

## Pantheon Report

Generated at 2018-05-25 05:11:36 (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.

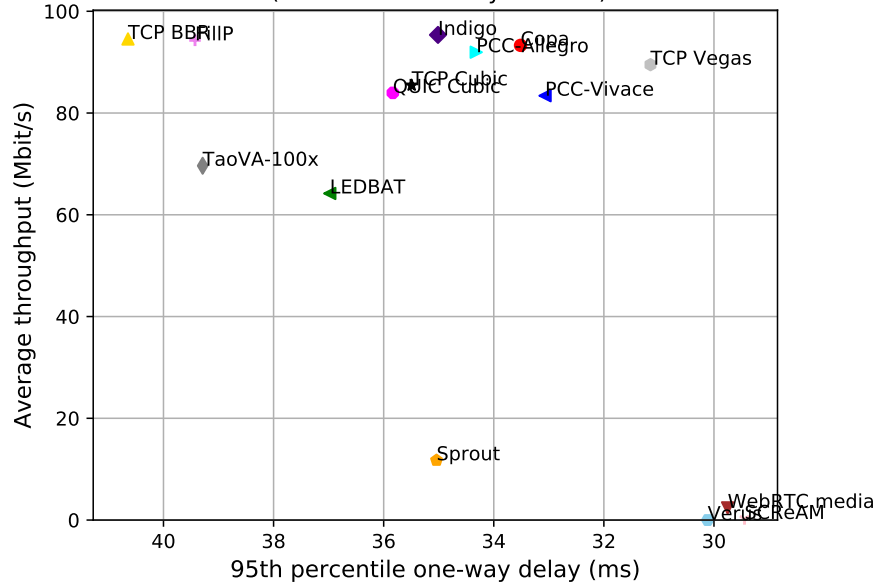
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

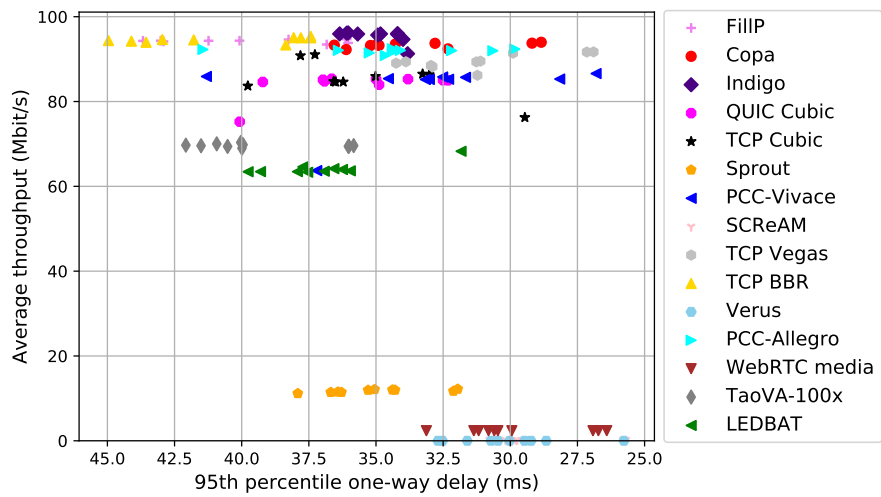
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
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	94.56	40.64	1.25
Copa	10	93.30	33.51	0.20
TCP Cubic	10	85.45	35.49	0.23
FillP	10	94.29	39.43	0.23
Indigo	10	95.36	35.01	0.22
LEDBAT	10	64.19	36.98	0.25
PCC-Allegro	10	91.95	34.32	0.22
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	10	83.96	35.83	0.24
SCReAM	10	0.22	29.45	0.22
Sprout	10	11.76	35.04	0.18
TaoVA-100x	10	69.64	39.29	0.21
TCP Vegas	10	89.50	31.15	0.21
Verus	10	0.00	30.12	0.00
PCC-Vivace	10	83.41	33.07	0.23
WebRTC media	10	2.38	29.75	0.21

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 01:39:55

End at: 2018-05-25 01:40:25

Local clock offset: 0.414 ms

Remote clock offset: 3.485 ms

# Below is generated by plot.py at 2018-05-25 04:55:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.06 Mbit/s

95th percentile per-packet one-way delay: 38.066 ms

Loss rate: 1.38%

-- Flow 1:

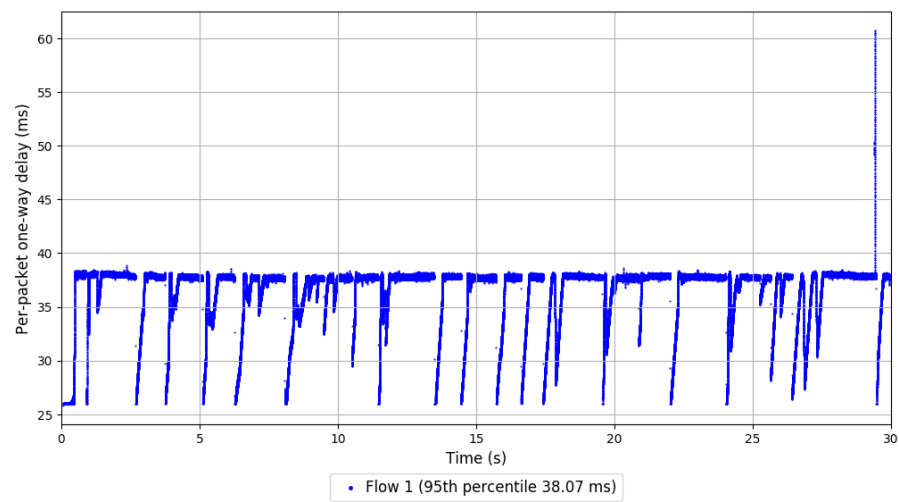
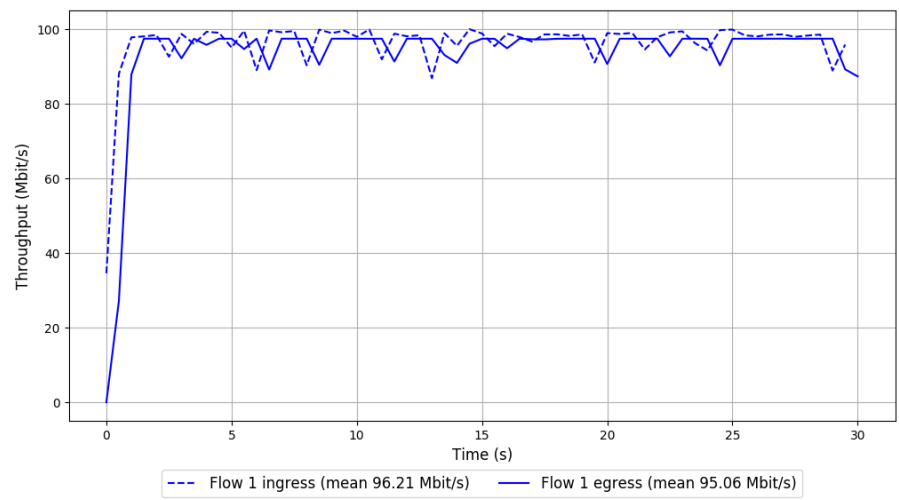
Average throughput: 95.06 Mbit/s

95th percentile per-packet one-way delay: 38.066 ms

Loss rate: 1.38%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-25 02:00:41

End at: 2018-05-25 02:01:11

Local clock offset: 0.317 ms

Remote clock offset: 3.184 ms

# Below is generated by plot.py at 2018-05-25 04:55:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 43.559 ms

Loss rate: 1.33%

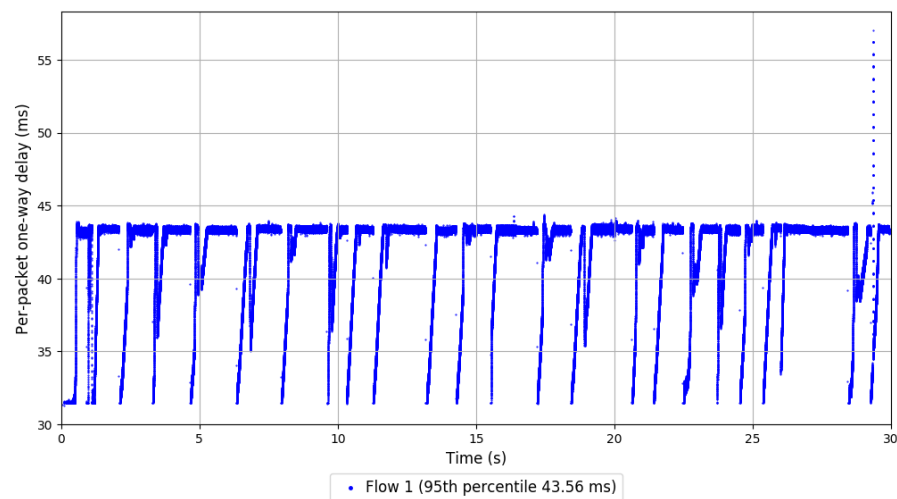
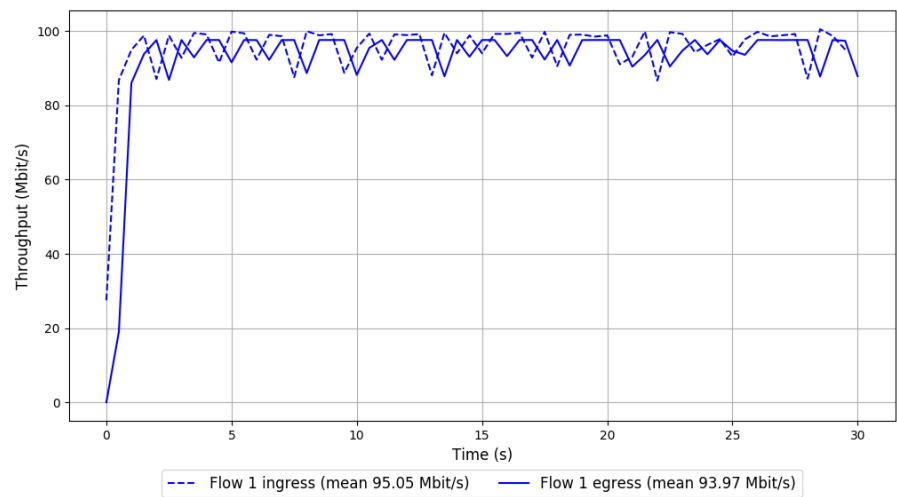
-- Flow 1:

Average throughput: 93.97 Mbit/s

95th percentile per-packet one-way delay: 43.559 ms

Loss rate: 1.33%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-25 02:21:28

End at: 2018-05-25 02:21:58

Local clock offset: 0.282 ms

Remote clock offset: 4.077 ms

# Below is generated by plot.py at 2018-05-25 04:55:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 37.433 ms

Loss rate: 1.35%

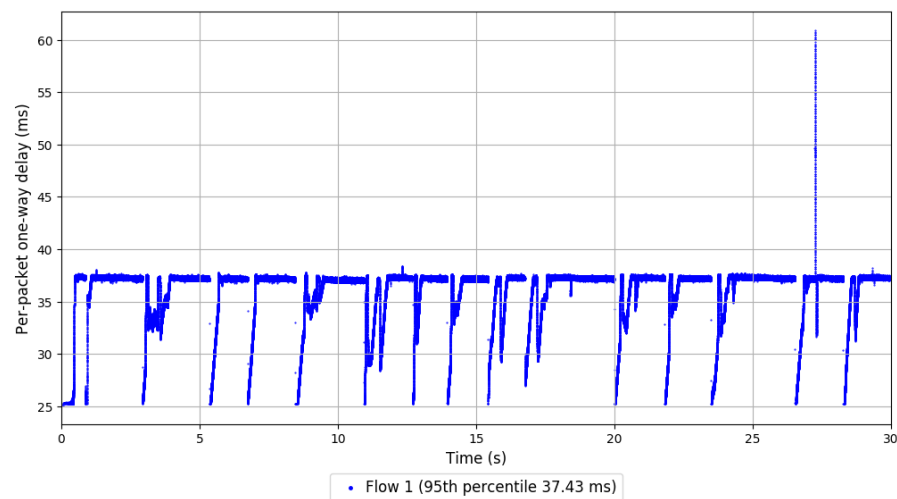
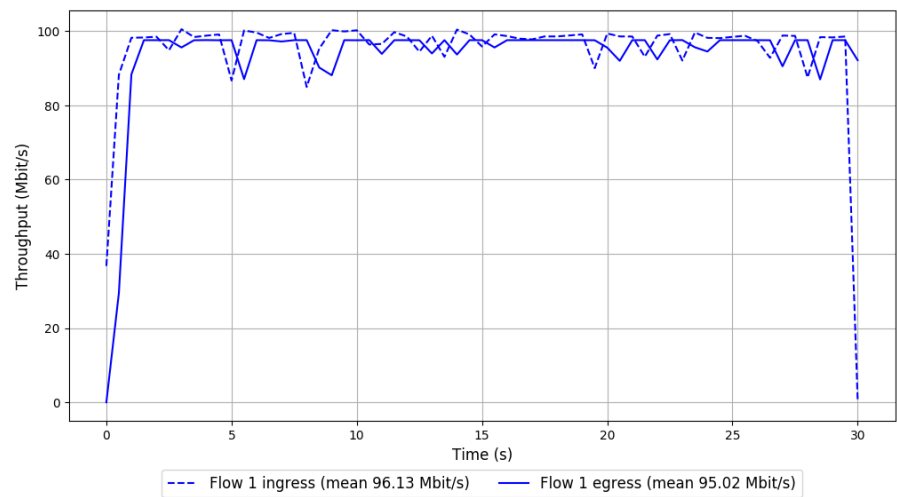
-- Flow 1:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 37.433 ms

Loss rate: 1.35%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-25 02:42:15

End at: 2018-05-25 02:42:45

Local clock offset: 0.099 ms

Remote clock offset: 3.335 ms

# Below is generated by plot.py at 2018-05-25 04:55:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 41.785 ms

Loss rate: 1.27%

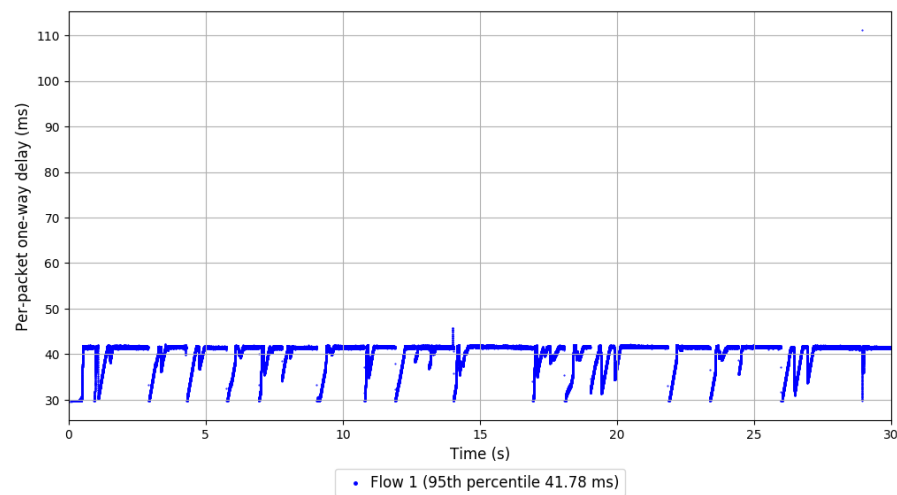
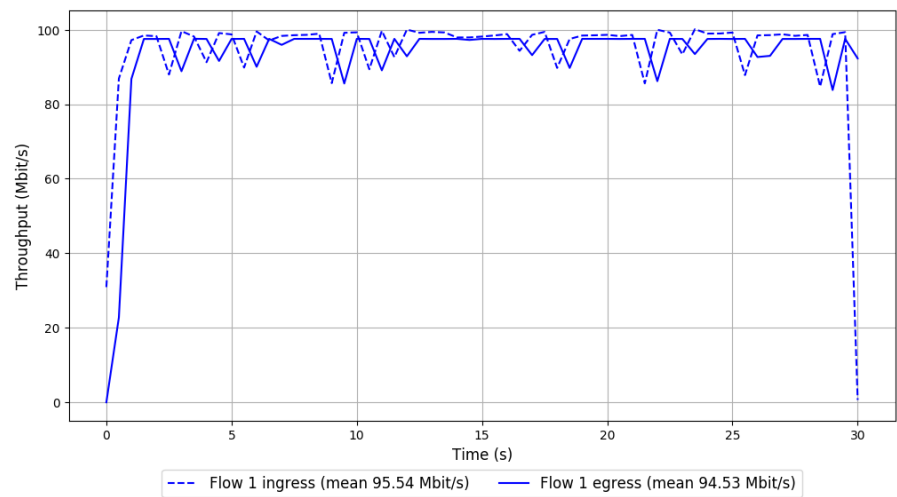
-- Flow 1:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 41.785 ms

Loss rate: 1.27%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-25 03:03:04

End at: 2018-05-25 03:03:34

Local clock offset: 0.165 ms

Remote clock offset: 0.569 ms

# Below is generated by plot.py at 2018-05-25 04:55:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 44.960 ms

Loss rate: 1.15%

-- Flow 1:

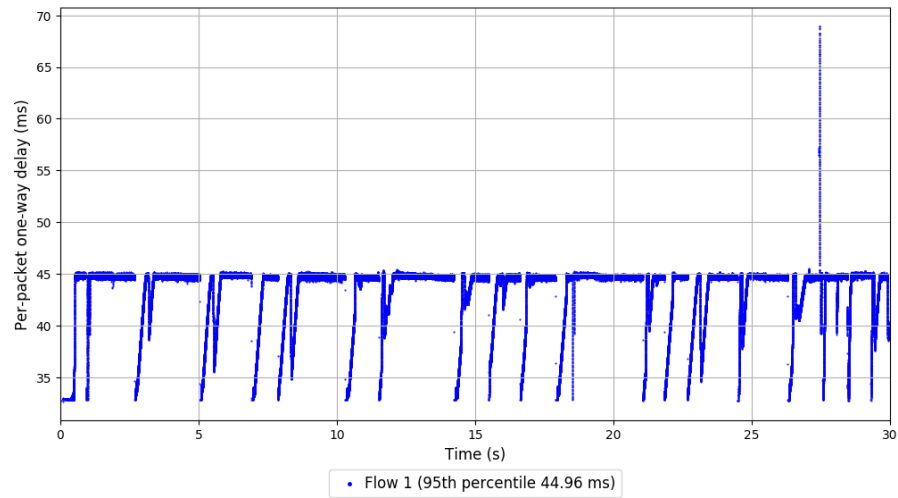
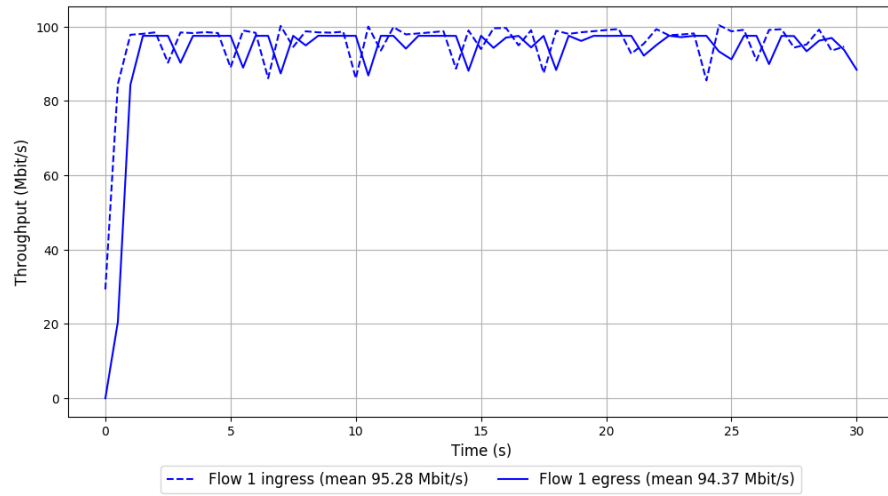
Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 44.960 ms

Loss rate: 1.15%



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



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 03:24:10

End at: 2018-05-25 03:24:40

Local clock offset: 0.175 ms

Remote clock offset: 1.711 ms

# Below is generated by plot.py at 2018-05-25 04:55:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 37.797 ms

Loss rate: 1.44%

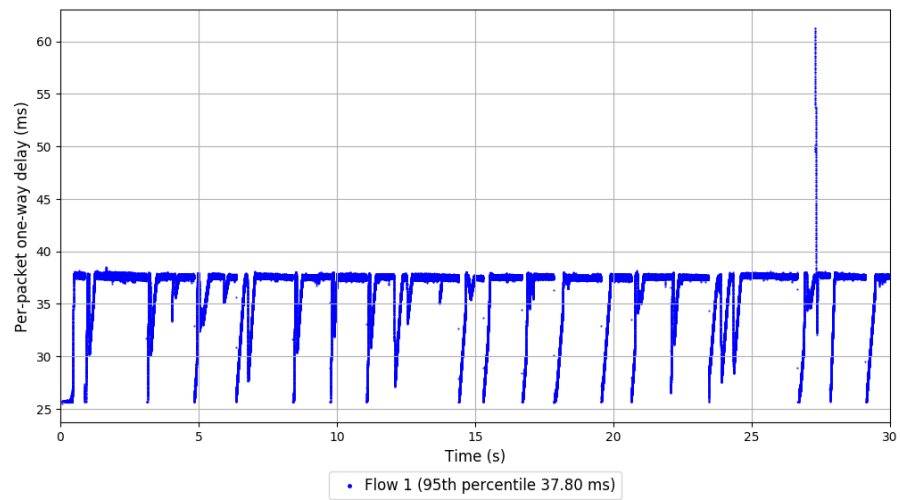
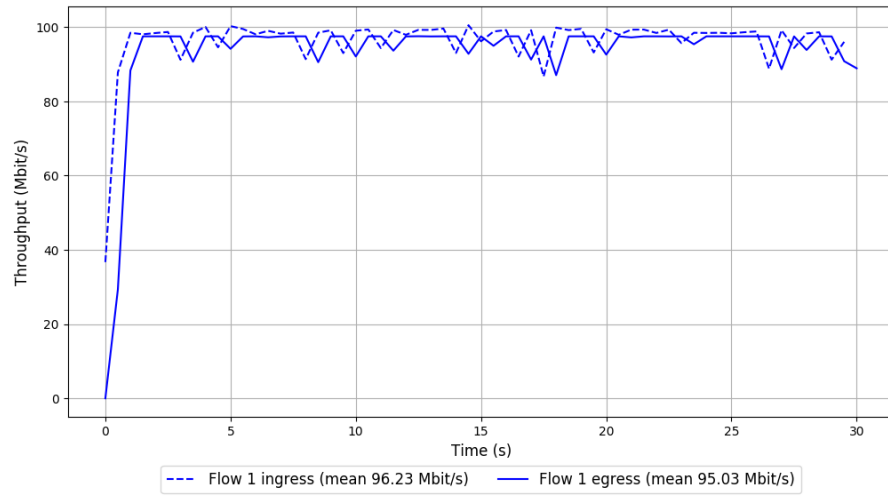
-- Flow 1:

Average throughput: 95.03 Mbit/s

95th percentile per-packet one-way delay: 37.797 ms

Loss rate: 1.44%

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



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 03:44:53

End at: 2018-05-25 03:45:23

Local clock offset: 0.022 ms

Remote clock offset: 2.018 ms

# Below is generated by plot.py at 2018-05-25 04:55:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 42.954 ms

Loss rate: 0.97%

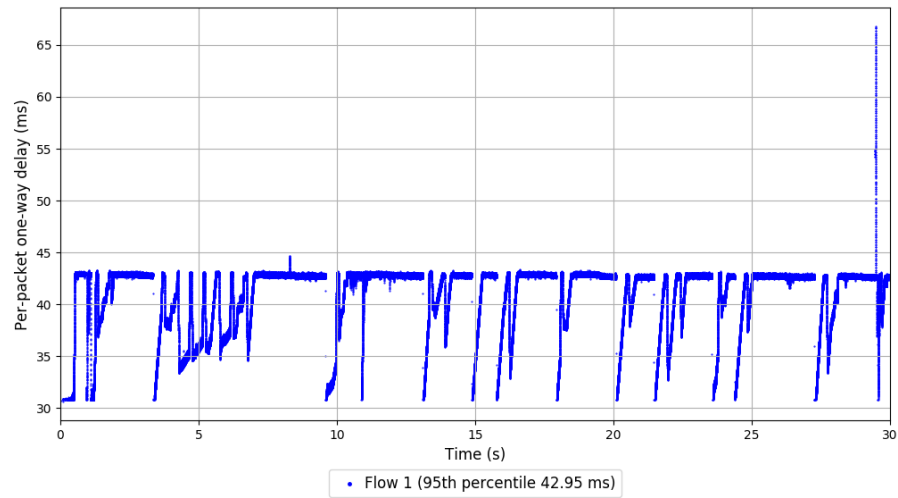
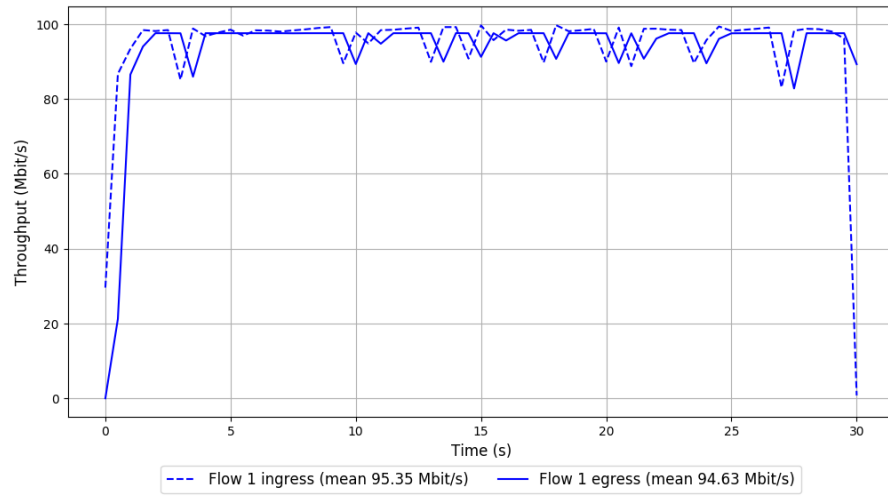
-- Flow 1:

Average throughput: 94.63 Mbit/s

95th percentile per-packet one-way delay: 42.954 ms

Loss rate: 0.97%

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



Run 8: Statistics of TCP BBR

Start at: 2018-05-25 04:05:52

End at: 2018-05-25 04:06:22

Local clock offset: 0.48 ms

Remote clock offset: 2.509 ms

# Below is generated by plot.py at 2018-05-25 04:55:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 37.430 ms

Loss rate: 1.34%

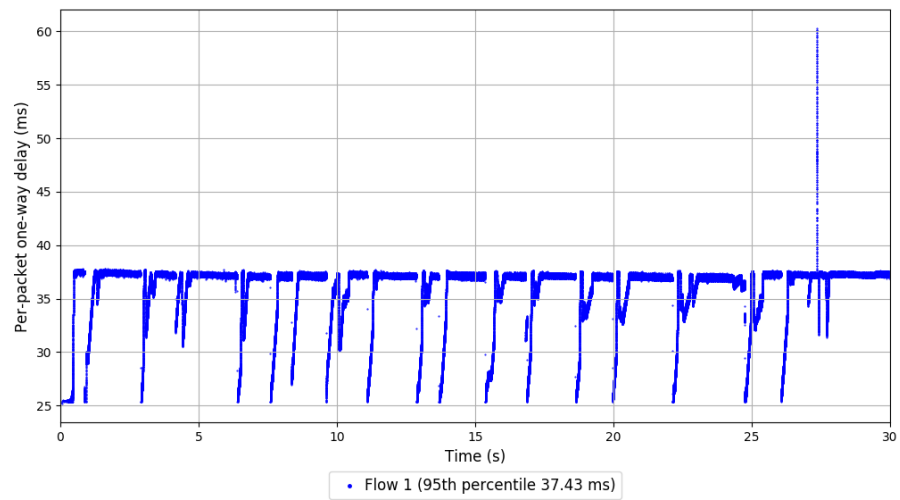
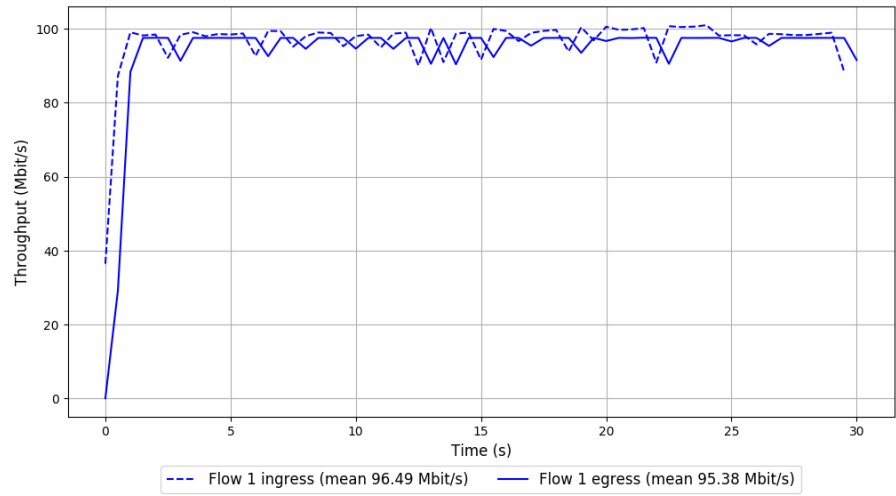
-- Flow 1:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 37.430 ms

Loss rate: 1.34%

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



Run 9: Statistics of TCP BBR

Start at: 2018-05-25 04:26:41

End at: 2018-05-25 04:27:11

Local clock offset: 0.631 ms

Remote clock offset: 0.422 ms

# Below is generated by plot.py at 2018-05-25 04:56:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 44.106 ms

Loss rate: 1.22%

-- Flow 1:

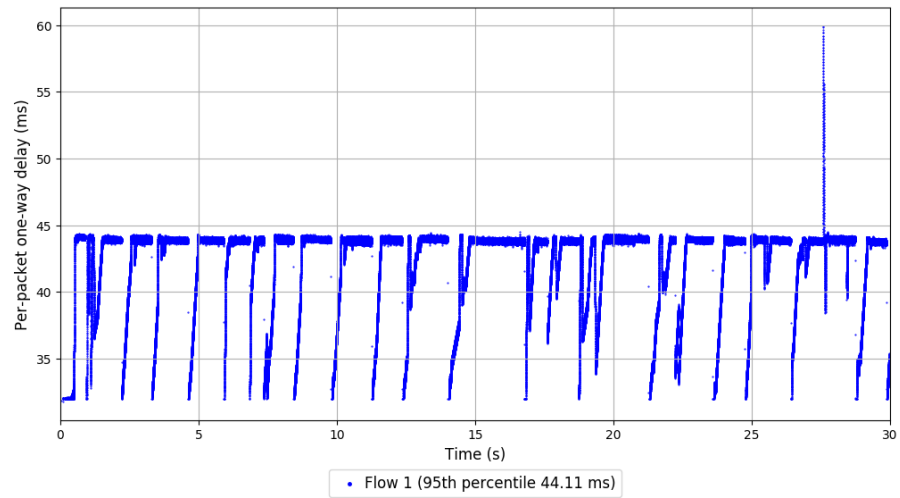
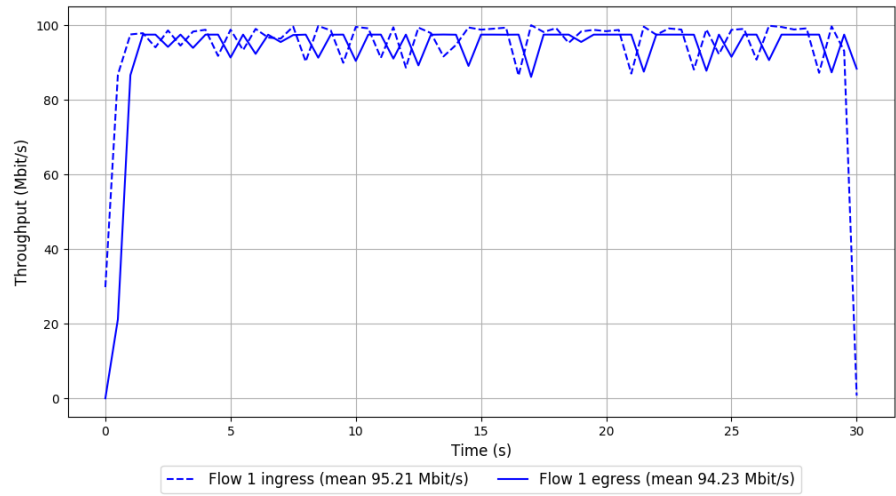
Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 44.106 ms

Loss rate: 1.22%



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



Run 10: Statistics of TCP BBR

Start at: 2018-05-25 04:47:30

End at: 2018-05-25 04:48:00

Local clock offset: -0.174 ms

Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2018-05-25 04:56:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 38.358 ms

Loss rate: 1.05%

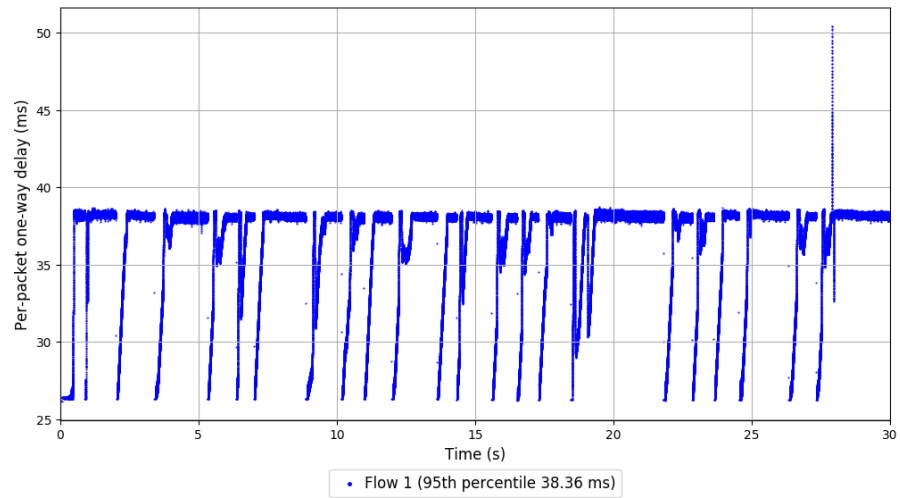
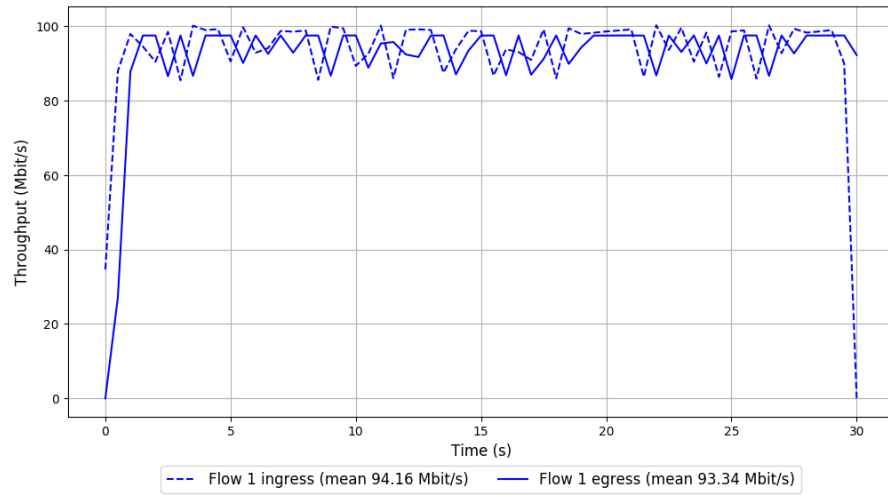
-- Flow 1:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 38.358 ms

Loss rate: 1.05%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-25 01:42:29

End at: 2018-05-25 01:42:59

Local clock offset: 0.491 ms

Remote clock offset: 3.14 ms

# Below is generated by plot.py at 2018-05-25 04:57:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 28.848 ms

Loss rate: 0.19%

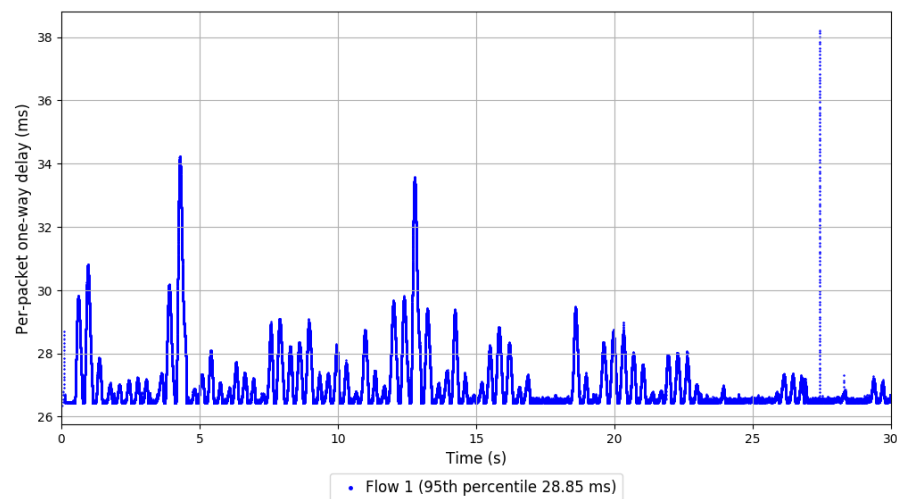
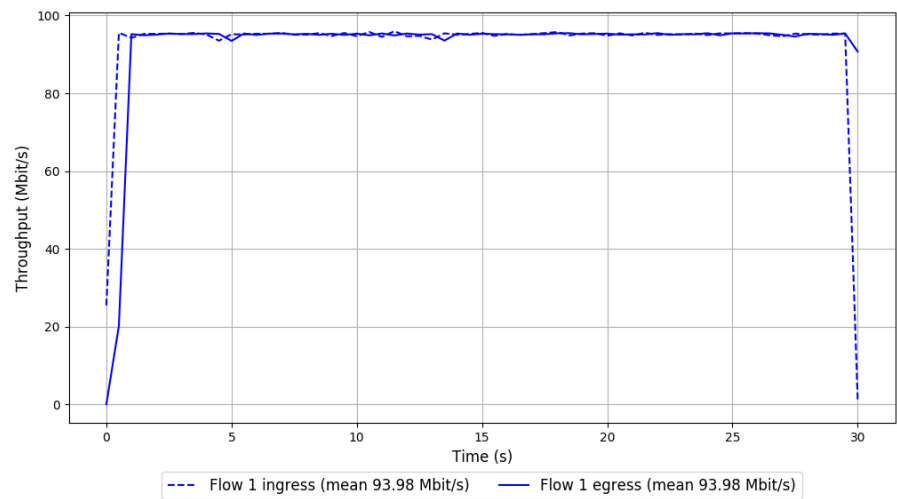
-- Flow 1:

Average throughput: 93.98 Mbit/s

95th percentile per-packet one-way delay: 28.848 ms

Loss rate: 0.19%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-25 02:03:16

End at: 2018-05-25 02:03:46

Local clock offset: 0.273 ms

Remote clock offset: 3.259 ms

# Below is generated by plot.py at 2018-05-25 04:57:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 36.552 ms

Loss rate: 0.23%

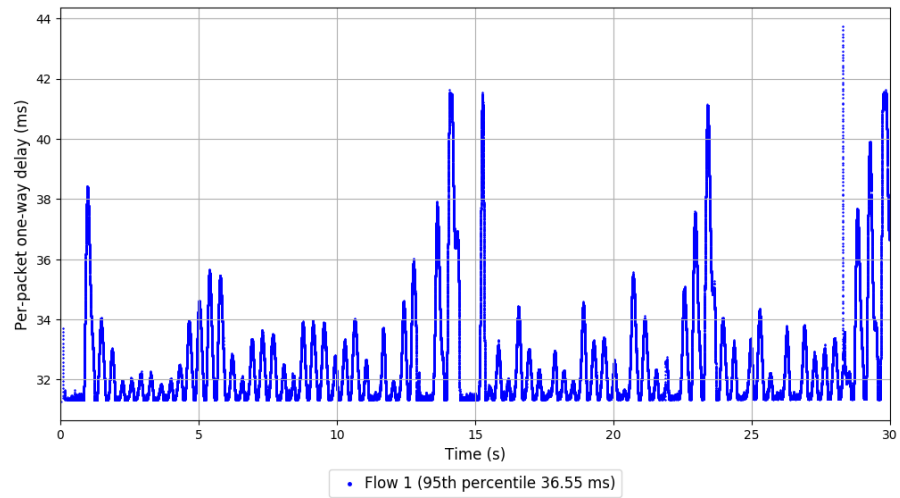
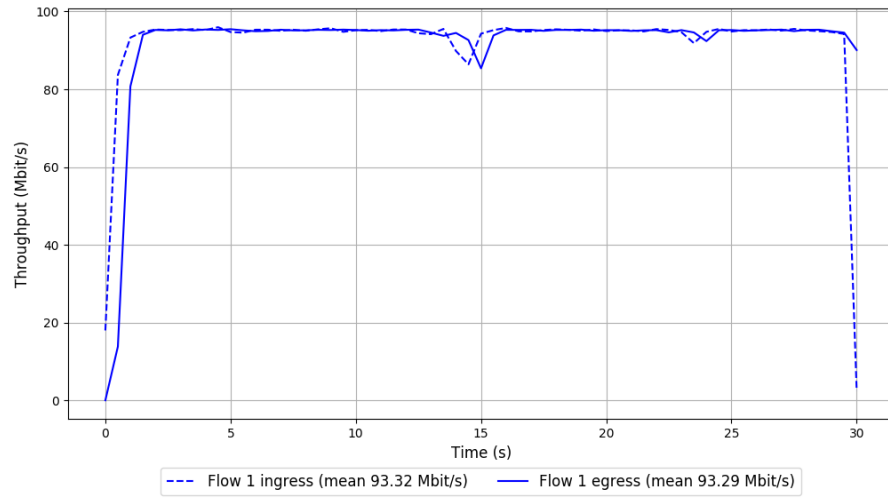
-- Flow 1:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 36.552 ms

Loss rate: 0.23%

## Run 2: Report of Copa — Data Link



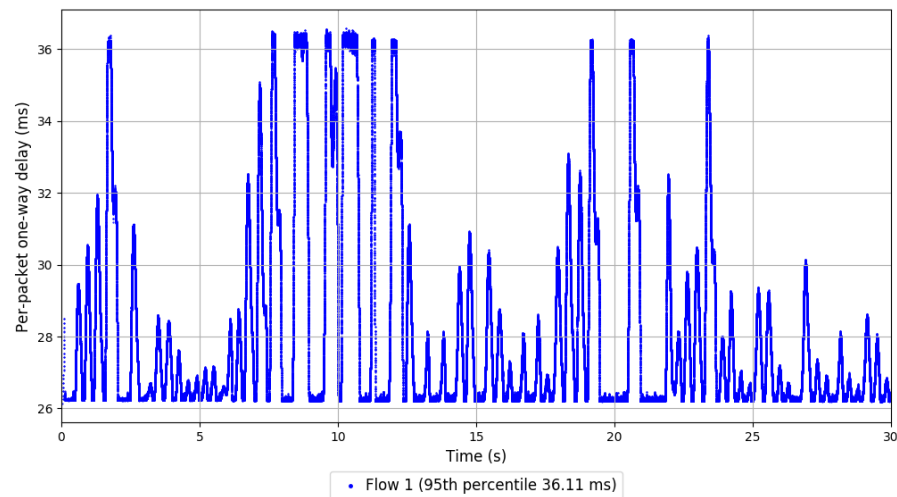
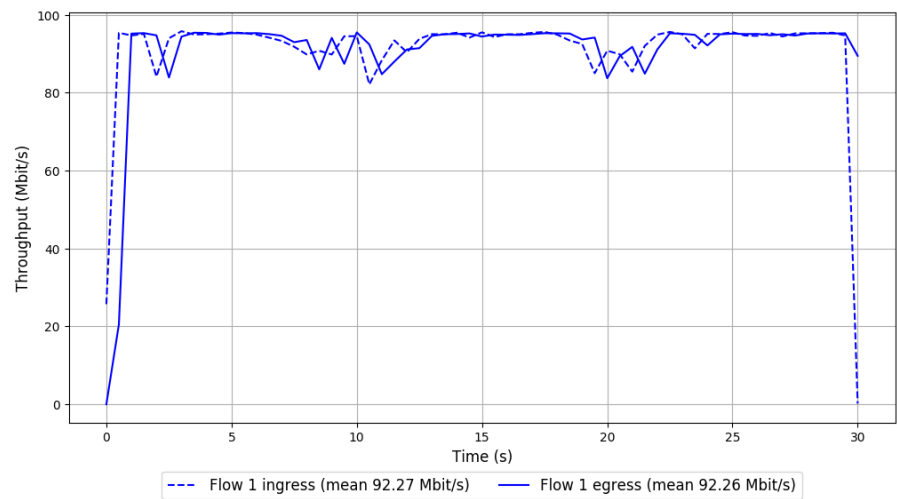
Run 3: Statistics of Copa

Start at: 2018-05-25 02:24:03  
End at: 2018-05-25 02:24:33  
Local clock offset: 0.401 ms  
Remote clock offset: 3.625 ms

# Below is generated by plot.py at 2018-05-25 04:57:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.26 Mbit/s  
95th percentile per-packet one-way delay: 36.111 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 92.26 Mbit/s  
95th percentile per-packet one-way delay: 36.111 ms  
Loss rate: 0.20%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-25 02:44:49

End at: 2018-05-25 02:45:20

Local clock offset: 0.154 ms

Remote clock offset: 1.253 ms

# Below is generated by plot.py at 2018-05-25 04:57:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 34.950 ms

Loss rate: 0.20%

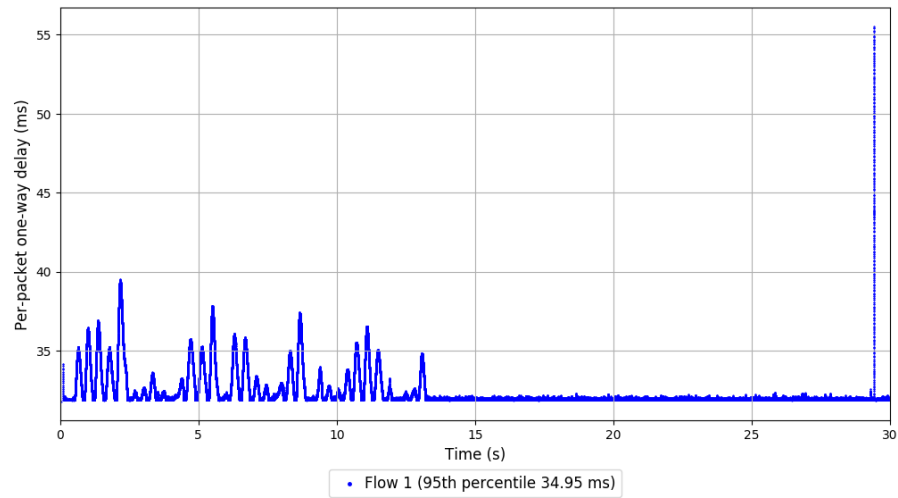
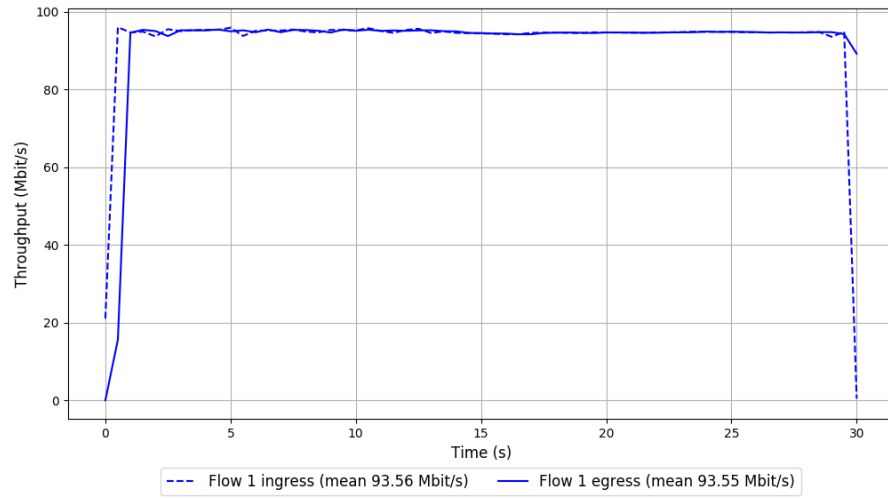
-- Flow 1:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 34.950 ms

Loss rate: 0.20%

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



Run 5: Statistics of Copa

Start at: 2018-05-25 03:05:39

End at: 2018-05-25 03:06:09

Local clock offset: 0.184 ms

Remote clock offset: 2.455 ms

# Below is generated by plot.py at 2018-05-25 04:57:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 32.802 ms

Loss rate: 0.21%

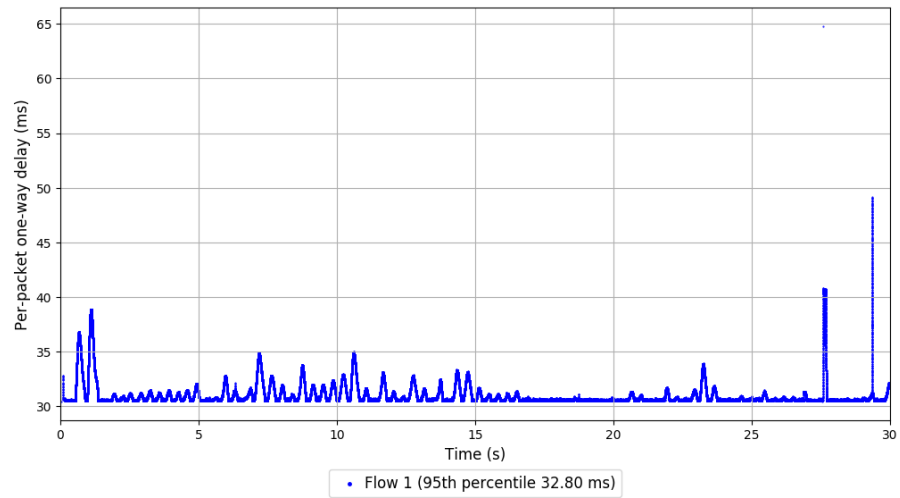
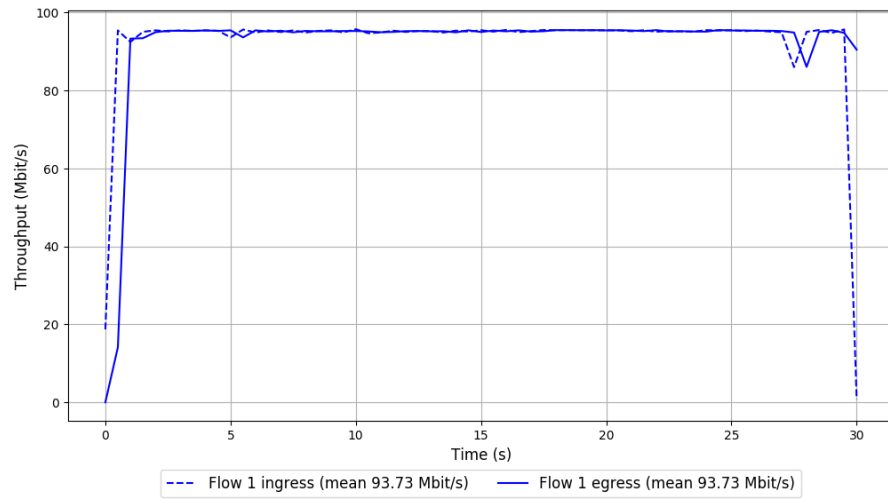
-- Flow 1:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 32.802 ms

Loss rate: 0.21%

### Run 5: Report of Copa — Data Link

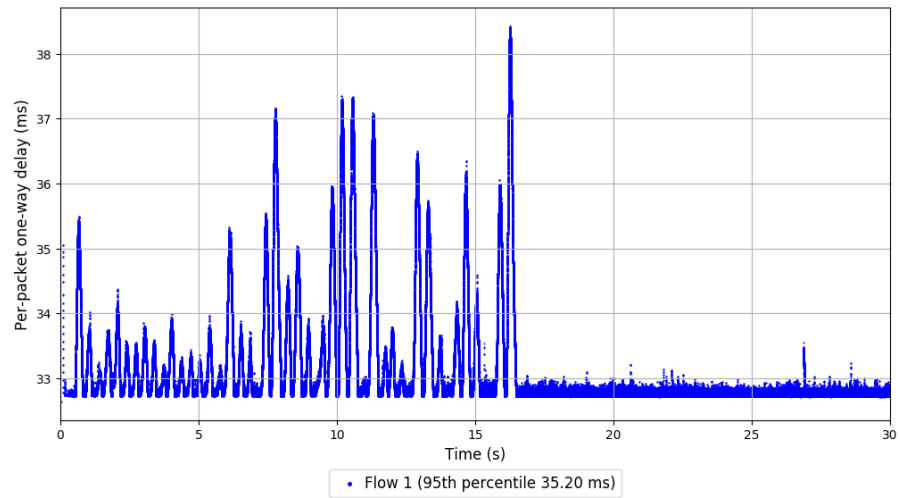
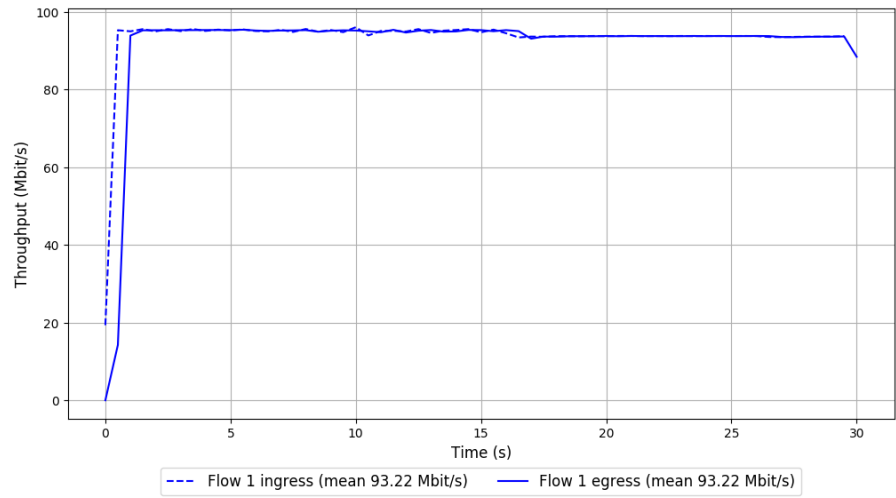


Run 6: Statistics of Copa

Start at: 2018-05-25 03:26:44  
End at: 2018-05-25 03:27:14  
Local clock offset: 0.072 ms  
Remote clock offset: -0.469 ms

# Below is generated by plot.py at 2018-05-25 04:57:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.22 Mbit/s  
95th percentile per-packet one-way delay: 35.205 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 93.22 Mbit/s  
95th percentile per-packet one-way delay: 35.205 ms  
Loss rate: 0.20%

## Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-25 03:47:27

End at: 2018-05-25 03:47:57

Local clock offset: 0.042 ms

Remote clock offset: 2.106 ms

# Below is generated by plot.py at 2018-05-25 04:58:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 29.190 ms

Loss rate: 0.19%

-- Flow 1:

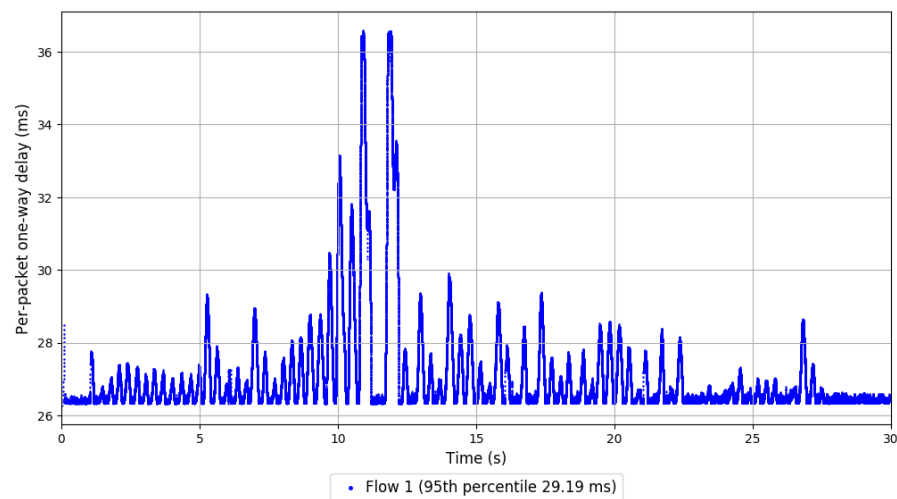
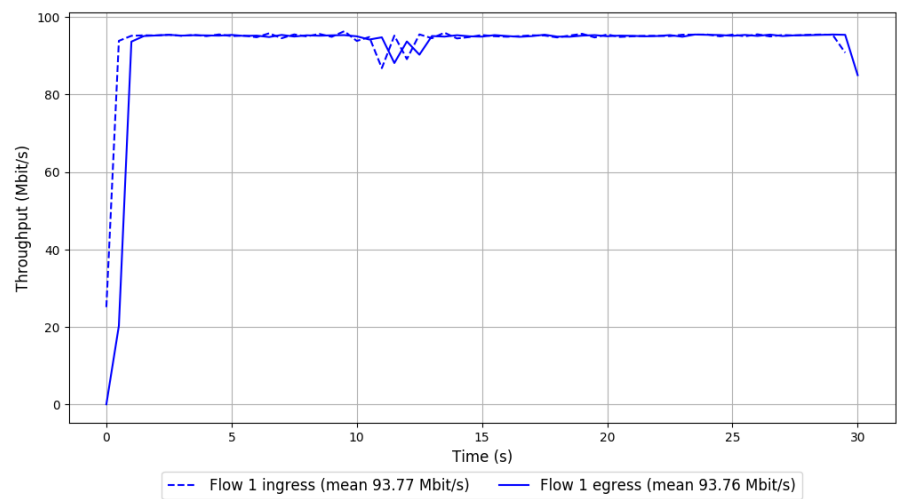
Average throughput: 93.76 Mbit/s

95th percentile per-packet one-way delay: 29.190 ms

Loss rate: 0.19%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 04:08:27

End at: 2018-05-25 04:08:57

Local clock offset: 0.446 ms

Remote clock offset: 2.228 ms

# Below is generated by plot.py at 2018-05-25 04:58:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 34.277 ms

Loss rate: 0.15%

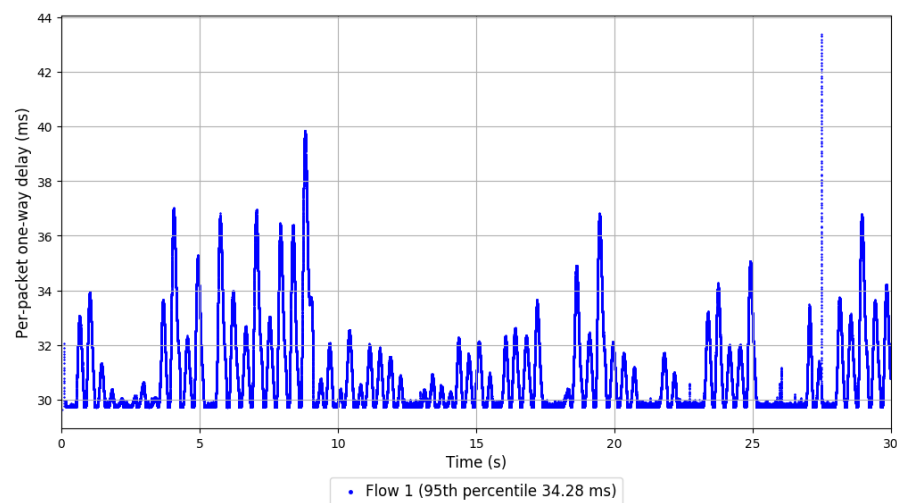
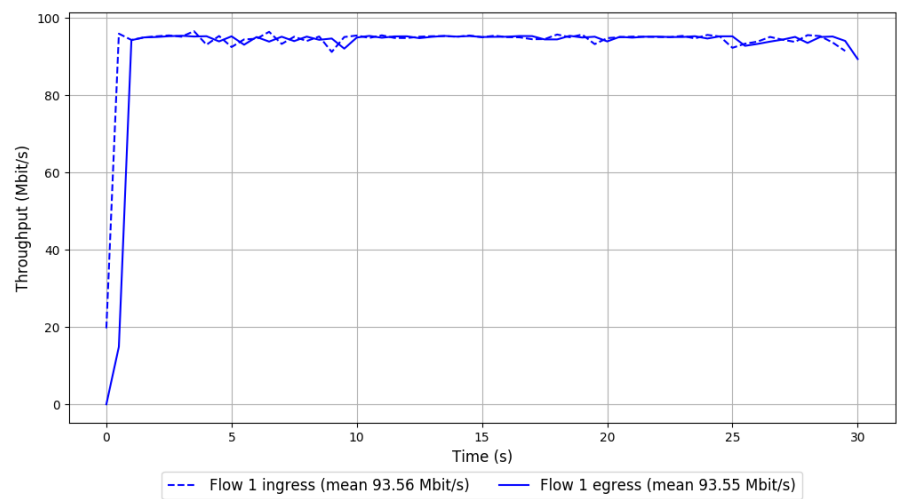
-- Flow 1:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 34.277 ms

Loss rate: 0.15%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-25 04:29:16

End at: 2018-05-25 04:29:46

Local clock offset: 0.357 ms

Remote clock offset: 2.529 ms

# Below is generated by plot.py at 2018-05-25 04:59:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.23 Mbit/s

95th percentile per-packet one-way delay: 34.888 ms

Loss rate: 0.21%

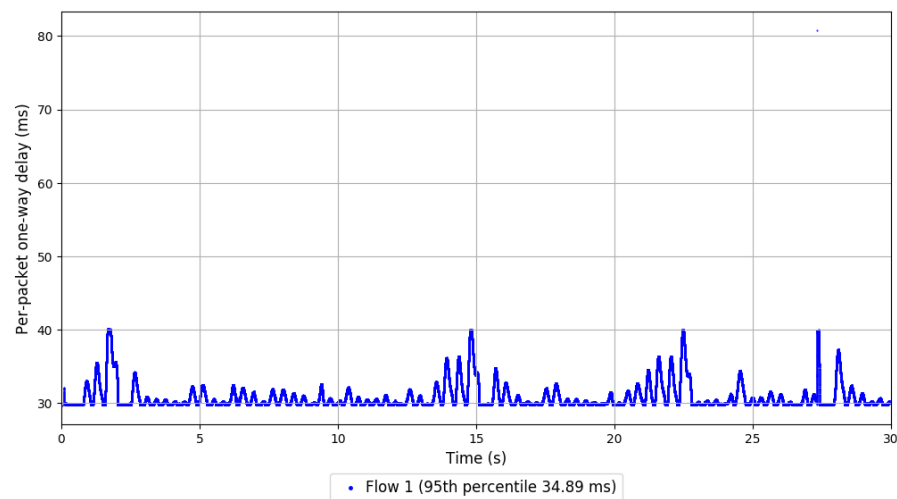
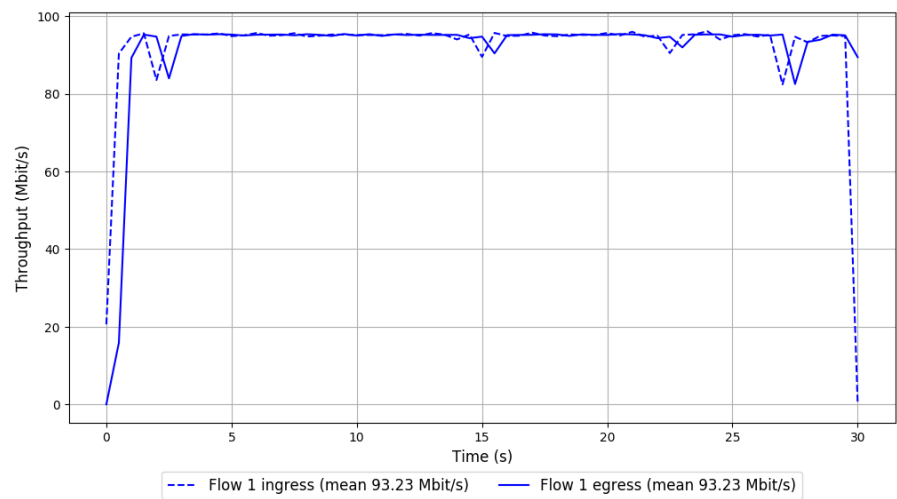
-- Flow 1:

Average throughput: 93.23 Mbit/s

95th percentile per-packet one-way delay: 34.888 ms

Loss rate: 0.21%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-25 04:50:05

End at: 2018-05-25 04:50:35

Local clock offset: -0.119 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-05-25 04:59:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 32.317 ms

Loss rate: 0.23%

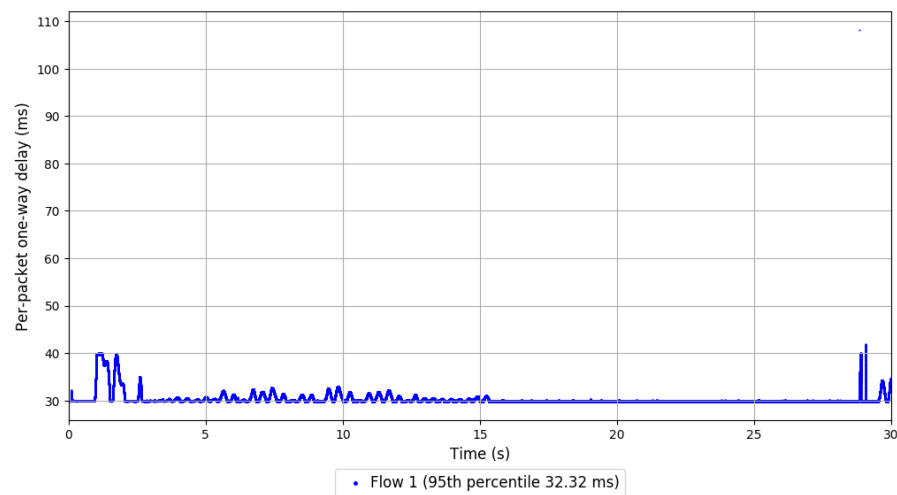
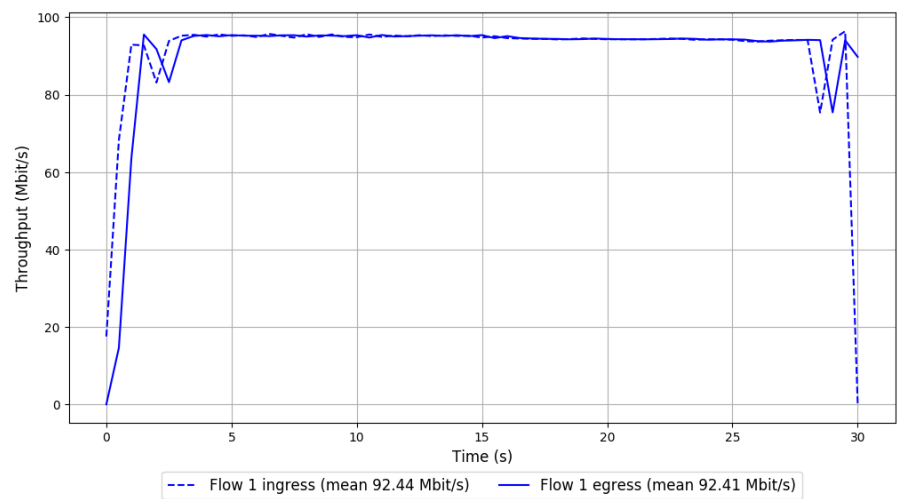
-- Flow 1:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 32.317 ms

Loss rate: 0.23%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 01:24:23

End at: 2018-05-25 01:24:53

Local clock offset: 0.858 ms

Remote clock offset: 2.926 ms

# Below is generated by plot.py at 2018-05-25 04:59:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 36.220 ms

Loss rate: 0.25%

-- Flow 1:

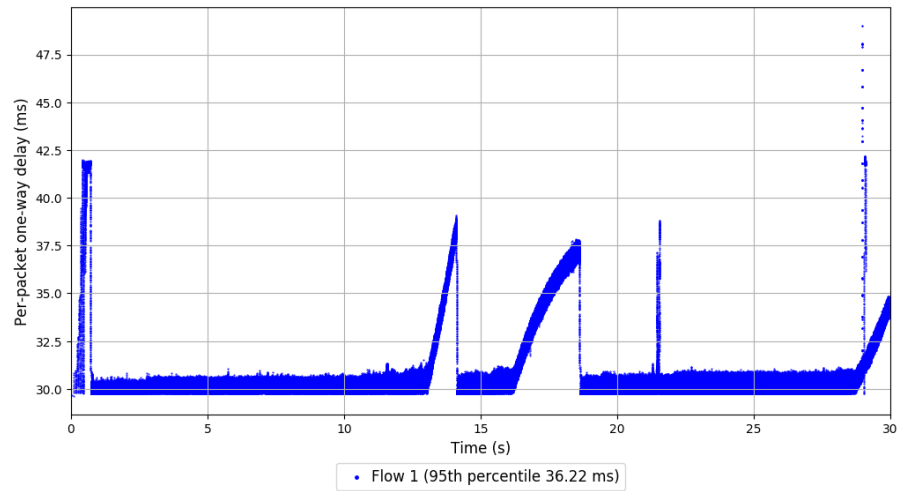
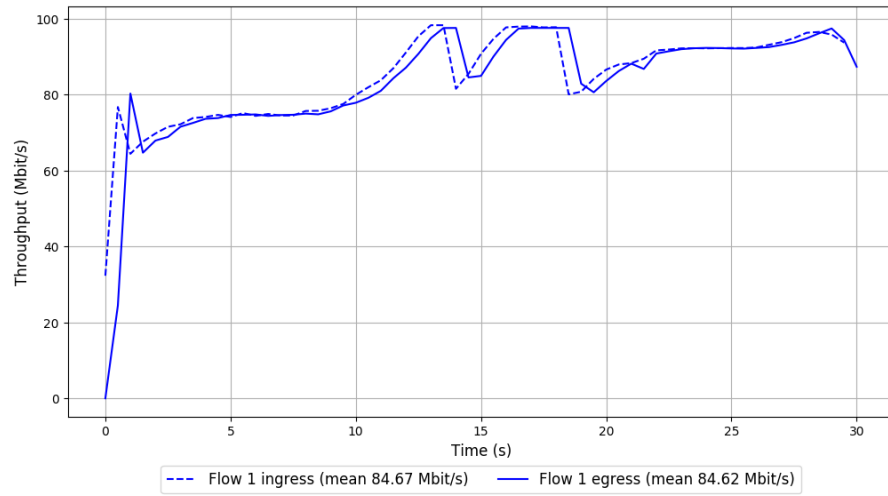
Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 36.220 ms

Loss rate: 0.25%



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



Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 01:45:06

End at: 2018-05-25 01:45:36

Local clock offset: 0.499 ms

Remote clock offset: 3.119 ms

# Below is generated by plot.py at 2018-05-25 04:59:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 36.576 ms

Loss rate: 0.25%

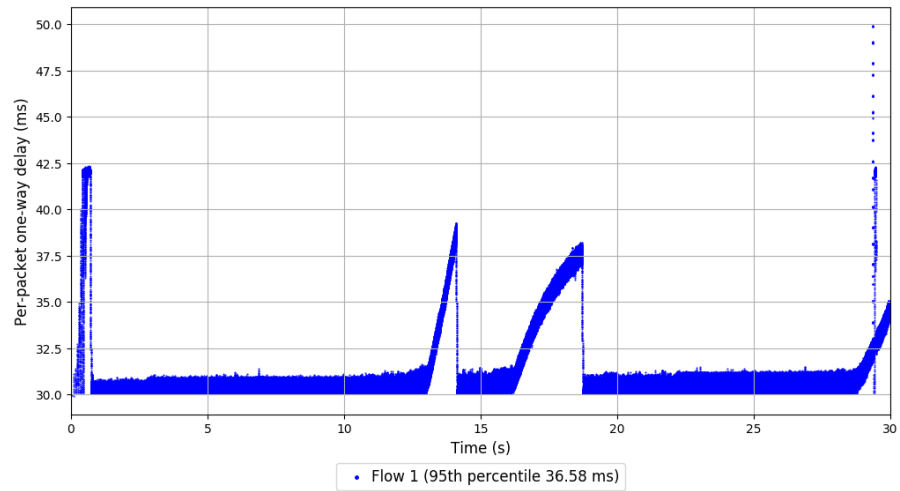
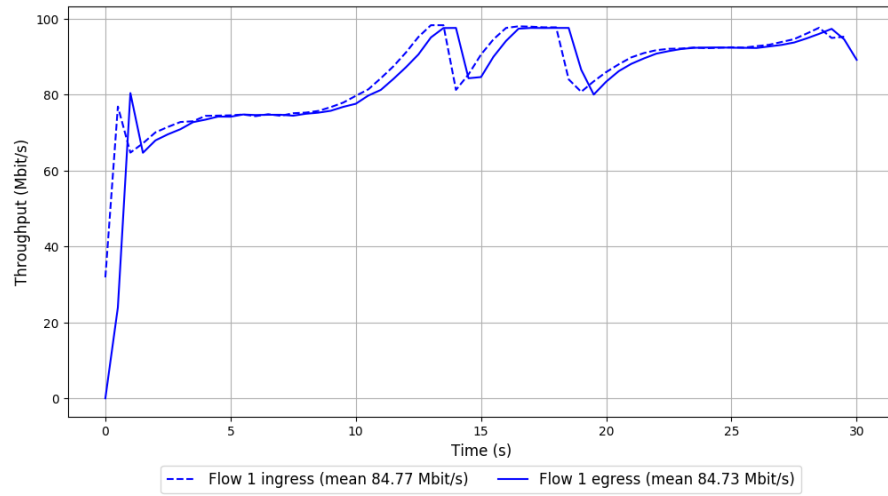
-- Flow 1:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 36.576 ms

Loss rate: 0.25%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 02:05:53

End at: 2018-05-25 02:06:23

Local clock offset: 0.353 ms

Remote clock offset: 3.713 ms

# Below is generated by plot.py at 2018-05-25 04:59:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.60 Mbit/s

95th percentile per-packet one-way delay: 36.506 ms

Loss rate: 0.25%

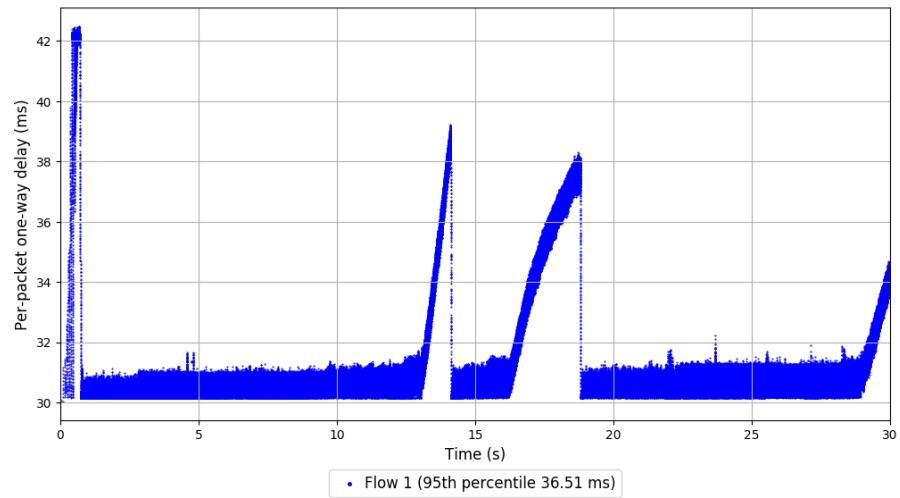
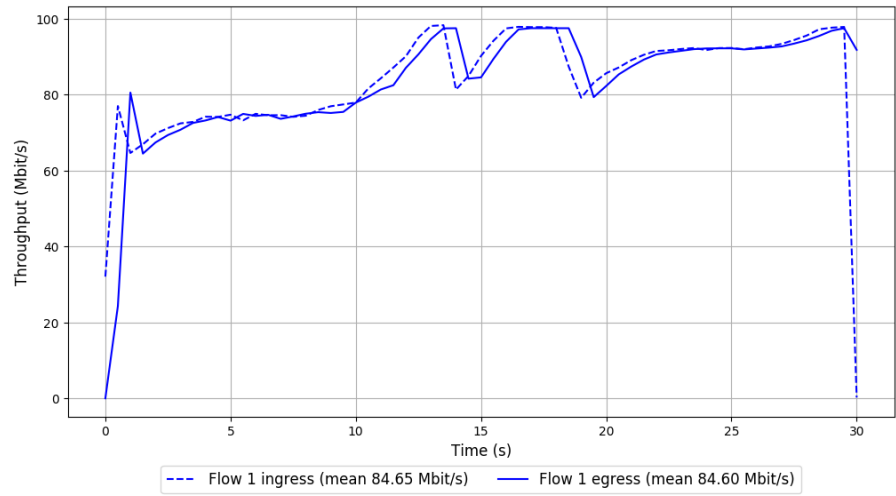
-- Flow 1:

Average throughput: 84.60 Mbit/s

95th percentile per-packet one-way delay: 36.506 ms

Loss rate: 0.25%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 02:26:39

End at: 2018-05-25 02:27:09

Local clock offset: 0.346 ms

Remote clock offset: 1.39 ms

# Below is generated by plot.py at 2018-05-25 04:59:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.24 Mbit/s

95th percentile per-packet one-way delay: 29.458 ms

Loss rate: 0.26%

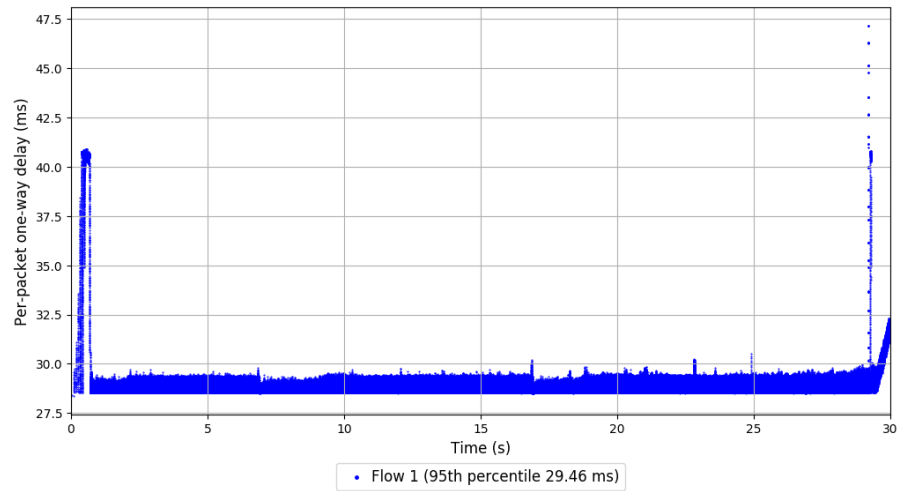
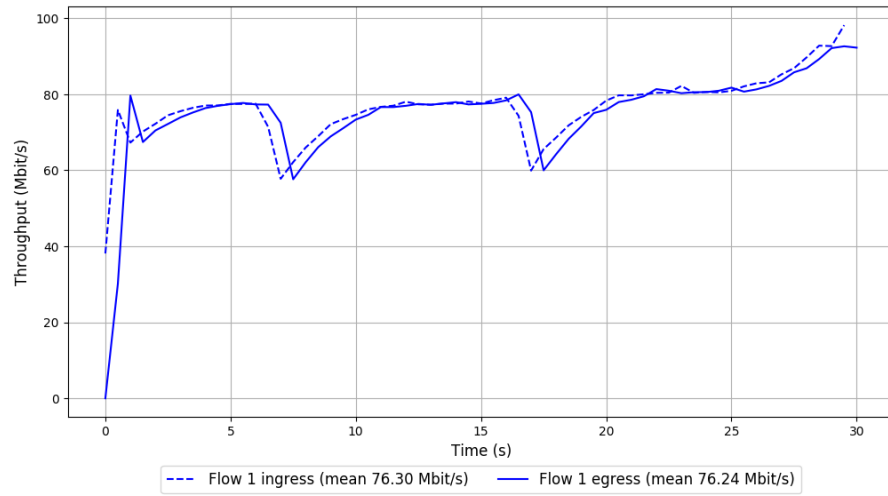
-- Flow 1:

Average throughput: 76.24 Mbit/s

95th percentile per-packet one-way delay: 29.458 ms

Loss rate: 0.26%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 02:47:26

End at: 2018-05-25 02:47:56

Local clock offset: 0.141 ms

Remote clock offset: 3.242 ms

# Below is generated by plot.py at 2018-05-25 04:59:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 37.274 ms

Loss rate: 0.22%

-- Flow 1:

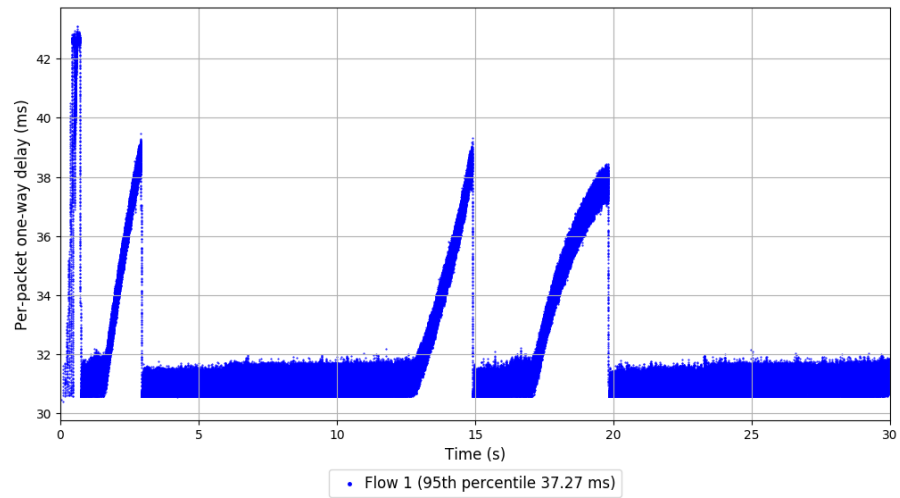
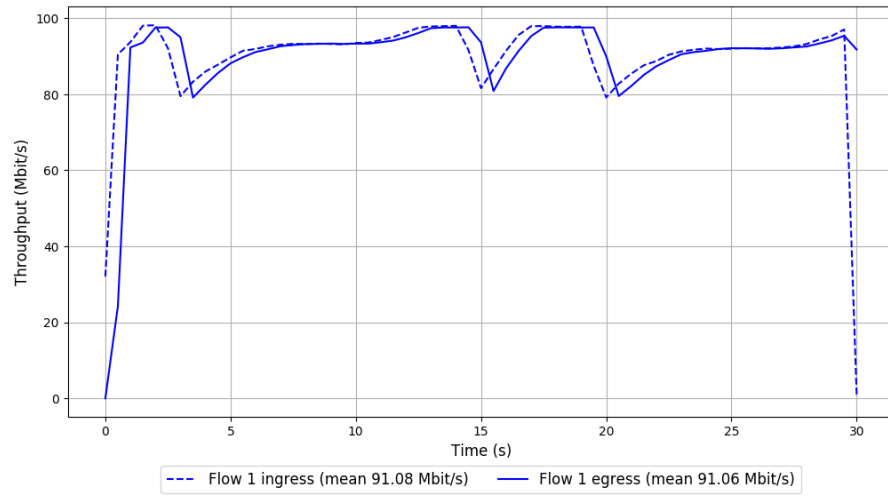
Average throughput: 91.06 Mbit/s

95th percentile per-packet one-way delay: 37.274 ms

Loss rate: 0.22%



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



Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 03:08:17

End at: 2018-05-25 03:08:47

Local clock offset: 0.07 ms

Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-05-25 04:59:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.95 Mbit/s

95th percentile per-packet one-way delay: 35.017 ms

Loss rate: 0.25%

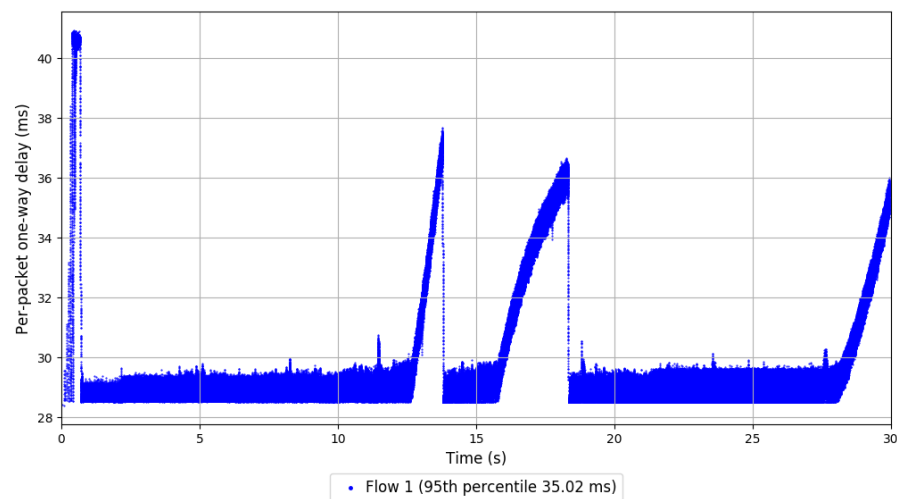
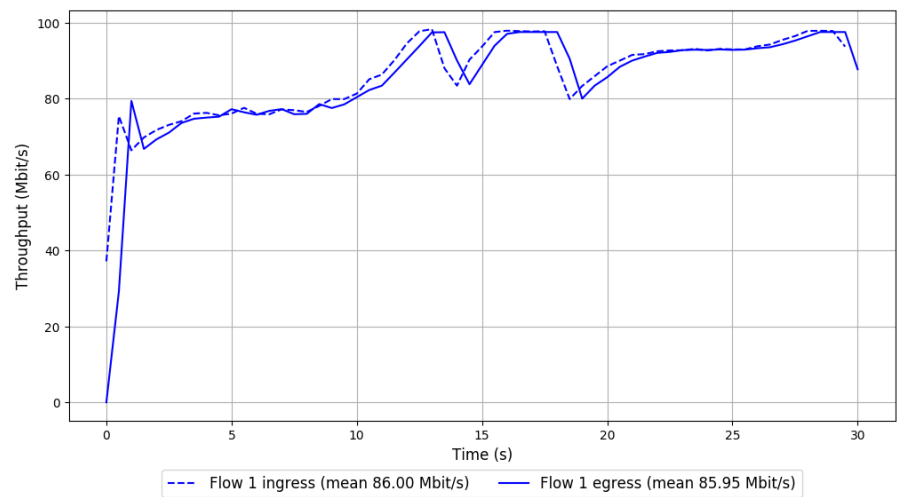
-- Flow 1:

Average throughput: 85.95 Mbit/s

95th percentile per-packet one-way delay: 35.017 ms

Loss rate: 0.25%

Run 6: Report of TCP Cubic — Data Link

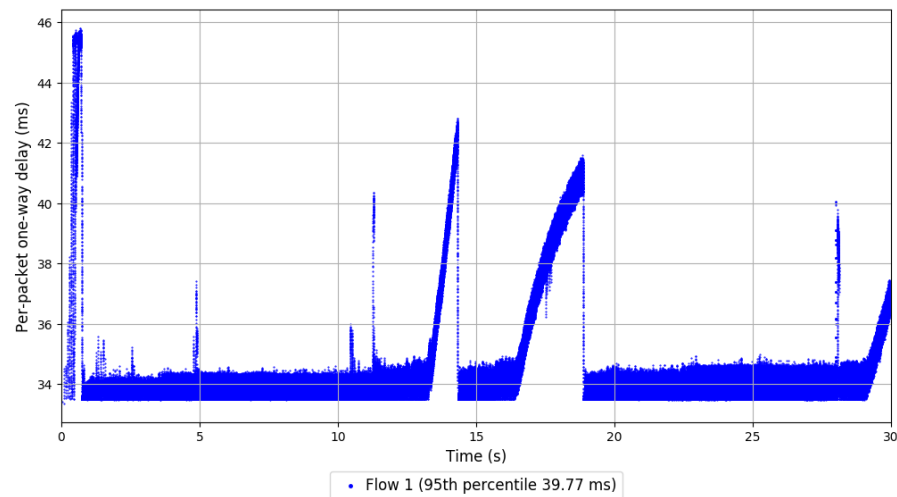
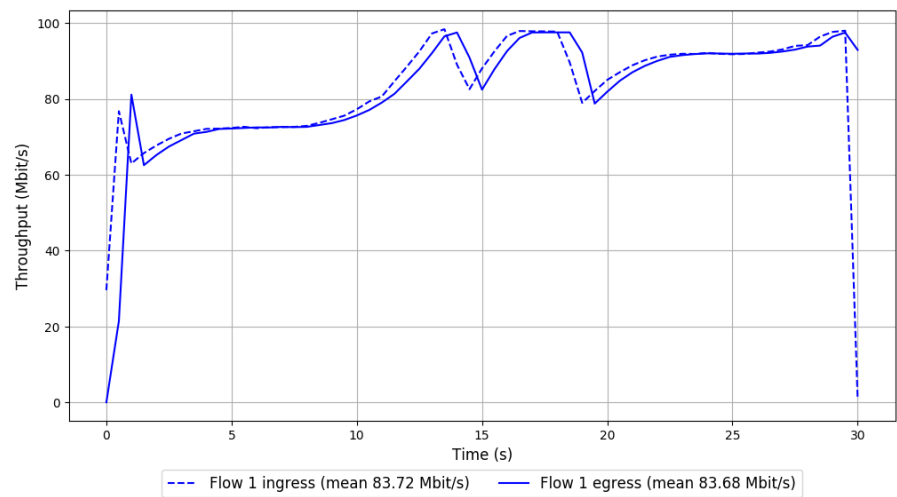


Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 03:29:21  
End at: 2018-05-25 03:29:52  
Local clock offset: 0.143 ms  
Remote clock offset: -0.489 ms

# Below is generated by plot.py at 2018-05-25 04:59:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.68 Mbit/s  
95th percentile per-packet one-way delay: 39.772 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 83.68 Mbit/s  
95th percentile per-packet one-way delay: 39.772 ms  
Loss rate: 0.25%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 03:50:04

End at: 2018-05-25 03:50:34

Local clock offset: -0.038 ms

Remote clock offset: 2.125 ms

# Below is generated by plot.py at 2018-05-25 04:59:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 33.016 ms

Loss rate: 0.20%

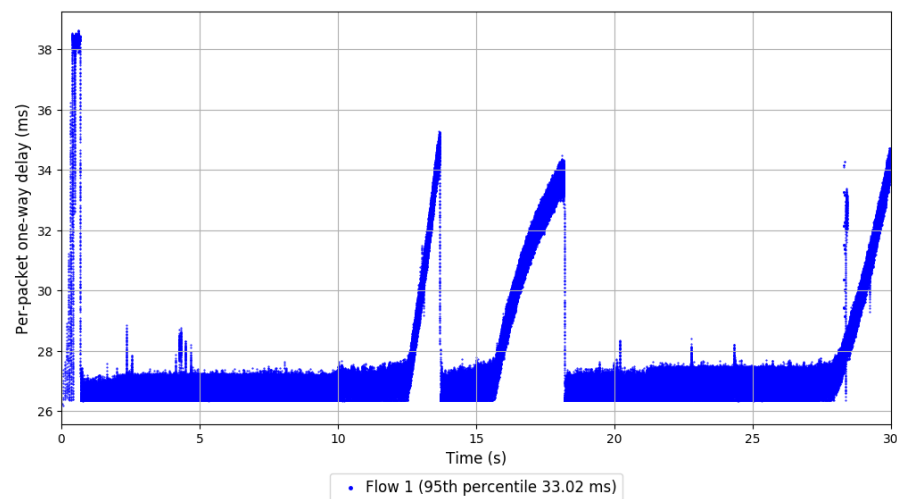
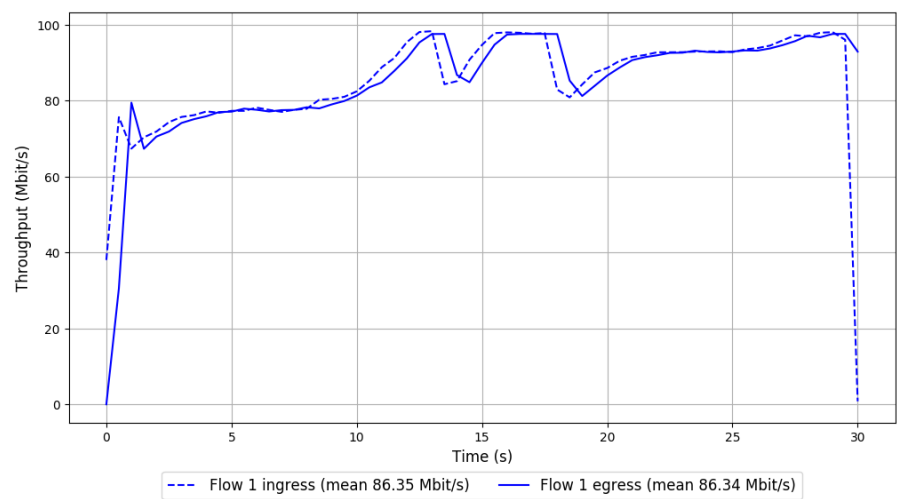
-- Flow 1:

Average throughput: 86.34 Mbit/s

95th percentile per-packet one-way delay: 33.016 ms

Loss rate: 0.20%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 04:11:04

End at: 2018-05-25 04:11:34

Local clock offset: 0.591 ms

Remote clock offset: 2.725 ms

# Below is generated by plot.py at 2018-05-25 04:59:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 37.812 ms

Loss rate: 0.22%

-- Flow 1:

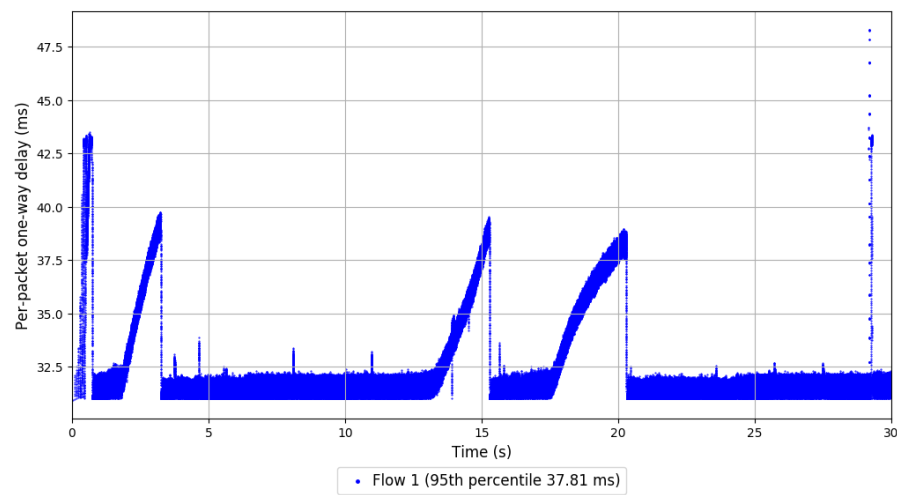
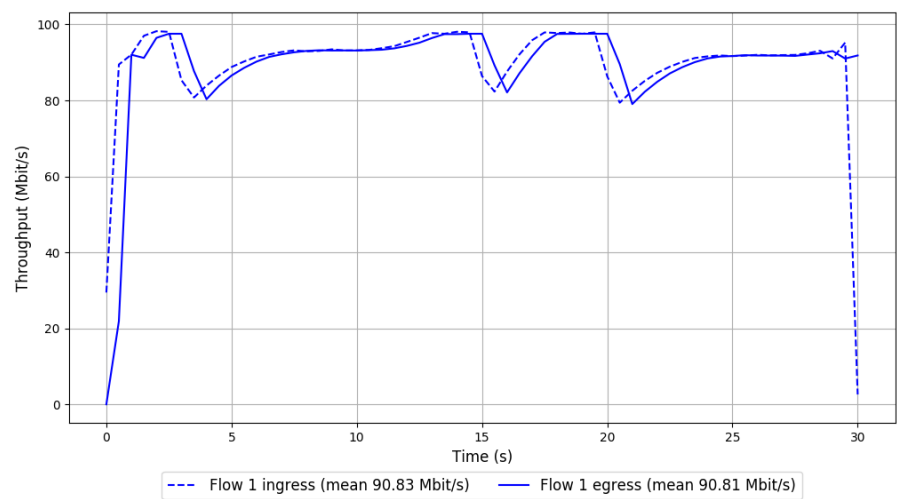
Average throughput: 90.81 Mbit/s

95th percentile per-packet one-way delay: 37.812 ms

Loss rate: 0.22%



Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 04:31:53

End at: 2018-05-25 04:32:23

Local clock offset: 0.29 ms

Remote clock offset: 2.434 ms

# Below is generated by plot.py at 2018-05-25 04:59:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.49 Mbit/s

95th percentile per-packet one-way delay: 33.265 ms

Loss rate: 0.17%

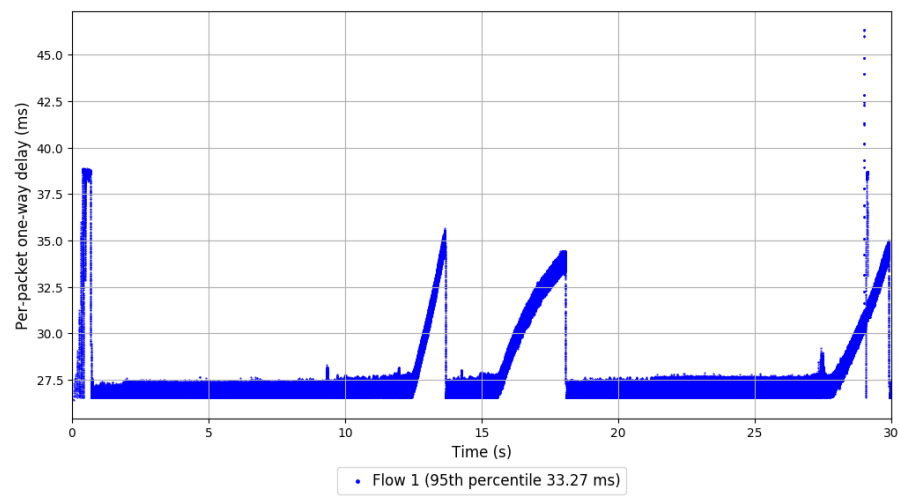
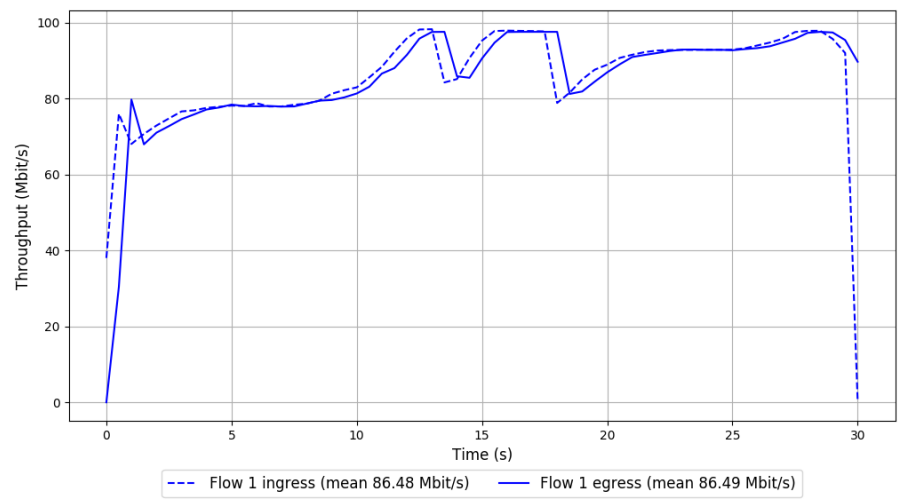
-- Flow 1:

Average throughput: 86.49 Mbit/s

95th percentile per-packet one-way delay: 33.265 ms

Loss rate: 0.17%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-25 01:32:08

End at: 2018-05-25 01:32:38

Local clock offset: 0.644 ms

Remote clock offset: 3.023 ms

# Below is generated by plot.py at 2018-05-25 05:00:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 36.835 ms

Loss rate: 0.23%

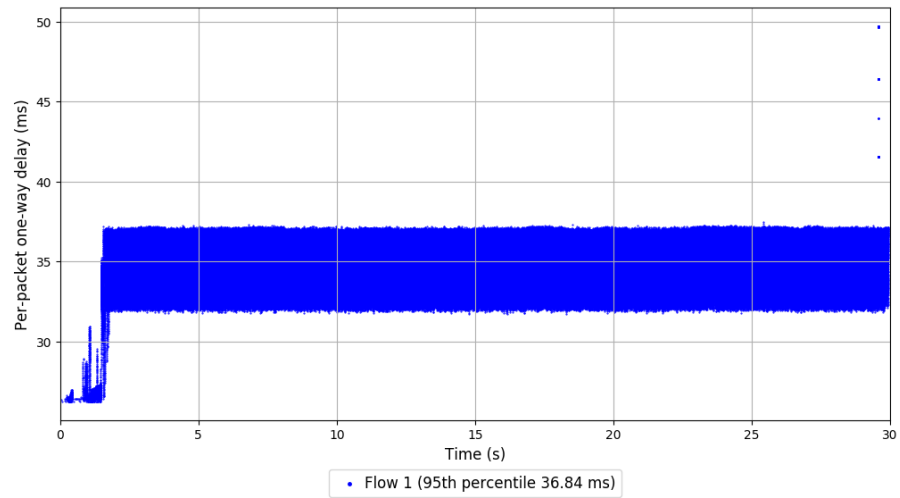
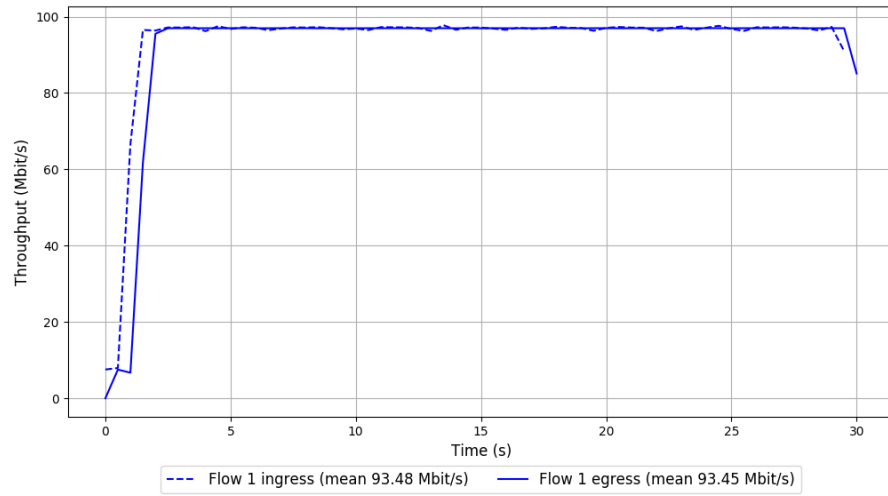
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 36.835 ms

Loss rate: 0.23%

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



Run 2: Statistics of FillP

Start at: 2018-05-25 01:52:52

End at: 2018-05-25 01:53:22

Local clock offset: 0.415 ms

Remote clock offset: 3.175 ms

# Below is generated by plot.py at 2018-05-25 05:00:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 36.040 ms

Loss rate: 0.22%

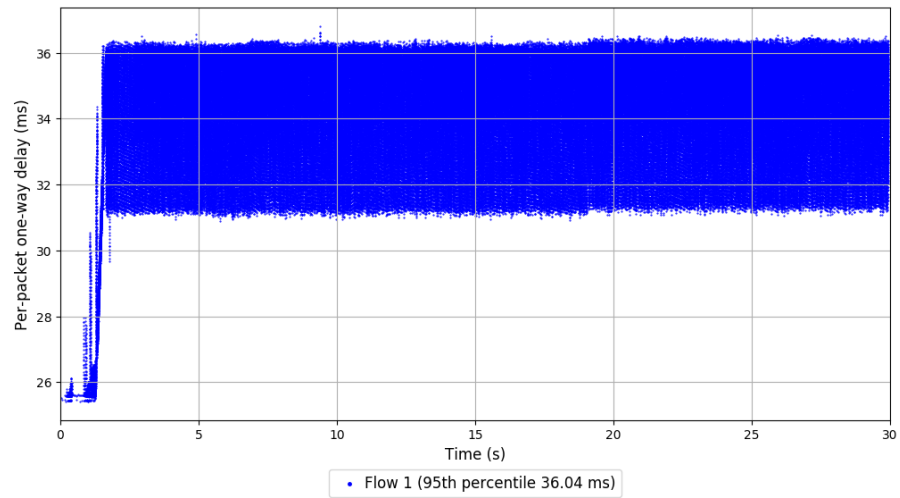
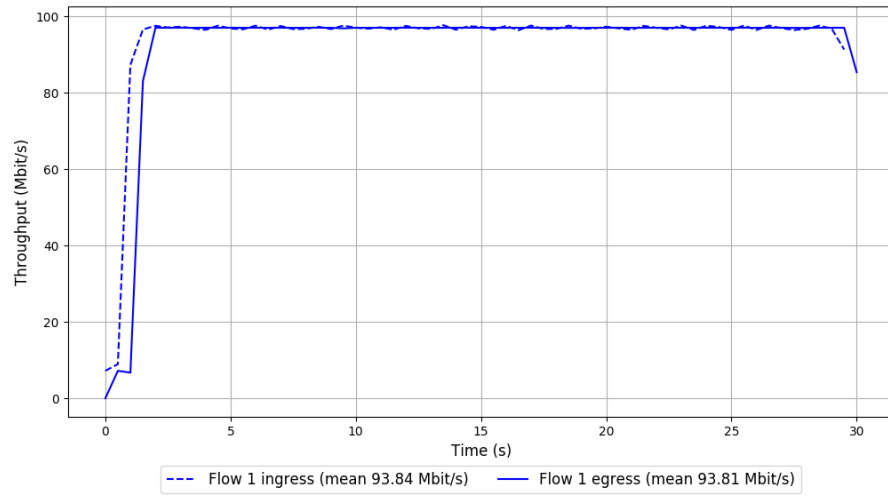
-- Flow 1:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 36.040 ms

Loss rate: 0.22%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-25 02:13:40

End at: 2018-05-25 02:14:10

Local clock offset: 0.265 ms

Remote clock offset: 1.439 ms

# Below is generated by plot.py at 2018-05-25 05:00:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 42.911 ms

Loss rate: 0.23%

-- Flow 1:

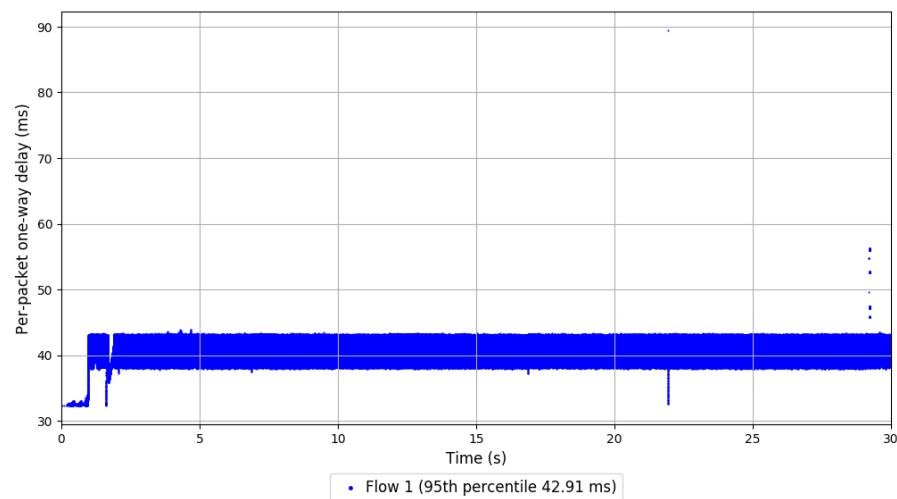
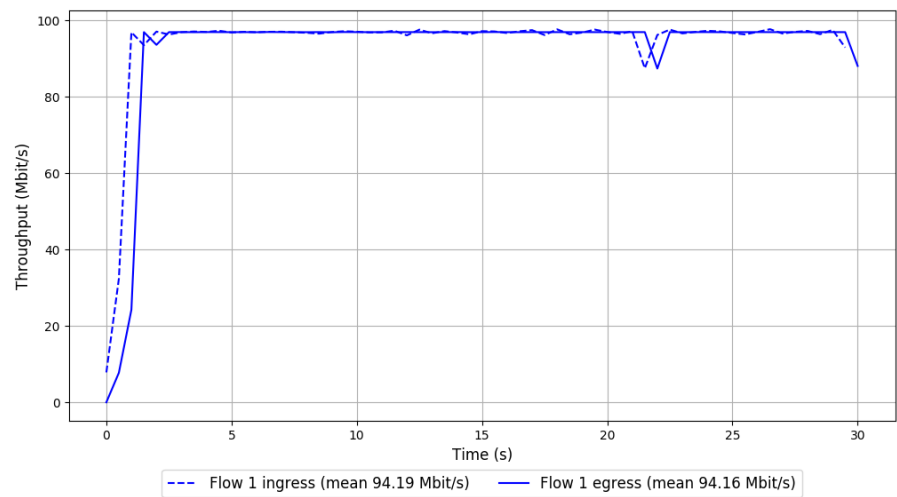
Average throughput: 94.16 Mbit/s

95th percentile per-packet one-way delay: 42.911 ms

Loss rate: 0.23%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-25 02:34:26

End at: 2018-05-25 02:34:56

Local clock offset: 0.135 ms

Remote clock offset: 3.291 ms

# Below is generated by plot.py at 2018-05-25 05:00:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 36.089 ms

Loss rate: 0.22%

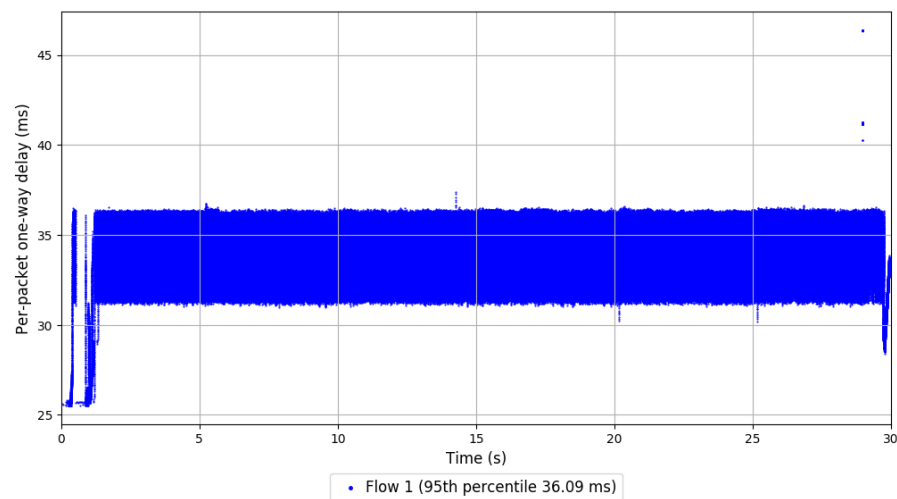
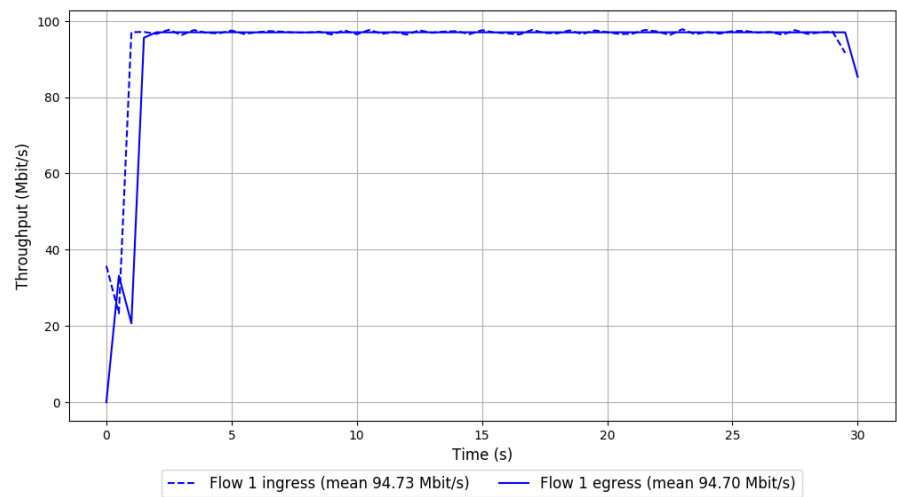
-- Flow 1:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 36.089 ms

Loss rate: 0.22%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-25 02:55:14

End at: 2018-05-25 02:55:44

Local clock offset: 0.055 ms

Remote clock offset: 3.468 ms

# Below is generated by plot.py at 2018-05-25 05:00:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 40.081 ms

Loss rate: 0.23%

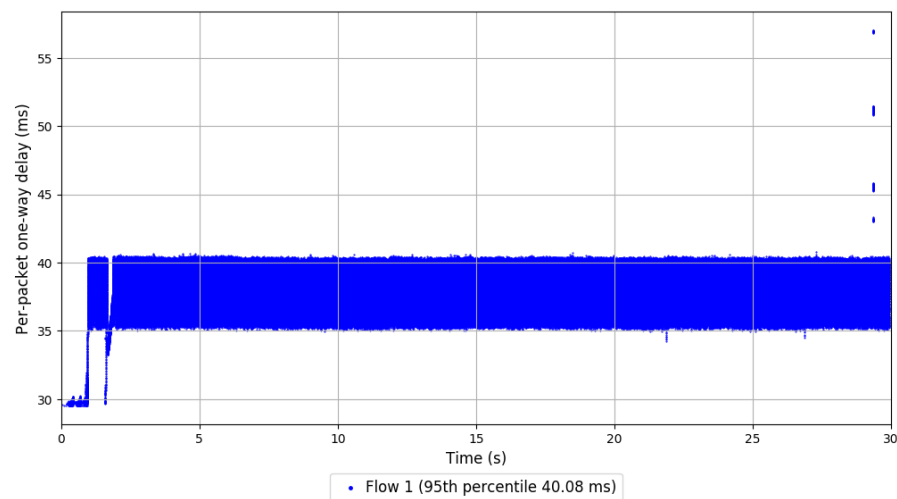
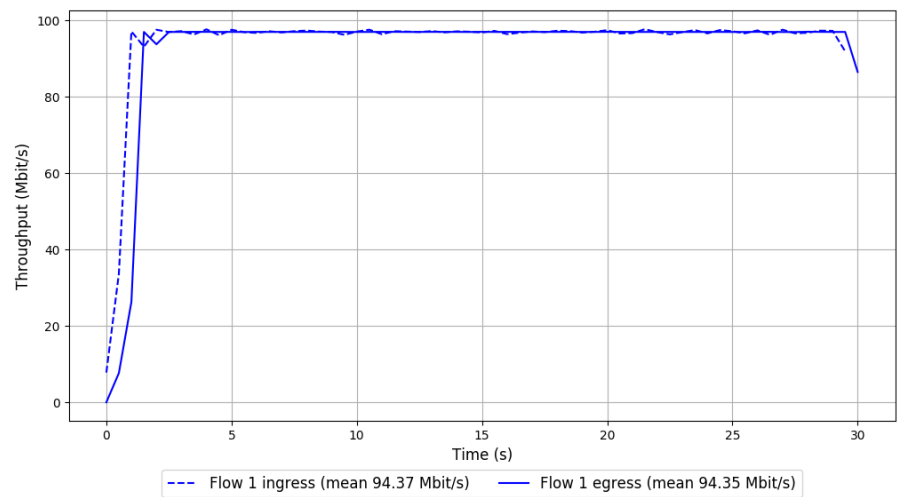
-- Flow 1:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 40.081 ms

Loss rate: 0.23%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-25 03:16:04

End at: 2018-05-25 03:16:34

Local clock offset: 0.167 ms

Remote clock offset: 1.901 ms

# Below is generated by plot.py at 2018-05-25 05:00:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 41.235 ms

Loss rate: 0.24%

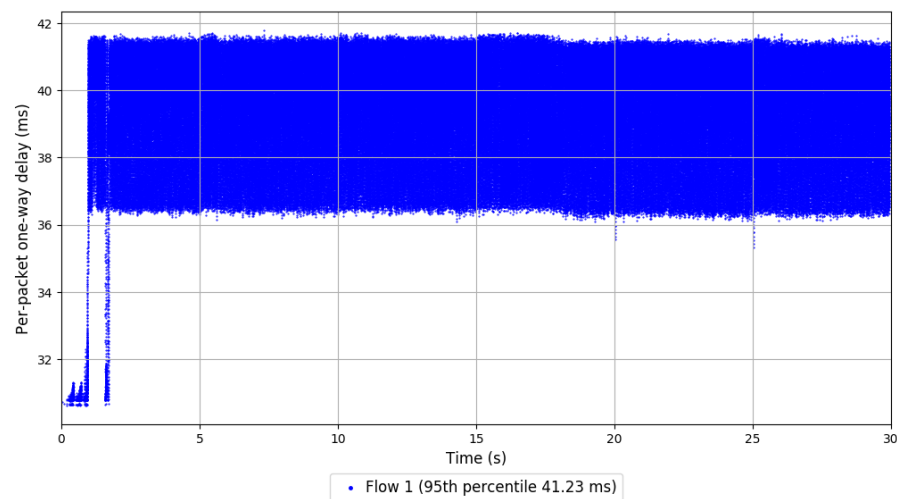
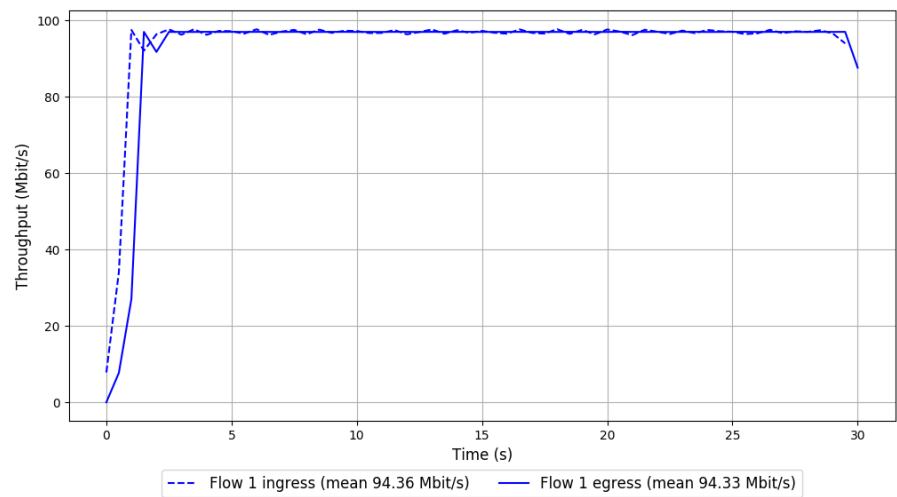
-- Flow 1:

Average throughput: 94.33 Mbit/s

95th percentile per-packet one-way delay: 41.235 ms

Loss rate: 0.24%

Run 6: Report of FillP — Data Link



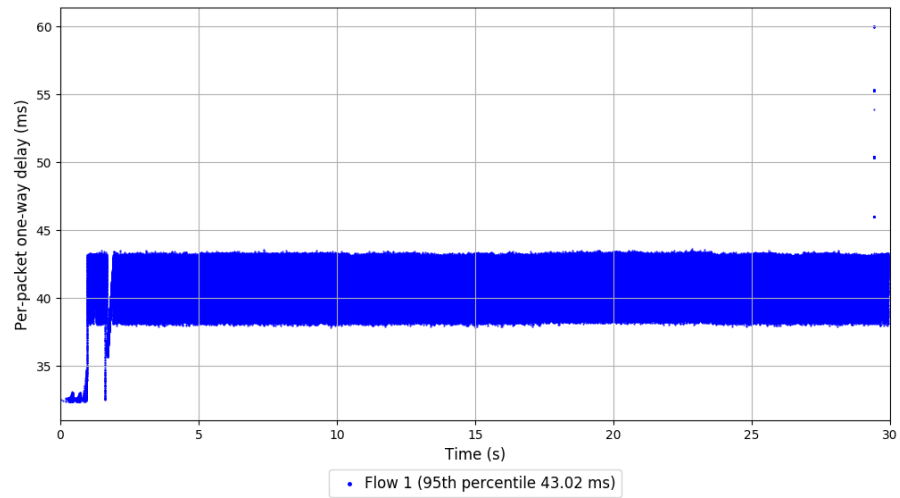
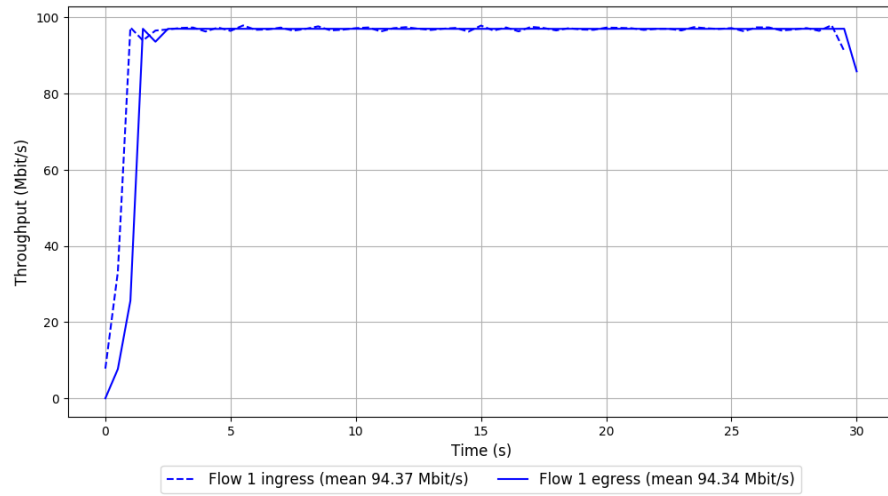
Run 7: Statistics of FillP

Start at: 2018-05-25 03:37:06  
End at: 2018-05-25 03:37:36  
Local clock offset: 0.001 ms  
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-05-25 05:01:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.34 Mbit/s  
95th percentile per-packet one-way delay: 43.016 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 94.34 Mbit/s  
95th percentile per-packet one-way delay: 43.016 ms  
Loss rate: 0.24%



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

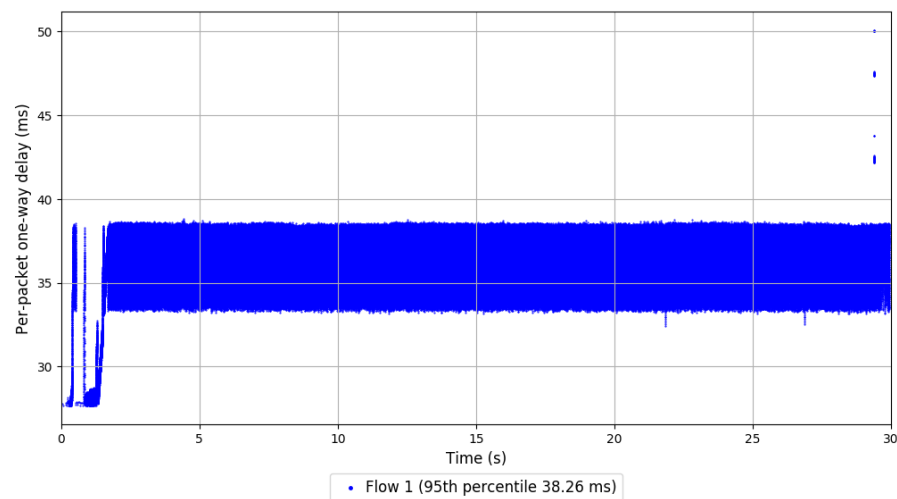
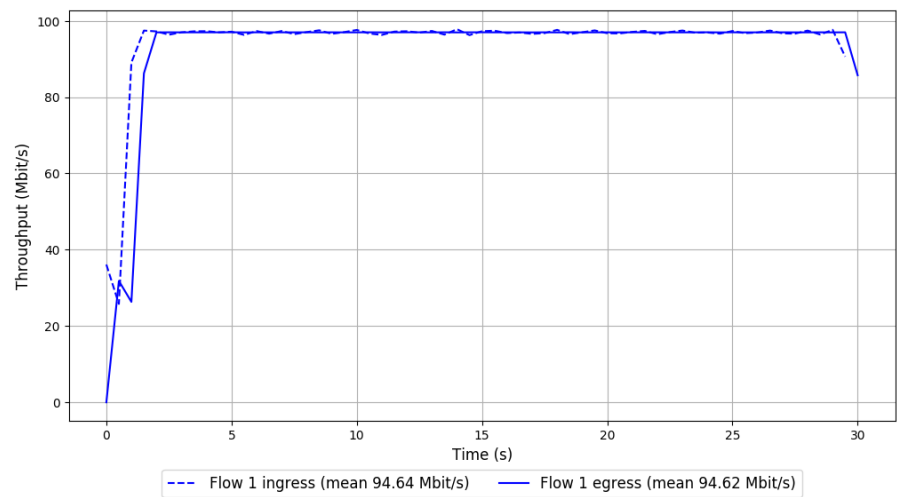


Run 8: Statistics of FillP

Start at: 2018-05-25 03:57:49  
End at: 2018-05-25 03:58:19  
Local clock offset: 0.172 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-05-25 05:01:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.62 Mbit/s  
95th percentile per-packet one-way delay: 38.256 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 94.62 Mbit/s  
95th percentile per-packet one-way delay: 38.256 ms  
Loss rate: 0.21%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-25 04:18:50

End at: 2018-05-25 04:19:20

Local clock offset: 0.676 ms

Remote clock offset: 2.497 ms

# Below is generated by plot.py at 2018-05-25 05:02:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 36.134 ms

Loss rate: 0.22%

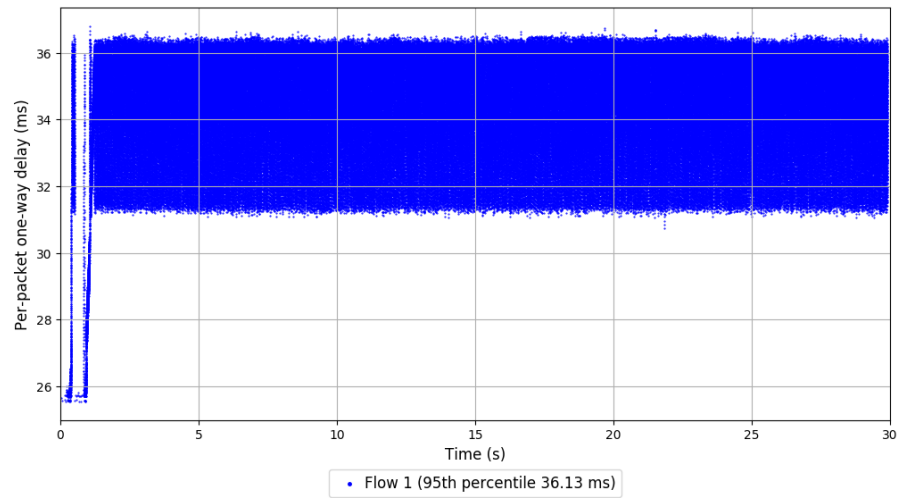
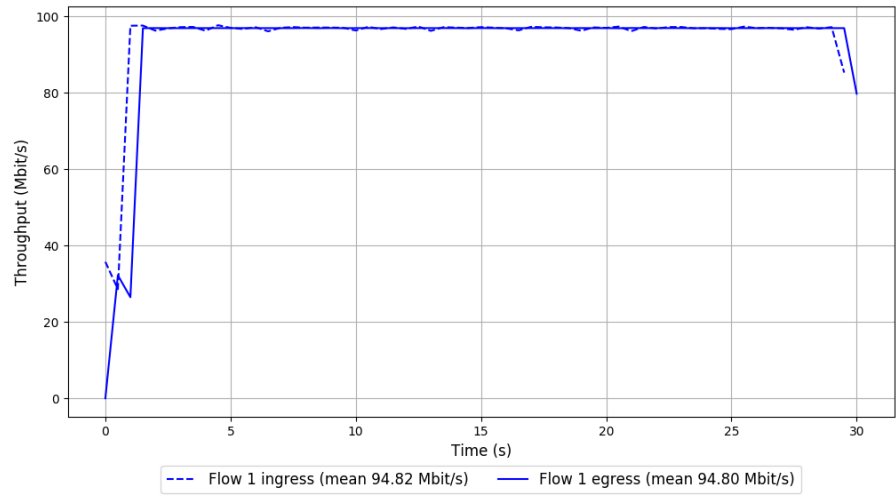
-- Flow 1:

Average throughput: 94.80 Mbit/s

95th percentile per-packet one-way delay: 36.134 ms

Loss rate: 0.22%

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



Run 10: Statistics of FillP

Start at: 2018-05-25 04:39:40

End at: 2018-05-25 04:40:10

Local clock offset: -0.056 ms

Remote clock offset: 0.377 ms

# Below is generated by plot.py at 2018-05-25 05:02:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 43.676 ms

Loss rate: 0.25%

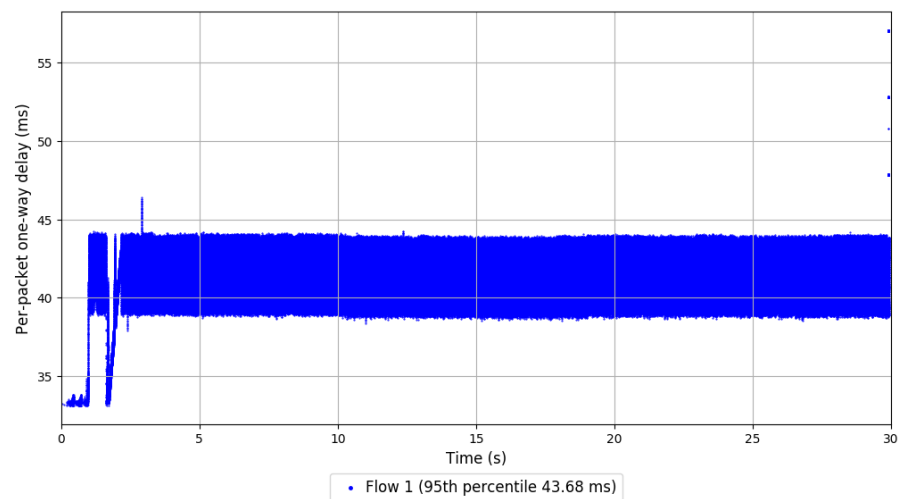
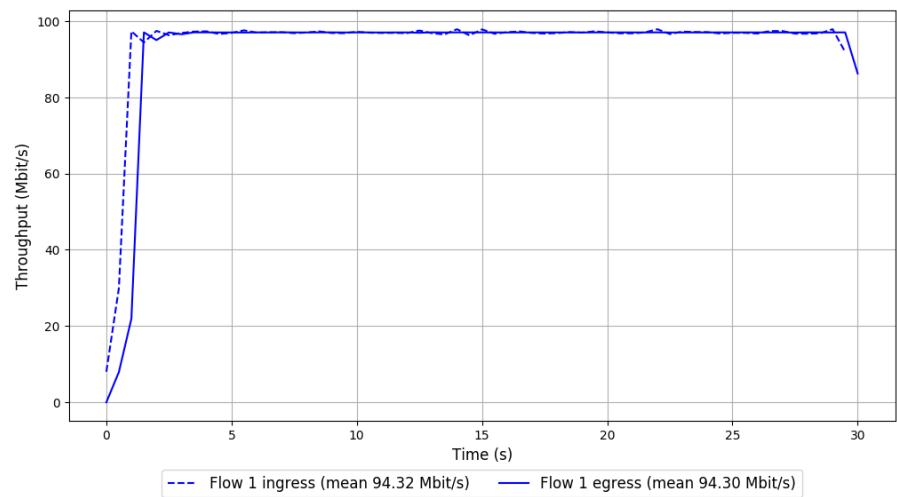
-- Flow 1:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 43.676 ms

Loss rate: 0.25%

Run 10: Report of FillP — Data Link



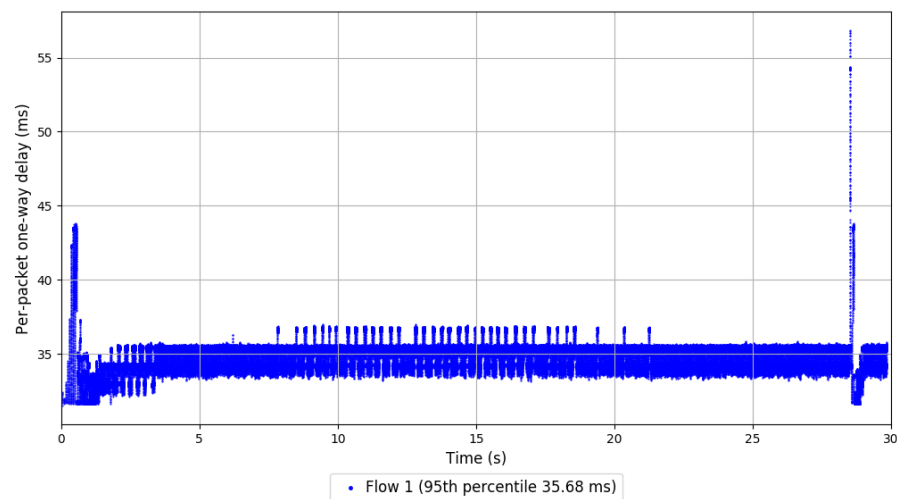
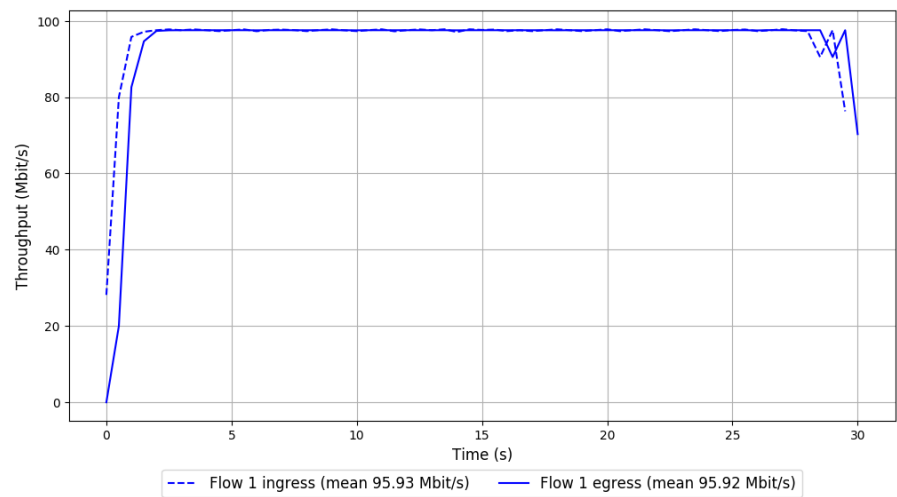
```
Run 1: Statistics of Indigo

Start at: 2018-05-25 01:33:25
End at: 2018-05-25 01:33:55
Local clock offset: 0.627 ms
Remote clock offset: 3.029 ms

# Below is generated by plot.py at 2018-05-25 05:02:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 35.683 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 35.683 ms
Loss rate: 0.22%
```



Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-25 01:54:11

End at: 2018-05-25 01:54:41

Local clock offset: 0.5 ms

Remote clock offset: 3.184 ms

# Below is generated by plot.py at 2018-05-25 05:02:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 34.832 ms

Loss rate: 0.22%

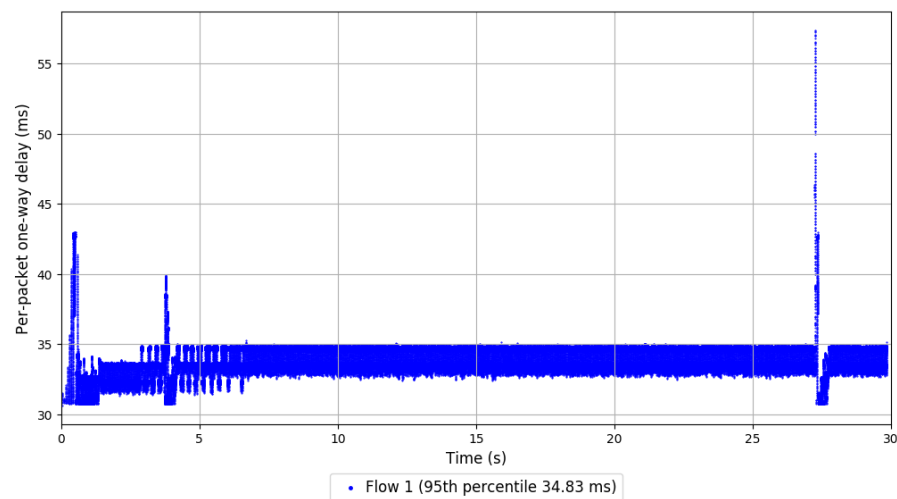
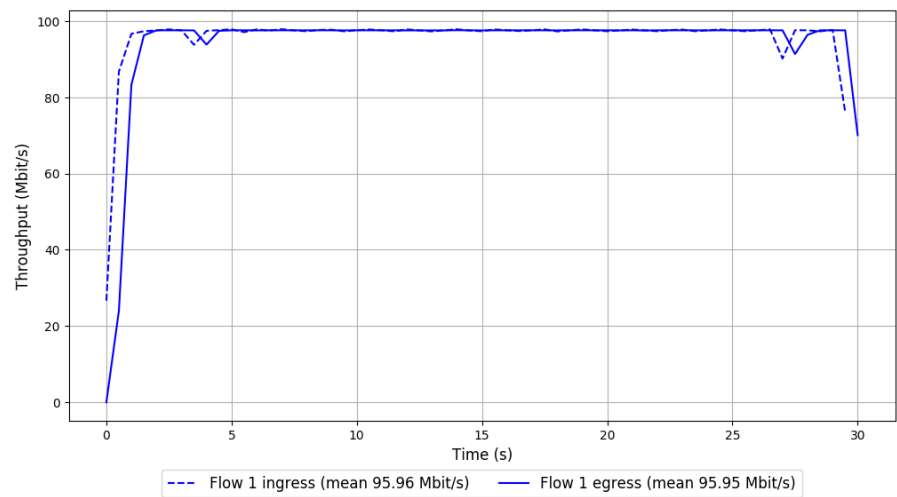
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 34.832 ms

Loss rate: 0.22%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-25 02:14:58

End at: 2018-05-25 02:15:28

Local clock offset: 0.364 ms

Remote clock offset: 1.451 ms

# Below is generated by plot.py at 2018-05-25 05:02:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 36.354 ms

Loss rate: 0.22%

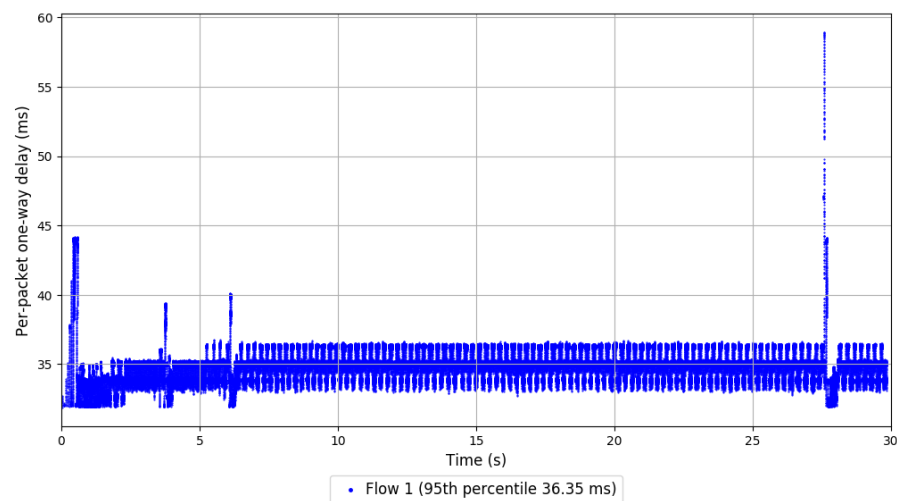
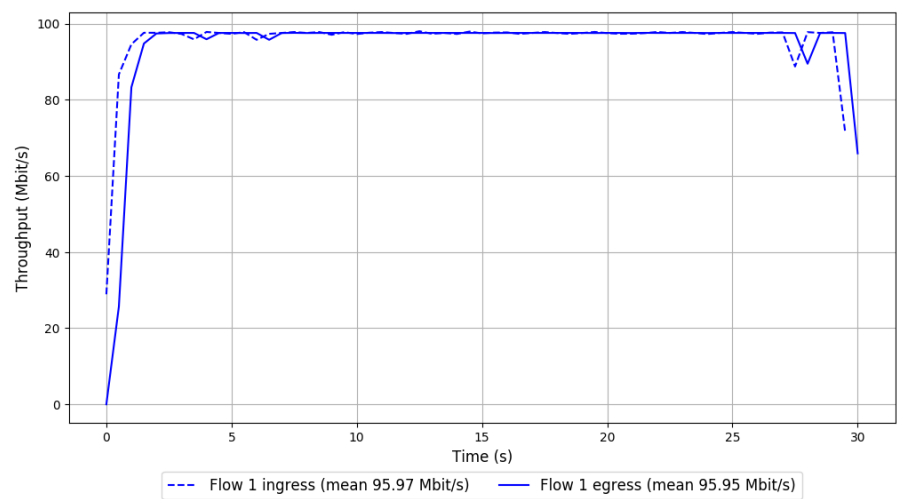
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 36.354 ms

Loss rate: 0.22%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-25 02:35:44

End at: 2018-05-25 02:36:14

Local clock offset: 0.12 ms

Remote clock offset: 3.69 ms

# Below is generated by plot.py at 2018-05-25 05:02:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 33.824 ms

Loss rate: 0.23%

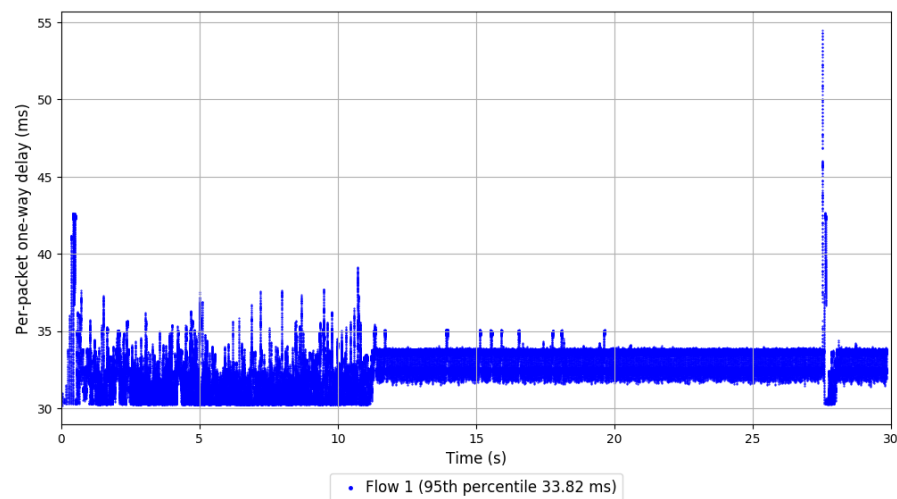
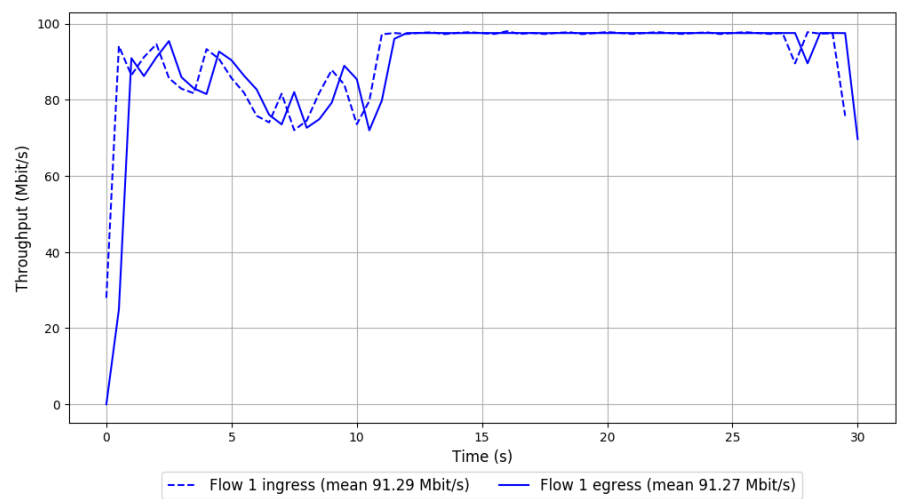
-- Flow 1:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 33.824 ms

Loss rate: 0.23%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-25 02:56:32

End at: 2018-05-25 02:57:02

Local clock offset: 0.13 ms

Remote clock offset: 3.438 ms

# Below is generated by plot.py at 2018-05-25 05:02:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 33.995 ms

Loss rate: 0.22%

-- Flow 1:

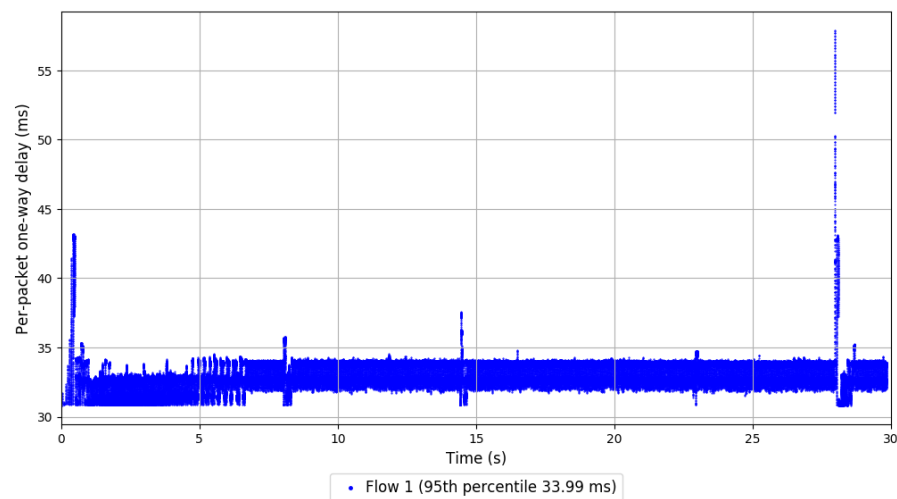
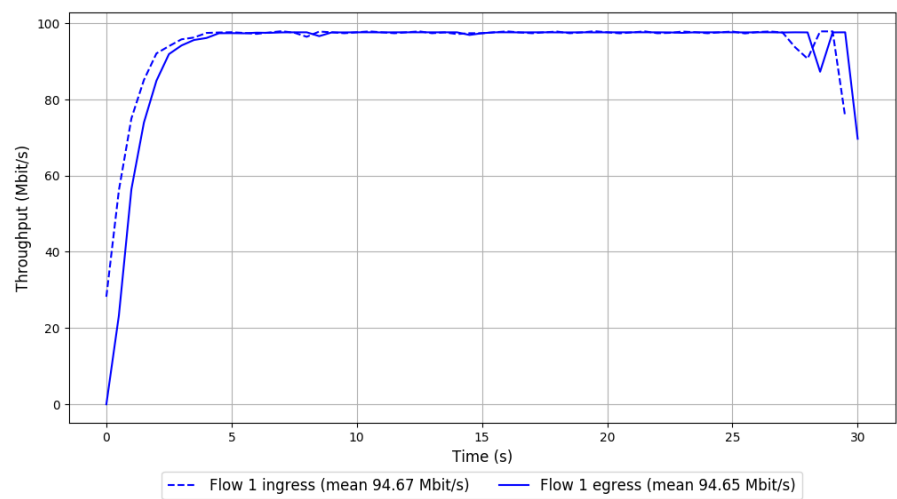
Average throughput: 94.65 Mbit/s

95th percentile per-packet one-way delay: 33.995 ms

Loss rate: 0.22%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-25 03:17:23

End at: 2018-05-25 03:17:53

Local clock offset: 0.149 ms

Remote clock offset: 1.864 ms

# Below is generated by plot.py at 2018-05-25 05:02:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 34.198 ms

Loss rate: 0.20%

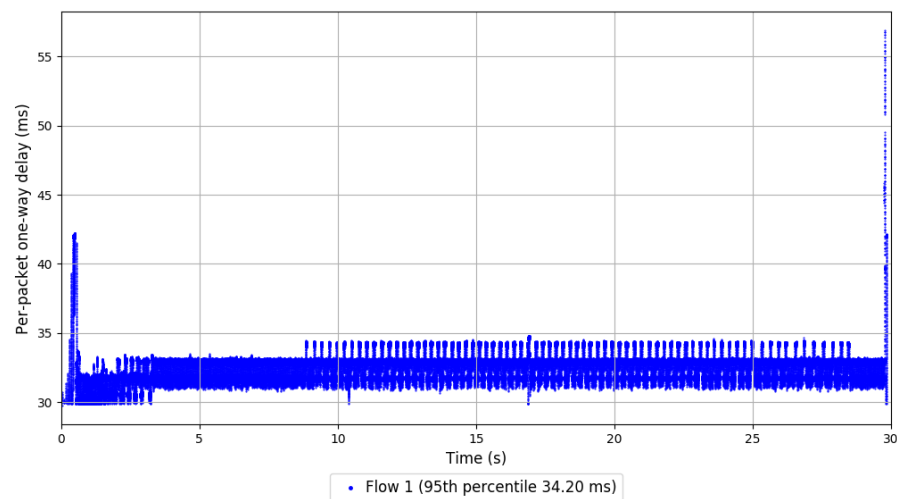
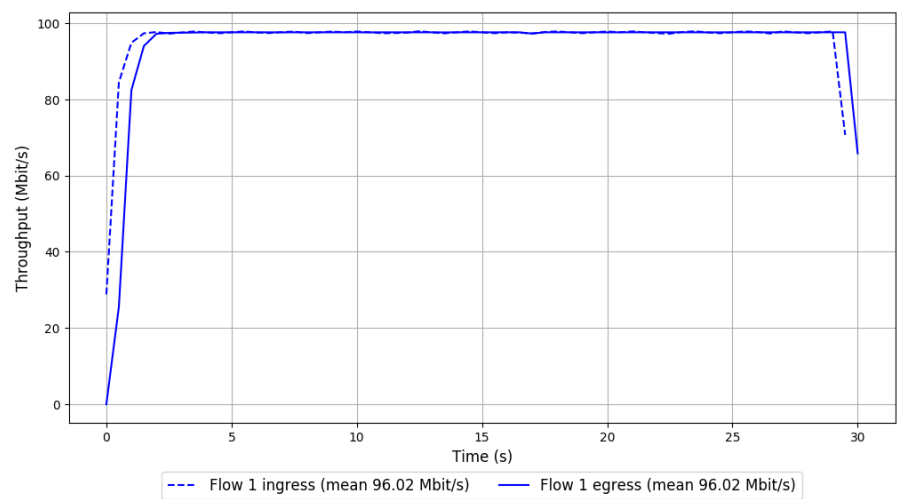
-- Flow 1:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 34.198 ms

Loss rate: 0.20%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-25 03:38:24

End at: 2018-05-25 03:38:54

Local clock offset: 0.073 ms

Remote clock offset: 1.868 ms

# Below is generated by plot.py at 2018-05-25 05:03:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 36.035 ms

Loss rate: 0.22%

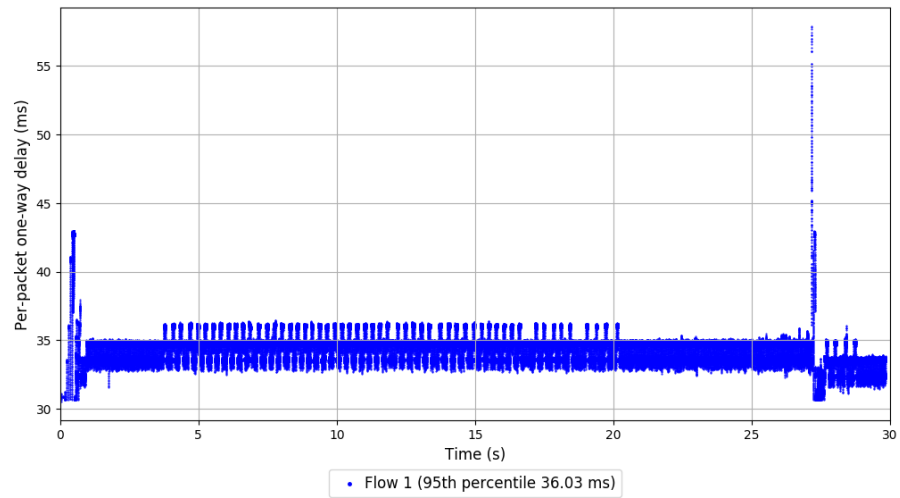
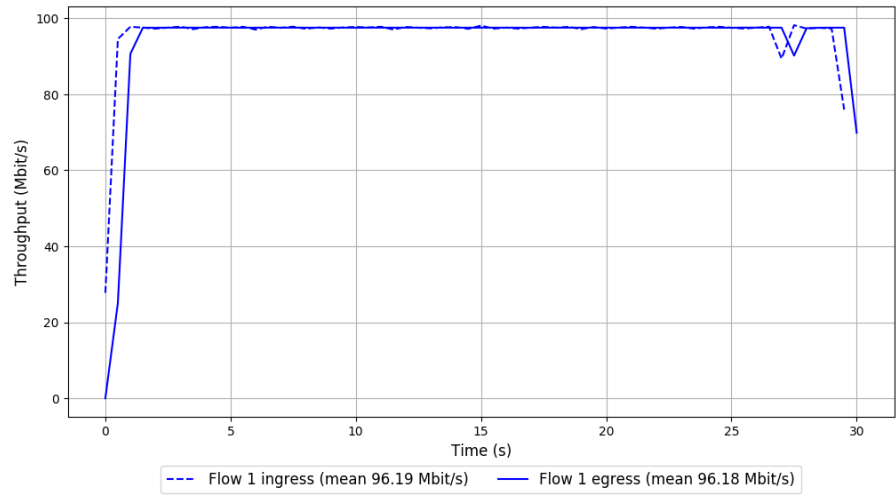
-- Flow 1:

Average throughput: 96.18 Mbit/s

95th percentile per-packet one-way delay: 36.035 ms

Loss rate: 0.22%

## Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-25 03:59:07

End at: 2018-05-25 03:59:37

Local clock offset: 0.235 ms

Remote clock offset: 2.081 ms

# Below is generated by plot.py at 2018-05-25 05:03:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 36.090 ms

Loss rate: 0.22%

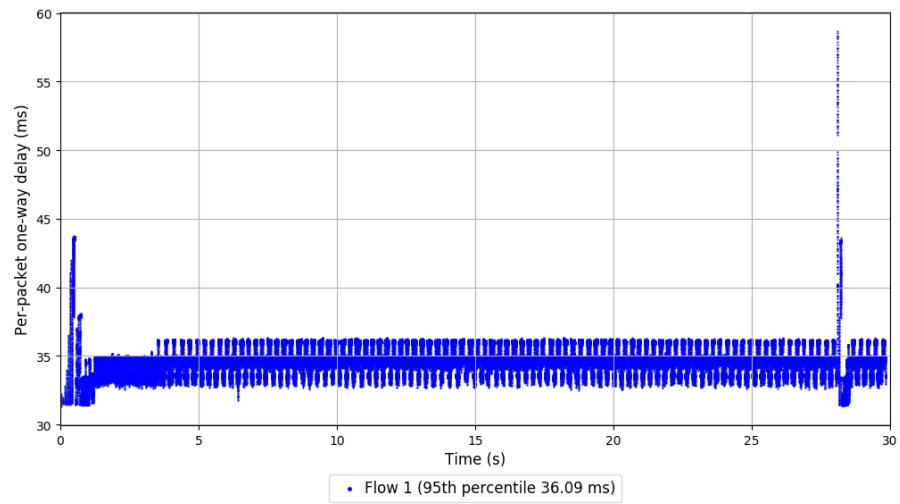
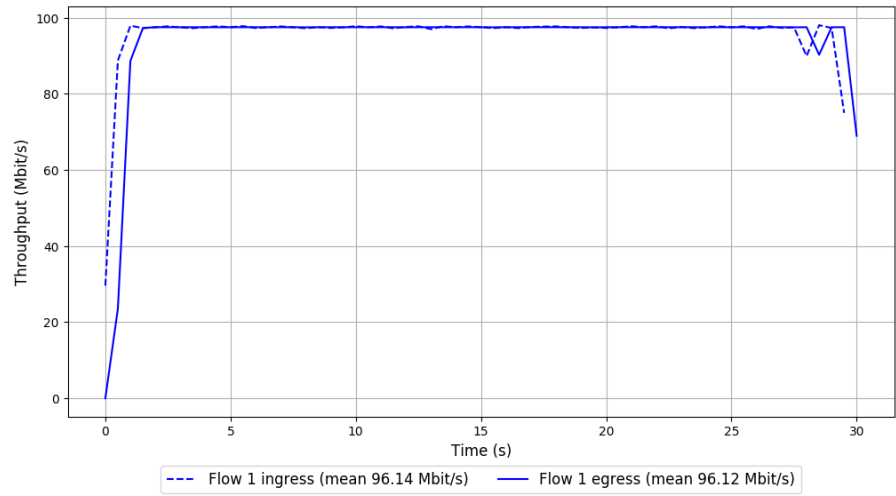
-- Flow 1:

Average throughput: 96.12 Mbit/s

95th percentile per-packet one-way delay: 36.090 ms

Loss rate: 0.22%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-25 04:20:08

End at: 2018-05-25 04:20:38

Local clock offset: 0.678 ms

Remote clock offset: 2.464 ms

# Below is generated by plot.py at 2018-05-25 05:03:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 34.190 ms

Loss rate: 0.22%

-- Flow 1:

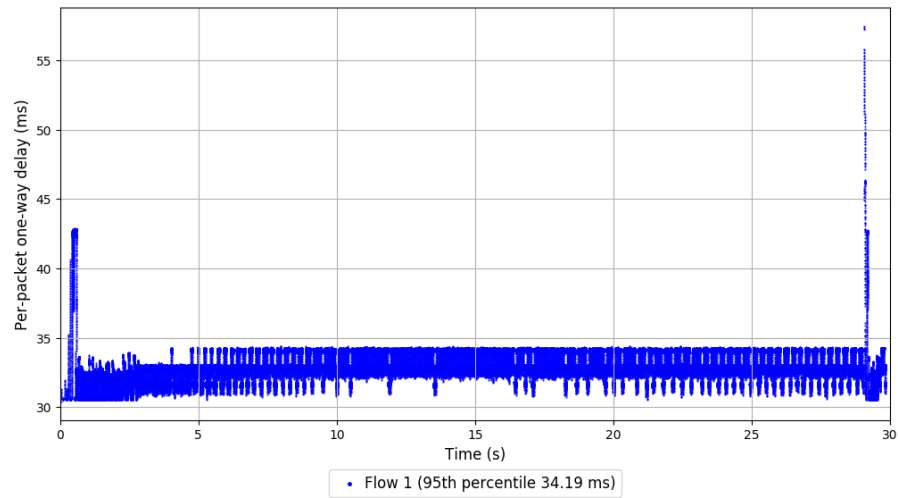
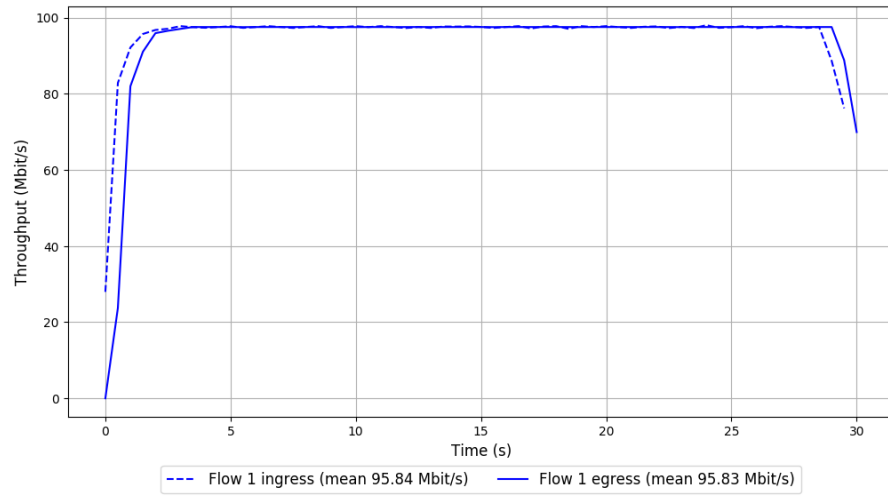
Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 34.190 ms

Loss rate: 0.22%



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

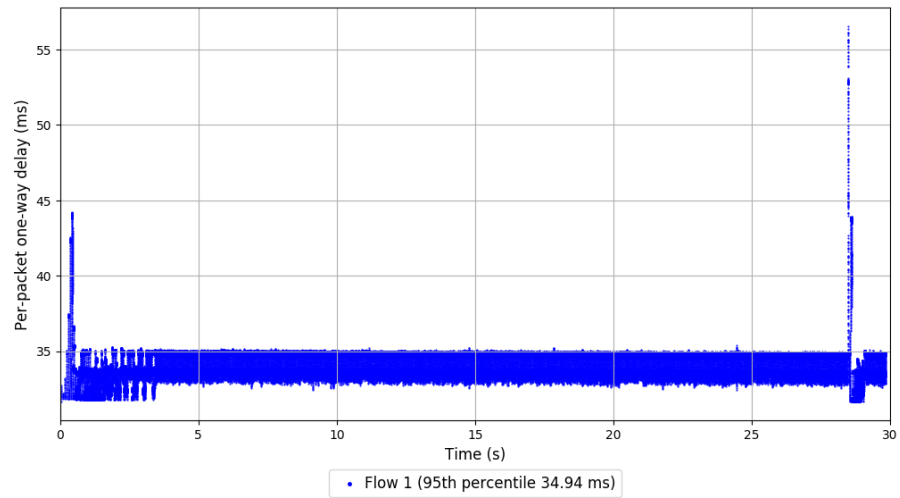
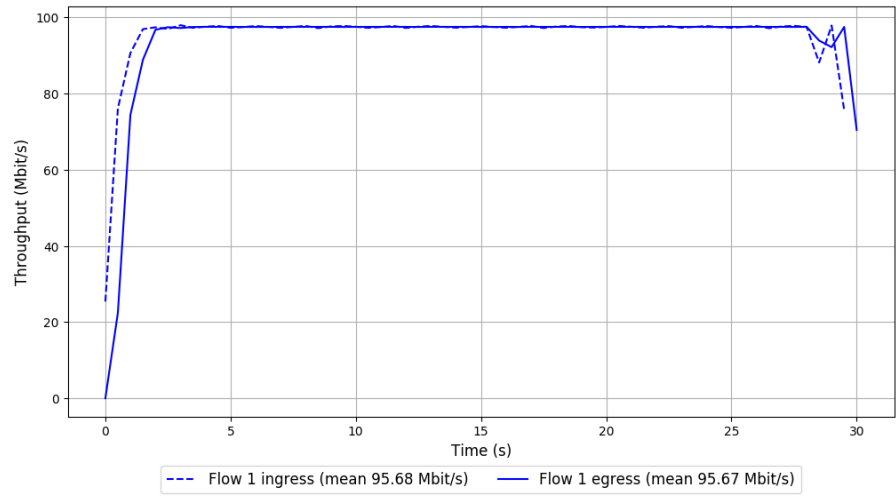


Run 10: Statistics of Indigo

Start at: 2018-05-25 04:40:58  
End at: 2018-05-25 04:41:28  
Local clock offset: -0.089 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2018-05-25 05:03:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.67 Mbit/s  
95th percentile per-packet one-way delay: 34.937 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 95.67 Mbit/s  
95th percentile per-packet one-way delay: 34.937 ms  
Loss rate: 0.21%

# Run 10: Report of Indigo — Data Link

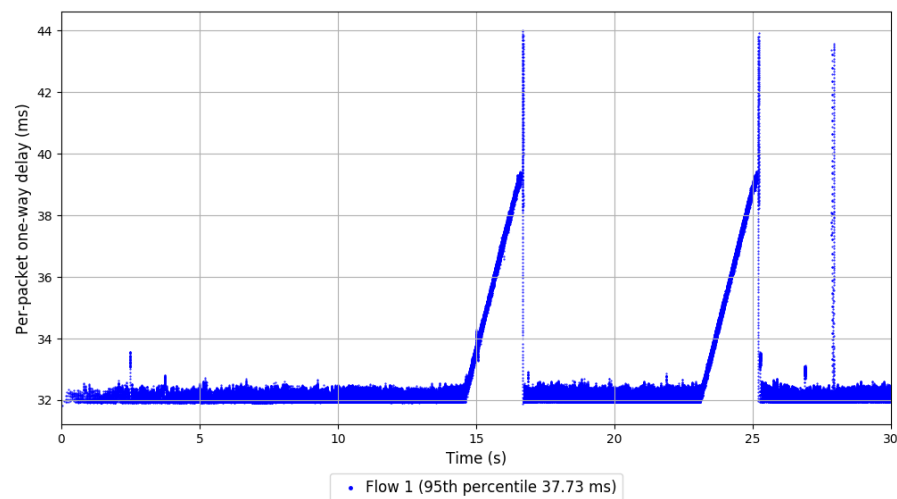
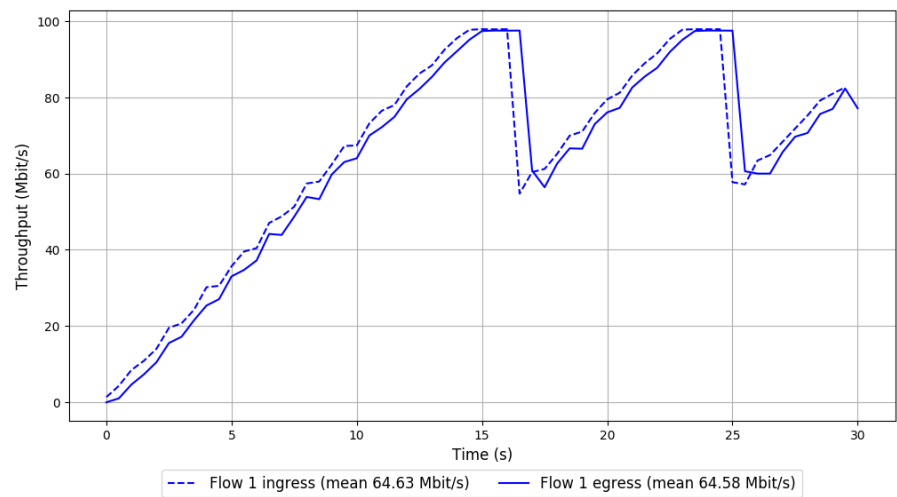


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 01:25:41
End at: 2018-05-25 01:26:11
Local clock offset: 0.962 ms
Remote clock offset: 0.898 ms

# Below is generated by plot.py at 2018-05-25 05:03:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.58 Mbit/s
95th percentile per-packet one-way delay: 37.727 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 64.58 Mbit/s
95th percentile per-packet one-way delay: 37.727 ms
Loss rate: 0.27%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-25 01:46:25

End at: 2018-05-25 01:46:55

Local clock offset: 0.513 ms

Remote clock offset: 3.226 ms

# Below is generated by plot.py at 2018-05-25 05:03:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.27 Mbit/s

95th percentile per-packet one-way delay: 31.834 ms

Loss rate: 0.29%

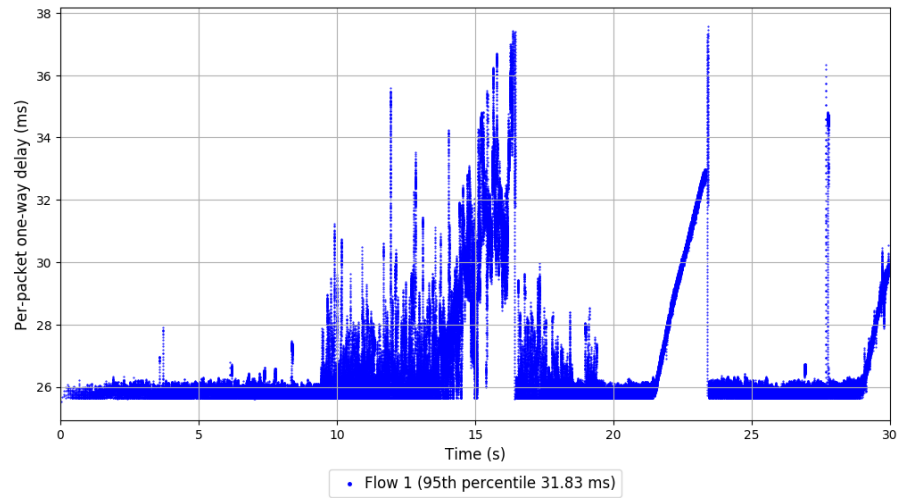
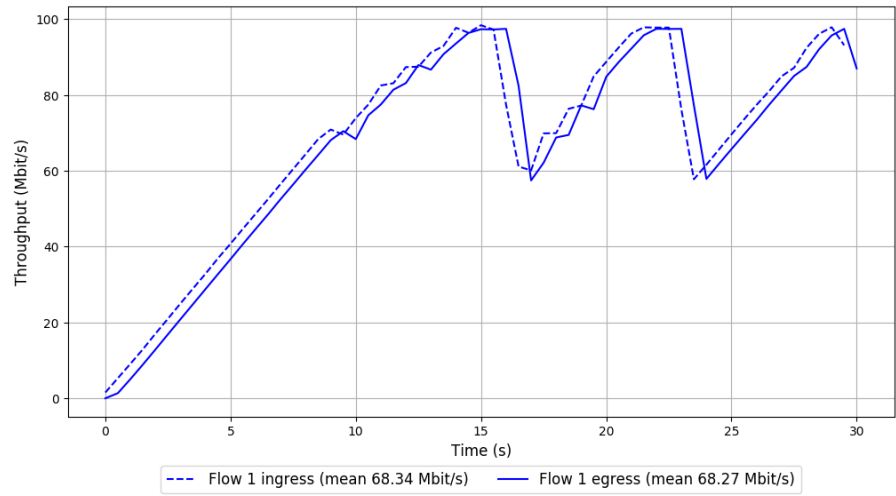
-- Flow 1:

Average throughput: 68.27 Mbit/s

95th percentile per-packet one-way delay: 31.834 ms

Loss rate: 0.29%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-25 02:07:11

End at: 2018-05-25 02:07:41

Local clock offset: 0.37 ms

Remote clock offset: 1.268 ms

# Below is generated by plot.py at 2018-05-25 05:03:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 39.762 ms

Loss rate: 0.24%

-- Flow 1:

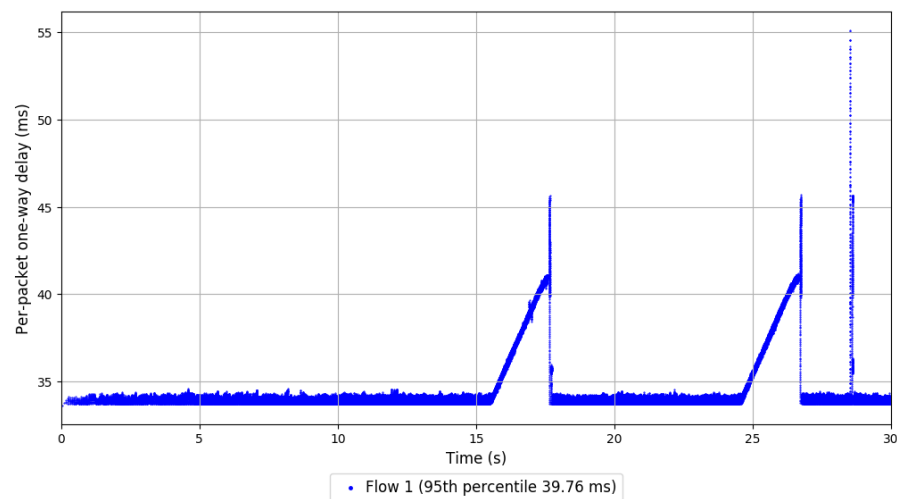
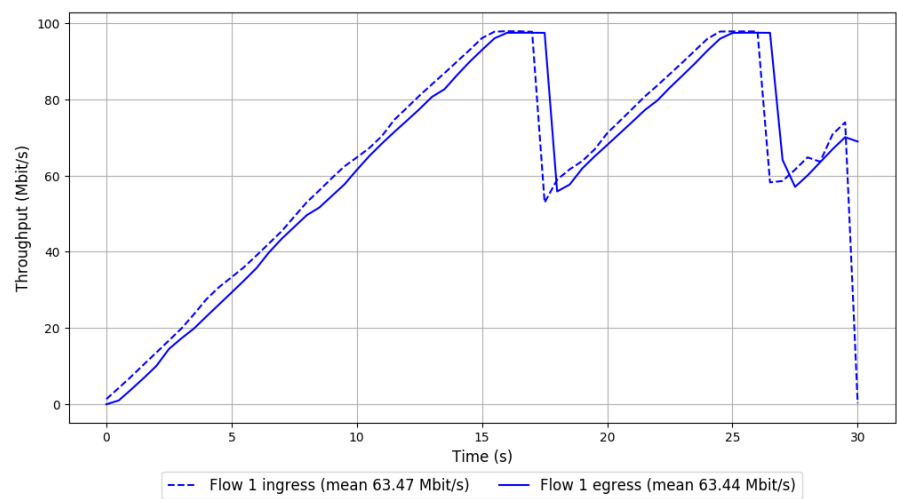
Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 39.762 ms

Loss rate: 0.24%



Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-25 02:27:58

End at: 2018-05-25 02:28:28

Local clock offset: 0.334 ms

Remote clock offset: 3.354 ms

# Below is generated by plot.py at 2018-05-25 05:03:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.32 Mbit/s

95th percentile per-packet one-way delay: 37.544 ms

Loss rate: 0.24%

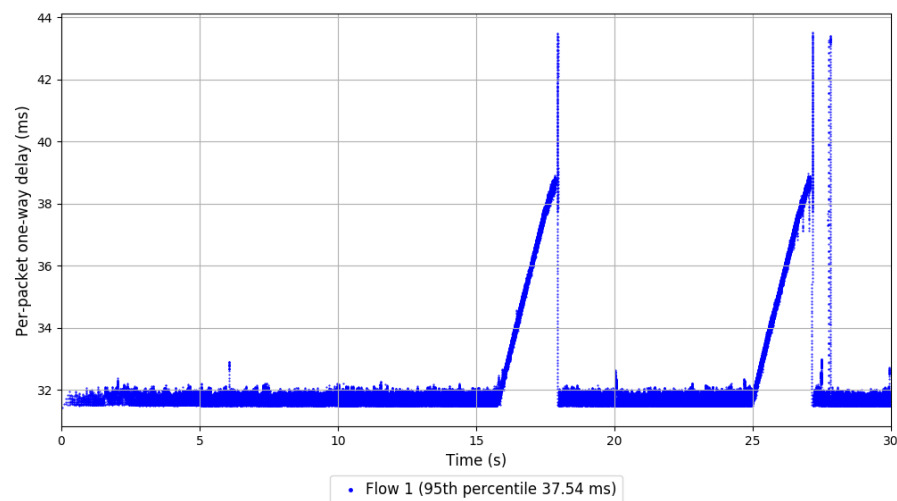
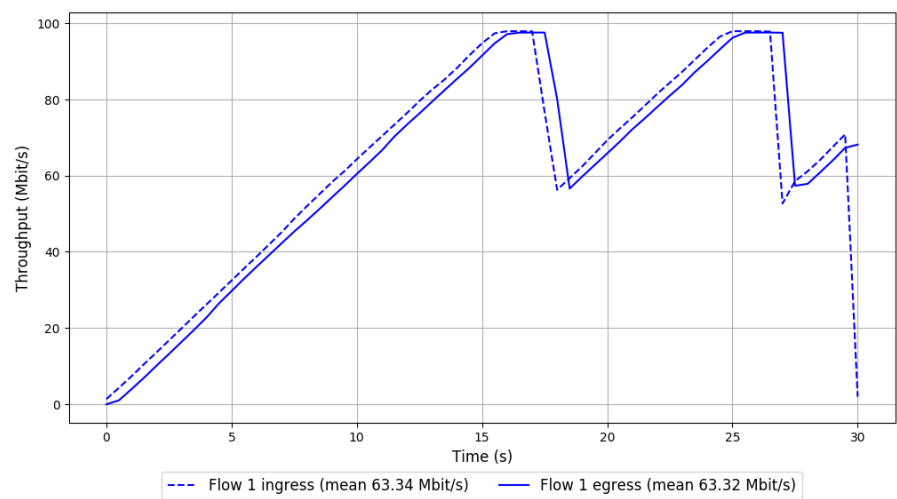
-- Flow 1:

Average throughput: 63.32 Mbit/s

95th percentile per-packet one-way delay: 37.544 ms

Loss rate: 0.24%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-05-25 02:48:45

End at: 2018-05-25 02:49:15

Local clock offset: 0.137 ms

Remote clock offset: 3.253 ms

# Below is generated by plot.py at 2018-05-25 05:03:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.17 Mbit/s

95th percentile per-packet one-way delay: 36.567 ms

Loss rate: 0.26%

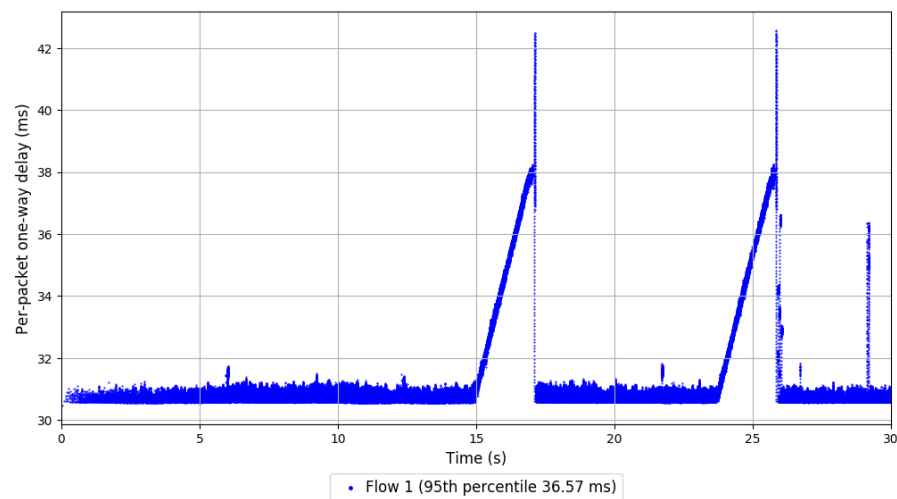
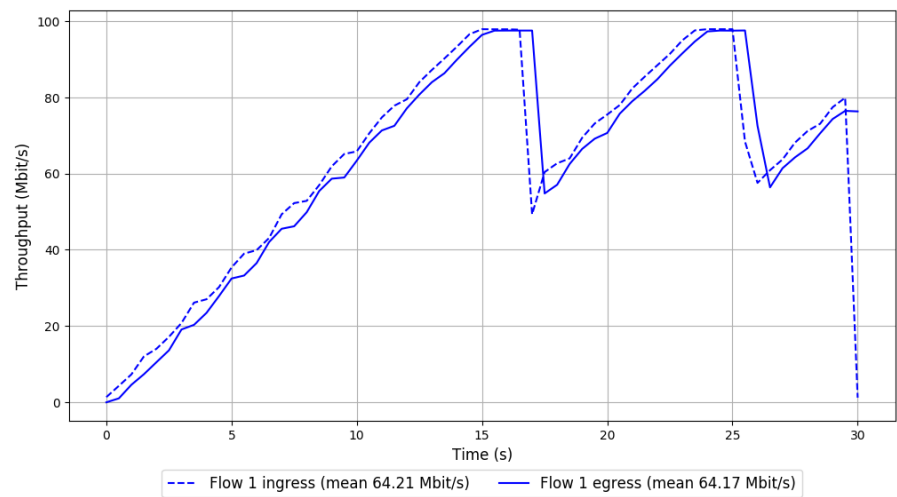
-- Flow 1:

Average throughput: 64.17 Mbit/s

95th percentile per-packet one-way delay: 36.567 ms

Loss rate: 0.26%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 03:09:35

End at: 2018-05-25 03:10:05

Local clock offset: 0.147 ms

Remote clock offset: 2.167 ms

# Below is generated by plot.py at 2018-05-25 05:03:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.56 Mbit/s

95th percentile per-packet one-way delay: 36.926 ms

Loss rate: 0.25%

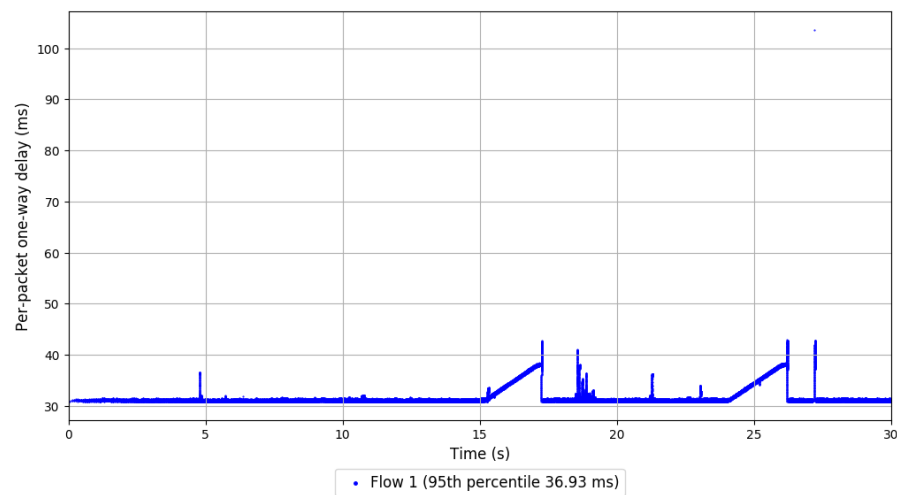
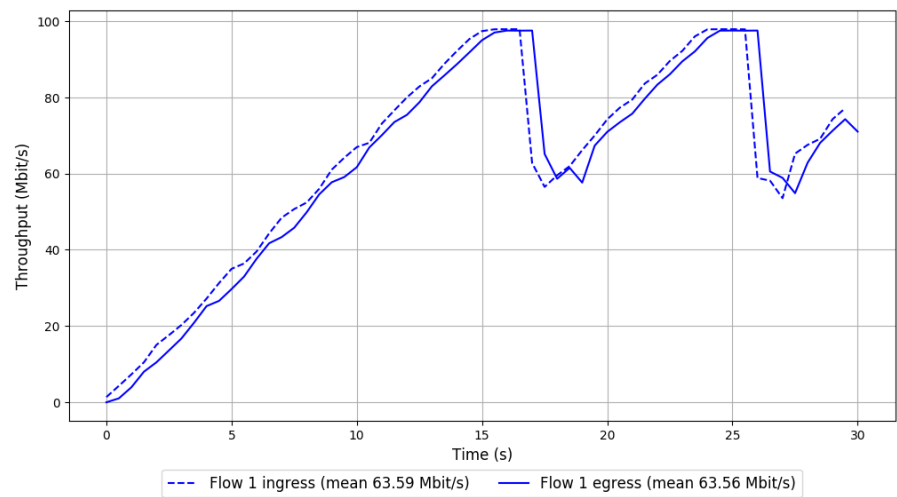
-- Flow 1:

Average throughput: 63.56 Mbit/s

95th percentile per-packet one-way delay: 36.926 ms

Loss rate: 0.25%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-25 03:30:40

End at: 2018-05-25 03:31:10

Local clock offset: 0.141 ms

Remote clock offset: 1.99 ms

# Below is generated by plot.py at 2018-05-25 05:03:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.46 Mbit/s

95th percentile per-packet one-way delay: 37.927 ms

Loss rate: 0.22%

-- Flow 1:

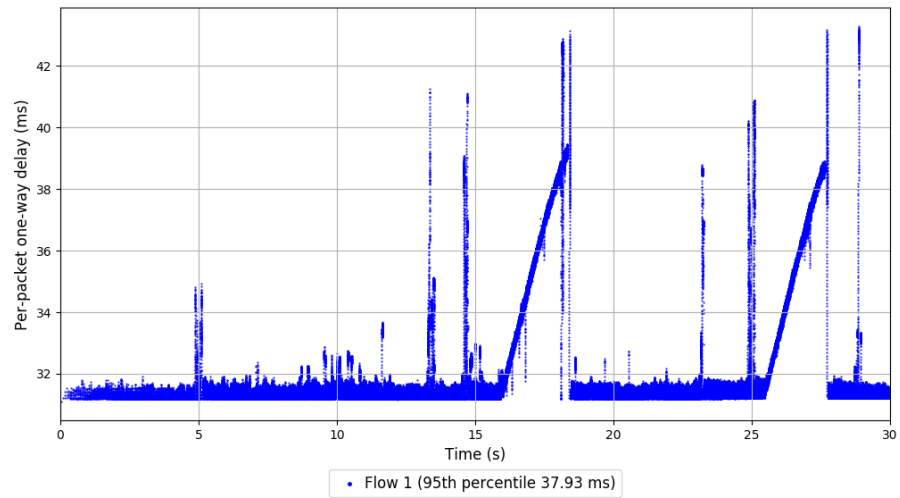
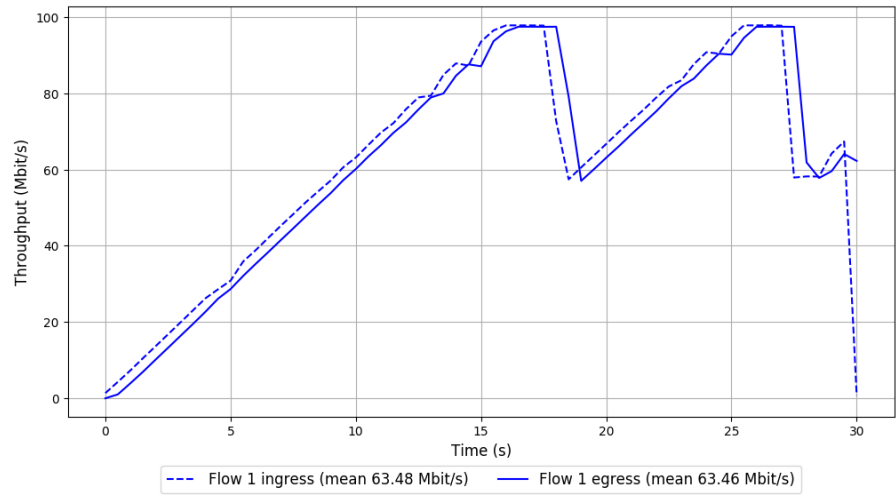
Average throughput: 63.46 Mbit/s

95th percentile per-packet one-way delay: 37.927 ms

Loss rate: 0.22%



## Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-25 03:51:22

End at: 2018-05-25 03:51:52

Local clock offset: 0.031 ms

Remote clock offset: 2.577 ms

# Below is generated by plot.py at 2018-05-25 05:03:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 35.957 ms

Loss rate: 0.25%

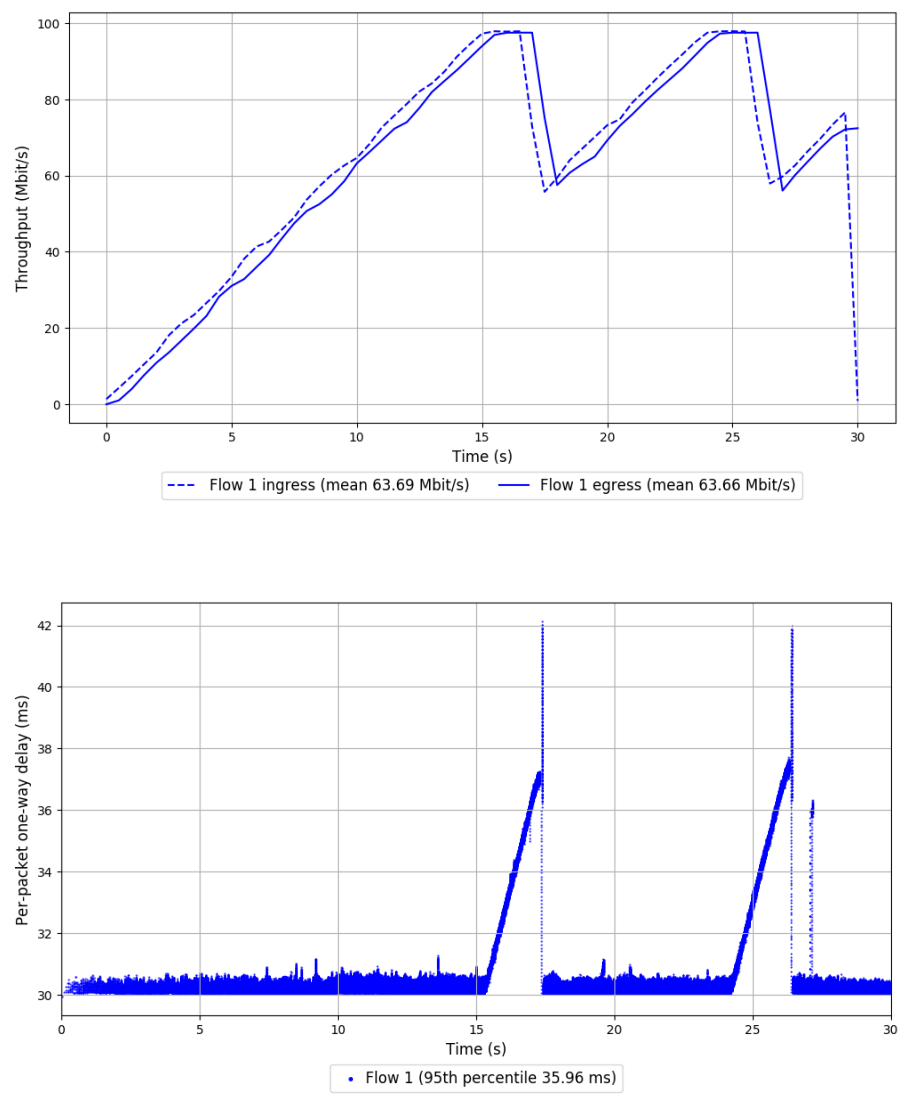
-- Flow 1:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 35.957 ms

Loss rate: 0.25%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-25 04:12:22

End at: 2018-05-25 04:12:52

Local clock offset: 0.503 ms

Remote clock offset: 0.283 ms

# Below is generated by plot.py at 2018-05-25 05:03:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 39.301 ms

Loss rate: 0.25%

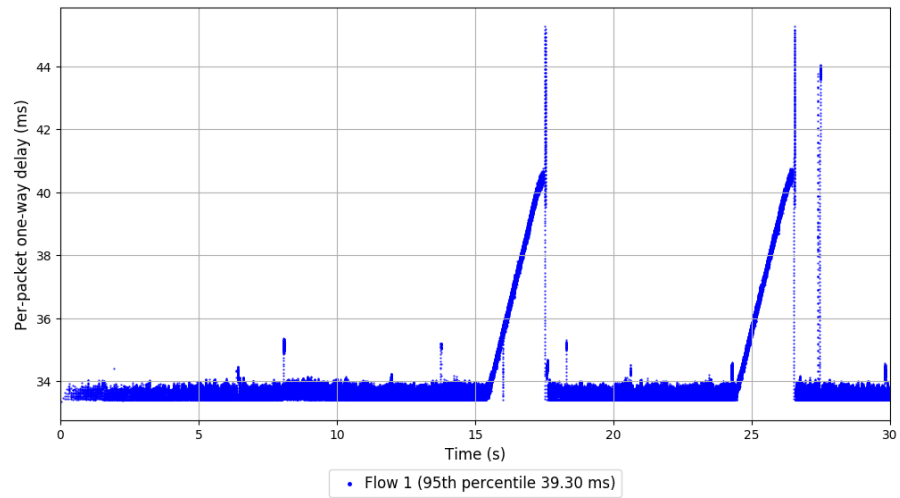
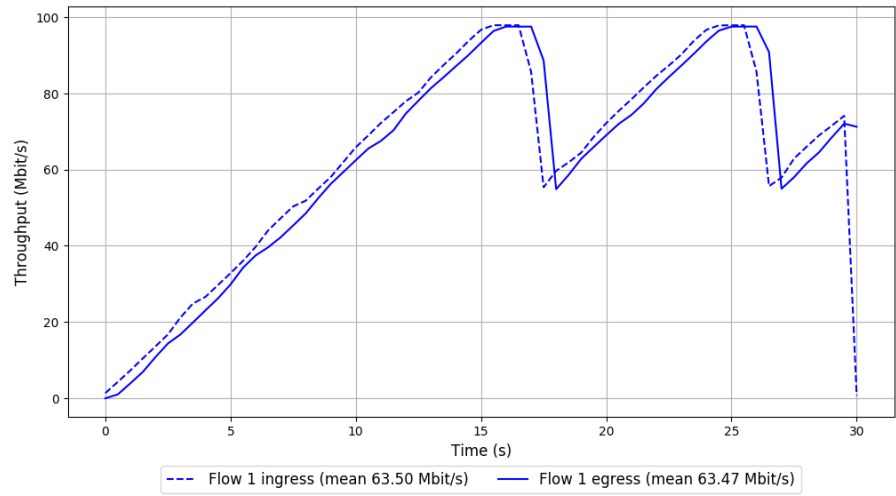
-- Flow 1:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 39.301 ms

Loss rate: 0.25%

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



Run 10: Statistics of LEDBAT

Start at: 2018-05-25 04:33:12

End at: 2018-05-25 04:33:42

Local clock offset: 0.241 ms

Remote clock offset: 2.916 ms

# Below is generated by plot.py at 2018-05-25 05:03:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.97 Mbit/s

95th percentile per-packet one-way delay: 36.249 ms

Loss rate: 0.26%

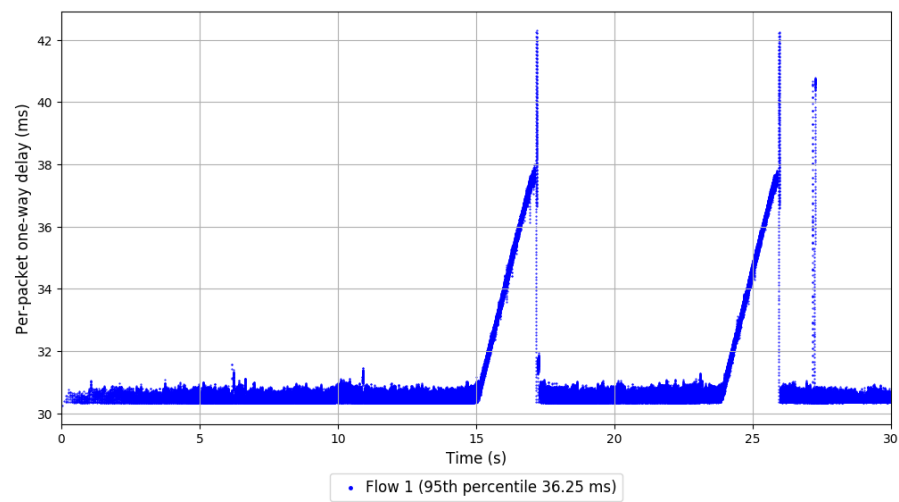
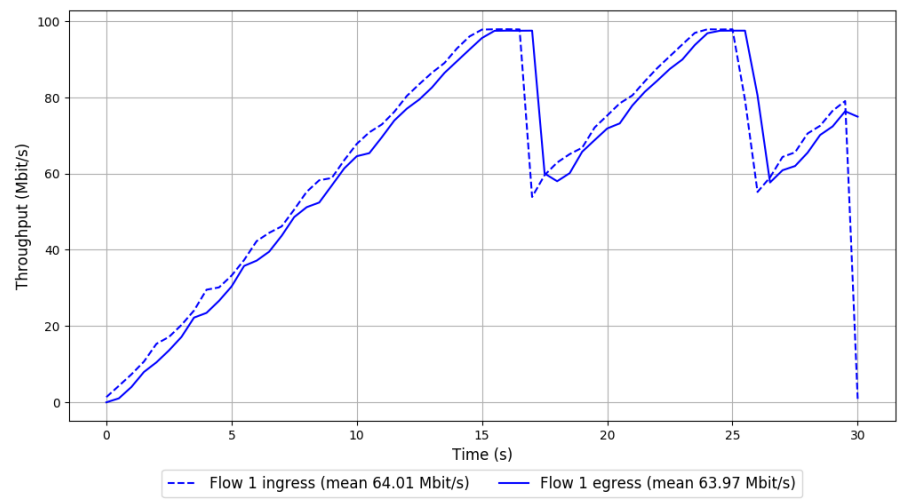
-- Flow 1:

Average throughput: 63.97 Mbit/s

95th percentile per-packet one-way delay: 36.249 ms

Loss rate: 0.26%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 01:37:23

End at: 2018-05-25 01:37:53

Local clock offset: 0.454 ms

Remote clock offset: 2.976 ms

# Below is generated by plot.py at 2018-05-25 05:04:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 32.183 ms

Loss rate: 0.20%

-- Flow 1:

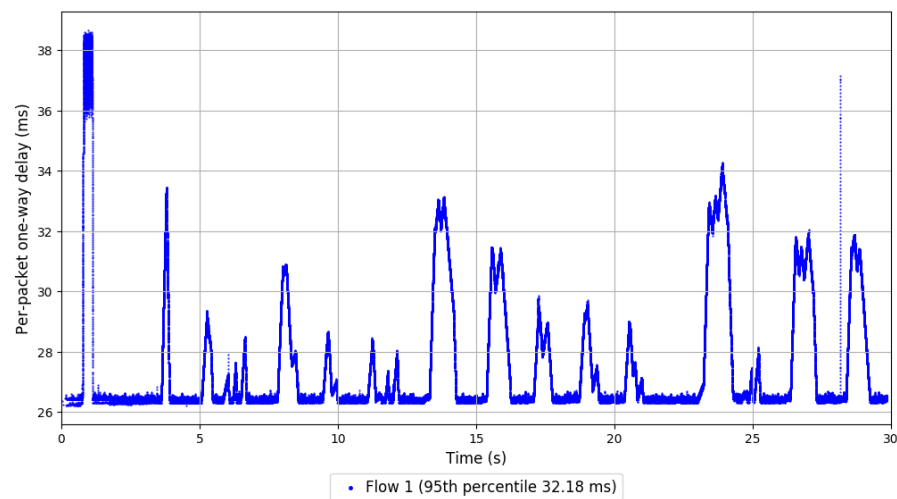
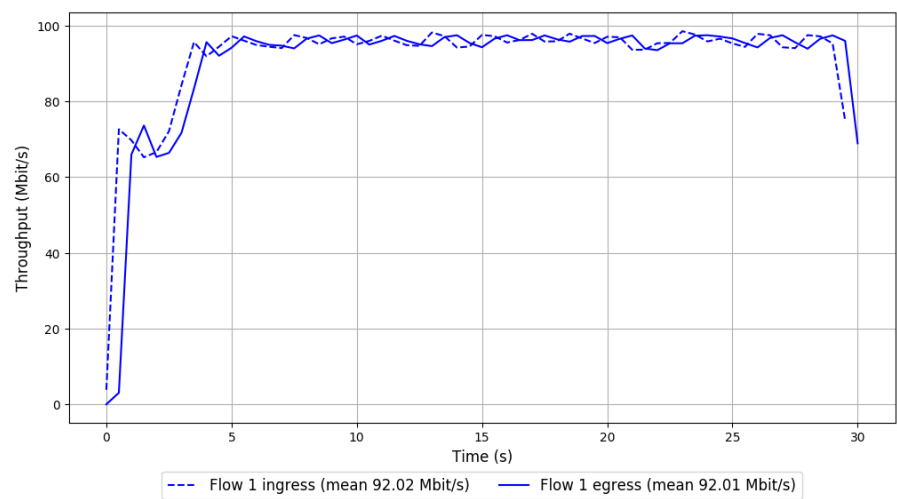
Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 32.183 ms

Loss rate: 0.20%



Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 01:58:09

End at: 2018-05-25 01:58:39

Local clock offset: 0.365 ms

Remote clock offset: 3.177 ms

# Below is generated by plot.py at 2018-05-25 05:04:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 34.393 ms

Loss rate: 0.22%

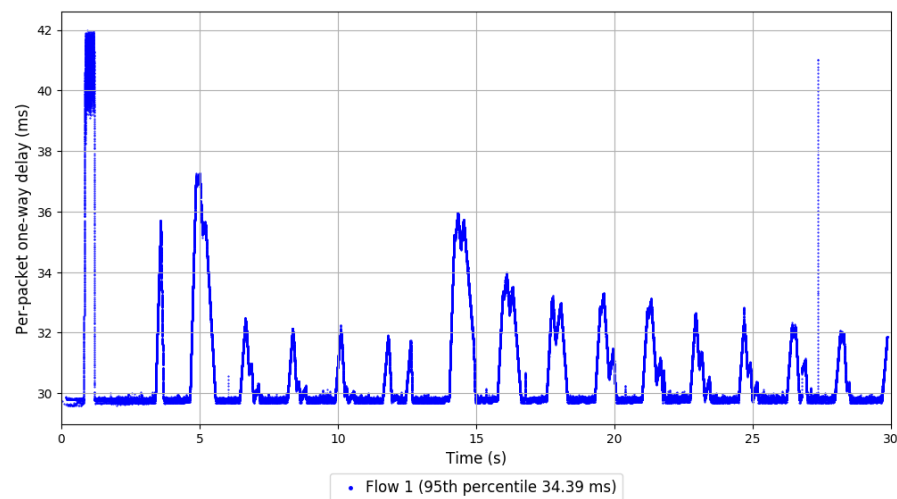
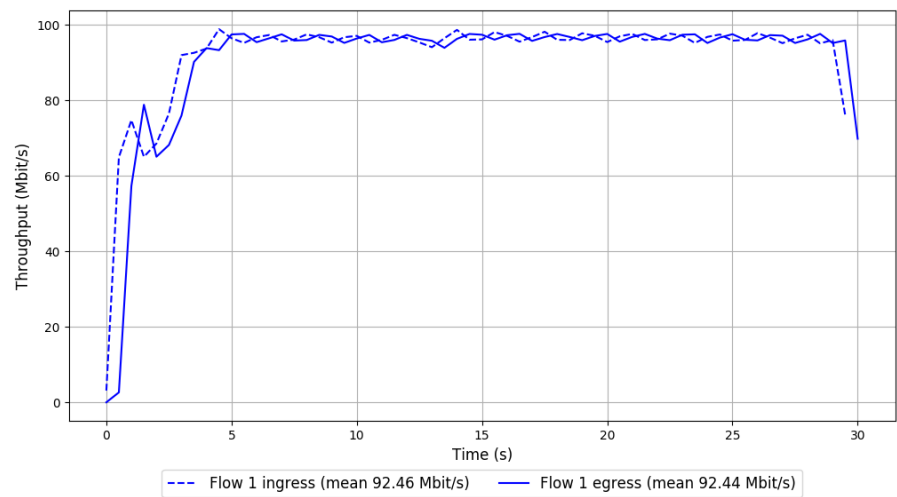
-- Flow 1:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 34.393 ms

Loss rate: 0.22%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 02:18:56

End at: 2018-05-25 02:19:26

Local clock offset: 0.277 ms

Remote clock offset: 4.006 ms

# Below is generated by plot.py at 2018-05-25 05:04:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 34.293 ms

Loss rate: 0.21%

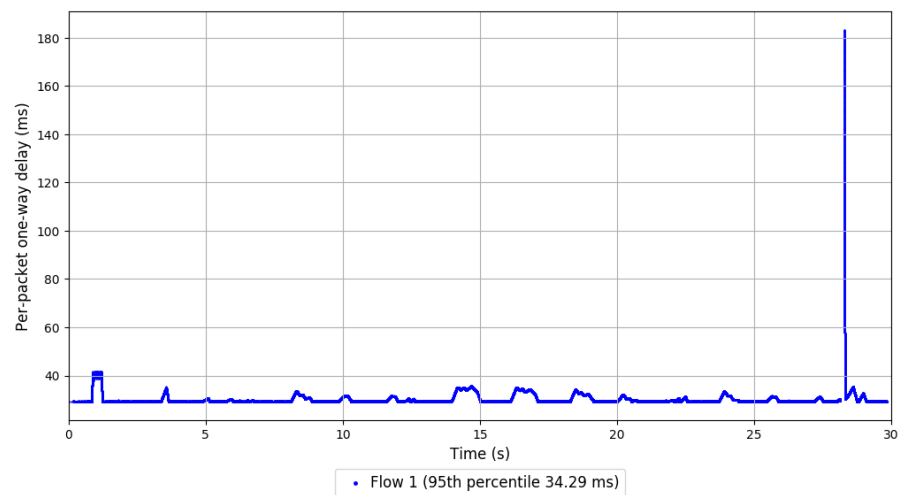
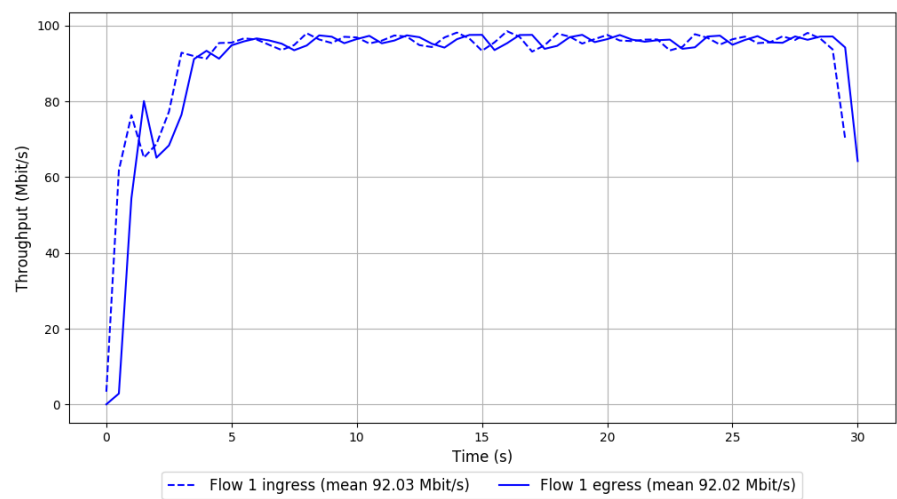
-- Flow 1:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 34.293 ms

Loss rate: 0.21%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 02:39:42

End at: 2018-05-25 02:40:12

Local clock offset: 0.183 ms

Remote clock offset: 3.688 ms

# Below is generated by plot.py at 2018-05-25 05:04:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.86 Mbit/s

95th percentile per-packet one-way delay: 34.654 ms

Loss rate: 0.21%

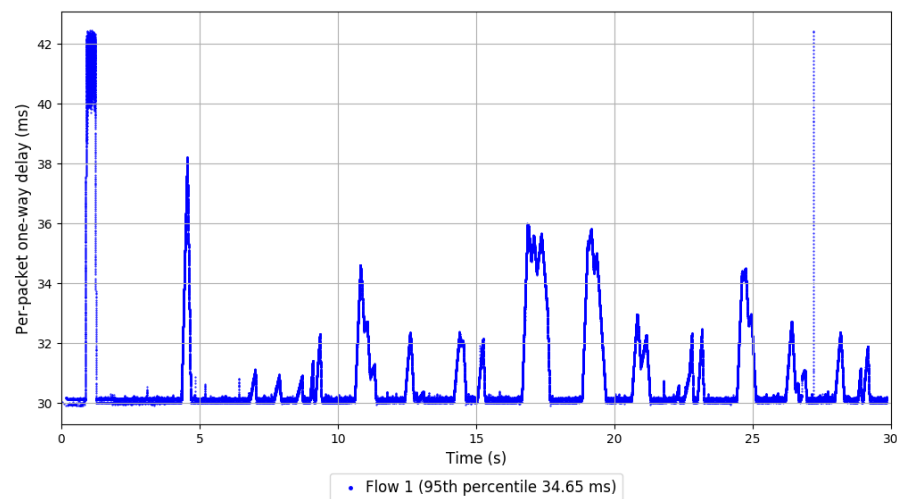
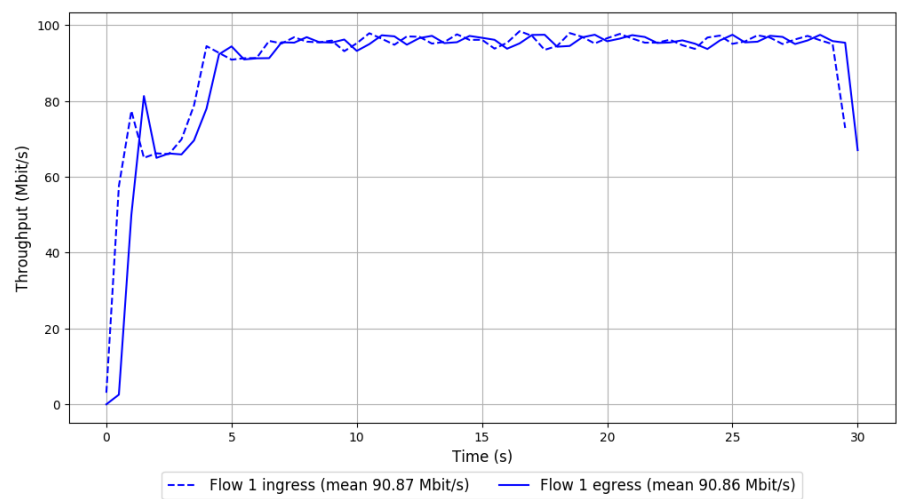
-- Flow 1:

Average throughput: 90.86 Mbit/s

95th percentile per-packet one-way delay: 34.654 ms

Loss rate: 0.21%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 03:00:31

End at: 2018-05-25 03:01:01

Local clock offset: 0.178 ms

Remote clock offset: 2.875 ms

# Below is generated by plot.py at 2018-05-25 05:04:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 35.251 ms

Loss rate: 0.23%

-- Flow 1:

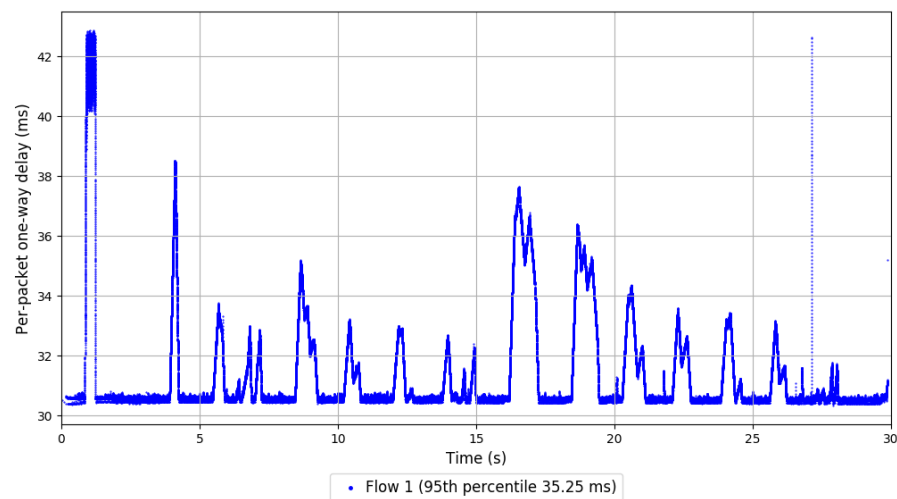
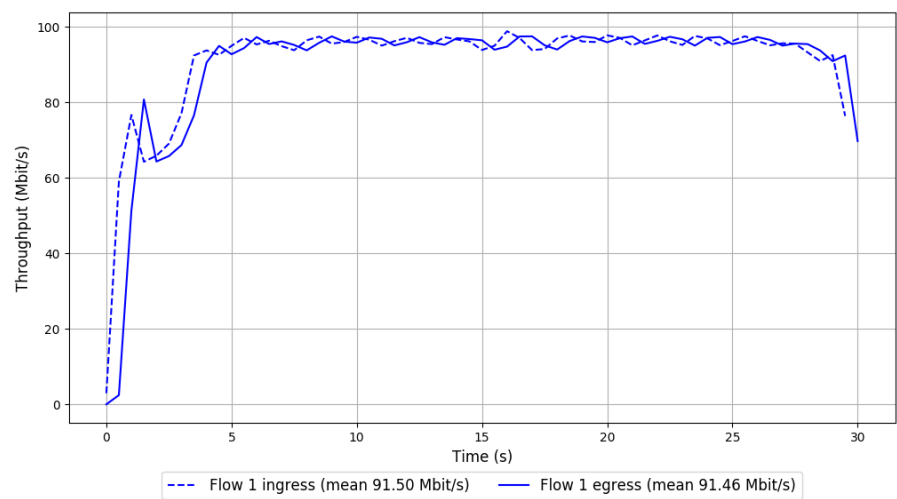
Average throughput: 91.46 Mbit/s

95th percentile per-packet one-way delay: 35.251 ms

Loss rate: 0.23%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 03:21:22

End at: 2018-05-25 03:21:52

Local clock offset: 0.158 ms

Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2018-05-25 05:04:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.27 Mbit/s

95th percentile per-packet one-way delay: 41.442 ms

Loss rate: 0.23%

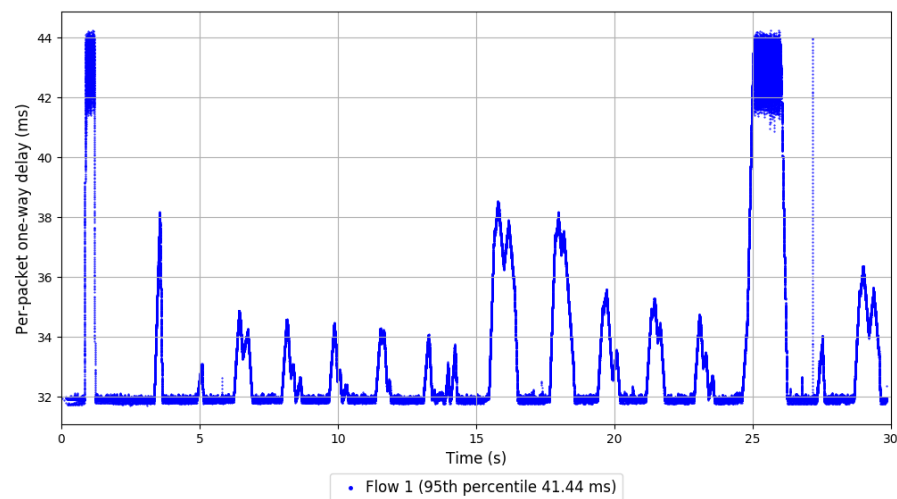
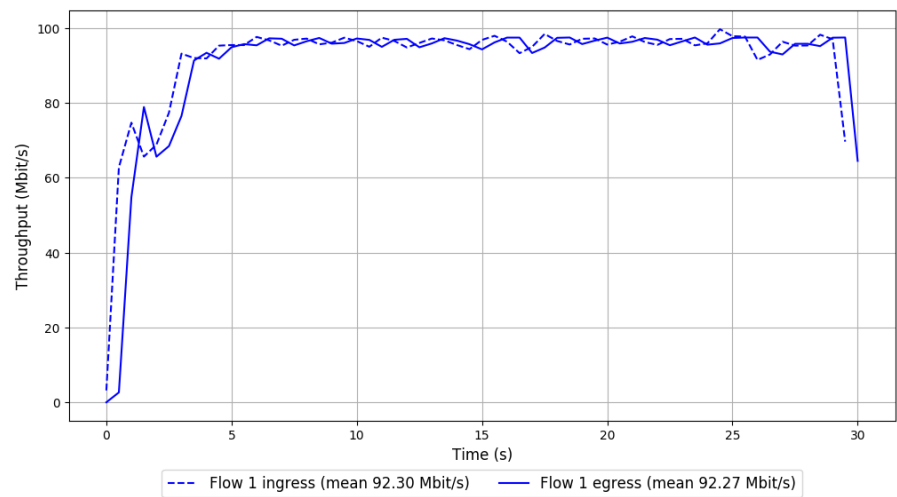
-- Flow 1:

Average throughput: 92.27 Mbit/s

95th percentile per-packet one-way delay: 41.442 ms

Loss rate: 0.23%

Run 6: Report of PCC-Allegro — Data Link

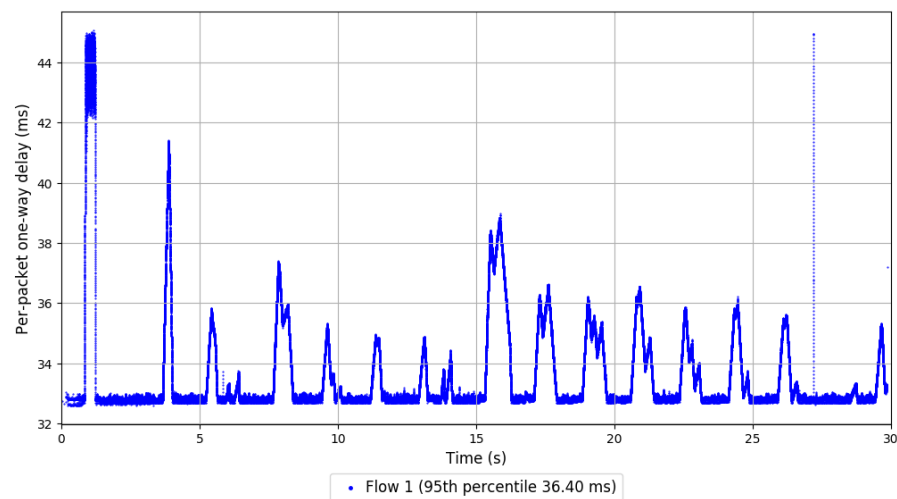
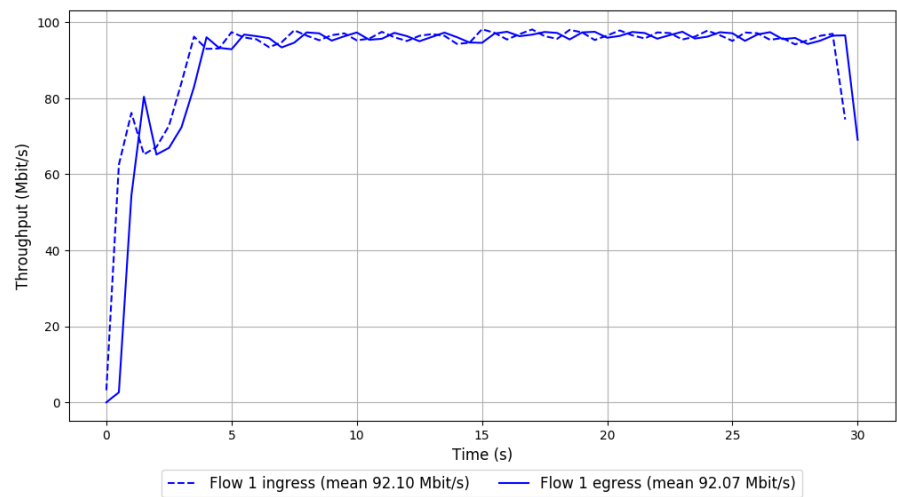


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 03:42:21  
End at: 2018-05-25 03:42:51  
Local clock offset: -0.022 ms  
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-05-25 05:04:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.07 Mbit/s  
95th percentile per-packet one-way delay: 36.399 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 92.07 Mbit/s  
95th percentile per-packet one-way delay: 36.399 ms  
Loss rate: 0.22%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 04:03:19

End at: 2018-05-25 04:03:49

Local clock offset: 0.397 ms

Remote clock offset: 2.051 ms

# Below is generated by plot.py at 2018-05-25 05:04:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 34.091 ms

Loss rate: 0.21%

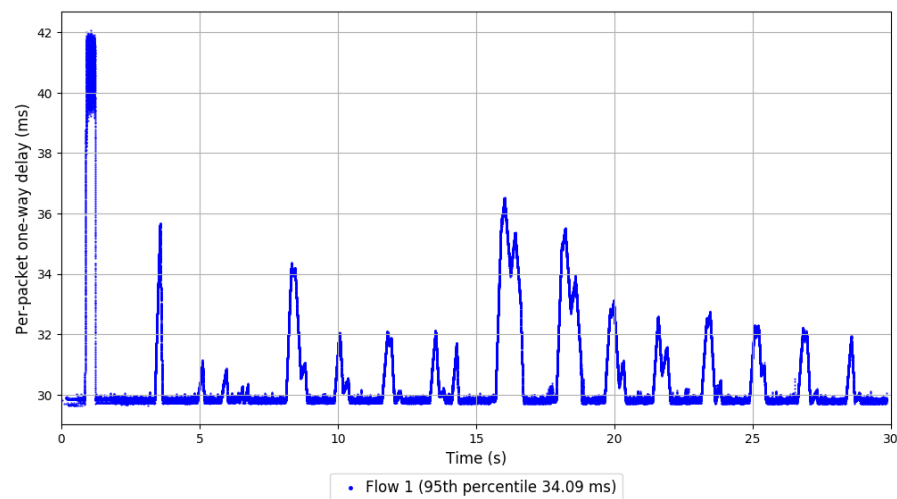
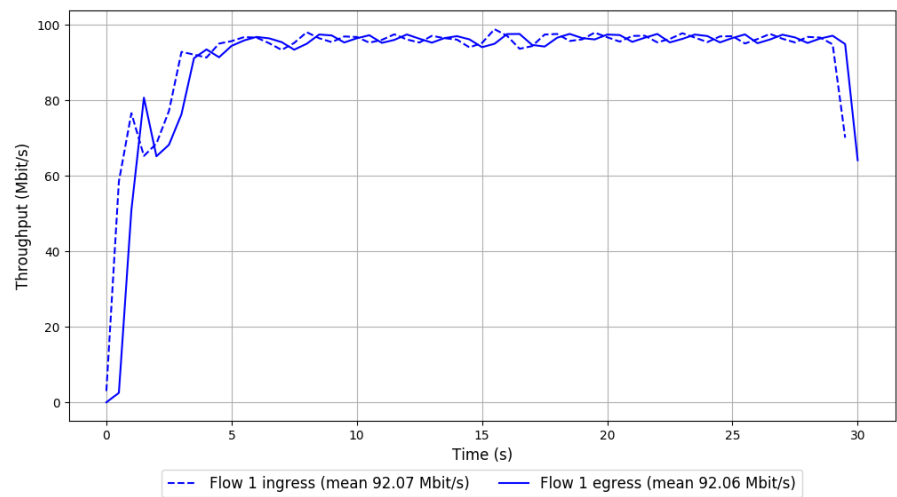
-- Flow 1:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 34.091 ms

Loss rate: 0.21%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 04:24:08

End at: 2018-05-25 04:24:38

Local clock offset: 0.632 ms

Remote clock offset: 2.96 ms

# Below is generated by plot.py at 2018-05-25 05:05:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.97 Mbit/s

95th percentile per-packet one-way delay: 30.648 ms

Loss rate: 0.22%

-- Flow 1:

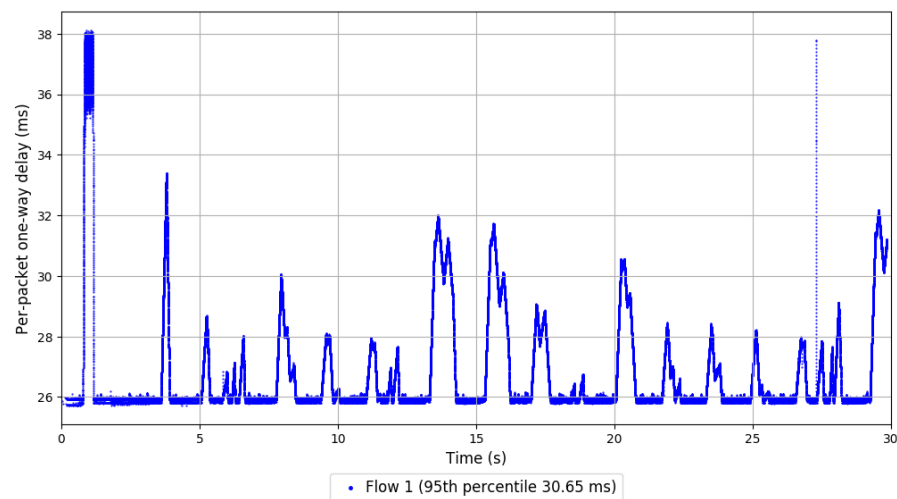
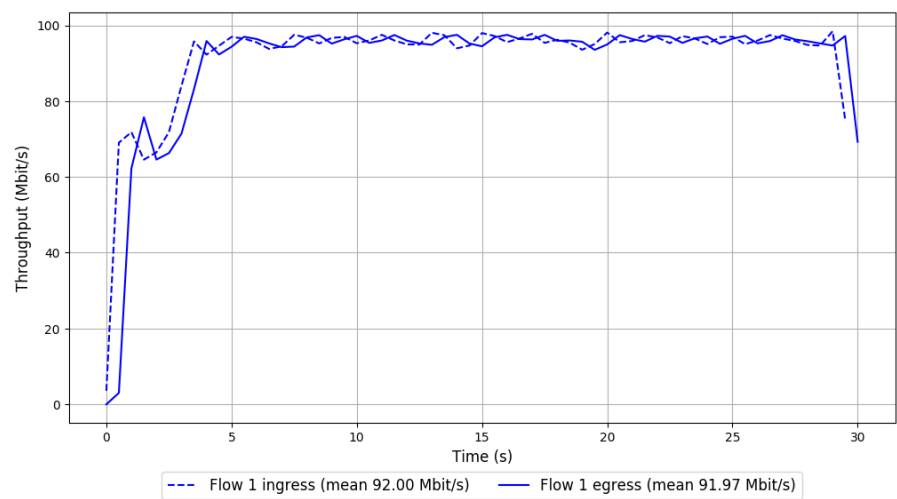
Average throughput: 91.97 Mbit/s

95th percentile per-packet one-way delay: 30.648 ms

Loss rate: 0.22%



Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 04:44:57

End at: 2018-05-25 04:45:27

Local clock offset: -0.042 ms

Remote clock offset: 0.862 ms

# Below is generated by plot.py at 2018-05-25 05:05:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 29.832 ms

Loss rate: 0.21%

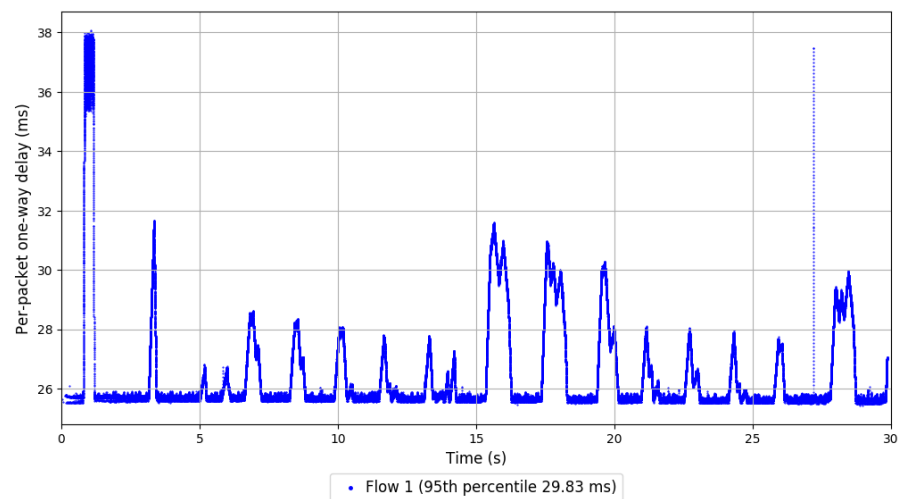
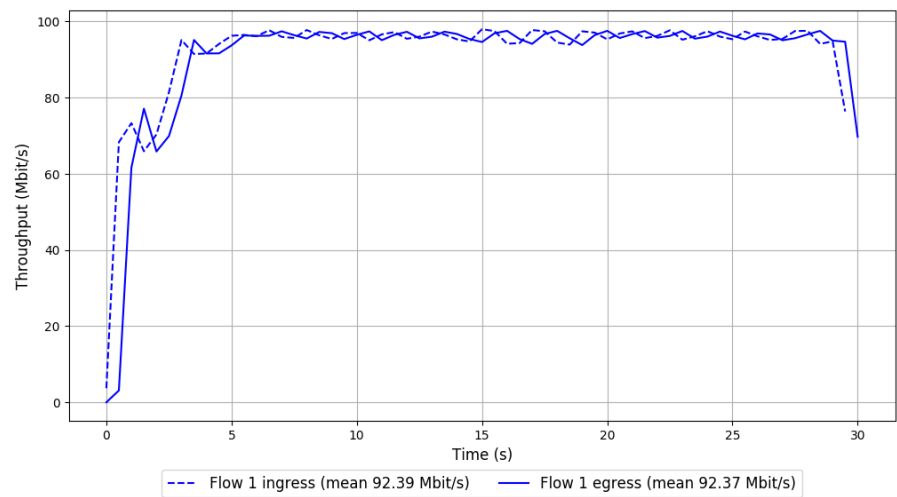
-- Flow 1:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 29.832 ms

Loss rate: 0.21%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 01:30:53

End at: 2018-05-25 01:31:23

Local clock offset: 0.687 ms

Remote clock offset: 0.89 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 01:51:38

End at: 2018-05-25 01:52:08

Local clock offset: 0.402 ms

Remote clock offset: 1.15 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 02:12:25

End at: 2018-05-25 02:12:55

Local clock offset: 0.356 ms

Remote clock offset: 3.408 ms



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

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 02:33:11

End at: 2018-05-25 02:33:41

Local clock offset: 0.246 ms

Remote clock offset: 1.248 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 02:53:59

End at: 2018-05-25 02:54:29

Local clock offset: 0.143 ms

Remote clock offset: 3.782 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 03:14:49

End at: 2018-05-25 03:15:19

Local clock offset: 0.156 ms

Remote clock offset: 2.02 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 03:35:51

End at: 2018-05-25 03:36:21

Local clock offset: 0.101 ms

Remote clock offset: 1.836 ms



Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 03:56:34

End at: 2018-05-25 03:57:04

Local clock offset: 0.118 ms

Remote clock offset: 2.042 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 04:17:35

End at: 2018-05-25 04:18:05

Local clock offset: 0.567 ms

Remote clock offset: 2.387 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 04:38:25

End at: 2018-05-25 04:38:55

Local clock offset: 0.054 ms

Remote clock offset: 0.383 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 01:28:19

End at: 2018-05-25 01:28:49

Local clock offset: 0.788 ms

Remote clock offset: 3.374 ms

# Below is generated by plot.py at 2018-05-25 05:05:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.02 Mbit/s

95th percentile per-packet one-way delay: 32.505 ms

Loss rate: 0.22%

-- Flow 1:

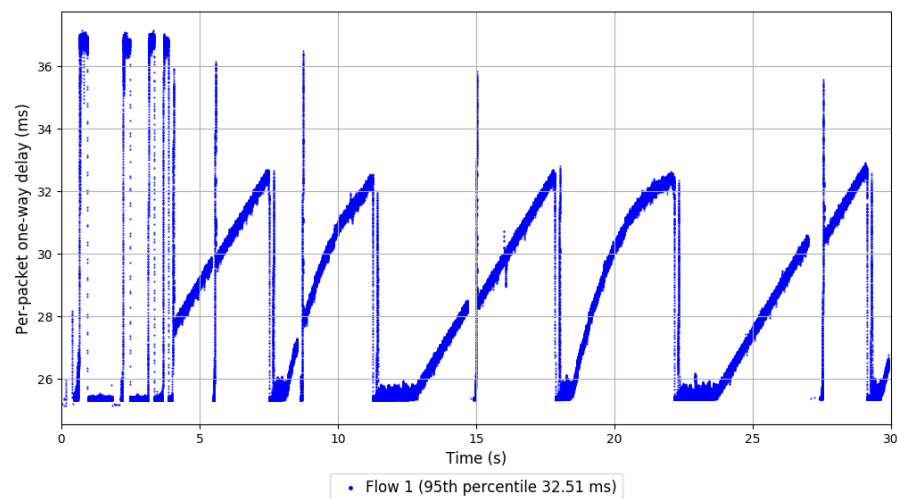
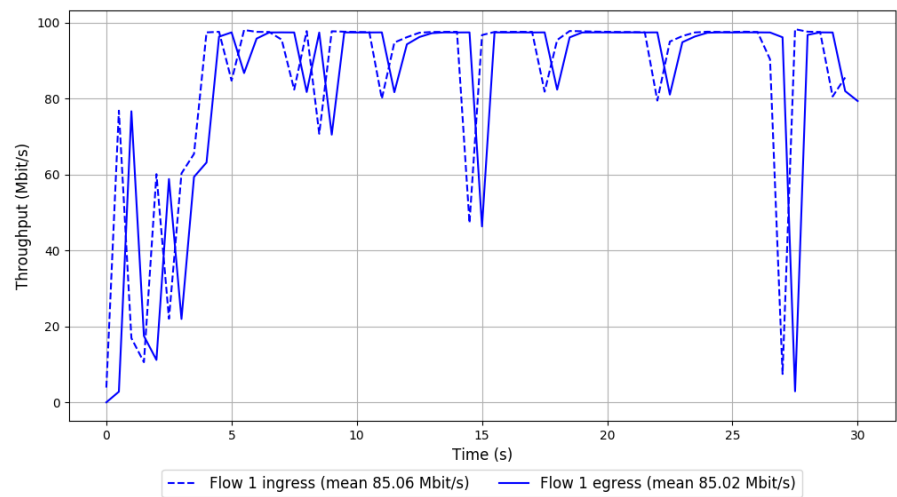
Average throughput: 85.02 Mbit/s

95th percentile per-packet one-way delay: 32.505 ms

Loss rate: 0.22%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 01:49:04

End at: 2018-05-25 01:49:34

Local clock offset: 0.493 ms

Remote clock offset: 3.21 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 33.808 ms

Loss rate: 0.24%

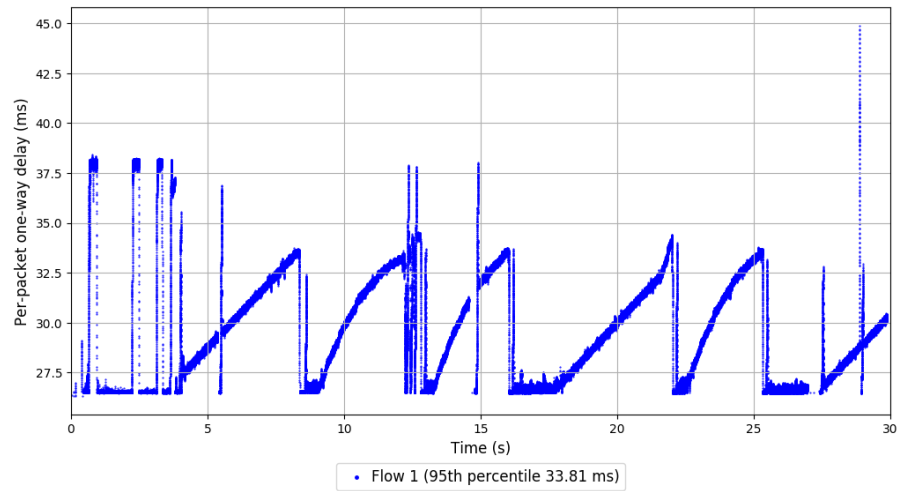
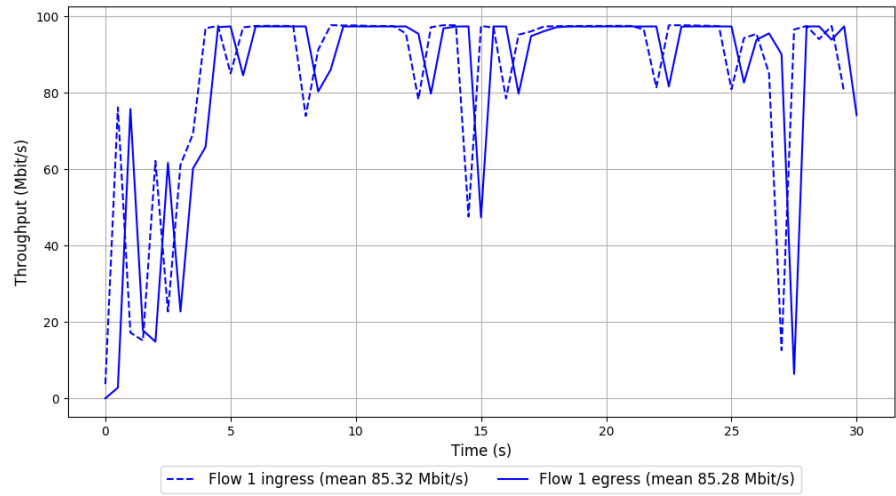
-- Flow 1:

Average throughput: 85.28 Mbit/s

95th percentile per-packet one-way delay: 33.808 ms

Loss rate: 0.24%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 02:09:50

End at: 2018-05-25 02:10:20

Local clock offset: 0.334 ms

Remote clock offset: 3.902 ms

# Below is generated by plot.py at 2018-05-25 05:05:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.99 Mbit/s

95th percentile per-packet one-way delay: 32.315 ms

Loss rate: 0.24%

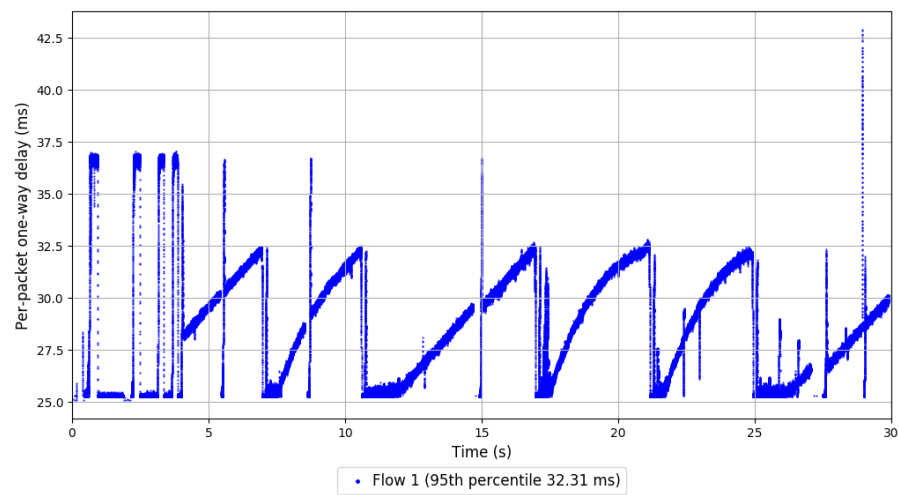
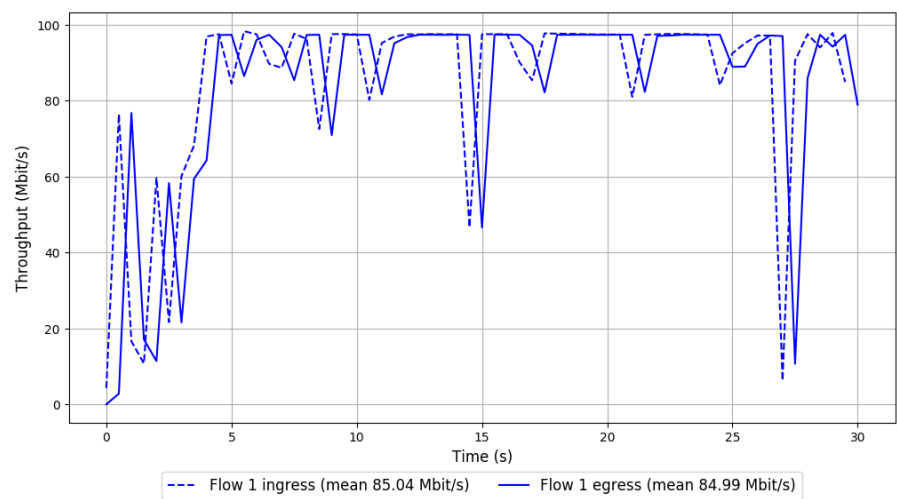
-- Flow 1:

Average throughput: 84.99 Mbit/s

95th percentile per-packet one-way delay: 32.315 ms

Loss rate: 0.24%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 02:30:36

End at: 2018-05-25 02:31:06

Local clock offset: 0.289 ms

Remote clock offset: 3.469 ms

# Below is generated by plot.py at 2018-05-25 05:06:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 36.974 ms

Loss rate: 0.25%

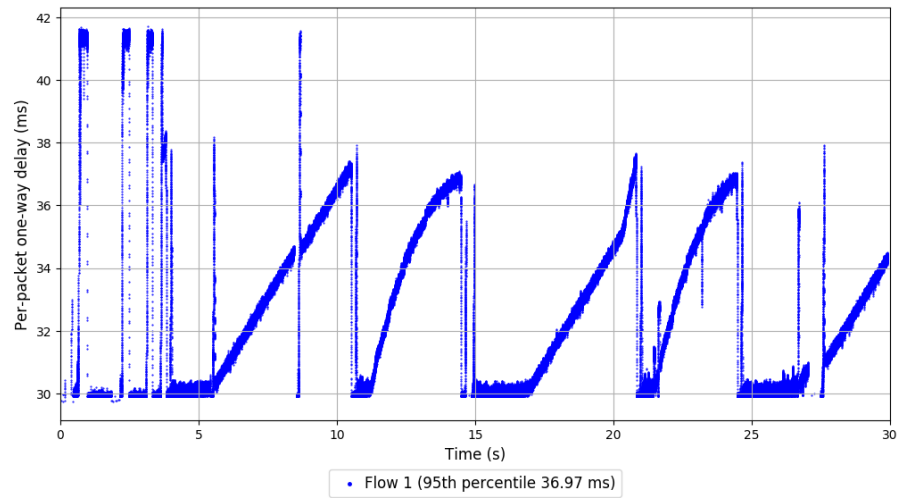
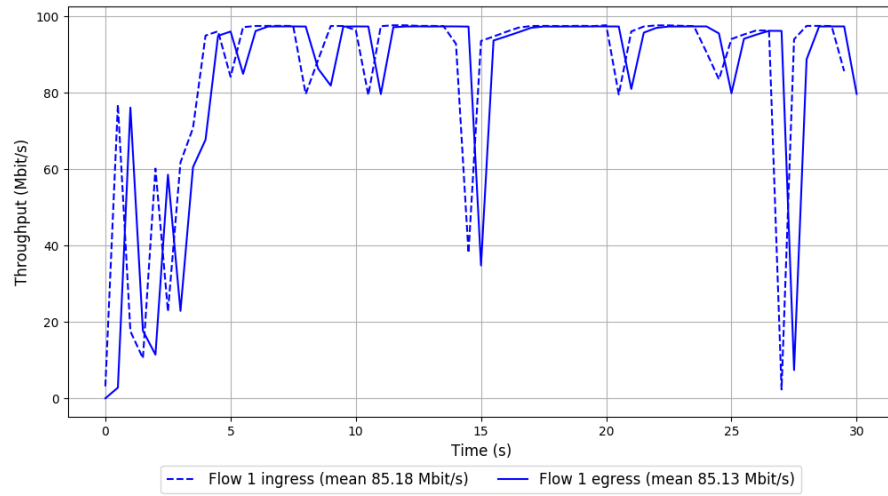
-- Flow 1:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 36.974 ms

Loss rate: 0.25%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 02:51:24

End at: 2018-05-25 02:51:54

Local clock offset: 0.141 ms

Remote clock offset: 1.204 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 34.998 ms

Loss rate: 0.23%

-- Flow 1:

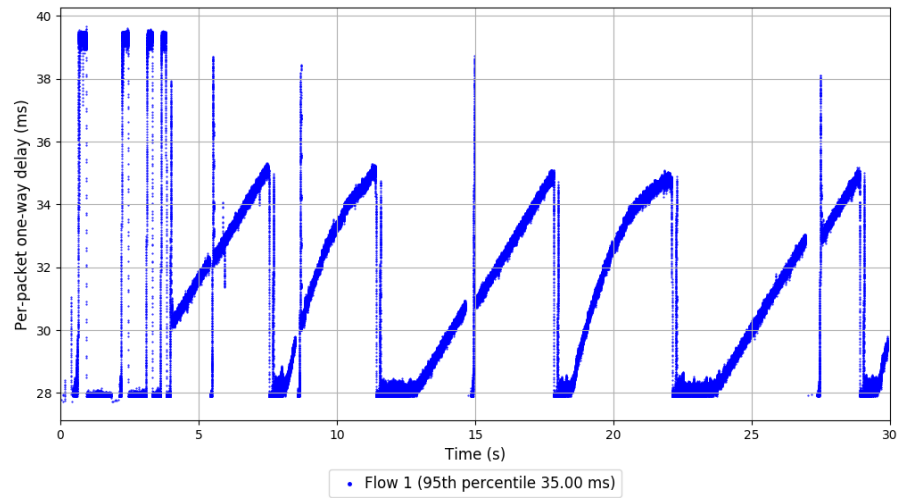
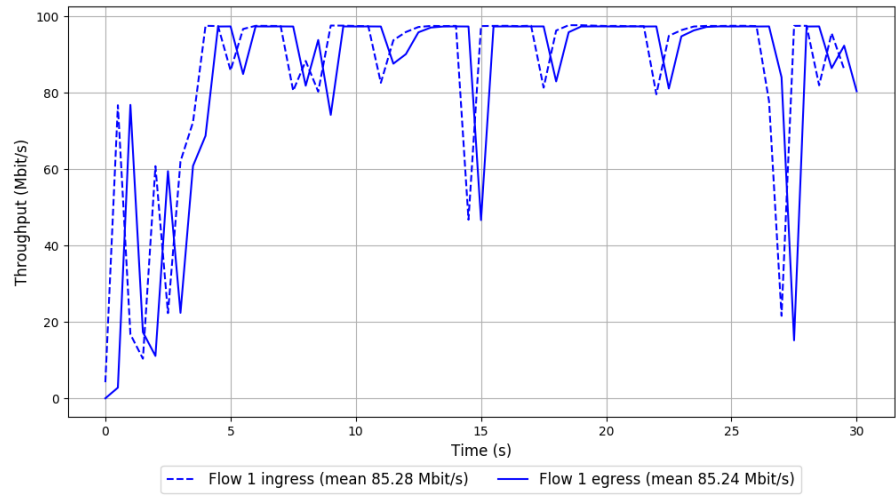
Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 34.998 ms

Loss rate: 0.23%



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



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 03:12:14

End at: 2018-05-25 03:12:44

Local clock offset: 0.143 ms

Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-05-25 05:06:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 34.885 ms

Loss rate: 0.25%

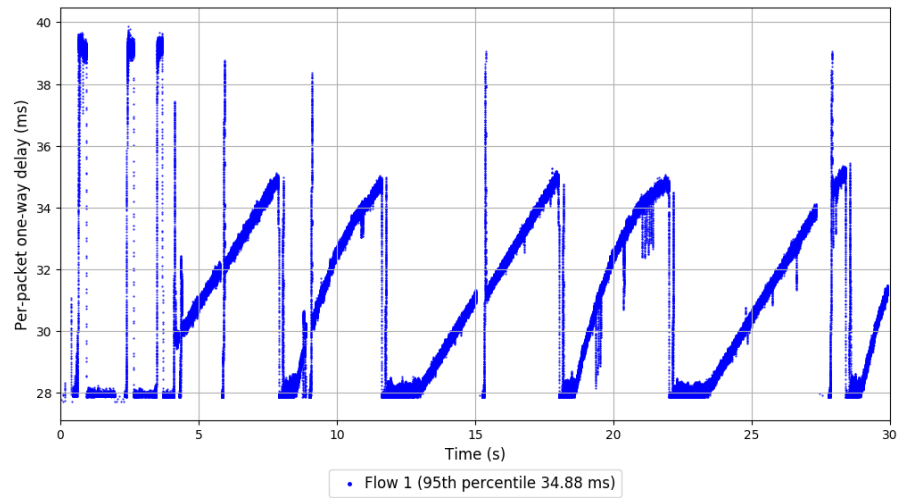
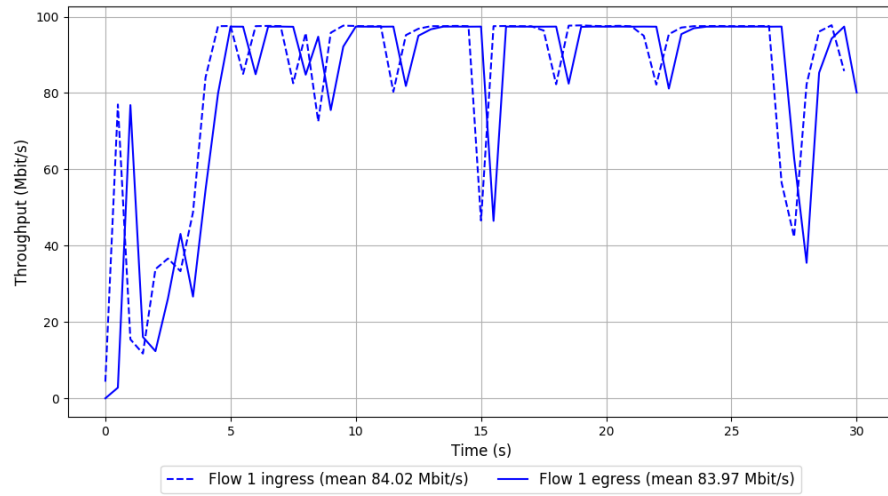
-- Flow 1:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 34.885 ms

Loss rate: 0.25%

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



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 03:33:18

End at: 2018-05-25 03:33:48

Local clock offset: 0.121 ms

Remote clock offset: -0.31 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 39.214 ms

Loss rate: 0.23%

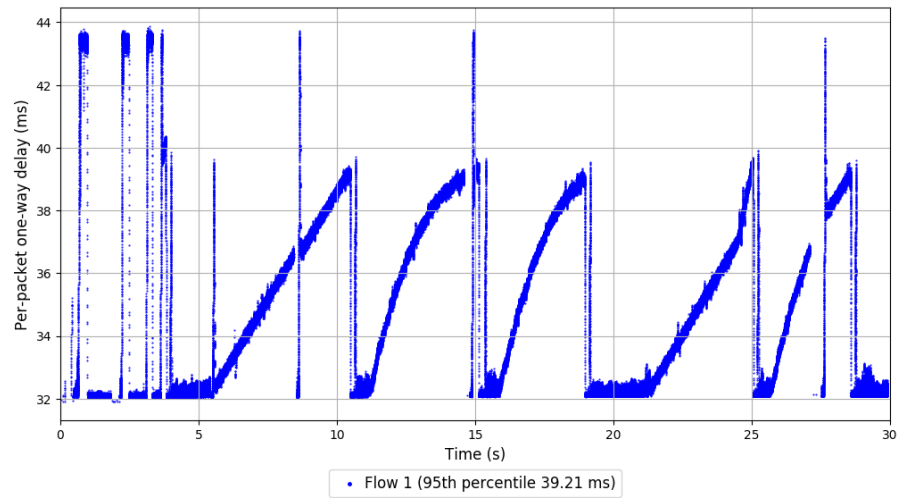
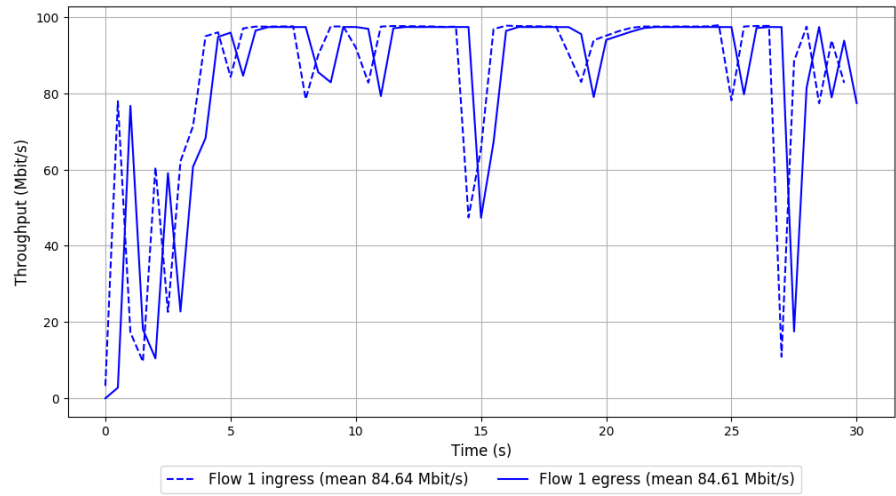
-- Flow 1:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 39.214 ms

Loss rate: 0.23%

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



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 03:54:00

End at: 2018-05-25 03:54:30

Local clock offset: -0.065 ms

Remote clock offset: 2.068 ms

# Below is generated by plot.py at 2018-05-25 05:06:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.76 Mbit/s

95th percentile per-packet one-way delay: 36.916 ms

Loss rate: 0.23%

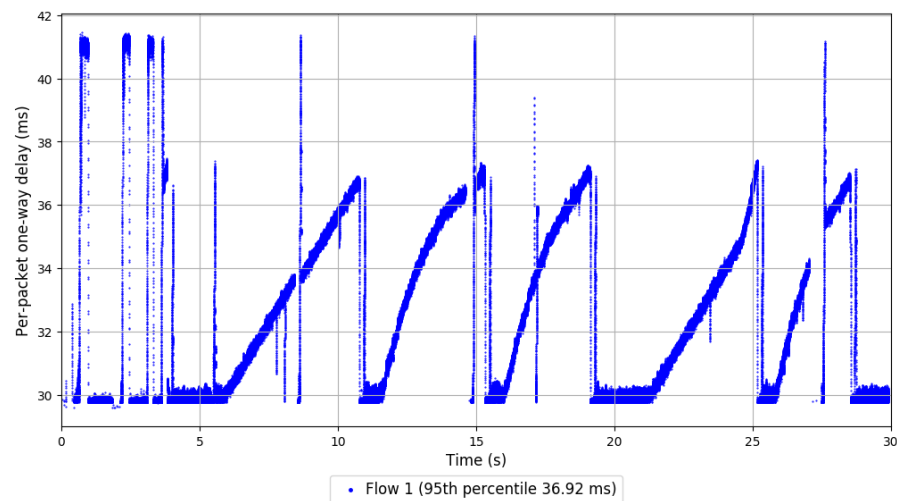
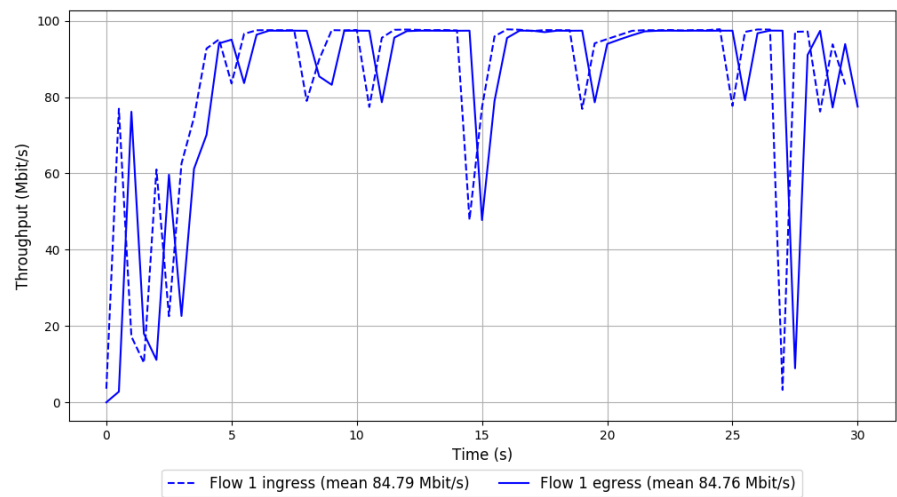
-- Flow 1:

Average throughput: 84.76 Mbit/s

95th percentile per-packet one-way delay: 36.916 ms

Loss rate: 0.23%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 04:15:01

End at: 2018-05-25 04:15:31

Local clock offset: 0.551 ms

Remote clock offset: 2.847 ms

# Below is generated by plot.py at 2018-05-25 05:07:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 40.074 ms

Loss rate: 0.29%

-- Flow 1:

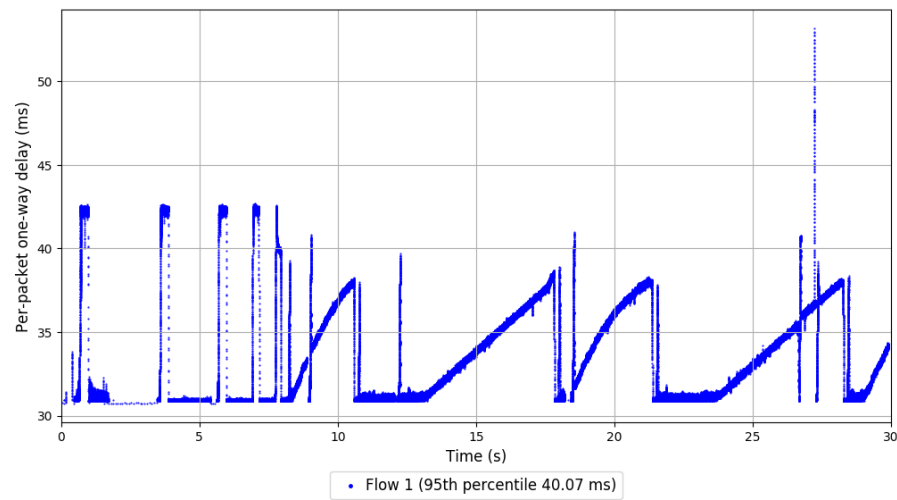
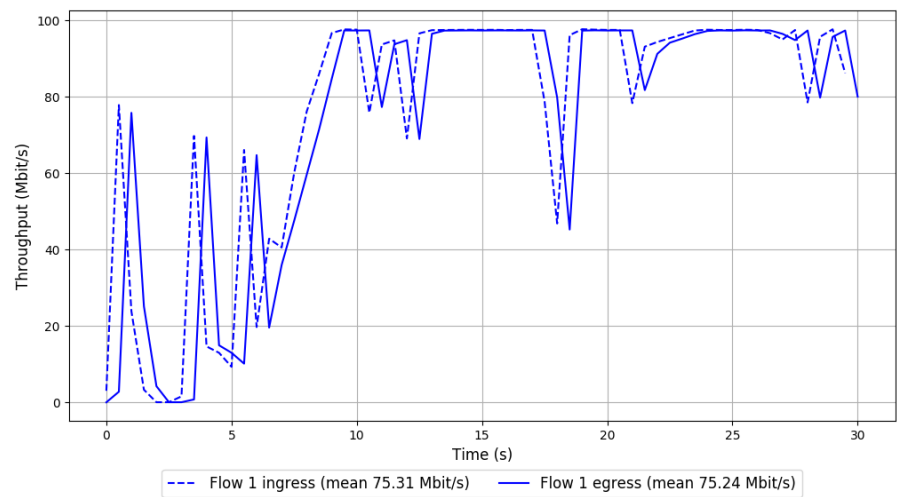
Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 40.074 ms

Loss rate: 0.29%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 04:35:50

End at: 2018-05-25 04:36:20

Local clock offset: 0.13 ms

Remote clock offset: 2.897 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 36.650 ms

Loss rate: 0.23%

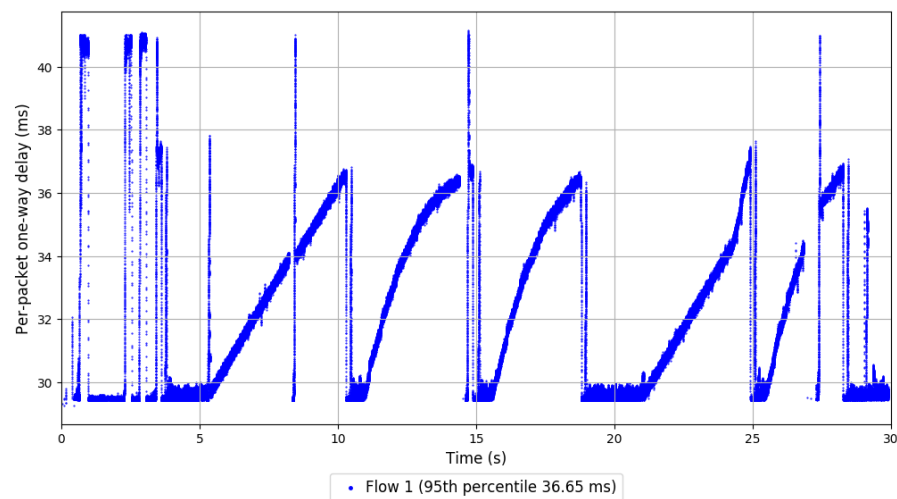
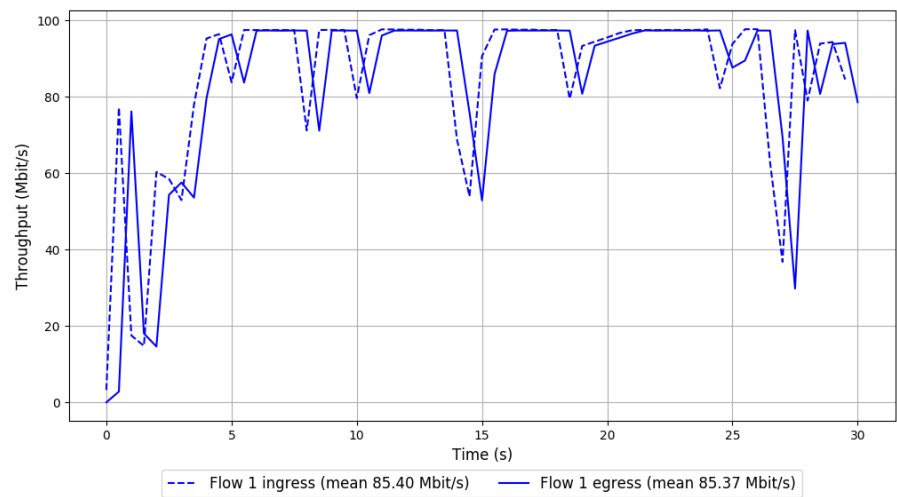
-- Flow 1:

Average throughput: 85.37 Mbit/s

95th percentile per-packet one-way delay: 36.650 ms

Loss rate: 0.23%

Run 10: Report of QUIC Cubic — Data Link

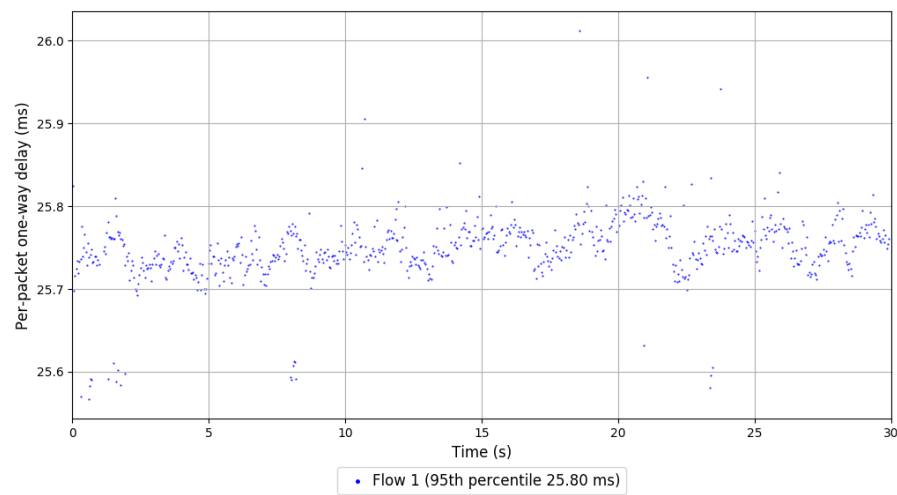
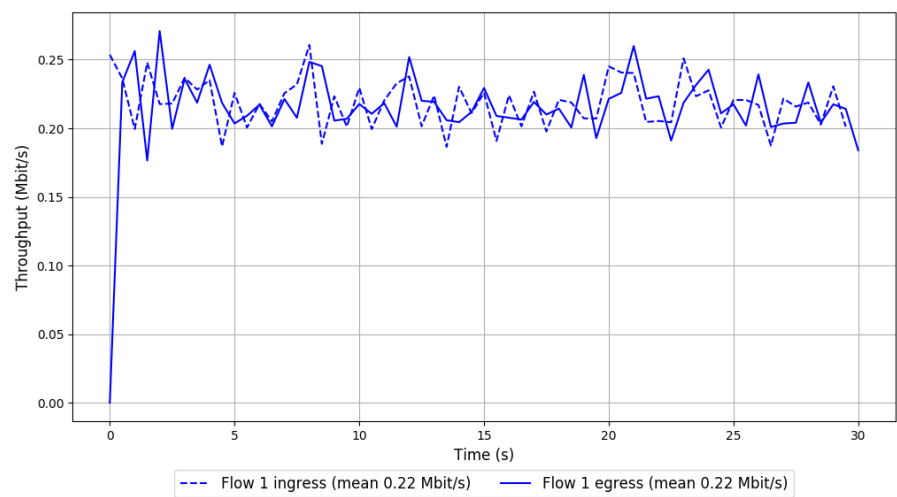


```
Run 1: Statistics of SCReAM

Start at: 2018-05-25 01:38:40
End at: 2018-05-25 01:39:11
Local clock offset: 0.427 ms
Remote clock offset: 2.994 ms

# Below is generated by plot.py at 2018-05-25 05:07:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.800 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.800 ms
Loss rate: 0.26%
```

Run 1: Report of SReAM — Data Link

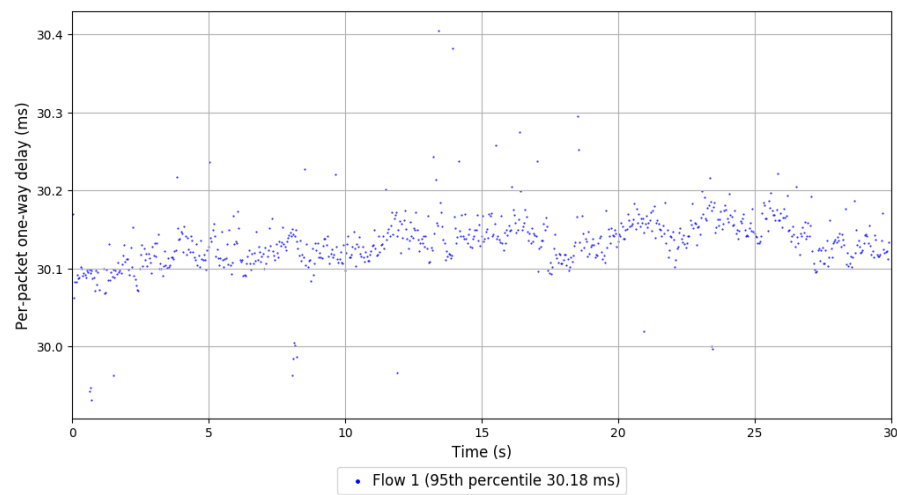
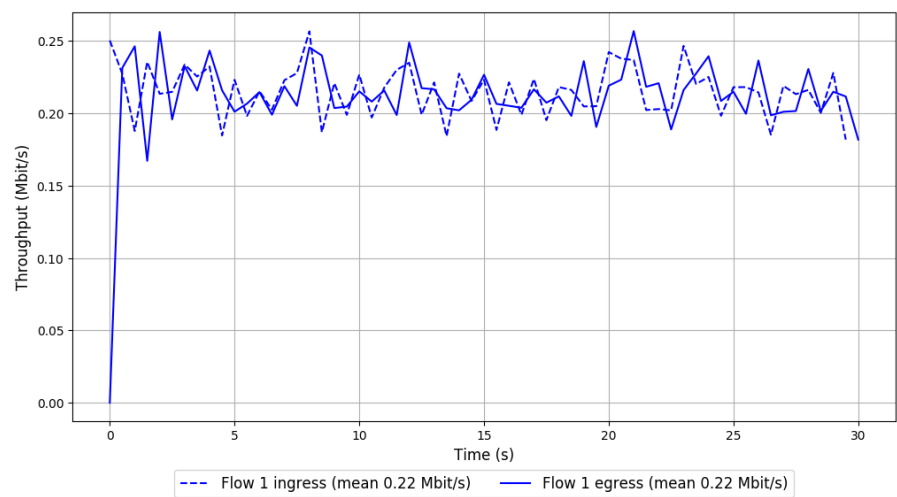


```
Run 2: Statistics of SCReAM

Start at: 2018-05-25 01:59:27
End at: 2018-05-25 01:59:57
Local clock offset: 0.334 ms
Remote clock offset: 3.747 ms

# Below is generated by plot.py at 2018-05-25 05:07:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.180 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.180 ms
Loss rate: 0.13%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-25 02:20:13

End at: 2018-05-25 02:20:43

Local clock offset: 0.296 ms

Remote clock offset: 3.571 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.698 ms

Loss rate: 0.26%

-- Flow 1:

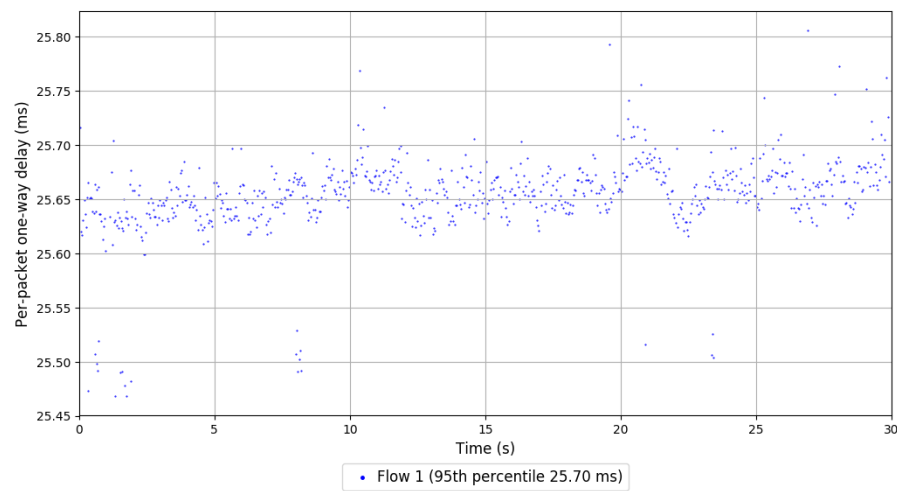
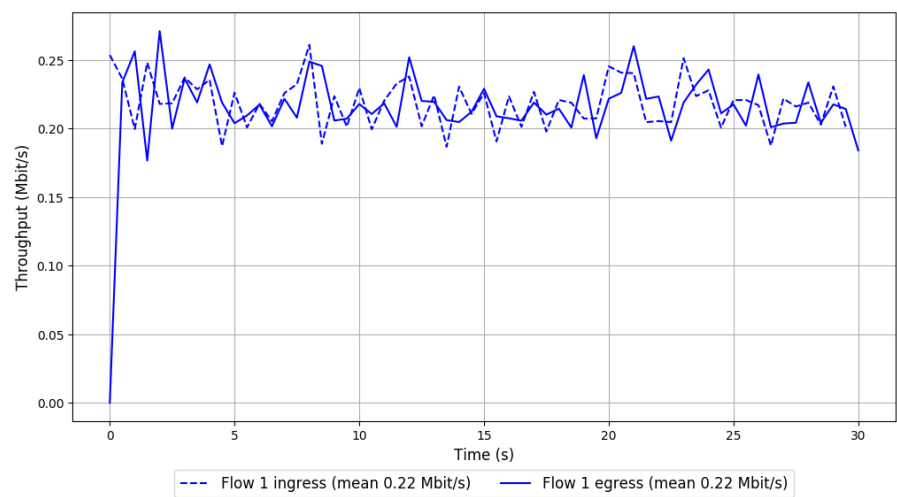
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 25.698 ms

Loss rate: 0.26%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-25 02:41:00

End at: 2018-05-25 02:41:30

Local clock offset: 0.1 ms

Remote clock offset: 3.203 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.770 ms

Loss rate: 0.26%

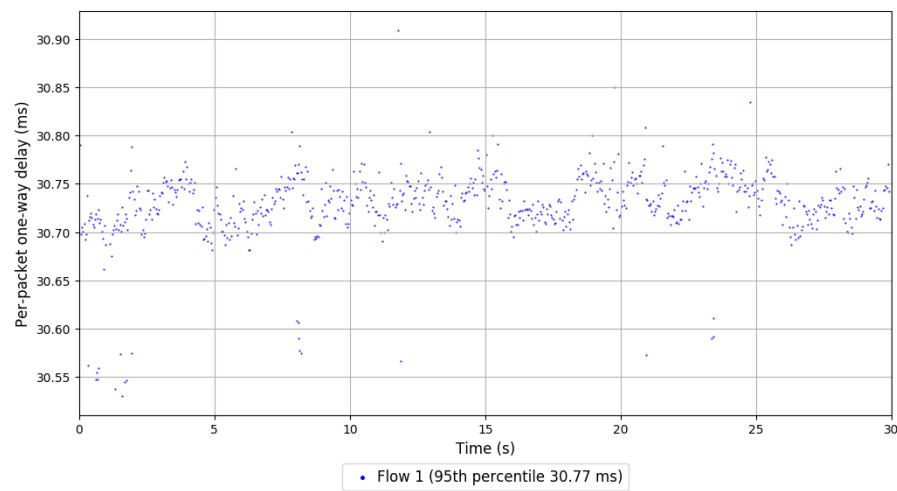
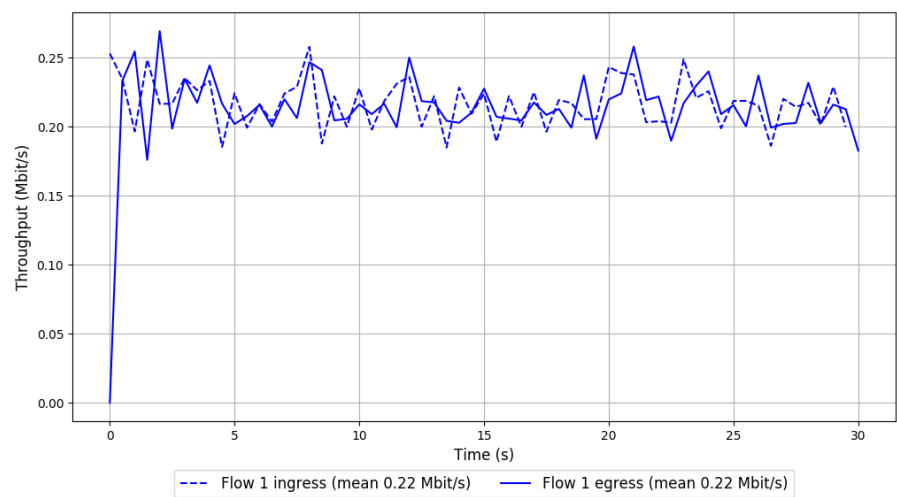
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.770 ms

Loss rate: 0.26%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-25 03:01:49

End at: 2018-05-25 03:02:19

Local clock offset: 0.077 ms

Remote clock offset: 2.735 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.795 ms

Loss rate: 0.26%

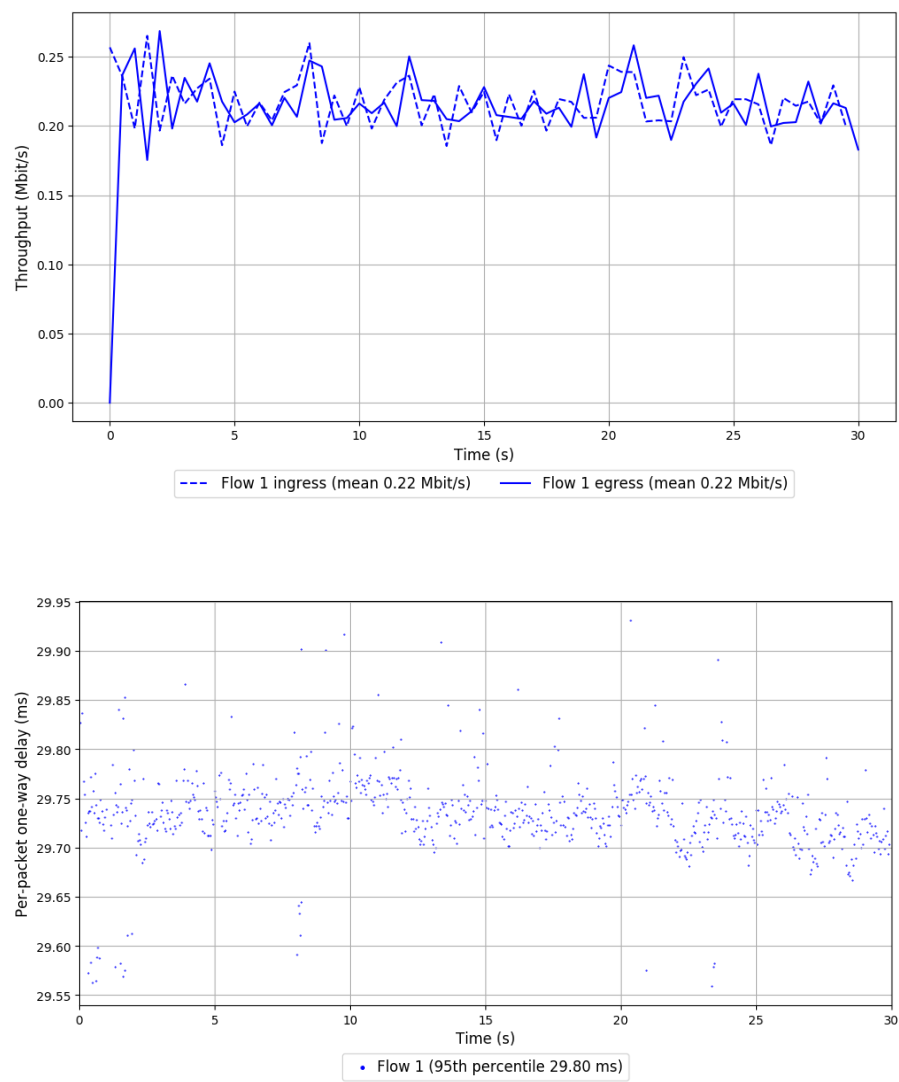
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.795 ms

Loss rate: 0.26%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-25 03:22:54

End at: 2018-05-25 03:23:24

Local clock offset: 0.166 ms

Remote clock offset: 2.138 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.564 ms

Loss rate: 0.13%

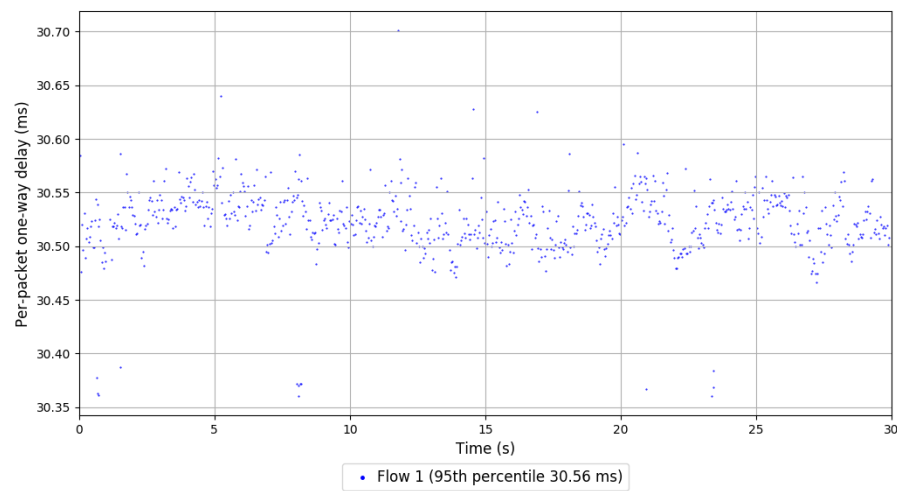
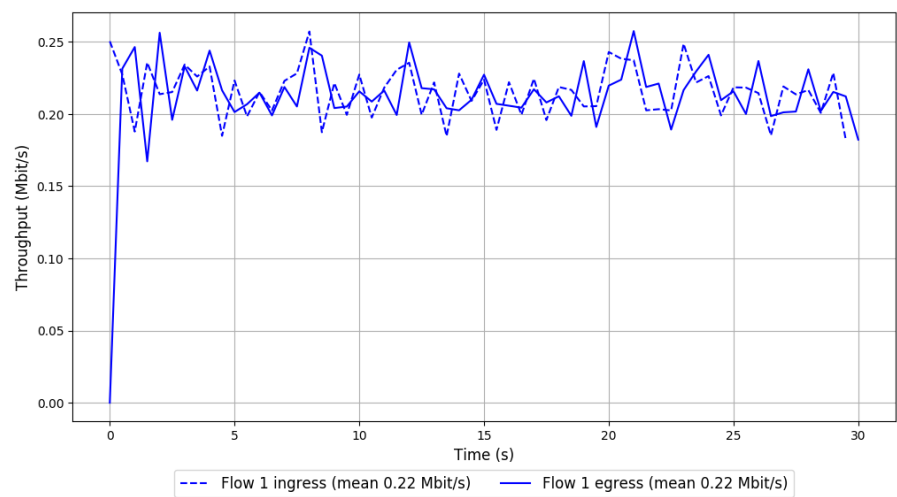
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.564 ms

Loss rate: 0.13%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-25 03:43:38

End at: 2018-05-25 03:44:08

Local clock offset: -0.029 ms

Remote clock offset: 2.119 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.743 ms

Loss rate: 0.13%

-- Flow 1:

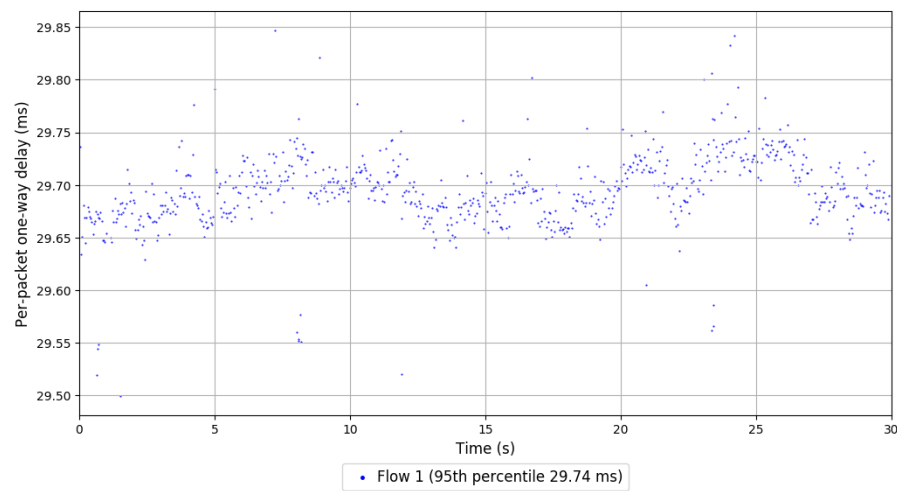
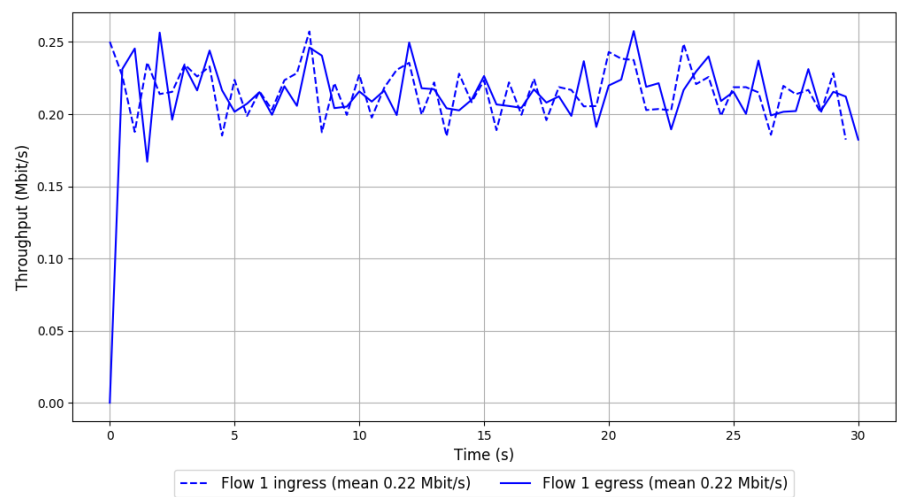
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 29.743 ms

Loss rate: 0.13%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-25 04:04:37

End at: 2018-05-25 04:05:07

Local clock offset: 0.44 ms

Remote clock offset: 2.011 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.623 ms

Loss rate: 0.26%

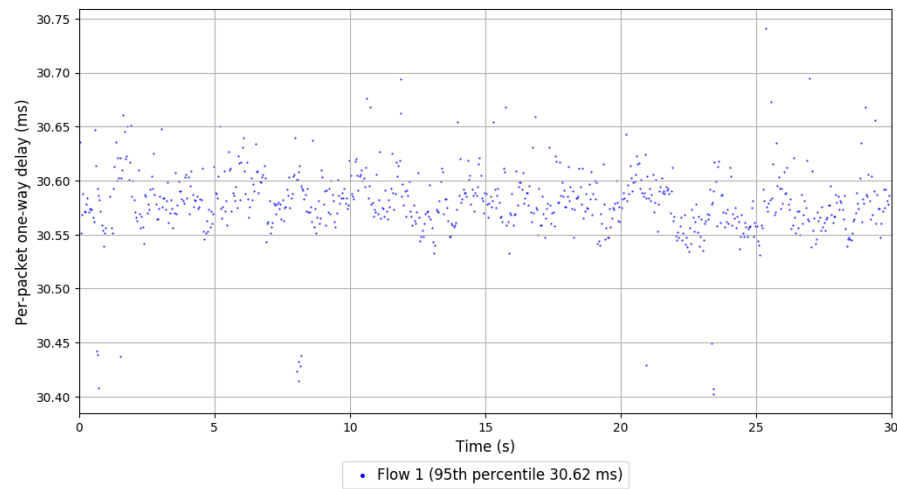
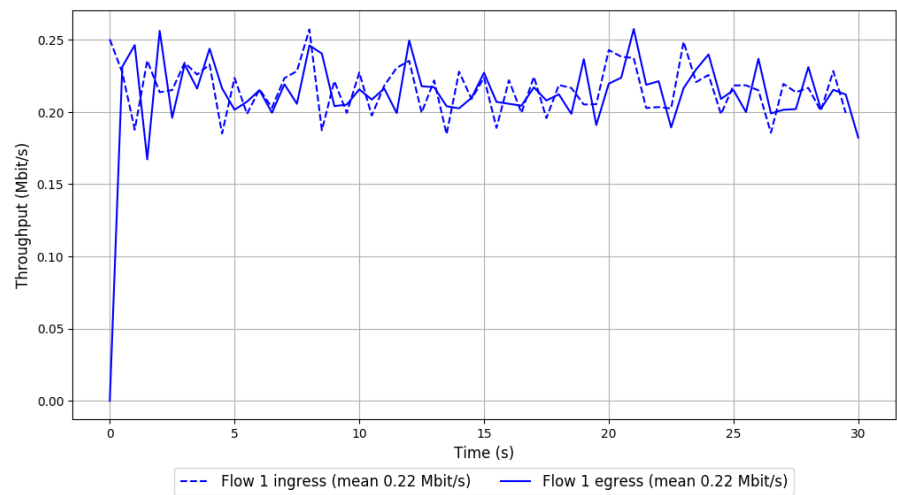
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.623 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-25 04:25:26

End at: 2018-05-25 04:25:56

Local clock offset: 0.657 ms

Remote clock offset: 2.442 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.651 ms

Loss rate: 0.26%

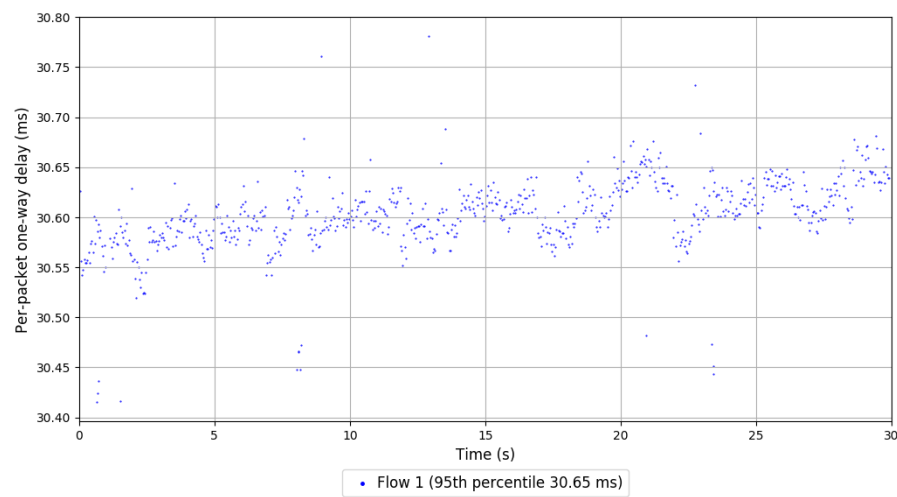
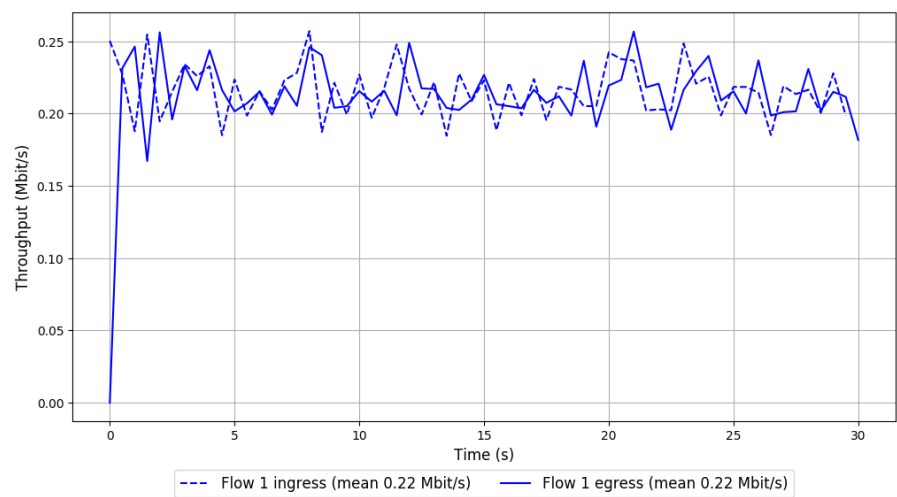
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.651 ms

Loss rate: 0.26%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-25 04:46:15

End at: 2018-05-25 04:46:45

Local clock offset: -0.162 ms

Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.626 ms

Loss rate: 0.26%

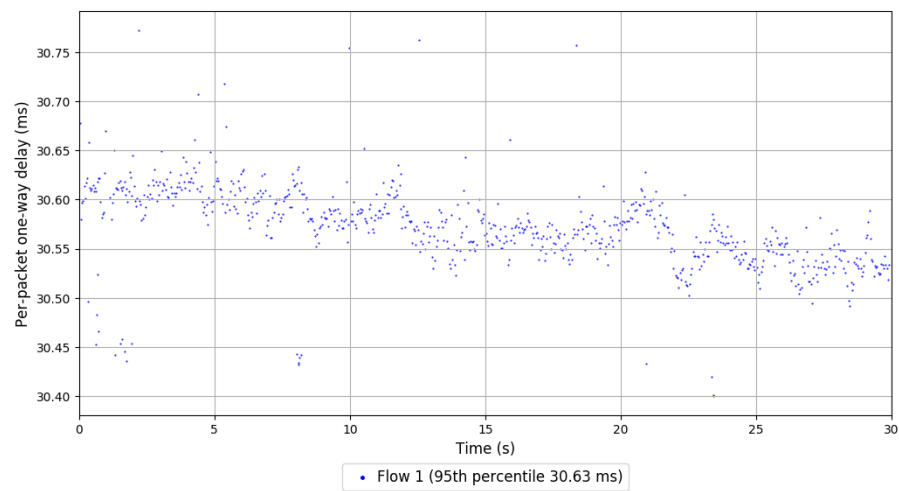
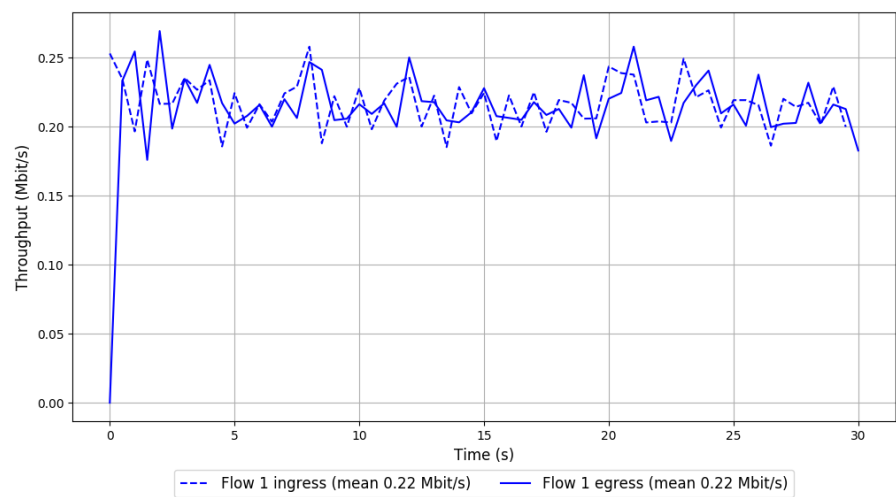
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.626 ms

Loss rate: 0.26%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-25 01:29:37

End at: 2018-05-25 01:30:07

Local clock offset: 0.742 ms

Remote clock offset: 2.906 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 32.117 ms

Loss rate: 0.24%

-- Flow 1:

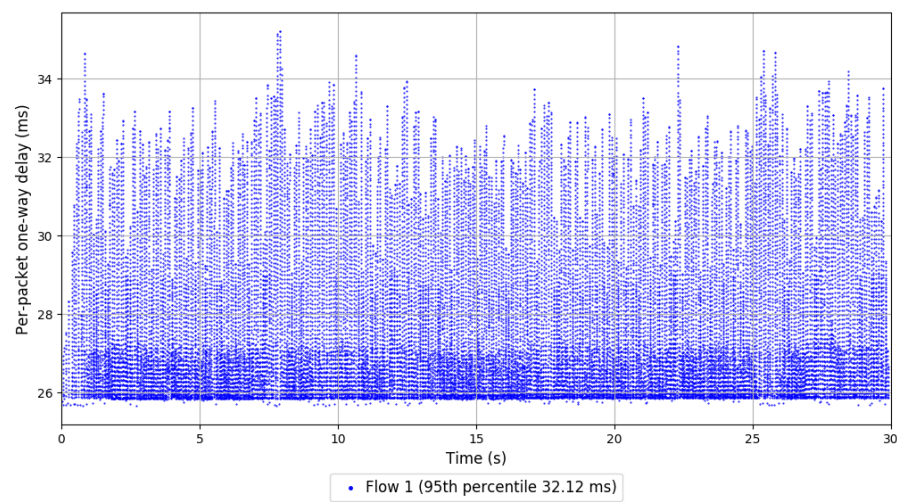
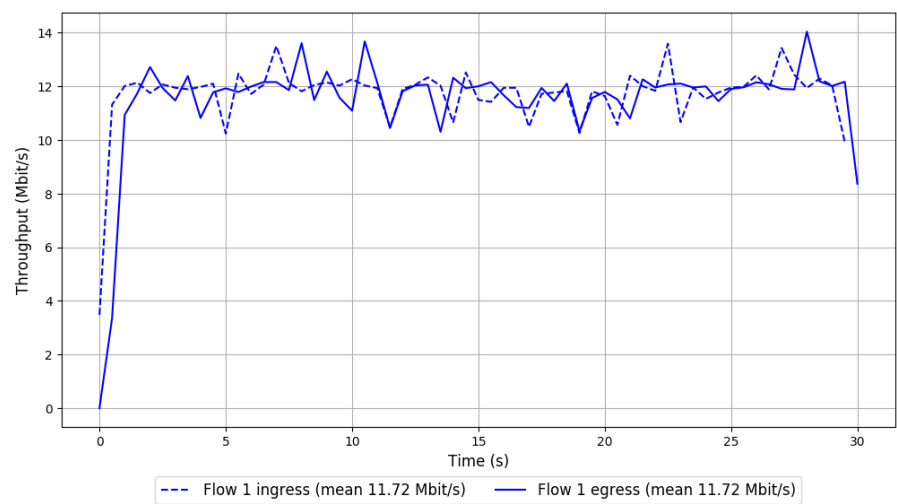
Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 32.117 ms

Loss rate: 0.24%



Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-25 01:50:22

End at: 2018-05-25 01:50:52

Local clock offset: 0.498 ms

Remote clock offset: 3.197 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 36.421 ms

Loss rate: 0.09%

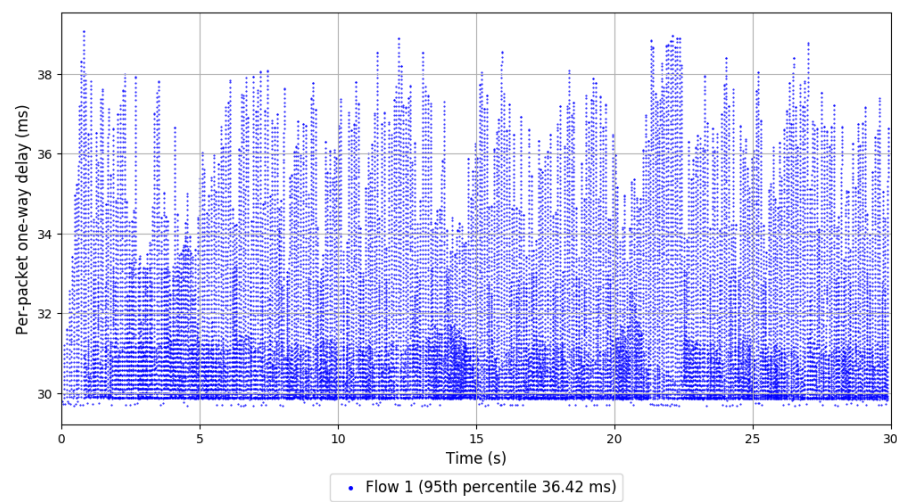
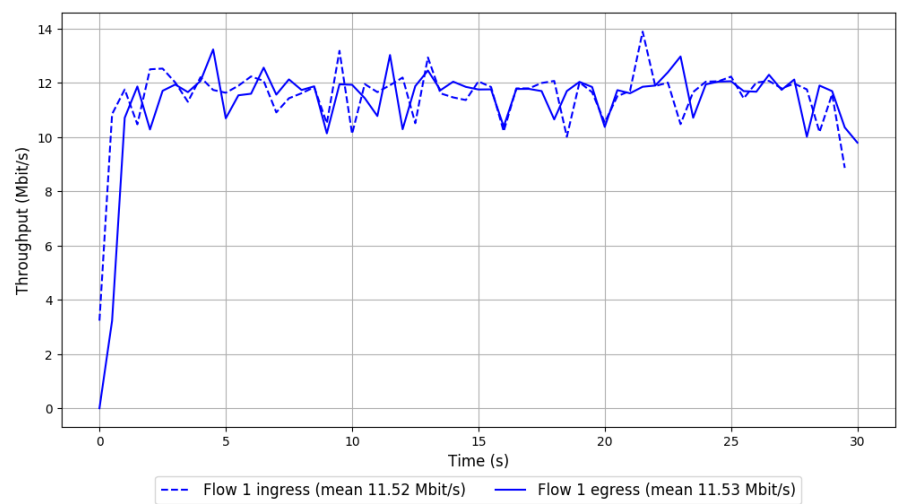
-- Flow 1:

Average throughput: 11.53 Mbit/s

95th percentile per-packet one-way delay: 36.421 ms

Loss rate: 0.09%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-25 02:11:09

End at: 2018-05-25 02:11:39

Local clock offset: 0.355 ms

Remote clock offset: 3.372 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 37.912 ms

Loss rate: 0.15%

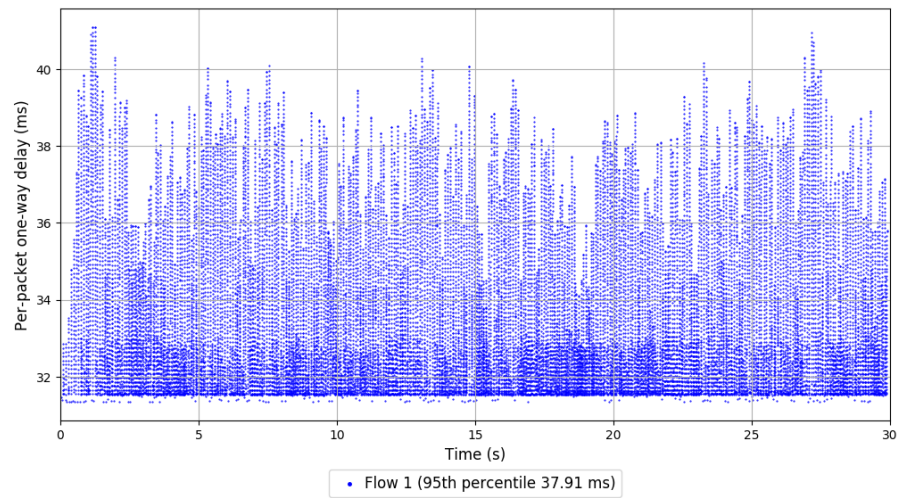
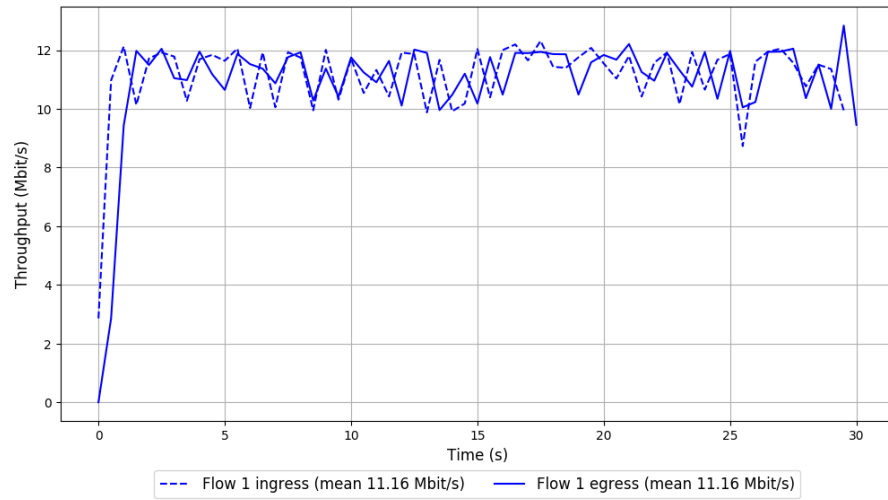
-- Flow 1:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 37.912 ms

Loss rate: 0.15%

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



Run 4: Statistics of Sprout

Start at: 2018-05-25 02:31:55

End at: 2018-05-25 02:32:25

Local clock offset: 0.178 ms

Remote clock offset: 3.704 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.20 Mbit/s

95th percentile per-packet one-way delay: 31.957 ms

Loss rate: 0.05%

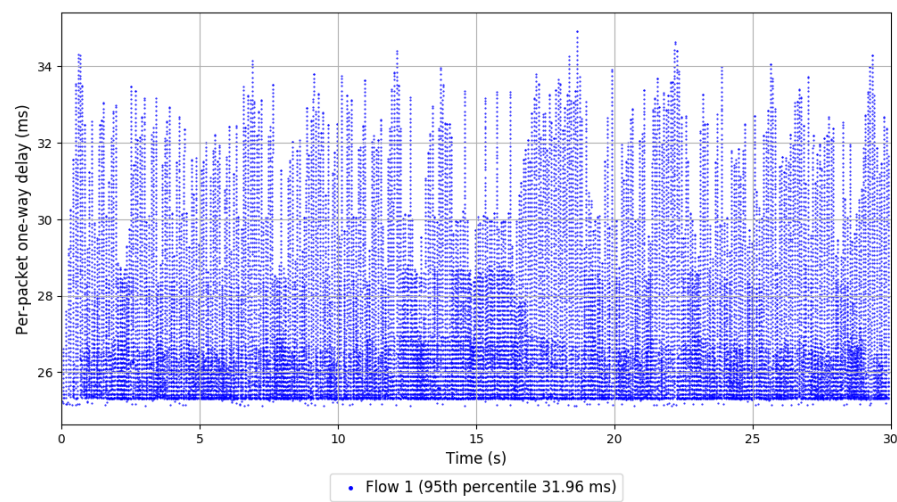
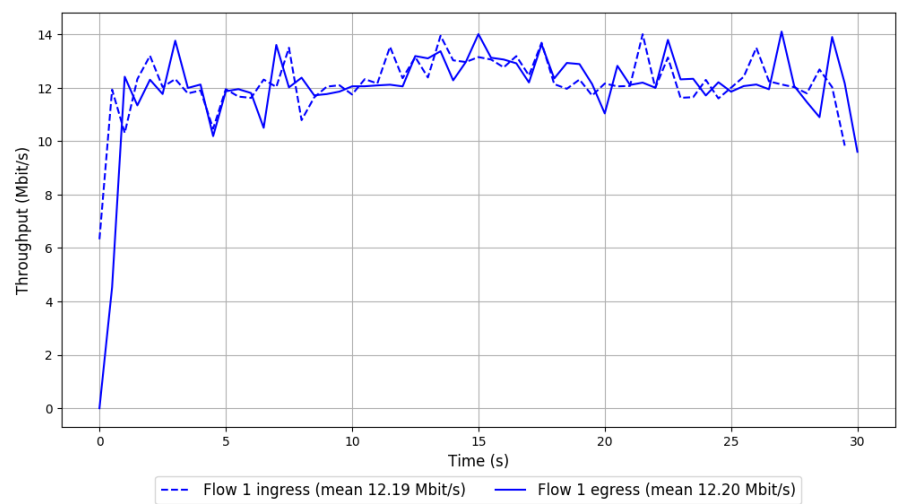
-- Flow 1:

Average throughput: 12.20 Mbit/s

95th percentile per-packet one-way delay: 31.957 ms

Loss rate: 0.05%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-25 02:52:43

End at: 2018-05-25 02:53:13

Local clock offset: 0.13 ms

Remote clock offset: 1.165 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 35.053 ms

Loss rate: 0.04%

-- Flow 1:

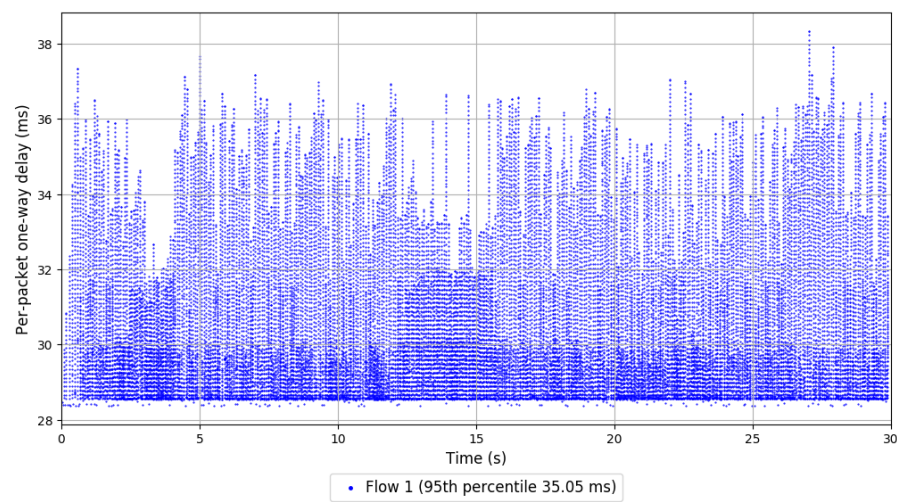
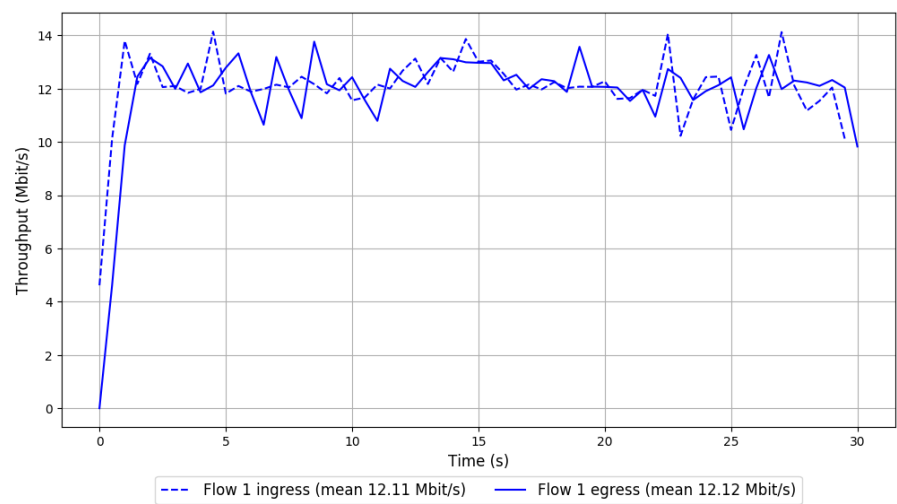
Average throughput: 12.12 Mbit/s

95th percentile per-packet one-way delay: 35.053 ms

Loss rate: 0.04%



Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-25 03:13:33

End at: 2018-05-25 03:14:03

Local clock offset: 0.147 ms

Remote clock offset: 2.481 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 36.683 ms

Loss rate: 0.28%

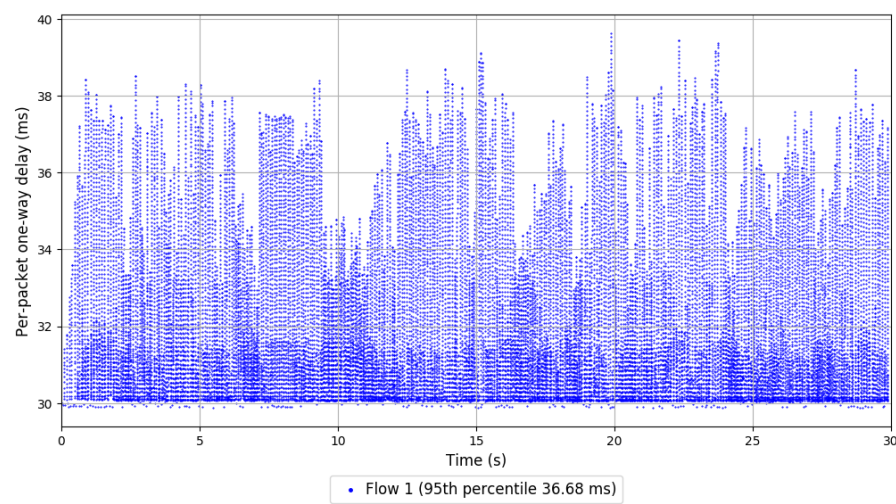
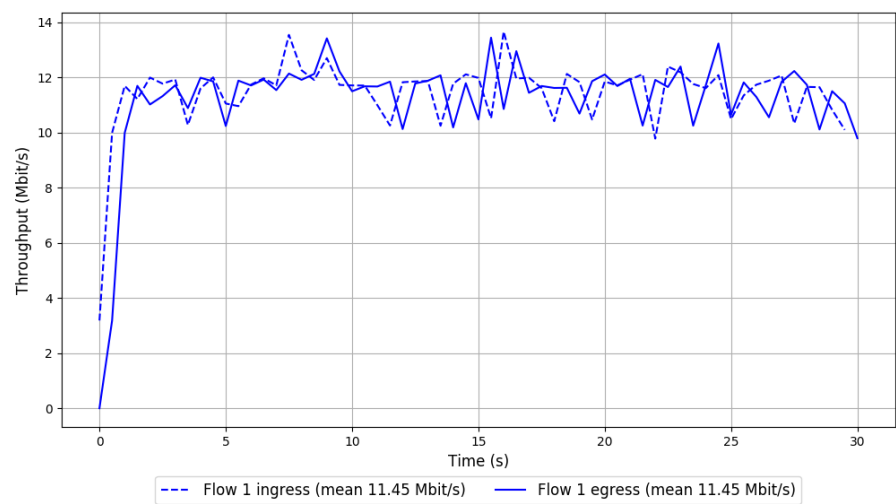
-- Flow 1:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 36.683 ms

Loss rate: 0.28%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-25 03:34:36

End at: 2018-05-25 03:35:06

Local clock offset: 0.001 ms

Remote clock offset: 1.735 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: 36.286 ms

Loss rate: 0.29%

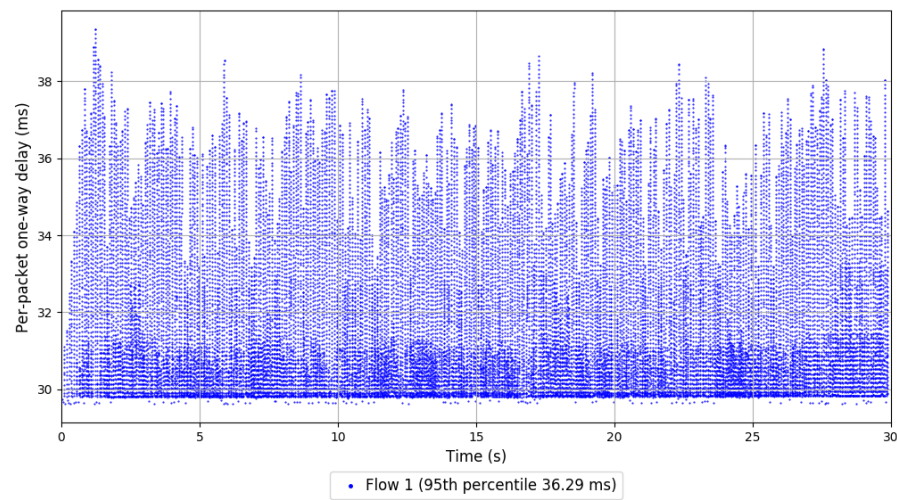
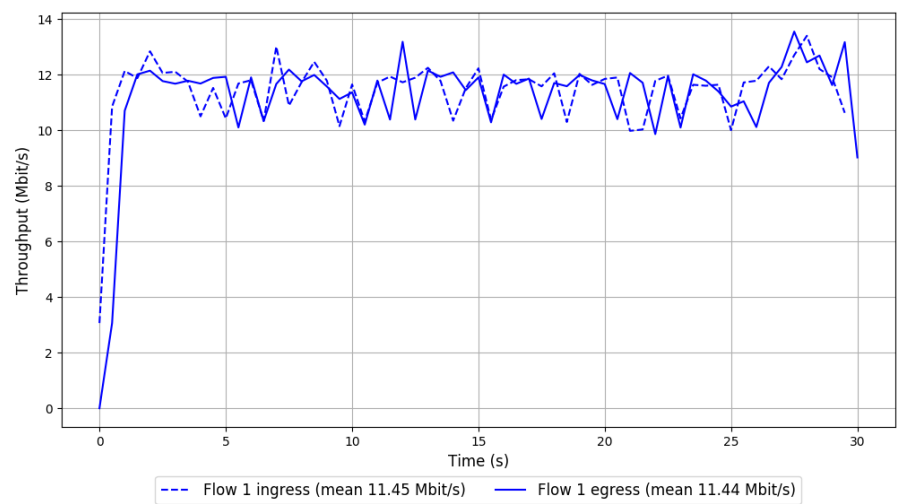
-- Flow 1:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: 36.286 ms

Loss rate: 0.29%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-25 03:55:18

End at: 2018-05-25 03:55:48

Local clock offset: 0.054 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 34.292 ms

Loss rate: 0.12%

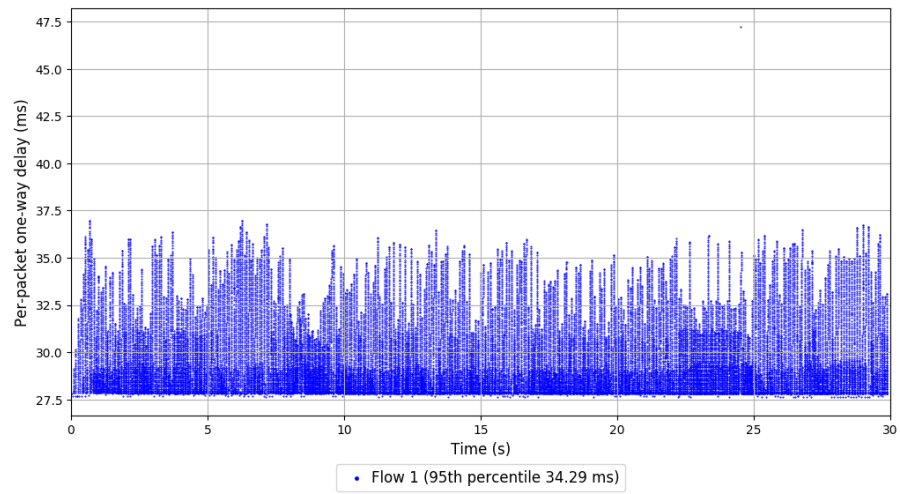
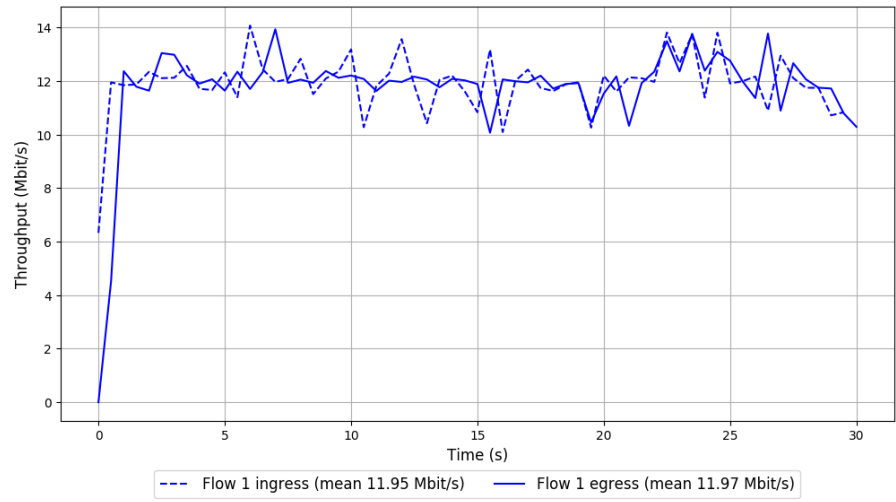
-- Flow 1:

Average throughput: 11.97 Mbit/s

95th percentile per-packet one-way delay: 34.292 ms

Loss rate: 0.12%

# Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-25 04:16:20

End at: 2018-05-25 04:16:50

Local clock offset: 0.649 ms

Remote clock offset: 0.243 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 35.292 ms

Loss rate: 0.27%

-- Flow 1:

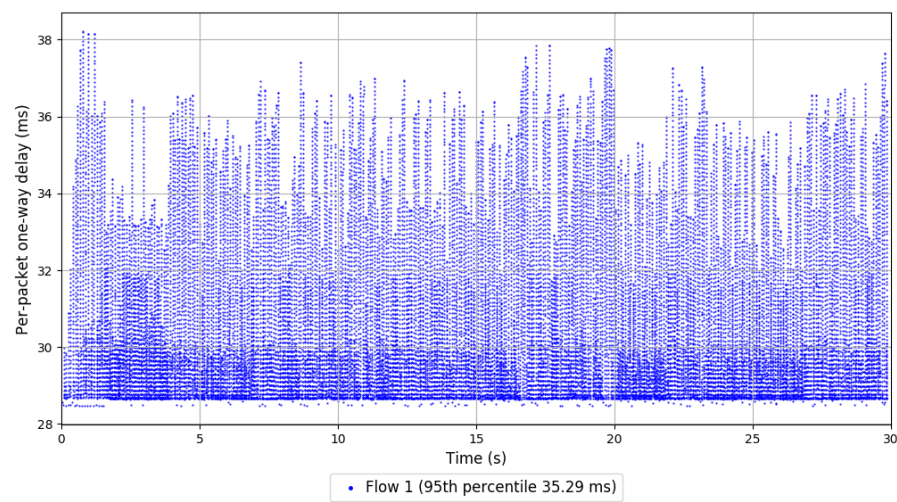
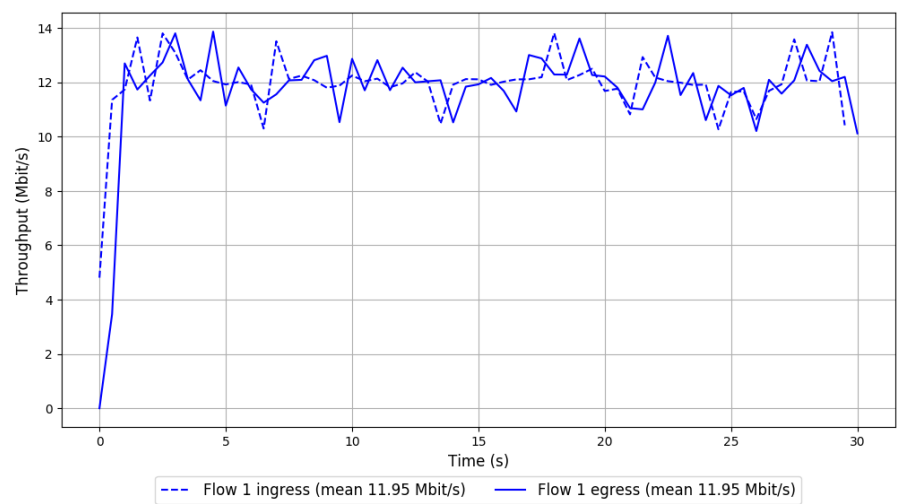
Average throughput: 11.95 Mbit/s

95th percentile per-packet one-way delay: 35.292 ms

Loss rate: 0.27%



Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-25 04:37:09

End at: 2018-05-25 04:37:39

Local clock offset: 0.1 ms

Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2018-05-25 05:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 34.387 ms

Loss rate: 0.23%

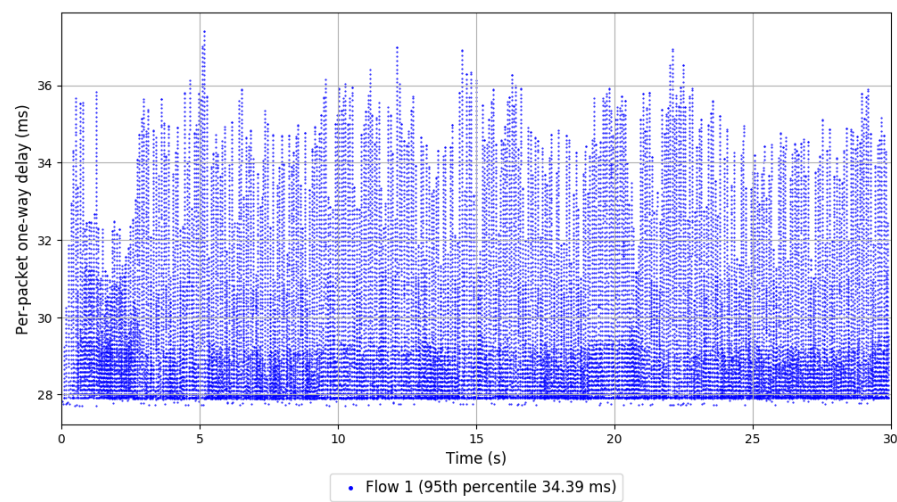
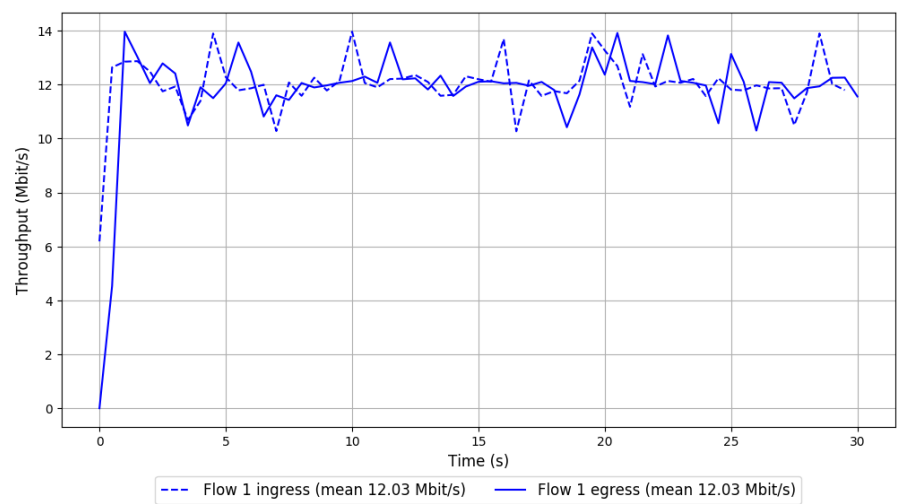
-- Flow 1:

Average throughput: 12.03 Mbit/s

95th percentile per-packet one-way delay: 34.387 ms

Loss rate: 0.23%

Run 10: Report of Sprout — Data Link

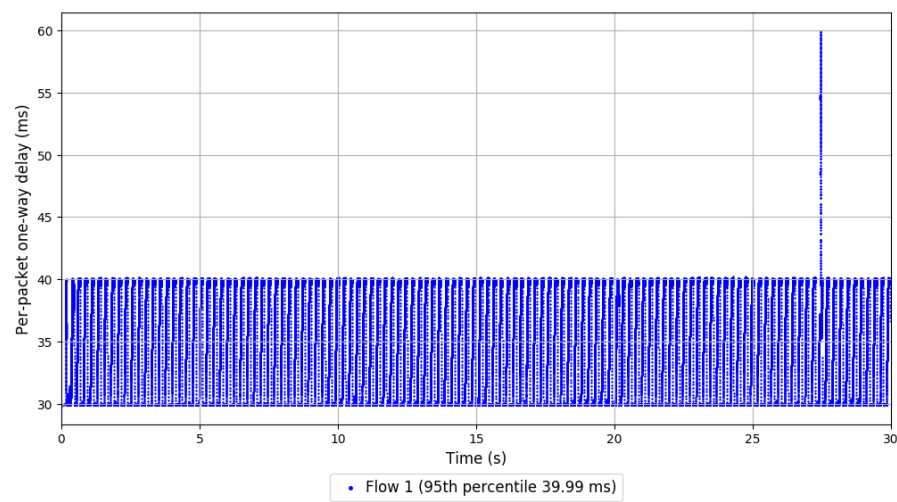
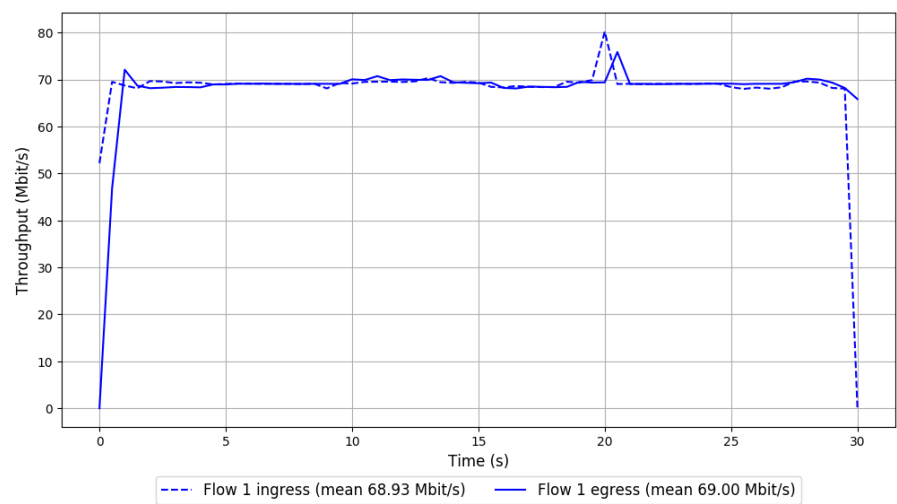


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 01:26:59
End at: 2018-05-25 01:27:29
Local clock offset: 0.879 ms
Remote clock offset: 2.916 ms

# Below is generated by plot.py at 2018-05-25 05:07:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.00 Mbit/s
95th percentile per-packet one-way delay: 39.990 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 69.00 Mbit/s
95th percentile per-packet one-way delay: 39.990 ms
Loss rate: 0.10%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 01:47:44

End at: 2018-05-25 01:48:14

Local clock offset: 0.514 ms

Remote clock offset: 1.145 ms

# Below is generated by plot.py at 2018-05-25 05:08:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 42.079 ms

Loss rate: 0.30%

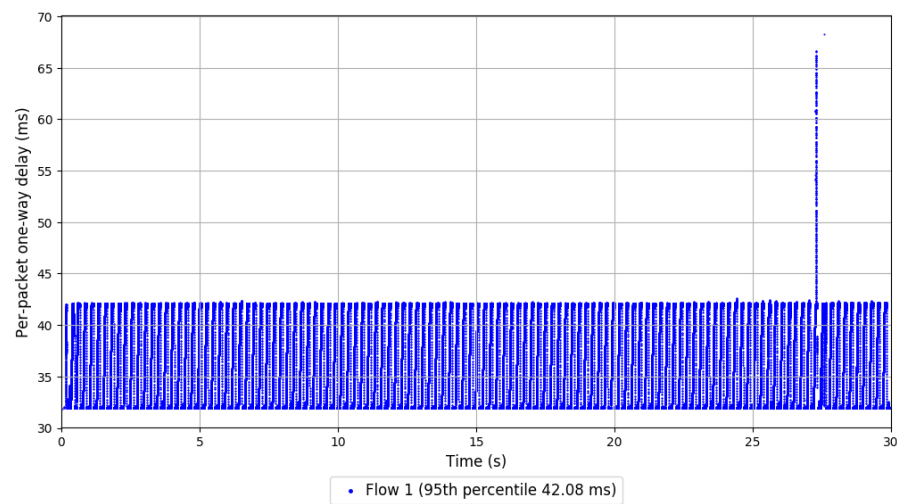
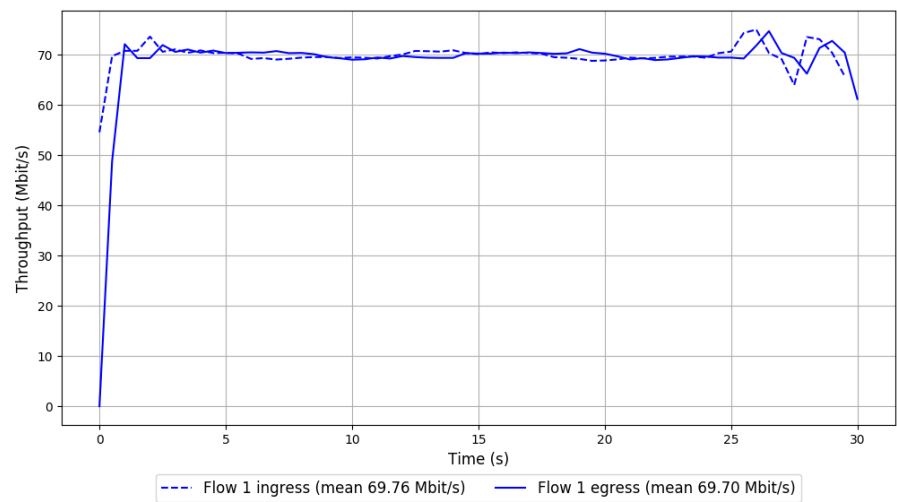
-- Flow 1:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 42.079 ms

Loss rate: 0.30%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 02:08:30

End at: 2018-05-25 02:09:00

Local clock offset: 0.255 ms

Remote clock offset: 3.307 ms

# Below is generated by plot.py at 2018-05-25 05:08:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 35.831 ms

Loss rate: 0.31%

-- Flow 1:

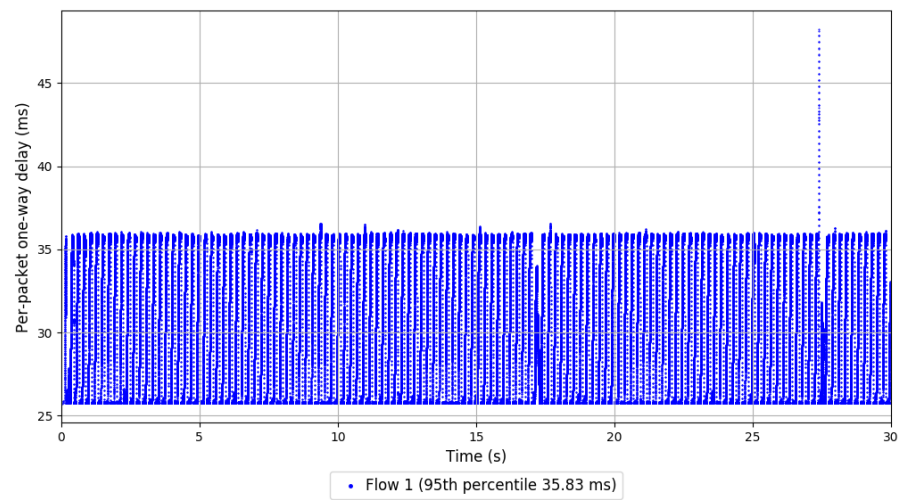
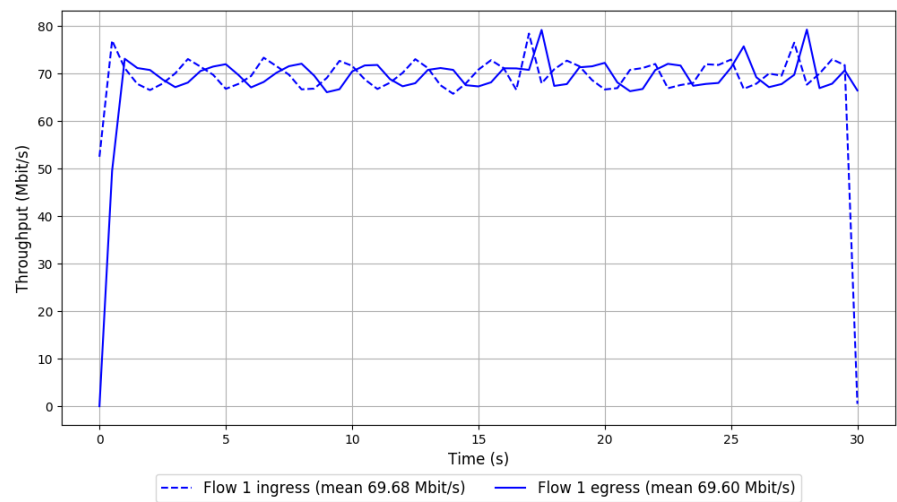
Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 35.831 ms

Loss rate: 0.31%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 02:29:16

End at: 2018-05-25 02:29:46

Local clock offset: 0.207 ms

Remote clock offset: 3.338 ms

# Below is generated by plot.py at 2018-05-25 05:08:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.82 Mbit/s

95th percentile per-packet one-way delay: 39.949 ms

Loss rate: 0.16%

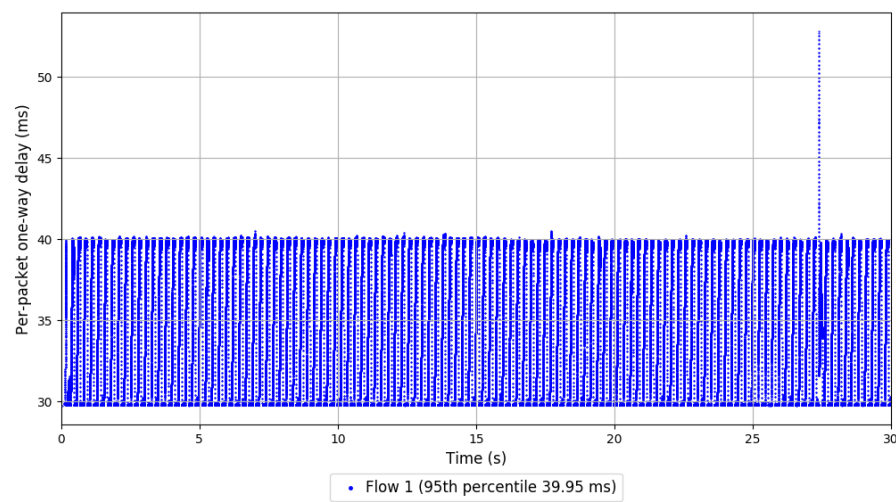
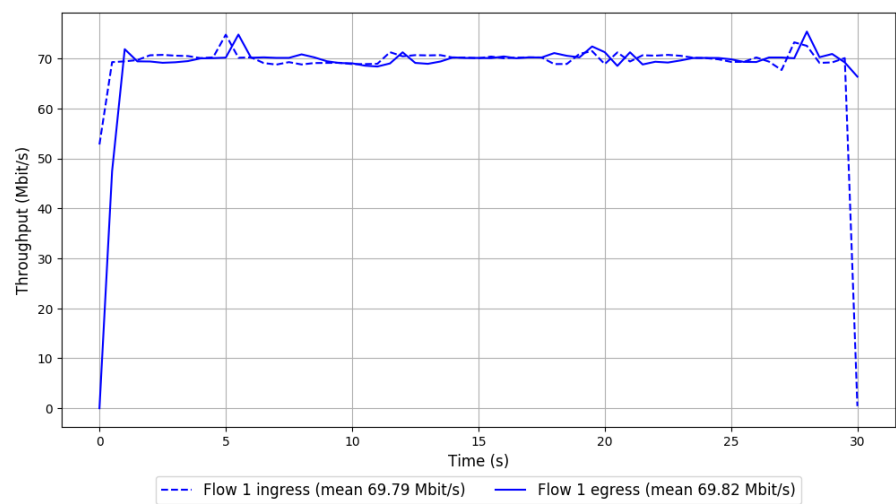
-- Flow 1:

Average throughput: 69.82 Mbit/s

95th percentile per-packet one-way delay: 39.949 ms

Loss rate: 0.16%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 02:50:04

End at: 2018-05-25 02:50:34

Local clock offset: 0.115 ms

Remote clock offset: 3.29 ms

# Below is generated by plot.py at 2018-05-25 05:08:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.02 Mbit/s

95th percentile per-packet one-way delay: 40.929 ms

Loss rate: 0.22%

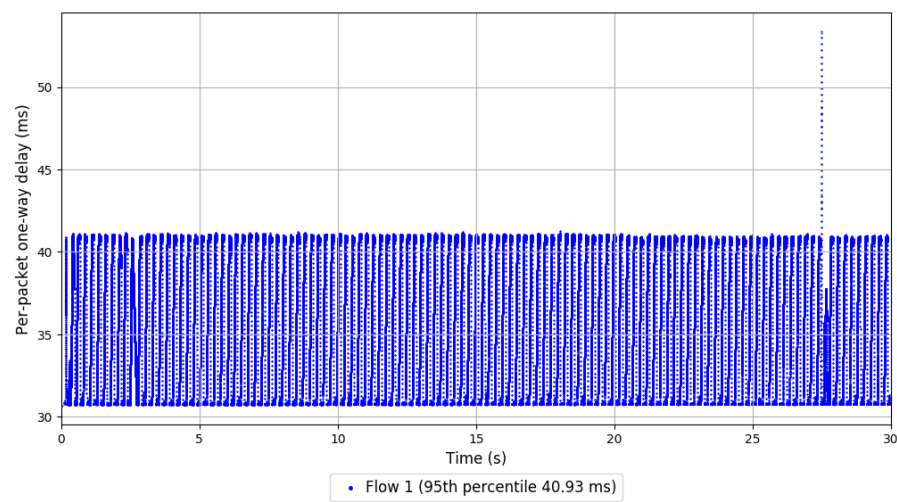
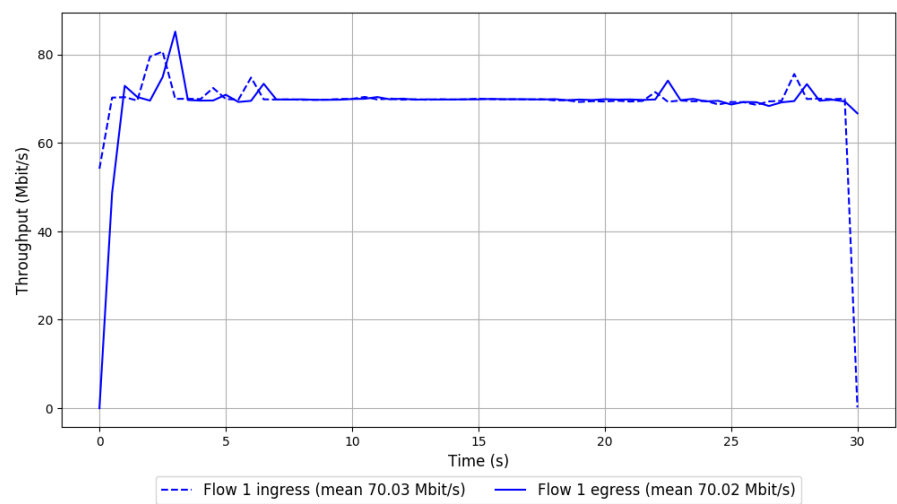
-- Flow 1:

Average throughput: 70.02 Mbit/s

95th percentile per-packet one-way delay: 40.929 ms

Loss rate: 0.22%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 03:10:53

End at: 2018-05-25 03:11:23

Local clock offset: 0.142 ms

Remote clock offset: 2.075 ms

# Below is generated by plot.py at 2018-05-25 05:08:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 40.034 ms

Loss rate: 0.17%

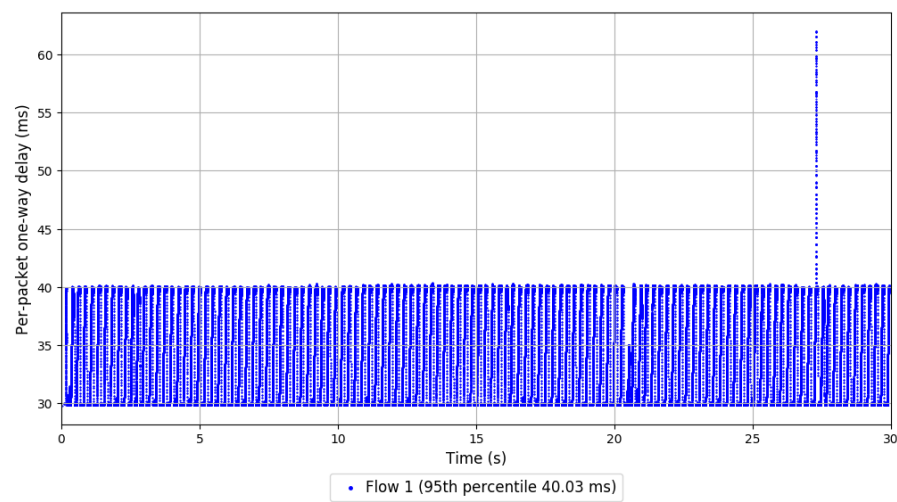
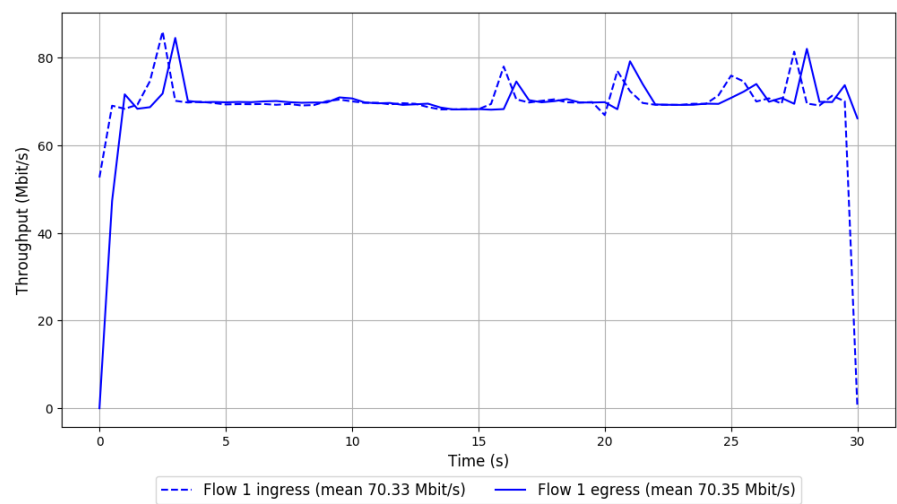
-- Flow 1:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 40.034 ms

Loss rate: 0.17%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 03:31:58

End at: 2018-05-25 03:32:28

Local clock offset: 0.109 ms

Remote clock offset: 1.641 ms

# Below is generated by plot.py at 2018-05-25 05:08:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.43 Mbit/s

95th percentile per-packet one-way delay: 36.028 ms

Loss rate: 0.12%

-- Flow 1:

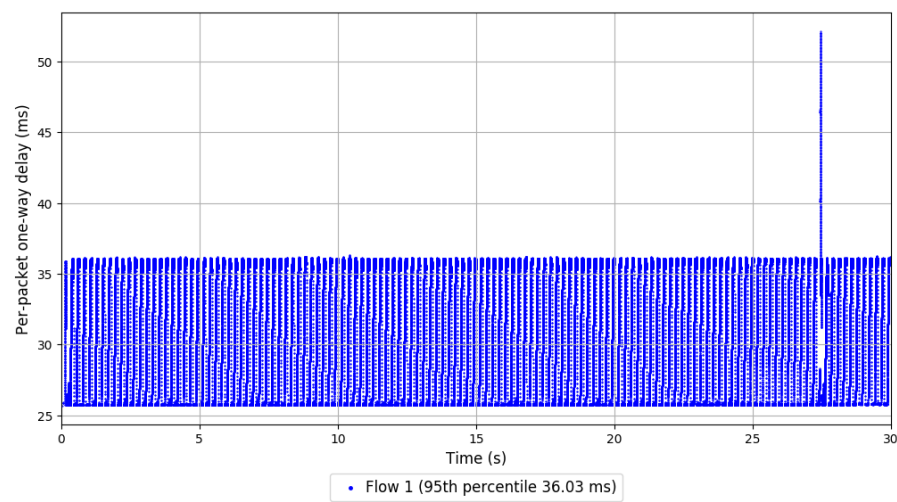
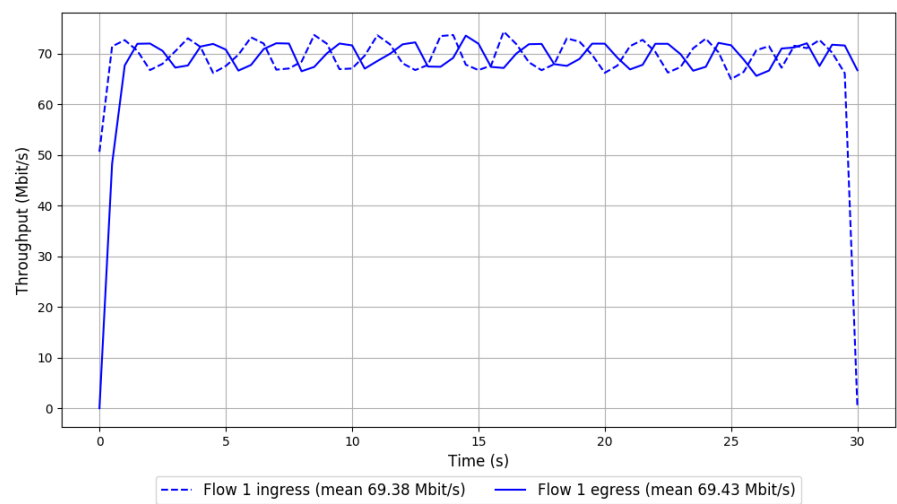
Average throughput: 69.43 Mbit/s

95th percentile per-packet one-way delay: 36.028 ms

Loss rate: 0.12%



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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 03:52:40

End at: 2018-05-25 03:53:10

Local clock offset: -0.049 ms

Remote clock offset: 2.03 ms

# Below is generated by plot.py at 2018-05-25 05:08:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 41.513 ms

Loss rate: 0.31%

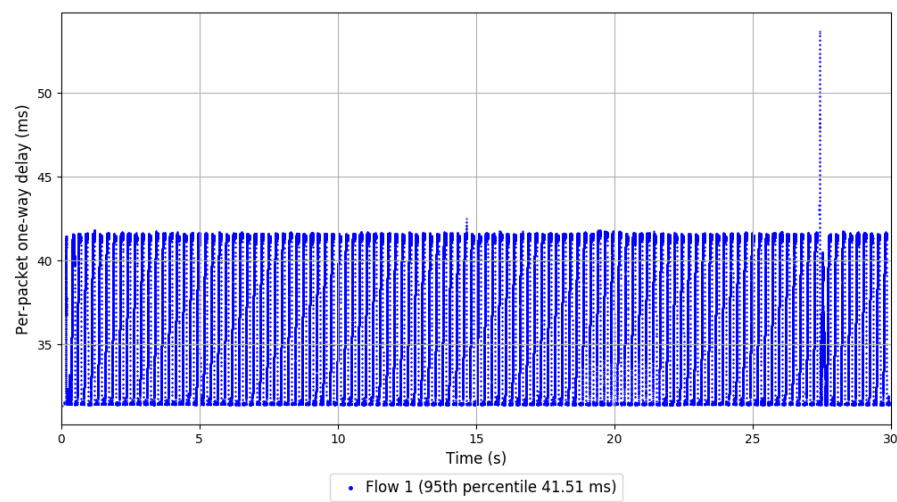
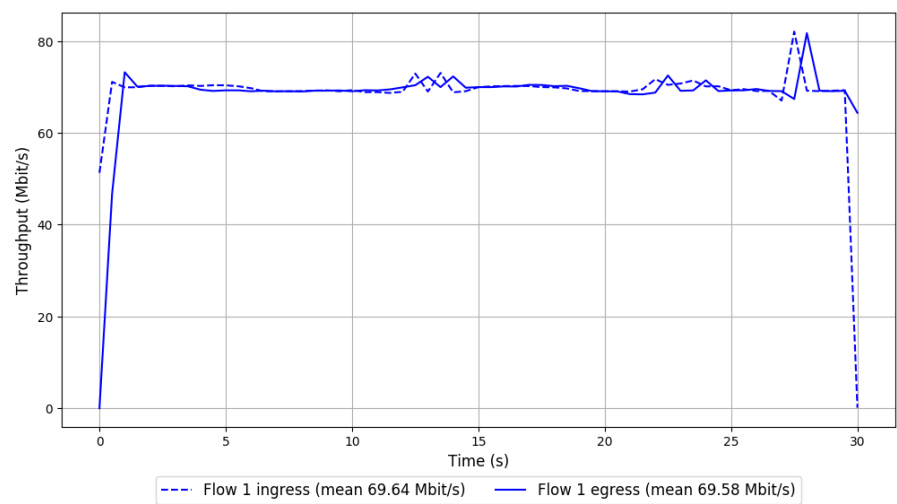
-- Flow 1:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 41.513 ms

Loss rate: 0.31%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 04:13:41

End at: 2018-05-25 04:14:11

Local clock offset: 0.617 ms

Remote clock offset: 2.333 ms

# Below is generated by plot.py at 2018-05-25 05:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 36.009 ms

Loss rate: 0.25%

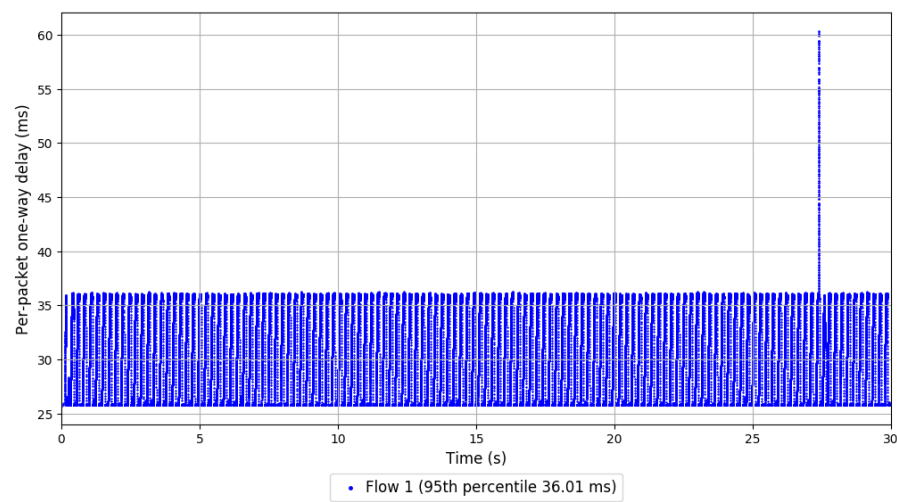
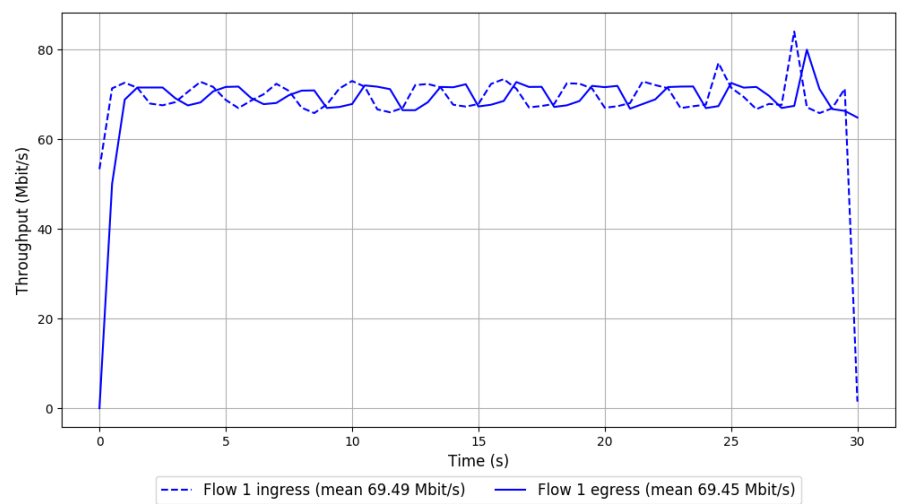
-- Flow 1:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 36.009 ms

Loss rate: 0.25%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 04:34:30

End at: 2018-05-25 04:35:00

Local clock offset: 0.184 ms

Remote clock offset: 2.925 ms

# Below is generated by plot.py at 2018-05-25 05:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.41 Mbit/s

95th percentile per-packet one-way delay: 40.525 ms

Loss rate: 0.12%

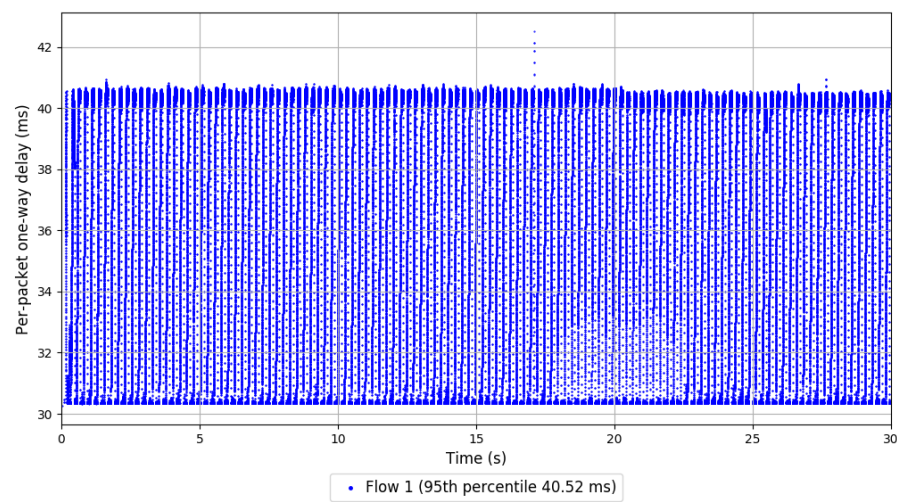
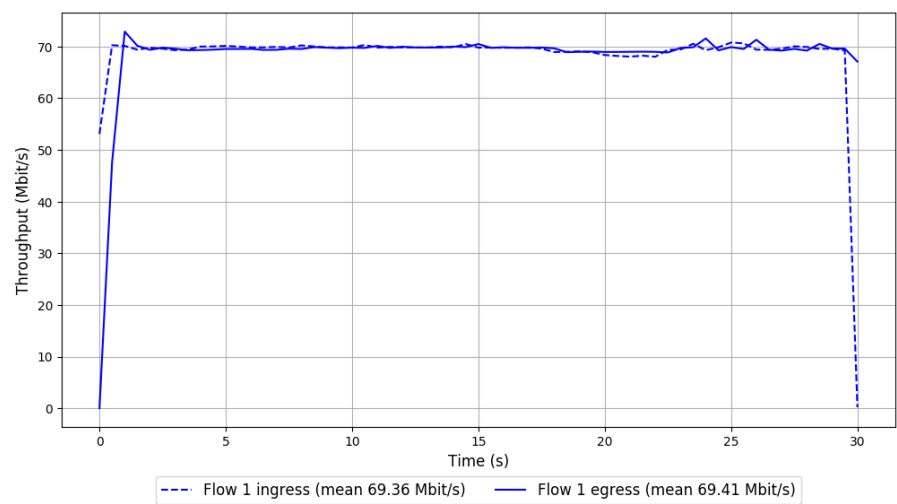
-- Flow 1:

Average throughput: 69.41 Mbit/s

95th percentile per-packet one-way delay: 40.525 ms

Loss rate: 0.12%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 01:36:05

End at: 2018-05-25 01:36:35

Local clock offset: 0.563 ms

Remote clock offset: 3.382 ms

# Below is generated by plot.py at 2018-05-25 05:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 26.901 ms

Loss rate: 0.19%

-- Flow 1:

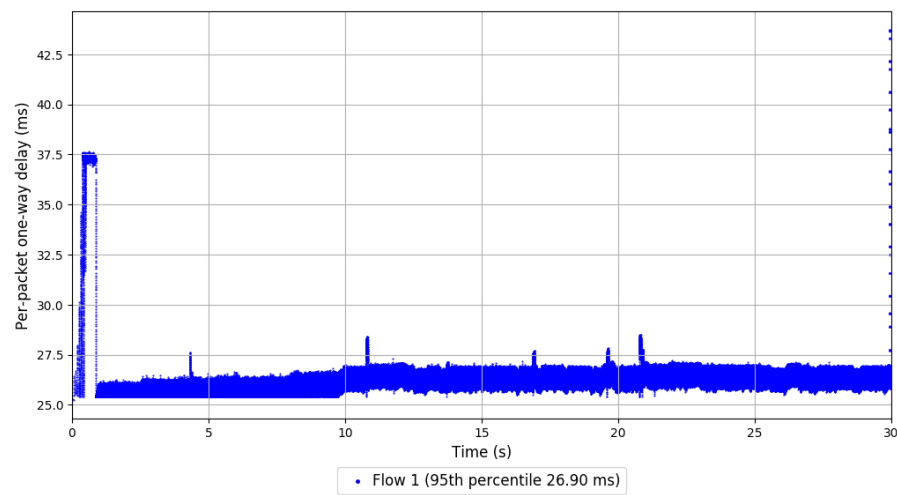
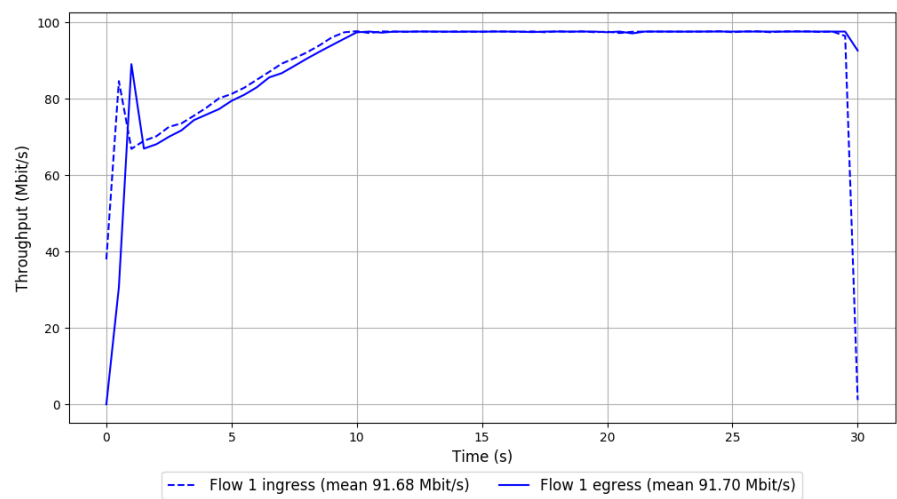
Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 26.901 ms

Loss rate: 0.19%



Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 01:56:50

End at: 2018-05-25 01:57:20

Local clock offset: 0.395 ms

Remote clock offset: 3.175 ms

# Below is generated by plot.py at 2018-05-25 05:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.23 Mbit/s

95th percentile per-packet one-way delay: 32.897 ms

Loss rate: 0.23%

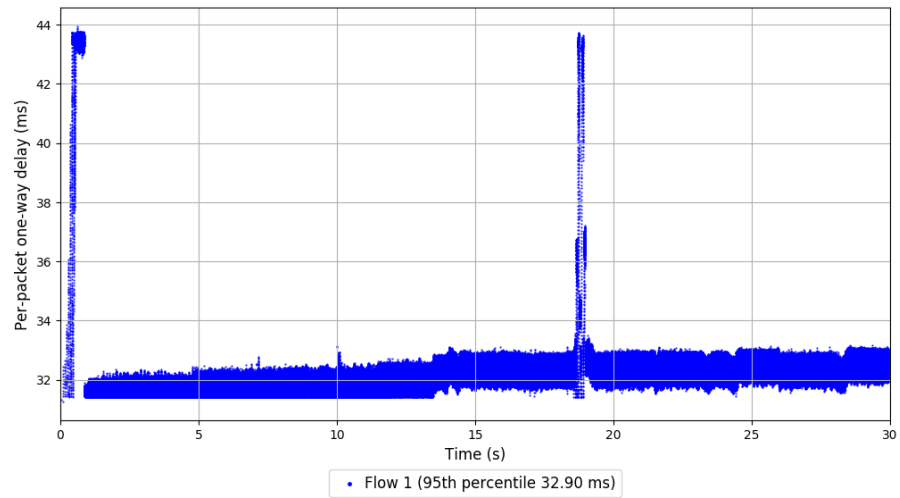
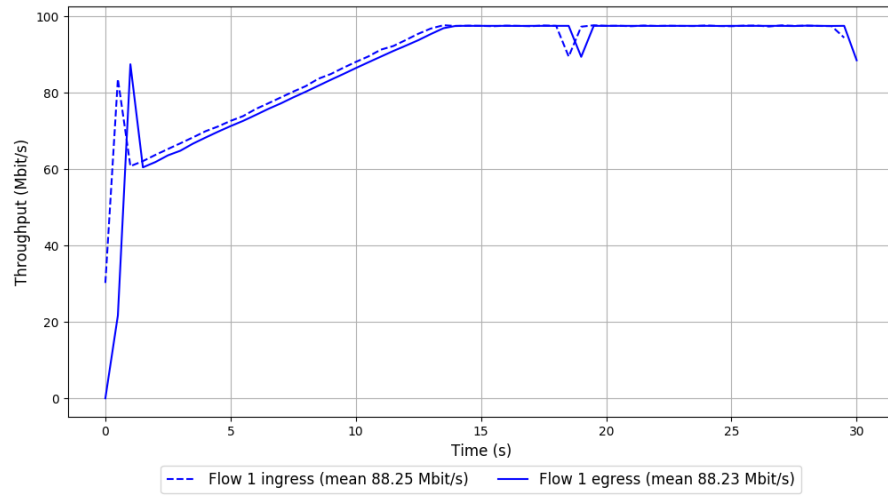
-- Flow 1:

Average throughput: 88.23 Mbit/s

95th percentile per-packet one-way delay: 32.897 ms

Loss rate: 0.23%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 02:17:37

End at: 2018-05-25 02:18:07

Local clock offset: 0.354 ms

Remote clock offset: 3.646 ms

# Below is generated by plot.py at 2018-05-25 05:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 31.112 ms

Loss rate: 0.22%

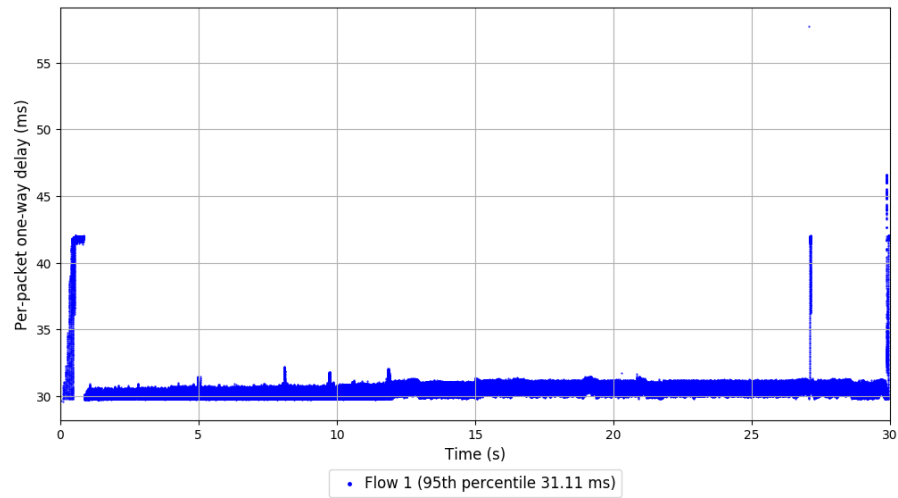
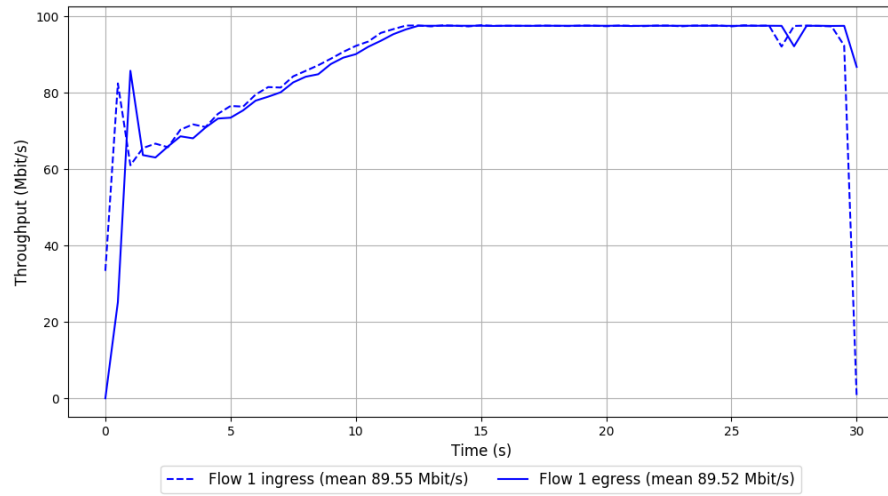
-- Flow 1:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 31.112 ms

Loss rate: 0.22%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 02:38:24

End at: 2018-05-25 02:38:54

Local clock offset: 0.184 ms

Remote clock offset: 3.341 ms

# Below is generated by plot.py at 2018-05-25 05:09:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 31.224 ms

Loss rate: 0.13%

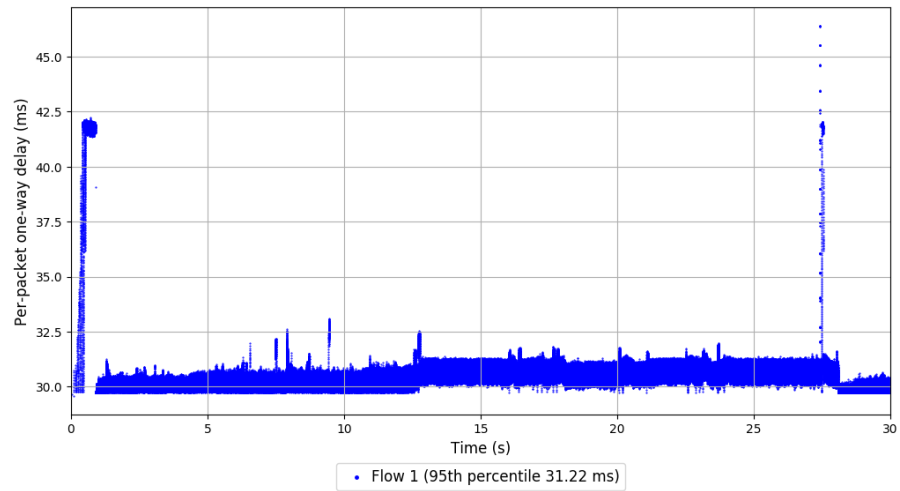
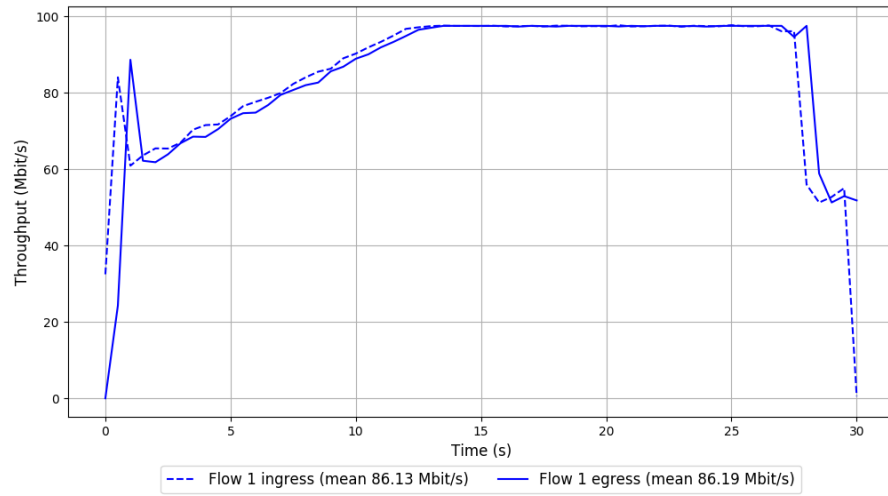
-- Flow 1:

Average throughput: 86.19 Mbit/s

95th percentile per-packet one-way delay: 31.224 ms

Loss rate: 0.13%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 02:59:12

End at: 2018-05-25 02:59:42

Local clock offset: 0.161 ms

Remote clock offset: 3.05 ms

# Below is generated by plot.py at 2018-05-25 05:09:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.67 Mbit/s

95th percentile per-packet one-way delay: 27.150 ms

Loss rate: 0.20%

-- Flow 1:

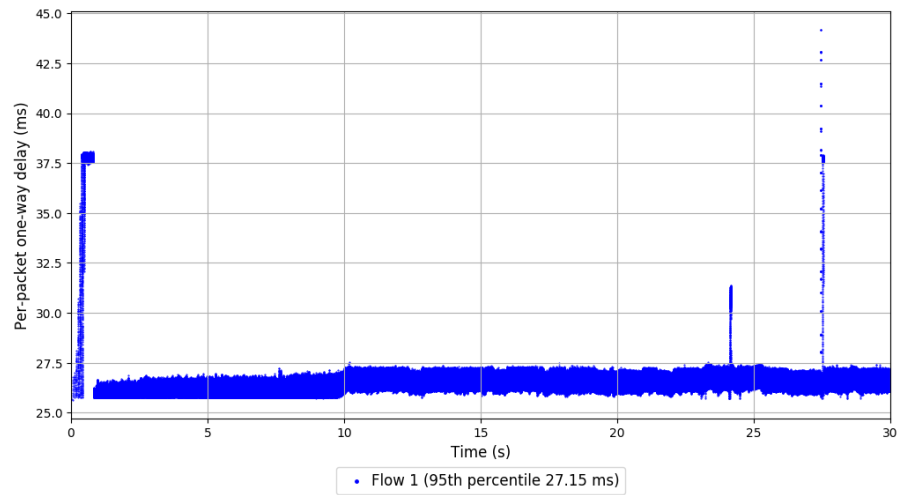
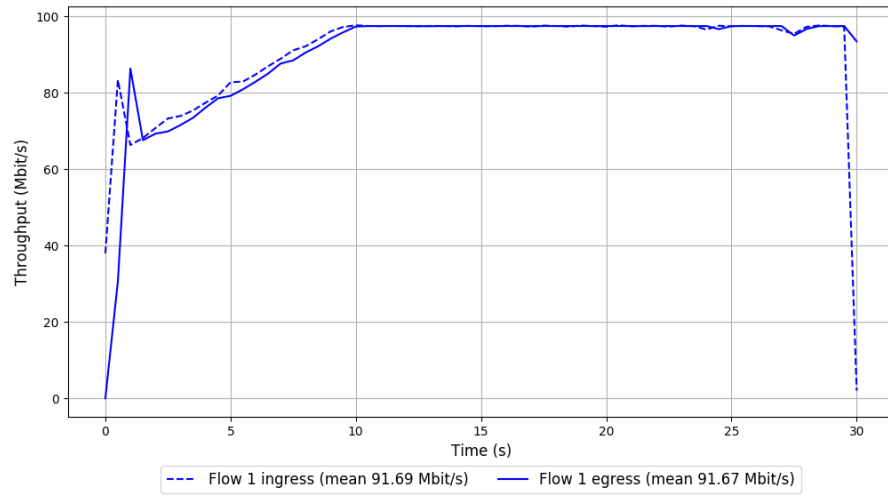
Average throughput: 91.67 Mbit/s

95th percentile per-packet one-way delay: 27.150 ms

Loss rate: 0.20%



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



Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 03:20:03

End at: 2018-05-25 03:20:33

Local clock offset: 0.073 ms

Remote clock offset: 1.849 ms

# Below is generated by plot.py at 2018-05-25 05:09:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 32.955 ms

Loss rate: 0.23%

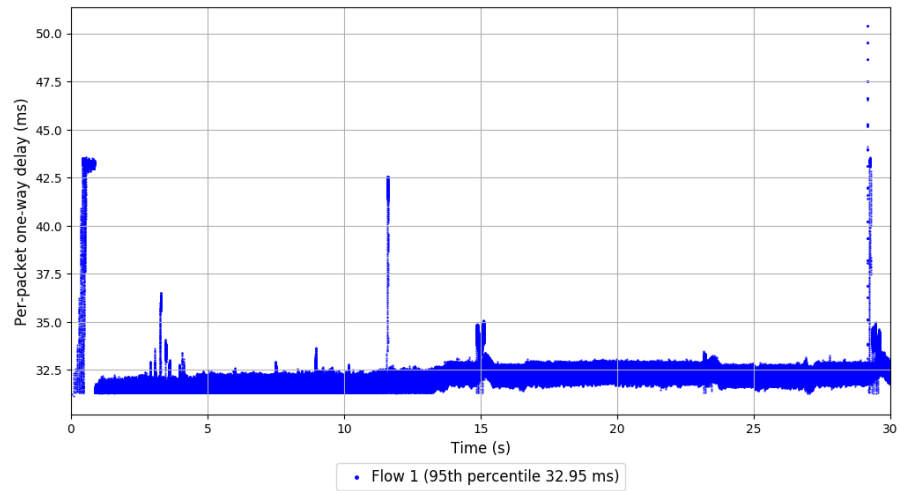
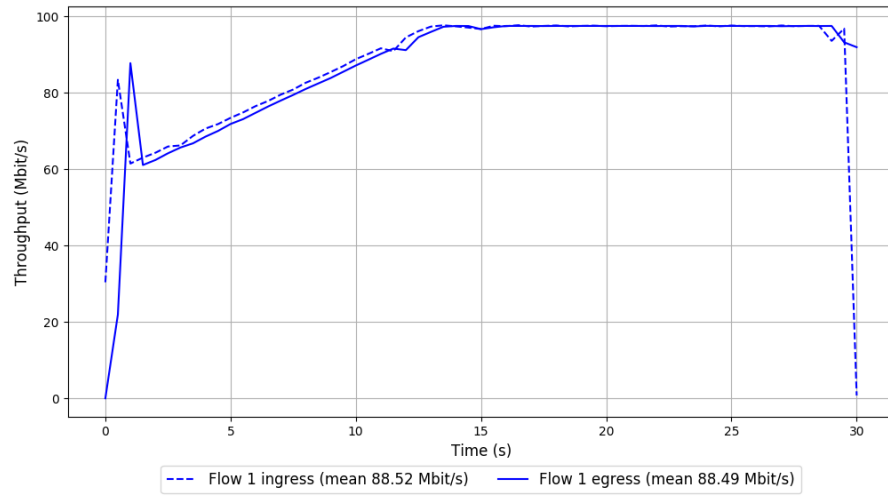
-- Flow 1:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 32.955 ms

Loss rate: 0.23%

# Run 6: Report of TCP Vegas — Data Link

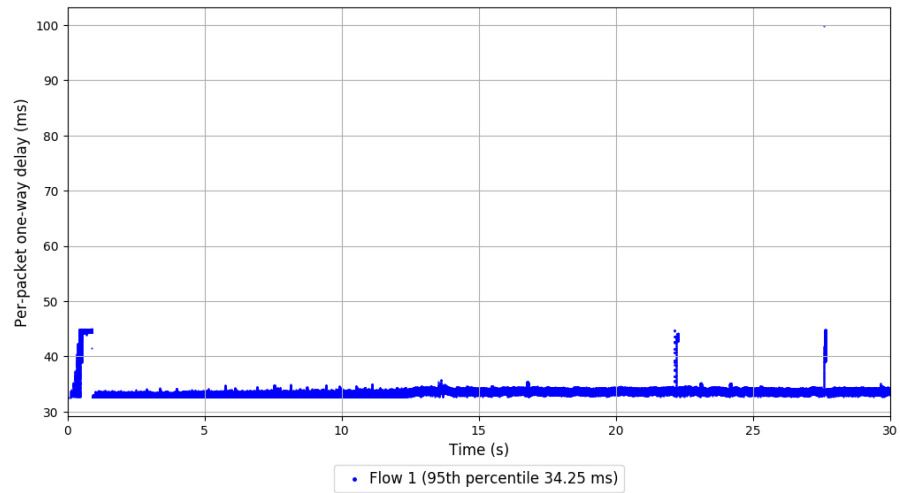
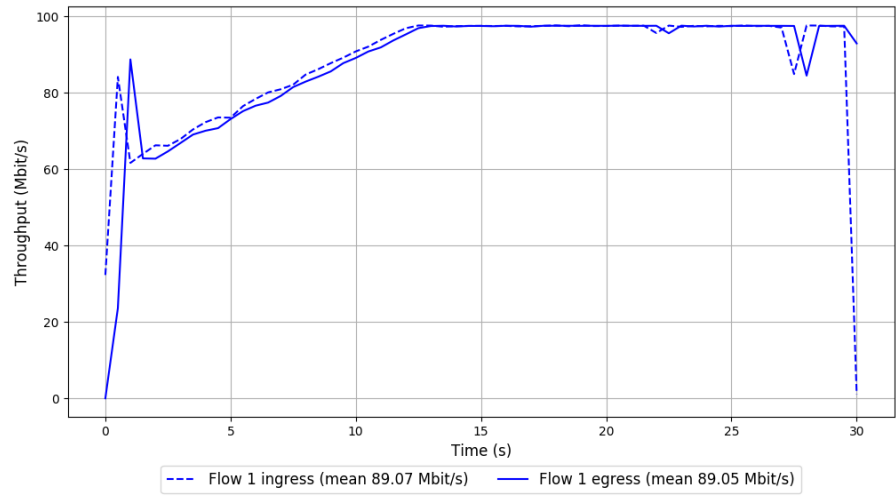


Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 03:41:02  
End at: 2018-05-25 03:41:32  
Local clock offset: -0.019 ms  
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2018-05-25 05:10:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.05 Mbit/s  
95th percentile per-packet one-way delay: 34.250 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 89.05 Mbit/s  
95th percentile per-packet one-way delay: 34.250 ms  
Loss rate: 0.23%

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



Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 04:01:46

End at: 2018-05-25 04:02:16

Local clock offset: 0.356 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2018-05-25 05:10:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 29.896 ms

Loss rate: 0.21%

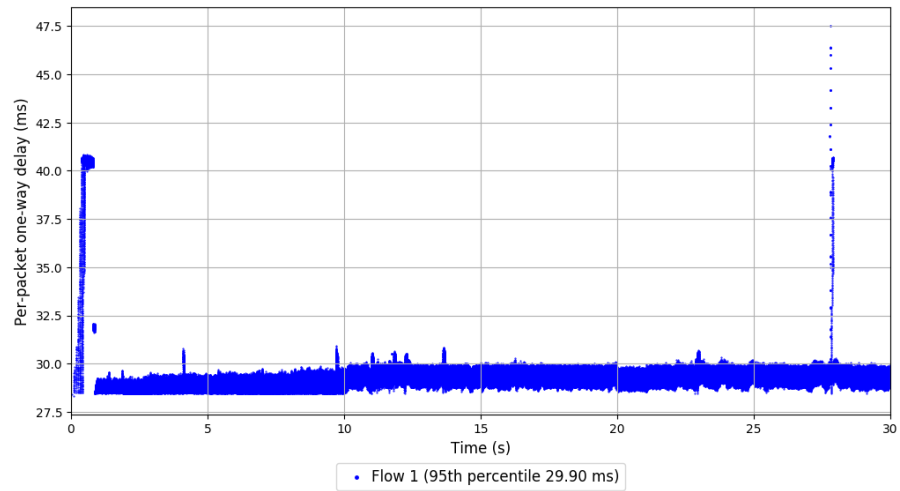
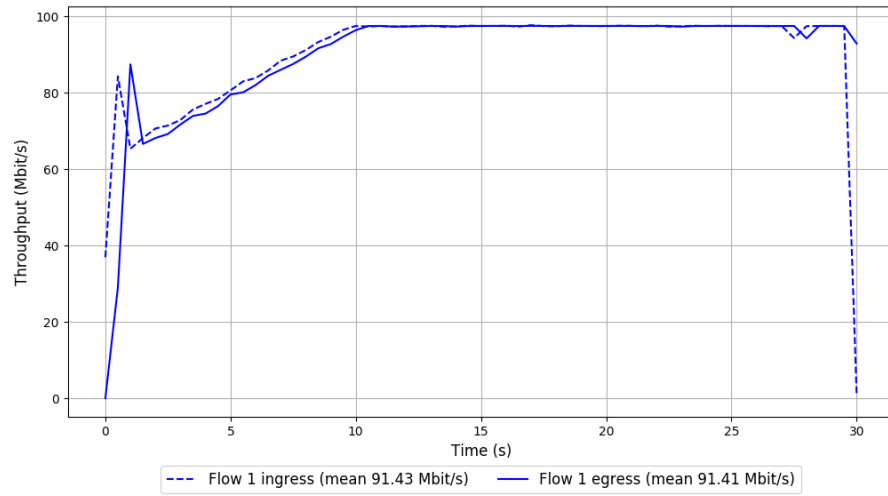
-- Flow 1:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 29.896 ms

Loss rate: 0.21%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 04:22:49

End at: 2018-05-25 04:23:19

Local clock offset: 0.726 ms

Remote clock offset: 2.493 ms

# Below is generated by plot.py at 2018-05-25 05:10:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 31.264 ms

Loss rate: 0.22%

-- Flow 1:

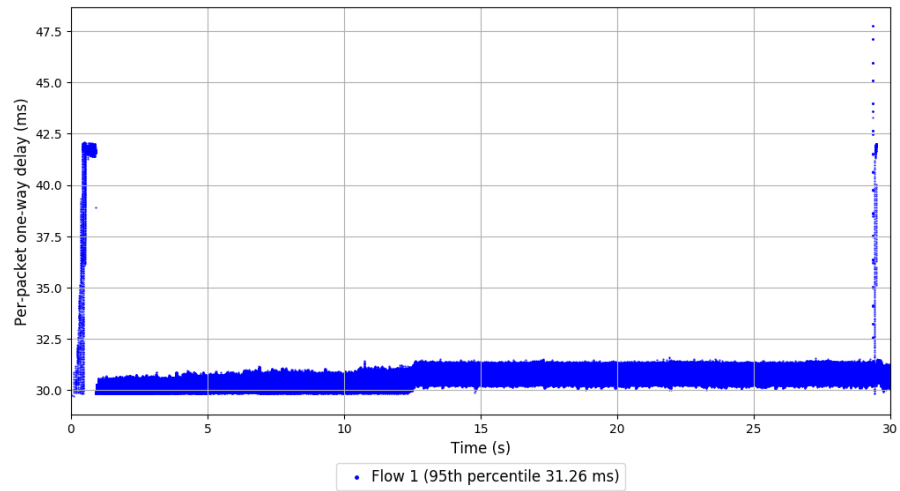
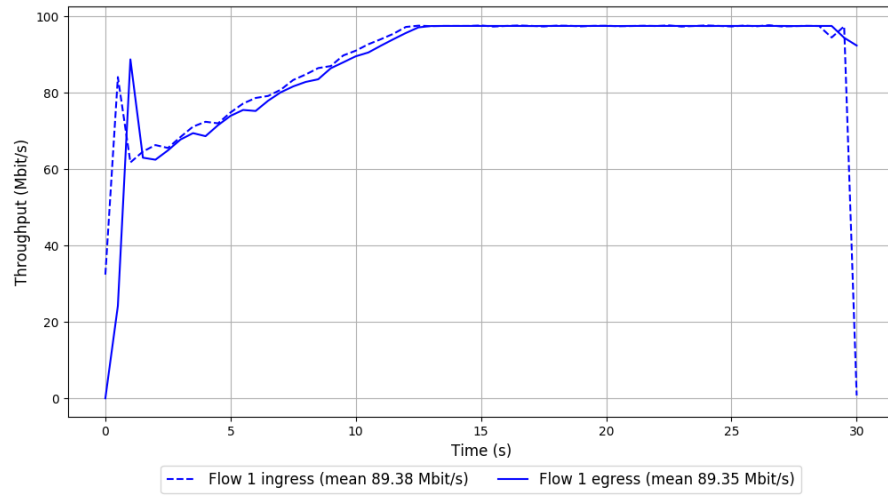
Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 31.264 ms

Loss rate: 0.22%



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

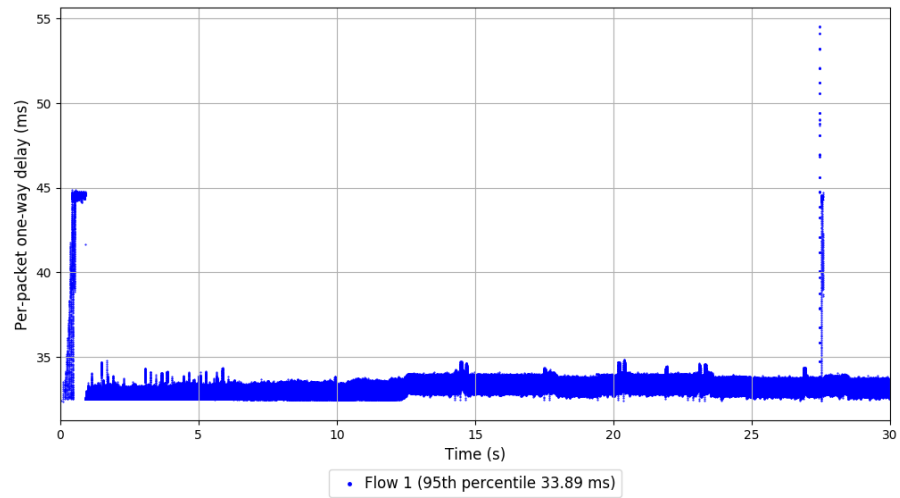
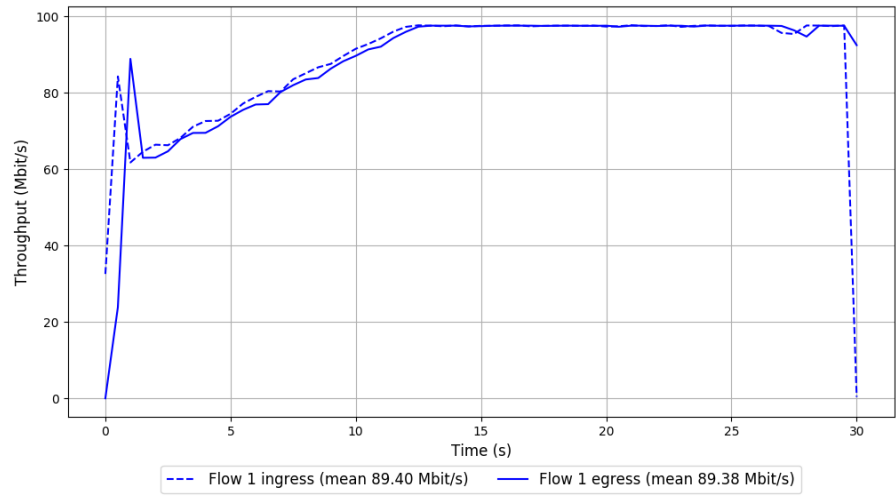


Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 04:43:38  
End at: 2018-05-25 04:44:08  
Local clock offset: -0.044 ms  
Remote clock offset: -0.858 ms

# Below is generated by plot.py at 2018-05-25 05:10:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.38 Mbit/s  
95th percentile per-packet one-way delay: 33.887 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 89.38 Mbit/s  
95th percentile per-packet one-way delay: 33.887 ms  
Loss rate: 0.23%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-25 01:41:15

End at: 2018-05-25 01:41:45

Local clock offset: 0.512 ms

Remote clock offset: 3.13 ms

# Below is generated by plot.py at 2018-05-25 05:10:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.604 ms

Loss rate: 0.00%

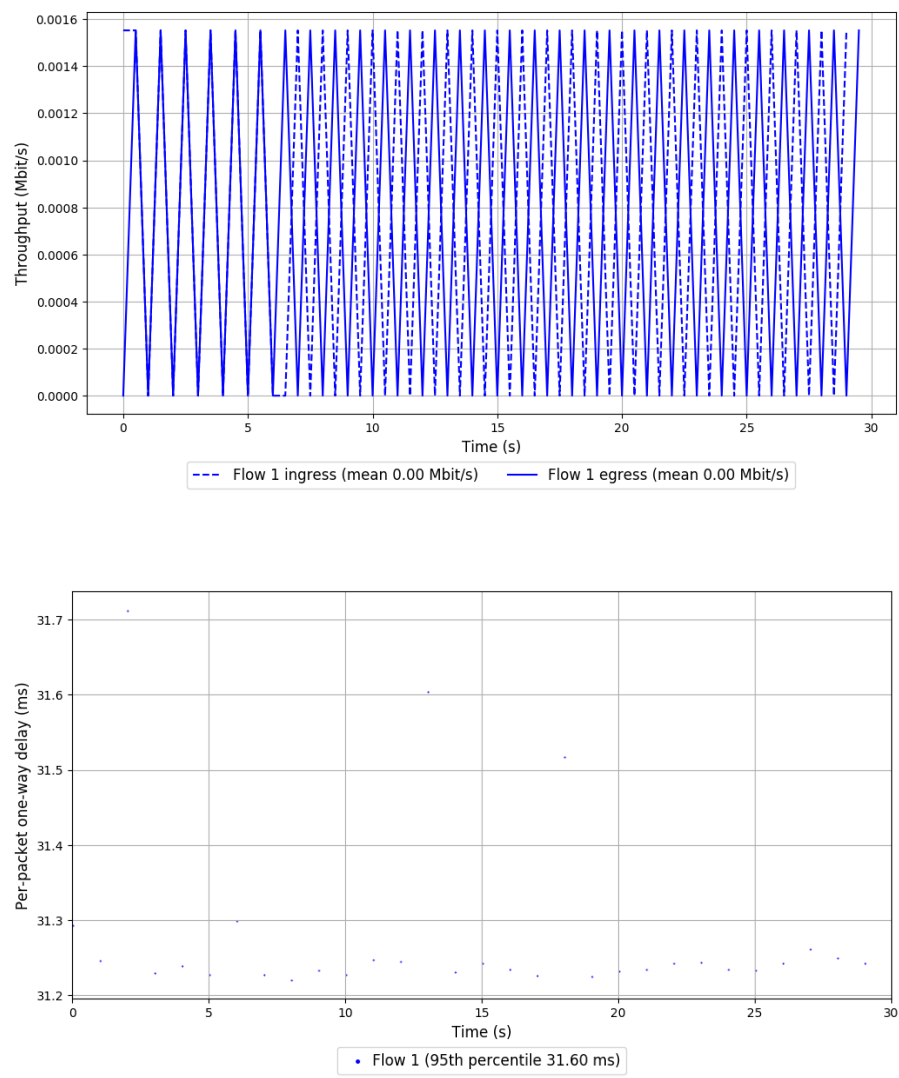
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 31.604 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-25 02:02:01

End at: 2018-05-25 02:02:31

Local clock offset: 0.296 ms

Remote clock offset: 3.252 ms

# Below is generated by plot.py at 2018-05-25 05:10:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.721 ms

Loss rate: 0.00%

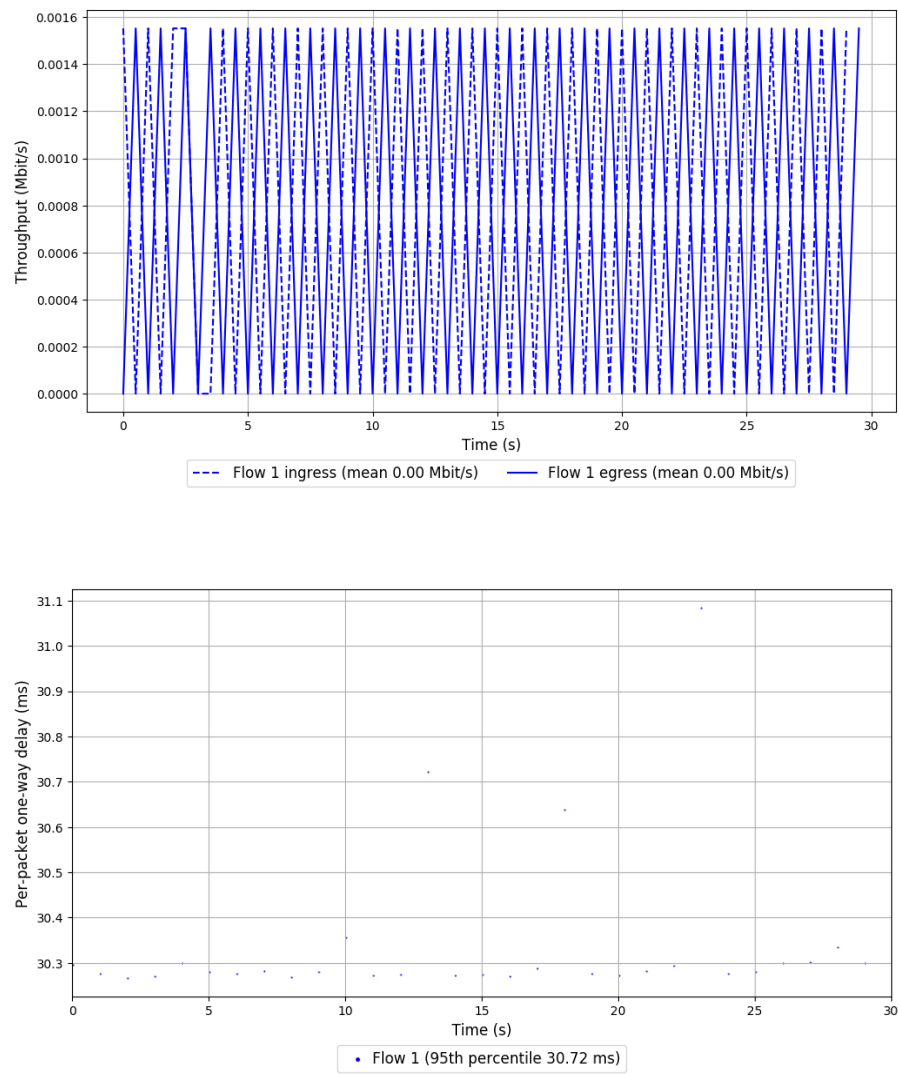
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.721 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-25 02:22:48

End at: 2018-05-25 02:23:18

Local clock offset: 0.391 ms

Remote clock offset: 4.182 ms

# Below is generated by plot.py at 2018-05-25 05:10:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 29.469 ms

Loss rate: 0.00%

-- Flow 1:

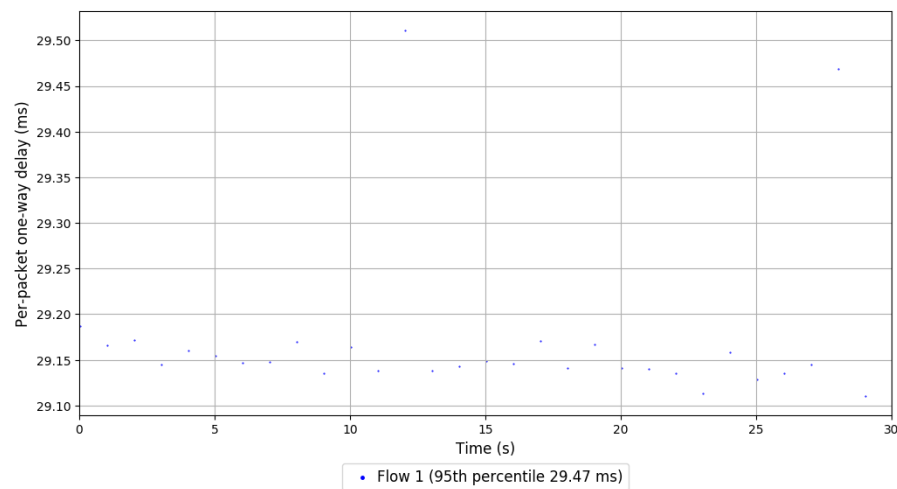
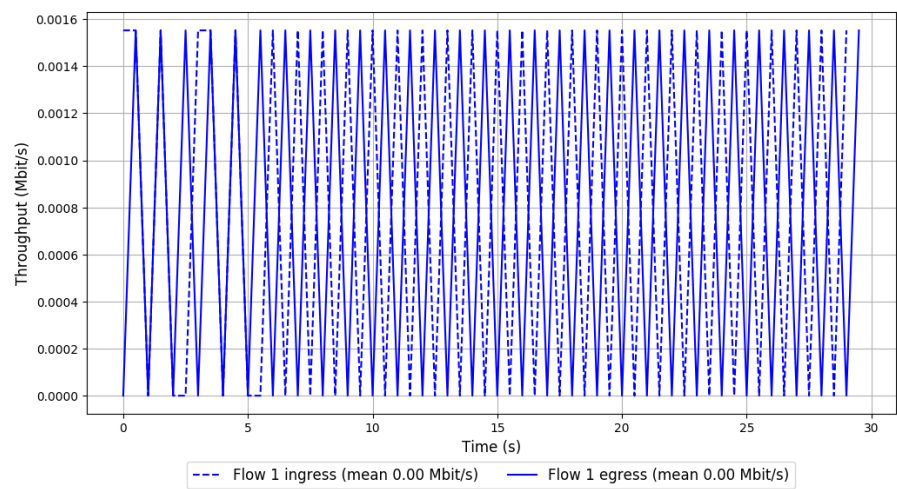
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 29.469 ms

Loss rate: 0.00%



Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-25 02:43:35

End at: 2018-05-25 02:44:05

Local clock offset: 0.171 ms

Remote clock offset: 3.782 ms

# Below is generated by plot.py at 2018-05-25 05:10:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 29.226 ms

Loss rate: 0.00%

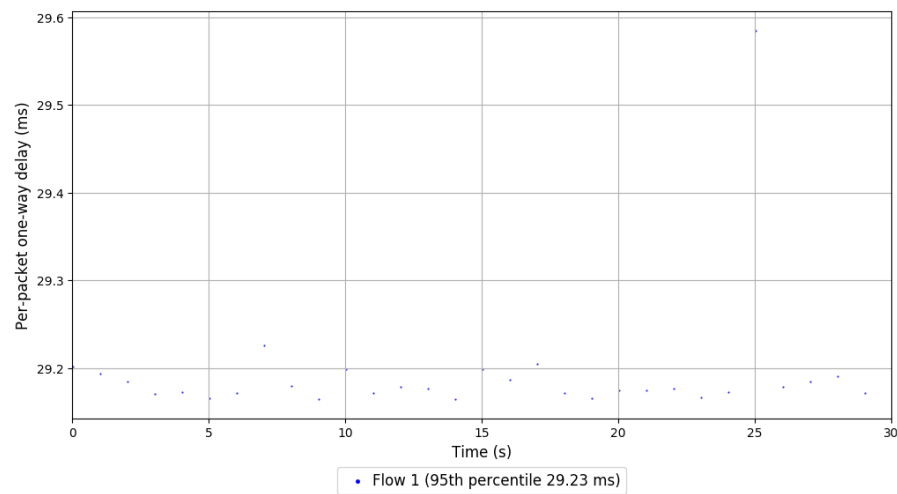
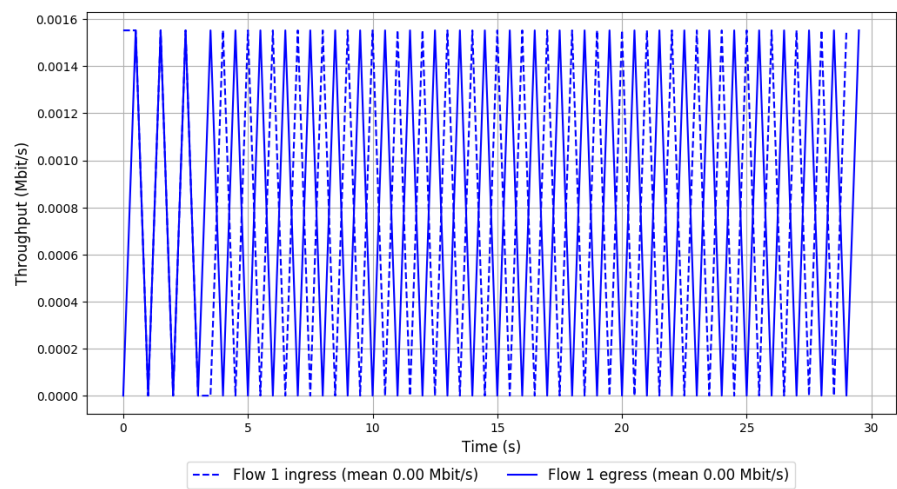
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 29.226 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-25 03:04:24

End at: 2018-05-25 03:04:54

Local clock offset: 0.167 ms

Remote clock offset: 0.465 ms

# Below is generated by plot.py at 2018-05-25 05:10:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 28.662 ms

Loss rate: 0.00%

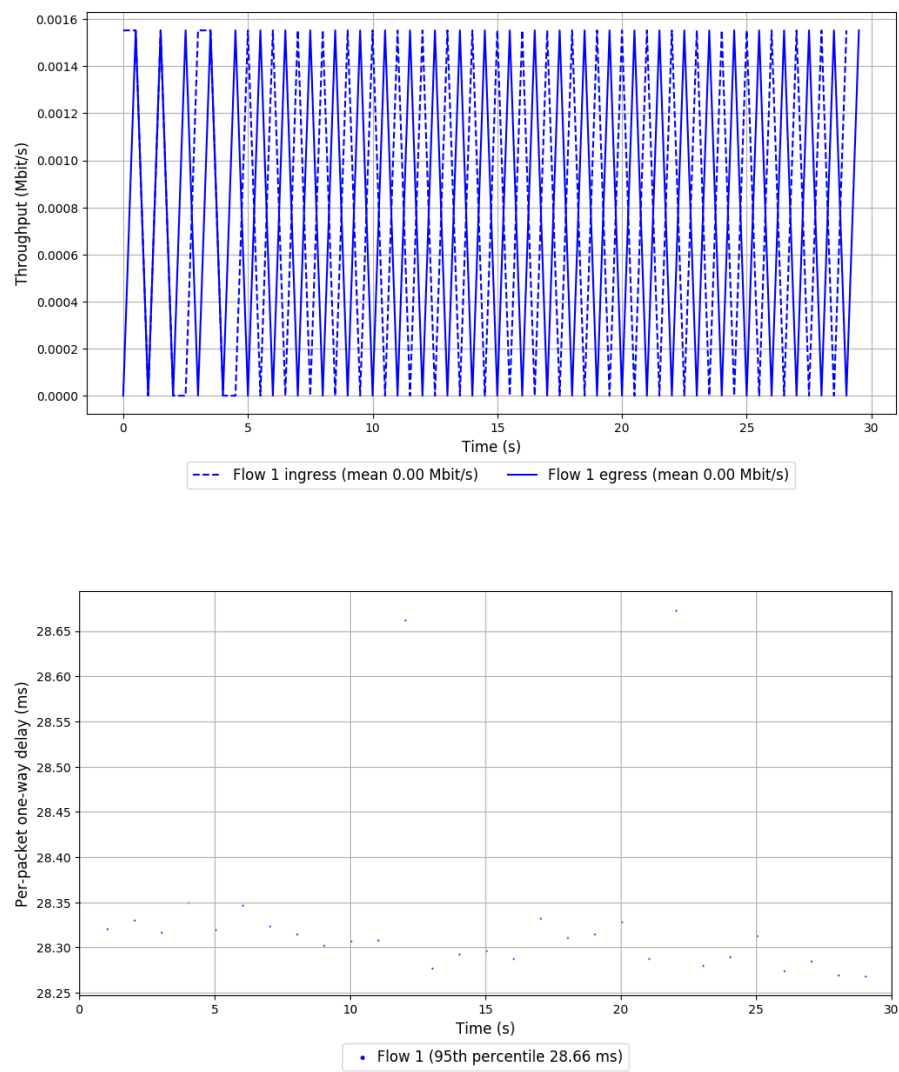
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 28.662 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-25 03:25:29

End at: 2018-05-25 03:25:59

Local clock offset: 0.065 ms

Remote clock offset: 2.162 ms

# Below is generated by plot.py at 2018-05-25 05:10:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.026 ms

Loss rate: 0.00%

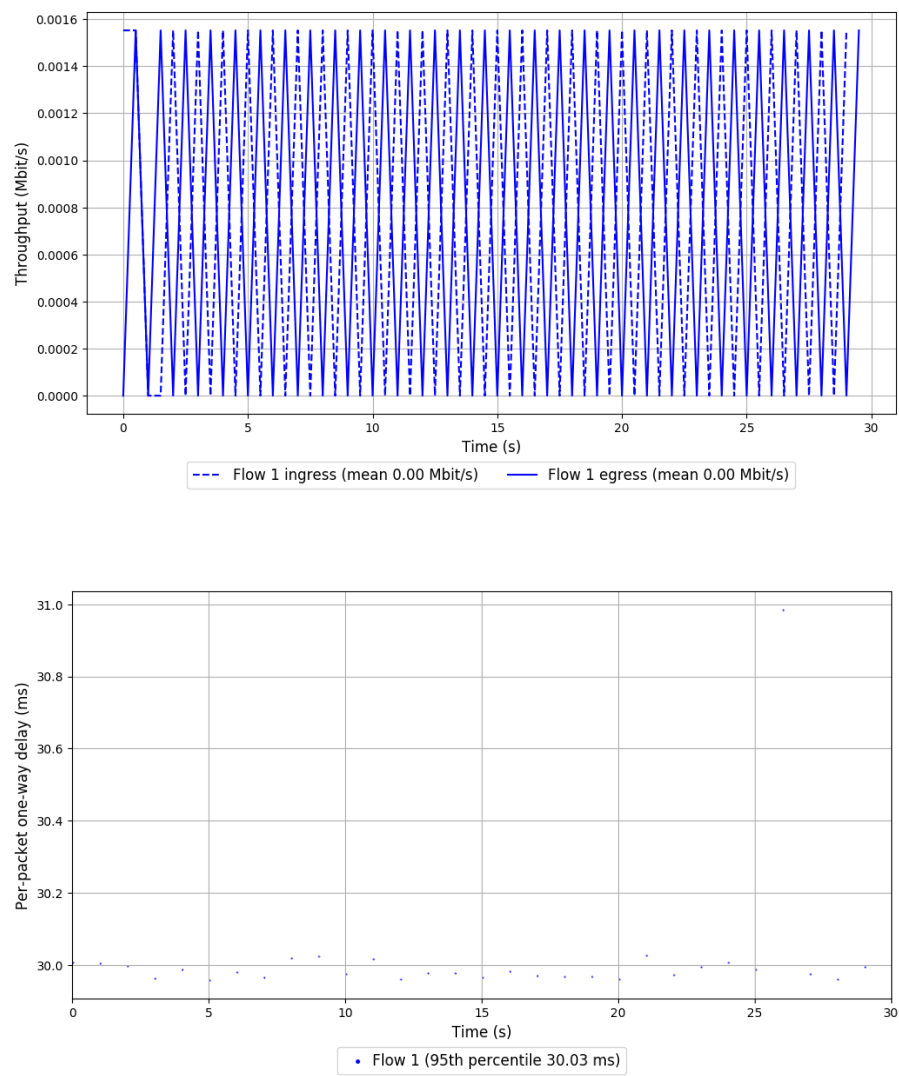
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.026 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



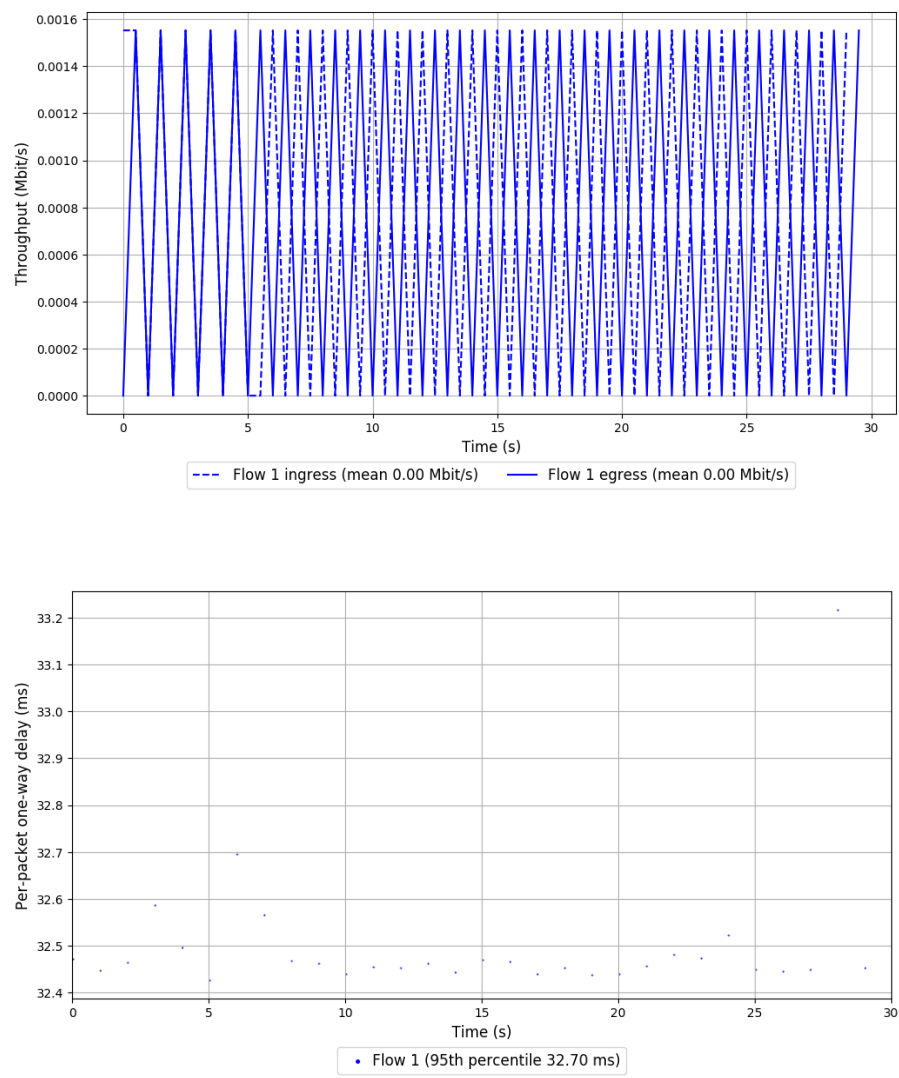
Run 7: Statistics of Verus

Start at: 2018-05-25 03:46:13  
End at: 2018-05-25 03:46:43  
Local clock offset: 0.038 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-05-25 05:10:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 32.696 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 32.696 ms  
Loss rate: 0.00%



Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-25 04:07:12

End at: 2018-05-25 04:07:42

Local clock offset: 0.504 ms

Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2018-05-25 05:10:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 32.523 ms

Loss rate: 0.00%

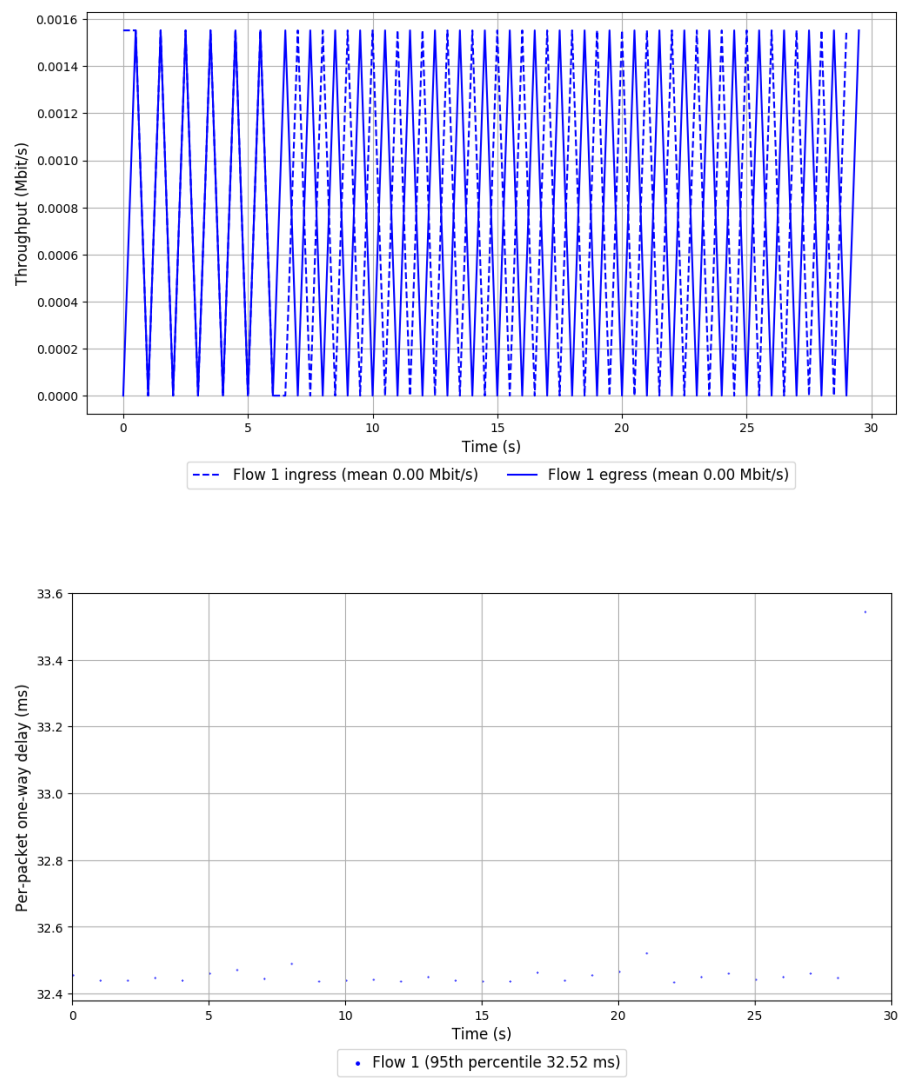
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 32.523 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-25 04:28:01

End at: 2018-05-25 04:28:31

Local clock offset: 0.531 ms

Remote clock offset: 3.027 ms

# Below is generated by plot.py at 2018-05-25 05:10:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 25.770 ms

Loss rate: 0.00%

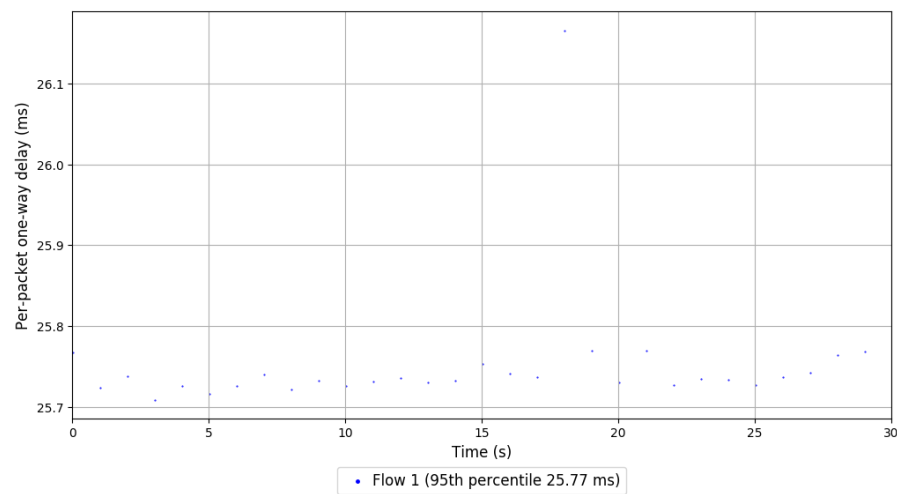
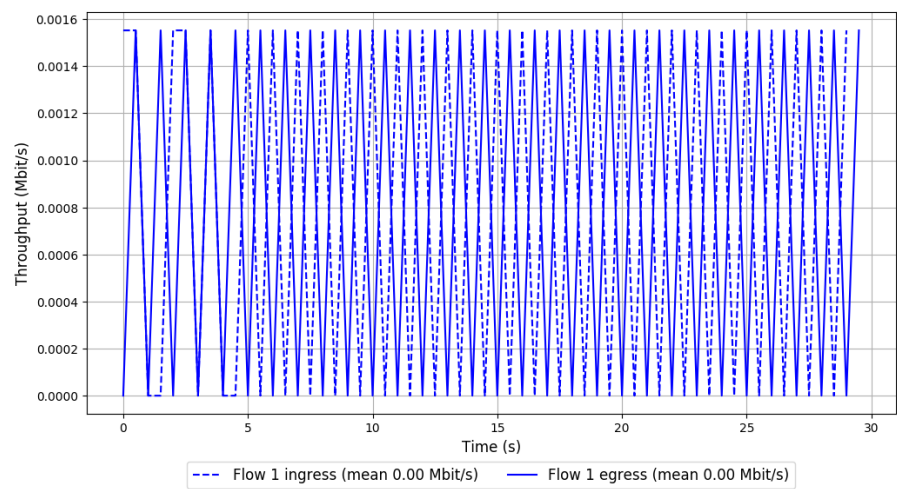
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 25.770 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-25 04:48:50

End at: 2018-05-25 04:49:20

Local clock offset: -0.096 ms

Remote clock offset: 0.572 ms

# Below is generated by plot.py at 2018-05-25 05:10:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.459 ms

Loss rate: 0.00%

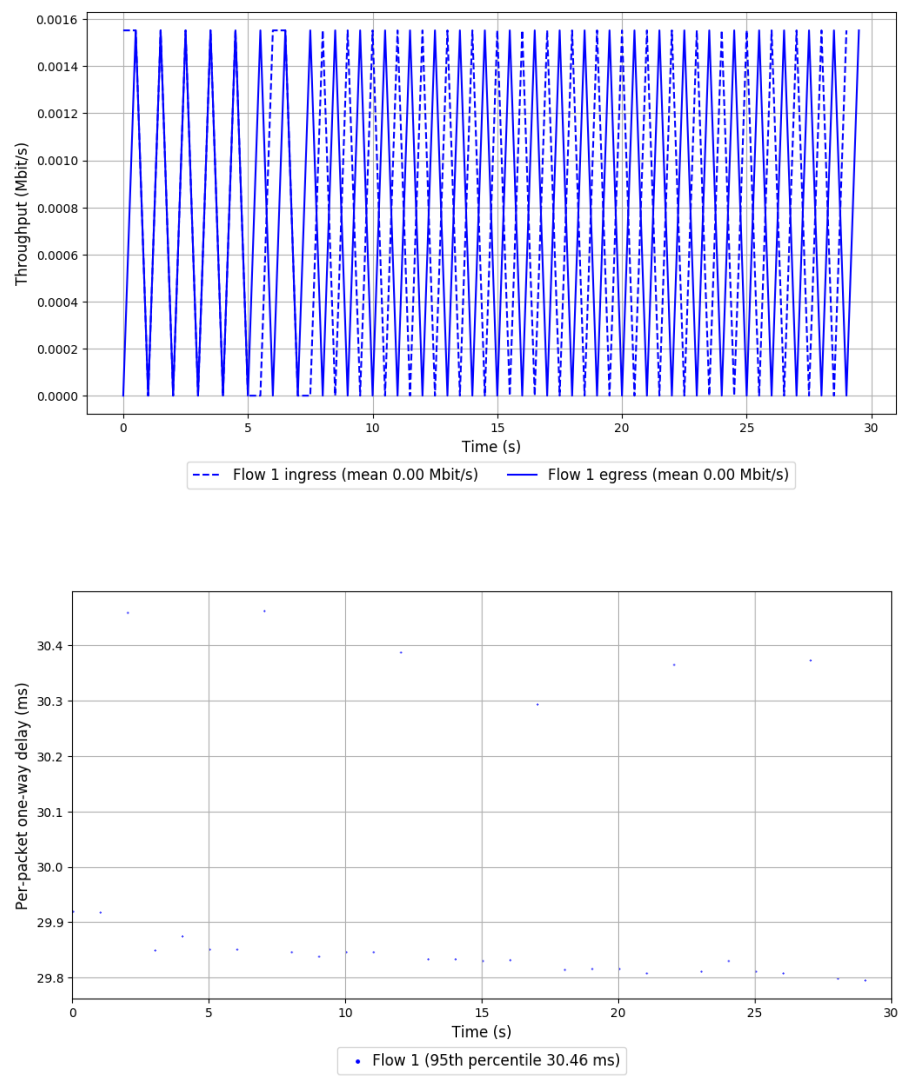
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 30.459 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 01:34:45

End at: 2018-05-25 01:35:15

Local clock offset: 0.563 ms

Remote clock offset: 0.908 ms

# Below is generated by plot.py at 2018-05-25 05:10:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 34.540 ms

Loss rate: 0.22%

-- Flow 1:

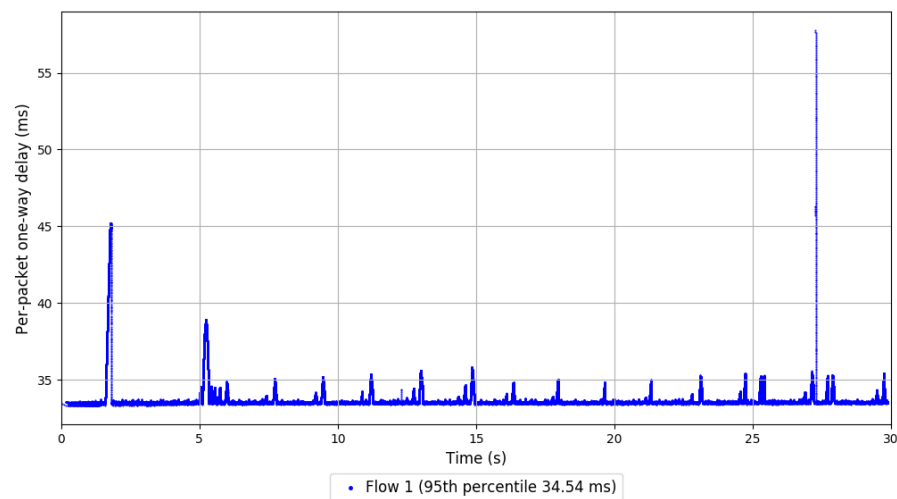
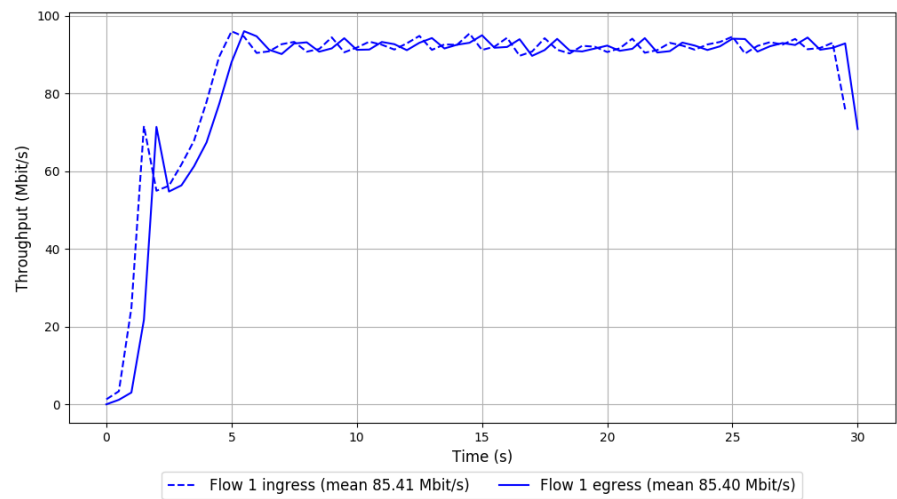
Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 34.540 ms

Loss rate: 0.22%



Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 01:55:31

End at: 2018-05-25 01:56:01

Local clock offset: 0.52 ms

Remote clock offset: 3.15 ms

# Below is generated by plot.py at 2018-05-25 05:10:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 41.316 ms

Loss rate: 0.25%

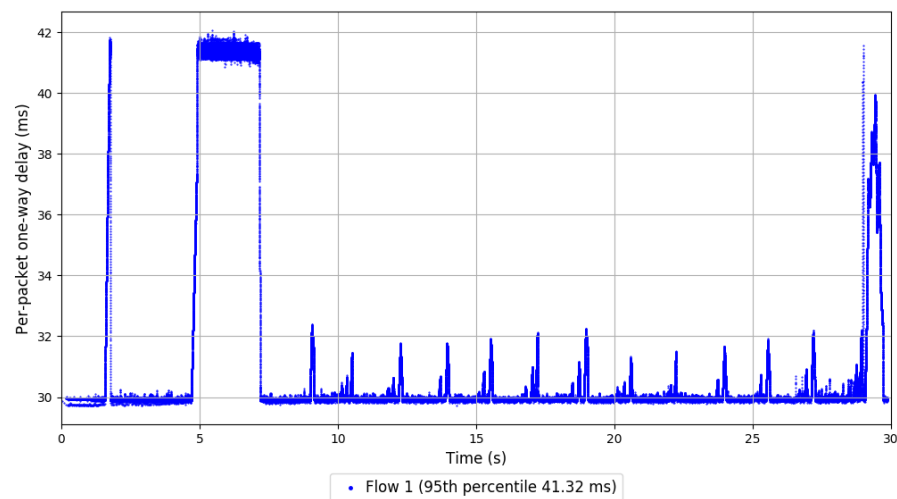
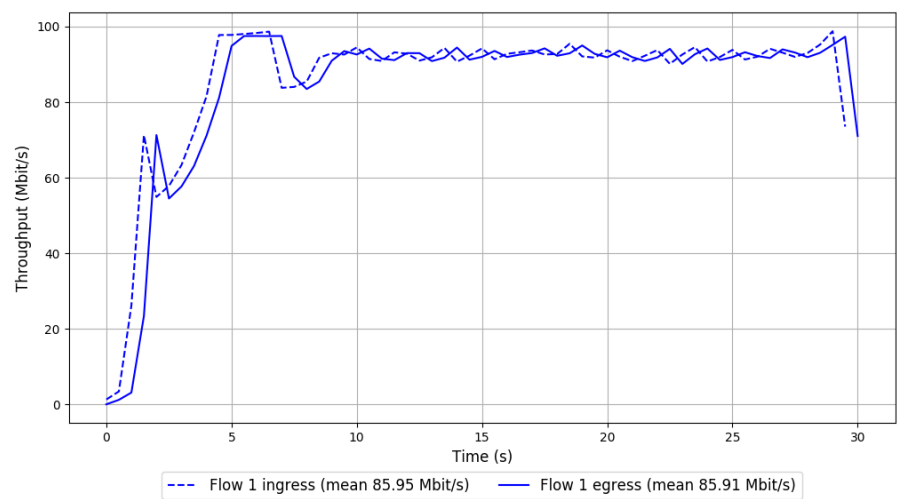
-- Flow 1:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 41.316 ms

Loss rate: 0.25%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 02:16:18

End at: 2018-05-25 02:16:48

Local clock offset: 0.367 ms

Remote clock offset: 3.489 ms

# Below is generated by plot.py at 2018-05-25 05:10:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.30 Mbit/s

95th percentile per-packet one-way delay: 28.161 ms

Loss rate: 0.21%

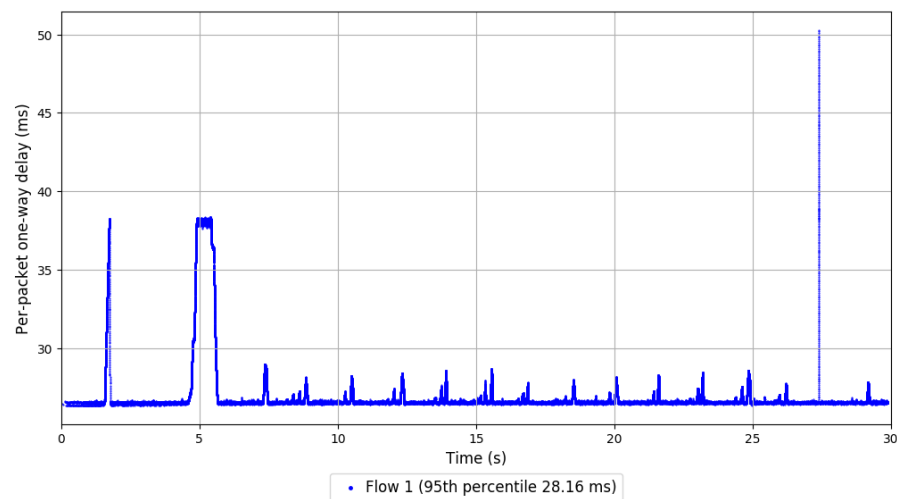
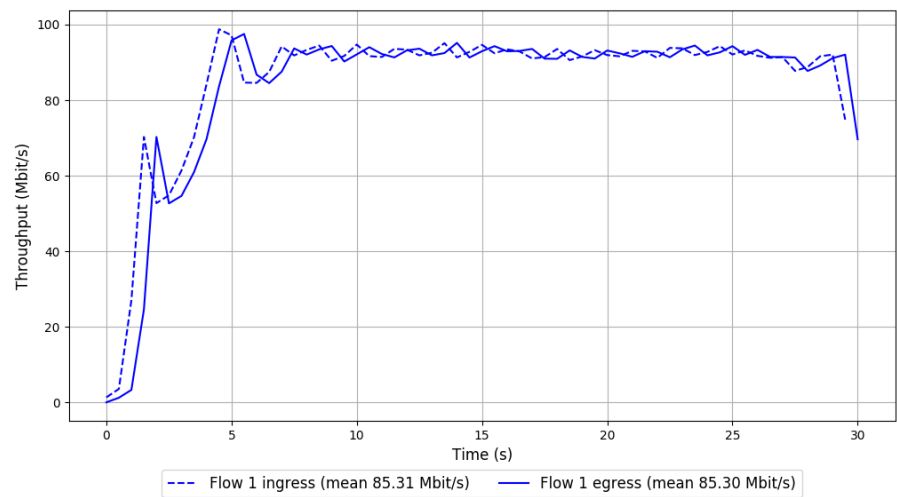
-- Flow 1:

Average throughput: 85.30 Mbit/s

95th percentile per-packet one-way delay: 28.161 ms

Loss rate: 0.21%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 02:37:04

End at: 2018-05-25 02:37:34

Local clock offset: 0.121 ms

Remote clock offset: 3.217 ms

# Below is generated by plot.py at 2018-05-25 05:11:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.70 Mbit/s

95th percentile per-packet one-way delay: 31.667 ms

Loss rate: 0.22%

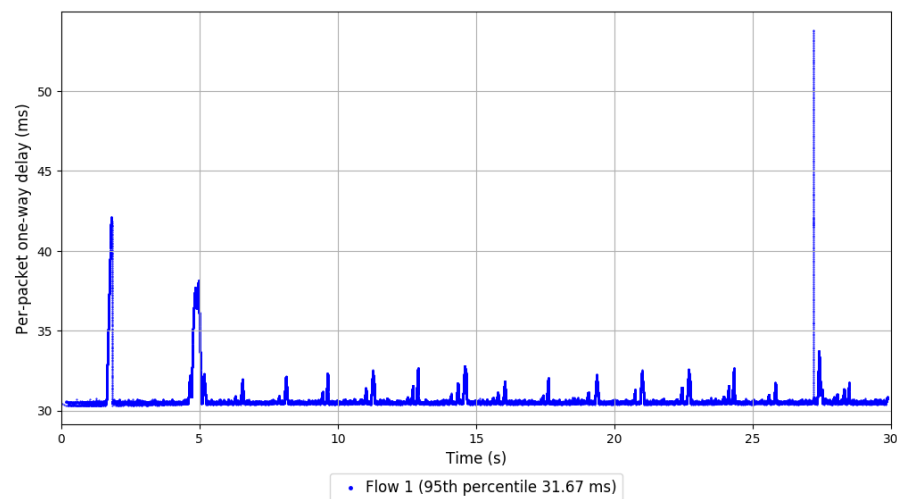
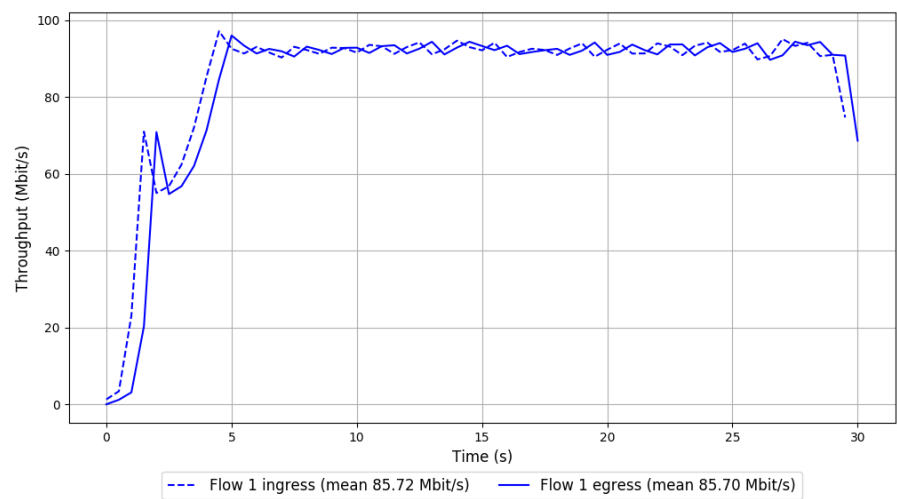
-- Flow 1:

Average throughput: 85.70 Mbit/s

95th percentile per-packet one-way delay: 31.667 ms

Loss rate: 0.22%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 02:57:52

End at: 2018-05-25 02:58:22

Local clock offset: 0.142 ms

Remote clock offset: 3.224 ms

# Below is generated by plot.py at 2018-05-25 05:11:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.21 Mbit/s

95th percentile per-packet one-way delay: 33.014 ms

Loss rate: 0.23%

-- Flow 1:

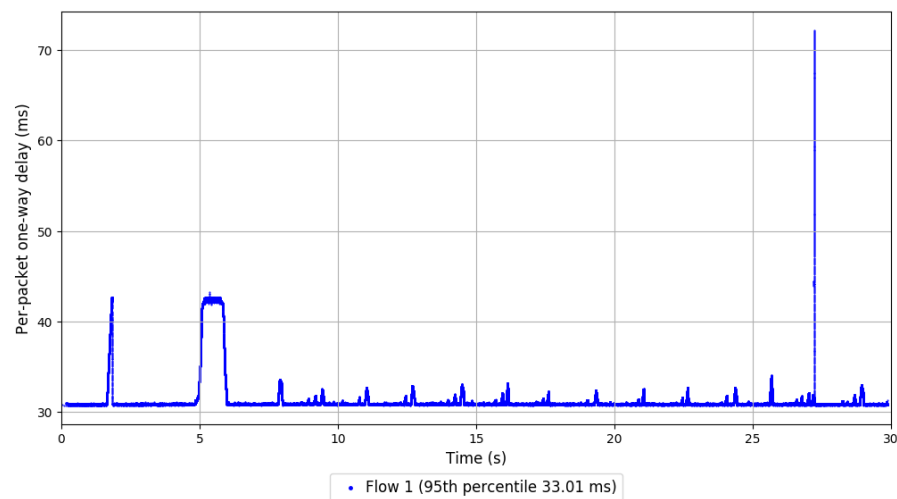
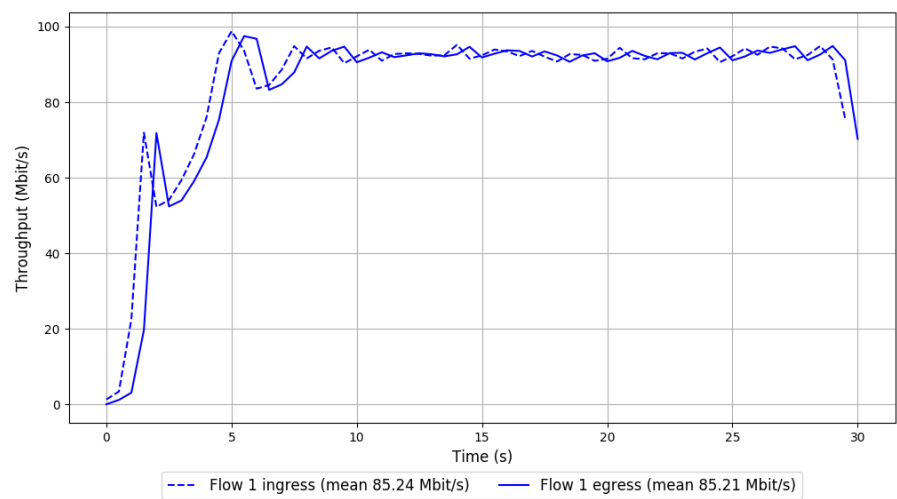
Average throughput: 85.21 Mbit/s

95th percentile per-packet one-way delay: 33.014 ms

Loss rate: 0.23%



Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 03:18:43

End at: 2018-05-25 03:19:13

Local clock offset: 0.148 ms

Remote clock offset: 1.799 ms

# Below is generated by plot.py at 2018-05-25 05:11:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 32.297 ms

Loss rate: 0.23%

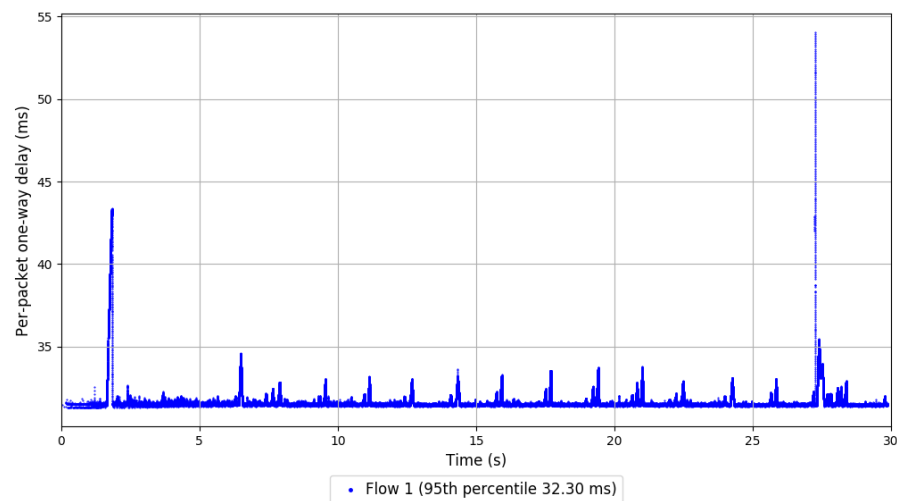
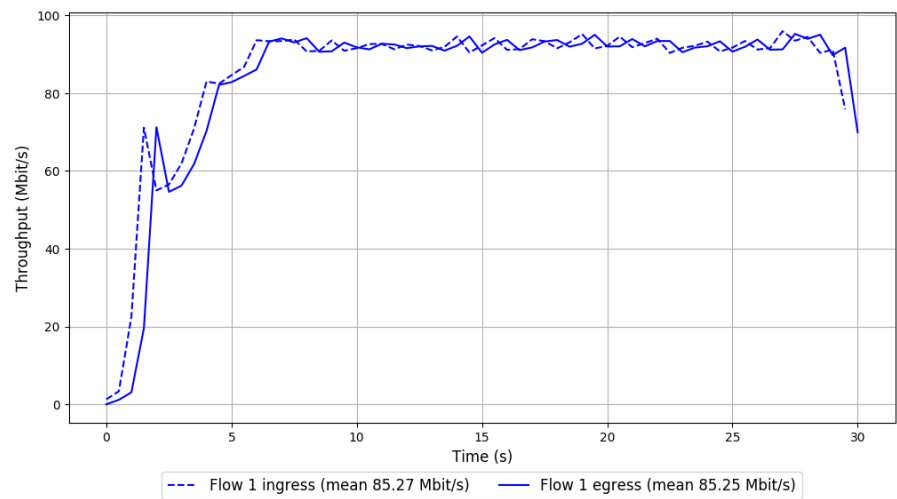
-- Flow 1:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 32.297 ms

Loss rate: 0.23%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 03:39:44

End at: 2018-05-25 03:40:14

Local clock offset: 0.069 ms

Remote clock offset: 2.409 ms

# Below is generated by plot.py at 2018-05-25 05:11:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 37.206 ms

Loss rate: 0.30%

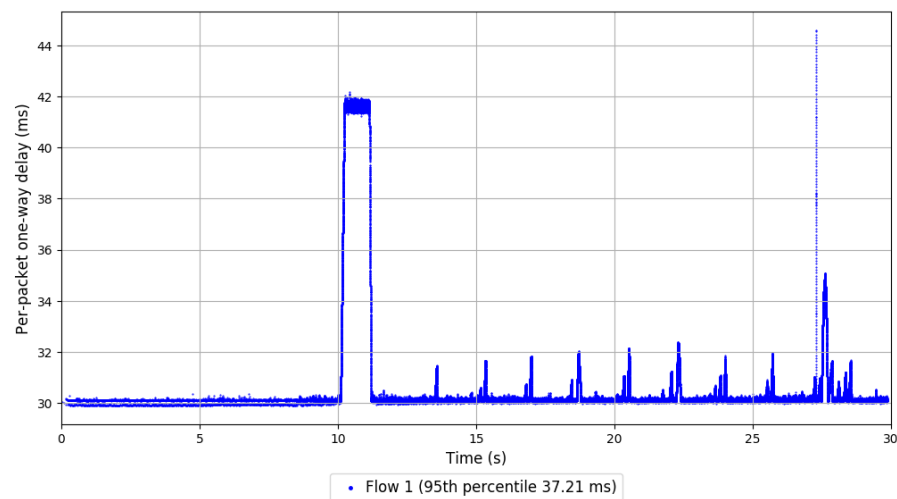
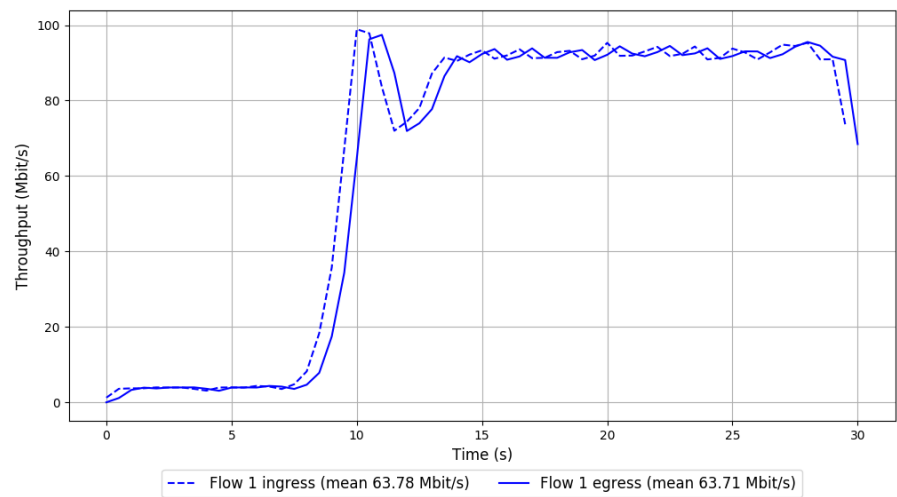
-- Flow 1:

Average throughput: 63.71 Mbit/s

95th percentile per-packet one-way delay: 37.206 ms

Loss rate: 0.30%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 04:00:26

End at: 2018-05-25 04:00:56

Local clock offset: 0.303 ms

Remote clock offset: 2.023 ms

# Below is generated by plot.py at 2018-05-25 05:11:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 26.807 ms

Loss rate: 0.19%

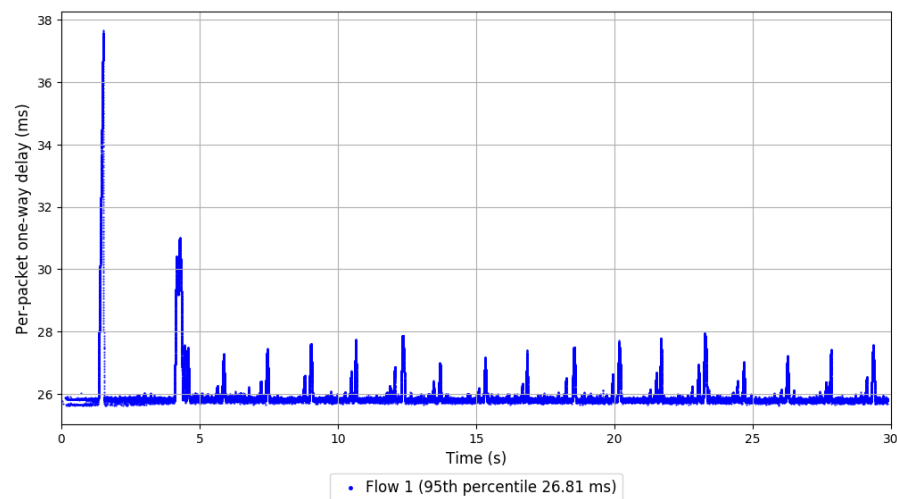
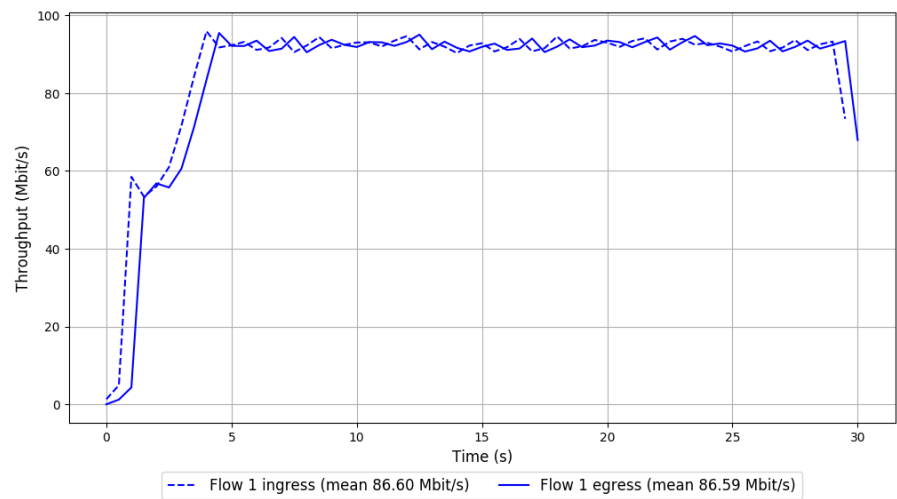
-- Flow 1:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 26.807 ms

Loss rate: 0.19%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 04:21:29

End at: 2018-05-25 04:21:59

Local clock offset: 0.718 ms

Remote clock offset: 2.457 ms

# Below is generated by plot.py at 2018-05-25 05:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 33.162 ms

Loss rate: 0.25%

-- Flow 1:

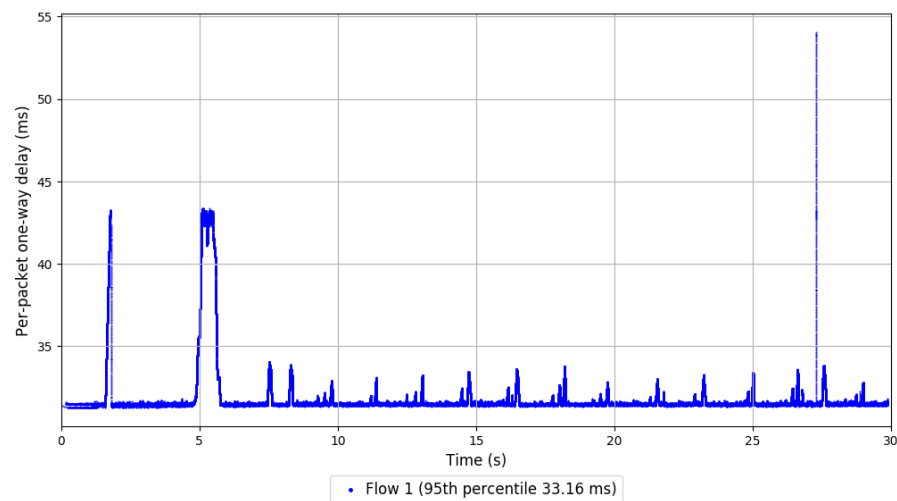
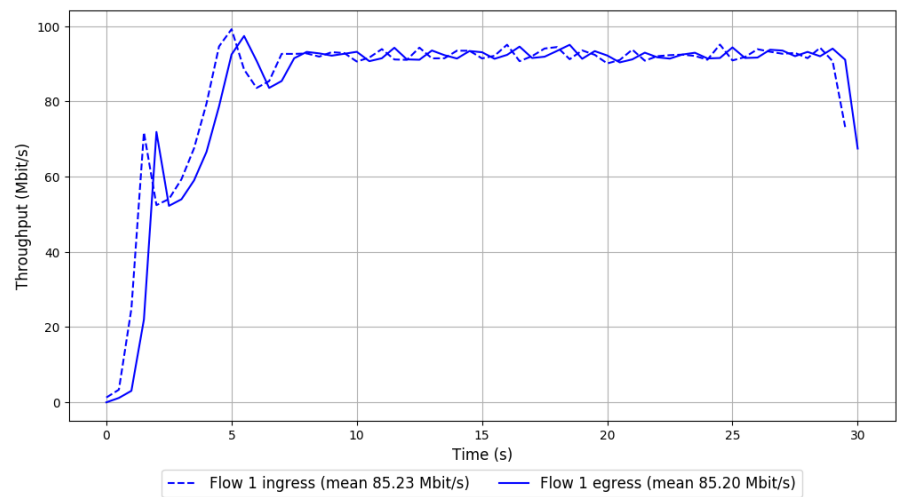
Average throughput: 85.20 Mbit/s

95th percentile per-packet one-way delay: 33.162 ms

Loss rate: 0.25%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 04:42:18

End at: 2018-05-25 04:42:48

Local clock offset: -0.02 ms

Remote clock offset: 1.536 ms

# Below is generated by plot.py at 2018-05-25 05:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 32.519 ms

Loss rate: 0.22%

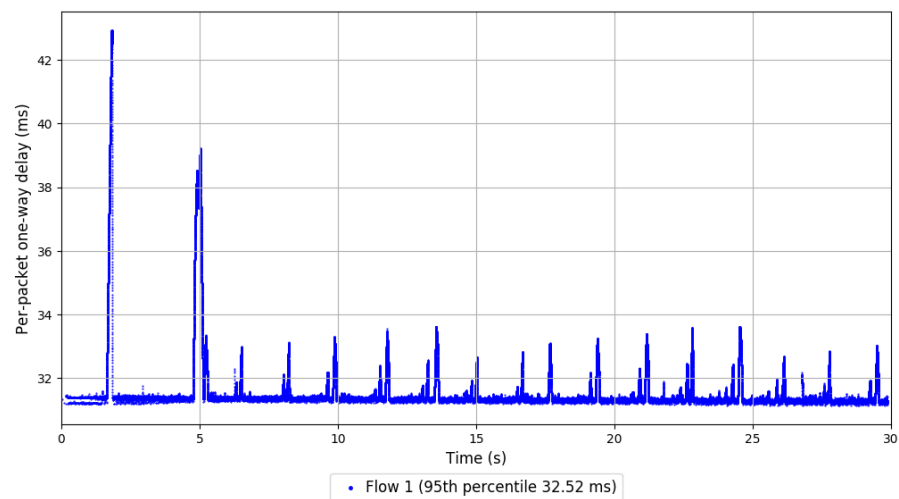
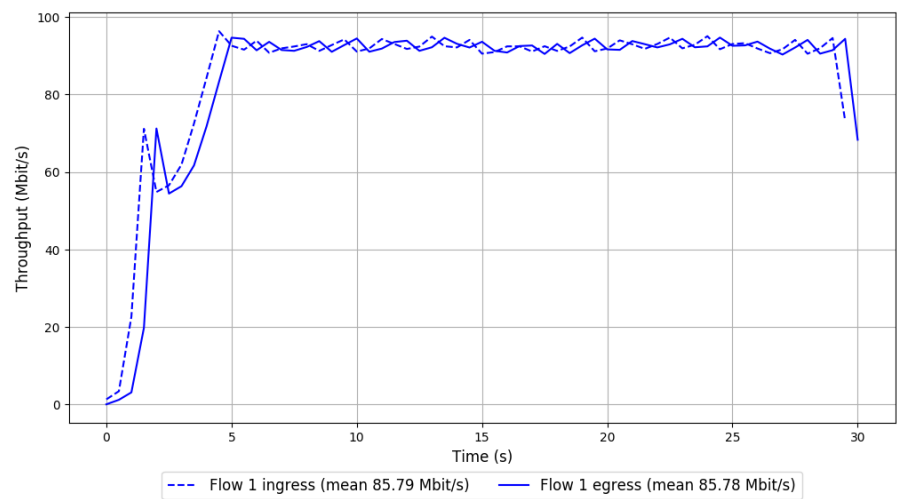
-- Flow 1:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 32.519 ms

Loss rate: 0.22%

Run 10: Report of PCC-Vivace — Data Link

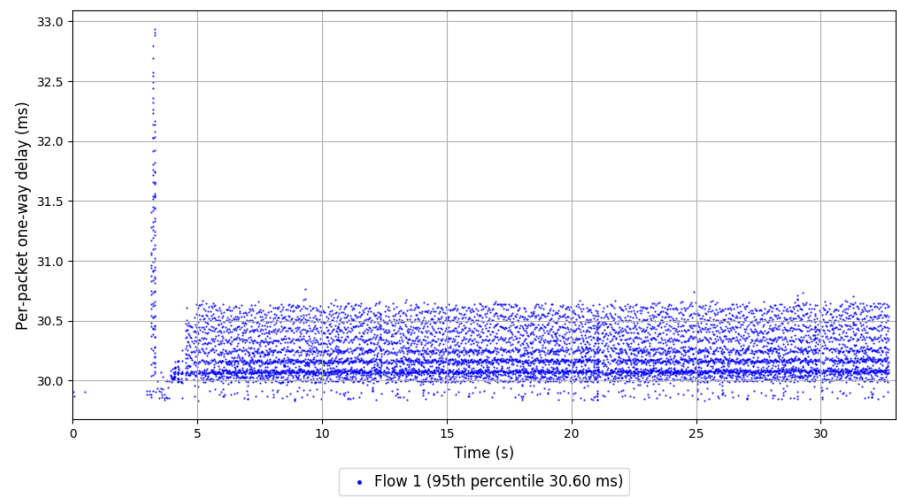
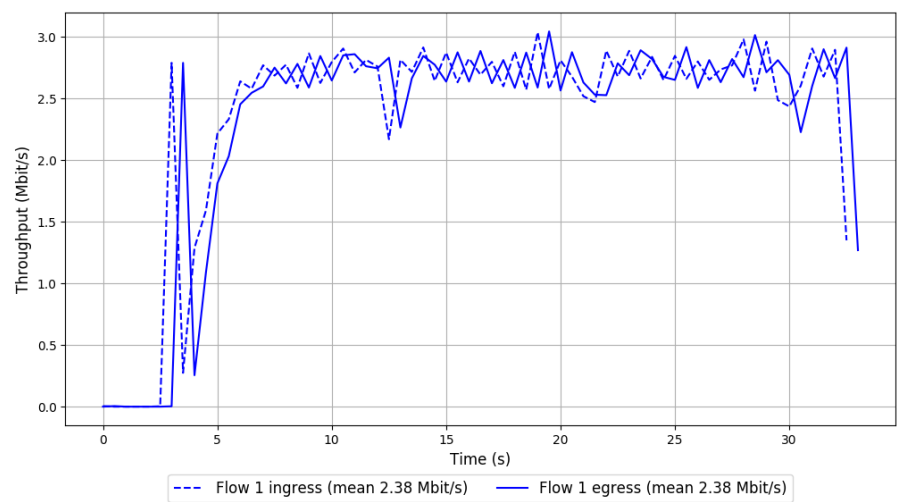


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-25 01:43:51
End at: 2018-05-25 01:44:21
Local clock offset: 0.486 ms
Remote clock offset: 3.636 ms

# Below is generated by plot.py at 2018-05-25 05:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 30.597 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 30.597 ms
Loss rate: 0.19%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-25 02:04:38

End at: 2018-05-25 02:05:08

Local clock offset: 0.364 ms

Remote clock offset: 3.251 ms

# Below is generated by plot.py at 2018-05-25 05:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 31.178 ms

Loss rate: 0.29%

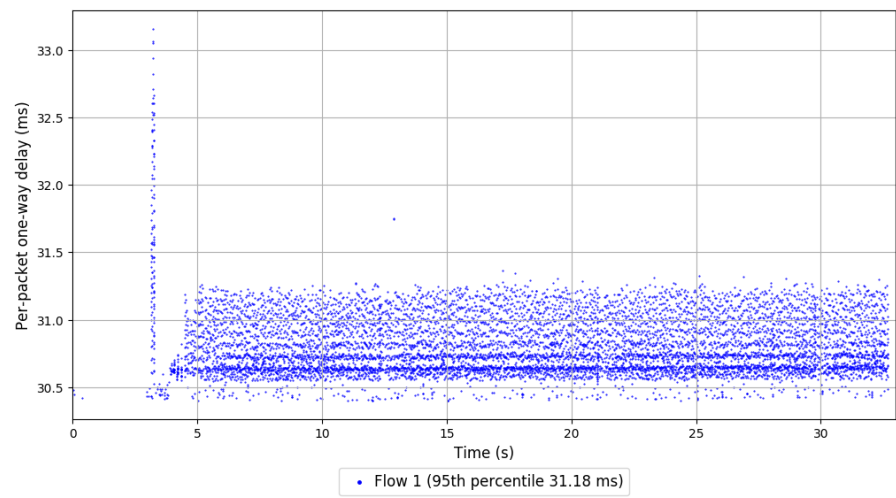
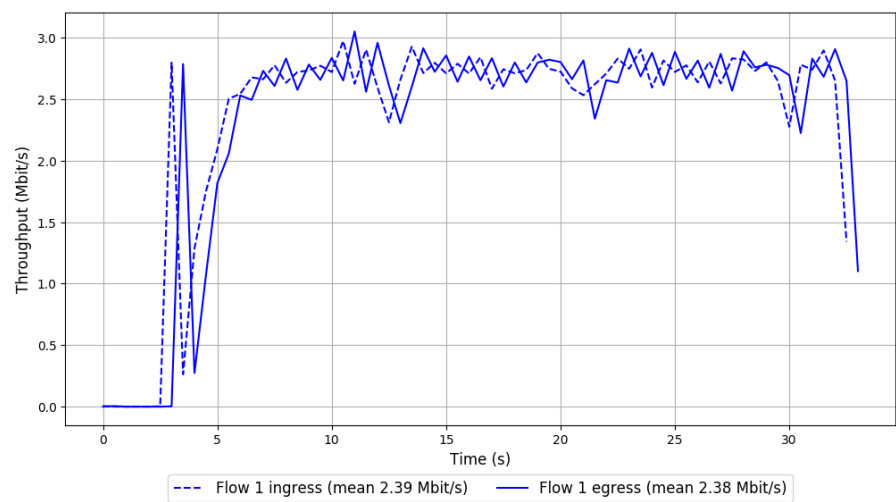
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 31.178 ms

Loss rate: 0.29%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-25 02:25:25

End at: 2018-05-25 02:25:55

Local clock offset: 0.302 ms

Remote clock offset: 3.557 ms

# Below is generated by plot.py at 2018-05-25 05:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 26.720 ms

Loss rate: 0.15%

-- Flow 1:

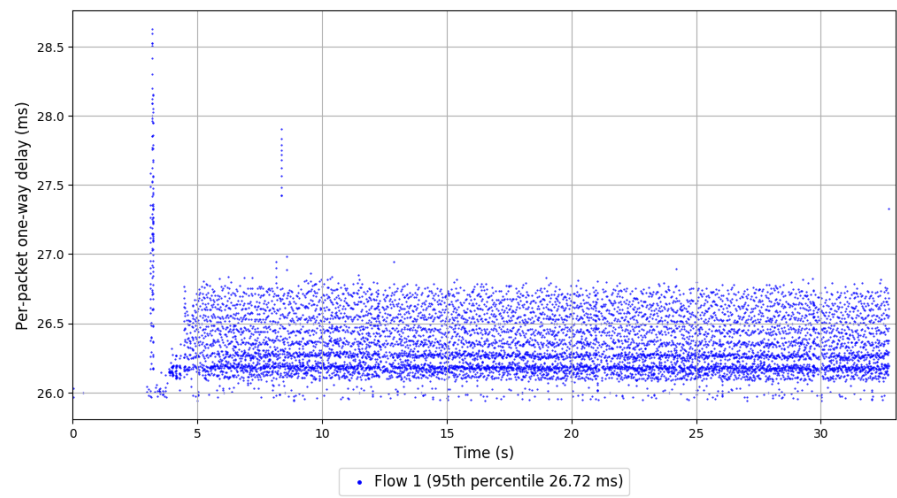
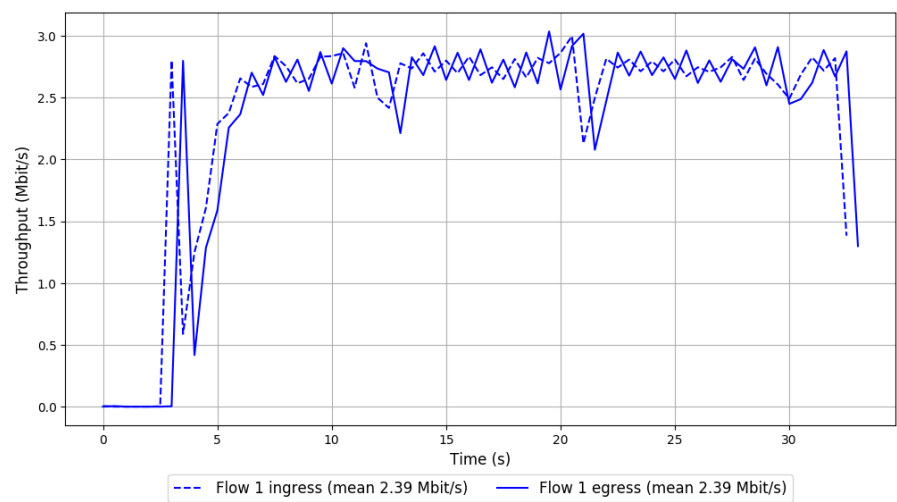
Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 26.720 ms

Loss rate: 0.15%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-25 02:46:11

End at: 2018-05-25 02:46:41

Local clock offset: 0.163 ms

Remote clock offset: 3.261 ms

# Below is generated by plot.py at 2018-05-25 05:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 30.462 ms

Loss rate: 0.28%

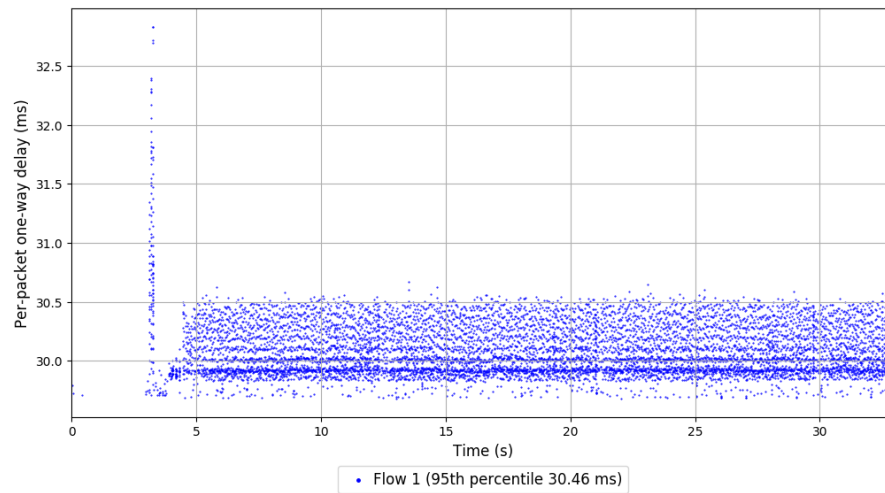
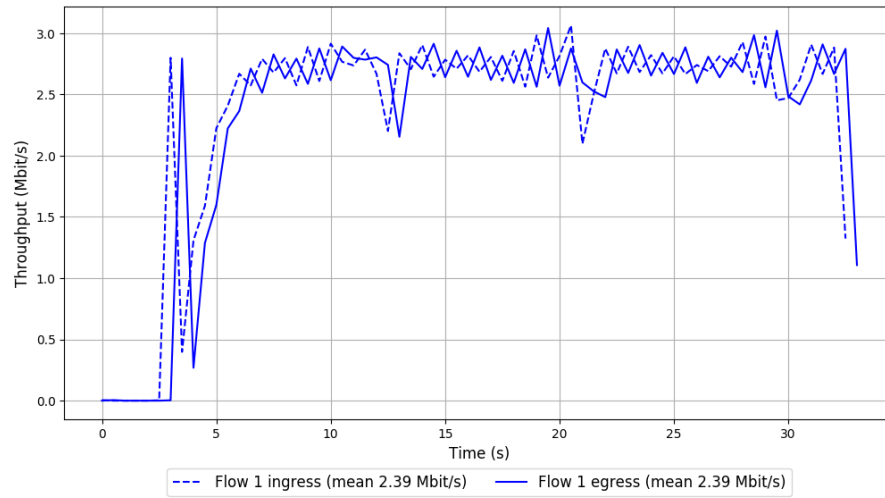
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 30.462 ms

Loss rate: 0.28%

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



Run 5: Statistics of WebRTC media

Start at: 2018-05-25 03:07:01

End at: 2018-05-25 03:07:31

Local clock offset: 0.161 ms

Remote clock offset: 2.773 ms

# Below is generated by plot.py at 2018-05-25 05:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 29.943 ms

Loss rate: 0.28%

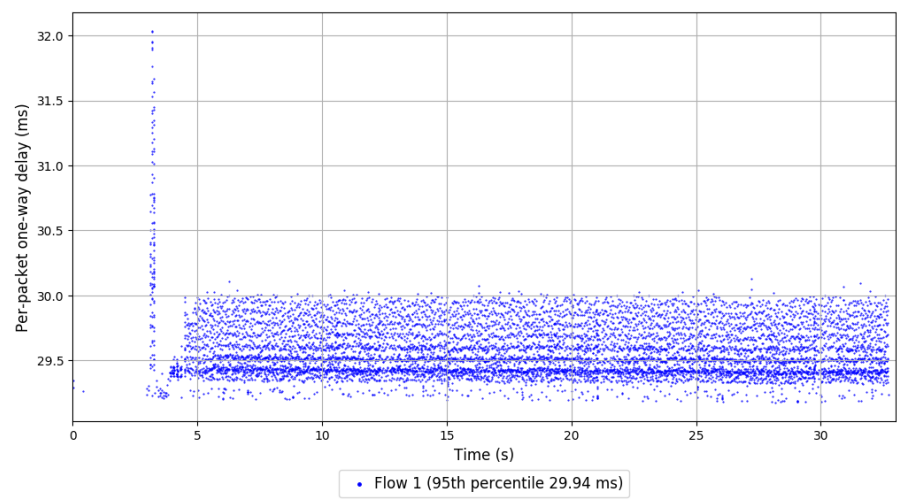
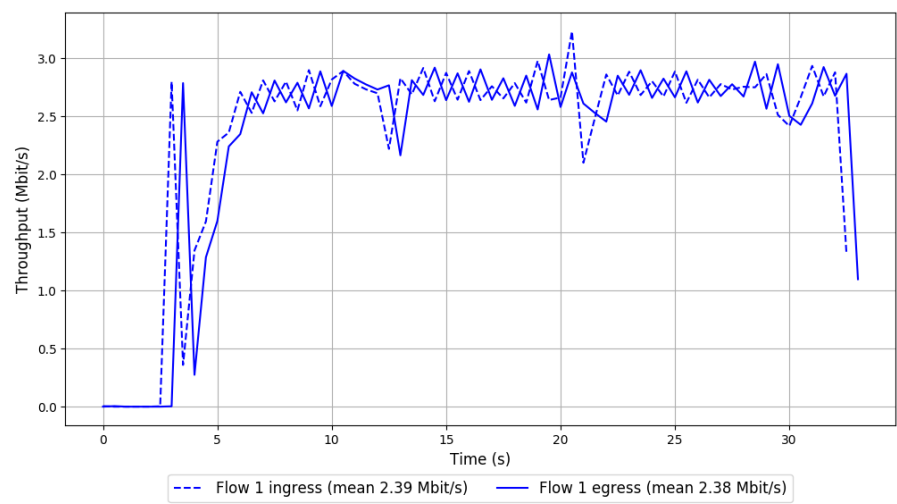
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 29.943 ms

Loss rate: 0.28%

Run 5: Report of WebRTC media — Data Link

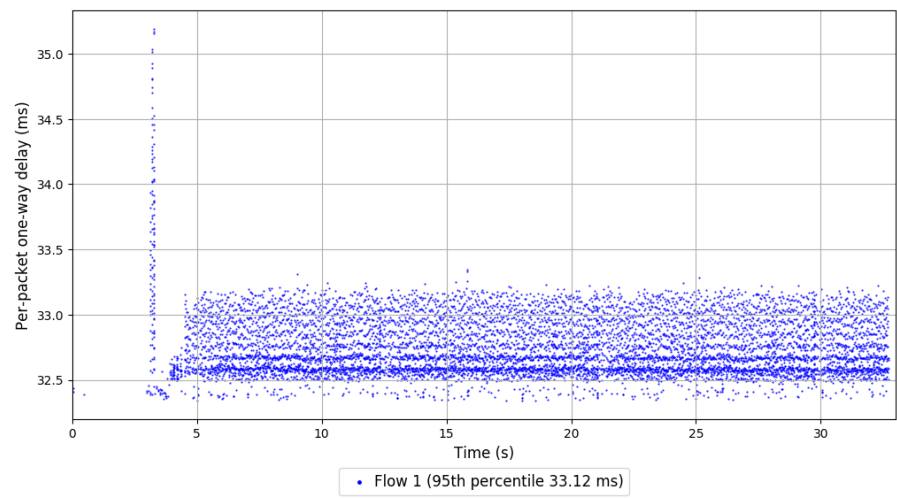
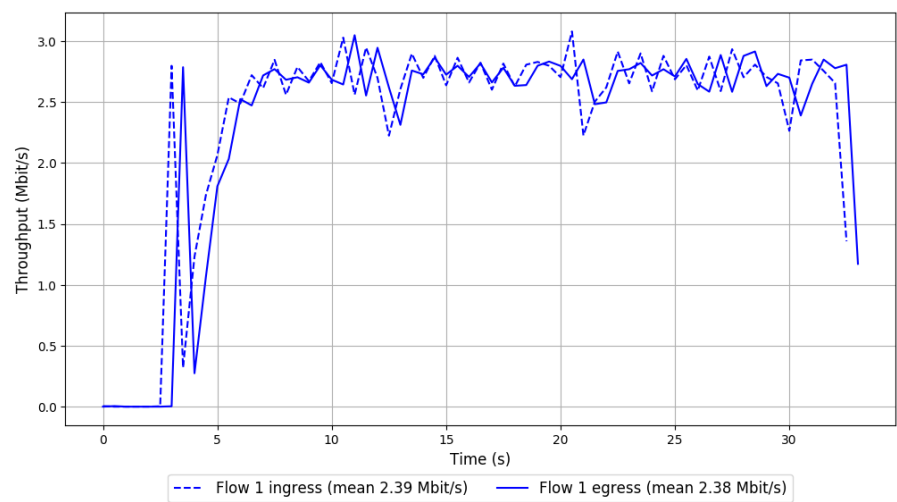


Run 6: Statistics of WebRTC media

Start at: 2018-05-25 03:28:06  
End at: 2018-05-25 03:28:36  
Local clock offset: 0.068 ms  
Remote clock offset: -0.482 ms

# Below is generated by plot.py at 2018-05-25 05:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.38 Mbit/s  
95th percentile per-packet one-way delay: 33.124 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 2.38 Mbit/s  
95th percentile per-packet one-way delay: 33.124 ms  
Loss rate: 0.16%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-25 03:48:49

End at: 2018-05-25 03:49:19

Local clock offset: 0.052 ms

Remote clock offset: 2.488 ms

# Below is generated by plot.py at 2018-05-25 05:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 30.811 ms

Loss rate: 0.15%

-- Flow 1:

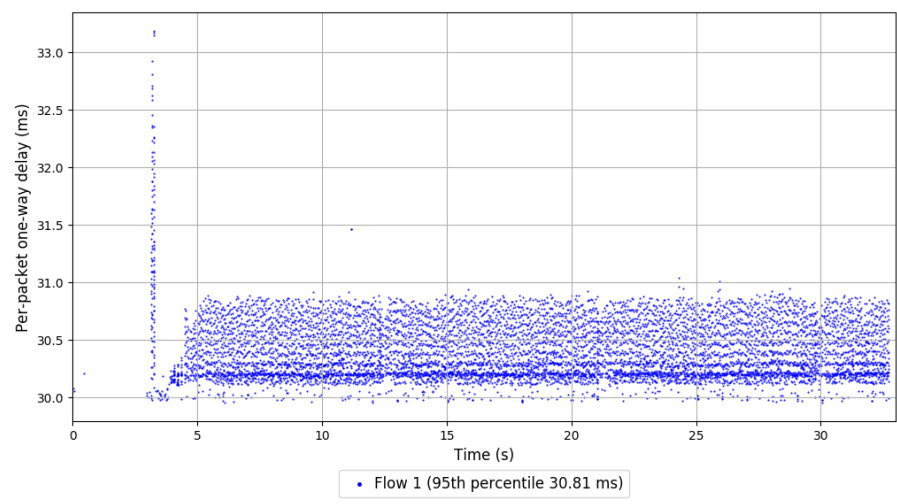
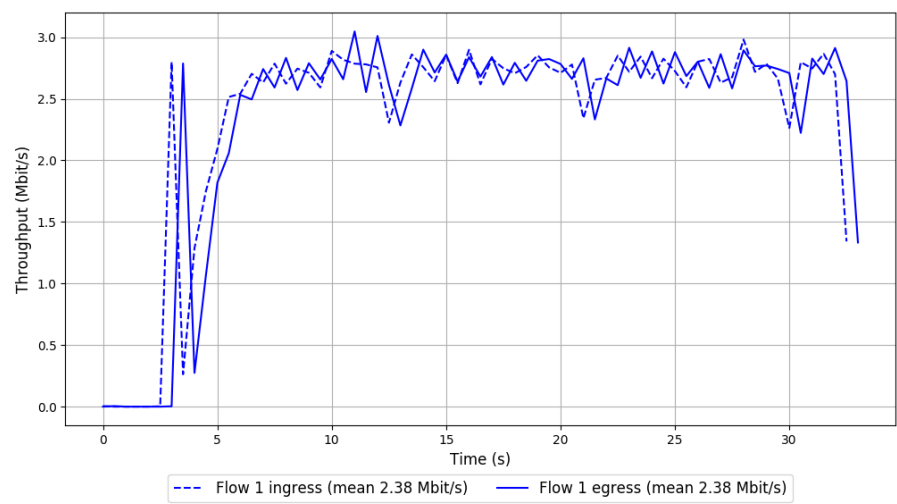
Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 30.811 ms

Loss rate: 0.15%



Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-25 04:09:49

End at: 2018-05-25 04:10:19

Local clock offset: 0.554 ms

Remote clock offset: 2.205 ms

# Below is generated by plot.py at 2018-05-25 05:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 31.358 ms

Loss rate: 0.18%

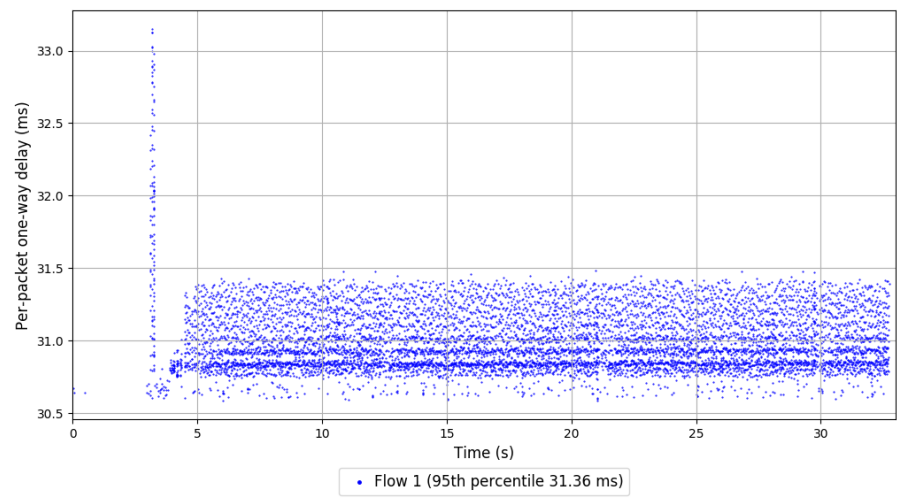
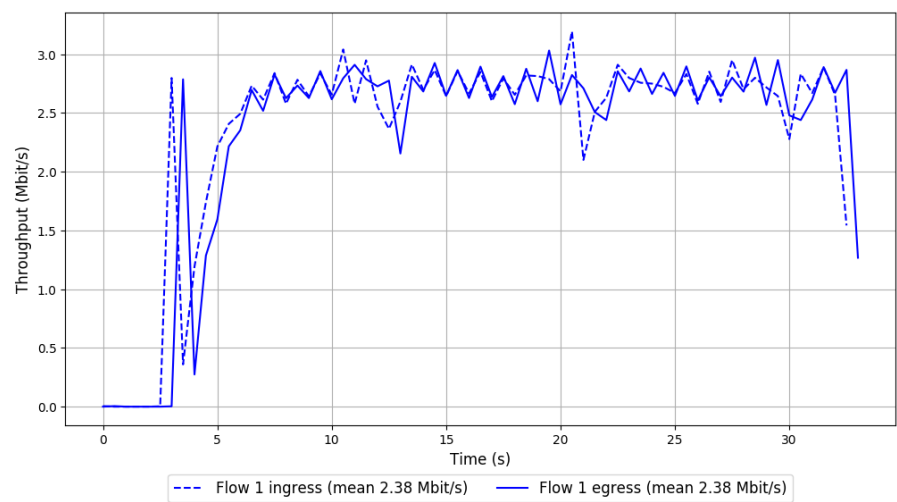
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 31.358 ms

Loss rate: 0.18%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-25 04:30:38

End at: 2018-05-25 04:31:08

Local clock offset: 0.35 ms

Remote clock offset: 2.45 ms

# Below is generated by plot.py at 2018-05-25 05:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 26.409 ms

Loss rate: 0.22%

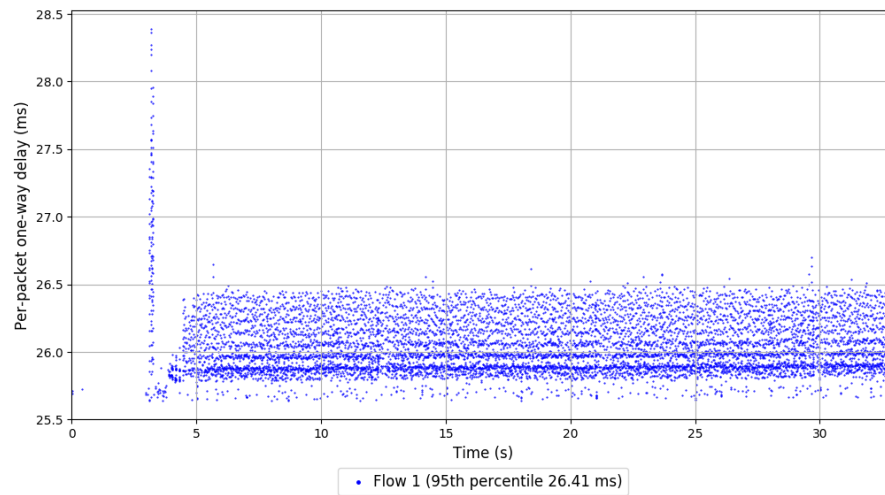
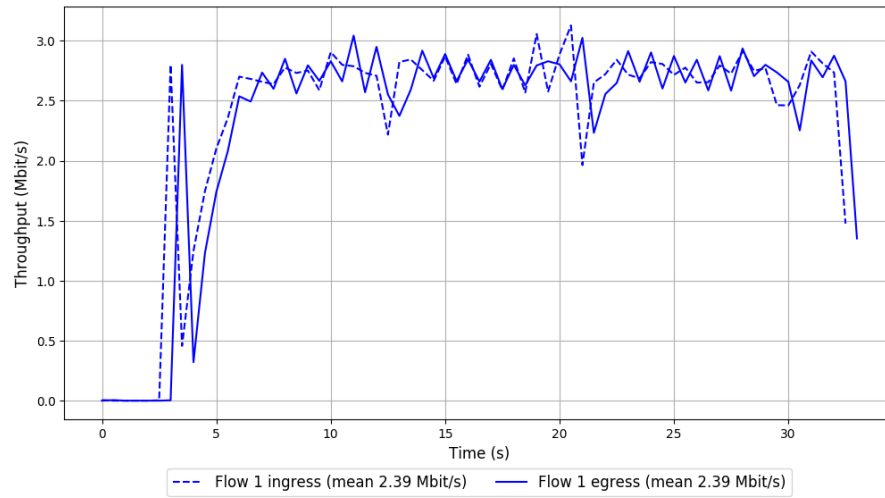
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 26.409 ms

Loss rate: 0.22%

### Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 04:51:27  
End at: 2018-05-25 04:51:57  
Local clock offset: -0.216 ms  
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2018-05-25 05:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.38 Mbit/s  
95th percentile per-packet one-way delay: 26.922 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 2.38 Mbit/s  
95th percentile per-packet one-way delay: 26.922 ms  
Loss rate: 0.18%

Run 10: Report of WebRTC media — Data Link

