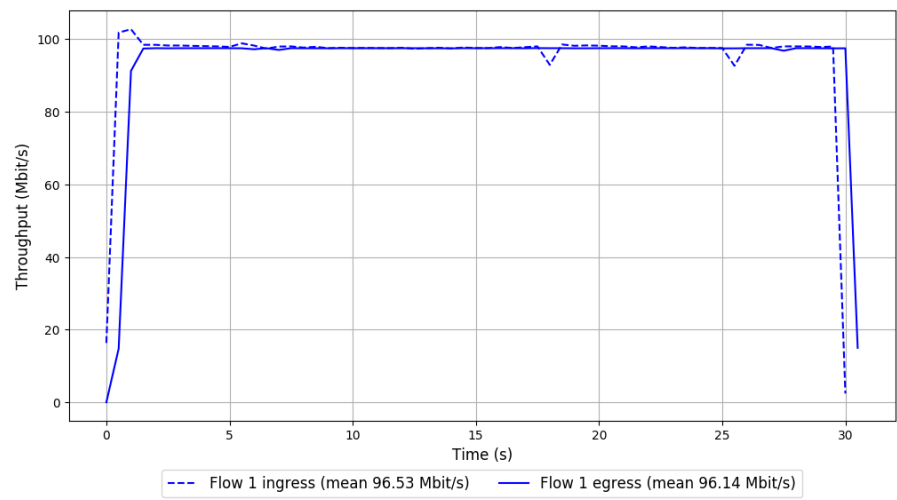
-- Flow 1:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 70.202 ms

Loss rate: 0.31%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-29 13:05:37

End at: 2018-06-29 13:06:07

Local clock offset: -3.382 ms

Remote clock offset: 6.716 ms

# Below is generated by plot.py at 2018-06-29 16:56:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.13 Mbit/s

95th percentile per-packet one-way delay: 71.100 ms

Loss rate: 8.60%

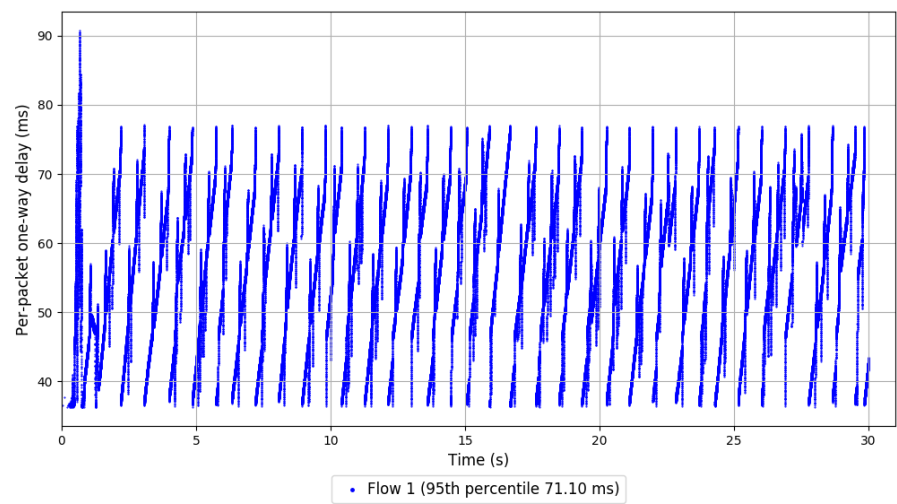
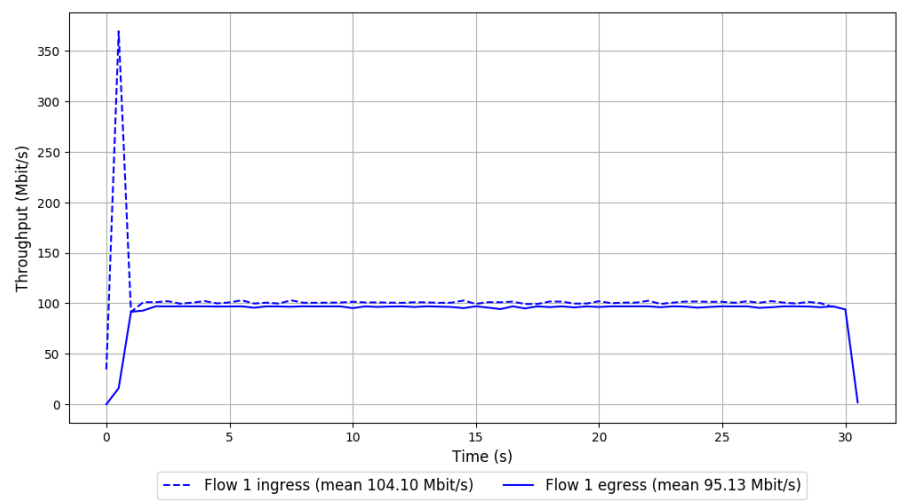
-- Flow 1:

Average throughput: 95.13 Mbit/s

95th percentile per-packet one-way delay: 71.100 ms

Loss rate: 8.60%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-29 13:29:00

End at: 2018-06-29 13:29:30

Local clock offset: -3.843 ms

Remote clock offset: 3.157 ms

# Below is generated by plot.py at 2018-06-29 16:56:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 72.824 ms

Loss rate: 8.67%

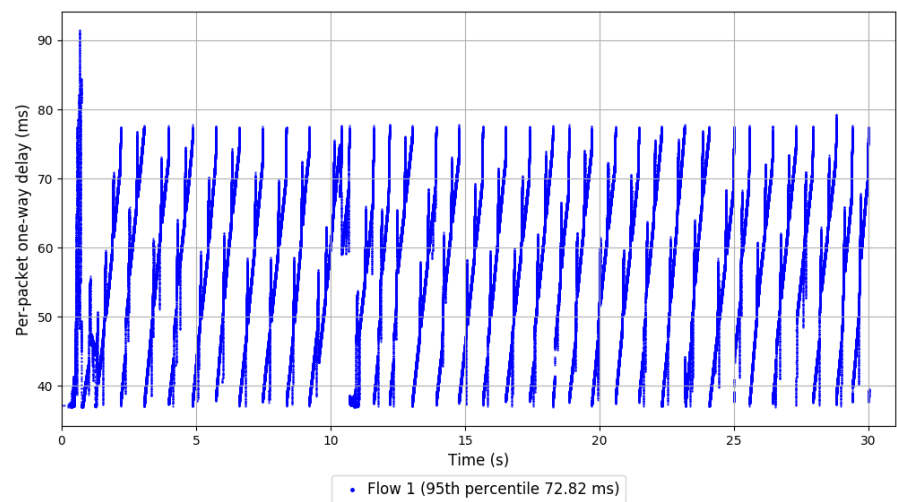
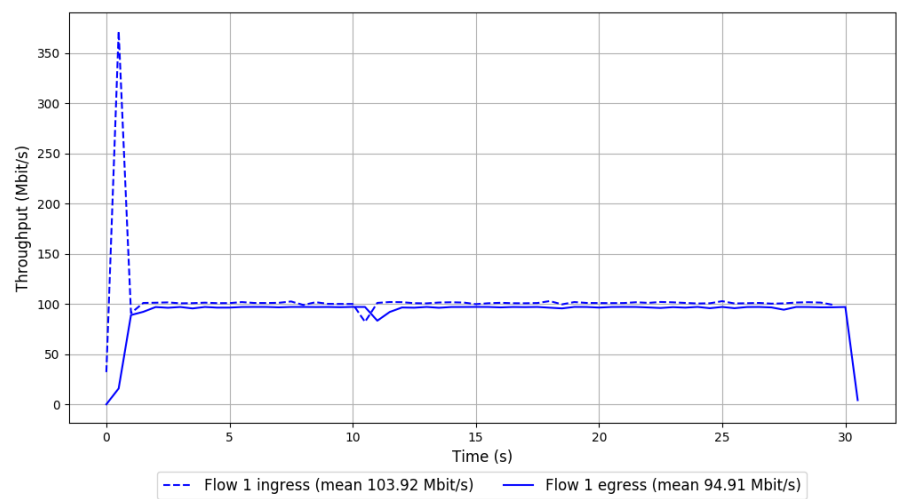
-- Flow 1:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 72.824 ms

Loss rate: 8.67%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-29 13:52:05

End at: 2018-06-29 13:52:35

Local clock offset: -2.501 ms

Remote clock offset: 2.926 ms

# Below is generated by plot.py at 2018-06-29 16:56:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 71.745 ms

Loss rate: 8.39%

-- Flow 1:

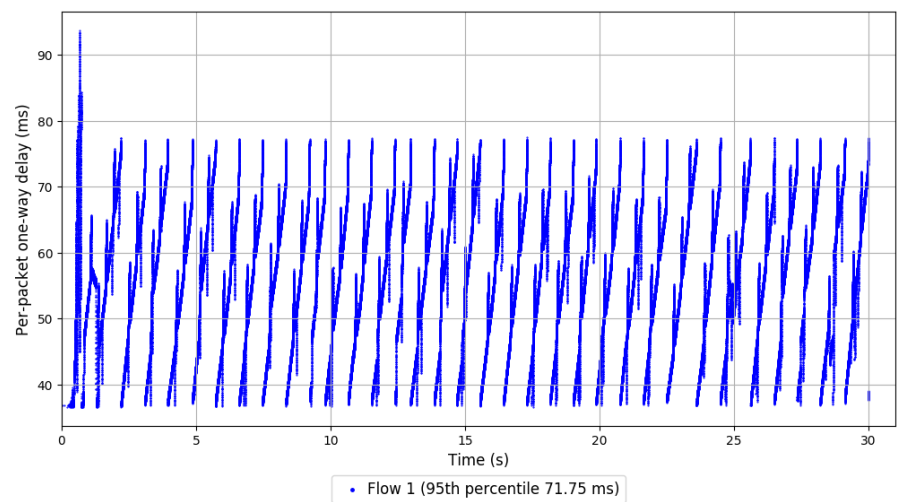
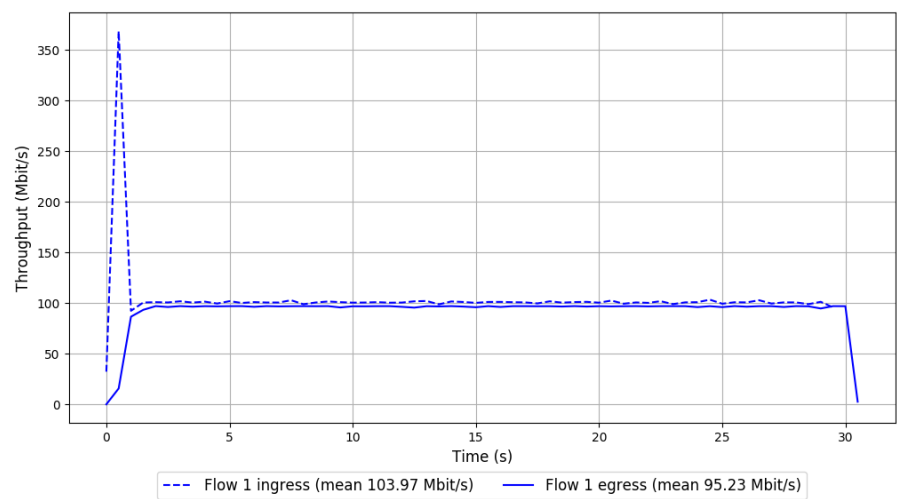
Average throughput: 95.23 Mbit/s

95th percentile per-packet one-way delay: 71.745 ms

Loss rate: 8.39%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-29 14:16:57

End at: 2018-06-29 14:17:27

Local clock offset: -0.406 ms

Remote clock offset: 2.575 ms

# Below is generated by plot.py at 2018-06-29 16:56:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 72.244 ms

Loss rate: 8.71%

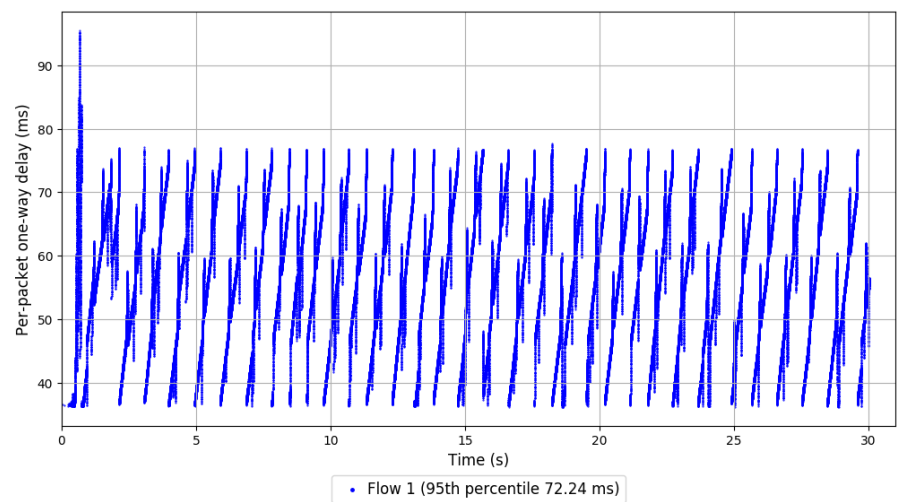
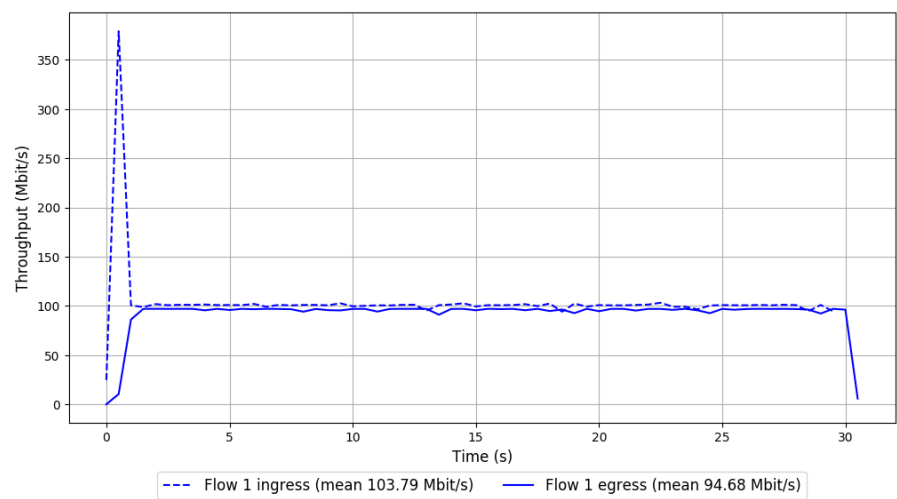
-- Flow 1:

Average throughput: 94.68 Mbit/s

95th percentile per-packet one-way delay: 72.244 ms

Loss rate: 8.71%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-29 14:41:25

End at: 2018-06-29 14:41:55

Local clock offset: -3.241 ms

Remote clock offset: 0.426 ms

# Below is generated by plot.py at 2018-06-29 16:57:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 72.907 ms

Loss rate: 8.19%

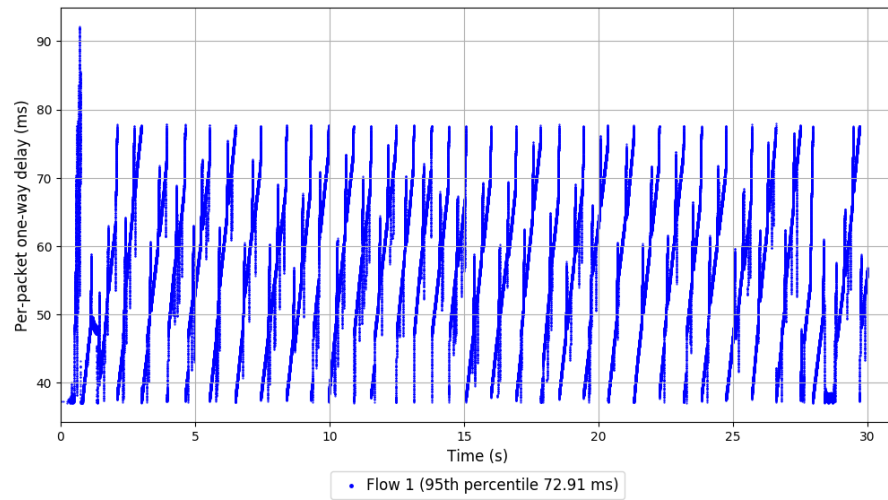
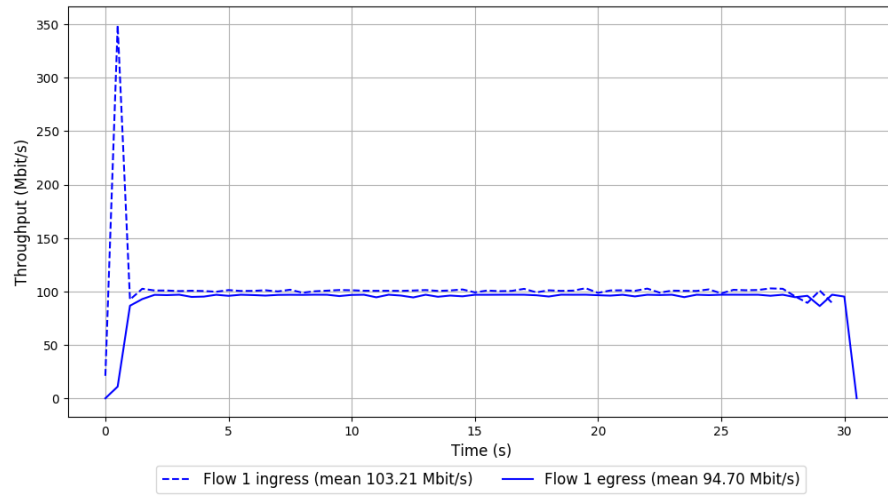
-- Flow 1:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 72.907 ms

Loss rate: 8.19%

### Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-29 15:05:32

End at: 2018-06-29 15:06:02

Local clock offset: -2.284 ms

Remote clock offset: 3.18 ms

# Below is generated by plot.py at 2018-06-29 16:57:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.31 Mbit/s

95th percentile per-packet one-way delay: 72.281 ms

Loss rate: 8.50%

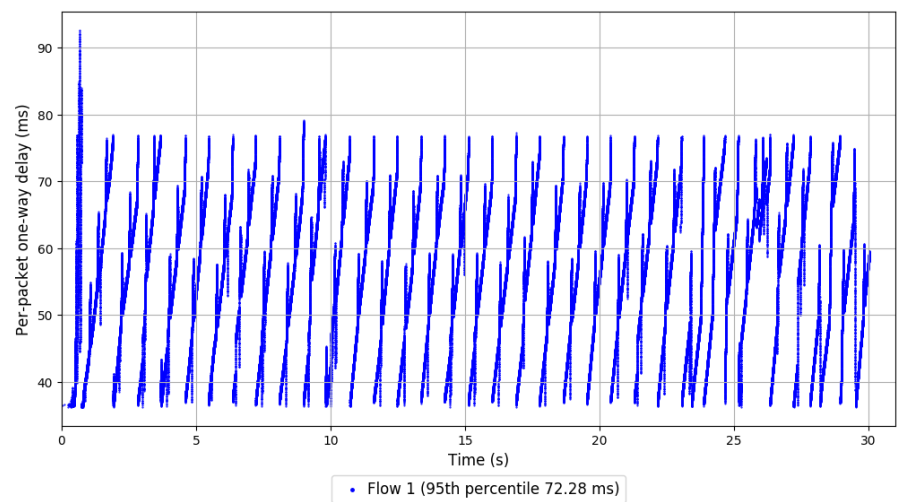
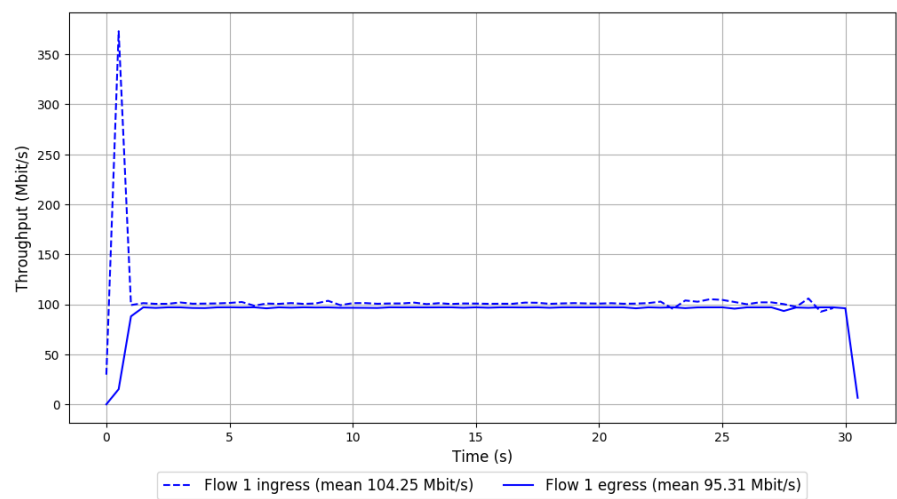
-- Flow 1:

Average throughput: 95.31 Mbit/s

95th percentile per-packet one-way delay: 72.281 ms

Loss rate: 8.50%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-29 15:29:32

End at: 2018-06-29 15:30:02

Local clock offset: 1.128 ms

Remote clock offset: 4.035 ms

# Below is generated by plot.py at 2018-06-29 16:57:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 72.182 ms

Loss rate: 7.71%

-- Flow 1:

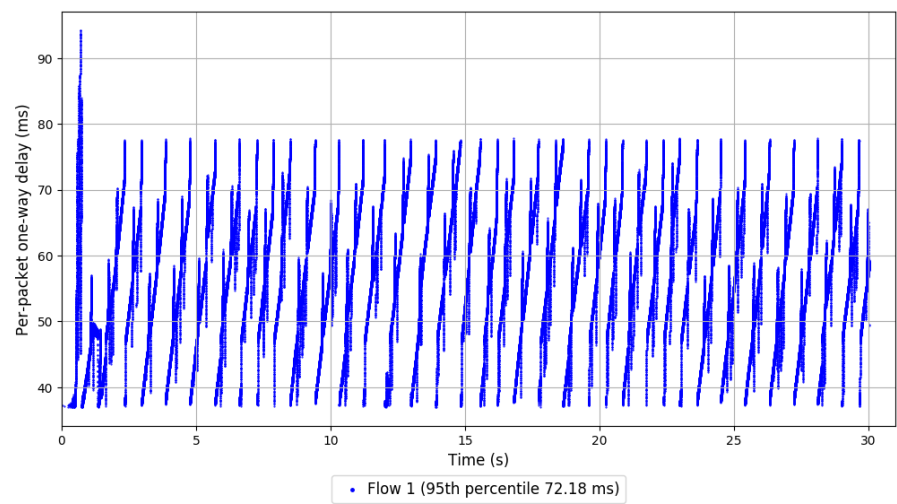
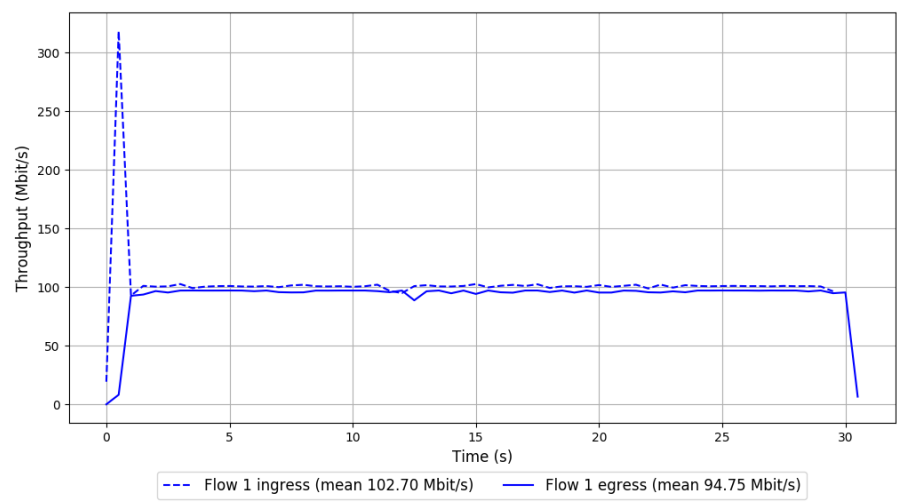
Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 72.182 ms

Loss rate: 7.71%



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-29 15:54:48

End at: 2018-06-29 15:55:18

Local clock offset: -0.31 ms

Remote clock offset: 4.301 ms

# Below is generated by plot.py at 2018-06-29 16:57:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 71.652 ms

Loss rate: 8.44%

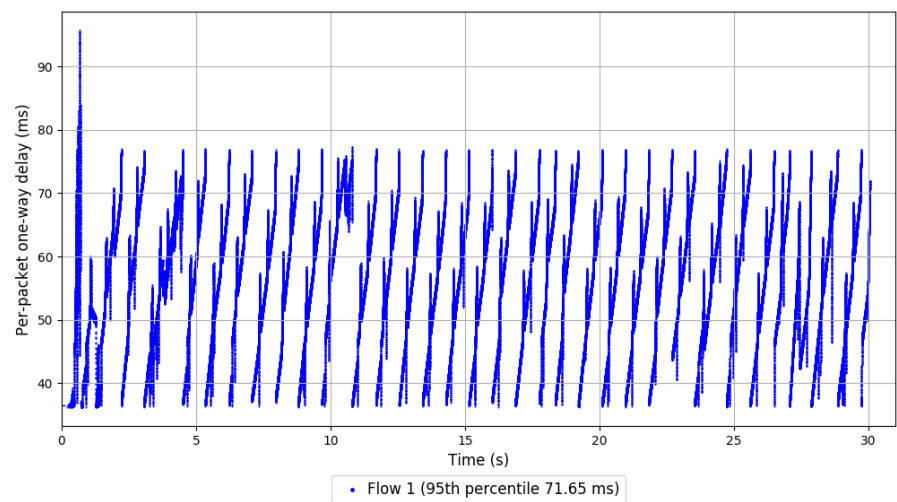
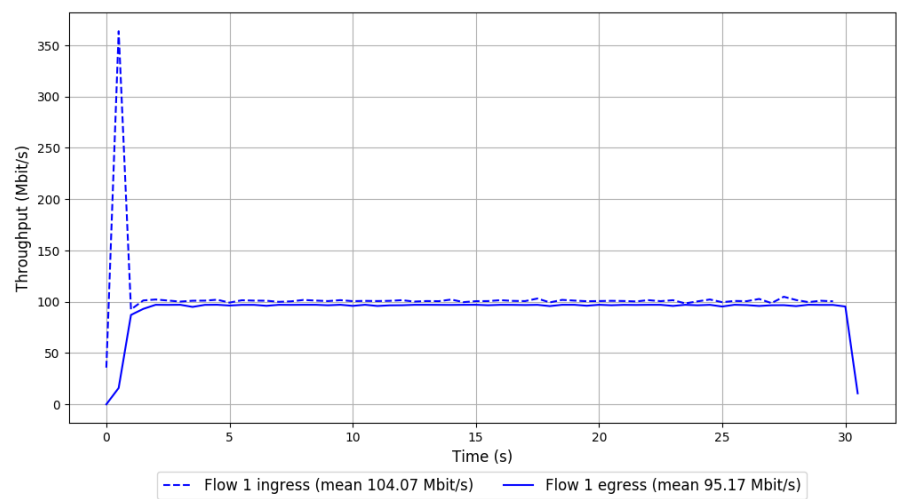
-- Flow 1:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 71.652 ms

Loss rate: 8.44%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-29 16:18:44

End at: 2018-06-29 16:19:14

Local clock offset: -1.835 ms

Remote clock offset: 4.359 ms

# Below is generated by plot.py at 2018-06-29 16:58:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 71.859 ms

Loss rate: 8.39%

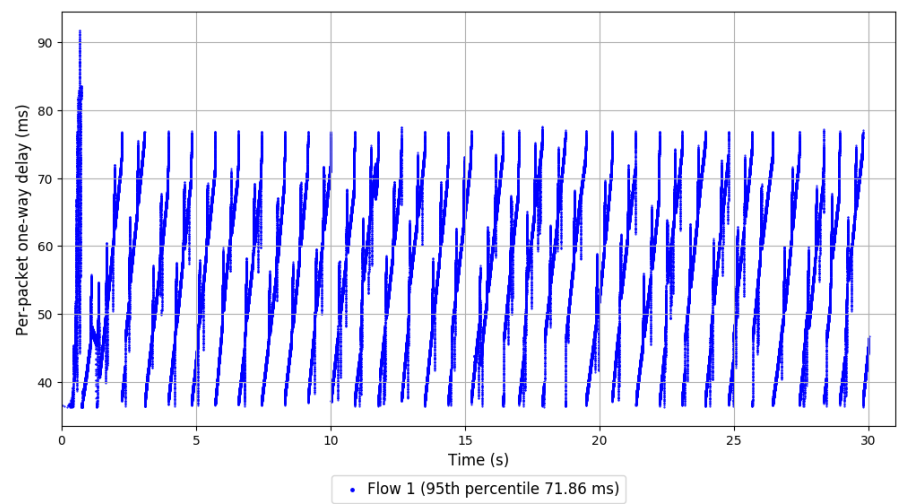
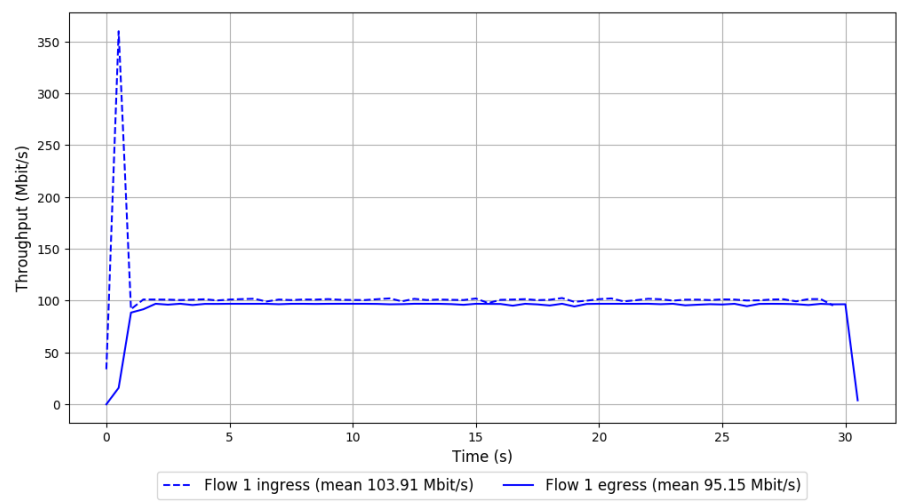
-- Flow 1:

Average throughput: 95.15 Mbit/s

95th percentile per-packet one-way delay: 71.859 ms

Loss rate: 8.39%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-29 16:41:39

End at: 2018-06-29 16:42:09

Local clock offset: -1.708 ms

Remote clock offset: 6.253 ms

# Below is generated by plot.py at 2018-06-29 16:58:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 72.220 ms

Loss rate: 7.54%

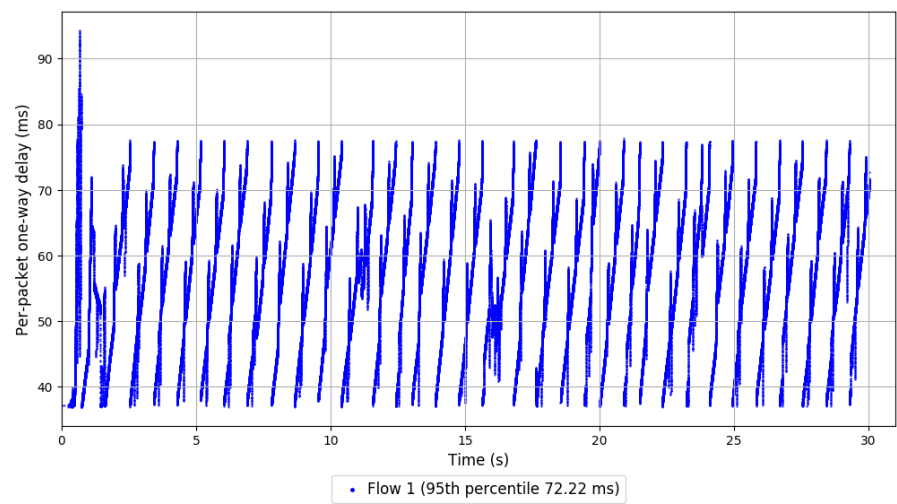
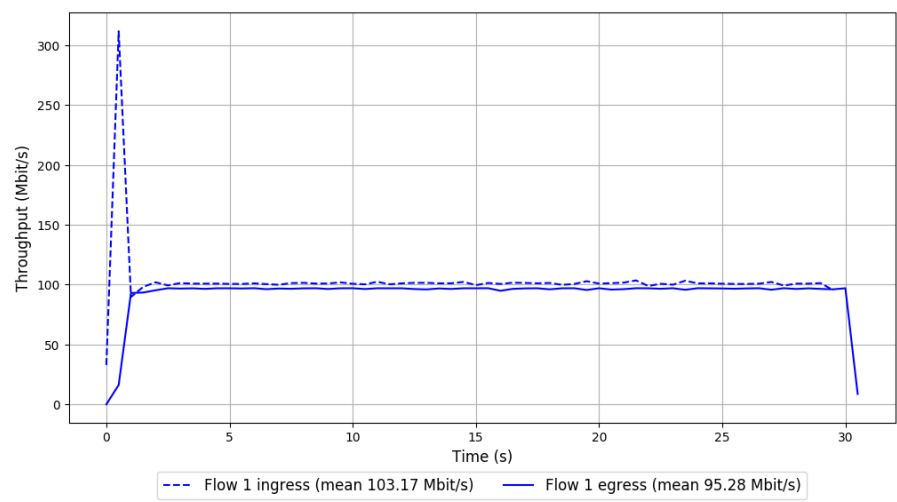
-- Flow 1:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 72.220 ms

Loss rate: 7.54%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-06-29 12:48:41

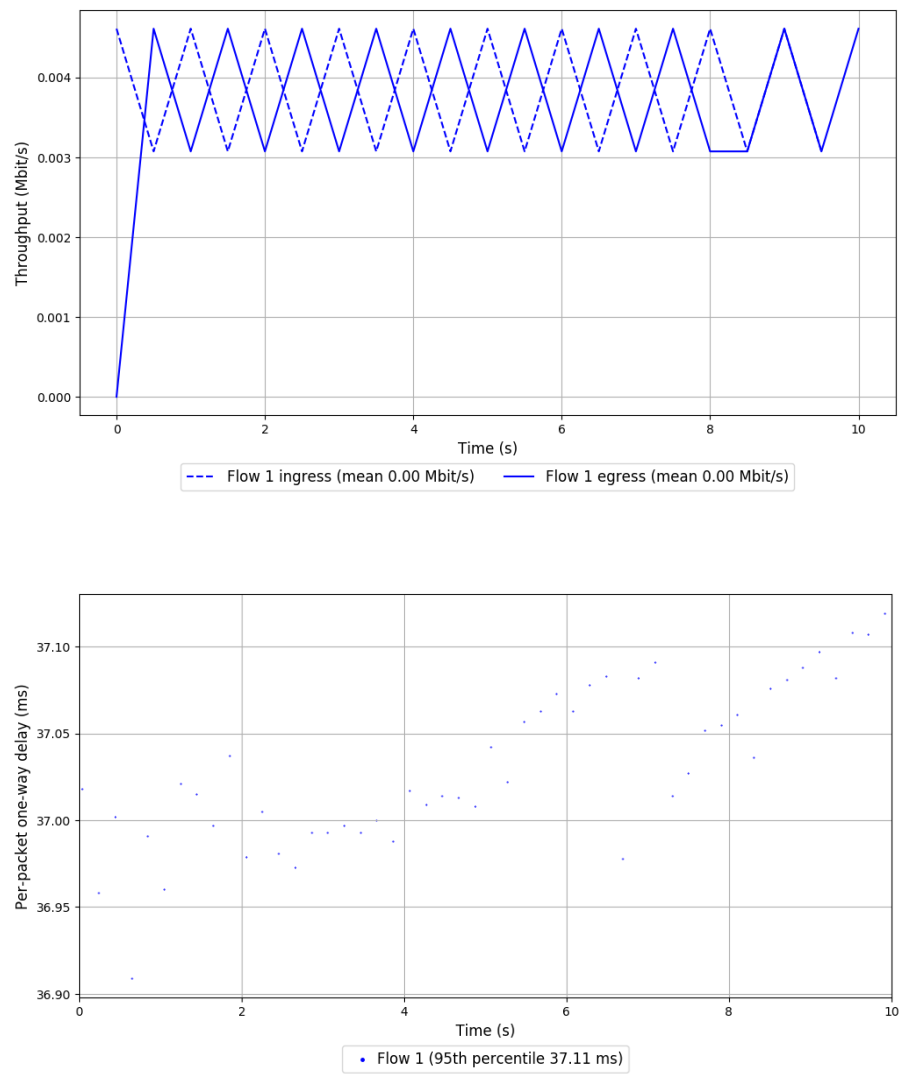
End at: 2018-06-29 12:49:11

Local clock offset: -9.974 ms

Remote clock offset: 5.068 ms



Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

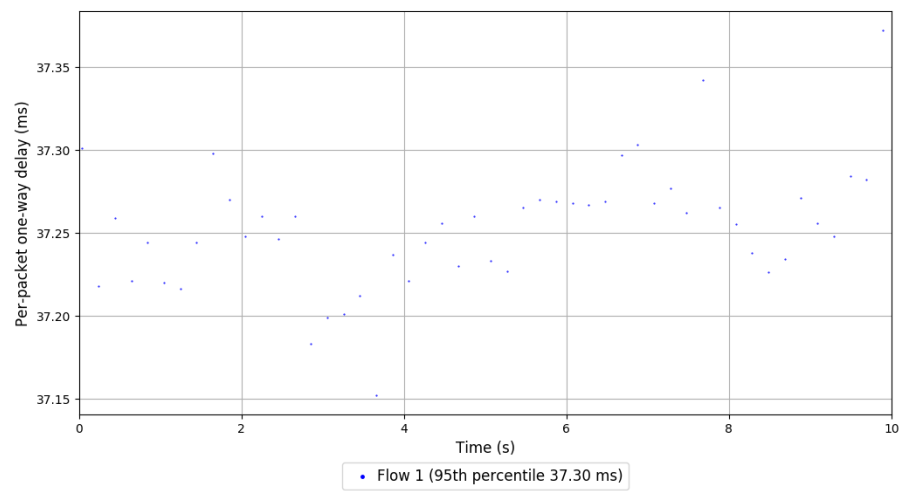
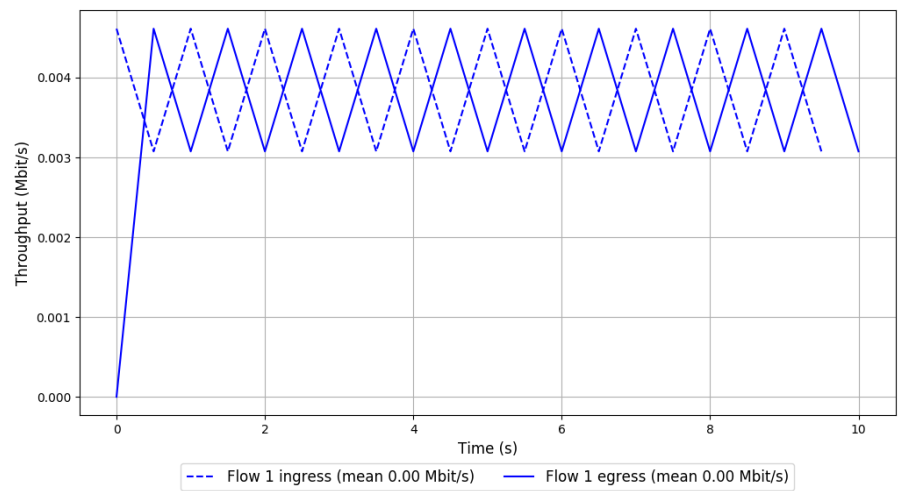
Start at: 2018-06-29 13:12:26

End at: 2018-06-29 13:12:56

Local clock offset: -3.65 ms

Remote clock offset: 6.037 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

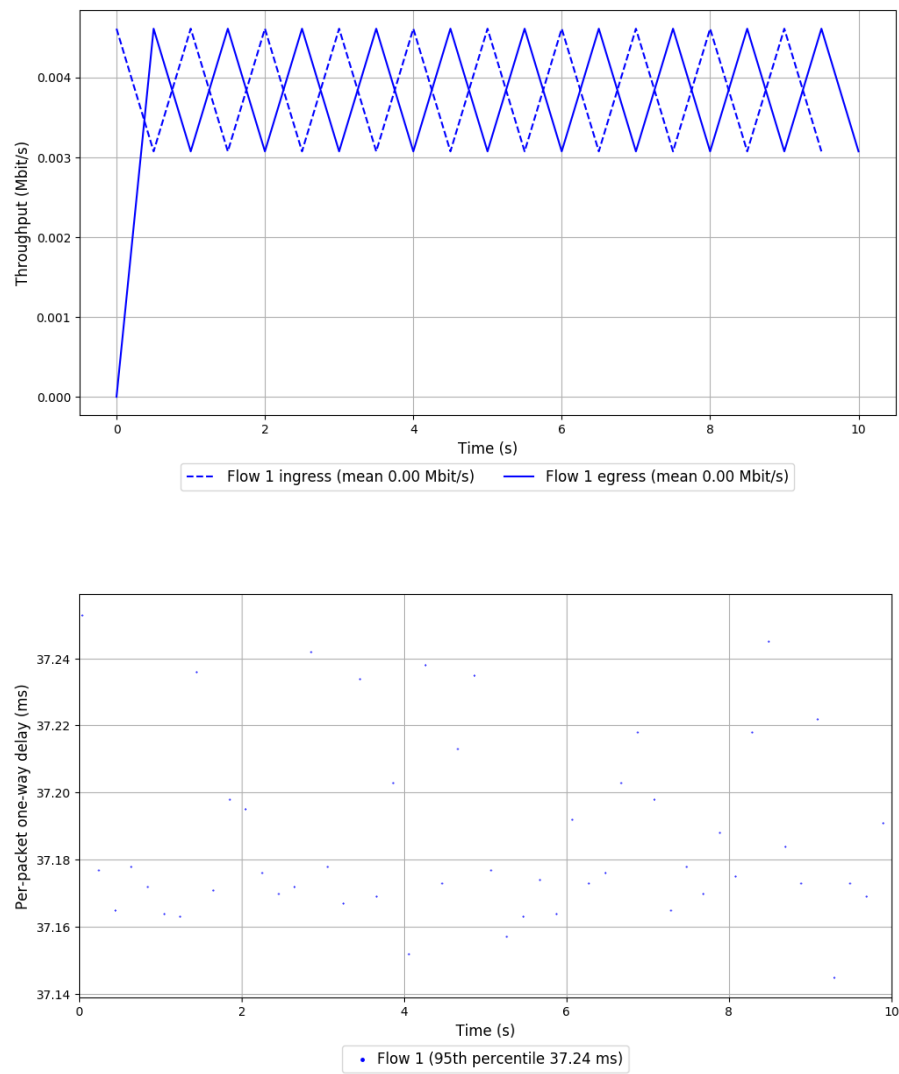
Start at: 2018-06-29 13:35:41

End at: 2018-06-29 13:36:11

Local clock offset: -4.508 ms

Remote clock offset: 2.572 ms

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

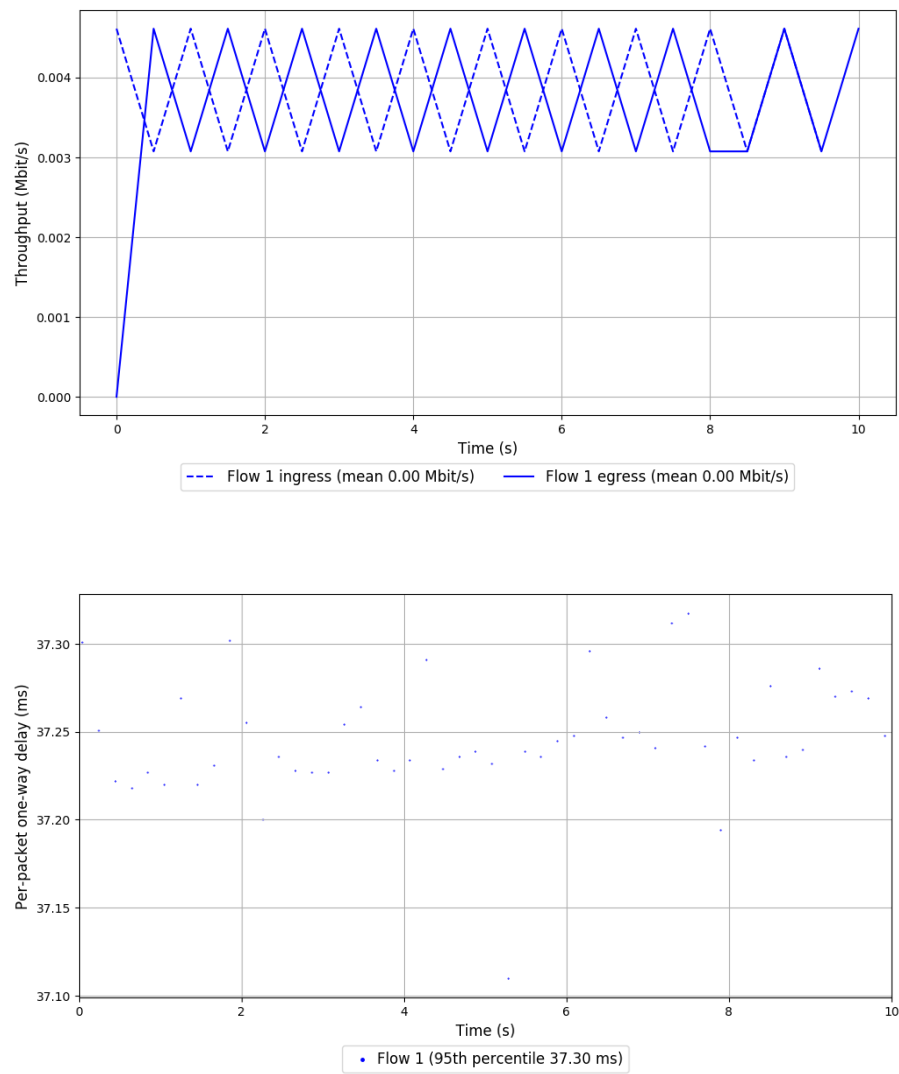
Start at: 2018-06-29 13:59:18

End at: 2018-06-29 13:59:48

Local clock offset: -0.829 ms

Remote clock offset: 3.074 ms

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-06-29 14:24:06

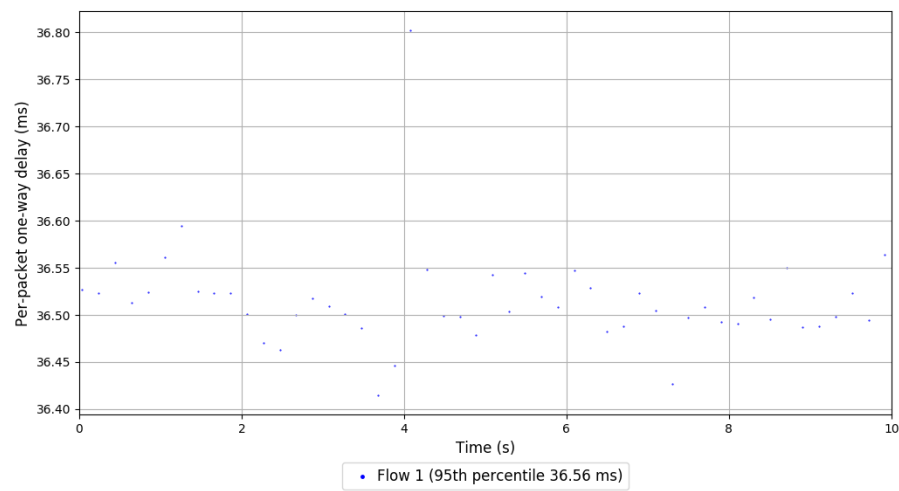
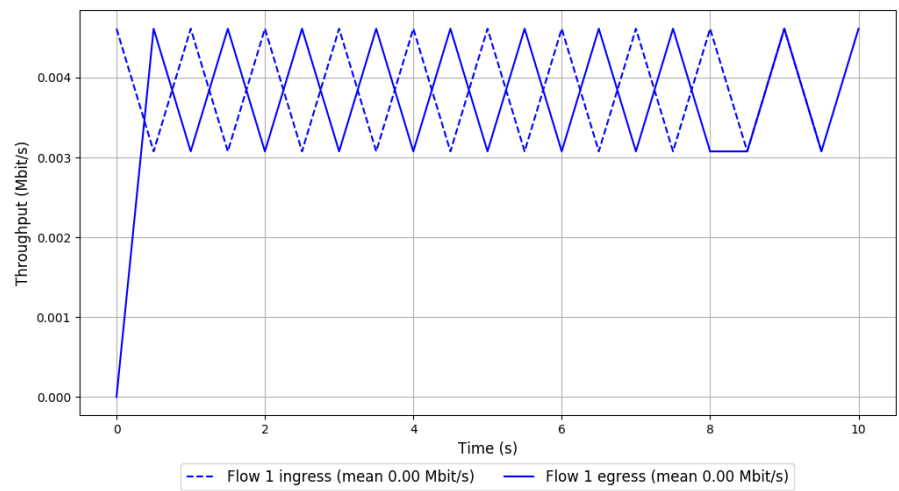
End at: 2018-06-29 14:24:36

Local clock offset: -1.771 ms

Remote clock offset: 1.823 ms



Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

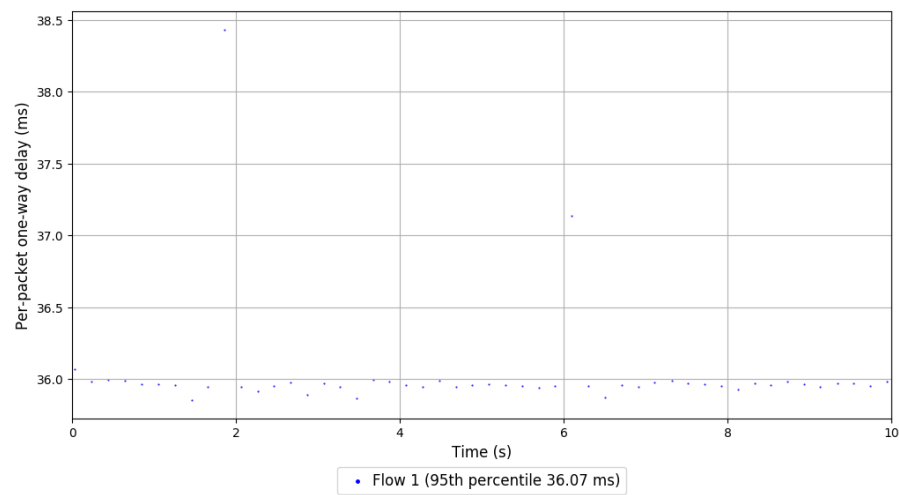
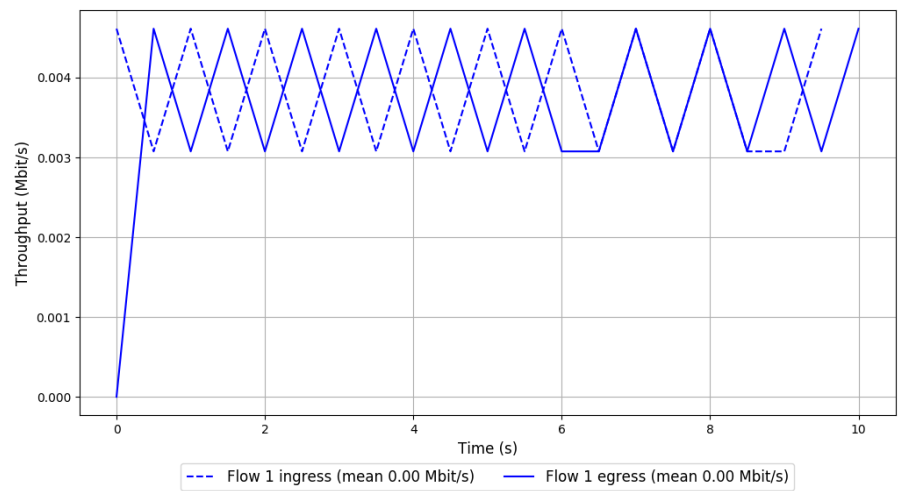
Start at: 2018-06-29 14:48:21

End at: 2018-06-29 14:48:51

Local clock offset: -3.091 ms

Remote clock offset: -0.697 ms

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

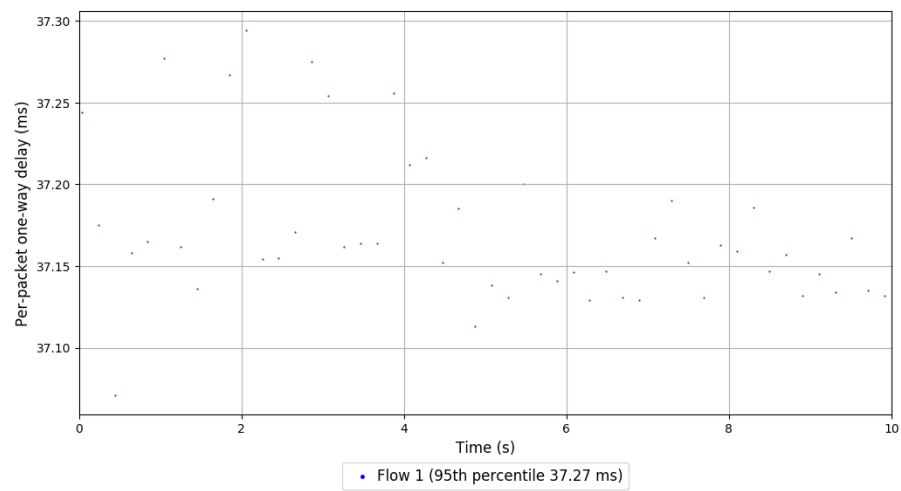
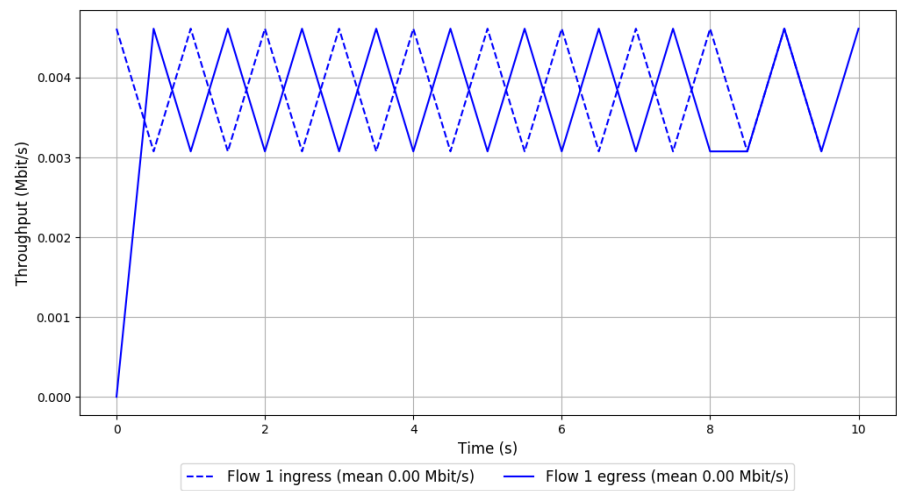
Start at: 2018-06-29 15:12:29

End at: 2018-06-29 15:12:59

Local clock offset: -2.311 ms

Remote clock offset: 3.737 ms

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

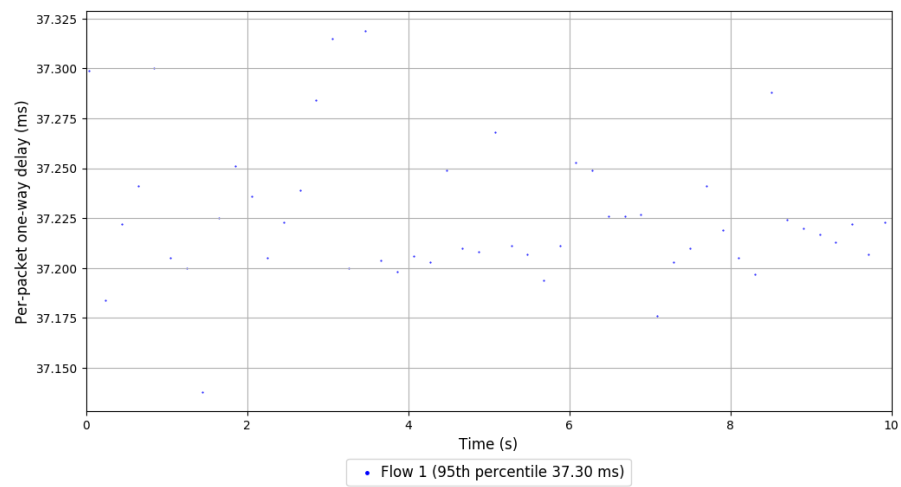
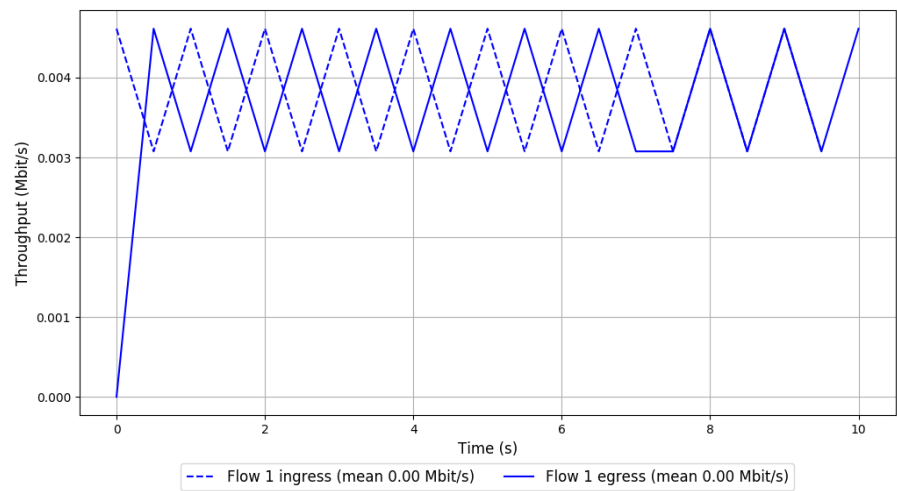
Start at: 2018-06-29 15:36:38

End at: 2018-06-29 15:37:08

Local clock offset: 1.805 ms

Remote clock offset: 4.201 ms

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-06-29 16:01:37

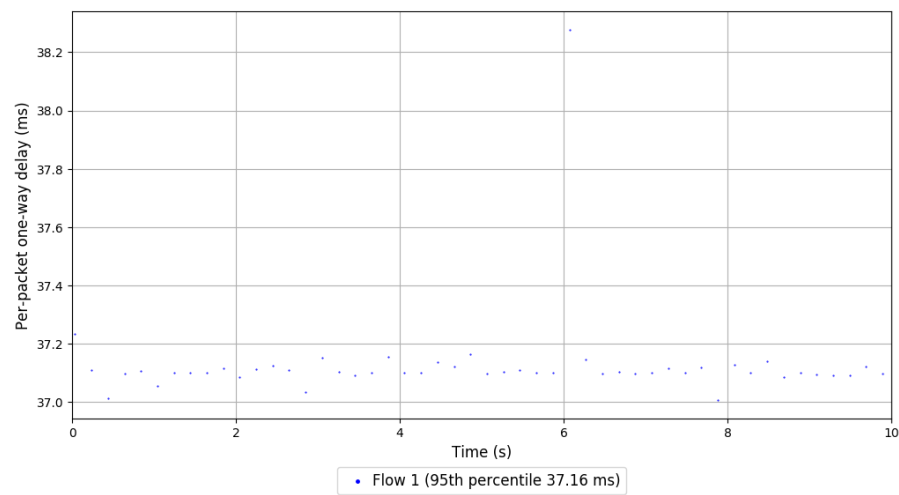
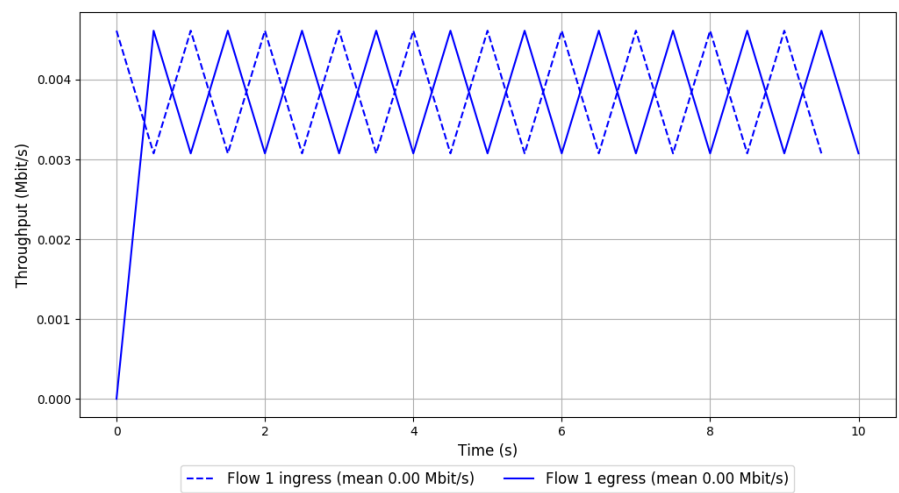
End at: 2018-06-29 16:02:07

Local clock offset: -1.177 ms

Remote clock offset: 4.342 ms



Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

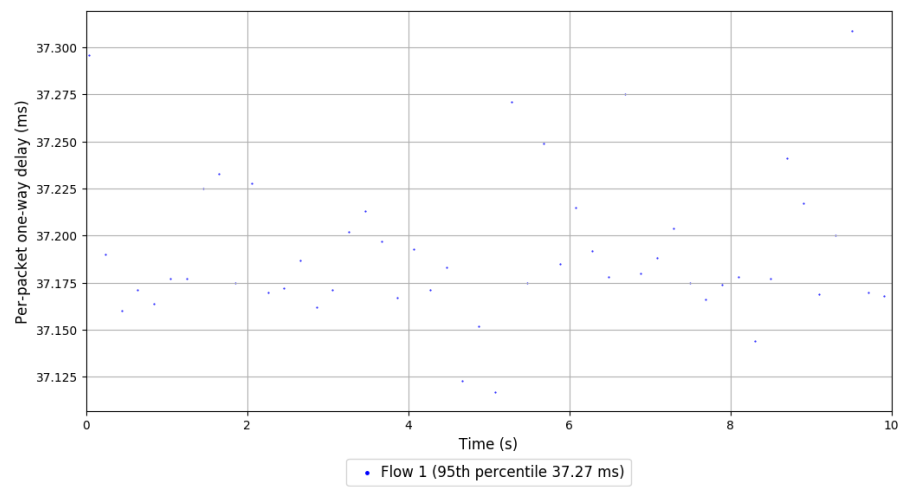
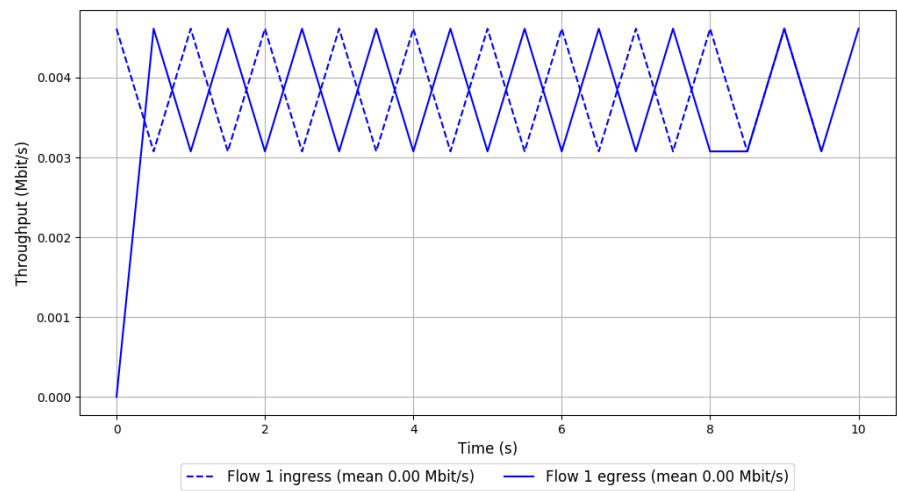
Start at: 2018-06-29 16:25:23

End at: 2018-06-29 16:25:53

Local clock offset: -1.652 ms

Remote clock offset: 4.432 ms

Run 10: Report of FillP-Sheep — Data Link

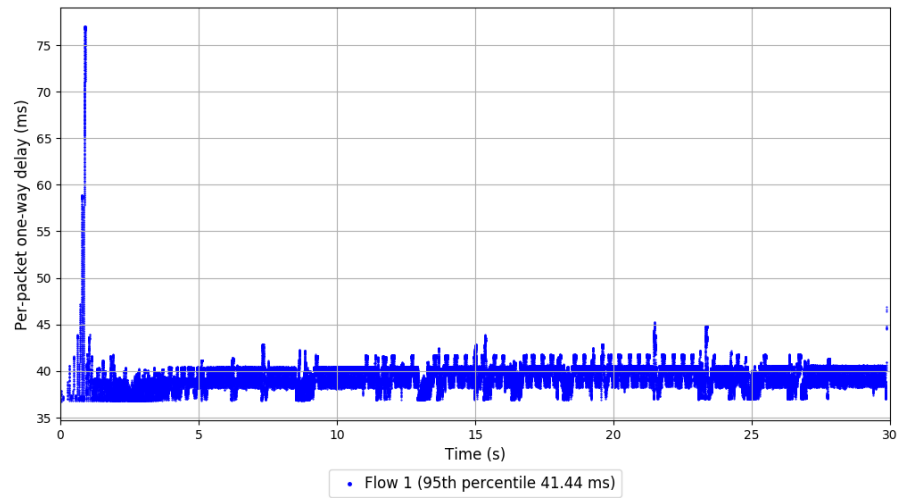
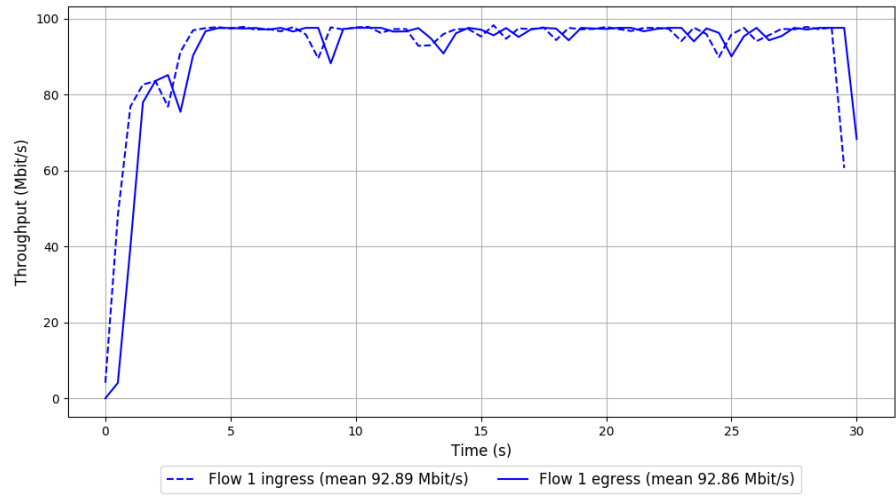


```
Run 1: Statistics of Indigo

Start at: 2018-06-29 12:52:28
End at: 2018-06-29 12:52:58
Local clock offset: -6.715 ms
Remote clock offset: 5.596 ms

# Below is generated by plot.py at 2018-06-29 16:58:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 41.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 41.440 ms
Loss rate: 0.00%
```

### Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-29 13:16:21

End at: 2018-06-29 13:16:51

Local clock offset: -3.885 ms

Remote clock offset: 4.942 ms

# Below is generated by plot.py at 2018-06-29 16:58:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 41.260 ms

Loss rate: 0.01%

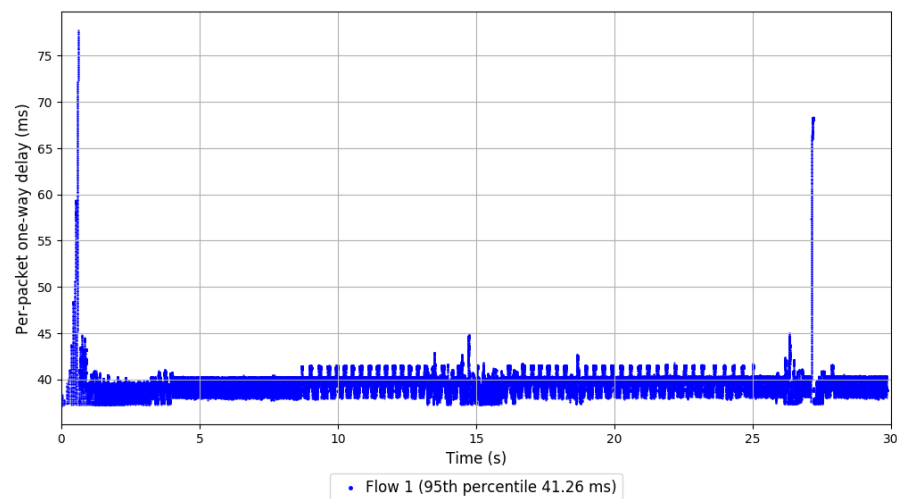
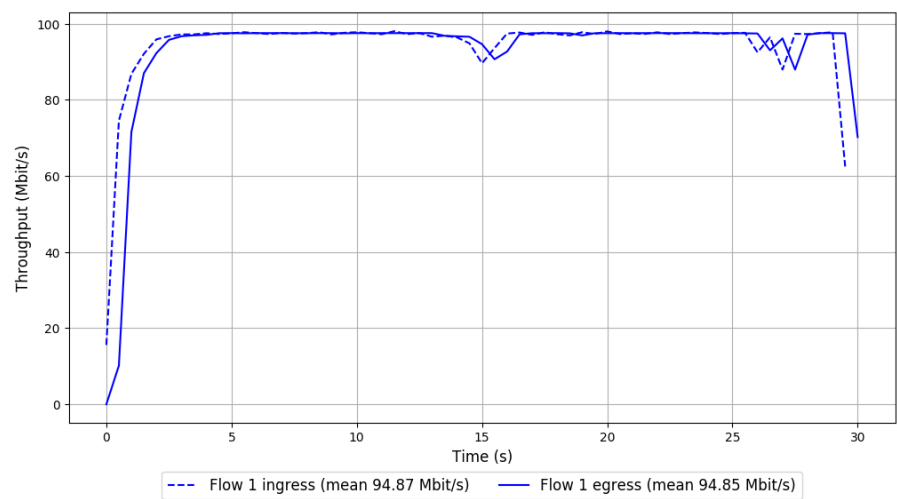
-- Flow 1:

Average throughput: 94.85 Mbit/s

95th percentile per-packet one-way delay: 41.260 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-29 13:39:43

End at: 2018-06-29 13:40:13

Local clock offset: -4.85 ms

Remote clock offset: 2.219 ms

# Below is generated by plot.py at 2018-06-29 16:58:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 41.149 ms

Loss rate: 0.09%

-- Flow 1:

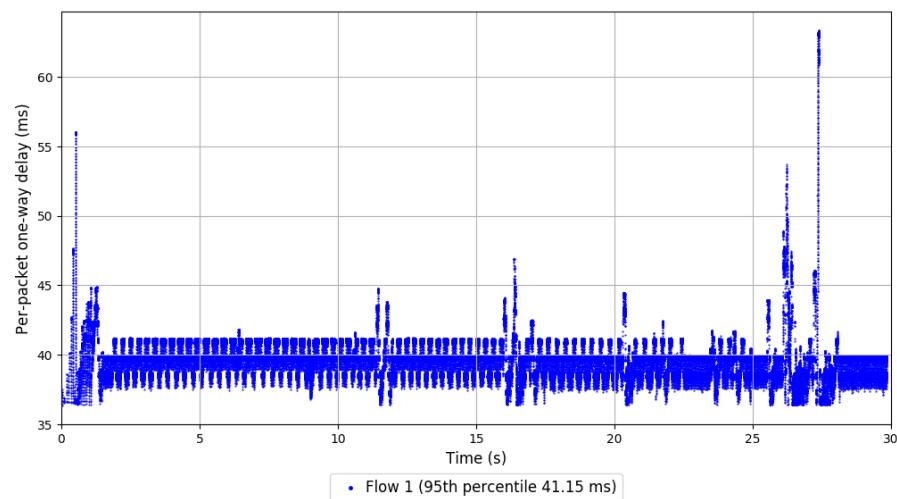
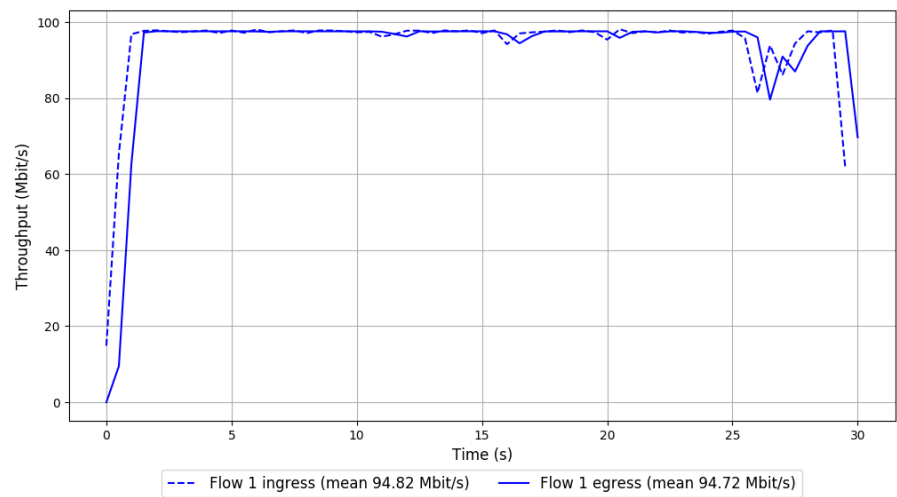
Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 41.149 ms

Loss rate: 0.09%



Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-29 14:03:30

End at: 2018-06-29 14:04:00

Local clock offset: -0.501 ms

Remote clock offset: 3.021 ms

# Below is generated by plot.py at 2018-06-29 16:58:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 40.239 ms

Loss rate: 0.00%

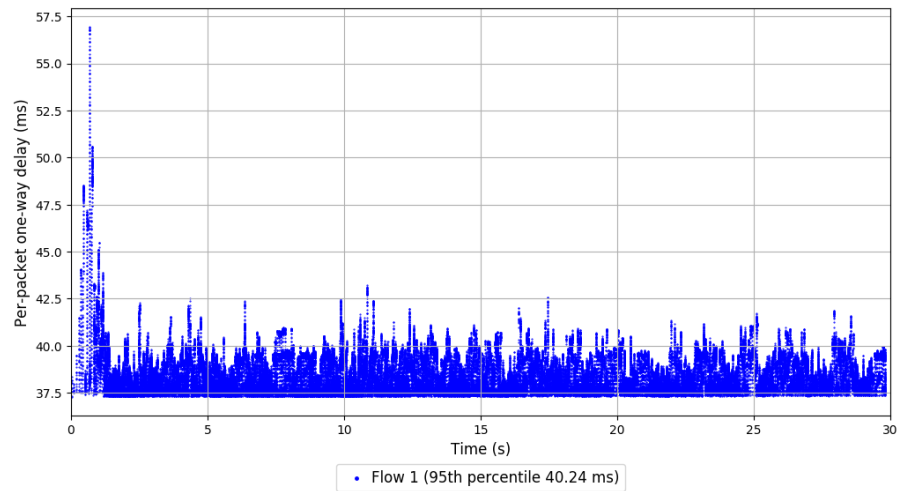
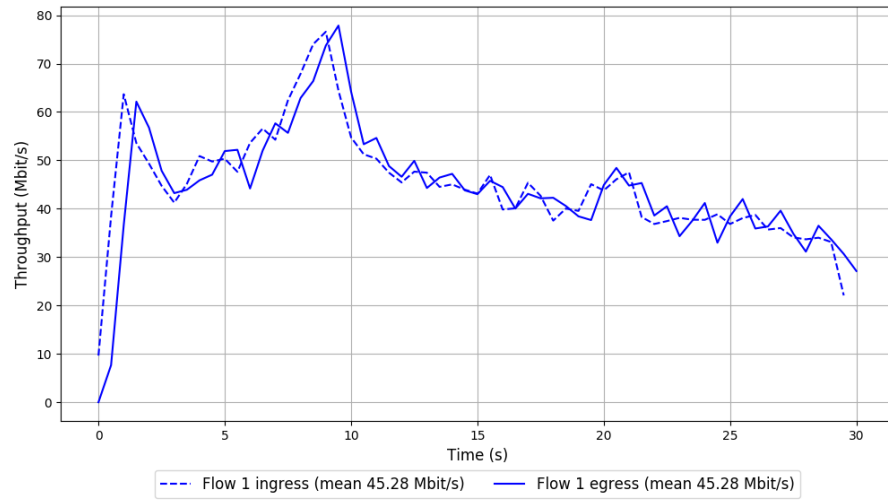
-- Flow 1:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 40.239 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo

Start at: 2018-06-29 14:28:12

End at: 2018-06-29 14:28:42

Local clock offset: -2.171 ms

Remote clock offset: 1.343 ms

# Below is generated by plot.py at 2018-06-29 16:58:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 40.026 ms

Loss rate: 0.00%

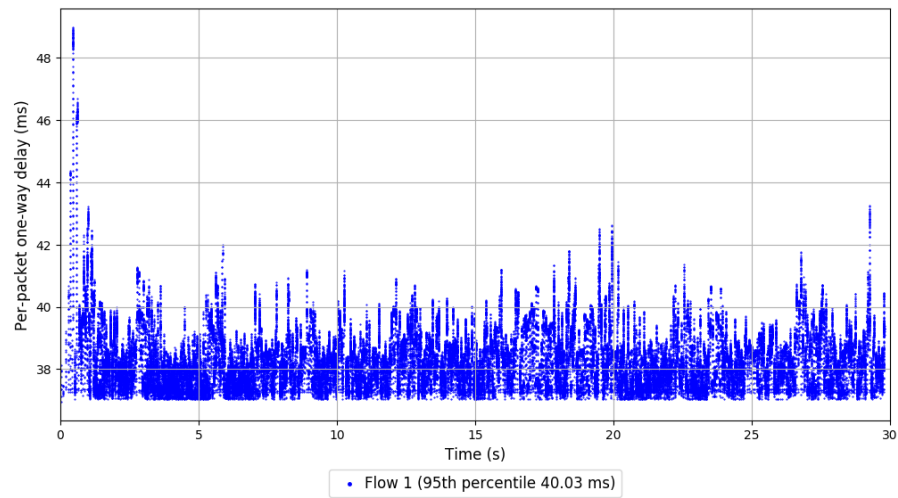
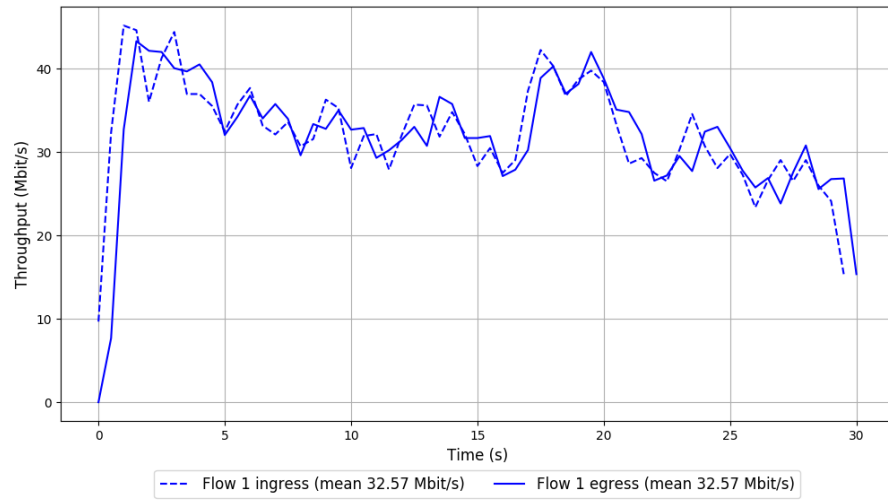
-- Flow 1:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 40.026 ms

Loss rate: 0.00%

### Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-29 14:52:30

End at: 2018-06-29 14:53:01

Local clock offset: -2.73 ms

Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-06-29 16:58:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 40.057 ms

Loss rate: 0.14%

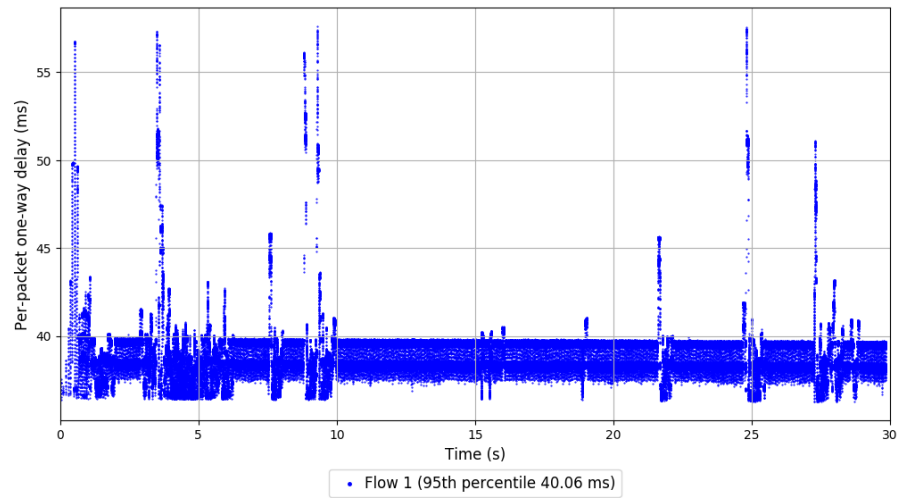
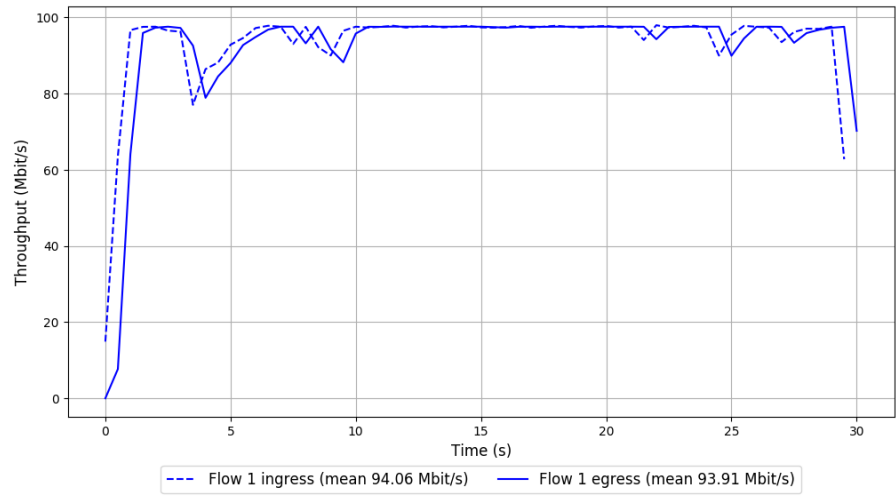
-- Flow 1:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 40.057 ms

Loss rate: 0.14%

### Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-29 15:16:36

End at: 2018-06-29 15:17:06

Local clock offset: -2.074 ms

Remote clock offset: 3.818 ms

# Below is generated by plot.py at 2018-06-29 16:59:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 41.375 ms

Loss rate: 0.02%

-- Flow 1:

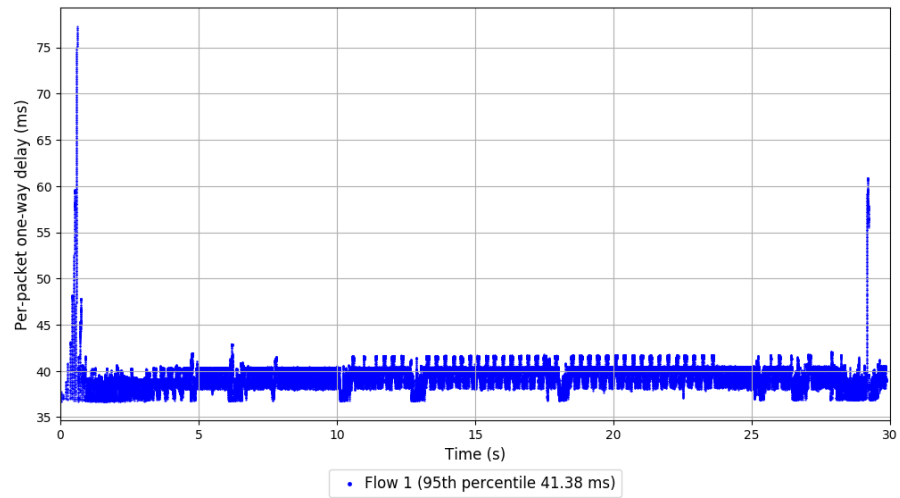
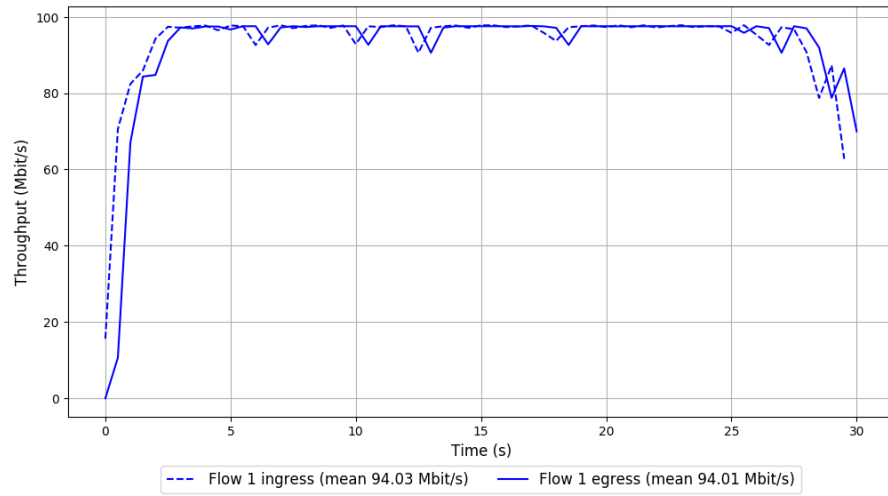
Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 41.375 ms

Loss rate: 0.02%



### Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-29 15:40:52

End at: 2018-06-29 15:41:22

Local clock offset: 2.082 ms

Remote clock offset: 4.228 ms

# Below is generated by plot.py at 2018-06-29 16:59:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.02 Mbit/s

95th percentile per-packet one-way delay: 41.169 ms

Loss rate: 0.01%

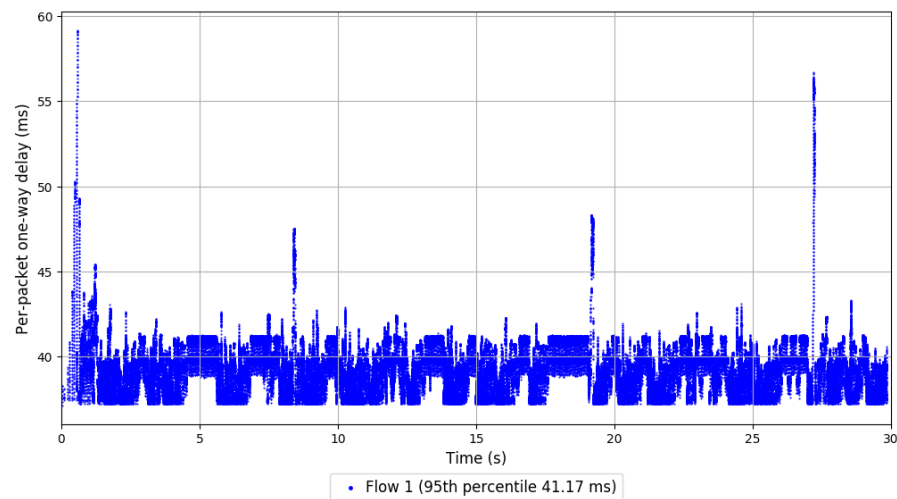
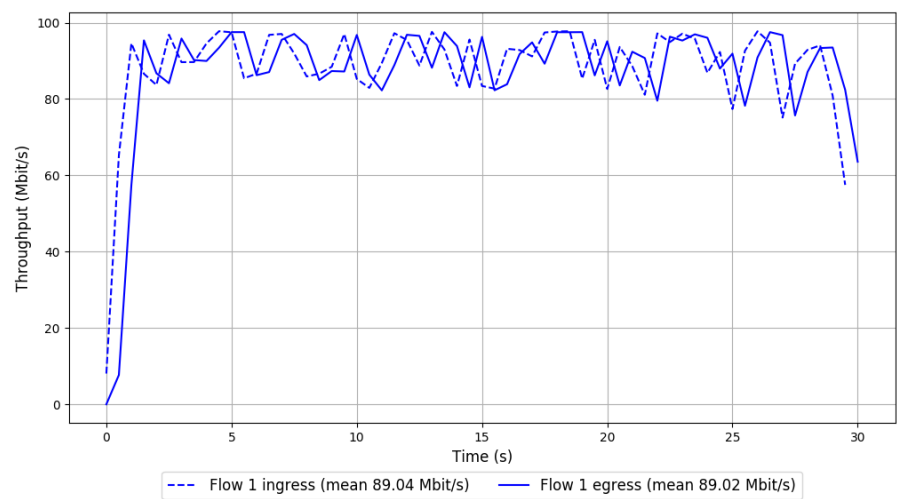
-- Flow 1:

Average throughput: 89.02 Mbit/s

95th percentile per-packet one-way delay: 41.169 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-29 16:05:33

End at: 2018-06-29 16:06:03

Local clock offset: -1.602 ms

Remote clock offset: 4.29 ms

# Below is generated by plot.py at 2018-06-29 16:59:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 41.049 ms

Loss rate: 0.02%

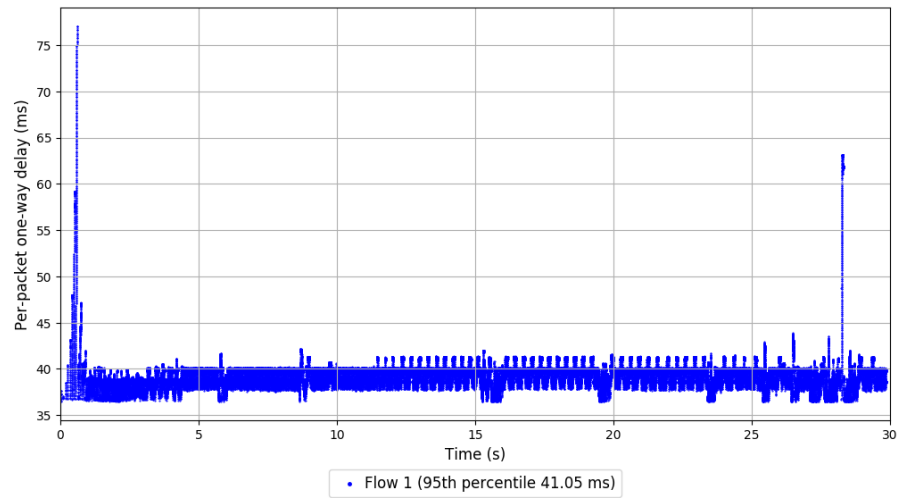
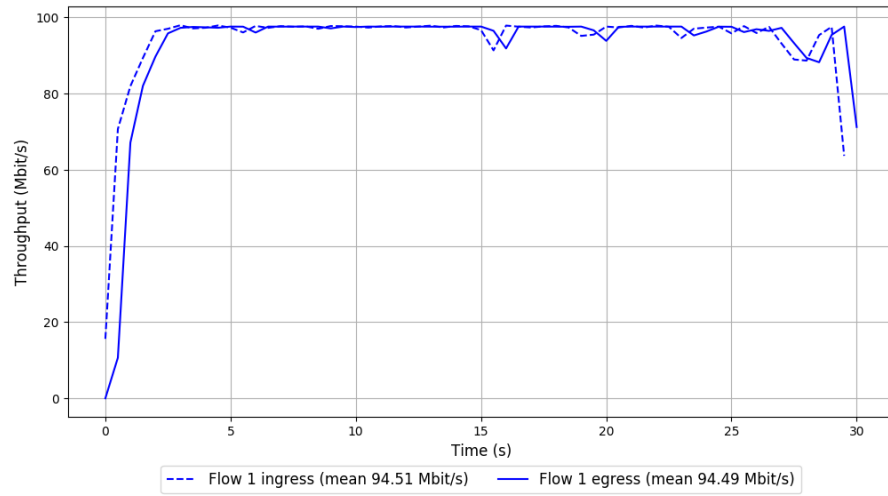
-- Flow 1:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 41.049 ms

Loss rate: 0.02%

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



Run 10: Statistics of Indigo

Start at: 2018-06-29 16:29:22

End at: 2018-06-29 16:29:52

Local clock offset: -1.611 ms

Remote clock offset: 4.41 ms

# Below is generated by plot.py at 2018-06-29 16:59:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 41.180 ms

Loss rate: 0.03%

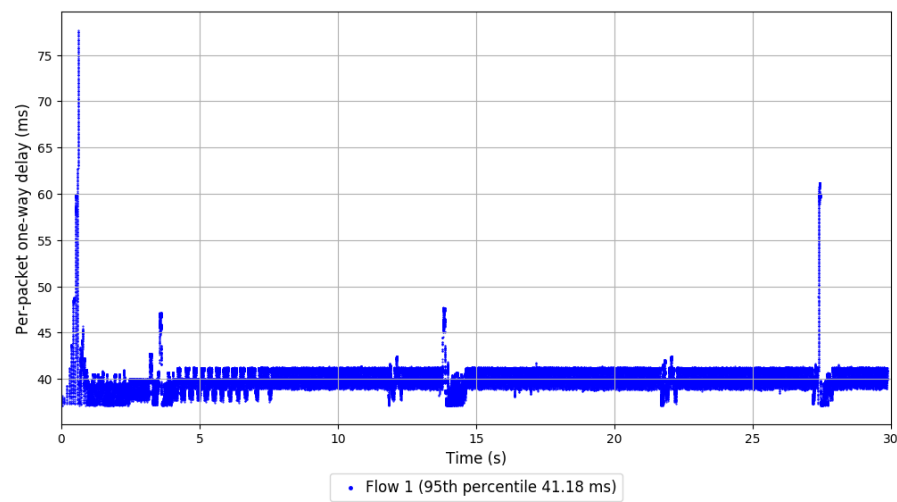
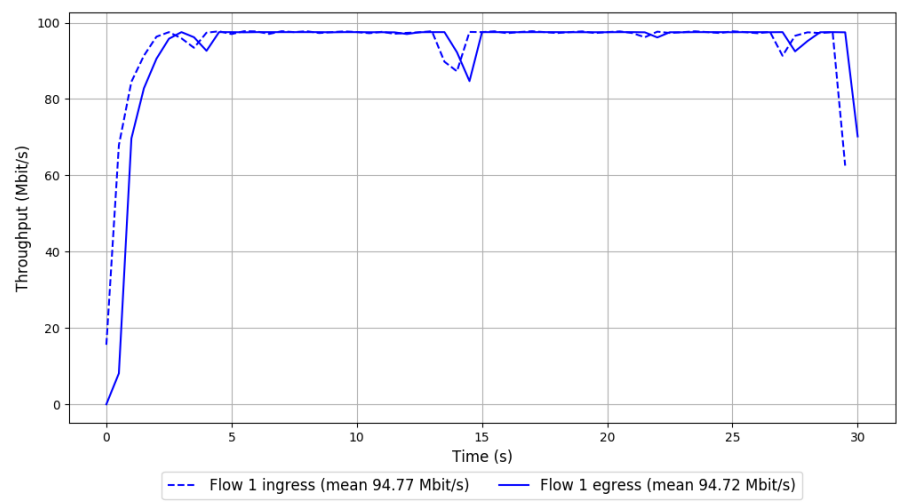
-- Flow 1:

Average throughput: 94.72 Mbit/s

95th percentile per-packet one-way delay: 41.180 ms

Loss rate: 0.03%

Run 10: Report of Indigo — Data Link



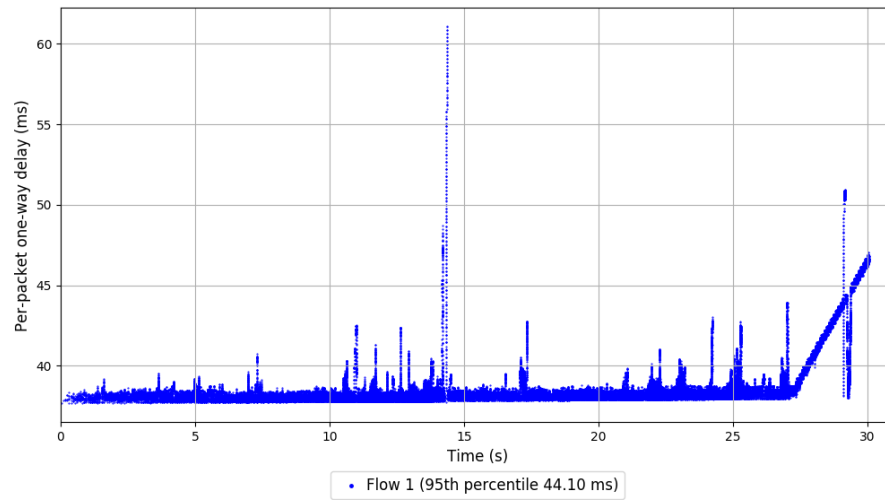
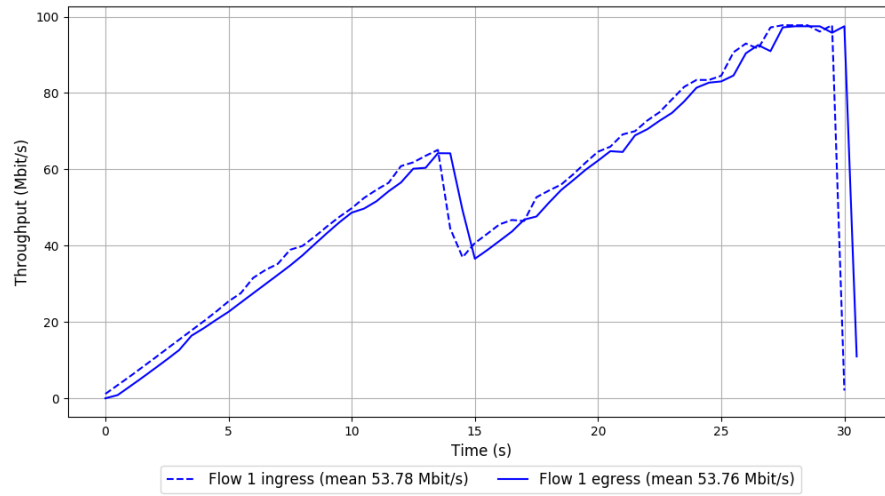
```
Run 1: Statistics of LEDBAT

Start at: 2018-06-29 12:49:56
End at: 2018-06-29 12:50:26
Local clock offset: -8.786 ms
Remote clock offset: 5.243 ms

# Below is generated by plot.py at 2018-06-29 16:59:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.76 Mbit/s
95th percentile per-packet one-way delay: 44.102 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 53.76 Mbit/s
95th percentile per-packet one-way delay: 44.102 ms
Loss rate: 0.02%
```



# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-29 13:13:41

End at: 2018-06-29 13:14:11

Local clock offset: -3.847 ms

Remote clock offset: 5.652 ms

# Below is generated by plot.py at 2018-06-29 16:59:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.33 Mbit/s

95th percentile per-packet one-way delay: 38.676 ms

Loss rate: 0.11%

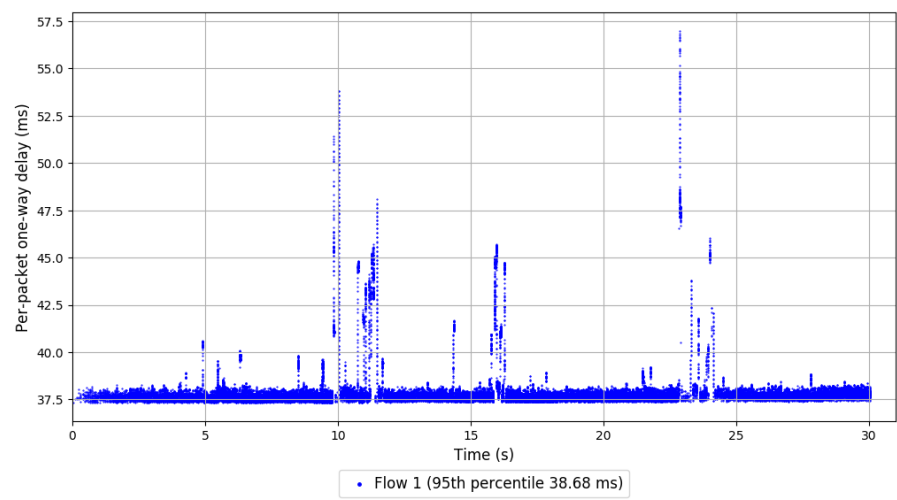
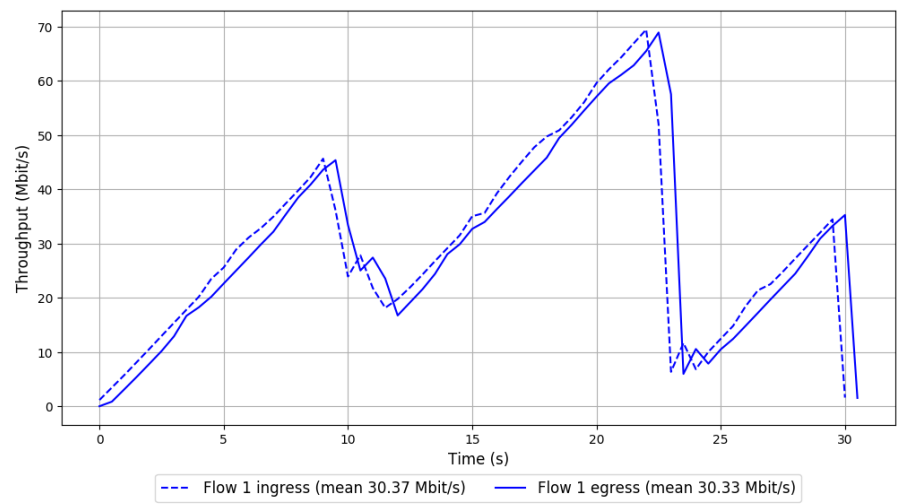
-- Flow 1:

Average throughput: 30.33 Mbit/s

95th percentile per-packet one-way delay: 38.676 ms

Loss rate: 0.11%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-29 13:36:55

End at: 2018-06-29 13:37:25

Local clock offset: -4.665 ms

Remote clock offset: 2.424 ms

# Below is generated by plot.py at 2018-06-29 16:59:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 57.086 ms

Loss rate: 0.00%

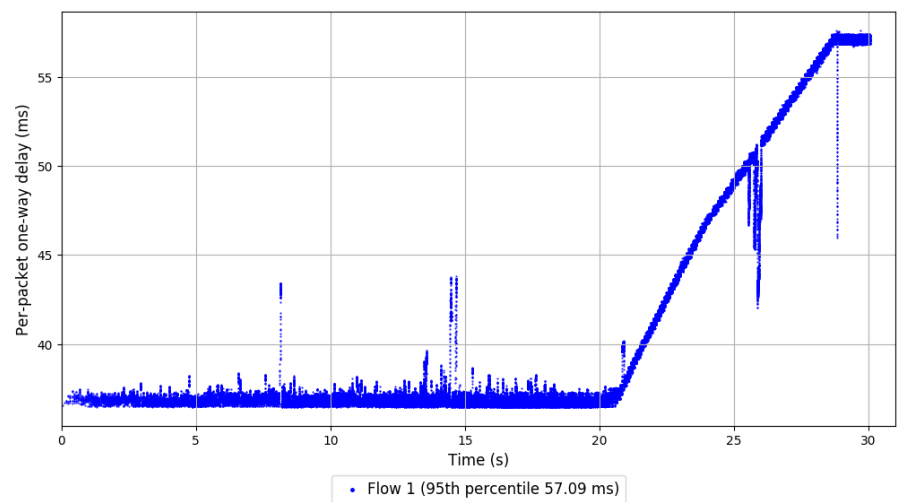
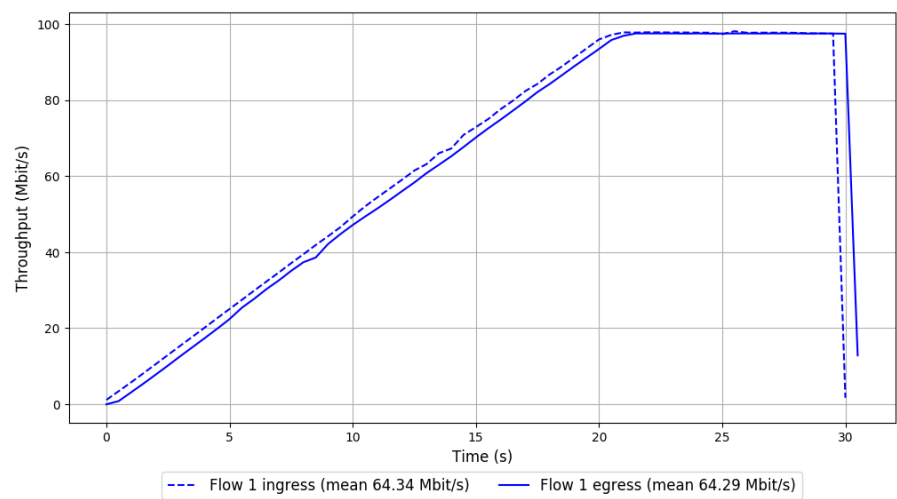
-- Flow 1:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 57.086 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-29 14:00:33

End at: 2018-06-29 14:01:03

Local clock offset: -0.682 ms

Remote clock offset: 3.087 ms

# Below is generated by plot.py at 2018-06-29 16:59:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 53.274 ms

Loss rate: 0.03%

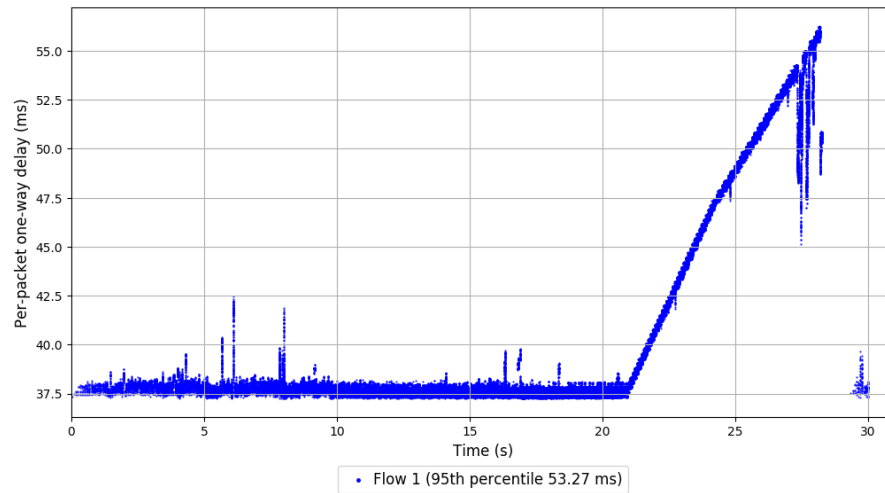
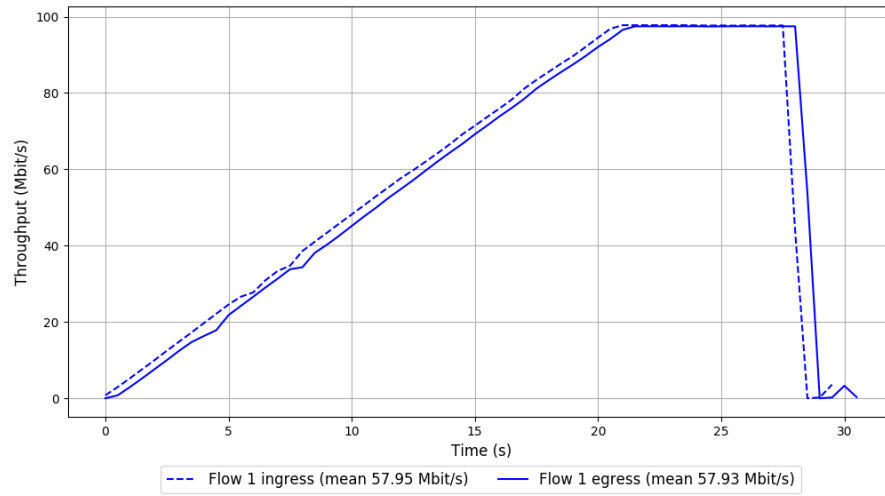
-- Flow 1:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 53.274 ms

Loss rate: 0.03%

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



Run 5: Statistics of LEDBAT

Start at: 2018-06-29 14:25:21

End at: 2018-06-29 14:25:51

Local clock offset: -1.873 ms

Remote clock offset: 1.589 ms

# Below is generated by plot.py at 2018-06-29 16:59:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.09 Mbit/s

95th percentile per-packet one-way delay: 46.749 ms

Loss rate: 0.04%

-- Flow 1:

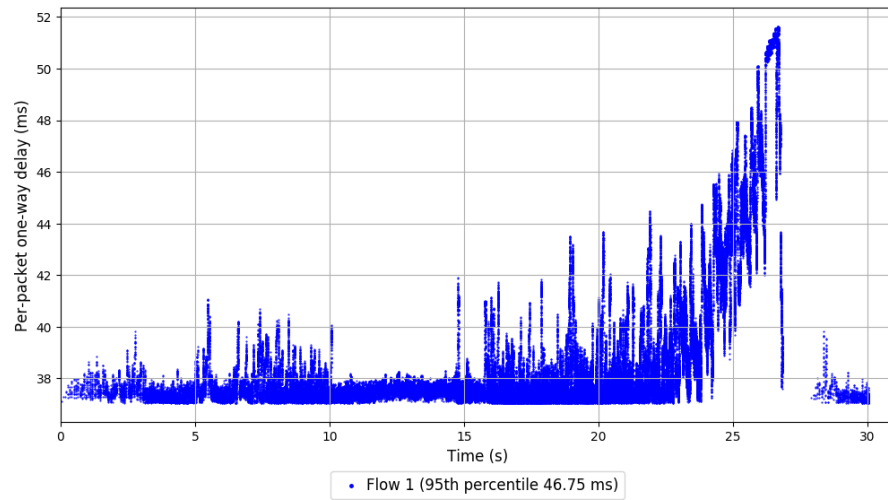
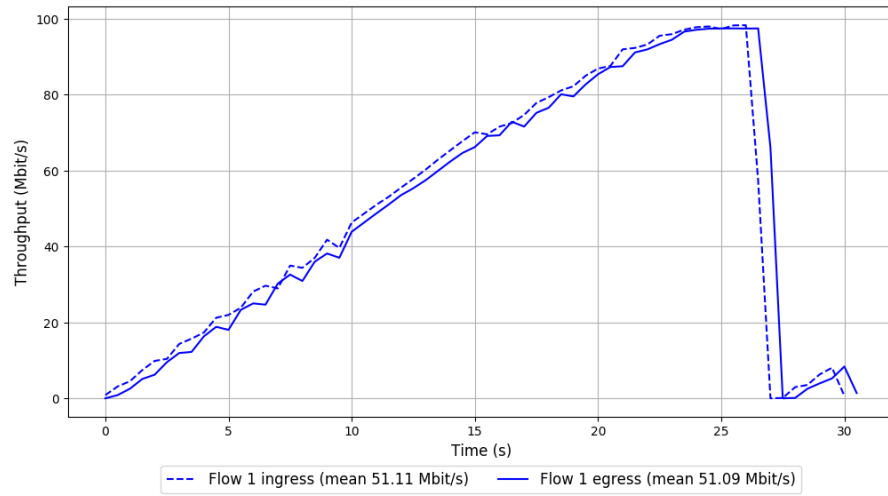
Average throughput: 51.09 Mbit/s

95th percentile per-packet one-way delay: 46.749 ms

Loss rate: 0.04%



### Run 5: Report of LEDBAT — Data Link

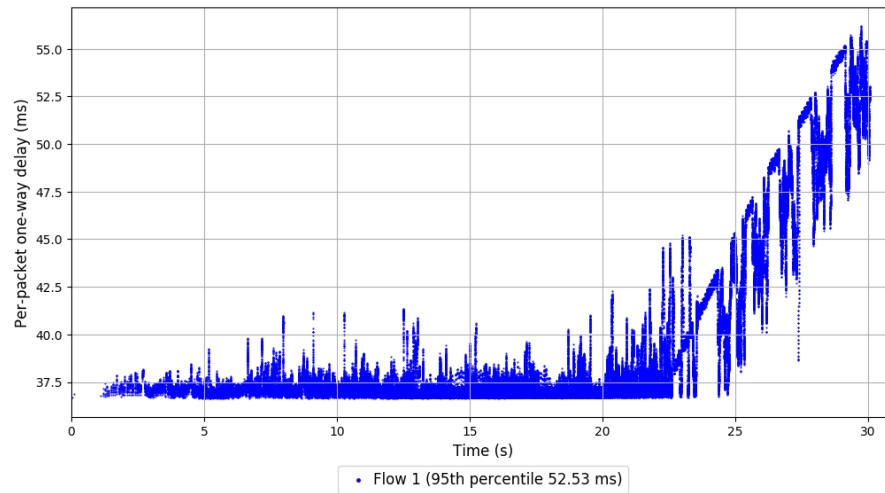
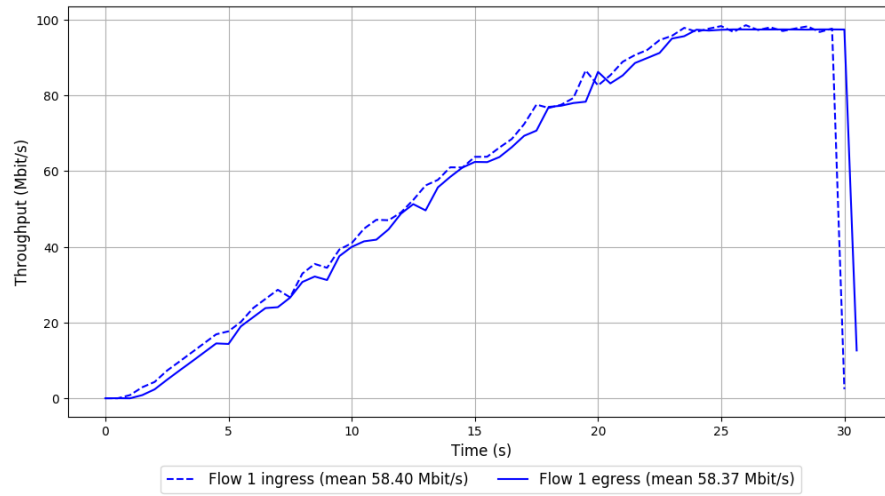


Run 6: Statistics of LEDBAT

Start at: 2018-06-29 14:49:36  
End at: 2018-06-29 14:50:07  
Local clock offset: -2.966 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-06-29 16:59:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 58.37 Mbit/s  
95th percentile per-packet one-way delay: 52.535 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 58.37 Mbit/s  
95th percentile per-packet one-way delay: 52.535 ms  
Loss rate: 0.00%

## Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-29 15:13:44

End at: 2018-06-29 15:14:14

Local clock offset: -2.426 ms

Remote clock offset: 3.731 ms

# Below is generated by plot.py at 2018-06-29 16:59:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.31 Mbit/s

95th percentile per-packet one-way delay: 57.111 ms

Loss rate: 0.00%

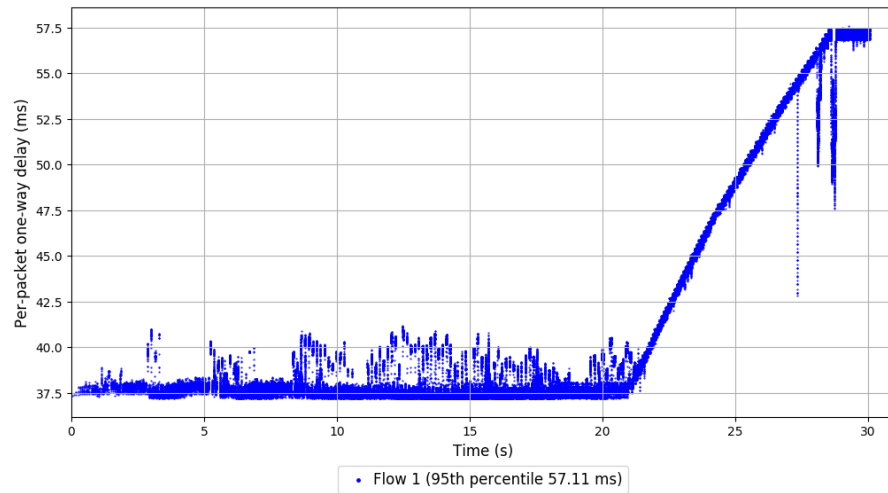
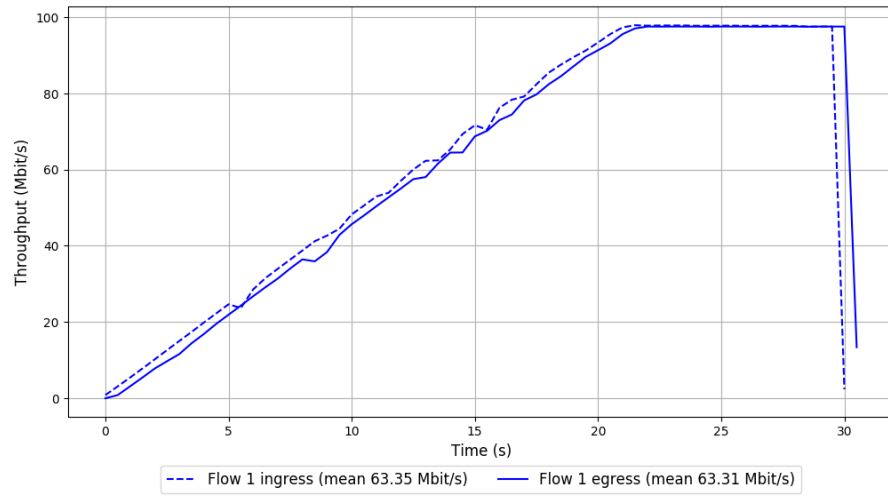
-- Flow 1:

Average throughput: 63.31 Mbit/s

95th percentile per-packet one-way delay: 57.111 ms

Loss rate: 0.00%

## Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-29 15:37:53

End at: 2018-06-29 15:38:23

Local clock offset: 1.924 ms

Remote clock offset: 4.28 ms

# Below is generated by plot.py at 2018-06-29 16:59:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 47.395 ms

Loss rate: 0.04%

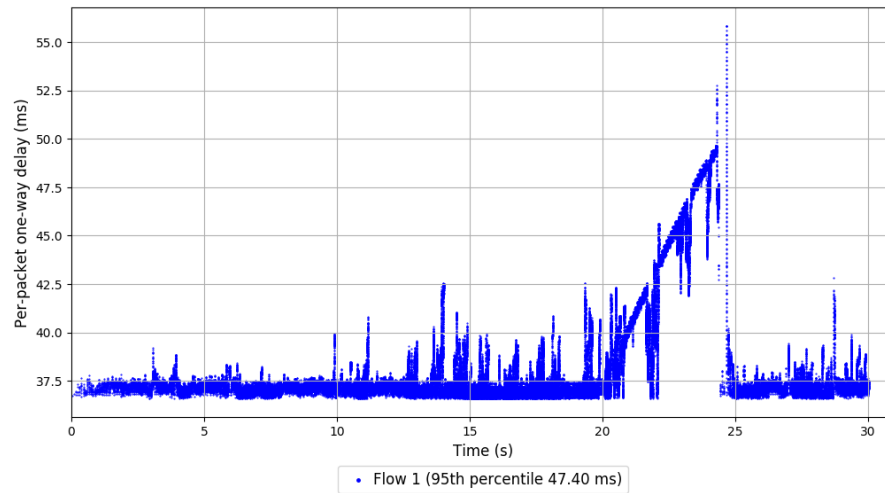
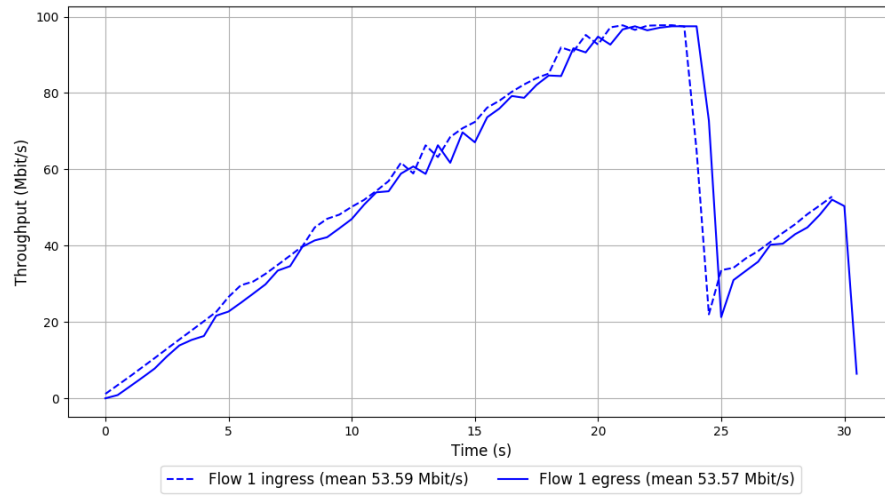
-- Flow 1:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 47.395 ms

Loss rate: 0.04%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-29 16:02:52

End at: 2018-06-29 16:03:22

Local clock offset: -1.297 ms

Remote clock offset: 4.3 ms

# Below is generated by plot.py at 2018-06-29 17:00:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.34 Mbit/s

95th percentile per-packet one-way delay: 37.809 ms

Loss rate: 0.00%

-- Flow 1:

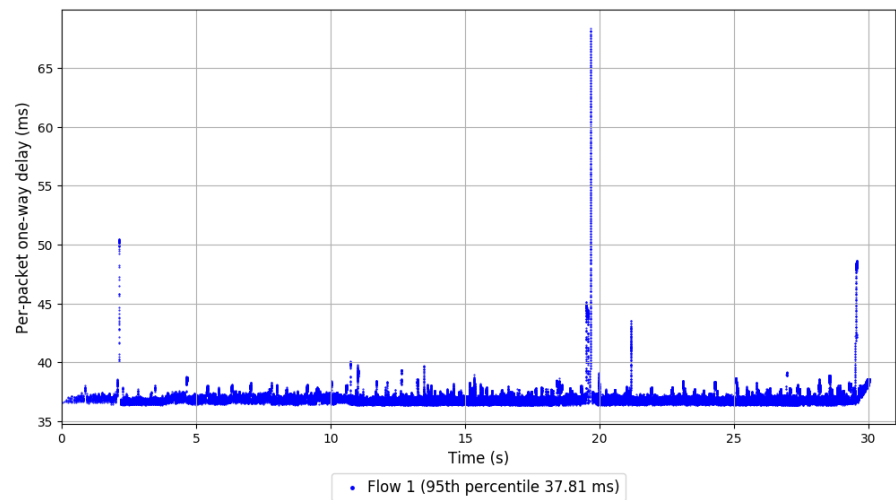
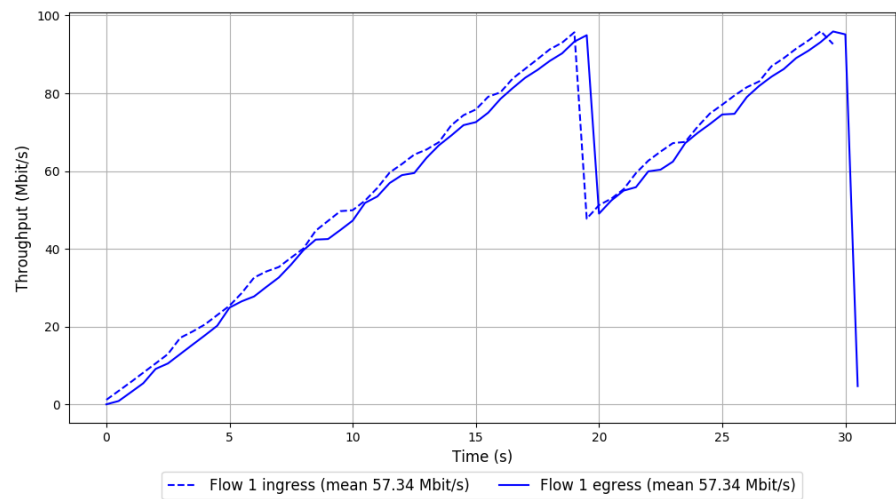
Average throughput: 57.34 Mbit/s

95th percentile per-packet one-way delay: 37.809 ms

Loss rate: 0.00%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-29 16:26:38

End at: 2018-06-29 16:27:08

Local clock offset: -1.615 ms

Remote clock offset: 4.45 ms

# Below is generated by plot.py at 2018-06-29 17:00:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.82 Mbit/s

95th percentile per-packet one-way delay: 48.062 ms

Loss rate: 0.03%

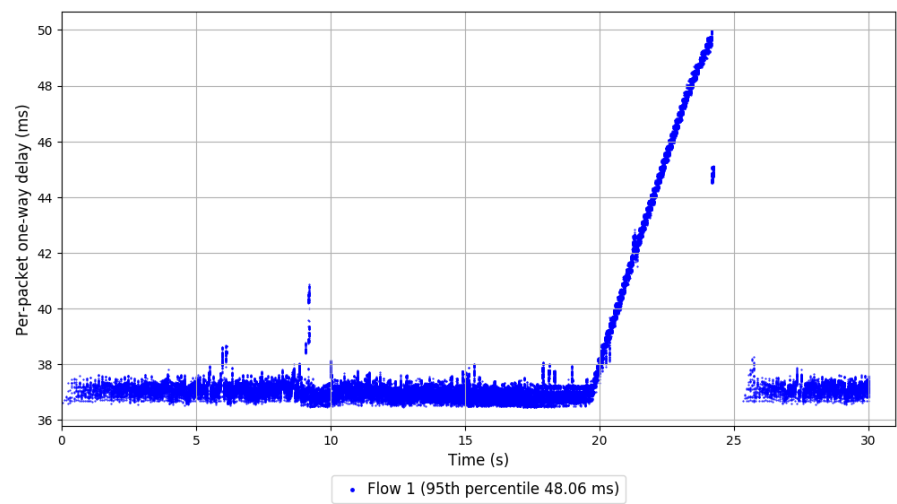
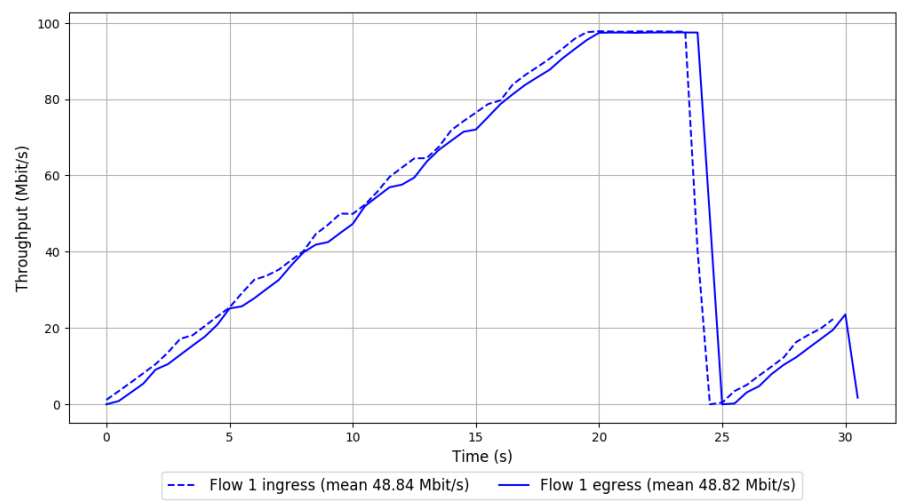
-- Flow 1:

Average throughput: 48.82 Mbit/s

95th percentile per-packet one-way delay: 48.062 ms

Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

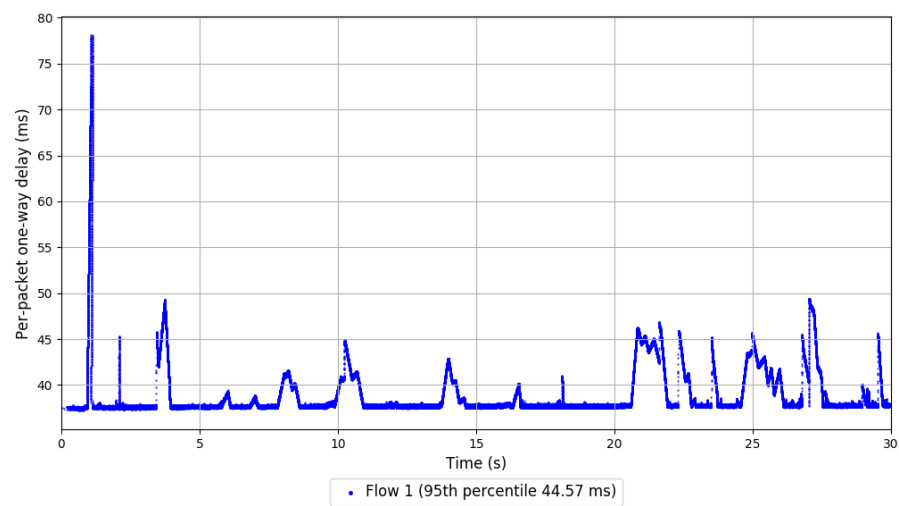
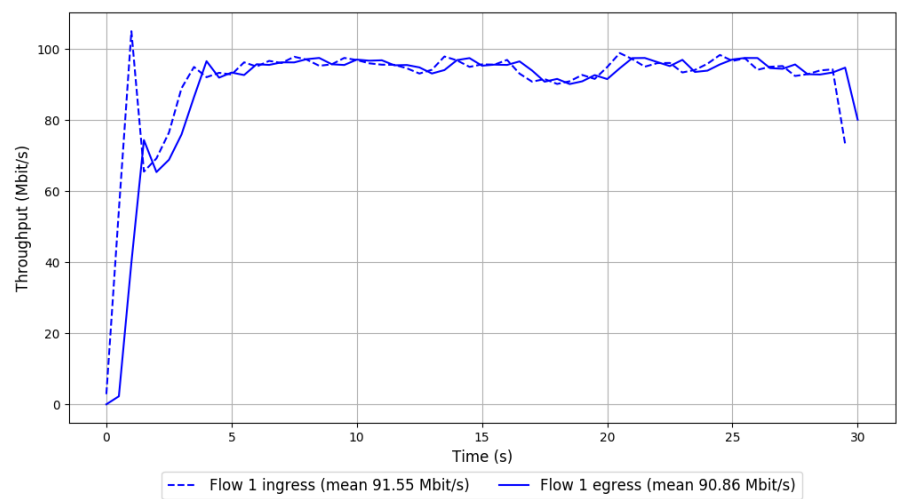


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-29 12:53:57
End at: 2018-06-29 12:54:27
Local clock offset: -5.852 ms
Remote clock offset: 5.823 ms

# Below is generated by plot.py at 2018-06-29 17:00:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.86 Mbit/s
95th percentile per-packet one-way delay: 44.572 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 90.86 Mbit/s
95th percentile per-packet one-way delay: 44.572 ms
Loss rate: 0.75%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-29 13:17:47

End at: 2018-06-29 13:18:17

Local clock offset: -3.764 ms

Remote clock offset: 4.605 ms

# Below is generated by plot.py at 2018-06-29 17:00:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 70.814 ms

Loss rate: 9.25%

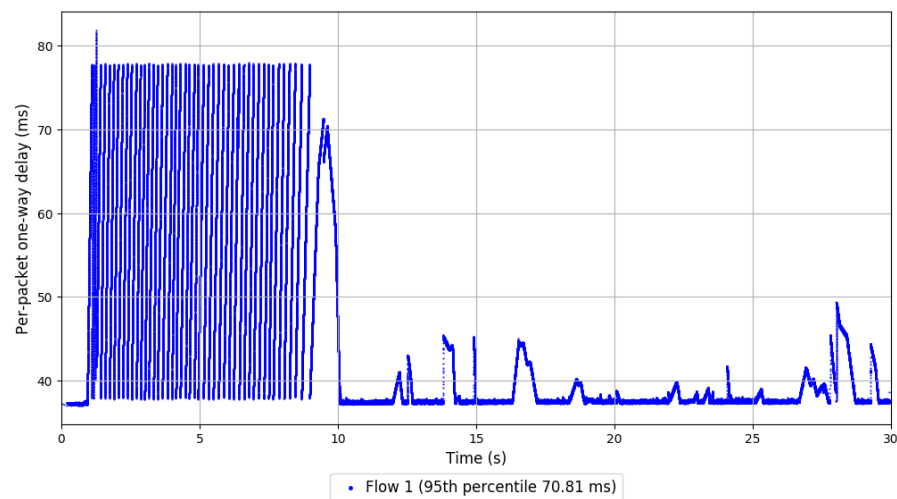
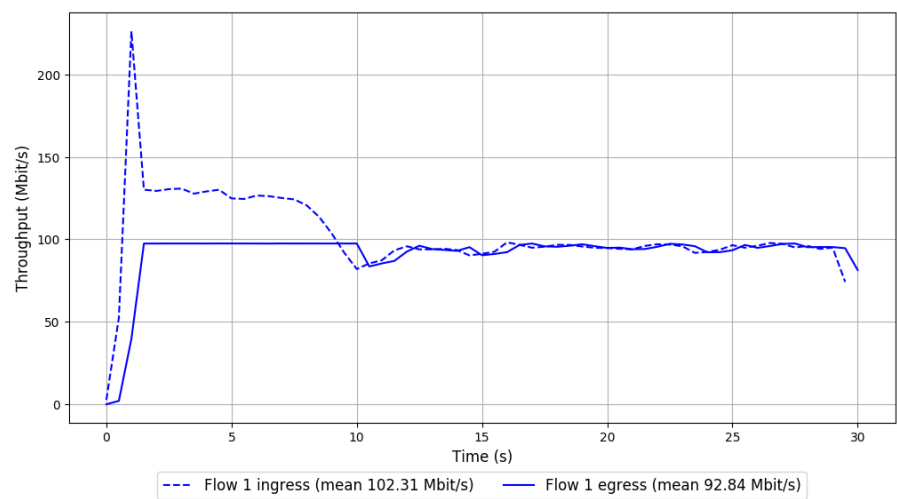
-- Flow 1:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 70.814 ms

Loss rate: 9.25%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-29 13:41:10

End at: 2018-06-29 13:41:40

Local clock offset: -5.018 ms

Remote clock offset: 2.074 ms

# Below is generated by plot.py at 2018-06-29 17:00:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 47.956 ms

Loss rate: 0.76%

-- Flow 1:

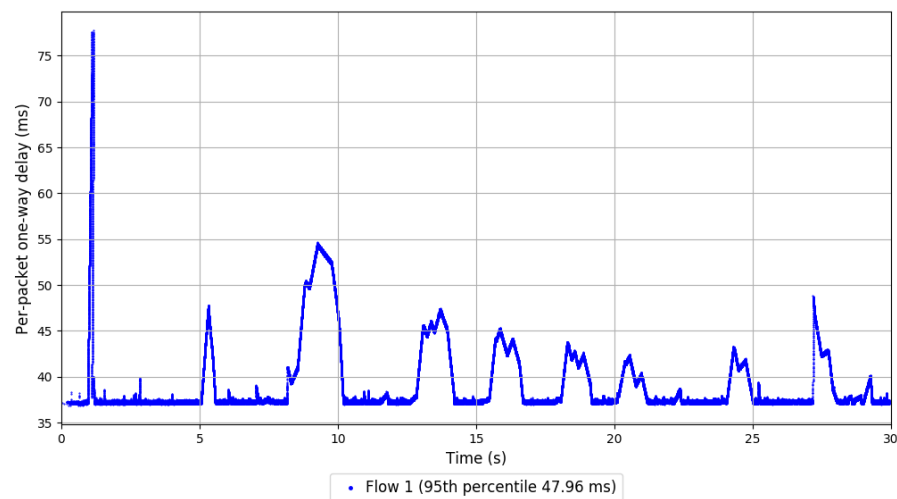
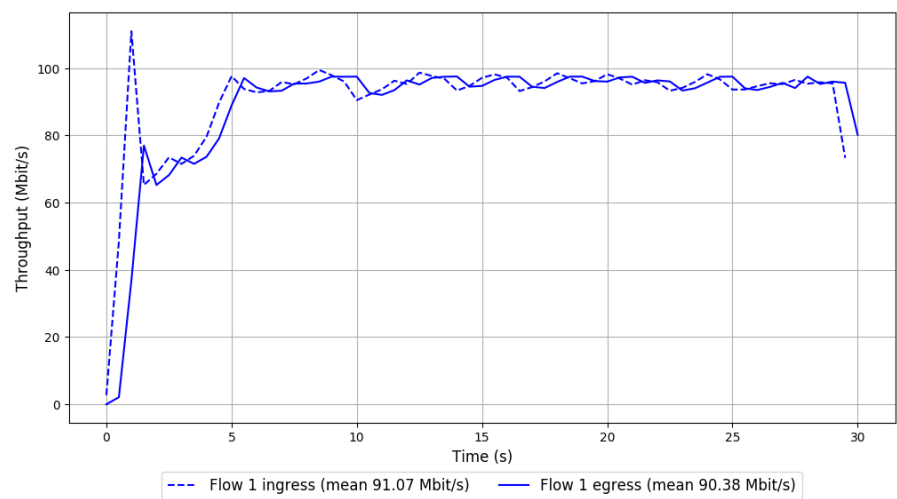
Average throughput: 90.38 Mbit/s

95th percentile per-packet one-way delay: 47.956 ms

Loss rate: 0.76%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-29 14:04:56

End at: 2018-06-29 14:05:26

Local clock offset: -0.426 ms

Remote clock offset: 3.456 ms

# Below is generated by plot.py at 2018-06-29 17:00:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.15 Mbit/s

95th percentile per-packet one-way delay: 38.447 ms

Loss rate: 1.27%

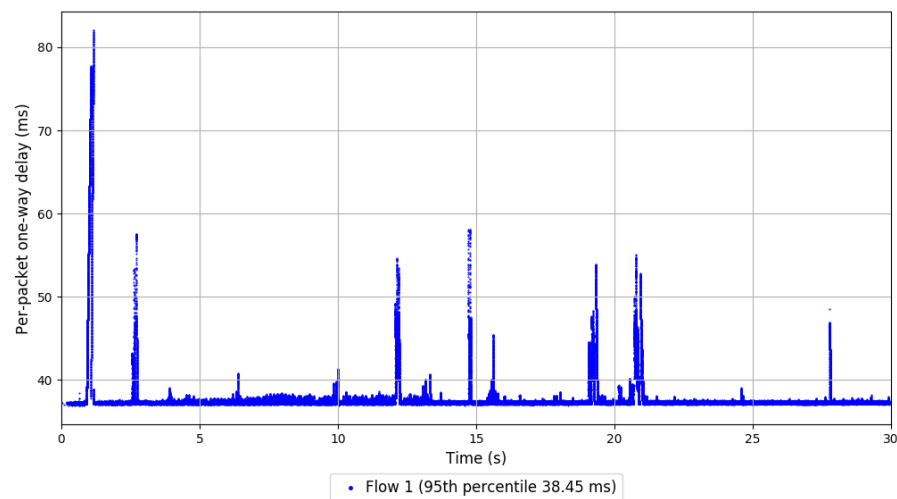
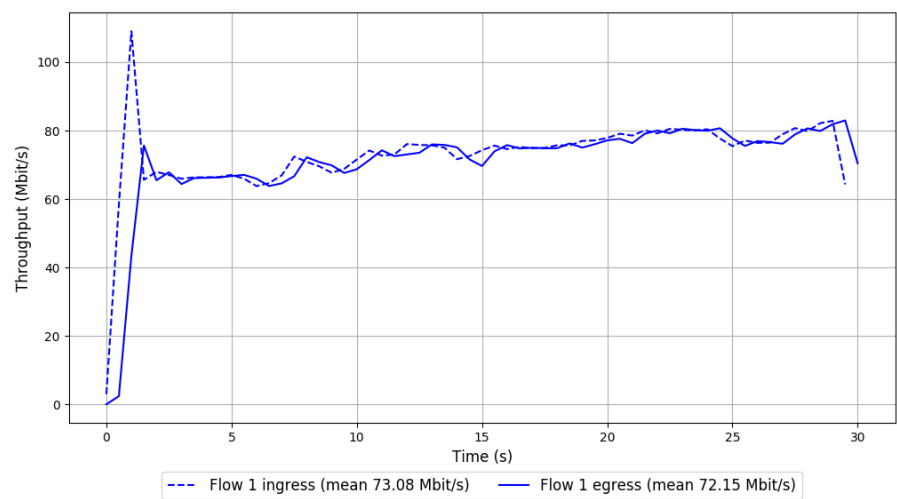
-- Flow 1:

Average throughput: 72.15 Mbit/s

95th percentile per-packet one-way delay: 38.447 ms

Loss rate: 1.27%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-29 14:29:36

End at: 2018-06-29 14:30:06

Local clock offset: -2.297 ms

Remote clock offset: 1.274 ms

# Below is generated by plot.py at 2018-06-29 17:00:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 36.767 ms

Loss rate: 0.00%

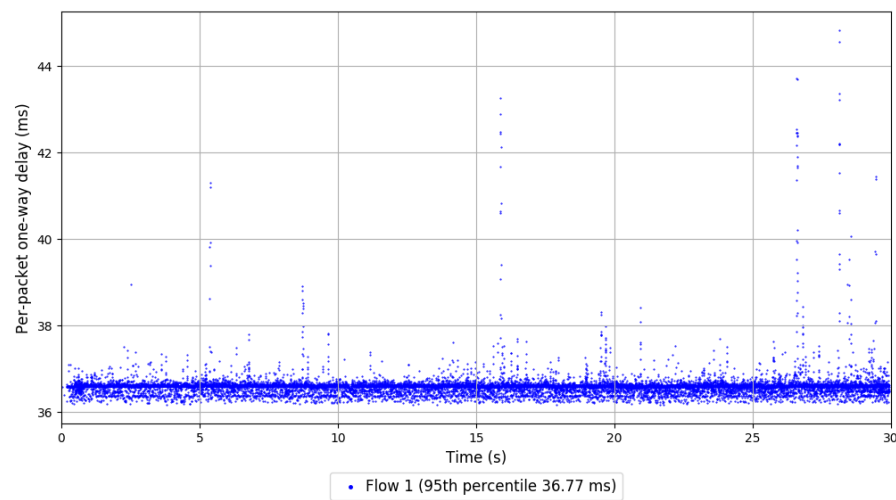
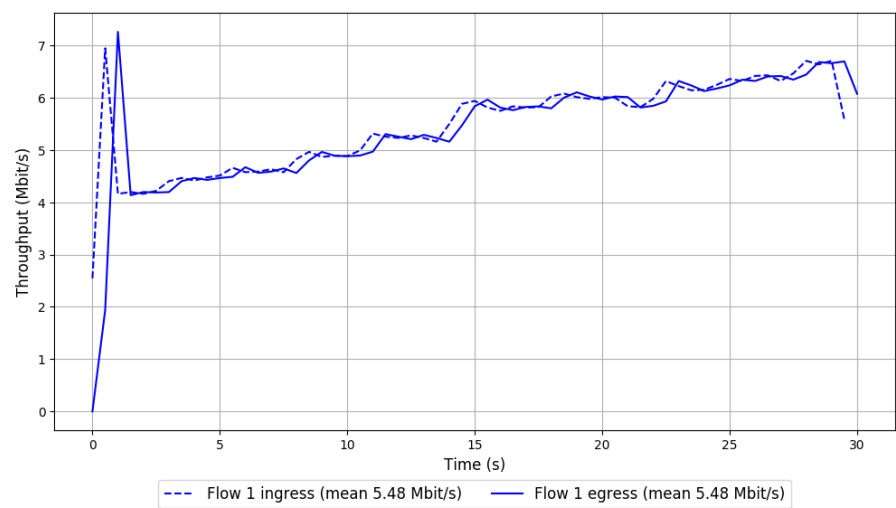
-- Flow 1:

Average throughput: 5.48 Mbit/s

95th percentile per-packet one-way delay: 36.767 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-29 14:54:00

End at: 2018-06-29 14:54:30

Local clock offset: -2.635 ms

Remote clock offset: 0.574 ms

# Below is generated by plot.py at 2018-06-29 17:01:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 45.839 ms

Loss rate: 0.75%

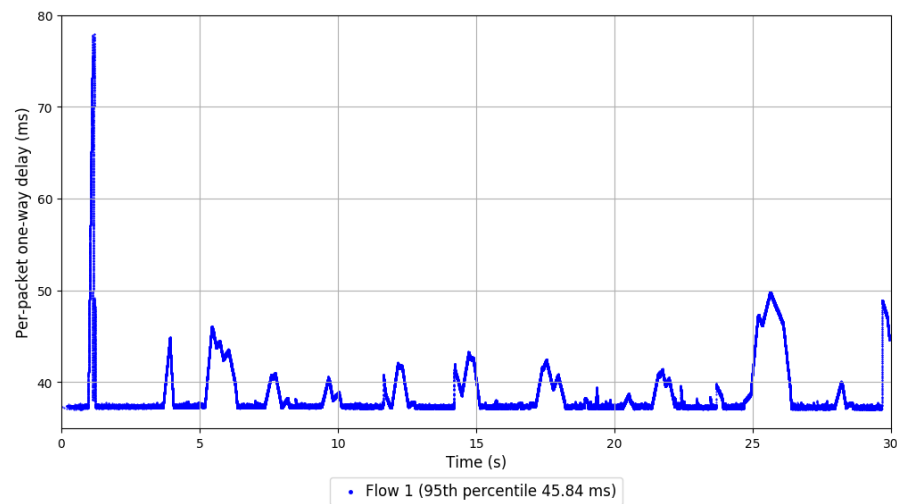
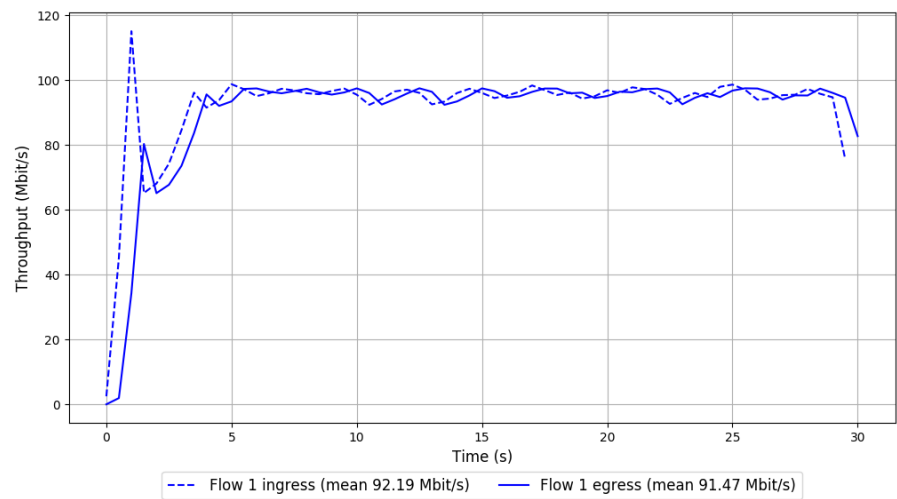
-- Flow 1:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 45.839 ms

Loss rate: 0.75%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-29 15:17:58

End at: 2018-06-29 15:18:28

Local clock offset: -1.56 ms

Remote clock offset: 3.882 ms

# Below is generated by plot.py at 2018-06-29 17:01:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 44.366 ms

Loss rate: 0.80%

-- Flow 1:

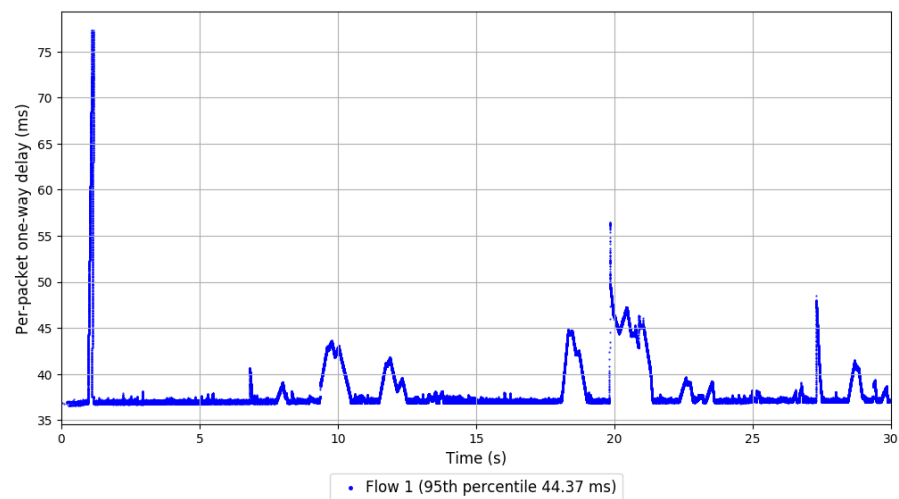
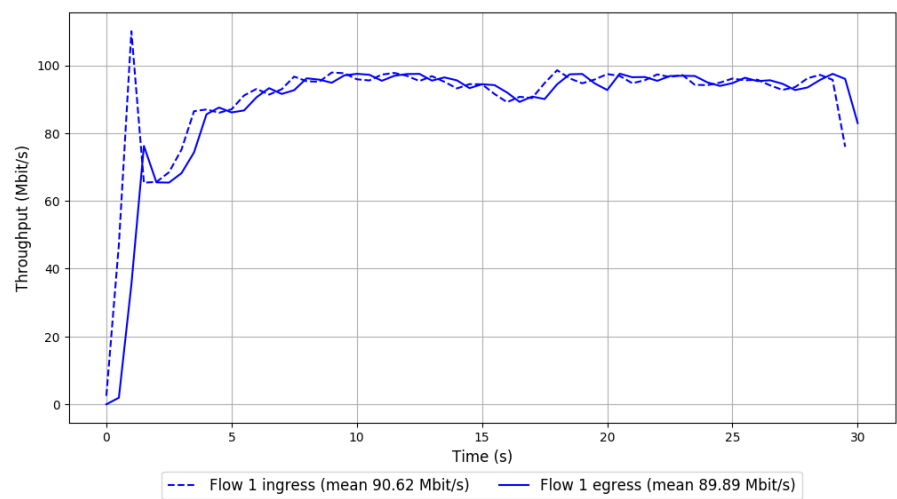
Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 44.366 ms

Loss rate: 0.80%



Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-29 15:42:36

End at: 2018-06-29 15:43:06

Local clock offset: 2.125 ms

Remote clock offset: 4.208 ms

# Below is generated by plot.py at 2018-06-29 17:01:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 37.557 ms

Loss rate: 0.00%

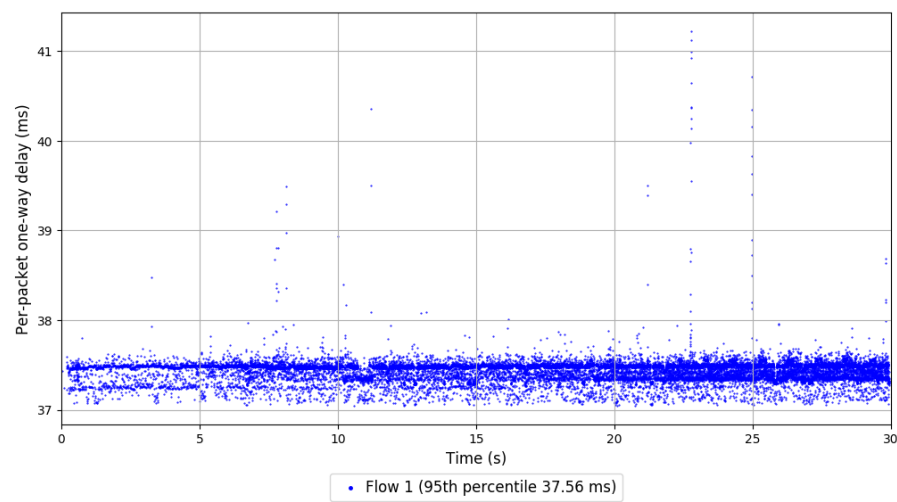
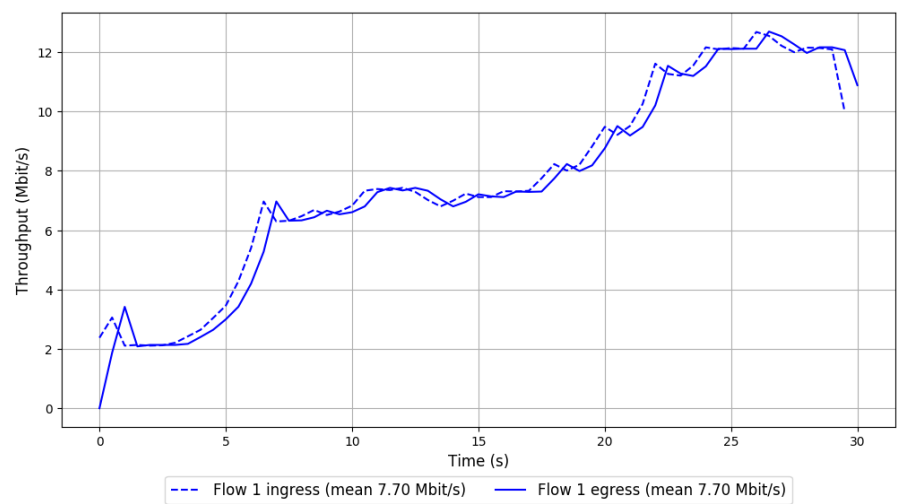
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 37.557 ms

Loss rate: 0.00%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-29 16:06:59

End at: 2018-06-29 16:07:29

Local clock offset: -1.588 ms

Remote clock offset: 4.292 ms

# Below is generated by plot.py at 2018-06-29 17:01:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.92 Mbit/s

95th percentile per-packet one-way delay: 60.323 ms

Loss rate: 0.78%

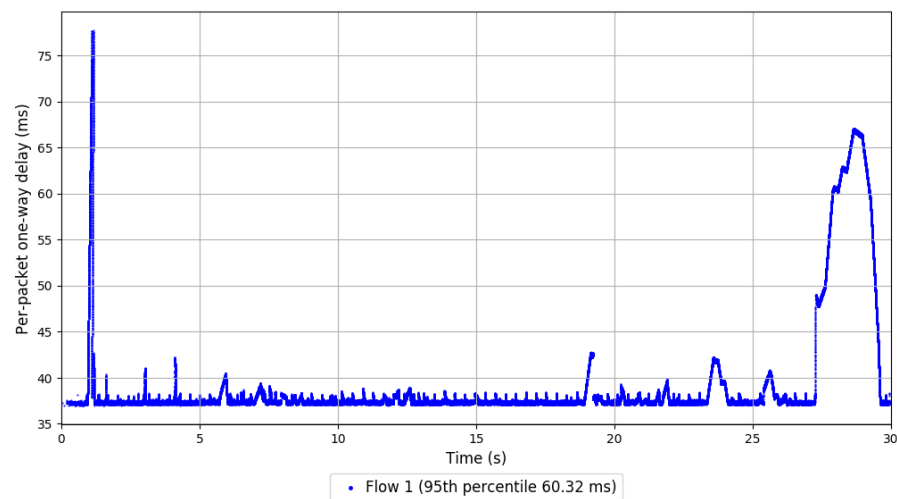
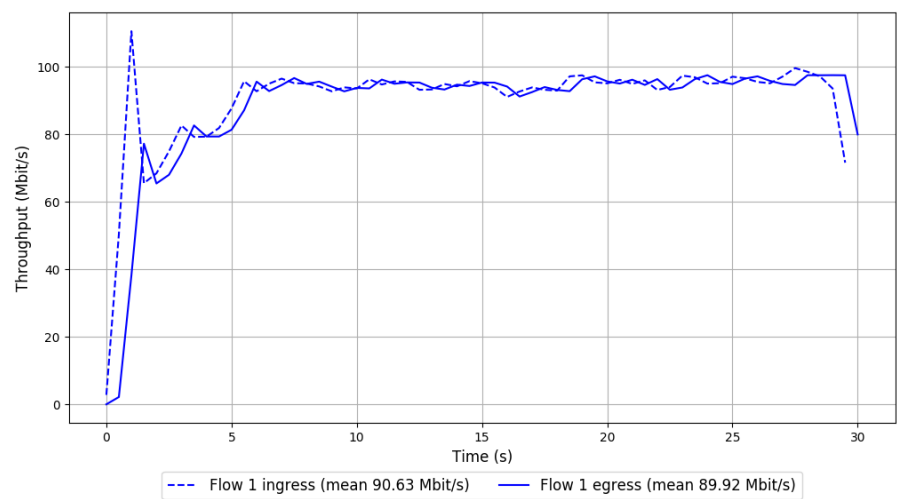
-- Flow 1:

Average throughput: 89.92 Mbit/s

95th percentile per-packet one-way delay: 60.323 ms

Loss rate: 0.78%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-29 16:30:48

End at: 2018-06-29 16:31:18

Local clock offset: -1.59 ms

Remote clock offset: 4.426 ms

# Below is generated by plot.py at 2018-06-29 17:01:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.74 Mbit/s

95th percentile per-packet one-way delay: 44.014 ms

Loss rate: 0.78%

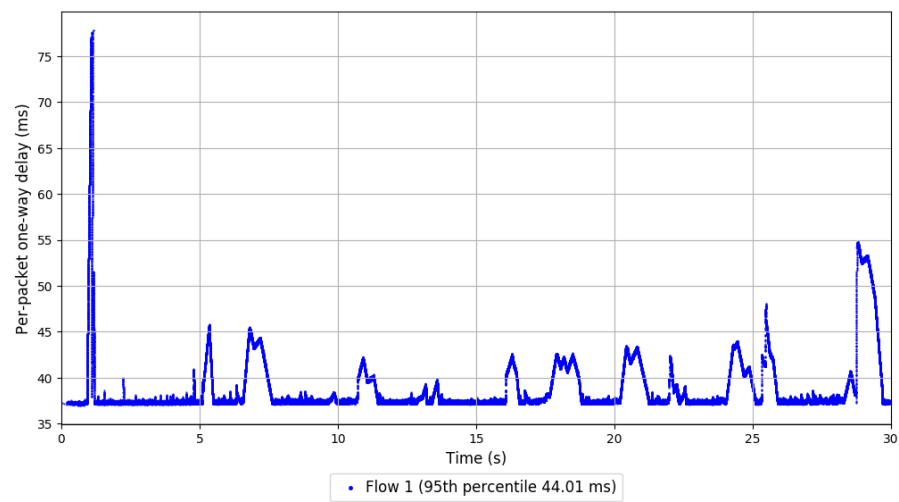
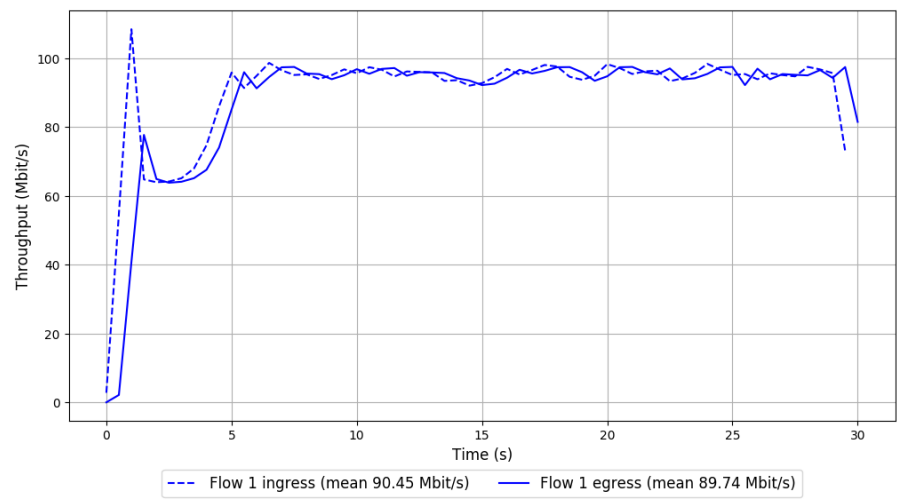
-- Flow 1:

Average throughput: 89.74 Mbit/s

95th percentile per-packet one-way delay: 44.014 ms

Loss rate: 0.78%

Run 10: Report of PCC-Allegro — Data Link



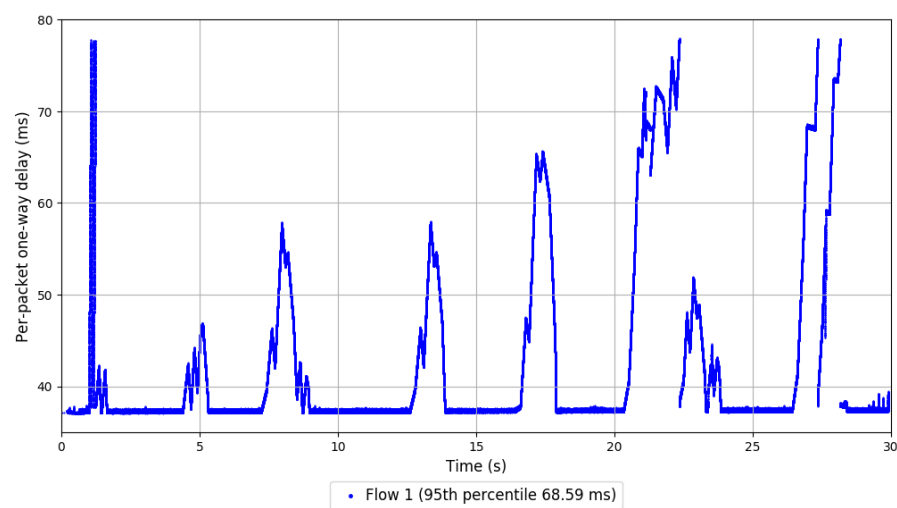
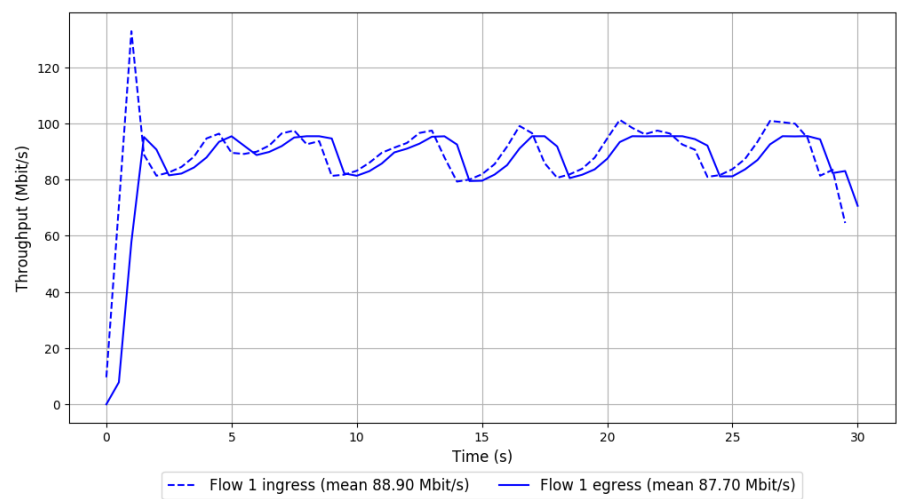
```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-29 13:09:39
End at: 2018-06-29 13:10:09
Local clock offset: -3.442 ms
Remote clock offset: 6.82 ms

# Below is generated by plot.py at 2018-06-29 17:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.70 Mbit/s
95th percentile per-packet one-way delay: 68.595 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 87.70 Mbit/s
95th percentile per-packet one-way delay: 68.595 ms
Loss rate: 1.36%
```



Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-29 13:32:56

End at: 2018-06-29 13:33:26

Local clock offset: -4.193 ms

Remote clock offset: 2.816 ms

# Below is generated by plot.py at 2018-06-29 17:02:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.72 Mbit/s

95th percentile per-packet one-way delay: 69.795 ms

Loss rate: 1.28%

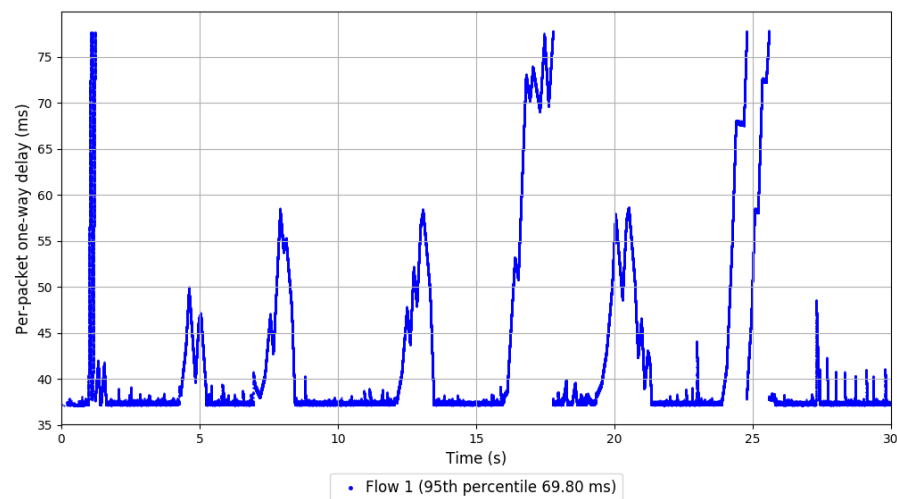
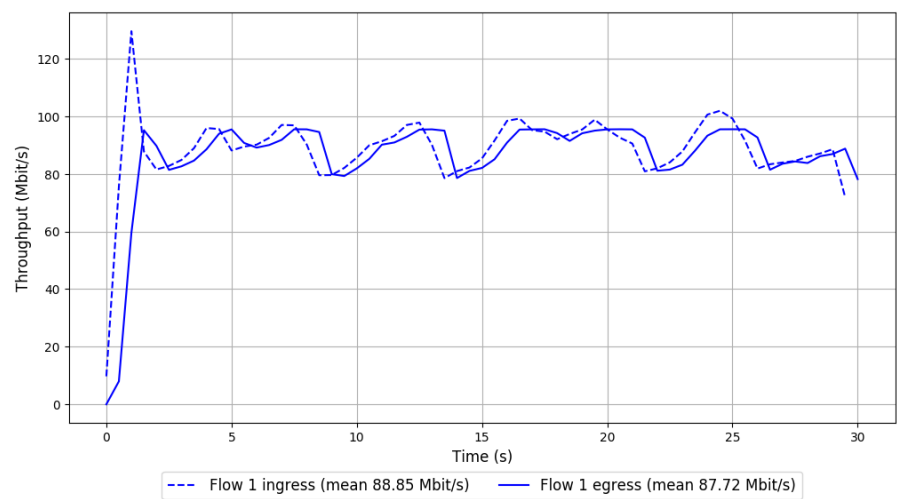
-- Flow 1:

Average throughput: 87.72 Mbit/s

95th percentile per-packet one-way delay: 69.795 ms

Loss rate: 1.28%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-29 13:56:17

End at: 2018-06-29 13:56:47

Local clock offset: -1.291 ms

Remote clock offset: 3.003 ms

# Below is generated by plot.py at 2018-06-29 17:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 62.817 ms

Loss rate: 0.97%

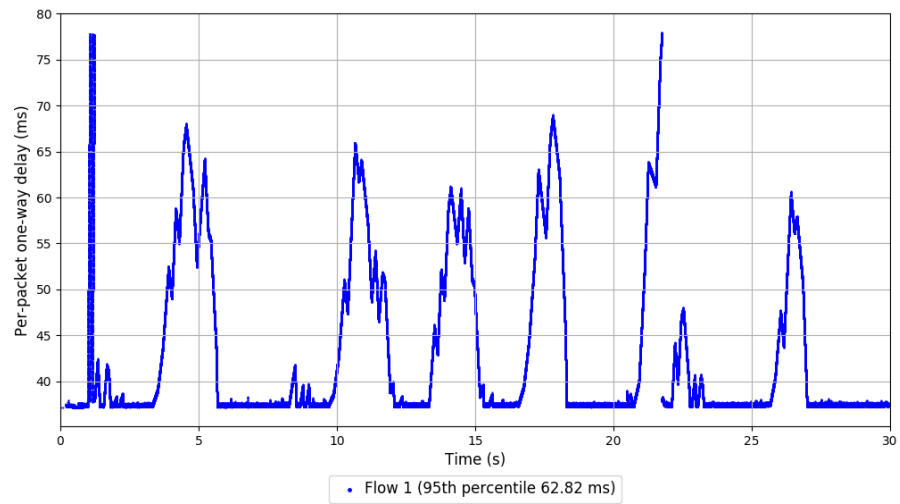
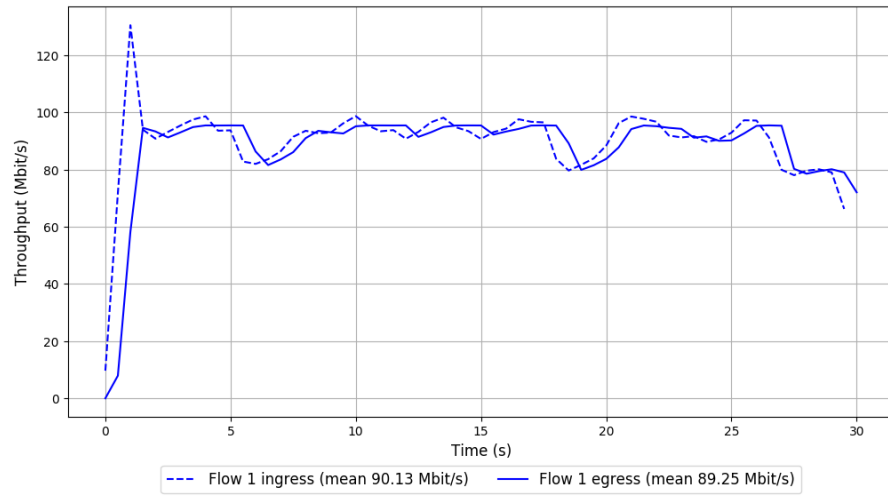
-- Flow 1:

Average throughput: 89.25 Mbit/s

95th percentile per-packet one-way delay: 62.817 ms

Loss rate: 0.97%

### Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-29 14:21:19

End at: 2018-06-29 14:21:49

Local clock offset: -1.273 ms

Remote clock offset: 2.066 ms

# Below is generated by plot.py at 2018-06-29 17:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.67 Mbit/s

95th percentile per-packet one-way delay: 54.820 ms

Loss rate: 0.01%

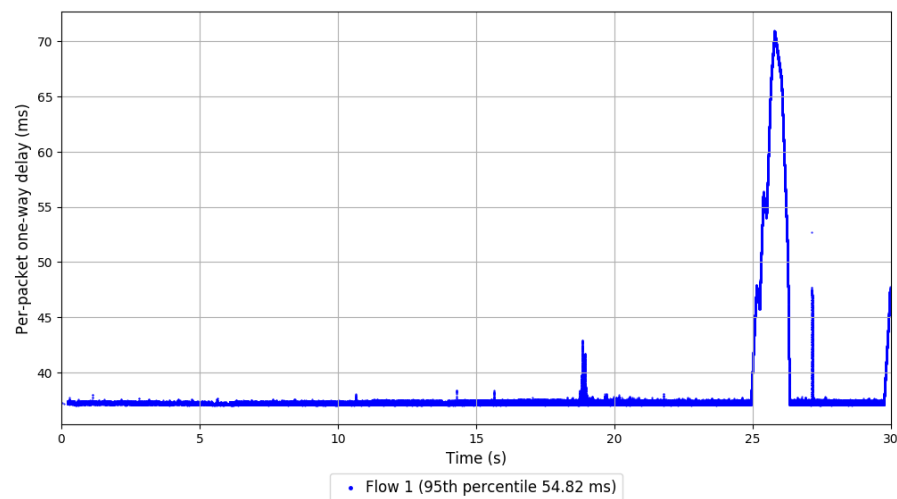
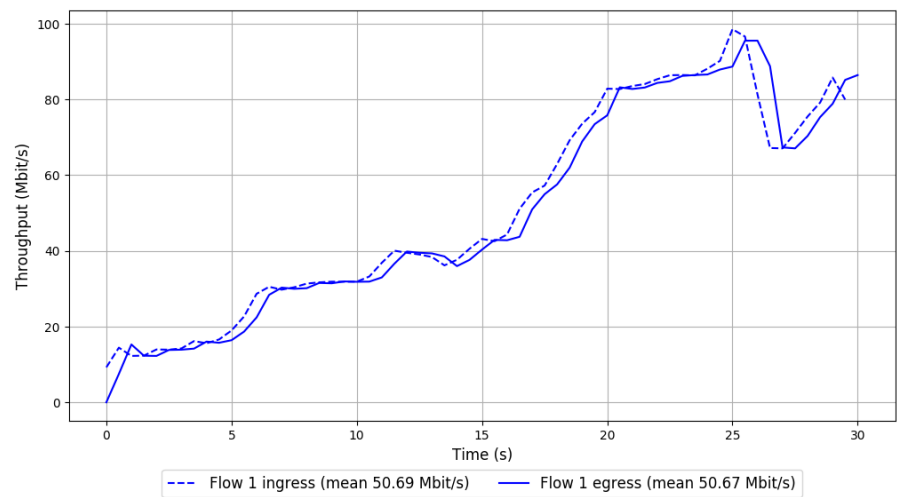
-- Flow 1:

Average throughput: 50.67 Mbit/s

95th percentile per-packet one-way delay: 54.820 ms

Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-29 14:45:47

End at: 2018-06-29 14:46:17

Local clock offset: -3.371 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-06-29 17:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 36.860 ms

Loss rate: 0.06%

-- Flow 1:

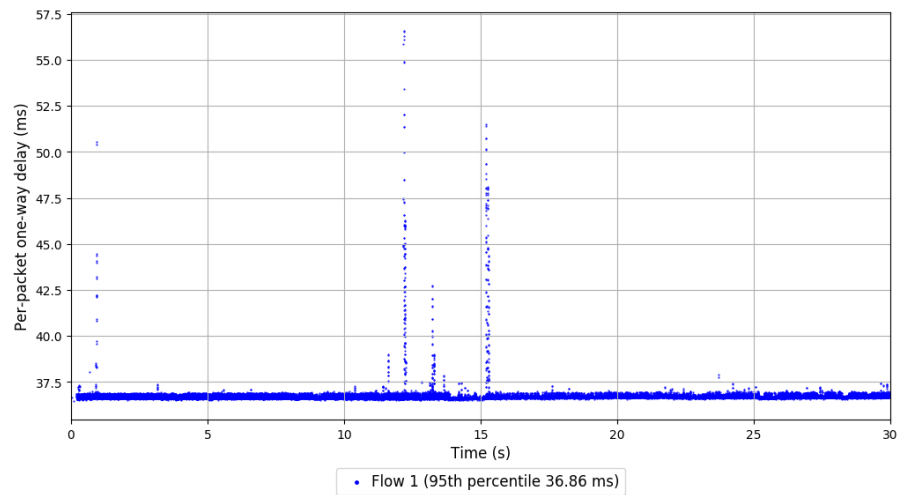
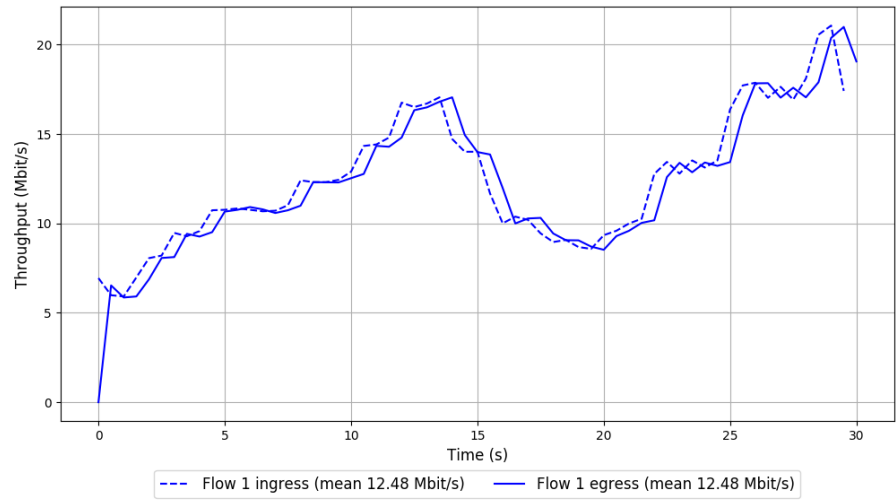
Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 36.860 ms

Loss rate: 0.06%



### Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-29 15:09:31

End at: 2018-06-29 15:10:01

Local clock offset: -2.29 ms

Remote clock offset: 3.633 ms

# Below is generated by plot.py at 2018-06-29 17:03:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 57.536 ms

Loss rate: 1.14%

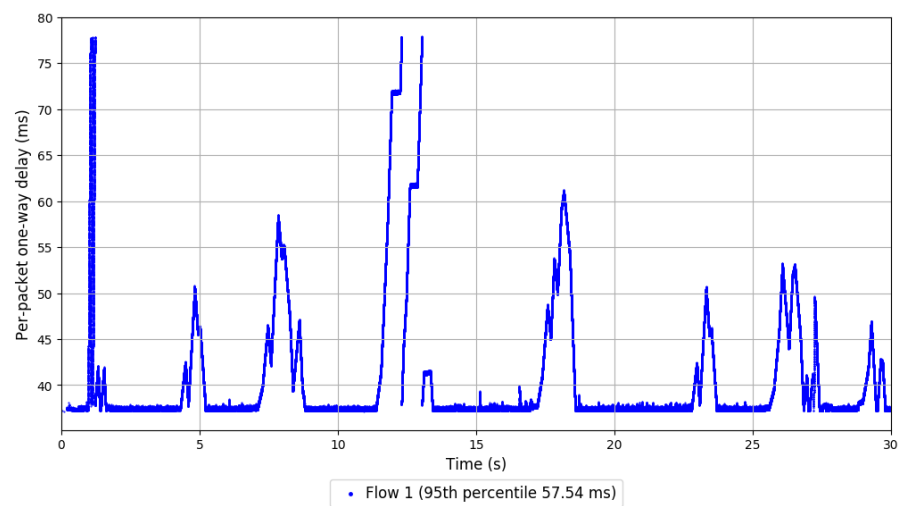
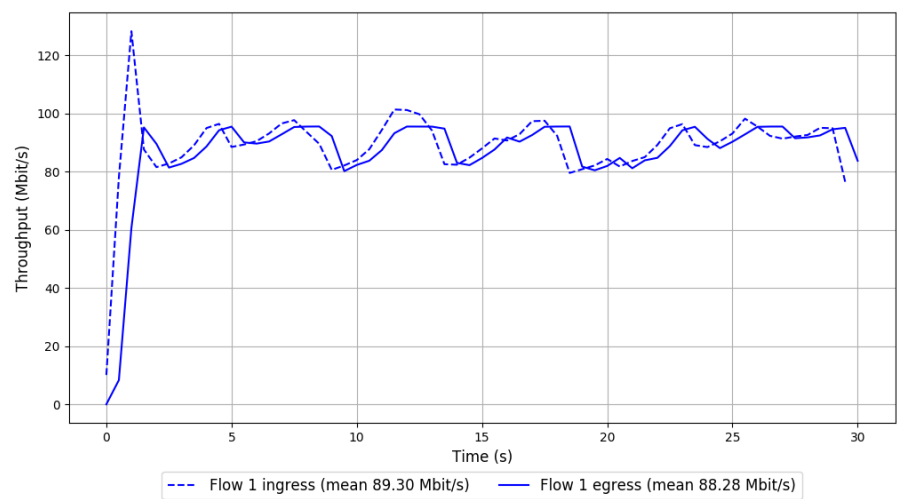
-- Flow 1:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 57.536 ms

Loss rate: 1.14%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-29 15:33:48

End at: 2018-06-29 15:34:18

Local clock offset: 1.499 ms

Remote clock offset: 4.203 ms

# Below is generated by plot.py at 2018-06-29 17:03:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 62.064 ms

Loss rate: 0.99%

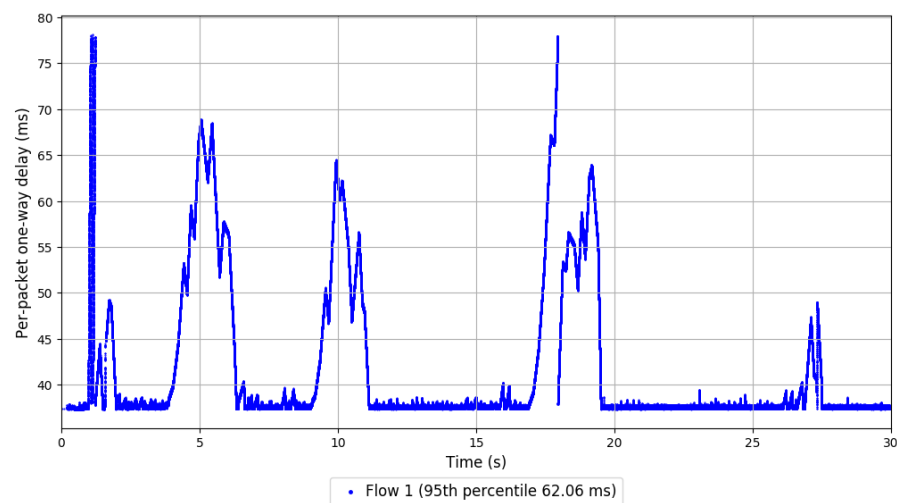
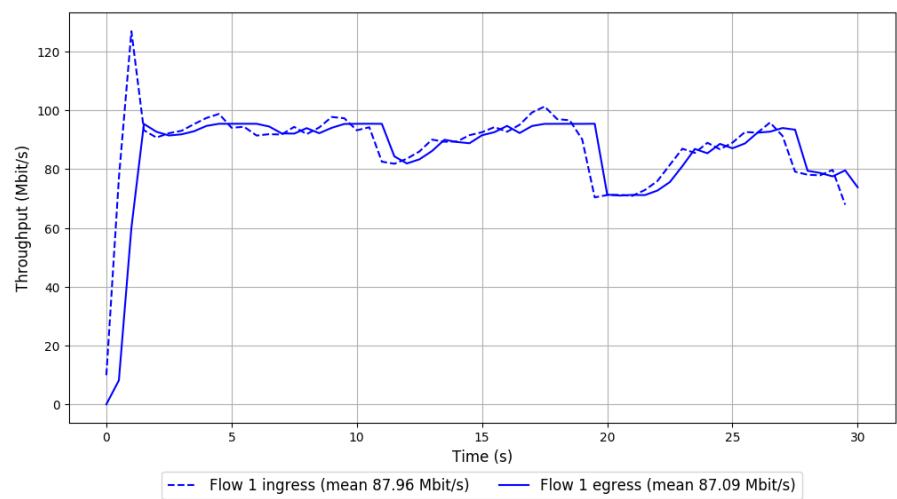
-- Flow 1:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 62.064 ms

Loss rate: 0.99%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-29 15:58:51

End at: 2018-06-29 15:59:21

Local clock offset: -0.913 ms

Remote clock offset: 4.239 ms

# Below is generated by plot.py at 2018-06-29 17:03:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 64.471 ms

Loss rate: 0.86%

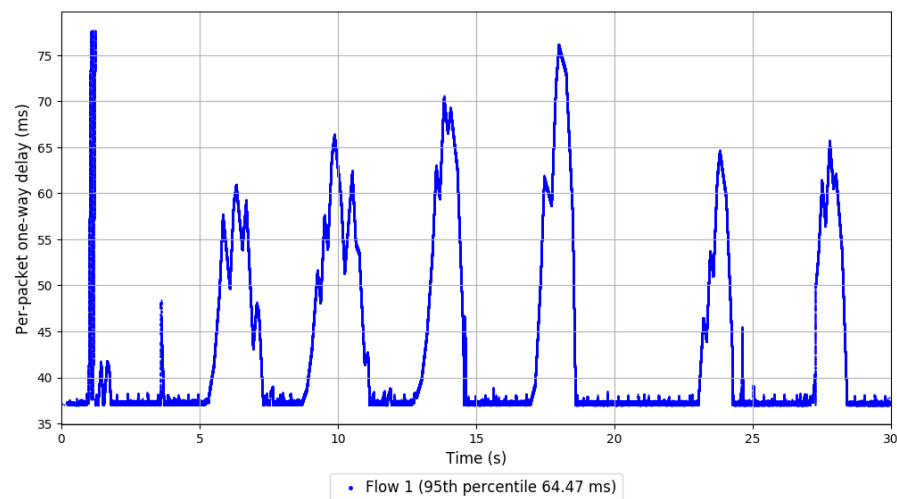
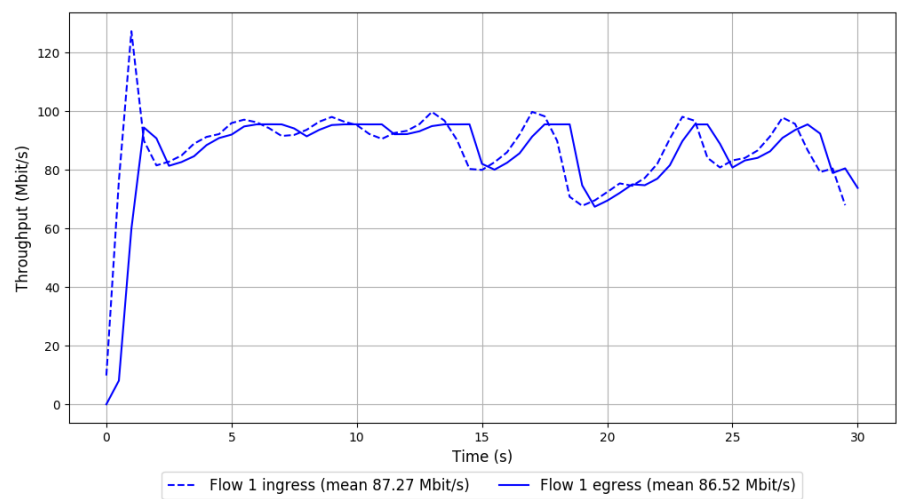
-- Flow 1:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 64.471 ms

Loss rate: 0.86%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-29 16:22:42

End at: 2018-06-29 16:23:12

Local clock offset: -1.782 ms

Remote clock offset: 4.398 ms

# Below is generated by plot.py at 2018-06-29 17:03:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 66.785 ms

Loss rate: 1.32%

-- Flow 1:

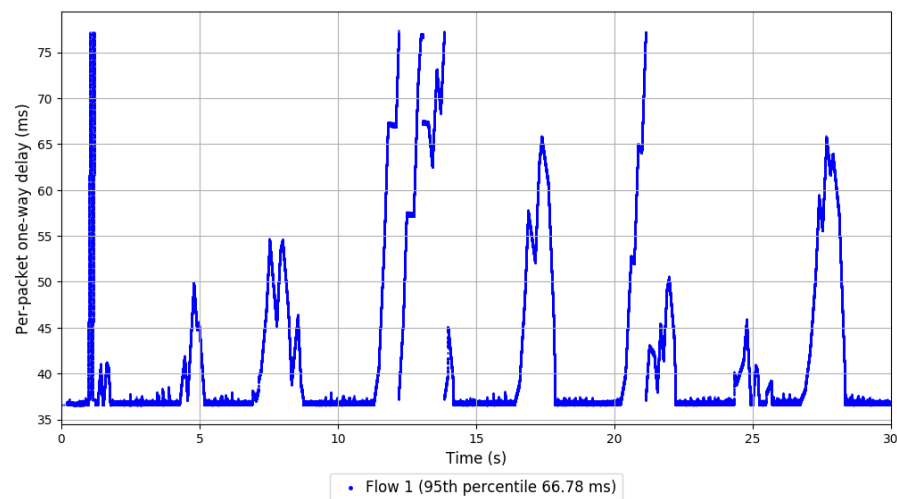
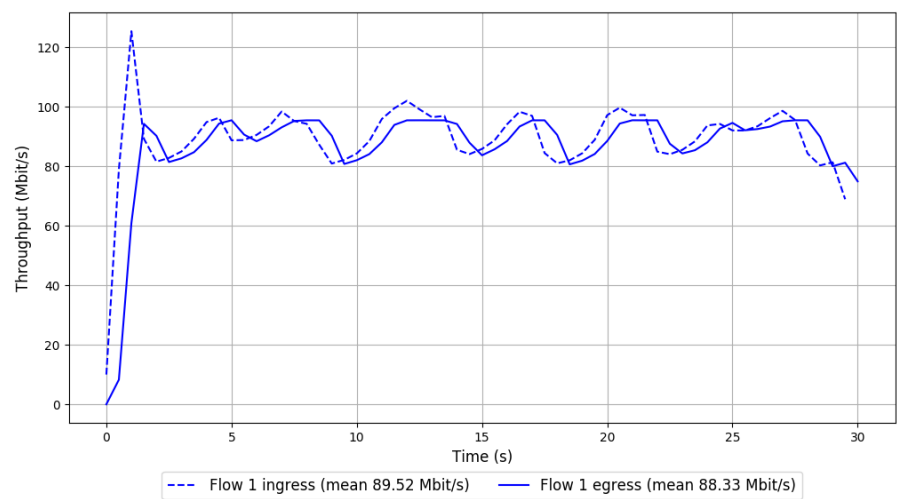
Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 66.785 ms

Loss rate: 1.32%



Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-29 16:45:46

End at: 2018-06-29 16:46:16

Local clock offset: -1.858 ms

Remote clock offset: 6.977 ms

# Below is generated by plot.py at 2018-06-29 17:04:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 64.502 ms

Loss rate: 0.87%

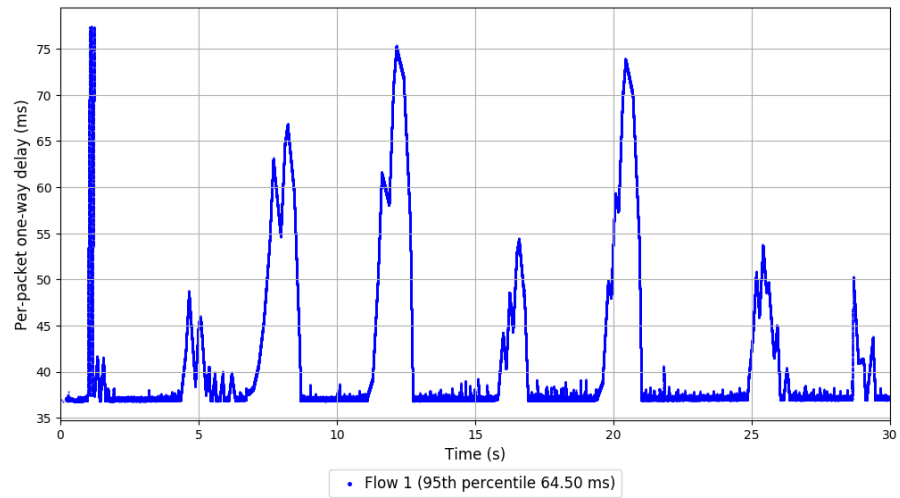
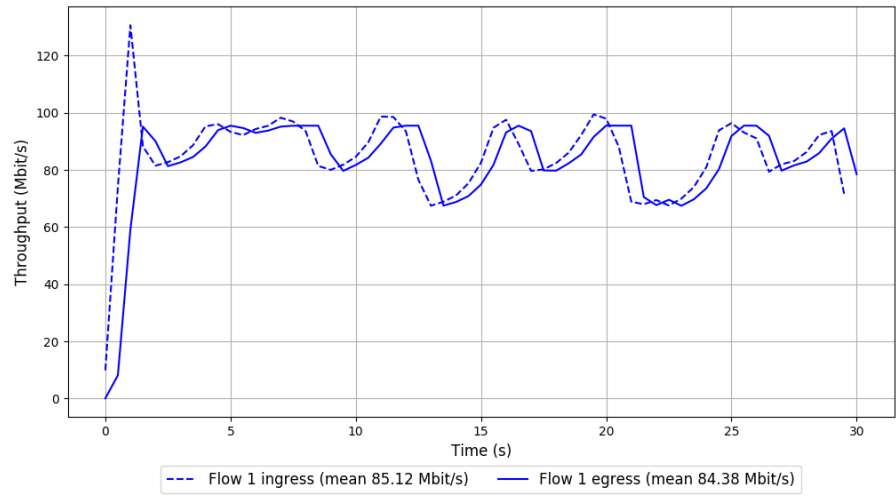
-- Flow 1:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 64.502 ms

Loss rate: 0.87%

# Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

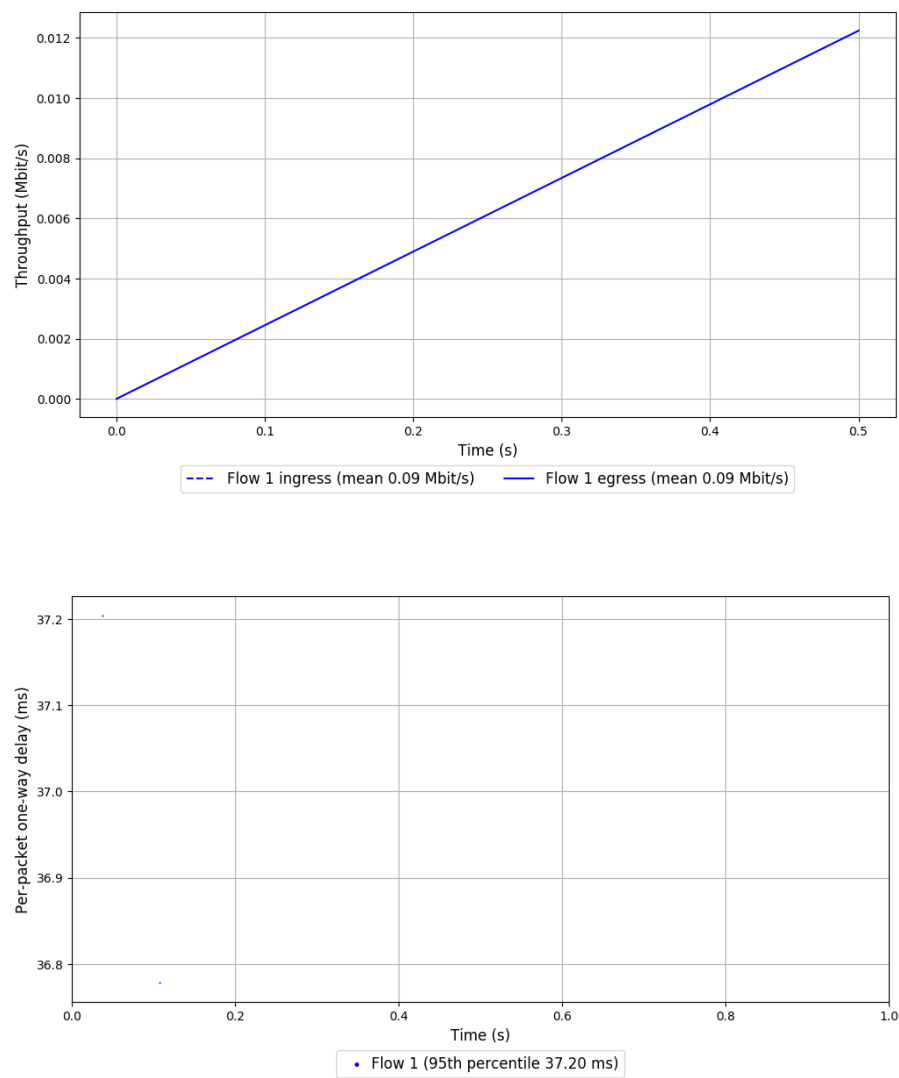
Start at: 2018-06-29 12:51:13

End at: 2018-06-29 12:51:43

Local clock offset: -7.754 ms

Remote clock offset: 5.358 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-29 13:14:59

End at: 2018-06-29 13:15:29

Local clock offset: -3.862 ms

Remote clock offset: 5.266 ms

# Below is generated by plot.py at 2018-06-29 17:04:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.33 Mbit/s

95th percentile per-packet one-way delay: 69.729 ms

Loss rate: 2.91%

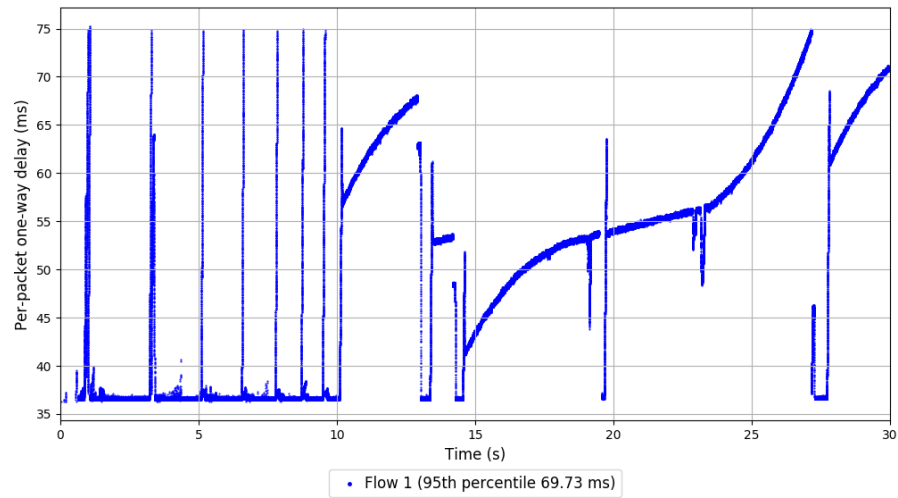
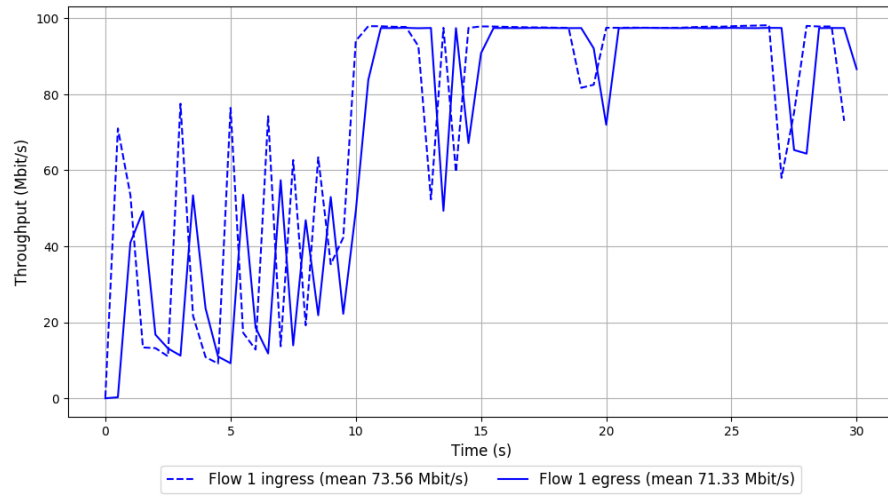
-- Flow 1:

Average throughput: 71.33 Mbit/s

95th percentile per-packet one-way delay: 69.729 ms

Loss rate: 2.91%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-29 13:38:19

End at: 2018-06-29 13:38:49

Local clock offset: -4.788 ms

Remote clock offset: 2.333 ms

# Below is generated by plot.py at 2018-06-29 17:04:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 72.357 ms

Loss rate: 2.79%

-- Flow 1:

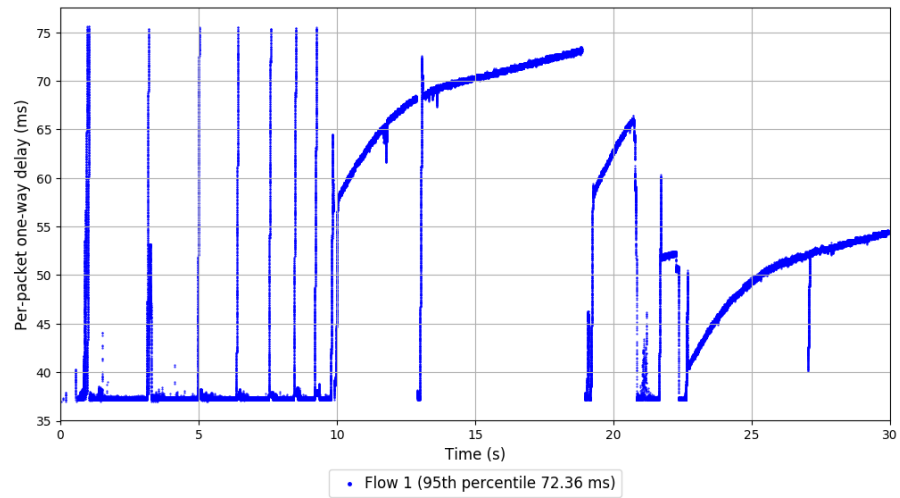
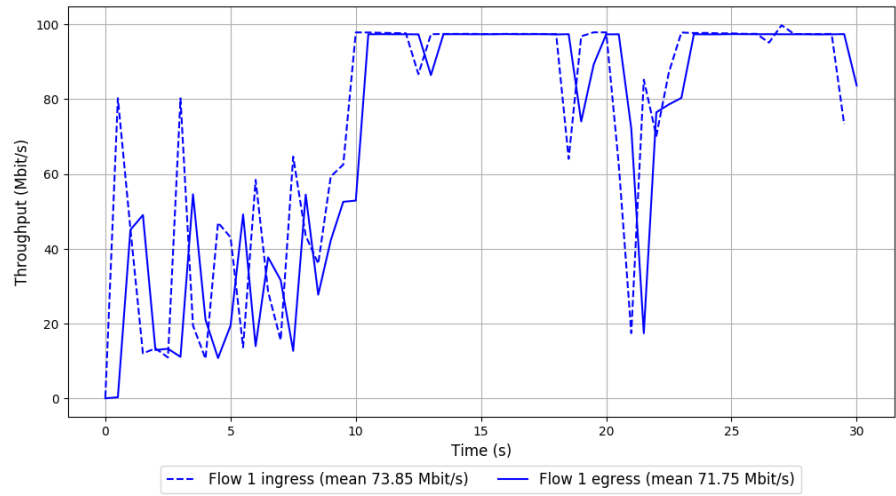
Average throughput: 71.75 Mbit/s

95th percentile per-packet one-way delay: 72.357 ms

Loss rate: 2.79%



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



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-29 14:02:01

End at: 2018-06-29 14:02:31

Local clock offset: -0.561 ms

Remote clock offset: 3.033 ms

# Below is generated by plot.py at 2018-06-29 17:04:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.18 Mbit/s

95th percentile per-packet one-way delay: 73.843 ms

Loss rate: 1.93%

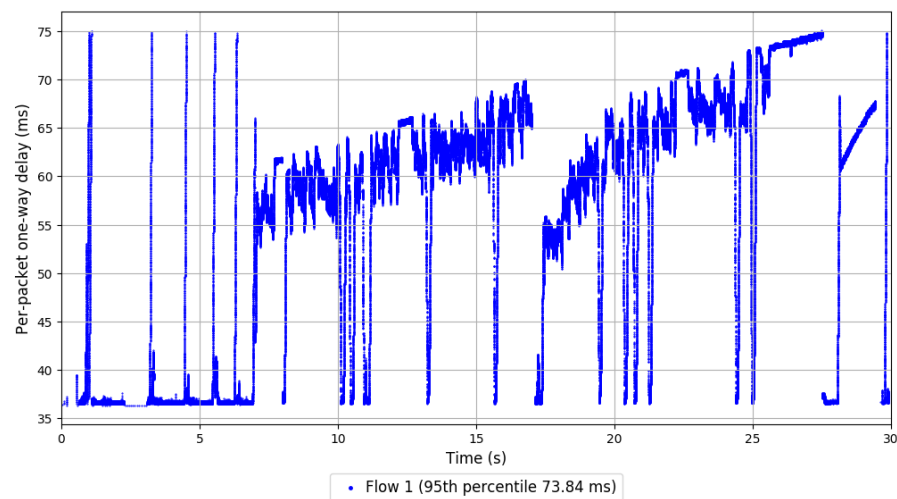
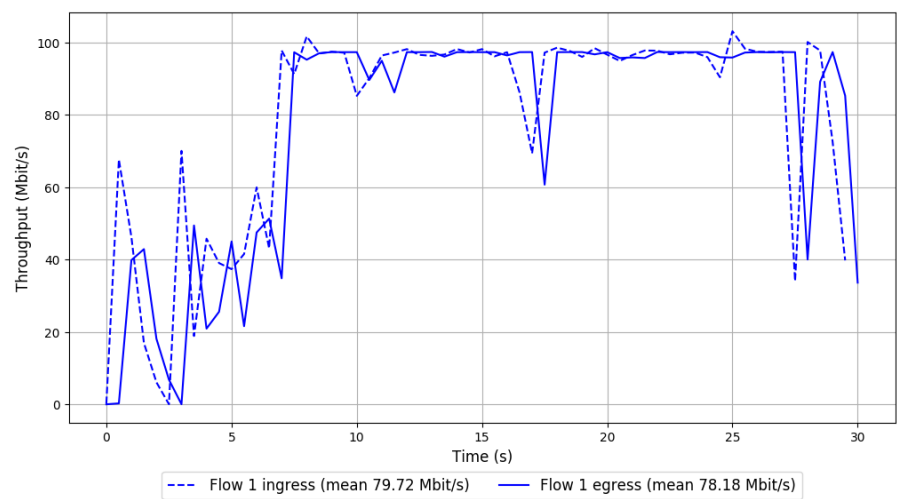
-- Flow 1:

Average throughput: 78.18 Mbit/s

95th percentile per-packet one-way delay: 73.843 ms

Loss rate: 1.93%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-29 14:26:43

End at: 2018-06-29 14:27:13

Local clock offset: -2.104 ms

Remote clock offset: 0.936 ms

# Below is generated by plot.py at 2018-06-29 17:04:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 70.839 ms

Loss rate: 2.99%

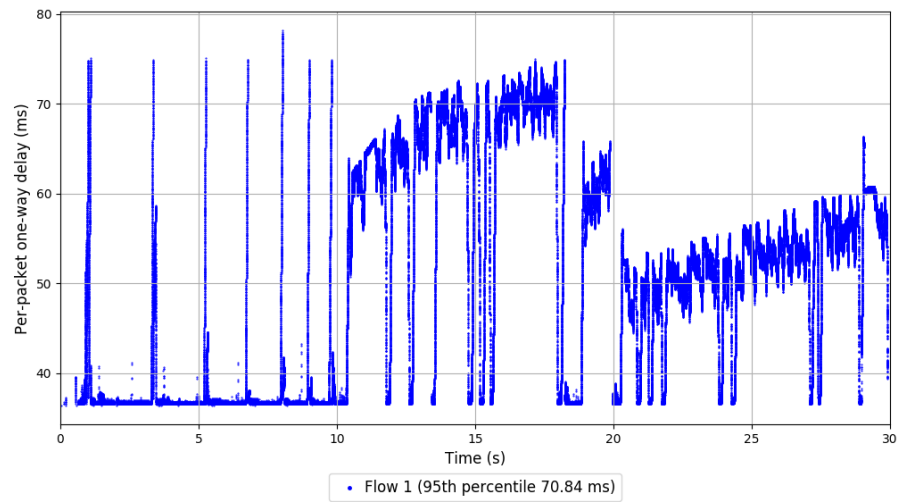
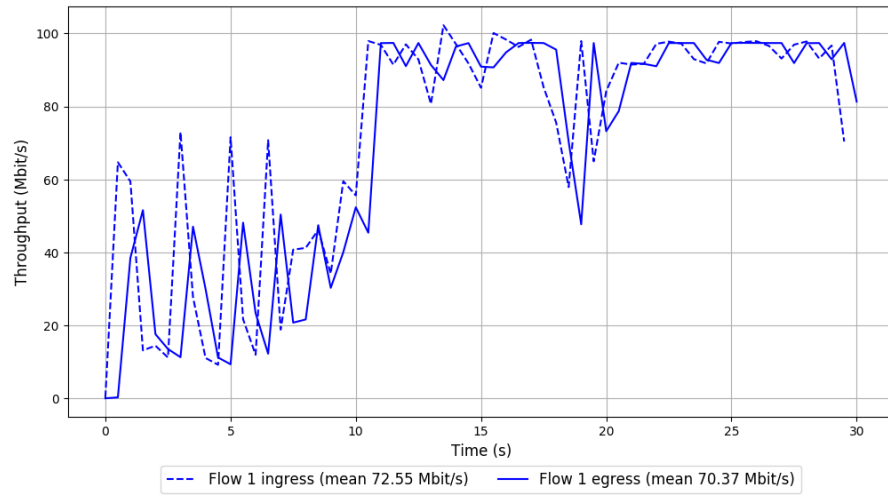
-- Flow 1:

Average throughput: 70.37 Mbit/s

95th percentile per-packet one-way delay: 70.839 ms

Loss rate: 2.99%

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

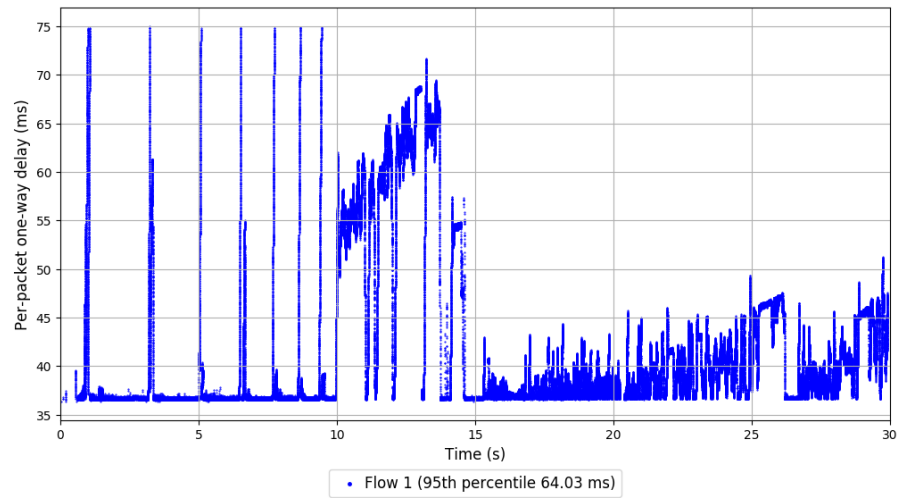
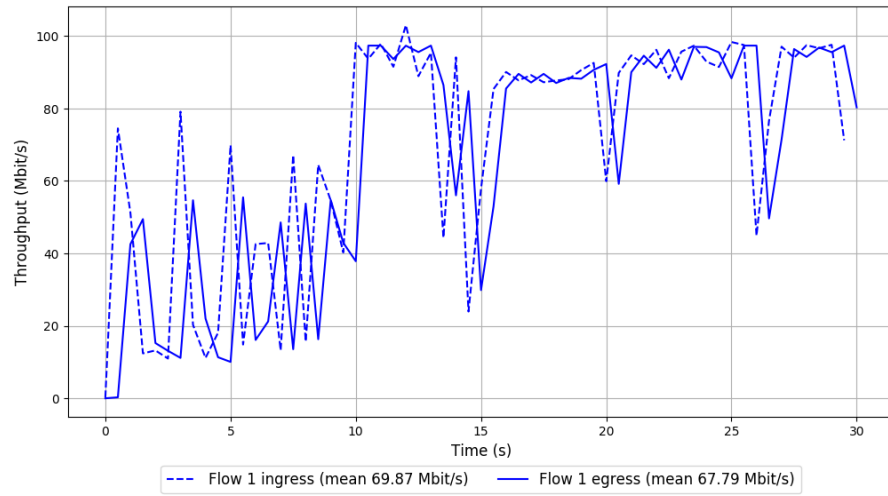


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-29 14:51:05  
End at: 2018-06-29 14:51:36  
Local clock offset: -2.755 ms  
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2018-06-29 17:04:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 67.79 Mbit/s  
95th percentile per-packet one-way delay: 64.035 ms  
Loss rate: 2.95%  
-- Flow 1:  
Average throughput: 67.79 Mbit/s  
95th percentile per-packet one-way delay: 64.035 ms  
Loss rate: 2.95%

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



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-29 15:15:12

End at: 2018-06-29 15:15:42

Local clock offset: -2.343 ms

Remote clock offset: 3.707 ms

# Below is generated by plot.py at 2018-06-29 17:04:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.81 Mbit/s

95th percentile per-packet one-way delay: 72.493 ms

Loss rate: 2.81%

-- Flow 1:

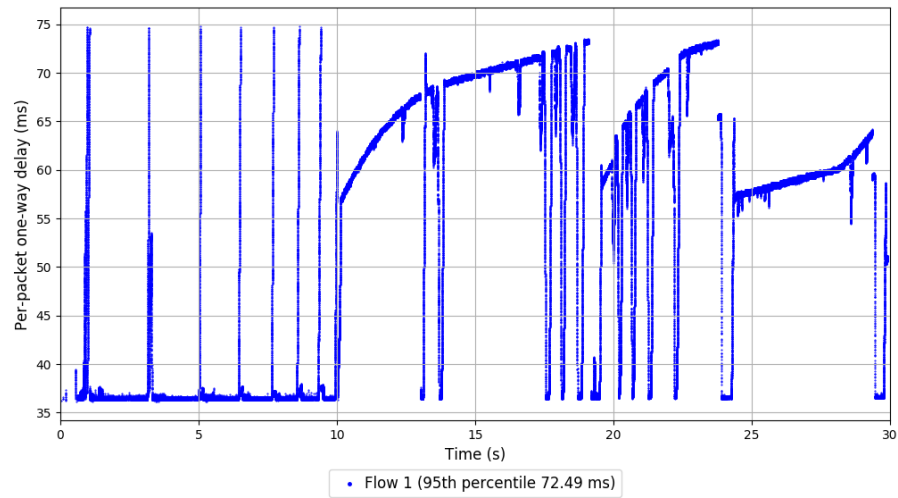
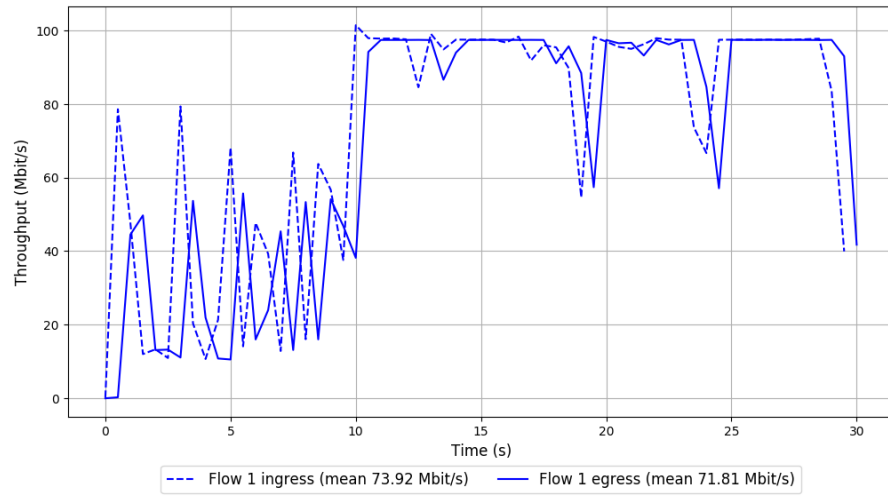
Average throughput: 71.81 Mbit/s

95th percentile per-packet one-way delay: 72.493 ms

Loss rate: 2.81%



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



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-29 15:39:19

End at: 2018-06-29 15:39:49

Local clock offset: 1.997 ms

Remote clock offset: 4.206 ms

# Below is generated by plot.py at 2018-06-29 17:04:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 56.038 ms

Loss rate: 2.68%

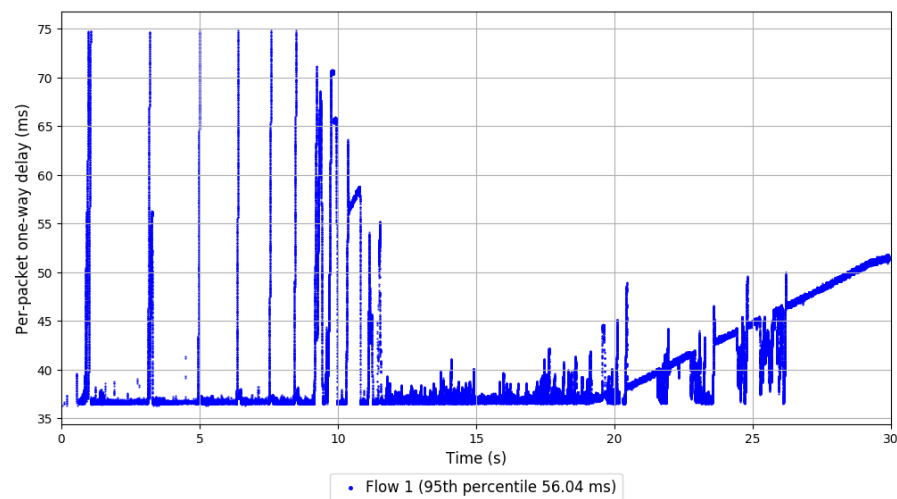
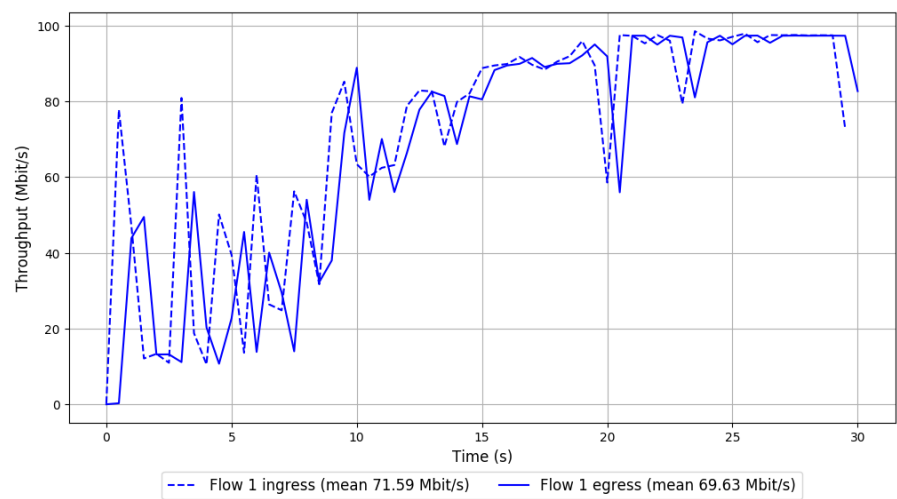
-- Flow 1:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 56.038 ms

Loss rate: 2.68%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-29 16:04:12

End at: 2018-06-29 16:04:42

Local clock offset: -1.517 ms

Remote clock offset: 4.3 ms

# Below is generated by plot.py at 2018-06-29 17:04:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.95 Mbit/s

95th percentile per-packet one-way delay: 60.644 ms

Loss rate: 2.68%

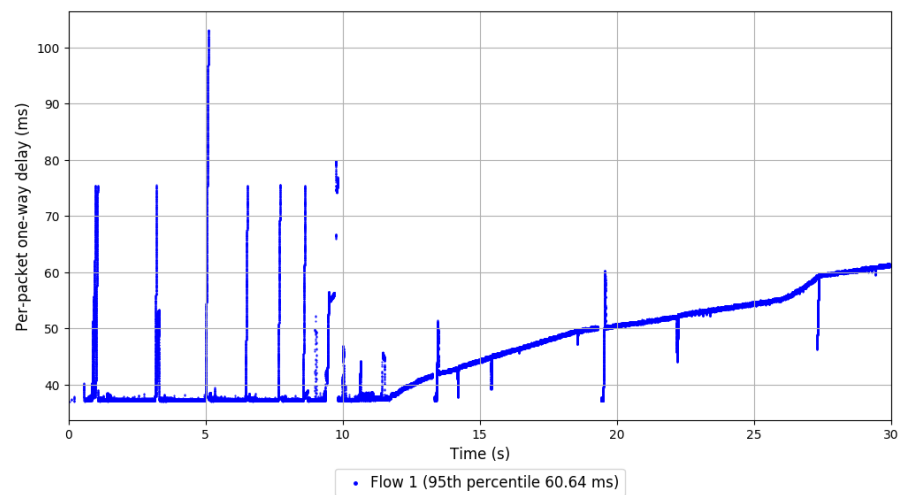
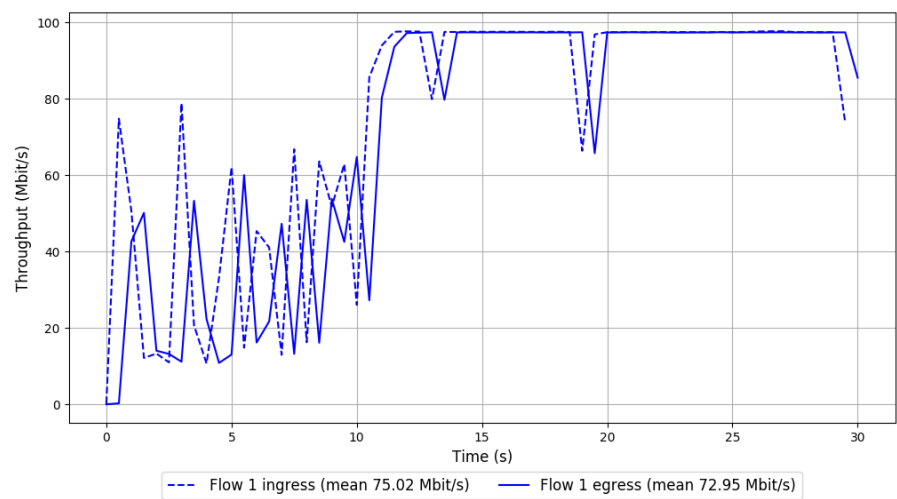
-- Flow 1:

Average throughput: 72.95 Mbit/s

95th percentile per-packet one-way delay: 60.644 ms

Loss rate: 2.68%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-29 16:28:00

End at: 2018-06-29 16:28:31

Local clock offset: -1.621 ms

Remote clock offset: 4.37 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.72 Mbit/s

95th percentile per-packet one-way delay: 71.058 ms

Loss rate: 2.67%

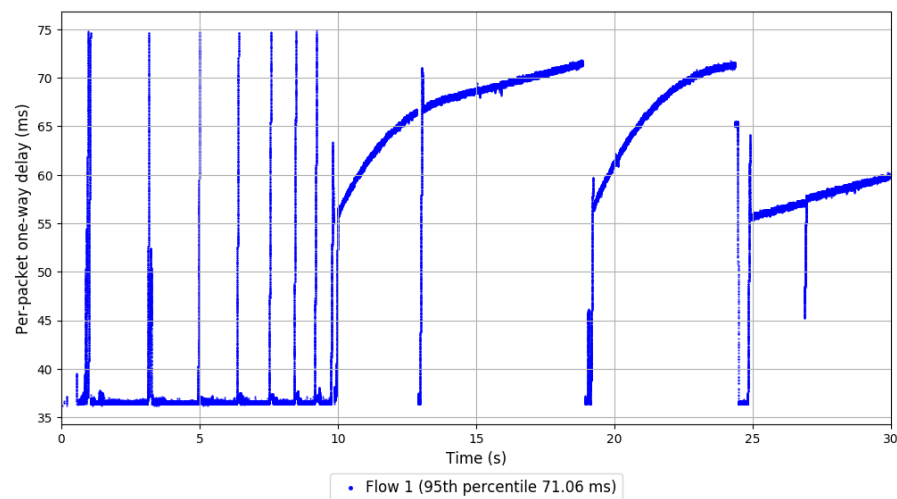
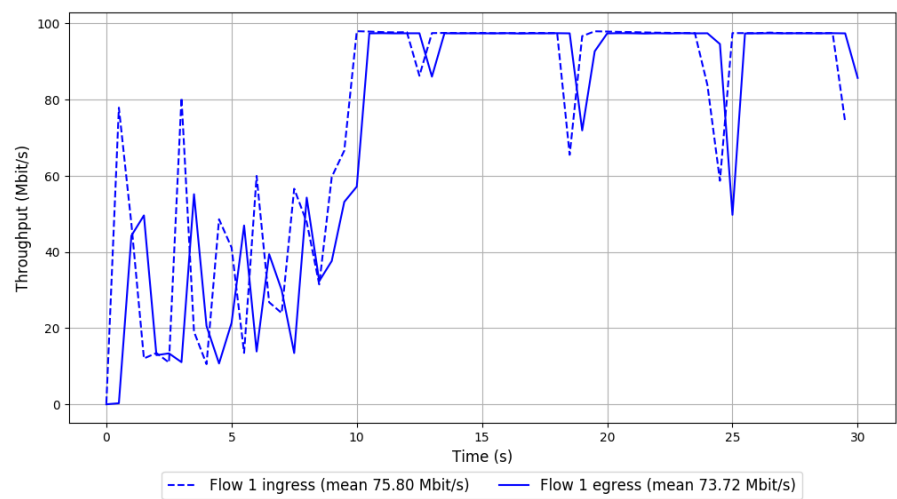
-- Flow 1:

Average throughput: 73.72 Mbit/s

95th percentile per-packet one-way delay: 71.058 ms

Loss rate: 2.67%

Run 10: Report of QUIC Cubic — Data Link



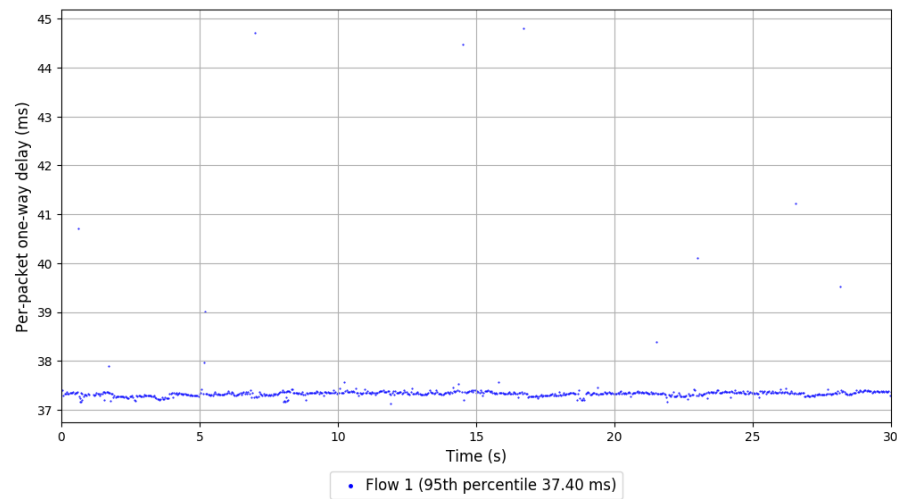
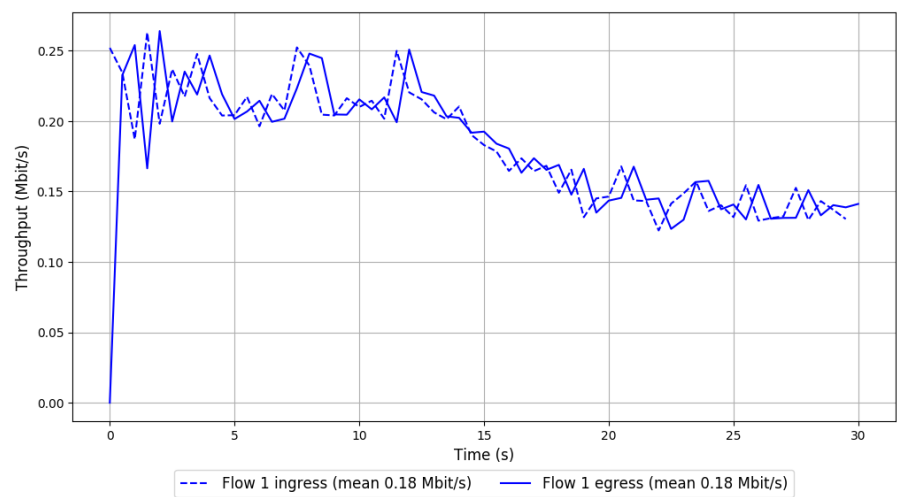
```
Run 1: Statistics of SCReAM

Start at: 2018-06-29 13:11:10
End at: 2018-06-29 13:11:40
Local clock offset: -3.558 ms
Remote clock offset: 6.32 ms

# Below is generated by plot.py at 2018-06-29 17:04:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 37.398 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 37.398 ms
Loss rate: 0.16%
```



Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-29 13:34:25

End at: 2018-06-29 13:34:55

Local clock offset: -4.314 ms

Remote clock offset: 2.645 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.267 ms

Loss rate: 0.13%

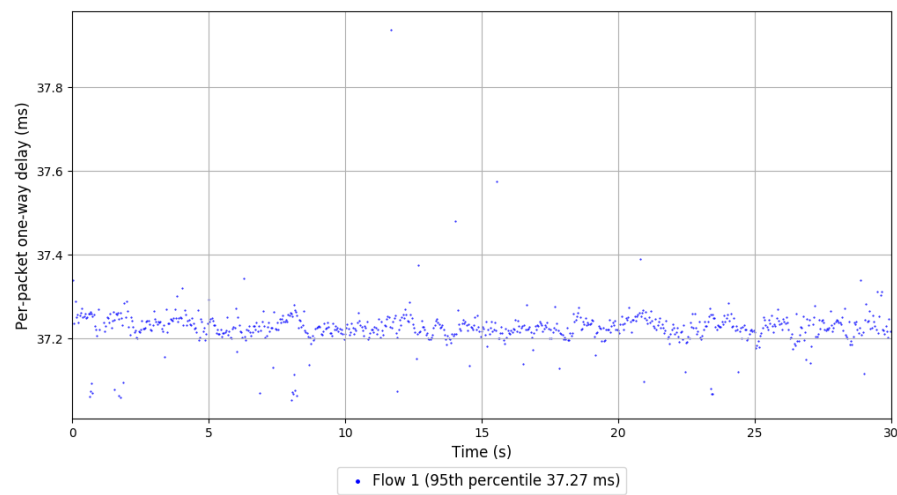
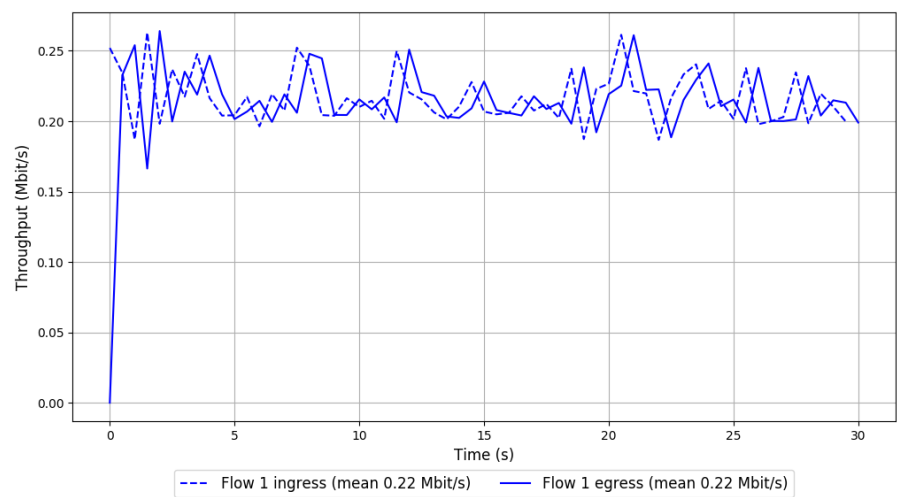
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.267 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-29 13:58:03

End at: 2018-06-29 13:58:33

Local clock offset: -1.087 ms

Remote clock offset: 3.219 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.687 ms

Loss rate: 0.00%

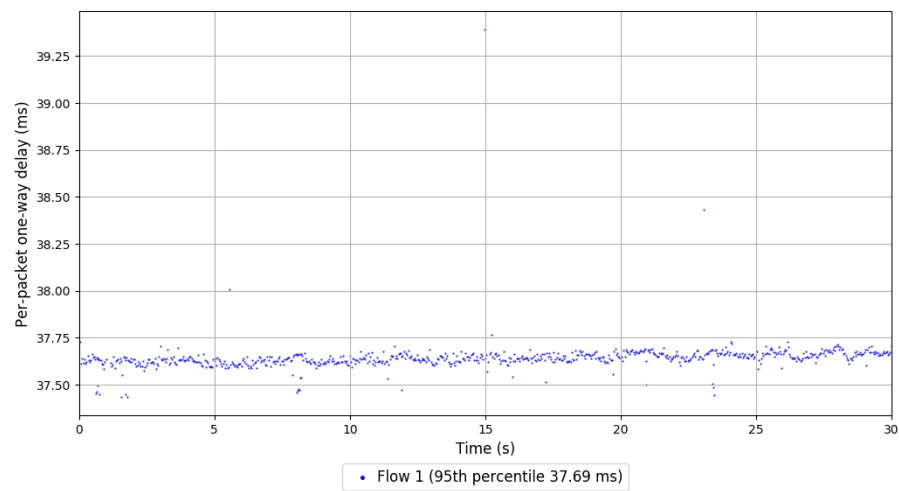
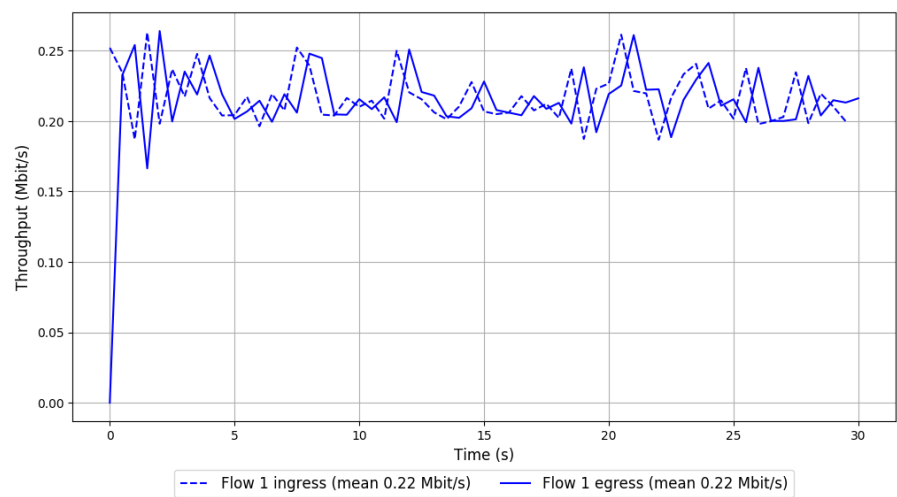
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.687 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-29 14:22:51

End at: 2018-06-29 14:23:21

Local clock offset: -1.599 ms

Remote clock offset: 1.855 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.612 ms

Loss rate: 0.00%

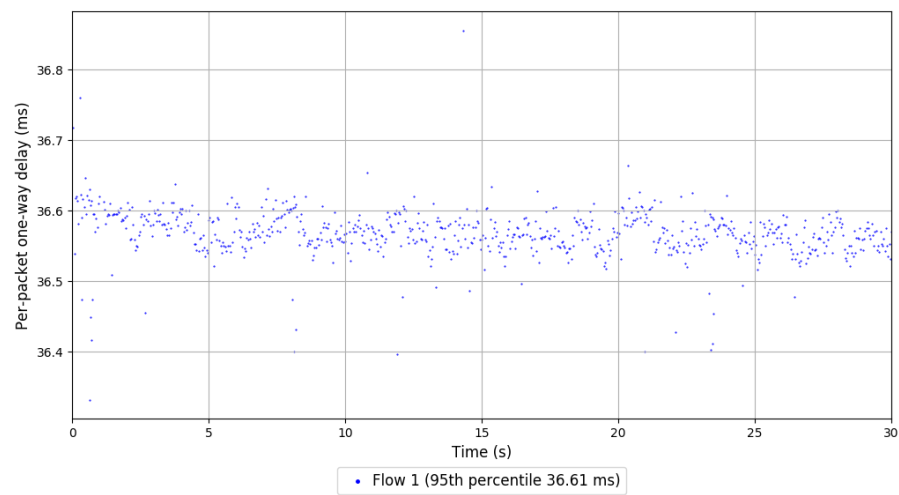
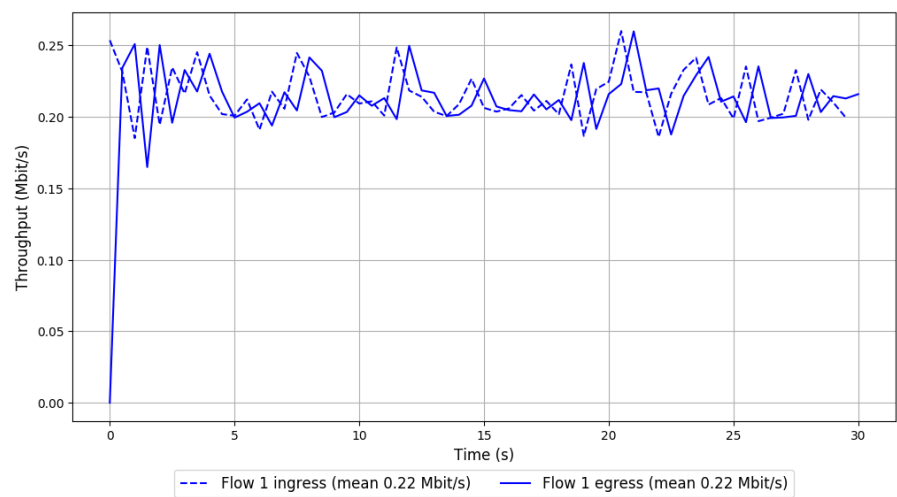
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.612 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-29 14:47:06

End at: 2018-06-29 14:47:36

Local clock offset: -3.176 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.804 ms

Loss rate: 0.00%

-- Flow 1:

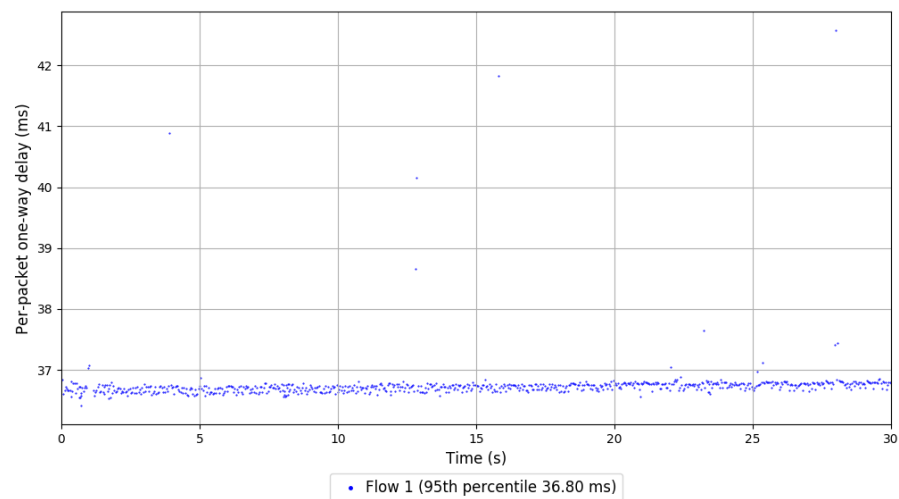
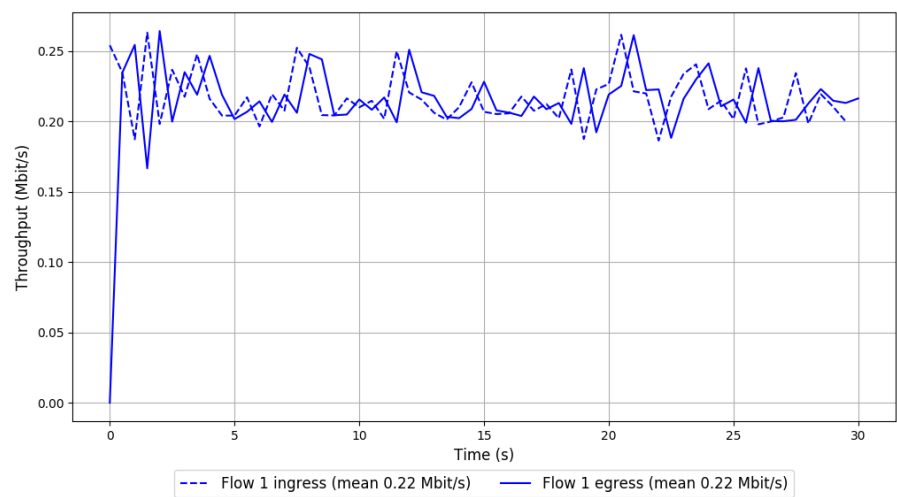
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.804 ms

Loss rate: 0.00%



Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-29 15:11:13

End at: 2018-06-29 15:11:43

Local clock offset: -2.411 ms

Remote clock offset: 3.686 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.798 ms

Loss rate: 0.00%

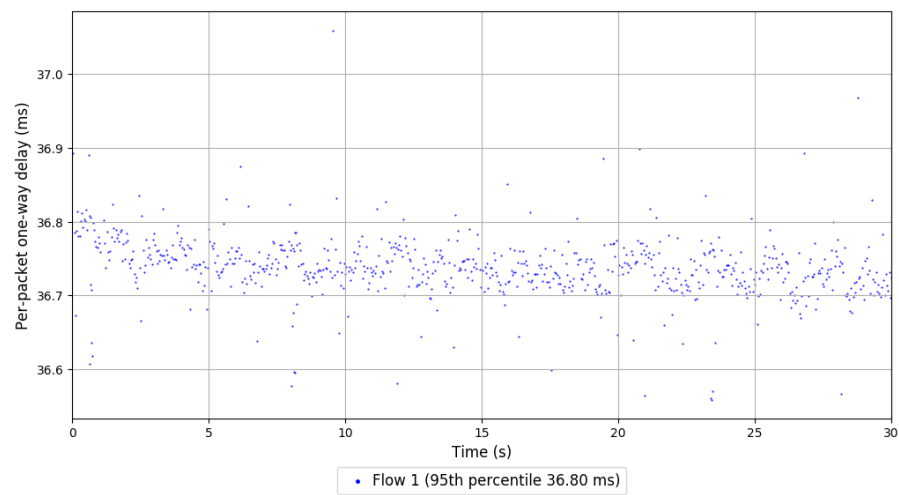
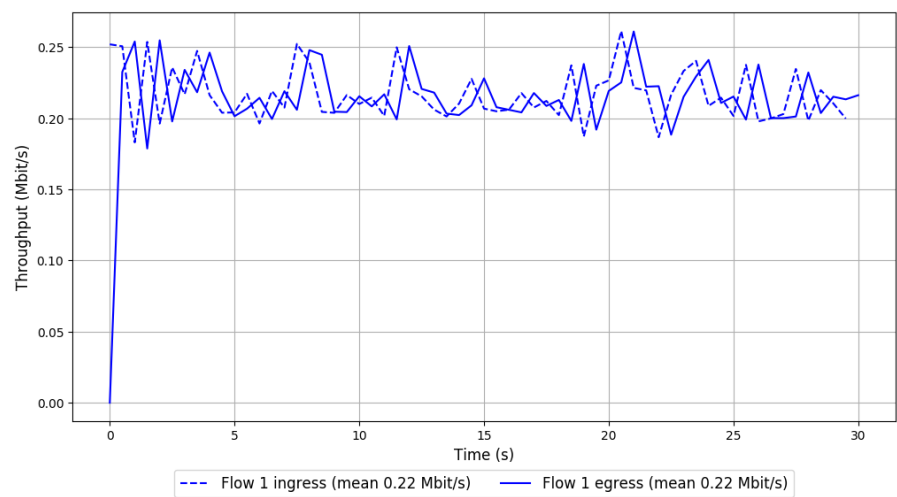
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 36.798 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-29 15:35:22

End at: 2018-06-29 15:35:52

Local clock offset: 1.723 ms

Remote clock offset: 4.167 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.389 ms

Loss rate: 0.00%

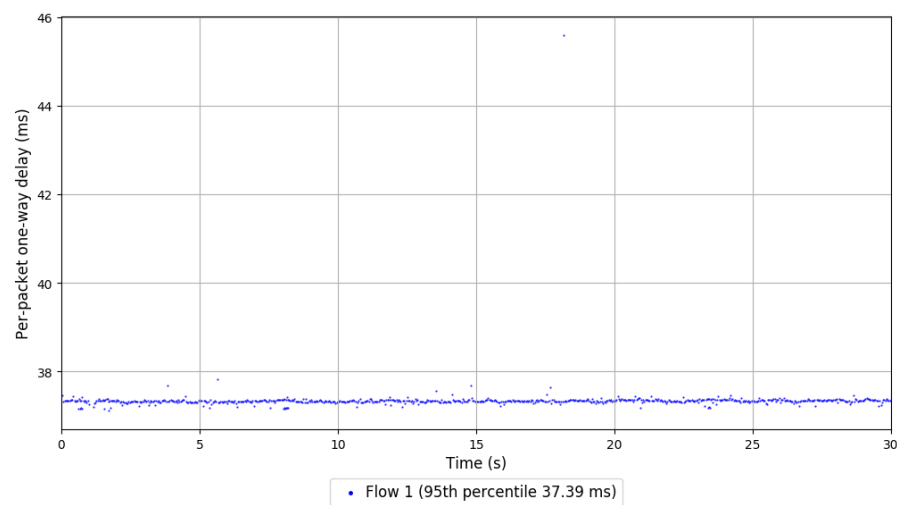
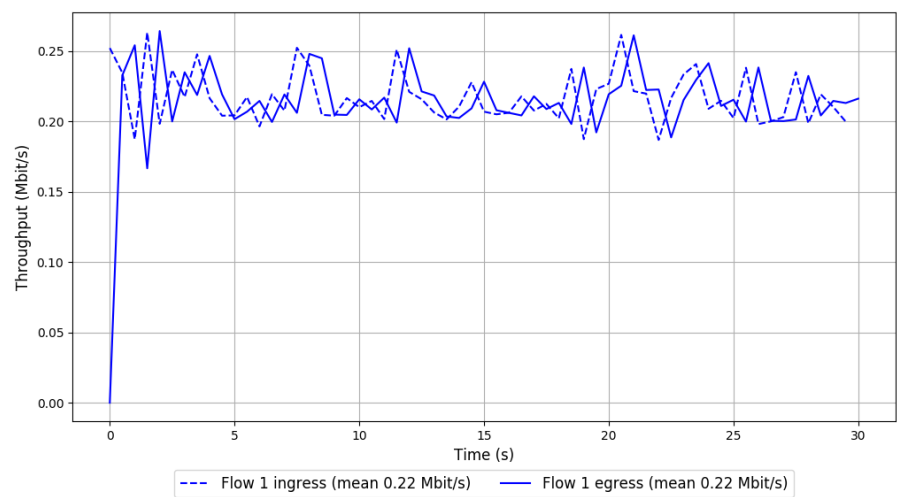
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.389 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-29 16:00:22

End at: 2018-06-29 16:00:52

Local clock offset: -1.15 ms

Remote clock offset: 4.237 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.295 ms

Loss rate: 0.00%

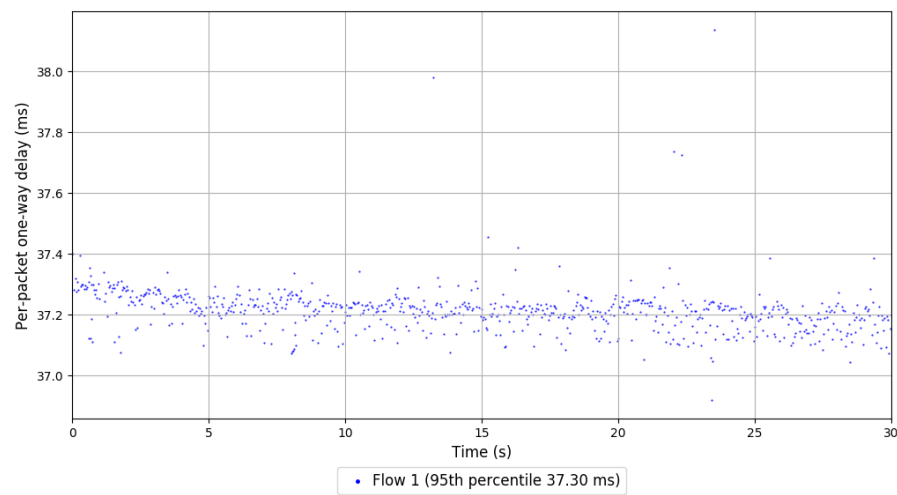
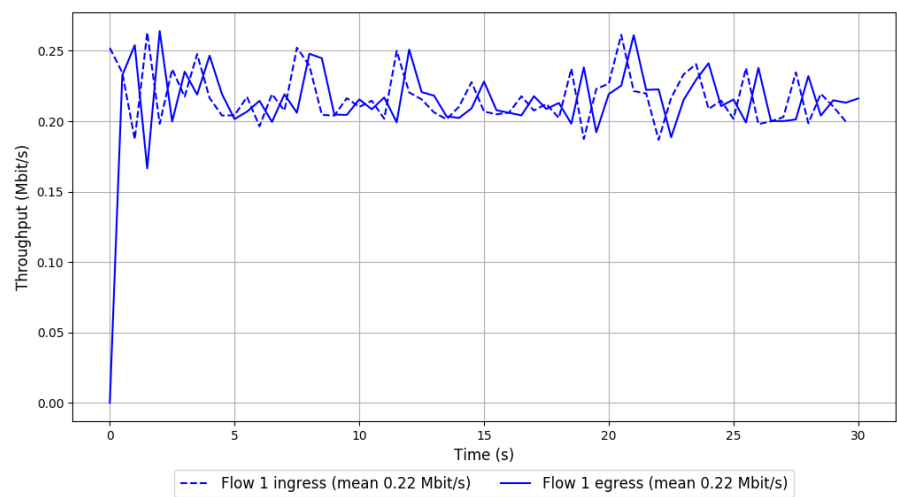
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.295 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-29 16:24:08

End at: 2018-06-29 16:24:38

Local clock offset: -1.74 ms

Remote clock offset: 4.467 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.496 ms

Loss rate: 0.00%

-- Flow 1:

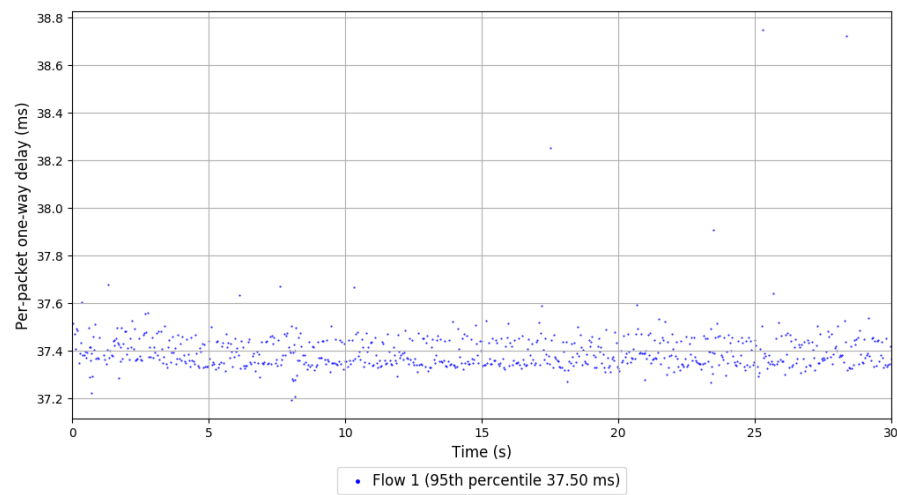
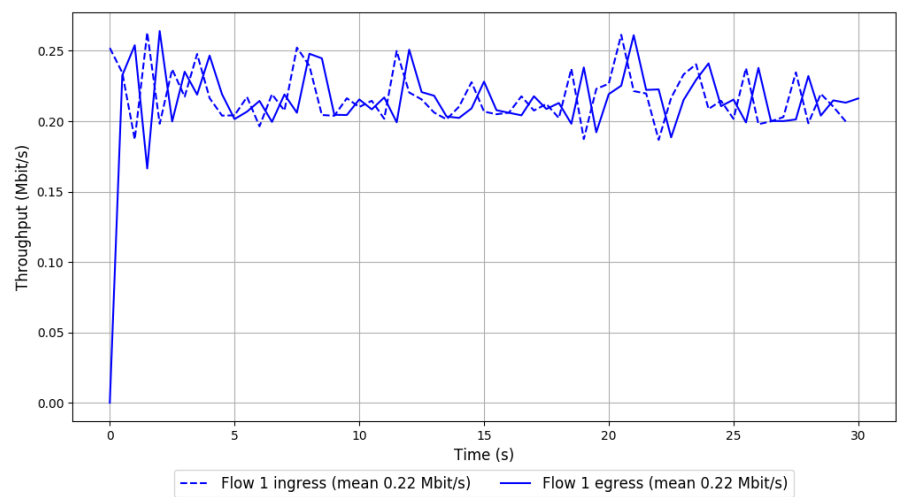
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.496 ms

Loss rate: 0.00%



Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-29 16:47:15

End at: 2018-06-29 16:47:45

Local clock offset: -1.229 ms

Remote clock offset: 7.048 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.579 ms

Loss rate: 0.00%

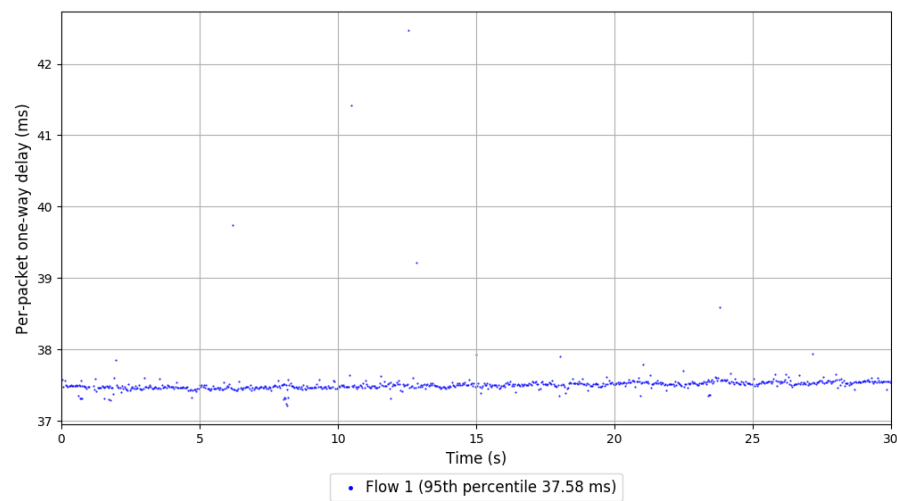
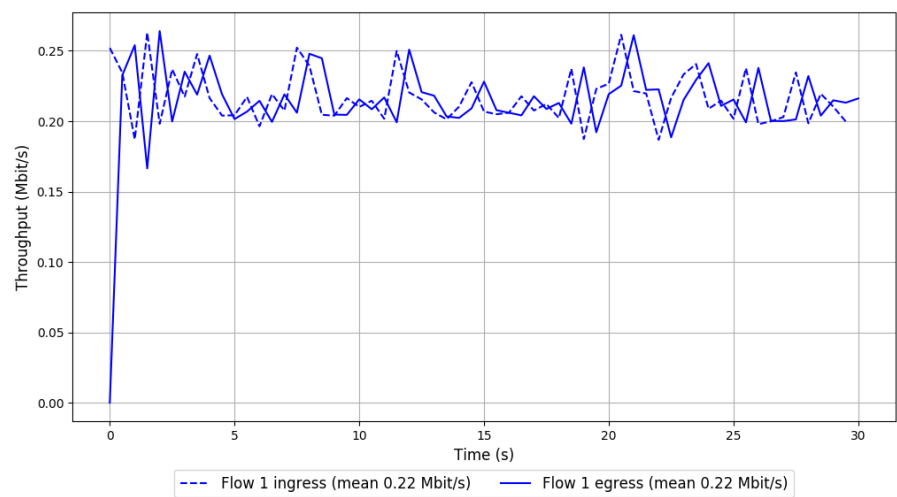
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 37.579 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-29 13:08:22

End at: 2018-06-29 13:08:52

Local clock offset: -3.495 ms

Remote clock offset: 6.839 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 43.935 ms

Loss rate: 0.00%

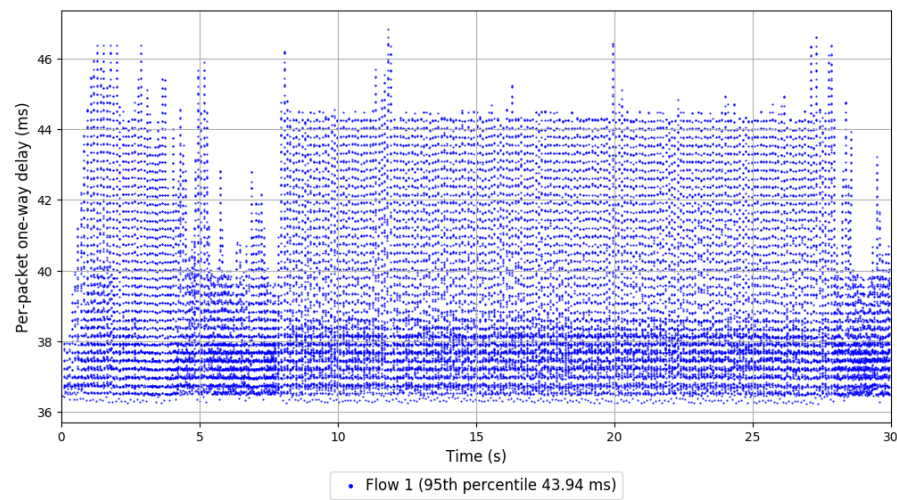
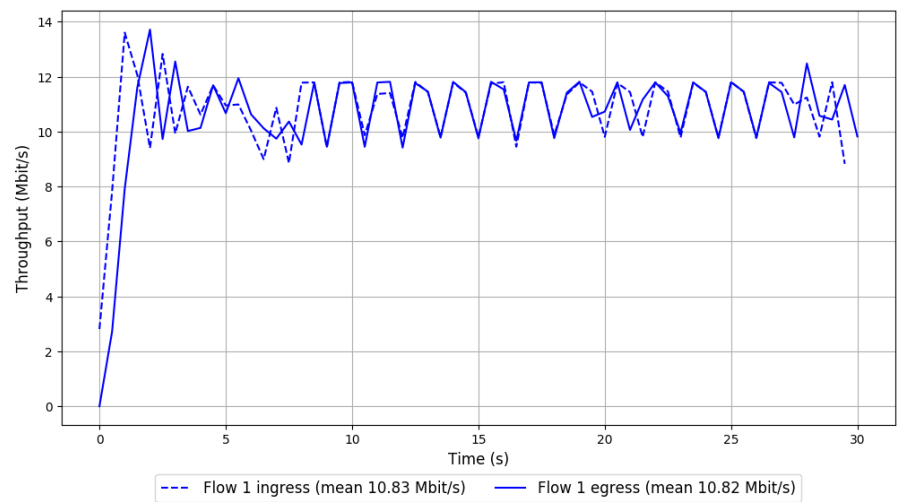
-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 43.935 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

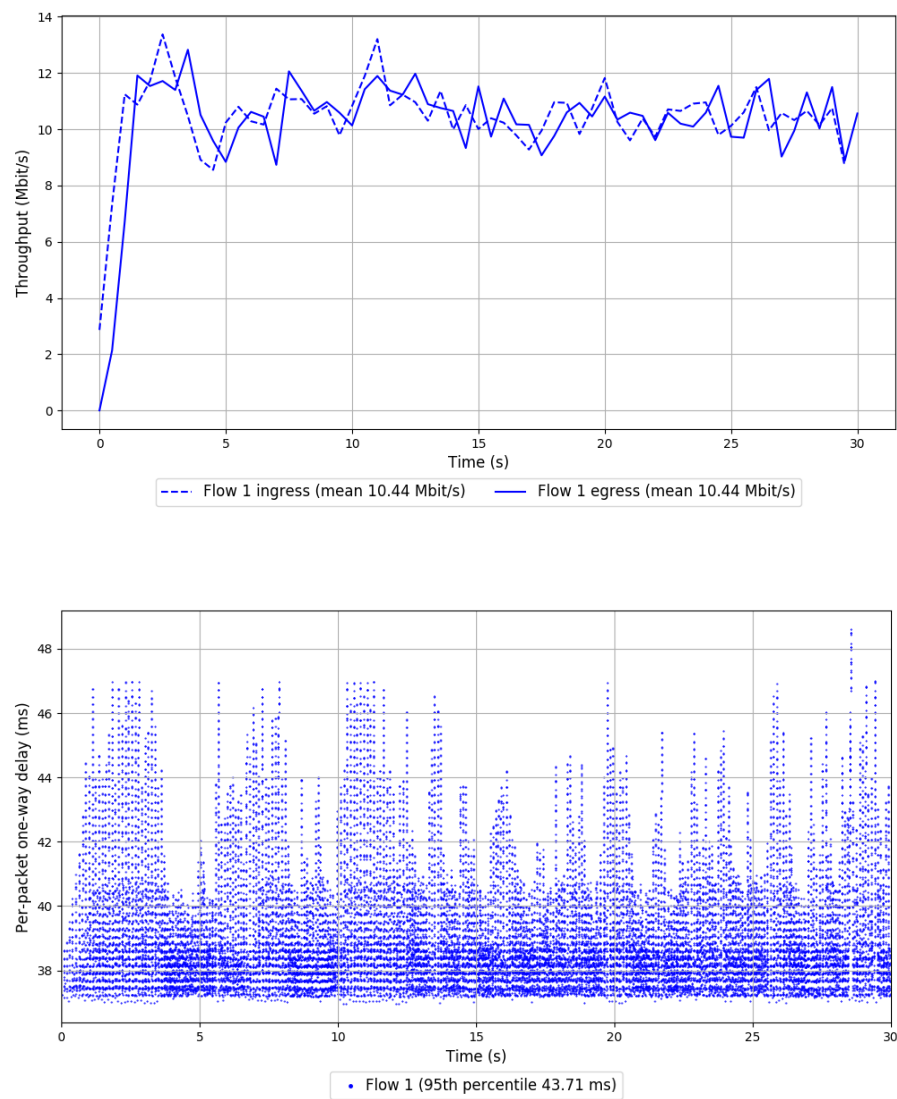


Run 2: Statistics of Sprout

Start at: 2018-06-29 13:31:40  
End at: 2018-06-29 13:32:10  
Local clock offset: -4.147 ms  
Remote clock offset: 2.898 ms

# Below is generated by plot.py at 2018-06-29 17:04:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.44 Mbit/s  
95th percentile per-packet one-way delay: 43.711 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 10.44 Mbit/s  
95th percentile per-packet one-way delay: 43.711 ms  
Loss rate: 0.04%

Run 2: Report of Sprout — Data Link



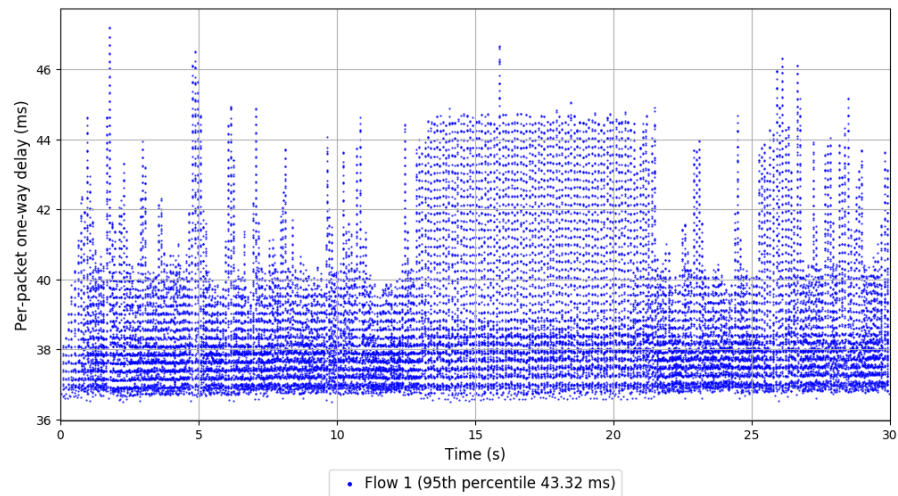
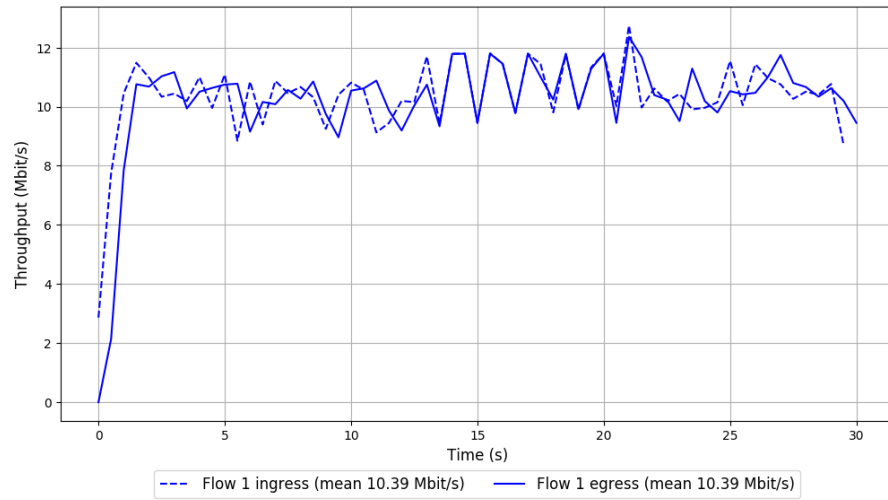
Run 3: Statistics of Sprout

Start at: 2018-06-29 13:54:59  
End at: 2018-06-29 13:55:29  
Local clock offset: -1.659 ms  
Remote clock offset: 3.026 ms

# Below is generated by plot.py at 2018-06-29 17:04:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.39 Mbit/s  
95th percentile per-packet one-way delay: 43.316 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.39 Mbit/s  
95th percentile per-packet one-way delay: 43.316 ms  
Loss rate: 0.00%



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



Run 4: Statistics of Sprout

Start at: 2018-06-29 14:20:02

End at: 2018-06-29 14:20:32

Local clock offset: -1.051 ms

Remote clock offset: 2.228 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 43.609 ms

Loss rate: 0.00%

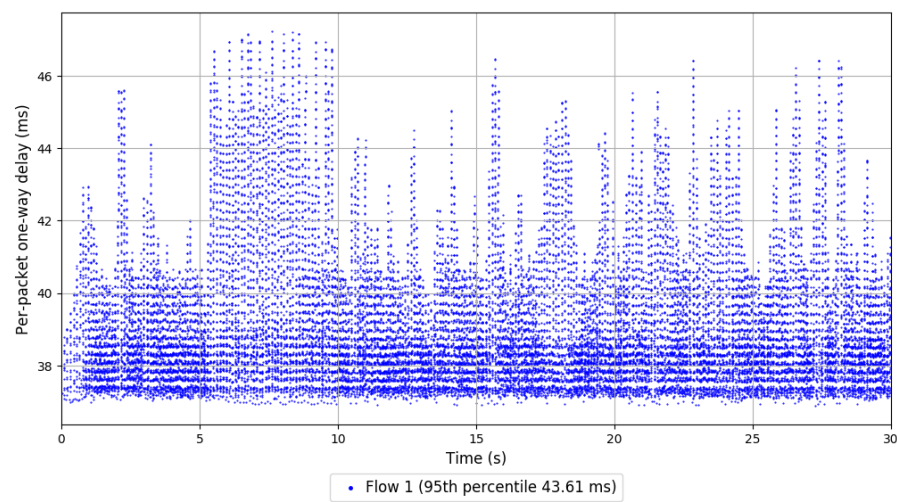
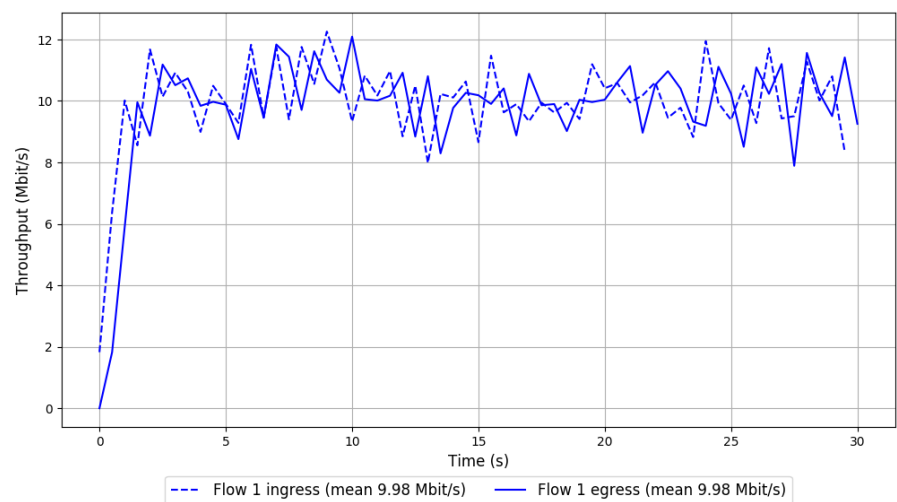
-- Flow 1:

Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 43.609 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-29 14:44:28

End at: 2018-06-29 14:44:58

Local clock offset: -3.311 ms

Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.83 Mbit/s

95th percentile per-packet one-way delay: 41.979 ms

Loss rate: 0.00%

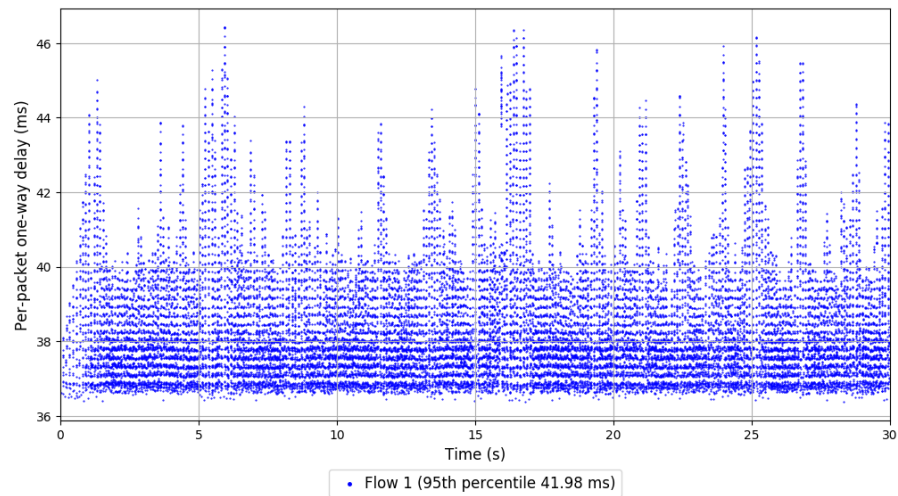
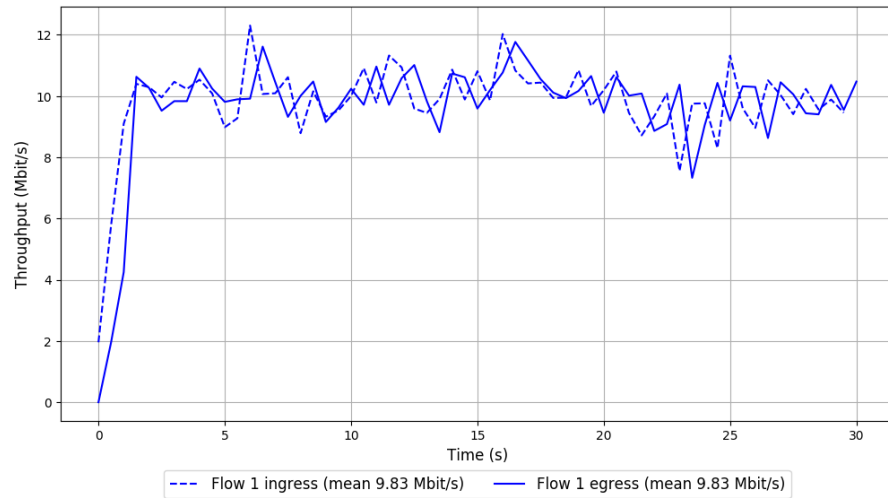
-- Flow 1:

Average throughput: 9.83 Mbit/s

95th percentile per-packet one-way delay: 41.979 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-29 15:08:14

End at: 2018-06-29 15:08:44

Local clock offset: -2.292 ms

Remote clock offset: 3.404 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 42.555 ms

Loss rate: 0.00%

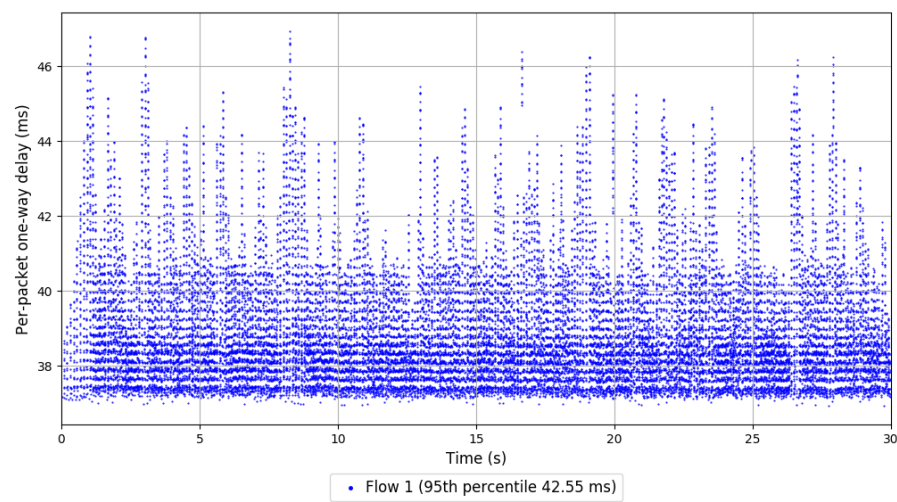
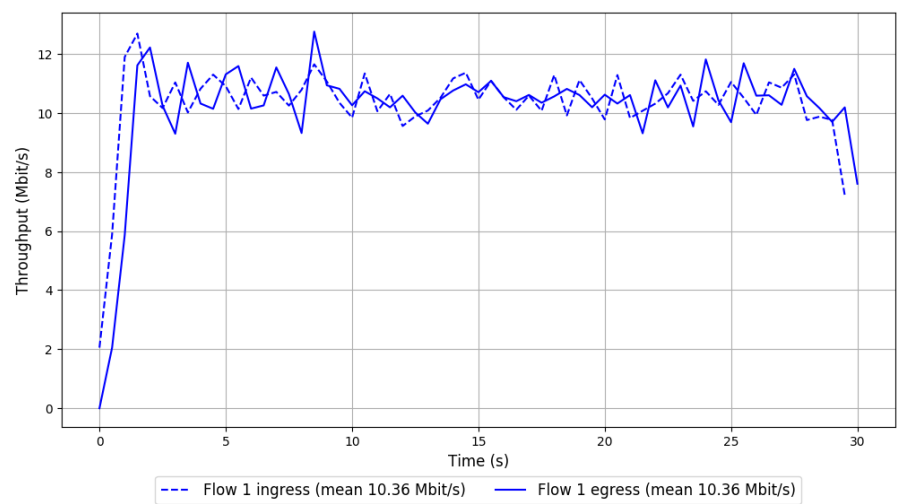
-- Flow 1:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 42.555 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



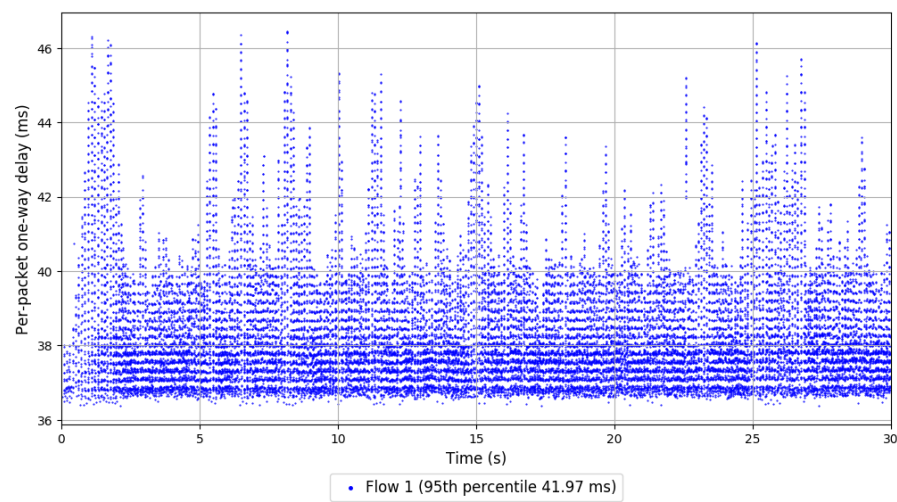
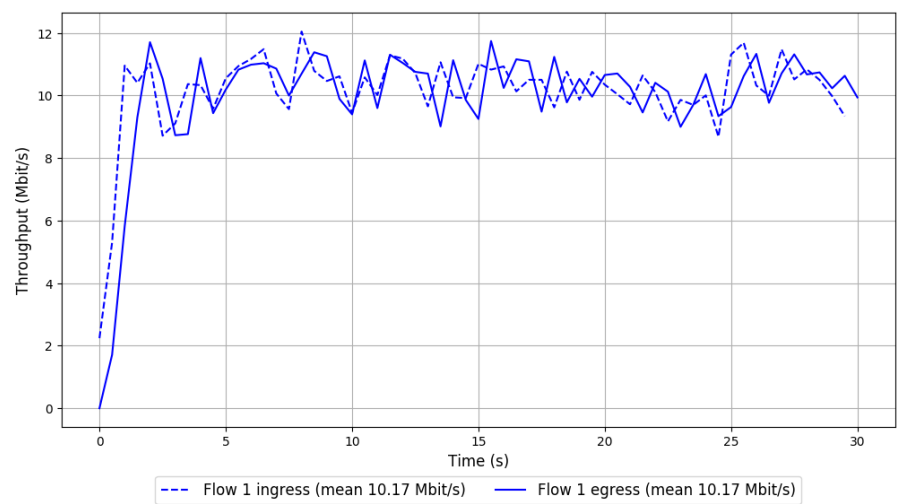
Run 7: Statistics of Sprout

Start at: 2018-06-29 15:32:30  
End at: 2018-06-29 15:33:00  
Local clock offset: 1.455 ms  
Remote clock offset: 4.149 ms

# Below is generated by plot.py at 2018-06-29 17:04:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.17 Mbit/s  
95th percentile per-packet one-way delay: 41.968 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.17 Mbit/s  
95th percentile per-packet one-way delay: 41.968 ms  
Loss rate: 0.00%



Run 7: Report of Sprout — Data Link

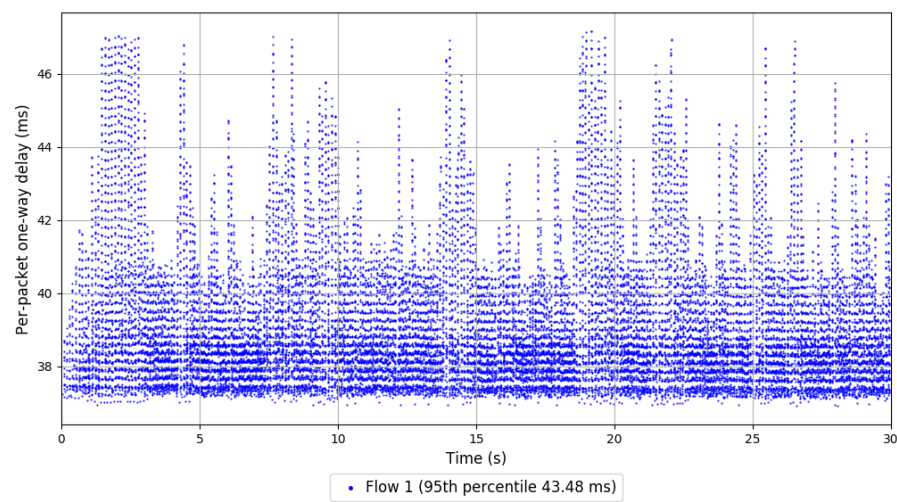
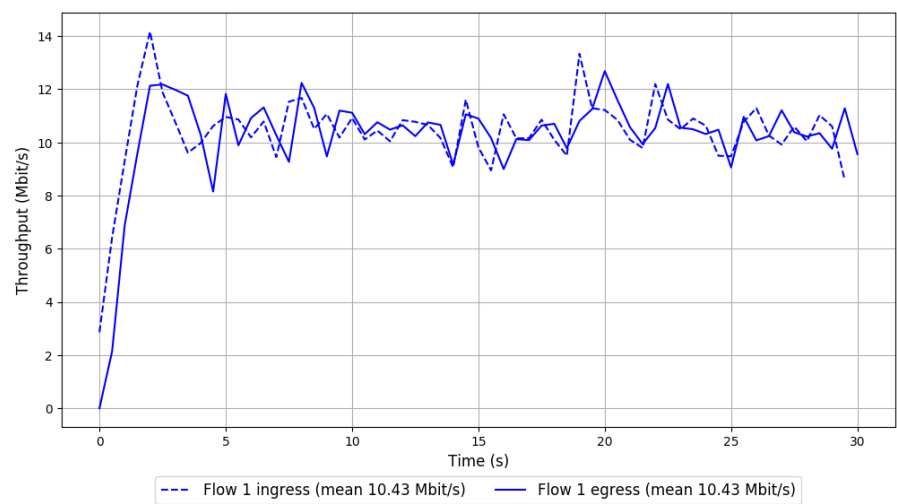


Run 8: Statistics of Sprout

Start at: 2018-06-29 15:57:35  
End at: 2018-06-29 15:58:05  
Local clock offset: -0.838 ms  
Remote clock offset: 4.267 ms

# Below is generated by plot.py at 2018-06-29 17:04:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.43 Mbit/s  
95th percentile per-packet one-way delay: 43.479 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.43 Mbit/s  
95th percentile per-packet one-way delay: 43.479 ms  
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-29 16:21:26

End at: 2018-06-29 16:21:56

Local clock offset: -1.742 ms

Remote clock offset: 4.445 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.61 Mbit/s

95th percentile per-packet one-way delay: 42.575 ms

Loss rate: 0.00%

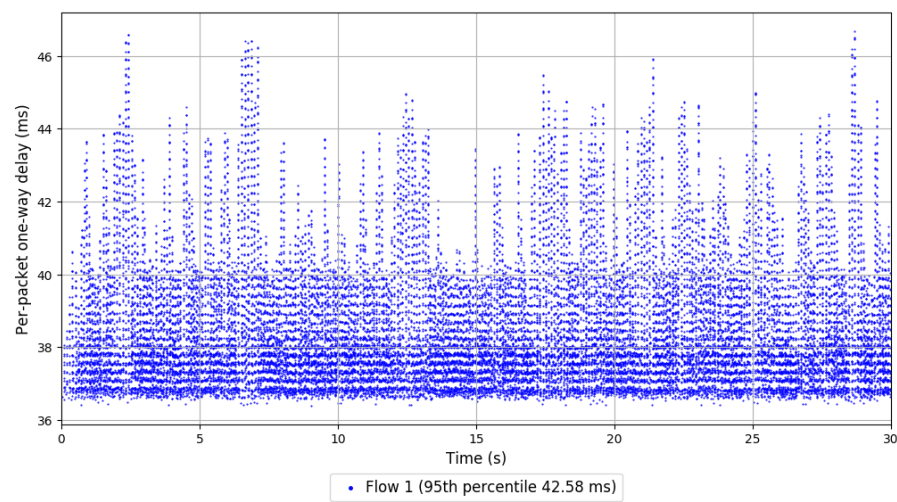
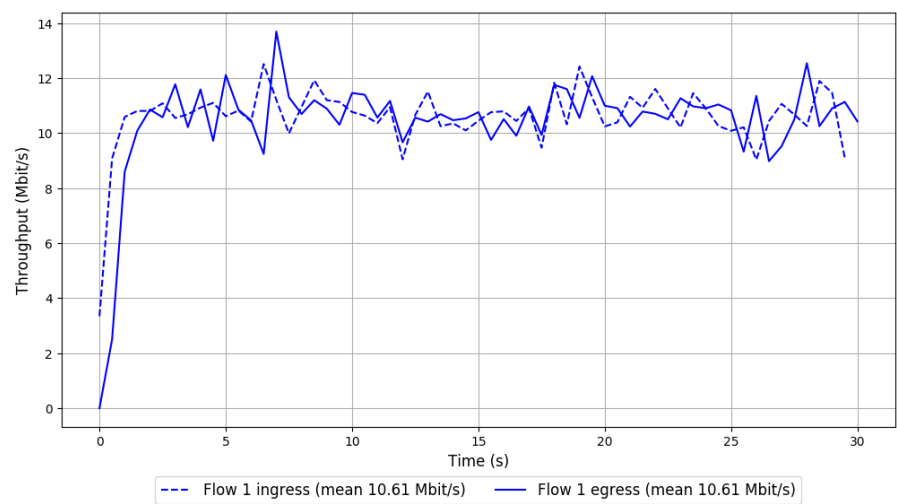
-- Flow 1:

Average throughput: 10.61 Mbit/s

95th percentile per-packet one-way delay: 42.575 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-29 16:44:29

End at: 2018-06-29 16:44:59

Local clock offset: -1.755 ms

Remote clock offset: 6.659 ms

# Below is generated by plot.py at 2018-06-29 17:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 44.053 ms

Loss rate: 0.00%

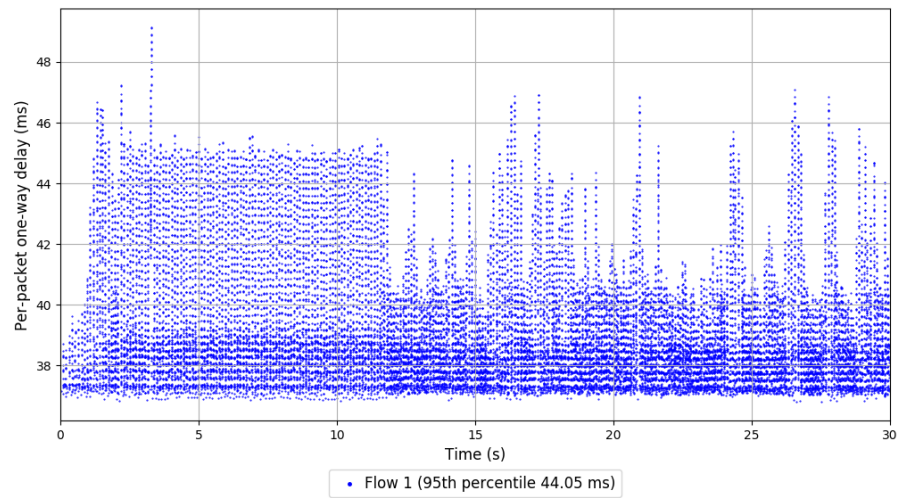
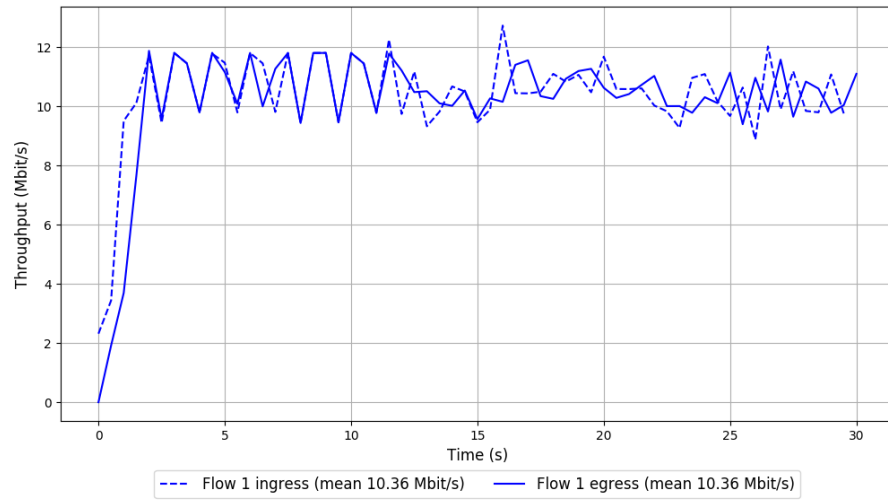
-- Flow 1:

Average throughput: 10.36 Mbit/s

95th percentile per-packet one-way delay: 44.053 ms

Loss rate: 0.00%

# Run 10: Report of Sprout — Data Link



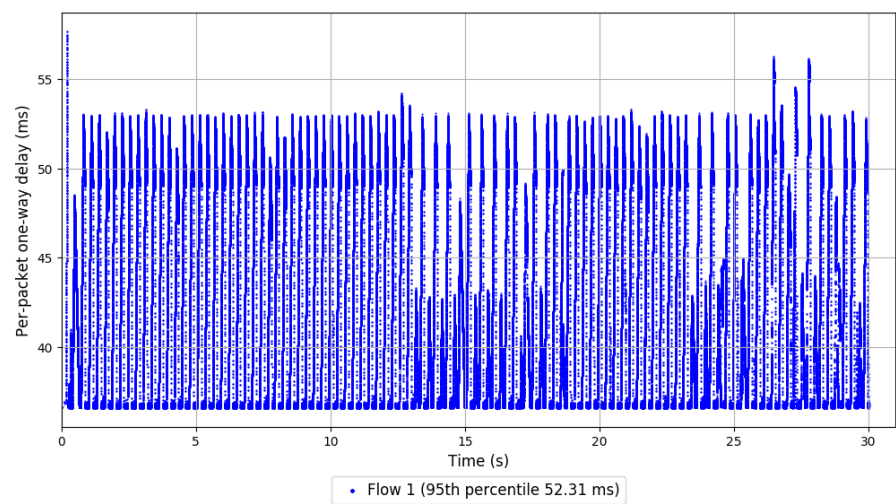
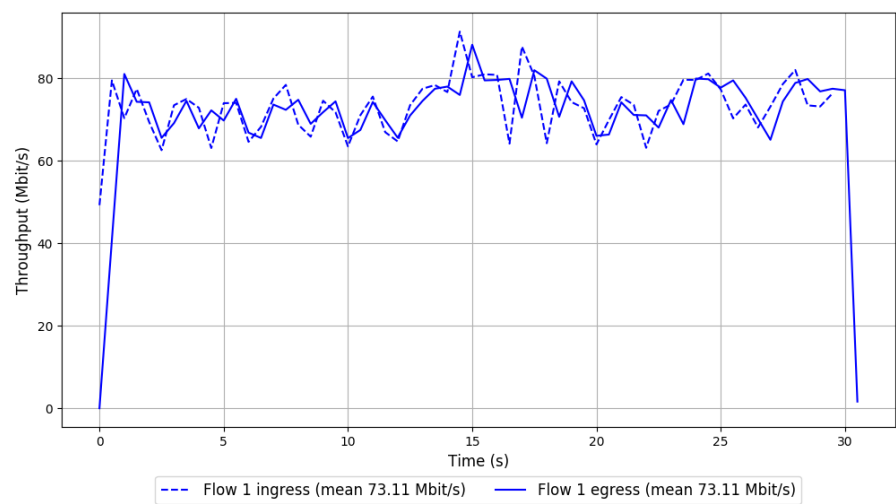
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-29 13:02:39
End at: 2018-06-29 13:03:09
Local clock offset: -3.601 ms
Remote clock offset: 6.615 ms

# Below is generated by plot.py at 2018-06-29 17:06:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.11 Mbit/s
95th percentile per-packet one-way delay: 52.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.11 Mbit/s
95th percentile per-packet one-way delay: 52.311 ms
Loss rate: 0.00%
```



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-29 13:26:15

End at: 2018-06-29 13:26:45

Local clock offset: -3.702 ms

Remote clock offset: 3.413 ms

# Below is generated by plot.py at 2018-06-29 17:06:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 52.120 ms

Loss rate: 0.00%

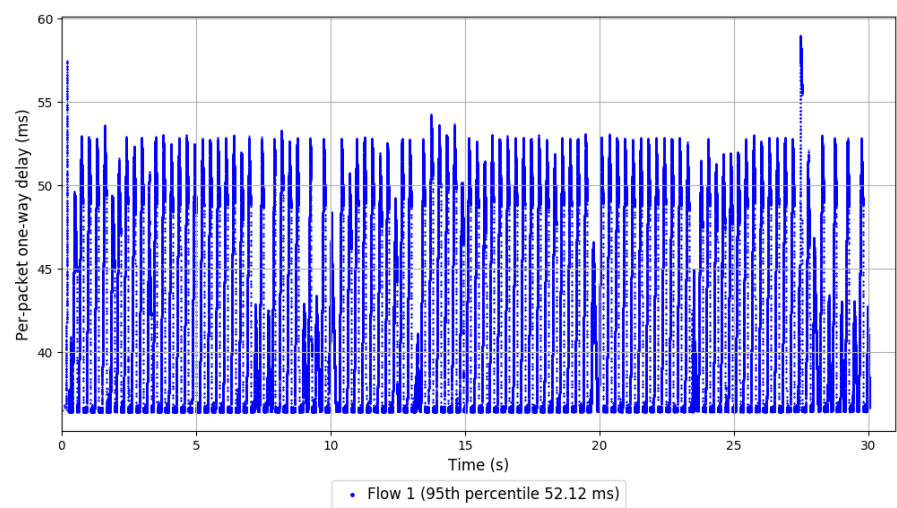
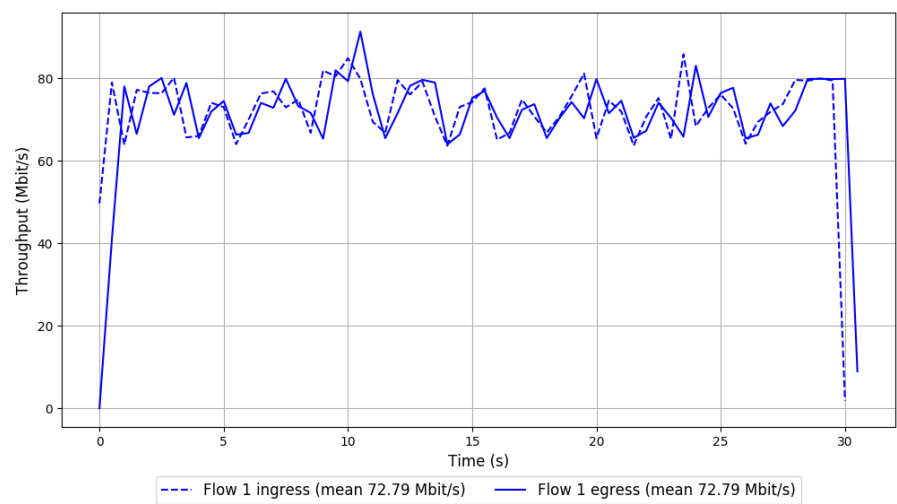
-- Flow 1:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 52.120 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-29 13:49:08

End at: 2018-06-29 13:49:38

Local clock offset: -3.702 ms

Remote clock offset: 2.753 ms

# Below is generated by plot.py at 2018-06-29 17:06:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.55 Mbit/s

95th percentile per-packet one-way delay: 53.328 ms

Loss rate: 0.00%

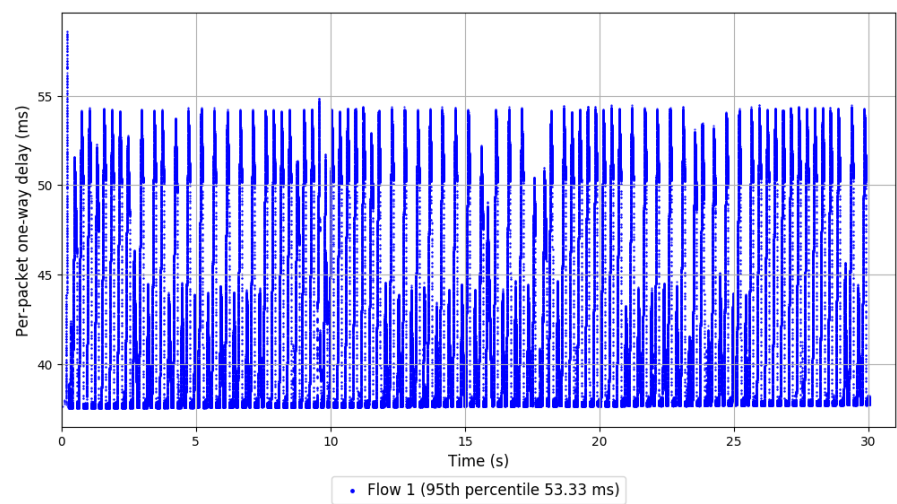
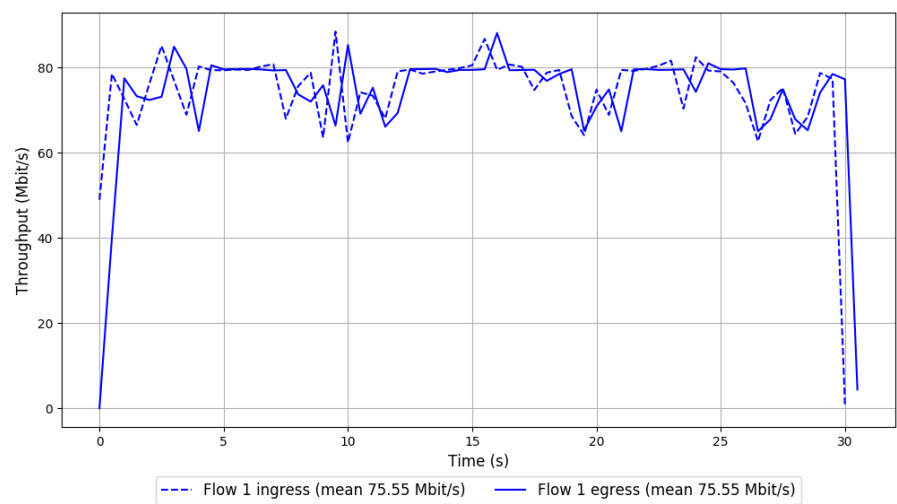
-- Flow 1:

Average throughput: 75.55 Mbit/s

95th percentile per-packet one-way delay: 53.328 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-29 14:13:45

End at: 2018-06-29 14:14:15

Local clock offset: -0.124 ms

Remote clock offset: 2.587 ms

# Below is generated by plot.py at 2018-06-29 17:06:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 48.396 ms

Loss rate: 0.01%

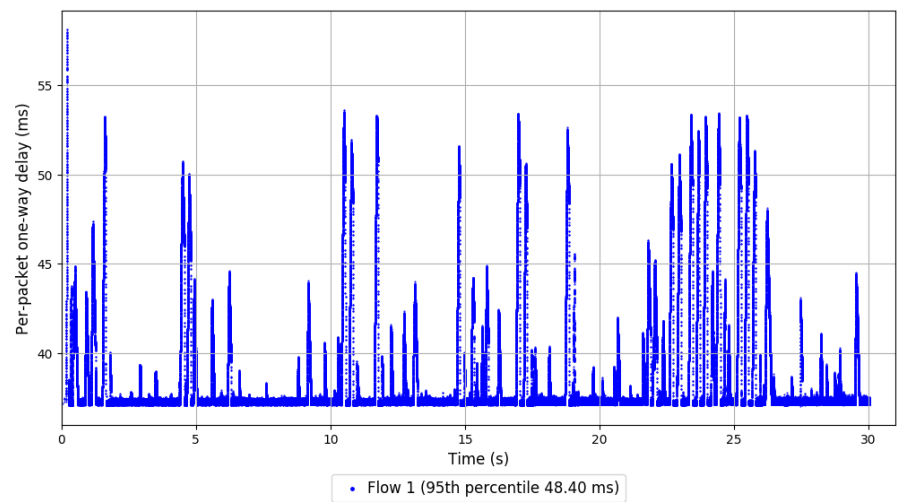
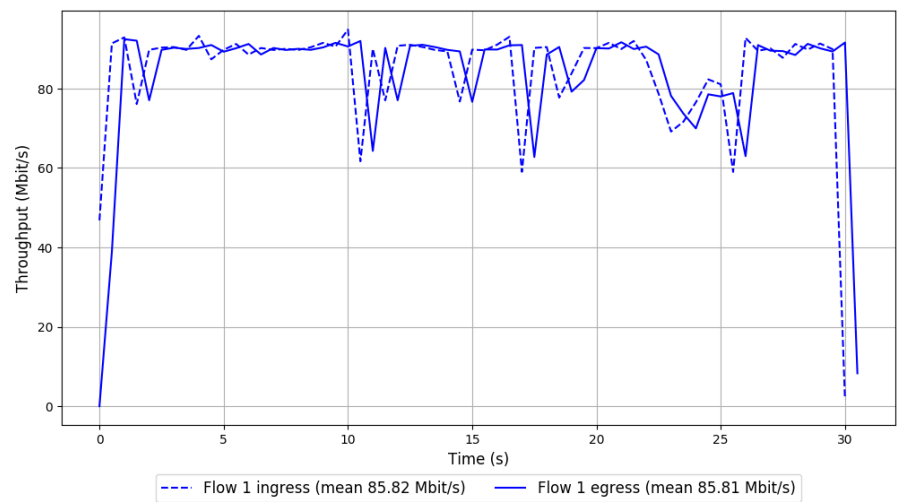
-- Flow 1:

Average throughput: 85.81 Mbit/s

95th percentile per-packet one-way delay: 48.396 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-29 14:38:03

End at: 2018-06-29 14:38:33

Local clock offset: -2.966 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-06-29 17:06:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.14 Mbit/s

95th percentile per-packet one-way delay: 48.348 ms

Loss rate: 0.01%

-- Flow 1:

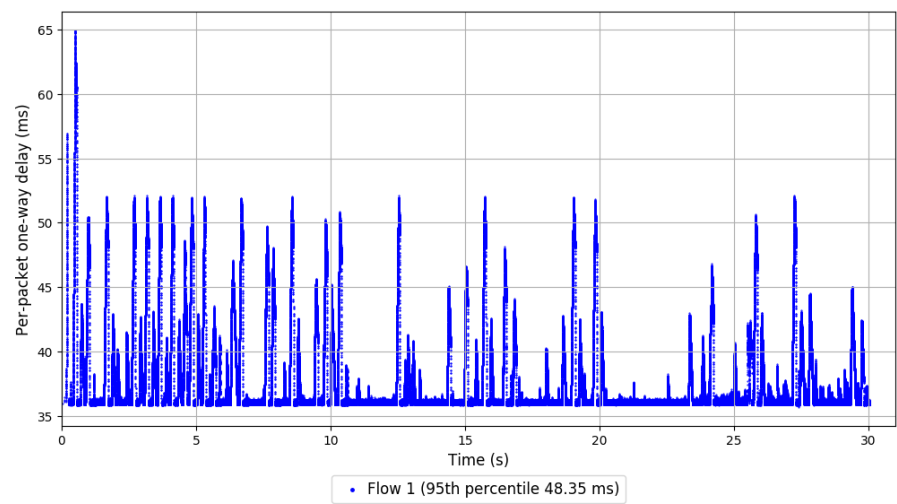
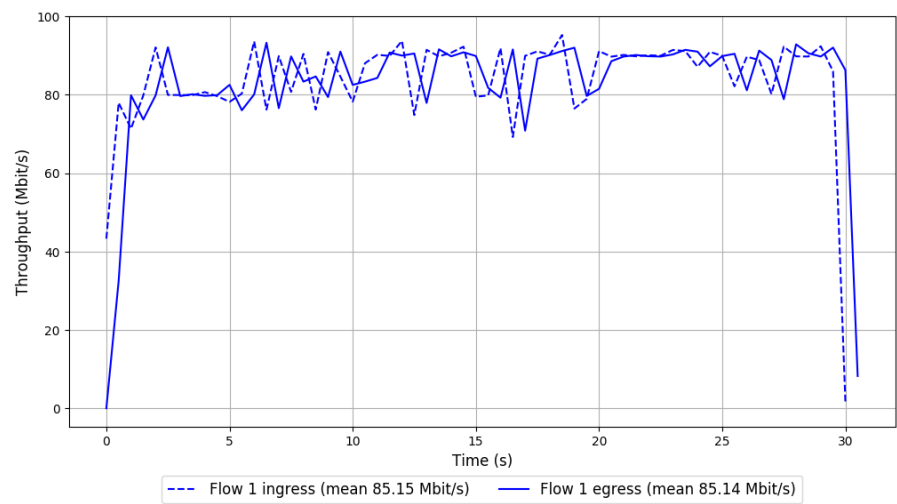
Average throughput: 85.14 Mbit/s

95th percentile per-packet one-way delay: 48.348 ms

Loss rate: 0.01%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-29 15:02:29

End at: 2018-06-29 15:02:59

Local clock offset: -2.398 ms

Remote clock offset: 2.838 ms

# Below is generated by plot.py at 2018-06-29 17:06:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 51.700 ms

Loss rate: 0.06%

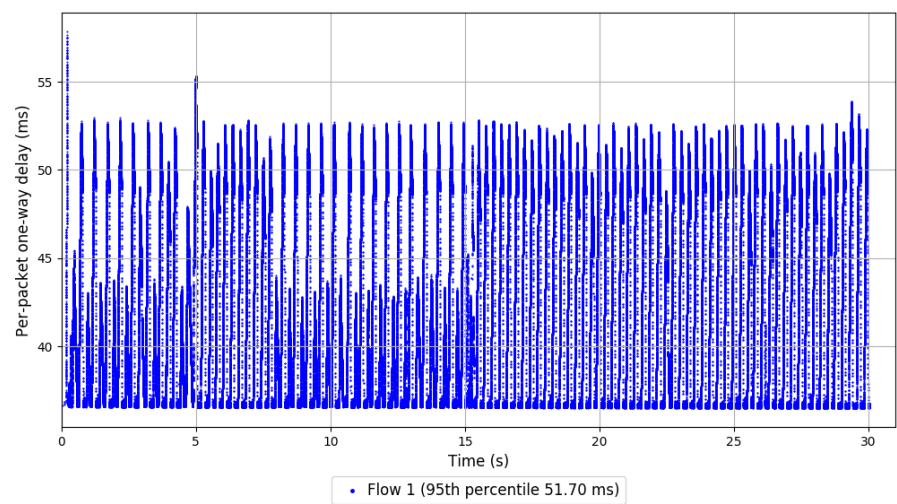
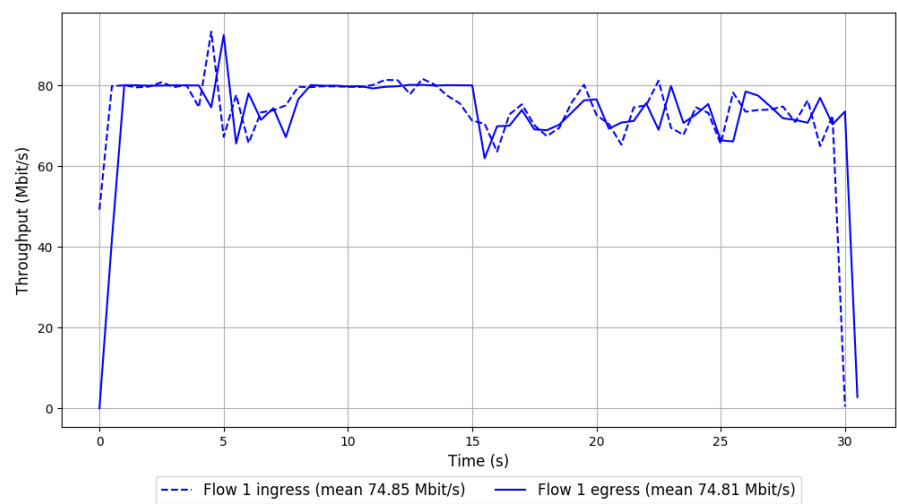
-- Flow 1:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 51.700 ms

Loss rate: 0.06%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-29 15:26:21

End at: 2018-06-29 15:26:51

Local clock offset: 0.697 ms

Remote clock offset: 4.027 ms

# Below is generated by plot.py at 2018-06-29 17:06:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 51.878 ms

Loss rate: 0.07%

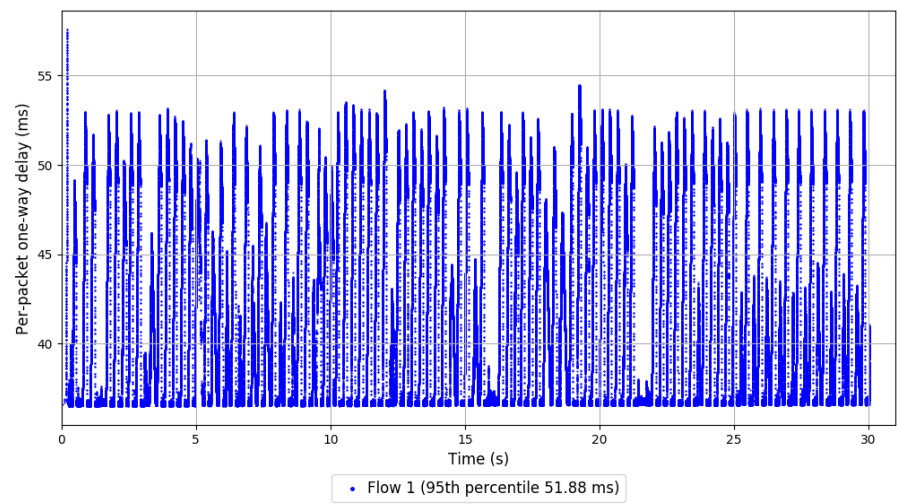
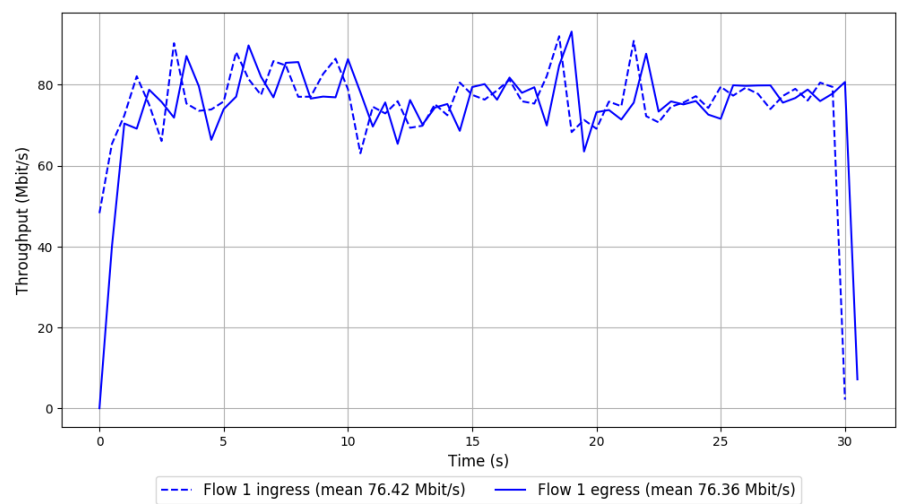
-- Flow 1:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 51.878 ms

Loss rate: 0.07%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-29 15:51:33

End at: 2018-06-29 15:52:03

Local clock offset: 0.418 ms

Remote clock offset: 4.313 ms

# Below is generated by plot.py at 2018-06-29 17:06:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.83 Mbit/s

95th percentile per-packet one-way delay: 51.133 ms

Loss rate: 0.01%

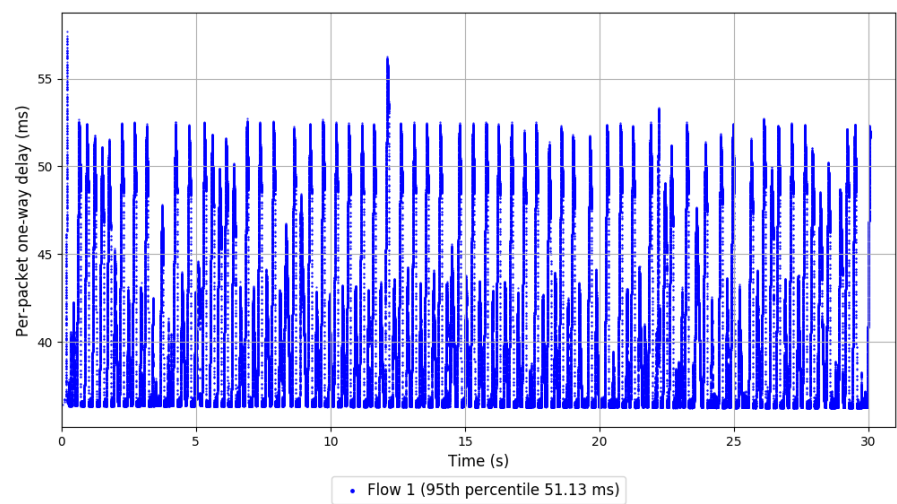
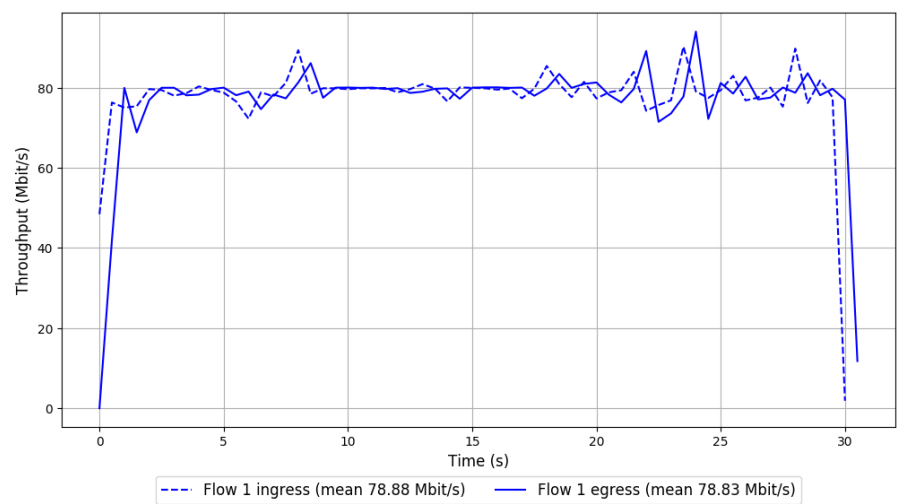
-- Flow 1:

Average throughput: 78.83 Mbit/s

95th percentile per-packet one-way delay: 51.133 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-29 16:15:23

End at: 2018-06-29 16:15:53

Local clock offset: -2.074 ms

Remote clock offset: 4.316 ms

# Below is generated by plot.py at 2018-06-29 17:08:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.82 Mbit/s

95th percentile per-packet one-way delay: 51.872 ms

Loss rate: 0.00%

-- Flow 1:

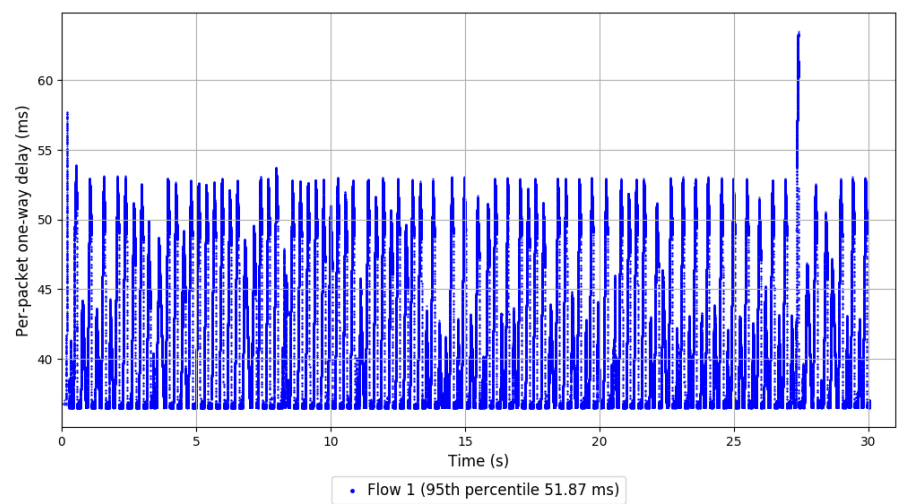
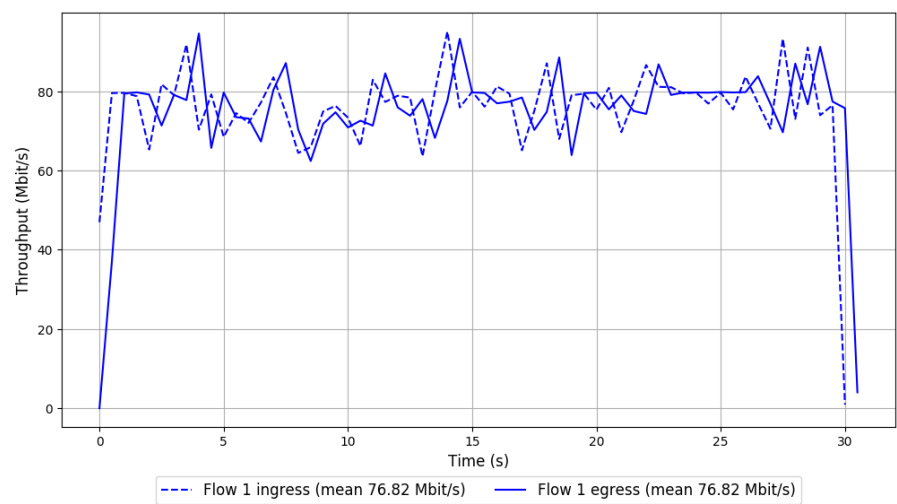
Average throughput: 76.82 Mbit/s

95th percentile per-packet one-way delay: 51.872 ms

Loss rate: 0.00%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-29 16:38:49

End at: 2018-06-29 16:39:19

Local clock offset: -1.764 ms

Remote clock offset: 5.68 ms

# Below is generated by plot.py at 2018-06-29 17:08:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 52.589 ms

Loss rate: 0.00%

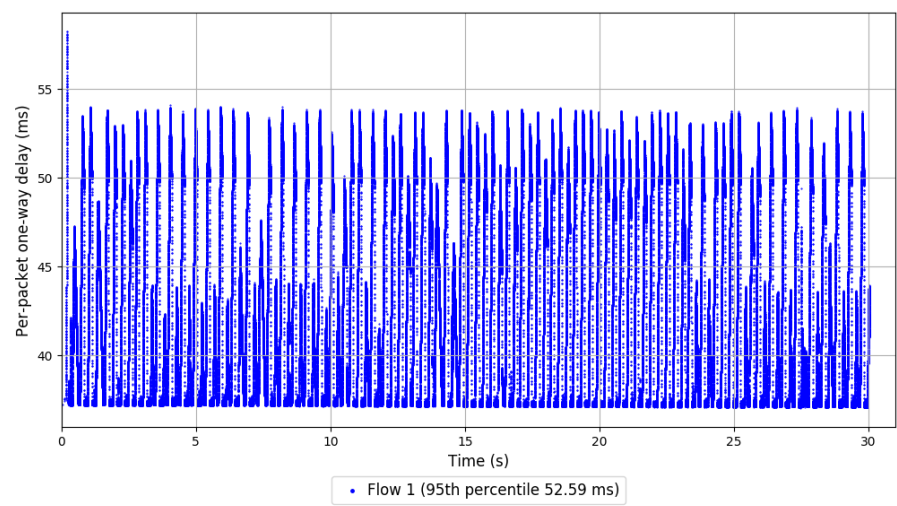
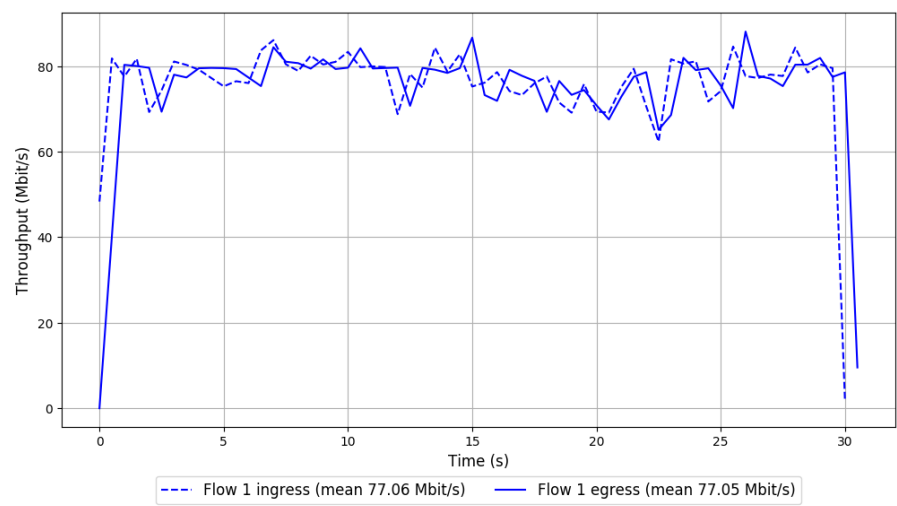
-- Flow 1:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 52.589 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-29 13:01:13

End at: 2018-06-29 13:01:43

Local clock offset: -3.681 ms

Remote clock offset: 6.447 ms

# Below is generated by plot.py at 2018-06-29 17:08:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 41.355 ms

Loss rate: 0.27%

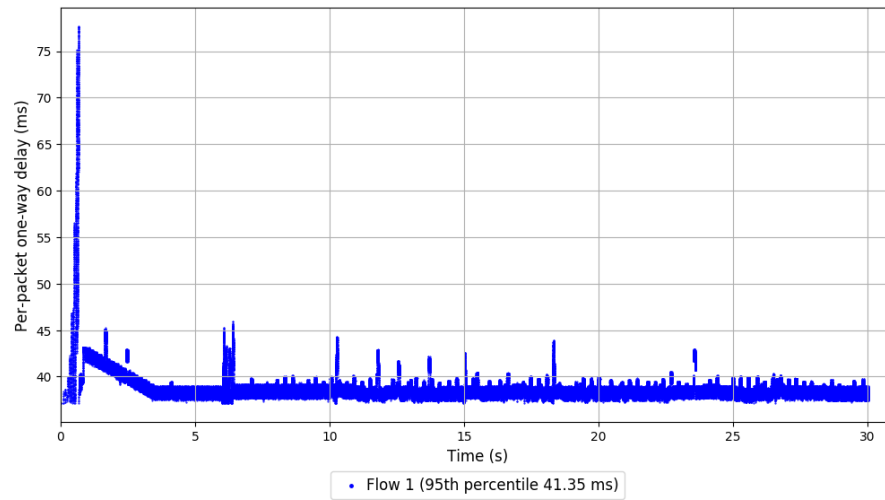
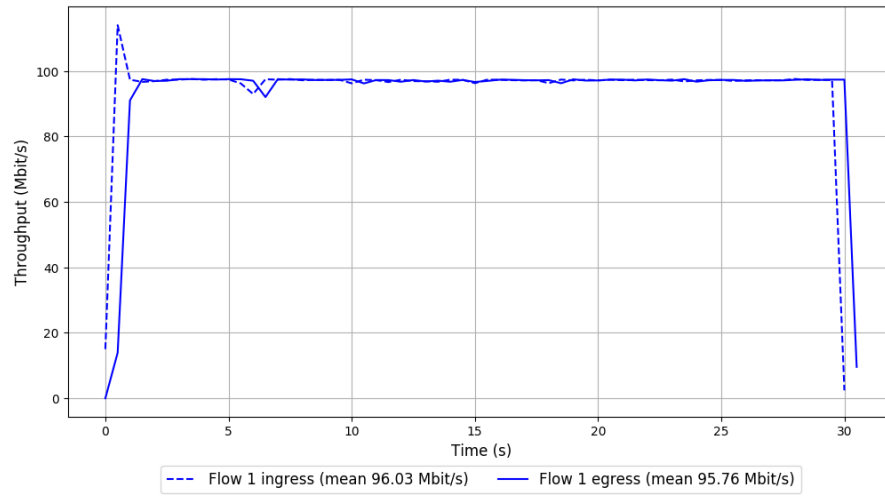
-- Flow 1:

Average throughput: 95.76 Mbit/s

95th percentile per-packet one-way delay: 41.355 ms

Loss rate: 0.27%

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



Run 2: Statistics of TCP Vegas

Start at: 2018-06-29 13:24:49

End at: 2018-06-29 13:25:19

Local clock offset: -3.633 ms

Remote clock offset: 3.596 ms

# Below is generated by plot.py at 2018-06-29 17:08:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 41.080 ms

Loss rate: 0.27%

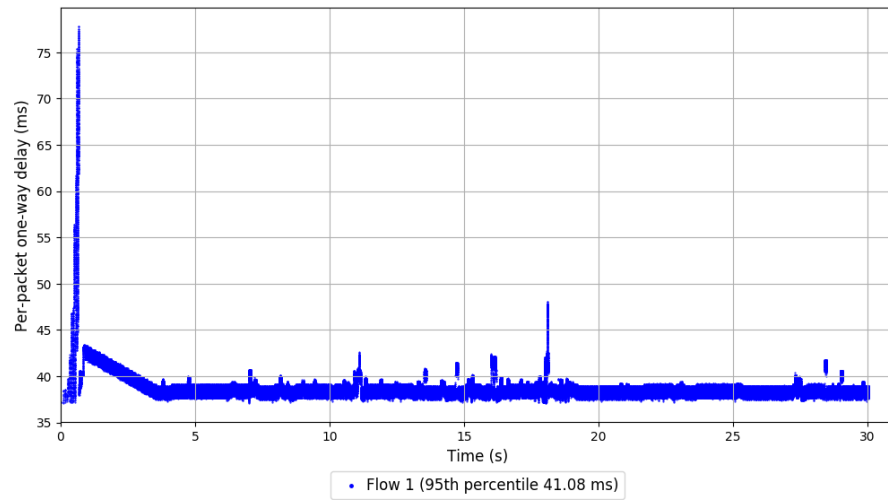
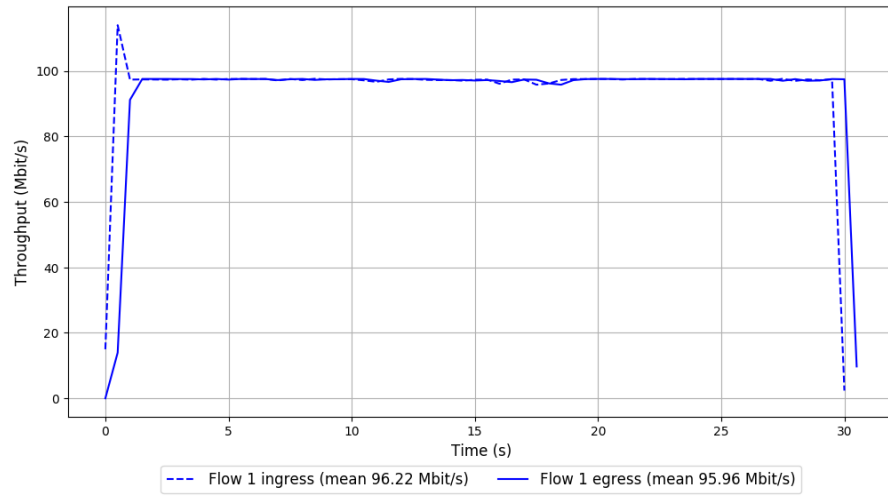
-- Flow 1:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 41.080 ms

Loss rate: 0.27%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-06-29 13:47:44

End at: 2018-06-29 13:48:14

Local clock offset: -4.368 ms

Remote clock offset: 2.591 ms

# Below is generated by plot.py at 2018-06-29 17:08:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 43.883 ms

Loss rate: 0.27%

-- Flow 1:

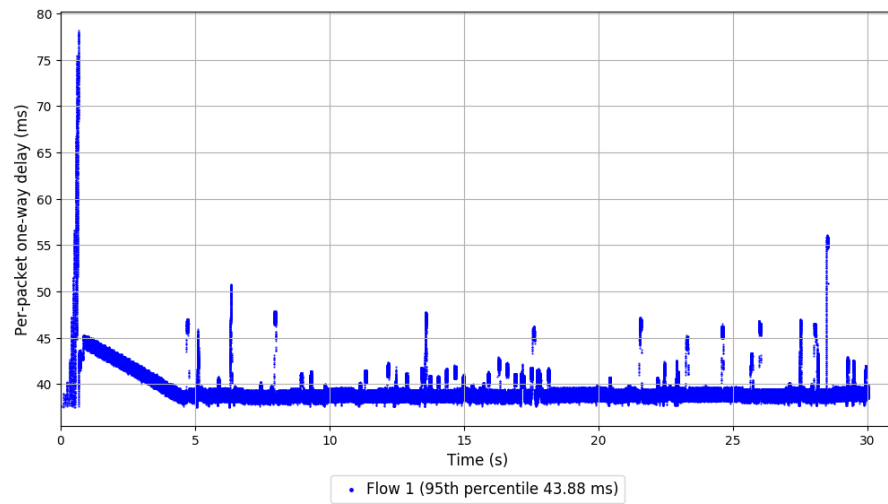
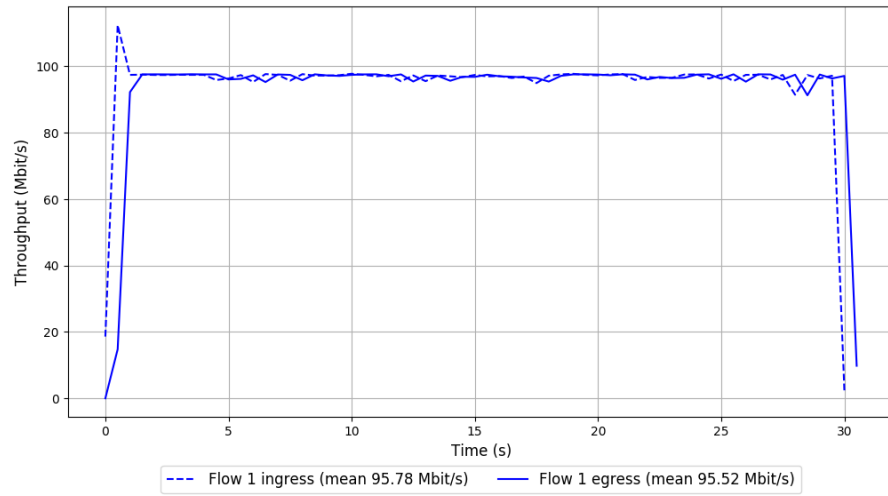
Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 43.883 ms

Loss rate: 0.27%



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



Run 4: Statistics of TCP Vegas

Start at: 2018-06-29 14:12:19

End at: 2018-06-29 14:12:49

Local clock offset: -0.228 ms

Remote clock offset: 3.997 ms

# Below is generated by plot.py at 2018-06-29 17:08:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 39.965 ms

Loss rate: 0.07%

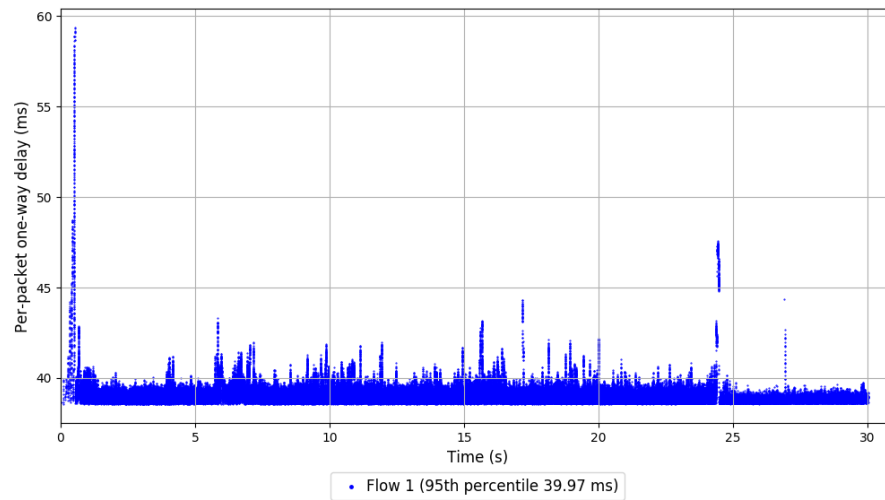
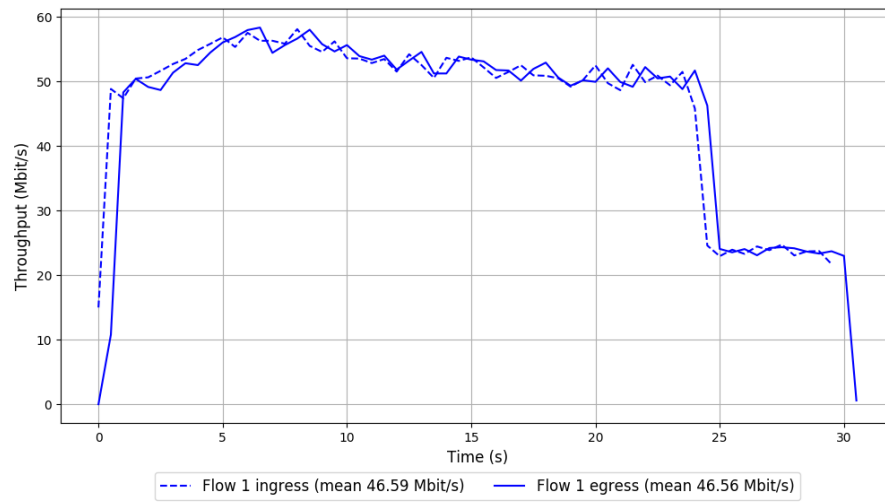
-- Flow 1:

Average throughput: 46.56 Mbit/s

95th percentile per-packet one-way delay: 39.965 ms

Loss rate: 0.07%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-06-29 14:36:40

End at: 2018-06-29 14:37:10

Local clock offset: -2.862 ms

Remote clock offset: 0.789 ms

# Below is generated by plot.py at 2018-06-29 17:08:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 37.852 ms

Loss rate: 0.00%

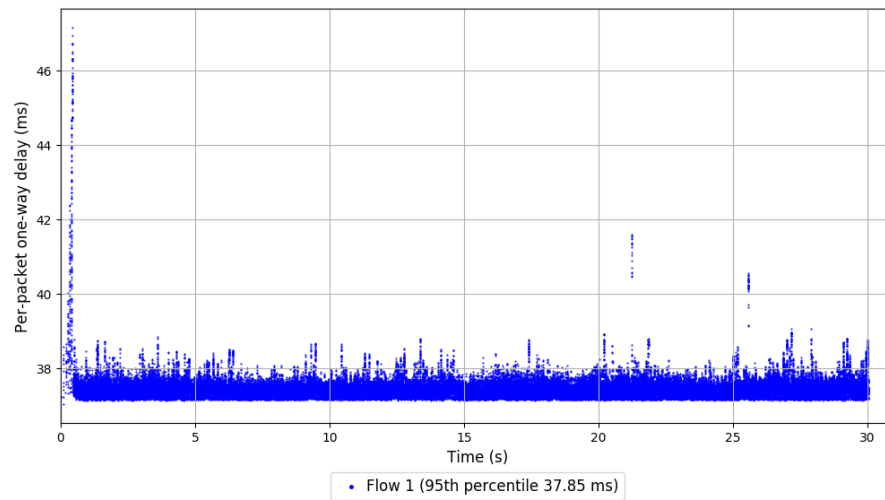
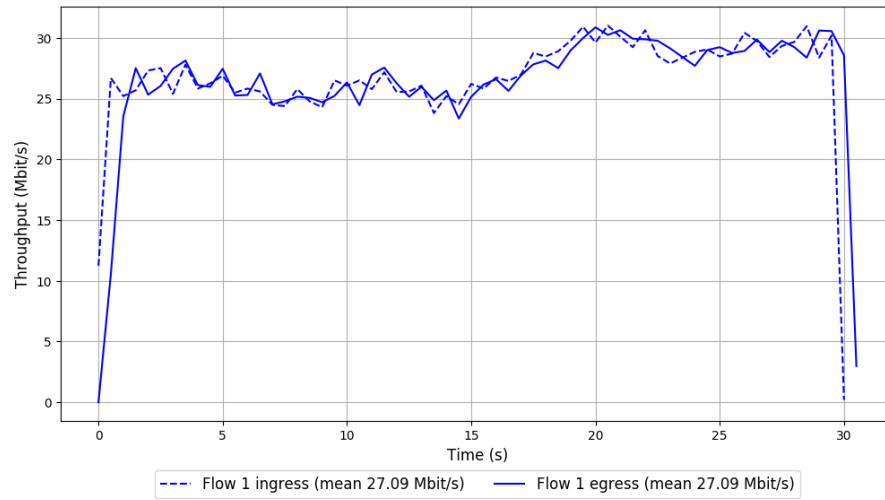
-- Flow 1:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 37.852 ms

Loss rate: 0.00%

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



Run 6: Statistics of TCP Vegas

Start at: 2018-06-29 15:01:02

End at: 2018-06-29 15:01:32

Local clock offset: -2.312 ms

Remote clock offset: 2.526 ms

# Below is generated by plot.py at 2018-06-29 17:08:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 42.415 ms

Loss rate: 0.35%

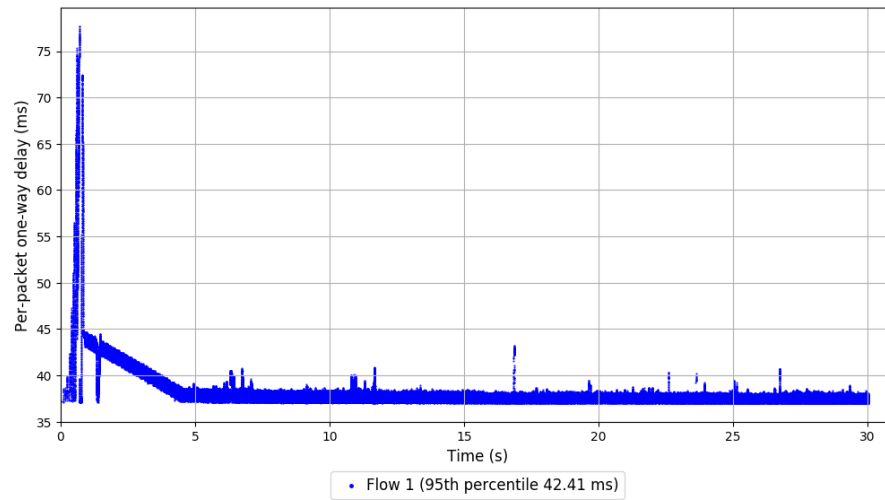
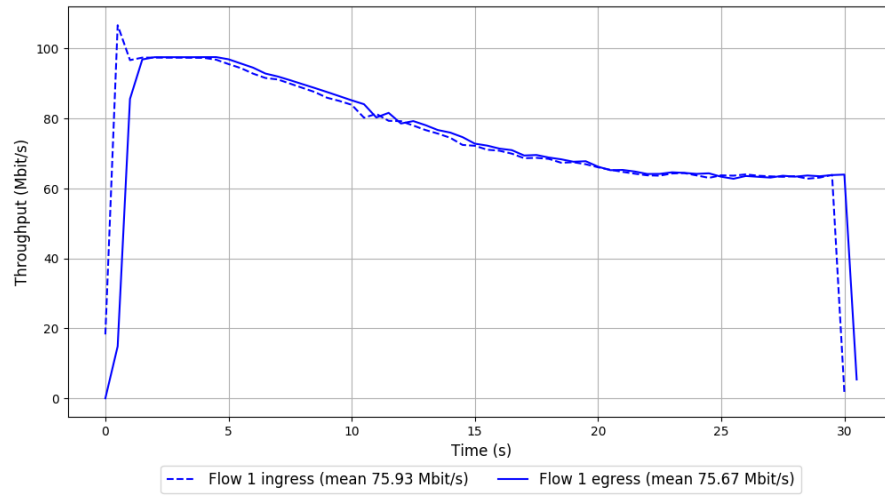
-- Flow 1:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 42.415 ms

Loss rate: 0.35%

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



Run 7: Statistics of TCP Vegas

Start at: 2018-06-29 15:24:52

End at: 2018-06-29 15:25:22

Local clock offset: 0.296 ms

Remote clock offset: 3.949 ms

# Below is generated by plot.py at 2018-06-29 17:08:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.72 Mbit/s

95th percentile per-packet one-way delay: 41.333 ms

Loss rate: 0.35%

-- Flow 1:

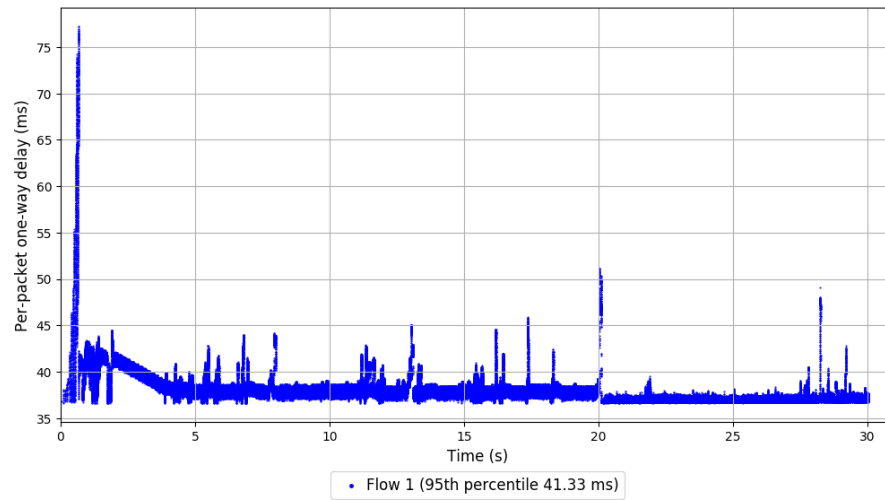
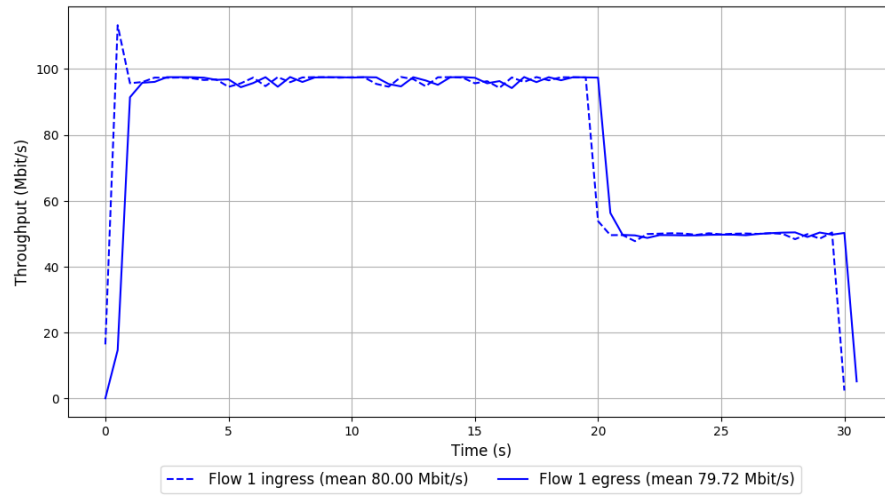
Average throughput: 79.72 Mbit/s

95th percentile per-packet one-way delay: 41.333 ms

Loss rate: 0.35%



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



Run 8: Statistics of TCP Vegas

Start at: 2018-06-29 15:49:59

End at: 2018-06-29 15:50:29

Local clock offset: 0.793 ms

Remote clock offset: 4.232 ms

# Below is generated by plot.py at 2018-06-29 17:08:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 40.117 ms

Loss rate: 0.00%

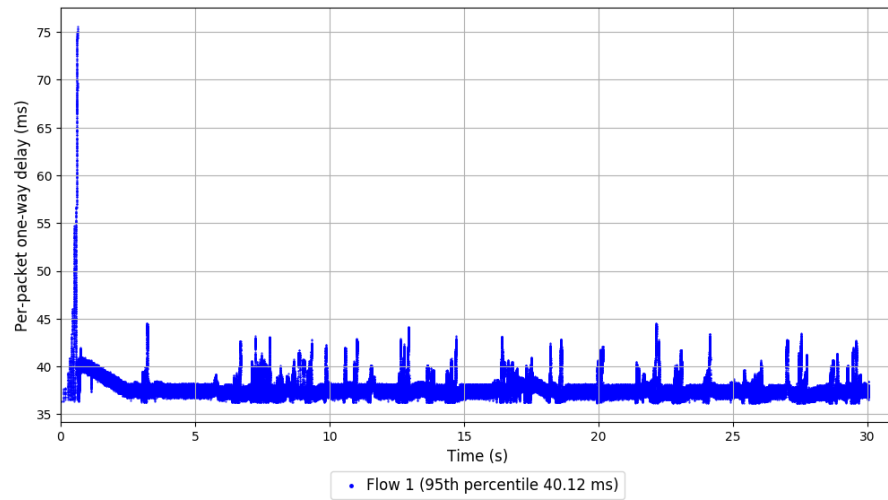
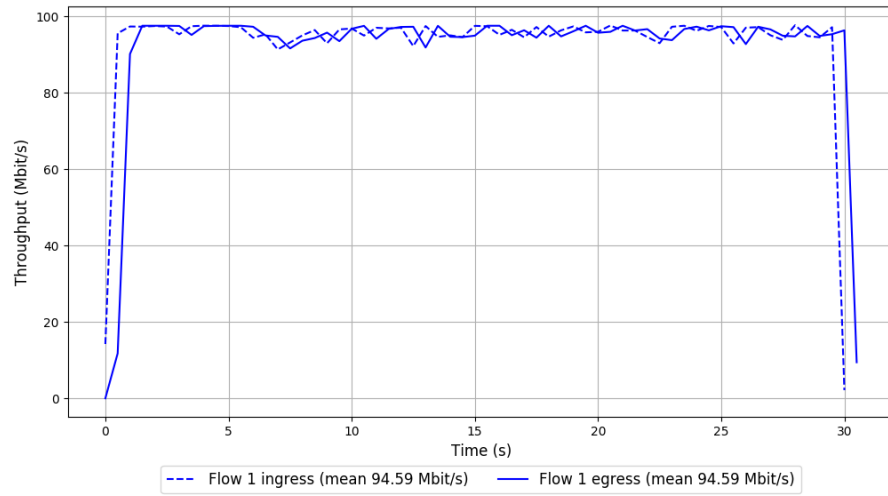
-- Flow 1:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 40.117 ms

Loss rate: 0.00%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-06-29 16:13:52

End at: 2018-06-29 16:14:22

Local clock offset: -1.944 ms

Remote clock offset: 4.291 ms

# Below is generated by plot.py at 2018-06-29 17:08:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 41.650 ms

Loss rate: 0.33%

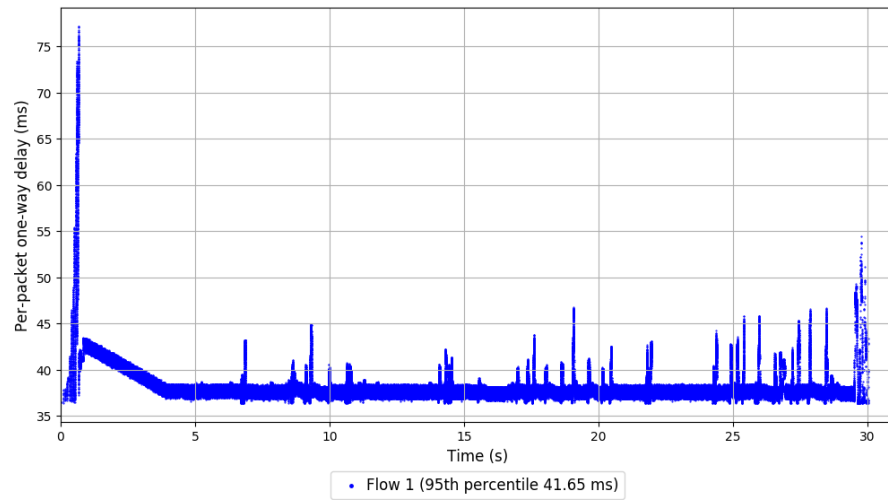
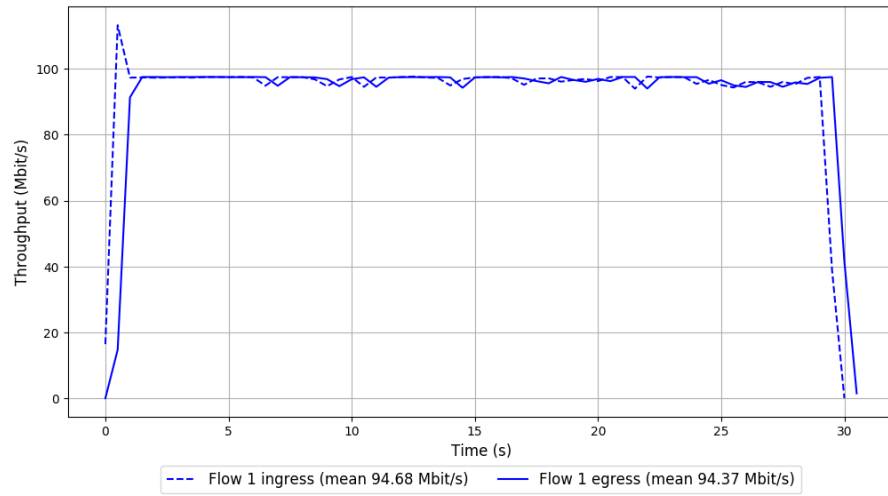
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 41.650 ms

Loss rate: 0.33%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-06-29 16:37:28

End at: 2018-06-29 16:37:58

Local clock offset: -1.741 ms

Remote clock offset: 5.254 ms

# Below is generated by plot.py at 2018-06-29 17:08:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 43.111 ms

Loss rate: 0.33%

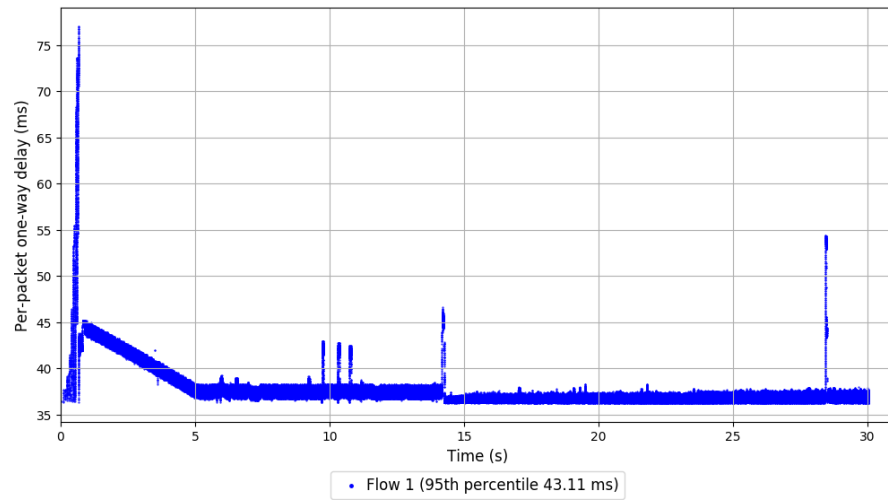
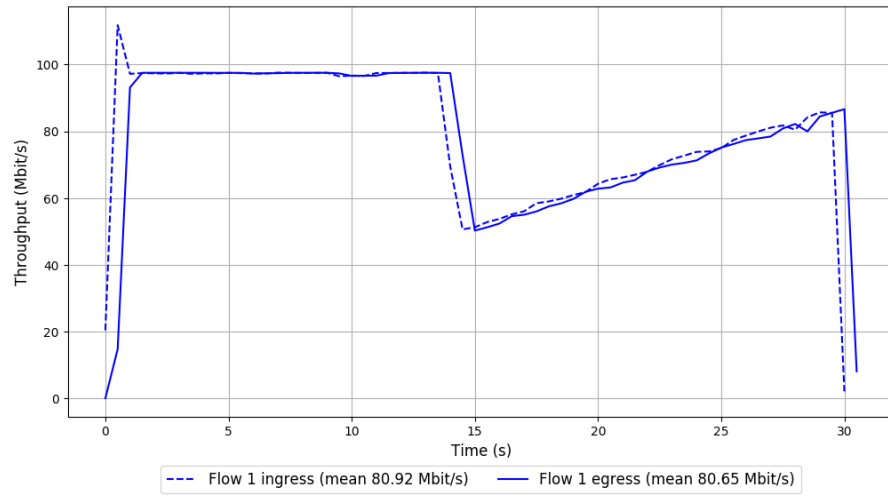
-- Flow 1:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 43.111 ms

Loss rate: 0.33%

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



Run 1: Statistics of Verus

Start at: 2018-06-29 12:58:33

End at: 2018-06-29 12:59:03

Local clock offset: -4.265 ms

Remote clock offset: 6.3 ms

# Below is generated by plot.py at 2018-06-29 17:08:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.15 Mbit/s

95th percentile per-packet one-way delay: 72.192 ms

Loss rate: 26.11%

-- Flow 1:

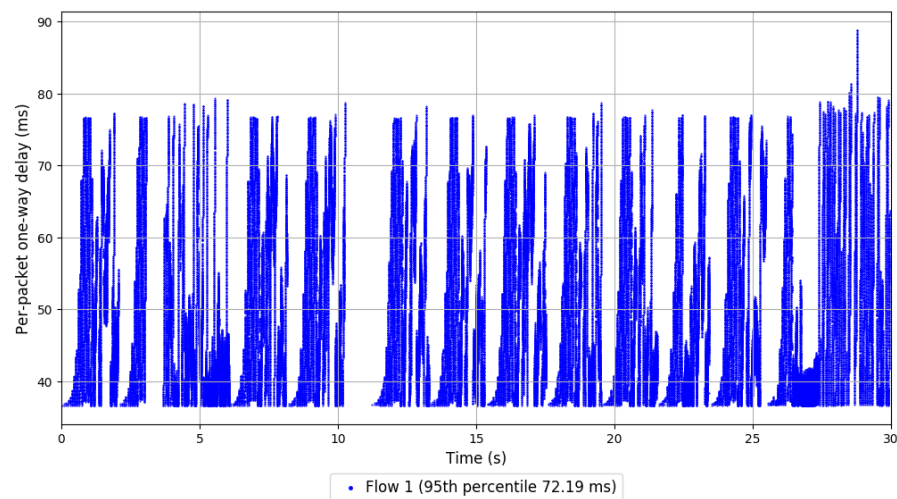
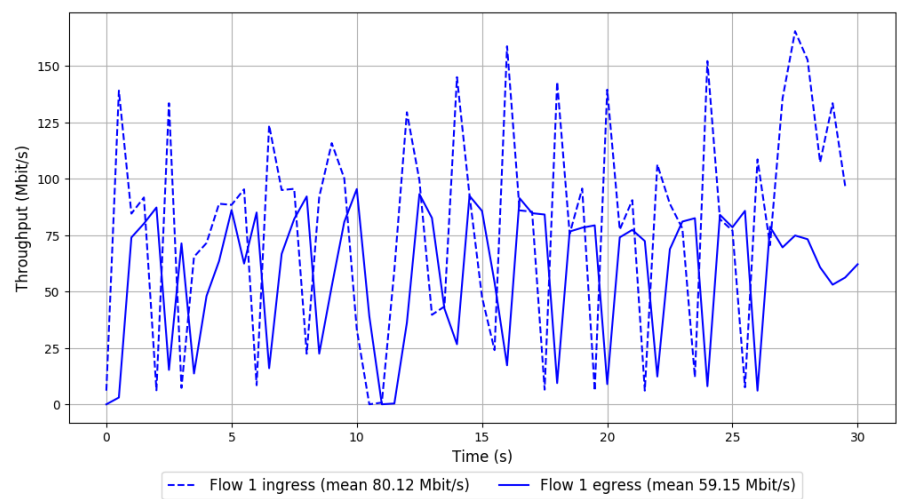
Average throughput: 59.15 Mbit/s

95th percentile per-packet one-way delay: 72.192 ms

Loss rate: 26.11%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-29 13:22:08

End at: 2018-06-29 13:22:38

Local clock offset: -3.687 ms

Remote clock offset: 3.947 ms

# Below is generated by plot.py at 2018-06-29 17:08:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 71.760 ms

Loss rate: 20.80%

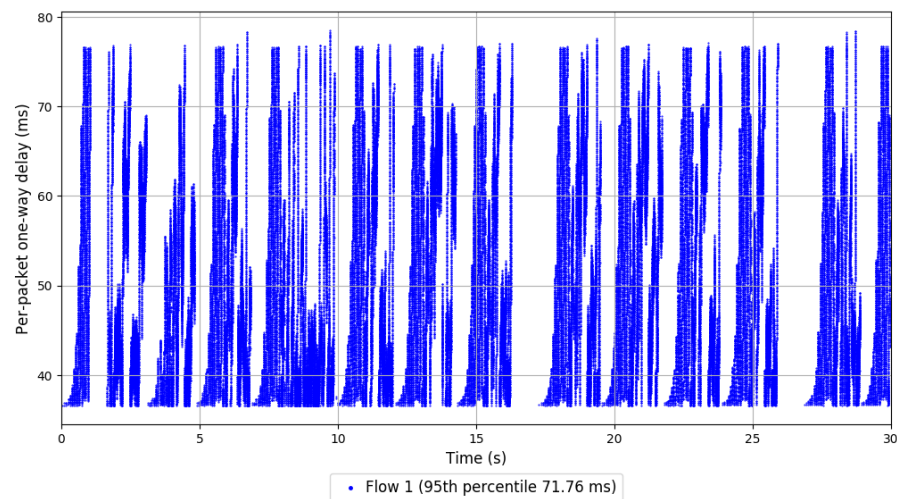
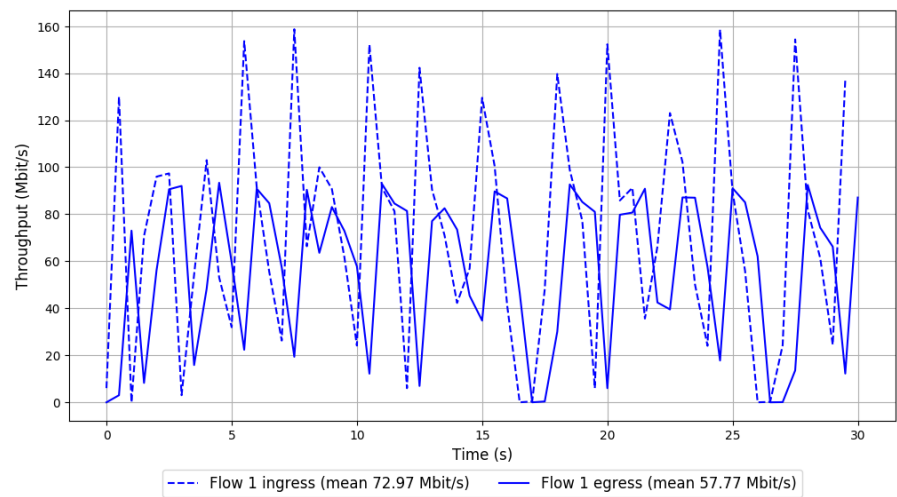
-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 71.760 ms

Loss rate: 20.80%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-29 13:45:10

End at: 2018-06-29 13:45:40

Local clock offset: -5.471 ms

Remote clock offset: 2.153 ms

# Below is generated by plot.py at 2018-06-29 17:09:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.28 Mbit/s

95th percentile per-packet one-way delay: 72.629 ms

Loss rate: 25.57%

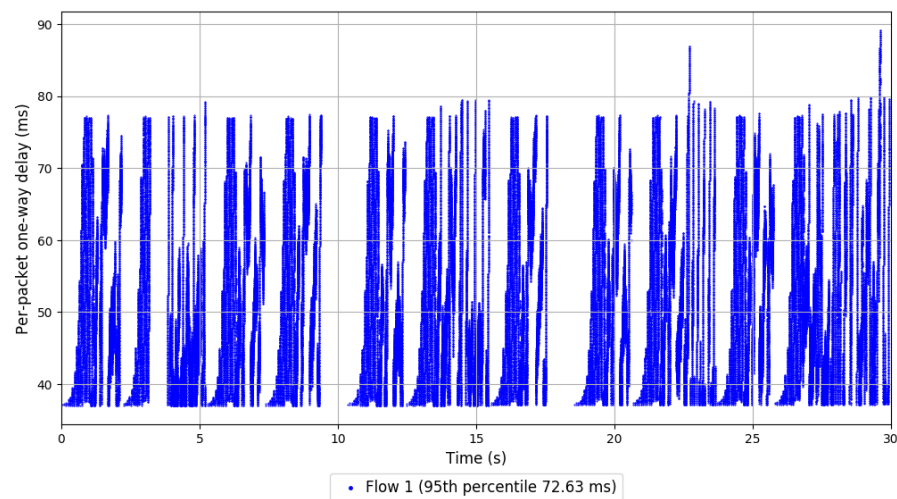
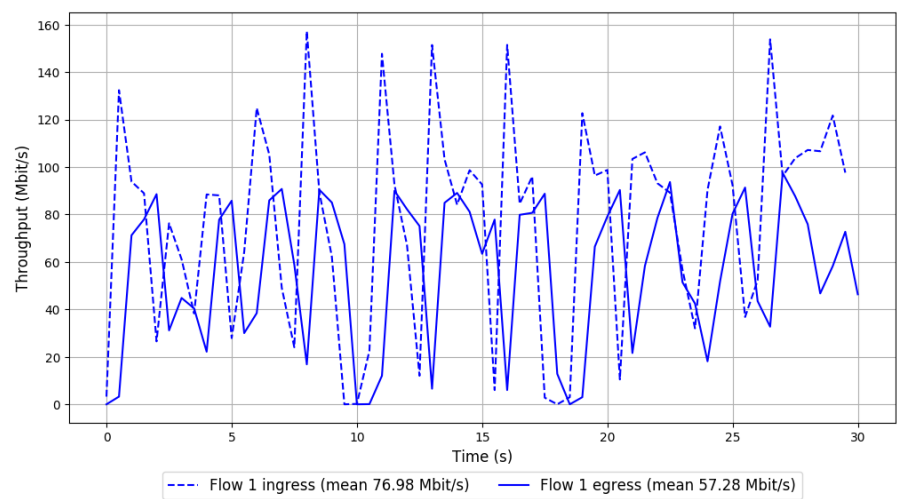
-- Flow 1:

Average throughput: 57.28 Mbit/s

95th percentile per-packet one-way delay: 72.629 ms

Loss rate: 25.57%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-29 14:09:28

End at: 2018-06-29 14:09:58

Local clock offset: -0.159 ms

Remote clock offset: 2.819 ms

# Below is generated by plot.py at 2018-06-29 17:09:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.48 Mbit/s

95th percentile per-packet one-way delay: 71.354 ms

Loss rate: 22.41%

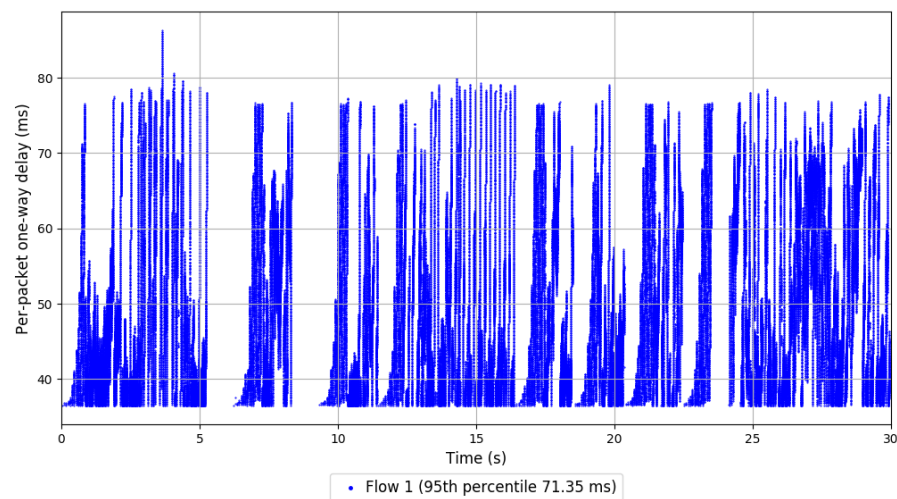
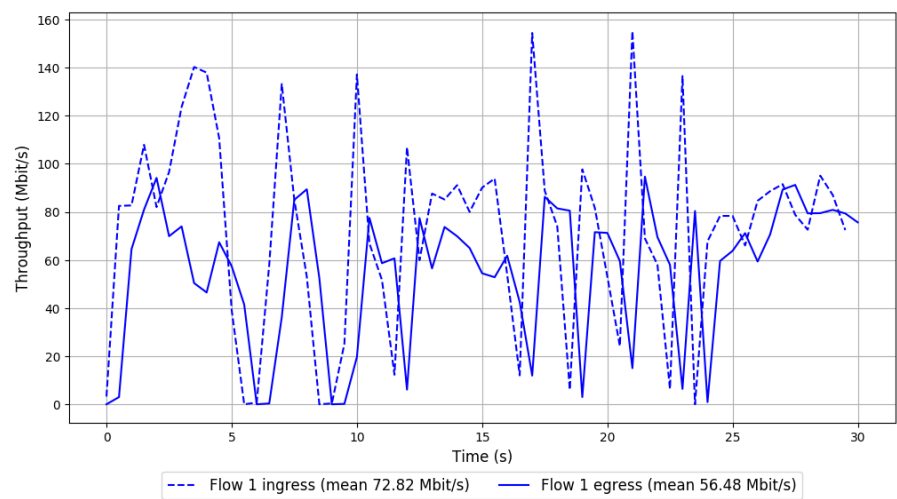
-- Flow 1:

Average throughput: 56.48 Mbit/s

95th percentile per-packet one-way delay: 71.354 ms

Loss rate: 22.41%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-29 14:33:50

End at: 2018-06-29 14:34:20

Local clock offset: -2.635 ms

Remote clock offset: 1.029 ms

# Below is generated by plot.py at 2018-06-29 17:09:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 70.481 ms

Loss rate: 19.42%

-- Flow 1:

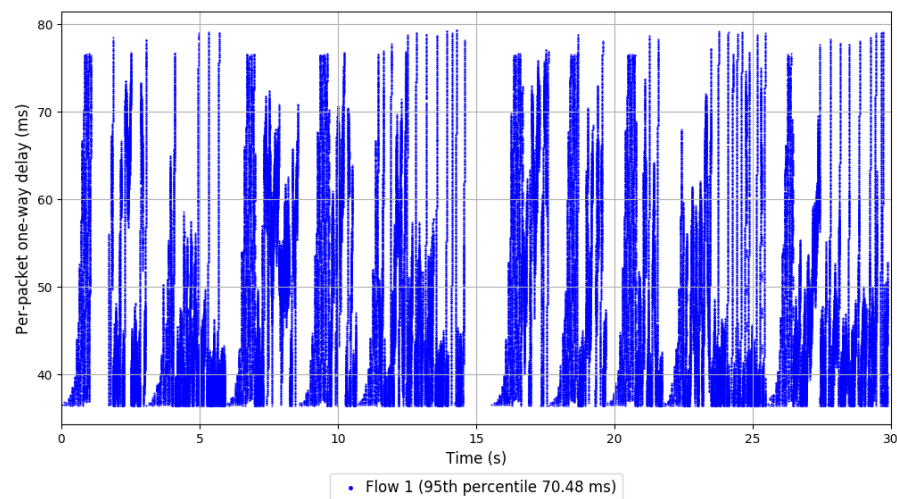
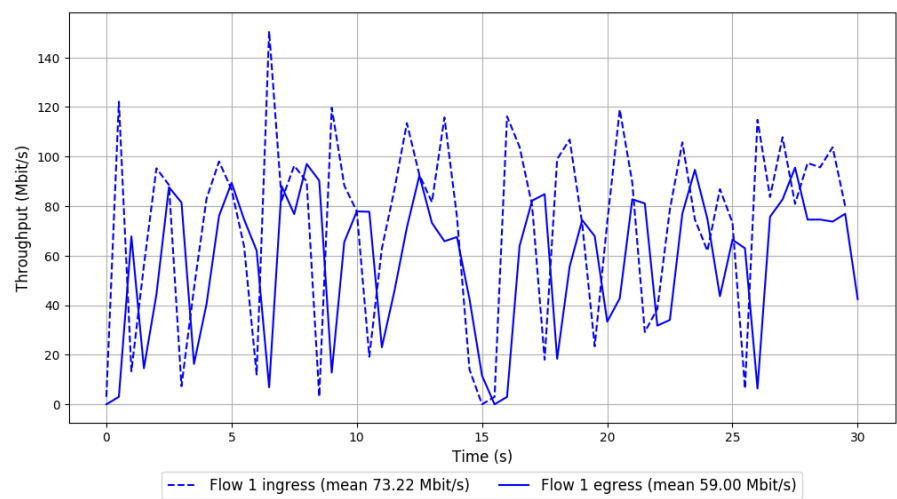
Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 70.481 ms

Loss rate: 19.42%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-29 14:58:20

End at: 2018-06-29 14:58:50

Local clock offset: -2.377 ms

Remote clock offset: 1.952 ms

# Below is generated by plot.py at 2018-06-29 17:09:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 72.054 ms

Loss rate: 21.88%

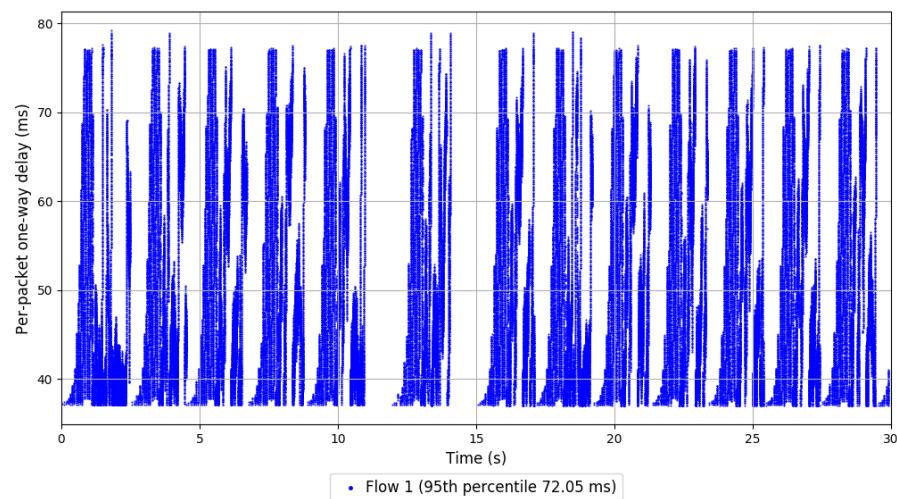
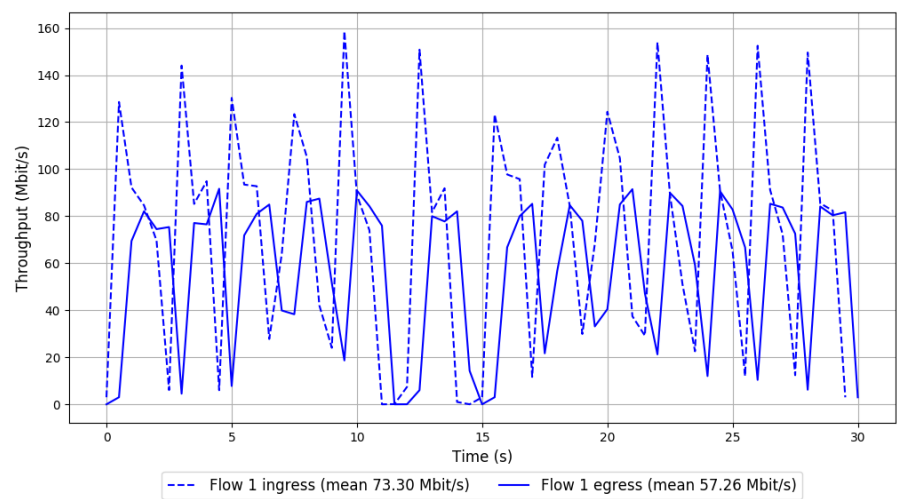
-- Flow 1:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 72.054 ms

Loss rate: 21.88%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-29 15:22:12

End at: 2018-06-29 15:22:42

Local clock offset: -0.196 ms

Remote clock offset: 3.99 ms

# Below is generated by plot.py at 2018-06-29 17:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.65 Mbit/s

95th percentile per-packet one-way delay: 73.462 ms

Loss rate: 41.60%

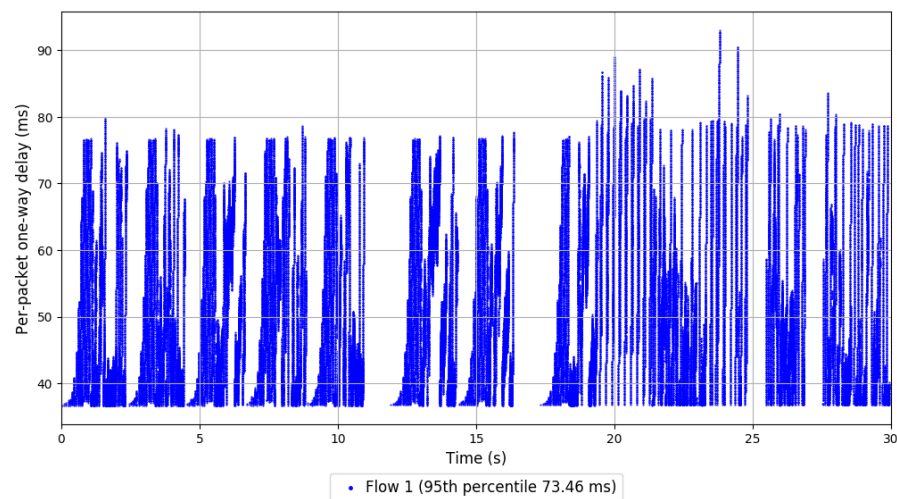
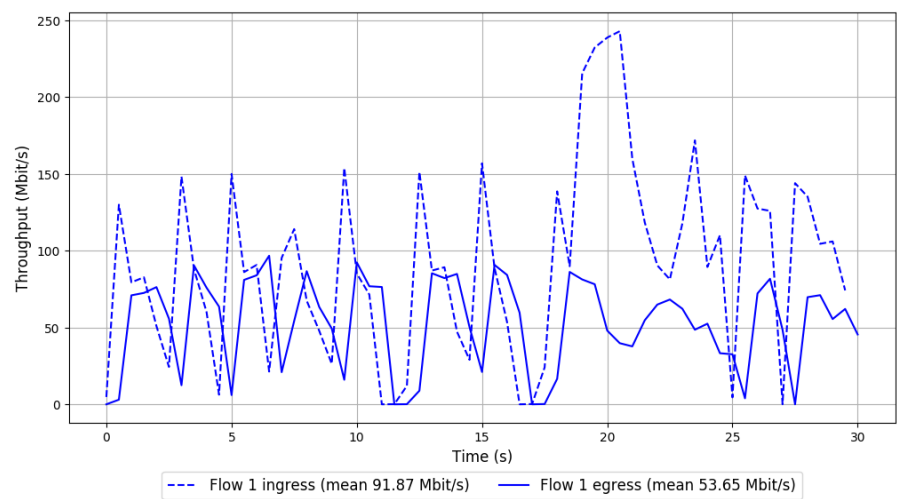
-- Flow 1:

Average throughput: 53.65 Mbit/s

95th percentile per-packet one-way delay: 73.462 ms

Loss rate: 41.60%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-29 15:47:13

End at: 2018-06-29 15:47:43

Local clock offset: 1.828 ms

Remote clock offset: 4.179 ms

# Below is generated by plot.py at 2018-06-29 17:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 72.632 ms

Loss rate: 35.73%

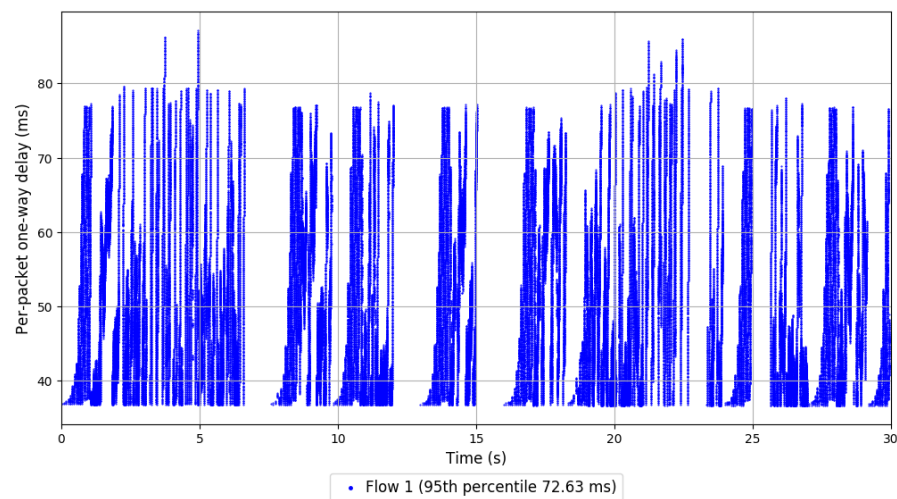
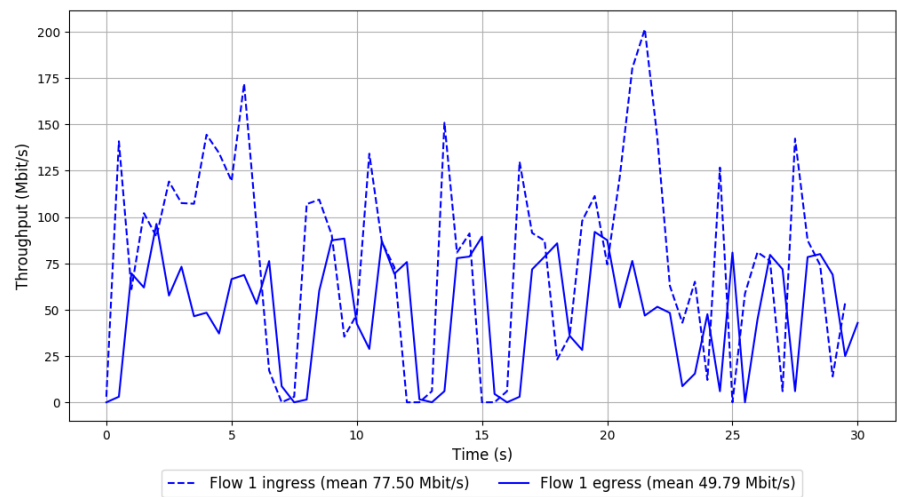
-- Flow 1:

Average throughput: 49.79 Mbit/s

95th percentile per-packet one-way delay: 72.632 ms

Loss rate: 35.73%

Run 8: Report of Verus — Data Link



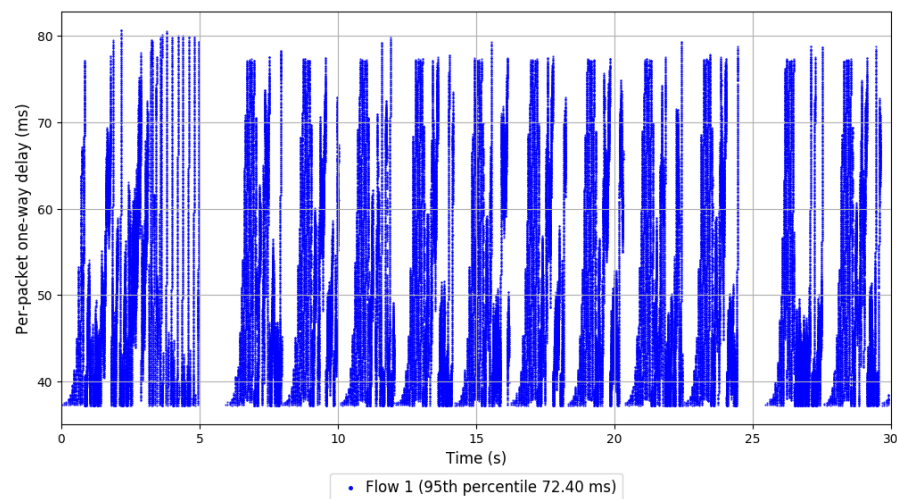
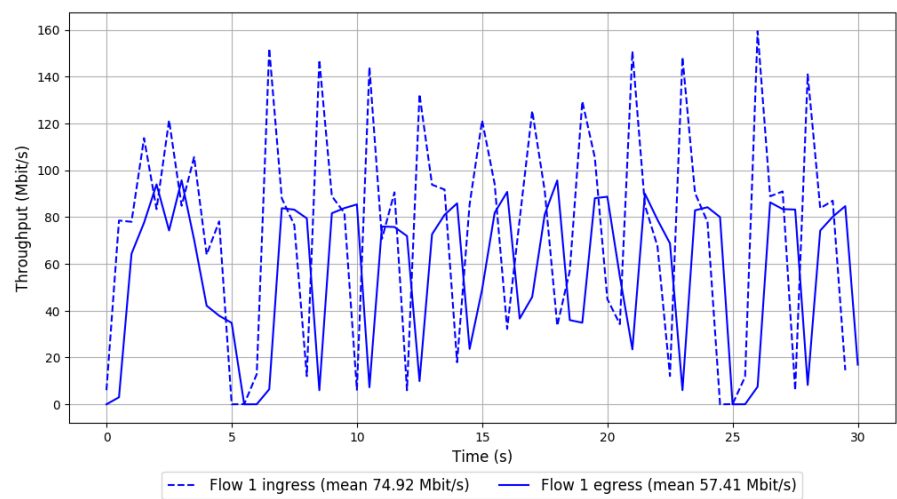
Run 9: Statistics of Verus

Start at: 2018-06-29 16:11:13  
End at: 2018-06-29 16:11:43  
Local clock offset: -1.908 ms  
Remote clock offset: 4.328 ms

# Below is generated by plot.py at 2018-06-29 17:09:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.41 Mbit/s  
95th percentile per-packet one-way delay: 72.397 ms  
Loss rate: 23.37%  
-- Flow 1:  
Average throughput: 57.41 Mbit/s  
95th percentile per-packet one-way delay: 72.397 ms  
Loss rate: 23.37%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-29 16:34:52

End at: 2018-06-29 16:35:22

Local clock offset: -1.707 ms

Remote clock offset: 4.612 ms

# Below is generated by plot.py at 2018-06-29 17:09:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 73.199 ms

Loss rate: 28.60%

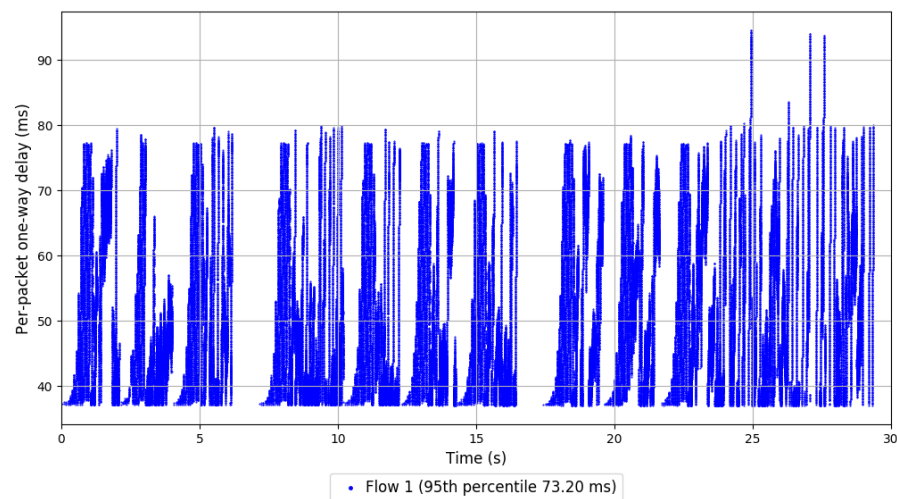
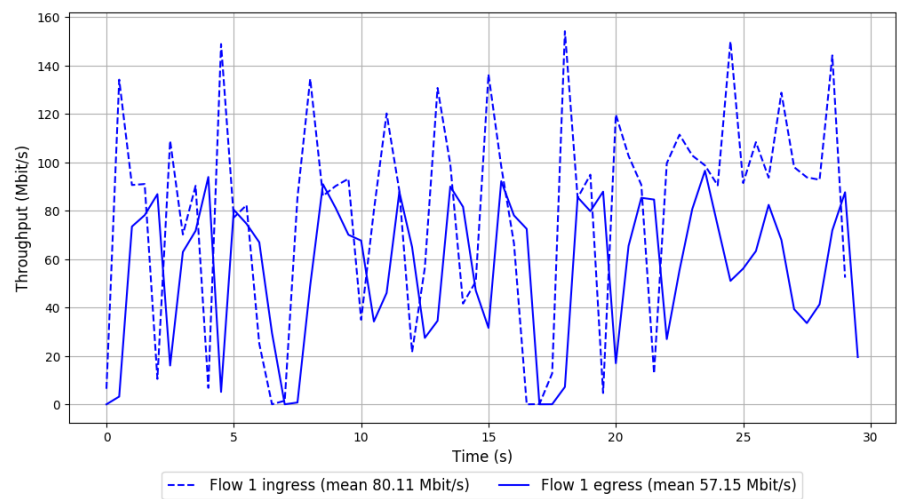
-- Flow 1:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 73.199 ms

Loss rate: 28.60%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-29 12:57:06

End at: 2018-06-29 12:57:36

Local clock offset: -4.574 ms

Remote clock offset: 6.169 ms

# Below is generated by plot.py at 2018-06-29 17:10:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.28 Mbit/s

95th percentile per-packet one-way delay: 56.607 ms

Loss rate: 0.66%

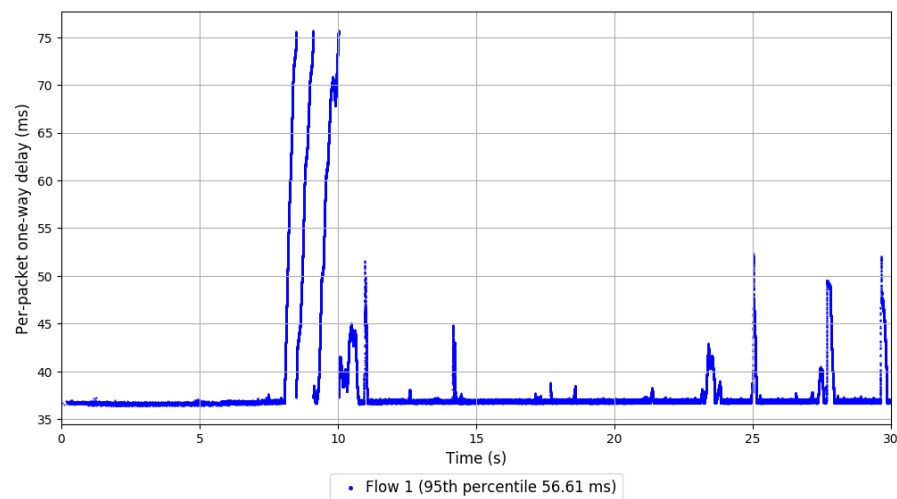
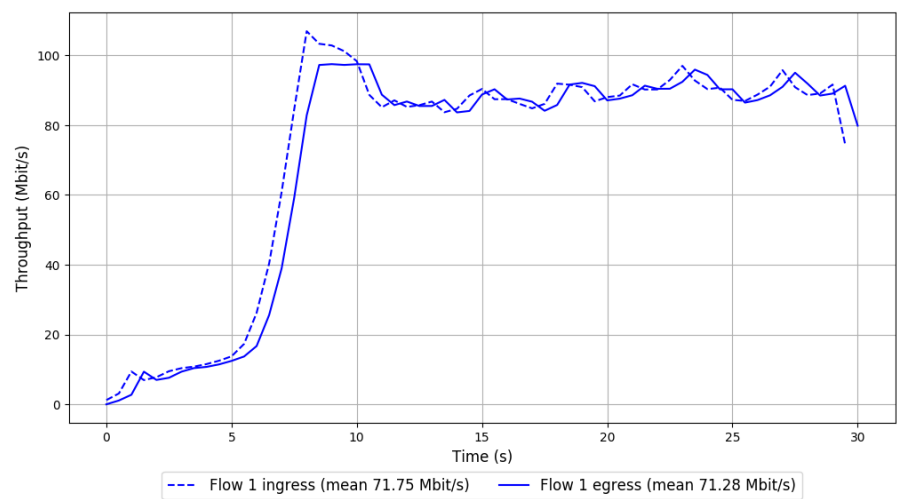
-- Flow 1:

Average throughput: 71.28 Mbit/s

95th percentile per-packet one-way delay: 56.607 ms

Loss rate: 0.66%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-29 13:20:36

End at: 2018-06-29 13:21:06

Local clock offset: -3.621 ms

Remote clock offset: 4.194 ms

# Below is generated by plot.py at 2018-06-29 17:10:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.20 Mbit/s

95th percentile per-packet one-way delay: 38.926 ms

Loss rate: 0.00%

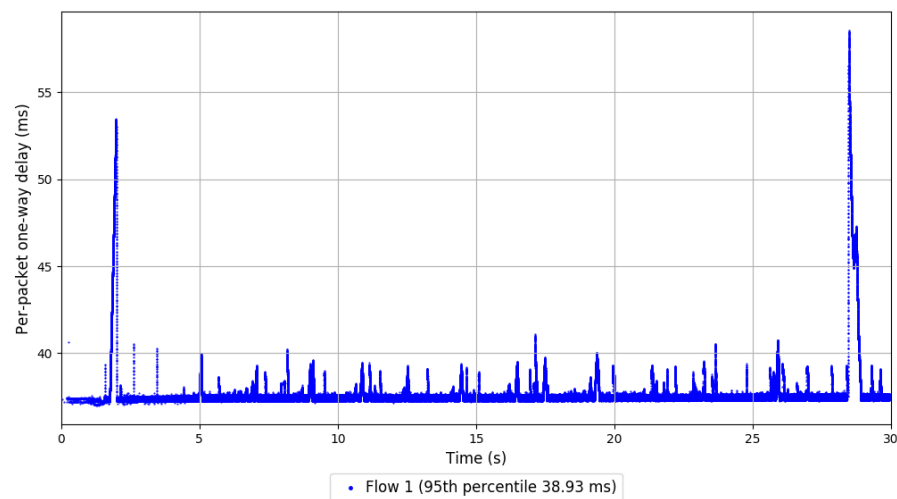
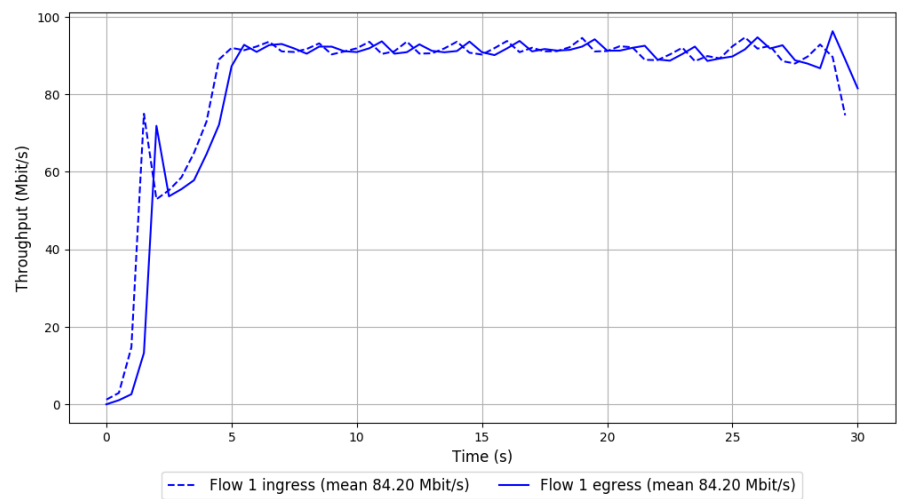
-- Flow 1:

Average throughput: 84.20 Mbit/s

95th percentile per-packet one-way delay: 38.926 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-29 13:43:49

End at: 2018-06-29 13:44:19

Local clock offset: -5.301 ms

Remote clock offset: 1.931 ms

# Below is generated by plot.py at 2018-06-29 17:10:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 40.751 ms

Loss rate: 0.07%

-- Flow 1:

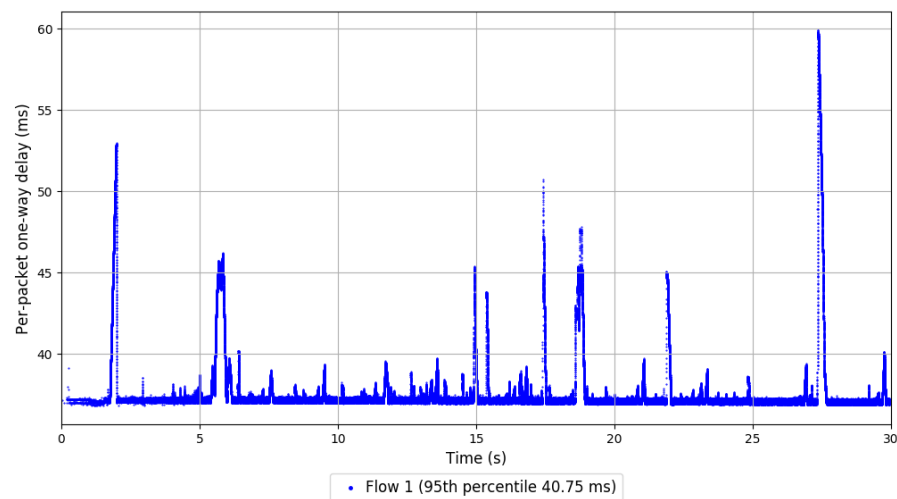
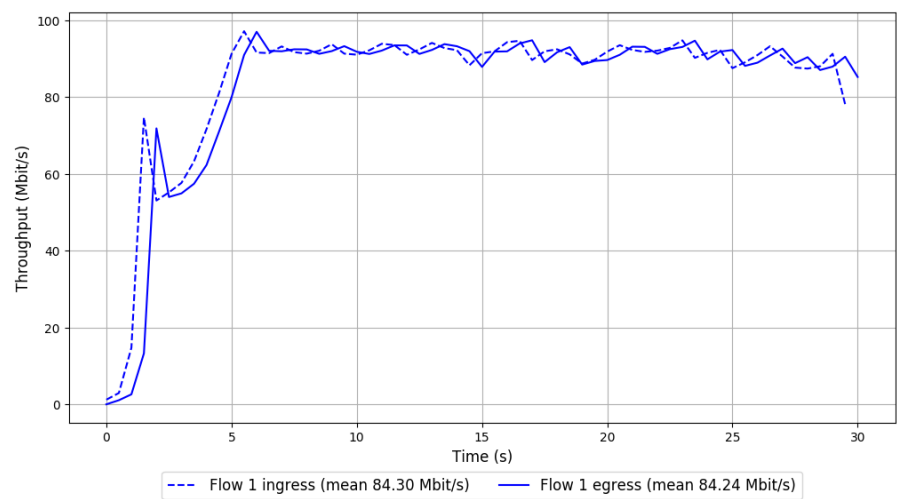
Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 40.751 ms

Loss rate: 0.07%



Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-29 14:07:56

End at: 2018-06-29 14:08:26

Local clock offset: -0.281 ms

Remote clock offset: 2.851 ms

# Below is generated by plot.py at 2018-06-29 17:10:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.14 Mbit/s

95th percentile per-packet one-way delay: 38.596 ms

Loss rate: 0.03%

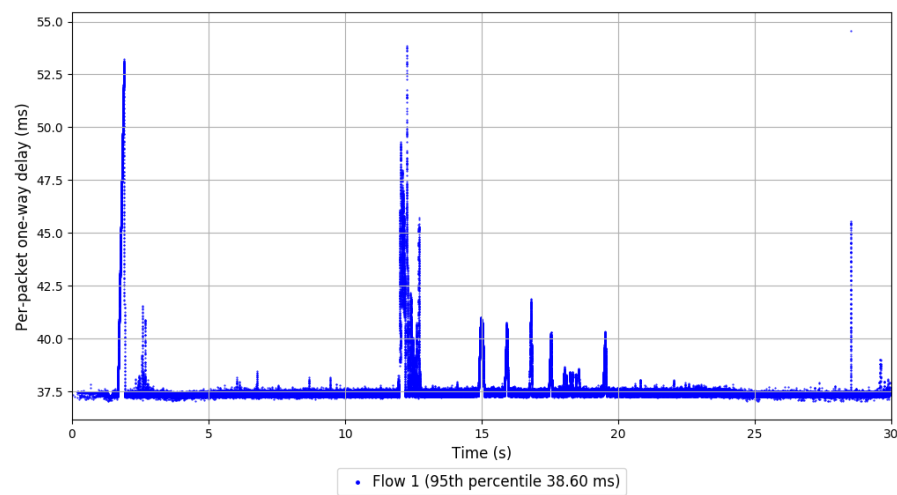
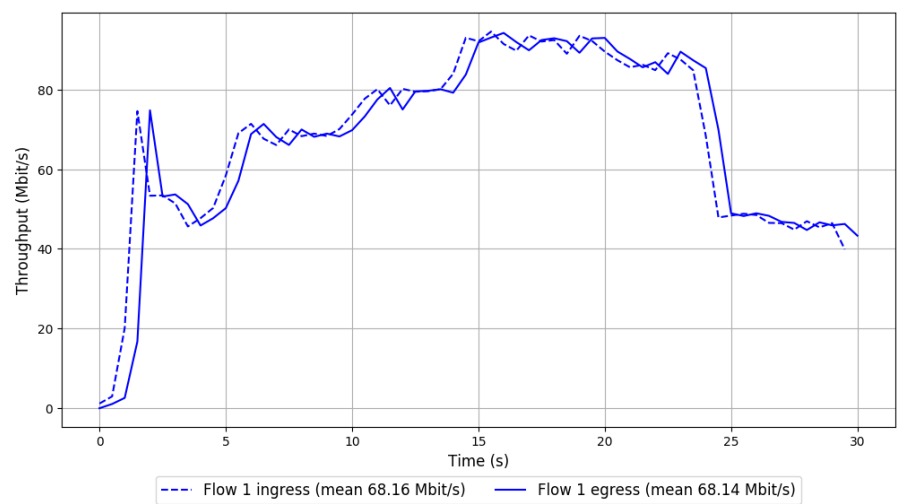
-- Flow 1:

Average throughput: 68.14 Mbit/s

95th percentile per-packet one-way delay: 38.596 ms

Loss rate: 0.03%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-29 14:32:30

End at: 2018-06-29 14:33:00

Local clock offset: -2.643 ms

Remote clock offset: 1.069 ms

# Below is generated by plot.py at 2018-06-29 17:10:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.58 Mbit/s

95th percentile per-packet one-way delay: 37.427 ms

Loss rate: 0.01%

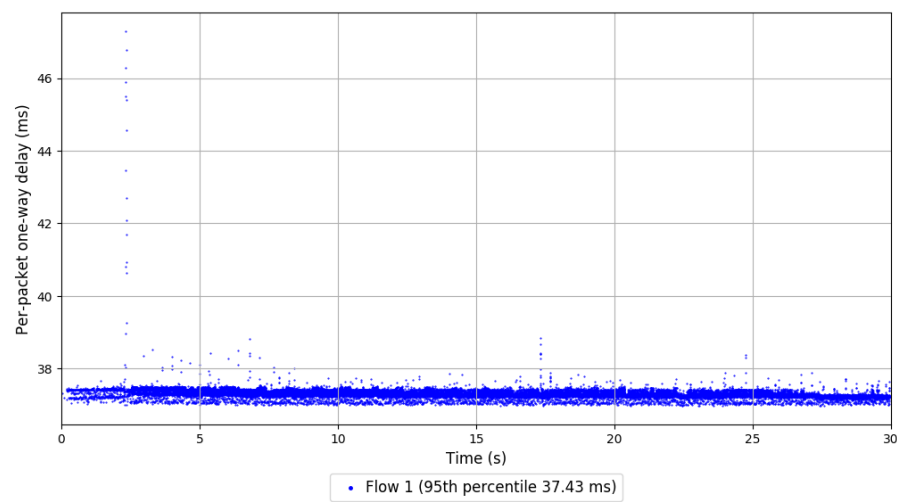
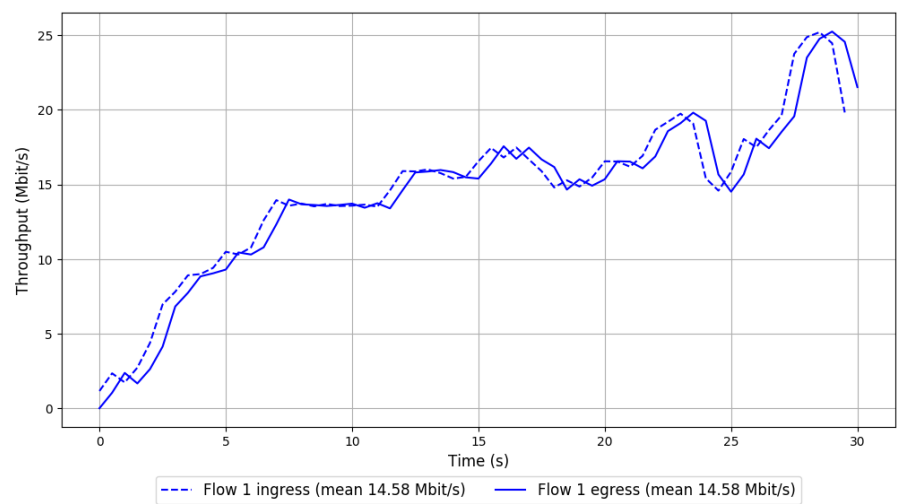
-- Flow 1:

Average throughput: 14.58 Mbit/s

95th percentile per-packet one-way delay: 37.427 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-29 14:56:50

End at: 2018-06-29 14:57:20

Local clock offset: -2.413 ms

Remote clock offset: 1.507 ms

# Below is generated by plot.py at 2018-06-29 17:10:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.36 Mbit/s

95th percentile per-packet one-way delay: 44.450 ms

Loss rate: 0.01%

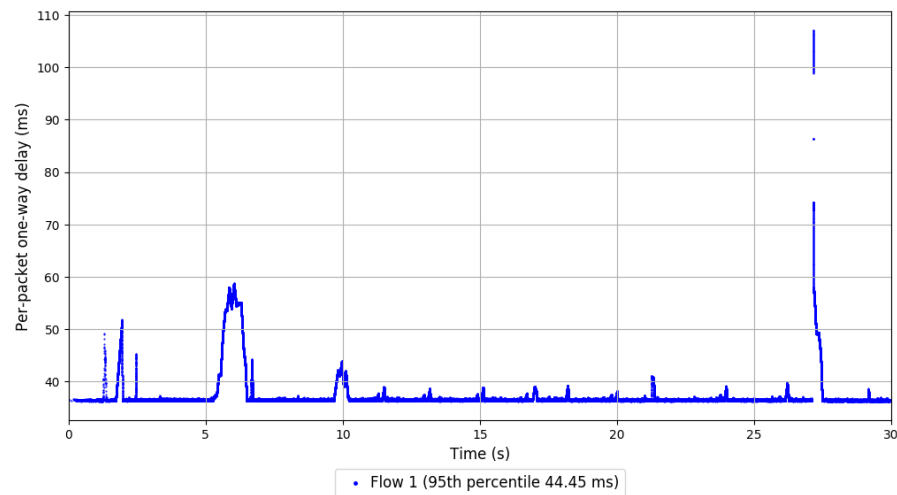
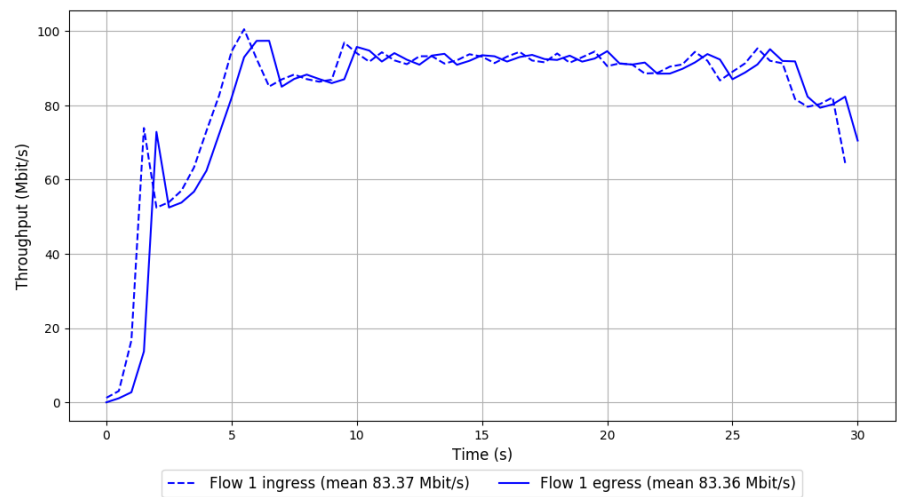
-- Flow 1:

Average throughput: 83.36 Mbit/s

95th percentile per-packet one-way delay: 44.450 ms

Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-29 15:20:39

End at: 2018-06-29 15:21:09

Local clock offset: -0.67 ms

Remote clock offset: 3.868 ms

# Below is generated by plot.py at 2018-06-29 17:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 39.460 ms

Loss rate: 0.00%

-- Flow 1:

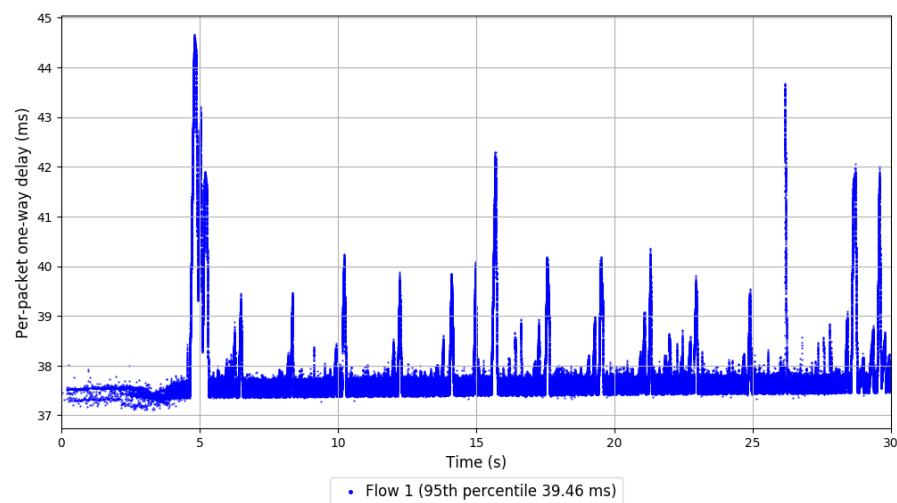
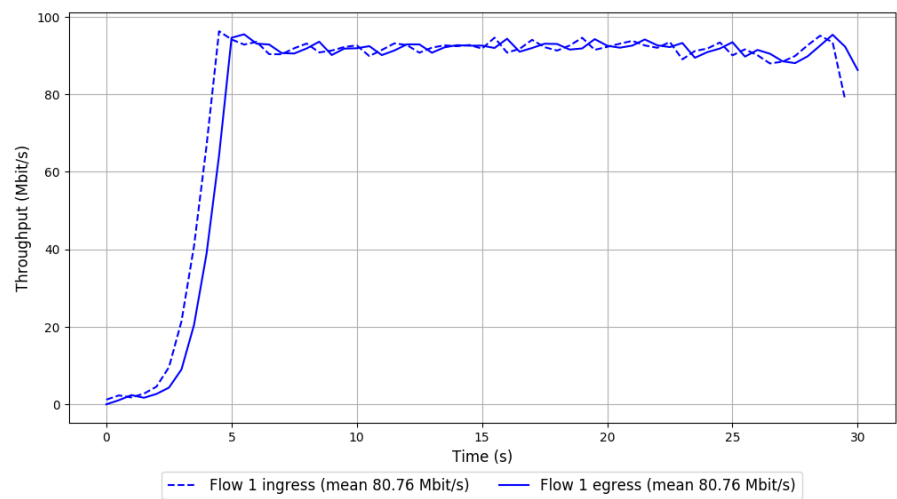
Average throughput: 80.76 Mbit/s

95th percentile per-packet one-way delay: 39.460 ms

Loss rate: 0.00%



Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-29 15:45:33

End at: 2018-06-29 15:46:03

Local clock offset: 2.342 ms

Remote clock offset: 4.203 ms

# Below is generated by plot.py at 2018-06-29 17:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 39.361 ms

Loss rate: 0.20%

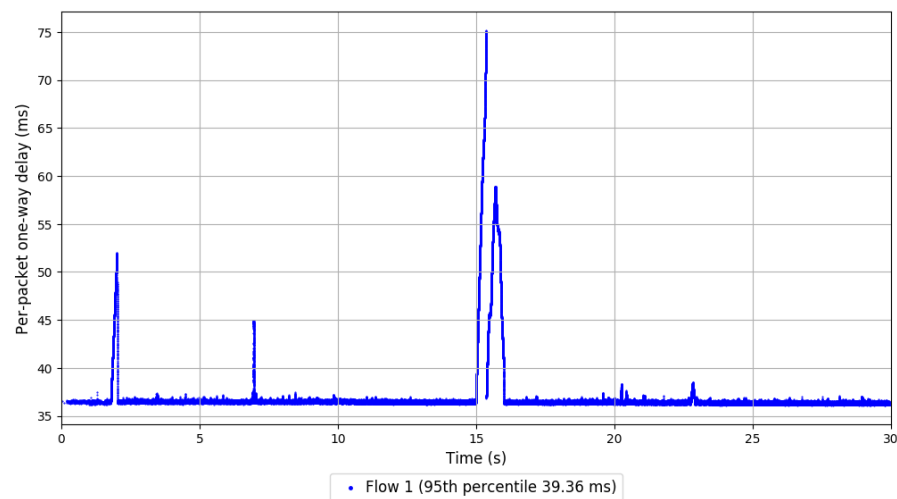
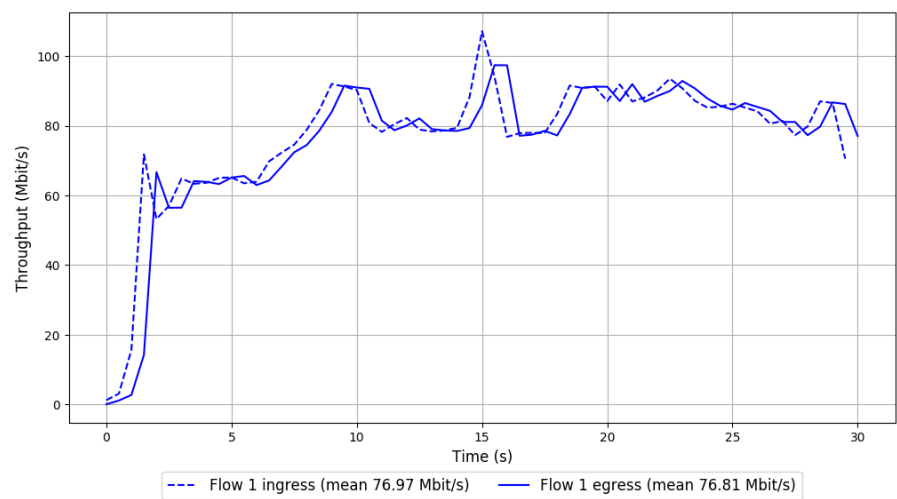
-- Flow 1:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 39.361 ms

Loss rate: 0.20%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-29 16:09:45

End at: 2018-06-29 16:10:15

Local clock offset: -1.741 ms

Remote clock offset: 4.287 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 39.093 ms

Loss rate: 0.00%

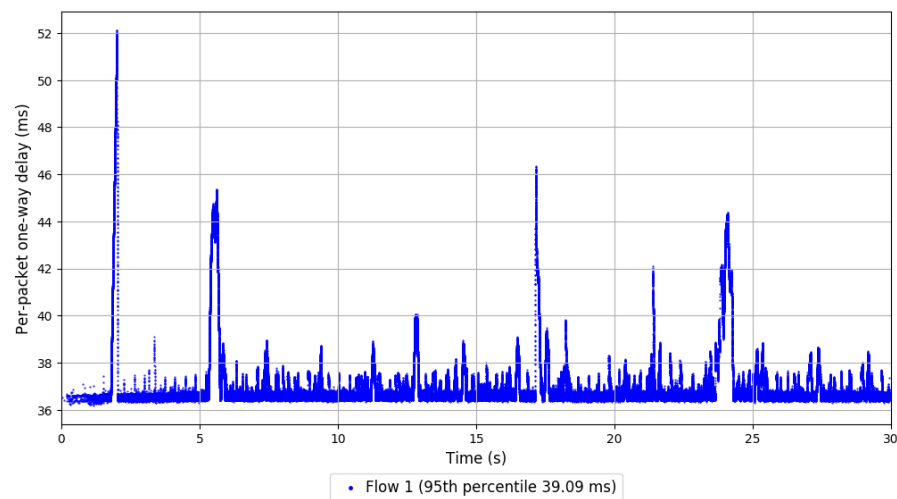
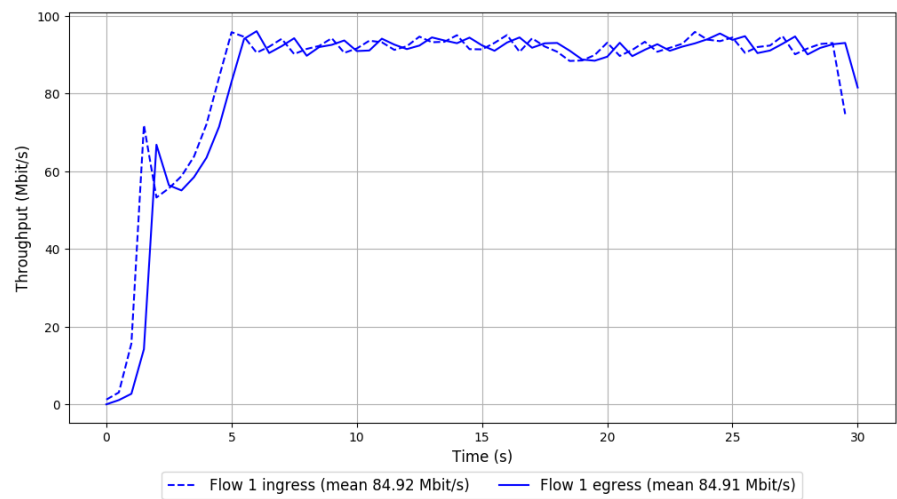
-- Flow 1:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 39.093 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-29 16:33:29

End at: 2018-06-29 16:33:59

Local clock offset: -1.62 ms

Remote clock offset: 4.46 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.84 Mbit/s

95th percentile per-packet one-way delay: 39.088 ms

Loss rate: 0.06%

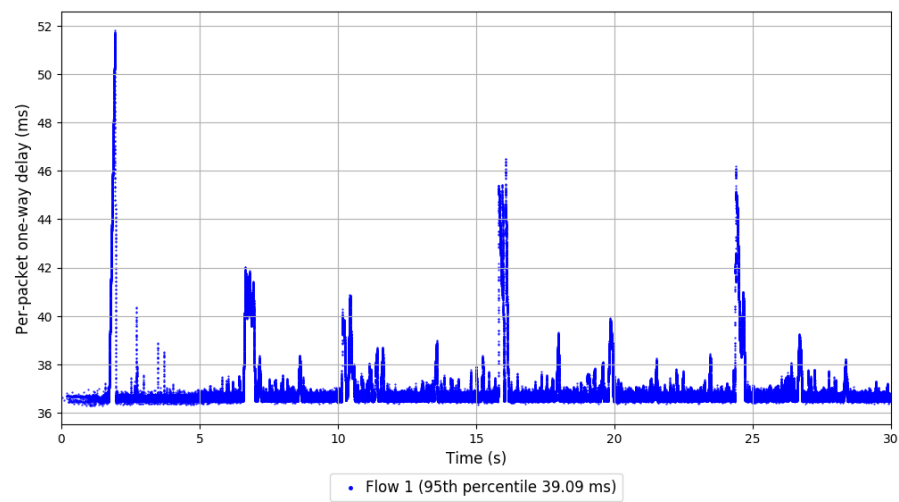
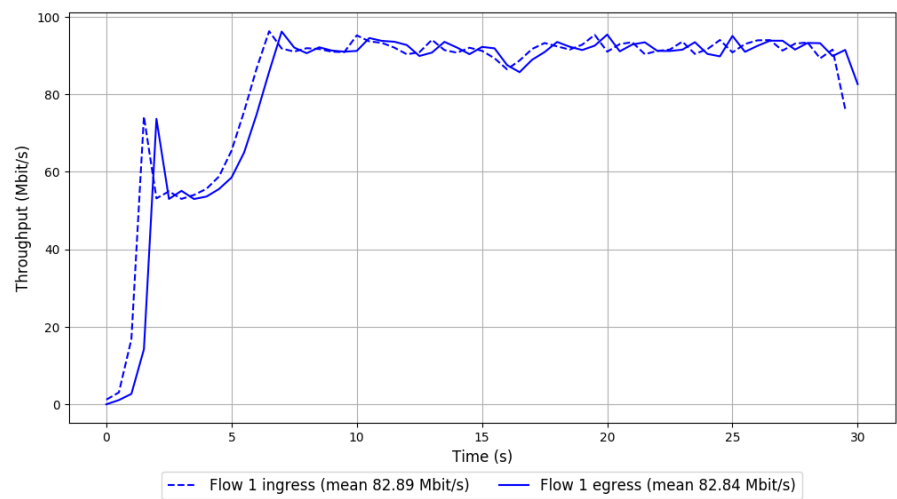
-- Flow 1:

Average throughput: 82.84 Mbit/s

95th percentile per-packet one-way delay: 39.088 ms

Loss rate: 0.06%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-29 12:59:58

End at: 2018-06-29 13:00:28

Local clock offset: -3.873 ms

Remote clock offset: 6.359 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 37.682 ms

Loss rate: 0.00%

-- Flow 1:

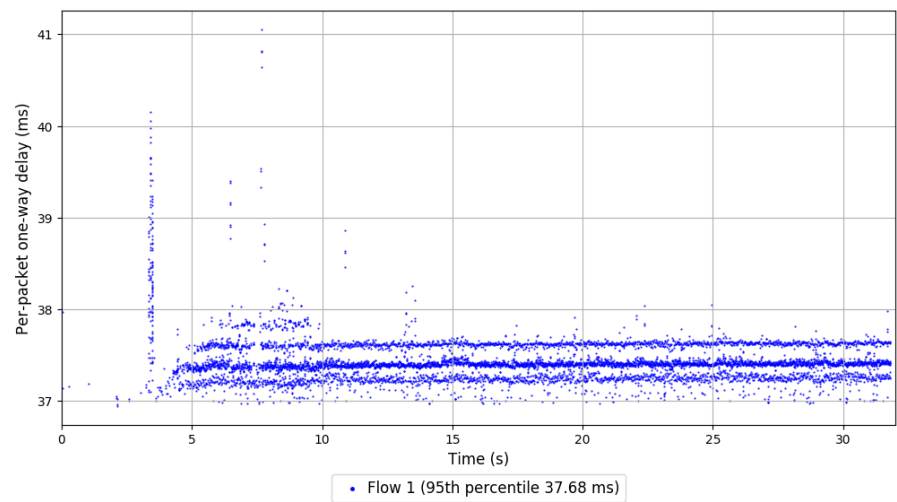
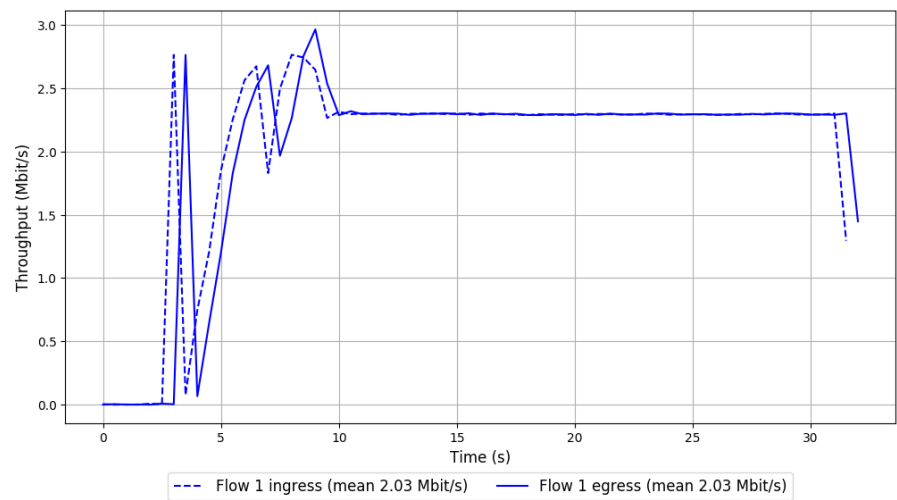
Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 37.682 ms

Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-29 13:23:33

End at: 2018-06-29 13:24:03

Local clock offset: -3.61 ms

Remote clock offset: 3.76 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 37.855 ms

Loss rate: 0.20%

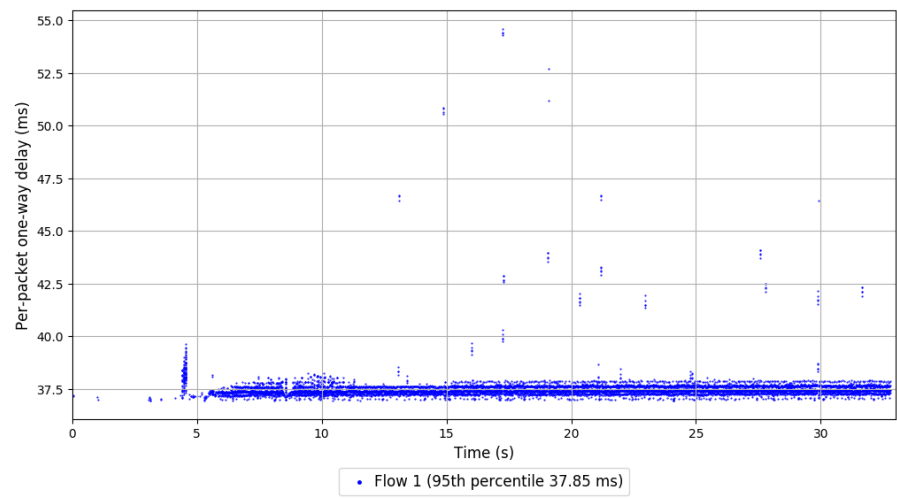
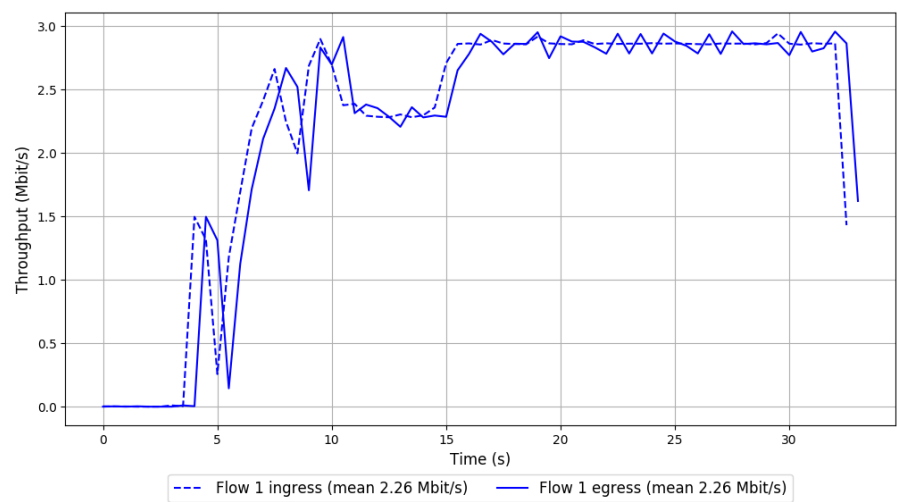
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 37.855 ms

Loss rate: 0.20%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-29 13:46:29

End at: 2018-06-29 13:46:59

Local clock offset: -5.101 ms

Remote clock offset: 2.361 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 37.438 ms

Loss rate: 0.00%

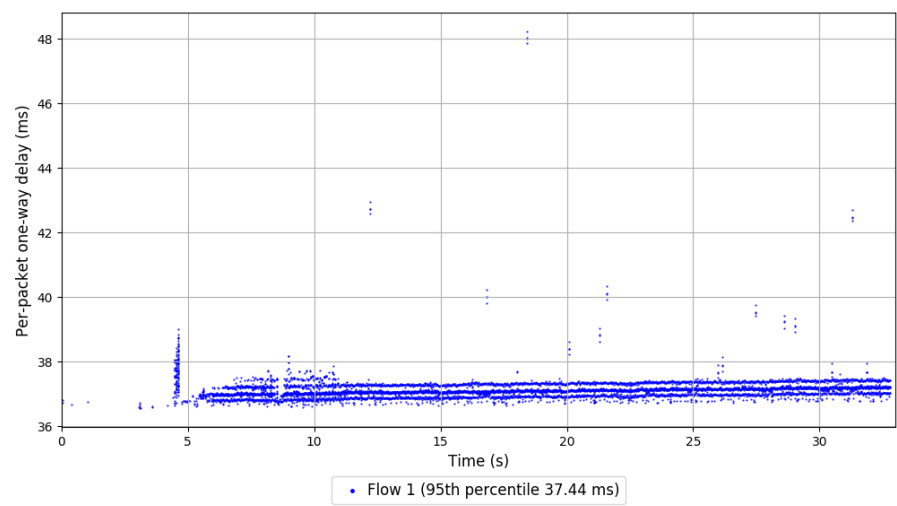
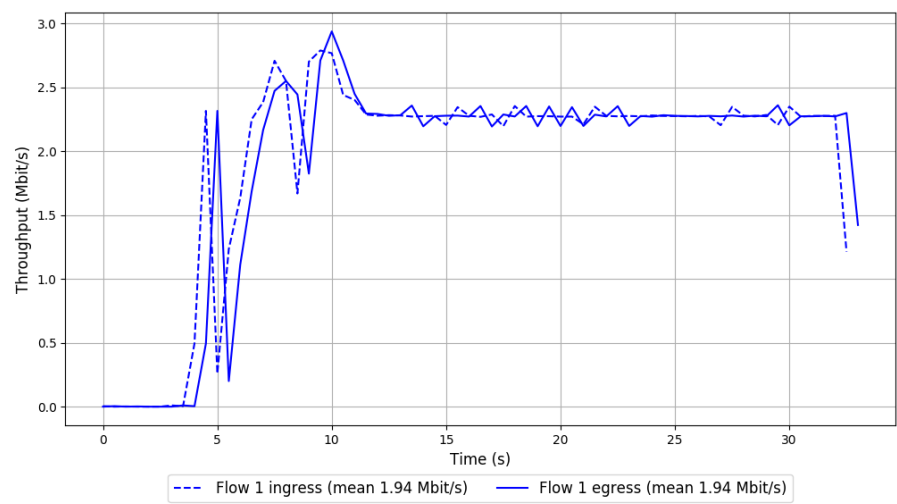
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 37.438 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-29 14:11:03

End at: 2018-06-29 14:11:33

Local clock offset: -0.234 ms

Remote clock offset: 2.135 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 36.467 ms

Loss rate: 0.03%

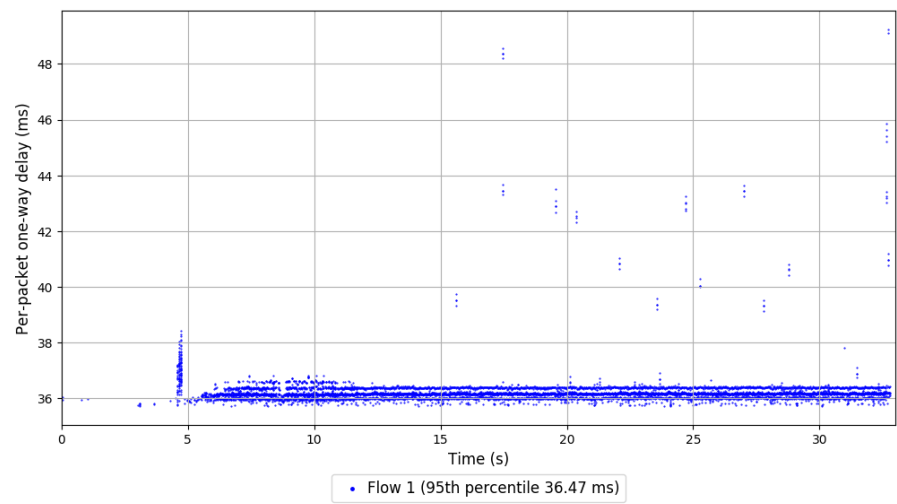
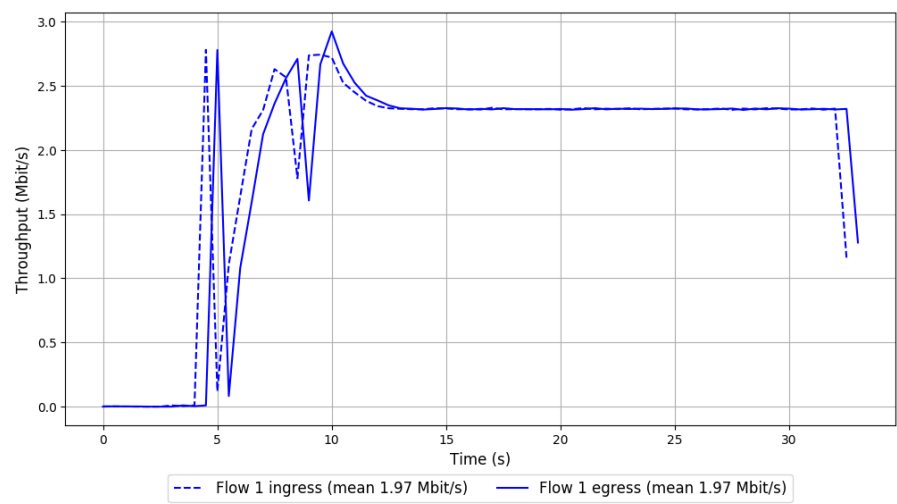
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 36.467 ms

Loss rate: 0.03%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-29 14:35:24

End at: 2018-06-29 14:35:54

Local clock offset: -2.874 ms

Remote clock offset: 0.87 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 37.898 ms

Loss rate: 0.07%

-- Flow 1:

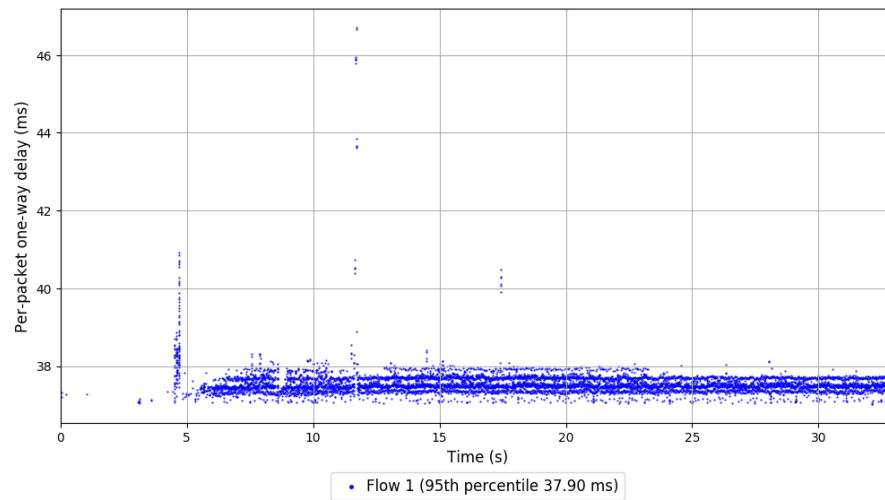
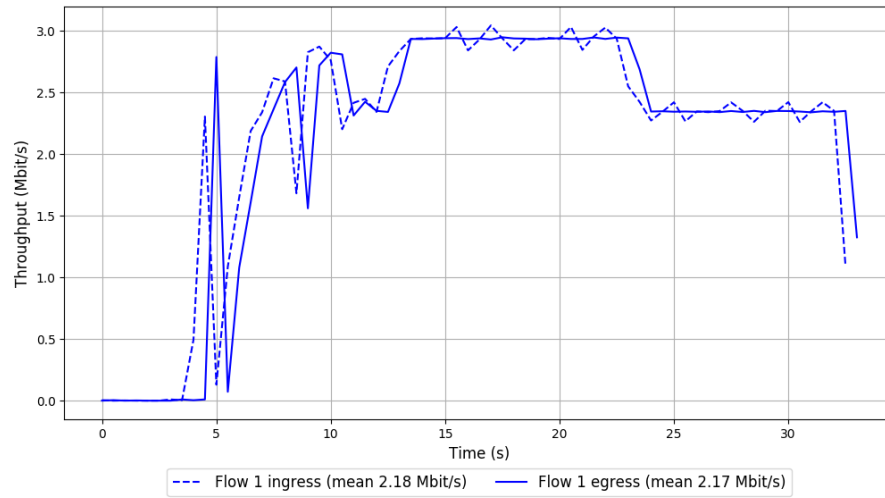
Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 37.898 ms

Loss rate: 0.07%



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



Run 6: Statistics of WebRTC media

Start at: 2018-06-29 14:59:47

End at: 2018-06-29 15:00:17

Local clock offset: -2.326 ms

Remote clock offset: 2.289 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 37.703 ms

Loss rate: 0.11%

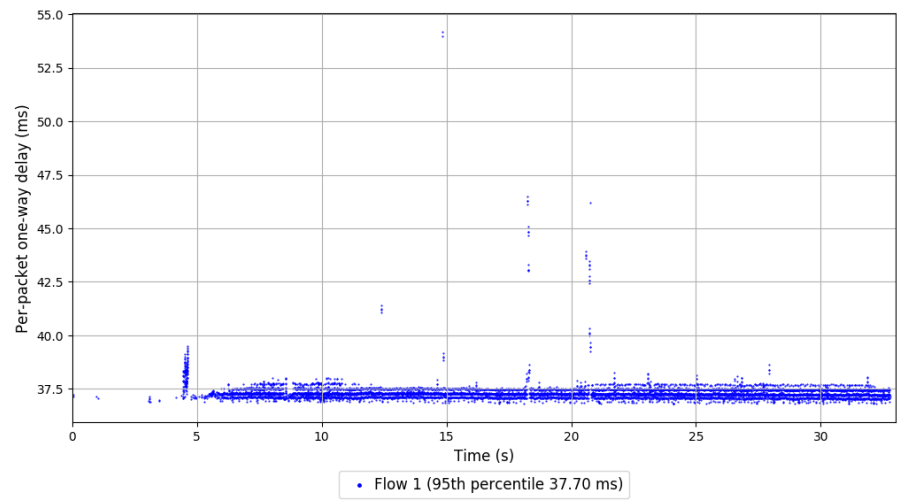
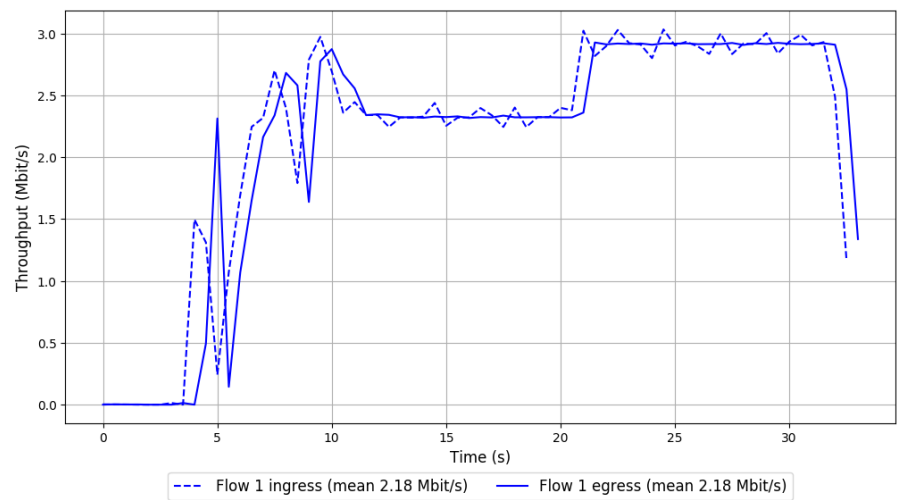
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 37.703 ms

Loss rate: 0.11%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-29 15:23:37

End at: 2018-06-29 15:24:07

Local clock offset: 0.056 ms

Remote clock offset: 3.972 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 37.896 ms

Loss rate: 0.00%

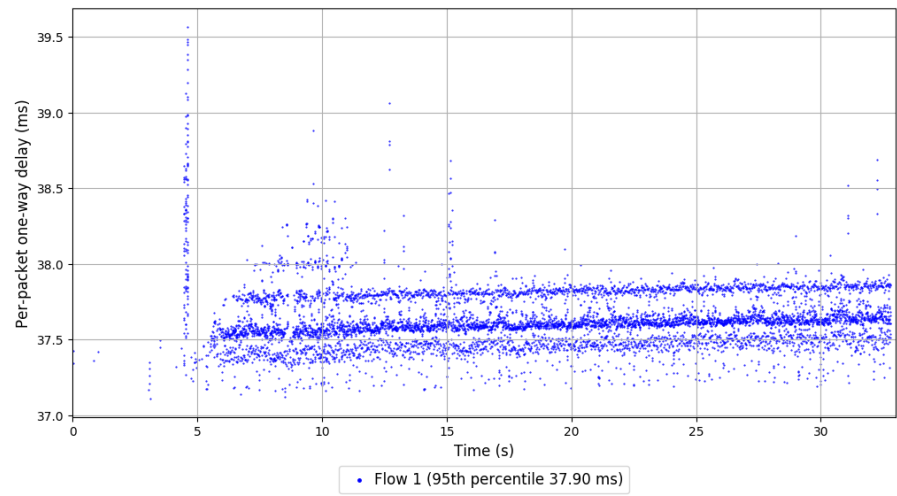
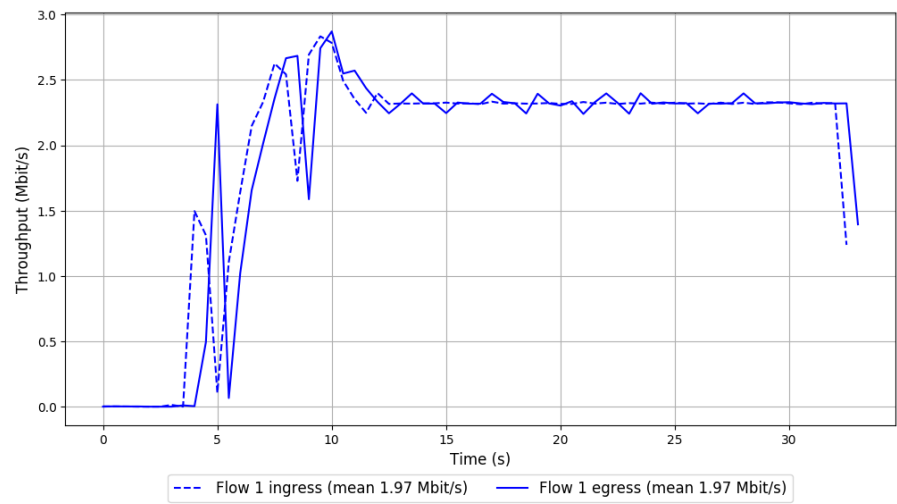
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 37.896 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-29 15:48:43

End at: 2018-06-29 15:49:13

Local clock offset: 1.21 ms

Remote clock offset: 4.247 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 36.736 ms

Loss rate: 0.00%

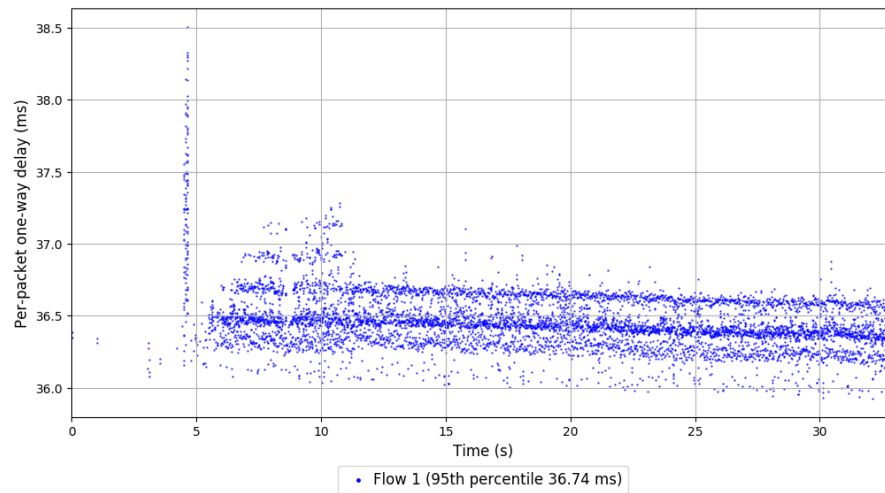
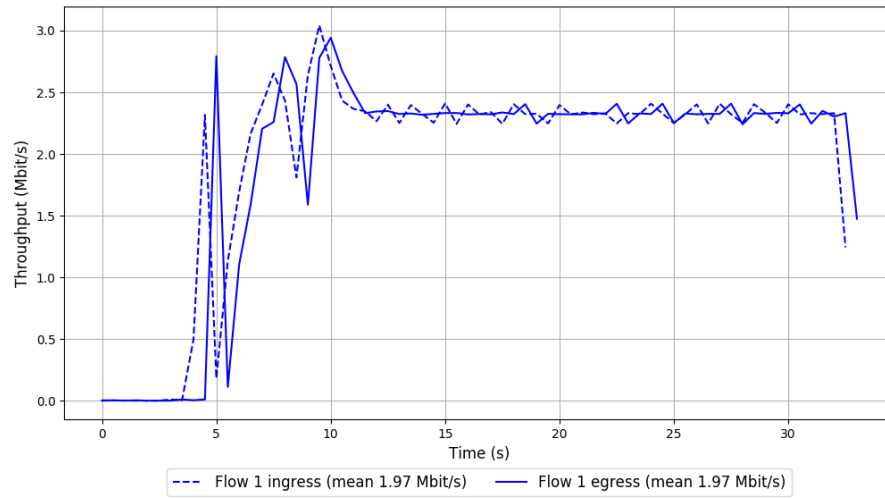
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 36.736 ms

Loss rate: 0.00%

# Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-29 16:12:36

End at: 2018-06-29 16:13:06

Local clock offset: -1.88 ms

Remote clock offset: 4.255 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 37.529 ms

Loss rate: 0.00%

-- Flow 1:

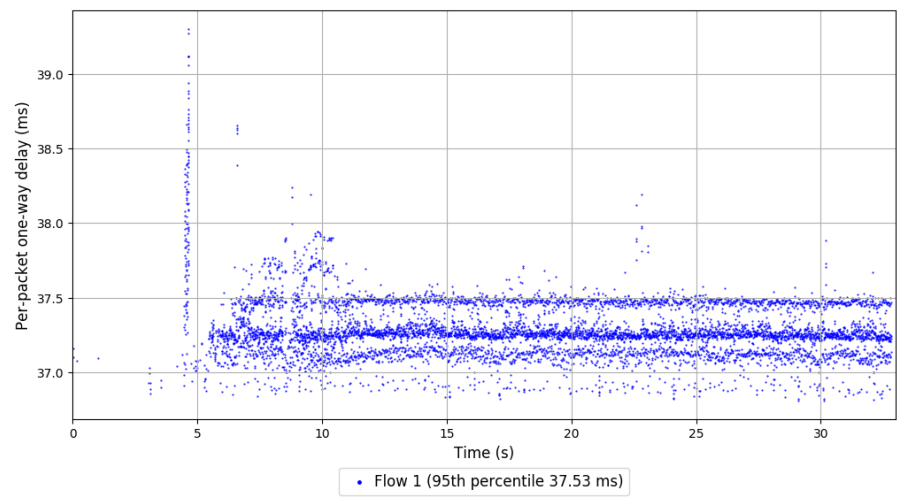
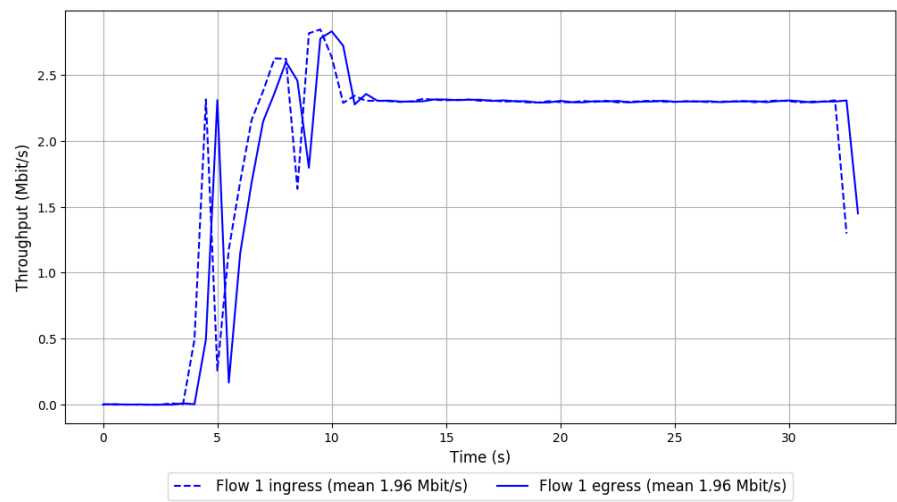
Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 37.529 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-29 16:36:12

End at: 2018-06-29 16:36:42

Local clock offset: -1.725 ms

Remote clock offset: 4.938 ms

# Below is generated by plot.py at 2018-06-29 17:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 36.873 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 36.873 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

