

## Pantheon Report

Generated at 2019-03-08 23:37:19 (UTC).

Data path: AWS California 2 on **ens5** (*local*) → Mexico on **em1** (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

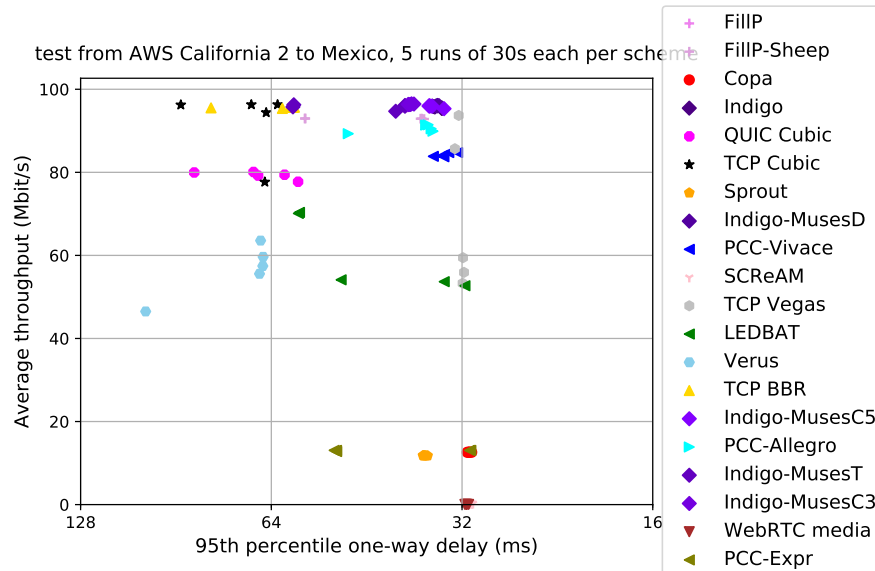
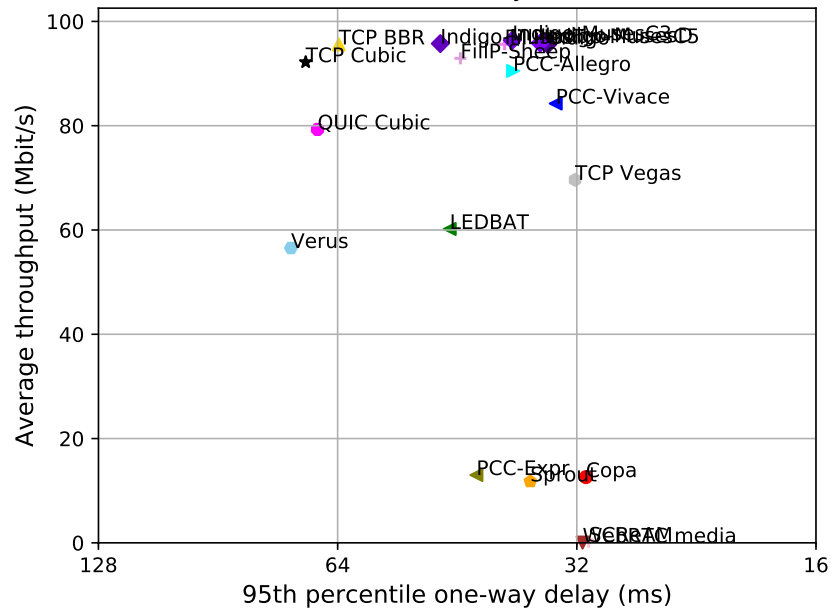
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
  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 @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS California 2 to Mexico, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	95.59	63.79	1.56
Copa	5	12.61	31.17	70.72
TCP Cubic	5	92.18	70.21	0.54
FillP	5	95.62	39.45	0.66
FillP-Sheep	5	92.92	44.84	0.59
Indigo	5	95.58	34.82	0.01
Indigo-MusesC3	5	96.39	38.58	0.04
Indigo-MusesC5	5	95.84	35.58	0.06
Indigo-MusesD	5	96.02	35.11	0.04
Indigo-MusesT	5	95.74	47.52	0.88
LEDBAT	5	60.19	46.25	0.01
PCC-Allegro	5	90.50	38.49	0.73
PCC-Expr	5	13.00	42.81	48.86
QUIC Cubic	5	79.28	67.84	1.54
SCReAM	5	0.21	30.92	0.00
Sprout	5	11.79	36.62	0.04
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	69.60	32.16	0.82
Verus	5	56.54	73.27	36.44
PCC-Vivace	5	84.24	34.02	0.02
WebRTC media	5	0.05	31.47	0.00

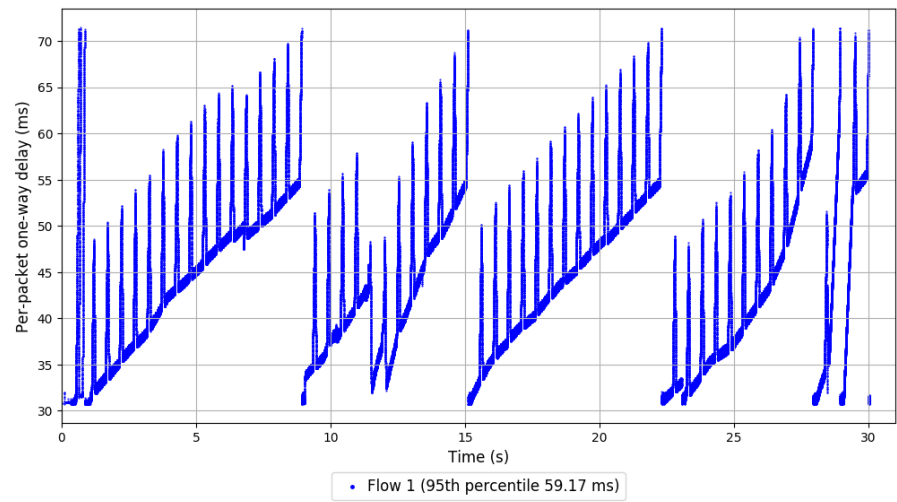
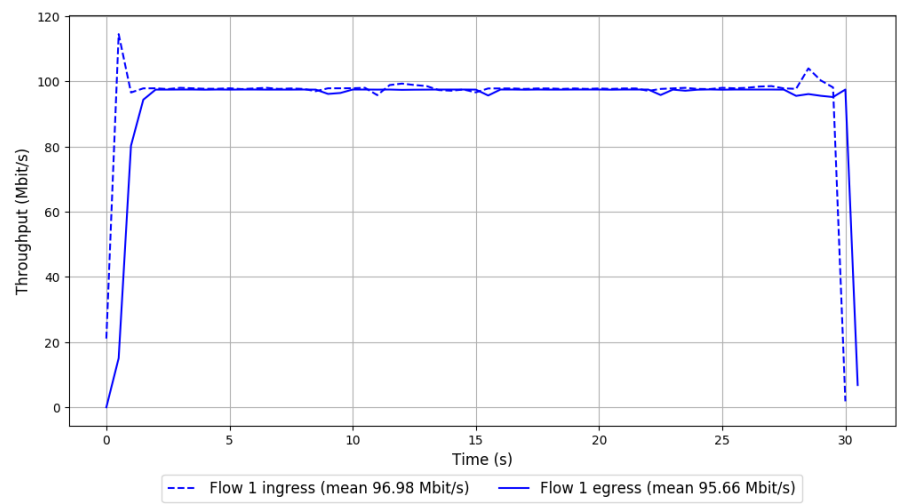


Run 1: Statistics of TCP BBR

Start at: 2019-03-08 21:20:58  
End at: 2019-03-08 21:21:28  
Local clock offset: -0.248 ms  
Remote clock offset: -3.318 ms

# Below is generated by plot.py at 2019-03-08 23:27:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.66 Mbit/s  
95th percentile per-packet one-way delay: 59.173 ms  
Loss rate: 1.35%  
-- Flow 1:  
Average throughput: 95.66 Mbit/s  
95th percentile per-packet one-way delay: 59.173 ms  
Loss rate: 1.35%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-08 21:45:16

End at: 2019-03-08 21:45:46

Local clock offset: -0.826 ms

Remote clock offset: -2.68 ms

# Below is generated by plot.py at 2019-03-08 23:27:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 58.848 ms

Loss rate: 1.34%

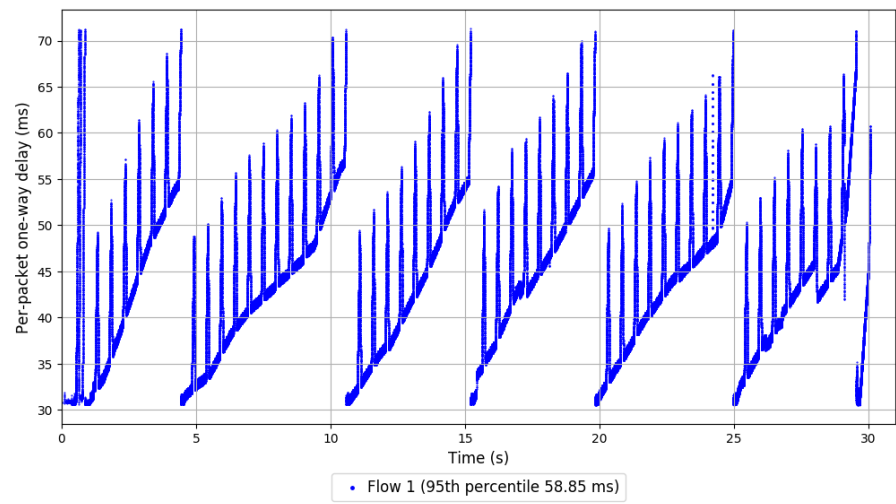
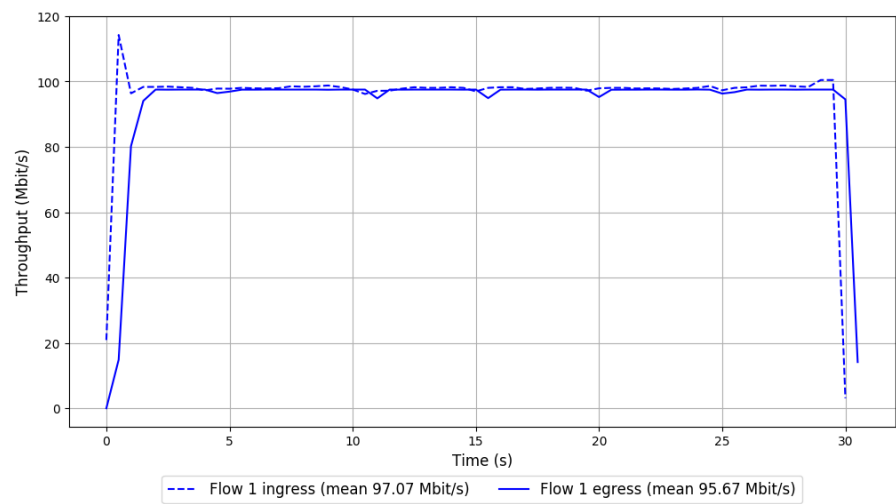
-- Flow 1:

Average throughput: 95.67 Mbit/s

95th percentile per-packet one-way delay: 58.848 ms

Loss rate: 1.34%

Run 2: Report of TCP BBR — Data Link

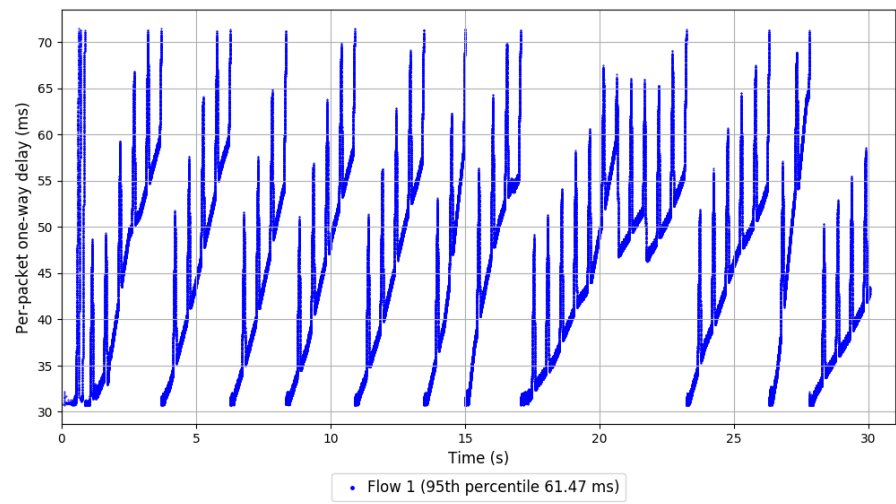
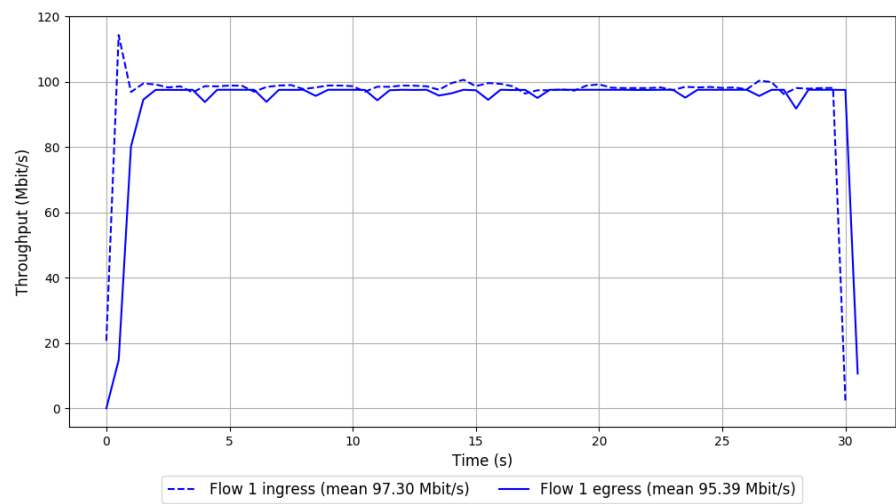


Run 3: Statistics of TCP BBR

Start at: 2019-03-08 22:09:51  
End at: 2019-03-08 22:10:21  
Local clock offset: -3.22 ms  
Remote clock offset: -1.906 ms

# Below is generated by plot.py at 2019-03-08 23:27:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.39 Mbit/s  
95th percentile per-packet one-way delay: 61.473 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 95.39 Mbit/s  
95th percentile per-packet one-way delay: 61.473 ms  
Loss rate: 1.93%

Run 3: Report of TCP BBR — Data Link

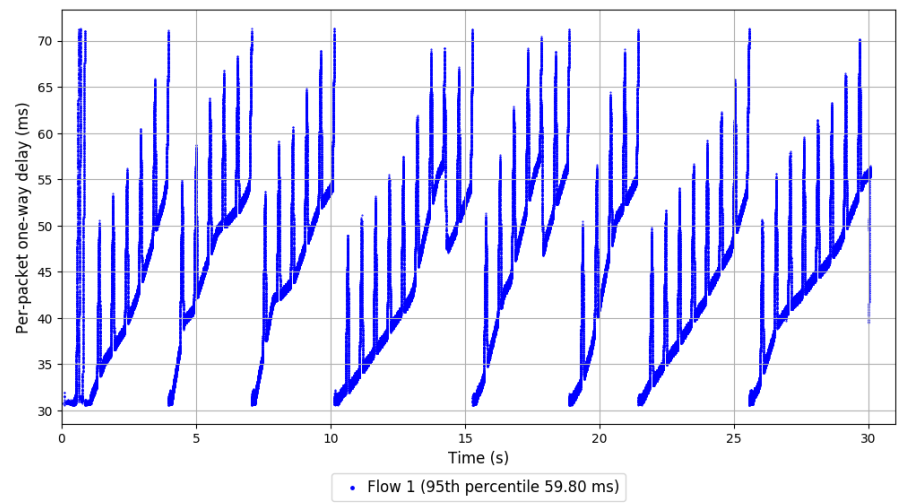
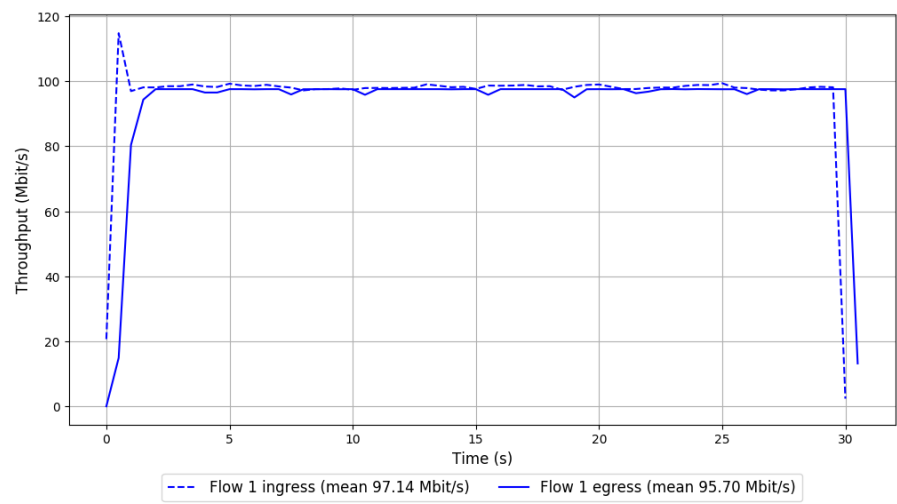


Run 4: Statistics of TCP BBR

Start at: 2019-03-08 22:35:34  
End at: 2019-03-08 22:36:04  
Local clock offset: -4.519 ms  
Remote clock offset: -1.557 ms

# Below is generated by plot.py at 2019-03-08 23:27:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.70 Mbit/s  
95th percentile per-packet one-way delay: 59.799 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 95.70 Mbit/s  
95th percentile per-packet one-way delay: 59.799 ms  
Loss rate: 1.41%

Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-03-08 23:01:39

End at: 2019-03-08 23:02:09

Local clock offset: 0.662 ms

Remote clock offset: 18.445 ms

# Below is generated by plot.py at 2019-03-08 23:27:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 79.676 ms

Loss rate: 1.76%

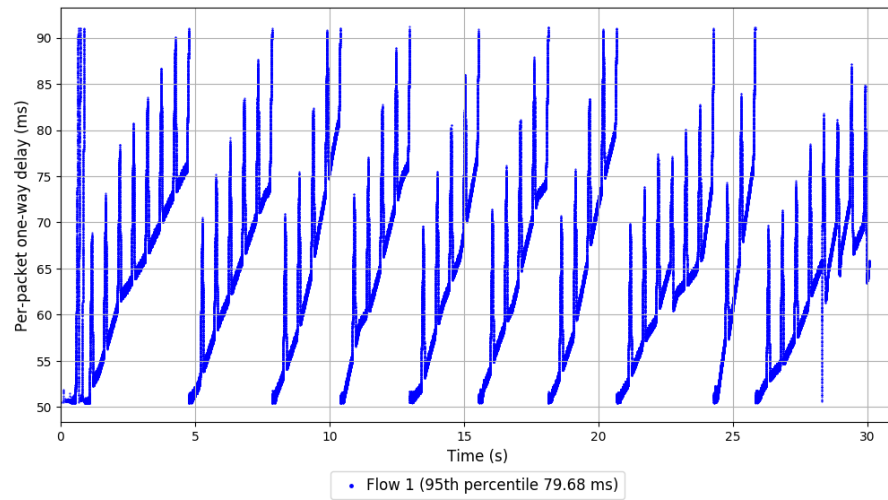
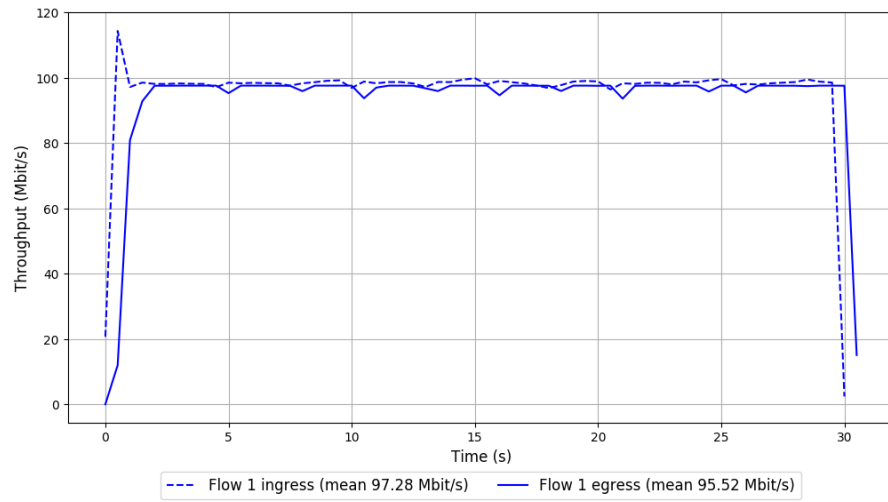
-- Flow 1:

Average throughput: 95.52 Mbit/s

95th percentile per-packet one-way delay: 79.676 ms

Loss rate: 1.76%

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

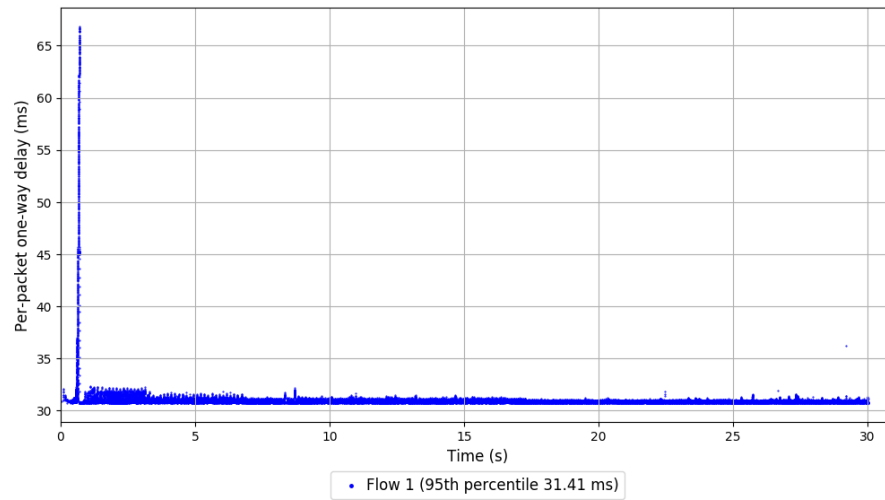
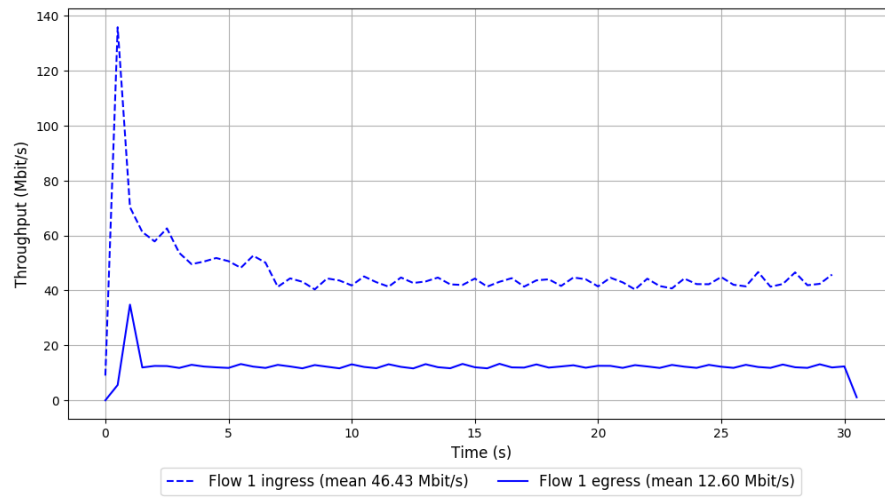


Run 1: Statistics of Copa

Start at: 2019-03-08 21:35:58  
End at: 2019-03-08 21:36:28  
Local clock offset: -0.482 ms  
Remote clock offset: -2.958 ms

# Below is generated by plot.py at 2019-03-08 23:27:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.60 Mbit/s  
95th percentile per-packet one-way delay: 31.408 ms  
Loss rate: 72.87%  
-- Flow 1:  
Average throughput: 12.60 Mbit/s  
95th percentile per-packet one-way delay: 31.408 ms  
Loss rate: 72.87%

## Run 1: Report of Copa — Data Link

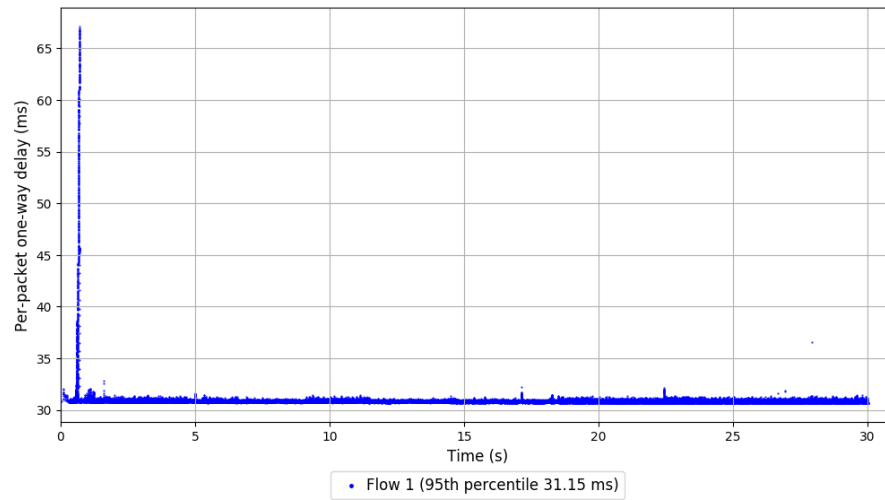
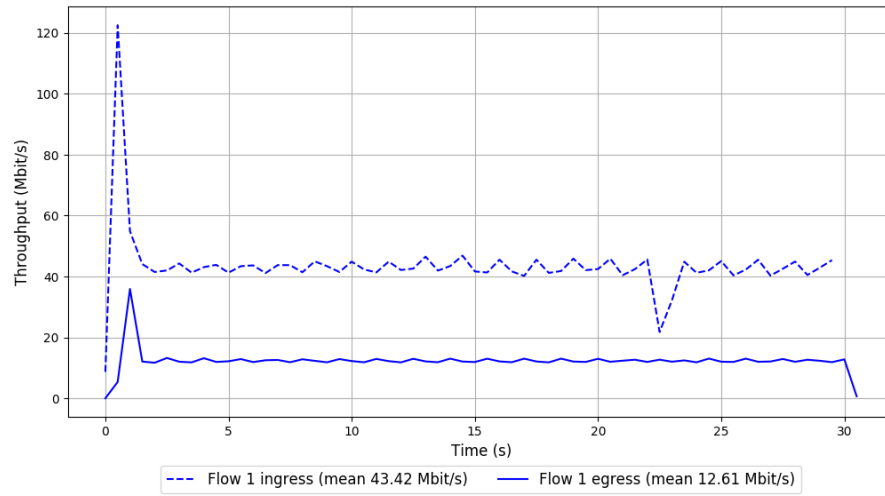


Run 2: Statistics of Copa

Start at: 2019-03-08 22:00:25  
End at: 2019-03-08 22:00:55  
Local clock offset: -2.669 ms  
Remote clock offset: -2.179 ms

# Below is generated by plot.py at 2019-03-08 23:27:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.61 Mbit/s  
95th percentile per-packet one-way delay: 31.149 ms  
Loss rate: 70.96%  
-- Flow 1:  
Average throughput: 12.61 Mbit/s  
95th percentile per-packet one-way delay: 31.149 ms  
Loss rate: 70.96%

## Run 2: Report of Copa — Data Link

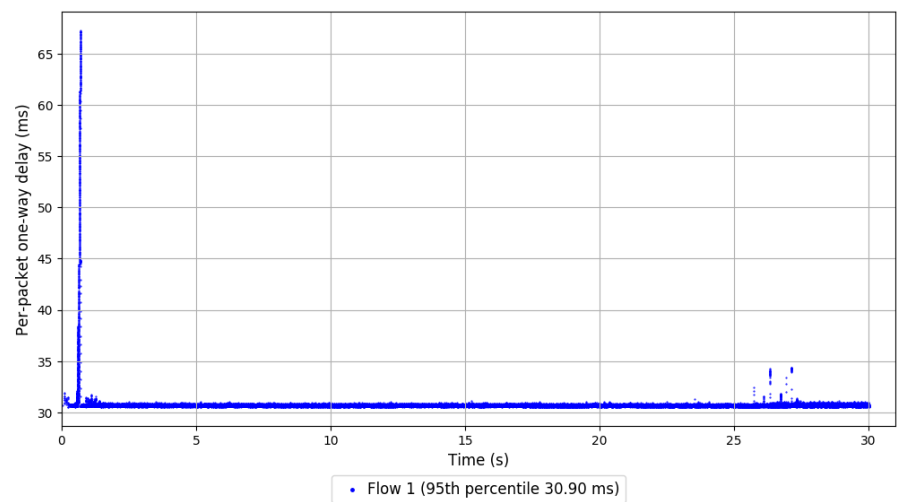
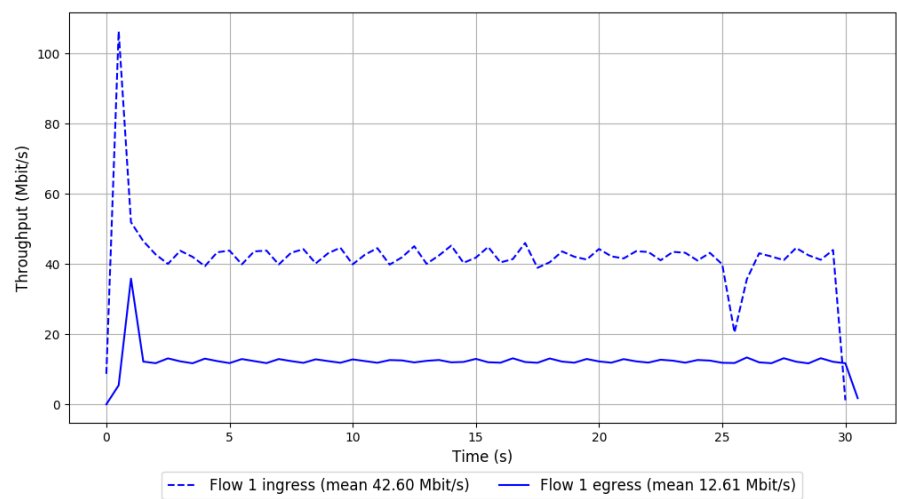


Run 3: Statistics of Copa

Start at: 2019-03-08 22:25:37  
End at: 2019-03-08 22:26:07  
Local clock offset: -4.011 ms  
Remote clock offset: -1.789 ms

# Below is generated by plot.py at 2019-03-08 23:27:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.61 Mbit/s  
95th percentile per-packet one-way delay: 30.897 ms  
Loss rate: 70.40%  
-- Flow 1:  
Average throughput: 12.61 Mbit/s  
95th percentile per-packet one-way delay: 30.897 ms  
Loss rate: 70.40%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-03-08 22:51:44

End at: 2019-03-08 22:52:14

Local clock offset: -1.401 ms

Remote clock offset: -1.32 ms

# Below is generated by plot.py at 2019-03-08 23:27:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 31.233 ms

Loss rate: 70.81%

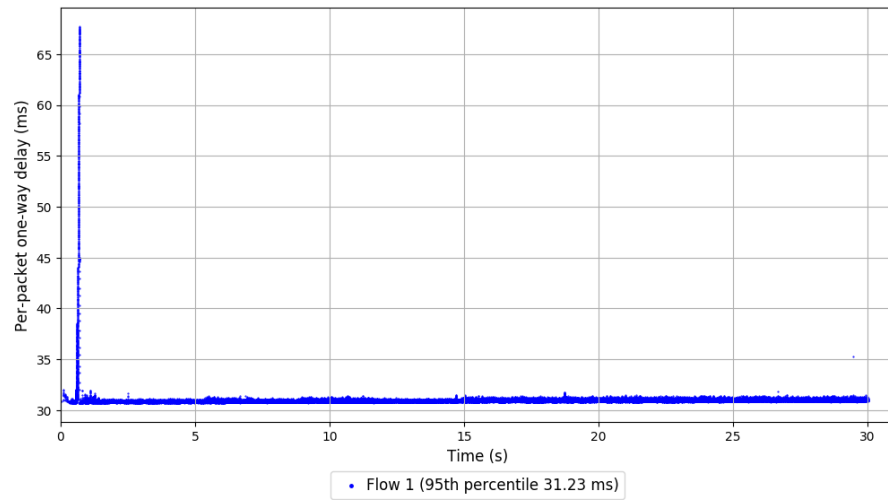
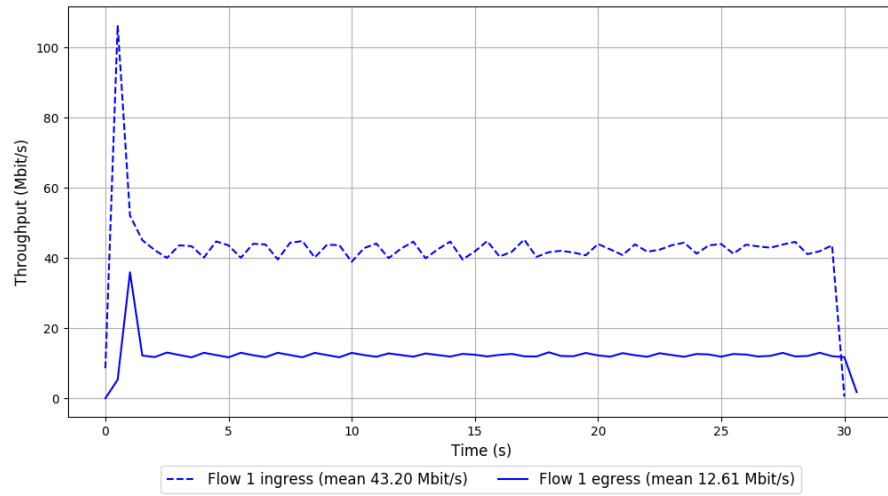
-- Flow 1:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 31.233 ms

Loss rate: 70.81%

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

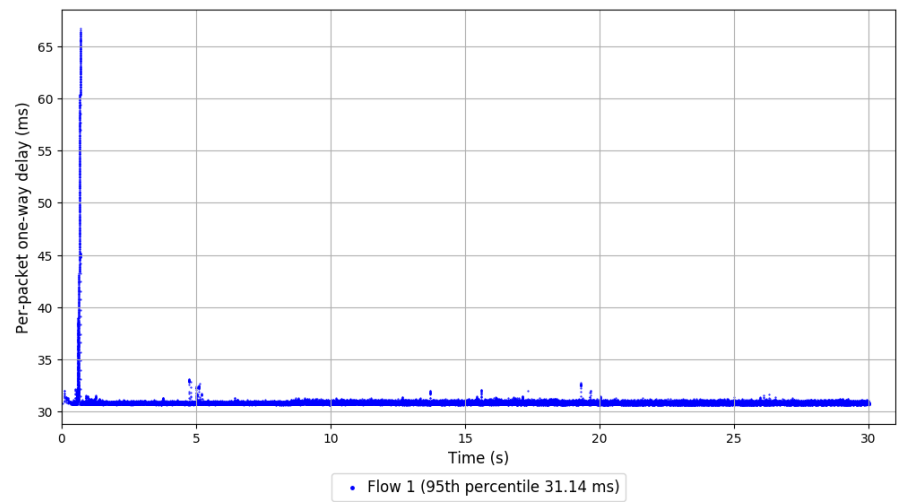
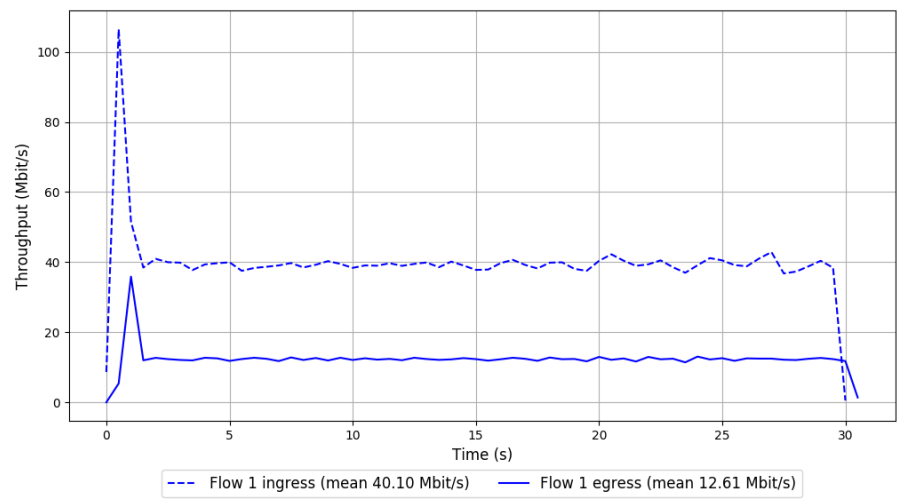


Run 5: Statistics of Copa

Start at: 2019-03-08 23:17:13  
End at: 2019-03-08 23:17:44  
Local clock offset: 1.587 ms  
Remote clock offset: -1.148 ms

# Below is generated by plot.py at 2019-03-08 23:27:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.61 Mbit/s  
95th percentile per-packet one-way delay: 31.140 ms  
Loss rate: 68.55%  
-- Flow 1:  
Average throughput: 12.61 Mbit/s  
95th percentile per-packet one-way delay: 31.140 ms  
Loss rate: 68.55%

Run 5: Report of Copa — Data Link

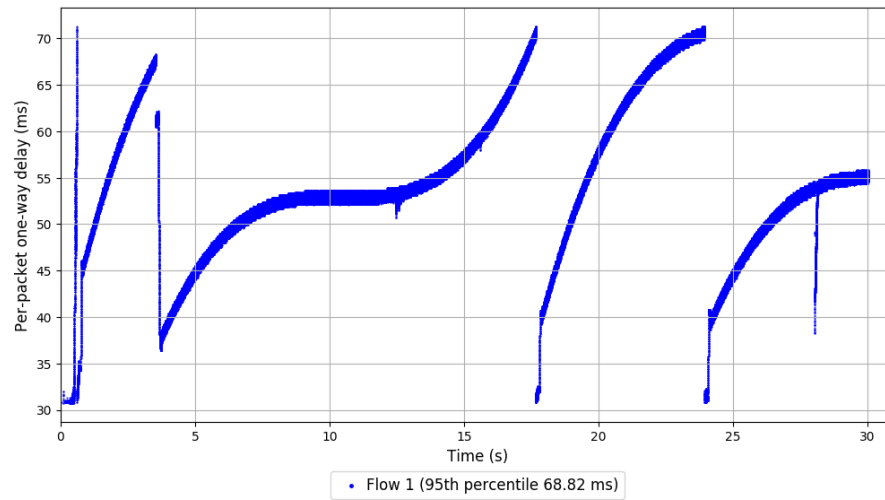
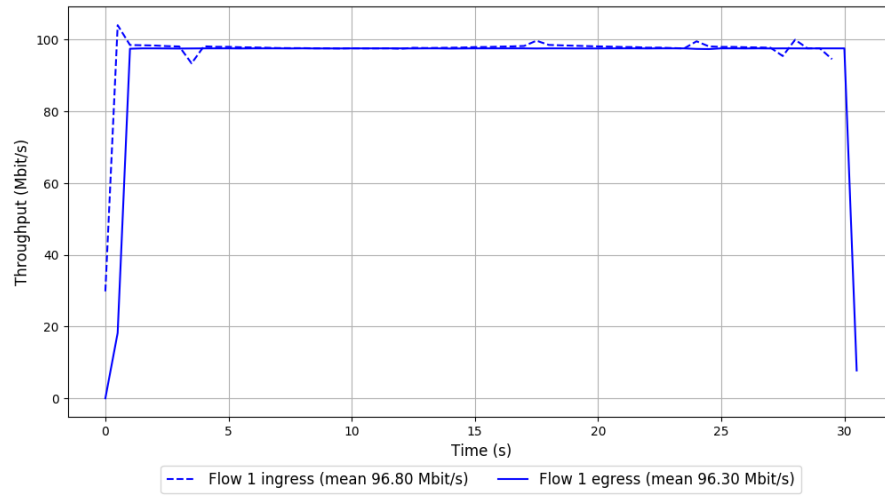


Run 1: Statistics of TCP Cubic

Start at: 2019-03-08 21:25:35  
End at: 2019-03-08 21:26:05  
Local clock offset: -0.3 ms  
Remote clock offset: -3.229 ms

# Below is generated by plot.py at 2019-03-08 23:27:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 68.821 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 68.821 ms  
Loss rate: 0.44%

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

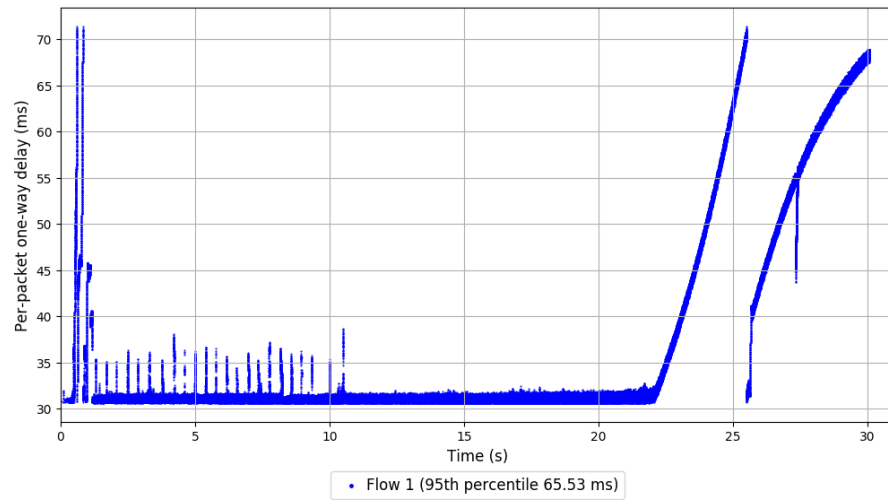
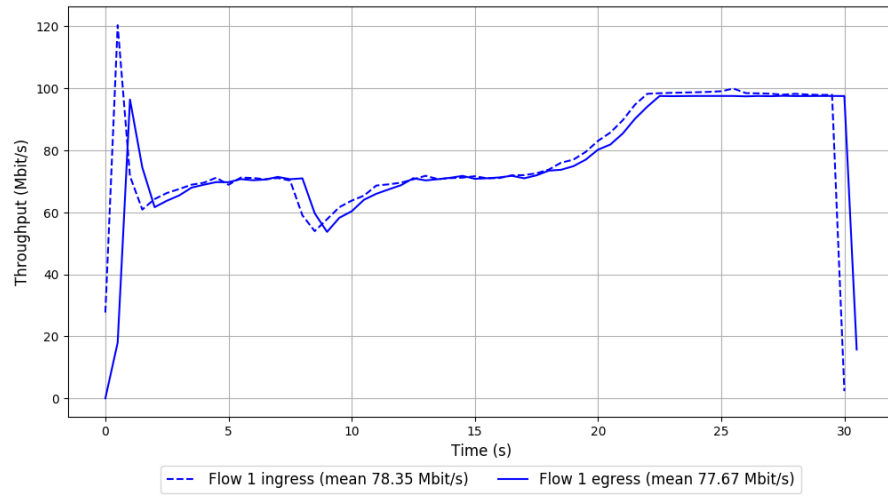


Run 2: Statistics of TCP Cubic

Start at: 2019-03-08 21:50:00  
End at: 2019-03-08 21:50:30  
Local clock offset: -1.615 ms  
Remote clock offset: -2.542 ms

# Below is generated by plot.py at 2019-03-08 23:27:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.67 Mbit/s  
95th percentile per-packet one-way delay: 65.531 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 77.67 Mbit/s  
95th percentile per-packet one-way delay: 65.531 ms  
Loss rate: 0.74%

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



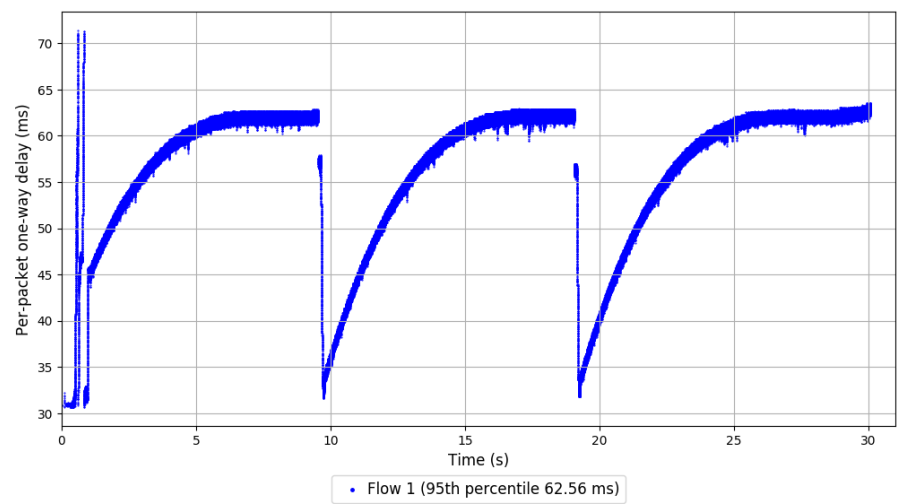
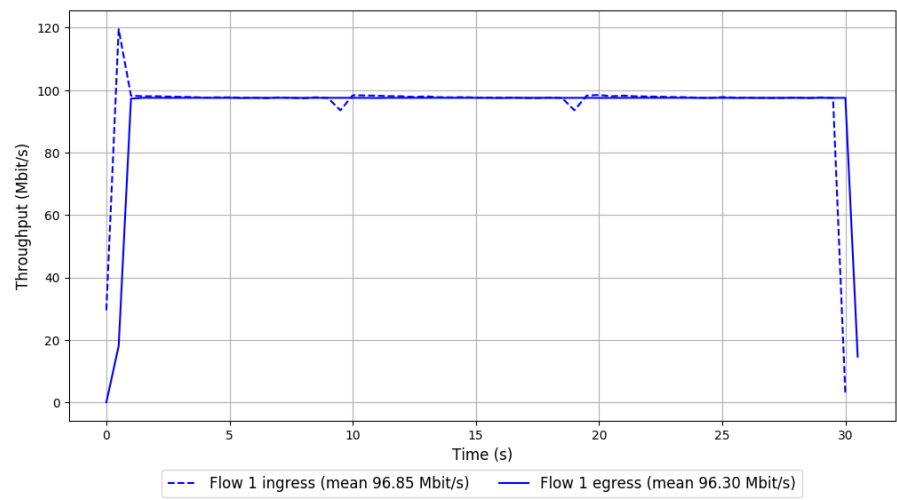


Run 3: Statistics of TCP Cubic

Start at: 2019-03-08 22:14:48  
End at: 2019-03-08 22:15:18  
Local clock offset: -3.463 ms  
Remote clock offset: -1.891 ms

# Below is generated by plot.py at 2019-03-08 23:28:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 62.565 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 62.565 ms  
Loss rate: 0.46%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-08 22:40:30

End at: 2019-03-08 22:41:00

Local clock offset: -4.752 ms

Remote clock offset: 18.39 ms

# Below is generated by plot.py at 2019-03-08 23:28:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 88.924 ms

Loss rate: 0.56%

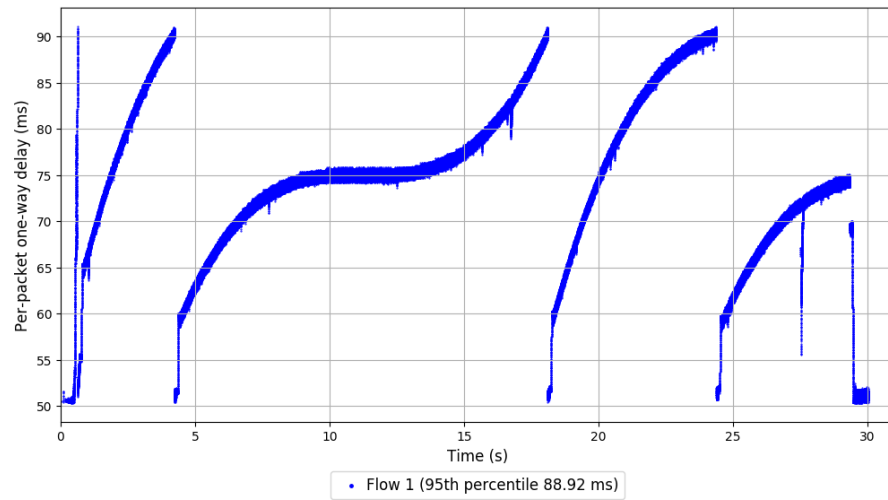
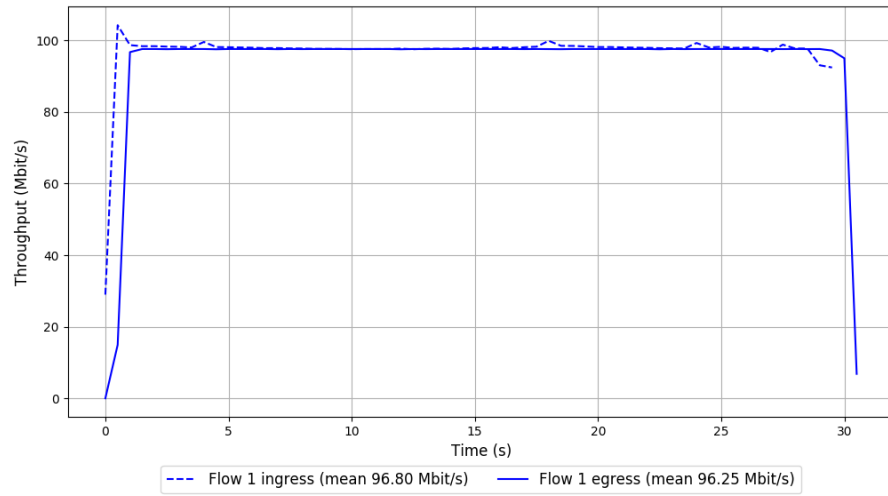
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 88.924 ms

Loss rate: 0.56%

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

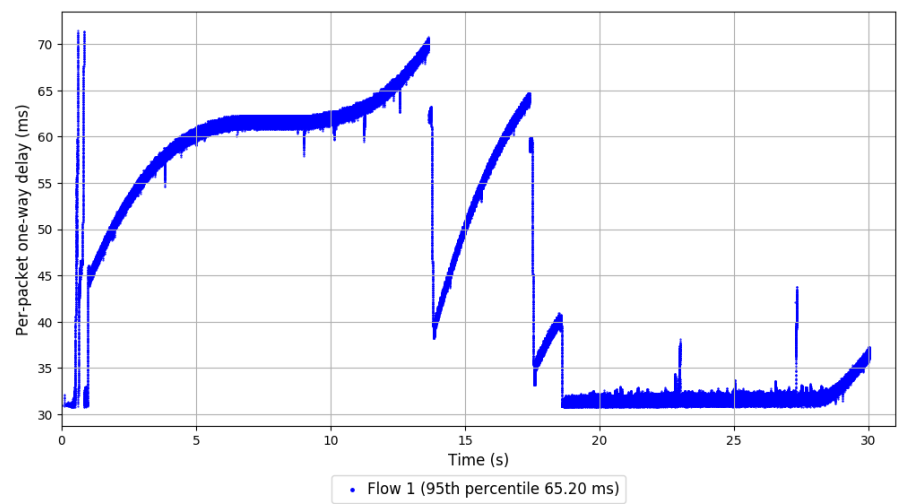
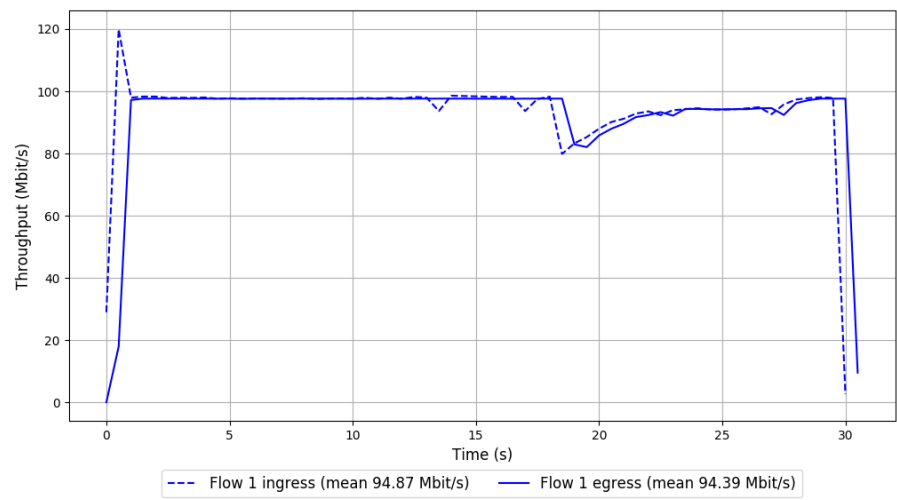


Run 5: Statistics of TCP Cubic

Start at: 2019-03-08 23:06:37  
End at: 2019-03-08 23:07:07  
Local clock offset: 1.262 ms  
Remote clock offset: -1.151 ms

# Below is generated by plot.py at 2019-03-08 23:28:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.39 Mbit/s  
95th percentile per-packet one-way delay: 65.202 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 94.39 Mbit/s  
95th percentile per-packet one-way delay: 65.202 ms  
Loss rate: 0.49%

Run 5: Report of TCP Cubic — Data Link

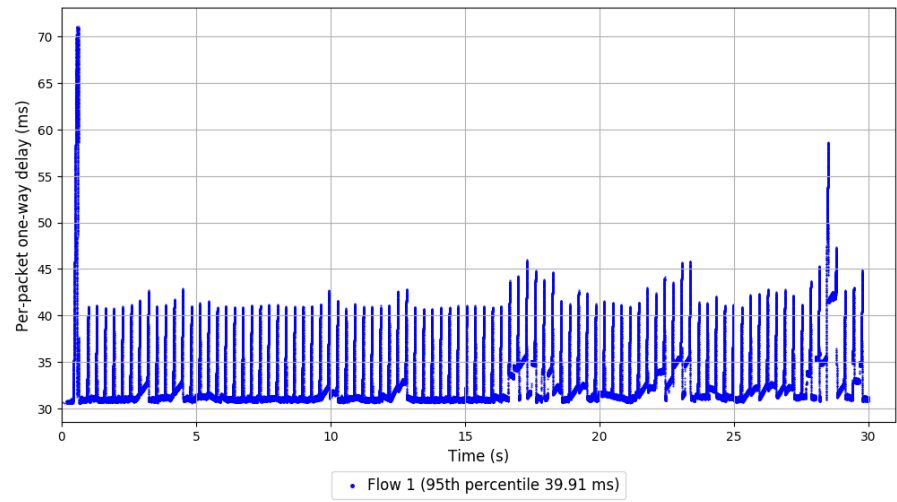
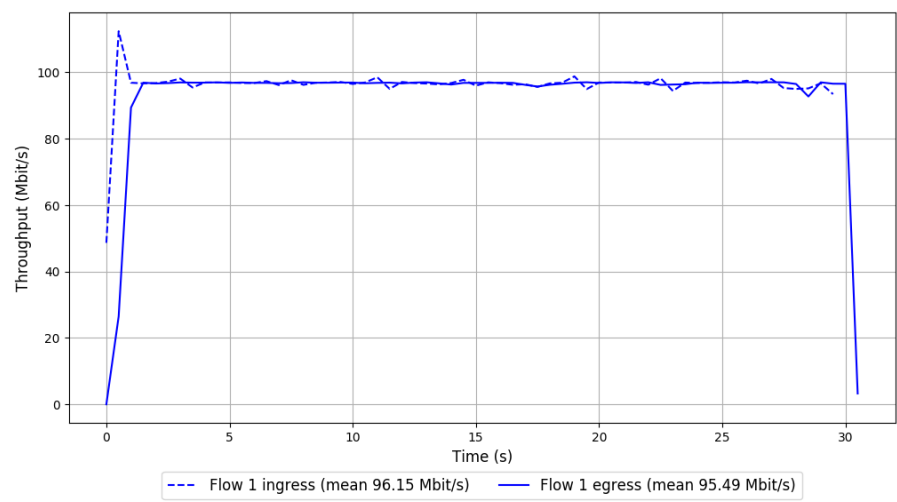


Run 1: Statistics of FillP

Start at: 2019-03-08 21:40:35  
End at: 2019-03-08 21:41:06  
Local clock offset: -0.542 ms  
Remote clock offset: -2.846 ms

# Below is generated by plot.py at 2019-03-08 23:28:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.49 Mbit/s  
95th percentile per-packet one-way delay: 39.909 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 95.49 Mbit/s  
95th percentile per-packet one-way delay: 39.909 ms  
Loss rate: 0.68%

Run 1: Report of FillP — Data Link



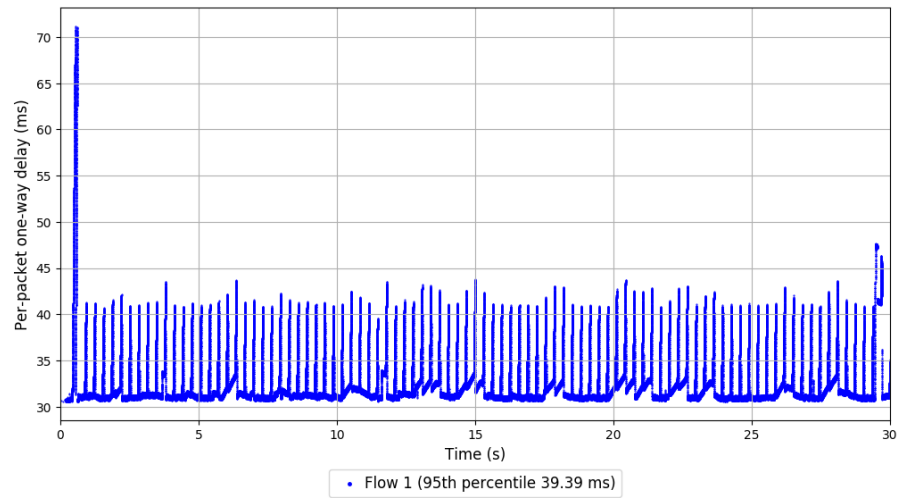
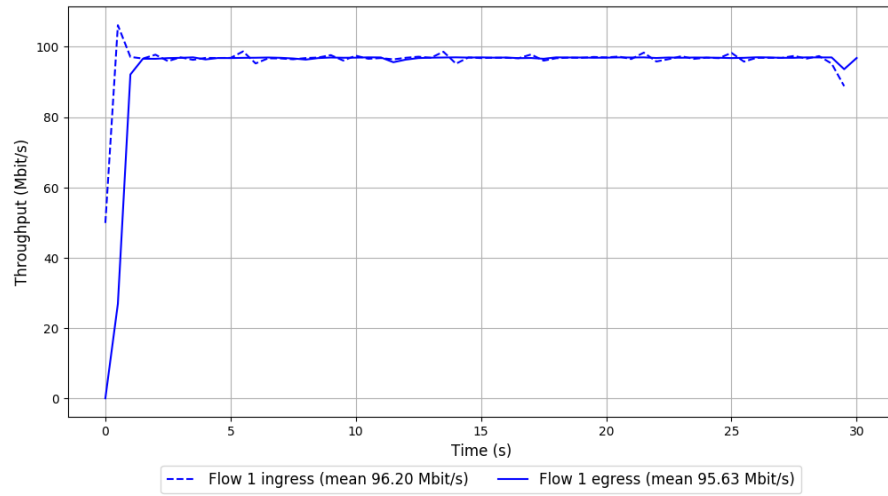


Run 2: Statistics of FillP

Start at: 2019-03-08 22:05:00  
End at: 2019-03-08 22:05:30  
Local clock offset: -2.926 ms  
Remote clock offset: -2.081 ms

# Below is generated by plot.py at 2019-03-08 23:28:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.63 Mbit/s  
95th percentile per-packet one-way delay: 39.389 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 95.63 Mbit/s  
95th percentile per-packet one-way delay: 39.389 ms  
Loss rate: 0.57%

## Run 2: Report of FillP — Data Link

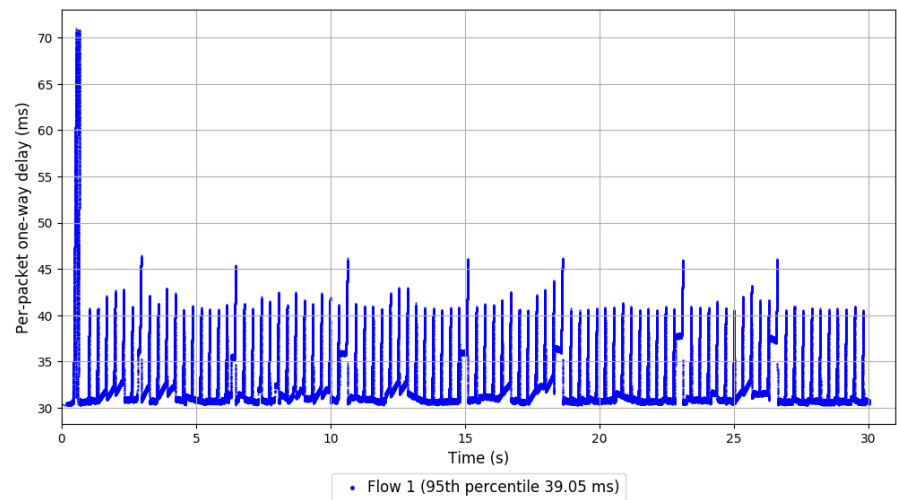
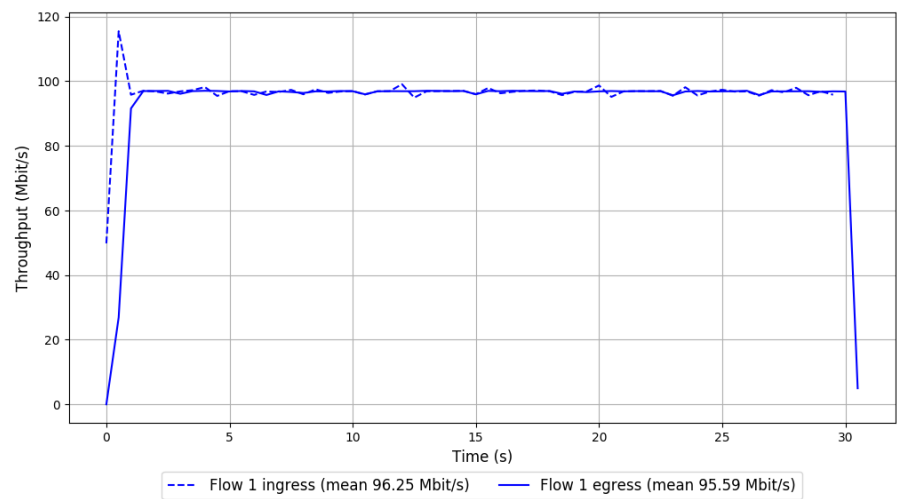


Run 3: Statistics of FillP

Start at: 2019-03-08 22:30:35  
End at: 2019-03-08 22:31:05  
Local clock offset: -4.256 ms  
Remote clock offset: -1.697 ms

# Below is generated by plot.py at 2019-03-08 23:28:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.59 Mbit/s  
95th percentile per-packet one-way delay: 39.049 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 95.59 Mbit/s  
95th percentile per-packet one-way delay: 39.049 ms  
Loss rate: 0.69%

Run 3: Report of FillP — Data Link

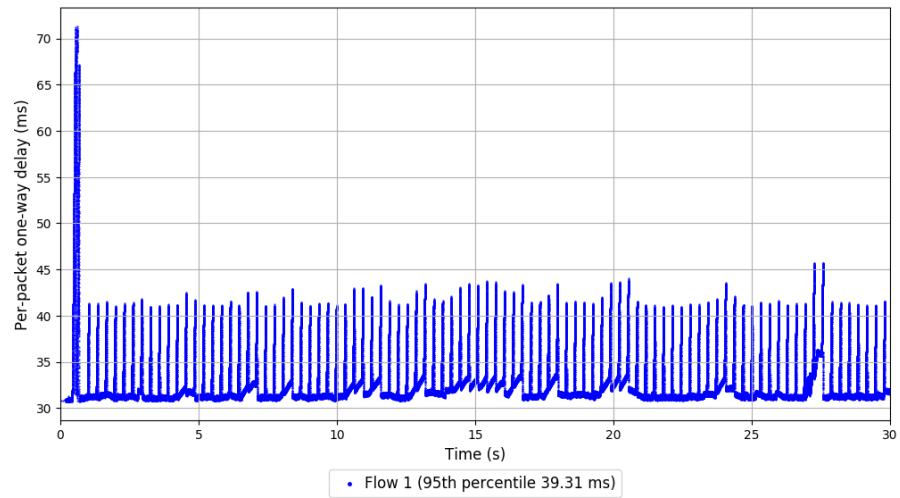
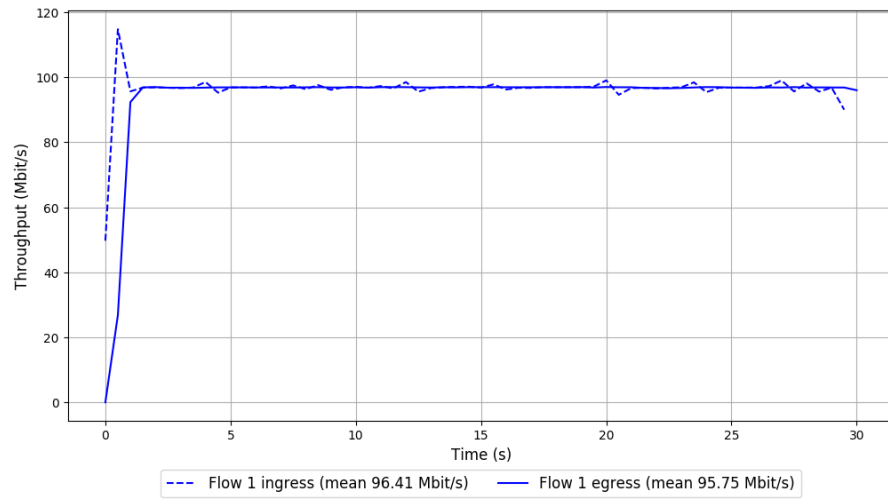


Run 4: Statistics of FillP

Start at: 2019-03-08 22:56:35  
End at: 2019-03-08 22:57:05  
Local clock offset: -0.172 ms  
Remote clock offset: -1.111 ms

# Below is generated by plot.py at 2019-03-08 23:29:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 39.306 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 39.306 ms  
Loss rate: 0.68%

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

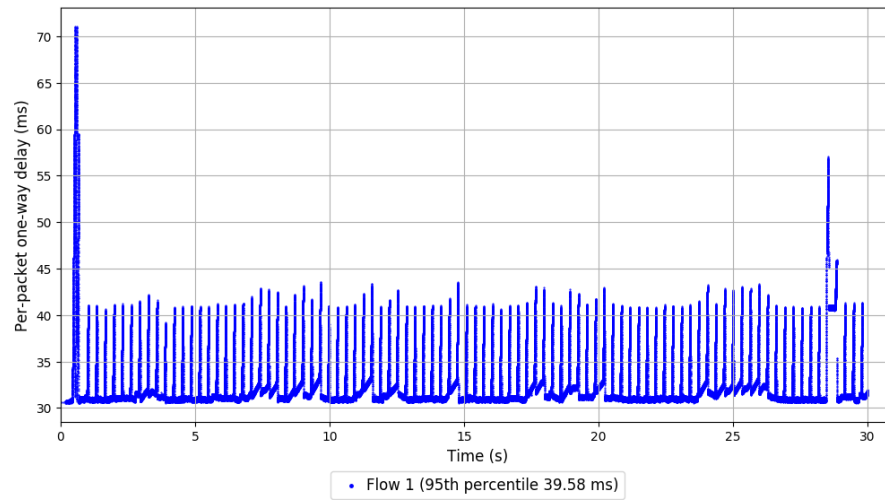
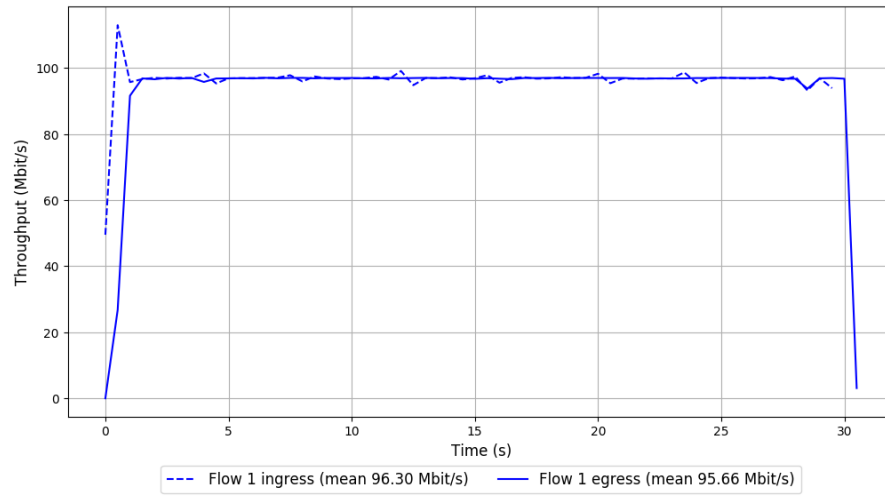


Run 5: Statistics of FillP

Start at: 2019-03-08 23:21:58  
End at: 2019-03-08 23:22:28  
Local clock offset: 1.294 ms  
Remote clock offset: -1.126 ms

# Below is generated by plot.py at 2019-03-08 23:29:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.66 Mbit/s  
95th percentile per-packet one-way delay: 39.575 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 95.66 Mbit/s  
95th percentile per-packet one-way delay: 39.575 ms  
Loss rate: 0.66%

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





Run 1: Statistics of FillP-Sheep

Start at: 2019-03-08 21:30:16

End at: 2019-03-08 21:30:46

Local clock offset: -0.38 ms

Remote clock offset: -3.128 ms

# Below is generated by plot.py at 2019-03-08 23:29:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 37.205 ms

Loss rate: 0.61%

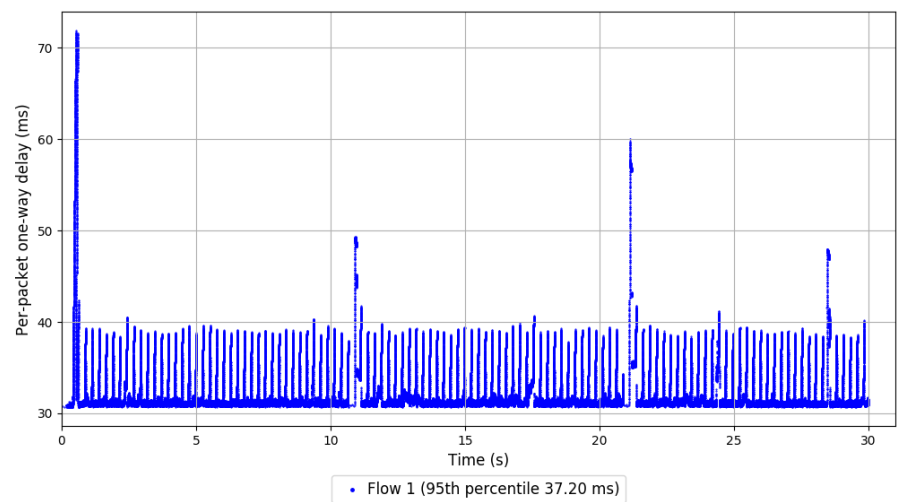
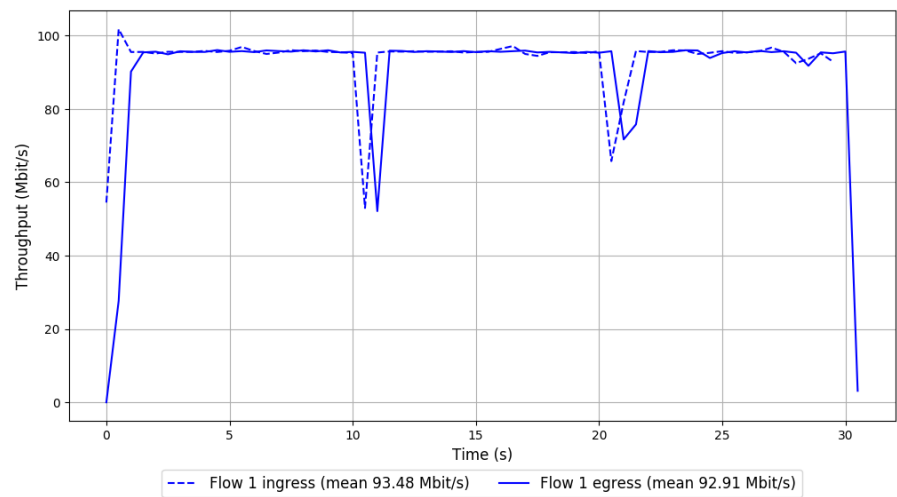
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 37.205 ms

Loss rate: 0.61%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-08 21:54:41

End at: 2019-03-08 21:55:11

Local clock offset: -2.171 ms

Remote clock offset: -2.37 ms

# Below is generated by plot.py at 2019-03-08 23:29:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 36.726 ms

Loss rate: 0.60%

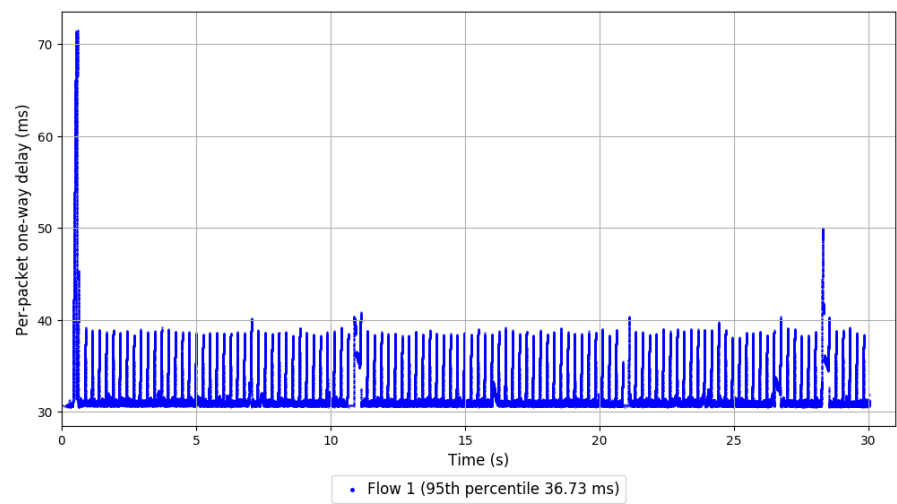
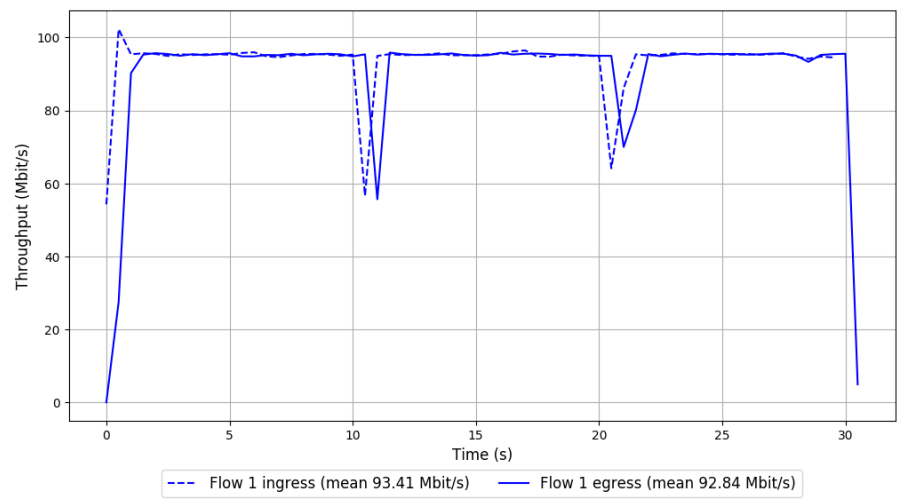
-- Flow 1:

Average throughput: 92.84 Mbit/s

95th percentile per-packet one-way delay: 36.726 ms

Loss rate: 0.60%

Run 2: Report of FillP-Sheep — Data Link

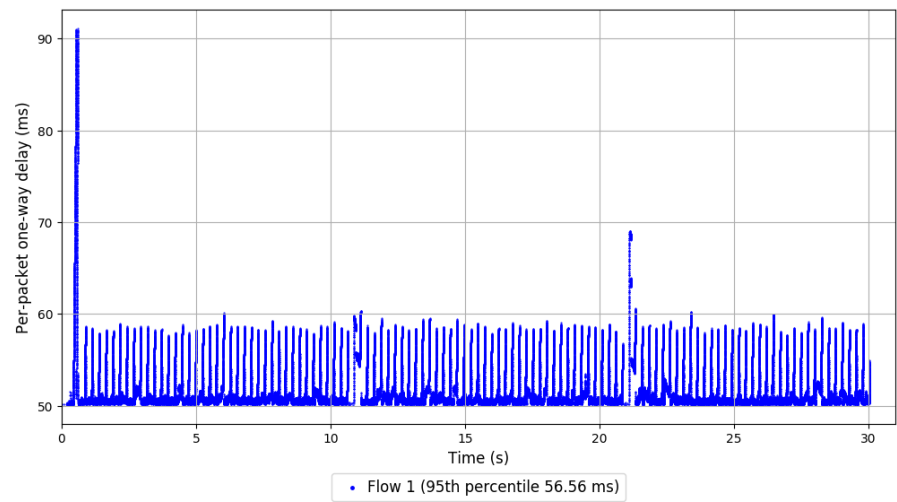
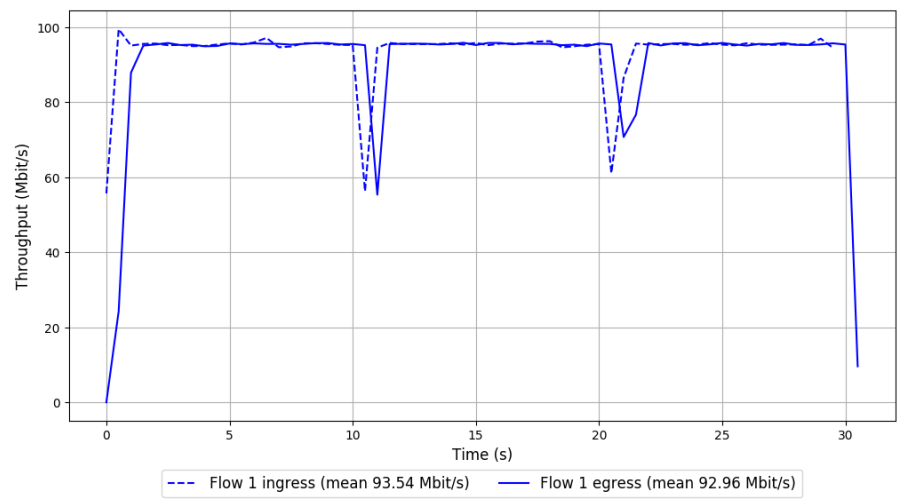


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-08 22:19:41  
End at: 2019-03-08 22:20:11  
Local clock offset: -3.722 ms  
Remote clock offset: 17.791 ms

# Below is generated by plot.py at 2019-03-08 23:30:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.96 Mbit/s  
95th percentile per-packet one-way delay: 56.561 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 92.96 Mbit/s  
95th percentile per-packet one-way delay: 56.561 ms  
Loss rate: 0.61%

Run 3: Report of FillP-Sheep — Data Link

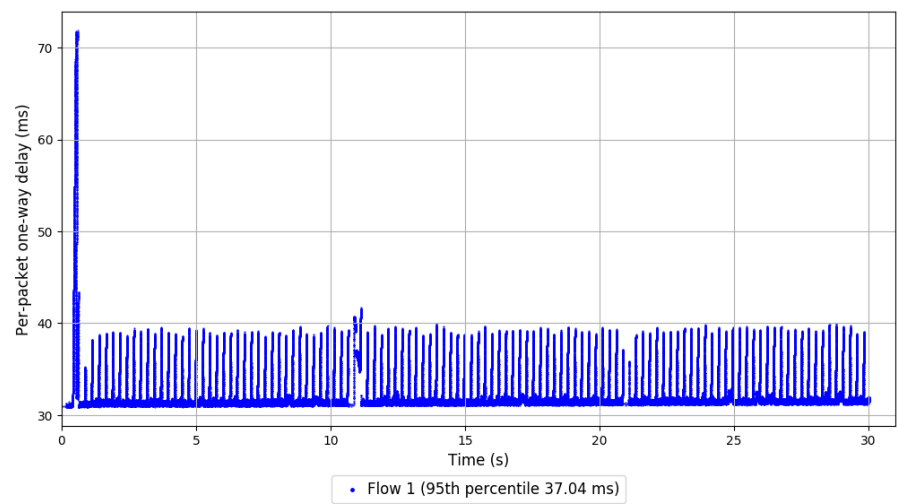
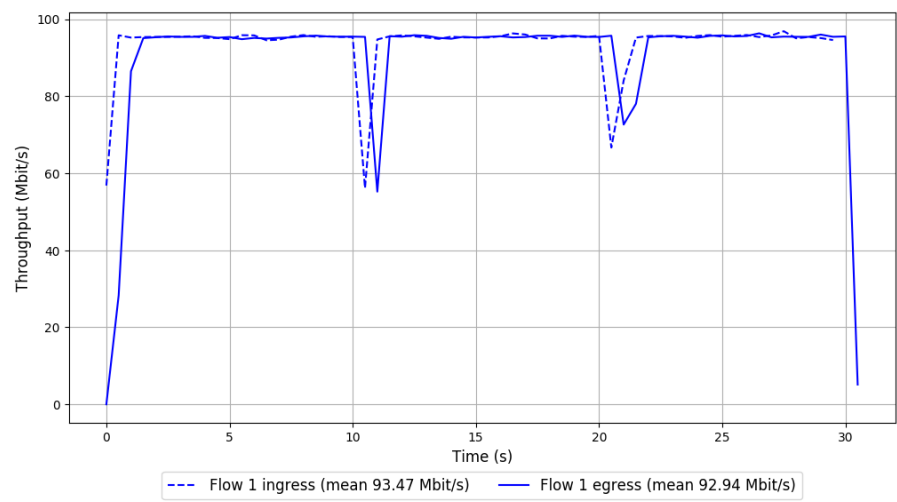


Run 4: Statistics of FillP-Sheep

Start at: 2019-03-08 22:45:50  
End at: 2019-03-08 22:46:20  
Local clock offset: -4.104 ms  
Remote clock offset: -1.278 ms

# Below is generated by plot.py at 2019-03-08 23:30:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.94 Mbit/s  
95th percentile per-packet one-way delay: 37.042 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 92.94 Mbit/s  
95th percentile per-packet one-way delay: 37.042 ms  
Loss rate: 0.57%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-03-08 23:11:30

End at: 2019-03-08 23:12:00

Local clock offset: 1.689 ms

Remote clock offset: 18.867 ms

# Below is generated by plot.py at 2019-03-08 23:30:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 56.656 ms

Loss rate: 0.58%

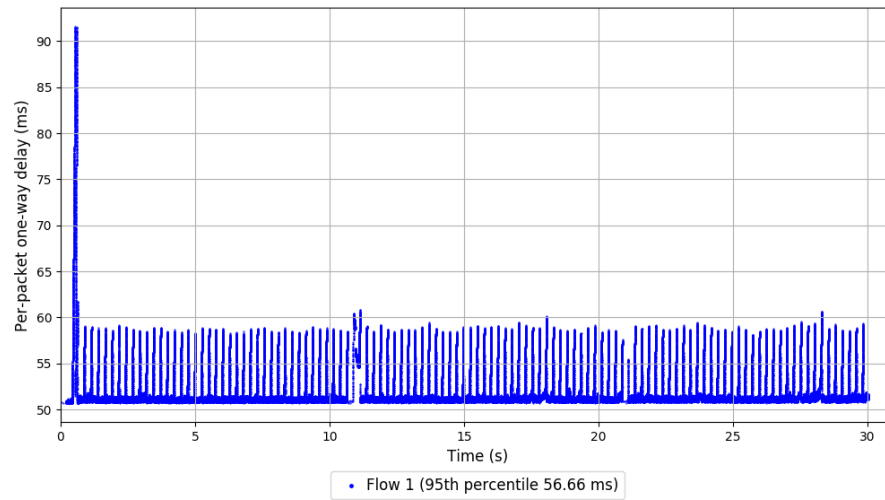
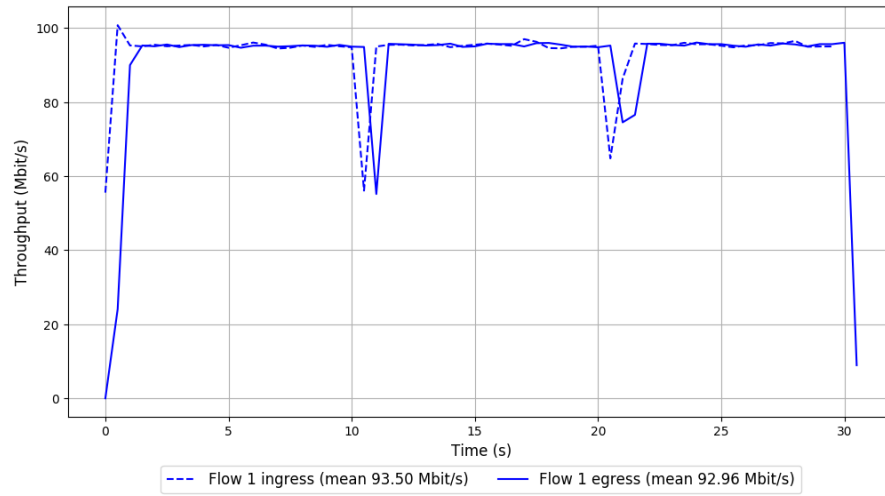
-- Flow 1:

Average throughput: 92.96 Mbit/s

95th percentile per-packet one-way delay: 56.656 ms

Loss rate: 0.58%

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

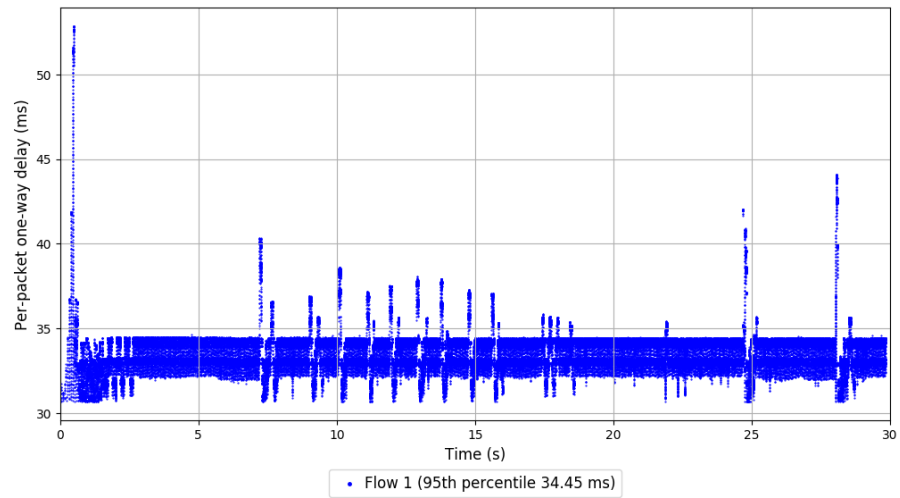
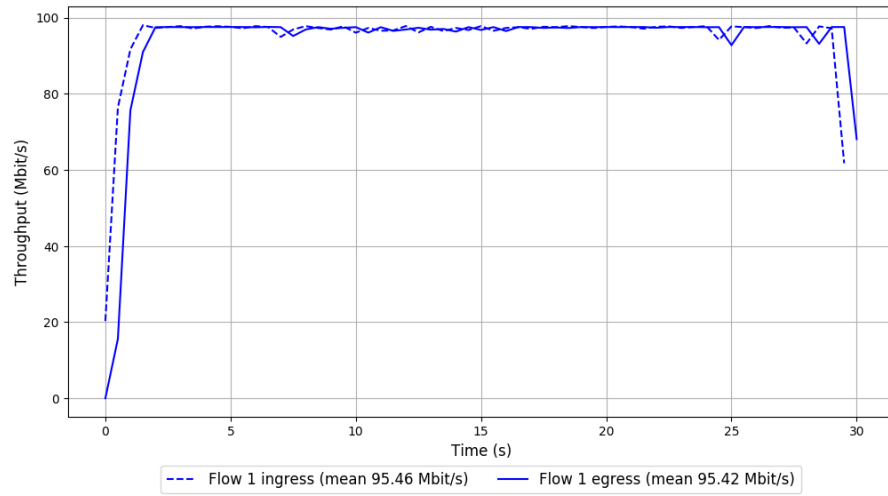


Run 1: Statistics of Indigo

Start at: 2019-03-08 21:37:06  
End at: 2019-03-08 21:37:36  
Local clock offset: -0.502 ms  
Remote clock offset: -2.959 ms

# Below is generated by plot.py at 2019-03-08 23:30:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.42 Mbit/s  
95th percentile per-packet one-way delay: 34.448 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 95.42 Mbit/s  
95th percentile per-packet one-way delay: 34.448 ms  
Loss rate: 0.03%

## Run 1: Report of Indigo — Data Link

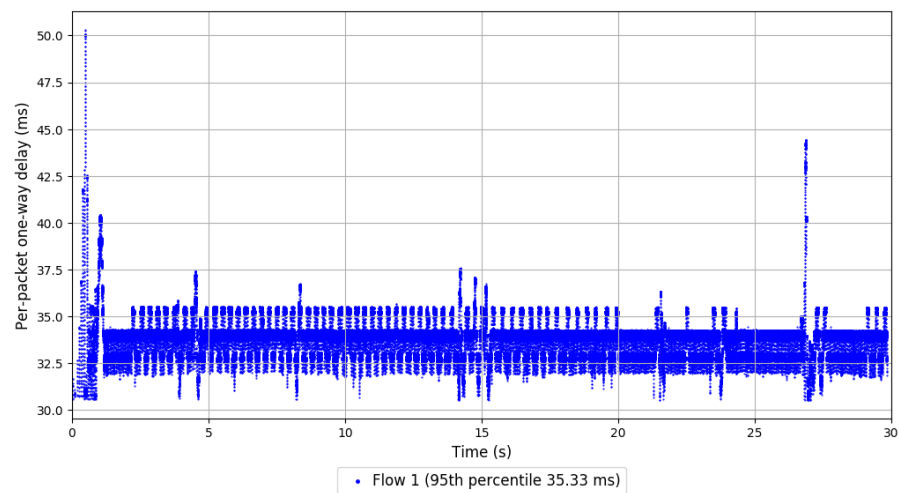
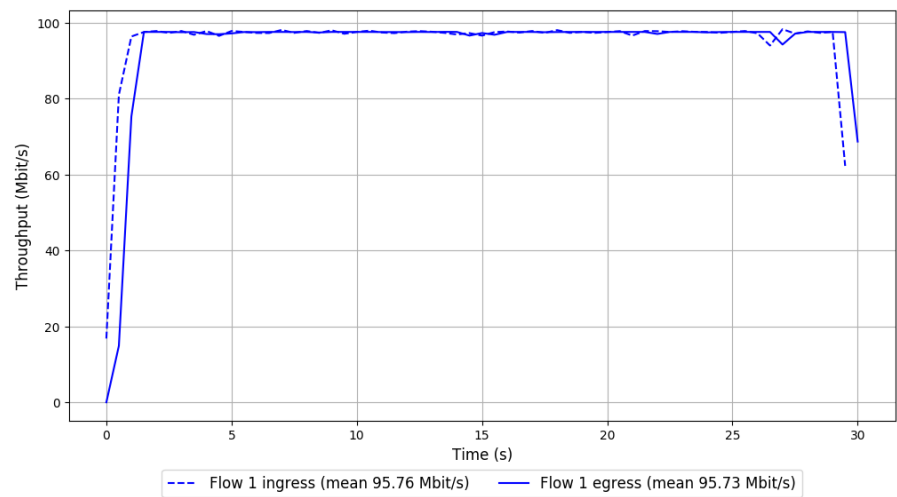


Run 2: Statistics of Indigo

Start at: 2019-03-08 22:01:32  
End at: 2019-03-08 22:02:02  
Local clock offset: -2.735 ms  
Remote clock offset: -2.284 ms

# Below is generated by plot.py at 2019-03-08 23:30:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.73 Mbit/s  
95th percentile per-packet one-way delay: 35.325 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 95.73 Mbit/s  
95th percentile per-packet one-way delay: 35.325 ms  
Loss rate: 0.02%

Run 2: Report of Indigo — Data Link

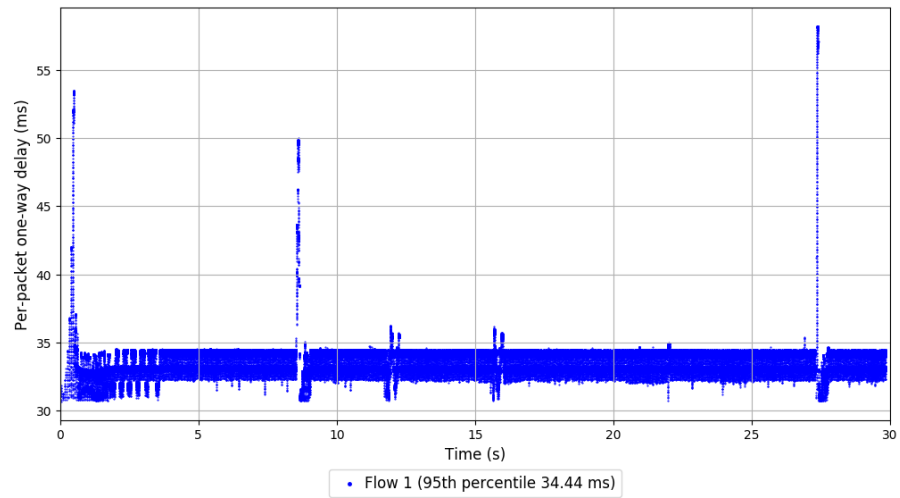
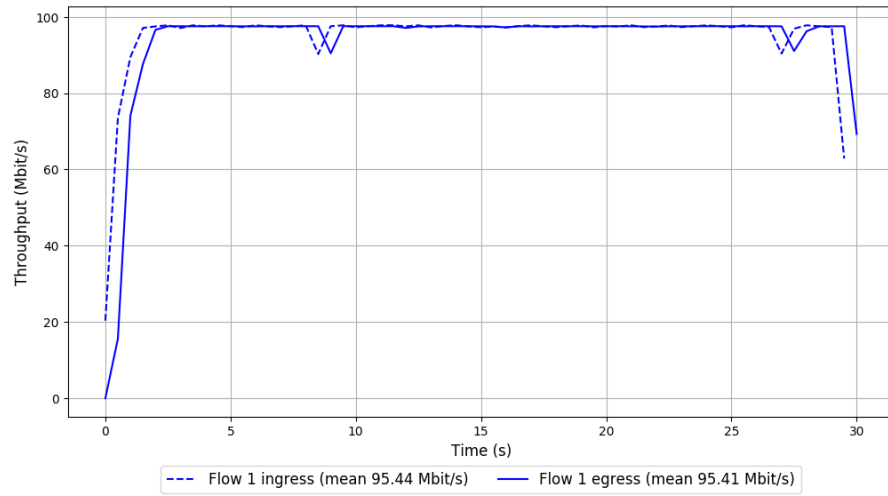


Run 3: Statistics of Indigo

Start at: 2019-03-08 22:26:49  
End at: 2019-03-08 22:27:19  
Local clock offset: -4.068 ms  
Remote clock offset: -1.557 ms

# Below is generated by plot.py at 2019-03-08 23:30:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.41 Mbit/s  
95th percentile per-packet one-way delay: 34.441 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 95.41 Mbit/s  
95th percentile per-packet one-way delay: 34.441 ms  
Loss rate: 0.02%

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



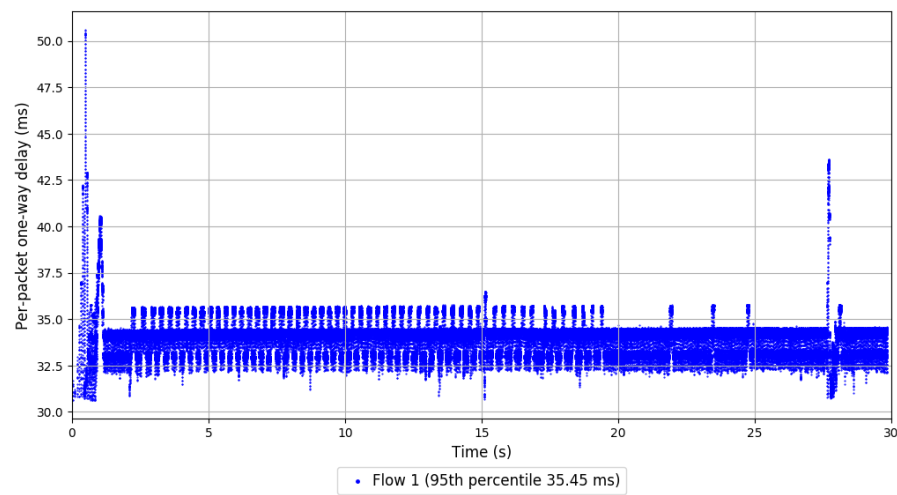
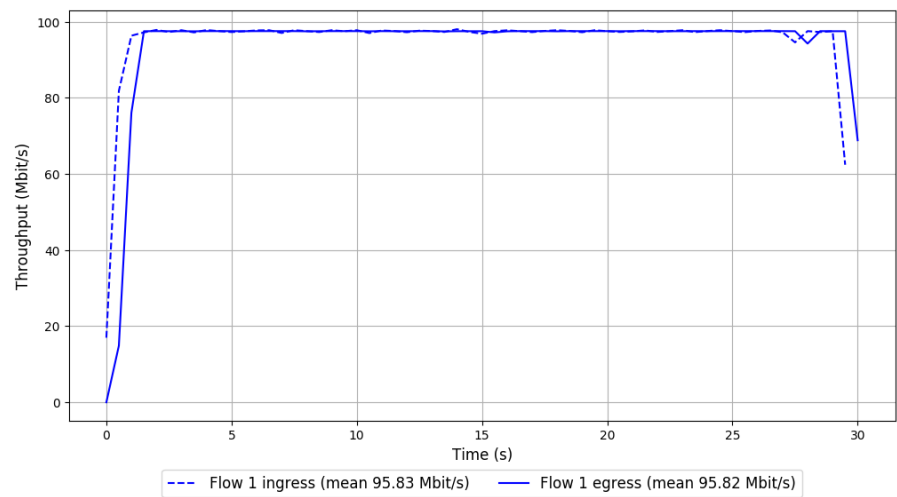


Run 4: Statistics of Indigo

Start at: 2019-03-08 22:52:52  
End at: 2019-03-08 22:53:22  
Local clock offset: -1.039 ms  
Remote clock offset: -1.318 ms

# Below is generated by plot.py at 2019-03-08 23:30:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 35.451 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 35.451 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

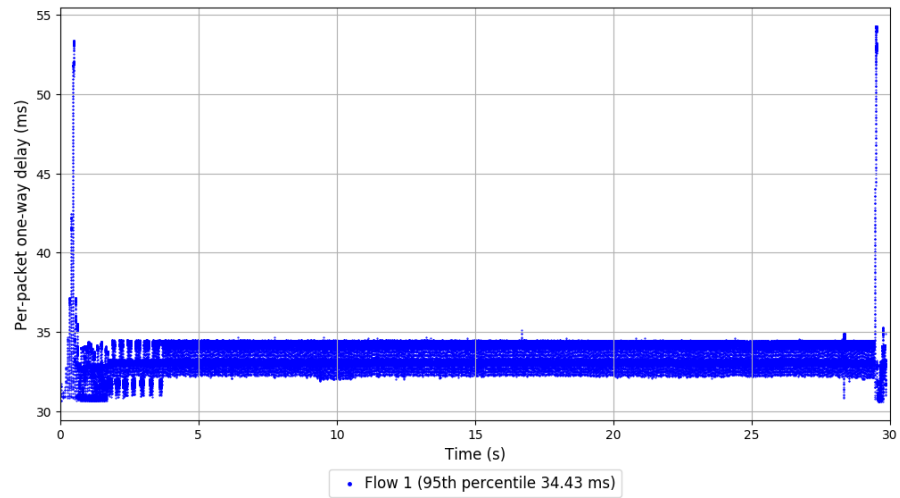
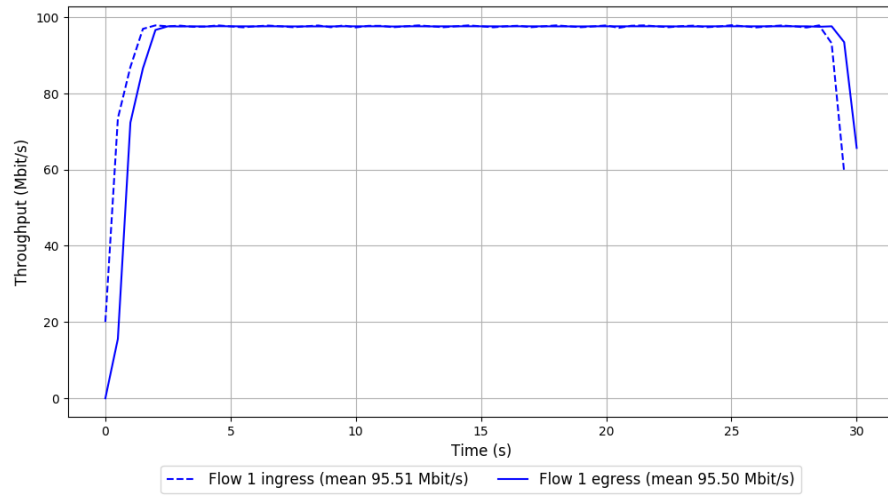


Run 5: Statistics of Indigo

Start at: 2019-03-08 23:18:21  
End at: 2019-03-08 23:18:51  
Local clock offset: 1.514 ms  
Remote clock offset: -1.153 ms

# Below is generated by plot.py at 2019-03-08 23:31:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.50 Mbit/s  
95th percentile per-packet one-way delay: 34.428 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 95.50 Mbit/s  
95th percentile per-packet one-way delay: 34.428 ms  
Loss rate: 0.00%

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

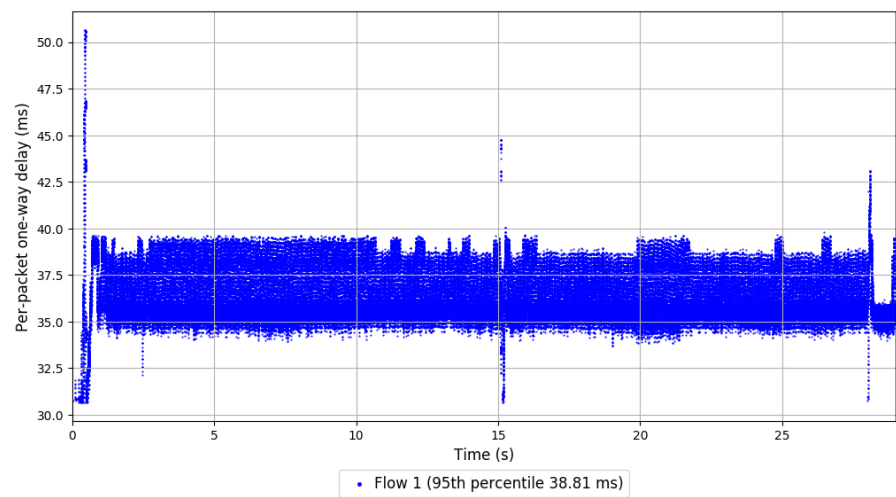
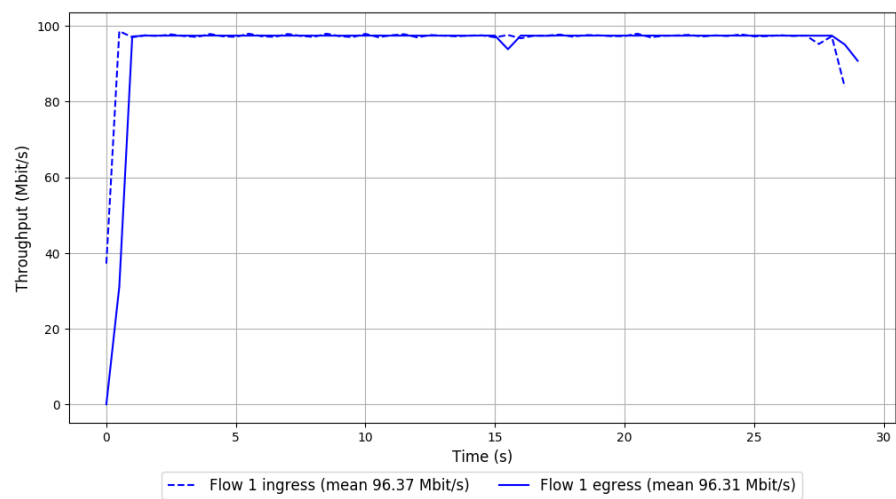


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-08 21:26:45  
End at: 2019-03-08 21:27:15  
Local clock offset: -0.337 ms  
Remote clock offset: -3.253 ms

# Below is generated by plot.py at 2019-03-08 23:31:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.31 Mbit/s  
95th percentile per-packet one-way delay: 38.810 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 96.31 Mbit/s  
95th percentile per-packet one-way delay: 38.810 ms  
Loss rate: 0.05%

Run 1: Report of Indigo-MusesC3 — Data Link

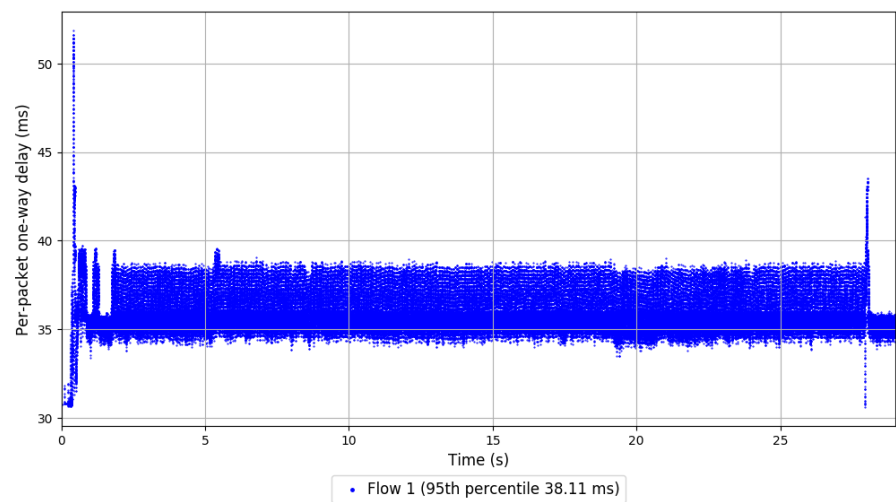
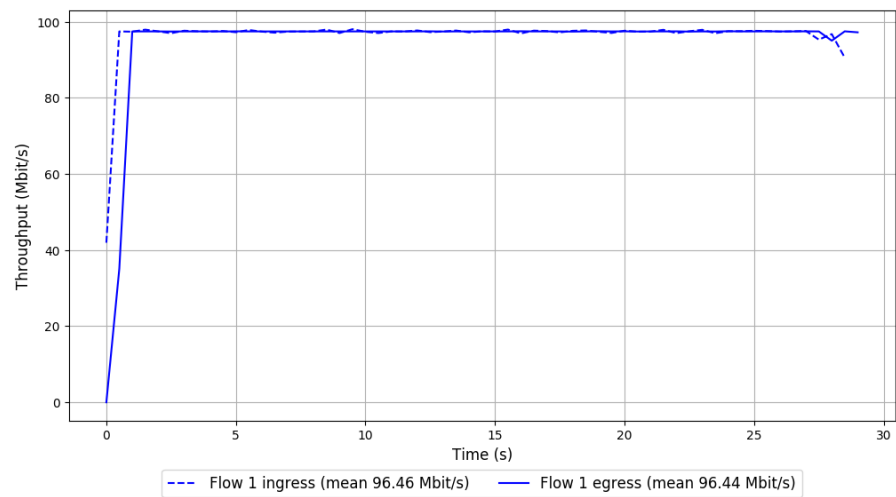


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-08 21:51:10  
End at: 2019-03-08 21:51:40  
Local clock offset: -1.757 ms  
Remote clock offset: -2.518 ms

# Below is generated by plot.py at 2019-03-08 23:31:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.44 Mbit/s  
95th percentile per-packet one-way delay: 38.113 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.44 Mbit/s  
95th percentile per-packet one-way delay: 38.113 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



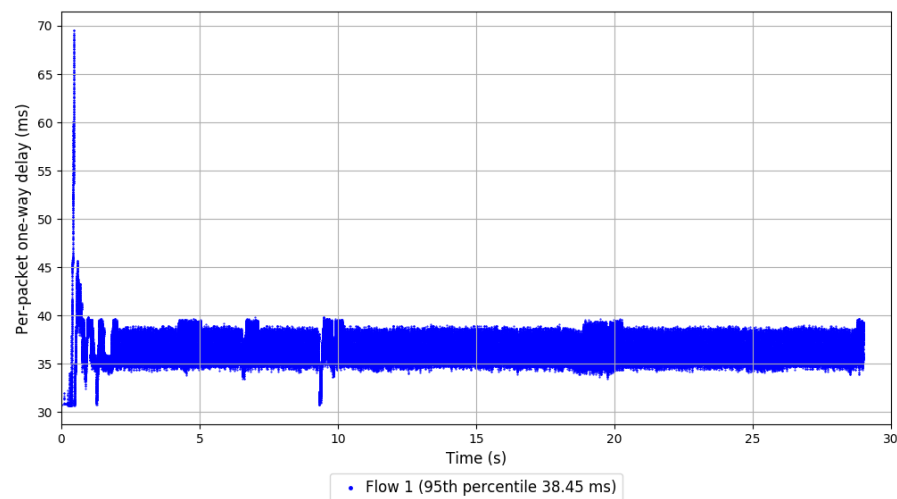
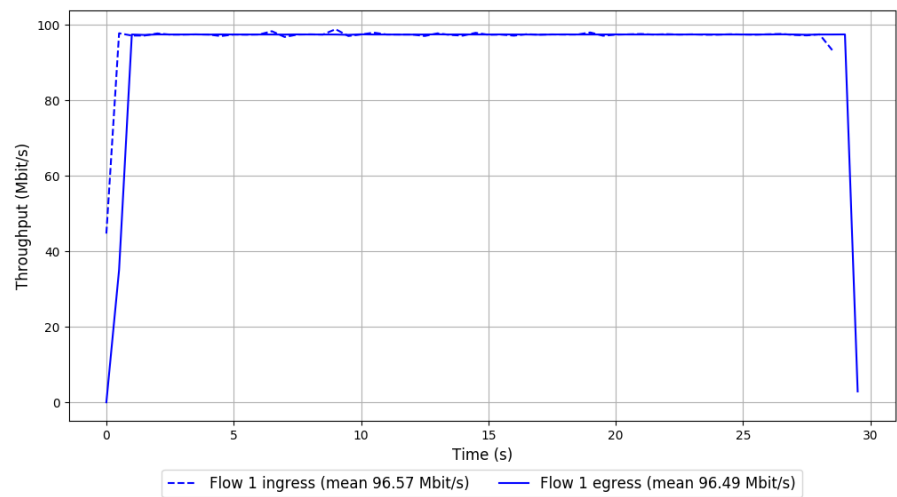


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-08 22:16:01  
End at: 2019-03-08 22:16:31  
Local clock offset: -3.524 ms  
Remote clock offset: -1.844 ms

# Below is generated by plot.py at 2019-03-08 23:31:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.49 Mbit/s  
95th percentile per-packet one-way delay: 38.450 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 96.49 Mbit/s  
95th percentile per-packet one-way delay: 38.450 ms  
Loss rate: 0.07%

Run 3: Report of Indigo-MusesC3 — Data Link

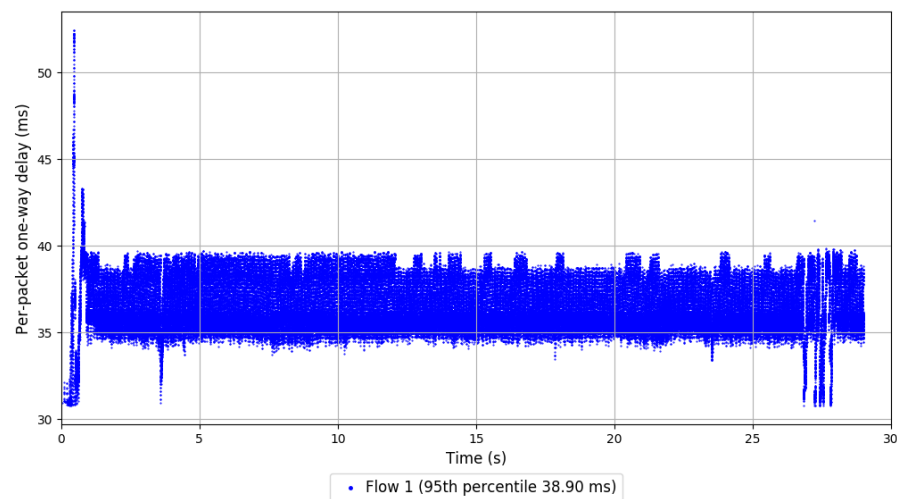
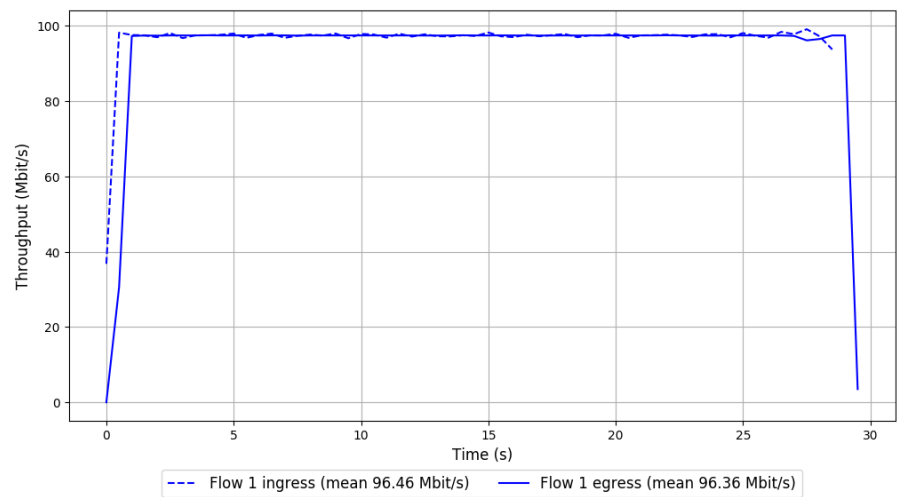


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-08 22:41:56  
End at: 2019-03-08 22:42:26  
Local clock offset: -4.817 ms  
Remote clock offset: -1.225 ms

# Below is generated by plot.py at 2019-03-08 23:31:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.36 Mbit/s  
95th percentile per-packet one-way delay: 38.900 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 96.36 Mbit/s  
95th percentile per-packet one-way delay: 38.900 ms  
Loss rate: 0.08%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-08 23:07:52

End at: 2019-03-08 23:08:22

Local clock offset: 1.354 ms

Remote clock offset: -1.115 ms

# Below is generated by plot.py at 2019-03-08 23:31:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 38.618 ms

Loss rate: 0.00%

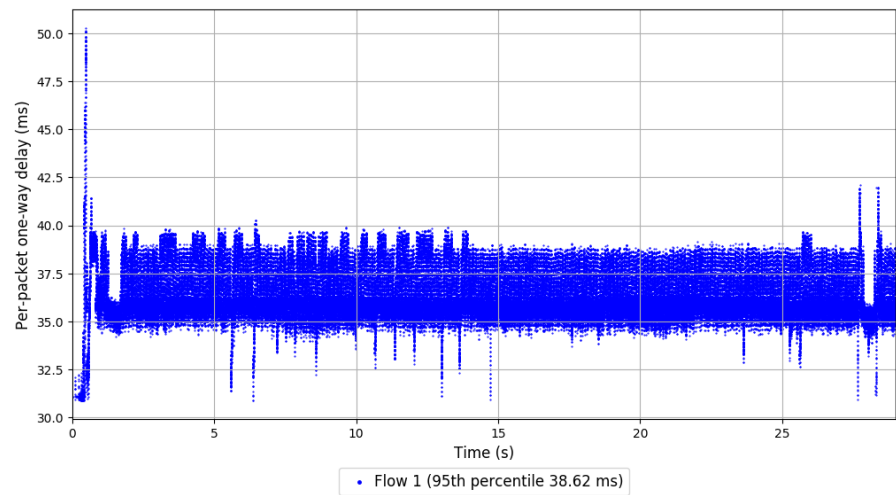
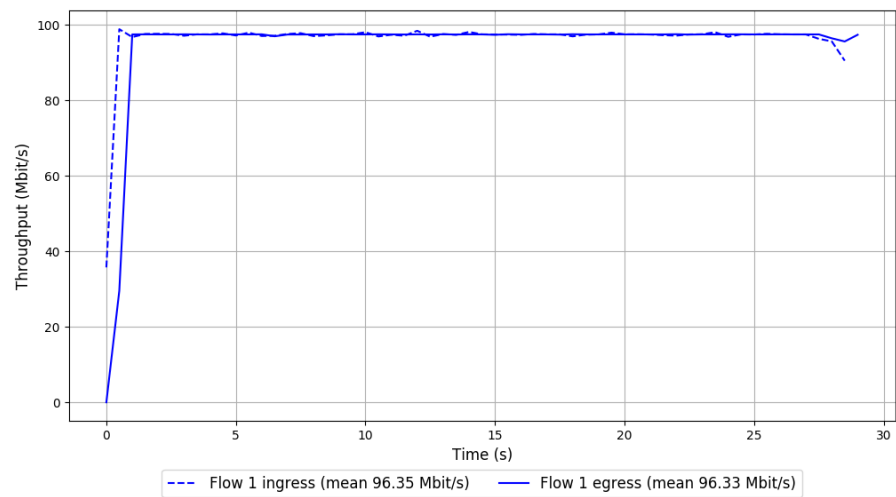
-- Flow 1:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 38.618 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

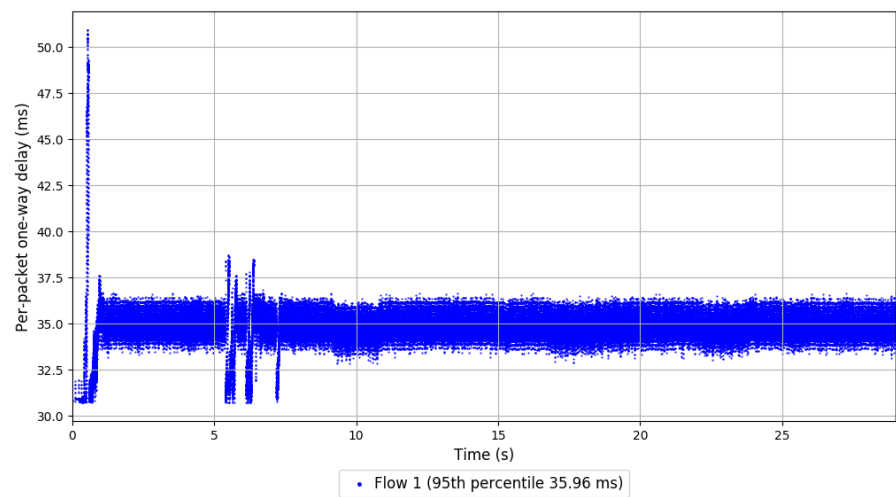
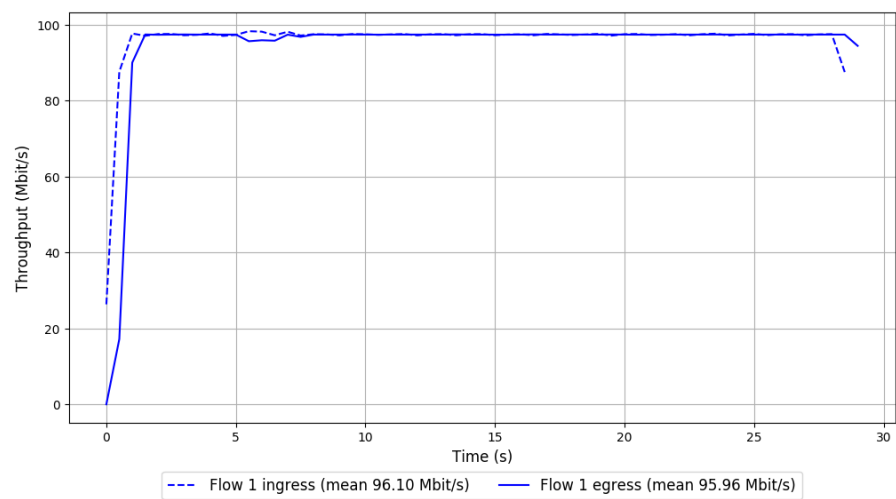


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-08 21:24:24  
End at: 2019-03-08 21:24:54  
Local clock offset: -0.258 ms  
Remote clock offset: -3.236 ms

# Below is generated by plot.py at 2019-03-08 23:31:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.96 Mbit/s  
95th percentile per-packet one-way delay: 35.959 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 95.96 Mbit/s  
95th percentile per-packet one-way delay: 35.959 ms  
Loss rate: 0.13%

Run 1: Report of Indigo-MusesC5 — Data Link



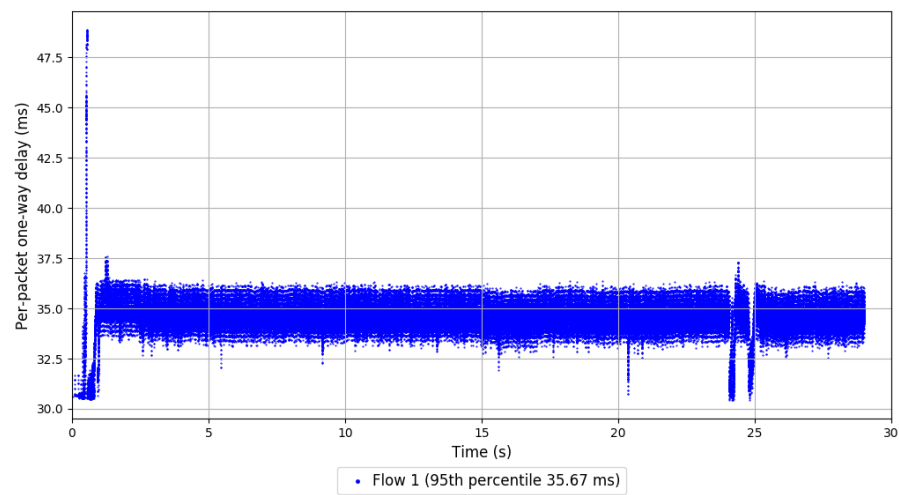
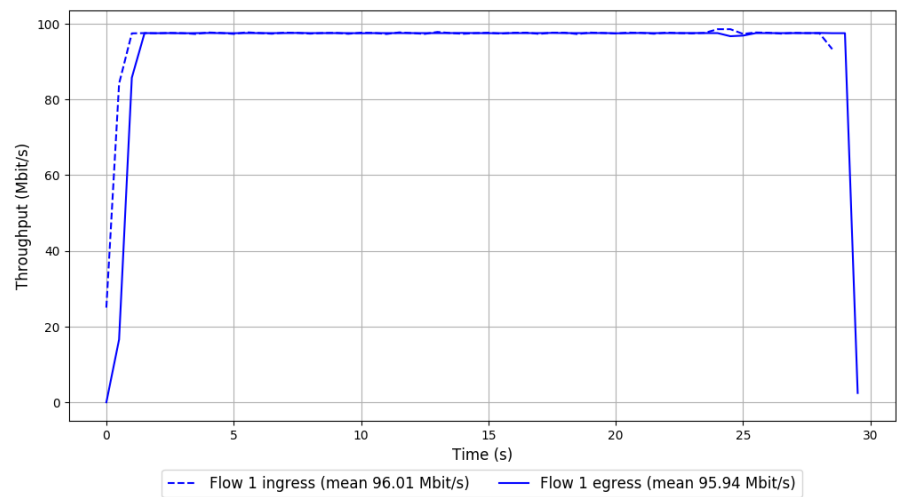


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-08 21:48:44  
End at: 2019-03-08 21:49:14  
Local clock offset: -1.395 ms  
Remote clock offset: -2.736 ms

# Below is generated by plot.py at 2019-03-08 23:31:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.94 Mbit/s  
95th percentile per-packet one-way delay: 35.671 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 95.94 Mbit/s  
95th percentile per-packet one-way delay: 35.671 ms  
Loss rate: 0.06%

Run 2: Report of Indigo-MusesC5 — Data Link

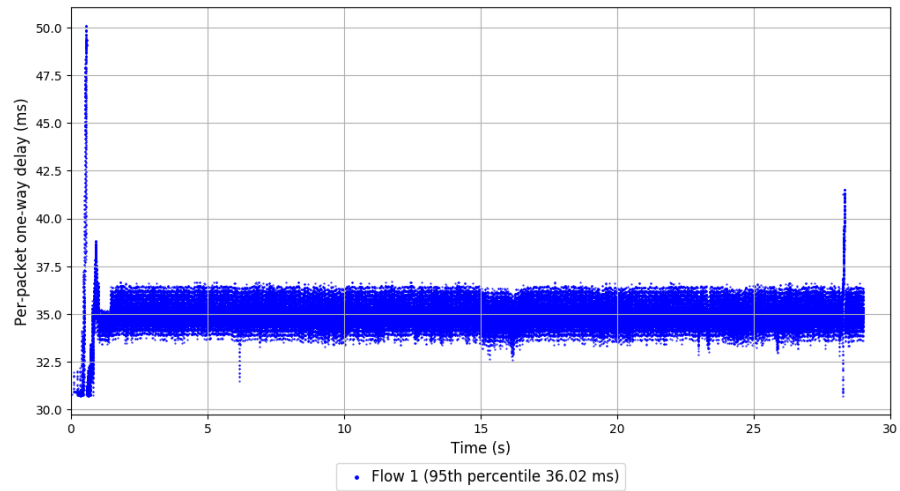
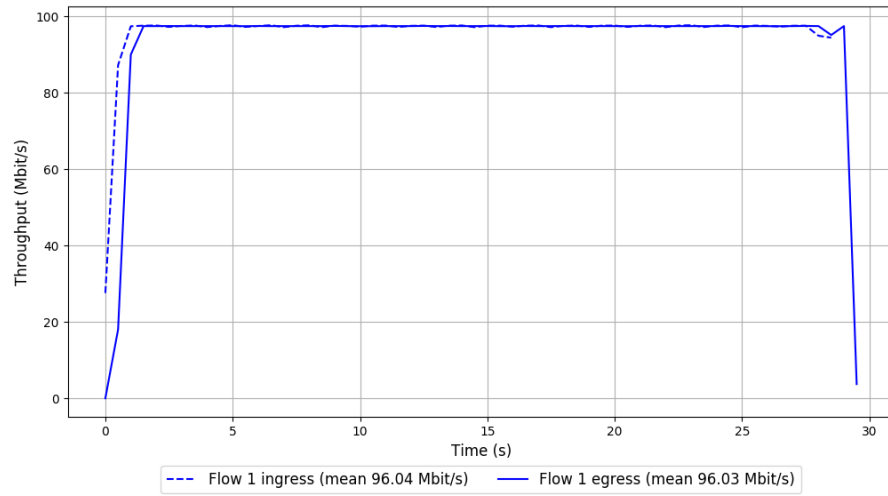


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-08 22:13:34  
End at: 2019-03-08 22:14:04  
Local clock offset: -3.399 ms  
Remote clock offset: -1.863 ms

# Below is generated by plot.py at 2019-03-08 23:32:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.03 Mbit/s  
95th percentile per-packet one-way delay: 36.020 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.03 Mbit/s  
95th percentile per-packet one-way delay: 36.020 ms  
Loss rate: 0.00%

### Run 3: Report of Indigo-MusesC5 — Data Link

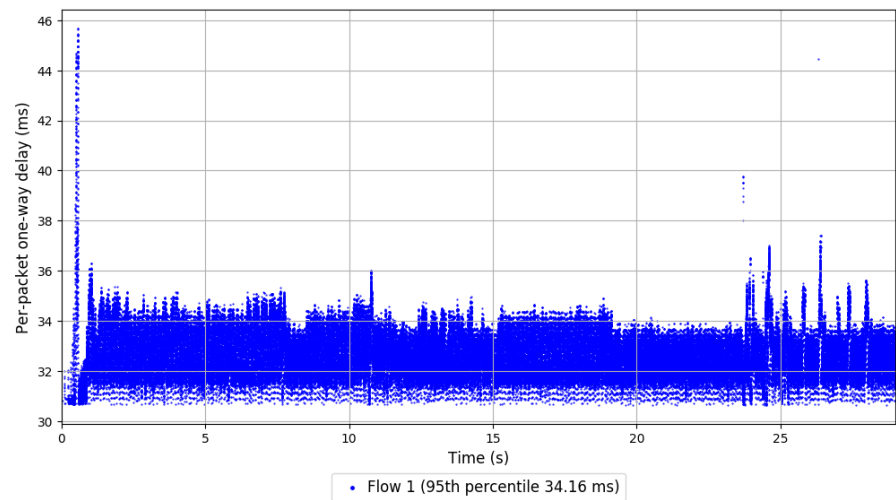
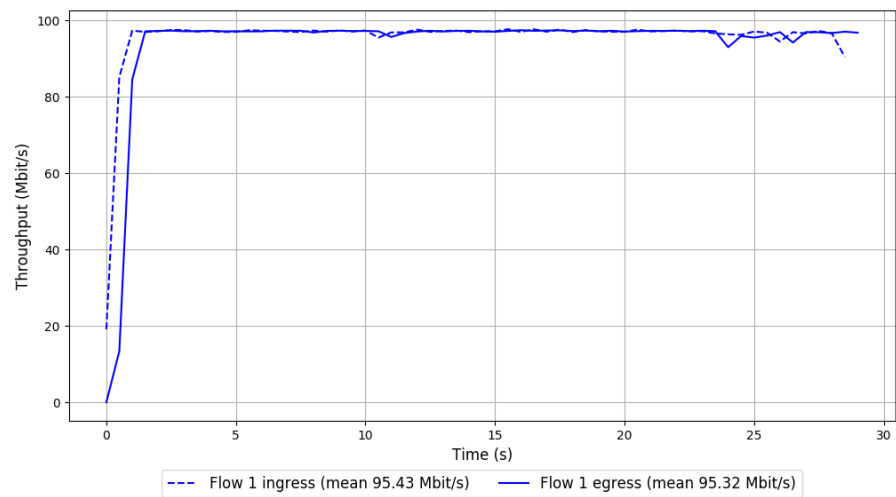


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-08 22:39:13  
End at: 2019-03-08 22:39:43  
Local clock offset: -4.683 ms  
Remote clock offset: -1.304 ms

# Below is generated by plot.py at 2019-03-08 23:32:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.32 Mbit/s  
95th percentile per-packet one-way delay: 34.161 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 95.32 Mbit/s  
95th percentile per-packet one-way delay: 34.161 ms  
Loss rate: 0.10%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-08 23:05:21

End at: 2019-03-08 23:05:51

Local clock offset: 1.123 ms

Remote clock offset: -1.15 ms

# Below is generated by plot.py at 2019-03-08 23:32:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 36.086 ms

Loss rate: 0.00%

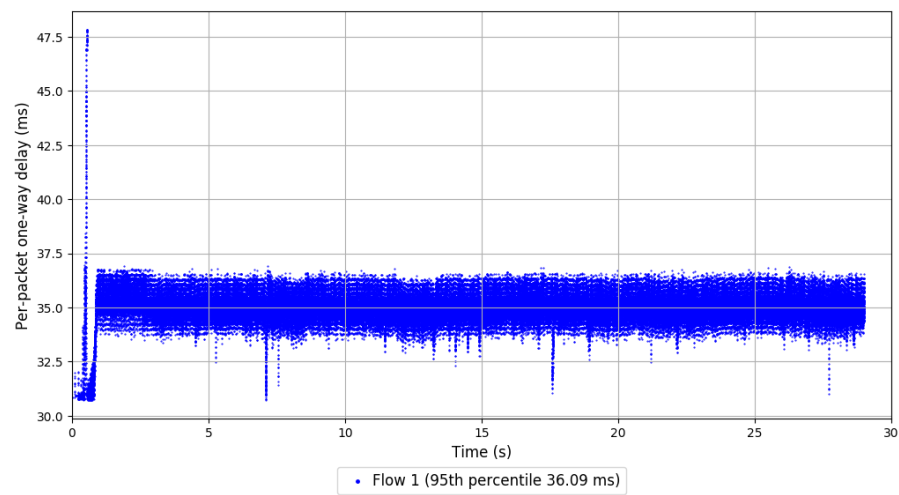
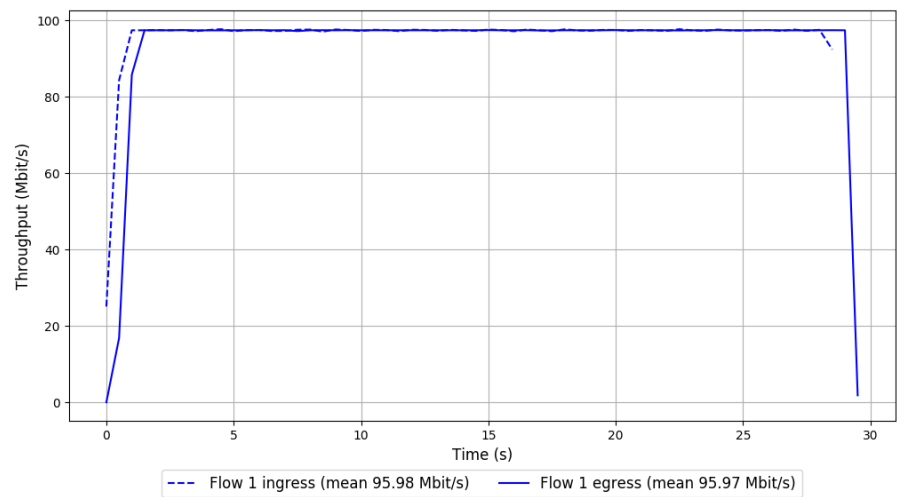
-- Flow 1:

Average throughput: 95.97 Mbit/s

95th percentile per-packet one-way delay: 36.086 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-08 21:41:46

End at: 2019-03-08 21:42:16

Local clock offset: -0.555 ms

Remote clock offset: -2.816 ms

# Below is generated by plot.py at 2019-03-08 23:32:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 35.650 ms

Loss rate: 0.08%

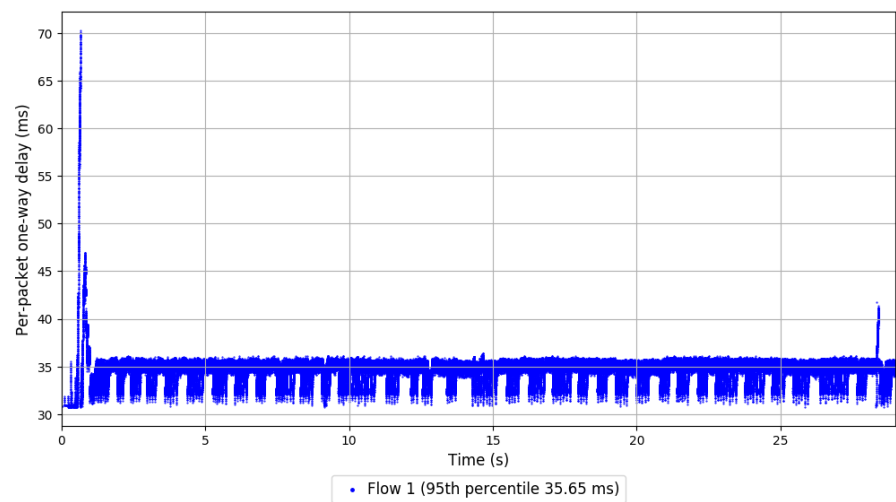
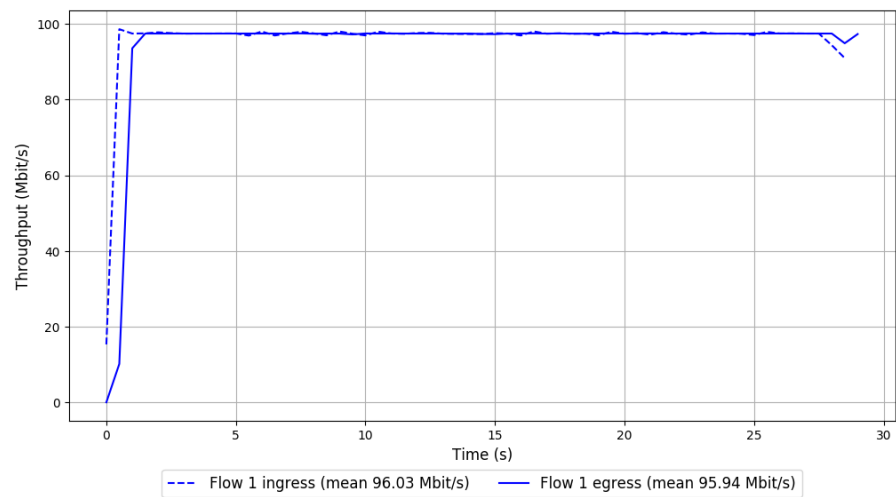
-- Flow 1:

Average throughput: 95.94 Mbit/s

95th percentile per-packet one-way delay: 35.650 ms

Loss rate: 0.08%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-08 22:06:10

End at: 2019-03-08 22:06:40

Local clock offset: -3.01 ms

Remote clock offset: -2.044 ms

# Below is generated by plot.py at 2019-03-08 23:32:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 34.786 ms

Loss rate: 0.00%

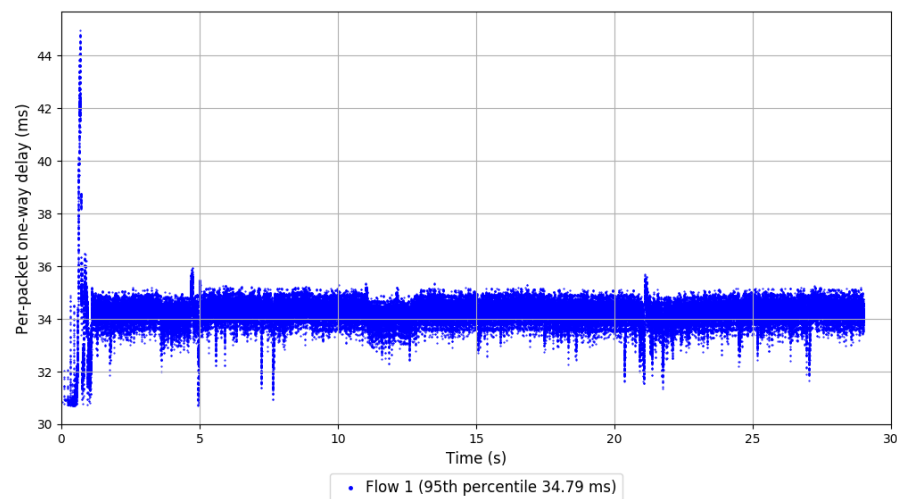
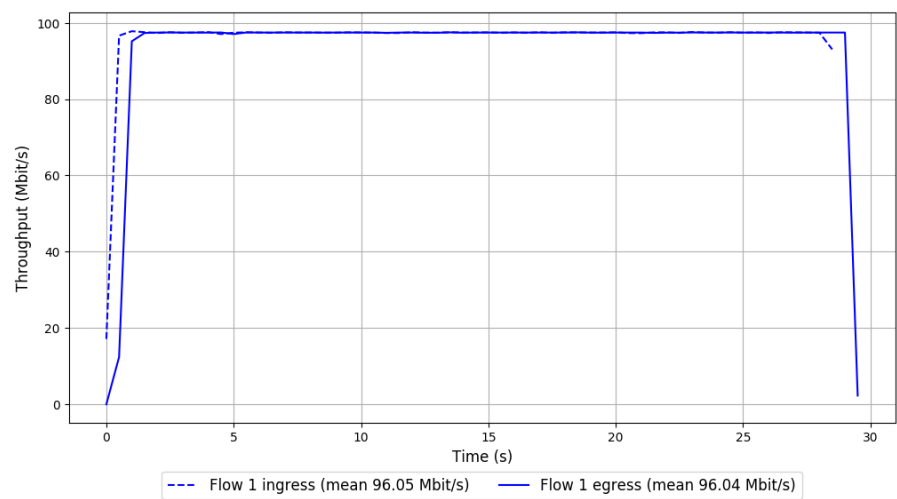
-- Flow 1:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 34.786 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-08 22:31:53

End at: 2019-03-08 22:32:23

Local clock offset: -4.324 ms

Remote clock offset: -1.411 ms

# Below is generated by plot.py at 2019-03-08 23:32:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 34.982 ms

Loss rate: 0.08%

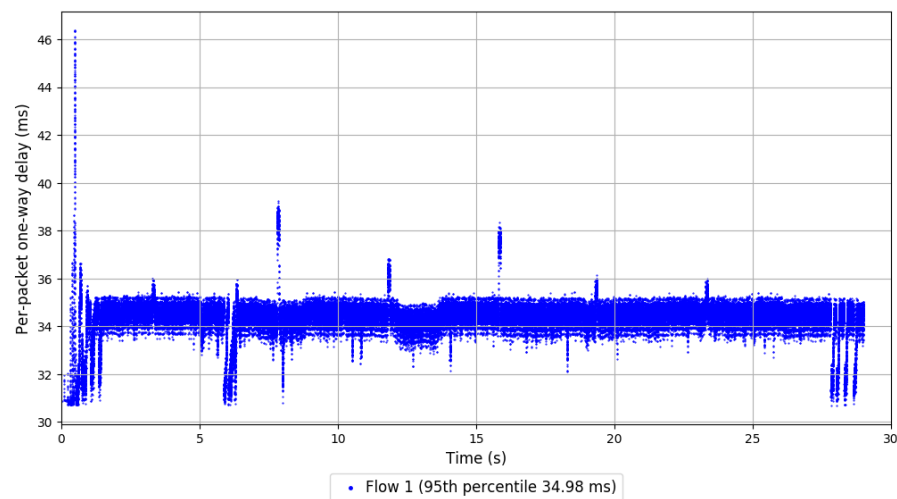
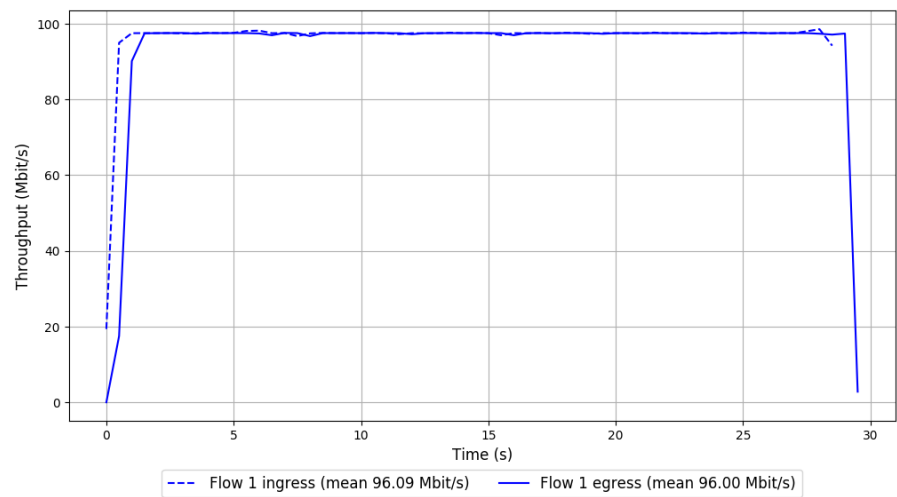
-- Flow 1:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 34.982 ms

Loss rate: 0.08%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-08 22:57:52

End at: 2019-03-08 22:58:22

Local clock offset: 0.074 ms

Remote clock offset: -1.105 ms

# Below is generated by plot.py at 2019-03-08 23:32:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 35.146 ms

Loss rate: 0.03%

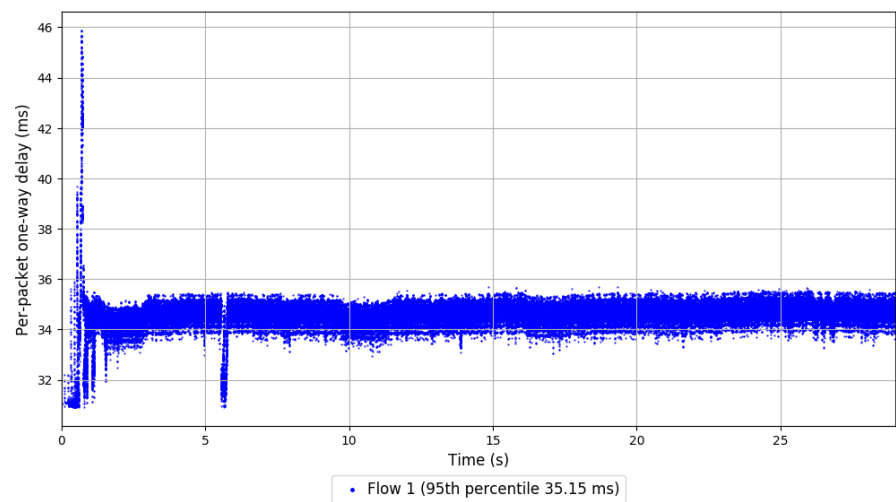
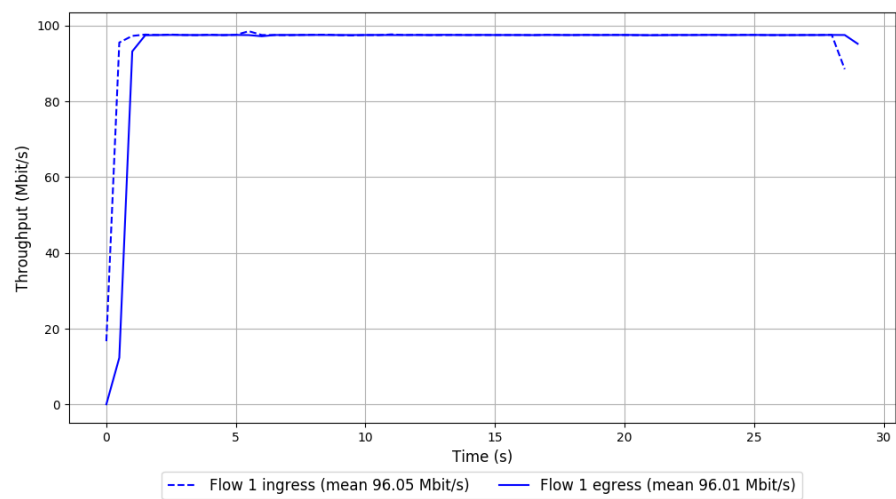
-- Flow 1:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 35.146 ms

Loss rate: 0.03%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-08 23:23:10

End at: 2019-03-08 23:23:40

Local clock offset: 1.262 ms

Remote clock offset: -1.108 ms

# Below is generated by plot.py at 2019-03-08 23:32:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 34.971 ms

Loss rate: 0.00%

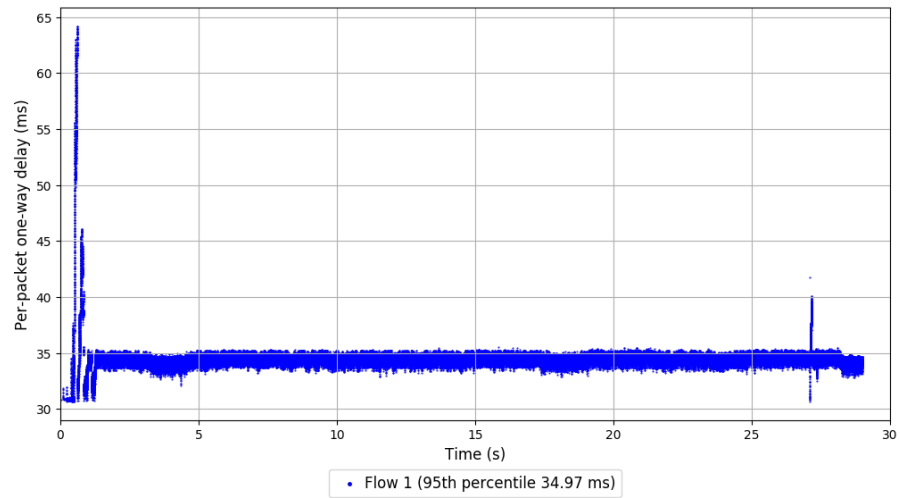
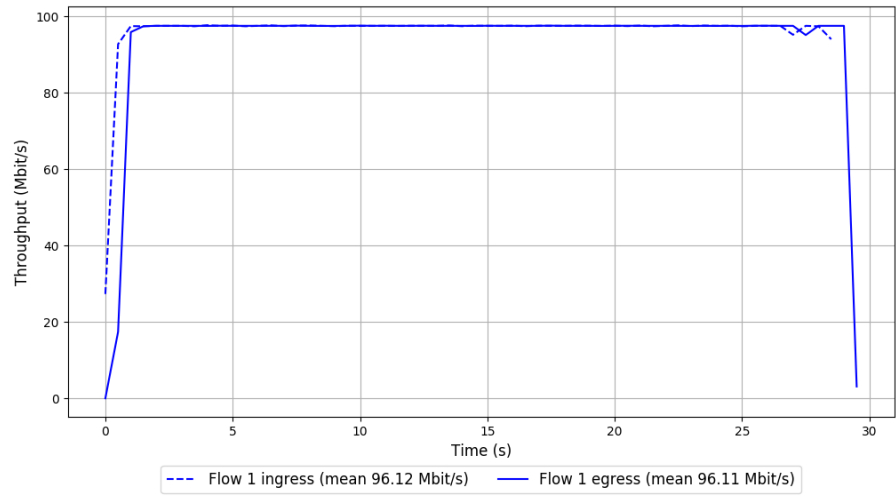
-- Flow 1:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 34.971 ms

Loss rate: 0.00%

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

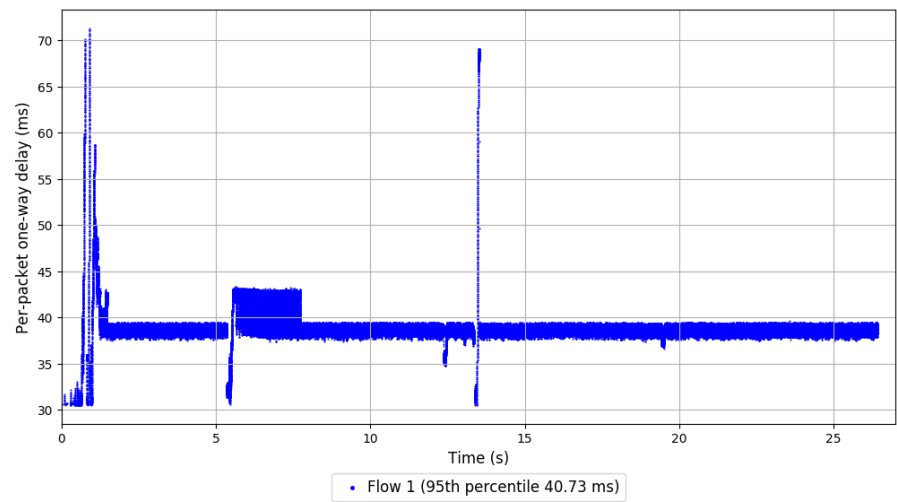
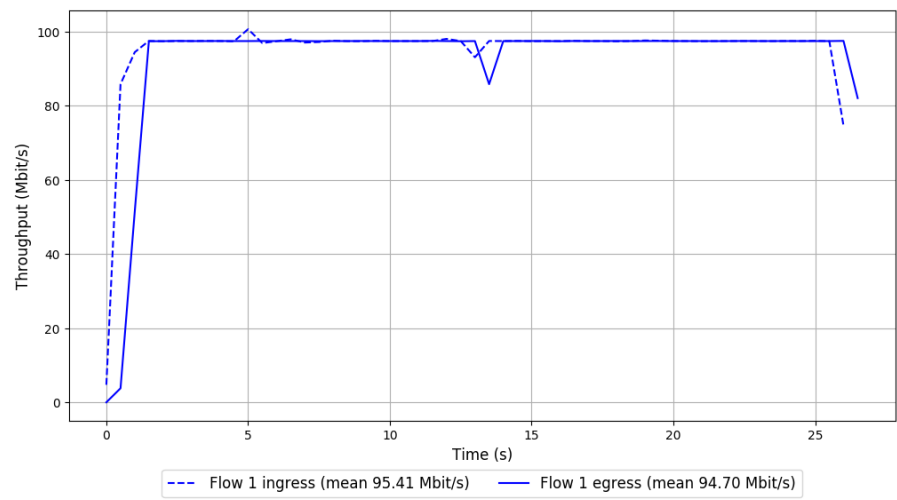


Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-08 21:19:48  
End at: 2019-03-08 21:20:18  
Local clock offset: -0.212 ms  
Remote clock offset: -3.562 ms

# Below is generated by plot.py at 2019-03-08 23:33:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.70 Mbit/s  
95th percentile per-packet one-way delay: 40.725 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 94.70 Mbit/s  
95th percentile per-packet one-way delay: 40.725 ms  
Loss rate: 0.71%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-08 21:44:05

End at: 2019-03-08 21:44:35

Local clock offset: -0.59 ms

Remote clock offset: -2.688 ms

# Below is generated by plot.py at 2019-03-08 23:33:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 39.381 ms

Loss rate: 1.07%

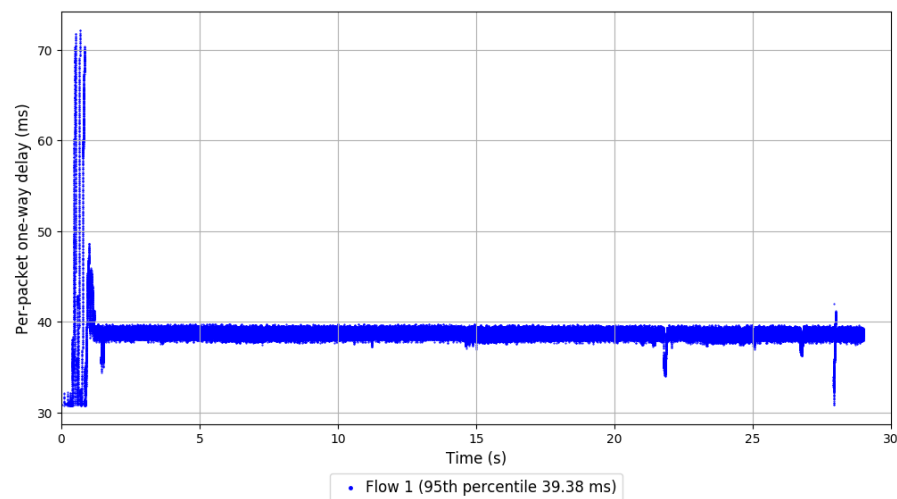
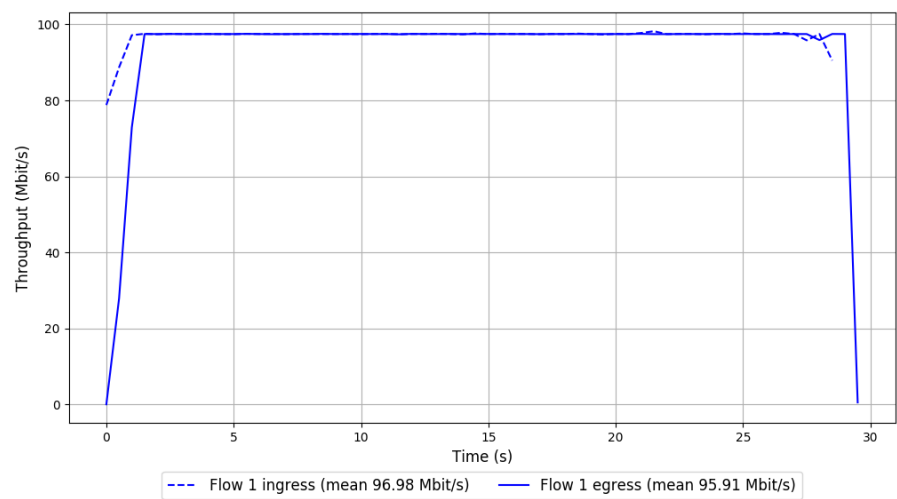
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 39.381 ms

Loss rate: 1.07%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-08 22:08:28

End at: 2019-03-08 22:08:58

Local clock offset: -3.14 ms

Remote clock offset: 17.606 ms

# Below is generated by plot.py at 2019-03-08 23:33:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 58.979 ms

Loss rate: 0.48%

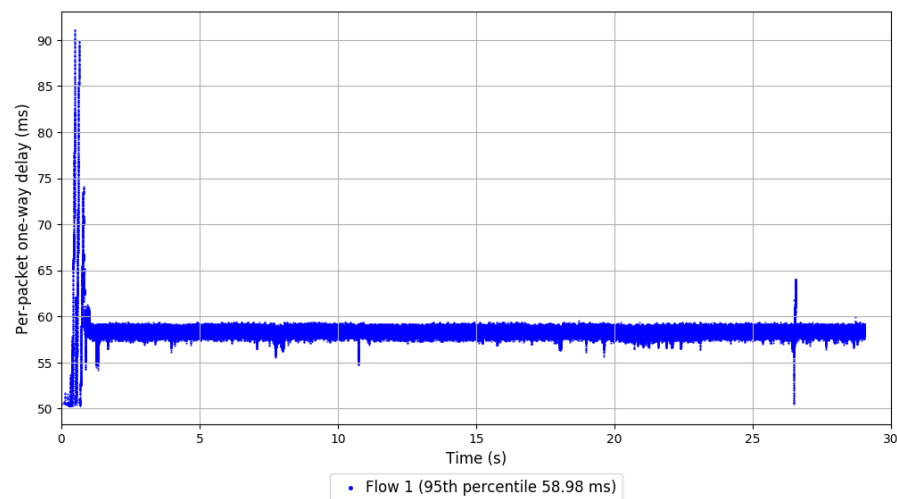
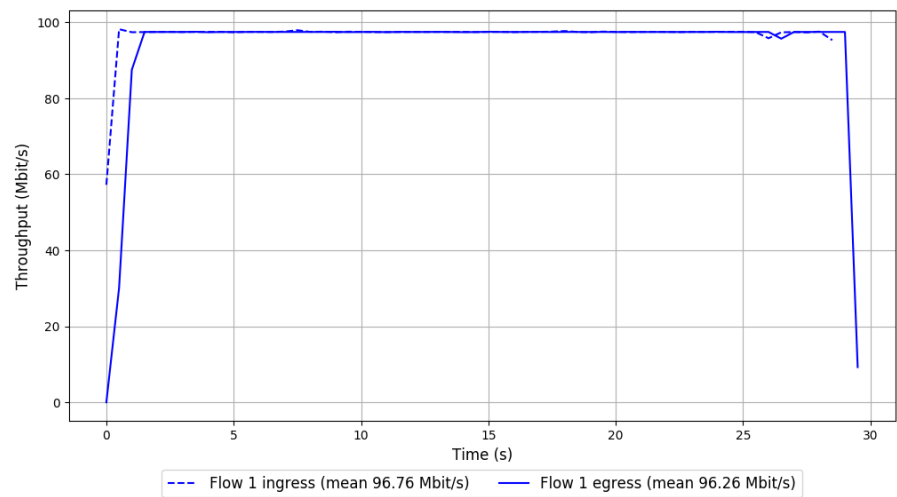
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 58.979 ms

Loss rate: 0.48%

Run 3: Report of Indigo-MusesT — Data Link



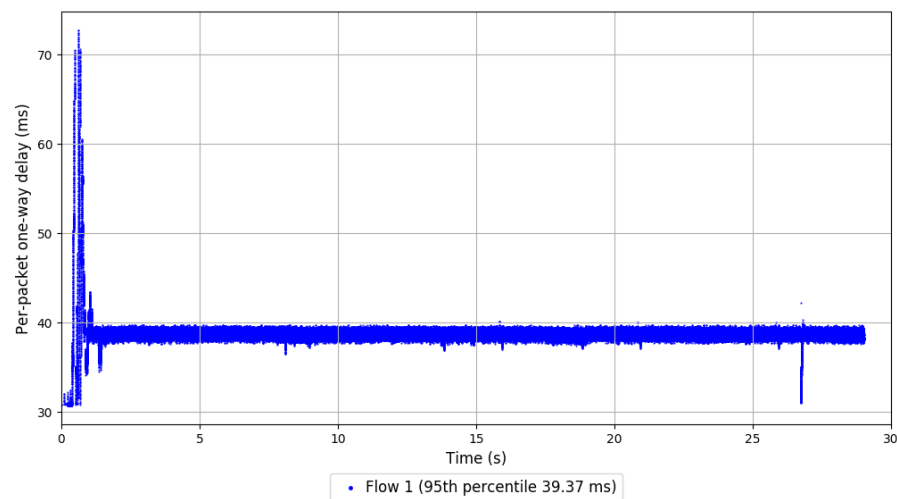
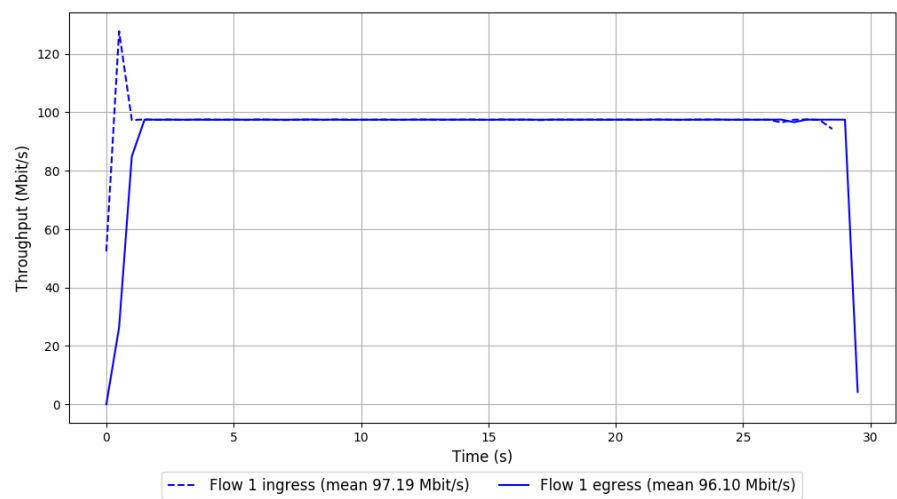


Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-08 22:34:19  
End at: 2019-03-08 22:34:49  
Local clock offset: -4.424 ms  
Remote clock offset: -1.425 ms

# Below is generated by plot.py at 2019-03-08 23:33:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.10 Mbit/s  
95th percentile per-packet one-way delay: 39.369 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 96.10 Mbit/s  
95th percentile per-packet one-way delay: 39.369 ms  
Loss rate: 1.09%

Run 4: Report of Indigo-MusesT — Data Link

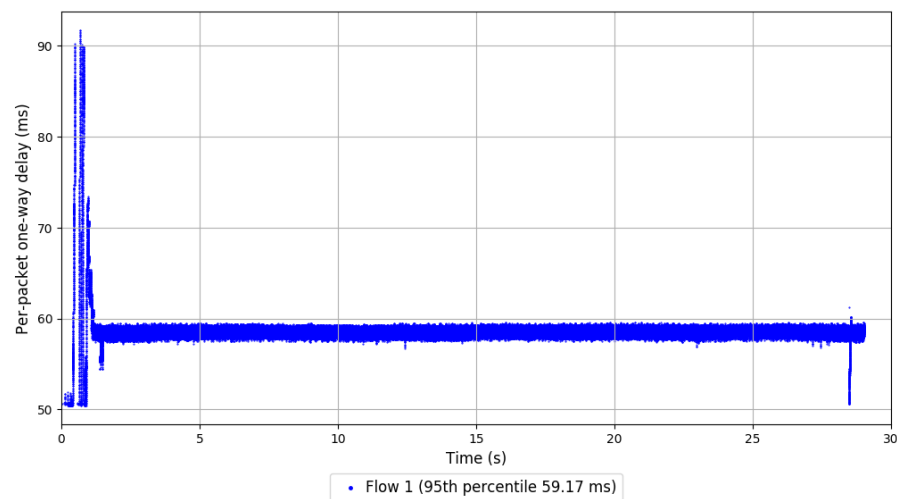
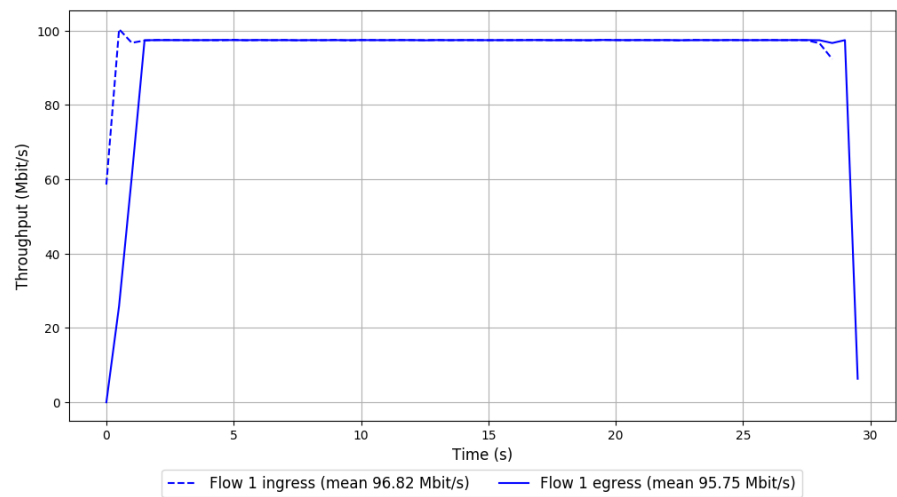


Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-08 23:00:21  
End at: 2019-03-08 23:00:51  
Local clock offset: 0.505 ms  
Remote clock offset: 18.463 ms

# Below is generated by plot.py at 2019-03-08 23:33:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 59.169 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 59.169 ms  
Loss rate: 1.07%

Run 5: Report of Indigo-MusesT — Data Link

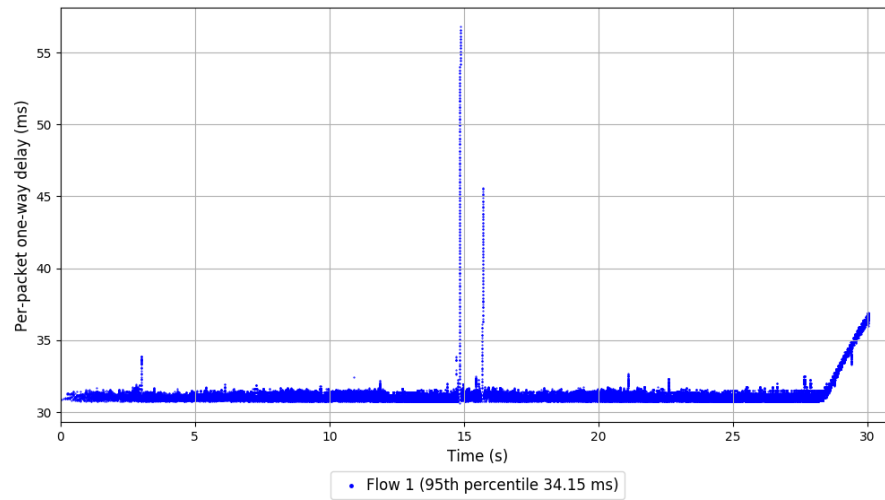
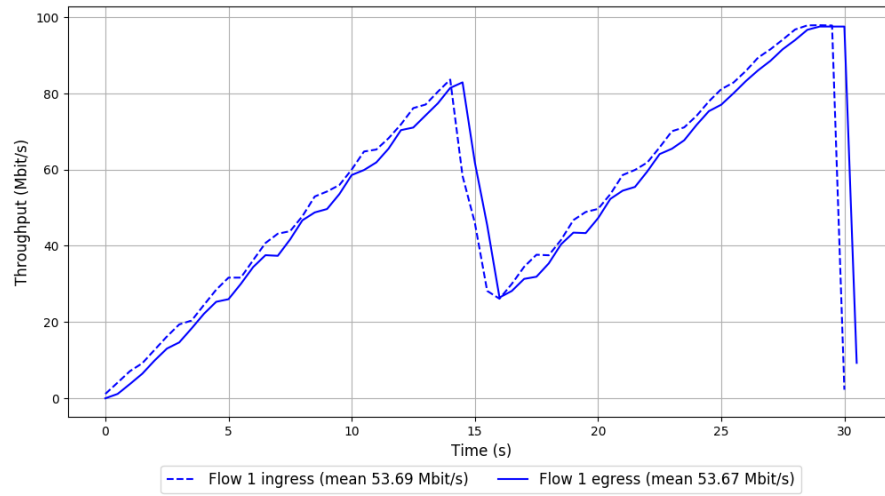


Run 1: Statistics of LEDBAT

Start at: 2019-03-08 21:39:26  
End at: 2019-03-08 21:39:56  
Local clock offset: -0.527 ms  
Remote clock offset: -2.901 ms

# Below is generated by plot.py at 2019-03-08 23:33:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 53.67 Mbit/s  
95th percentile per-packet one-way delay: 34.145 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 53.67 Mbit/s  
95th percentile per-packet one-way delay: 34.145 ms  
Loss rate: 0.02%

# Run 1: Report of LEDBAT — Data Link

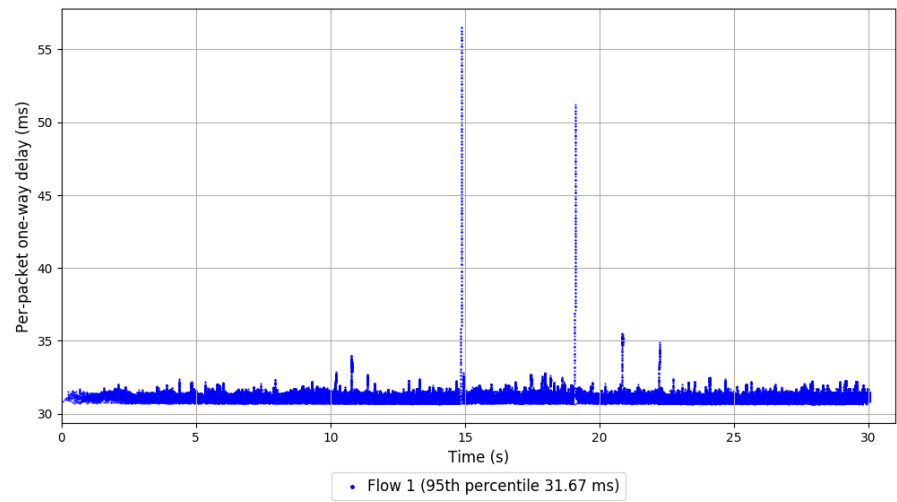
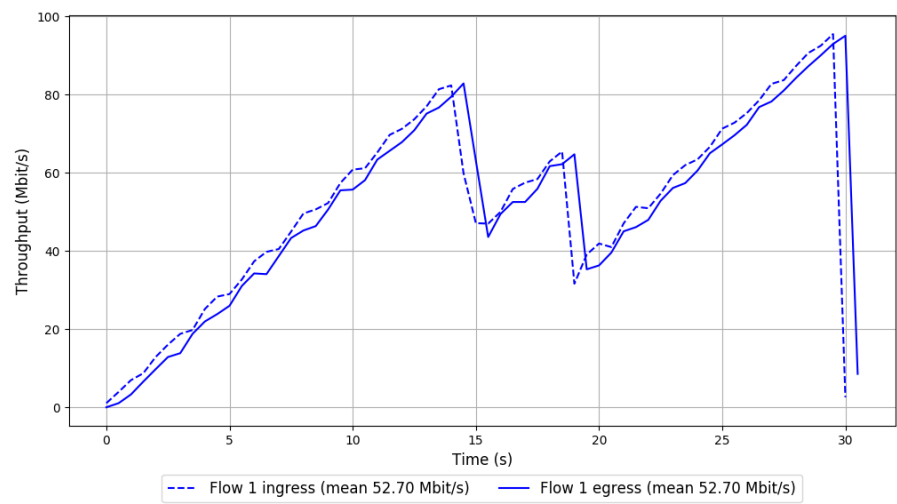


Run 2: Statistics of LEDBAT

Start at: 2019-03-08 22:03:51  
End at: 2019-03-08 22:04:21  
Local clock offset: -2.862 ms  
Remote clock offset: -2.106 ms

# Below is generated by plot.py at 2019-03-08 23:33:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 52.70 Mbit/s  
95th percentile per-packet one-way delay: 31.666 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 52.70 Mbit/s  
95th percentile per-packet one-way delay: 31.666 ms  
Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



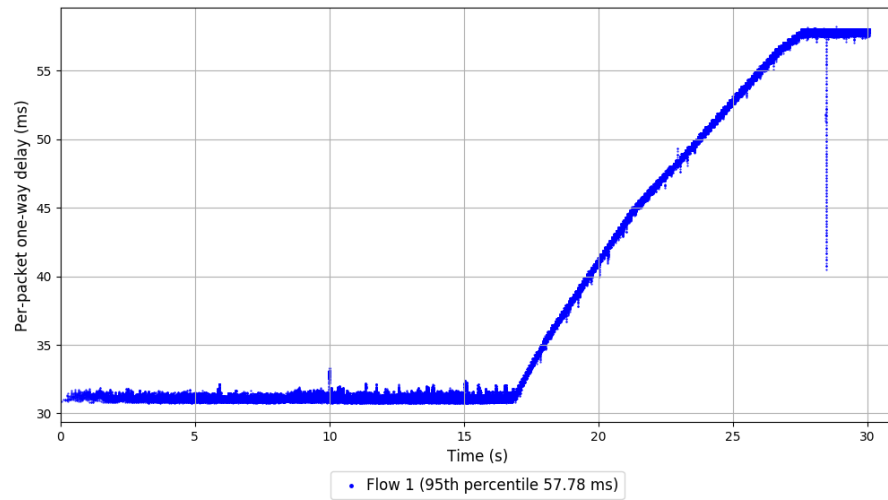
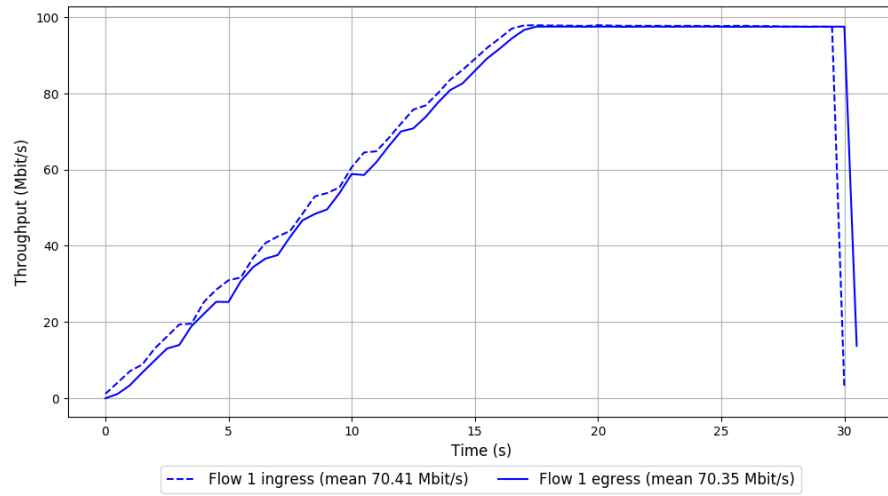


Run 3: Statistics of LEDBAT

Start at: 2019-03-08 22:29:16  
End at: 2019-03-08 22:29:46  
Local clock offset: -4.189 ms  
Remote clock offset: -1.484 ms

# Below is generated by plot.py at 2019-03-08 23:33:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.35 Mbit/s  
95th percentile per-packet one-way delay: 57.776 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.35 Mbit/s  
95th percentile per-packet one-way delay: 57.776 ms  
Loss rate: 0.00%

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

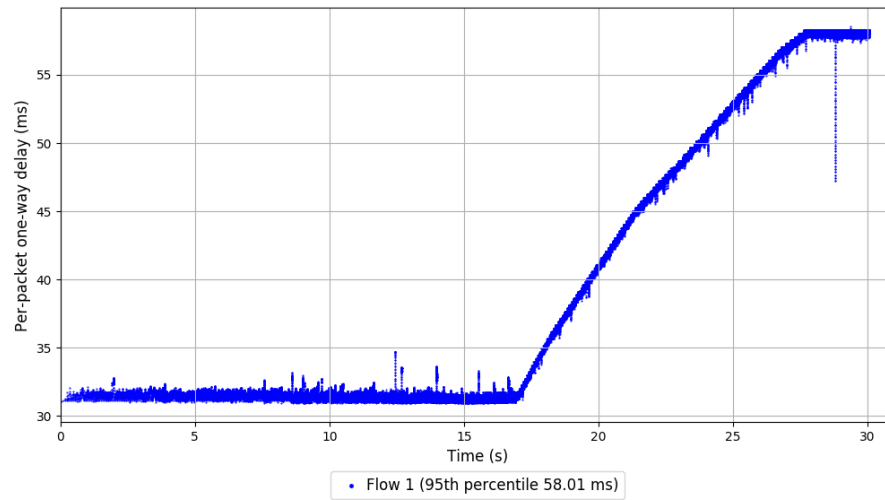
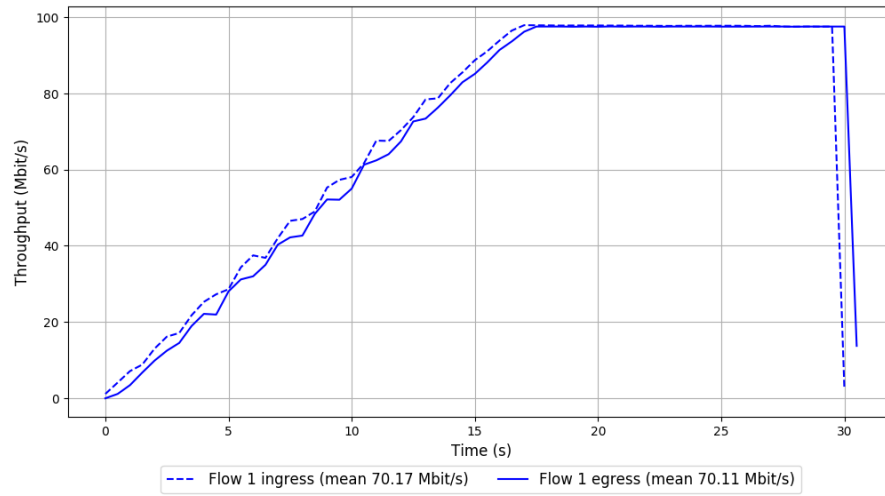


Run 4: Statistics of LEDBAT

Start at: 2019-03-08 22:55:20  
End at: 2019-03-08 22:55:50  
Local clock offset: -0.463 ms  
Remote clock offset: -1.115 ms

# Below is generated by plot.py at 2019-03-08 23:34:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.11 Mbit/s  
95th percentile per-packet one-way delay: 58.013 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.11 Mbit/s  
95th percentile per-packet one-way delay: 58.013 ms  
Loss rate: 0.00%

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



Run 5: Statistics of LEDBAT

Start at: 2019-03-08 23:20:42

End at: 2019-03-08 23:21:12

Local clock offset: 1.349 ms

Remote clock offset: -1.17 ms

# Below is generated by plot.py at 2019-03-08 23:34:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.12 Mbit/s

95th percentile per-packet one-way delay: 49.664 ms

Loss rate: 0.03%

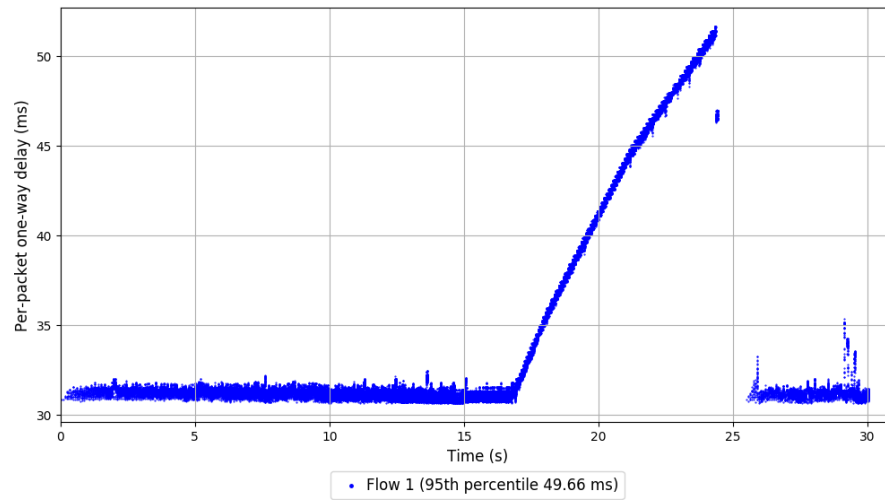
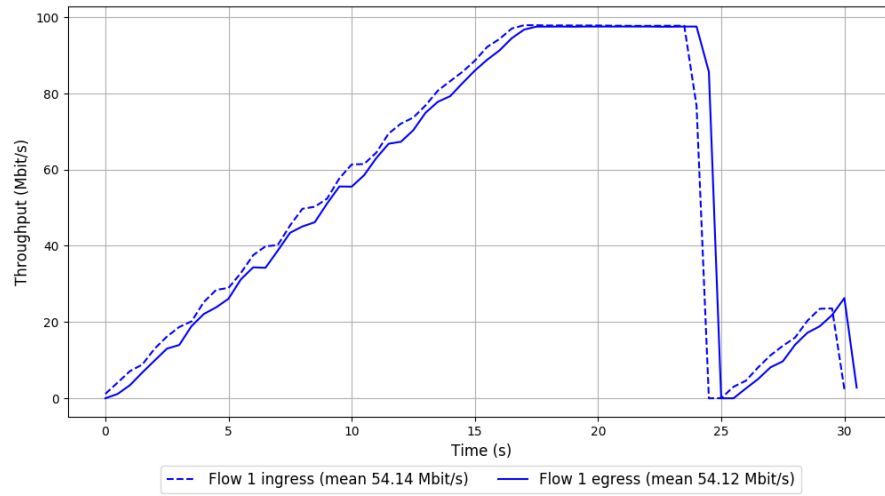
-- Flow 1:

Average throughput: 54.12 Mbit/s

95th percentile per-packet one-way delay: 49.664 ms

Loss rate: 0.03%

## Run 5: Report of LEDBAT — Data Link

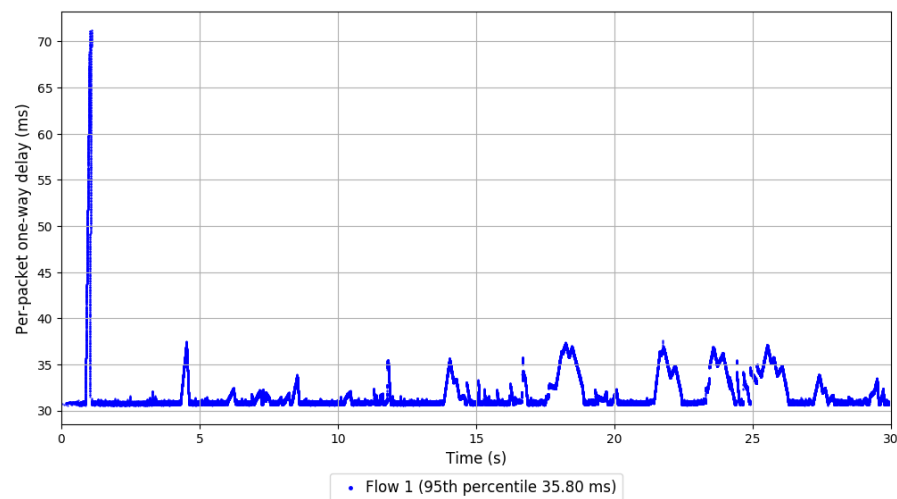
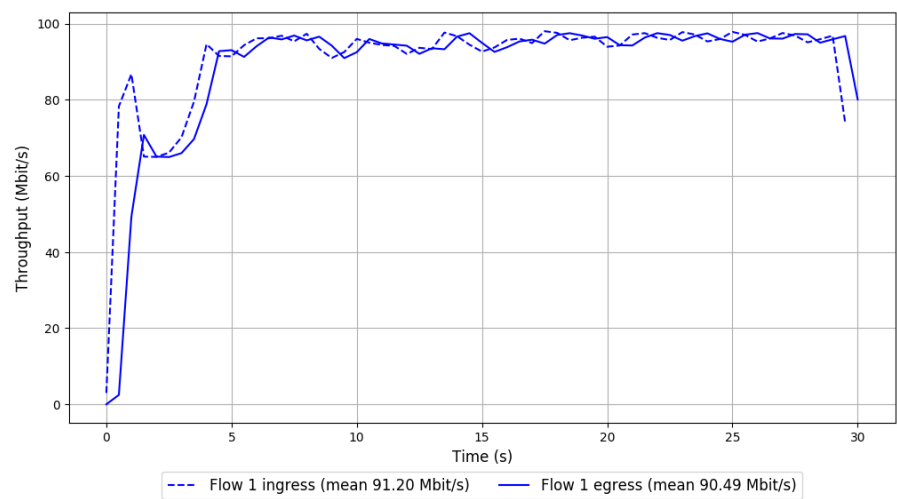


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-08 21:23:15
End at: 2019-03-08 21:23:45
Local clock offset: -0.227 ms
Remote clock offset: -3.299 ms

# Below is generated by plot.py at 2019-03-08 23:34:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 35.801 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 35.801 ms
Loss rate: 0.78%
```

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-03-08 21:47:34

End at: 2019-03-08 21:48:04

Local clock offset: -1.251 ms

Remote clock offset: -2.58 ms

# Below is generated by plot.py at 2019-03-08 23:34:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.90 Mbit/s

95th percentile per-packet one-way delay: 35.562 ms

Loss rate: 0.73%

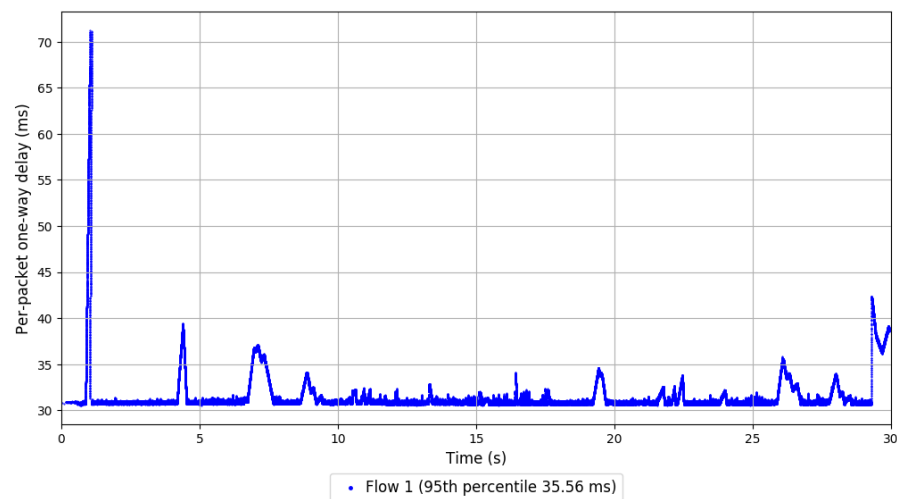
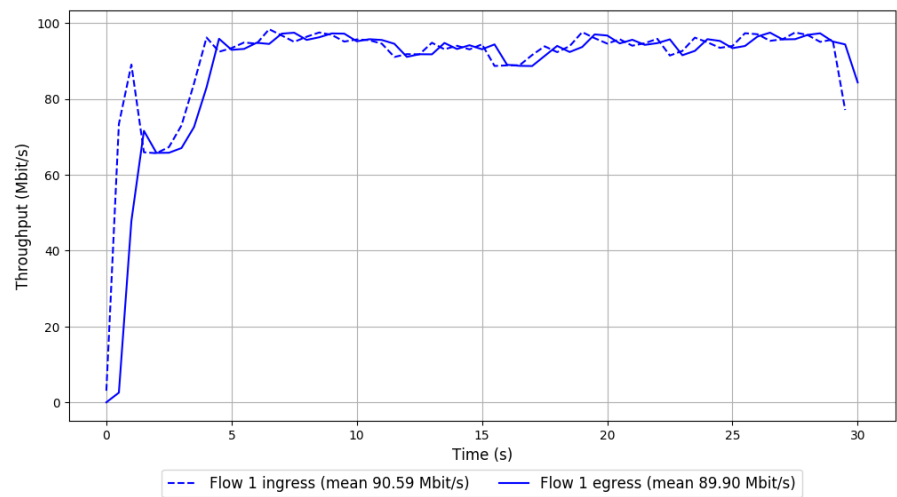
-- Flow 1:

Average throughput: 89.90 Mbit/s

95th percentile per-packet one-way delay: 35.562 ms

Loss rate: 0.73%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-08 22:12:16

End at: 2019-03-08 22:12:46

Local clock offset: -3.32 ms

Remote clock offset: -1.956 ms

# Below is generated by plot.py at 2019-03-08 23:34:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 36.197 ms

Loss rate: 0.76%

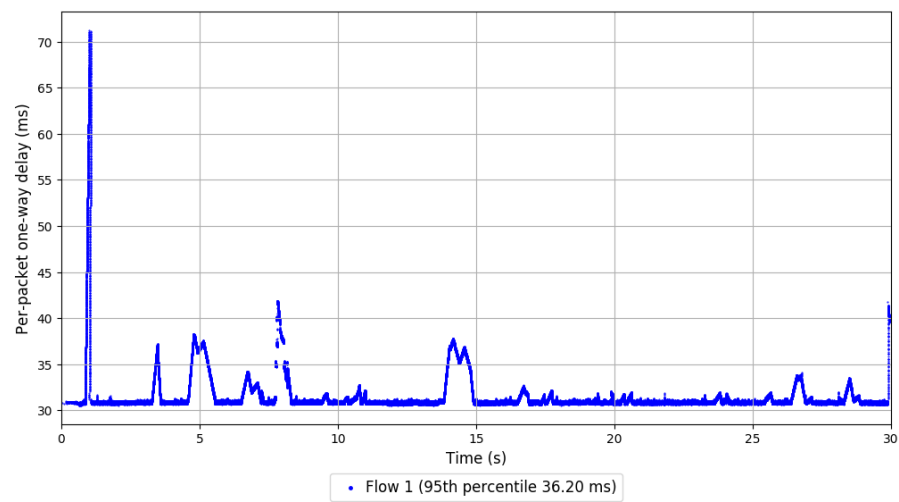
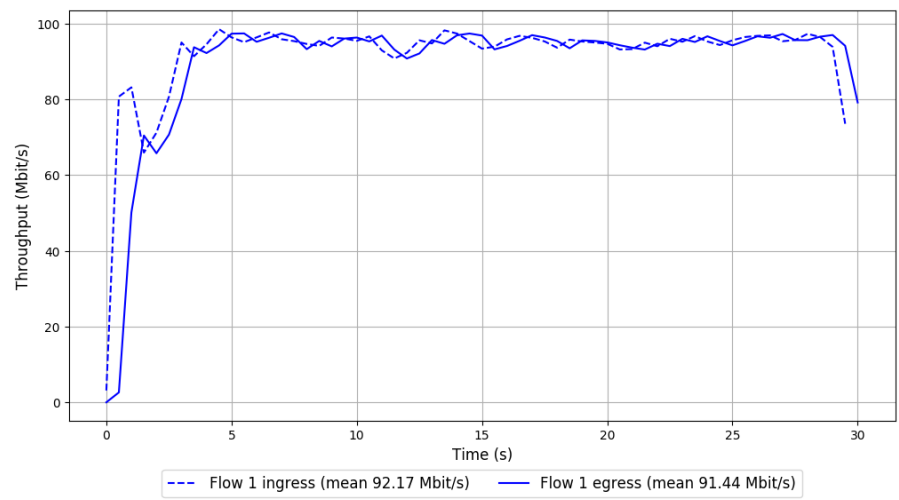
-- Flow 1:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 36.197 ms

Loss rate: 0.76%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-08 22:37:55

End at: 2019-03-08 22:38:25

Local clock offset: -4.623 ms

Remote clock offset: -1.306 ms

# Below is generated by plot.py at 2019-03-08 23:34:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 48.387 ms

Loss rate: 0.71%

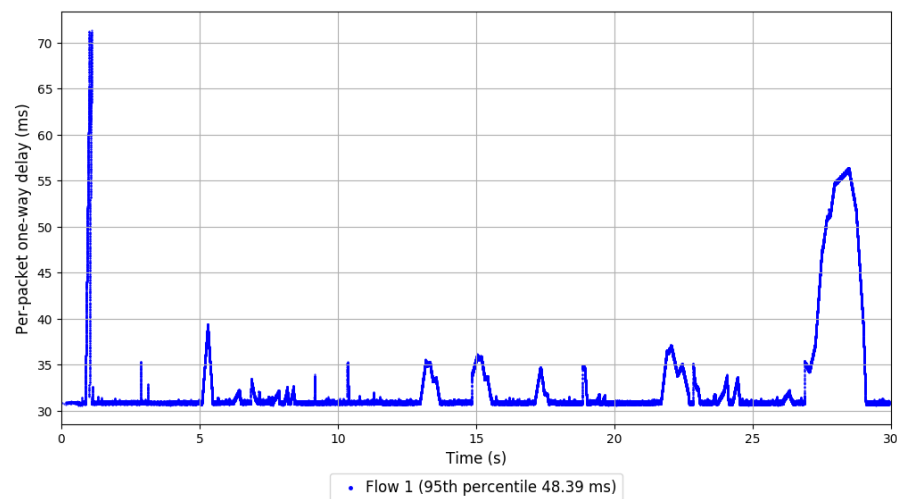
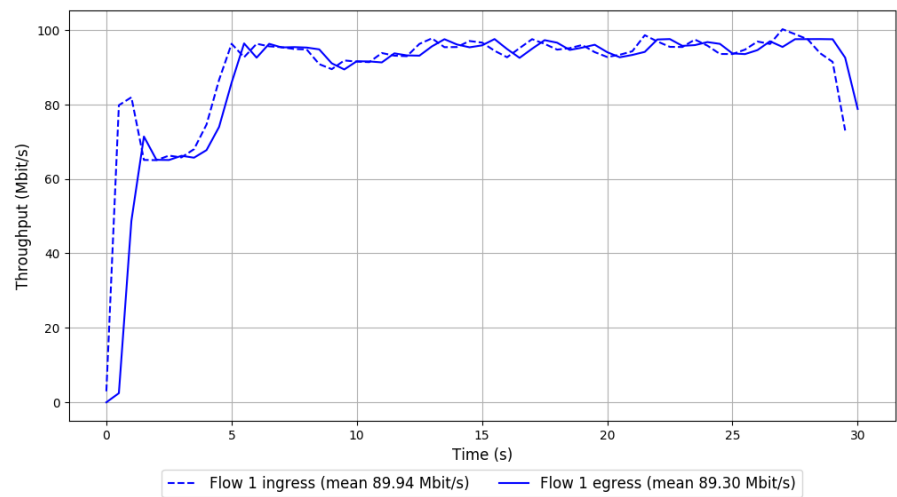
-- Flow 1:

Average throughput: 89.30 Mbit/s

95th percentile per-packet one-way delay: 48.387 ms

Loss rate: 0.71%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-08 23:04:09

End at: 2019-03-08 23:04:39

Local clock offset: 0.957 ms

Remote clock offset: -1.159 ms

# Below is generated by plot.py at 2019-03-08 23:34:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.38 Mbit/s

95th percentile per-packet one-way delay: 36.516 ms

Loss rate: 0.67%

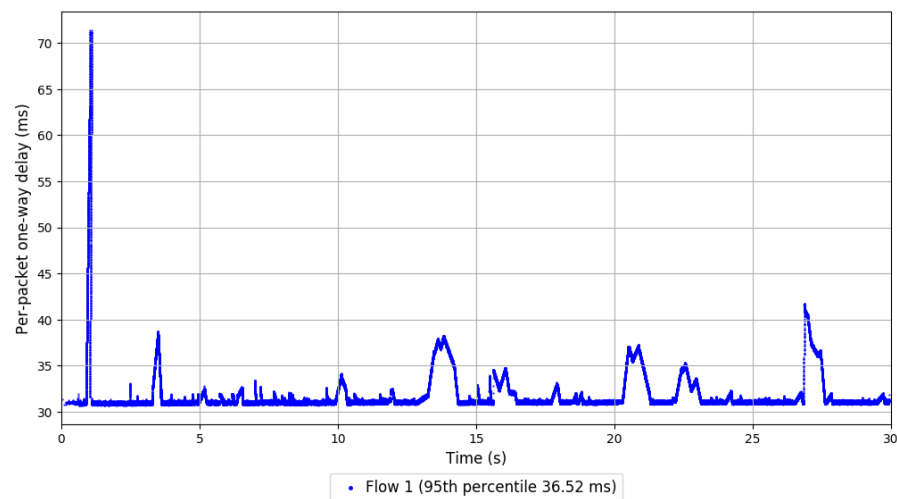
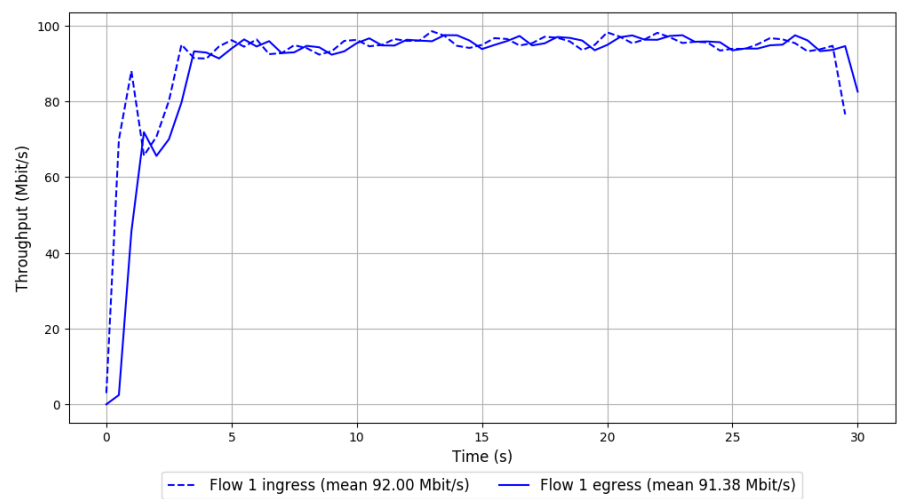
-- Flow 1:

Average throughput: 91.38 Mbit/s

95th percentile per-packet one-way delay: 36.516 ms

Loss rate: 0.67%

Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

Start at: 2019-03-08 21:38:18

End at: 2019-03-08 21:38:48

Local clock offset: -0.51 ms

Remote clock offset: 17.109 ms

# Below is generated by plot.py at 2019-03-08 23:34:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 50.941 ms

Loss rate: 56.19%

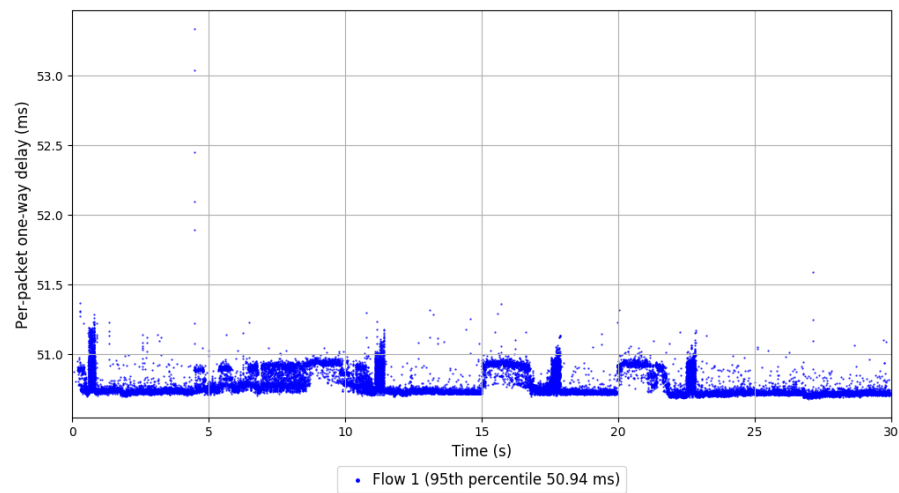
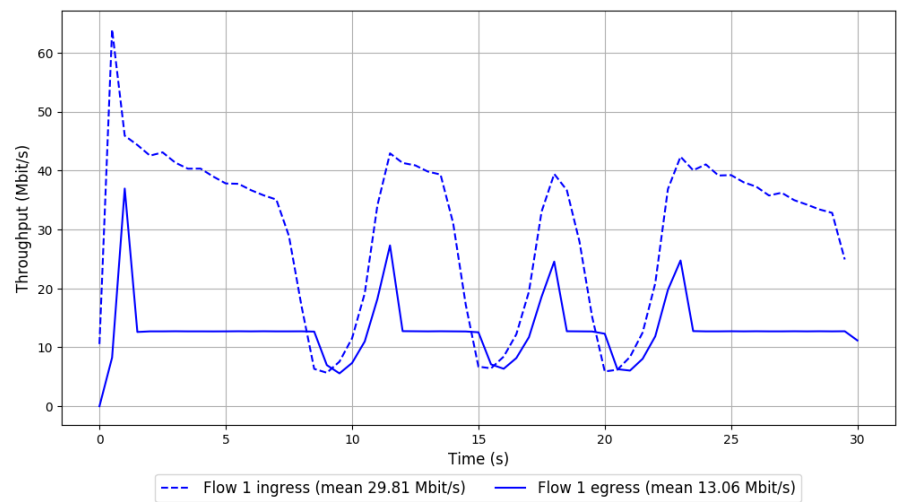
-- Flow 1:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 50.941 ms

Loss rate: 56.19%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-08 22:02:44

End at: 2019-03-08 22:03:14

Local clock offset: -2.817 ms

Remote clock offset: 17.44 ms

# Below is generated by plot.py at 2019-03-08 23:34:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 50.475 ms

Loss rate: 44.65%

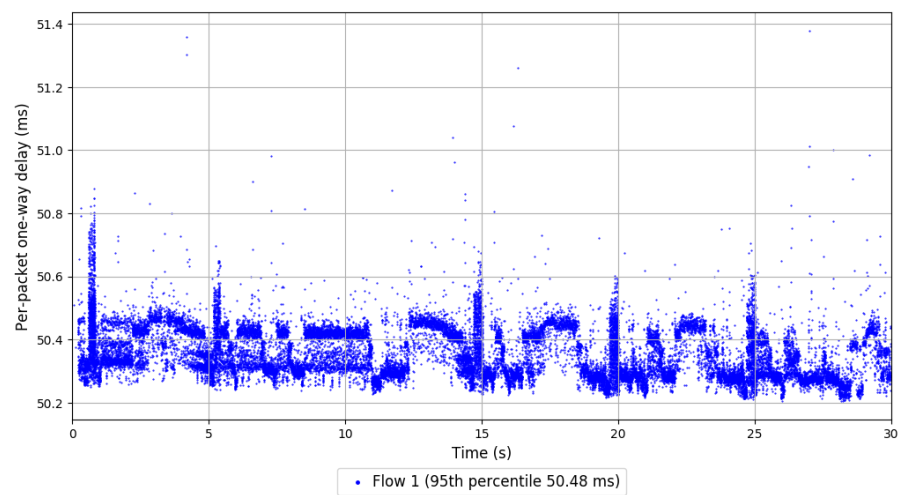
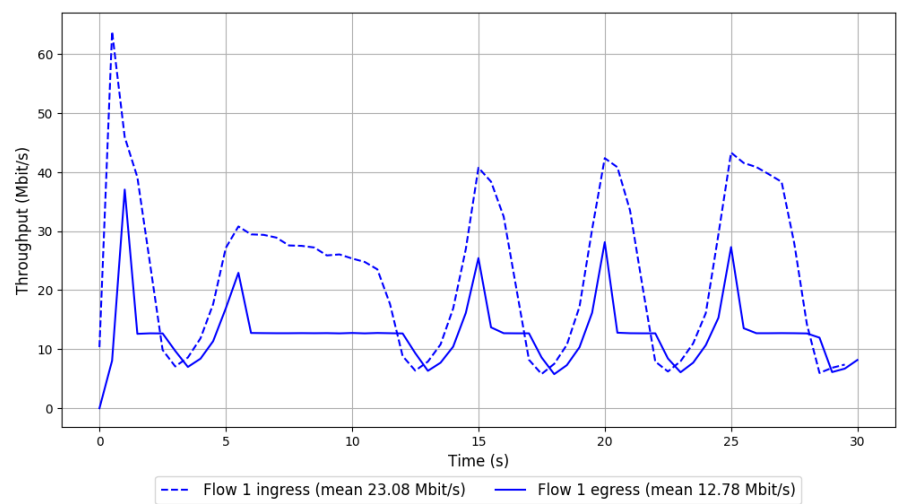
-- Flow 1:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 50.475 ms

Loss rate: 44.65%

Run 2: Report of PCC-Expr — Data Link

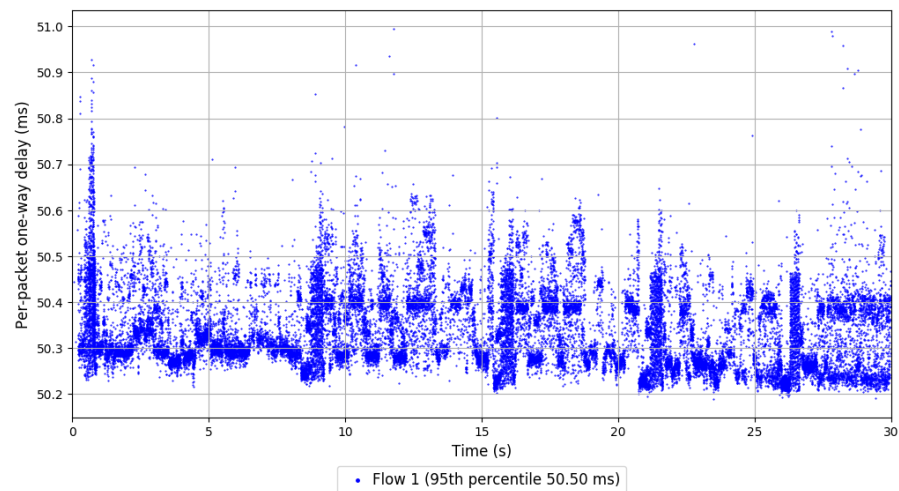
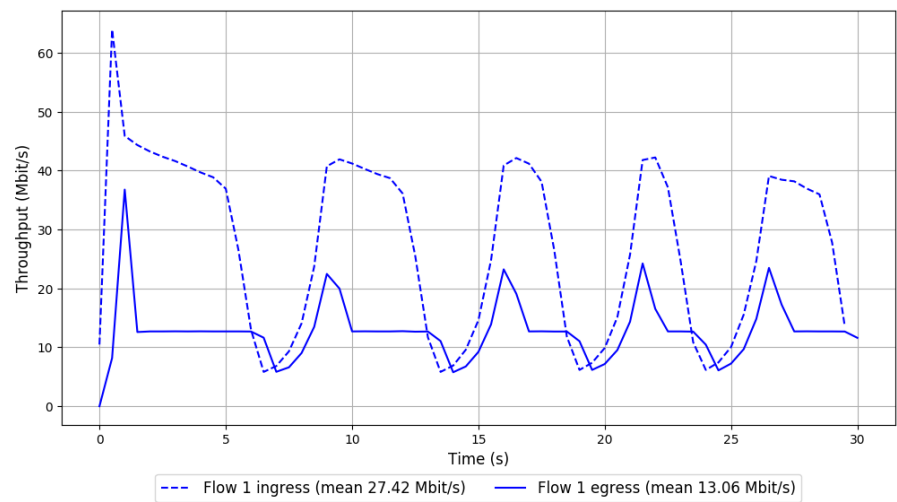


Run 3: Statistics of PCC-Expr

Start at: 2019-03-08 22:28:08  
End at: 2019-03-08 22:28:38  
Local clock offset: -4.127 ms  
Remote clock offset: 18.013 ms

# Below is generated by plot.py at 2019-03-08 23:34:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 50.497 ms  
Loss rate: 52.39%  
-- Flow 1:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 50.497 ms  
Loss rate: 52.39%

Run 3: Report of PCC-Expr — Data Link

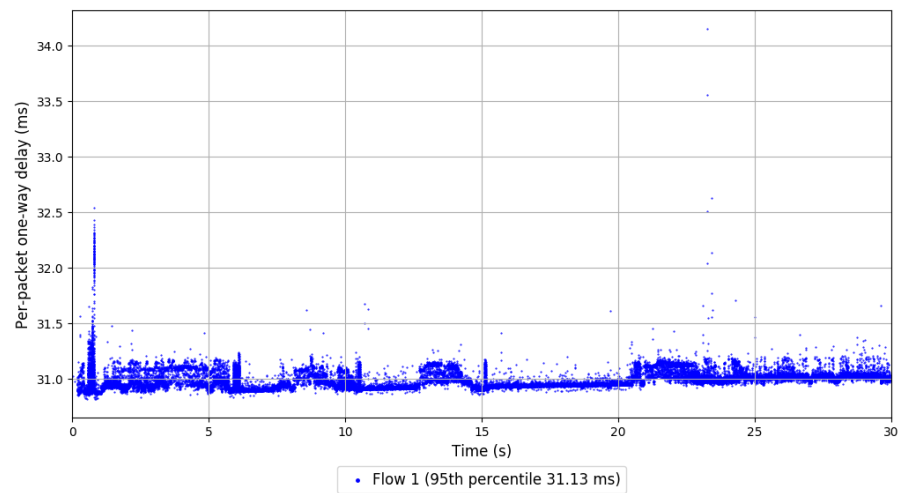
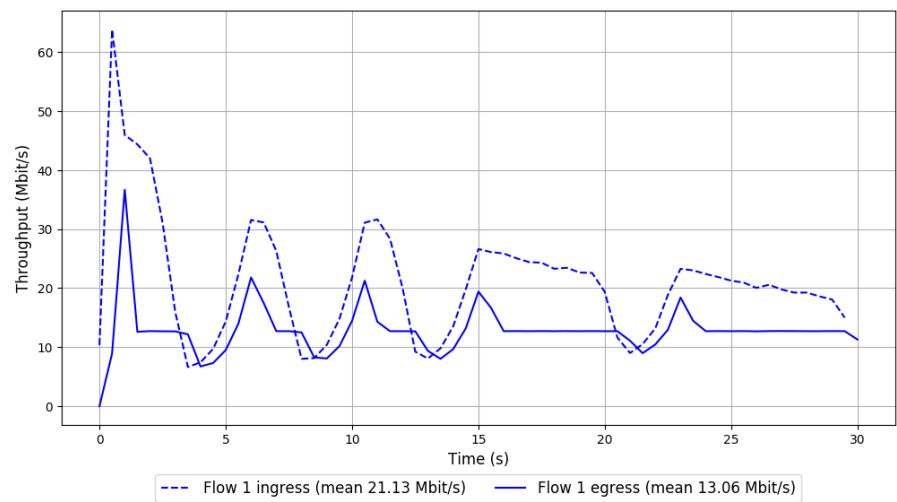


Run 4: Statistics of PCC-Expr

Start at: 2019-03-08 22:54:11  
End at: 2019-03-08 22:54:41  
Local clock offset: -0.713 ms  
Remote clock offset: -1.128 ms

# Below is generated by plot.py at 2019-03-08 23:34:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 31.133 ms  
Loss rate: 38.19%  
-- Flow 1:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 31.133 ms  
Loss rate: 38.19%

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

Start at: 2019-03-08 23:19:34

End at: 2019-03-08 23:20:04

Local clock offset: 1.416 ms

Remote clock offset: -1.116 ms

# Below is generated by plot.py at 2019-03-08 23:34:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 30.994 ms

Loss rate: 52.86%

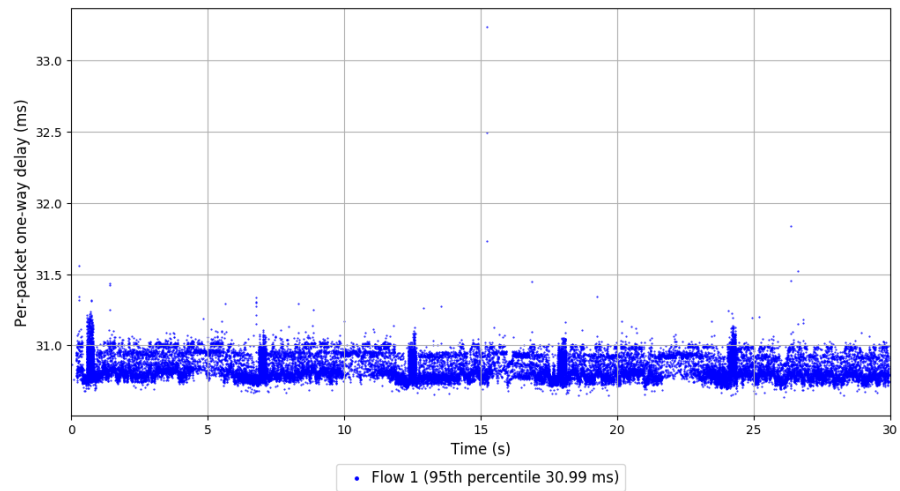
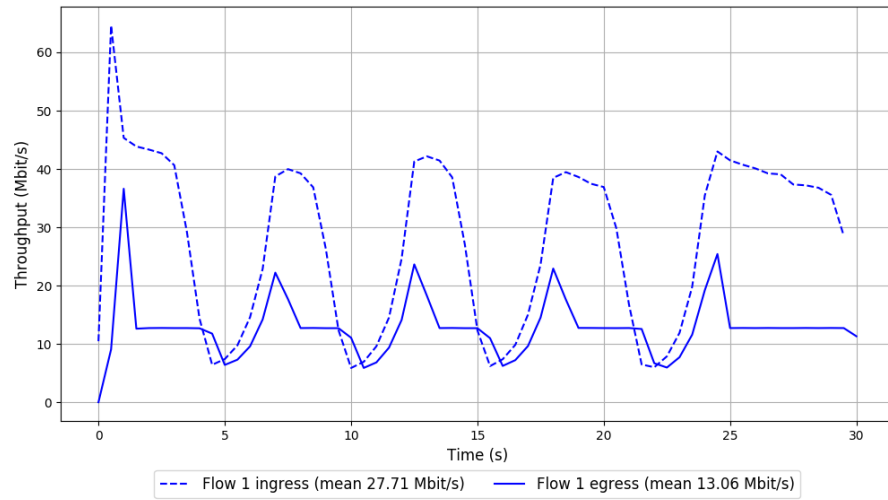
-- Flow 1:

Average throughput: 13.06 Mbit/s

95th percentile per-packet one-way delay: 30.994 ms

Loss rate: 52.86%

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

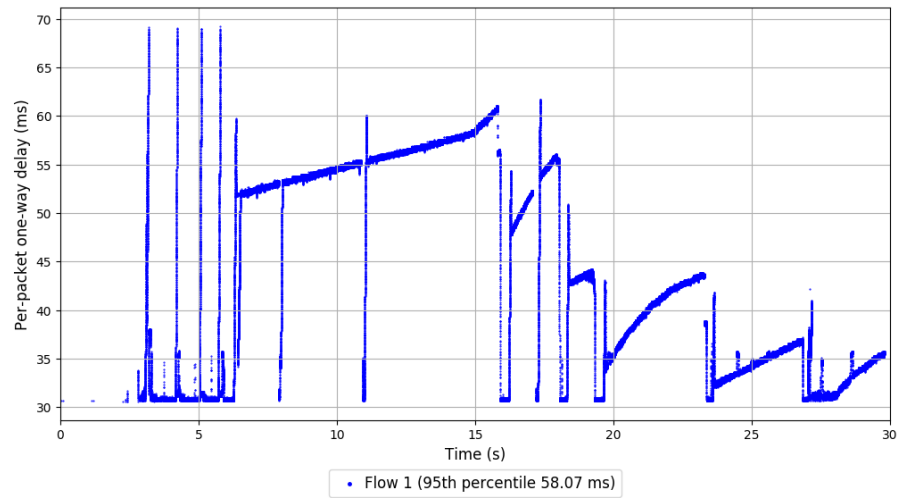
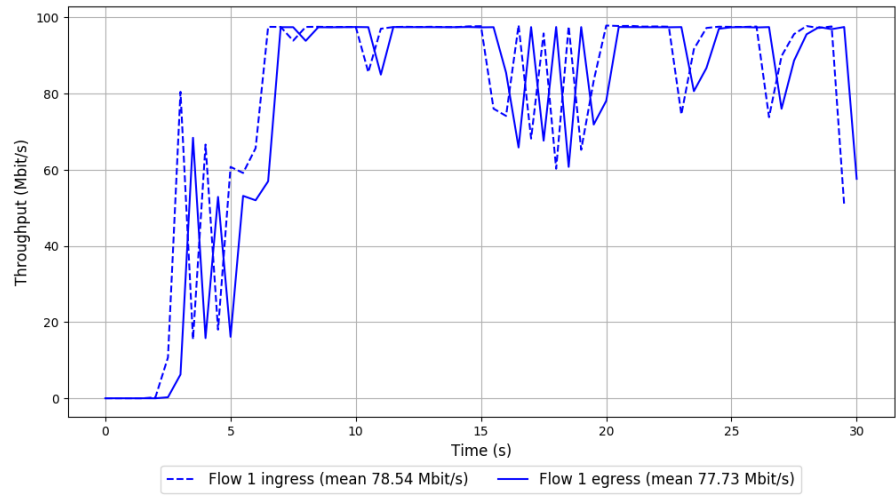


Run 1: Statistics of QUIC Cubic

Start at: 2019-03-08 21:33:42  
End at: 2019-03-08 21:34:12  
Local clock offset: -0.435 ms  
Remote clock offset: -3.018 ms

# Below is generated by plot.py at 2019-03-08 23:35:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.73 Mbit/s  
95th percentile per-packet one-way delay: 58.069 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 77.73 Mbit/s  
95th percentile per-packet one-way delay: 58.069 ms  
Loss rate: 1.02%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-08 21:58:08

End at: 2019-03-08 21:58:38

Local clock offset: -2.504 ms

Remote clock offset: -2.293 ms

# Below is generated by plot.py at 2019-03-08 23:35:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 67.145 ms

Loss rate: 1.72%

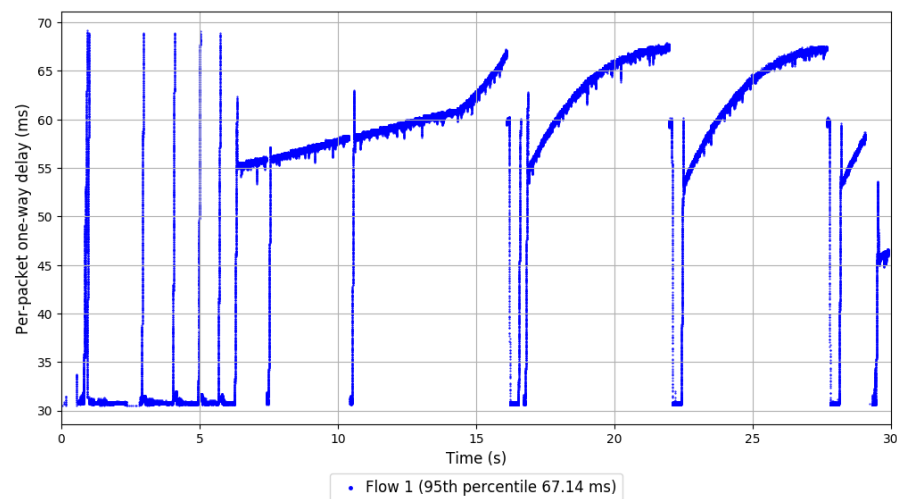
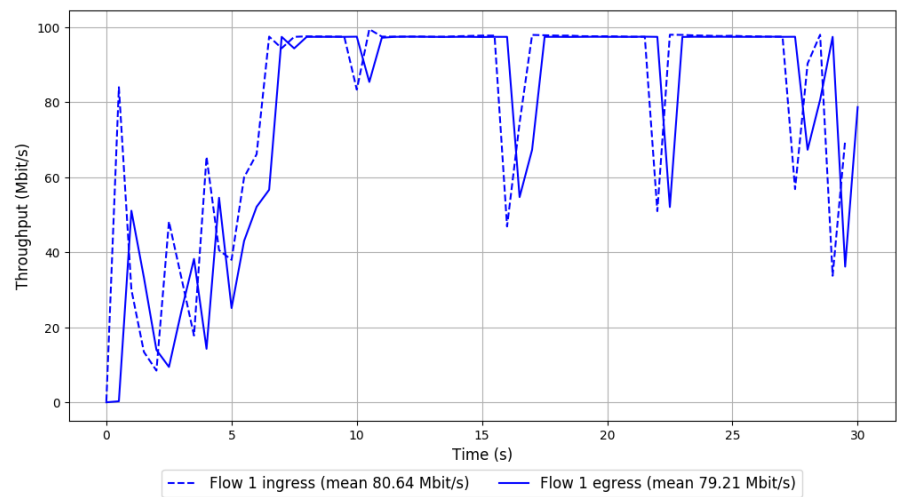
-- Flow 1:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 67.145 ms

Loss rate: 1.72%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-08 22:23:18

End at: 2019-03-08 22:23:48

Local clock offset: -3.898 ms

Remote clock offset: -1.695 ms

# Below is generated by plot.py at 2019-03-08 23:35:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.42 Mbit/s

95th percentile per-packet one-way delay: 60.995 ms

Loss rate: 1.63%

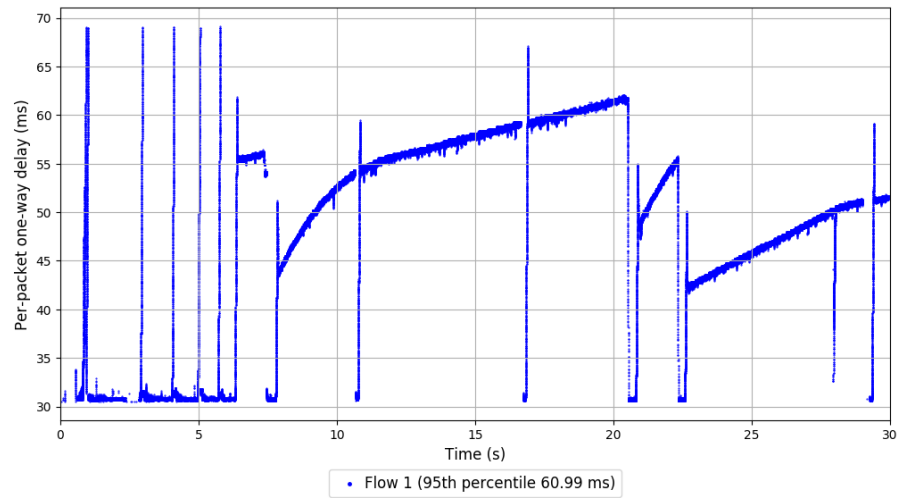
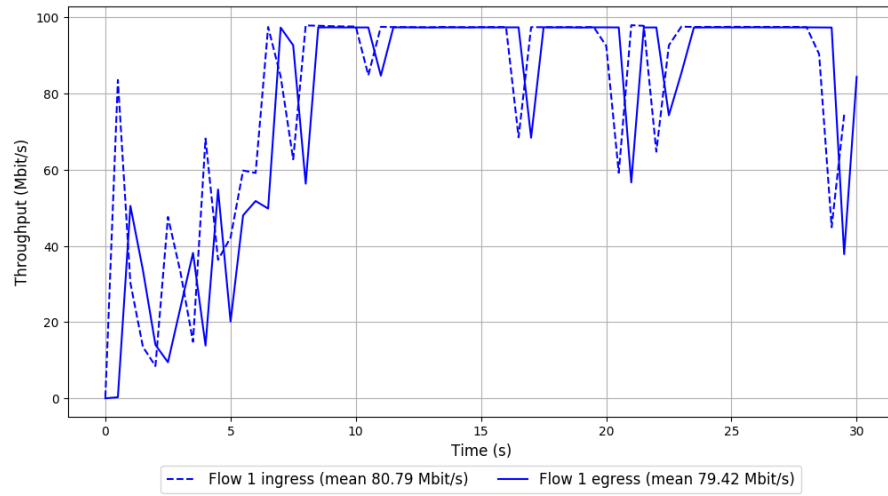
-- Flow 1:

Average throughput: 79.42 Mbit/s

95th percentile per-packet one-way delay: 60.995 ms

Loss rate: 1.63%

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



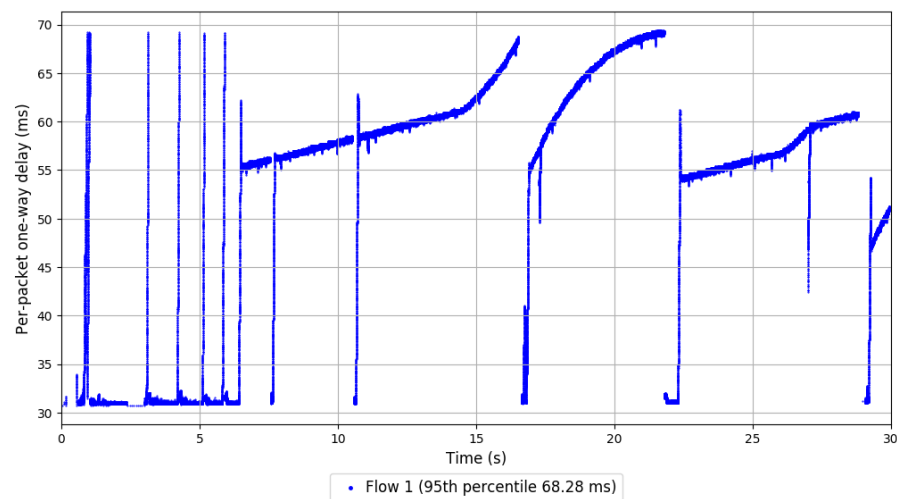
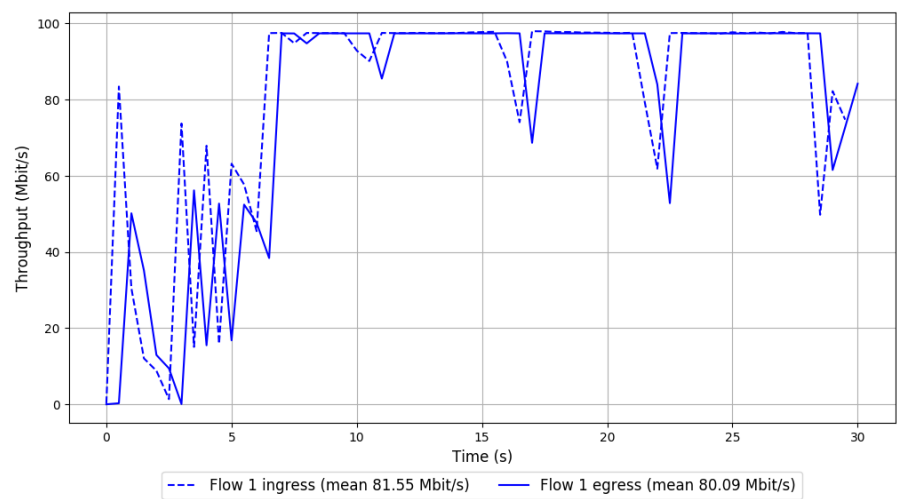


Run 4: Statistics of QUIC Cubic

Start at: 2019-03-08 22:49:23  
End at: 2019-03-08 22:49:53  
Local clock offset: -2.218 ms  
Remote clock offset: -1.205 ms

# Below is generated by plot.py at 2019-03-08 23:35:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.09 Mbit/s  
95th percentile per-packet one-way delay: 68.278 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 80.09 Mbit/s  
95th percentile per-packet one-way delay: 68.278 ms  
Loss rate: 1.73%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-08 23:14:57

End at: 2019-03-08 23:15:27

Local clock offset: 1.84 ms

Remote clock offset: 18.462 ms

# Below is generated by plot.py at 2019-03-08 23:35:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 84.694 ms

Loss rate: 1.61%

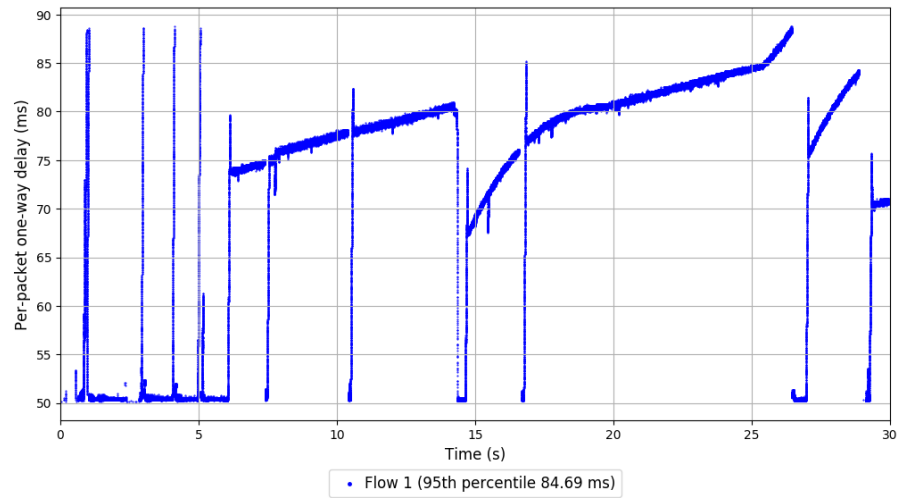
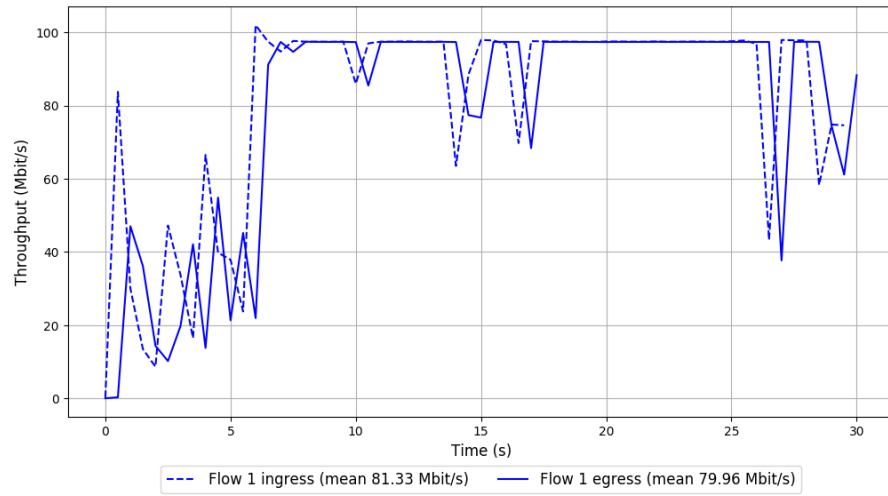
-- Flow 1:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 84.694 ms

Loss rate: 1.61%

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

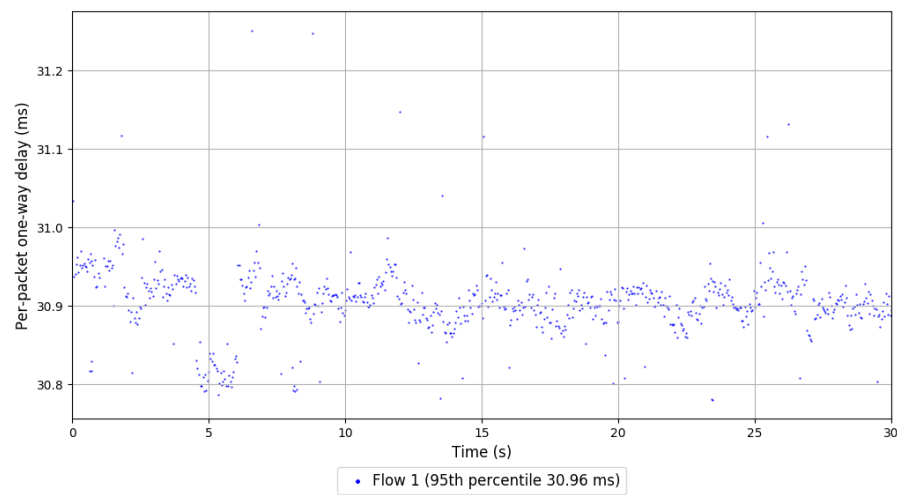
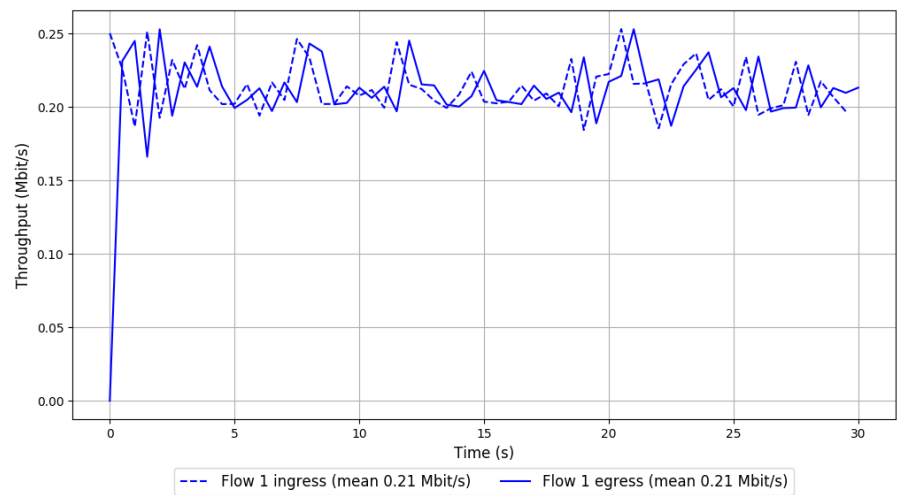


Run 1: Statistics of SCReAM

Start at: 2019-03-08 21:22:08  
End at: 2019-03-08 21:22:38  
Local clock offset: -0.252 ms  
Remote clock offset: -3.279 ms

# Below is generated by plot.py at 2019-03-08 23:35:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.956 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.956 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

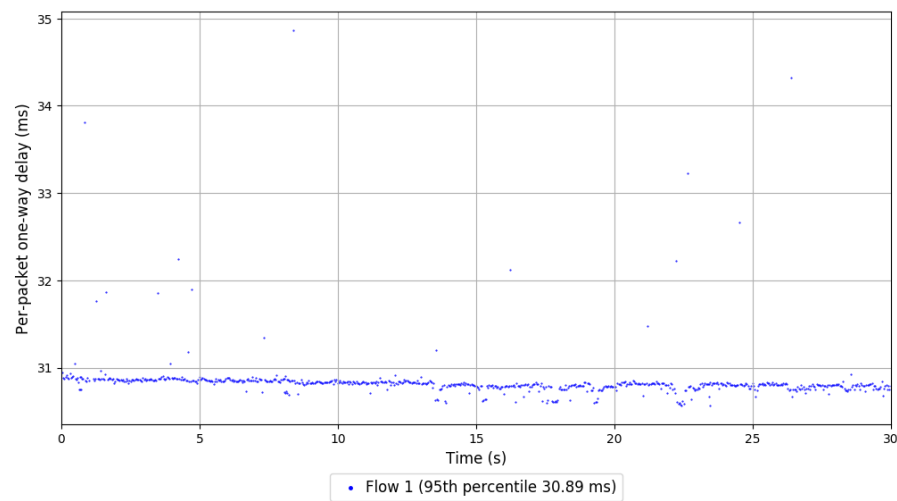
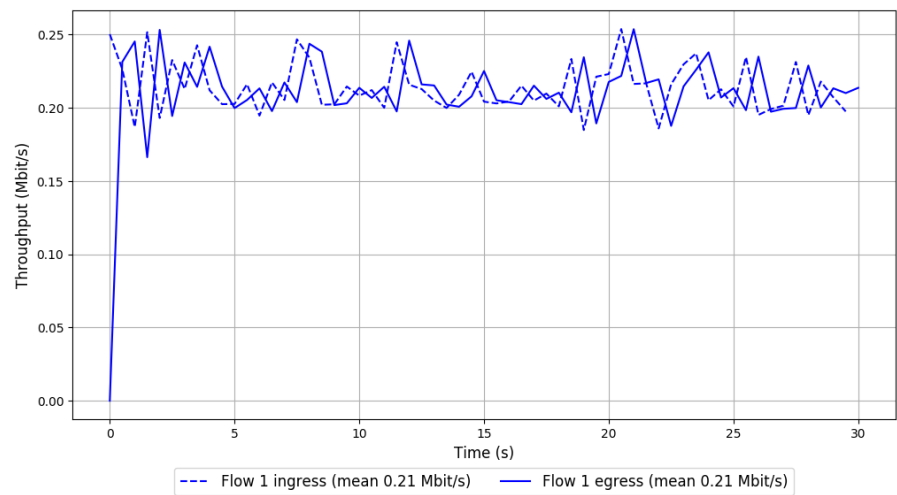


Run 2: Statistics of SCReAM

Start at: 2019-03-08 21:46:28  
End at: 2019-03-08 21:46:58  
Local clock offset: -1.036 ms  
Remote clock offset: -2.609 ms

# Below is generated by plot.py at 2019-03-08 23:35:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.889 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.889 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link





Run 3: Statistics of SCReAM

Start at: 2019-03-08 22:11:10

End at: 2019-03-08 22:11:40

Local clock offset: -3.284 ms

Remote clock offset: -1.96 ms

# Below is generated by plot.py at 2019-03-08 23:35:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.879 ms

Loss rate: 0.00%

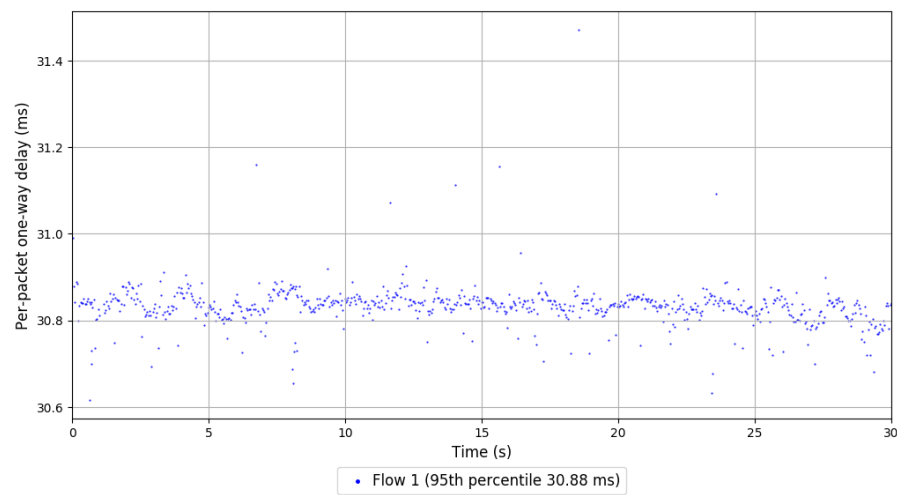
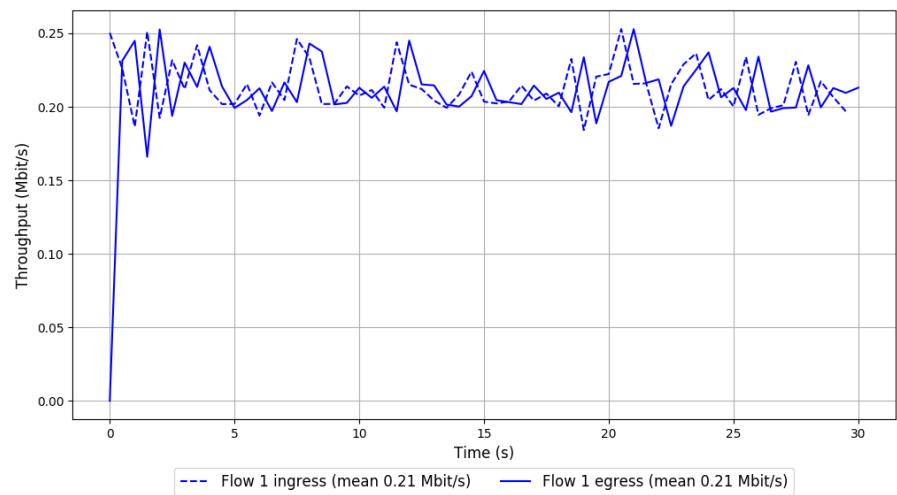
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 30.879 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

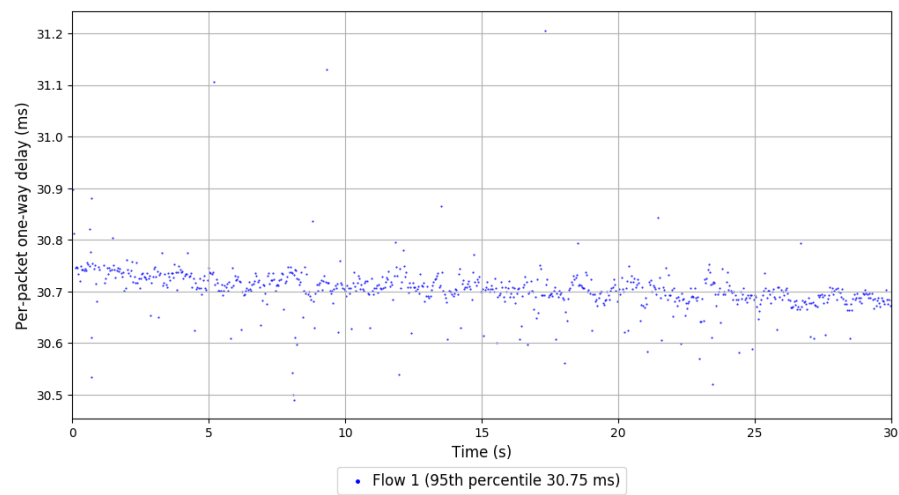
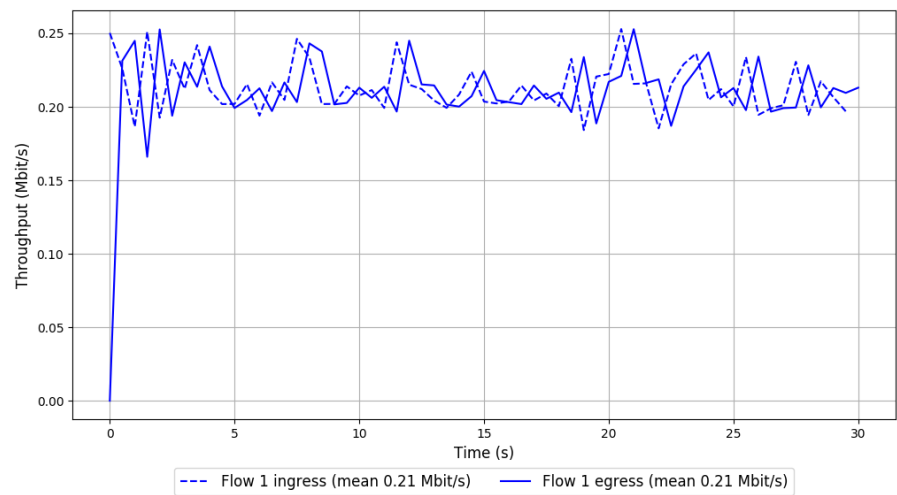


Run 4: Statistics of SCReAM

Start at: 2019-03-08 22:36:49  
End at: 2019-03-08 22:37:19  
Local clock offset: -4.563 ms  
Remote clock offset: -1.512 ms

# Below is generated by plot.py at 2019-03-08 23:35:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.748 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 30.748 ms  
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link

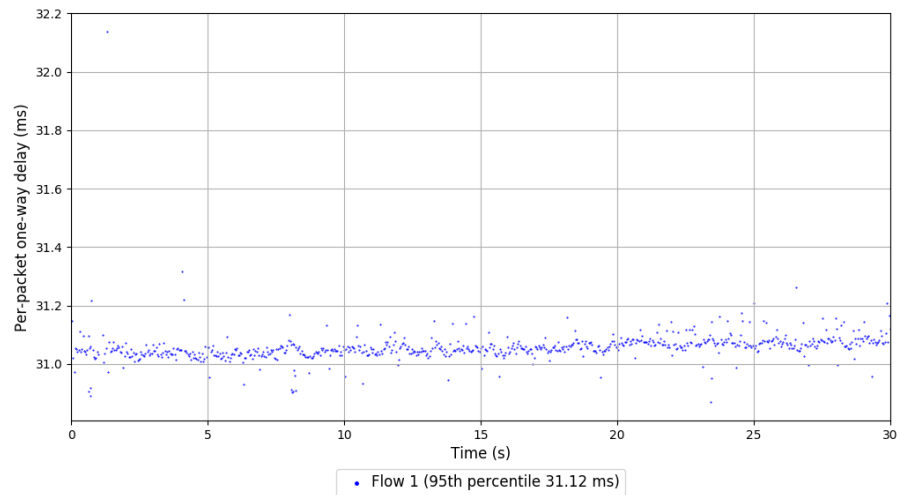
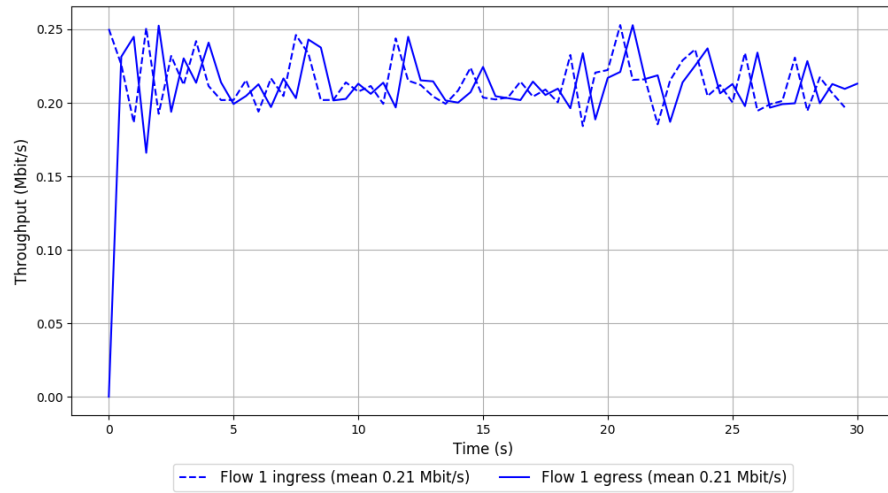


Run 5: Statistics of SReAM

Start at: 2019-03-08 23:03:02  
End at: 2019-03-08 23:03:32  
Local clock offset: 0.834 ms  
Remote clock offset: -1.111 ms

# Below is generated by plot.py at 2019-03-08 23:35:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.118 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 31.118 ms  
Loss rate: 0.00%

## Run 5: Report of SReAM — Data Link

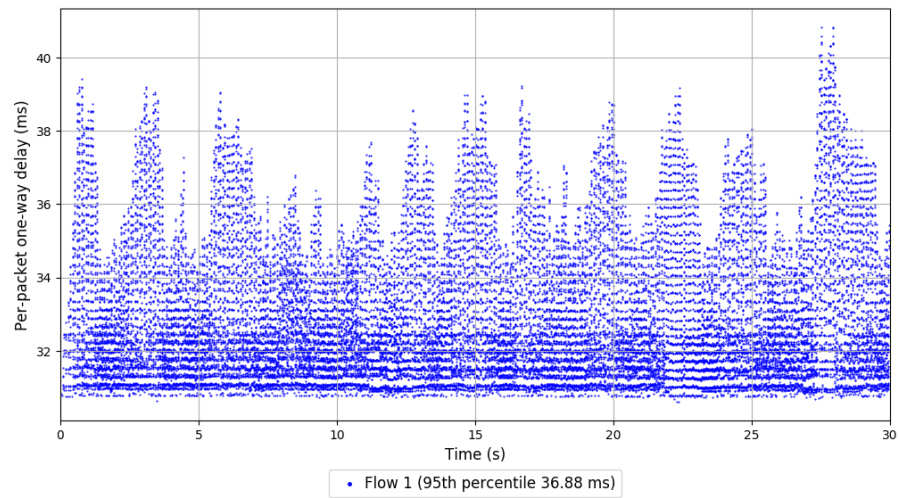
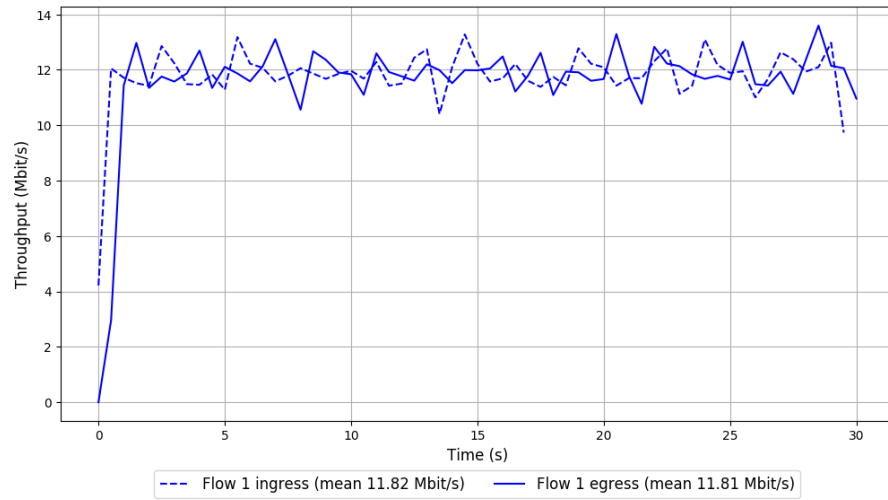


Run 1: Statistics of Sprout

Start at: 2019-03-08 21:42:58  
End at: 2019-03-08 21:43:28  
Local clock offset: -0.583 ms  
Remote clock offset: -2.716 ms

# Below is generated by plot.py at 2019-03-08 23:35:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.81 Mbit/s  
95th percentile per-packet one-way delay: 36.877 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 11.81 Mbit/s  
95th percentile per-packet one-way delay: 36.877 ms  
Loss rate: 0.02%

# Run 1: Report of Sprout — Data Link



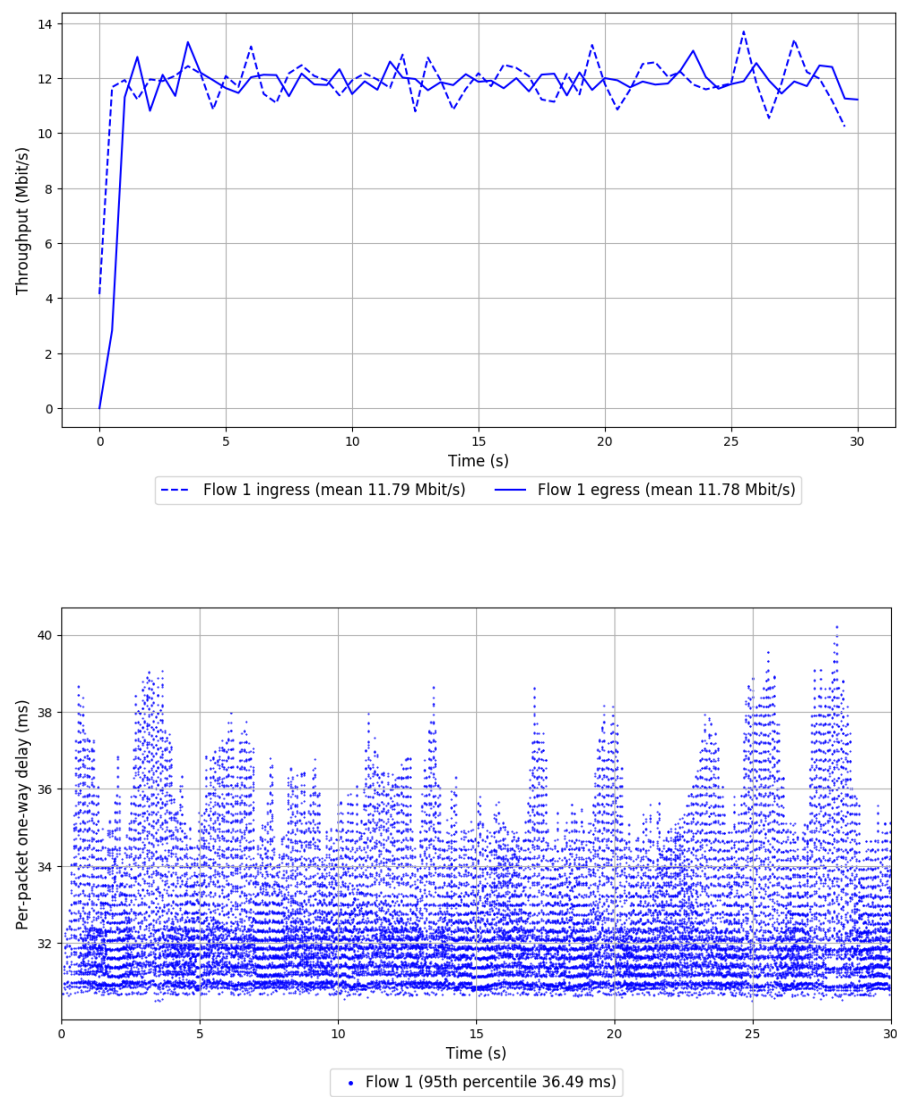


Run 2: Statistics of Sprout

Start at: 2019-03-08 22:07:21  
End at: 2019-03-08 22:07:51  
Local clock offset: -3.072 ms  
Remote clock offset: -2.029 ms

# Below is generated by plot.py at 2019-03-08 23:35:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.78 Mbit/s  
95th percentile per-packet one-way delay: 36.493 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 11.78 Mbit/s  
95th percentile per-packet one-way delay: 36.493 ms  
Loss rate: 0.09%

Run 2: Report of Sprout — Data Link

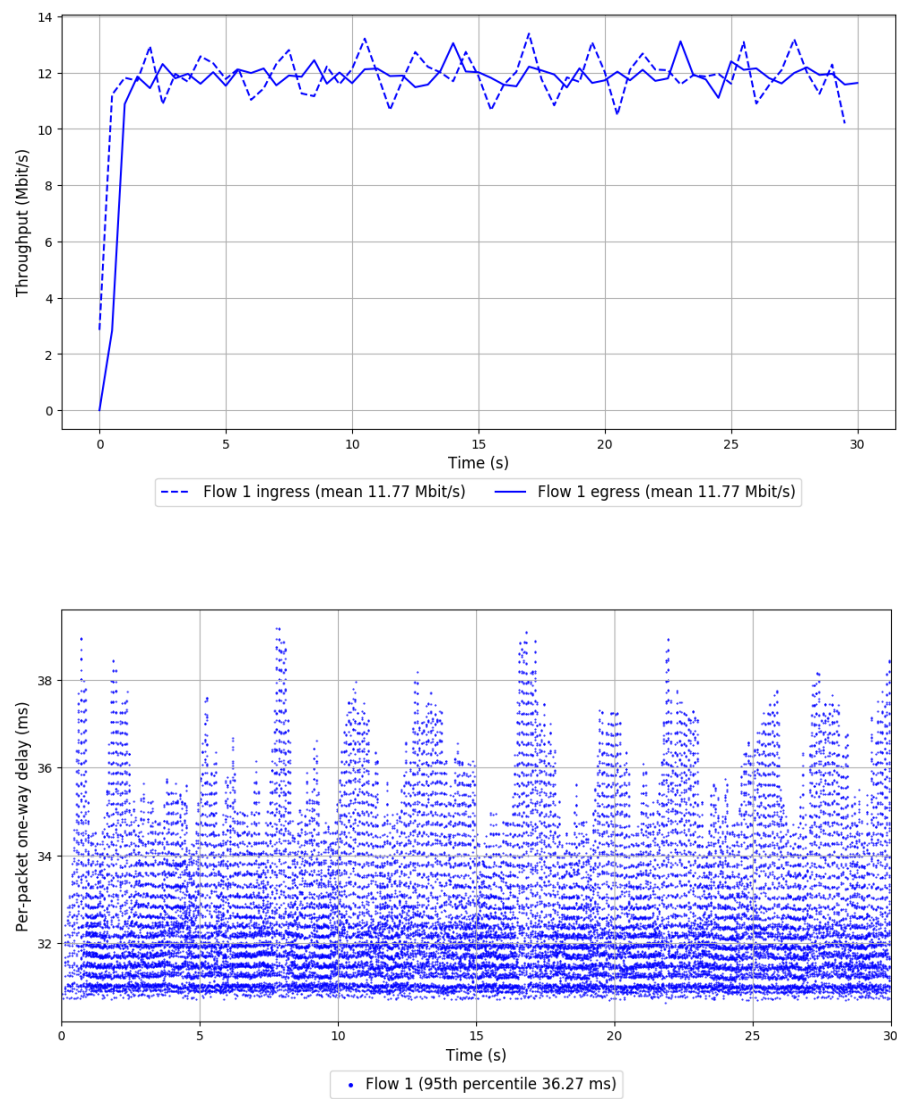


Run 3: Statistics of Sprout

Start at: 2019-03-08 22:33:12  
End at: 2019-03-08 22:33:42  
Local clock offset: -4.387 ms  
Remote clock offset: -1.403 ms

# Below is generated by plot.py at 2019-03-08 23:35:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.77 Mbit/s  
95th percentile per-packet one-way delay: 36.269 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.77 Mbit/s  
95th percentile per-packet one-way delay: 36.269 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

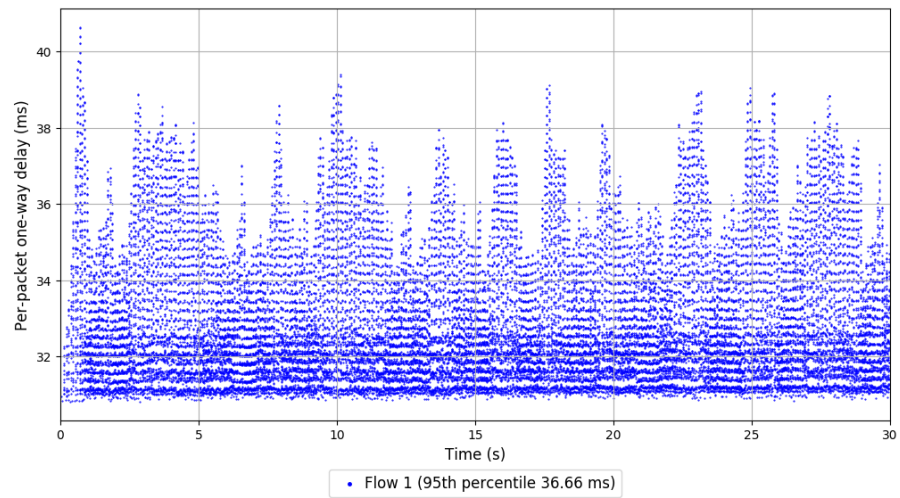
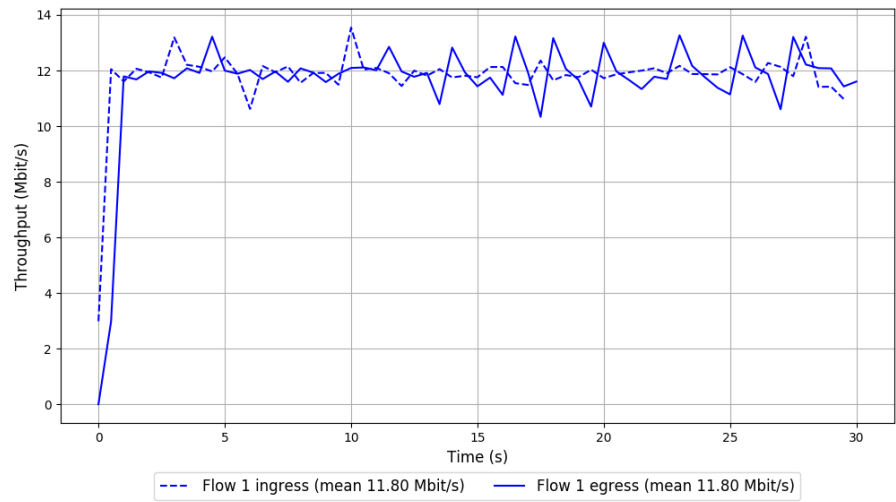


Run 4: Statistics of Sprout

Start at: 2019-03-08 22:59:13  
End at: 2019-03-08 22:59:43  
Local clock offset: 0.286 ms  
Remote clock offset: -1.148 ms

# Below is generated by plot.py at 2019-03-08 23:35:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.80 Mbit/s  
95th percentile per-packet one-way delay: 36.663 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.80 Mbit/s  
95th percentile per-packet one-way delay: 36.663 ms  
Loss rate: 0.00%

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



Run 5: Statistics of Sprout

Start at: 2019-03-08 23:24:22

End at: 2019-03-08 23:24:52

Local clock offset: 1.23 ms

Remote clock offset: -1.08 ms

# Below is generated by plot.py at 2019-03-08 23:35:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 36.792 ms

Loss rate: 0.08%

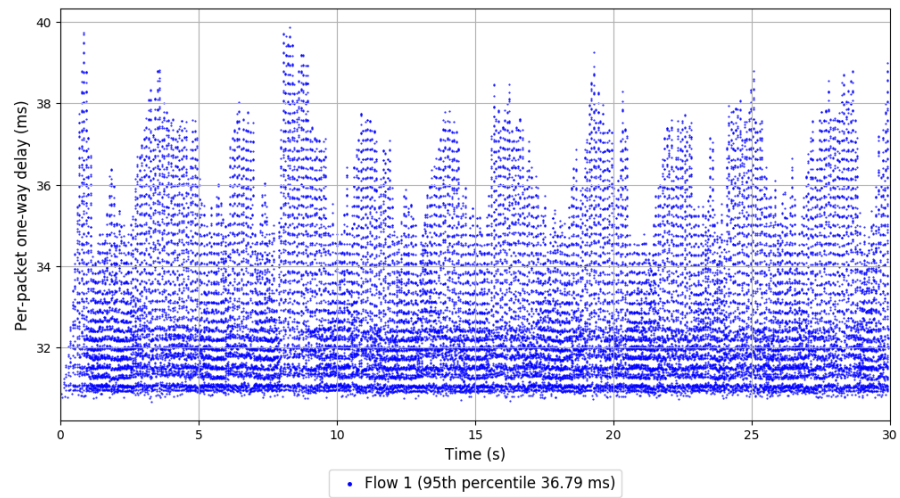
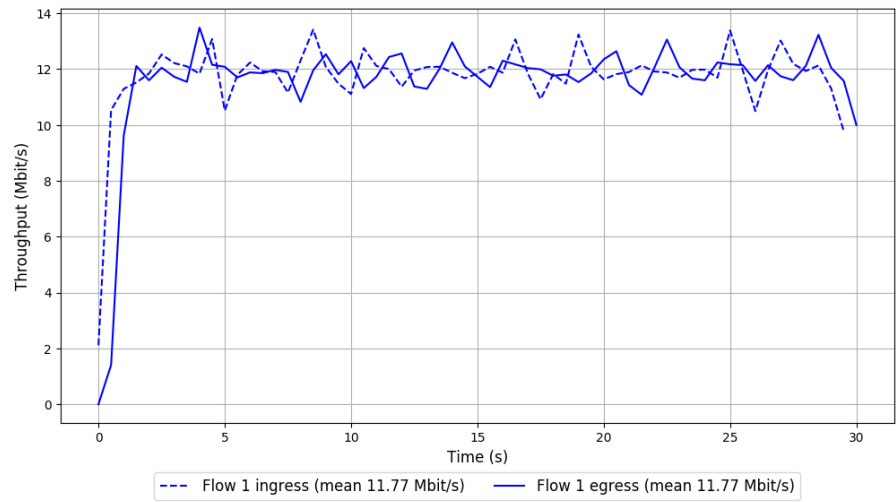
-- Flow 1:

Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 36.792 ms

Loss rate: 0.08%

## Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

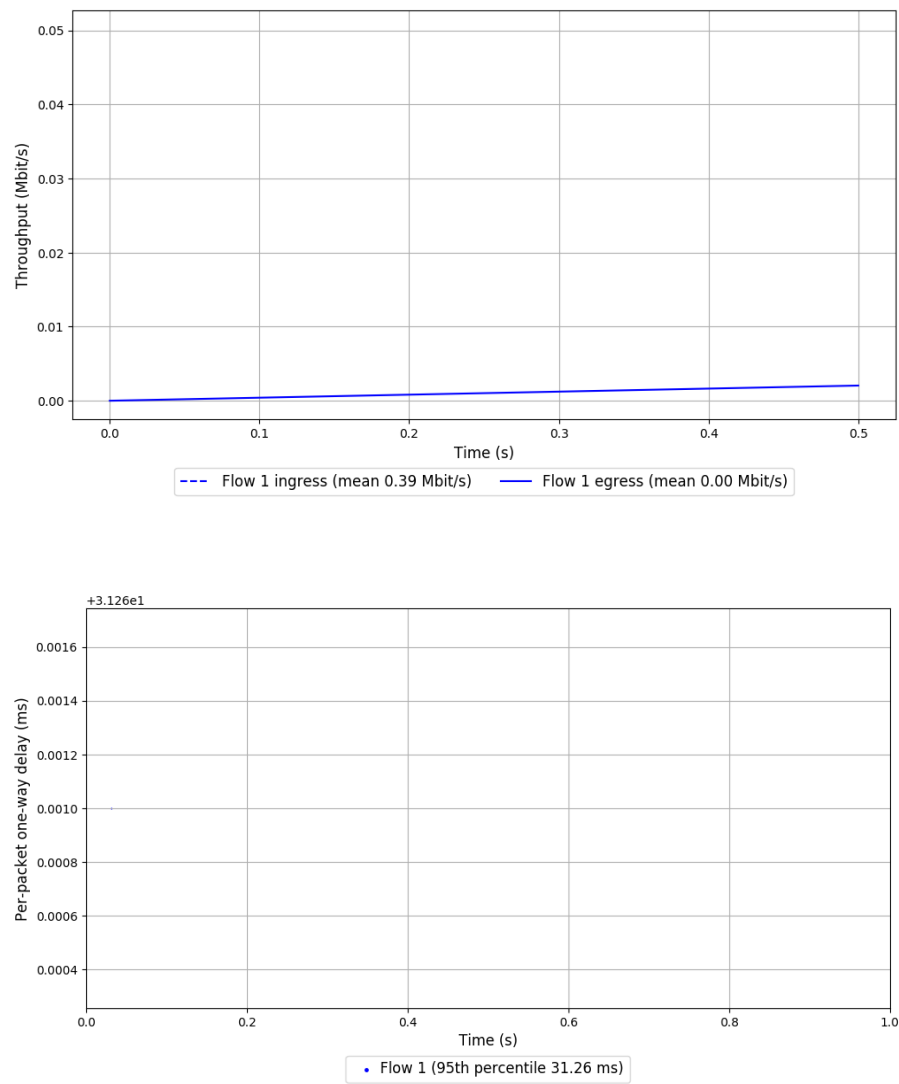
Start at: 2019-03-08 21:31:26

End at: 2019-03-08 21:31:56

Local clock offset: -0.396 ms

Remote clock offset: -3.111 ms

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



Run 2: Statistics of TaoVA-100x

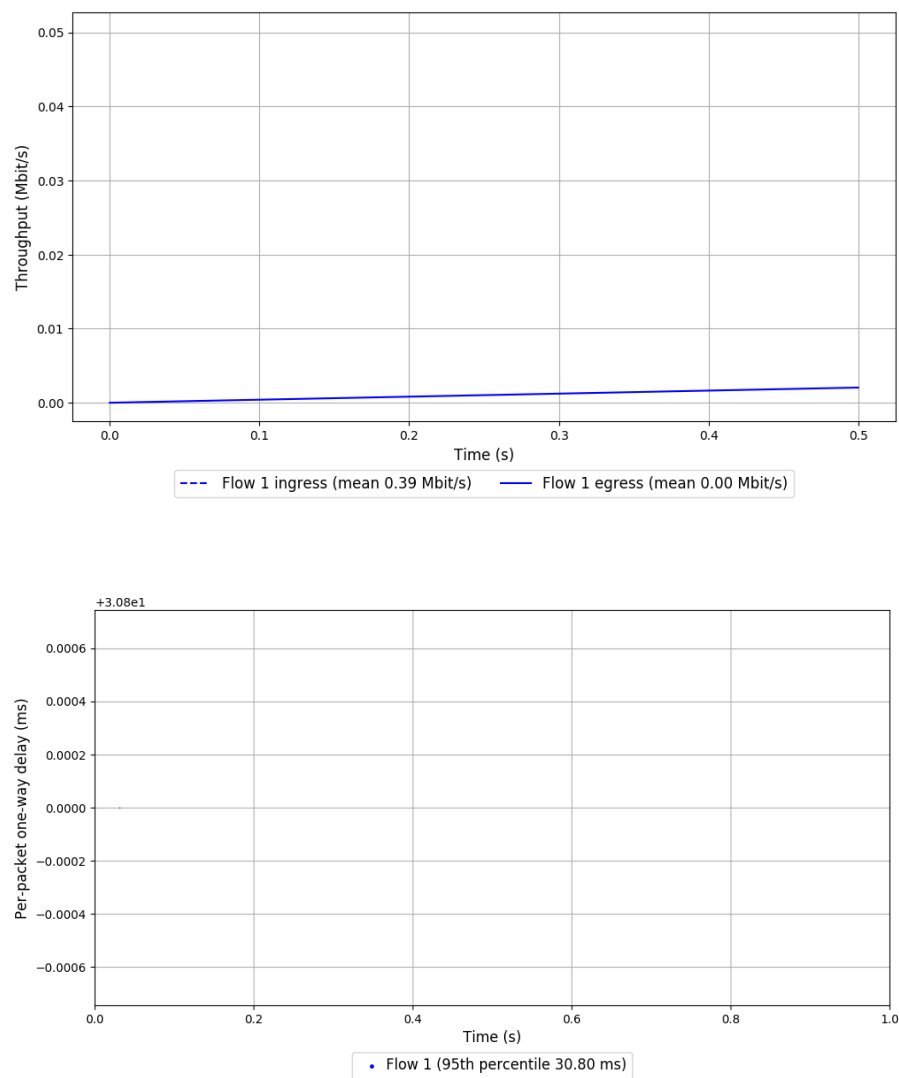
Start at: 2019-03-08 21:55:51

End at: 2019-03-08 21:56:21

Local clock offset: -2.293 ms

Remote clock offset: -2.35 ms

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



Run 3: Statistics of TaoVA-100x

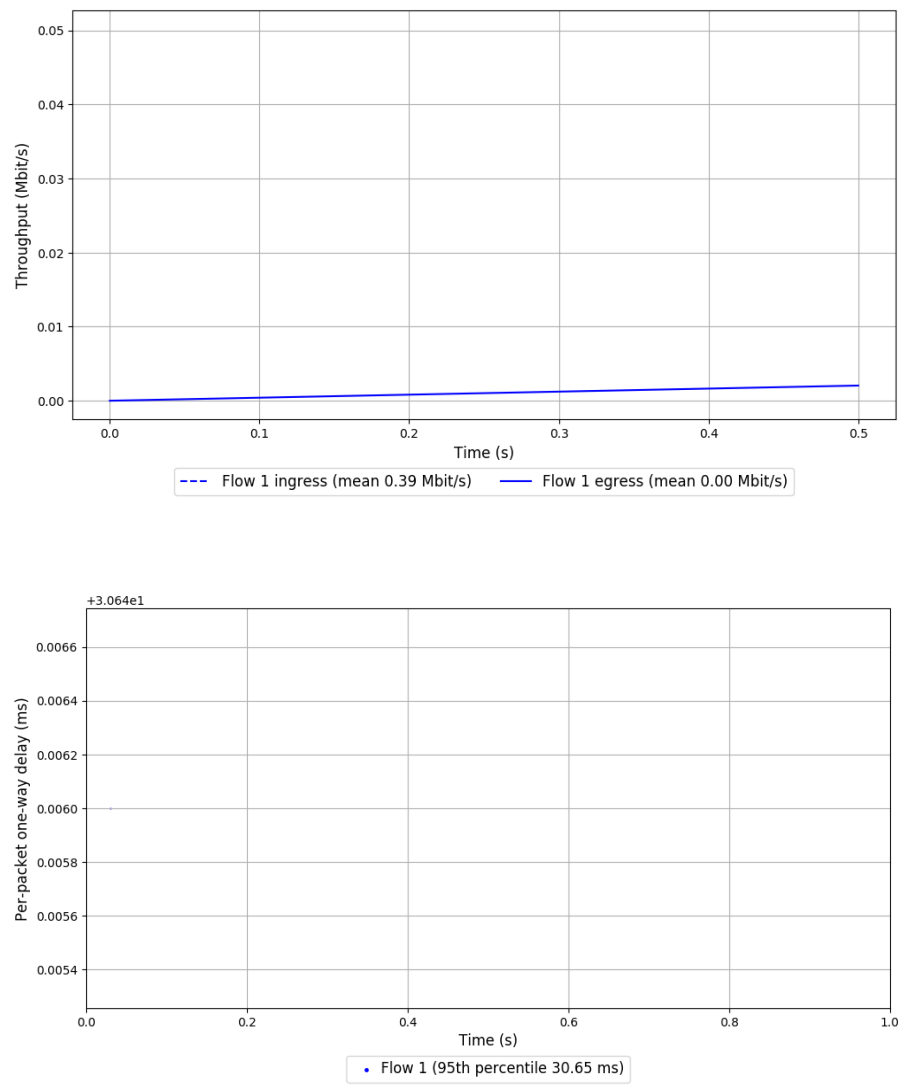
Start at: 2019-03-08 22:20:53

End at: 2019-03-08 22:21:23

Local clock offset: -3.77 ms

Remote clock offset: -1.967 ms

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



Run 4: Statistics of TaoVA-100x

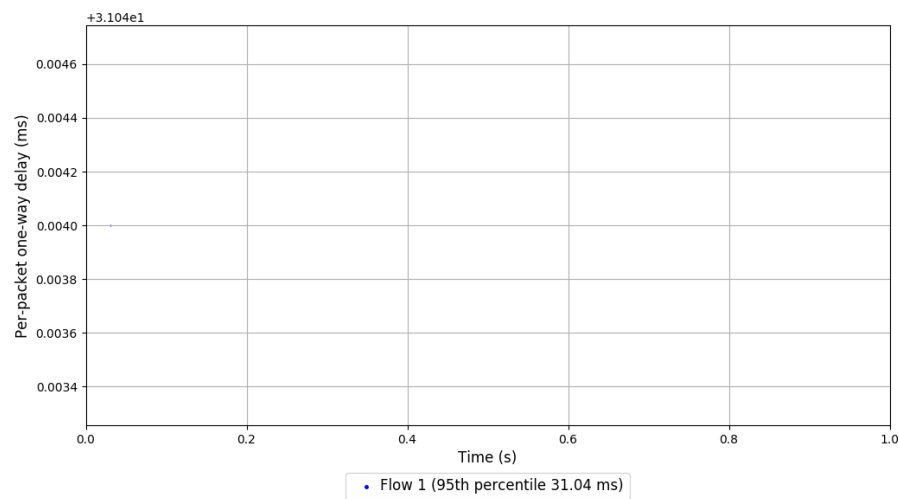
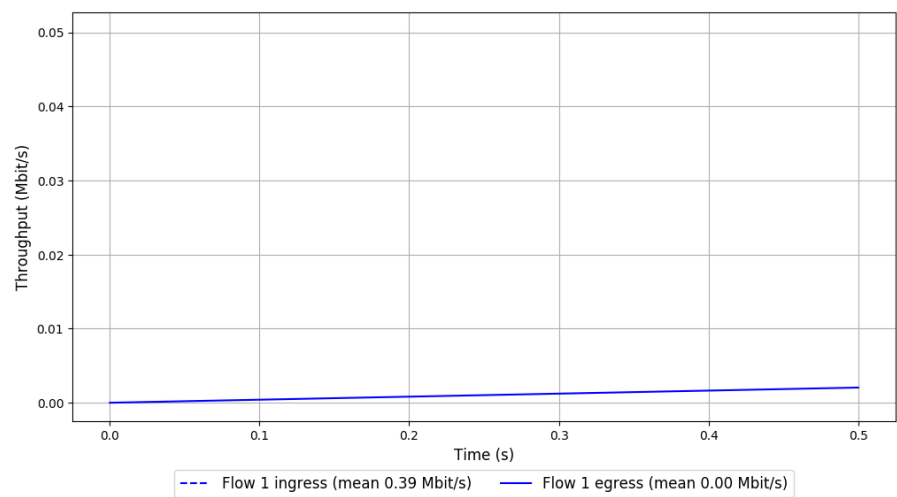
Start at: 2019-03-08 22:47:02

End at: 2019-03-08 22:47:32

Local clock offset: -3.305 ms

Remote clock offset: -1.214 ms

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





Run 5: Statistics of TaoVA-100x

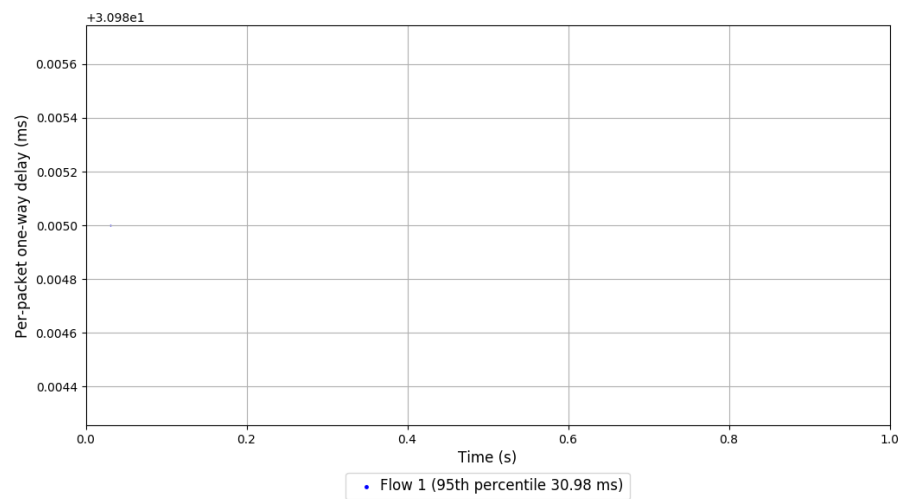
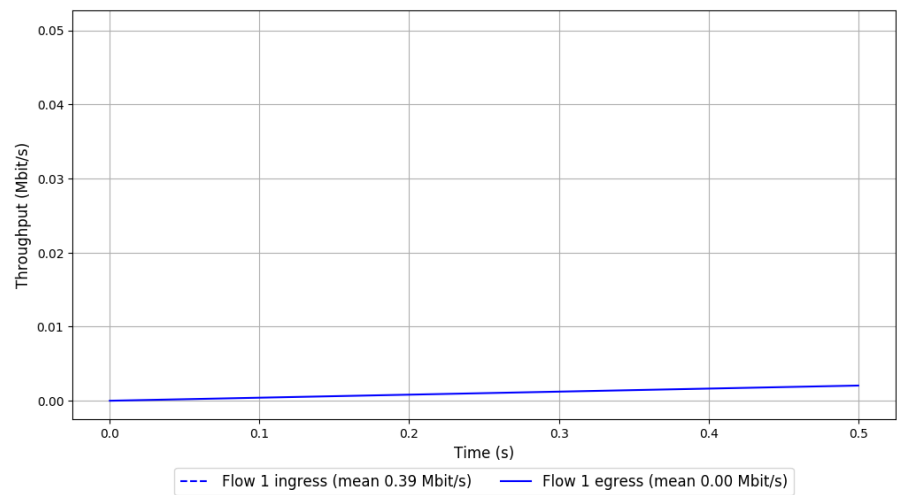
Start at: 2019-03-08 23:12:40

End at: 2019-03-08 23:13:10

Local clock offset: 1.76 ms

Remote clock offset: -1.172 ms

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

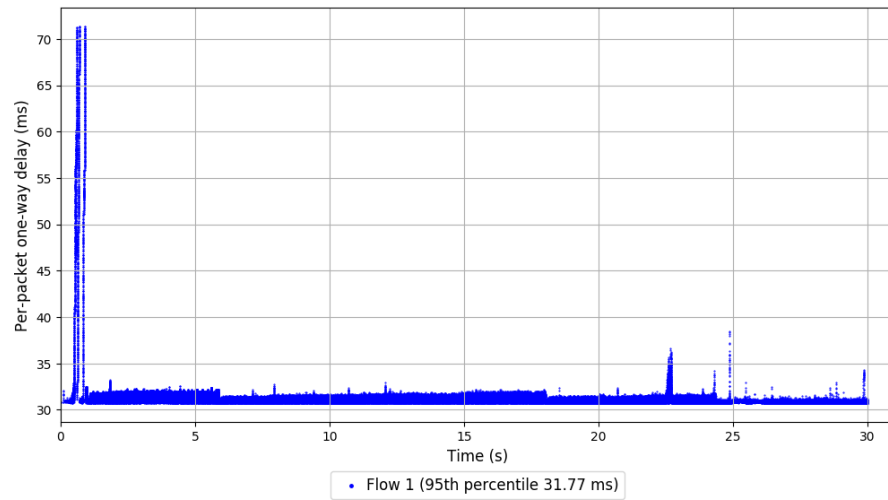
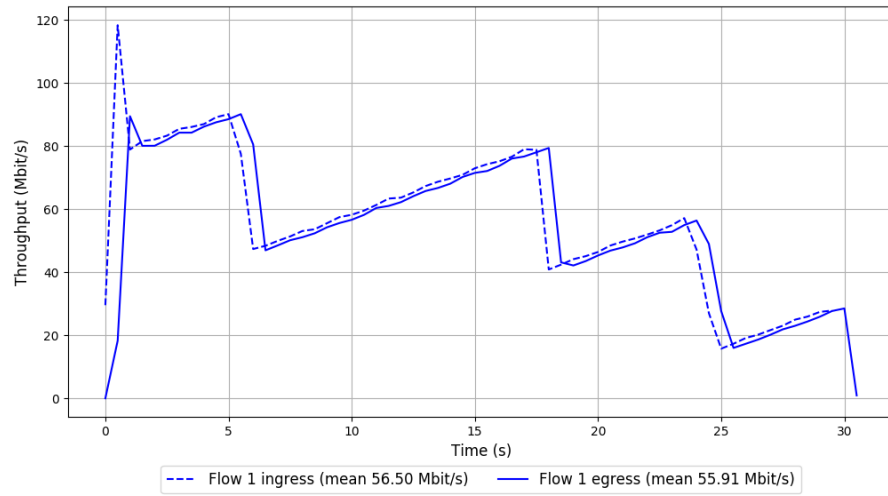


Run 1: Statistics of TCP Vegas

Start at: 2019-03-08 21:29:07  
End at: 2019-03-08 21:29:37  
Local clock offset: -0.371 ms  
Remote clock offset: -3.126 ms

# Below is generated by plot.py at 2019-03-08 23:35:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 55.91 Mbit/s  
95th percentile per-packet one-way delay: 31.772 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 55.91 Mbit/s  
95th percentile per-packet one-way delay: 31.772 ms  
Loss rate: 1.04%

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

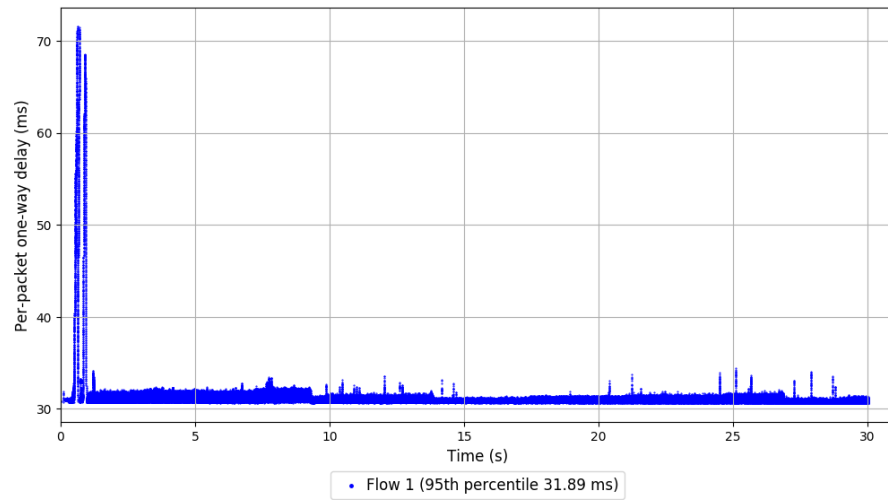
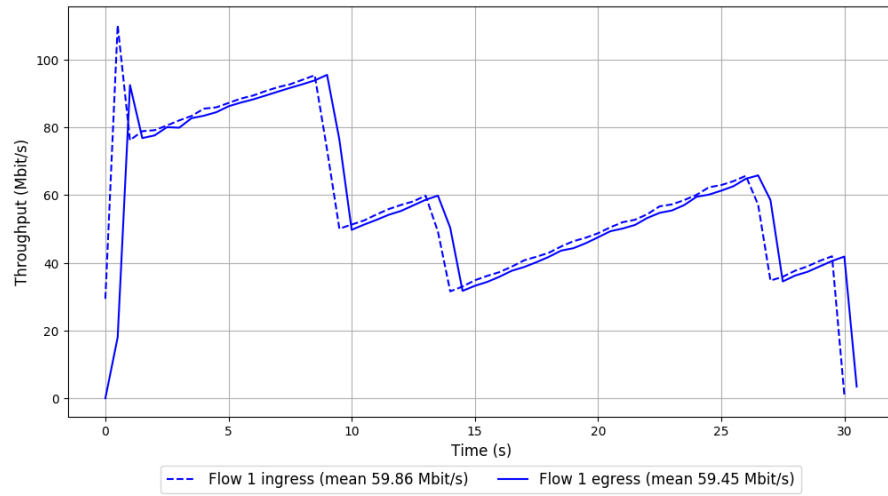


Run 2: Statistics of TCP Vegas

Start at: 2019-03-08 21:53:32  
End at: 2019-03-08 21:54:02  
Local clock offset: -2.043 ms  
Remote clock offset: -2.404 ms

# Below is generated by plot.py at 2019-03-08 23:35:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 59.45 Mbit/s  
95th percentile per-packet one-way delay: 31.888 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 59.45 Mbit/s  
95th percentile per-packet one-way delay: 31.888 ms  
Loss rate: 0.68%

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

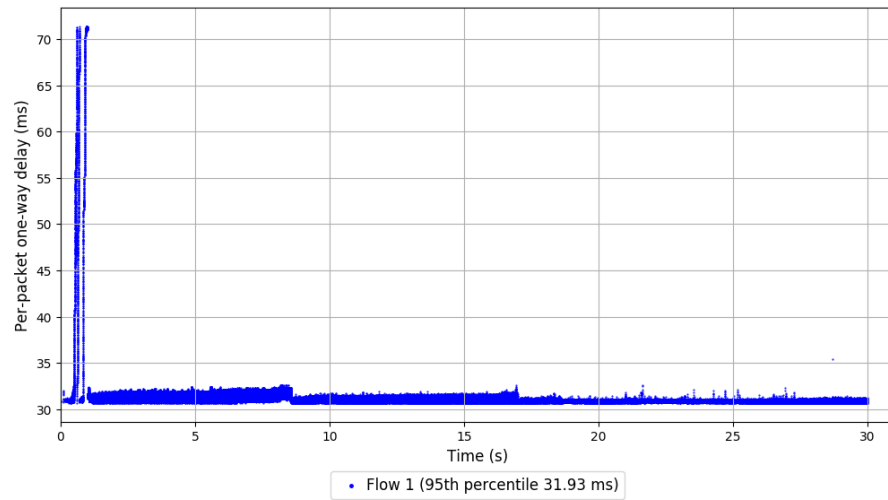
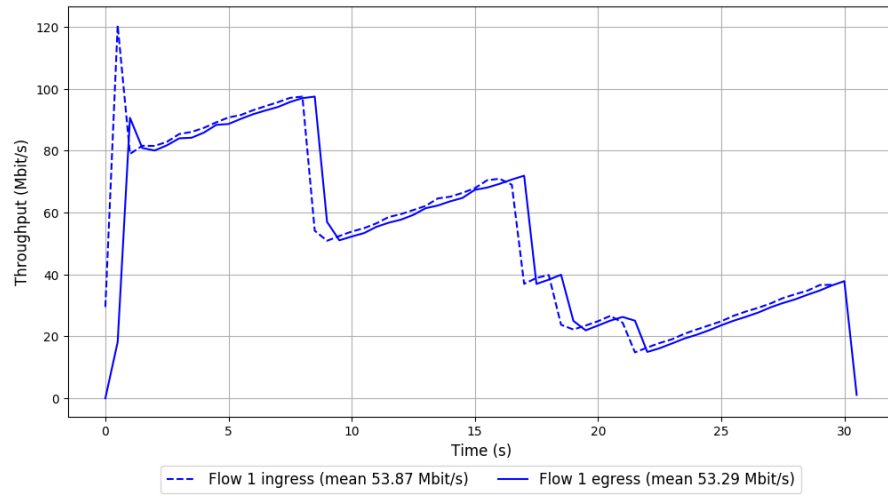


Run 3: Statistics of TCP Vegas

Start at: 2019-03-08 22:18:31  
End at: 2019-03-08 22:19:01  
Local clock offset: -3.669 ms  
Remote clock offset: -1.769 ms

# Below is generated by plot.py at 2019-03-08 23:35:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 53.29 Mbit/s  
95th percentile per-packet one-way delay: 31.931 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 53.29 Mbit/s  
95th percentile per-packet one-way delay: 31.931 ms  
Loss rate: 1.09%

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



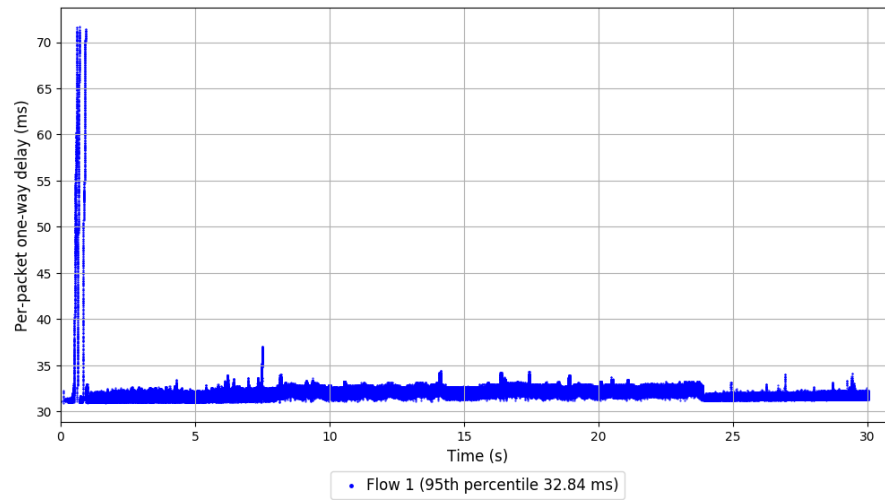
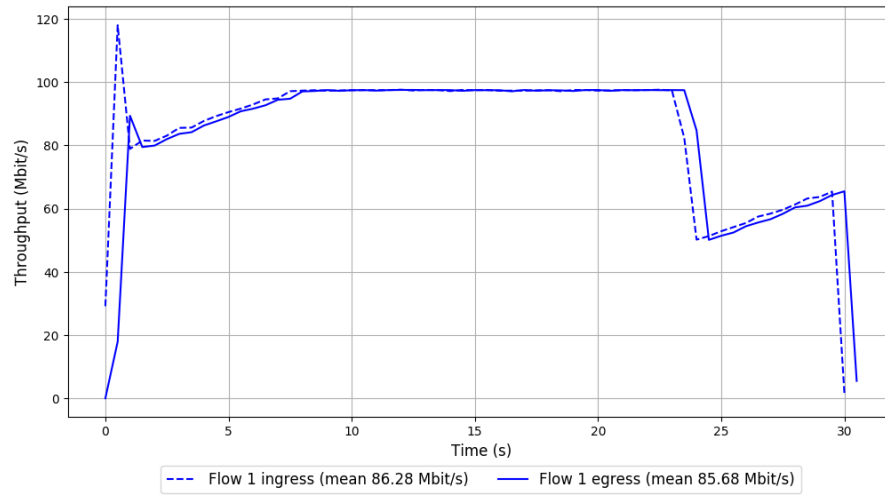


Run 4: Statistics of TCP Vegas

Start at: 2019-03-08 22:44:38  
End at: 2019-03-08 22:45:08  
Local clock offset: -4.725 ms  
Remote clock offset: -1.263 ms

# Below is generated by plot.py at 2019-03-08 23:36:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.68 Mbit/s  
95th percentile per-packet one-way delay: 32.841 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 85.68 Mbit/s  
95th percentile per-packet one-way delay: 32.841 ms  
Loss rate: 0.69%

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

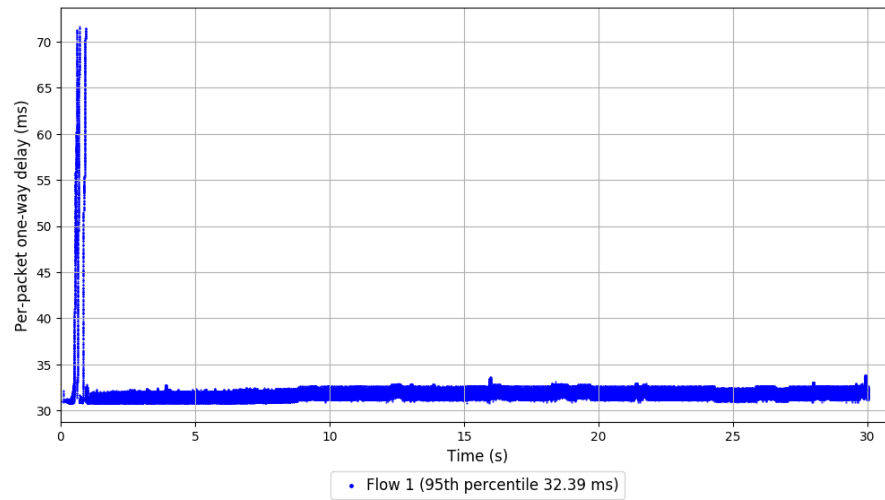
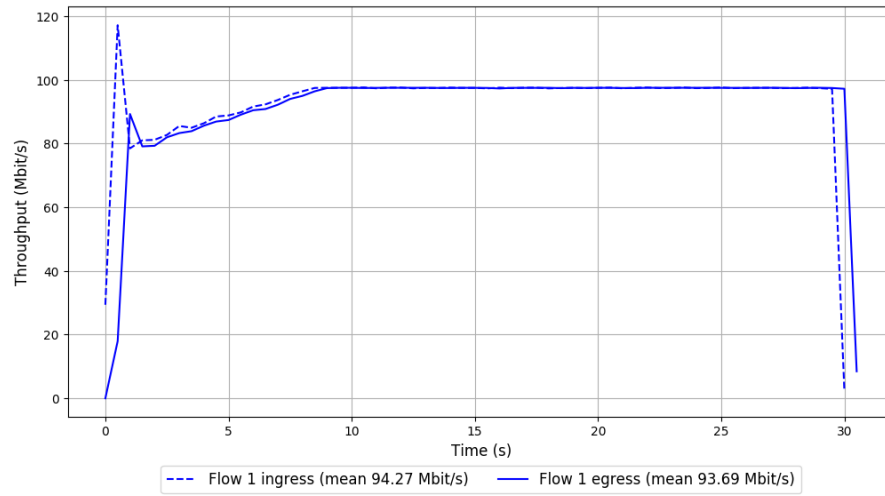


Run 5: Statistics of TCP Vegas

Start at: 2019-03-08 23:10:19  
End at: 2019-03-08 23:10:49  
Local clock offset: 1.573 ms  
Remote clock offset: -1.173 ms

# Below is generated by plot.py at 2019-03-08 23:36:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.69 Mbit/s  
95th percentile per-packet one-way delay: 32.390 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 93.69 Mbit/s  
95th percentile per-packet one-way delay: 32.390 ms  
Loss rate: 0.61%

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

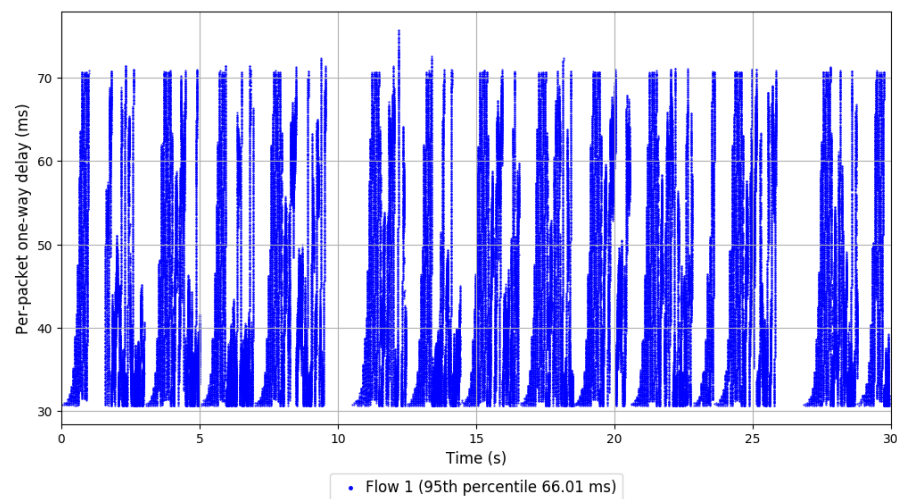
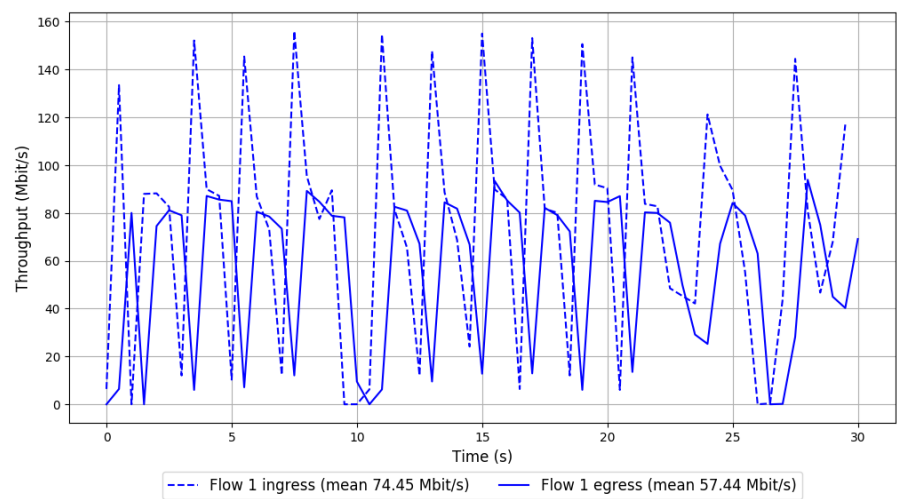


Run 1: Statistics of Verus

Start at: 2019-03-08 21:32:32  
End at: 2019-03-08 21:33:02  
Local clock offset: -0.424 ms  
Remote clock offset: -3.095 ms

# Below is generated by plot.py at 2019-03-08 23:36:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.44 Mbit/s  
95th percentile per-packet one-way delay: 66.010 ms  
Loss rate: 22.85%  
-- Flow 1:  
Average throughput: 57.44 Mbit/s  
95th percentile per-packet one-way delay: 66.010 ms  
Loss rate: 22.85%

Run 1: Report of Verus — Data Link

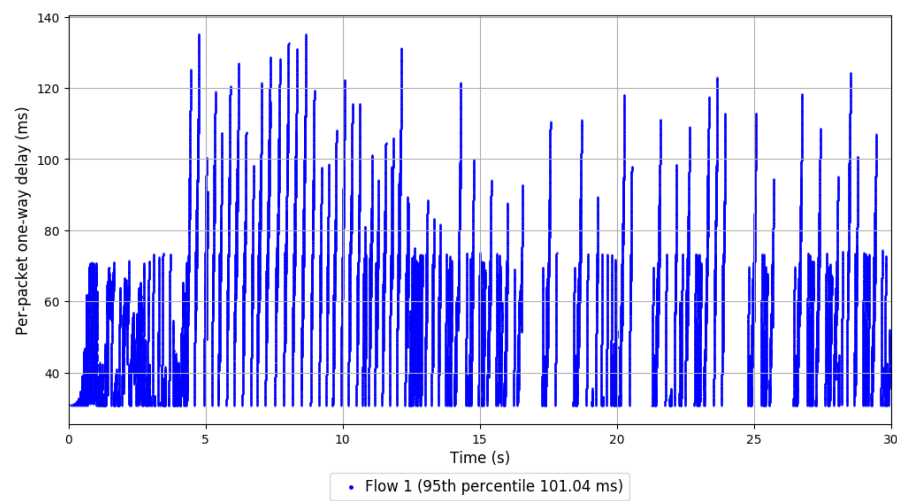
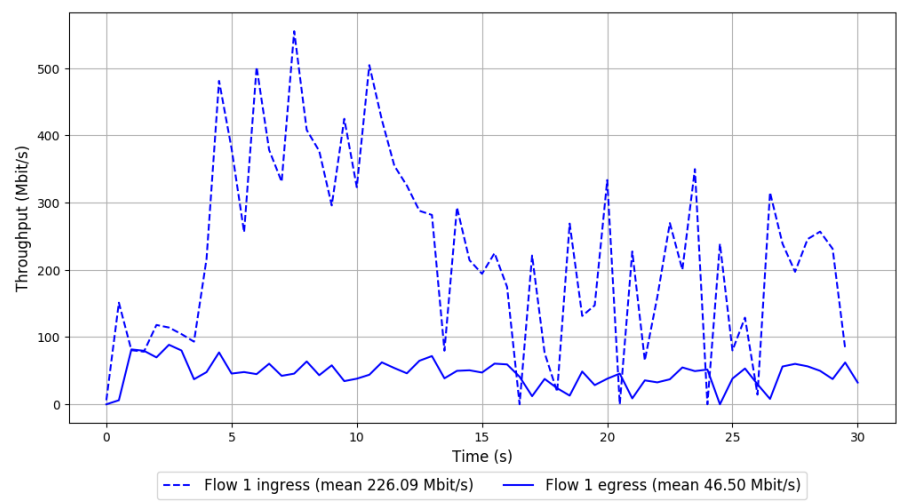


Run 2: Statistics of Verus

Start at: 2019-03-08 21:56:57  
End at: 2019-03-08 21:57:27  
Local clock offset: -2.383 ms  
Remote clock offset: -2.274 ms

# Below is generated by plot.py at 2019-03-08 23:36:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.50 Mbit/s  
95th percentile per-packet one-way delay: 101.037 ms  
Loss rate: 79.42%  
-- Flow 1:  
Average throughput: 46.50 Mbit/s  
95th percentile per-packet one-way delay: 101.037 ms  
Loss rate: 79.42%

Run 2: Report of Verus — Data Link



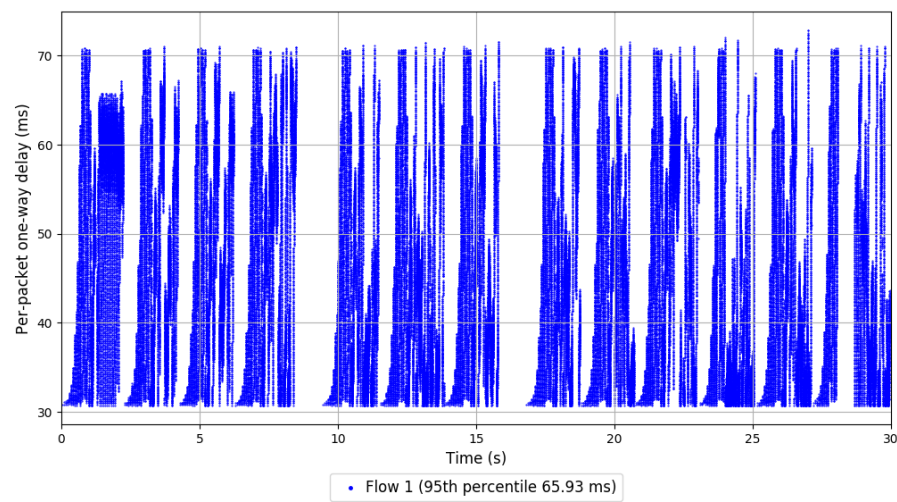
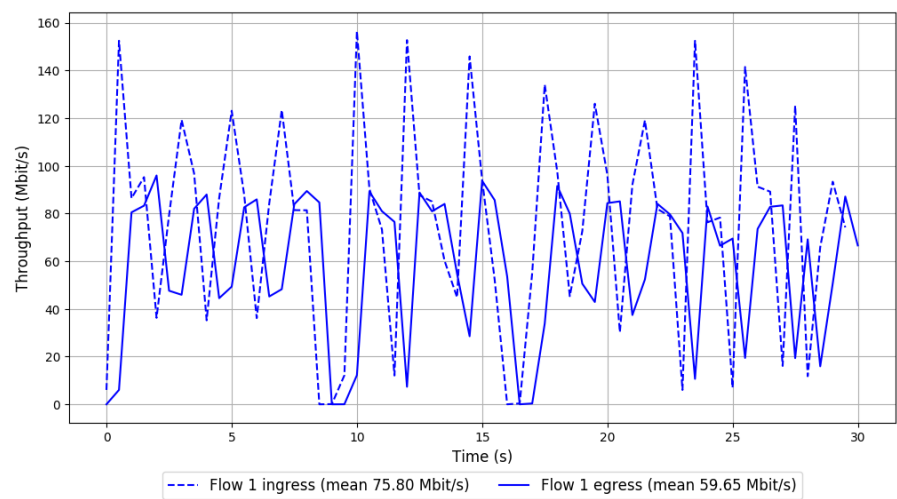


Run 3: Statistics of Verus

Start at: 2019-03-08 22:21:59  
End at: 2019-03-08 22:22:29  
Local clock offset: -3.813 ms  
Remote clock offset: -1.757 ms

# Below is generated by plot.py at 2019-03-08 23:36:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 59.65 Mbit/s  
95th percentile per-packet one-way delay: 65.934 ms  
Loss rate: 21.27%  
-- Flow 1:  
Average throughput: 59.65 Mbit/s  
95th percentile per-packet one-way delay: 65.934 ms  
Loss rate: 21.27%

Run 3: Report of Verus — Data Link

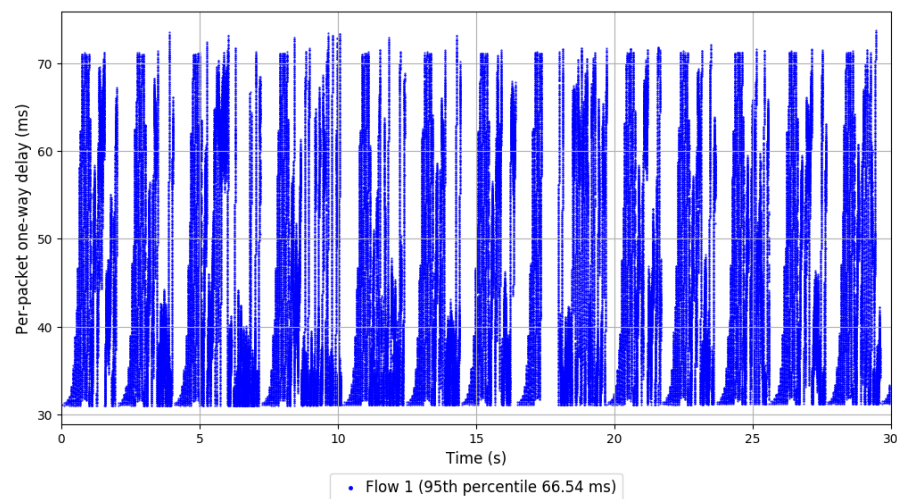
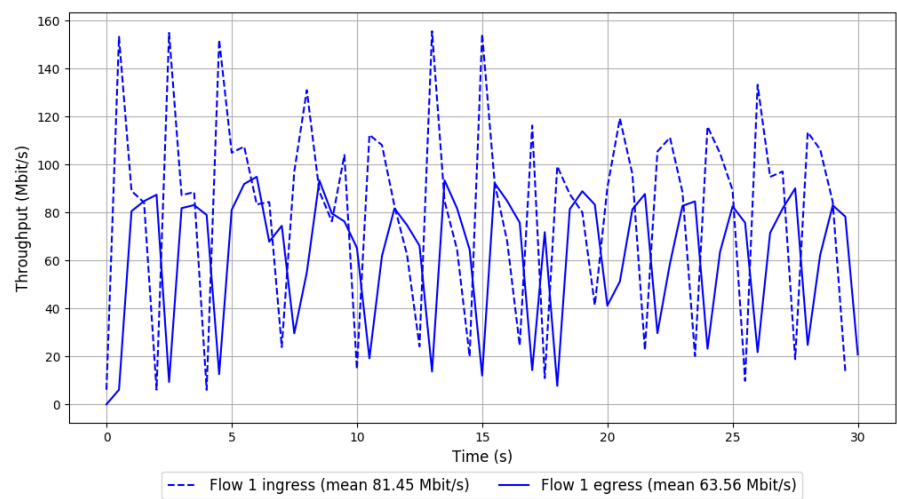


Run 4: Statistics of Verus

Start at: 2019-03-08 22:48:08  
End at: 2019-03-08 22:48:38  
Local clock offset: -2.829 ms  
Remote clock offset: -1.156 ms

# Below is generated by plot.py at 2019-03-08 23:36:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.56 Mbit/s  
95th percentile per-packet one-way delay: 66.539 ms  
Loss rate: 21.95%  
-- Flow 1:  
Average throughput: 63.56 Mbit/s  
95th percentile per-packet one-way delay: 66.539 ms  
Loss rate: 21.95%

Run 4: Report of Verus — Data Link

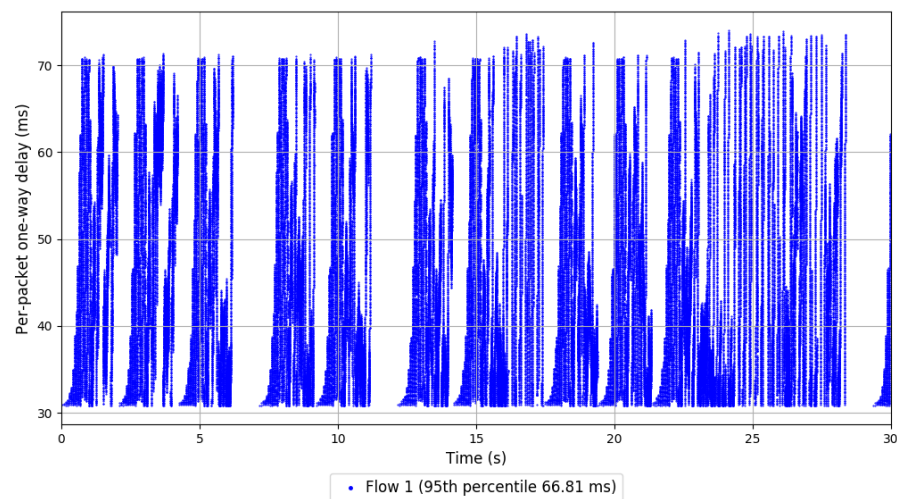
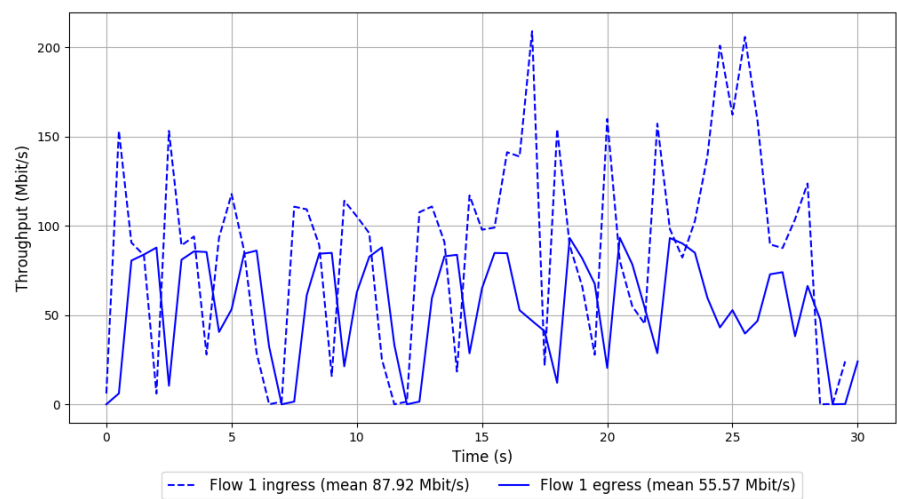


Run 5: Statistics of Verus

Start at: 2019-03-08 23:13:46  
End at: 2019-03-08 23:14:16  
Local clock offset: 1.848 ms  
Remote clock offset: -1.128 ms

# Below is generated by plot.py at 2019-03-08 23:36:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 55.57 Mbit/s  
95th percentile per-packet one-way delay: 66.805 ms  
Loss rate: 36.73%  
-- Flow 1:  
Average throughput: 55.57 Mbit/s  
95th percentile per-packet one-way delay: 66.805 ms  
Loss rate: 36.73%

Run 5: Report of Verus — Data Link

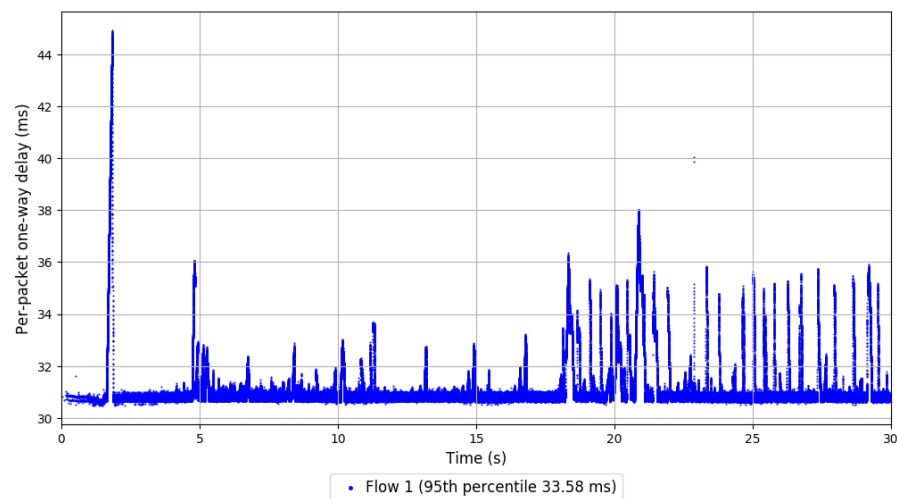
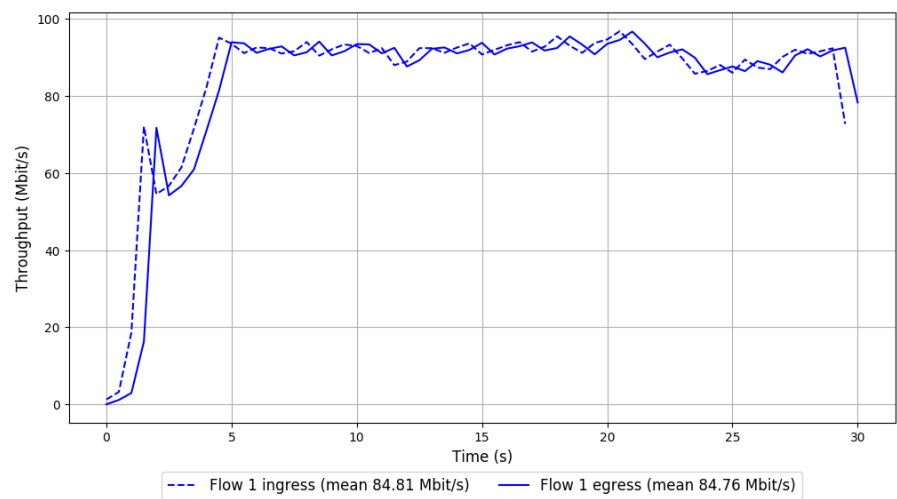


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-08 21:27:56  
End at: 2019-03-08 21:28:26  
Local clock offset: -0.333 ms  
Remote clock offset: -3.236 ms

# Below is generated by plot.py at 2019-03-08 23:37:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.76 Mbit/s  
95th percentile per-packet one-way delay: 33.582 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 84.76 Mbit/s  
95th percentile per-packet one-way delay: 33.582 ms  
Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link



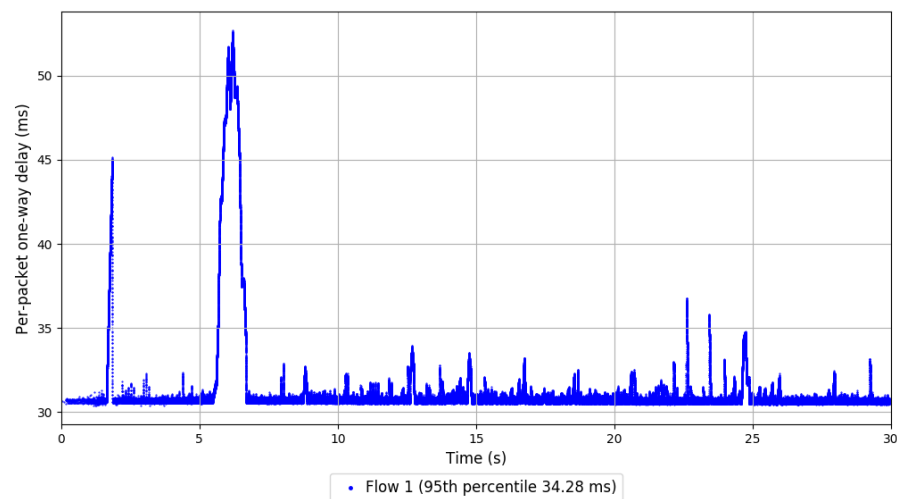
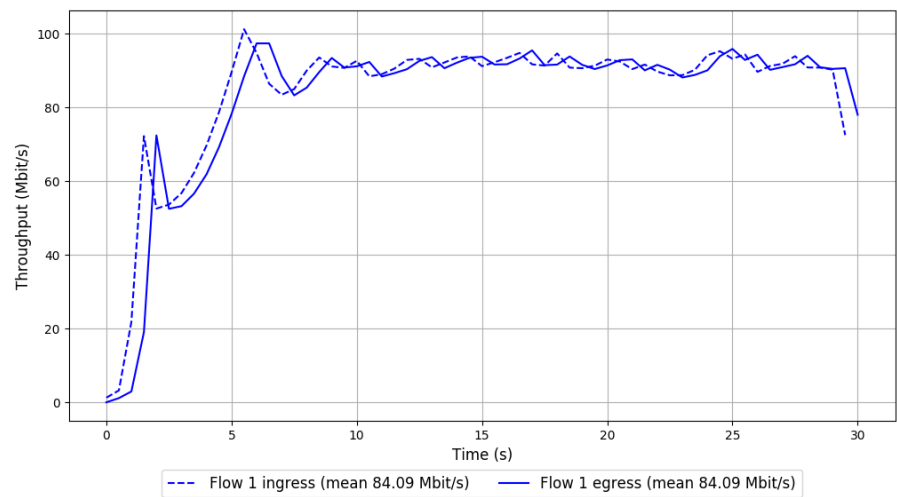


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-08 21:52:21  
End at: 2019-03-08 21:52:51  
Local clock offset: -1.932 ms  
Remote clock offset: -2.638 ms

# Below is generated by plot.py at 2019-03-08 23:37:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.09 Mbit/s  
95th percentile per-packet one-way delay: 34.284 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 84.09 Mbit/s  
95th percentile per-packet one-way delay: 34.284 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

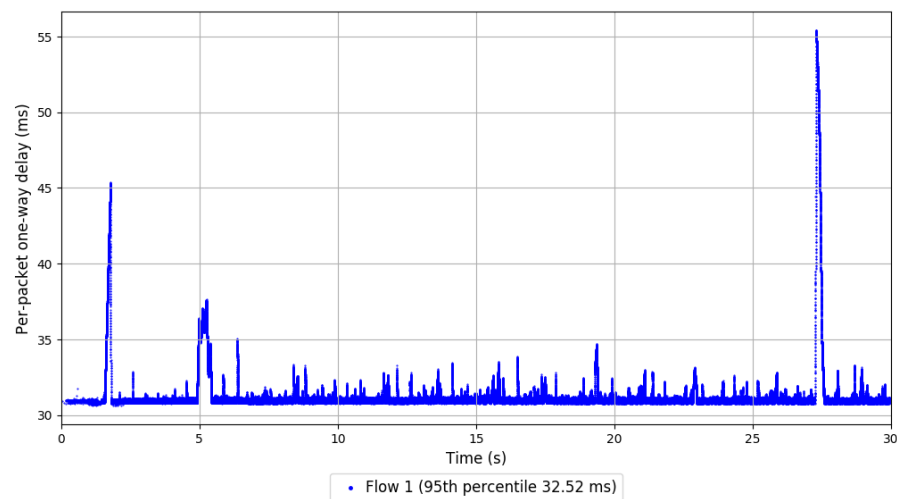
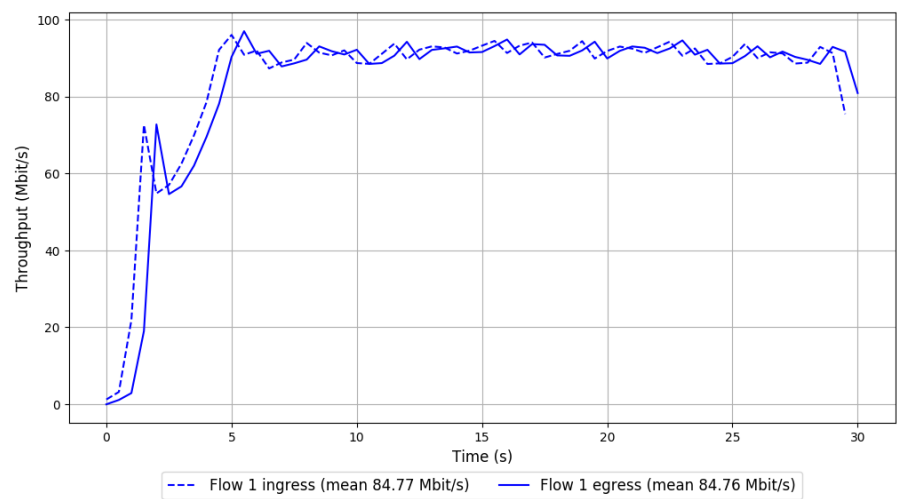


Run 3: Statistics of PCC-Vivace

Start at: 2019-03-08 22:17:16  
End at: 2019-03-08 22:17:46  
Local clock offset: -3.612 ms  
Remote clock offset: -1.792 ms

# Below is generated by plot.py at 2019-03-08 23:37:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.76 Mbit/s  
95th percentile per-packet one-way delay: 32.522 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 84.76 Mbit/s  
95th percentile per-packet one-way delay: 32.522 ms  
Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-08 22:43:21

End at: 2019-03-08 22:43:51

Local clock offset: -4.885 ms

Remote clock offset: -1.26 ms

# Below is generated by plot.py at 2019-03-08 23:37:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 34.182 ms

Loss rate: 0.00%

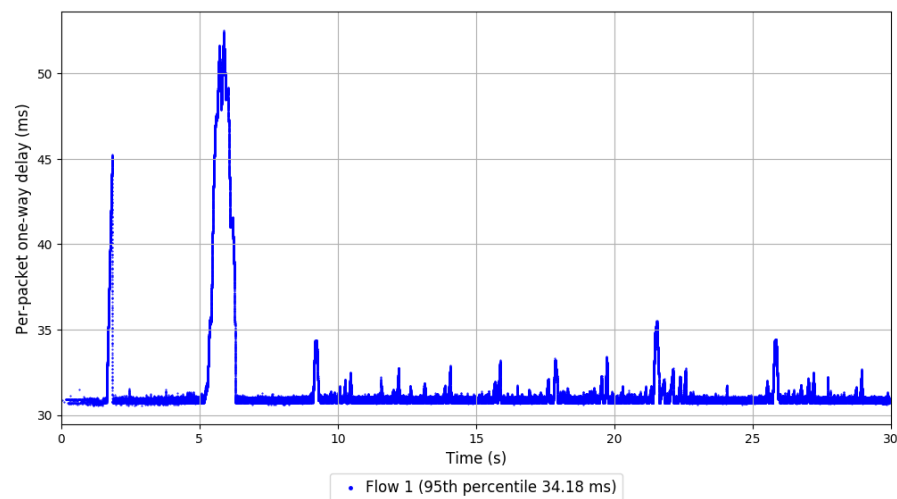
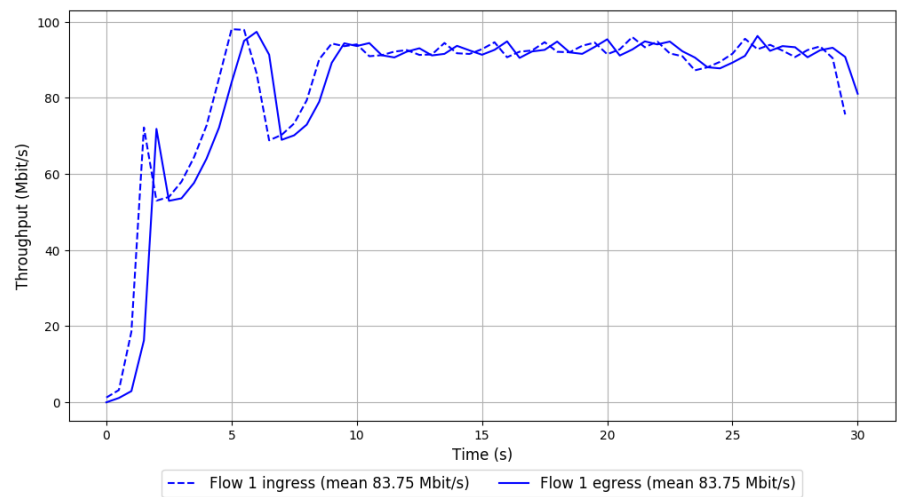
-- Flow 1:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 34.182 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-08 23:09:05

End at: 2019-03-08 23:09:35

Local clock offset: 1.476 ms

Remote clock offset: -1.221 ms

# Below is generated by plot.py at 2019-03-08 23:37:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.85 Mbit/s

95th percentile per-packet one-way delay: 35.521 ms

Loss rate: 0.00%

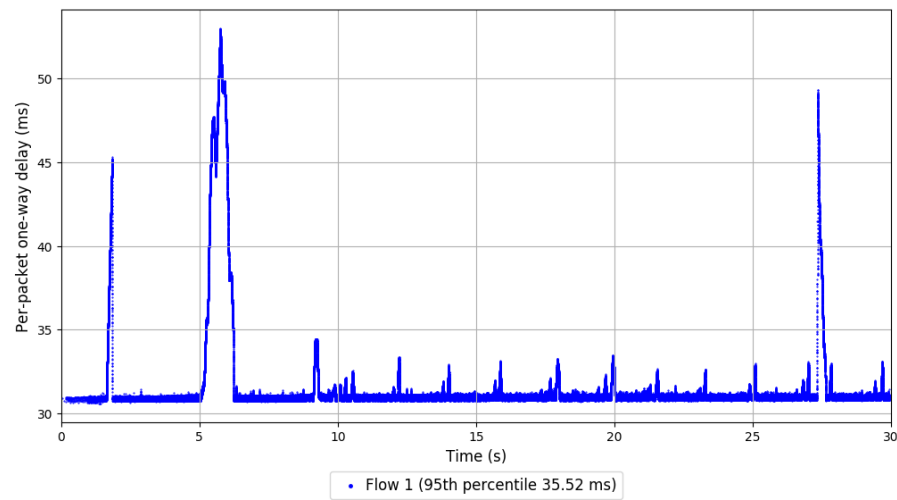
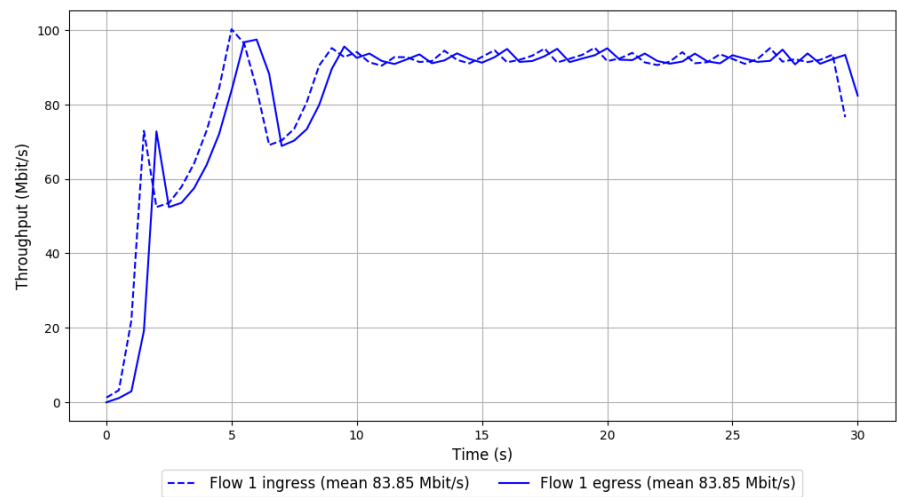
-- Flow 1:

Average throughput: 83.85 Mbit/s

95th percentile per-packet one-way delay: 35.521 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



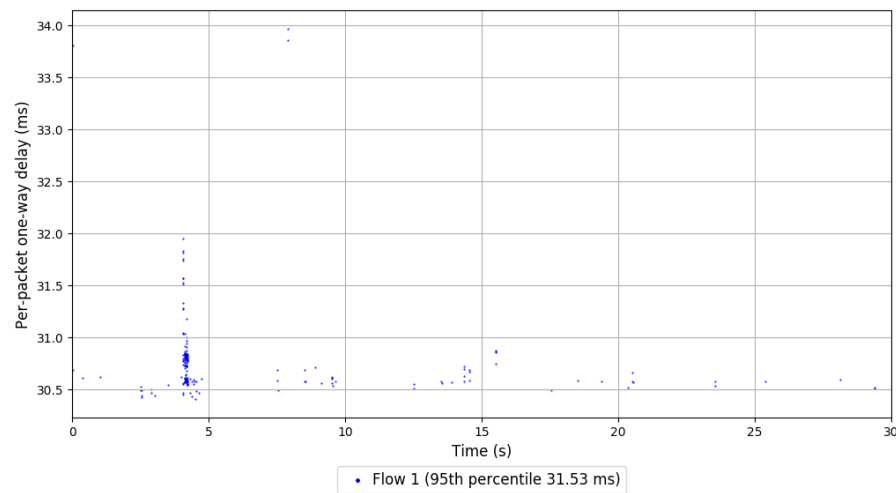
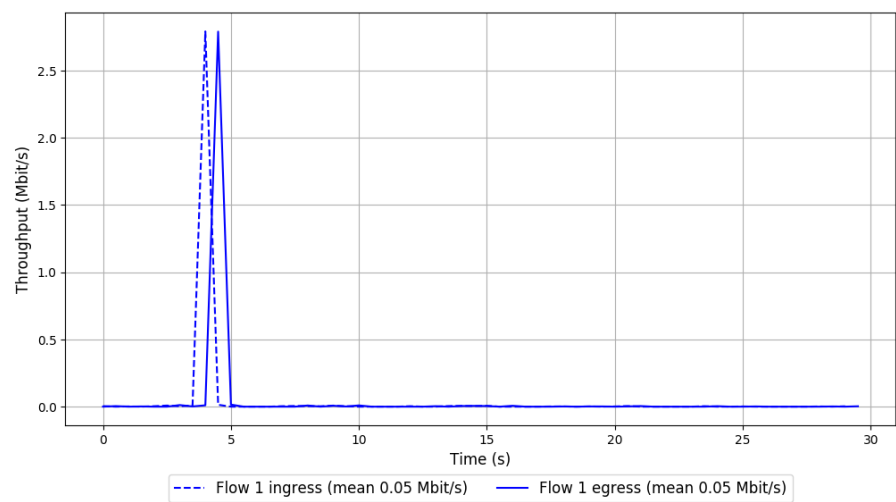


Run 1: Statistics of WebRTC media

Start at: 2019-03-08 21:34:52  
End at: 2019-03-08 21:35:22  
Local clock offset: -0.436 ms  
Remote clock offset: -3.171 ms

# Below is generated by plot.py at 2019-03-08 23:37:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.526 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.526 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

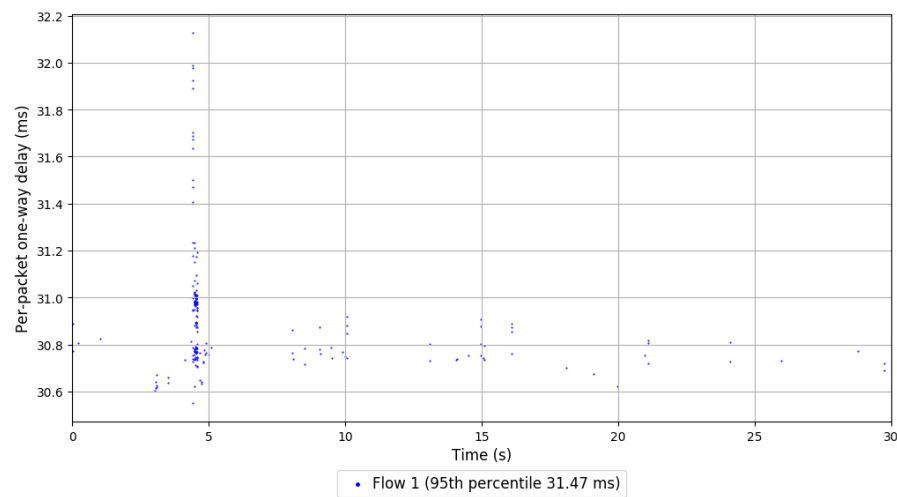
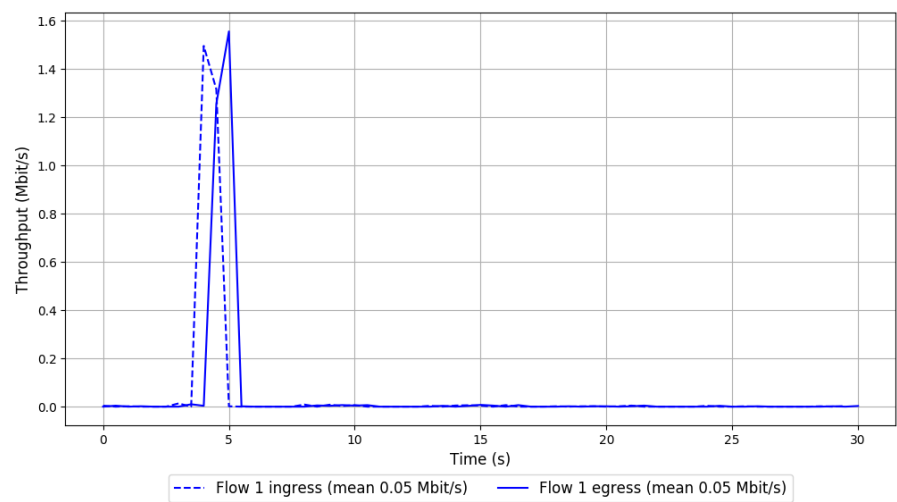


Run 2: Statistics of WebRTC media

Start at: 2019-03-08 21:59:18  
End at: 2019-03-08 21:59:48  
Local clock offset: -2.573 ms  
Remote clock offset: -2.215 ms

# Below is generated by plot.py at 2019-03-08 23:37:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.470 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.470 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

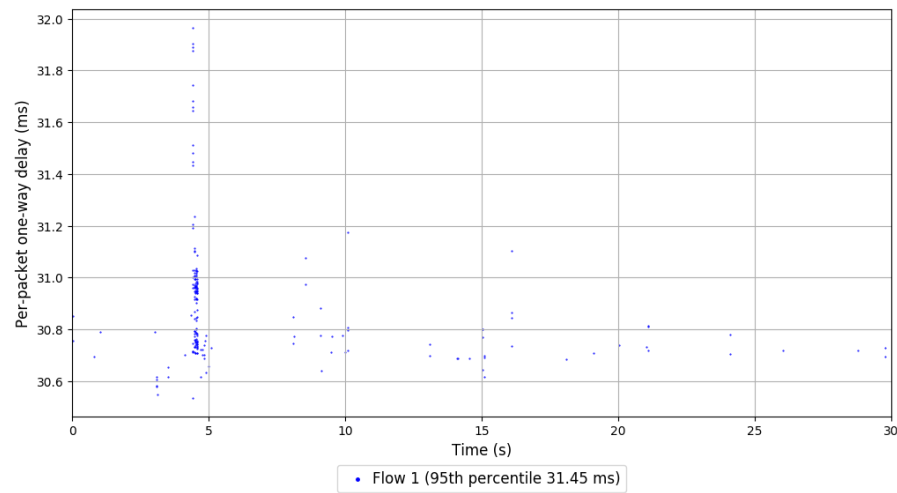
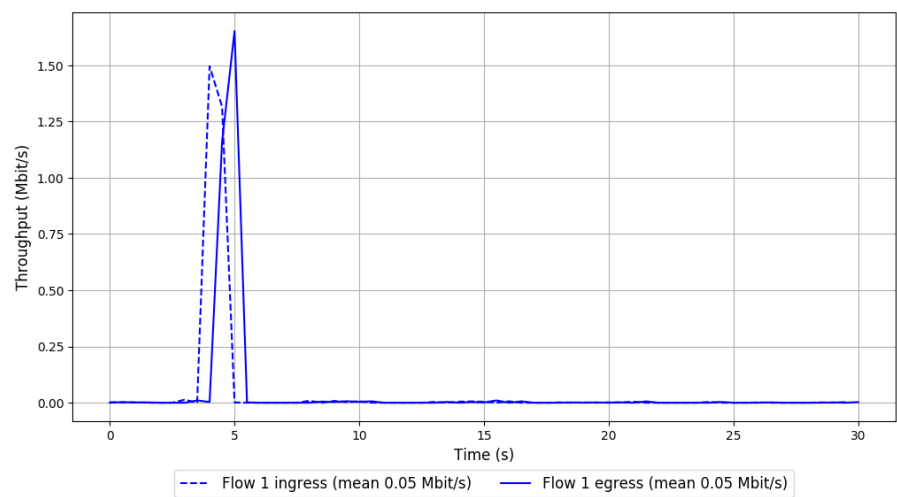


Run 3: Statistics of WebRTC media

Start at: 2019-03-08 22:24:31  
End at: 2019-03-08 22:25:01  
Local clock offset: -3.957 ms  
Remote clock offset: -1.663 ms

# Below is generated by plot.py at 2019-03-08 23:37:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.449 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.449 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

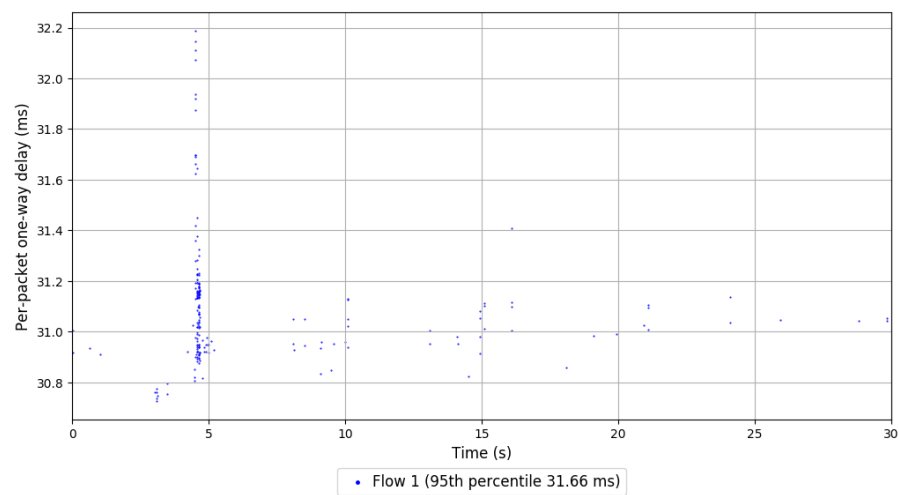
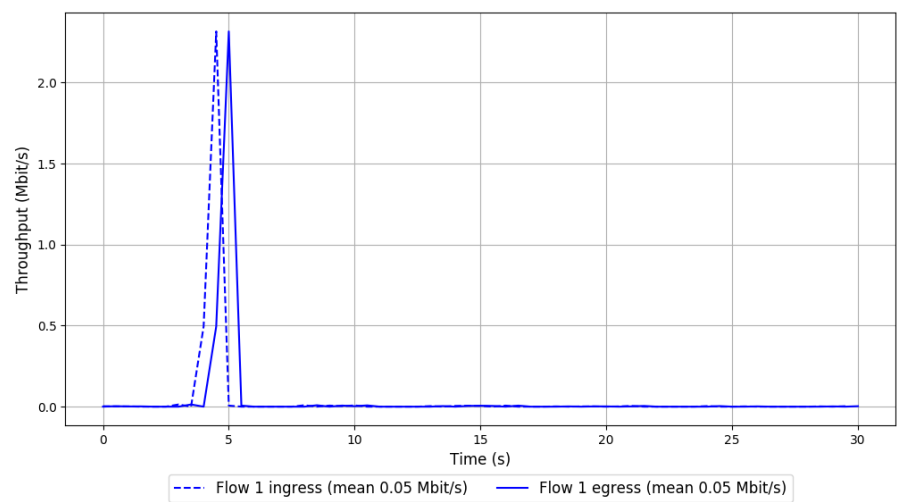


Run 4: Statistics of WebRTC media

Start at: 2019-03-08 22:50:38  
End at: 2019-03-08 22:51:08  
Local clock offset: -1.781 ms  
Remote clock offset: -1.149 ms

# Below is generated by plot.py at 2019-03-08 23:37:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.664 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.664 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-03-08 23:16:07  
End at: 2019-03-08 23:16:37  
Local clock offset: 1.685 ms  
Remote clock offset: -1.354 ms

# Below is generated by plot.py at 2019-03-08 23:37:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.251 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 31.251 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

