

## Pantheon Report

Generated at 2018-06-19 05:34:30 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

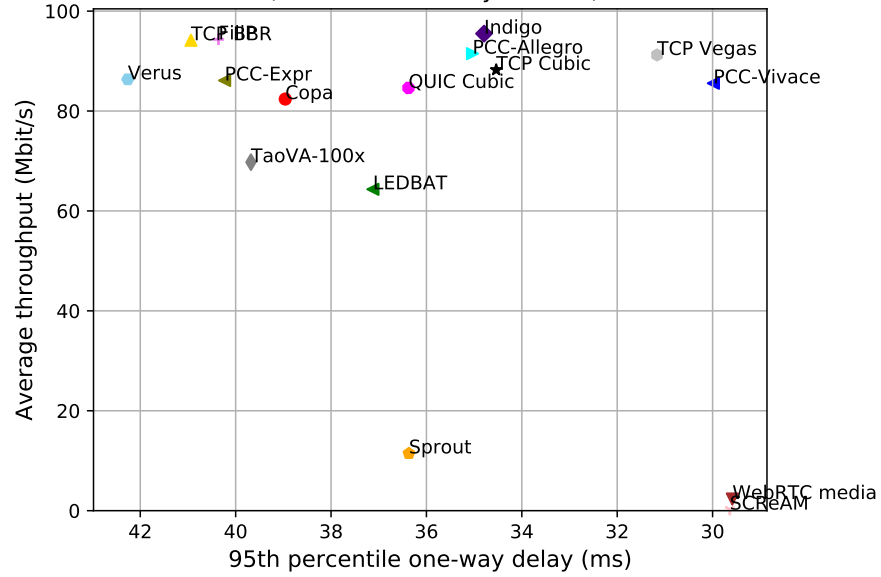
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

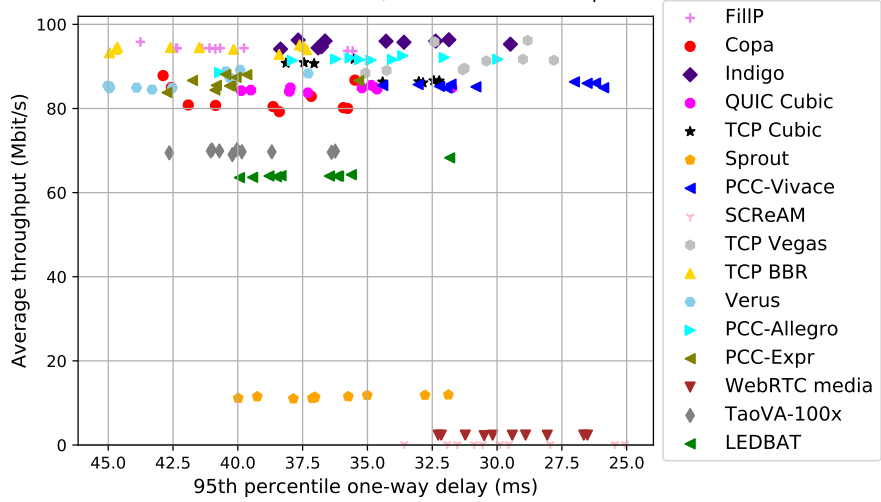
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
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-quirk @ 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 Mexico to AWS California 2, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from Mexico to AWS California 2, 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	94.17	40.94	1.20
Copa	10	82.39	38.96	0.21
TCP Cubic	10	88.24	34.54	0.20
FillP	10	94.34	40.36	0.23
Indigo	10	95.49	34.79	0.21
LEDBAT	10	64.33	37.12	0.24
PCC-Allegro	10	91.48	35.03	0.22
PCC-Expr	10	86.12	40.23	0.26
QUIC Cubic	10	84.62	36.38	0.24
SCReAM	10	0.22	29.64	0.21
Sprout	10	11.46	36.37	0.23
TaoVA-100x	10	69.76	39.68	0.17
TCP Vegas	10	91.22	31.16	0.21
Verus	10	86.35	42.26	0.40
PCC-Vivace	10	85.55	29.98	0.21
WebRTC media	10	2.33	29.59	0.21

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 01:50:54

End at: 2018-06-19 01:51:24

Local clock offset: -2.605 ms

Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2018-06-19 05:14:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 37.347 ms

Loss rate: 1.29%

-- Flow 1:

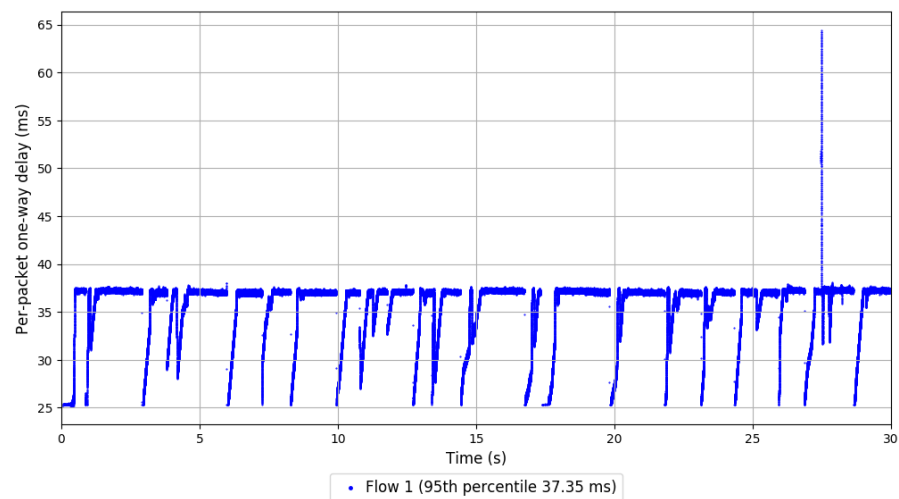
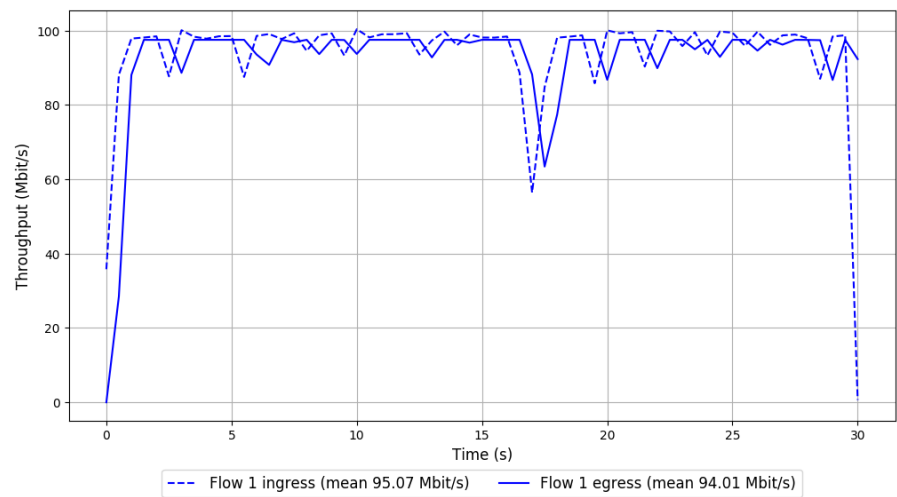
Average throughput: 94.01 Mbit/s

95th percentile per-packet one-way delay: 37.347 ms

Loss rate: 1.29%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-19 02:11:50

End at: 2018-06-19 02:12:20

Local clock offset: -3.98 ms

Remote clock offset: 1.155 ms

# Below is generated by plot.py at 2018-06-19 05:14:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 37.448 ms

Loss rate: 1.07%

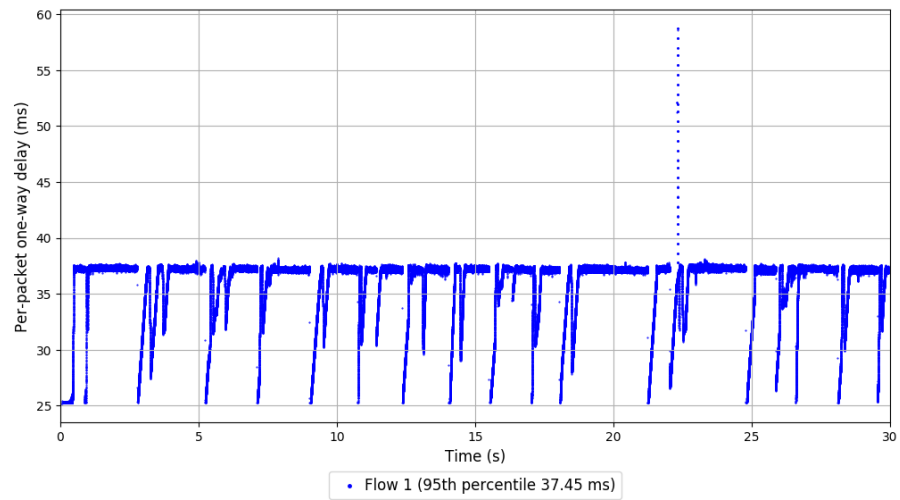
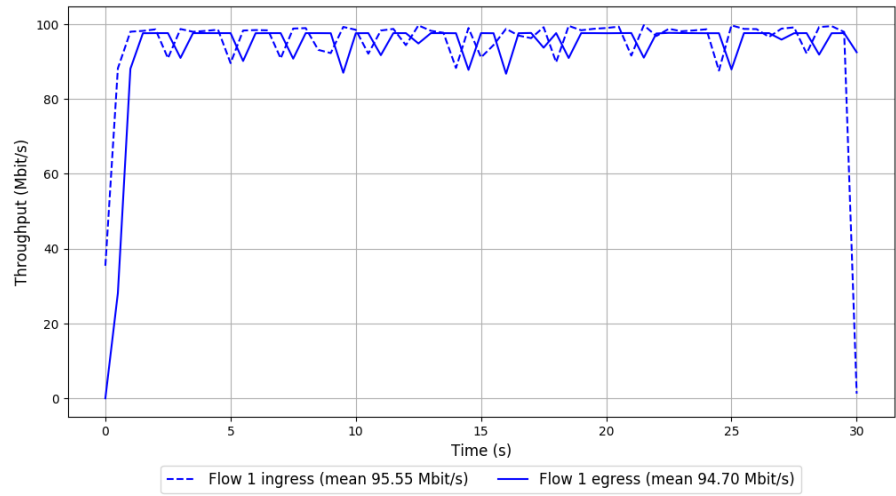
-- Flow 1:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 37.448 ms

Loss rate: 1.07%

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

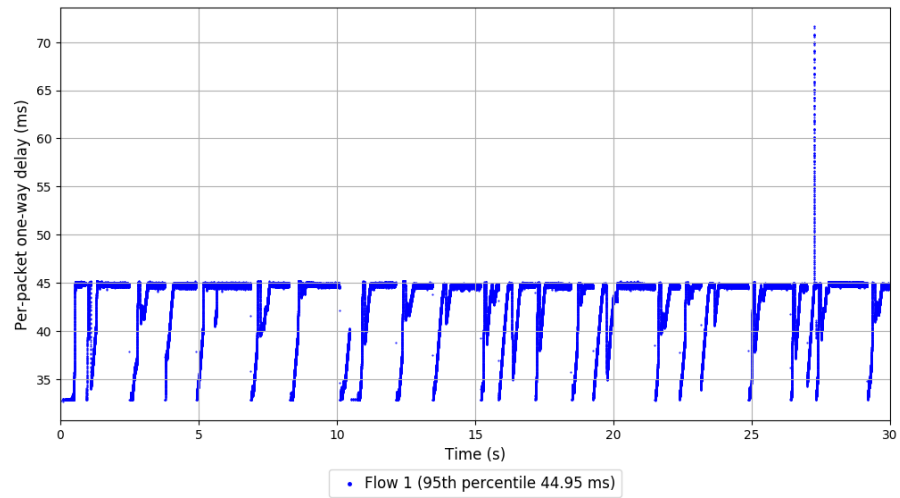
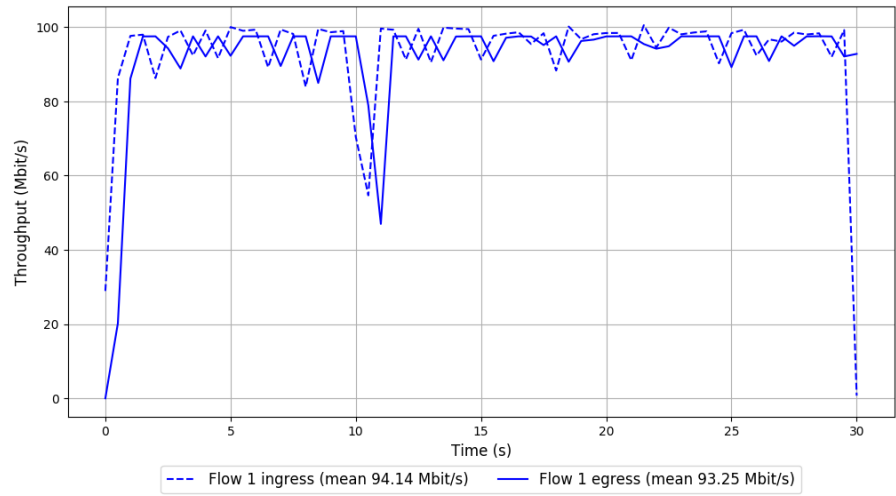


Run 3: Statistics of TCP BBR

Start at: 2018-06-19 02:32:45  
End at: 2018-06-19 02:33:15  
Local clock offset: -4.883 ms  
Remote clock offset: -0.583 ms

# Below is generated by plot.py at 2018-06-19 05:14:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.25 Mbit/s  
95th percentile per-packet one-way delay: 44.952 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 93.25 Mbit/s  
95th percentile per-packet one-way delay: 44.952 ms  
Loss rate: 1.15%

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



Run 4: Statistics of TCP BBR

Start at: 2018-06-19 02:53:40

End at: 2018-06-19 02:54:10

Local clock offset: 0.822 ms

Remote clock offset: 0.88 ms

# Below is generated by plot.py at 2018-06-19 05:14:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 38.406 ms

Loss rate: 1.22%

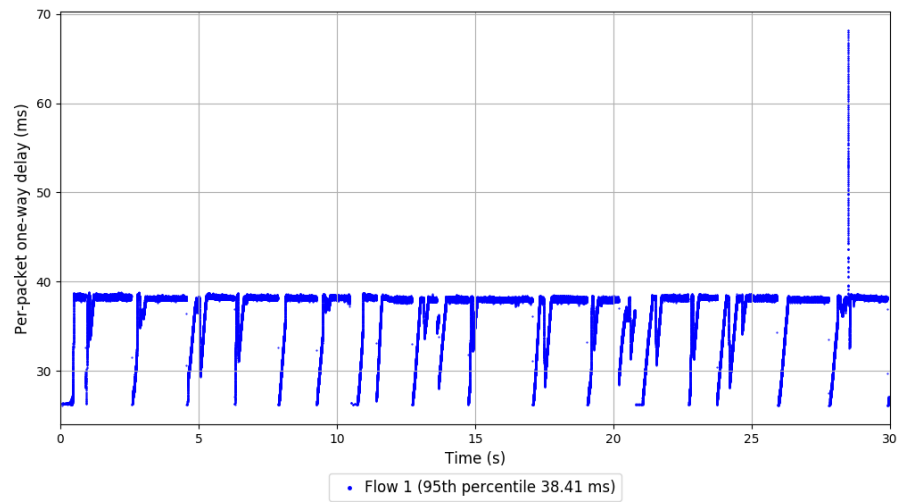
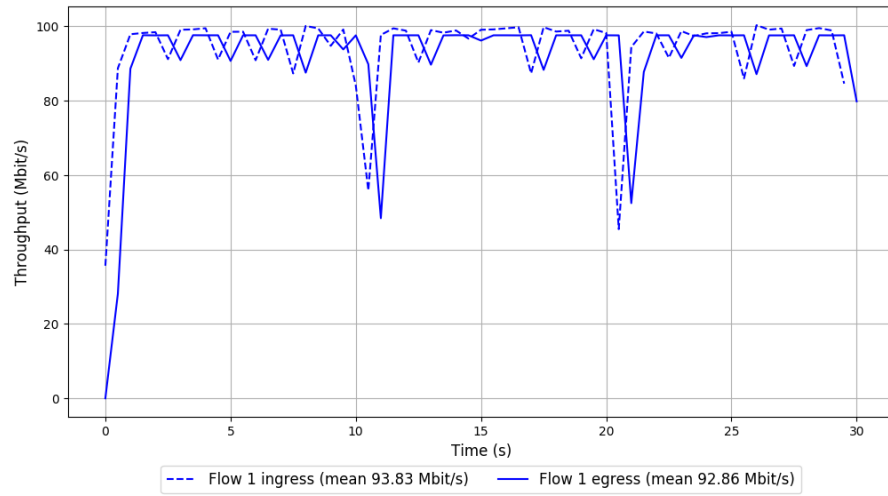
-- Flow 1:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 38.406 ms

Loss rate: 1.22%

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



Run 5: Statistics of TCP BBR

Start at: 2018-06-19 03:14:34

End at: 2018-06-19 03:15:04

Local clock offset: 1.147 ms

Remote clock offset: -2.149 ms

# Below is generated by plot.py at 2018-06-19 05:14:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 44.642 ms

Loss rate: 1.22%

-- Flow 1:

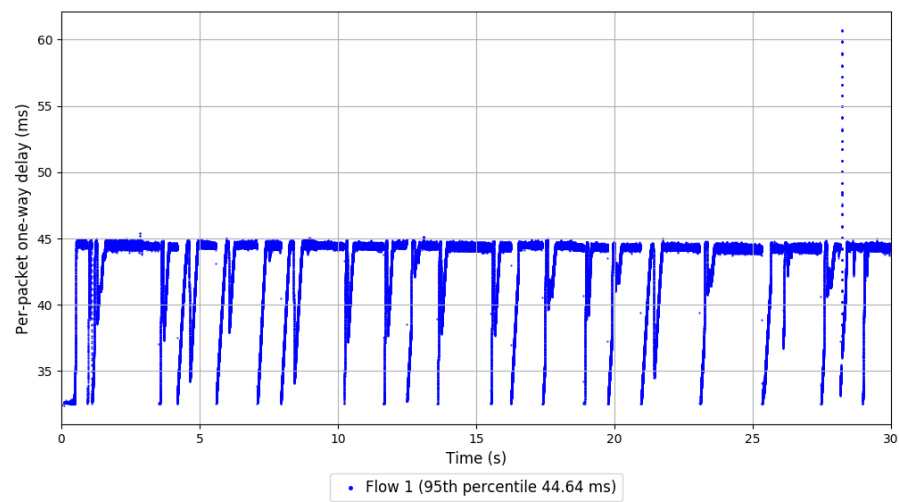
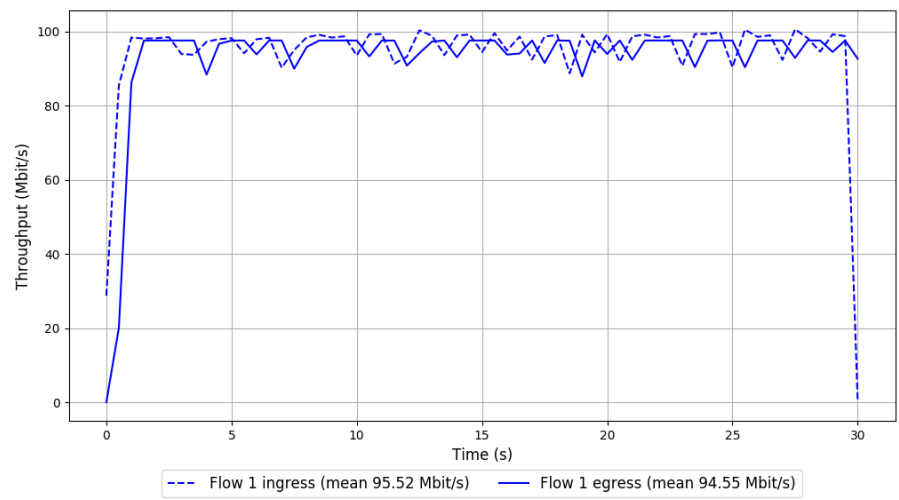
Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 44.642 ms

Loss rate: 1.22%



Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-19 03:35:28

End at: 2018-06-19 03:35:58

Local clock offset: 0.977 ms

Remote clock offset: -2.444 ms

# Below is generated by plot.py at 2018-06-19 05:14:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 40.161 ms

Loss rate: 1.15%

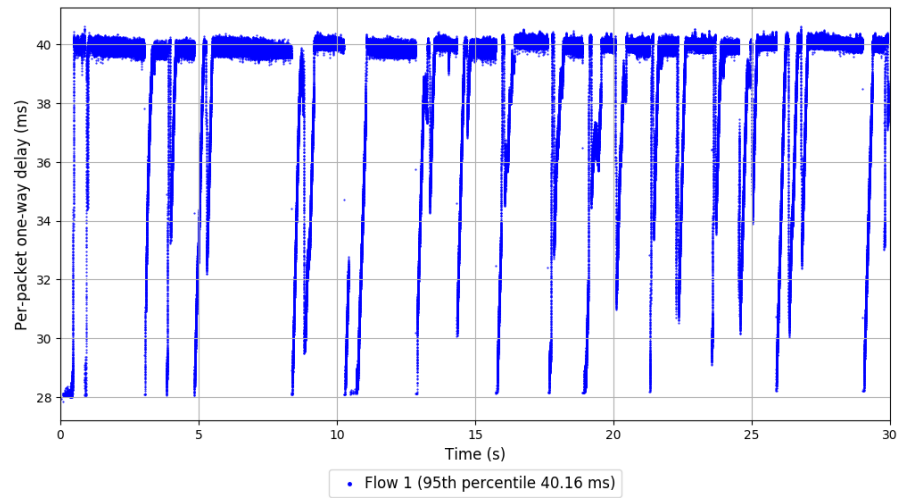
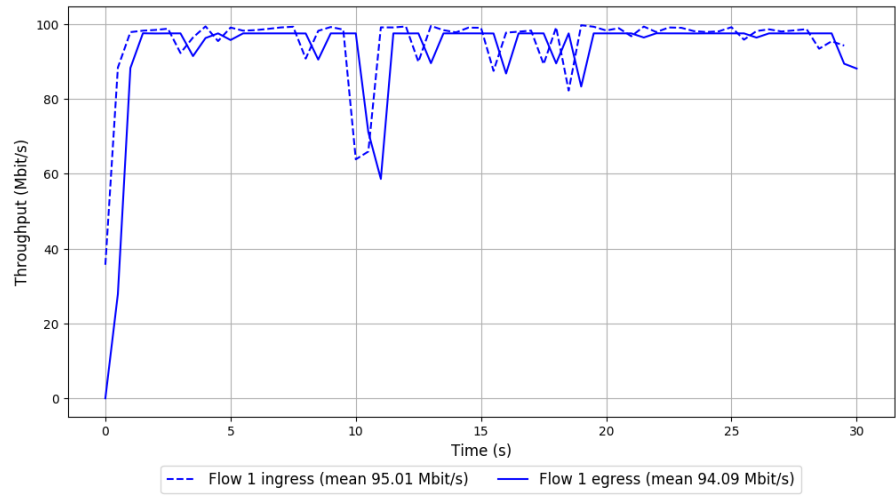
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 40.161 ms

Loss rate: 1.15%

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

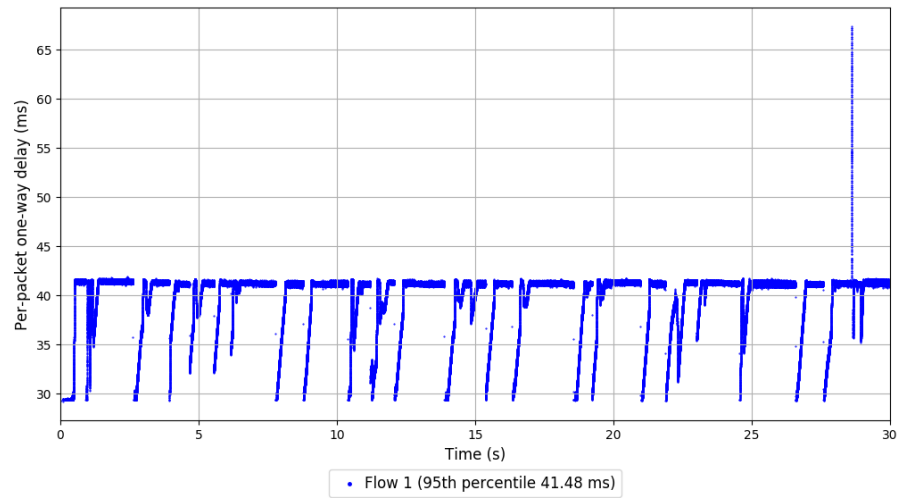
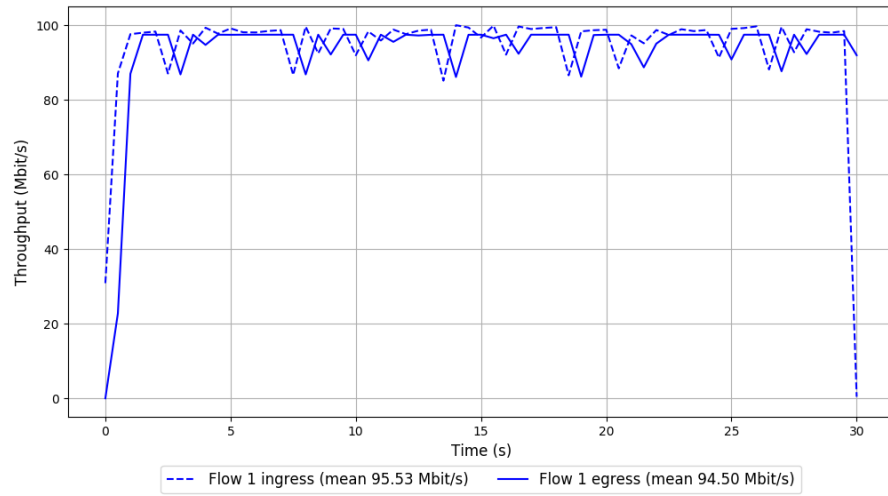


Run 7: Statistics of TCP BBR

Start at: 2018-06-19 03:56:21  
End at: 2018-06-19 03:56:52  
Local clock offset: -2.603 ms  
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2018-06-19 05:14:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.50 Mbit/s  
95th percentile per-packet one-way delay: 41.485 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 94.50 Mbit/s  
95th percentile per-packet one-way delay: 41.485 ms  
Loss rate: 1.29%

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

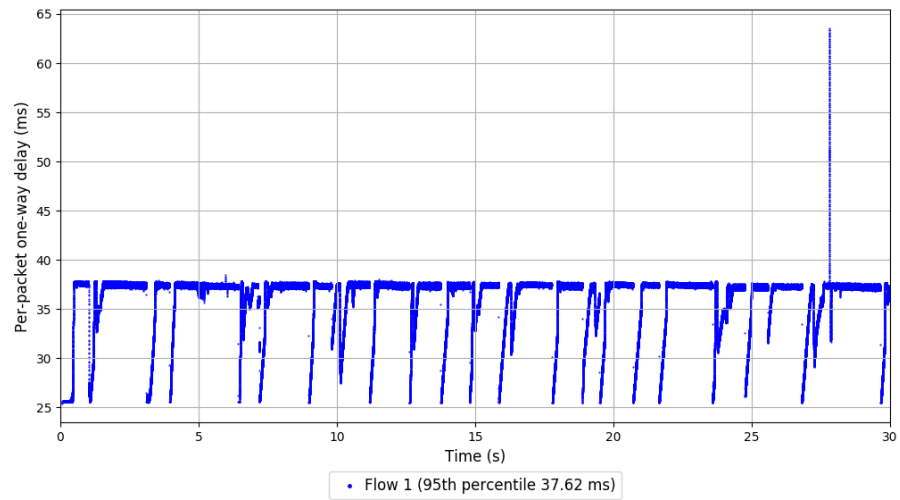
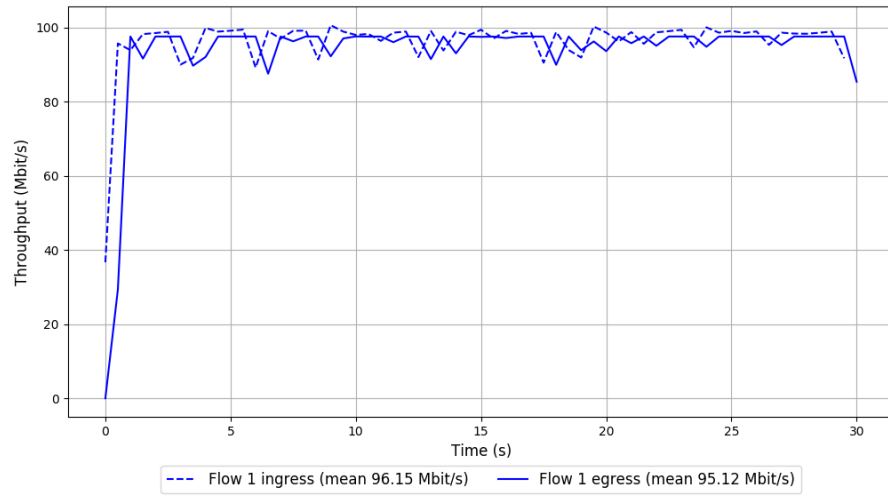


Run 8: Statistics of TCP BBR

Start at: 2018-06-19 04:17:15  
End at: 2018-06-19 04:17:45  
Local clock offset: -0.477 ms  
Remote clock offset: -1.608 ms

# Below is generated by plot.py at 2018-06-19 05:14:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.12 Mbit/s  
95th percentile per-packet one-way delay: 37.617 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 95.12 Mbit/s  
95th percentile per-packet one-way delay: 37.617 ms  
Loss rate: 1.25%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-19 04:38:26

End at: 2018-06-19 04:38:56

Local clock offset: 0.56 ms

Remote clock offset: -1.032 ms

# Below is generated by plot.py at 2018-06-19 05:15:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 42.597 ms

Loss rate: 1.13%

-- Flow 1:

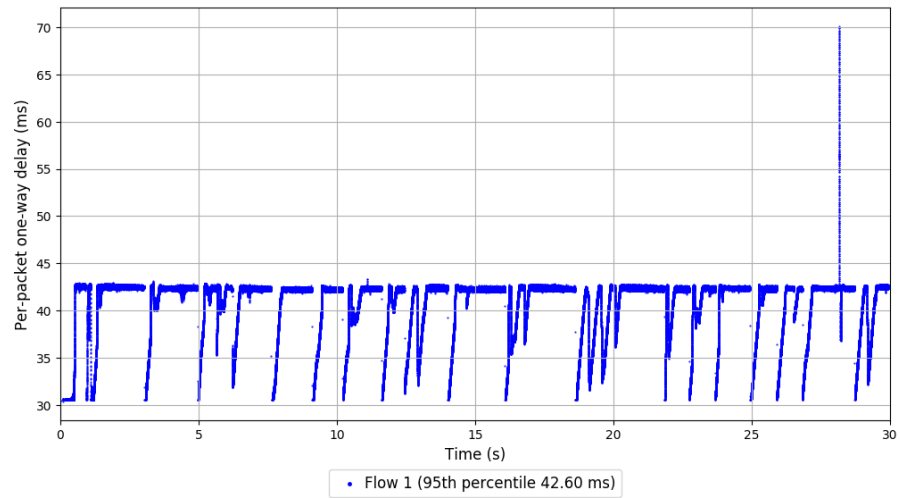
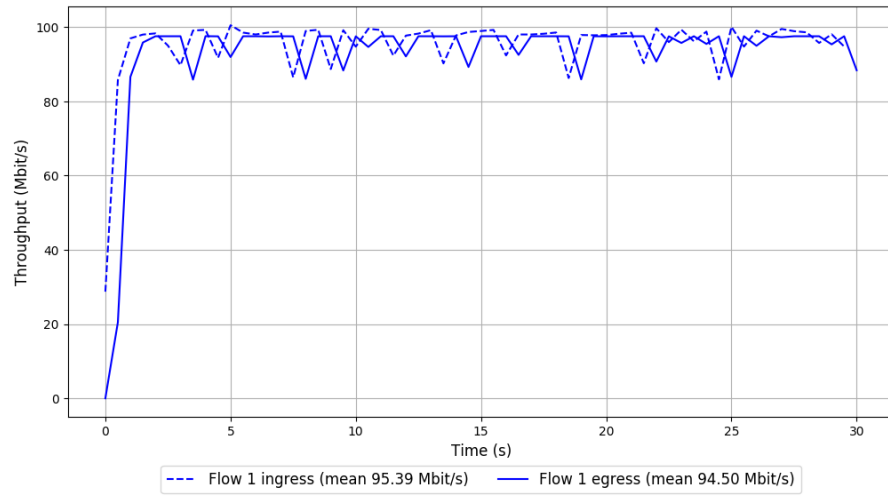
Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 42.597 ms

Loss rate: 1.13%



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



Run 10: Statistics of TCP BBR

Start at: 2018-06-19 04:59:22

End at: 2018-06-19 04:59:52

Local clock offset: 0.91 ms

Remote clock offset: -2.682 ms

# Below is generated by plot.py at 2018-06-19 05:15:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 44.714 ms

Loss rate: 1.23%

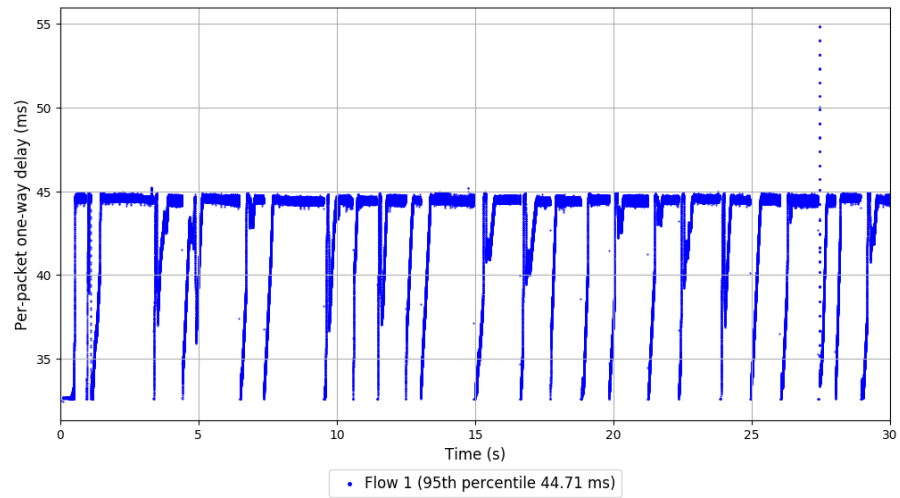
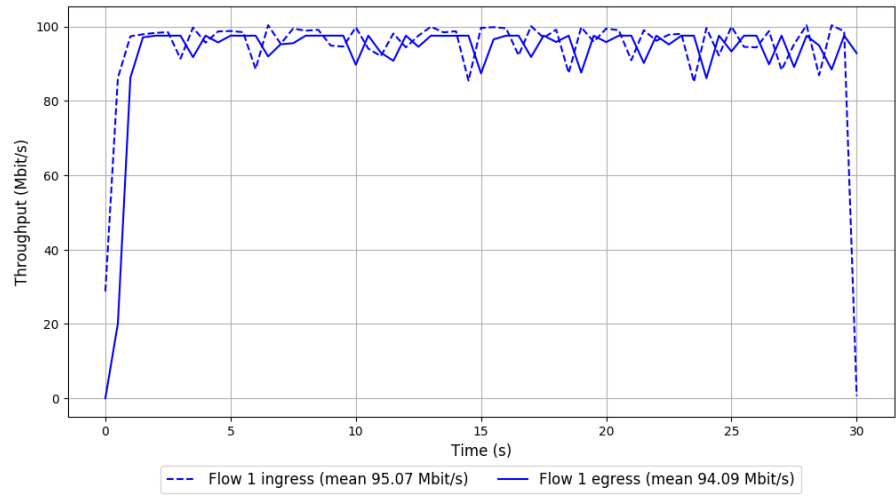
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 44.714 ms

Loss rate: 1.23%

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

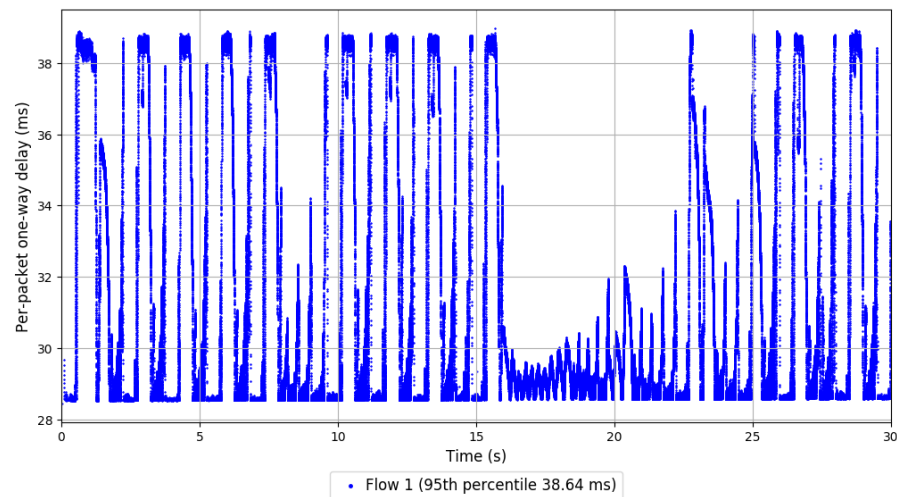
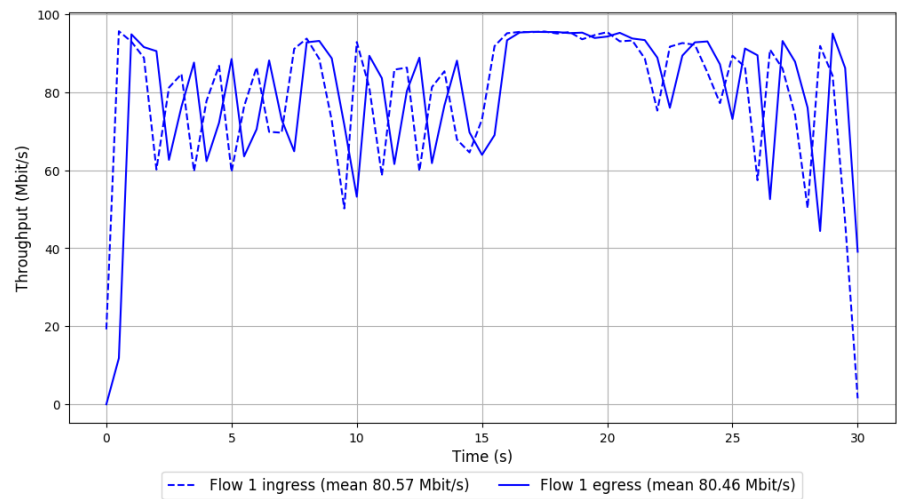


Run 1: Statistics of Copa

Start at: 2018-06-19 01:52:14  
End at: 2018-06-19 01:52:44  
Local clock offset: -2.708 ms  
Remote clock offset: -2.092 ms

# Below is generated by plot.py at 2018-06-19 05:16:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.46 Mbit/s  
95th percentile per-packet one-way delay: 38.640 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 80.46 Mbit/s  
95th percentile per-packet one-way delay: 38.640 ms  
Loss rate: 0.32%

Run 1: Report of Copa — Data Link

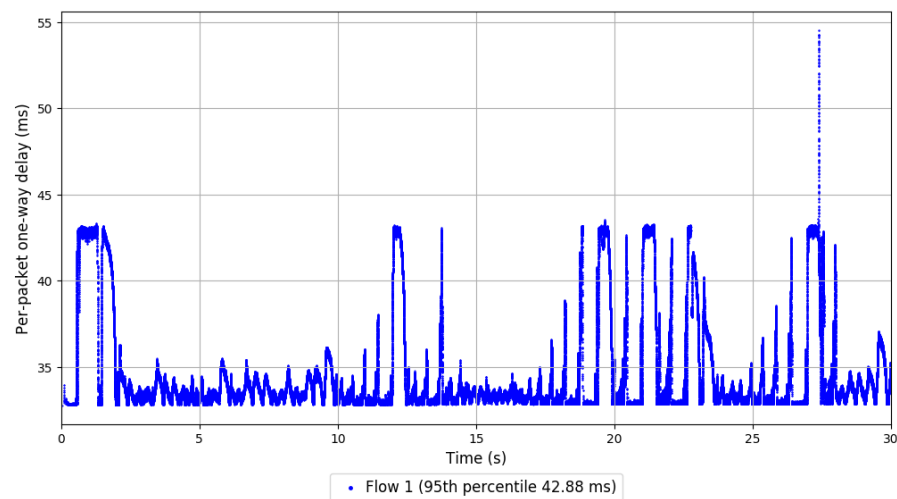
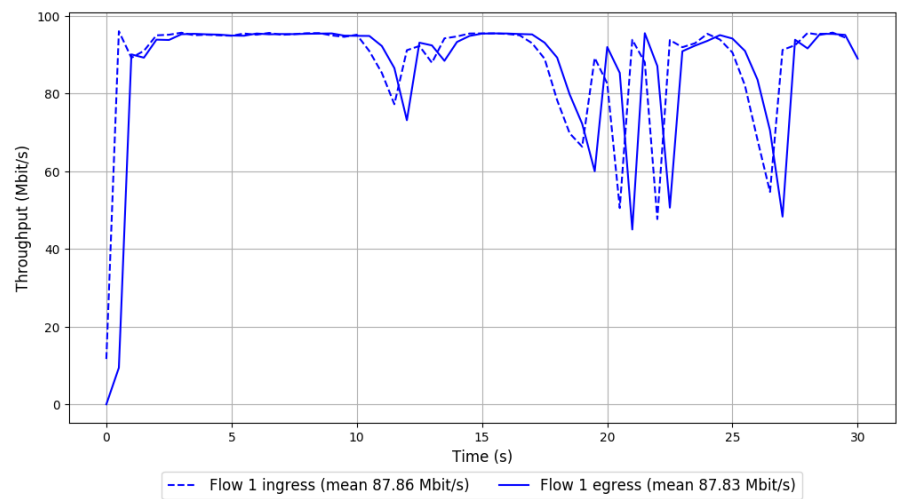


Run 2: Statistics of Copa

Start at: 2018-06-19 02:13:10  
End at: 2018-06-19 02:13:40  
Local clock offset: -4.022 ms  
Remote clock offset: -1.337 ms

# Below is generated by plot.py at 2018-06-19 05:16:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.83 Mbit/s  
95th percentile per-packet one-way delay: 42.883 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 87.83 Mbit/s  
95th percentile per-packet one-way delay: 42.883 ms  
Loss rate: 0.24%

Run 2: Report of Copa — Data Link



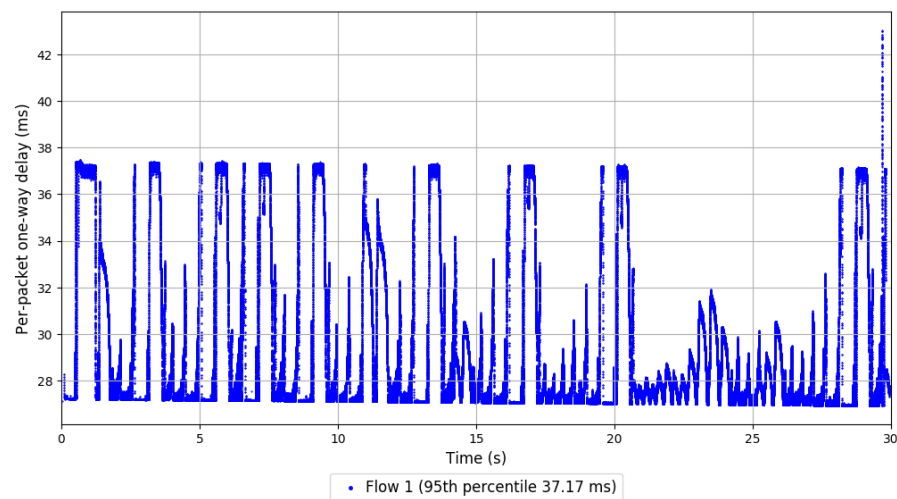
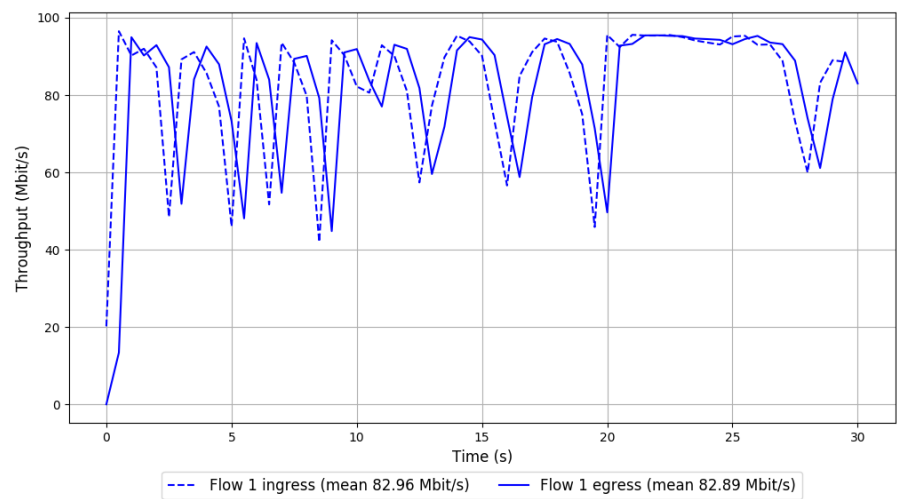
Run 3: Statistics of Copa

Start at: 2018-06-19 02:34:04  
End at: 2018-06-19 02:34:34  
Local clock offset: -5.073 ms  
Remote clock offset: -0.389 ms

# Below is generated by plot.py at 2018-06-19 05:16:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.89 Mbit/s  
95th percentile per-packet one-way delay: 37.168 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 82.89 Mbit/s  
95th percentile per-packet one-way delay: 37.168 ms  
Loss rate: 0.27%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-19 02:55:00

End at: 2018-06-19 02:55:30

Local clock offset: 0.865 ms

Remote clock offset: 0.775 ms

# Below is generated by plot.py at 2018-06-19 05:16:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 35.482 ms

Loss rate: 0.21%

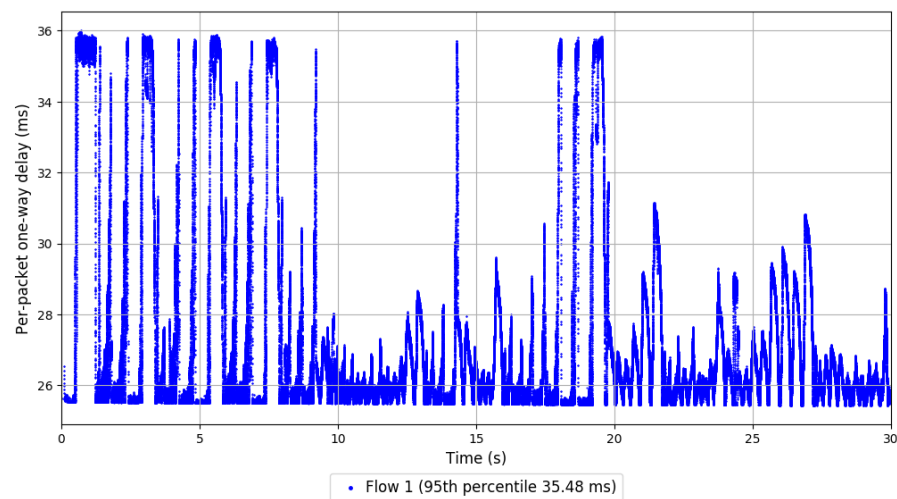
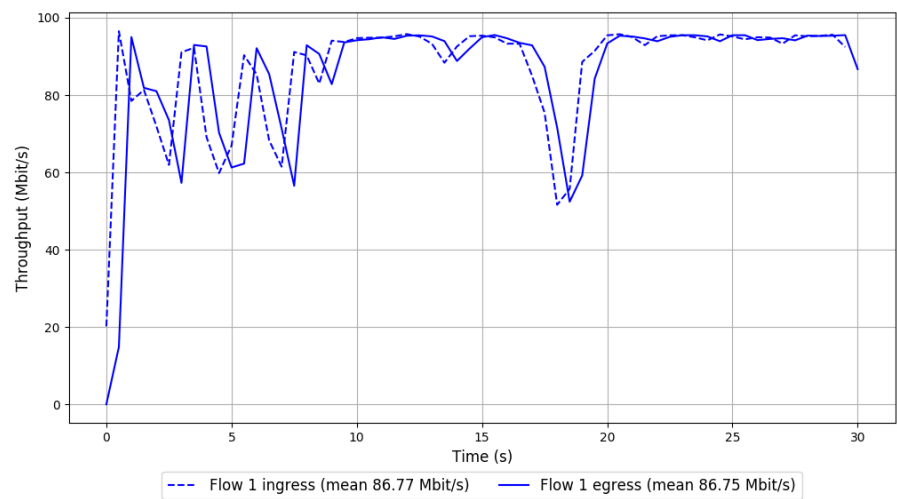
-- Flow 1:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 35.482 ms

Loss rate: 0.21%

Run 4: Report of Copa — Data Link

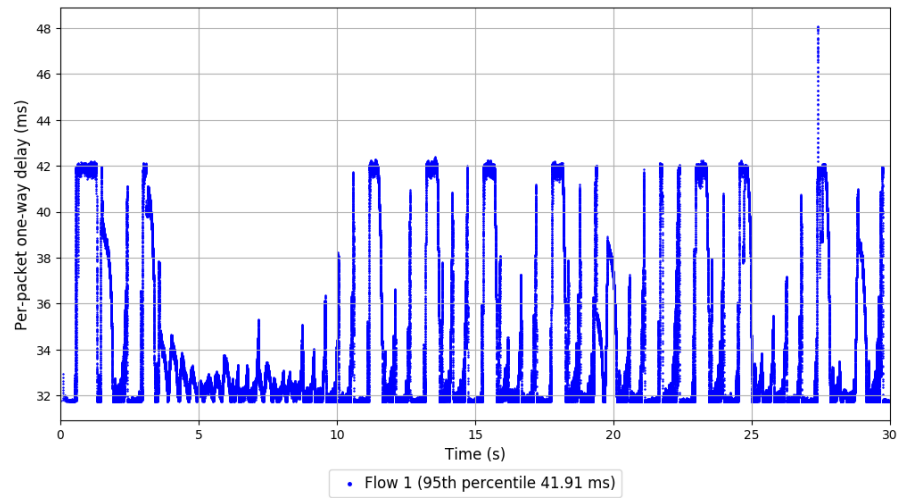
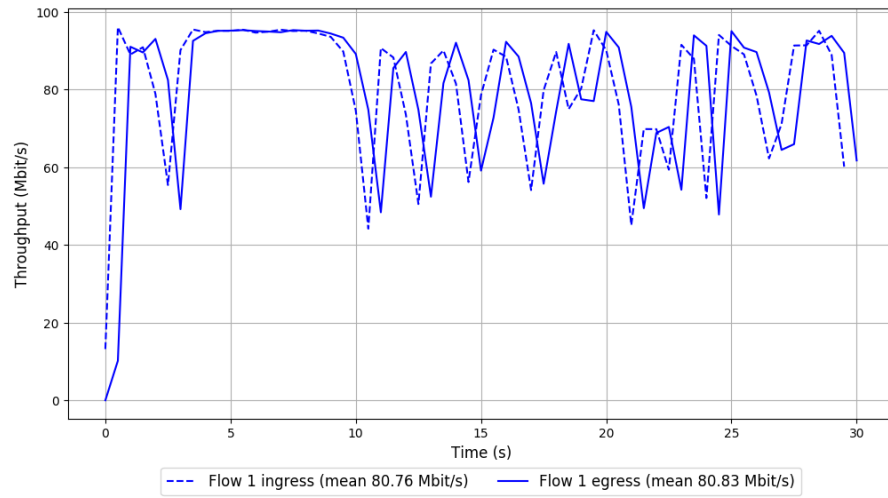


Run 5: Statistics of Copa

Start at: 2018-06-19 03:15:54  
End at: 2018-06-19 03:16:24  
Local clock offset: 1.239 ms  
Remote clock offset: -2.026 ms

# Below is generated by plot.py at 2018-06-19 05:16:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.83 Mbit/s  
95th percentile per-packet one-way delay: 41.911 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 80.83 Mbit/s  
95th percentile per-packet one-way delay: 41.911 ms  
Loss rate: 0.11%

### Run 5: Report of Copa — Data Link

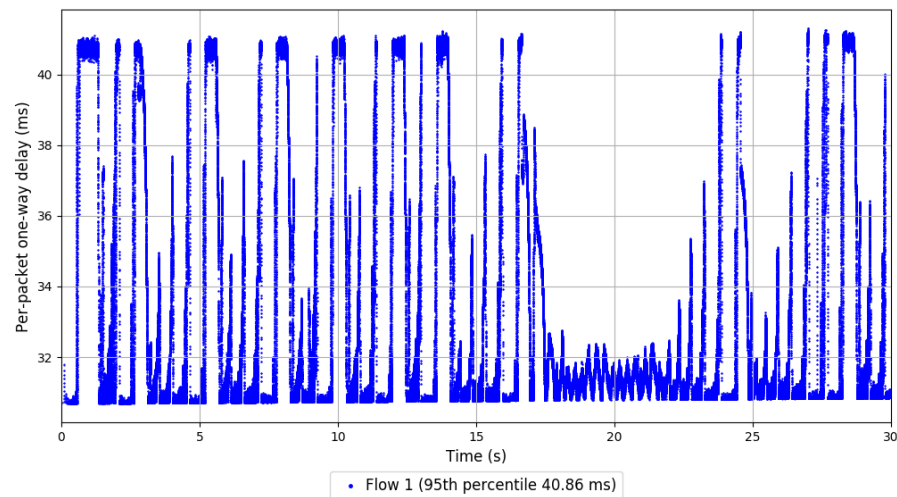
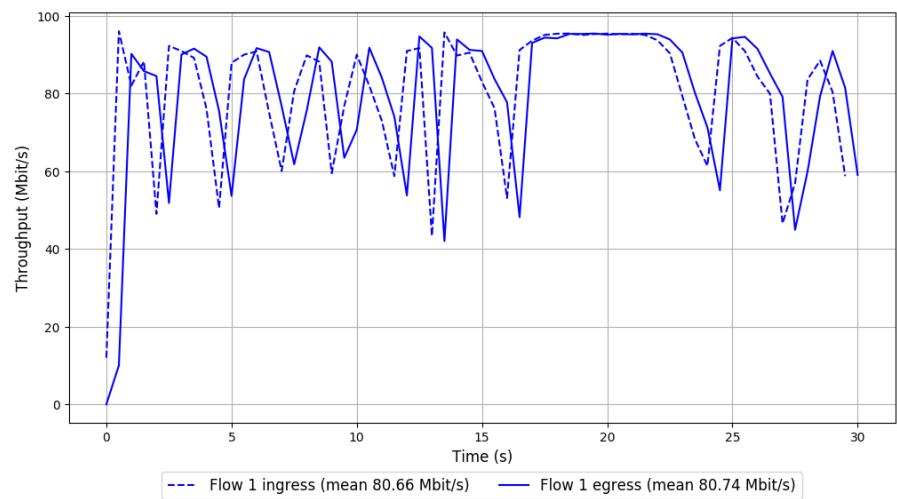


Run 6: Statistics of Copa

Start at: 2018-06-19 03:36:48  
End at: 2018-06-19 03:37:18  
Local clock offset: 0.476 ms  
Remote clock offset: -0.392 ms

# Below is generated by plot.py at 2018-06-19 05:16:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.74 Mbit/s  
95th percentile per-packet one-way delay: 40.860 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 80.74 Mbit/s  
95th percentile per-packet one-way delay: 40.860 ms  
Loss rate: 0.10%

Run 6: Report of Copa — Data Link



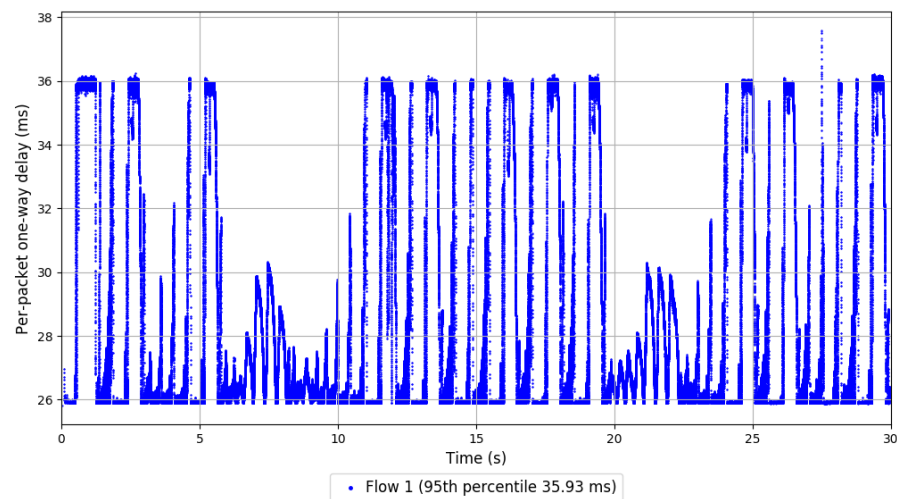
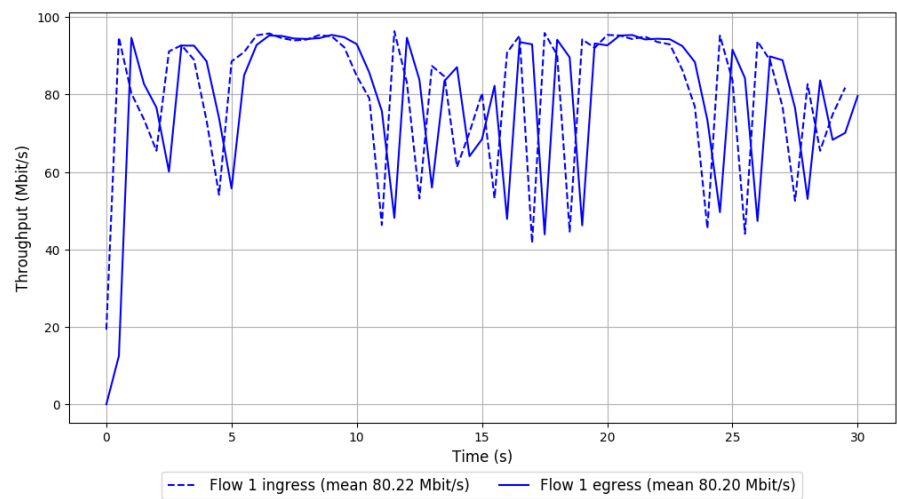
Run 7: Statistics of Copa

Start at: 2018-06-19 03:57:41  
End at: 2018-06-19 03:58:11  
Local clock offset: -2.676 ms  
Remote clock offset: -0.353 ms

# Below is generated by plot.py at 2018-06-19 05:17:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.20 Mbit/s  
95th percentile per-packet one-way delay: 35.929 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 80.20 Mbit/s  
95th percentile per-packet one-way delay: 35.929 ms  
Loss rate: 0.21%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-19 04:18:35

End at: 2018-06-19 04:19:05

Local clock offset: -0.261 ms

Remote clock offset: -3.64 ms

# Below is generated by plot.py at 2018-06-19 05:17:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 42.564 ms

Loss rate: 0.19%

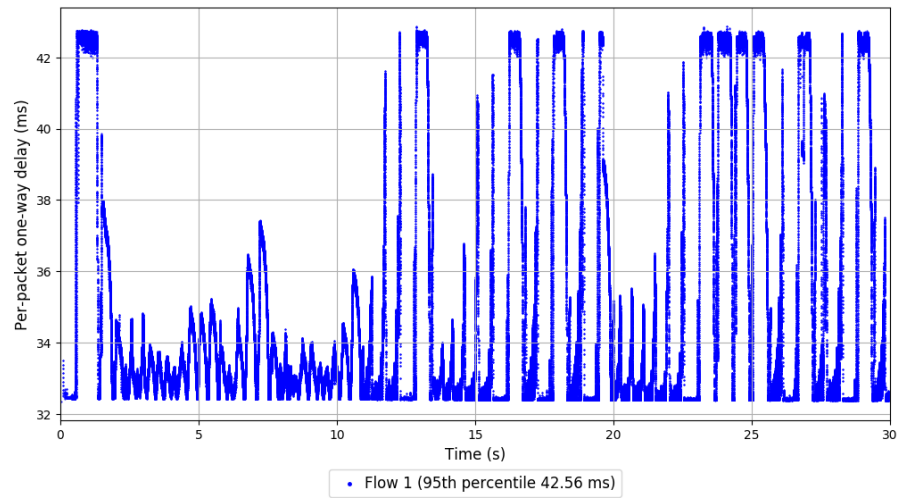
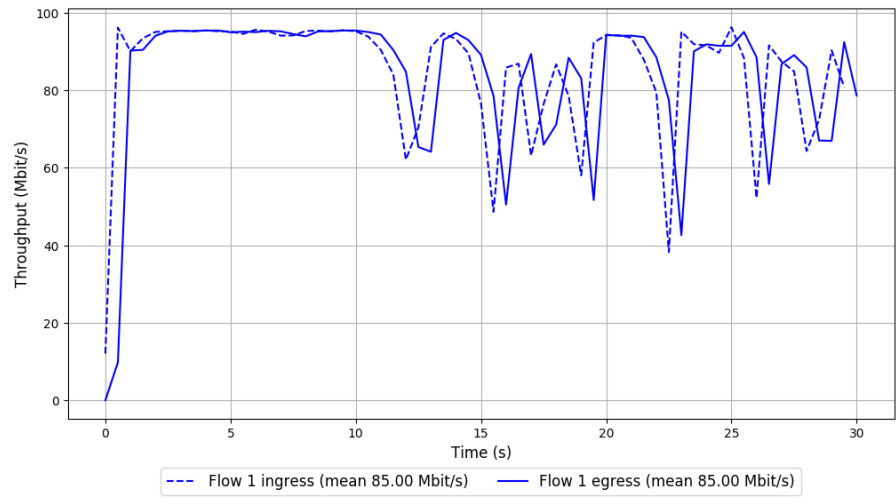
-- Flow 1:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 42.564 ms

Loss rate: 0.19%

### Run 8: Report of Copa — Data Link

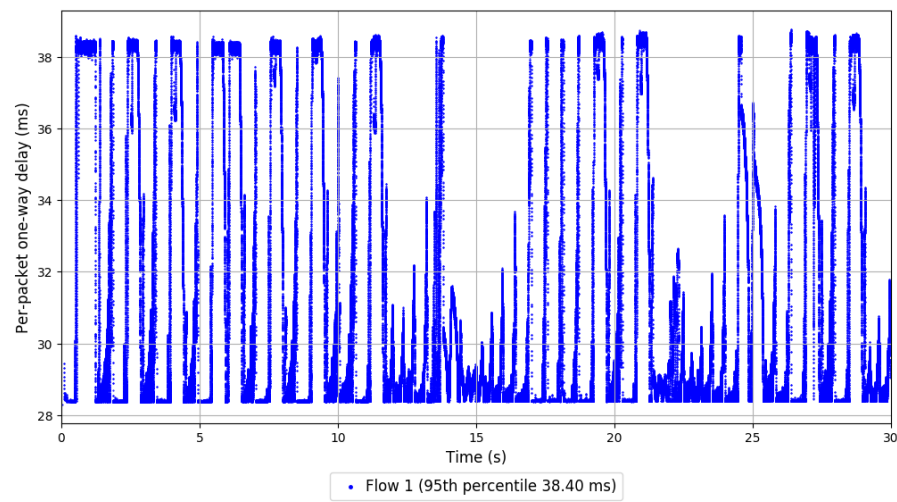
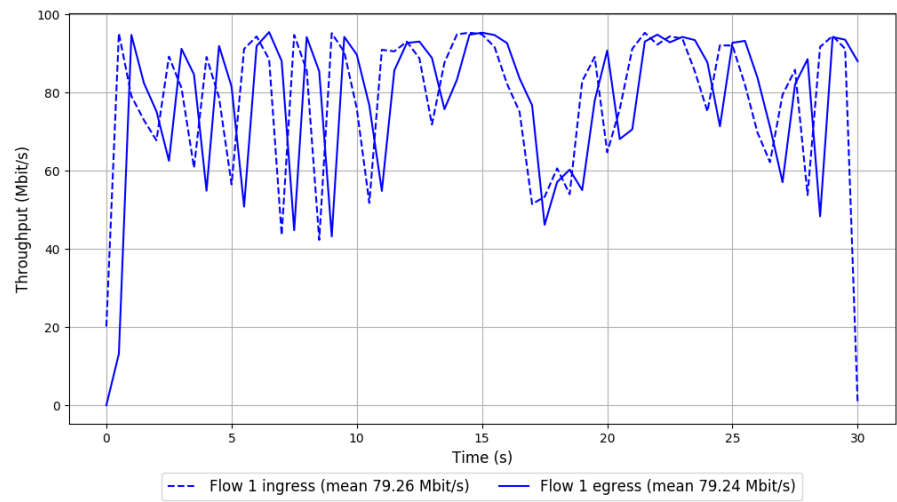


Run 9: Statistics of Copa

Start at: 2018-06-19 04:39:45  
End at: 2018-06-19 04:40:15  
Local clock offset: 0.468 ms  
Remote clock offset: -2.981 ms

# Below is generated by plot.py at 2018-06-19 05:18:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.24 Mbit/s  
95th percentile per-packet one-way delay: 38.399 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 79.24 Mbit/s  
95th percentile per-packet one-way delay: 38.399 ms  
Loss rate: 0.21%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-19 05:00:42

End at: 2018-06-19 05:01:12

Local clock offset: 0.845 ms

Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-19 05:18:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 35.765 ms

Loss rate: 0.24%

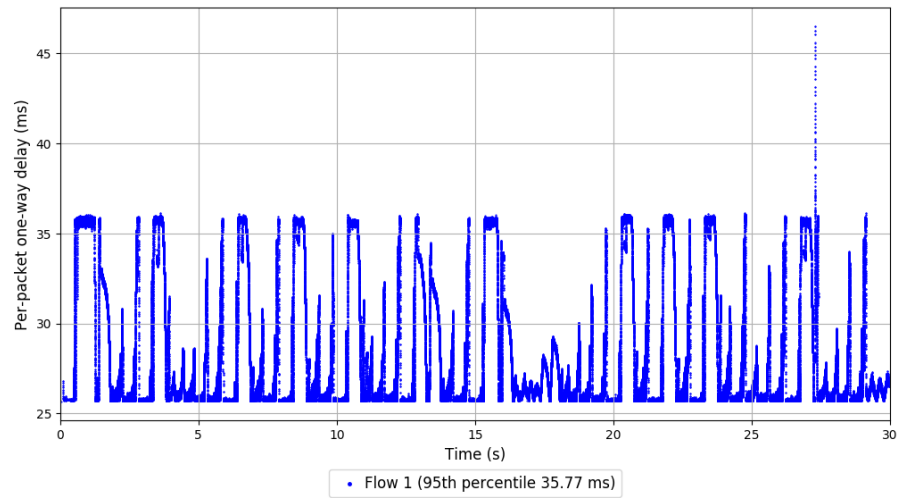
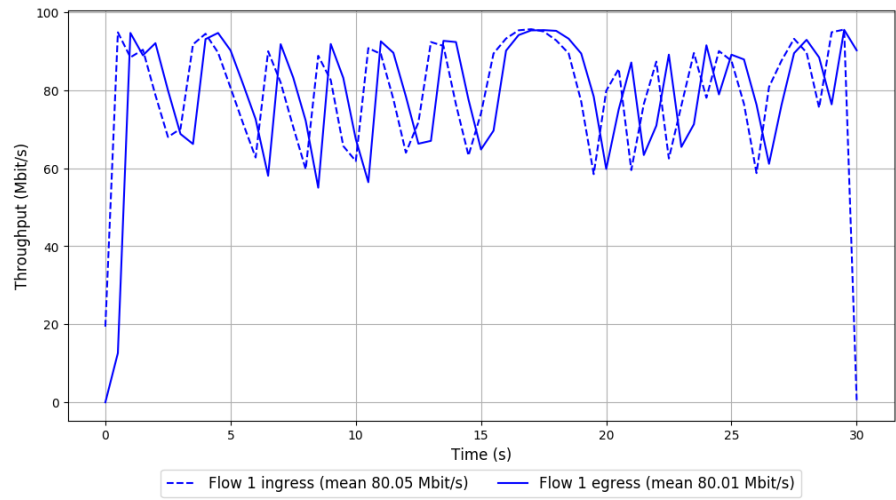
-- Flow 1:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 35.765 ms

Loss rate: 0.24%

# Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 01:56:13

End at: 2018-06-19 01:56:43

Local clock offset: -3.038 ms

Remote clock offset: 0.536 ms

# Below is generated by plot.py at 2018-06-19 05:18:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.58 Mbit/s

95th percentile per-packet one-way delay: 32.229 ms

Loss rate: 0.17%

-- Flow 1:

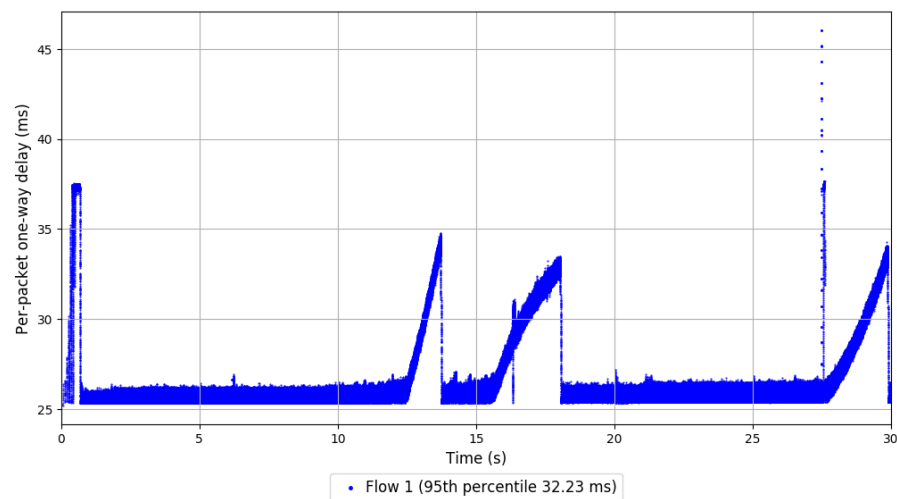
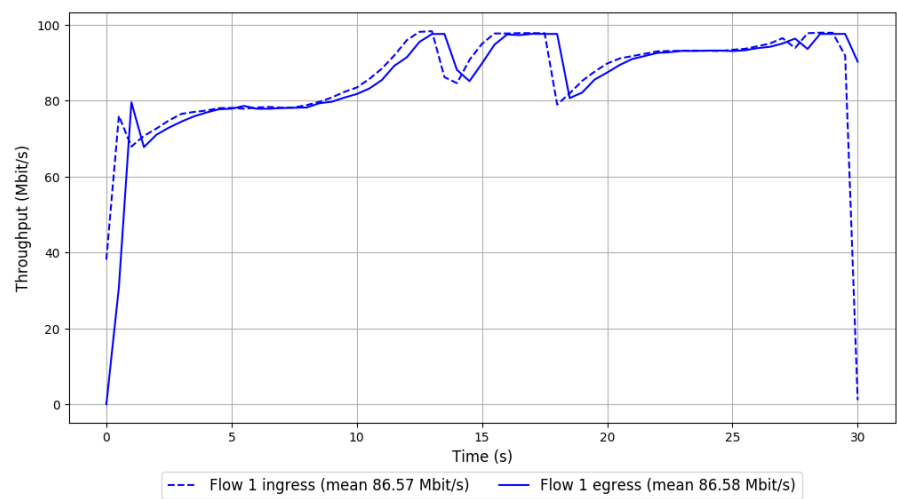
Average throughput: 86.58 Mbit/s

95th percentile per-packet one-way delay: 32.229 ms

Loss rate: 0.17%



Run 1: Report of TCP Cubic — Data Link

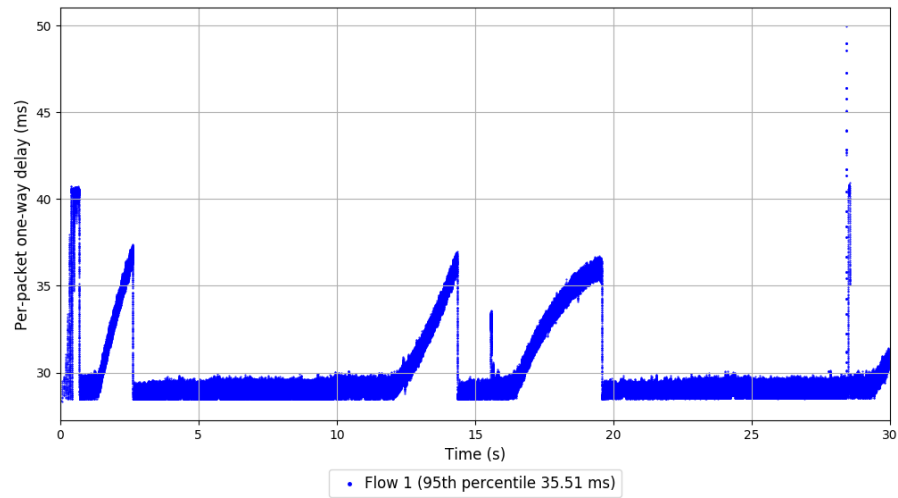
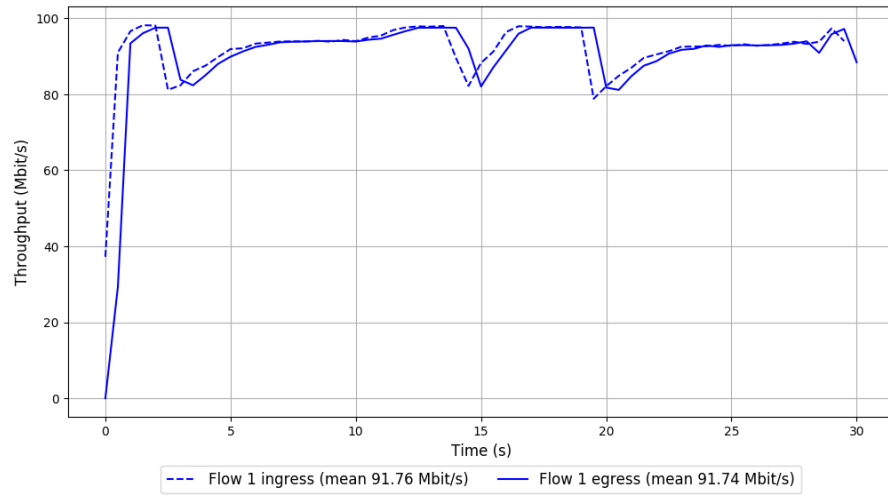


Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 02:17:09  
End at: 2018-06-19 02:17:39  
Local clock offset: -4.146 ms  
Remote clock offset: -1.177 ms

# Below is generated by plot.py at 2018-06-19 05:18:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.74 Mbit/s  
95th percentile per-packet one-way delay: 35.509 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 91.74 Mbit/s  
95th percentile per-packet one-way delay: 35.509 ms  
Loss rate: 0.21%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 02:38:04

End at: 2018-06-19 02:38:34

Local clock offset: -2.713 ms

Remote clock offset: 2.163 ms

# Below is generated by plot.py at 2018-06-19 05:18:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 37.448 ms

Loss rate: 0.22%

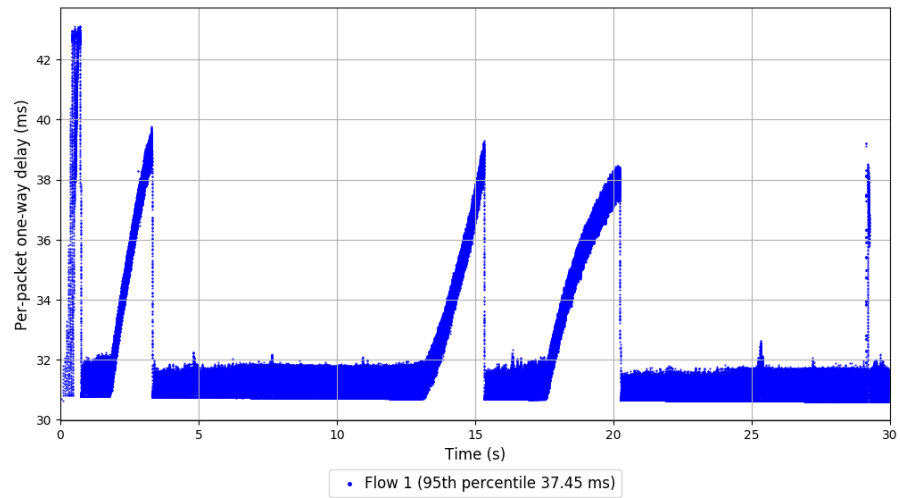
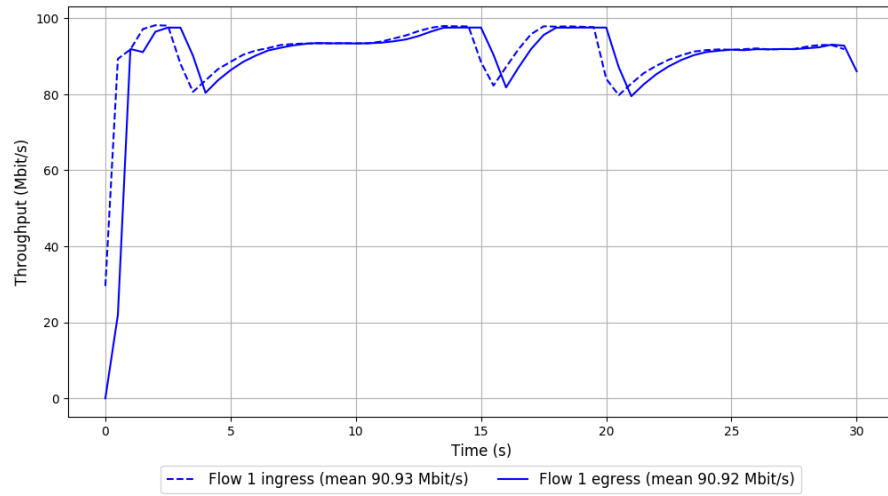
-- Flow 1:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 37.448 ms

Loss rate: 0.22%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 02:58:59

End at: 2018-06-19 02:59:29

Local clock offset: 1.353 ms

Remote clock offset: 0.868 ms

# Below is generated by plot.py at 2018-06-19 05:18:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 37.056 ms

Loss rate: 0.22%

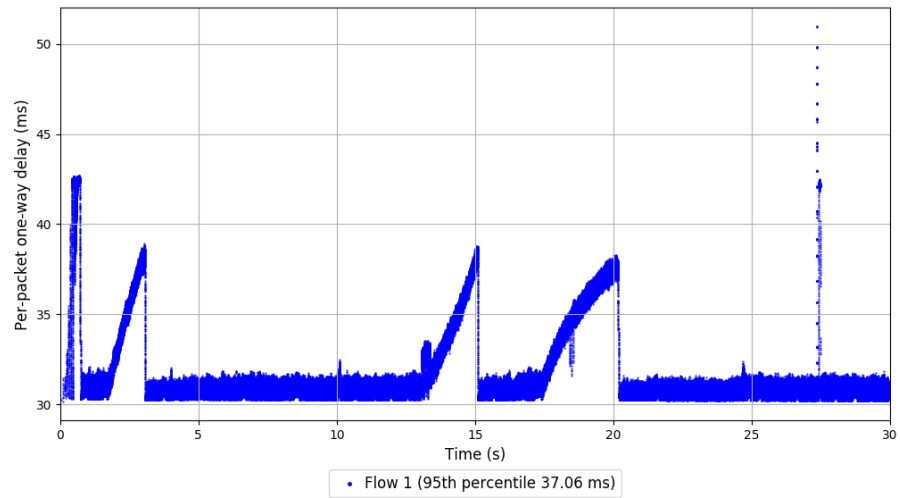
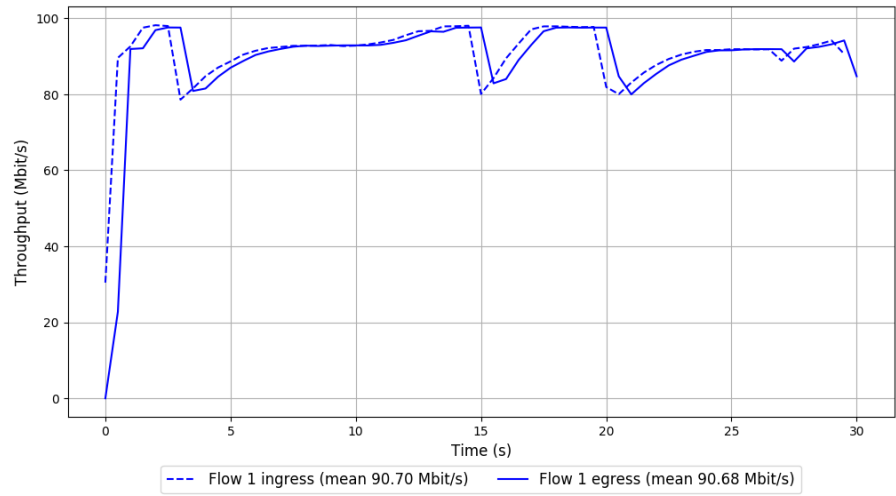
-- Flow 1:

Average throughput: 90.68 Mbit/s

95th percentile per-packet one-way delay: 37.056 ms

Loss rate: 0.22%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 03:19:52

End at: 2018-06-19 03:20:22

Local clock offset: 1.265 ms

Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-06-19 05:18:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.79 Mbit/s

95th percentile per-packet one-way delay: 38.141 ms

Loss rate: 0.22%

-- Flow 1:

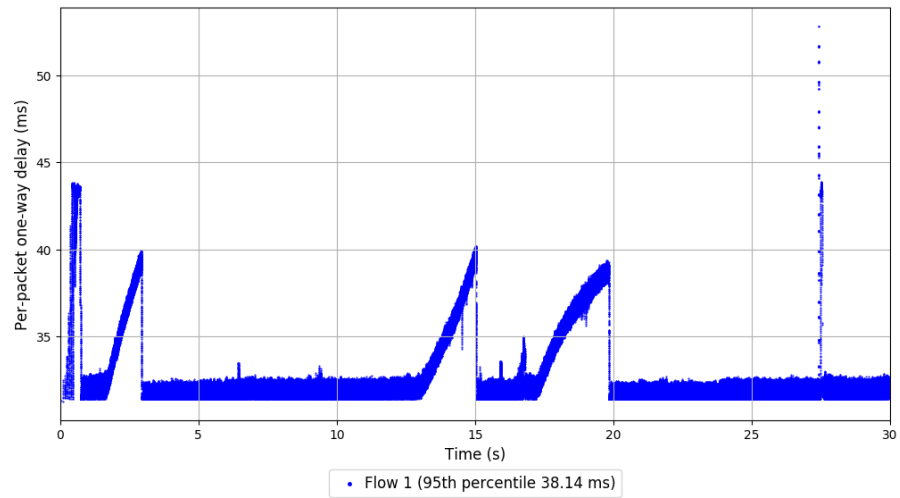
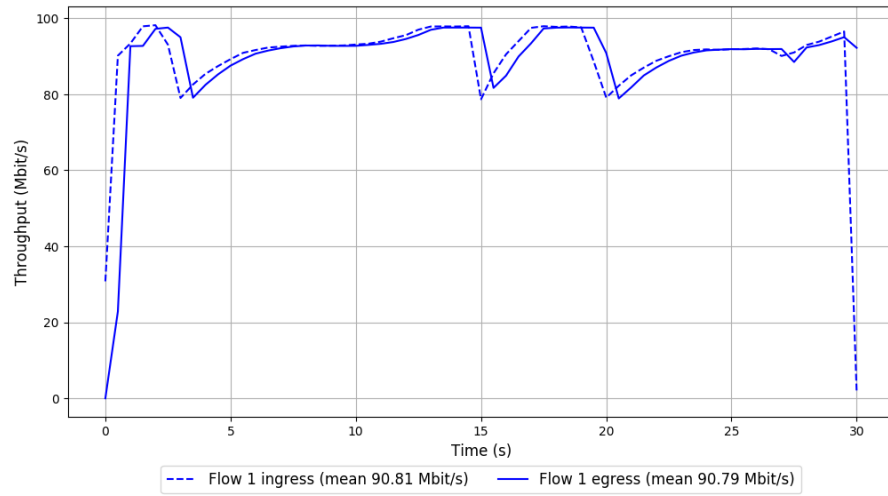
Average throughput: 90.79 Mbit/s

95th percentile per-packet one-way delay: 38.141 ms

Loss rate: 0.22%



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

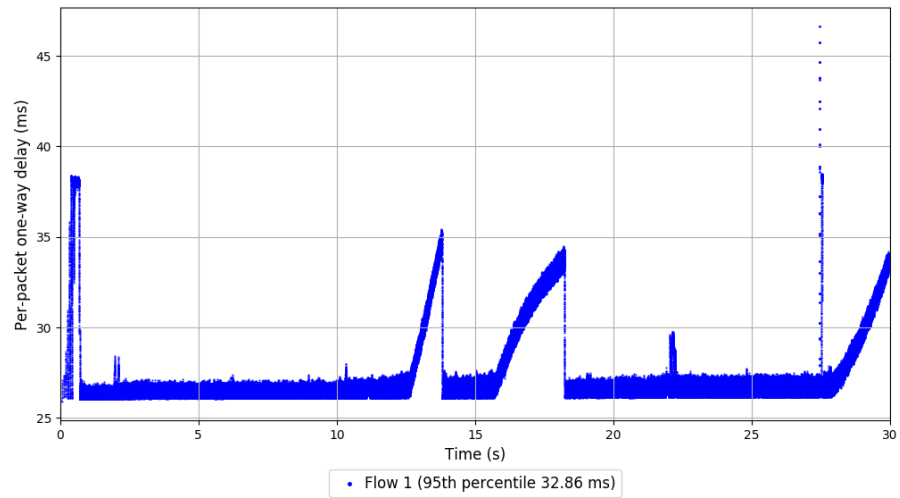
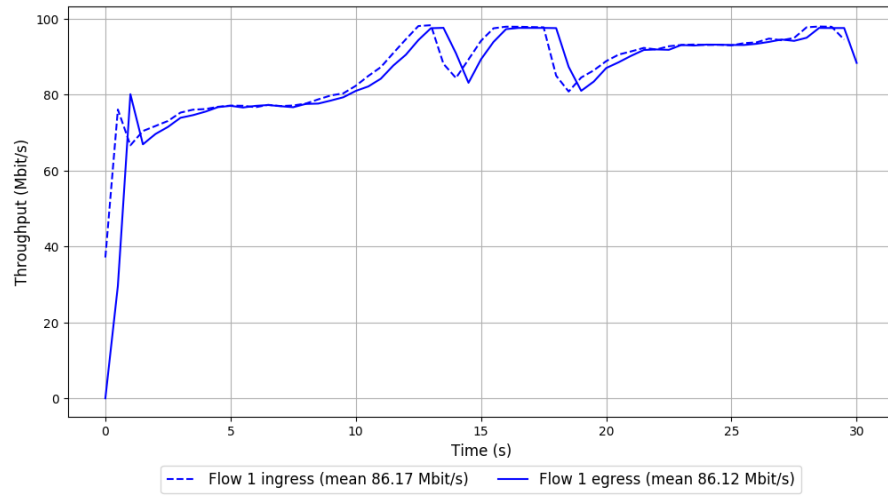


Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 03:40:47  
End at: 2018-06-19 03:41:17  
Local clock offset: -0.852 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-19 05:18:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.12 Mbit/s  
95th percentile per-packet one-way delay: 32.856 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 86.12 Mbit/s  
95th percentile per-packet one-way delay: 32.856 ms  
Loss rate: 0.24%

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



Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 04:01:39

End at: 2018-06-19 04:02:09

Local clock offset: -2.819 ms

Remote clock offset: -1.12 ms

# Below is generated by plot.py at 2018-06-19 05:18:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.38 Mbit/s

95th percentile per-packet one-way delay: 33.022 ms

Loss rate: 0.18%

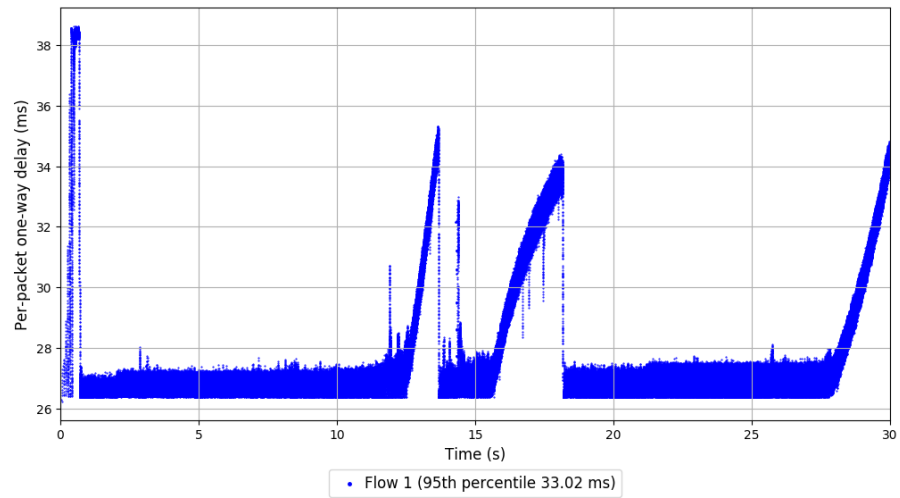
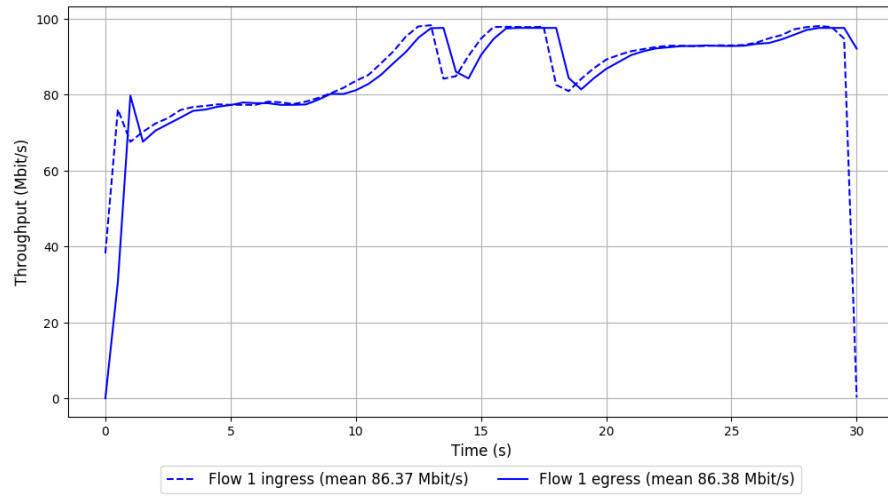
-- Flow 1:

Average throughput: 86.38 Mbit/s

95th percentile per-packet one-way delay: 33.022 ms

Loss rate: 0.18%

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

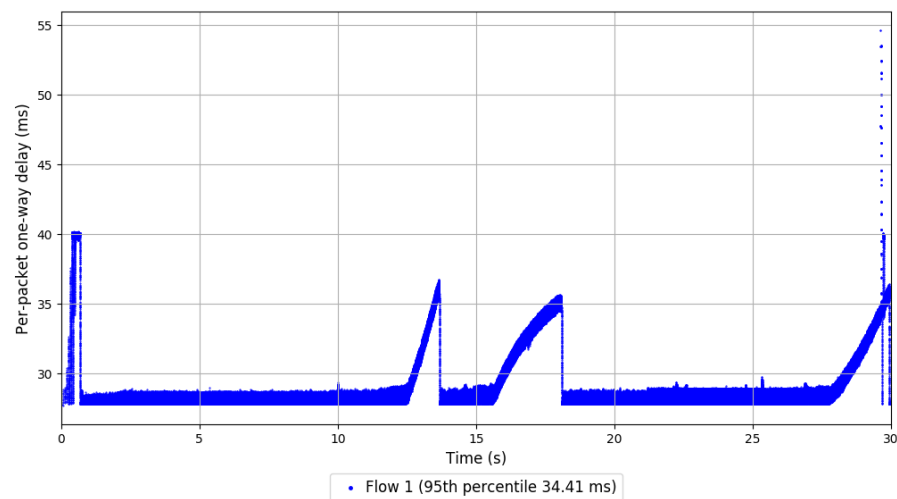
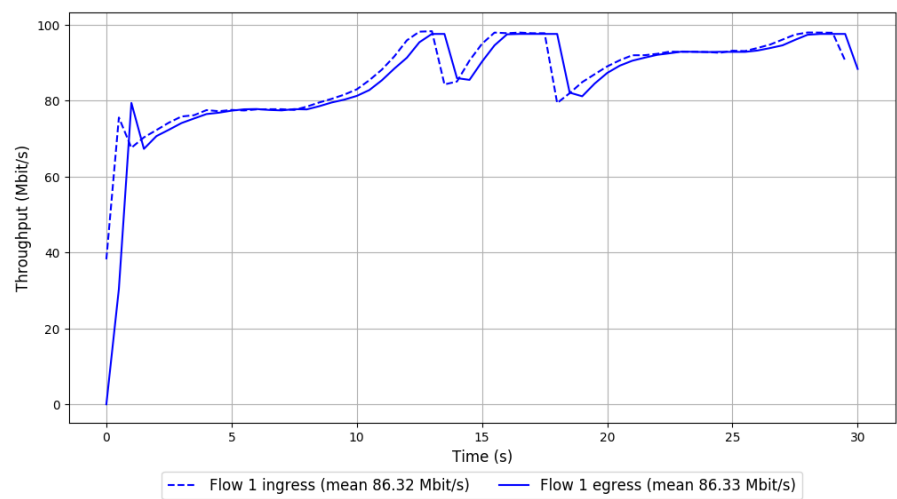


Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 04:22:49  
End at: 2018-06-19 04:23:19  
Local clock offset: 0.036 ms  
Remote clock offset: -3.831 ms

# Below is generated by plot.py at 2018-06-19 05:18:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.33 Mbit/s  
95th percentile per-packet one-way delay: 34.415 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 86.33 Mbit/s  
95th percentile per-packet one-way delay: 34.415 ms  
Loss rate: 0.17%

Run 8: Report of TCP Cubic — Data Link



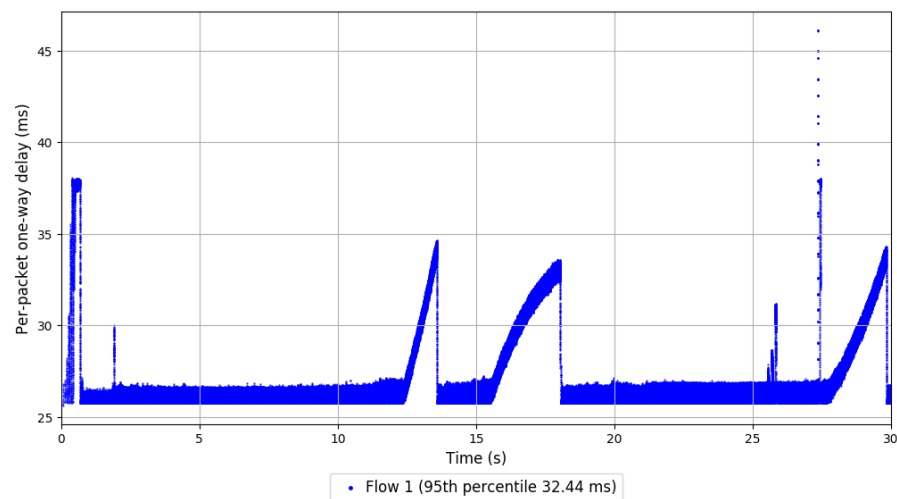
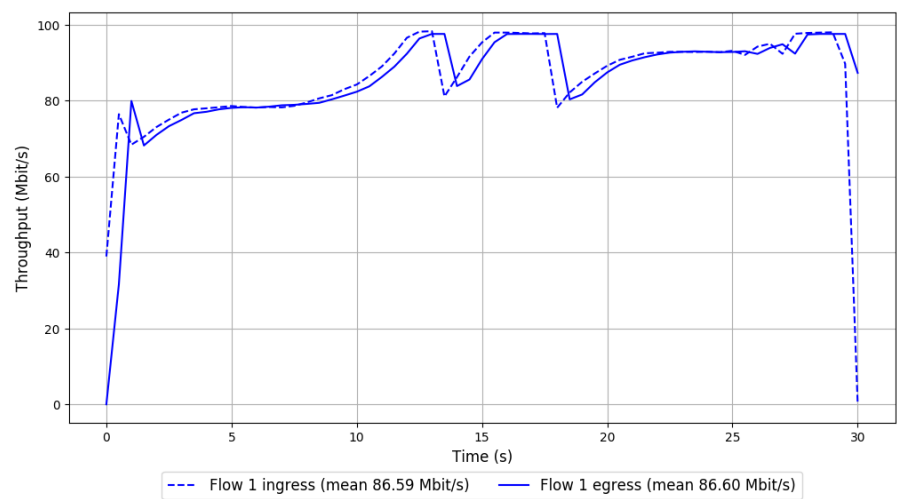
Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 04:43:45  
End at: 2018-06-19 04:44:15  
Local clock offset: 0.599 ms  
Remote clock offset: -0.795 ms

# Below is generated by plot.py at 2018-06-19 05:18:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.60 Mbit/s  
95th percentile per-packet one-way delay: 32.440 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 86.60 Mbit/s  
95th percentile per-packet one-way delay: 32.440 ms  
Loss rate: 0.17%



Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 05:04:41

End at: 2018-06-19 05:05:11

Local clock offset: 0.931 ms

Remote clock offset: -0.516 ms

# Below is generated by plot.py at 2018-06-19 05:18:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.28 Mbit/s

95th percentile per-packet one-way delay: 32.255 ms

Loss rate: 0.17%

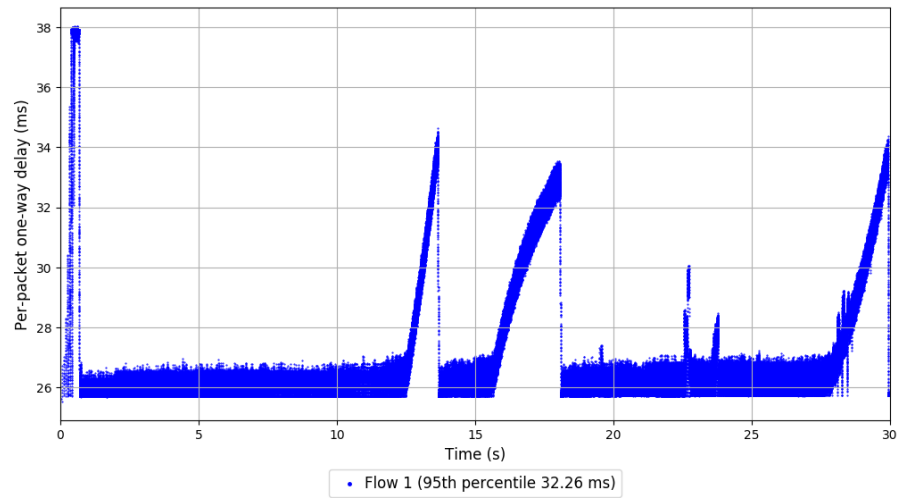
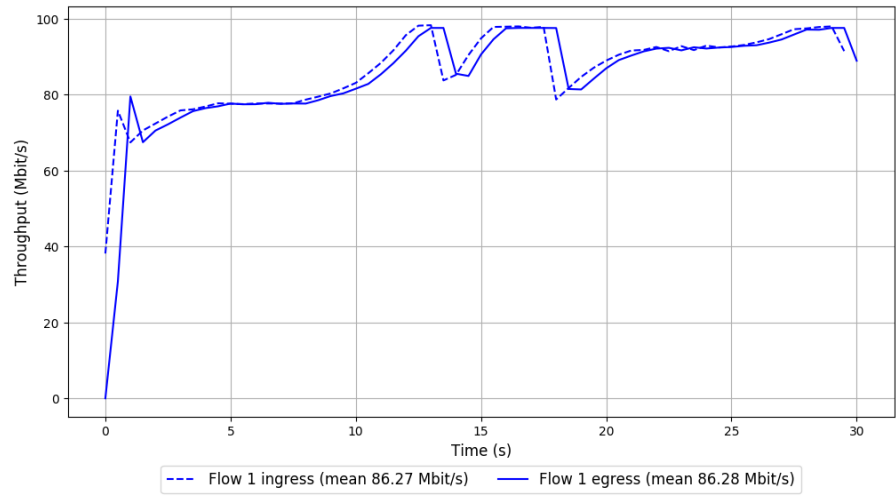
-- Flow 1:

Average throughput: 86.28 Mbit/s

95th percentile per-packet one-way delay: 32.255 ms

Loss rate: 0.17%

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



Run 1: Statistics of FillP

Start at: 2018-06-19 01:44:20

End at: 2018-06-19 01:44:50

Local clock offset: -1.968 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-06-19 05:19:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 35.762 ms

Loss rate: 0.22%

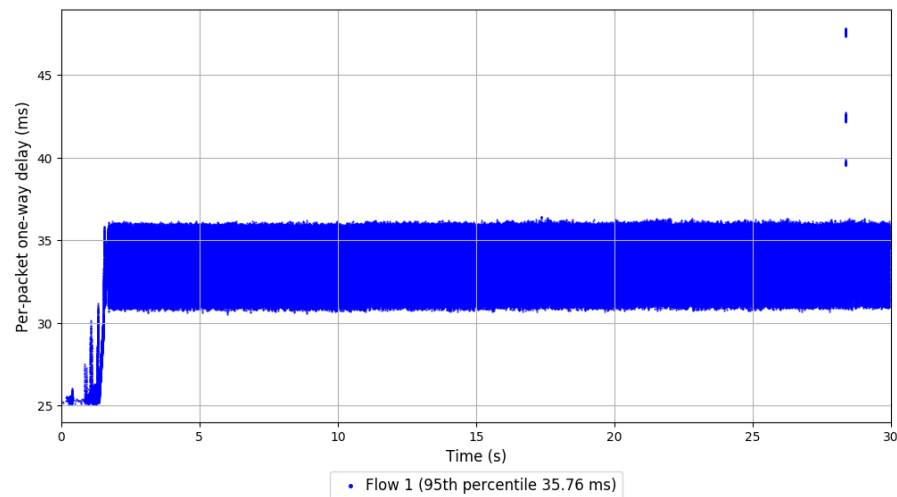
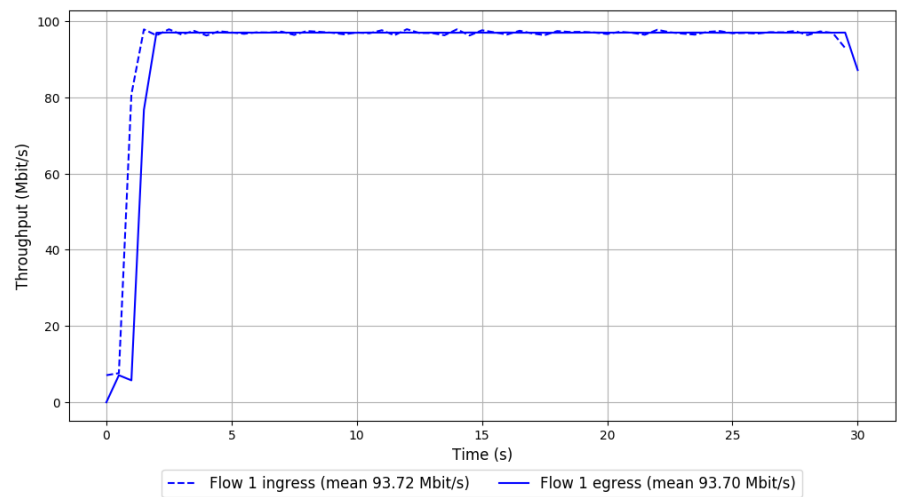
-- Flow 1:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 35.762 ms

Loss rate: 0.22%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-19 02:05:16

End at: 2018-06-19 02:05:46

Local clock offset: -3.565 ms

Remote clock offset: 0.874 ms

# Below is generated by plot.py at 2018-06-19 05:19:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.20 Mbit/s

95th percentile per-packet one-way delay: 40.867 ms

Loss rate: 0.23%

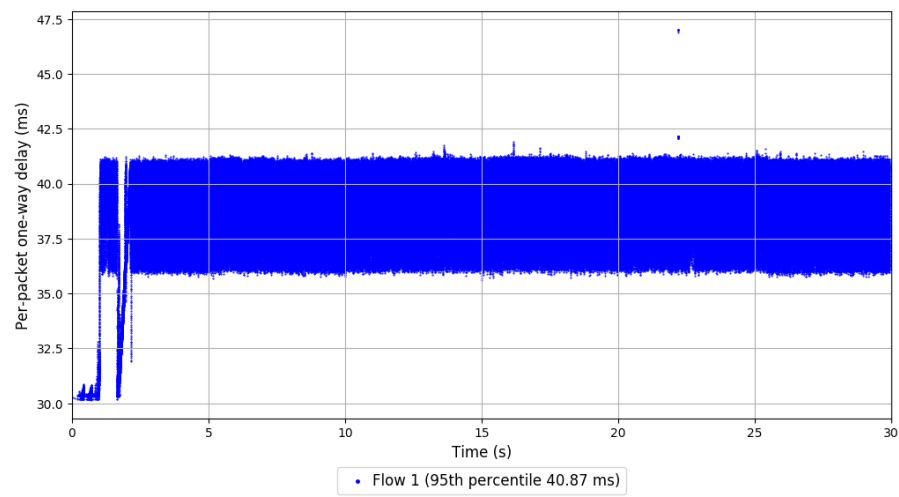
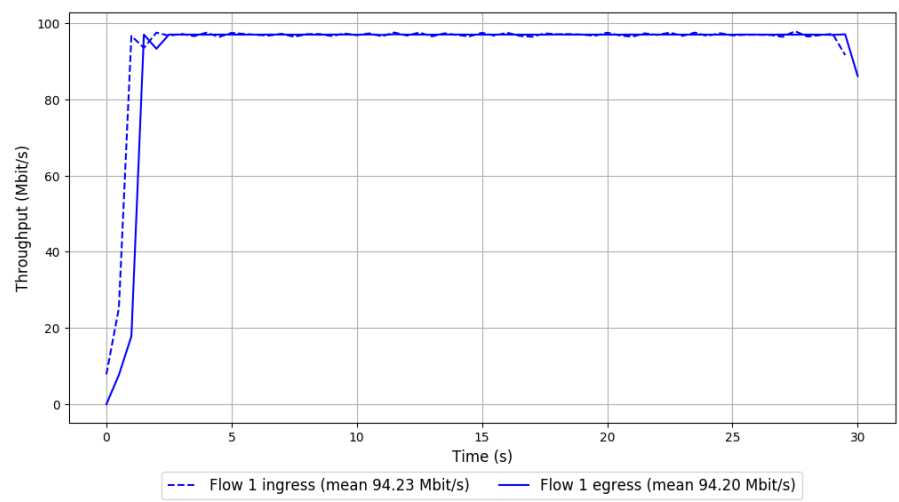
-- Flow 1:

Average throughput: 94.20 Mbit/s

95th percentile per-packet one-way delay: 40.867 ms

Loss rate: 0.23%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-19 02:26:11

End at: 2018-06-19 02:26:41

Local clock offset: -4.63 ms

Remote clock offset: 1.741 ms

# Below is generated by plot.py at 2018-06-19 05:19:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 41.389 ms

Loss rate: 0.24%

-- Flow 1:

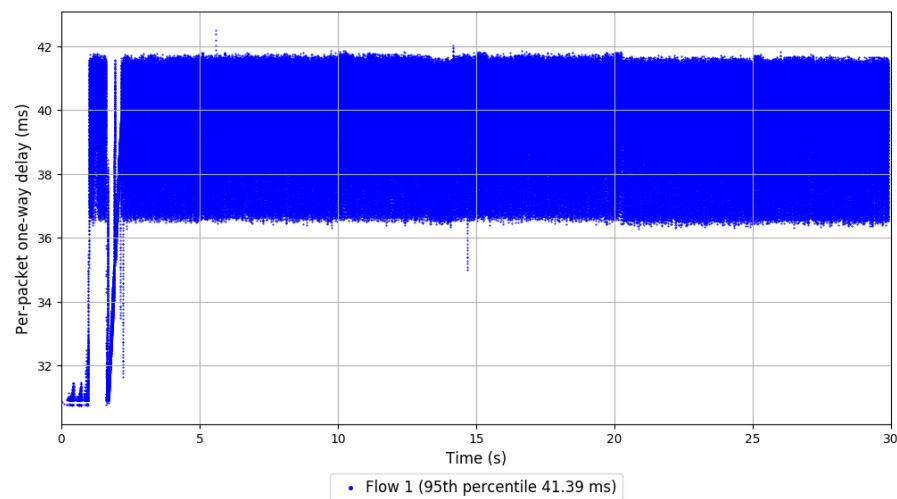
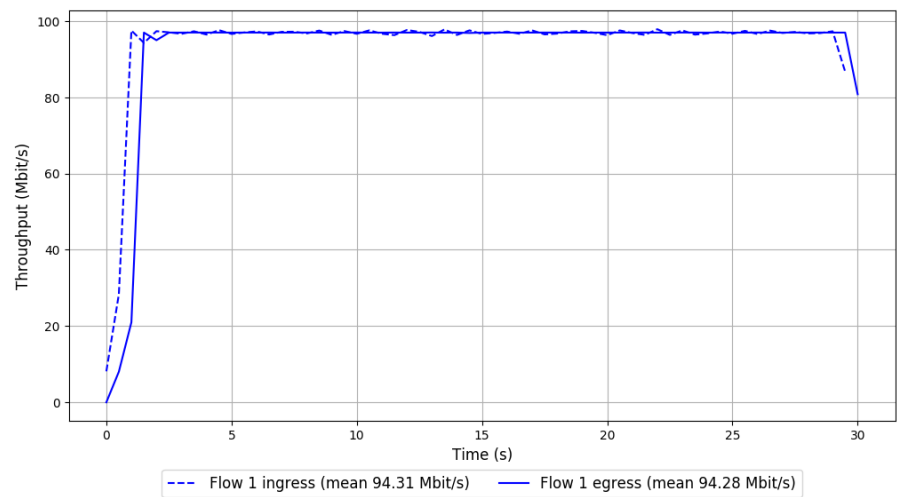
Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 41.389 ms

Loss rate: 0.24%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-19 02:47:06

End at: 2018-06-19 02:47:36

Local clock offset: -0.115 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-19 05:19:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 43.758 ms

Loss rate: 0.24%

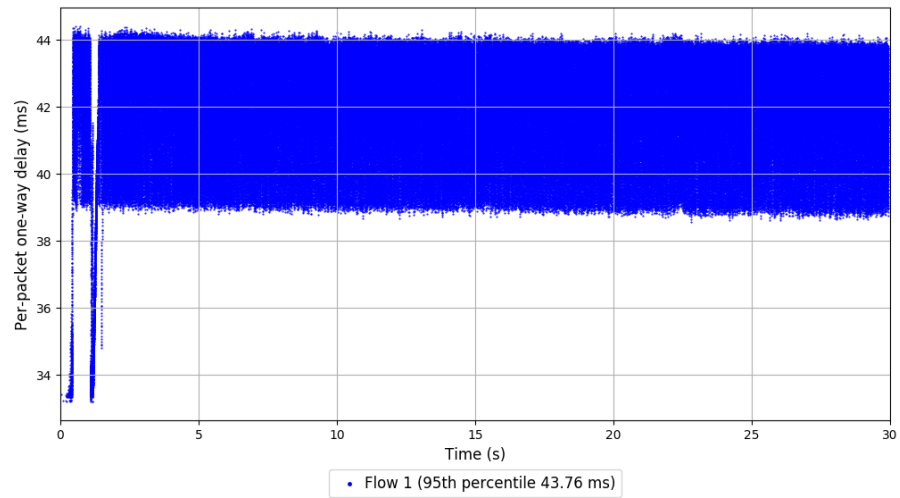
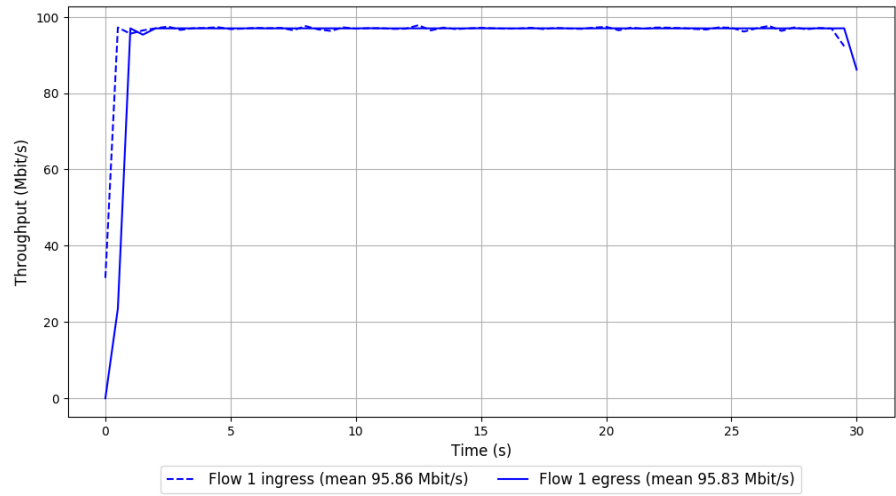
-- Flow 1:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 43.758 ms

Loss rate: 0.24%

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



Run 5: Statistics of FillP

Start at: 2018-06-19 03:08:00

End at: 2018-06-19 03:08:30

Local clock offset: 1.421 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-06-19 05:19:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 41.092 ms

Loss rate: 0.24%

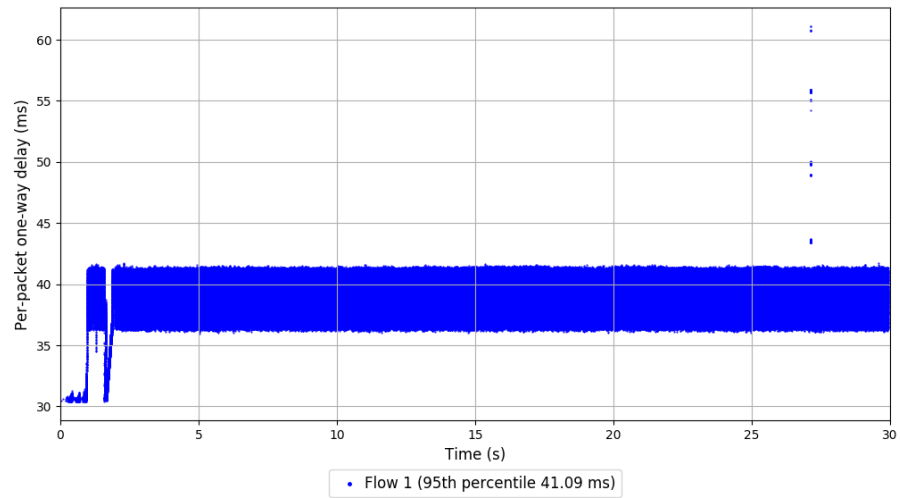
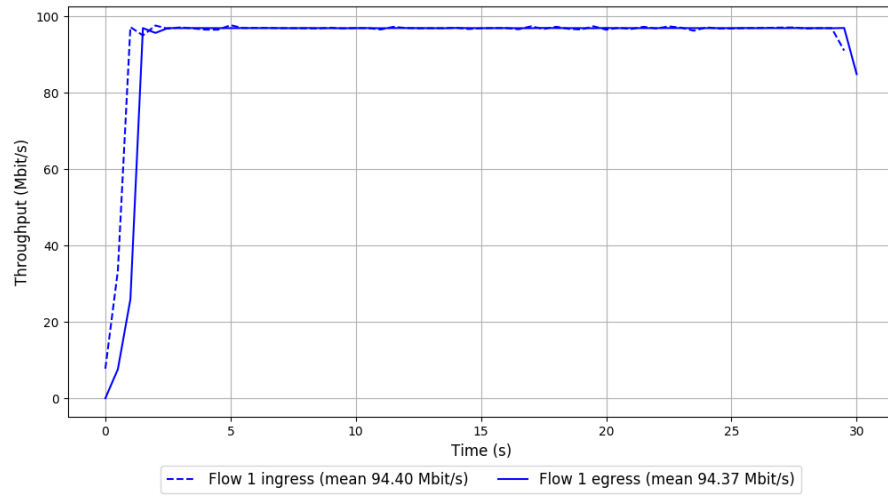
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 41.092 ms

Loss rate: 0.24%

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



Run 6: Statistics of FillP

Start at: 2018-06-19 03:28:54

End at: 2018-06-19 03:29:24

Local clock offset: 1.474 ms

Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2018-06-19 05:20:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 39.761 ms

Loss rate: 0.23%

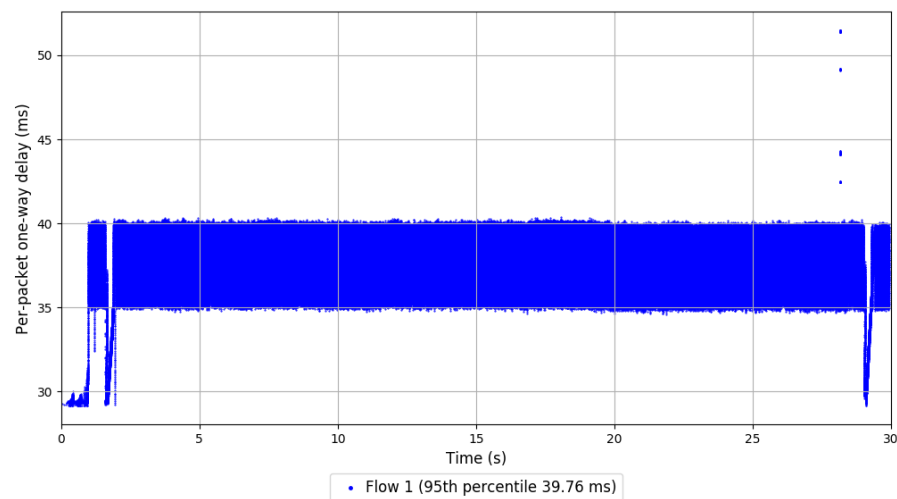
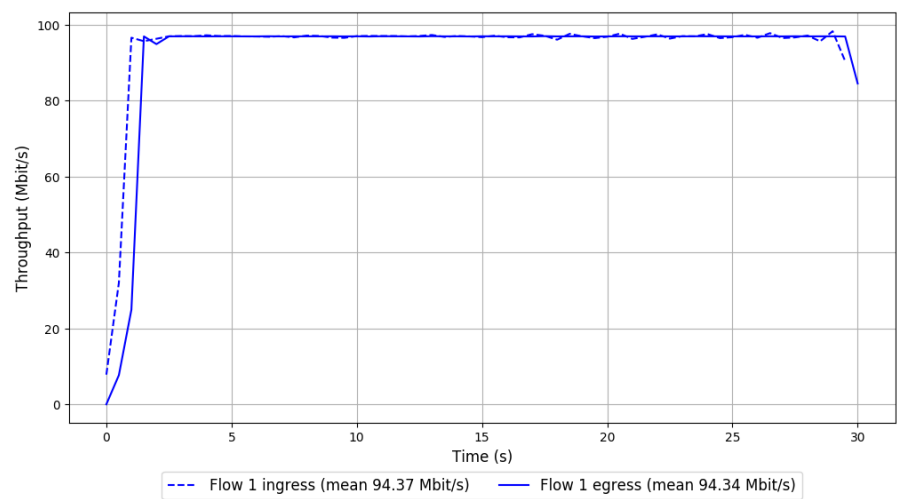
-- Flow 1:

Average throughput: 94.34 Mbit/s

95th percentile per-packet one-way delay: 39.761 ms

Loss rate: 0.23%

Run 6: Report of FillP — Data Link



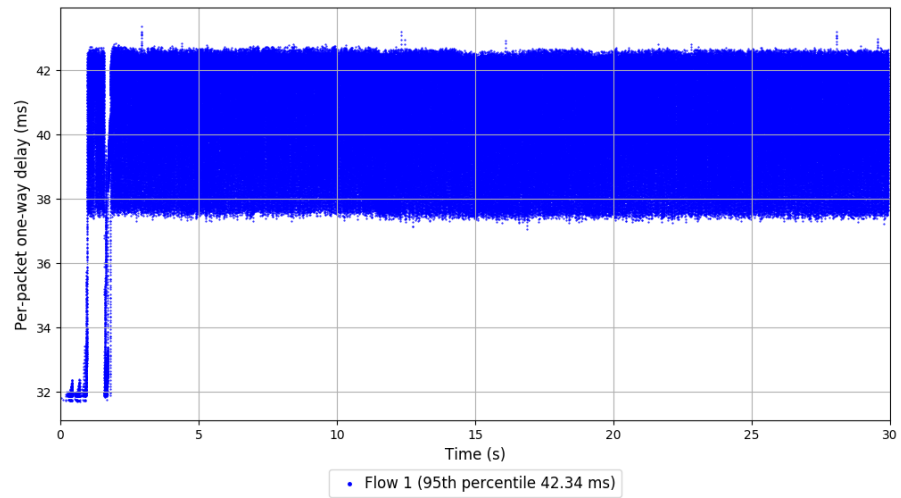
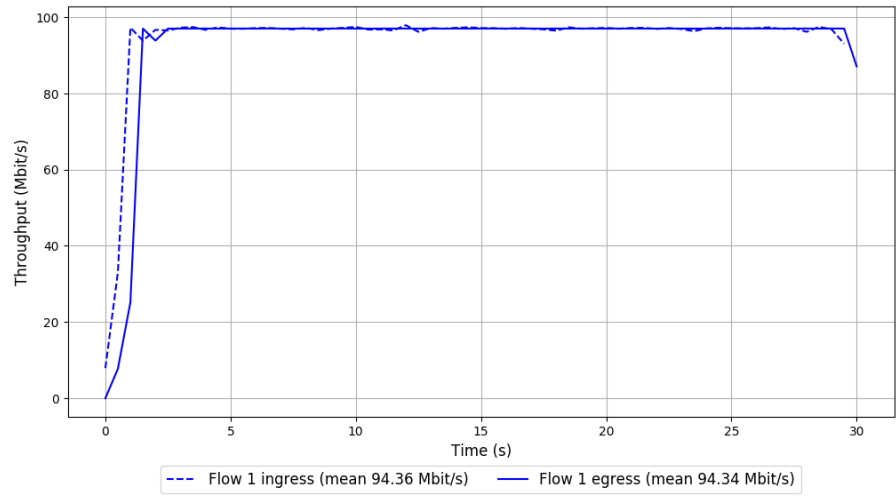
Run 7: Statistics of FillP

Start at: 2018-06-19 03:49:47  
End at: 2018-06-19 03:50:17  
Local clock offset: -2.205 ms  
Remote clock offset: -2.704 ms

# Below is generated by plot.py at 2018-06-19 05:20:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.34 Mbit/s  
95th percentile per-packet one-way delay: 42.340 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 94.34 Mbit/s  
95th percentile per-packet one-way delay: 42.340 ms  
Loss rate: 0.24%



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

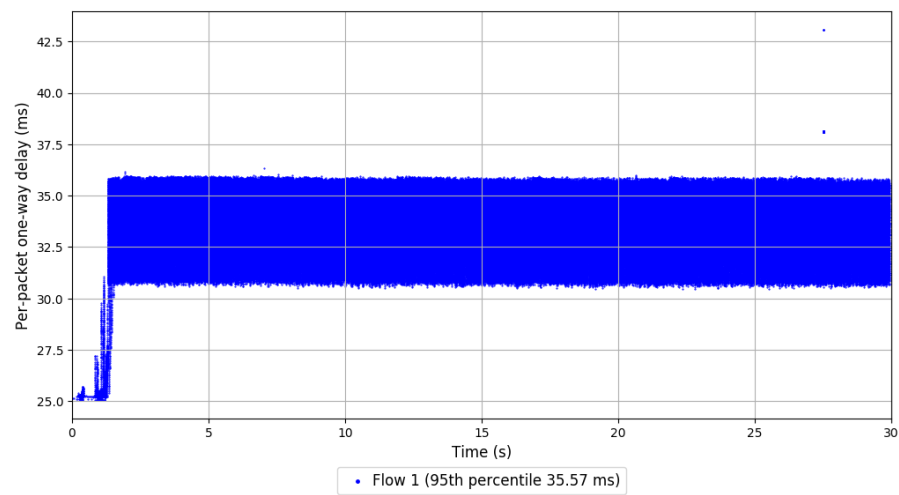
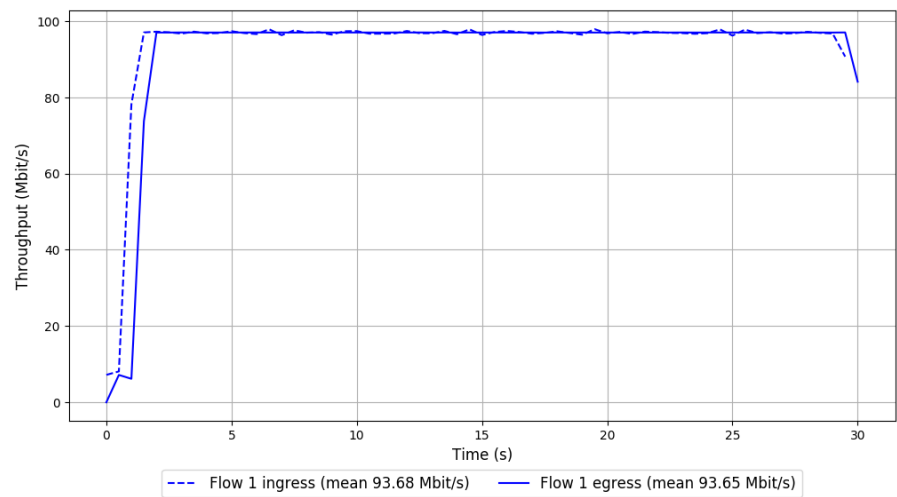


Run 8: Statistics of FillP

Start at: 2018-06-19 04:10:40  
End at: 2018-06-19 04:11:10  
Local clock offset: -1.243 ms  
Remote clock offset: -0.965 ms

# Below is generated by plot.py at 2018-06-19 05:20:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.65 Mbit/s  
95th percentile per-packet one-way delay: 35.567 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 93.65 Mbit/s  
95th percentile per-packet one-way delay: 35.567 ms  
Loss rate: 0.22%

Run 8: Report of FillP — Data Link

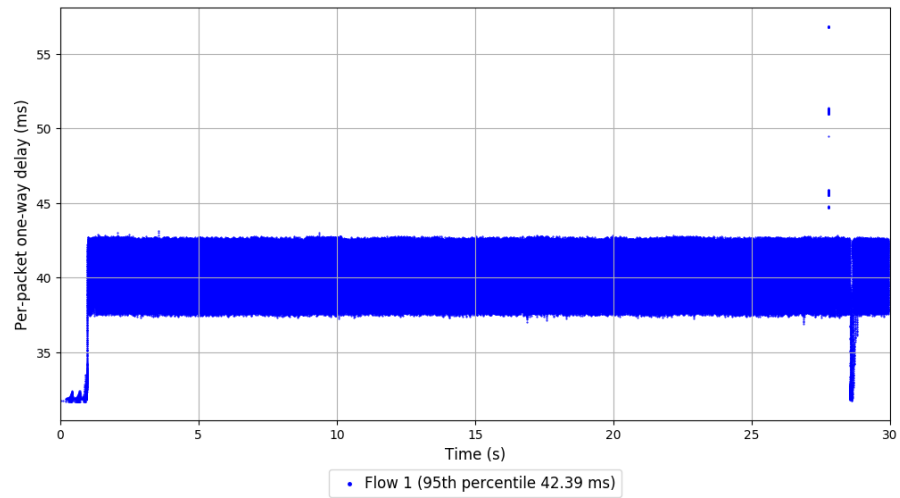
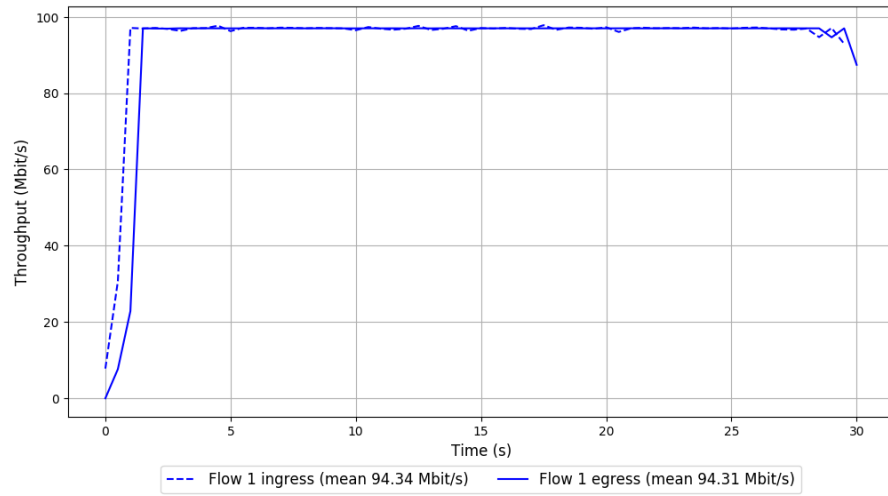


Run 9: Statistics of FillP

Start at: 2018-06-19 04:31:51  
End at: 2018-06-19 04:32:21  
Local clock offset: 0.487 ms  
Remote clock offset: -3.575 ms

# Below is generated by plot.py at 2018-06-19 05:21:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.31 Mbit/s  
95th percentile per-packet one-way delay: 42.390 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 94.31 Mbit/s  
95th percentile per-packet one-way delay: 42.390 ms  
Loss rate: 0.23%

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

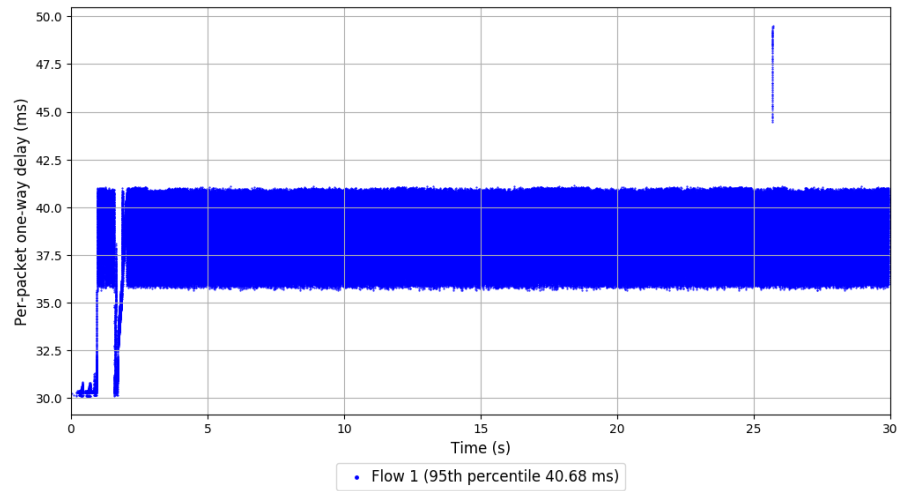
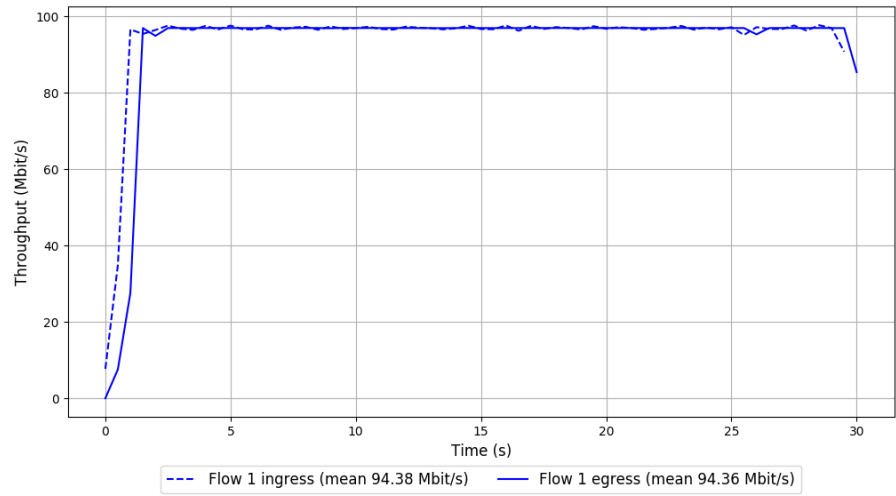


Run 10: Statistics of FillP

Start at: 2018-06-19 04:52:47  
End at: 2018-06-19 04:53:17  
Local clock offset: 0.765 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2018-06-19 05:21:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.36 Mbit/s  
95th percentile per-packet one-way delay: 40.680 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 94.36 Mbit/s  
95th percentile per-packet one-way delay: 40.680 ms  
Loss rate: 0.23%

### Run 10: Report of FillP — Data Link



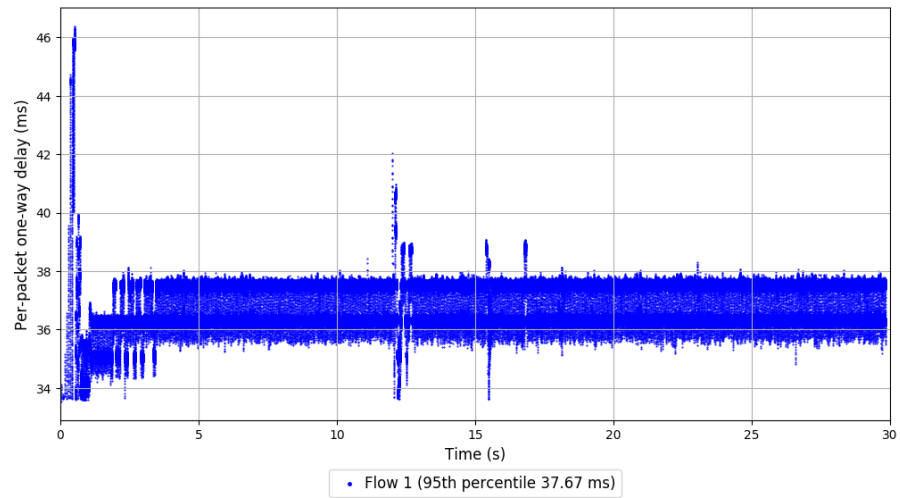
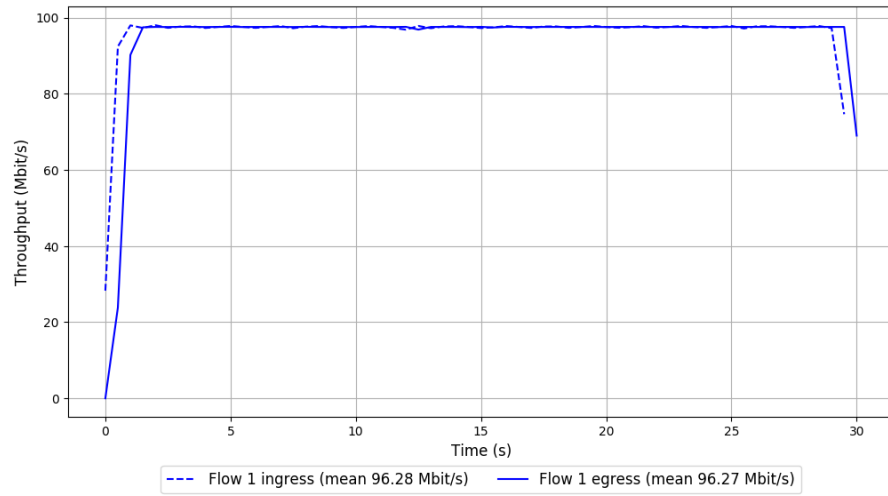
```
Run 1: Statistics of Indigo

Start at: 2018-06-19 02:01:26
End at: 2018-06-19 02:01:56
Local clock offset: -3.337 ms
Remote clock offset: -1.782 ms

# Below is generated by plot.py at 2018-06-19 05:21:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 37.671 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 37.671 ms
Loss rate: 0.22%
```



## Run 1: Report of Indigo — Data Link

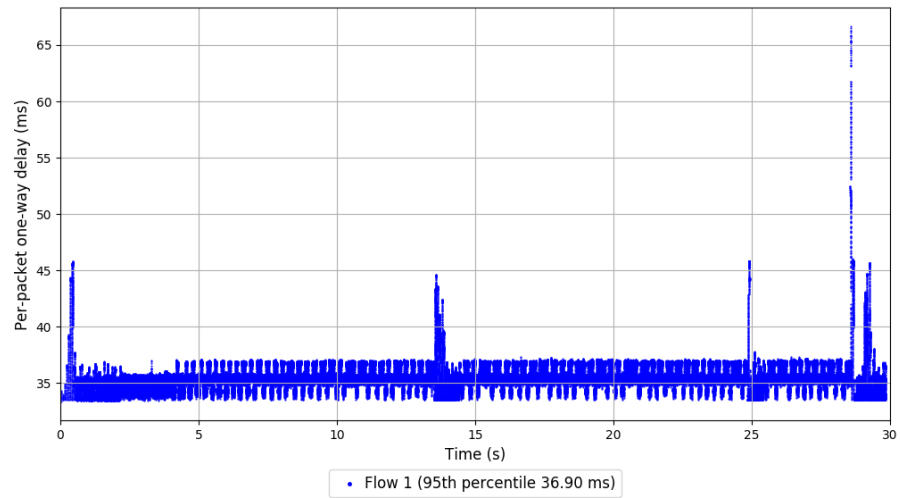
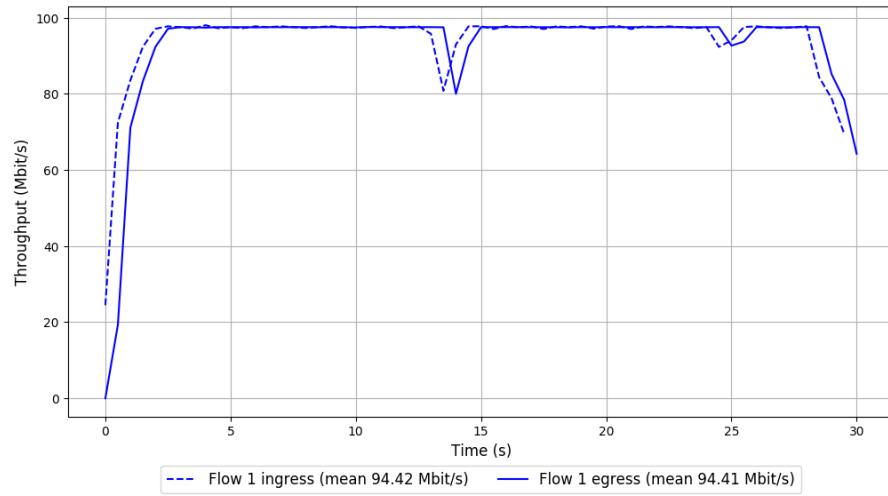


Run 2: Statistics of Indigo

Start at: 2018-06-19 02:22:21  
End at: 2018-06-19 02:22:51  
Local clock offset: -4.466 ms  
Remote clock offset: -0.984 ms

# Below is generated by plot.py at 2018-06-19 05:21:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.41 Mbit/s  
95th percentile per-packet one-way delay: 36.903 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 94.41 Mbit/s  
95th percentile per-packet one-way delay: 36.903 ms  
Loss rate: 0.21%

## Run 2: Report of Indigo — Data Link

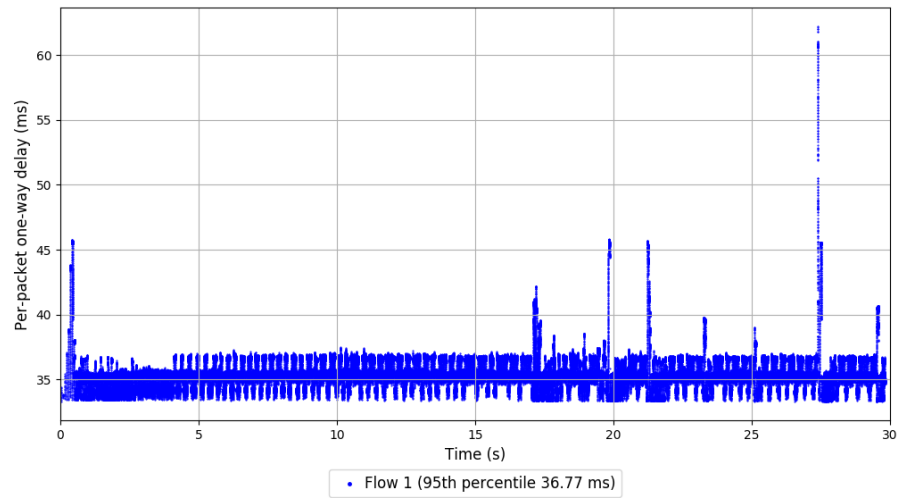
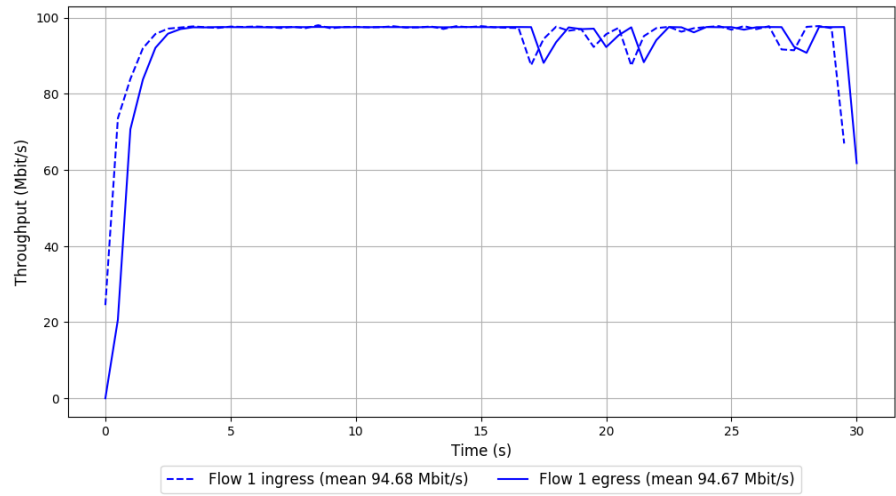


Run 3: Statistics of Indigo

Start at: 2018-06-19 02:43:16  
End at: 2018-06-19 02:43:46  
Local clock offset: -0.986 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-06-19 05:21:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.67 Mbit/s  
95th percentile per-packet one-way delay: 36.773 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 94.67 Mbit/s  
95th percentile per-packet one-way delay: 36.773 ms  
Loss rate: 0.21%

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

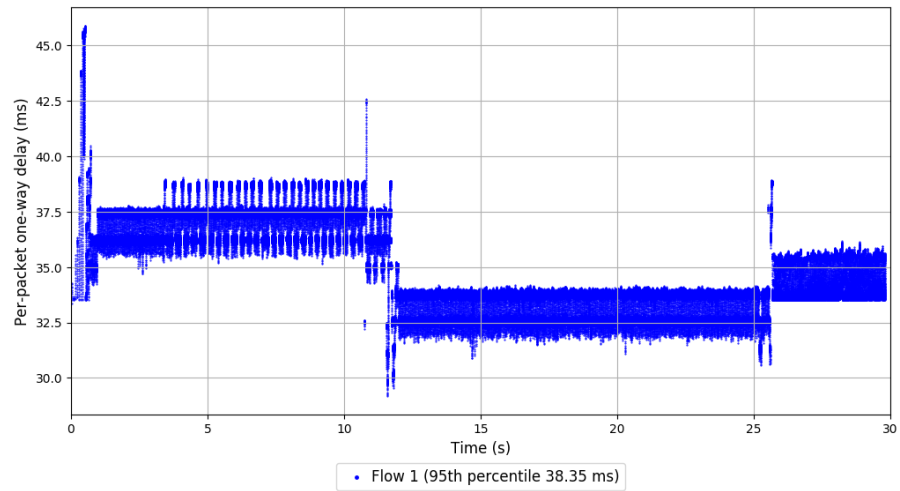
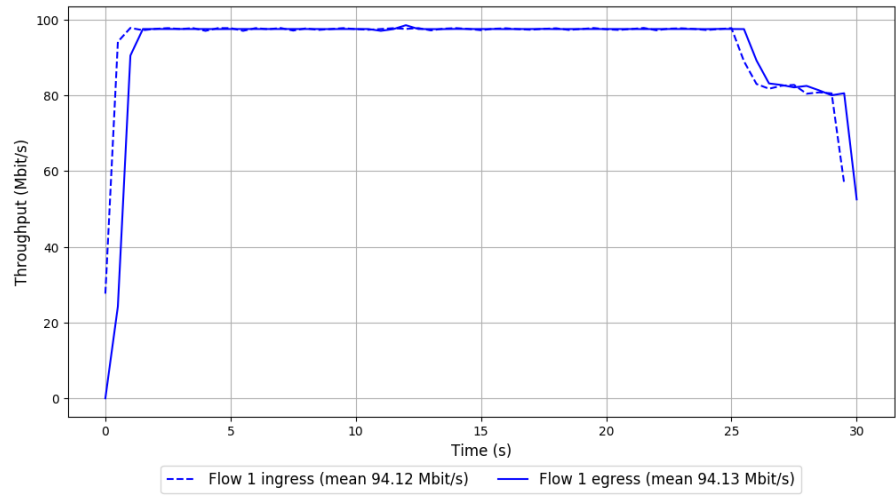


Run 4: Statistics of Indigo

Start at: 2018-06-19 03:04:11  
End at: 2018-06-19 03:04:41  
Local clock offset: 1.696 ms  
Remote clock offset: -1.885 ms

# Below is generated by plot.py at 2018-06-19 05:21:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.13 Mbit/s  
95th percentile per-packet one-way delay: 38.352 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 94.13 Mbit/s  
95th percentile per-packet one-way delay: 38.352 ms  
Loss rate: 0.19%

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



Run 5: Statistics of Indigo

Start at: 2018-06-19 03:25:04

End at: 2018-06-19 03:25:34

Local clock offset: 1.374 ms

Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2018-06-19 05:21:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 33.591 ms

Loss rate: 0.21%

-- Flow 1:

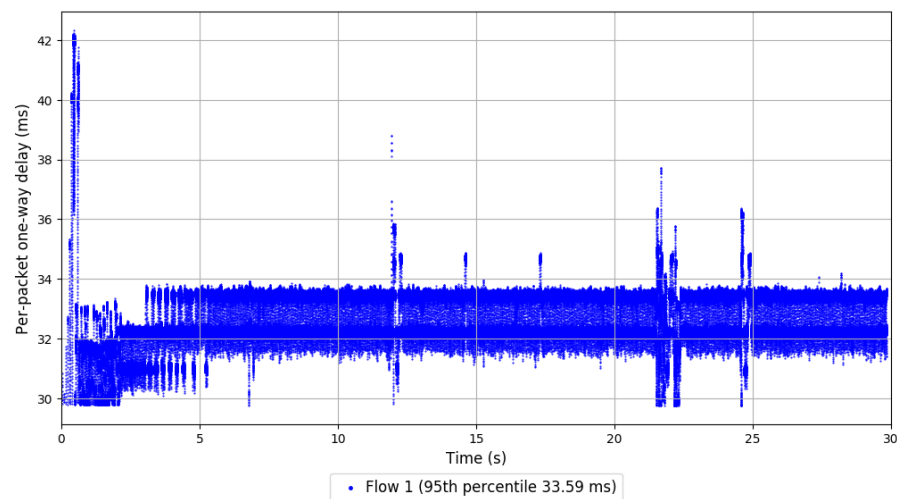
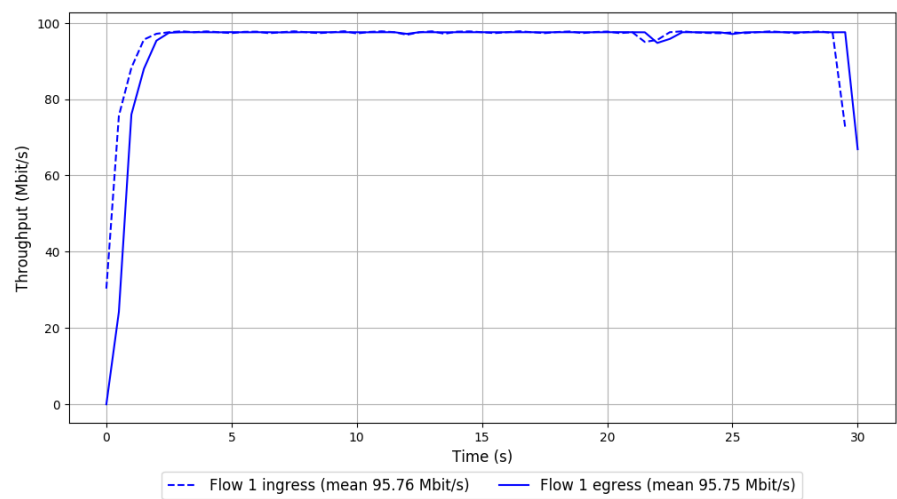
Average throughput: 95.75 Mbit/s

95th percentile per-packet one-way delay: 33.591 ms

Loss rate: 0.21%



Run 5: Report of Indigo — Data Link

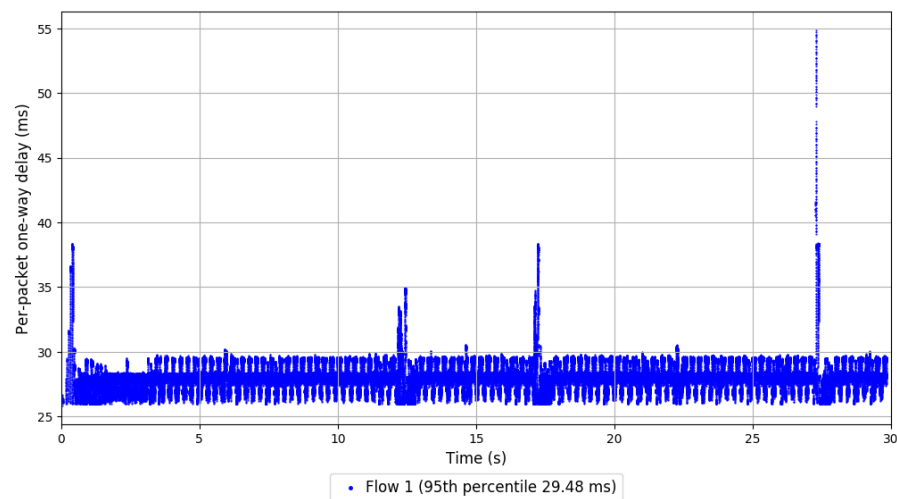
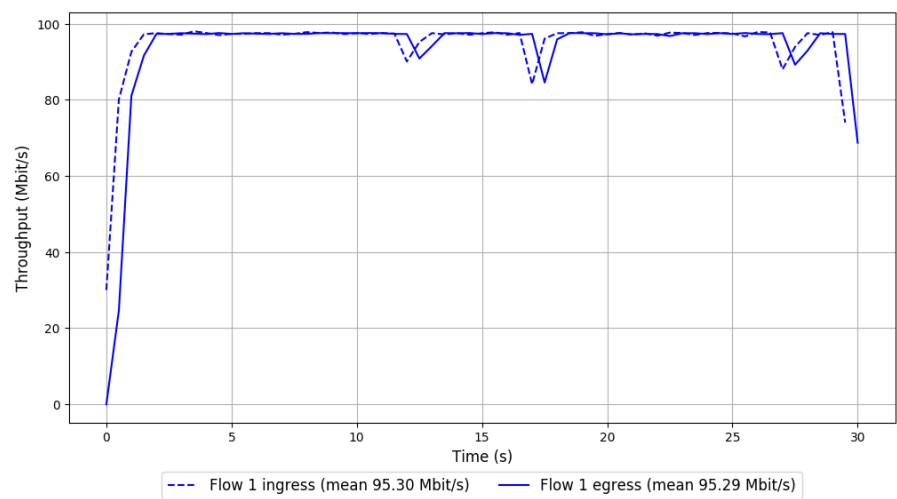


Run 6: Statistics of Indigo

Start at: 2018-06-19 03:45:58  
End at: 2018-06-19 03:46:28  
Local clock offset: -1.693 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-19 05:21:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.29 Mbit/s  
95th percentile per-packet one-way delay: 29.485 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 95.29 Mbit/s  
95th percentile per-packet one-way delay: 29.485 ms  
Loss rate: 0.20%

Run 6: Report of Indigo — Data Link

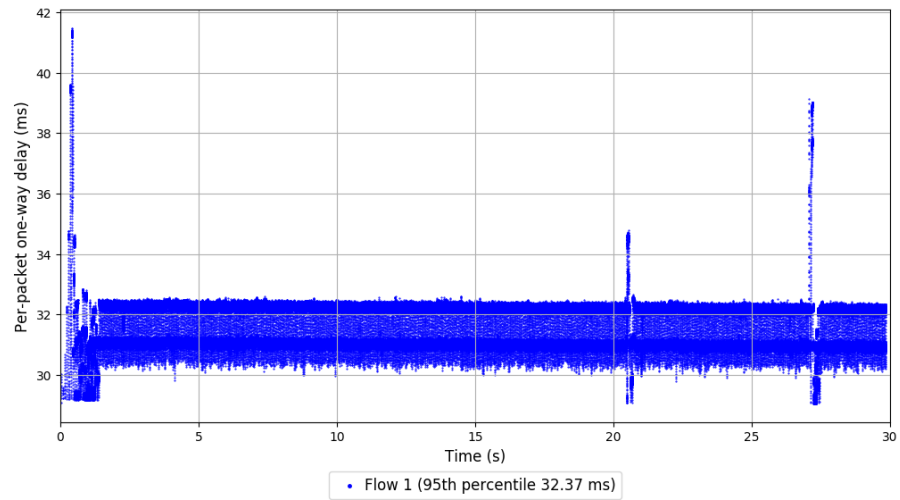
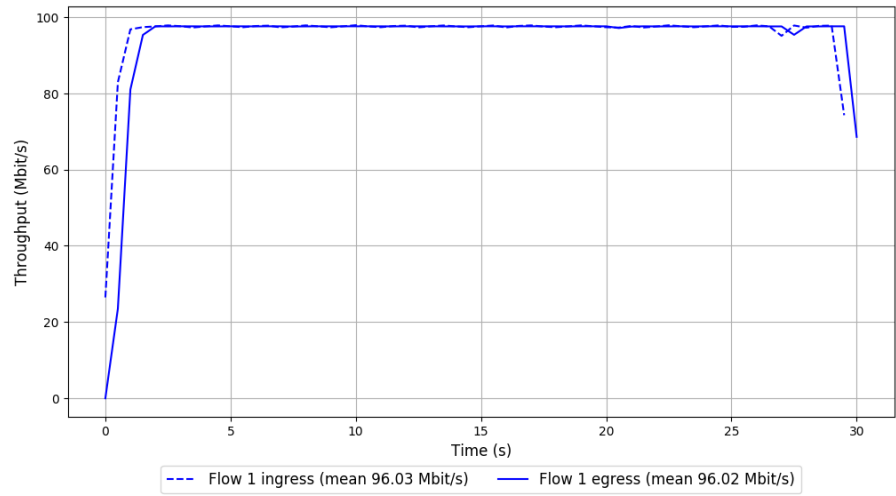


Run 7: Statistics of Indigo

Start at: 2018-06-19 04:06:51  
End at: 2018-06-19 04:07:21  
Local clock offset: -2.059 ms  
Remote clock offset: -0.822 ms

# Below is generated by plot.py at 2018-06-19 05:22:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.02 Mbit/s  
95th percentile per-packet one-way delay: 32.370 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 96.02 Mbit/s  
95th percentile per-packet one-way delay: 32.370 ms  
Loss rate: 0.21%

## Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-19 04:28:01

End at: 2018-06-19 04:28:31

Local clock offset: 0.256 ms

Remote clock offset: -3.84 ms

# Below is generated by plot.py at 2018-06-19 05:22:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 31.858 ms

Loss rate: 0.20%

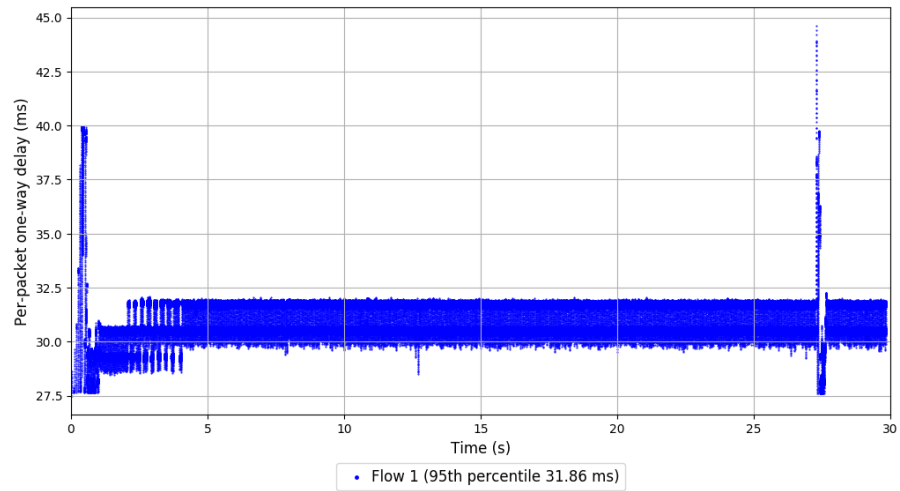
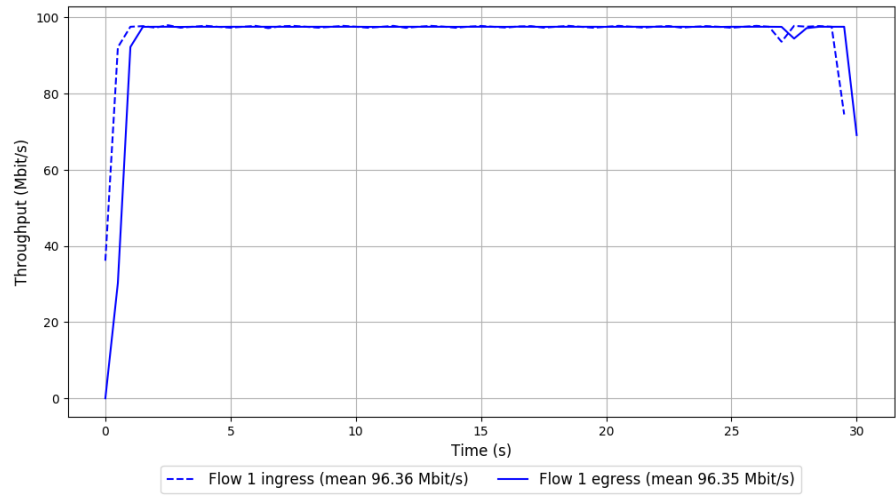
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 31.858 ms

Loss rate: 0.20%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-19 04:48:57

End at: 2018-06-19 04:49:27

Local clock offset: 0.694 ms

Remote clock offset: -0.65 ms

# Below is generated by plot.py at 2018-06-19 05:22:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 36.634 ms

Loss rate: 0.22%

-- Flow 1:

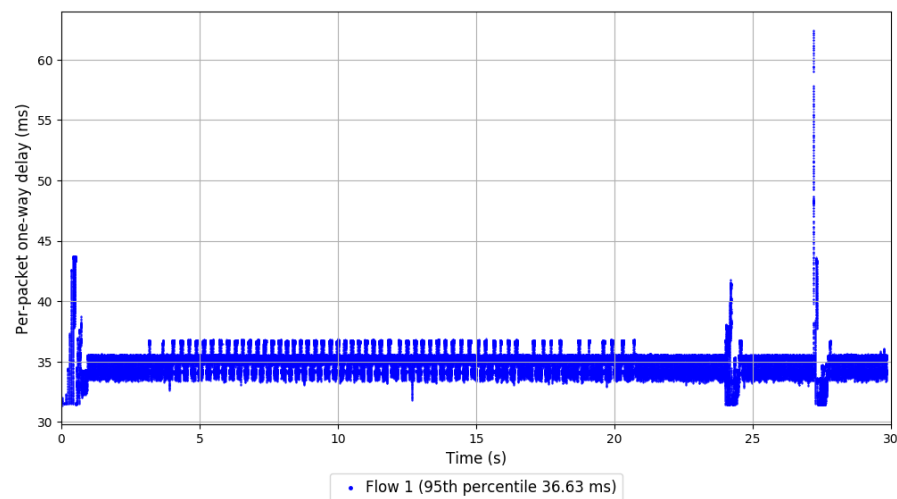
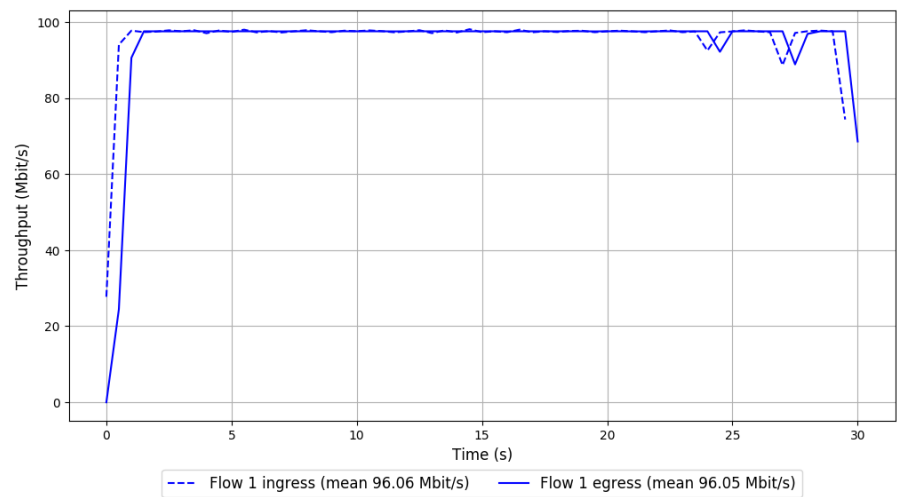
Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 36.634 ms

Loss rate: 0.22%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-19 05:09:53

End at: 2018-06-19 05:10:23

Local clock offset: 0.55 ms

Remote clock offset: -0.535 ms

# Below is generated by plot.py at 2018-06-19 05:22:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 34.282 ms

Loss rate: 0.21%

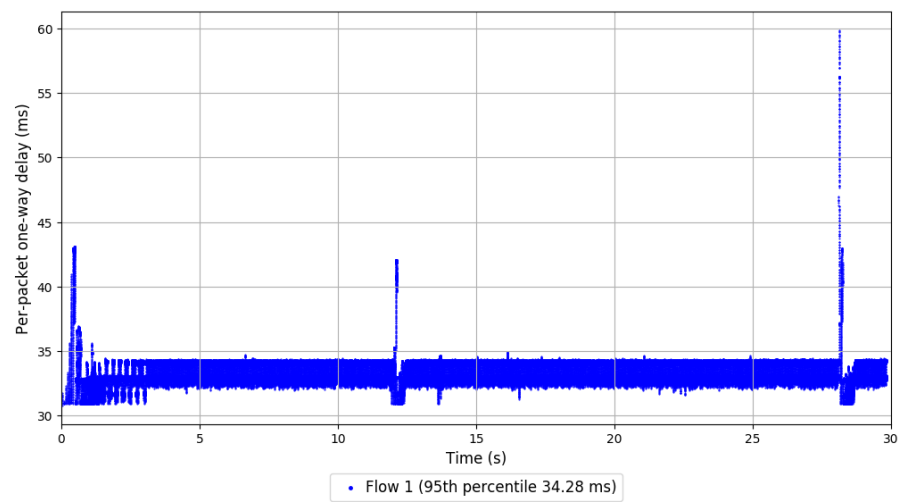
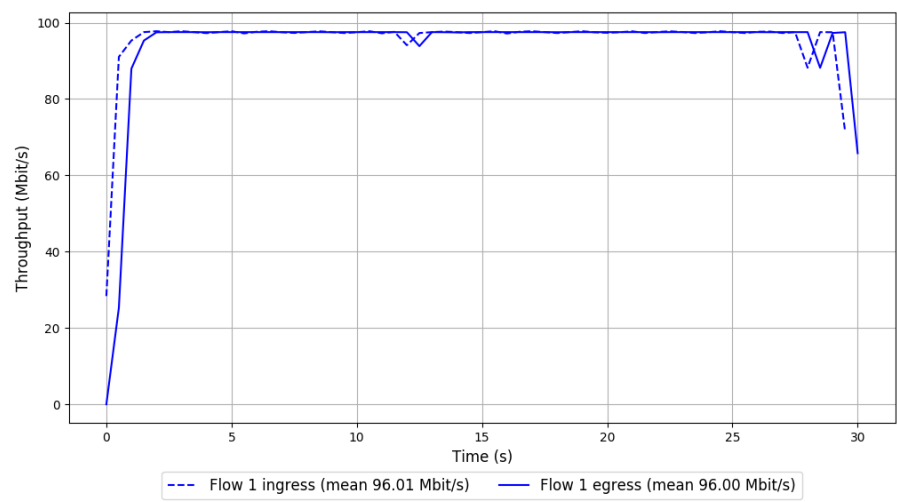
-- Flow 1:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 34.282 ms

Loss rate: 0.21%

Run 10: Report of Indigo — Data Link

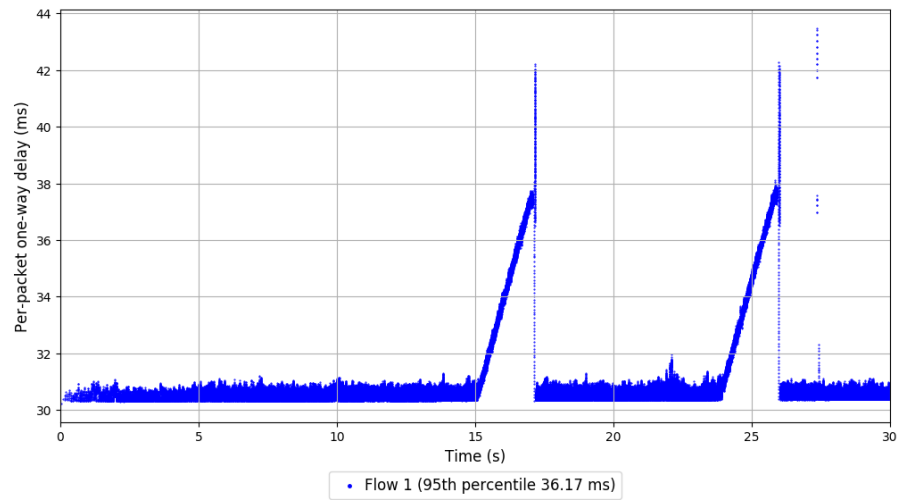
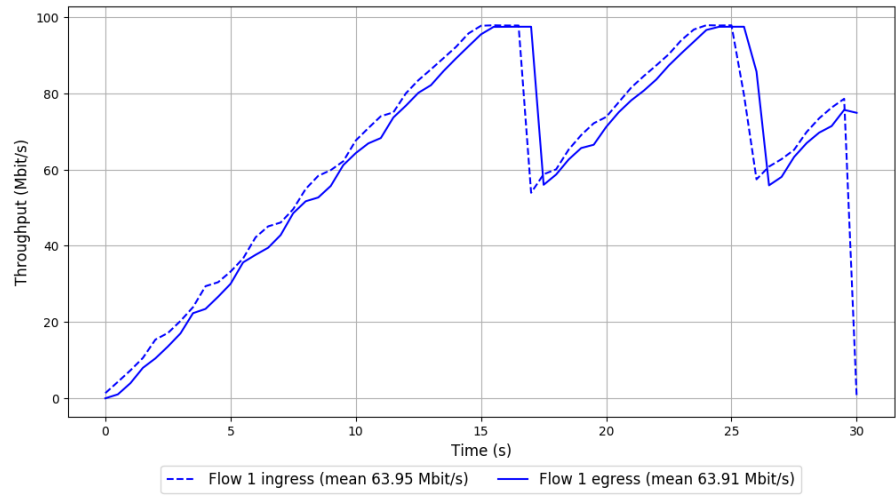


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-19 01:46:55
End at: 2018-06-19 01:47:25
Local clock offset: -2.285 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-06-19 05:22:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.91 Mbit/s
95th percentile per-packet one-way delay: 36.172 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 63.91 Mbit/s
95th percentile per-packet one-way delay: 36.172 ms
Loss rate: 0.26%
```

# Run 1: Report of LEDBAT — Data Link

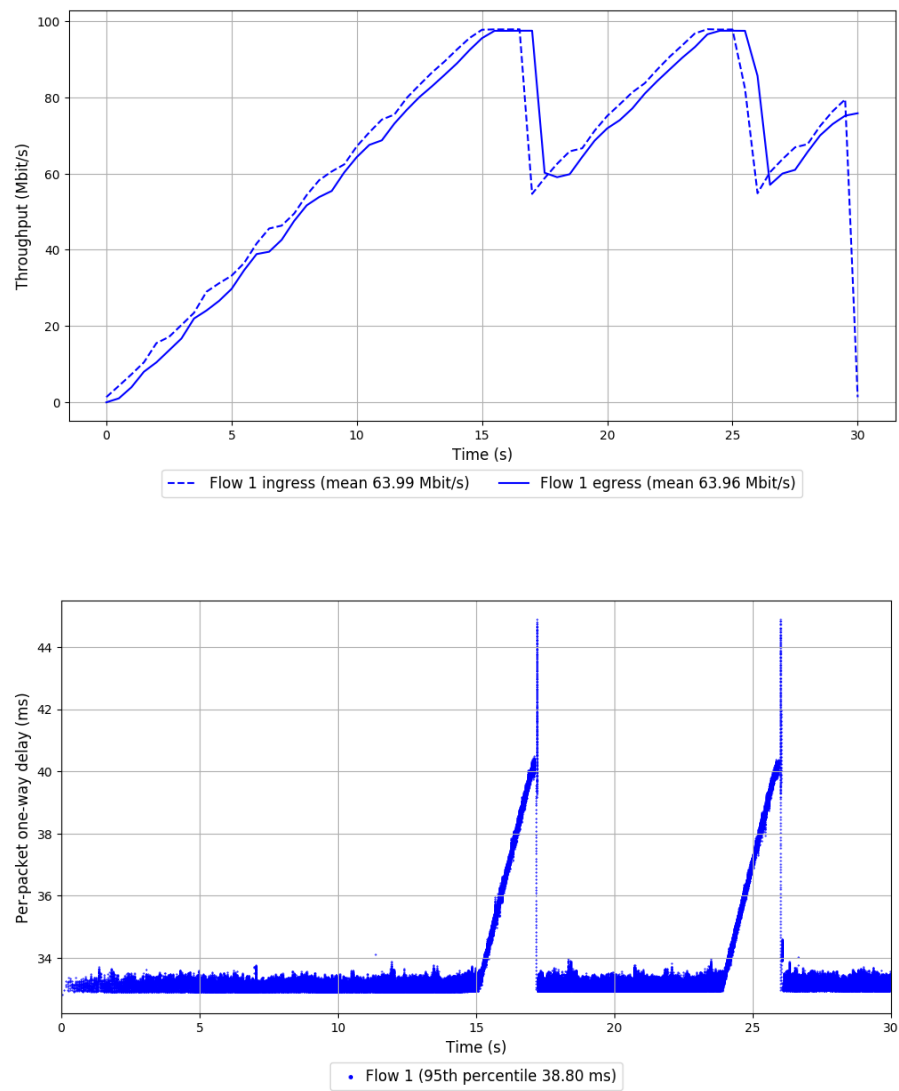


Run 2: Statistics of LEDBAT

Start at: 2018-06-19 02:07:51  
End at: 2018-06-19 02:08:21  
Local clock offset: -3.674 ms  
Remote clock offset: -1.555 ms

# Below is generated by plot.py at 2018-06-19 05:22:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.96 Mbit/s  
95th percentile per-packet one-way delay: 38.799 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 63.96 Mbit/s  
95th percentile per-packet one-way delay: 38.799 ms  
Loss rate: 0.25%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-19 02:28:46

End at: 2018-06-19 02:29:16

Local clock offset: -4.692 ms

Remote clock offset: 1.808 ms

# Below is generated by plot.py at 2018-06-19 05:22:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.94 Mbit/s

95th percentile per-packet one-way delay: 36.468 ms

Loss rate: 0.25%

-- Flow 1:

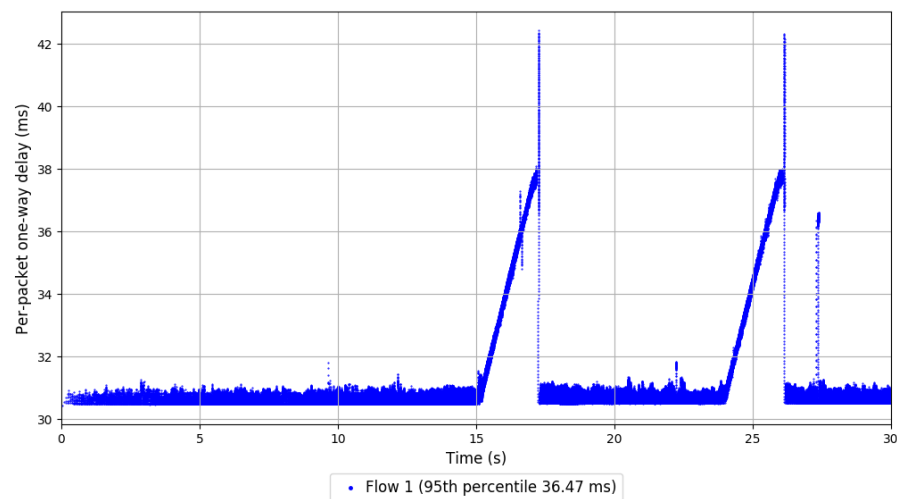
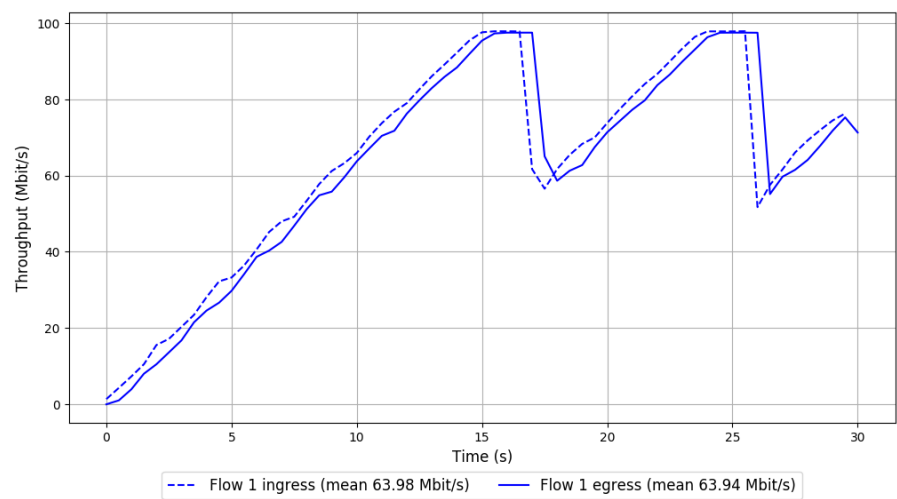
Average throughput: 63.94 Mbit/s

95th percentile per-packet one-way delay: 36.468 ms

Loss rate: 0.25%



Run 3: Report of LEDBAT — Data Link

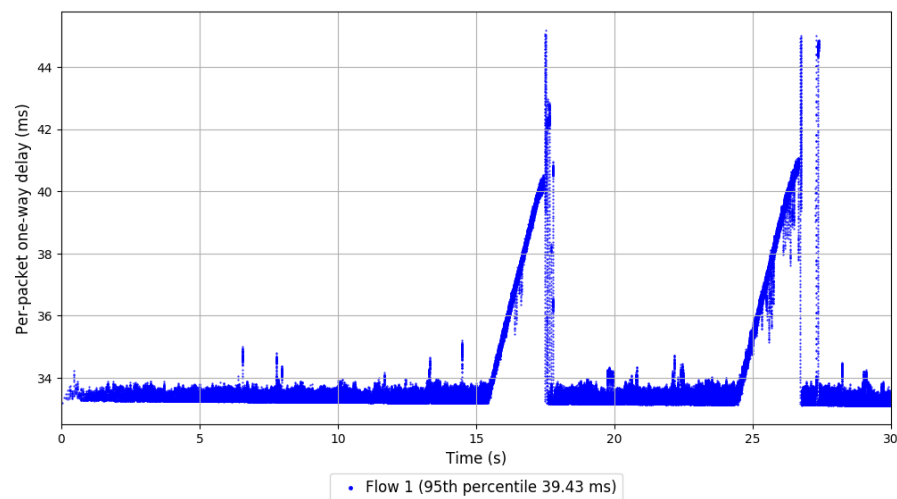
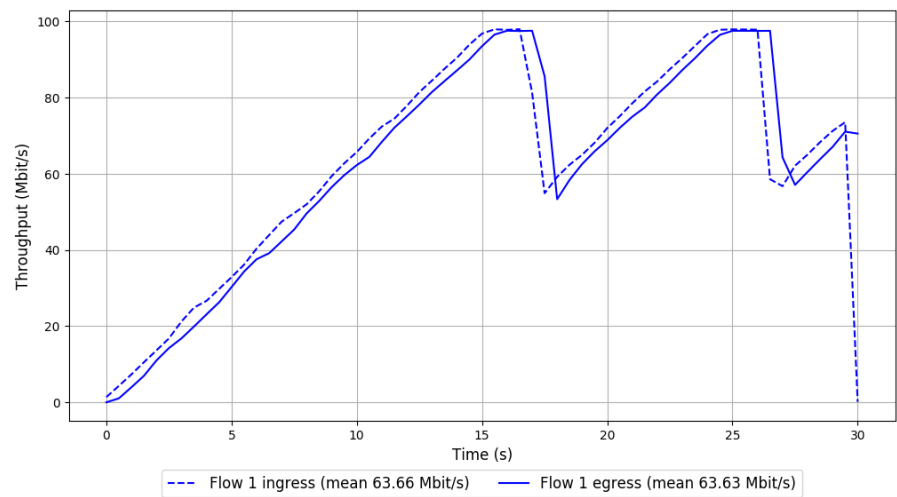


Run 4: Statistics of LEDBAT

Start at: 2018-06-19 02:49:42  
End at: 2018-06-19 02:50:12  
Local clock offset: 0.301 ms  
Remote clock offset: -0.501 ms

# Below is generated by plot.py at 2018-06-19 05:22:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.63 Mbit/s  
95th percentile per-packet one-way delay: 39.430 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 63.63 Mbit/s  
95th percentile per-packet one-way delay: 39.430 ms  
Loss rate: 0.24%

Run 4: Report of LEDBAT — Data Link

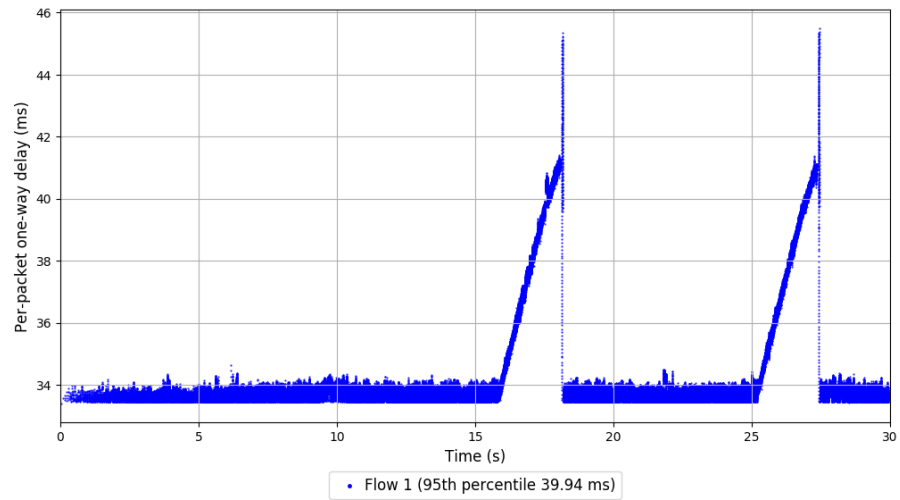
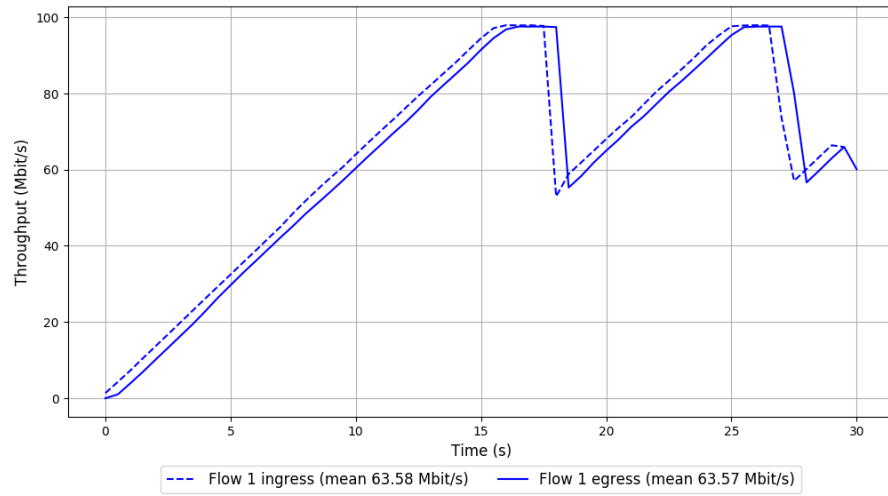


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 03:10:36  
End at: 2018-06-19 03:11:06  
Local clock offset: 1.198 ms  
Remote clock offset: -2.027 ms

# Below is generated by plot.py at 2018-06-19 05:22:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.57 Mbit/s  
95th percentile per-packet one-way delay: 39.939 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 63.57 Mbit/s  
95th percentile per-packet one-way delay: 39.939 ms  
Loss rate: 0.23%

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



Run 6: Statistics of LEDBAT

Start at: 2018-06-19 03:31:29

End at: 2018-06-19 03:31:59

Local clock offset: 1.568 ms

Remote clock offset: -2.4 ms

# Below is generated by plot.py at 2018-06-19 05:22:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 38.334 ms

Loss rate: 0.26%

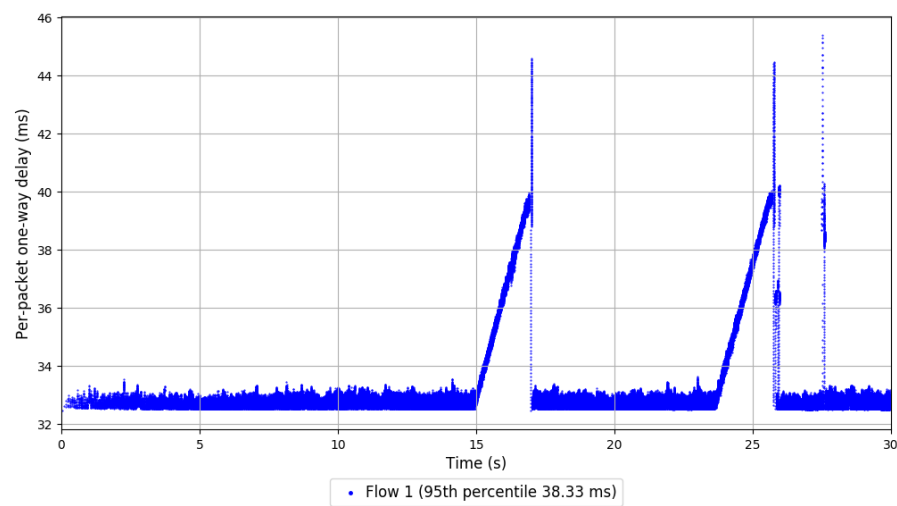
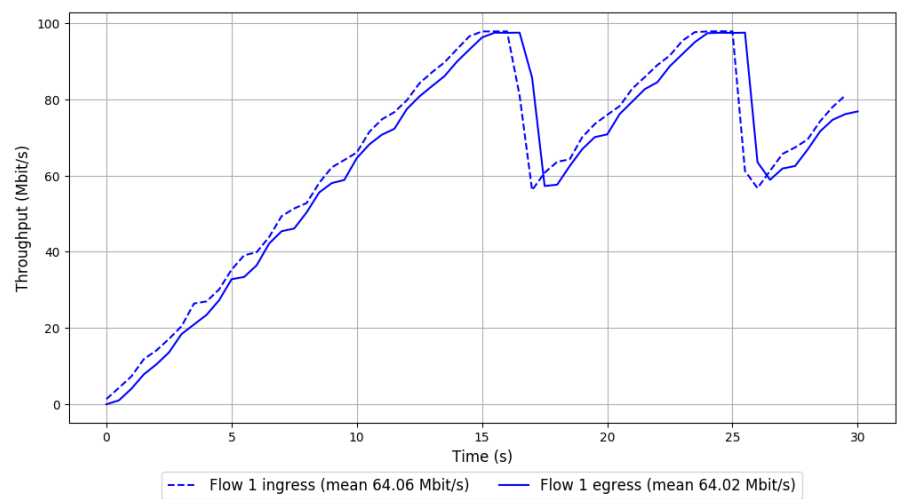
-- Flow 1:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 38.334 ms

Loss rate: 0.26%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-19 03:52:23

End at: 2018-06-19 03:52:53

Local clock offset: -2.325 ms

Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2018-06-19 05:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.93 Mbit/s

95th percentile per-packet one-way delay: 36.115 ms

Loss rate: 0.26%

-- Flow 1:

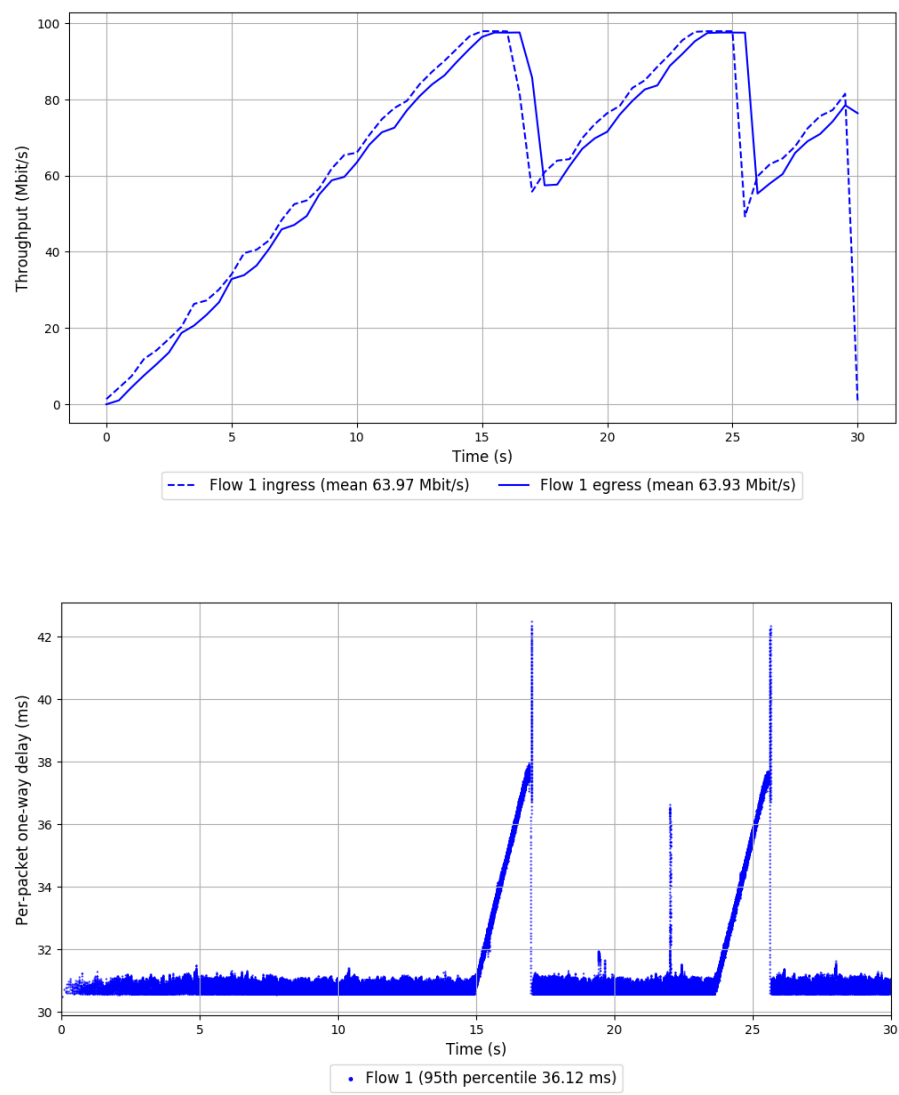
Average throughput: 63.93 Mbit/s

95th percentile per-packet one-way delay: 36.115 ms

Loss rate: 0.26%



Run 7: Report of LEDBAT — Data Link

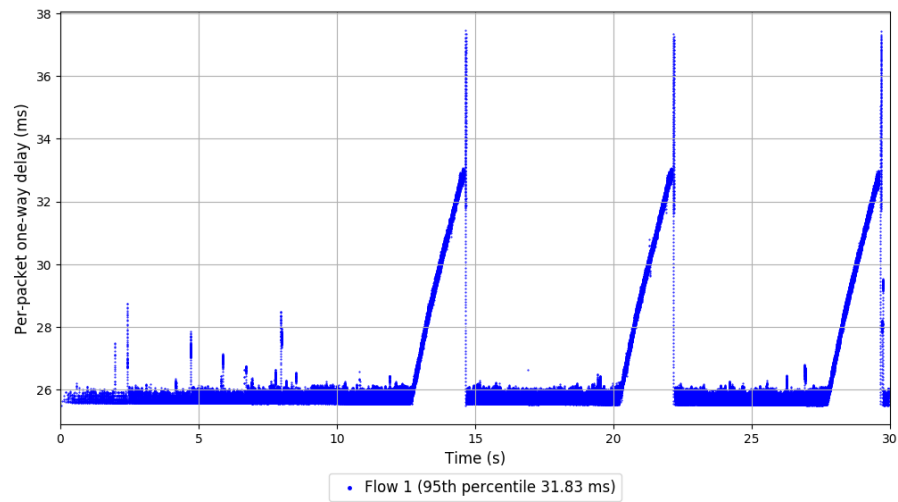
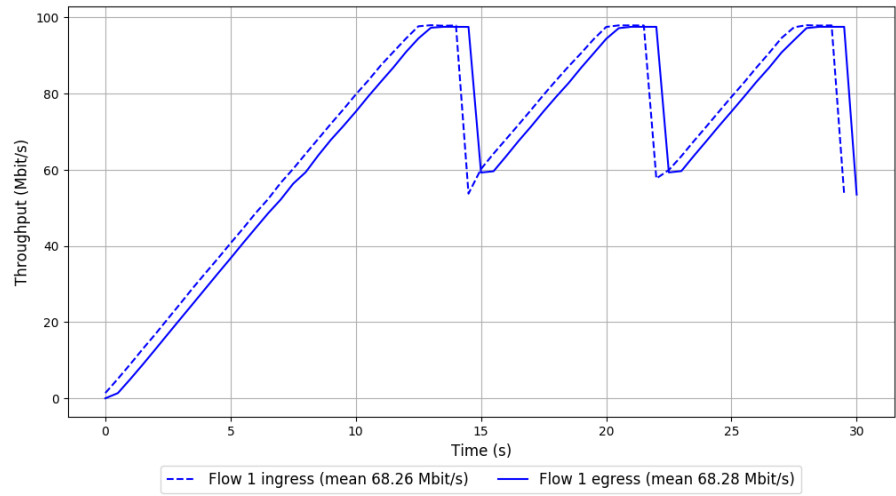


Run 8: Statistics of LEDBAT

Start at: 2018-06-19 04:13:16  
End at: 2018-06-19 04:13:46  
Local clock offset: -0.856 ms  
Remote clock offset: -1.432 ms

# Below is generated by plot.py at 2018-06-19 05:22:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.28 Mbit/s  
95th percentile per-packet one-way delay: 31.829 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 68.28 Mbit/s  
95th percentile per-packet one-way delay: 31.829 ms  
Loss rate: 0.16%

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

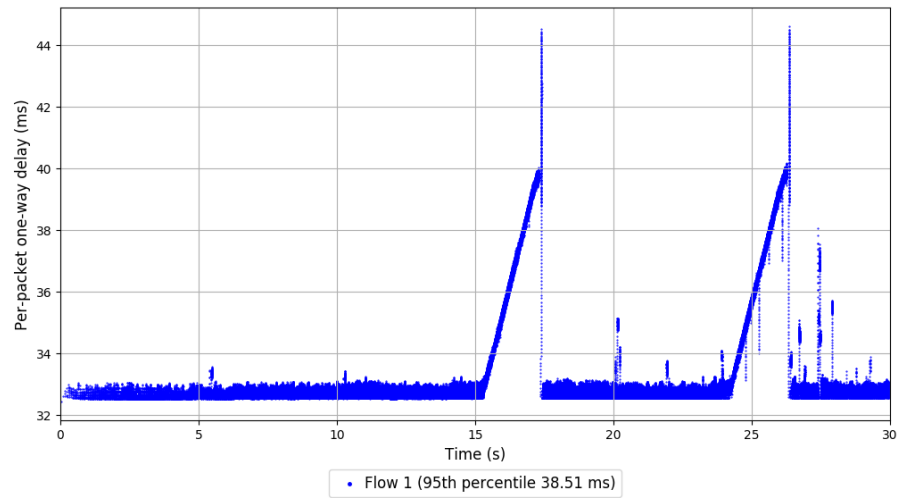
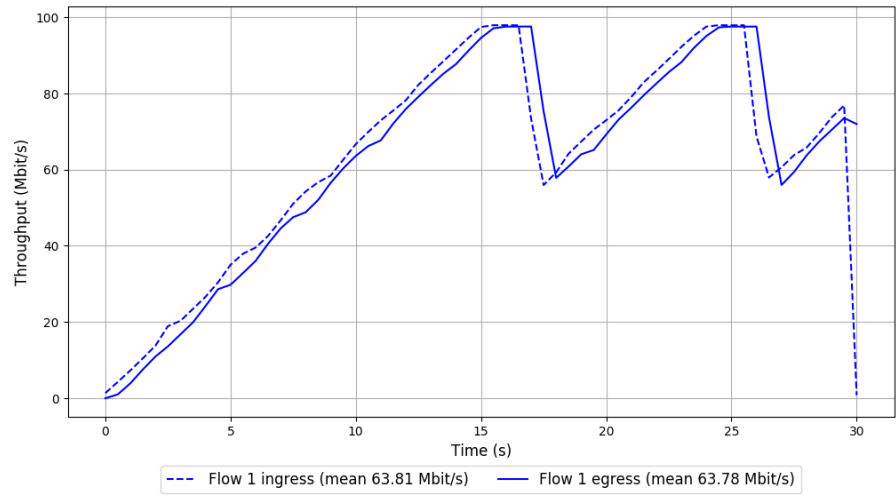


Run 9: Statistics of LEDBAT

Start at: 2018-06-19 04:34:27  
End at: 2018-06-19 04:34:57  
Local clock offset: 0.48 ms  
Remote clock offset: -3.364 ms

# Below is generated by plot.py at 2018-06-19 05:22:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.78 Mbit/s  
95th percentile per-packet one-way delay: 38.511 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 63.78 Mbit/s  
95th percentile per-packet one-way delay: 38.511 ms  
Loss rate: 0.25%

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

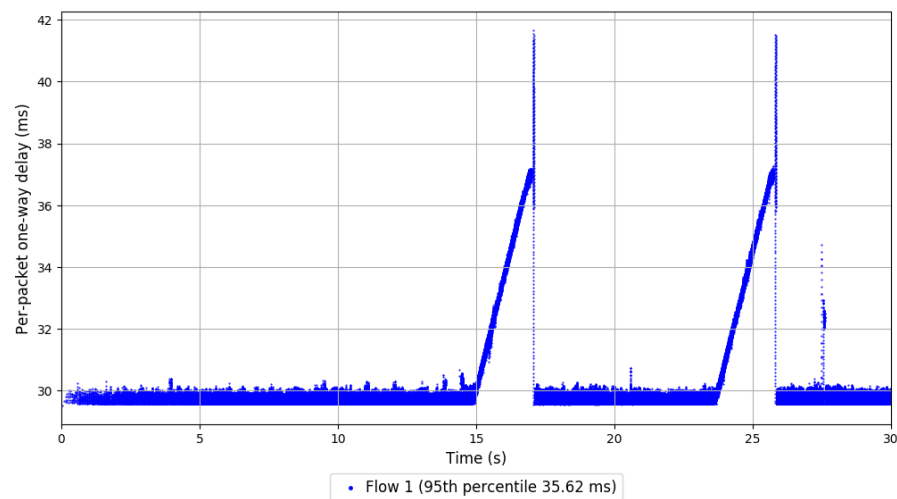
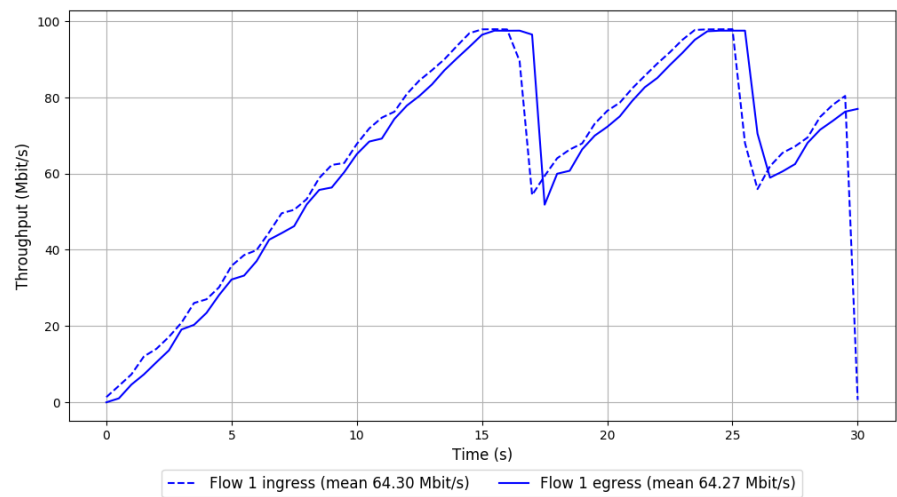


Run 10: Statistics of LEDBAT

Start at: 2018-06-19 04:55:23  
End at: 2018-06-19 04:55:53  
Local clock offset: 0.734 ms  
Remote clock offset: -0.477 ms

# Below is generated by plot.py at 2018-06-19 05:22:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 64.27 Mbit/s  
95th percentile per-packet one-way delay: 35.623 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 64.27 Mbit/s  
95th percentile per-packet one-way delay: 35.623 ms  
Loss rate: 0.26%

Run 10: Report of LEDBAT — Data Link



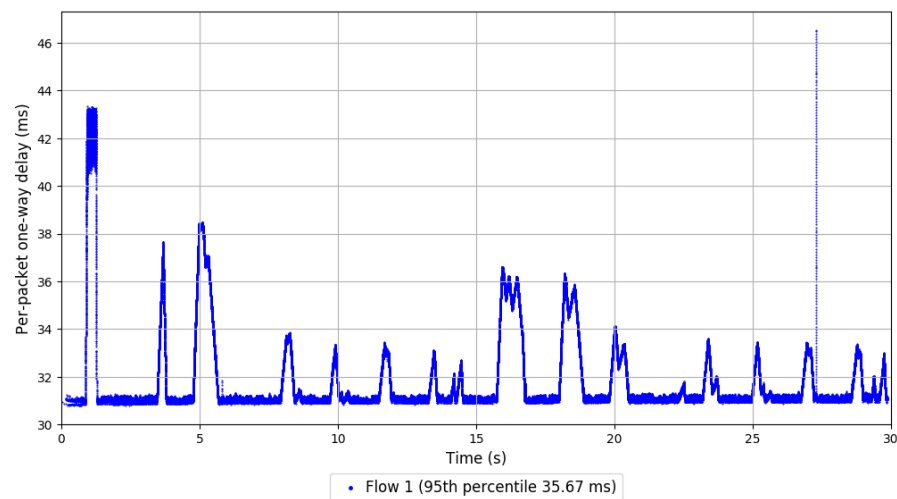
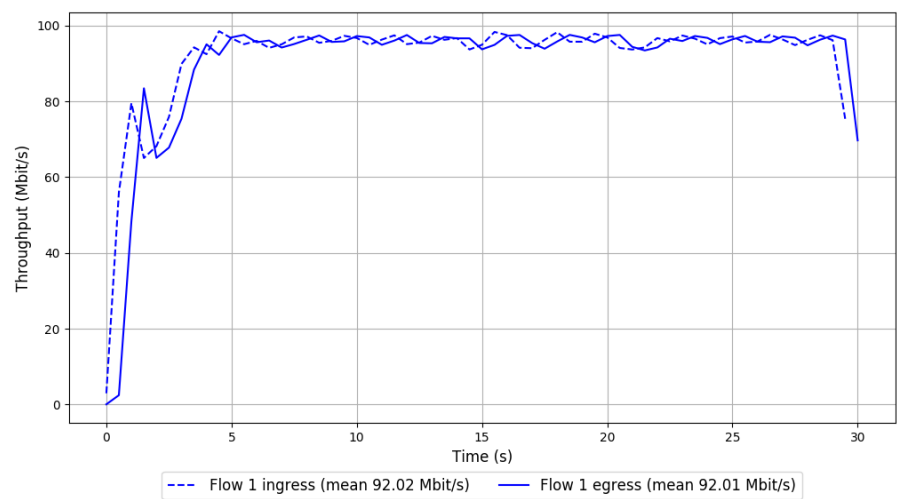
```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 01:45:38
End at: 2018-06-19 01:46:08
Local clock offset: -2.128 ms
Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2018-06-19 05:23:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 35.669 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 35.669 ms
Loss rate: 0.21%
```



Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 02:06:34

End at: 2018-06-19 02:07:04

Local clock offset: -3.692 ms

Remote clock offset: -1.596 ms

# Below is generated by plot.py at 2018-06-19 05:23:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 37.896 ms

Loss rate: 0.23%

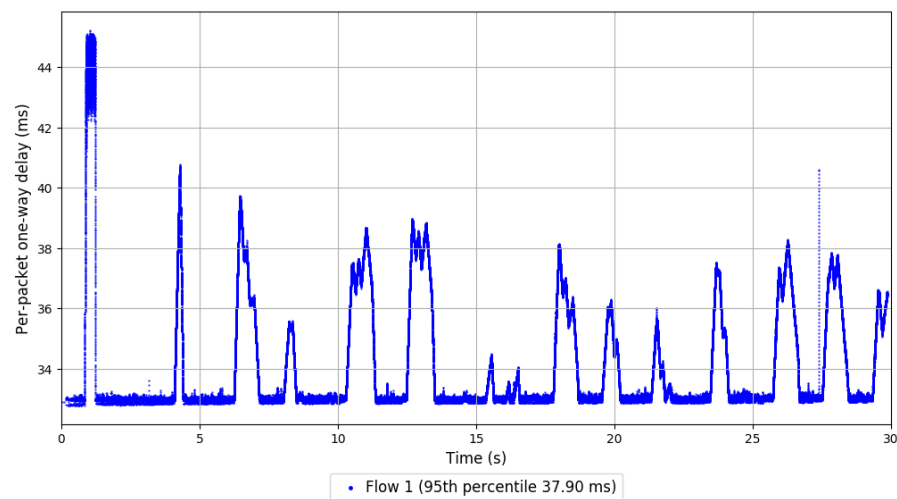
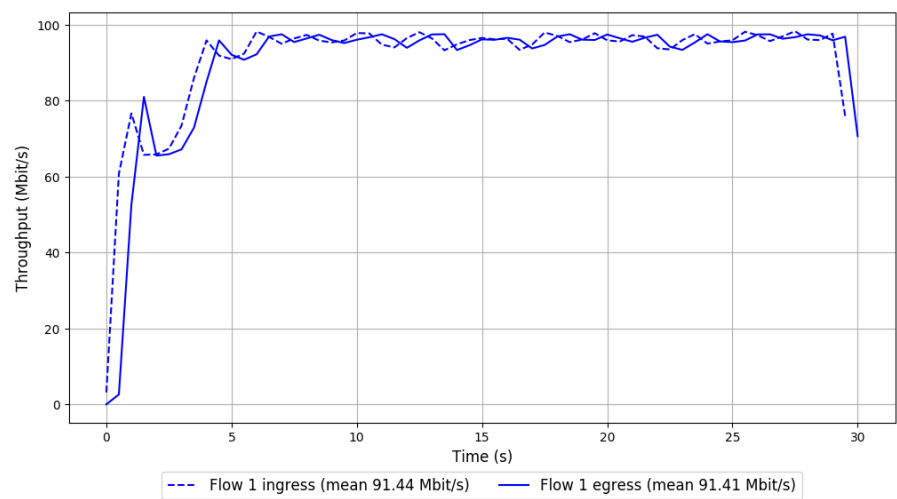
-- Flow 1:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 37.896 ms

Loss rate: 0.23%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 02:27:29

End at: 2018-06-19 02:27:59

Local clock offset: -4.619 ms

Remote clock offset: -0.79 ms

# Below is generated by plot.py at 2018-06-19 05:23:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.55 Mbit/s

95th percentile per-packet one-way delay: 33.640 ms

Loss rate: 0.22%

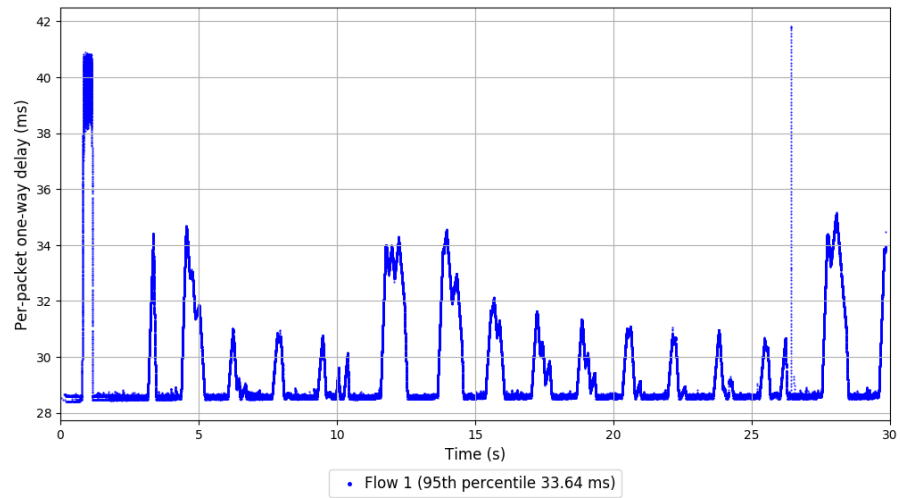
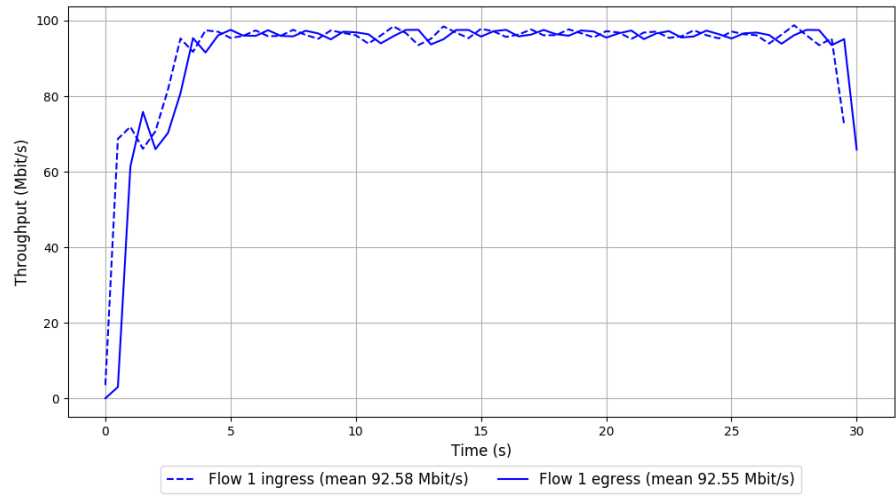
-- Flow 1:

Average throughput: 92.55 Mbit/s

95th percentile per-packet one-way delay: 33.640 ms

Loss rate: 0.22%

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



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 02:48:25

End at: 2018-06-19 02:48:55

Local clock offset: 0.111 ms

Remote clock offset: -0.326 ms

# Below is generated by plot.py at 2018-06-19 05:23:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.54 Mbit/s

95th percentile per-packet one-way delay: 40.700 ms

Loss rate: 0.26%

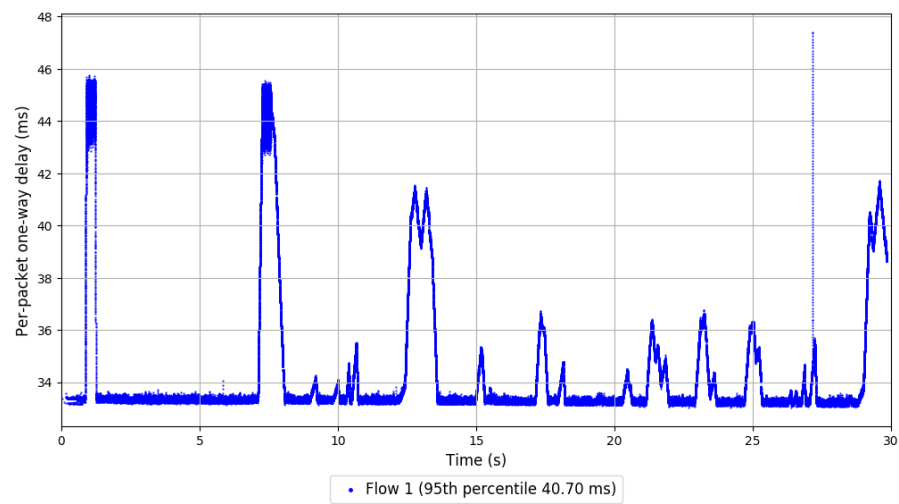
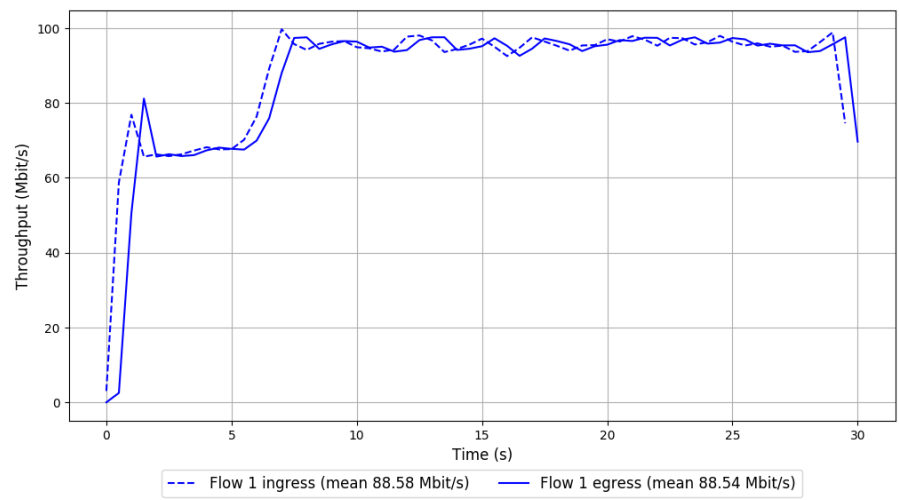
-- Flow 1:

Average throughput: 88.54 Mbit/s

95th percentile per-packet one-way delay: 40.700 ms

Loss rate: 0.26%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 03:09:18

End at: 2018-06-19 03:09:48

Local clock offset: 1.34 ms

Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-06-19 05:23:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 34.867 ms

Loss rate: 0.21%

-- Flow 1:

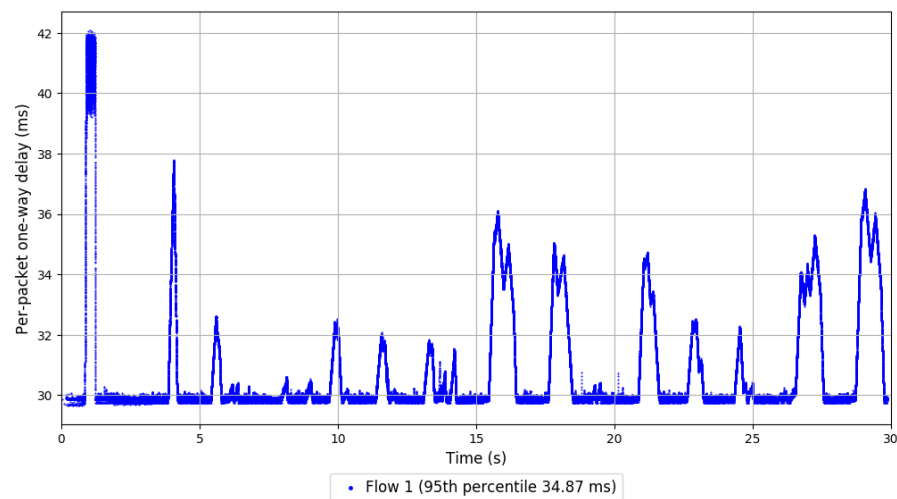
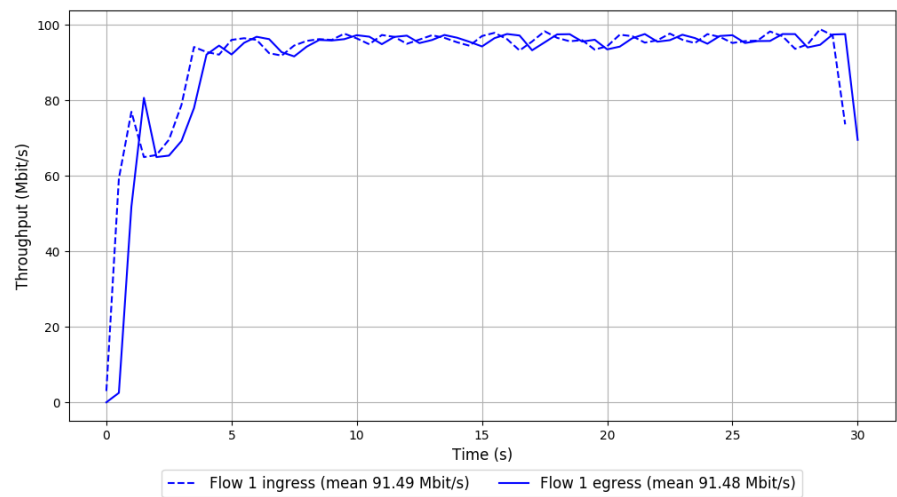
Average throughput: 91.48 Mbit/s

95th percentile per-packet one-way delay: 34.867 ms

Loss rate: 0.21%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 03:30:11

End at: 2018-06-19 03:30:41

Local clock offset: 1.446 ms

Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2018-06-19 05:24:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 35.300 ms

Loss rate: 0.23%

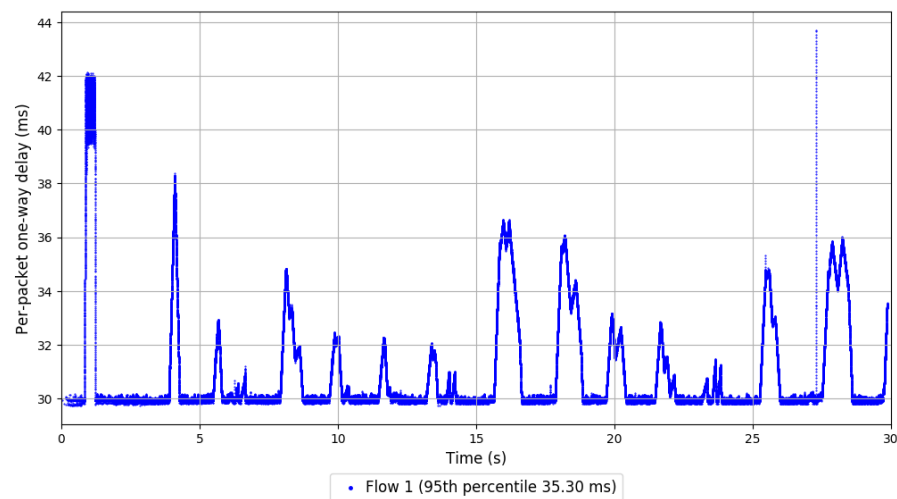
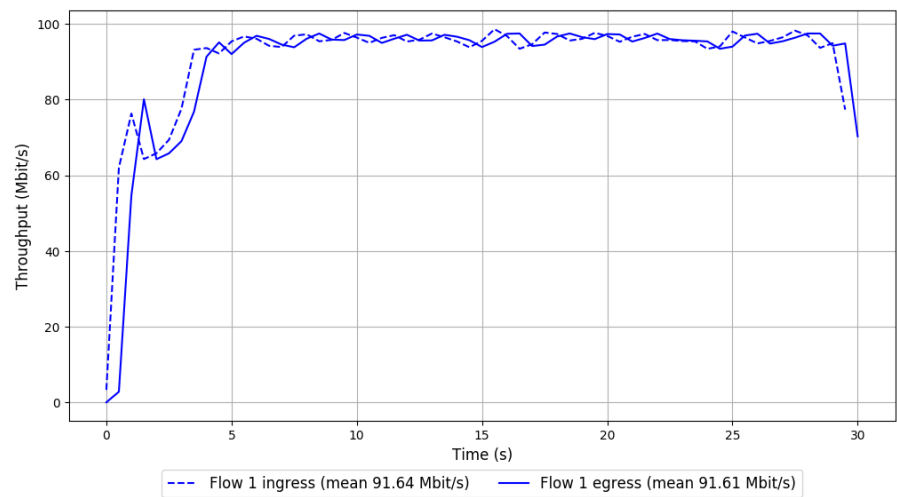
-- Flow 1:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 35.300 ms

Loss rate: 0.23%

Run 6: Report of PCC-Allegro — Data Link

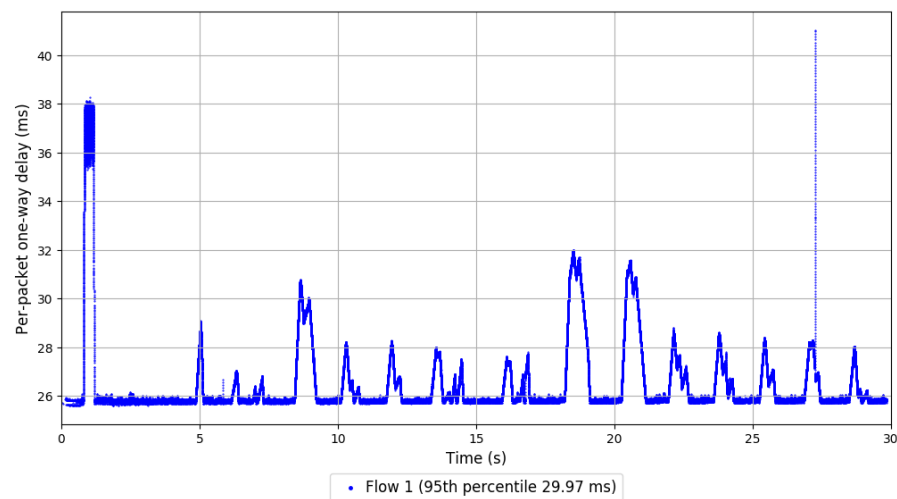
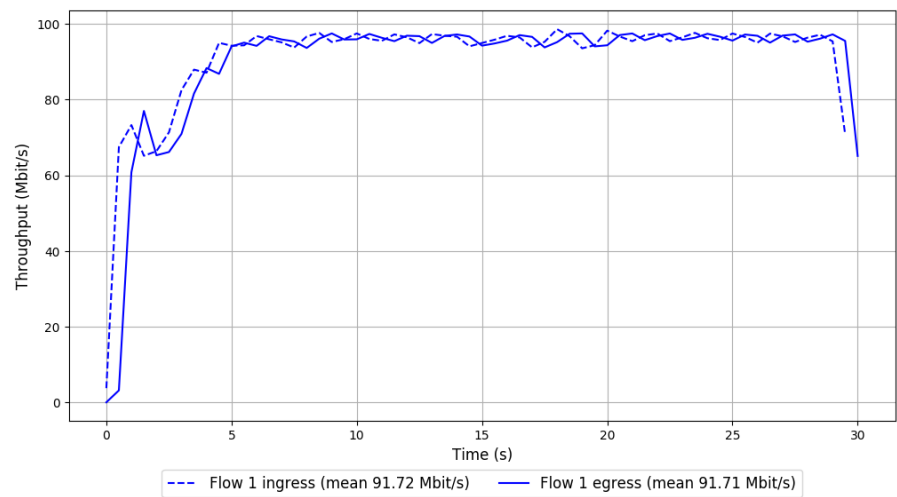


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 03:51:06  
End at: 2018-06-19 03:51:36  
Local clock offset: -2.342 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-06-19 05:24:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.71 Mbit/s  
95th percentile per-packet one-way delay: 29.971 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 91.71 Mbit/s  
95th percentile per-packet one-way delay: 29.971 ms  
Loss rate: 0.20%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 04:11:58

End at: 2018-06-19 04:12:28

Local clock offset: -1.07 ms

Remote clock offset: -3.542 ms

# Below is generated by plot.py at 2018-06-19 05:24:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 32.037 ms

Loss rate: 0.23%

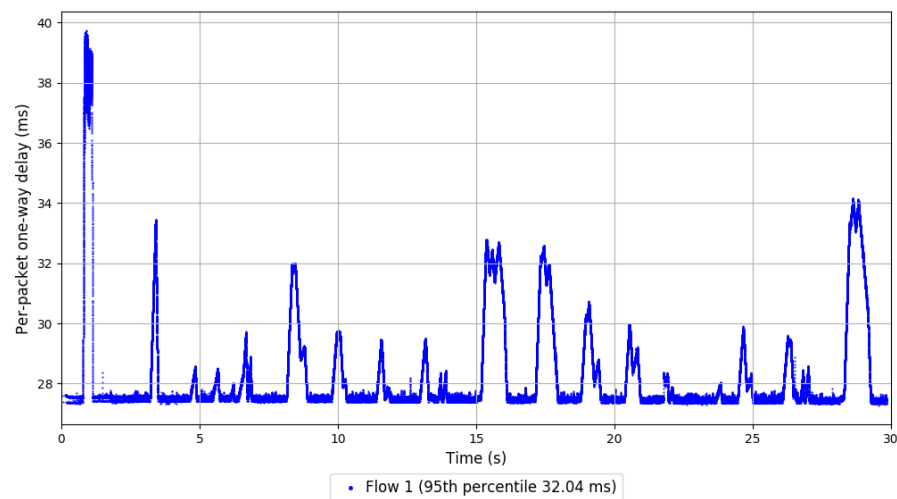
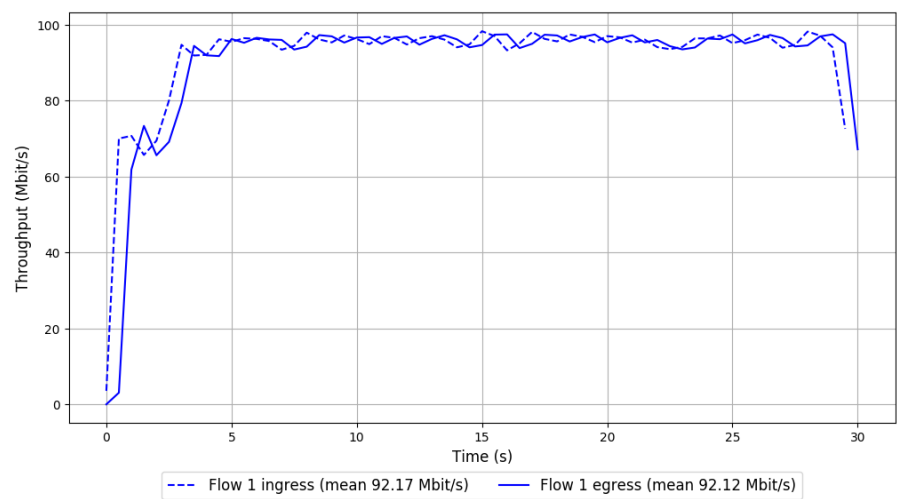
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 32.037 ms

Loss rate: 0.23%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 04:33:09

End at: 2018-06-19 04:33:39

Local clock offset: 0.552 ms

Remote clock offset: -1.41 ms

# Below is generated by plot.py at 2018-06-19 05:24:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.76 Mbit/s

95th percentile per-packet one-way delay: 36.229 ms

Loss rate: 0.22%

-- Flow 1:

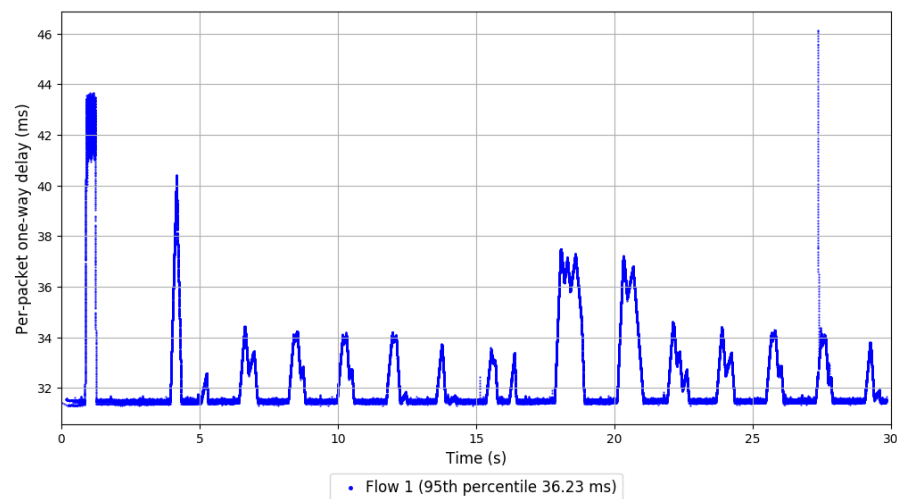
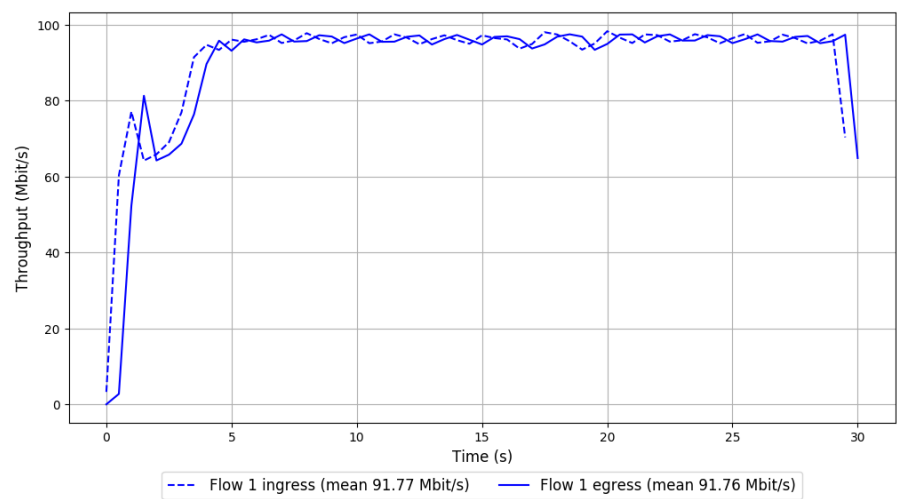
Average throughput: 91.76 Mbit/s

95th percentile per-packet one-way delay: 36.229 ms

Loss rate: 0.22%



Run 9: Report of PCC-Allegro — Data Link

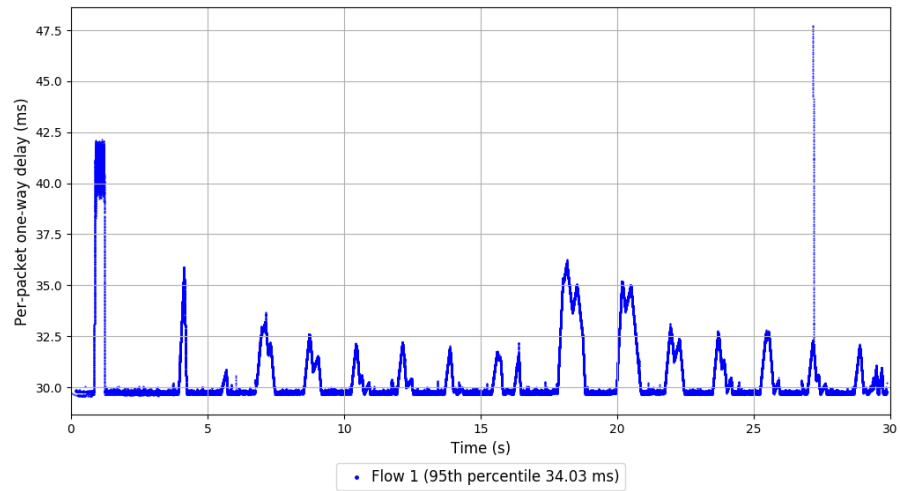
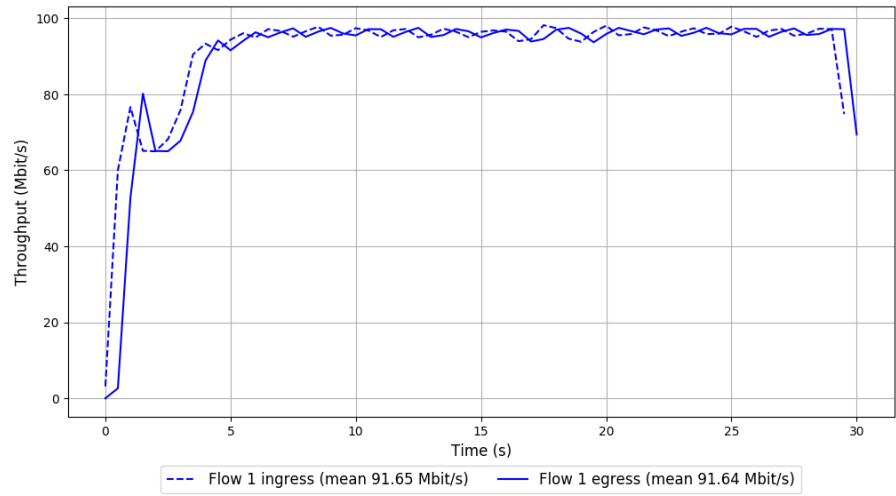


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 04:54:05  
End at: 2018-06-19 04:54:35  
Local clock offset: 0.798 ms  
Remote clock offset: -0.614 ms

# Below is generated by plot.py at 2018-06-19 05:24:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.64 Mbit/s  
95th percentile per-packet one-way delay: 34.033 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 91.64 Mbit/s  
95th percentile per-packet one-way delay: 34.033 ms  
Loss rate: 0.21%

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

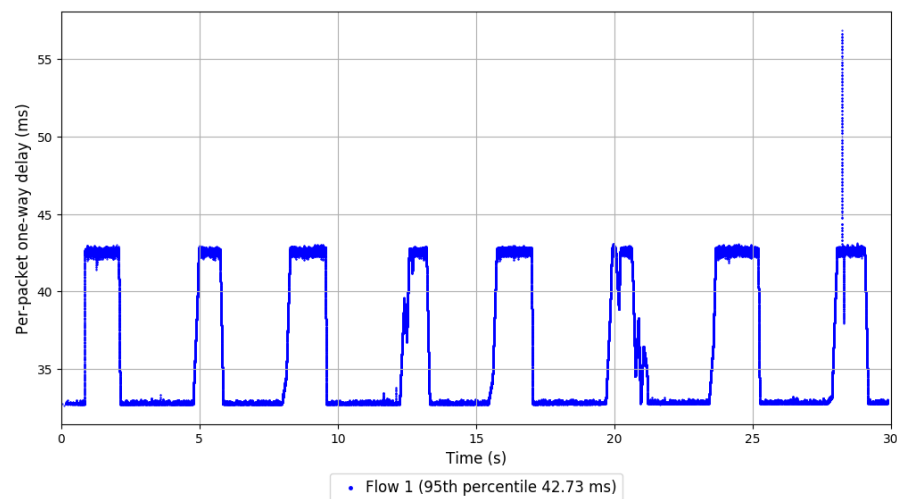
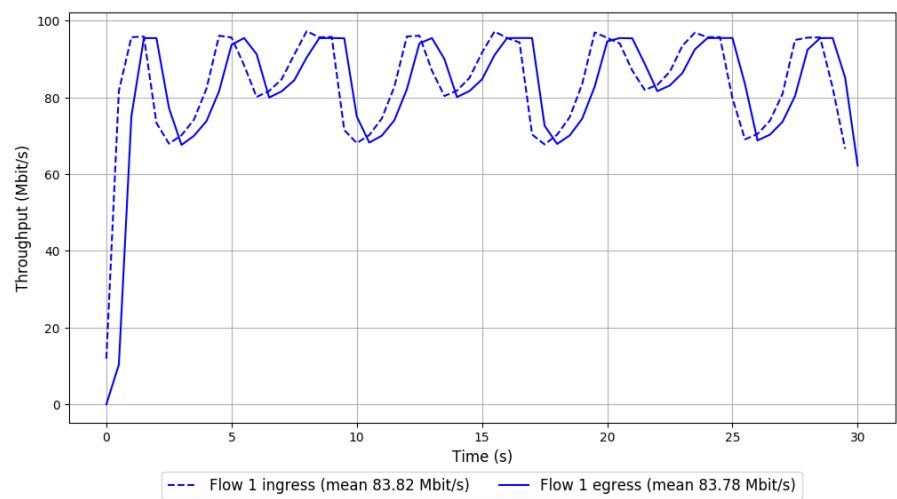


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 01:49:33
End at: 2018-06-19 01:50:03
Local clock offset: -2.571 ms
Remote clock offset: -2.239 ms

# Below is generated by plot.py at 2018-06-19 05:25:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 42.730 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 42.730 ms
Loss rate: 0.25%
```

Run 1: Report of PCC-Expr — Data Link

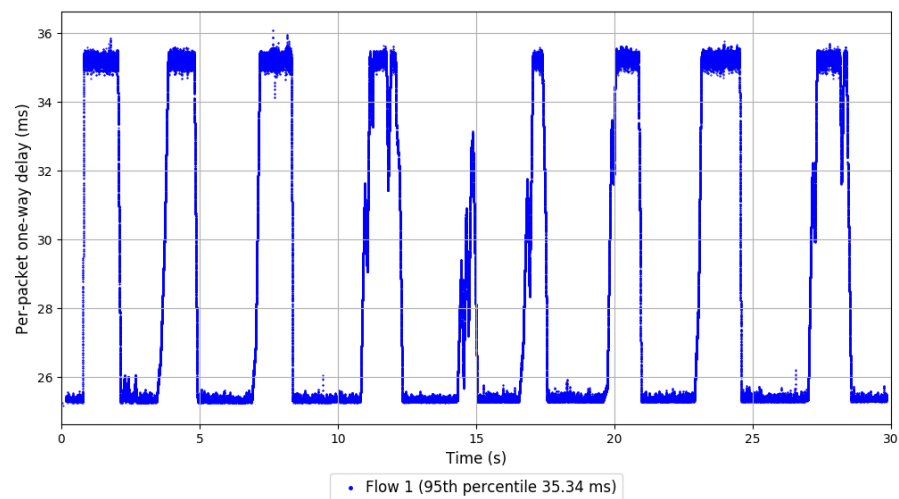
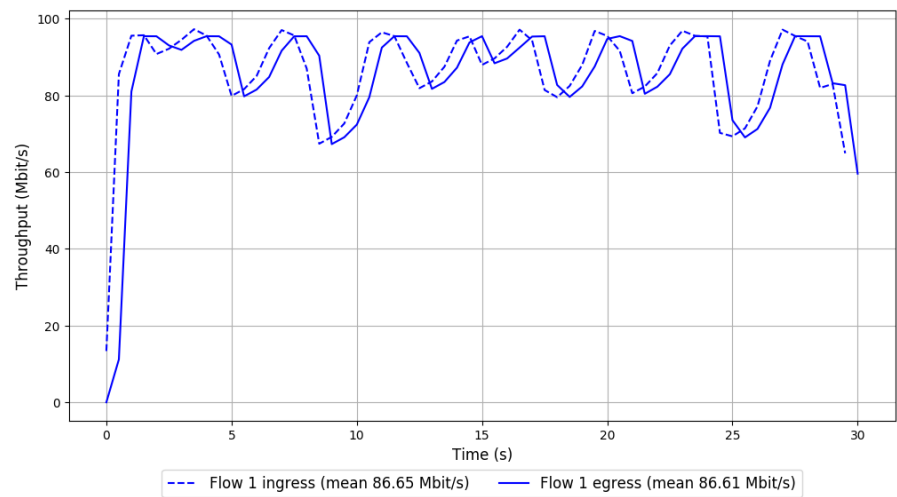


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 02:10:29
End at: 2018-06-19 02:10:59
Local clock offset: -3.808 ms
Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2018-06-19 05:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 35.342 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 35.342 ms
Loss rate: 0.22%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 02:31:24

End at: 2018-06-19 02:31:54

Local clock offset: -4.909 ms

Remote clock offset: 1.9 ms

# Below is generated by plot.py at 2018-06-19 05:25:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 40.887 ms

Loss rate: 0.23%

-- Flow 1:

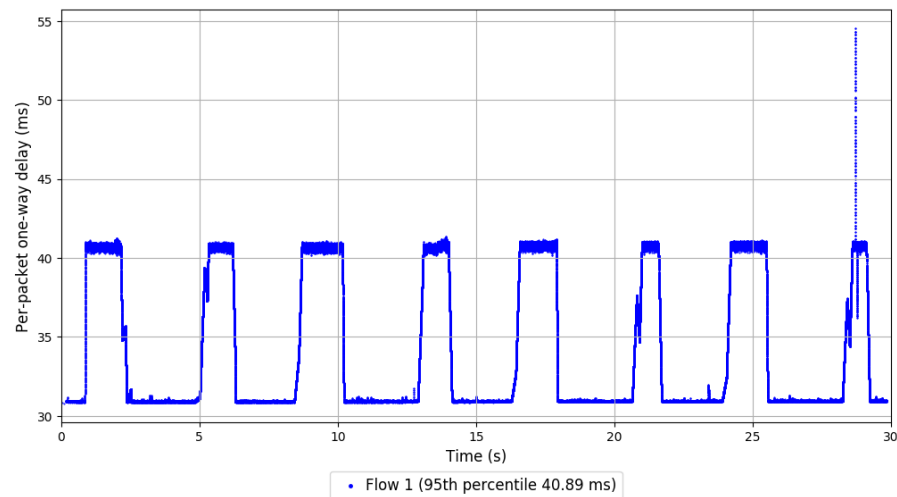
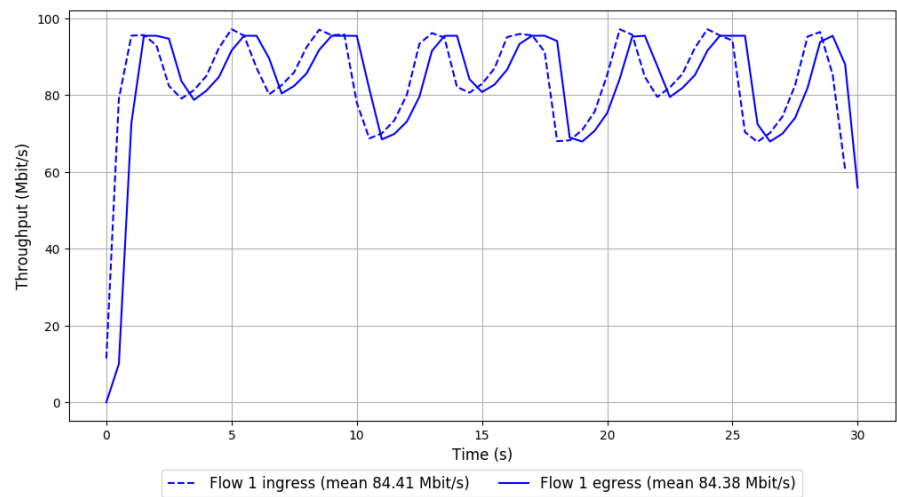
Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 40.887 ms

Loss rate: 0.23%



Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 02:52:20

End at: 2018-06-19 02:52:50

Local clock offset: 0.572 ms

Remote clock offset: 1.073 ms

# Below is generated by plot.py at 2018-06-19 05:25:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 40.324 ms

Loss rate: 0.29%

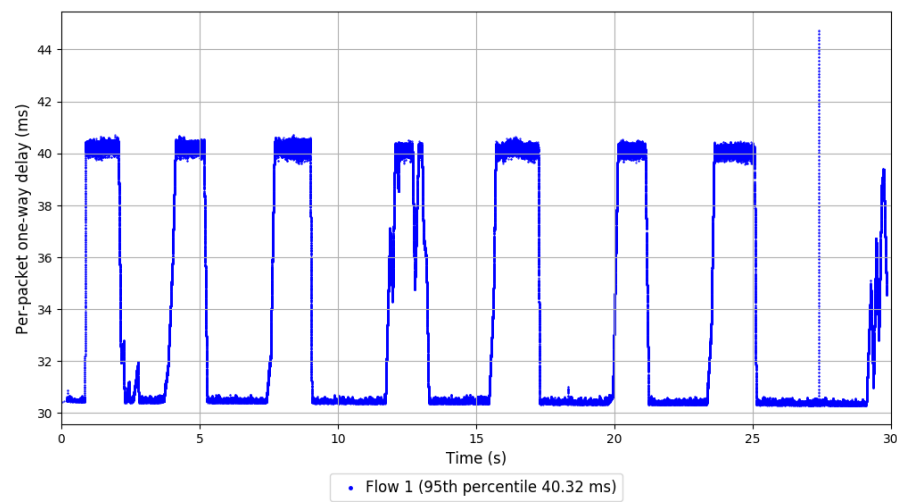
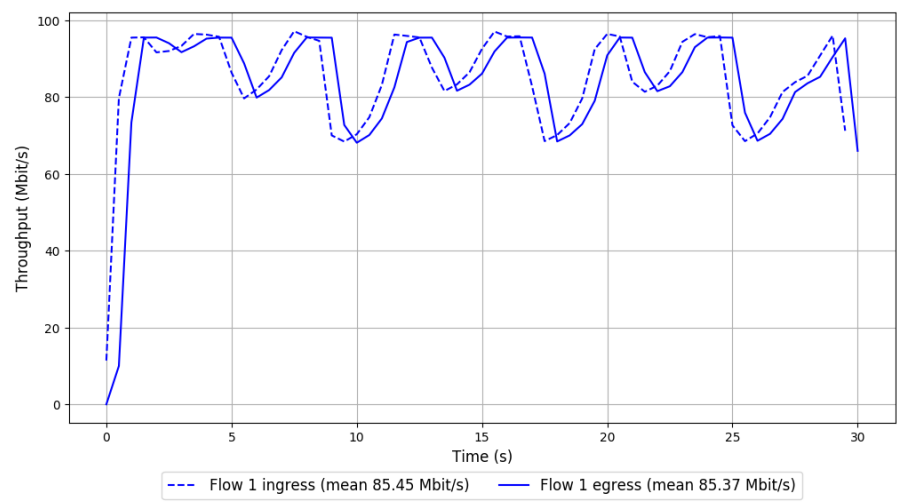
-- Flow 1:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 40.324 ms

Loss rate: 0.29%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 03:13:13

End at: 2018-06-19 03:13:43

Local clock offset: 1.136 ms

Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-19 05:26:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 39.655 ms

Loss rate: 0.32%

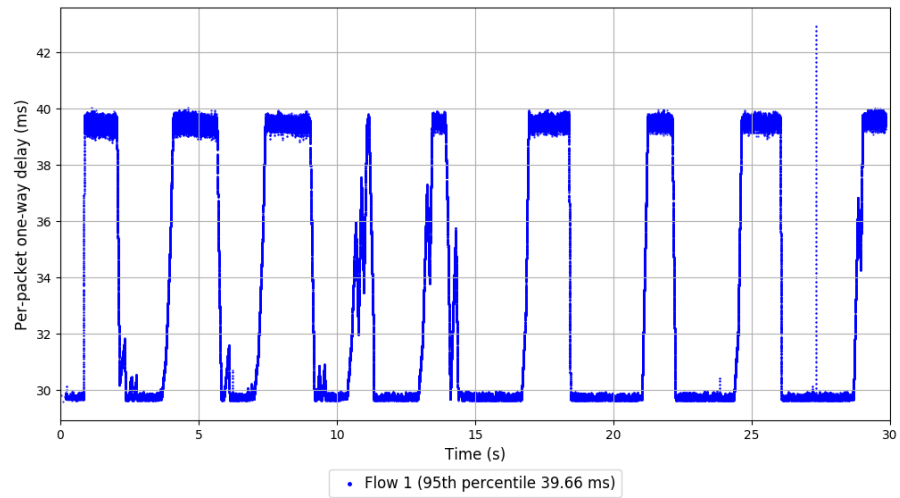
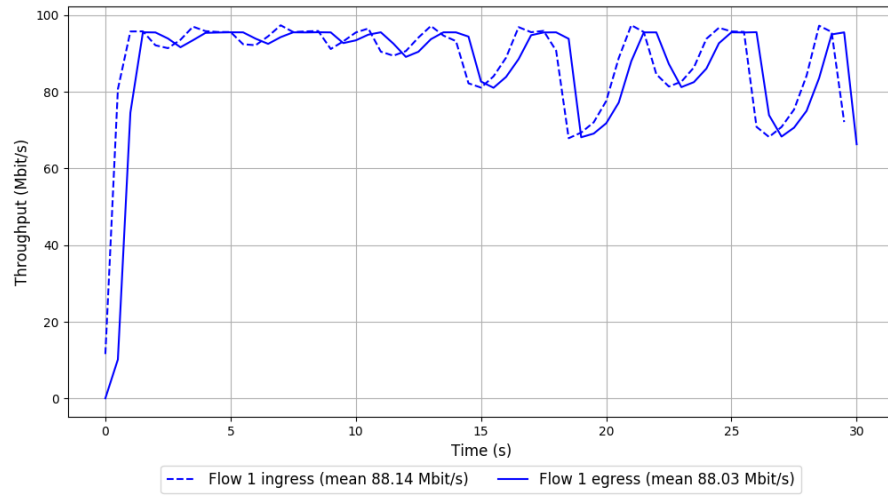
-- Flow 1:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 39.655 ms

Loss rate: 0.32%

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



Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 03:34:07

End at: 2018-06-19 03:34:37

Local clock offset: 1.58 ms

Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2018-06-19 05:26:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.10 Mbit/s

95th percentile per-packet one-way delay: 40.467 ms

Loss rate: 0.29%

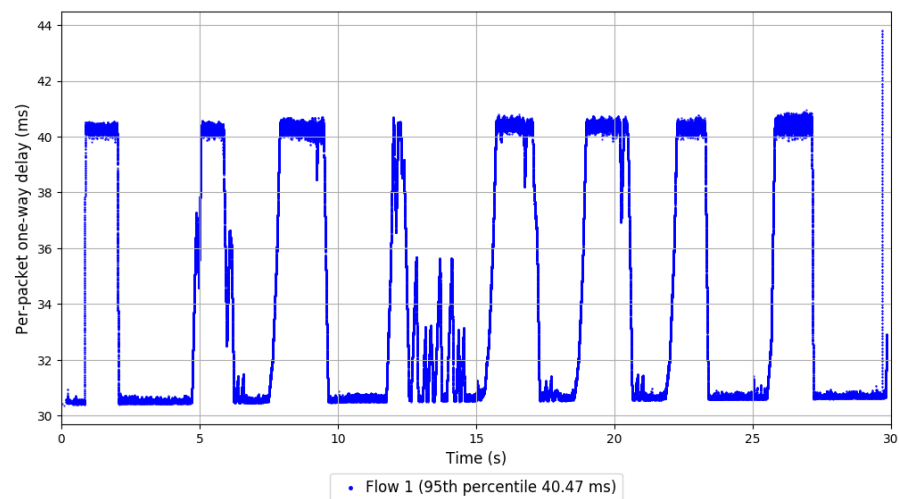
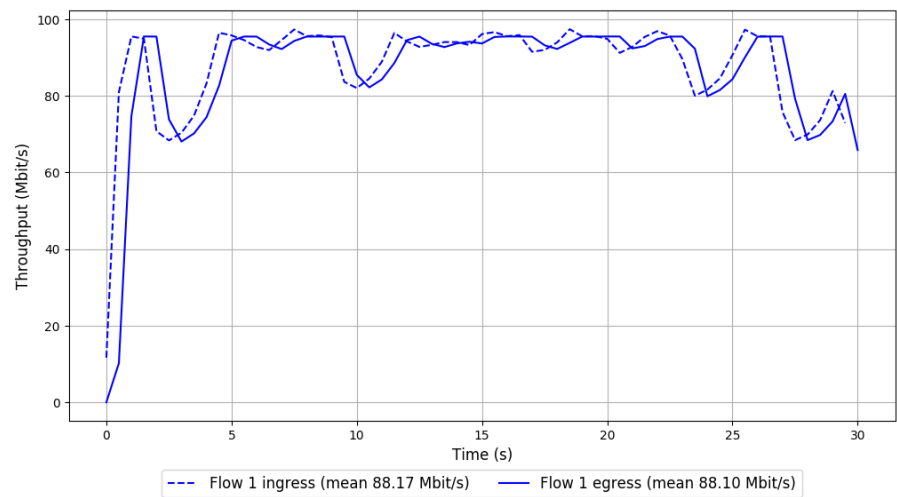
-- Flow 1:

Average throughput: 88.10 Mbit/s

95th percentile per-packet one-way delay: 40.467 ms

Loss rate: 0.29%

Run 6: Report of PCC-Expr — Data Link



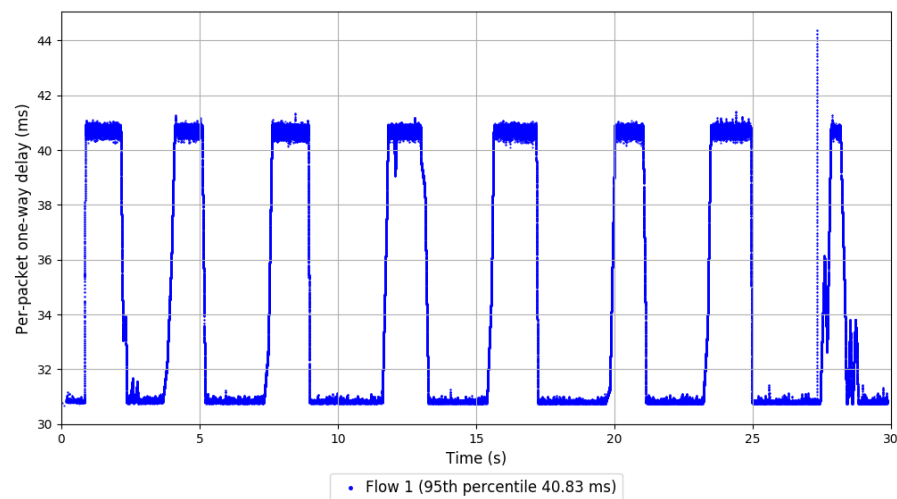
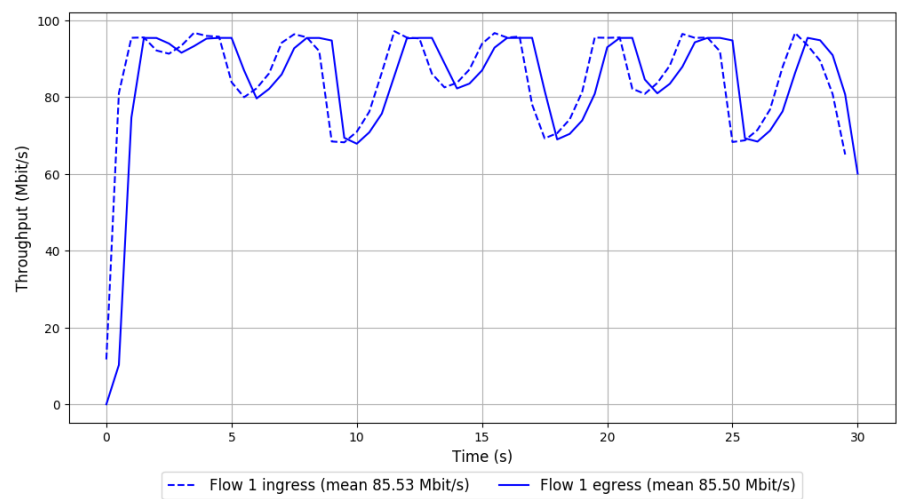
Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 03:55:01  
End at: 2018-06-19 03:55:31  
Local clock offset: -2.507 ms  
Remote clock offset: -0.755 ms

# Below is generated by plot.py at 2018-06-19 05:26:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.50 Mbit/s  
95th percentile per-packet one-way delay: 40.830 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 85.50 Mbit/s  
95th percentile per-packet one-way delay: 40.830 ms  
Loss rate: 0.24%



Run 7: Report of PCC-Expr — Data Link

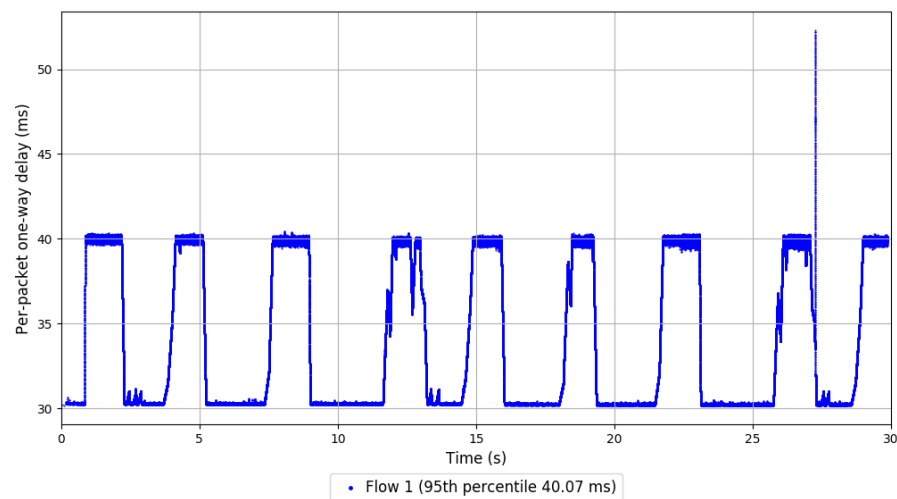
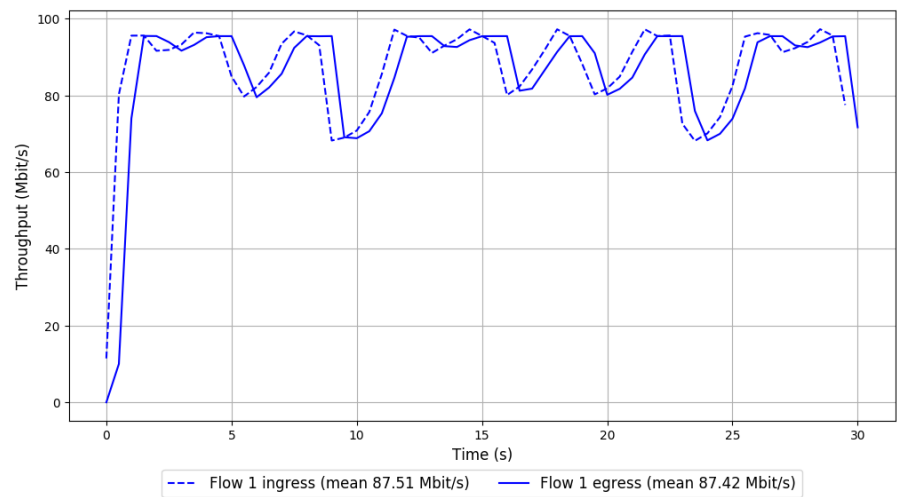


Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 04:15:54  
End at: 2018-06-19 04:16:24  
Local clock offset: -0.508 ms  
Remote clock offset: -1.095 ms

# Below is generated by plot.py at 2018-06-19 05:26:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.42 Mbit/s  
95th percentile per-packet one-way delay: 40.066 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 87.42 Mbit/s  
95th percentile per-packet one-way delay: 40.066 ms  
Loss rate: 0.30%

Run 8: Report of PCC-Expr — Data Link

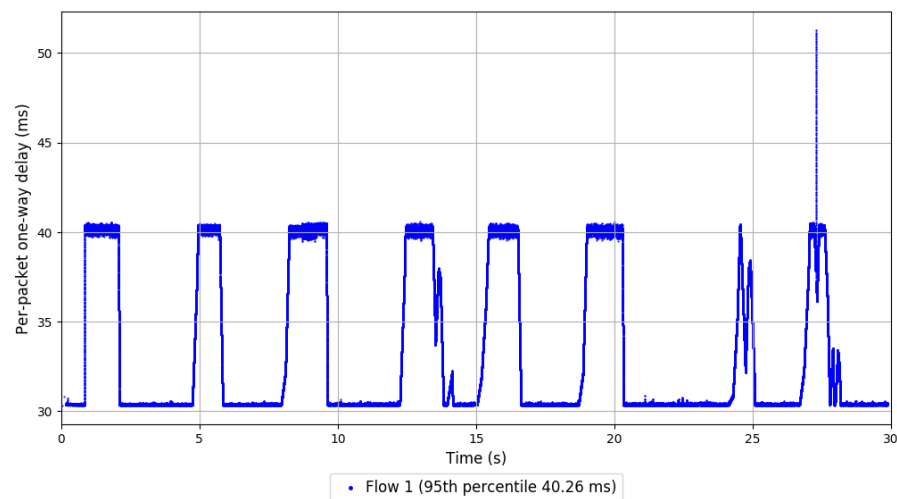
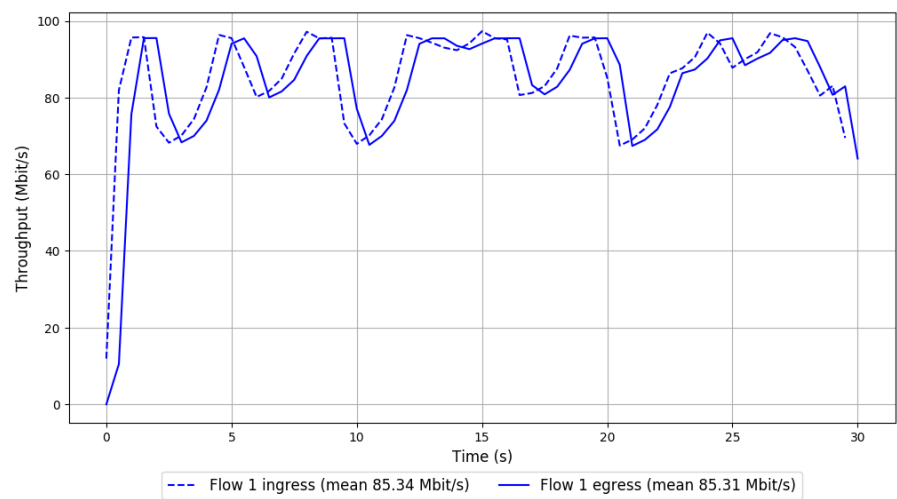


Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 04:37:05  
End at: 2018-06-19 04:37:35  
Local clock offset: 0.462 ms  
Remote clock offset: -1.057 ms

# Below is generated by plot.py at 2018-06-19 05:27:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.31 Mbit/s  
95th percentile per-packet one-way delay: 40.262 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 85.31 Mbit/s  
95th percentile per-packet one-way delay: 40.262 ms  
Loss rate: 0.24%

Run 9: Report of PCC-Expr — Data Link

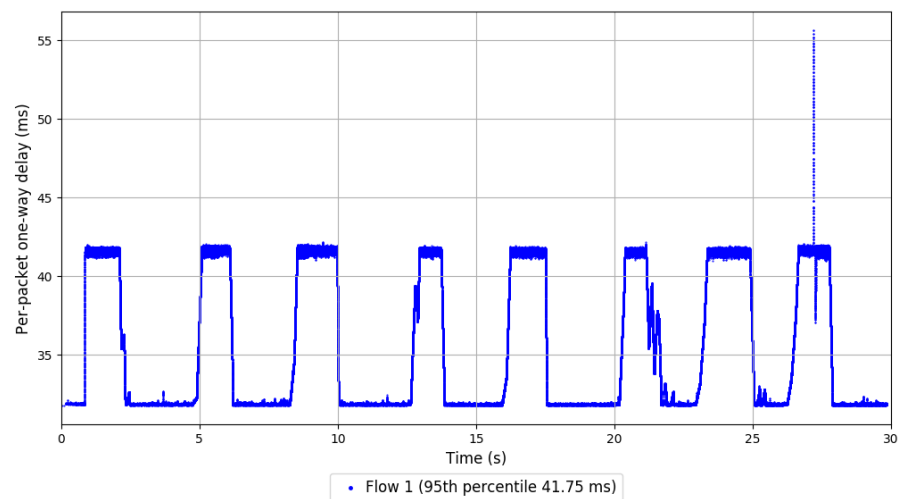
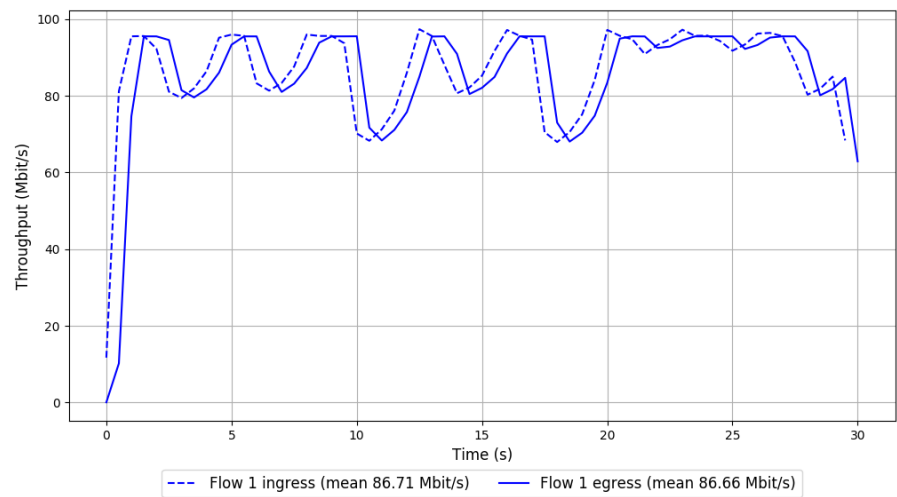


Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 04:58:01  
End at: 2018-06-19 04:58:31  
Local clock offset: 0.876 ms  
Remote clock offset: -2.666 ms

# Below is generated by plot.py at 2018-06-19 05:27:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.66 Mbit/s  
95th percentile per-packet one-way delay: 41.750 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 86.66 Mbit/s  
95th percentile per-packet one-way delay: 41.750 ms  
Loss rate: 0.25%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 01:53:35

End at: 2018-06-19 01:54:05

Local clock offset: -2.845 ms

Remote clock offset: -2.016 ms

# Below is generated by plot.py at 2018-06-19 05:27:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 39.866 ms

Loss rate: 0.23%

-- Flow 1:

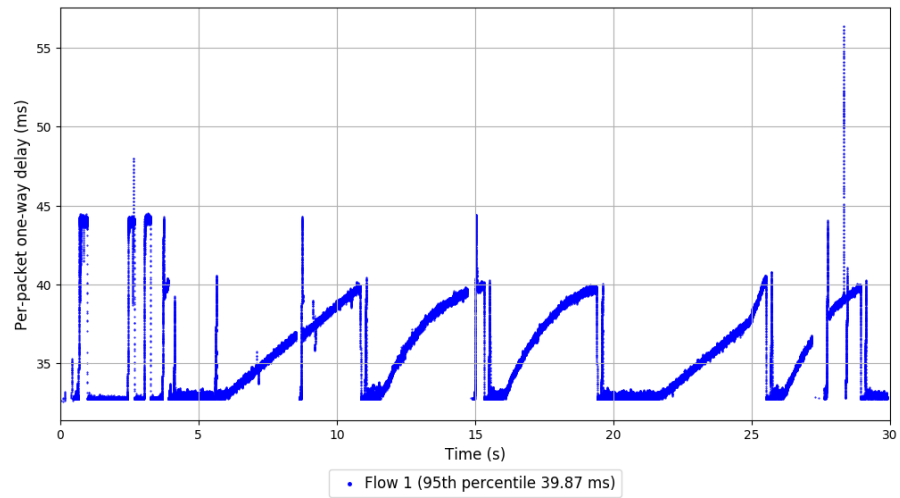
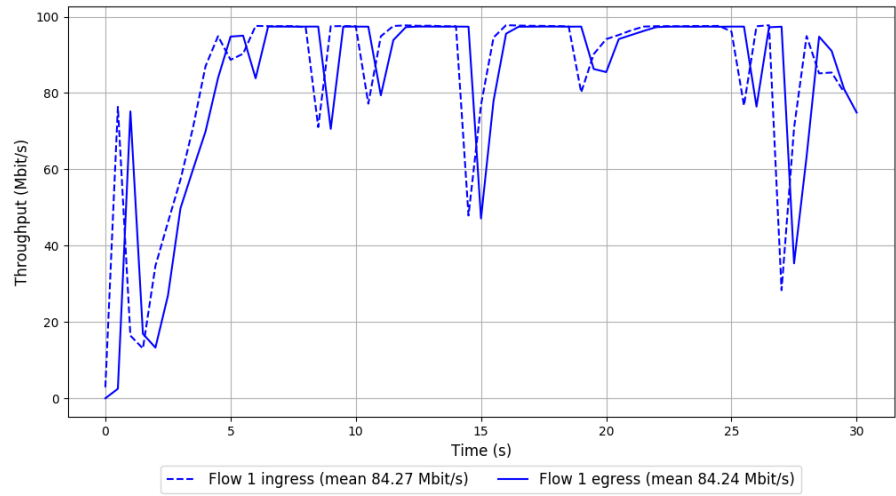
Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 39.866 ms

Loss rate: 0.23%



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

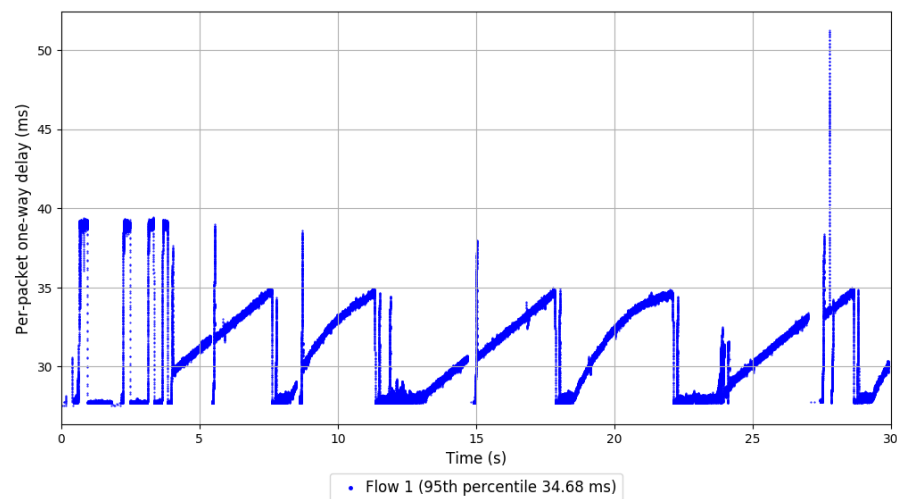
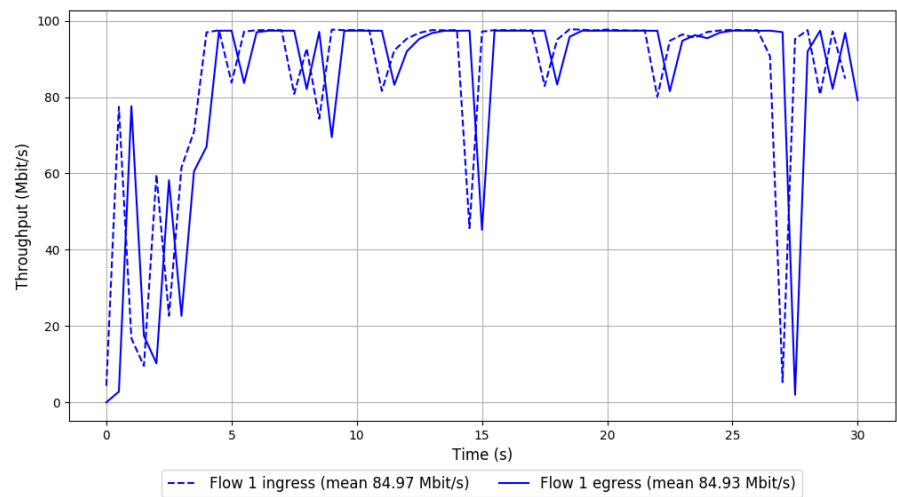


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 02:14:31  
End at: 2018-06-19 02:15:01  
Local clock offset: -4.015 ms  
Remote clock offset: -1.214 ms

# Below is generated by plot.py at 2018-06-19 05:27:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.93 Mbit/s  
95th percentile per-packet one-way delay: 34.683 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 84.93 Mbit/s  
95th percentile per-packet one-way delay: 34.683 ms  
Loss rate: 0.23%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 02:35:25

End at: 2018-06-19 02:35:55

Local clock offset: -4.111 ms

Remote clock offset: 2.117 ms

# Below is generated by plot.py at 2018-06-19 05:27:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 31.737 ms

Loss rate: 0.24%

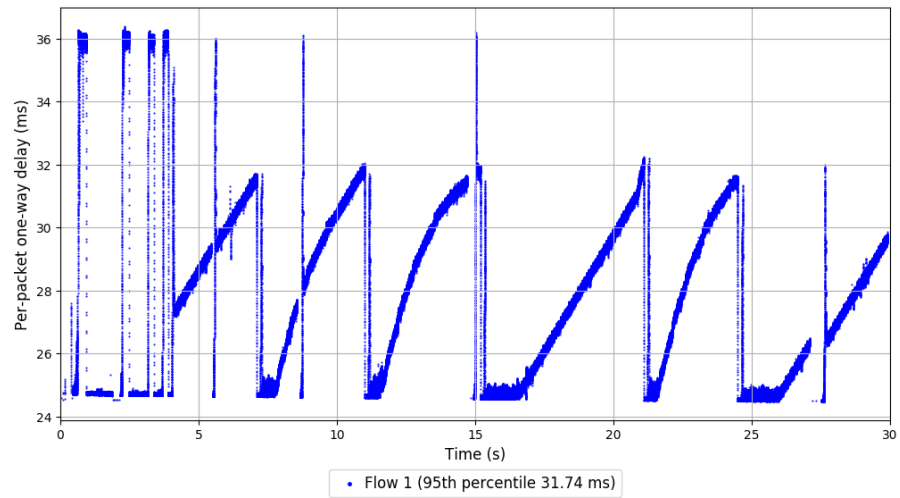
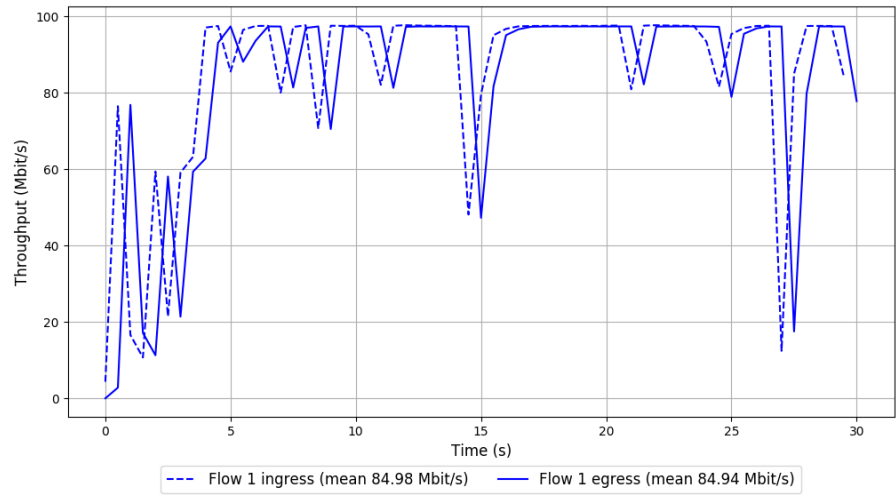
-- Flow 1:

Average throughput: 84.94 Mbit/s

95th percentile per-packet one-way delay: 31.737 ms

Loss rate: 0.24%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 02:56:21

End at: 2018-06-19 02:56:51

Local clock offset: 1.117 ms

Remote clock offset: 0.68 ms

# Below is generated by plot.py at 2018-06-19 05:27:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.93 Mbit/s

95th percentile per-packet one-way delay: 37.974 ms

Loss rate: 0.23%

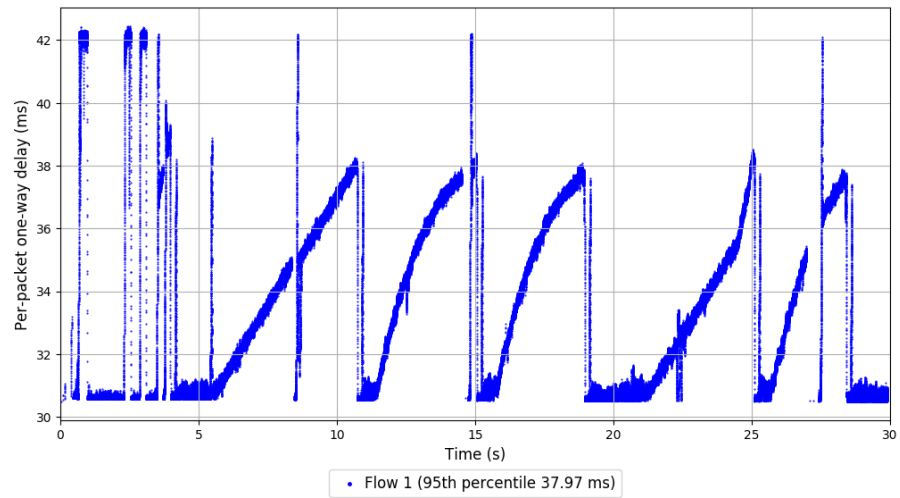
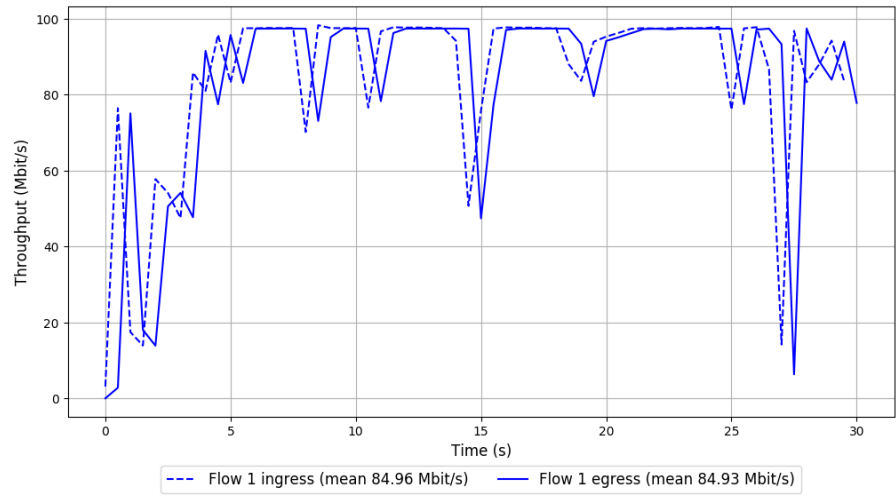
-- Flow 1:

Average throughput: 84.93 Mbit/s

95th percentile per-packet one-way delay: 37.974 ms

Loss rate: 0.23%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 03:17:14

End at: 2018-06-19 03:17:44

Local clock offset: 1.241 ms

Remote clock offset: 0.444 ms

# Below is generated by plot.py at 2018-06-19 05:27:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.74 Mbit/s

95th percentile per-packet one-way delay: 37.298 ms

Loss rate: 0.25%

-- Flow 1:

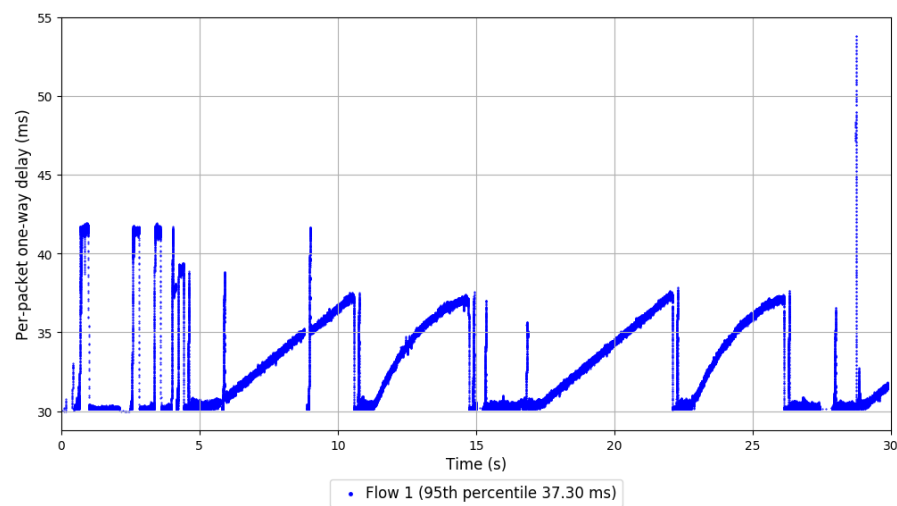
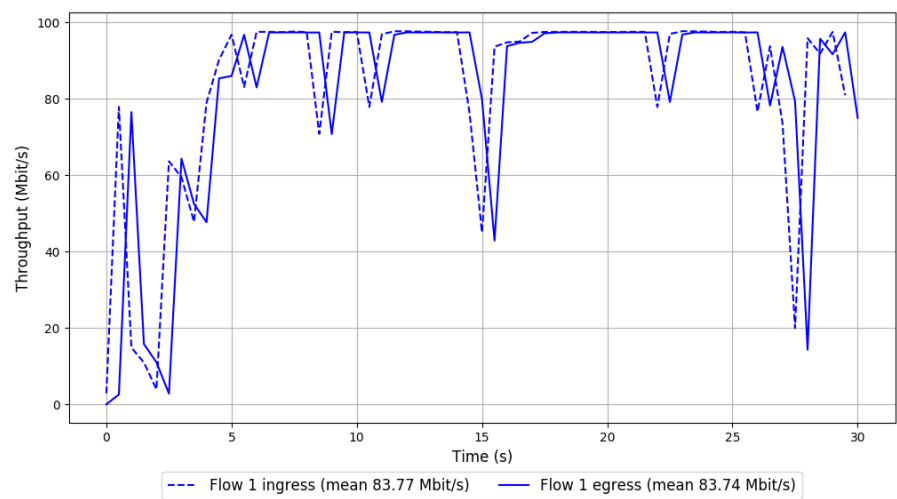
Average throughput: 83.74 Mbit/s

95th percentile per-packet one-way delay: 37.298 ms

Loss rate: 0.25%



Run 5: Report of QUIC Cubic — Data Link

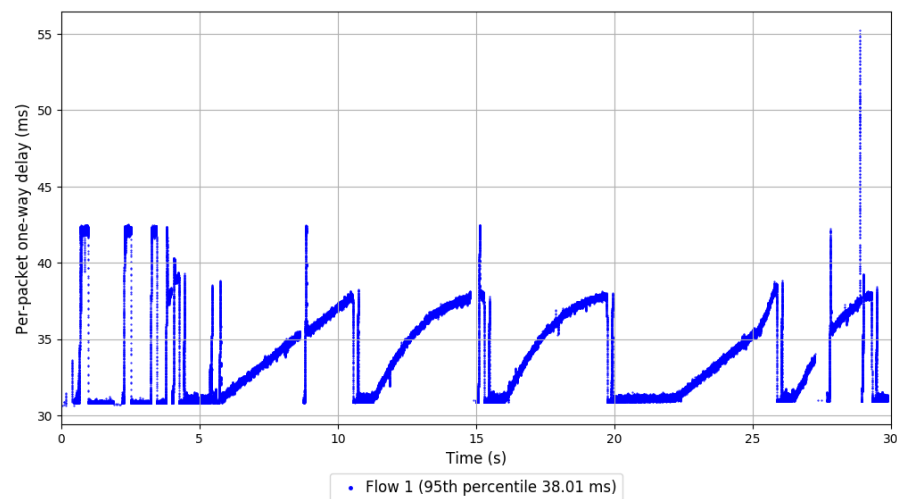
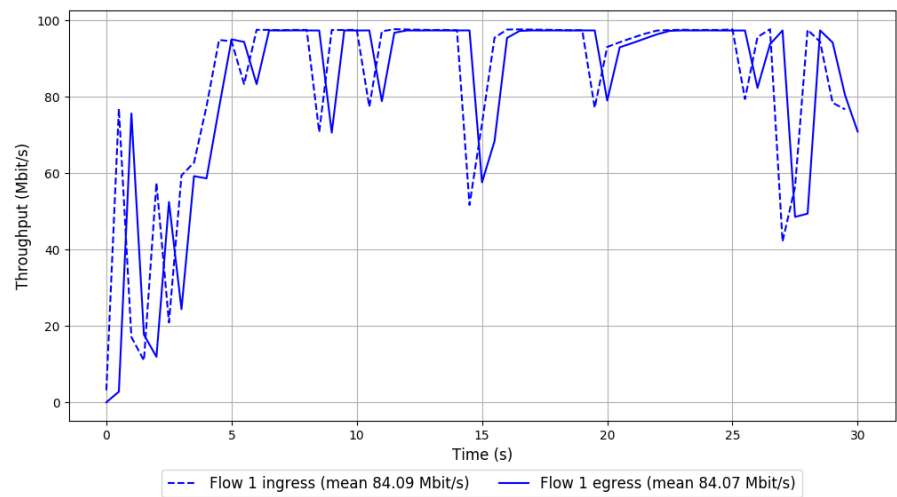


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 03:38:09  
End at: 2018-06-19 03:38:39  
Local clock offset: -0.027 ms  
Remote clock offset: -0.367 ms

# Below is generated by plot.py at 2018-06-19 05:27:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.07 Mbit/s  
95th percentile per-packet one-way delay: 38.013 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 84.07 Mbit/s  
95th percentile per-packet one-way delay: 38.013 ms  
Loss rate: 0.23%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 03:59:01

End at: 2018-06-19 03:59:31

Local clock offset: -2.723 ms

Remote clock offset: -2.94 ms

# Below is generated by plot.py at 2018-06-19 05:28:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 34.629 ms

Loss rate: 0.22%

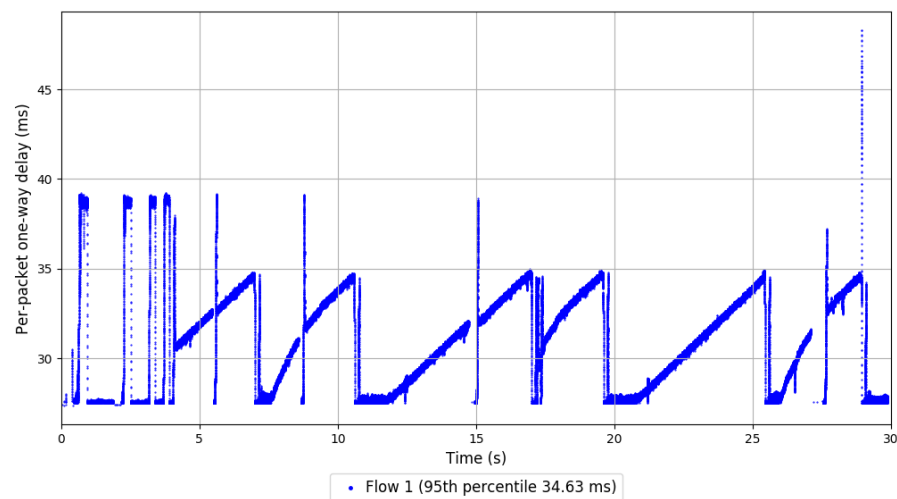
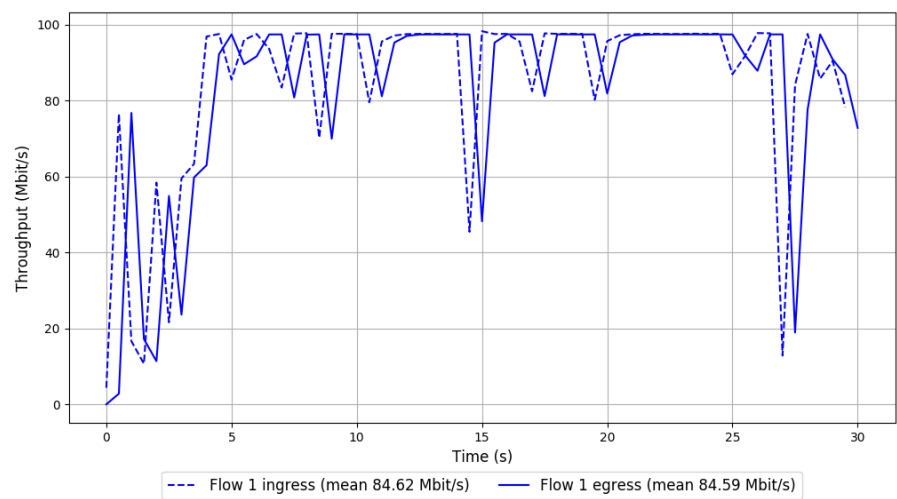
-- Flow 1:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 34.629 ms

Loss rate: 0.22%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 04:19:56

End at: 2018-06-19 04:20:26

Local clock offset: -0.228 ms

Remote clock offset: -3.639 ms

# Below is generated by plot.py at 2018-06-19 05:28:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 35.211 ms

Loss rate: 0.24%

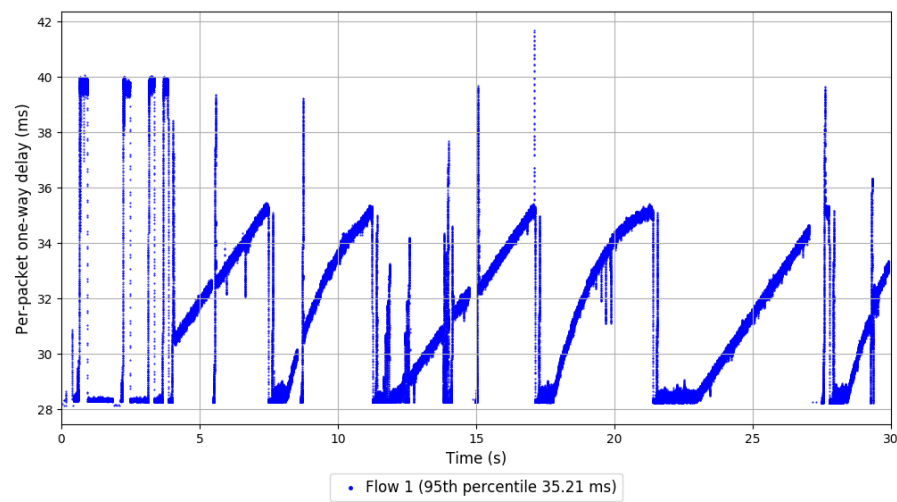
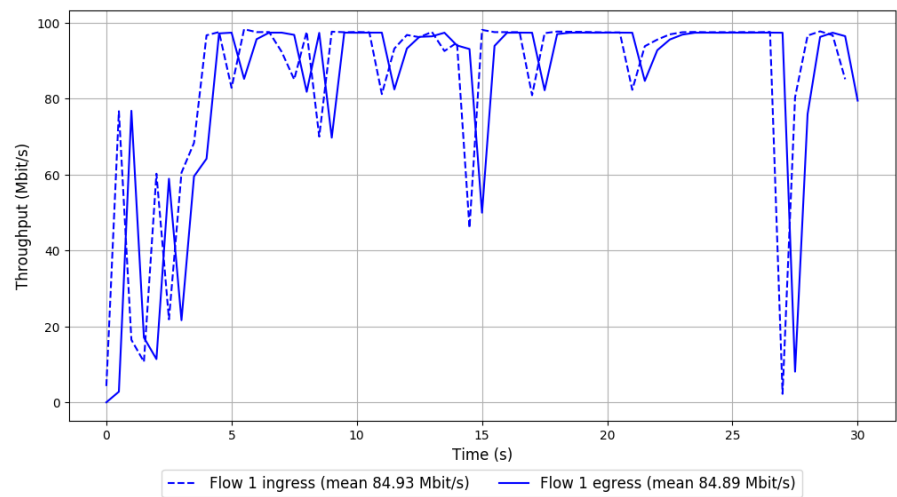
-- Flow 1:

Average throughput: 84.89 Mbit/s

95th percentile per-packet one-way delay: 35.211 ms

Loss rate: 0.24%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 04:41:06

End at: 2018-06-19 04:41:36

Local clock offset: 0.556 ms

Remote clock offset: -2.91 ms

# Below is generated by plot.py at 2018-06-19 05:28:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 34.854 ms

Loss rate: 0.23%

-- Flow 1:

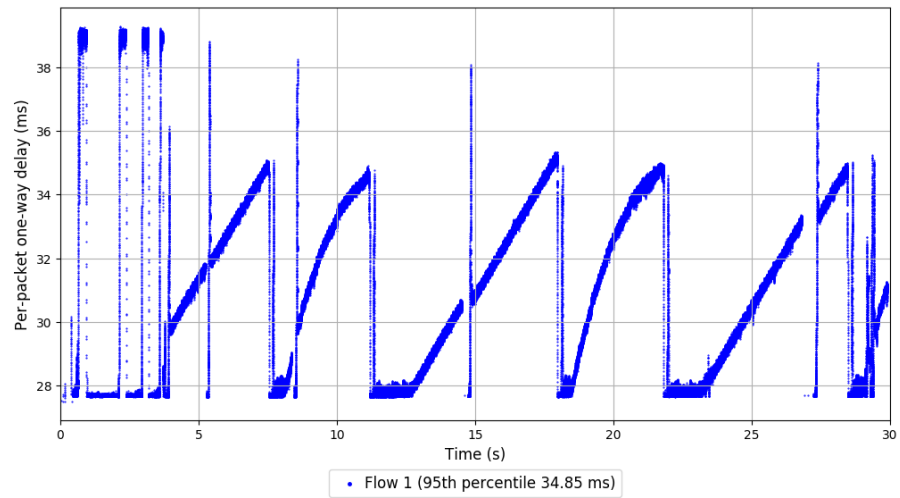
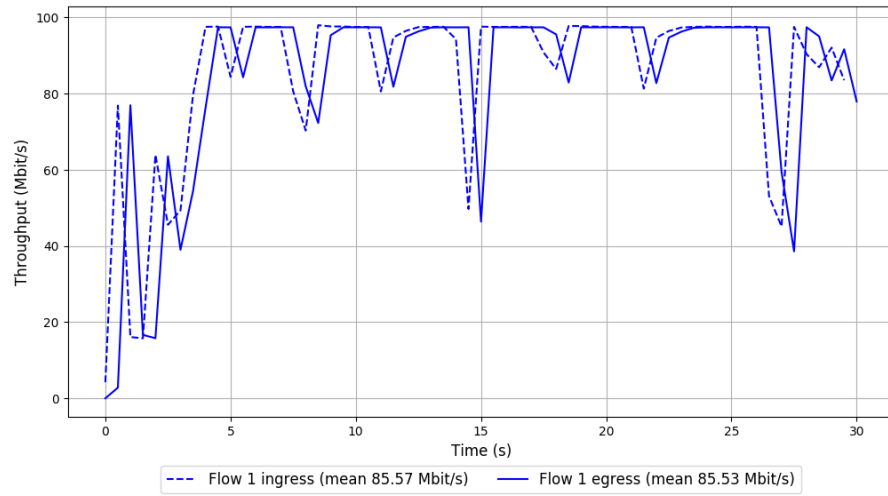
Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 34.854 ms

Loss rate: 0.23%



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



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 05:02:03

End at: 2018-06-19 05:02:33

Local clock offset: 0.879 ms

Remote clock offset: -2.555 ms

# Below is generated by plot.py at 2018-06-19 05:28:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 39.499 ms

Loss rate: 0.25%

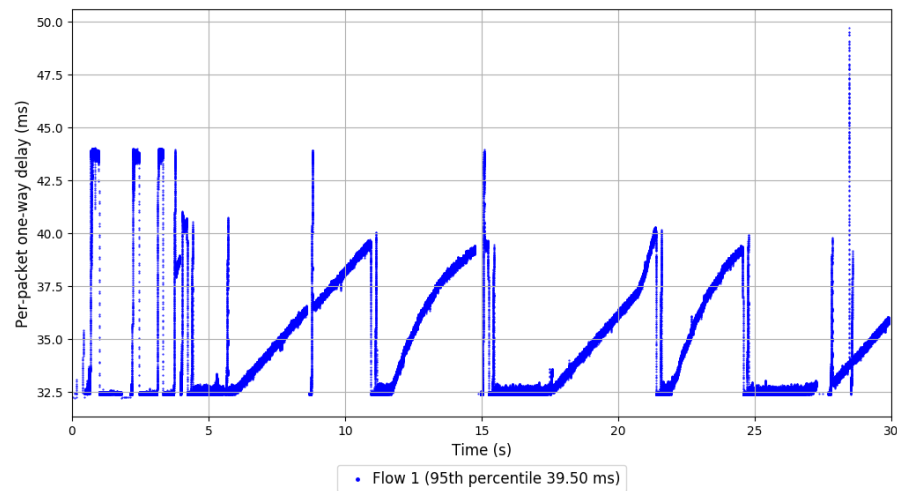
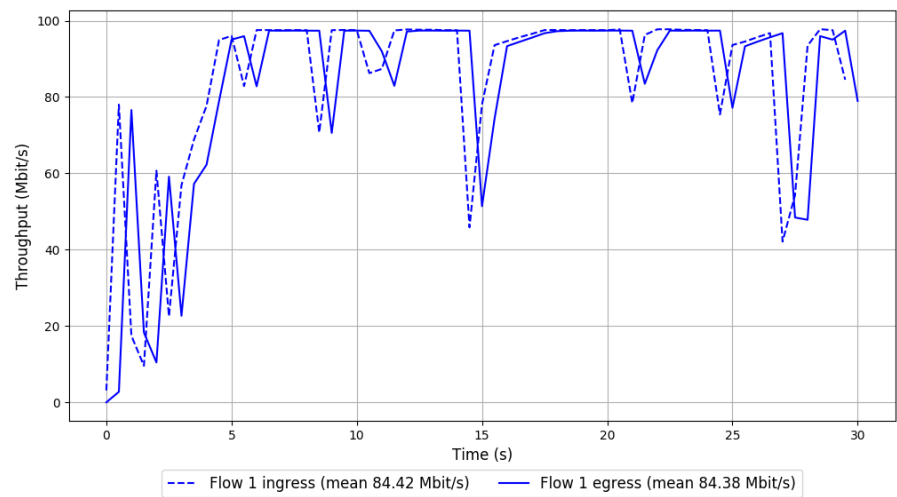
-- Flow 1:

Average throughput: 84.38 Mbit/s

95th percentile per-packet one-way delay: 39.499 ms

Loss rate: 0.25%

Run 10: Report of QUIC Cubic — Data Link

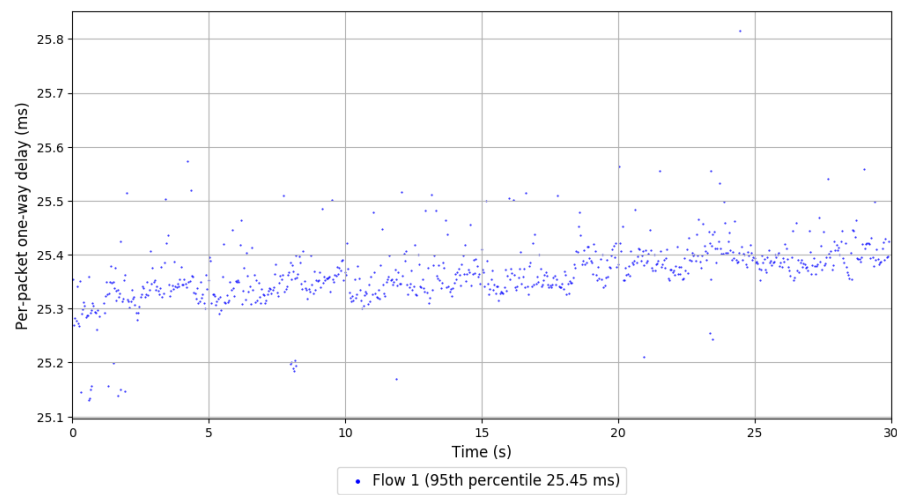
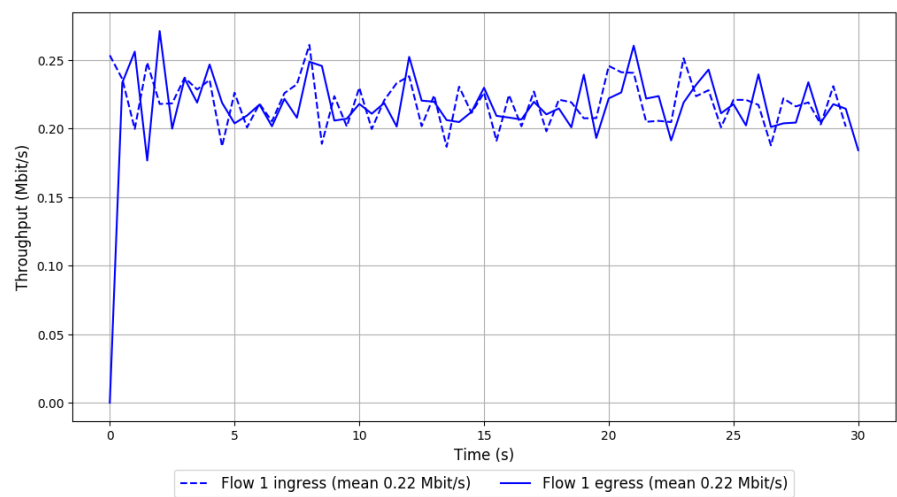


```
Run 1: Statistics of SCReAM

Start at: 2018-06-19 01:43:05
End at: 2018-06-19 01:43:35
Local clock offset: -1.786 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-06-19 05:28:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.453 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.453 ms
Loss rate: 0.26%
```

Run 1: Report of SReAM — Data Link

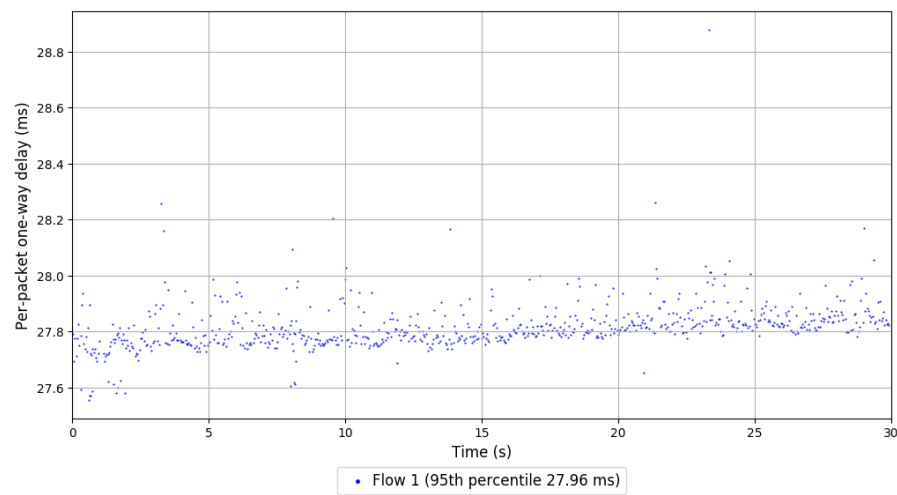
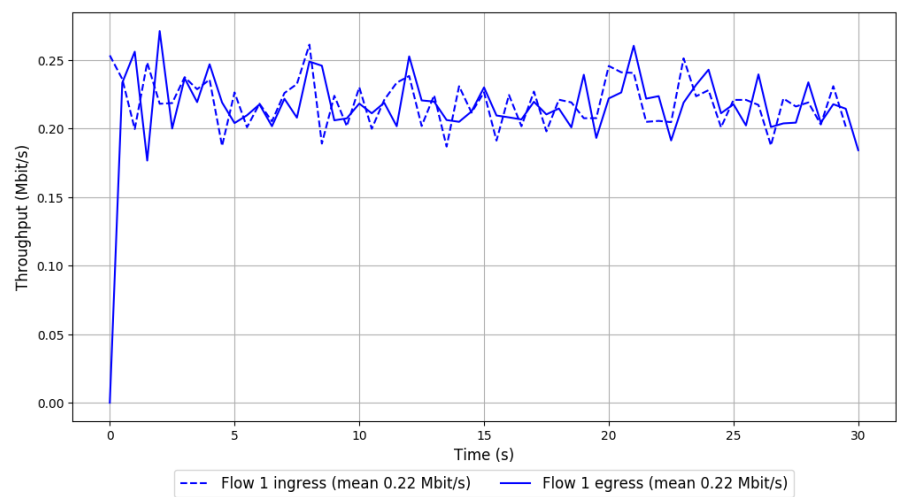


Run 2: Statistics of SCReAM

Start at: 2018-06-19 02:04:01  
End at: 2018-06-19 02:04:31  
Local clock offset: -3.487 ms  
Remote clock offset: -1.652 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.956 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 27.956 ms  
Loss rate: 0.26%

Run 2: Report of SReAM — Data Link



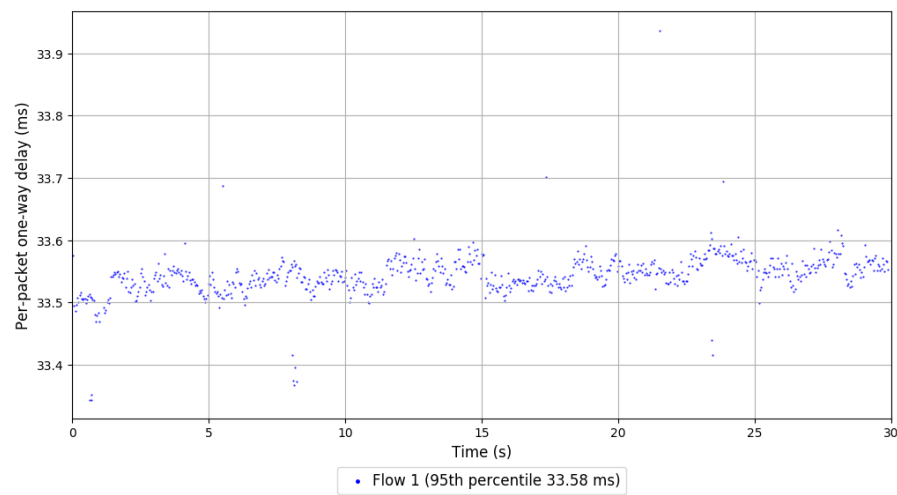
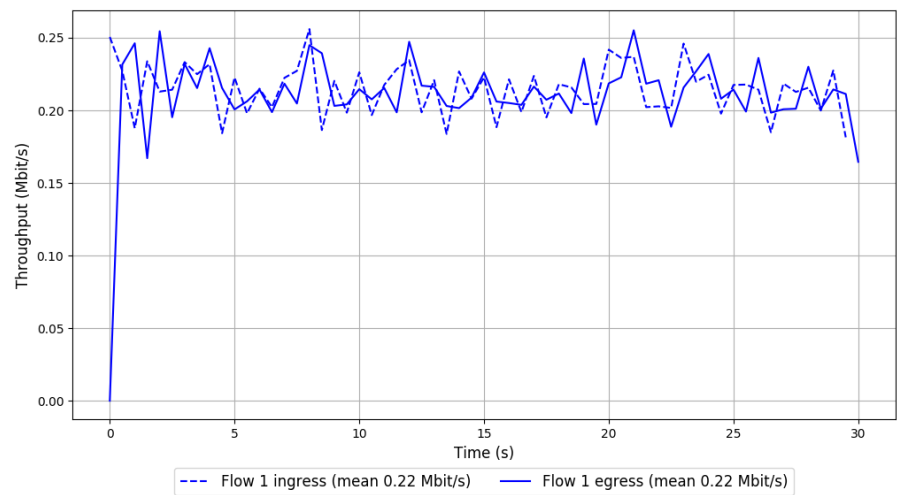
Run 3: Statistics of SCReAM

Start at: 2018-06-19 02:24:56  
End at: 2018-06-19 02:25:26  
Local clock offset: -4.583 ms  
Remote clock offset: -0.861 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 33.583 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 33.583 ms  
Loss rate: 0.26%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-19 02:45:51

End at: 2018-06-19 02:46:21

Local clock offset: -0.455 ms

Remote clock offset: 2.523 ms

# Below is generated by plot.py at 2018-06-19 05:28:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.073 ms

Loss rate: 0.13%

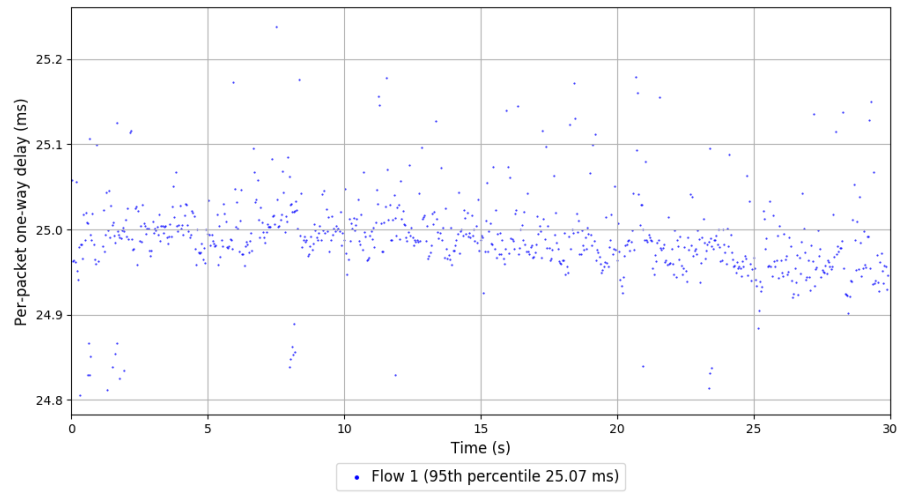
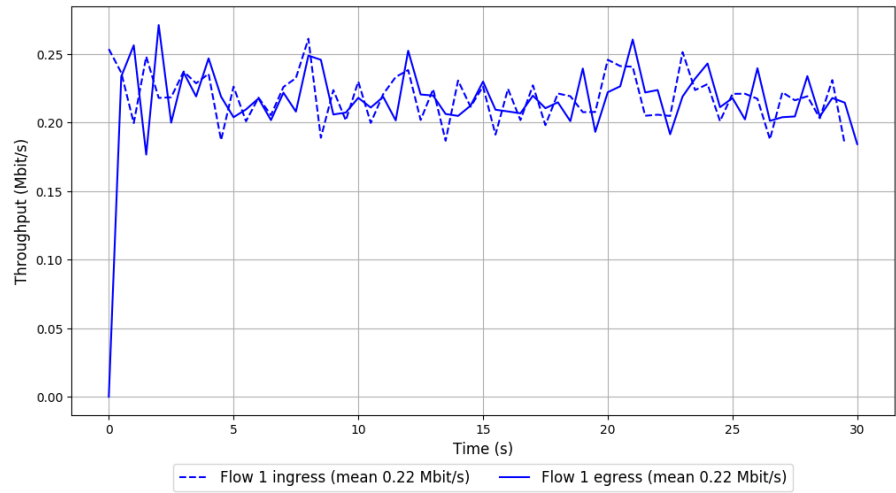
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.073 ms

Loss rate: 0.13%

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



Run 5: Statistics of SCReAM

Start at: 2018-06-19 03:06:45

End at: 2018-06-19 03:07:15

Local clock offset: 1.43 ms

Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2018-06-19 05:28:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.894 ms

Loss rate: 0.13%

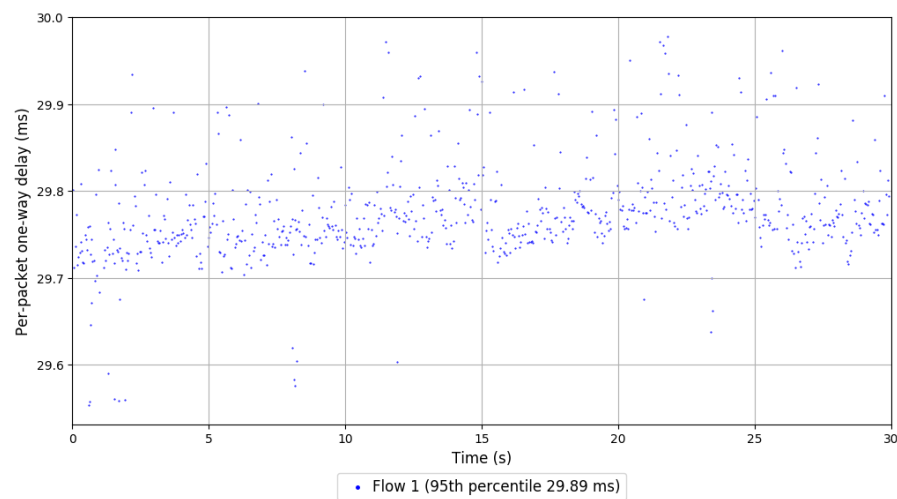
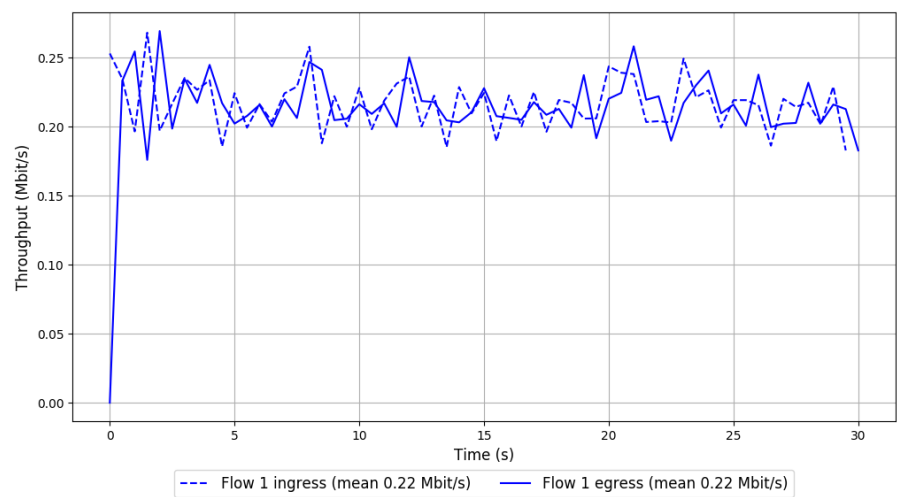
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.894 ms

Loss rate: 0.13%

Run 5: Report of SReAM — Data Link

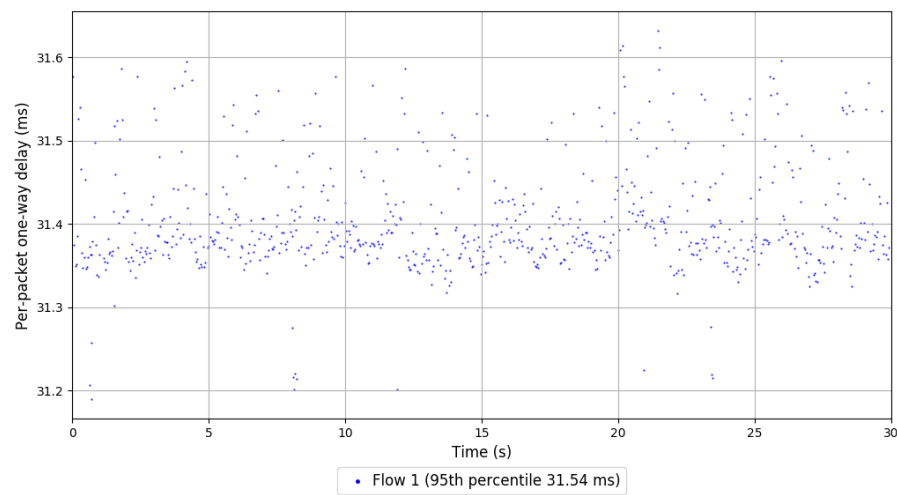
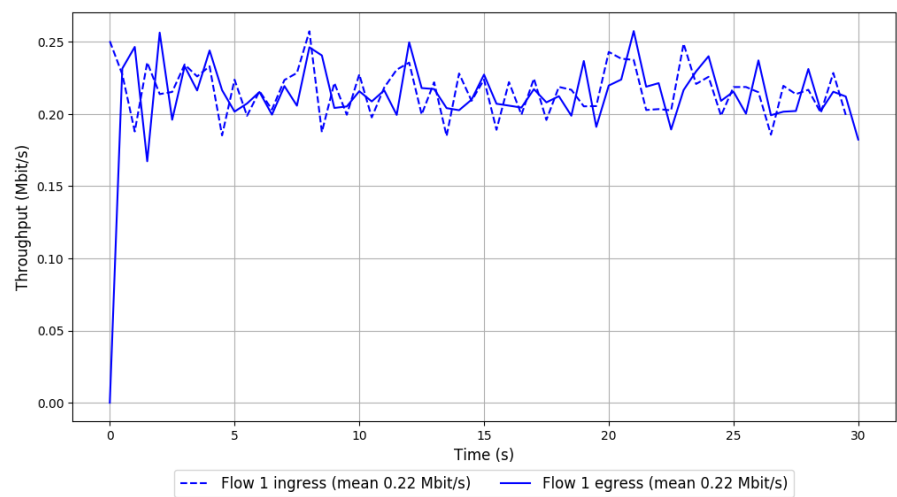


Run 6: Statistics of SCReAM

Start at: 2018-06-19 03:27:39  
End at: 2018-06-19 03:28:09  
Local clock offset: 1.347 ms  
Remote clock offset: -0.299 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.540 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.540 ms  
Loss rate: 0.26%

Run 6: Report of SReAM — Data Link



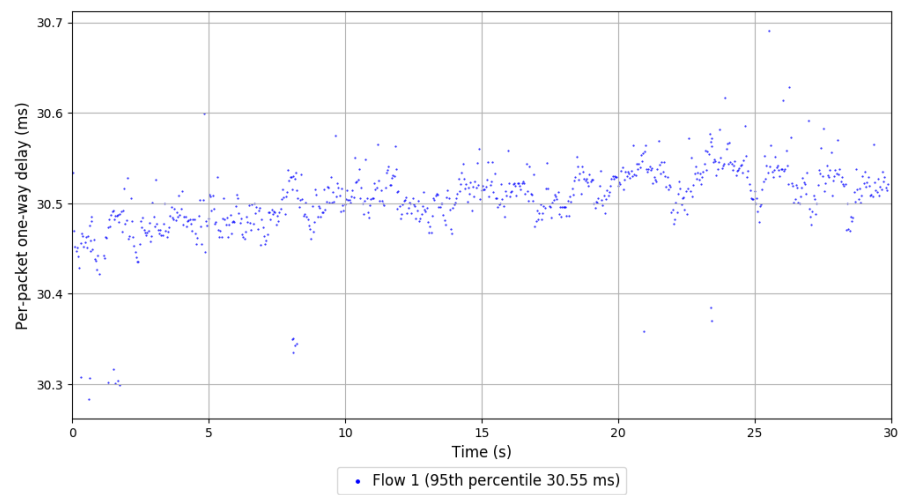
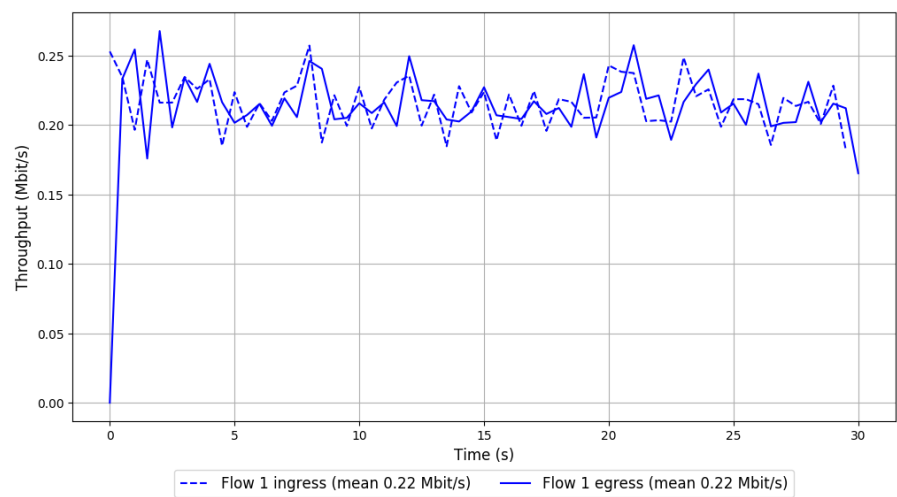
Run 7: Statistics of SCReAM

Start at: 2018-06-19 03:48:33  
End at: 2018-06-19 03:49:03  
Local clock offset: -2.023 ms  
Remote clock offset: -0.507 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.552 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 30.552 ms  
Loss rate: 0.26%



Run 7: Report of SReAM — Data Link

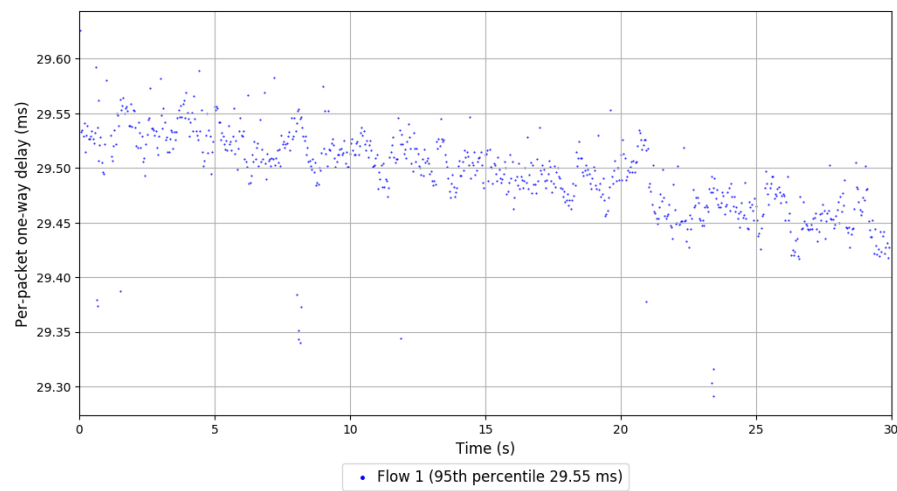
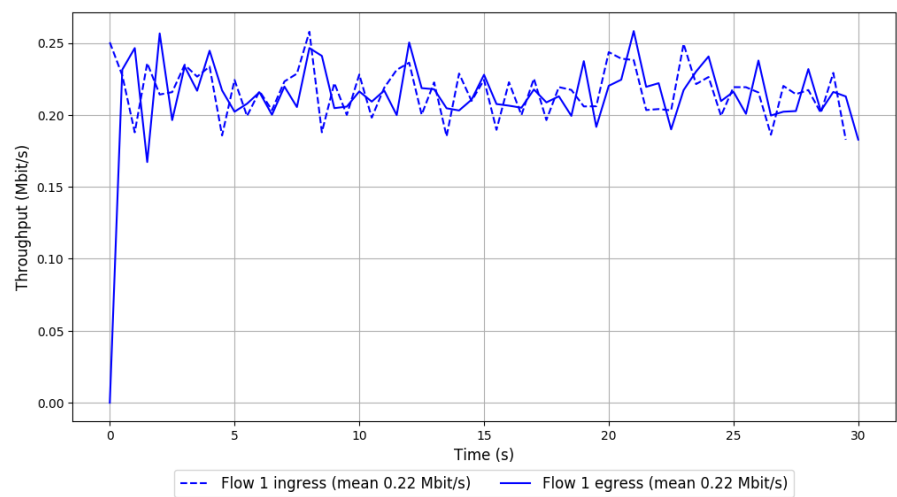


Run 8: Statistics of SCReAM

Start at: 2018-06-19 04:09:26  
End at: 2018-06-19 04:09:56  
Local clock offset: -1.505 ms  
Remote clock offset: -1.265 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.552 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 29.552 ms  
Loss rate: 0.13%

Run 8: Report of SReAM — Data Link

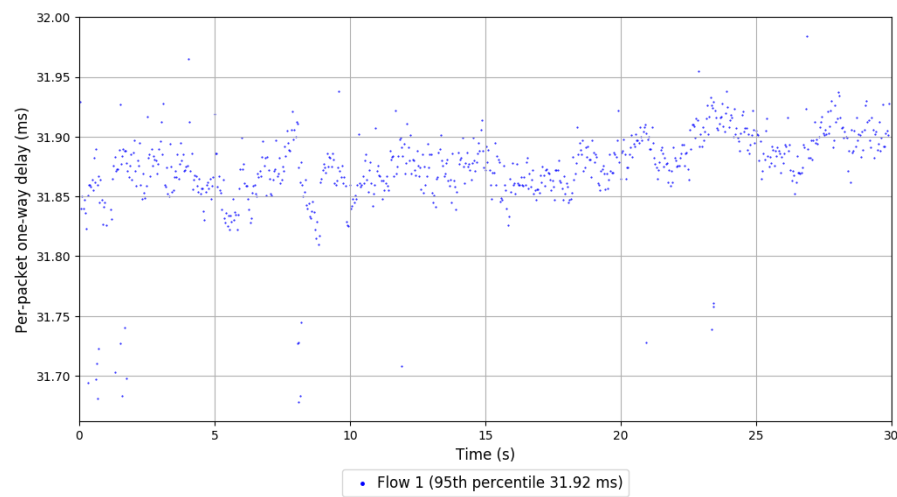
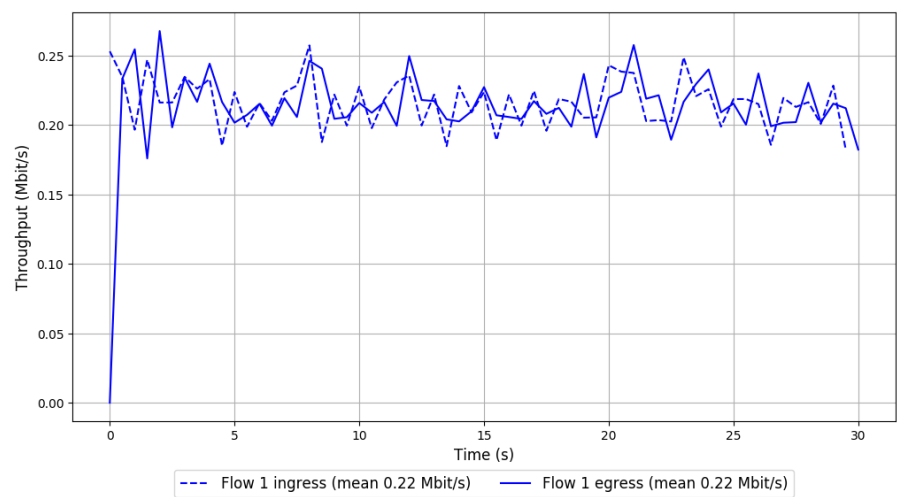


Run 9: Statistics of SCReAM

Start at: 2018-06-19 04:30:36  
End at: 2018-06-19 04:31:06  
Local clock offset: 0.442 ms  
Remote clock offset: -3.684 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.917 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 31.917 ms  
Loss rate: 0.13%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-19 04:51:32

End at: 2018-06-19 04:52:02

Local clock offset: 0.657 ms

Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-06-19 05:28:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.883 ms

Loss rate: 0.26%

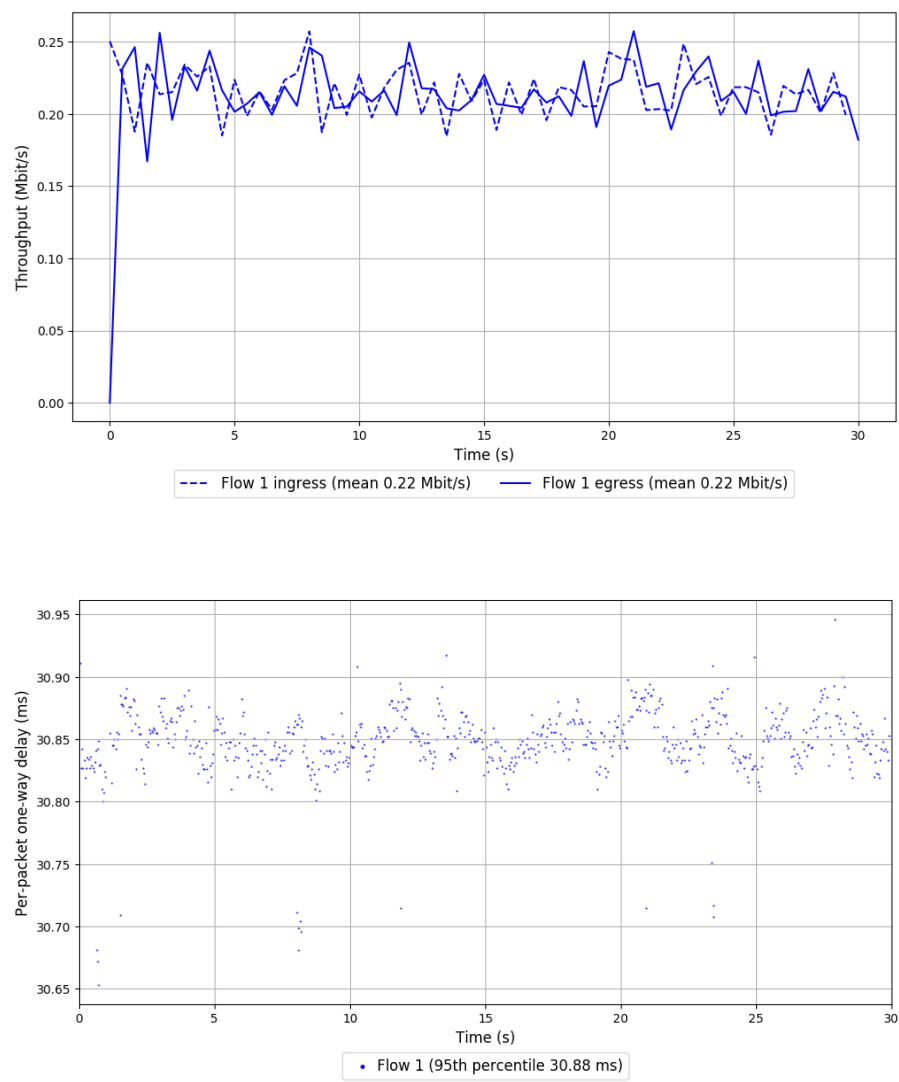
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.883 ms

Loss rate: 0.26%

Run 10: Report of SReAM — Data Link



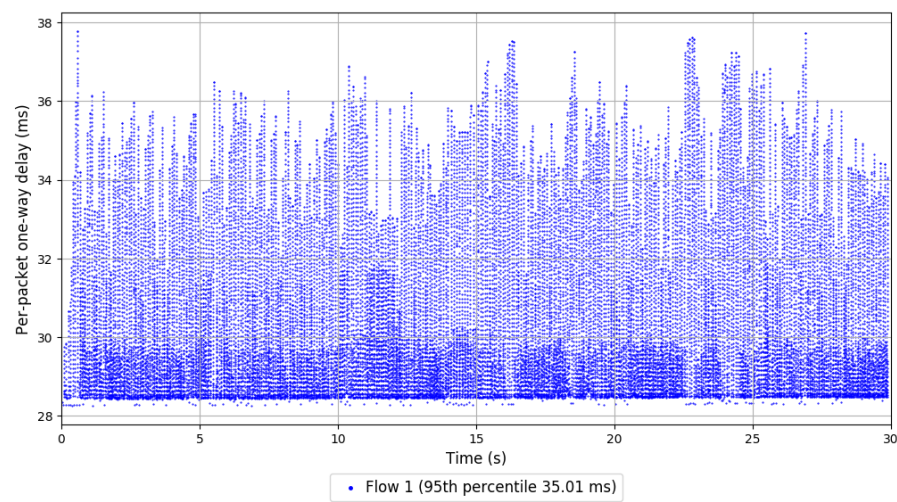
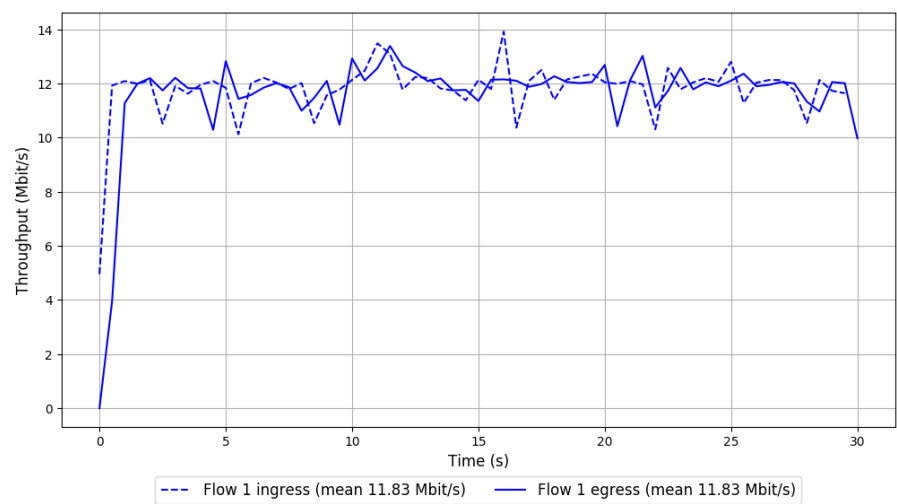
Run 1: Statistics of Sprout

Start at: 2018-06-19 02:00:10  
End at: 2018-06-19 02:00:40  
Local clock offset: -3.367 ms  
Remote clock offset: -1.778 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.83 Mbit/s  
95th percentile per-packet one-way delay: 35.009 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 11.83 Mbit/s  
95th percentile per-packet one-way delay: 35.009 ms  
Loss rate: 0.26%



Run 1: Report of Sprout — Data Link

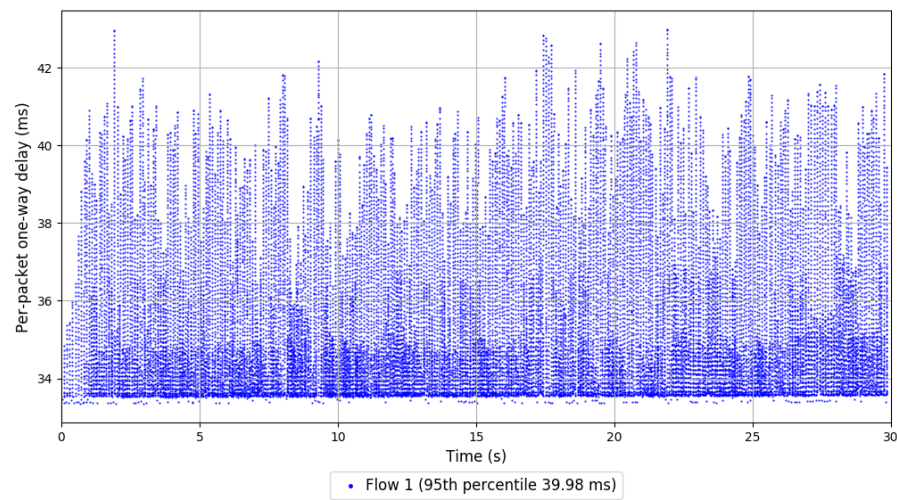
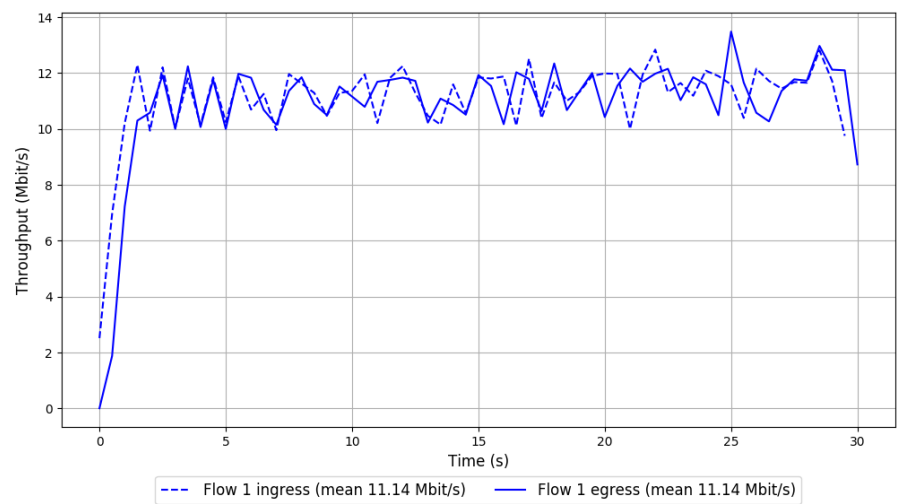


Run 2: Statistics of Sprout

Start at: 2018-06-19 02:21:06  
End at: 2018-06-19 02:21:36  
Local clock offset: -4.302 ms  
Remote clock offset: -0.968 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.14 Mbit/s  
95th percentile per-packet one-way delay: 39.983 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 11.14 Mbit/s  
95th percentile per-packet one-way delay: 39.983 ms  
Loss rate: 0.30%

Run 2: Report of Sprout — Data Link

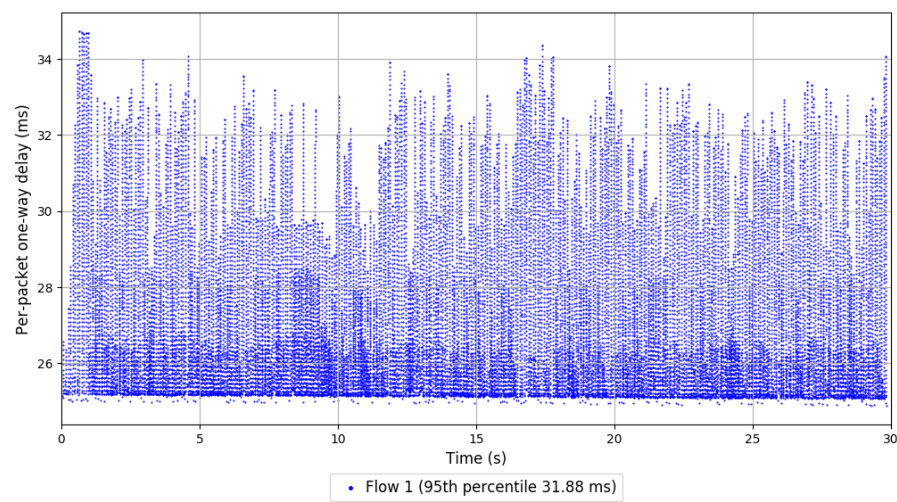
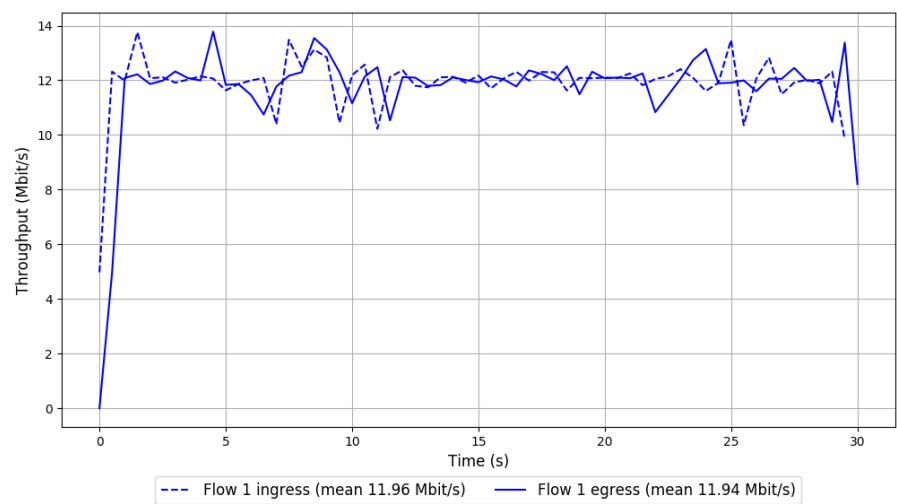


Run 3: Statistics of Sprout

Start at: 2018-06-19 02:42:00  
End at: 2018-06-19 02:42:30  
Local clock offset: -1.311 ms  
Remote clock offset: 2.324 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.94 Mbit/s  
95th percentile per-packet one-way delay: 31.878 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 11.94 Mbit/s  
95th percentile per-packet one-way delay: 31.878 ms  
Loss rate: 0.28%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-19 03:02:55

End at: 2018-06-19 03:03:25

Local clock offset: 1.683 ms

Remote clock offset: 0.264 ms

# Below is generated by plot.py at 2018-06-19 05:28:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 37.029 ms

Loss rate: 0.25%

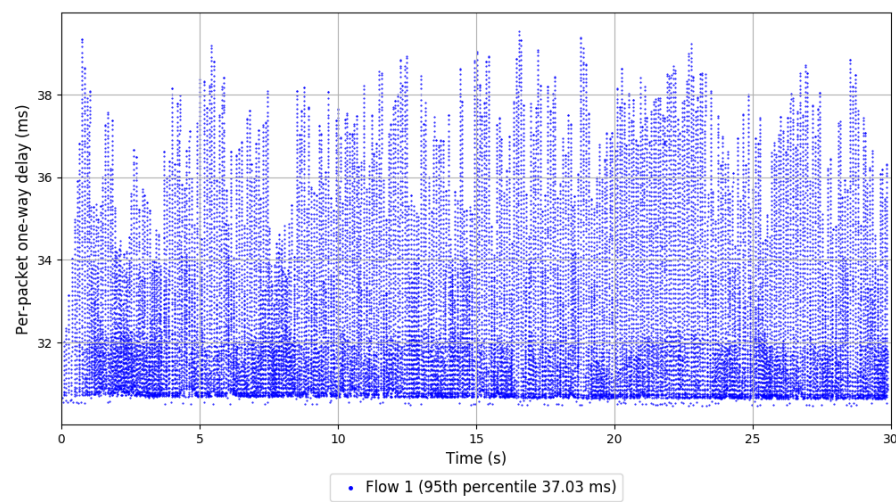
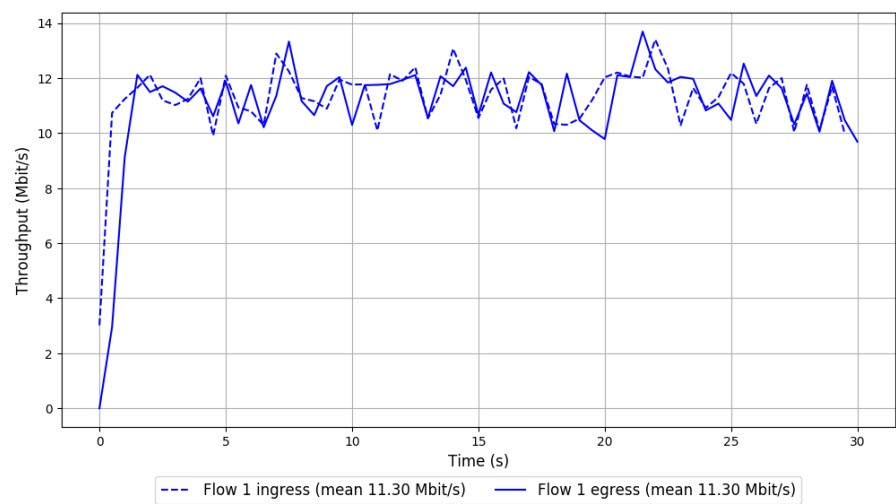
-- Flow 1:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 37.029 ms

Loss rate: 0.25%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-19 03:23:48

End at: 2018-06-19 03:24:18

Local clock offset: 1.268 ms

Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2018-06-19 05:28:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 35.739 ms

Loss rate: 0.03%

-- Flow 1:

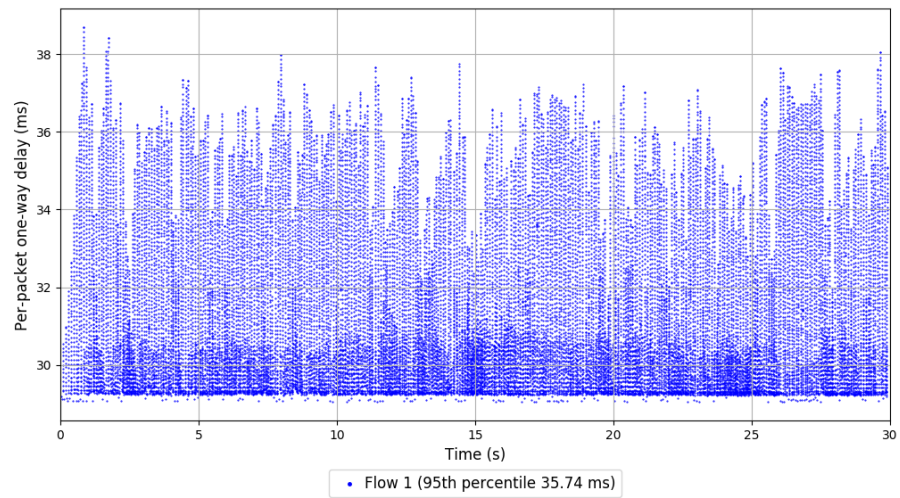
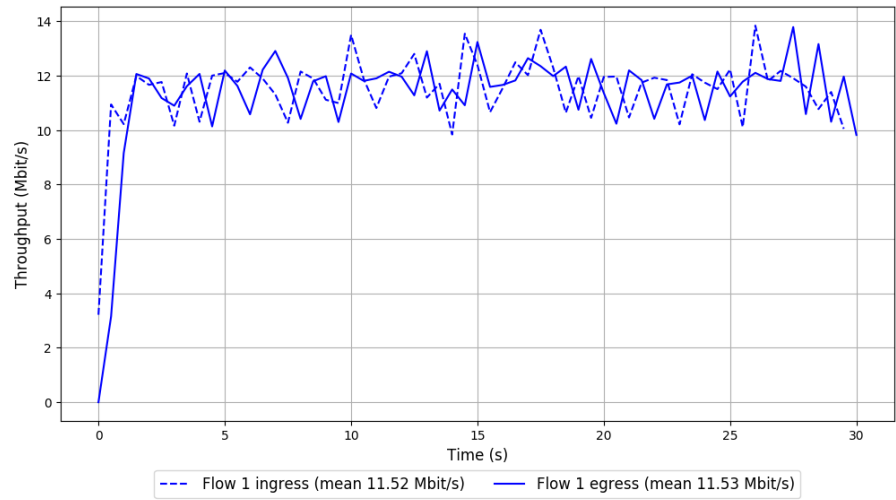
Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 35.739 ms

Loss rate: 0.03%



## Run 5: Report of Sprout — Data Link

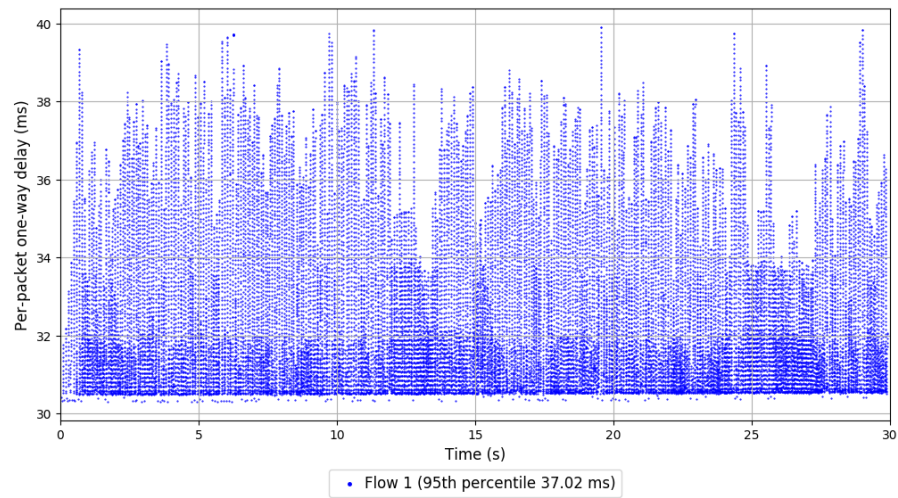
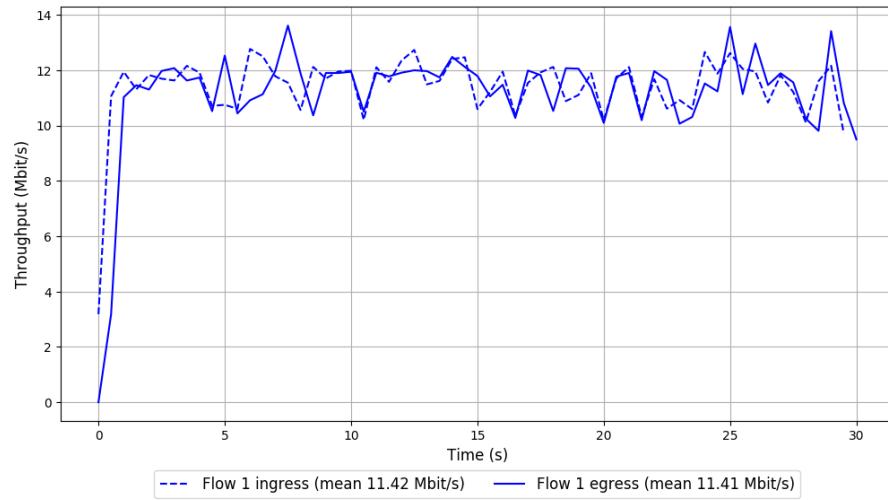


Run 6: Statistics of Sprout

Start at: 2018-06-19 03:44:43  
End at: 2018-06-19 03:45:13  
Local clock offset: -1.533 ms  
Remote clock offset: -0.427 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.41 Mbit/s  
95th percentile per-packet one-way delay: 37.024 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 11.41 Mbit/s  
95th percentile per-packet one-way delay: 37.024 ms  
Loss rate: 0.23%

## Run 6: Report of Sprout — Data Link

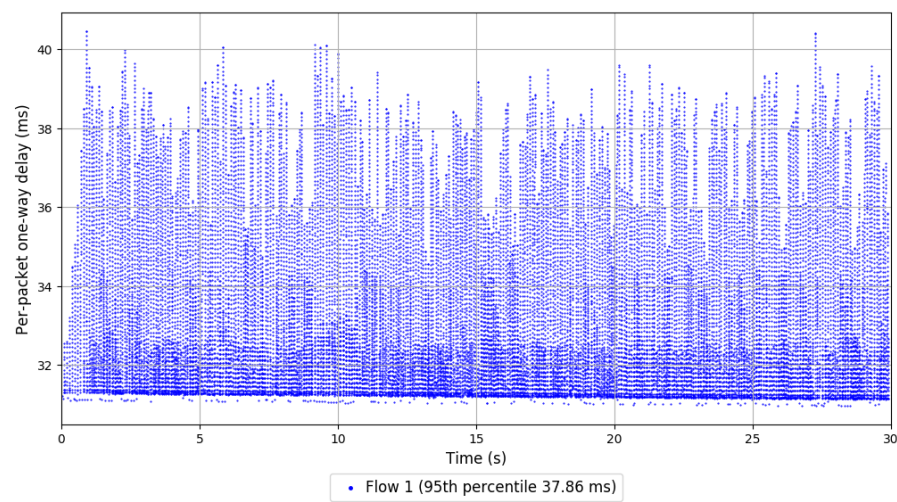
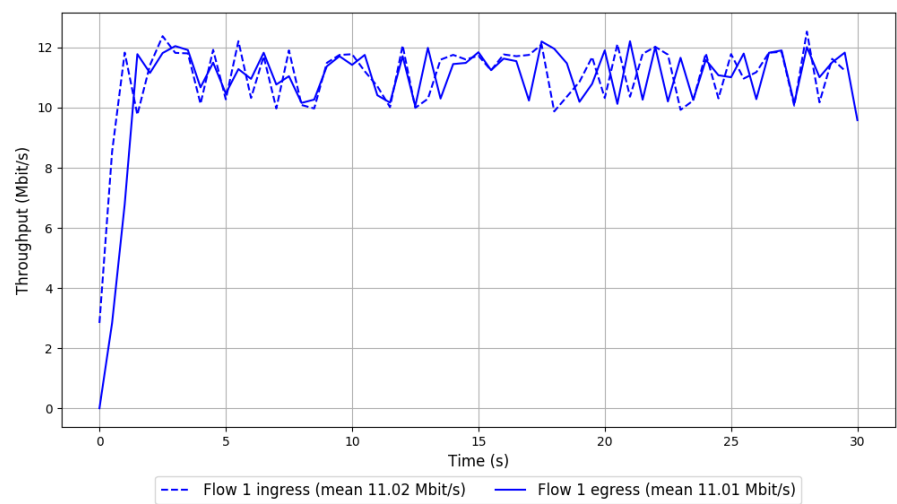


Run 7: Statistics of Sprout

Start at: 2018-06-19 04:05:35  
End at: 2018-06-19 04:06:06  
Local clock offset: -2.397 ms  
Remote clock offset: -1.249 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.01 Mbit/s  
95th percentile per-packet one-way delay: 37.857 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 11.01 Mbit/s  
95th percentile per-packet one-way delay: 37.857 ms  
Loss rate: 0.25%

Run 7: Report of Sprout — Data Link

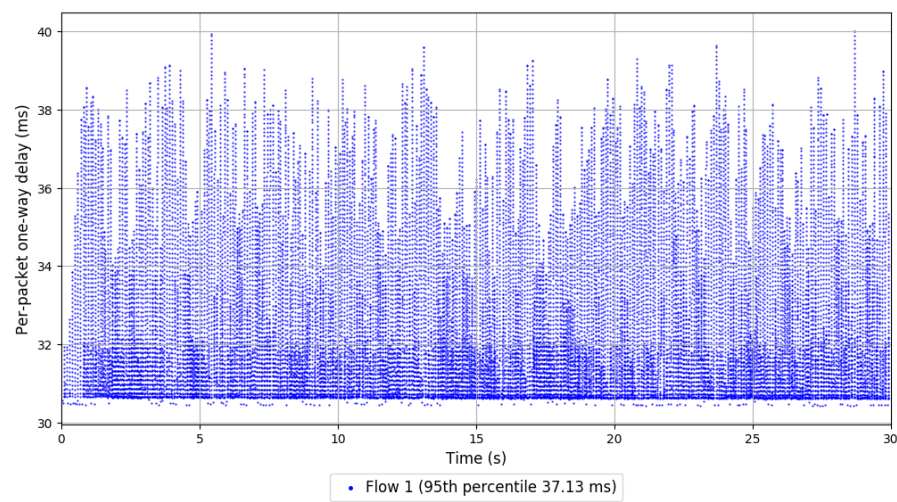
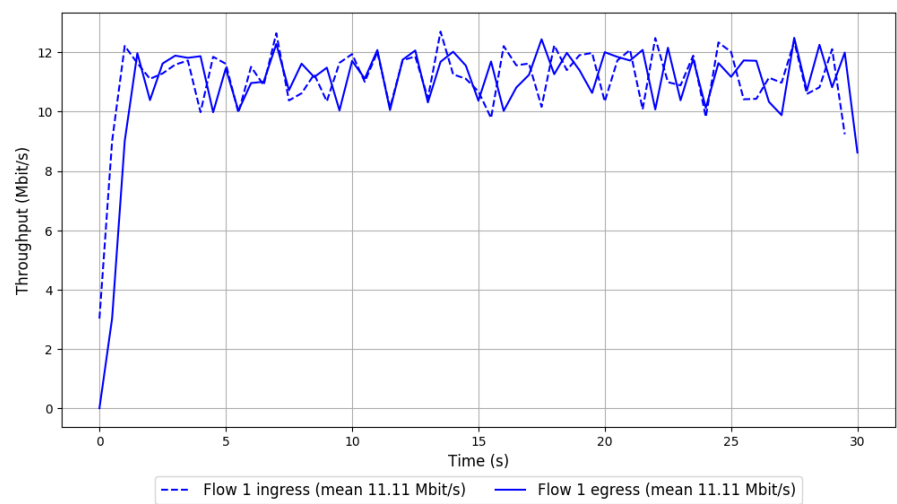


Run 8: Statistics of Sprout

Start at: 2018-06-19 04:26:45  
End at: 2018-06-19 04:27:15  
Local clock offset: 0.207 ms  
Remote clock offset: -1.731 ms

# Below is generated by plot.py at 2018-06-19 05:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.11 Mbit/s  
95th percentile per-packet one-way delay: 37.127 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 11.11 Mbit/s  
95th percentile per-packet one-way delay: 37.127 ms  
Loss rate: 0.11%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-19 04:47:42

End at: 2018-06-19 04:48:12

Local clock offset: 0.664 ms

Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2018-06-19 05:28:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 32.777 ms

Loss rate: 0.27%

-- Flow 1:

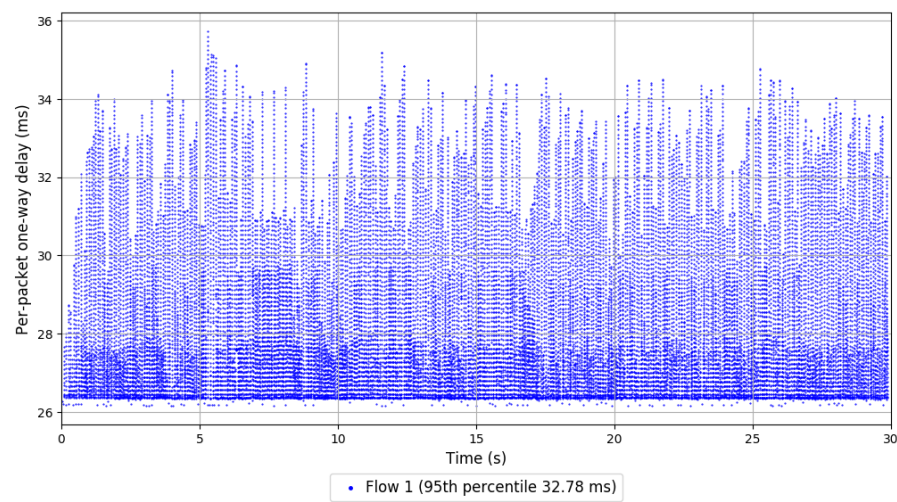
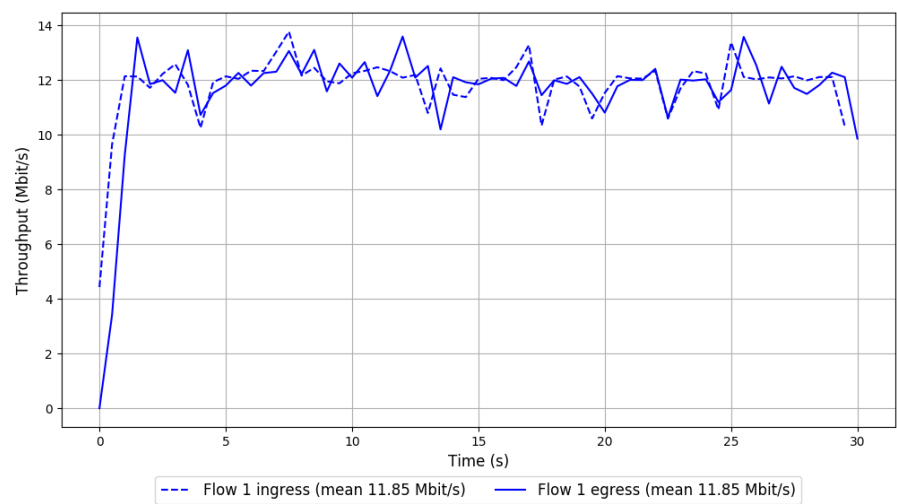
Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 32.777 ms

Loss rate: 0.27%



Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-19 05:08:37

End at: 2018-06-19 05:09:07

Local clock offset: 0.642 ms

Remote clock offset: -2.602 ms

# Below is generated by plot.py at 2018-06-19 05:28:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 39.252 ms

Loss rate: 0.29%

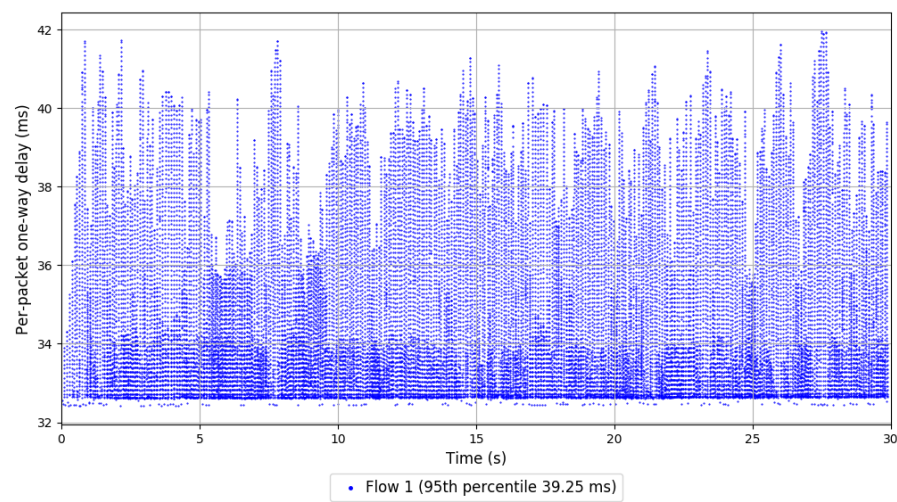
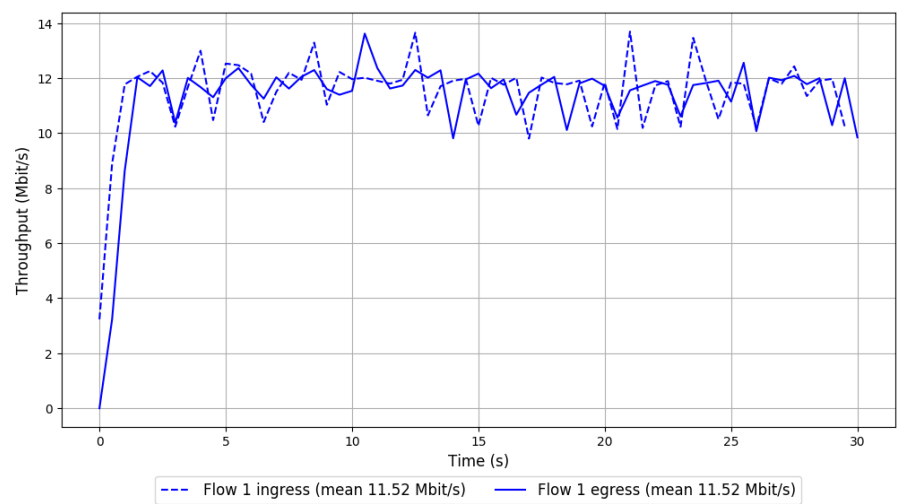
-- Flow 1:

Average throughput: 11.52 Mbit/s

95th percentile per-packet one-way delay: 39.252 ms

Loss rate: 0.29%

Run 10: Report of Sprout — Data Link

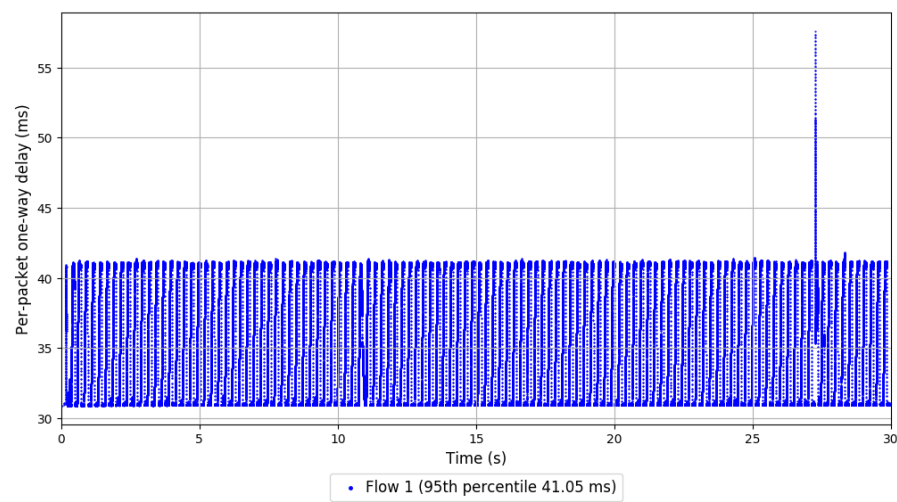
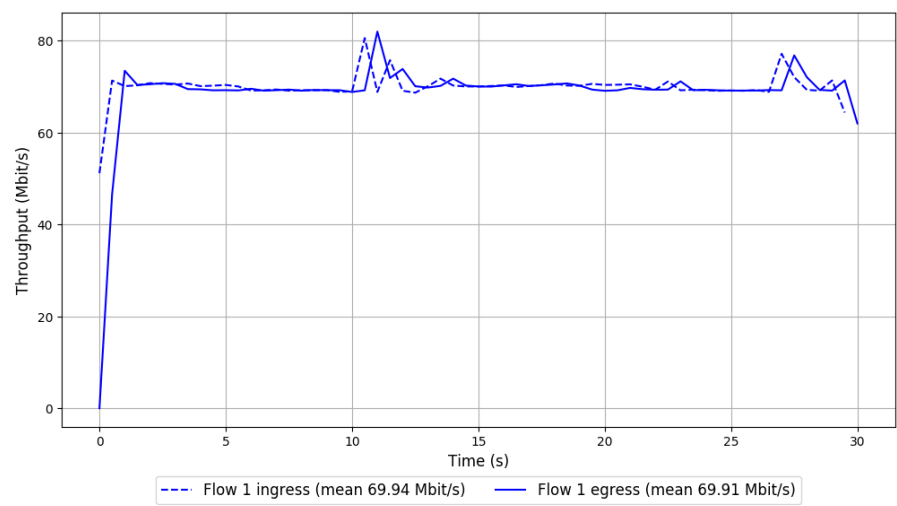


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 01:54:53
End at: 2018-06-19 01:55:23
Local clock offset: -3.022 ms
Remote clock offset: 0.487 ms

# Below is generated by plot.py at 2018-06-19 05:29:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.91 Mbit/s
95th percentile per-packet one-way delay: 41.050 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 69.91 Mbit/s
95th percentile per-packet one-way delay: 41.050 ms
Loss rate: 0.24%
```

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

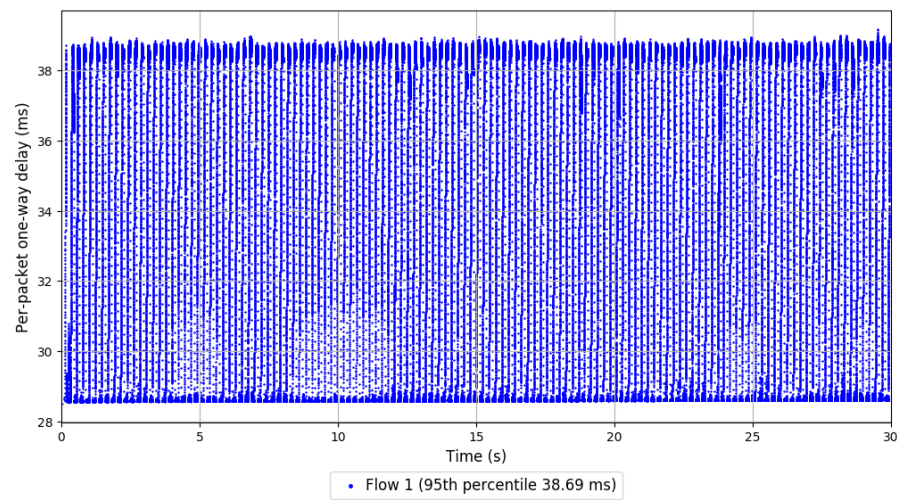
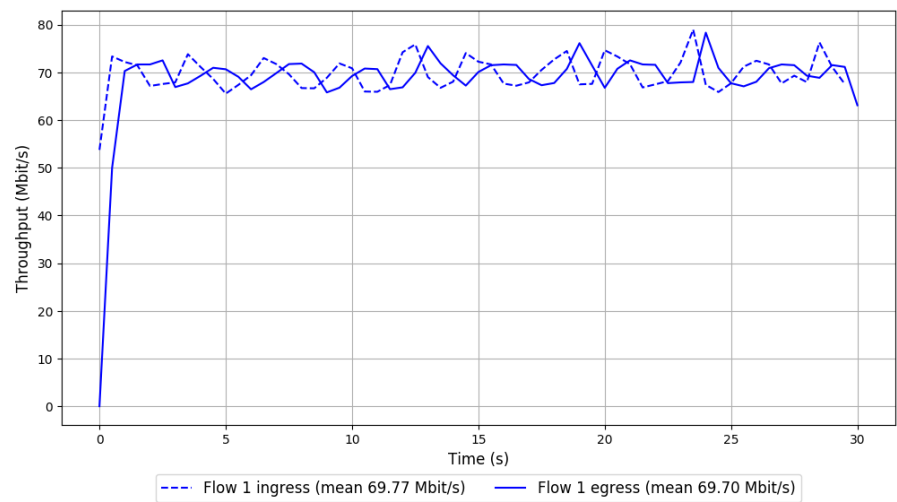


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 02:15:49  
End at: 2018-06-19 02:16:19  
Local clock offset: -4.061 ms  
Remote clock offset: -1.227 ms

# Below is generated by plot.py at 2018-06-19 05:29:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.70 Mbit/s  
95th percentile per-packet one-way delay: 38.689 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 69.70 Mbit/s  
95th percentile per-packet one-way delay: 38.689 ms  
Loss rate: 0.28%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 02:36:44

End at: 2018-06-19 02:37:14

Local clock offset: -3.383 ms

Remote clock offset: 2.119 ms

# Below is generated by plot.py at 2018-06-19 05:29:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 40.211 ms

Loss rate: 0.21%

-- Flow 1:

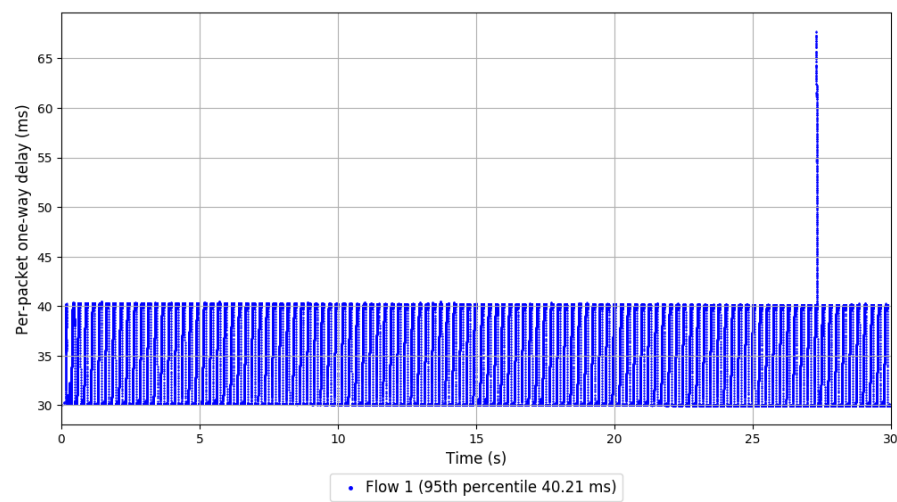
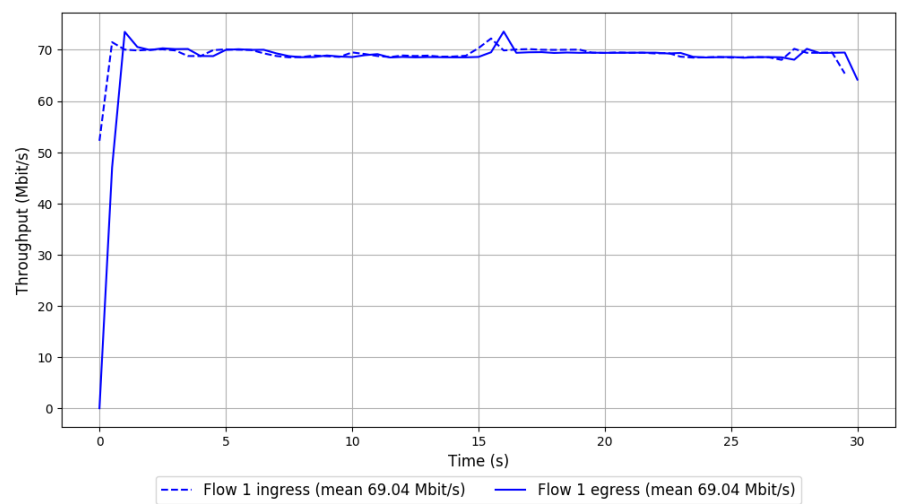
Average throughput: 69.04 Mbit/s

95th percentile per-packet one-way delay: 40.211 ms

Loss rate: 0.21%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 02:57:39

End at: 2018-06-19 02:58:09

Local clock offset: 1.226 ms

Remote clock offset: 0.977 ms

# Below is generated by plot.py at 2018-06-19 05:29:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.25 Mbit/s

95th percentile per-packet one-way delay: 40.028 ms

Loss rate: 0.11%

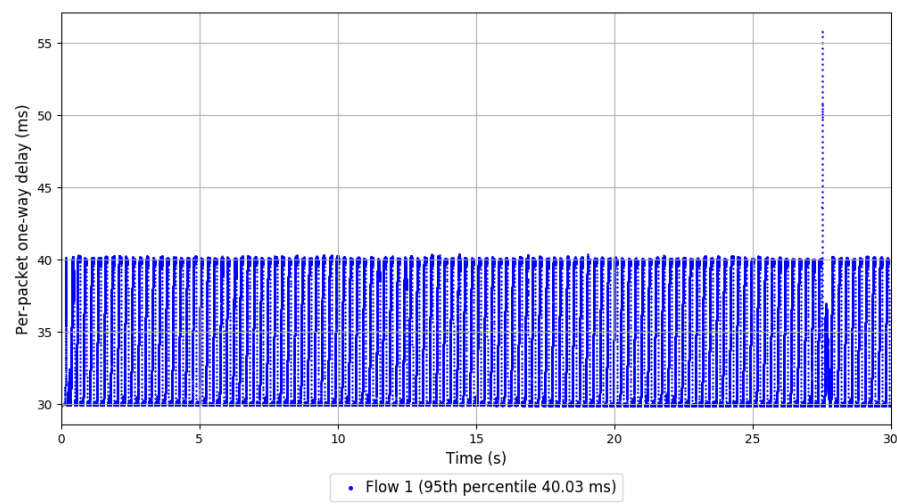
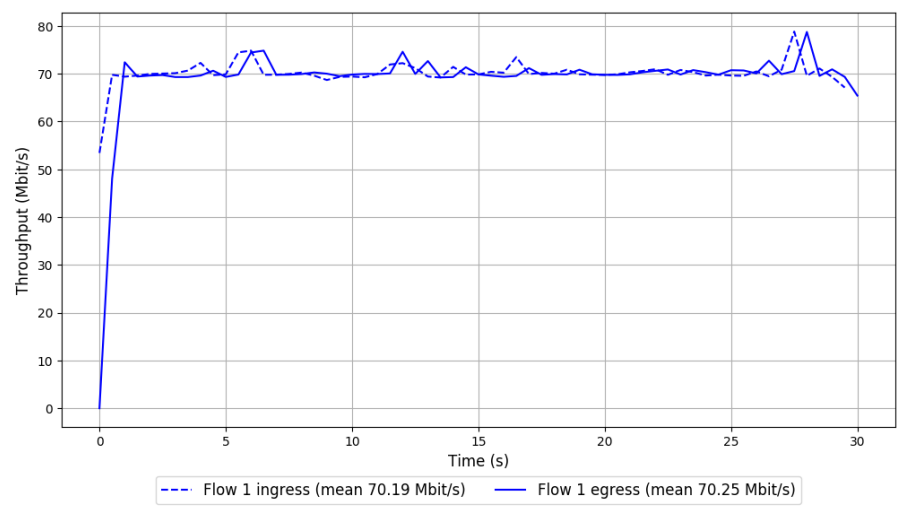
-- Flow 1:

Average throughput: 70.25 Mbit/s

95th percentile per-packet one-way delay: 40.028 ms

Loss rate: 0.11%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 03:18:32

End at: 2018-06-19 03:19:02

Local clock offset: 1.156 ms

Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-06-19 05:29:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 36.385 ms

Loss rate: 0.10%

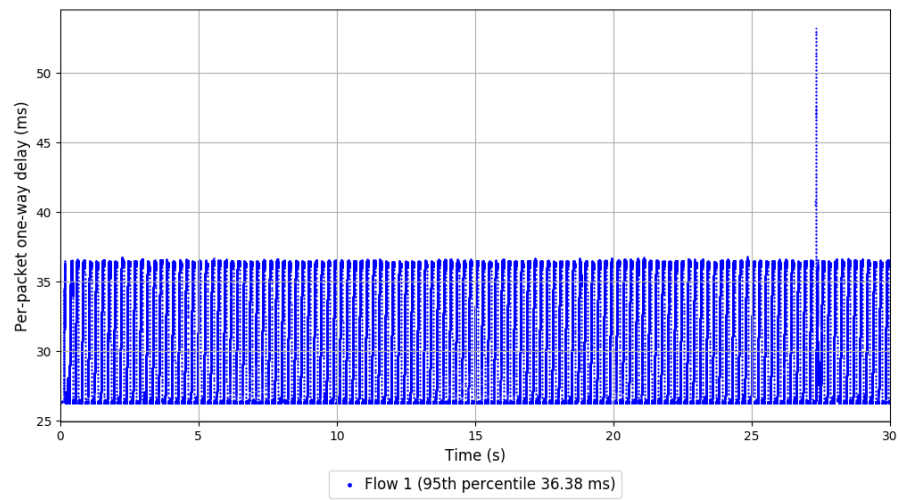
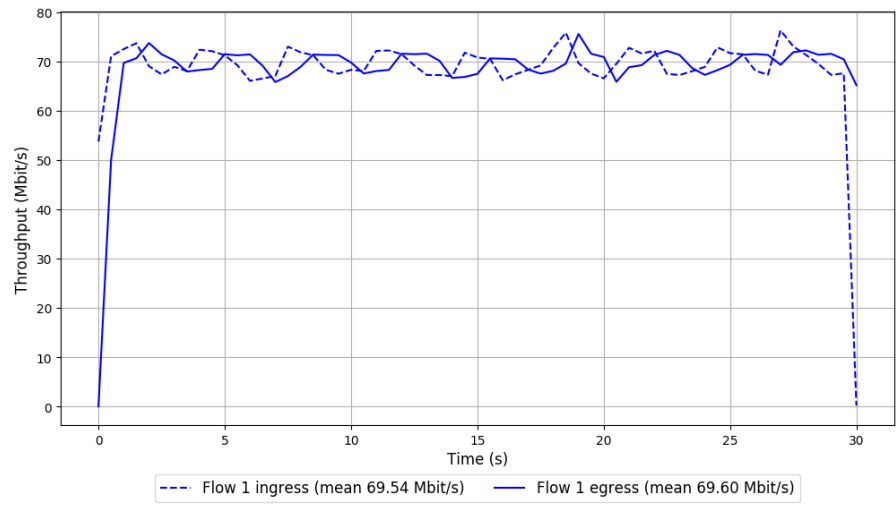
-- Flow 1:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 36.385 ms

Loss rate: 0.10%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 03:39:27

End at: 2018-06-19 03:39:57

Local clock offset: -0.426 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-06-19 05:29:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 36.244 ms

Loss rate: 0.10%

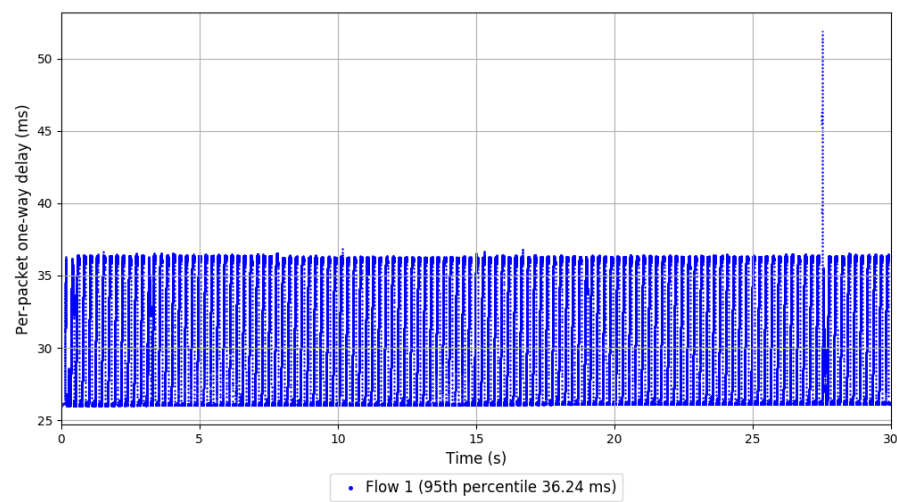
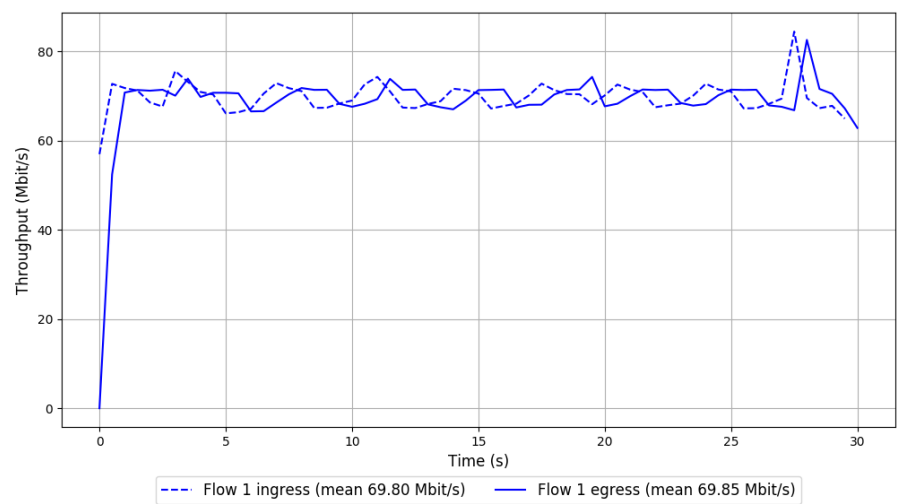
-- Flow 1:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 36.244 ms

Loss rate: 0.10%

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



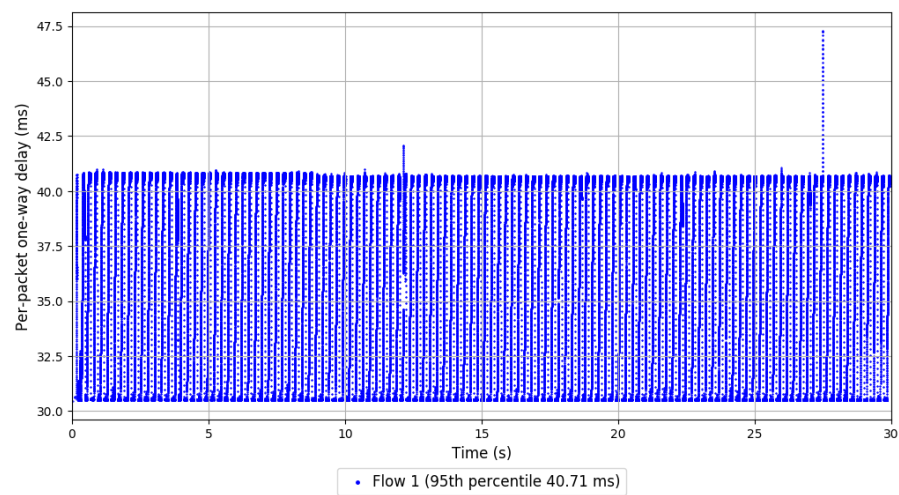
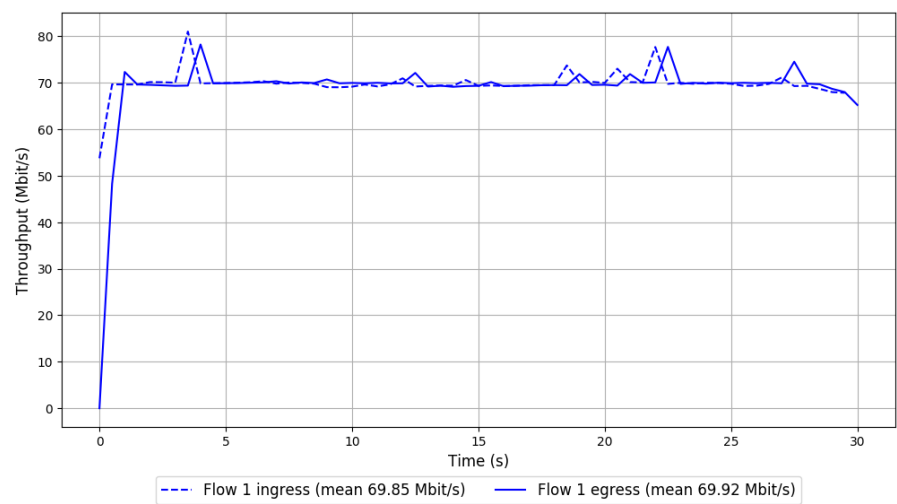
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 04:00:19  
End at: 2018-06-19 04:00:49  
Local clock offset: -2.777 ms  
Remote clock offset: -1.088 ms

# Below is generated by plot.py at 2018-06-19 05:29:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.92 Mbit/s  
95th percentile per-packet one-way delay: 40.710 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 69.92 Mbit/s  
95th percentile per-packet one-way delay: 40.710 ms  
Loss rate: 0.11%



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

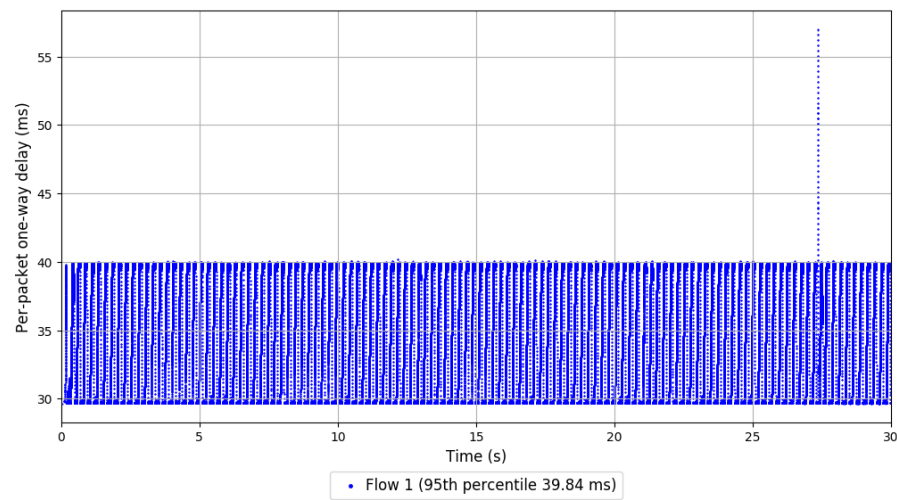
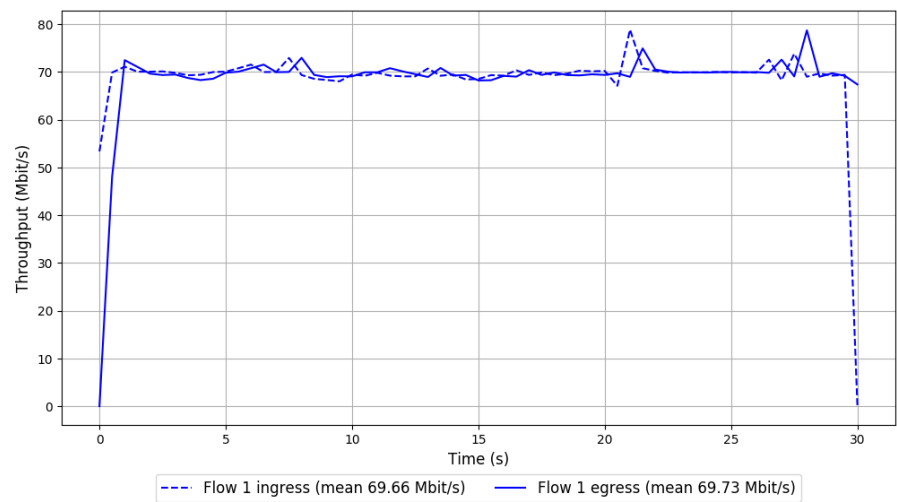


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 04:21:15  
End at: 2018-06-19 04:21:45  
Local clock offset: -0.112 ms  
Remote clock offset: -1.689 ms

# Below is generated by plot.py at 2018-06-19 05:29:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.73 Mbit/s  
95th percentile per-packet one-way delay: 39.844 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 69.73 Mbit/s  
95th percentile per-packet one-way delay: 39.844 ms  
Loss rate: 0.10%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 04:42:25

End at: 2018-06-19 04:42:55

Local clock offset: 0.581 ms

Remote clock offset: -2.921 ms

# Below is generated by plot.py at 2018-06-19 05:31:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.46 Mbit/s

95th percentile per-packet one-way delay: 42.641 ms

Loss rate: 0.32%

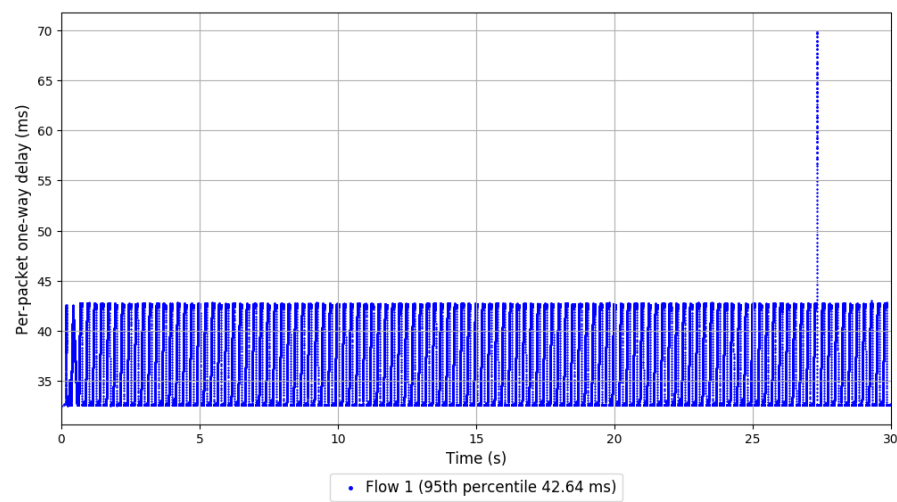
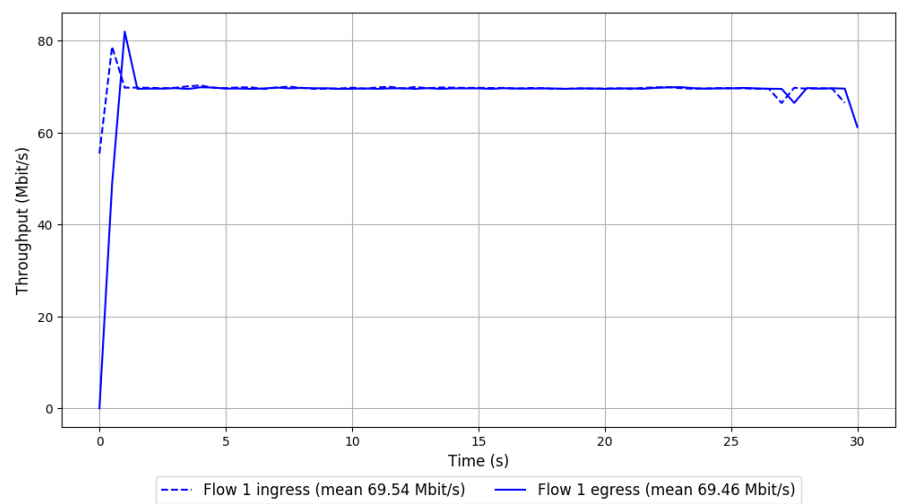
-- Flow 1:

Average throughput: 69.46 Mbit/s

95th percentile per-packet one-way delay: 42.641 ms

Loss rate: 0.32%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 05:03:21

End at: 2018-06-19 05:03:51

Local clock offset: 0.985 ms

Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-19 05:31:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 40.995 ms

Loss rate: 0.11%

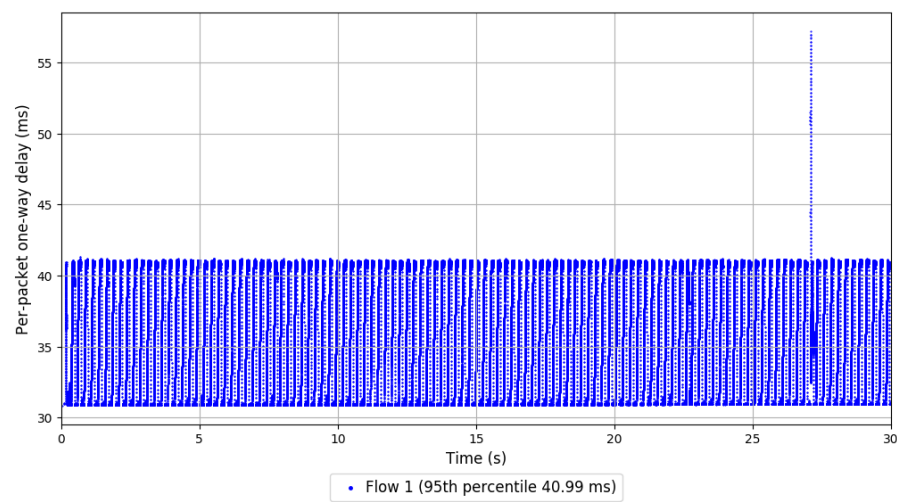
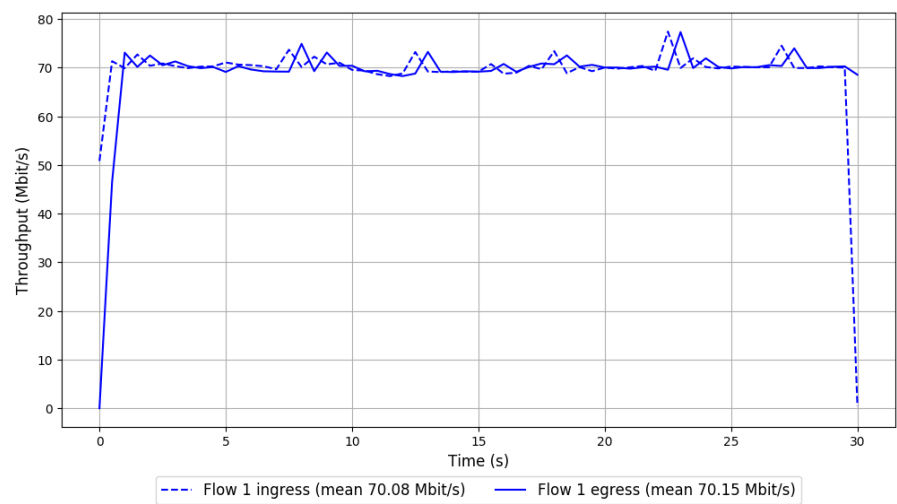
-- Flow 1:

Average throughput: 70.15 Mbit/s

95th percentile per-packet one-way delay: 40.995 ms

Loss rate: 0.11%

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



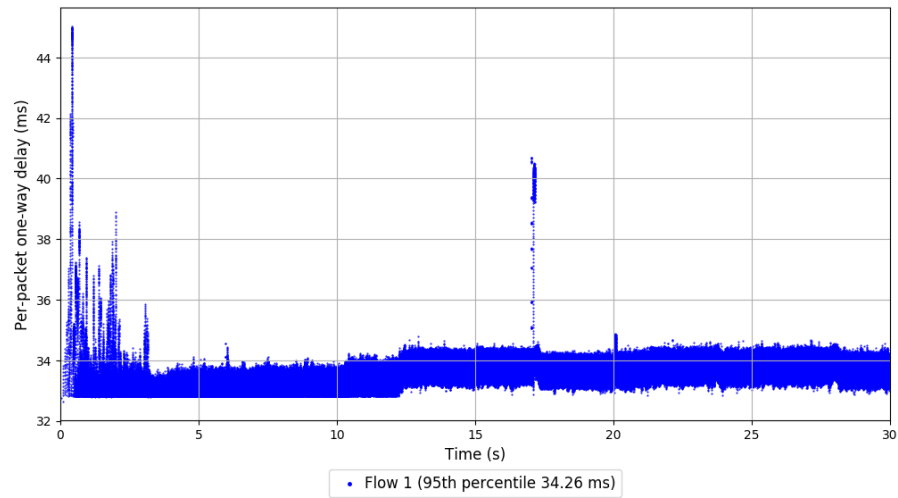
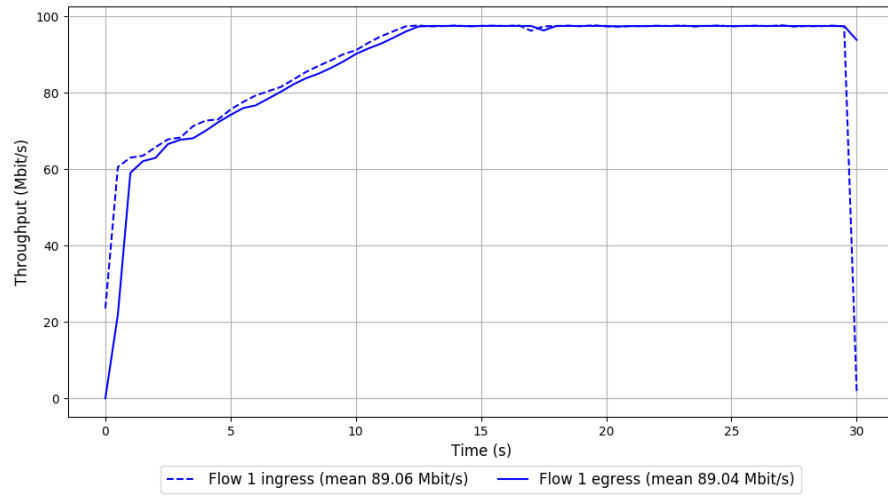
Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 01:57:32  
End at: 2018-06-19 01:58:02  
Local clock offset: -3.106 ms  
Remote clock offset: -1.904 ms

# Below is generated by plot.py at 2018-06-19 05:31:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.04 Mbit/s  
95th percentile per-packet one-way delay: 34.259 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 89.04 Mbit/s  
95th percentile per-packet one-way delay: 34.259 ms  
Loss rate: 0.22%



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

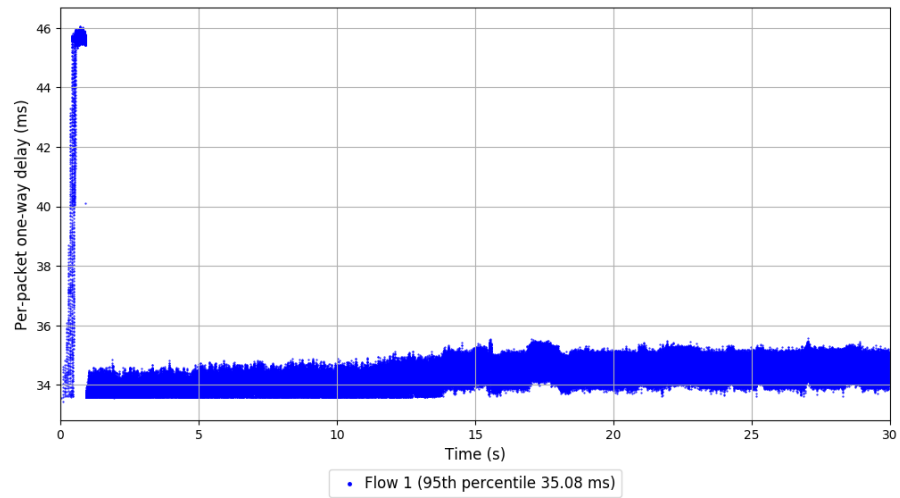
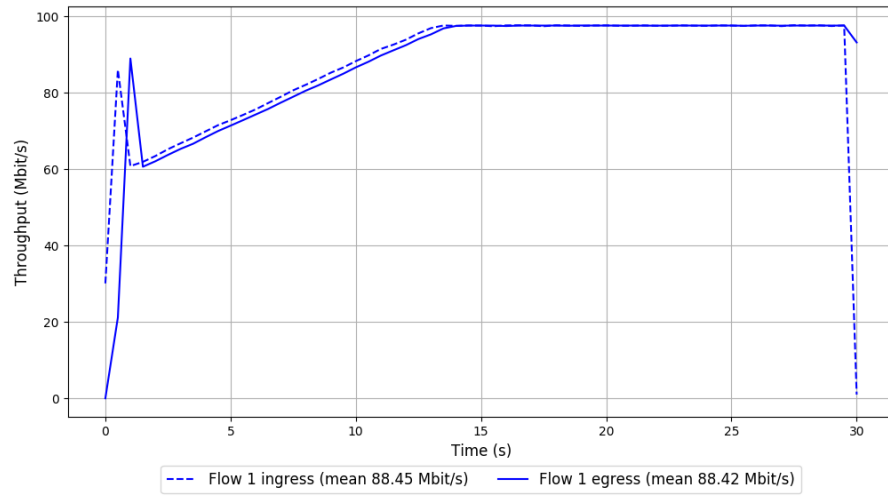


Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 02:18:28  
End at: 2018-06-19 02:18:58  
Local clock offset: -4.192 ms  
Remote clock offset: -1.092 ms

# Below is generated by plot.py at 2018-06-19 05:31:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.42 Mbit/s  
95th percentile per-packet one-way delay: 35.080 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 88.42 Mbit/s  
95th percentile per-packet one-way delay: 35.080 ms  
Loss rate: 0.23%

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

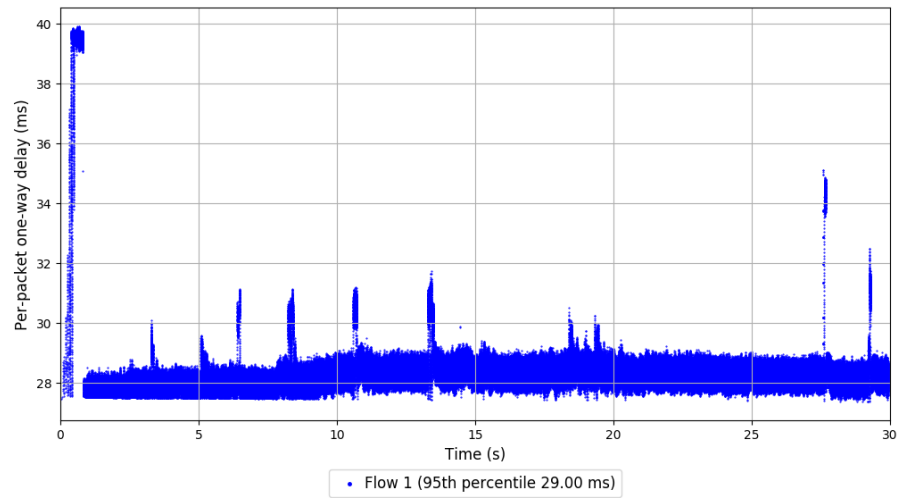
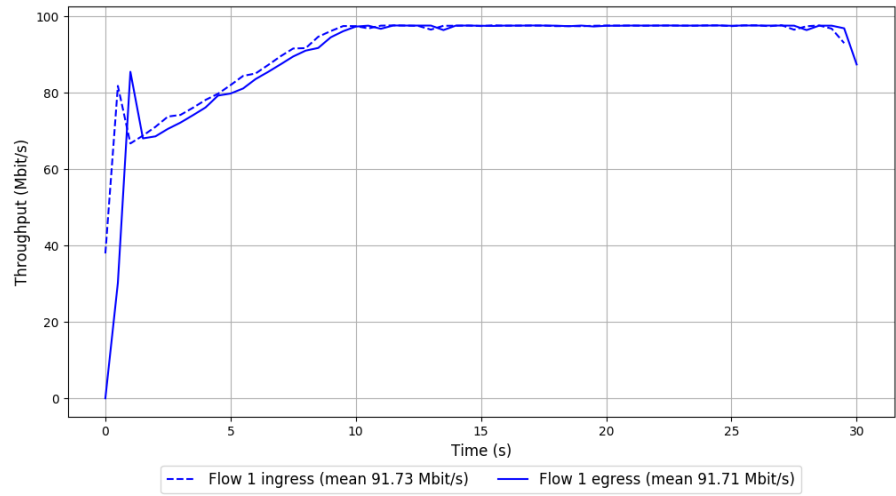


Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 02:39:22  
End at: 2018-06-19 02:39:52  
Local clock offset: -2.258 ms  
Remote clock offset: -0.339 ms

# Below is generated by plot.py at 2018-06-19 05:31:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.71 Mbit/s  
95th percentile per-packet one-way delay: 29.001 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 91.71 Mbit/s  
95th percentile per-packet one-way delay: 29.001 ms  
Loss rate: 0.20%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 03:00:17

End at: 2018-06-19 03:00:47

Local clock offset: 1.381 ms

Remote clock offset: 0.363 ms

# Below is generated by plot.py at 2018-06-19 05:31:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 32.415 ms

Loss rate: 0.21%

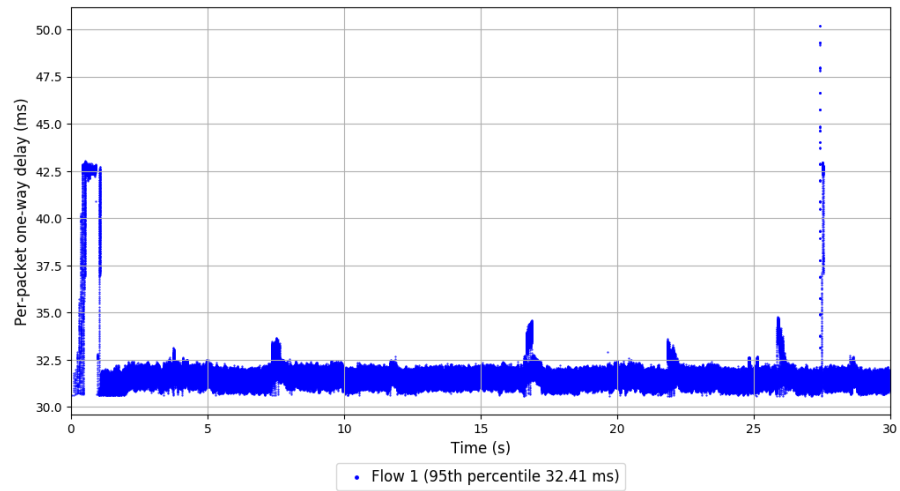
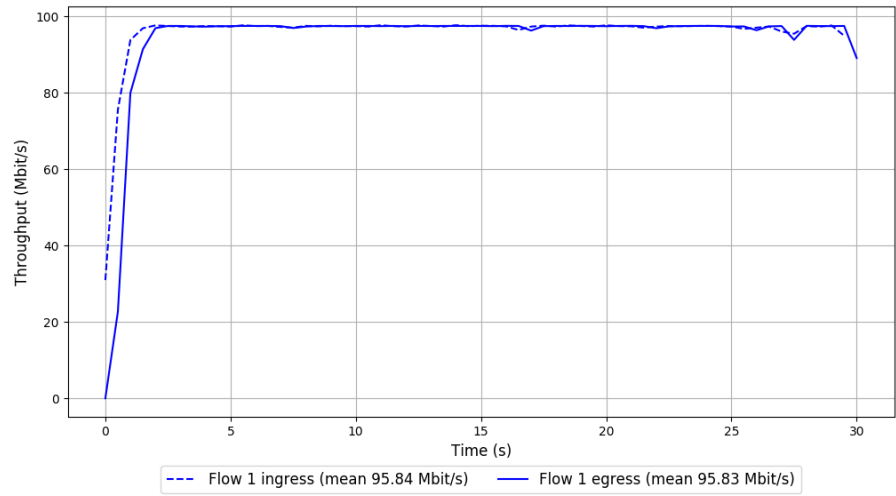
-- Flow 1:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 32.415 ms

Loss rate: 0.21%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 03:21:10

End at: 2018-06-19 03:21:40

Local clock offset: 1.274 ms

Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2018-06-19 05:31:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 31.322 ms

Loss rate: 0.22%

-- Flow 1:

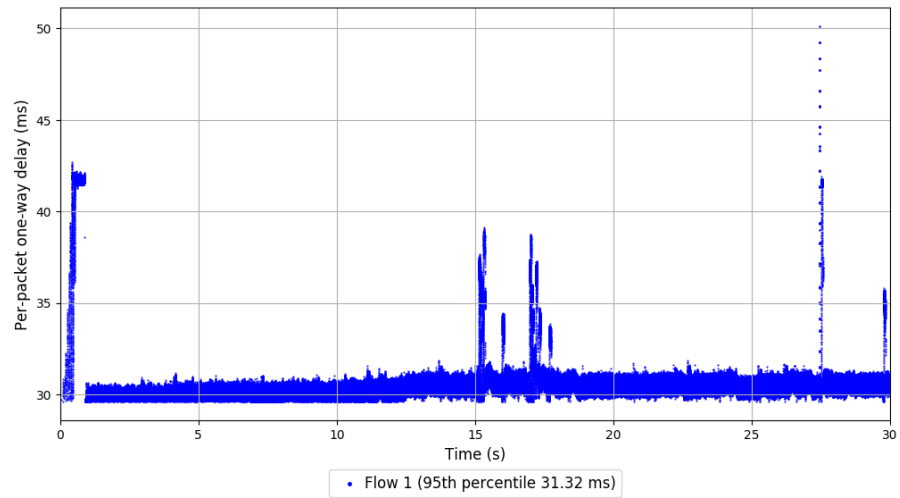
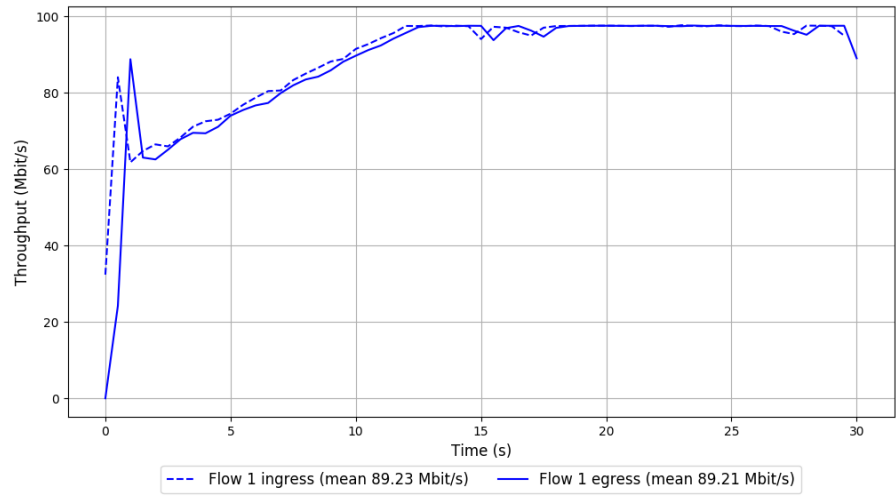
Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 31.322 ms

Loss rate: 0.22%



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

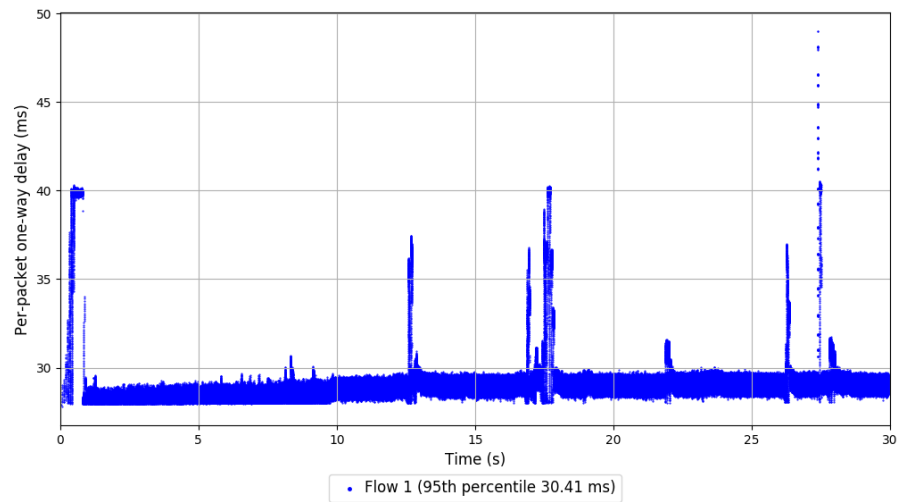
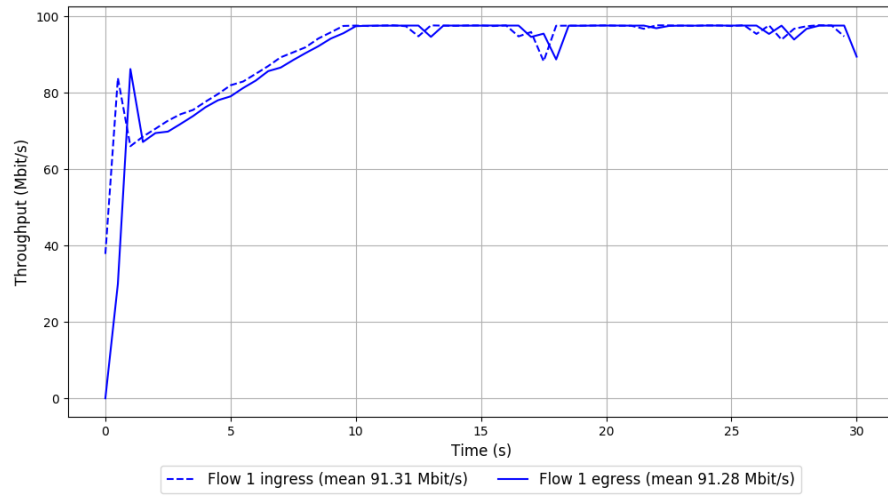


Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 03:42:05  
End at: 2018-06-19 03:42:35  
Local clock offset: -1.04 ms  
Remote clock offset: -2.555 ms

# Below is generated by plot.py at 2018-06-19 05:31:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.28 Mbit/s  
95th percentile per-packet one-way delay: 30.411 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 91.28 Mbit/s  
95th percentile per-packet one-way delay: 30.411 ms  
Loss rate: 0.21%

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

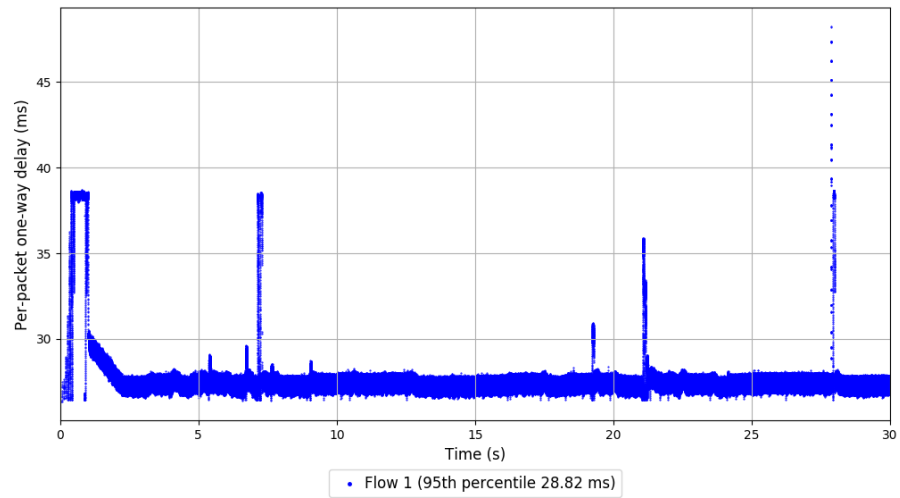
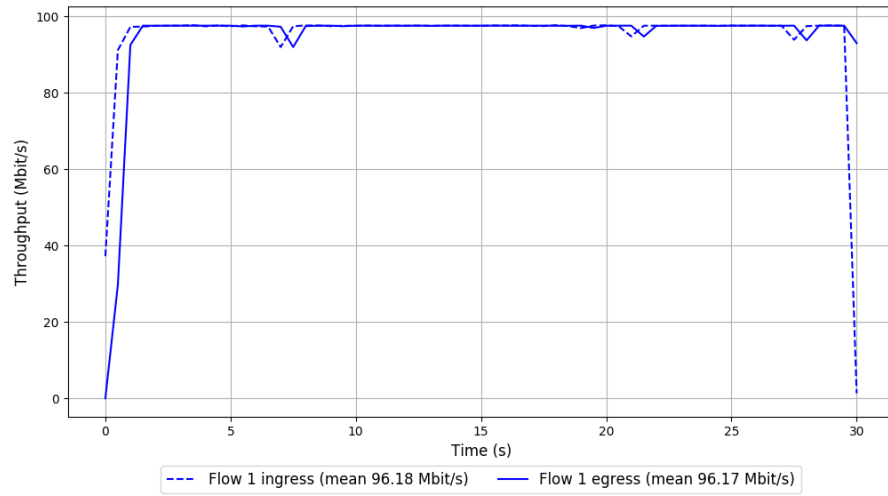


Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 04:02:57  
End at: 2018-06-19 04:03:28  
Local clock offset: -2.866 ms  
Remote clock offset: -1.213 ms

# Below is generated by plot.py at 2018-06-19 05:31:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.17 Mbit/s  
95th percentile per-packet one-way delay: 28.818 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 96.17 Mbit/s  
95th percentile per-packet one-way delay: 28.818 ms  
Loss rate: 0.20%

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

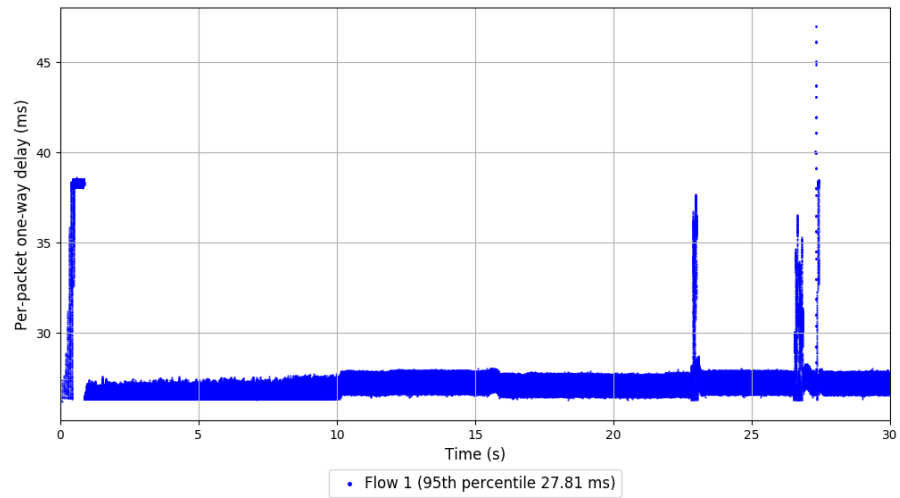
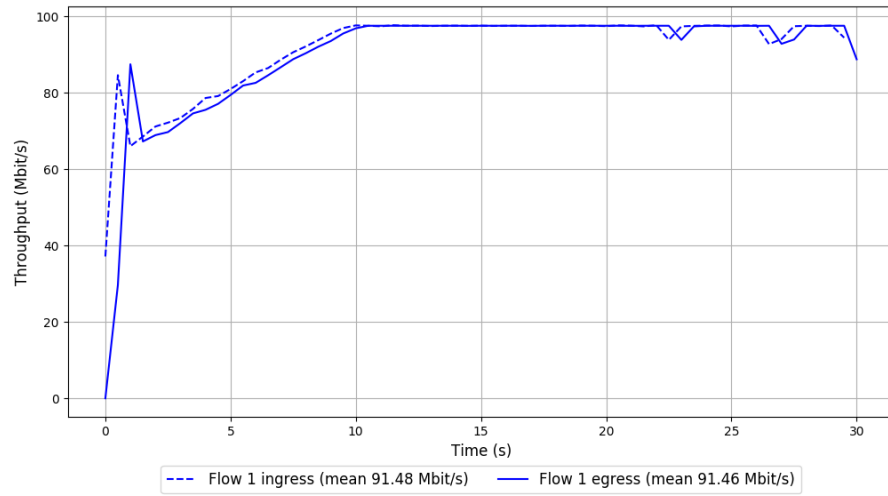


Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 04:24:07  
End at: 2018-06-19 04:24:37  
Local clock offset: 0.149 ms  
Remote clock offset: -1.701 ms

# Below is generated by plot.py at 2018-06-19 05:31:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.46 Mbit/s  
95th percentile per-packet one-way delay: 27.808 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 91.46 Mbit/s  
95th percentile per-packet one-way delay: 27.808 ms  
Loss rate: 0.20%

# Run 8: Report of TCP Vegas — Data Link



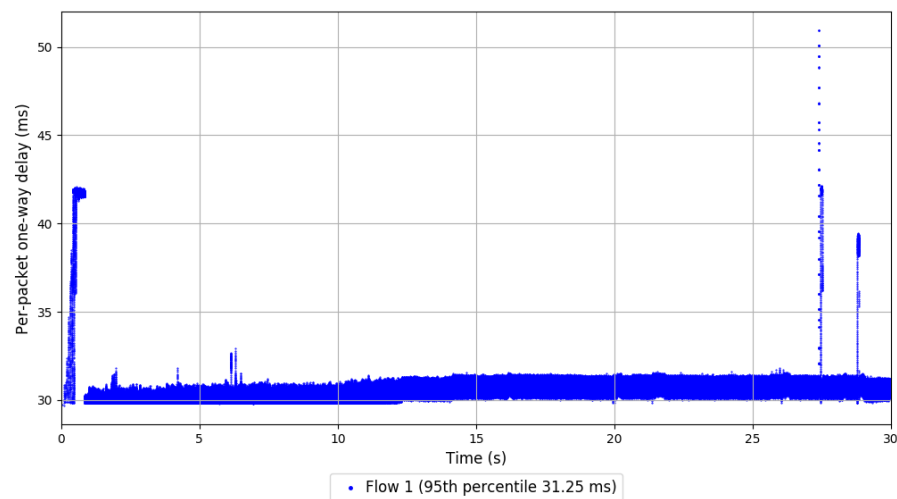
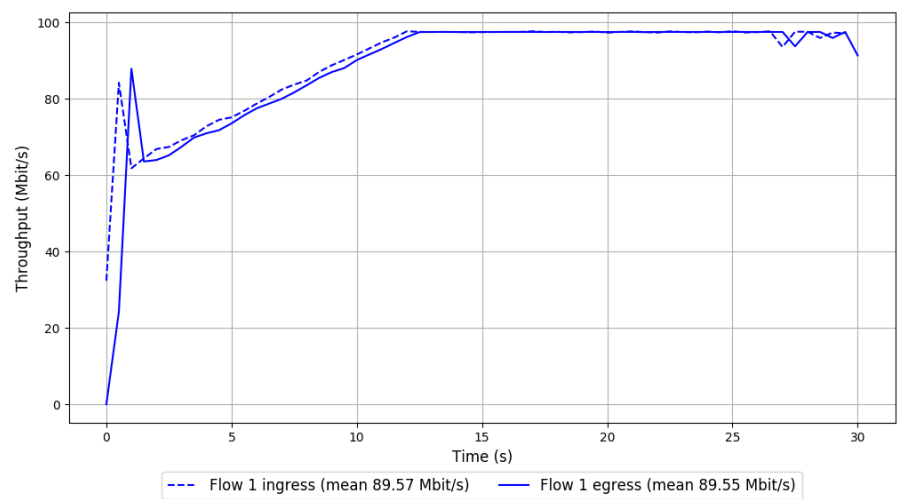
Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 04:45:03  
End at: 2018-06-19 04:45:33  
Local clock offset: 0.639 ms  
Remote clock offset: -0.757 ms

# Below is generated by plot.py at 2018-06-19 05:31:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.55 Mbit/s  
95th percentile per-packet one-way delay: 31.255 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 89.55 Mbit/s  
95th percentile per-packet one-way delay: 31.255 ms  
Loss rate: 0.22%



Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 05:06:00

End at: 2018-06-19 05:06:30

Local clock offset: 0.818 ms

Remote clock offset: -0.535 ms

# Below is generated by plot.py at 2018-06-19 05:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.51 Mbit/s

95th percentile per-packet one-way delay: 31.274 ms

Loss rate: 0.22%

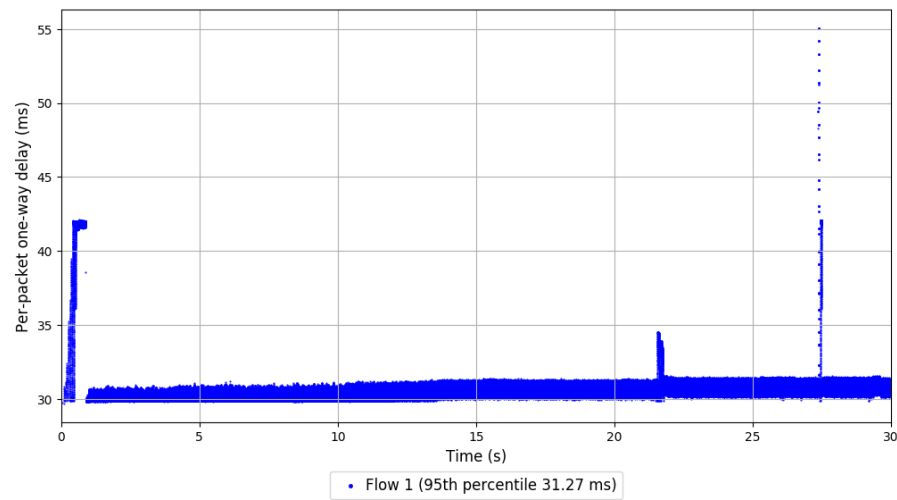
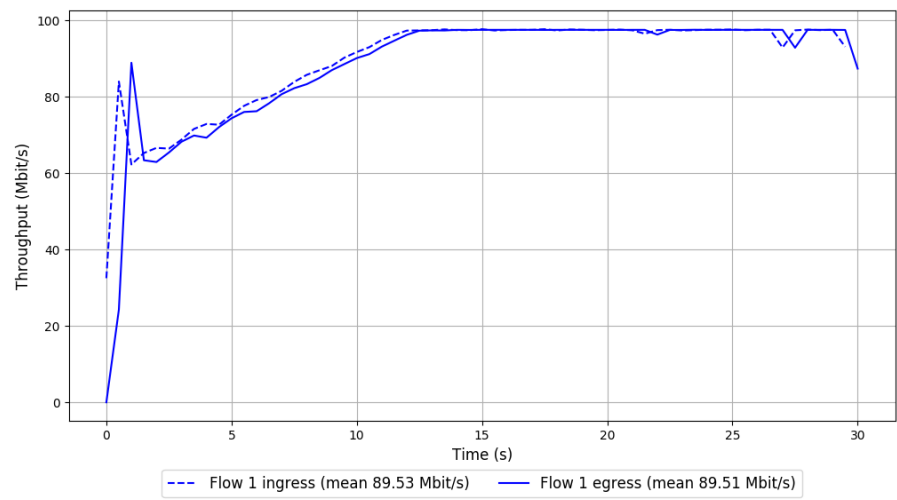
-- Flow 1:

Average throughput: 89.51 Mbit/s

95th percentile per-packet one-way delay: 31.274 ms

Loss rate: 0.22%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-19 01:48:14

End at: 2018-06-19 01:48:44

Local clock offset: -2.371 ms

Remote clock offset: -2.36 ms

# Below is generated by plot.py at 2018-06-19 05:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 44.949 ms

Loss rate: 0.41%

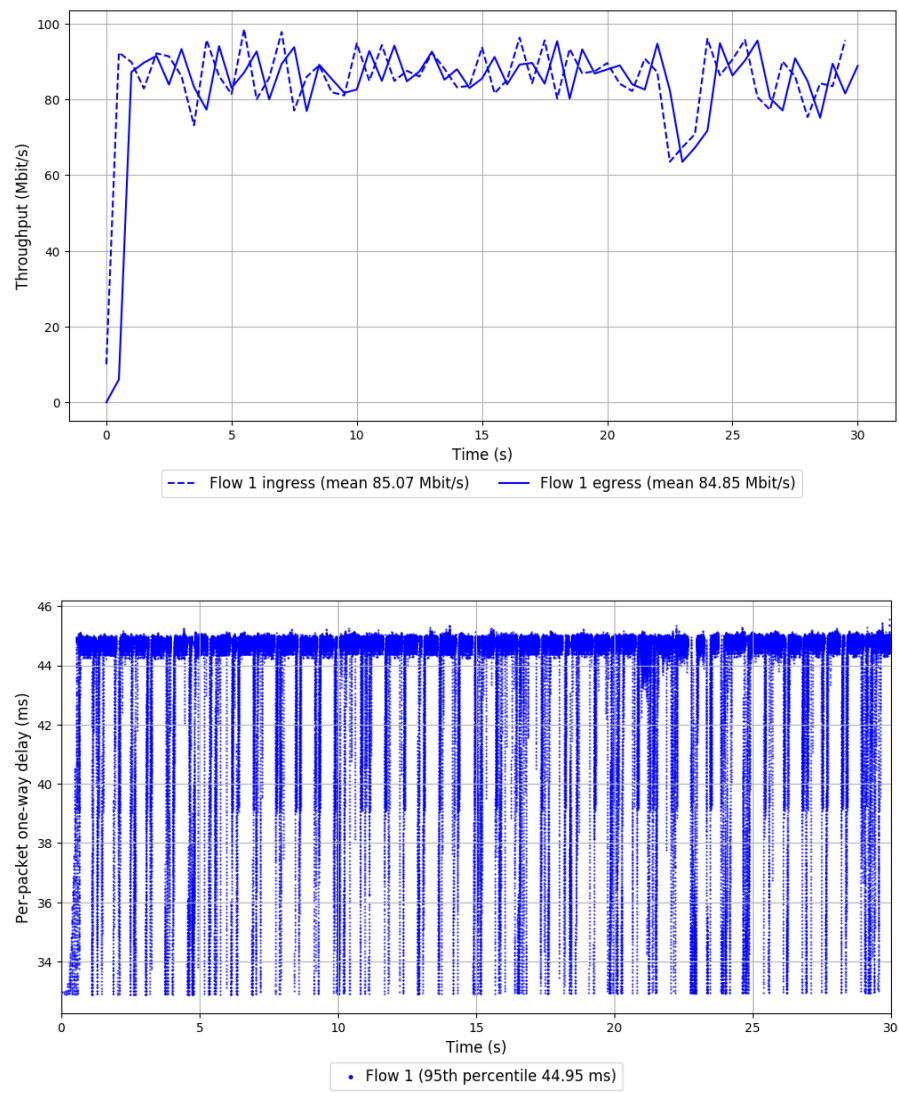
-- Flow 1:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 44.949 ms

Loss rate: 0.41%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-19 02:09:10

End at: 2018-06-19 02:09:40

Local clock offset: -3.75 ms

Remote clock offset: 1.166 ms

# Below is generated by plot.py at 2018-06-19 05:32:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 37.284 ms

Loss rate: 0.37%

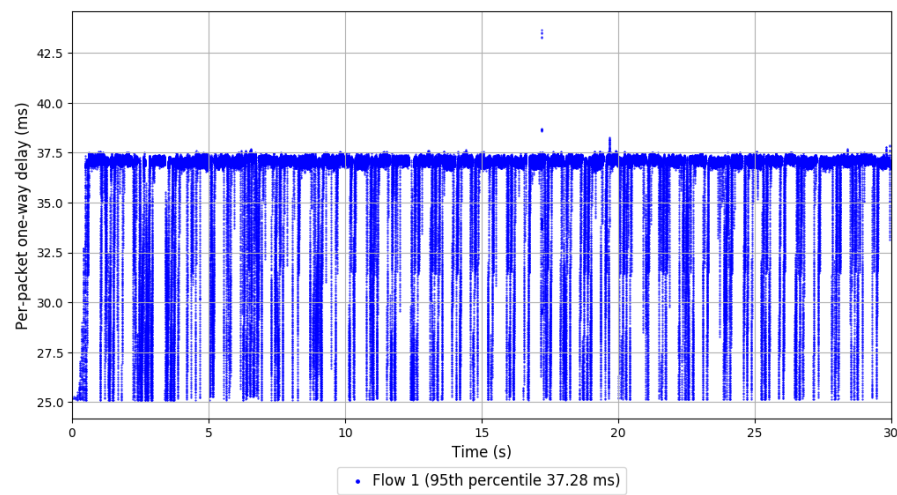
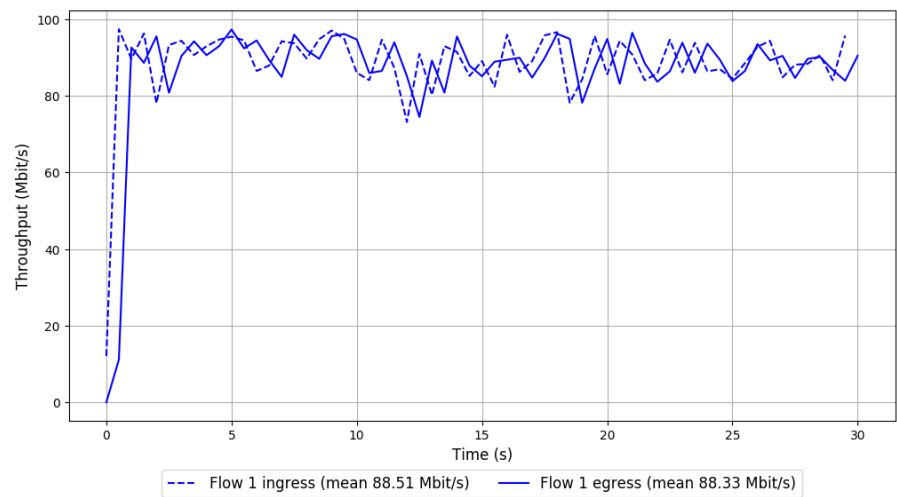
-- Flow 1:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 37.284 ms

Loss rate: 0.37%

Run 2: Report of Verus — Data Link



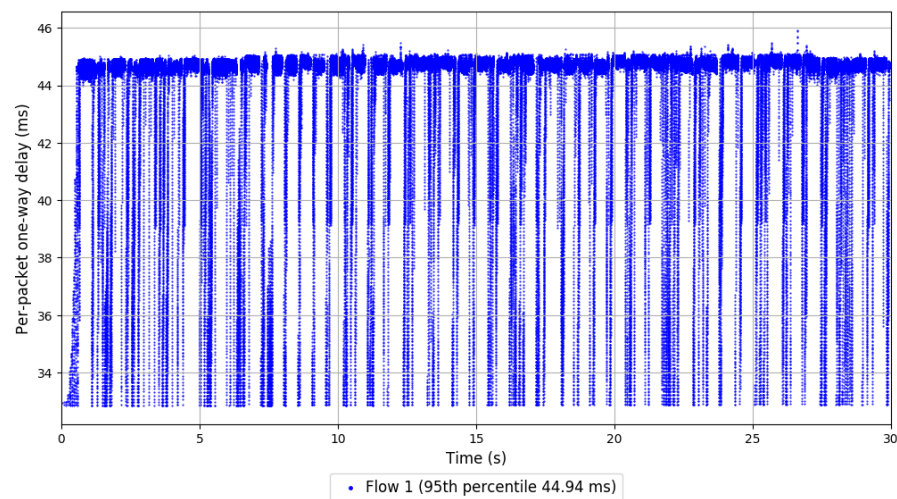
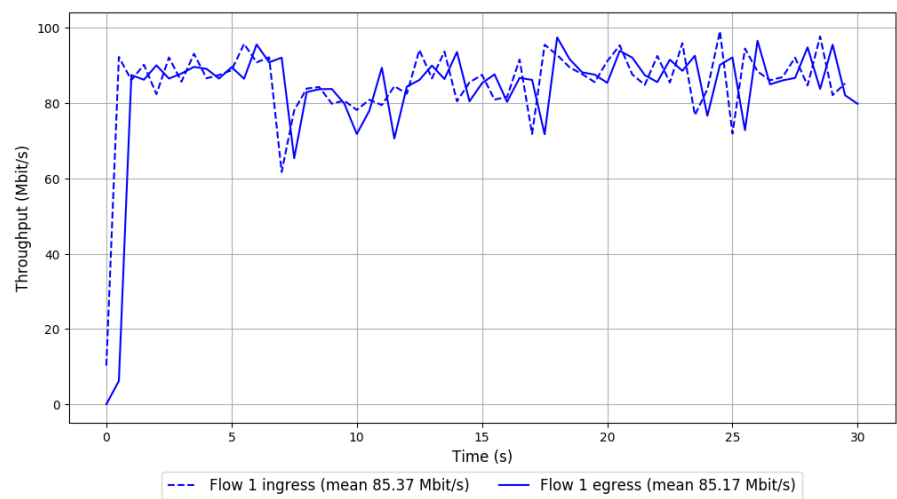
Run 3: Statistics of Verus

Start at: 2018-06-19 02:30:05  
End at: 2018-06-19 02:30:35  
Local clock offset: -4.753 ms  
Remote clock offset: -0.686 ms

# Below is generated by plot.py at 2018-06-19 05:32:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.17 Mbit/s  
95th percentile per-packet one-way delay: 44.940 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 85.17 Mbit/s  
95th percentile per-packet one-way delay: 44.940 ms  
Loss rate: 0.44%



Run 3: Report of Verus — Data Link

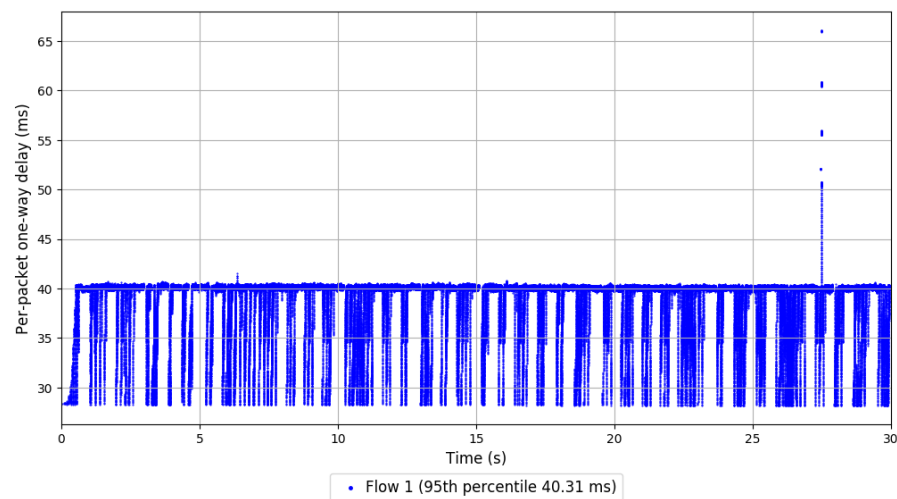
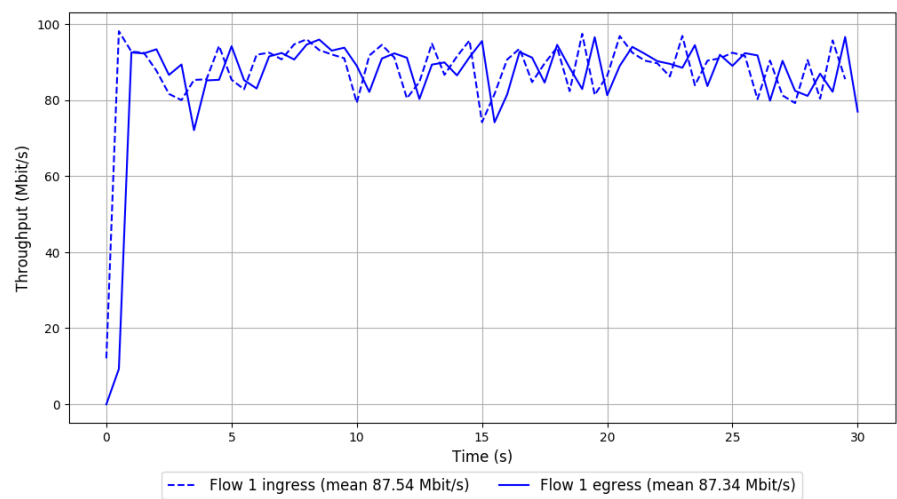


Run 4: Statistics of Verus

Start at: 2018-06-19 02:51:00  
End at: 2018-06-19 02:51:30  
Local clock offset: 0.396 ms  
Remote clock offset: -0.788 ms

# Below is generated by plot.py at 2018-06-19 05:32:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.34 Mbit/s  
95th percentile per-packet one-way delay: 40.315 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 87.34 Mbit/s  
95th percentile per-packet one-way delay: 40.315 ms  
Loss rate: 0.41%

Run 4: Report of Verus — Data Link

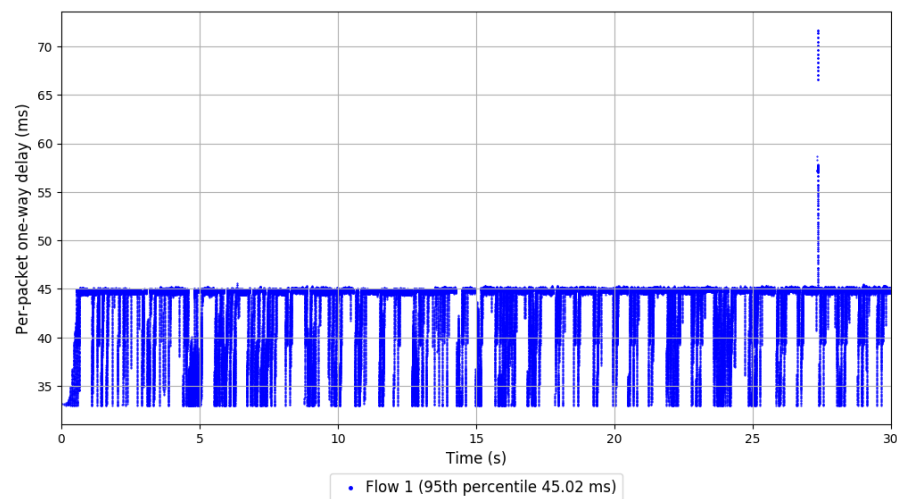
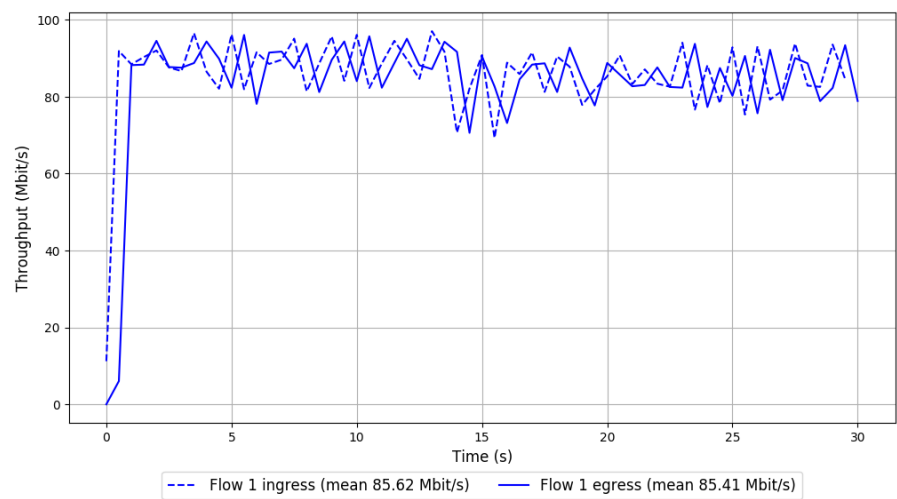


Run 5: Statistics of Verus

Start at: 2018-06-19 03:11:54  
End at: 2018-06-19 03:12:24  
Local clock offset: 1.253 ms  
Remote clock offset: -2.084 ms

# Below is generated by plot.py at 2018-06-19 05:33:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.41 Mbit/s  
95th percentile per-packet one-way delay: 45.019 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 85.41 Mbit/s  
95th percentile per-packet one-way delay: 45.019 ms  
Loss rate: 0.45%

Run 5: Report of Verus — Data Link

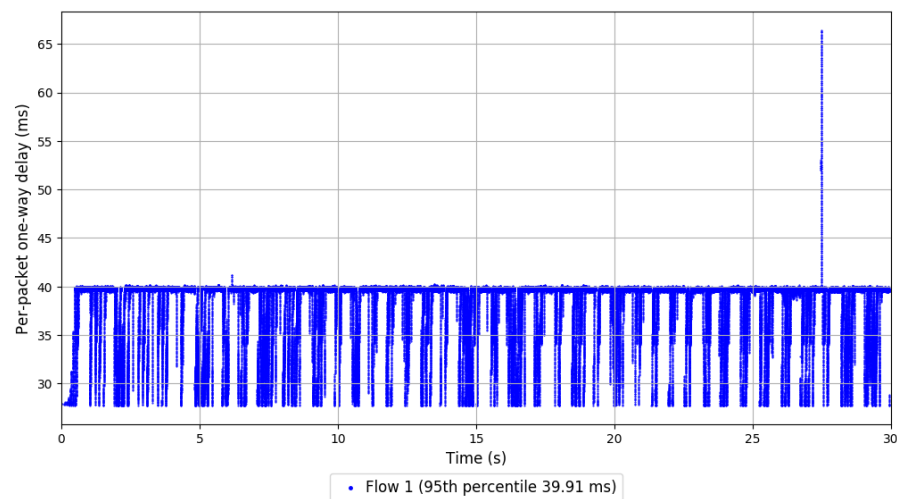
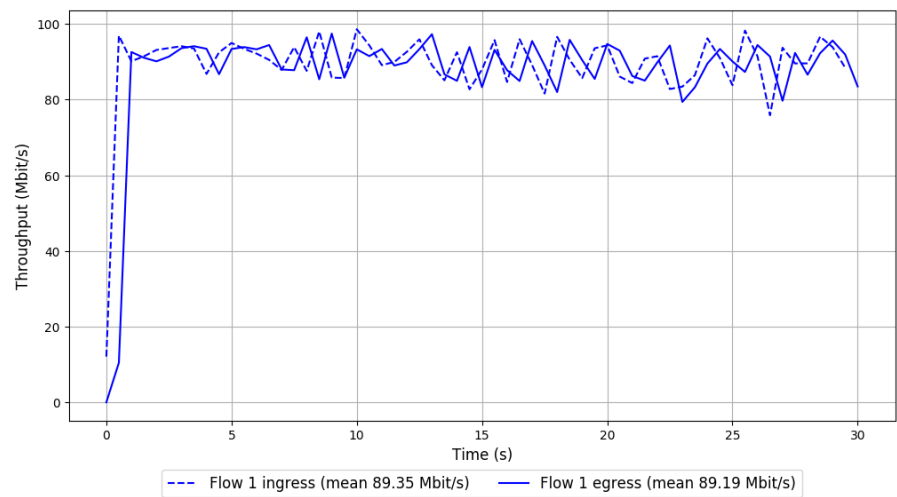


Run 6: Statistics of Verus

Start at: 2018-06-19 03:32:47  
End at: 2018-06-19 03:33:17  
Local clock offset: 1.531 ms  
Remote clock offset: -2.467 ms

# Below is generated by plot.py at 2018-06-19 05:33:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.19 Mbit/s  
95th percentile per-packet one-way delay: 39.911 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 89.19 Mbit/s  
95th percentile per-packet one-way delay: 39.911 ms  
Loss rate: 0.37%

Run 6: Report of Verus — Data Link



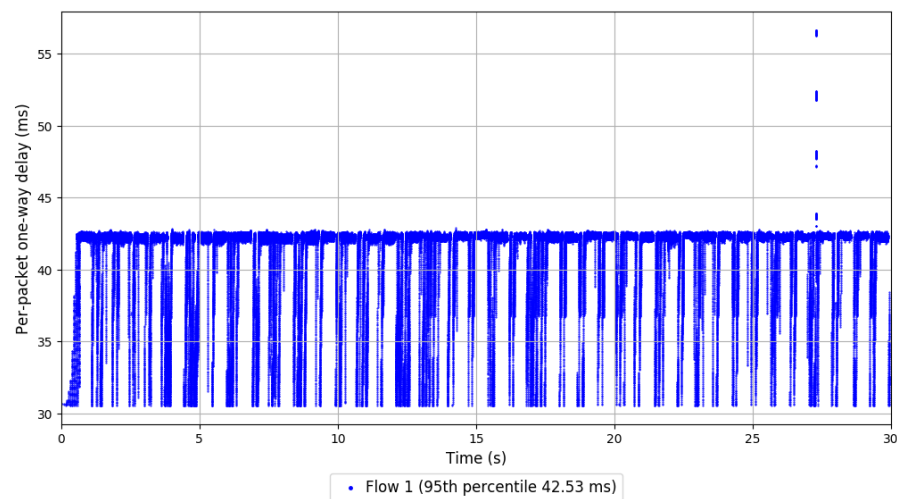
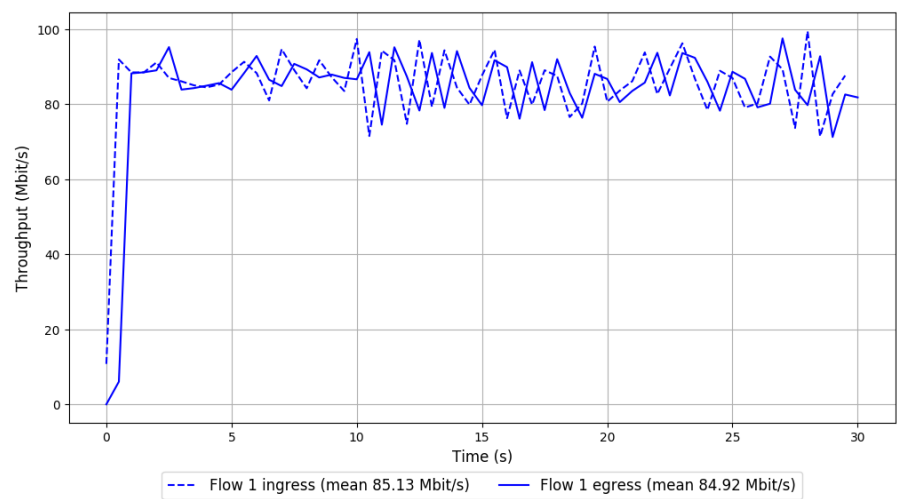
Run 7: Statistics of Verus

Start at: 2018-06-19 03:53:42  
End at: 2018-06-19 03:54:12  
Local clock offset: -2.416 ms  
Remote clock offset: -0.702 ms

# Below is generated by plot.py at 2018-06-19 05:33:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.92 Mbit/s  
95th percentile per-packet one-way delay: 42.530 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 84.92 Mbit/s  
95th percentile per-packet one-way delay: 42.530 ms  
Loss rate: 0.47%



Run 7: Report of Verus — Data Link

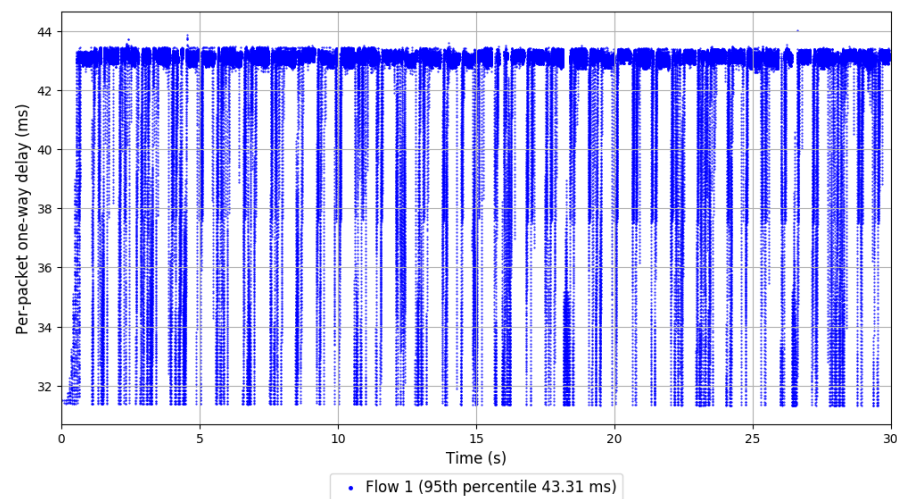
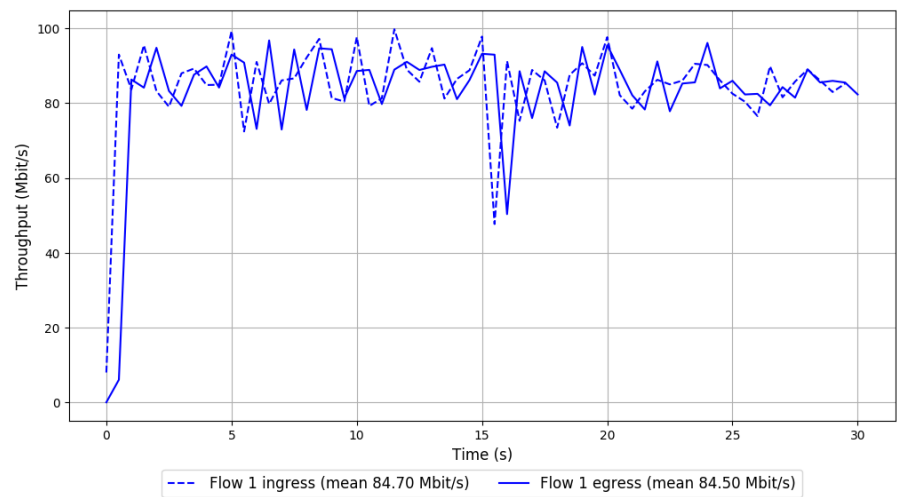


Run 8: Statistics of Verus

Start at: 2018-06-19 04:14:35  
End at: 2018-06-19 04:15:05  
Local clock offset: -0.671 ms  
Remote clock offset: -1.516 ms

# Below is generated by plot.py at 2018-06-19 05:33:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.50 Mbit/s  
95th percentile per-packet one-way delay: 43.308 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 84.50 Mbit/s  
95th percentile per-packet one-way delay: 43.308 ms  
Loss rate: 0.34%

Run 8: Report of Verus — Data Link

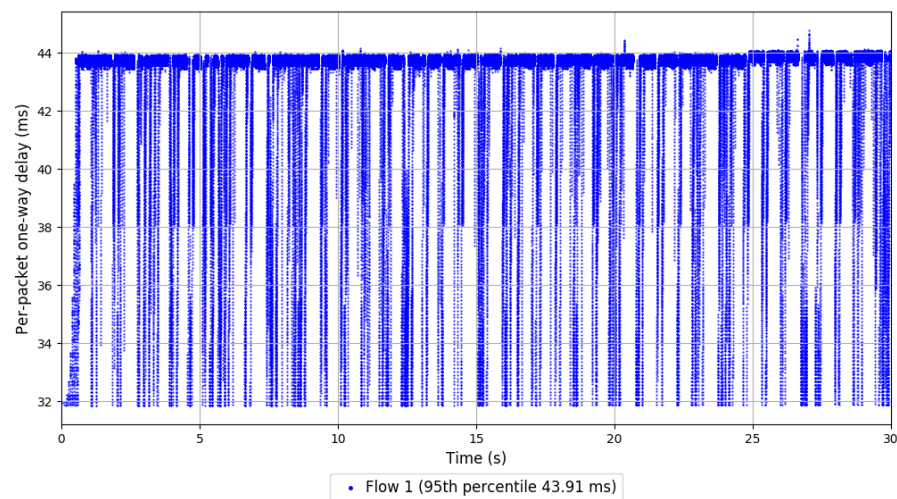
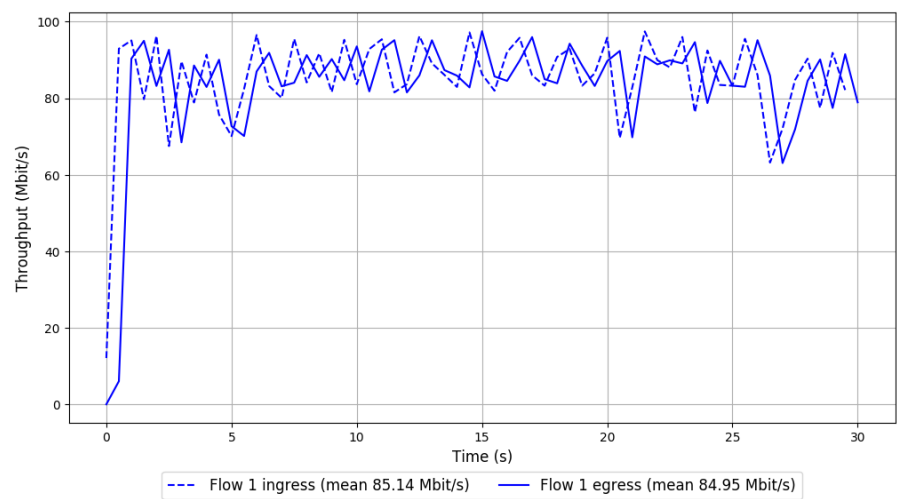


Run 9: Statistics of Verus

Start at: 2018-06-19 04:35:45  
End at: 2018-06-19 04:36:15  
Local clock offset: 0.567 ms  
Remote clock offset: -3.186 ms

# Below is generated by plot.py at 2018-06-19 05:33:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.95 Mbit/s  
95th percentile per-packet one-way delay: 43.907 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 84.95 Mbit/s  
95th percentile per-packet one-way delay: 43.907 ms  
Loss rate: 0.38%

Run 9: Report of Verus — Data Link

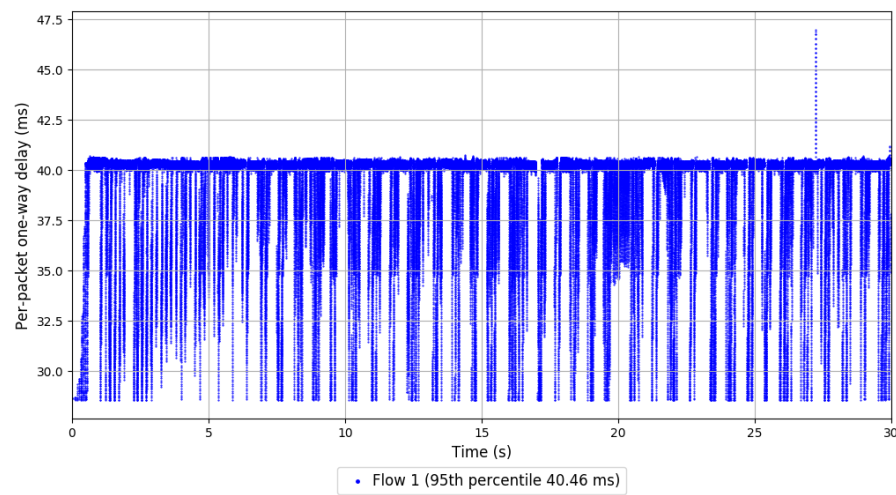
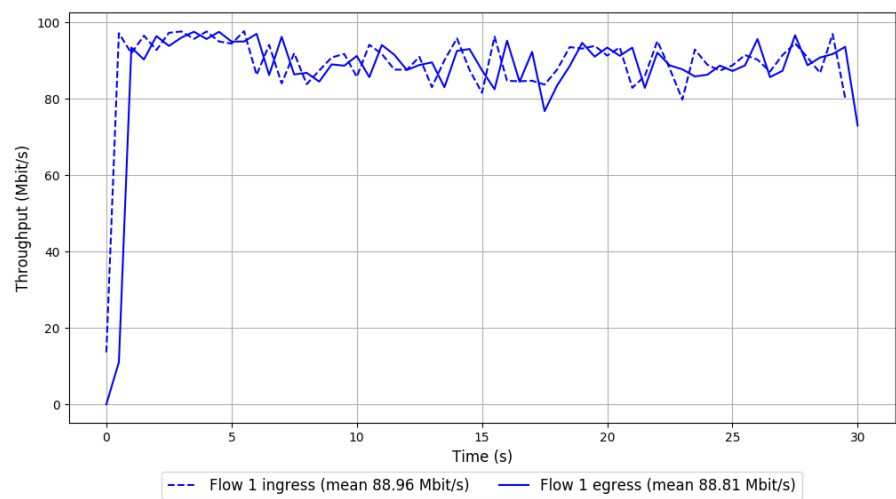


Run 10: Statistics of Verus

Start at: 2018-06-19 04:56:41  
End at: 2018-06-19 04:57:11  
Local clock offset: 0.855 ms  
Remote clock offset: -2.688 ms

# Below is generated by plot.py at 2018-06-19 05:33:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.81 Mbit/s  
95th percentile per-packet one-way delay: 40.462 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 88.81 Mbit/s  
95th percentile per-packet one-way delay: 40.462 ms  
Loss rate: 0.37%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 01:58:50

End at: 2018-06-19 01:59:20

Local clock offset: -3.187 ms

Remote clock offset: 0.629 ms

# Below is generated by plot.py at 2018-06-19 05:33:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 27.017 ms

Loss rate: 0.19%

-- Flow 1:

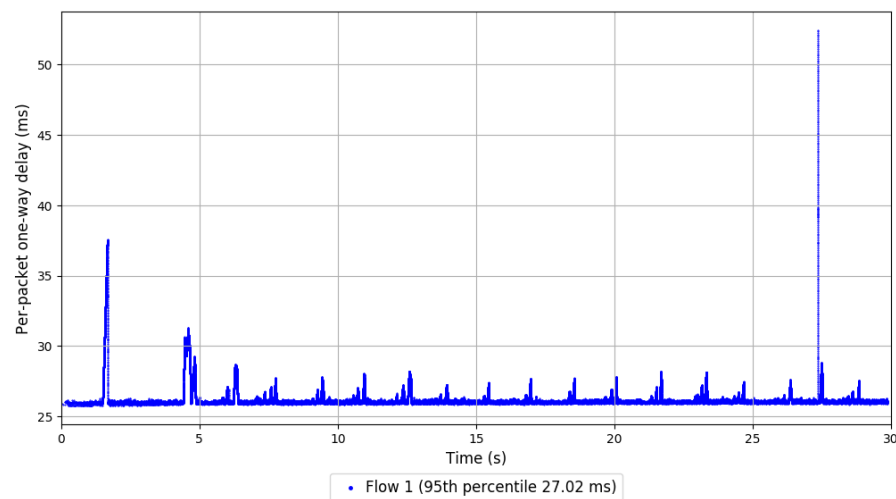
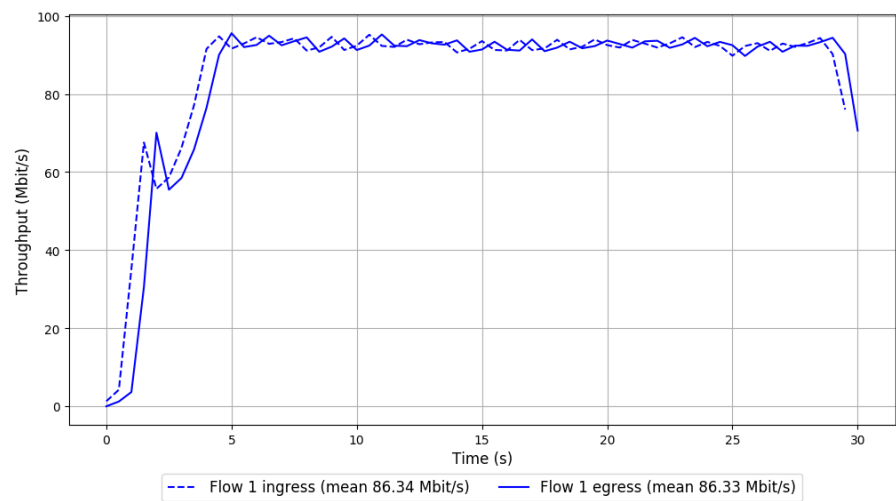
Average throughput: 86.33 Mbit/s

95th percentile per-packet one-way delay: 27.017 ms

Loss rate: 0.19%



Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 02:19:46

End at: 2018-06-19 02:20:16

Local clock offset: -4.356 ms

Remote clock offset: 1.469 ms

# Below is generated by plot.py at 2018-06-19 05:33:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 31.776 ms

Loss rate: 0.21%

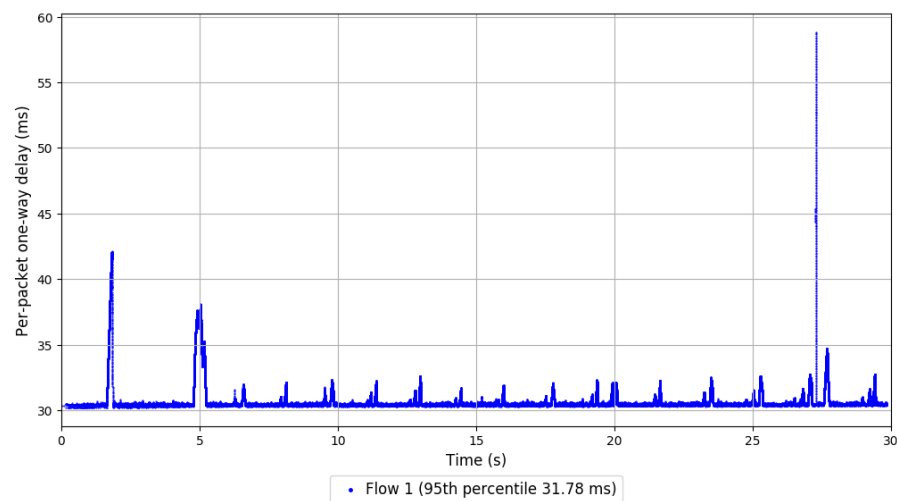
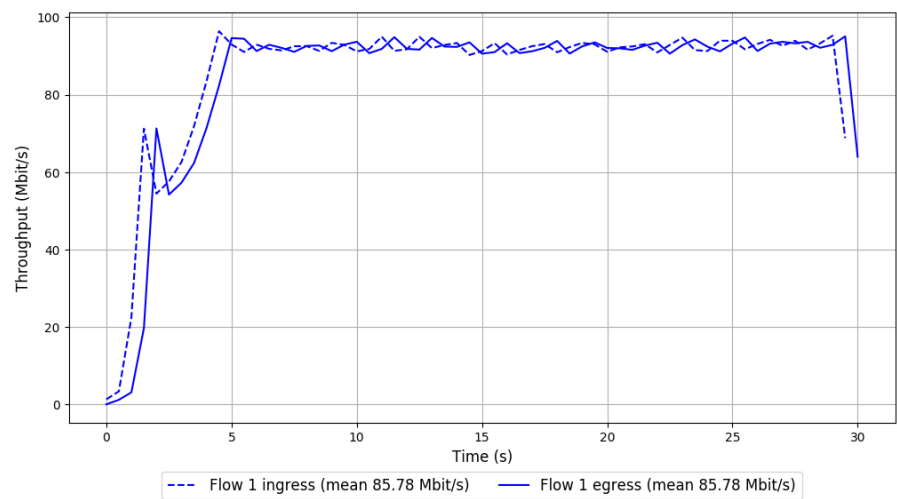
-- Flow 1:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 31.776 ms

Loss rate: 0.21%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 02:40:41

End at: 2018-06-19 02:41:11

Local clock offset: -1.718 ms

Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2018-06-19 05:34:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 34.411 ms

Loss rate: 0.22%

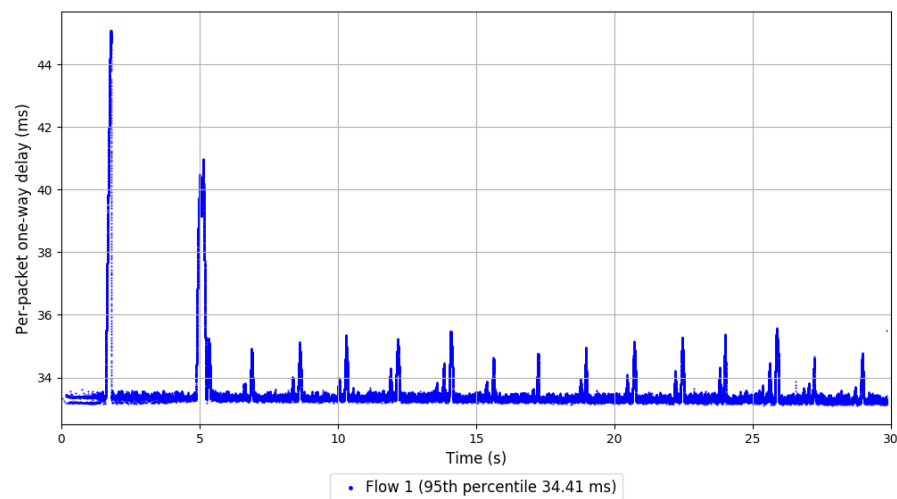
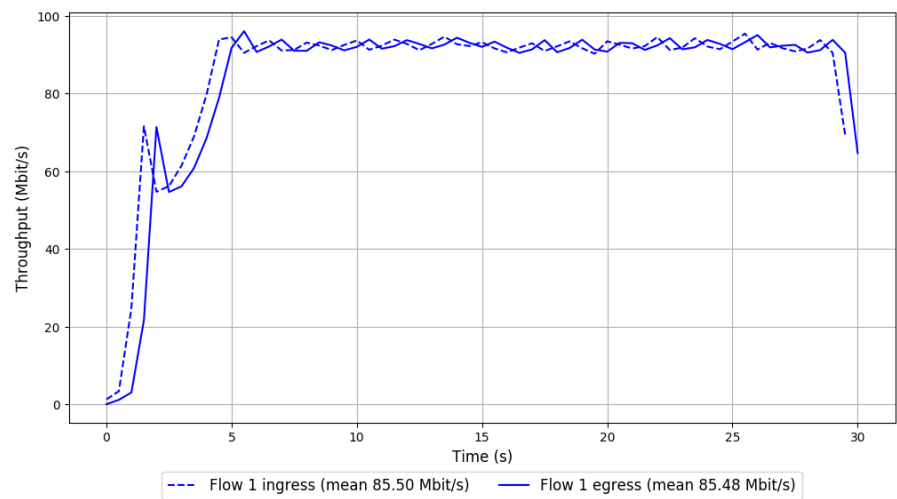
-- Flow 1:

Average throughput: 85.48 Mbit/s

95th percentile per-packet one-way delay: 34.411 ms

Loss rate: 0.22%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 03:01:36

End at: 2018-06-19 03:02:06

Local clock offset: 1.569 ms

Remote clock offset: 0.275 ms

# Below is generated by plot.py at 2018-06-19 05:34:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.99 Mbit/s

95th percentile per-packet one-way delay: 26.526 ms

Loss rate: 0.20%

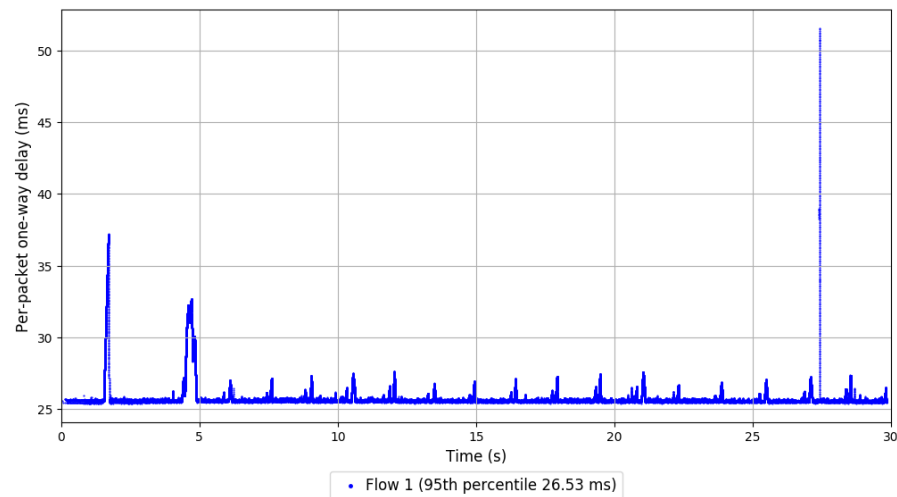
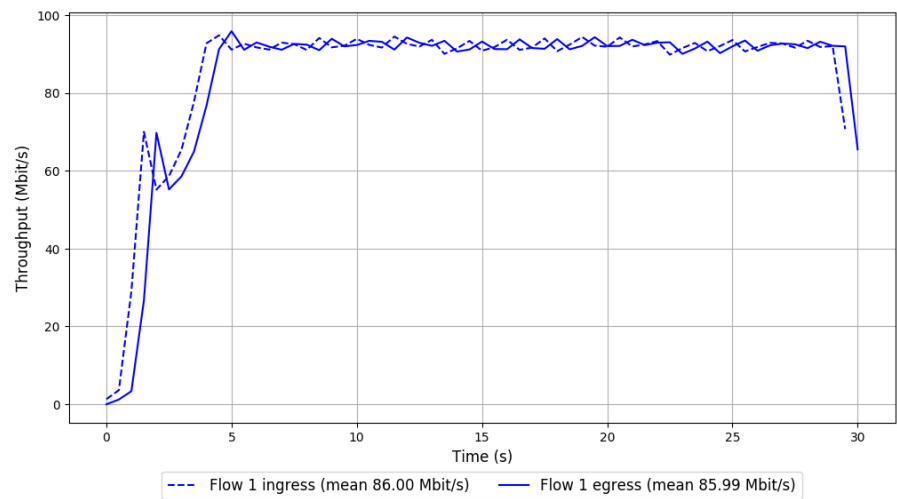
-- Flow 1:

Average throughput: 85.99 Mbit/s

95th percentile per-packet one-way delay: 26.526 ms

Loss rate: 0.20%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 03:22:29

End at: 2018-06-19 03:22:59

Local clock offset: 1.323 ms

Remote clock offset: 0.441 ms

# Below is generated by plot.py at 2018-06-19 05:34:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 30.817 ms

Loss rate: 0.23%

-- Flow 1:

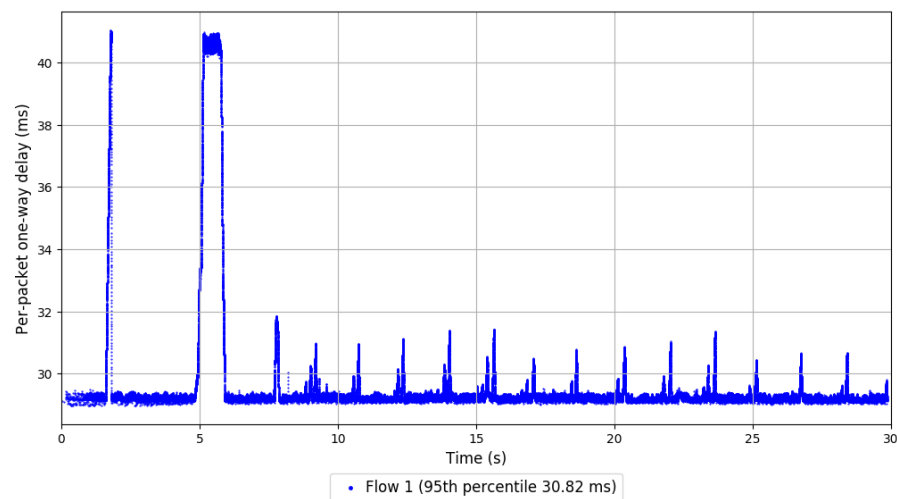
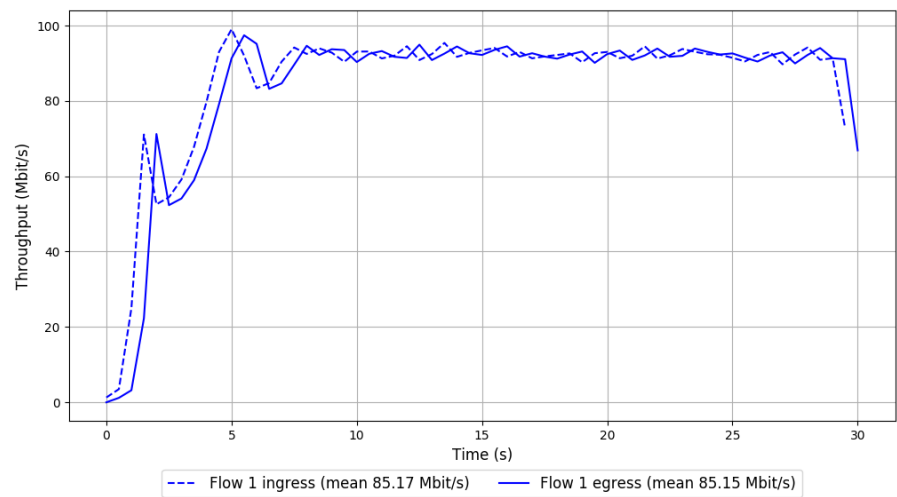
Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 30.817 ms

Loss rate: 0.23%



Run 5: Report of PCC-Vivace — Data Link

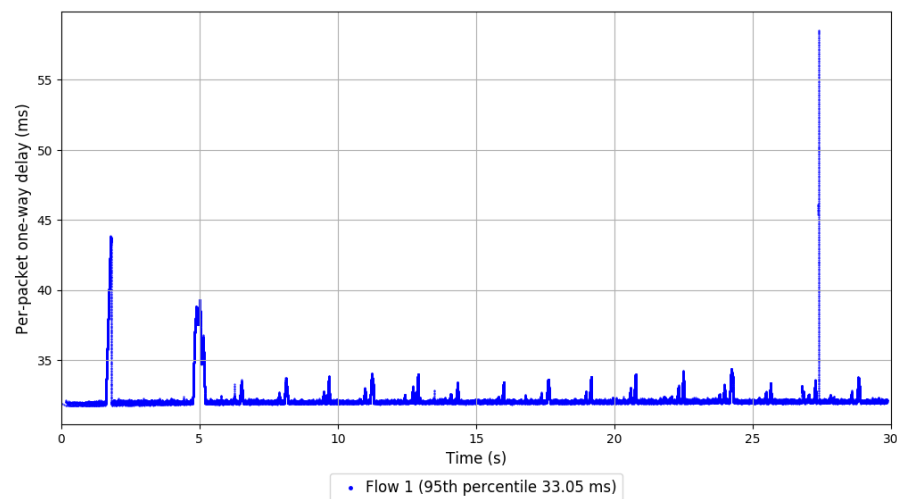
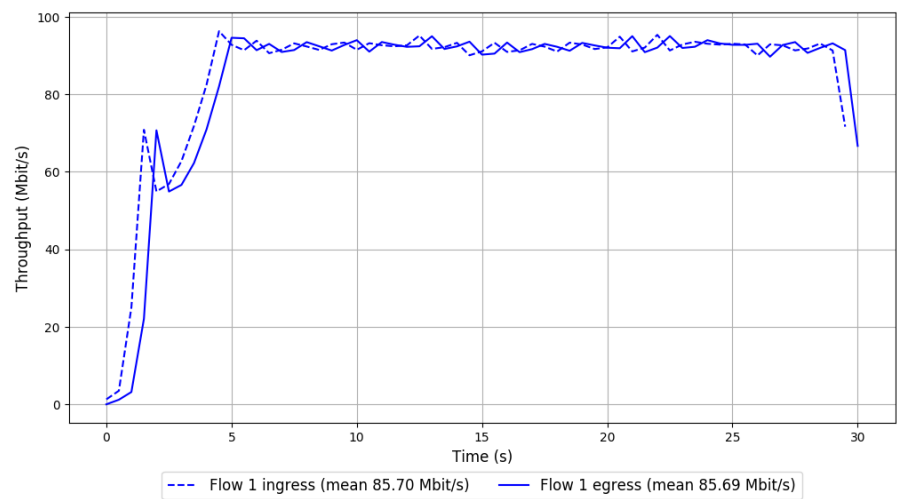


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 03:43:23  
End at: 2018-06-19 03:43:53  
Local clock offset: -1.311 ms  
Remote clock offset: -2.562 ms

# Below is generated by plot.py at 2018-06-19 05:34:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.69 Mbit/s  
95th percentile per-packet one-way delay: 33.046 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 85.69 Mbit/s  
95th percentile per-packet one-way delay: 33.046 ms  
Loss rate: 0.21%

Run 6: Report of PCC-Vivace — Data Link

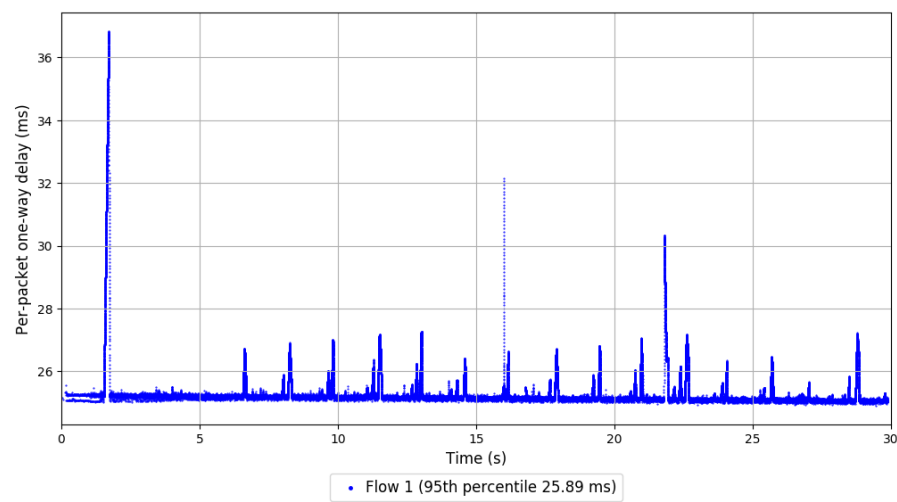
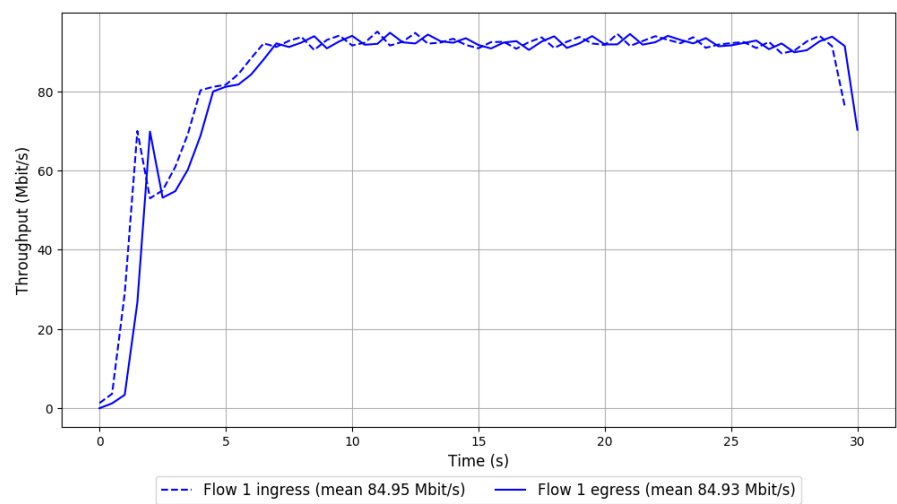


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 04:04:16  
End at: 2018-06-19 04:04:46  
Local clock offset: -2.875 ms  
Remote clock offset: -1.112 ms

# Below is generated by plot.py at 2018-06-19 05:34:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.93 Mbit/s  
95th percentile per-packet one-way delay: 25.888 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 84.93 Mbit/s  
95th percentile per-packet one-way delay: 25.888 ms  
Loss rate: 0.21%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 04:25:26

End at: 2018-06-19 04:25:56

Local clock offset: 0.129 ms

Remote clock offset: -1.731 ms

# Below is generated by plot.py at 2018-06-19 05:34:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.27 Mbit/s

95th percentile per-packet one-way delay: 32.220 ms

Loss rate: 0.23%

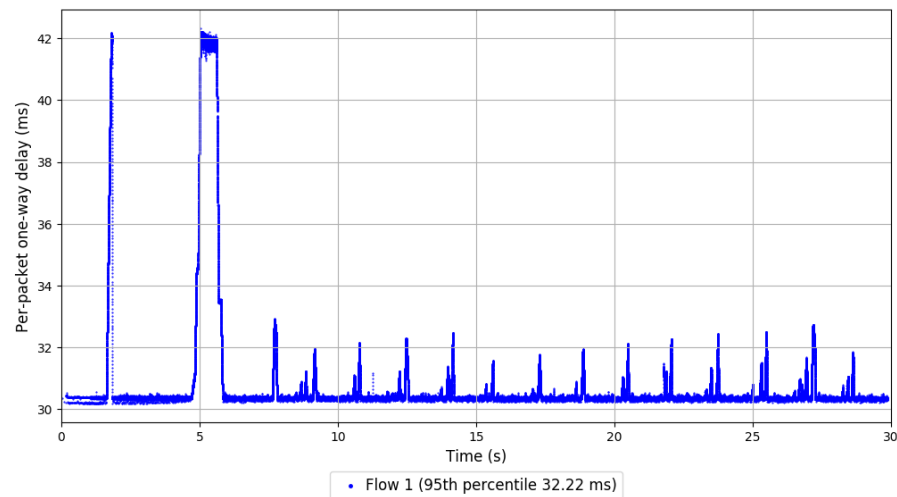
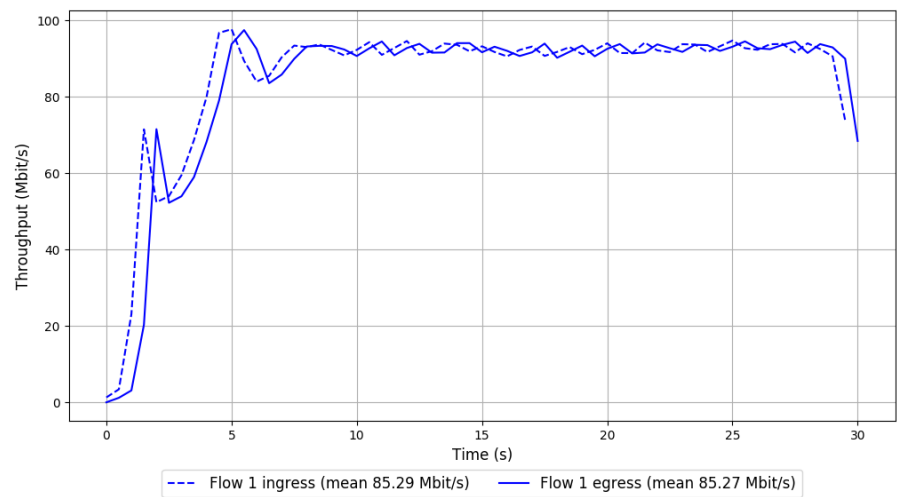
-- Flow 1:

Average throughput: 85.27 Mbit/s

95th percentile per-packet one-way delay: 32.220 ms

Loss rate: 0.23%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 04:46:22

End at: 2018-06-19 04:46:52

Local clock offset: 0.64 ms

Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-06-19 05:34:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 31.933 ms

Loss rate: 0.24%

-- Flow 1:

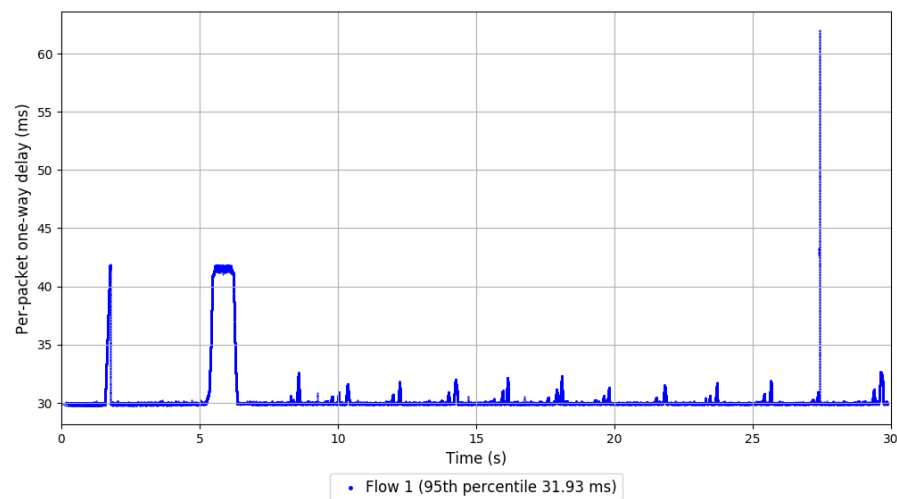
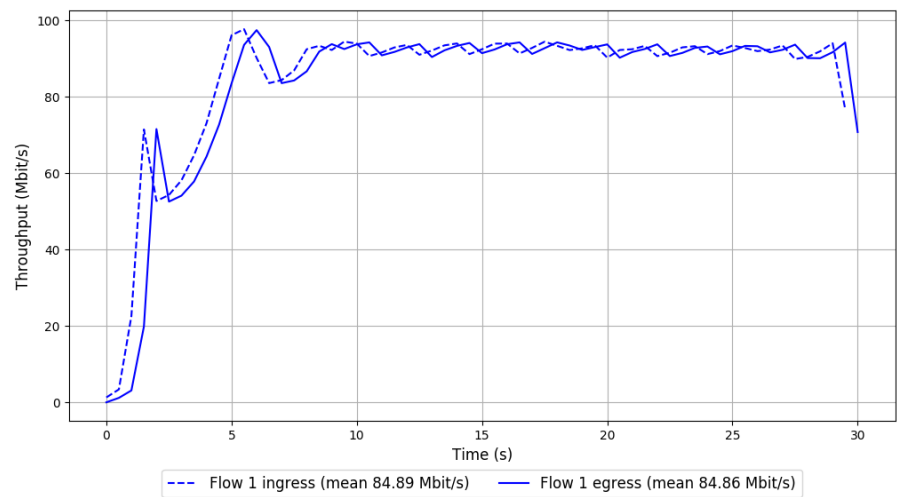
Average throughput: 84.86 Mbit/s

95th percentile per-packet one-way delay: 31.933 ms

Loss rate: 0.24%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 05:07:18

End at: 2018-06-19 05:07:48

Local clock offset: 0.737 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-06-19 05:34:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 26.201 ms

Loss rate: 0.20%

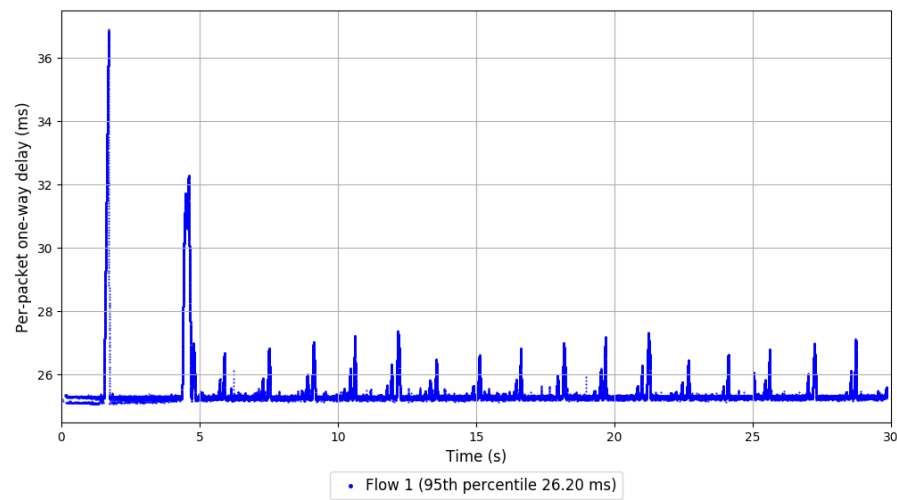
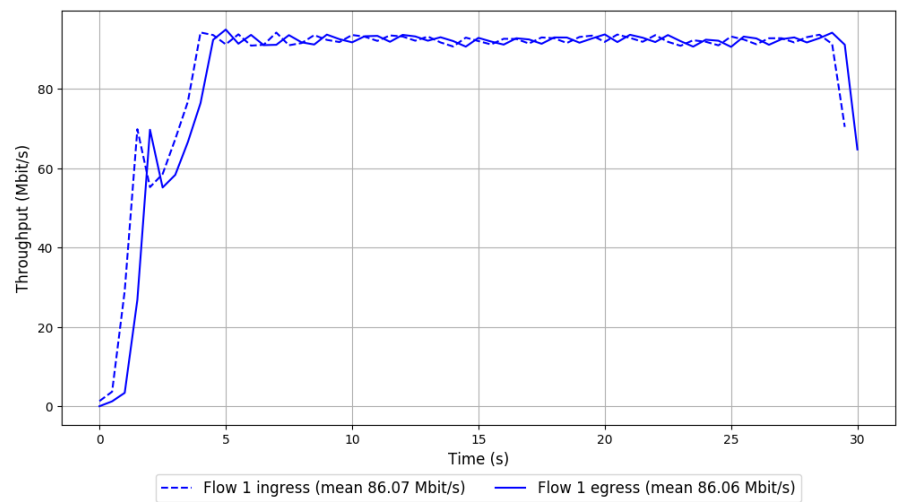
-- Flow 1:

Average throughput: 86.06 Mbit/s

95th percentile per-packet one-way delay: 26.201 ms

Loss rate: 0.20%

Run 10: Report of PCC-Vivace — Data Link

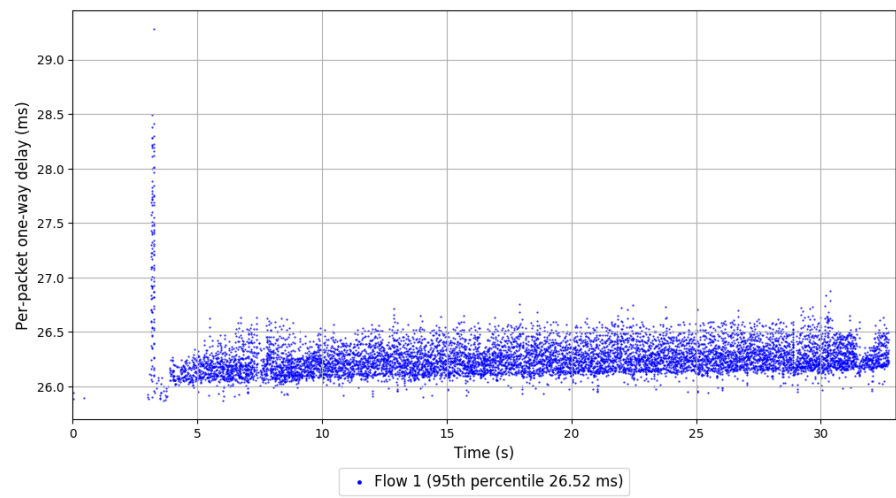
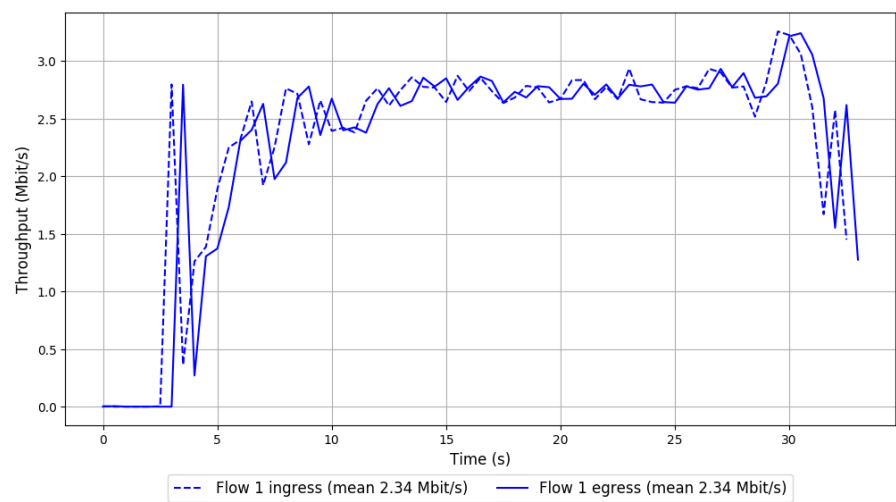


Run 1: Statistics of WebRTC media

Start at: 2018-06-19 01:41:50  
End at: 2018-06-19 01:42:20  
Local clock offset: -1.477 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-19 05:34:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 26.515 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 26.515 ms  
Loss rate: 0.18%

Run 1: Report of WebRTC media — Data Link

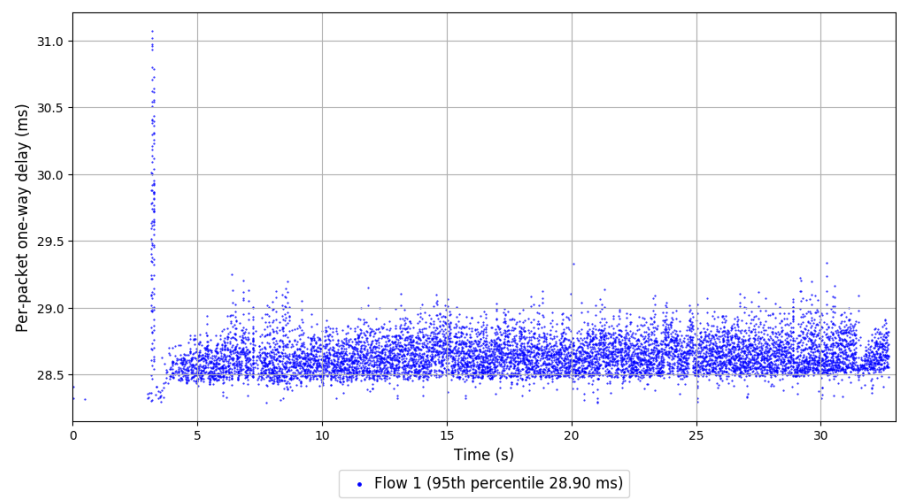
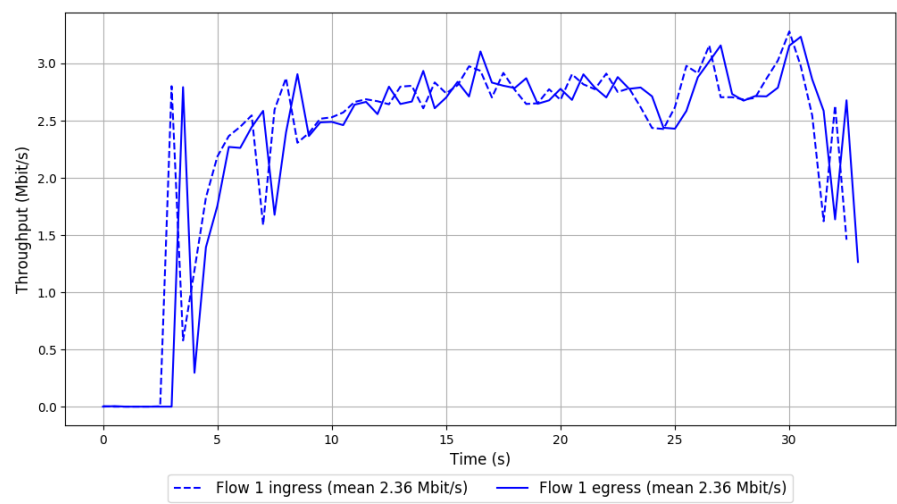


Run 2: Statistics of WebRTC media

Start at: 2018-06-19 02:02:46  
End at: 2018-06-19 02:03:16  
Local clock offset: -3.399 ms  
Remote clock offset: -1.713 ms

# Below is generated by plot.py at 2018-06-19 05:34:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 28.901 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 28.901 ms  
Loss rate: 0.19%

Run 2: Report of WebRTC media — Data Link



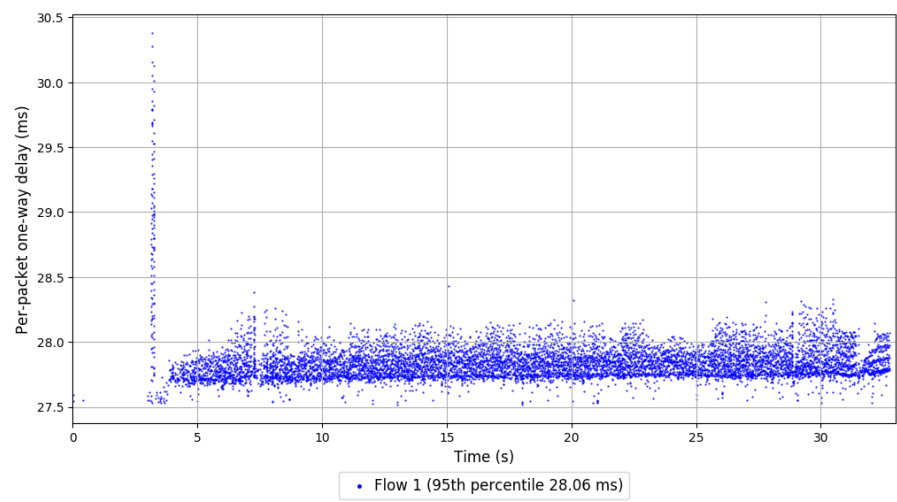
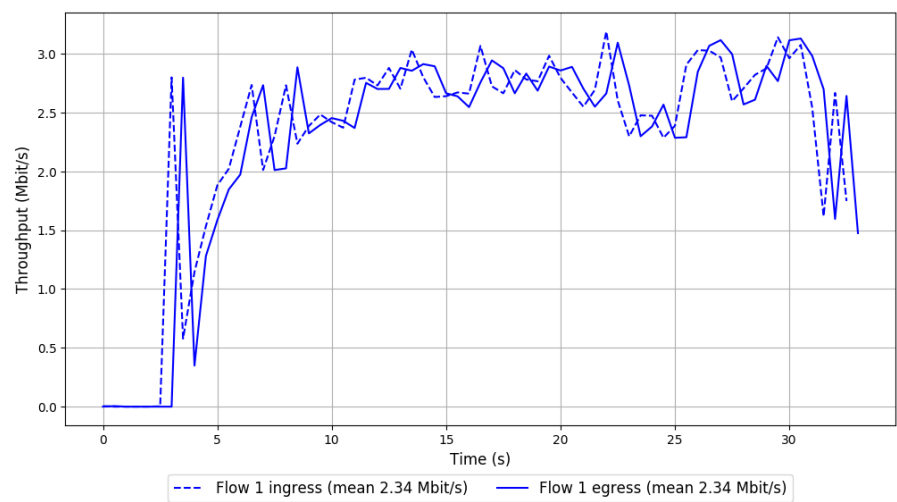
Run 3: Statistics of WebRTC media

Start at: 2018-06-19 02:23:41  
End at: 2018-06-19 02:24:11  
Local clock offset: -4.528 ms  
Remote clock offset: -0.907 ms

# Below is generated by plot.py at 2018-06-19 05:34:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 28.064 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 28.064 ms  
Loss rate: 0.24%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-19 02:44:36

End at: 2018-06-19 02:45:06

Local clock offset: -0.642 ms

Remote clock offset: 2.533 ms

# Below is generated by plot.py at 2018-06-19 05:34:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 30.497 ms

Loss rate: 0.22%

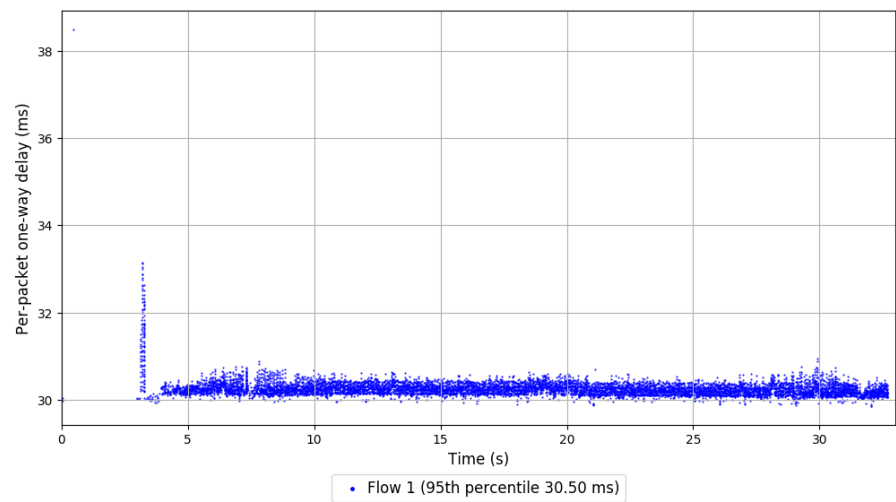
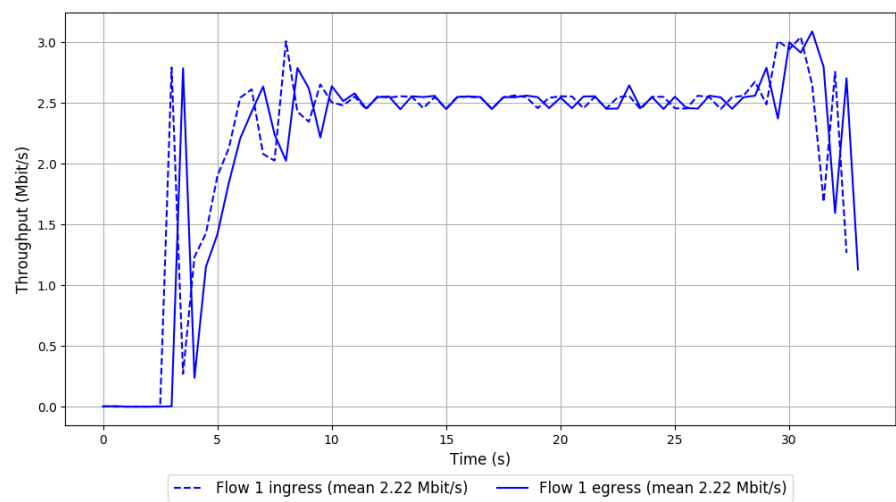
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 30.497 ms

Loss rate: 0.22%

Run 4: Report of WebRTC media — Data Link

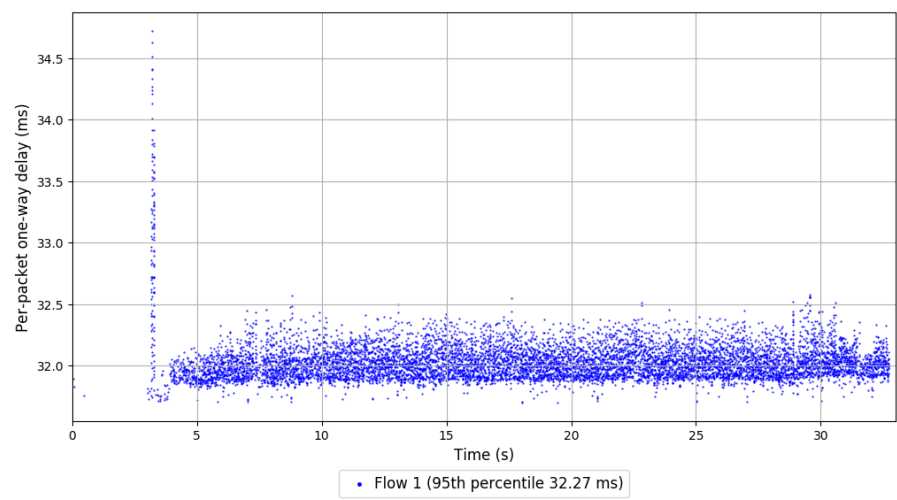
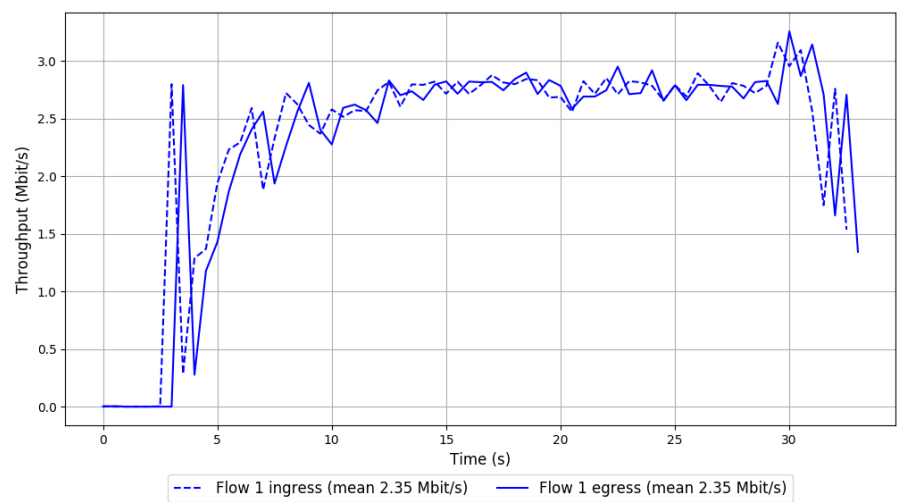


Run 5: Statistics of WebRTC media

Start at: 2018-06-19 03:05:30  
End at: 2018-06-19 03:06:01  
Local clock offset: 1.636 ms  
Remote clock offset: -1.879 ms

# Below is generated by plot.py at 2018-06-19 05:34:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 32.272 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 32.272 ms  
Loss rate: 0.25%

Run 5: Report of WebRTC media — Data Link

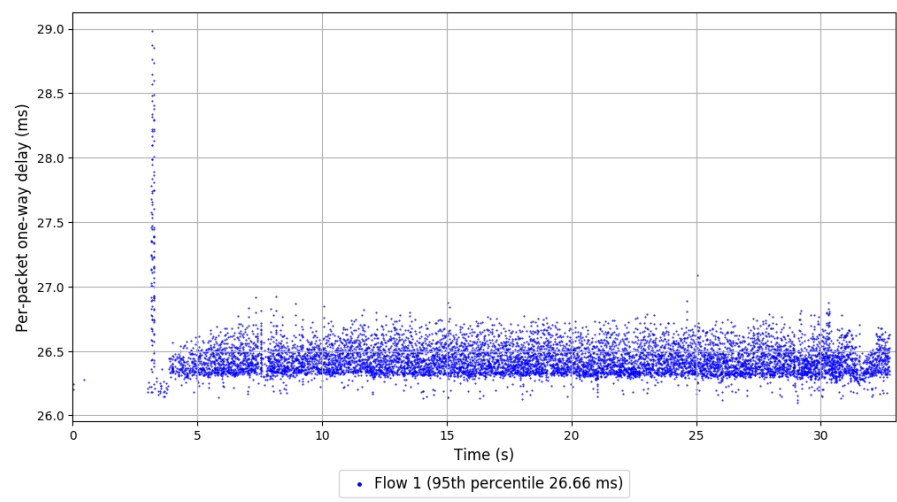
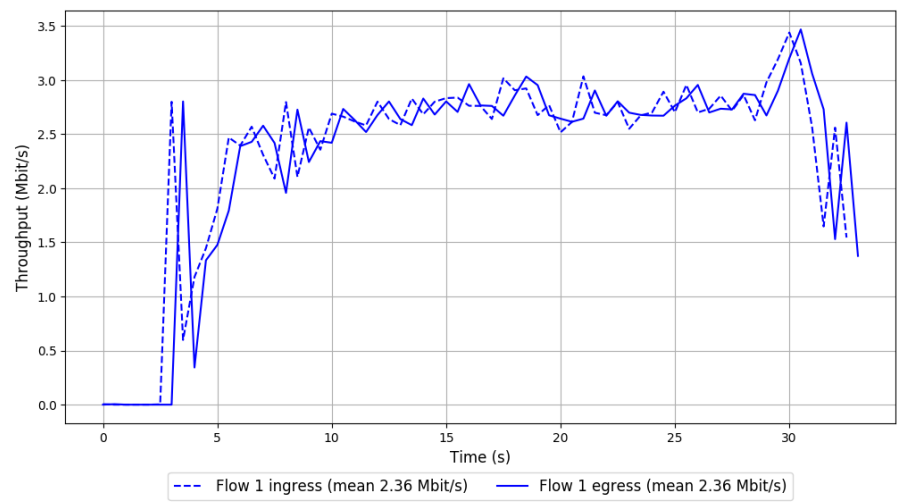


Run 6: Statistics of WebRTC media

Start at: 2018-06-19 03:26:24  
End at: 2018-06-19 03:26:54  
Local clock offset: 1.409 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-06-19 05:34:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 26.656 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 26.656 ms  
Loss rate: 0.17%

Run 6: Report of WebRTC media — Data Link



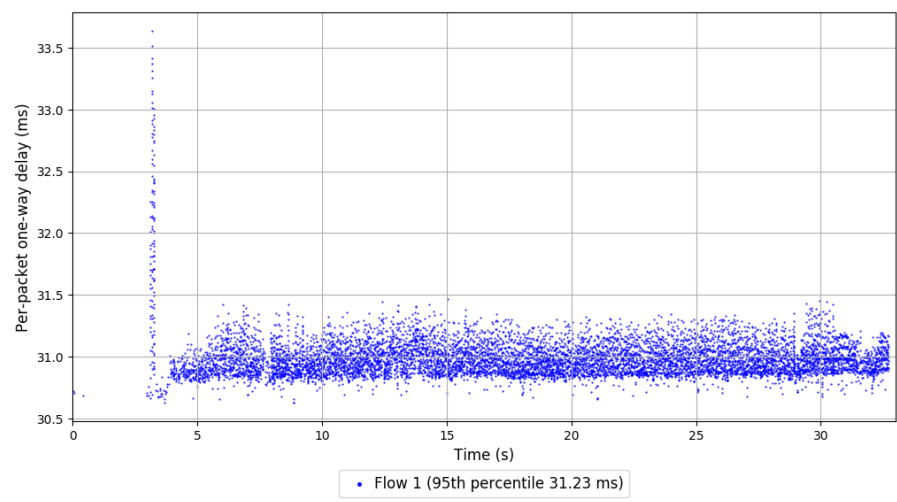
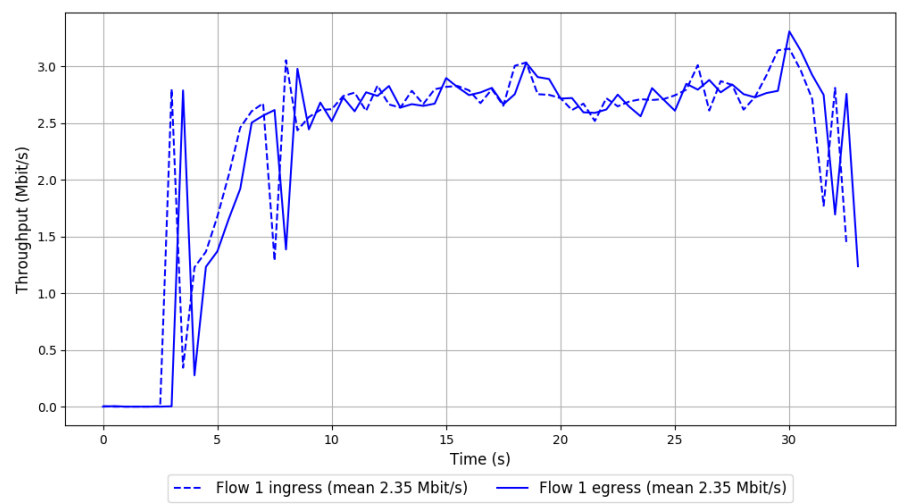
Run 7: Statistics of WebRTC media

Start at: 2018-06-19 03:47:18  
End at: 2018-06-19 03:47:48  
Local clock offset: -1.866 ms  
Remote clock offset: -0.576 ms

# Below is generated by plot.py at 2018-06-19 05:34:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 31.225 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 31.225 ms  
Loss rate: 0.25%



Run 7: Report of WebRTC media — Data Link

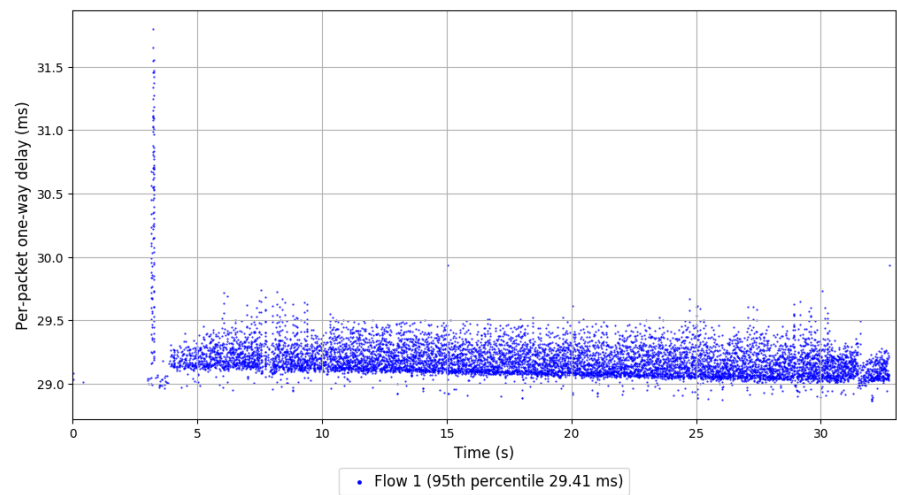
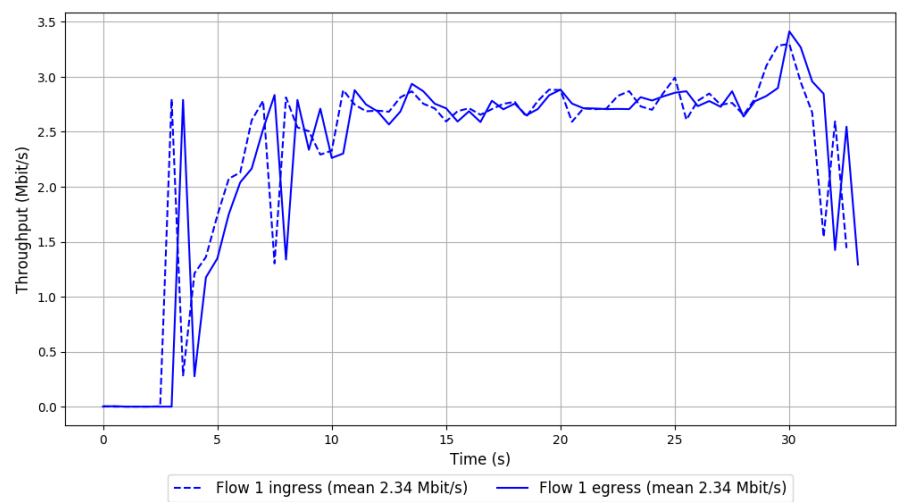


Run 8: Statistics of WebRTC media

Start at: 2018-06-19 04:08:11  
End at: 2018-06-19 04:08:41  
Local clock offset: -1.769 ms  
Remote clock offset: -0.842 ms

# Below is generated by plot.py at 2018-06-19 05:34:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 29.413 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 29.413 ms  
Loss rate: 0.22%

Run 8: Report of WebRTC media — Data Link

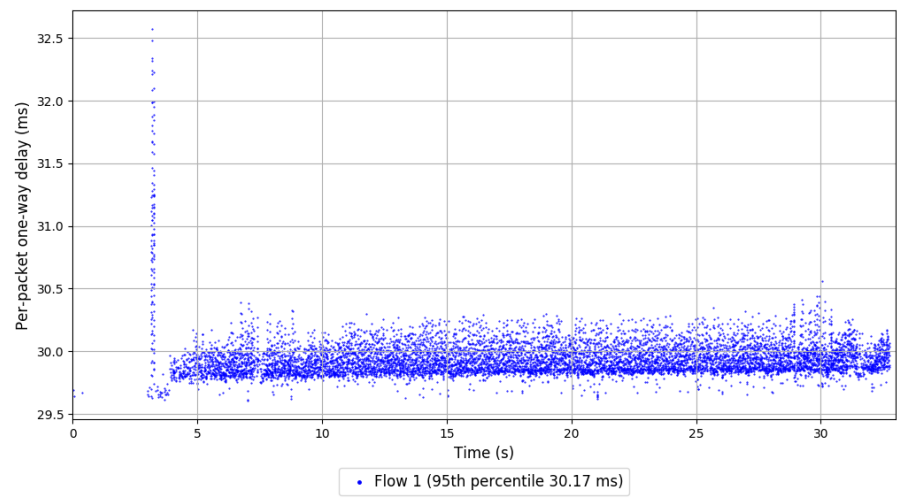
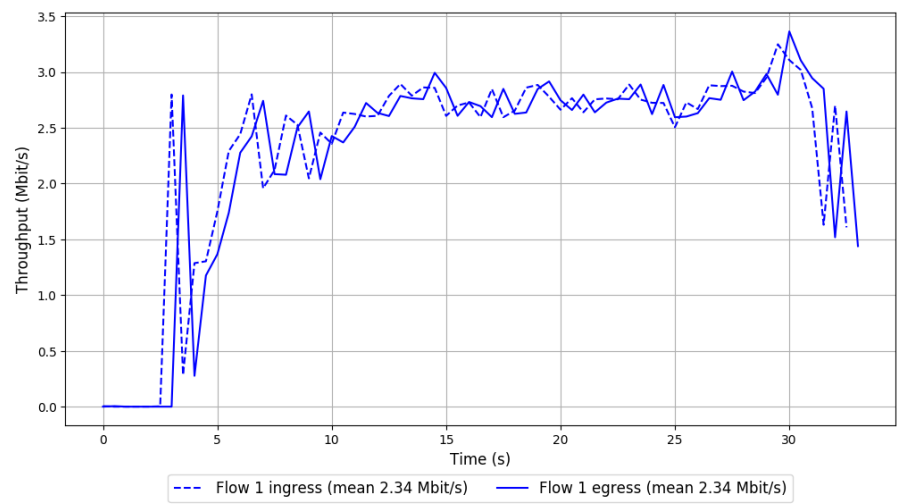


Run 9: Statistics of WebRTC media

Start at: 2018-06-19 04:29:21  
End at: 2018-06-19 04:29:51  
Local clock offset: 0.41 ms  
Remote clock offset: -1.761 ms

# Below is generated by plot.py at 2018-06-19 05:34:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 30.170 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 30.170 ms  
Loss rate: 0.24%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 04:50:17  
End at: 2018-06-19 04:50:47  
Local clock offset: 0.713 ms  
Remote clock offset: -2.676 ms

# Below is generated by plot.py at 2018-06-19 05:34:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 32.151 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 32.151 ms  
Loss rate: 0.19%

Run 10: Report of WebRTC media — Data Link

