

## Pantheon Report

Generated at 2019-01-25 13:03:16 (UTC).

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

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:

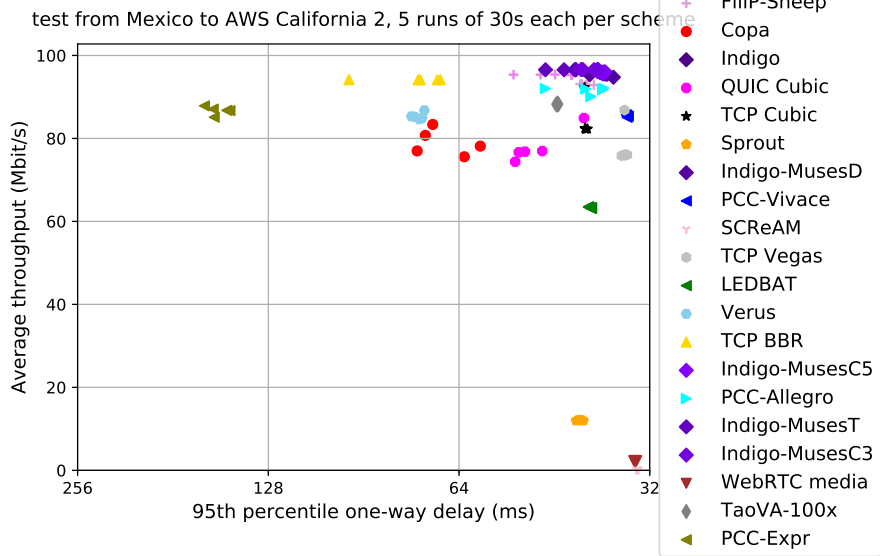
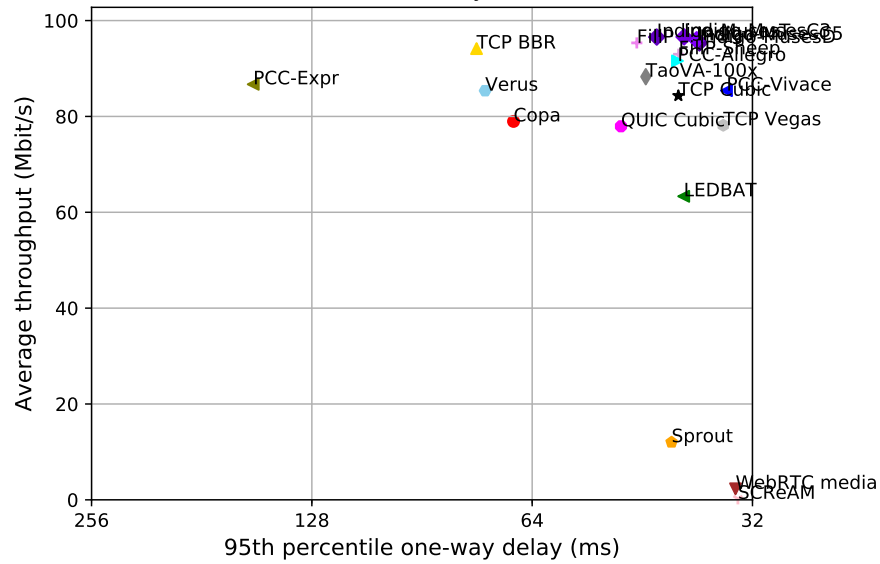
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 0b8e9a949603c3842368430acf469eec3b941f9f
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ d9c5ea33091330aca25ecd105ab2db6d34d5c40d
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-quic @ 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 Mexico to AWS California 2, 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	94.16	76.24	1.11
Copa	5	78.96	67.86	0.24
TCP Cubic	5	84.31	40.40	0.26
FillP	5	95.34	46.05	0.24
FillP-Sheep	5	92.97	40.37	0.23
Indigo	5	95.86	38.06	0.23
Indigo-MusesC3	5	96.60	39.68	0.24
Indigo-MusesC5	5	95.99	38.16	0.24
Indigo-MusesD	5	95.34	37.81	0.24
Indigo-MusesT	5	96.56	43.25	0.80
LEDBAT	5	63.33	39.73	0.20
PCC-Allegro	5	91.58	40.51	0.26
PCC-Expr	5	86.70	153.95	0.36
QUIC Cubic	5	77.94	48.40	0.29
SCReAM	5	0.21	33.50	0.26
Sprout	5	12.03	41.28	0.21
TaoVA-100x	5	88.29	44.77	0.22
TCP Vegas	5	78.15	35.08	0.28
Verus	5	85.37	74.21	0.39
PCC-Vivace	5	85.39	34.73	0.23
WebRTC media	5	2.30	33.75	0.25

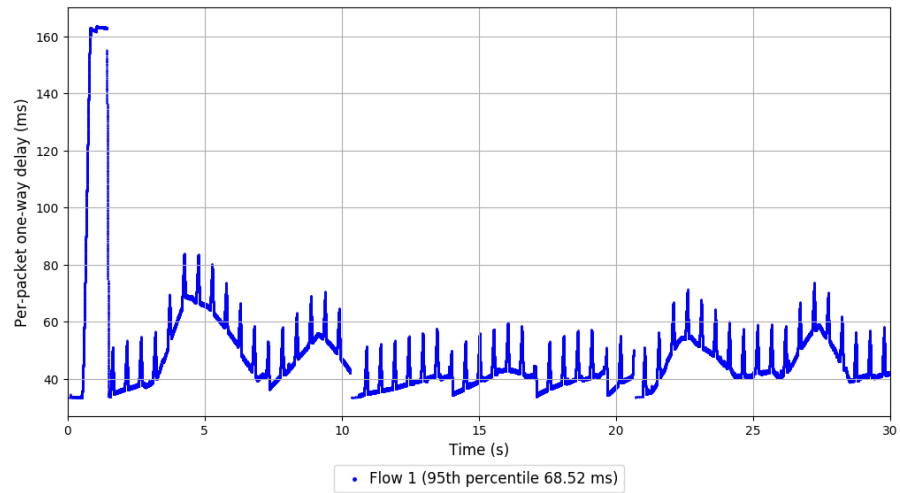
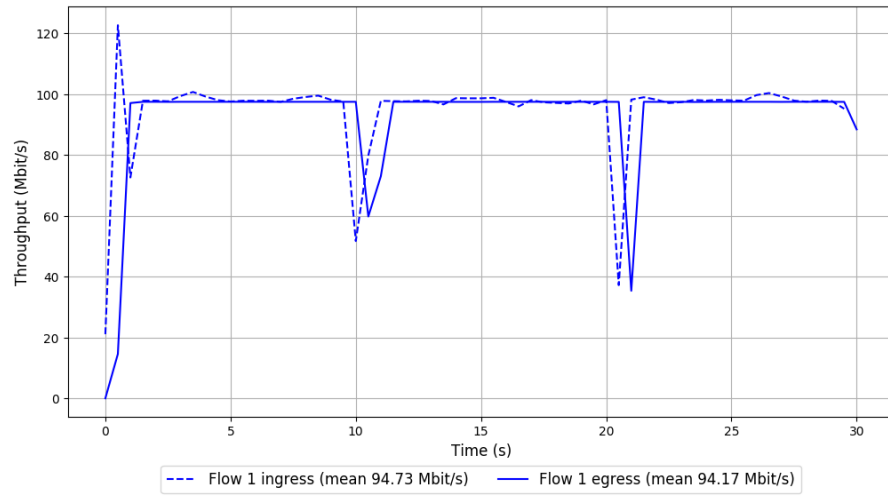


Run 1: Statistics of TCP BBR

Start at: 2019-01-25 10:46:49  
End at: 2019-01-25 10:47:19  
Local clock offset: -2.97 ms  
Remote clock offset: -3.173 ms

# Below is generated by plot.py at 2019-01-25 12:50:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.17 Mbit/s  
95th percentile per-packet one-way delay: 68.517 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 94.17 Mbit/s  
95th percentile per-packet one-way delay: 68.517 ms  
Loss rate: 0.81%

# Run 1: Report of TCP BBR — Data Link

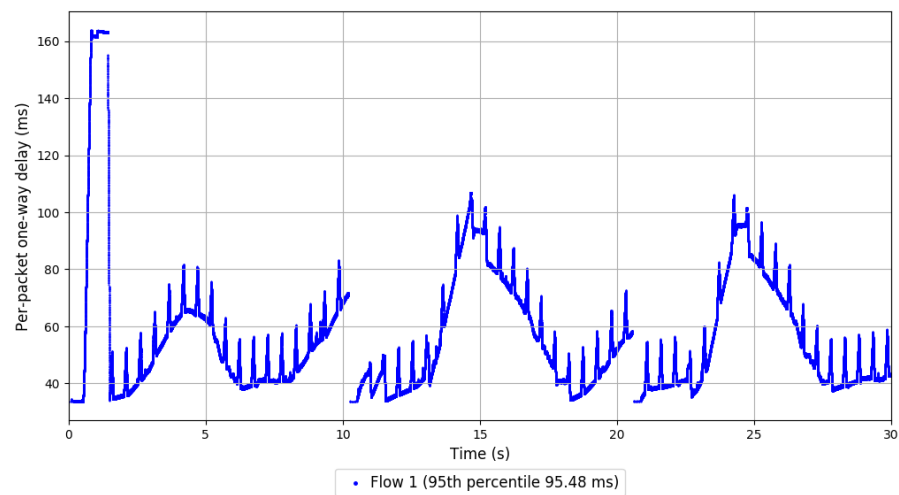
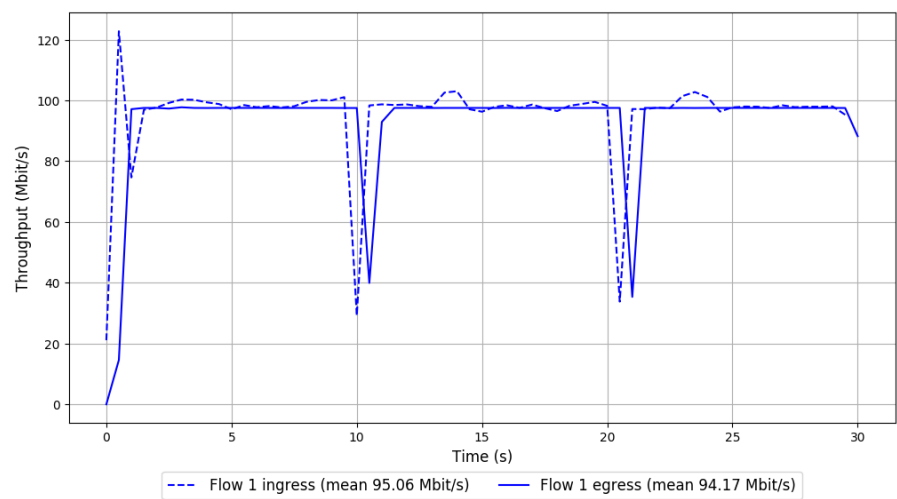


Run 2: Statistics of TCP BBR

Start at: 2019-01-25 11:12:34  
End at: 2019-01-25 11:13:04  
Local clock offset: -4.401 ms  
Remote clock offset: -2.557 ms

# Below is generated by plot.py at 2019-01-25 12:50:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.17 Mbit/s  
95th percentile per-packet one-way delay: 95.481 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 94.17 Mbit/s  
95th percentile per-packet one-way delay: 95.481 ms  
Loss rate: 1.15%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-25 11:38:03

End at: 2019-01-25 11:38:33

Local clock offset: -3.345 ms

Remote clock offset: -1.51 ms

# Below is generated by plot.py at 2019-01-25 12:50:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 69.254 ms

Loss rate: 1.08%

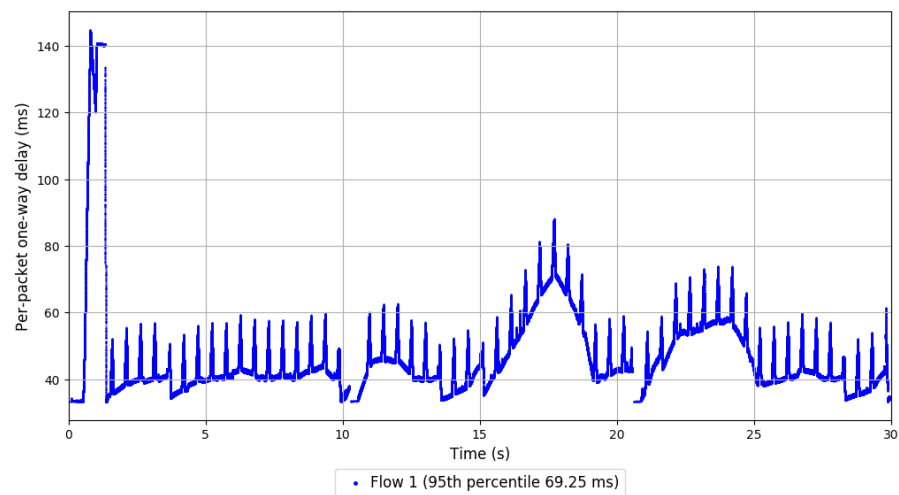
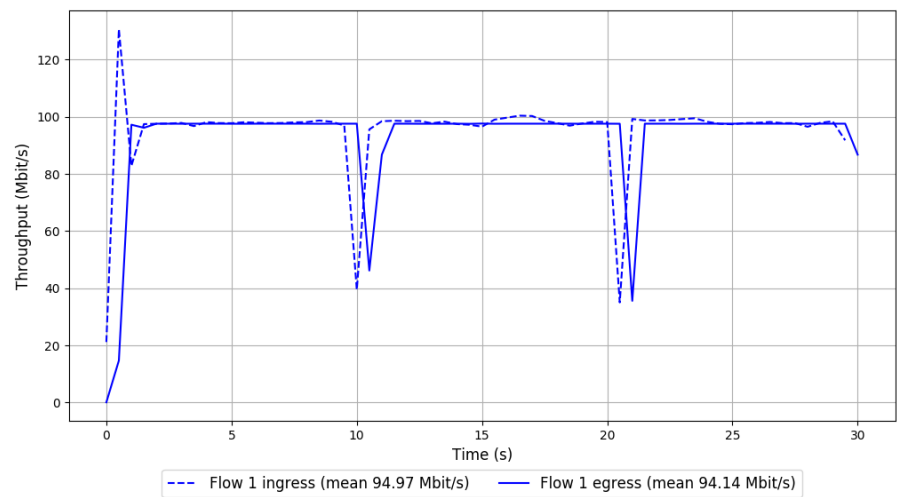
-- Flow 1:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 69.254 ms

Loss rate: 1.08%

Run 3: Report of TCP BBR — Data Link

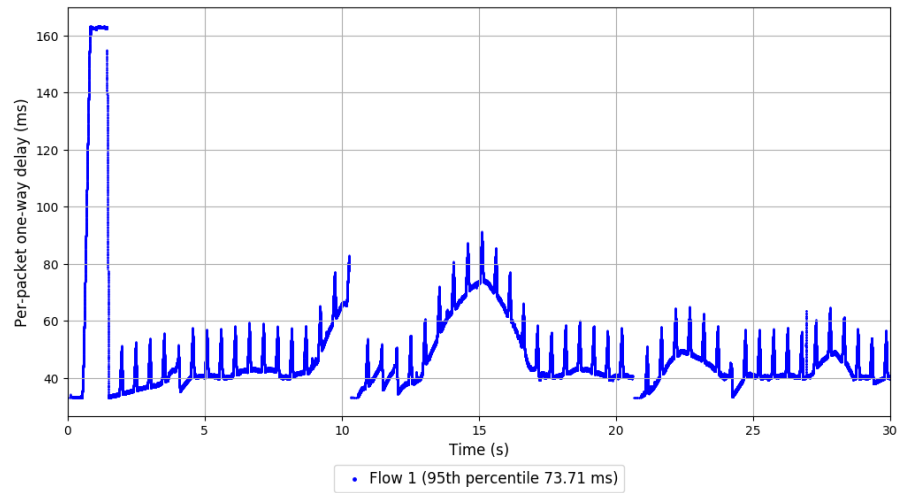
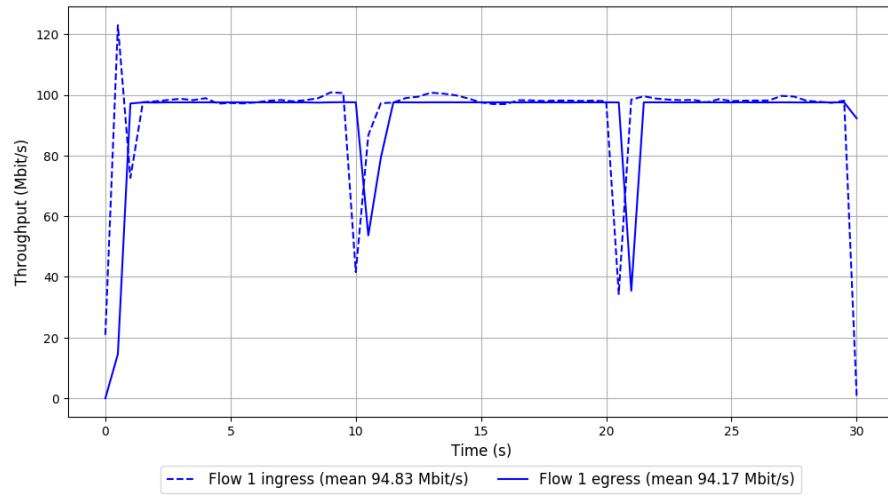


Run 4: Statistics of TCP BBR

Start at: 2019-01-25 12:03:12  
End at: 2019-01-25 12:03:42  
Local clock offset: -1.241 ms  
Remote clock offset: -1.537 ms

# Below is generated by plot.py at 2019-01-25 12:50:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.17 Mbit/s  
95th percentile per-packet one-way delay: 73.707 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 94.17 Mbit/s  
95th percentile per-packet one-way delay: 73.707 ms  
Loss rate: 0.91%

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





Run 5: Statistics of TCP BBR

Start at: 2019-01-25 12:28:23

End at: 2019-01-25 12:28:53

Local clock offset: 1.598 ms

Remote clock offset: -1.497 ms

# Below is generated by plot.py at 2019-01-25 12:50:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 74.248 ms

Loss rate: 1.59%

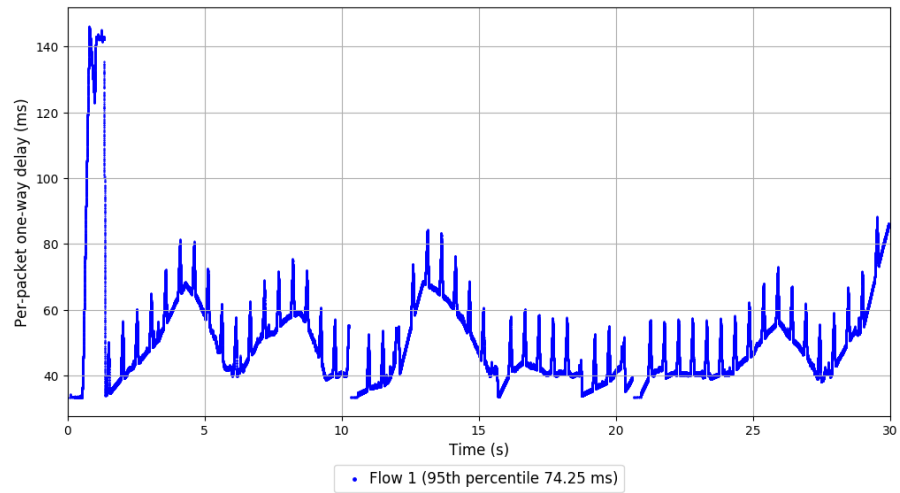
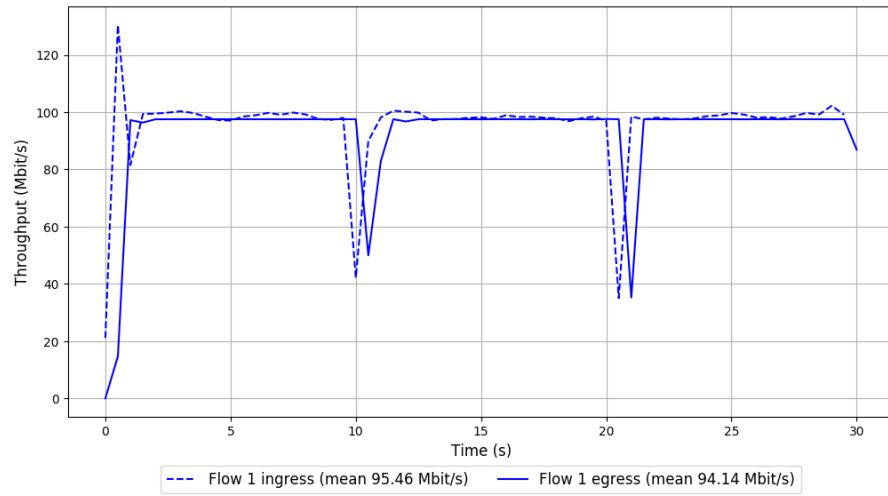
-- Flow 1:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 74.248 ms

Loss rate: 1.59%

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

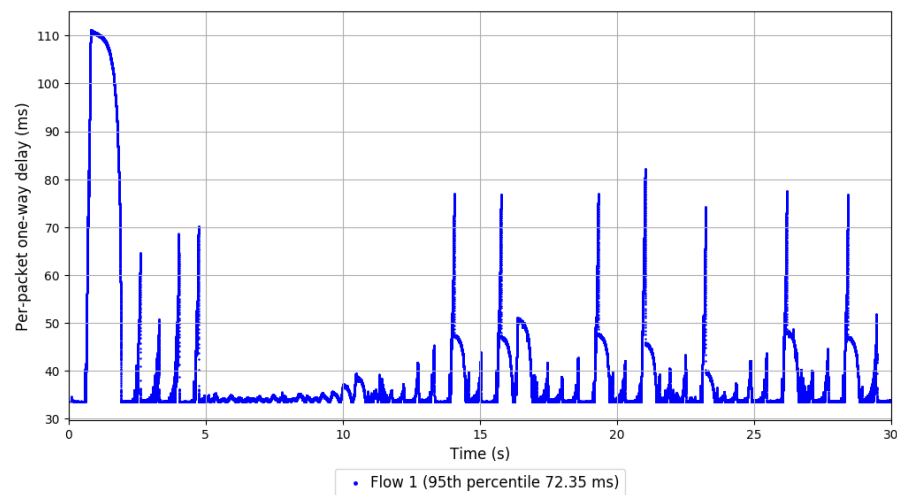
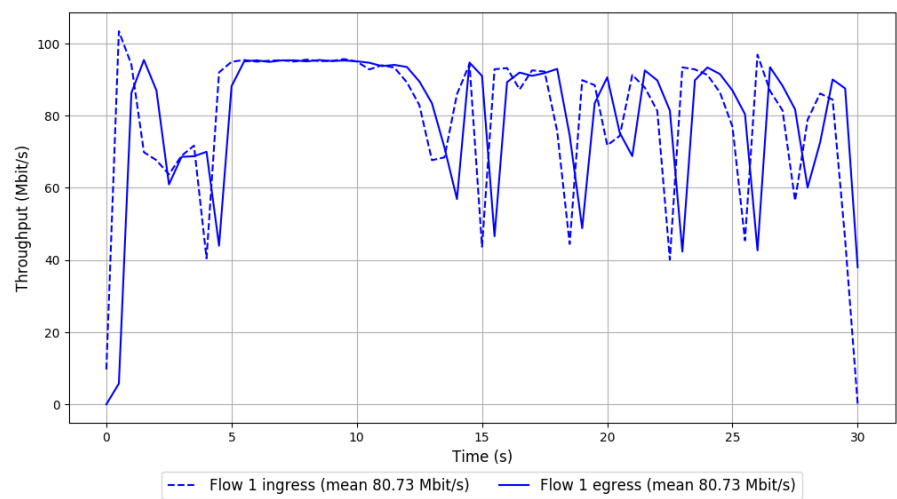


Run 1: Statistics of Copa

Start at: 2019-01-25 11:00:07  
End at: 2019-01-25 11:00:37  
Local clock offset: -3.85 ms  
Remote clock offset: -2.949 ms

# Below is generated by plot.py at 2019-01-25 12:51:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.73 Mbit/s  
95th percentile per-packet one-way delay: 72.348 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 80.73 Mbit/s  
95th percentile per-packet one-way delay: 72.348 ms  
Loss rate: 0.22%

Run 1: Report of Copa — Data Link

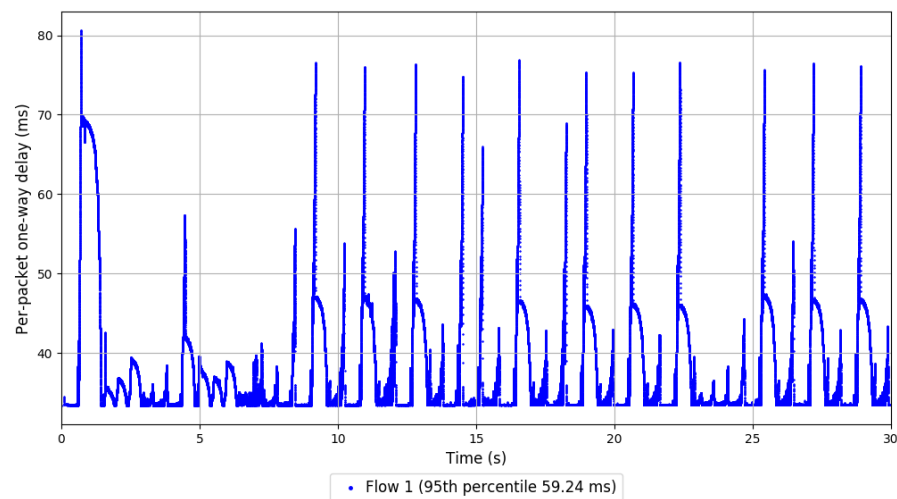
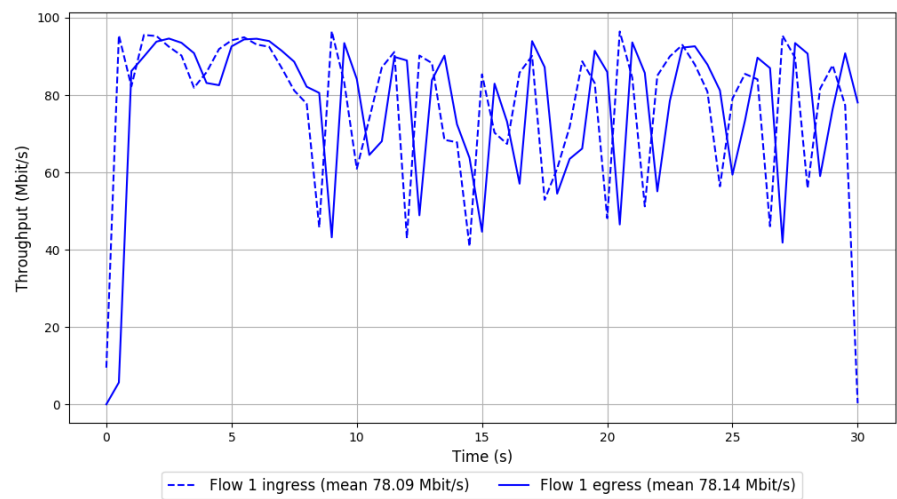


Run 2: Statistics of Copa

Start at: 2019-01-25 11:25:44  
End at: 2019-01-25 11:26:14  
Local clock offset: -4.983 ms  
Remote clock offset: -1.869 ms

# Below is generated by plot.py at 2019-01-25 12:51:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.14 Mbit/s  
95th percentile per-packet one-way delay: 59.239 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 78.14 Mbit/s  
95th percentile per-packet one-way delay: 59.239 ms  
Loss rate: 0.15%

Run 2: Report of Copa — Data Link

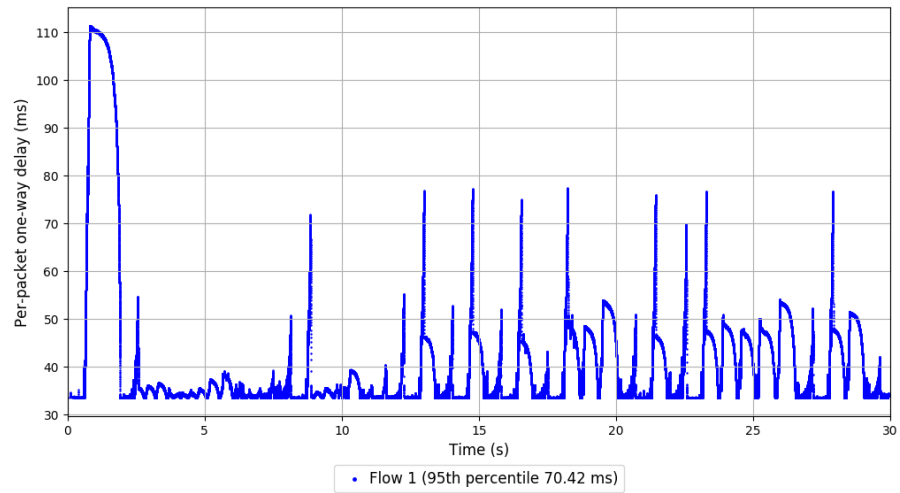
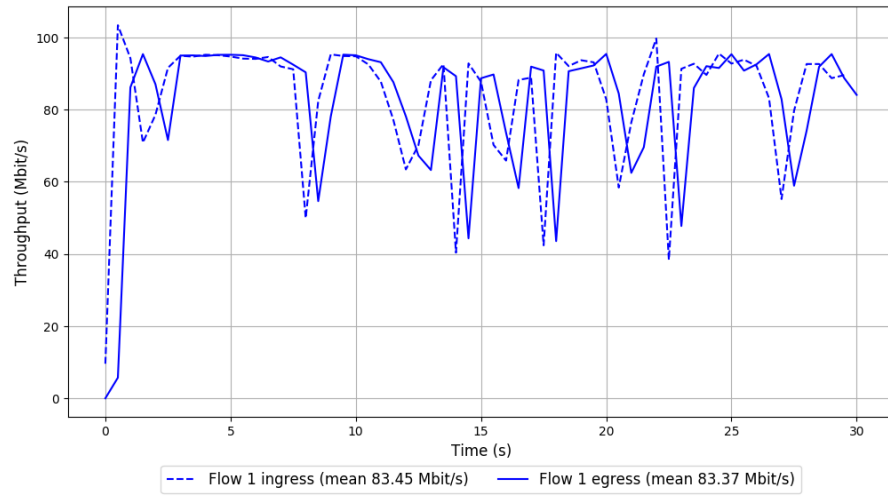


Run 3: Statistics of Copa

Start at: 2019-01-25 11:50:56  
End at: 2019-01-25 11:51:26  
Local clock offset: -2.504 ms  
Remote clock offset: -1.731 ms

# Below is generated by plot.py at 2019-01-25 12:51:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.37 Mbit/s  
95th percentile per-packet one-way delay: 70.416 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 83.37 Mbit/s  
95th percentile per-packet one-way delay: 70.416 ms  
Loss rate: 0.31%

### Run 3: Report of Copa — Data Link



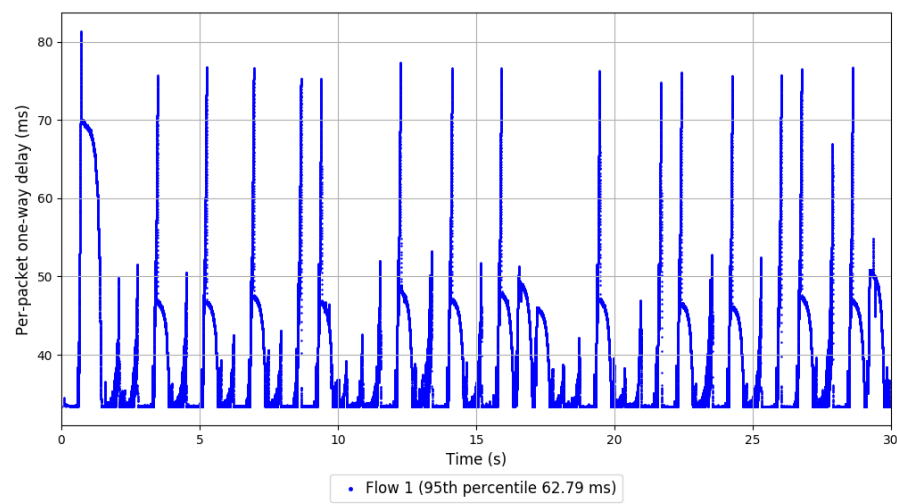
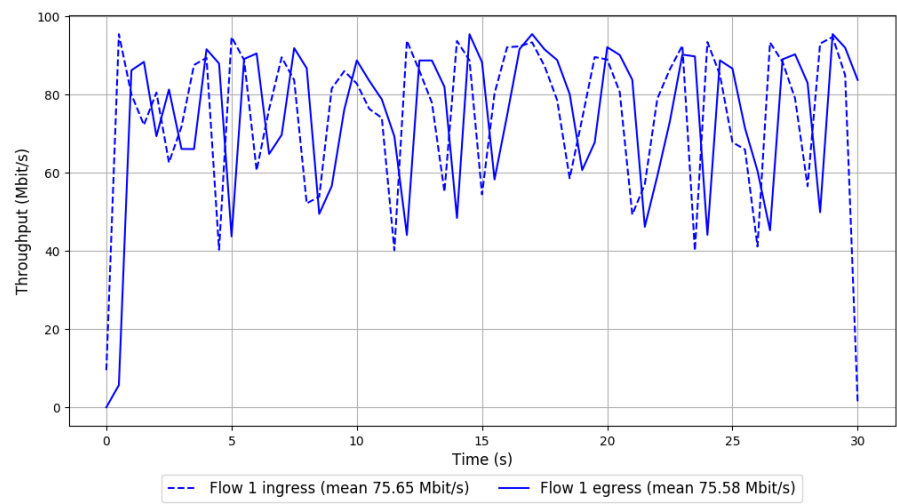


Run 4: Statistics of Copa

Start at: 2019-01-25 12:16:13  
End at: 2019-01-25 12:16:43  
Local clock offset: 0.743 ms  
Remote clock offset: -1.494 ms

# Below is generated by plot.py at 2019-01-25 12:52:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.58 Mbit/s  
95th percentile per-packet one-way delay: 62.792 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 75.58 Mbit/s  
95th percentile per-packet one-way delay: 62.792 ms  
Loss rate: 0.30%

Run 4: Report of Copa — Data Link

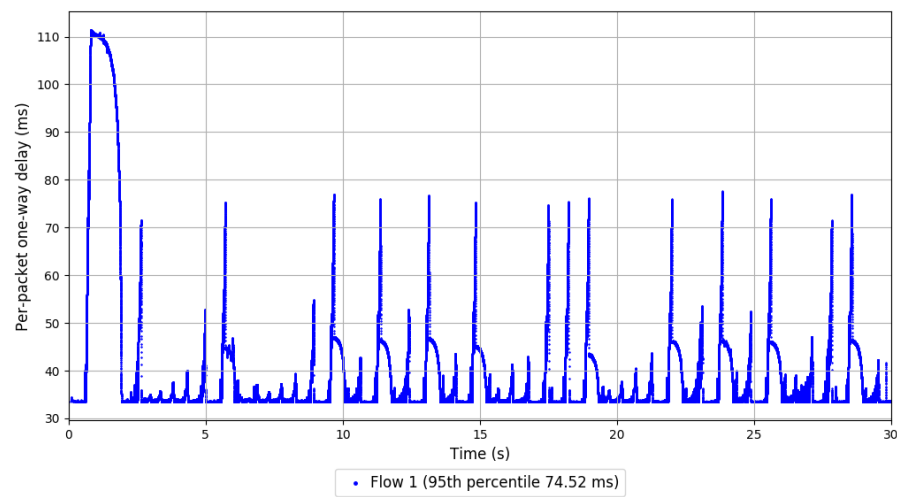
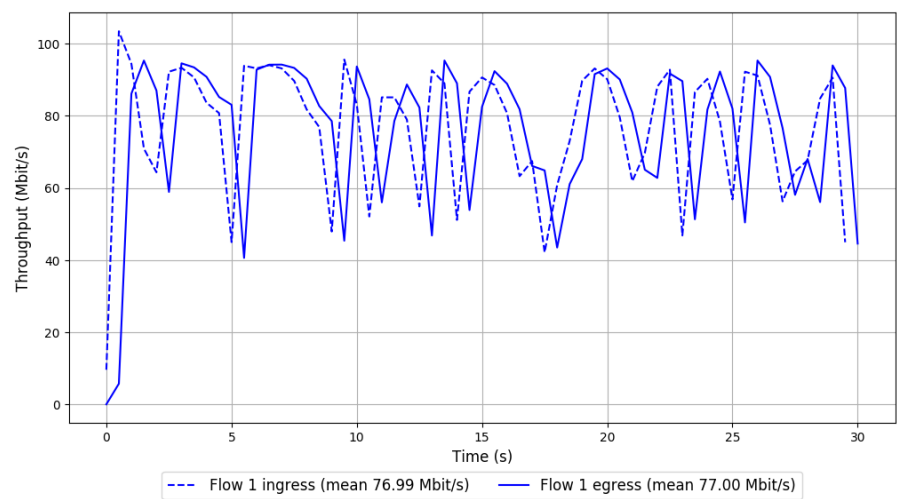


Run 5: Statistics of Copa

Start at: 2019-01-25 12:41:18  
End at: 2019-01-25 12:41:48  
Local clock offset: 0.899 ms  
Remote clock offset: -1.546 ms

# Below is generated by plot.py at 2019-01-25 12:52:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.00 Mbit/s  
95th percentile per-packet one-way delay: 74.523 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 77.00 Mbit/s  
95th percentile per-packet one-way delay: 74.523 ms  
Loss rate: 0.20%

Run 5: Report of Copa — Data Link

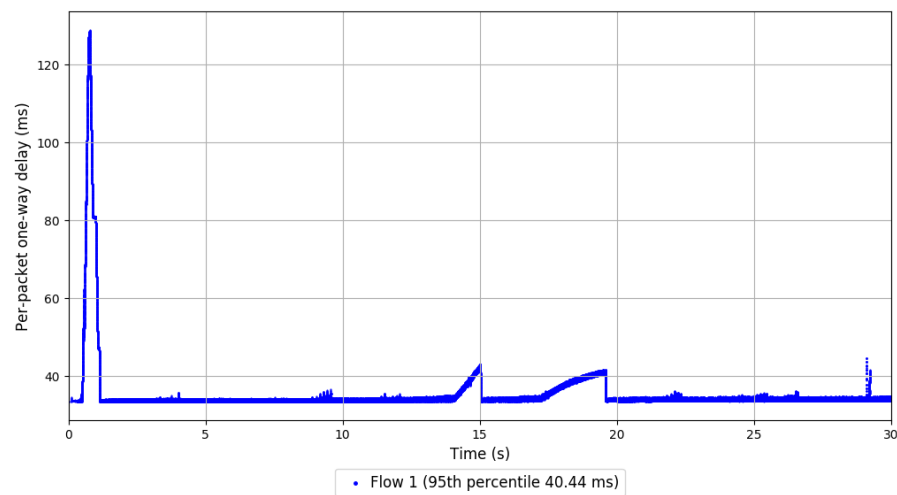
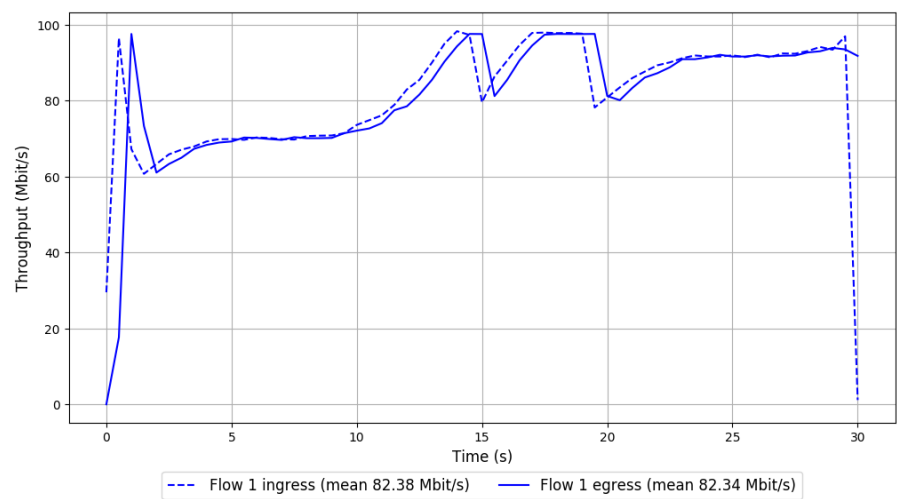


Run 1: Statistics of TCP Cubic

Start at: 2019-01-25 10:56:36  
End at: 2019-01-25 10:57:06  
Local clock offset: -3.64 ms  
Remote clock offset: -2.872 ms

# Below is generated by plot.py at 2019-01-25 12:52:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.34 Mbit/s  
95th percentile per-packet one-way delay: 40.437 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 82.34 Mbit/s  
95th percentile per-packet one-way delay: 40.437 ms  
Loss rate: 0.26%

Run 1: Report of TCP Cubic — Data Link

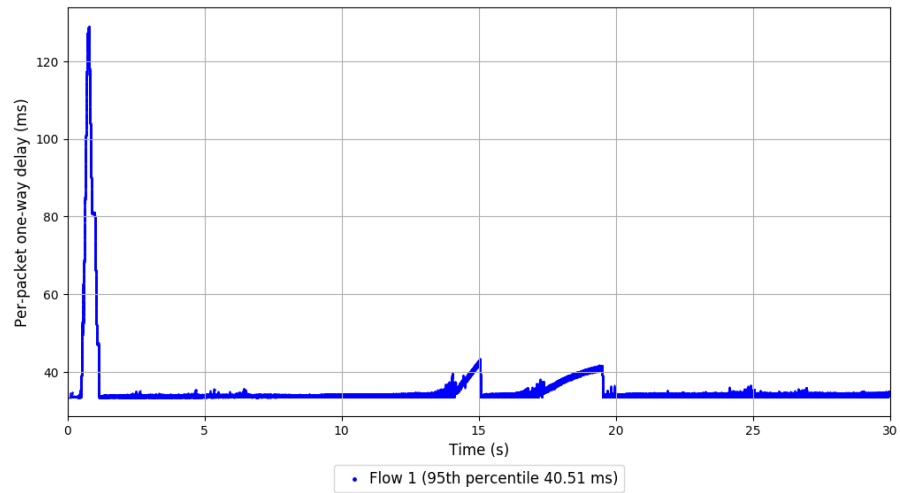
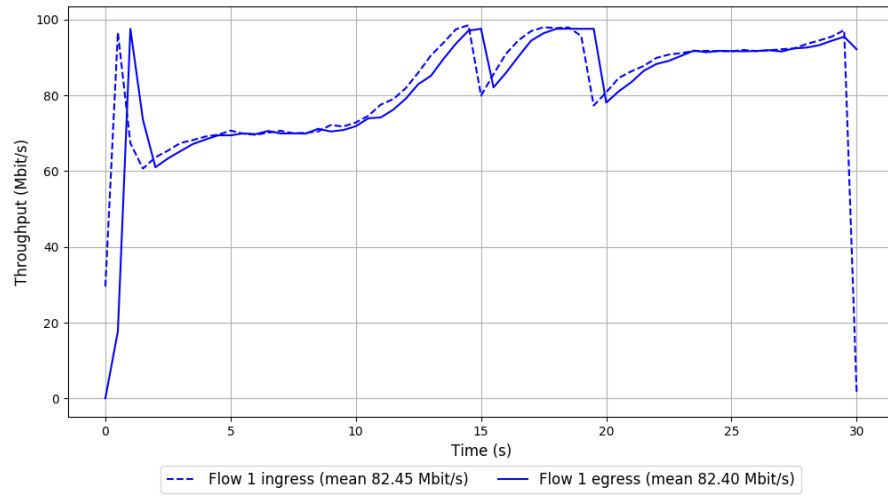


Run 2: Statistics of TCP Cubic

Start at: 2019-01-25 11:22:13  
End at: 2019-01-25 11:22:44  
Local clock offset: -4.833 ms  
Remote clock offset: -2.054 ms

# Below is generated by plot.py at 2019-01-25 12:52:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.40 Mbit/s  
95th percentile per-packet one-way delay: 40.505 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 82.40 Mbit/s  
95th percentile per-packet one-way delay: 40.505 ms  
Loss rate: 0.26%

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



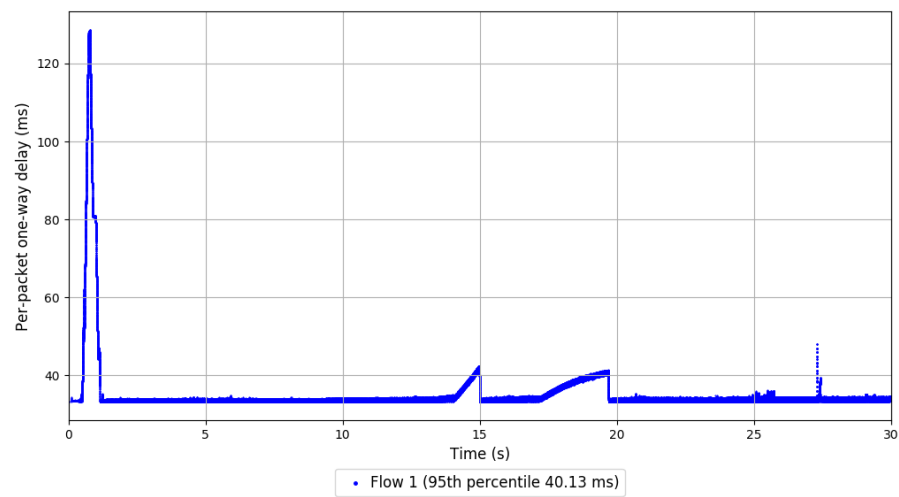
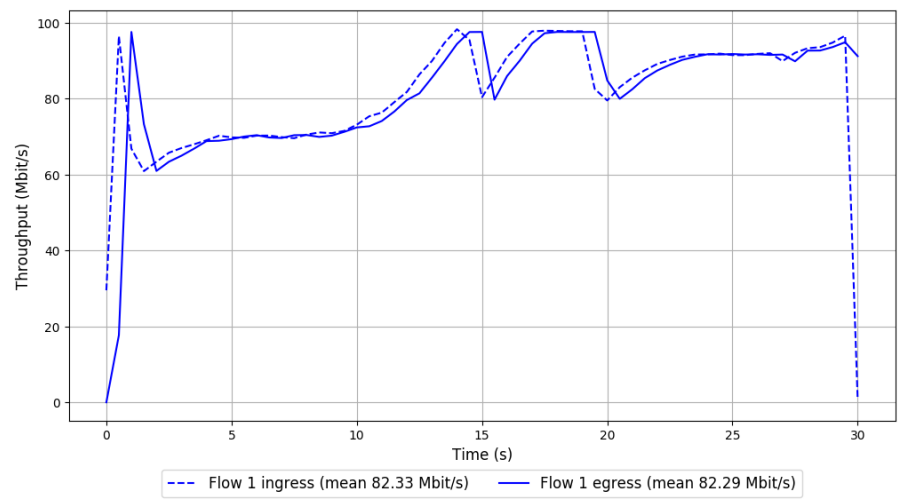


Run 3: Statistics of TCP Cubic

Start at: 2019-01-25 11:47:29  
End at: 2019-01-25 11:47:59  
Local clock offset: -2.625 ms  
Remote clock offset: -1.497 ms

# Below is generated by plot.py at 2019-01-25 12:52:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.29 Mbit/s  
95th percentile per-packet one-way delay: 40.126 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 82.29 Mbit/s  
95th percentile per-packet one-way delay: 40.126 ms  
Loss rate: 0.26%

Run 3: Report of TCP Cubic — Data Link

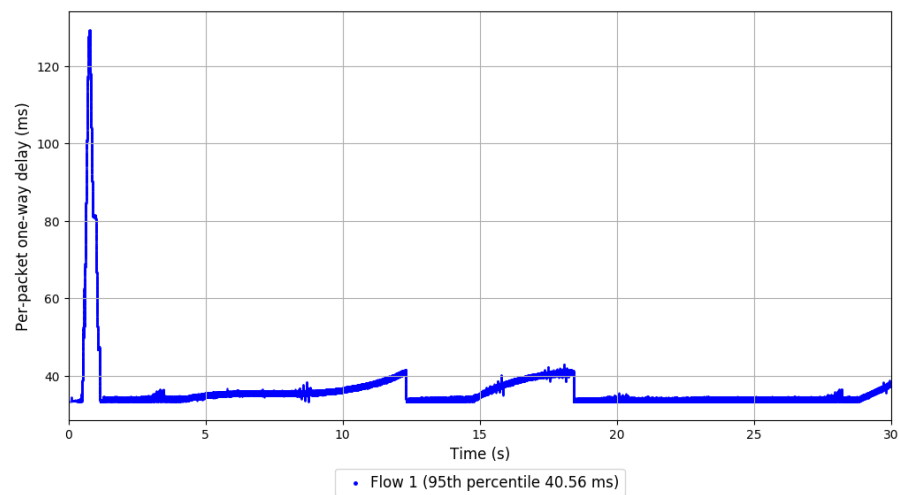
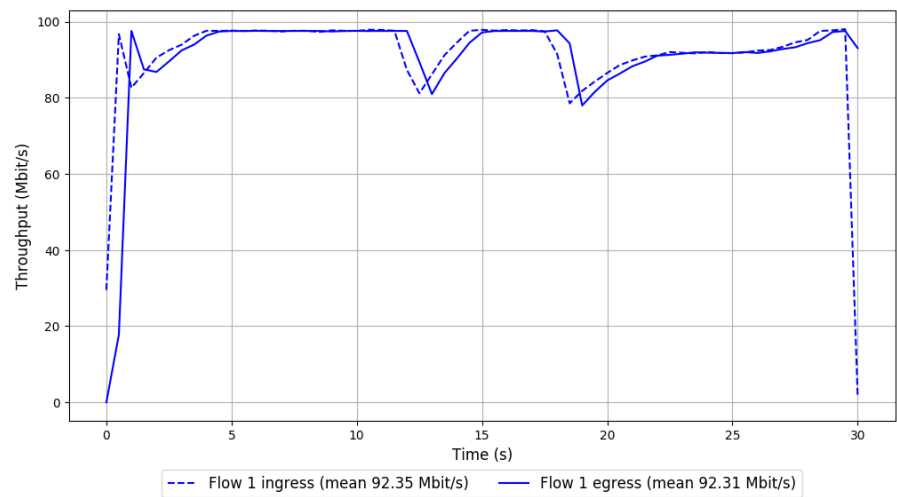


Run 4: Statistics of TCP Cubic

Start at: 2019-01-25 12:12:46  
End at: 2019-01-25 12:13:16  
Local clock offset: 0.37 ms  
Remote clock offset: -1.456 ms

# Below is generated by plot.py at 2019-01-25 12:52:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.31 Mbit/s  
95th percentile per-packet one-way delay: 40.559 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 92.31 Mbit/s  
95th percentile per-packet one-way delay: 40.559 ms  
Loss rate: 0.25%

Run 4: Report of TCP Cubic — Data Link

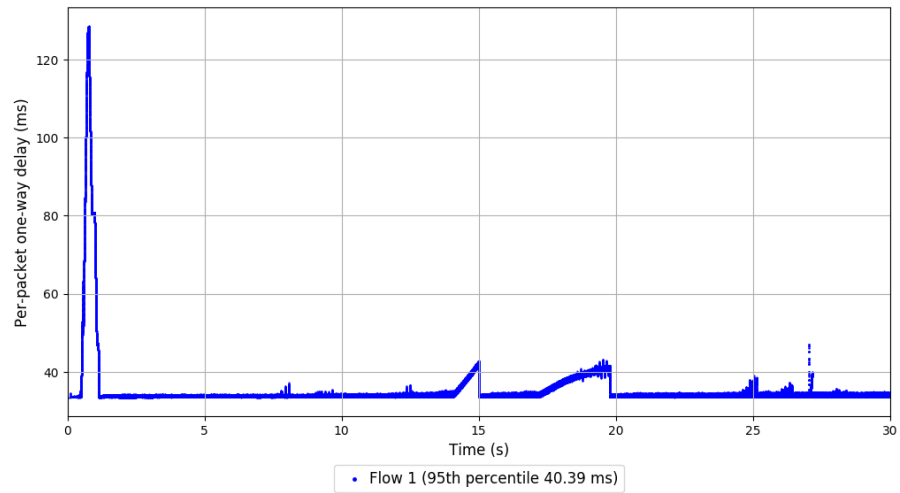
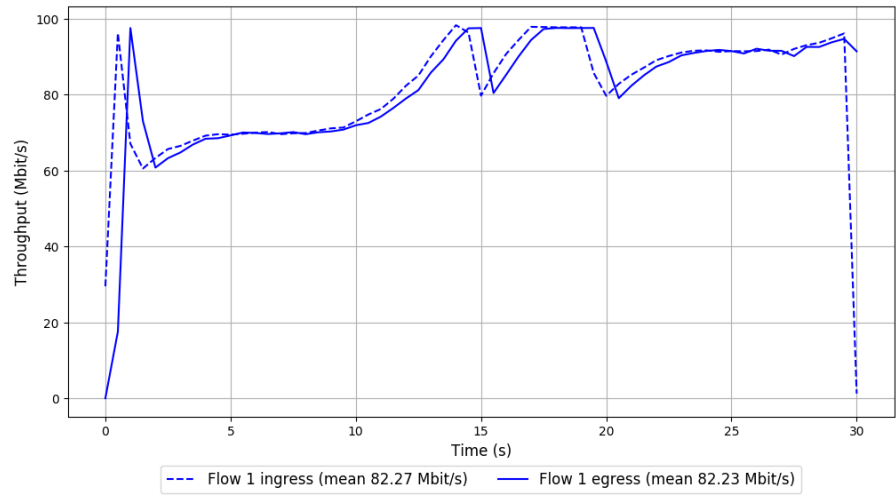


Run 5: Statistics of TCP Cubic

Start at: 2019-01-25 12:37:51  
End at: 2019-01-25 12:38:21  
Local clock offset: 0.994 ms  
Remote clock offset: -1.493 ms

# Below is generated by plot.py at 2019-01-25 12:52:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.23 Mbit/s  
95th percentile per-packet one-way delay: 40.388 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 82.23 Mbit/s  
95th percentile per-packet one-way delay: 40.388 ms  
Loss rate: 0.26%

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

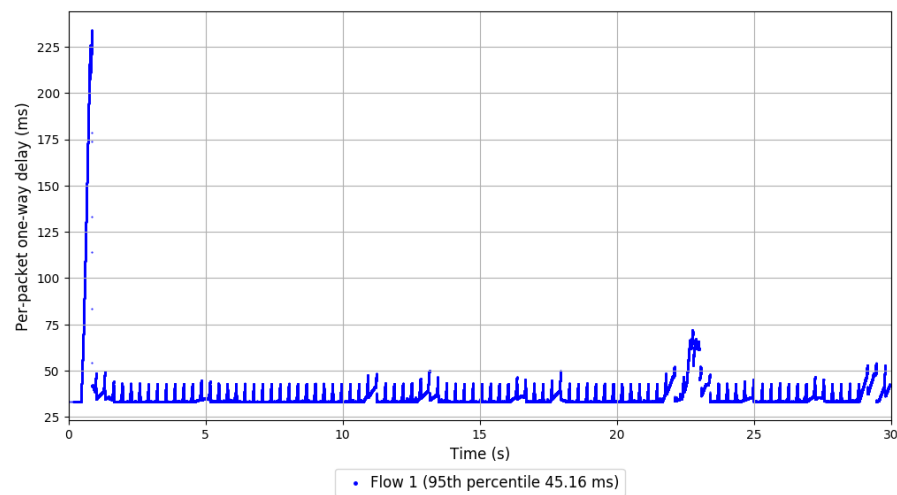
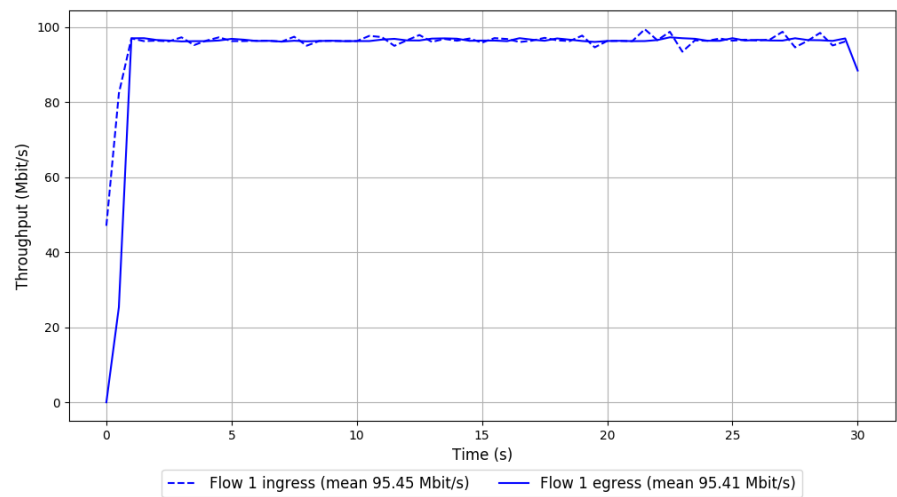


Run 1: Statistics of FillP

Start at: 2019-01-25 10:55:22  
End at: 2019-01-25 10:55:52  
Local clock offset: -3.575 ms  
Remote clock offset: -2.938 ms

# Below is generated by plot.py at 2019-01-25 12:52:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.41 Mbit/s  
95th percentile per-packet one-way delay: 45.155 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 95.41 Mbit/s  
95th percentile per-packet one-way delay: 45.155 ms  
Loss rate: 0.26%

Run 1: Report of FillP — Data Link



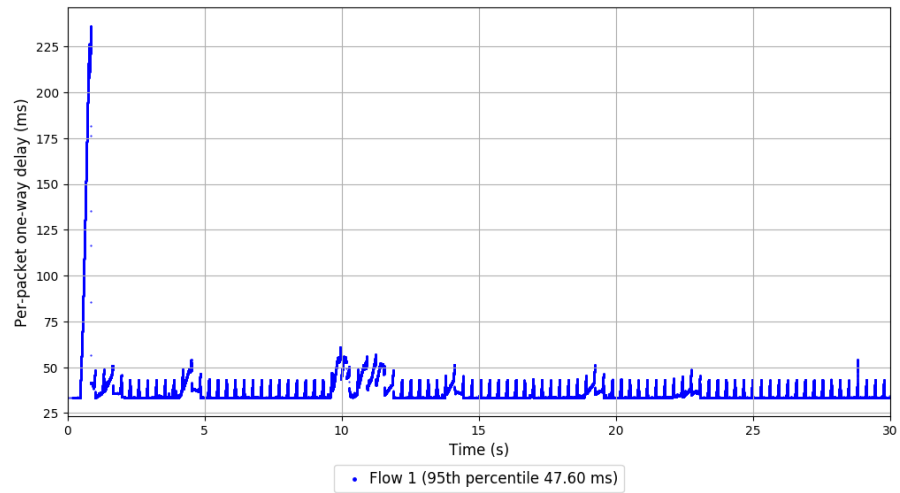
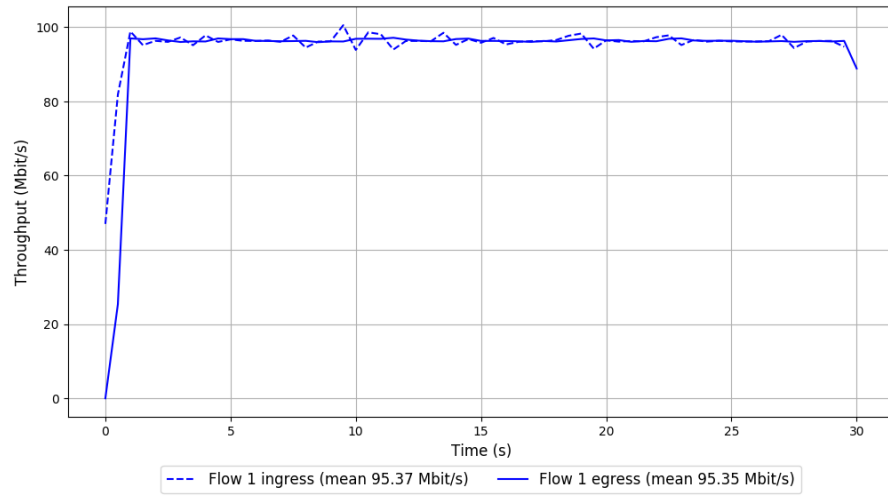


Run 2: Statistics of FillP

Start at: 2019-01-25 11:21:04  
End at: 2019-01-25 11:21:34  
Local clock offset: -4.785 ms  
Remote clock offset: -2.095 ms

# Below is generated by plot.py at 2019-01-25 12:53:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.35 Mbit/s  
95th percentile per-packet one-way delay: 47.603 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 95.35 Mbit/s  
95th percentile per-packet one-way delay: 47.603 ms  
Loss rate: 0.23%

## Run 2: Report of FillP — Data Link

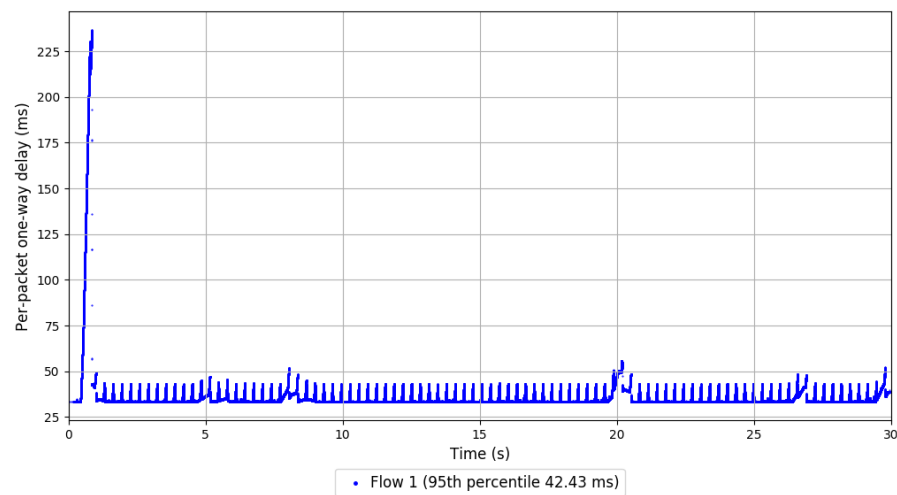
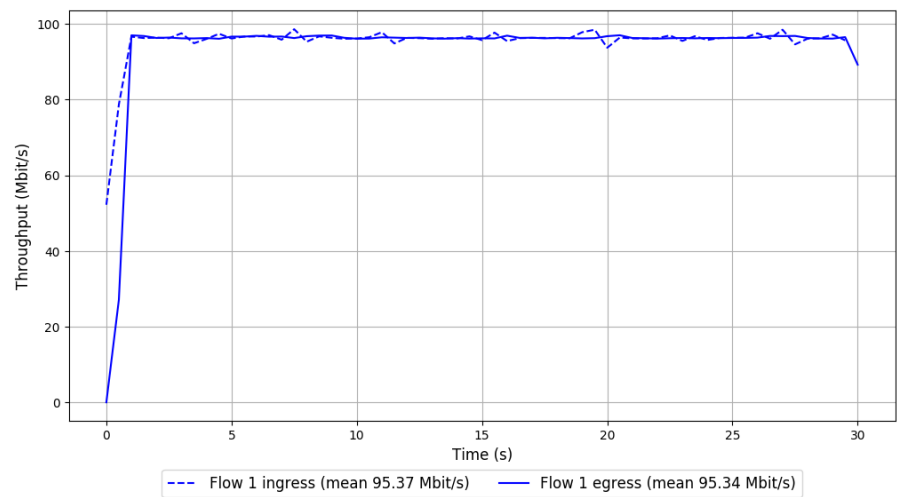


Run 3: Statistics of FillP

Start at: 2019-01-25 11:46:19  
End at: 2019-01-25 11:46:49  
Local clock offset: -2.678 ms  
Remote clock offset: -1.527 ms

# Below is generated by plot.py at 2019-01-25 12:53:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.34 Mbit/s  
95th percentile per-packet one-way delay: 42.432 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 95.34 Mbit/s  
95th percentile per-packet one-way delay: 42.432 ms  
Loss rate: 0.24%

Run 3: Report of FillP — Data Link

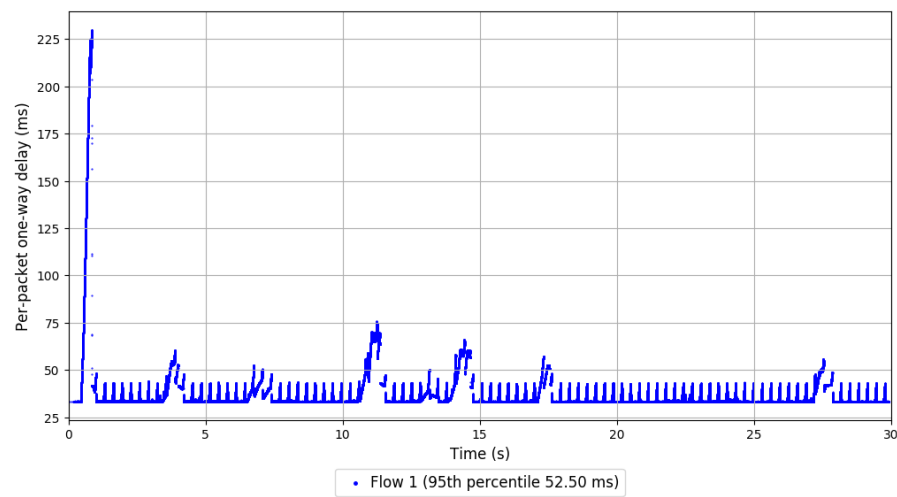
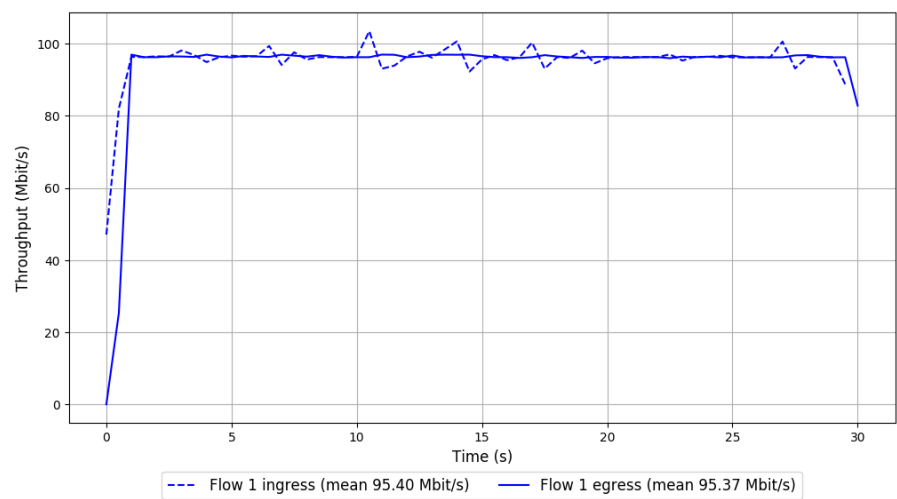


Run 4: Statistics of FillP

Start at: 2019-01-25 12:11:30  
End at: 2019-01-25 12:12:00  
Local clock offset: 0.236 ms  
Remote clock offset: -1.444 ms

# Below is generated by plot.py at 2019-01-25 12:53:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.37 Mbit/s  
95th percentile per-packet one-way delay: 52.498 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 95.37 Mbit/s  
95th percentile per-packet one-way delay: 52.498 ms  
Loss rate: 0.24%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-01-25 12:36:41

End at: 2019-01-25 12:37:11

Local clock offset: 1.048 ms

Remote clock offset: -1.47 ms

# Below is generated by plot.py at 2019-01-25 12:53:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 42.546 ms

Loss rate: 0.22%

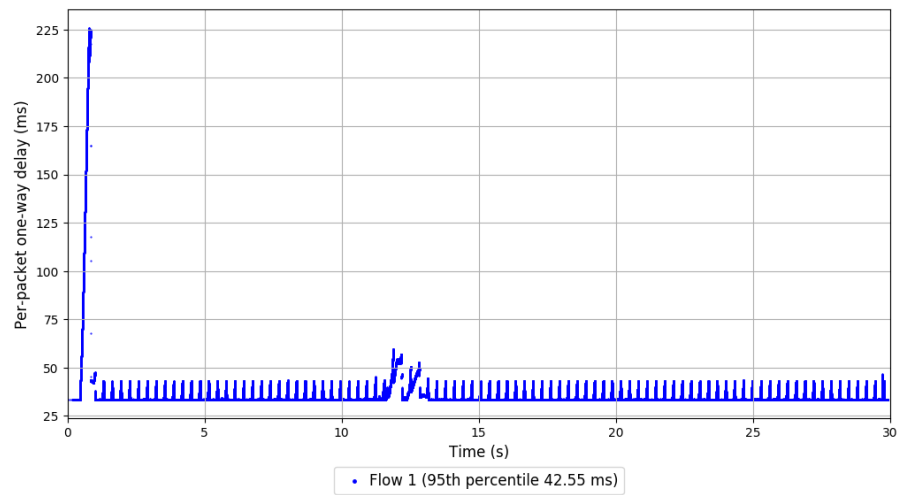
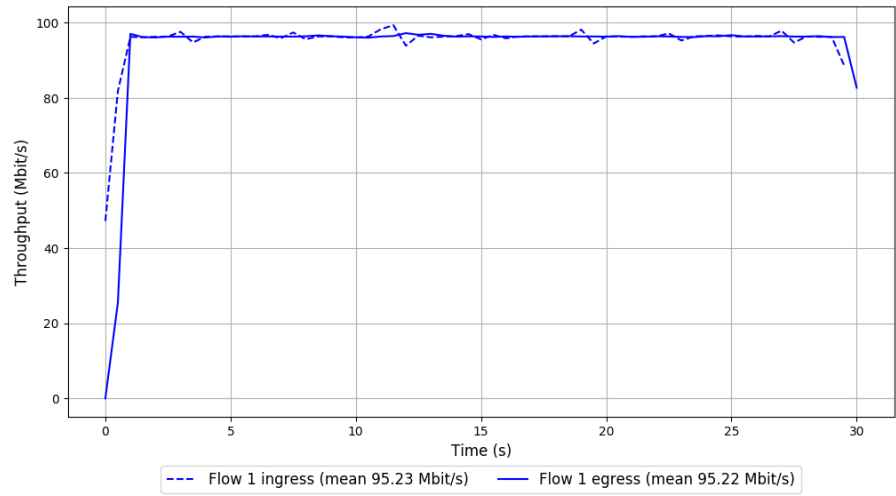
-- Flow 1:

Average throughput: 95.22 Mbit/s

95th percentile per-packet one-way delay: 42.546 ms

Loss rate: 0.22%

## Run 5: Report of FillP — Data Link



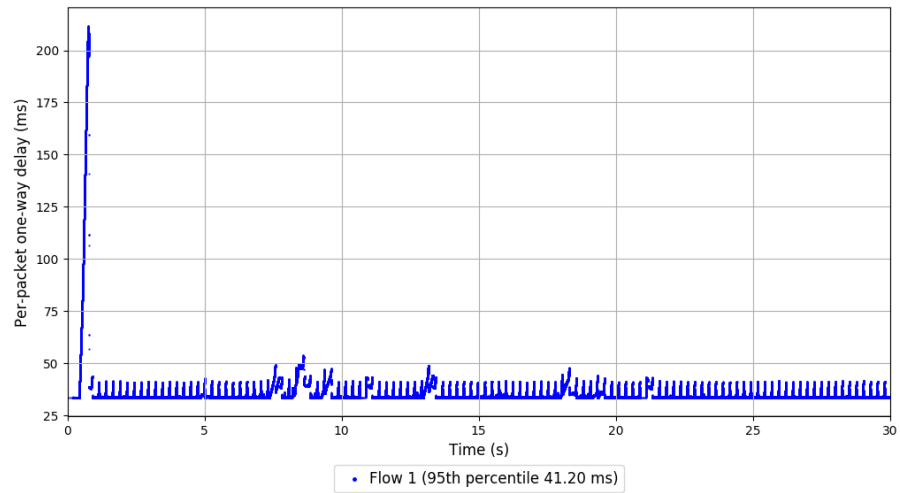
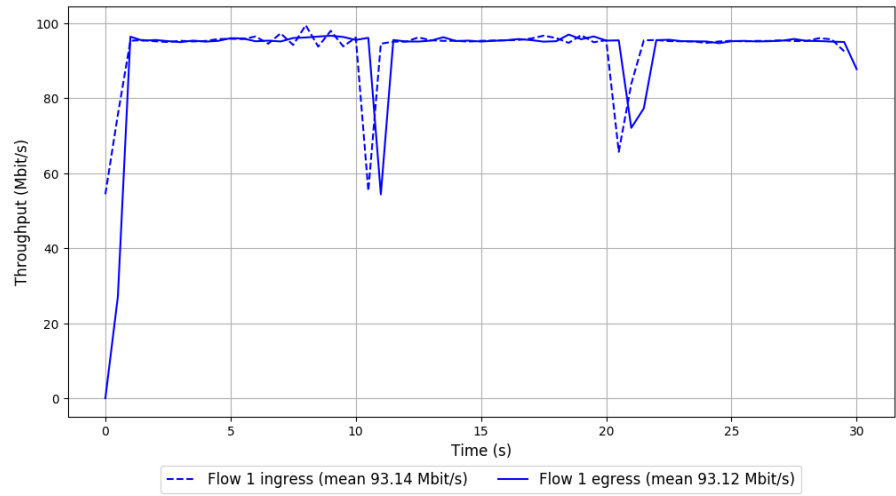


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-25 10:48:05  
End at: 2019-01-25 10:48:35  
Local clock offset: -3.077 ms  
Remote clock offset: -3.109 ms

# Below is generated by plot.py at 2019-01-25 12:53:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.12 Mbit/s  
95th percentile per-packet one-way delay: 41.199 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 93.12 Mbit/s  
95th percentile per-packet one-way delay: 41.199 ms  
Loss rate: 0.23%

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

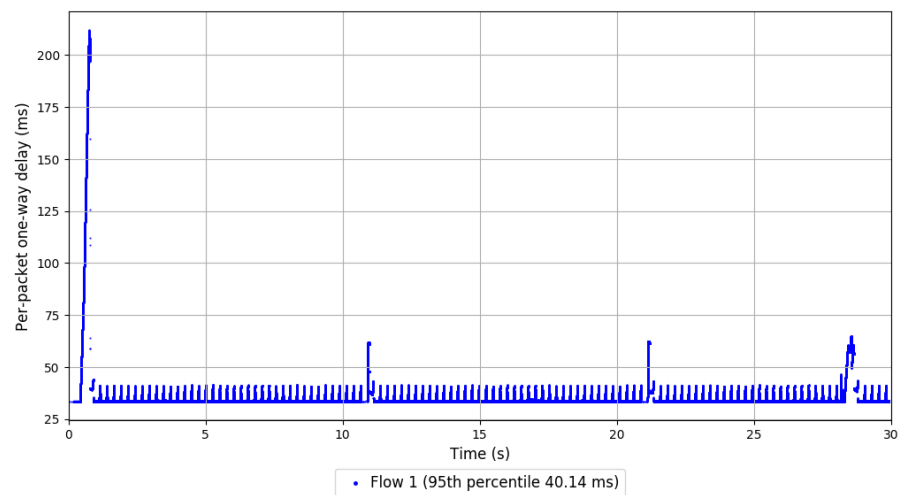
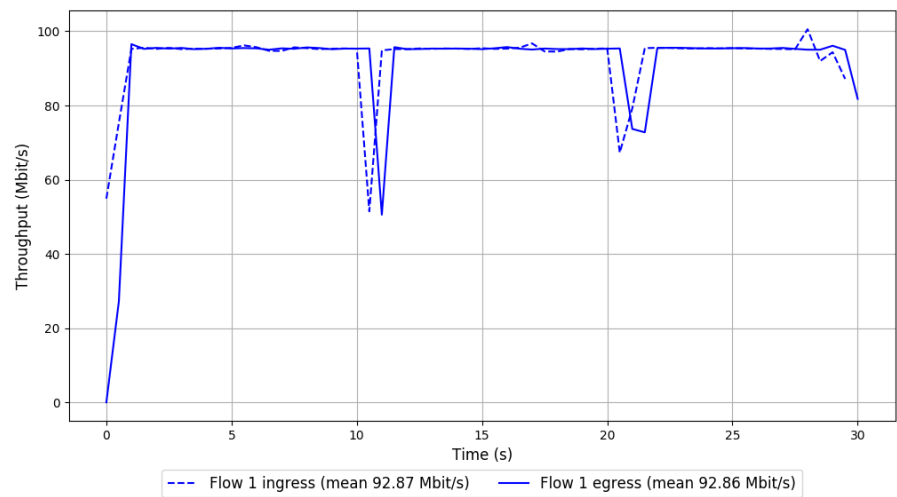


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-25 11:13:50  
End at: 2019-01-25 11:14:20  
Local clock offset: -4.465 ms  
Remote clock offset: -2.309 ms

# Below is generated by plot.py at 2019-01-25 12:53:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.86 Mbit/s  
95th percentile per-packet one-way delay: 40.144 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 92.86 Mbit/s  
95th percentile per-packet one-way delay: 40.144 ms  
Loss rate: 0.22%

Run 2: Report of FillP-Sheep — Data Link

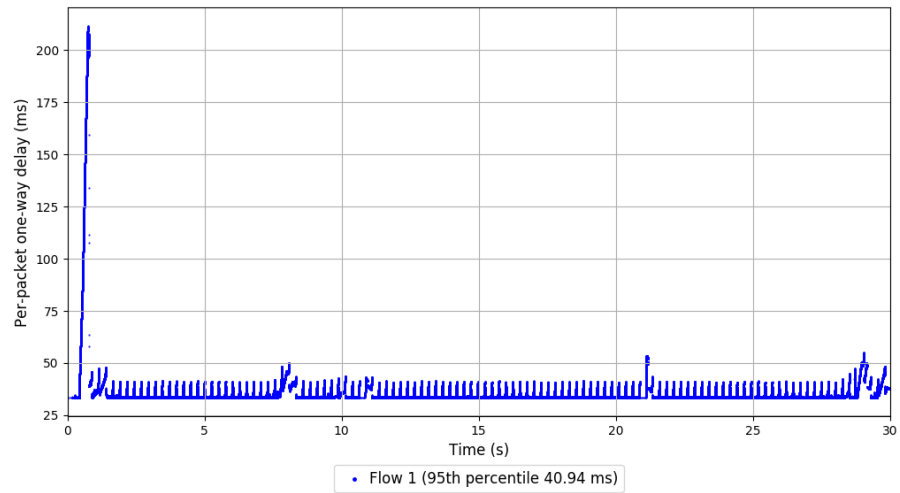
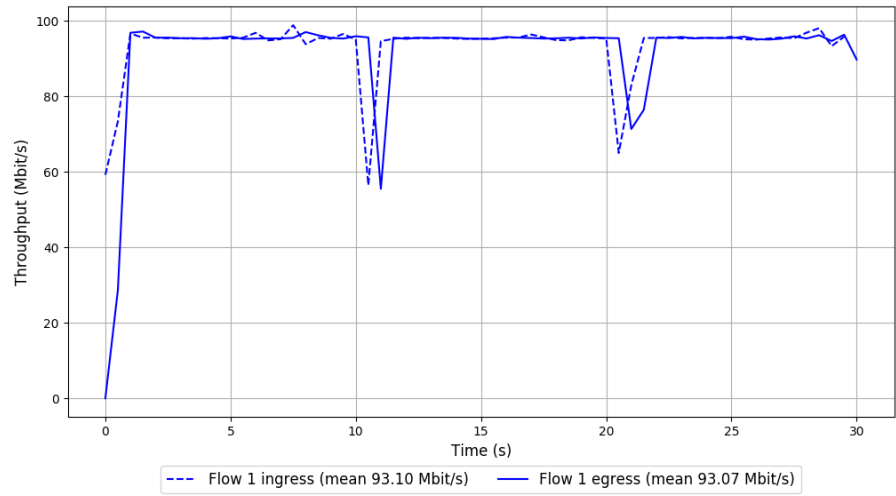


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-25 11:39:16  
End at: 2019-01-25 11:39:46  
Local clock offset: -3.23 ms  
Remote clock offset: -1.544 ms

# Below is generated by plot.py at 2019-01-25 12:53:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.07 Mbit/s  
95th percentile per-packet one-way delay: 40.938 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 93.07 Mbit/s  
95th percentile per-packet one-way delay: 40.938 ms  
Loss rate: 0.24%

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

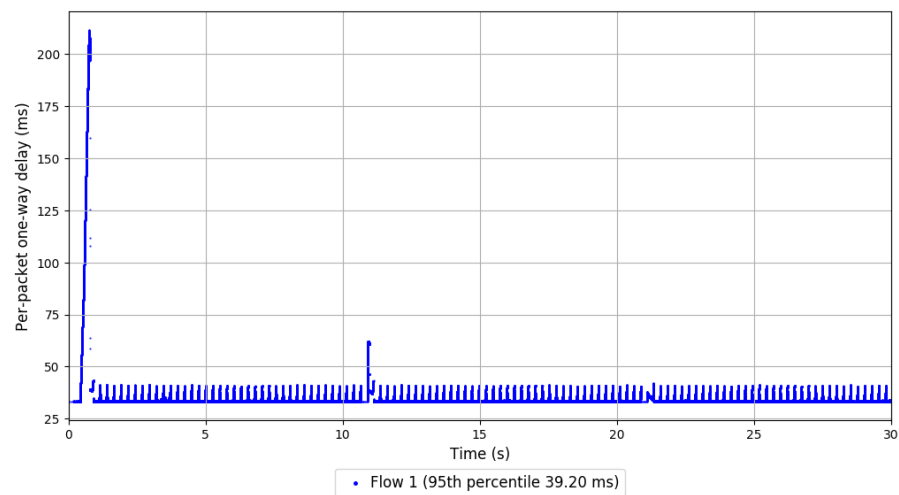
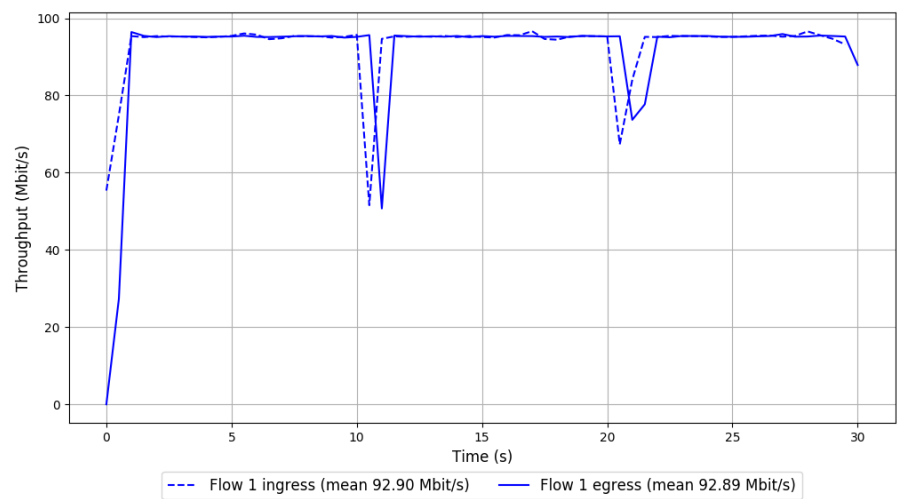


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-25 12:04:26  
End at: 2019-01-25 12:04:56  
Local clock offset: -0.954 ms  
Remote clock offset: -1.526 ms

# Below is generated by plot.py at 2019-01-25 12:54:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.89 Mbit/s  
95th percentile per-packet one-way delay: 39.199 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 92.89 Mbit/s  
95th percentile per-packet one-way delay: 39.199 ms  
Loss rate: 0.22%

Run 4: Report of FillP-Sheep — Data Link



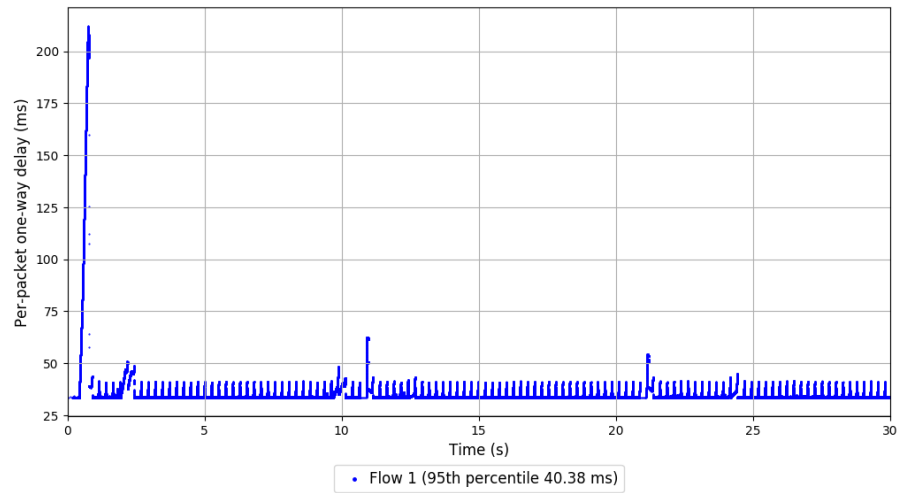
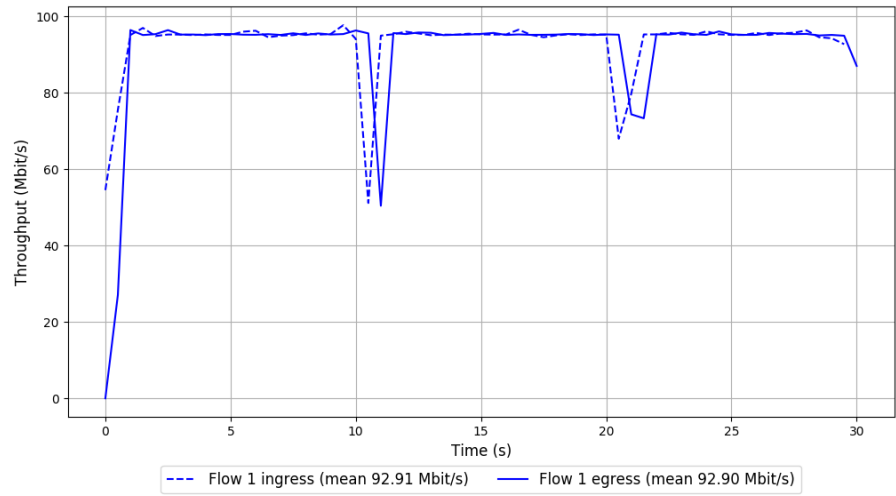


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-25 12:29:40  
End at: 2019-01-25 12:30:10  
Local clock offset: 1.655 ms  
Remote clock offset: -1.554 ms

# Below is generated by plot.py at 2019-01-25 12:54:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.90 Mbit/s  
95th percentile per-packet one-way delay: 40.383 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 92.90 Mbit/s  
95th percentile per-packet one-way delay: 40.383 ms  
Loss rate: 0.22%

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

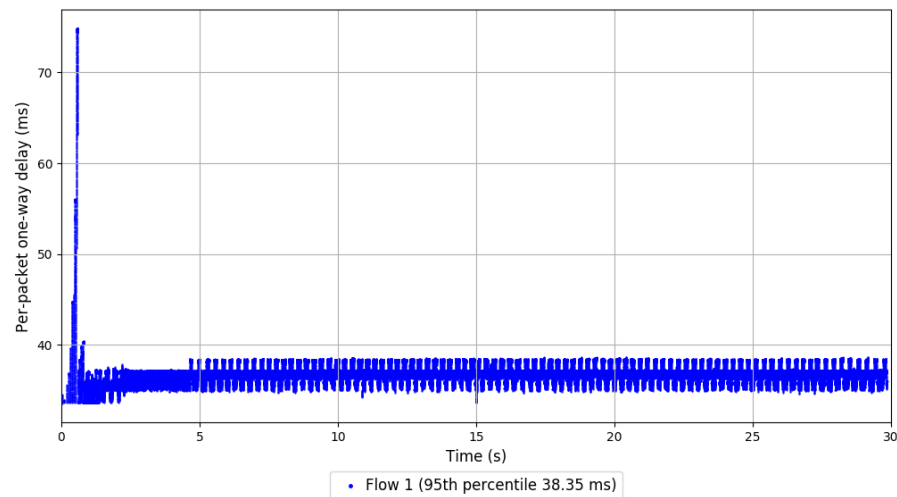
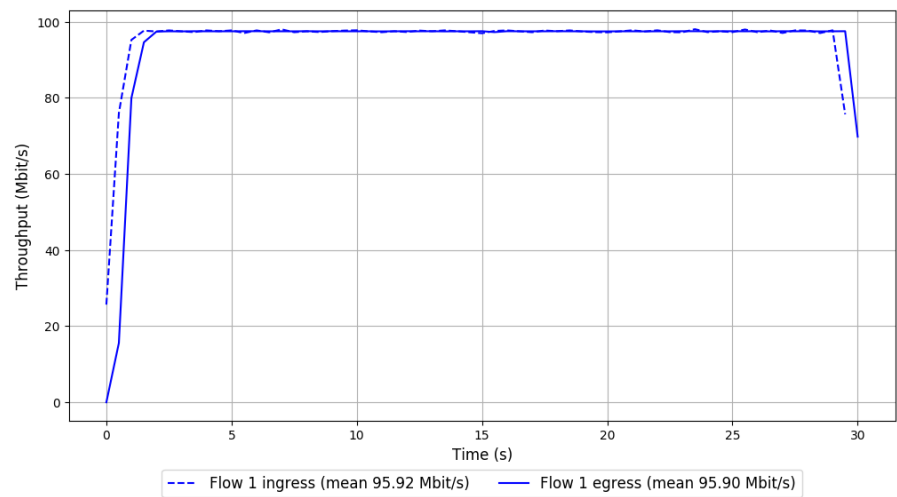


Run 1: Statistics of Indigo

Start at: 2019-01-25 11:03:53  
End at: 2019-01-25 11:04:23  
Local clock offset: -4.024 ms  
Remote clock offset: -2.829 ms

# Below is generated by plot.py at 2019-01-25 12:54:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.90 Mbit/s  
95th percentile per-packet one-way delay: 38.347 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 95.90 Mbit/s  
95th percentile per-packet one-way delay: 38.347 ms  
Loss rate: 0.23%

Run 1: Report of Indigo — Data Link

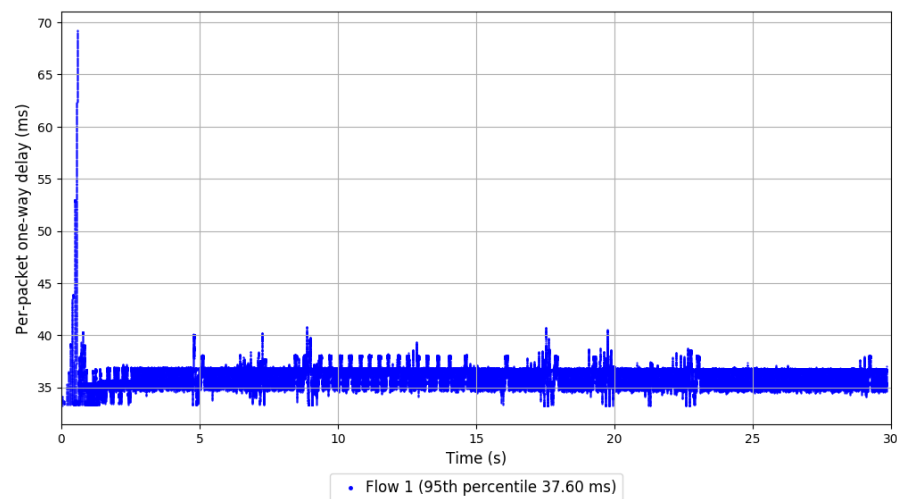
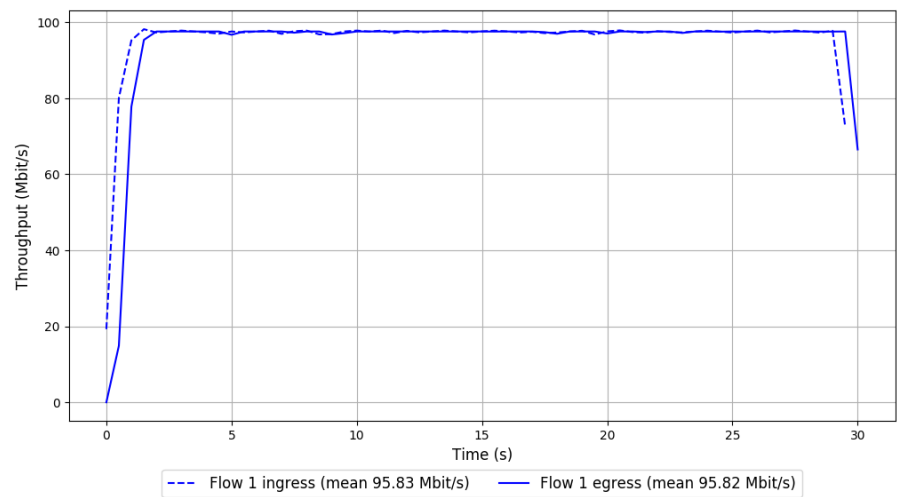


Run 2: Statistics of Indigo

Start at: 2019-01-25 11:29:28  
End at: 2019-01-25 11:29:58  
Local clock offset: -5.105 ms  
Remote clock offset: -1.831 ms

# Below is generated by plot.py at 2019-01-25 12:54:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 37.599 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 37.599 ms  
Loss rate: 0.23%

Run 2: Report of Indigo — Data Link

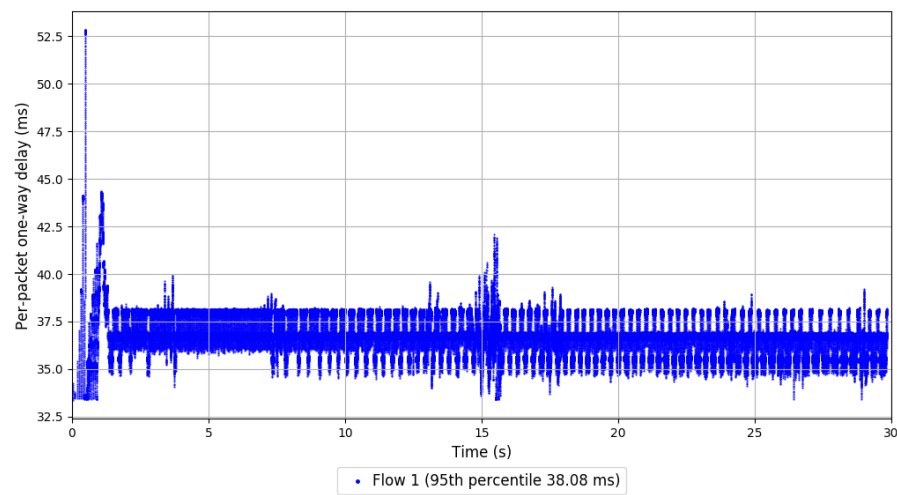
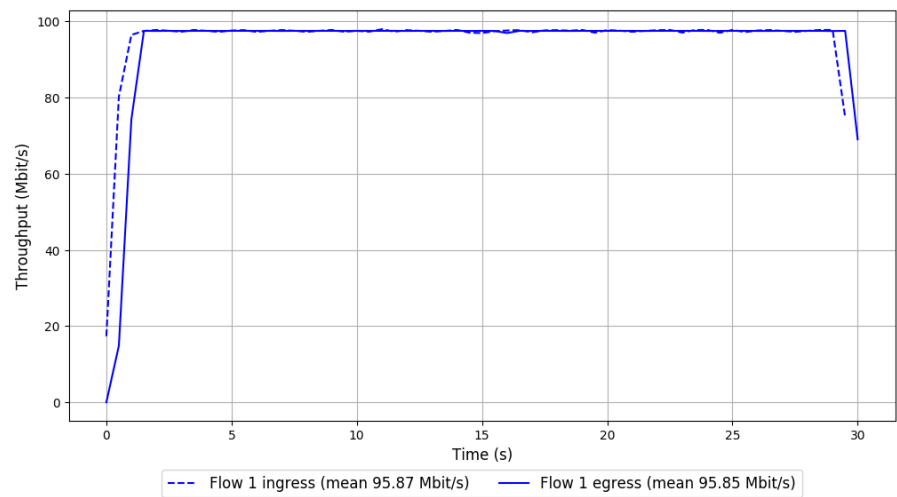


Run 3: Statistics of Indigo

Start at: 2019-01-25 11:54:36  
End at: 2019-01-25 11:55:06  
Local clock offset: -2.415 ms  
Remote clock offset: -1.566 ms

# Below is generated by plot.py at 2019-01-25 12:54:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.85 Mbit/s  
95th percentile per-packet one-way delay: 38.083 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 95.85 Mbit/s  
95th percentile per-packet one-way delay: 38.083 ms  
Loss rate: 0.23%

Run 3: Report of Indigo — Data Link



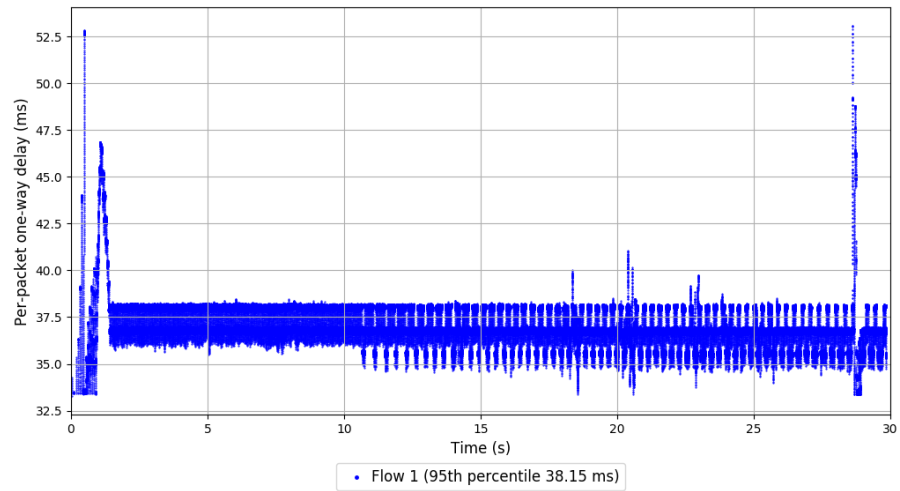
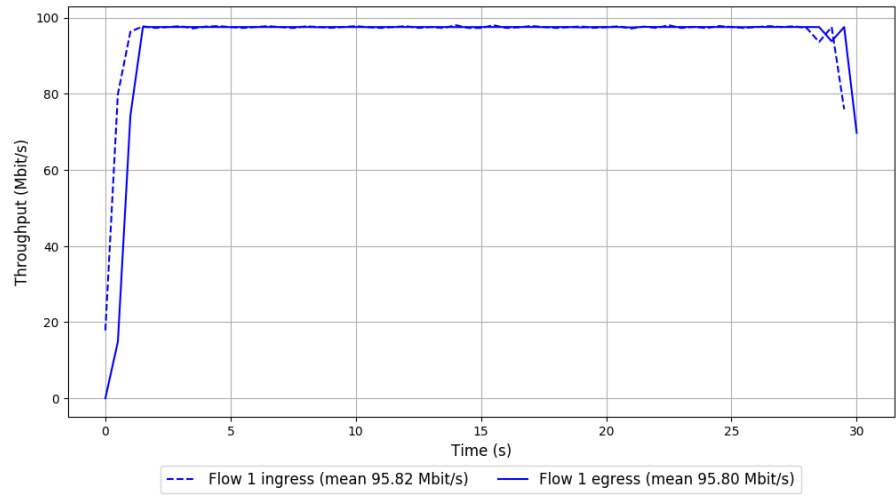


Run 4: Statistics of Indigo

Start at: 2019-01-25 12:19:59  
End at: 2019-01-25 12:20:29  
Local clock offset: 1.052 ms  
Remote clock offset: -1.498 ms

# Below is generated by plot.py at 2019-01-25 12:54:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.80 Mbit/s  
95th percentile per-packet one-way delay: 38.146 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 95.80 Mbit/s  
95th percentile per-packet one-way delay: 38.146 ms  
Loss rate: 0.23%

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

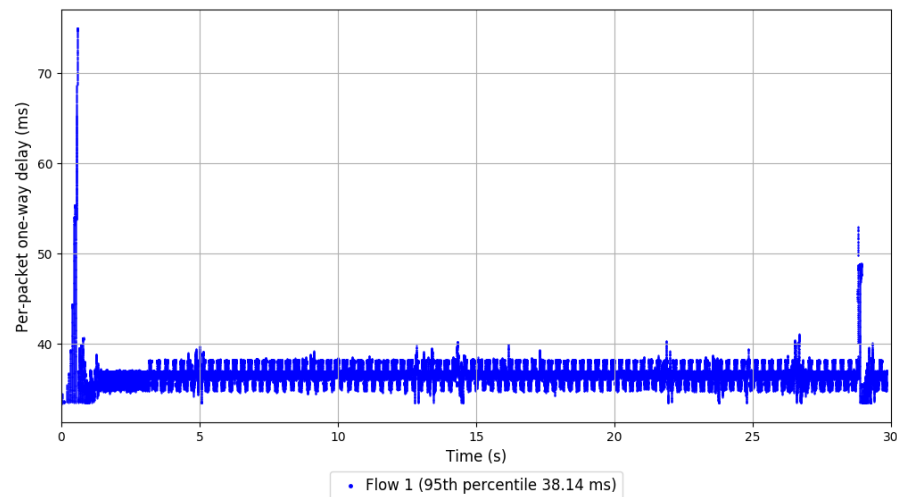
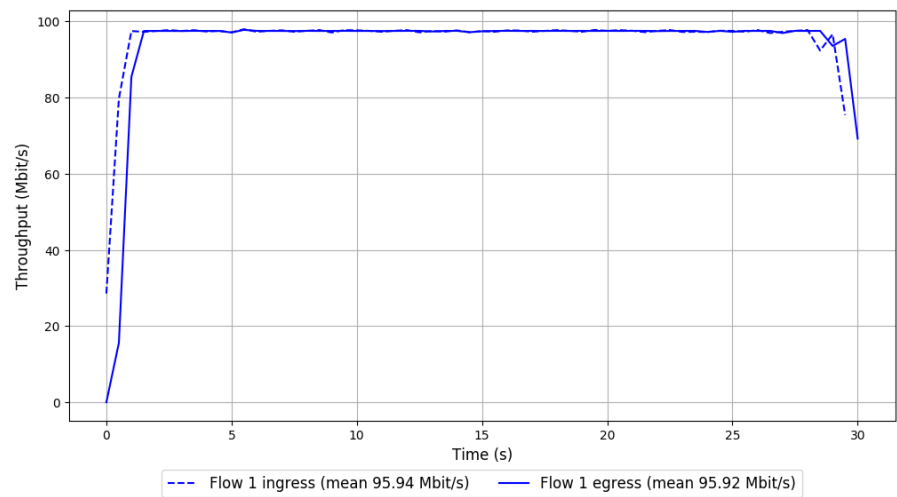


Run 5: Statistics of Indigo

Start at: 2019-01-25 12:44:54  
End at: 2019-01-25 12:45:24  
Local clock offset: 0.863 ms  
Remote clock offset: -1.579 ms

# Below is generated by plot.py at 2019-01-25 12:54:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.92 Mbit/s  
95th percentile per-packet one-way delay: 38.136 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 95.92 Mbit/s  
95th percentile per-packet one-way delay: 38.136 ms  
Loss rate: 0.23%

Run 5: Report of Indigo — Data Link

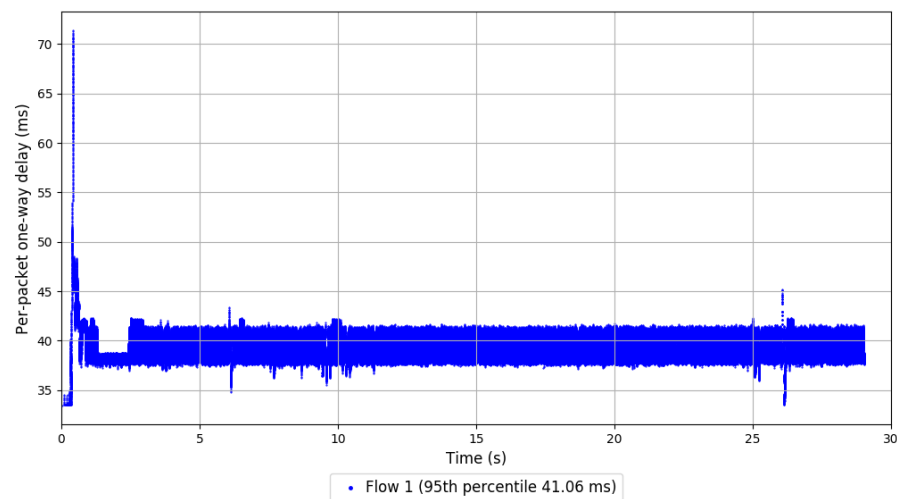
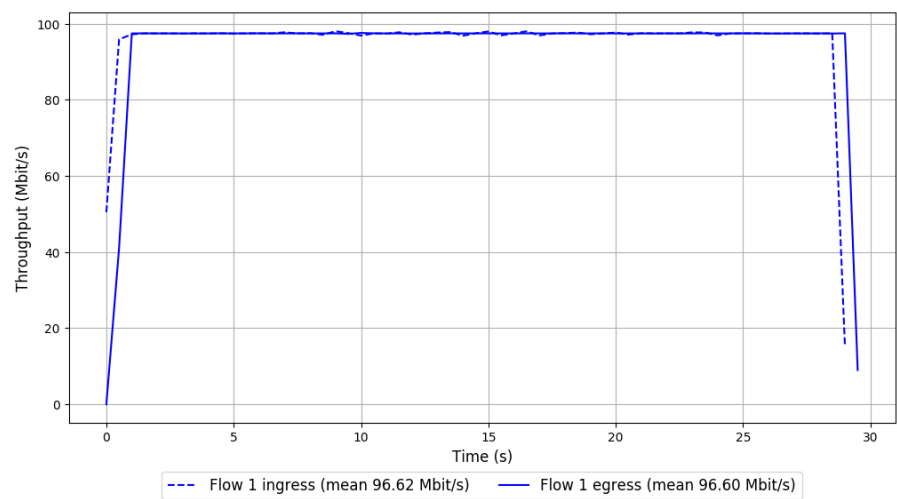


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-25 10:49:17  
End at: 2019-01-25 10:49:47  
Local clock offset: -3.162 ms  
Remote clock offset: -3.037 ms

# Below is generated by plot.py at 2019-01-25 12:54:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.60 Mbit/s  
95th percentile per-packet one-way delay: 41.061 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 96.60 Mbit/s  
95th percentile per-packet one-way delay: 41.061 ms  
Loss rate: 0.24%

Run 1: Report of Indigo-MusesC3 — Data Link

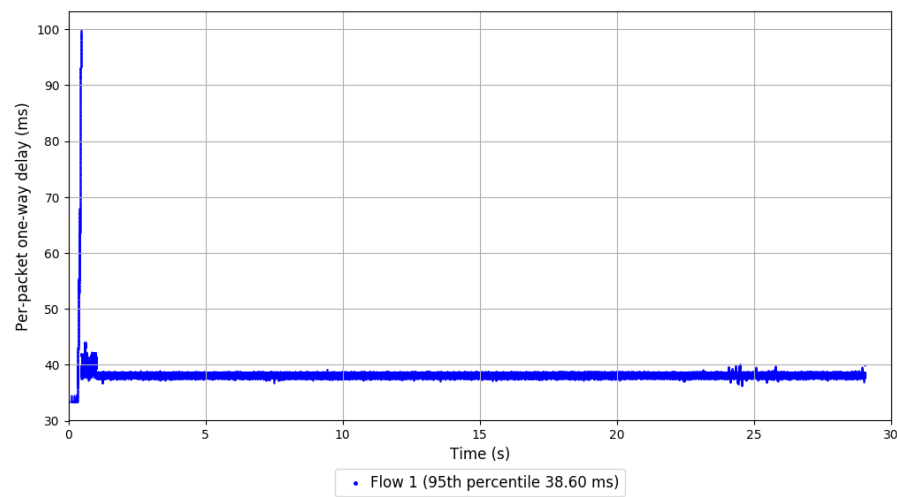
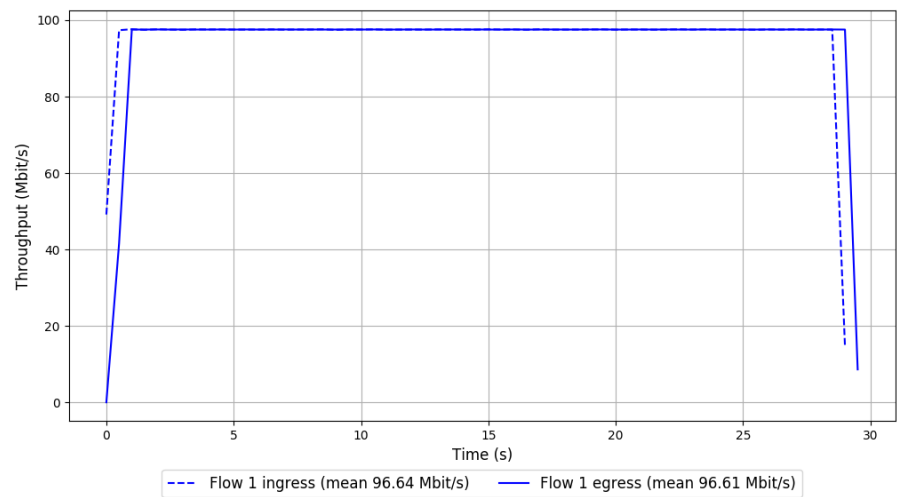


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:15:04  
End at: 2019-01-25 11:15:34  
Local clock offset: -4.546 ms  
Remote clock offset: -2.272 ms

# Below is generated by plot.py at 2019-01-25 12:55:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.61 Mbit/s  
95th percentile per-packet one-way delay: 38.602 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 96.61 Mbit/s  
95th percentile per-packet one-way delay: 38.602 ms  
Loss rate: 0.24%

Run 2: Report of Indigo-MusesC3 — Data Link



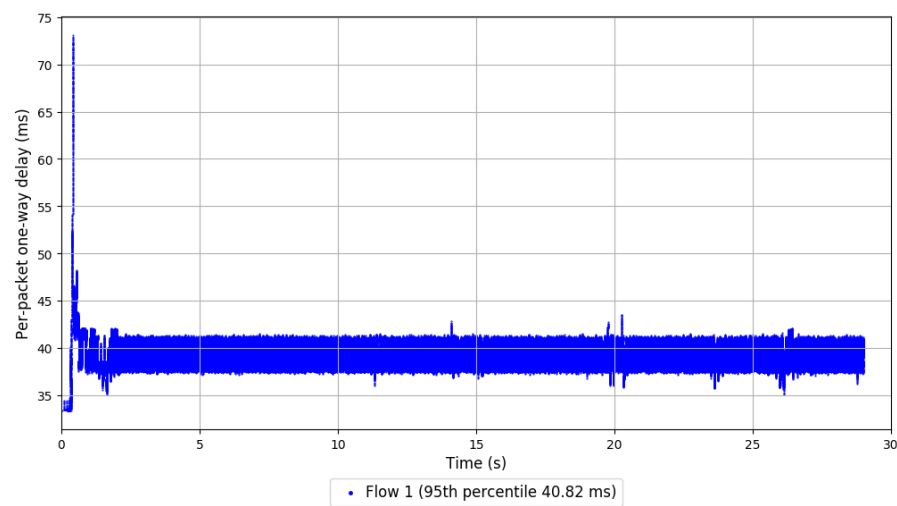
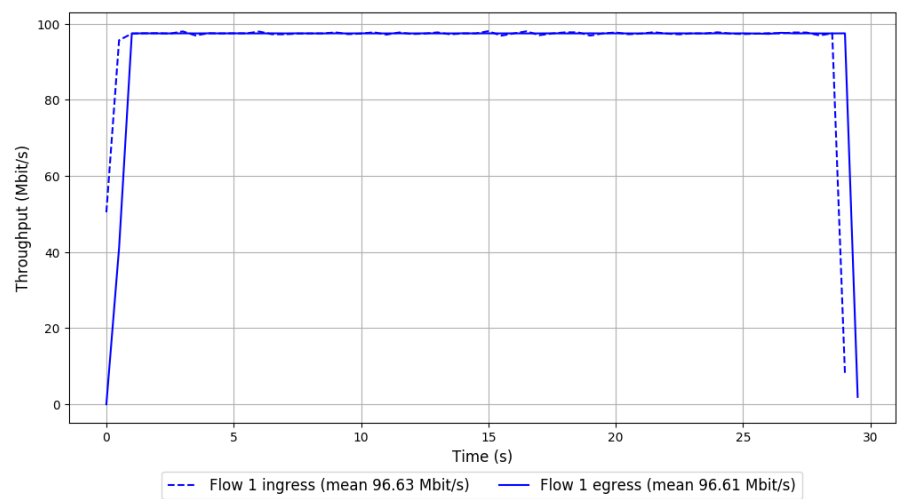


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-25 11:40:26  
End at: 2019-01-25 11:40:56  
Local clock offset: -3.11 ms  
Remote clock offset: -1.507 ms

# Below is generated by plot.py at 2019-01-25 12:55:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.61 Mbit/s  
95th percentile per-packet one-way delay: 40.819 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 96.61 Mbit/s  
95th percentile per-packet one-way delay: 40.819 ms  
Loss rate: 0.24%

Run 3: Report of Indigo-MusesC3 — Data Link

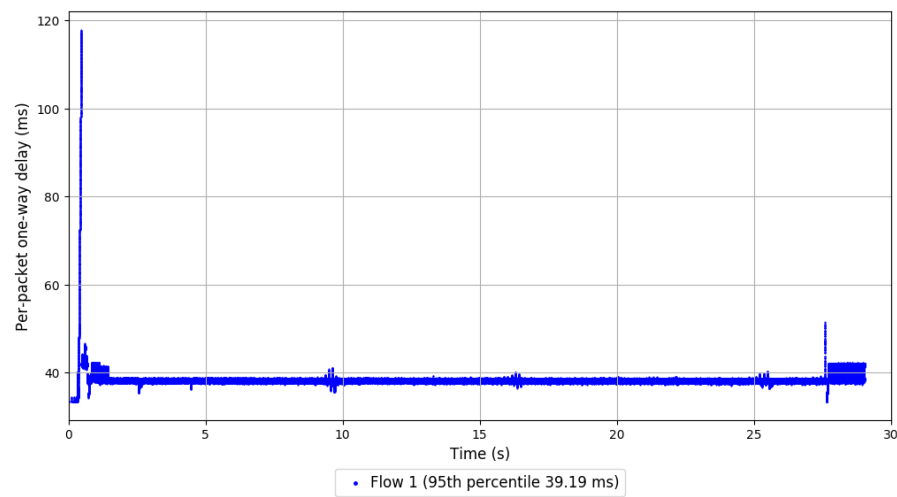
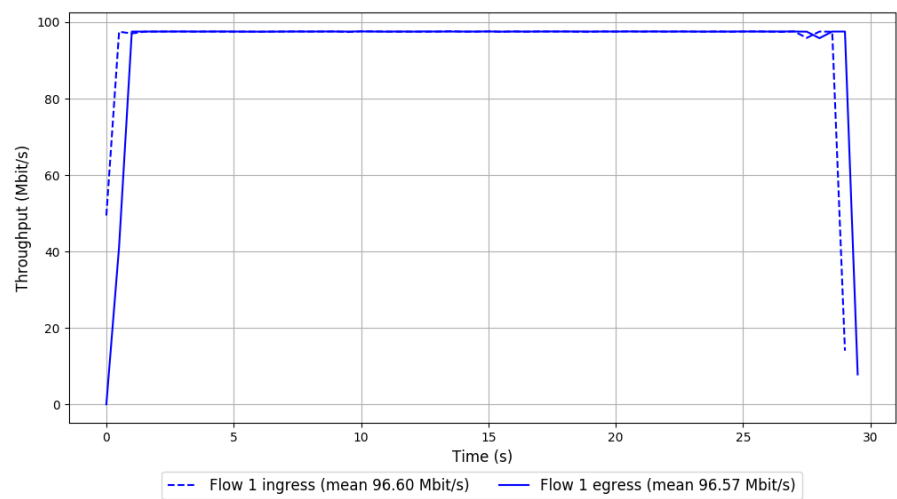


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-25 12:05:39  
End at: 2019-01-25 12:06:09  
Local clock offset: -0.667 ms  
Remote clock offset: -1.724 ms

# Below is generated by plot.py at 2019-01-25 12:55:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.57 Mbit/s  
95th percentile per-packet one-way delay: 39.192 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 96.57 Mbit/s  
95th percentile per-packet one-way delay: 39.192 ms  
Loss rate: 0.25%

Run 4: Report of Indigo-MusesC3 — Data Link

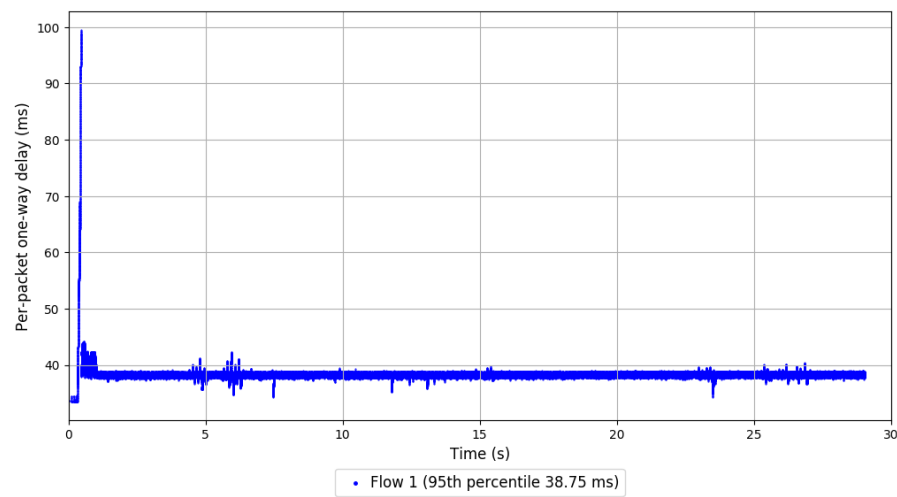
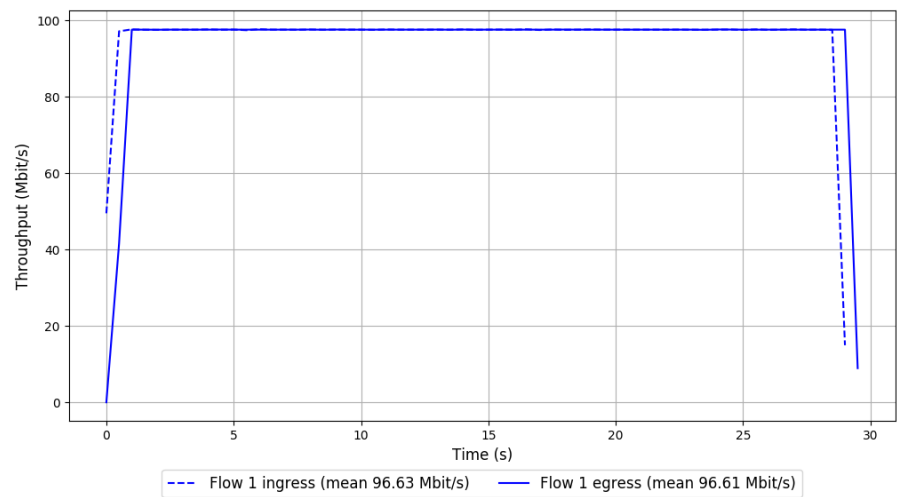


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-25 12:30:52  
End at: 2019-01-25 12:31:22  
Local clock offset: 1.482 ms  
Remote clock offset: -1.545 ms

# Below is generated by plot.py at 2019-01-25 12:55:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.61 Mbit/s  
95th percentile per-packet one-way delay: 38.747 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 96.61 Mbit/s  
95th percentile per-packet one-way delay: 38.747 ms  
Loss rate: 0.24%

Run 5: Report of Indigo-MusesC3 — Data Link

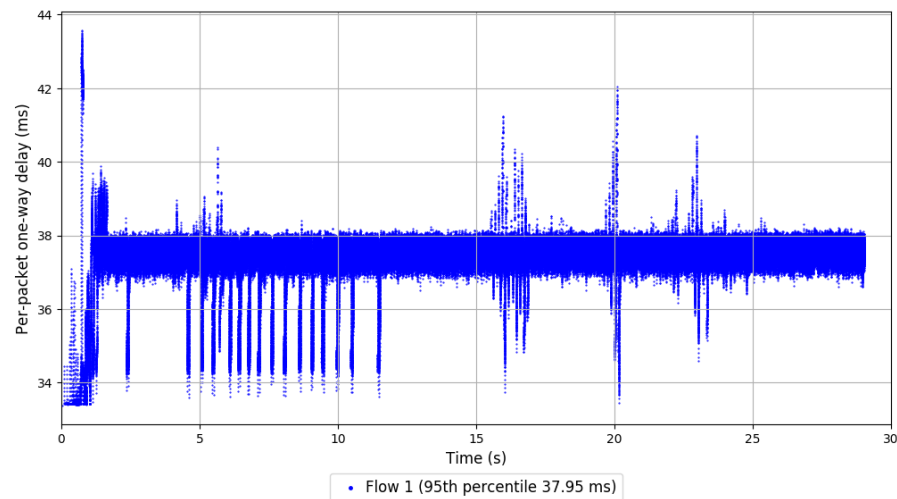
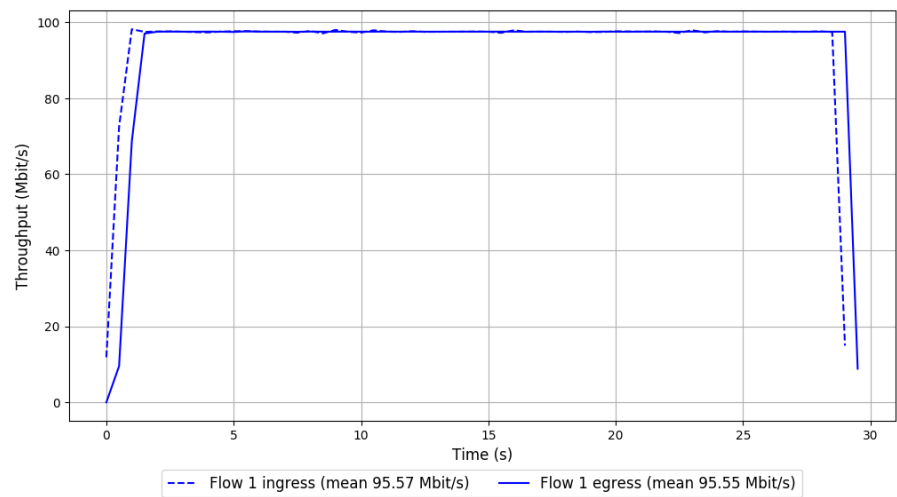


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-25 10:45:31  
End at: 2019-01-25 10:46:01  
Local clock offset: -2.856 ms  
Remote clock offset: -3.151 ms

# Below is generated by plot.py at 2019-01-25 12:55:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.55 Mbit/s  
95th percentile per-packet one-way delay: 37.950 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 95.55 Mbit/s  
95th percentile per-packet one-way delay: 37.950 ms  
Loss rate: 0.24%

Run 1: Report of Indigo-MusesC5 — Data Link



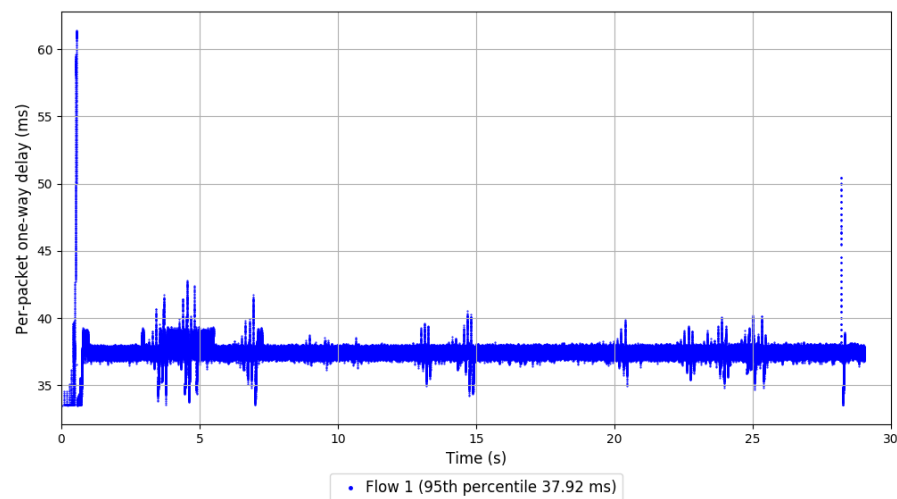
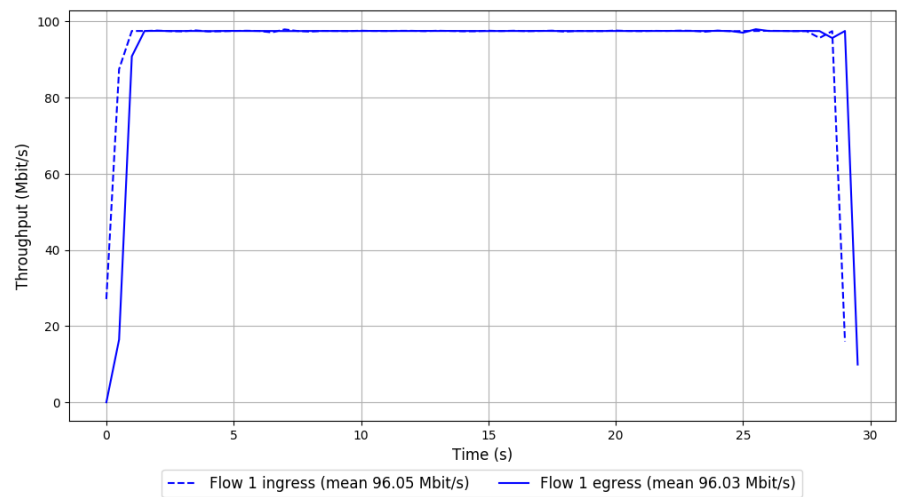


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-25 11:11:20  
End at: 2019-01-25 11:11:50  
Local clock offset: -4.365 ms  
Remote clock offset: -2.396 ms

# Below is generated by plot.py at 2019-01-25 12:55:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.03 Mbit/s  
95th percentile per-packet one-way delay: 37.919 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 96.03 Mbit/s  
95th percentile per-packet one-way delay: 37.919 ms  
Loss rate: 0.24%

Run 2: Report of Indigo-MusesC5 — Data Link

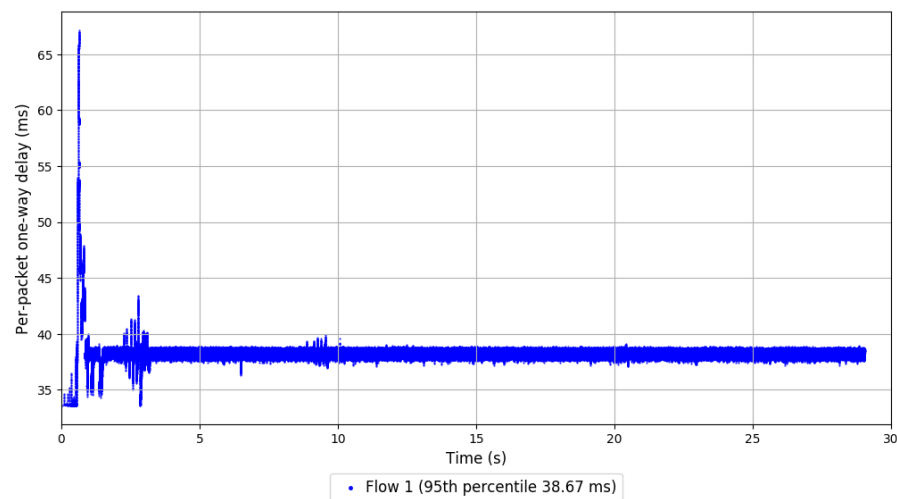
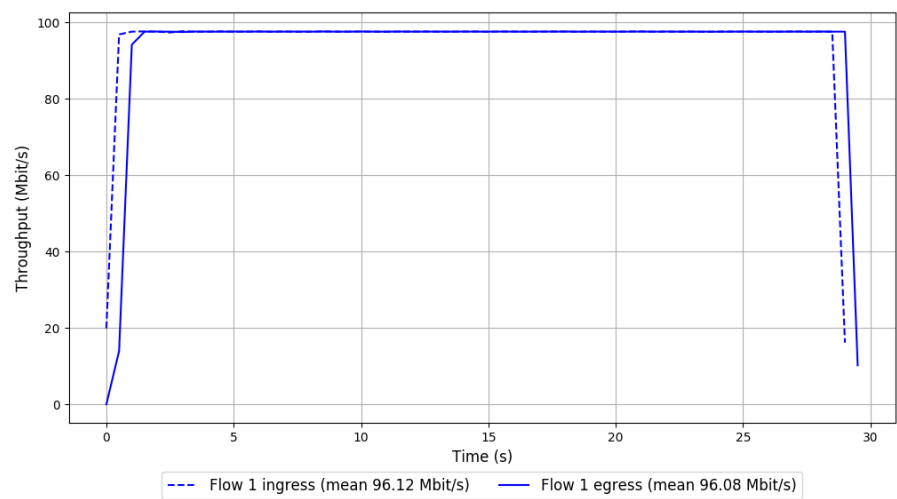


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-25 11:36:51  
End at: 2019-01-25 11:37:21  
Local clock offset: -3.511 ms  
Remote clock offset: -1.762 ms

# Below is generated by plot.py at 2019-01-25 12:55:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 38.670 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 38.670 ms  
Loss rate: 0.26%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-25 12:01:58

End at: 2019-01-25 12:02:28

Local clock offset: -1.547 ms

Remote clock offset: -1.55 ms

# Below is generated by plot.py at 2019-01-25 12:55:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 37.655 ms

Loss rate: 0.23%

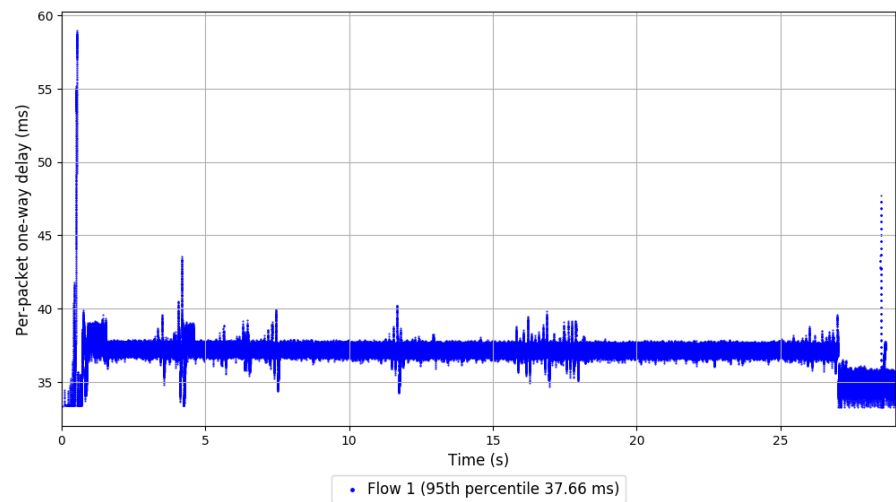
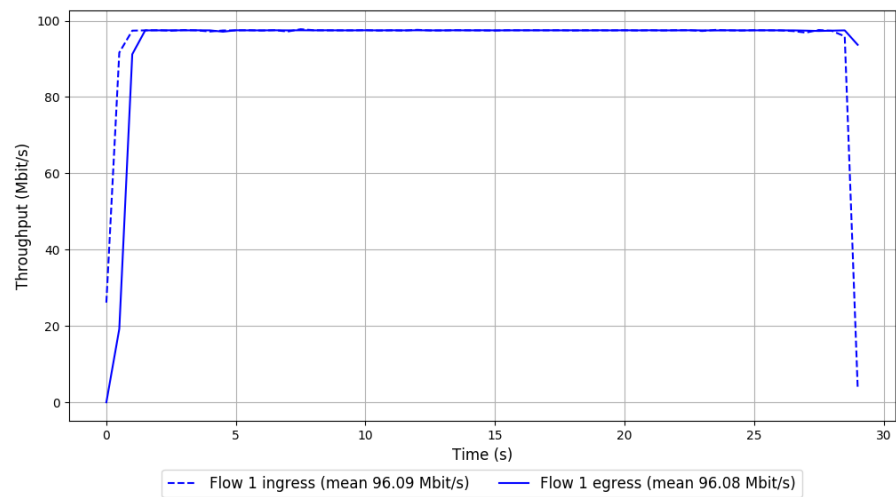
-- Flow 1:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 37.655 ms

Loss rate: 0.23%

Run 4: Report of Indigo-MusesC5 — Data Link

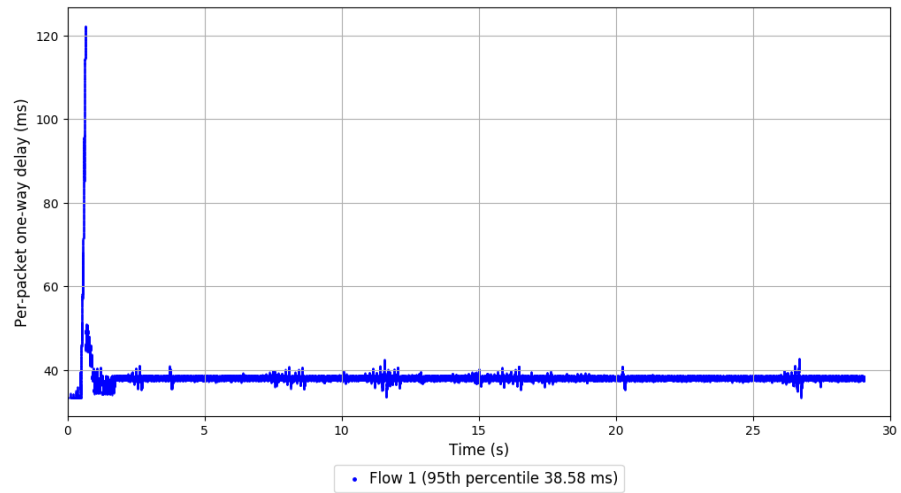
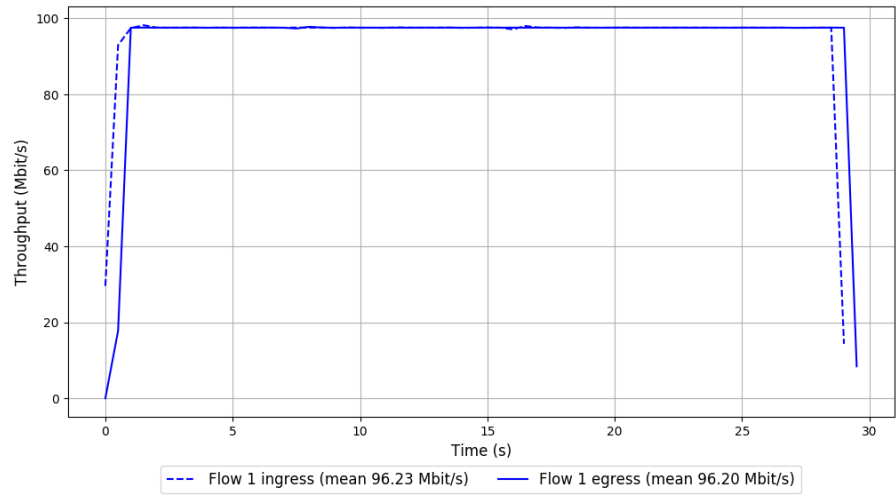


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-25 12:27:11  
End at: 2019-01-25 12:27:41  
Local clock offset: 1.538 ms  
Remote clock offset: -1.523 ms

# Below is generated by plot.py at 2019-01-25 12:56:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.20 Mbit/s  
95th percentile per-packet one-way delay: 38.581 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 96.20 Mbit/s  
95th percentile per-packet one-way delay: 38.581 ms  
Loss rate: 0.24%

## Run 5: Report of Indigo-MusesC5 — Data Link



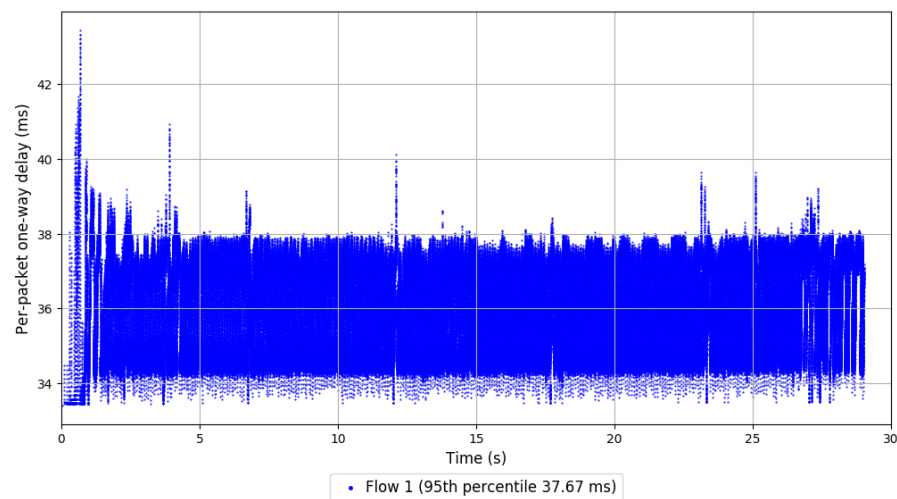
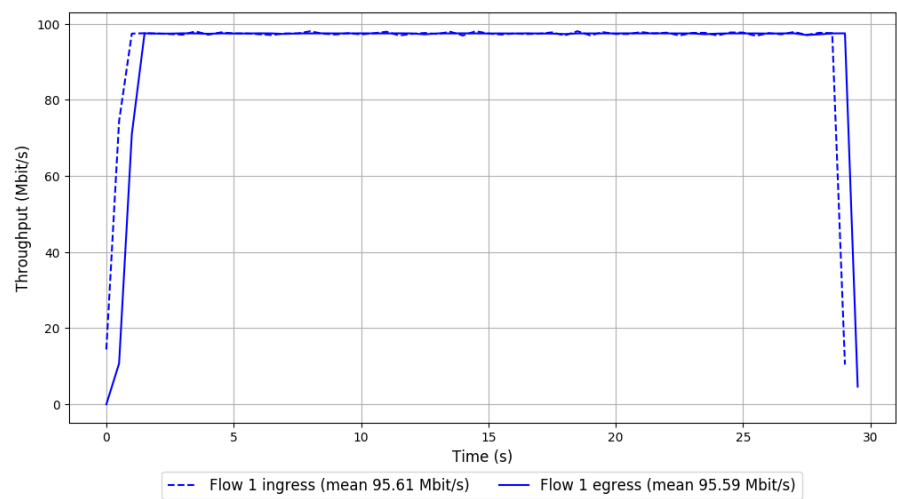


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-25 10:44:01
End at: 2019-01-25 10:44:31
Local clock offset: -2.702 ms
Remote clock offset: -3.167 ms

# Below is generated by plot.py at 2019-01-25 12:56:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 37.668 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 37.668 ms
Loss rate: 0.24%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-25 11:10:06

End at: 2019-01-25 11:10:36

Local clock offset: -4.308 ms

Remote clock offset: -2.467 ms

# Below is generated by plot.py at 2019-01-25 12:56:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 36.518 ms

Loss rate: 0.23%

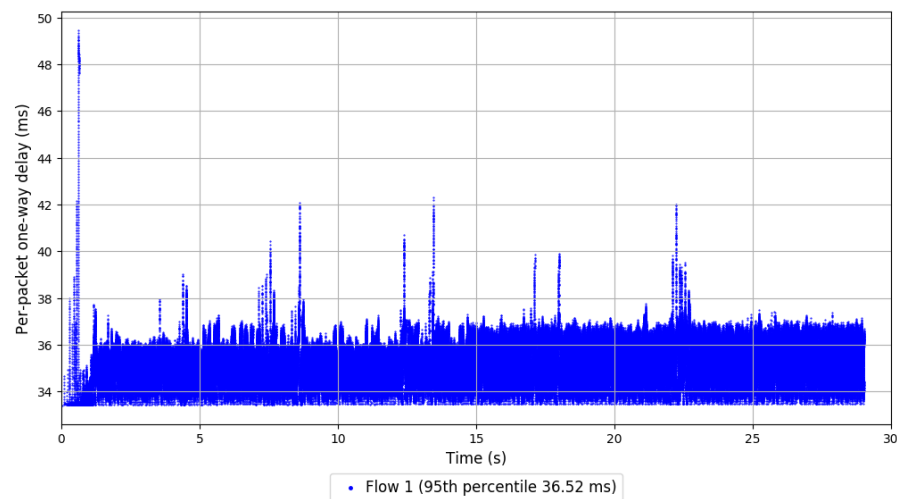
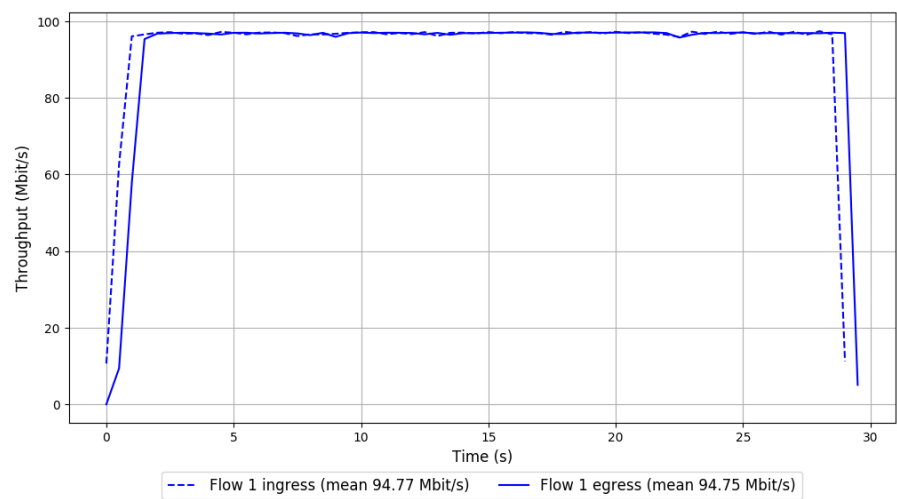
-- Flow 1:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 36.518 ms

Loss rate: 0.23%

Run 2: Report of Indigo-MusesD — Data Link

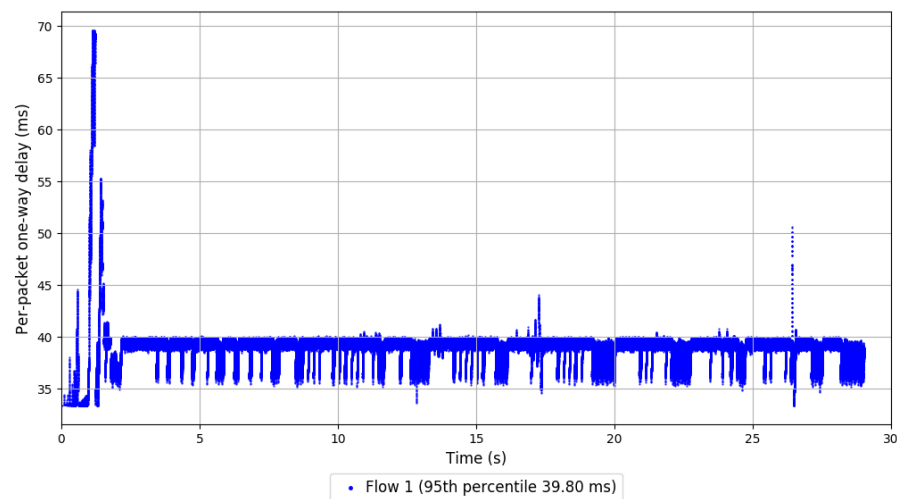
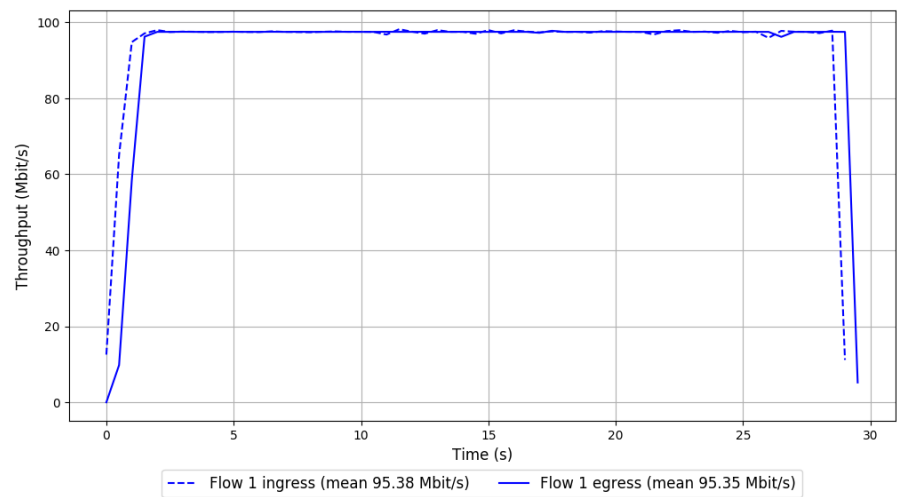


Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-25 11:35:37  
End at: 2019-01-25 11:36:07  
Local clock offset: -3.705 ms  
Remote clock offset: -1.605 ms

# Below is generated by plot.py at 2019-01-25 12:56:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.35 Mbit/s  
95th percentile per-packet one-way delay: 39.805 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 95.35 Mbit/s  
95th percentile per-packet one-way delay: 39.805 ms  
Loss rate: 0.25%

Run 3: Report of Indigo-MusesD — Data Link

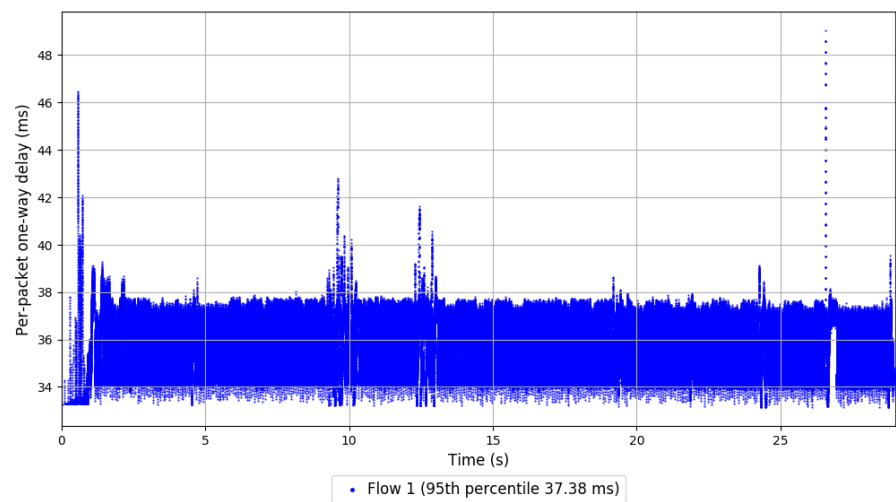
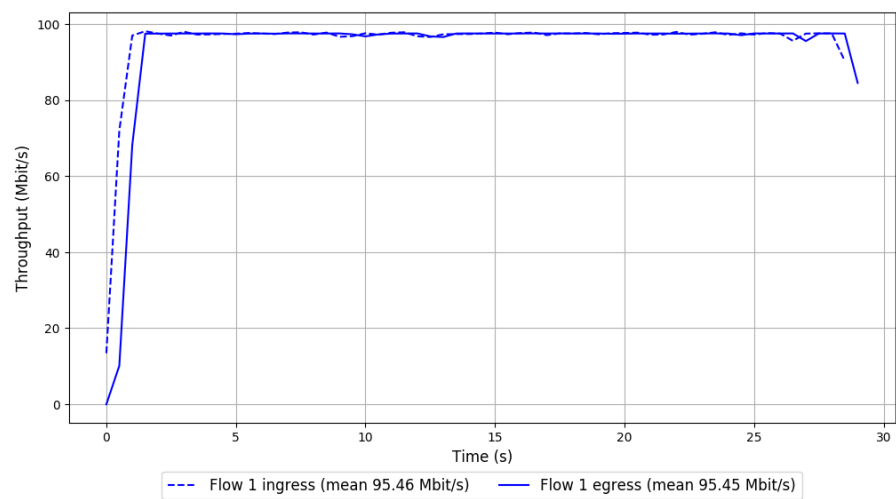


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-25 12:00:38  
End at: 2019-01-25 12:01:08  
Local clock offset: -1.984 ms  
Remote clock offset: -1.558 ms

# Below is generated by plot.py at 2019-01-25 12:56:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.45 Mbit/s  
95th percentile per-packet one-way delay: 37.383 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 95.45 Mbit/s  
95th percentile per-packet one-way delay: 37.383 ms  
Loss rate: 0.23%

Run 4: Report of Indigo-MusesD — Data Link



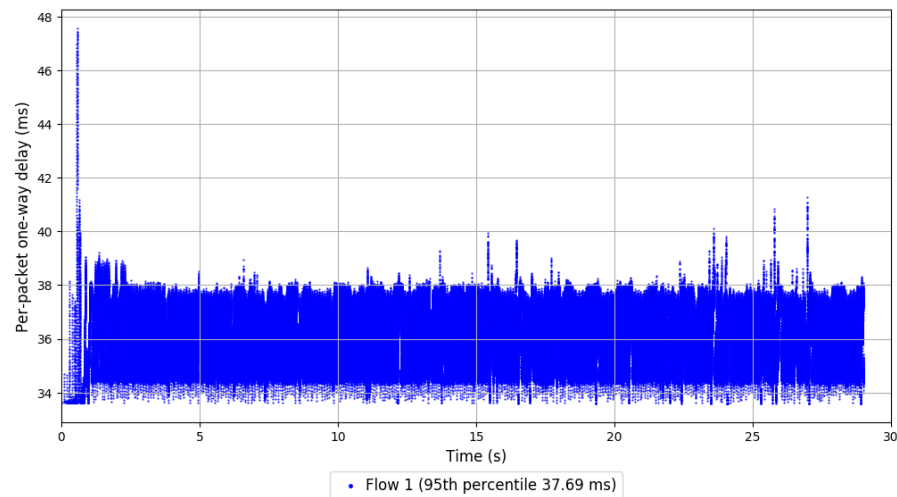
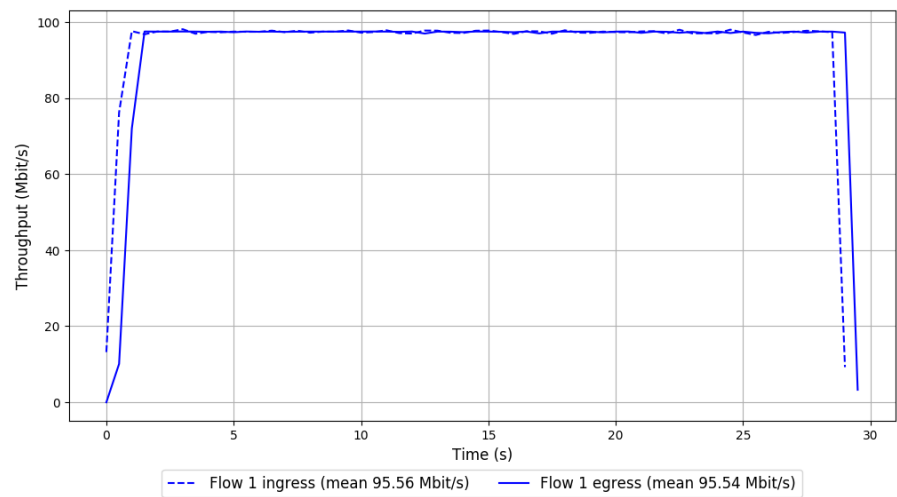


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-25 12:26:01  
End at: 2019-01-25 12:26:31  
Local clock offset: 1.446 ms  
Remote clock offset: -1.688 ms

# Below is generated by plot.py at 2019-01-25 12:56:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.54 Mbit/s  
95th percentile per-packet one-way delay: 37.686 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 95.54 Mbit/s  
95th percentile per-packet one-way delay: 37.686 ms  
Loss rate: 0.24%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:02:39

End at: 2019-01-25 11:03:09

Local clock offset: -3.957 ms

Remote clock offset: -2.69 ms

# Below is generated by plot.py at 2019-01-25 12:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 46.745 ms

Loss rate: 0.44%

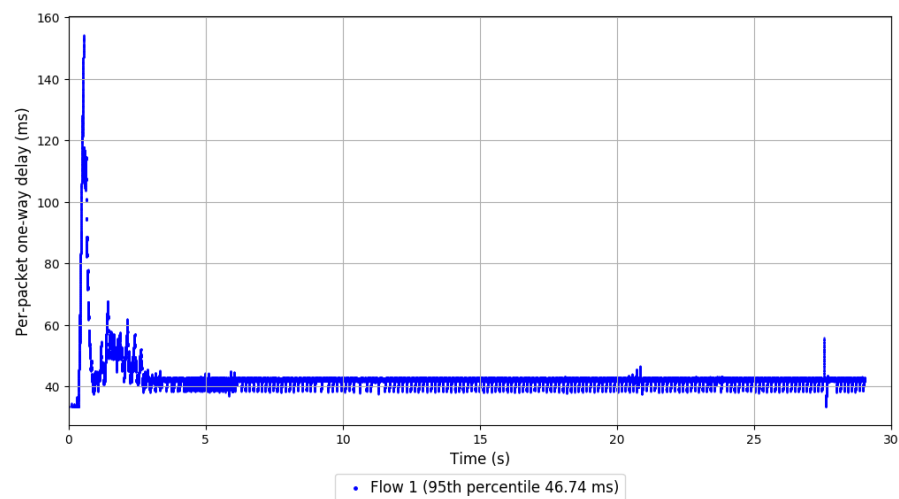
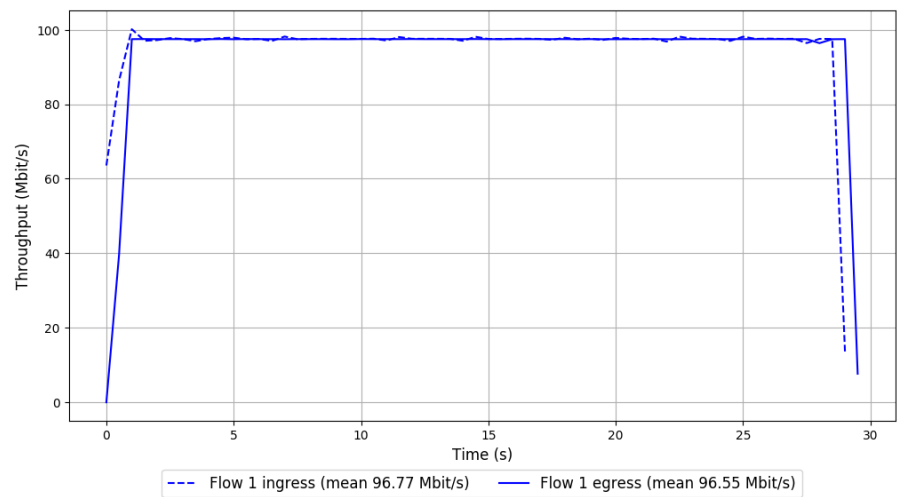
-- Flow 1:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 46.745 ms

Loss rate: 0.44%

Run 1: Report of Indigo-MusesT — Data Link

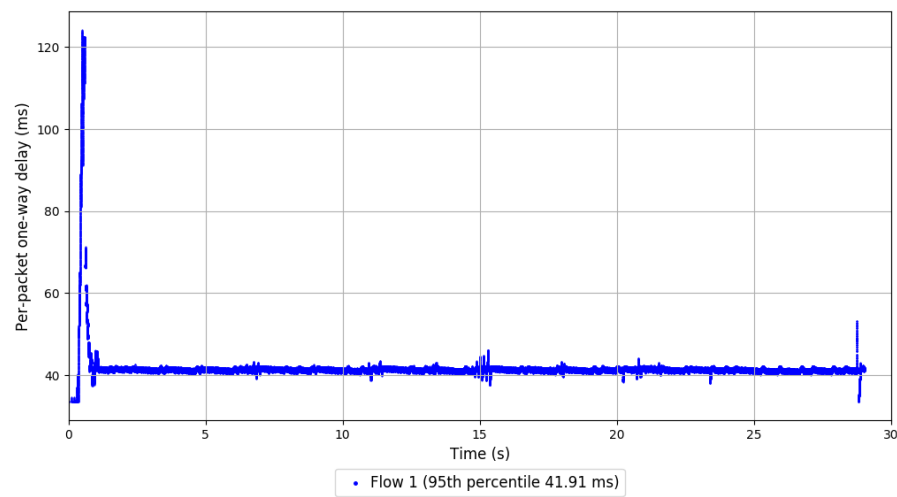
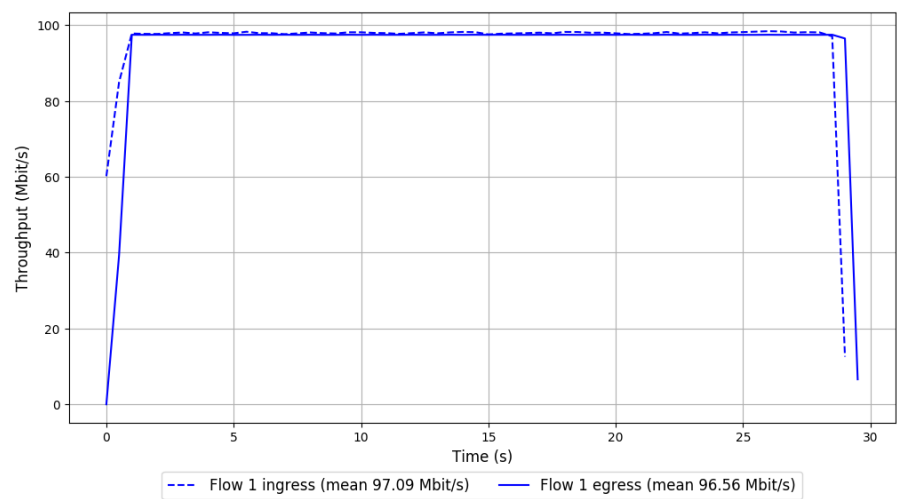


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:28:13  
End at: 2019-01-25 11:28:43  
Local clock offset: -5.065 ms  
Remote clock offset: -1.865 ms

# Below is generated by plot.py at 2019-01-25 12:56:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.56 Mbit/s  
95th percentile per-packet one-way delay: 41.905 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 96.56 Mbit/s  
95th percentile per-packet one-way delay: 41.905 ms  
Loss rate: 0.76%

Run 2: Report of Indigo-MusesT — Data Link

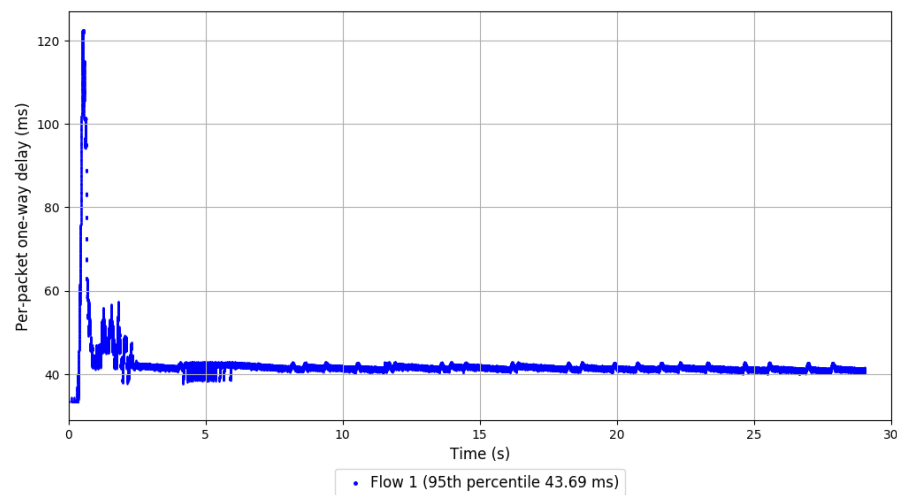
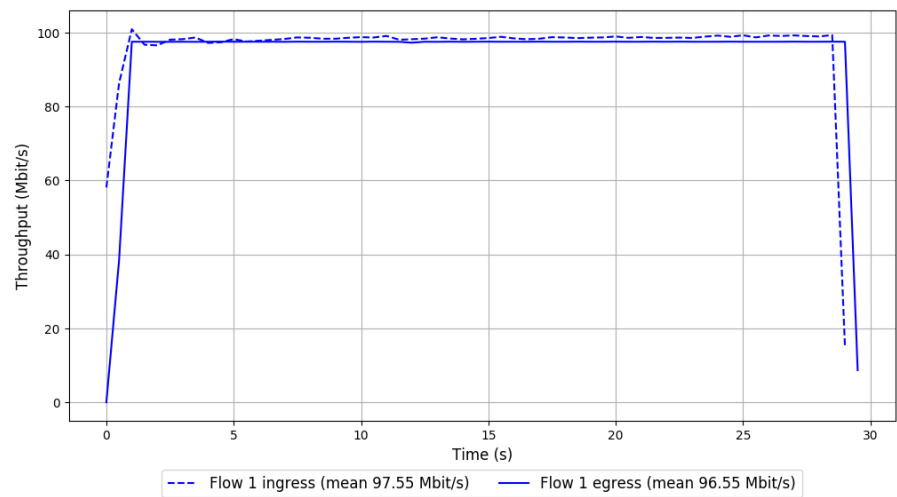


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-25 11:53:25  
End at: 2019-01-25 11:53:55  
Local clock offset: -2.445 ms  
Remote clock offset: -1.545 ms

# Below is generated by plot.py at 2019-01-25 12:57:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.55 Mbit/s  
95th percentile per-packet one-way delay: 43.693 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 96.55 Mbit/s  
95th percentile per-packet one-way delay: 43.693 ms  
Loss rate: 1.24%

Run 3: Report of Indigo-MusesT — Data Link



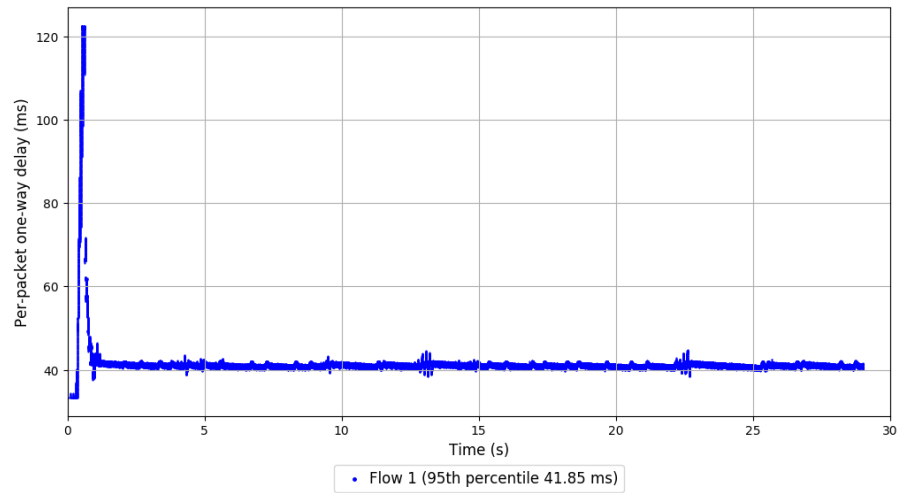
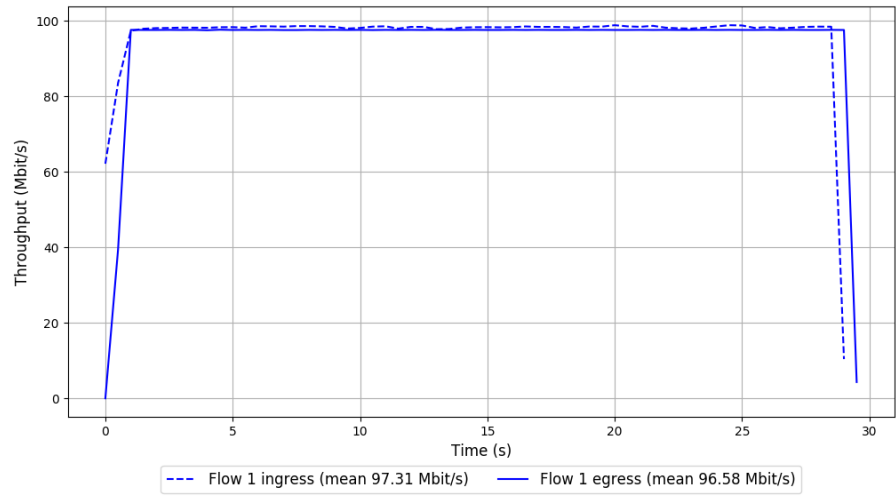


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-25 12:18:35  
End at: 2019-01-25 12:19:05  
Local clock offset: 0.943 ms  
Remote clock offset: -1.505 ms

# Below is generated by plot.py at 2019-01-25 12:57:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.58 Mbit/s  
95th percentile per-packet one-way delay: 41.847 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 96.58 Mbit/s  
95th percentile per-packet one-way delay: 41.847 ms  
Loss rate: 0.97%

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



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-25 12:43:43

End at: 2019-01-25 12:44:13

Local clock offset: 0.86 ms

Remote clock offset: -1.575 ms

# Below is generated by plot.py at 2019-01-25 12:57:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 42.042 ms

Loss rate: 0.61%

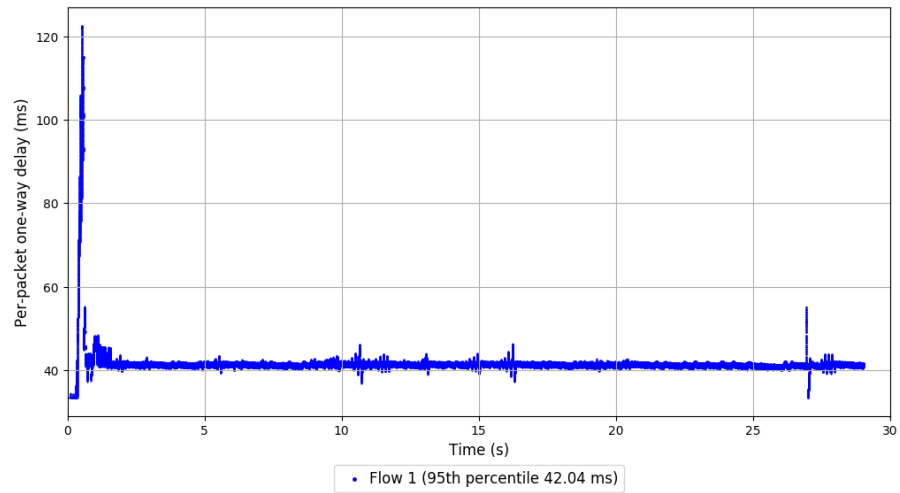
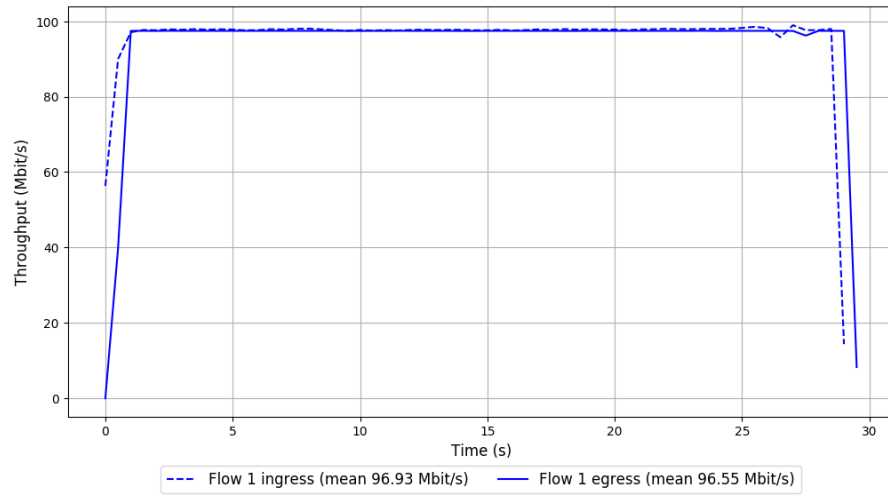
-- Flow 1:

Average throughput: 96.55 Mbit/s

95th percentile per-packet one-way delay: 42.042 ms

Loss rate: 0.61%

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

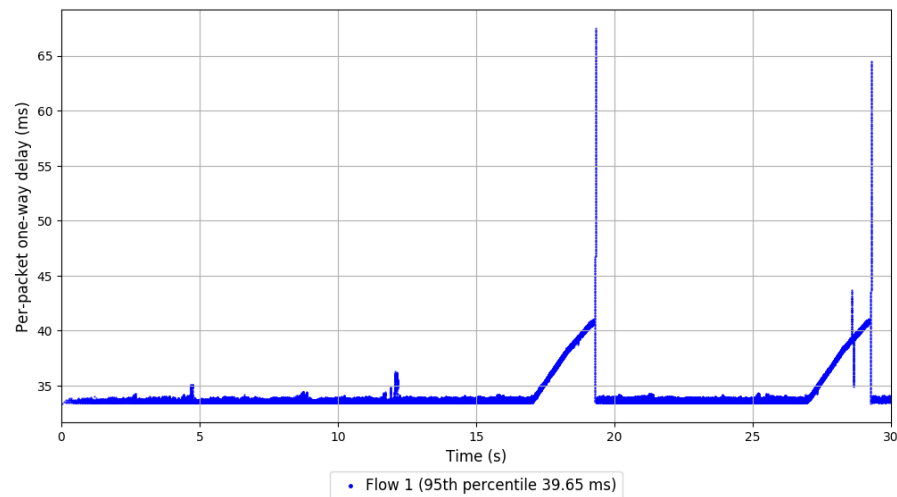
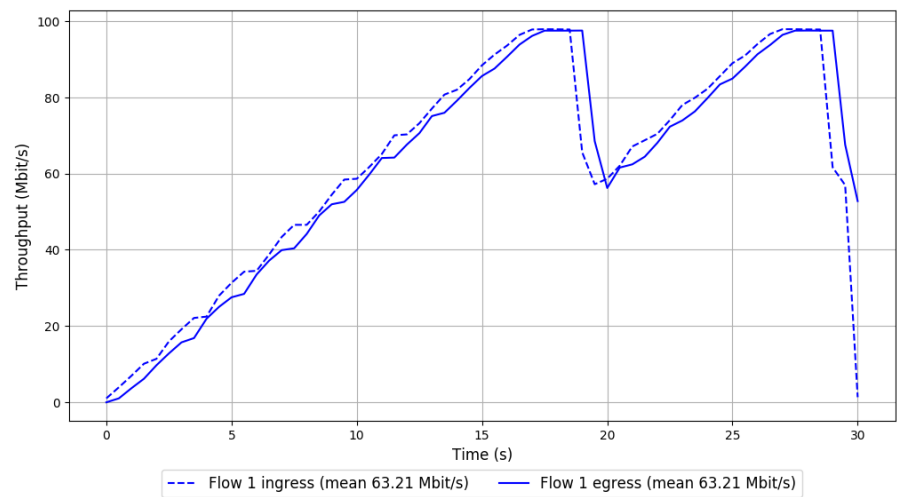


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-25 10:52:46
End at: 2019-01-25 10:53:16
Local clock offset: -3.423 ms
Remote clock offset: -3.004 ms

# Below is generated by plot.py at 2019-01-25 12:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.21 Mbit/s
95th percentile per-packet one-way delay: 39.650 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.21 Mbit/s
95th percentile per-packet one-way delay: 39.650 ms
Loss rate: 0.20%
```

Run 1: Report of LEDBAT — Data Link

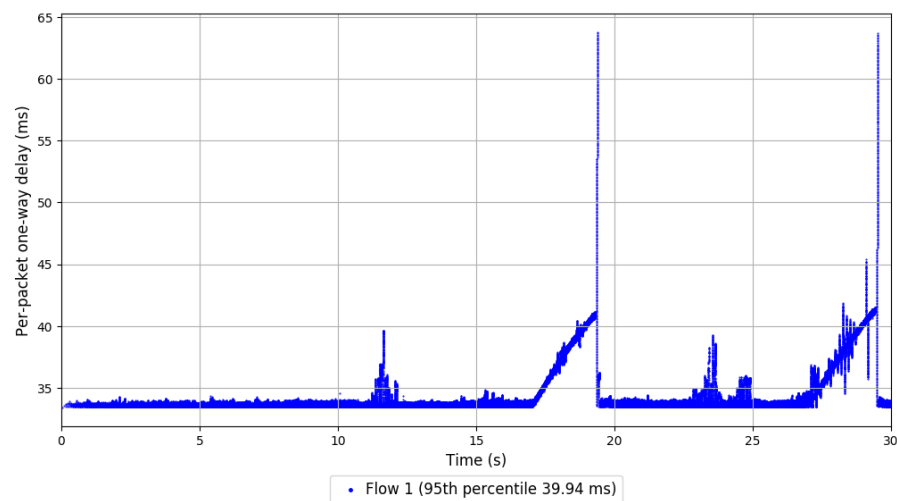
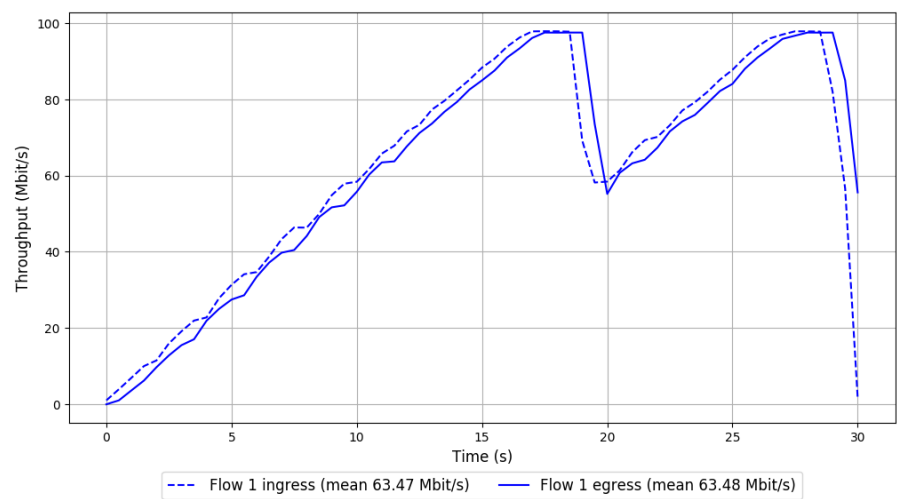


Run 2: Statistics of LEDBAT

Start at: 2019-01-25 11:18:41  
End at: 2019-01-25 11:19:11  
Local clock offset: -4.669 ms  
Remote clock offset: -2.144 ms

# Below is generated by plot.py at 2019-01-25 12:57:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.48 Mbit/s  
95th percentile per-packet one-way delay: 39.937 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 63.48 Mbit/s  
95th percentile per-packet one-way delay: 39.937 ms  
Loss rate: 0.20%

Run 2: Report of LEDBAT — Data Link



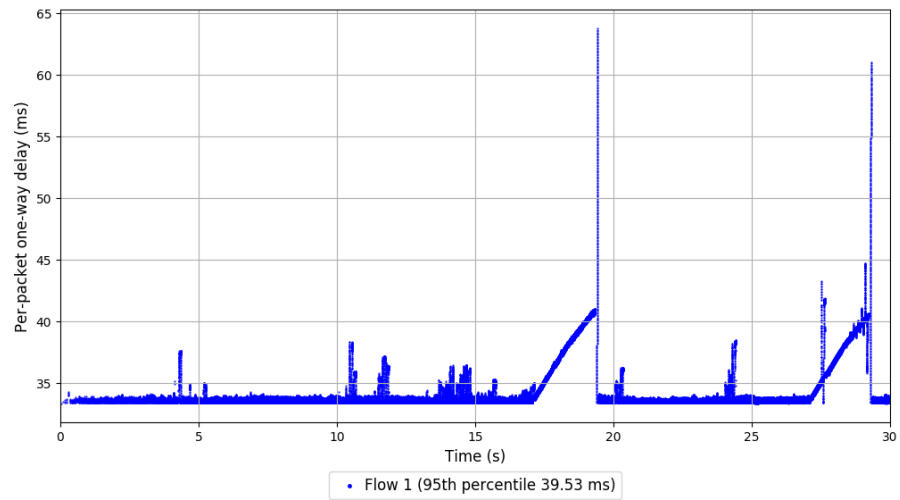
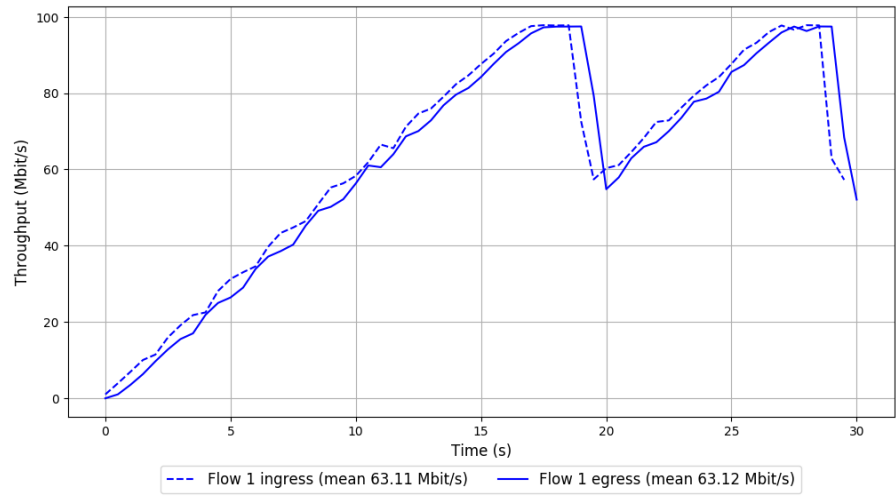


Run 3: Statistics of LEDBAT

Start at: 2019-01-25 11:43:54  
End at: 2019-01-25 11:44:24  
Local clock offset: -2.829 ms  
Remote clock offset: -1.529 ms

# Below is generated by plot.py at 2019-01-25 12:57:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.12 Mbit/s  
95th percentile per-packet one-way delay: 39.528 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 63.12 Mbit/s  
95th percentile per-packet one-way delay: 39.528 ms  
Loss rate: 0.20%

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

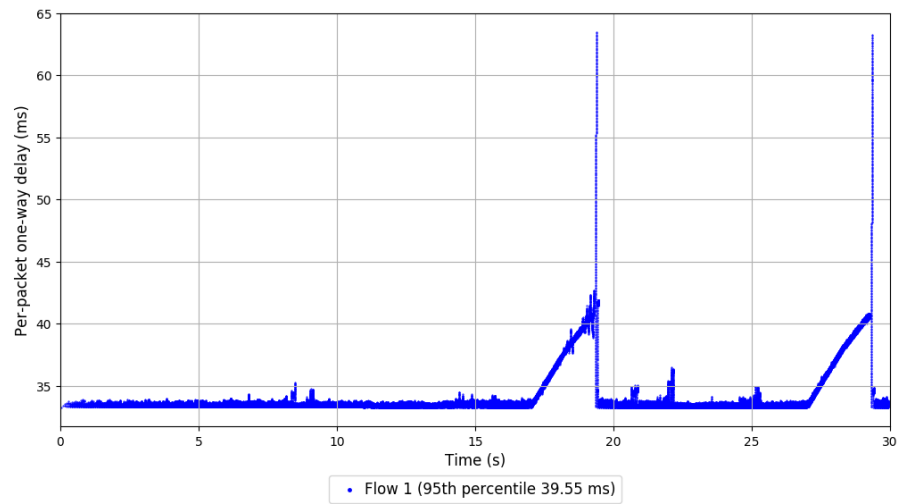
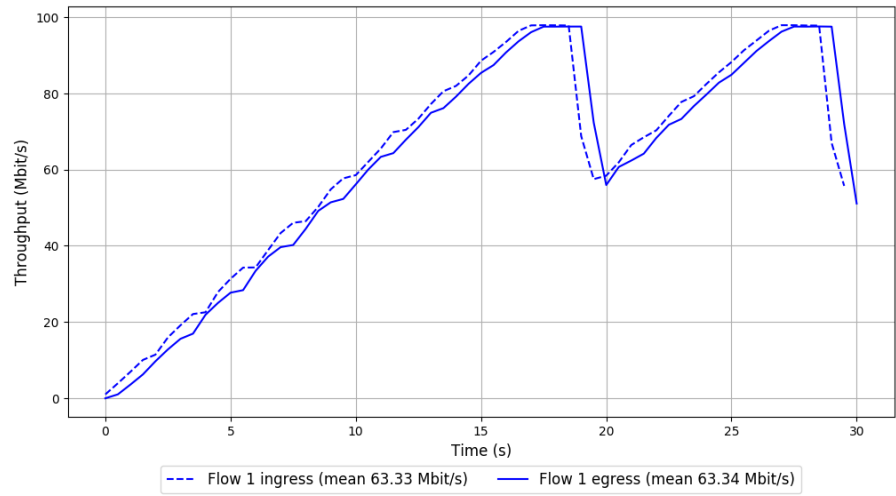


Run 4: Statistics of LEDBAT

Start at: 2019-01-25 12:09:07  
End at: 2019-01-25 12:09:37  
Local clock offset: -0.093 ms  
Remote clock offset: -1.501 ms

# Below is generated by plot.py at 2019-01-25 12:57:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.34 Mbit/s  
95th percentile per-packet one-way delay: 39.550 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 63.34 Mbit/s  
95th percentile per-packet one-way delay: 39.550 ms  
Loss rate: 0.20%

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



Run 5: Statistics of LEDBAT

Start at: 2019-01-25 12:34:19

End at: 2019-01-25 12:34:49

Local clock offset: 1.178 ms

Remote clock offset: -1.48 ms

# Below is generated by plot.py at 2019-01-25 12:57:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 40.009 ms

Loss rate: 0.20%

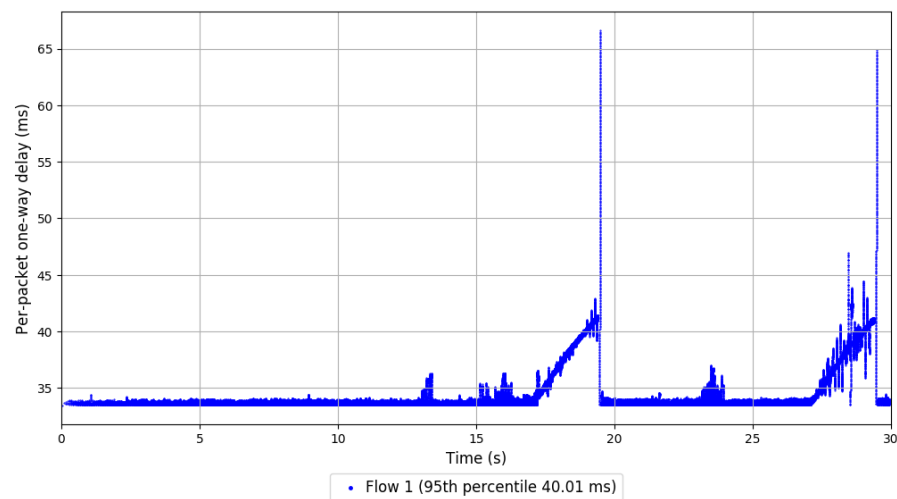
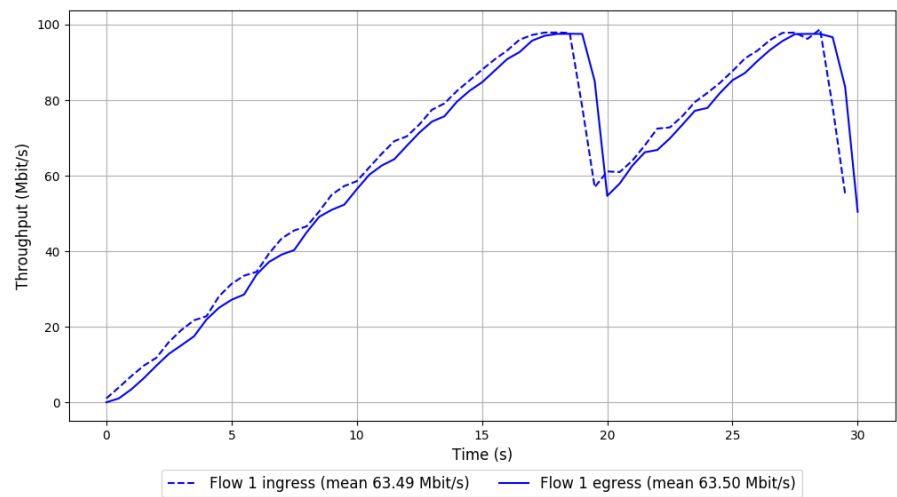
-- Flow 1:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 40.009 ms

Loss rate: 0.20%

Run 5: Report of LEDBAT — Data Link

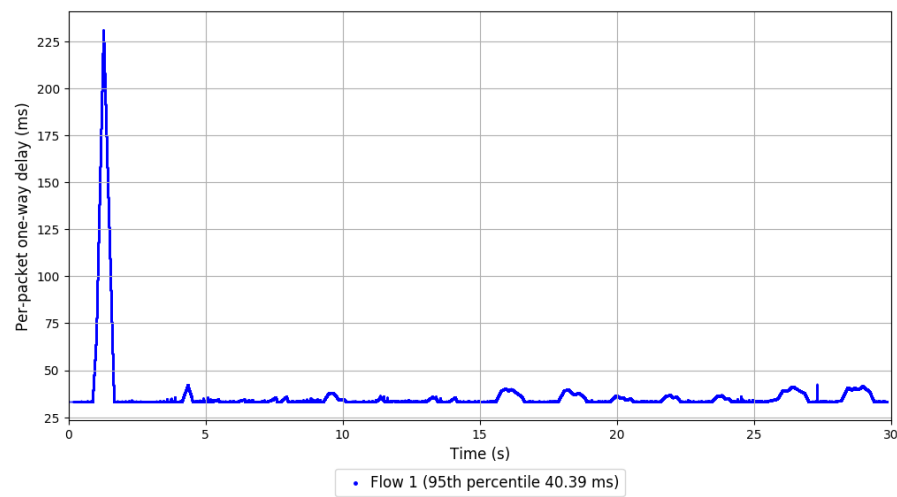
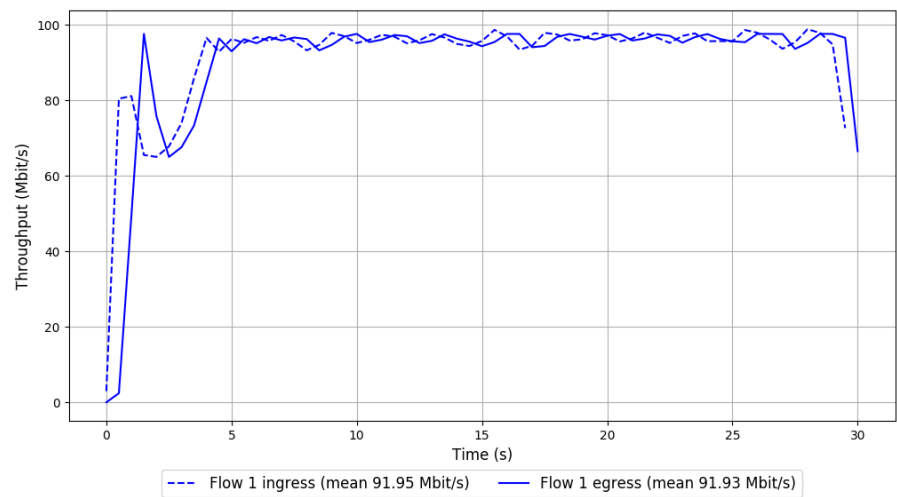


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-25 10:51:35
End at: 2019-01-25 10:52:05
Local clock offset: -3.335 ms
Remote clock offset: -3.018 ms

# Below is generated by plot.py at 2019-01-25 12:58:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 40.389 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 40.389 ms
Loss rate: 0.23%
```

Run 1: Report of PCC-Allegro — Data Link



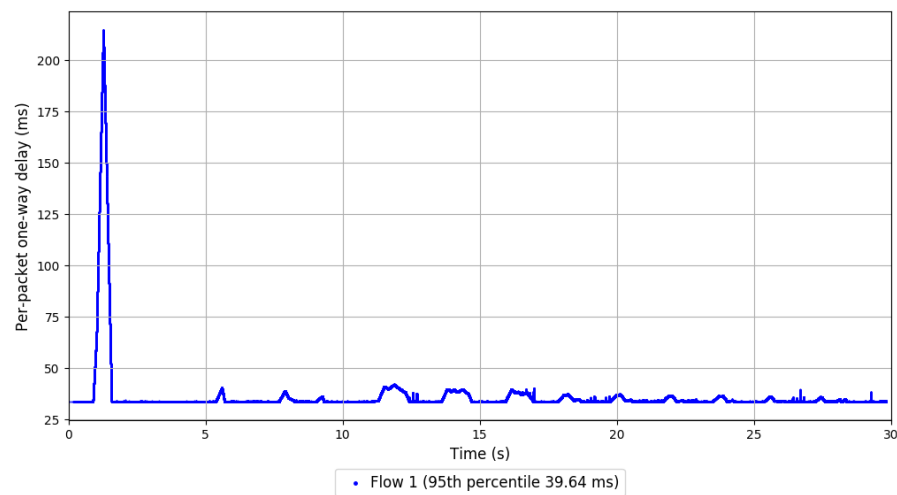
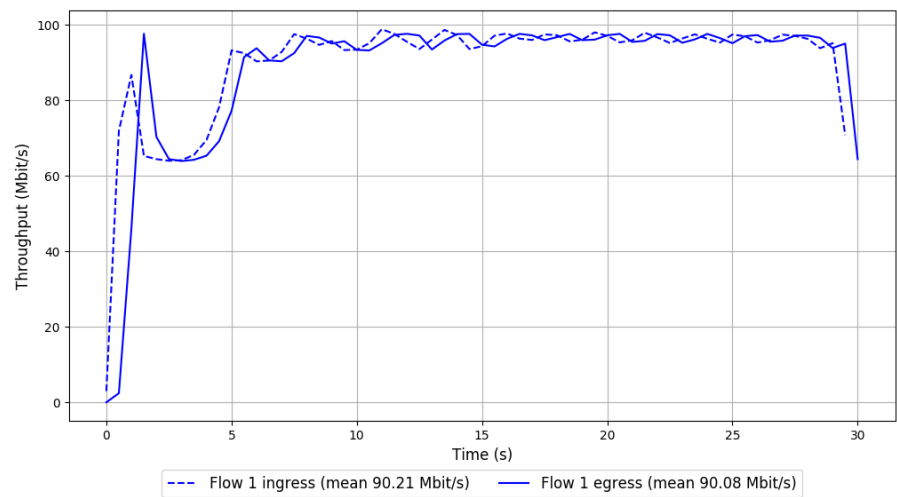


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-25 11:17:29  
End at: 2019-01-25 11:17:59  
Local clock offset: -4.638 ms  
Remote clock offset: -2.414 ms

# Below is generated by plot.py at 2019-01-25 12:58:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.08 Mbit/s  
95th percentile per-packet one-way delay: 39.636 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 90.08 Mbit/s  
95th percentile per-packet one-way delay: 39.636 ms  
Loss rate: 0.35%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-25 11:42:43

End at: 2019-01-25 11:43:13

Local clock offset: -2.911 ms

Remote clock offset: -1.507 ms

# Below is generated by plot.py at 2019-01-25 12:58:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 37.784 ms

Loss rate: 0.23%

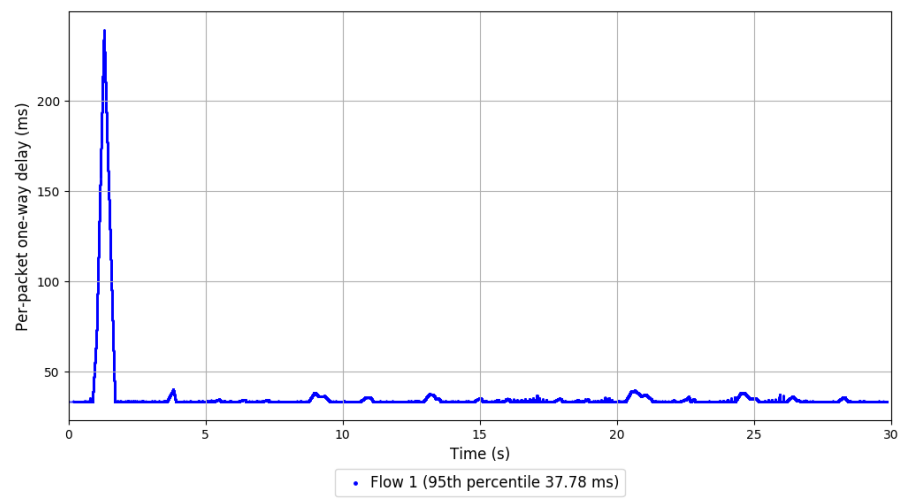
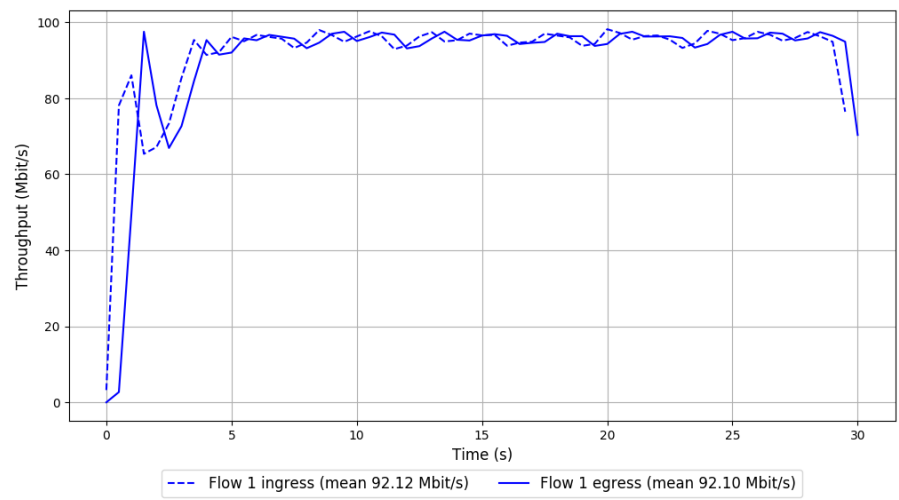
-- Flow 1:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 37.784 ms

Loss rate: 0.23%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-25 12:07:57

End at: 2019-01-25 12:08:27

Local clock offset: -0.273 ms

Remote clock offset: -1.508 ms

# Below is generated by plot.py at 2019-01-25 12:58:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.76 Mbit/s

95th percentile per-packet one-way delay: 37.994 ms

Loss rate: 0.23%

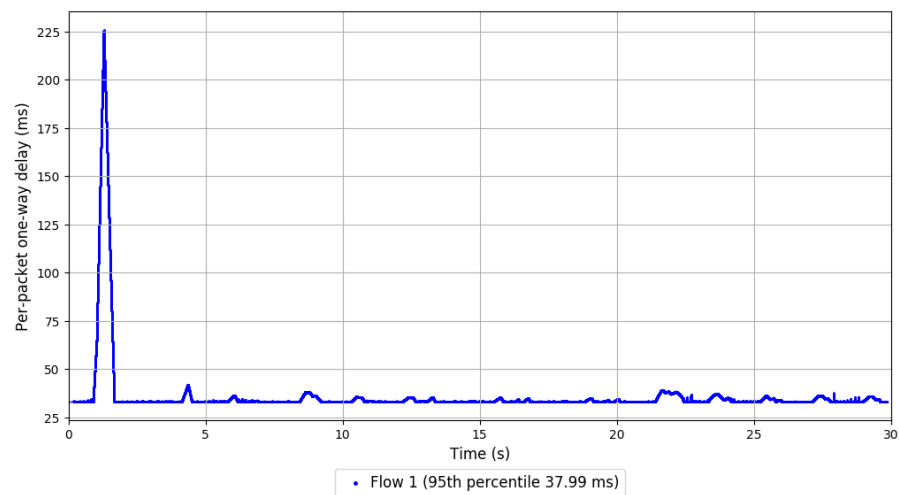
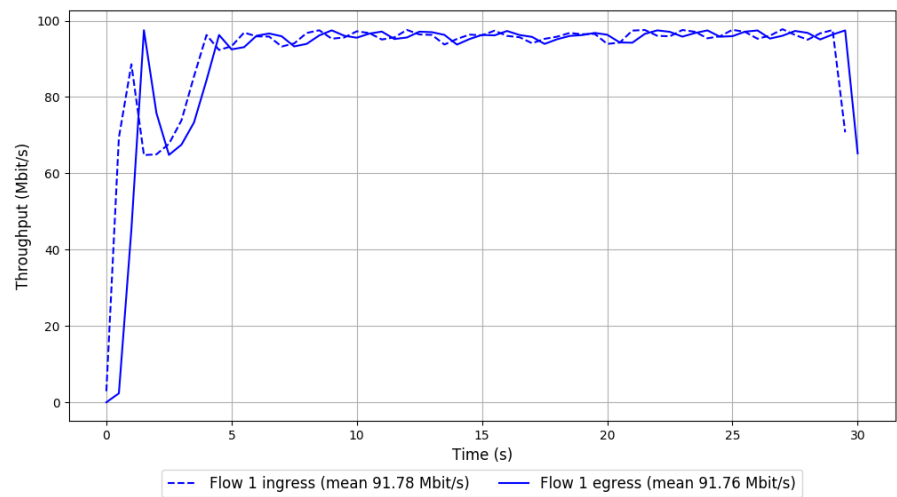
-- Flow 1:

Average throughput: 91.76 Mbit/s

95th percentile per-packet one-way delay: 37.994 ms

Loss rate: 0.23%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-25 12:33:10

End at: 2019-01-25 12:33:40

Local clock offset: 1.275 ms

Remote clock offset: -1.521 ms

# Below is generated by plot.py at 2019-01-25 12:58:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.03 Mbit/s

95th percentile per-packet one-way delay: 46.758 ms

Loss rate: 0.25%

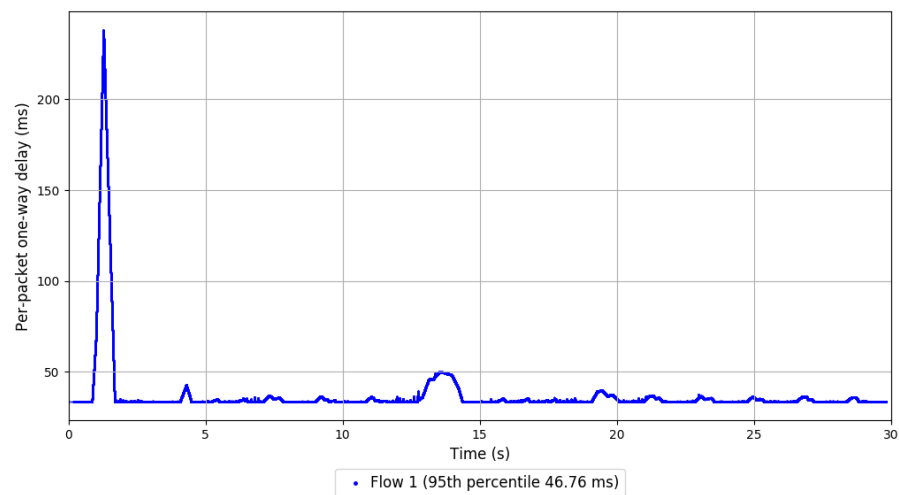
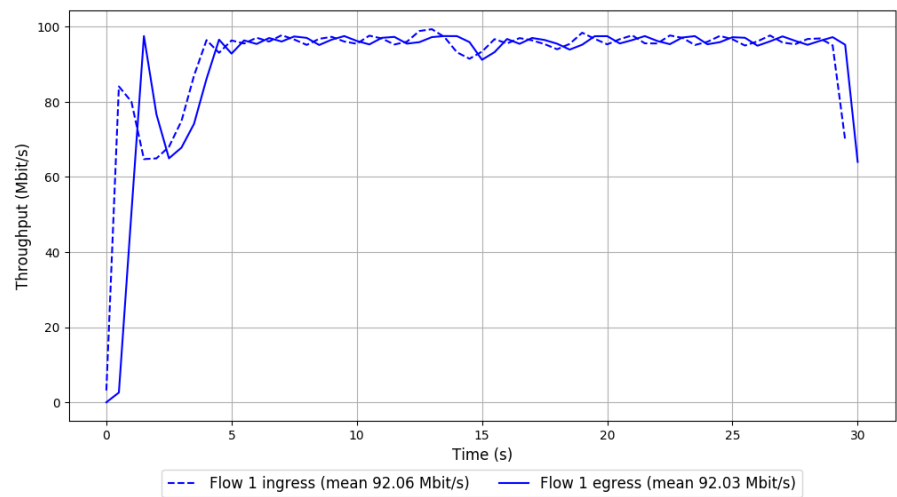
-- Flow 1:

Average throughput: 92.03 Mbit/s

95th percentile per-packet one-way delay: 46.758 ms

Loss rate: 0.25%

Run 5: Report of PCC-Allegro — Data Link



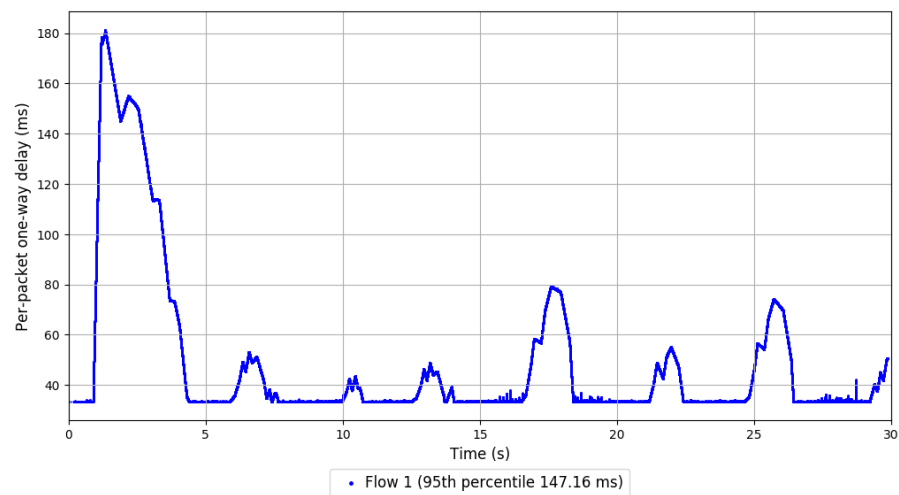
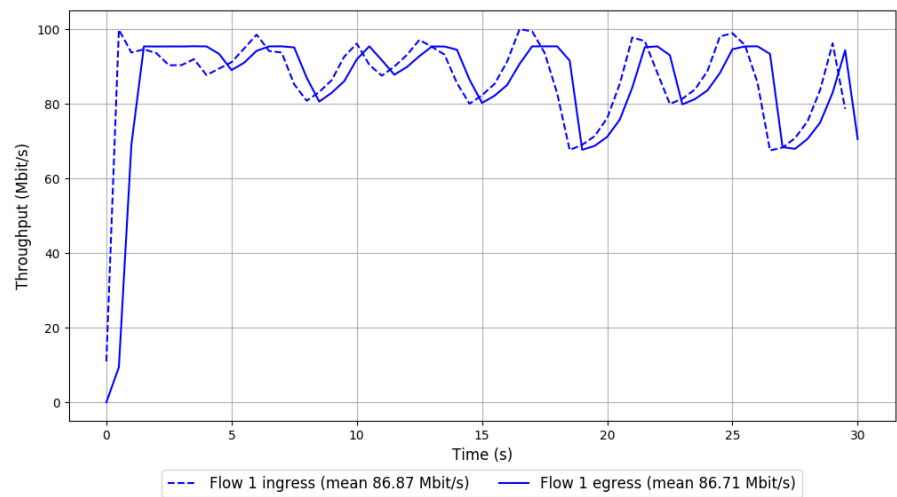


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-25 10:53:57
End at: 2019-01-25 10:54:27
Local clock offset: -3.485 ms
Remote clock offset: -3.02 ms

# Below is generated by plot.py at 2019-01-25 12:59:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.71 Mbit/s
95th percentile per-packet one-way delay: 147.164 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 86.71 Mbit/s
95th percentile per-packet one-way delay: 147.164 ms
Loss rate: 0.40%
```

Run 1: Report of PCC-Expr — Data Link

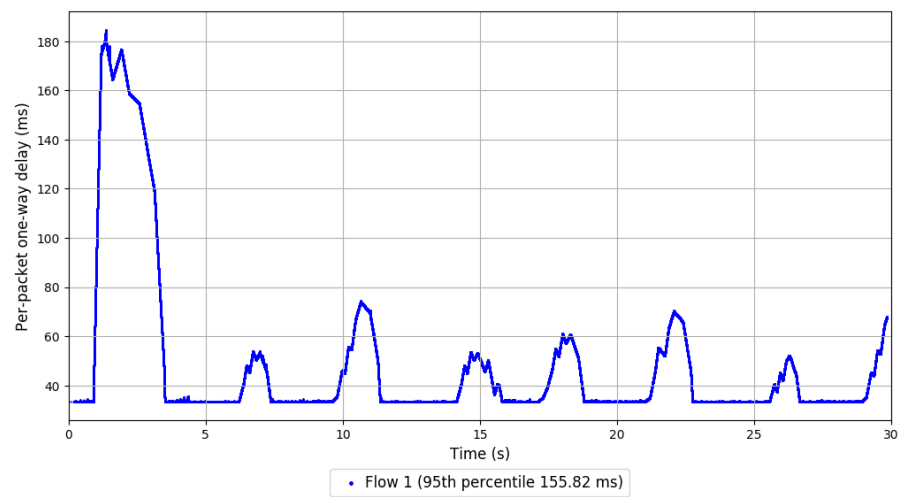
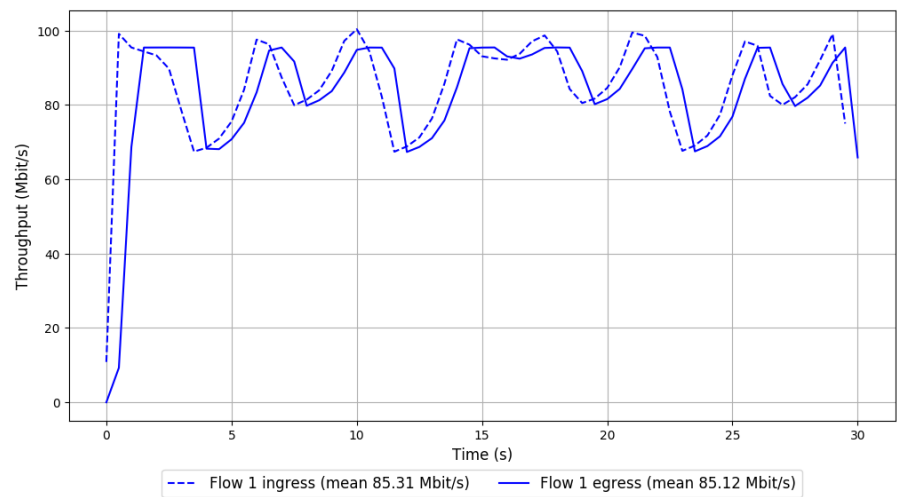


Run 2: Statistics of PCC-Expr

Start at: 2019-01-25 11:19:51  
End at: 2019-01-25 11:20:21  
Local clock offset: -4.733 ms  
Remote clock offset: -2.147 ms

# Below is generated by plot.py at 2019-01-25 12:59:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.12 Mbit/s  
95th percentile per-packet one-way delay: 155.820 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 85.12 Mbit/s  
95th percentile per-packet one-way delay: 155.820 ms  
Loss rate: 0.44%

Run 2: Report of PCC-Expr — Data Link

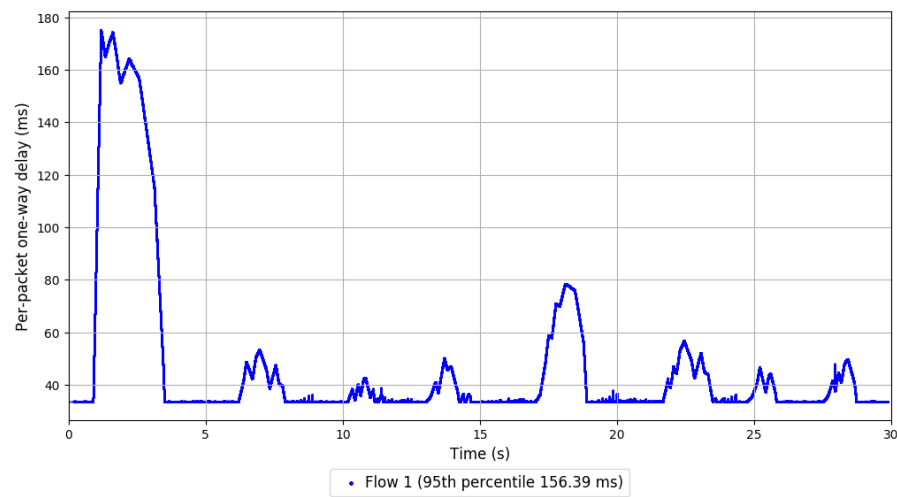
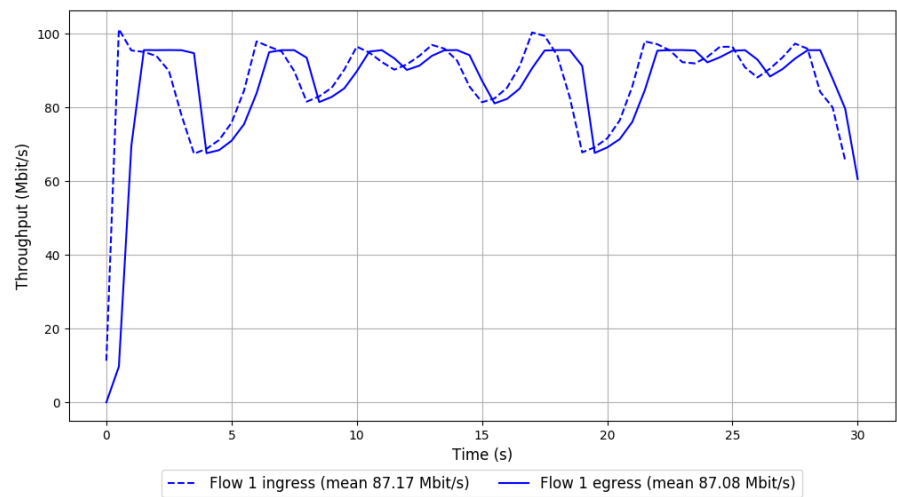


Run 3: Statistics of PCC-Expr

Start at: 2019-01-25 11:45:05  
End at: 2019-01-25 11:45:35  
Local clock offset: -2.757 ms  
Remote clock offset: -1.757 ms

# Below is generated by plot.py at 2019-01-25 12:59:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.08 Mbit/s  
95th percentile per-packet one-way delay: 156.392 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 87.08 Mbit/s  
95th percentile per-packet one-way delay: 156.392 ms  
Loss rate: 0.32%

Run 3: Report of PCC-Expr — Data Link

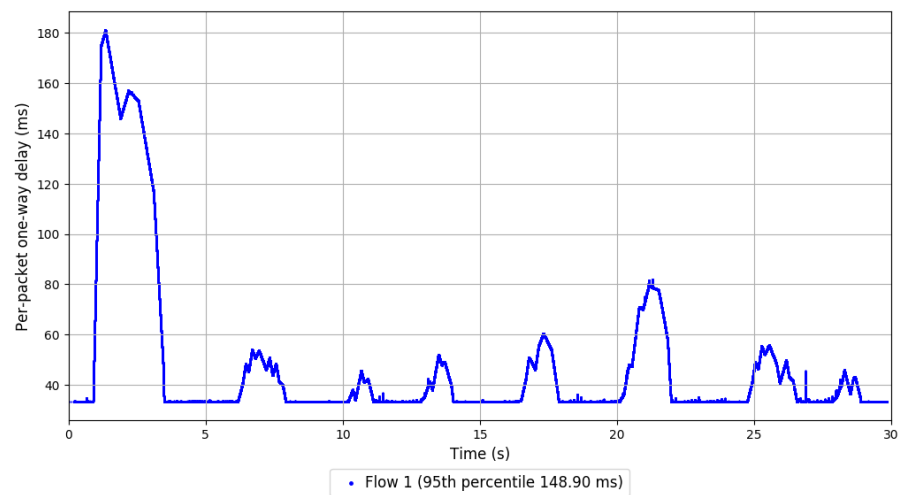
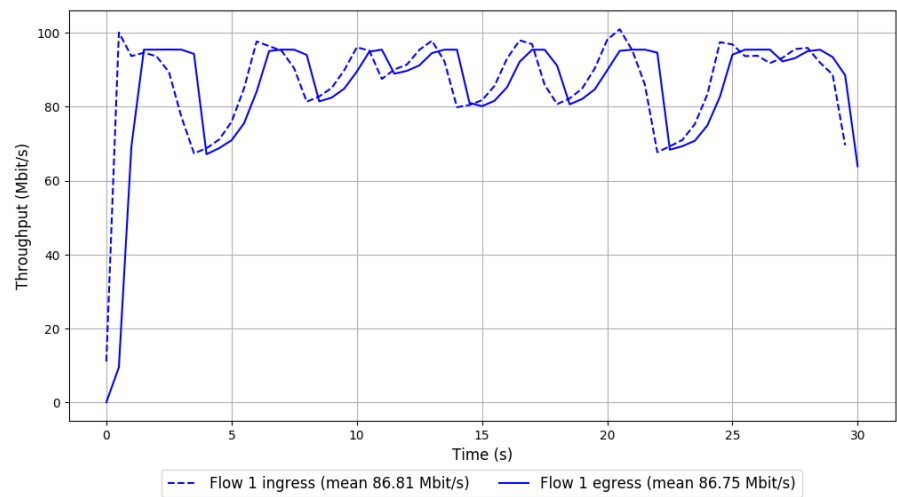


Run 4: Statistics of PCC-Expr

Start at: 2019-01-25 12:10:17  
End at: 2019-01-25 12:10:47  
Local clock offset: 0.071 ms  
Remote clock offset: -1.472 ms

# Below is generated by plot.py at 2019-01-25 13:00:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.75 Mbit/s  
95th percentile per-packet one-way delay: 148.902 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 86.75 Mbit/s  
95th percentile per-packet one-way delay: 148.902 ms  
Loss rate: 0.28%

Run 4: Report of PCC-Expr — Data Link



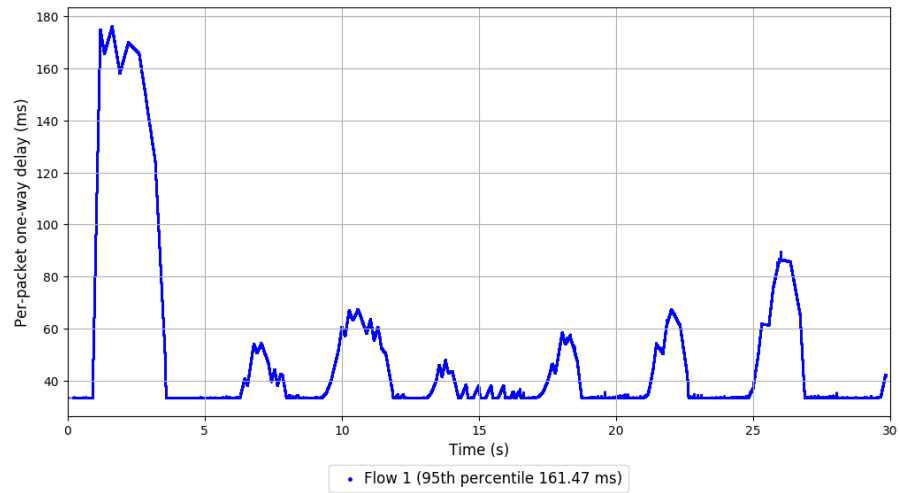
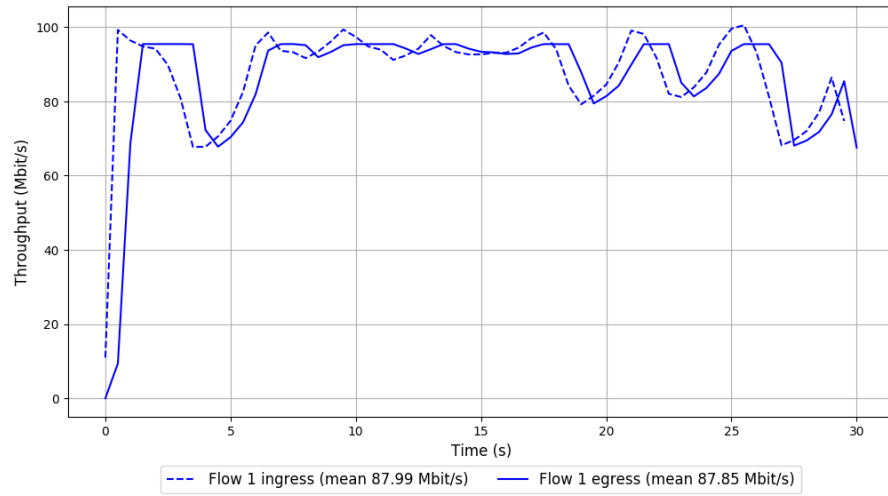


Run 5: Statistics of PCC-Expr

Start at: 2019-01-25 12:35:29  
End at: 2019-01-25 12:35:59  
Local clock offset: 1.105 ms  
Remote clock offset: -1.508 ms

# Below is generated by plot.py at 2019-01-25 13:00:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.85 Mbit/s  
95th percentile per-packet one-way delay: 161.474 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 87.85 Mbit/s  
95th percentile per-packet one-way delay: 161.474 ms  
Loss rate: 0.37%

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



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-25 10:58:55

End at: 2019-01-25 10:59:25

Local clock offset: -3.784 ms

Remote clock offset: -2.827 ms

# Below is generated by plot.py at 2019-01-25 13:00:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 51.512 ms

Loss rate: 0.31%

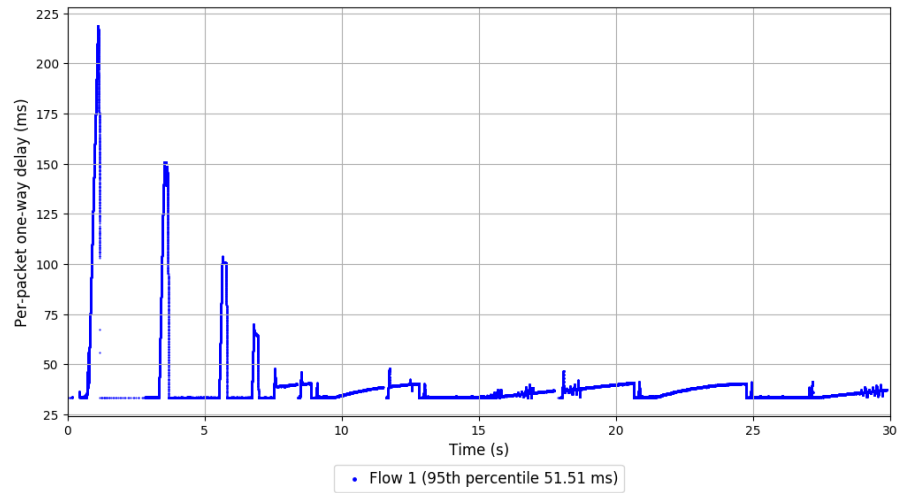
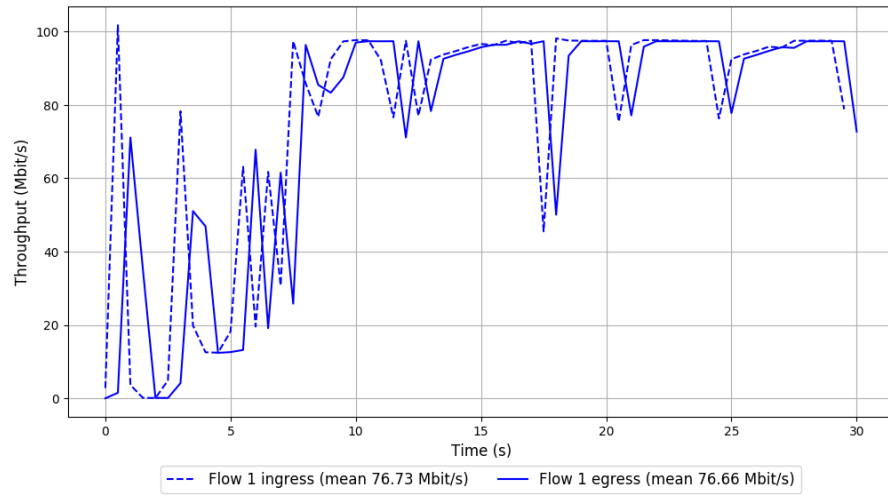
-- Flow 1:

Average throughput: 76.66 Mbit/s

95th percentile per-packet one-way delay: 51.512 ms

Loss rate: 0.31%

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

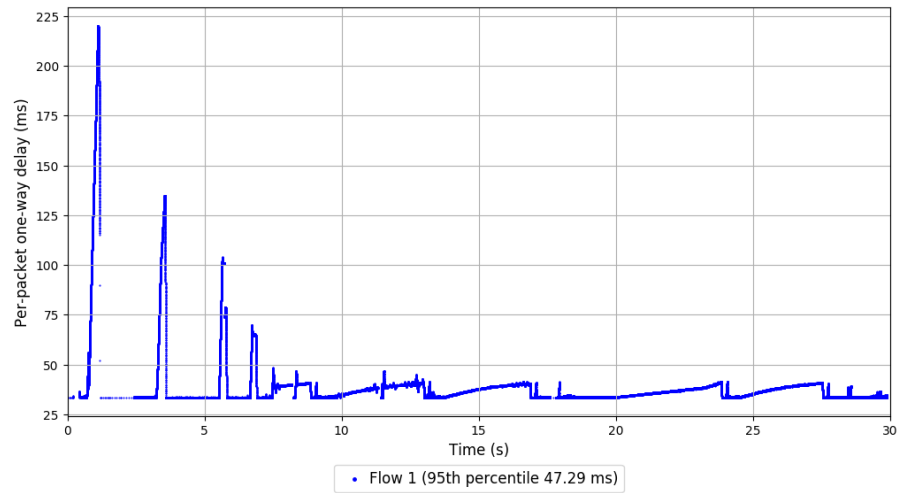
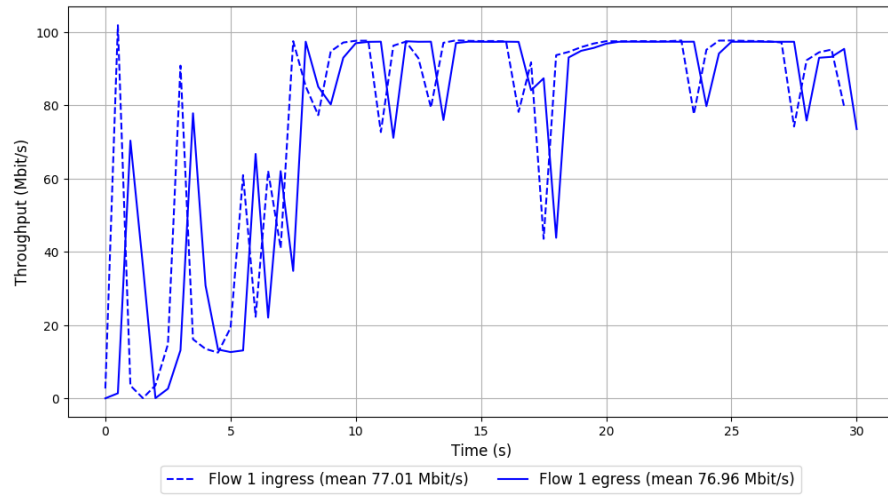


Run 2: Statistics of QUIC Cubic

Start at: 2019-01-25 11:24:29  
End at: 2019-01-25 11:24:59  
Local clock offset: -4.922 ms  
Remote clock offset: -1.963 ms

# Below is generated by plot.py at 2019-01-25 13:00:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.96 Mbit/s  
95th percentile per-packet one-way delay: 47.290 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 76.96 Mbit/s  
95th percentile per-packet one-way delay: 47.290 ms  
Loss rate: 0.28%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-25 11:49:46

End at: 2019-01-25 11:50:16

Local clock offset: -2.544 ms

Remote clock offset: -1.506 ms

# Below is generated by plot.py at 2019-01-25 13:00:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 52.186 ms

Loss rate: 0.30%

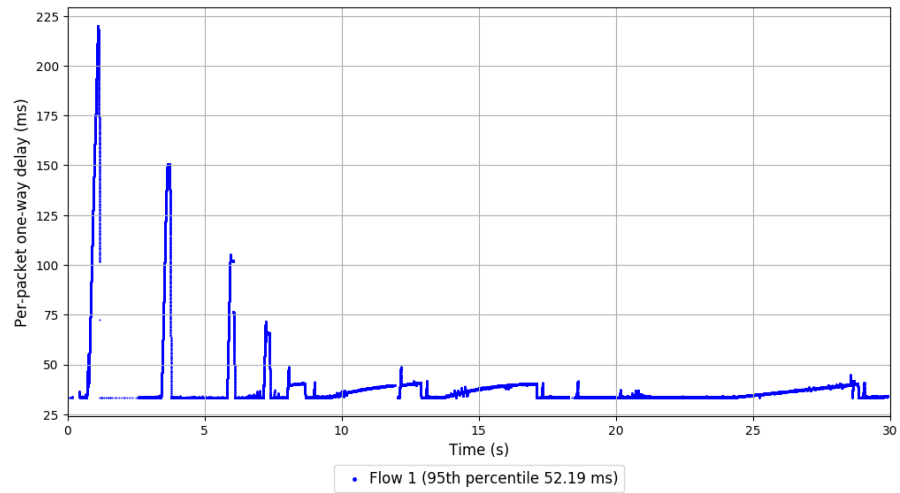
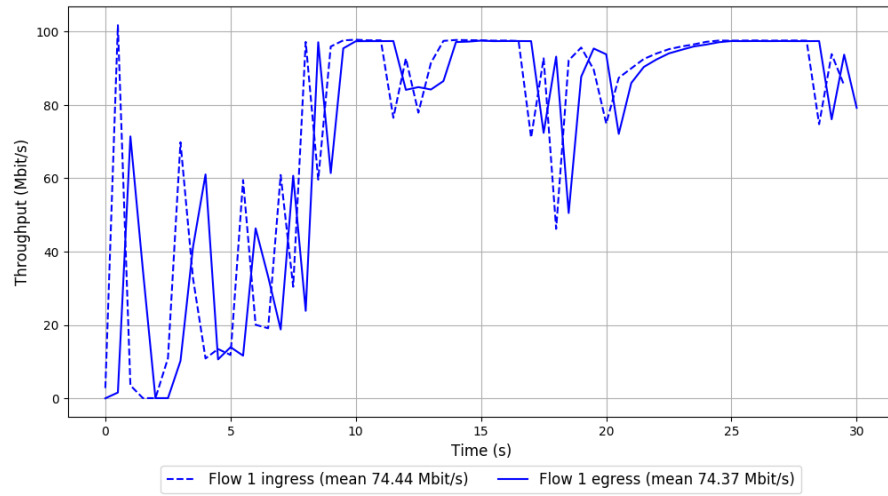
-- Flow 1:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 52.186 ms

Loss rate: 0.30%

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





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-25 12:15:03

End at: 2019-01-25 12:15:33

Local clock offset: 0.609 ms

Remote clock offset: -1.492 ms

# Below is generated by plot.py at 2019-01-25 13:00:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 50.361 ms

Loss rate: 0.28%

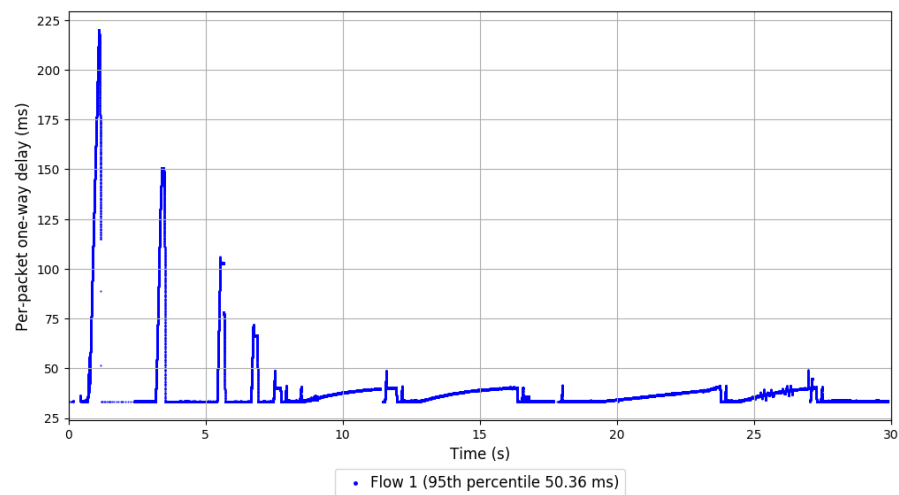
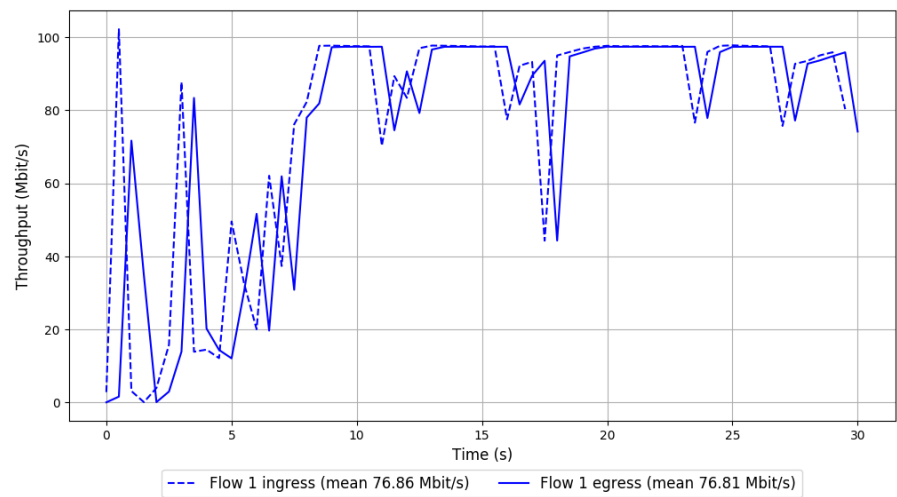
-- Flow 1:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 50.361 ms

Loss rate: 0.28%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-25 12:40:07

End at: 2019-01-25 12:40:37

Local clock offset: 0.913 ms

Remote clock offset: -1.686 ms

# Below is generated by plot.py at 2019-01-25 13:00:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 40.651 ms

Loss rate: 0.26%

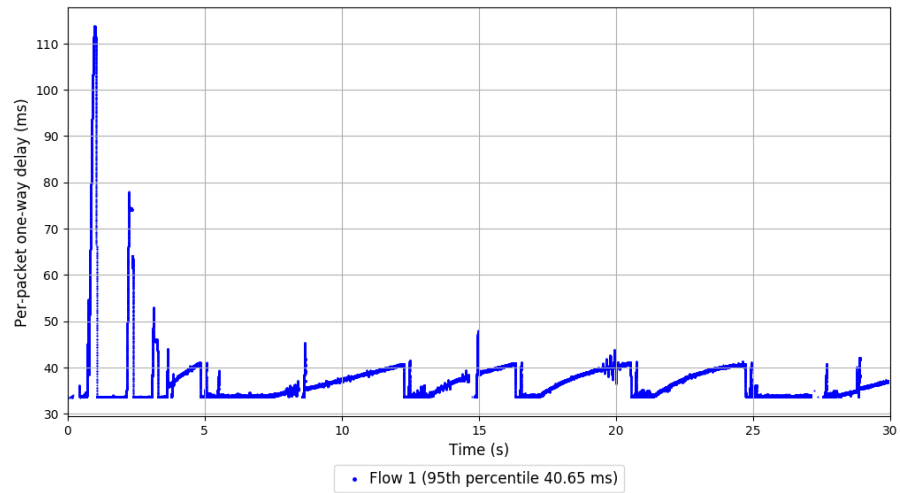
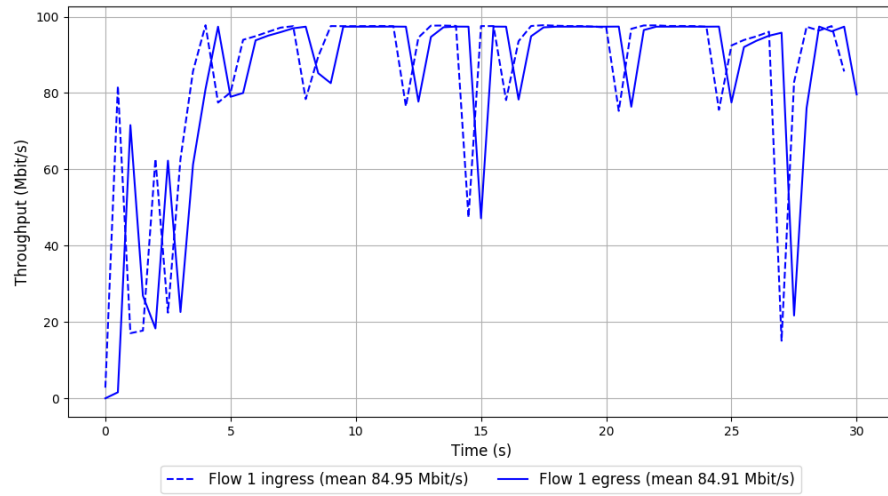
-- Flow 1:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 40.651 ms

Loss rate: 0.26%

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

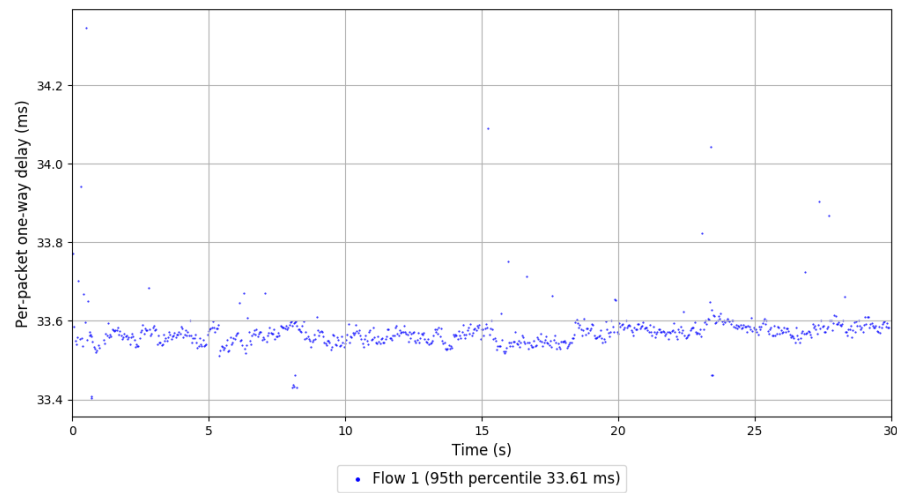
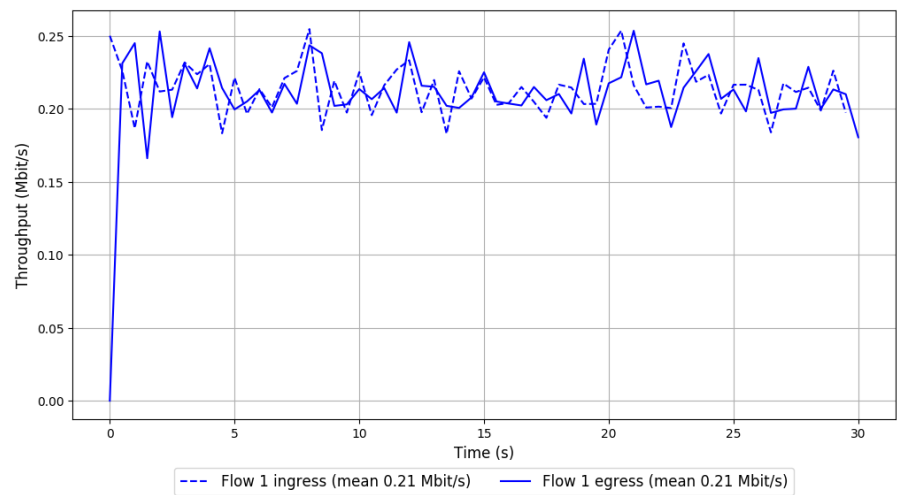


Run 1: Statistics of SCReAM

Start at: 2019-01-25 10:50:29  
End at: 2019-01-25 10:50:59  
Local clock offset: -3.253 ms  
Remote clock offset: -3.077 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.606 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.606 ms  
Loss rate: 0.26%

Run 1: Report of SReAM — Data Link

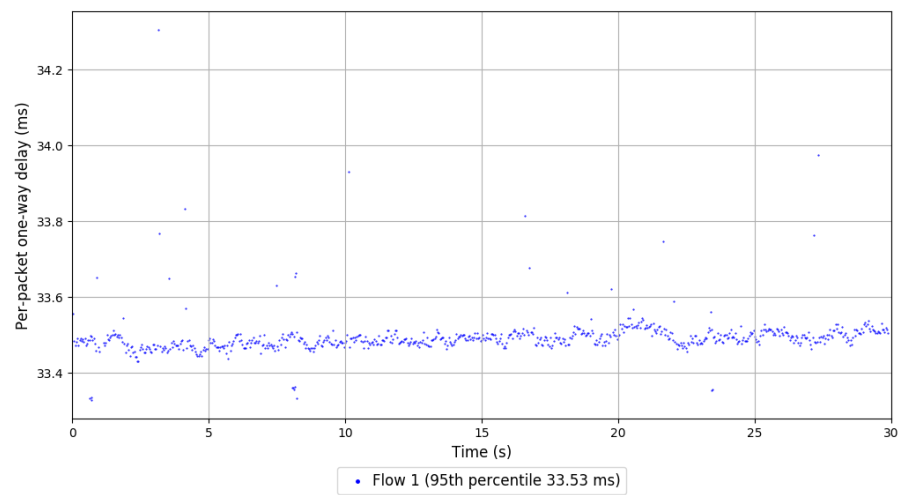
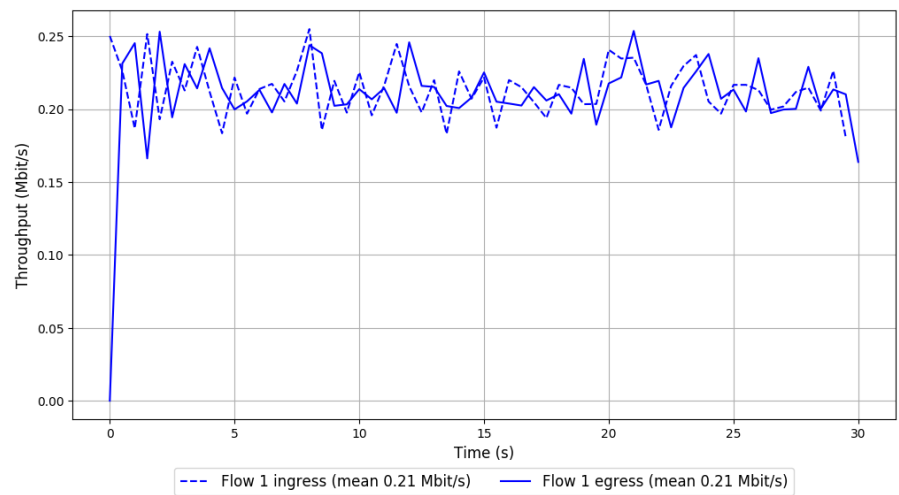


Run 2: Statistics of SCReAM

Start at: 2019-01-25 11:16:23  
End at: 2019-01-25 11:16:53  
Local clock offset: -4.586 ms  
Remote clock offset: -2.226 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.527 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.527 ms  
Loss rate: 0.26%

Run 2: Report of SReAM — Data Link



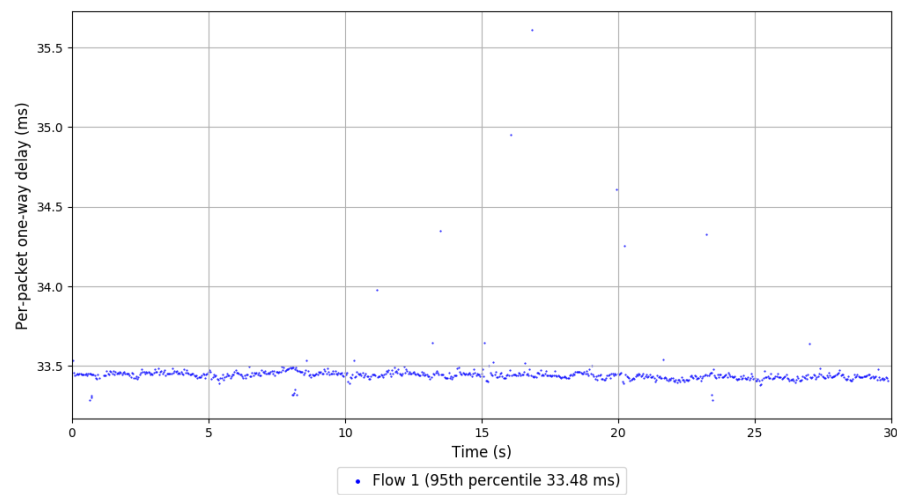
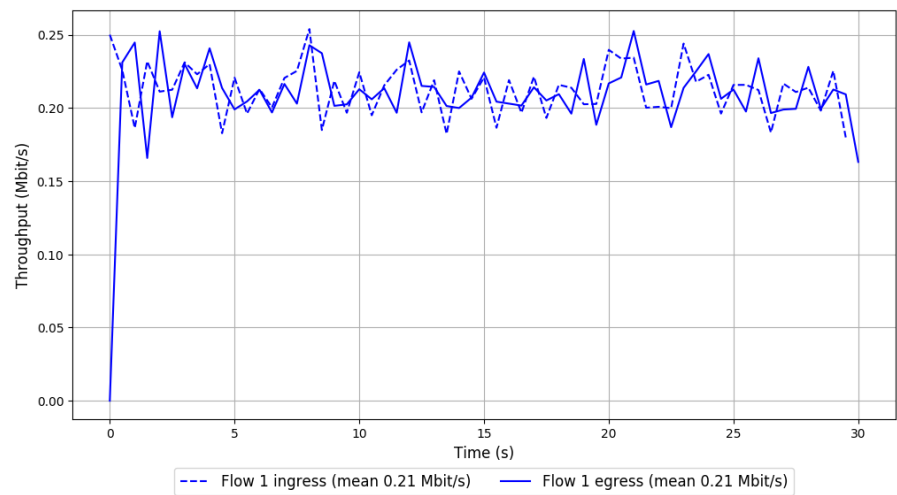


Run 3: Statistics of SCReAM

Start at: 2019-01-25 11:41:37  
End at: 2019-01-25 11:42:07  
Local clock offset: -2.991 ms  
Remote clock offset: -1.518 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.480 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.480 ms  
Loss rate: 0.26%

Run 3: Report of SReAM — Data Link

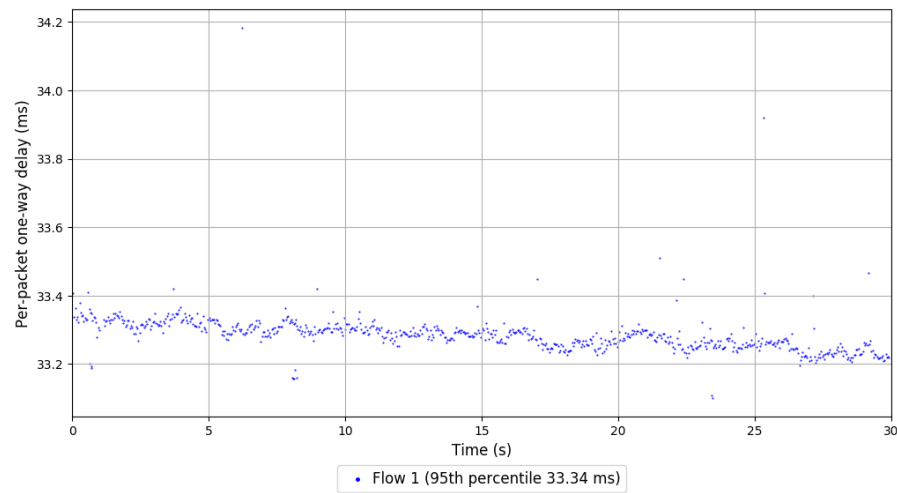
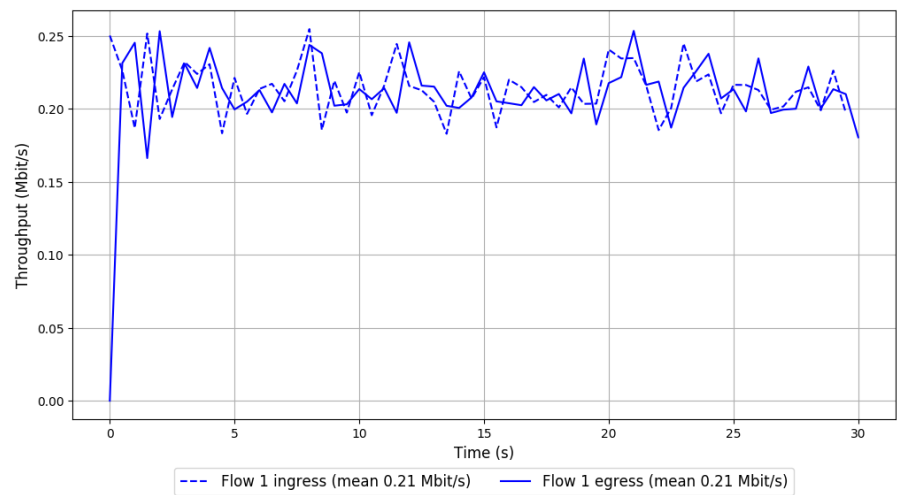


Run 4: Statistics of SCReAM

Start at: 2019-01-25 12:06:52  
End at: 2019-01-25 12:07:22  
Local clock offset: -0.469 ms  
Remote clock offset: -1.501 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.342 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.342 ms  
Loss rate: 0.26%

Run 4: Report of SReAM — Data Link

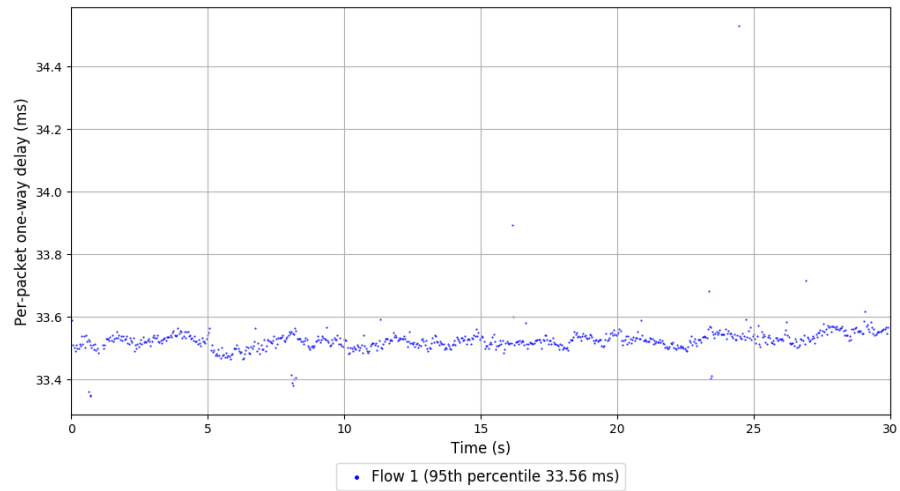
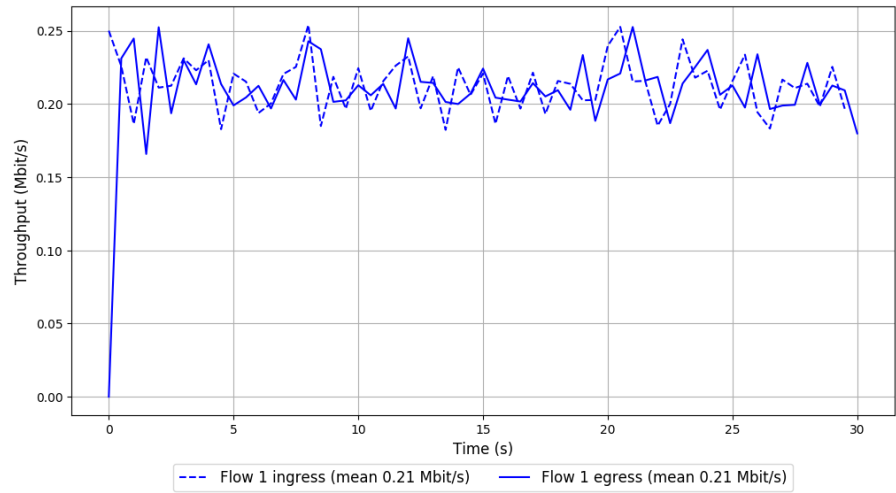


Run 5: Statistics of SCReAM

Start at: 2019-01-25 12:32:04  
End at: 2019-01-25 12:32:34  
Local clock offset: 1.344 ms  
Remote clock offset: -1.492 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.562 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 33.562 ms  
Loss rate: 0.26%

## Run 5: Report of SReAM — Data Link

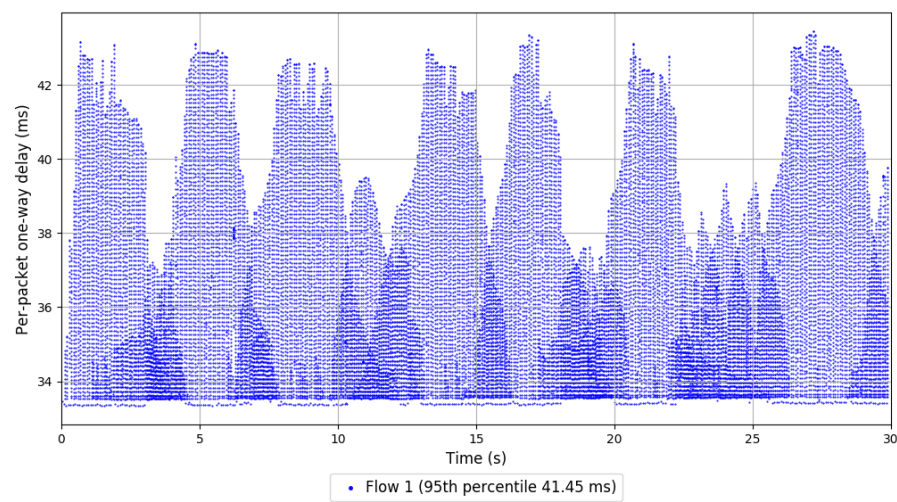
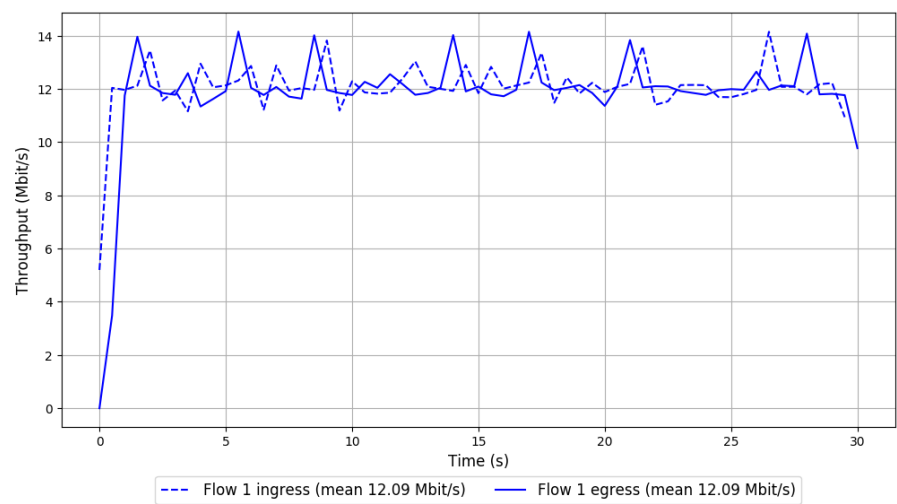


Run 1: Statistics of Sprout

Start at: 2019-01-25 10:57:48  
End at: 2019-01-25 10:58:18  
Local clock offset: -3.695 ms  
Remote clock offset: -2.886 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.09 Mbit/s  
95th percentile per-packet one-way delay: 41.446 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 12.09 Mbit/s  
95th percentile per-packet one-way delay: 41.446 ms  
Loss rate: 0.27%

Run 1: Report of Sprout — Data Link



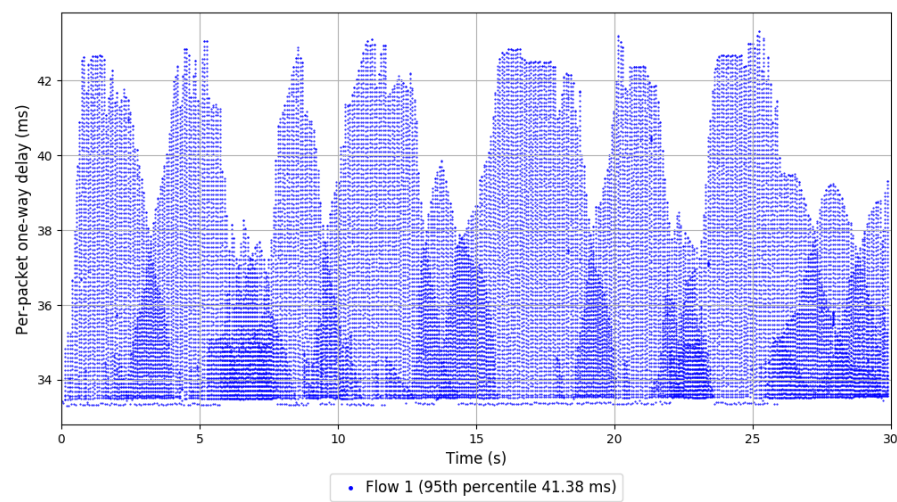
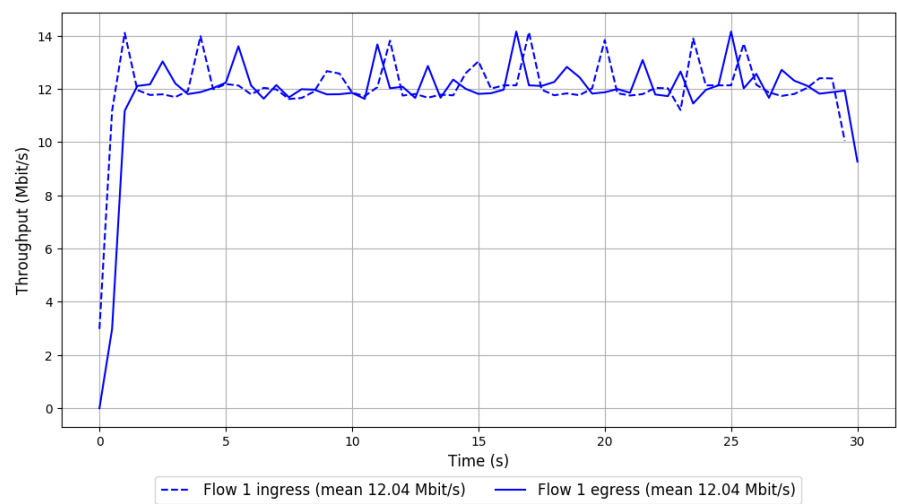


Run 2: Statistics of Sprout

Start at: 2019-01-25 11:23:23  
End at: 2019-01-25 11:23:53  
Local clock offset: -4.874 ms  
Remote clock offset: -1.983 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.04 Mbit/s  
95th percentile per-packet one-way delay: 41.385 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 12.04 Mbit/s  
95th percentile per-packet one-way delay: 41.385 ms  
Loss rate: 0.27%

Run 2: Report of Sprout — Data Link

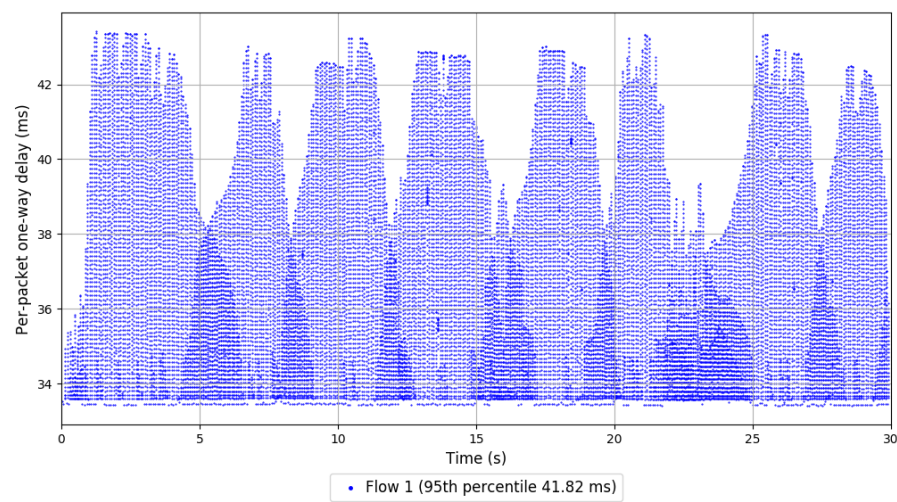
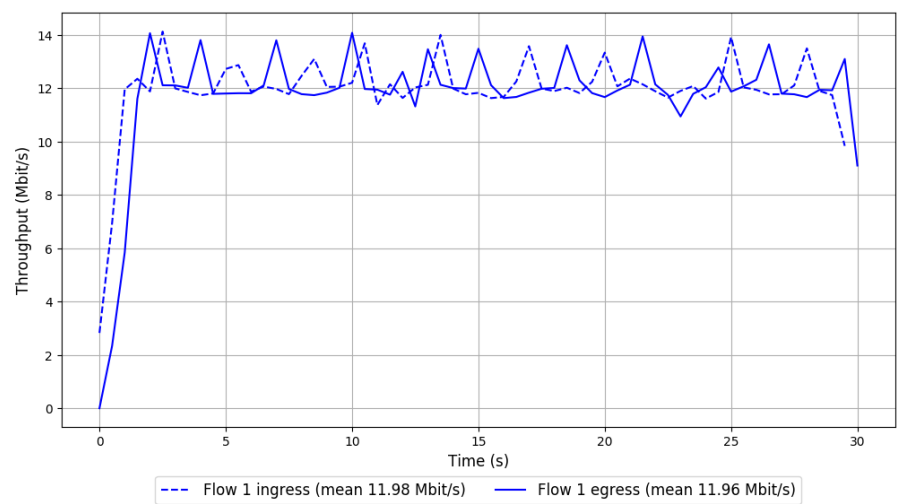


Run 3: Statistics of Sprout

Start at: 2019-01-25 11:48:40  
End at: 2019-01-25 11:49:10  
Local clock offset: -2.567 ms  
Remote clock offset: -1.645 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.96 Mbit/s  
95th percentile per-packet one-way delay: 41.819 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 11.96 Mbit/s  
95th percentile per-packet one-way delay: 41.819 ms  
Loss rate: 0.19%

Run 3: Report of Sprout — Data Link

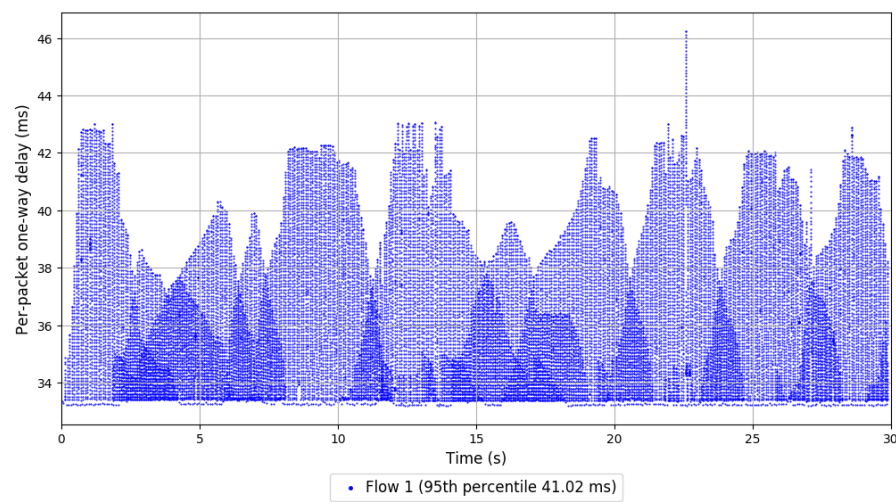
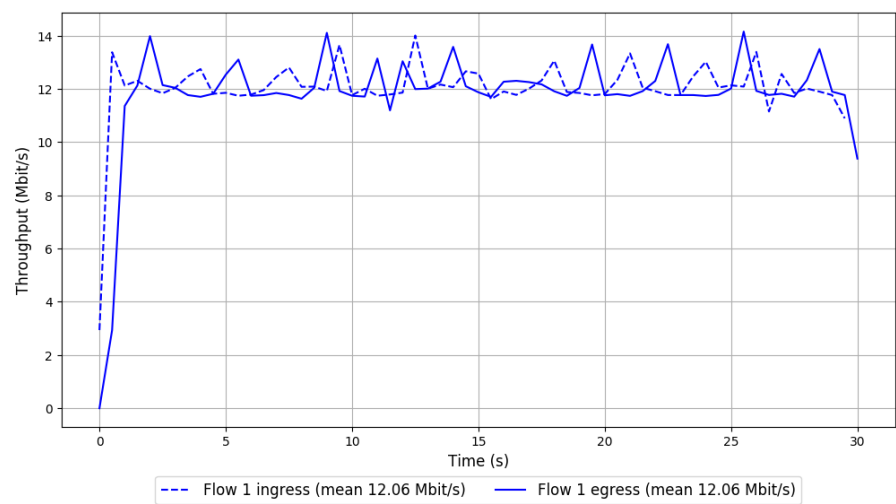


Run 4: Statistics of Sprout

Start at: 2019-01-25 12:13:57  
End at: 2019-01-25 12:14:27  
Local clock offset: 0.496 ms  
Remote clock offset: -1.438 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.06 Mbit/s  
95th percentile per-packet one-way delay: 41.020 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 12.06 Mbit/s  
95th percentile per-packet one-way delay: 41.020 ms  
Loss rate: 0.21%

Run 4: Report of Sprout — Data Link

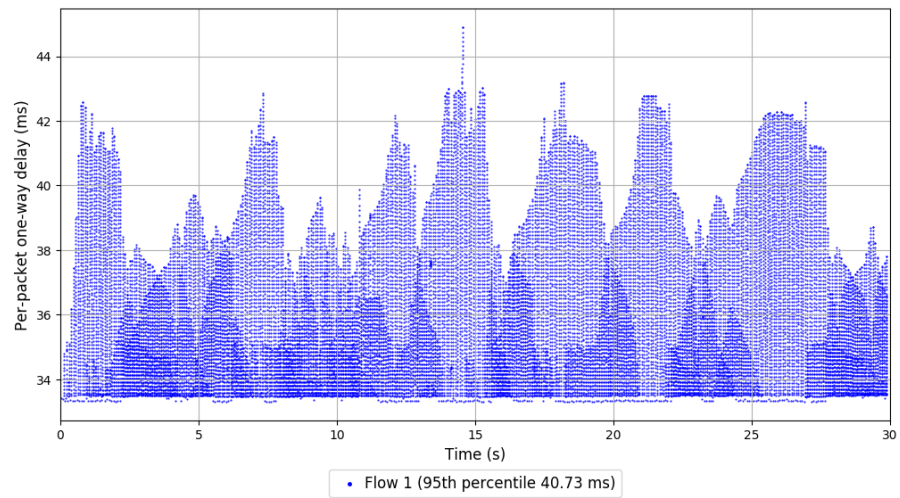
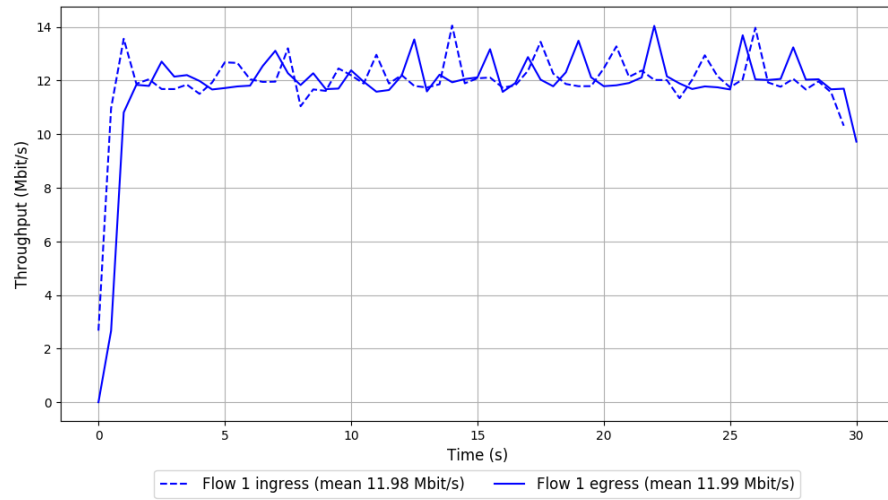


Run 5: Statistics of Sprout

Start at: 2019-01-25 12:39:01  
End at: 2019-01-25 12:39:31  
Local clock offset: 0.939 ms  
Remote clock offset: -1.525 ms

# Below is generated by plot.py at 2019-01-25 13:00:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.99 Mbit/s  
95th percentile per-packet one-way delay: 40.729 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 11.99 Mbit/s  
95th percentile per-packet one-way delay: 40.729 ms  
Loss rate: 0.10%

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



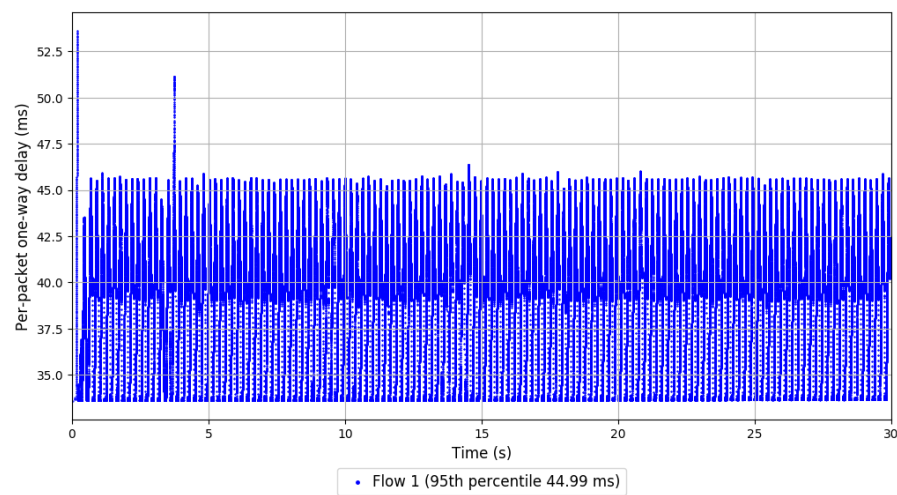
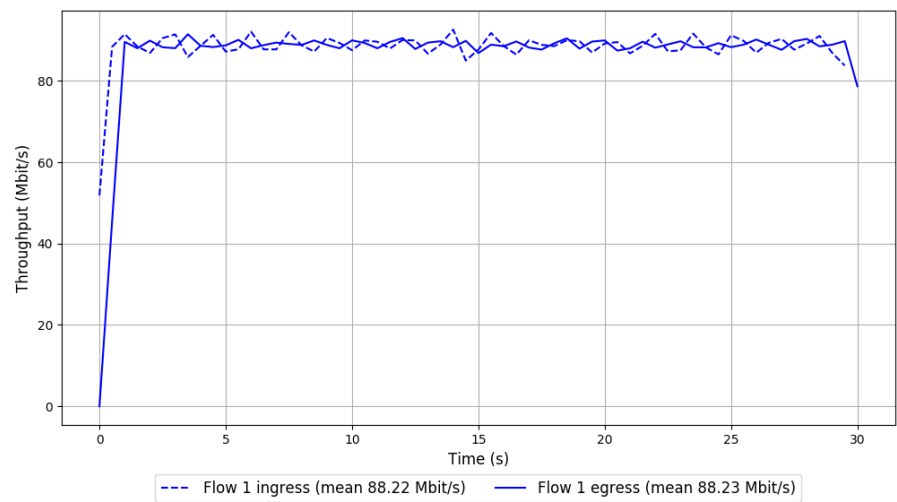


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-25 11:05:10
End at: 2019-01-25 11:05:40
Local clock offset: -4.087 ms
Remote clock offset: -2.83 ms

# Below is generated by plot.py at 2019-01-25 13:01:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.23 Mbit/s
95th percentile per-packet one-way delay: 44.990 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 88.23 Mbit/s
95th percentile per-packet one-way delay: 44.990 ms
Loss rate: 0.20%
```

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

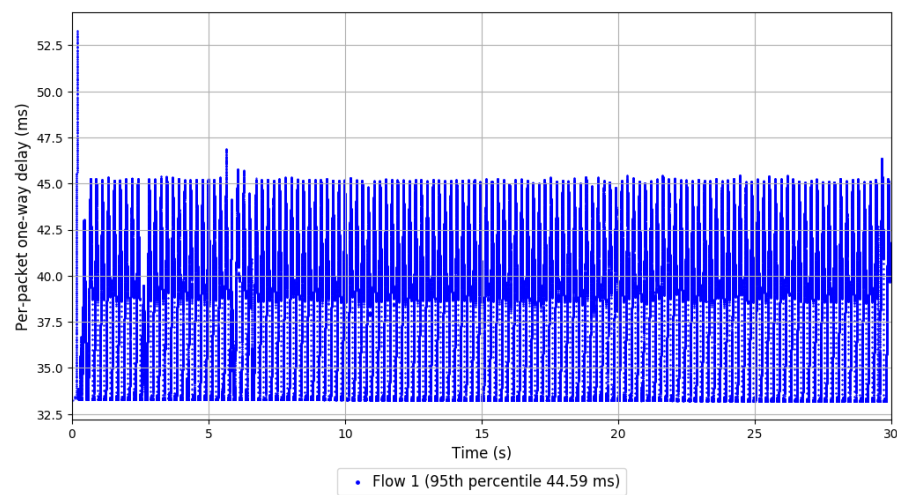
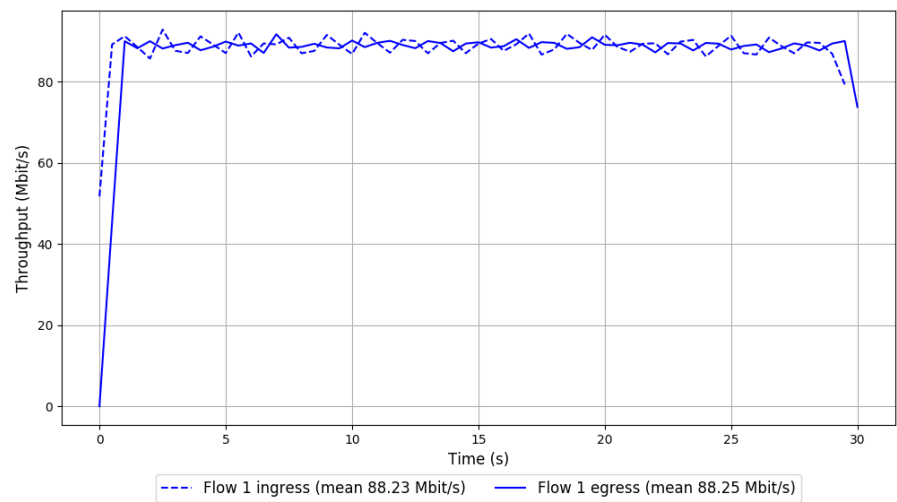


Run 2: Statistics of TaoVA-100x

Start at: 2019-01-25 11:30:42  
End at: 2019-01-25 11:31:12  
Local clock offset: -4.776 ms  
Remote clock offset: -1.816 ms

# Below is generated by plot.py at 2019-01-25 13:01:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.25 Mbit/s  
95th percentile per-packet one-way delay: 44.595 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 88.25 Mbit/s  
95th percentile per-packet one-way delay: 44.595 ms  
Loss rate: 0.19%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-25 11:55:48

End at: 2019-01-25 11:56:18

Local clock offset: -2.38 ms

Remote clock offset: -1.572 ms

# Below is generated by plot.py at 2019-01-25 13:01:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.42 Mbit/s

95th percentile per-packet one-way delay: 44.738 ms

Loss rate: 0.22%

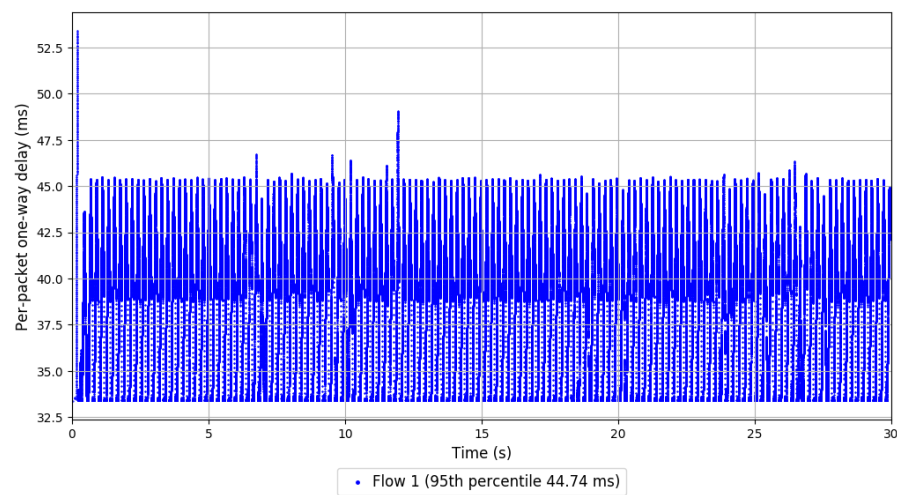
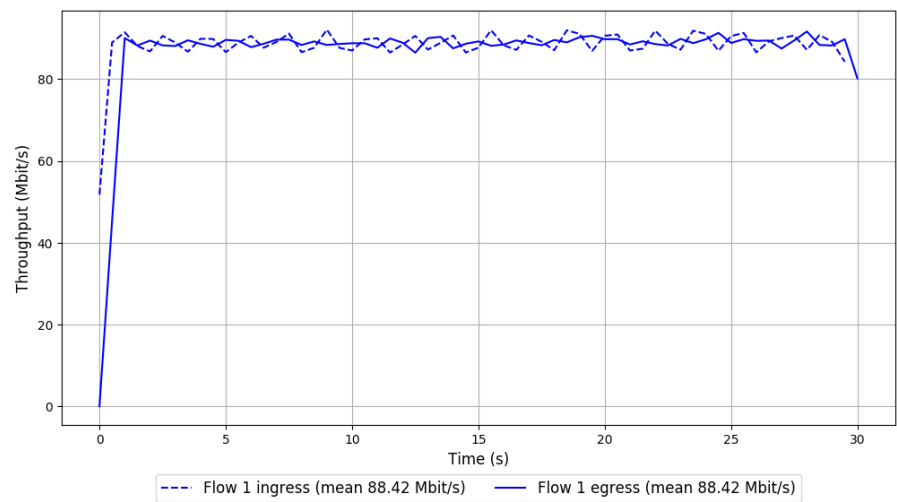
-- Flow 1:

Average throughput: 88.42 Mbit/s

95th percentile per-packet one-way delay: 44.738 ms

Loss rate: 0.22%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-25 12:21:17

End at: 2019-01-25 12:21:48

Local clock offset: 1.154 ms

Remote clock offset: -1.508 ms

# Below is generated by plot.py at 2019-01-25 13:01:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.01 Mbit/s

95th percentile per-packet one-way delay: 44.767 ms

Loss rate: 0.20%

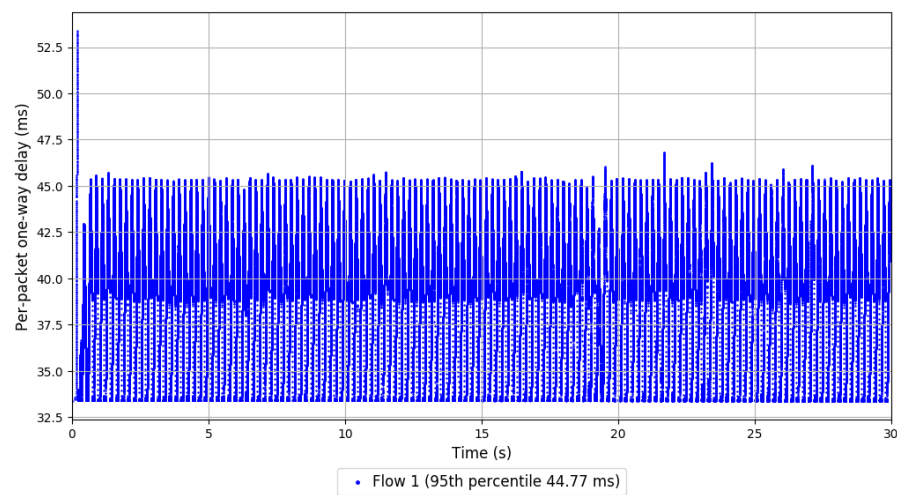
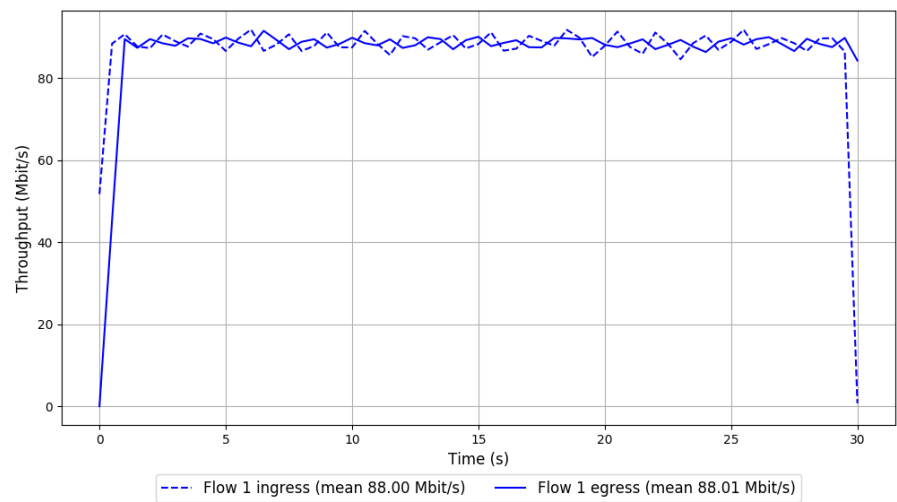
-- Flow 1:

Average throughput: 88.01 Mbit/s

95th percentile per-packet one-way delay: 44.767 ms

Loss rate: 0.20%

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



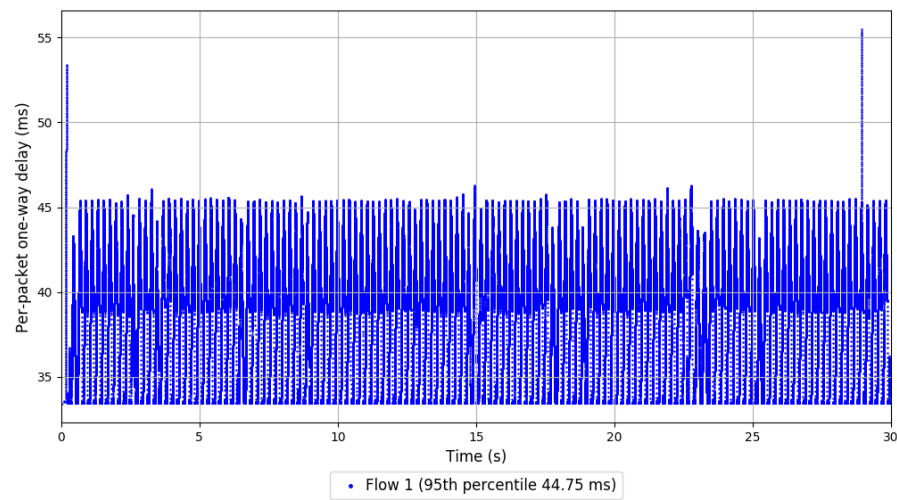
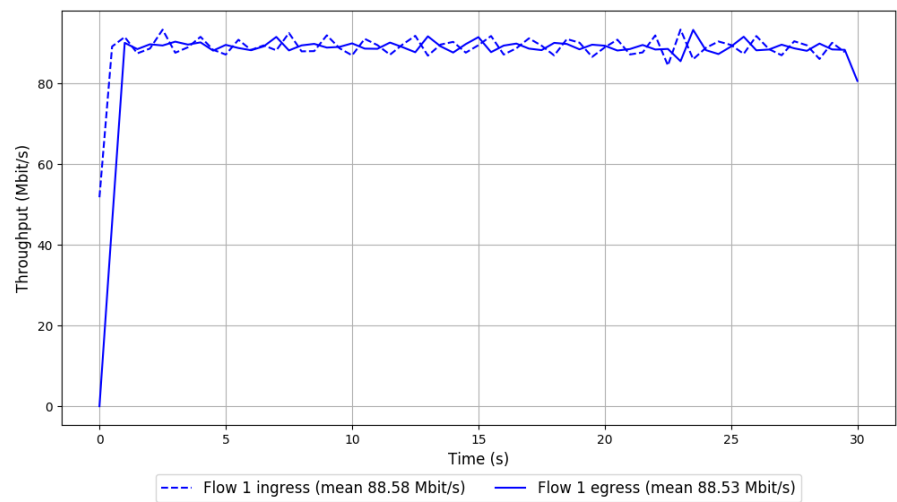


Run 5: Statistics of TaoVA-100x

Start at: 2019-01-25 12:46:05  
End at: 2019-01-25 12:46:35  
Local clock offset: 0.839 ms  
Remote clock offset: -1.539 ms

# Below is generated by plot.py at 2019-01-25 13:02:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.53 Mbit/s  
95th percentile per-packet one-way delay: 44.750 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 88.53 Mbit/s  
95th percentile per-packet one-way delay: 44.750 ms  
Loss rate: 0.27%

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

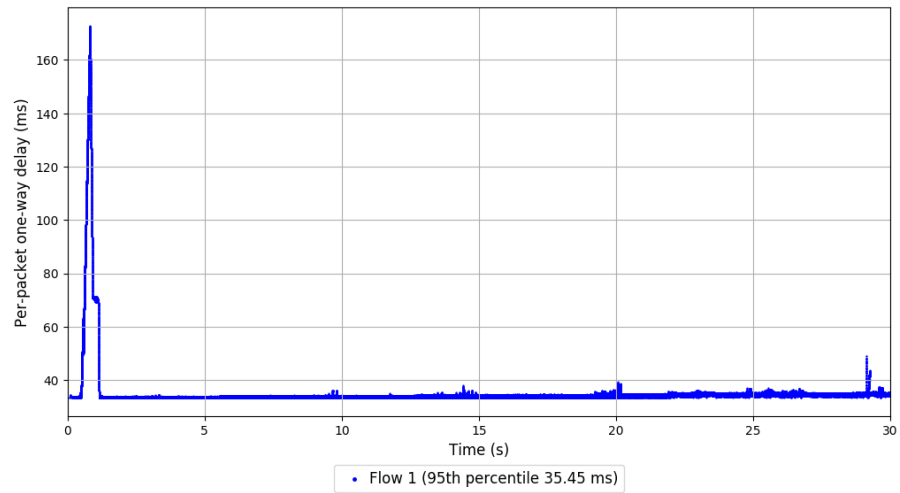
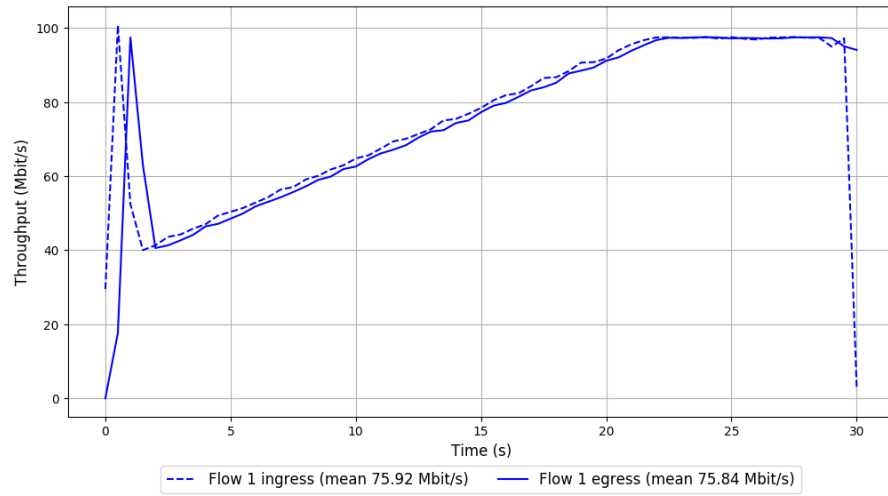


Run 1: Statistics of TCP Vegas

Start at: 2019-01-25 10:41:39  
End at: 2019-01-25 10:42:09  
Local clock offset: -2.466 ms  
Remote clock offset: -3.199 ms

# Below is generated by plot.py at 2019-01-25 13:02:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.84 Mbit/s  
95th percentile per-packet one-way delay: 35.454 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 75.84 Mbit/s  
95th percentile per-packet one-way delay: 35.454 ms  
Loss rate: 0.31%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-01-25 11:07:35

End at: 2019-01-25 11:08:05

Local clock offset: -4.2 ms

Remote clock offset: -2.57 ms

# Below is generated by plot.py at 2019-01-25 13:02:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 35.069 ms

Loss rate: 0.28%

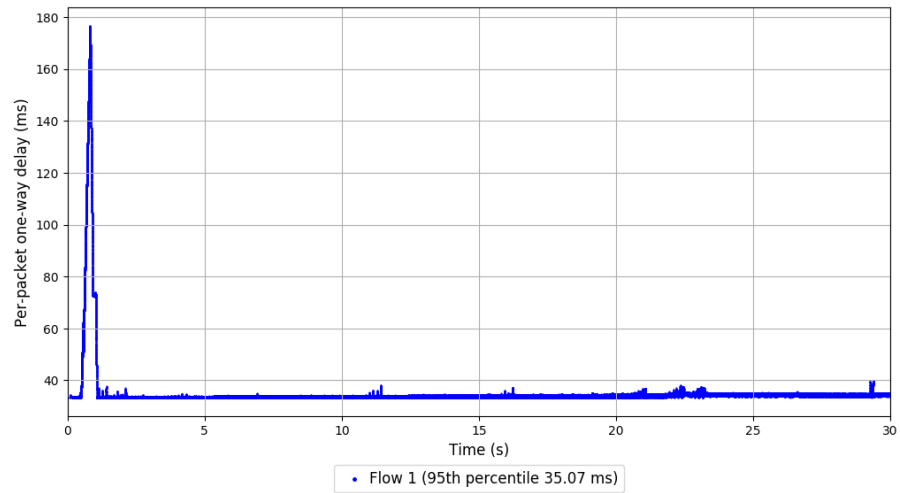
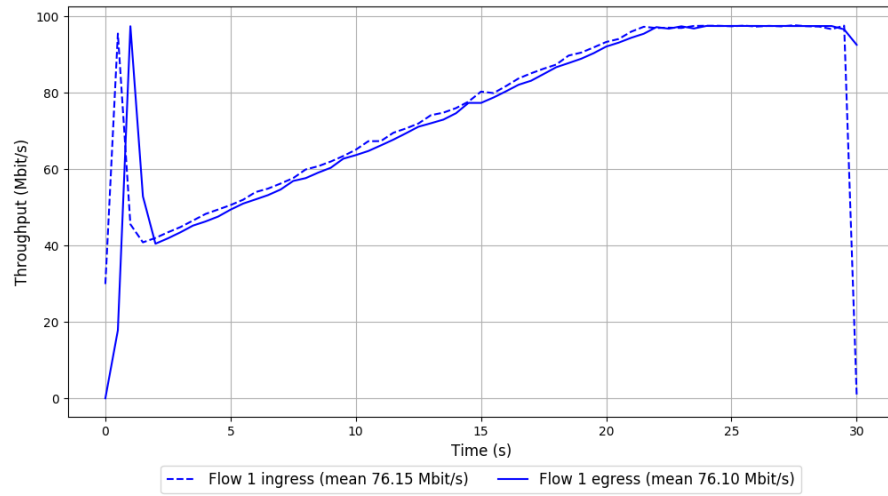
-- Flow 1:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 35.069 ms

Loss rate: 0.28%

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

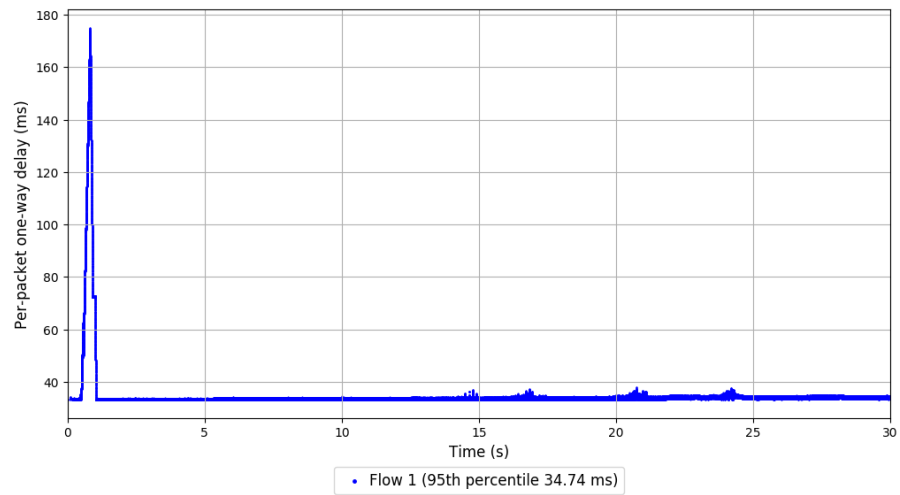
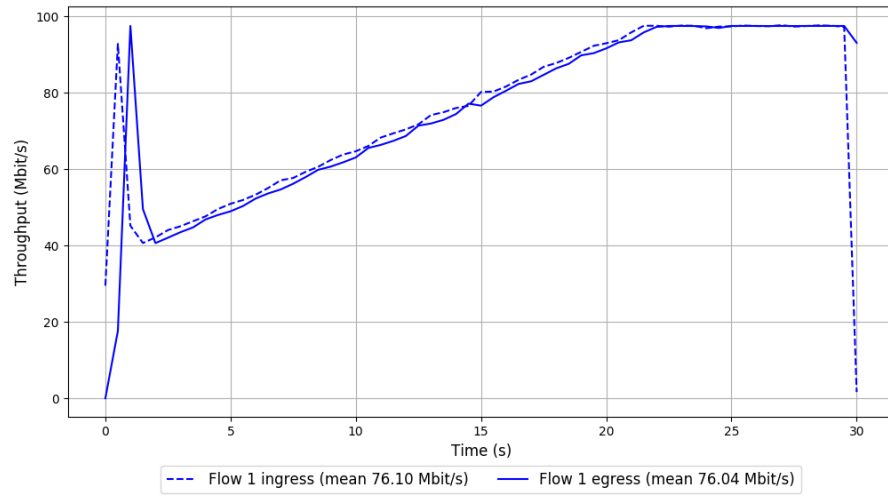


Run 3: Statistics of TCP Vegas

Start at: 2019-01-25 11:33:04  
End at: 2019-01-25 11:33:34  
Local clock offset: -4.206 ms  
Remote clock offset: -1.748 ms

# Below is generated by plot.py at 2019-01-25 13:02:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.04 Mbit/s  
95th percentile per-packet one-way delay: 34.744 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 76.04 Mbit/s  
95th percentile per-packet one-way delay: 34.744 ms  
Loss rate: 0.28%

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



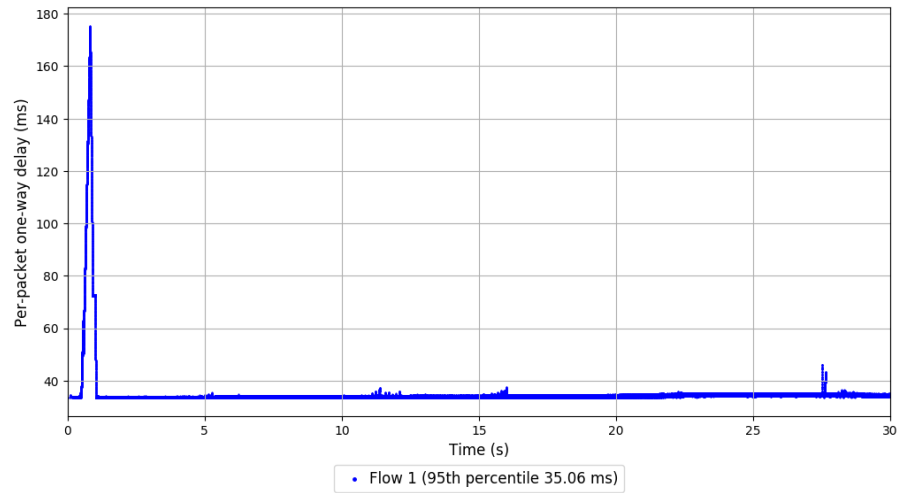
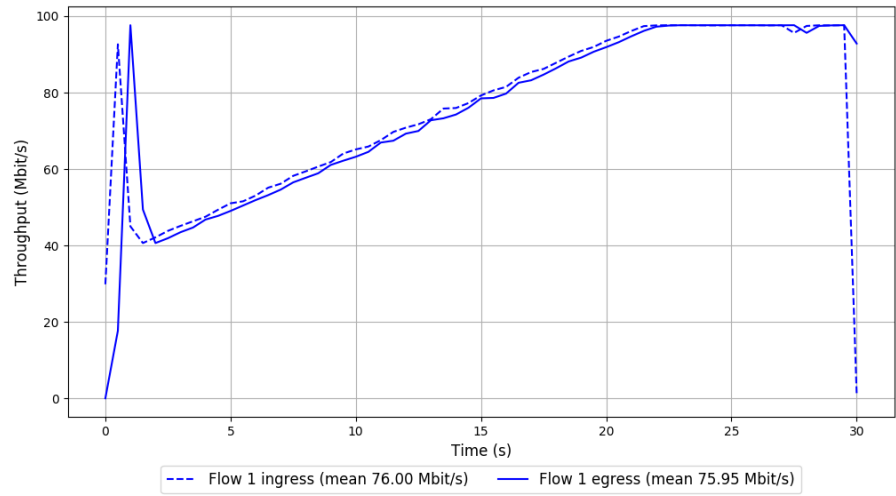


Run 4: Statistics of TCP Vegas

Start at: 2019-01-25 11:58:14  
End at: 2019-01-25 11:58:44  
Local clock offset: -2.35 ms  
Remote clock offset: -1.762 ms

# Below is generated by plot.py at 2019-01-25 13:02:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.95 Mbit/s  
95th percentile per-packet one-way delay: 35.059 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 75.95 Mbit/s  
95th percentile per-packet one-way delay: 35.059 ms  
Loss rate: 0.28%

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

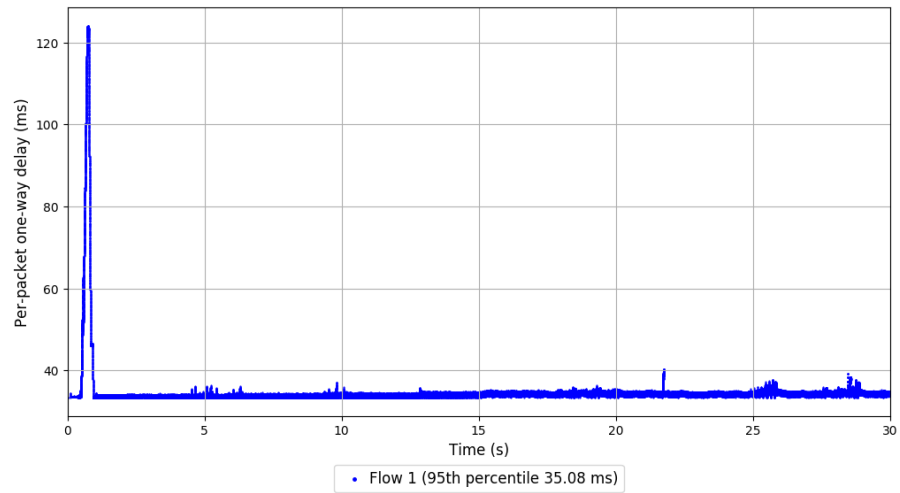
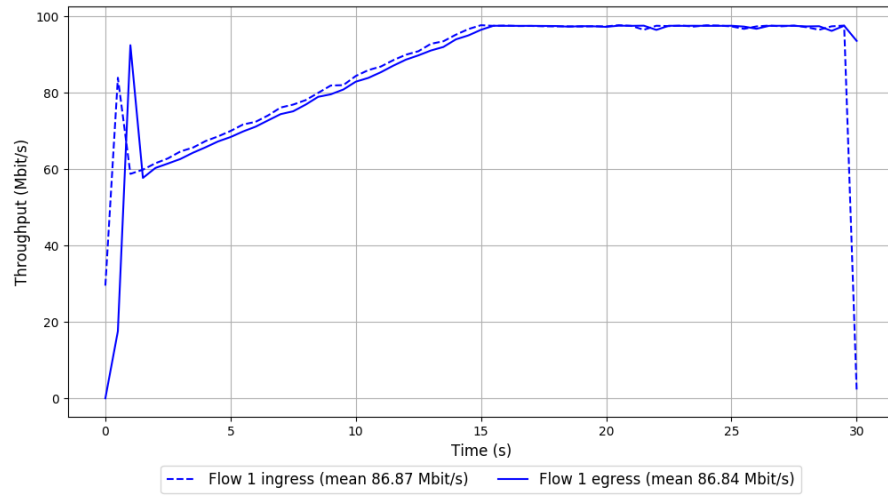


Run 5: Statistics of TCP Vegas

Start at: 2019-01-25 12:23:39  
End at: 2019-01-25 12:24:09  
Local clock offset: 1.31 ms  
Remote clock offset: -1.509 ms

# Below is generated by plot.py at 2019-01-25 13:02:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.84 Mbit/s  
95th percentile per-packet one-way delay: 35.084 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 86.84 Mbit/s  
95th percentile per-packet one-way delay: 35.084 ms  
Loss rate: 0.25%

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

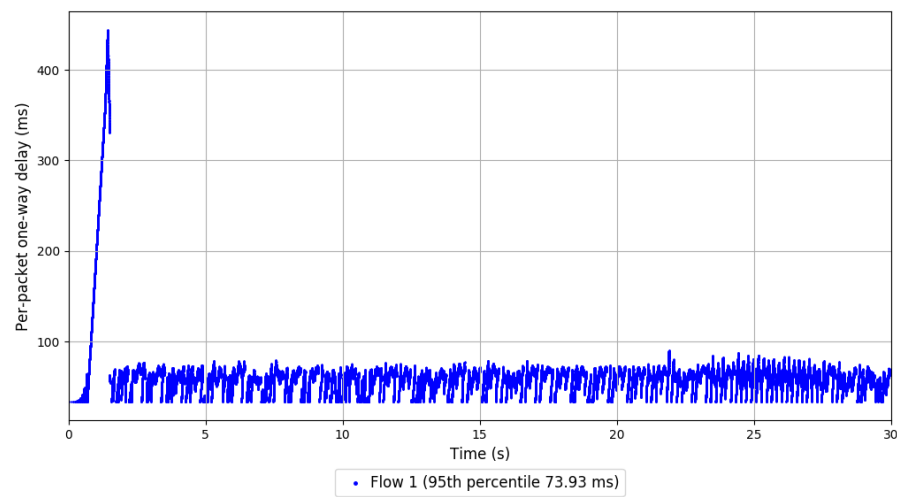
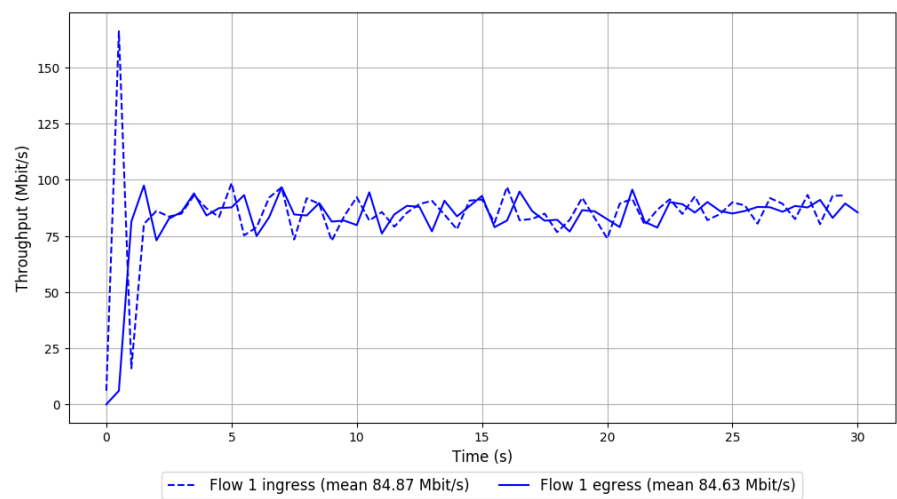


Run 1: Statistics of Verus

Start at: 2019-01-25 11:01:24  
End at: 2019-01-25 11:01:54  
Local clock offset: -3.906 ms  
Remote clock offset: -2.735 ms

# Below is generated by plot.py at 2019-01-25 13:02:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.63 Mbit/s  
95th percentile per-packet one-way delay: 73.929 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 84.63 Mbit/s  
95th percentile per-packet one-way delay: 73.929 ms  
Loss rate: 0.48%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-25 11:27:00

End at: 2019-01-25 11:27:30

Local clock offset: -5.007 ms

Remote clock offset: -2.03 ms

# Below is generated by plot.py at 2019-01-25 13:02:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.22 Mbit/s

95th percentile per-packet one-way delay: 75.211 ms

Loss rate: 0.41%

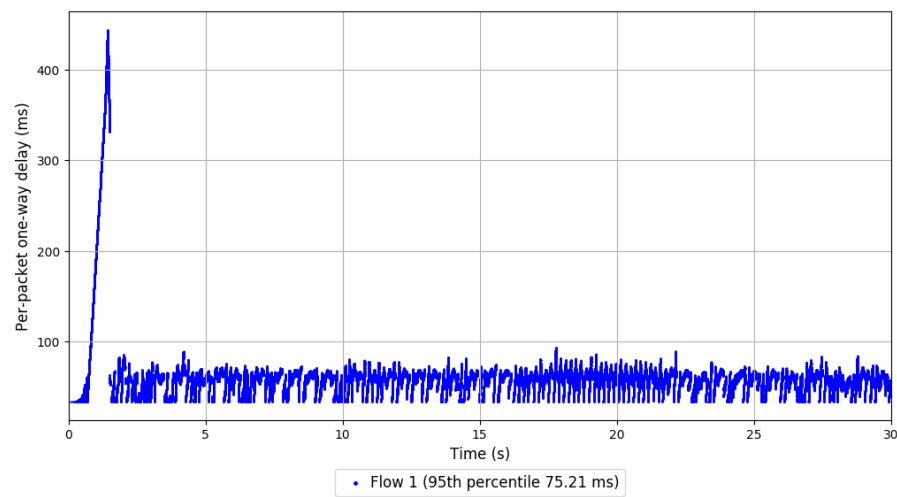
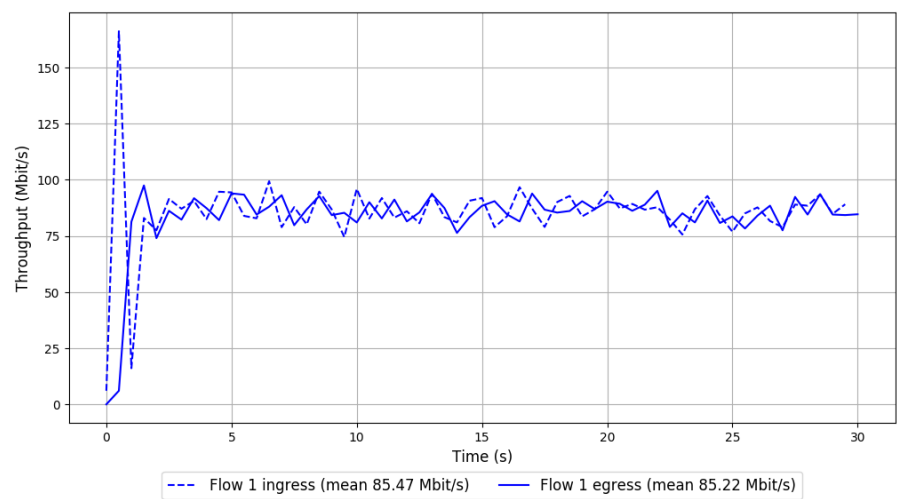
-- Flow 1:

Average throughput: 85.22 Mbit/s

95th percentile per-packet one-way delay: 75.211 ms

Loss rate: 0.41%

Run 2: Report of Verus — Data Link



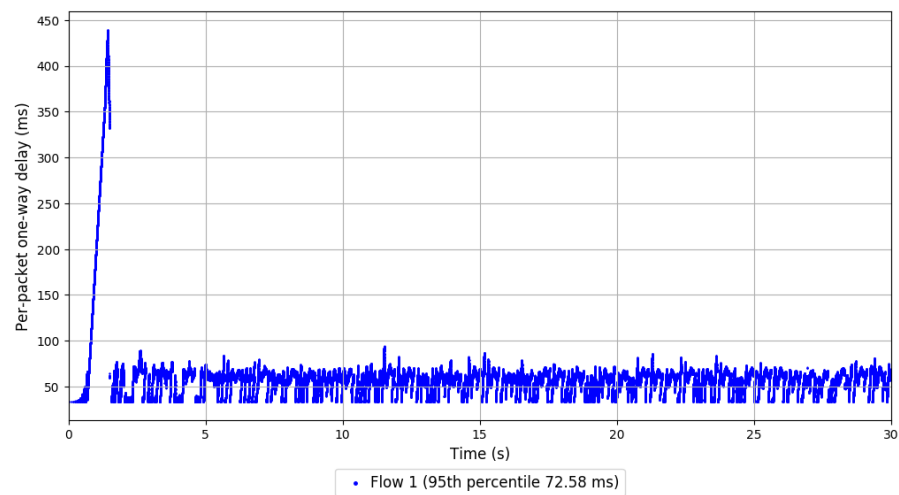
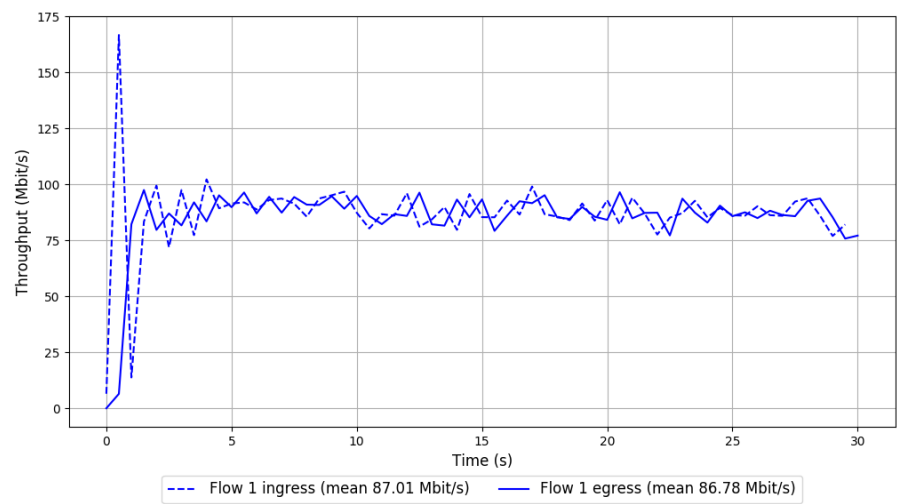


Run 3: Statistics of Verus

Start at: 2019-01-25 11:52:11  
End at: 2019-01-25 11:52:41  
Local clock offset: -2.469 ms  
Remote clock offset: -1.542 ms

# Below is generated by plot.py at 2019-01-25 13:02:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.78 Mbit/s  
95th percentile per-packet one-way delay: 72.581 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 86.78 Mbit/s  
95th percentile per-packet one-way delay: 72.581 ms  
Loss rate: 0.47%

Run 3: Report of Verus — Data Link

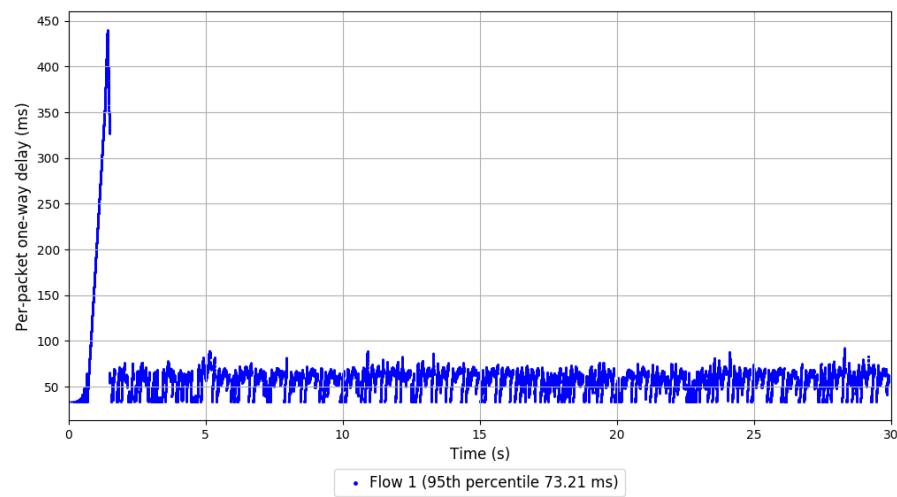
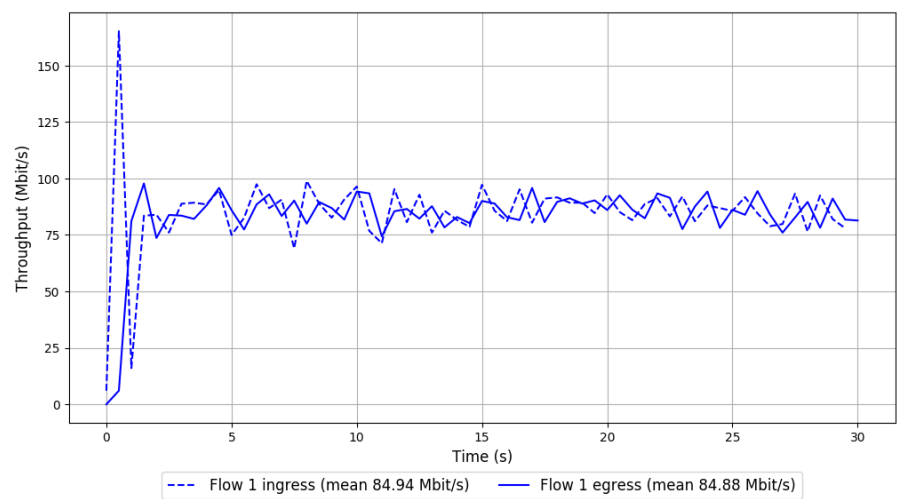


Run 4: Statistics of Verus

Start at: 2019-01-25 12:17:24  
End at: 2019-01-25 12:17:54  
Local clock offset: 0.842 ms  
Remote clock offset: -1.524 ms

# Below is generated by plot.py at 2019-01-25 13:02:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.88 Mbit/s  
95th percentile per-packet one-way delay: 73.208 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 84.88 Mbit/s  
95th percentile per-packet one-way delay: 73.208 ms  
Loss rate: 0.33%

Run 4: Report of Verus — Data Link

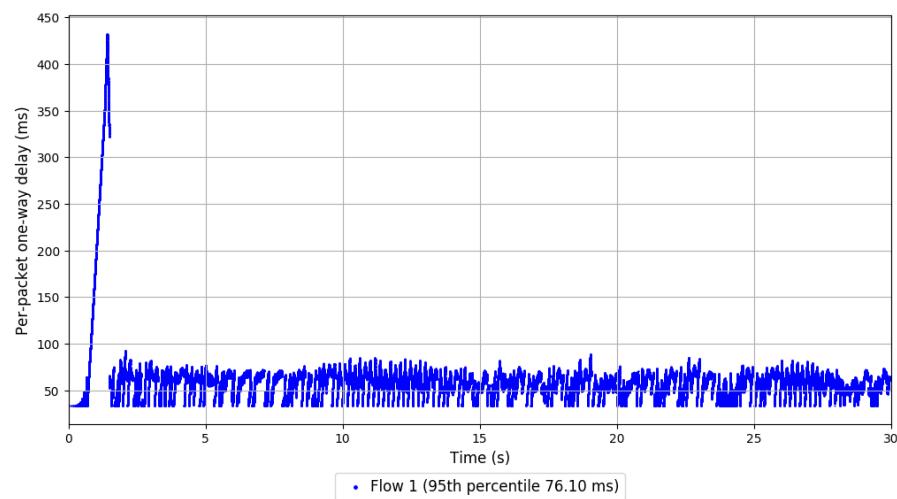
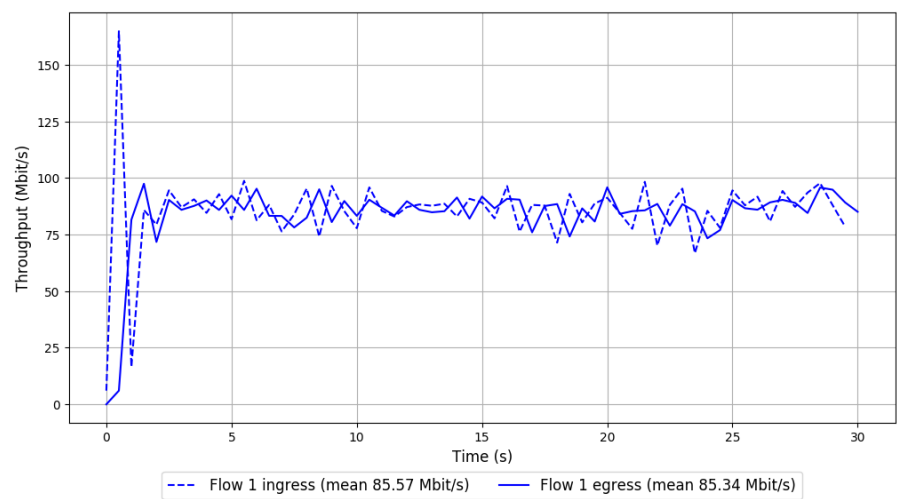


Run 5: Statistics of Verus

Start at: 2019-01-25 12:42:31  
End at: 2019-01-25 12:43:01  
Local clock offset: 0.869 ms  
Remote clock offset: -1.577 ms

# Below is generated by plot.py at 2019-01-25 13:02:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.34 Mbit/s  
95th percentile per-packet one-way delay: 76.101 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 85.34 Mbit/s  
95th percentile per-packet one-way delay: 76.101 ms  
Loss rate: 0.25%

Run 5: Report of Verus — Data Link

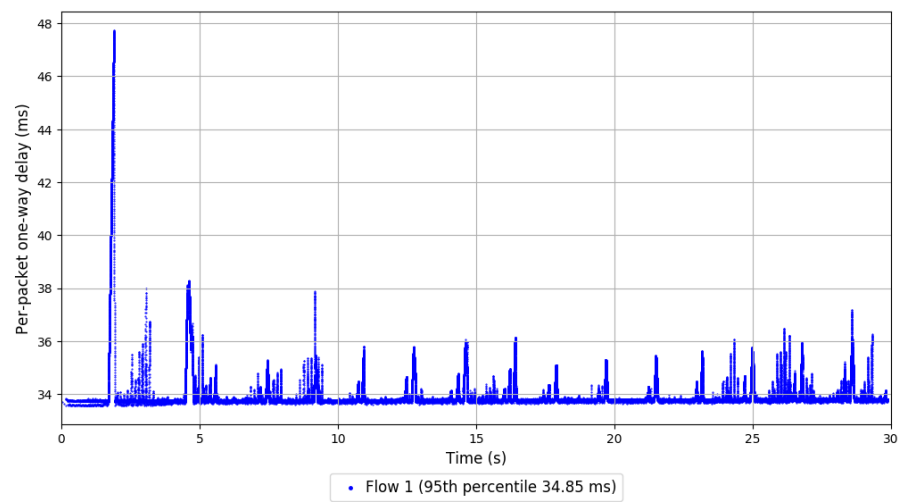
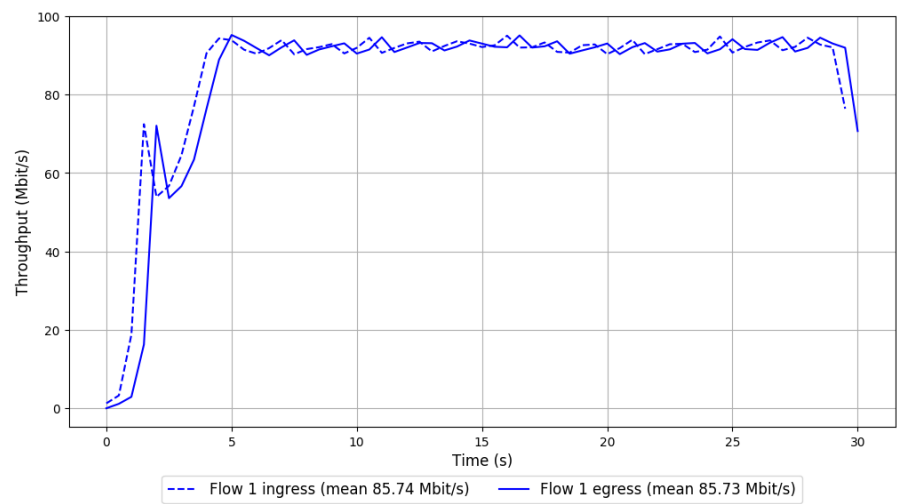


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-25 10:42:48  
End at: 2019-01-25 10:43:18  
Local clock offset: -2.577 ms  
Remote clock offset: -3.403 ms

# Below is generated by plot.py at 2019-01-25 13:03:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.73 Mbit/s  
95th percentile per-packet one-way delay: 34.854 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 85.73 Mbit/s  
95th percentile per-packet one-way delay: 34.854 ms  
Loss rate: 0.23%

Run 1: Report of PCC-Vivace — Data Link



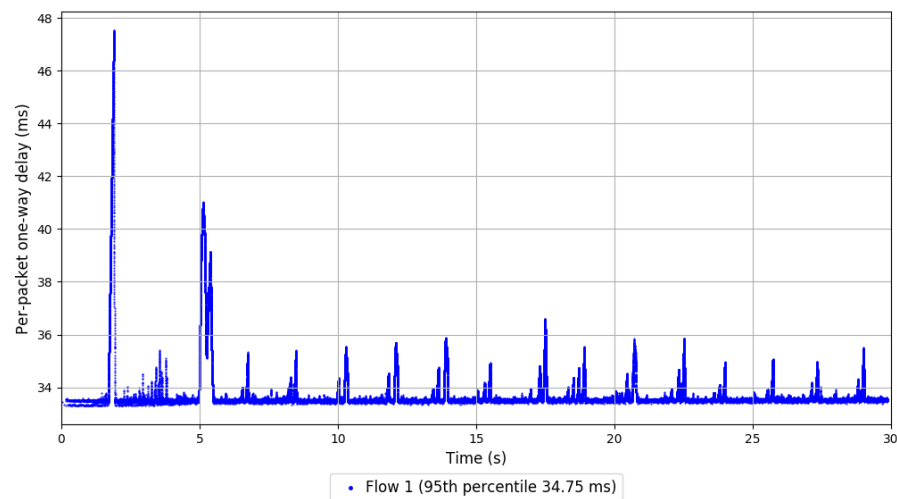
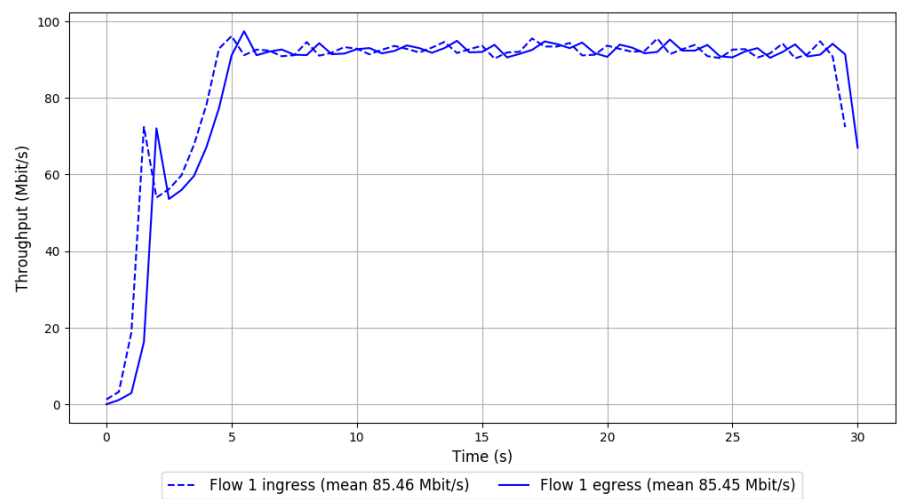


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-25 11:08:51  
End at: 2019-01-25 11:09:21  
Local clock offset: -4.256 ms  
Remote clock offset: -2.498 ms

# Below is generated by plot.py at 2019-01-25 13:03:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.45 Mbit/s  
95th percentile per-packet one-way delay: 34.748 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 85.45 Mbit/s  
95th percentile per-packet one-way delay: 34.748 ms  
Loss rate: 0.22%

Run 2: Report of PCC-Vivace — Data Link

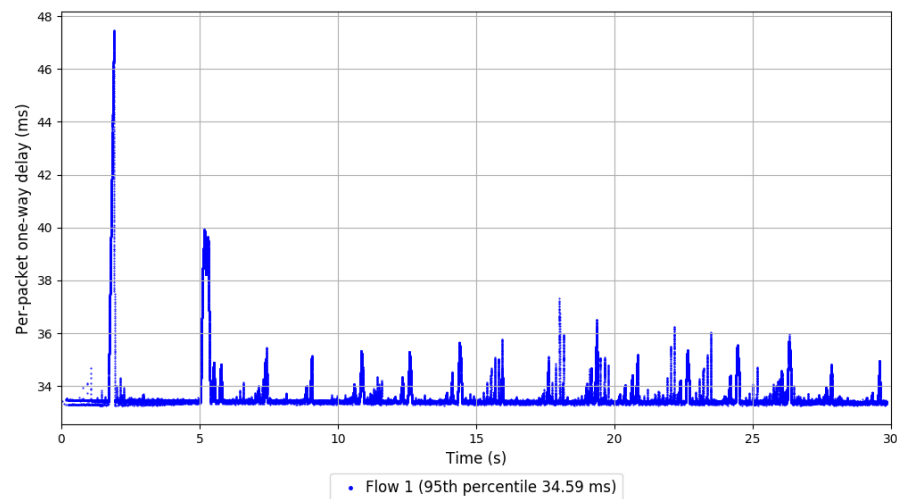
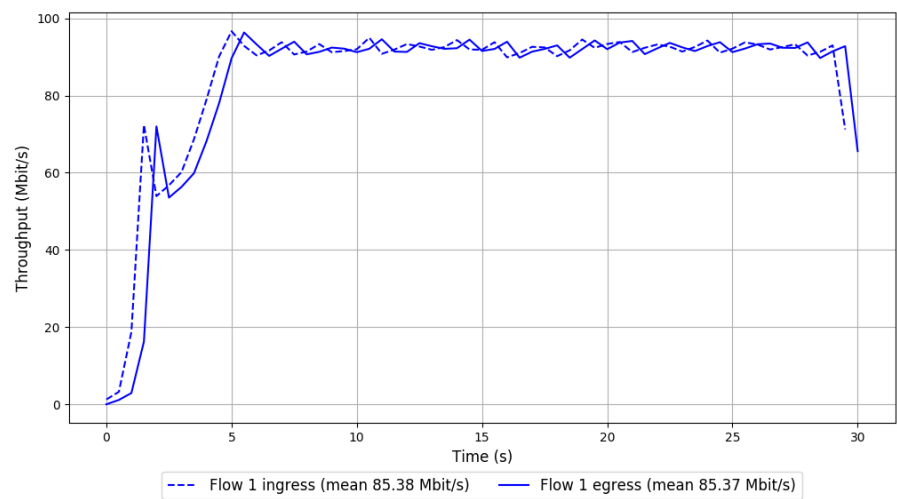


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-25 11:34:20  
End at: 2019-01-25 11:34:50  
Local clock offset: -3.925 ms  
Remote clock offset: -1.691 ms

# Below is generated by plot.py at 2019-01-25 13:03:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.37 Mbit/s  
95th percentile per-packet one-way delay: 34.594 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 85.37 Mbit/s  
95th percentile per-packet one-way delay: 34.594 ms  
Loss rate: 0.24%

Run 3: Report of PCC-Vivace — Data Link

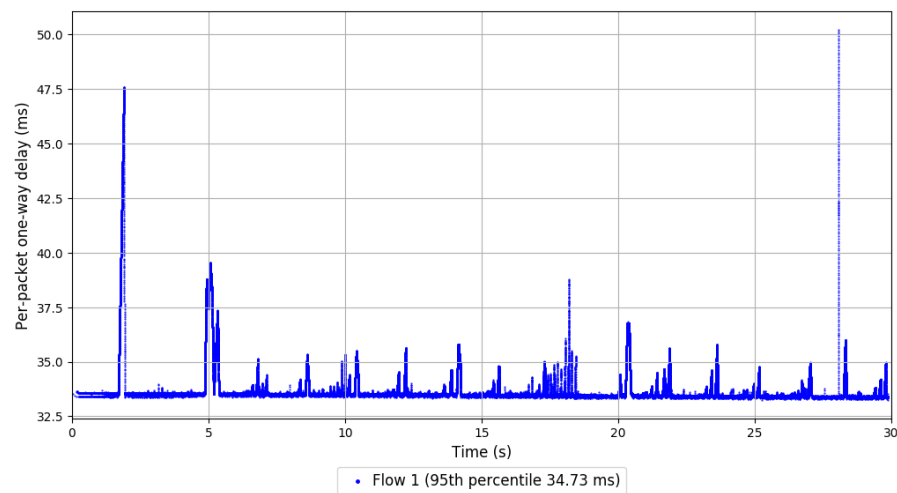
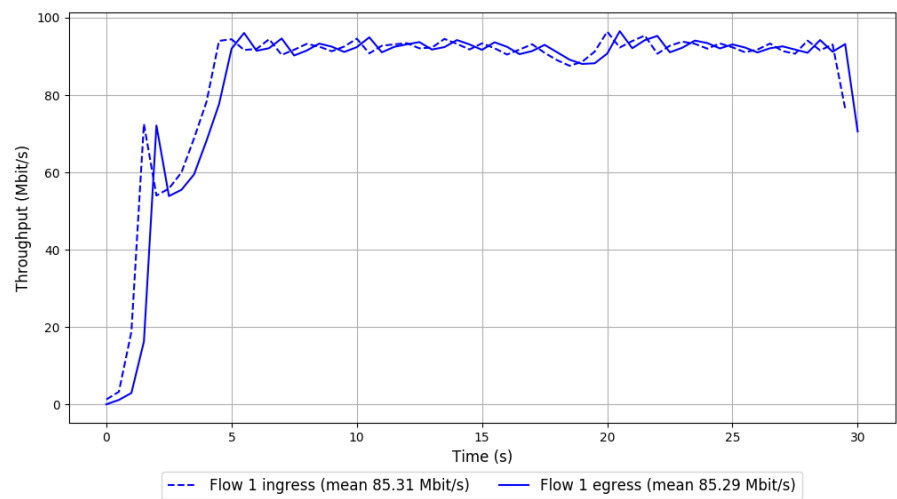


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-25 11:59:25  
End at: 2019-01-25 11:59:55  
Local clock offset: -2.327 ms  
Remote clock offset: -1.758 ms

# Below is generated by plot.py at 2019-01-25 13:03:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.29 Mbit/s  
95th percentile per-packet one-way delay: 34.729 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 85.29 Mbit/s  
95th percentile per-packet one-way delay: 34.729 ms  
Loss rate: 0.24%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-25 12:24:49

End at: 2019-01-25 12:25:19

Local clock offset: 1.375 ms

Remote clock offset: -1.459 ms

# Below is generated by plot.py at 2019-01-25 13:03:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.10 Mbit/s

95th percentile per-packet one-way delay: 34.750 ms

Loss rate: 0.22%

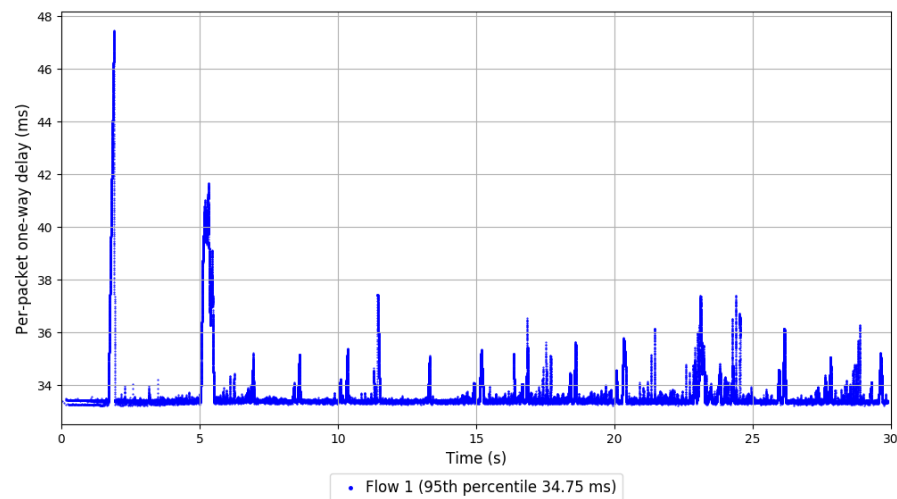
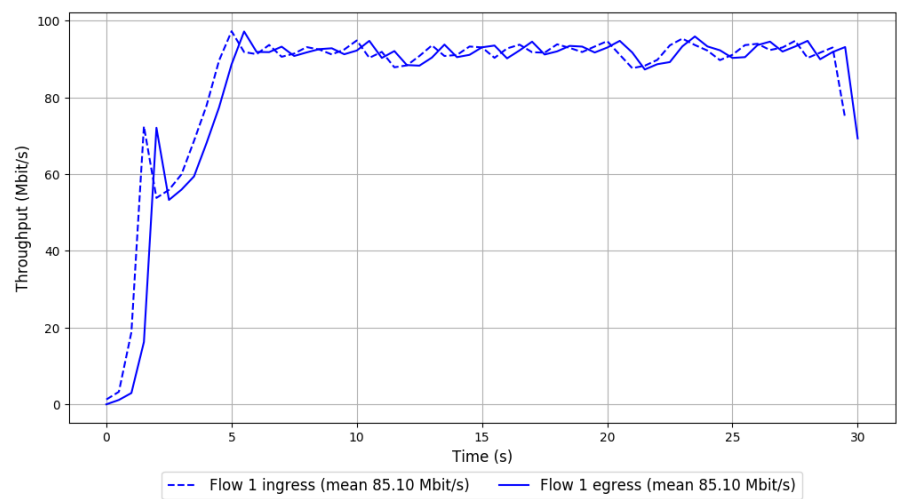
-- Flow 1:

Average throughput: 85.10 Mbit/s

95th percentile per-packet one-way delay: 34.750 ms

Loss rate: 0.22%

Run 5: Report of PCC-Vivace — Data Link



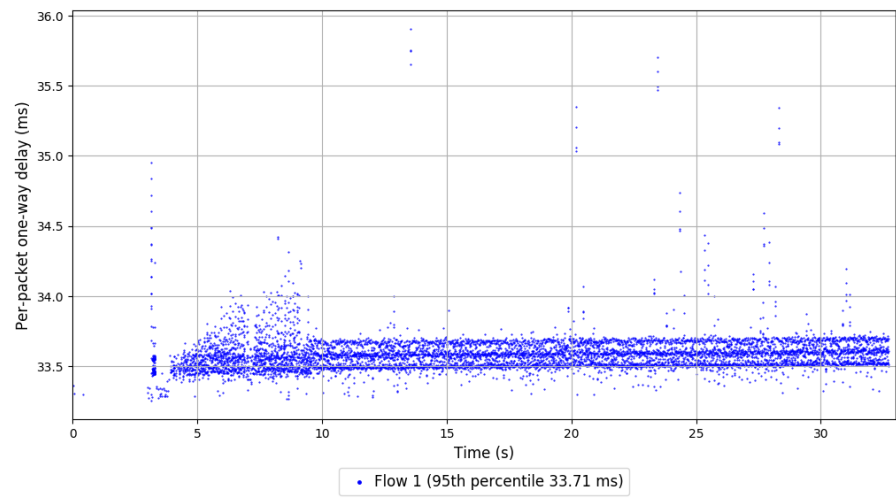
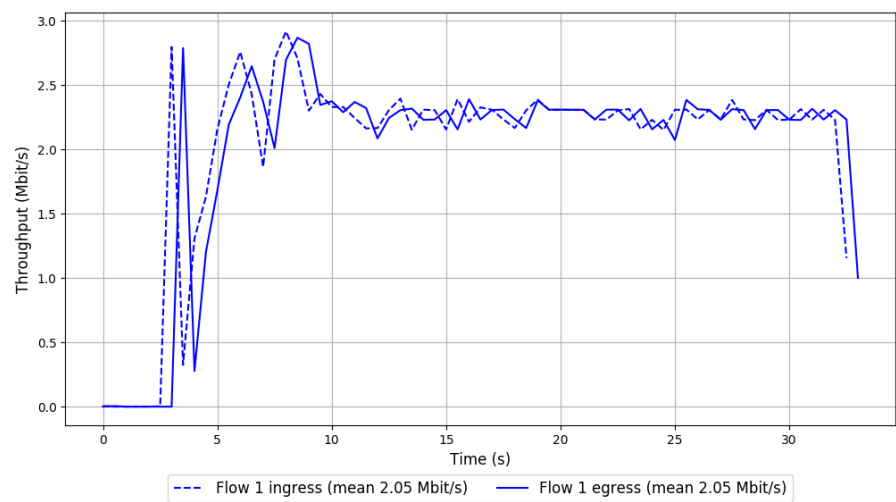


Run 1: Statistics of WebRTC media

Start at: 2019-01-25 11:06:29  
End at: 2019-01-25 11:06:59  
Local clock offset: -4.147 ms  
Remote clock offset: -2.605 ms

# Below is generated by plot.py at 2019-01-25 13:03:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.05 Mbit/s  
95th percentile per-packet one-way delay: 33.710 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 2.05 Mbit/s  
95th percentile per-packet one-way delay: 33.710 ms  
Loss rate: 0.23%

Run 1: Report of WebRTC media — Data Link

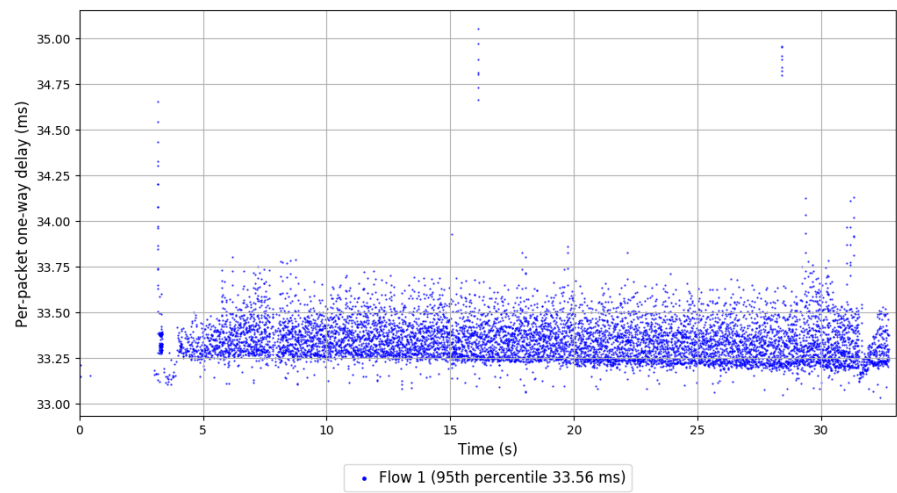
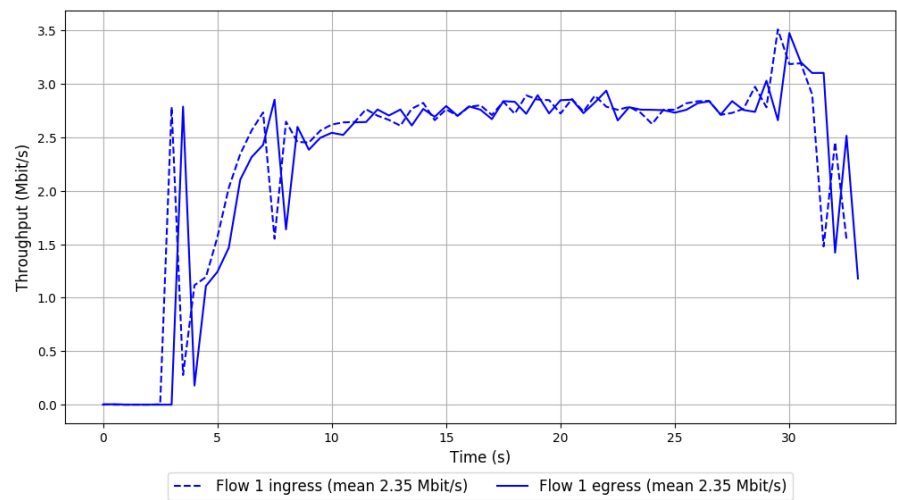


Run 2: Statistics of WebRTC media

Start at: 2019-01-25 11:31:58  
End at: 2019-01-25 11:32:28  
Local clock offset: -4.456 ms  
Remote clock offset: -1.756 ms

# Below is generated by plot.py at 2019-01-25 13:03:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 33.562 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 33.562 ms  
Loss rate: 0.30%

Run 2: Report of WebRTC media — Data Link

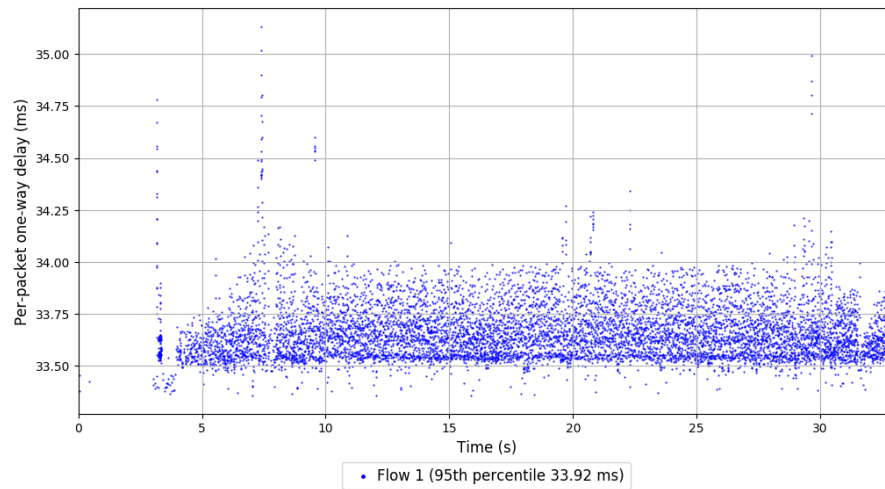
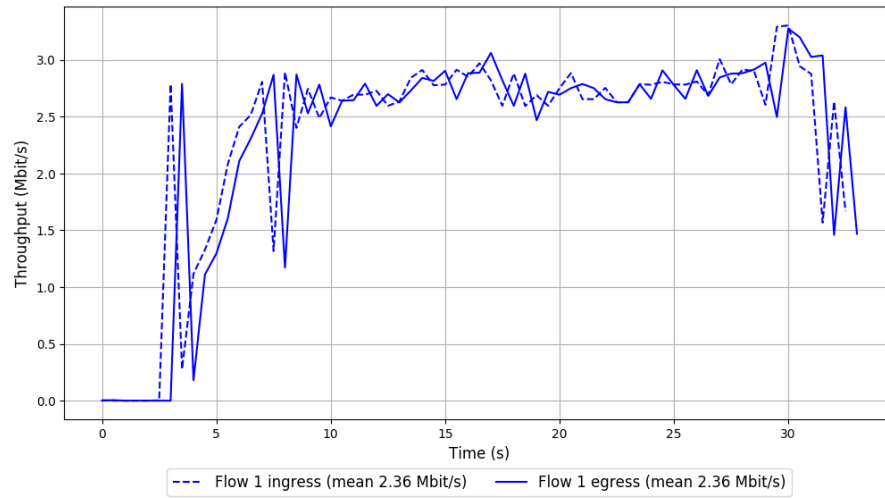


Run 3: Statistics of WebRTC media

Start at: 2019-01-25 11:57:08  
End at: 2019-01-25 11:57:38  
Local clock offset: -2.362 ms  
Remote clock offset: -1.591 ms

# Below is generated by plot.py at 2019-01-25 13:03:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 33.917 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 33.917 ms  
Loss rate: 0.25%

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

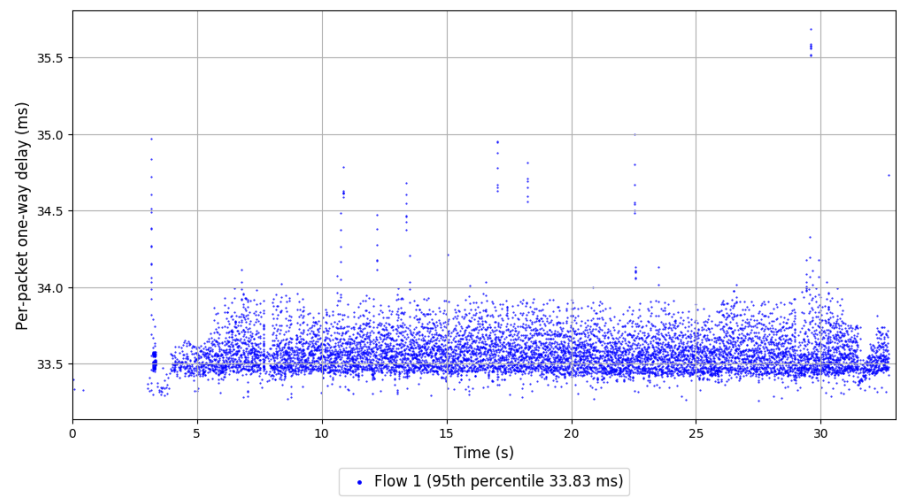
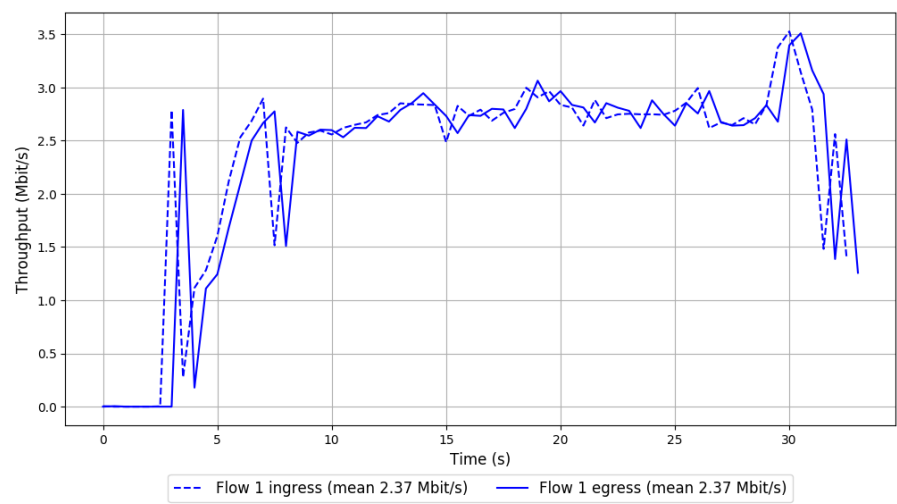


Run 4: Statistics of WebRTC media

Start at: 2019-01-25 12:22:33  
End at: 2019-01-25 12:23:03  
Local clock offset: 1.248 ms  
Remote clock offset: -1.491 ms

# Below is generated by plot.py at 2019-01-25 13:03:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 33.830 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 33.830 ms  
Loss rate: 0.22%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-25 12:47:18  
End at: 2019-01-25 12:47:48  
Local clock offset: 0.842 ms  
Remote clock offset: -1.513 ms

# Below is generated by plot.py at 2019-01-25 13:03:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 33.751 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 33.751 ms  
Loss rate: 0.24%

Run 5: Report of WebRTC media — Data Link

