

## Pantheon Report

Generated at 2018-04-24 12:34:47 (UTC).

Data path: China Ethernet (*remote*) → AWS Korea 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).

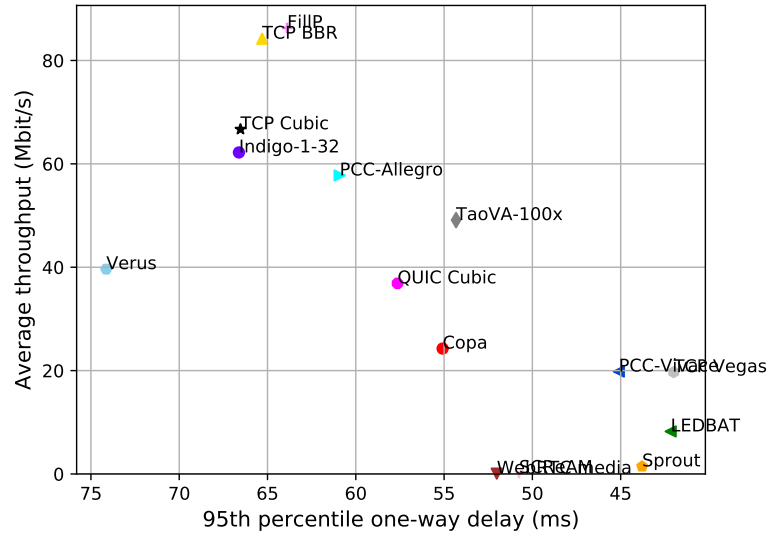
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

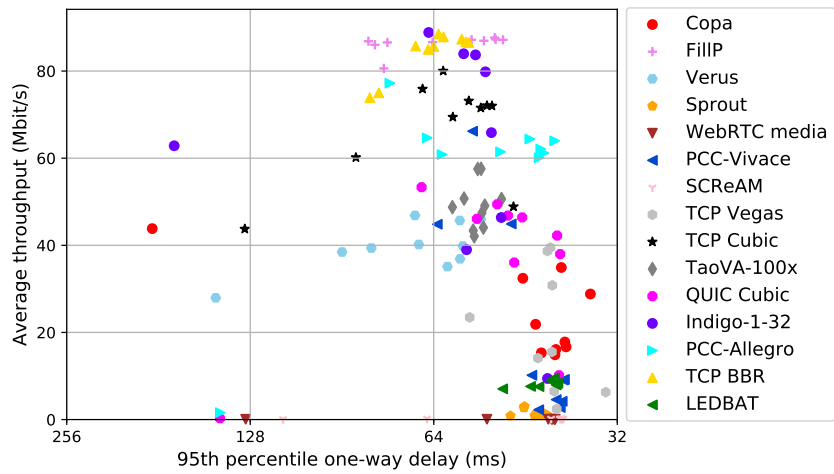
Git summary:

```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
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 China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from China Ethernet to AWS Korea 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	84.21	65.30	0.91
TCP Cubic	10	66.69	66.53	0.87
LEDBAT	9	8.23	42.17	1.34
PCC-Allegro	10	57.75	60.91	2.80
QUIC Cubic	10	36.88	57.64	2.78
SCReAM	9	0.21	50.76	0.71
WebRTC media	9	0.07	52.02	0.00
Sprout	10	1.47	43.79	0.88
TaoVA-100x	10	49.12	54.32	1.12
TCP Vegas	9	19.70	42.00	0.61
Verus	10	39.63	74.13	1.05
Copa	10	24.26	55.08	3.44
FillP	10	86.29	63.89	1.41
Indigo-1-32	9	62.21	66.62	2.63
PCC-Vivace	10	19.82	45.11	1.20
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-24 05:20:56

End at: 2018-04-24 05:21:26

Local clock offset: -4.109 ms

Remote clock offset: -1.193 ms

# Below is generated by plot.py at 2018-04-24 12:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 56.701 ms

Loss rate: 0.83%

-- Flow 1:

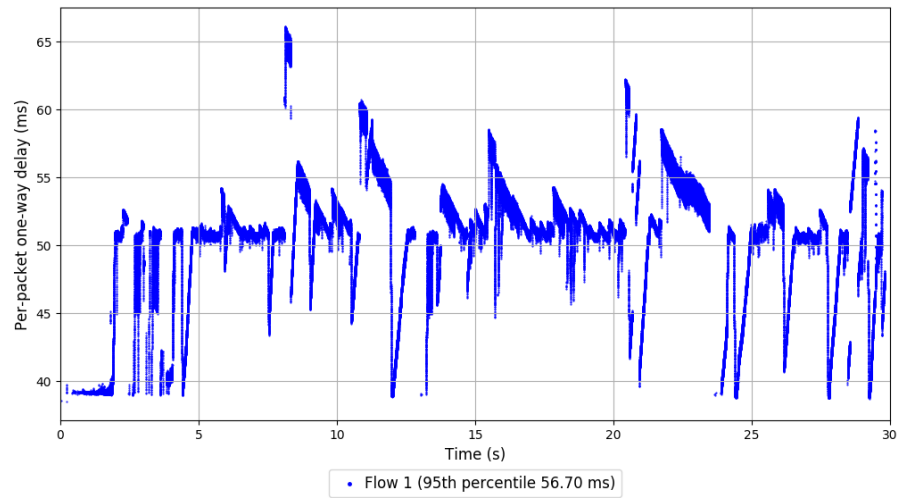
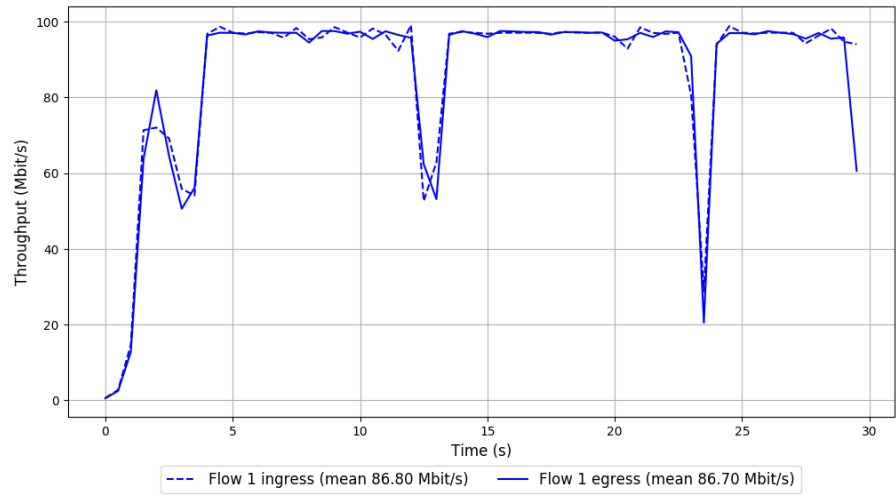
Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 56.701 ms

Loss rate: 0.83%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-24 05:42:11

End at: 2018-04-24 05:42:41

Local clock offset: -0.281 ms

Remote clock offset: 1.344 ms

# Below is generated by plot.py at 2018-04-24 12:23:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.31 Mbit/s

95th percentile per-packet one-way delay: 57.586 ms

Loss rate: 0.88%

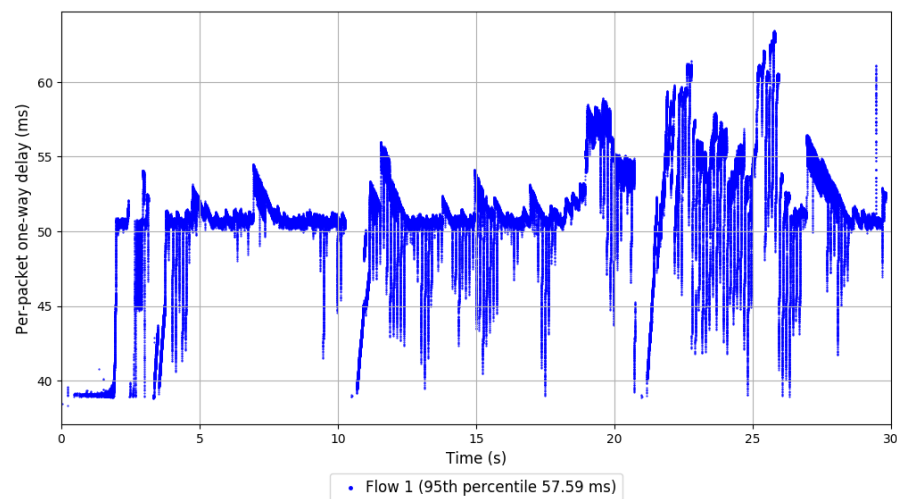
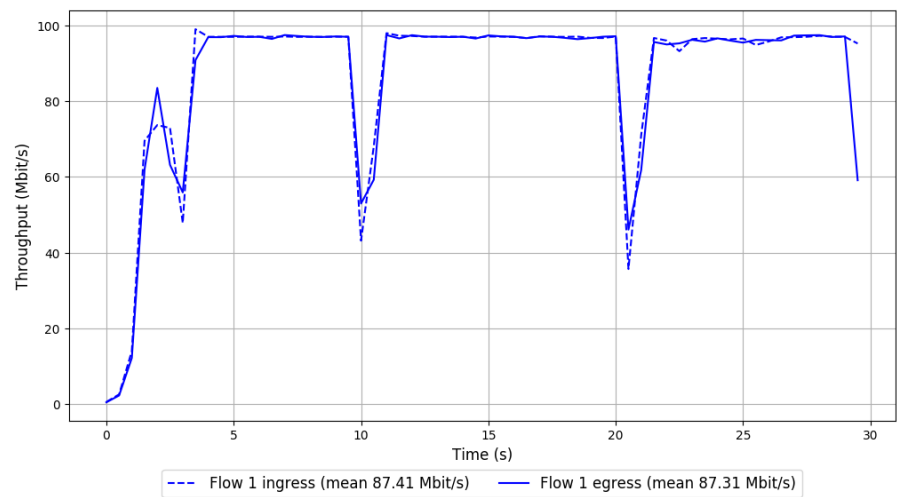
-- Flow 1:

Average throughput: 87.31 Mbit/s

95th percentile per-packet one-way delay: 57.586 ms

Loss rate: 0.88%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 06:03:32

End at: 2018-04-24 06:04:02

Local clock offset: 2.084 ms

Remote clock offset: 30.32 ms

# Below is generated by plot.py at 2018-04-24 12:23:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 62.854 ms

Loss rate: 0.79%

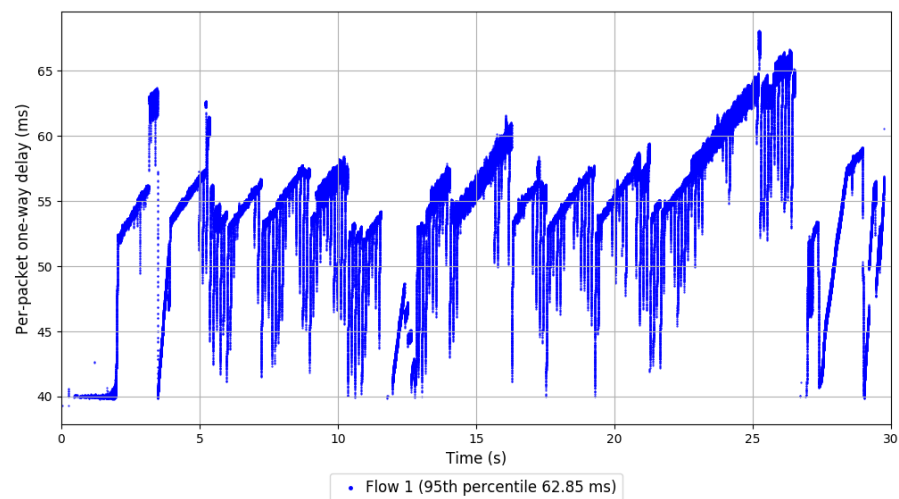
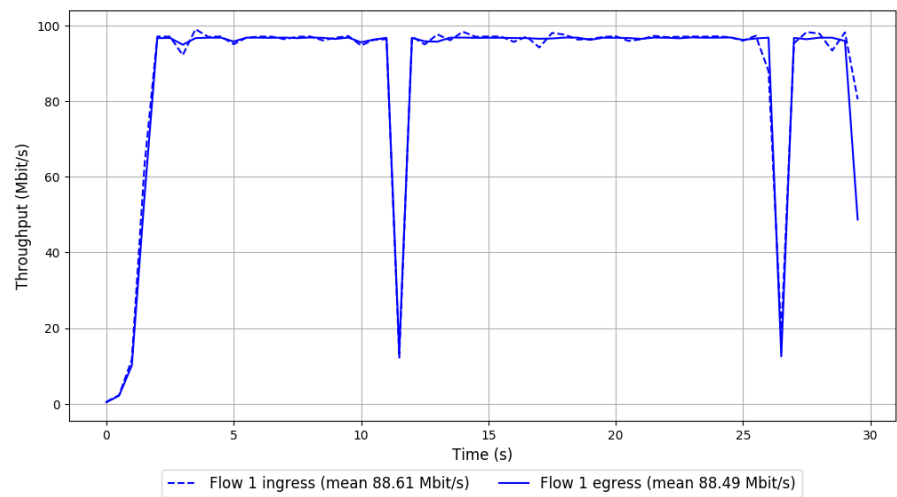
-- Flow 1:

Average throughput: 88.49 Mbit/s

95th percentile per-packet one-way delay: 62.854 ms

Loss rate: 0.79%

Run 3: Report of TCP BBR — Data Link

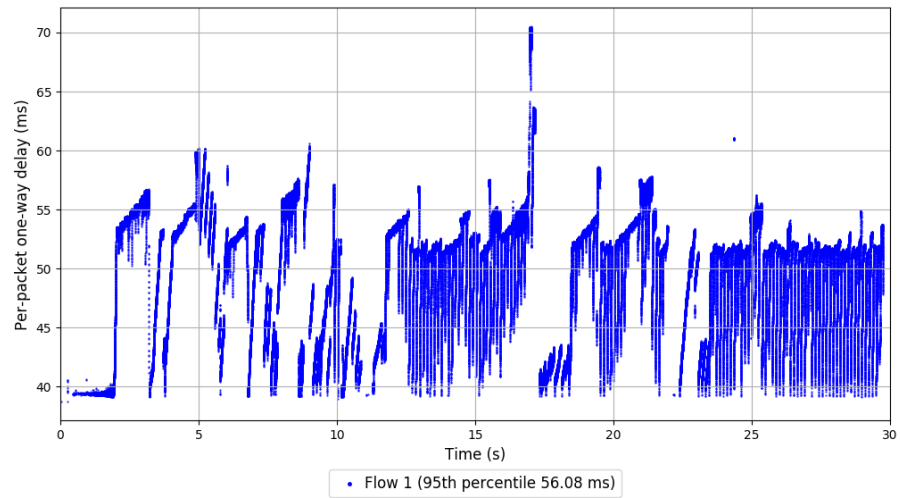
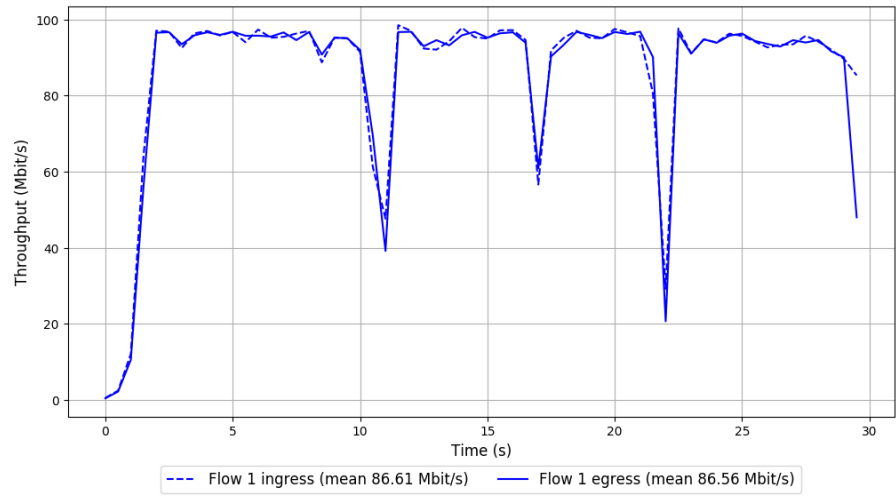


Run 4: Statistics of TCP BBR

Start at: 2018-04-24 06:24:45  
End at: 2018-04-24 06:25:15  
Local clock offset: 3.156 ms  
Remote clock offset: -11.776 ms

# Below is generated by plot.py at 2018-04-24 12:23:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.56 Mbit/s  
95th percentile per-packet one-way delay: 56.081 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 86.56 Mbit/s  
95th percentile per-packet one-way delay: 56.081 ms  
Loss rate: 0.90%

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



Run 5: Statistics of TCP BBR

Start at: 2018-04-24 06:46:04

End at: 2018-04-24 06:46:34

Local clock offset: 3.965 ms

Remote clock offset: 8.763 ms

# Below is generated by plot.py at 2018-04-24 12:23:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 68.531 ms

Loss rate: 0.86%

-- Flow 1:

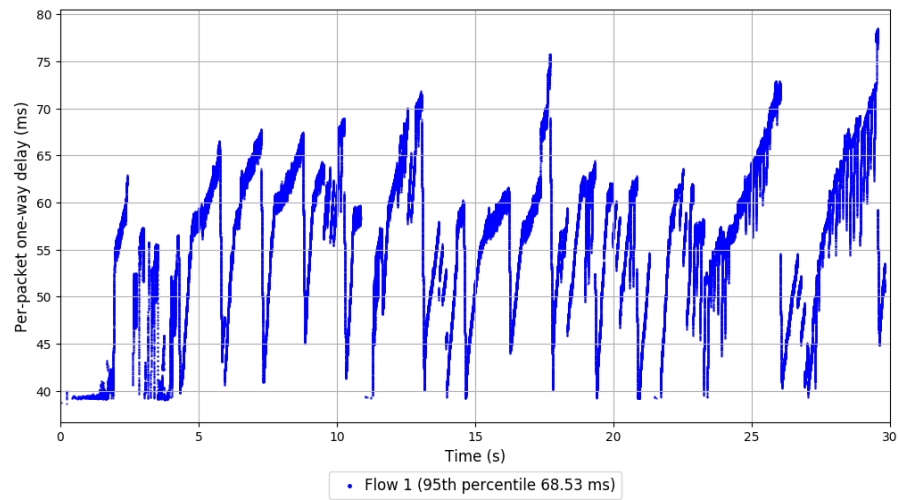
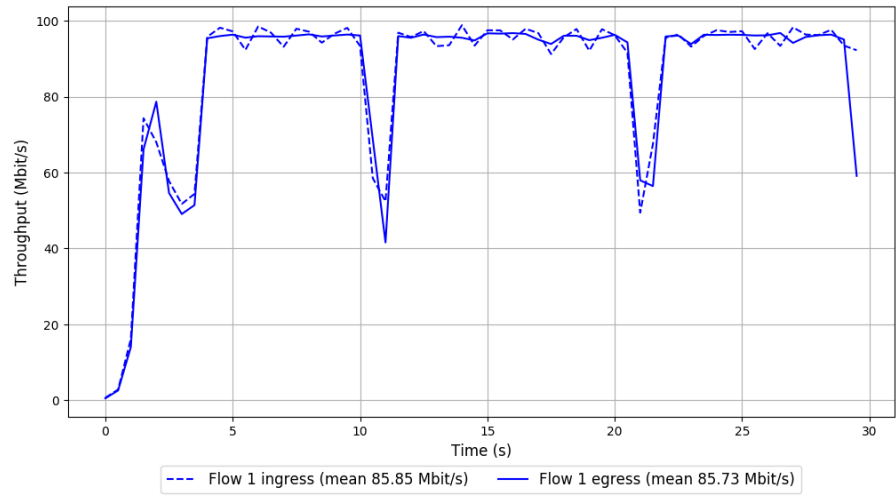
Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 68.531 ms

Loss rate: 0.86%



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

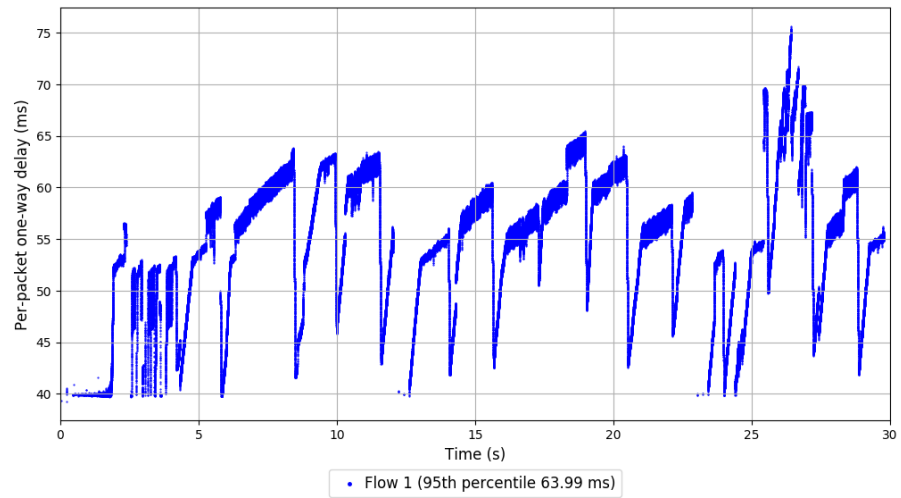
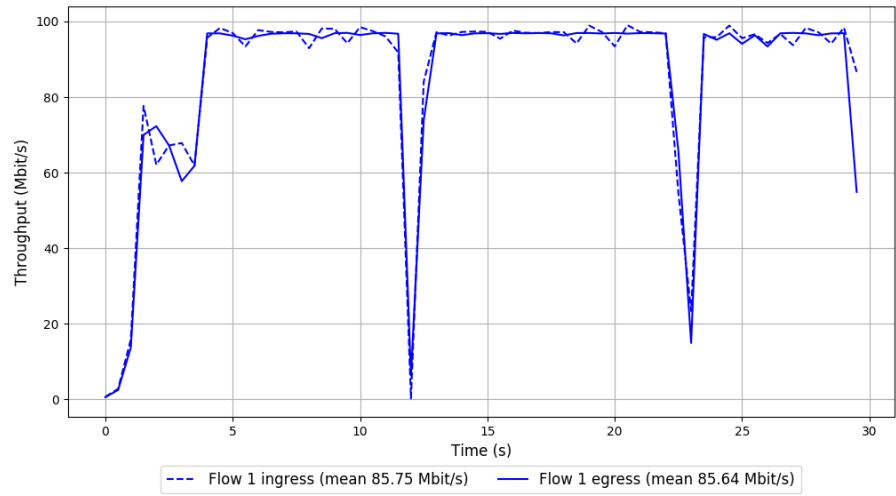


Run 6: Statistics of TCP BBR

Start at: 2018-04-24 07:07:19  
End at: 2018-04-24 07:07:49  
Local clock offset: 3.309 ms  
Remote clock offset: 43.858 ms

# Below is generated by plot.py at 2018-04-24 12:23:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.64 Mbit/s  
95th percentile per-packet one-way delay: 63.992 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 85.64 Mbit/s  
95th percentile per-packet one-way delay: 63.992 ms  
Loss rate: 0.83%

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

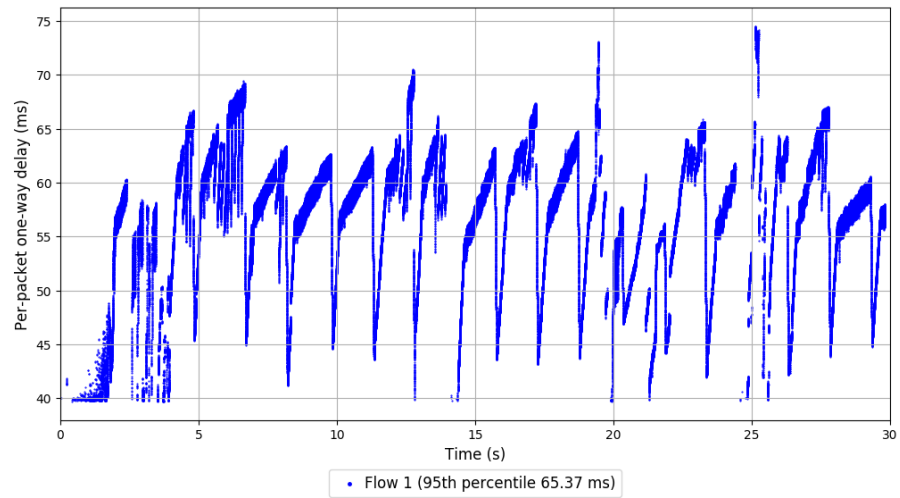
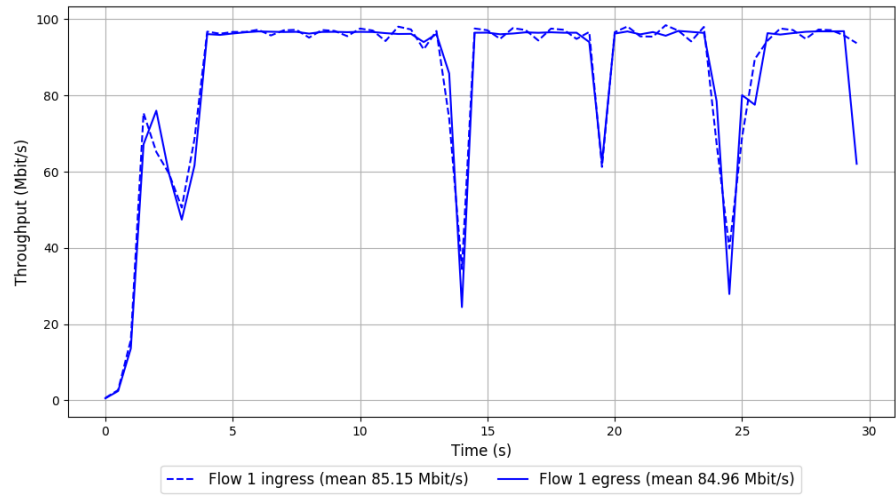


Run 7: Statistics of TCP BBR

Start at: 2018-04-24 07:34:45  
End at: 2018-04-24 07:35:15  
Local clock offset: -3.176 ms  
Remote clock offset: 11.226 ms

# Below is generated by plot.py at 2018-04-24 12:23:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.96 Mbit/s  
95th percentile per-packet one-way delay: 65.369 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 84.96 Mbit/s  
95th percentile per-packet one-way delay: 65.369 ms  
Loss rate: 0.89%

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

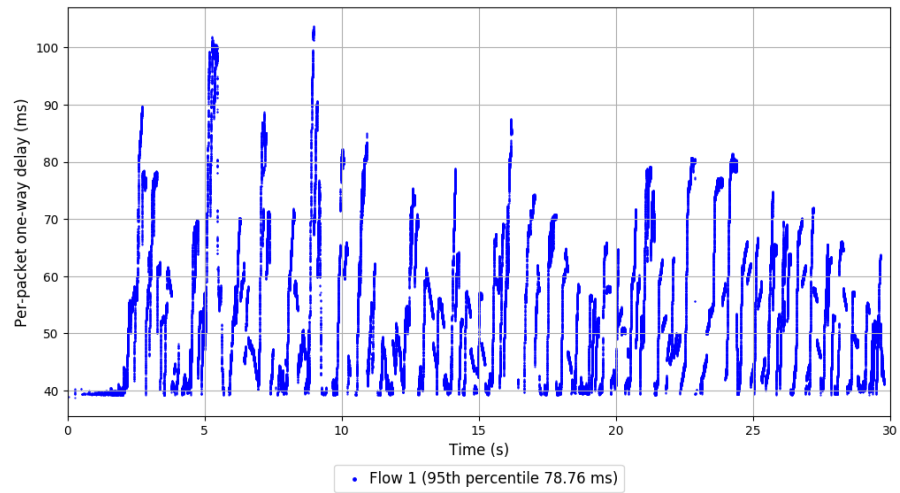
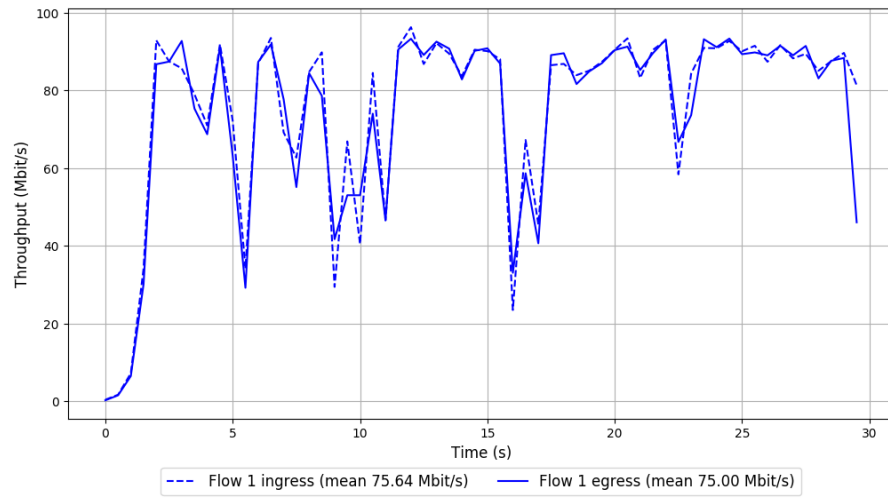


Run 8: Statistics of TCP BBR

Start at: 2018-04-24 07:55:59  
End at: 2018-04-24 07:56:29  
Local clock offset: -5.473 ms  
Remote clock offset: 27.013 ms

# Below is generated by plot.py at 2018-04-24 12:23:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.00 Mbit/s  
95th percentile per-packet one-way delay: 78.762 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 75.00 Mbit/s  
95th percentile per-packet one-way delay: 78.762 ms  
Loss rate: 1.66%

# Run 8: Report of TCP BBR — Data Link



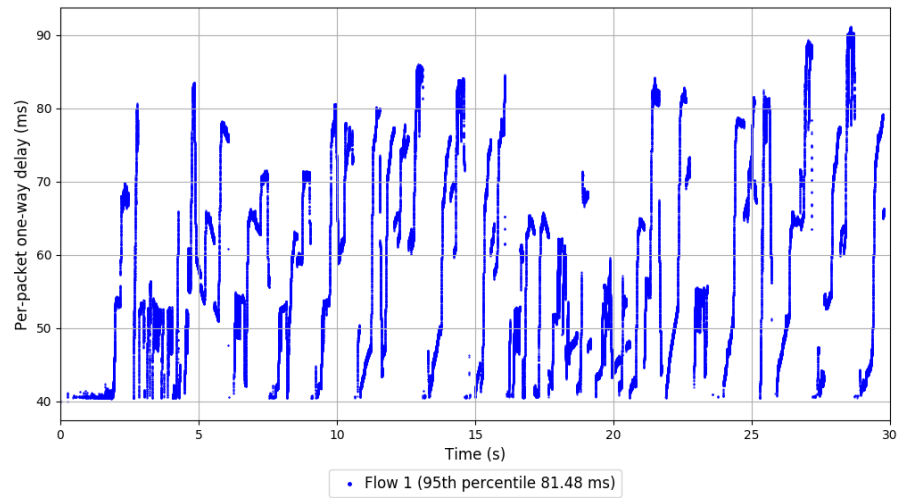
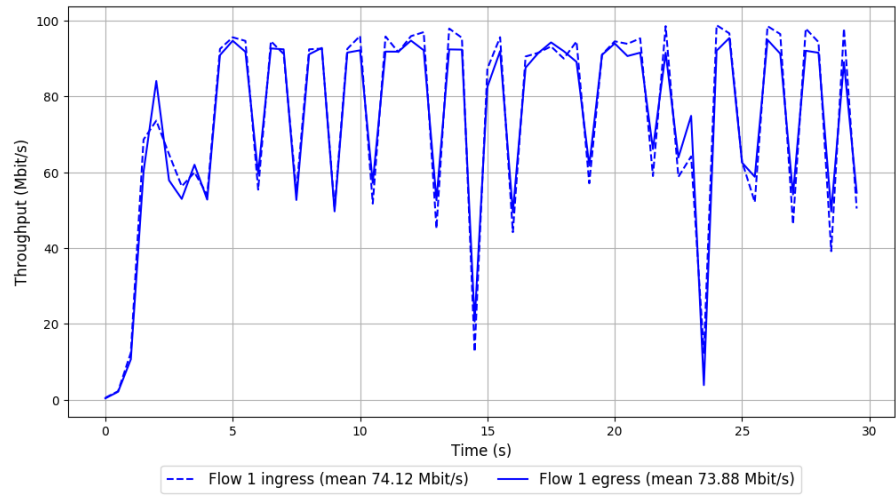
Run 9: Statistics of TCP BBR

Start at: 2018-04-24 08:17:30  
End at: 2018-04-24 08:18:00  
Local clock offset: -1.352 ms  
Remote clock offset: 31.747 ms

# Below is generated by plot.py at 2018-04-24 12:24:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.88 Mbit/s  
95th percentile per-packet one-way delay: 81.479 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 73.88 Mbit/s  
95th percentile per-packet one-way delay: 81.479 ms  
Loss rate: 0.62%



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

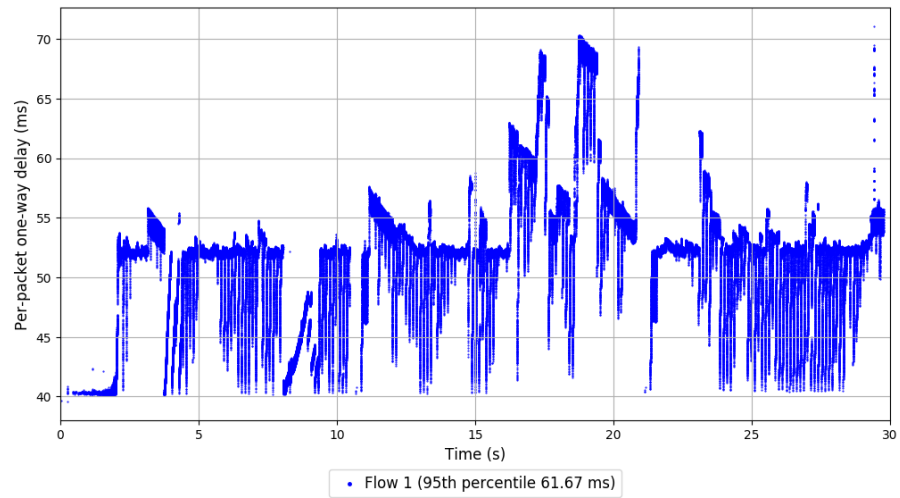
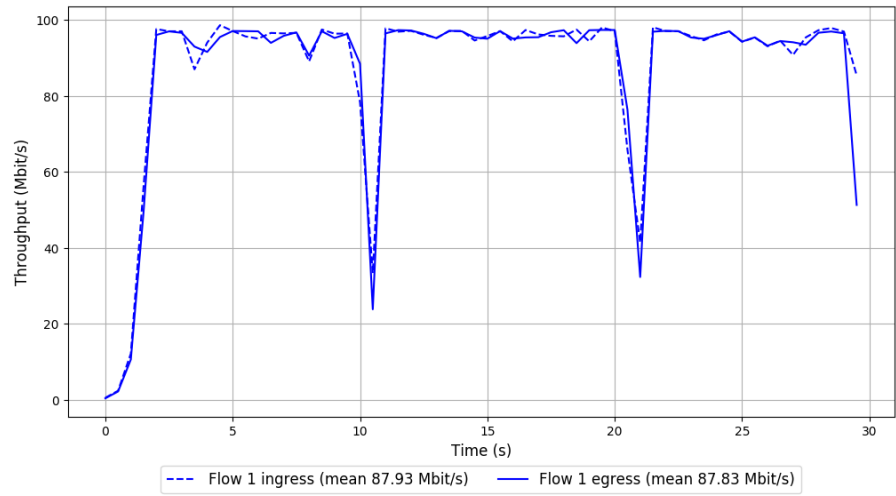


Run 10: Statistics of TCP BBR

Start at: 2018-04-24 08:39:26  
End at: 2018-04-24 08:39:56  
Local clock offset: -3.192 ms  
Remote clock offset: 21.288 ms

# Below is generated by plot.py at 2018-04-24 12:24:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.83 Mbit/s  
95th percentile per-packet one-way delay: 61.675 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 87.83 Mbit/s  
95th percentile per-packet one-way delay: 61.675 ms  
Loss rate: 0.85%

# Run 10: Report of TCP BBR — Data Link

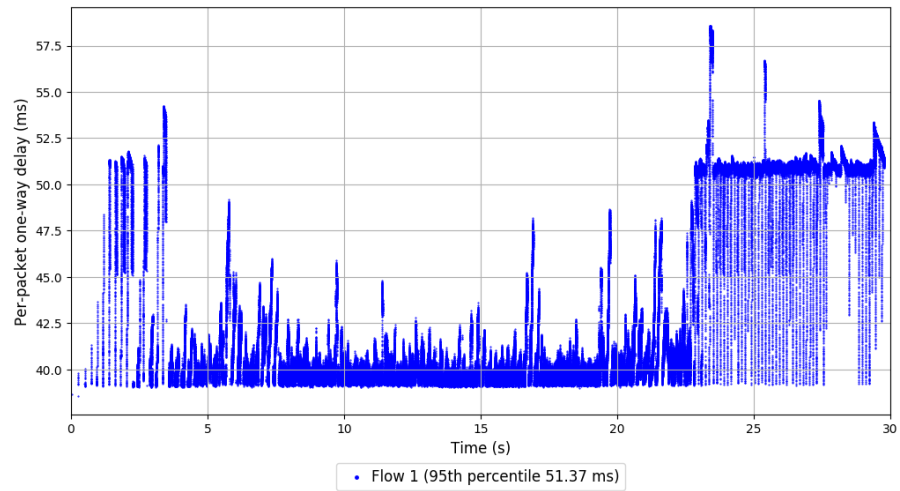
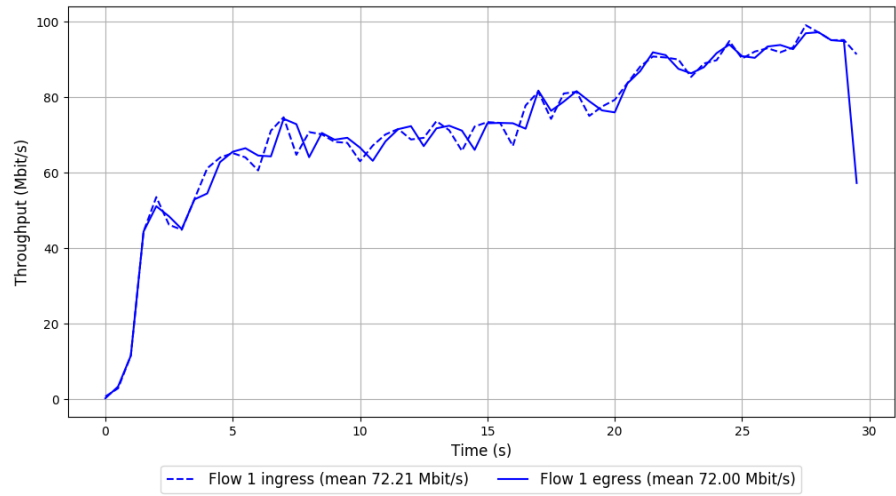


Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 05:19:38  
End at: 2018-04-24 05:20:08  
Local clock offset: -3.91 ms  
Remote clock offset: -1.215 ms

# Below is generated by plot.py at 2018-04-24 12:24:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 72.00 Mbit/s  
95th percentile per-packet one-way delay: 51.366 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 72.00 Mbit/s  
95th percentile per-packet one-way delay: 51.366 ms  
Loss rate: 1.02%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 05:40:53

End at: 2018-04-24 05:41:23

Local clock offset: -0.587 ms

Remote clock offset: 1.265 ms

# Below is generated by plot.py at 2018-04-24 12:24:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.07 Mbit/s

95th percentile per-packet one-way delay: 52.342 ms

Loss rate: 1.03%

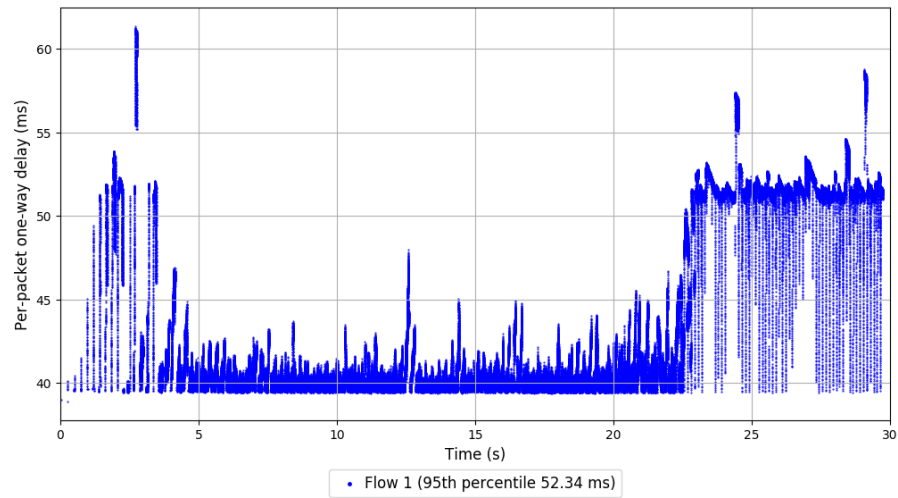
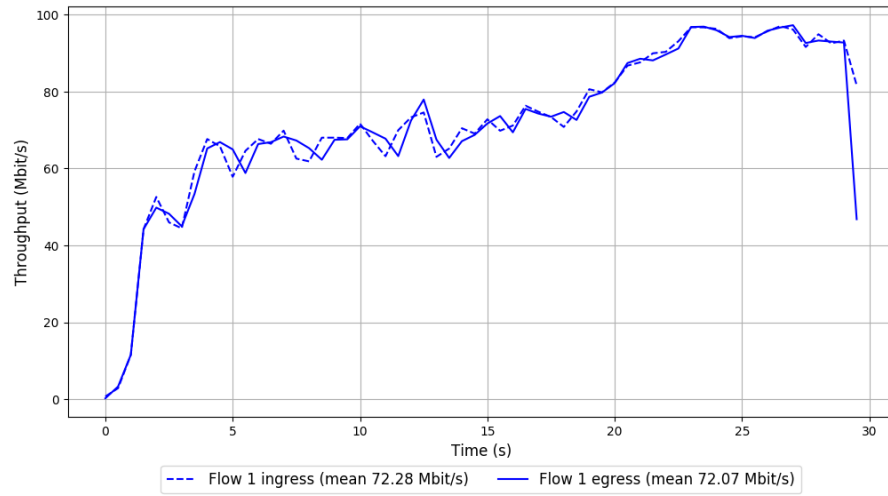
-- Flow 1:

Average throughput: 72.07 Mbit/s

95th percentile per-packet one-way delay: 52.342 ms

Loss rate: 1.03%

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



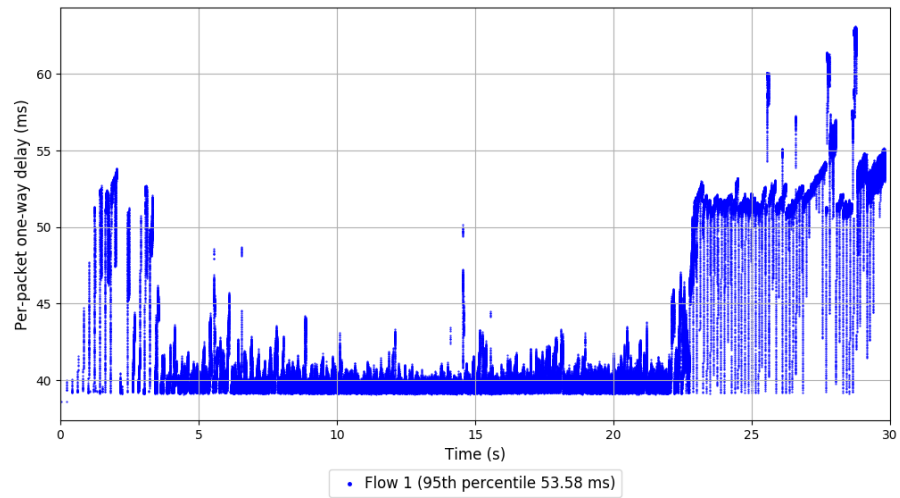
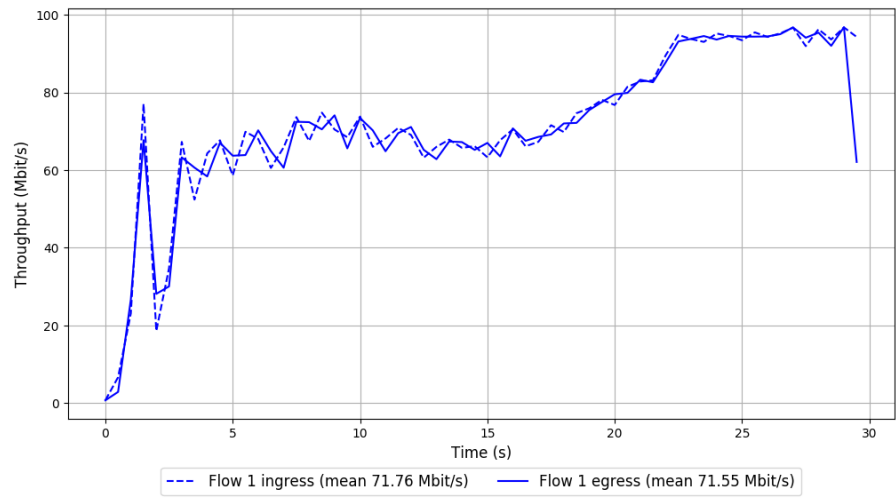
Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 06:02:16  
End at: 2018-04-24 06:02:46  
Local clock offset: 1.787 ms  
Remote clock offset: 30.354 ms

# Below is generated by plot.py at 2018-04-24 12:24:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 71.55 Mbit/s  
95th percentile per-packet one-way delay: 53.576 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 71.55 Mbit/s  
95th percentile per-packet one-way delay: 53.576 ms  
Loss rate: 0.99%



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

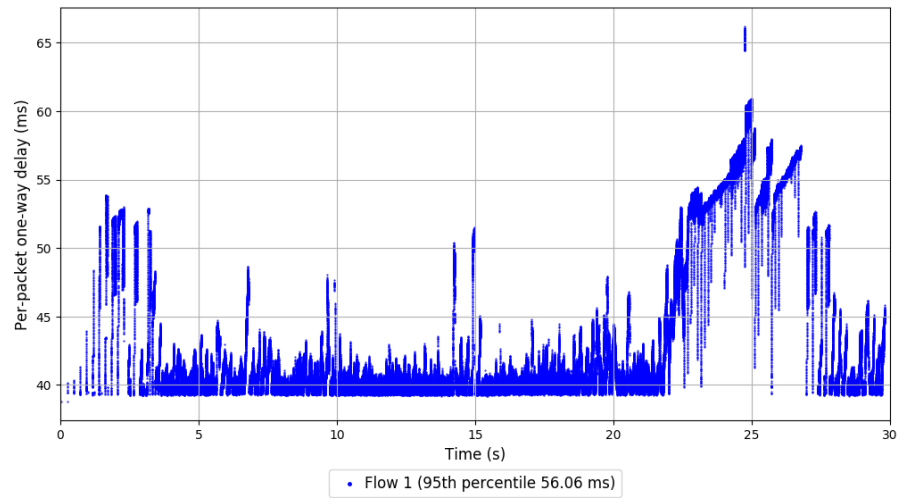
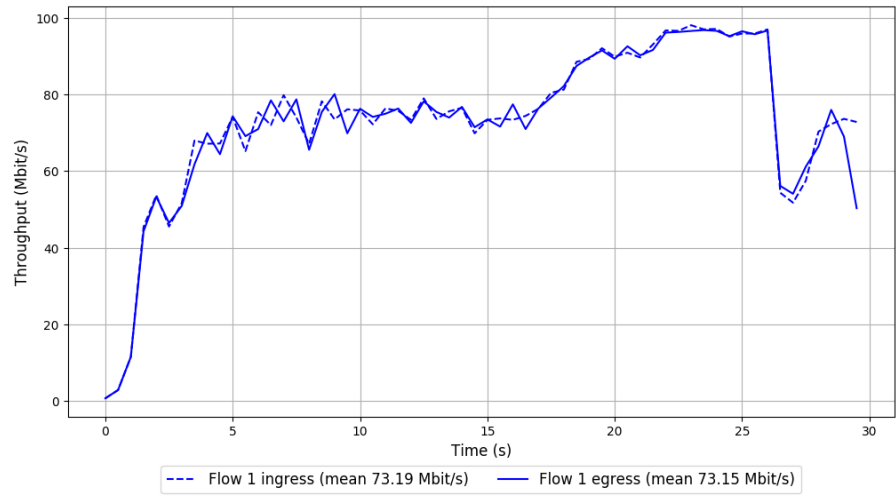


Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 06:23:28  
End at: 2018-04-24 06:23:58  
Local clock offset: 2.86 ms  
Remote clock offset: -11.915 ms

# Below is generated by plot.py at 2018-04-24 12:24:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.15 Mbit/s  
95th percentile per-packet one-way delay: 56.063 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 73.15 Mbit/s  
95th percentile per-packet one-way delay: 56.063 ms  
Loss rate: 0.69%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 06:44:47

End at: 2018-04-24 06:45:17

Local clock offset: 3.944 ms

Remote clock offset: 8.824 ms

# Below is generated by plot.py at 2018-04-24 12:24:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 59.553 ms

Loss rate: 0.84%

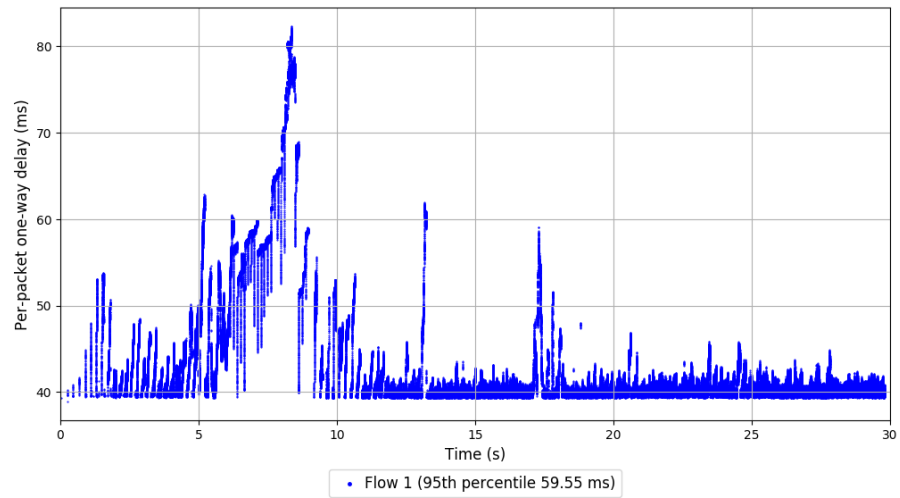
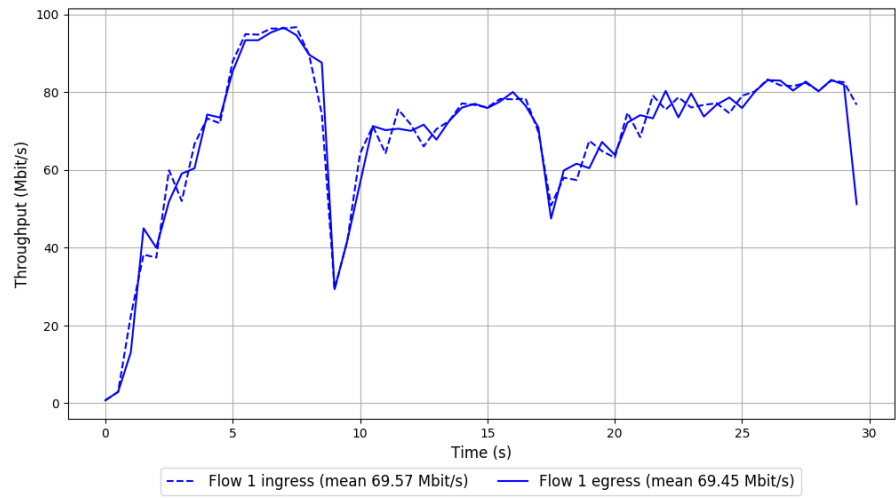
-- Flow 1:

Average throughput: 69.45 Mbit/s

95th percentile per-packet one-way delay: 59.553 ms

Loss rate: 0.84%

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

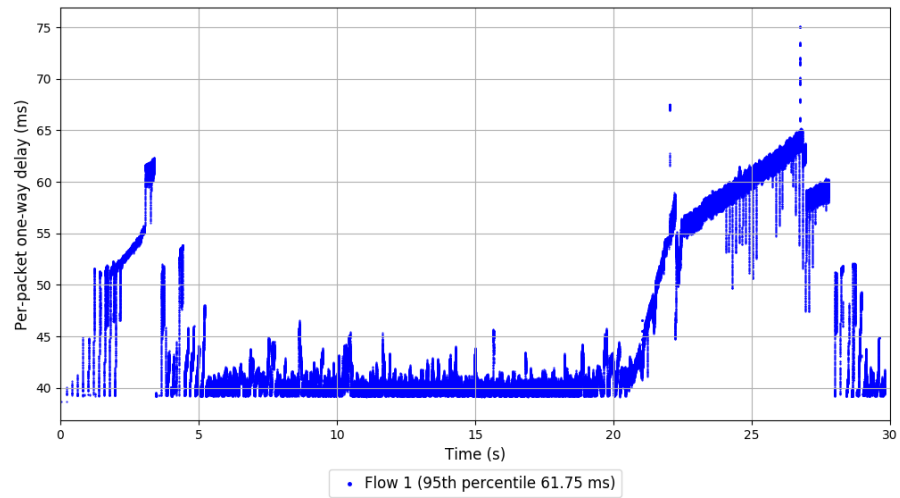
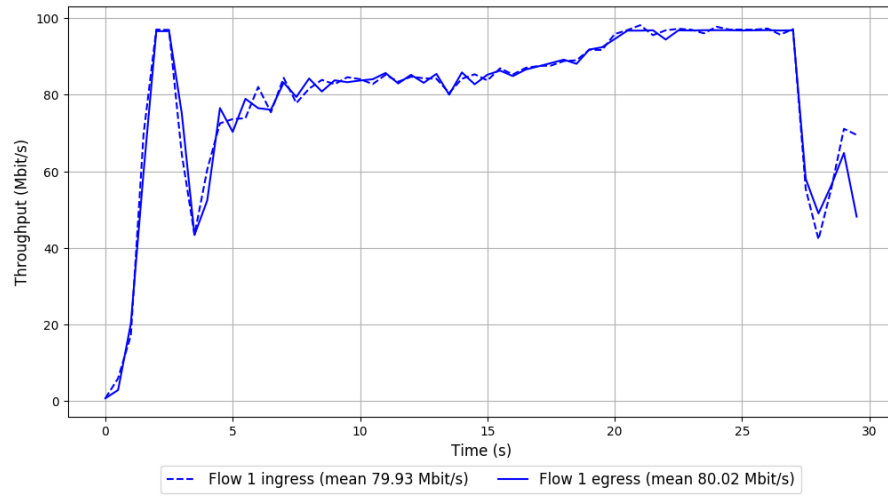


Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 07:06:02  
End at: 2018-04-24 07:06:32  
Local clock offset: 3.018 ms  
Remote clock offset: 43.725 ms

# Below is generated by plot.py at 2018-04-24 12:24:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.02 Mbit/s  
95th percentile per-packet one-way delay: 61.752 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 80.02 Mbit/s  
95th percentile per-packet one-way delay: 61.752 ms  
Loss rate: 0.60%

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



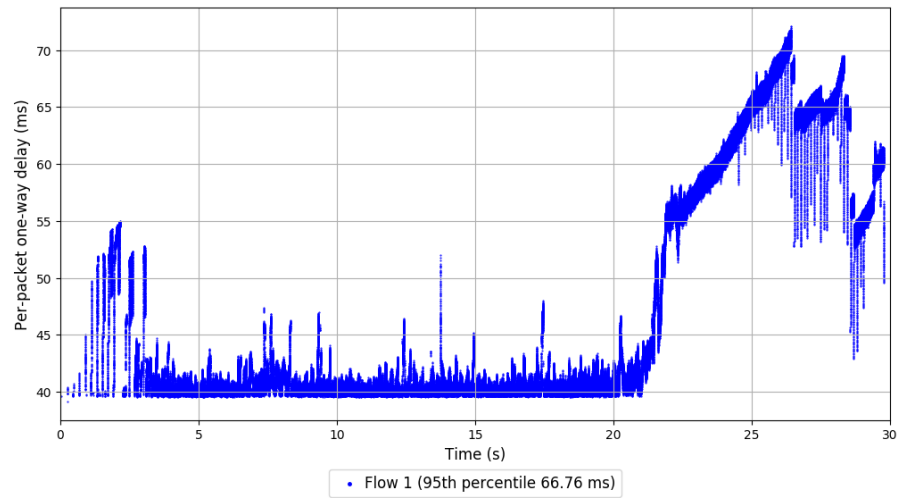
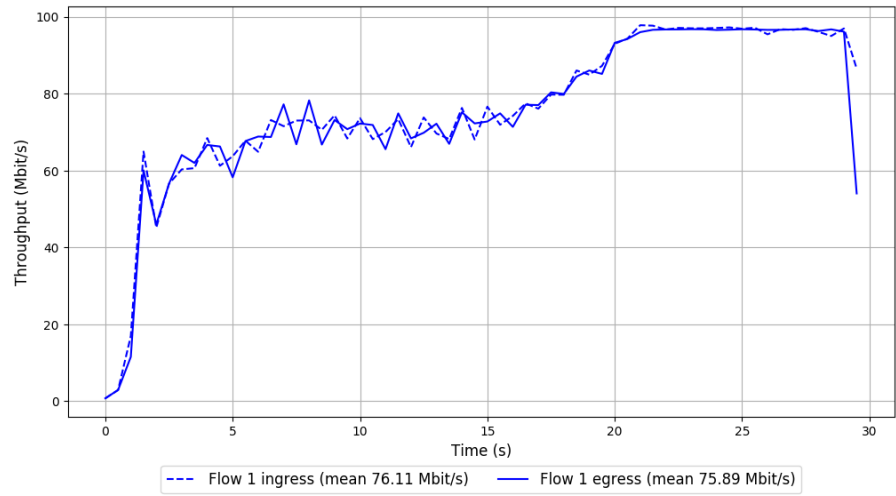
Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 07:33:28  
End at: 2018-04-24 07:33:58  
Local clock offset: -2.962 ms  
Remote clock offset: 11.515 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.89 Mbit/s  
95th percentile per-packet one-way delay: 66.761 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 75.89 Mbit/s  
95th percentile per-packet one-way delay: 66.761 ms  
Loss rate: 0.97%



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

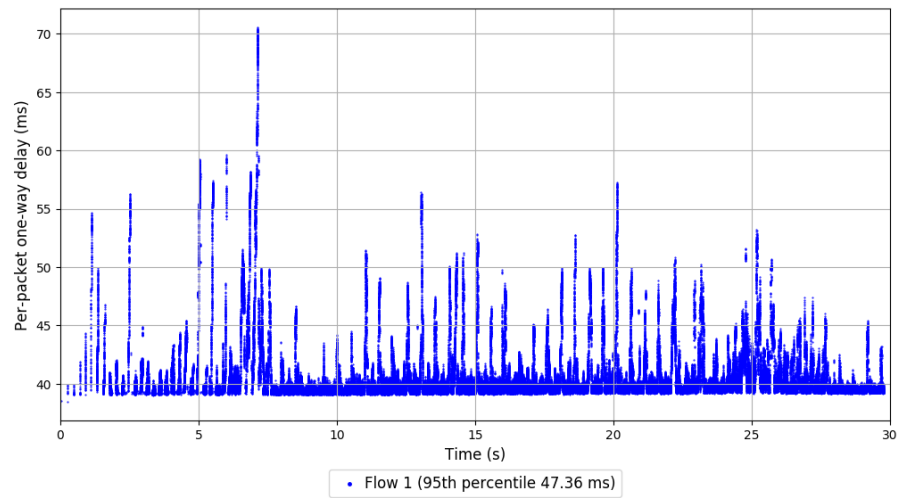
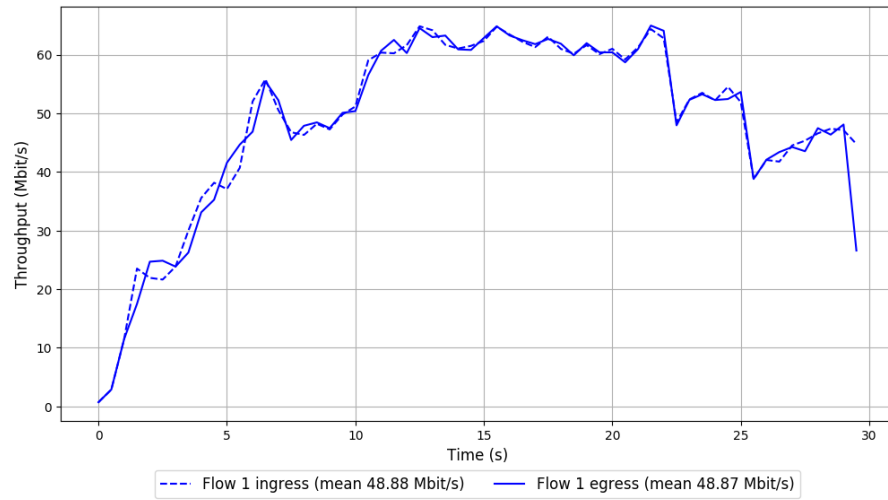


Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 07:54:42  
End at: 2018-04-24 07:55:12  
Local clock offset: -6.234 ms  
Remote clock offset: 26.095 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 48.87 Mbit/s  
95th percentile per-packet one-way delay: 47.356 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 48.87 Mbit/s  
95th percentile per-packet one-way delay: 47.356 ms  
Loss rate: 0.77%

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

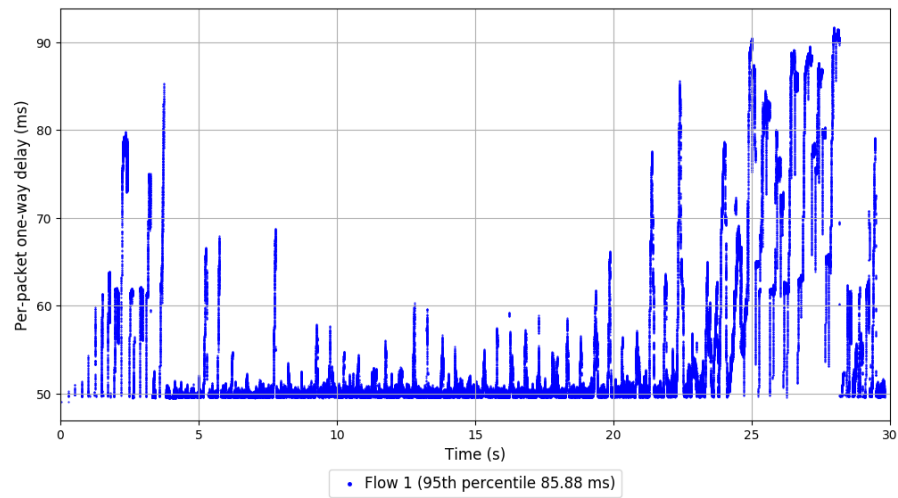
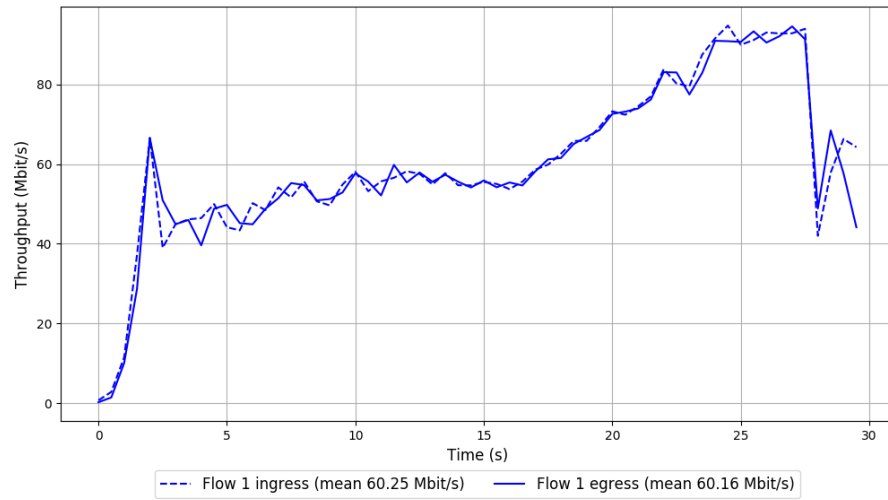


Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 08:16:12  
End at: 2018-04-24 08:16:42  
Local clock offset: -1.545 ms  
Remote clock offset: 22.449 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 60.16 Mbit/s  
95th percentile per-packet one-way delay: 85.877 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 60.16 Mbit/s  
95th percentile per-packet one-way delay: 85.877 ms  
Loss rate: 0.81%

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

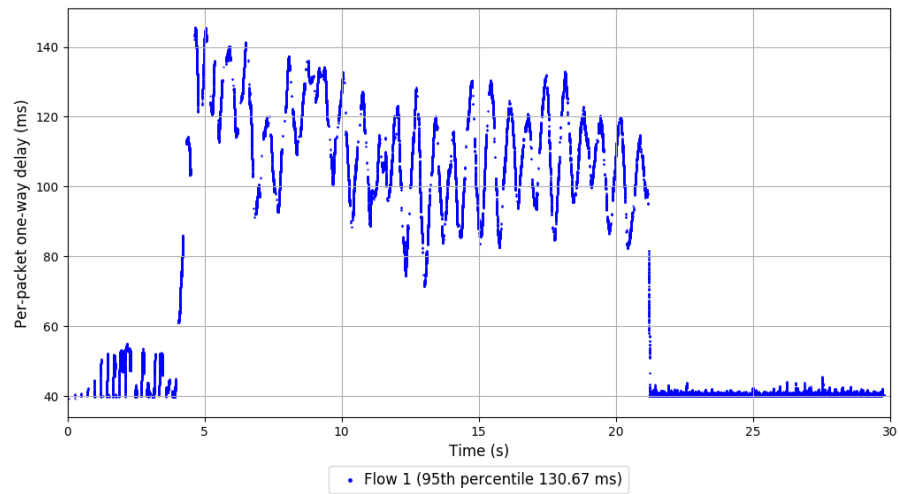
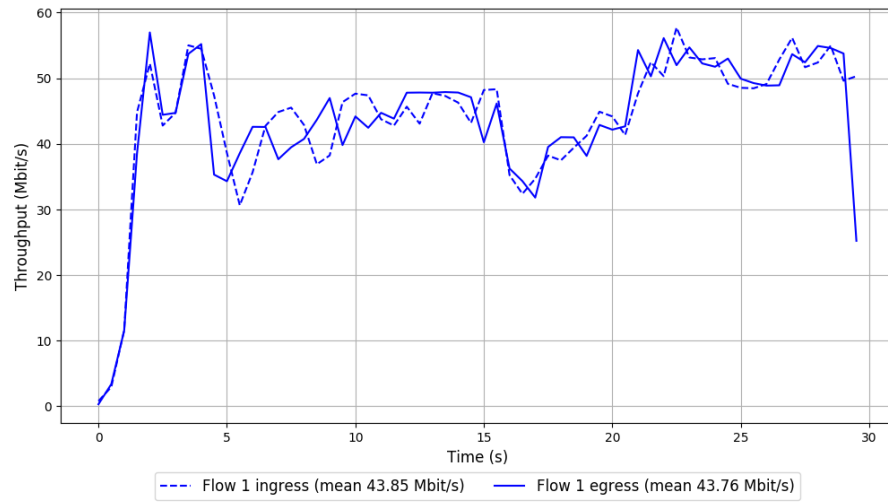


Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 08:38:07  
End at: 2018-04-24 08:38:37  
Local clock offset: -3.124 ms  
Remote clock offset: 21.018 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 43.76 Mbit/s  
95th percentile per-packet one-way delay: 130.667 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 43.76 Mbit/s  
95th percentile per-packet one-way delay: 130.667 ms  
Loss rate: 0.99%

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



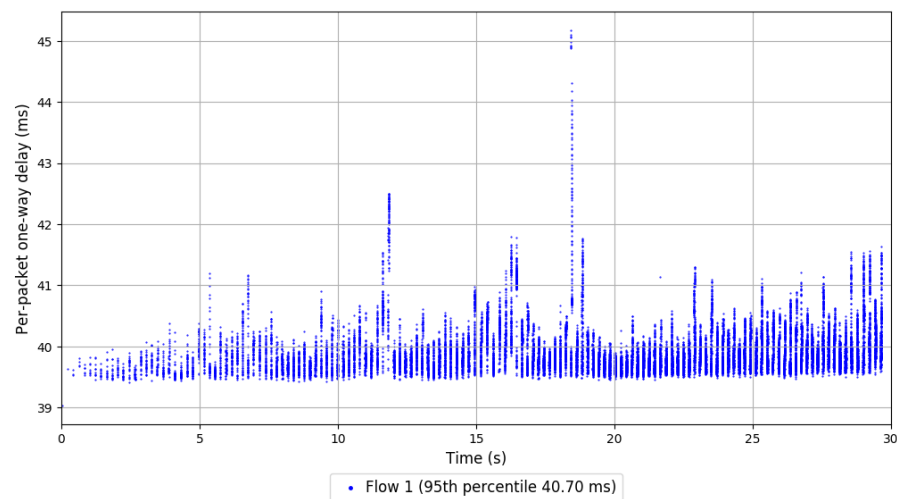
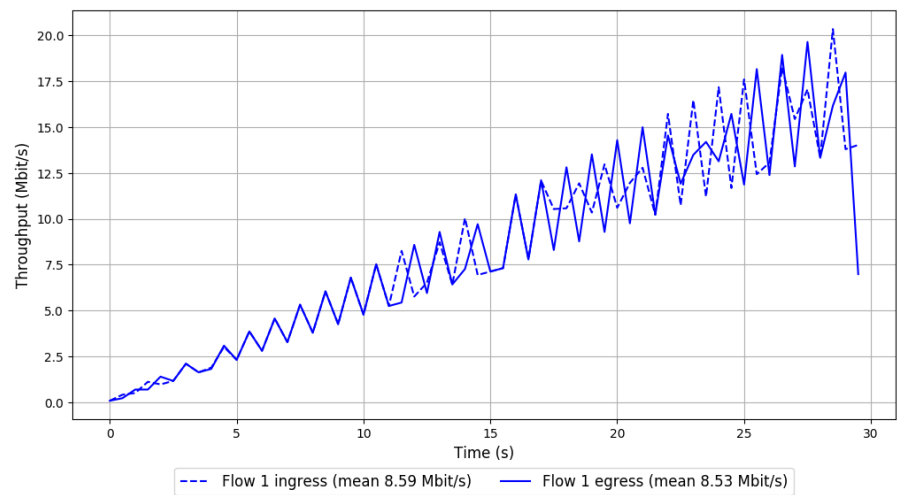
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 05:15:59  
End at: 2018-04-24 05:16:29  
Local clock offset: -3.357 ms  
Remote clock offset: -1.296 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 40.703 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 40.703 ms  
Loss rate: 1.37%



Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-24 05:37:13

End at: 2018-04-24 05:37:43

Local clock offset: -1.337 ms

Remote clock offset: 0.644 ms

# Below is generated by plot.py at 2018-04-24 12:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 40.300 ms

Loss rate: 1.42%

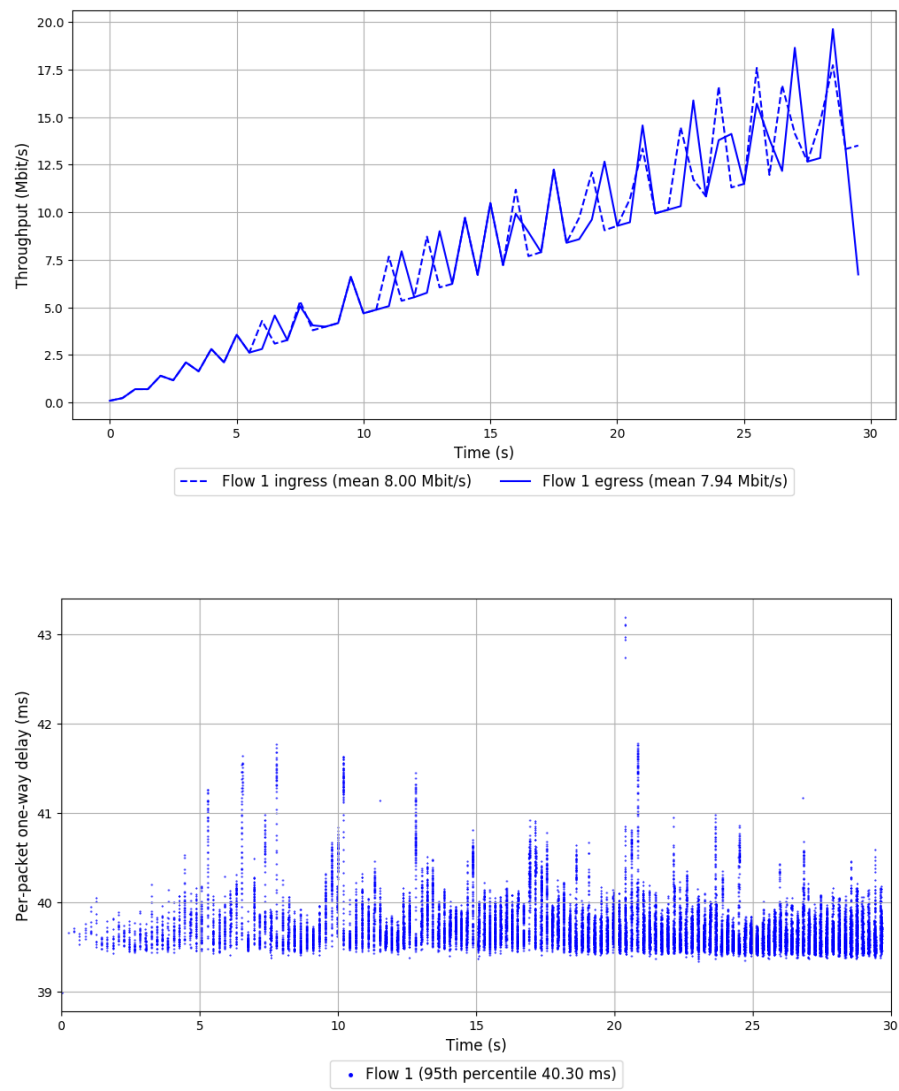
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 40.300 ms

Loss rate: 1.42%

Run 2: Report of LEDBAT — Data Link

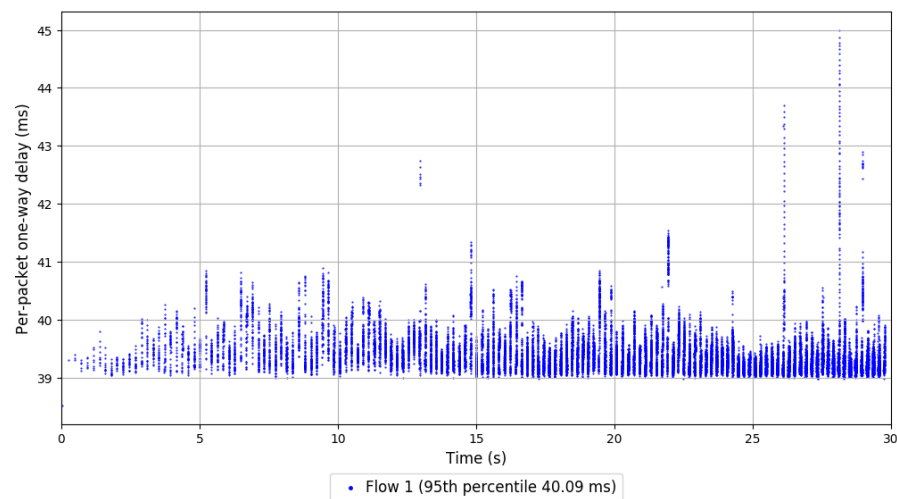
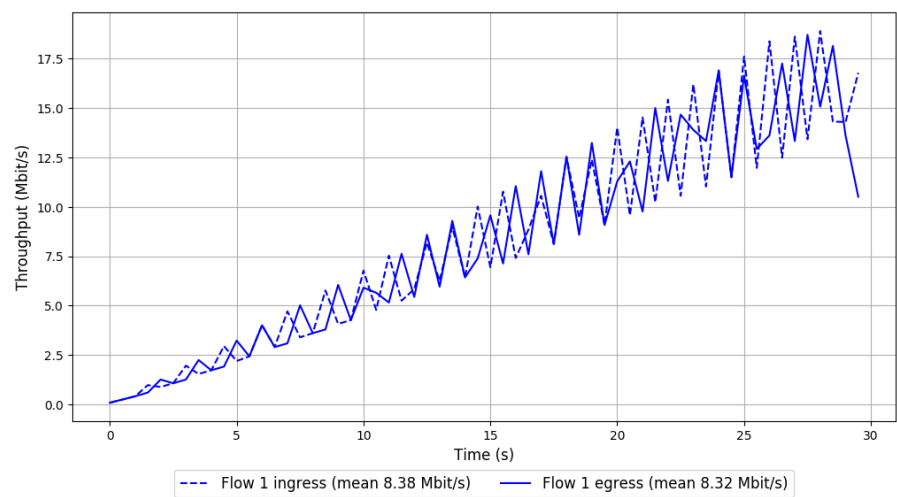


Run 3: Statistics of LEDBAT

Start at: 2018-04-24 05:58:37  
End at: 2018-04-24 05:59:07  
Local clock offset: 1.756 ms  
Remote clock offset: -1.364 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.32 Mbit/s  
95th percentile per-packet one-way delay: 40.091 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 8.32 Mbit/s  
95th percentile per-packet one-way delay: 40.091 ms  
Loss rate: 1.38%

Run 3: Report of LEDBAT — Data Link

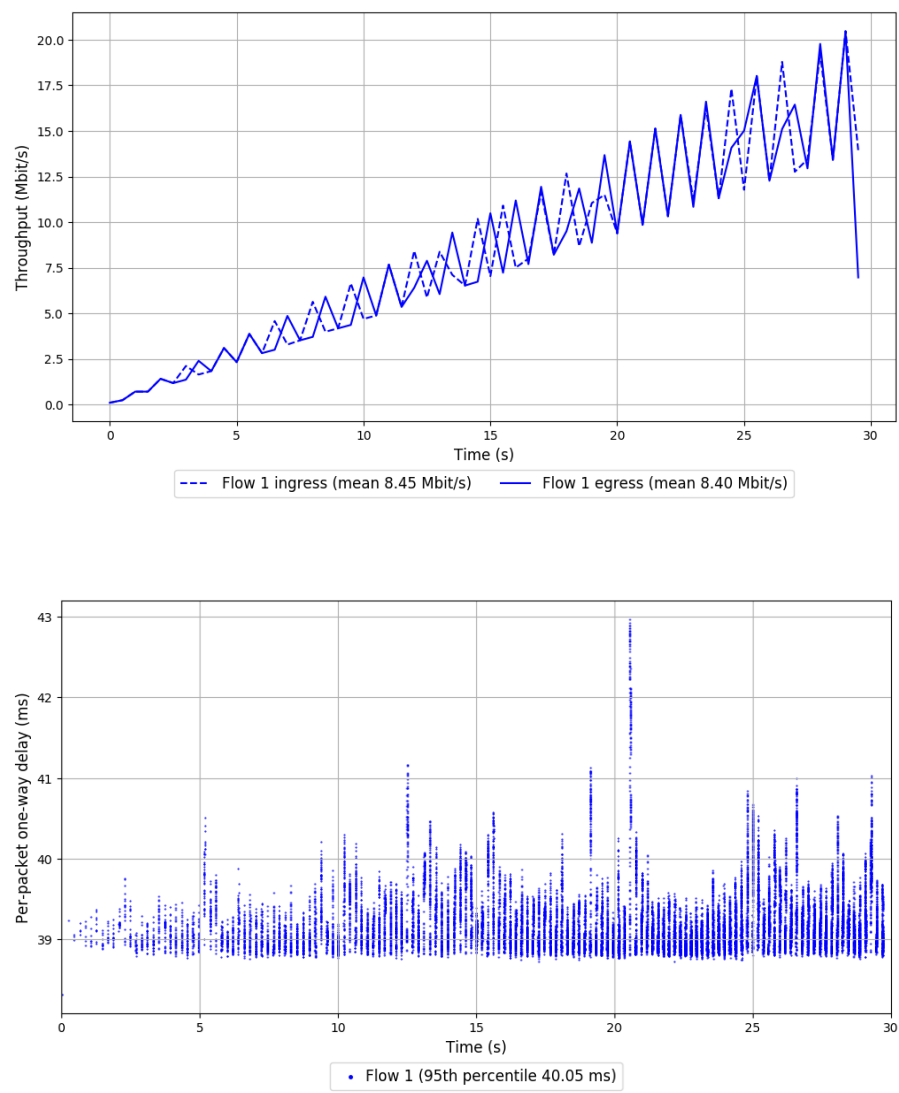


Run 4: Statistics of LEDBAT

Start at: 2018-04-24 06:19:50  
End at: 2018-04-24 06:20:20  
Local clock offset: 2.606 ms  
Remote clock offset: -12.037 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.40 Mbit/s  
95th percentile per-packet one-way delay: 40.046 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 8.40 Mbit/s  
95th percentile per-packet one-way delay: 40.046 ms  
Loss rate: 1.38%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-24 06:41:08

End at: 2018-04-24 06:41:38

Local clock offset: 3.498 ms

Remote clock offset: 8.489 ms

# Below is generated by plot.py at 2018-04-24 12:25:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 49.330 ms

Loss rate: 1.49%

-- Flow 1:

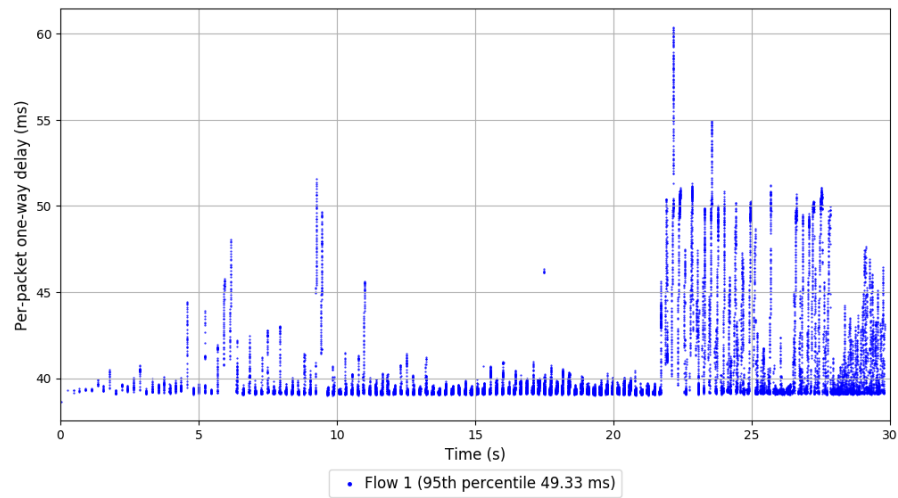
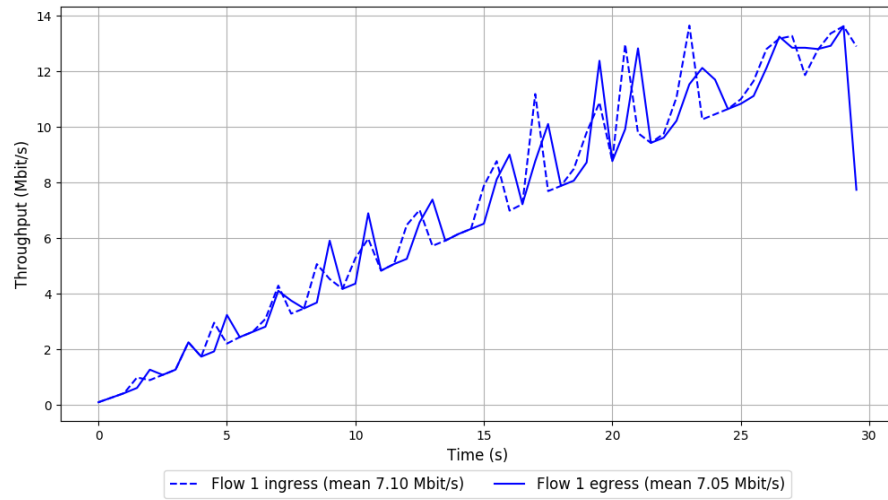
Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 49.330 ms

Loss rate: 1.49%



## Run 5: Report of LEDBAT — Data Link

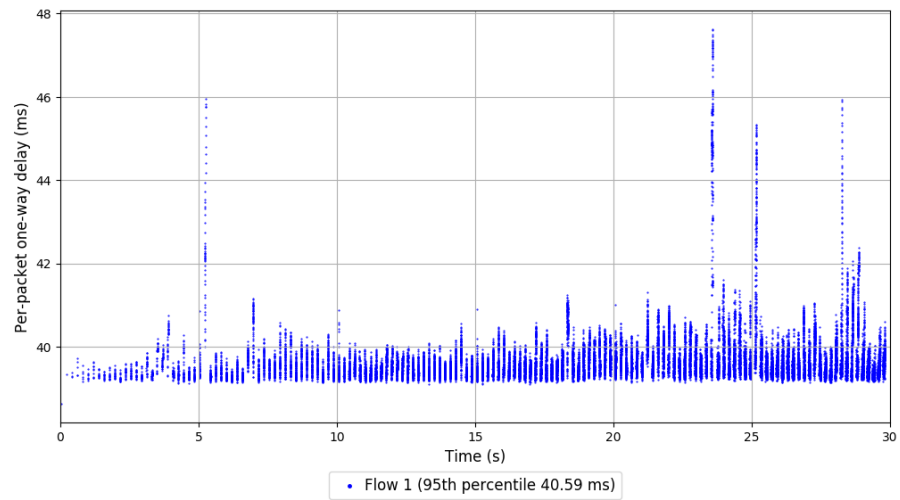
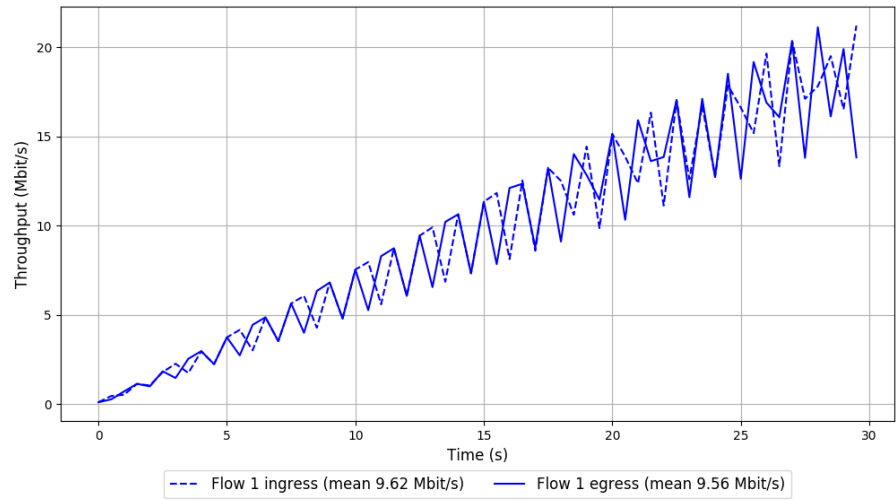


Run 6: Statistics of LEDBAT

Start at: 2018-04-24 07:02:25  
End at: 2018-04-24 07:02:55  
Local clock offset: 3.059 ms  
Remote clock offset: 43.534 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 40.590 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 40.590 ms  
Loss rate: 1.28%

## Run 6: Report of LEDBAT — Data Link

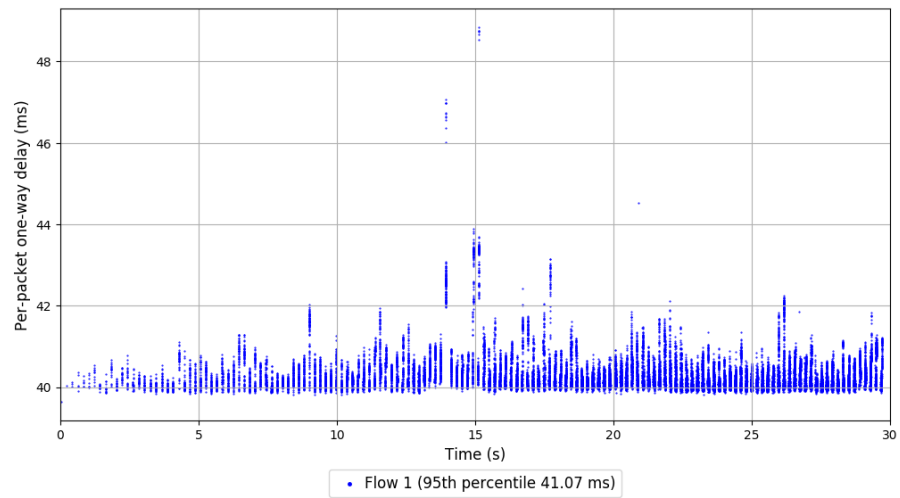
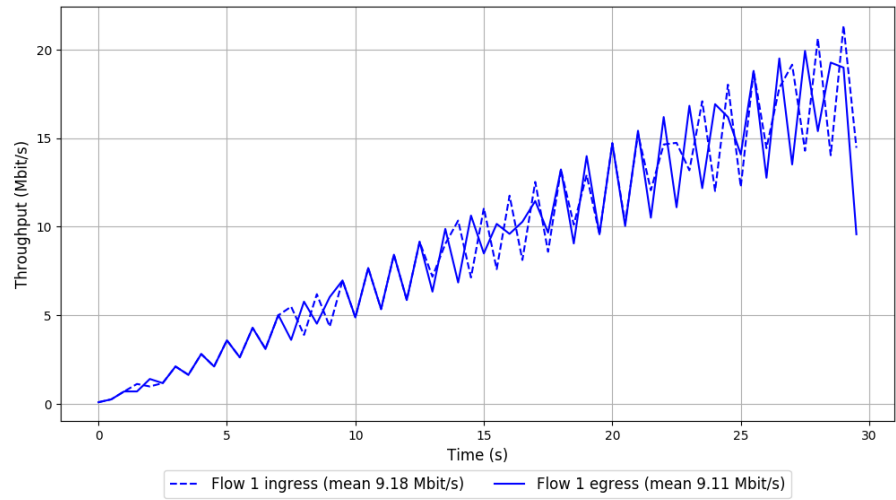


Run 7: Statistics of LEDBAT

Start at: 2018-04-24 07:28:44  
End at: 2018-04-24 07:29:14  
Local clock offset: -1.217 ms  
Remote clock offset: 12.664 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.11 Mbit/s  
95th percentile per-packet one-way delay: 41.066 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 9.11 Mbit/s  
95th percentile per-packet one-way delay: 41.066 ms  
Loss rate: 1.32%

## Run 7: Report of LEDBAT — Data Link

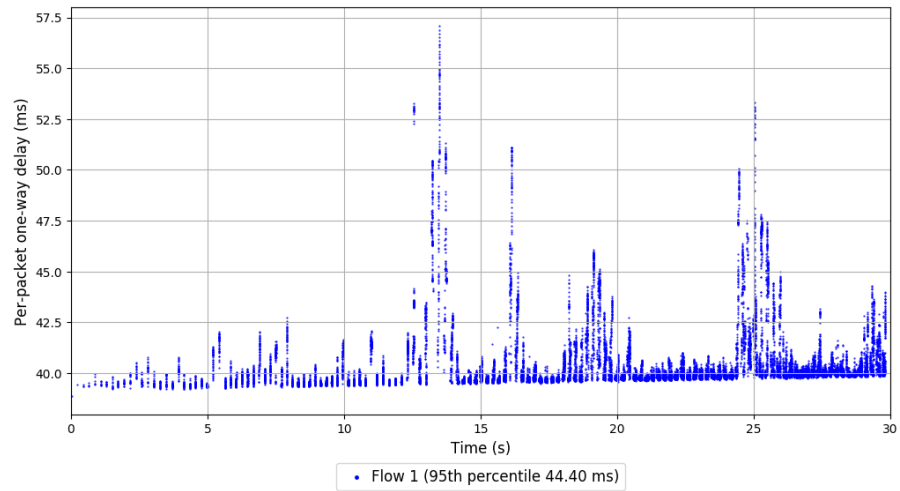
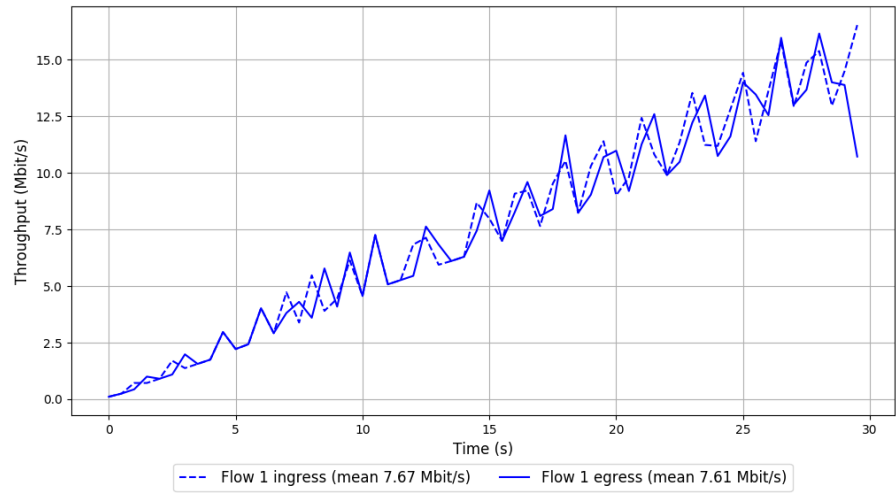


Run 8: Statistics of LEDBAT

Start at: 2018-04-24 07:51:03  
End at: 2018-04-24 07:51:33  
Local clock offset: -5.902 ms  
Remote clock offset: 21.893 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.61 Mbit/s  
95th percentile per-packet one-way delay: 44.404 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 7.61 Mbit/s  
95th percentile per-packet one-way delay: 44.404 ms  
Loss rate: 1.44%

## Run 8: Report of LEDBAT — Data Link



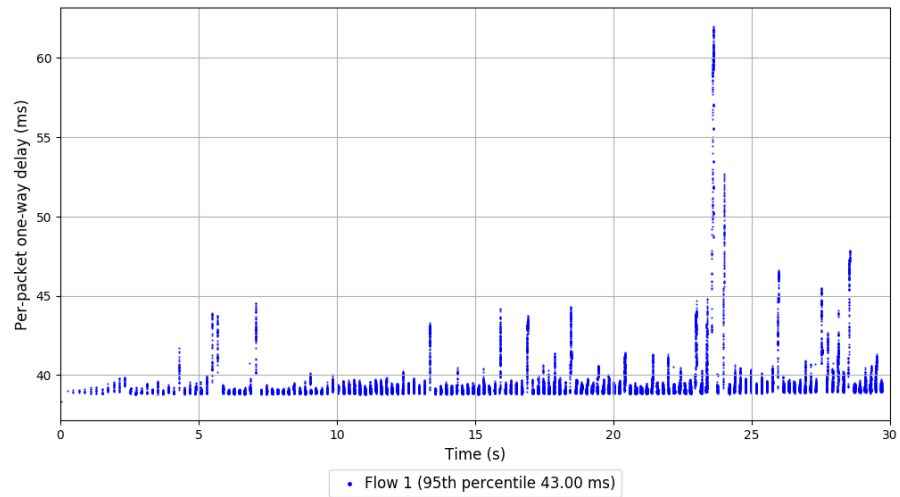
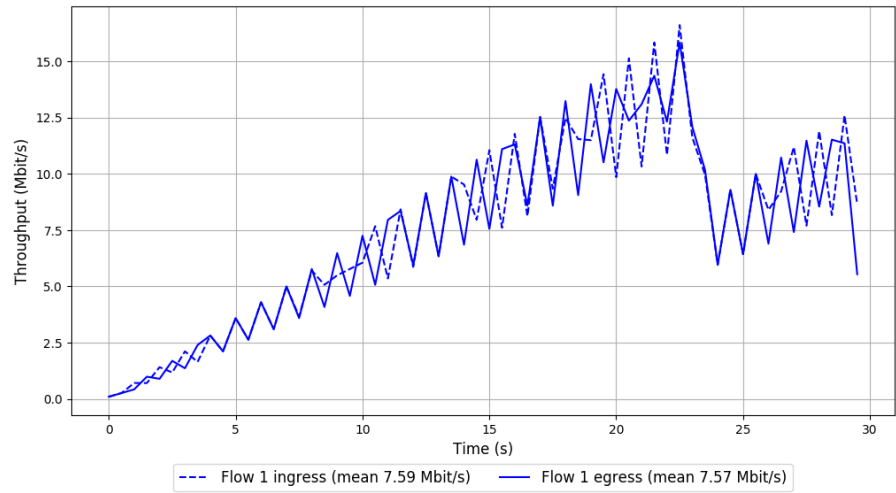
Run 9: Statistics of LEDBAT

Start at: 2018-04-24 08:12:34  
End at: 2018-04-24 08:13:04  
Local clock offset: -1.829 ms  
Remote clock offset: 34.437 ms

# Below is generated by plot.py at 2018-04-24 12:25:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.57 Mbit/s  
95th percentile per-packet one-way delay: 43.003 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 7.57 Mbit/s  
95th percentile per-packet one-way delay: 43.003 ms  
Loss rate: 0.98%



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



Run 10: Statistics of LEDBAT

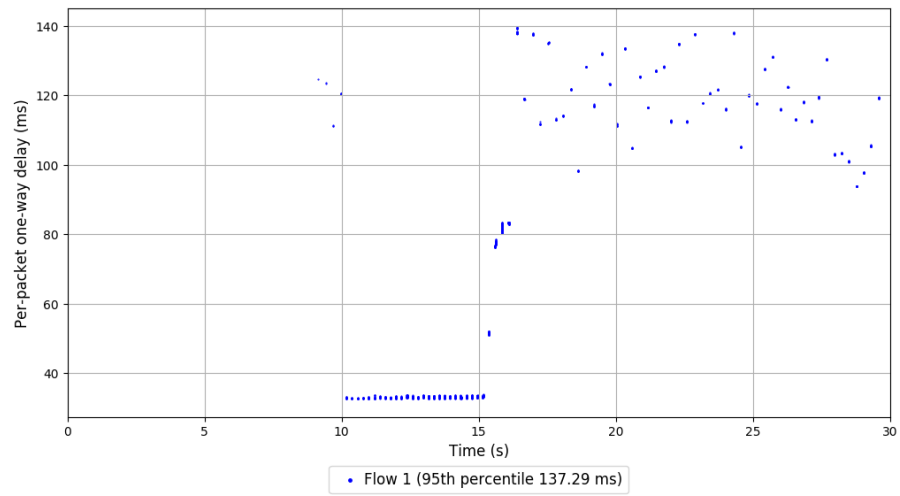
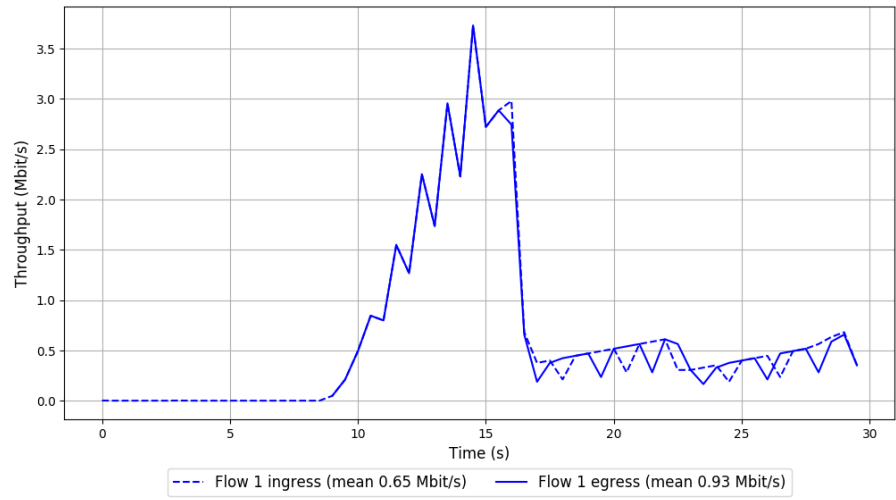
Start at: 2018-04-24 08:34:25

End at: 2018-04-24 08:34:55

Local clock offset: -2.483 ms

Remote clock offset: 25.936 ms

## Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 05:05:44

End at: 2018-04-24 05:06:14

Local clock offset: -2.675 ms

Remote clock offset: -1.355 ms

# Below is generated by plot.py at 2018-04-24 12:25:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.39 Mbit/s

95th percentile per-packet one-way delay: 44.519 ms

Loss rate: 4.05%

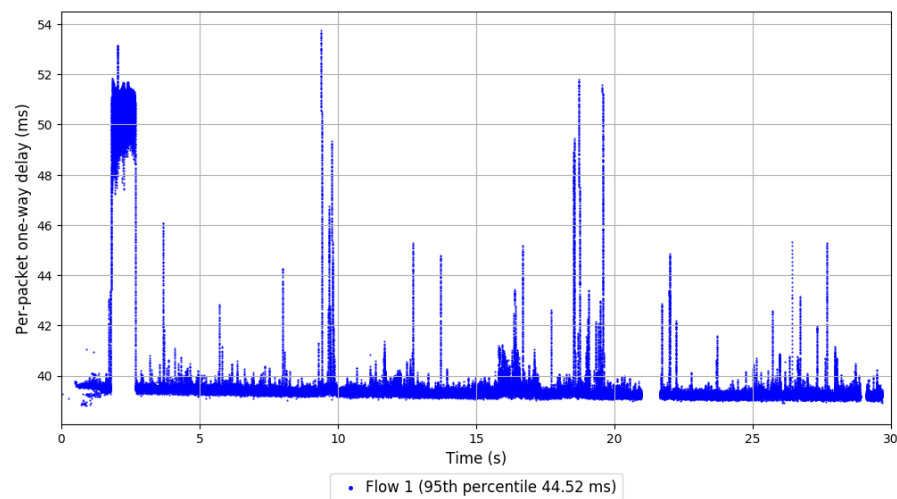
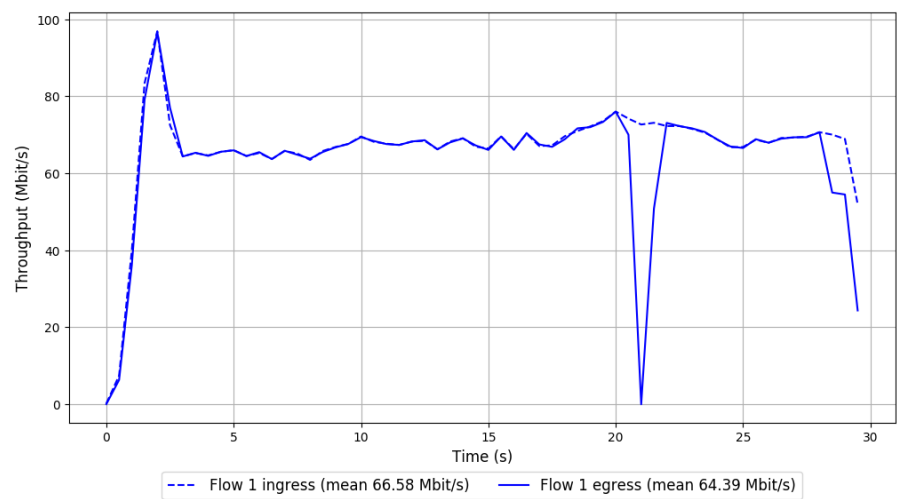
-- Flow 1:

Average throughput: 64.39 Mbit/s

95th percentile per-packet one-way delay: 44.519 ms

Loss rate: 4.05%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 05:27:10

End at: 2018-04-24 05:27:40

Local clock offset: -2.008 ms

Remote clock offset: -1.142 ms

# Below is generated by plot.py at 2018-04-24 12:25:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 42.223 ms

Loss rate: 0.67%

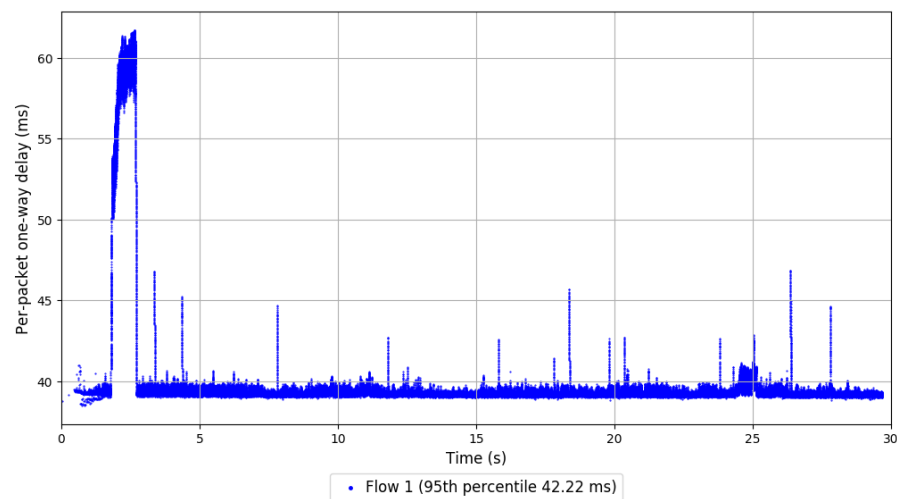
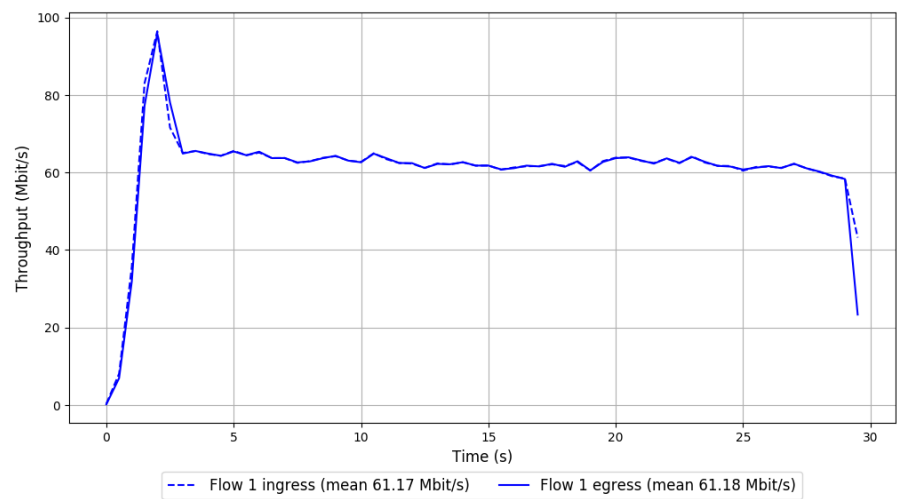
-- Flow 1:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 42.223 ms

Loss rate: 0.67%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 05:48:27

End at: 2018-04-24 05:48:57

Local clock offset: 0.907 ms

Remote clock offset: 2.033 ms

# Below is generated by plot.py at 2018-04-24 12:25:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.10 Mbit/s

95th percentile per-packet one-way delay: 42.978 ms

Loss rate: 0.77%

-- Flow 1:

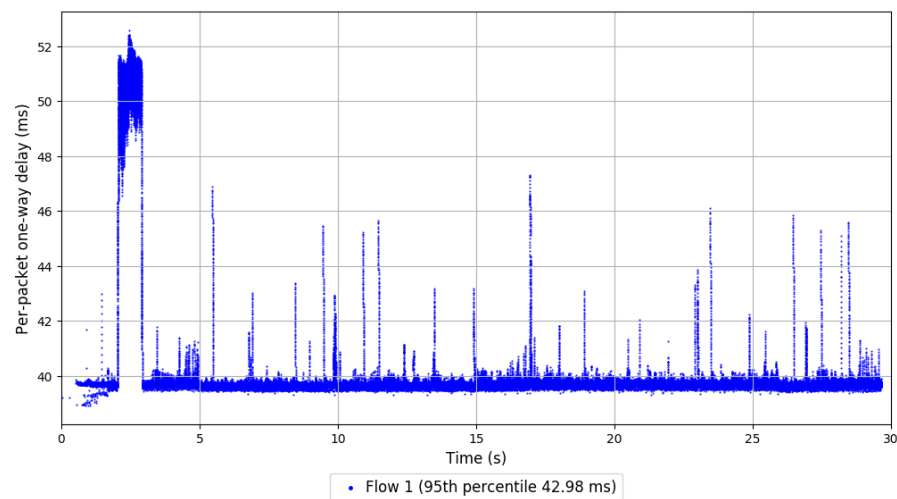
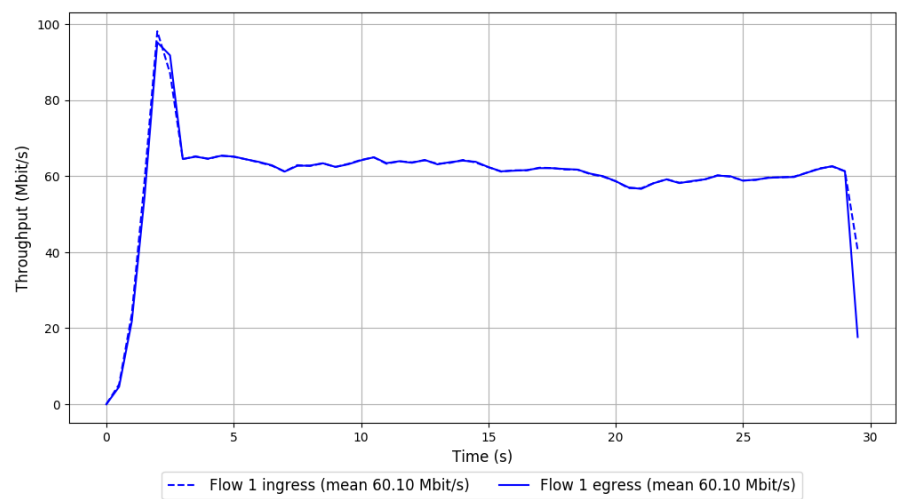
Average throughput: 60.10 Mbit/s

95th percentile per-packet one-way delay: 42.978 ms

Loss rate: 0.77%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 06:09:47

End at: 2018-04-24 06:10:17

Local clock offset: 2.392 ms

Remote clock offset: 30.792 ms

# Below is generated by plot.py at 2018-04-24 12:26:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 75.530 ms

Loss rate: 0.95%

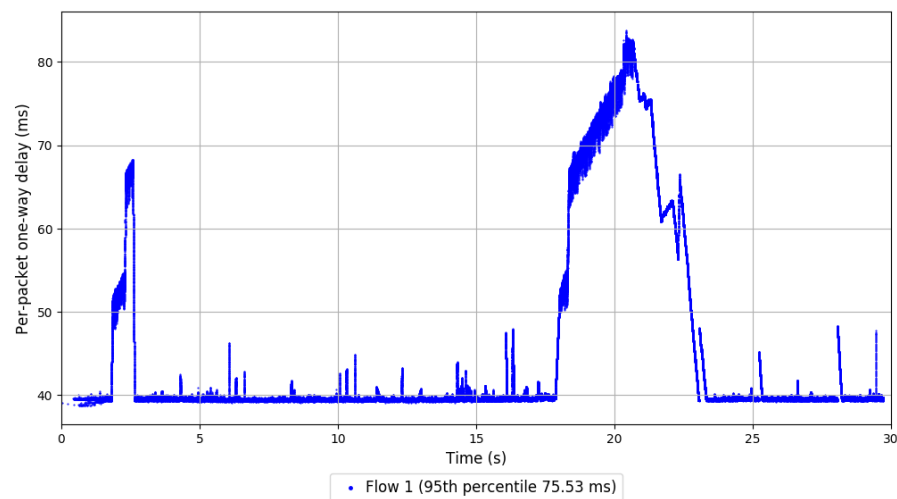
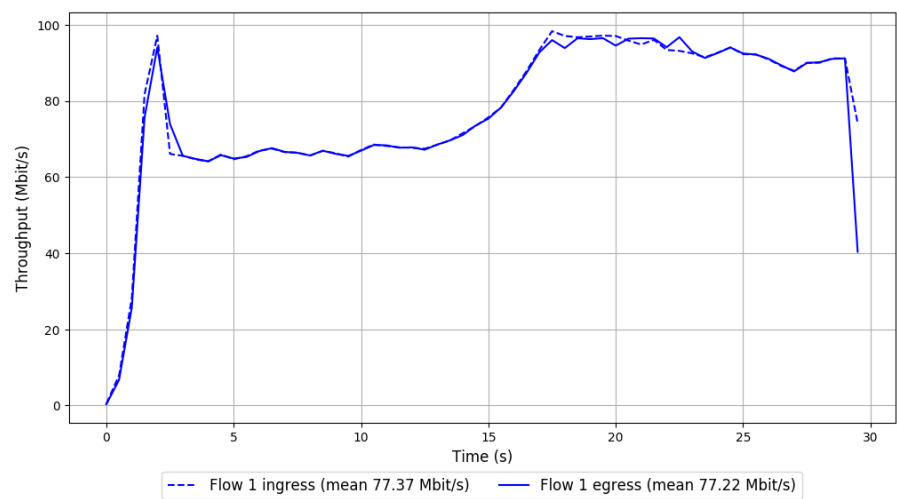
-- Flow 1:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 75.530 ms

Loss rate: 0.95%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 06:31:02

End at: 2018-04-24 06:31:32

Local clock offset: 3.149 ms

Remote clock offset: -11.419 ms

# Below is generated by plot.py at 2018-04-24 12:26:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.99 Mbit/s

95th percentile per-packet one-way delay: 40.526 ms

Loss rate: 0.75%

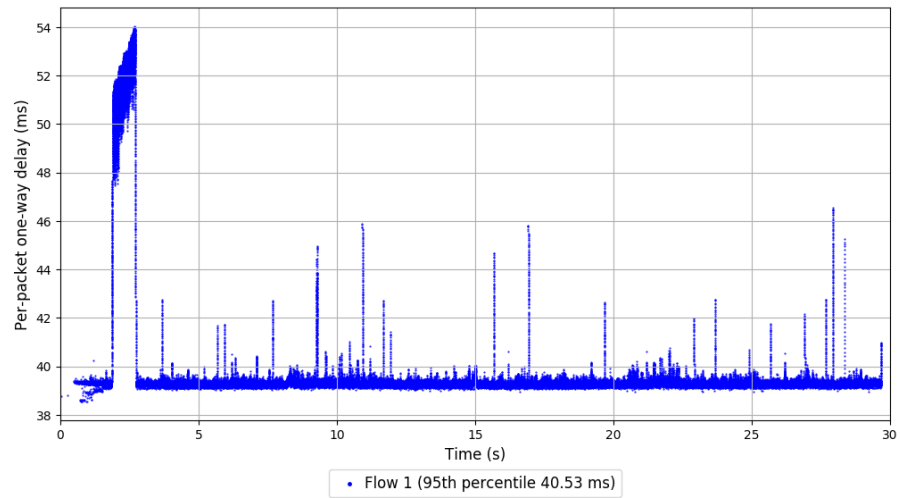
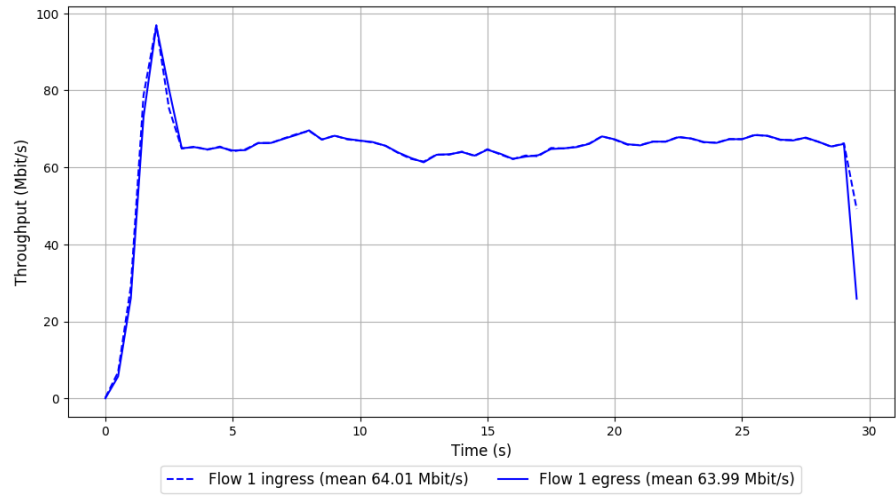
-- Flow 1:

Average throughput: 63.99 Mbit/s

95th percentile per-packet one-way delay: 40.526 ms

Loss rate: 0.75%

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

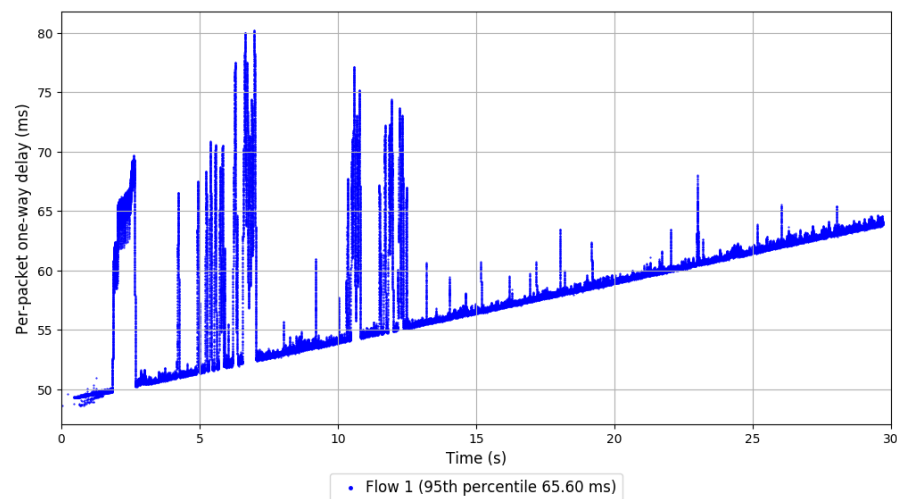
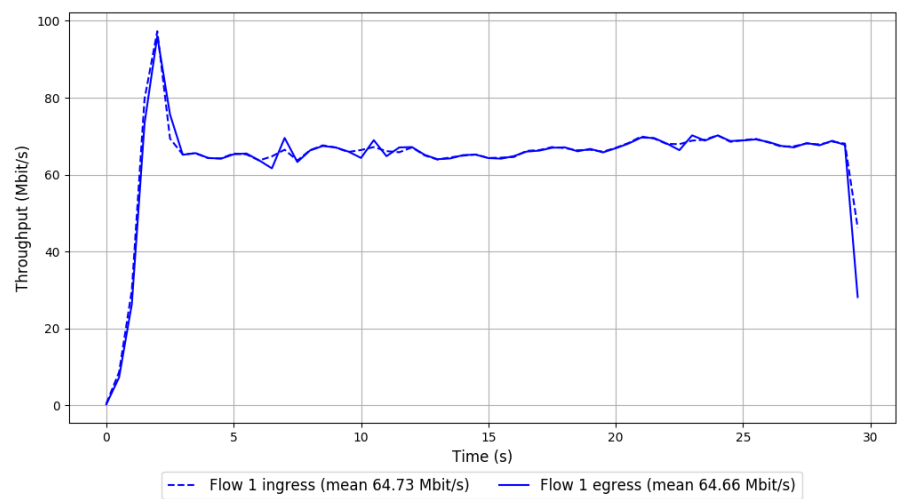


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 06:52:19  
End at: 2018-04-24 06:52:50  
Local clock offset: 3.337 ms  
Remote clock offset: 12.176 ms

# Below is generated by plot.py at 2018-04-24 12:26:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 64.66 Mbit/s  
95th percentile per-packet one-way delay: 65.597 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 64.66 Mbit/s  
95th percentile per-packet one-way delay: 65.597 ms  
Loss rate: 0.70%

Run 6: Report of PCC-Allegro — Data Link



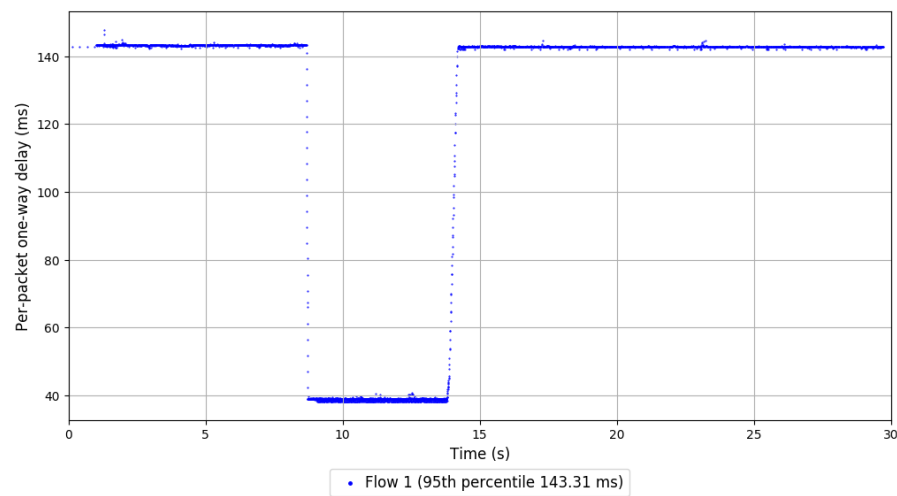
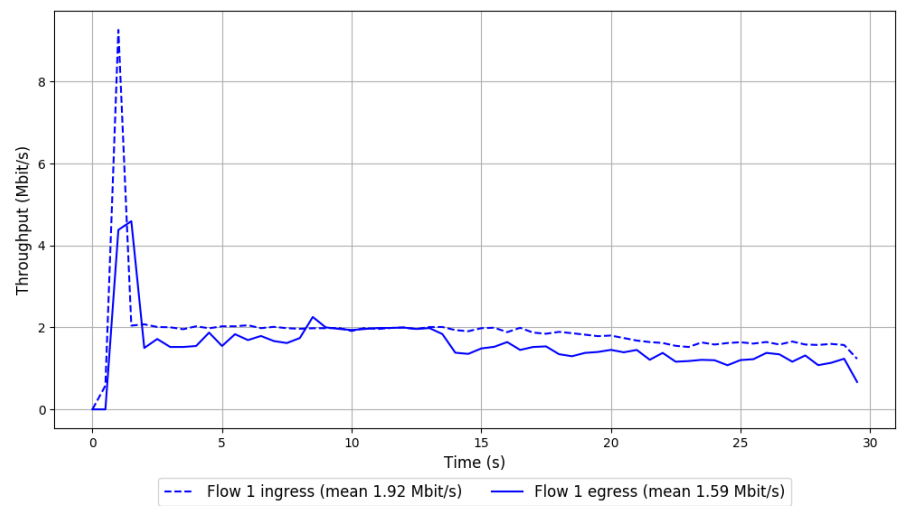
Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 07:13:36  
End at: 2018-04-24 07:14:06  
Local clock offset: 3.015 ms  
Remote clock offset: 44.122 ms

# Below is generated by plot.py at 2018-04-24 12:26:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.59 Mbit/s  
95th percentile per-packet one-way delay: 143.306 ms  
Loss rate: 17.77%  
-- Flow 1:  
Average throughput: 1.59 Mbit/s  
95th percentile per-packet one-way delay: 143.306 ms  
Loss rate: 17.77%



Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 07:40:58

End at: 2018-04-24 07:41:28

Local clock offset: -4.406 ms

Remote clock offset: 10.261 ms

# Below is generated by plot.py at 2018-04-24 12:26:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.11 Mbit/s

95th percentile per-packet one-way delay: 42.716 ms

Loss rate: 0.74%

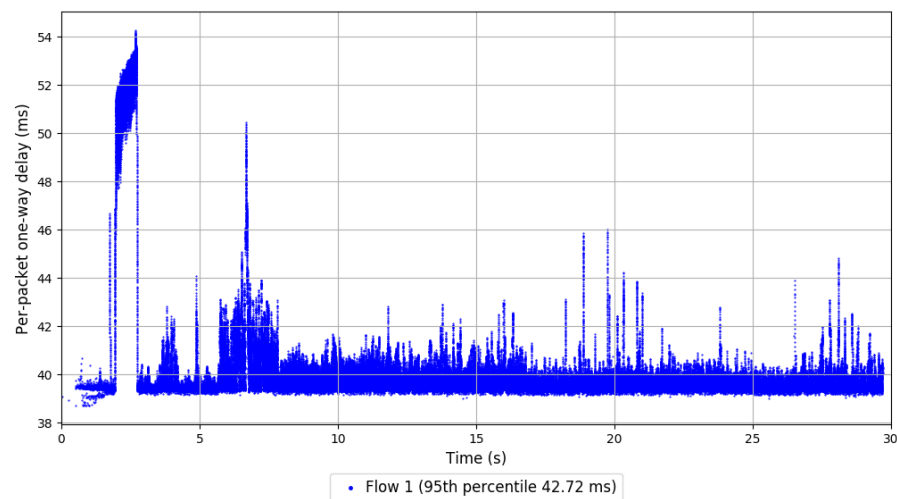
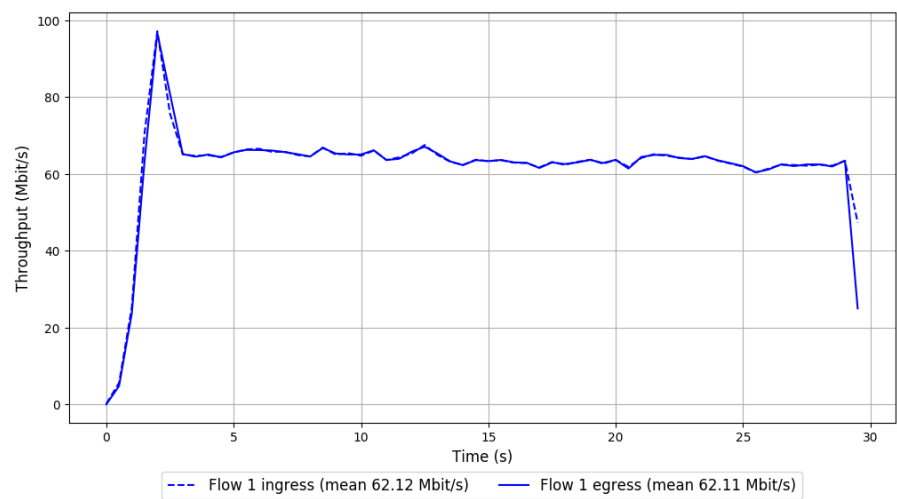
-- Flow 1:

Average throughput: 62.11 Mbit/s

95th percentile per-packet one-way delay: 42.716 ms

Loss rate: 0.74%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 08:02:14

End at: 2018-04-24 08:02:44

Local clock offset: -3.113 ms

Remote clock offset: 30.909 ms

# Below is generated by plot.py at 2018-04-24 12:26:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.46 Mbit/s

95th percentile per-packet one-way delay: 49.723 ms

Loss rate: 0.75%

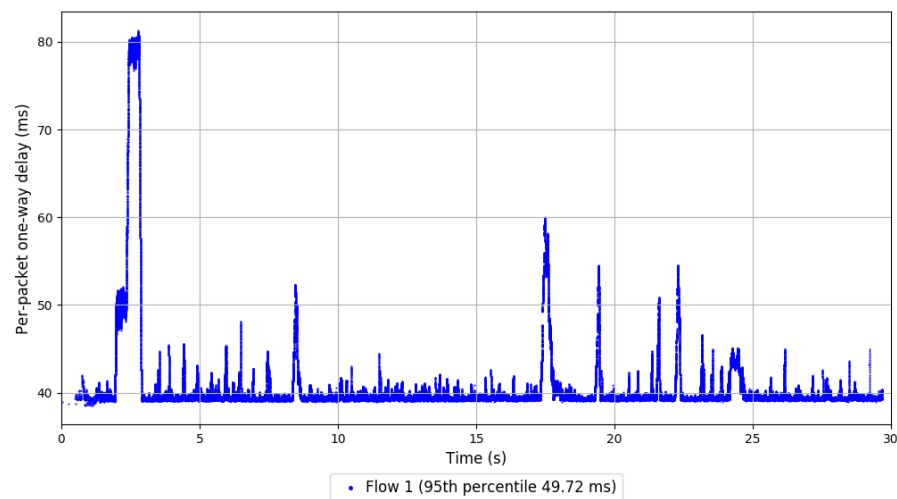
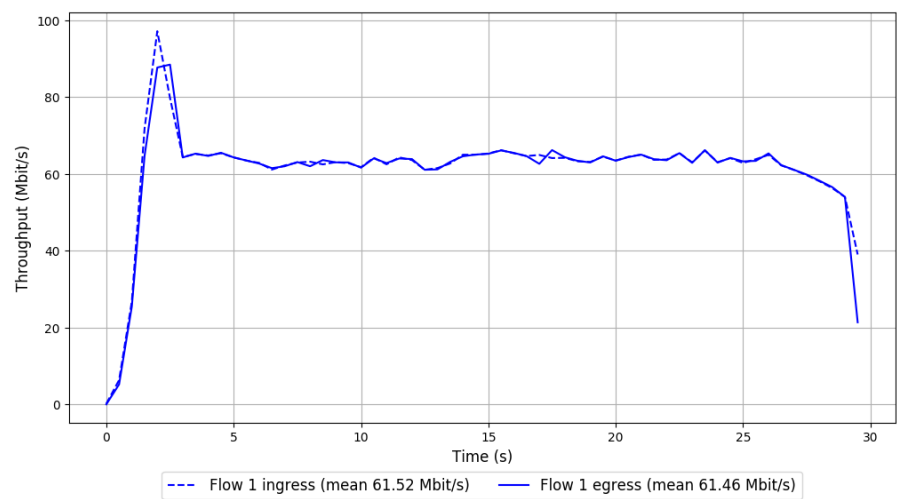
-- Flow 1:

Average throughput: 61.46 Mbit/s

95th percentile per-packet one-way delay: 49.723 ms

Loss rate: 0.75%

Run 9: Report of PCC-Allegro — Data Link

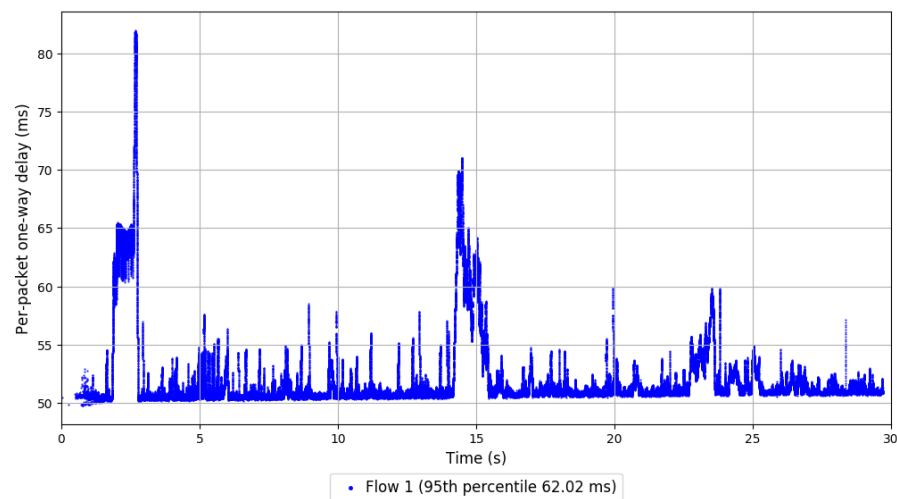
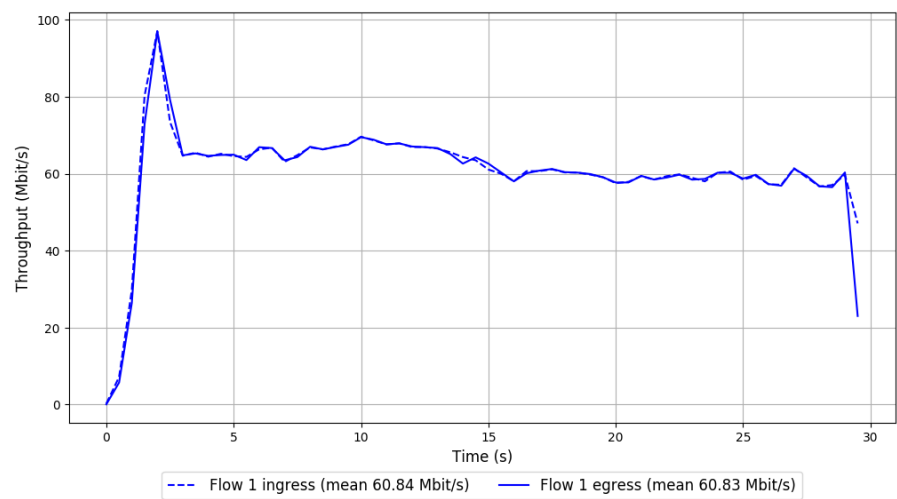


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 08:23:44  
End at: 2018-04-24 08:24:14  
Local clock offset: -1.296 ms  
Remote clock offset: 25.627 ms

# Below is generated by plot.py at 2018-04-24 12:26:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 60.83 Mbit/s  
95th percentile per-packet one-way delay: 62.023 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 60.83 Mbit/s  
95th percentile per-packet one-way delay: 62.023 ms  
Loss rate: 0.83%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 05:07:06

End at: 2018-04-24 05:07:36

Local clock offset: -2.079 ms

Remote clock offset: -1.347 ms

# Below is generated by plot.py at 2018-04-24 12:26:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 39.698 ms

Loss rate: 1.02%

-- Flow 1:

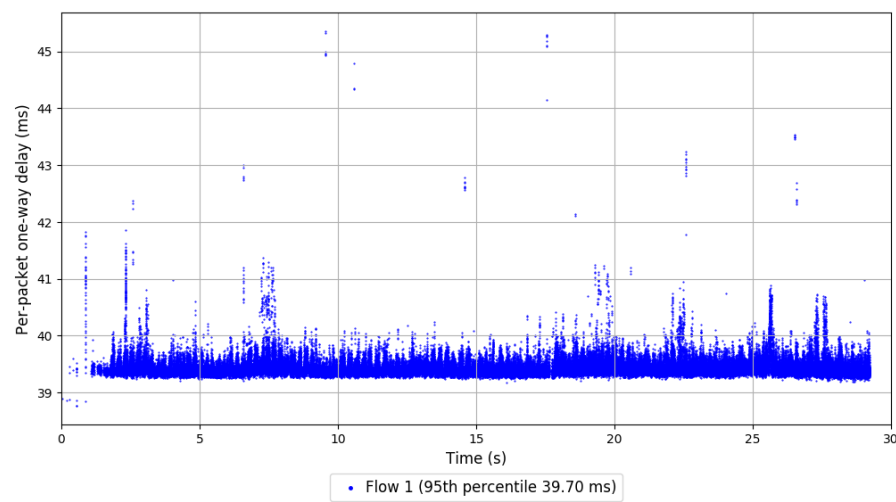
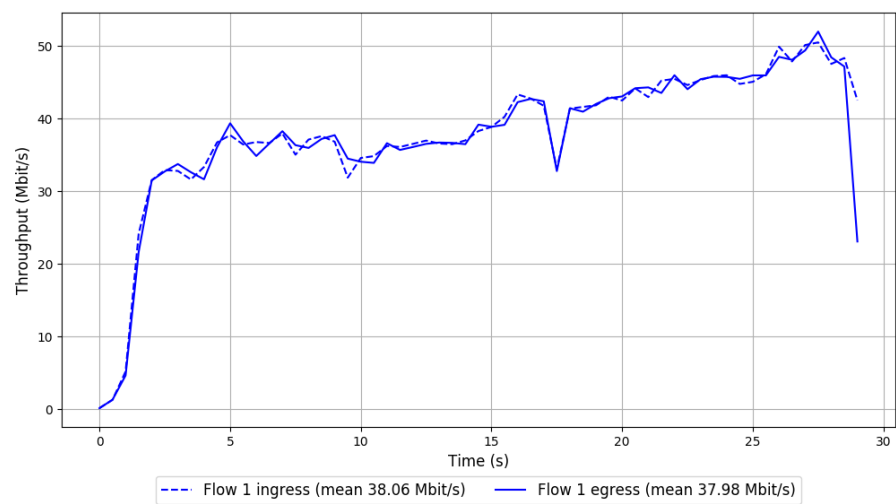
Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 39.698 ms

Loss rate: 1.02%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 05:28:25

End at: 2018-04-24 05:28:55

Local clock offset: -1.881 ms

Remote clock offset: -1.113 ms

# Below is generated by plot.py at 2018-04-24 12:26:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 48.367 ms

Loss rate: 1.20%

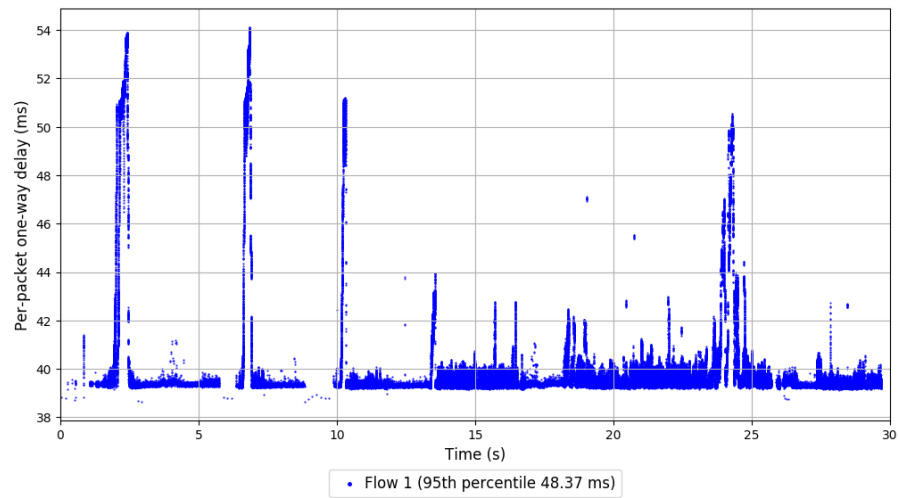
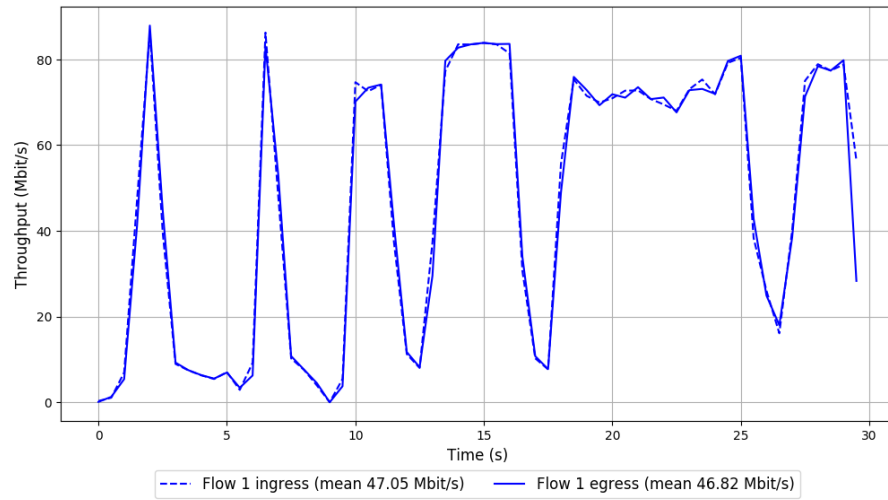
-- Flow 1:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 48.367 ms

Loss rate: 1.20%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 05:49:43

End at: 2018-04-24 05:50:13

Local clock offset: 1.127 ms

Remote clock offset: 2.217 ms

# Below is generated by plot.py at 2018-04-24 12:26:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 39.875 ms

Loss rate: 1.15%

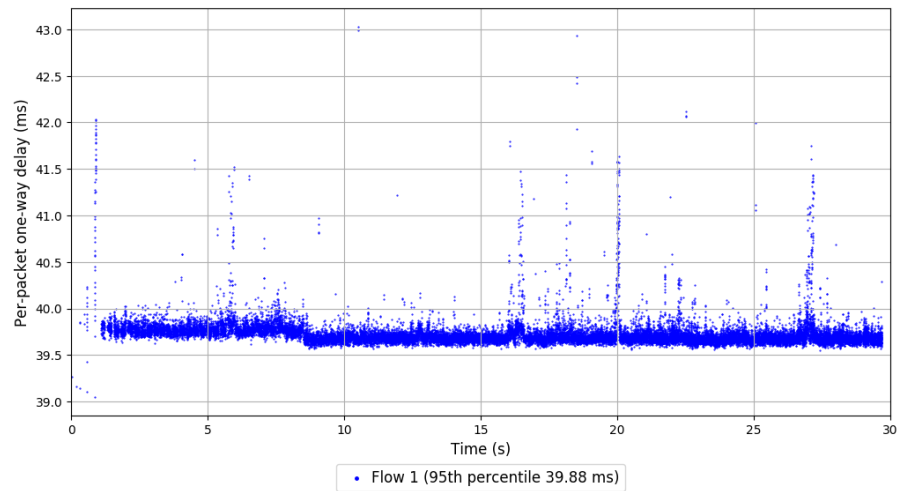
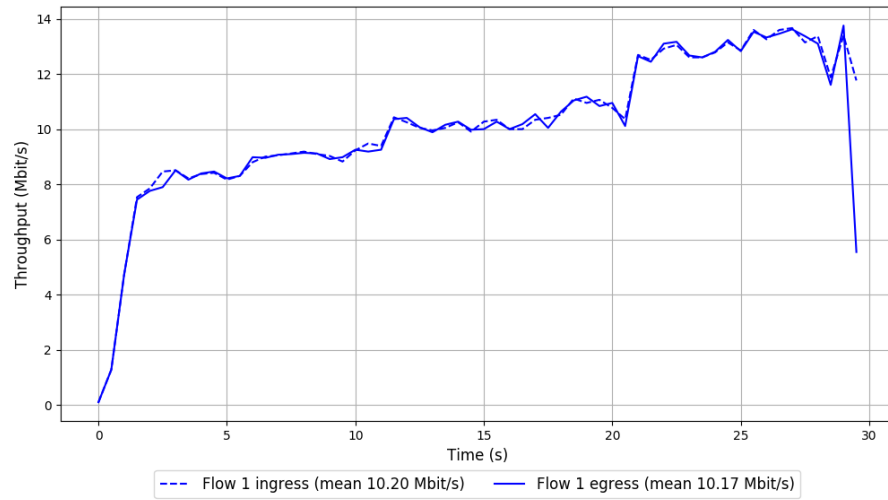
-- Flow 1:

Average throughput: 10.17 Mbit/s

95th percentile per-packet one-way delay: 39.875 ms

Loss rate: 1.15%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 06:11:03

End at: 2018-04-24 06:11:33

Local clock offset: 2.381 ms

Remote clock offset: 30.901 ms

# Below is generated by plot.py at 2018-04-24 12:27:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.41 Mbit/s

95th percentile per-packet one-way delay: 50.342 ms

Loss rate: 1.00%

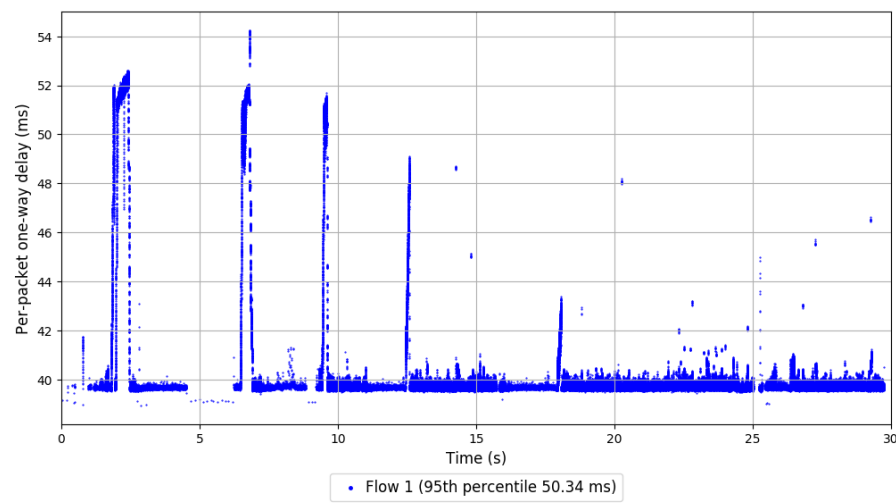
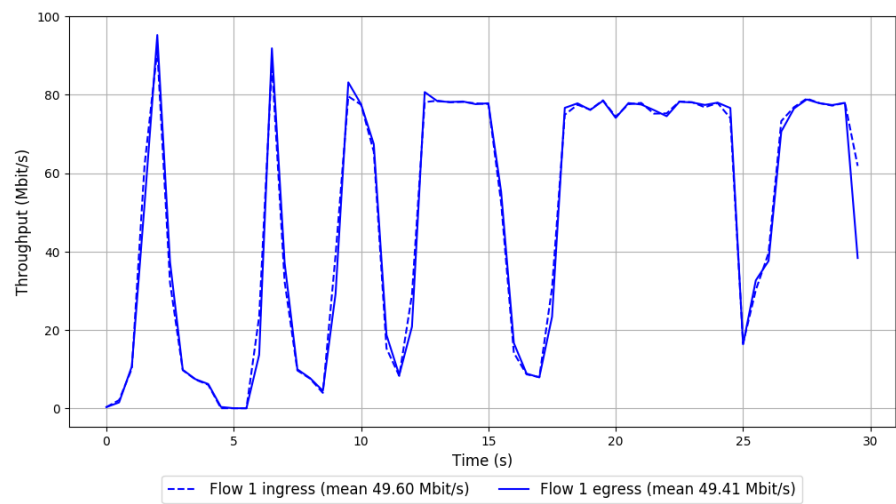
-- Flow 1:

Average throughput: 49.41 Mbit/s

95th percentile per-packet one-way delay: 50.342 ms

Loss rate: 1.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 06:32:17

End at: 2018-04-24 06:32:47

Local clock offset: 3.429 ms

Remote clock offset: -11.19 ms

# Below is generated by plot.py at 2018-04-24 12:27:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 42.24 Mbit/s

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

Loss rate: 0.96%

-- Flow 1:

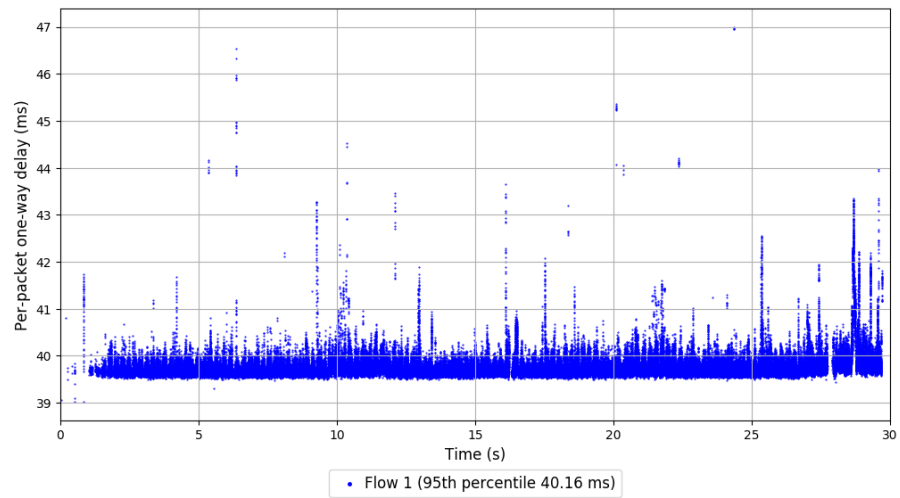
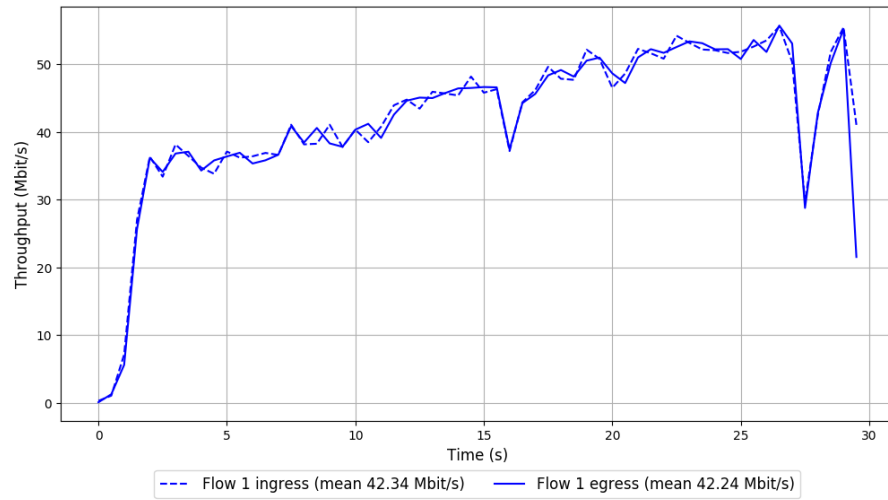
Average throughput: 42.24 Mbit/s

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

Loss rate: 0.96%



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



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 06:53:34

End at: 2018-04-24 06:54:04

Local clock offset: 3.264 ms

Remote clock offset: 42.913 ms

# Below is generated by plot.py at 2018-04-24 12:27:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.08 Mbit/s

95th percentile per-packet one-way delay: 54.380 ms

Loss rate: 0.83%

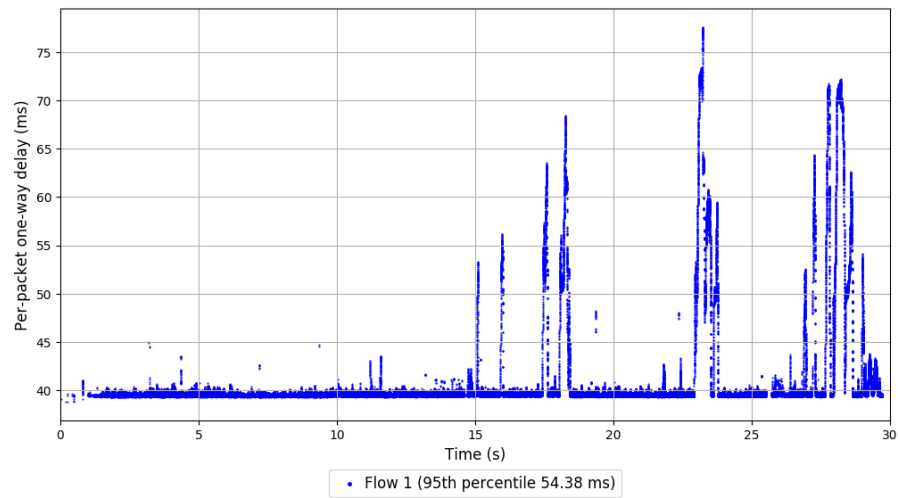
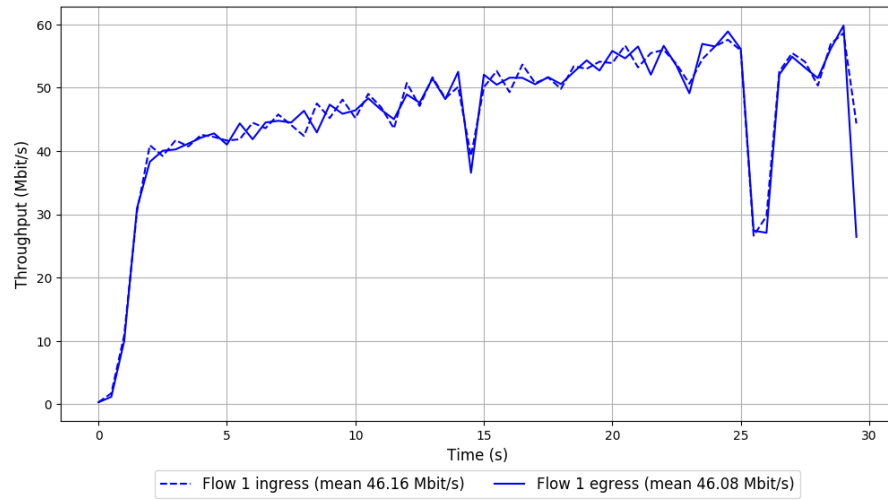
-- Flow 1:

Average throughput: 46.08 Mbit/s

95th percentile per-packet one-way delay: 54.380 ms

Loss rate: 0.83%

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



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 07:15:04

End at: 2018-04-24 07:15:34

Local clock offset: 3.258 ms

Remote clock offset: 42.721 ms

# Below is generated by plot.py at 2018-04-24 12:27:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 143.505 ms

Loss rate: 18.44%

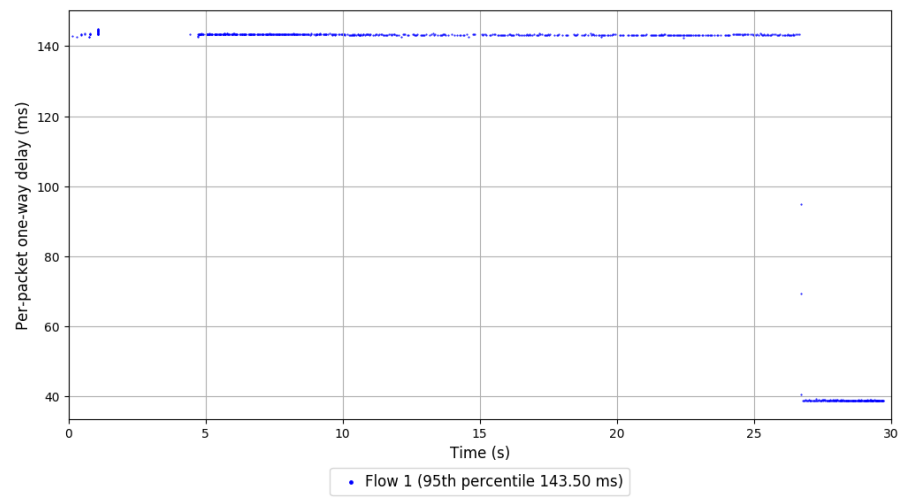
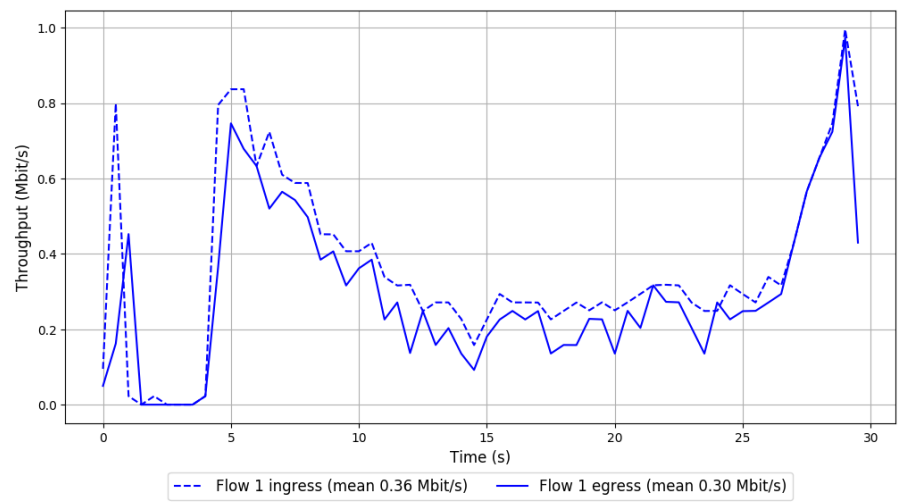
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 143.505 ms

Loss rate: 18.44%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 07:42:13

End at: 2018-04-24 07:42:43

Local clock offset: -4.415 ms

Remote clock offset: 10.152 ms

# Below is generated by plot.py at 2018-04-24 12:27:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 45.825 ms

Loss rate: 0.93%

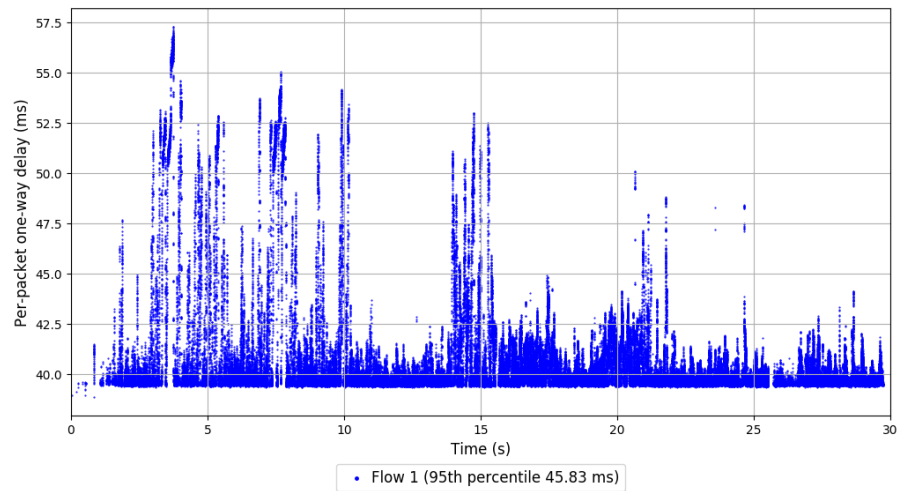
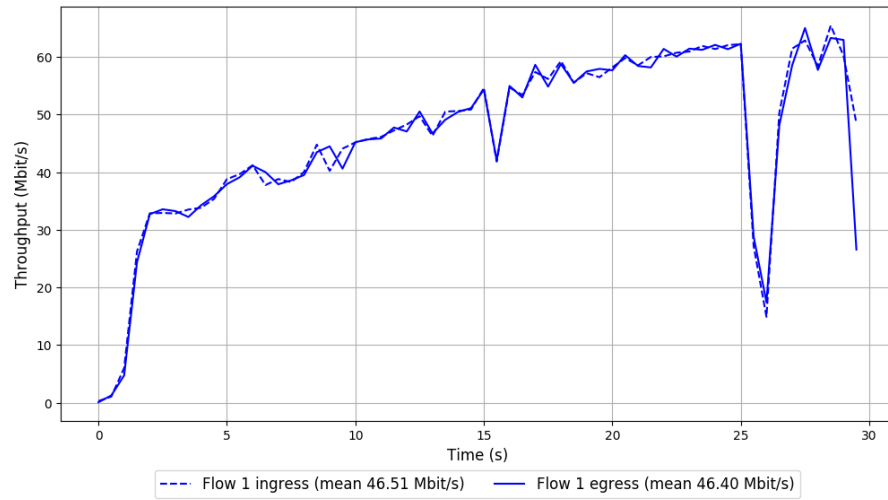
-- Flow 1:

Average throughput: 46.40 Mbit/s

95th percentile per-packet one-way delay: 45.825 ms

Loss rate: 0.93%

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



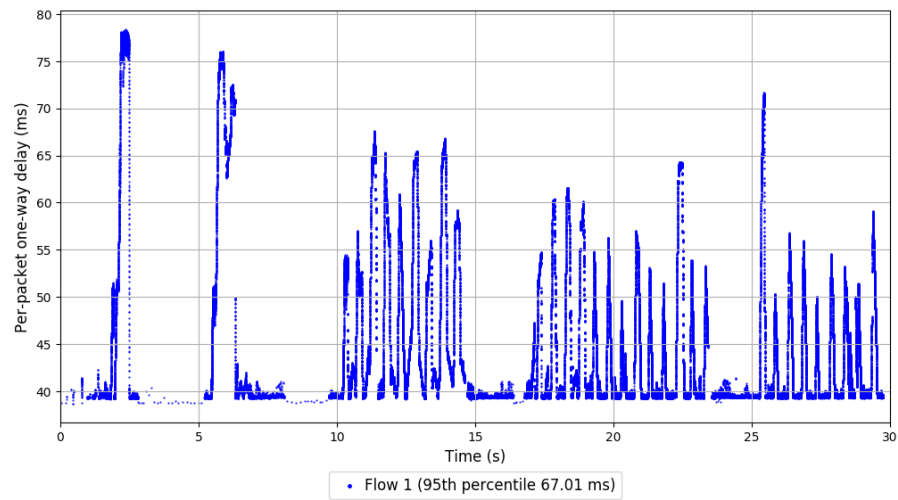
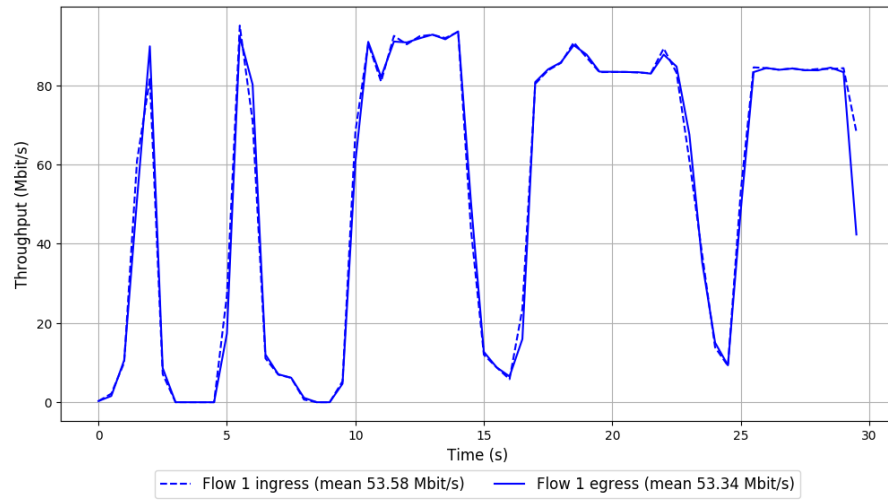
Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 08:03:29  
End at: 2018-04-24 08:03:59  
Local clock offset: -2.619 ms  
Remote clock offset: 31.598 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 53.34 Mbit/s  
95th percentile per-packet one-way delay: 67.009 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 53.34 Mbit/s  
95th percentile per-packet one-way delay: 67.009 ms  
Loss rate: 1.10%



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



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 08:25:00

End at: 2018-04-24 08:25:31

Local clock offset: -1.414 ms

Remote clock offset: 30.401 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 47.229 ms

Loss rate: 1.12%

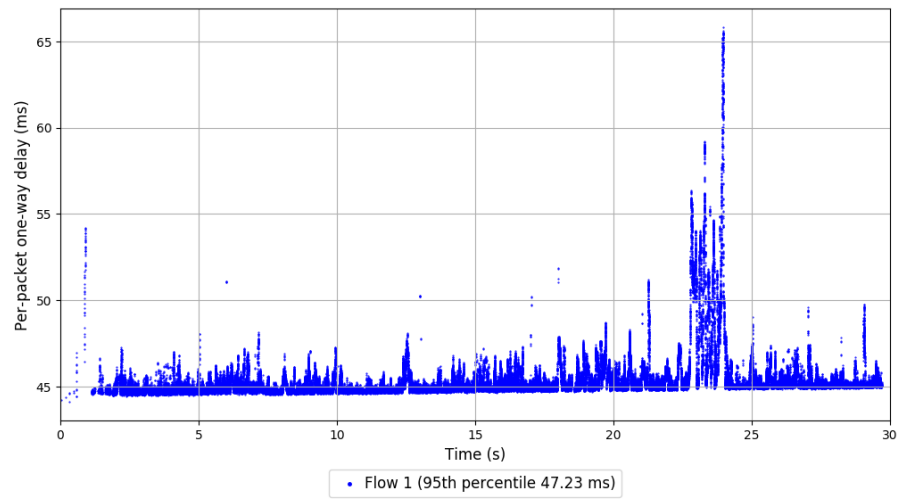
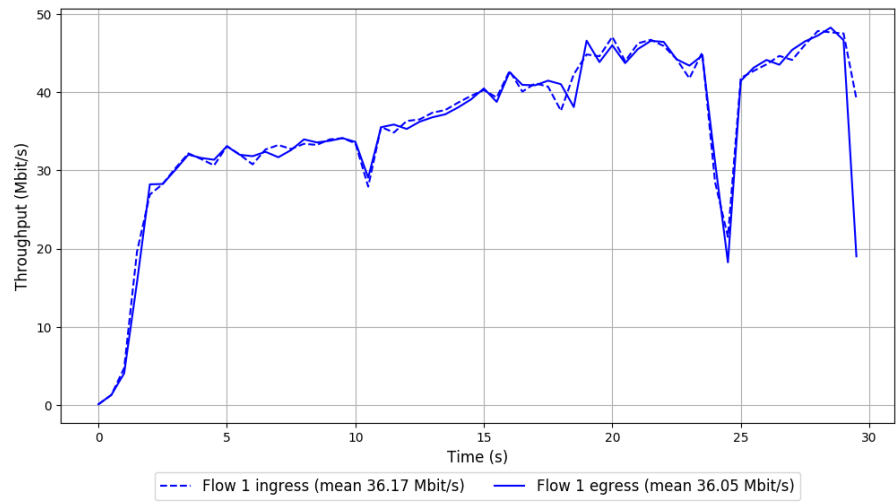
-- Flow 1:

Average throughput: 36.05 Mbit/s

95th percentile per-packet one-way delay: 47.229 ms

Loss rate: 1.12%

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

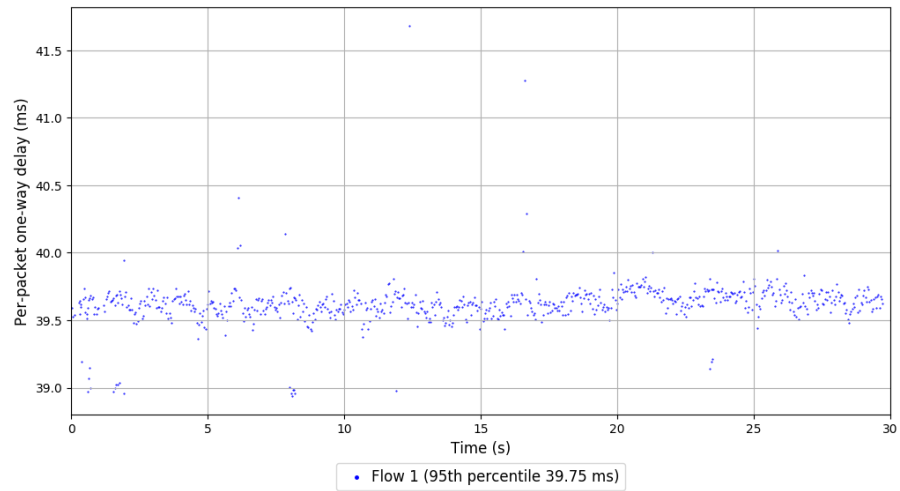
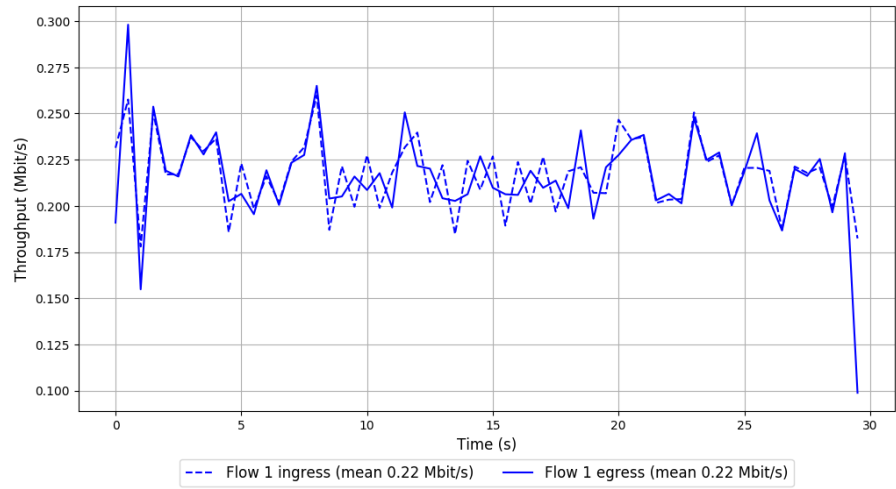


Run 1: Statistics of SCReAM

Start at: 2018-04-24 05:18:25  
End at: 2018-04-24 05:18:55  
Local clock offset: -3.663 ms  
Remote clock offset: -1.293 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.754 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.754 ms  
Loss rate: 0.77%

## Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-24 05:39:40

End at: 2018-04-24 05:40:10

Local clock offset: -0.798 ms

Remote clock offset: 0.961 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.616 ms

Loss rate: 0.76%

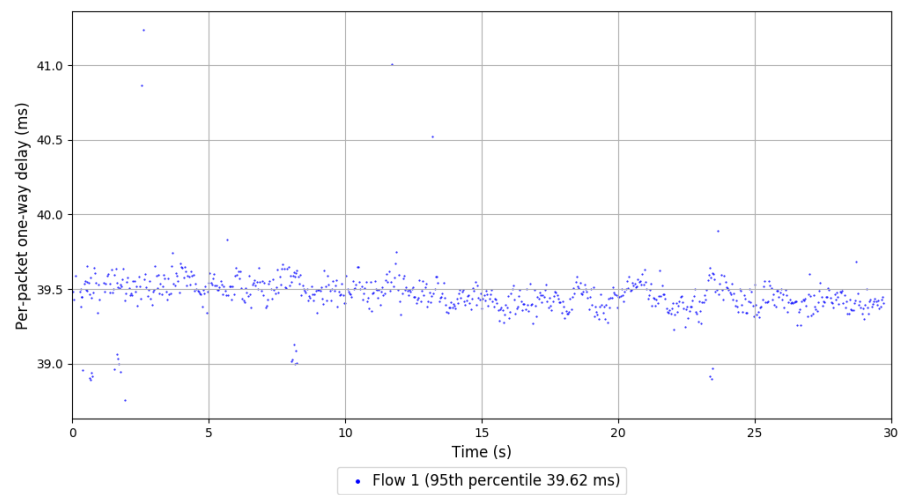
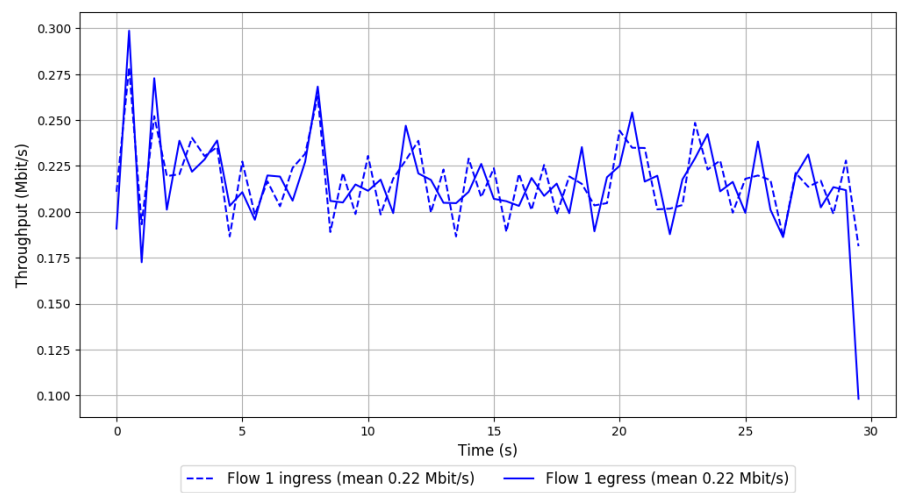
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.616 ms

Loss rate: 0.76%

Run 2: Report of SReAM — Data Link



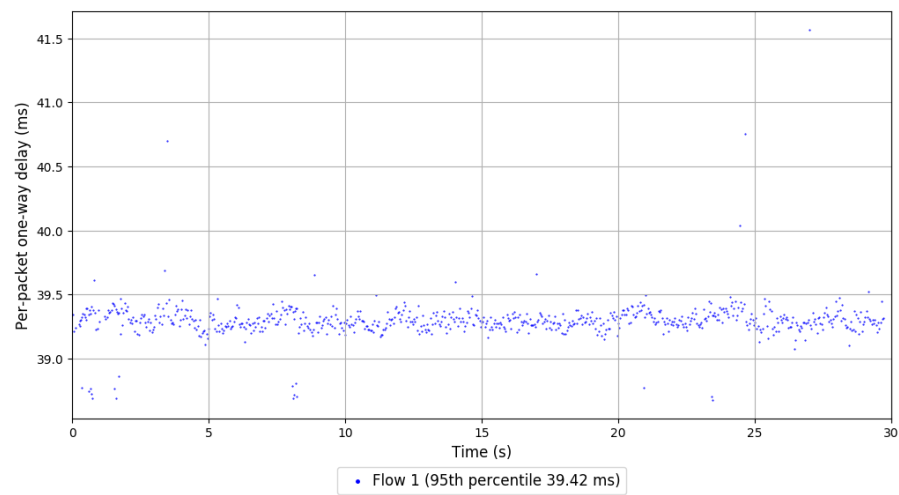
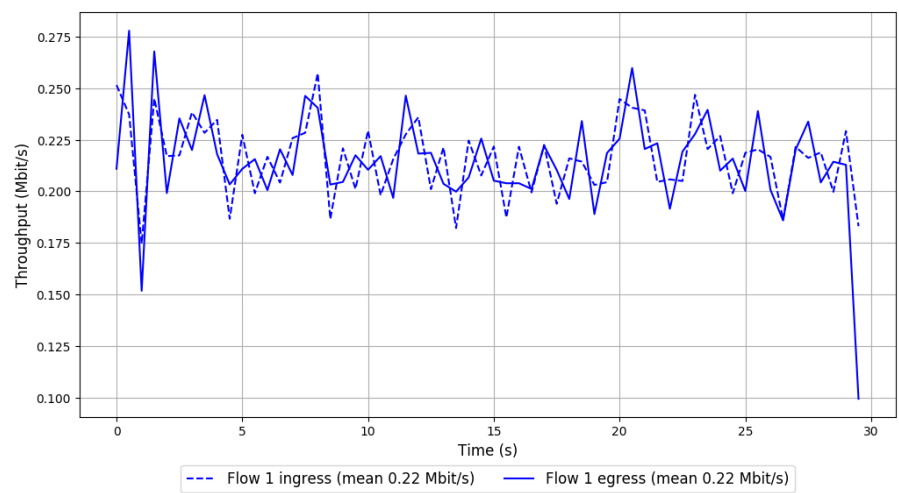
Run 3: Statistics of SCReAM

Start at: 2018-04-24 06:01:03  
End at: 2018-04-24 06:01:33  
Local clock offset: 1.812 ms  
Remote clock offset: 30.356 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.418 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.418 ms  
Loss rate: 0.77%



Run 3: Report of SReAM — Data Link

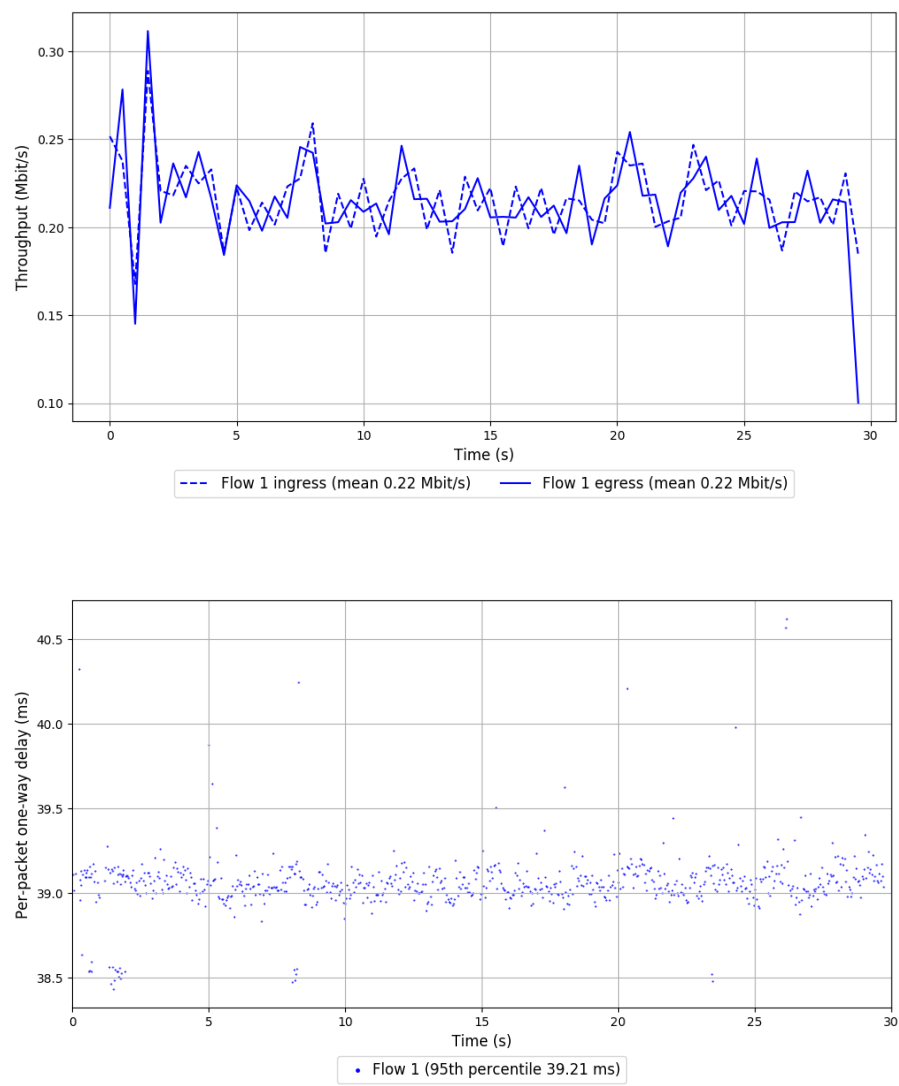


Run 4: Statistics of SCReAM

Start at: 2018-04-24 06:22:16  
End at: 2018-04-24 06:22:46  
Local clock offset: 2.83 ms  
Remote clock offset: -11.97 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.213 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.213 ms  
Loss rate: 0.77%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-24 06:43:35

End at: 2018-04-24 06:44:05

Local clock offset: 3.786 ms

Remote clock offset: 8.651 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.561 ms

Loss rate: 0.64%

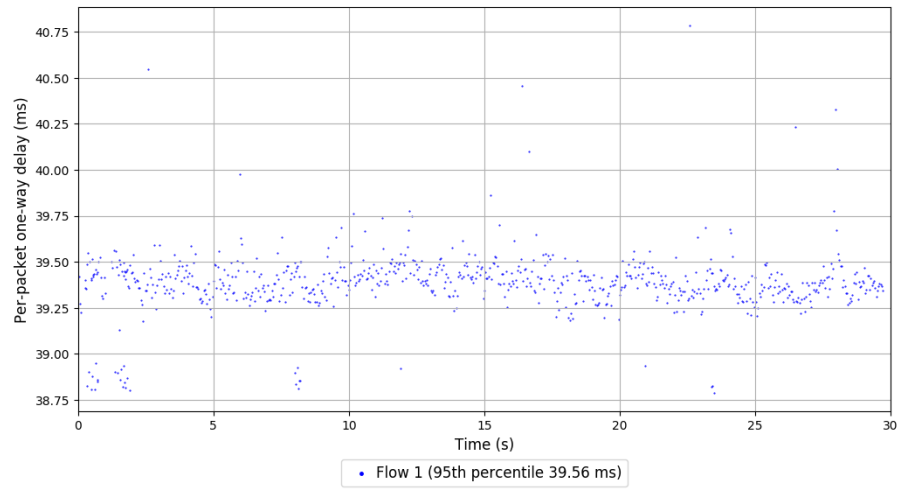
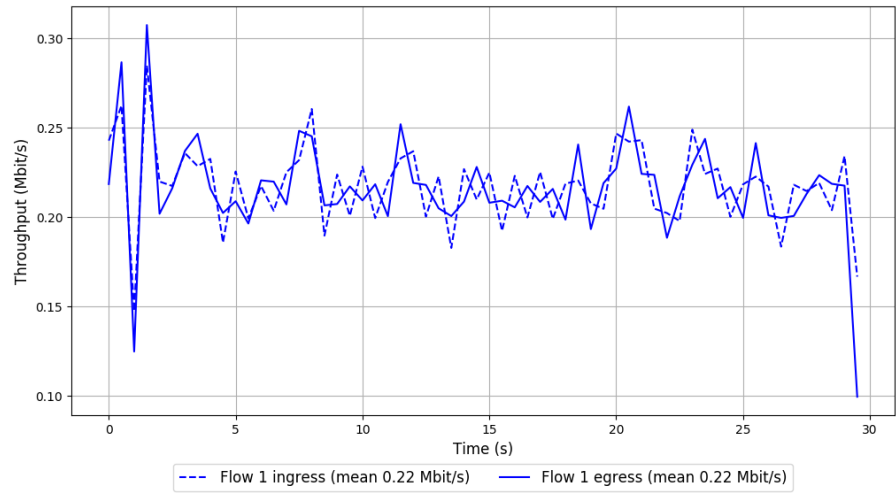
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 39.561 ms

Loss rate: 0.64%

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

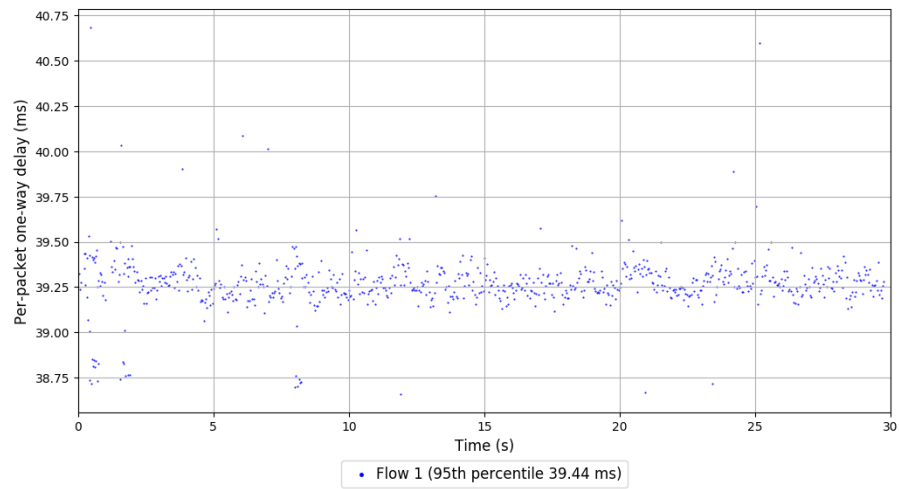
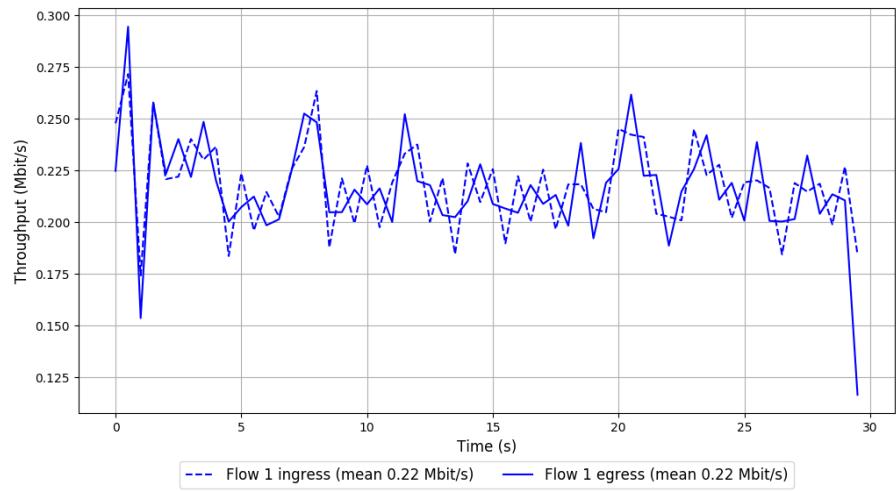


Run 6: Statistics of SCReAM

Start at: 2018-04-24 07:04:50  
End at: 2018-04-24 07:05:20  
Local clock offset: 3.086 ms  
Remote clock offset: 43.727 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.444 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 39.444 ms  
Loss rate: 0.64%

## Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-24 07:32:17

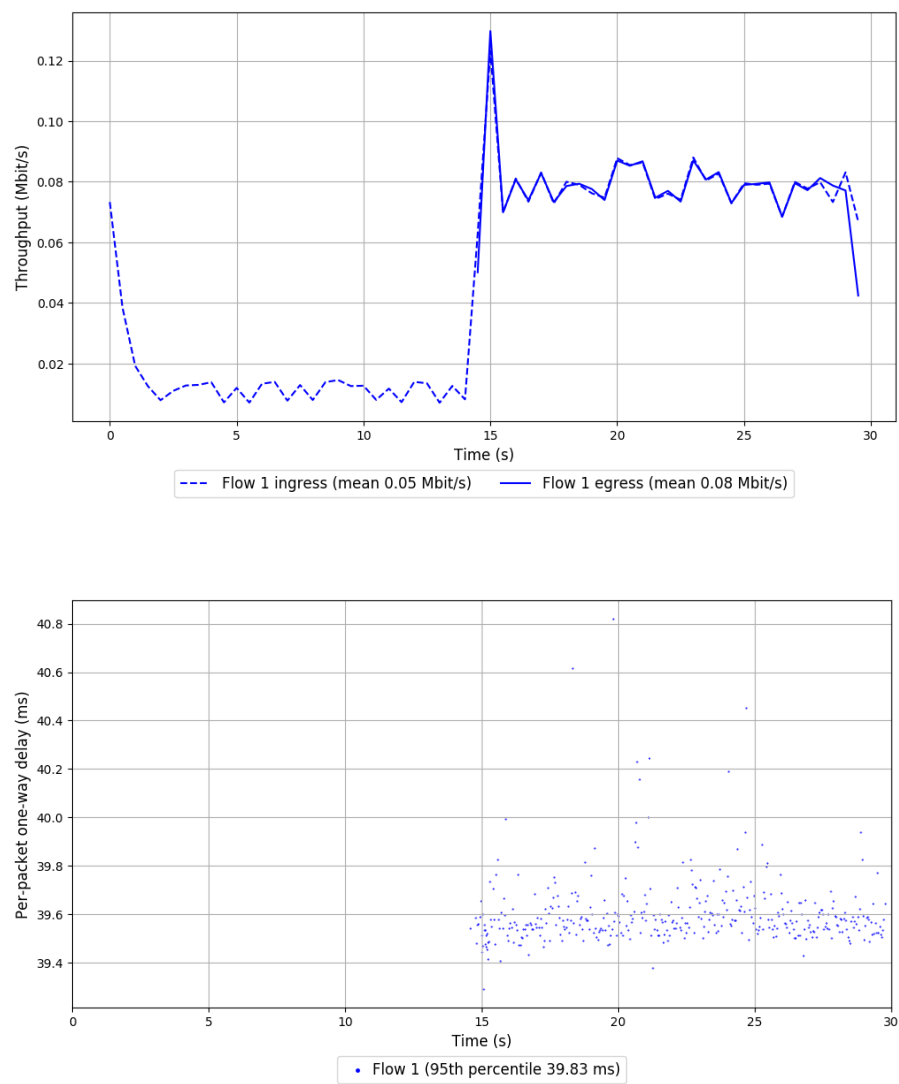
End at: 2018-04-24 07:32:47

Local clock offset: -2.159 ms

Remote clock offset: 11.978 ms



Run 7: Report of SReAM — Data Link

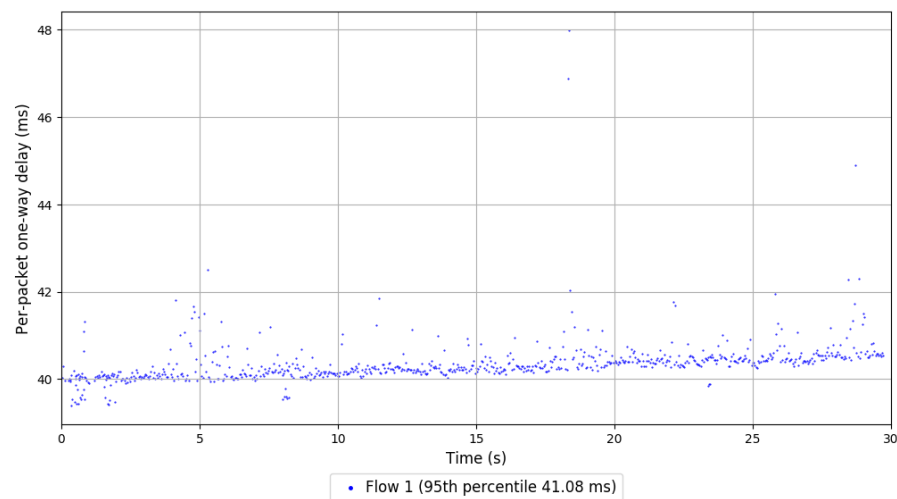
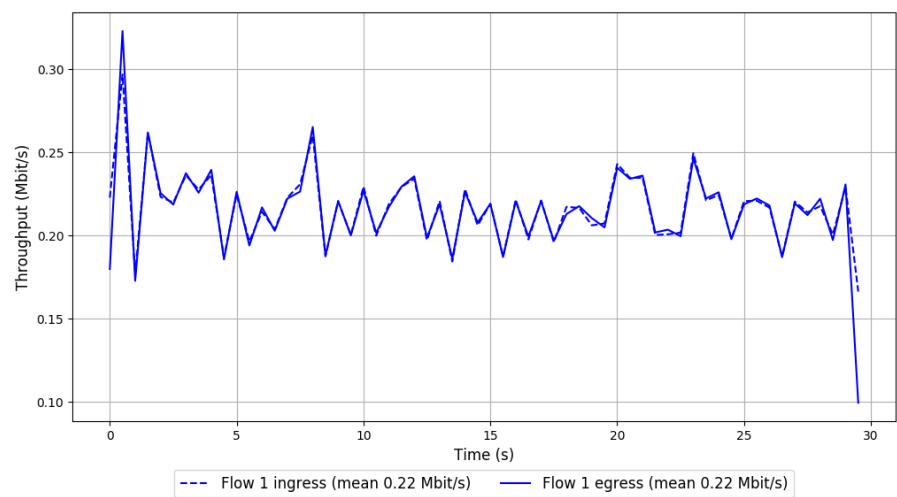


Run 8: Statistics of SCReAM

Start at: 2018-04-24 07:53:29  
End at: 2018-04-24 07:53:59  
Local clock offset: -6.148 ms  
Remote clock offset: 24.458 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 41.081 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 41.081 ms  
Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-24 08:15:00

End at: 2018-04-24 08:15:30

Local clock offset: -1.375 ms

Remote clock offset: 7.076 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 65.655 ms

Loss rate: 0.76%

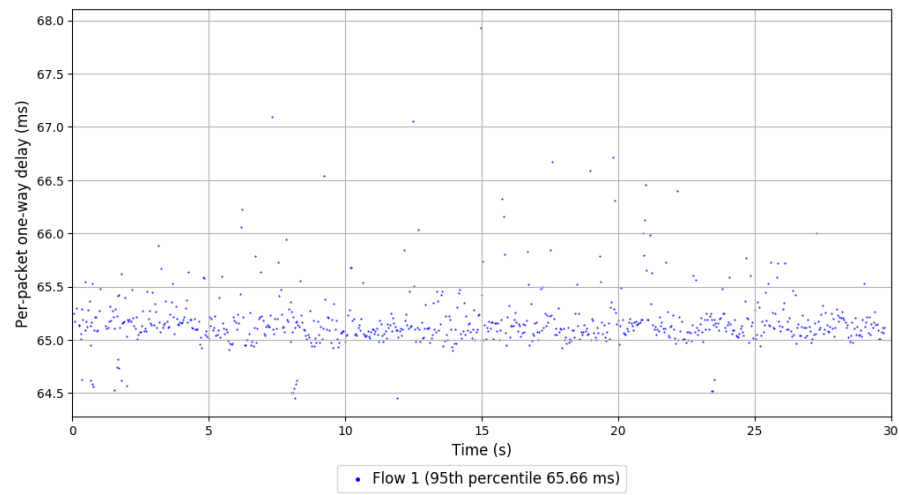
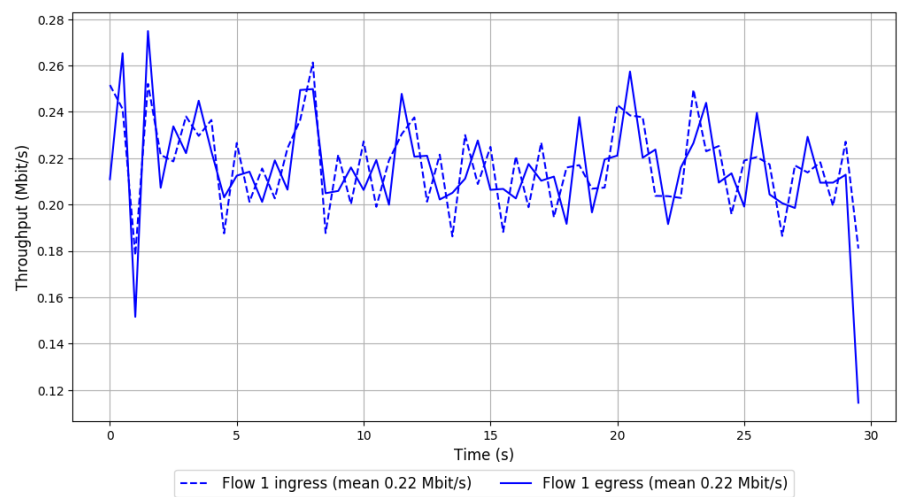
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 65.655 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link

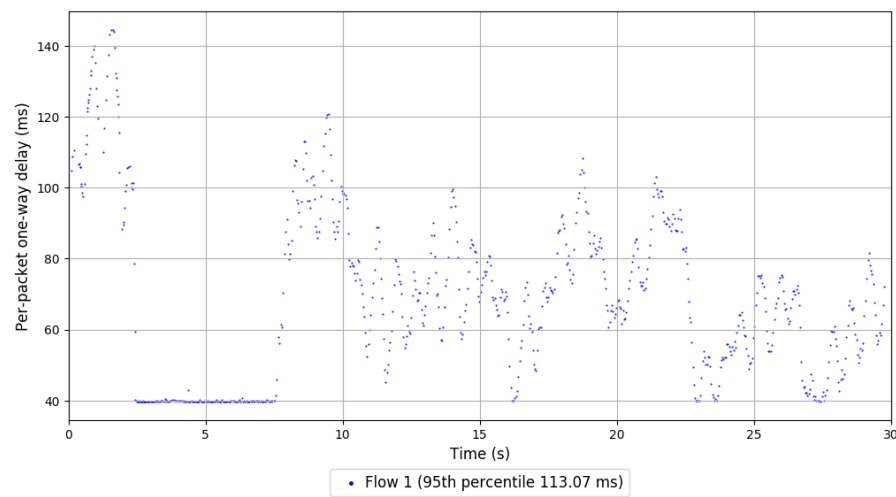
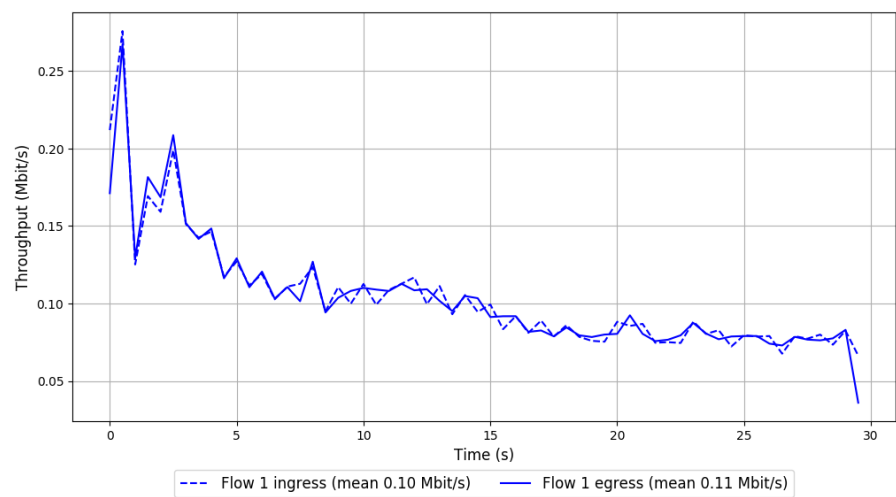


Run 10: Statistics of SCReAM

Start at: 2018-04-24 08:36:53  
End at: 2018-04-24 08:37:23  
Local clock offset: -3.019 ms  
Remote clock offset: 20.087 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 113.070 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 113.070 ms  
Loss rate: 0.60%

Run 10: Report of SCRaM — Data Link



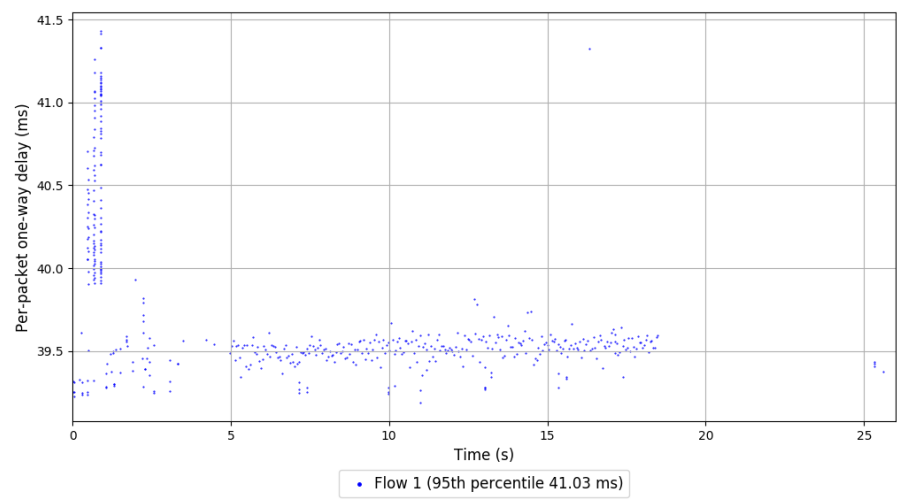
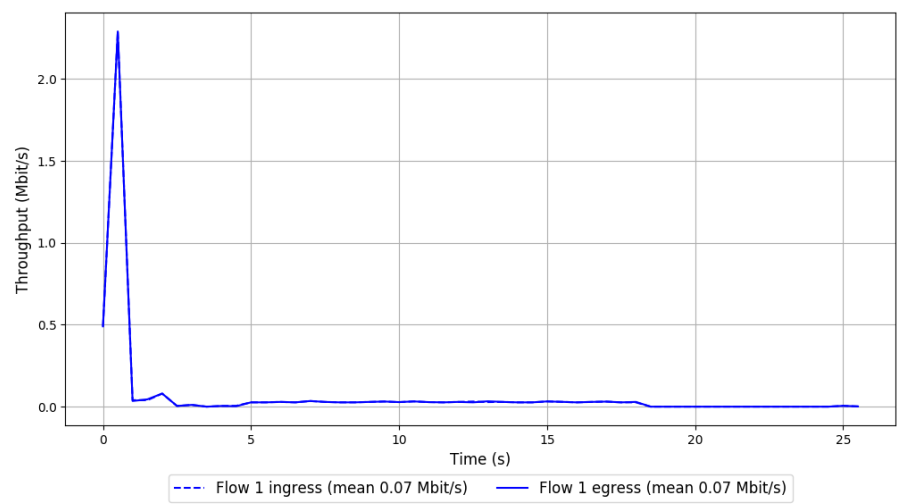
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 05:17:12  
End at: 2018-04-24 05:17:42  
Local clock offset: -3.371 ms  
Remote clock offset: -1.222 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 41.027 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 41.027 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-24 05:38:27

End at: 2018-04-24 05:38:57

Local clock offset: -1.248 ms

Remote clock offset: 0.92 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 40.545 ms

Loss rate: 0.00%

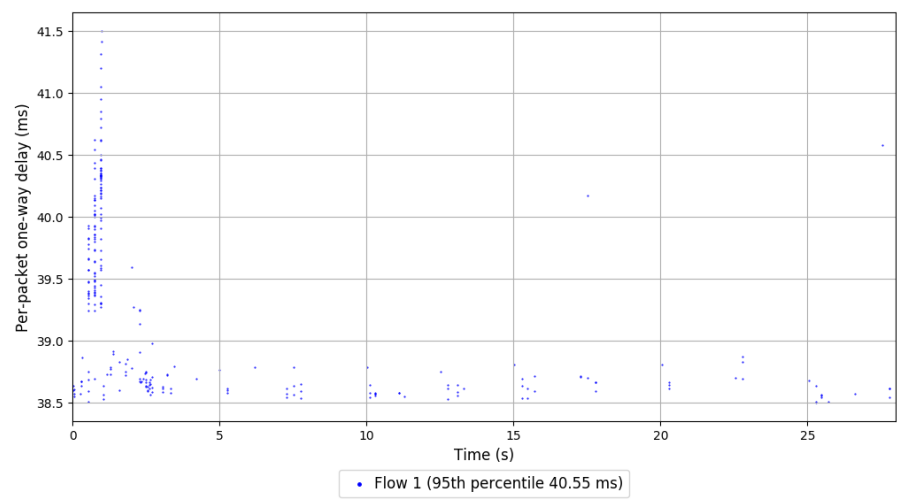
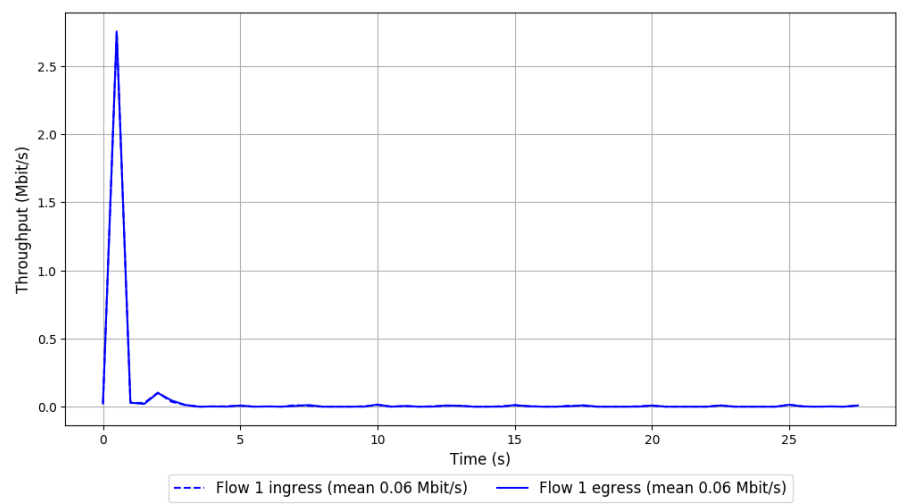
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 40.545 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-24 05:59:51

End at: 2018-04-24 06:00:21

Local clock offset: 1.84 ms

Remote clock offset: 1.207 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 52.350 ms

Loss rate: 0.00%

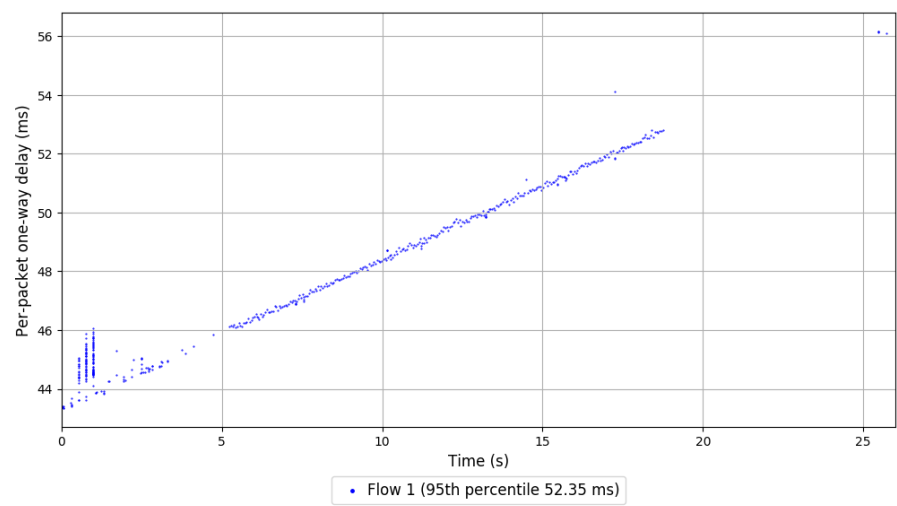
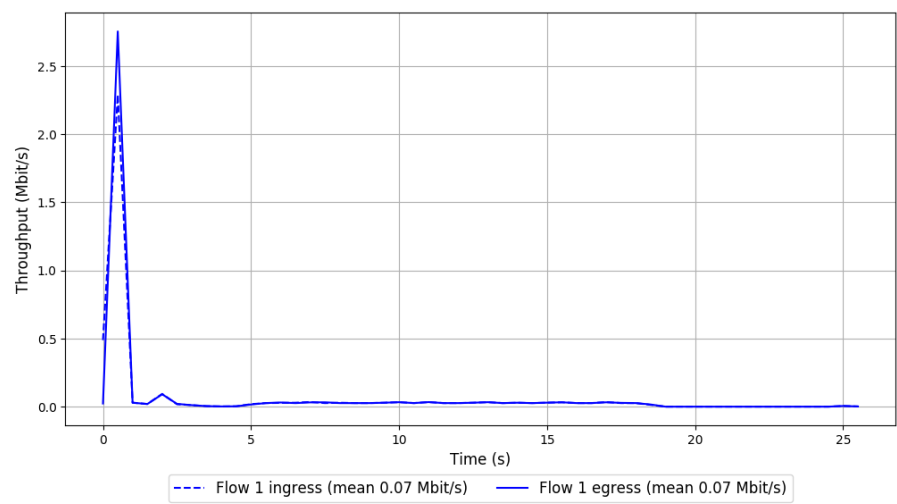
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 52.350 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

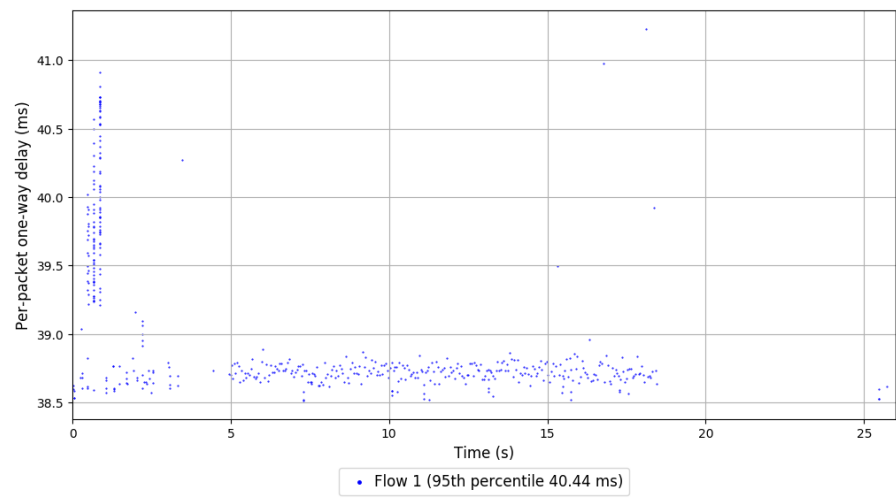
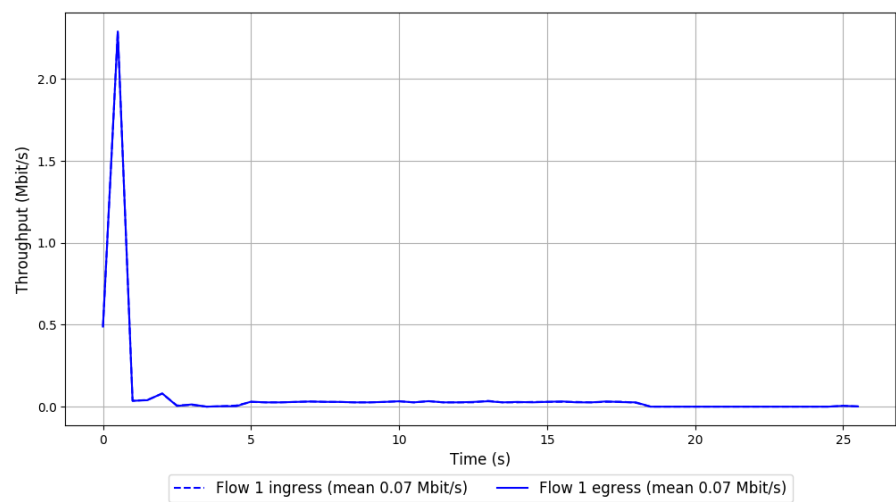


Run 4: Statistics of WebRTC media

Start at: 2018-04-24 06:21:03  
End at: 2018-04-24 06:21:33  
Local clock offset: 2.804 ms  
Remote clock offset: -11.935 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.444 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 40.444 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-24 06:42:22

End at: 2018-04-24 06:42:53

Local clock offset: 3.787 ms

Remote clock offset: 8.575 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 40.884 ms

Loss rate: 0.00%

-- Flow 1:

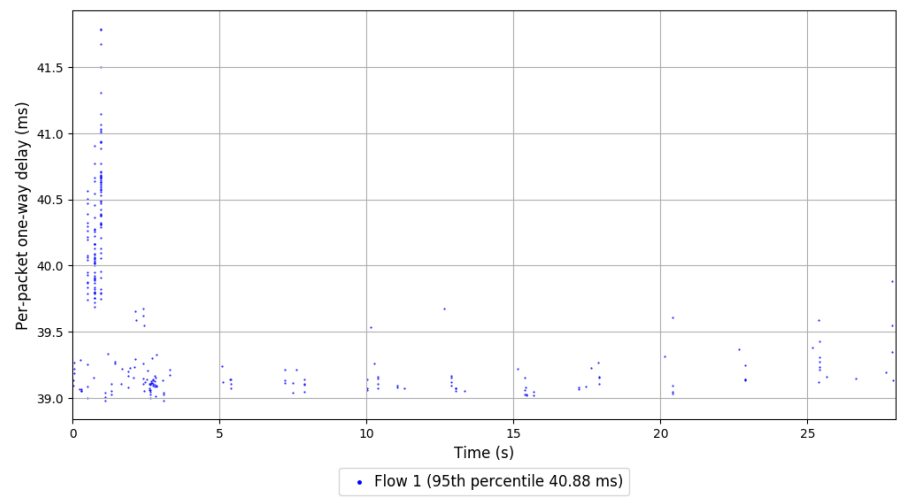
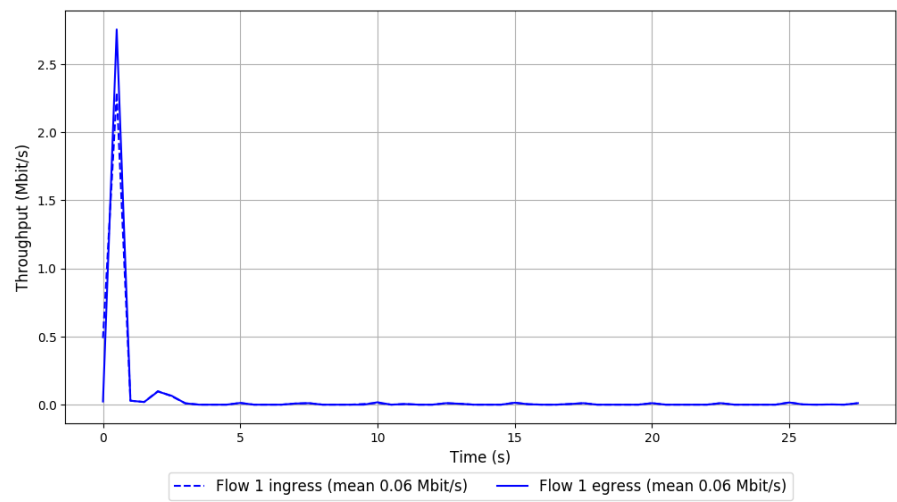
Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 40.884 ms

Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

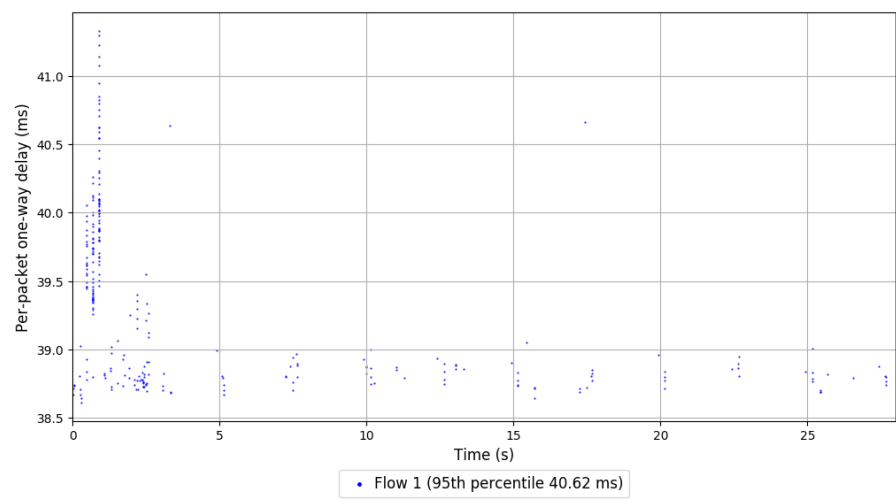
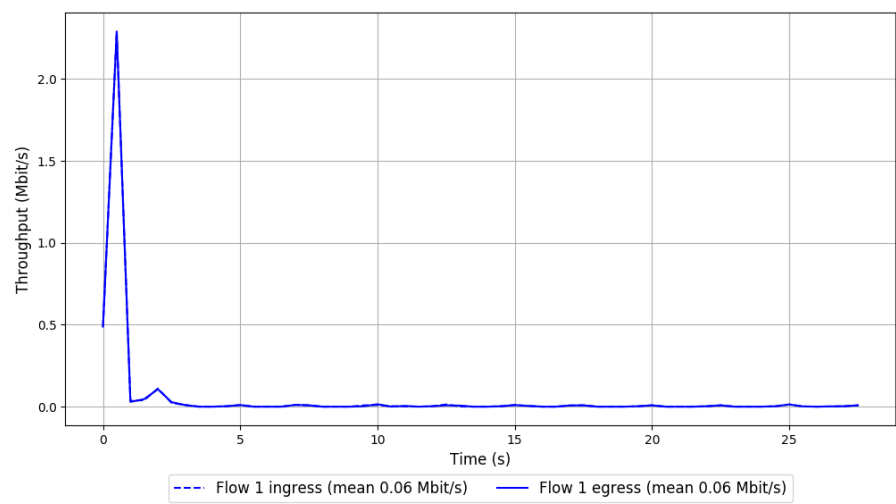


Run 6: Statistics of WebRTC media

Start at: 2018-04-24 07:03:38  
End at: 2018-04-24 07:04:08  
Local clock offset: 3.19 ms  
Remote clock offset: 43.606 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.624 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.624 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

/home/ubuntu/pantheon\_data/2018-04-24T05-05-China-to-AWS-Korea-10-runs/webrtc\_stats\_run7.log

Run 7: Report of WebRTC media — Data Link

Figure is missing

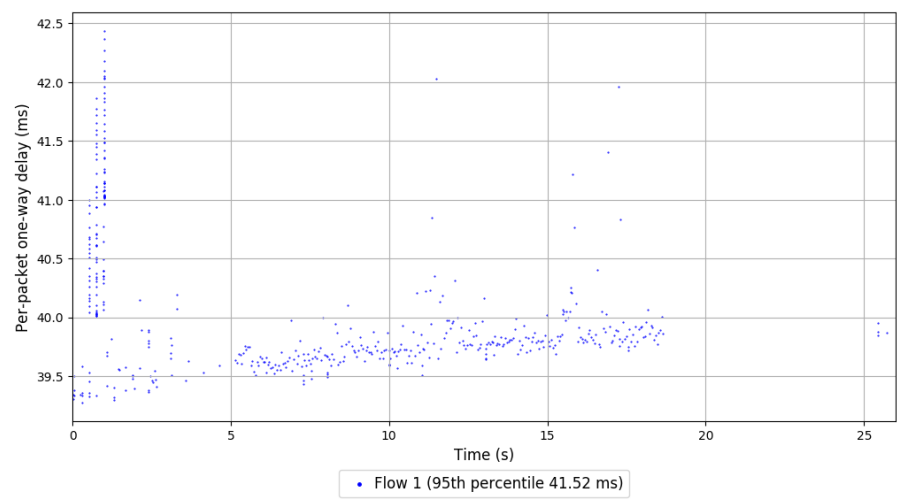
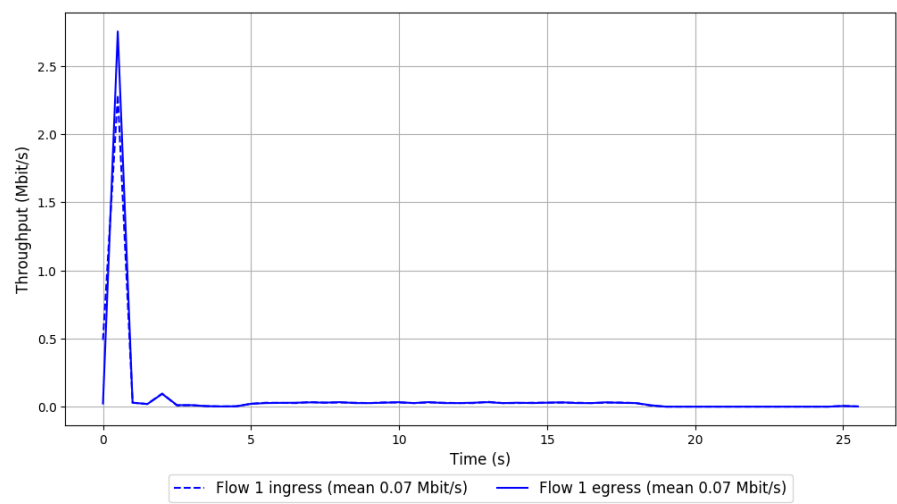
Figure is missing

Run 8: Statistics of WebRTC media

Start at: 2018-04-24 07:52:16  
End at: 2018-04-24 07:52:46  
Local clock offset: -5.829 ms  
Remote clock offset: 23.175 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 41.522 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 41.522 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



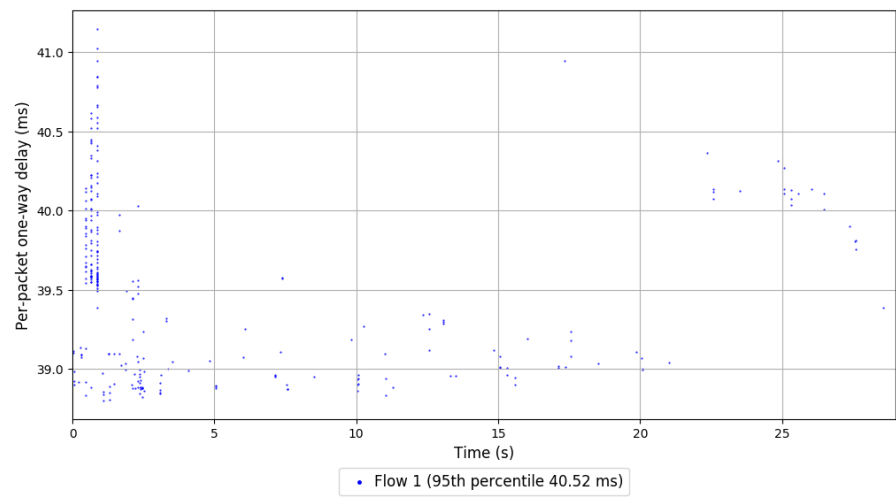
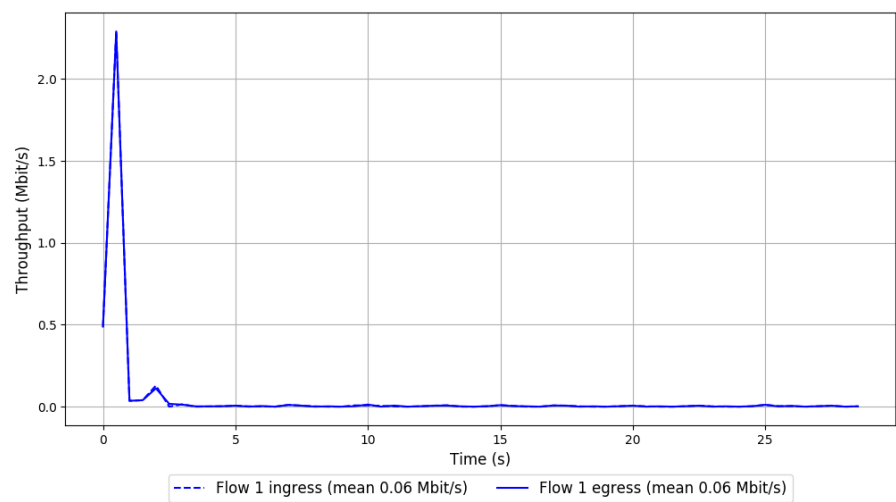
Run 9: Statistics of WebRTC media

Start at: 2018-04-24 08:13:47  
End at: 2018-04-24 08:14:17  
Local clock offset: -1.582 ms  
Remote clock offset: 34.492 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.522 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 40.522 ms  
Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link

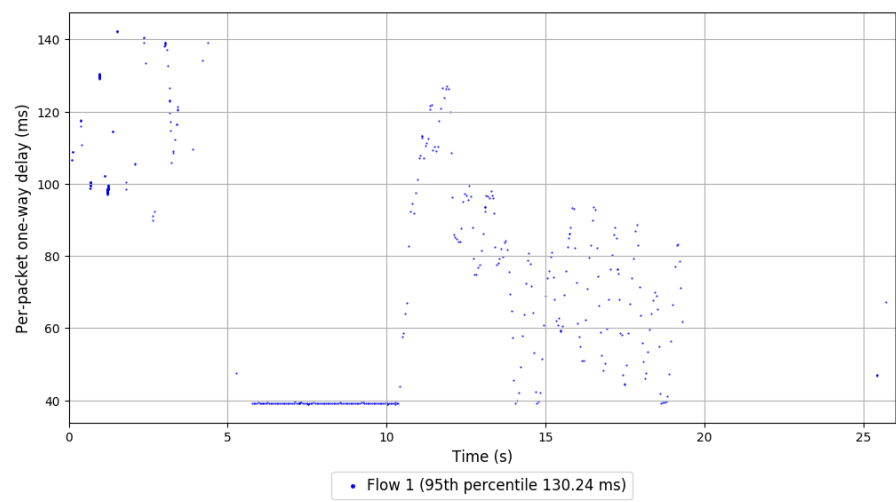
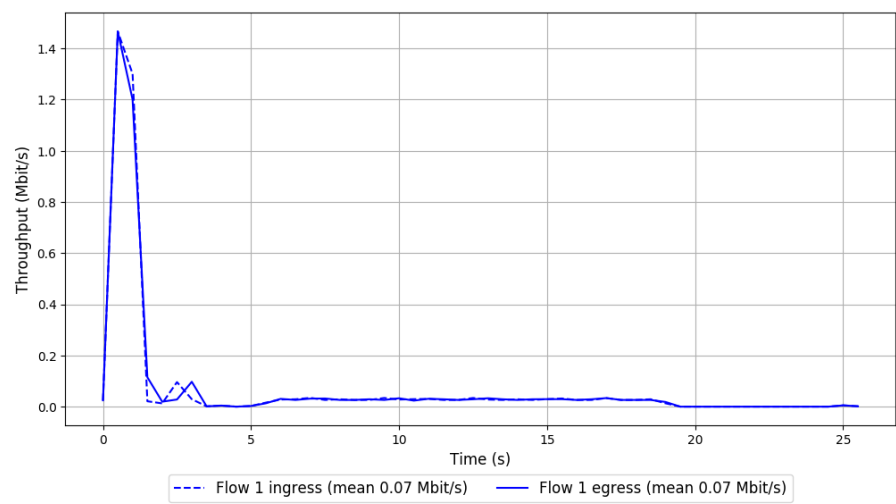


Run 10: Statistics of WebRTC media

Start at: 2018-04-24 08:35:40  
End at: 2018-04-24 08:36:10  
Local clock offset: -2.756 ms  
Remote clock offset: 19.875 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 130.237 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 130.237 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-24 05:25:56

End at: 2018-04-24 05:26:27

Local clock offset: -2.248 ms

Remote clock offset: -1.09 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 41.716 ms

Loss rate: 0.88%

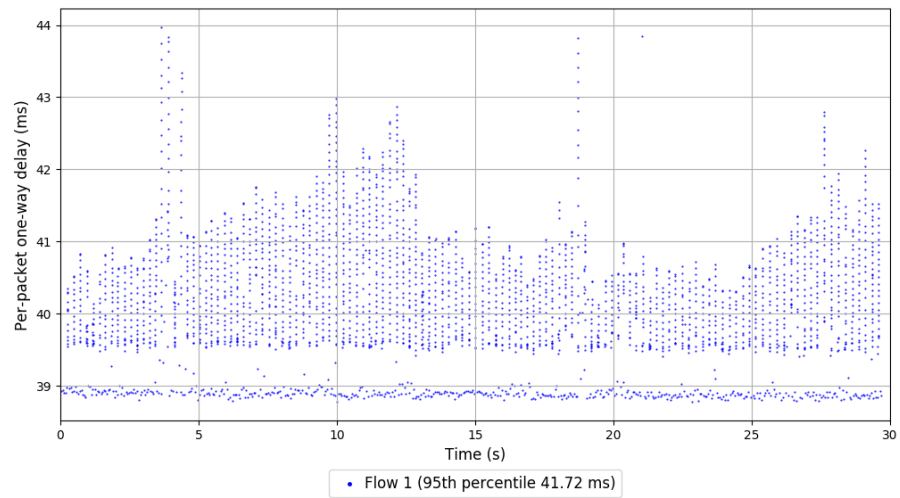
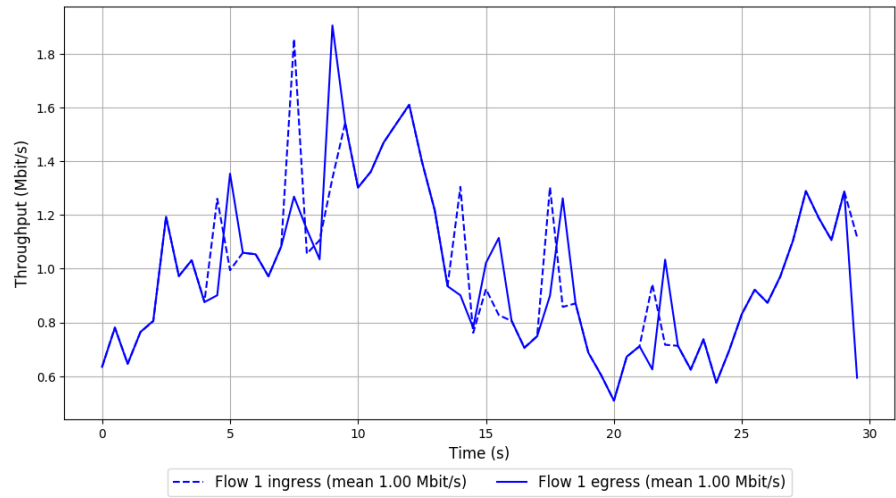
-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 41.716 ms

Loss rate: 0.88%

## Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-24 05:47:13

End at: 2018-04-24 05:47:43

Local clock offset: 0.907 ms

Remote clock offset: 1.972 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 43.022 ms

Loss rate: 1.34%

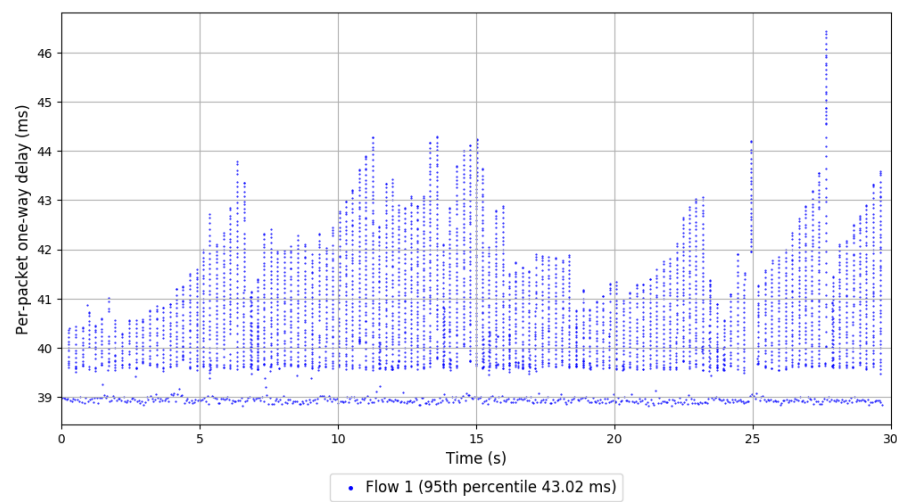
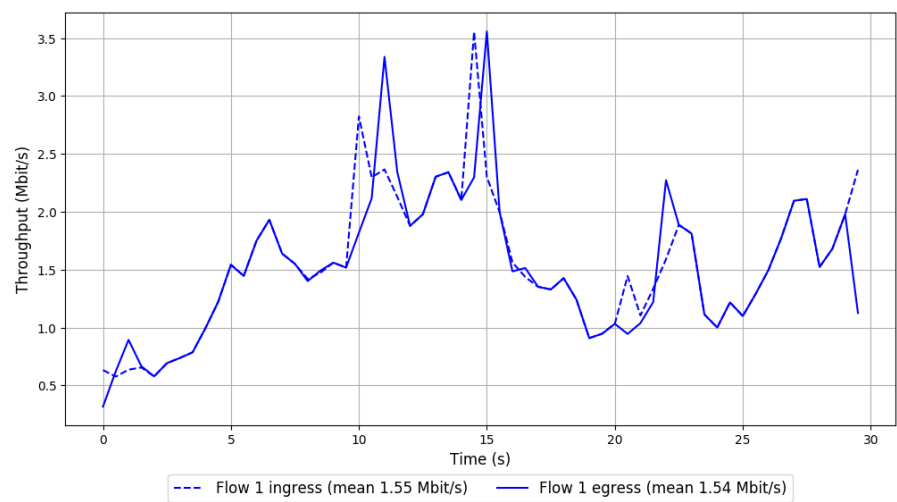
-- Flow 1:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 43.022 ms

Loss rate: 1.34%

Run 2: Report of Sprout — Data Link



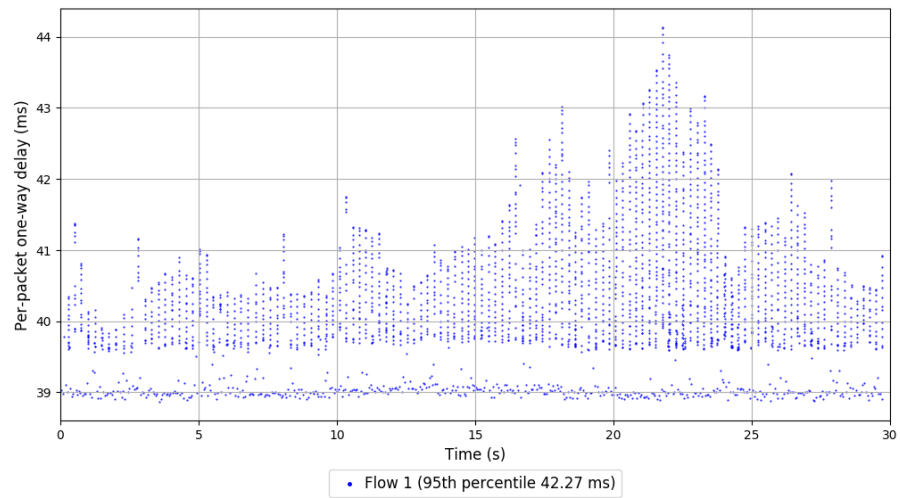
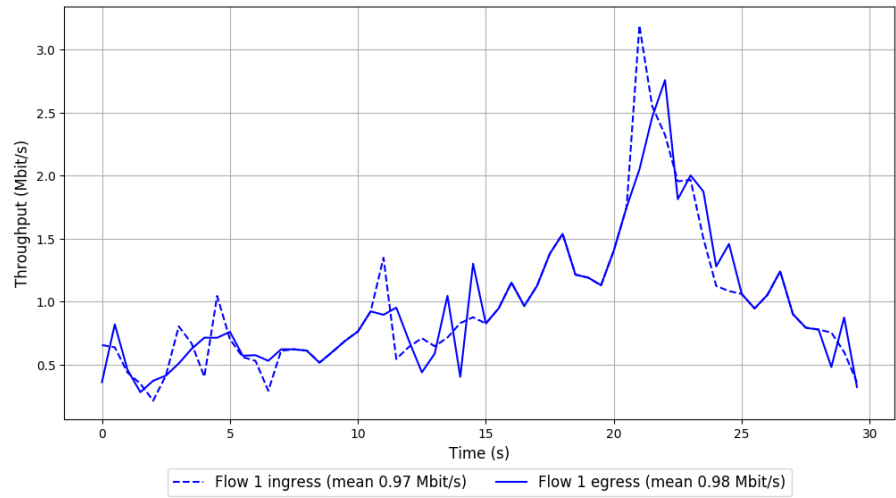
Run 3: Statistics of Sprout

Start at: 2018-04-24 06:08:33  
End at: 2018-04-24 06:09:03  
Local clock offset: 2.403 ms  
Remote clock offset: 30.654 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.98 Mbit/s  
95th percentile per-packet one-way delay: 42.272 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 0.98 Mbit/s  
95th percentile per-packet one-way delay: 42.272 ms  
Loss rate: 0.07%



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

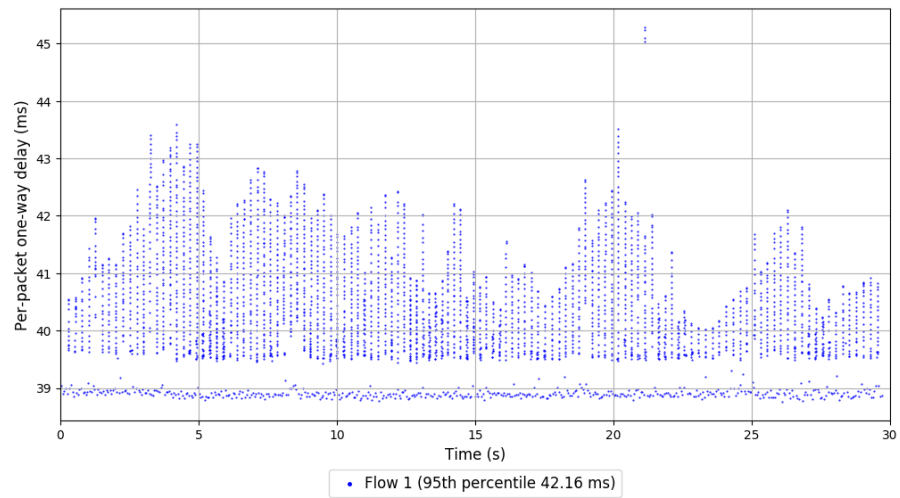
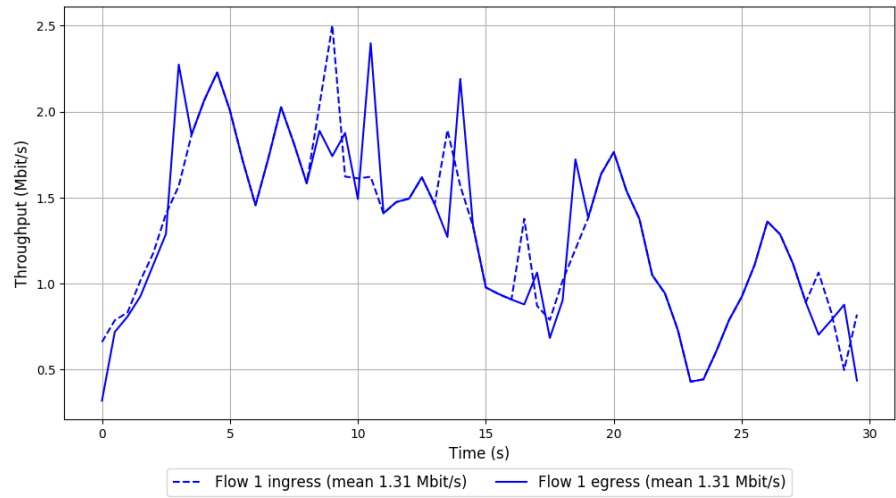


Run 4: Statistics of Sprout

Start at: 2018-04-24 06:29:48  
End at: 2018-04-24 06:30:18  
Local clock offset: 3.081 ms  
Remote clock offset: -11.405 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 42.160 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 42.160 ms  
Loss rate: 0.53%

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



Run 5: Statistics of Sprout

Start at: 2018-04-24 06:51:07

End at: 2018-04-24 06:51:37

Local clock offset: 3.423 ms

Remote clock offset: 9.145 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 45.535 ms

Loss rate: 1.05%

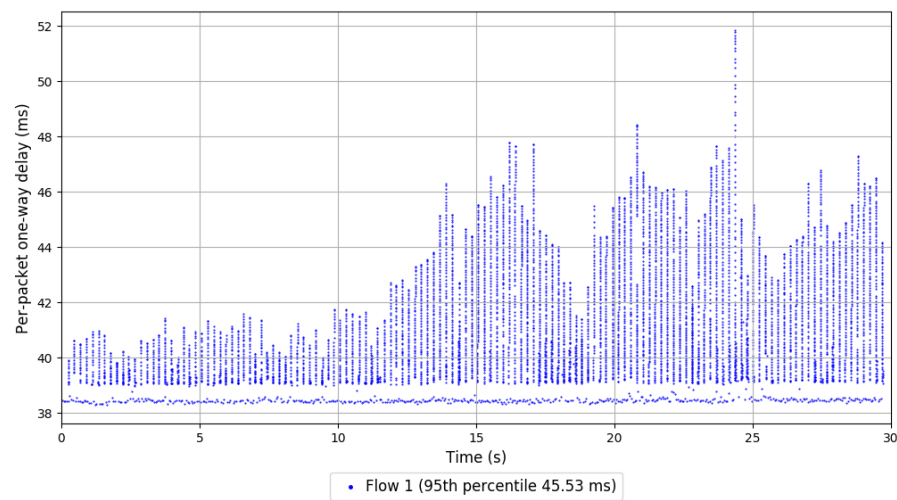
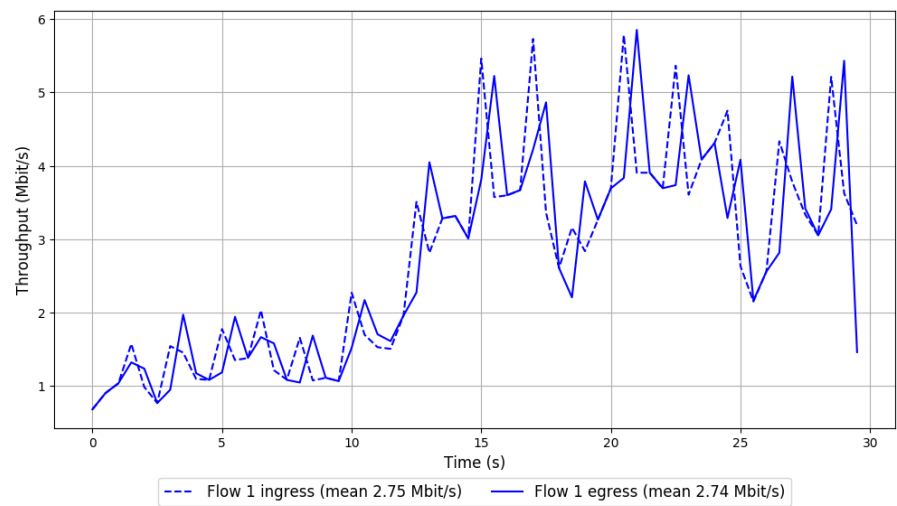
-- Flow 1:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 45.535 ms

Loss rate: 1.05%

Run 5: Report of Sprout — Data Link

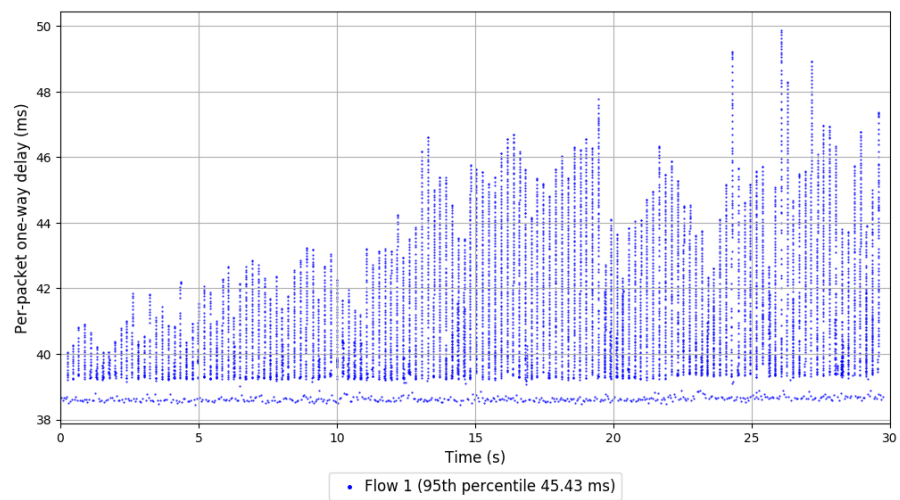
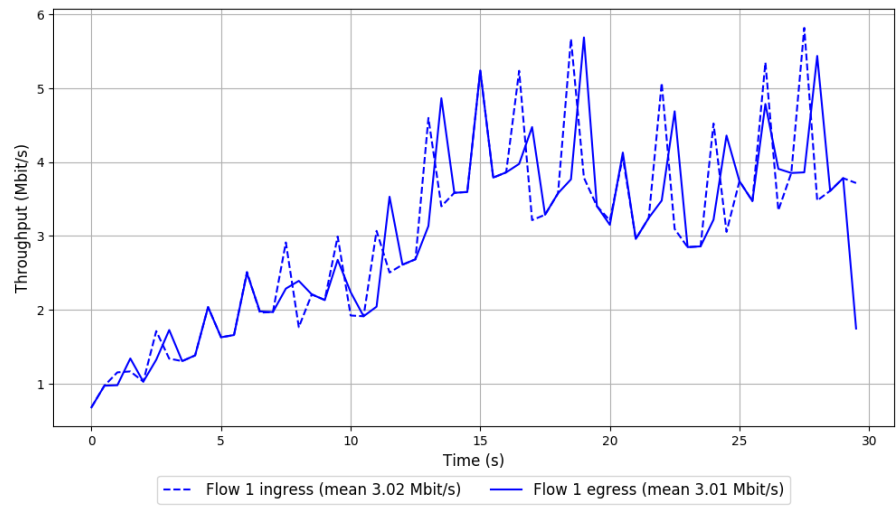


Run 6: Statistics of Sprout

Start at: 2018-04-24 07:12:22  
End at: 2018-04-24 07:12:52  
Local clock offset: 3.005 ms  
Remote clock offset: 44.053 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.01 Mbit/s  
95th percentile per-packet one-way delay: 45.432 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 3.01 Mbit/s  
95th percentile per-packet one-way delay: 45.432 ms  
Loss rate: 1.09%

## Run 6: Report of Sprout — Data Link



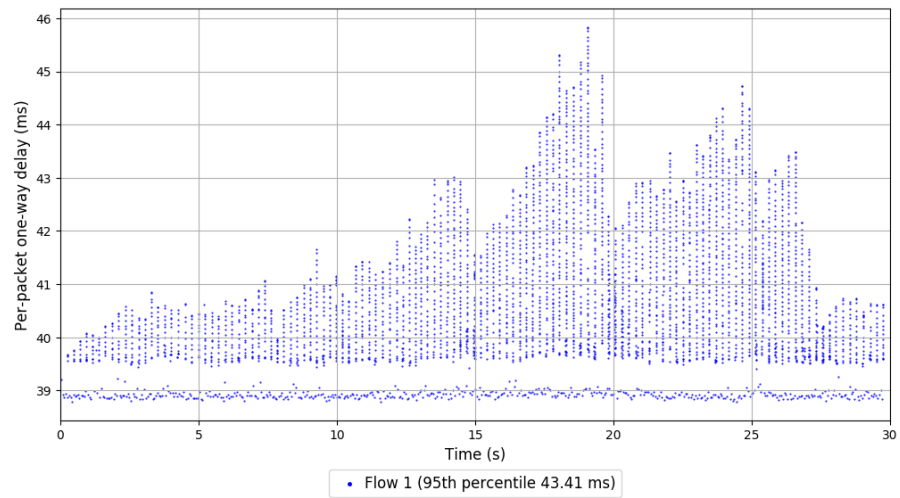
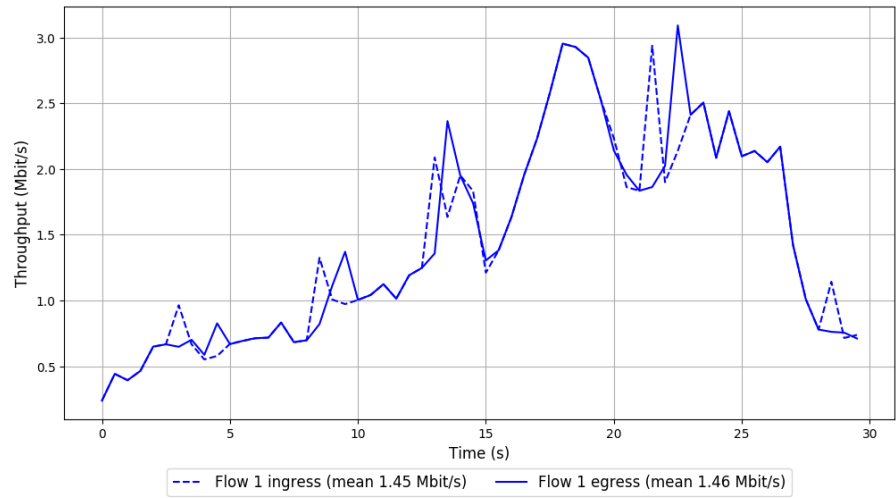
Run 7: Statistics of Sprout

Start at: 2018-04-24 07:39:44  
End at: 2018-04-24 07:40:14  
Local clock offset: -4.082 ms  
Remote clock offset: 10.46 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 43.409 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 43.409 ms  
Loss rate: 0.42%



## Run 7: Report of Sprout — Data Link

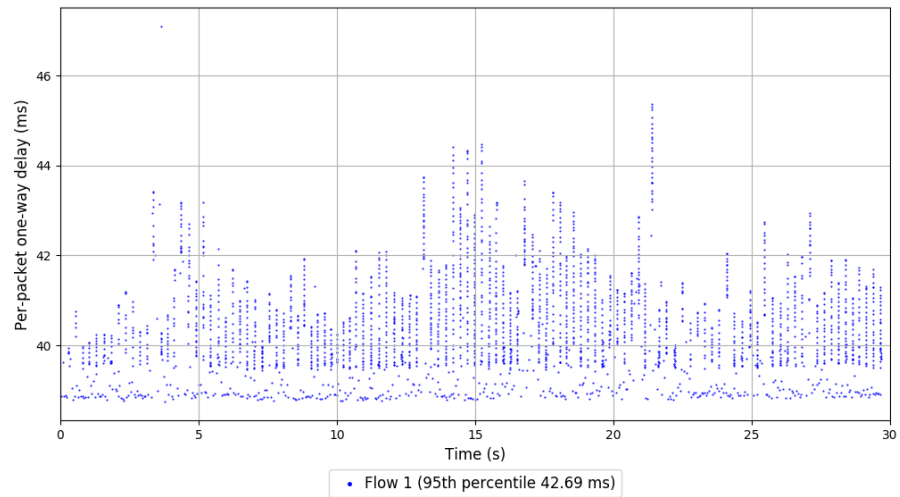
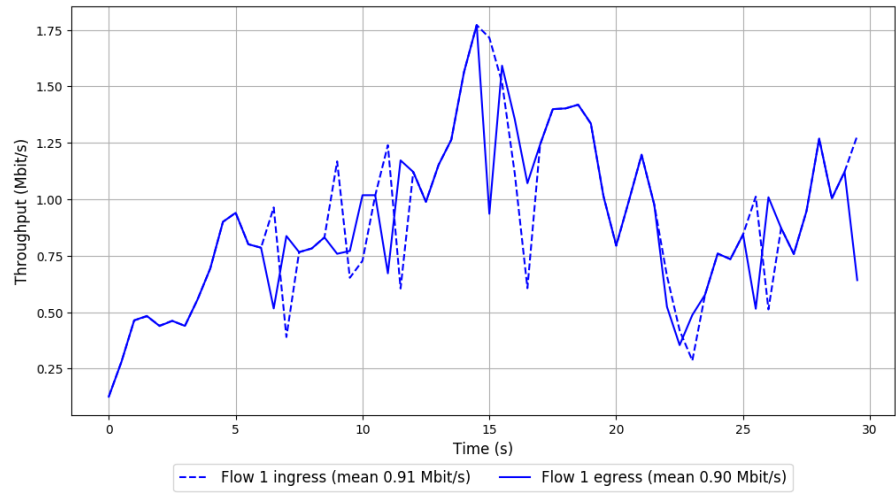


Run 8: Statistics of Sprout

Start at: 2018-04-24 08:01:00  
End at: 2018-04-24 08:01:30  
Local clock offset: -3.143 ms  
Remote clock offset: 30.43 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.90 Mbit/s  
95th percentile per-packet one-way delay: 42.689 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 0.90 Mbit/s  
95th percentile per-packet one-way delay: 42.689 ms  
Loss rate: 1.18%

## Run 8: Report of Sprout — Data Link

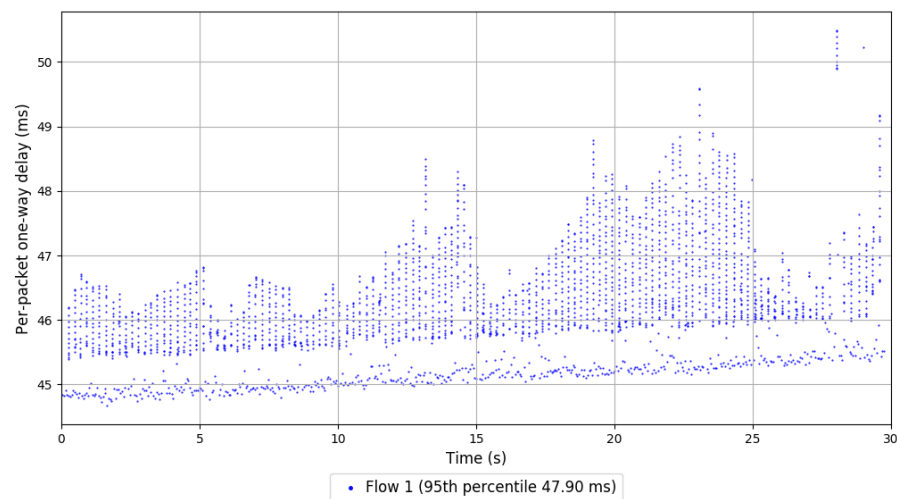
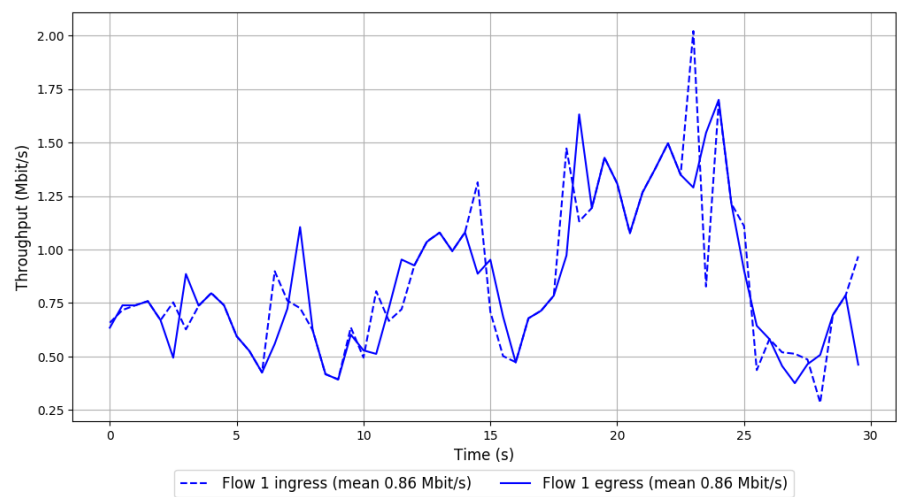


Run 9: Statistics of Sprout

Start at: 2018-04-24 08:22:30  
End at: 2018-04-24 08:23:00  
Local clock offset: -1.231 ms  
Remote clock offset: 29.387 ms

# Below is generated by plot.py at 2018-04-24 12:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.86 Mbit/s  
95th percentile per-packet one-way delay: 47.899 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 0.86 Mbit/s  
95th percentile per-packet one-way delay: 47.899 ms  
Loss rate: 0.98%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-24 08:44:35

End at: 2018-04-24 08:45:05

Local clock offset: -3.95 ms

Remote clock offset: 22.778 ms

# Below is generated by plot.py at 2018-04-24 12:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 43.721 ms

Loss rate: 1.23%

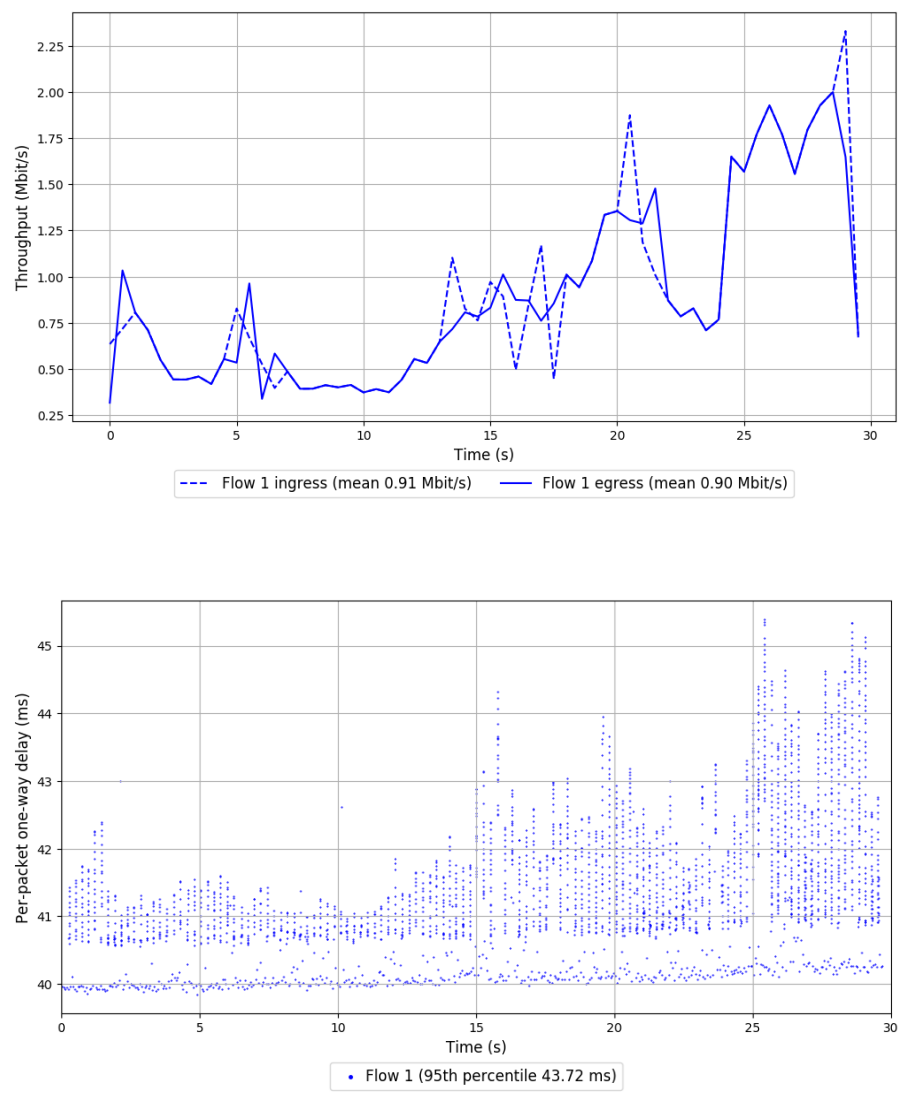
-- Flow 1:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 43.721 ms

Loss rate: 1.23%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 05:24:39

End at: 2018-04-24 05:25:09

Local clock offset: -2.533 ms

Remote clock offset: -1.198 ms

# Below is generated by plot.py at 2018-04-24 12:28:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 57.074 ms

Loss rate: 1.27%

-- Flow 1:

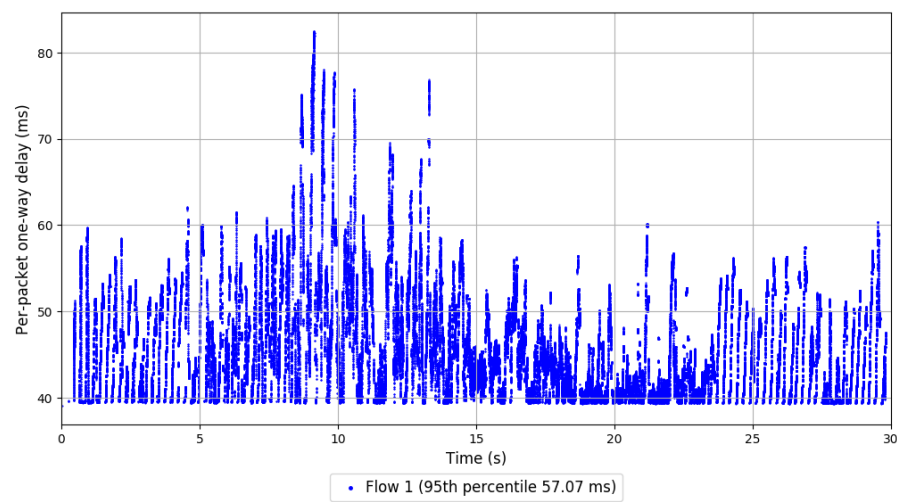
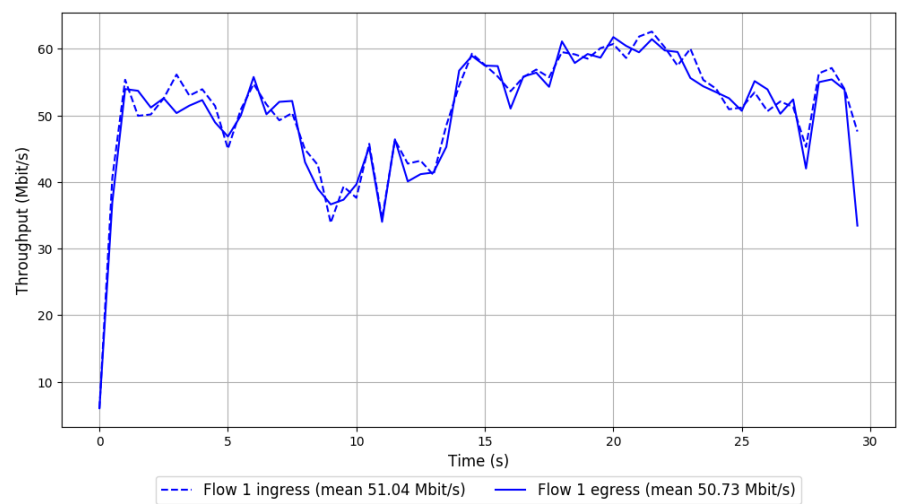
Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 57.074 ms

Loss rate: 1.27%



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 05:45:55

End at: 2018-04-24 05:46:25

Local clock offset: 0.616 ms

Remote clock offset: 1.795 ms

# Below is generated by plot.py at 2018-04-24 12:28:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 49.542 ms

Loss rate: 0.94%

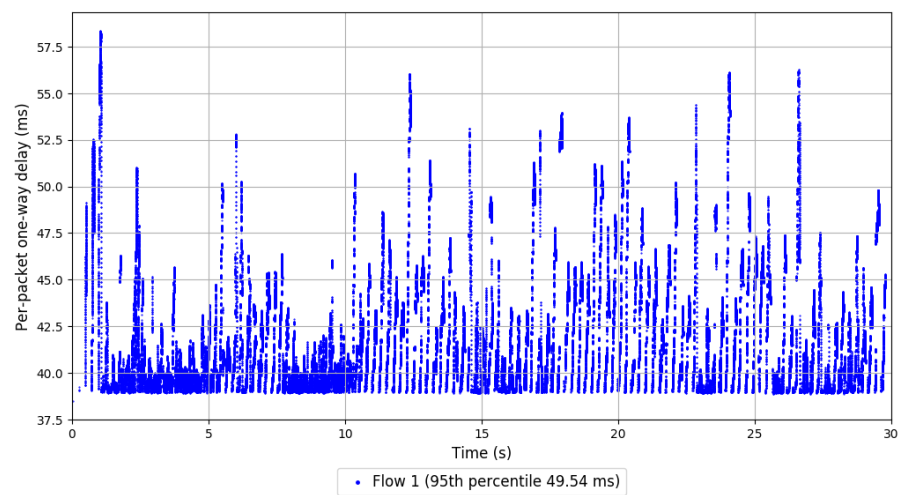
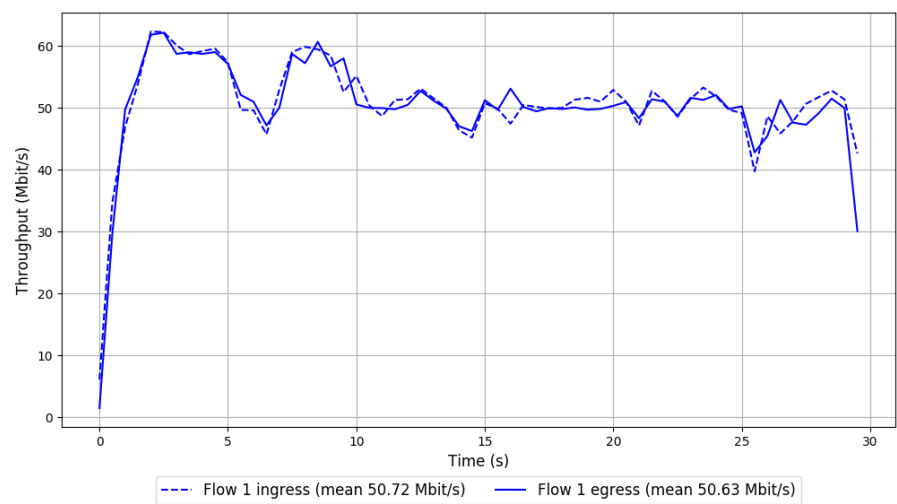
-- Flow 1:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 49.542 ms

Loss rate: 0.94%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 06:07:16

End at: 2018-04-24 06:07:46

Local clock offset: 2.084 ms

Remote clock offset: 30.589 ms

# Below is generated by plot.py at 2018-04-24 12:28:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.07 Mbit/s

95th percentile per-packet one-way delay: 53.055 ms

Loss rate: 1.13%

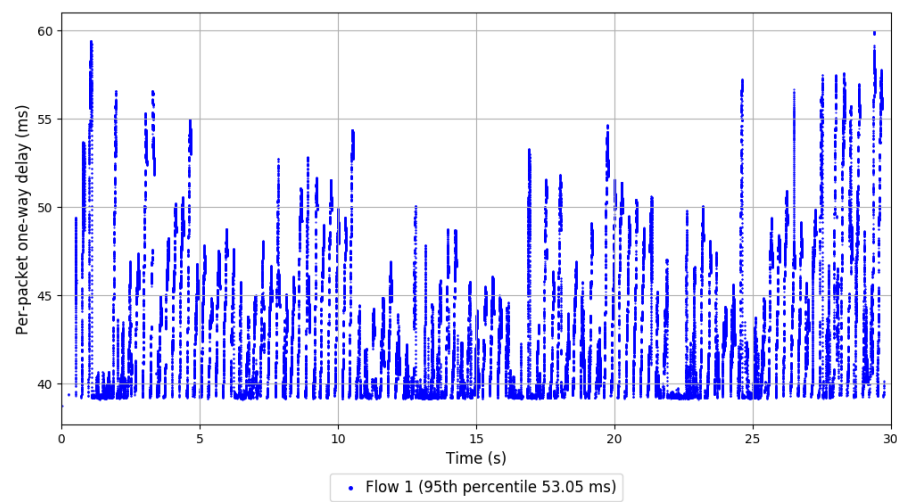
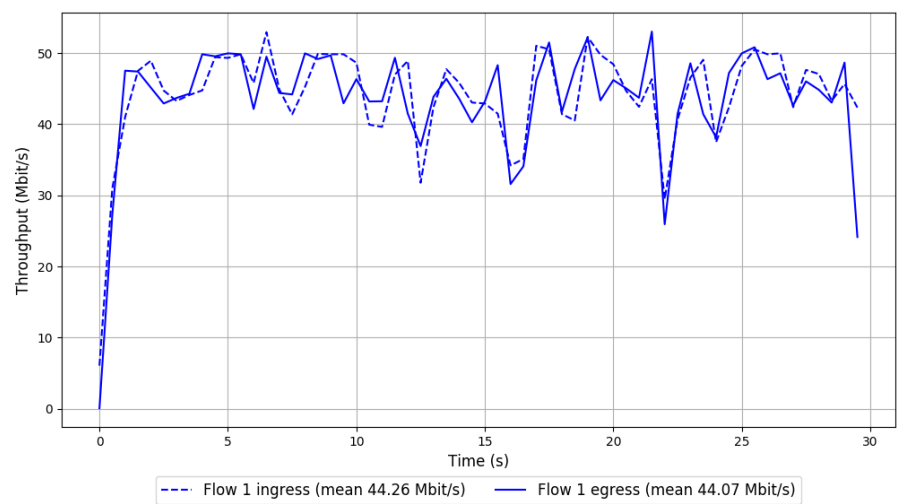
-- Flow 1:

Average throughput: 44.07 Mbit/s

95th percentile per-packet one-way delay: 53.055 ms

Loss rate: 1.13%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 06:28:31

End at: 2018-04-24 06:29:01

Local clock offset: 3.278 ms

Remote clock offset: -11.608 ms

# Below is generated by plot.py at 2018-04-24 12:28:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.43 Mbit/s

95th percentile per-packet one-way delay: 53.347 ms

Loss rate: 1.04%

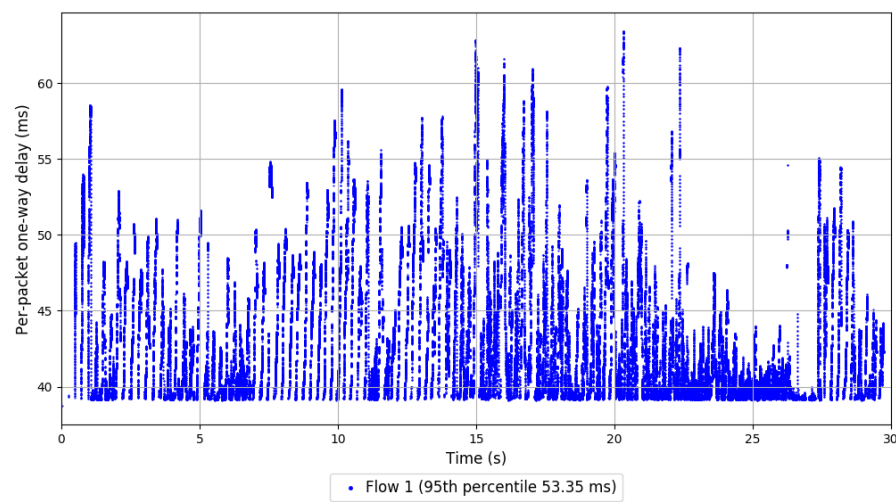
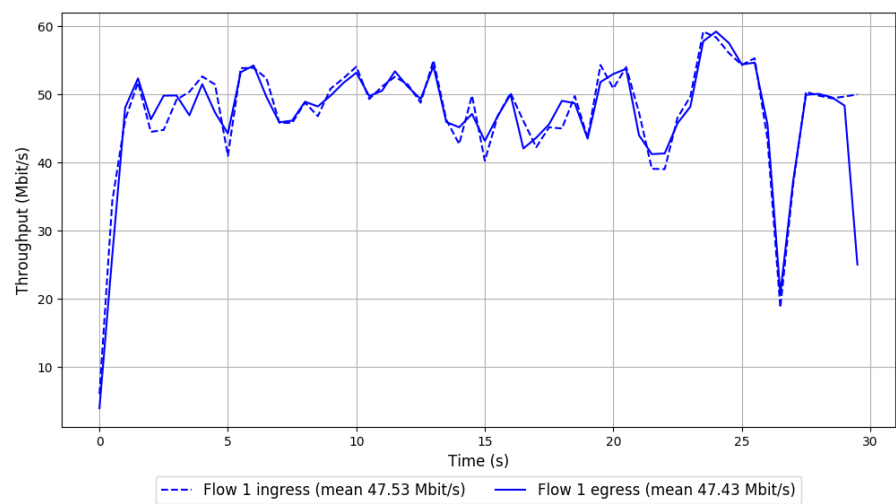
-- Flow 1:

Average throughput: 47.43 Mbit/s

95th percentile per-packet one-way delay: 53.347 ms

Loss rate: 1.04%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 06:49:49

End at: 2018-04-24 06:50:19

Local clock offset: 3.496 ms

Remote clock offset: 9.024 ms

# Below is generated by plot.py at 2018-04-24 12:28:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.56 Mbit/s

95th percentile per-packet one-way delay: 53.527 ms

Loss rate: 0.99%

-- Flow 1:

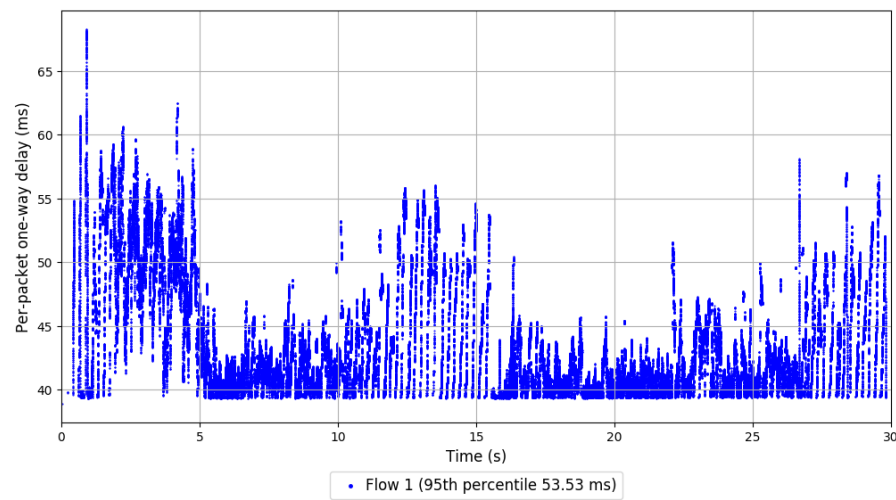
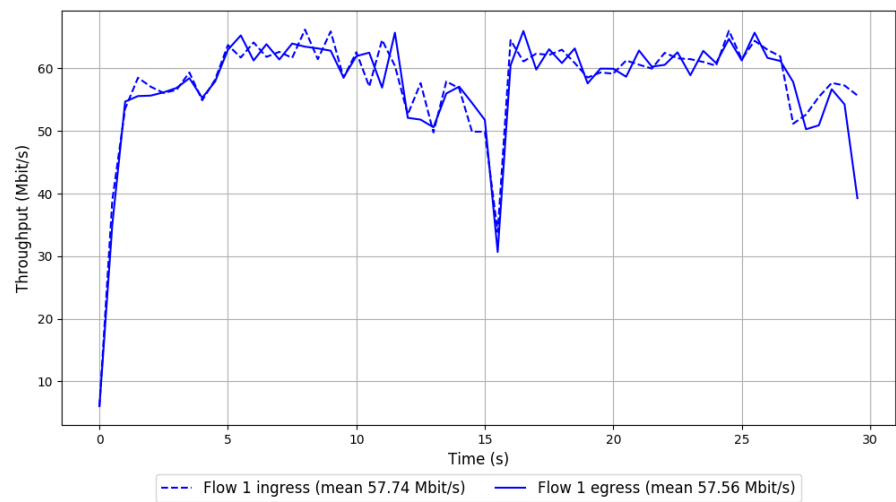
Average throughput: 57.56 Mbit/s

95th percentile per-packet one-way delay: 53.527 ms

Loss rate: 0.99%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 07:11:05

End at: 2018-04-24 07:11:35

Local clock offset: 3.144 ms

Remote clock offset: 44.083 ms

# Below is generated by plot.py at 2018-04-24 12:29:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 54.199 ms

Loss rate: 1.34%

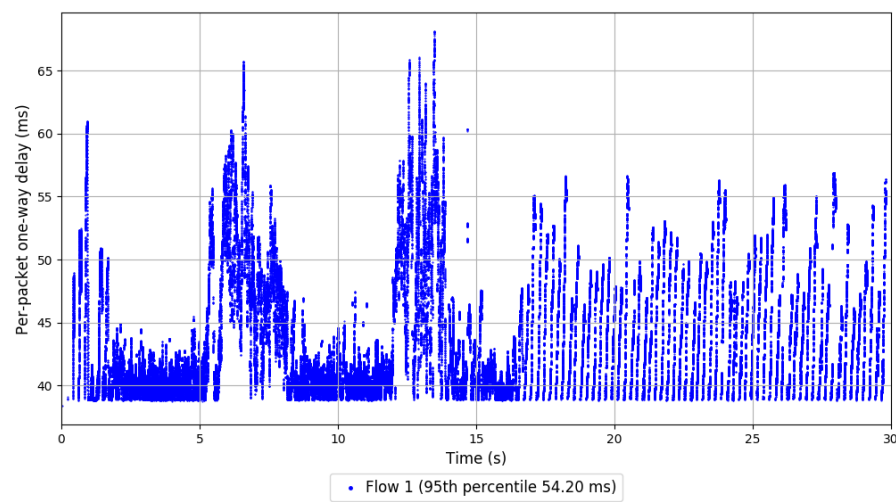
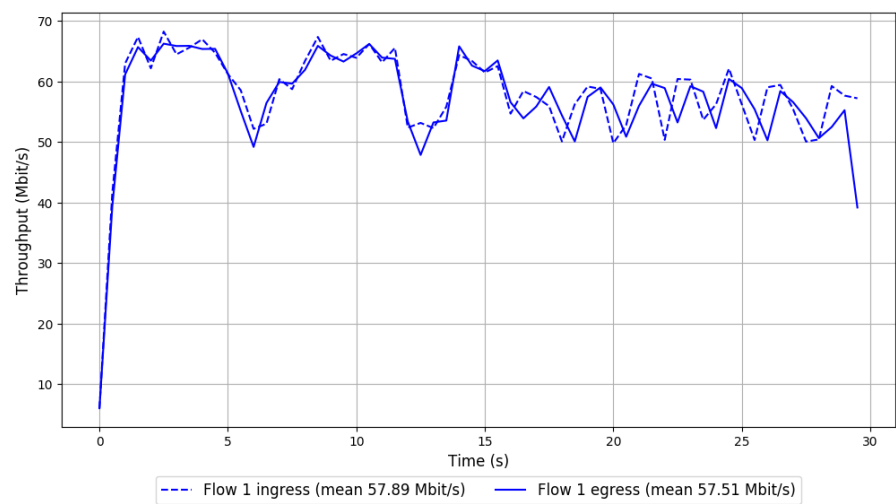
-- Flow 1:

Average throughput: 57.51 Mbit/s

95th percentile per-packet one-way delay: 54.199 ms

Loss rate: 1.34%

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

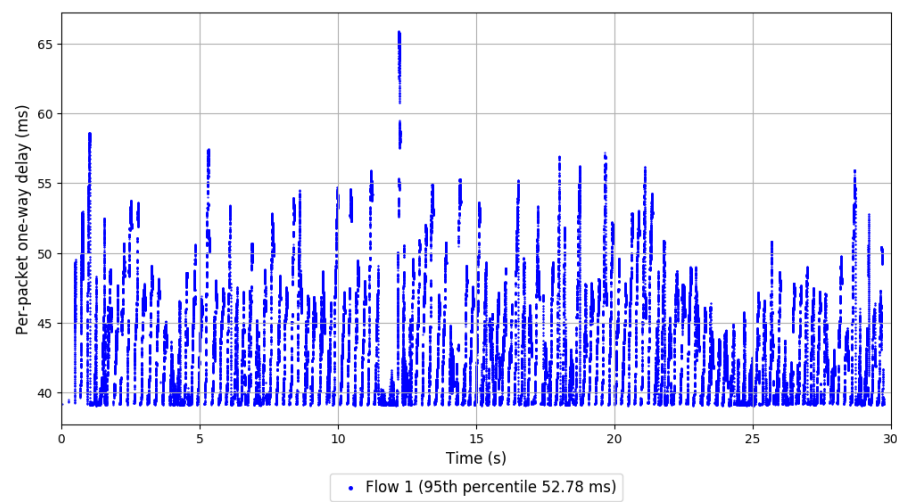
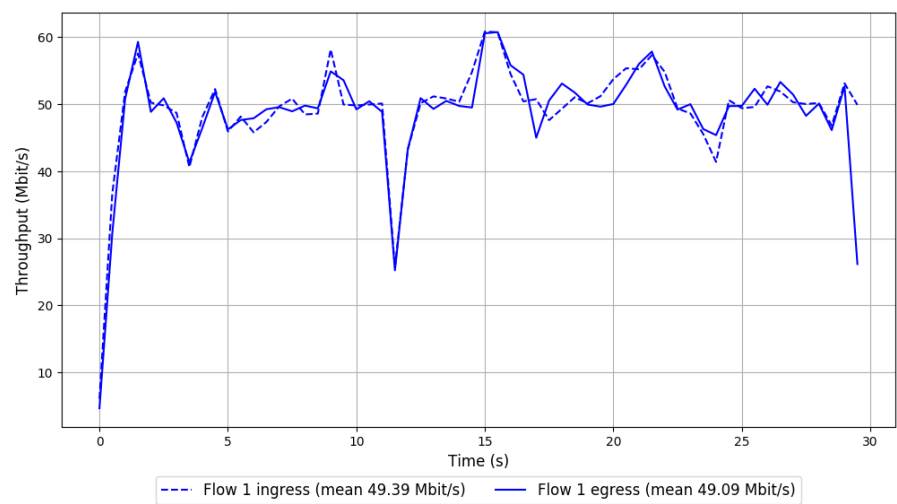


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 07:38:27  
End at: 2018-04-24 07:38:57  
Local clock offset: -3.956 ms  
Remote clock offset: 10.782 ms

# Below is generated by plot.py at 2018-04-24 12:29:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 49.09 Mbit/s  
95th percentile per-packet one-way delay: 52.781 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 49.09 Mbit/s  
95th percentile per-packet one-way delay: 52.781 ms  
Loss rate: 1.20%

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

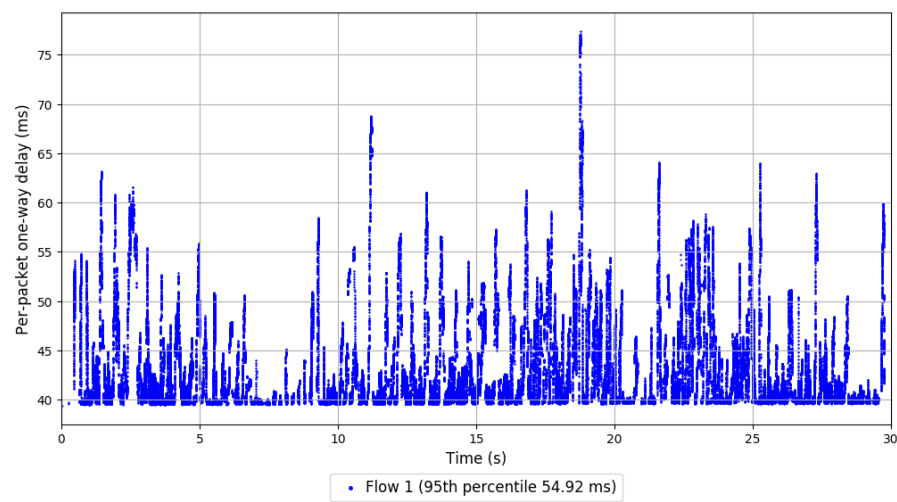
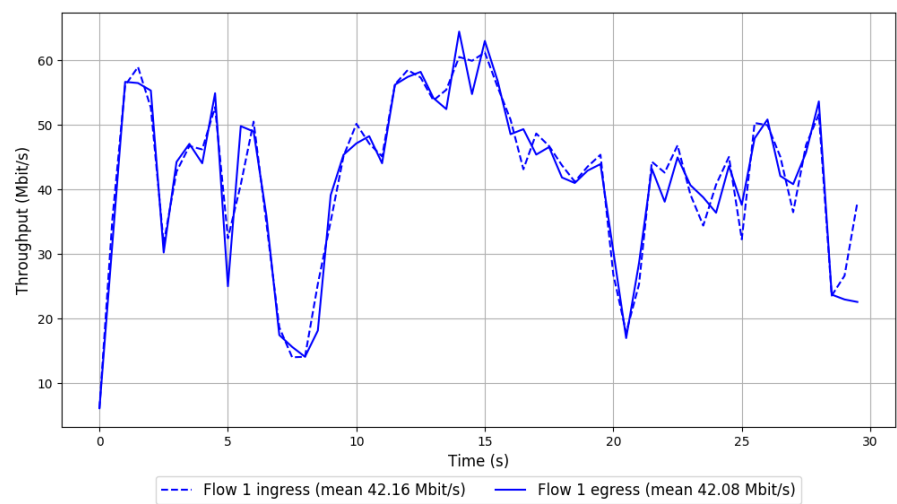


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 07:59:43  
End at: 2018-04-24 08:00:13  
Local clock offset: -3.513 ms  
Remote clock offset: 29.659 ms

# Below is generated by plot.py at 2018-04-24 12:29:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 42.08 Mbit/s  
95th percentile per-packet one-way delay: 54.919 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 42.08 Mbit/s  
95th percentile per-packet one-way delay: 54.919 ms  
Loss rate: 1.04%

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



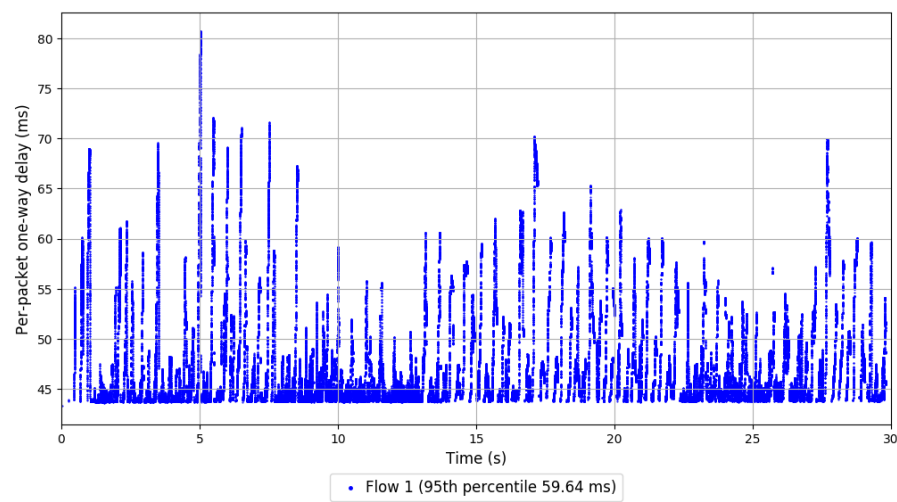
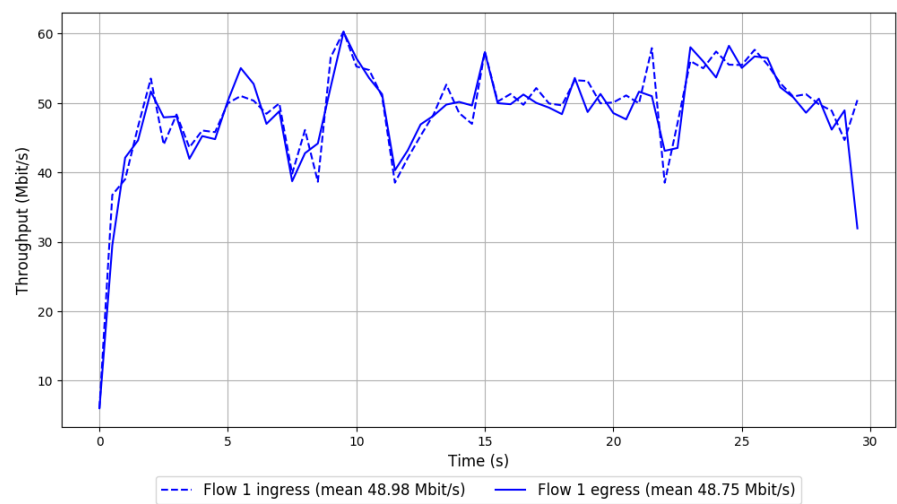
Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 08:21:12  
End at: 2018-04-24 08:21:42  
Local clock offset: -1.378 ms  
Remote clock offset: 29.245 ms

# Below is generated by plot.py at 2018-04-24 12:30:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 48.75 Mbit/s  
95th percentile per-packet one-way delay: 59.639 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 48.75 Mbit/s  
95th percentile per-packet one-way delay: 59.639 ms  
Loss rate: 1.19%



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

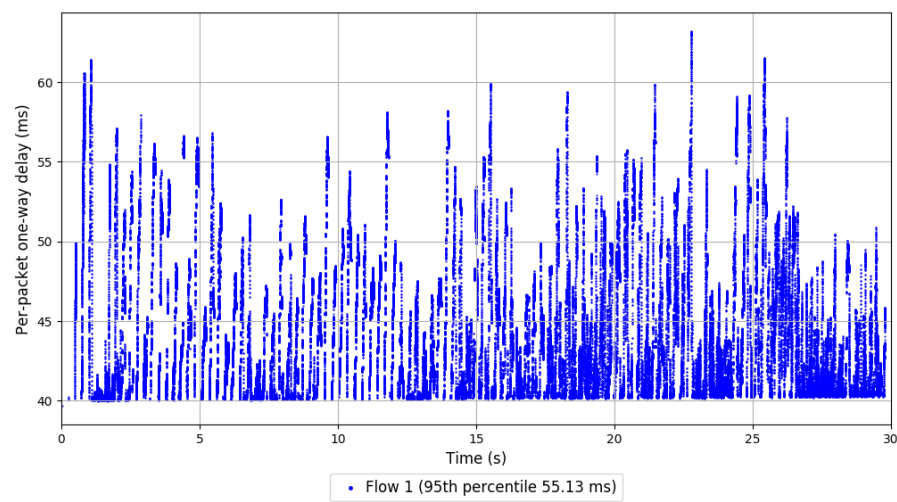
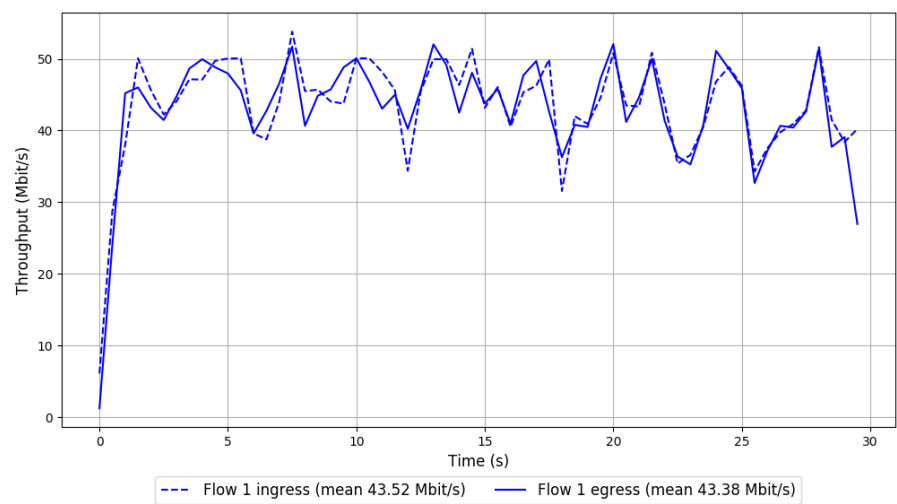


Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 08:43:17  
End at: 2018-04-24 08:43:47  
Local clock offset: -3.841 ms  
Remote clock offset: 23.262 ms

# Below is generated by plot.py at 2018-04-24 12:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 43.38 Mbit/s  
95th percentile per-packet one-way delay: 55.131 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 43.38 Mbit/s  
95th percentile per-packet one-way delay: 55.131 ms  
Loss rate: 1.08%

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

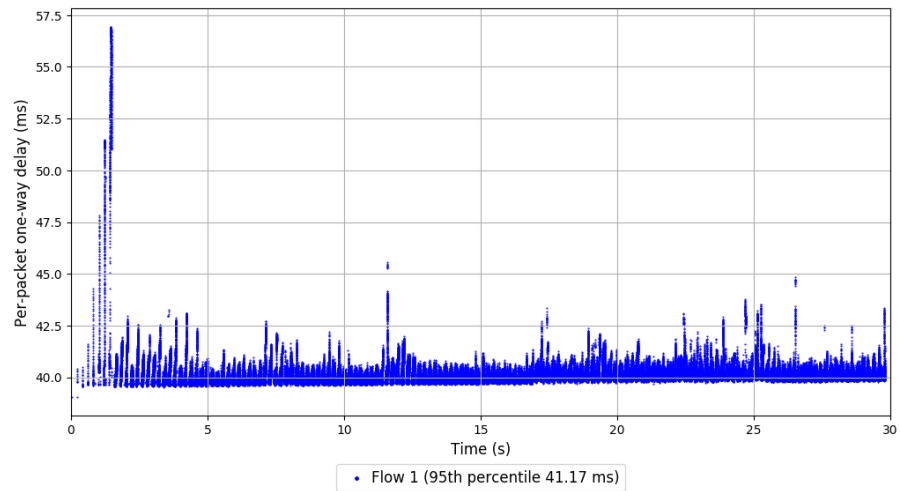
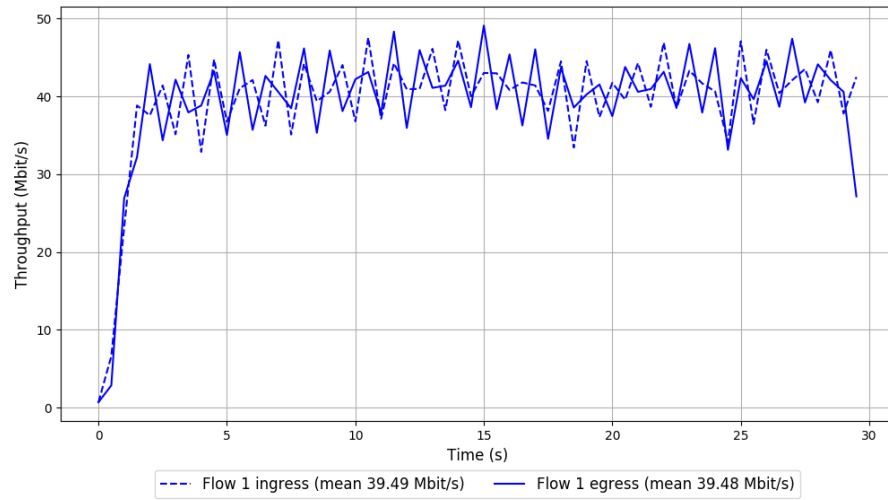


Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 05:13:26  
End at: 2018-04-24 05:13:56  
Local clock offset: -2.056 ms  
Remote clock offset: -1.248 ms

# Below is generated by plot.py at 2018-04-24 12:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 39.48 Mbit/s  
95th percentile per-packet one-way delay: 41.171 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 39.48 Mbit/s  
95th percentile per-packet one-way delay: 41.171 ms  
Loss rate: 0.70%

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

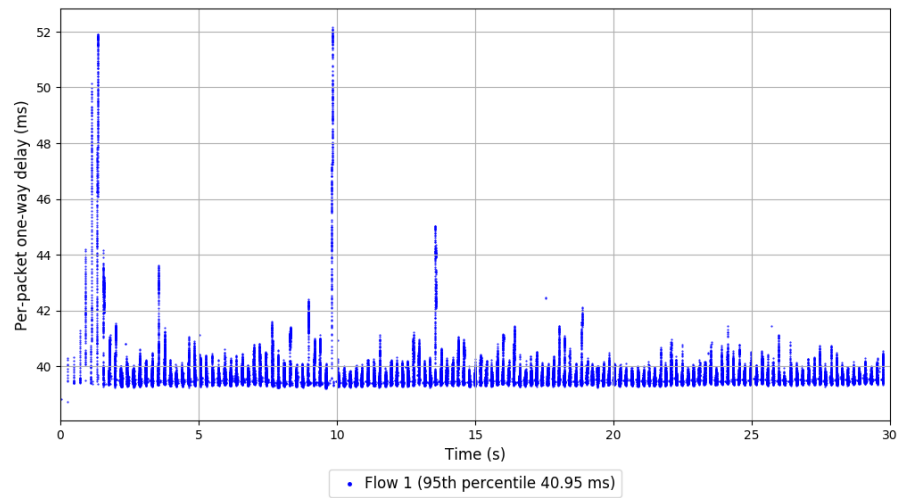
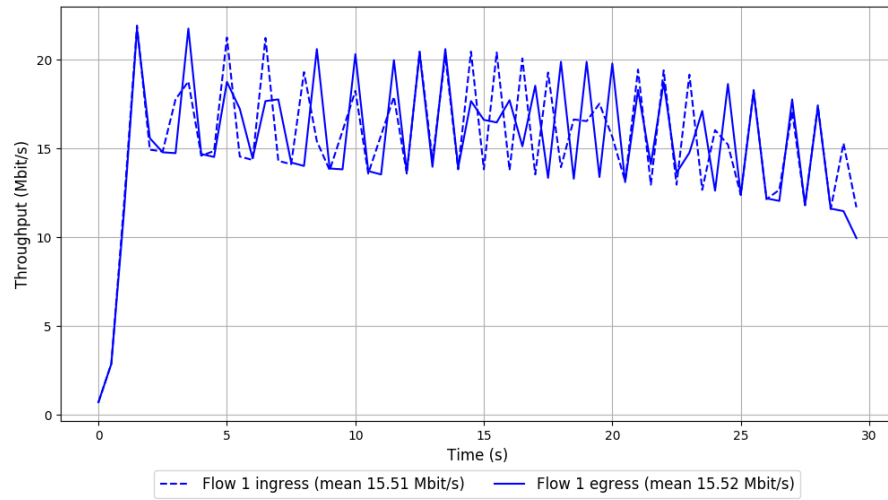


Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 05:34:44  
End at: 2018-04-24 05:35:14  
Local clock offset: -1.721 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-04-24 12:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 15.52 Mbit/s  
95th percentile per-packet one-way delay: 40.949 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 15.52 Mbit/s  
95th percentile per-packet one-way delay: 40.949 ms  
Loss rate: 0.60%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 05:56:03

End at: 2018-04-24 05:56:33

Local clock offset: 1.621 ms

Remote clock offset: 2.698 ms

# Below is generated by plot.py at 2018-04-24 12:30:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 40.902 ms

Loss rate: 0.68%

-- Flow 1:

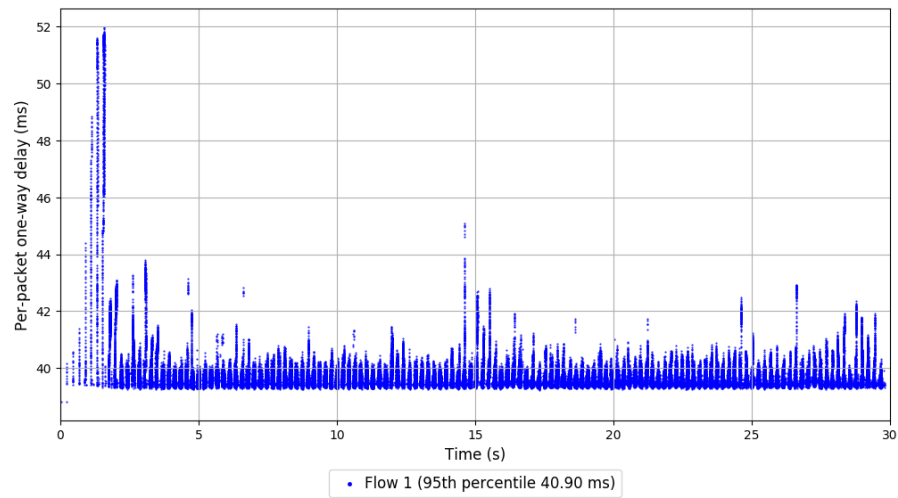
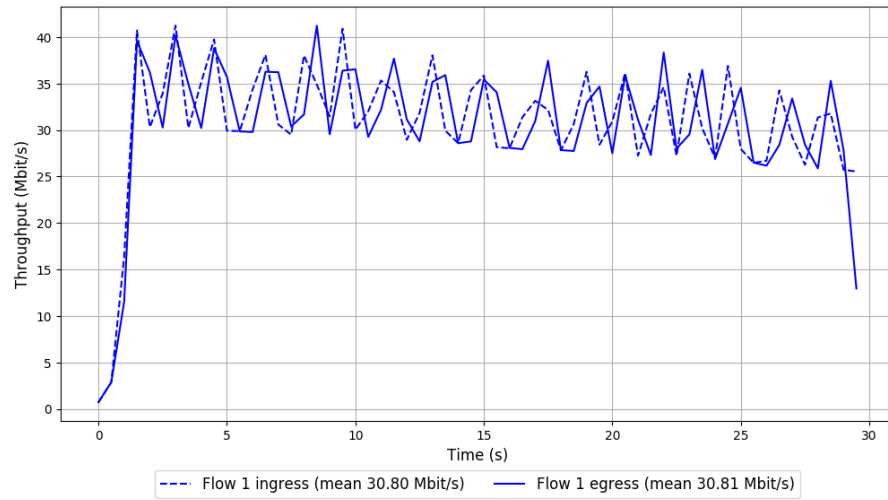
Average throughput: 30.81 Mbit/s

95th percentile per-packet one-way delay: 40.902 ms

Loss rate: 0.68%



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

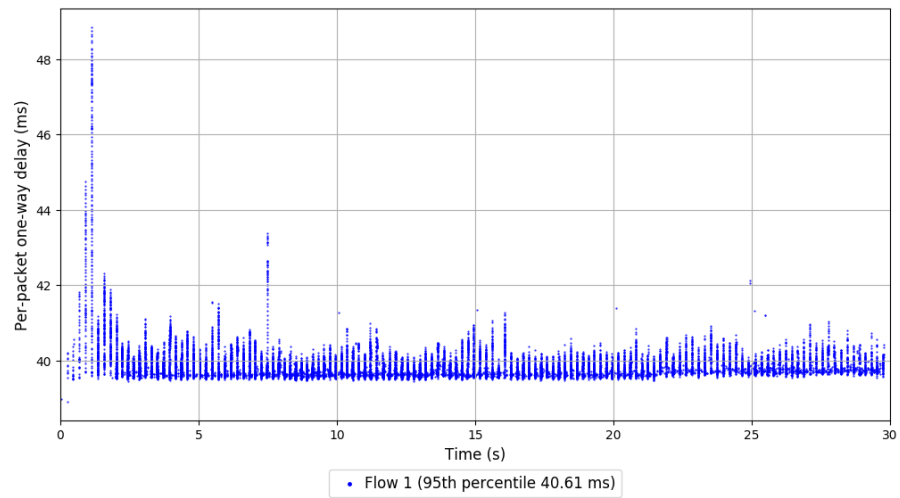
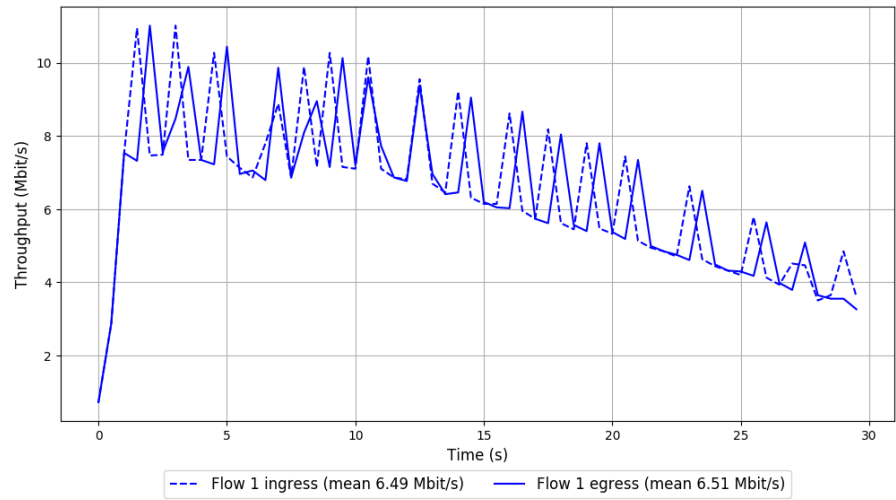


Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 06:17:22  
End at: 2018-04-24 06:17:52  
Local clock offset: 2.509 ms  
Remote clock offset: -12.201 ms

# Below is generated by plot.py at 2018-04-24 12:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.51 Mbit/s  
95th percentile per-packet one-way delay: 40.607 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 6.51 Mbit/s  
95th percentile per-packet one-way delay: 40.607 ms  
Loss rate: 0.44%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 06:38:37

End at: 2018-04-24 06:39:07

Local clock offset: 3.625 ms

Remote clock offset: 8.36 ms

# Below is generated by plot.py at 2018-04-24 12:30:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 40.217 ms

Loss rate: 0.46%

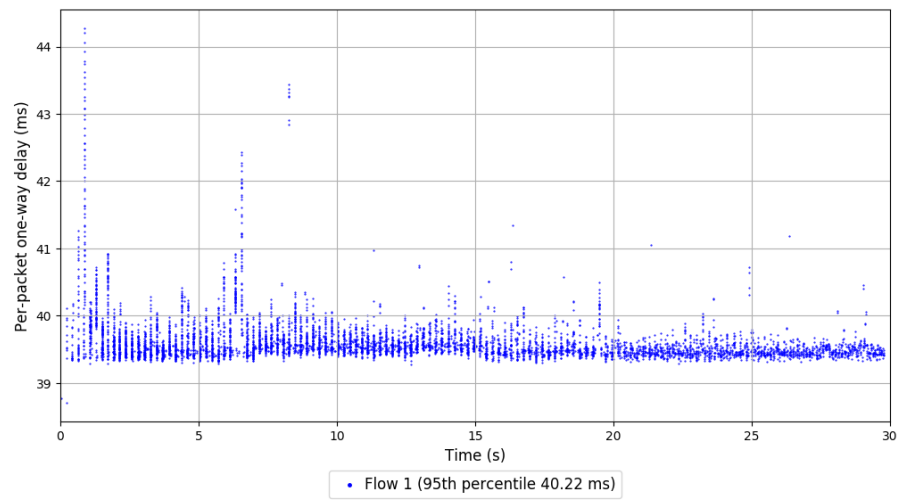
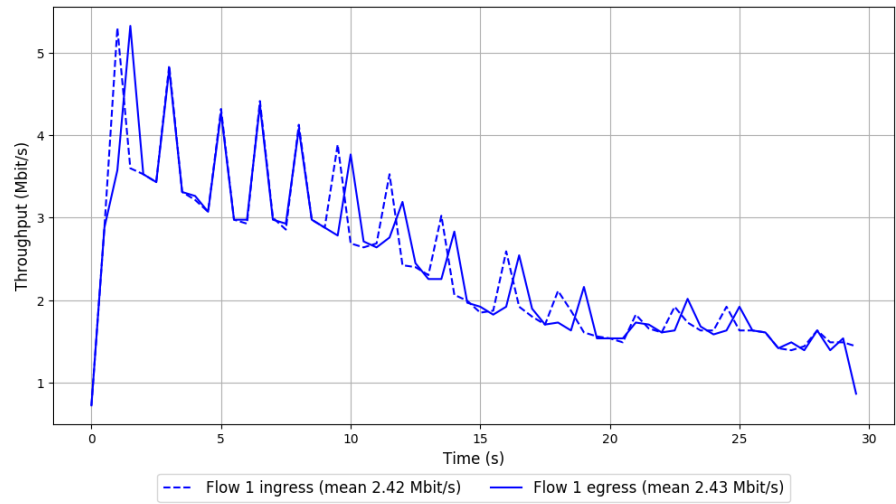
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 40.217 ms

Loss rate: 0.46%

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

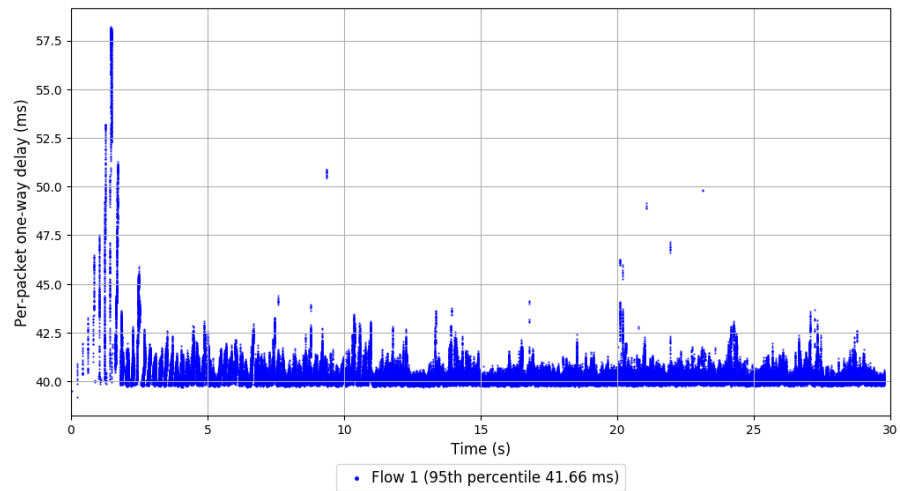
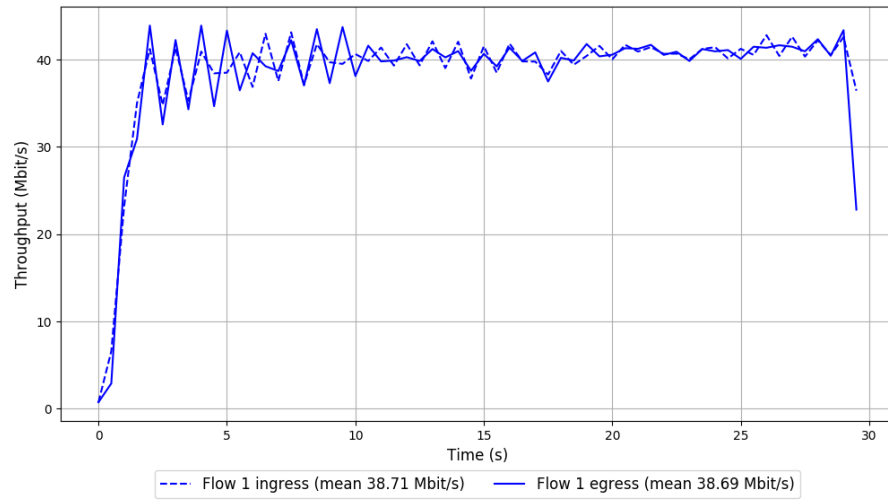


Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 06:59:53  
End at: 2018-04-24 07:00:23  
Local clock offset: 3.303 ms  
Remote clock offset: 43.172 ms

# Below is generated by plot.py at 2018-04-24 12:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 38.69 Mbit/s  
95th percentile per-packet one-way delay: 41.656 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 38.69 Mbit/s  
95th percentile per-packet one-way delay: 41.656 ms  
Loss rate: 0.71%

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



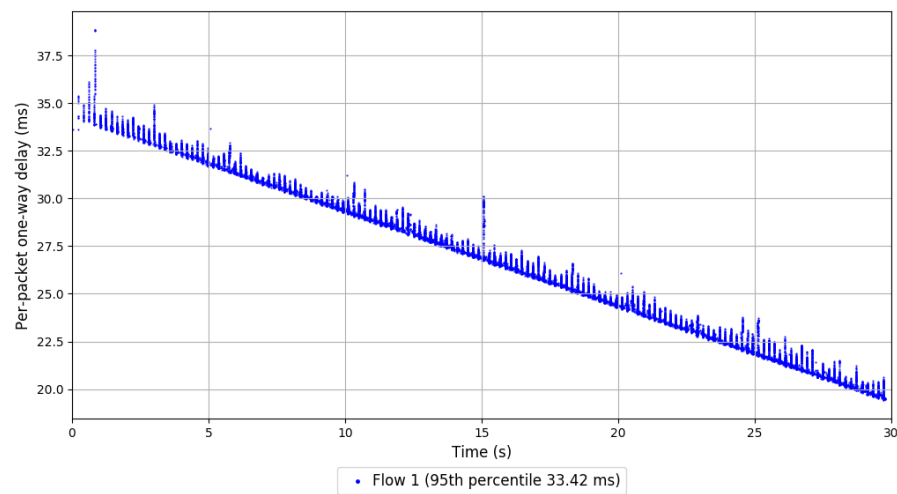
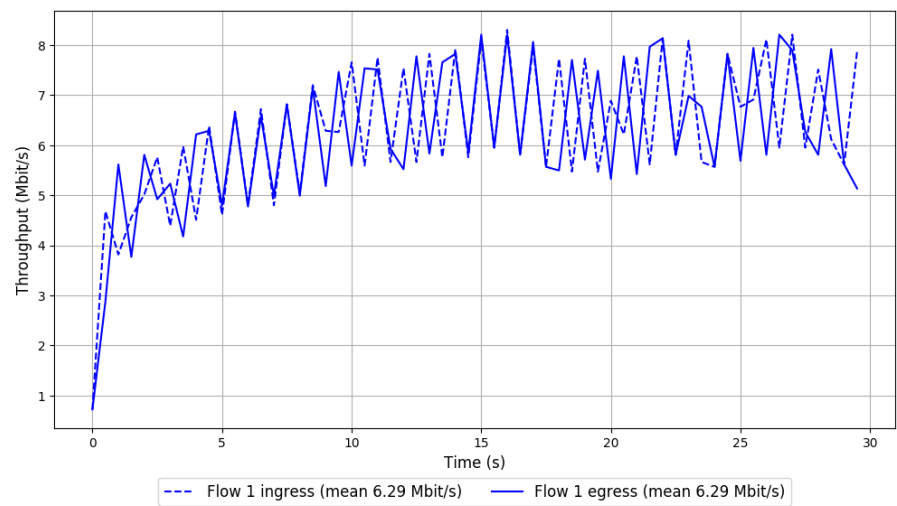
Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 07:26:13  
End at: 2018-04-24 07:26:43  
Local clock offset: -0.49 ms  
Remote clock offset: 36.322 ms

# Below is generated by plot.py at 2018-04-24 12:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.29 Mbit/s  
95th percentile per-packet one-way delay: 33.425 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 6.29 Mbit/s  
95th percentile per-packet one-way delay: 33.425 ms  
Loss rate: 0.73%



Run 7: Report of TCP Vegas — Data Link

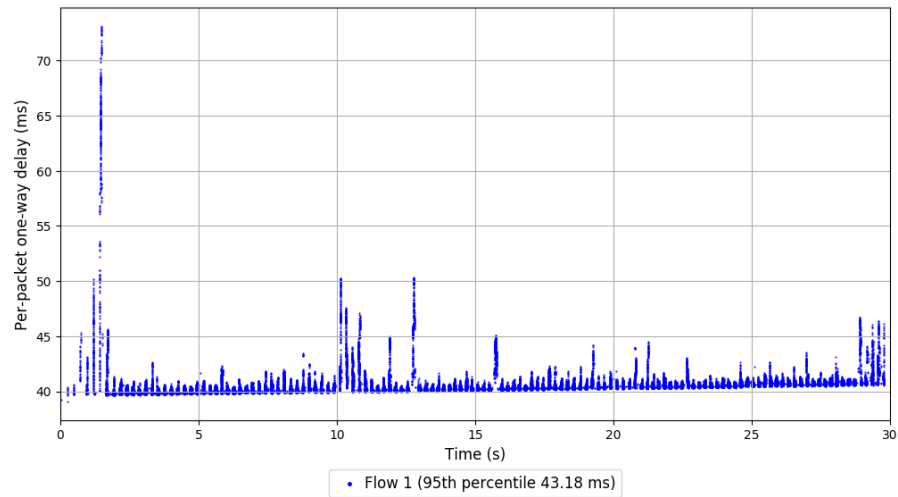
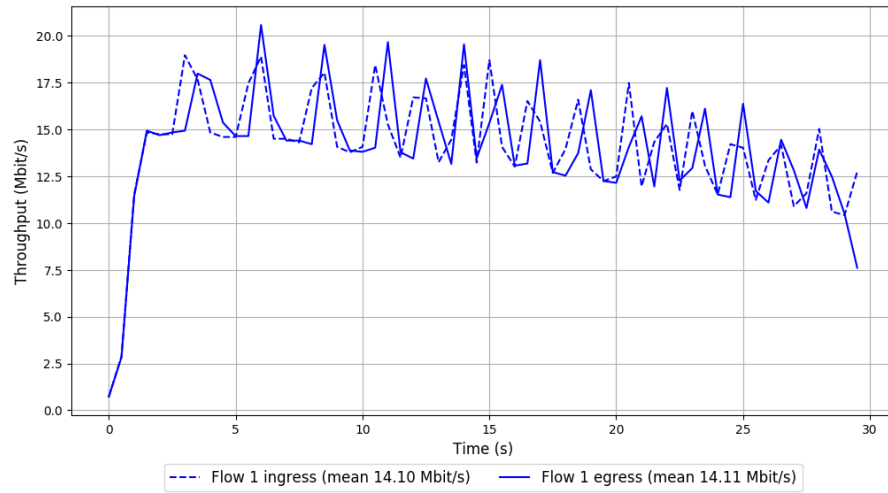


Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 07:48:33  
End at: 2018-04-24 07:49:03  
Local clock offset: -5.676 ms  
Remote clock offset: 10.969 ms

# Below is generated by plot.py at 2018-04-24 12:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 14.11 Mbit/s  
95th percentile per-packet one-way delay: 43.181 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 14.11 Mbit/s  
95th percentile per-packet one-way delay: 43.181 ms  
Loss rate: 0.61%

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

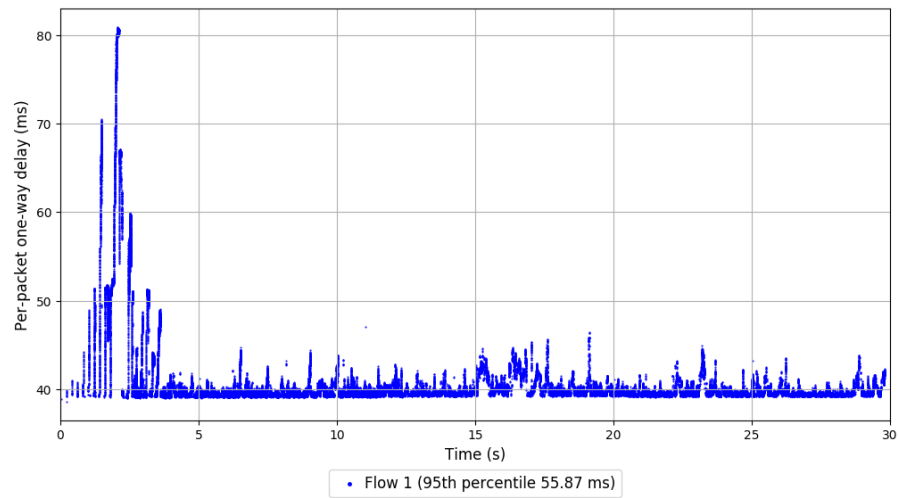
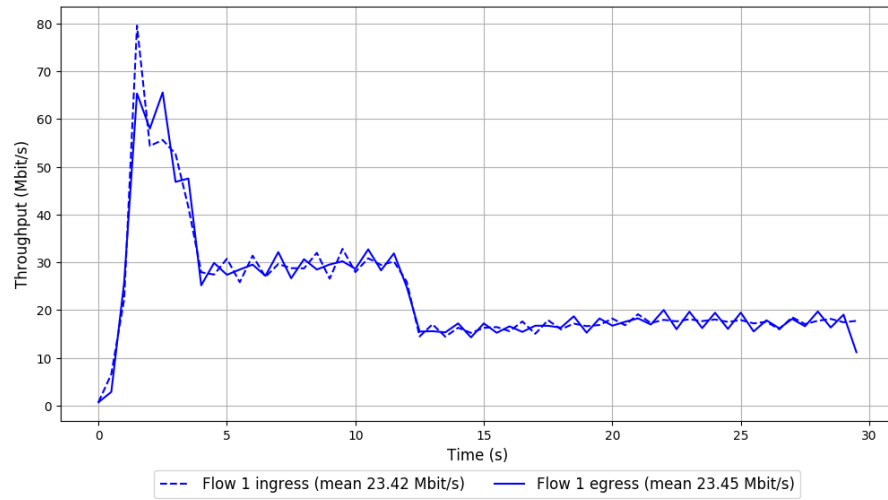


Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 08:09:47  
End at: 2018-04-24 08:10:17  
Local clock offset: -1.955 ms  
Remote clock offset: 33.733 ms

# Below is generated by plot.py at 2018-04-24 12:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.45 Mbit/s  
95th percentile per-packet one-way delay: 55.872 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 23.45 Mbit/s  
95th percentile per-packet one-way delay: 55.872 ms  
Loss rate: 0.52%

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



Run 10: Statistics of TCP Vegas

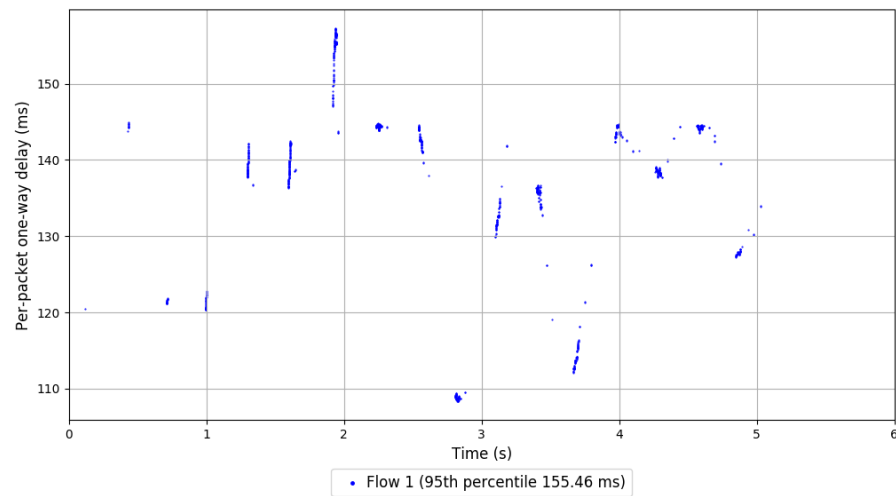
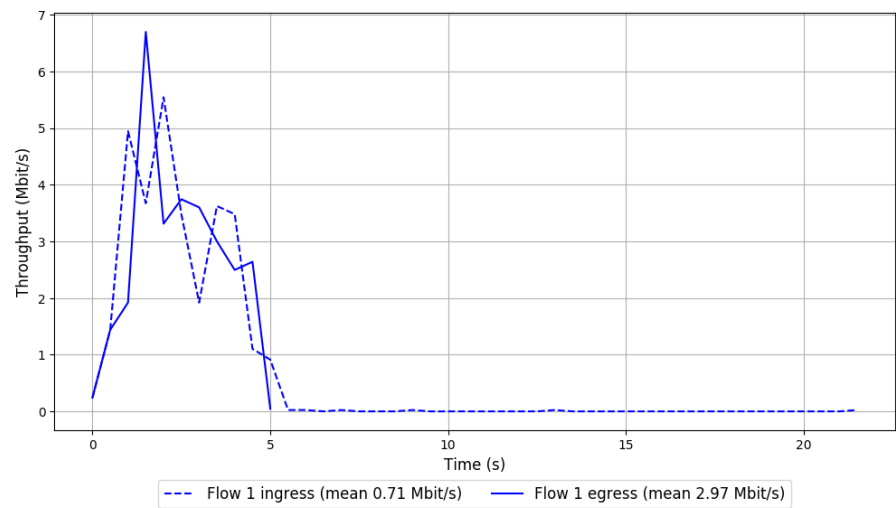
Start at: 2018-04-24 08:31:25

End at: 2018-04-24 08:31:55

Local clock offset: -1.942 ms

Remote clock offset: 41.019 ms

Run 10: Report of TCP Vegas — Data Link



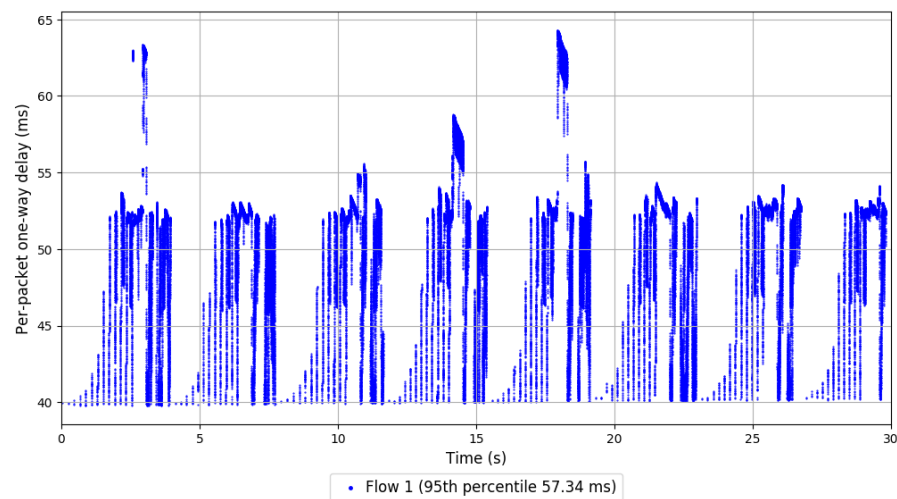
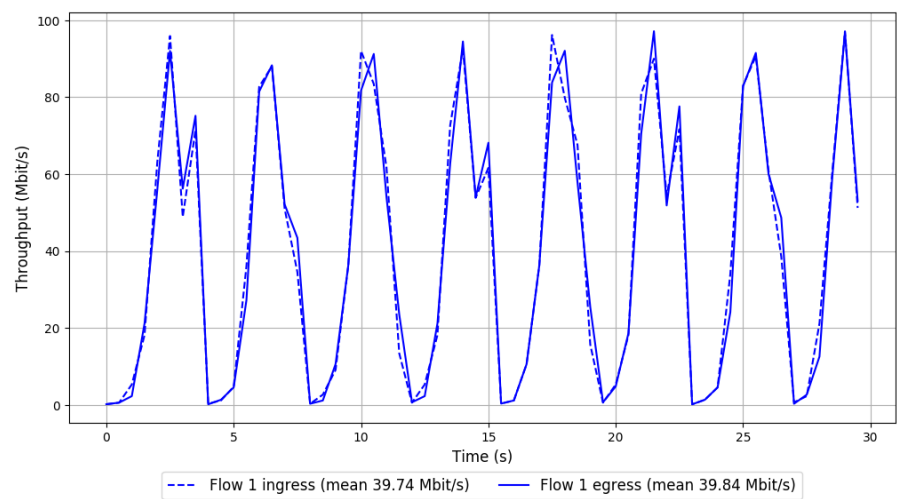
Run 1: Statistics of Verus

Start at: 2018-04-24 05:12:11  
End at: 2018-04-24 05:12:41  
Local clock offset: -0.892 ms  
Remote clock offset: -1.319 ms

# Below is generated by plot.py at 2018-04-24 12:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 39.84 Mbit/s  
95th percentile per-packet one-way delay: 57.338 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 39.84 Mbit/s  
95th percentile per-packet one-way delay: 57.338 ms  
Loss rate: 0.41%



Run 1: Report of Verus — Data Link

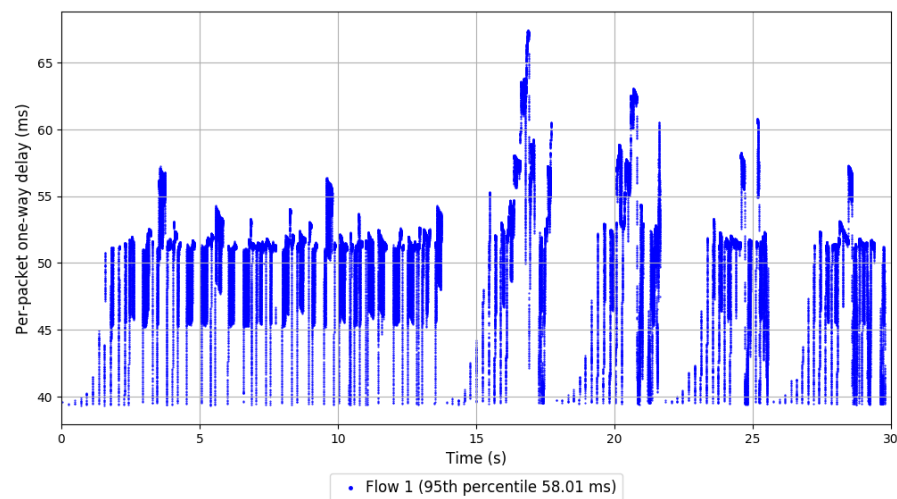
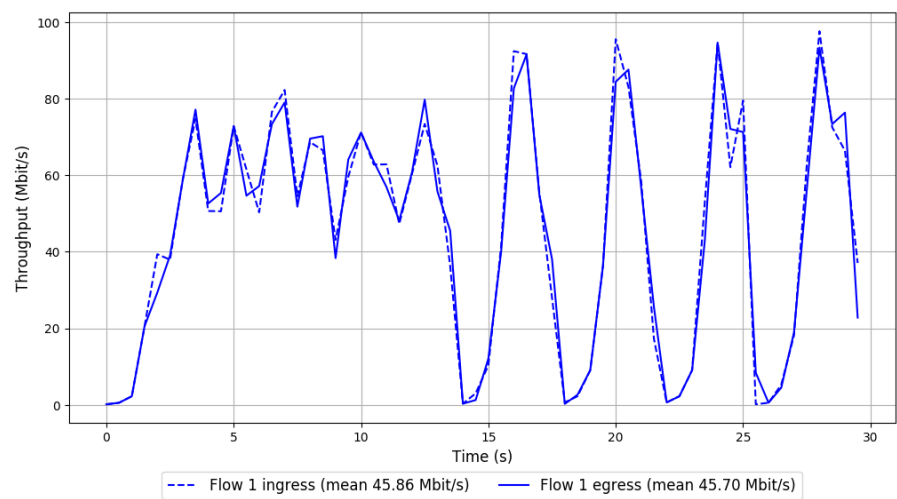


Run 2: Statistics of Verus

Start at: 2018-04-24 05:33:28  
End at: 2018-04-24 05:33:58  
Local clock offset: -1.592 ms  
Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2018-04-24 12:30:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 45.70 Mbit/s  
95th percentile per-packet one-way delay: 58.007 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 45.70 Mbit/s  
95th percentile per-packet one-way delay: 58.007 ms  
Loss rate: 0.58%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-24 05:54:47

End at: 2018-04-24 05:55:17

Local clock offset: 1.616 ms

Remote clock offset: 2.512 ms

# Below is generated by plot.py at 2018-04-24 12:30:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 57.939 ms

Loss rate: 0.18%

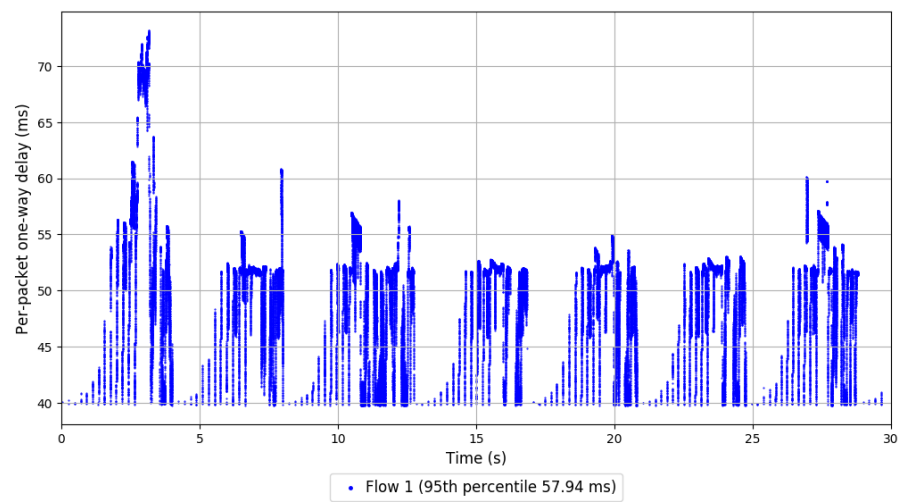
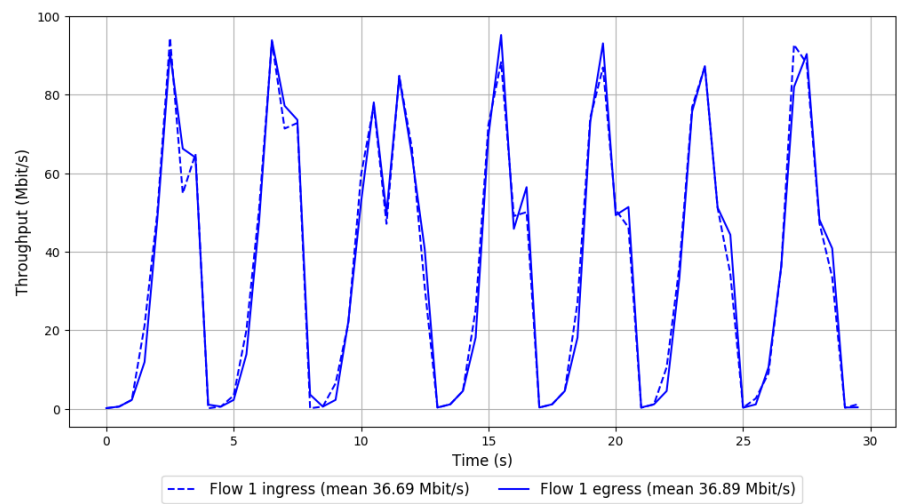
-- Flow 1:

Average throughput: 36.89 Mbit/s

95th percentile per-packet one-way delay: 57.939 ms

Loss rate: 0.18%

Run 3: Report of Verus — Data Link

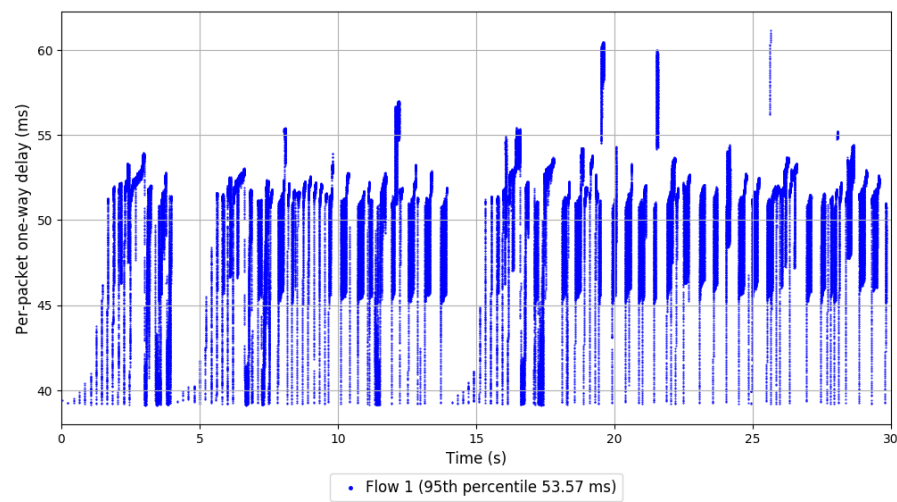
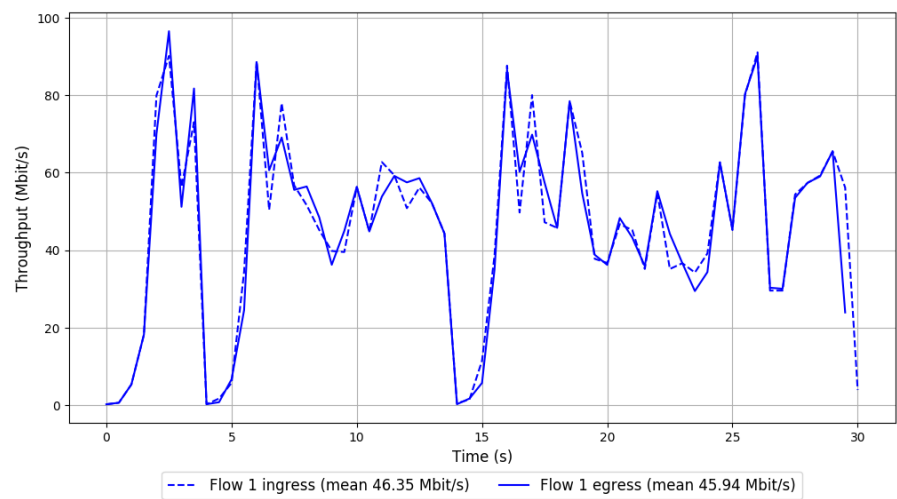


Run 4: Statistics of Verus

Start at: 2018-04-24 06:16:06  
End at: 2018-04-24 06:16:36  
Local clock offset: 2.596 ms  
Remote clock offset: -12.225 ms

# Below is generated by plot.py at 2018-04-24 12:30:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 45.94 Mbit/s  
95th percentile per-packet one-way delay: 53.566 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 45.94 Mbit/s  
95th percentile per-packet one-way delay: 53.566 ms  
Loss rate: 1.66%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-24 06:37:22

End at: 2018-04-24 06:37:52

Local clock offset: 3.574 ms

Remote clock offset: 8.379 ms

# Below is generated by plot.py at 2018-04-24 12:30:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 60.764 ms

Loss rate: 0.21%

-- Flow 1:

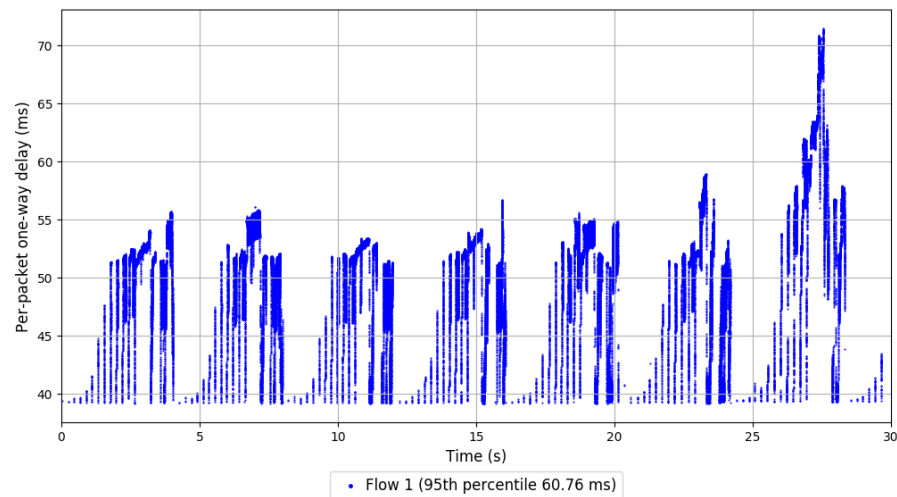
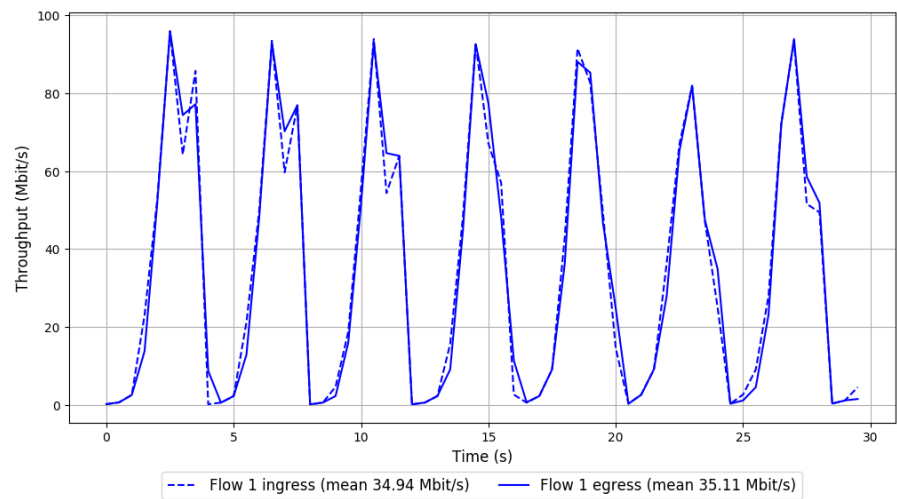
Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 60.764 ms

Loss rate: 0.21%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-24 06:58:37

End at: 2018-04-24 06:59:07

Local clock offset: 3.358 ms

Remote clock offset: 43.33 ms

# Below is generated by plot.py at 2018-04-24 12:30:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.19 Mbit/s

95th percentile per-packet one-way delay: 67.713 ms

Loss rate: 1.99%

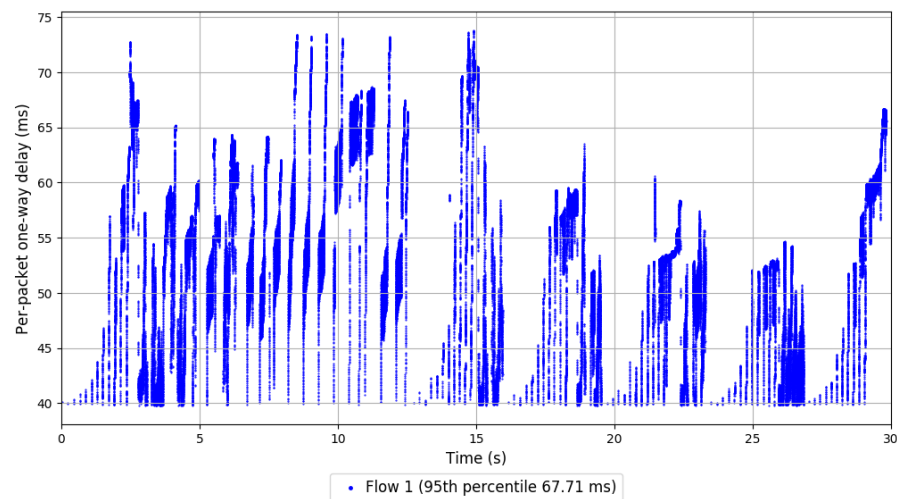
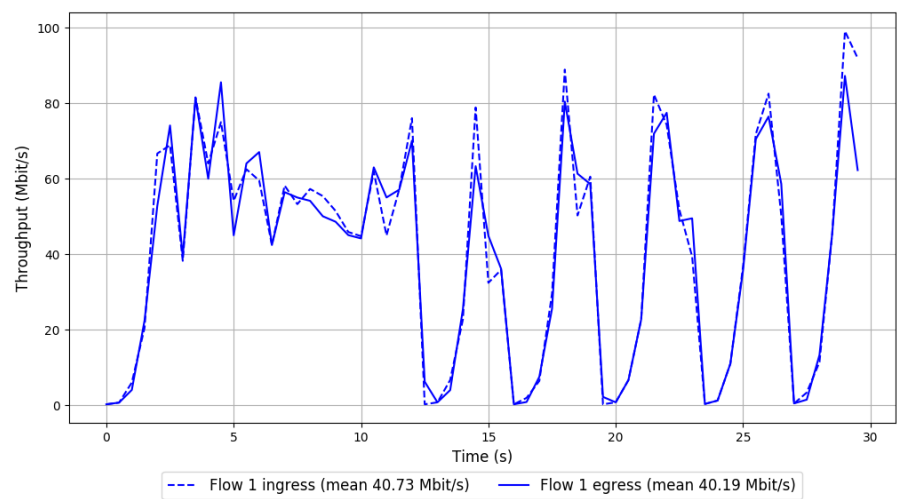
-- Flow 1:

Average throughput: 40.19 Mbit/s

95th percentile per-packet one-way delay: 67.713 ms

Loss rate: 1.99%

Run 6: Report of Verus — Data Link

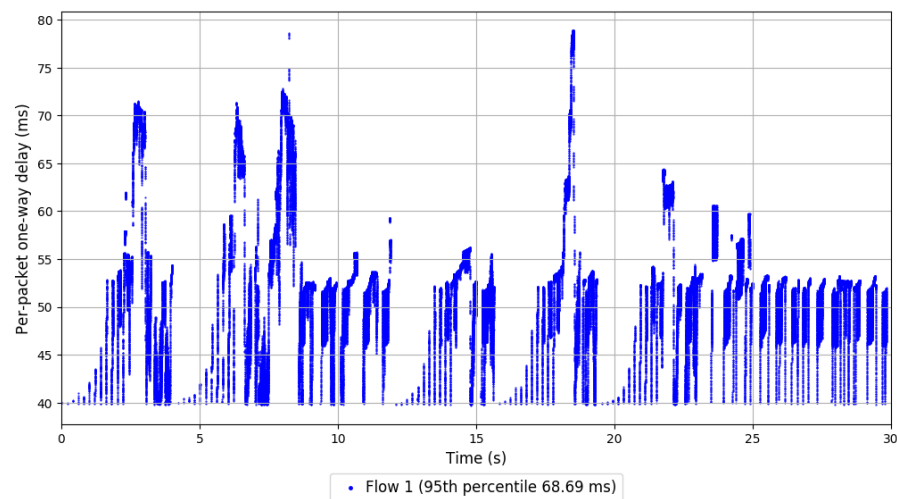
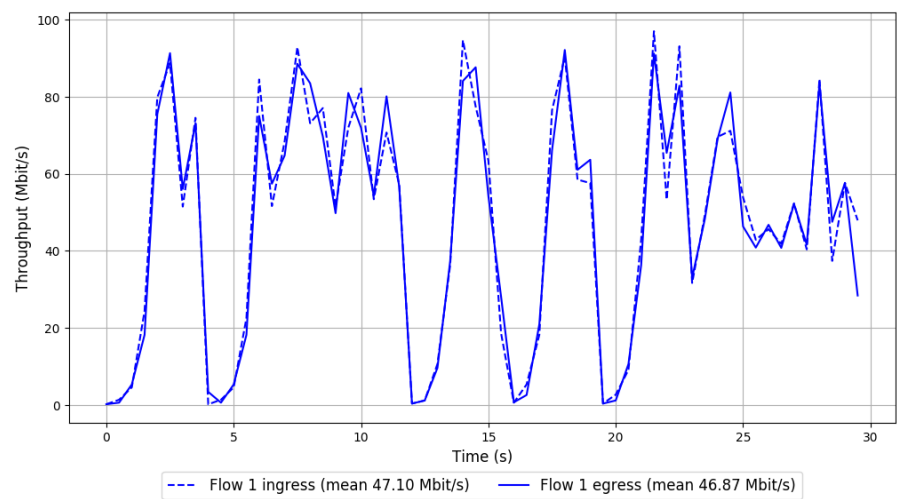


Run 7: Statistics of Verus

Start at: 2018-04-24 07:24:57  
End at: 2018-04-24 07:25:27  
Local clock offset: 0.273 ms  
Remote clock offset: 36.652 ms

# Below is generated by plot.py at 2018-04-24 12:30:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.87 Mbit/s  
95th percentile per-packet one-way delay: 68.689 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 46.87 Mbit/s  
95th percentile per-packet one-way delay: 68.689 ms  
Loss rate: 0.98%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-24 07:47:16

End at: 2018-04-24 07:47:46

Local clock offset: -5.387 ms

Remote clock offset: 9.554 ms

# Below is generated by plot.py at 2018-04-24 12:30:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 81.009 ms

Loss rate: 2.00%

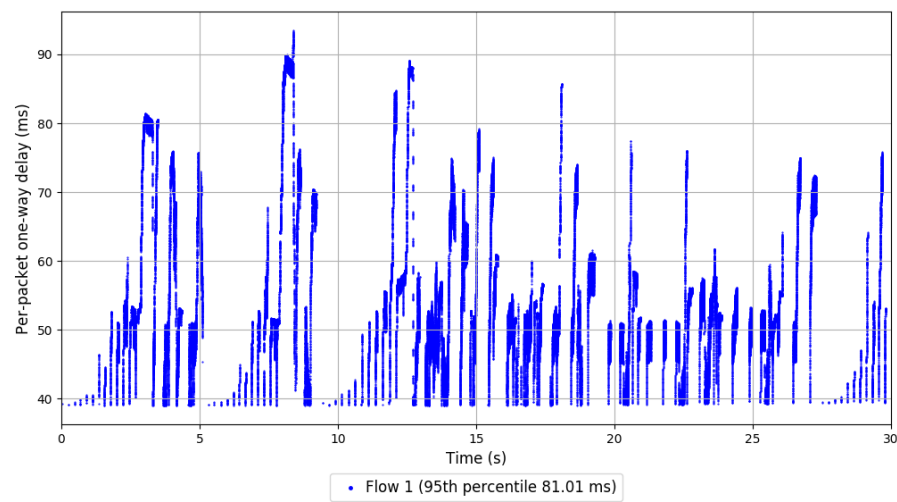
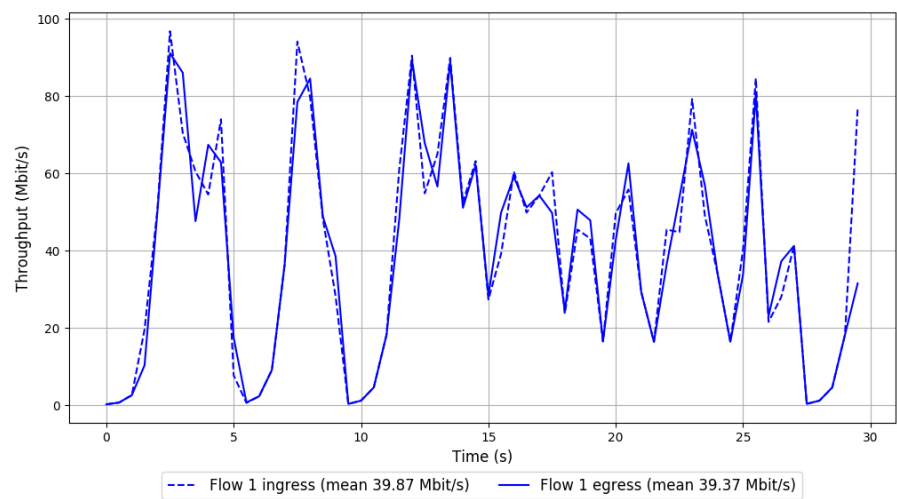
-- Flow 1:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 81.009 ms

Loss rate: 2.00%

Run 8: Report of Verus — Data Link



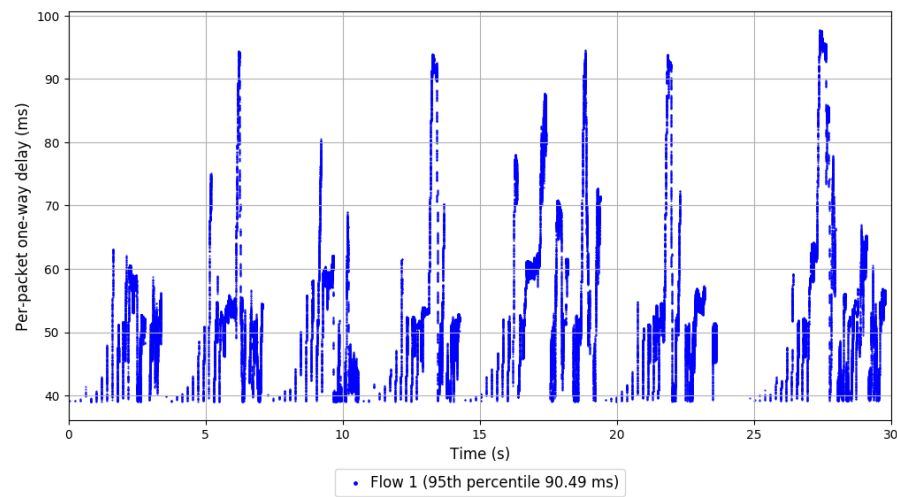
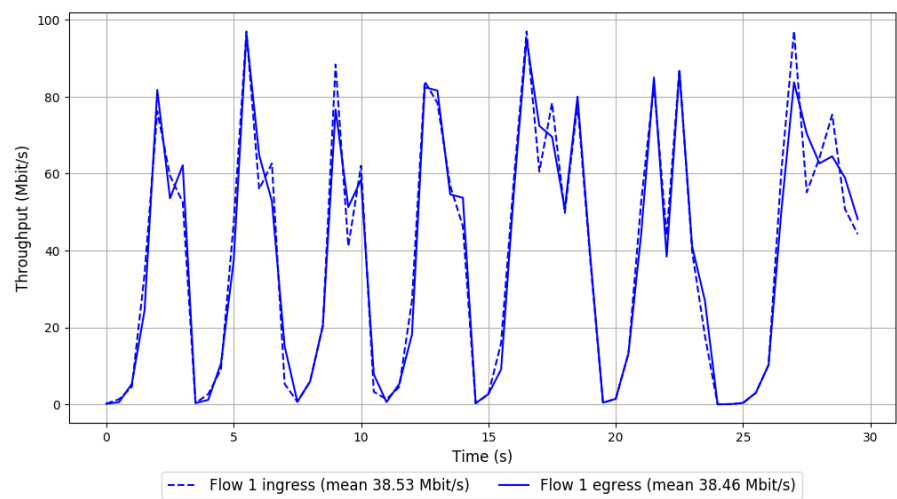
Run 9: Statistics of Verus

Start at: 2018-04-24 08:08:32  
End at: 2018-04-24 08:09:02  
Local clock offset: -1.875 ms  
Remote clock offset: 33.409 ms

# Below is generated by plot.py at 2018-04-24 12:30:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 38.46 Mbit/s  
95th percentile per-packet one-way delay: 90.486 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 38.46 Mbit/s  
95th percentile per-packet one-way delay: 90.486 ms  
Loss rate: 0.87%



Run 9: Report of Verus — Data Link

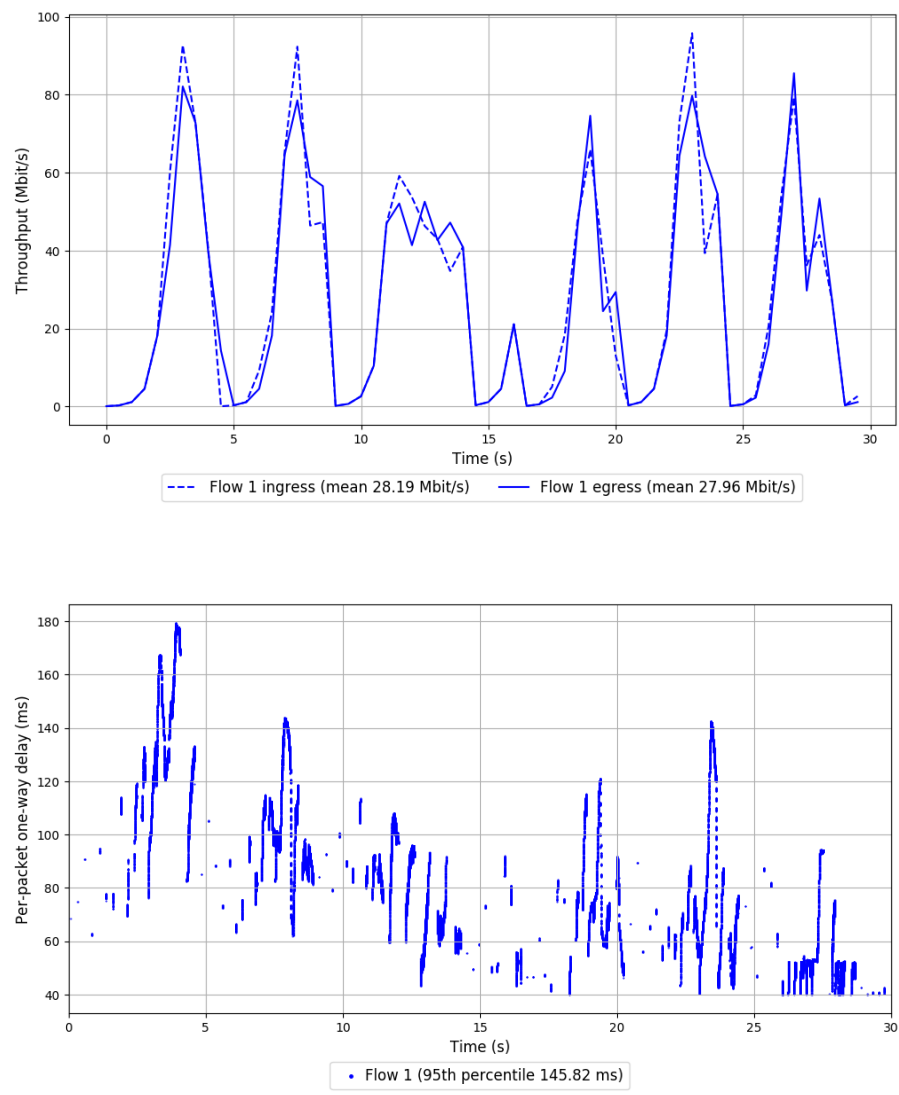


Run 10: Statistics of Verus

Start at: 2018-04-24 08:30:04  
End at: 2018-04-24 08:30:34  
Local clock offset: -1.577 ms  
Remote clock offset: 40.296 ms

# Below is generated by plot.py at 2018-04-24 12:30:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 27.96 Mbit/s  
95th percentile per-packet one-way delay: 145.817 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 27.96 Mbit/s  
95th percentile per-packet one-way delay: 145.817 ms  
Loss rate: 1.62%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-24 05:08:23

End at: 2018-04-24 05:08:53

Local clock offset: -1.86 ms

Remote clock offset: -1.28 ms

# Below is generated by plot.py at 2018-04-24 12:30:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.69 Mbit/s

95th percentile per-packet one-way delay: 38.819 ms

Loss rate: 3.16%

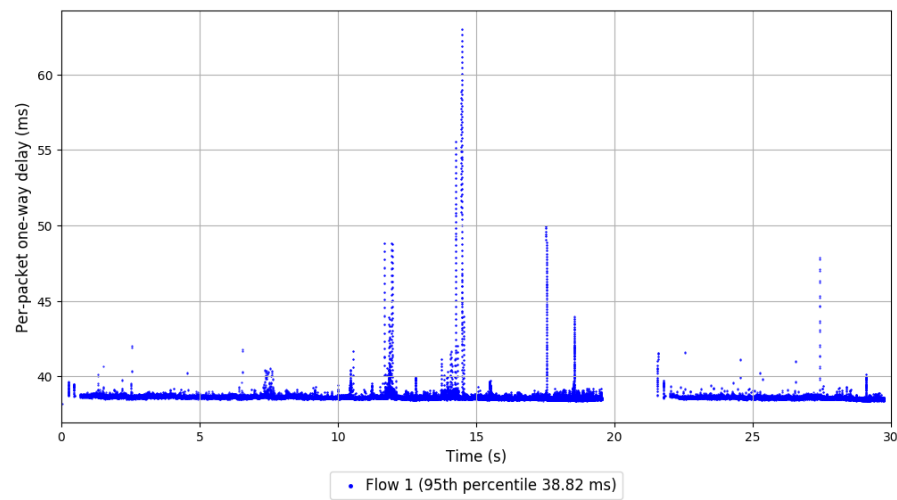
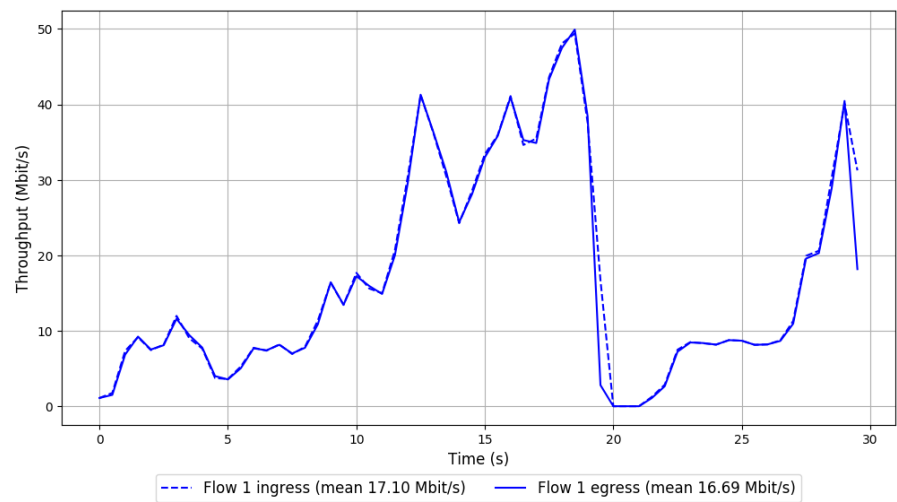
-- Flow 1:

Average throughput: 16.69 Mbit/s

95th percentile per-packet one-way delay: 38.819 ms

Loss rate: 3.16%

Run 1: Report of Copa — Data Link

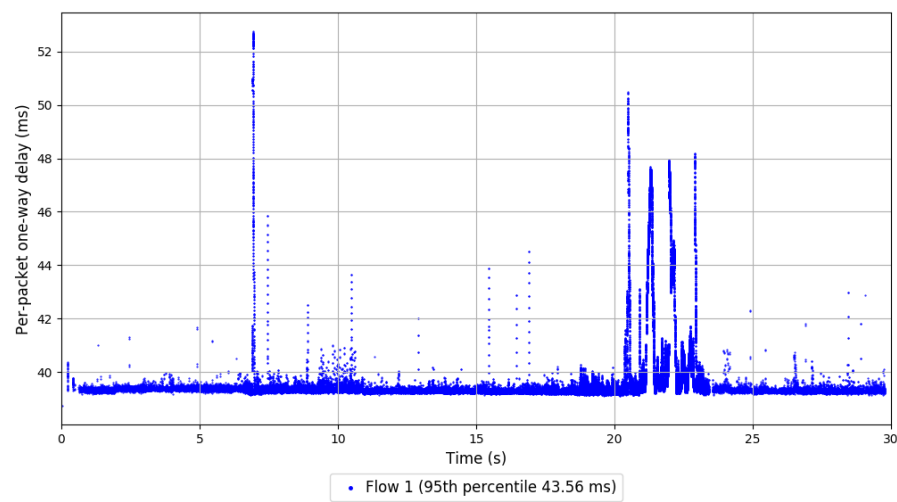
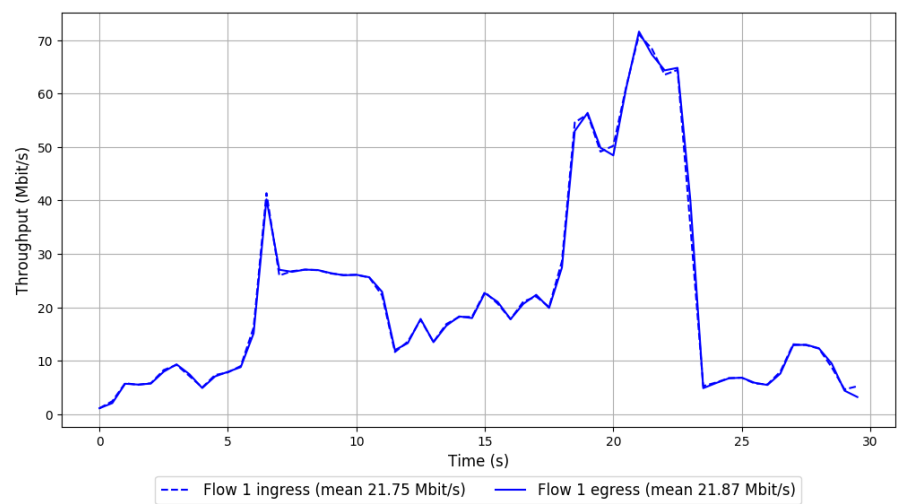


Run 2: Statistics of Copa

Start at: 2018-04-24 05:29:41  
End at: 2018-04-24 05:30:11  
Local clock offset: -1.749 ms  
Remote clock offset: -1.129 ms

# Below is generated by plot.py at 2018-04-24 12:30:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 21.87 Mbit/s  
95th percentile per-packet one-way delay: 43.559 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 21.87 Mbit/s  
95th percentile per-packet one-way delay: 43.559 ms  
Loss rate: 0.19%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-24 05:50:58

End at: 2018-04-24 05:51:28

Local clock offset: 1.047 ms

Remote clock offset: 2.307 ms

# Below is generated by plot.py at 2018-04-24 12:30:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 17.80 Mbit/s

95th percentile per-packet one-way delay: 39.003 ms

Loss rate: 2.02%

-- Flow 1:

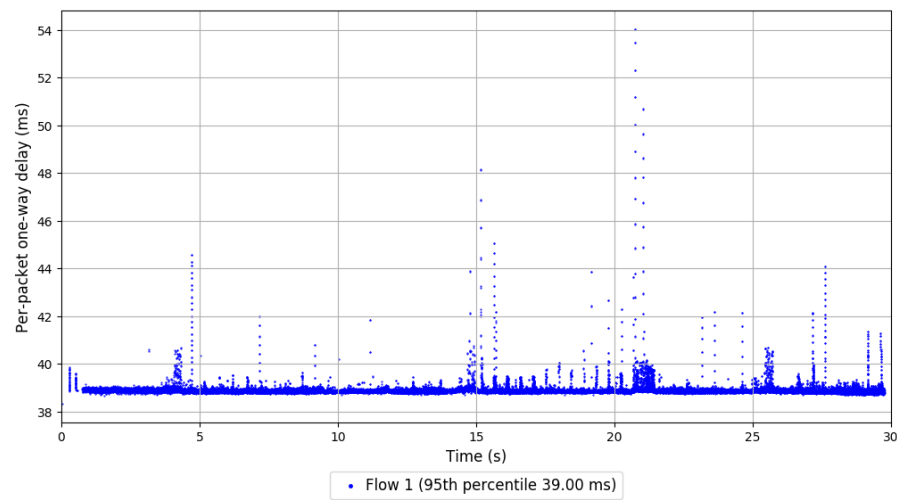
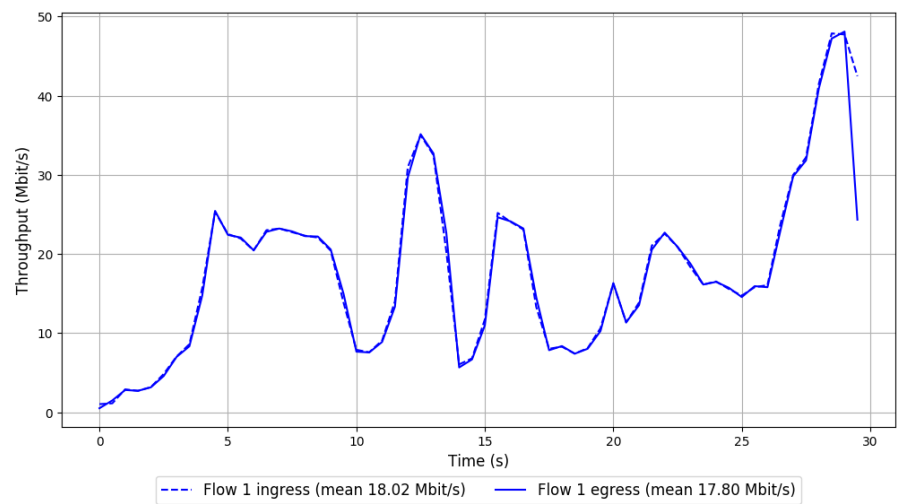
Average throughput: 17.80 Mbit/s

95th percentile per-packet one-way delay: 39.003 ms

Loss rate: 2.02%



Run 3: Report of Copa — Data Link

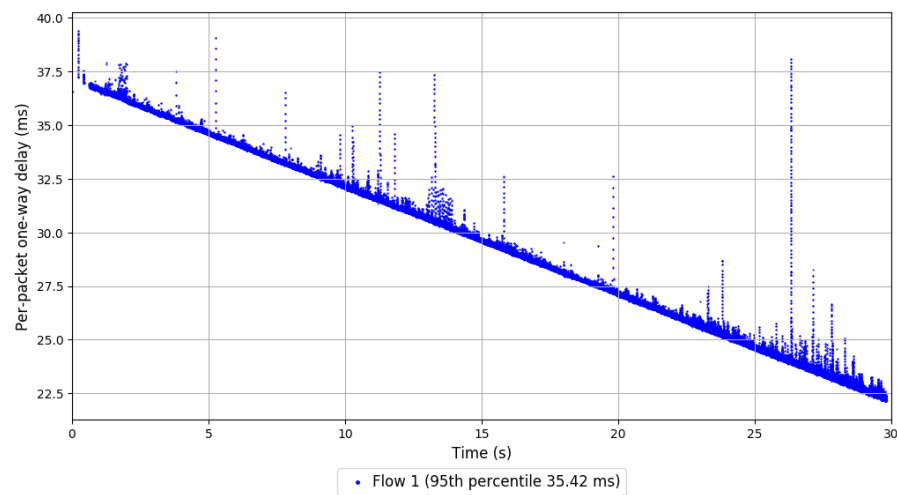
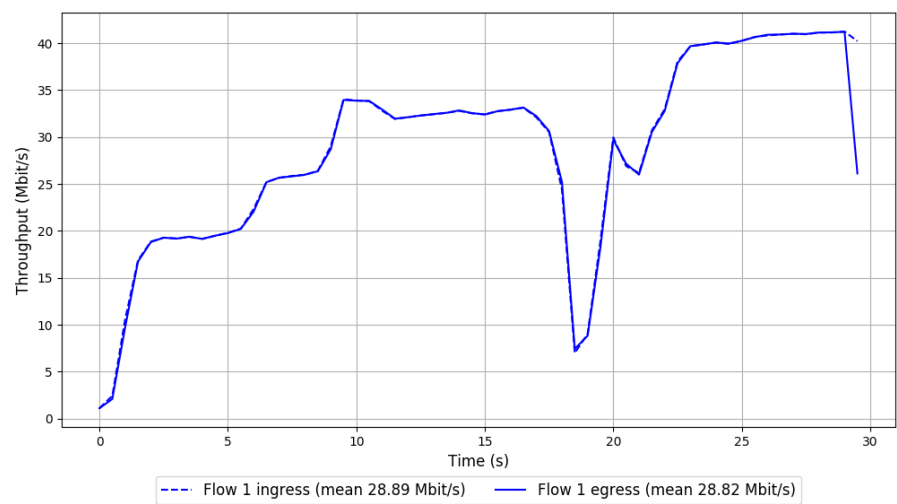


Run 4: Statistics of Copa

Start at: 2018-04-24 06:12:18  
End at: 2018-04-24 06:12:48  
Local clock offset: 2.344 ms  
Remote clock offset: 30.872 ms

# Below is generated by plot.py at 2018-04-24 12:31:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 28.82 Mbit/s  
95th percentile per-packet one-way delay: 35.417 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 28.82 Mbit/s  
95th percentile per-packet one-way delay: 35.417 ms  
Loss rate: 0.92%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-24 06:33:33

End at: 2018-04-24 06:34:03

Local clock offset: 3.303 ms

Remote clock offset: 5.239 ms

# Below is generated by plot.py at 2018-04-24 12:31:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 42.626 ms

Loss rate: 2.60%

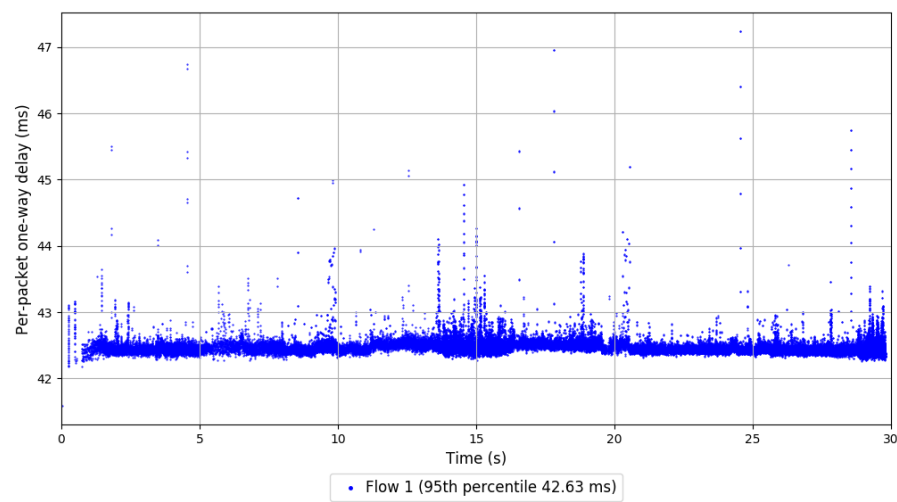
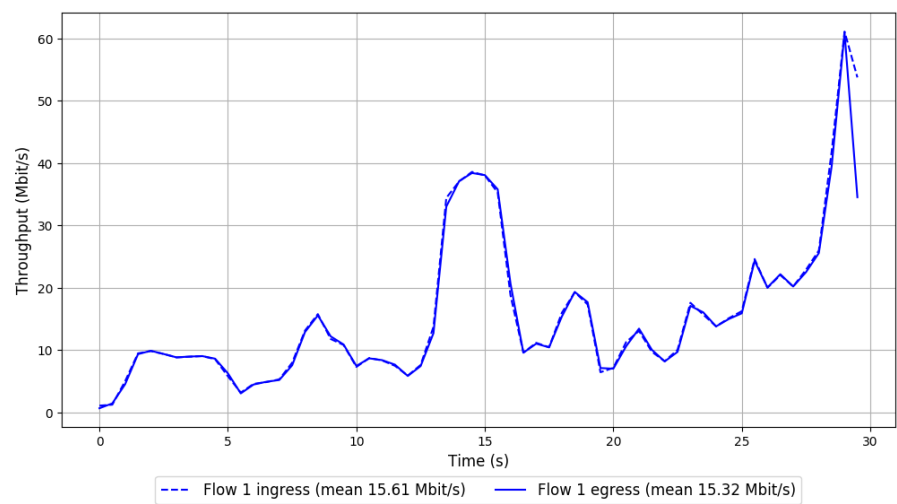
-- Flow 1:

Average throughput: 15.32 Mbit/s

95th percentile per-packet one-way delay: 42.626 ms

Loss rate: 2.60%

Run 5: Report of Copa — Data Link

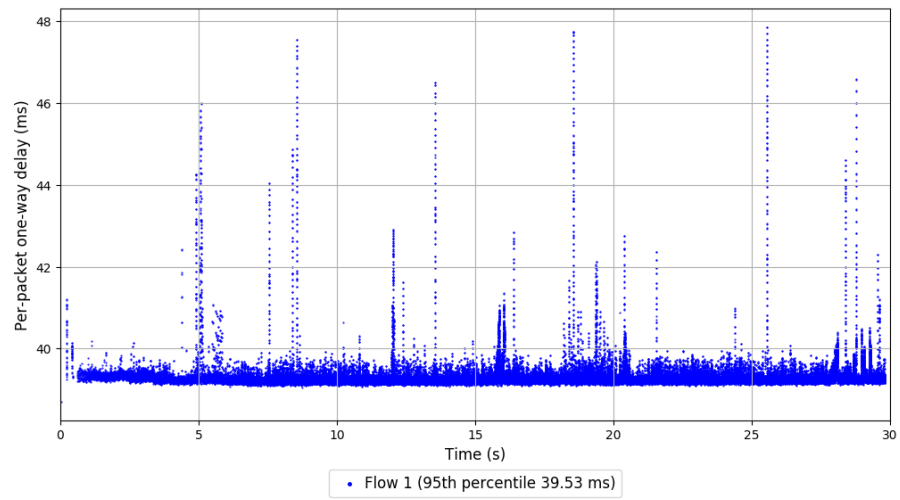
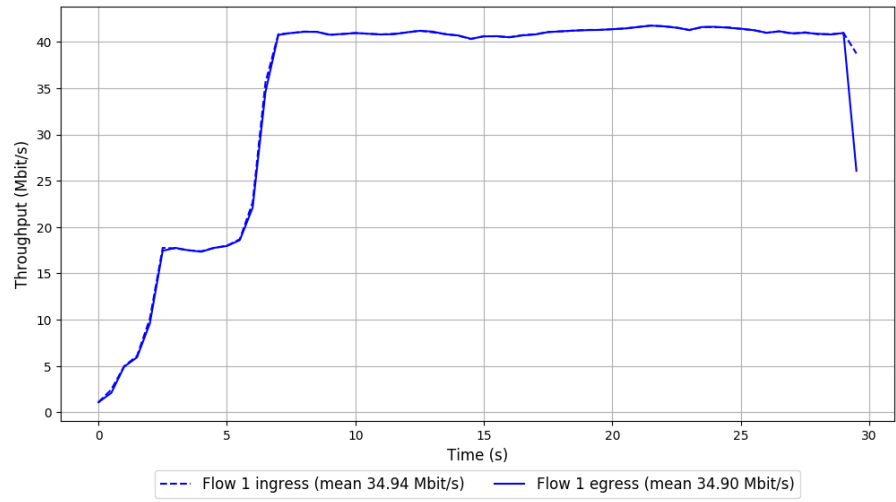


Run 6: Statistics of Copa

Start at: 2018-04-24 06:54:49  
End at: 2018-04-24 06:55:19  
Local clock offset: 3.232 ms  
Remote clock offset: 43.126 ms

# Below is generated by plot.py at 2018-04-24 12:31:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.90 Mbit/s  
95th percentile per-packet one-way delay: 39.526 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 34.90 Mbit/s  
95th percentile per-packet one-way delay: 39.526 ms  
Loss rate: 0.76%

## Run 6: Report of Copa — Data Link



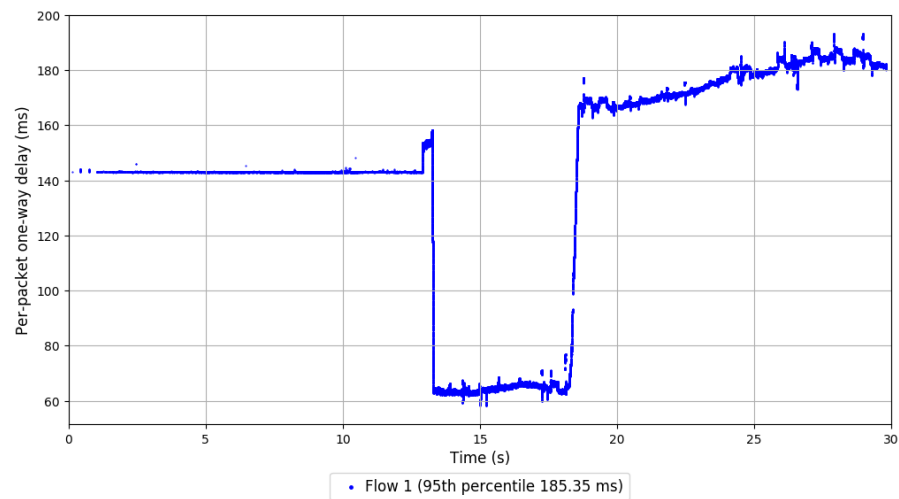
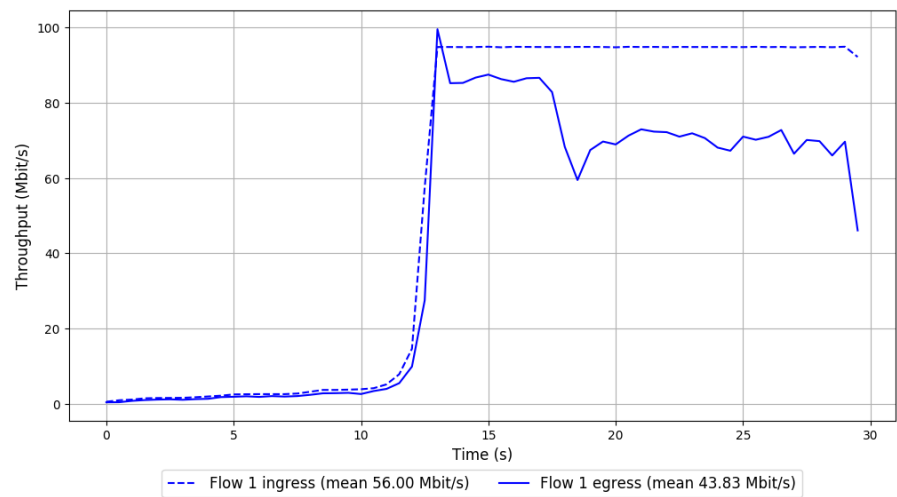
Run 7: Statistics of Copa

Start at: 2018-04-24 07:16:27  
End at: 2018-04-24 07:16:57  
Local clock offset: 3.227 ms  
Remote clock offset: 41.433 ms

# Below is generated by plot.py at 2018-04-24 12:31:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 43.83 Mbit/s  
95th percentile per-packet one-way delay: 185.346 ms  
Loss rate: 22.54%  
-- Flow 1:  
Average throughput: 43.83 Mbit/s  
95th percentile per-packet one-way delay: 185.346 ms  
Loss rate: 22.54%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-24 07:43:28

End at: 2018-04-24 07:43:59

Local clock offset: -4.799 ms

Remote clock offset: 9.837 ms

# Below is generated by plot.py at 2018-04-24 12:31:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 40.484 ms

Loss rate: 0.85%

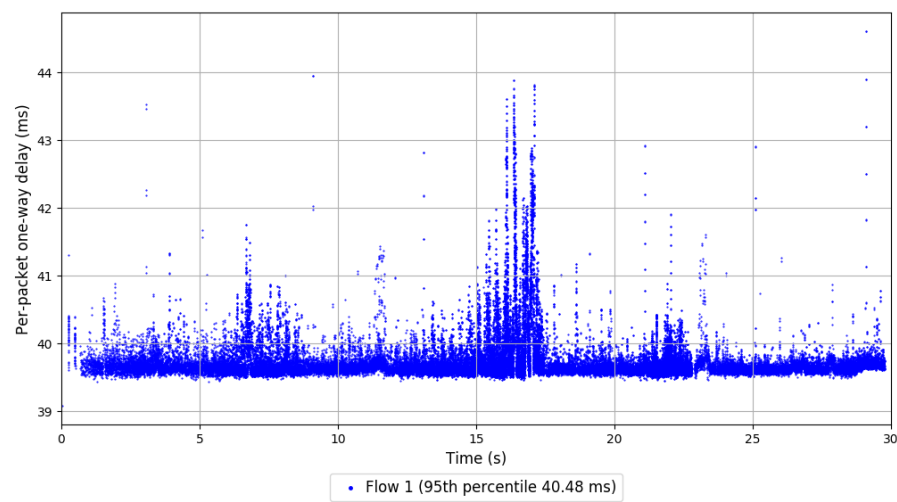
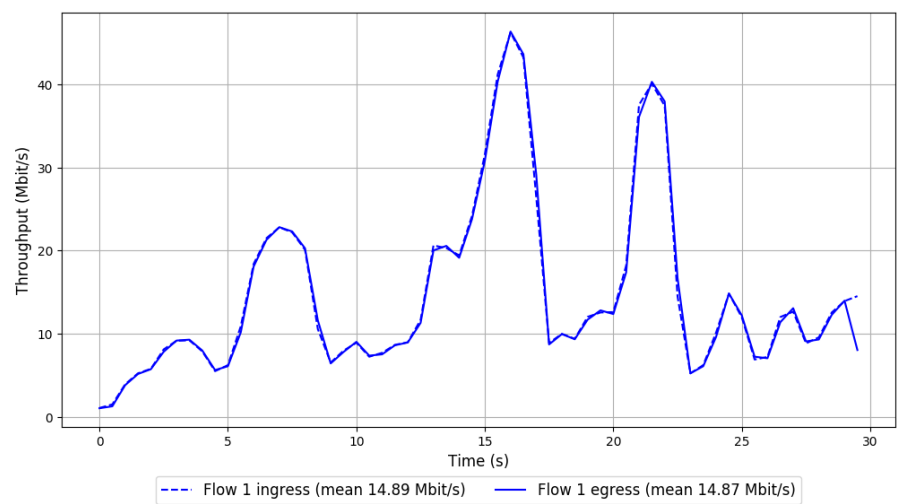
-- Flow 1:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 40.484 ms

Loss rate: 0.85%

Run 8: Report of Copa — Data Link

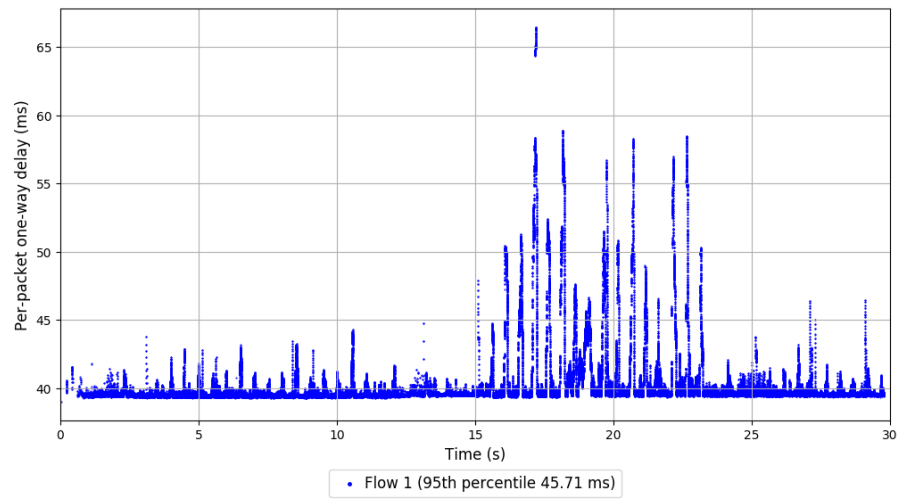
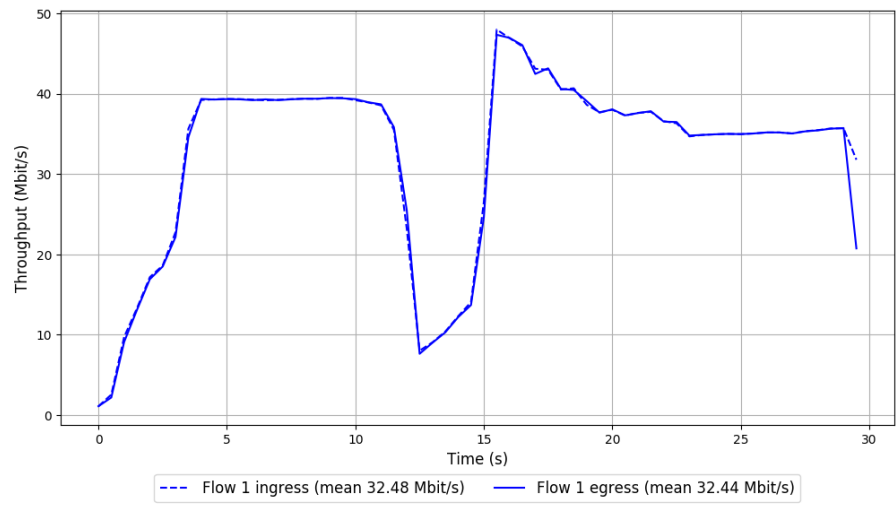


Run 9: Statistics of Copa

Start at: 2018-04-24 08:04:44  
End at: 2018-04-24 08:05:15  
Local clock offset: -2.598 ms  
Remote clock offset: 31.928 ms

# Below is generated by plot.py at 2018-04-24 12:31:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 32.44 Mbit/s  
95th percentile per-packet one-way delay: 45.708 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 32.44 Mbit/s  
95th percentile per-packet one-way delay: 45.708 ms  
Loss rate: 0.75%

### Run 9: Report of Copa — Data Link

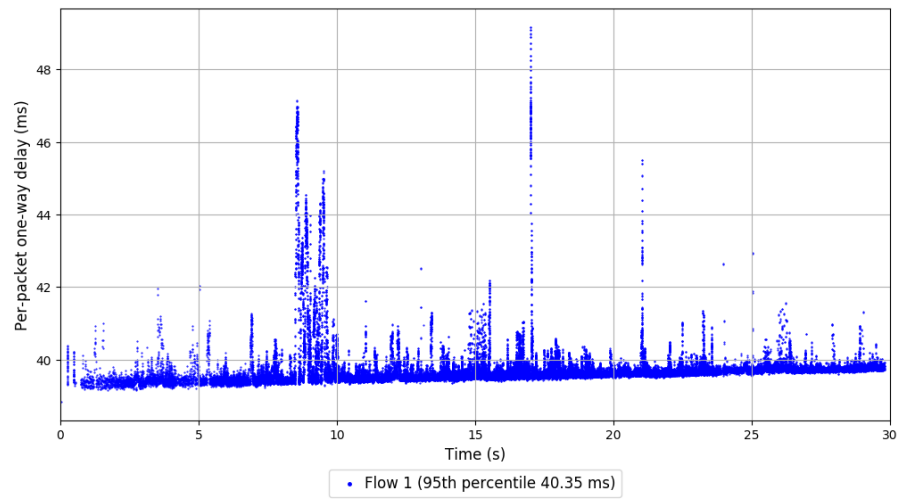
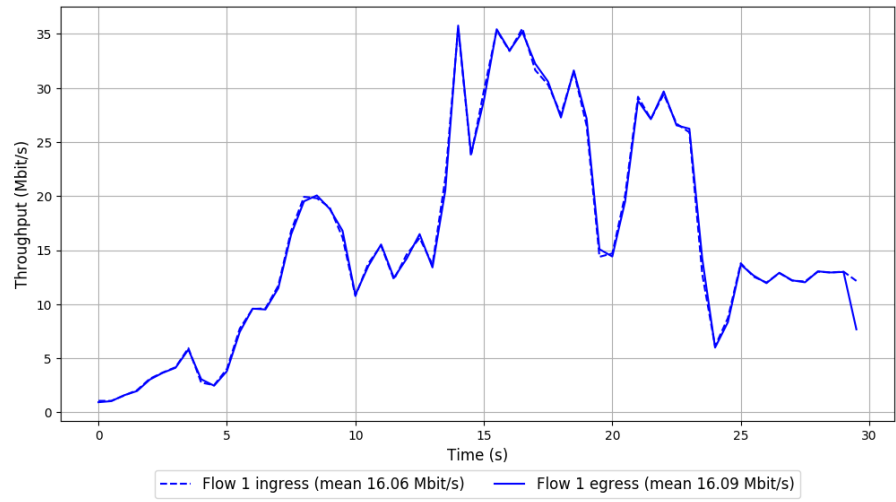


Run 10: Statistics of Copa

Start at: 2018-04-24 08:26:17  
End at: 2018-04-24 08:26:47  
Local clock offset: -1.416 ms  
Remote clock offset: 36.644 ms

# Below is generated by plot.py at 2018-04-24 12:31:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 16.09 Mbit/s  
95th percentile per-packet one-way delay: 40.347 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 16.09 Mbit/s  
95th percentile per-packet one-way delay: 40.347 ms  
Loss rate: 0.57%

# Run 10: Report of Copa — Data Link



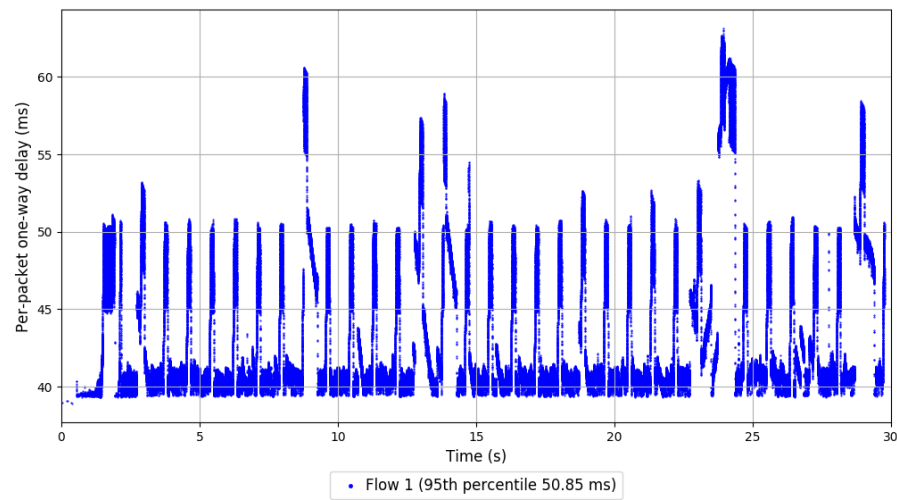
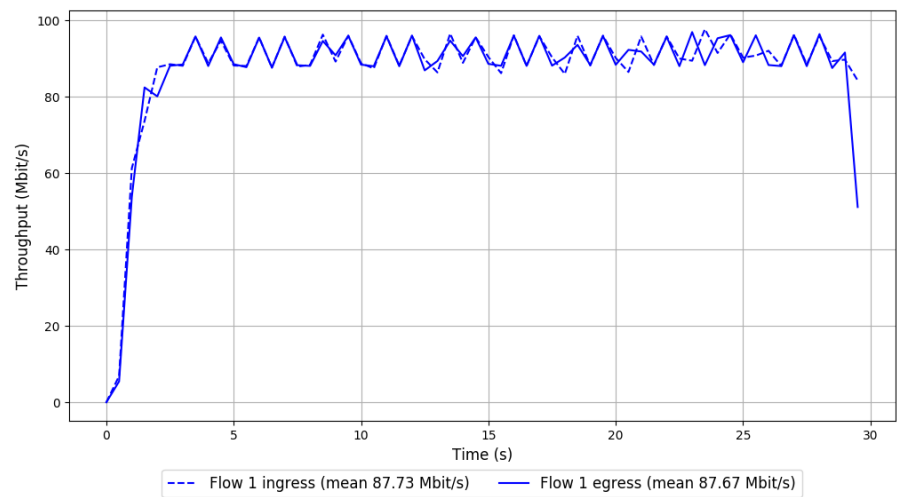
Run 1: Statistics of FillP

Start at: 2018-04-24 05:10:55  
End at: 2018-04-24 05:11:25  
Local clock offset: -0.881 ms  
Remote clock offset: -1.324 ms

# Below is generated by plot.py at 2018-04-24 12:32:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.67 Mbit/s  
95th percentile per-packet one-way delay: 50.846 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 87.67 Mbit/s  
95th percentile per-packet one-way delay: 50.846 ms  
Loss rate: 0.78%



Run 1: Report of FillP — Data Link

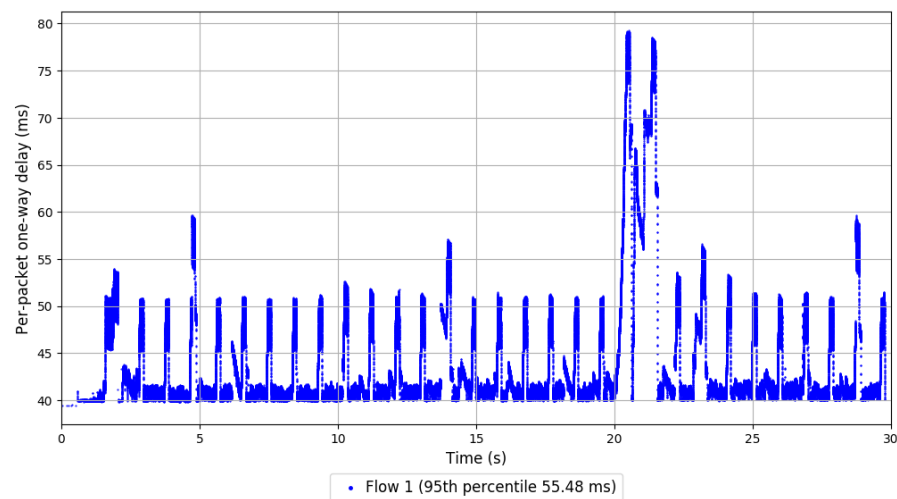
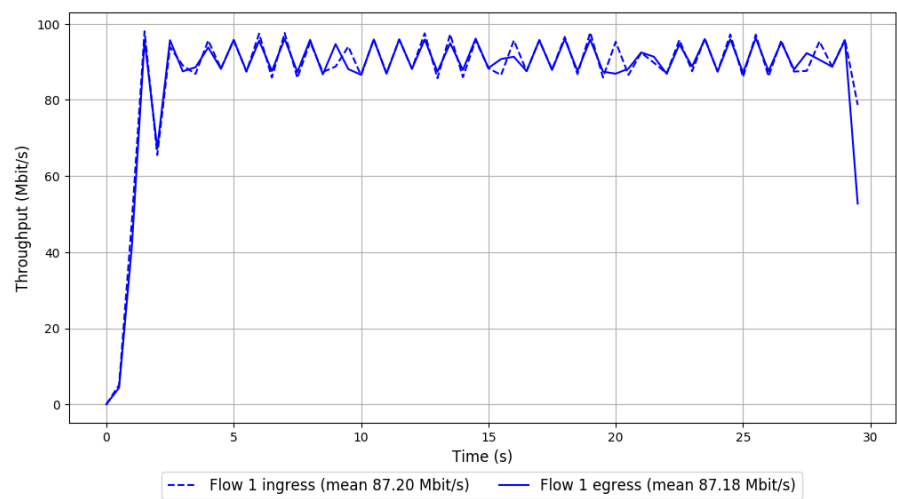


Run 2: Statistics of FillP

Start at: 2018-04-24 05:32:11  
End at: 2018-04-24 05:32:41  
Local clock offset: -1.554 ms  
Remote clock offset: -0.867 ms

# Below is generated by plot.py at 2018-04-24 12:32:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.18 Mbit/s  
95th percentile per-packet one-way delay: 55.482 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 87.18 Mbit/s  
95th percentile per-packet one-way delay: 55.482 ms  
Loss rate: 0.75%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-24 05:53:30

End at: 2018-04-24 05:54:00

Local clock offset: 1.477 ms

Remote clock offset: 2.476 ms

# Below is generated by plot.py at 2018-04-24 12:32:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 49.266 ms

Loss rate: 0.88%

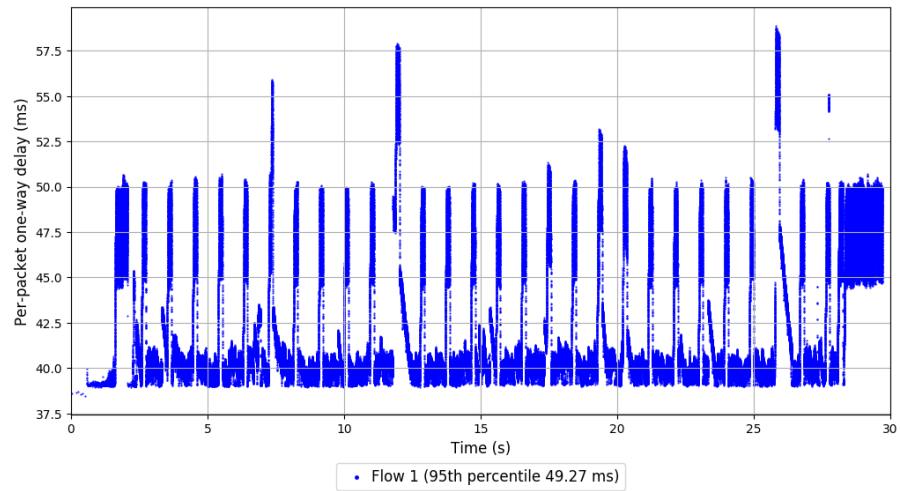
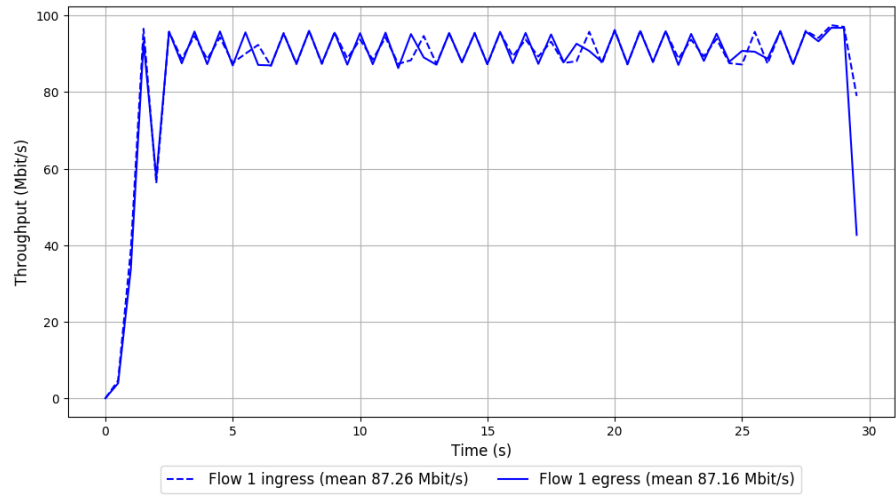
-- Flow 1:

Average throughput: 87.16 Mbit/s

95th percentile per-packet one-way delay: 49.266 ms

Loss rate: 0.88%

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

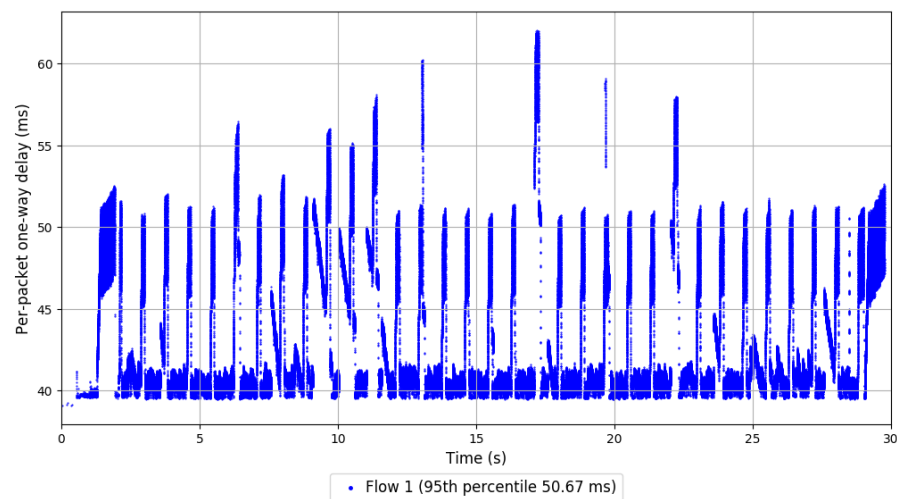
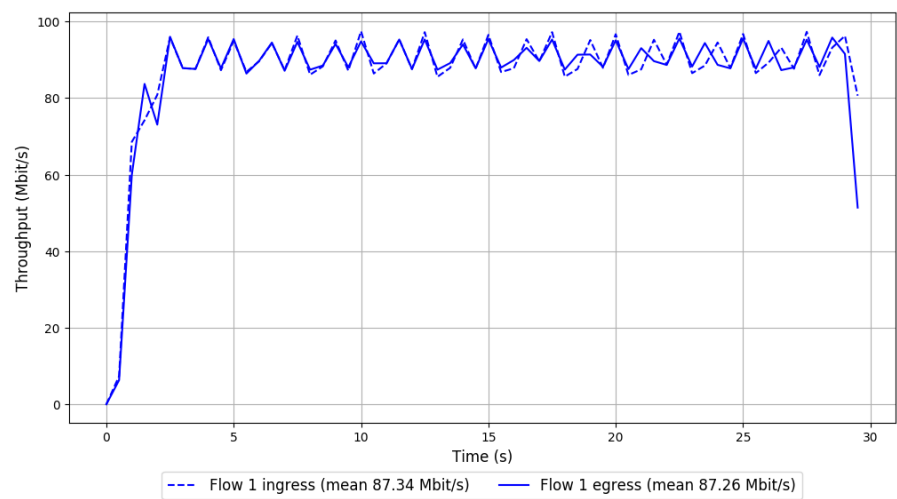


Run 4: Statistics of FillP

Start at: 2018-04-24 06:14:50  
End at: 2018-04-24 06:15:20  
Local clock offset: 2.485 ms  
Remote clock offset: -12.356 ms

# Below is generated by plot.py at 2018-04-24 12:32:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.26 Mbit/s  
95th percentile per-packet one-way delay: 50.667 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 87.26 Mbit/s  
95th percentile per-packet one-way delay: 50.667 ms  
Loss rate: 0.74%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-24 06:36:04

End at: 2018-04-24 06:36:34

Local clock offset: 3.591 ms

Remote clock offset: 8.156 ms

# Below is generated by plot.py at 2018-04-24 12:32:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 77.280 ms

Loss rate: 3.94%

-- Flow 1:

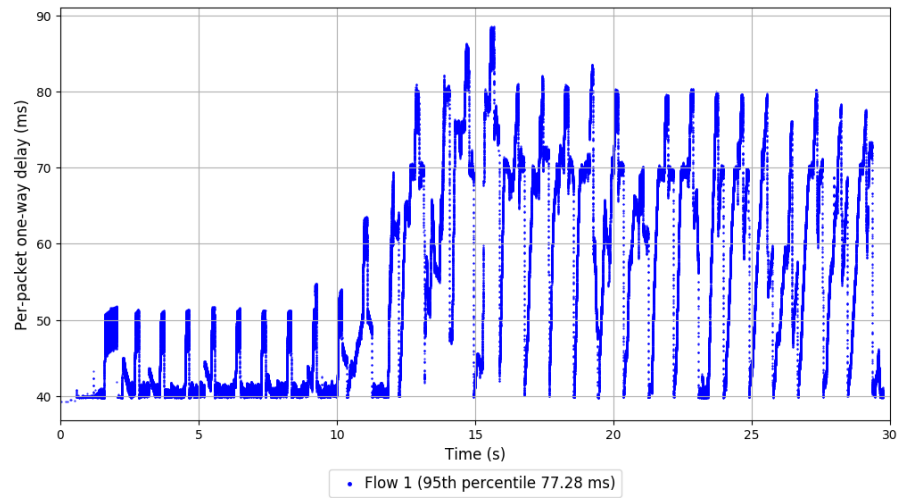
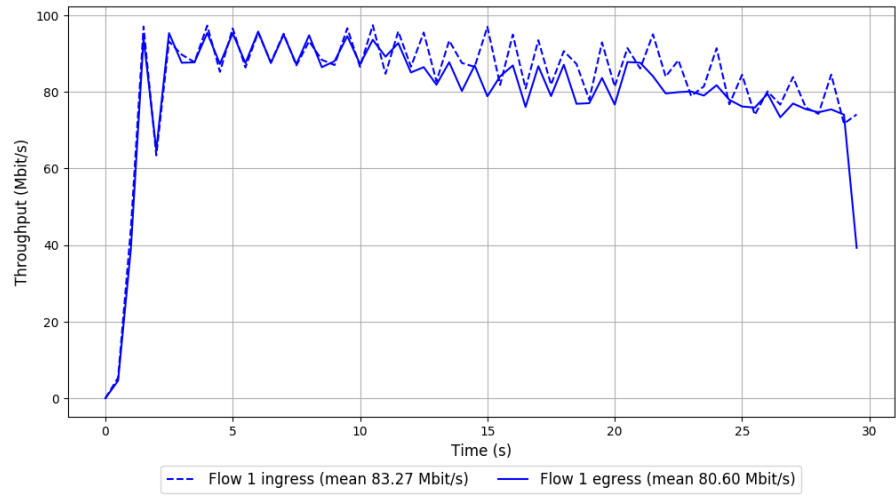
Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 77.280 ms

Loss rate: 3.94%



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

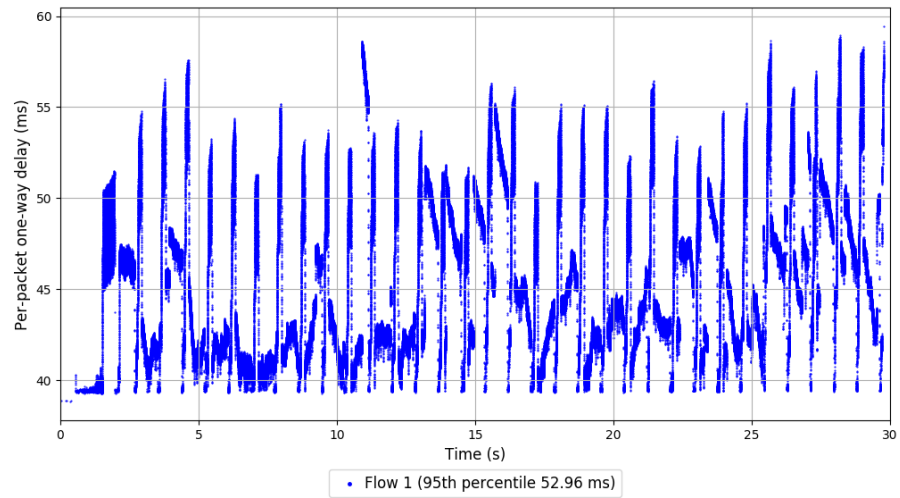
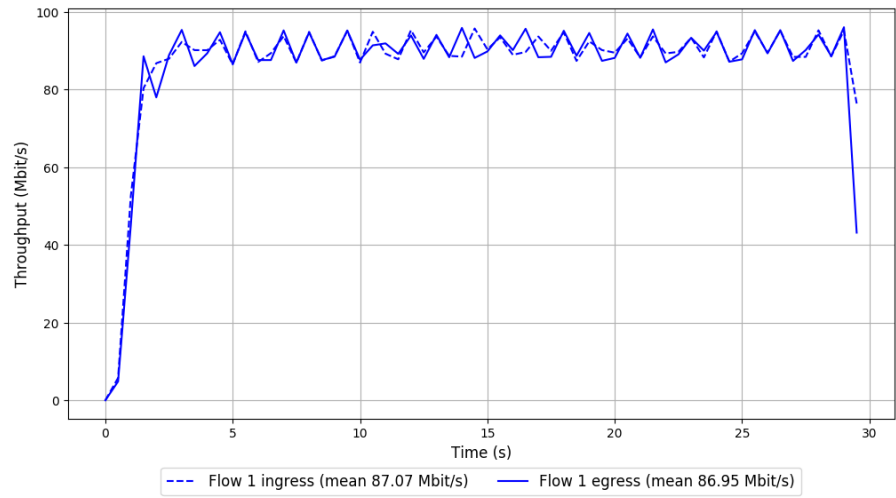


Run 6: Statistics of FillP

Start at: 2018-04-24 06:57:22  
End at: 2018-04-24 06:57:52  
Local clock offset: 3.175 ms  
Remote clock offset: 43.245 ms

# Below is generated by plot.py at 2018-04-24 12:33:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.95 Mbit/s  
95th percentile per-packet one-way delay: 52.961 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 86.95 Mbit/s  
95th percentile per-packet one-way delay: 52.961 ms  
Loss rate: 0.81%

## Run 6: Report of FillP — Data Link

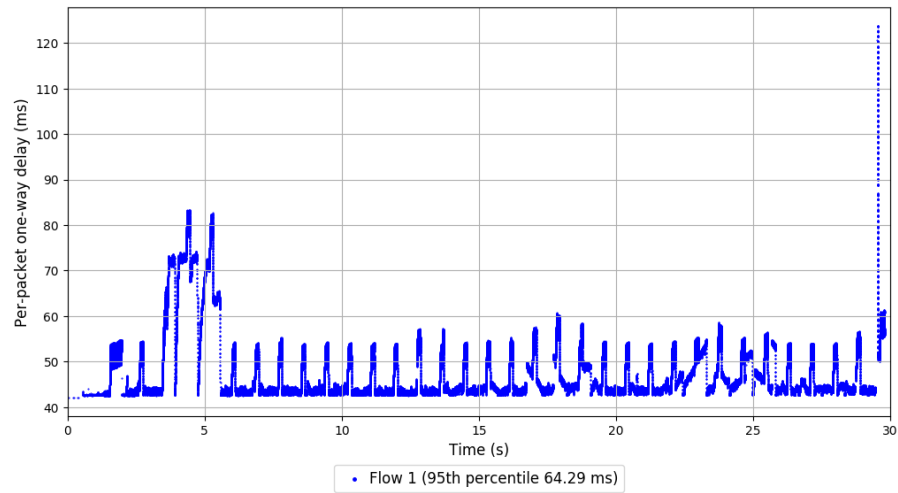
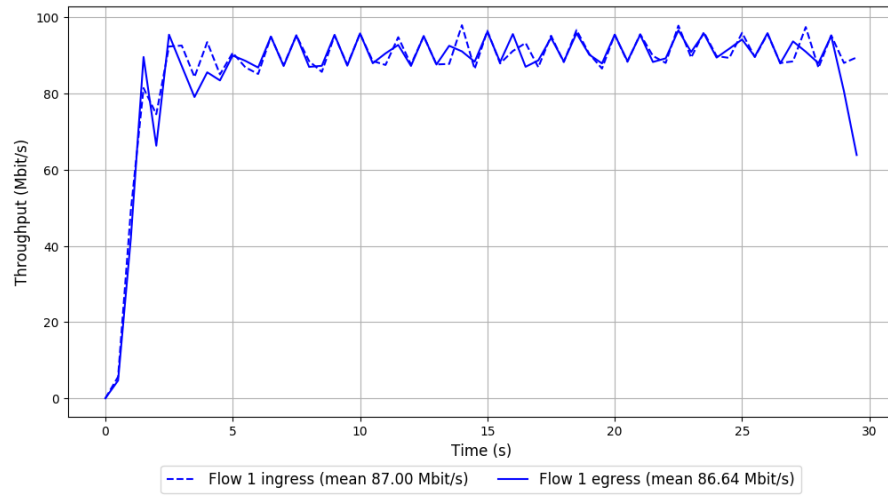


Run 7: Statistics of FillP

Start at: 2018-04-24 07:23:41  
End at: 2018-04-24 07:24:11  
Local clock offset: 0.836 ms  
Remote clock offset: 34.213 ms

# Below is generated by plot.py at 2018-04-24 12:33:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.64 Mbit/s  
95th percentile per-packet one-way delay: 64.291 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 86.64 Mbit/s  
95th percentile per-packet one-way delay: 64.291 ms  
Loss rate: 1.08%

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



Run 8: Statistics of FillP

Start at: 2018-04-24 07:45:59

End at: 2018-04-24 07:46:29

Local clock offset: -5.33 ms

Remote clock offset: 9.71 ms

# Below is generated by plot.py at 2018-04-24 12:33:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 76.246 ms

Loss rate: 1.23%

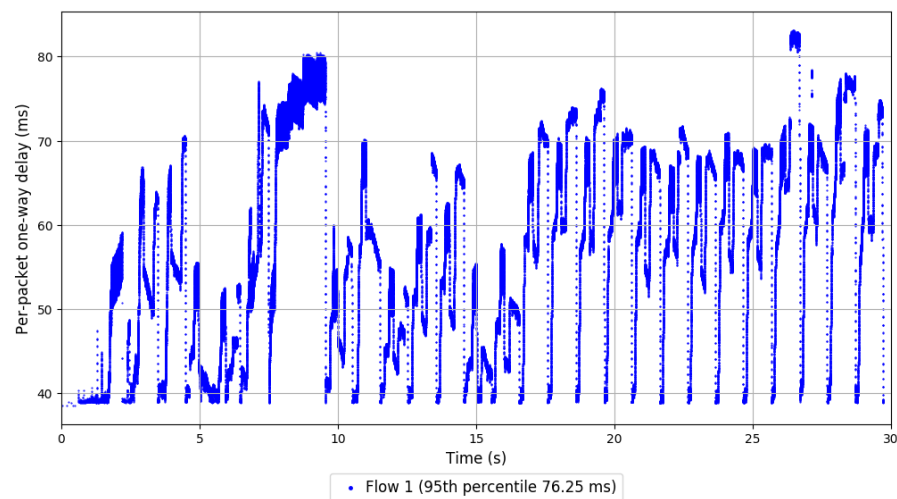
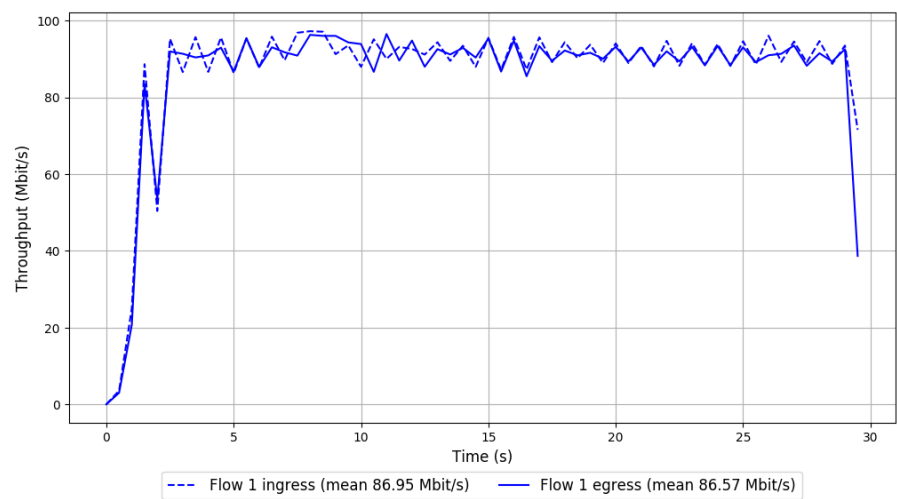
-- Flow 1:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 76.246 ms

Loss rate: 1.23%

Run 8: Report of FillP — Data Link



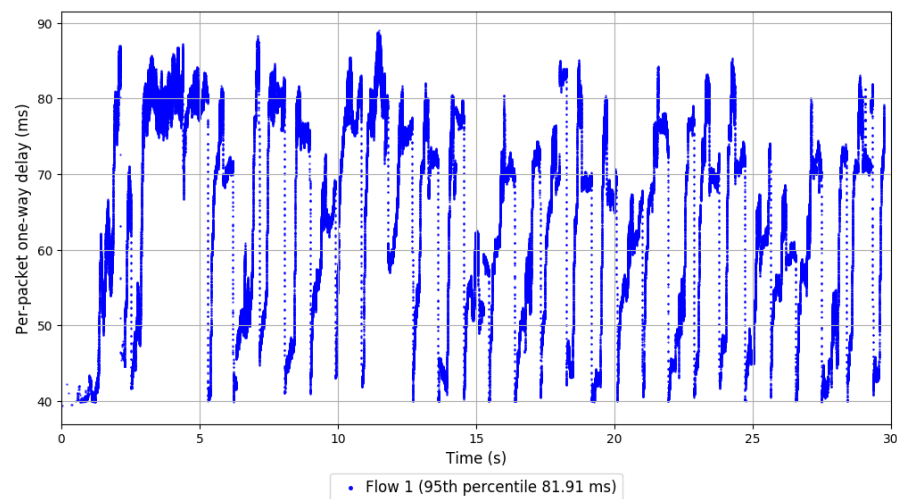
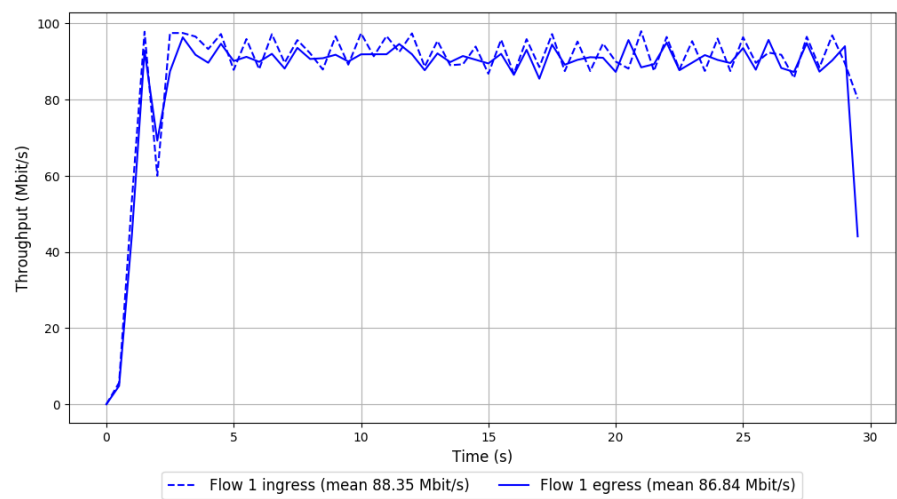
Run 9: Statistics of FillP

Start at: 2018-04-24 08:07:16  
End at: 2018-04-24 08:07:46  
Local clock offset: -1.882 ms  
Remote clock offset: 32.898 ms

# Below is generated by plot.py at 2018-04-24 12:33:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.84 Mbit/s  
95th percentile per-packet one-way delay: 81.913 ms  
Loss rate: 2.35%  
-- Flow 1:  
Average throughput: 86.84 Mbit/s  
95th percentile per-packet one-way delay: 81.913 ms  
Loss rate: 2.35%



Run 9: Report of FillP — Data Link

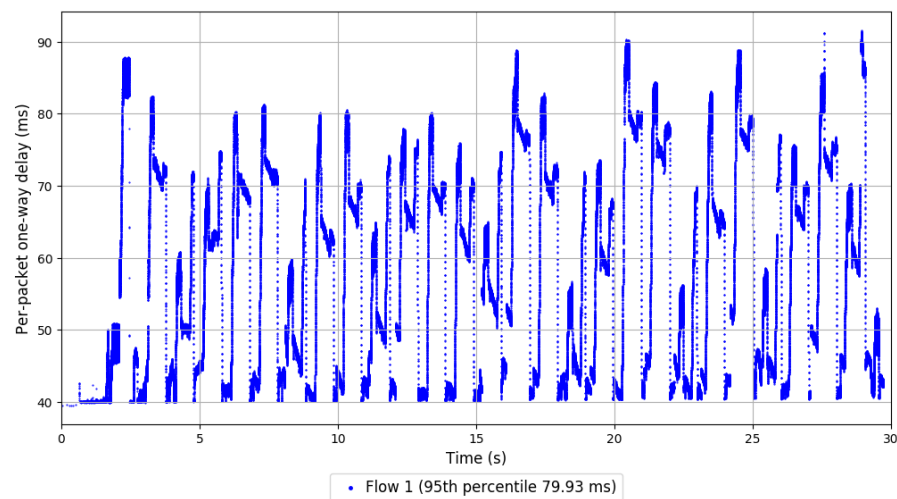
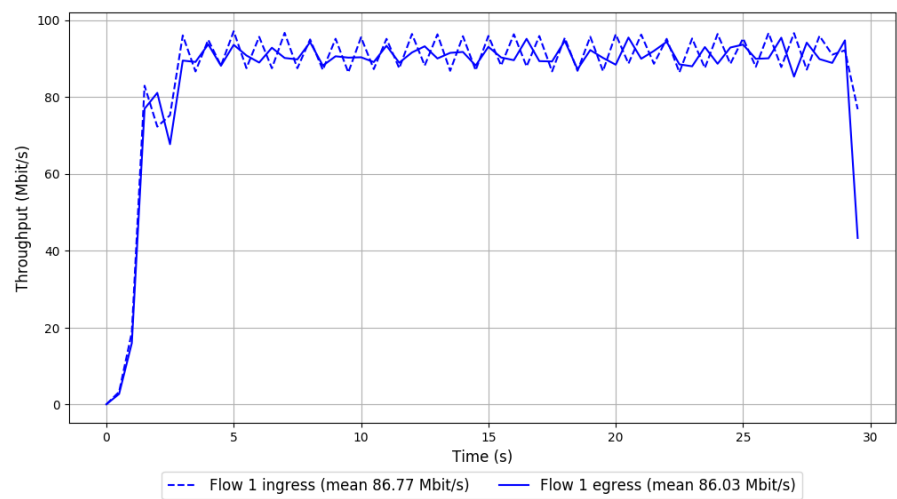


Run 10: Statistics of FillP

Start at: 2018-04-24 08:28:46  
End at: 2018-04-24 08:29:16  
Local clock offset: -1.48 ms  
Remote clock offset: 38.978 ms

# Below is generated by plot.py at 2018-04-24 12:33:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.03 Mbit/s  
95th percentile per-packet one-way delay: 79.931 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 86.03 Mbit/s  
95th percentile per-packet one-way delay: 79.931 ms  
Loss rate: 1.58%

Run 10: Report of FillP — Data Link

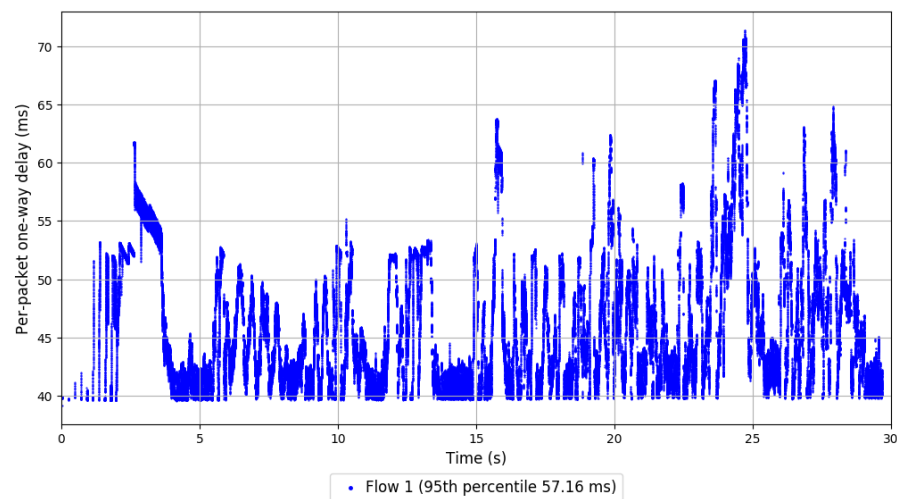
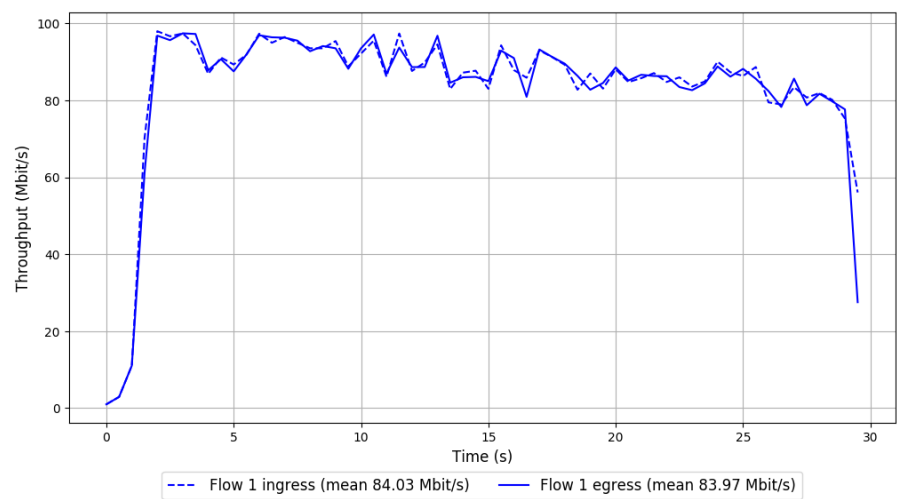


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 05:14:41  
End at: 2018-04-24 05:15:11  
Local clock offset: -2.728 ms  
Remote clock offset: -1.279 ms

# Below is generated by plot.py at 2018-04-24 12:33:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.97 Mbit/s  
95th percentile per-packet one-way delay: 57.164 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 83.97 Mbit/s  
95th percentile per-packet one-way delay: 57.164 ms  
Loss rate: 0.78%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 05:35:58

End at: 2018-04-24 05:36:28

Local clock offset: -1.592 ms

Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2018-04-24 12:33:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.38 Mbit/s

95th percentile per-packet one-way delay: 49.597 ms

Loss rate: 0.63%

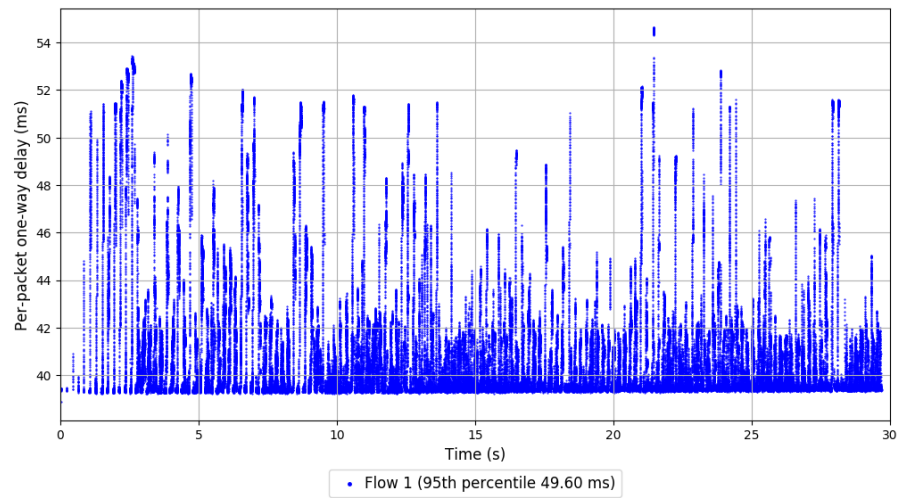
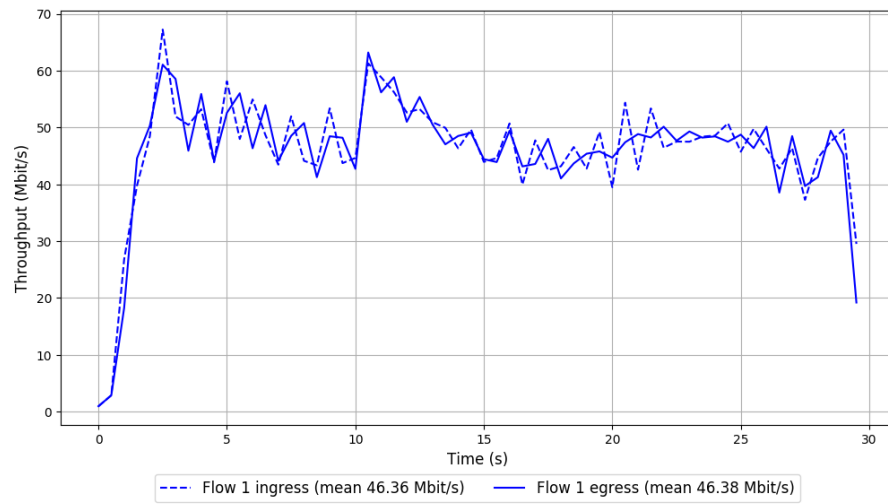
-- Flow 1:

Average throughput: 46.38 Mbit/s

95th percentile per-packet one-way delay: 49.597 ms

Loss rate: 0.63%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 05:57:18

End at: 2018-04-24 05:57:48

Local clock offset: 1.886 ms

Remote clock offset: 2.7 ms

# Below is generated by plot.py at 2018-04-24 12:33:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 54.660 ms

Loss rate: 0.73%

-- Flow 1:

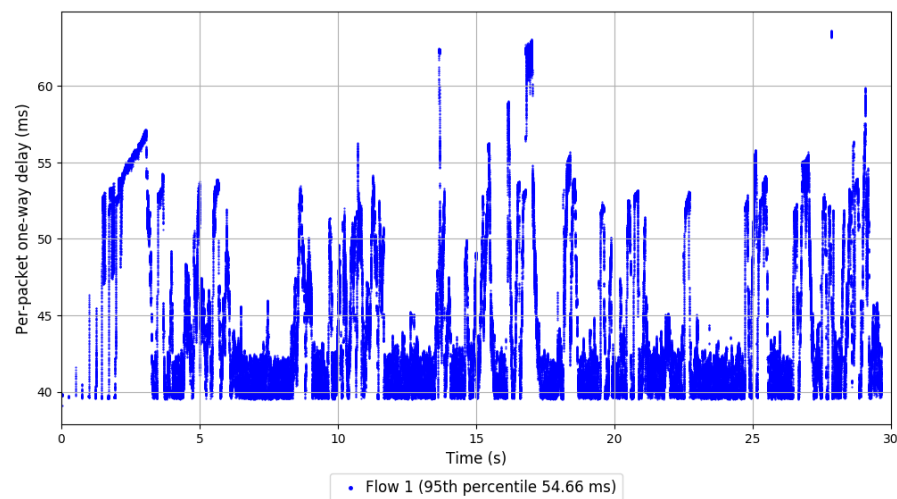
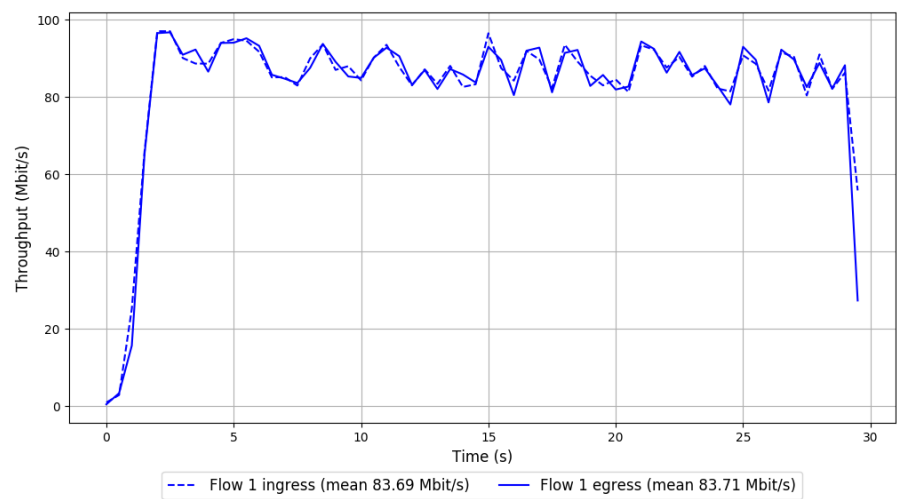
Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 54.660 ms

Loss rate: 0.73%



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

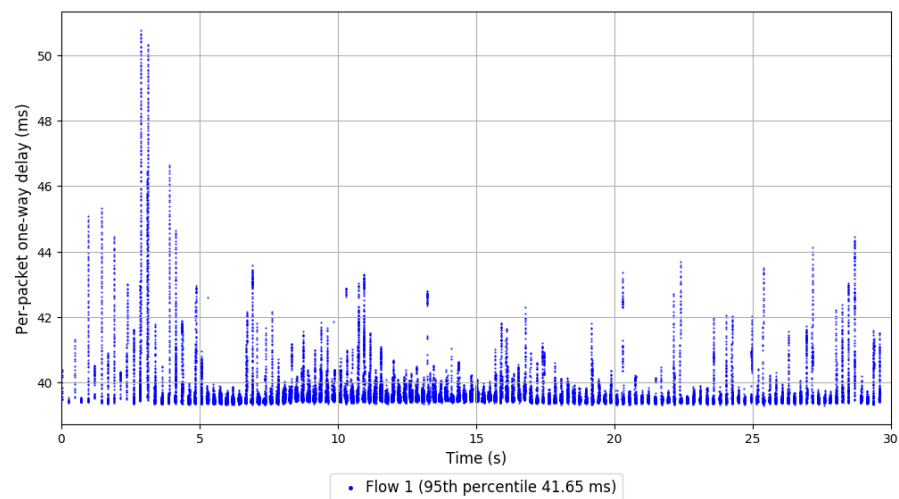
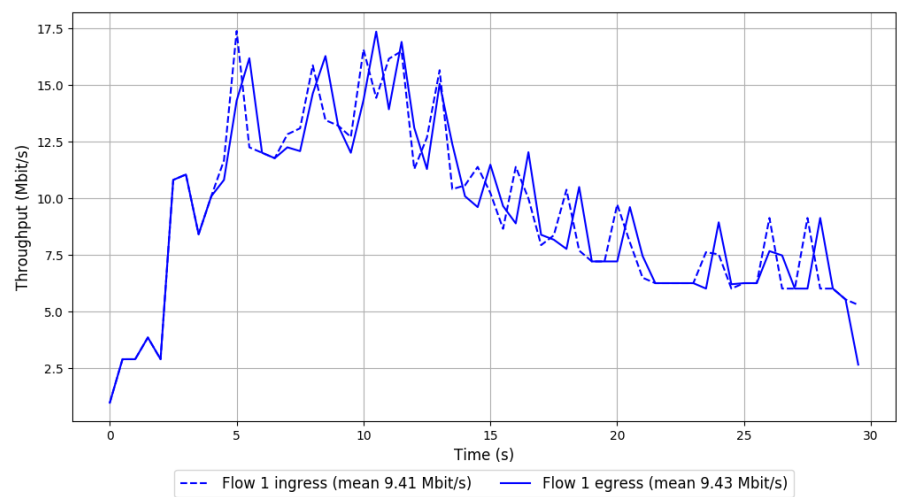


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 06:18:36  
End at: 2018-04-24 06:19:06  
Local clock offset: 2.772 ms  
Remote clock offset: -12.202 ms

# Below is generated by plot.py at 2018-04-24 12:33:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.43 Mbit/s  
95th percentile per-packet one-way delay: 41.645 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 9.43 Mbit/s  
95th percentile per-packet one-way delay: 41.645 ms  
Loss rate: 0.47%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 06:39:51

End at: 2018-04-24 06:40:21

Local clock offset: 3.672 ms

Remote clock offset: 8.449 ms

# Below is generated by plot.py at 2018-04-24 12:34:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 51.475 ms

Loss rate: 0.67%

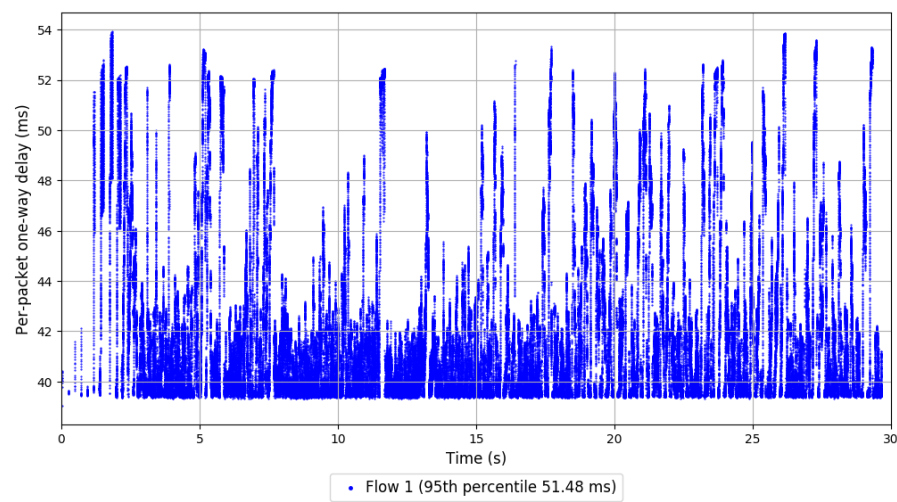
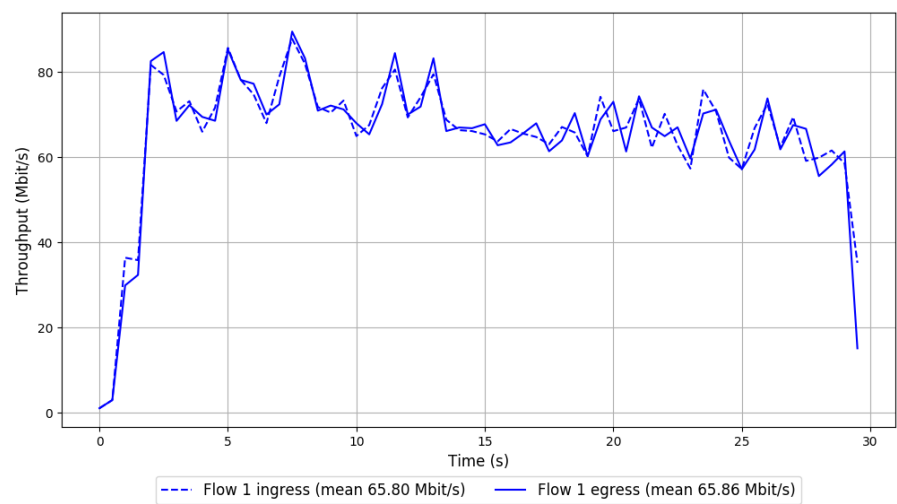
-- Flow 1:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 51.475 ms

Loss rate: 0.67%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 07:01:07

End at: 2018-04-24 07:01:37

Local clock offset: 3.348 ms

Remote clock offset: 43.274 ms

# Below is generated by plot.py at 2018-04-24 12:34:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 65.232 ms

Loss rate: 1.07%

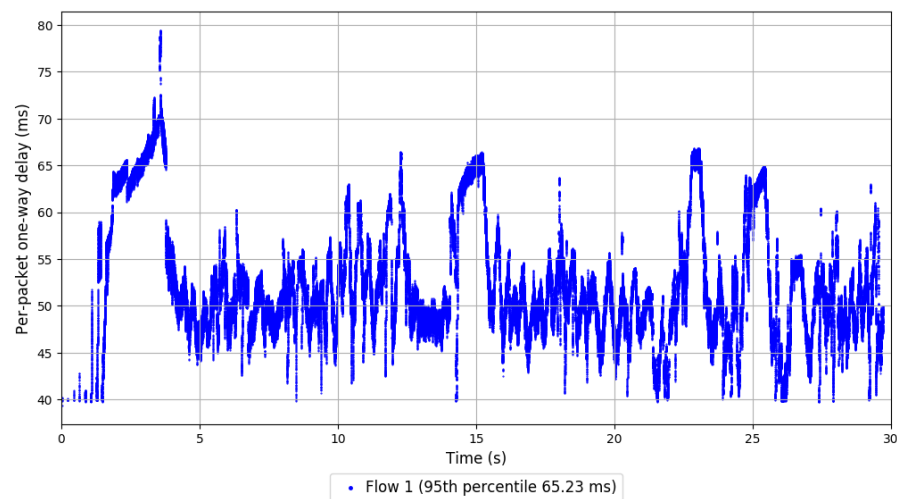
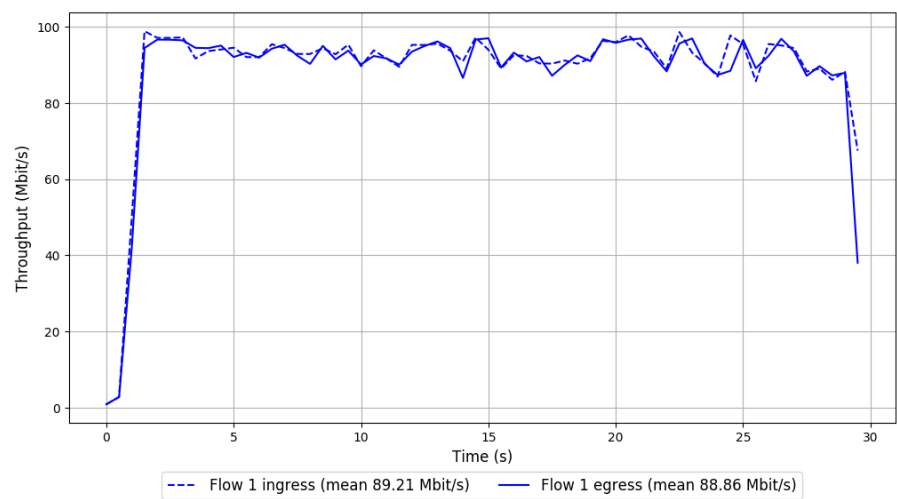
-- Flow 1:

Average throughput: 88.86 Mbit/s

95th percentile per-packet one-way delay: 65.232 ms

Loss rate: 1.07%

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



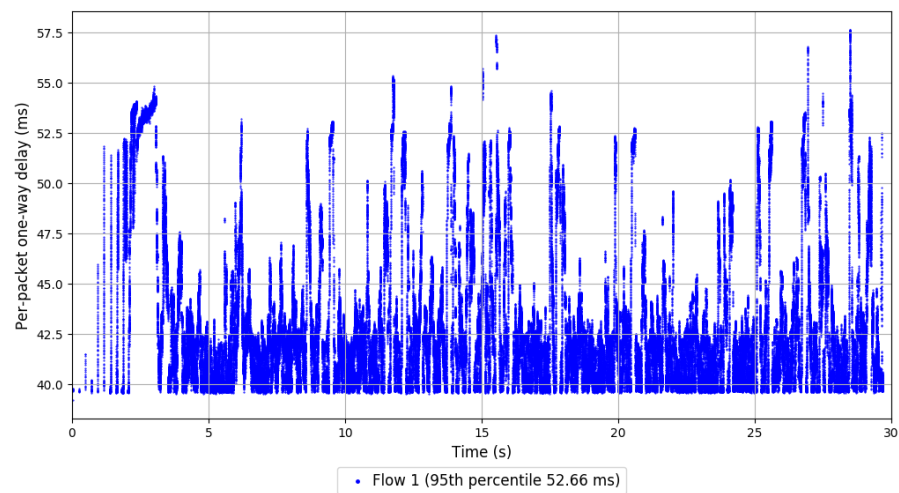
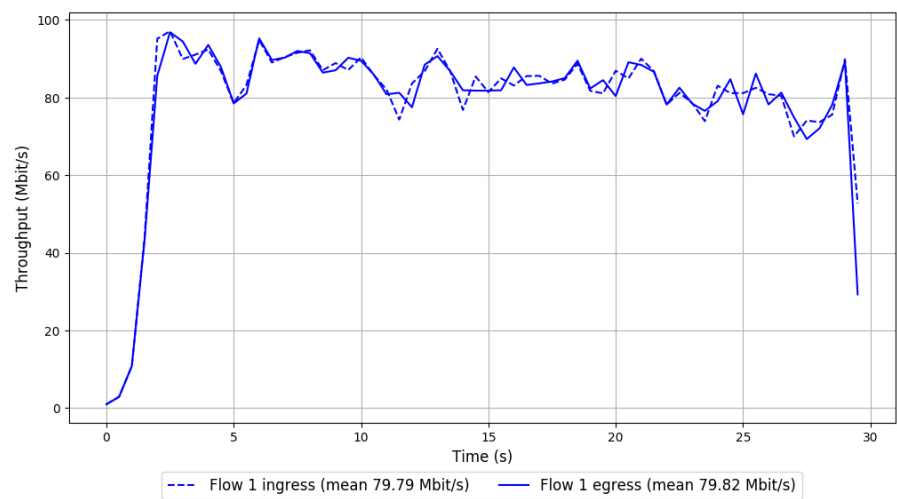
Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 07:27:26  
End at: 2018-04-24 07:27:56  
Local clock offset: -0.783 ms  
Remote clock offset: 12.978 ms

# Below is generated by plot.py at 2018-04-24 12:34:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.82 Mbit/s  
95th percentile per-packet one-way delay: 52.655 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 79.82 Mbit/s  
95th percentile per-packet one-way delay: 52.655 ms  
Loss rate: 0.65%



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

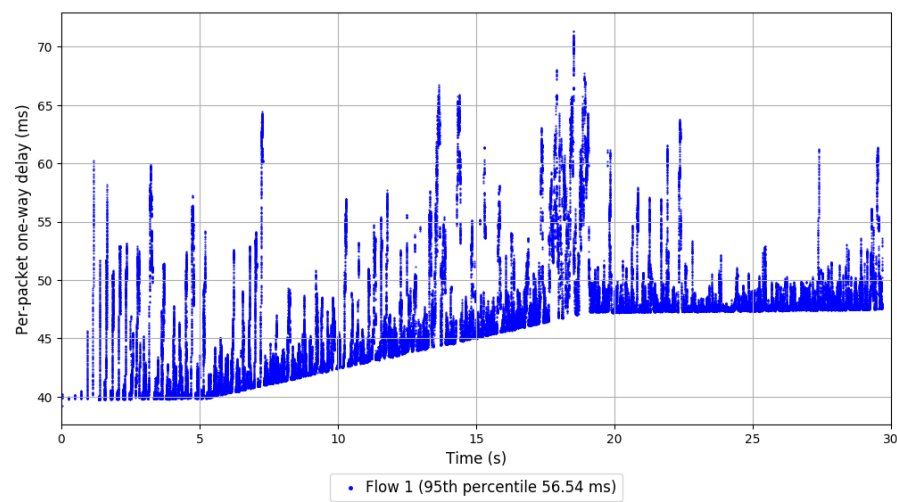
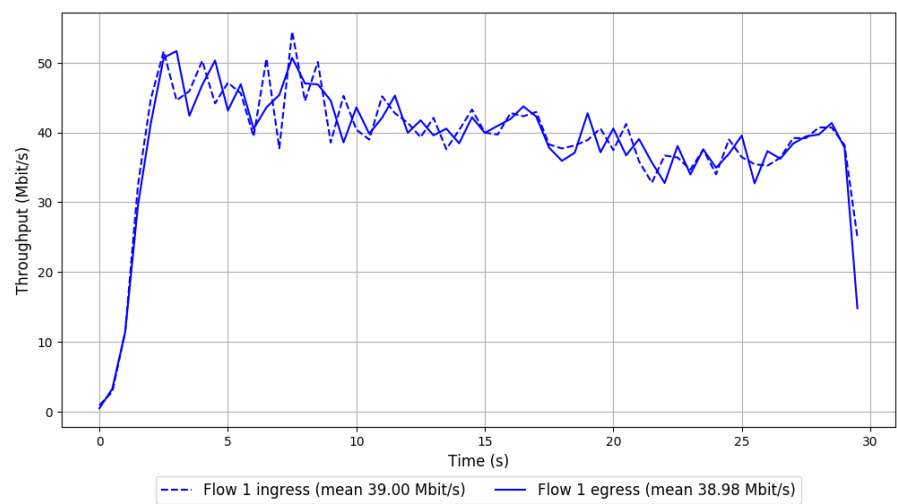


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 07:49:47  
End at: 2018-04-24 07:50:17  
Local clock offset: -5.763 ms  
Remote clock offset: 12.917 ms

# Below is generated by plot.py at 2018-04-24 12:34:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 38.98 Mbit/s  
95th percentile per-packet one-way delay: 56.540 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 38.98 Mbit/s  
95th percentile per-packet one-way delay: 56.540 ms  
Loss rate: 0.67%

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

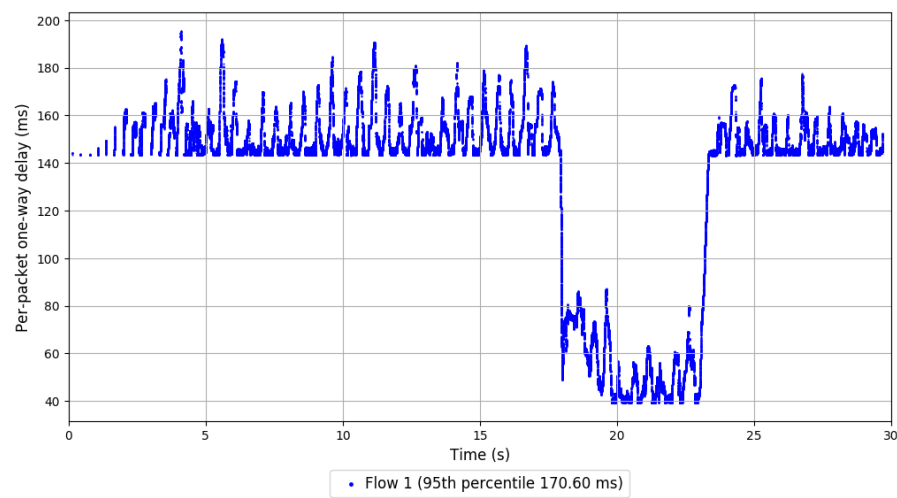
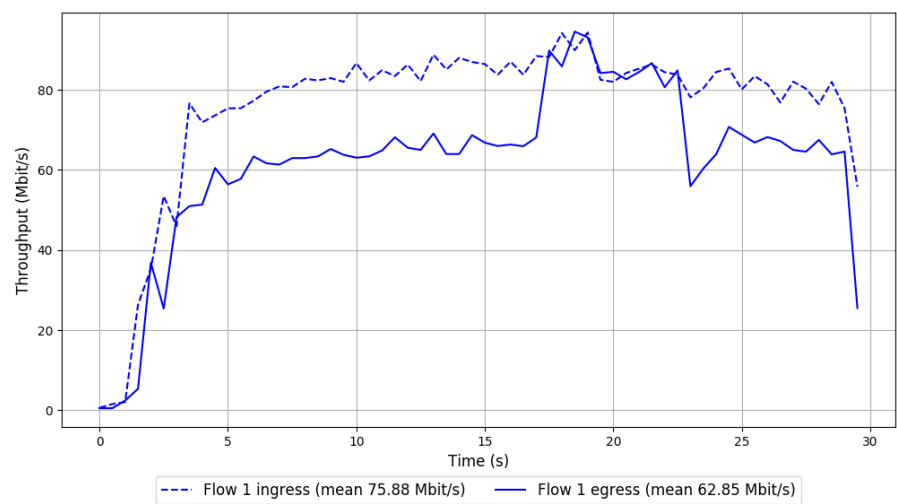


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 08:11:02  
End at: 2018-04-24 08:11:32  
Local clock offset: -1.735 ms  
Remote clock offset: 34.051 ms

# Below is generated by plot.py at 2018-04-24 12:34:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.85 Mbit/s  
95th percentile per-packet one-way delay: 170.597 ms  
Loss rate: 18.00%  
-- Flow 1:  
Average throughput: 62.85 Mbit/s  
95th percentile per-packet one-way delay: 170.597 ms  
Loss rate: 18.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 08:32:46

End at: 2018-04-24 08:33:16

Local clock offset: -2.227 ms

Remote clock offset: 42.042 ms

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

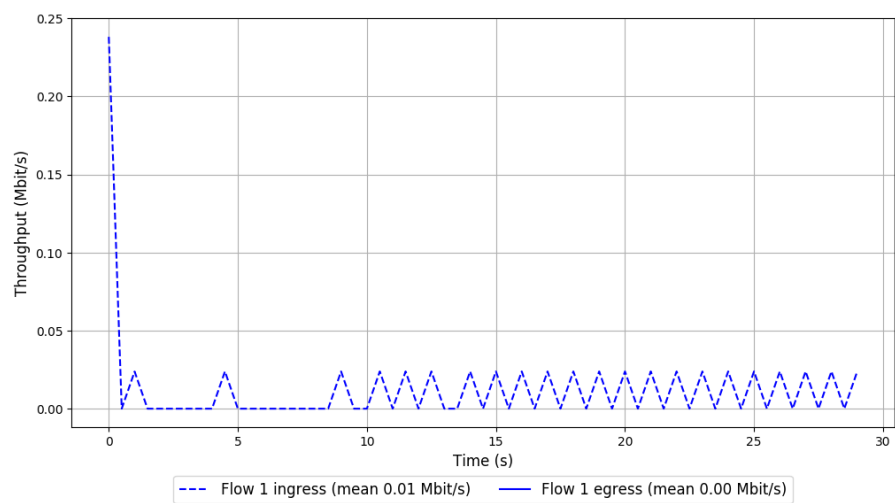


Figure is missing

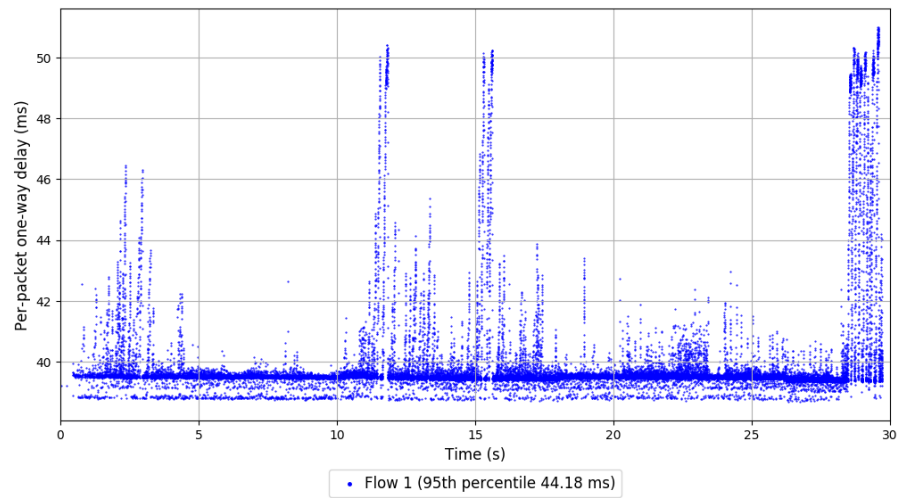
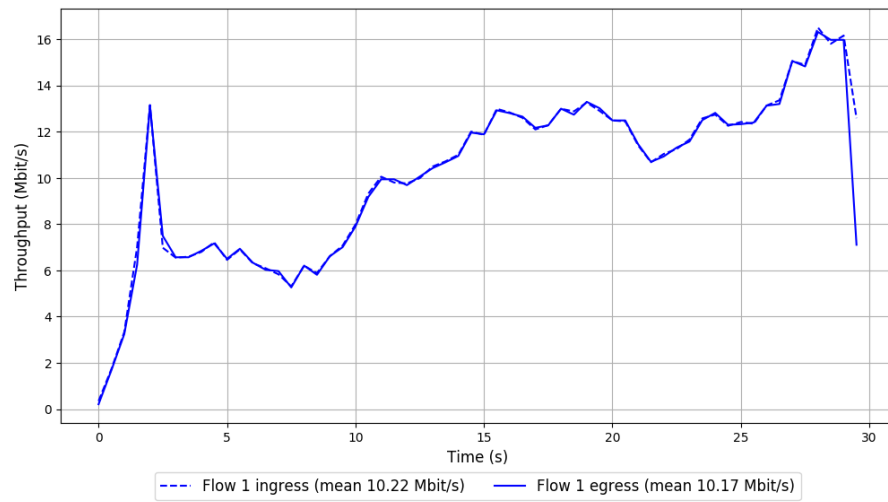
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 05:23:25  
End at: 2018-04-24 05:23:55  
Local clock offset: -2.776 ms  
Remote clock offset: -1.182 ms

# Below is generated by plot.py at 2018-04-24 12:34:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.17 Mbit/s  
95th percentile per-packet one-way delay: 44.178 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 10.17 Mbit/s  
95th percentile per-packet one-way delay: 44.178 ms  
Loss rate: 1.13%



# Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 05:44:41

End at: 2018-04-24 05:45:11

Local clock offset: 0.292 ms

Remote clock offset: 1.679 ms

# Below is generated by plot.py at 2018-04-24 12:34:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 39.066 ms

Loss rate: 1.44%

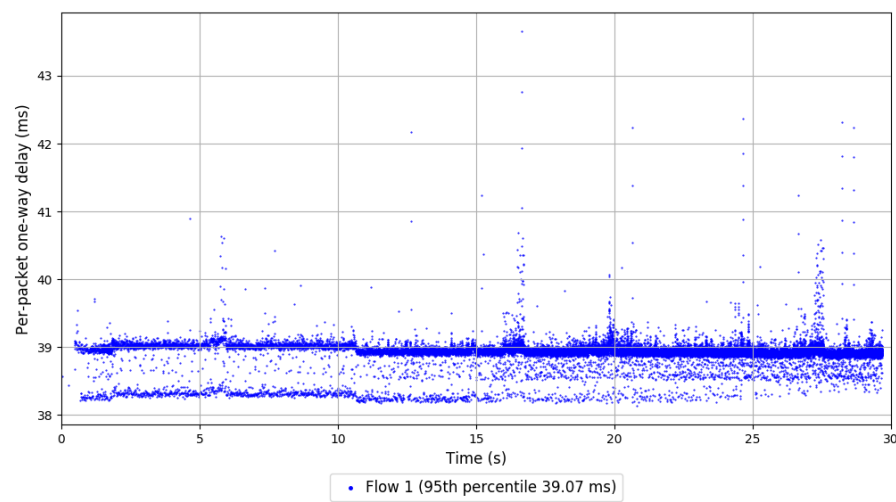
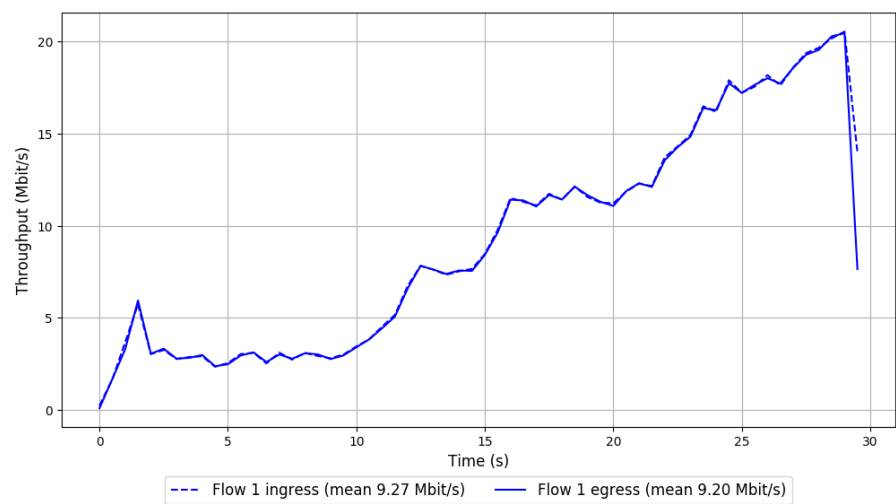
-- Flow 1:

Average throughput: 9.20 Mbit/s

95th percentile per-packet one-way delay: 39.066 ms

Loss rate: 1.44%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 06:06:02

End at: 2018-04-24 06:06:32

Local clock offset: 2.042 ms

Remote clock offset: 30.612 ms

# Below is generated by plot.py at 2018-04-24 12:34:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 39.683 ms

Loss rate: 1.46%

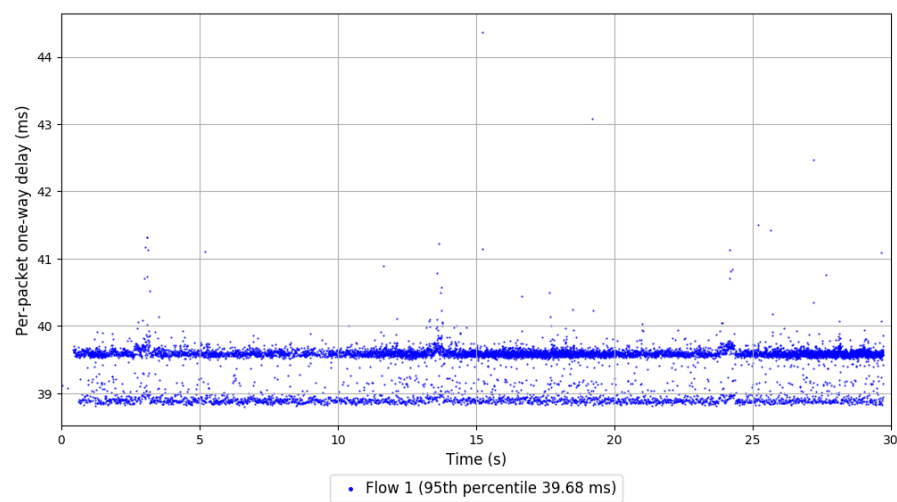
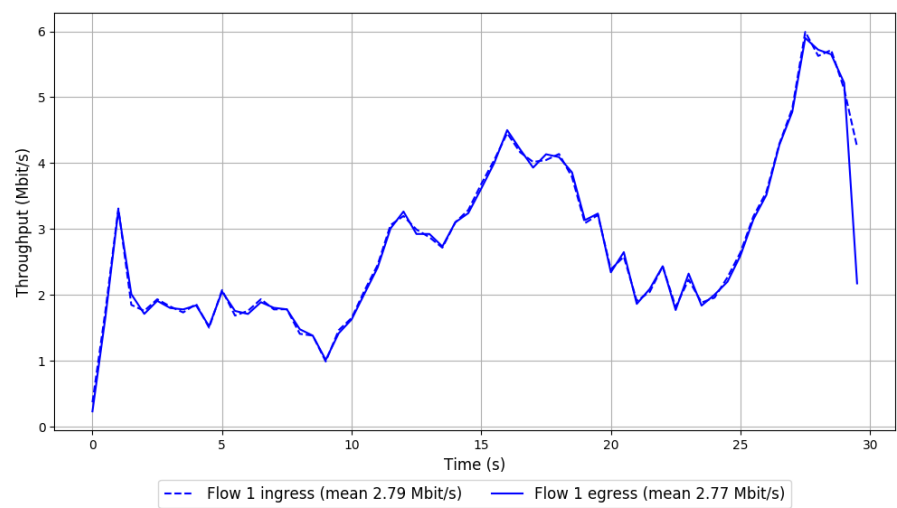
-- Flow 1:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 39.683 ms

Loss rate: 1.46%

Run 3: Report of PCC-Vivace — Data Link

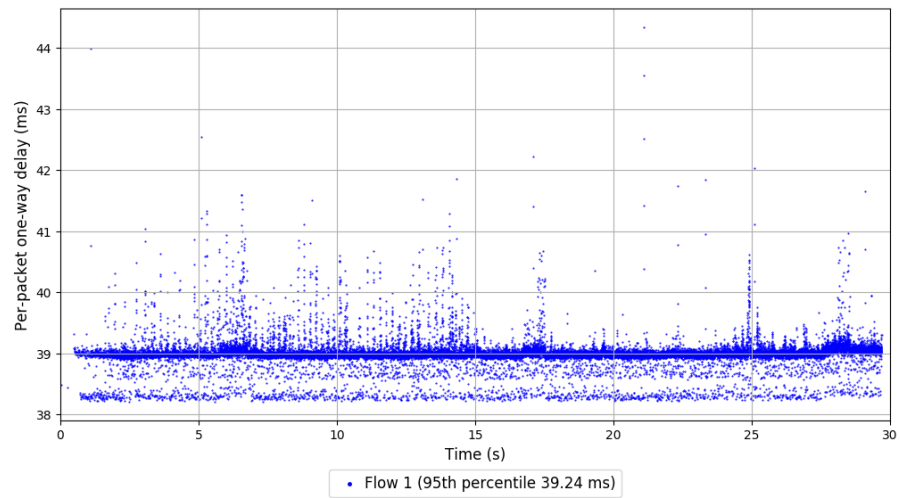
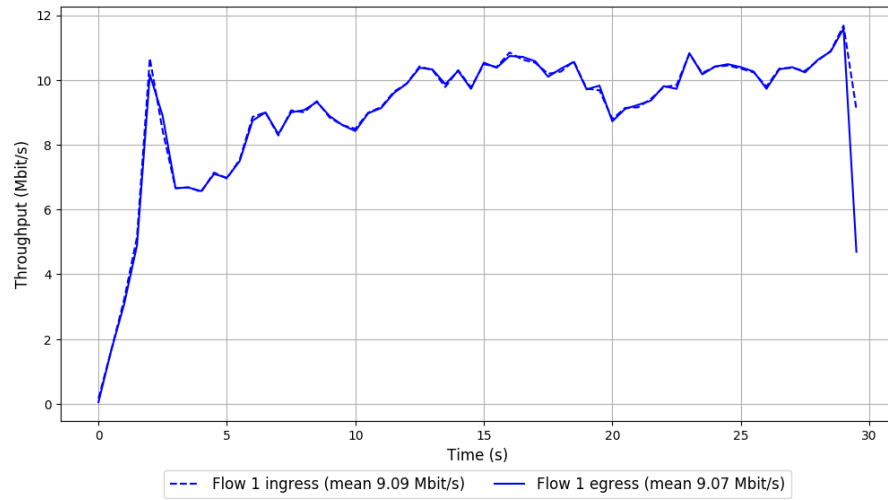


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 06:27:16  
End at: 2018-04-24 06:27:46  
Local clock offset: 3.06 ms  
Remote clock offset: -11.618 ms

# Below is generated by plot.py at 2018-04-24 12:34:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.07 Mbit/s  
95th percentile per-packet one-way delay: 39.236 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 9.07 Mbit/s  
95th percentile per-packet one-way delay: 39.236 ms  
Loss rate: 0.98%

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



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 06:48:33

End at: 2018-04-24 06:49:03

Local clock offset: 3.646 ms

Remote clock offset: 9.034 ms

# Below is generated by plot.py at 2018-04-24 12:34:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 47.757 ms

Loss rate: 1.14%

-- Flow 1:

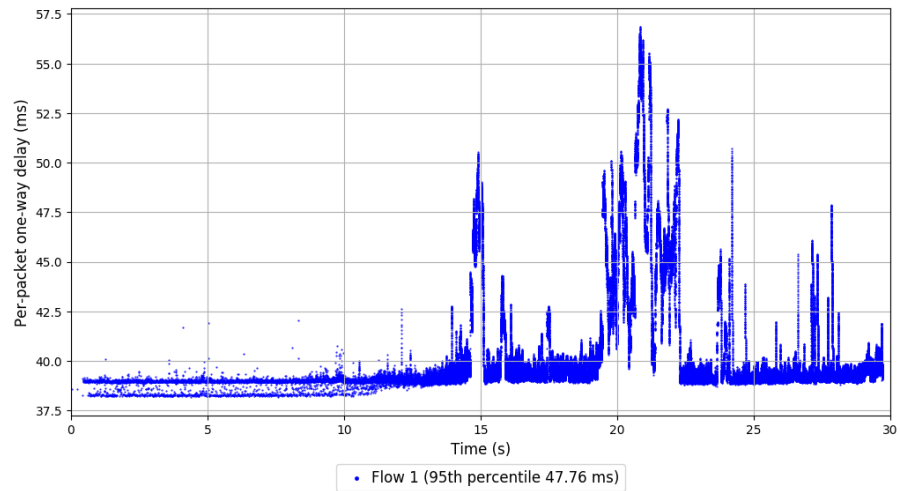
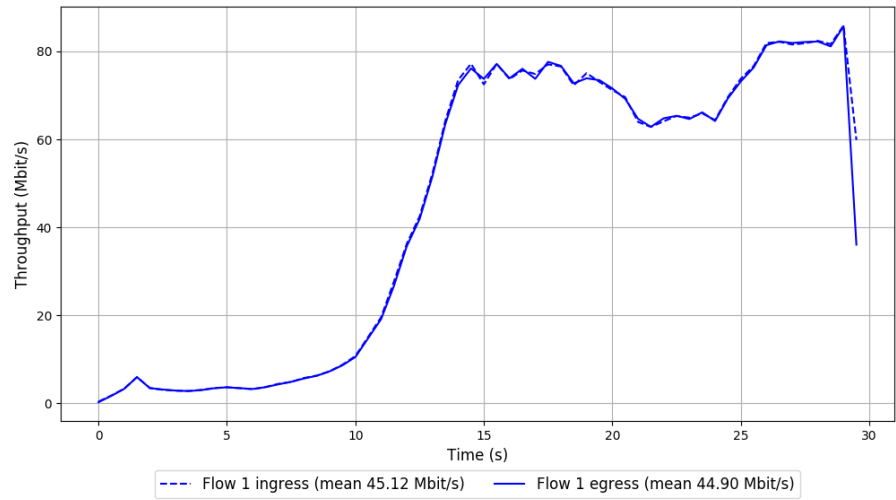
Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 47.757 ms

Loss rate: 1.14%



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



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 07:09:48

End at: 2018-04-24 07:10:18

Local clock offset: 3.173 ms

Remote clock offset: 43.816 ms

# Below is generated by plot.py at 2018-04-24 12:34:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.20 Mbit/s

95th percentile per-packet one-way delay: 55.270 ms

Loss rate: 1.24%

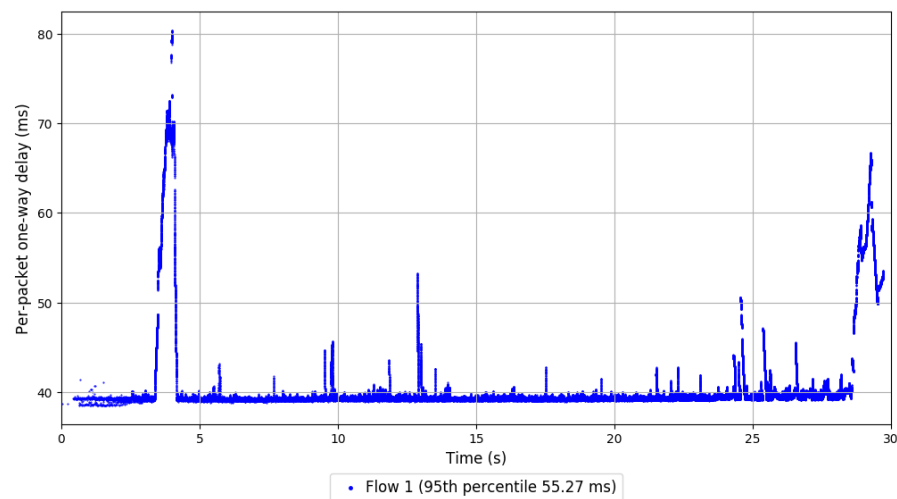
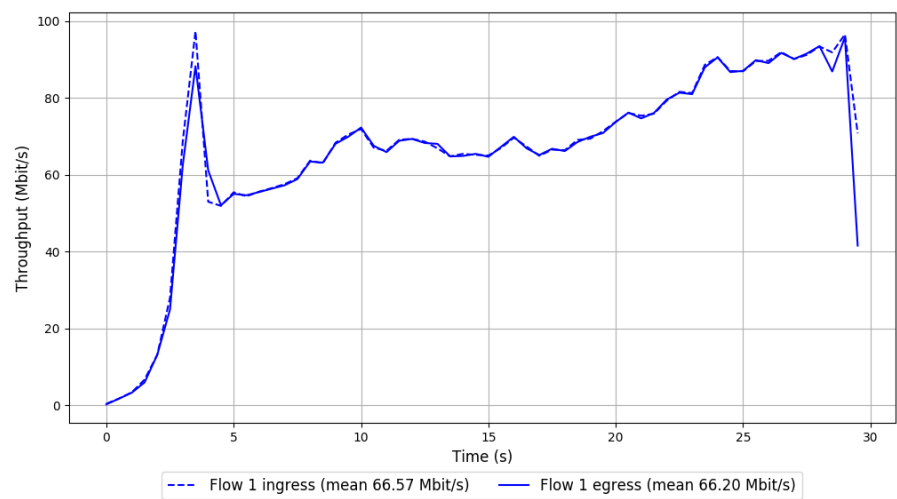
-- Flow 1:

Average throughput: 66.20 Mbit/s

95th percentile per-packet one-way delay: 55.270 ms

Loss rate: 1.24%

Run 6: Report of PCC-Vivace — Data Link

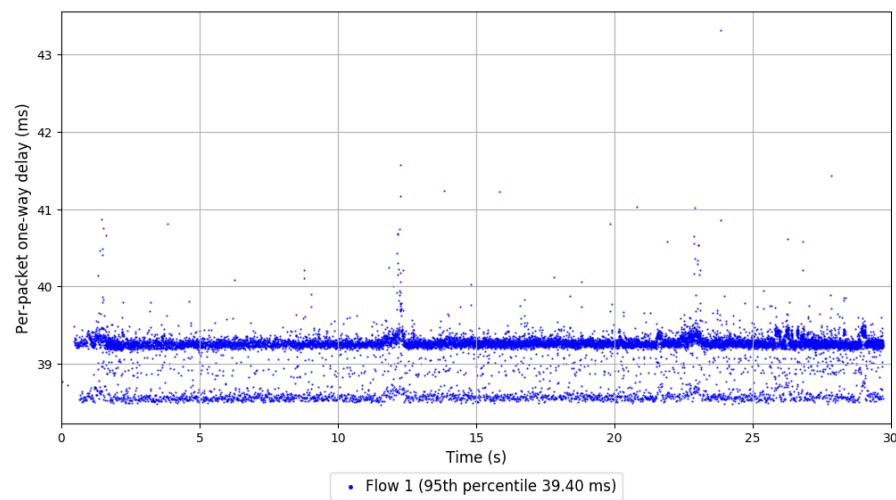
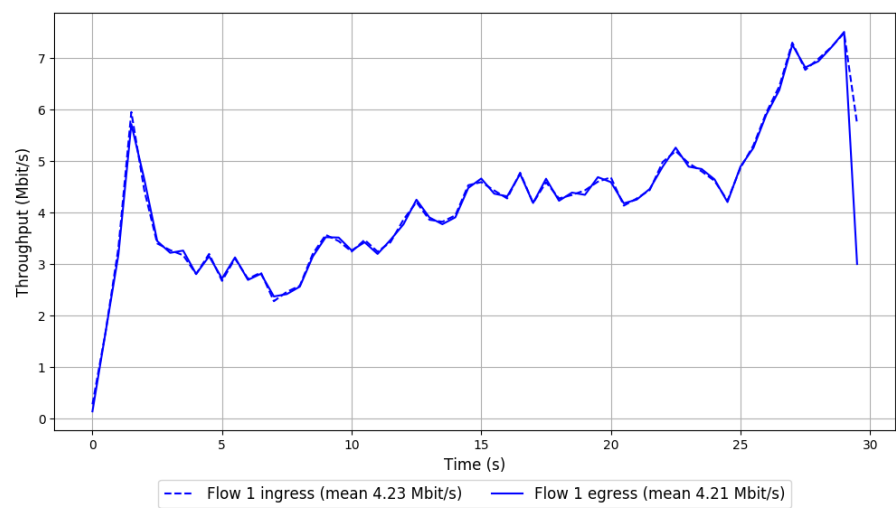


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 07:37:14  
End at: 2018-04-24 07:37:44  
Local clock offset: -3.479 ms  
Remote clock offset: 10.869 ms

# Below is generated by plot.py at 2018-04-24 12:34:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.21 Mbit/s  
95th percentile per-packet one-way delay: 39.396 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 4.21 Mbit/s  
95th percentile per-packet one-way delay: 39.396 ms  
Loss rate: 1.30%

Run 7: Report of PCC-Vivace — Data Link

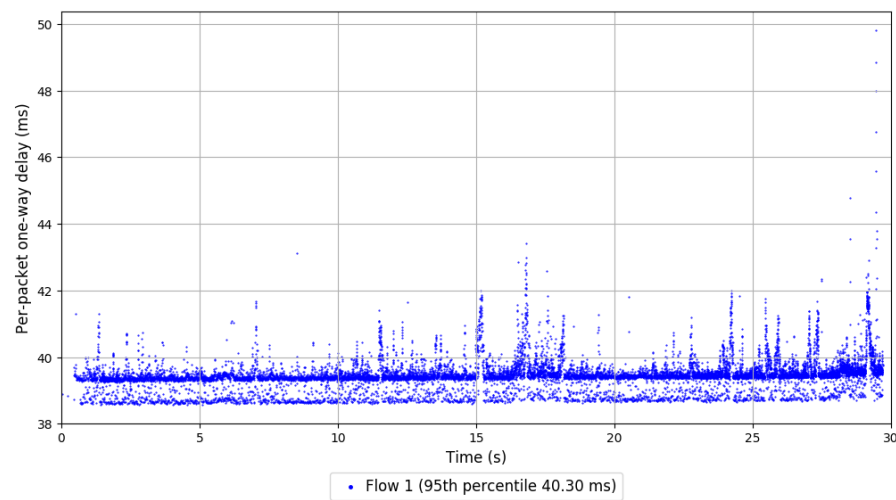
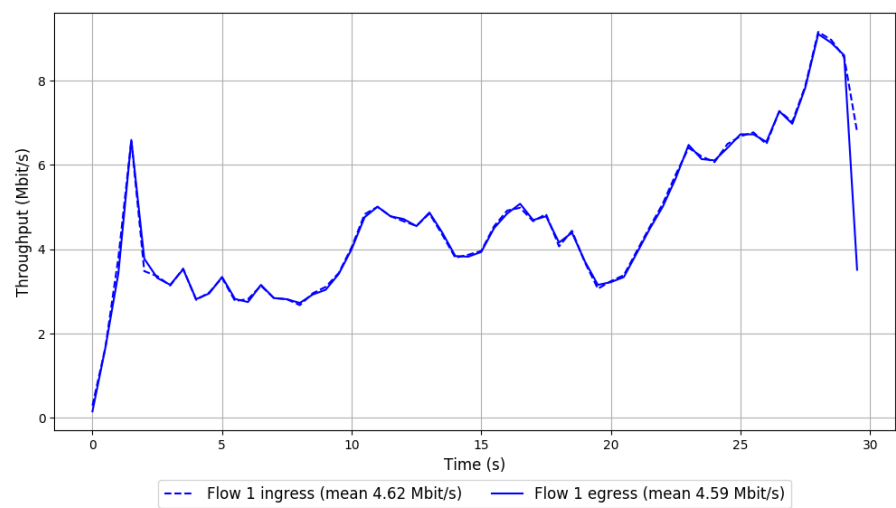


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 07:58:29  
End at: 2018-04-24 07:58:59  
Local clock offset: -4.146 ms  
Remote clock offset: 28.833 ms

# Below is generated by plot.py at 2018-04-24 12:34:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.59 Mbit/s  
95th percentile per-packet one-way delay: 40.300 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 4.59 Mbit/s  
95th percentile per-packet one-way delay: 40.300 ms  
Loss rate: 1.44%

Run 8: Report of PCC-Vivace — Data Link



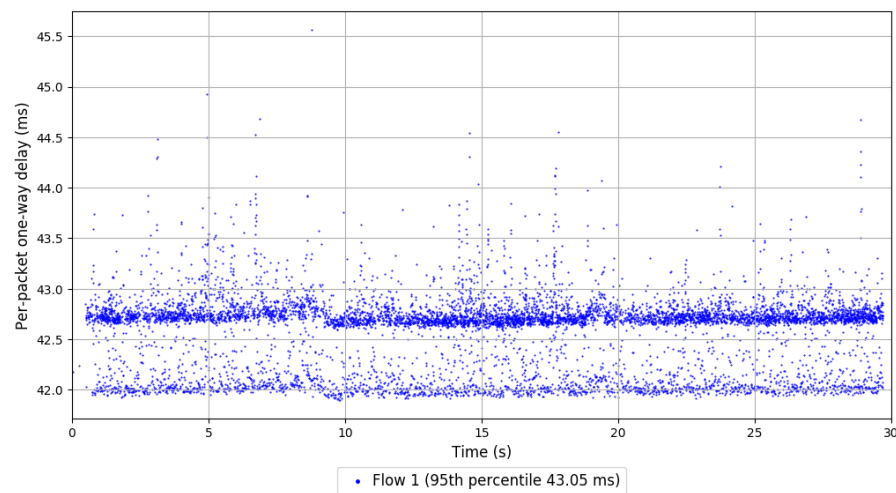
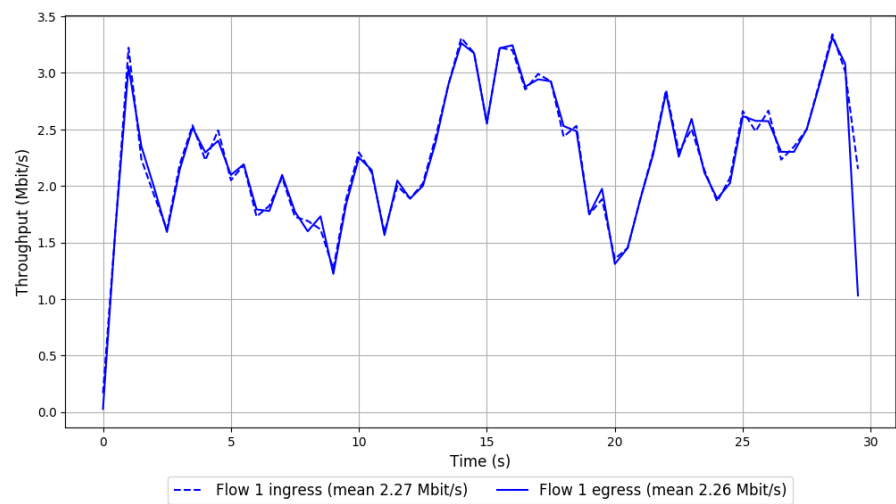
Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 08:19:59  
End at: 2018-04-24 08:20:29  
Local clock offset: -1.45 ms  
Remote clock offset: 30.098 ms

# Below is generated by plot.py at 2018-04-24 12:34:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.26 Mbit/s  
95th percentile per-packet one-way delay: 43.047 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 2.26 Mbit/s  
95th percentile per-packet one-way delay: 43.047 ms  
Loss rate: 0.98%



Run 9: Report of PCC-Vivace — Data Link

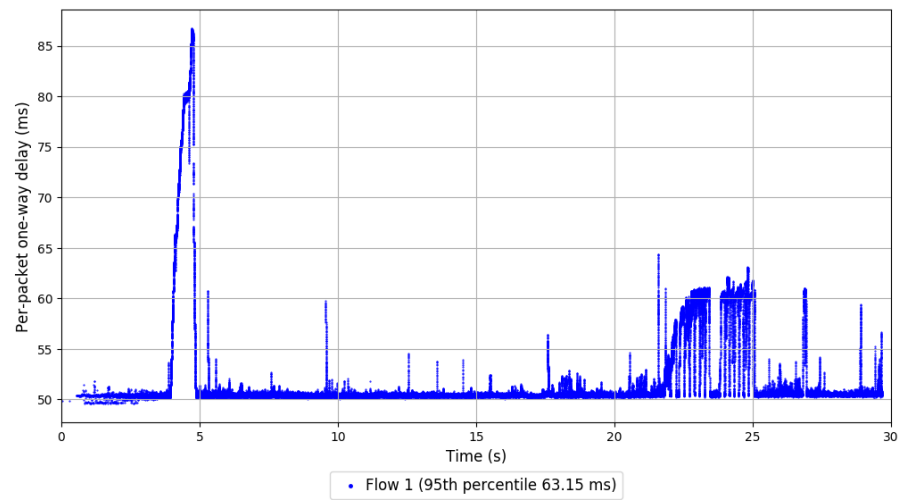
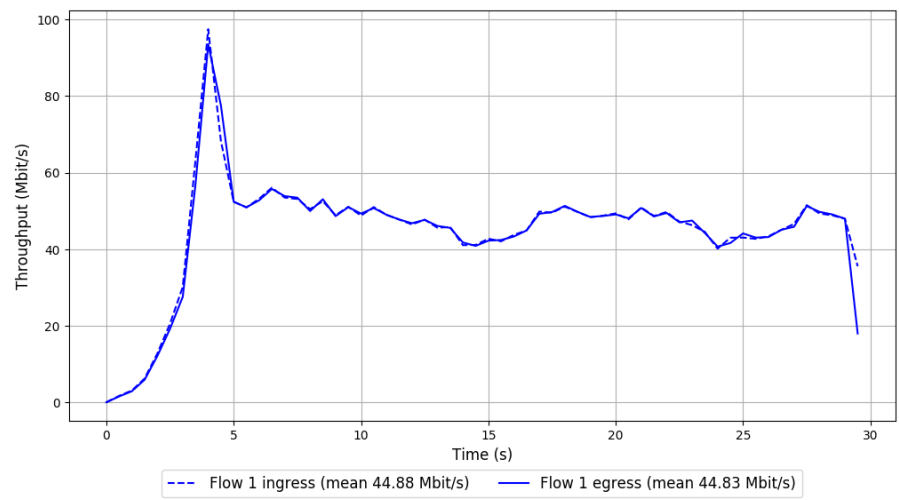


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 08:42:00  
End at: 2018-04-24 08:42:30  
Local clock offset: -3.584 ms  
Remote clock offset: 11.952 ms

# Below is generated by plot.py at 2018-04-24 12:34:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 44.83 Mbit/s  
95th percentile per-packet one-way delay: 63.149 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 44.83 Mbit/s  
95th percentile per-packet one-way delay: 63.149 ms  
Loss rate: 0.87%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 05:22:13  
End at: 2018-04-24 05:22:43  
Local clock offset: -3.206 ms  
Remote clock offset: -1.141 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

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Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 05:43:28

End at: 2018-04-24 05:43:58

Local clock offset: 0.116 ms

Remote clock offset: 1.57 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 06:04:50

End at: 2018-04-24 06:05:20

Local clock offset: 1.981 ms

Remote clock offset: 30.541 ms



Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr  
  
Start at: 2018-04-24 06:26:03  
End at: 2018-04-24 06:26:33  
Local clock offset: 3.053 ms  
Remote clock offset: -11.792 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 06:47:21

End at: 2018-04-24 06:47:51

Local clock offset: 3.734 ms

Remote clock offset: 8.871 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 07:08:36

End at: 2018-04-24 07:09:06

Local clock offset: 3.078 ms

Remote clock offset: 43.865 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 07:36:02

End at: 2018-04-24 07:36:32

Local clock offset: -3.357 ms

Remote clock offset: 11.082 ms



Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 07:57:17

End at: 2018-04-24 07:57:47

Local clock offset: -4.679 ms

Remote clock offset: 28.091 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 08:18:47

End at: 2018-04-24 08:19:17

Local clock offset: -1.464 ms

Remote clock offset: 23.04 ms

Run 9: Report of PCC-Expr — Data Link

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Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 08:40:47

End at: 2018-04-24 08:41:17

Local clock offset: -3.446 ms

Remote clock offset: 20.907 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing