

## Pantheon Report

Generated at 2019-03-18 21:29:49 (UTC).

Data path: AWS India 1 on `ens5` (*local*) → India on `em1` (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

### System info:

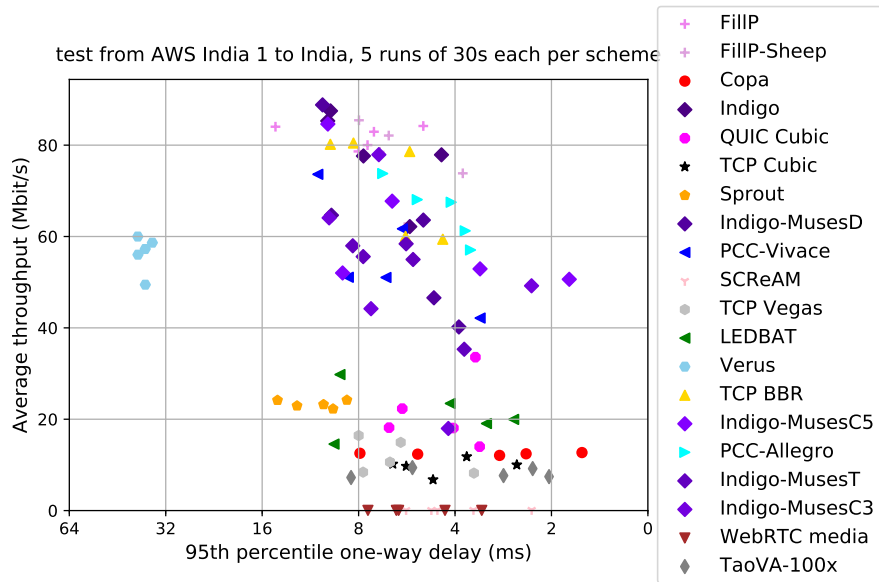
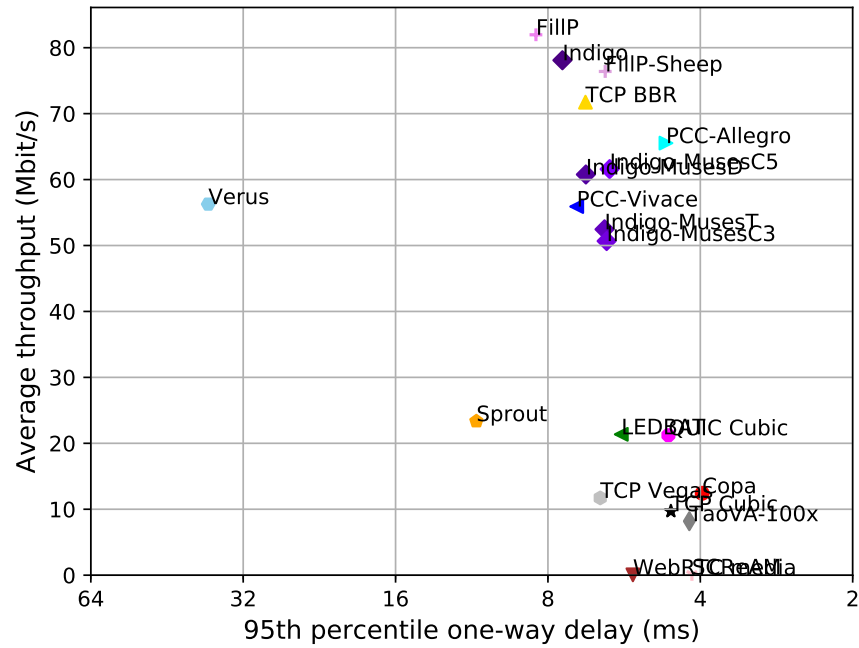
```
Linux 4.15.0-1033-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS India 1 to India, 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	71.74	6.74	10.78
Copa	5	12.42	3.97	69.32
TCP Cubic	5	9.70	4.57	0.88
FillP	5	81.96	8.45	11.33
FillP-Sheep	5	76.40	6.17	9.53
Indigo	5	78.09	7.49	10.28
Indigo-MusesC3	5	50.68	6.13	5.83
Indigo-MusesC5	5	61.58	6.04	8.28
Indigo-MusesD	5	60.77	6.73	7.91
Indigo-MusesT	5	52.45	6.18	7.09
LEDBAT	5	21.36	5.73	0.51
PCC-Allegro	5	65.53	4.68	9.67
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	21.22	4.62	1.17
SCReAM	5	0.12	4.16	1.19
Sprout	5	23.36	11.08	2.35
TaoVA-100x	5	8.19	4.21	77.49
TCP Vegas	5	11.72	6.31	0.84
Verus	5	56.27	37.51	31.28
PCC-Vivace	5	55.91	7.02	7.48
WebRTC media	5	0.05	5.44	0.21

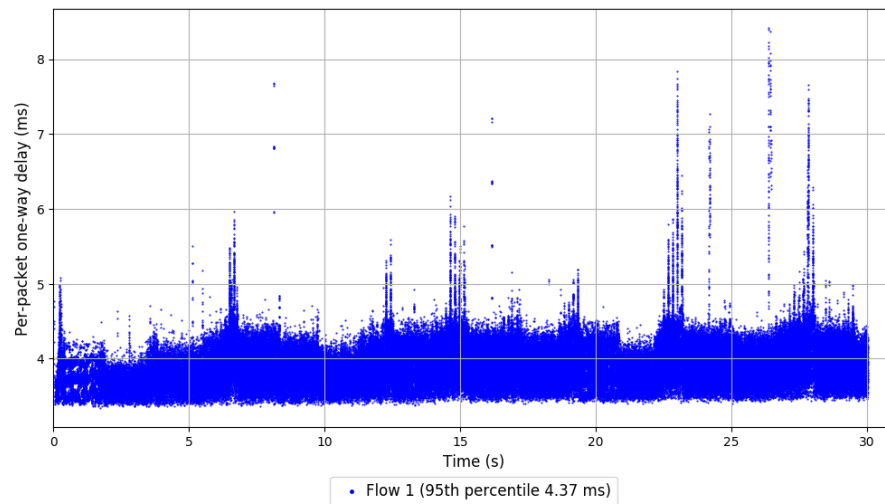
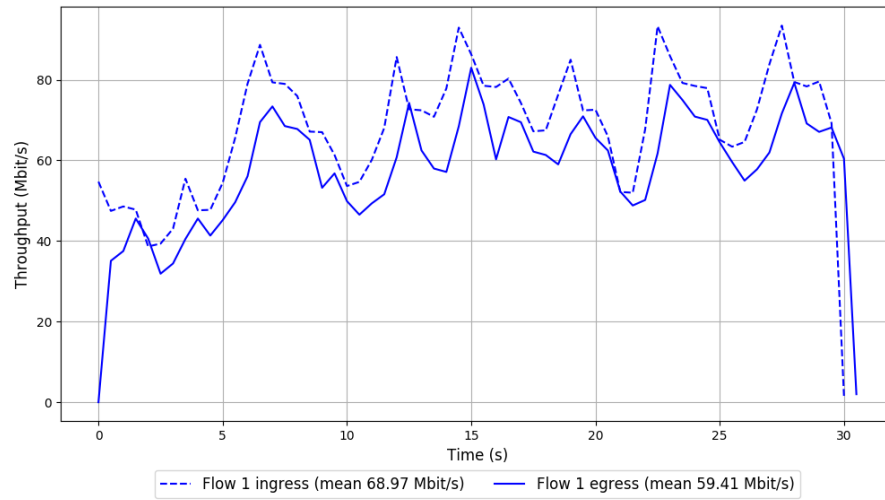


Run 1: Statistics of TCP BBR

Start at: 2019-03-18 19:30:46  
End at: 2019-03-18 19:31:16  
Local clock offset: -10.234 ms  
Remote clock offset: -7.358 ms

# Below is generated by plot.py at 2019-03-18 21:23:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 59.41 Mbit/s  
95th percentile per-packet one-way delay: 4.369 ms  
Loss rate: 13.86%  
-- Flow 1:  
Average throughput: 59.41 Mbit/s  
95th percentile per-packet one-way delay: 4.369 ms  
Loss rate: 13.86%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-18 19:54:37

End at: 2019-03-18 19:55:07

Local clock offset: -8.08 ms

Remote clock offset: -7.981 ms

# Below is generated by plot.py at 2019-03-18 21:23:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.02 Mbit/s

95th percentile per-packet one-way delay: 5.708 ms

Loss rate: 13.59%

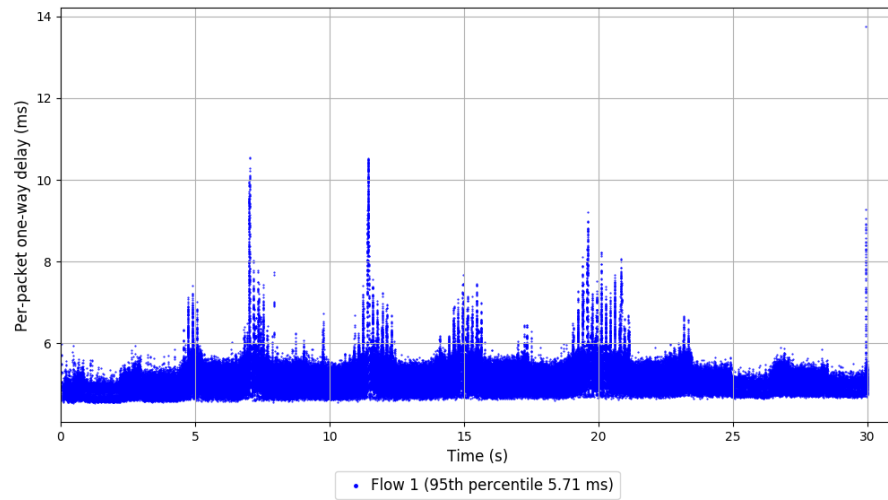
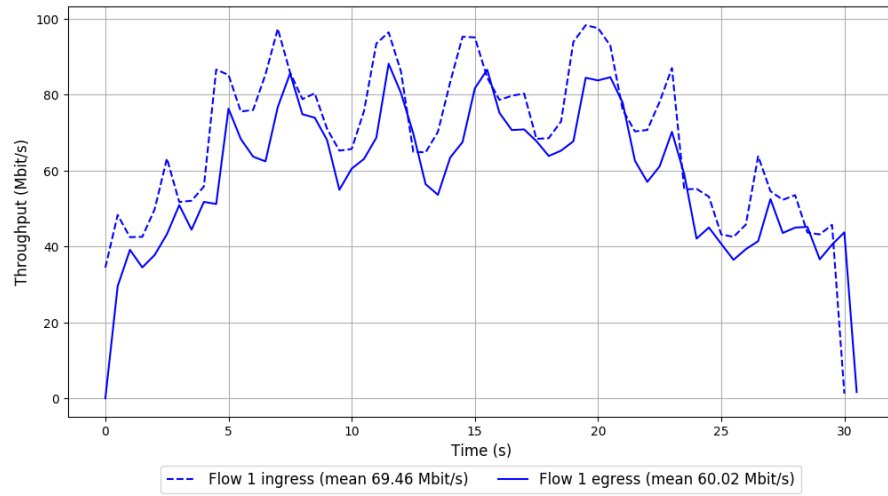
-- Flow 1:

Average throughput: 60.02 Mbit/s

95th percentile per-packet one-way delay: 5.708 ms

Loss rate: 13.59%

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

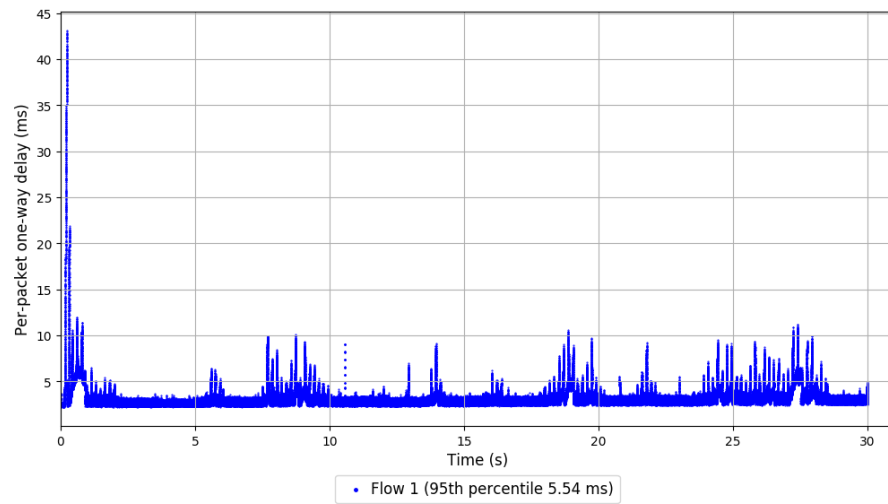
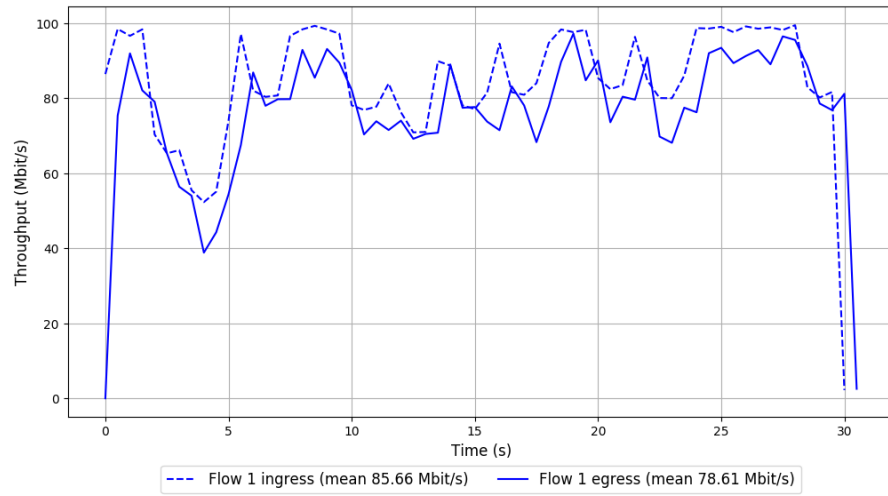


Run 3: Statistics of TCP BBR

Start at: 2019-03-18 20:18:19  
End at: 2019-03-18 20:18:49  
Local clock offset: -6.714 ms  
Remote clock offset: -9.563 ms

# Below is generated by plot.py at 2019-03-18 21:23:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.61 Mbit/s  
95th percentile per-packet one-way delay: 5.541 ms  
Loss rate: 8.23%  
-- Flow 1:  
Average throughput: 78.61 Mbit/s  
95th percentile per-packet one-way delay: 5.541 ms  
Loss rate: 8.23%

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

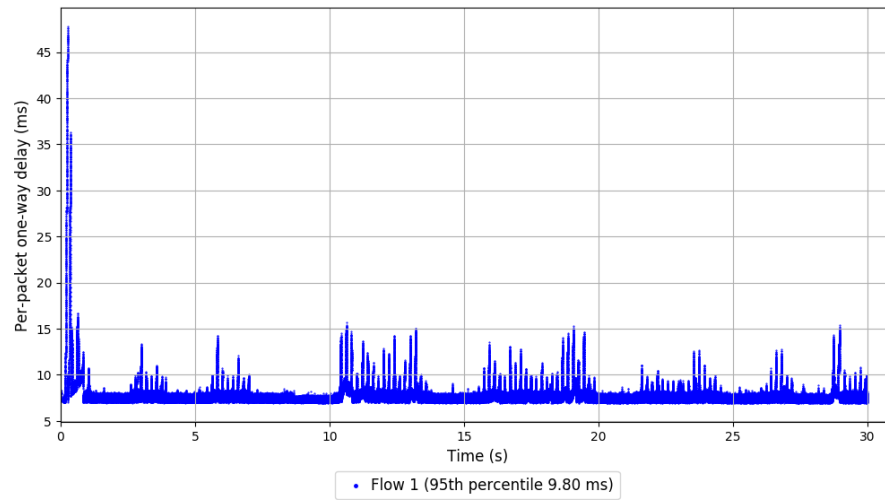
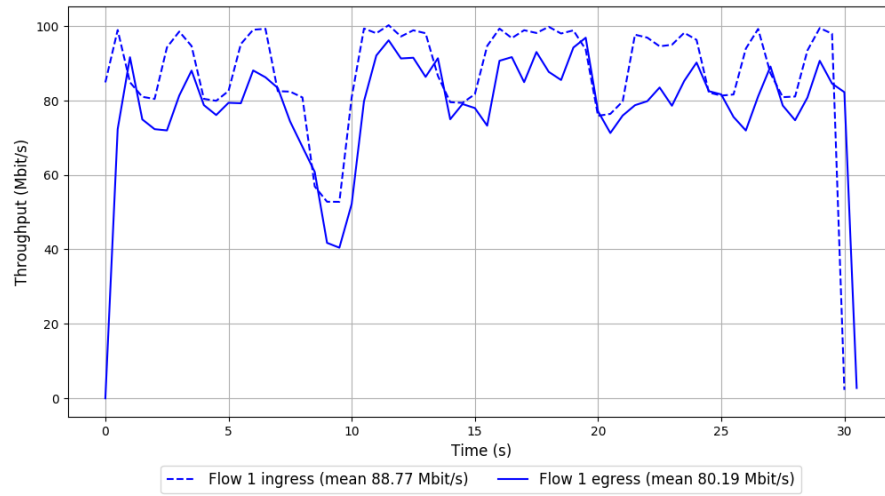


Run 4: Statistics of TCP BBR

Start at: 2019-03-18 20:41:54  
End at: 2019-03-18 20:42:24  
Local clock offset: -5.735 ms  
Remote clock offset: -7.078 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.19 Mbit/s  
95th percentile per-packet one-way delay: 9.802 ms  
Loss rate: 9.67%  
-- Flow 1:  
Average throughput: 80.19 Mbit/s  
95th percentile per-packet one-way delay: 9.802 ms  
Loss rate: 9.67%

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





Run 5: Statistics of TCP BBR

Start at: 2019-03-18 21:05:20

End at: 2019-03-18 21:05:50

Local clock offset: -0.922 ms

Remote clock offset: -7.17 ms

# Below is generated by plot.py at 2019-03-18 21:23:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.47 Mbit/s

95th percentile per-packet one-way delay: 8.301 ms

Loss rate: 8.56%

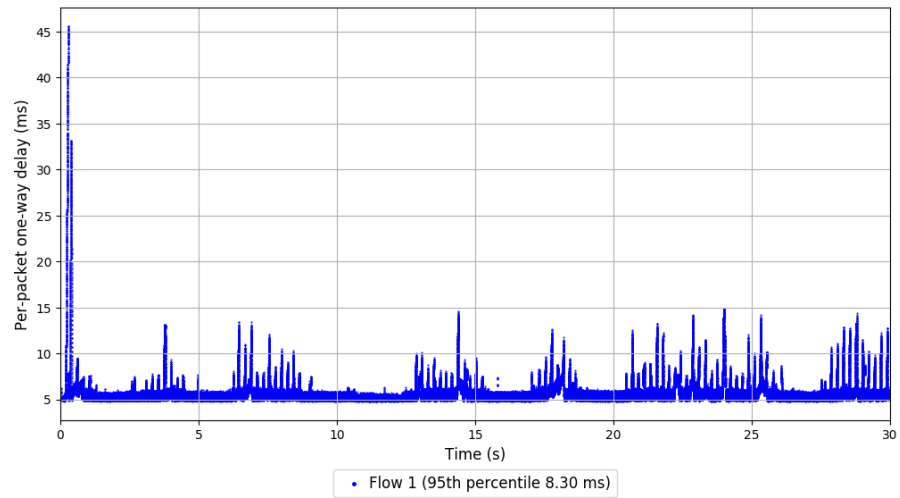
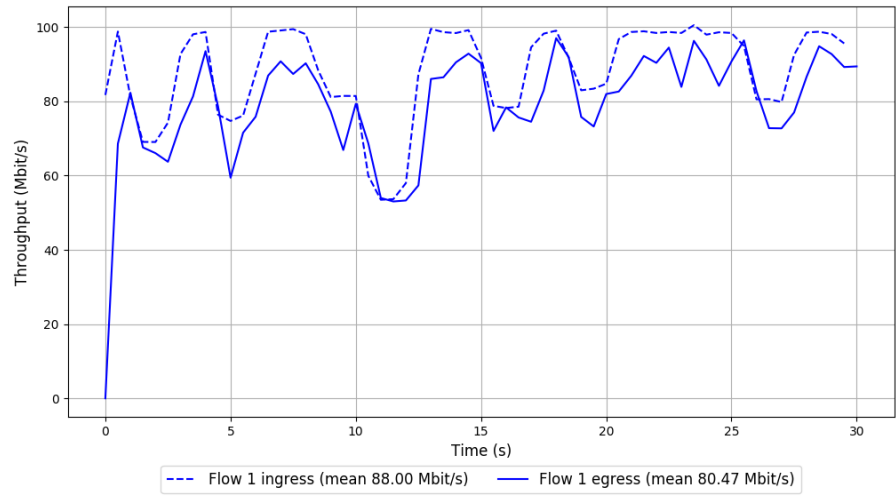
-- Flow 1:

Average throughput: 80.47 Mbit/s

95th percentile per-packet one-way delay: 8.301 ms

Loss rate: 8.56%

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

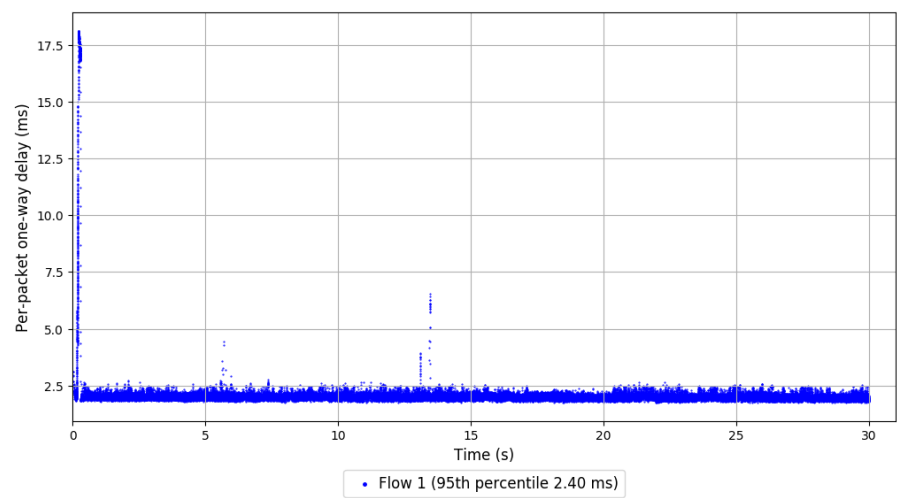
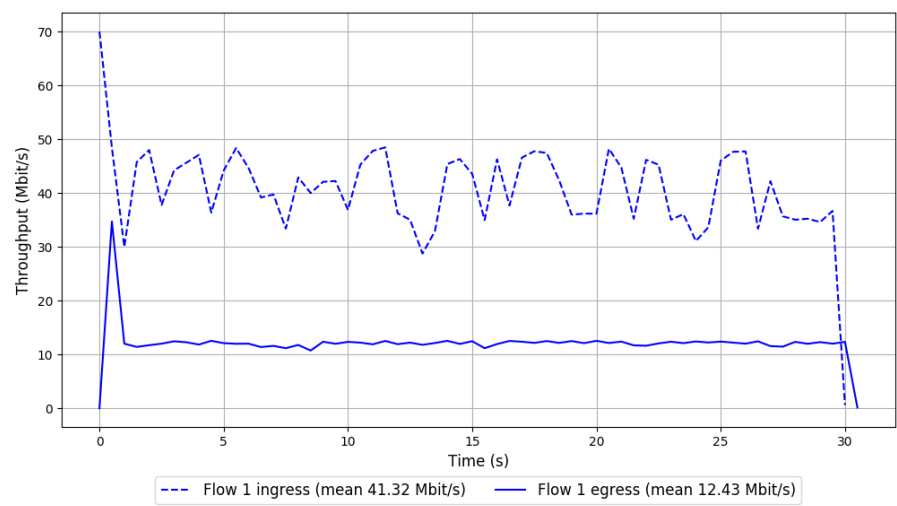


Run 1: Statistics of Copa

Start at: 2019-03-18 19:36:19  
End at: 2019-03-18 19:36:49  
Local clock offset: -9.59 ms  
Remote clock offset: -8.423 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.43 Mbit/s  
95th percentile per-packet one-way delay: 2.400 ms  
Loss rate: 69.91%  
-- Flow 1:  
Average throughput: 12.43 Mbit/s  
95th percentile per-packet one-way delay: 2.400 ms  
Loss rate: 69.91%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-03-18 20:00:13

End at: 2019-03-18 20:00:43

Local clock offset: -5.896 ms

Remote clock offset: -9.02 ms

# Below is generated by plot.py at 2019-03-18 21:23:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 2.904 ms

Loss rate: 69.31%

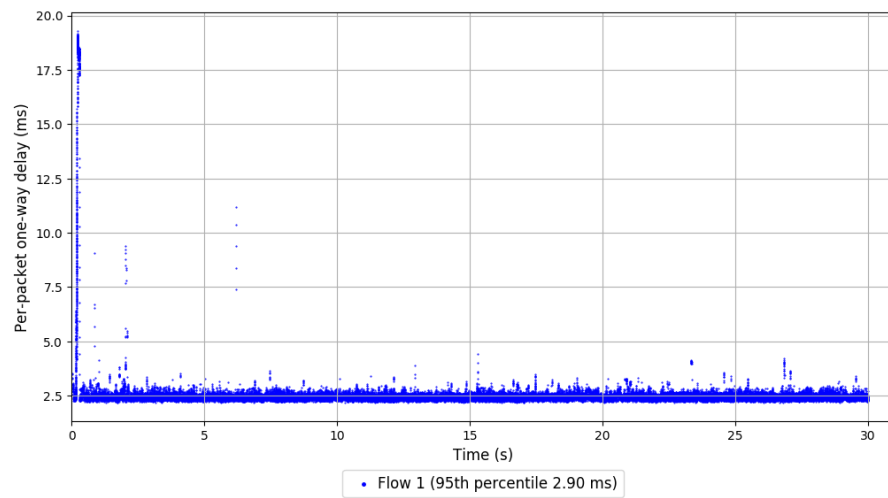
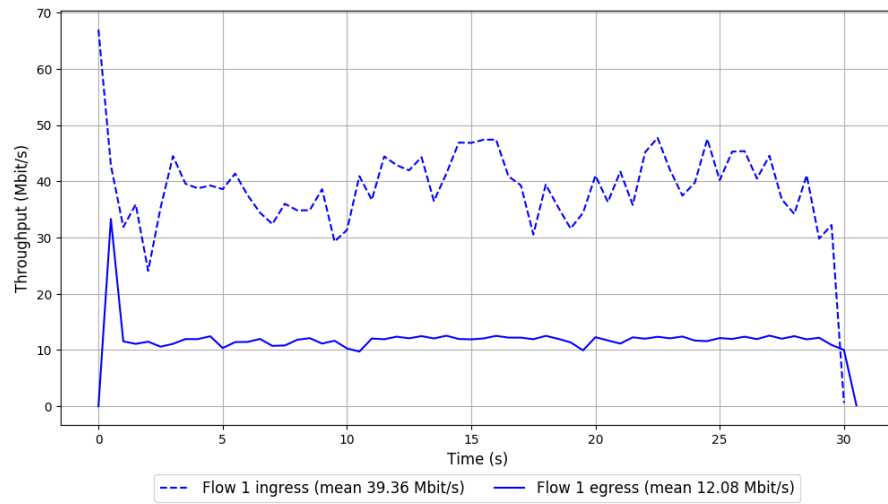
-- Flow 1:

Average throughput: 12.08 Mbit/s

95th percentile per-packet one-way delay: 2.904 ms

Loss rate: 69.31%

## Run 2: Report of Copa — Data Link

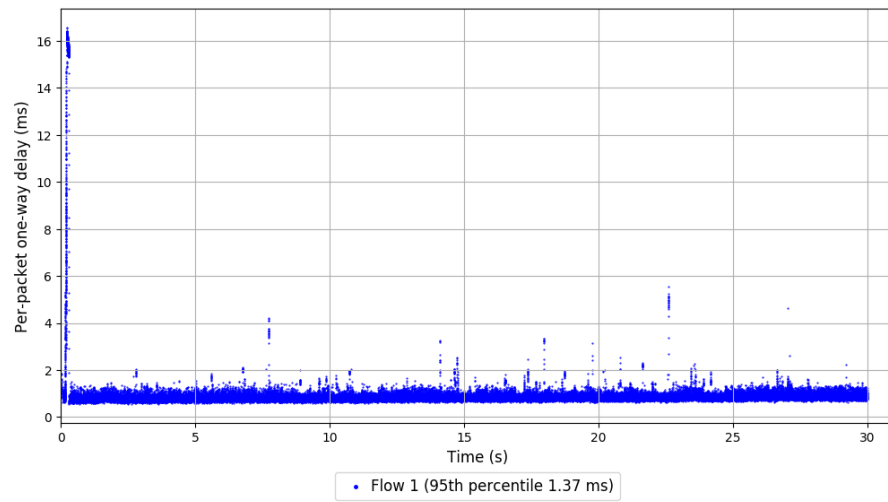
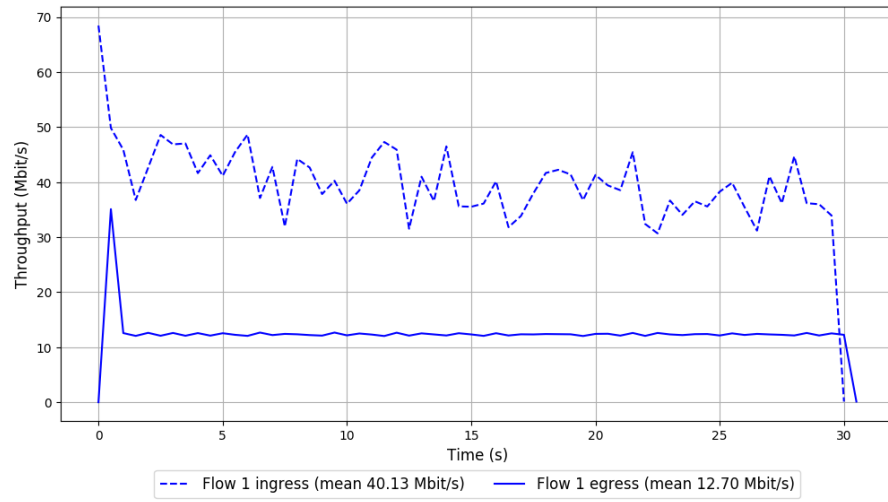


Run 3: Statistics of Copa

Start at: 2019-03-18 20:23:56  
End at: 2019-03-18 20:24:26  
Local clock offset: -4.069 ms  
Remote clock offset: -10.508 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 1.367 ms  
Loss rate: 68.35%  
-- Flow 1:  
Average throughput: 12.70 Mbit/s  
95th percentile per-packet one-way delay: 1.367 ms  
Loss rate: 68.35%

### Run 3: Report of Copa — Data Link



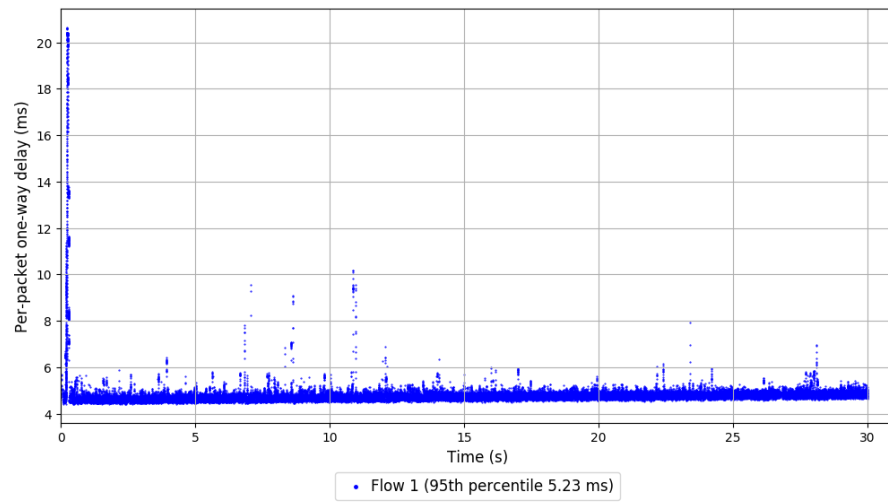
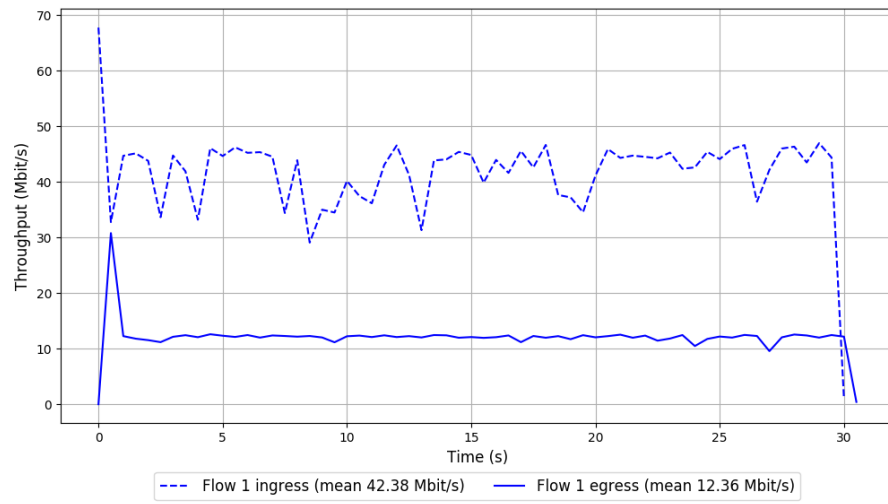


Run 4: Statistics of Copa

Start at: 2019-03-18 20:47:27  
End at: 2019-03-18 20:47:57  
Local clock offset: -4.38 ms  
Remote clock offset: -8.605 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.36 Mbit/s  
95th percentile per-packet one-way delay: 5.232 ms  
Loss rate: 70.85%  
-- Flow 1:  
Average throughput: 12.36 Mbit/s  
95th percentile per-packet one-way delay: 5.232 ms  
Loss rate: 70.85%

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

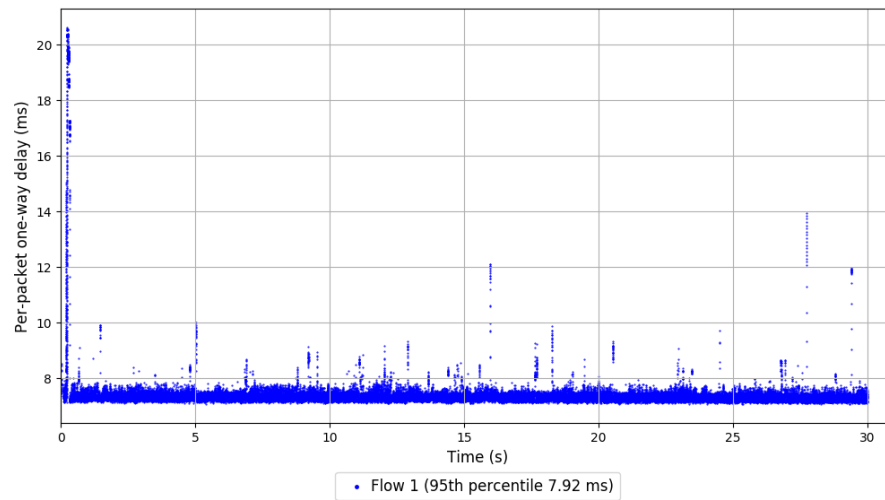
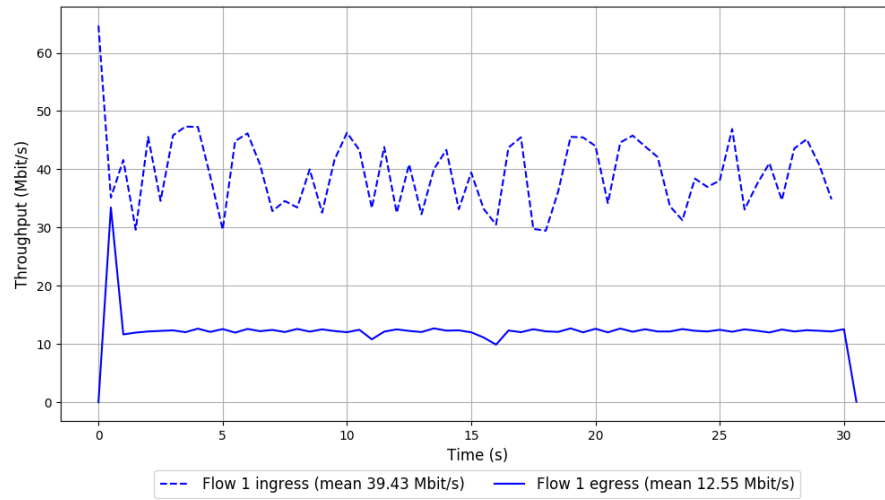


Run 5: Statistics of Copa

Start at: 2019-03-18 21:10:54  
End at: 2019-03-18 21:11:24  
Local clock offset: -3.267 ms  
Remote clock offset: -6.816 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 7.925 ms  
Loss rate: 68.18%  
-- Flow 1:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 7.925 ms  
Loss rate: 68.18%

### Run 5: Report of Copa — Data Link

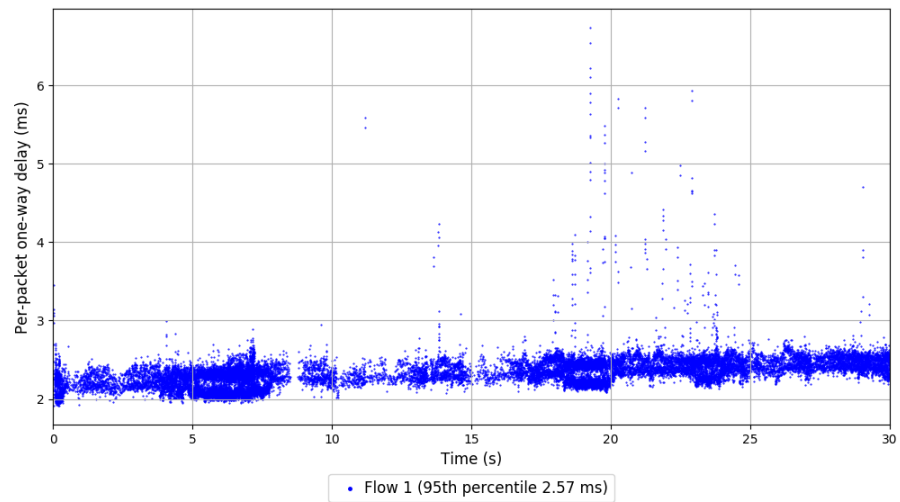
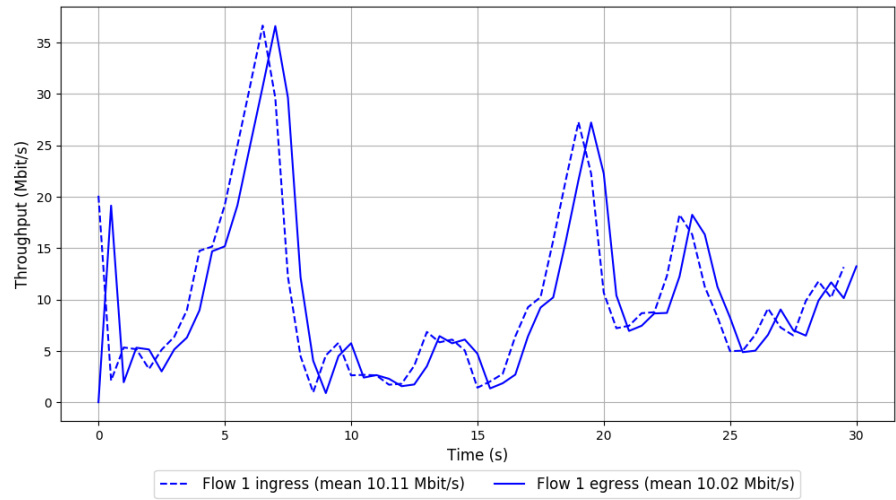


Run 1: Statistics of TCP Cubic

Start at: 2019-03-18 19:26:14  
End at: 2019-03-18 19:26:44  
Local clock offset: -11.744 ms  
Remote clock offset: -8.566 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.02 Mbit/s  
95th percentile per-packet one-way delay: 2.566 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 10.02 Mbit/s  
95th percentile per-packet one-way delay: 2.566 ms  
Loss rate: 0.94%

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

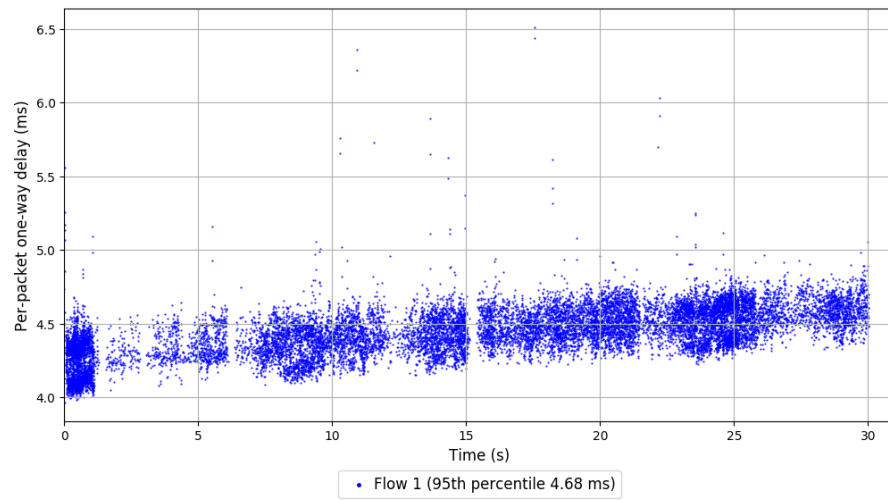
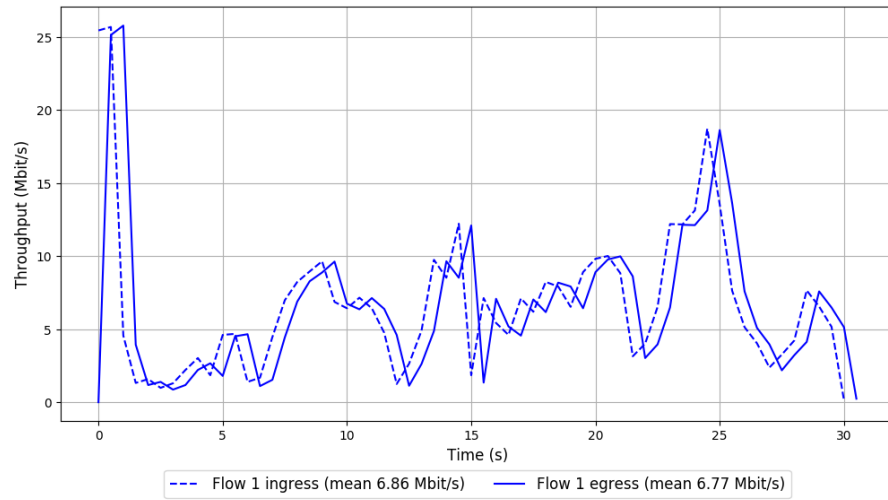


Run 2: Statistics of TCP Cubic

Start at: 2019-03-18 19:49:59  
End at: 2019-03-18 19:50:29  
Local clock offset: -10.139 ms  
Remote clock offset: -8.406 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.77 Mbit/s  
95th percentile per-packet one-way delay: 4.685 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 6.77 Mbit/s  
95th percentile per-packet one-way delay: 4.685 ms  
Loss rate: 1.36%

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



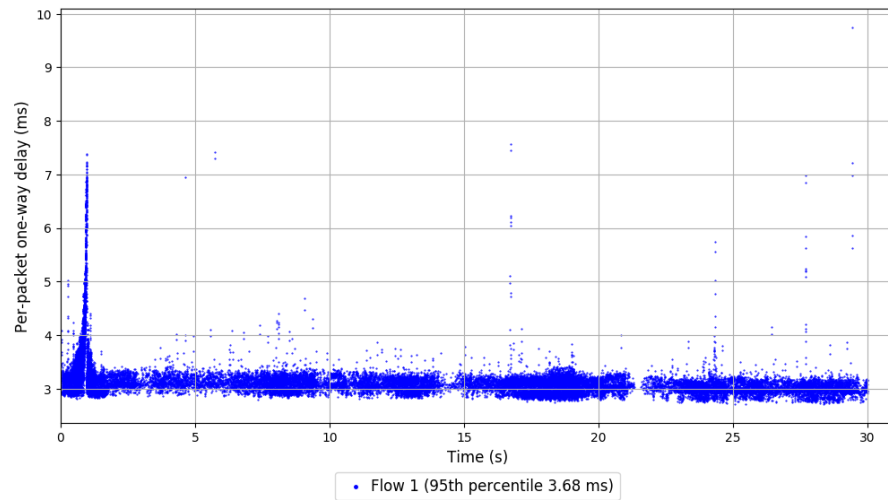
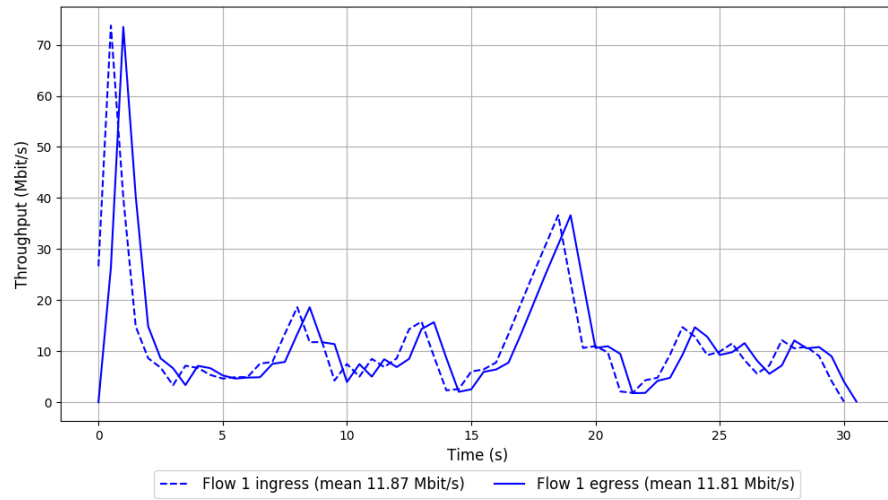


Run 3: Statistics of TCP Cubic

Start at: 2019-03-18 20:13:50  
End at: 2019-03-18 20:14:20  
Local clock offset: -7.8 ms  
Remote clock offset: -8.882 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.81 Mbit/s  
95th percentile per-packet one-way delay: 3.678 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 11.81 Mbit/s  
95th percentile per-packet one-way delay: 3.678 ms  
Loss rate: 0.55%

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

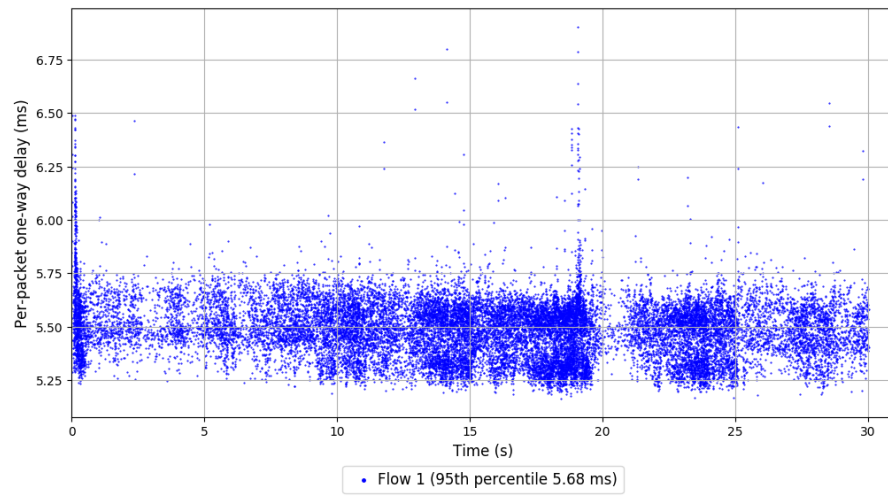
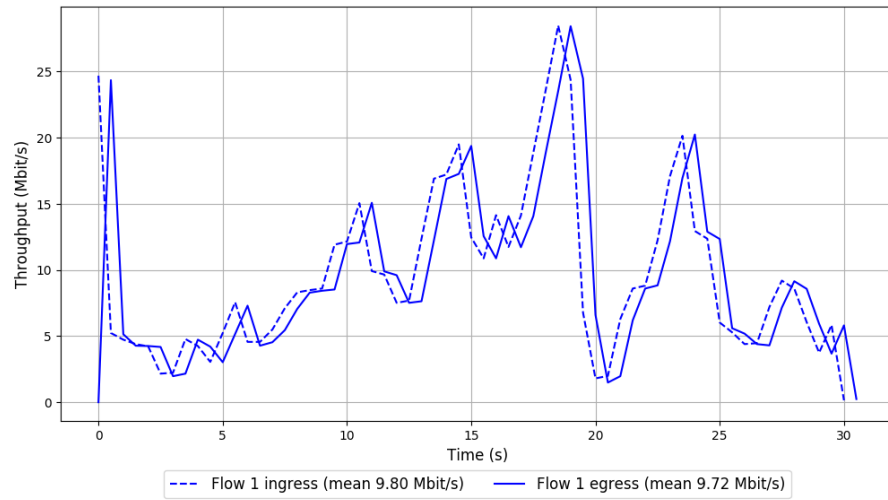


Run 4: Statistics of TCP Cubic

Start at: 2019-03-18 20:37:25  
End at: 2019-03-18 20:37:55  
Local clock offset: -3.719 ms  
Remote clock offset: -7.279 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.72 Mbit/s  
95th percentile per-packet one-way delay: 5.678 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 9.72 Mbit/s  
95th percentile per-packet one-way delay: 5.678 ms  
Loss rate: 0.76%

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

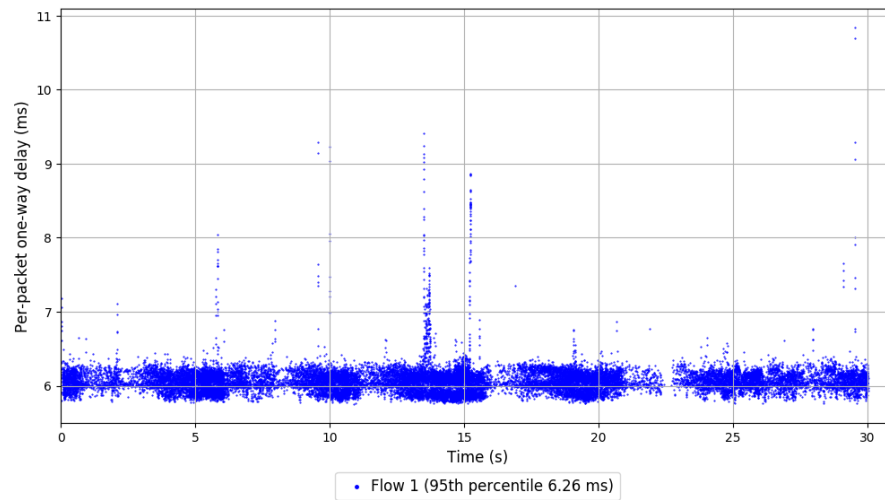
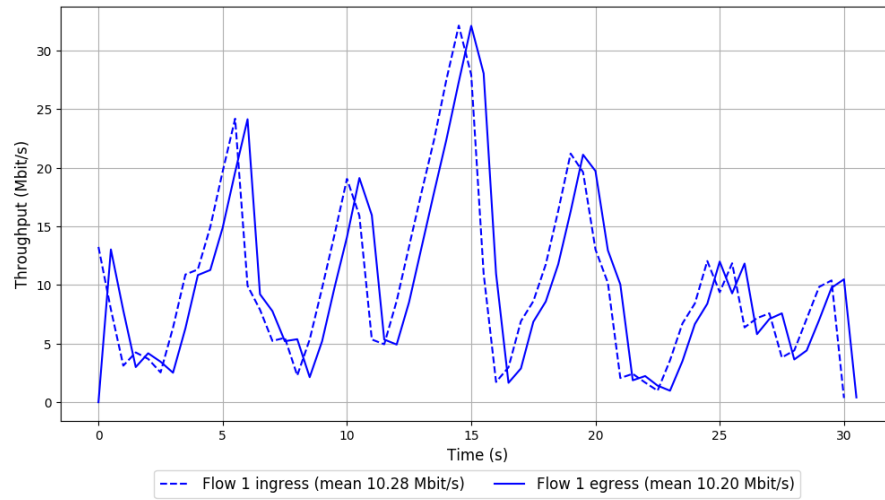


Run 5: Statistics of TCP Cubic

Start at: 2019-03-18 21:00:51  
End at: 2019-03-18 21:01:21  
Local clock offset: -1.243 ms  
Remote clock offset: -6.621 ms

# Below is generated by plot.py at 2019-03-18 21:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.20 Mbit/s  
95th percentile per-packet one-way delay: 6.257 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 10.20 Mbit/s  
95th percentile per-packet one-way delay: 6.257 ms  
Loss rate: 0.81%

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

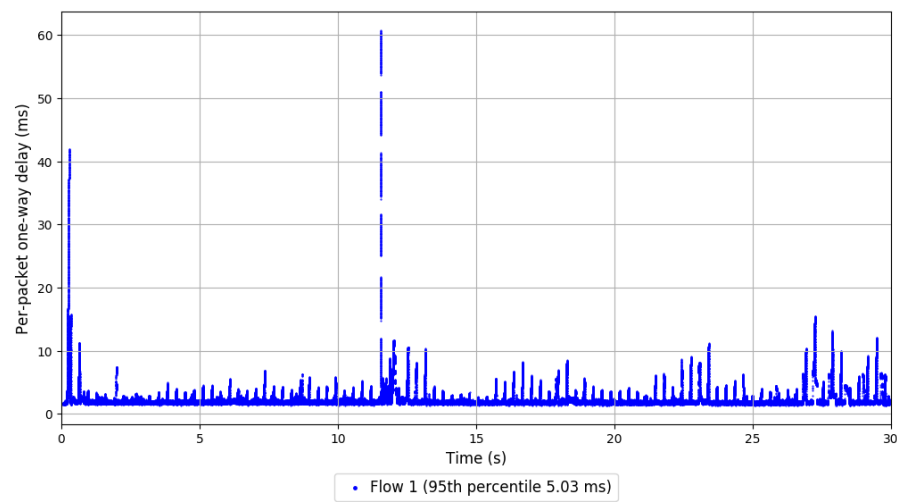
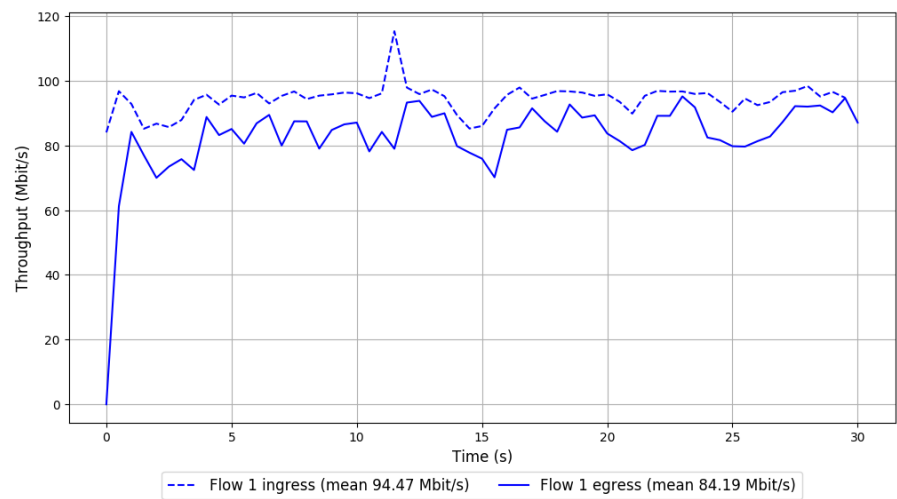


Run 1: Statistics of FillP

Start at: 2019-03-18 19:41:02  
End at: 2019-03-18 19:41:32  
Local clock offset: -10.196 ms  
Remote clock offset: -8.371 ms

# Below is generated by plot.py at 2019-03-18 21:24:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.19 Mbit/s  
95th percentile per-packet one-way delay: 5.025 ms  
Loss rate: 10.87%  
-- Flow 1:  
Average throughput: 84.19 Mbit/s  
95th percentile per-packet one-way delay: 5.025 ms  
Loss rate: 10.87%

Run 1: Report of FillP — Data Link



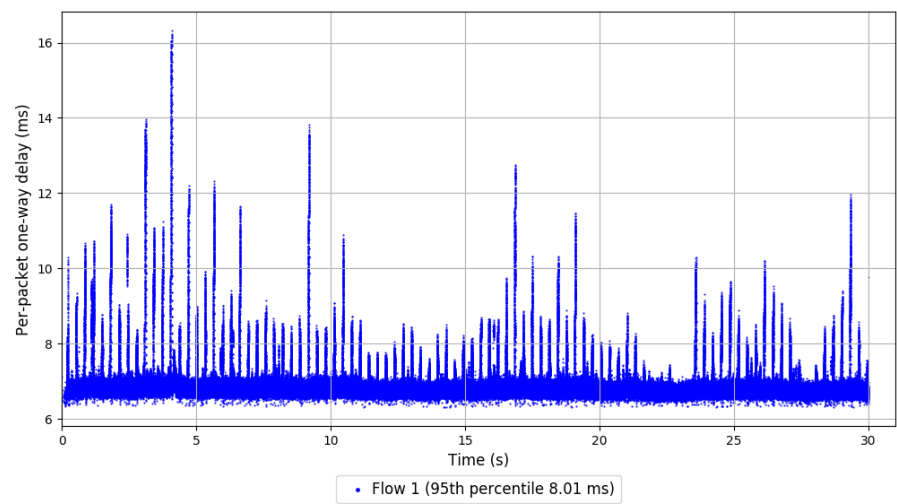
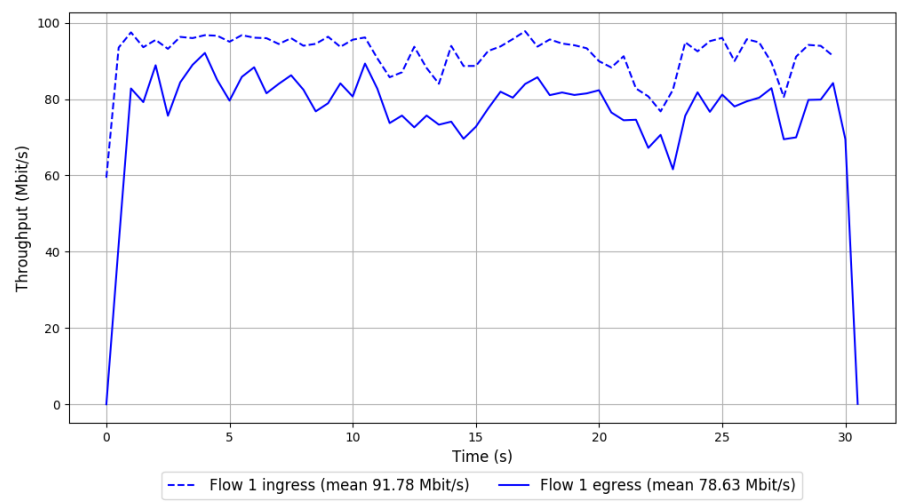


Run 2: Statistics of FillP

Start at: 2019-03-18 20:04:49  
End at: 2019-03-18 20:05:19  
Local clock offset: -10.66 ms  
Remote clock offset: -9.292 ms

# Below is generated by plot.py at 2019-03-18 21:24:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.63 Mbit/s  
95th percentile per-packet one-way delay: 8.011 ms  
Loss rate: 14.33%  
-- Flow 1:  
Average throughput: 78.63 Mbit/s  
95th percentile per-packet one-way delay: 8.011 ms  
Loss rate: 14.33%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-18 20:28:30

End at: 2019-03-18 20:29:00

Local clock offset: -6.045 ms

Remote clock offset: -9.44 ms

# Below is generated by plot.py at 2019-03-18 21:24:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 7.165 ms

Loss rate: 10.26%

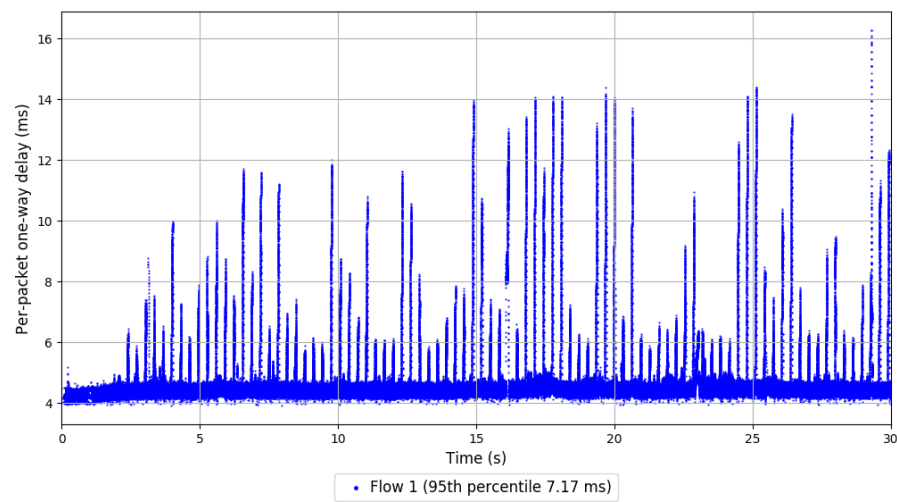
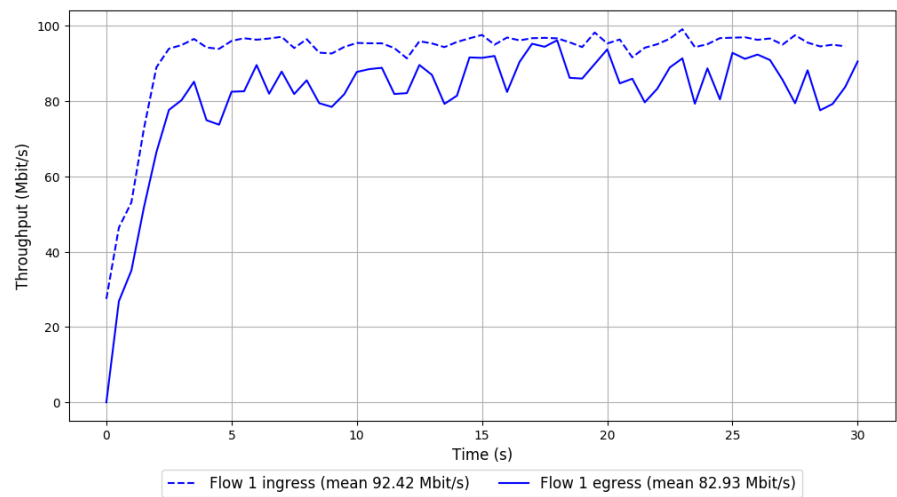
-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 7.165 ms

Loss rate: 10.26%

Run 3: Report of FillP — Data Link

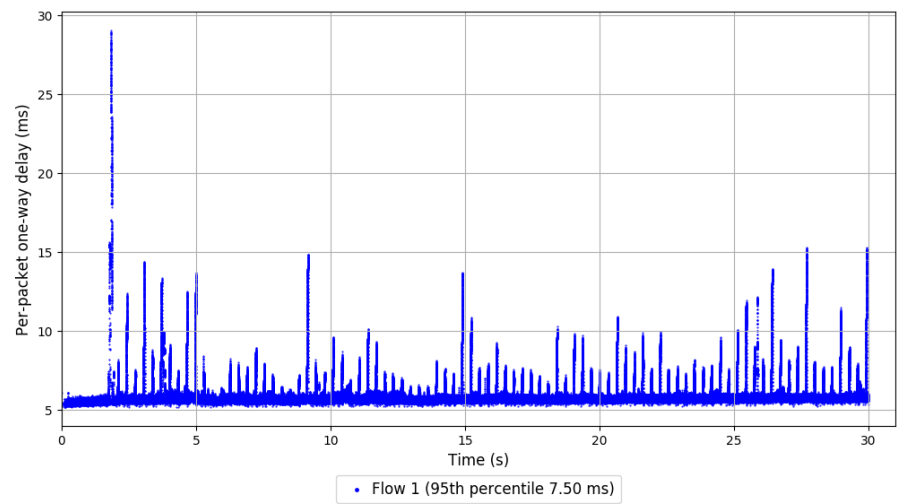
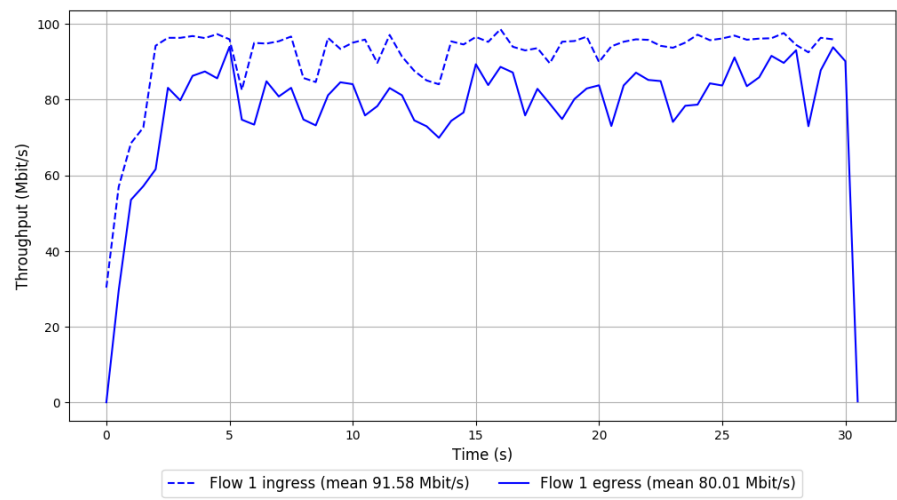


Run 4: Statistics of FillP

Start at: 2019-03-18 20:51:58  
End at: 2019-03-18 20:52:29  
Local clock offset: -2.176 ms  
Remote clock offset: -6.961 ms

# Below is generated by plot.py at 2019-03-18 21:24:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.01 Mbit/s  
95th percentile per-packet one-way delay: 7.502 ms  
Loss rate: 12.63%  
-- Flow 1:  
Average throughput: 80.01 Mbit/s  
95th percentile per-packet one-way delay: 7.502 ms  
Loss rate: 12.63%

Run 4: Report of FillP — Data Link

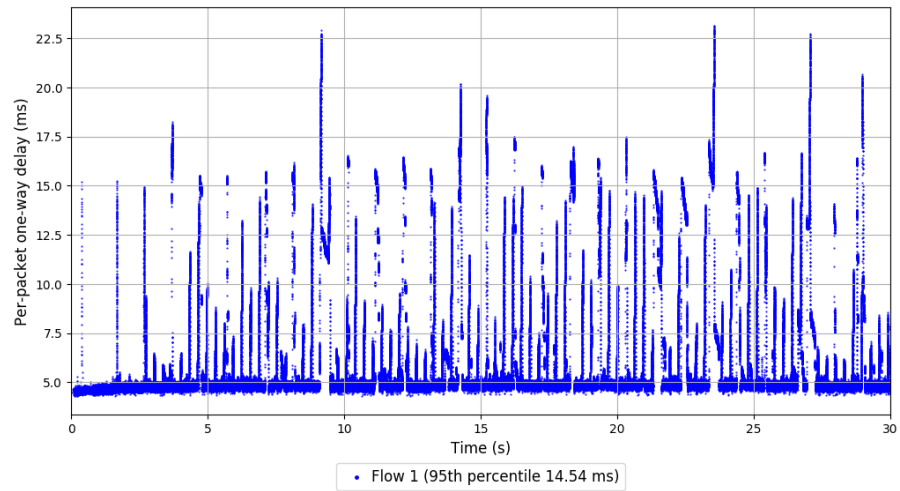
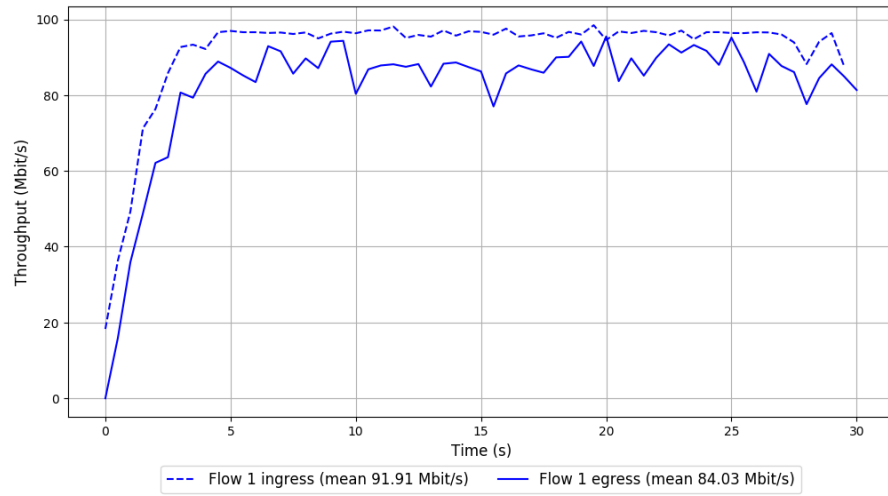


Run 5: Statistics of FillP

Start at: 2019-03-18 21:15:26  
End at: 2019-03-18 21:15:56  
Local clock offset: -0.688 ms  
Remote clock offset: -6.335 ms

# Below is generated by plot.py at 2019-03-18 21:24:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.03 Mbit/s  
95th percentile per-packet one-way delay: 14.541 ms  
Loss rate: 8.57%  
-- Flow 1:  
Average throughput: 84.03 Mbit/s  
95th percentile per-packet one-way delay: 14.541 ms  
Loss rate: 8.57%

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



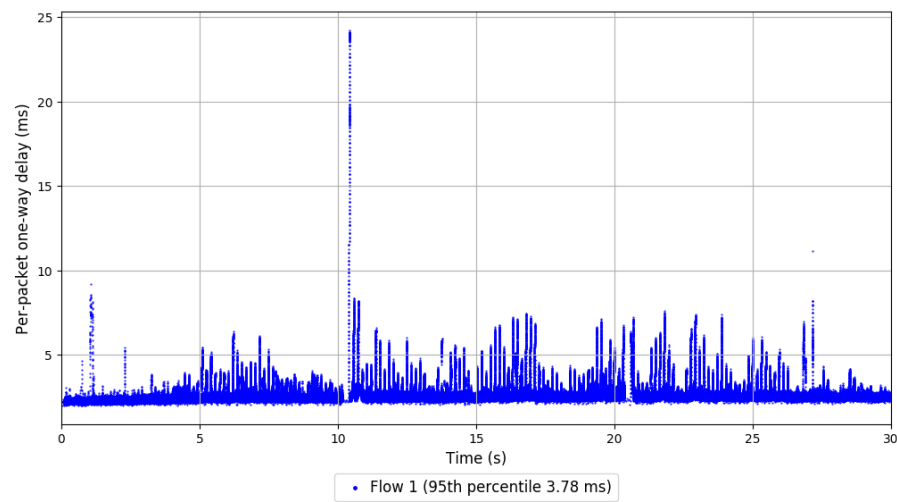
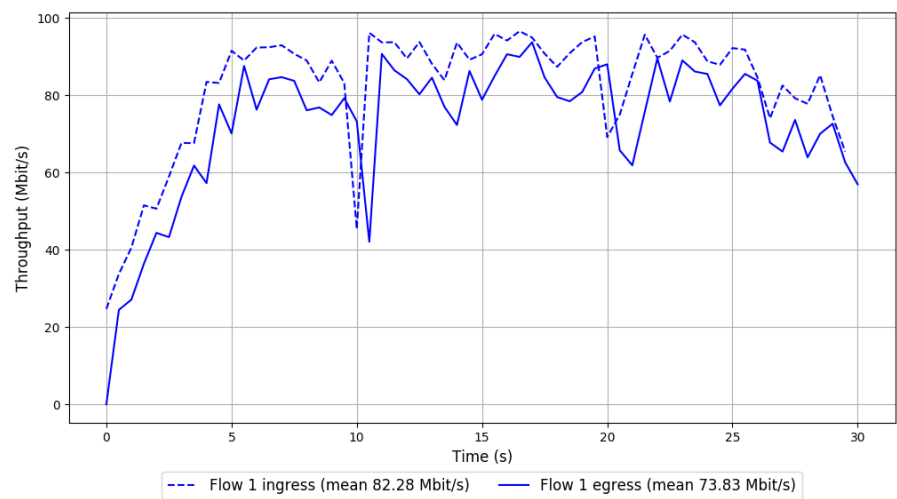


Run 1: Statistics of FillP-Sheep

Start at: 2019-03-18 19:29:33  
End at: 2019-03-18 19:30:03  
Local clock offset: -10.713 ms  
Remote clock offset: -8.66 ms

# Below is generated by plot.py at 2019-03-18 21:24:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.83 Mbit/s  
95th percentile per-packet one-way delay: 3.783 ms  
Loss rate: 10.27%  
-- Flow 1:  
Average throughput: 73.83 Mbit/s  
95th percentile per-packet one-way delay: 3.783 ms  
Loss rate: 10.27%

Run 1: Report of FillP-Sheep — Data Link

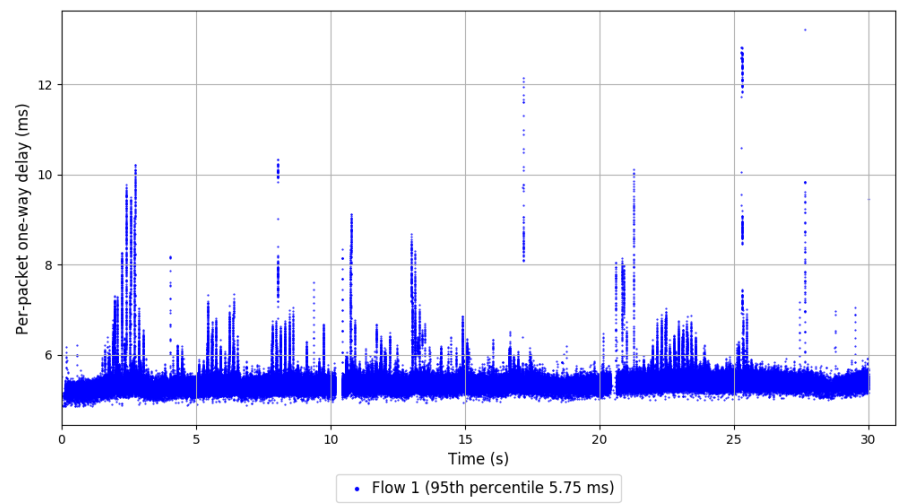
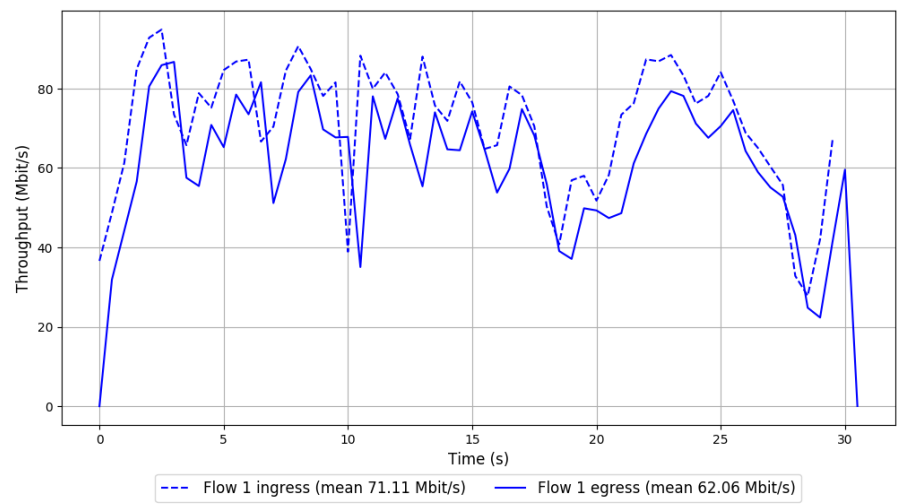


Run 2: Statistics of FillP-Sheep

Start at: 2019-03-18 19:53:27  
End at: 2019-03-18 19:53:57  
Local clock offset: -9.044 ms  
Remote clock offset: -8.054 ms

# Below is generated by plot.py at 2019-03-18 21:24:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.06 Mbit/s  
95th percentile per-packet one-way delay: 5.745 ms  
Loss rate: 12.72%  
-- Flow 1:  
Average throughput: 62.06 Mbit/s  
95th percentile per-packet one-way delay: 5.745 ms  
Loss rate: 12.72%

Run 2: Report of FillP-Sheep — Data Link

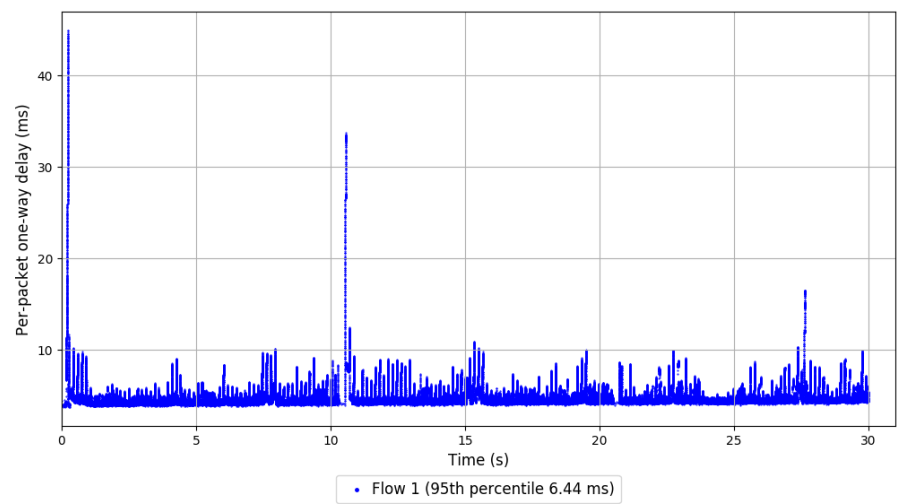
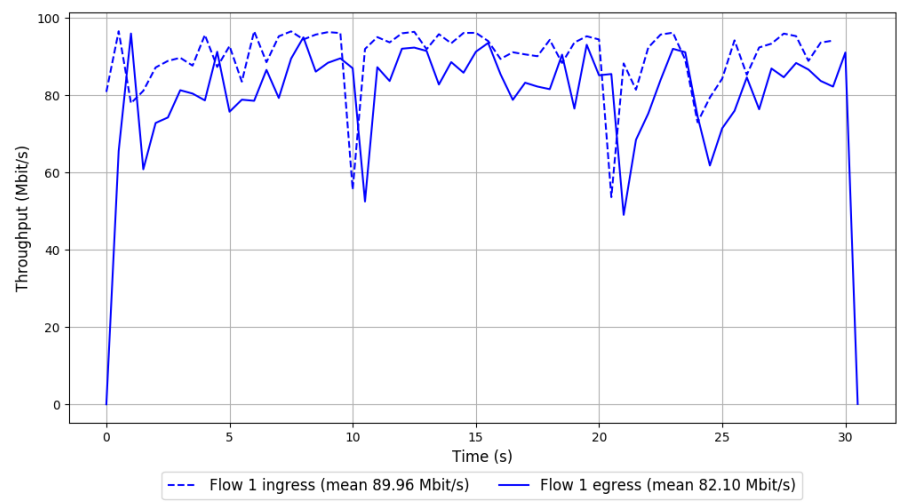


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-18 20:17:11  
End at: 2019-03-18 20:17:41  
Local clock offset: -9.124 ms  
Remote clock offset: -9.565 ms

# Below is generated by plot.py at 2019-03-18 21:24:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.10 Mbit/s  
95th percentile per-packet one-way delay: 6.441 ms  
Loss rate: 8.73%  
-- Flow 1:  
Average throughput: 82.10 Mbit/s  
95th percentile per-packet one-way delay: 6.441 ms  
Loss rate: 8.73%

Run 3: Report of FillP-Sheep — Data Link

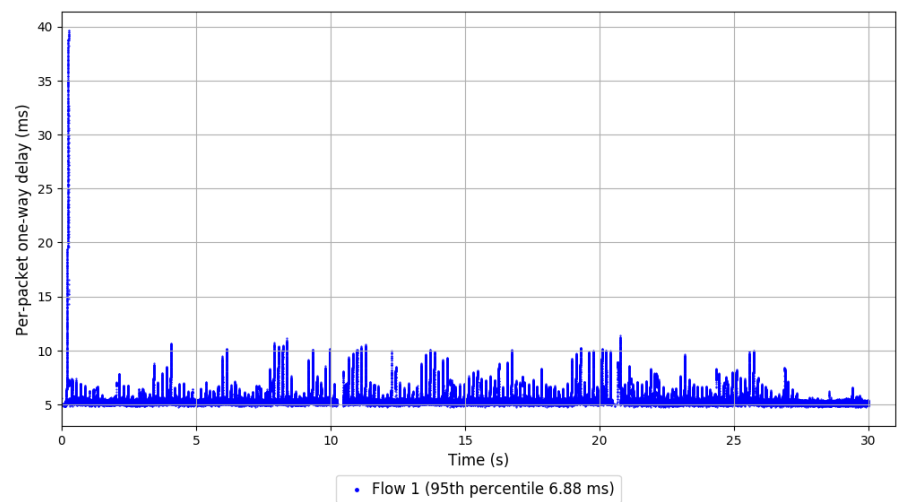
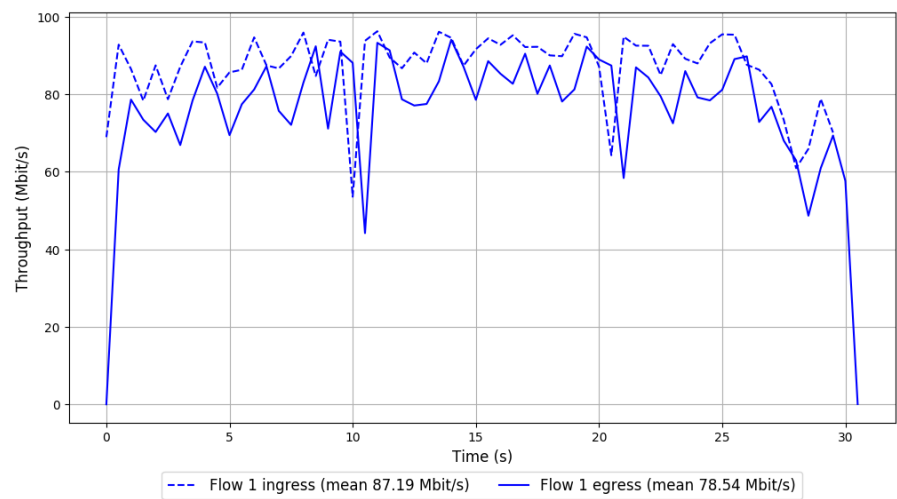


Run 4: Statistics of FillP-Sheep

Start at: 2019-03-18 20:40:46  
End at: 2019-03-18 20:41:16  
Local clock offset: -3.496 ms  
Remote clock offset: -6.939 ms

# Below is generated by plot.py at 2019-03-18 21:25:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.54 Mbit/s  
95th percentile per-packet one-way delay: 6.877 ms  
Loss rate: 9.93%  
-- Flow 1:  
Average throughput: 78.54 Mbit/s  
95th percentile per-packet one-way delay: 6.877 ms  
Loss rate: 9.93%

Run 4: Report of FillP-Sheep — Data Link



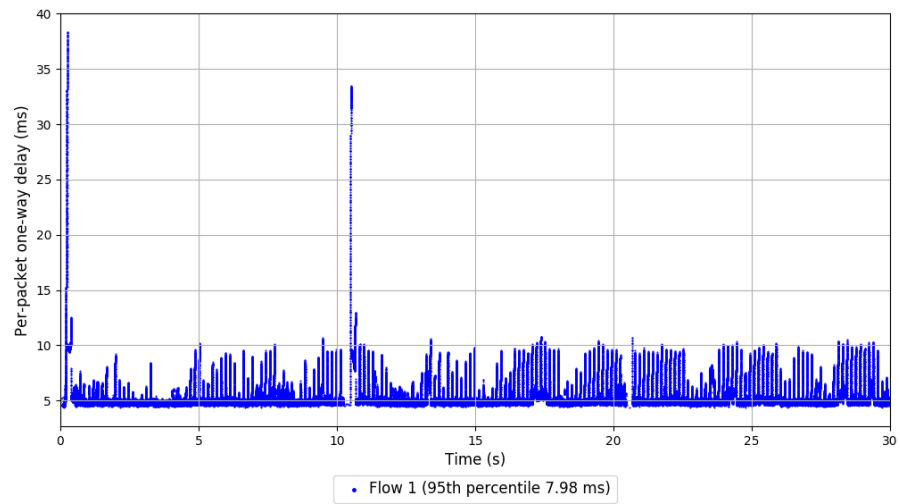
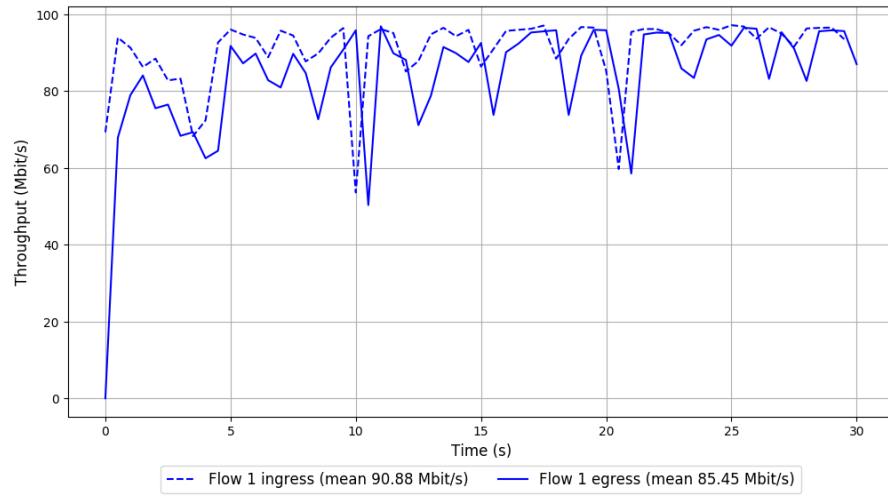


Run 5: Statistics of FillP-Sheep

Start at: 2019-03-18 21:04:12  
End at: 2019-03-18 21:04:42  
Local clock offset: -1.584 ms  
Remote clock offset: -8.053 ms

# Below is generated by plot.py at 2019-03-18 21:25:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.45 Mbit/s  
95th percentile per-packet one-way delay: 7.979 ms  
Loss rate: 5.98%  
-- Flow 1:  
Average throughput: 85.45 Mbit/s  
95th percentile per-packet one-way delay: 7.979 ms  
Loss rate: 5.98%

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

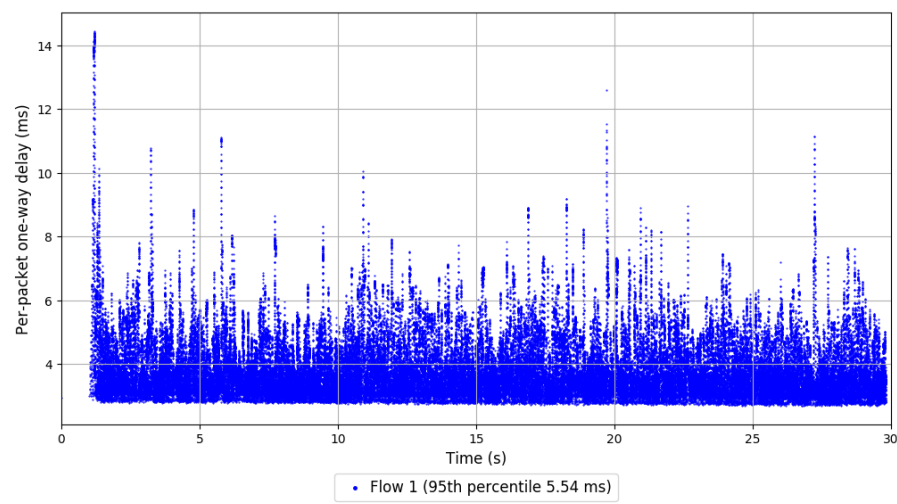
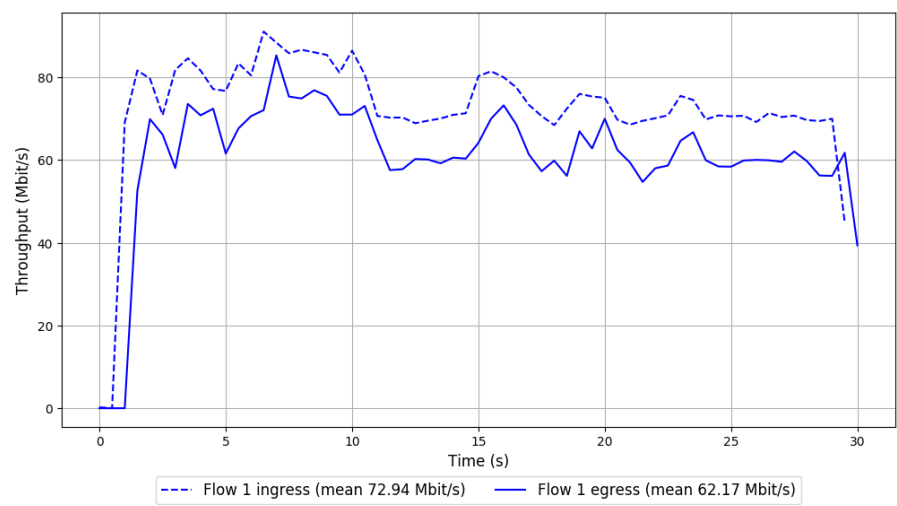


Run 1: Statistics of Indigo

Start at: 2019-03-18 19:39:49  
End at: 2019-03-18 19:40:19  
Local clock offset: -10.925 ms  
Remote clock offset: -8.138 ms

# Below is generated by plot.py at 2019-03-18 21:25:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.17 Mbit/s  
95th percentile per-packet one-way delay: 5.538 ms  
Loss rate: 14.76%  
-- Flow 1:  
Average throughput: 62.17 Mbit/s  
95th percentile per-packet one-way delay: 5.538 ms  
Loss rate: 14.76%

Run 1: Report of Indigo — Data Link

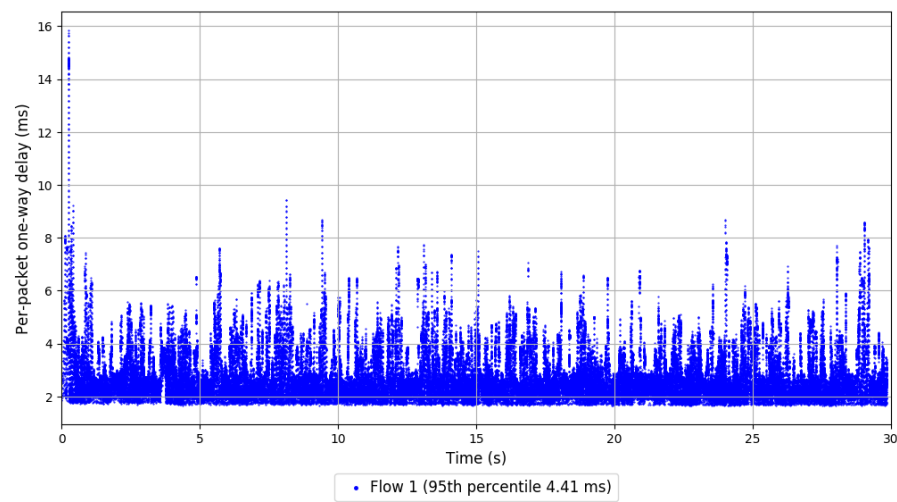
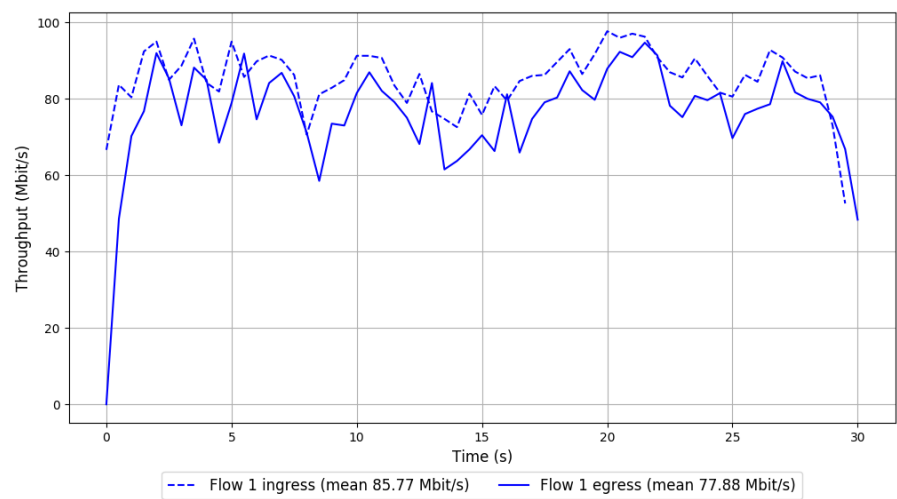


Run 2: Statistics of Indigo

Start at: 2019-03-18 20:03:37  
End at: 2019-03-18 20:04:07  
Local clock offset: -7.192 ms  
Remote clock offset: -10.772 ms

# Below is generated by plot.py at 2019-03-18 21:25:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.88 Mbit/s  
95th percentile per-packet one-way delay: 4.409 ms  
Loss rate: 9.19%  
-- Flow 1:  
Average throughput: 77.88 Mbit/s  
95th percentile per-packet one-way delay: 4.409 ms  
Loss rate: 9.19%

Run 2: Report of Indigo — Data Link

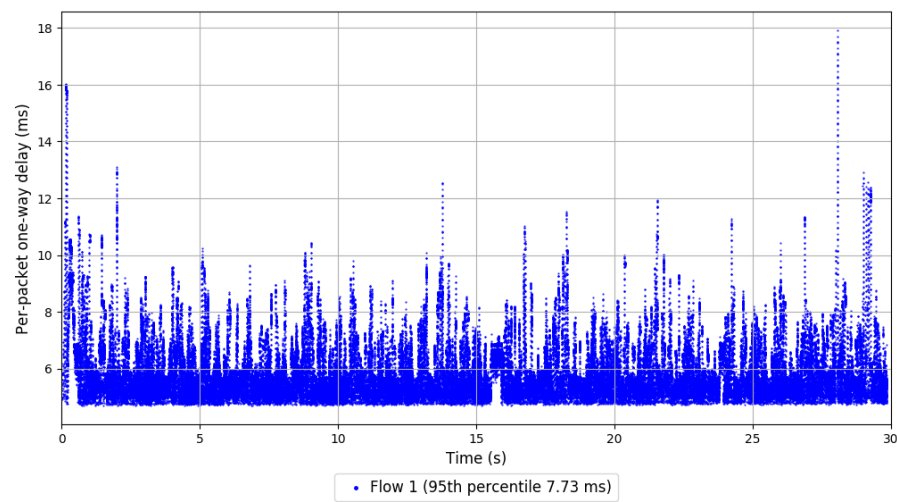
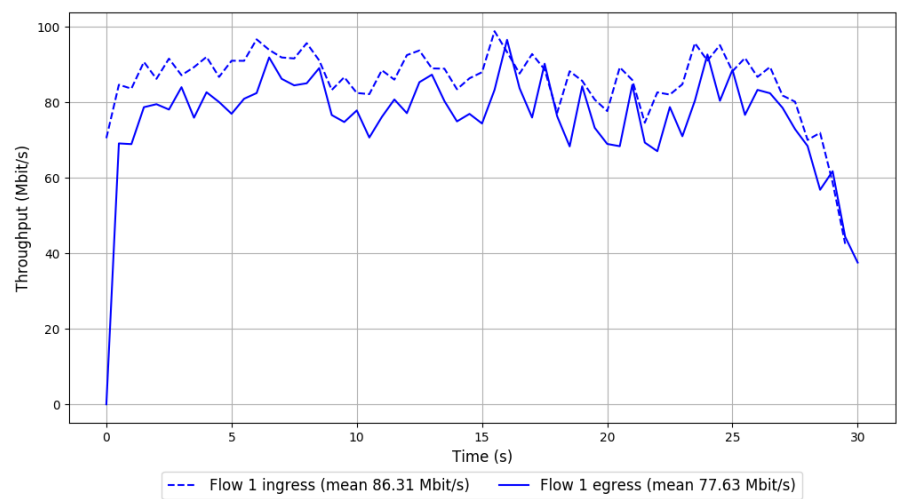


Run 3: Statistics of Indigo

Start at: 2019-03-18 20:27:19  
End at: 2019-03-18 20:27:49  
Local clock offset: -6.423 ms  
Remote clock offset: -9.133 ms

# Below is generated by plot.py at 2019-03-18 21:25:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.63 Mbit/s  
95th percentile per-packet one-way delay: 7.727 ms  
Loss rate: 10.05%  
-- Flow 1:  
Average throughput: 77.63 Mbit/s  
95th percentile per-packet one-way delay: 7.727 ms  
Loss rate: 10.05%

Run 3: Report of Indigo — Data Link



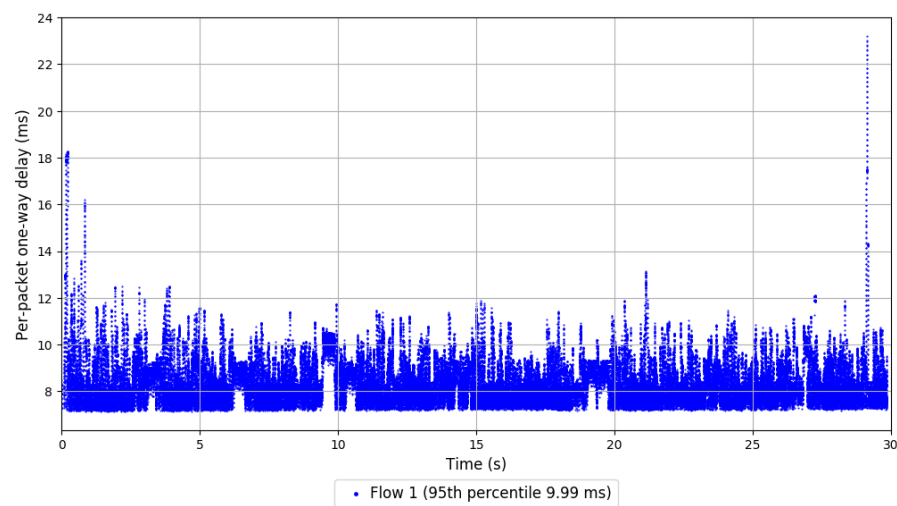
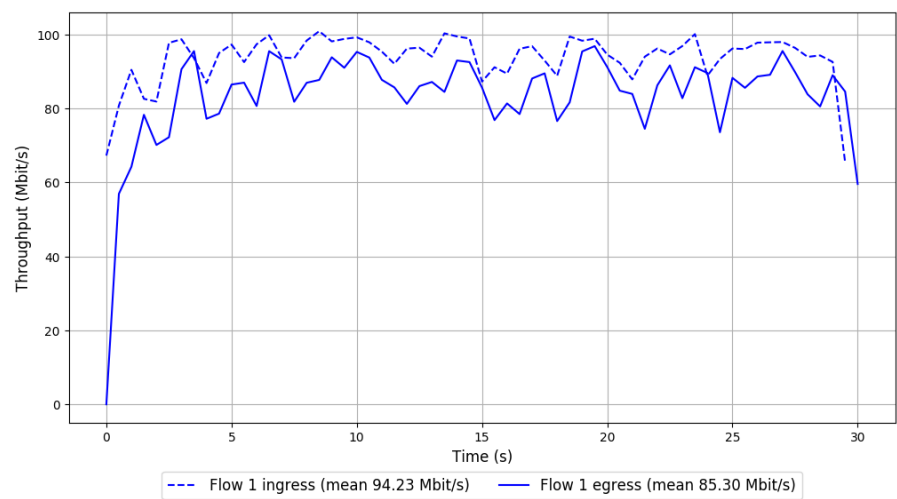


Run 4: Statistics of Indigo

Start at: 2019-03-18 20:50:49  
End at: 2019-03-18 20:51:19  
Local clock offset: -4.464 ms  
Remote clock offset: -7.225 ms

# Below is generated by plot.py at 2019-03-18 21:25:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.30 Mbit/s  
95th percentile per-packet one-way delay: 9.988 ms  
Loss rate: 9.48%  
-- Flow 1:  
Average throughput: 85.30 Mbit/s  
95th percentile per-packet one-way delay: 9.988 ms  
Loss rate: 9.48%

Run 4: Report of Indigo — Data Link

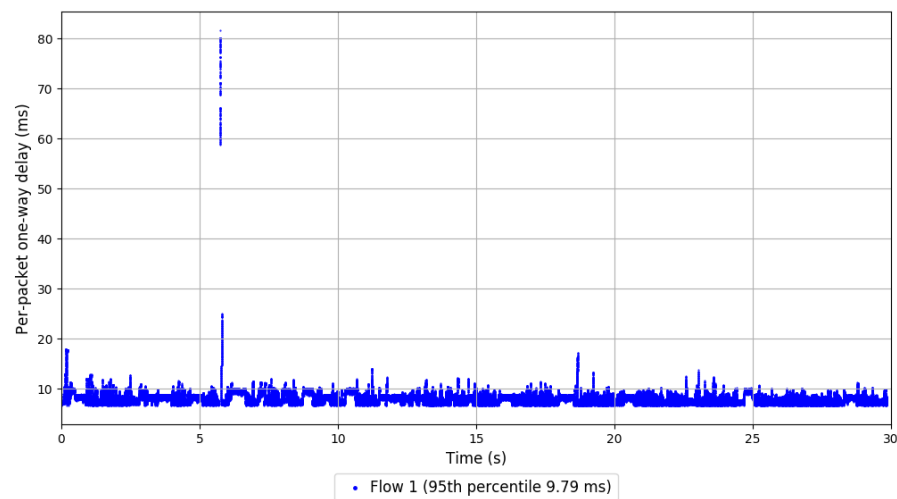
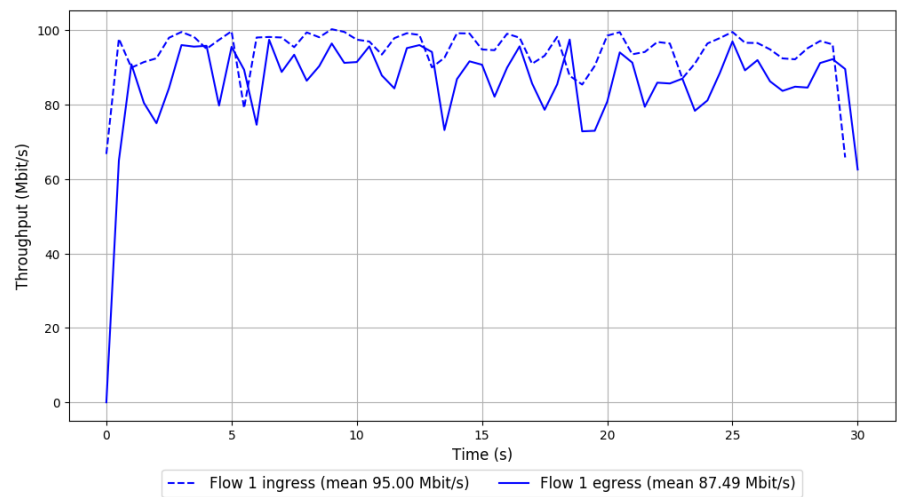


Run 5: Statistics of Indigo

Start at: 2019-03-18 21:14:17  
End at: 2019-03-18 21:14:47  
Local clock offset: -3.002 ms  
Remote clock offset: -6.586 ms

# Below is generated by plot.py at 2019-03-18 21:25:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.49 Mbit/s  
95th percentile per-packet one-way delay: 9.790 ms  
Loss rate: 7.90%  
-- Flow 1:  
Average throughput: 87.49 Mbit/s  
95th percentile per-packet one-way delay: 9.790 ms  
Loss rate: 7.90%

Run 5: Report of Indigo — Data Link

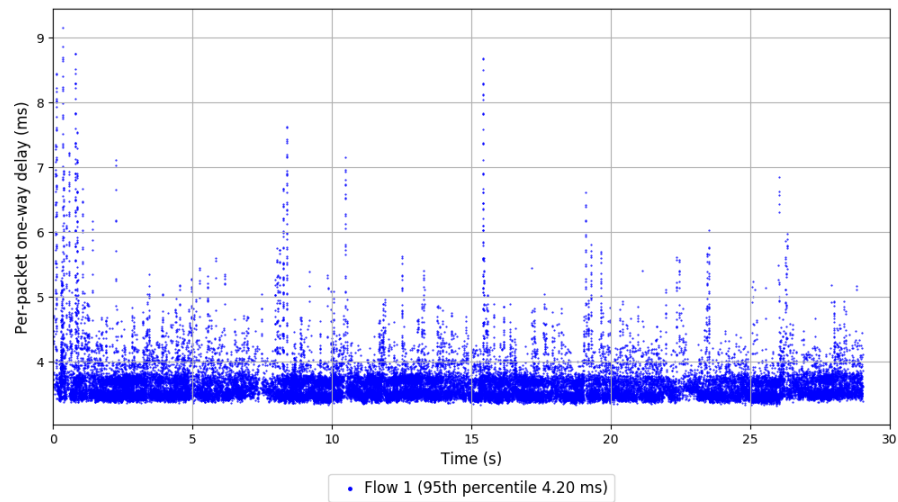
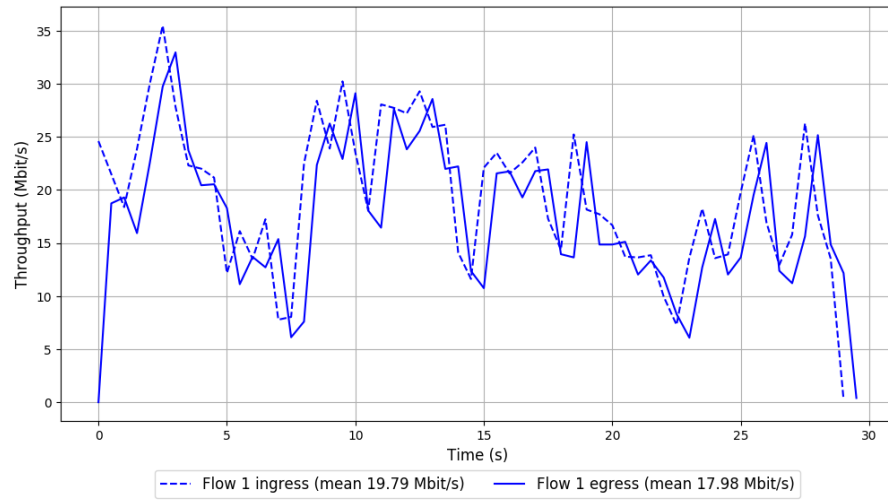


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-18 19:35:11  
End at: 2019-03-18 19:35:41  
Local clock offset: -11.014 ms  
Remote clock offset: -8.316 ms

# Below is generated by plot.py at 2019-03-18 21:25:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 17.98 Mbit/s  
95th percentile per-packet one-way delay: 4.197 ms  
Loss rate: 9.14%  
-- Flow 1:  
Average throughput: 17.98 Mbit/s  
95th percentile per-packet one-way delay: 4.197 ms  
Loss rate: 9.14%

### Run 1: Report of Indigo-MusesC3 — Data Link

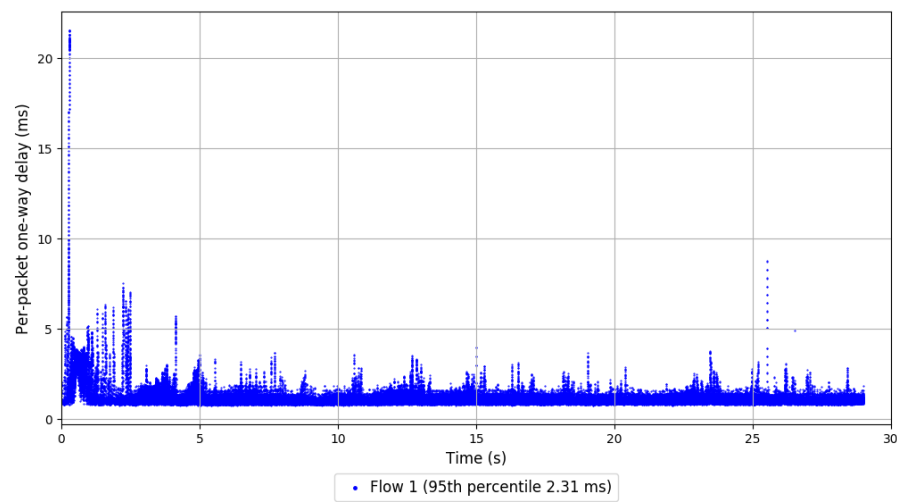
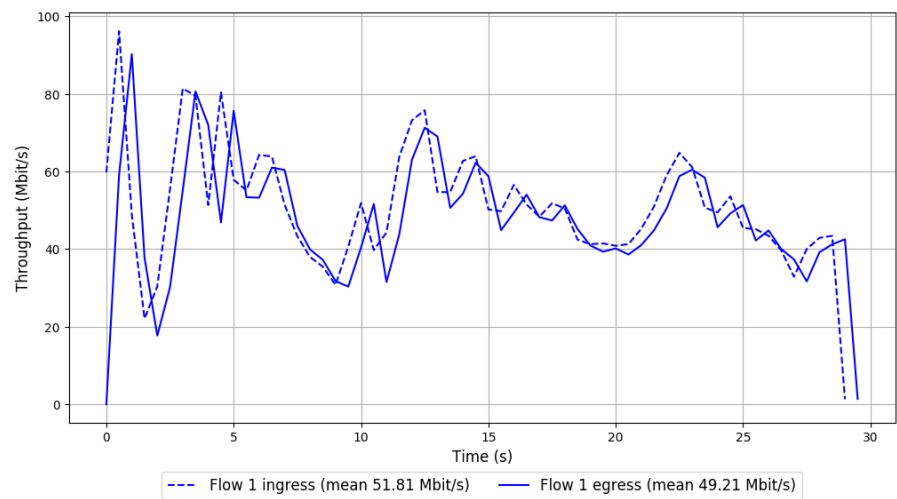


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-18 19:59:05  
End at: 2019-03-18 19:59:35  
Local clock offset: -5.014 ms  
Remote clock offset: -9.479 ms

# Below is generated by plot.py at 2019-03-18 21:25:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 49.21 Mbit/s  
95th percentile per-packet one-way delay: 2.308 ms  
Loss rate: 5.01%  
-- Flow 1:  
Average throughput: 49.21 Mbit/s  
95th percentile per-packet one-way delay: 2.308 ms  
Loss rate: 5.01%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-18 20:22:46

End at: 2019-03-18 20:23:16

Local clock offset: -6.787 ms

Remote clock offset: -9.21 ms

# Below is generated by plot.py at 2019-03-18 21:26:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 6.917 ms

Loss rate: 3.21%

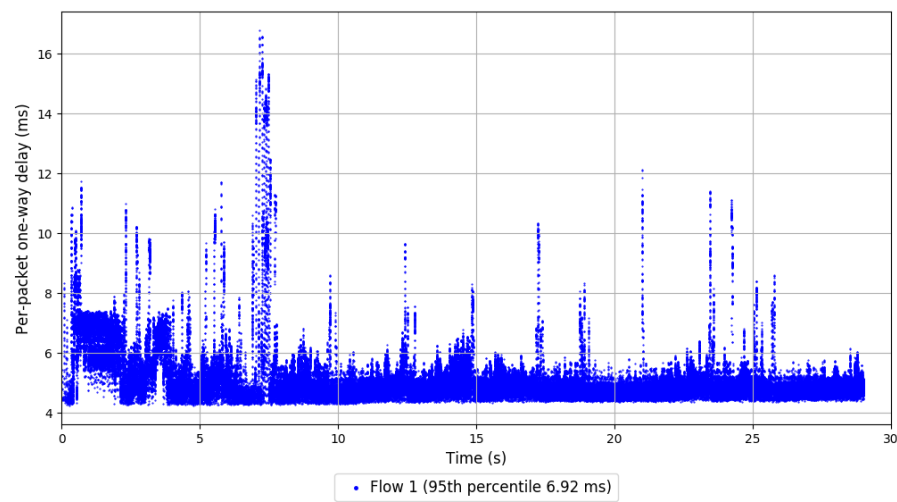
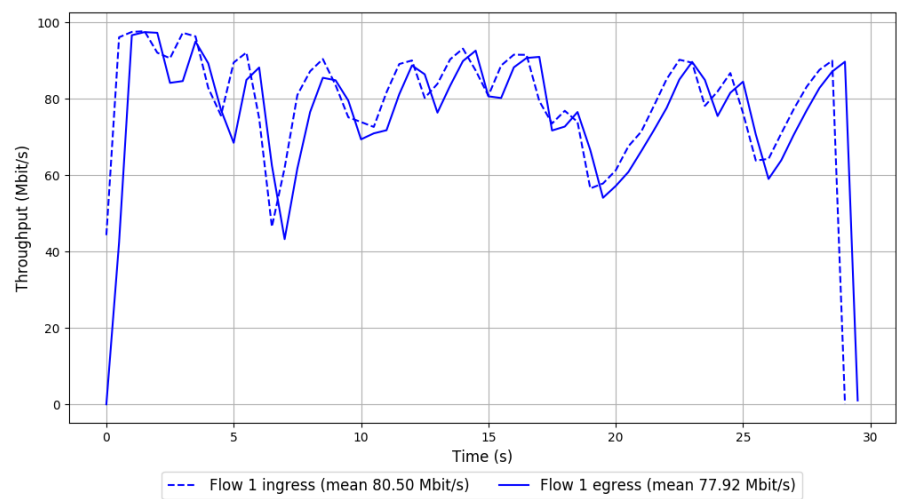
-- Flow 1:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 6.917 ms

Loss rate: 3.21%

Run 3: Report of Indigo-MusesC3 — Data Link

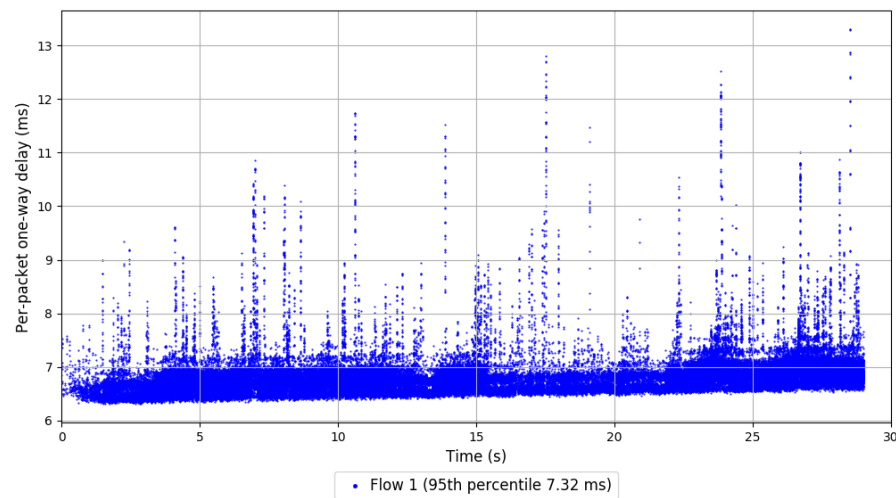
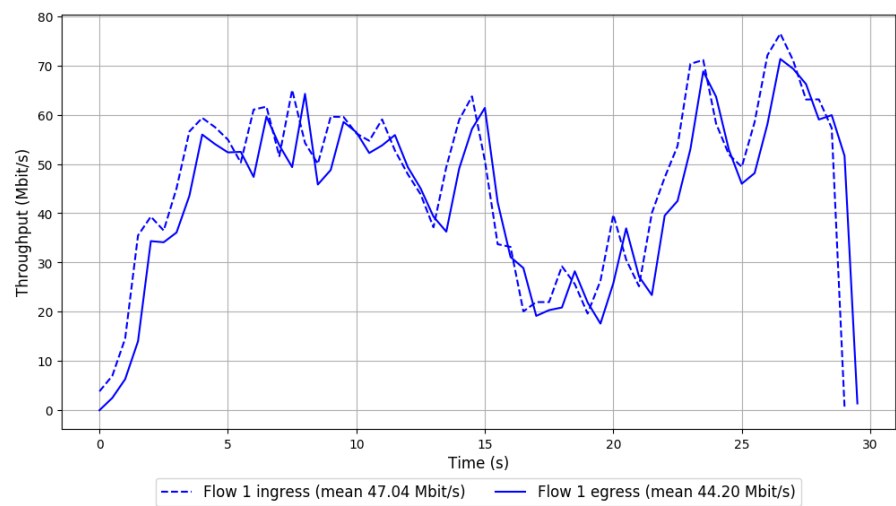


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-18 20:46:20  
End at: 2019-03-18 20:46:50  
Local clock offset: -5.159 ms  
Remote clock offset: -6.901 ms

# Below is generated by plot.py at 2019-03-18 21:26:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 44.20 Mbit/s  
95th percentile per-packet one-way delay: 7.318 ms  
Loss rate: 6.04%  
-- Flow 1:  
Average throughput: 44.20 Mbit/s  
95th percentile per-packet one-way delay: 7.318 ms  
Loss rate: 6.04%

Run 4: Report of Indigo-MusesC3 — Data Link

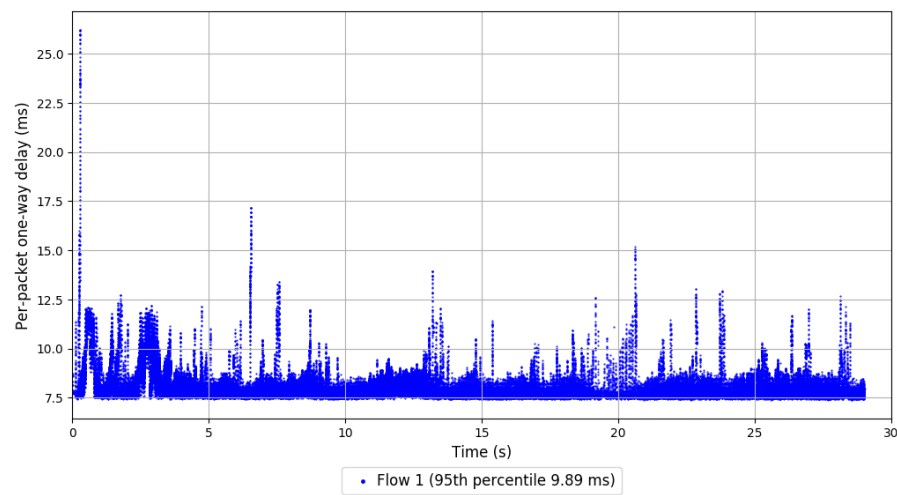
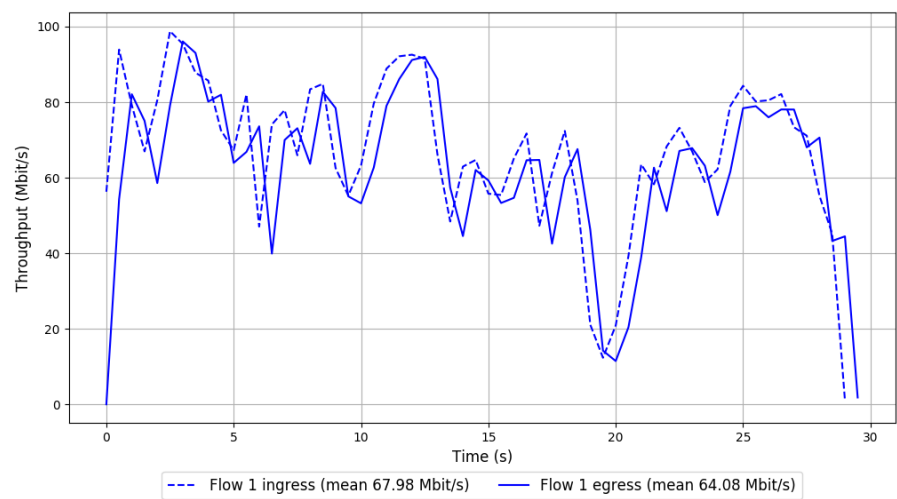


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-18 21:09:46  
End at: 2019-03-18 21:10:16  
Local clock offset: -2.923 ms  
Remote clock offset: -6.181 ms

# Below is generated by plot.py at 2019-03-18 21:26:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 64.08 Mbit/s  
95th percentile per-packet one-way delay: 9.887 ms  
Loss rate: 5.73%  
-- Flow 1:  
Average throughput: 64.08 Mbit/s  
95th percentile per-packet one-way delay: 9.887 ms  
Loss rate: 5.73%

Run 5: Report of Indigo-MusesC3 — Data Link

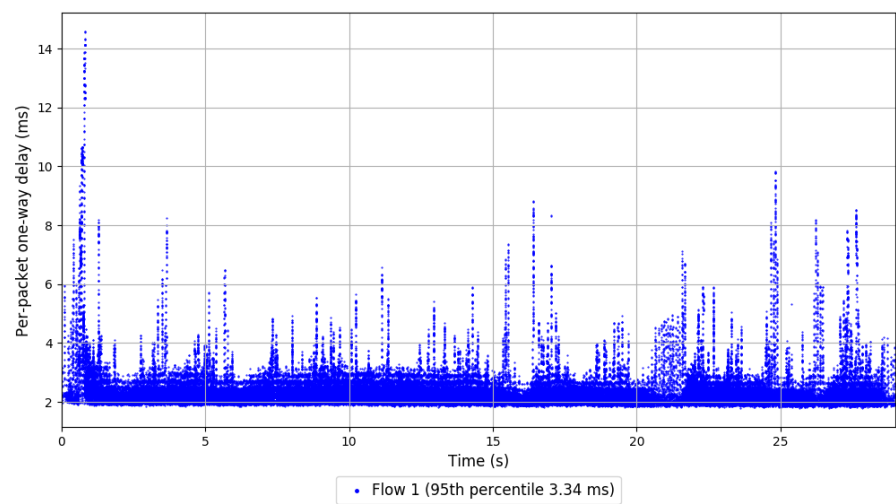
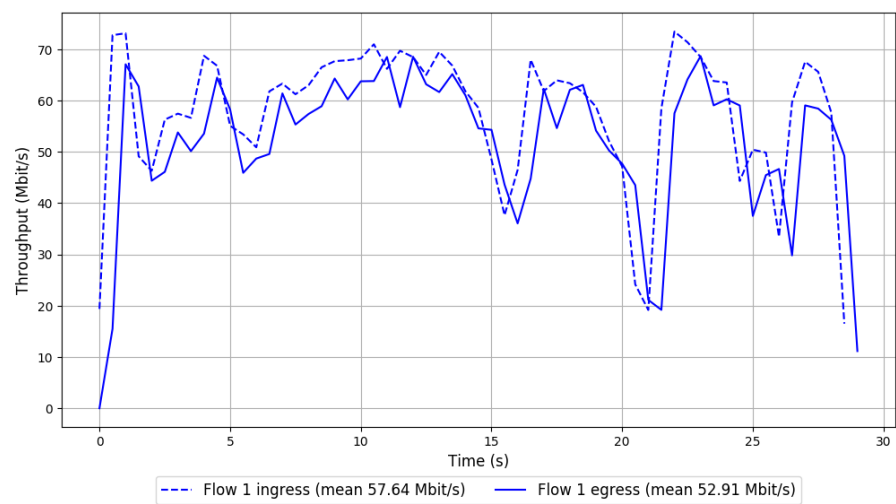


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-18 19:37:25  
End at: 2019-03-18 19:37:55  
Local clock offset: -10.479 ms  
Remote clock offset: -9.027 ms

# Below is generated by plot.py at 2019-03-18 21:26:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 52.91 Mbit/s  
95th percentile per-packet one-way delay: 3.342 ms  
Loss rate: 8.20%  
-- Flow 1:  
Average throughput: 52.91 Mbit/s  
95th percentile per-packet one-way delay: 3.342 ms  
Loss rate: 8.20%

Run 1: Report of Indigo-MusesC5 — Data Link



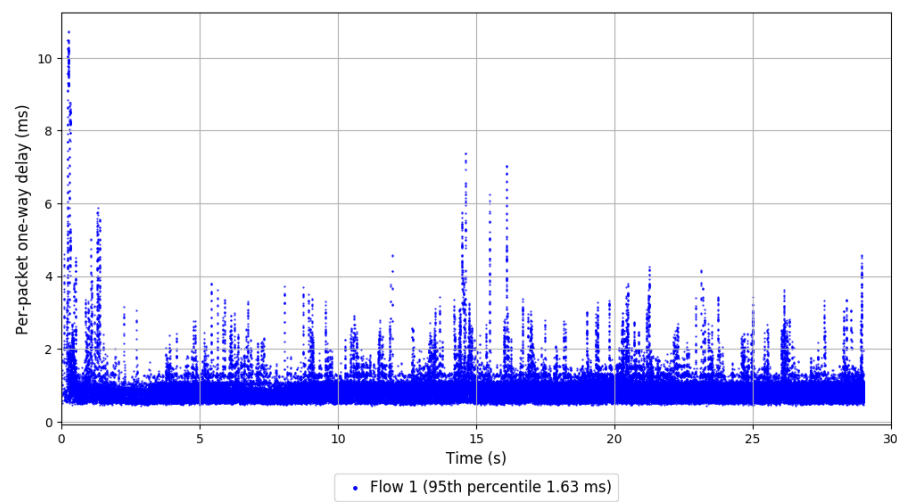
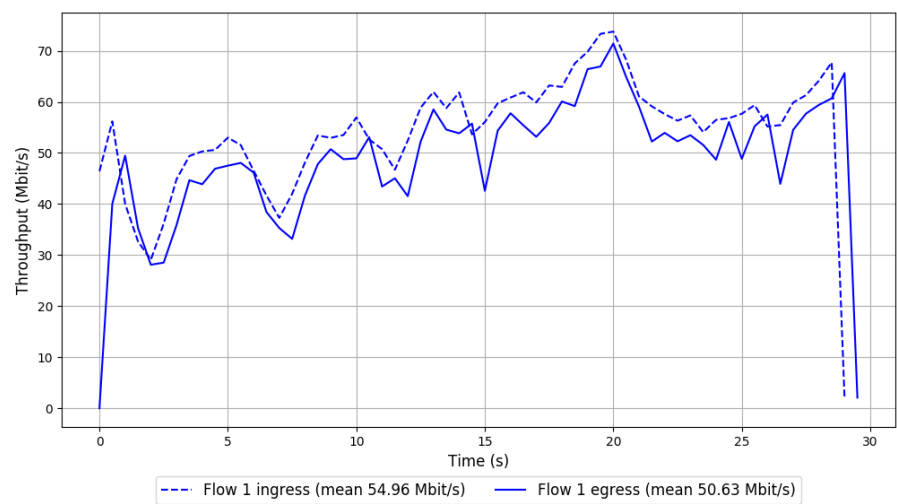


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-18 20:01:20  
End at: 2019-03-18 20:01:50  
Local clock offset: -5.129 ms  
Remote clock offset: -9.968 ms

# Below is generated by plot.py at 2019-03-18 21:26:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.63 Mbit/s  
95th percentile per-packet one-way delay: 1.631 ms  
Loss rate: 7.87%  
-- Flow 1:  
Average throughput: 50.63 Mbit/s  
95th percentile per-packet one-way delay: 1.631 ms  
Loss rate: 7.87%

Run 2: Report of Indigo-MusesC5 — Data Link

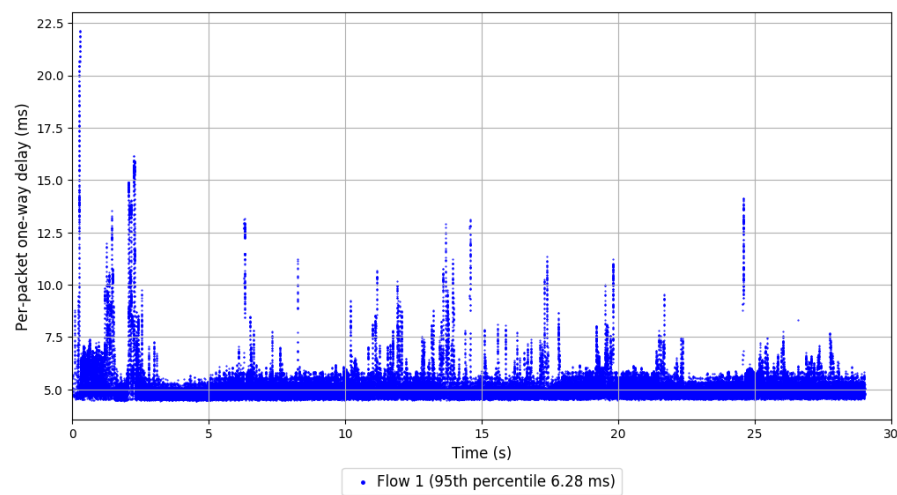
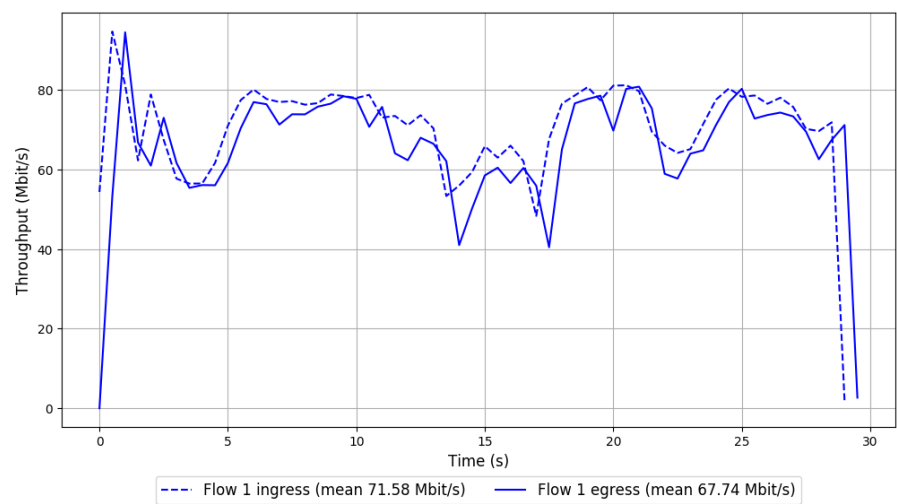


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-18 20:25:02  
End at: 2019-03-18 20:25:32  
Local clock offset: -6.452 ms  
Remote clock offset: -9.112 ms

# Below is generated by plot.py at 2019-03-18 21:26:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 67.74 Mbit/s  
95th percentile per-packet one-way delay: 6.284 ms  
Loss rate: 5.37%  
-- Flow 1:  
Average throughput: 67.74 Mbit/s  
95th percentile per-packet one-way delay: 6.284 ms  
Loss rate: 5.37%

Run 3: Report of Indigo-MusesC5 — Data Link

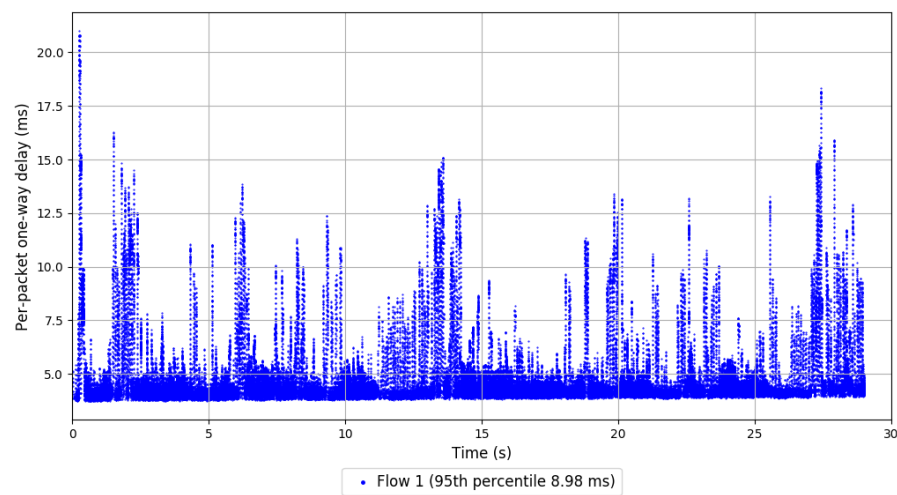
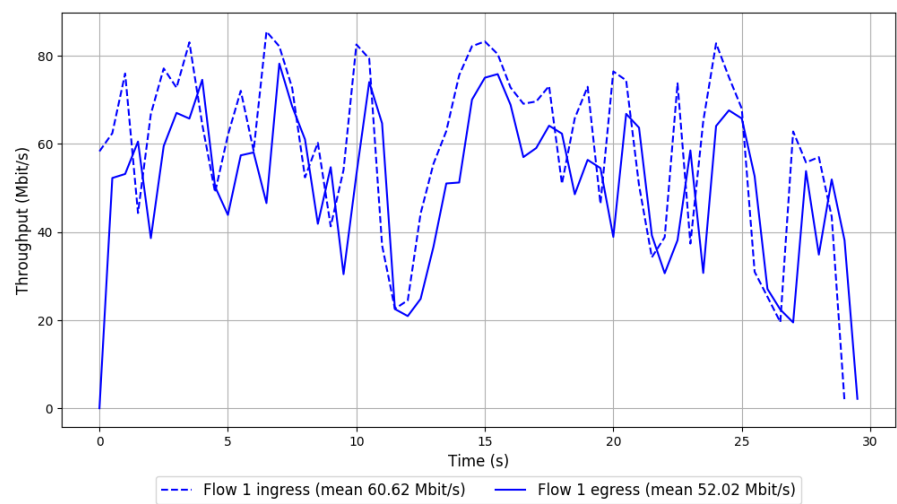


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-18 20:48:33  
End at: 2019-03-18 20:49:03  
Local clock offset: -3.544 ms  
Remote clock offset: -8.876 ms

# Below is generated by plot.py at 2019-03-18 21:26:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 52.02 Mbit/s  
95th percentile per-packet one-way delay: 8.976 ms  
Loss rate: 14.19%  
-- Flow 1:  
Average throughput: 52.02 Mbit/s  
95th percentile per-packet one-way delay: 8.976 ms  
Loss rate: 14.19%

Run 4: Report of Indigo-MusesC5 — Data Link

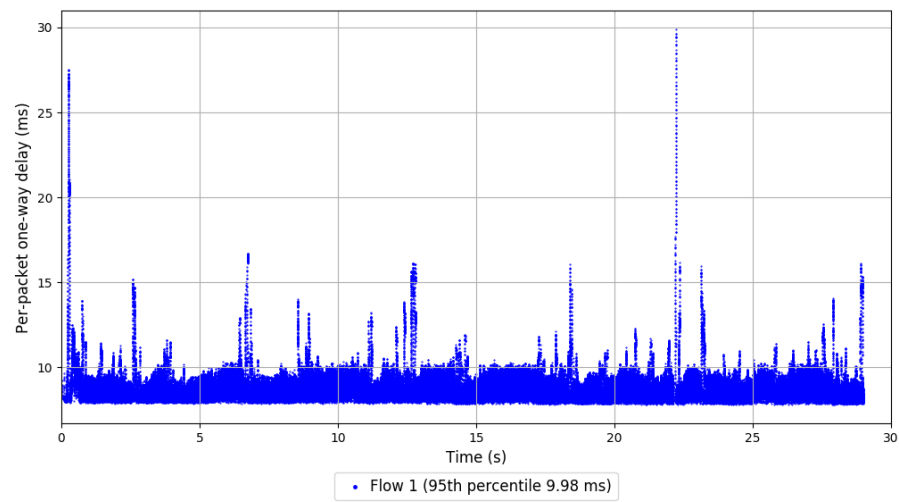
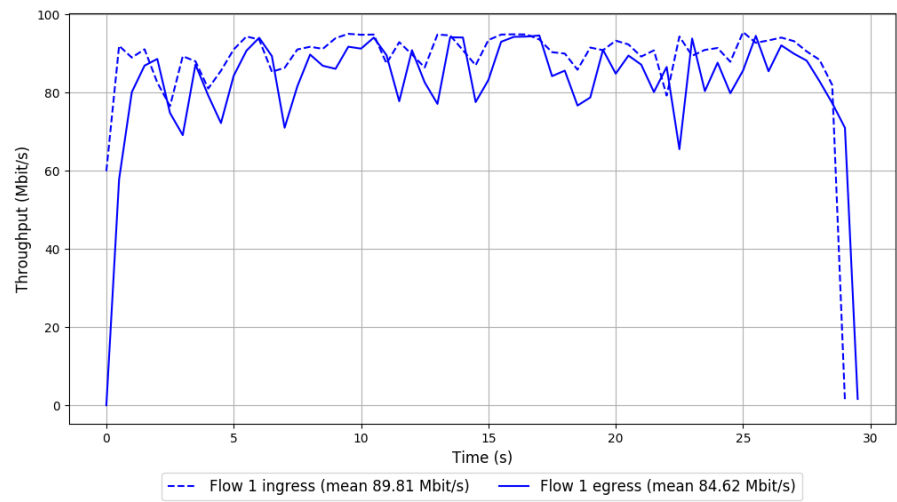


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-18 21:11:59  
End at: 2019-03-18 21:12:29  
Local clock offset: -3.468 ms  
Remote clock offset: -6.131 ms

# Below is generated by plot.py at 2019-03-18 21:26:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.62 Mbit/s  
95th percentile per-packet one-way delay: 9.979 ms  
Loss rate: 5.79%  
-- Flow 1:  
Average throughput: 84.62 Mbit/s  
95th percentile per-packet one-way delay: 9.979 ms  
Loss rate: 5.79%

Run 5: Report of Indigo-MusesC5 — Data Link



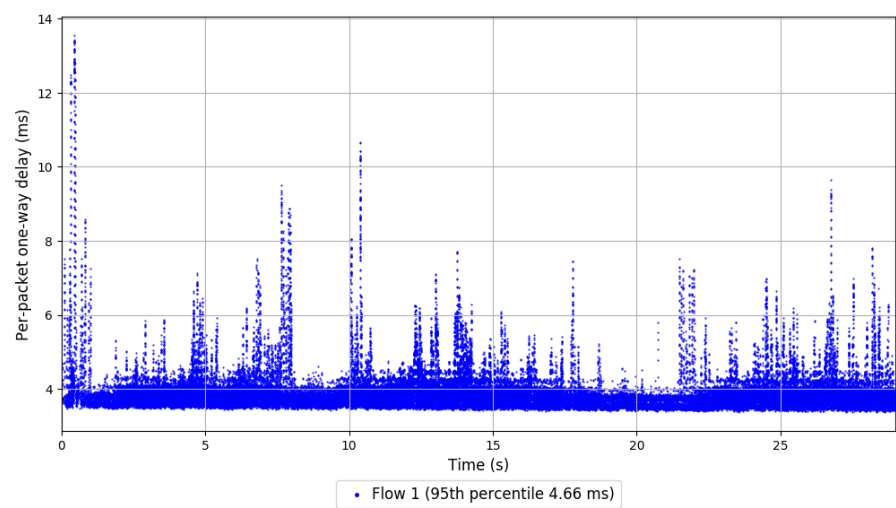
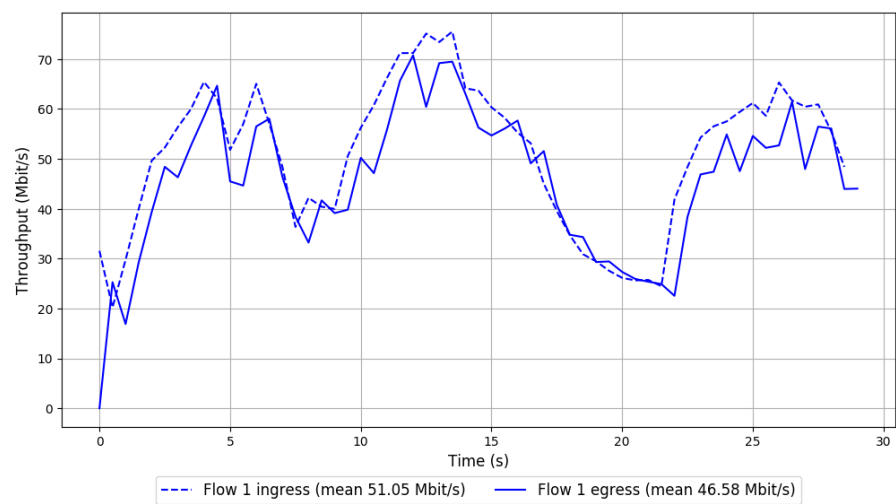


Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-18 19:38:40  
End at: 2019-03-18 19:39:10  
Local clock offset: -11.738 ms  
Remote clock offset: -8.499 ms

# Below is generated by plot.py at 2019-03-18 21:26:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.58 Mbit/s  
95th percentile per-packet one-way delay: 4.656 ms  
Loss rate: 8.75%  
-- Flow 1:  
Average throughput: 46.58 Mbit/s  
95th percentile per-packet one-way delay: 4.656 ms  
Loss rate: 8.75%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-18 20:02:30

End at: 2019-03-18 20:03:00

Local clock offset: -6.862 ms

Remote clock offset: -9.371 ms

# Below is generated by plot.py at 2019-03-18 21:26:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 3.891 ms

Loss rate: 6.32%

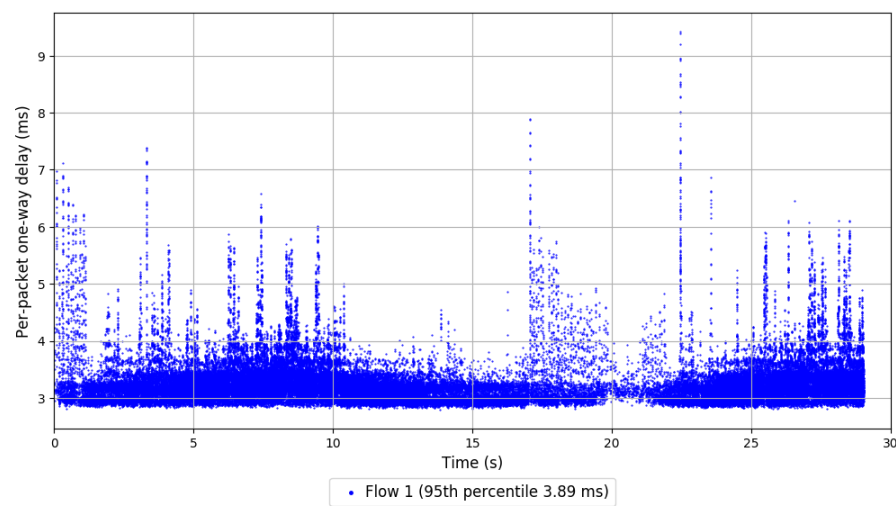
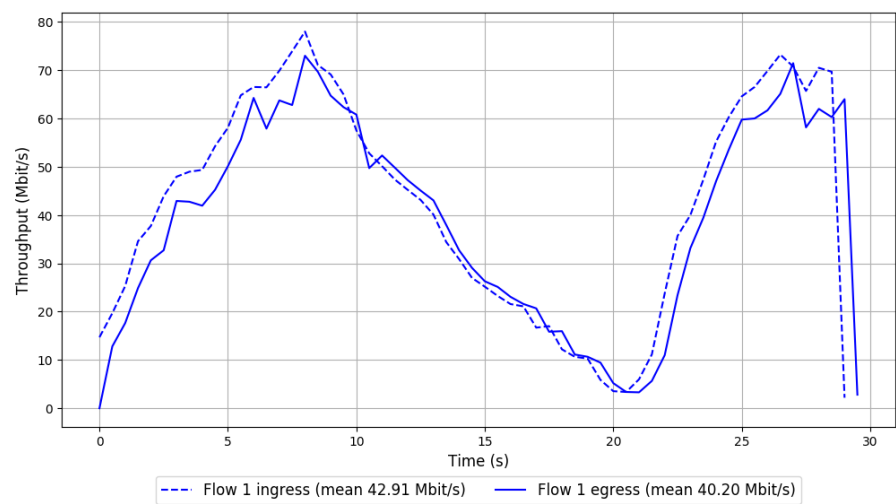
-- Flow 1:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 3.891 ms

Loss rate: 6.32%

Run 2: Report of Indigo-MusesD — Data Link

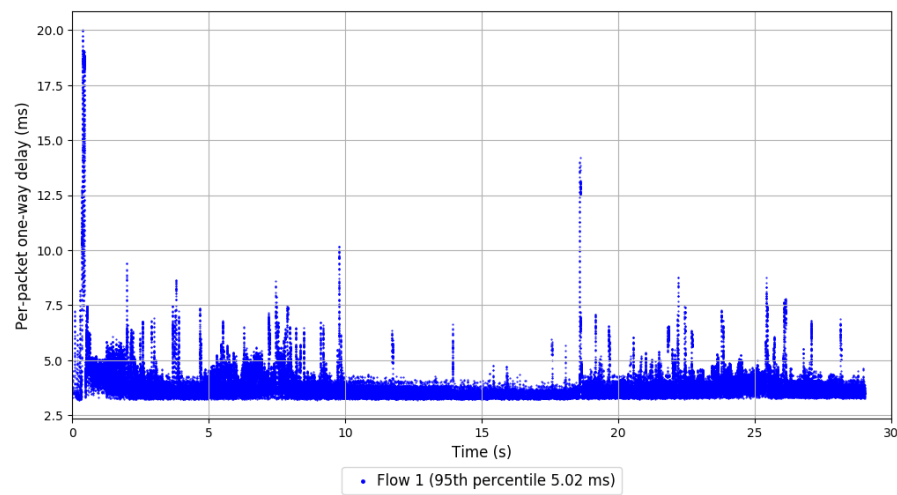
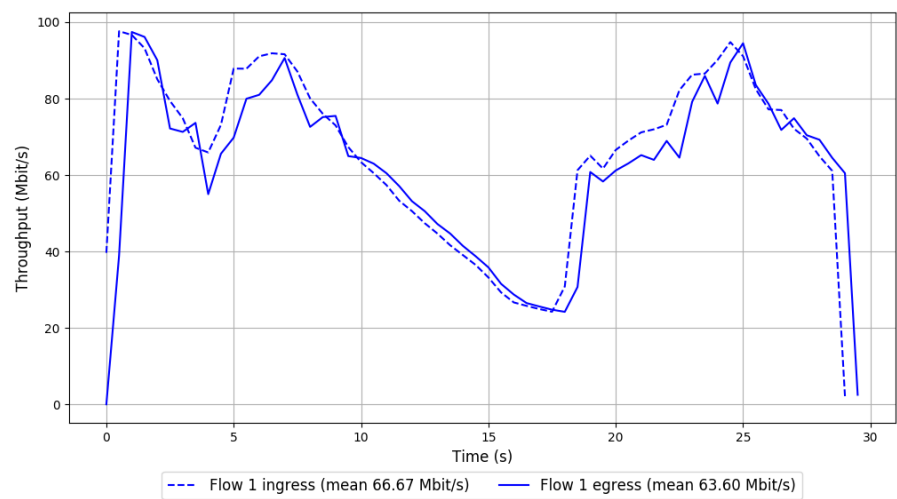


Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-18 20:26:11  
End at: 2019-03-18 20:26:41  
Local clock offset: -5.83 ms  
Remote clock offset: -9.895 ms

# Below is generated by plot.py at 2019-03-18 21:27:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.60 Mbit/s  
95th percentile per-packet one-way delay: 5.023 ms  
Loss rate: 4.61%  
-- Flow 1:  
Average throughput: 63.60 Mbit/s  
95th percentile per-packet one-way delay: 5.023 ms  
Loss rate: 4.61%

Run 3: Report of Indigo-MusesD — Data Link

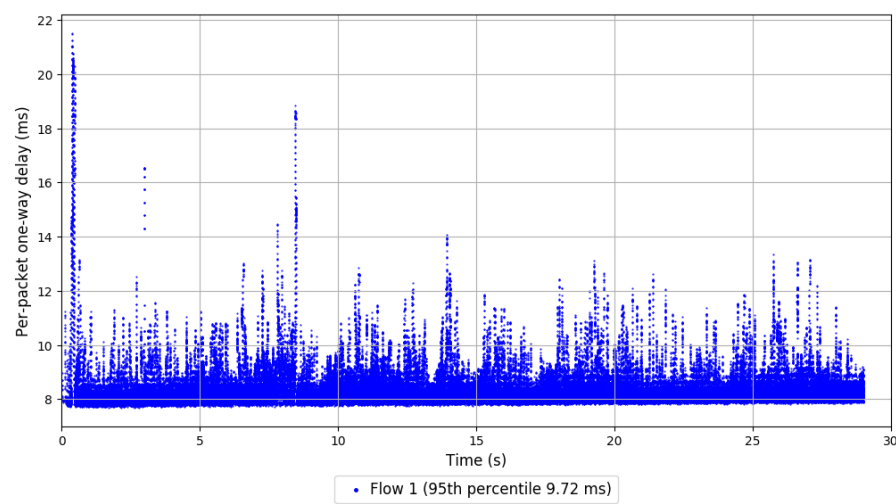
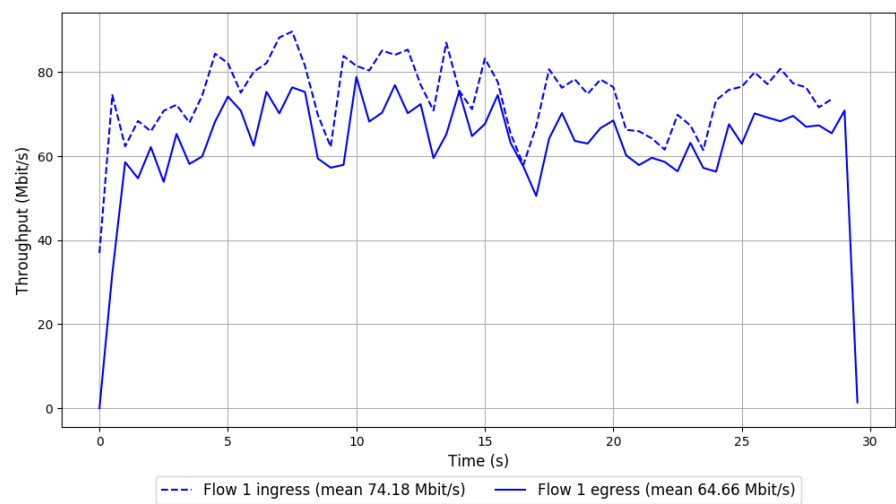


Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-18 20:49:41  
End at: 2019-03-18 20:50:11  
Local clock offset: -5.256 ms  
Remote clock offset: -7.081 ms

# Below is generated by plot.py at 2019-03-18 21:27:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 64.66 Mbit/s  
95th percentile per-packet one-way delay: 9.725 ms  
Loss rate: 12.84%  
-- Flow 1:  
Average throughput: 64.66 Mbit/s  
95th percentile per-packet one-way delay: 9.725 ms  
Loss rate: 12.84%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-18 21:13:08

End at: 2019-03-18 21:13:38

Local clock offset: -3.066 ms

Remote clock offset: -5.994 ms

# Below is generated by plot.py at 2019-03-18 21:27:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.82 Mbit/s

95th percentile per-packet one-way delay: 10.366 ms

Loss rate: 7.05%

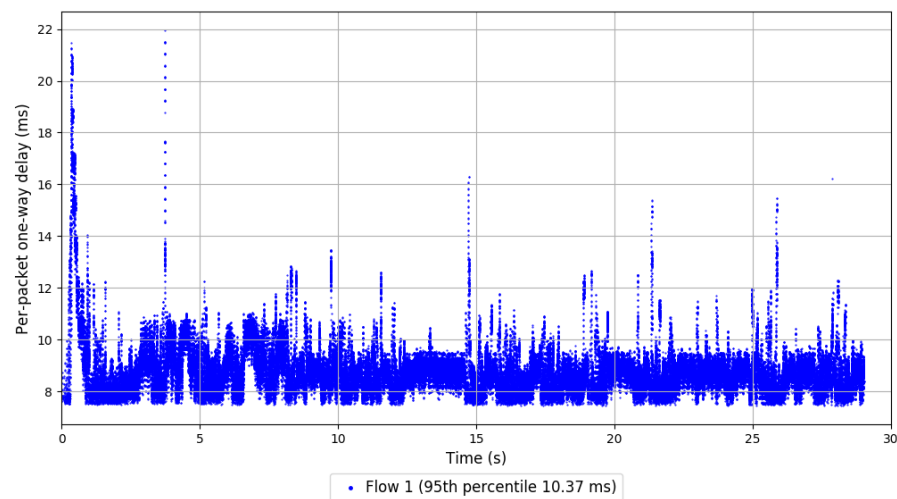
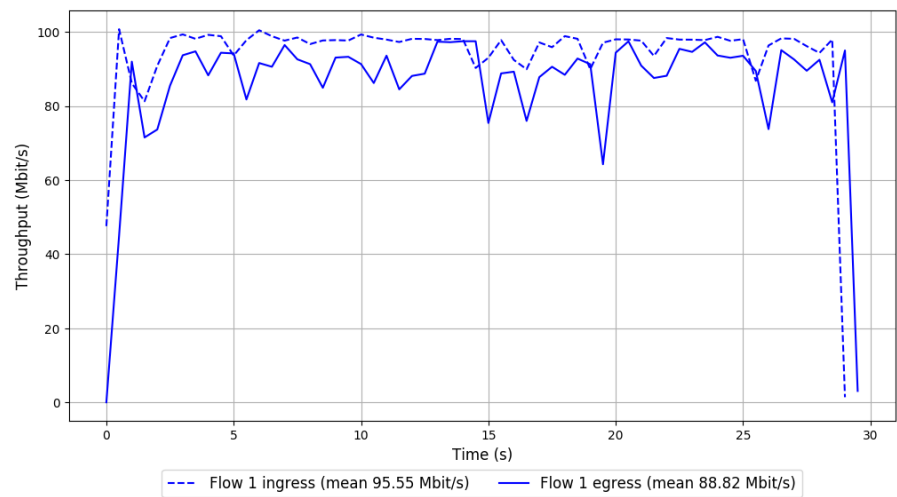
-- Flow 1:

Average throughput: 88.82 Mbit/s

95th percentile per-packet one-way delay: 10.366 ms

Loss rate: 7.05%

Run 5: Report of Indigo-MusesD — Data Link

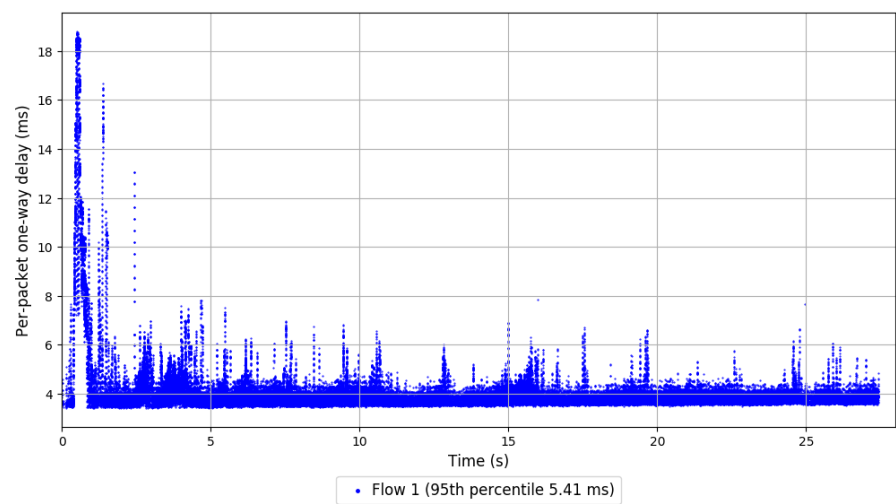
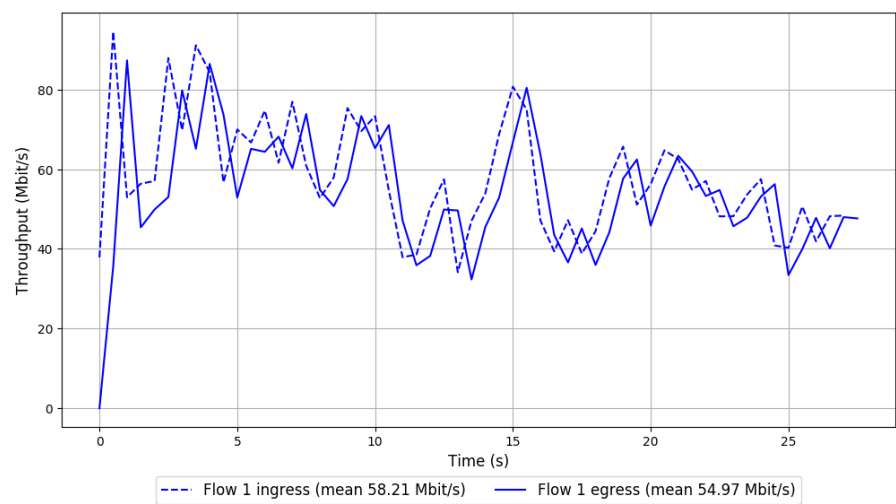


Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-18 19:28:26  
End at: 2019-03-18 19:28:56  
Local clock offset: -10.97 ms  
Remote clock offset: -7.332 ms

# Below is generated by plot.py at 2019-03-18 21:27:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 54.97 Mbit/s  
95th percentile per-packet one-way delay: 5.408 ms  
Loss rate: 5.57%  
-- Flow 1:  
Average throughput: 54.97 Mbit/s  
95th percentile per-packet one-way delay: 5.408 ms  
Loss rate: 5.57%

Run 1: Report of Indigo-MusesT — Data Link

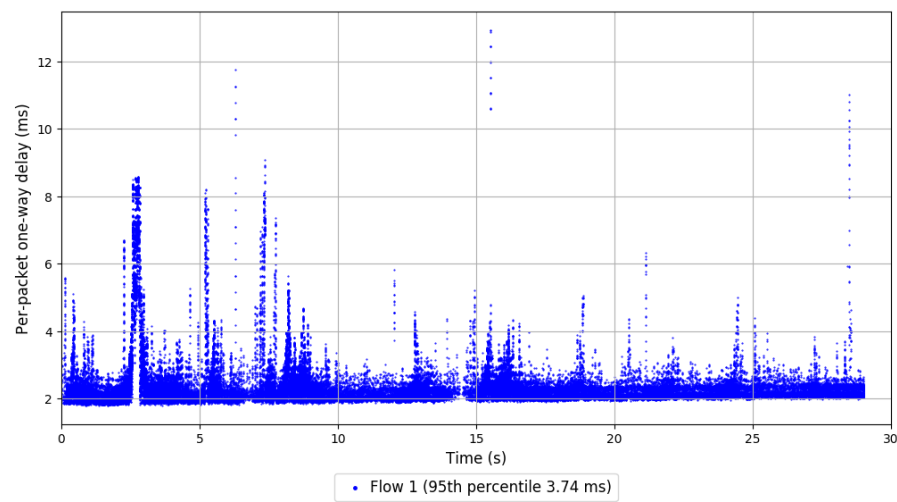
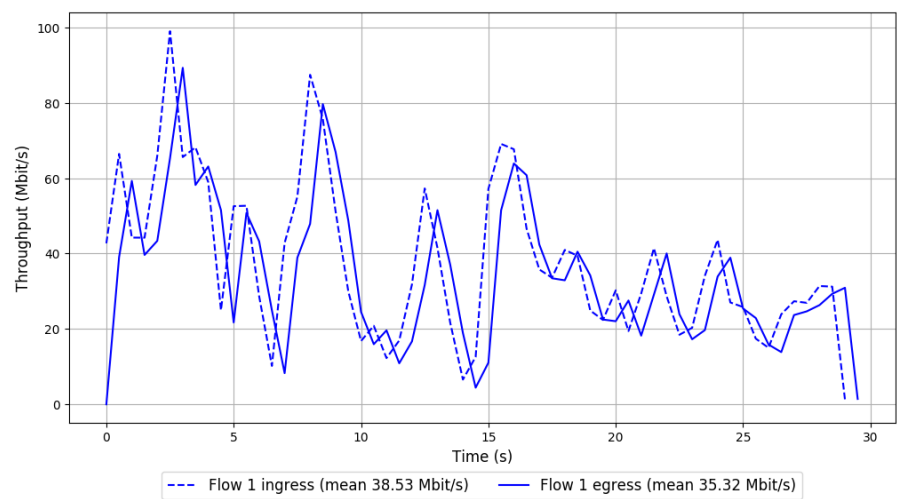


Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-18 19:52:19  
End at: 2019-03-18 19:52:49  
Local clock offset: -7.679 ms  
Remote clock offset: -9.504 ms

# Below is generated by plot.py at 2019-03-18 21:27:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 35.32 Mbit/s  
95th percentile per-packet one-way delay: 3.744 ms  
Loss rate: 8.33%  
-- Flow 1:  
Average throughput: 35.32 Mbit/s  
95th percentile per-packet one-way delay: 3.744 ms  
Loss rate: 8.33%

Run 2: Report of Indigo-MusesT — Data Link

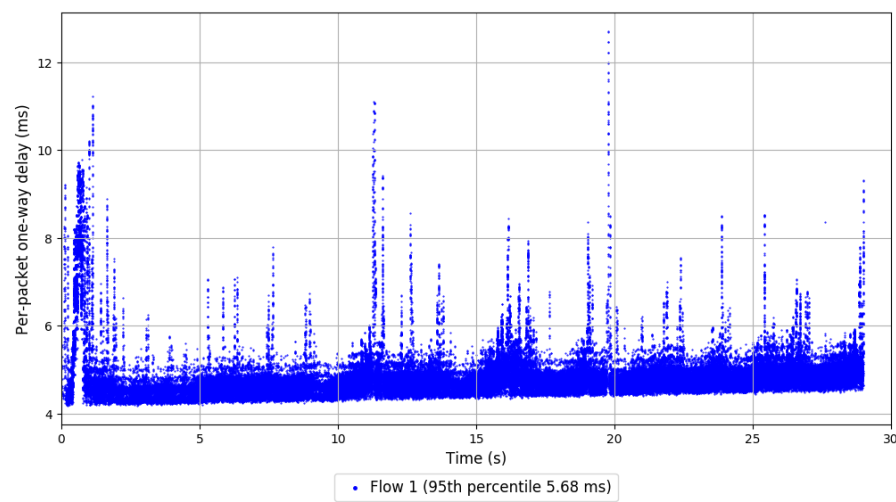
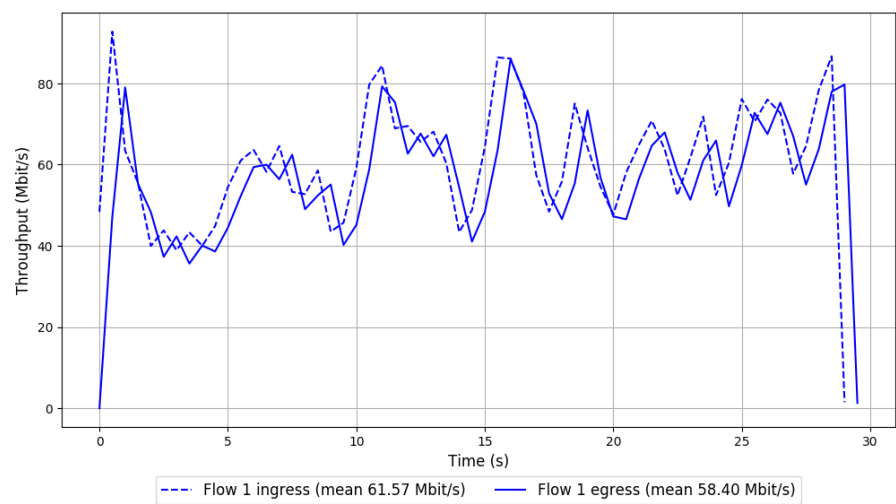


Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-18 20:16:03  
End at: 2019-03-18 20:16:33  
Local clock offset: -9.314 ms  
Remote clock offset: -8.688 ms

# Below is generated by plot.py at 2019-03-18 21:27:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 58.40 Mbit/s  
95th percentile per-packet one-way delay: 5.685 ms  
Loss rate: 5.14%  
-- Flow 1:  
Average throughput: 58.40 Mbit/s  
95th percentile per-packet one-way delay: 5.685 ms  
Loss rate: 5.14%

Run 3: Report of Indigo-MusesT — Data Link



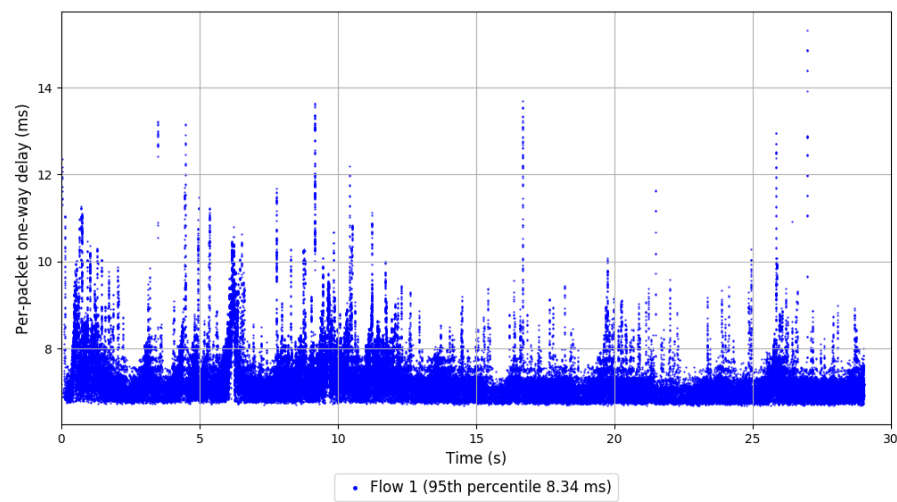
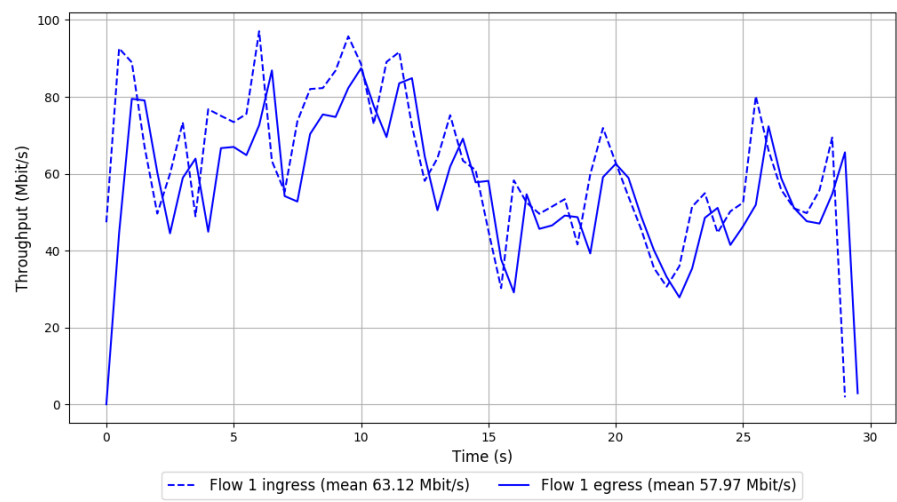


Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-18 20:39:38  
End at: 2019-03-18 20:40:08  
Local clock offset: -5.357 ms  
Remote clock offset: -7.198 ms

# Below is generated by plot.py at 2019-03-18 21:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.97 Mbit/s  
95th percentile per-packet one-way delay: 8.344 ms  
Loss rate: 8.16%  
-- Flow 1:  
Average throughput: 57.97 Mbit/s  
95th percentile per-packet one-way delay: 8.344 ms  
Loss rate: 8.16%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-18 21:03:04

End at: 2019-03-18 21:03:34

Local clock offset: -1.425 ms

Remote clock offset: -6.781 ms

# Below is generated by plot.py at 2019-03-18 21:27:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 7.740 ms

Loss rate: 8.23%

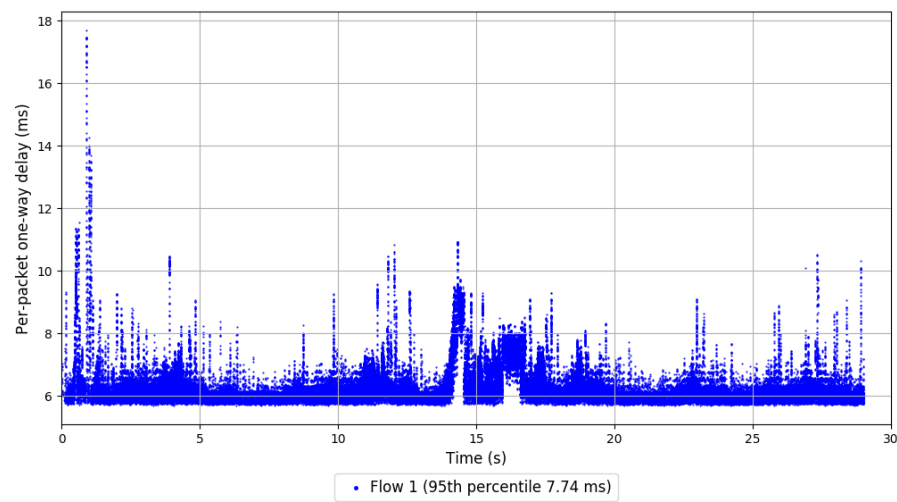
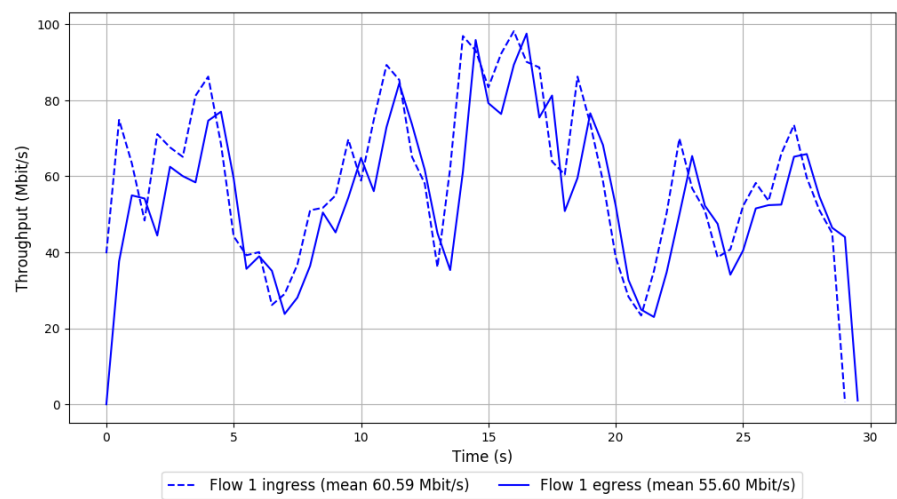
-- Flow 1:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 7.740 ms

Loss rate: 8.23%

Run 5: Report of Indigo-MusesT — Data Link

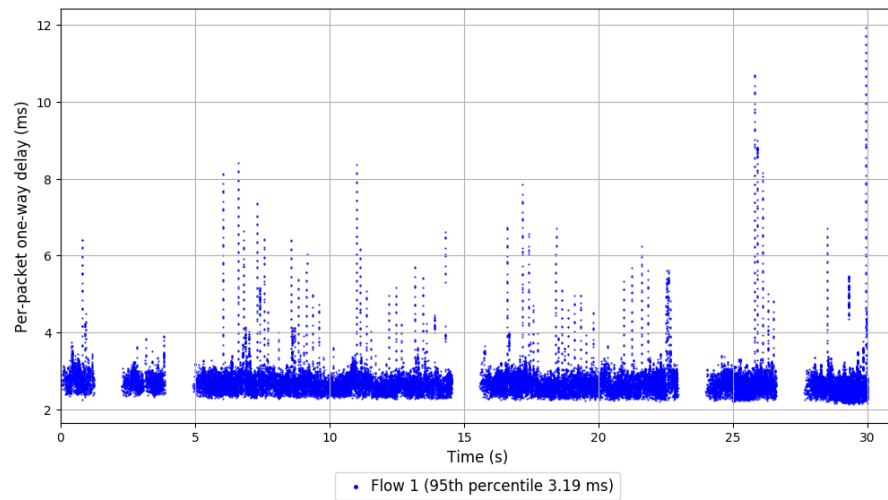
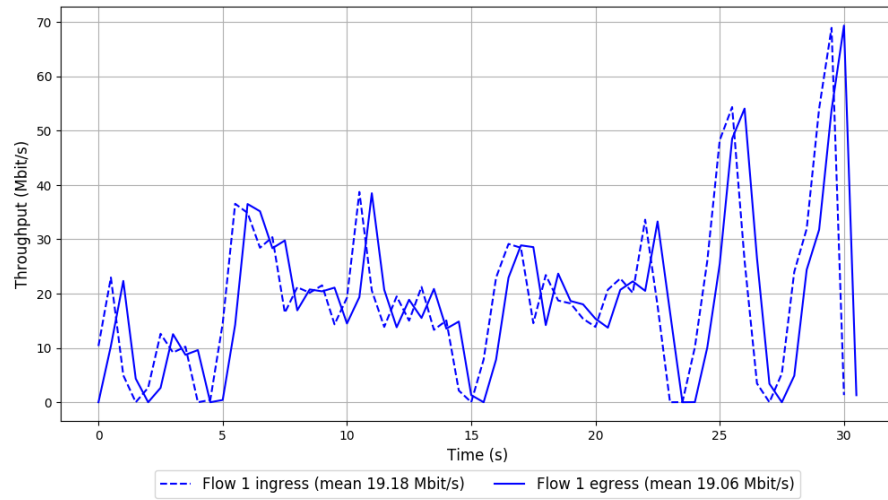


Run 1: Statistics of LEDBAT

Start at: 2019-03-18 19:42:13  
End at: 2019-03-18 19:42:43  
Local clock offset: -11.039 ms  
Remote clock offset: -8.212 ms

# Below is generated by plot.py at 2019-03-18 21:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 19.06 Mbit/s  
95th percentile per-packet one-way delay: 3.192 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 19.06 Mbit/s  
95th percentile per-packet one-way delay: 3.192 ms  
Loss rate: 0.61%

# Run 1: Report of LEDBAT — Data Link

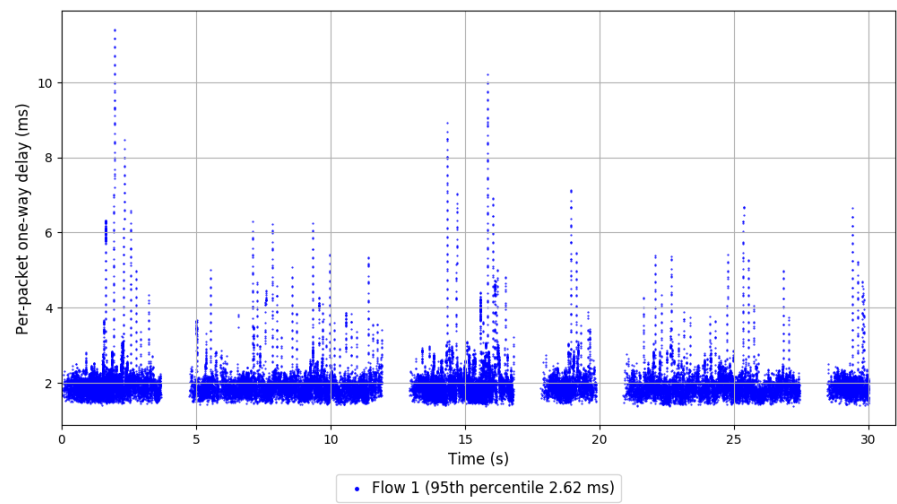
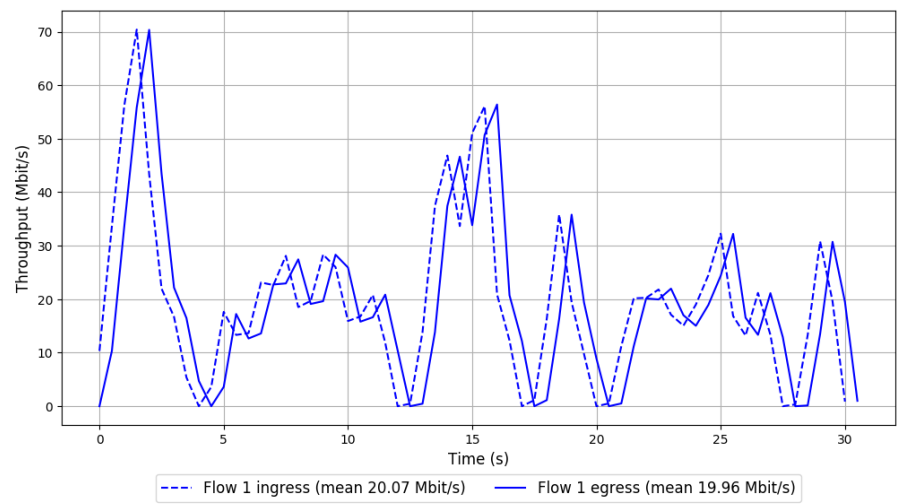


Run 2: Statistics of LEDBAT

Start at: 2019-03-18 20:05:58  
End at: 2019-03-18 20:06:28  
Local clock offset: -6.267 ms  
Remote clock offset: -9.898 ms

# Below is generated by plot.py at 2019-03-18 21:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 19.96 Mbit/s  
95th percentile per-packet one-way delay: 2.625 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 19.96 Mbit/s  
95th percentile per-packet one-way delay: 2.625 ms  
Loss rate: 0.55%

Run 2: Report of LEDBAT — Data Link



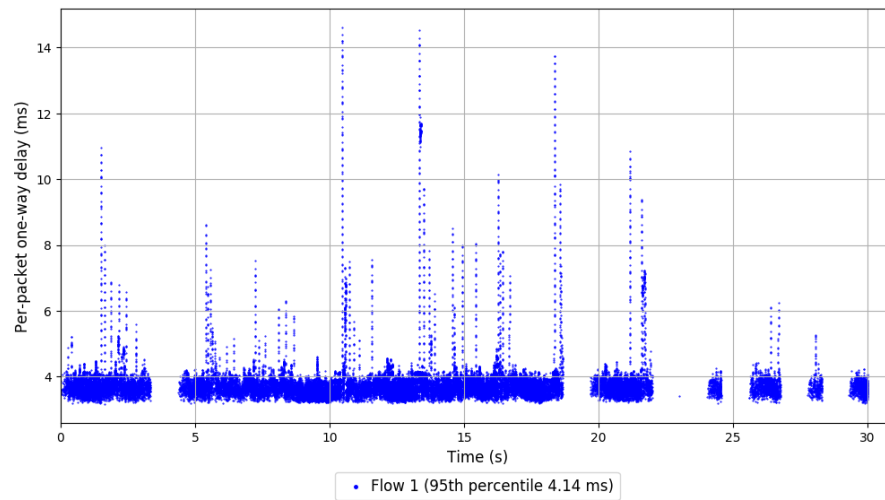
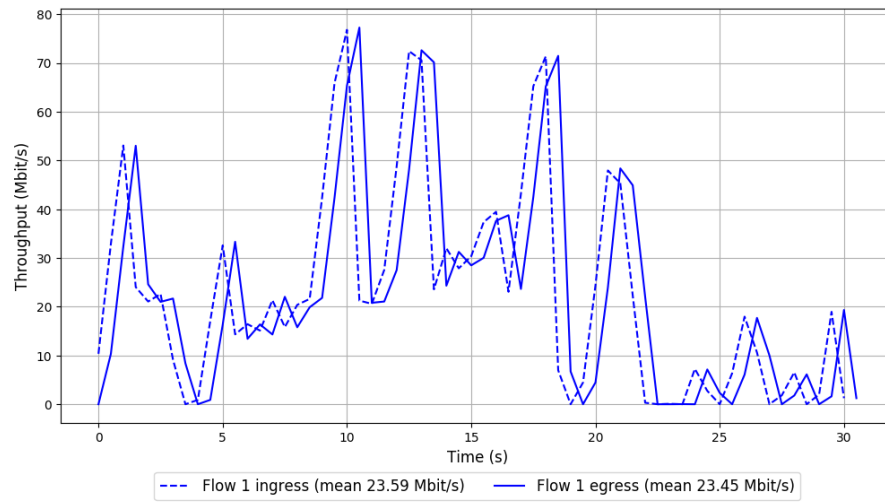


Run 3: Statistics of LEDBAT

Start at: 2019-03-18 20:29:39  
End at: 2019-03-18 20:30:09  
Local clock offset: -5.328 ms  
Remote clock offset: -9.743 ms

# Below is generated by plot.py at 2019-03-18 21:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.45 Mbit/s  
95th percentile per-packet one-way delay: 4.139 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 23.45 Mbit/s  
95th percentile per-packet one-way delay: 4.139 ms  
Loss rate: 0.56%

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

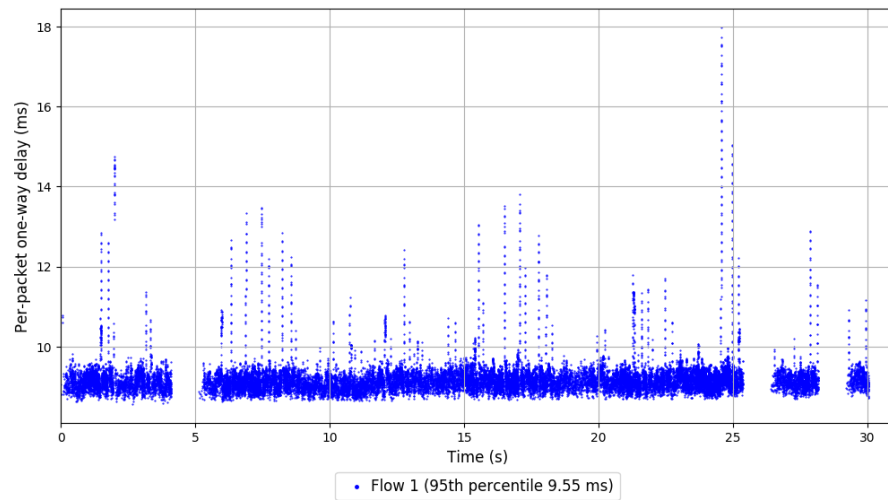
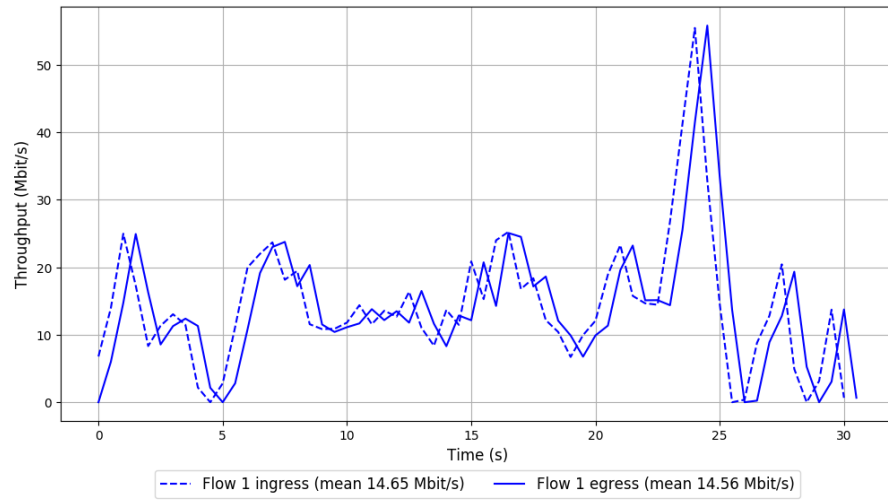


Run 4: Statistics of LEDBAT

Start at: 2019-03-18 20:53:07  
End at: 2019-03-18 20:53:37  
Local clock offset: -5.088 ms  
Remote clock offset: -6.929 ms

# Below is generated by plot.py at 2019-03-18 21:27:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 14.56 Mbit/s  
95th percentile per-packet one-way delay: 9.548 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 14.56 Mbit/s  
95th percentile per-packet one-way delay: 9.548 ms  
Loss rate: 0.66%

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

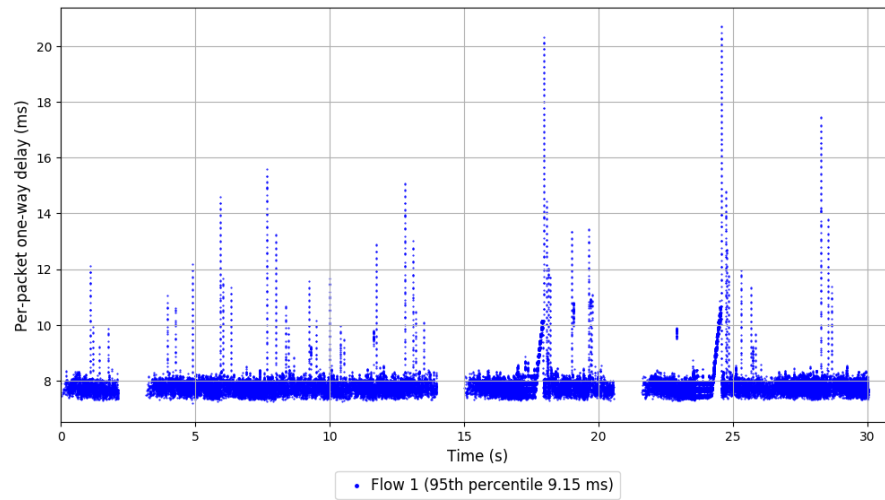
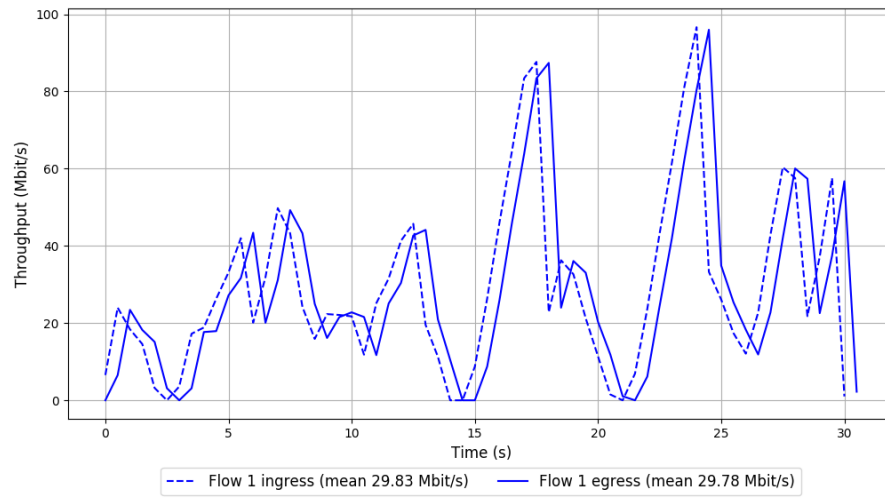


Run 5: Statistics of LEDBAT

Start at: 2019-03-18 21:16:34  
End at: 2019-03-18 21:17:04  
Local clock offset: -3.089 ms  
Remote clock offset: -6.024 ms

# Below is generated by plot.py at 2019-03-18 21:27:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 29.78 Mbit/s  
95th percentile per-packet one-way delay: 9.149 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 29.78 Mbit/s  
95th percentile per-packet one-way delay: 9.149 ms  
Loss rate: 0.18%

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

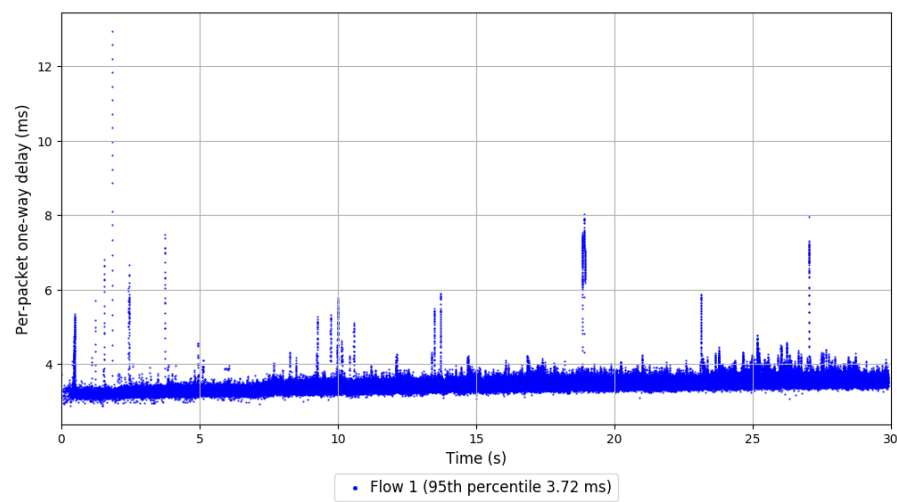
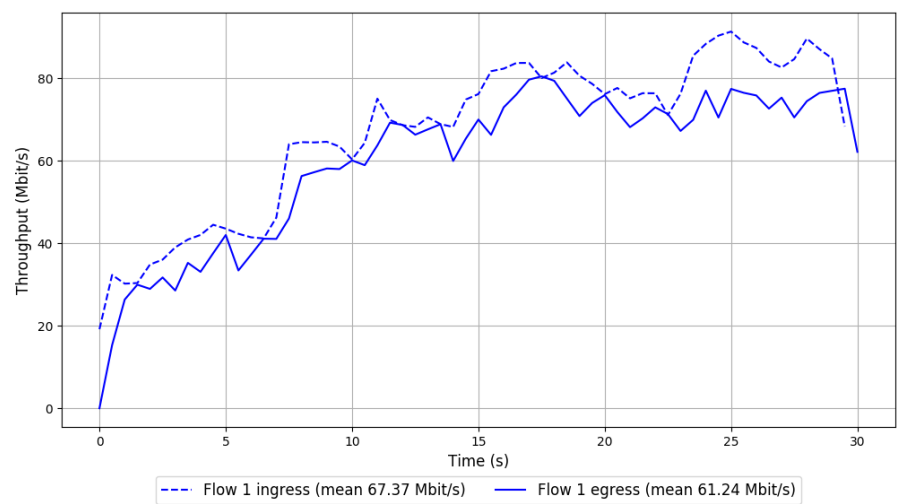


Run 1: Statistics of PCC-Allegro

Start at: 2019-03-18 19:27:20  
End at: 2019-03-18 19:27:50  
Local clock offset: -11.055 ms  
Remote clock offset: -7.264 ms

# Below is generated by plot.py at 2019-03-18 21:28:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 61.24 Mbit/s  
95th percentile per-packet one-way delay: 3.717 ms  
Loss rate: 9.10%  
-- Flow 1:  
Average throughput: 61.24 Mbit/s  
95th percentile per-packet one-way delay: 3.717 ms  
Loss rate: 9.10%

Run 1: Report of PCC-Allegro — Data Link



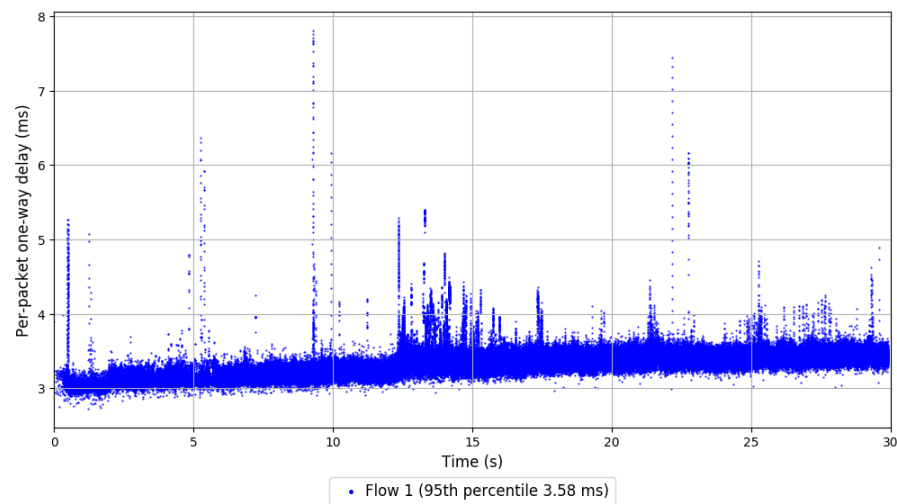
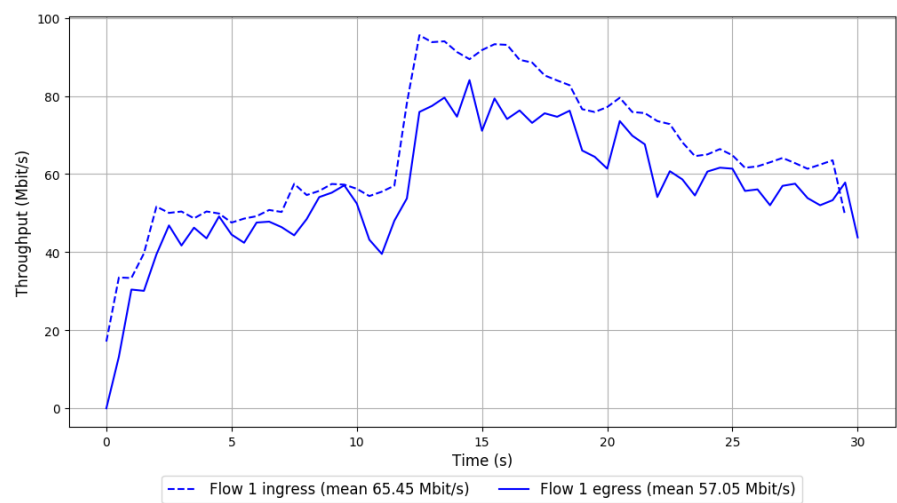


Run 2: Statistics of PCC-Allegro

Start at: 2019-03-18 19:51:05  
End at: 2019-03-18 19:51:35  
Local clock offset: -8.629 ms  
Remote clock offset: -8.666 ms

# Below is generated by plot.py at 2019-03-18 21:28:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.05 Mbit/s  
95th percentile per-packet one-way delay: 3.578 ms  
Loss rate: 12.83%  
-- Flow 1:  
Average throughput: 57.05 Mbit/s  
95th percentile per-packet one-way delay: 3.578 ms  
Loss rate: 12.83%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-18 20:14:56

End at: 2019-03-18 20:15:26

Local clock offset: -9.542 ms

Remote clock offset: -9.479 ms

# Below is generated by plot.py at 2019-03-18 21:28:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.50 Mbit/s

95th percentile per-packet one-way delay: 4.112 ms

Loss rate: 11.02%

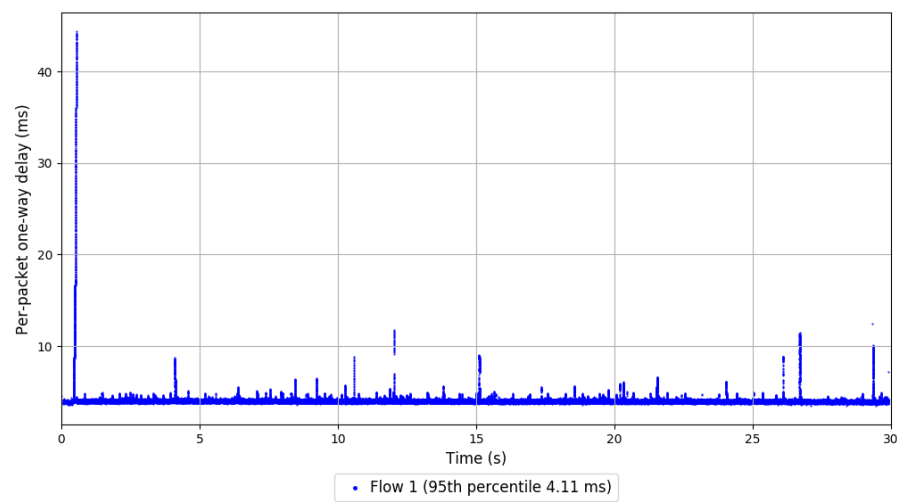
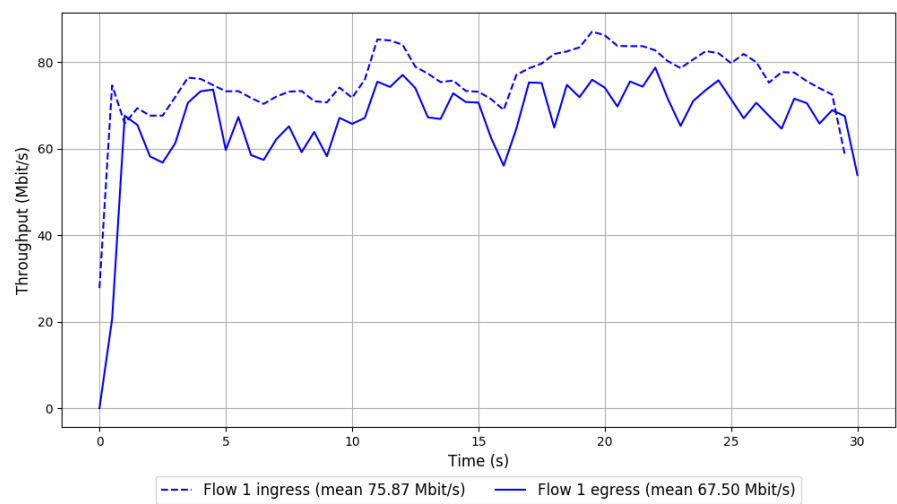
-- Flow 1:

Average throughput: 67.50 Mbit/s

95th percentile per-packet one-way delay: 4.112 ms

Loss rate: 11.02%

Run 3: Report of PCC-Allegro — Data Link

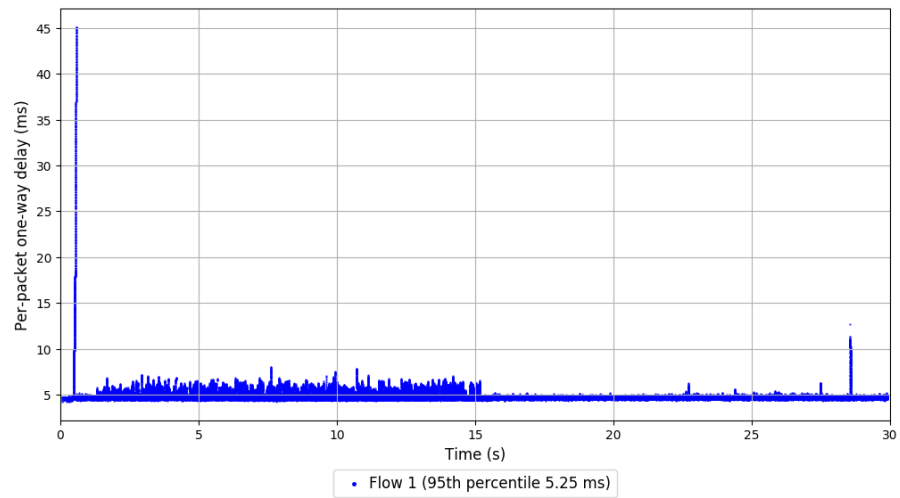
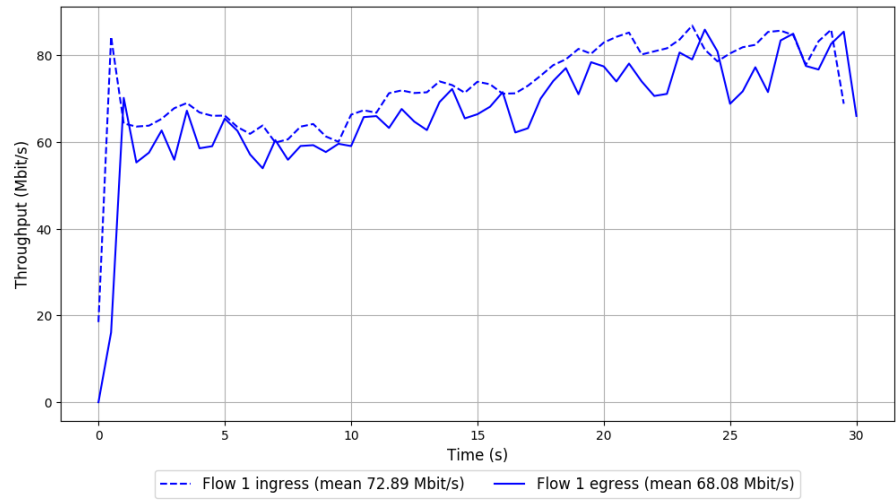


Run 4: Statistics of PCC-Allegro

Start at: 2019-03-18 20:38:31  
End at: 2019-03-18 20:39:01  
Local clock offset: -3.743 ms  
Remote clock offset: -8.019 ms

# Below is generated by plot.py at 2019-03-18 21:28:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.08 Mbit/s  
95th percentile per-packet one-way delay: 5.247 ms  
Loss rate: 6.61%  
-- Flow 1:  
Average throughput: 68.08 Mbit/s  
95th percentile per-packet one-way delay: 5.247 ms  
Loss rate: 6.61%

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

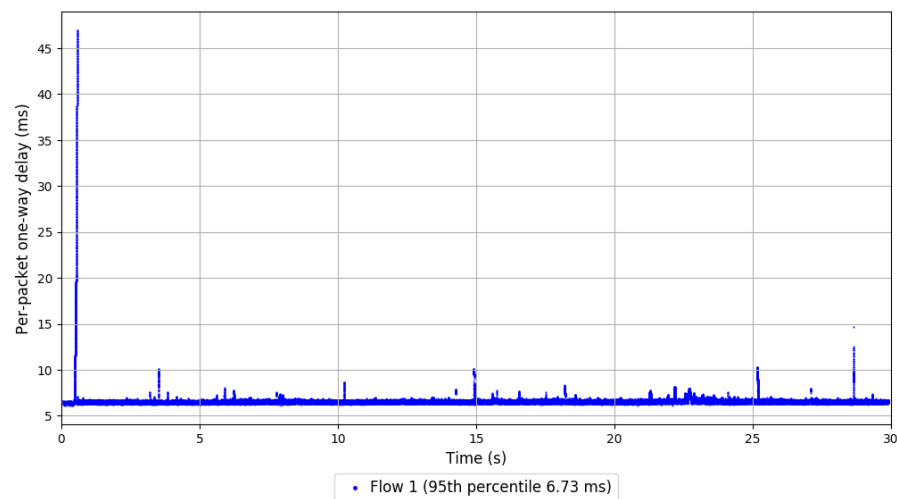
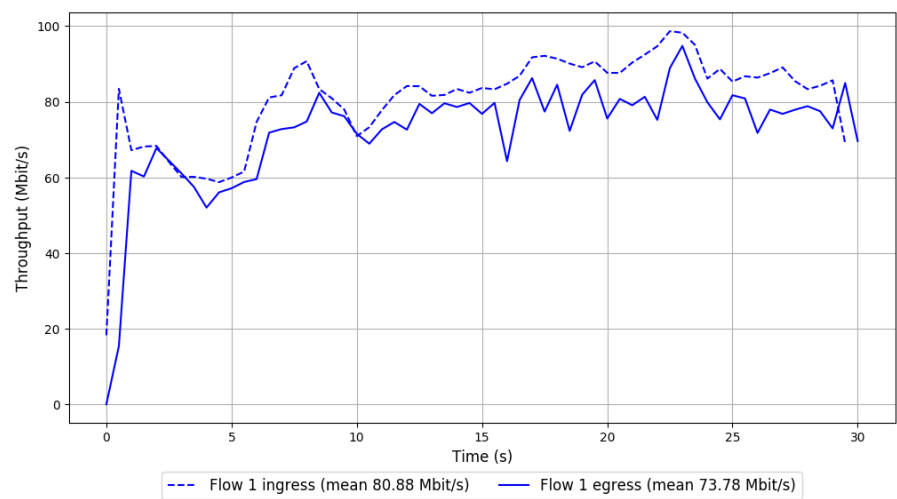


Run 5: Statistics of PCC-Allegro

Start at: 2019-03-18 21:01:57  
End at: 2019-03-18 21:02:27  
Local clock offset: -2.691 ms  
Remote clock offset: -7.542 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.78 Mbit/s  
95th percentile per-packet one-way delay: 6.726 ms  
Loss rate: 8.78%  
-- Flow 1:  
Average throughput: 73.78 Mbit/s  
95th percentile per-packet one-way delay: 6.726 ms  
Loss rate: 8.78%

Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

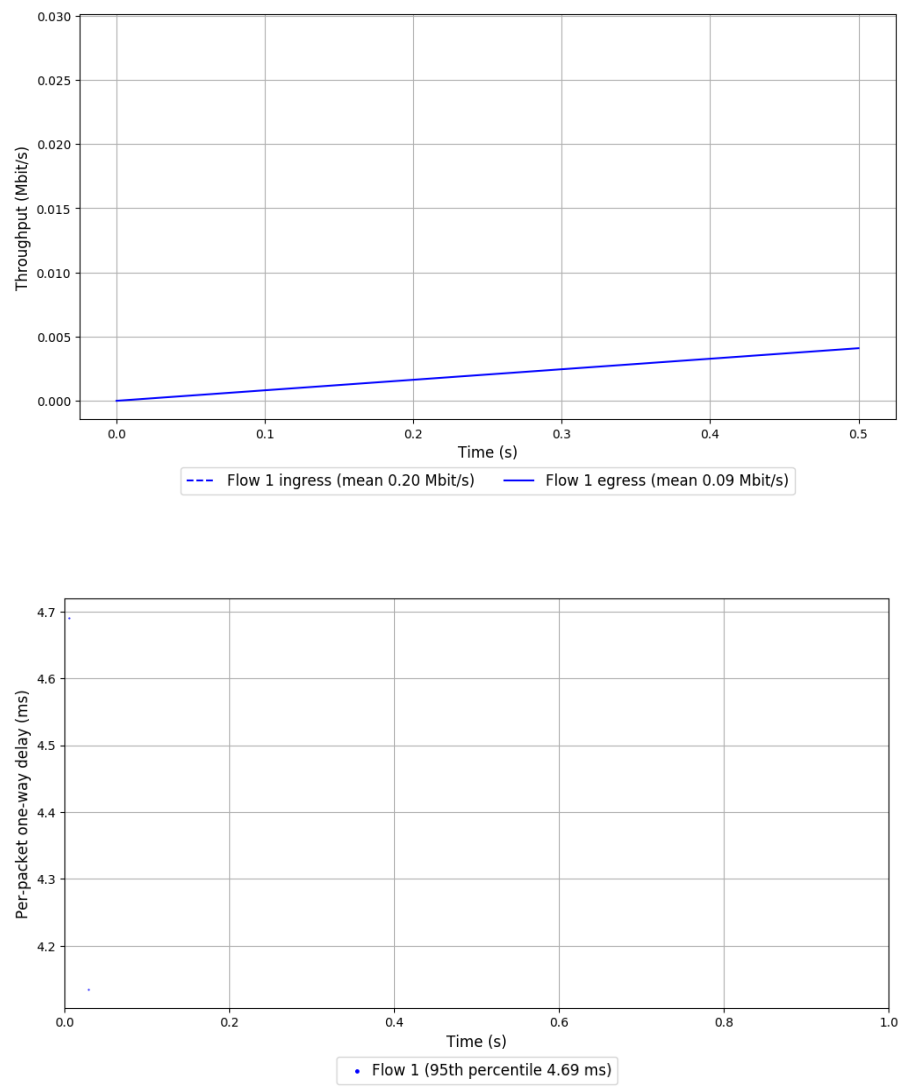
Start at: 2019-03-18 19:33:00

End at: 2019-03-18 19:33:30

Local clock offset: -10.8 ms

Remote clock offset: -7.321 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

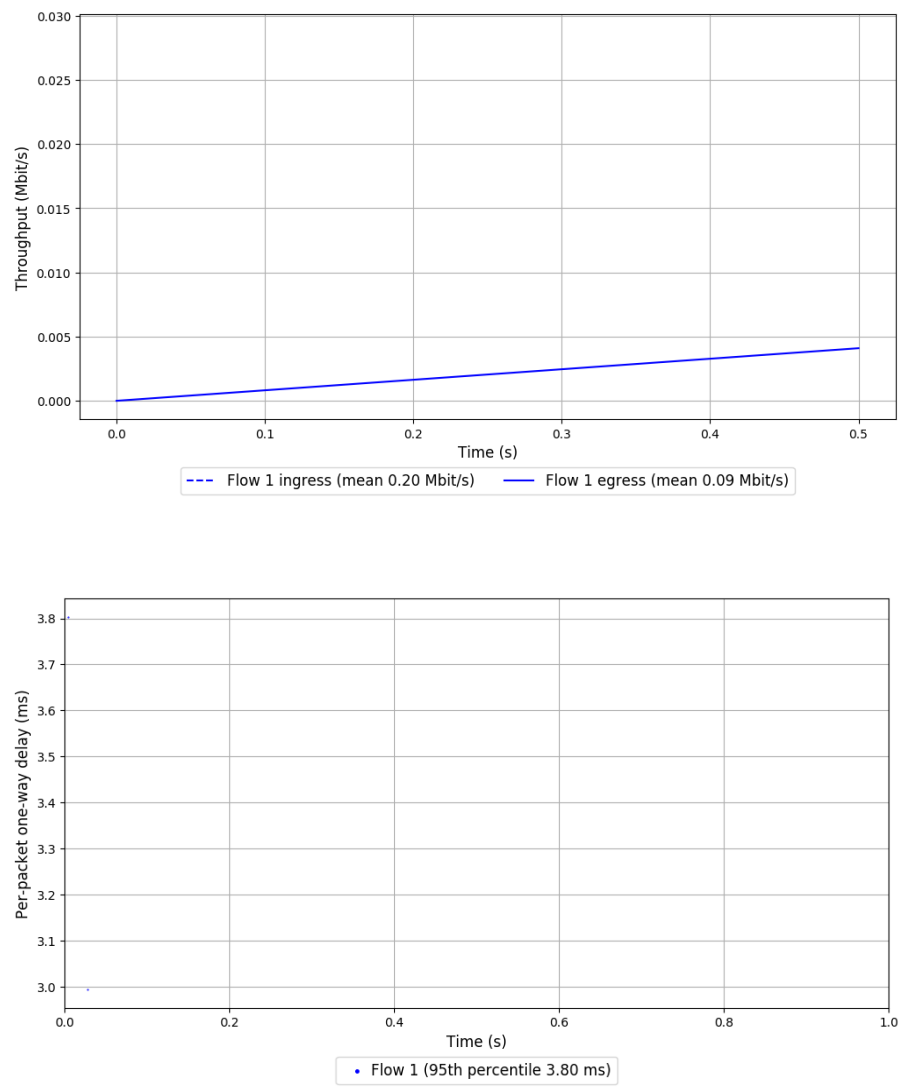
Start at: 2019-03-18 19:56:55

End at: 2019-03-18 19:57:25

Local clock offset: -6.342 ms

Remote clock offset: -8.39 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

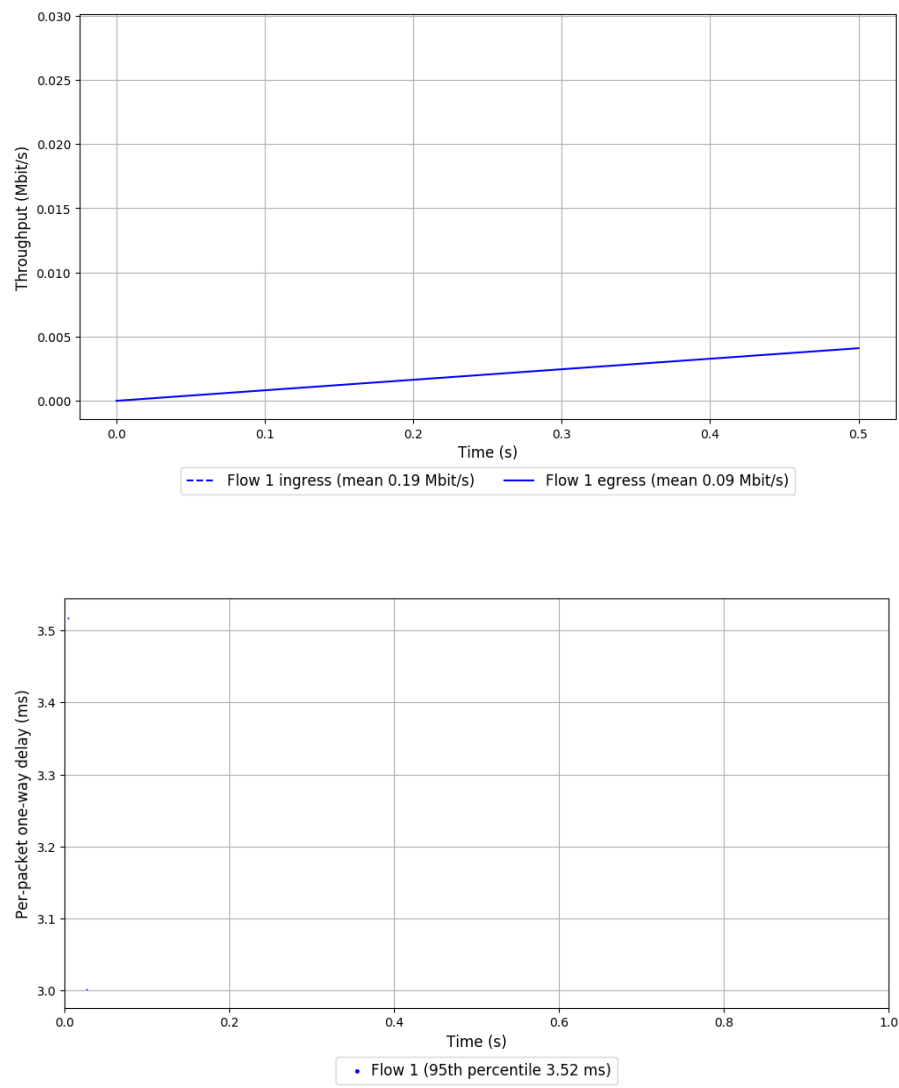
Start at: 2019-03-18 20:20:36

End at: 2019-03-18 20:21:06

Local clock offset: -6.876 ms

Remote clock offset: -9.962 ms

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

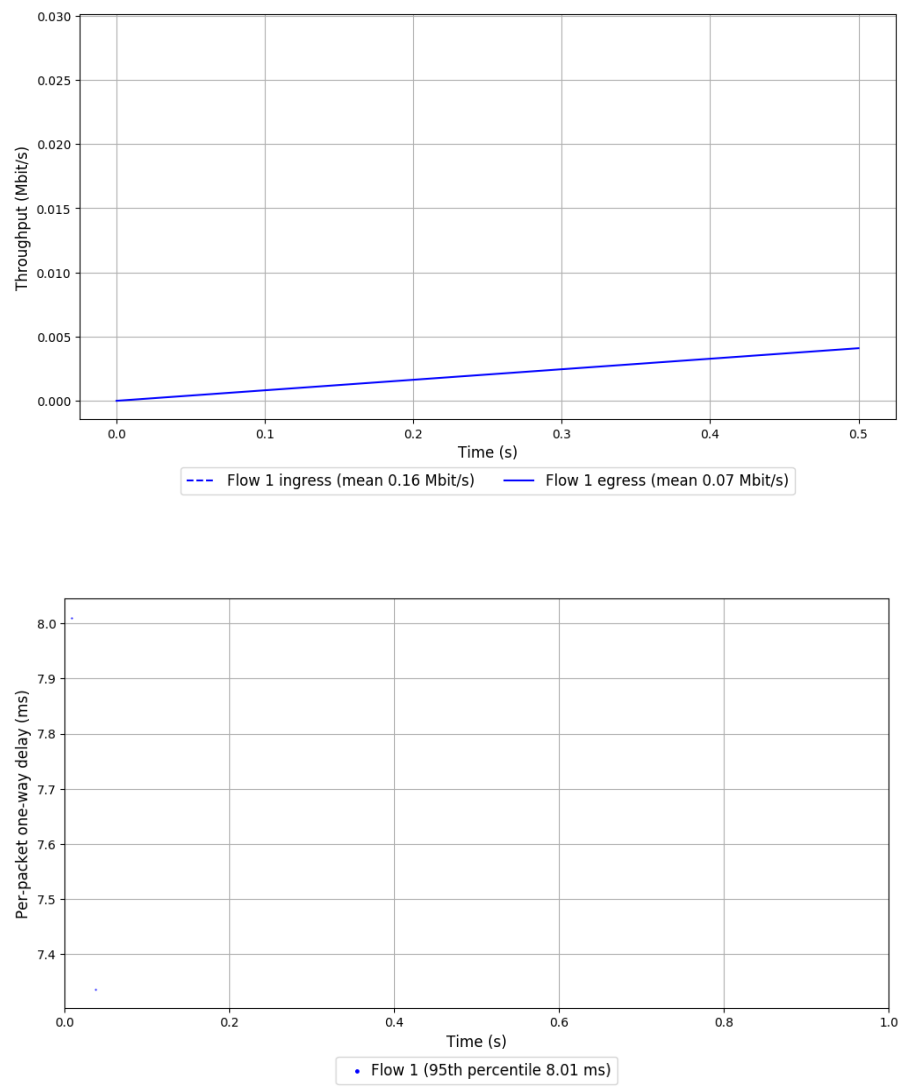
Start at: 2019-03-18 20:44:10

End at: 2019-03-18 20:44:40

Local clock offset: -5.943 ms

Remote clock offset: -6.842 ms

Run 4: Report of PCC-Expr — Data Link





Run 5: Statistics of PCC-Expr

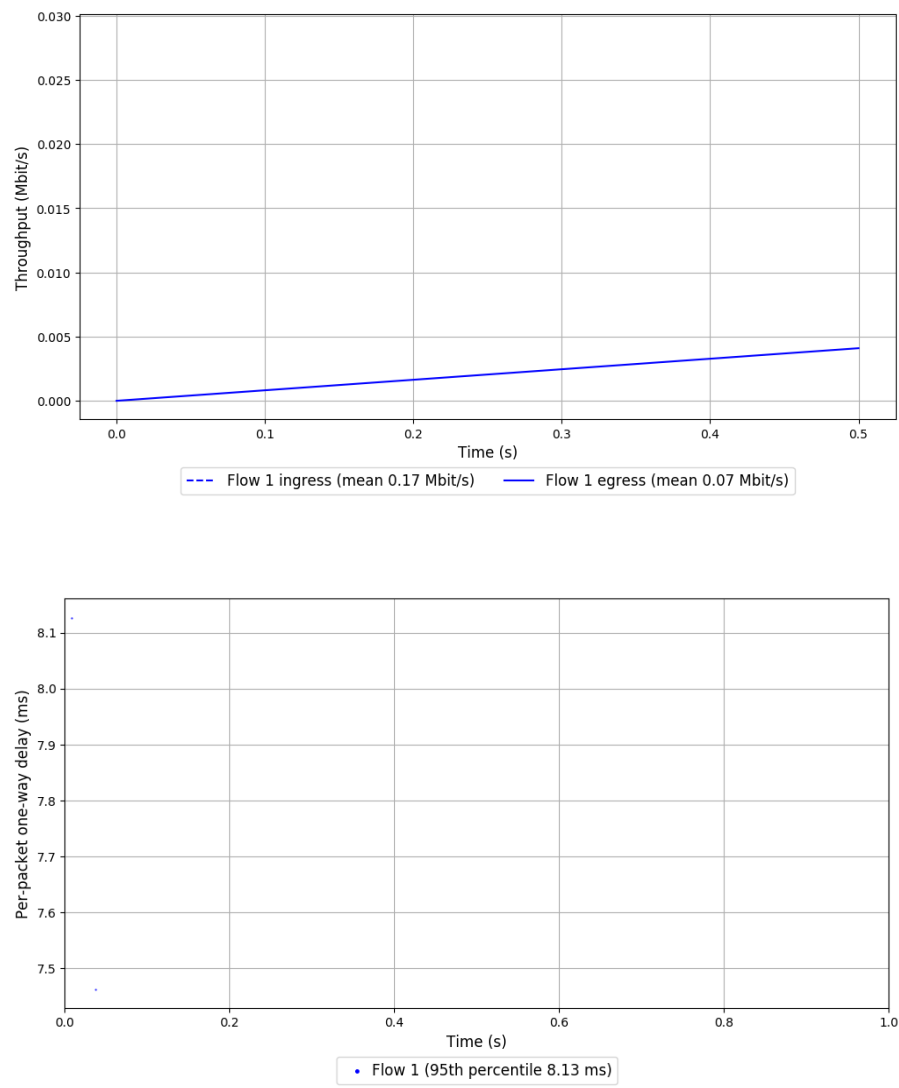
Start at: 2019-03-18 21:07:35

End at: 2019-03-18 21:08:05

Local clock offset: -2.994 ms

Remote clock offset: -6.427 ms

Run 5: Report of PCC-Expr — Data Link

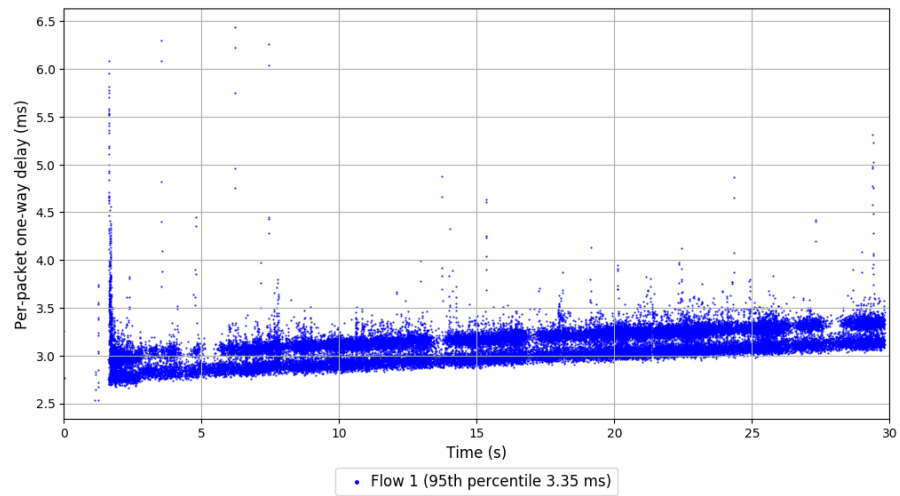
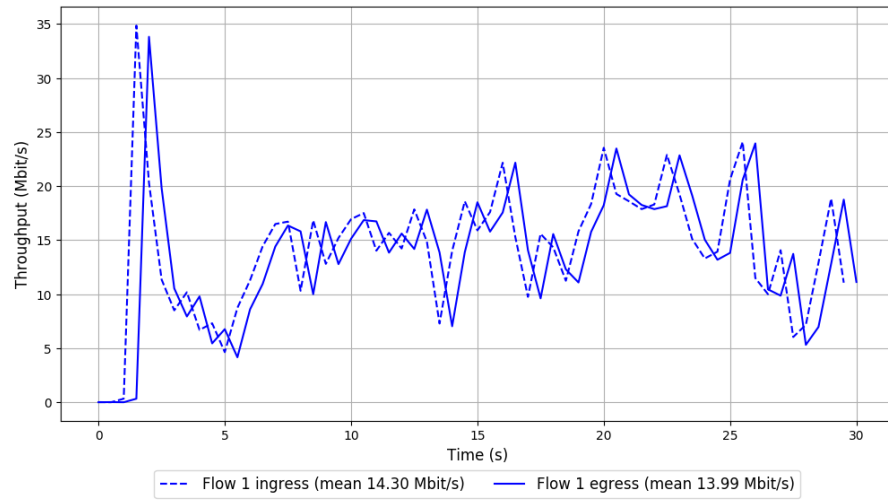


Run 1: Statistics of QUIC Cubic

Start at: 2019-03-18 19:25:09  
End at: 2019-03-18 19:25:39  
Local clock offset: -12.554 ms  
Remote clock offset: -7.792 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.99 Mbit/s  
95th percentile per-packet one-way delay: 3.351 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 13.99 Mbit/s  
95th percentile per-packet one-way delay: 3.351 ms  
Loss rate: 2.11%

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

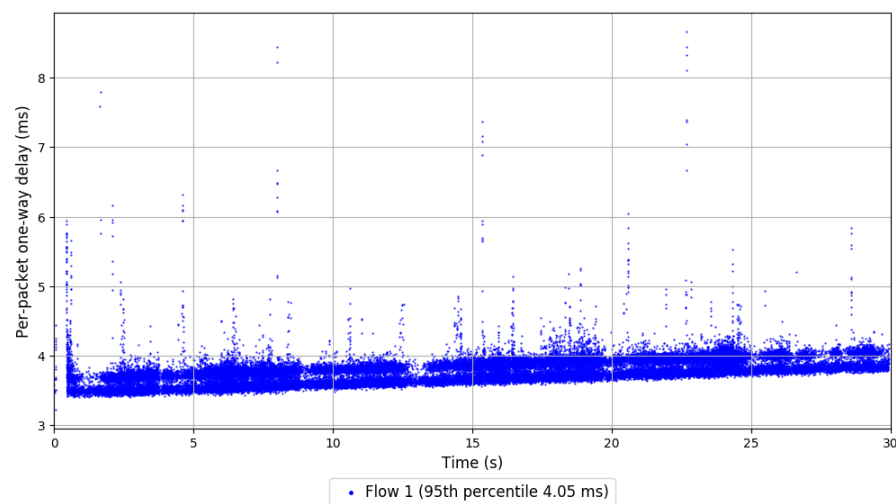
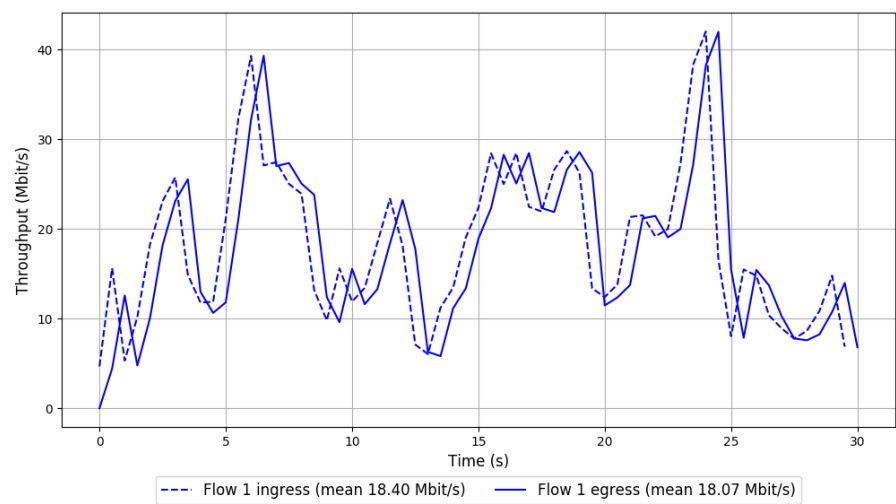


Run 2: Statistics of QUIC Cubic

Start at: 2019-03-18 19:48:53  
End at: 2019-03-18 19:49:23  
Local clock offset: -10.122 ms  
Remote clock offset: -8.147 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 18.07 Mbit/s  
95th percentile per-packet one-way delay: 4.047 ms  
Loss rate: 1.75%  
-- Flow 1:  
Average throughput: 18.07 Mbit/s  
95th percentile per-packet one-way delay: 4.047 ms  
Loss rate: 1.75%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-18 20:12:44

End at: 2019-03-18 20:13:14

Local clock offset: -8.906 ms

Remote clock offset: -9.965 ms

# Below is generated by plot.py at 2019-03-18 21:28:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 3.455 ms

Loss rate: 0.46%

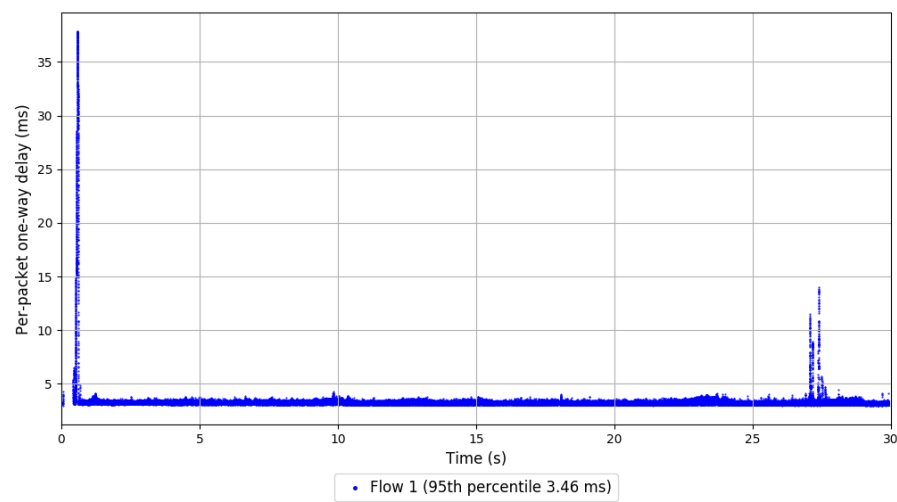
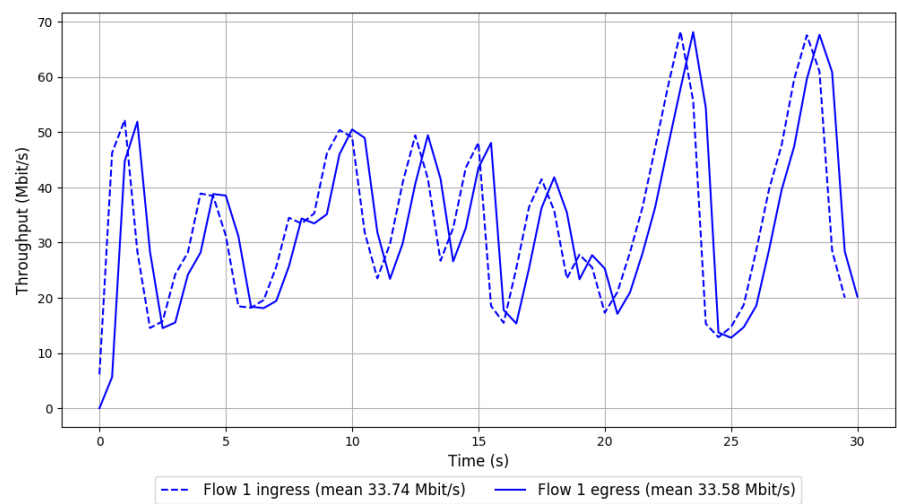
-- Flow 1:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 3.455 ms

Loss rate: 0.46%

Run 3: Report of QUIC Cubic — Data Link



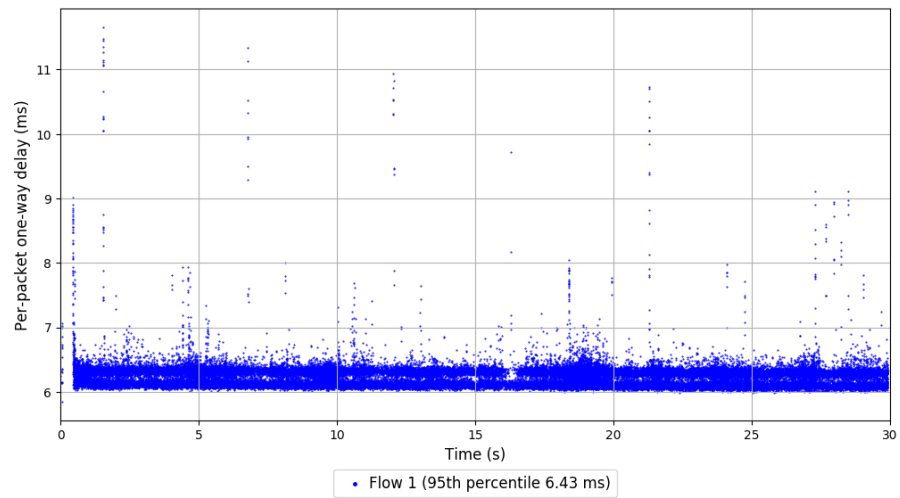
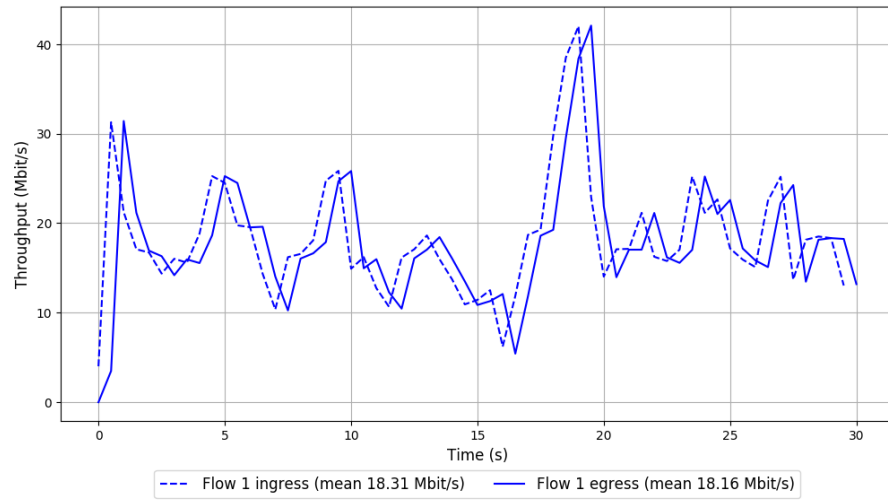


Run 4: Statistics of QUIC Cubic

Start at: 2019-03-18 20:36:19  
End at: 2019-03-18 20:36:49  
Local clock offset: -4.175 ms  
Remote clock offset: -6.973 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 18.16 Mbit/s  
95th percentile per-packet one-way delay: 6.426 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 18.16 Mbit/s  
95th percentile per-packet one-way delay: 6.426 ms  
Loss rate: 0.83%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-18 20:59:45

End at: 2019-03-18 21:00:15

Local clock offset: -1.046 ms

Remote clock offset: -6.719 ms

# Below is generated by plot.py at 2019-03-18 21:28:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.32 Mbit/s

95th percentile per-packet one-way delay: 5.845 ms

Loss rate: 0.68%

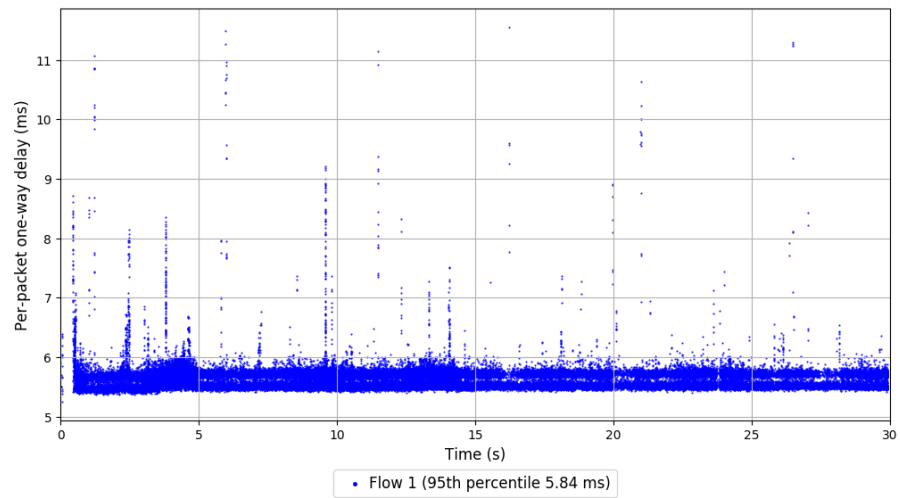
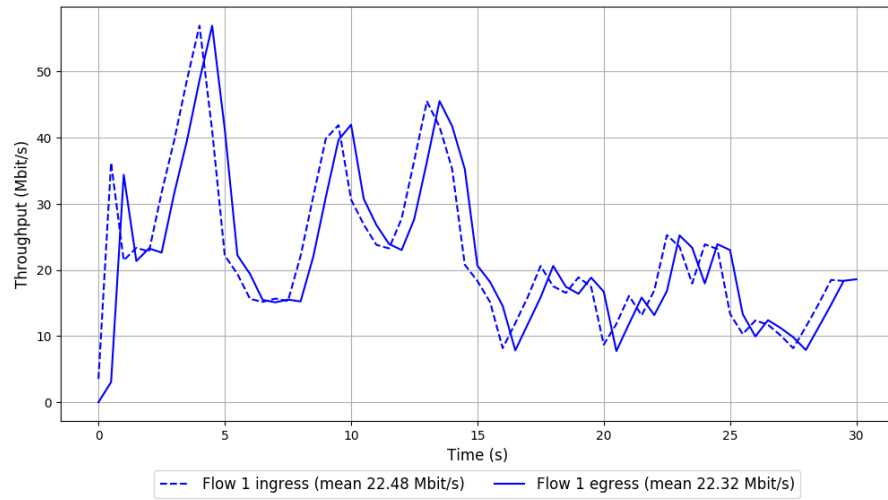
-- Flow 1:

Average throughput: 22.32 Mbit/s

95th percentile per-packet one-way delay: 5.845 ms

Loss rate: 0.68%

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

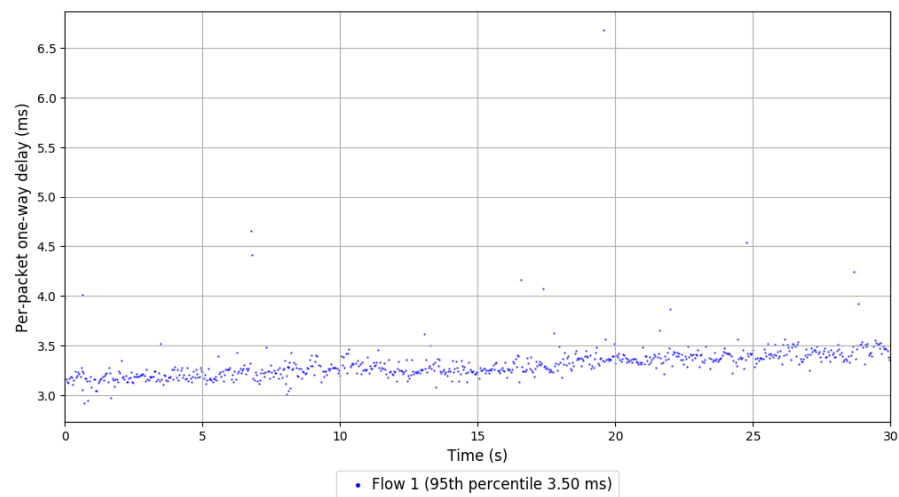
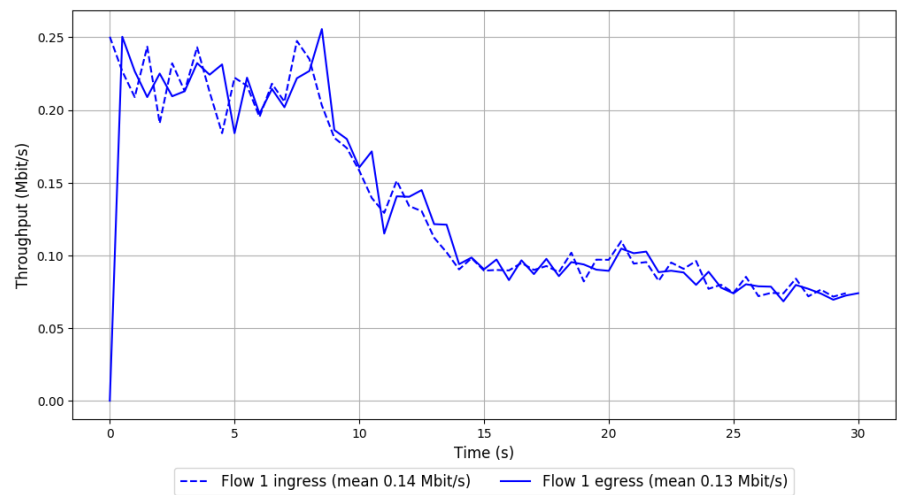


Run 1: Statistics of SCReAM

Start at: 2019-03-18 19:24:03  
End at: 2019-03-18 19:24:33  
Local clock offset: -13.364 ms  
Remote clock offset: -7.404 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 3.504 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 3.504 ms  
Loss rate: 0.82%

Run 1: Report of SReAM — Data Link

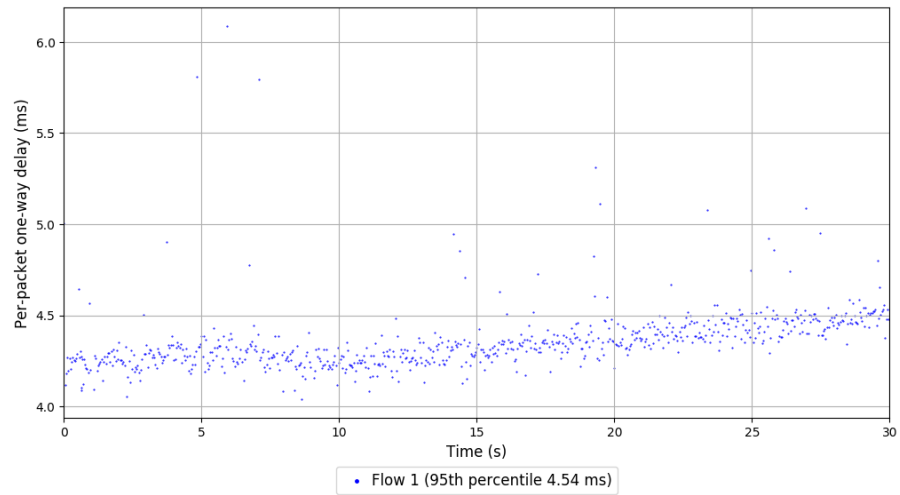
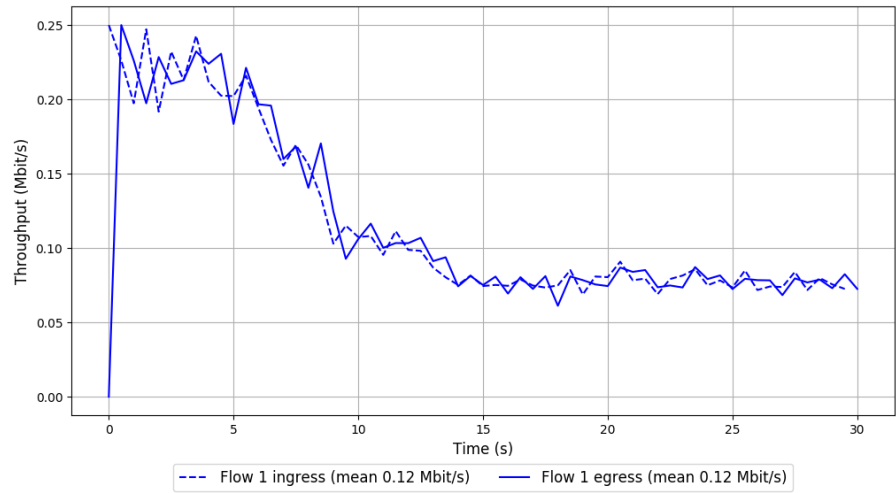


Run 2: Statistics of SCReAM

Start at: 2019-03-18 19:47:48  
End at: 2019-03-18 19:48:18  
Local clock offset: -11.395 ms  
Remote clock offset: -7.887 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 4.541 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 4.541 ms  
Loss rate: 0.82%

## Run 2: Report of SReAM — Data Link



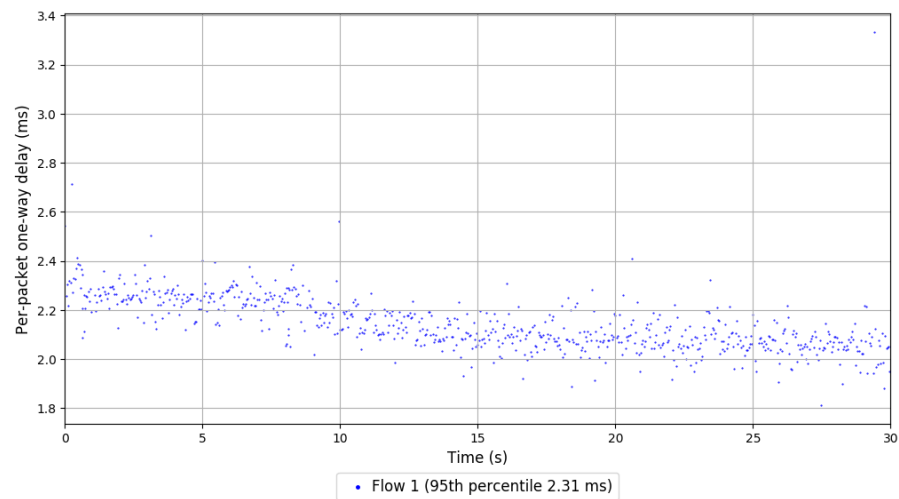
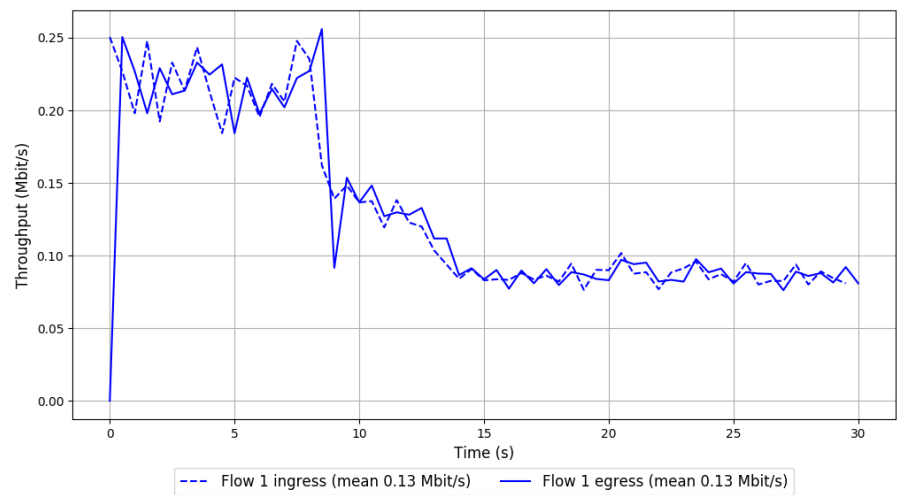


Run 3: Statistics of SCReAM

Start at: 2019-03-18 20:11:39  
End at: 2019-03-18 20:12:09  
Local clock offset: -7.116 ms  
Remote clock offset: -9.308 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 2.306 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 2.306 ms  
Loss rate: 0.71%

Run 3: Report of SReAM — Data Link

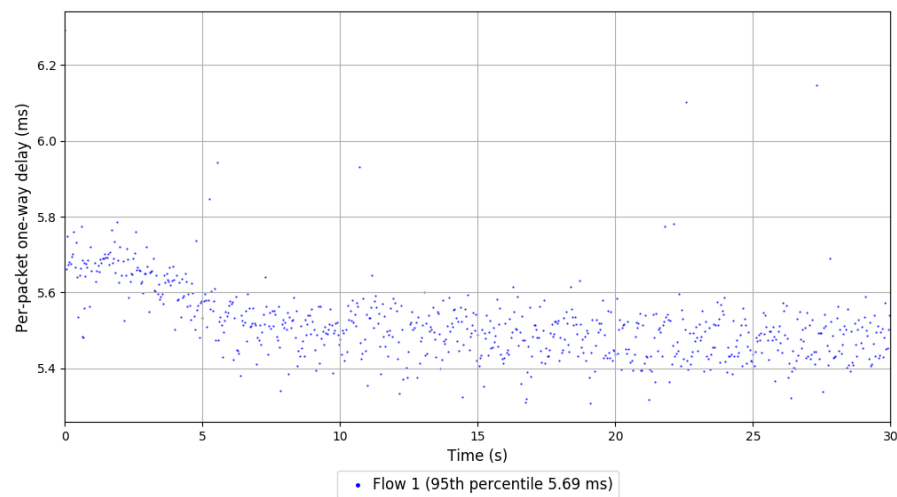
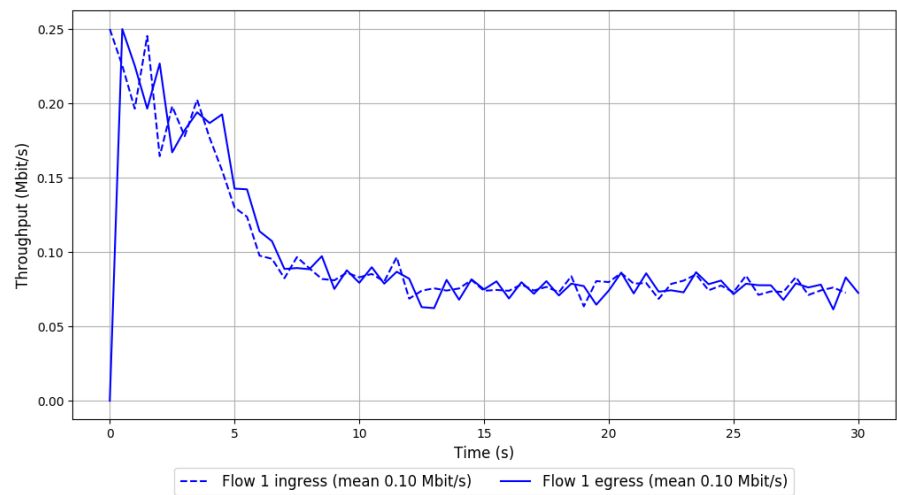


Run 4: Statistics of SCReAM

Start at: 2019-03-18 20:35:14  
End at: 2019-03-18 20:35:44  
Local clock offset: -4.762 ms  
Remote clock offset: -8.272 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 5.686 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 5.686 ms  
Loss rate: 1.00%

Run 4: Report of SReAM — Data Link

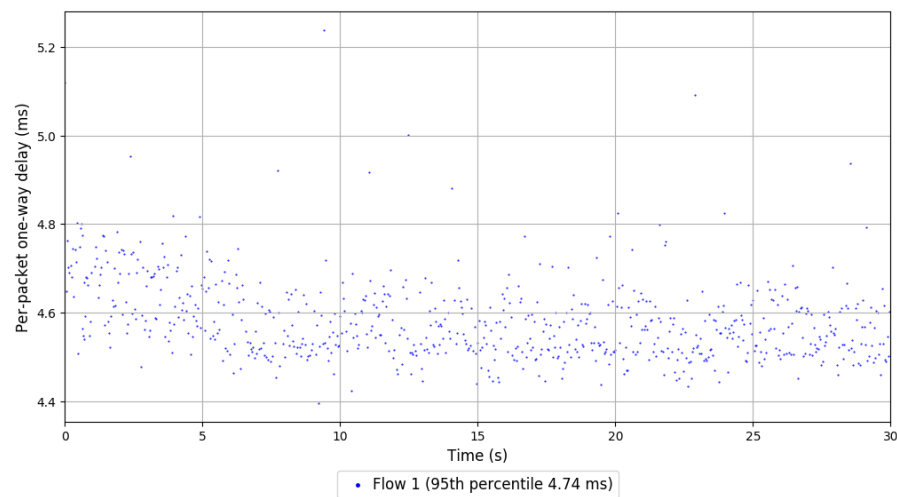
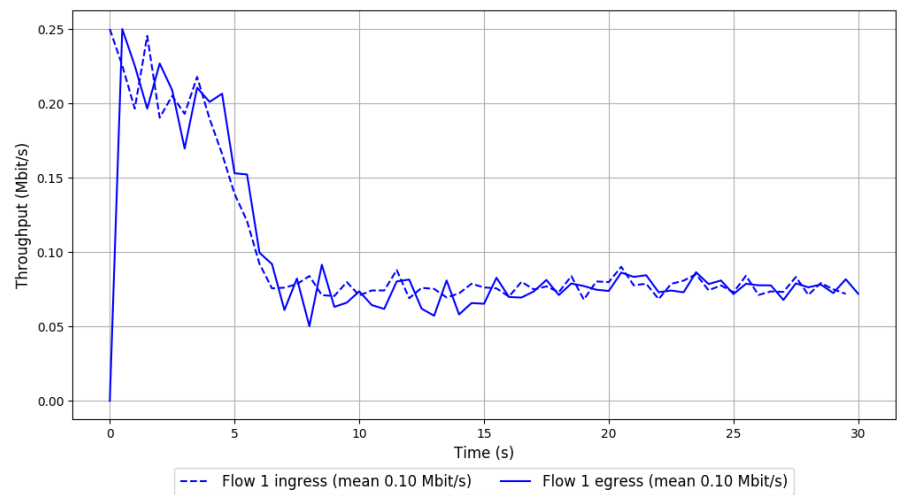


Run 5: Statistics of SCReAM

Start at: 2019-03-18 20:58:40  
End at: 2019-03-18 20:59:11  
Local clock offset: -1.63 ms  
Remote clock offset: -8.174 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 4.742 ms  
Loss rate: 2.62%  
-- Flow 1:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 4.742 ms  
Loss rate: 2.62%

Run 5: Report of SReAM — Data Link

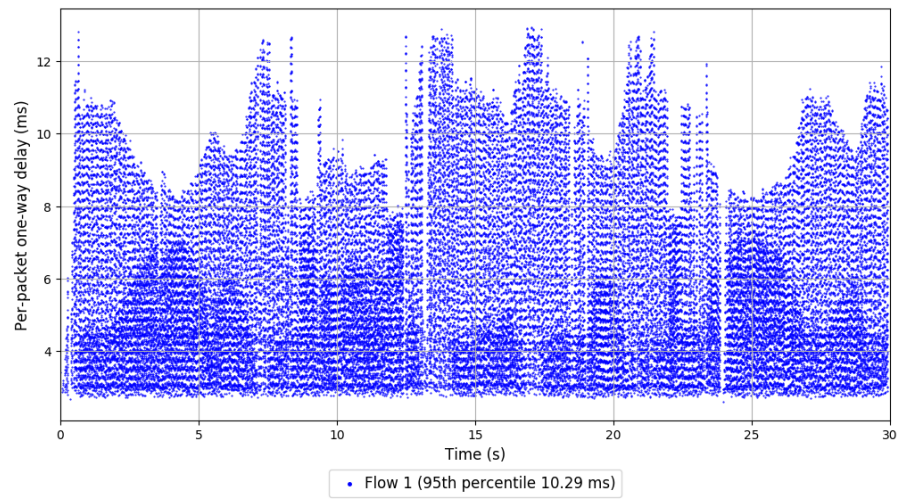
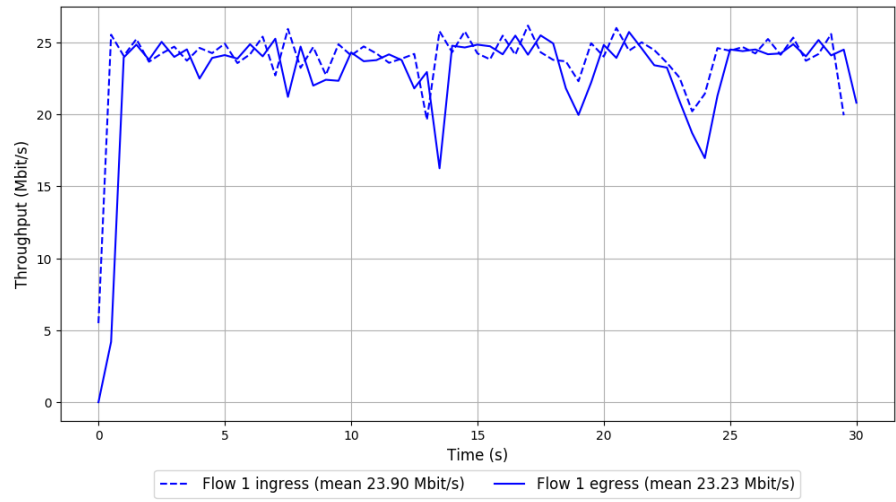


Run 1: Statistics of Sprout

Start at: 2019-03-18 19:31:55  
End at: 2019-03-18 19:32:25  
Local clock offset: -10.399 ms  
Remote clock offset: -8.378 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.23 Mbit/s  
95th percentile per-packet one-way delay: 10.293 ms  
Loss rate: 2.82%  
-- Flow 1:  
Average throughput: 23.23 Mbit/s  
95th percentile per-packet one-way delay: 10.293 ms  
Loss rate: 2.82%

# Run 1: Report of Sprout — Data Link



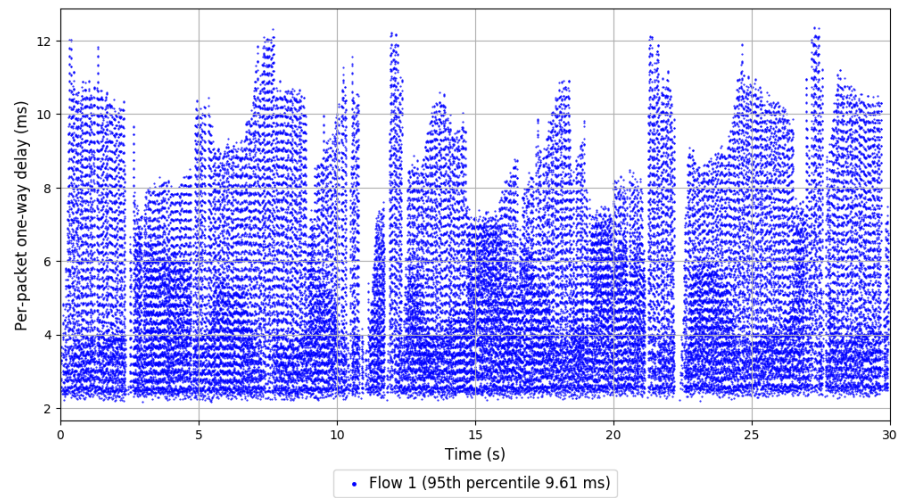
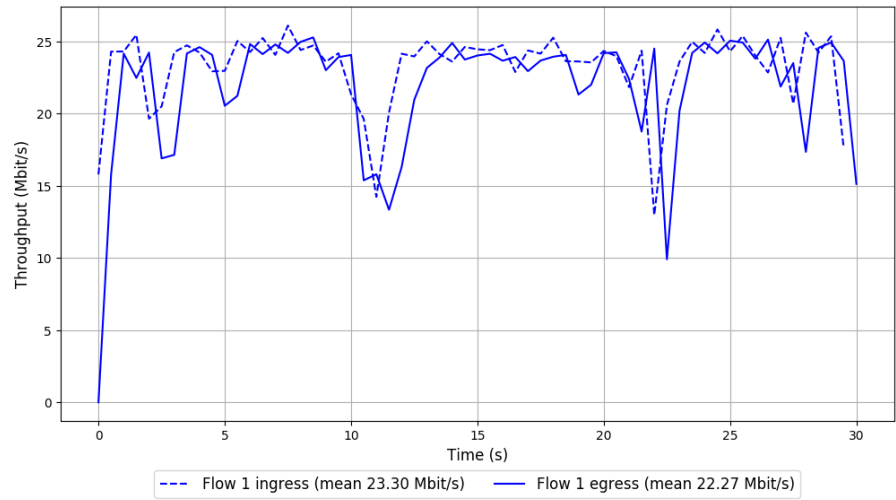


Run 2: Statistics of Sprout

Start at: 2019-03-18 19:55:49  
End at: 2019-03-18 19:56:19  
Local clock offset: -5.725 ms  
Remote clock offset: -8.356 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.27 Mbit/s  
95th percentile per-packet one-way delay: 9.613 ms  
Loss rate: 4.41%  
-- Flow 1:  
Average throughput: 22.27 Mbit/s  
95th percentile per-packet one-way delay: 9.613 ms  
Loss rate: 4.41%

## Run 2: Report of Sprout — Data Link

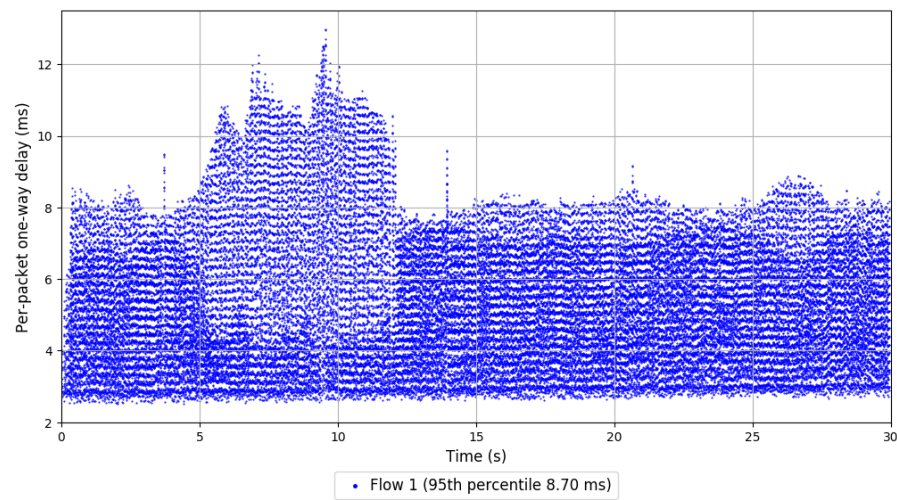
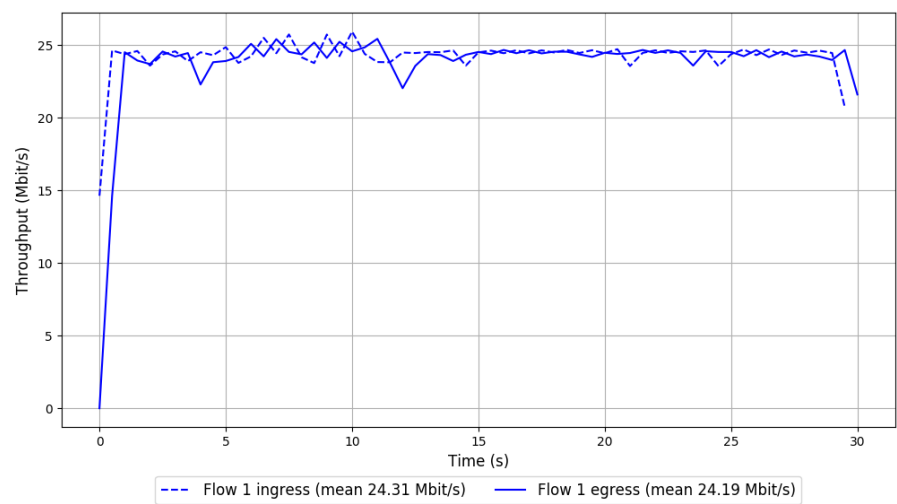


Run 3: Statistics of Sprout

Start at: 2019-03-18 20:19:30  
End at: 2019-03-18 20:20:00  
Local clock offset: -6.889 ms  
Remote clock offset: -9.984 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.19 Mbit/s  
95th percentile per-packet one-way delay: 8.702 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 24.19 Mbit/s  
95th percentile per-packet one-way delay: 8.702 ms  
Loss rate: 0.47%

Run 3: Report of Sprout — Data Link

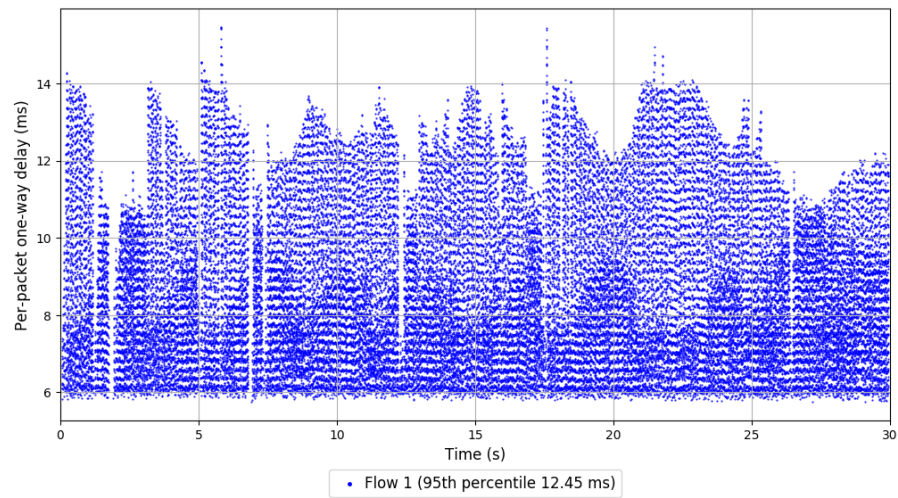
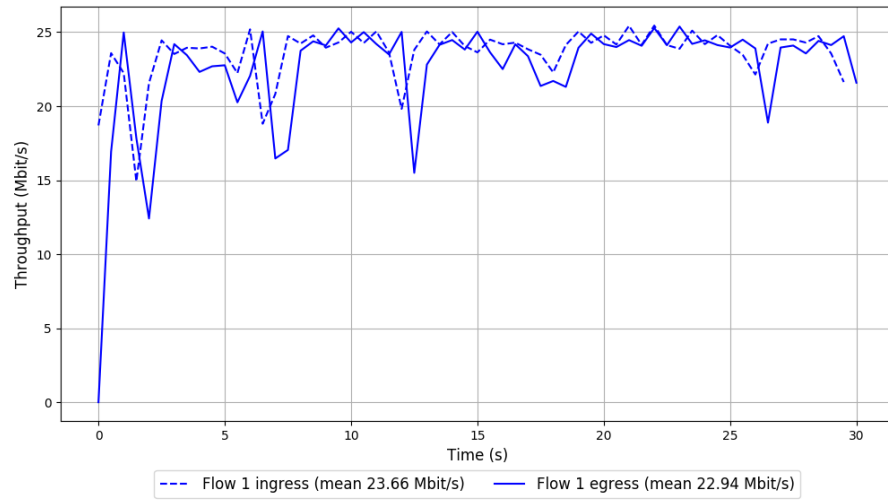


Run 4: Statistics of Sprout

Start at: 2019-03-18 20:43:04  
End at: 2019-03-18 20:43:34  
Local clock offset: -5.758 ms  
Remote clock offset: -8.141 ms

# Below is generated by plot.py at 2019-03-18 21:28:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.94 Mbit/s  
95th percentile per-packet one-way delay: 12.453 ms  
Loss rate: 3.05%  
-- Flow 1:  
Average throughput: 22.94 Mbit/s  
95th percentile per-packet one-way delay: 12.453 ms  
Loss rate: 3.05%

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

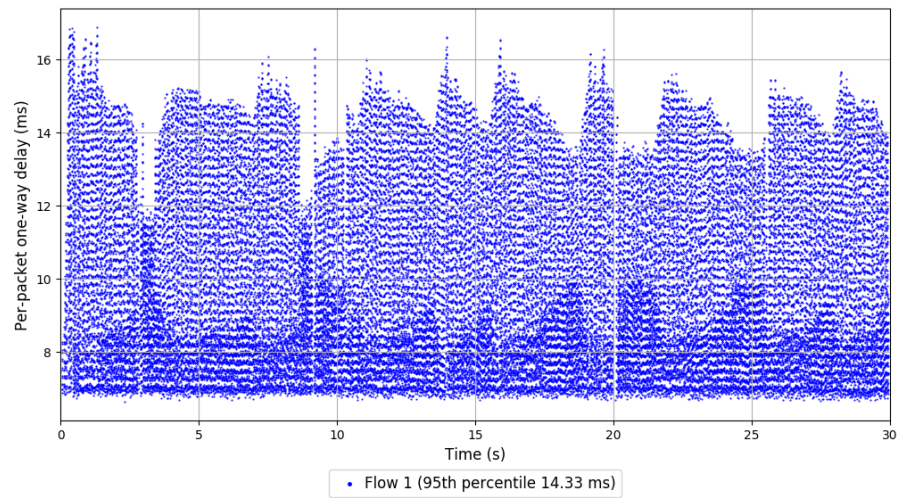
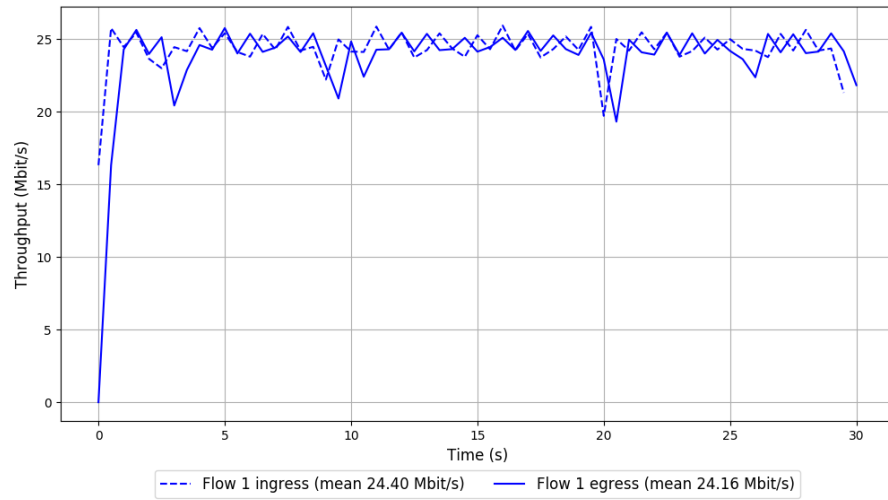


Run 5: Statistics of Sprout

Start at: 2019-03-18 21:06:30  
End at: 2019-03-18 21:07:00  
Local clock offset: -2.689 ms  
Remote clock offset: -7.014 ms

# Below is generated by plot.py at 2019-03-18 21:28:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.16 Mbit/s  
95th percentile per-packet one-way delay: 14.329 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 24.16 Mbit/s  
95th percentile per-packet one-way delay: 14.329 ms  
Loss rate: 1.00%

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



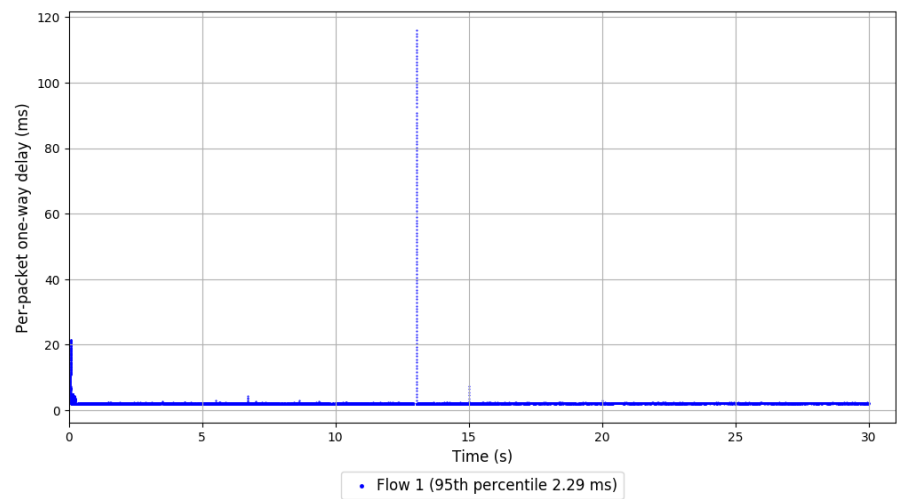
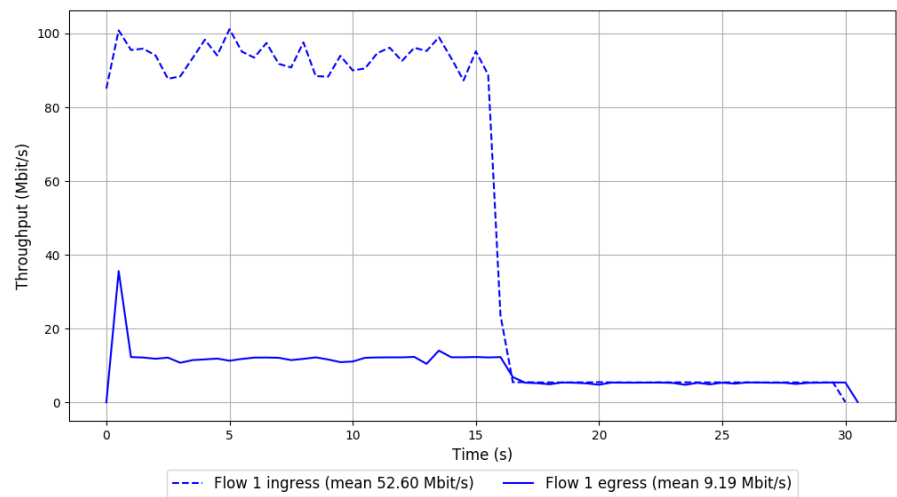


Run 1: Statistics of TaoVA-100x

Start at: 2019-03-18 19:34:05  
End at: 2019-03-18 19:34:35  
Local clock offset: -10.38 ms  
Remote clock offset: -9.234 ms

# Below is generated by plot.py at 2019-03-18 21:28:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.19 Mbit/s  
95th percentile per-packet one-way delay: 2.289 ms  
Loss rate: 82.53%  
-- Flow 1:  
Average throughput: 9.19 Mbit/s  
95th percentile per-packet one-way delay: 2.289 ms  
Loss rate: 82.53%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-18 19:58:00

End at: 2019-03-18 19:58:30

Local clock offset: -5.48 ms

Remote clock offset: -9.171 ms

# Below is generated by plot.py at 2019-03-18 21:28:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 2.035 ms

Loss rate: 74.26%

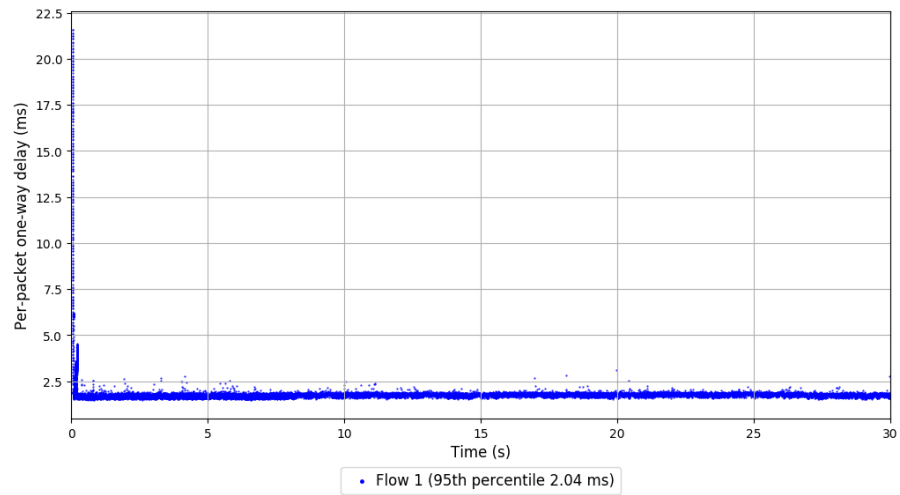
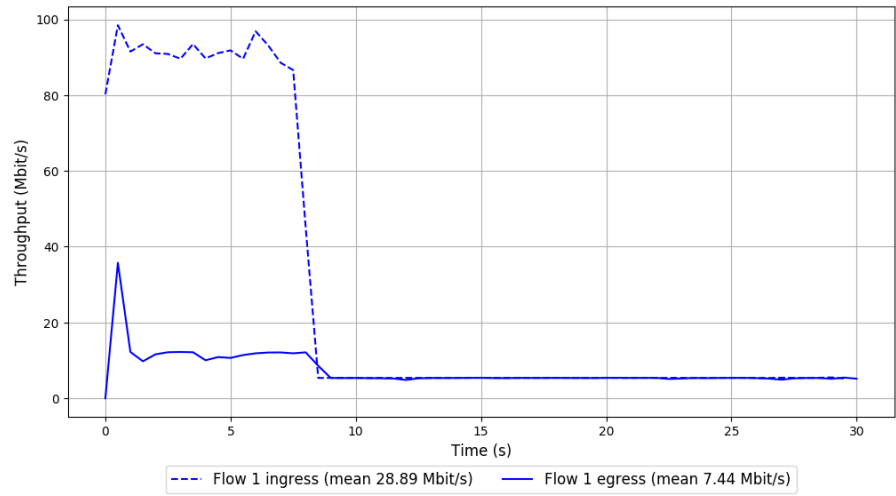
-- Flow 1:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 2.035 ms

Loss rate: 74.26%

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

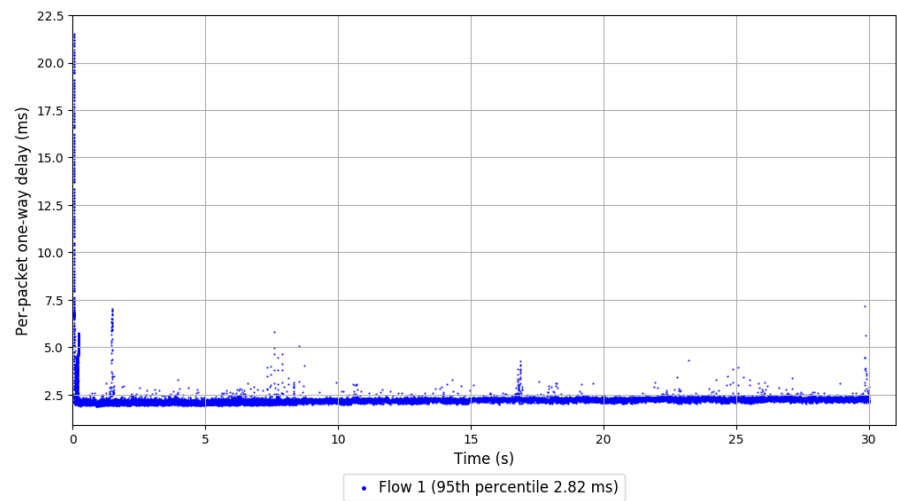
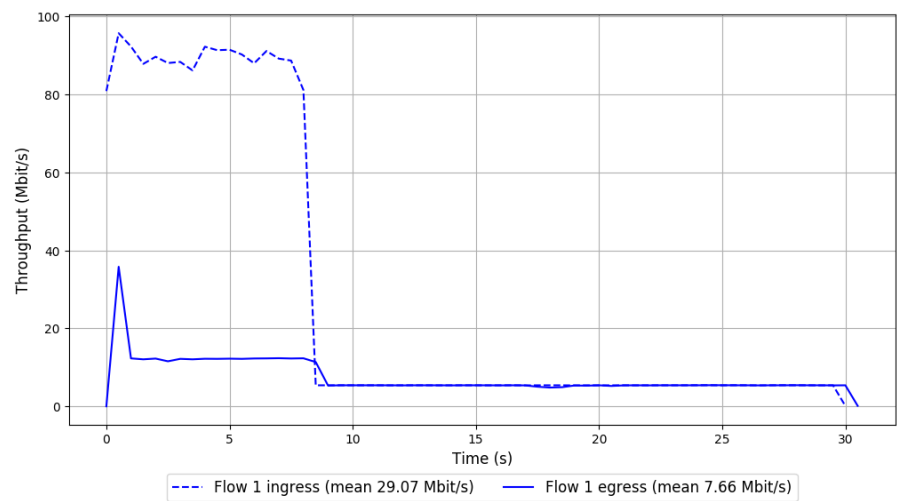


Run 3: Statistics of TaoVA-100x

Start at: 2019-03-18 20:21:41  
End at: 2019-03-18 20:22:11  
Local clock offset: -5.078 ms  
Remote clock offset: -9.559 ms

# Below is generated by plot.py at 2019-03-18 21:28:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.66 Mbit/s  
95th percentile per-packet one-way delay: 2.823 ms  
Loss rate: 73.65%  
-- Flow 1:  
Average throughput: 7.66 Mbit/s  
95th percentile per-packet one-way delay: 2.823 ms  
Loss rate: 73.65%

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

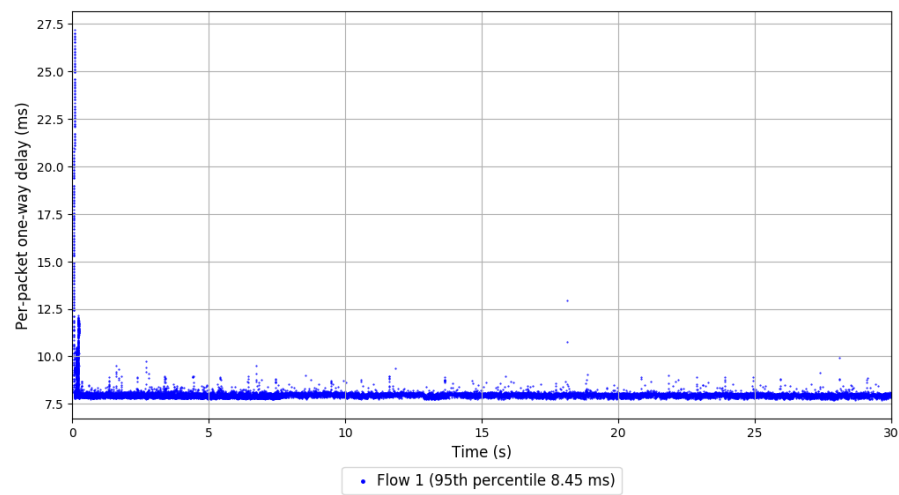
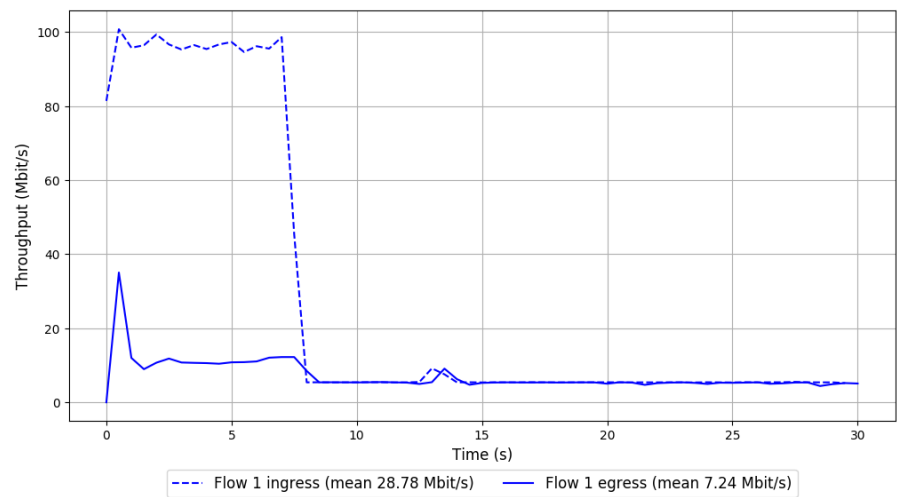


Run 4: Statistics of TaoVA-100x

Start at: 2019-03-18 20:45:14  
End at: 2019-03-18 20:45:44  
Local clock offset: -6.644 ms  
Remote clock offset: -6.829 ms

# Below is generated by plot.py at 2019-03-18 21:28:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.24 Mbit/s  
95th percentile per-packet one-way delay: 8.445 ms  
Loss rate: 74.85%  
-- Flow 1:  
Average throughput: 7.24 Mbit/s  
95th percentile per-packet one-way delay: 8.445 ms  
Loss rate: 74.85%

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



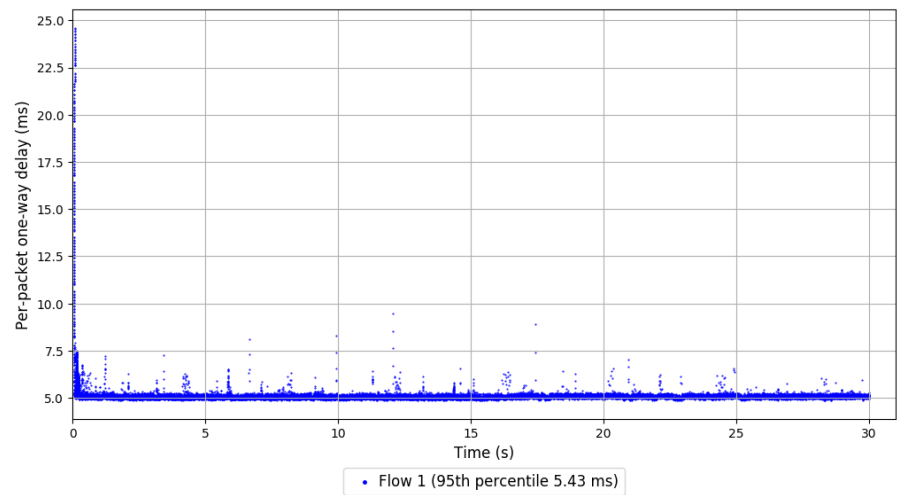
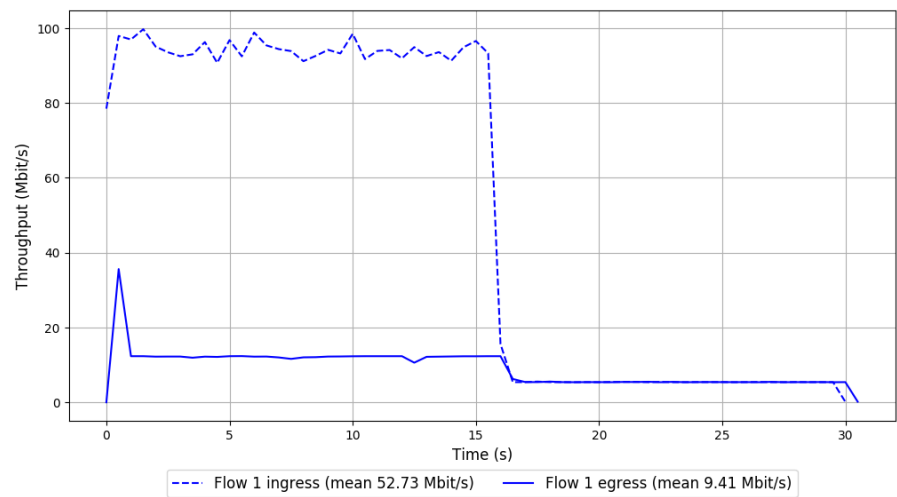


Run 5: Statistics of TaoVA-100x

Start at: 2019-03-18 21:08:40  
End at: 2019-03-18 21:09:10  
Local clock offset: -1.587 ms  
Remote clock offset: -7.511 ms

# Below is generated by plot.py at 2019-03-18 21:28:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.41 Mbit/s  
95th percentile per-packet one-way delay: 5.433 ms  
Loss rate: 82.16%  
-- Flow 1:  
Average throughput: 9.41 Mbit/s  
95th percentile per-packet one-way delay: 5.433 ms  
Loss rate: 82.16%

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

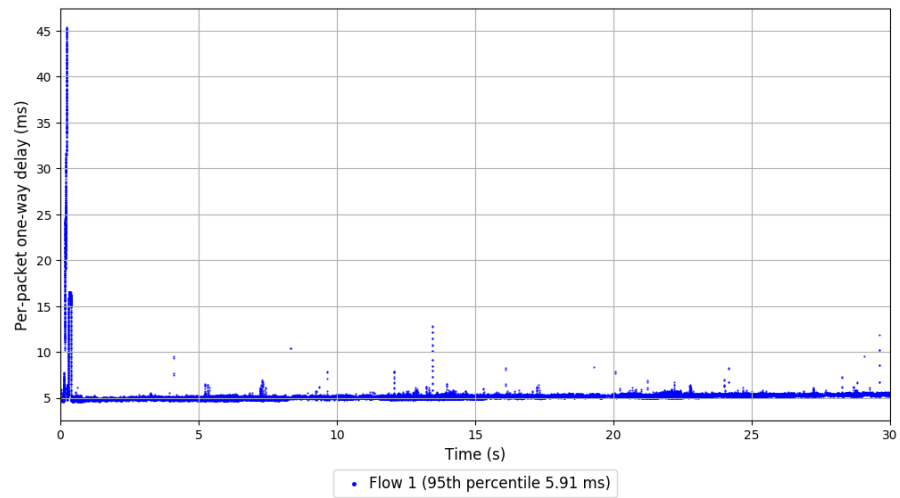
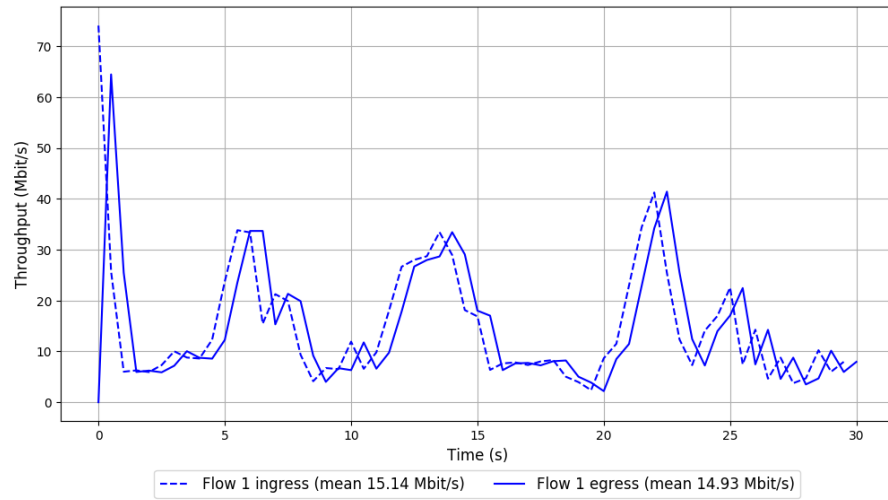


Run 1: Statistics of TCP Vegas

Start at: 2019-03-18 19:46:43  
End at: 2019-03-18 19:47:13  
Local clock offset: -13.278 ms  
Remote clock offset: -8.11 ms

# Below is generated by plot.py at 2019-03-18 21:28:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 14.93 Mbit/s  
95th percentile per-packet one-way delay: 5.910 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 14.93 Mbit/s  
95th percentile per-packet one-way delay: 5.910 ms  
Loss rate: 1.37%

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

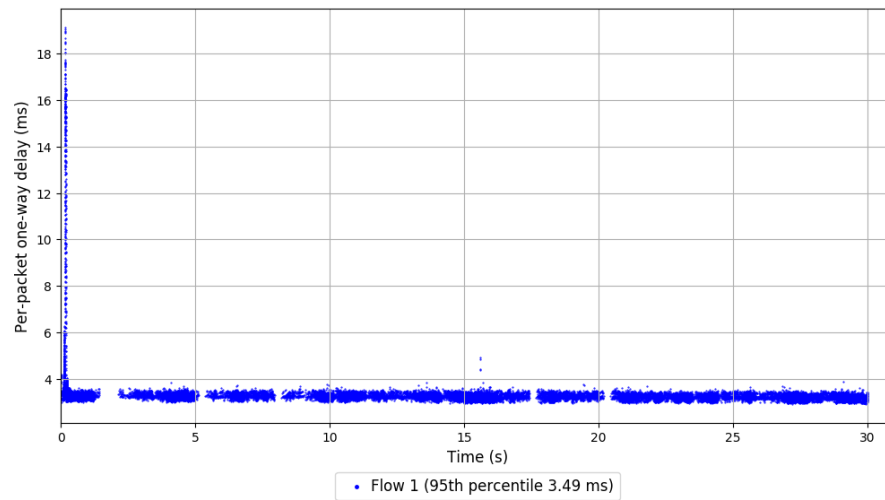
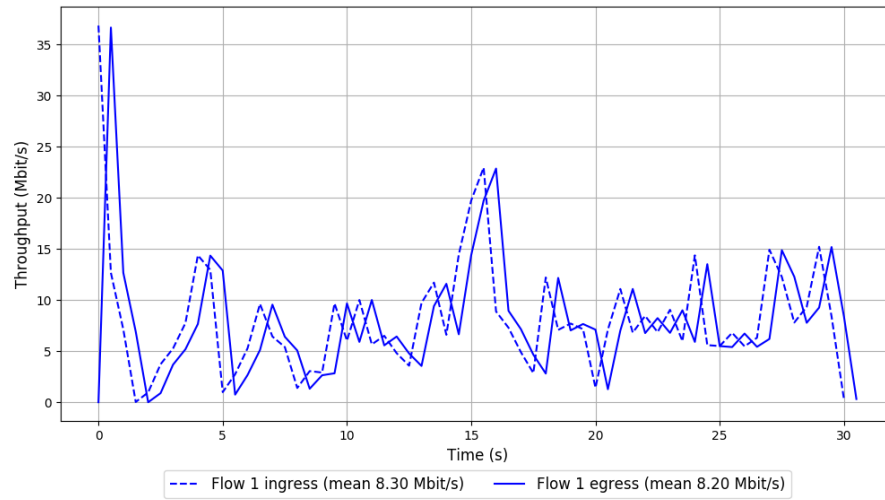


Run 2: Statistics of TCP Vegas

Start at: 2019-03-18 20:10:33  
End at: 2019-03-18 20:11:03  
Local clock offset: -8.198 ms  
Remote clock offset: -9.635 ms

# Below is generated by plot.py at 2019-03-18 21:28:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.20 Mbit/s  
95th percentile per-packet one-way delay: 3.492 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 8.20 Mbit/s  
95th percentile per-packet one-way delay: 3.492 ms  
Loss rate: 1.18%

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

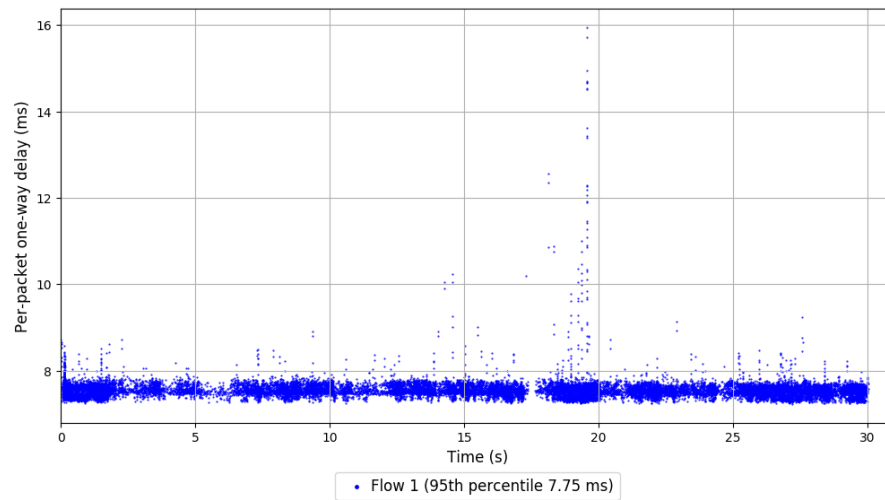
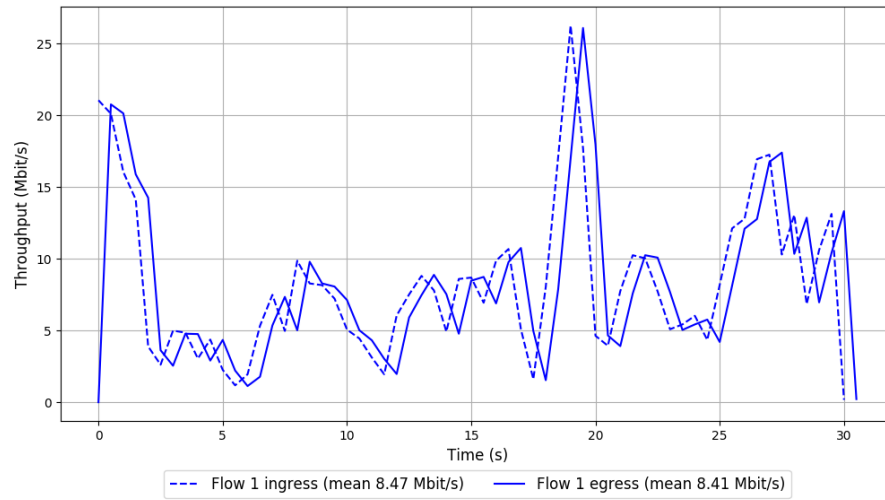


Run 3: Statistics of TCP Vegas

Start at: 2019-03-18 20:34:09  
End at: 2019-03-18 20:34:39  
Local clock offset: -5.422 ms  
Remote clock offset: -7.222 ms

# Below is generated by plot.py at 2019-03-18 21:28:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 8.41 Mbit/s  
95th percentile per-packet one-way delay: 7.747 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 8.41 Mbit/s  
95th percentile per-packet one-way delay: 7.747 ms  
Loss rate: 0.74%

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



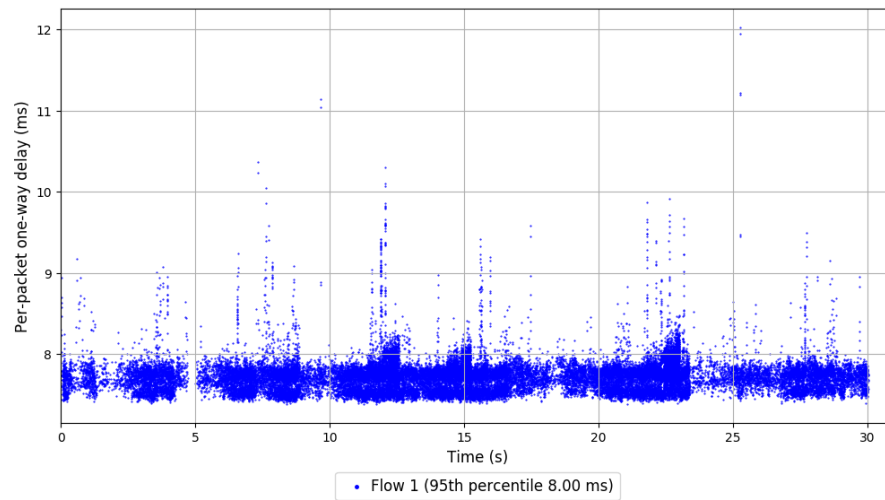
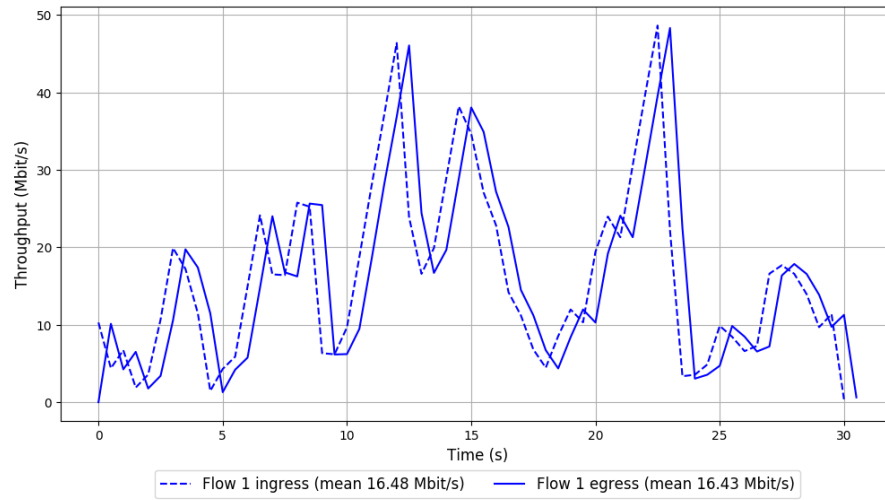


Run 4: Statistics of TCP Vegas

Start at: 2019-03-18 20:57:35  
End at: 2019-03-18 20:58:05  
Local clock offset: -3.793 ms  
Remote clock offset: -7.393 ms

# Below is generated by plot.py at 2019-03-18 21:28:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 16.43 Mbit/s  
95th percentile per-packet one-way delay: 7.996 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 16.43 Mbit/s  
95th percentile per-packet one-way delay: 7.996 ms  
Loss rate: 0.33%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-03-18 21:21:05

End at: 2019-03-18 21:21:35

Local clock offset: -2.978 ms

Remote clock offset: -7.38 ms

# Below is generated by plot.py at 2019-03-18 21:28:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.61 Mbit/s

95th percentile per-packet one-way delay: 6.385 ms

Loss rate: 0.60%

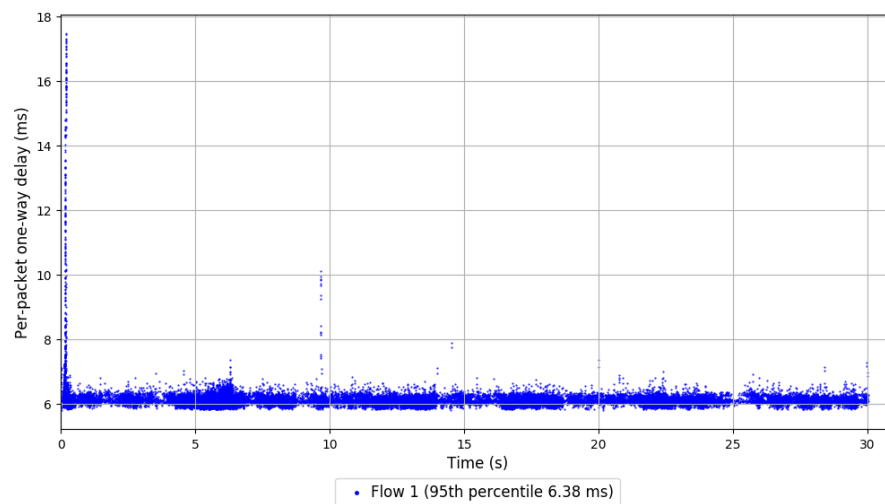
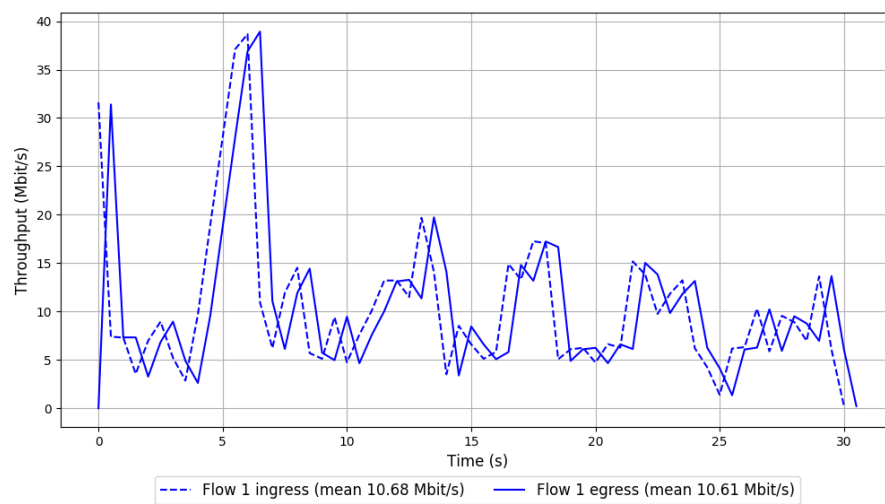
-- Flow 1:

Average throughput: 10.61 Mbit/s

95th percentile per-packet one-way delay: 6.385 ms

Loss rate: 0.60%

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

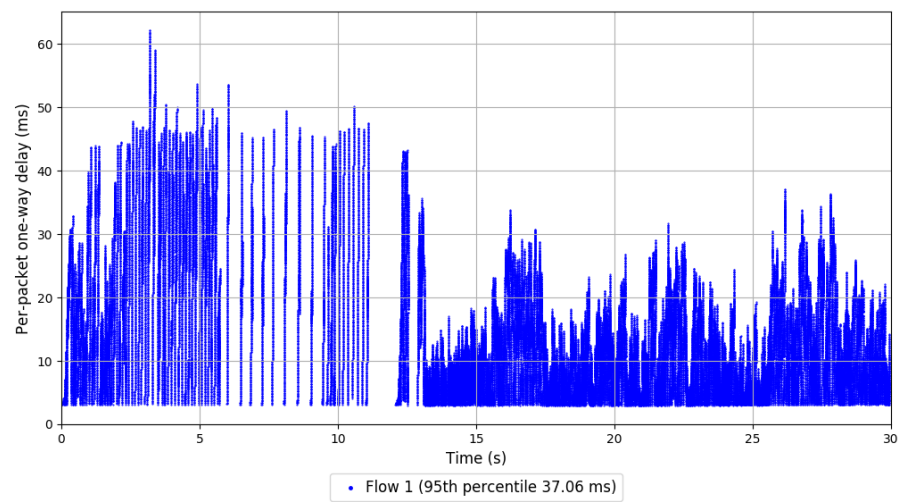
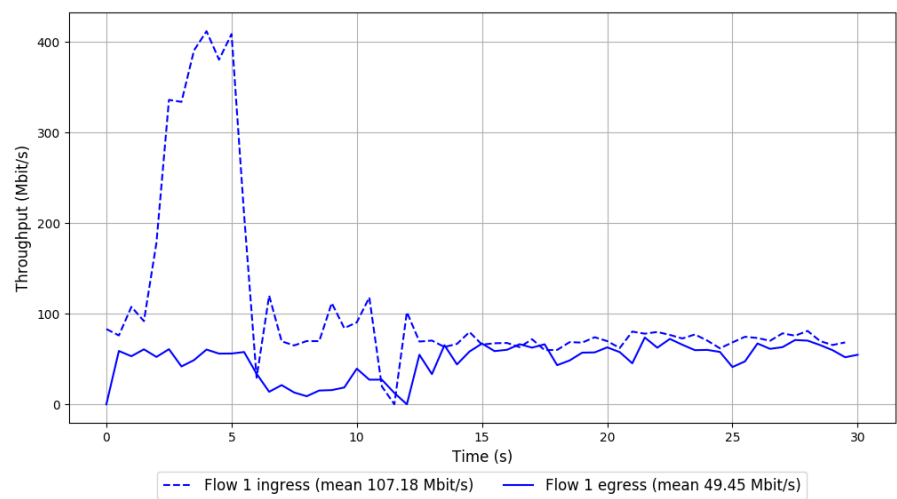


Run 1: Statistics of Verus

Start at: 2019-03-18 19:45:33  
End at: 2019-03-18 19:46:03  
Local clock offset: -12.943 ms  
Remote clock offset: -8.437 ms

# Below is generated by plot.py at 2019-03-18 21:29:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 49.45 Mbit/s  
95th percentile per-packet one-way delay: 37.060 ms  
Loss rate: 53.85%  
-- Flow 1:  
Average throughput: 49.45 Mbit/s  
95th percentile per-packet one-way delay: 37.060 ms  
Loss rate: 53.85%

Run 1: Report of Verus — Data Link

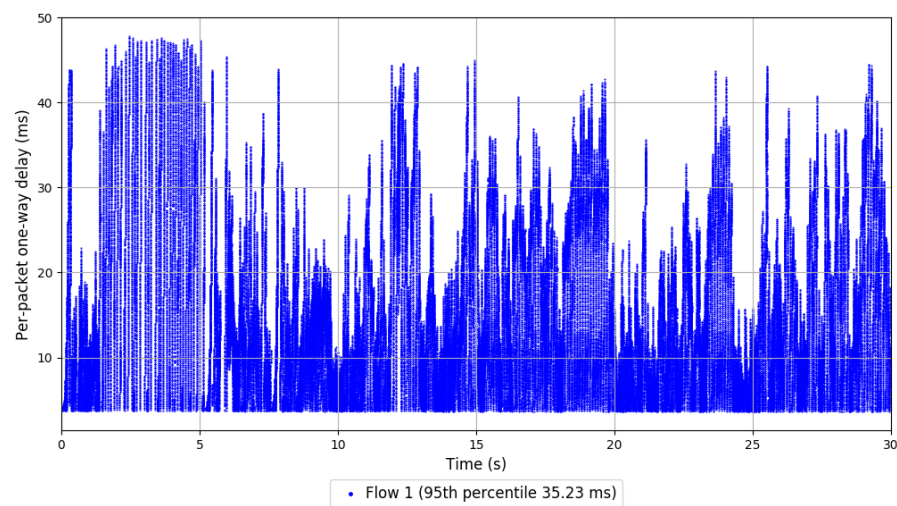
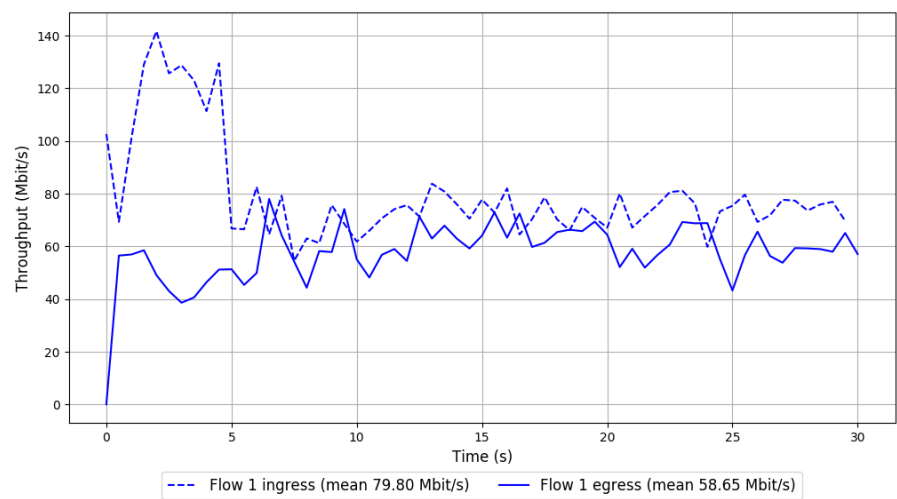


Run 2: Statistics of Verus

Start at: 2019-03-18 20:09:23  
End at: 2019-03-18 20:09:53  
Local clock offset: -8.301 ms  
Remote clock offset: -9.213 ms

# Below is generated by plot.py at 2019-03-18 21:29:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 58.65 Mbit/s  
95th percentile per-packet one-way delay: 35.234 ms  
Loss rate: 26.48%  
-- Flow 1:  
Average throughput: 58.65 Mbit/s  
95th percentile per-packet one-way delay: 35.234 ms  
Loss rate: 26.48%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-03-18 20:33:00

End at: 2019-03-18 20:33:30

Local clock offset: -5.919 ms

Remote clock offset: -7.99 ms

# Below is generated by plot.py at 2019-03-18 21:29:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 39.073 ms

Loss rate: 30.38%

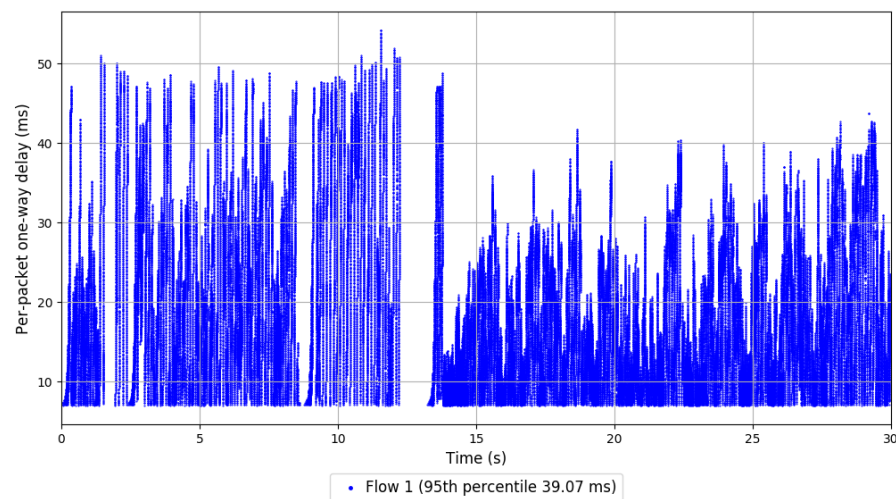
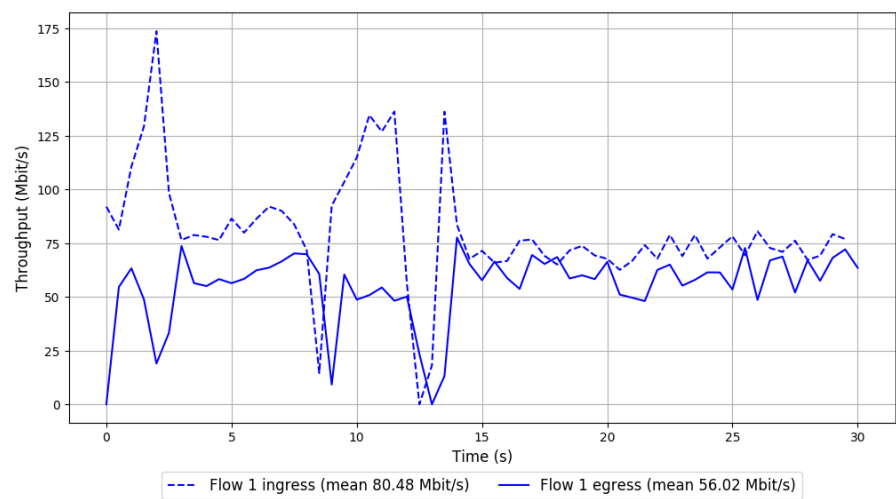
-- Flow 1:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 39.073 ms

Loss rate: 30.38%

Run 3: Report of Verus — Data Link

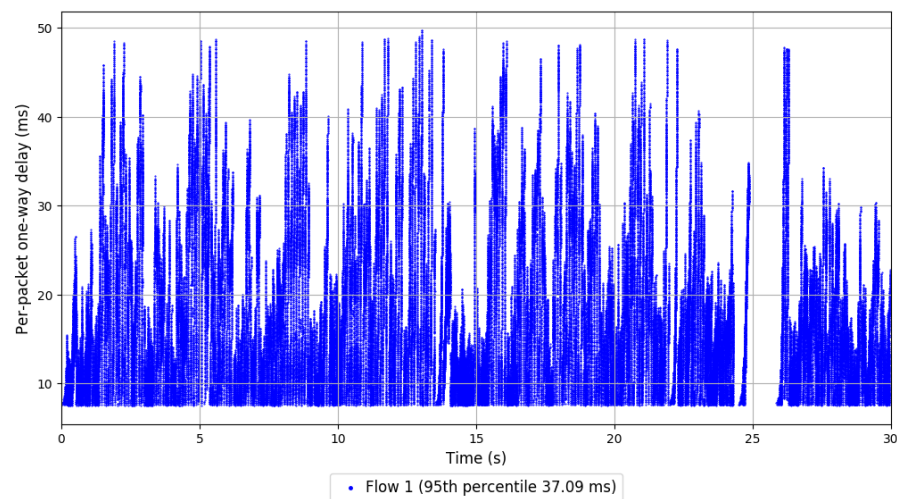
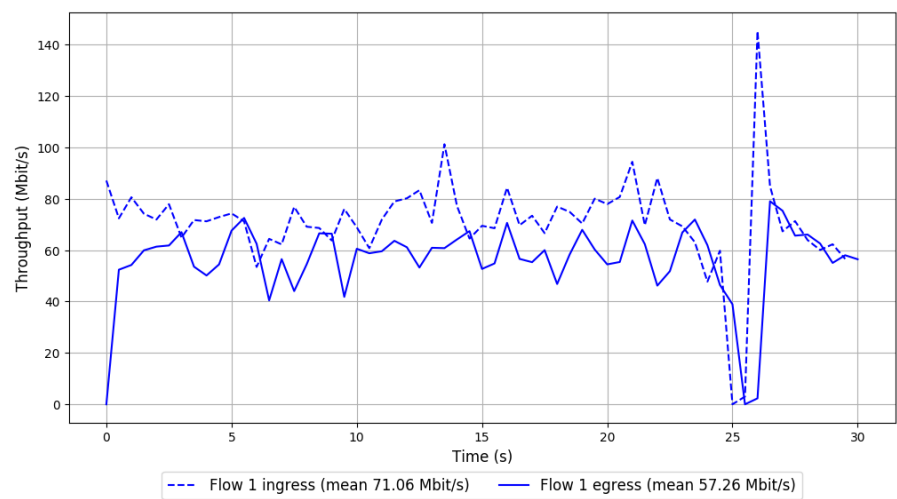


Run 4: Statistics of Verus

Start at: 2019-03-18 20:56:26  
End at: 2019-03-18 20:56:56  
Local clock offset: -3.624 ms  
Remote clock offset: -7.004 ms

# Below is generated by plot.py at 2019-03-18 21:29:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.26 Mbit/s  
95th percentile per-packet one-way delay: 37.085 ms  
Loss rate: 19.38%  
-- Flow 1:  
Average throughput: 57.26 Mbit/s  
95th percentile per-packet one-way delay: 37.085 ms  
Loss rate: 19.38%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-18 21:19:55

End at: 2019-03-18 21:20:25

Local clock offset: -0.863 ms

Remote clock offset: -7.33 ms

# Below is generated by plot.py at 2019-03-18 21:29:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.99 Mbit/s

95th percentile per-packet one-way delay: 39.118 ms

Loss rate: 26.29%

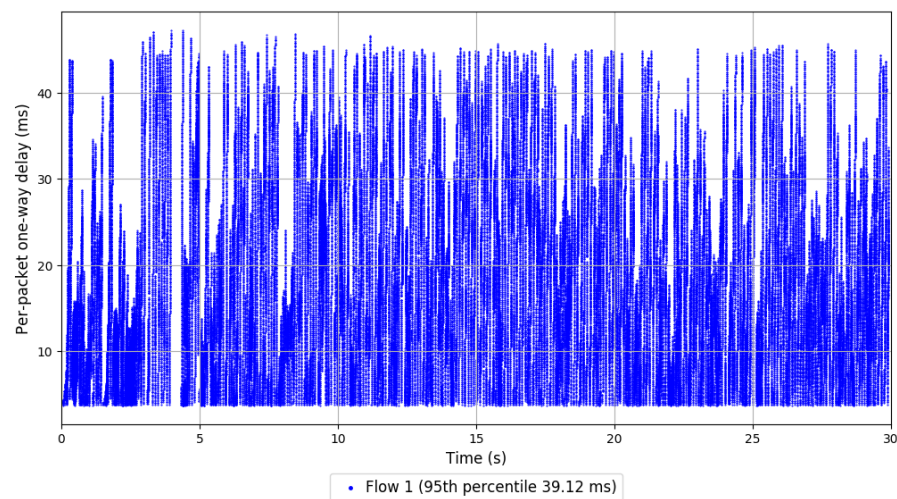
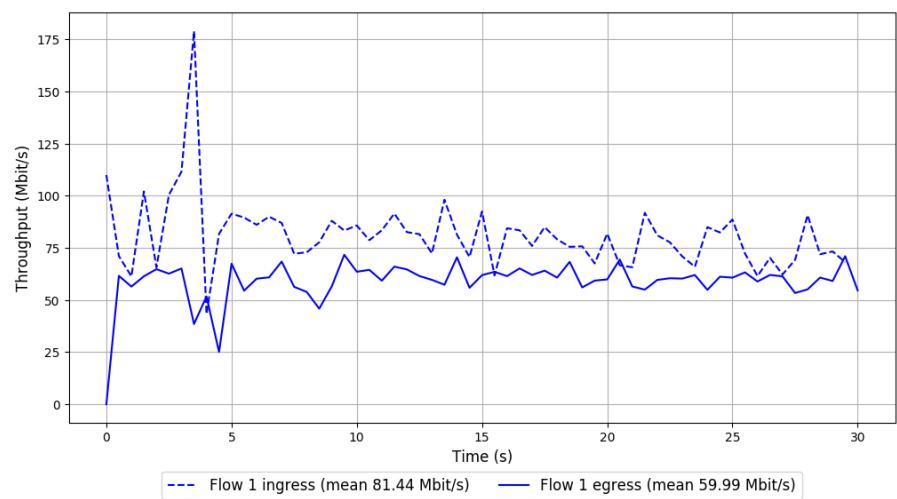
-- Flow 1:

Average throughput: 59.99 Mbit/s

95th percentile per-packet one-way delay: 39.118 ms

Loss rate: 26.29%

Run 5: Report of Verus — Data Link

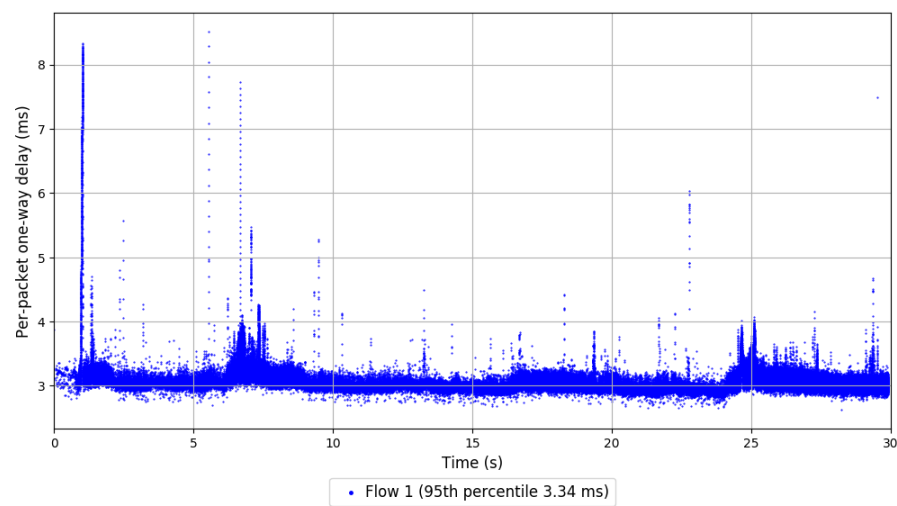
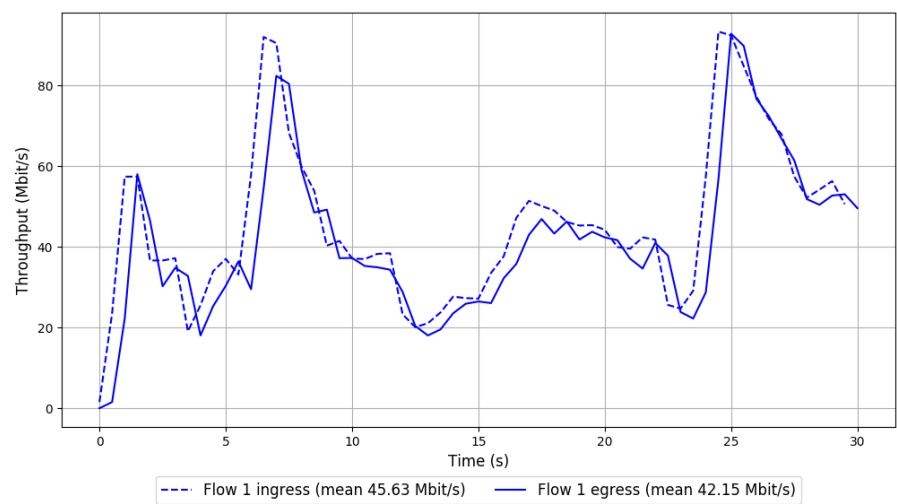


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-18 19:44:24  
End at: 2019-03-18 19:44:54  
Local clock offset: -12.049 ms  
Remote clock offset: -7.939 ms

# Below is generated by plot.py at 2019-03-18 21:29:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 42.15 Mbit/s  
95th percentile per-packet one-way delay: 3.341 ms  
Loss rate: 7.63%  
-- Flow 1:  
Average throughput: 42.15 Mbit/s  
95th percentile per-packet one-way delay: 3.341 ms  
Loss rate: 7.63%

Run 1: Report of PCC-Vivace — Data Link



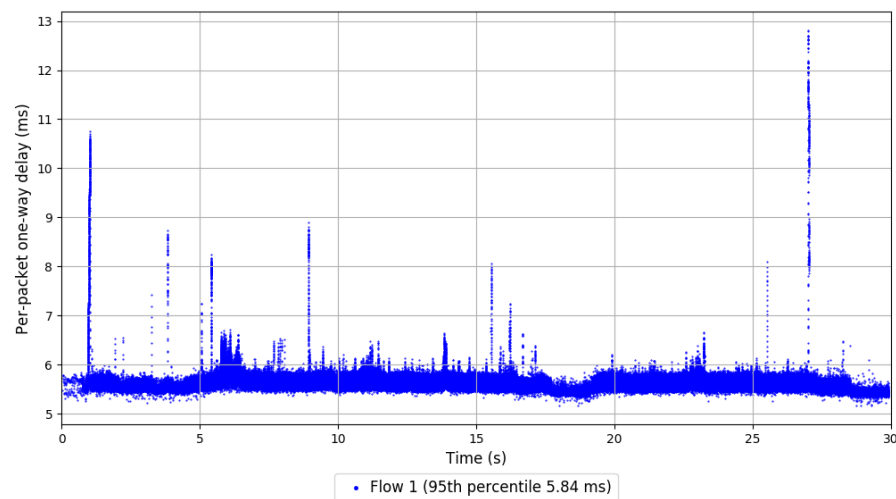
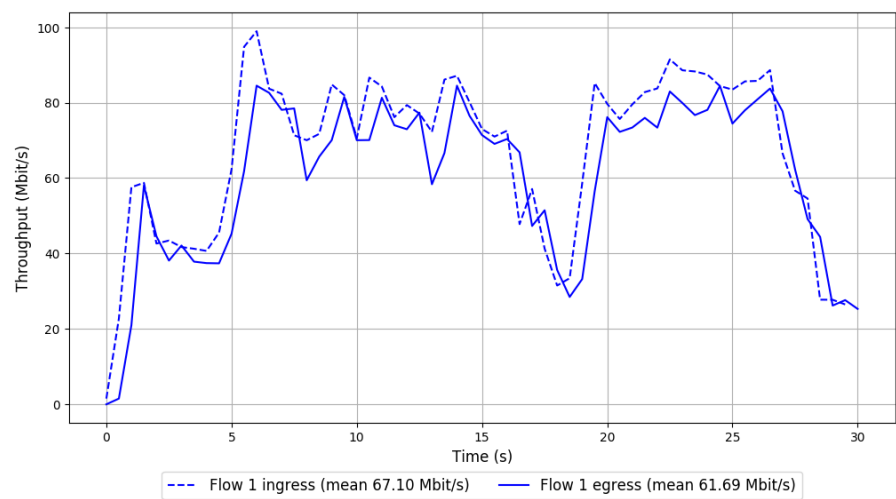


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-18 20:08:09  
End at: 2019-03-18 20:08:39  
Local clock offset: -9.415 ms  
Remote clock offset: -8.839 ms

# Below is generated by plot.py at 2019-03-18 21:29:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 61.69 Mbit/s  
95th percentile per-packet one-way delay: 5.840 ms  
Loss rate: 8.07%  
-- Flow 1:  
Average throughput: 61.69 Mbit/s  
95th percentile per-packet one-way delay: 5.840 ms  
Loss rate: 8.07%

Run 2: Report of PCC-Vivace — Data Link

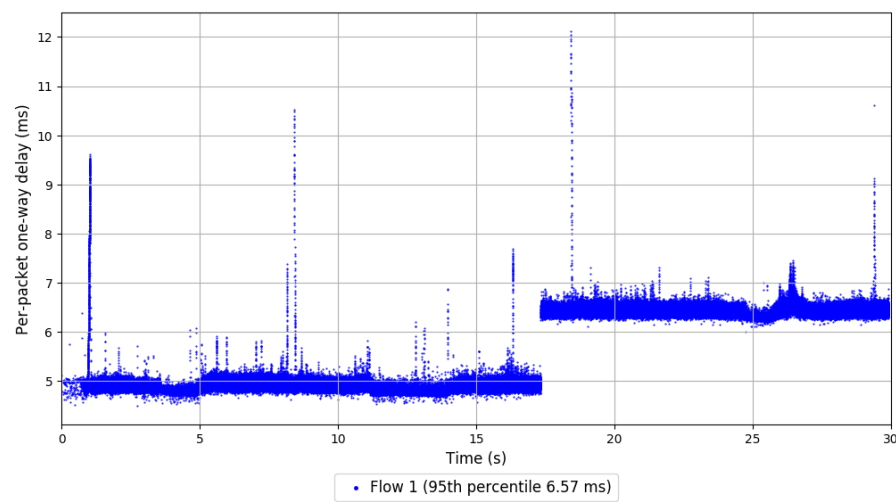
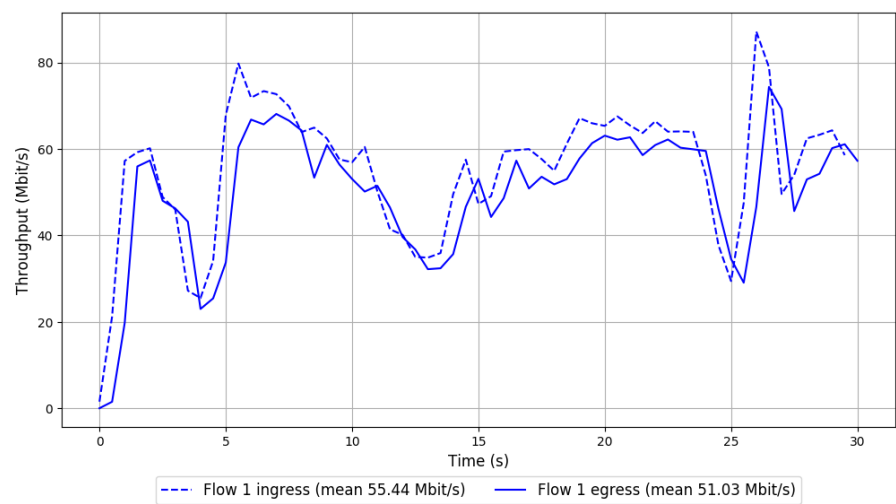


Run 3: Statistics of PCC-Vivace

Start at: 2019-03-18 20:31:50  
End at: 2019-03-18 20:32:20  
Local clock offset: -5.541 ms  
Remote clock offset: -8.389 ms

# Below is generated by plot.py at 2019-03-18 21:29:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 51.03 Mbit/s  
95th percentile per-packet one-way delay: 6.573 ms  
Loss rate: 7.95%  
-- Flow 1:  
Average throughput: 51.03 Mbit/s  
95th percentile per-packet one-way delay: 6.573 ms  
Loss rate: 7.95%

Run 3: Report of PCC-Vivace — Data Link

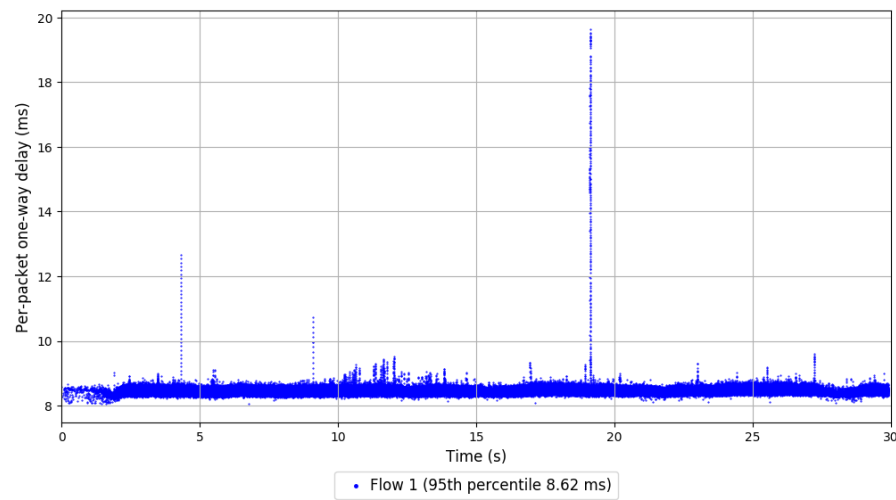
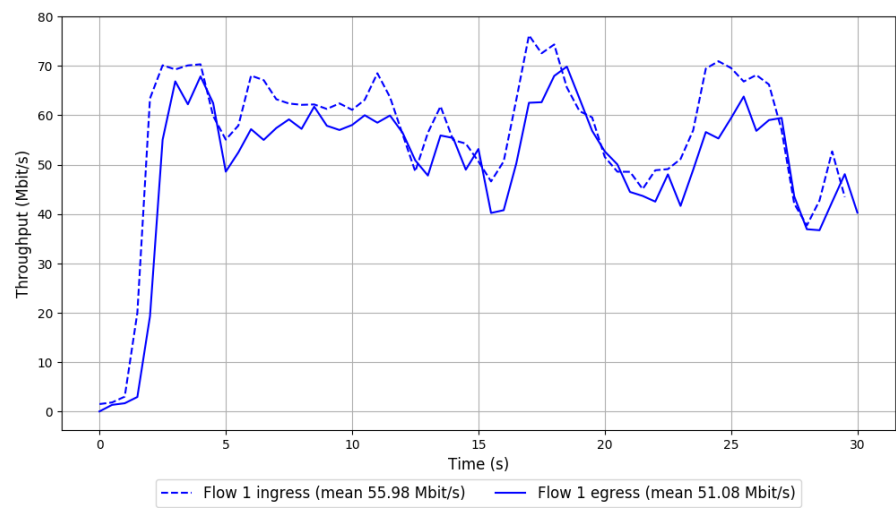


Run 4: Statistics of PCC-Vivace

Start at: 2019-03-18 20:55:18  
End at: 2019-03-18 20:55:48  
Local clock offset: -4.327 ms  
Remote clock offset: -6.898 ms

# Below is generated by plot.py at 2019-03-18 21:29:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 51.08 Mbit/s  
95th percentile per-packet one-way delay: 8.616 ms  
Loss rate: 8.77%  
-- Flow 1:  
Average throughput: 51.08 Mbit/s  
95th percentile per-packet one-way delay: 8.616 ms  
Loss rate: 8.77%

Run 4: Report of PCC-Vivace — Data Link

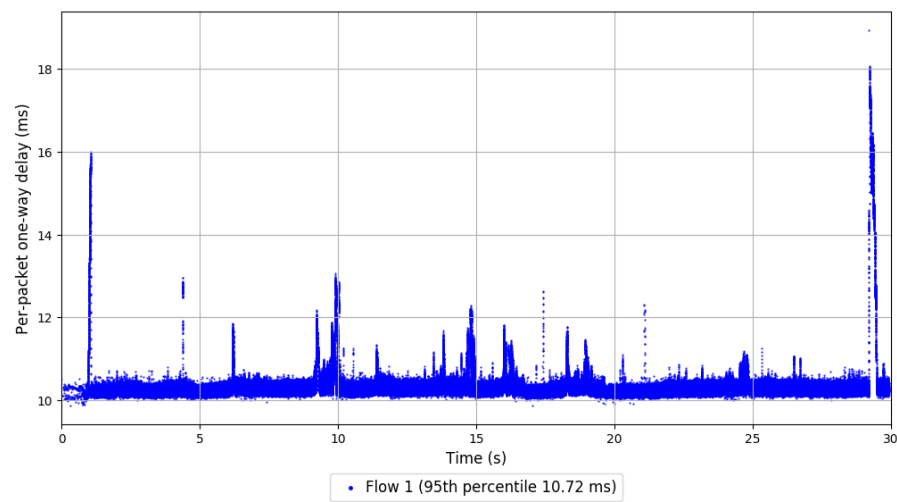
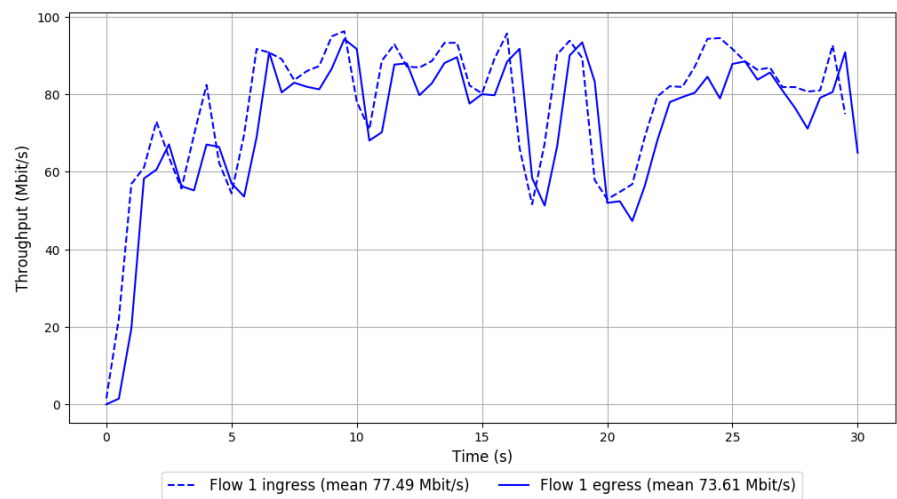


Run 5: Statistics of PCC-Vivace

Start at: 2019-03-18 21:18:46  
End at: 2019-03-18 21:19:16  
Local clock offset: -10.267 ms  
Remote clock offset: -10.436 ms

# Below is generated by plot.py at 2019-03-18 21:29:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.61 Mbit/s  
95th percentile per-packet one-way delay: 10.725 ms  
Loss rate: 5.00%  
-- Flow 1:  
Average throughput: 73.61 Mbit/s  
95th percentile per-packet one-way delay: 10.725 ms  
Loss rate: 5.00%

Run 5: Report of PCC-Vivace — Data Link



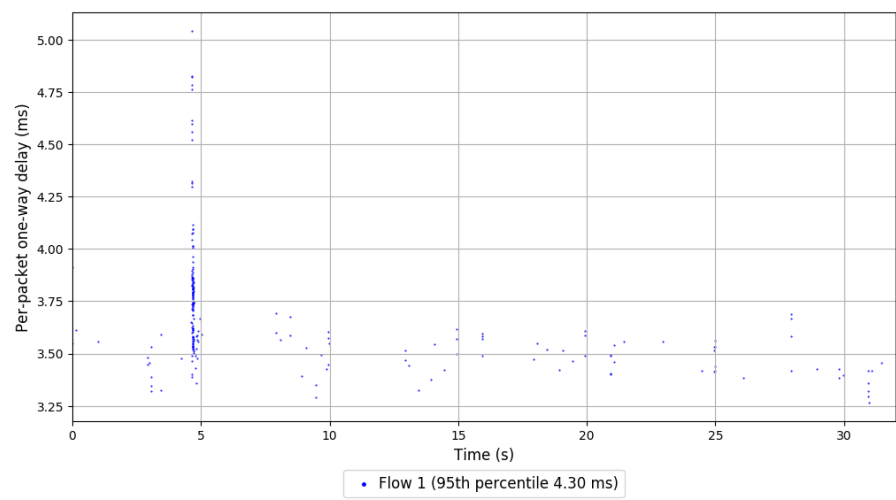
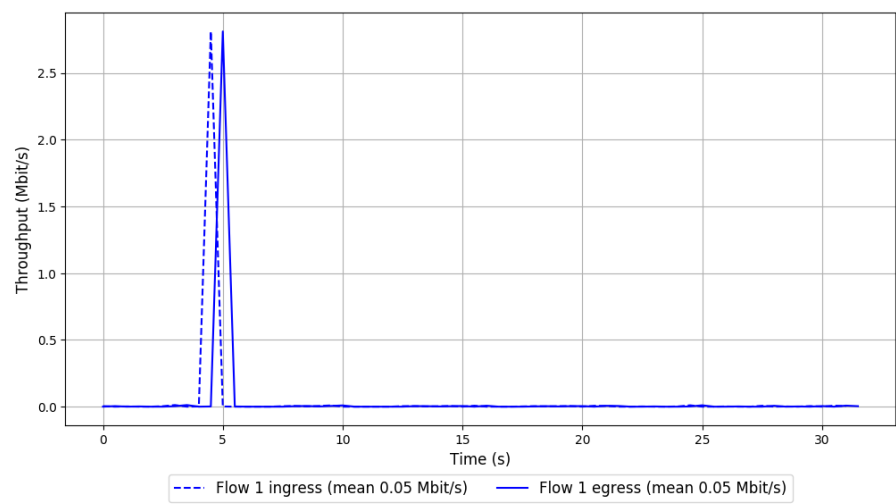


Run 1: Statistics of WebRTC media

Start at: 2019-03-18 19:43:20  
End at: 2019-03-18 19:43:50  
Local clock offset: -12.103 ms  
Remote clock offset: -7.742 ms

# Below is generated by plot.py at 2019-03-18 21:29:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 4.299 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 4.299 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

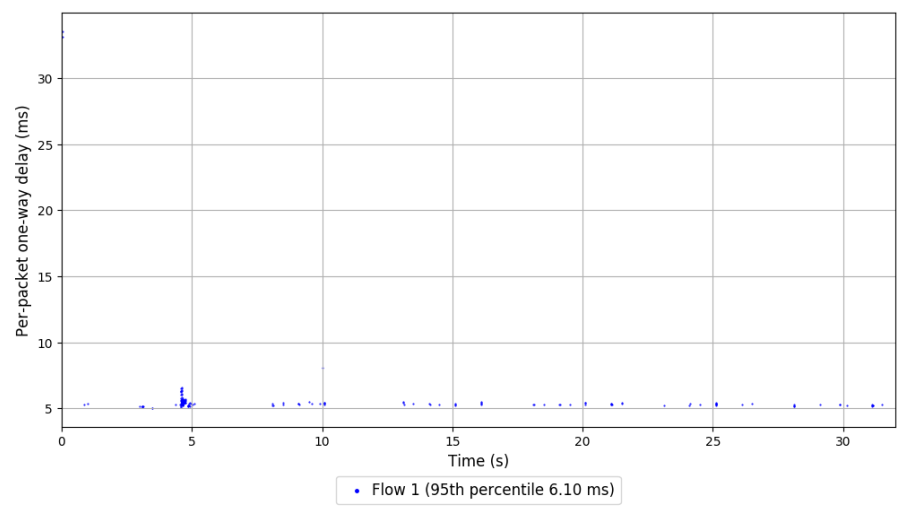
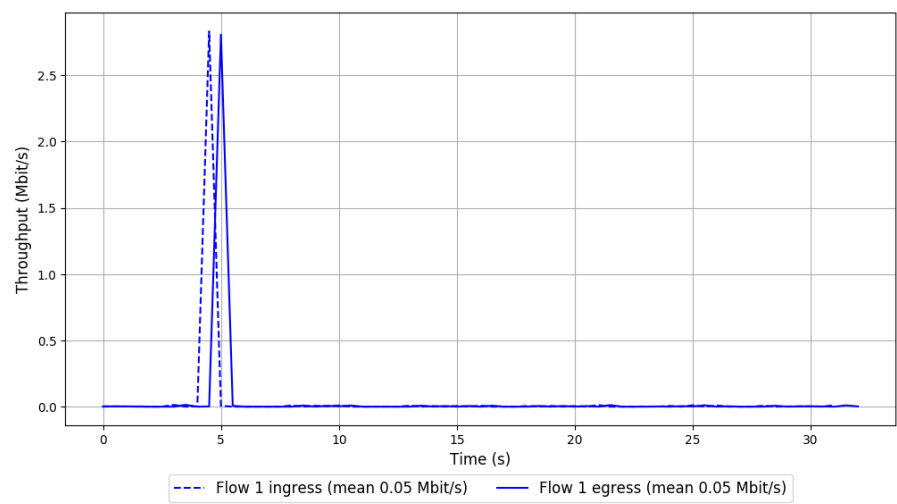


Run 2: Statistics of WebRTC media

Start at: 2019-03-18 20:07:04  
End at: 2019-03-18 20:07:34  
Local clock offset: -8.643 ms  
Remote clock offset: -8.342 ms

# Below is generated by plot.py at 2019-03-18 21:29:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 6.097 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 6.097 ms  
Loss rate: 1.01%

Run 2: Report of WebRTC media — Data Link

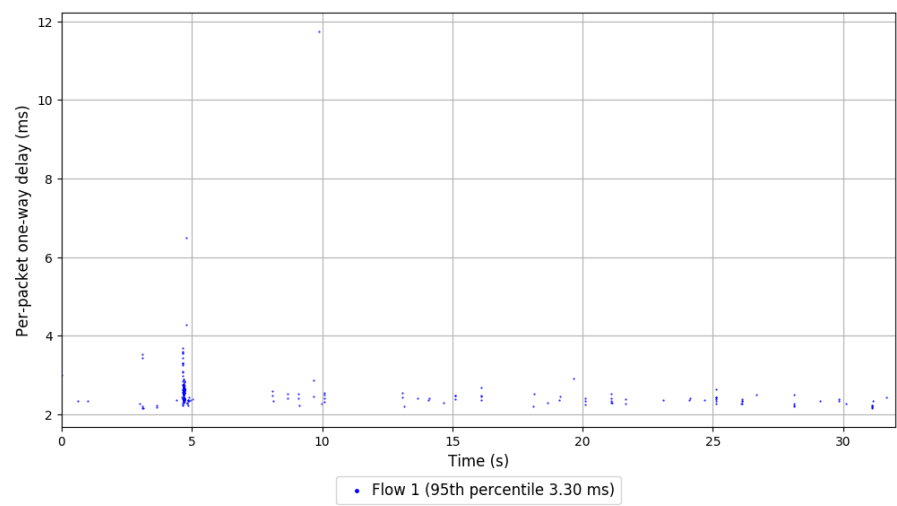
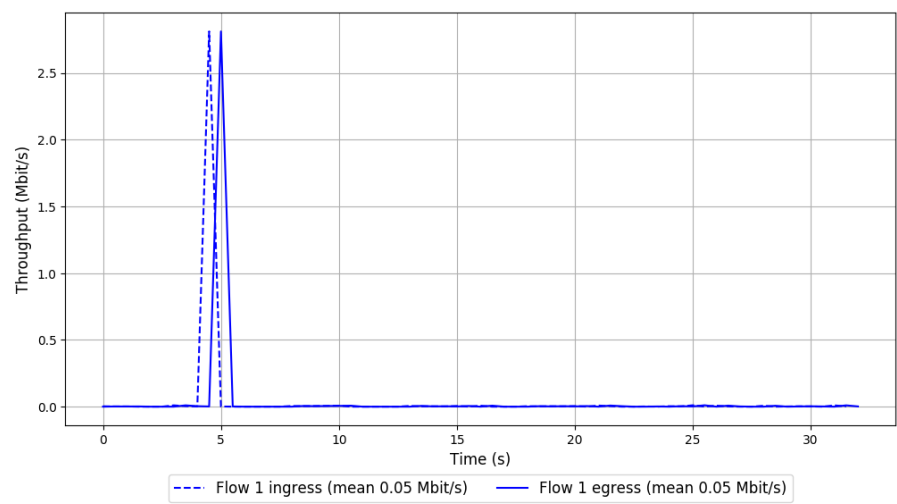


Run 3: Statistics of WebRTC media

Start at: 2019-03-18 20:30:46  
End at: 2019-03-18 20:31:16  
Local clock offset: -3.696 ms  
Remote clock offset: -8.972 ms

# Below is generated by plot.py at 2019-03-18 21:29:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.301 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.301 ms  
Loss rate: 0.04%

Run 3: Report of WebRTC media — Data Link

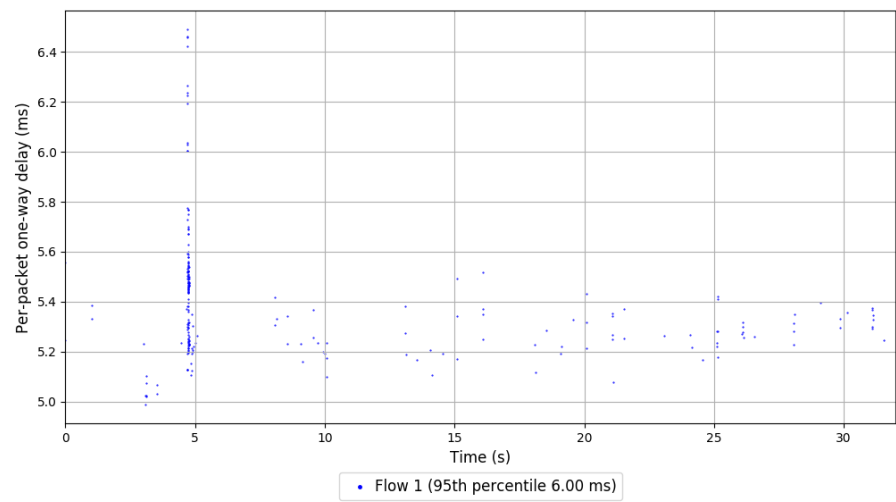
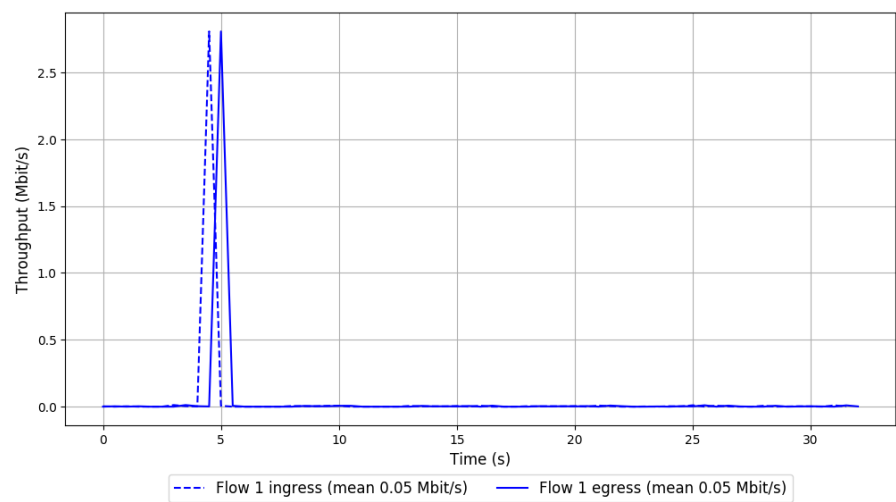


Run 4: Statistics of WebRTC media

Start at: 2019-03-18 20:54:13  
End at: 2019-03-18 20:54:43  
Local clock offset: -1.829 ms  
Remote clock offset: -7.257 ms

# Below is generated by plot.py at 2019-03-18 21:29:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 6.002 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 6.002 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-03-18 21:17:41

End at: 2019-03-18 21:18:11

Local clock offset: -3.084 ms

Remote clock offset: -6.46 ms

# Below is generated by plot.py at 2019-03-18 21:29:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 7.480 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 7.480 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

