

## Pantheon Report

Generated at 2018-04-17 09:55:37 (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).

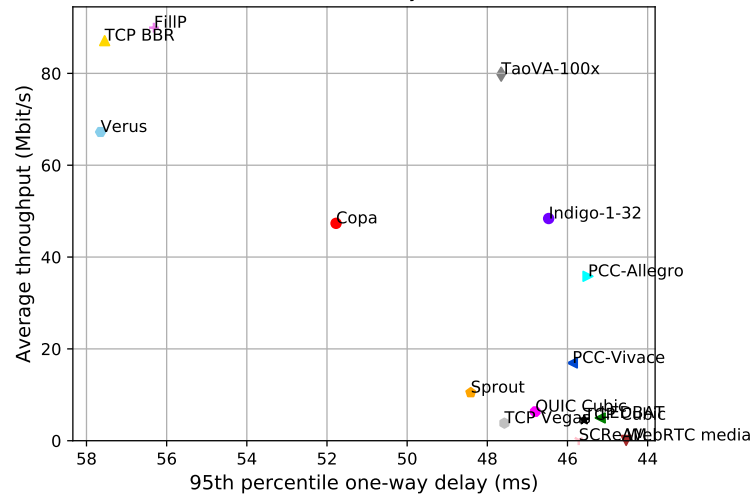
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

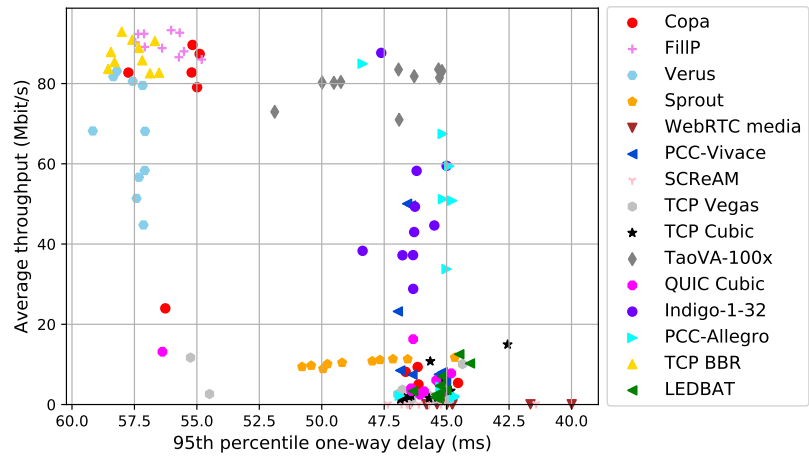
Git summary:

```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	87.13	57.55	2.56
TCP Cubic	10	4.57	45.58	1.74
LEDBAT	10	4.96	45.18	2.16
PCC-Allegro	10	35.81	45.49	2.23
QUIC Cubic	10	6.35	46.80	1.99
SCReAM	10	0.11	45.72	1.75
WebRTC media	10	0.06	44.54	1.39
Sprout	10	10.49	48.41	2.73
TaoVA-100x	10	79.82	47.65	3.13
TCP Vegas	10	3.83	47.57	2.28
Verus	10	67.24	57.65	3.29
Copa	10	47.34	51.77	2.17
FillP	10	89.95	56.32	3.19
Indigo-1-32	10	48.39	46.47	2.76
PCC-Vivace	10	16.93	45.88	2.21
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 01:33:29

End at: 2018-04-17 01:33:59

Local clock offset: 2.629 ms

Remote clock offset: 2.331 ms

# Below is generated by plot.py at 2018-04-17 09:43:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.38 Mbit/s

95th percentile per-packet one-way delay: 58.297 ms

Loss rate: 3.02%

-- Flow 1:

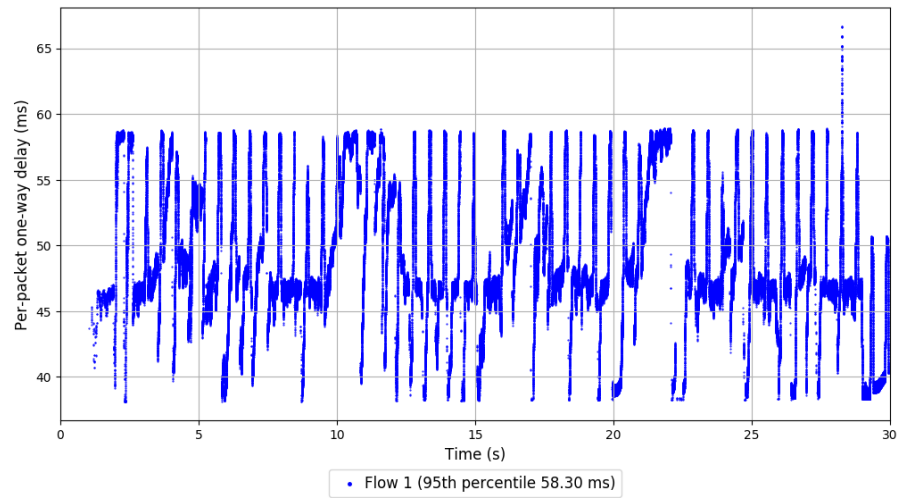
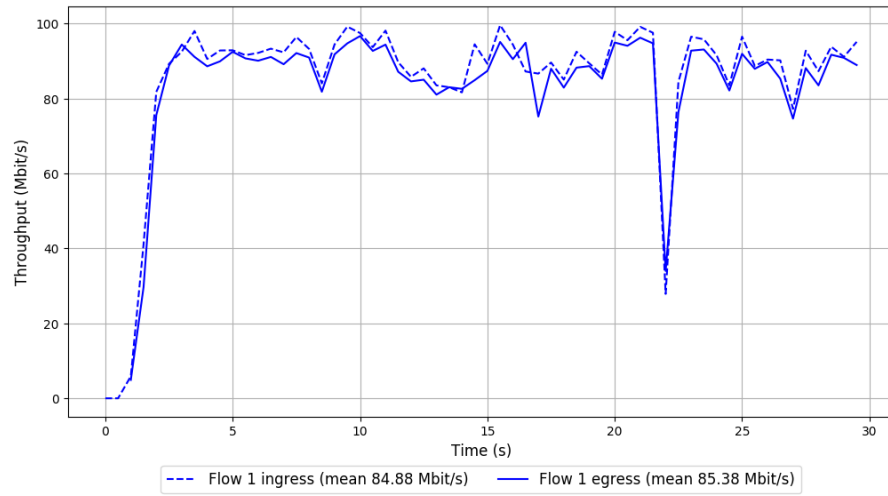
Average throughput: 85.38 Mbit/s

95th percentile per-packet one-way delay: 58.297 ms

Loss rate: 3.02%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-17 02:00:17

End at: 2018-04-17 02:00:47

Local clock offset: -0.334 ms

Remote clock offset: 6.038 ms

# Below is generated by plot.py at 2018-04-17 09:43:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 57.187 ms

Loss rate: 3.20%

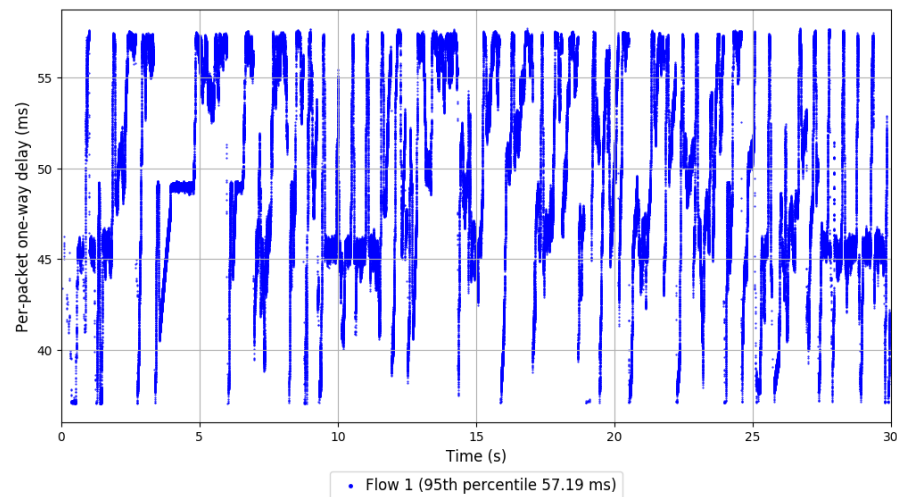
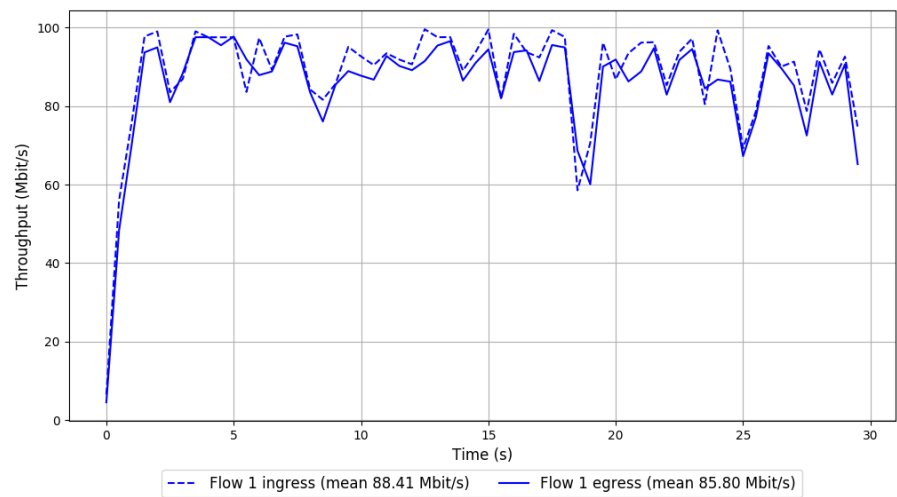
-- Flow 1:

Average throughput: 85.80 Mbit/s

95th percentile per-packet one-way delay: 57.187 ms

Loss rate: 3.20%

Run 2: Report of TCP BBR — Data Link

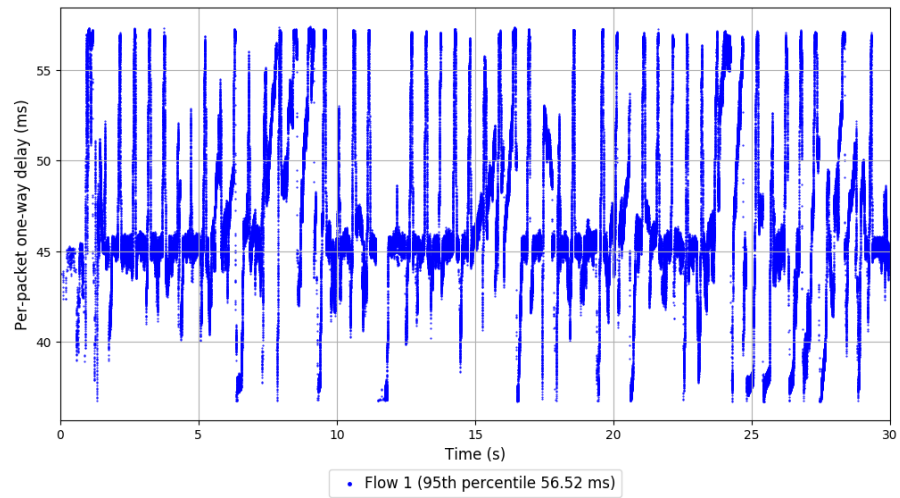
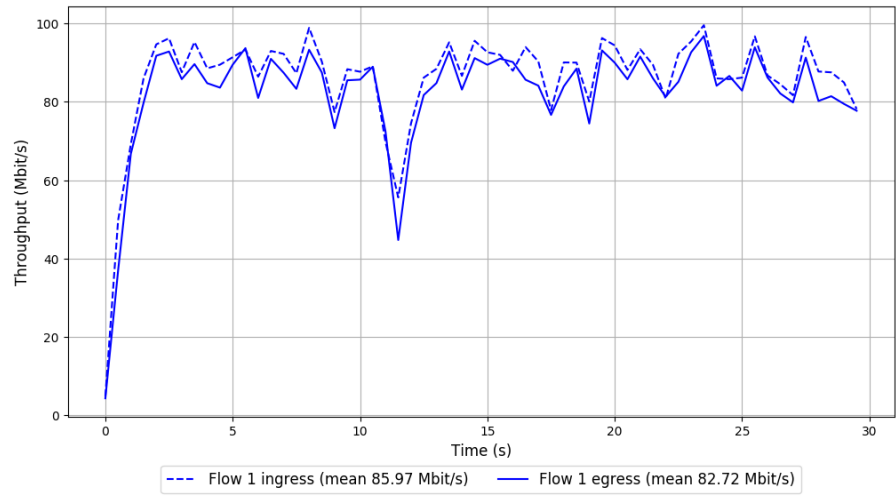


Run 3: Statistics of TCP BBR

Start at: 2018-04-17 02:26:20  
End at: 2018-04-17 02:26:50  
Local clock offset: -0.375 ms  
Remote clock offset: -1.846 ms

# Below is generated by plot.py at 2018-04-17 09:43:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.72 Mbit/s  
95th percentile per-packet one-way delay: 56.515 ms  
Loss rate: 4.02%  
-- Flow 1:  
Average throughput: 82.72 Mbit/s  
95th percentile per-packet one-way delay: 56.515 ms  
Loss rate: 4.02%

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

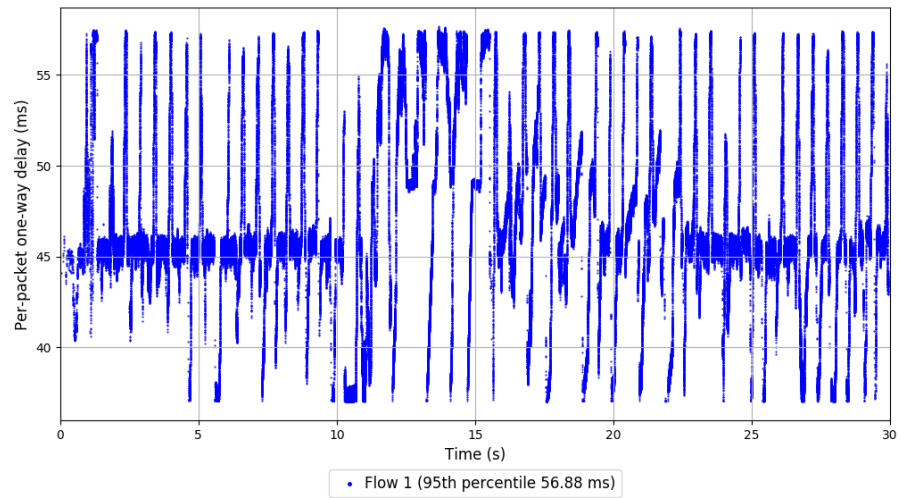
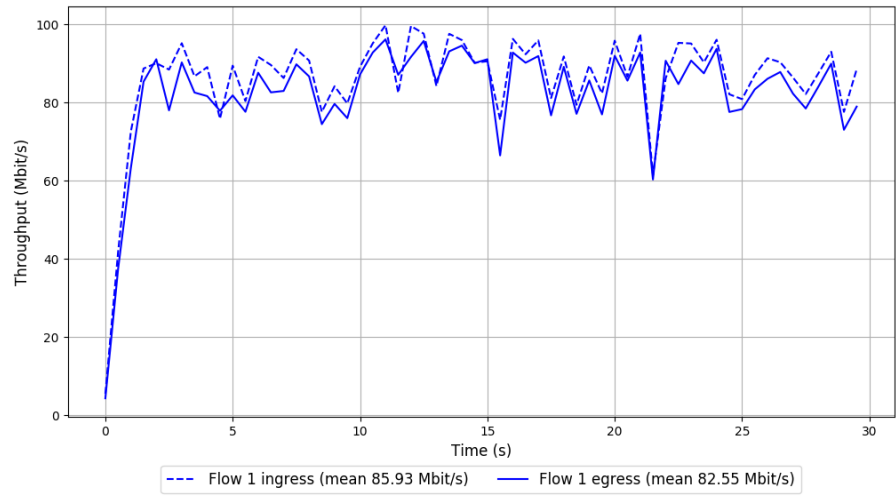


Run 4: Statistics of TCP BBR

Start at: 2018-04-17 02:55:51  
End at: 2018-04-17 02:56:21  
Local clock offset: -0.298 ms  
Remote clock offset: -3.105 ms

# Below is generated by plot.py at 2018-04-17 09:43:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.55 Mbit/s  
95th percentile per-packet one-way delay: 56.877 ms  
Loss rate: 4.16%  
-- Flow 1:  
Average throughput: 82.55 Mbit/s  
95th percentile per-packet one-way delay: 56.877 ms  
Loss rate: 4.16%

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



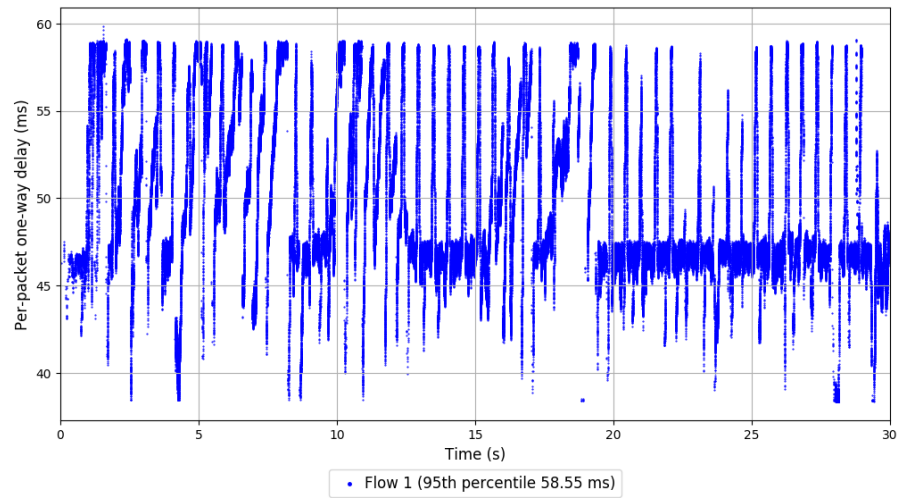
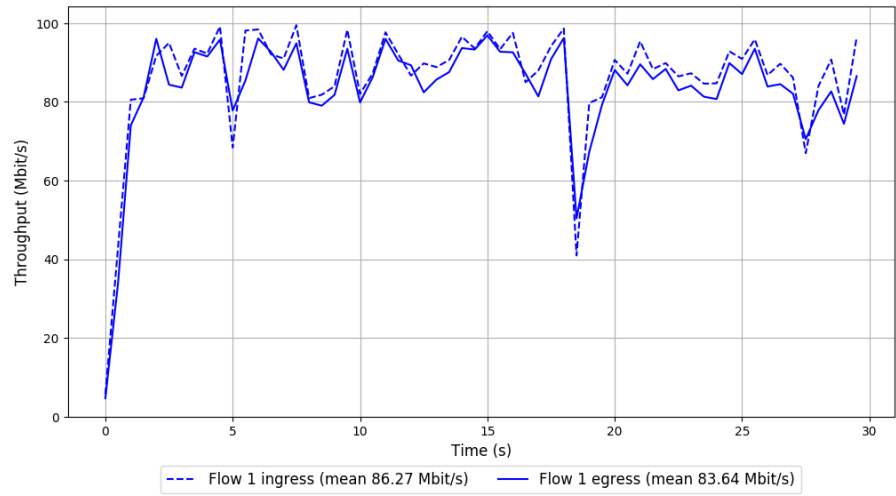
Run 5: Statistics of TCP BBR

Start at: 2018-04-17 03:24:24  
End at: 2018-04-17 03:24:54  
Local clock offset: -0.032 ms  
Remote clock offset: -5.345 ms

# Below is generated by plot.py at 2018-04-17 09:43:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.64 Mbit/s  
95th percentile per-packet one-way delay: 58.551 ms  
Loss rate: 3.29%  
-- Flow 1:  
Average throughput: 83.64 Mbit/s  
95th percentile per-packet one-way delay: 58.551 ms  
Loss rate: 3.29%



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



Run 6: Statistics of TCP BBR

Start at: 2018-04-17 03:53:20

End at: 2018-04-17 03:53:50

Local clock offset: 3.377 ms

Remote clock offset: -4.89 ms

# Below is generated by plot.py at 2018-04-17 09:43:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.88 Mbit/s

95th percentile per-packet one-way delay: 57.328 ms

Loss rate: 2.48%

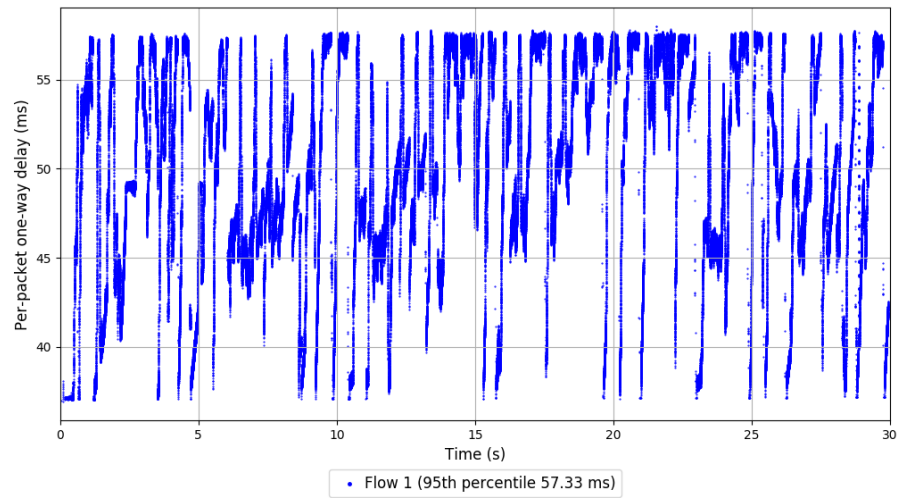
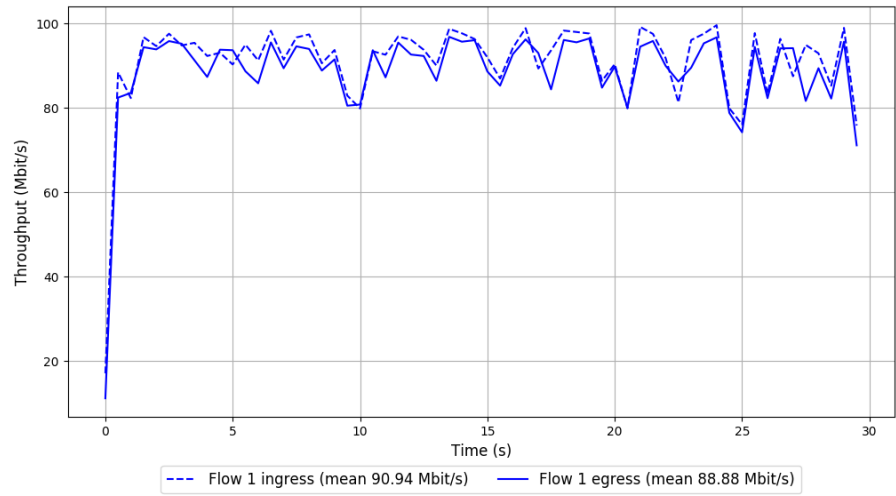
-- Flow 1:

Average throughput: 88.88 Mbit/s

95th percentile per-packet one-way delay: 57.328 ms

Loss rate: 2.48%

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



Run 7: Statistics of TCP BBR

Start at: 2018-04-17 04:21:02

End at: 2018-04-17 04:21:32

Local clock offset: 6.56 ms

Remote clock offset: -1.14 ms

# Below is generated by plot.py at 2018-04-17 09:44:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.60 Mbit/s

95th percentile per-packet one-way delay: 56.681 ms

Loss rate: 1.31%

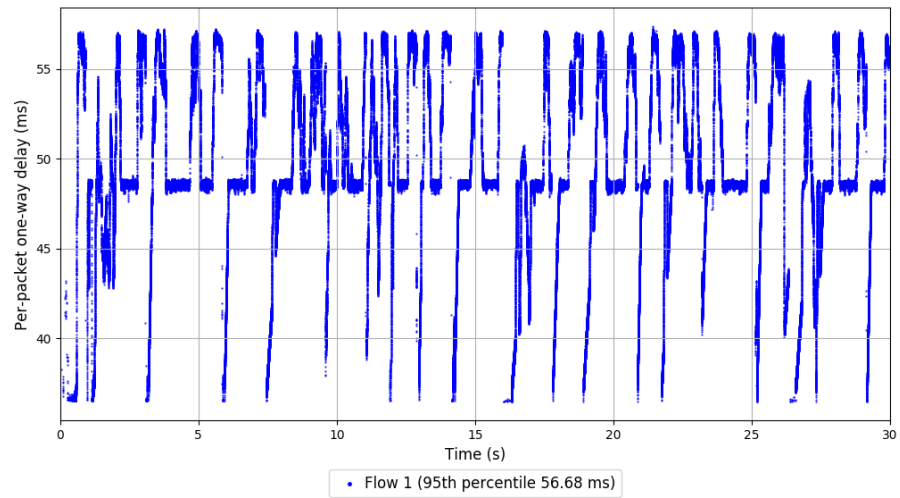
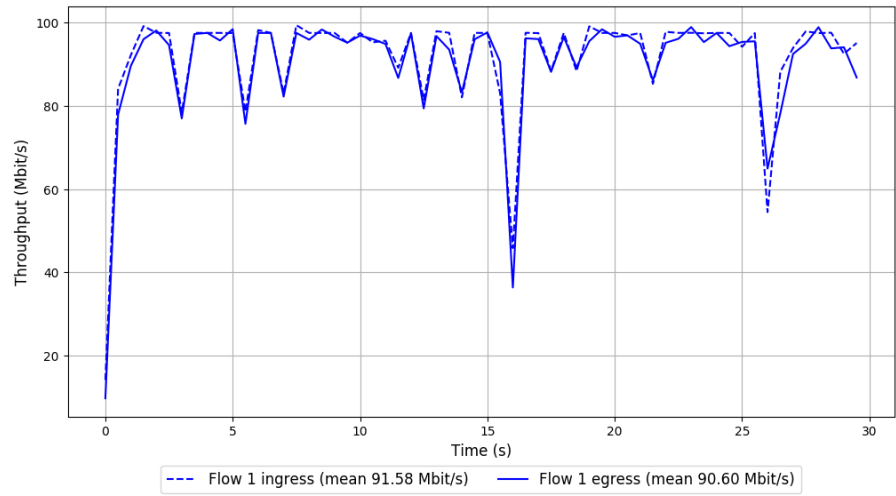
-- Flow 1:

Average throughput: 90.60 Mbit/s

95th percentile per-packet one-way delay: 56.681 ms

Loss rate: 1.31%

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



Run 8: Statistics of TCP BBR

Start at: 2018-04-17 04:45:49

End at: 2018-04-17 04:46:19

Local clock offset: 9.374 ms

Remote clock offset: -7.11 ms

# Below is generated by plot.py at 2018-04-17 09:44:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 58.008 ms

Loss rate: 0.92%

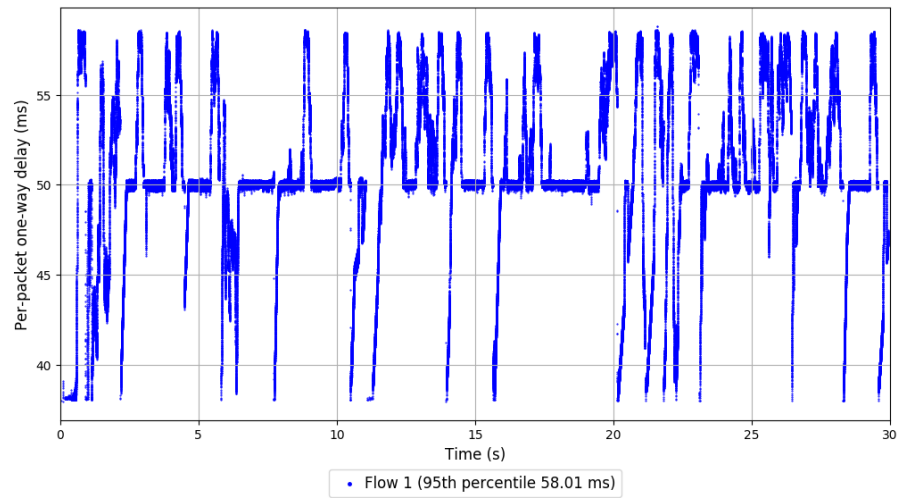
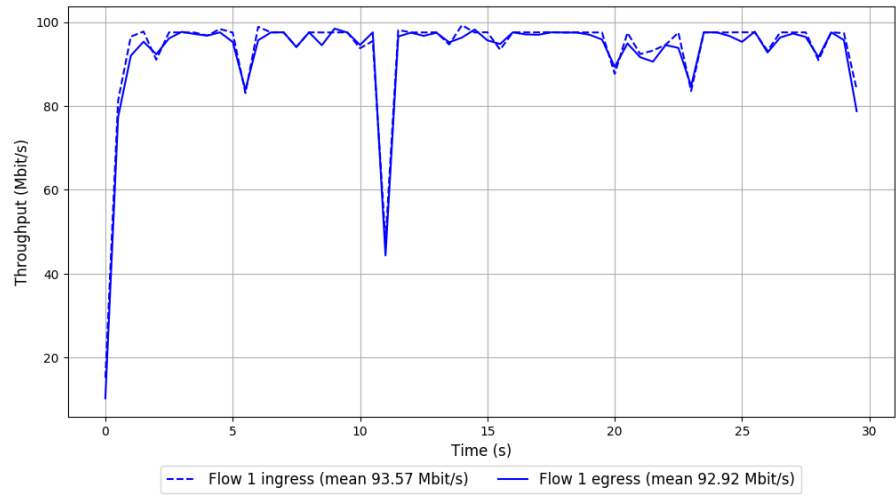
-- Flow 1:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 58.008 ms

Loss rate: 0.92%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 05:11:42

End at: 2018-04-17 05:12:12

Local clock offset: 11.431 ms

Remote clock offset: -1.76 ms

# Below is generated by plot.py at 2018-04-17 09:45:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.87 Mbit/s

95th percentile per-packet one-way delay: 58.441 ms

Loss rate: 1.92%

-- Flow 1:

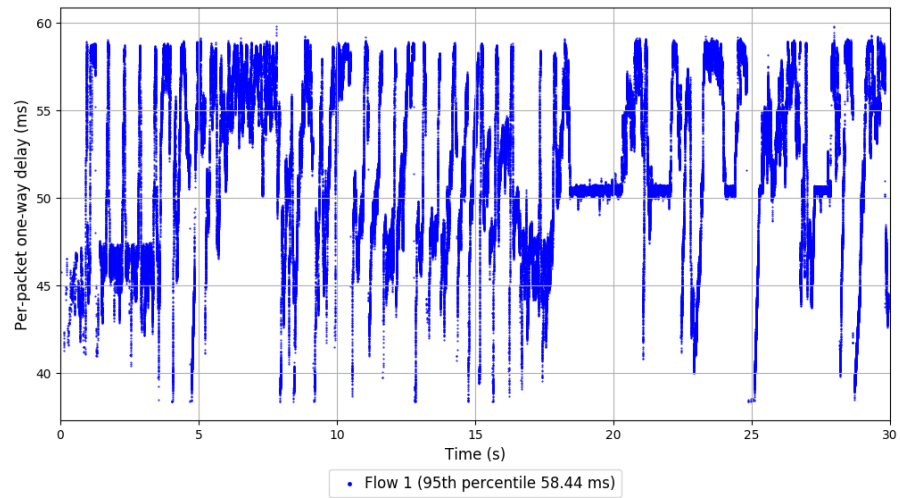
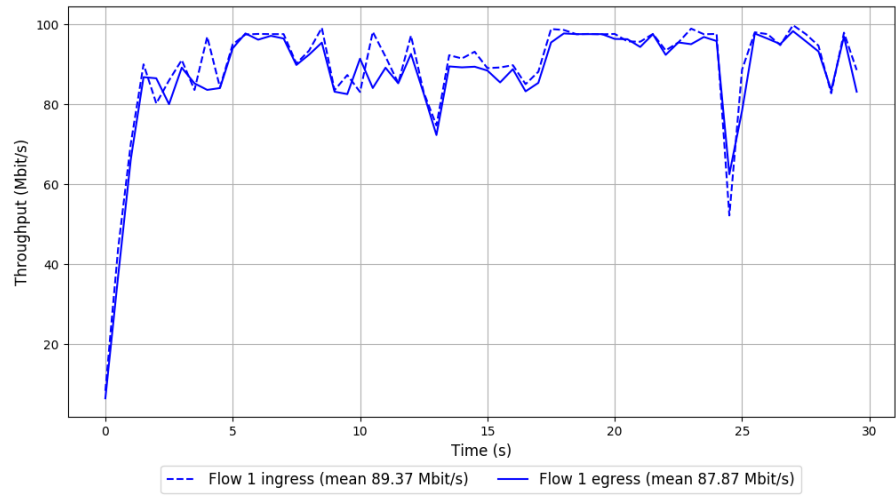
Average throughput: 87.87 Mbit/s

95th percentile per-packet one-way delay: 58.441 ms

Loss rate: 1.92%



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

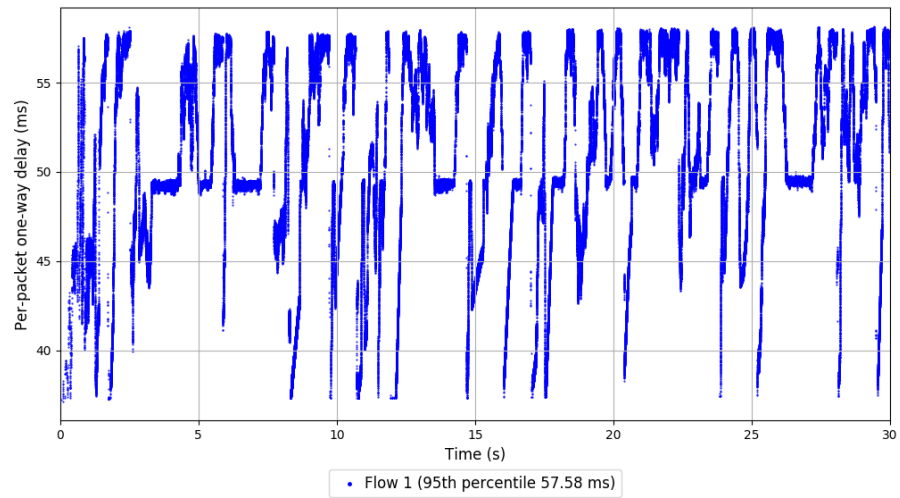
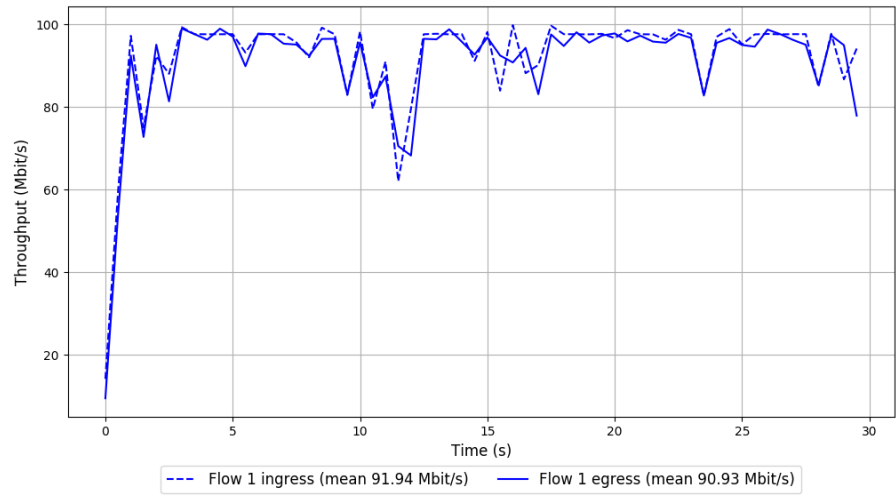


Run 10: Statistics of TCP BBR

Start at: 2018-04-17 05:35:59  
End at: 2018-04-17 05:36:29  
Local clock offset: 0.992 ms  
Remote clock offset: -0.929 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.93 Mbit/s  
95th percentile per-packet one-way delay: 57.584 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 90.93 Mbit/s  
95th percentile per-packet one-way delay: 57.584 ms  
Loss rate: 1.32%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 01:40:22

End at: 2018-04-17 01:40:52

Local clock offset: 1.189 ms

Remote clock offset: 2.975 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 45.704 ms

Loss rate: 2.59%

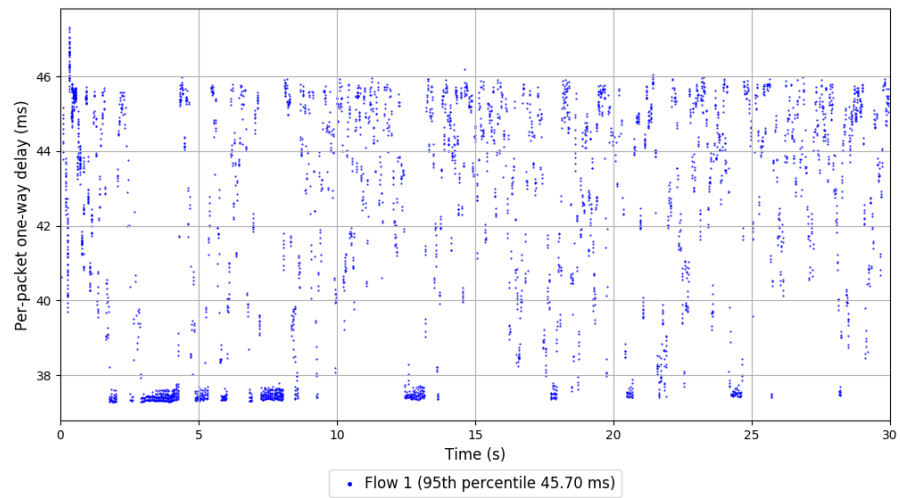
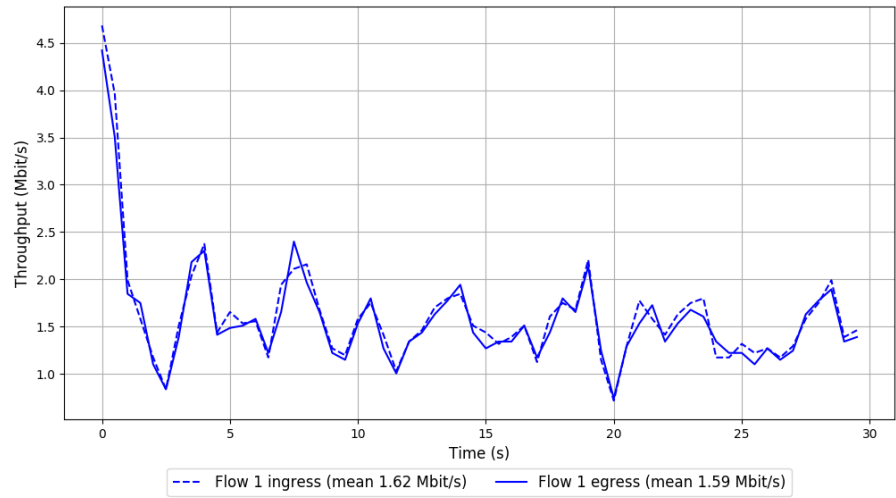
-- Flow 1:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 45.704 ms

Loss rate: 2.59%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 02:06:28

End at: 2018-04-17 02:06:58

Local clock offset: -0.155 ms

Remote clock offset: 6.968 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 46.420 ms

Loss rate: 2.08%

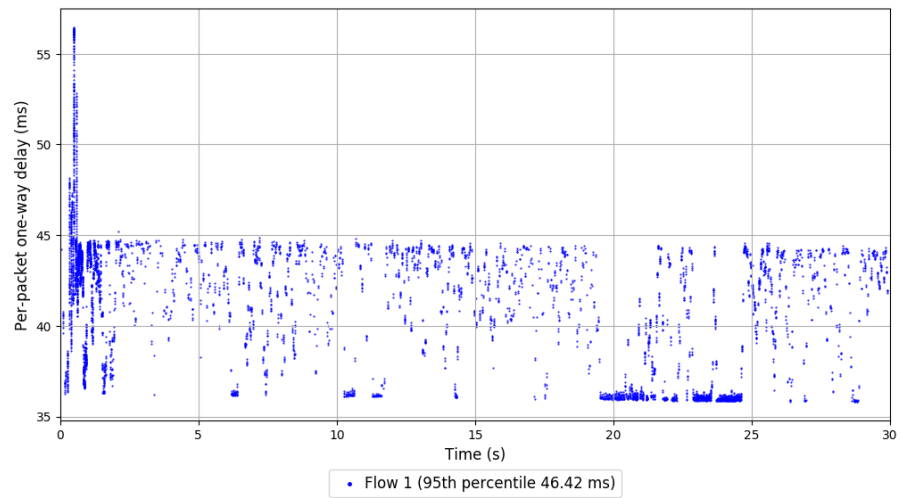
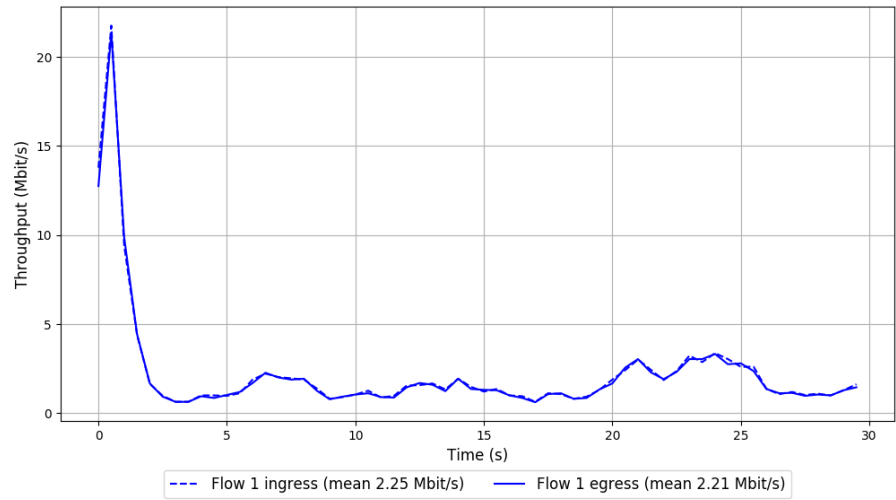
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 46.420 ms

Loss rate: 2.08%

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



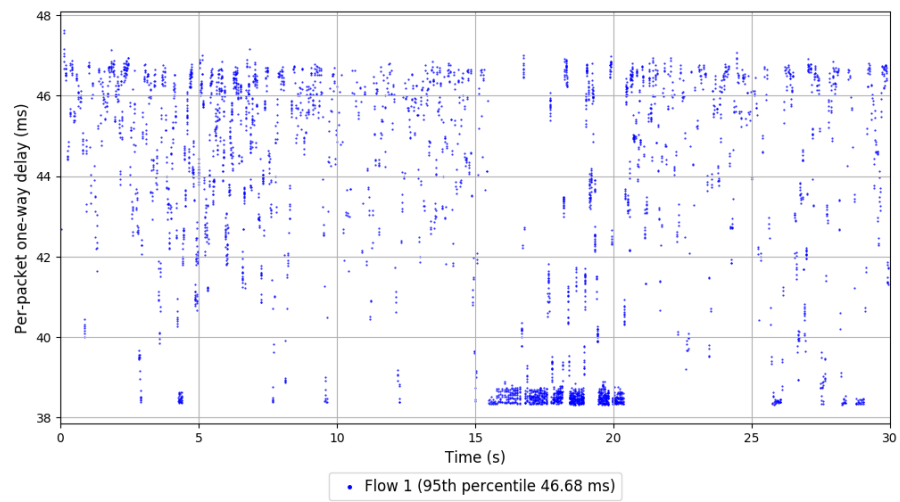
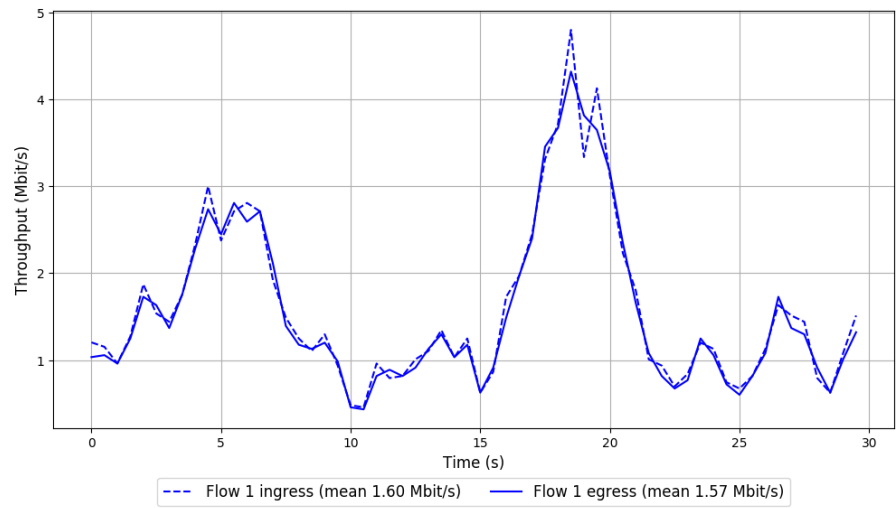
Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 02:34:05  
End at: 2018-04-17 02:34:35  
Local clock offset: -0.554 ms  
Remote clock offset: -2.939 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.57 Mbit/s  
95th percentile per-packet one-way delay: 46.682 ms  
Loss rate: 2.40%  
-- Flow 1:  
Average throughput: 1.57 Mbit/s  
95th percentile per-packet one-way delay: 46.682 ms  
Loss rate: 2.40%



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



Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 03:02:27

End at: 2018-04-17 03:02:57

Local clock offset: -0.414 ms

Remote clock offset: -3.19 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 45.364 ms

Loss rate: 2.49%

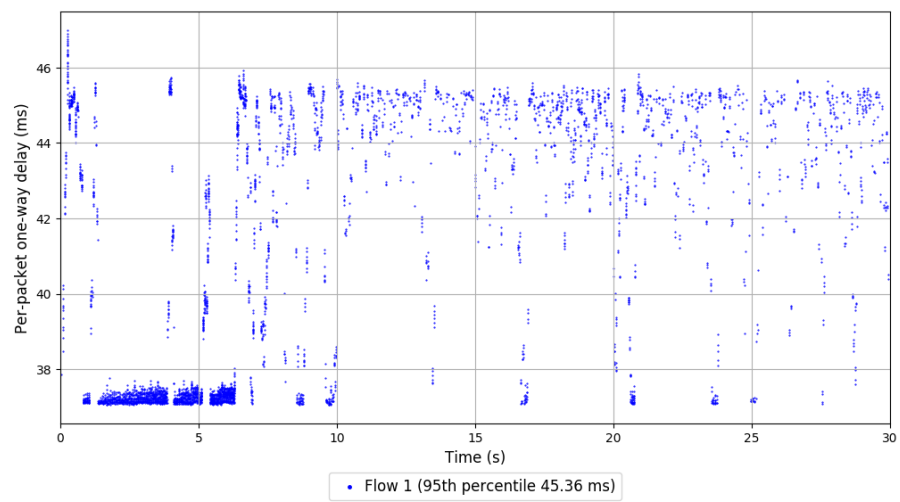
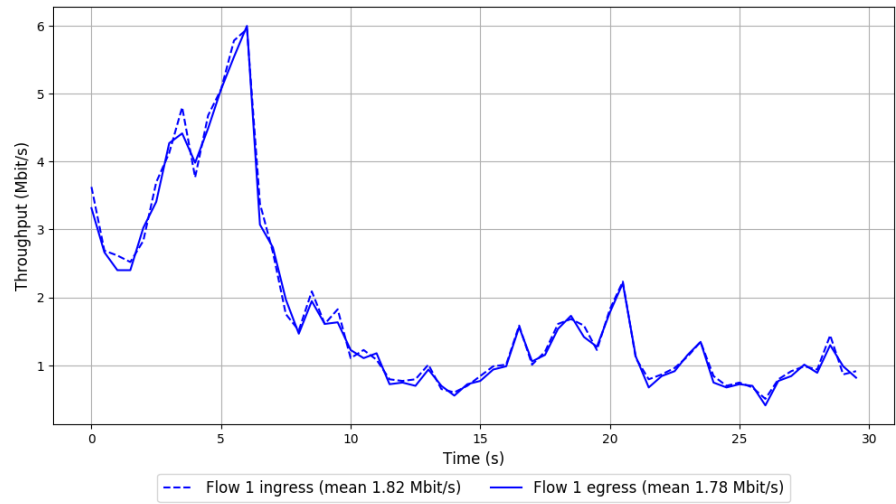
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 45.364 ms

Loss rate: 2.49%

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

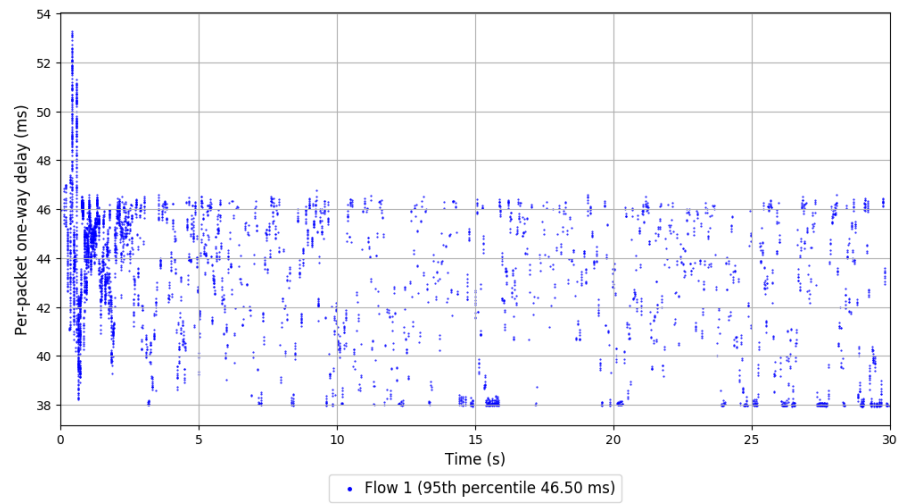
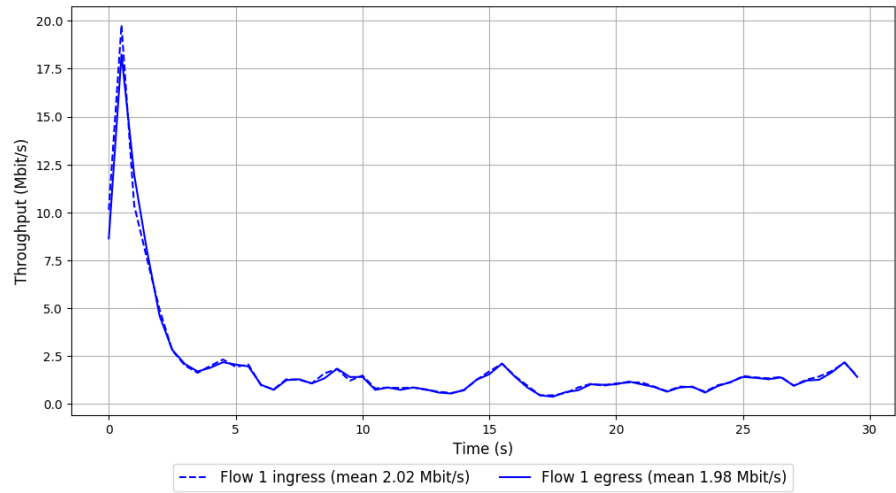


Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 03:32:01  
End at: 2018-04-17 03:32:31  
Local clock offset: 0.024 ms  
Remote clock offset: -5.626 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.98 Mbit/s  
95th percentile per-packet one-way delay: 46.504 ms  
Loss rate: 2.32%  
-- Flow 1:  
Average throughput: 1.98 Mbit/s  
95th percentile per-packet one-way delay: 46.504 ms  
Loss rate: 2.32%

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

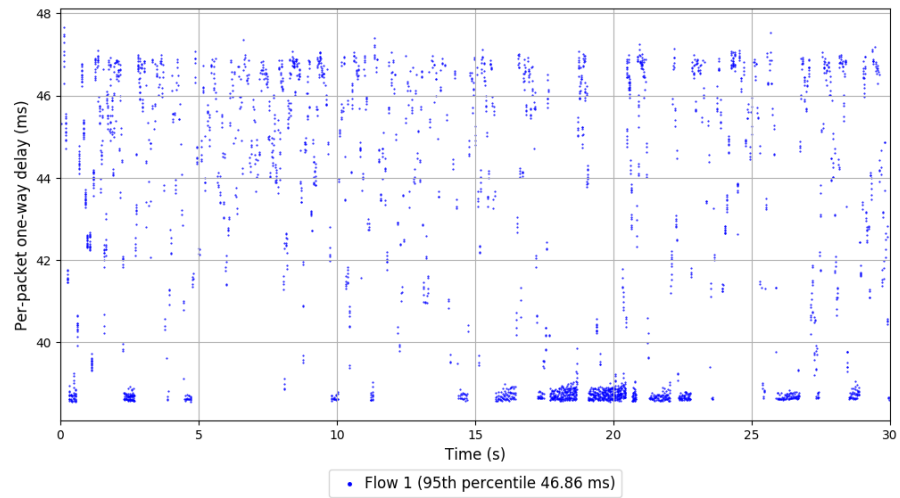
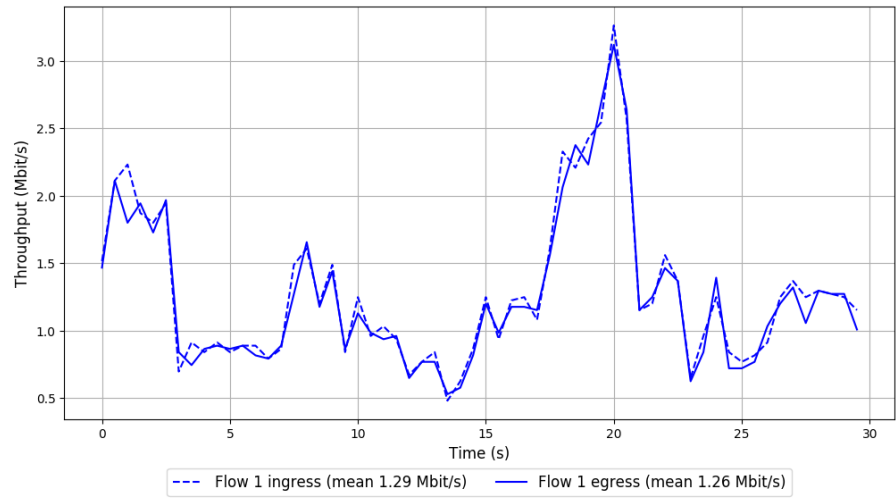


Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 04:00:04  
End at: 2018-04-17 04:00:34  
Local clock offset: 4.236 ms  
Remote clock offset: -3.311 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 46.857 ms  
Loss rate: 2.46%  
-- Flow 1:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 46.857 ms  
Loss rate: 2.46%

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



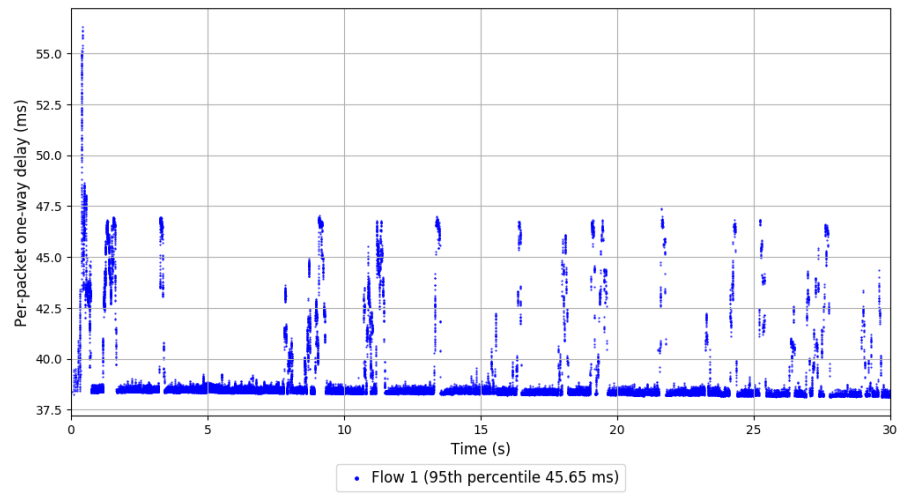
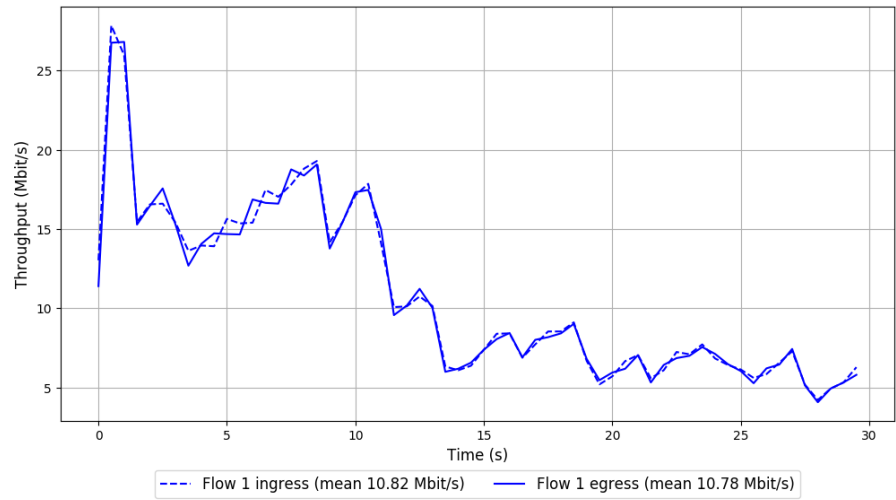
Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 04:26:40  
End at: 2018-04-17 04:27:10  
Local clock offset: 7.466 ms  
Remote clock offset: -3.718 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.78 Mbit/s  
95th percentile per-packet one-way delay: 45.653 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 10.78 Mbit/s  
95th percentile per-packet one-way delay: 45.653 ms  
Loss rate: 0.57%



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

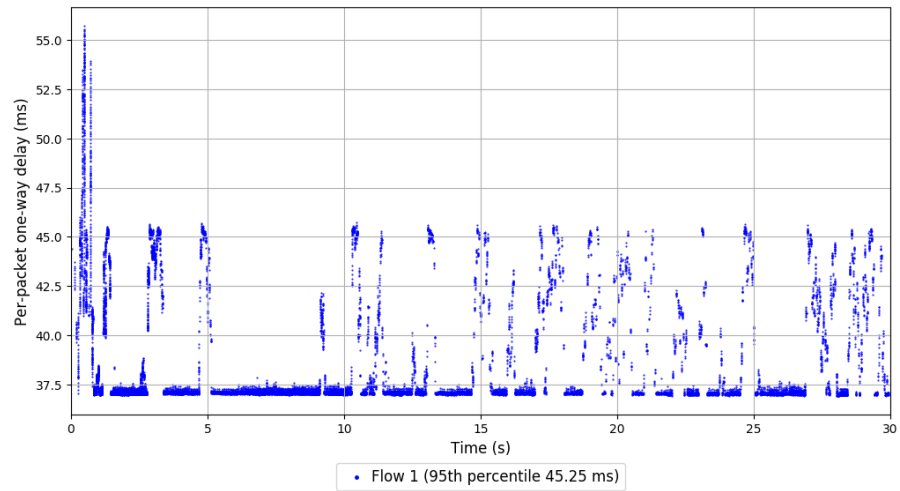
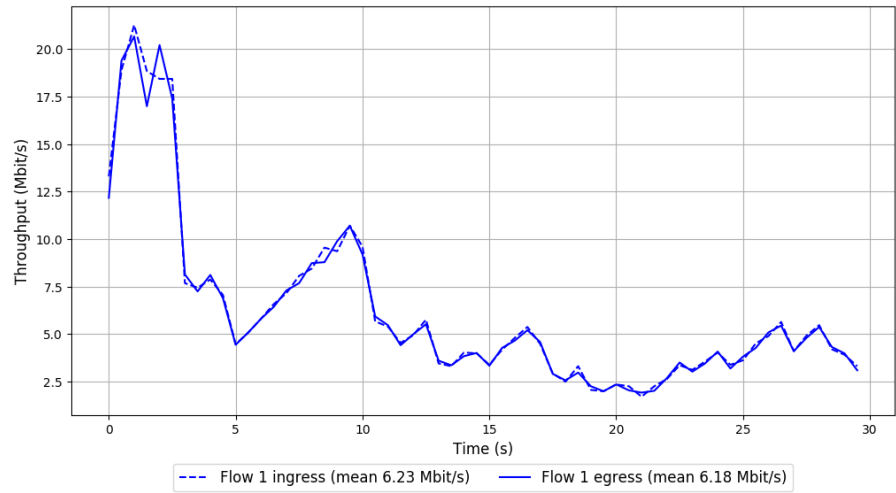


Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 04:51:10  
End at: 2018-04-17 04:51:40  
Local clock offset: 9.819 ms  
Remote clock offset: -7.938 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.18 Mbit/s  
95th percentile per-packet one-way delay: 45.248 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 6.18 Mbit/s  
95th percentile per-packet one-way delay: 45.248 ms  
Loss rate: 0.98%

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

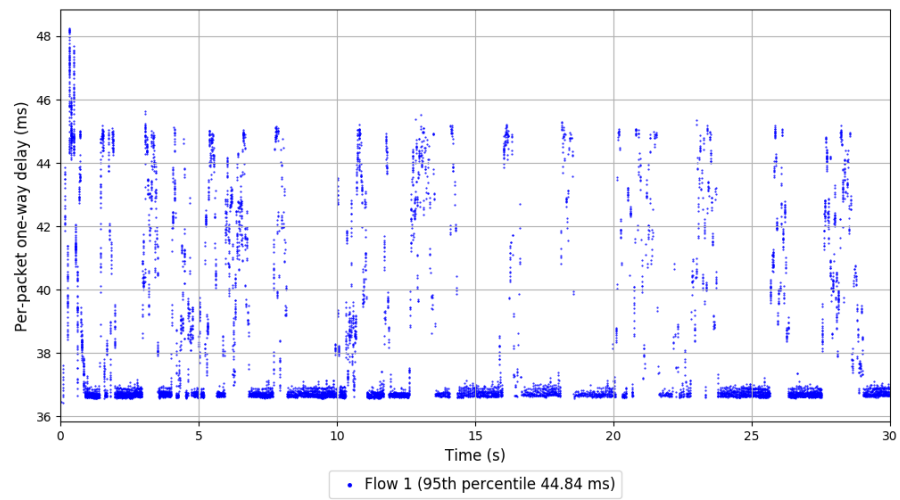
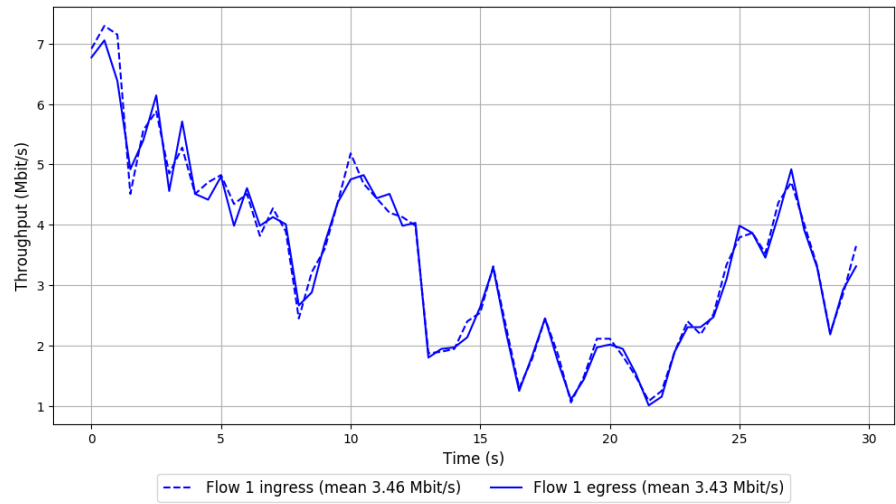


Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 05:17:35  
End at: 2018-04-17 05:18:05  
Local clock offset: 11.877 ms  
Remote clock offset: -0.433 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.43 Mbit/s  
95th percentile per-packet one-way delay: 44.839 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 3.43 Mbit/s  
95th percentile per-packet one-way delay: 44.839 ms  
Loss rate: 1.08%

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



Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 05:41:27

End at: 2018-04-17 05:41:57

Local clock offset: -1.386 ms

Remote clock offset: -1.514 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 42.560 ms

Loss rate: 0.39%

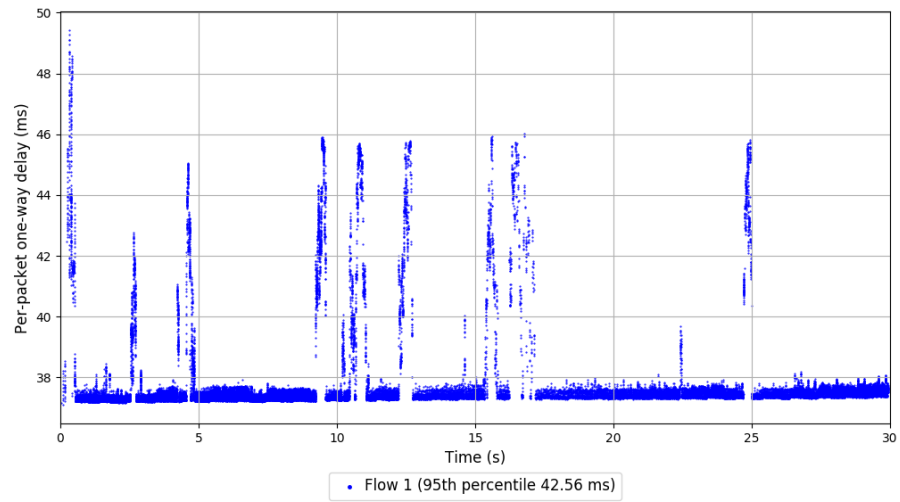
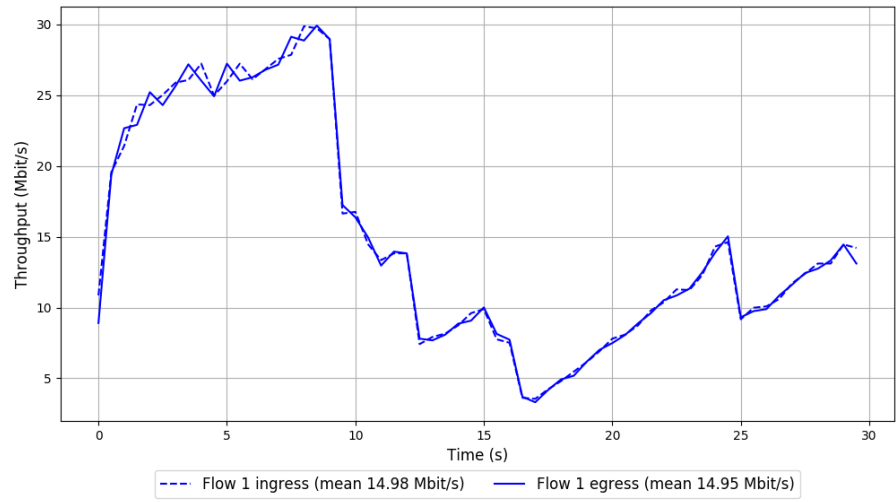
-- Flow 1:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 42.560 ms

Loss rate: 0.39%

# Run 10: Report of TCP Cubic — Data Link



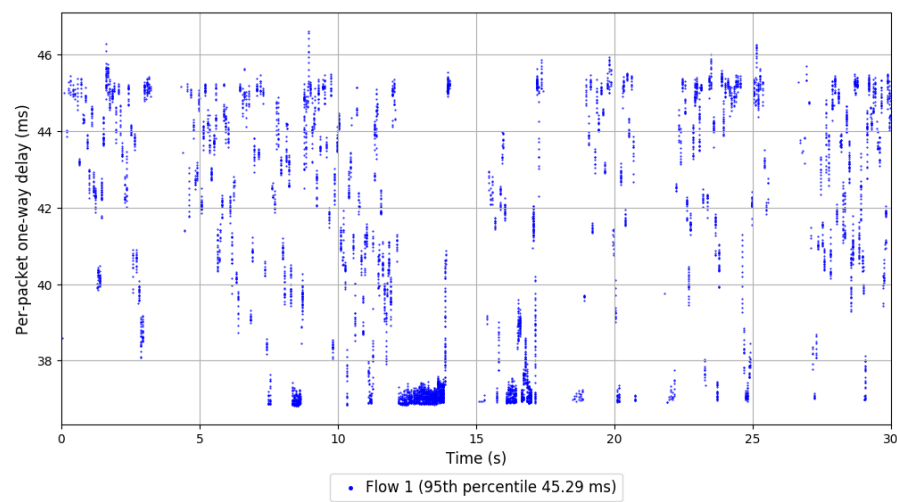
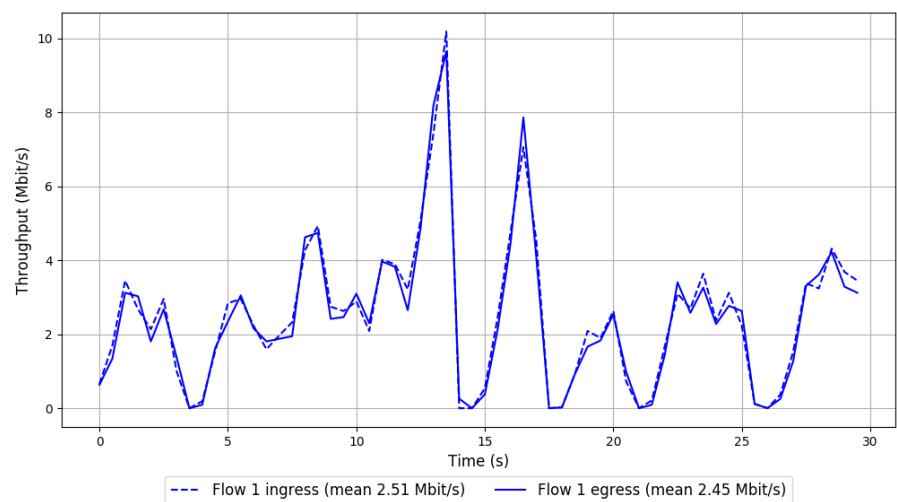
```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 01:39:03
End at: 2018-04-17 01:39:33
Local clock offset: 1.382 ms
Remote clock offset: 3.229 ms

# Below is generated by plot.py at 2018-04-17 09:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 45.288 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 45.288 ms
Loss rate: 2.59%
```



Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-17 02:05:10

End at: 2018-04-17 02:05:40

Local clock offset: -0.18 ms

Remote clock offset: 7.322 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 46.343 ms

Loss rate: 2.79%

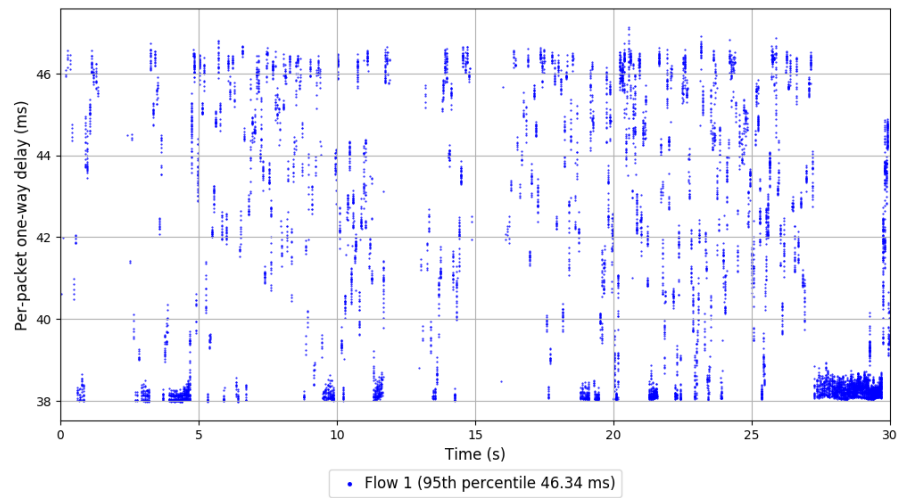
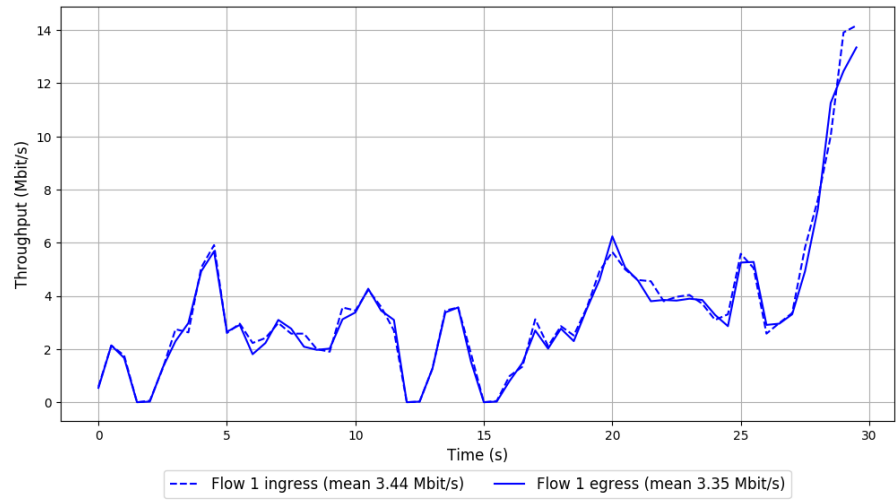
-- Flow 1:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 46.343 ms

Loss rate: 2.79%

## Run 2: Report of LEDBAT — Data Link

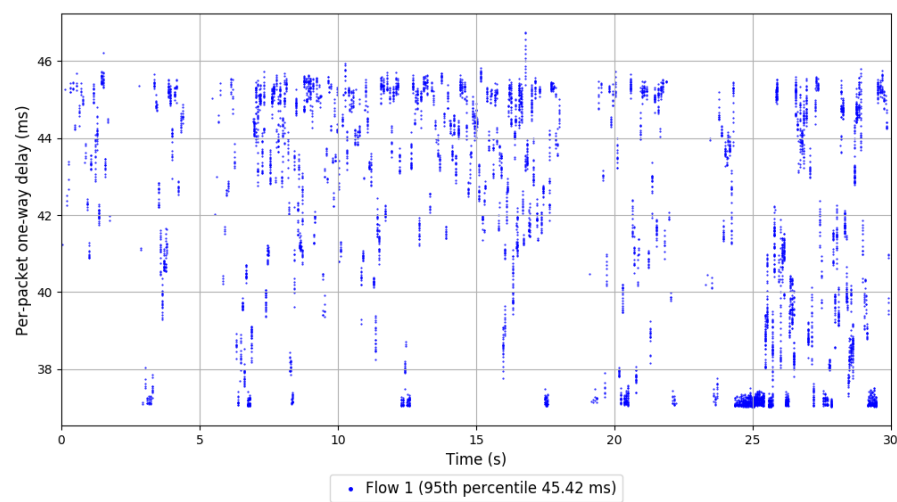
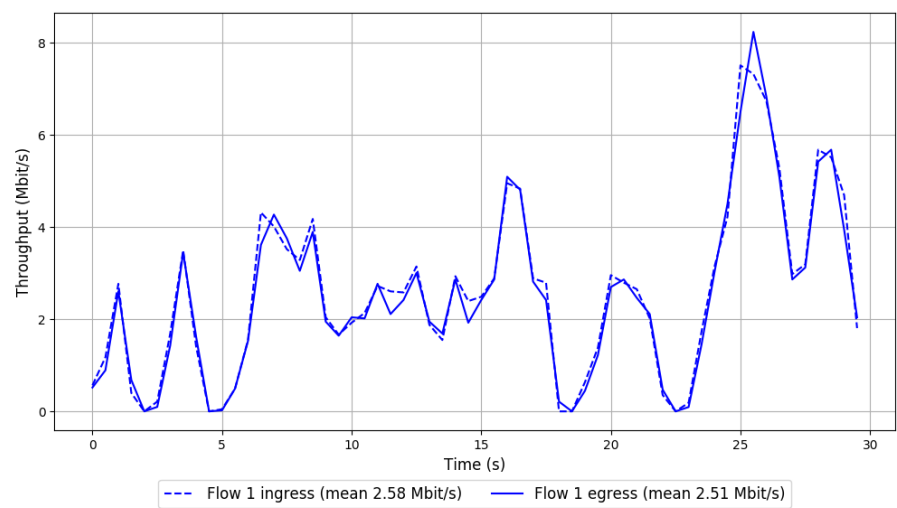


Run 3: Statistics of LEDBAT

Start at: 2018-04-17 02:32:45  
End at: 2018-04-17 02:33:15  
Local clock offset: -0.414 ms  
Remote clock offset: -2.748 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.51 Mbit/s  
95th percentile per-packet one-way delay: 45.419 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 2.51 Mbit/s  
95th percentile per-packet one-way delay: 45.419 ms  
Loss rate: 2.80%

Run 3: Report of LEDBAT — Data Link

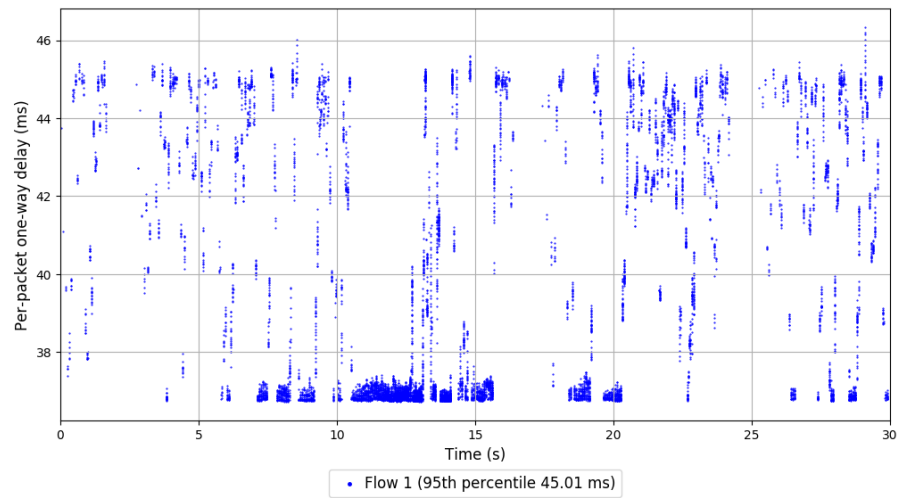
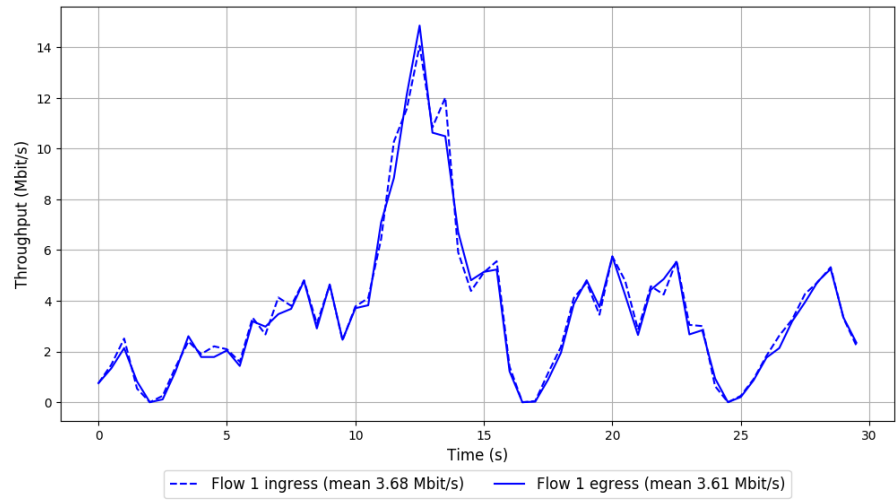


Run 4: Statistics of LEDBAT

Start at: 2018-04-17 03:01:07  
End at: 2018-04-17 03:01:37  
Local clock offset: -0.318 ms  
Remote clock offset: -2.741 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.61 Mbit/s  
95th percentile per-packet one-way delay: 45.010 ms  
Loss rate: 2.06%  
-- Flow 1:  
Average throughput: 3.61 Mbit/s  
95th percentile per-packet one-way delay: 45.010 ms  
Loss rate: 2.06%

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



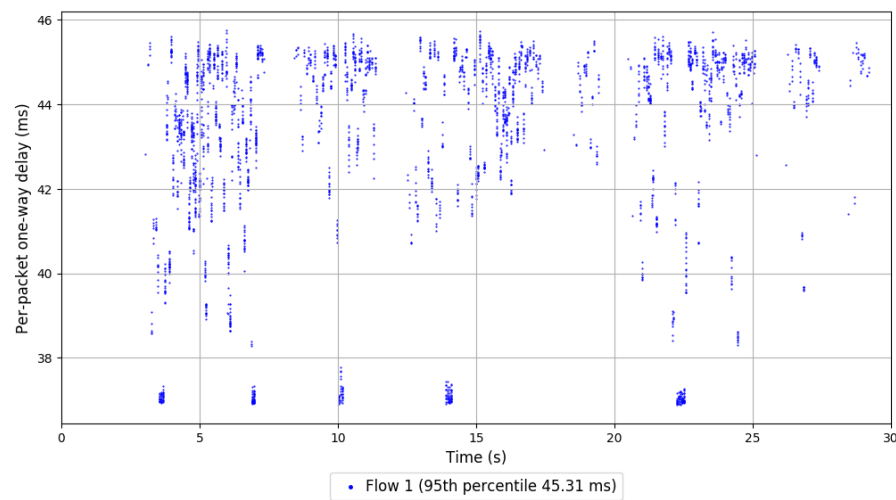
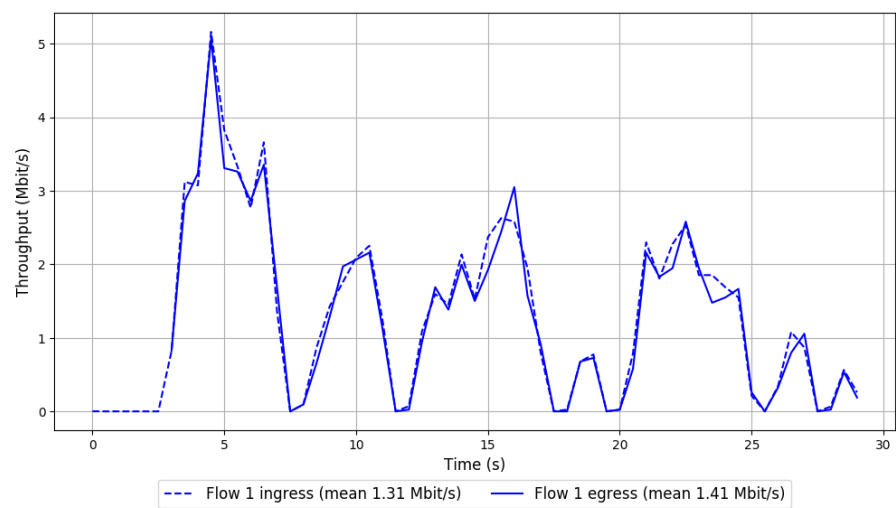
Run 5: Statistics of LEDBAT

Start at: 2018-04-17 03:30:41  
End at: 2018-04-17 03:31:11  
Local clock offset: -0.069 ms  
Remote clock offset: -5.926 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.41 Mbit/s  
95th percentile per-packet one-way delay: 45.308 ms  
Loss rate: 3.89%  
-- Flow 1:  
Average throughput: 1.41 Mbit/s  
95th percentile per-packet one-way delay: 45.308 ms  
Loss rate: 3.89%



Run 5: Report of LEDBAT — Data Link

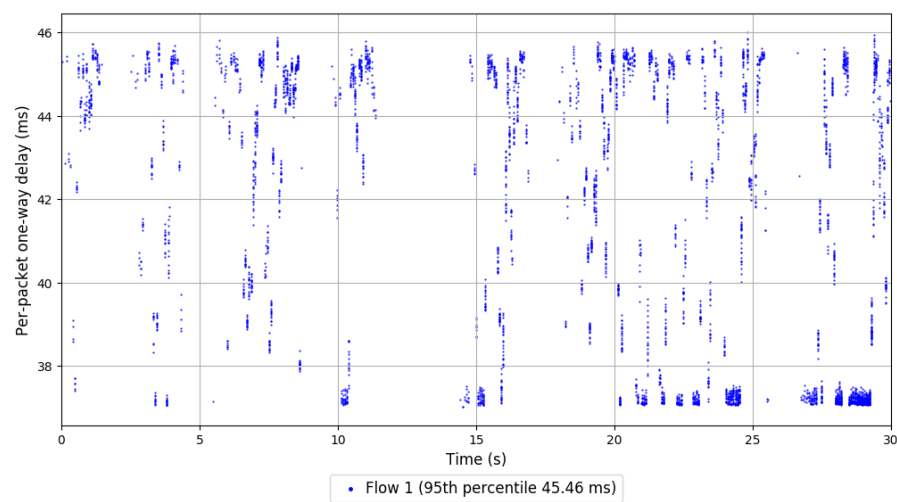
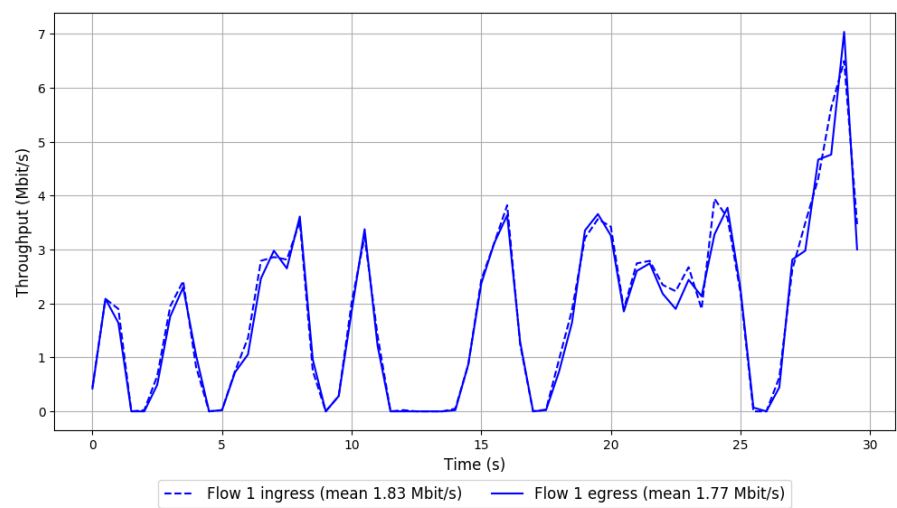


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 03:58:45  
End at: 2018-04-17 03:59:15  
Local clock offset: 4.111 ms  
Remote clock offset: -3.472 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.77 Mbit/s  
95th percentile per-packet one-way delay: 45.456 ms  
Loss rate: 3.51%  
-- Flow 1:  
Average throughput: 1.77 Mbit/s  
95th percentile per-packet one-way delay: 45.456 ms  
Loss rate: 3.51%

Run 6: Report of LEDBAT — Data Link

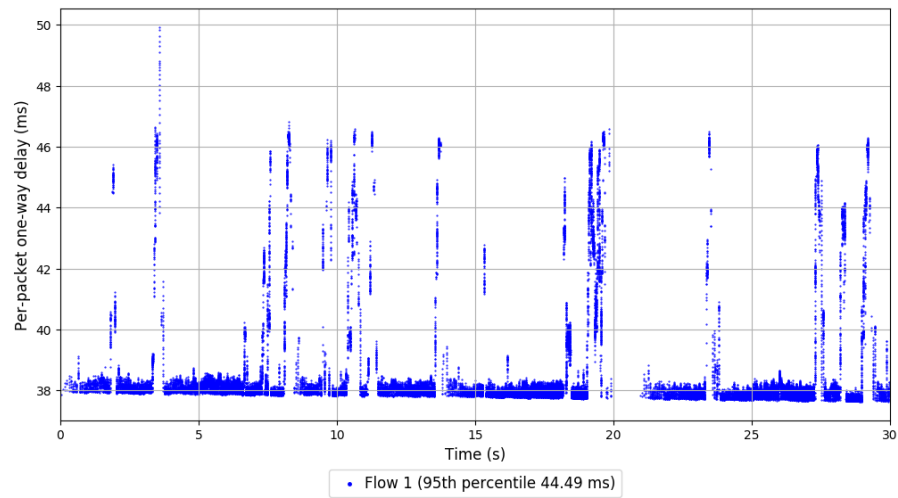
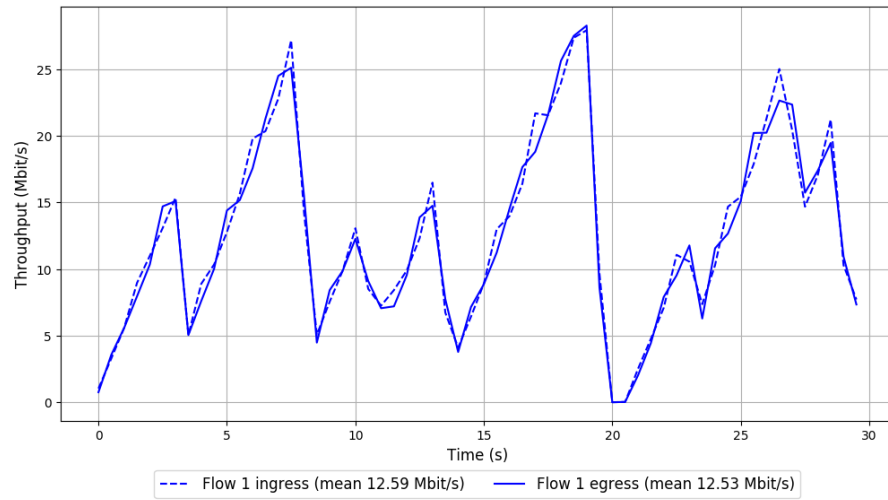


Run 7: Statistics of LEDBAT

Start at: 2018-04-17 04:25:18  
End at: 2018-04-17 04:25:48  
Local clock offset: 7.277 ms  
Remote clock offset: -2.753 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.53 Mbit/s  
95th percentile per-packet one-way delay: 44.493 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 12.53 Mbit/s  
95th percentile per-packet one-way delay: 44.493 ms  
Loss rate: 0.68%

## Run 7: Report of LEDBAT — Data Link

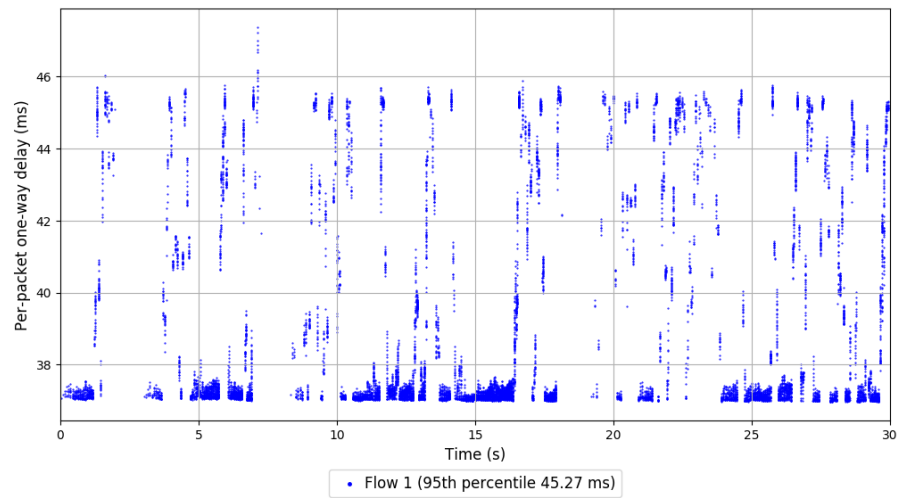
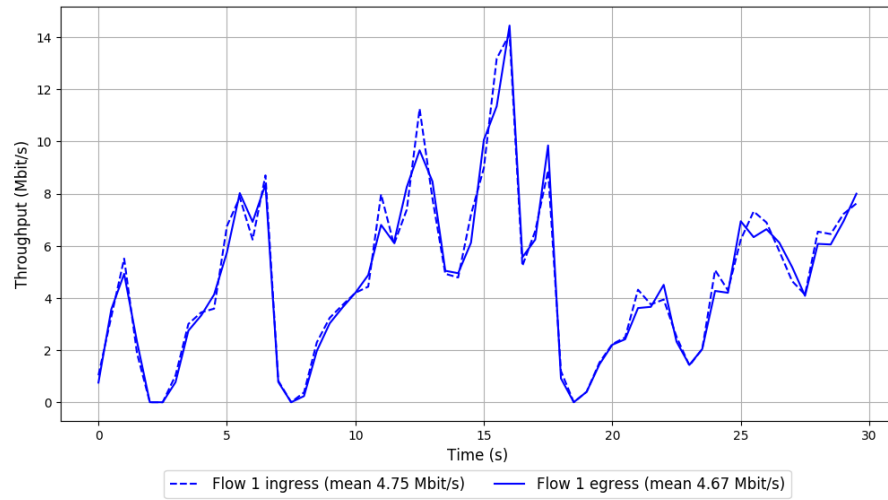


Run 8: Statistics of LEDBAT

Start at: 2018-04-17 04:49:53  
End at: 2018-04-17 04:50:23  
Local clock offset: 9.611 ms  
Remote clock offset: -7.968 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.67 Mbit/s  
95th percentile per-packet one-way delay: 45.274 ms  
Loss rate: 1.69%  
-- Flow 1:  
Average throughput: 4.67 Mbit/s  
95th percentile per-packet one-way delay: 45.274 ms  
Loss rate: 1.69%

## Run 8: Report of LEDBAT — Data Link



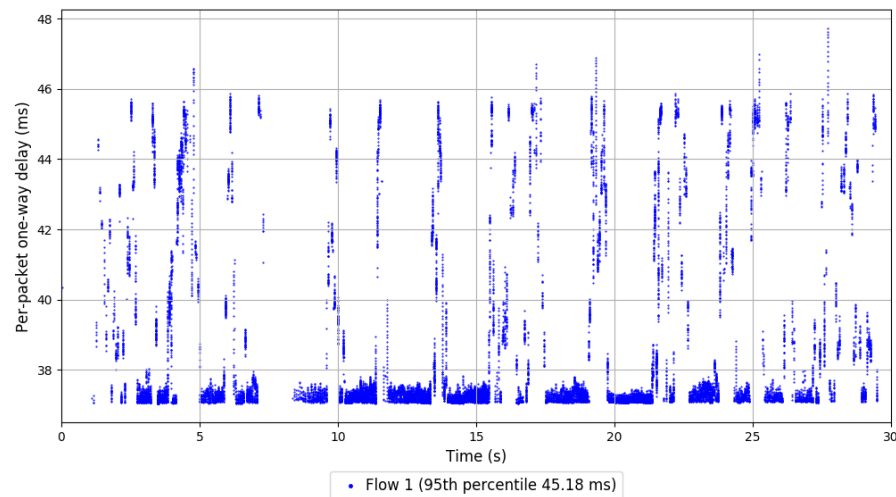
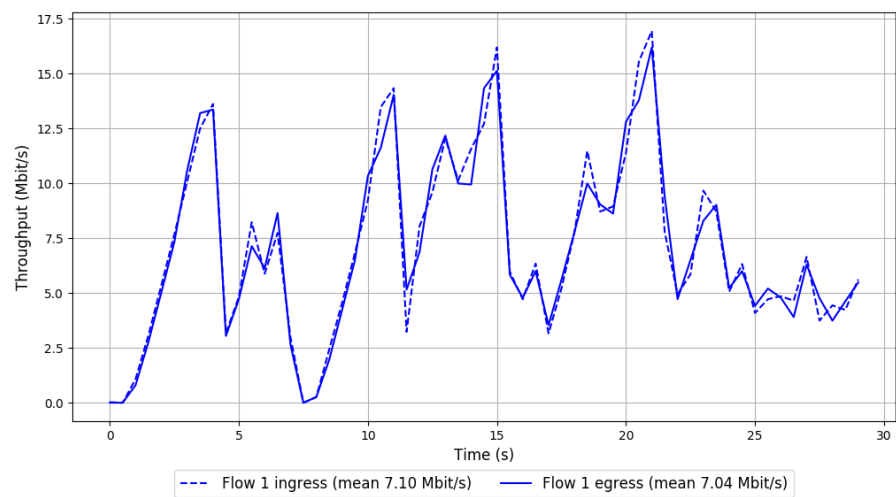
Run 9: Statistics of LEDBAT

Start at: 2018-04-17 05:16:17  
End at: 2018-04-17 05:16:47  
Local clock offset: 11.818 ms  
Remote clock offset: -1.049 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.04 Mbit/s  
95th percentile per-packet one-way delay: 45.183 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 7.04 Mbit/s  
95th percentile per-packet one-way delay: 45.183 ms  
Loss rate: 0.83%



Run 9: Report of LEDBAT — Data Link

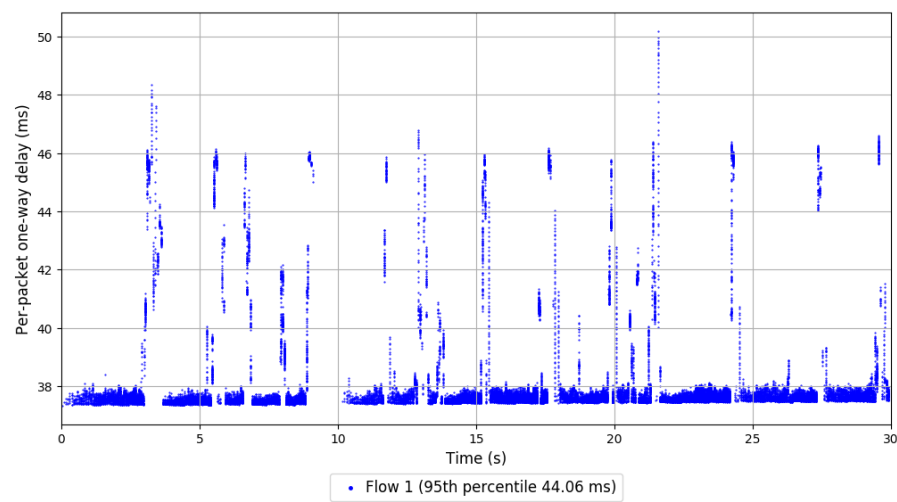
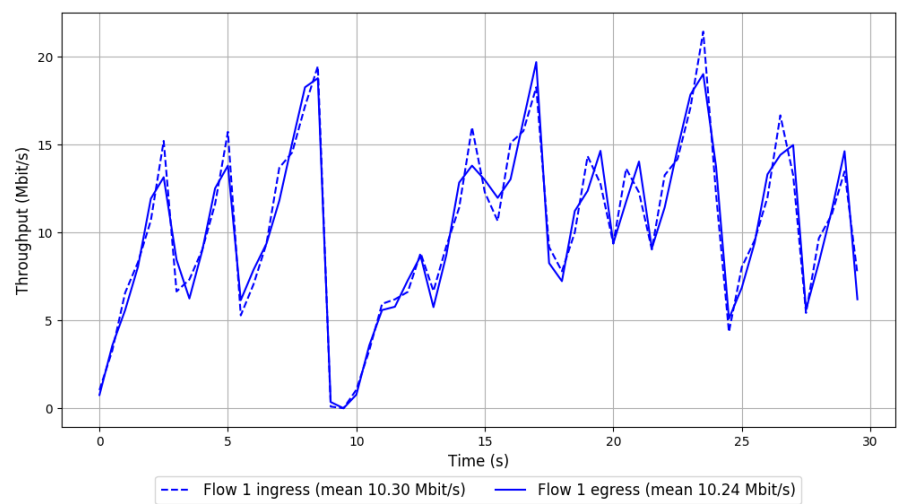


Run 10: Statistics of LEDBAT

Start at: 2018-04-17 05:40:10  
End at: 2018-04-17 05:40:40  
Local clock offset: -0.882 ms  
Remote clock offset: -1.463 ms

# Below is generated by plot.py at 2018-04-17 09:45:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.24 Mbit/s  
95th percentile per-packet one-way delay: 44.065 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 10.24 Mbit/s  
95th percentile per-packet one-way delay: 44.065 ms  
Loss rate: 0.75%

Run 10: Report of LEDBAT — Data Link

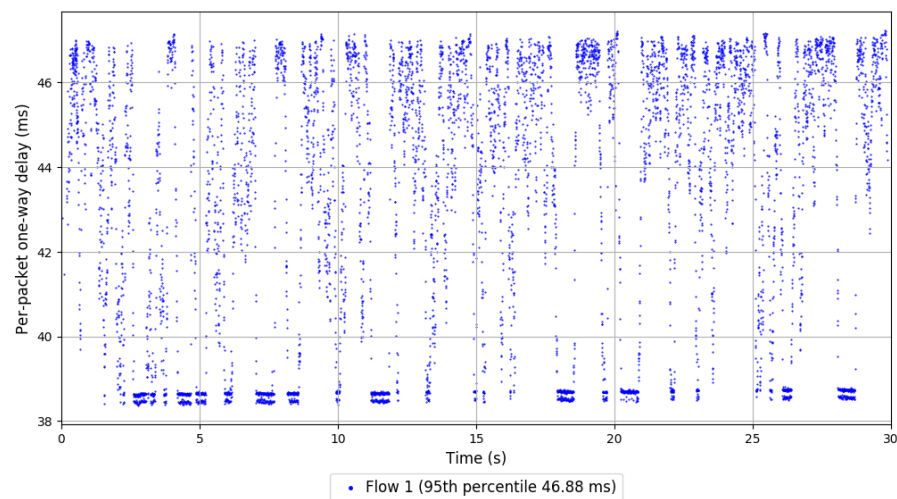
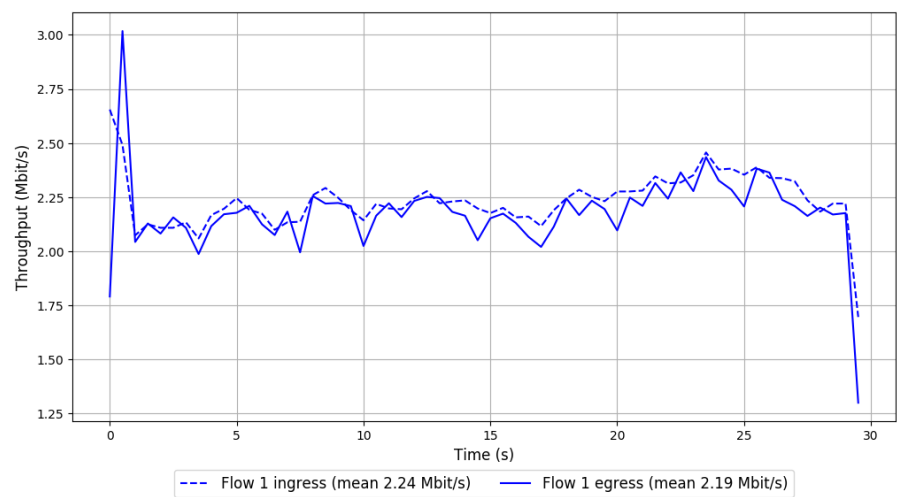


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 01:43:18
End at: 2018-04-17 01:43:48
Local clock offset: 0.791 ms
Remote clock offset: 3.392 ms

# Below is generated by plot.py at 2018-04-17 09:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 46.879 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 46.879 ms
Loss rate: 2.43%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 02:09:22

End at: 2018-04-17 02:09:52

Local clock offset: -0.243 ms

Remote clock offset: 3.671 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 45.003 ms

Loss rate: 1.94%

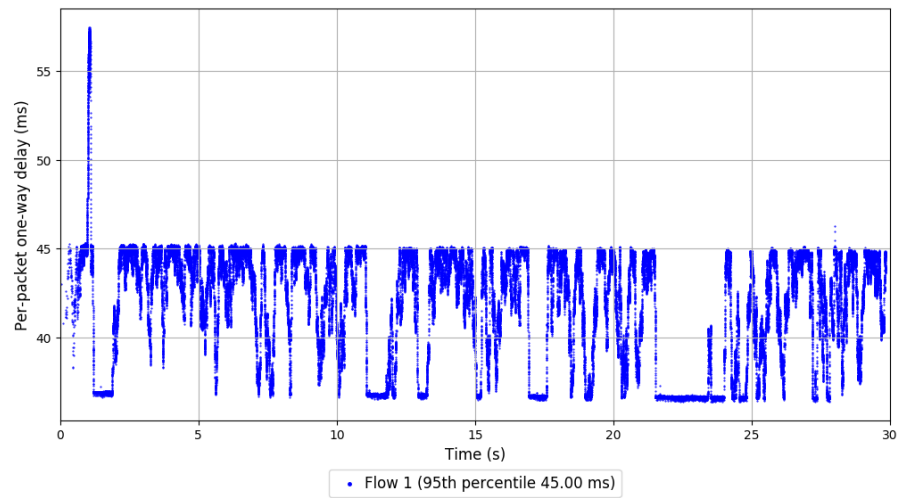
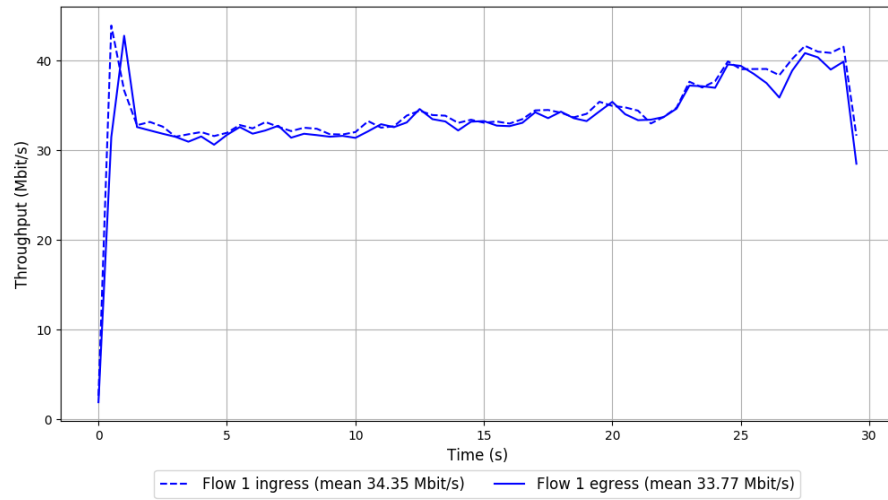
-- Flow 1:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 45.003 ms

Loss rate: 1.94%

## Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 02:37:22

End at: 2018-04-17 02:37:52

Local clock offset: -0.338 ms

Remote clock offset: -2.616 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 44.896 ms

Loss rate: 3.50%

-- Flow 1:

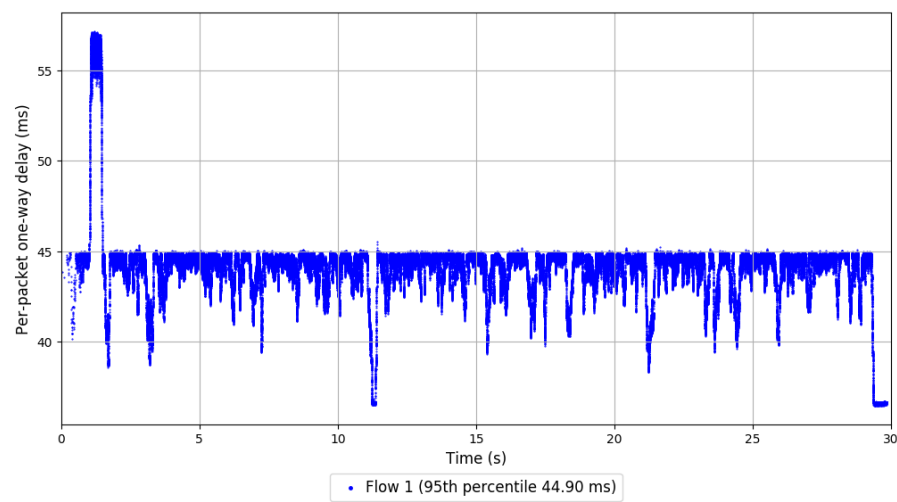
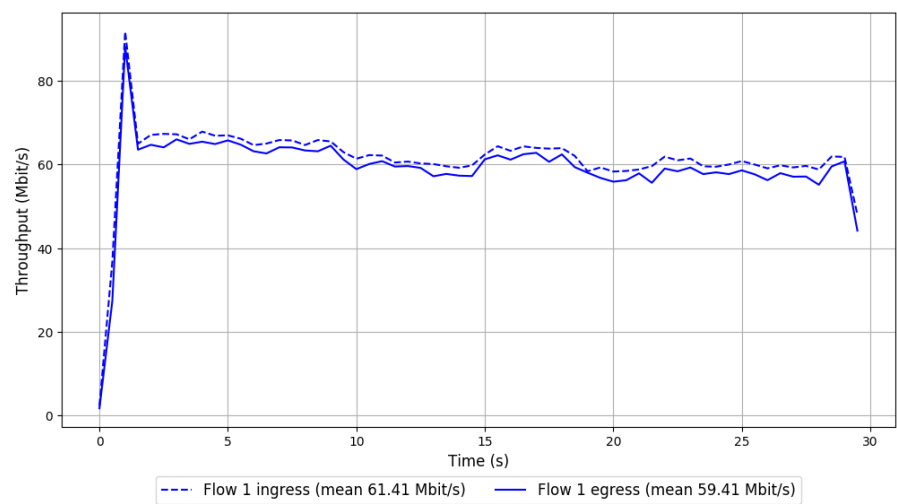
Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 44.896 ms

Loss rate: 3.50%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 03:05:48

End at: 2018-04-17 03:06:18

Local clock offset: -0.432 ms

Remote clock offset: -2.782 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 44.706 ms

Loss rate: 3.89%

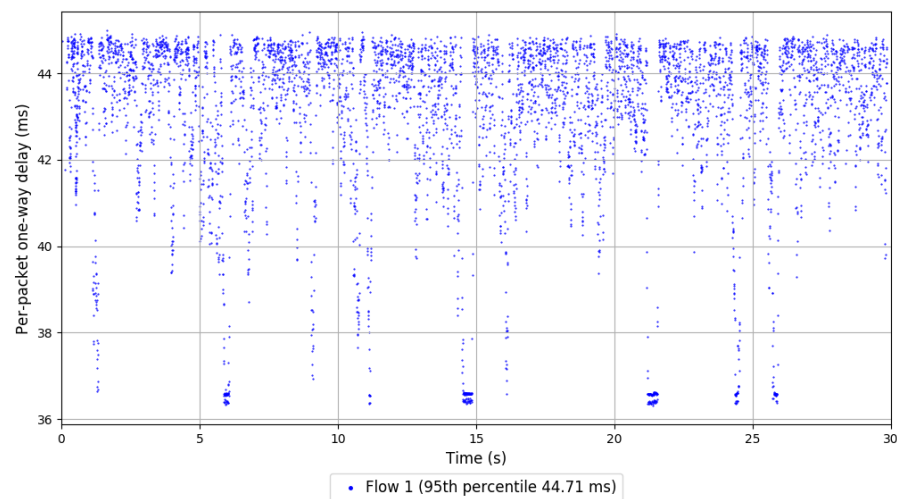
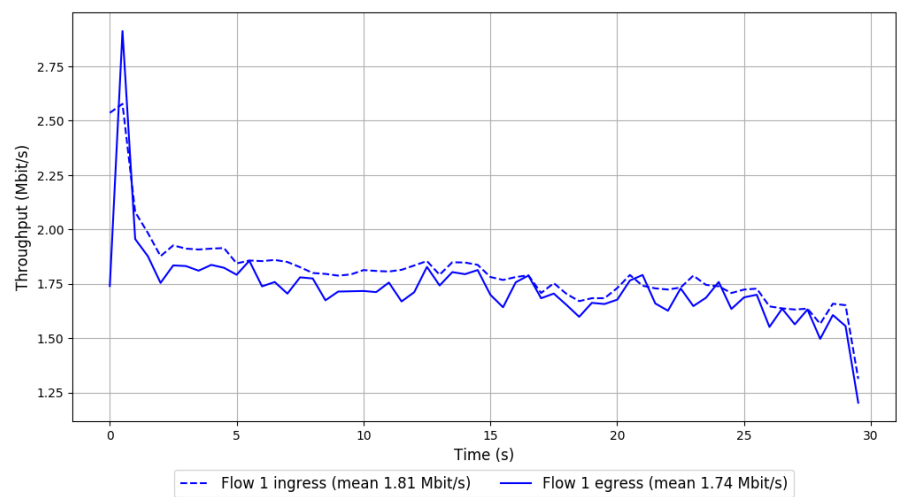
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 44.706 ms

Loss rate: 3.89%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 03:35:15

End at: 2018-04-17 03:35:45

Local clock offset: -0.067 ms

Remote clock offset: -5.894 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 44.691 ms

Loss rate: 2.30%

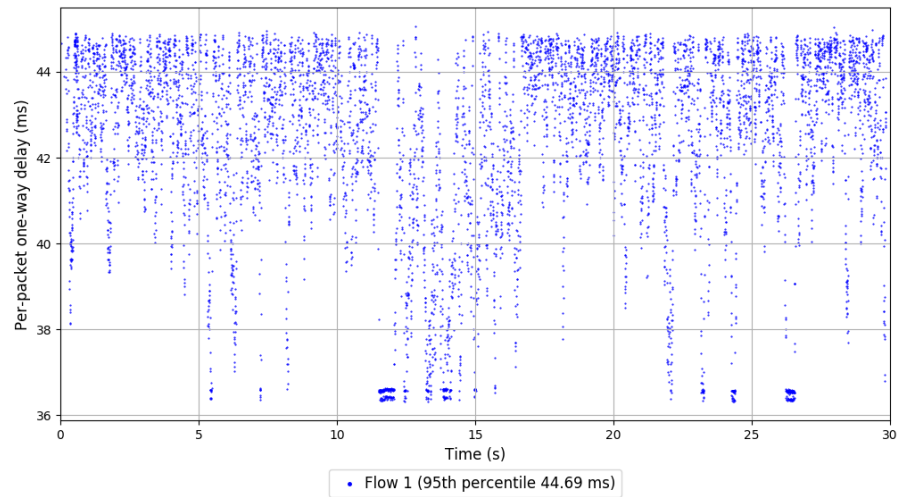
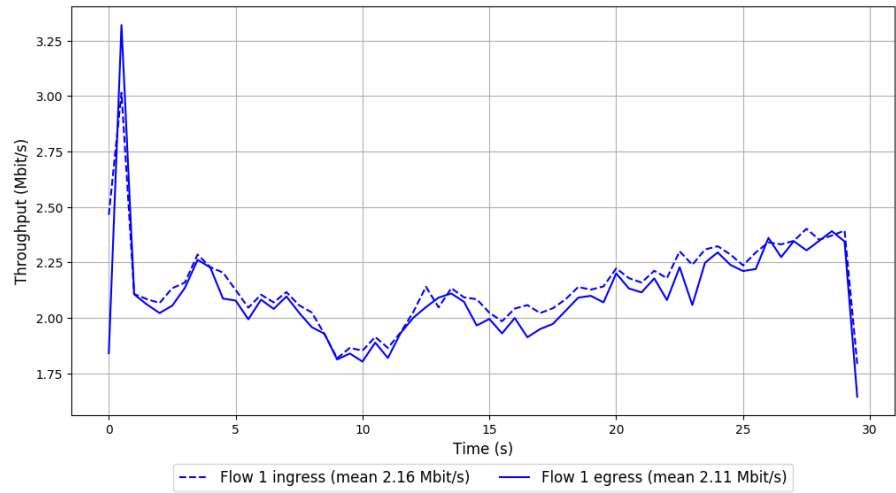
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 44.691 ms

Loss rate: 2.30%

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



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 04:03:13

End at: 2018-04-17 04:03:43

Local clock offset: 4.479 ms

Remote clock offset: -2.774 ms

# Below is generated by plot.py at 2018-04-17 09:45:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 45.247 ms

Loss rate: 2.96%

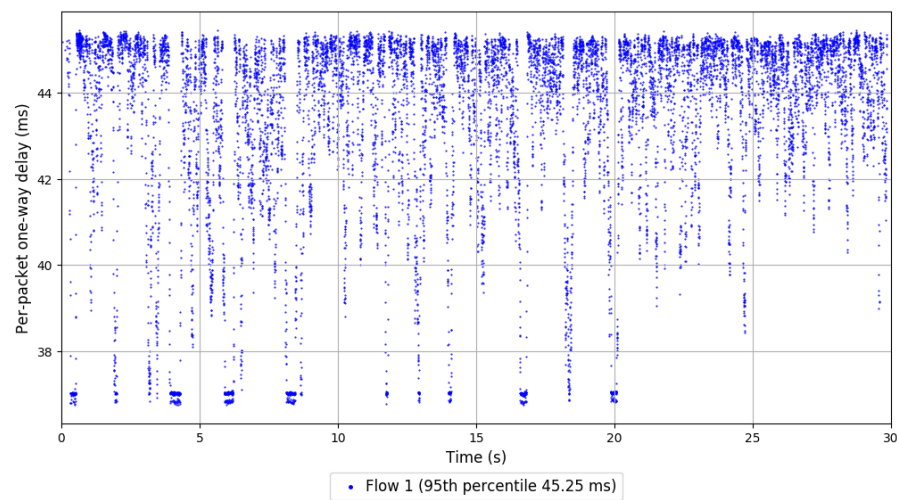
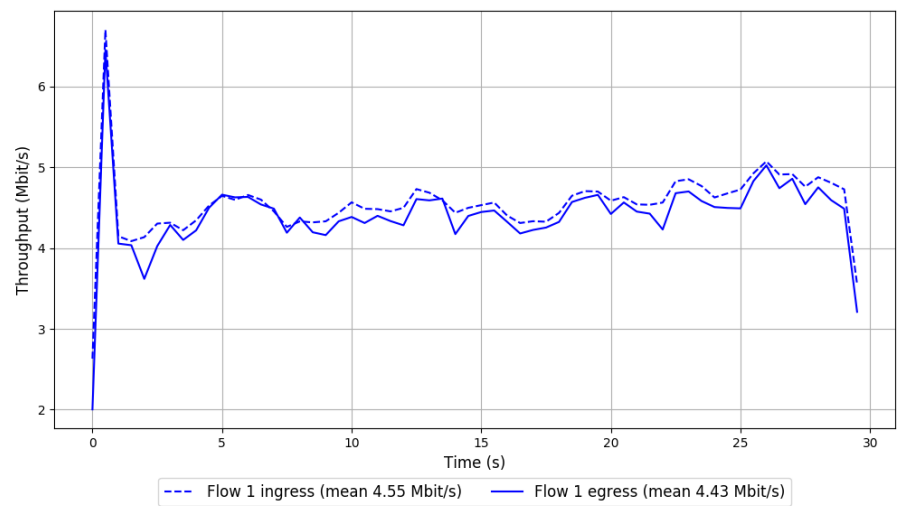
-- Flow 1:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 45.247 ms

Loss rate: 2.96%

Run 6: Report of PCC-Allegro — Data Link



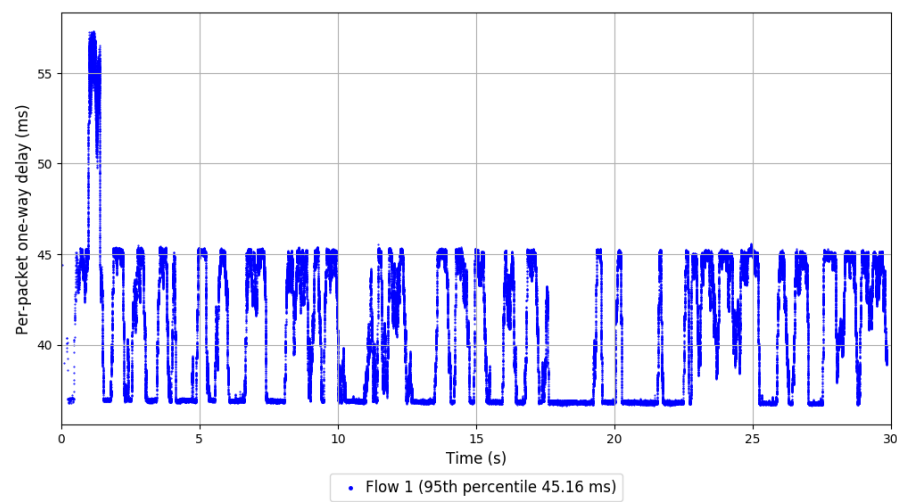
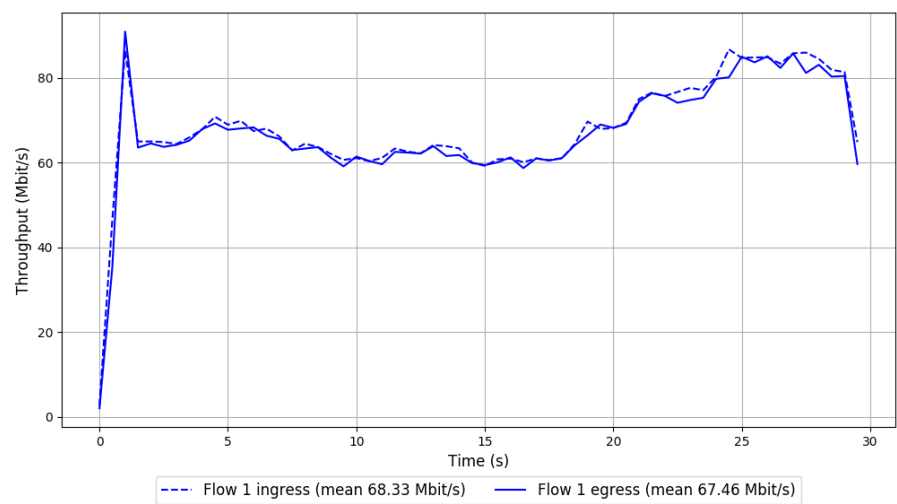
Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 04:29:30  
End at: 2018-04-17 04:30:00  
Local clock offset: 7.824 ms  
Remote clock offset: -4.738 ms

# Below is generated by plot.py at 2018-04-17 09:45:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 67.46 Mbit/s  
95th percentile per-packet one-way delay: 45.158 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 67.46 Mbit/s  
95th percentile per-packet one-way delay: 45.158 ms  
Loss rate: 1.52%



Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 04:53:56

End at: 2018-04-17 04:54:26

Local clock offset: 9.908 ms

Remote clock offset: -8.159 ms

# Below is generated by plot.py at 2018-04-17 09:45:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 45.148 ms

Loss rate: 1.72%

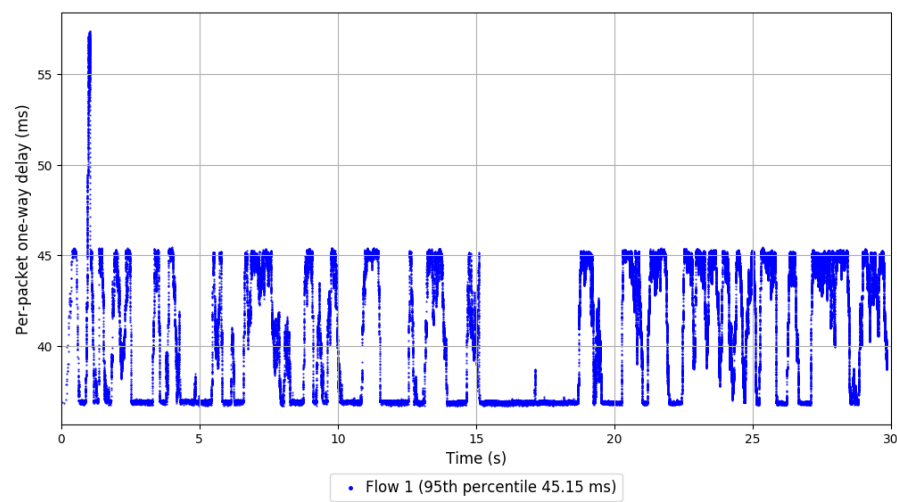
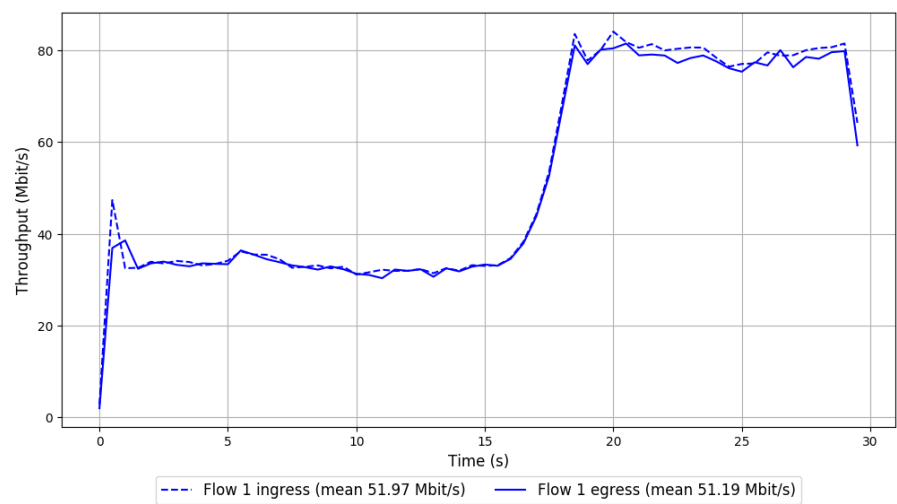
-- Flow 1:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 45.148 ms

Loss rate: 1.72%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 05:20:21

End at: 2018-04-17 05:20:51

Local clock offset: 12.205 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-04-17 09:45:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.81 Mbit/s

95th percentile per-packet one-way delay: 44.781 ms

Loss rate: 1.06%

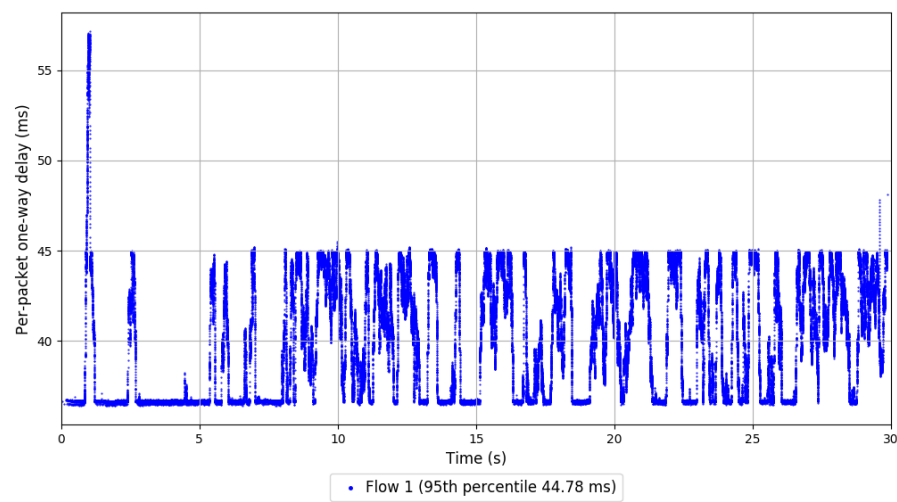
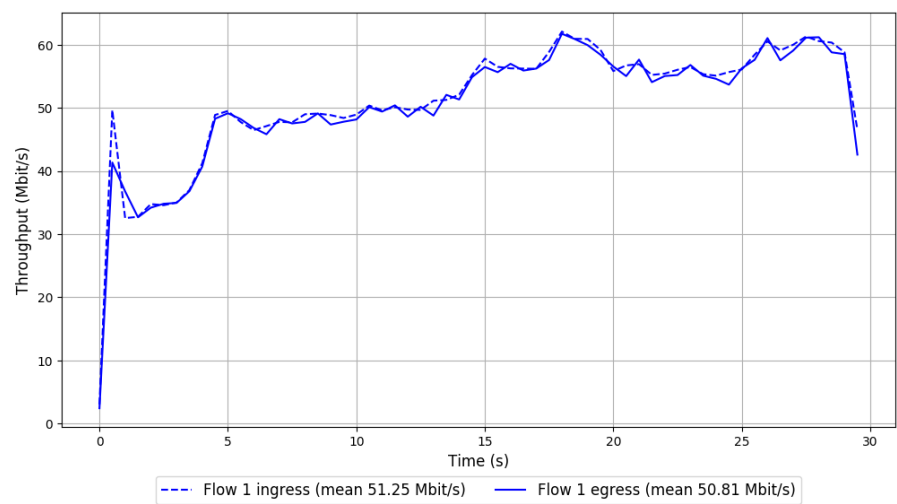
-- Flow 1:

Average throughput: 50.81 Mbit/s

95th percentile per-packet one-way delay: 44.781 ms

Loss rate: 1.06%

Run 9: Report of PCC-Allegro — Data Link

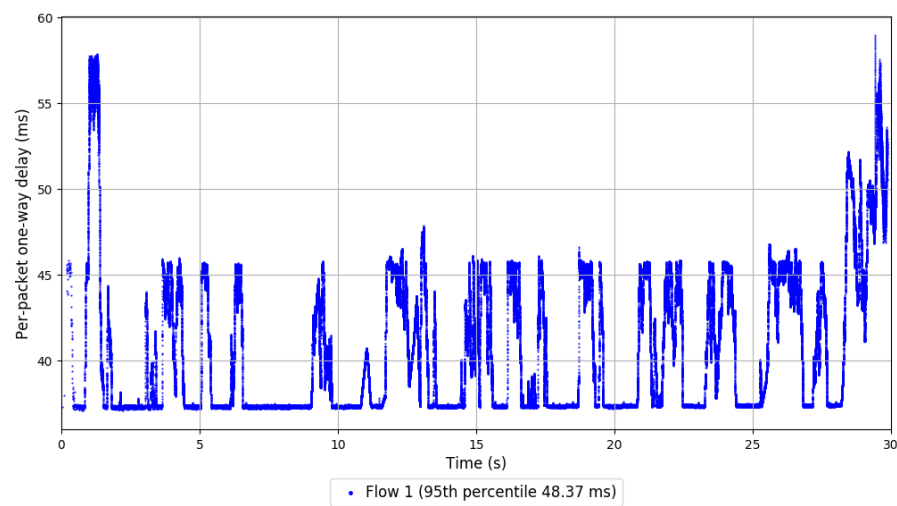
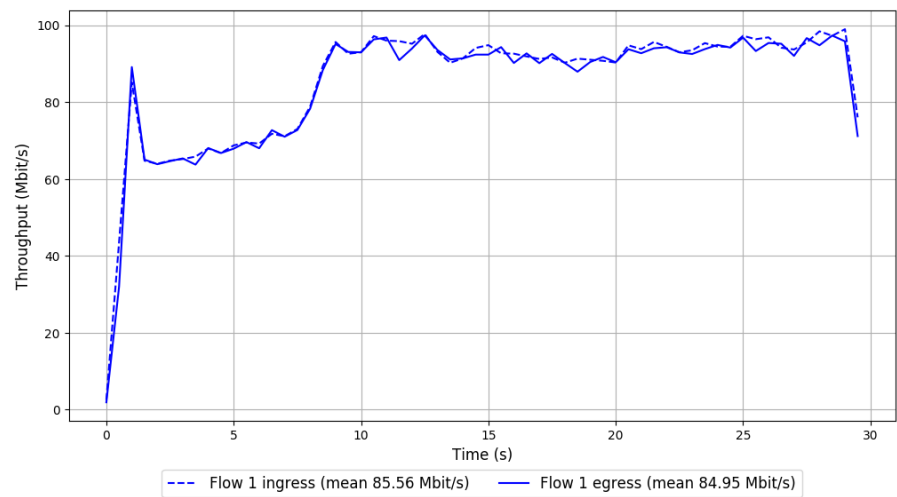


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 05:44:07  
End at: 2018-04-17 05:44:37  
Local clock offset: -2.318 ms  
Remote clock offset: -1.754 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.95 Mbit/s  
95th percentile per-packet one-way delay: 48.365 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 84.95 Mbit/s  
95th percentile per-packet one-way delay: 48.365 ms  
Loss rate: 0.94%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 01:27:41

End at: 2018-04-17 01:28:11

Local clock offset: 5.22 ms

Remote clock offset: 0.872 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 46.063 ms

Loss rate: 4.01%

-- Flow 1:

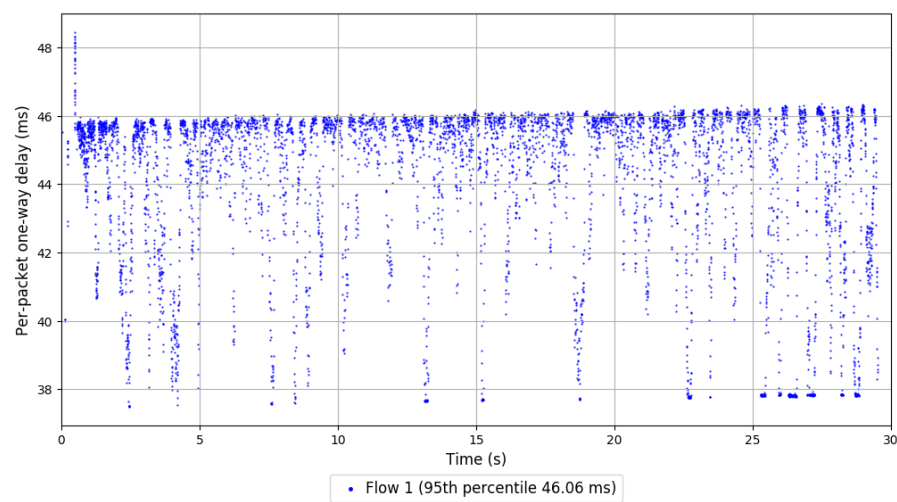
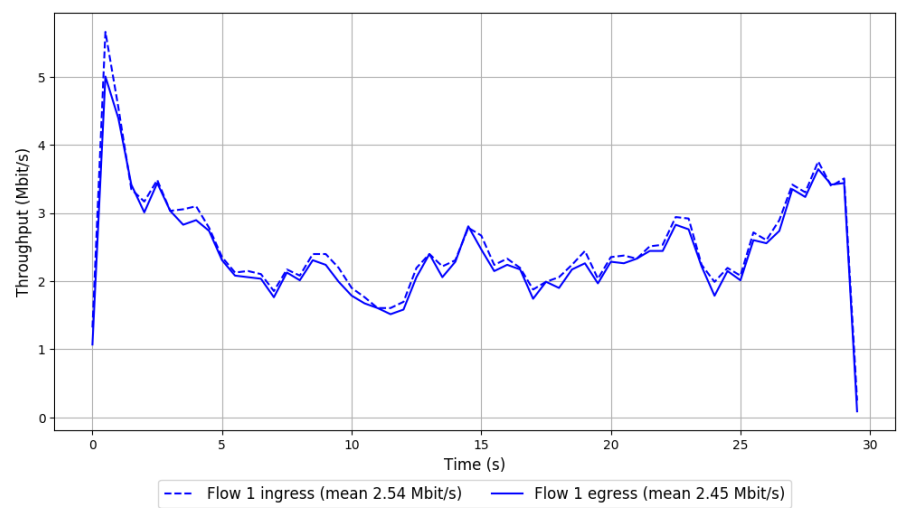
Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 46.063 ms

Loss rate: 4.01%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 01:54:15

End at: 2018-04-17 01:54:45

Local clock offset: -0.121 ms

Remote clock offset: 5.115 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 45.417 ms

Loss rate: 1.19%

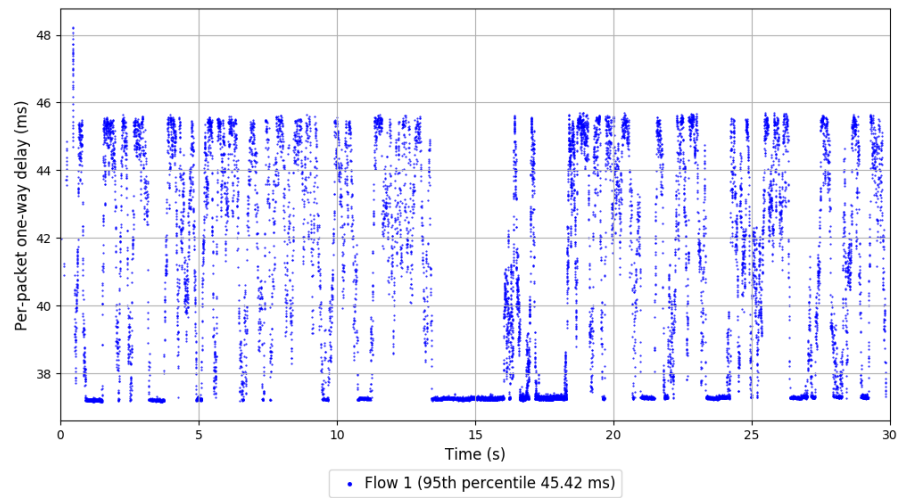
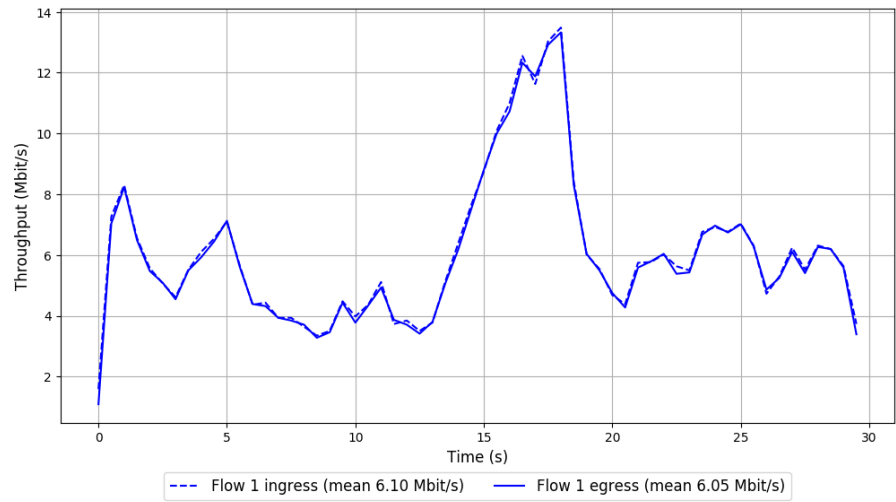
-- Flow 1:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 45.417 ms

Loss rate: 1.19%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 02:20:36

End at: 2018-04-17 02:21:06

Local clock offset: -0.231 ms

Remote clock offset: -1.204 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 45.120 ms

Loss rate: 2.02%

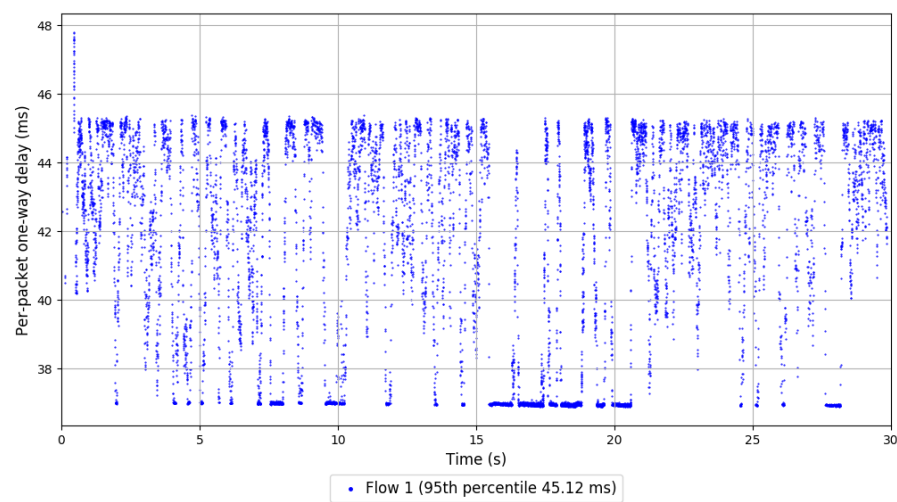
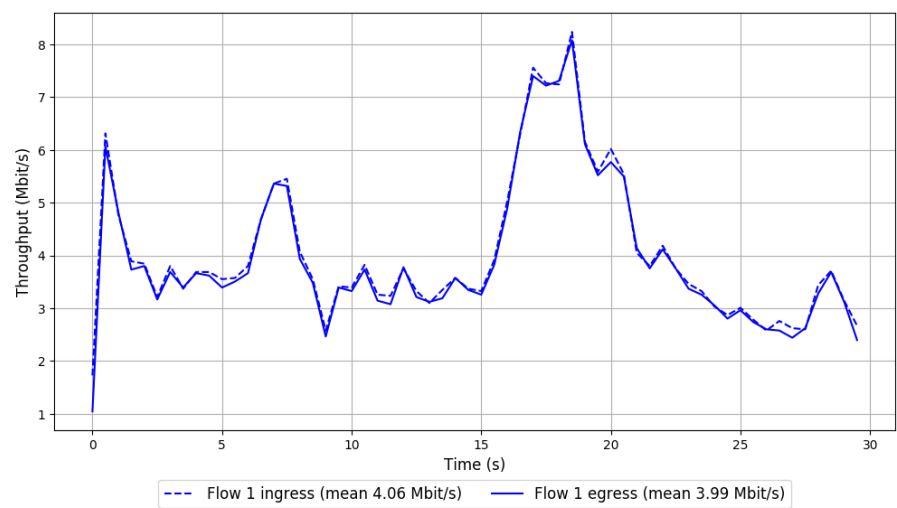
-- Flow 1:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 45.120 ms

Loss rate: 2.02%

Run 3: Report of QUIC Cubic — Data Link

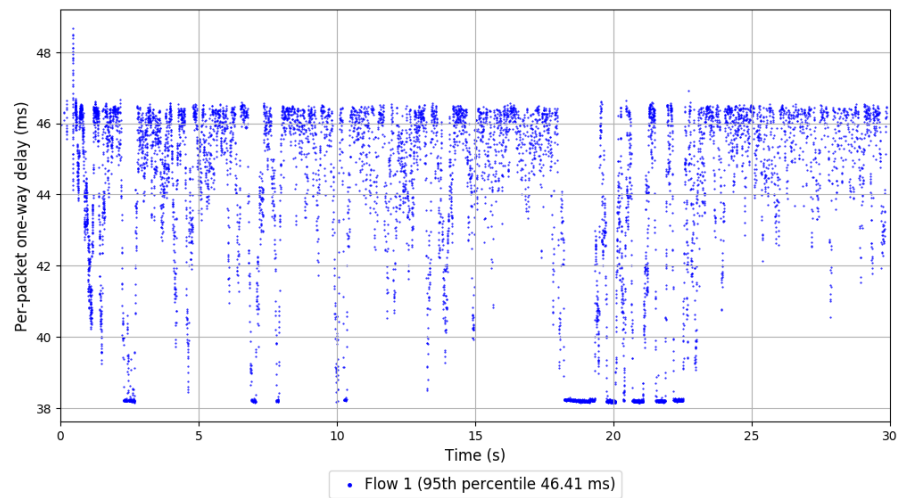
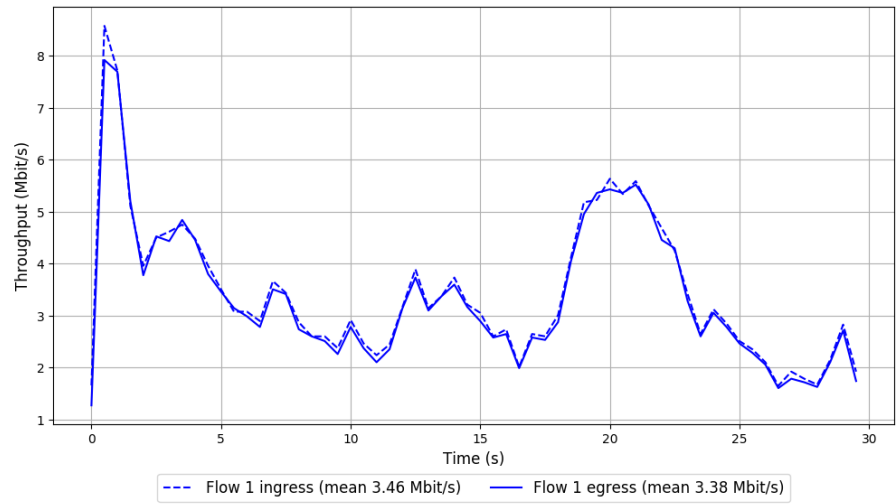


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 02:49:51  
End at: 2018-04-17 02:50:21  
Local clock offset: -0.227 ms  
Remote clock offset: -2.642 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.38 Mbit/s  
95th percentile per-packet one-way delay: 46.415 ms  
Loss rate: 2.52%  
-- Flow 1:  
Average throughput: 3.38 Mbit/s  
95th percentile per-packet one-way delay: 46.415 ms  
Loss rate: 2.52%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 03:18:26

End at: 2018-04-17 03:18:56

Local clock offset: -0.106 ms

Remote clock offset: -4.36 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 45.162 ms

Loss rate: 2.23%

-- Flow 1:

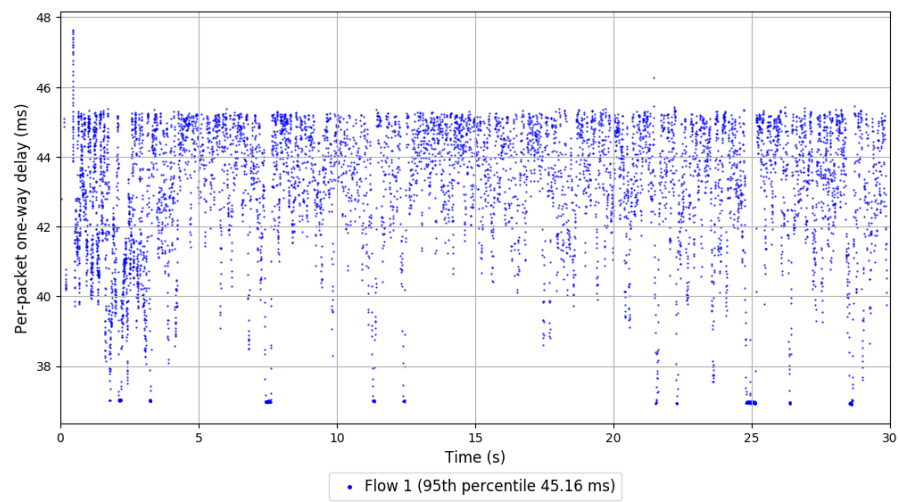
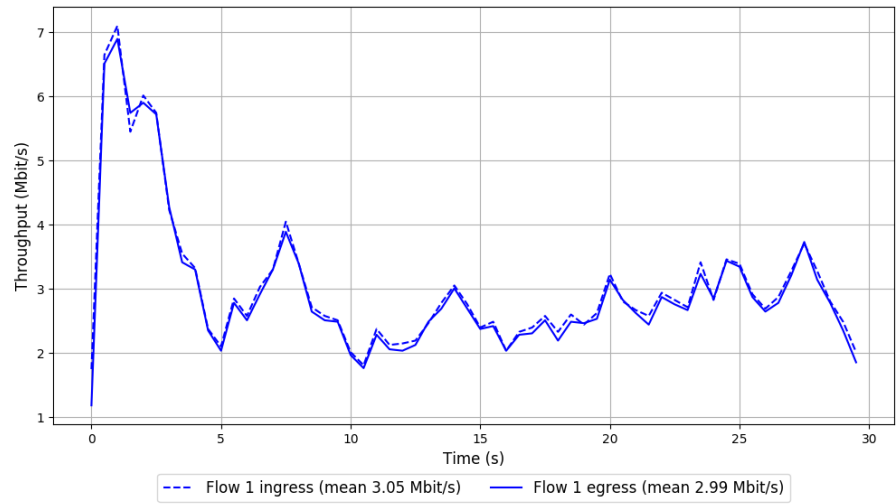
Average throughput: 2.99 Mbit/s

95th percentile per-packet one-way delay: 45.162 ms

Loss rate: 2.23%



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

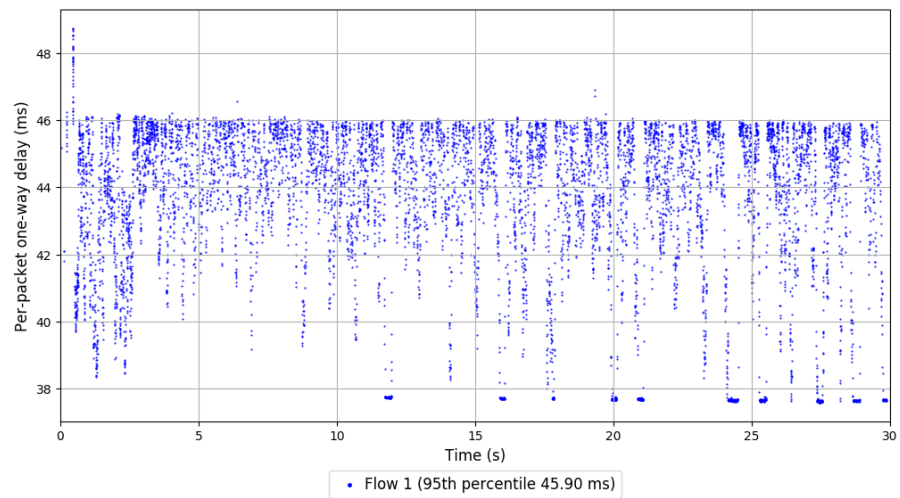
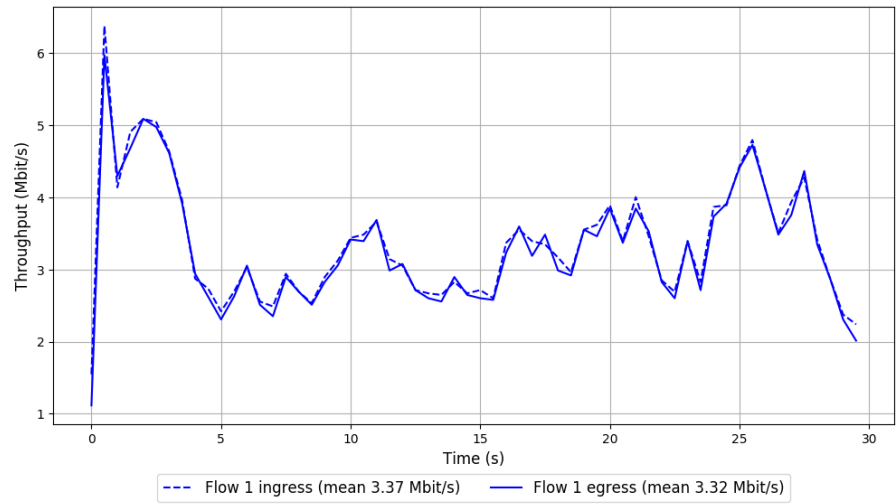


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 03:47:37  
End at: 2018-04-17 03:48:07  
Local clock offset: 2.036 ms  
Remote clock offset: -6.795 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.32 Mbit/s  
95th percentile per-packet one-way delay: 45.904 ms  
Loss rate: 1.84%  
-- Flow 1:  
Average throughput: 3.32 Mbit/s  
95th percentile per-packet one-way delay: 45.904 ms  
Loss rate: 1.84%

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



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 04:15:33

End at: 2018-04-17 04:16:03

Local clock offset: 5.435 ms

Remote clock offset: -1.363 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 44.817 ms

Loss rate: 1.60%

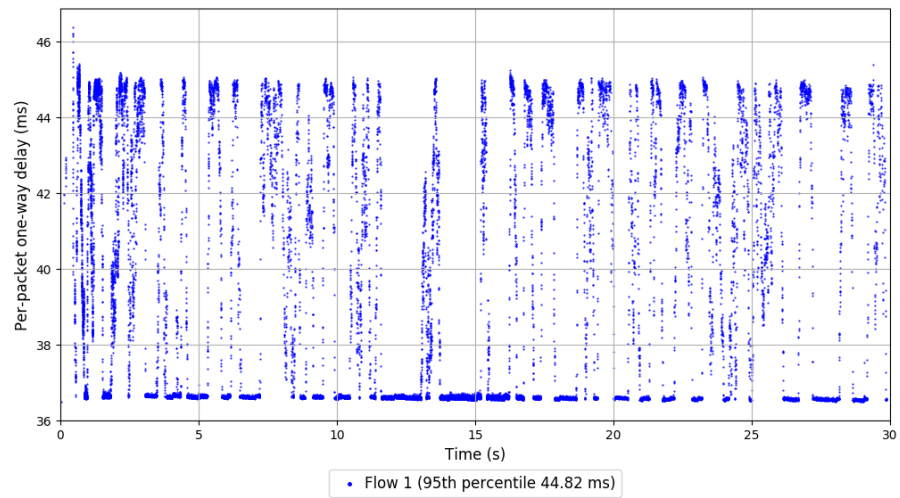
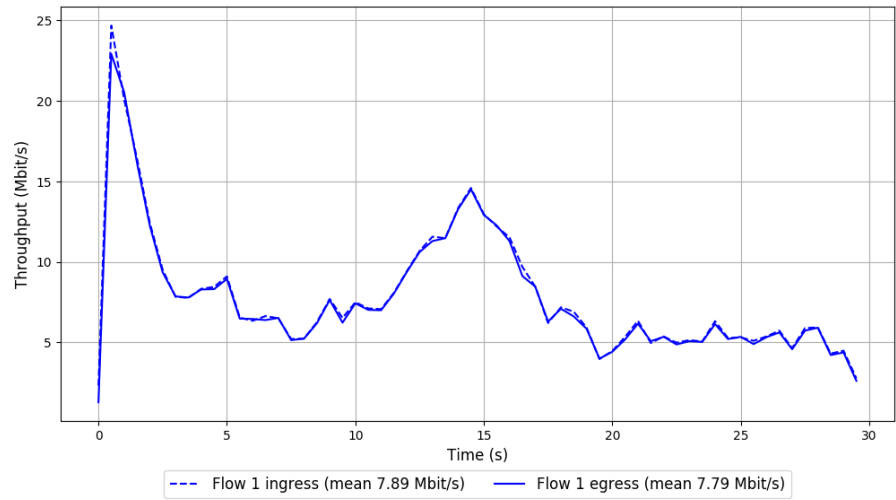
-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 44.817 ms

Loss rate: 1.60%

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



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 04:40:23

End at: 2018-04-17 04:40:53

Local clock offset: 8.834 ms

Remote clock offset: -6.908 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 56.378 ms

Loss rate: 2.25%

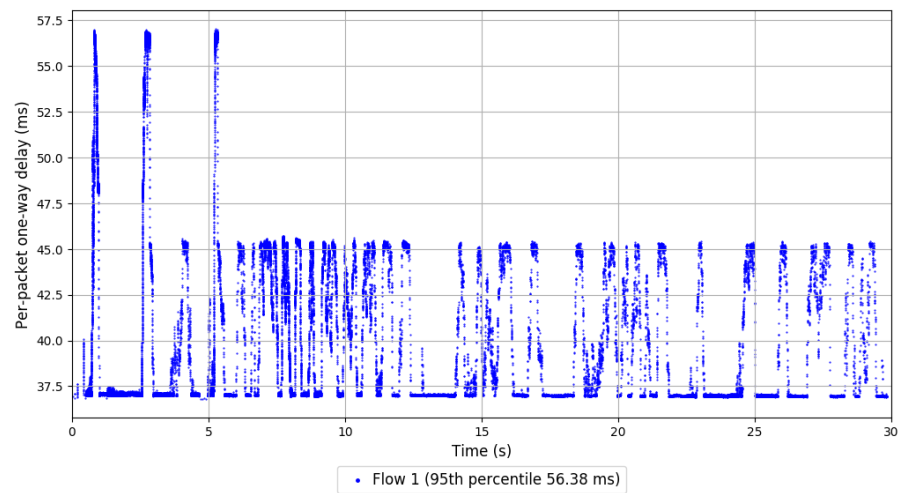
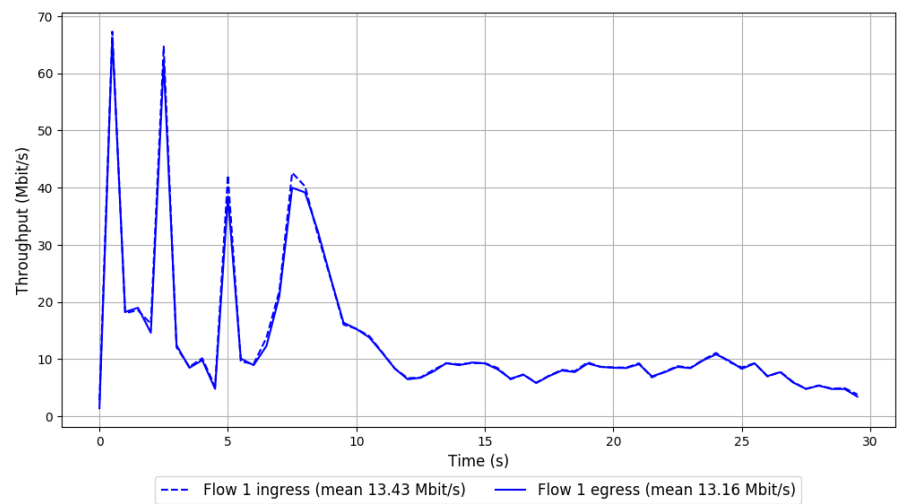
-- Flow 1:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 56.378 ms

Loss rate: 2.25%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 05:05:15

End at: 2018-04-17 05:05:45

Local clock offset: 11.003 ms

Remote clock offset: -3.025 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 46.424 ms

Loss rate: 1.50%

-- Flow 1:

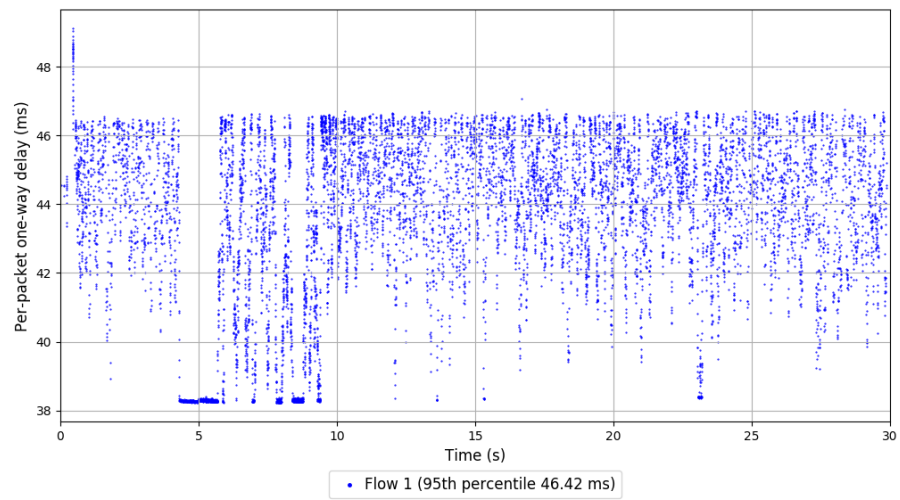
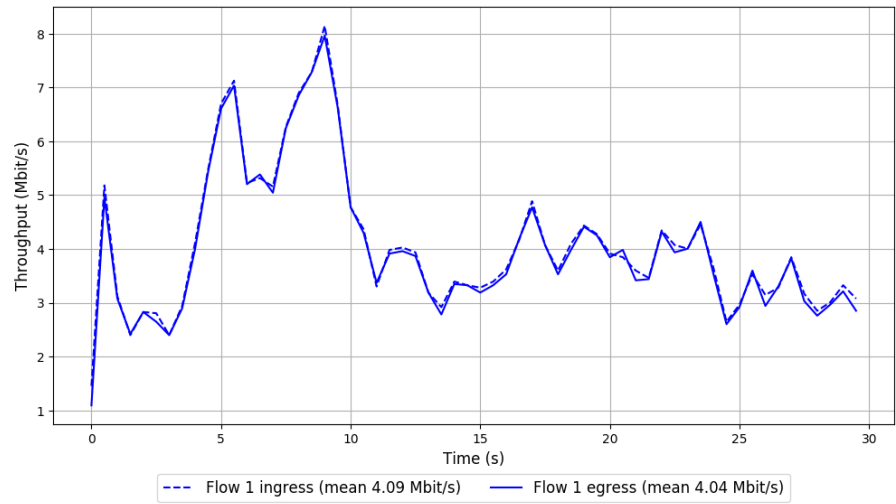
Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 46.424 ms

Loss rate: 1.50%



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



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 05:30:46

End at: 2018-04-17 05:31:16

Local clock offset: 4.654 ms

Remote clock offset: 0.64 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 46.340 ms

Loss rate: 0.71%

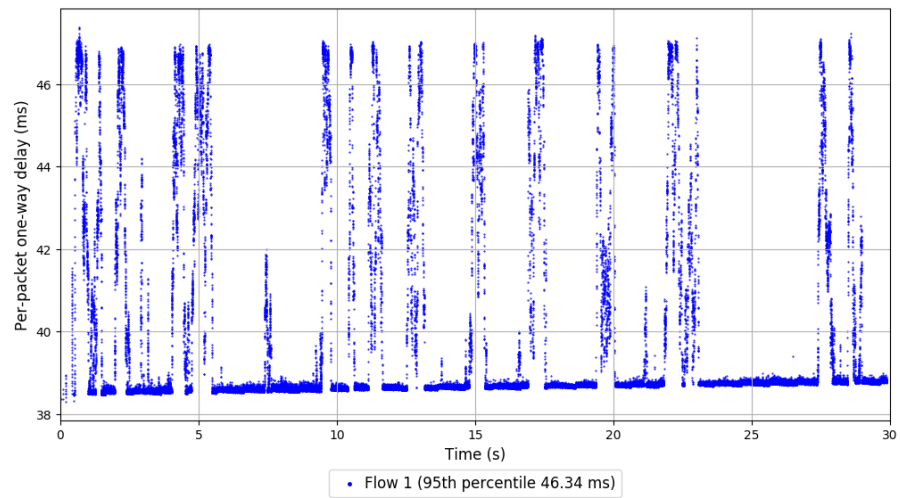
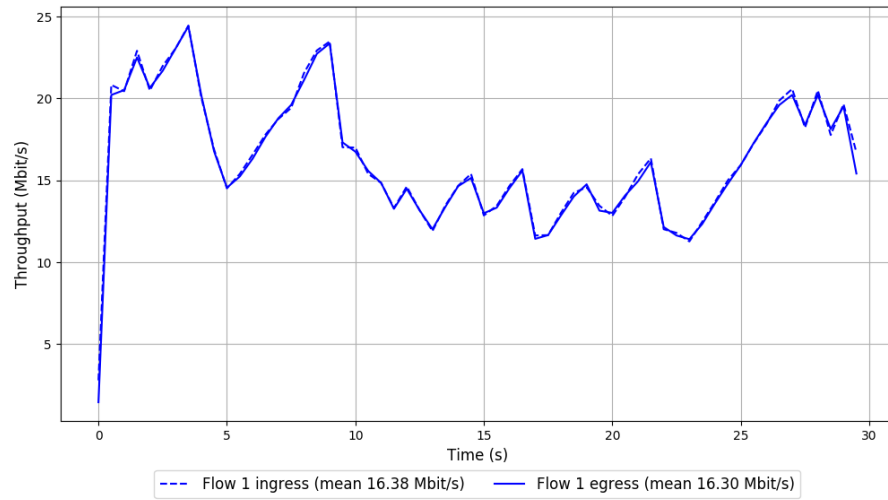
-- Flow 1:

Average throughput: 16.30 Mbit/s

95th percentile per-packet one-way delay: 46.340 ms

Loss rate: 0.71%

# Run 10: Report of QUIC Cubic — Data Link

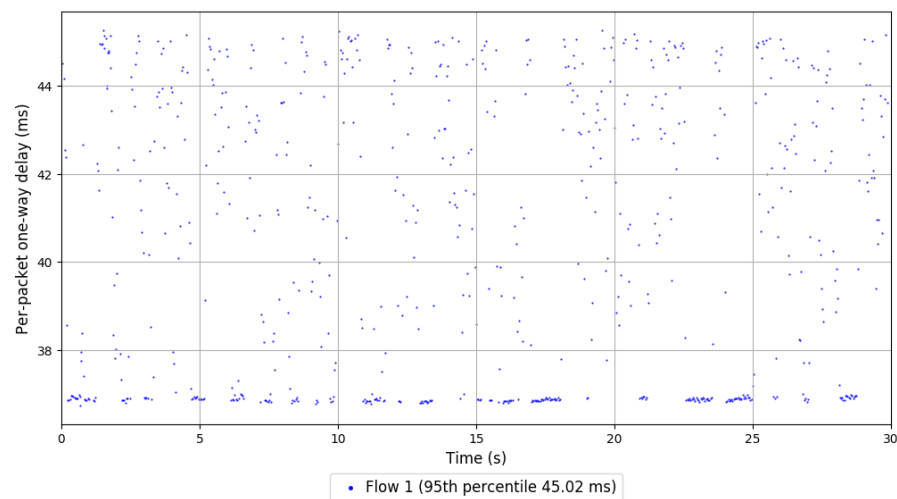
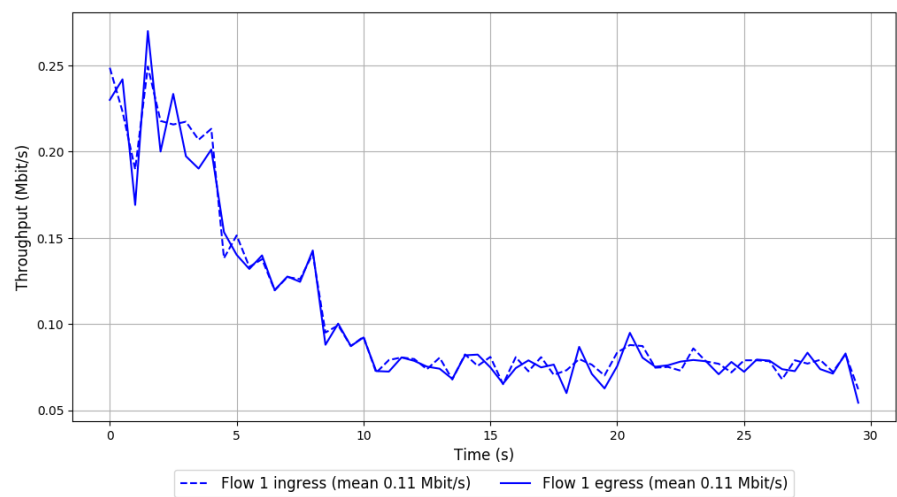


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 01:48:06
End at: 2018-04-17 01:48:36
Local clock offset: 0.337 ms
Remote clock offset: 4.543 ms

# Below is generated by plot.py at 2018-04-17 09:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 45.022 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 45.022 ms
Loss rate: 1.57%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-17 02:14:23

End at: 2018-04-17 02:14:53

Local clock offset: -0.244 ms

Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 46.436 ms

Loss rate: 2.37%

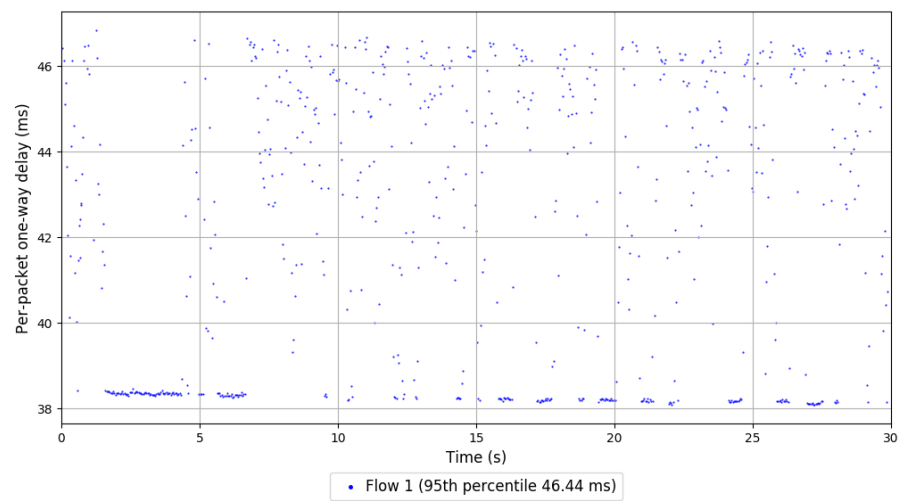
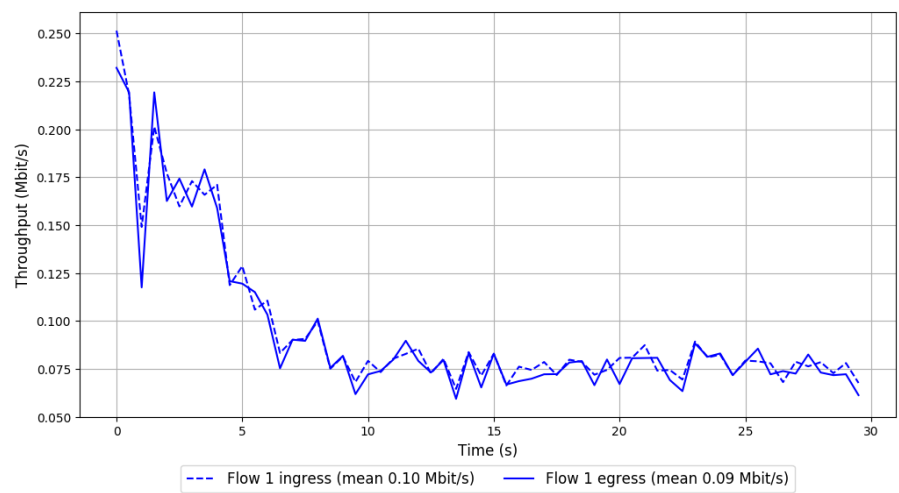
-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 46.436 ms

Loss rate: 2.37%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-17 02:43:21

End at: 2018-04-17 02:43:51

Local clock offset: -0.379 ms

Remote clock offset: -3.12 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 46.543 ms

Loss rate: 1.77%

-- Flow 1:

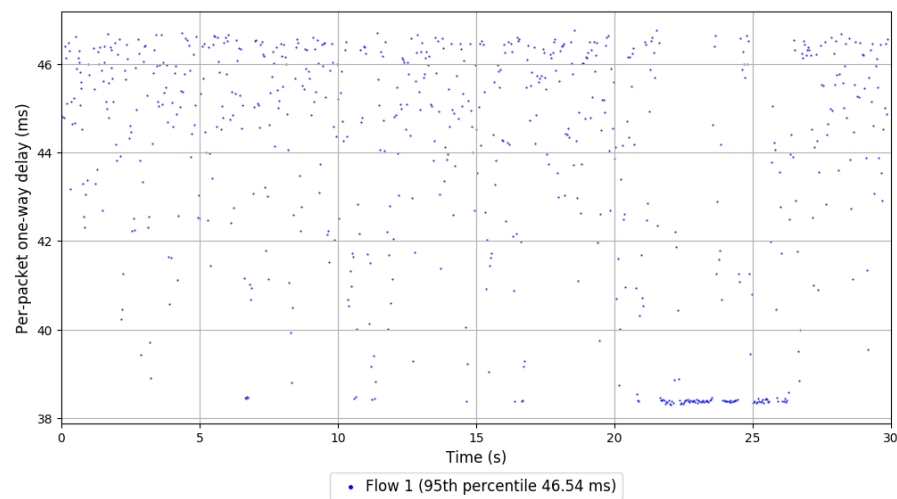
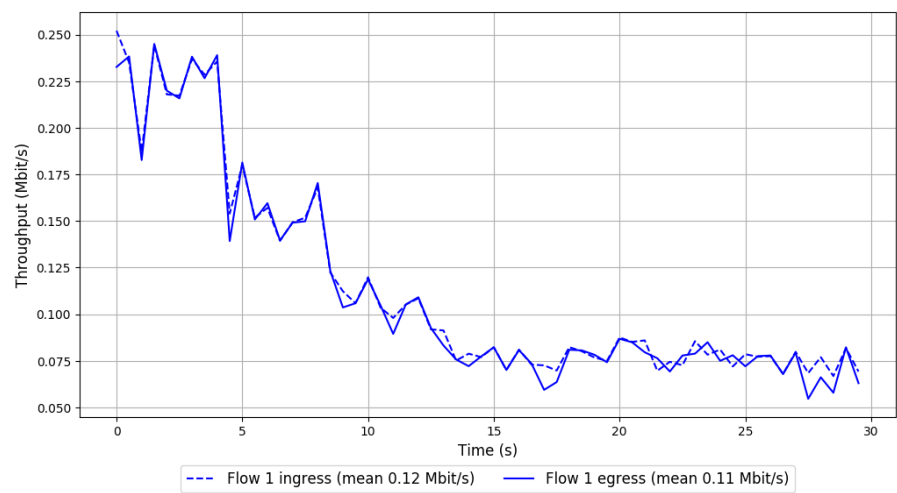
Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 46.543 ms

Loss rate: 1.77%



Run 3: Report of SReAM — Data Link

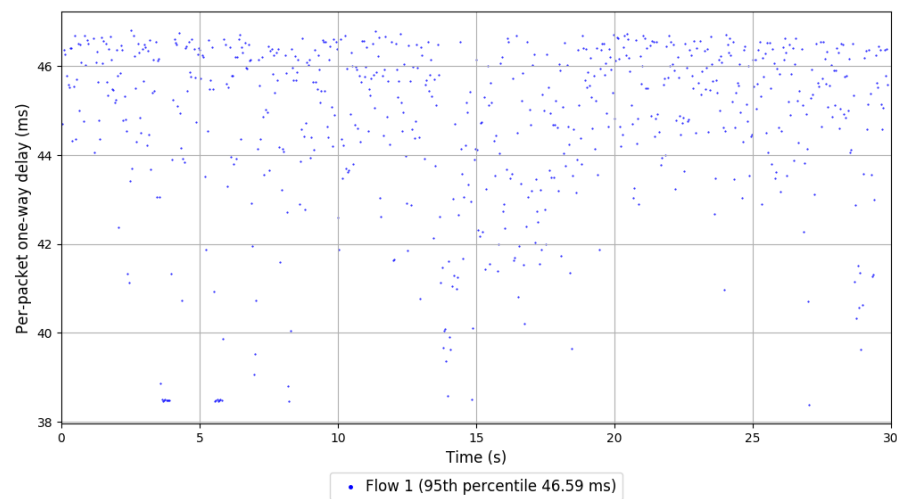
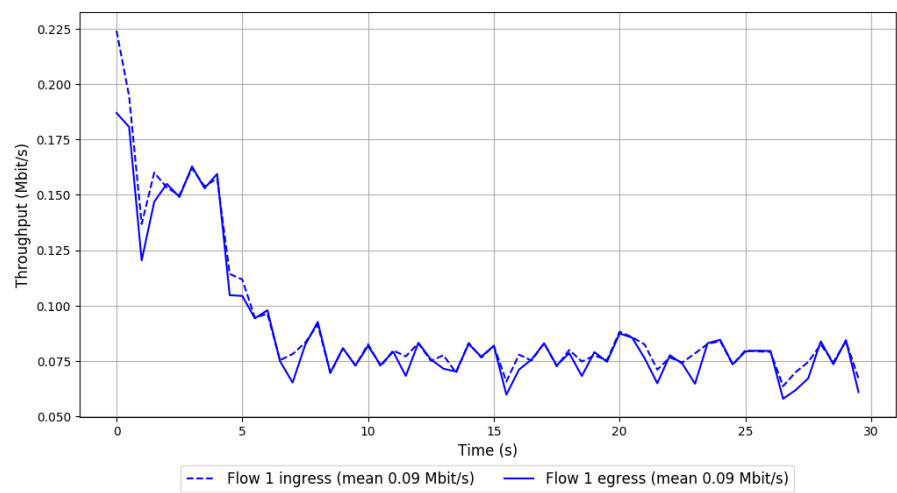


Run 4: Statistics of SCReAM

Start at: 2018-04-17 03:11:57  
End at: 2018-04-17 03:12:27  
Local clock offset: -0.231 ms  
Remote clock offset: -3.344 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.09 Mbit/s  
95th percentile per-packet one-way delay: 46.586 ms  
Loss rate: 3.45%  
-- Flow 1:  
Average throughput: 0.09 Mbit/s  
95th percentile per-packet one-way delay: 46.586 ms  
Loss rate: 3.45%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-17 03:41:11

End at: 2018-04-17 03:41:41

Local clock offset: 0.043 ms

Remote clock offset: -6.8 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 45.219 ms

Loss rate: 3.09%

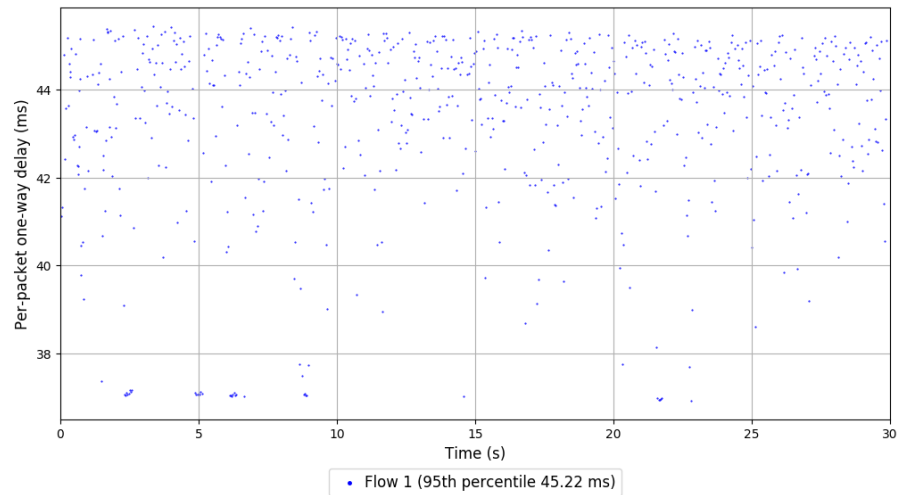
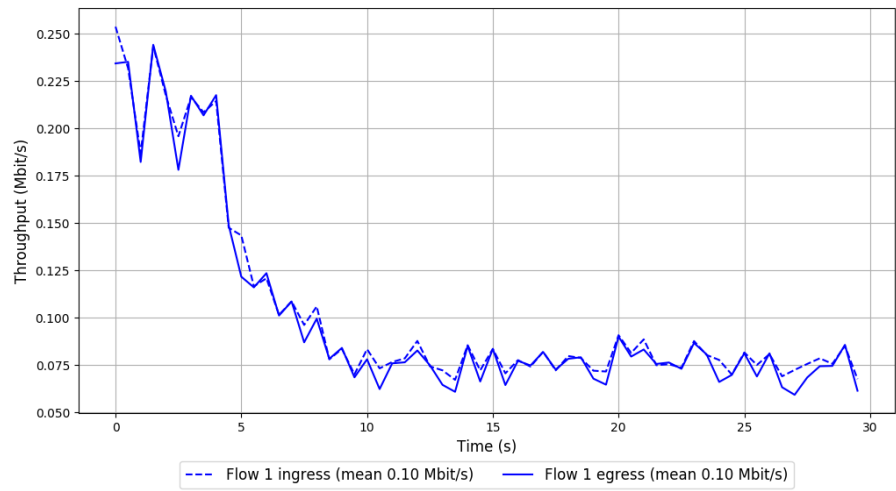
-- Flow 1:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 45.219 ms

Loss rate: 3.09%

## Run 5: Report of SReAM — Data Link

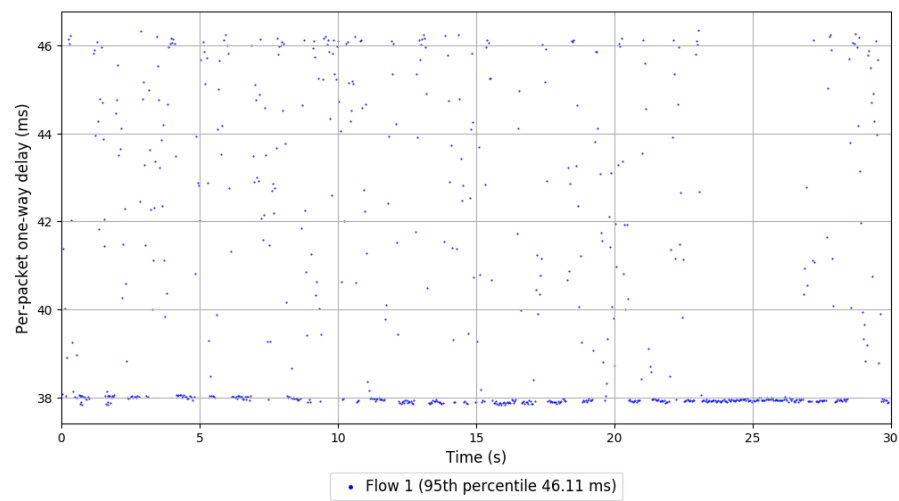
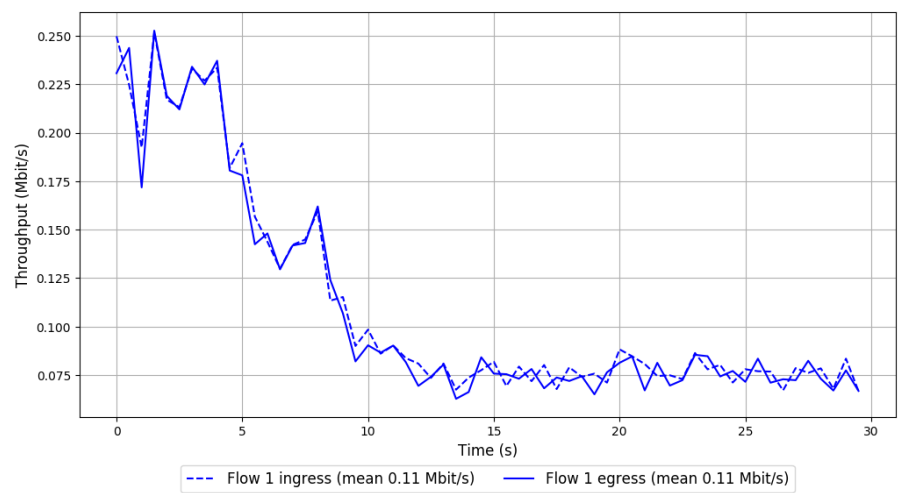


Run 6: Statistics of SCReAM

Start at: 2018-04-17 04:08:54  
End at: 2018-04-17 04:09:24  
Local clock offset: 4.894 ms  
Remote clock offset: -1.815 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 46.110 ms  
Loss rate: 1.79%  
-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 46.110 ms  
Loss rate: 1.79%

Run 6: Report of SReAM — Data Link



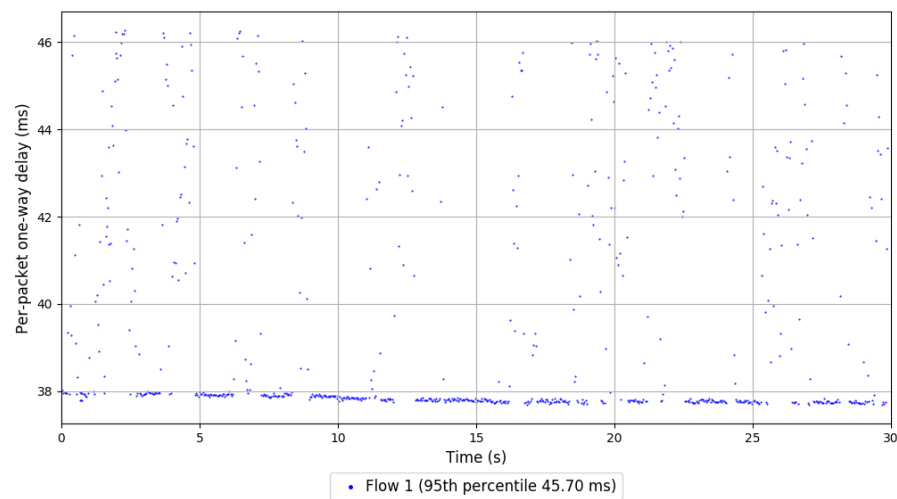
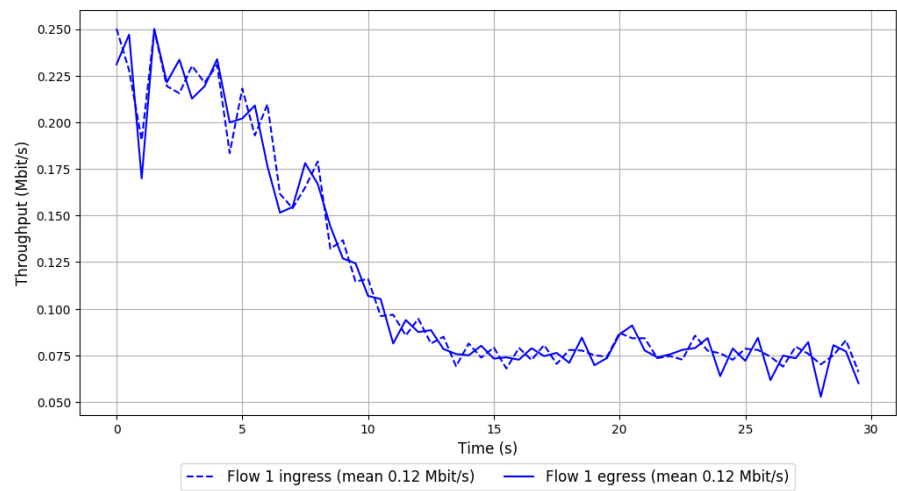
Run 7: Statistics of SCReAM

Start at: 2018-04-17 04:34:15  
End at: 2018-04-17 04:34:45  
Local clock offset: 8.331 ms  
Remote clock offset: -5.536 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 45.702 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 45.702 ms  
Loss rate: 1.04%



Run 7: Report of SReAM — Data Link

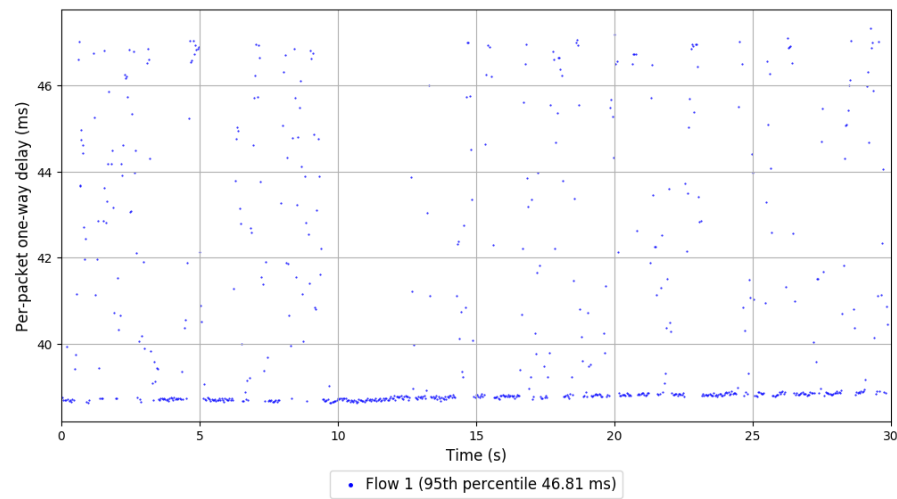
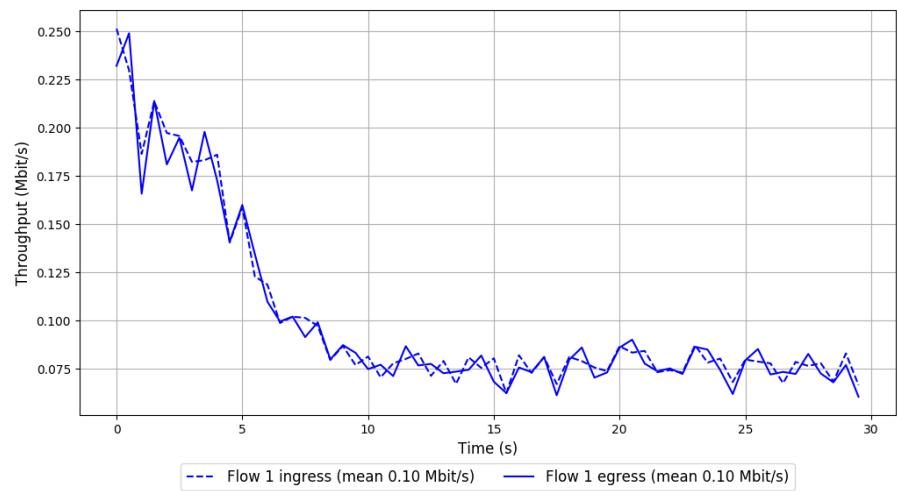


Run 8: Statistics of SCReAM

Start at: 2018-04-17 04:58:42  
End at: 2018-04-17 04:59:12  
Local clock offset: 10.422 ms  
Remote clock offset: -6.704 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 46.807 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 46.807 ms  
Loss rate: 1.46%

Run 8: Report of SReAM — Data Link

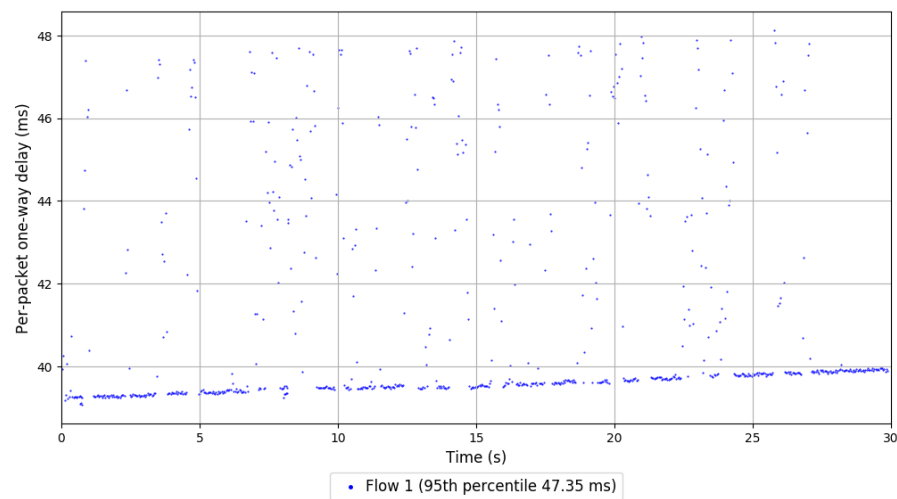
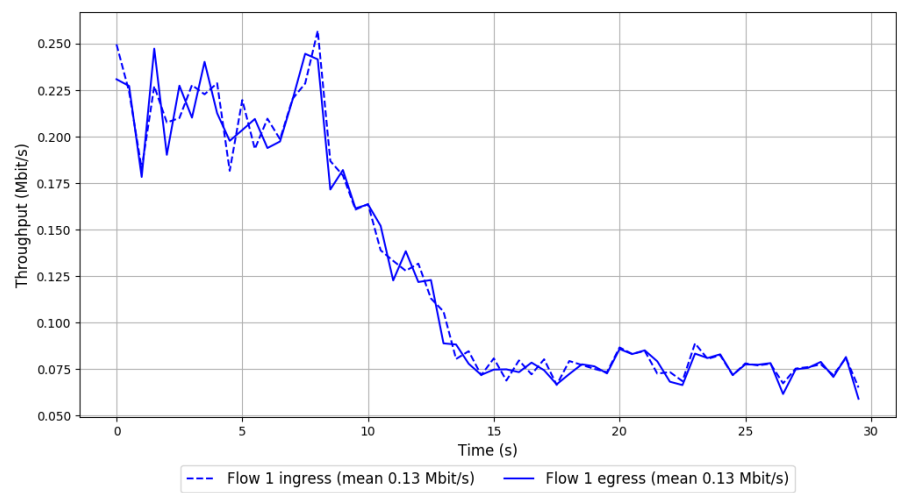


Run 9: Statistics of SReAM

Start at: 2018-04-17 05:24:54  
End at: 2018-04-17 05:25:24  
Local clock offset: 11.507 ms  
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 47.352 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 47.352 ms  
Loss rate: 0.79%

Run 9: Report of SCRaM — Data Link

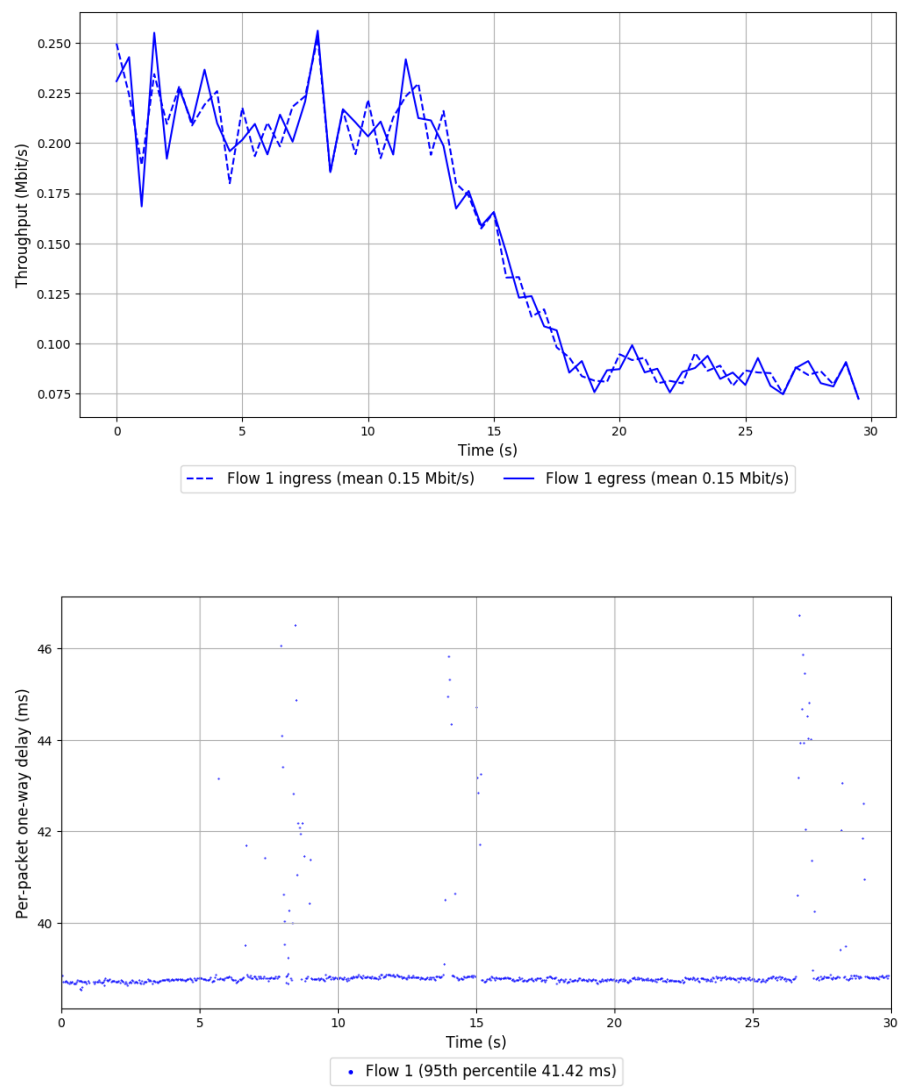


Run 10: Statistics of SReAM

Start at: 2018-04-17 05:48:08  
End at: 2018-04-17 05:48:38  
Local clock offset: -3.431 ms  
Remote clock offset: -1.962 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 41.416 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 41.416 ms  
Loss rate: 0.22%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-17 01:32:13

End at: 2018-04-17 01:32:43

Local clock offset: 3.16 ms

Remote clock offset: 1.652 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 46.457 ms

Loss rate: 3.24%

-- Flow 1:

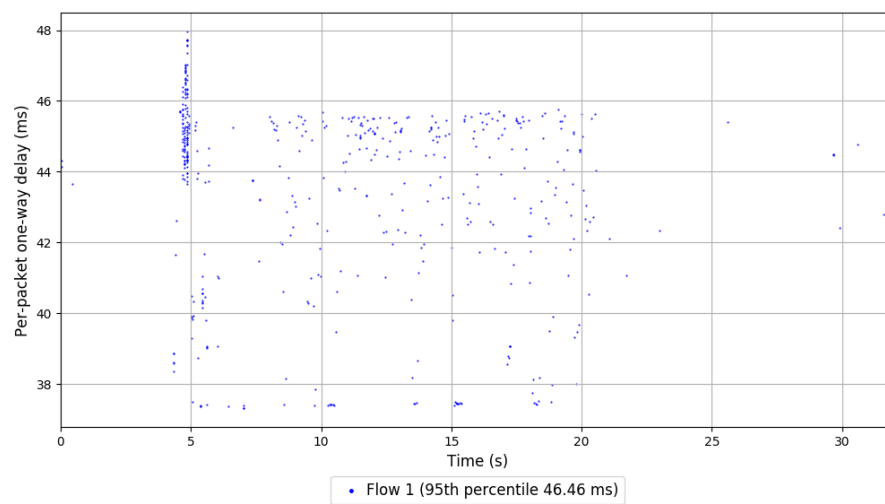
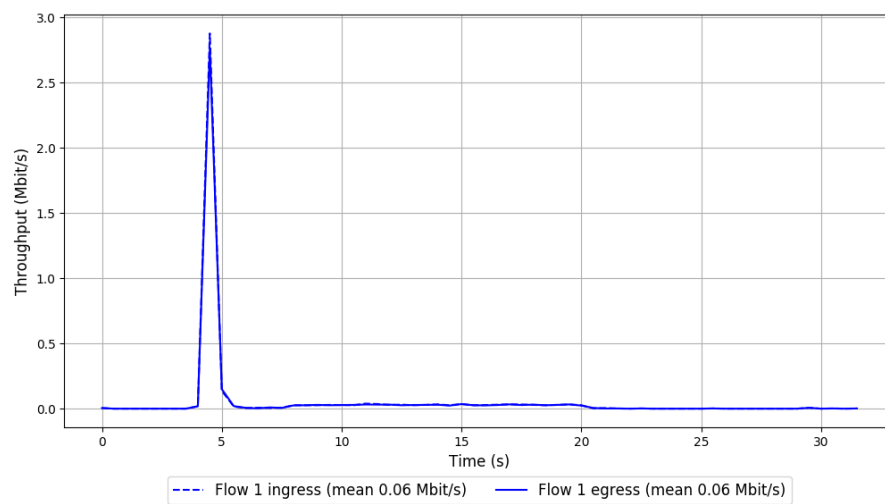
Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 46.457 ms

Loss rate: 3.24%



# Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 01:59:01

End at: 2018-04-17 01:59:31

Local clock offset: -0.371 ms

Remote clock offset: 5.814 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 45.761 ms

Loss rate: 0.56%

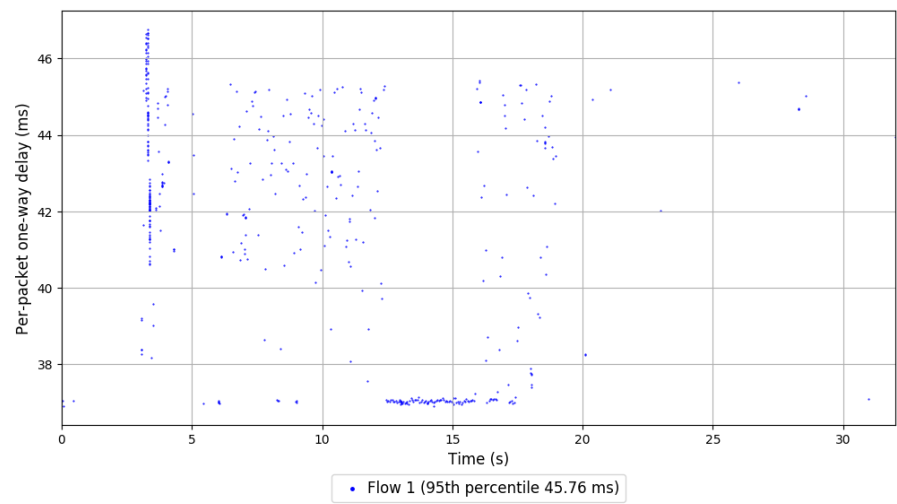
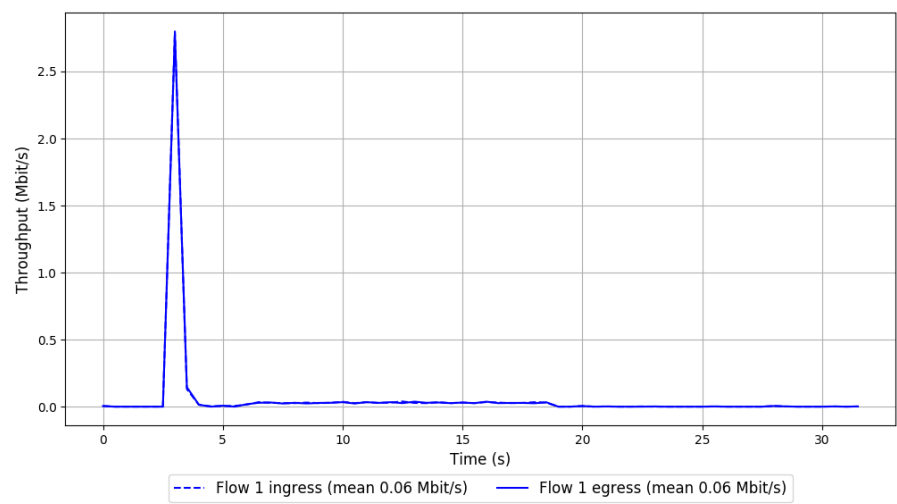
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 45.761 ms

Loss rate: 0.56%

Run 2: Report of WebRTC media — Data Link

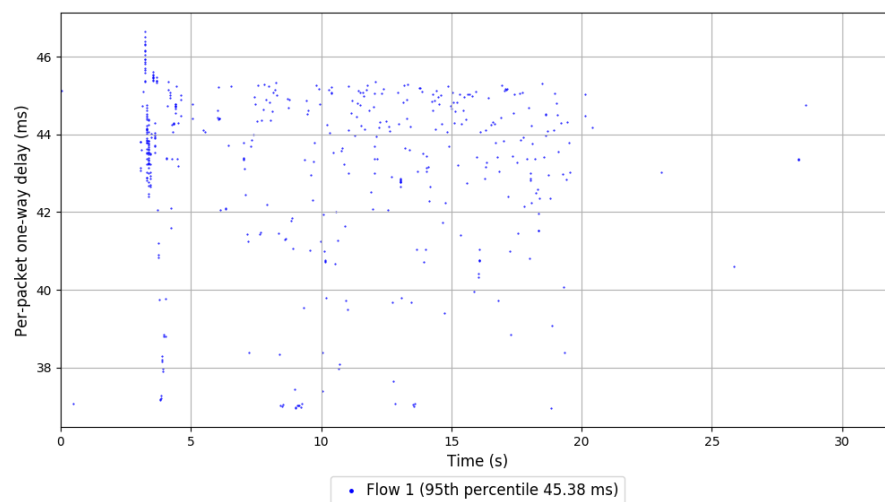
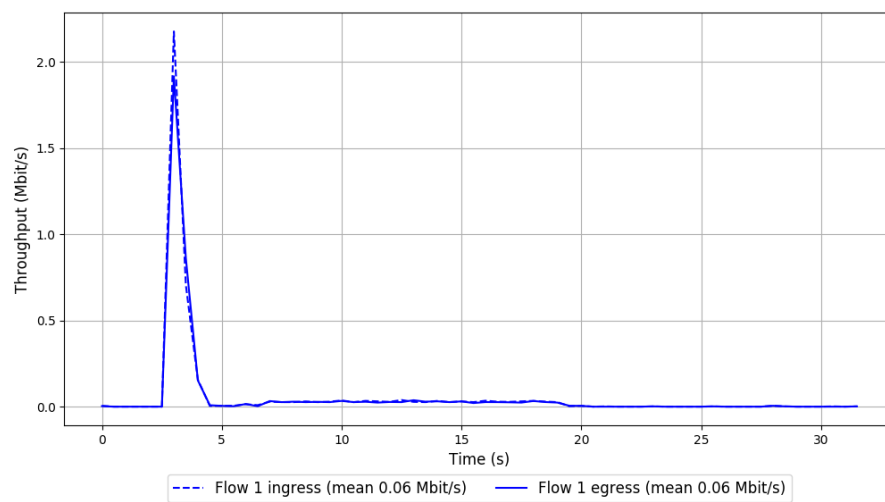


Run 3: Statistics of WebRTC media

Start at: 2018-04-17 02:25:04  
End at: 2018-04-17 02:25:34  
Local clock offset: -0.328 ms  
Remote clock offset: -2.127 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 45.384 ms  
Loss rate: 4.27%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 45.384 ms  
Loss rate: 4.27%

### Run 3: Report of WebRTC media — Data Link

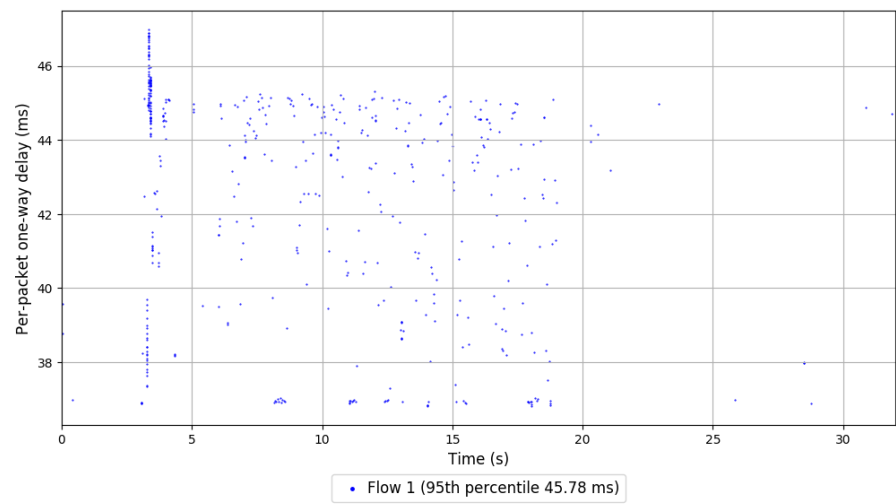
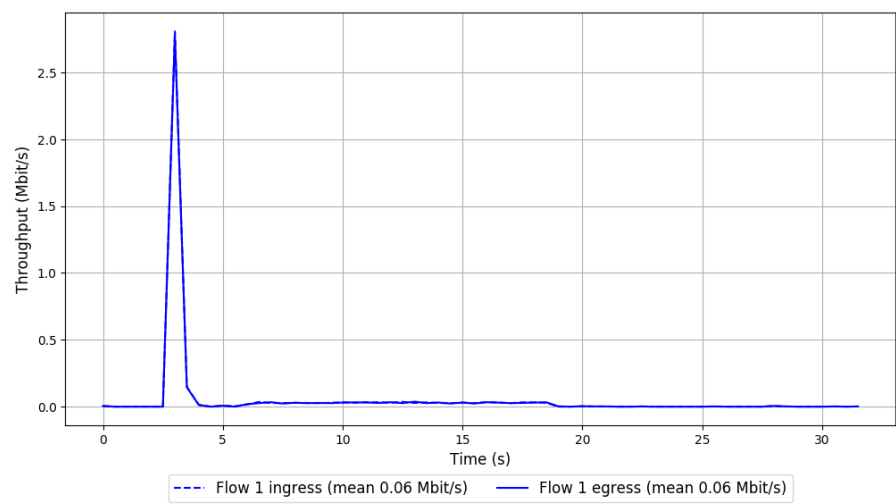


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 02:54:29  
End at: 2018-04-17 02:54:59  
Local clock offset: -0.367 ms  
Remote clock offset: -3.071 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 45.782 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 45.782 ms  
Loss rate: 1.25%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-17 03:23:06

End at: 2018-04-17 03:23:36

Local clock offset: -0.088 ms

Remote clock offset: -4.74 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 44.780 ms

Loss rate: 2.18%

-- Flow 1:

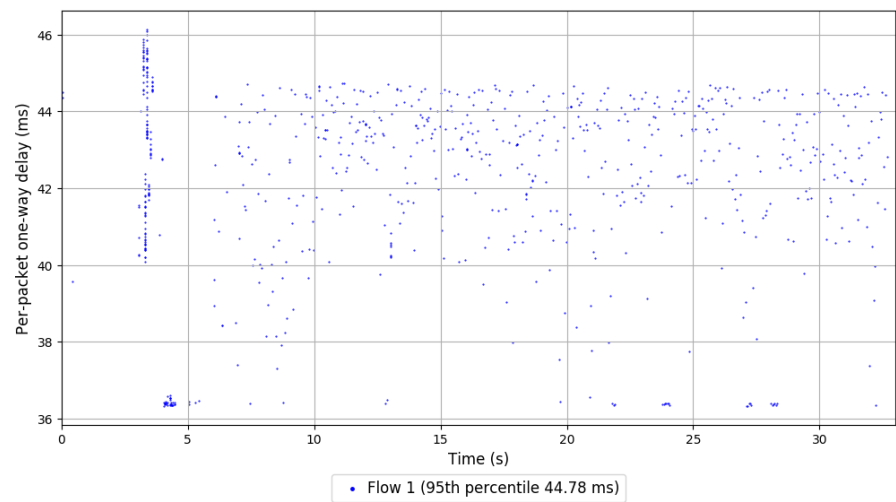
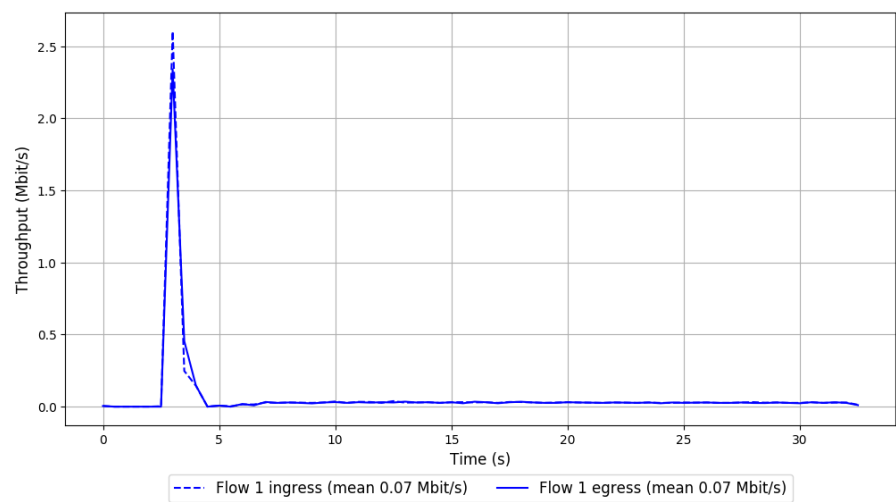
Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 44.780 ms

Loss rate: 2.18%



Run 5: Report of WebRTC media — Data Link

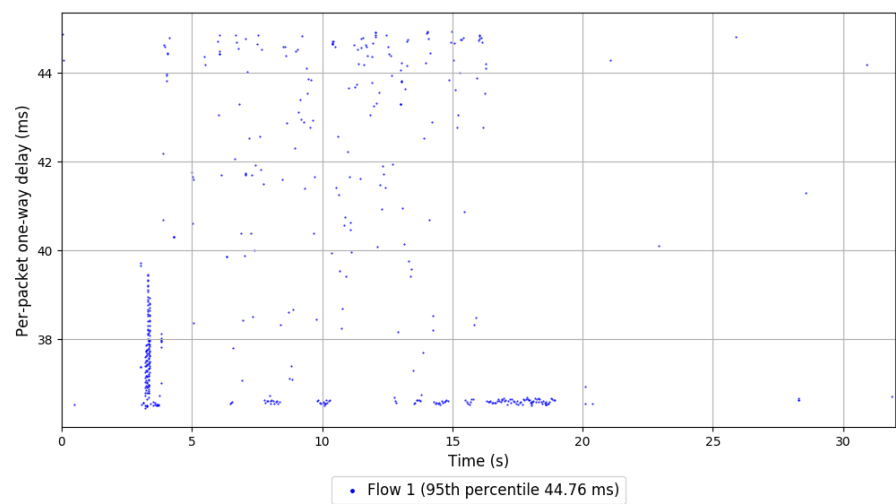
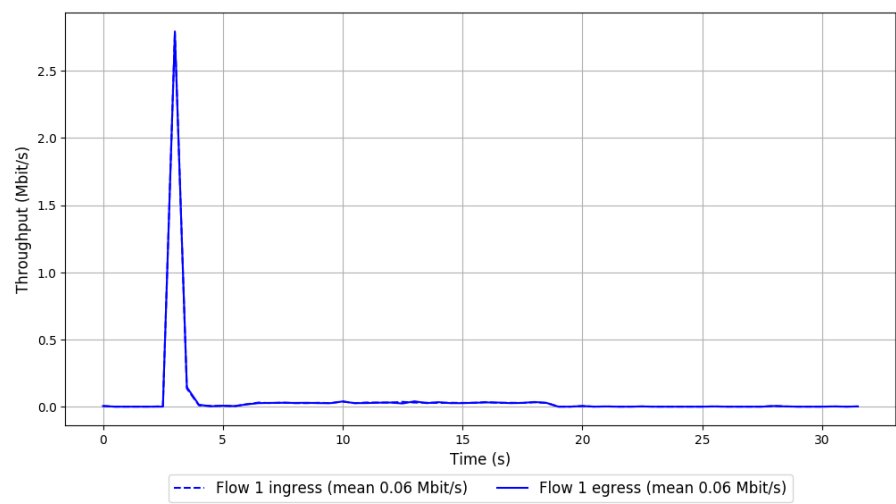


Run 6: Statistics of WebRTC media

Start at: 2018-04-17 03:52:03  
End at: 2018-04-17 03:52:33  
Local clock offset: 3.11 ms  
Remote clock offset: -5.032 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 44.763 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 44.763 ms  
Loss rate: 0.40%

Run 6: Report of WebRTC media — Data Link

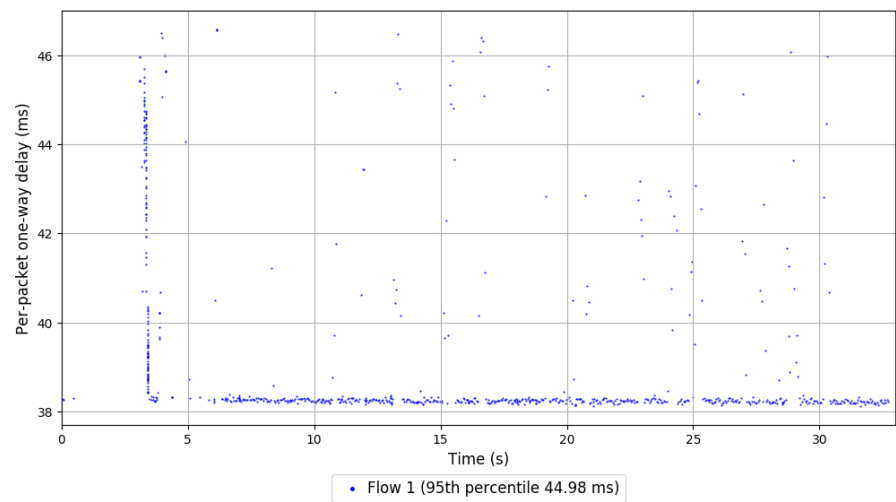
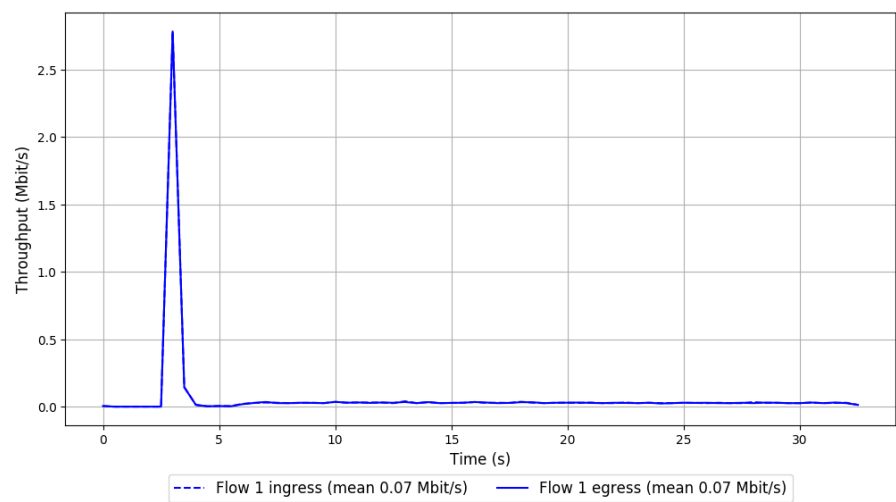


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 04:19:45  
End at: 2018-04-17 04:20:15  
Local clock offset: 6.237 ms  
Remote clock offset: -1.637 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 44.985 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 44.985 ms  
Loss rate: 0.34%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-17 04:44:32

End at: 2018-04-17 04:45:02

Local clock offset: 9.255 ms

Remote clock offset: -7.48 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 41.643 ms

Loss rate: 0.00%

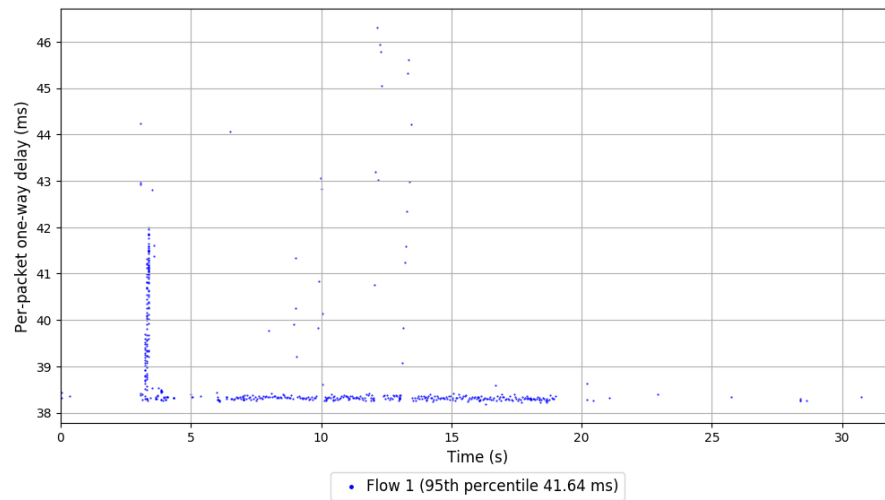
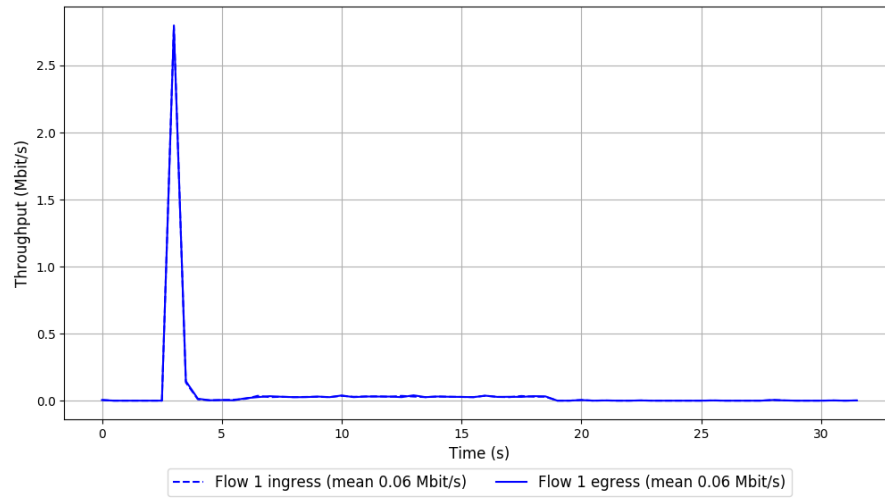
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 41.643 ms

Loss rate: 0.00%

## Run 8: Report of WebRTC media — Data Link



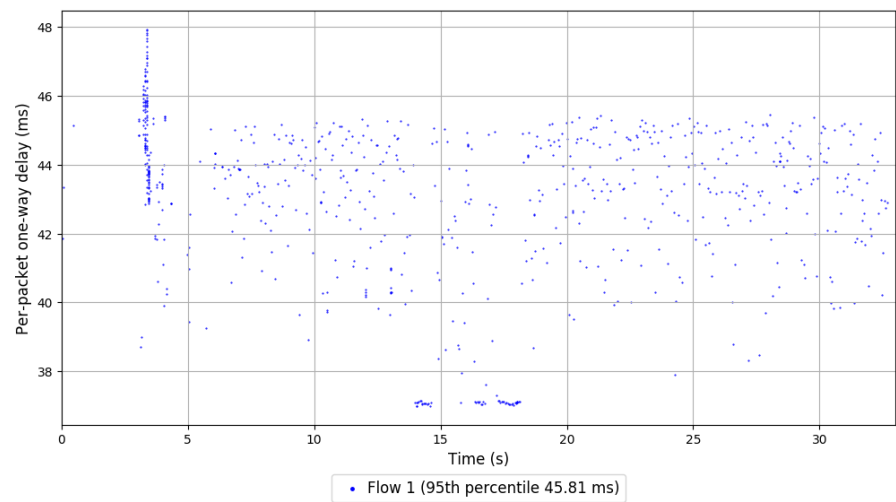
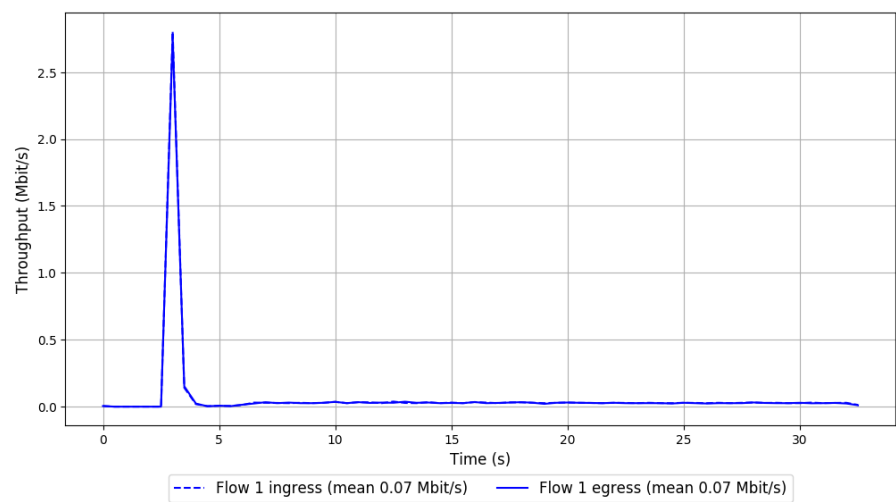
Run 9: Statistics of WebRTC media

Start at: 2018-04-17 05:10:25  
End at: 2018-04-17 05:10:55  
Local clock offset: 11.404 ms  
Remote clock offset: -2.047 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 45.814 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 45.814 ms  
Loss rate: 1.51%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 05:34:43

End at: 2018-04-17 05:35:13

Local clock offset: 1.735 ms

Remote clock offset: -0.678 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 39.992 ms

Loss rate: 0.18%

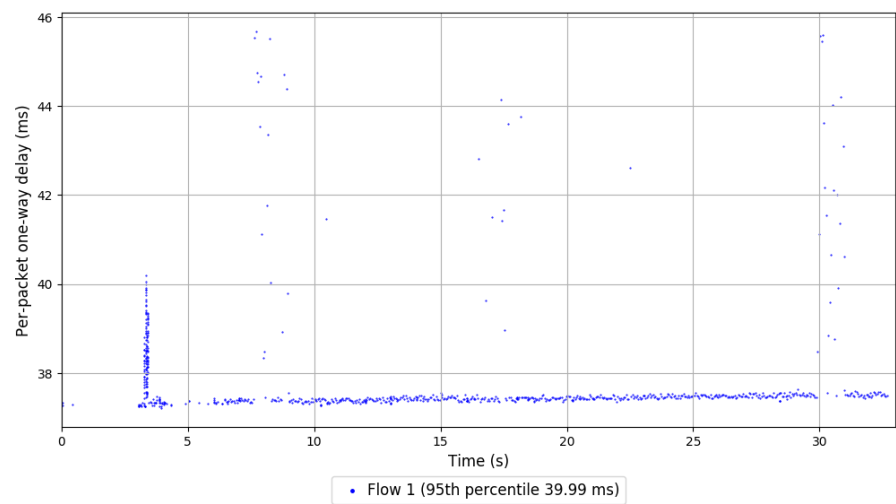
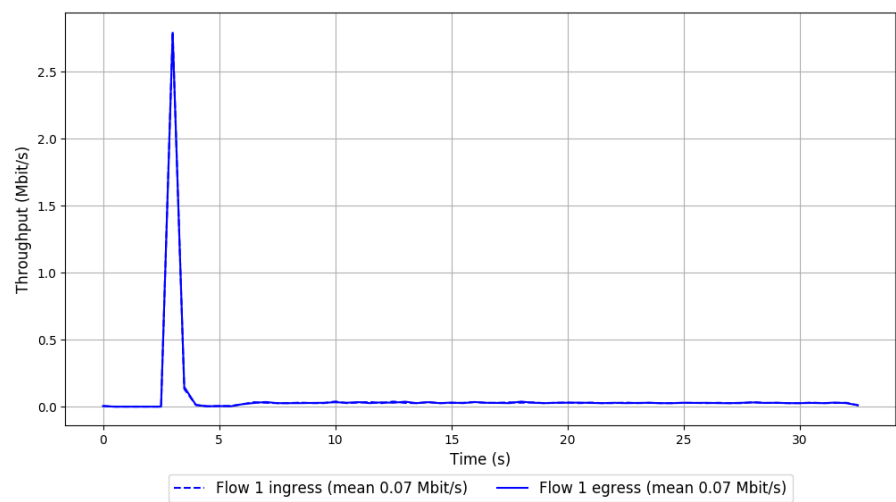
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 39.992 ms

Loss rate: 0.18%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-17 01:46:44

End at: 2018-04-17 01:47:14

Local clock offset: 0.435 ms

Remote clock offset: 4.363 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 49.186 ms

Loss rate: 2.45%

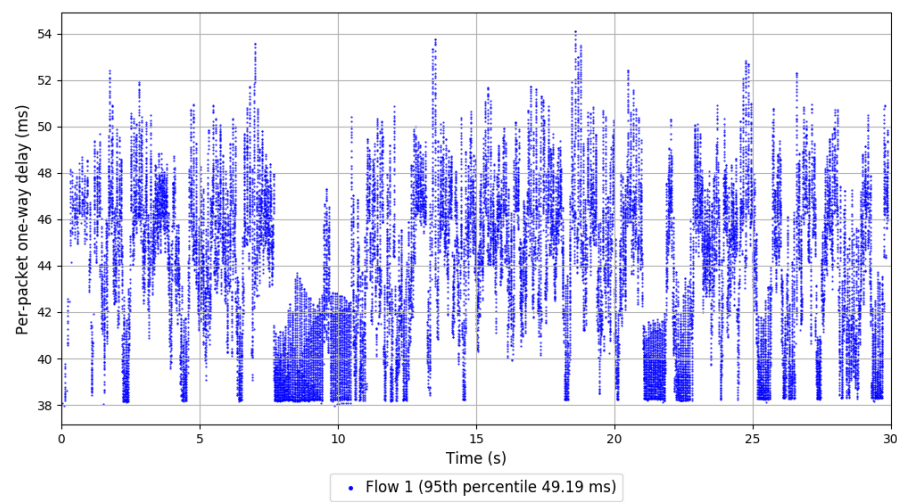
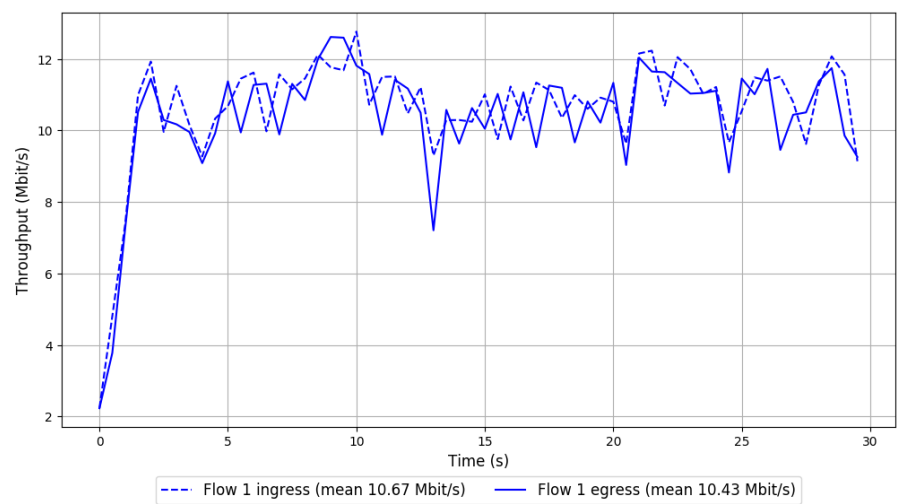
-- Flow 1:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 49.186 ms

Loss rate: 2.45%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-17 02:13:00

End at: 2018-04-17 02:13:30

Local clock offset: -0.171 ms

Remote clock offset: 1.253 ms

# Below is generated by plot.py at 2018-04-17 09:46:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.10 Mbit/s

95th percentile per-packet one-way delay: 49.771 ms

Loss rate: 3.37%

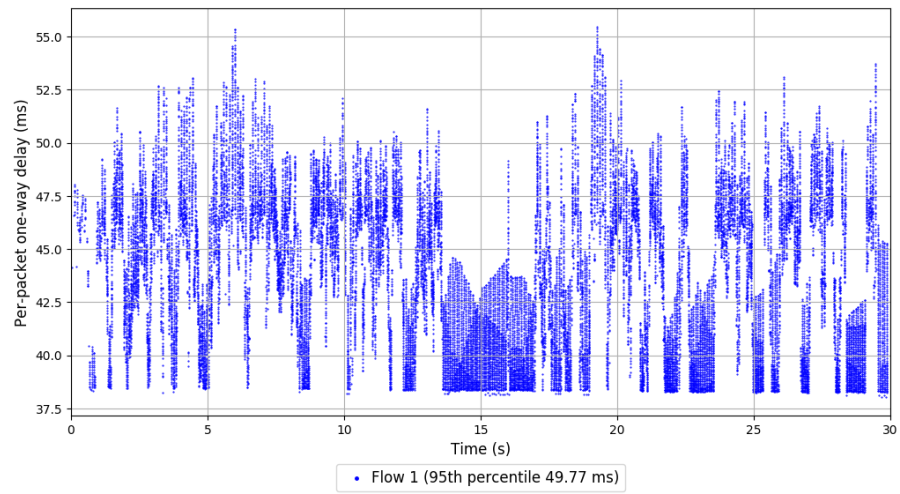
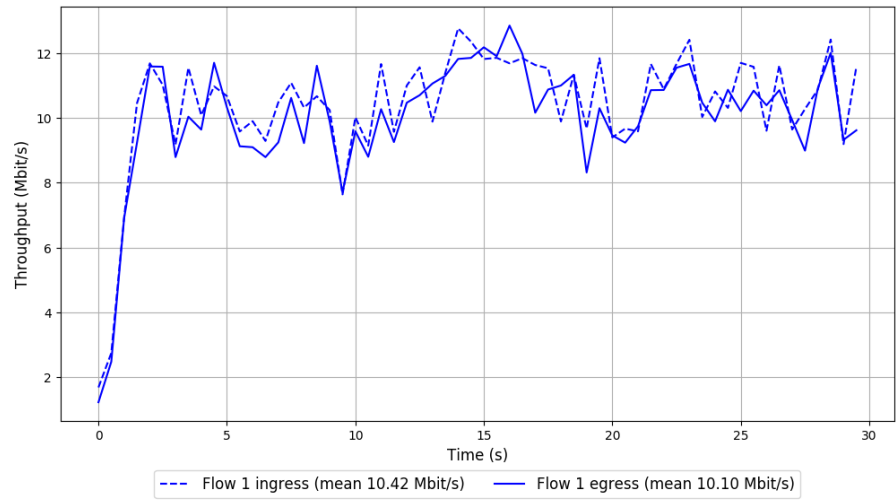
-- Flow 1:

Average throughput: 10.10 Mbit/s

95th percentile per-packet one-way delay: 49.771 ms

Loss rate: 3.37%

## Run 2: Report of Sprout — Data Link



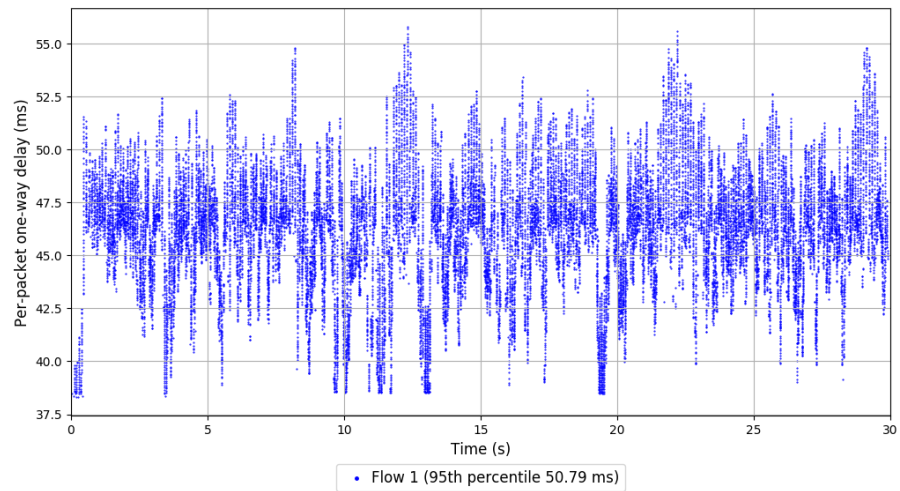
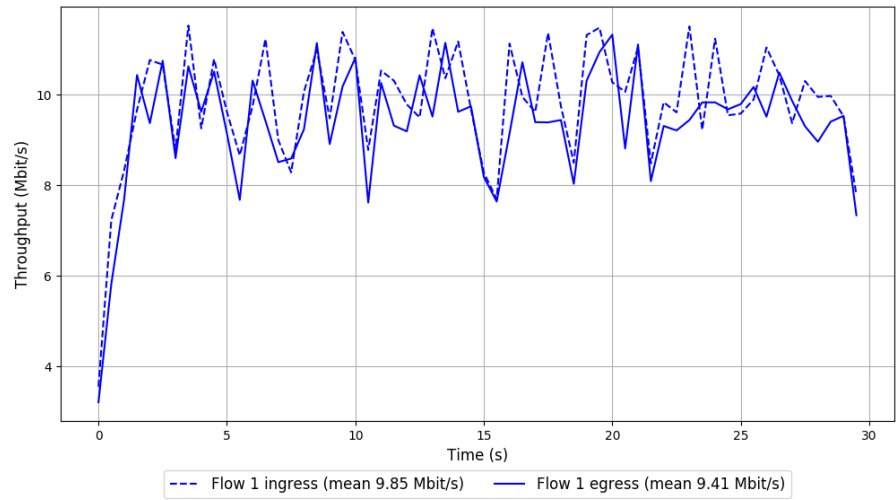
Run 3: Statistics of Sprout

Start at: 2018-04-17 02:42:02  
End at: 2018-04-17 02:42:32  
Local clock offset: -0.303 ms  
Remote clock offset: -3.096 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.41 Mbit/s  
95th percentile per-packet one-way delay: 50.787 ms  
Loss rate: 4.68%  
-- Flow 1:  
Average throughput: 9.41 Mbit/s  
95th percentile per-packet one-way delay: 50.787 ms  
Loss rate: 4.68%



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

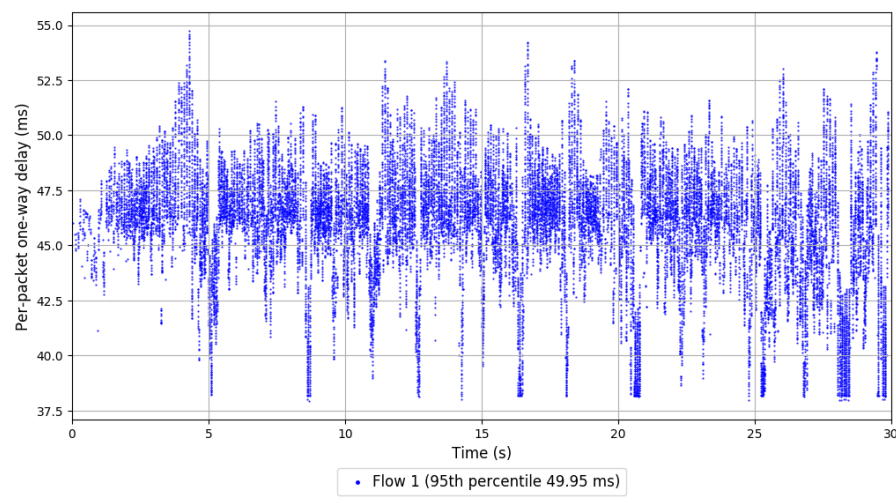
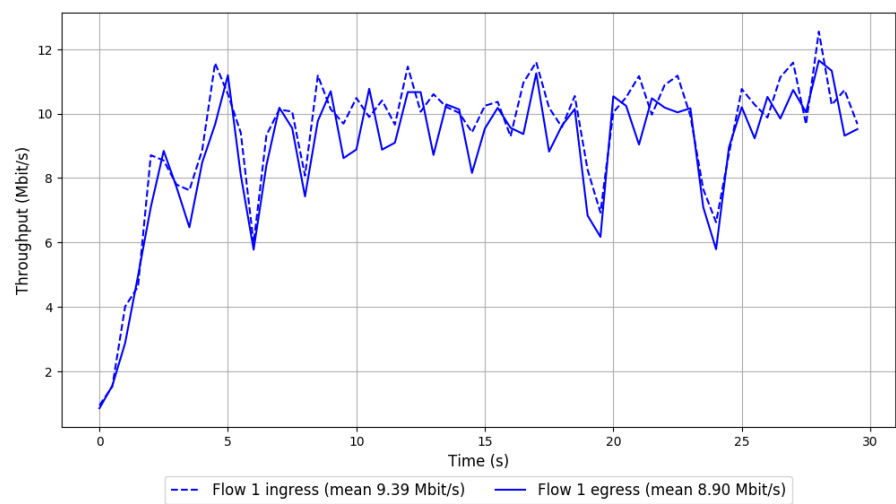


Run 4: Statistics of Sprout

Start at: 2018-04-17 03:10:36  
End at: 2018-04-17 03:11:06  
Local clock offset: -0.244 ms  
Remote clock offset: -2.871 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.90 Mbit/s  
95th percentile per-packet one-way delay: 49.948 ms  
Loss rate: 5.56%  
-- Flow 1:  
Average throughput: 8.90 Mbit/s  
95th percentile per-packet one-way delay: 49.948 ms  
Loss rate: 5.56%

Run 4: Report of Sprout — Data Link

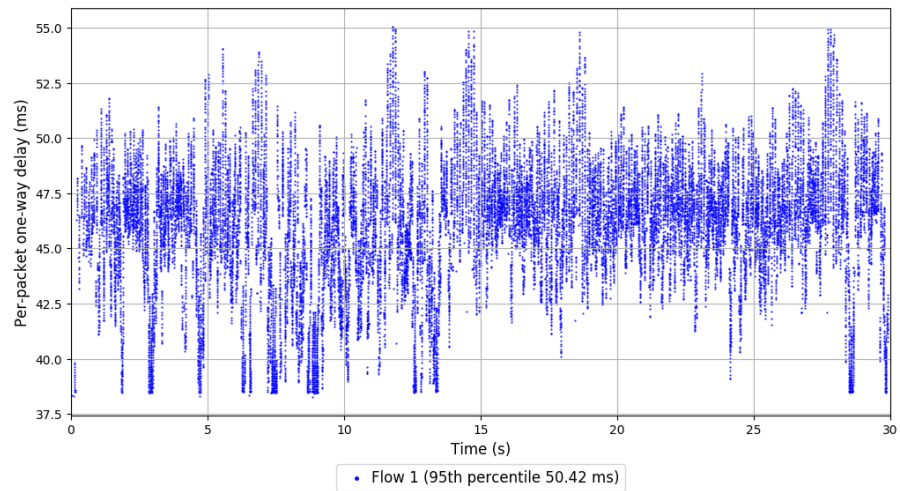
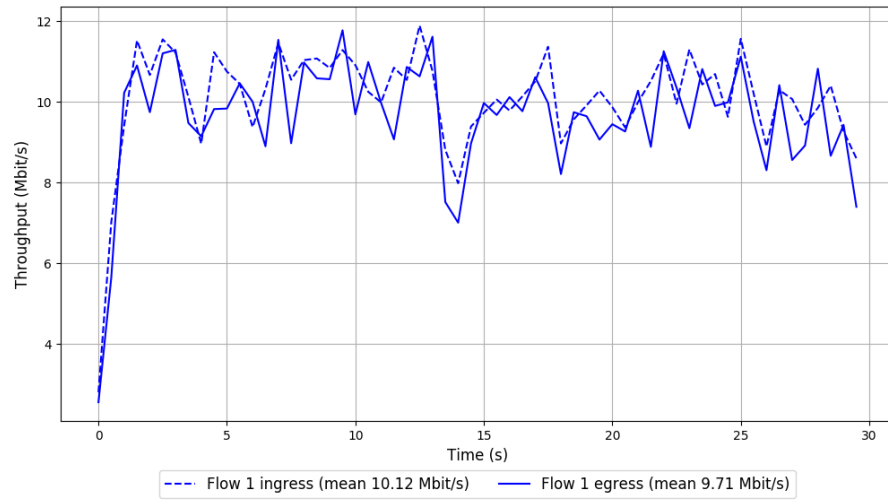


Run 5: Statistics of Sprout

Start at: 2018-04-17 03:39:49  
End at: 2018-04-17 03:40:19  
Local clock offset: -0.044 ms  
Remote clock offset: -6.692 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.71 Mbit/s  
95th percentile per-packet one-way delay: 50.422 ms  
Loss rate: 4.21%  
-- Flow 1:  
Average throughput: 9.71 Mbit/s  
95th percentile per-packet one-way delay: 50.422 ms  
Loss rate: 4.21%

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

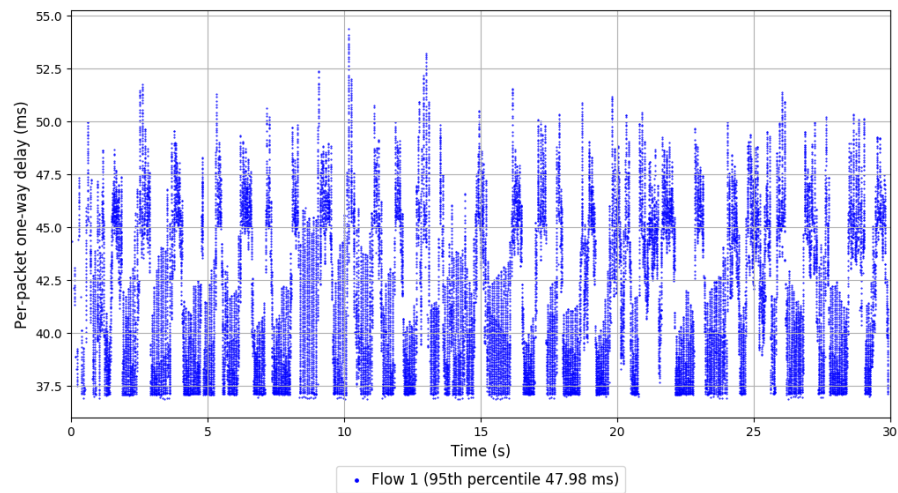
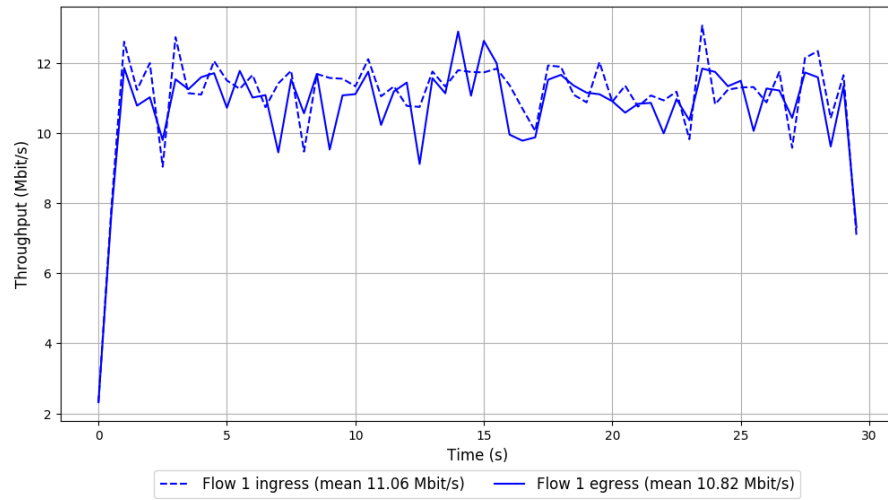


Run 6: Statistics of Sprout

Start at: 2018-04-17 04:07:35  
End at: 2018-04-17 04:08:06  
Local clock offset: 4.917 ms  
Remote clock offset: -2.295 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.82 Mbit/s  
95th percentile per-packet one-way delay: 47.979 ms  
Loss rate: 2.39%  
-- Flow 1:  
Average throughput: 10.82 Mbit/s  
95th percentile per-packet one-way delay: 47.979 ms  
Loss rate: 2.39%

## Run 6: Report of Sprout — Data Link



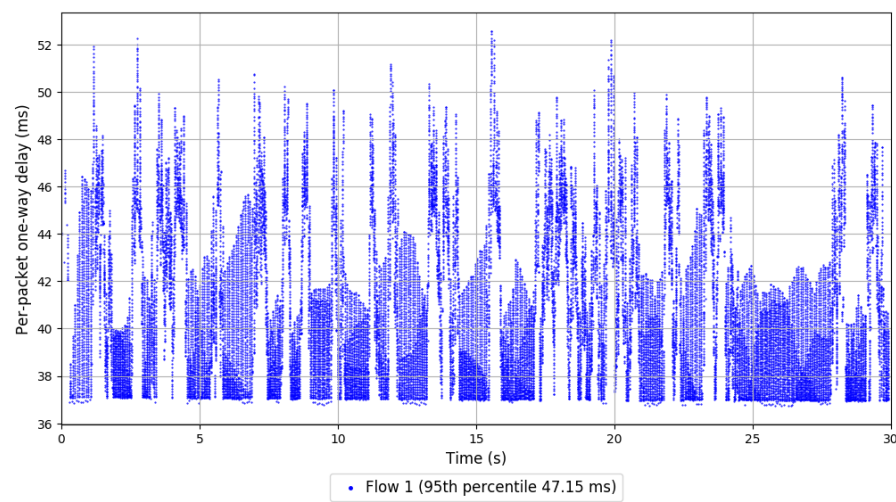
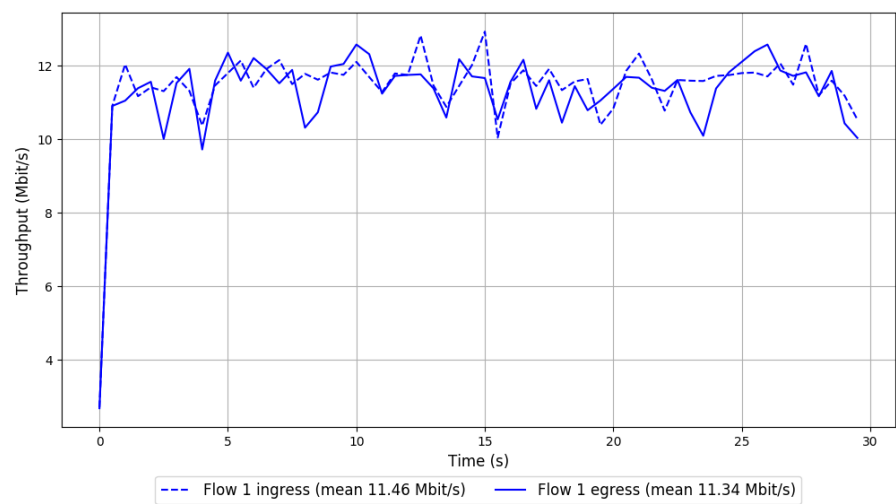
Run 7: Statistics of Sprout

Start at: 2018-04-17 04:32:53  
End at: 2018-04-17 04:33:23  
Local clock offset: 8.197 ms  
Remote clock offset: -5.683 ms

# Below is generated by plot.py at 2018-04-17 09:46:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.34 Mbit/s  
95th percentile per-packet one-way delay: 47.150 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 11.34 Mbit/s  
95th percentile per-packet one-way delay: 47.150 ms  
Loss rate: 1.24%



Run 7: Report of Sprout — Data Link

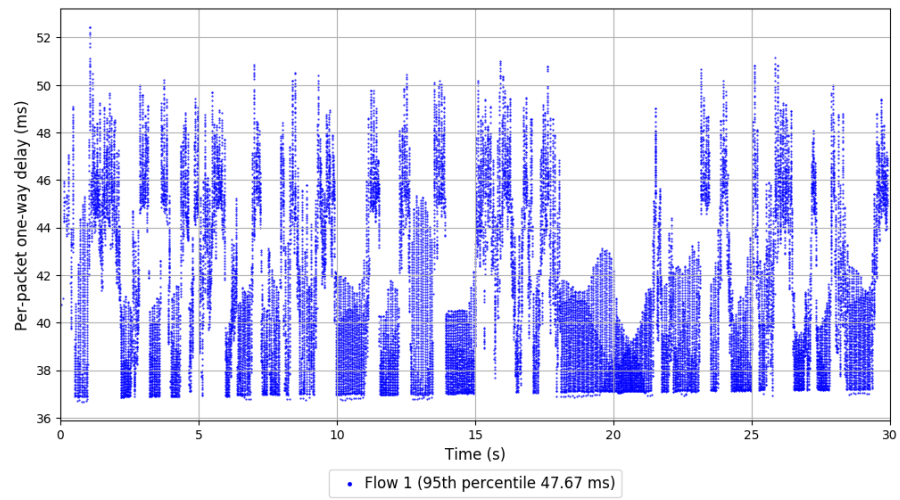
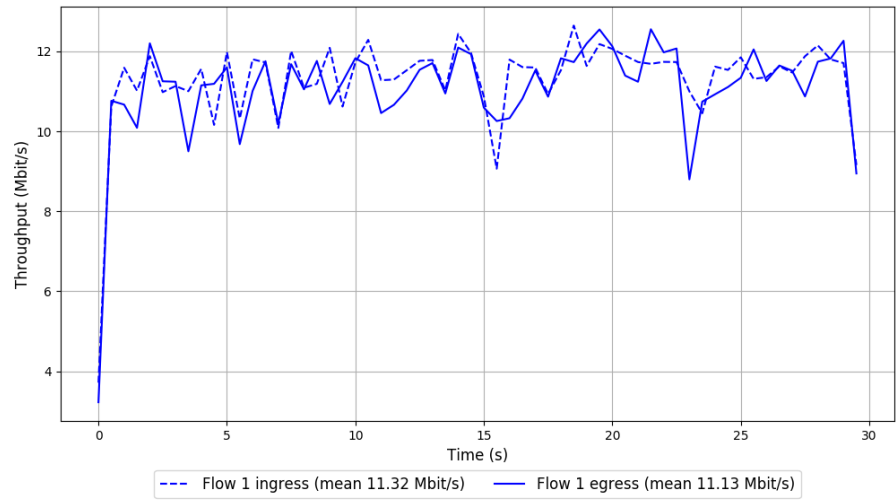


Run 8: Statistics of Sprout

Start at: 2018-04-17 04:57:24  
End at: 2018-04-17 04:57:54  
Local clock offset: 10.327 ms  
Remote clock offset: -7.193 ms

# Below is generated by plot.py at 2018-04-17 09:46:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.13 Mbit/s  
95th percentile per-packet one-way delay: 47.670 ms  
Loss rate: 1.83%  
-- Flow 1:  
Average throughput: 11.13 Mbit/s  
95th percentile per-packet one-way delay: 47.670 ms  
Loss rate: 1.83%

# Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-17 05:23:35

End at: 2018-04-17 05:24:05

Local clock offset: 12.462 ms

Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-04-17 09:46:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 46.559 ms

Loss rate: 1.19%

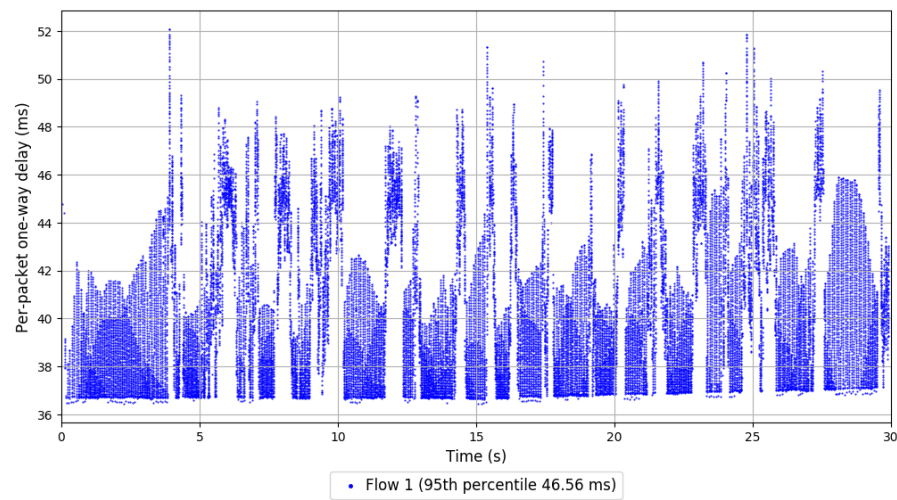
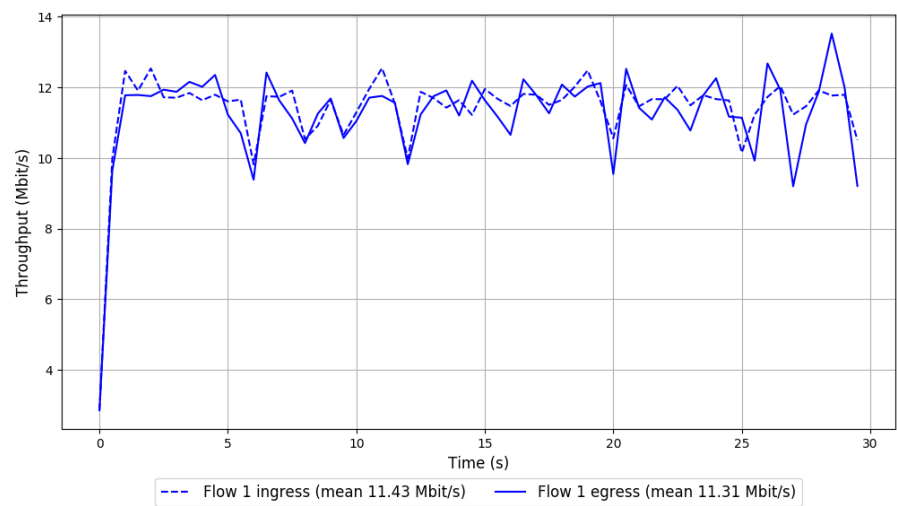
-- Flow 1:

Average throughput: 11.31 Mbit/s

95th percentile per-packet one-way delay: 46.559 ms

Loss rate: 1.19%

Run 9: Report of Sprout — Data Link

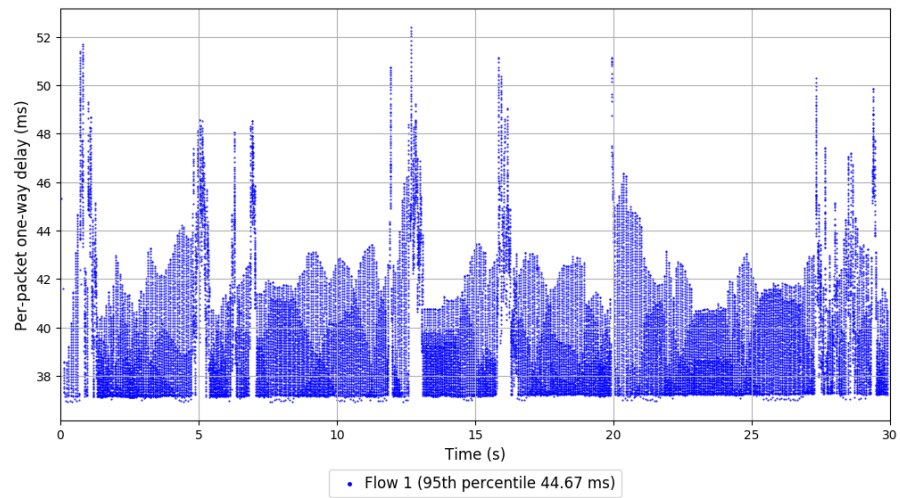
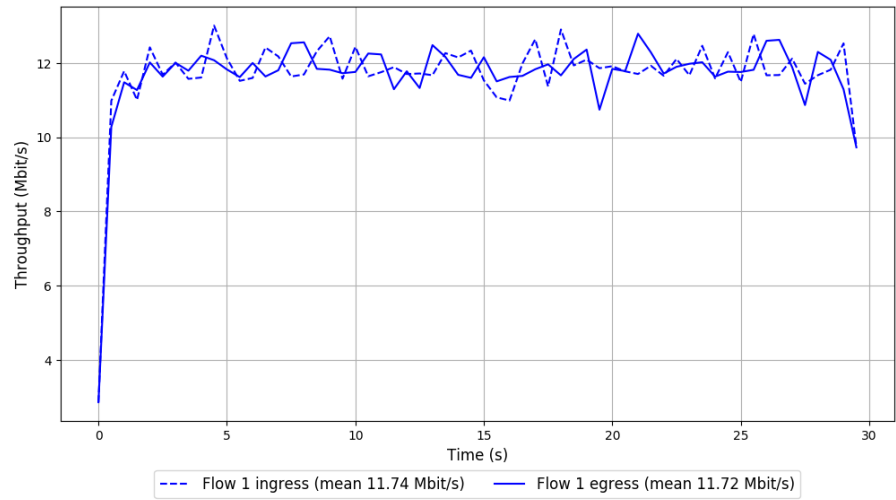


Run 10: Statistics of Sprout

Start at: 2018-04-17 05:46:51  
End at: 2018-04-17 05:47:21  
Local clock offset: -3.046 ms  
Remote clock offset: -1.745 ms

# Below is generated by plot.py at 2018-04-17 09:46:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.72 Mbit/s  
95th percentile per-packet one-way delay: 44.673 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 11.72 Mbit/s  
95th percentile per-packet one-way delay: 44.673 ms  
Loss rate: 0.41%

# Run 10: Report of Sprout — Data Link



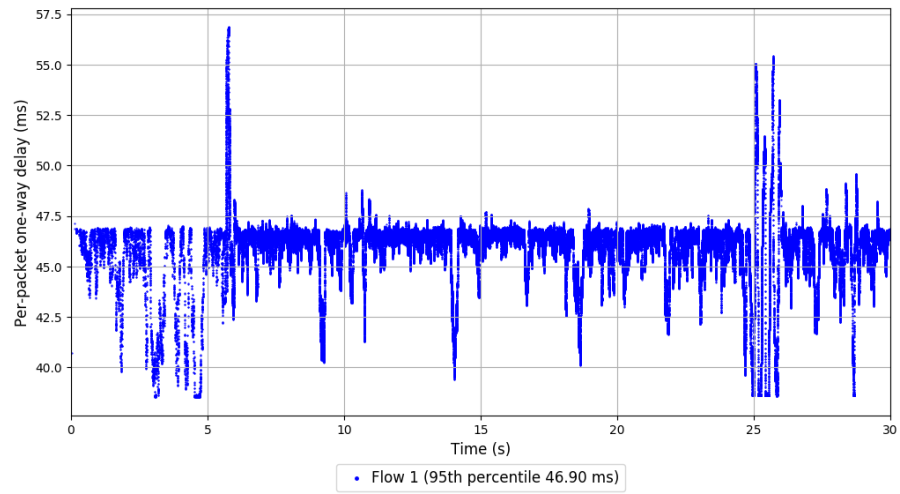
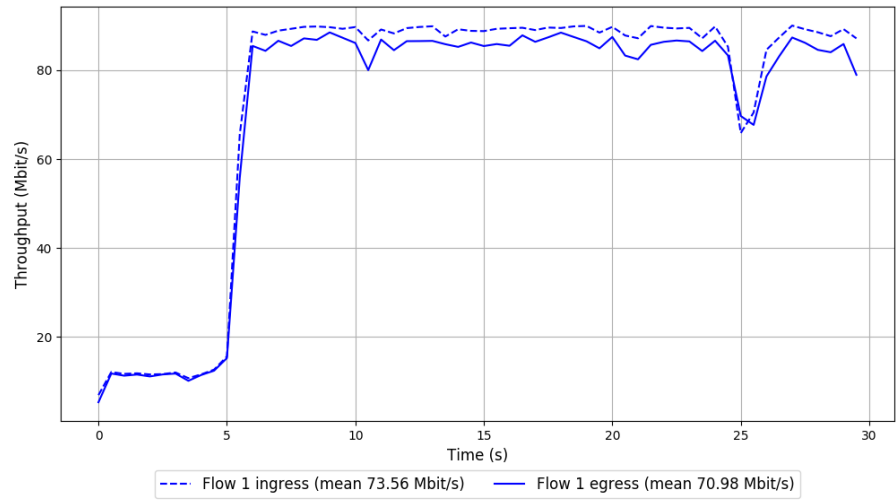
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 01:44:36
End at: 2018-04-17 01:45:06
Local clock offset: 0.578 ms
Remote clock offset: 3.578 ms

# Below is generated by plot.py at 2018-04-17 09:48:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.98 Mbit/s
95th percentile per-packet one-way delay: 46.902 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 70.98 Mbit/s
95th percentile per-packet one-way delay: 46.902 ms
Loss rate: 3.73%
```



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 02:10:51

End at: 2018-04-17 02:11:21

Local clock offset: -0.143 ms

Remote clock offset: 3.123 ms

# Below is generated by plot.py at 2018-04-17 09:48:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.82 Mbit/s

95th percentile per-packet one-way delay: 46.298 ms

Loss rate: 2.80%

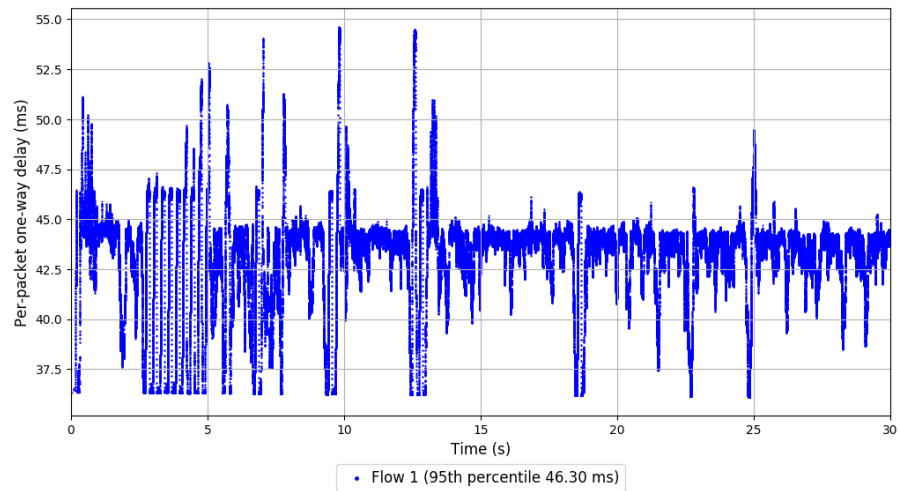
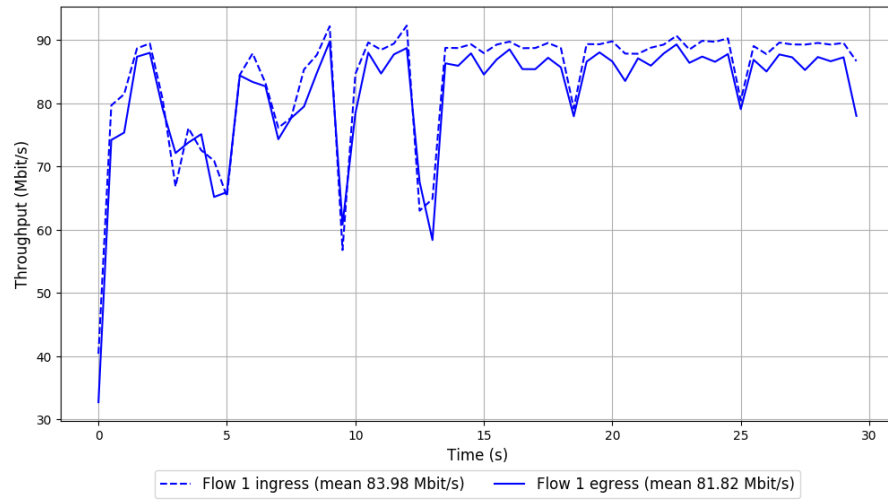
-- Flow 1:

Average throughput: 81.82 Mbit/s

95th percentile per-packet one-way delay: 46.298 ms

Loss rate: 2.80%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 02:39:03

End at: 2018-04-17 02:39:33

Local clock offset: -0.398 ms

Remote clock offset: -2.662 ms

# Below is generated by plot.py at 2018-04-17 09:48:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.46 Mbit/s

95th percentile per-packet one-way delay: 45.286 ms

Loss rate: 4.82%

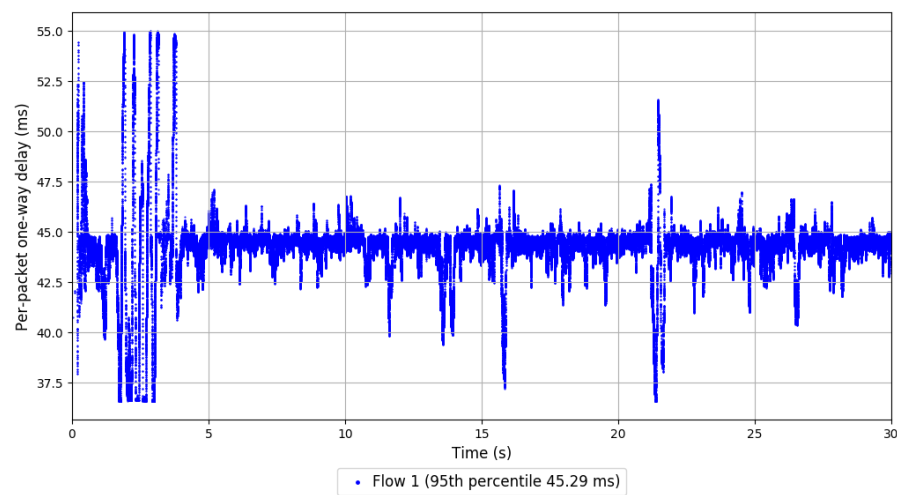
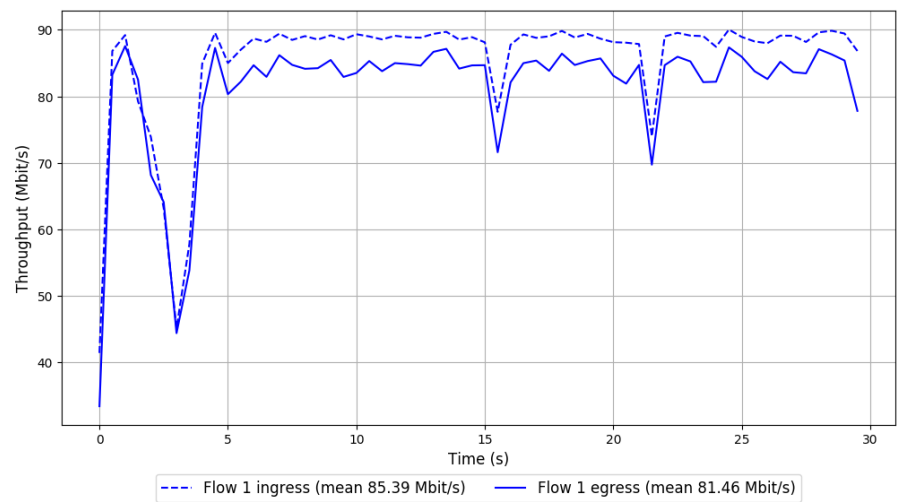
-- Flow 1:

Average throughput: 81.46 Mbit/s

95th percentile per-packet one-way delay: 45.286 ms

Loss rate: 4.82%

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

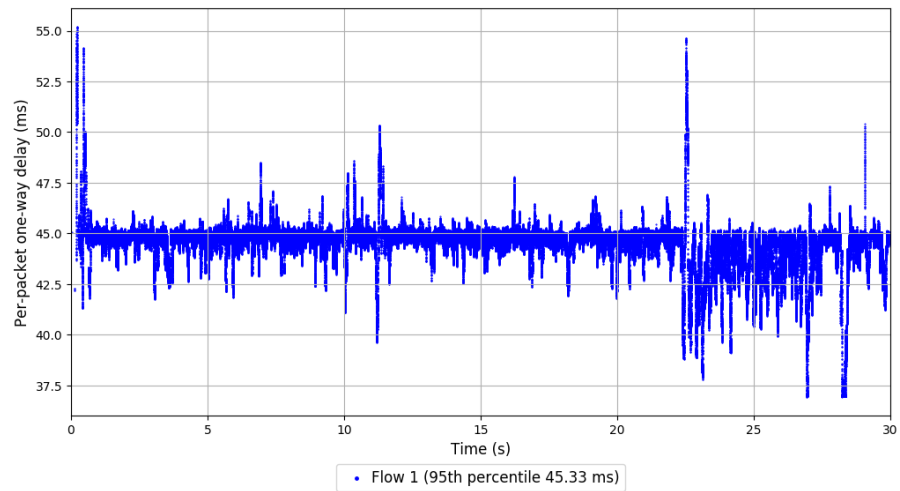
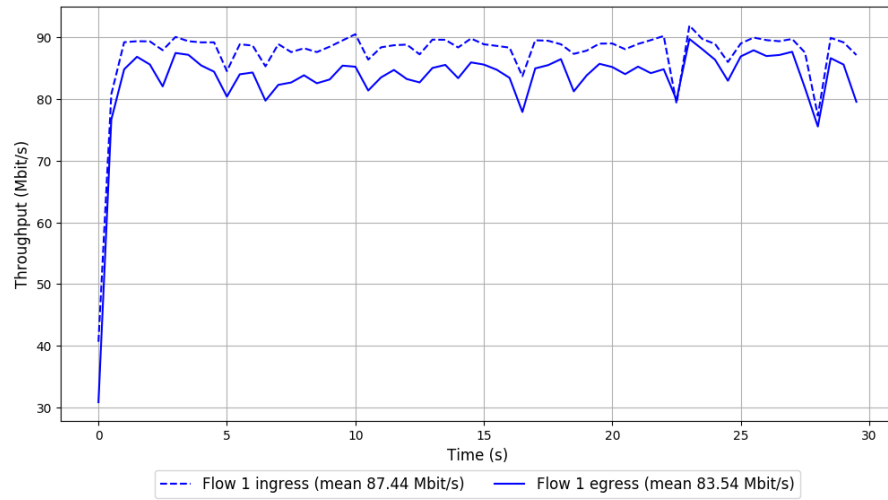


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 03:07:07  
End at: 2018-04-17 03:07:37  
Local clock offset: -0.457 ms  
Remote clock offset: -3.242 ms

# Below is generated by plot.py at 2018-04-17 09:48:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.54 Mbit/s  
95th percentile per-packet one-way delay: 45.325 ms  
Loss rate: 4.70%  
-- Flow 1:  
Average throughput: 83.54 Mbit/s  
95th percentile per-packet one-way delay: 45.325 ms  
Loss rate: 4.70%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 03:36:34

End at: 2018-04-17 03:37:04

Local clock offset: 0.017 ms

Remote clock offset: -6.487 ms

# Below is generated by plot.py at 2018-04-17 09:48:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.49 Mbit/s

95th percentile per-packet one-way delay: 46.926 ms

Loss rate: 3.84%

-- Flow 1:

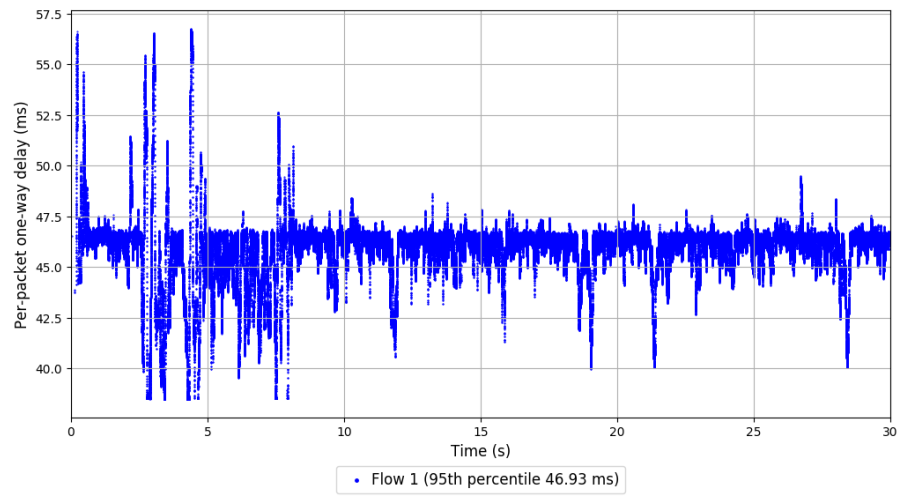
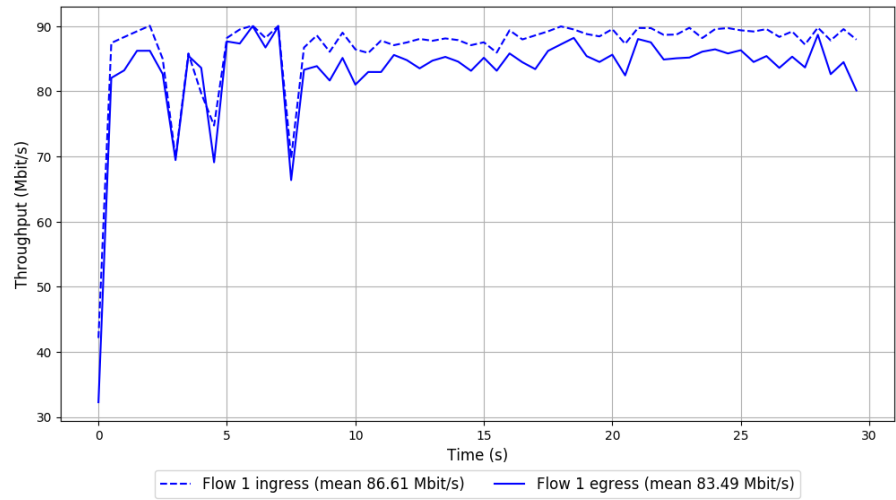
Average throughput: 83.49 Mbit/s

95th percentile per-packet one-way delay: 46.926 ms

Loss rate: 3.84%



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



Run 6: Statistics of TaoVA-100x

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

End at: 2018-04-17 04:05:05

Local clock offset: 4.681 ms

Remote clock offset: -2.202 ms

# Below is generated by plot.py at 2018-04-17 09:48:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.12 Mbit/s

95th percentile per-packet one-way delay: 45.187 ms

Loss rate: 4.81%

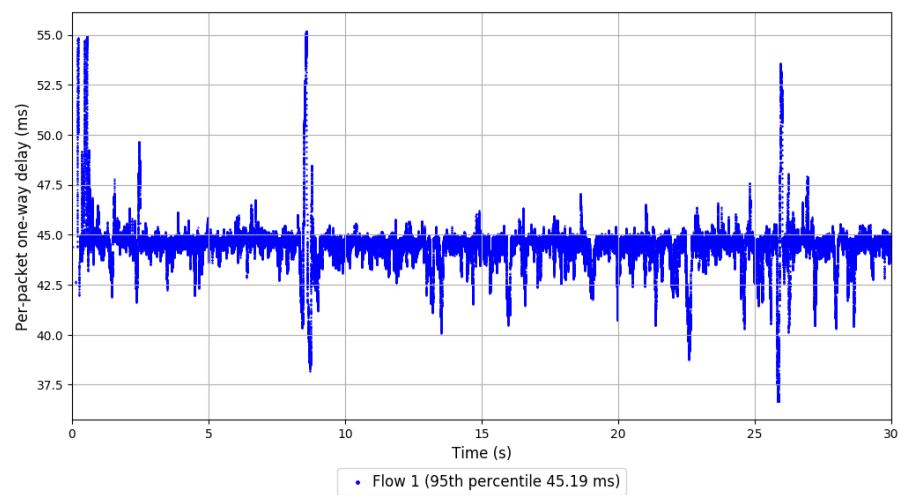
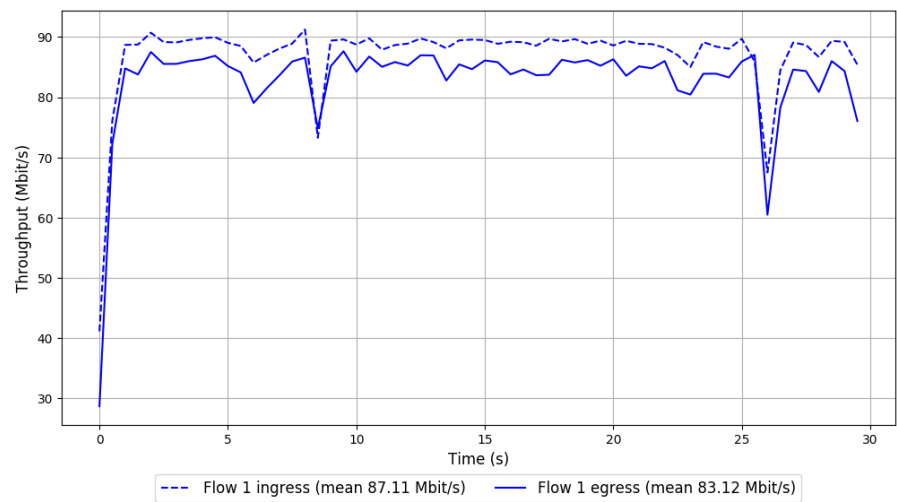
-- Flow 1:

Average throughput: 83.12 Mbit/s

95th percentile per-packet one-way delay: 45.187 ms

Loss rate: 4.81%

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

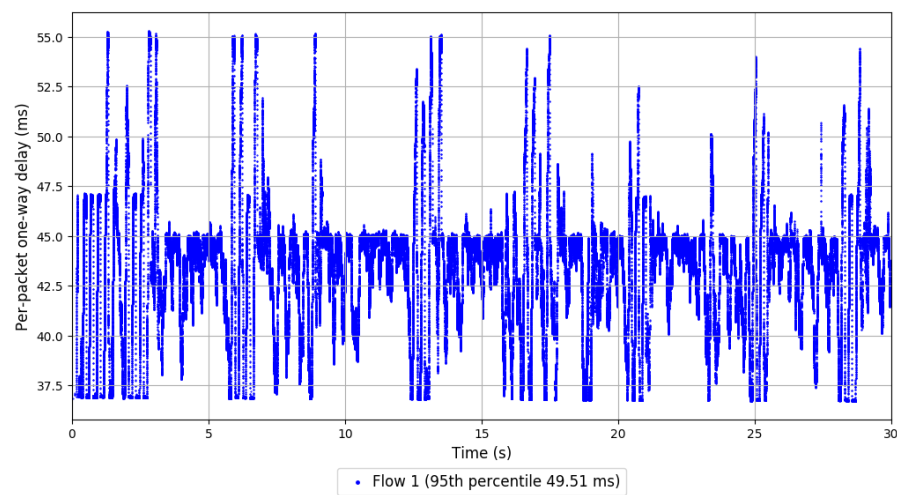
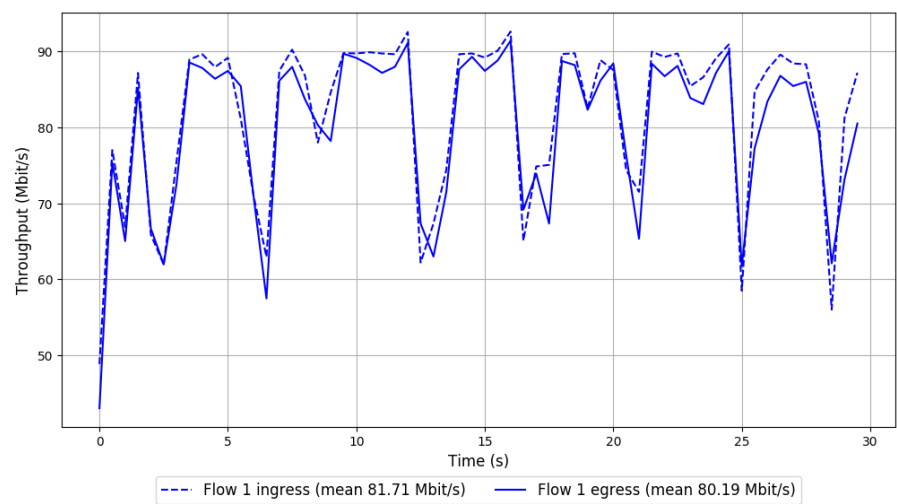


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 04:31:00  
End at: 2018-04-17 04:31:30  
Local clock offset: 7.997 ms  
Remote clock offset: -5.118 ms

# Below is generated by plot.py at 2018-04-17 09:48:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.19 Mbit/s  
95th percentile per-packet one-way delay: 49.513 ms  
Loss rate: 2.07%  
-- Flow 1:  
Average throughput: 80.19 Mbit/s  
95th percentile per-packet one-way delay: 49.513 ms  
Loss rate: 2.07%

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

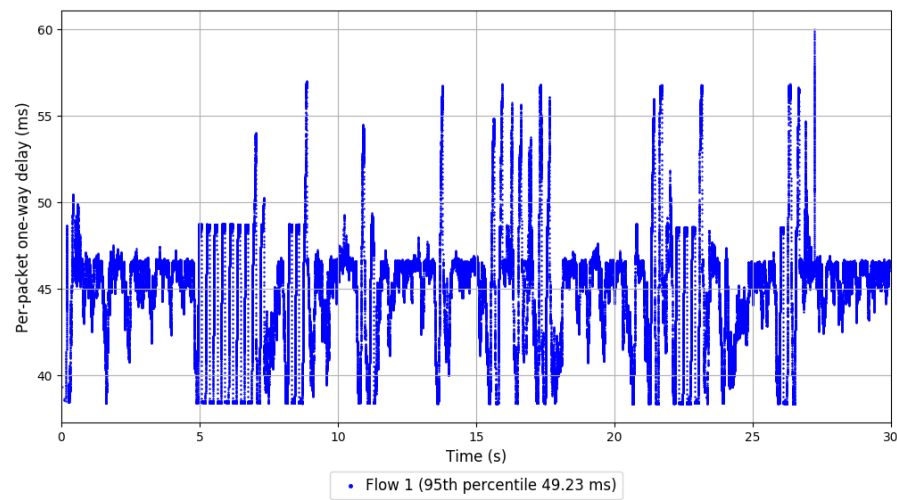
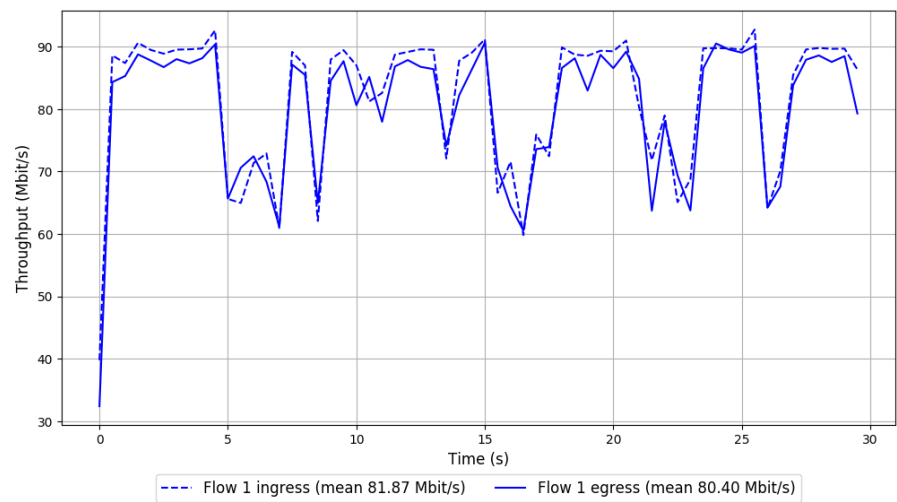


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 04:55:16  
End at: 2018-04-17 04:55:46  
Local clock offset: 10.14 ms  
Remote clock offset: -8.241 ms

# Below is generated by plot.py at 2018-04-17 09:48:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.40 Mbit/s  
95th percentile per-packet one-way delay: 49.235 ms  
Loss rate: 2.02%  
-- Flow 1:  
Average throughput: 80.40 Mbit/s  
95th percentile per-packet one-way delay: 49.235 ms  
Loss rate: 2.02%

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



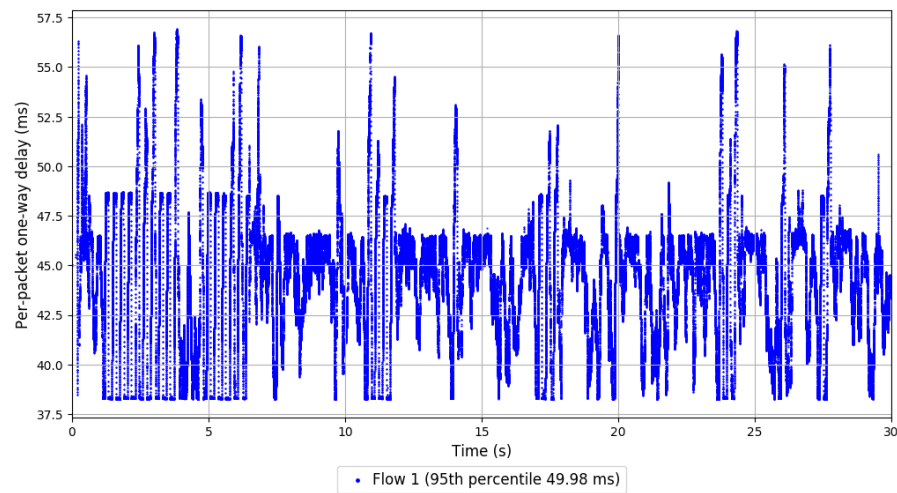
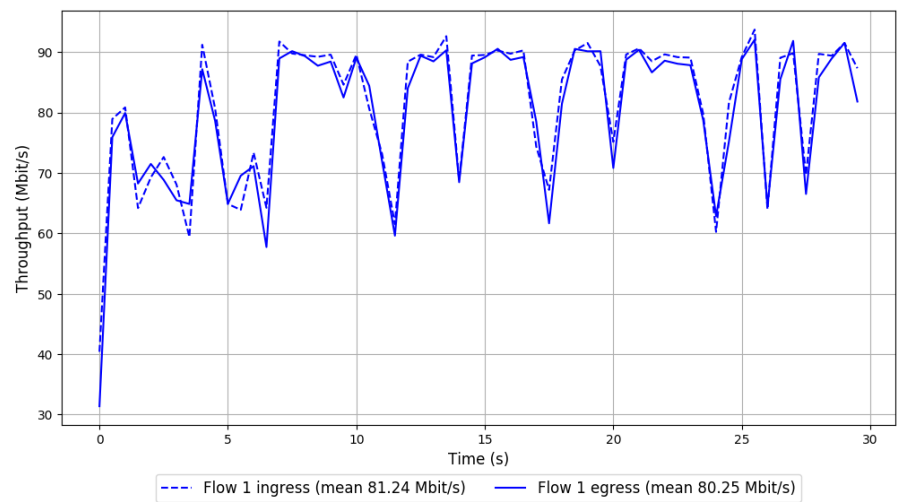
Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 05:21:48  
End at: 2018-04-17 05:22:18  
Local clock offset: 12.234 ms  
Remote clock offset: -0.431 ms

# Below is generated by plot.py at 2018-04-17 09:50:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.25 Mbit/s  
95th percentile per-packet one-way delay: 49.985 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 80.25 Mbit/s  
95th percentile per-packet one-way delay: 49.985 ms  
Loss rate: 1.46%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 05:45:27

End at: 2018-04-17 05:45:57

Local clock offset: -2.682 ms

Remote clock offset: -1.821 ms

# Below is generated by plot.py at 2018-04-17 09:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.97 Mbit/s

95th percentile per-packet one-way delay: 51.883 ms

Loss rate: 1.09%

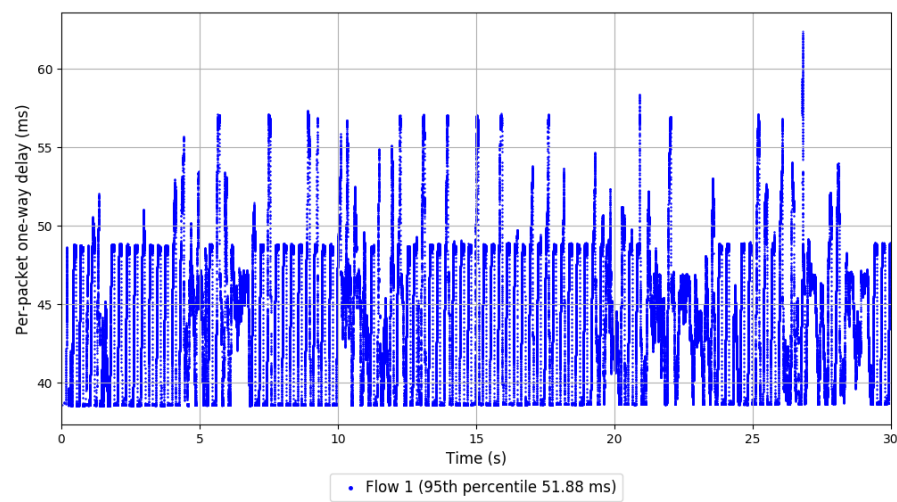
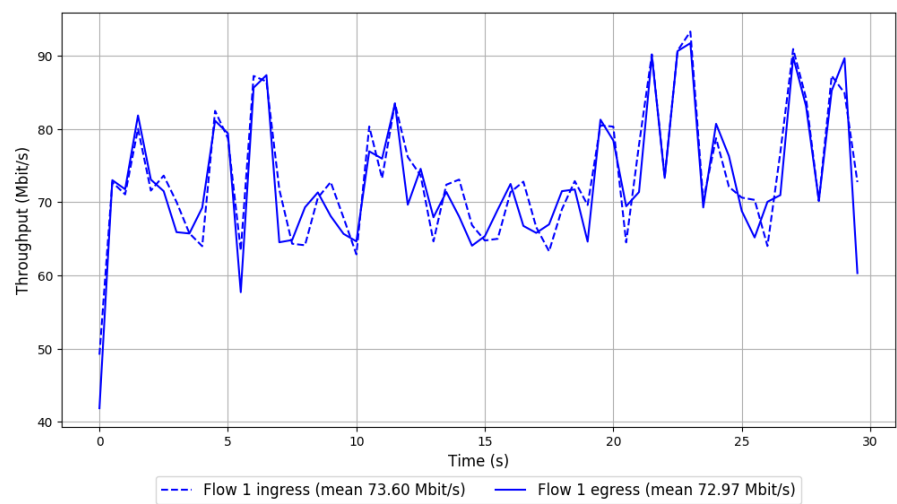
-- Flow 1:

Average throughput: 72.97 Mbit/s

95th percentile per-packet one-way delay: 51.883 ms

Loss rate: 1.09%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 01:29:02

End at: 2018-04-17 01:29:32

Local clock offset: 4.483 ms

Remote clock offset: 1.63 ms

# Below is generated by plot.py at 2018-04-17 09:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 45.643 ms

Loss rate: 2.58%

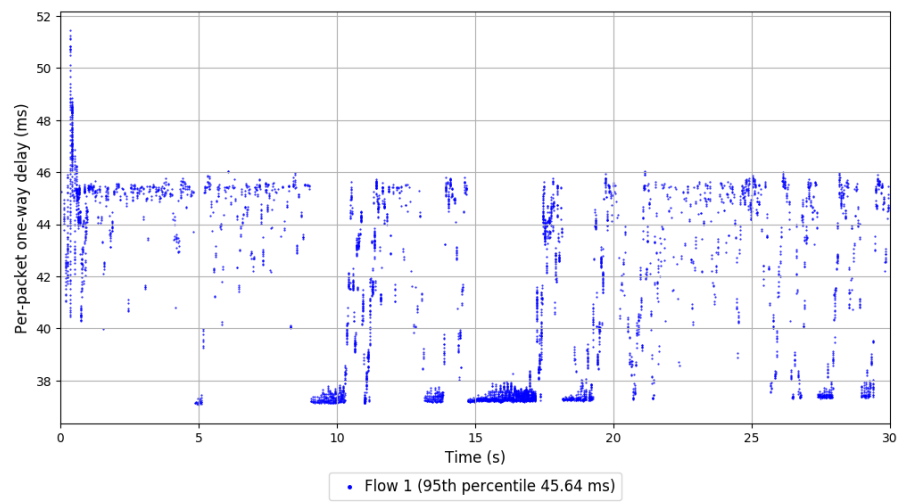
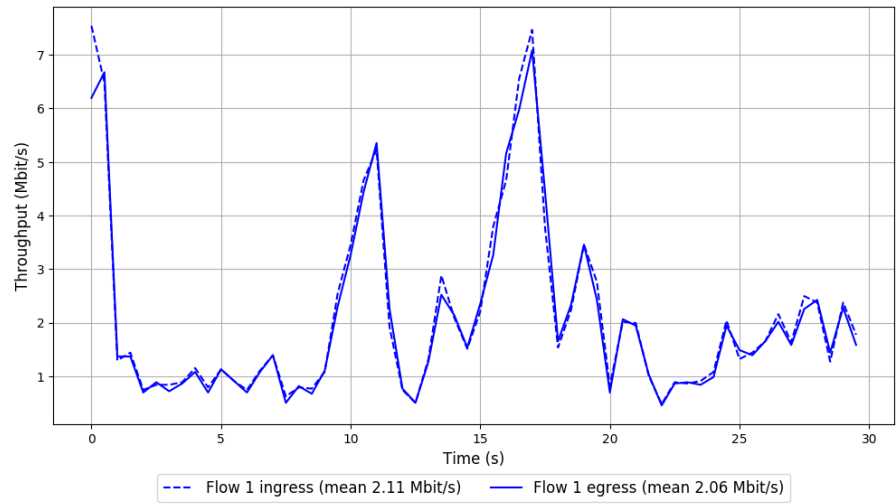
-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 45.643 ms

Loss rate: 2.58%

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



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 01:55:37

End at: 2018-04-17 01:56:07

Local clock offset: -0.127 ms

Remote clock offset: 5.744 ms

# Below is generated by plot.py at 2018-04-17 09:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 46.960 ms

Loss rate: 1.87%

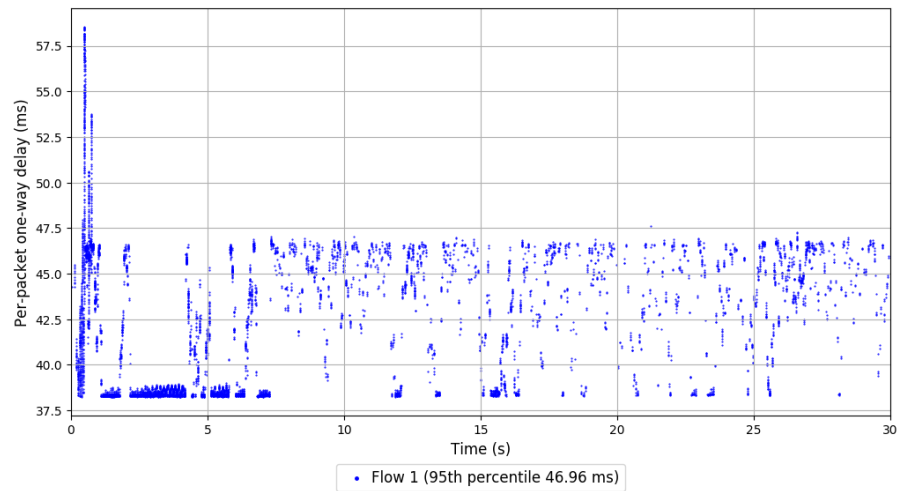
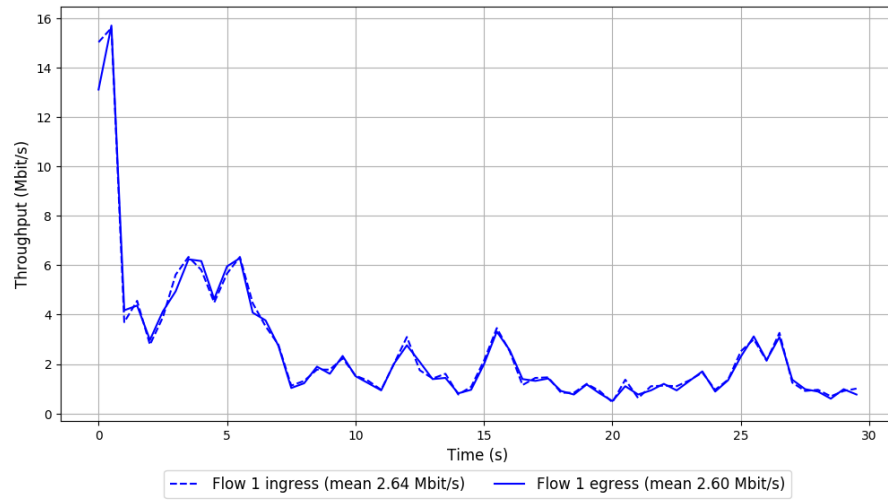
-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 46.960 ms

Loss rate: 1.87%

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



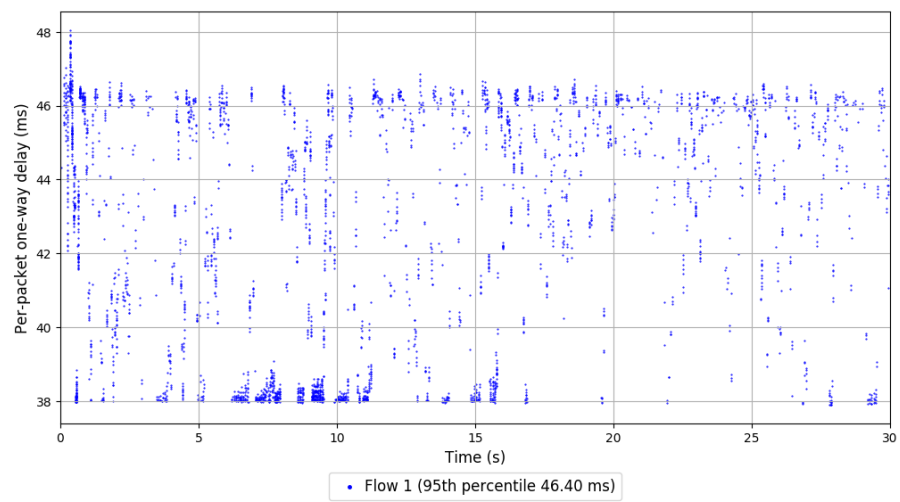
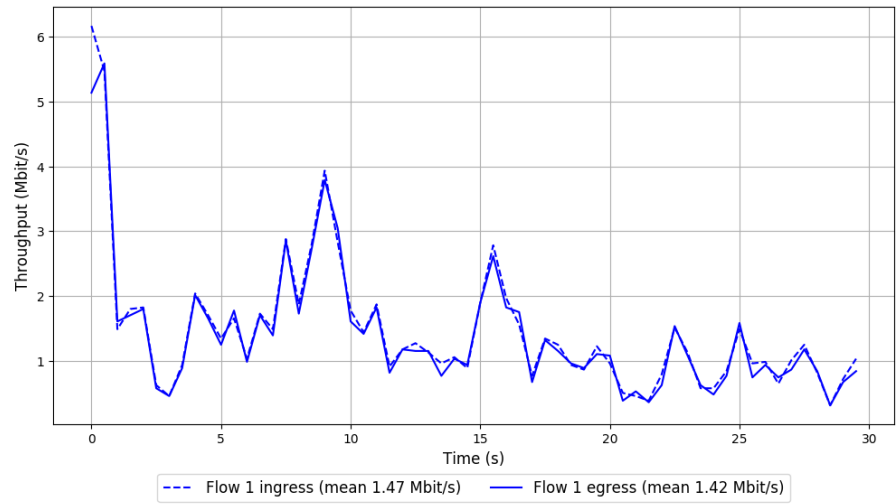
Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 02:21:55  
End at: 2018-04-17 02:22:25  
Local clock offset: -0.345 ms  
Remote clock offset: -1.159 ms

# Below is generated by plot.py at 2018-04-17 09:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.42 Mbit/s  
95th percentile per-packet one-way delay: 46.403 ms  
Loss rate: 3.60%  
-- Flow 1:  
Average throughput: 1.42 Mbit/s  
95th percentile per-packet one-way delay: 46.403 ms  
Loss rate: 3.60%



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

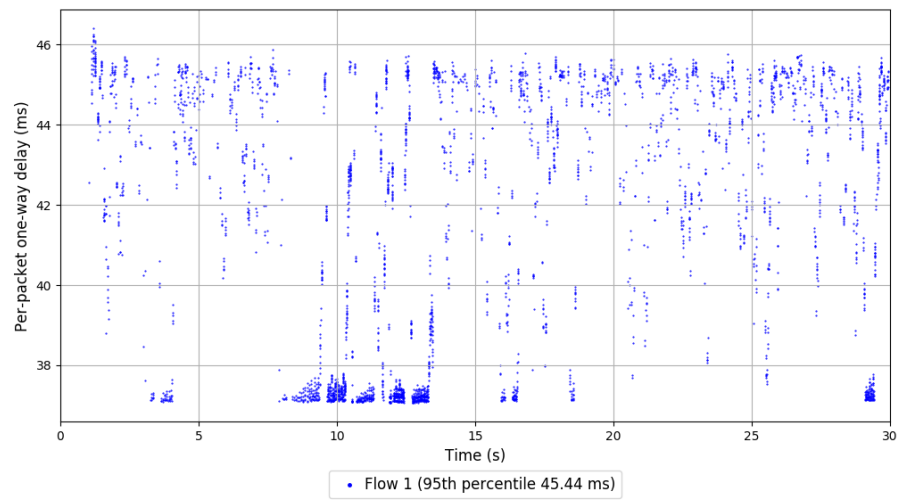
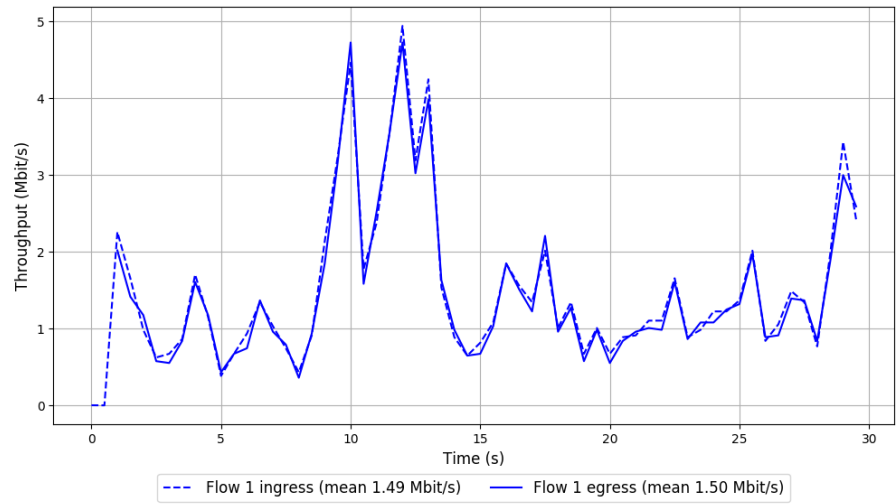


Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 02:51:12  
End at: 2018-04-17 02:51:42  
Local clock offset: -0.276 ms  
Remote clock offset: -2.989 ms

# Below is generated by plot.py at 2018-04-17 09:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 45.437 ms  
Loss rate: 3.06%  
-- Flow 1:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 45.437 ms  
Loss rate: 3.06%

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

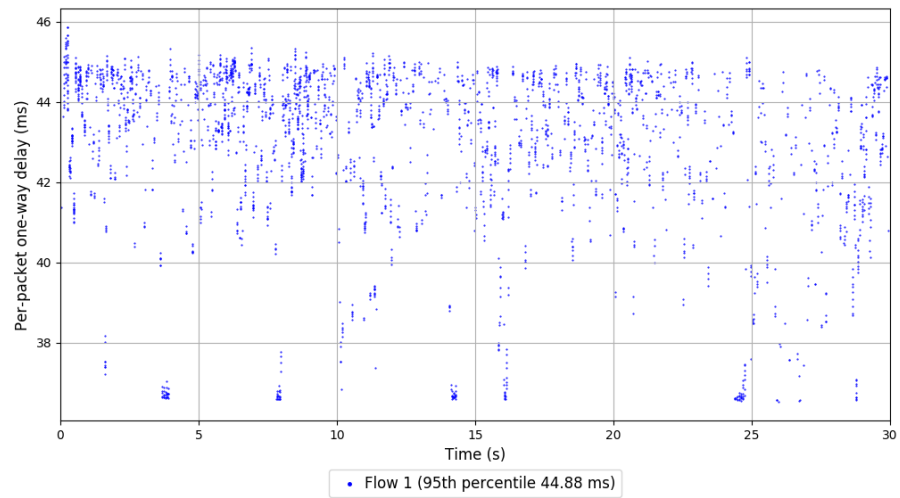
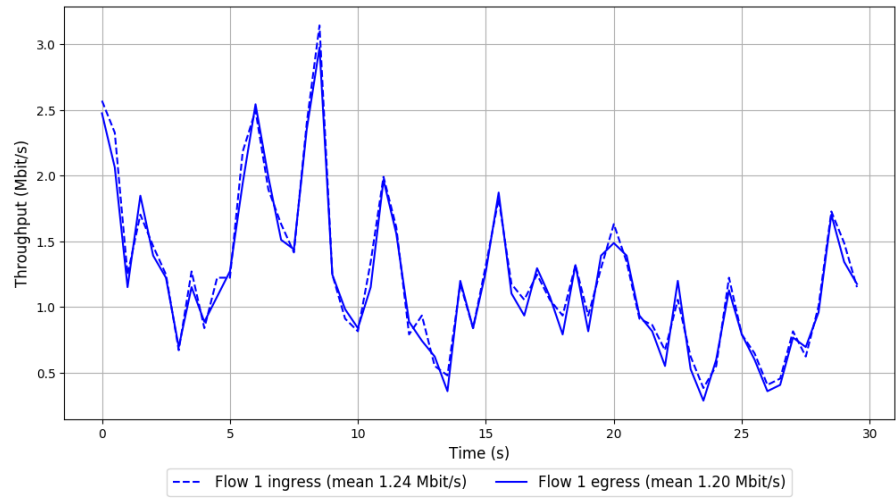


Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 03:19:46  
End at: 2018-04-17 03:20:17  
Local clock offset: -0.046 ms  
Remote clock offset: -4.214 ms

# Below is generated by plot.py at 2018-04-17 09:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.20 Mbit/s  
95th percentile per-packet one-way delay: 44.885 ms  
Loss rate: 2.94%  
-- Flow 1:  
Average throughput: 1.20 Mbit/s  
95th percentile per-packet one-way delay: 44.885 ms  
Loss rate: 2.94%

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

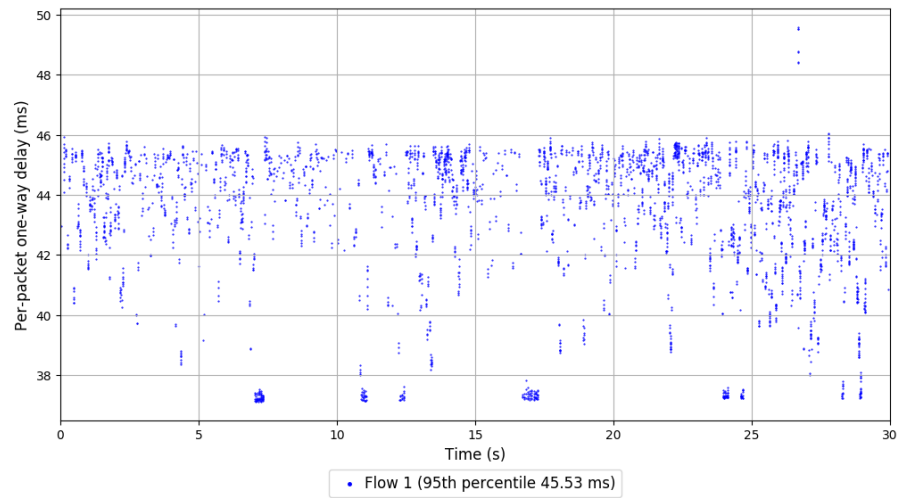
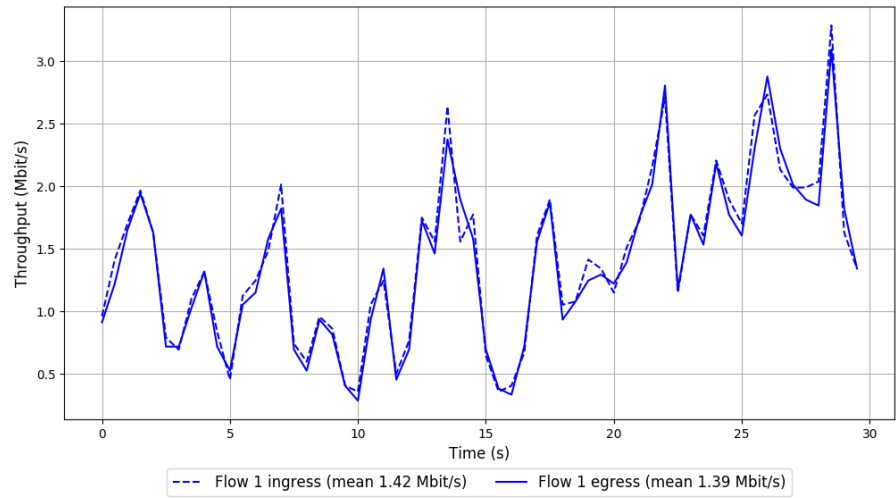


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 03:48:56  
End at: 2018-04-17 03:49:27  
Local clock offset: 2.51 ms  
Remote clock offset: -6.919 ms

# Below is generated by plot.py at 2018-04-17 09:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.39 Mbit/s  
95th percentile per-packet one-way delay: 45.526 ms  
Loss rate: 2.73%  
-- Flow 1:  
Average throughput: 1.39 Mbit/s  
95th percentile per-packet one-way delay: 45.526 ms  
Loss rate: 2.73%

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



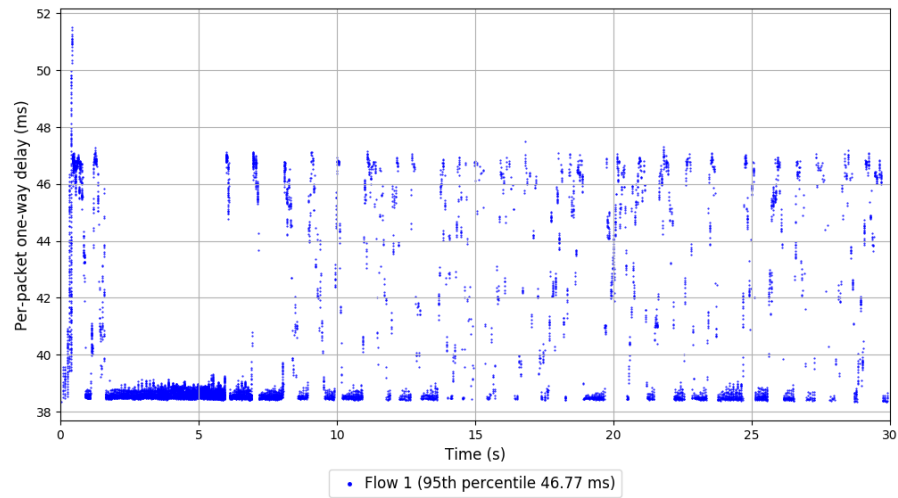
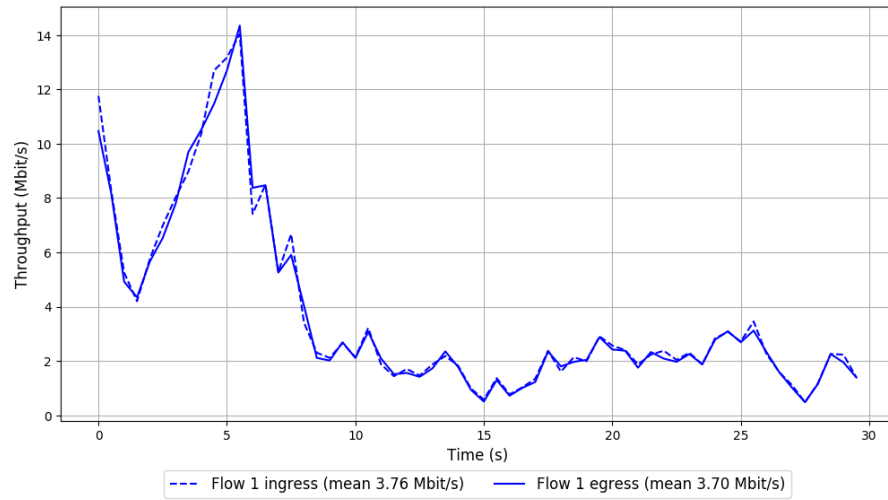
Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 04:16:52  
End at: 2018-04-17 04:17:22  
Local clock offset: 5.714 ms  
Remote clock offset: -1.783 ms

# Below is generated by plot.py at 2018-04-17 09:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.70 Mbit/s  
95th percentile per-packet one-way delay: 46.769 ms  
Loss rate: 1.86%  
-- Flow 1:  
Average throughput: 3.70 Mbit/s  
95th percentile per-packet one-way delay: 46.769 ms  
Loss rate: 1.86%



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

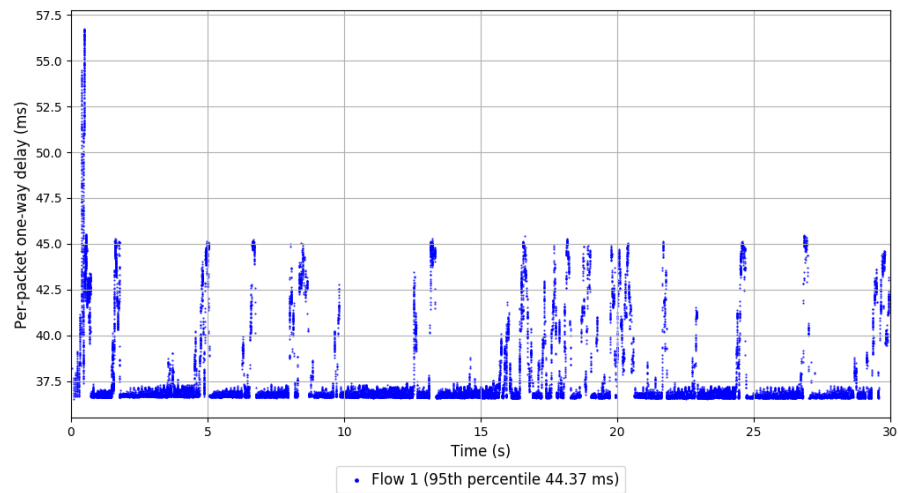
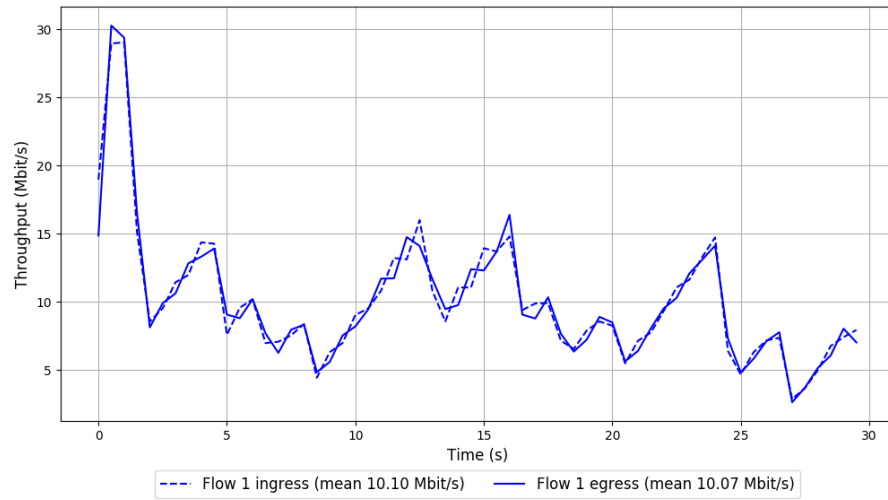


Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 04:41:45  
End at: 2018-04-17 04:42:15  
Local clock offset: 9.051 ms  
Remote clock offset: -6.632 ms

# Below is generated by plot.py at 2018-04-17 09:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.07 Mbit/s  
95th percentile per-packet one-way delay: 44.366 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 10.07 Mbit/s  
95th percentile per-packet one-way delay: 44.366 ms  
Loss rate: 0.55%

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

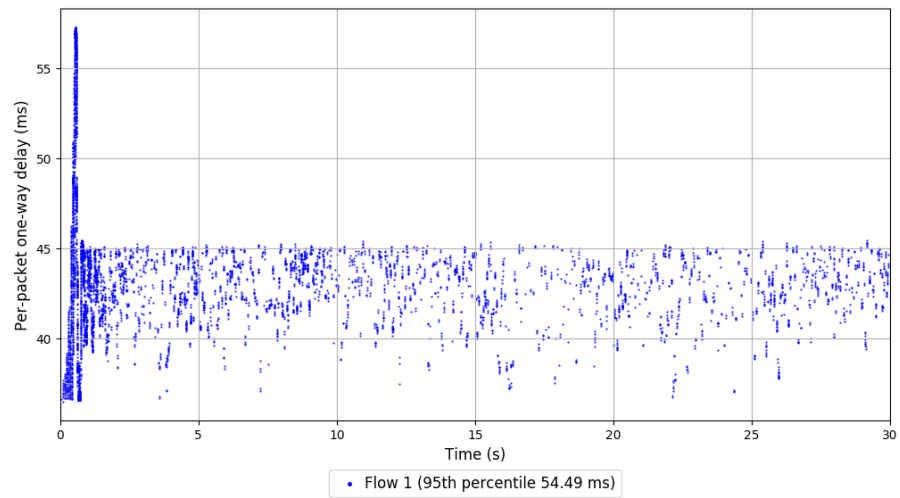
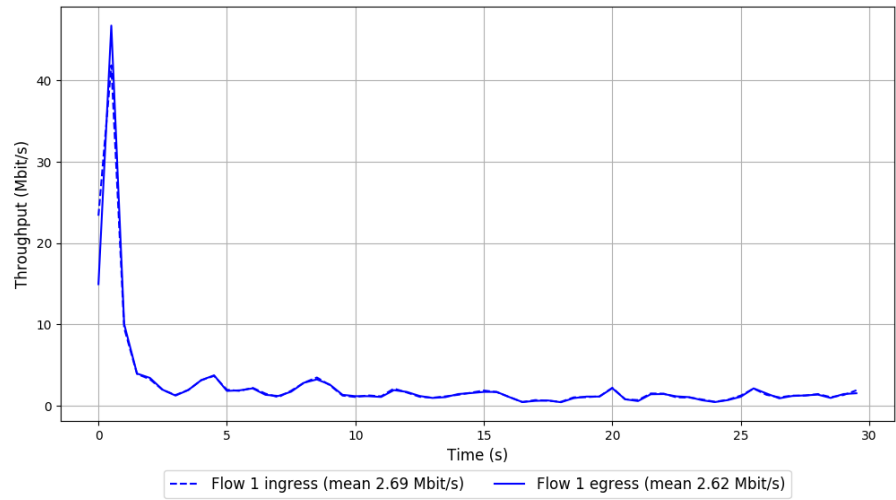


Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 05:06:34  
End at: 2018-04-17 05:07:04  
Local clock offset: 11.092 ms  
Remote clock offset: -2.494 ms

# Below is generated by plot.py at 2018-04-17 09:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.62 Mbit/s  
95th percentile per-packet one-way delay: 54.495 ms  
Loss rate: 2.75%  
-- Flow 1:  
Average throughput: 2.62 Mbit/s  
95th percentile per-packet one-way delay: 54.495 ms  
Loss rate: 2.75%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 05:32:03

End at: 2018-04-17 05:32:33

Local clock offset: 3.664 ms

Remote clock offset: 0.294 ms

# Below is generated by plot.py at 2018-04-17 09:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 55.255 ms

Loss rate: 0.84%

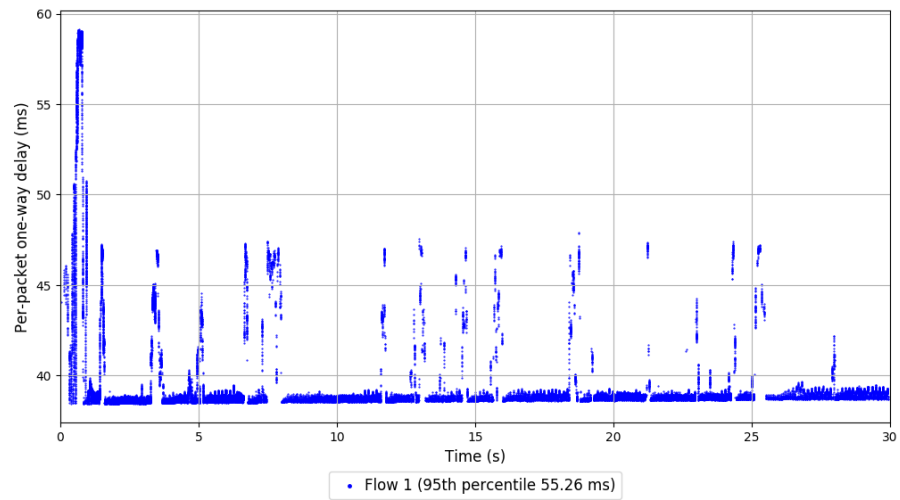
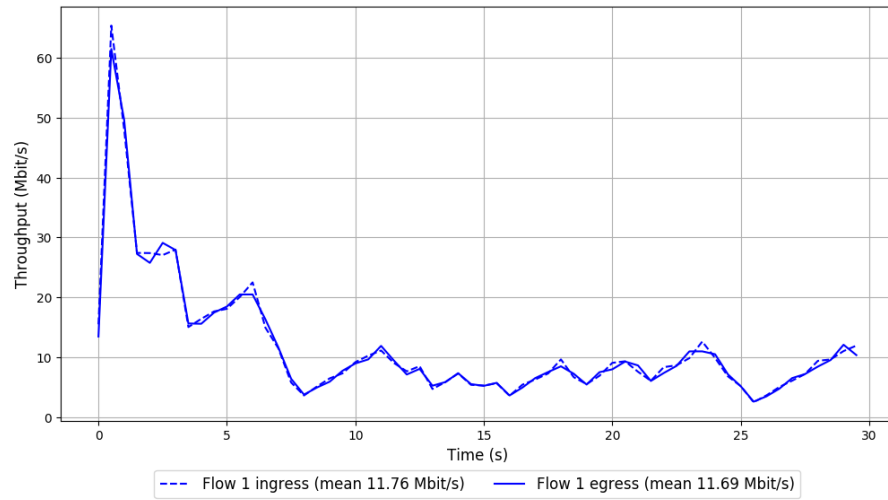
-- Flow 1:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 55.255 ms

Loss rate: 0.84%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-17 01:35:41

End at: 2018-04-17 01:36:11

Local clock offset: 2.145 ms

Remote clock offset: 2.248 ms

# Below is generated by plot.py at 2018-04-17 09:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 59.167 ms

Loss rate: 3.74%

-- Flow 1:

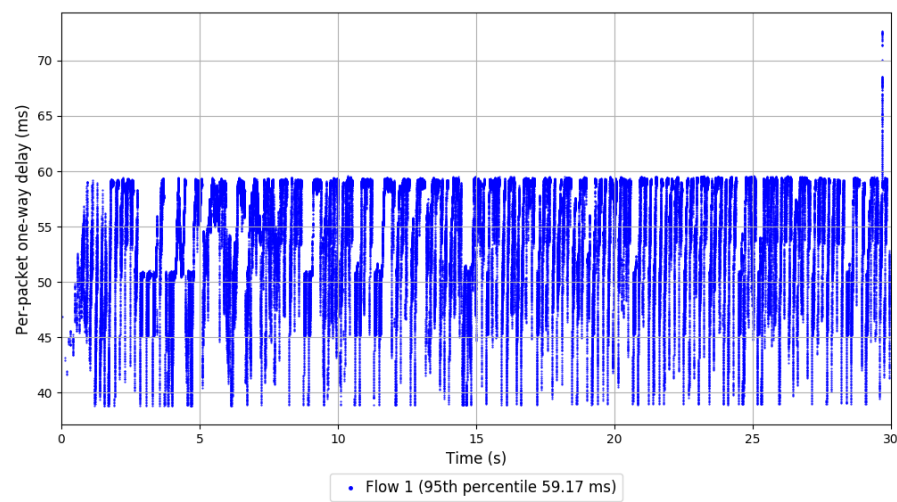
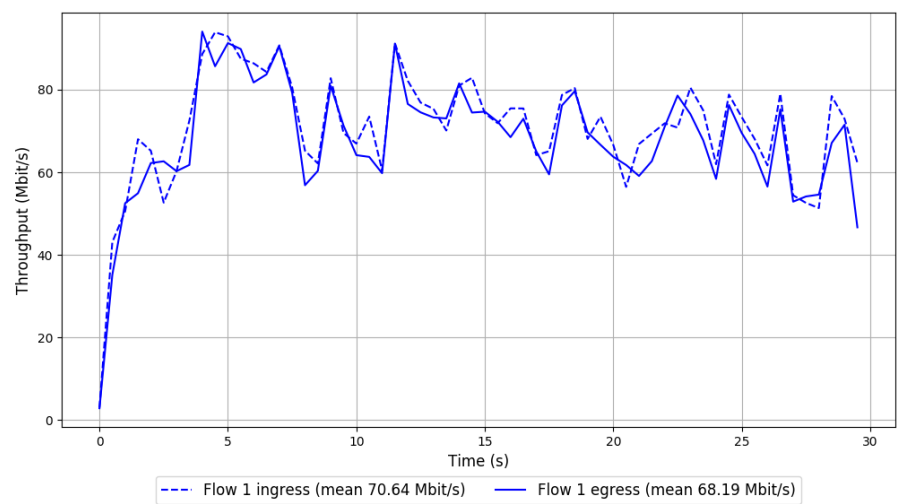
Average throughput: 68.19 Mbit/s

95th percentile per-packet one-way delay: 59.167 ms

Loss rate: 3.74%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-17 02:02:11

End at: 2018-04-17 02:02:41

Local clock offset: -0.215 ms

Remote clock offset: 6.873 ms

# Below is generated by plot.py at 2018-04-17 09:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 57.075 ms

Loss rate: 3.14%

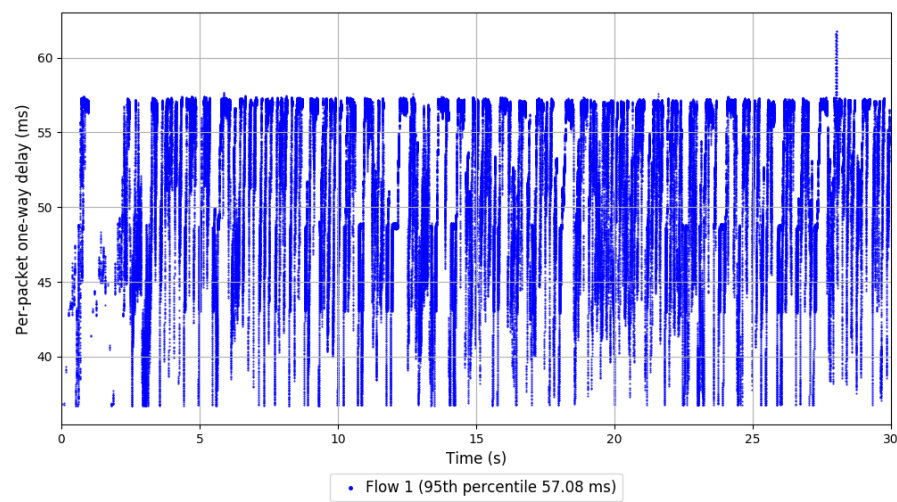
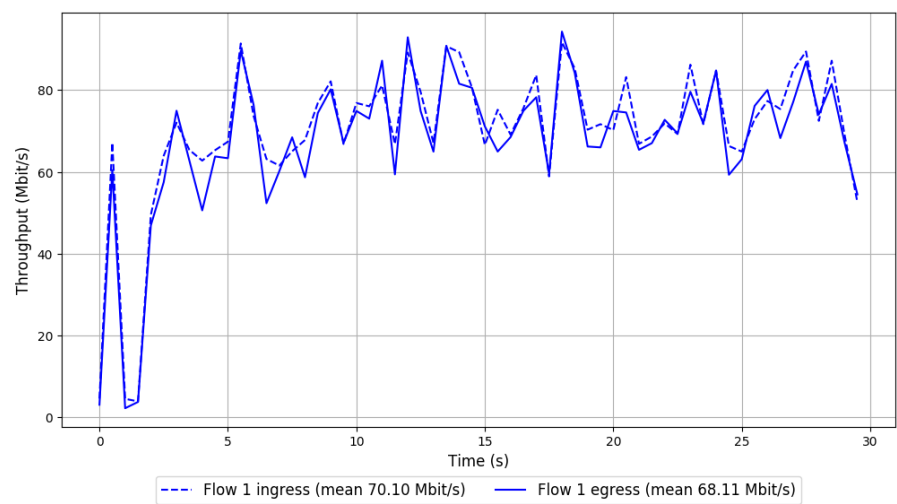
-- Flow 1:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 57.075 ms

Loss rate: 3.14%

Run 2: Report of Verus — Data Link

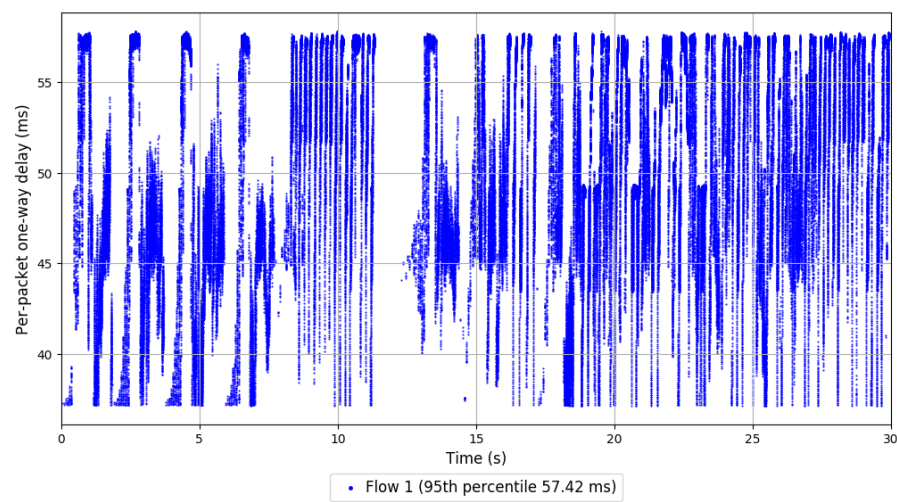
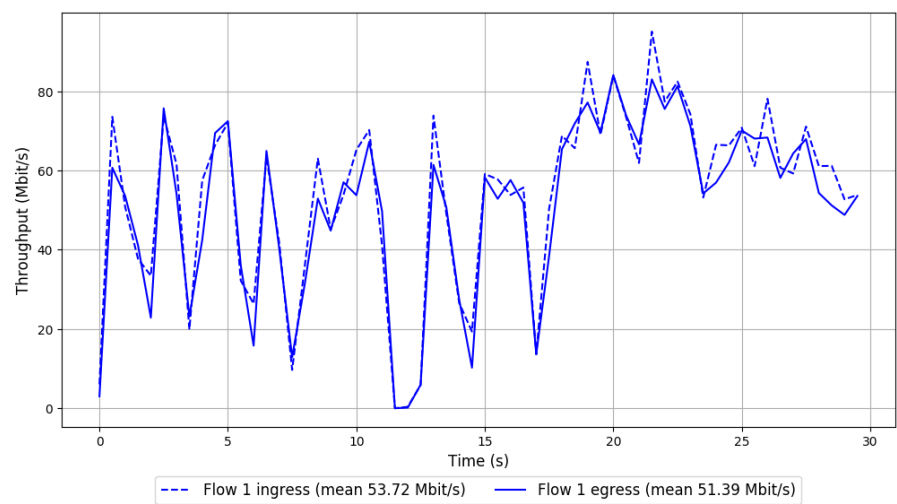


Run 3: Statistics of Verus

Start at: 2018-04-17 02:29:21  
End at: 2018-04-17 02:29:51  
Local clock offset: -0.366 ms  
Remote clock offset: -2.607 ms

# Below is generated by plot.py at 2018-04-17 09:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 51.39 Mbit/s  
95th percentile per-packet one-way delay: 57.417 ms  
Loss rate: 4.65%  
-- Flow 1:  
Average throughput: 51.39 Mbit/s  
95th percentile per-packet one-way delay: 57.417 ms  
Loss rate: 4.65%

Run 3: Report of Verus — Data Link

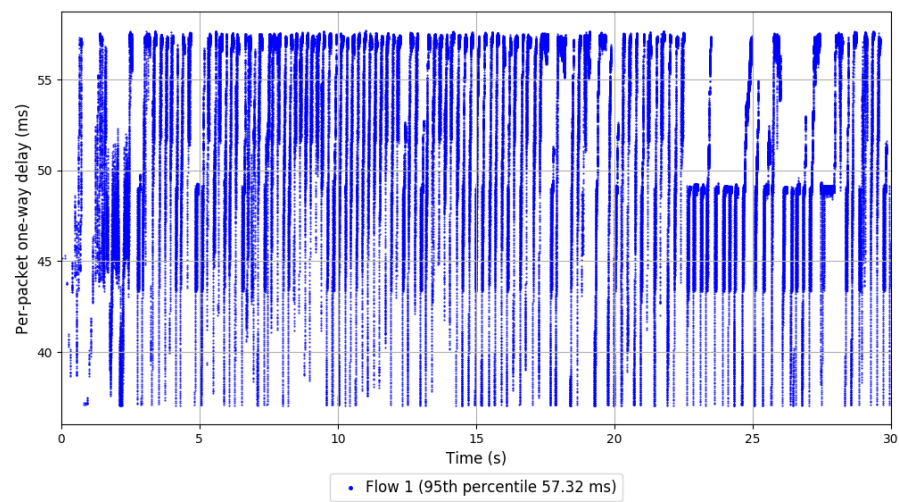
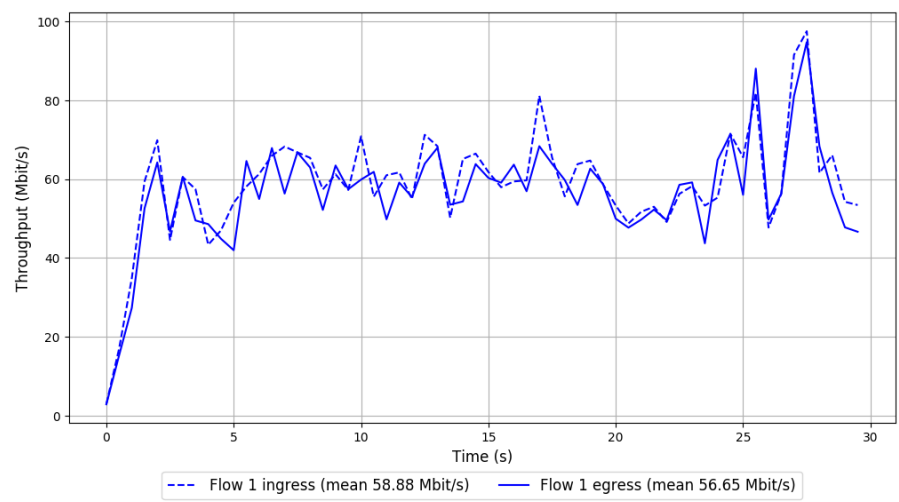


Run 4: Statistics of Verus

Start at: 2018-04-17 02:57:59  
End at: 2018-04-17 02:58:29  
Local clock offset: -0.301 ms  
Remote clock offset: -3.163 ms

# Below is generated by plot.py at 2018-04-17 09:50:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 56.65 Mbit/s  
95th percentile per-packet one-way delay: 57.320 ms  
Loss rate: 4.04%  
-- Flow 1:  
Average throughput: 56.65 Mbit/s  
95th percentile per-packet one-way delay: 57.320 ms  
Loss rate: 4.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-17 03:27:12

End at: 2018-04-17 03:27:42

Local clock offset: 0.017 ms

Remote clock offset: -5.66 ms

# Below is generated by plot.py at 2018-04-17 09:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.76 Mbit/s

95th percentile per-packet one-way delay: 57.138 ms

Loss rate: 7.25%

-- Flow 1:

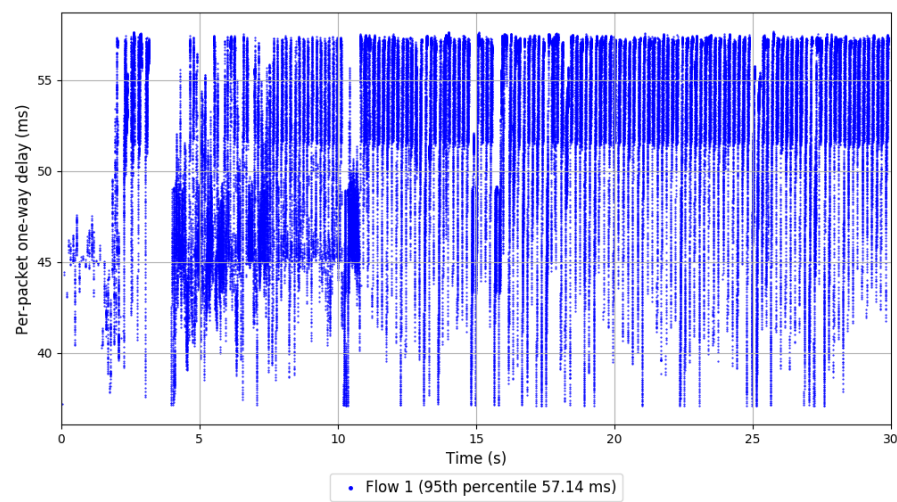
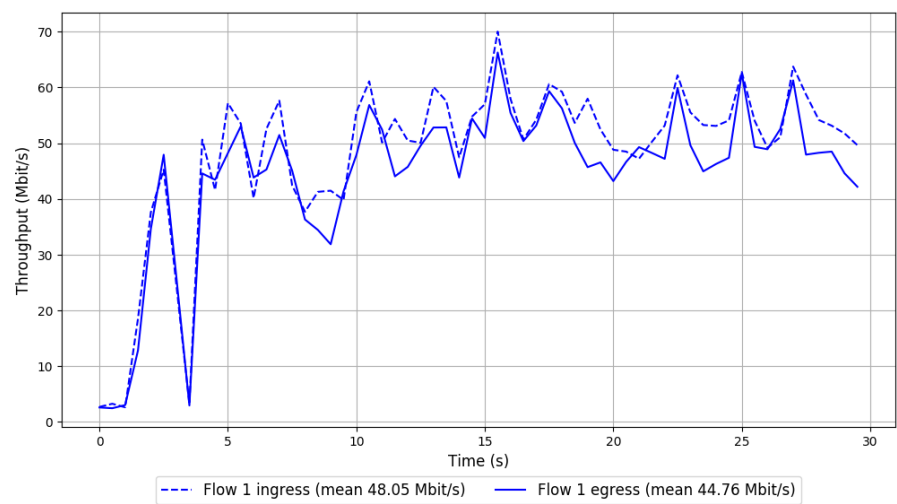
Average throughput: 44.76 Mbit/s

95th percentile per-packet one-way delay: 57.138 ms

Loss rate: 7.25%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-17 03:55:25

End at: 2018-04-17 03:55:55

Local clock offset: 3.679 ms

Remote clock offset: -3.86 ms

# Below is generated by plot.py at 2018-04-17 09:50:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 57.087 ms

Loss rate: 4.10%

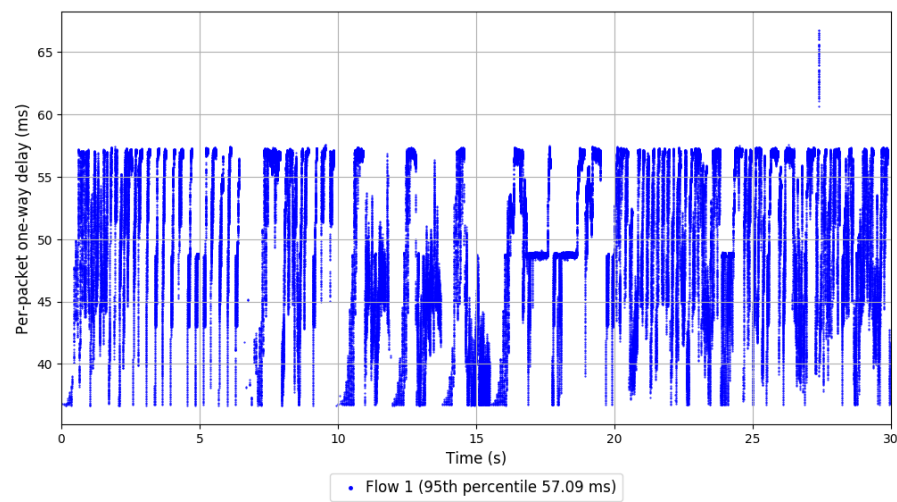
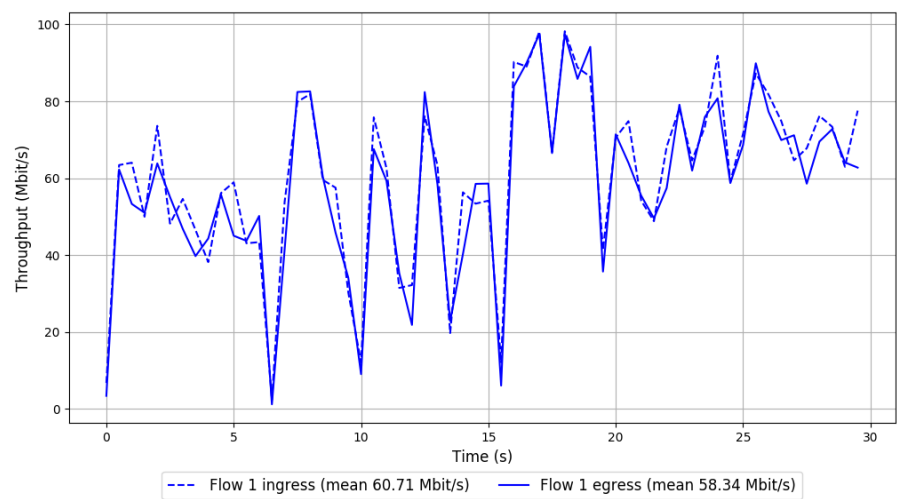
-- Flow 1:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 57.087 ms

Loss rate: 4.10%

Run 6: Report of Verus — Data Link

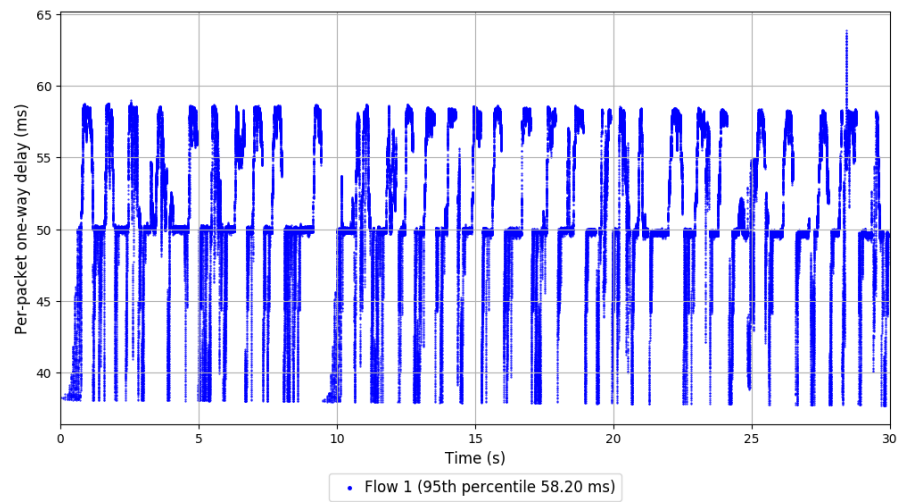
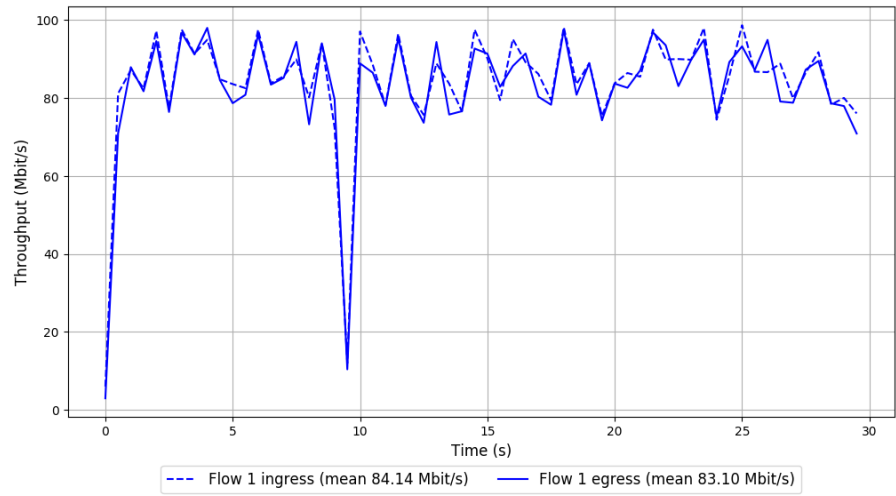


Run 7: Statistics of Verus

Start at: 2018-04-17 04:22:32  
End at: 2018-04-17 04:23:02  
Local clock offset: 6.866 ms  
Remote clock offset: -1.444 ms

# Below is generated by plot.py at 2018-04-17 09:50:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.10 Mbit/s  
95th percentile per-packet one-way delay: 58.205 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 83.10 Mbit/s  
95th percentile per-packet one-way delay: 58.205 ms  
Loss rate: 1.47%

## Run 7: Report of Verus — Data Link

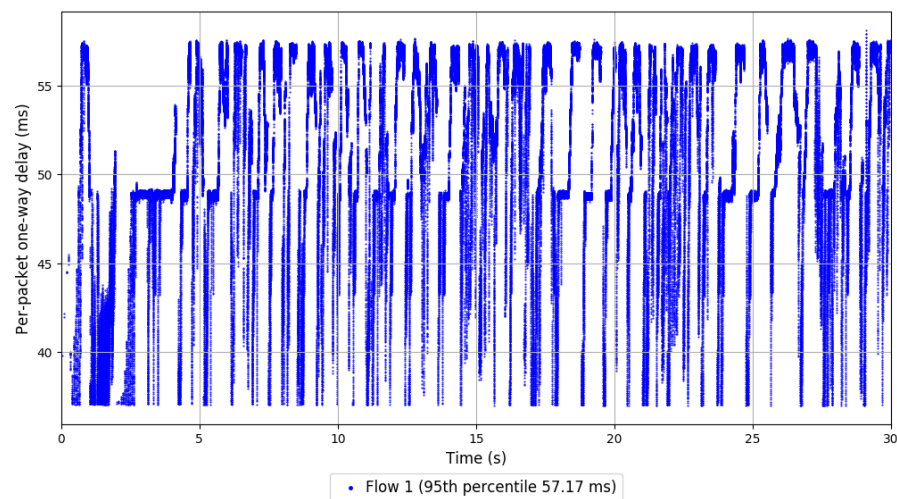
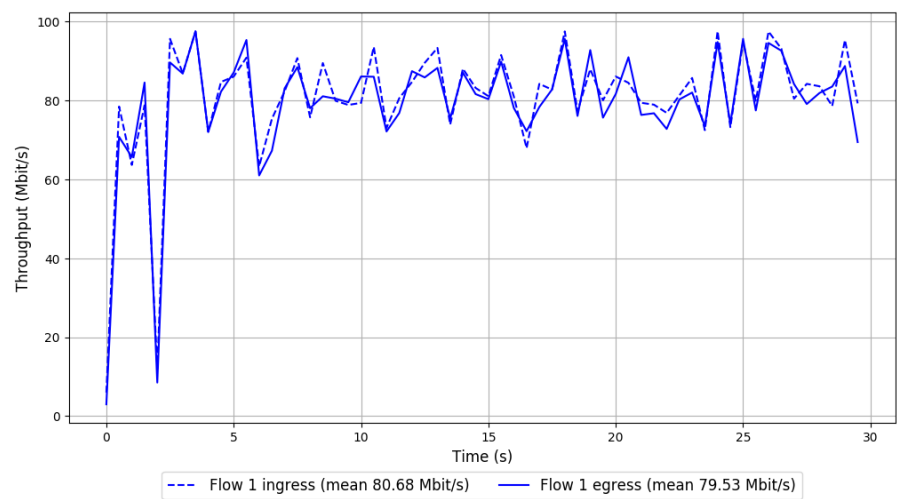


Run 8: Statistics of Verus

Start at: 2018-04-17 04:47:12  
End at: 2018-04-17 04:47:42  
Local clock offset: 9.499 ms  
Remote clock offset: -7.716 ms

# Below is generated by plot.py at 2018-04-17 09:50:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.53 Mbit/s  
95th percentile per-packet one-way delay: 57.170 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 79.53 Mbit/s  
95th percentile per-packet one-way delay: 57.170 ms  
Loss rate: 1.67%

Run 8: Report of Verus — Data Link



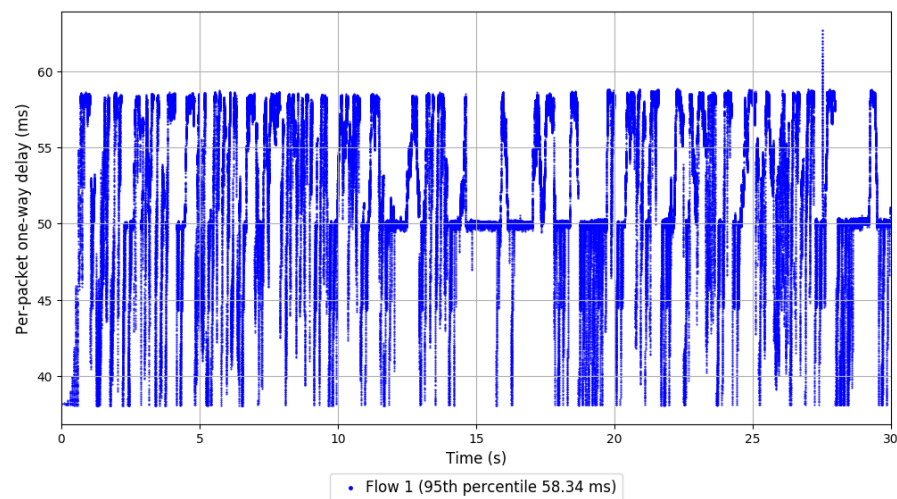
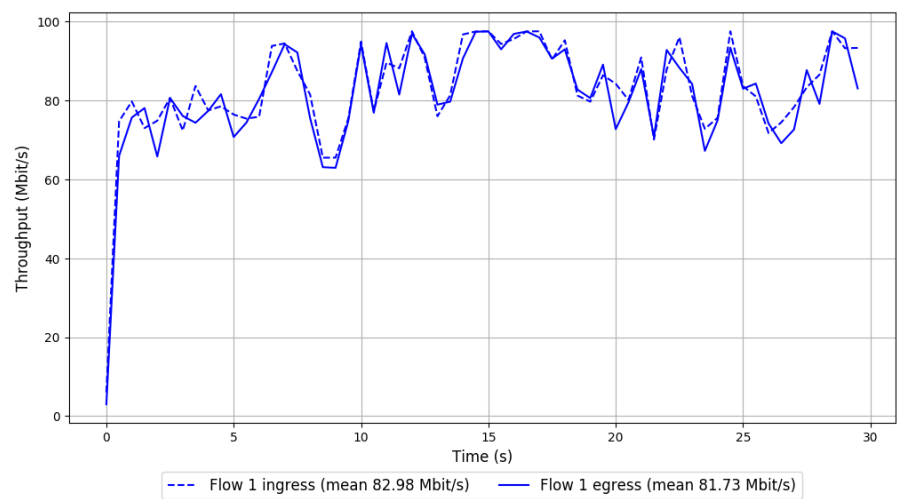
Run 9: Statistics of Verus

Start at: 2018-04-17 05:13:17  
End at: 2018-04-17 05:13:47  
Local clock offset: 11.622 ms  
Remote clock offset: -1.037 ms

# Below is generated by plot.py at 2018-04-17 09:50:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.73 Mbit/s  
95th percentile per-packet one-way delay: 58.345 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 81.73 Mbit/s  
95th percentile per-packet one-way delay: 58.345 ms  
Loss rate: 1.73%



Run 9: Report of Verus — Data Link

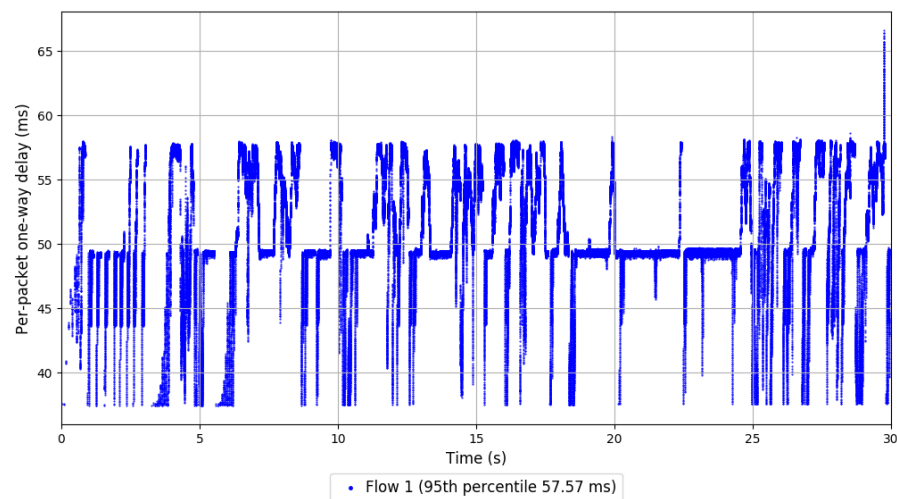
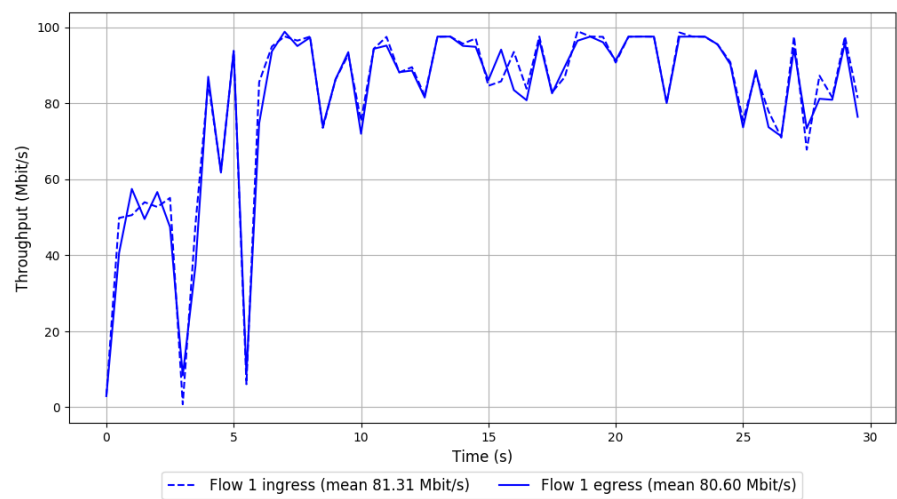


Run 10: Statistics of Verus

Start at: 2018-04-17 05:37:27  
End at: 2018-04-17 05:37:57  
Local clock offset: 0.286 ms  
Remote clock offset: -1.198 ms

# Below is generated by plot.py at 2018-04-17 09:51:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.60 Mbit/s  
95th percentile per-packet one-way delay: 57.568 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 80.60 Mbit/s  
95th percentile per-packet one-way delay: 57.568 ms  
Loss rate: 1.10%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-17 01:49:22

End at: 2018-04-17 01:49:52

Local clock offset: 0.208 ms

Remote clock offset: 4.729 ms

# Below is generated by plot.py at 2018-04-17 09:51:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 56.264 ms

Loss rate: 2.35%

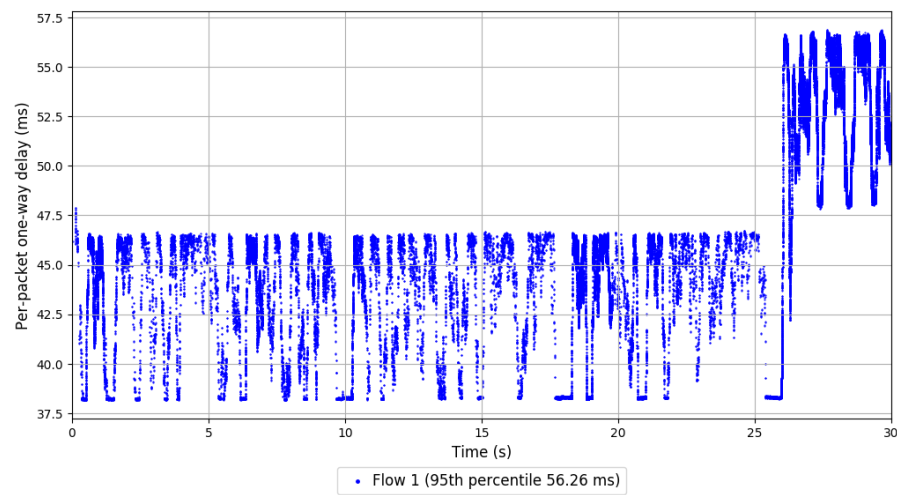
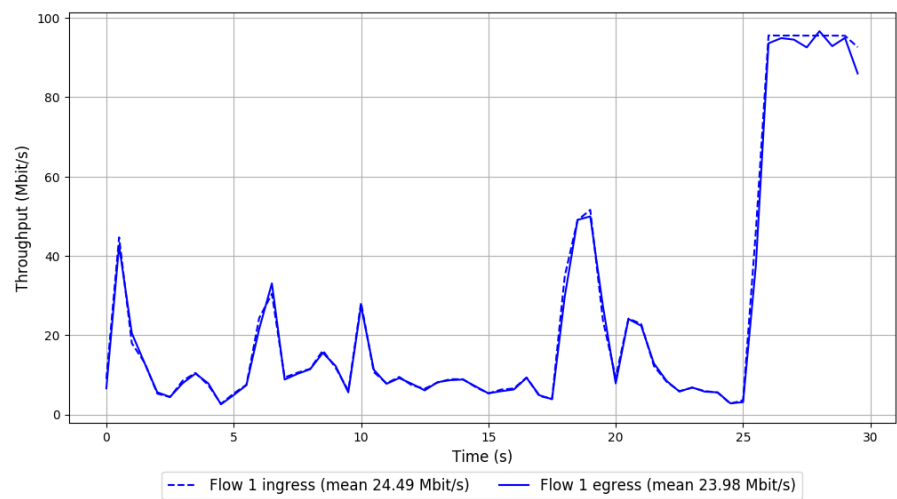
-- Flow 1:

Average throughput: 23.98 Mbit/s

95th percentile per-packet one-way delay: 56.264 ms

Loss rate: 2.35%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-17 02:15:40

End at: 2018-04-17 02:16:10

Local clock offset: -0.182 ms

Remote clock offset: 0.582 ms

# Below is generated by plot.py at 2018-04-17 09:51:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 46.161 ms

Loss rate: 2.17%

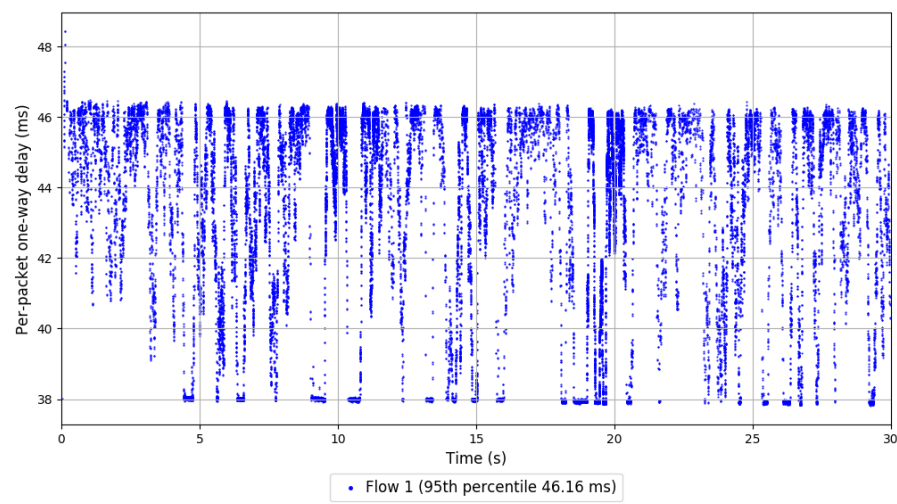
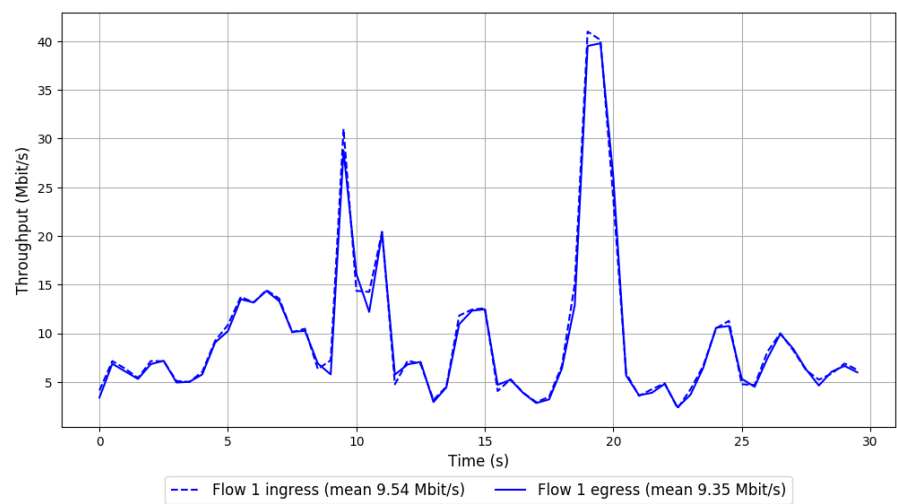
-- Flow 1:

Average throughput: 9.35 Mbit/s

95th percentile per-packet one-way delay: 46.161 ms

Loss rate: 2.17%

Run 2: Report of Copa — Data Link



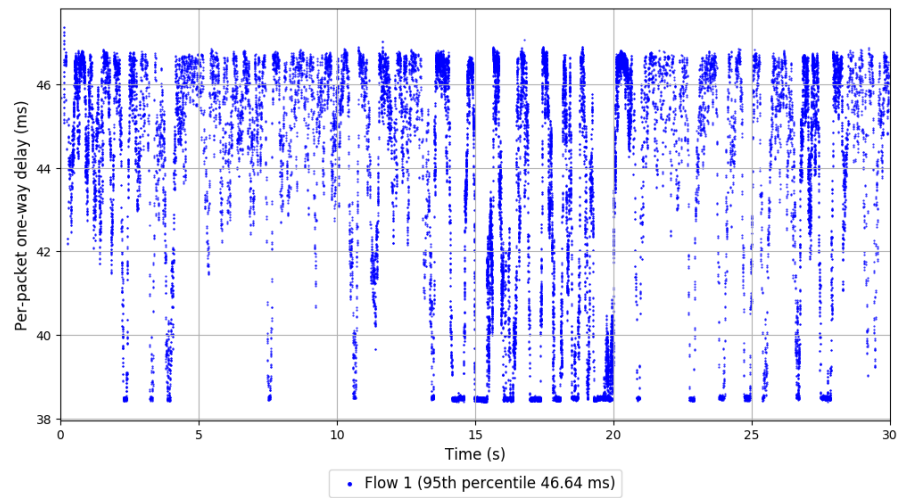
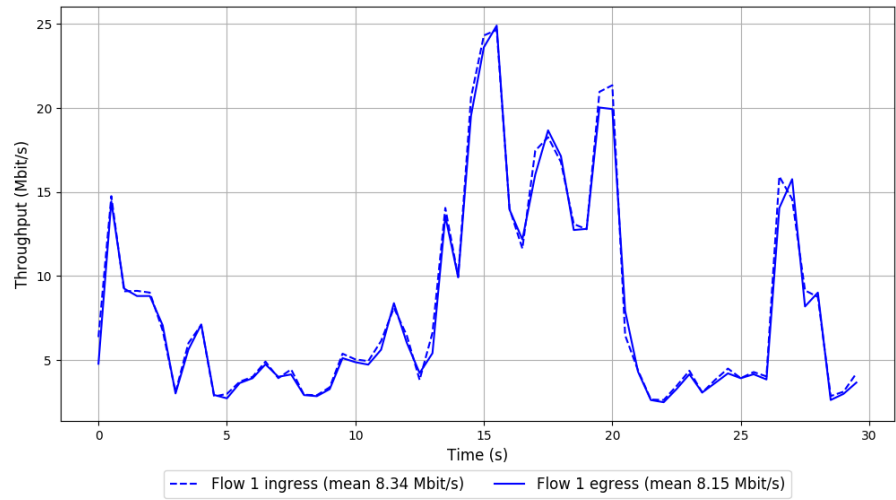
Run 3: Statistics of Copa

Start at: 2018-04-17 02:44:38  
End at: 2018-04-17 02:45:08  
Local clock offset: -0.364 ms  
Remote clock offset: -3.095 ms

# Below is generated by plot.py at 2018-04-17 09:51:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.15 Mbit/s  
95th percentile per-packet one-way delay: 46.640 ms  
Loss rate: 2.51%  
-- Flow 1:  
Average throughput: 8.15 Mbit/s  
95th percentile per-packet one-way delay: 46.640 ms  
Loss rate: 2.51%



### Run 3: Report of Copa — Data Link

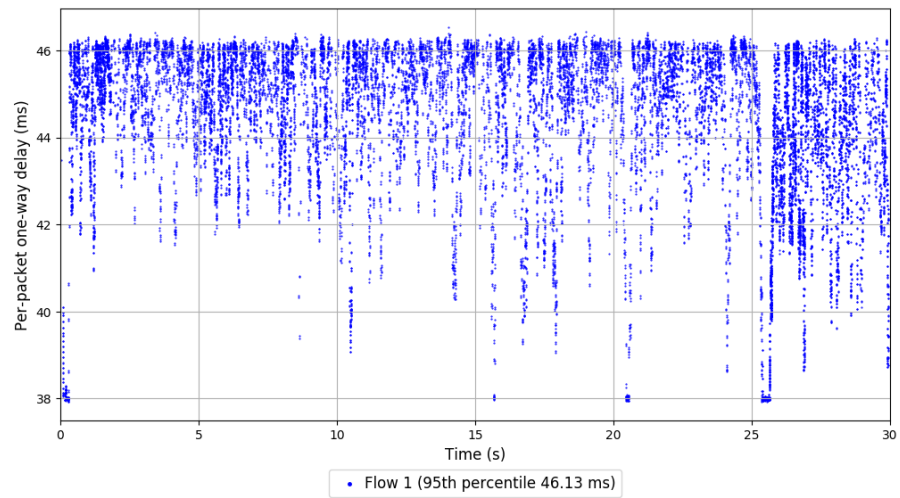
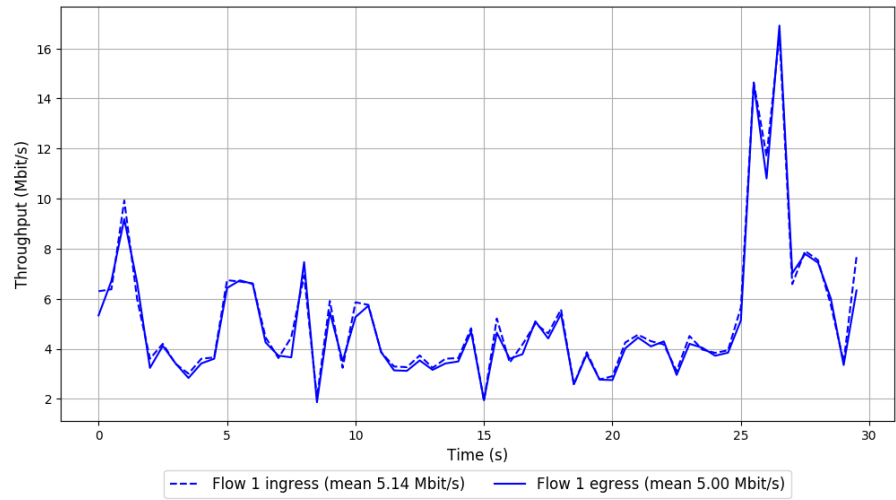


Run 4: Statistics of Copa

Start at: 2018-04-17 03:13:14  
End at: 2018-04-17 03:13:44  
Local clock offset: -0.153 ms  
Remote clock offset: -2.843 ms

# Below is generated by plot.py at 2018-04-17 09:51:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.00 Mbit/s  
95th percentile per-packet one-way delay: 46.126 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 5.00 Mbit/s  
95th percentile per-packet one-way delay: 46.126 ms  
Loss rate: 2.80%

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

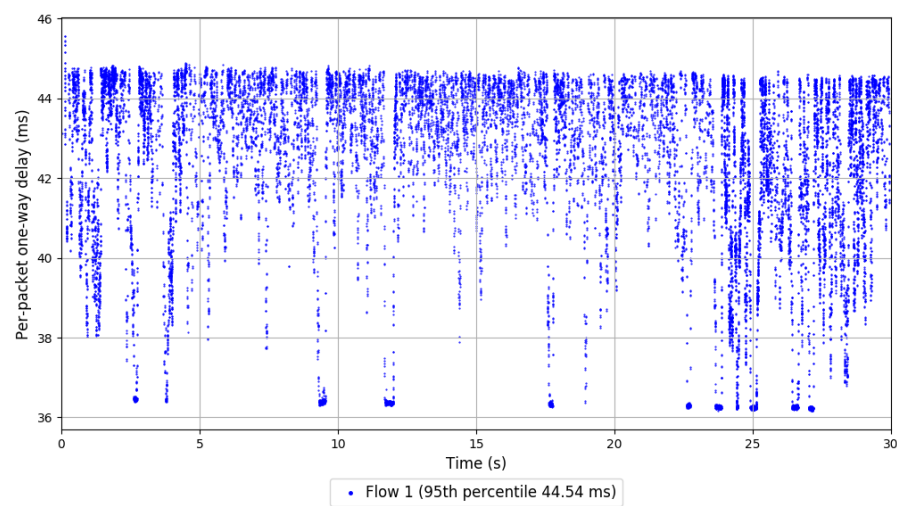
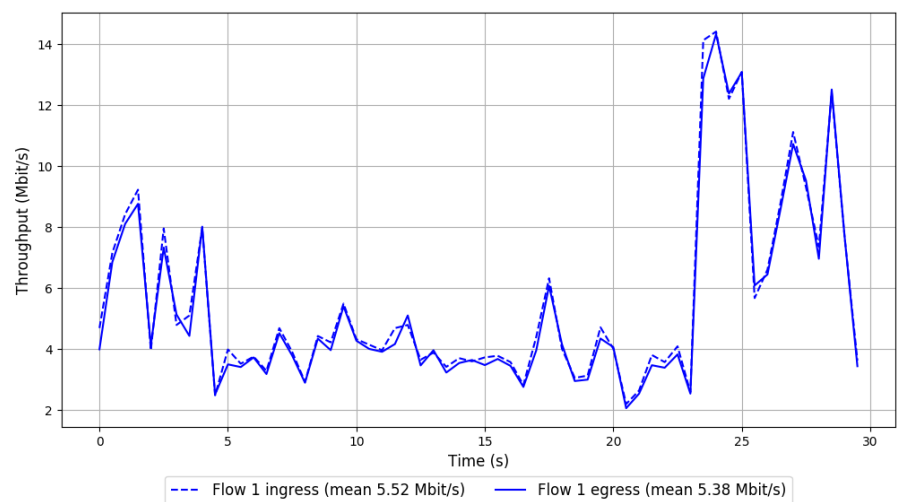


Run 5: Statistics of Copa

Start at: 2018-04-17 03:42:29  
End at: 2018-04-17 03:42:59  
Local clock offset: 0.249 ms  
Remote clock offset: -6.423 ms

# Below is generated by plot.py at 2018-04-17 09:51:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.38 Mbit/s  
95th percentile per-packet one-way delay: 44.543 ms  
Loss rate: 2.82%  
-- Flow 1:  
Average throughput: 5.38 Mbit/s  
95th percentile per-packet one-way delay: 44.543 ms  
Loss rate: 2.82%

Run 5: Report of Copa — Data Link

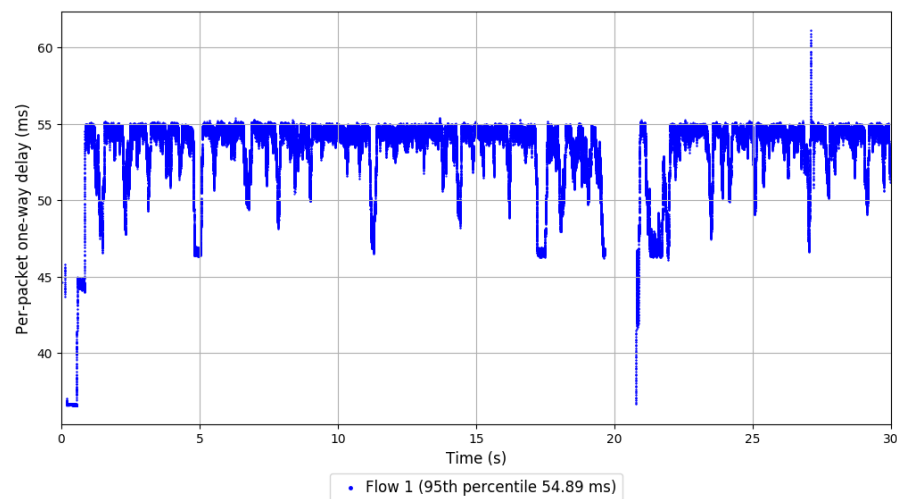
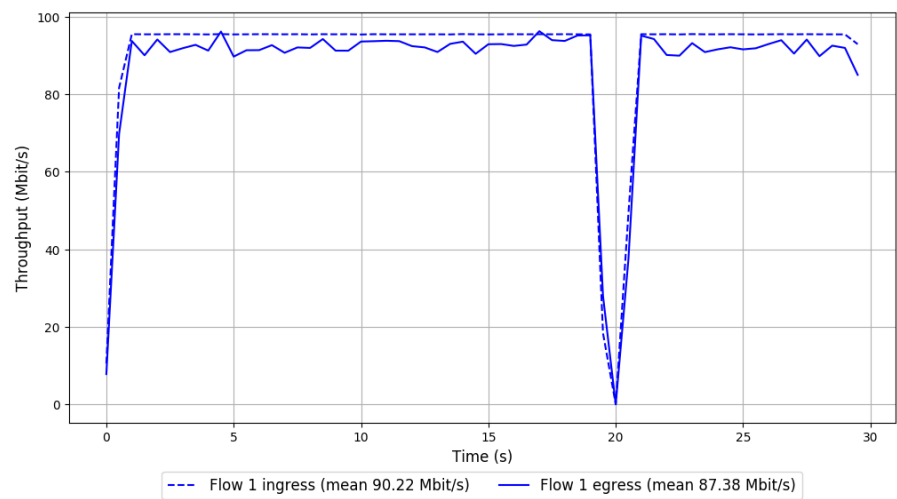


Run 6: Statistics of Copa

Start at: 2018-04-17 04:10:10  
End at: 2018-04-17 04:10:40  
Local clock offset: 5.082 ms  
Remote clock offset: -1.708 ms

# Below is generated by plot.py at 2018-04-17 09:52:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.38 Mbit/s  
95th percentile per-packet one-way delay: 54.888 ms  
Loss rate: 3.40%  
-- Flow 1:  
Average throughput: 87.38 Mbit/s  
95th percentile per-packet one-way delay: 54.888 ms  
Loss rate: 3.40%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-17 04:35:31

End at: 2018-04-17 04:36:01

Local clock offset: 8.384 ms

Remote clock offset: -6.24 ms

# Below is generated by plot.py at 2018-04-17 09:52:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.08 Mbit/s

95th percentile per-packet one-way delay: 54.990 ms

Loss rate: 1.59%

-- Flow 1:

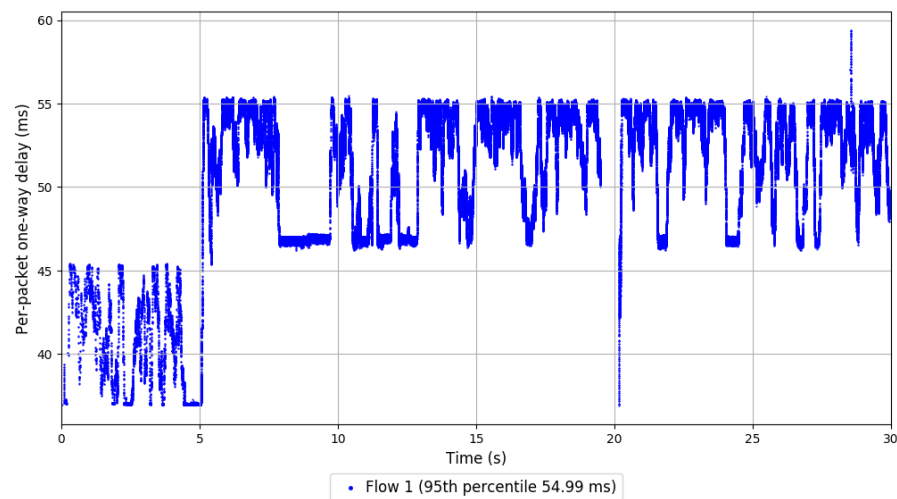
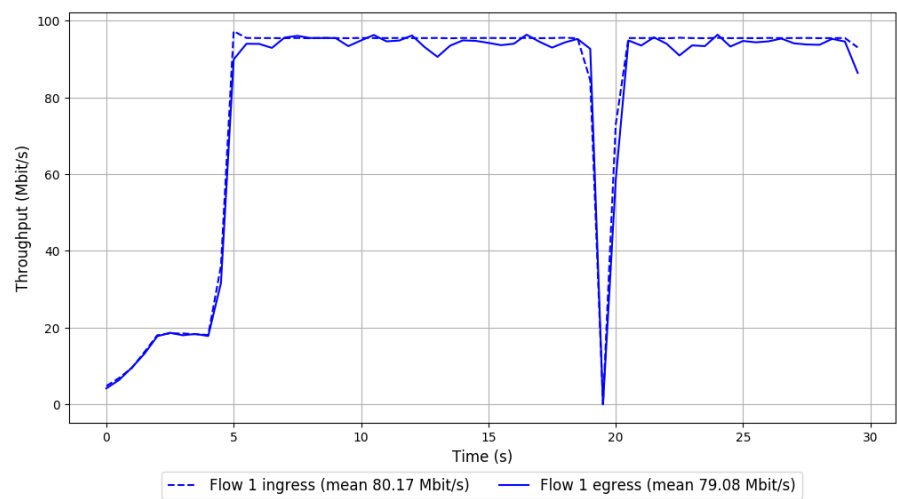
Average throughput: 79.08 Mbit/s

95th percentile per-packet one-way delay: 54.990 ms

Loss rate: 1.59%



Run 7: Report of Copa — Data Link

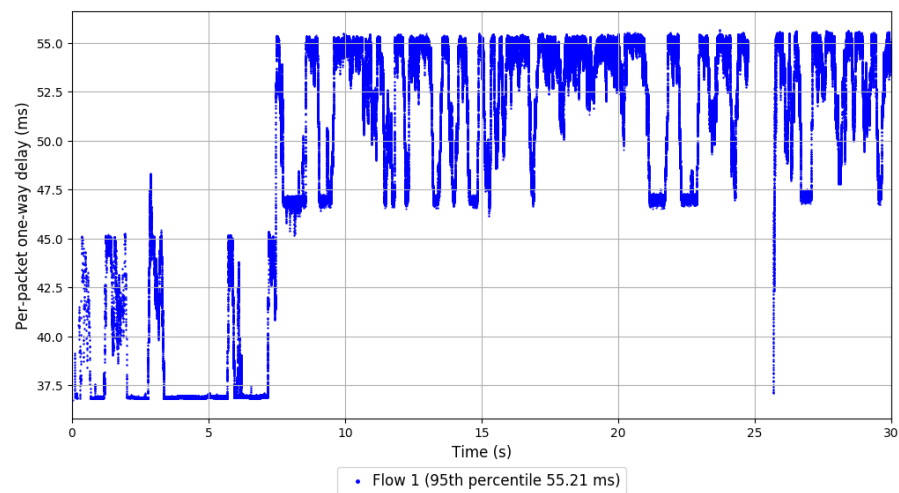
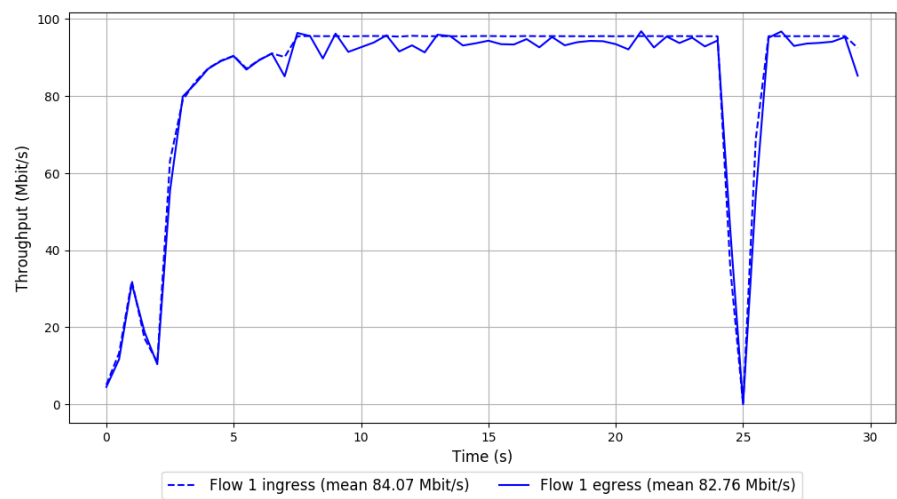


Run 8: Statistics of Copa

Start at: 2018-04-17 04:59:59  
End at: 2018-04-17 05:00:29  
Local clock offset: 10.539 ms  
Remote clock offset: -5.489 ms

# Below is generated by plot.py at 2018-04-17 09:52:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.76 Mbit/s  
95th percentile per-packet one-way delay: 55.209 ms  
Loss rate: 1.79%  
-- Flow 1:  
Average throughput: 82.76 Mbit/s  
95th percentile per-packet one-way delay: 55.209 ms  
Loss rate: 1.79%

Run 8: Report of Copa — Data Link

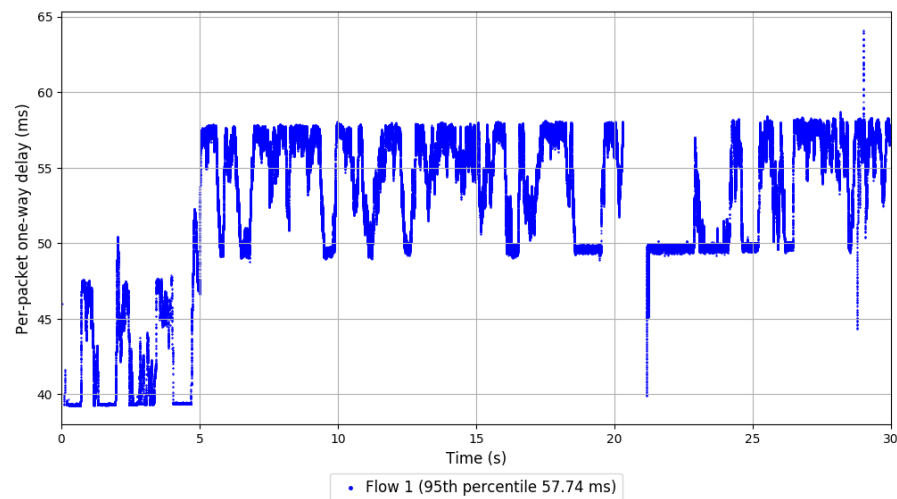
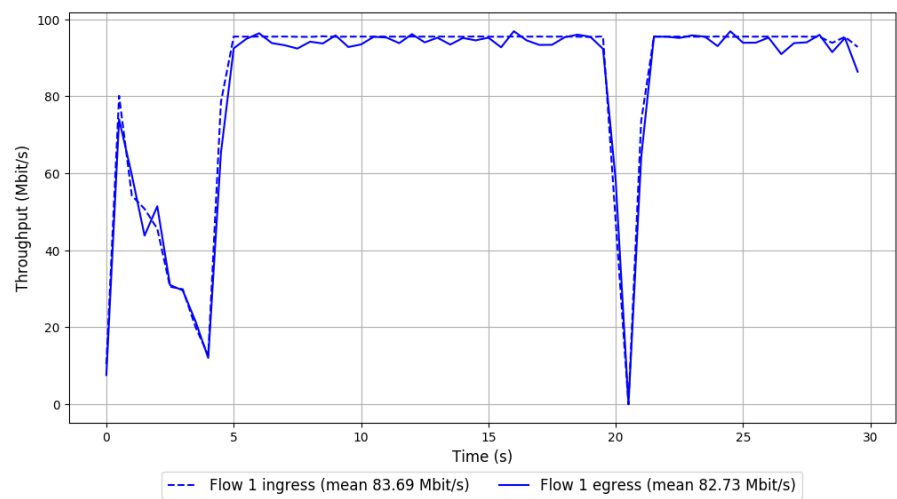


Run 9: Statistics of Copa

Start at: 2018-04-17 05:26:11  
End at: 2018-04-17 05:26:41  
Local clock offset: 9.726 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-04-17 09:53:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.73 Mbit/s  
95th percentile per-packet one-way delay: 57.742 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 82.73 Mbit/s  
95th percentile per-packet one-way delay: 57.742 ms  
Loss rate: 1.40%

Run 9: Report of Copa — Data Link

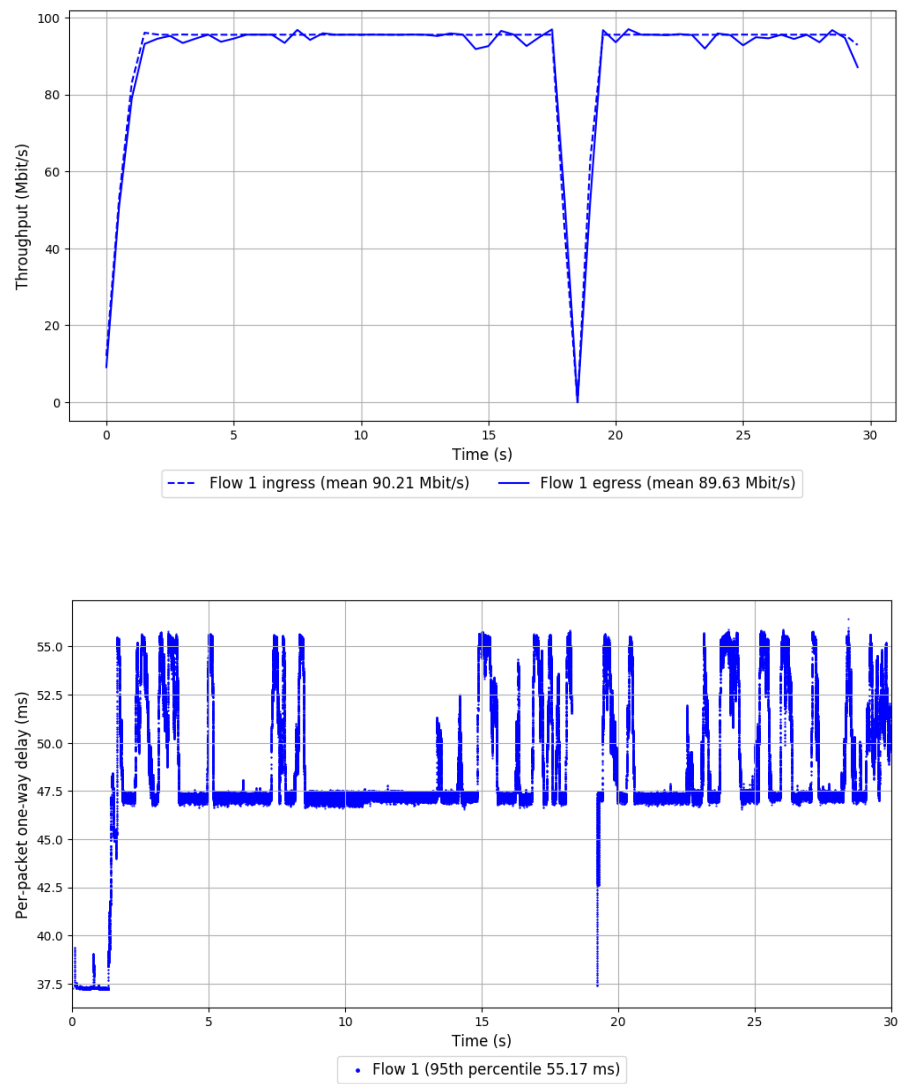


Run 10: Statistics of Copa

Start at: 2018-04-17 05:49:24  
End at: 2018-04-17 05:49:54  
Local clock offset: -3.769 ms  
Remote clock offset: -1.974 ms

# Below is generated by plot.py at 2018-04-17 09:53:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.63 Mbit/s  
95th percentile per-packet one-way delay: 55.174 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 89.63 Mbit/s  
95th percentile per-packet one-way delay: 55.174 ms  
Loss rate: 0.88%

Run 10: Report of Copa — Data Link



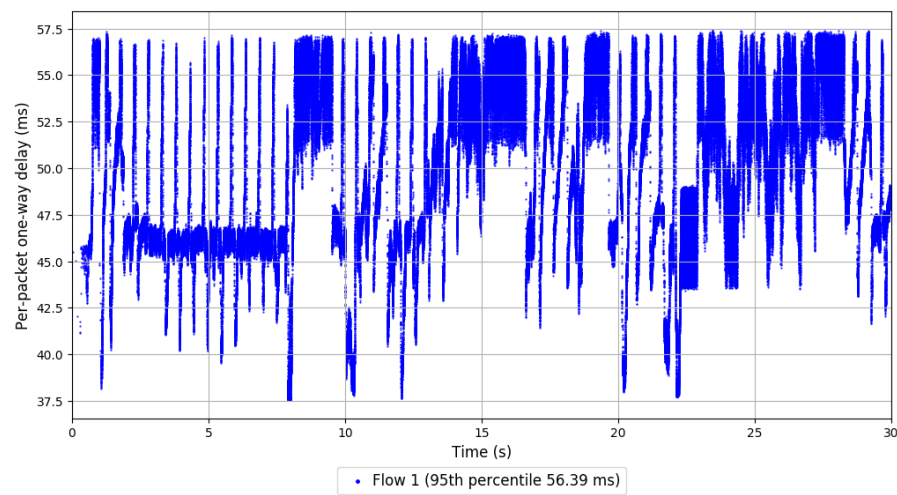
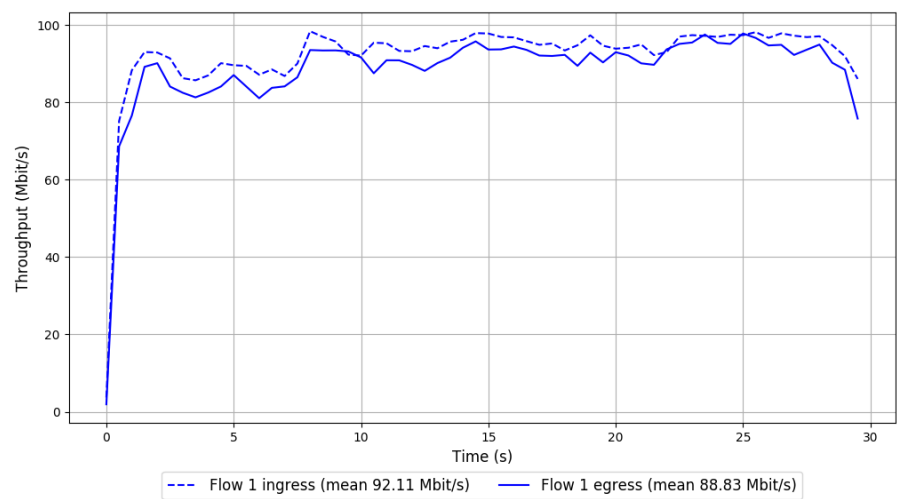
```
Run 1: Statistics of FillP

Start at: 2018-04-17 01:25:24
End at: 2018-04-17 01:25:54
Local clock offset: 6.733 ms
Remote clock offset: 0.623 ms

# Below is generated by plot.py at 2018-04-17 09:53:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.83 Mbit/s
95th percentile per-packet one-way delay: 56.392 ms
Loss rate: 3.80%
-- Flow 1:
Average throughput: 88.83 Mbit/s
95th percentile per-packet one-way delay: 56.392 ms
Loss rate: 3.80%
```



Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-17 01:52:26

End at: 2018-04-17 01:52:56

Local clock offset: 0.029 ms

Remote clock offset: 4.793 ms

# Below is generated by plot.py at 2018-04-17 09:53:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.24 Mbit/s

95th percentile per-packet one-way delay: 57.465 ms

Loss rate: 2.99%

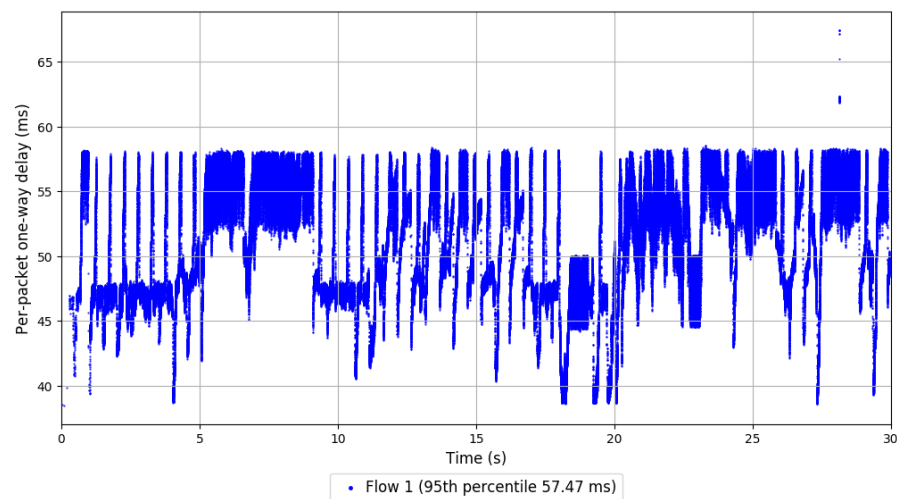
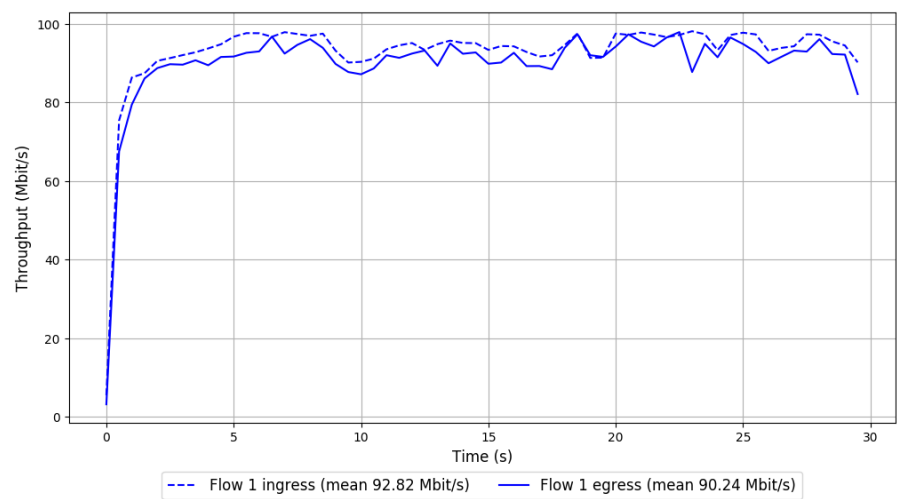
-- Flow 1:

Average throughput: 90.24 Mbit/s

95th percentile per-packet one-way delay: 57.465 ms

Loss rate: 2.99%

Run 2: Report of FillP — Data Link

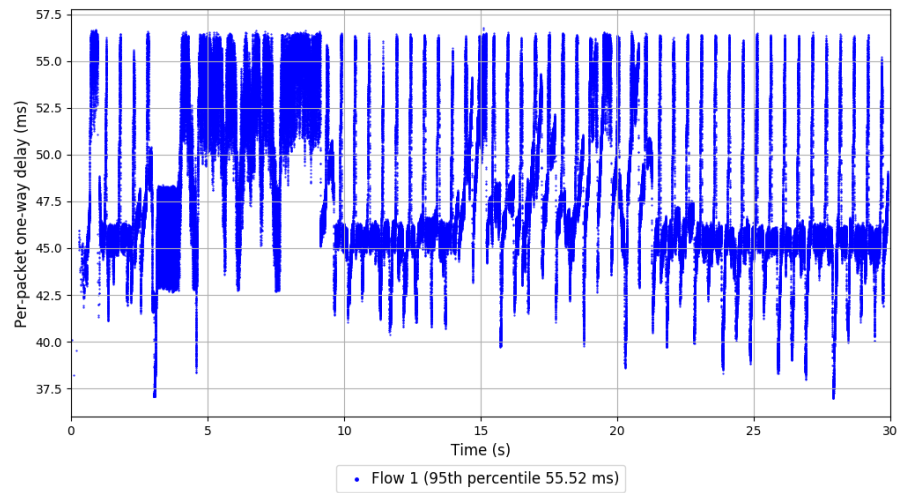
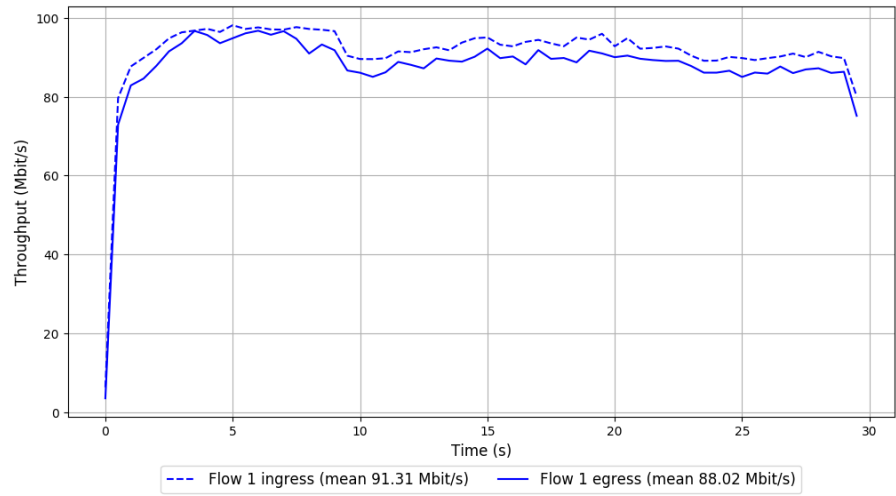


Run 3: Statistics of FillP

Start at: 2018-04-17 02:18:28  
End at: 2018-04-17 02:18:58  
Local clock offset: -0.312 ms  
Remote clock offset: -0.758 ms

# Below is generated by plot.py at 2018-04-17 09:53:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.02 Mbit/s  
95th percentile per-packet one-way delay: 55.517 ms  
Loss rate: 3.82%  
-- Flow 1:  
Average throughput: 88.02 Mbit/s  
95th percentile per-packet one-way delay: 55.517 ms  
Loss rate: 3.82%

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

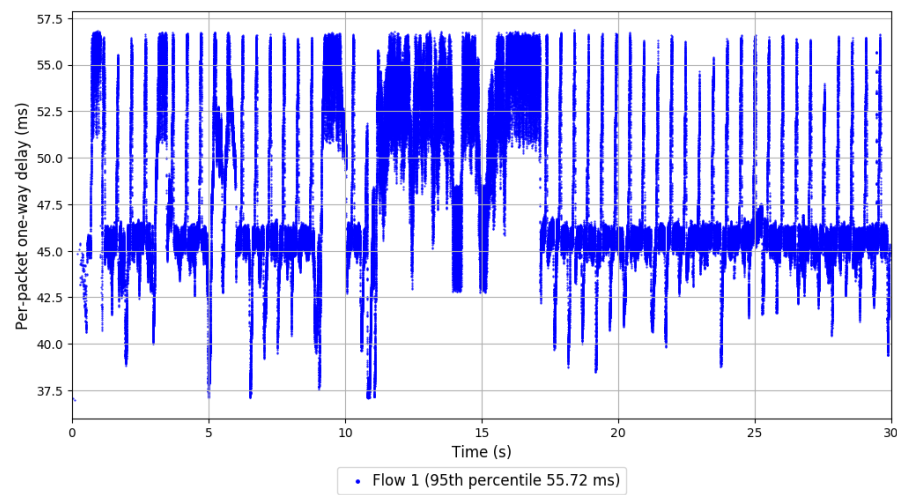
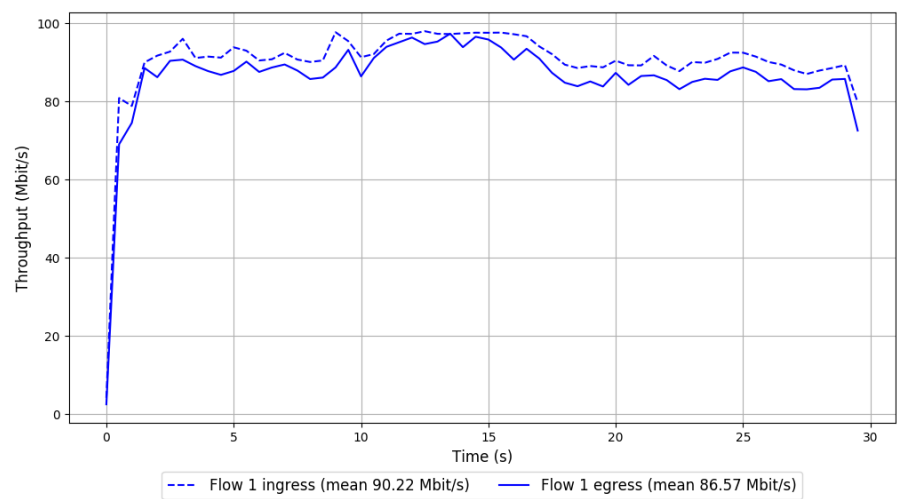


Run 4: Statistics of FillP

Start at: 2018-04-17 02:47:38  
End at: 2018-04-17 02:48:08  
Local clock offset: -0.296 ms  
Remote clock offset: -3.085 ms

# Below is generated by plot.py at 2018-04-17 09:53:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.57 Mbit/s  
95th percentile per-packet one-way delay: 55.719 ms  
Loss rate: 4.26%  
-- Flow 1:  
Average throughput: 86.57 Mbit/s  
95th percentile per-packet one-way delay: 55.719 ms  
Loss rate: 4.26%

Run 4: Report of FillP — Data Link



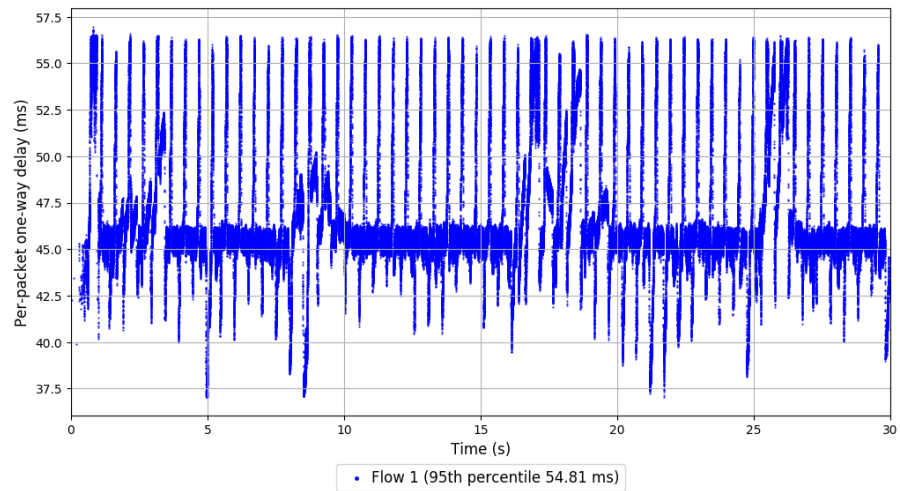
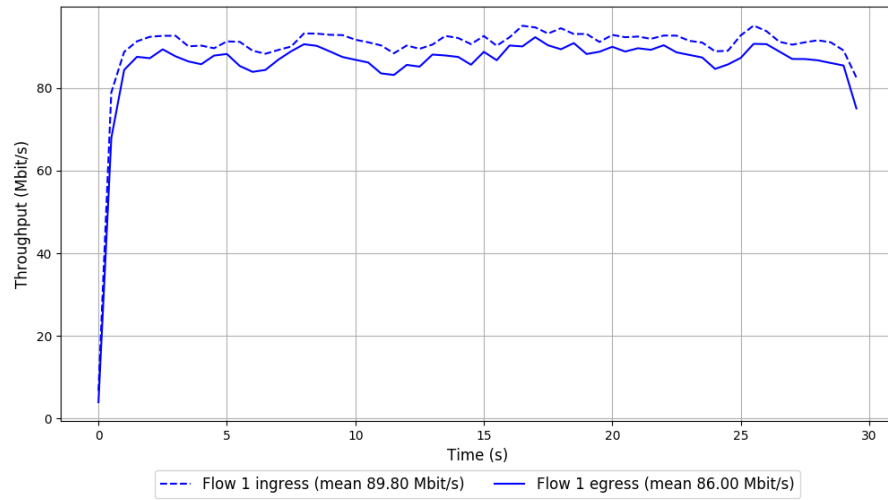
Run 5: Statistics of FillP

Start at: 2018-04-17 03:16:09  
End at: 2018-04-17 03:16:39  
Local clock offset: -0.12 ms  
Remote clock offset: -3.844 ms

# Below is generated by plot.py at 2018-04-17 09:53:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.00 Mbit/s  
95th percentile per-packet one-way delay: 54.806 ms  
Loss rate: 4.46%  
-- Flow 1:  
Average throughput: 86.00 Mbit/s  
95th percentile per-packet one-way delay: 54.806 ms  
Loss rate: 4.46%



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

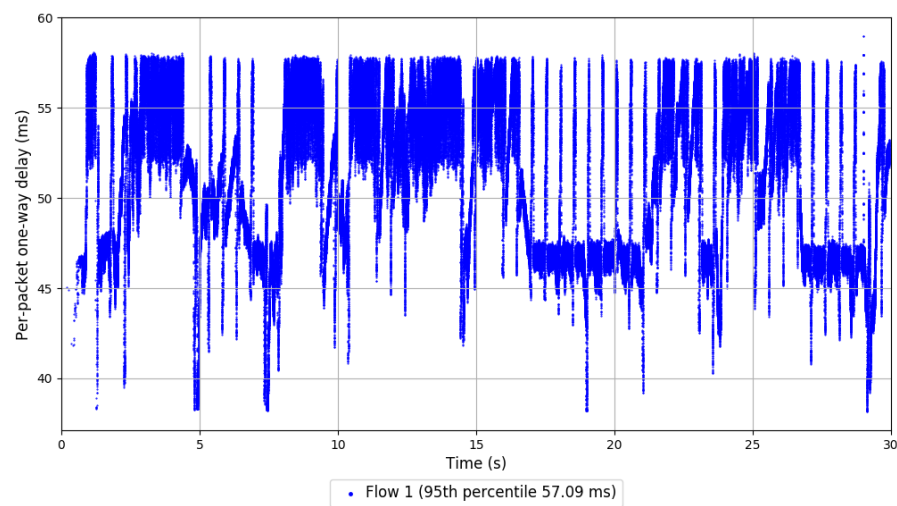
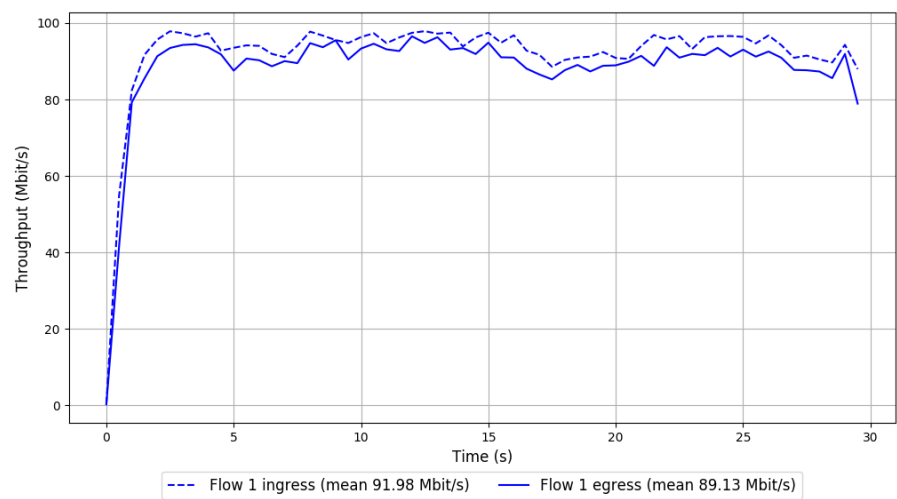


Run 6: Statistics of FillP

Start at: 2018-04-17 03:45:19  
End at: 2018-04-17 03:45:49  
Local clock offset: 1.439 ms  
Remote clock offset: -7.071 ms

# Below is generated by plot.py at 2018-04-17 09:53:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.13 Mbit/s  
95th percentile per-packet one-way delay: 57.086 ms  
Loss rate: 3.83%  
-- Flow 1:  
Average throughput: 89.13 Mbit/s  
95th percentile per-packet one-way delay: 57.086 ms  
Loss rate: 3.83%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-17 04:13:55

End at: 2018-04-17 04:14:25

Local clock offset: 5.223 ms

Remote clock offset: -1.48 ms

# Below is generated by plot.py at 2018-04-17 09:54:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 55.687 ms

Loss rate: 2.74%

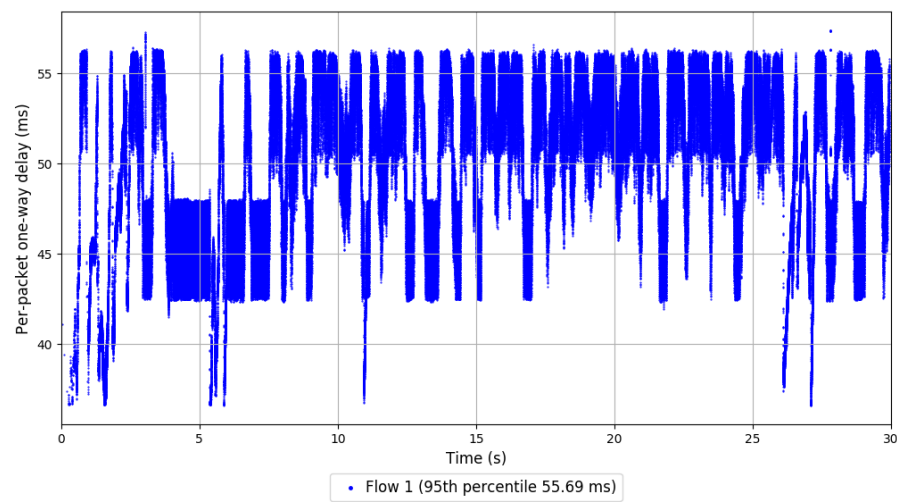
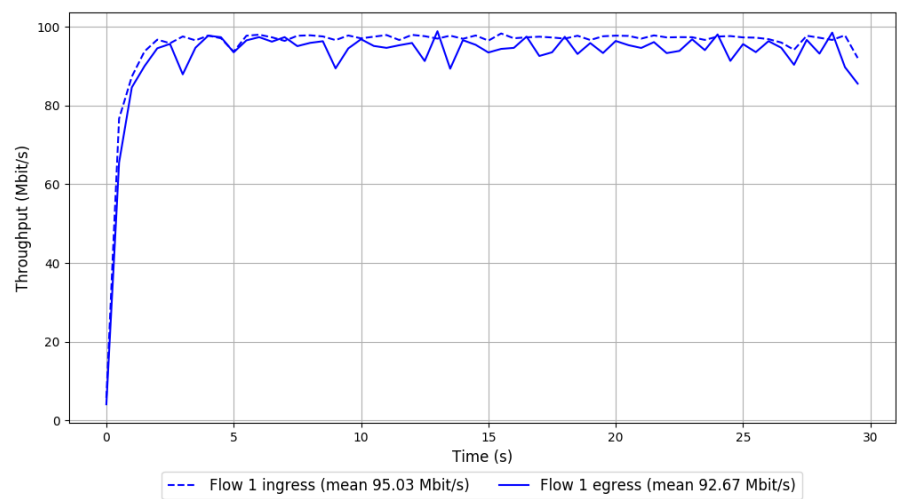
-- Flow 1:

Average throughput: 92.67 Mbit/s

95th percentile per-packet one-way delay: 55.687 ms

Loss rate: 2.74%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-17 04:38:51

End at: 2018-04-17 04:39:21

Local clock offset: 8.747 ms

Remote clock offset: -6.78 ms

# Below is generated by plot.py at 2018-04-17 09:54:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 57.353 ms

Loss rate: 2.42%

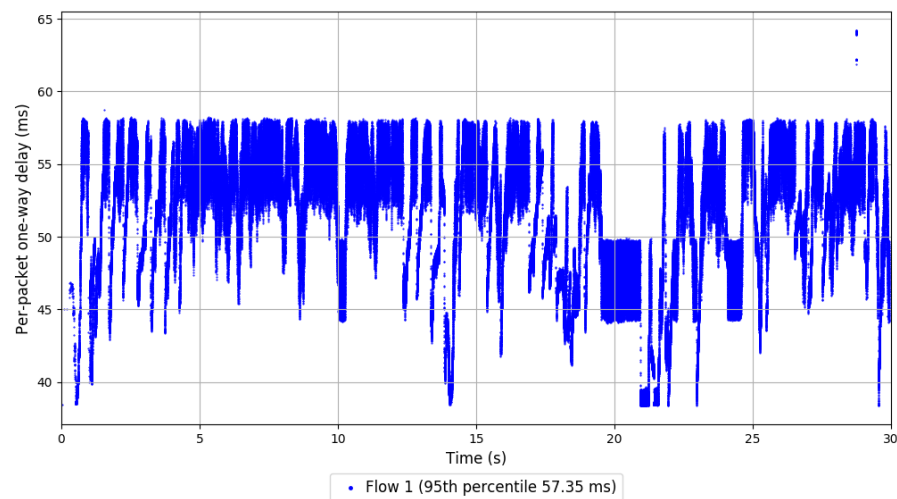
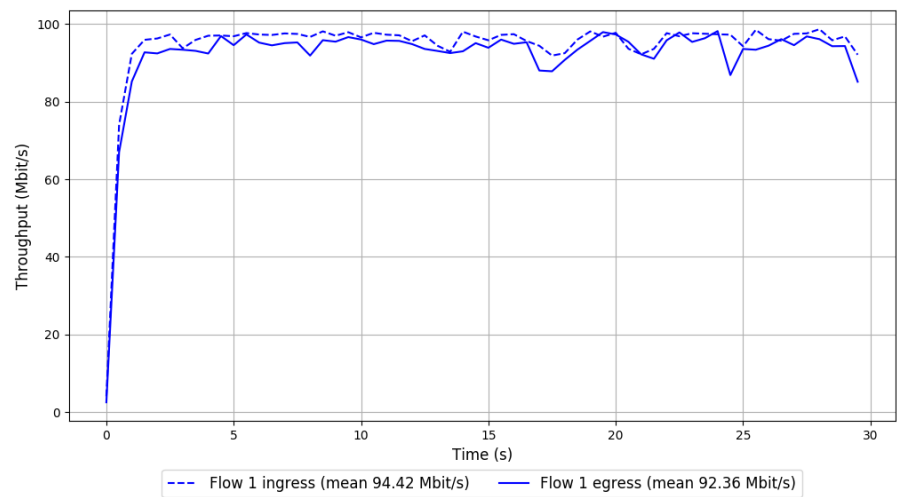
-- Flow 1:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 57.353 ms

Loss rate: 2.42%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-17 05:03:20

End at: 2018-04-17 05:03:50

Local clock offset: 10.819 ms

Remote clock offset: -3.81 ms

# Below is generated by plot.py at 2018-04-17 09:54:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 57.116 ms

Loss rate: 2.57%

-- Flow 1:

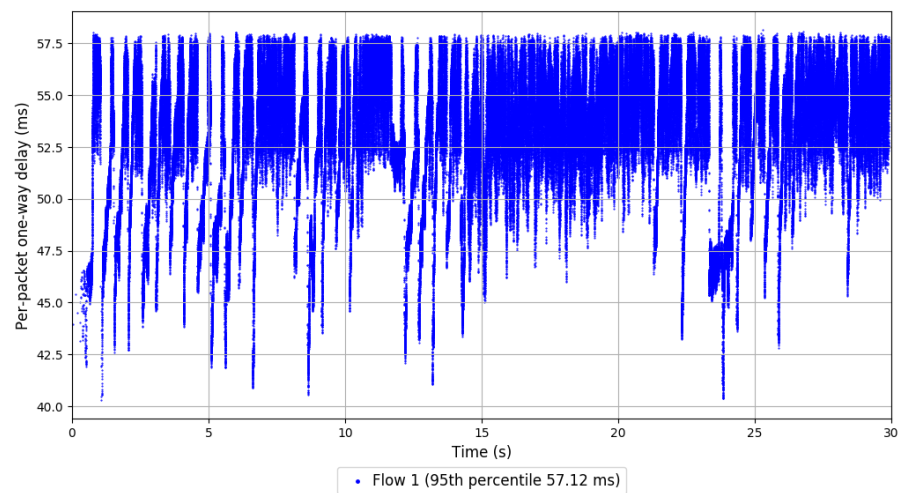
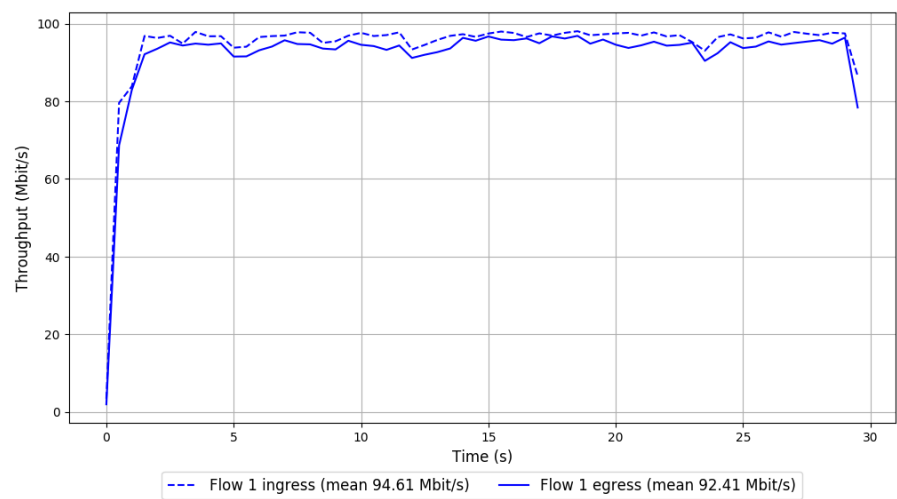
Average throughput: 92.41 Mbit/s

95th percentile per-packet one-way delay: 57.116 ms

Loss rate: 2.57%



Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 05:29:24

End at: 2018-04-17 05:29:54

Local clock offset: 5.91 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-04-17 09:54:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 56.031 ms

Loss rate: 1.01%

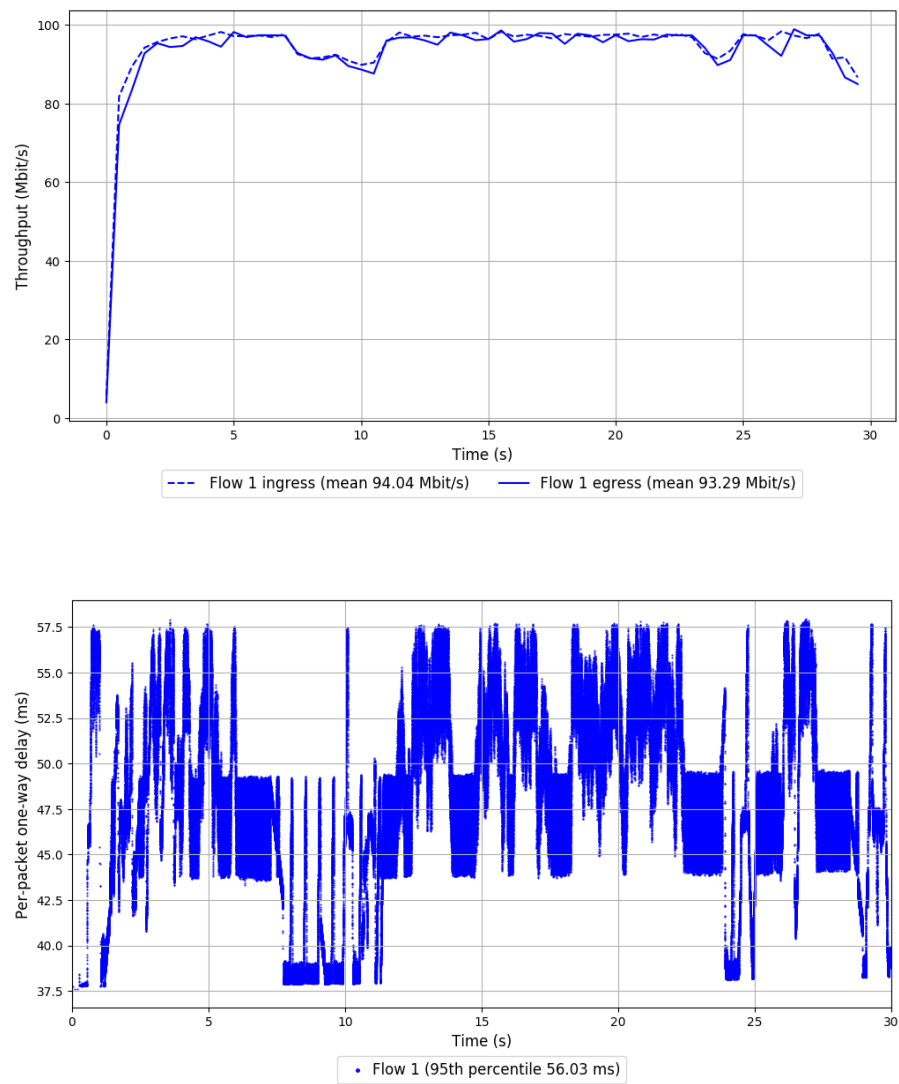
-- Flow 1:

Average throughput: 93.29 Mbit/s

95th percentile per-packet one-way delay: 56.031 ms

Loss rate: 1.01%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 01:41:40

End at: 2018-04-17 01:42:10

Local clock offset: 1.05 ms

Remote clock offset: 3.184 ms

# Below is generated by plot.py at 2018-04-17 09:54:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 46.768 ms

Loss rate: 3.36%

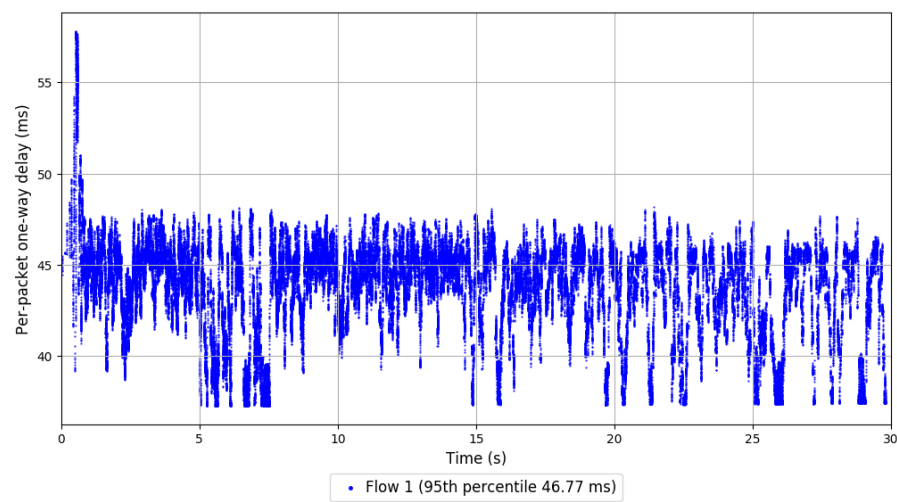
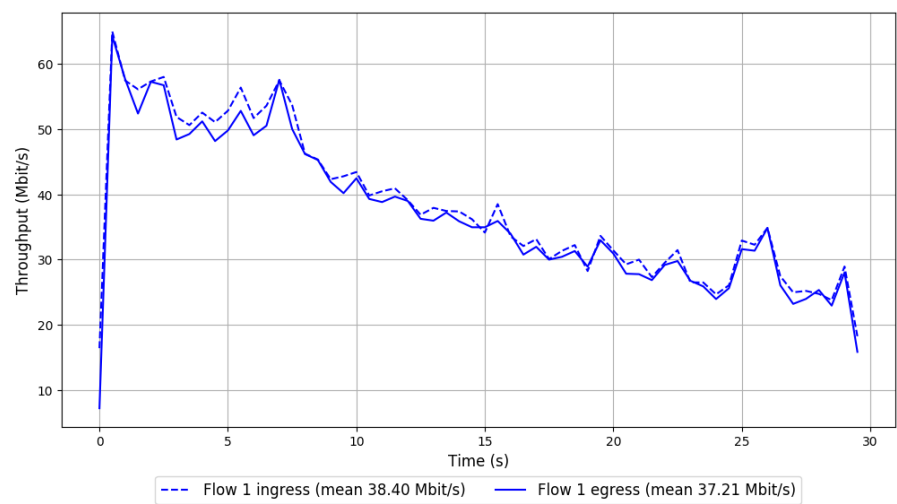
-- Flow 1:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 46.768 ms

Loss rate: 3.36%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 02:07:46

End at: 2018-04-17 02:08:16

Local clock offset: -0.213 ms

Remote clock offset: 5.424 ms

# Below is generated by plot.py at 2018-04-17 09:54:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 46.339 ms

Loss rate: 2.70%

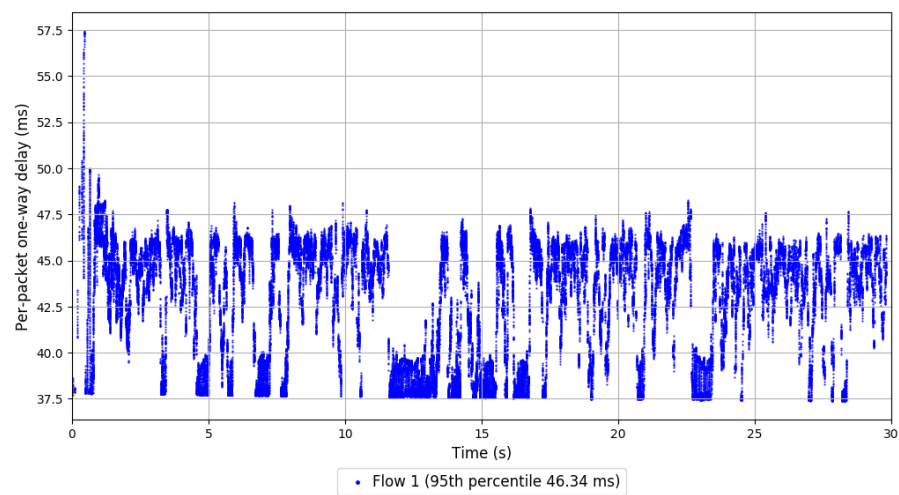
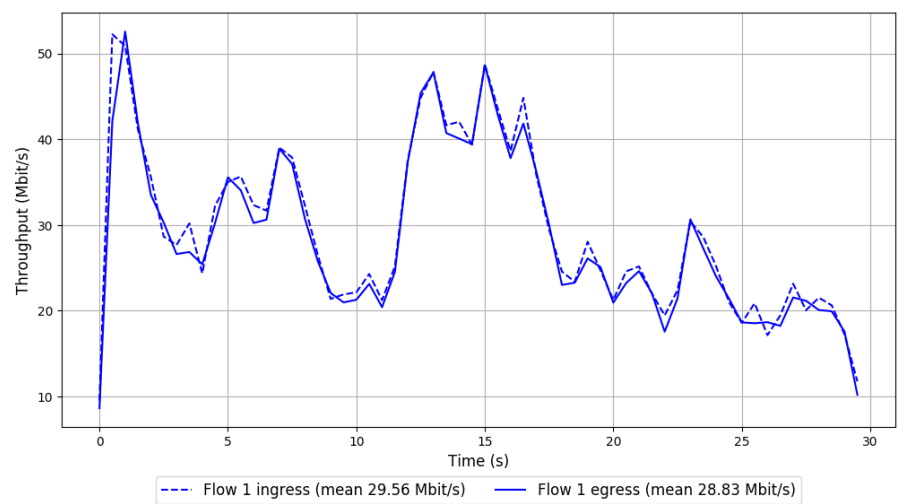
-- Flow 1:

Average throughput: 28.83 Mbit/s

95th percentile per-packet one-way delay: 46.339 ms

Loss rate: 2.70%

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



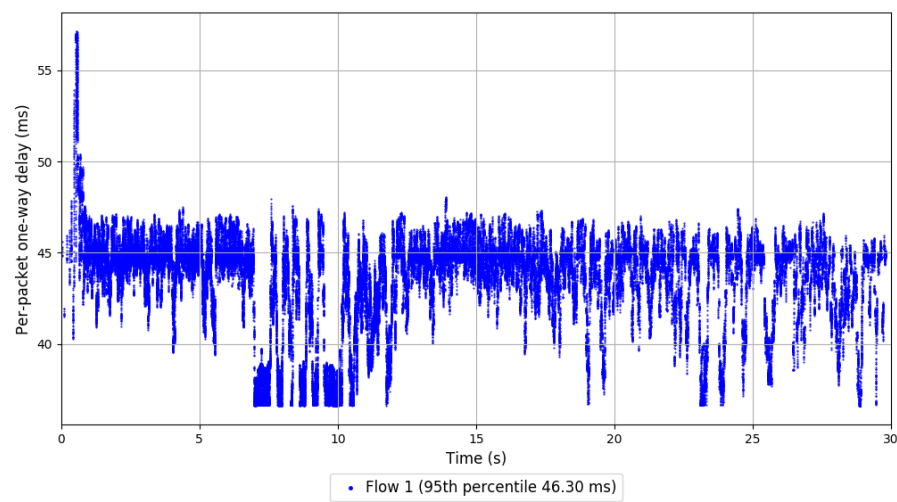
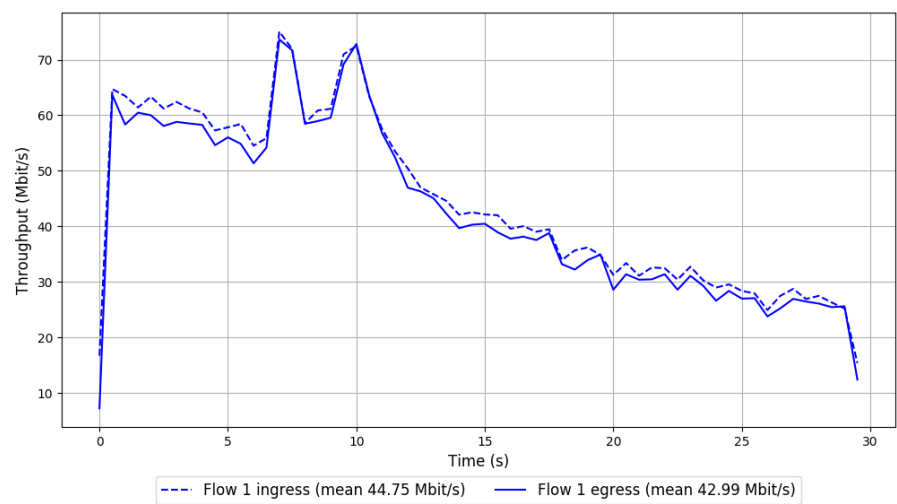
Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 02:35:23  
End at: 2018-04-17 02:35:53  
Local clock offset: -0.401 ms  
Remote clock offset: -2.544 ms

# Below is generated by plot.py at 2018-04-17 09:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 42.99 Mbit/s  
95th percentile per-packet one-way delay: 46.300 ms  
Loss rate: 4.16%  
-- Flow 1:  
Average throughput: 42.99 Mbit/s  
95th percentile per-packet one-way delay: 46.300 ms  
Loss rate: 4.16%



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

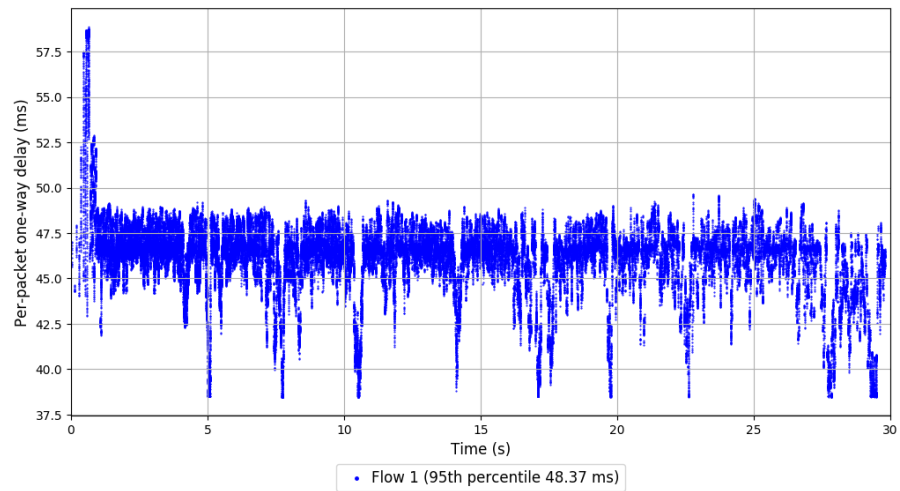
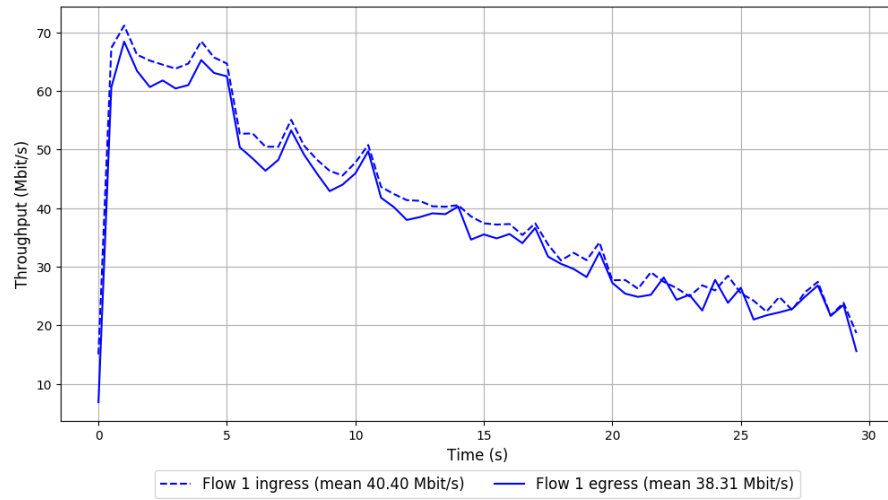


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 03:03:46  
End at: 2018-04-17 03:04:16  
Local clock offset: -0.409 ms  
Remote clock offset: -3.202 ms

# Below is generated by plot.py at 2018-04-17 09:54:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 38.31 Mbit/s  
95th percentile per-packet one-way delay: 48.365 ms  
Loss rate: 5.41%  
-- Flow 1:  
Average throughput: 38.31 Mbit/s  
95th percentile per-packet one-way delay: 48.365 ms  
Loss rate: 5.41%

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

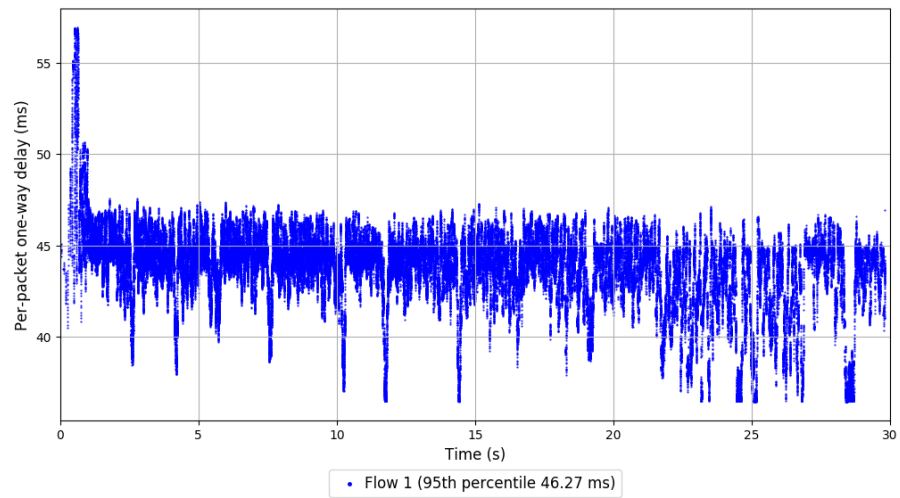
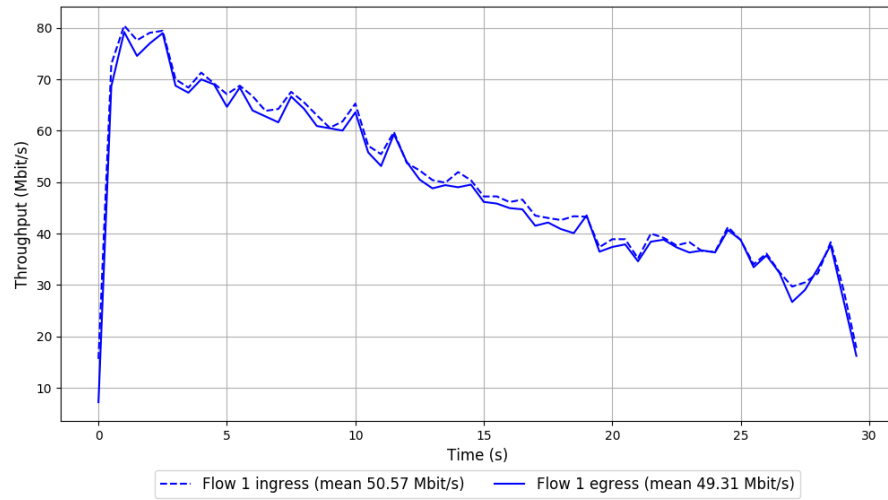


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 03:33:19  
End at: 2018-04-17 03:33:49  
Local clock offset: -0.009 ms  
Remote clock offset: -5.694 ms

# Below is generated by plot.py at 2018-04-17 09:54:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 49.31 Mbit/s  
95th percentile per-packet one-way delay: 46.268 ms  
Loss rate: 2.74%  
-- Flow 1:  
Average throughput: 49.31 Mbit/s  
95th percentile per-packet one-way delay: 46.268 ms  
Loss rate: 2.74%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 04:01:21

End at: 2018-04-17 04:01:51

Local clock offset: 4.306 ms

Remote clock offset: -2.66 ms

# Below is generated by plot.py at 2018-04-17 09:54:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 37.24 Mbit/s

95th percentile per-packet one-way delay: 46.344 ms

Loss rate: 4.32%

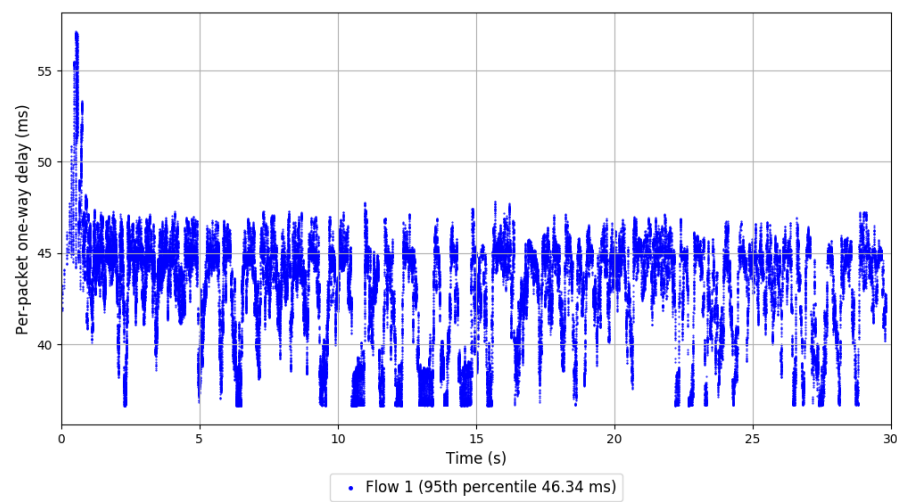
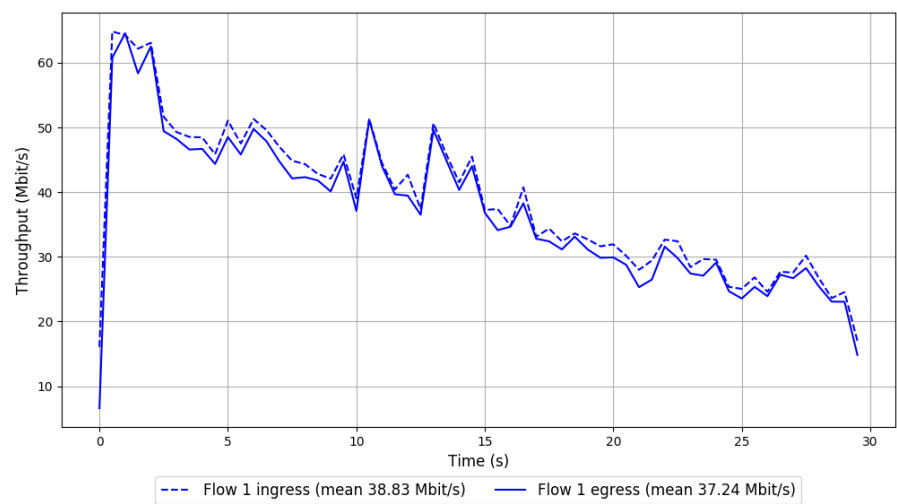
-- Flow 1:

Average throughput: 37.24 Mbit/s

95th percentile per-packet one-way delay: 46.344 ms

Loss rate: 4.32%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 04:27:58

End at: 2018-04-17 04:28:28

Local clock offset: 7.554 ms

Remote clock offset: -3.723 ms

# Below is generated by plot.py at 2018-04-17 09:55:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 45.002 ms

Loss rate: 1.22%

-- Flow 1:

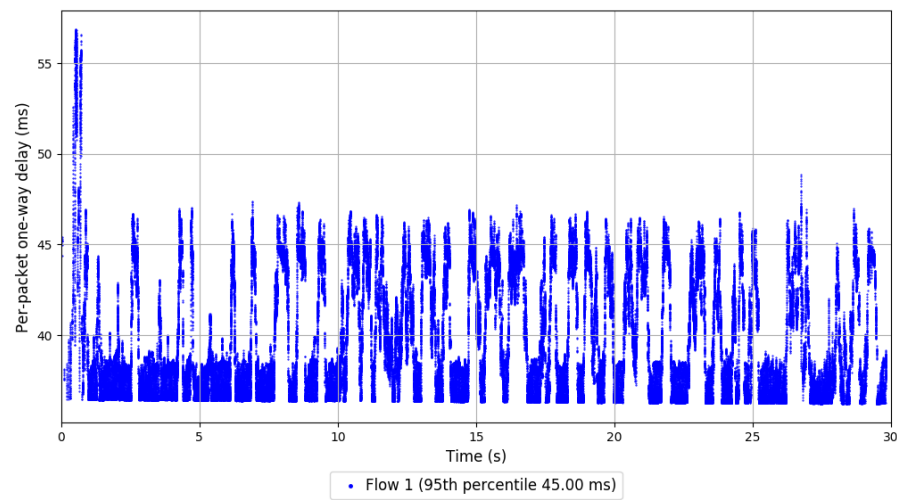
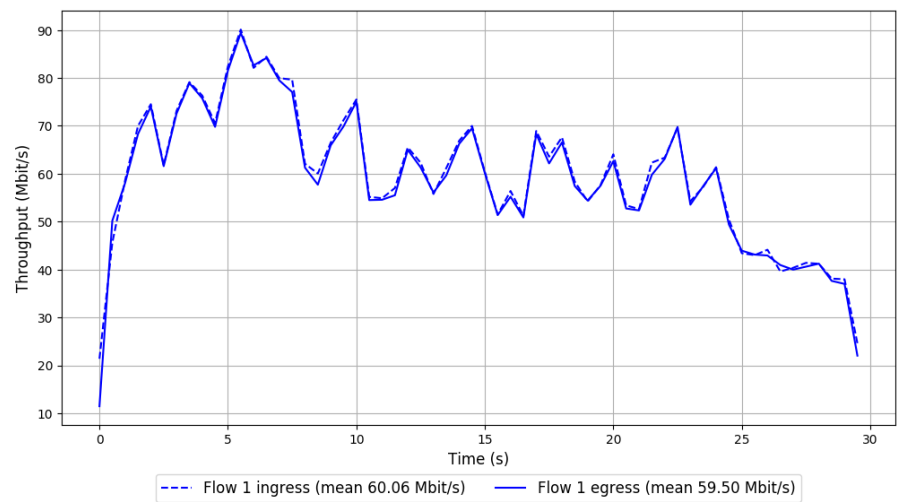
Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 45.002 ms

Loss rate: 1.22%



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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 04:52:32

End at: 2018-04-17 04:53:02

Local clock offset: 9.853 ms

Remote clock offset: -8.114 ms

# Below is generated by plot.py at 2018-04-17 09:55:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 46.202 ms

Loss rate: 1.97%

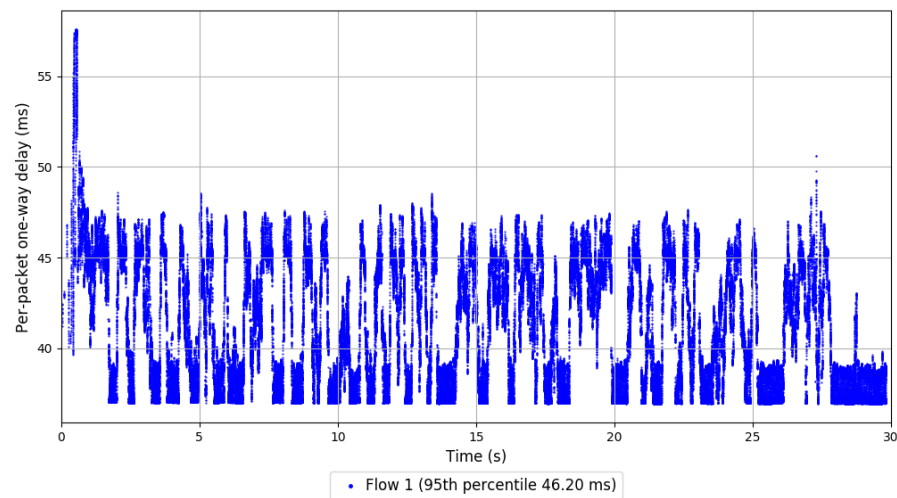
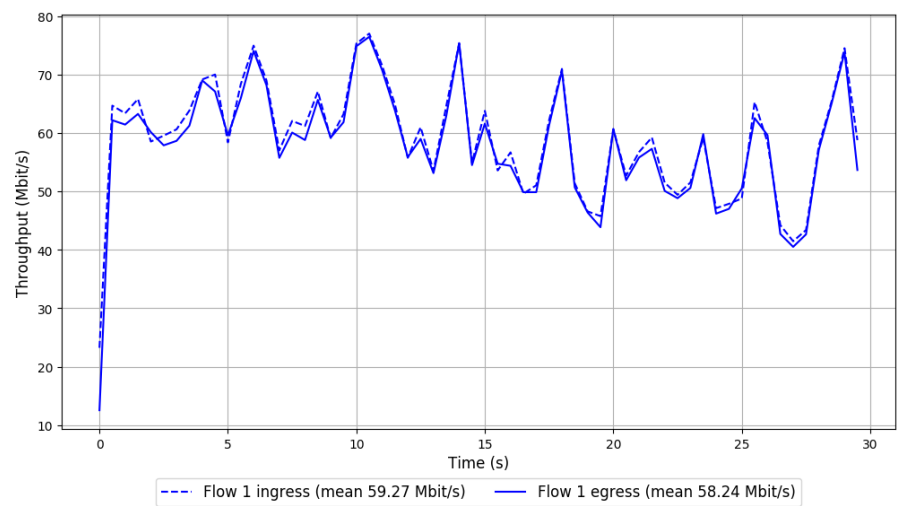
-- Flow 1:

Average throughput: 58.24 Mbit/s

95th percentile per-packet one-way delay: 46.202 ms

Loss rate: 1.97%

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

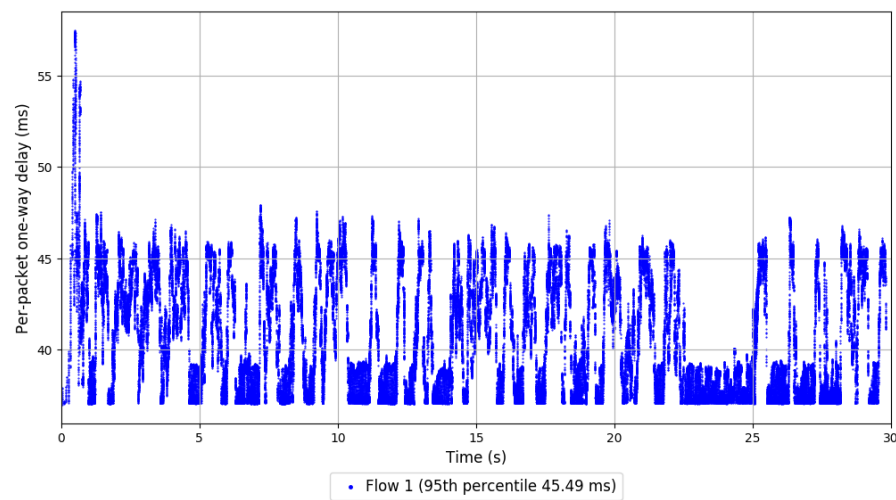
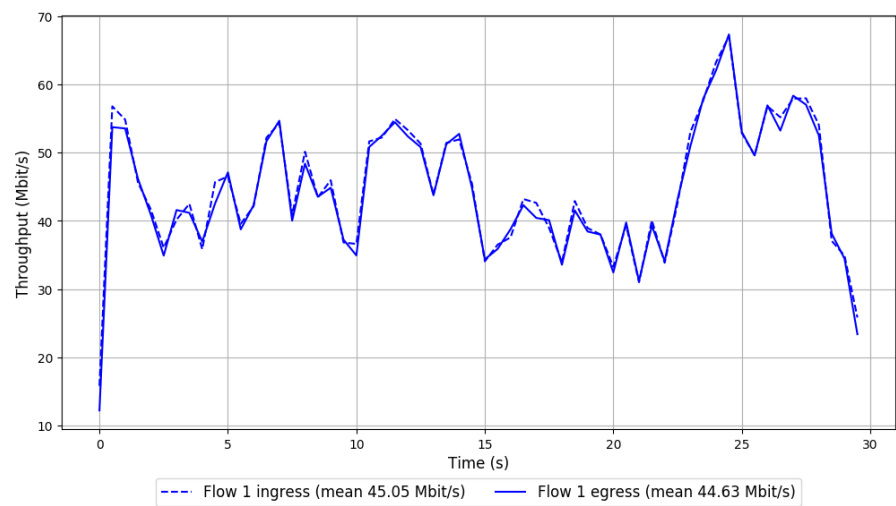


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 05:18:51  
End at: 2018-04-17 05:19:21  
Local clock offset: 12.077 ms  
Remote clock offset: -0.716 ms

# Below is generated by plot.py at 2018-04-17 09:55:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 44.63 Mbit/s  
95th percentile per-packet one-way delay: 45.493 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 44.63 Mbit/s  
95th percentile per-packet one-way delay: 45.493 ms  
Loss rate: 1.14%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 05:42:45

End at: 2018-04-17 05:43:15

Local clock offset: -1.793 ms

Remote clock offset: -1.65 ms

# Below is generated by plot.py at 2018-04-17 09:55:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 47.617 ms

Loss rate: 0.62%

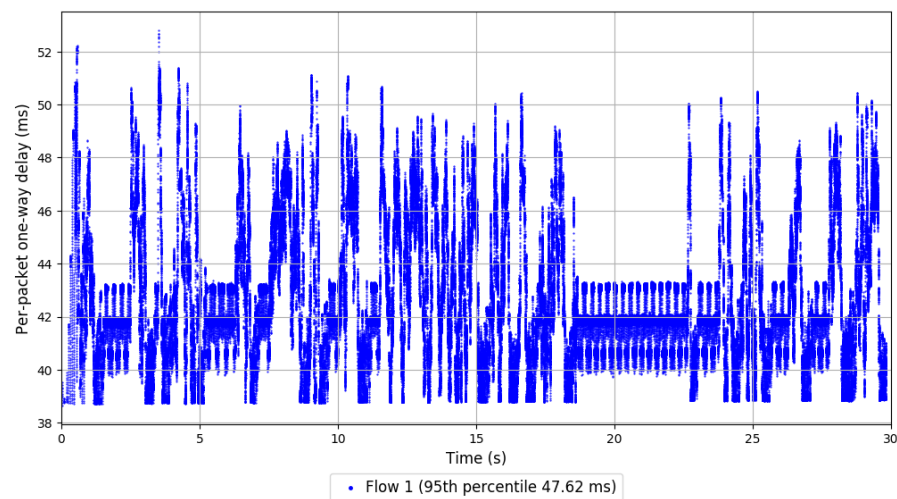
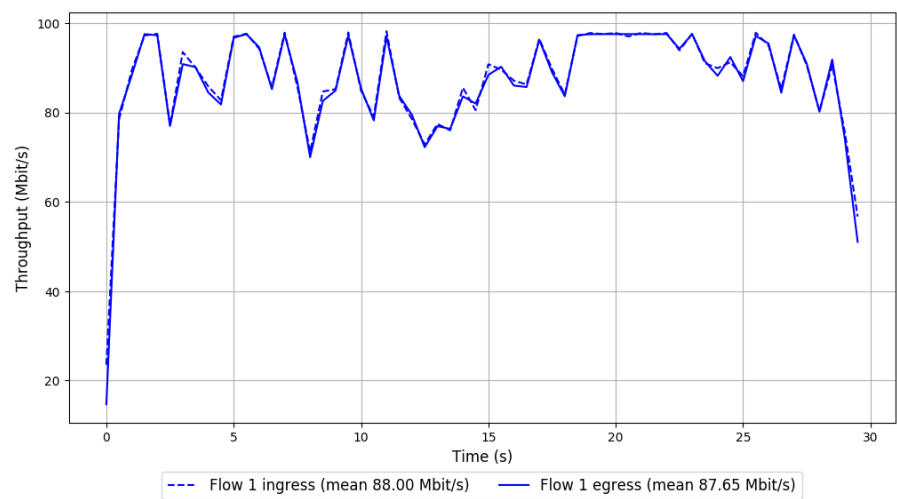
-- Flow 1:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 47.617 ms

Loss rate: 0.62%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 01:23:55

End at: 2018-04-17 01:24:25

Local clock offset: 6.551 ms

Remote clock offset: 0.736 ms

# Below is generated by plot.py at 2018-04-17 09:55:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 46.370 ms

Loss rate: 3.85%

-- Flow 1:

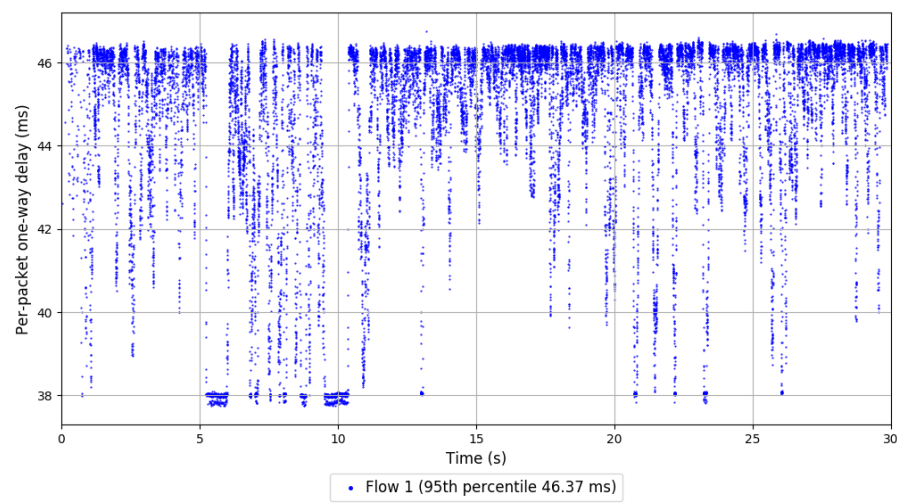
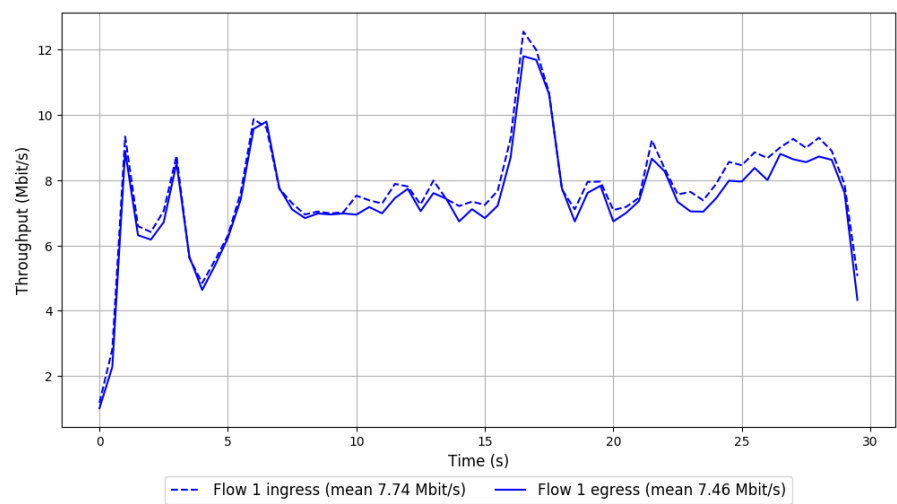
Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 46.370 ms

Loss rate: 3.85%



Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 01:50:57

End at: 2018-04-17 01:51:27

Local clock offset: 0.135 ms

Remote clock offset: 4.52 ms

# Below is generated by plot.py at 2018-04-17 09:55:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 46.954 ms

Loss rate: 1.64%

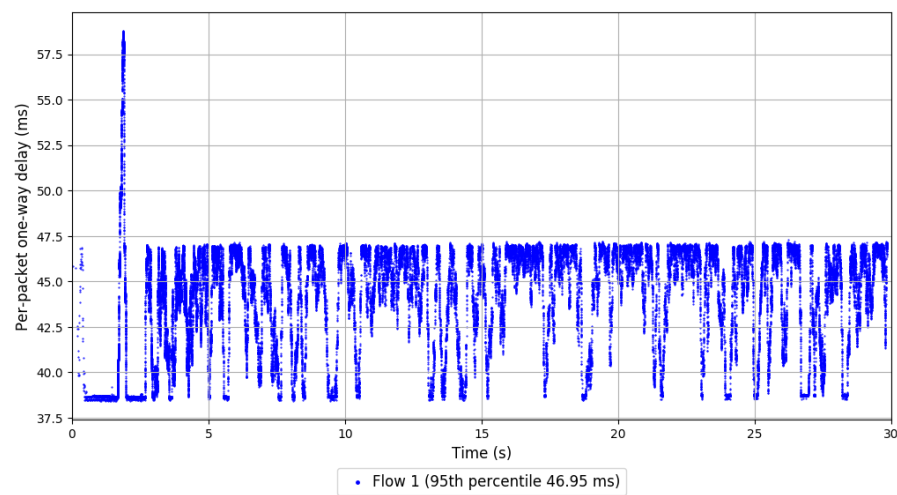
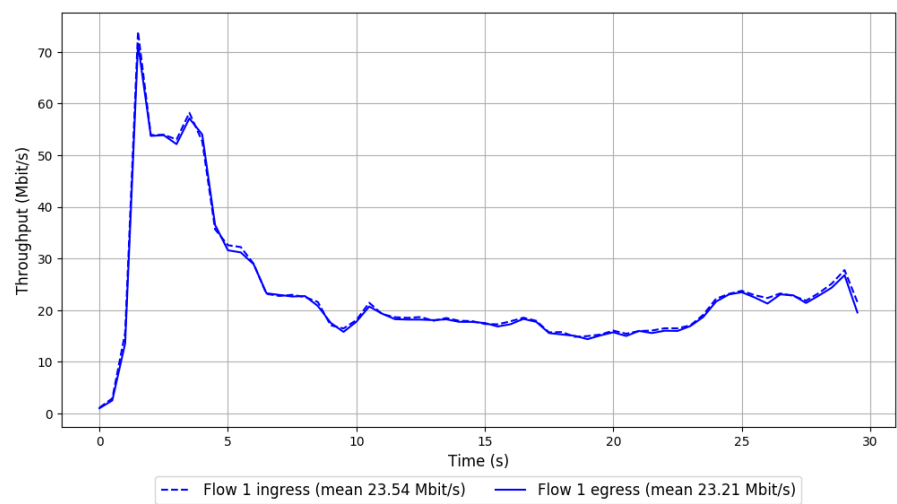
-- Flow 1:

Average throughput: 23.21 Mbit/s

95th percentile per-packet one-way delay: 46.954 ms

Loss rate: 1.64%

Run 2: Report of PCC-Vivace — Data Link

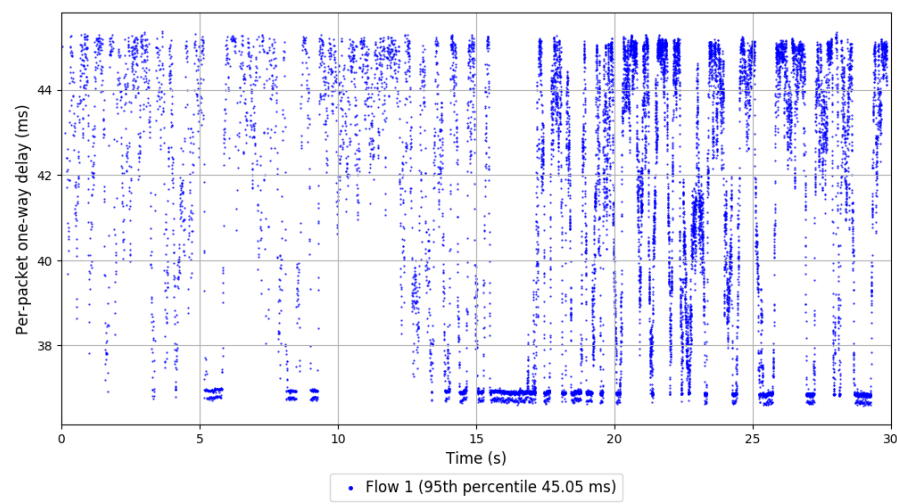
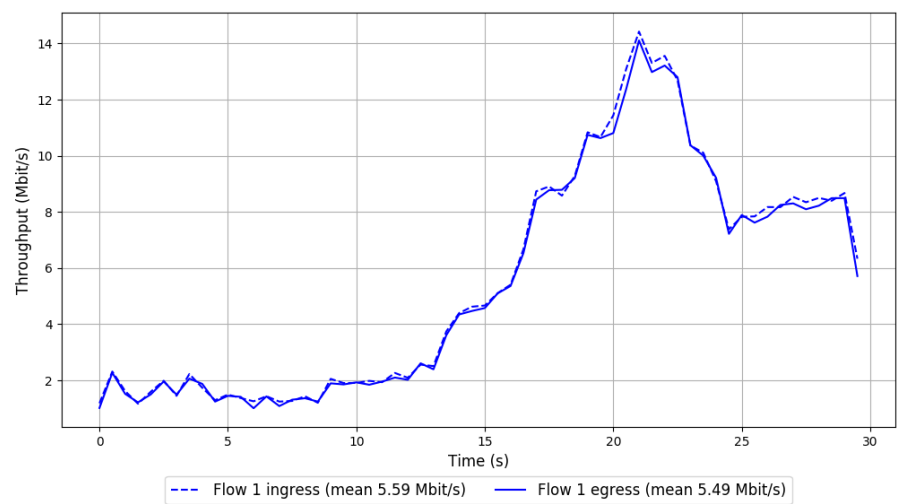


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 02:17:05  
End at: 2018-04-17 02:17:35  
Local clock offset: -0.186 ms  
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-04-17 09:55:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.49 Mbit/s  
95th percentile per-packet one-way delay: 45.054 ms  
Loss rate: 2.01%  
-- Flow 1:  
Average throughput: 5.49 Mbit/s  
95th percentile per-packet one-way delay: 45.054 ms  
Loss rate: 2.01%

Run 3: Report of PCC-Vivace — Data Link

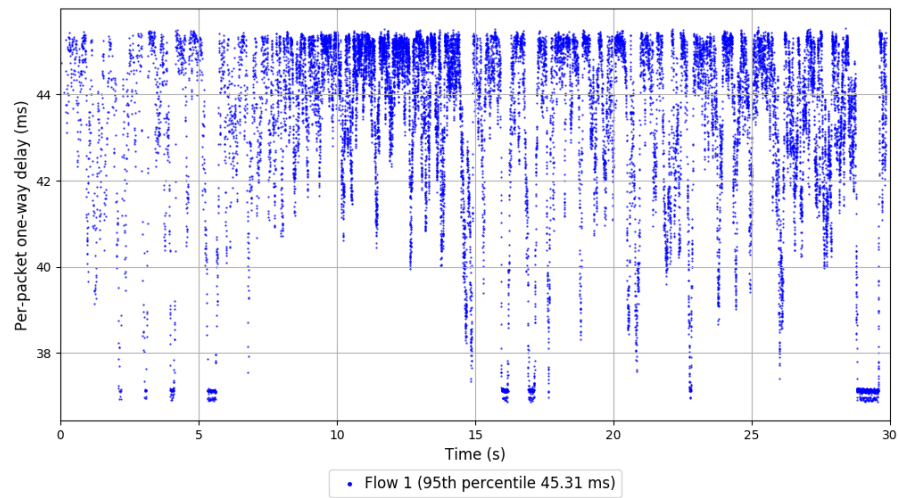
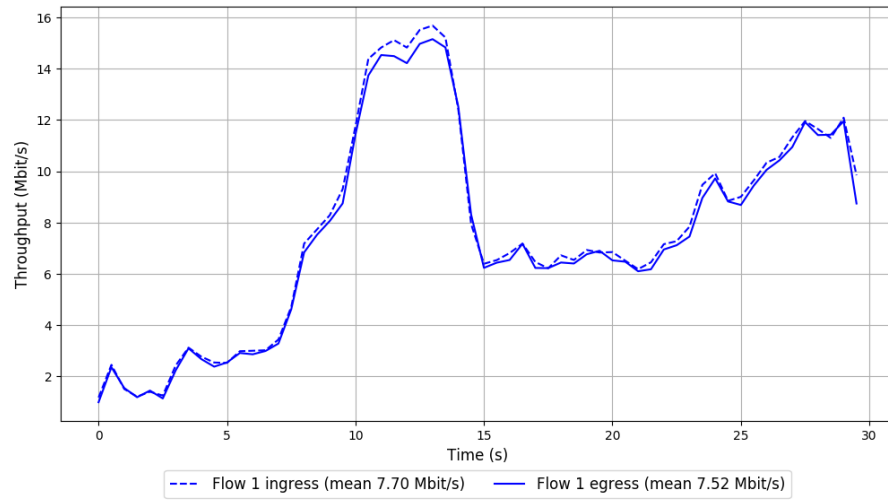


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 02:46:10  
End at: 2018-04-17 02:46:40  
Local clock offset: -0.288 ms  
Remote clock offset: -3.073 ms

# Below is generated by plot.py at 2018-04-17 09:55:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.52 Mbit/s  
95th percentile per-packet one-way delay: 45.313 ms  
Loss rate: 2.67%  
-- Flow 1:  
Average throughput: 7.52 Mbit/s  
95th percentile per-packet one-way delay: 45.313 ms  
Loss rate: 2.67%

#### Run 4: Report of PCC-Vivace — Data Link



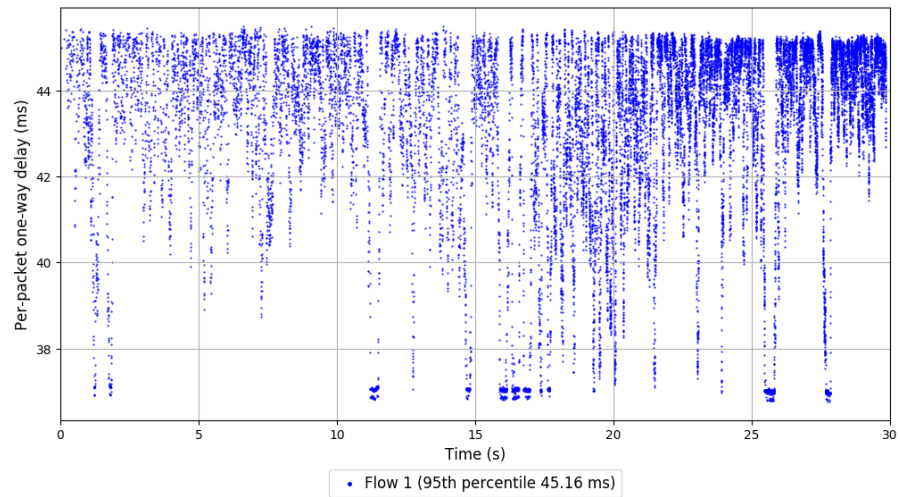
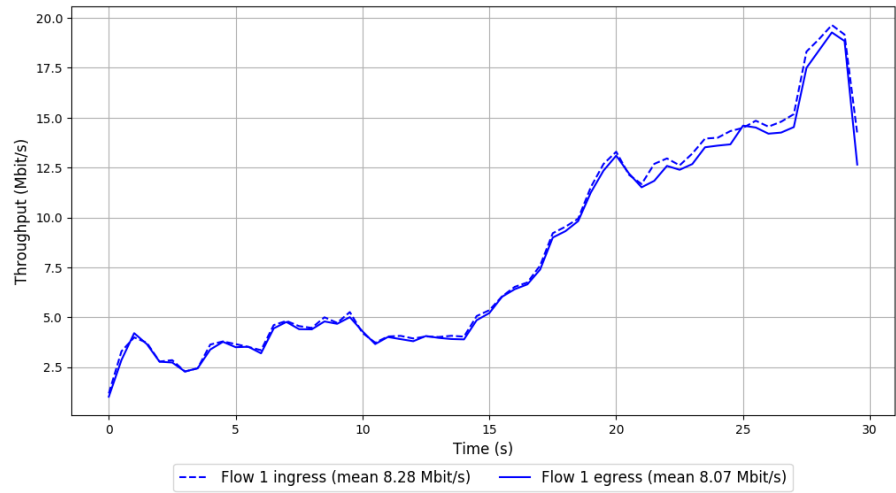
Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 03:14:37  
End at: 2018-04-17 03:15:07  
Local clock offset: -0.143 ms  
Remote clock offset: -3.459 ms

# Below is generated by plot.py at 2018-04-17 09:55:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.07 Mbit/s  
95th percentile per-packet one-way delay: 45.164 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 8.07 Mbit/s  
95th percentile per-packet one-way delay: 45.164 ms  
Loss rate: 2.80%



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



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 03:43:58

End at: 2018-04-17 03:44:28

Local clock offset: 0.908 ms

Remote clock offset: -6.998 ms

# Below is generated by plot.py at 2018-04-17 09:55:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 45.050 ms

Loss rate: 3.58%

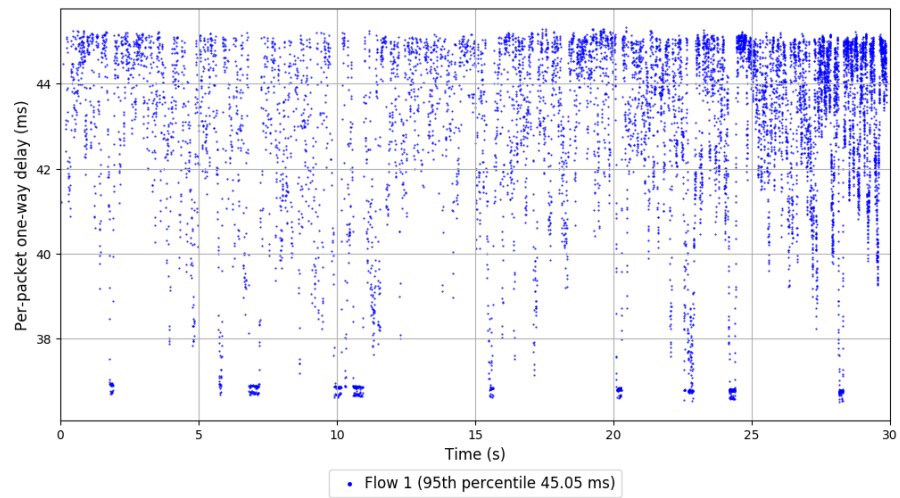
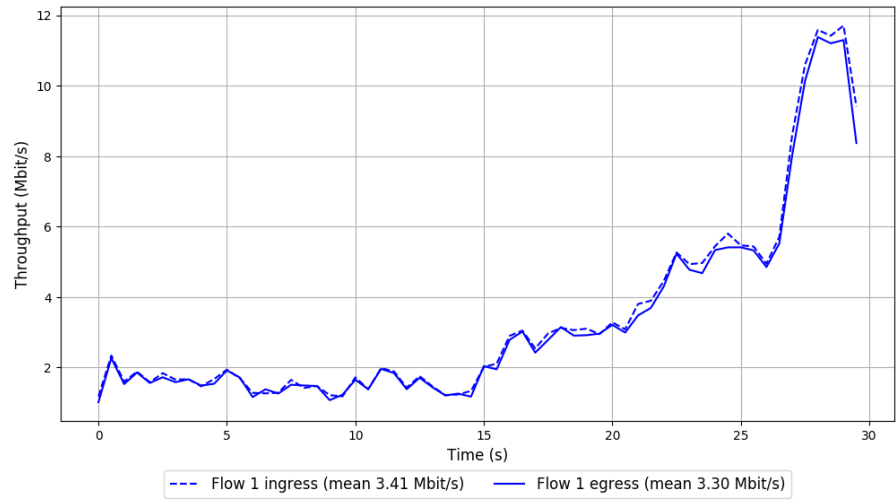
-- Flow 1:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 45.050 ms

Loss rate: 3.58%

# Run 6: Report of PCC-Vivace — Data Link

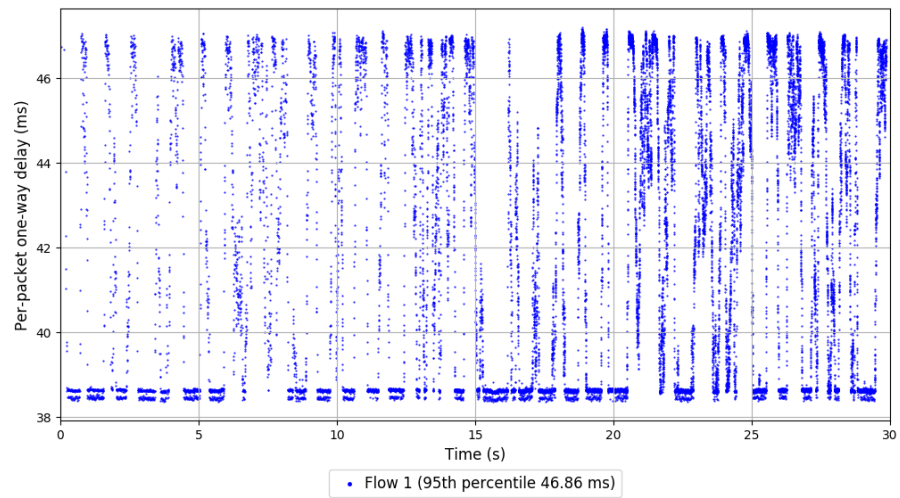
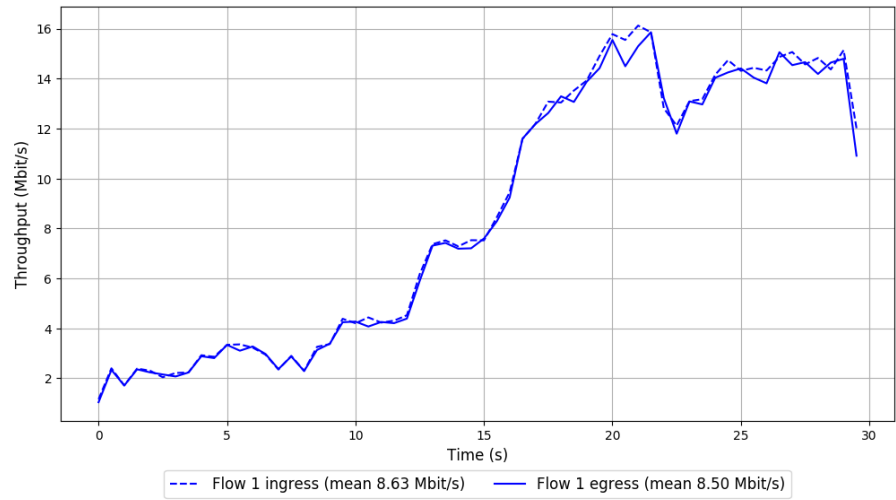


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 04:12:33  
End at: 2018-04-17 04:13:03  
Local clock offset: 5.27 ms  
Remote clock offset: -2.072 ms

# Below is generated by plot.py at 2018-04-17 09:55:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 46.859 ms  
Loss rate: 1.83%  
-- Flow 1:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 46.859 ms  
Loss rate: 1.83%

### Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 04:37:32

End at: 2018-04-17 04:38:02

Local clock offset: 8.665 ms

Remote clock offset: -6.603 ms

# Below is generated by plot.py at 2018-04-17 09:55:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 45.023 ms

Loss rate: 1.41%

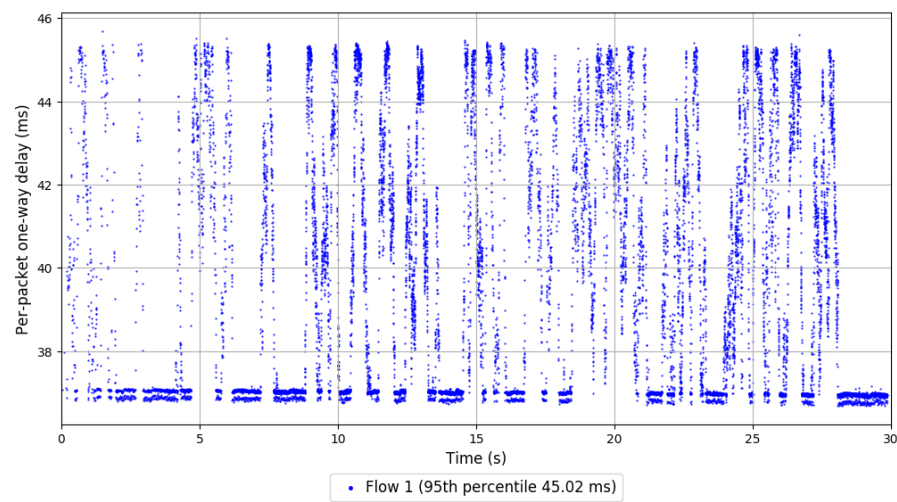
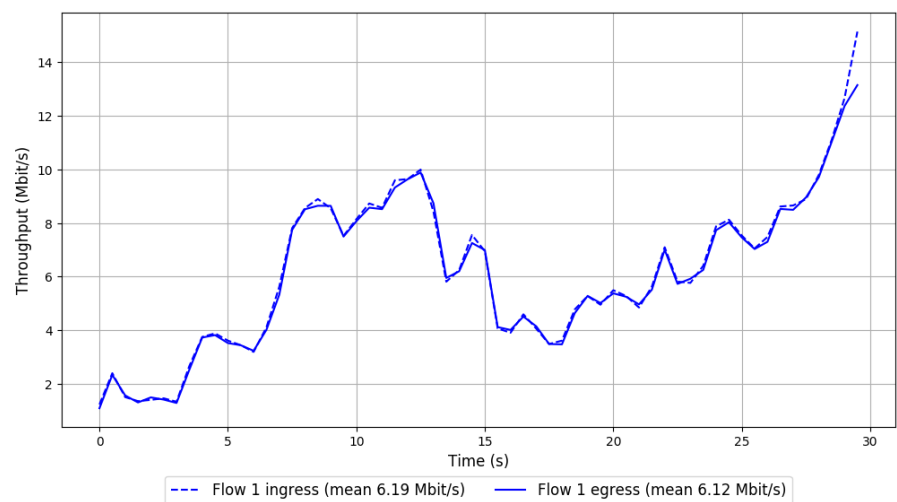
-- Flow 1:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 45.023 ms

Loss rate: 1.41%

Run 8: Report of PCC-Vivace — Data Link



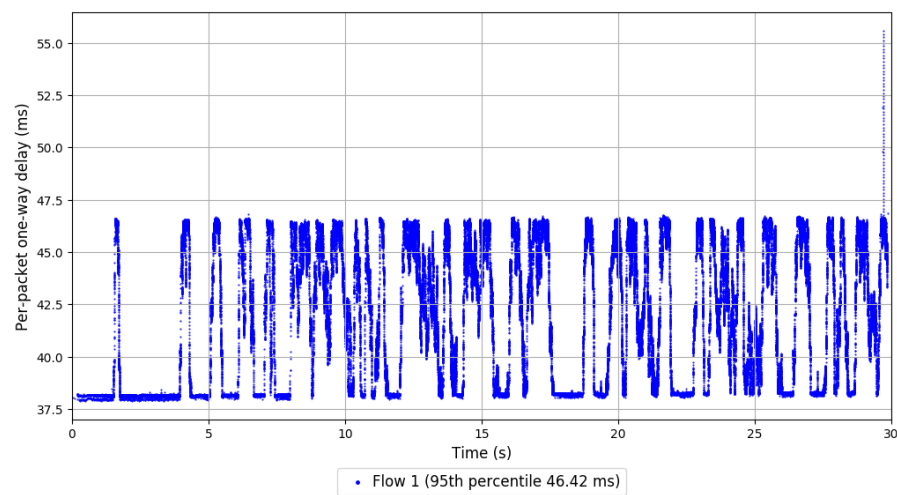
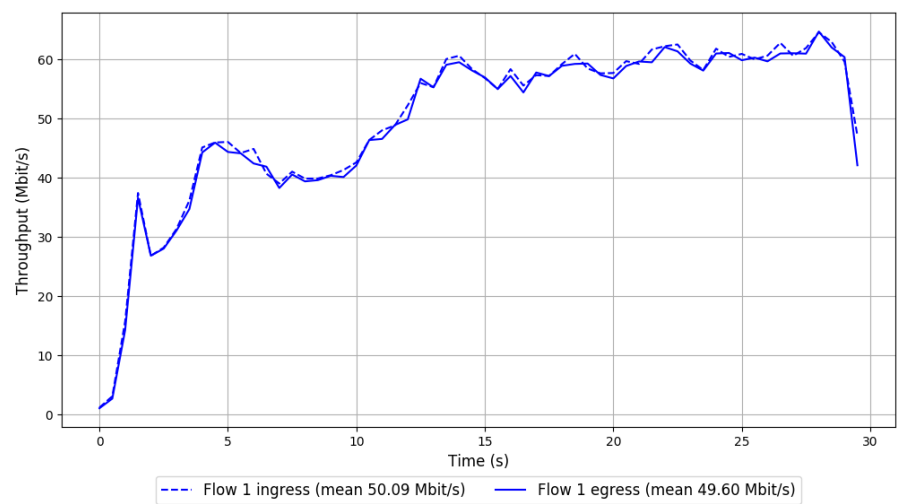
Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 05:01:49  
End at: 2018-04-17 05:02:19  
Local clock offset: 10.704 ms  
Remote clock offset: -4.413 ms

# Below is generated by plot.py at 2018-04-17 09:55:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 49.60 Mbit/s  
95th percentile per-packet one-way delay: 46.423 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 49.60 Mbit/s  
95th percentile per-packet one-way delay: 46.423 ms  
Loss rate: 1.19%



Run 9: Report of PCC-Vivace — Data Link

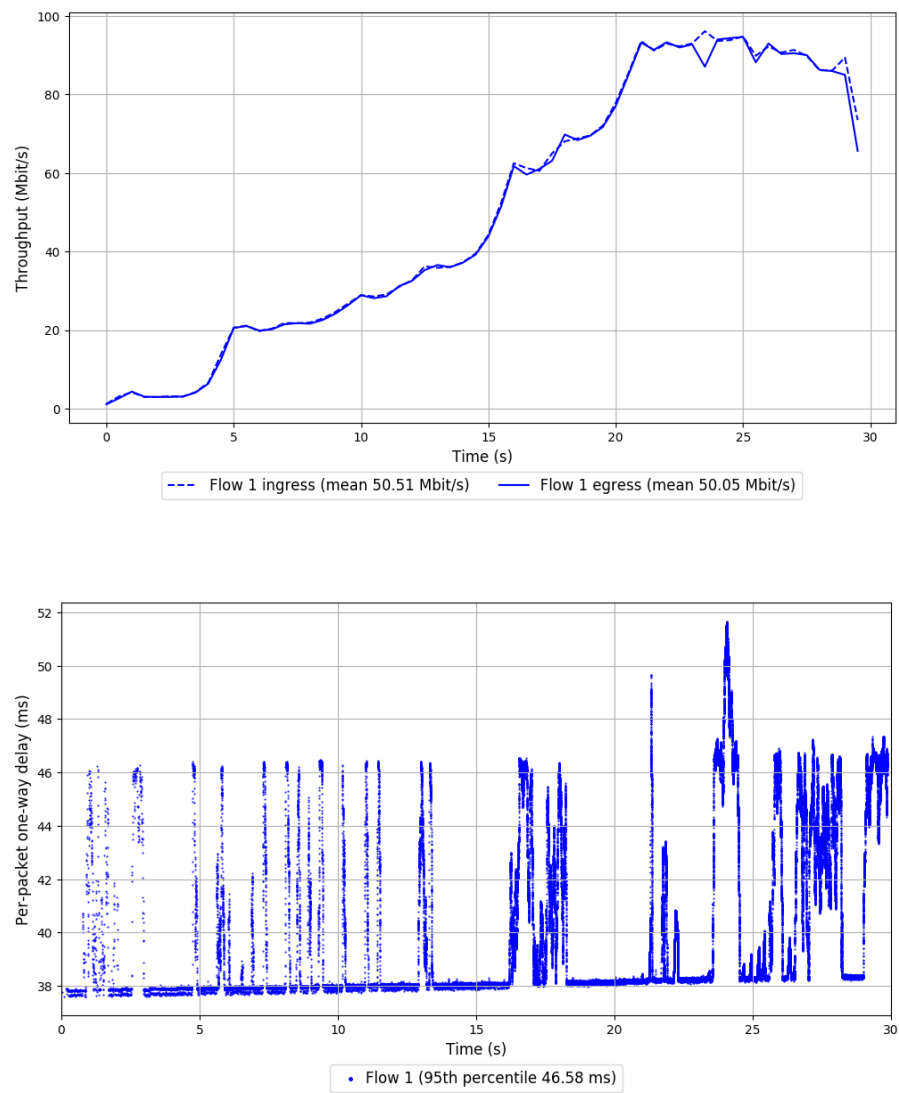


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 05:28:01  
End at: 2018-04-17 05:28:31  
Local clock offset: 7.558 ms  
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-04-17 09:55:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.05 Mbit/s  
95th percentile per-packet one-way delay: 46.582 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 50.05 Mbit/s  
95th percentile per-packet one-way delay: 46.582 ms  
Loss rate: 1.13%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 01:37:45

End at: 2018-04-17 01:38:16

Local clock offset: 1.579 ms

Remote clock offset: 2.575 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 02:03:53

End at: 2018-04-17 02:04:23

Local clock offset: -0.182 ms

Remote clock offset: 6.596 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 02:31:29

End at: 2018-04-17 02:31:59

Local clock offset: -0.421 ms

Remote clock offset: -2.732 ms



Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 02:59:50

End at: 2018-04-17 03:00:20

Local clock offset: -0.32 ms

Remote clock offset: -2.731 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 03:29:25

End at: 2018-04-17 03:29:55

Local clock offset: 0.006 ms

Remote clock offset: -5.854 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 03:57:29

End at: 2018-04-17 03:57:59

Local clock offset: 3.935 ms

Remote clock offset: -3.793 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 04:24:01

End at: 2018-04-17 04:24:31

Local clock offset: 7.083 ms

Remote clock offset: -2.472 ms



Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 04:48:37

End at: 2018-04-17 04:49:07

Local clock offset: 9.536 ms

Remote clock offset: -7.829 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 05:15:00

End at: 2018-04-17 05:15:30

Local clock offset: 11.788 ms

Remote clock offset: -1.216 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 05:38:54

End at: 2018-04-17 05:39:24

Local clock offset: -0.362 ms

Remote clock offset: -1.318 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing