

## Pantheon Report

Generated at 2019-04-23 22:02:43 (UTC).

Data path: GCE London on *ens4 (remote)* → GCE Tokyo on *ens4 (local)*.

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

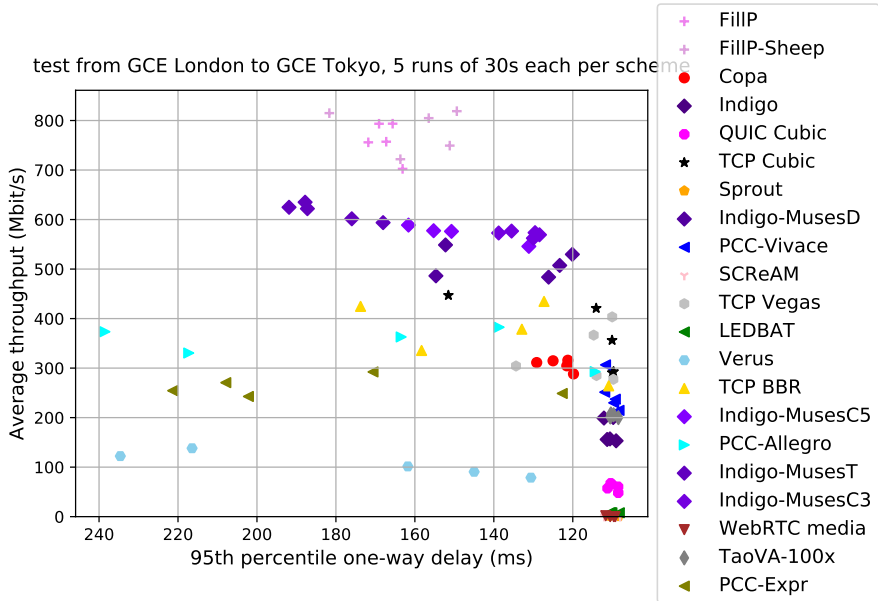
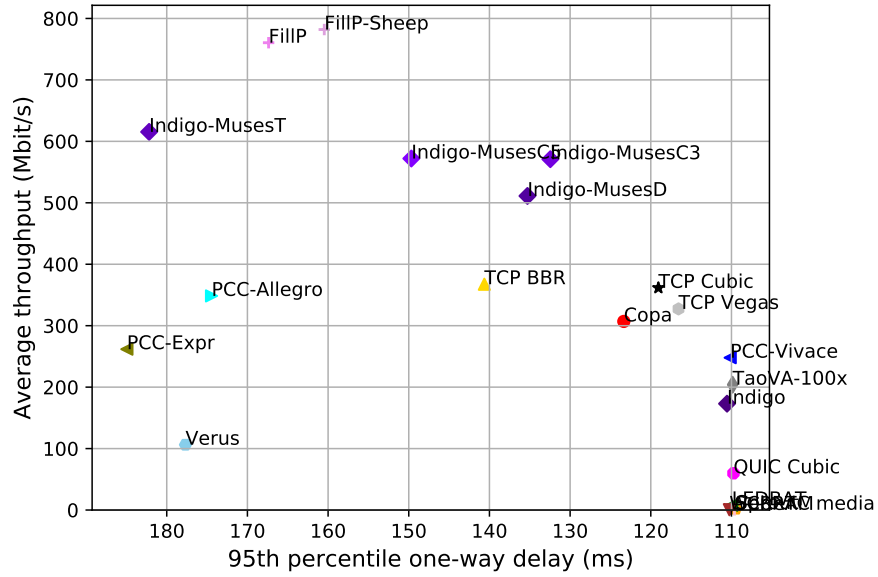
```
Linux 4.15.0-1028-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 GCE London to GCE Tokyo, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	367.52	140.63	0.64
Copa	5	306.94	123.35	0.81
TCP Cubic	5	361.54	119.06	0.77
FillP	5	760.52	167.37	1.98
FillP-Sheep	5	781.96	160.47	1.64
Indigo	5	173.07	110.55	0.75
Indigo-MusesC3	5	570.94	132.45	0.86
Indigo-MusesC5	4	572.06	149.68	0.94
Indigo-MusesD	5	511.15	135.29	0.68
Indigo-MusesT	5	615.41	182.19	0.98
LEDBAT	5	7.77	109.96	1.47
PCC-Allegro	5	348.47	174.44	1.73
PCC-Expr	5	261.77	184.94	1.76
QUIC Cubic	5	59.84	109.75	1.09
SReAM	5	0.22	109.63	0.74
Sprout	5	1.71	109.48	0.60
TaoVA-100x	5	203.97	109.86	0.75
TCP Vegas	5	327.30	116.56	0.77
Verus	5	106.25	177.68	1.86
PCC-Vivace	5	247.93	110.16	0.88
WebRTC media	4	0.50	110.26	0.23

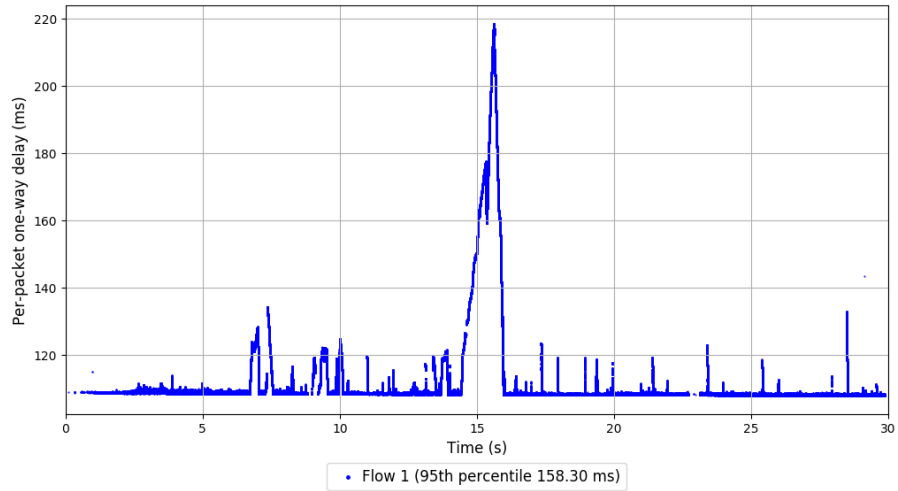
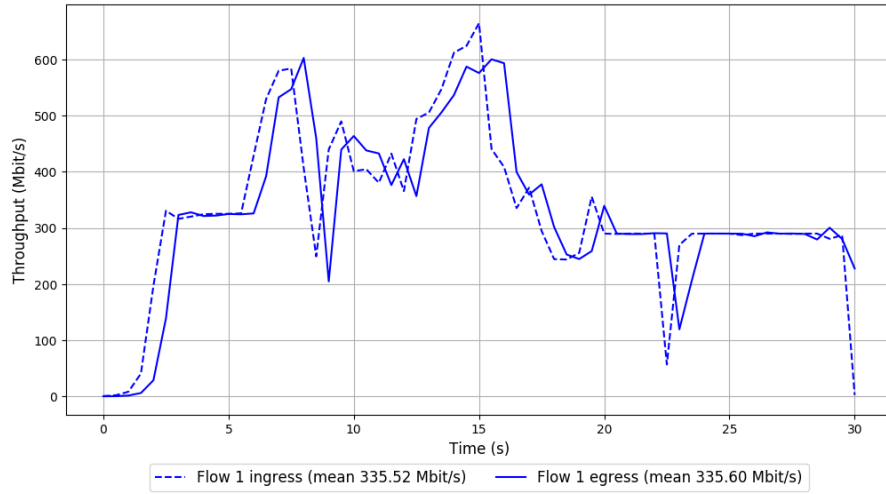


Run 1: Statistics of TCP BBR

Start at: 2019-04-23 18:15:59  
End at: 2019-04-23 18:16:29  
Local clock offset: 22.587 ms  
Remote clock offset: -0.596 ms

# Below is generated by plot.py at 2019-04-23 20:37:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 335.60 Mbit/s  
95th percentile per-packet one-way delay: 158.302 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 335.60 Mbit/s  
95th percentile per-packet one-way delay: 158.302 ms  
Loss rate: 0.71%

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

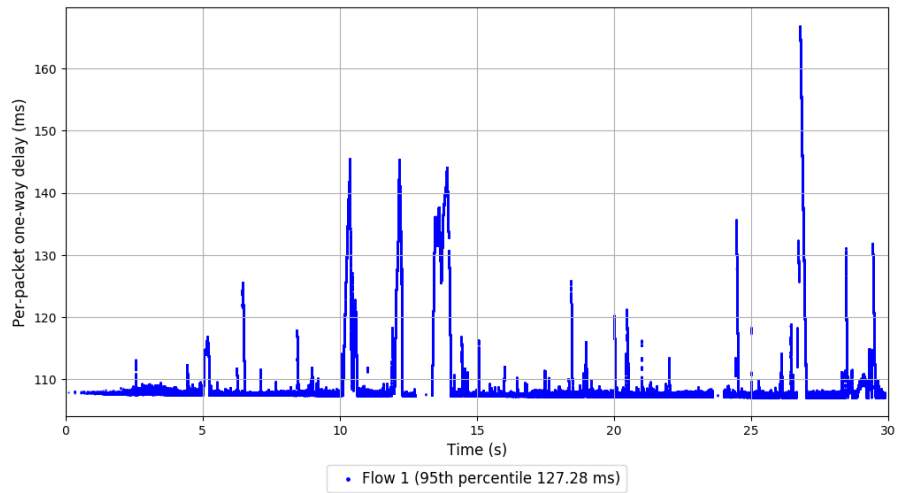
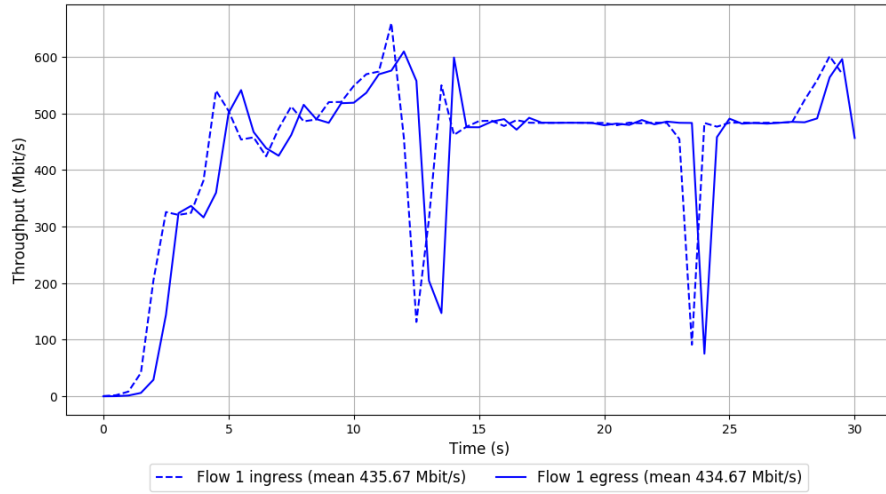


Run 2: Statistics of TCP BBR

Start at: 2019-04-23 18:46:51  
End at: 2019-04-23 18:47:21  
Local clock offset: 32.963 ms  
Remote clock offset: -0.347 ms

# Below is generated by plot.py at 2019-04-23 20:39:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 434.67 Mbit/s  
95th percentile per-packet one-way delay: 127.281 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 434.67 Mbit/s  
95th percentile per-packet one-way delay: 127.281 ms  
Loss rate: 0.96%

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

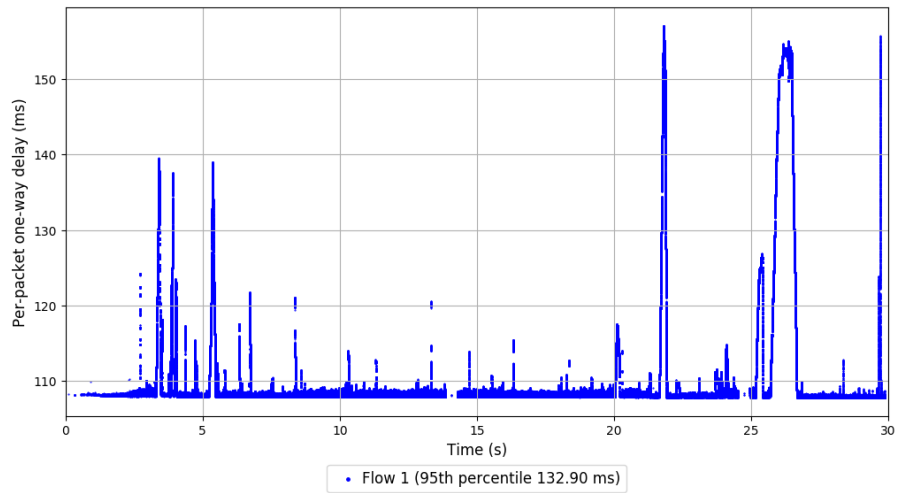
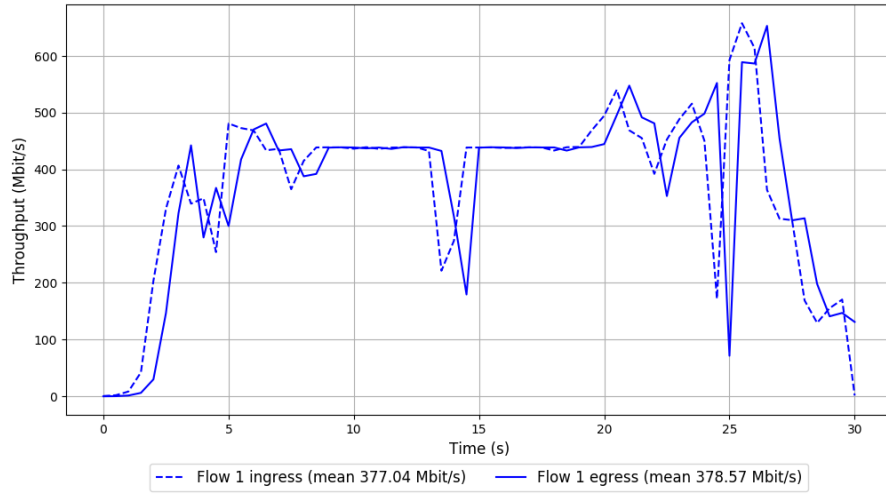


Run 3: Statistics of TCP BBR

Start at: 2019-04-23 19:18:12  
End at: 2019-04-23 19:18:42  
Local clock offset: 16.229 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-04-23 20:39:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 378.57 Mbit/s  
95th percentile per-packet one-way delay: 132.904 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 378.57 Mbit/s  
95th percentile per-packet one-way delay: 132.904 ms  
Loss rate: 0.33%

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



Run 4: Statistics of TCP BBR

Start at: 2019-04-23 19:49:24

End at: 2019-04-23 19:49:54

Local clock offset: 7.491 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-04-23 20:39:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 264.13 Mbit/s

95th percentile per-packet one-way delay: 110.907 ms

Loss rate: 0.51%

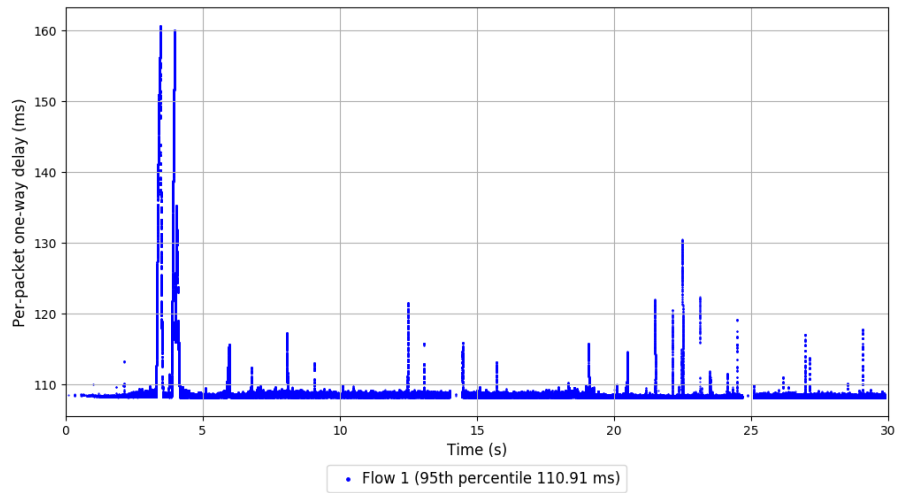
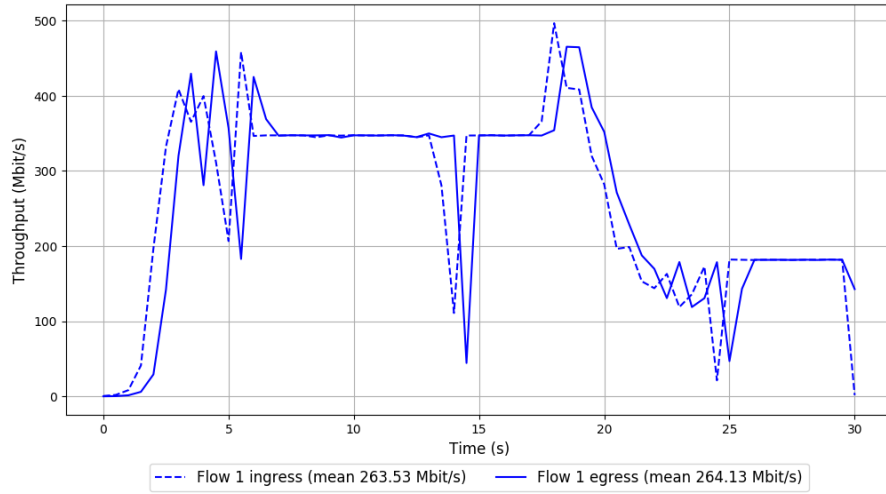
-- Flow 1:

Average throughput: 264.13 Mbit/s

95th percentile per-packet one-way delay: 110.907 ms

Loss rate: 0.51%

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





Run 5: Statistics of TCP BBR

Start at: 2019-04-23 20:20:38

End at: 2019-04-23 20:21:08

Local clock offset: 3.407 ms

Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-04-23 20:39:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 424.64 Mbit/s

95th percentile per-packet one-way delay: 173.756 ms

Loss rate: 0.71%

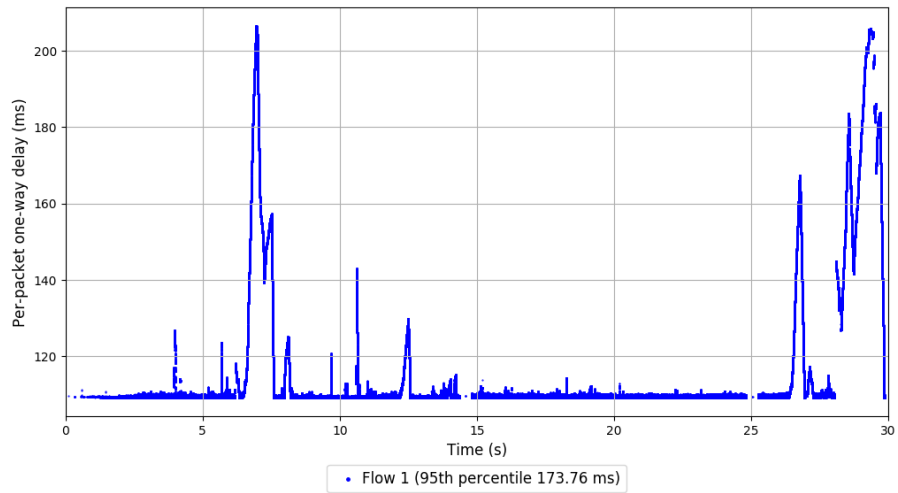
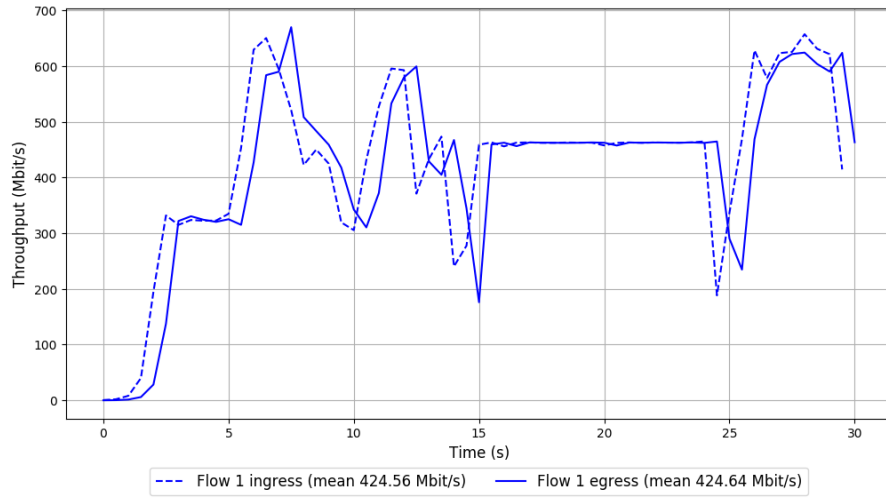
-- Flow 1:

Average throughput: 424.64 Mbit/s

95th percentile per-packet one-way delay: 173.756 ms

Loss rate: 0.71%

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



Run 1: Statistics of Copa

Start at: 2019-04-23 18:13:05

End at: 2019-04-23 18:13:35

Local clock offset: 18.594 ms

Remote clock offset: -0.55 ms

# Below is generated by plot.py at 2019-04-23 20:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 304.66 Mbit/s

95th percentile per-packet one-way delay: 121.516 ms

Loss rate: 0.83%

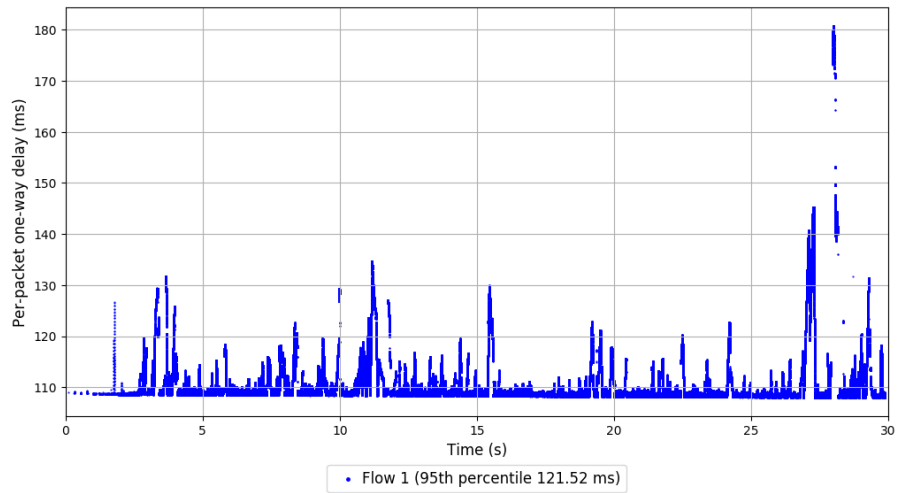
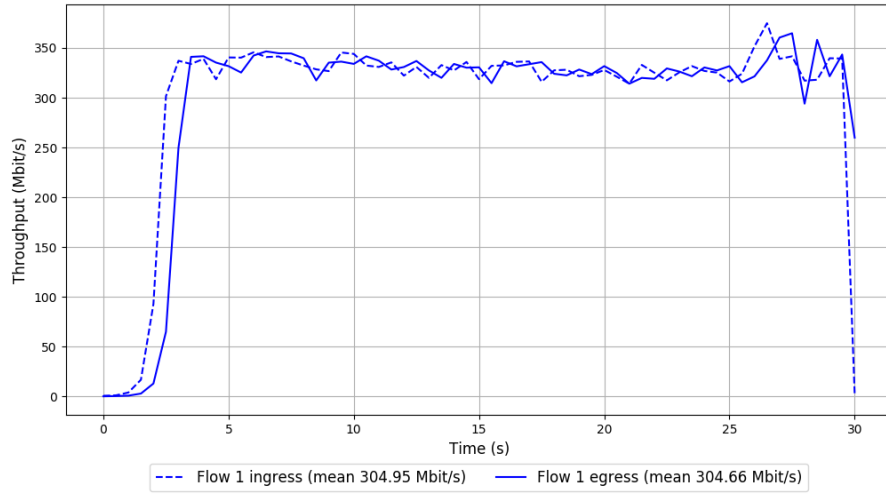
-- Flow 1:

Average throughput: 304.66 Mbit/s

95th percentile per-packet one-way delay: 121.516 ms

Loss rate: 0.83%

### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-04-23 18:43:59

End at: 2019-04-23 18:44:29

Local clock offset: 30.277 ms

Remote clock offset: -0.67 ms

# Below is generated by plot.py at 2019-04-23 20:41:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 314.75 Mbit/s

95th percentile per-packet one-way delay: 124.998 ms

Loss rate: 0.82%

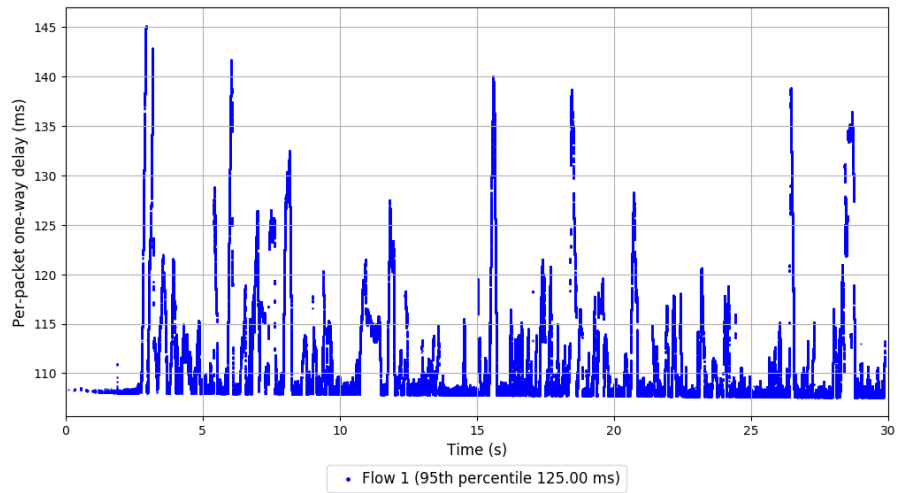
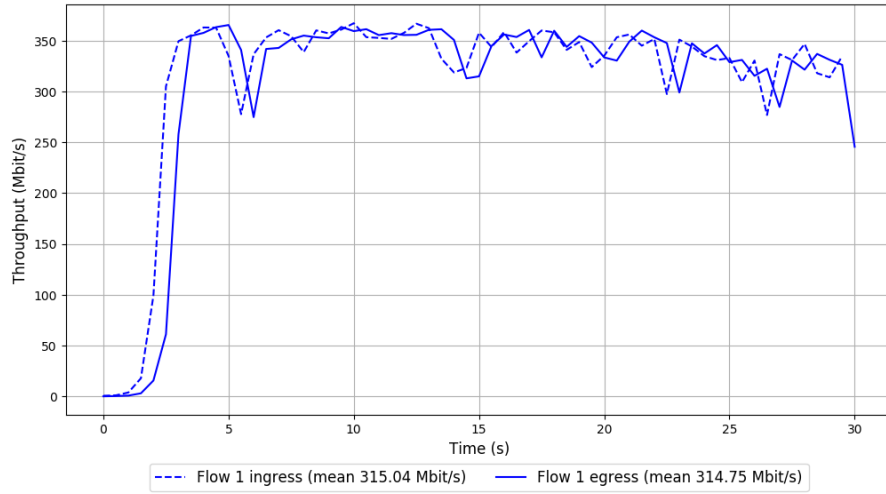
-- Flow 1:

Average throughput: 314.75 Mbit/s

95th percentile per-packet one-way delay: 124.998 ms

Loss rate: 0.82%

## Run 2: Report of Copa — Data Link

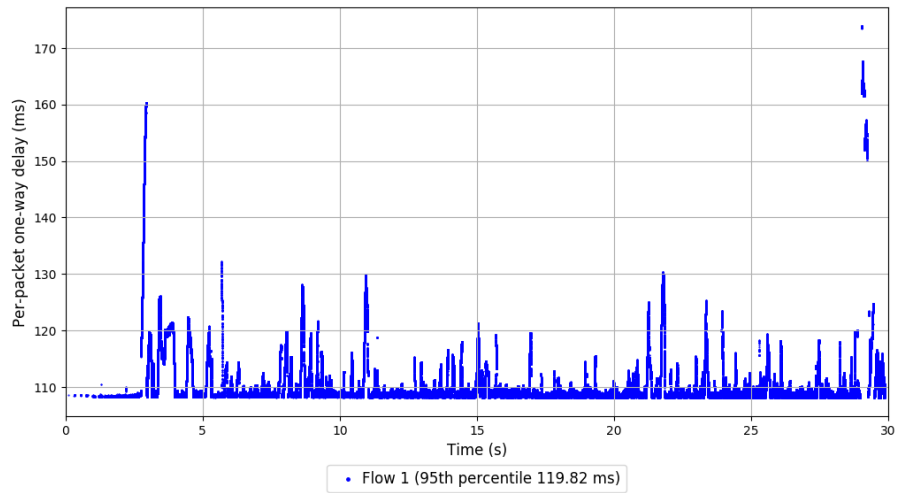
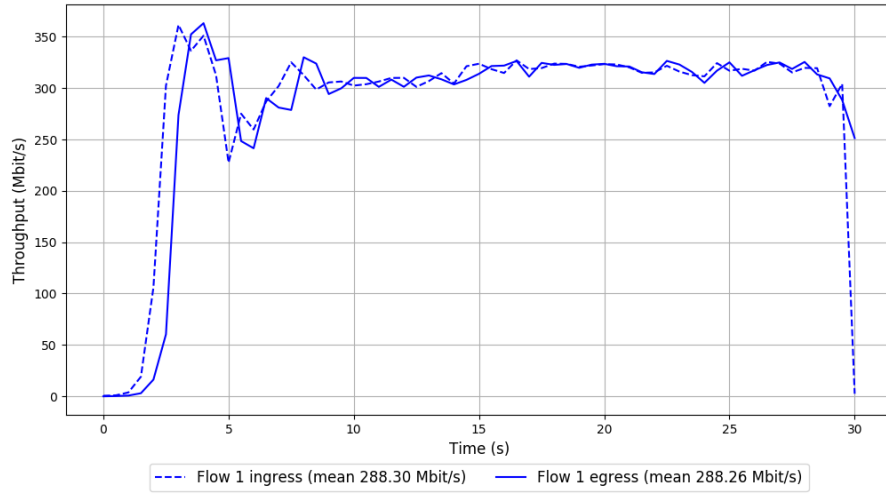


Run 3: Statistics of Copa

Start at: 2019-04-23 19:15:23  
End at: 2019-04-23 19:15:53  
Local clock offset: 15.603 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-04-23 20:41:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 288.26 Mbit/s  
95th percentile per-packet one-way delay: 119.819 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 288.26 Mbit/s  
95th percentile per-packet one-way delay: 119.819 ms  
Loss rate: 0.74%

### Run 3: Report of Copa — Data Link



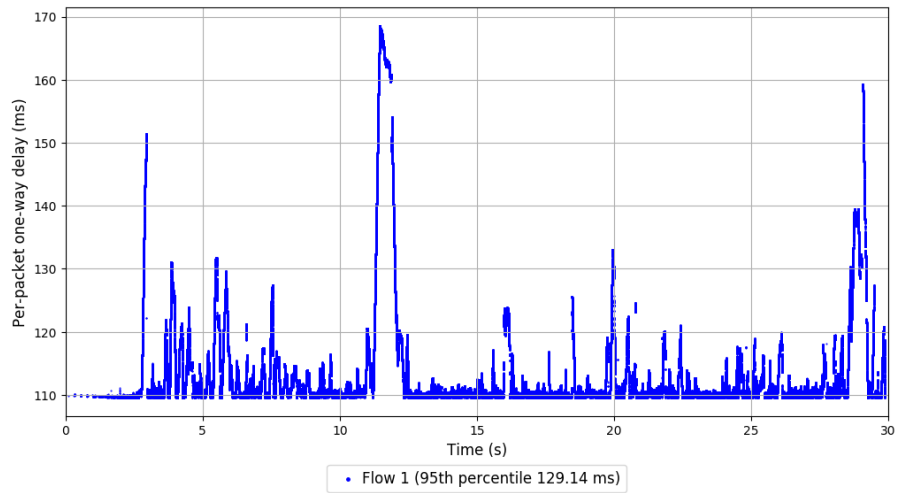
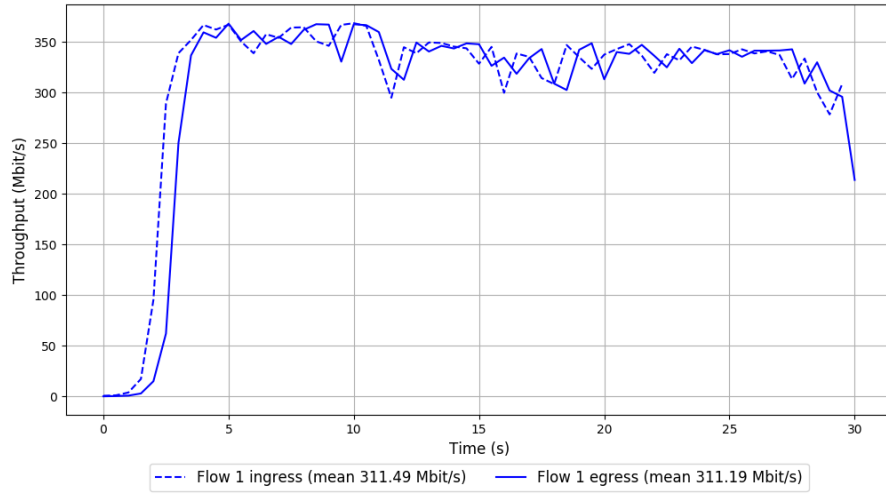


Run 4: Statistics of Copa

Start at: 2019-04-23 19:46:31  
End at: 2019-04-23 19:47:01  
Local clock offset: 7.455 ms  
Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2019-04-23 20:46:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 311.19 Mbit/s  
95th percentile per-packet one-way delay: 129.140 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 311.19 Mbit/s  
95th percentile per-packet one-way delay: 129.140 ms  
Loss rate: 0.83%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-04-23 20:17:46

End at: 2019-04-23 20:18:16

Local clock offset: 3.344 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-04-23 20:47:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 315.82 Mbit/s

95th percentile per-packet one-way delay: 121.254 ms

Loss rate: 0.82%

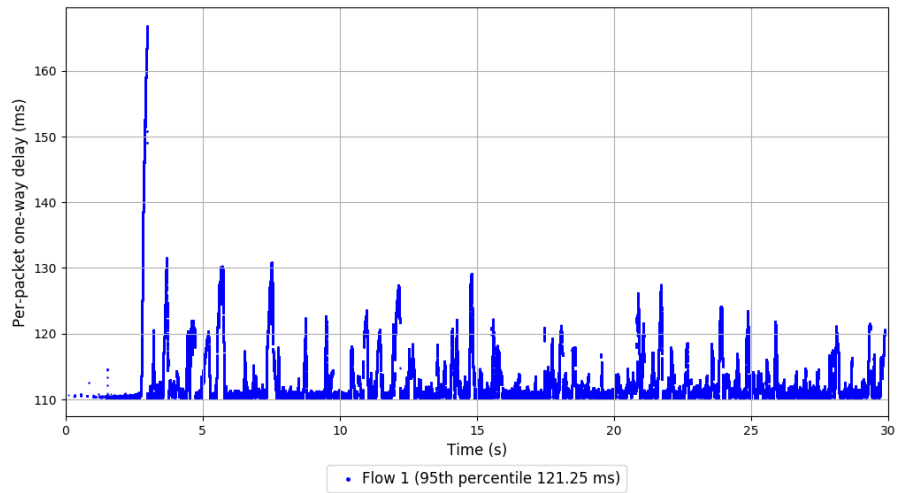
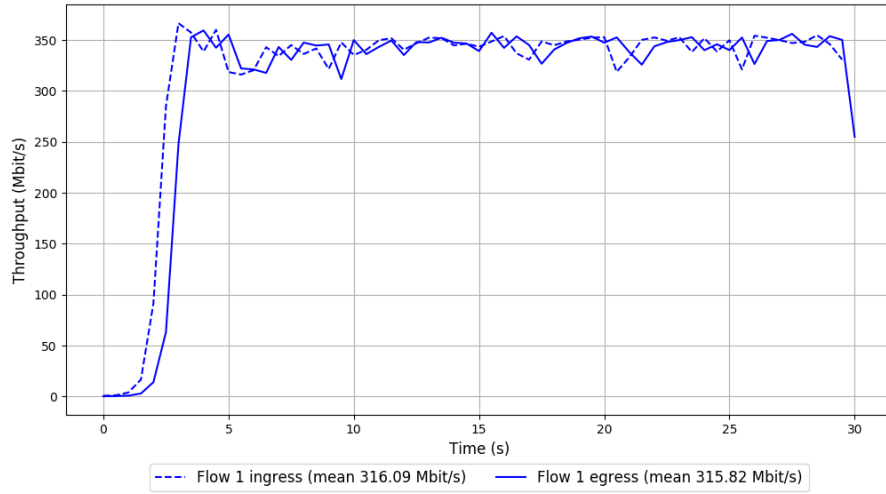
-- Flow 1:

Average throughput: 315.82 Mbit/s

95th percentile per-packet one-way delay: 121.254 ms

Loss rate: 0.82%

### Run 5: Report of Copa — Data Link

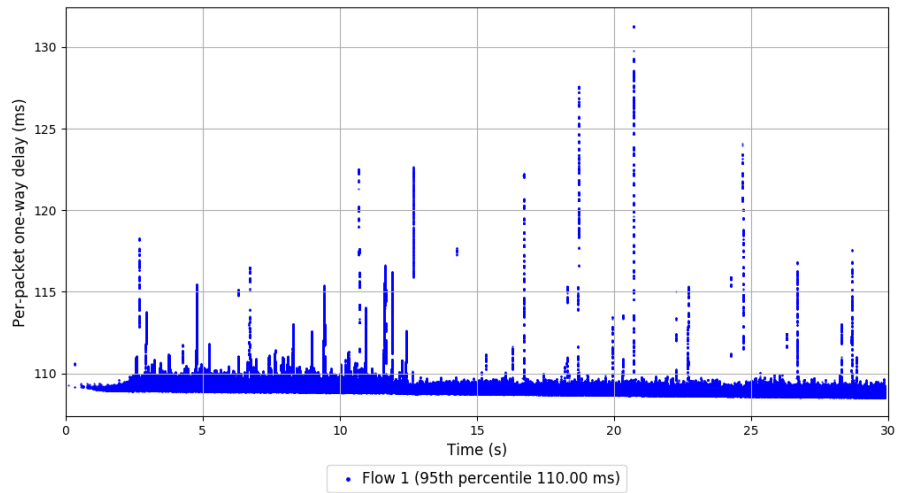
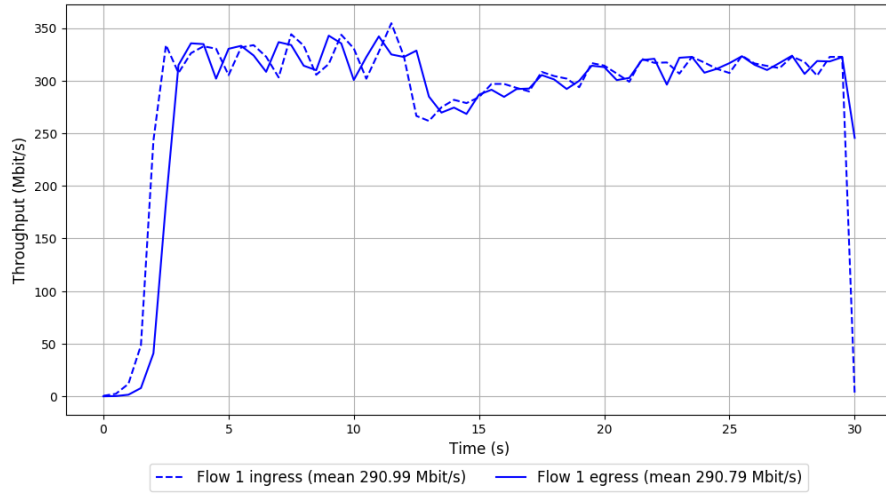


Run 1: Statistics of TCP Cubic

Start at: 2019-04-23 18:08:50  
End at: 2019-04-23 18:09:20  
Local clock offset: 14.225 ms  
Remote clock offset: -0.441 ms

# Below is generated by plot.py at 2019-04-23 20:47:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 290.79 Mbit/s  
95th percentile per-packet one-way delay: 109.995 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 290.79 Mbit/s  
95th percentile per-packet one-way delay: 109.995 ms  
Loss rate: 0.80%

Run 1: Report of TCP Cubic — Data Link

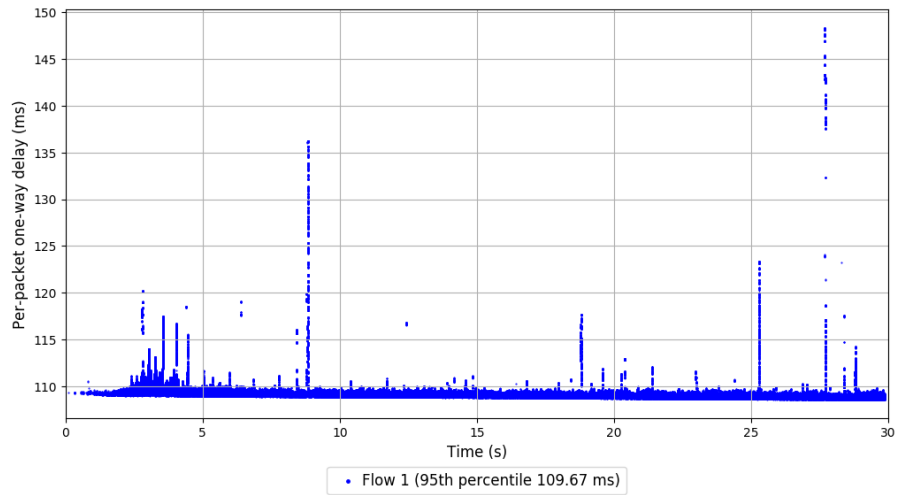
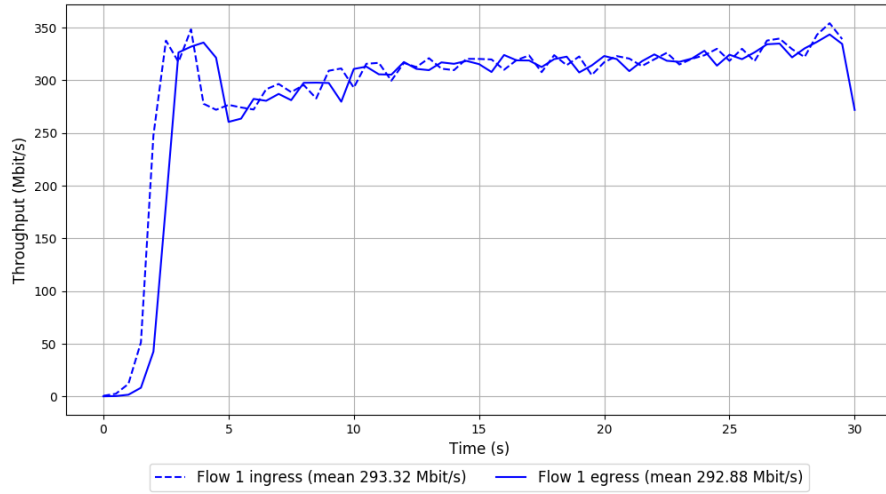


Run 2: Statistics of TCP Cubic

Start at: 2019-04-23 18:39:48  
End at: 2019-04-23 18:40:18  
Local clock offset: 26.355 ms  
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2019-04-23 20:47:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 292.88 Mbit/s  
95th percentile per-packet one-way delay: 109.669 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 292.88 Mbit/s  
95th percentile per-packet one-way delay: 109.669 ms  
Loss rate: 0.88%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-04-23 19:11:01  
End at: 2019-04-23 19:11:31  
Local clock offset: 14.958 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-04-23 20:47:53

# Datalink statistics

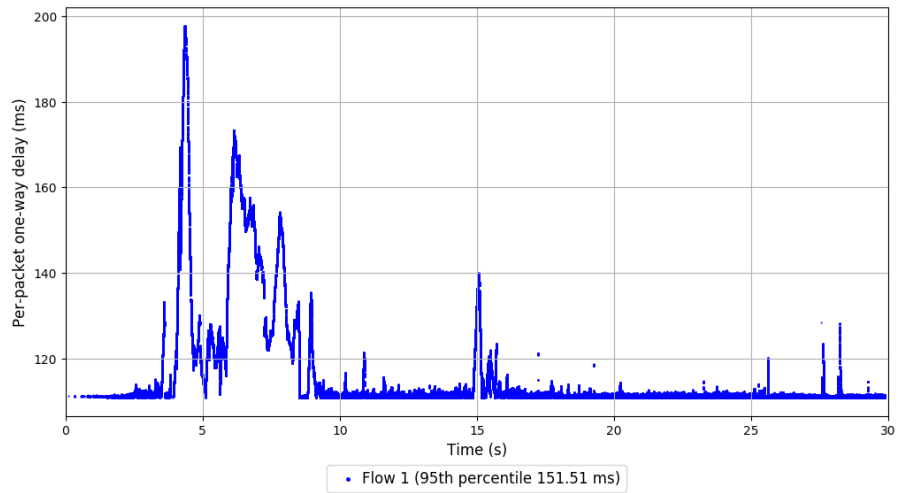
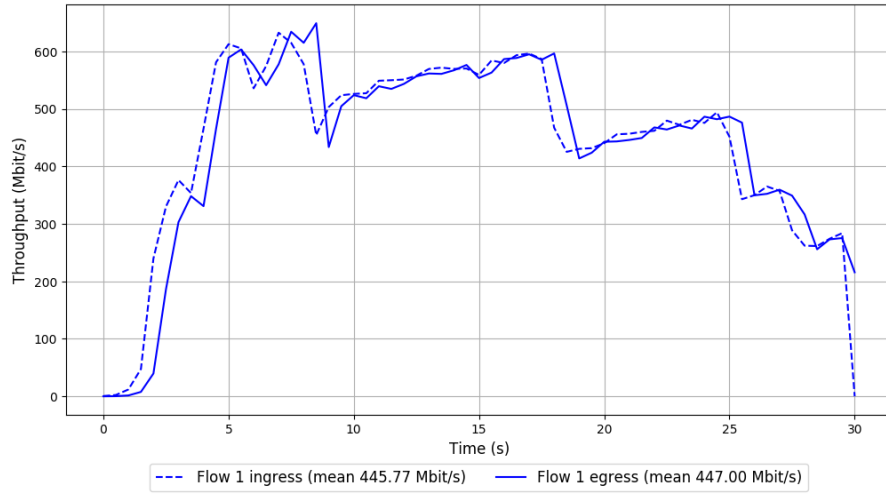
-- Total of 1 flow:

Average throughput: 447.00 Mbit/s  
95th percentile per-packet one-way delay: 151.510 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 447.00 Mbit/s  
95th percentile per-packet one-way delay: 151.510 ms  
Loss rate: 0.46%

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

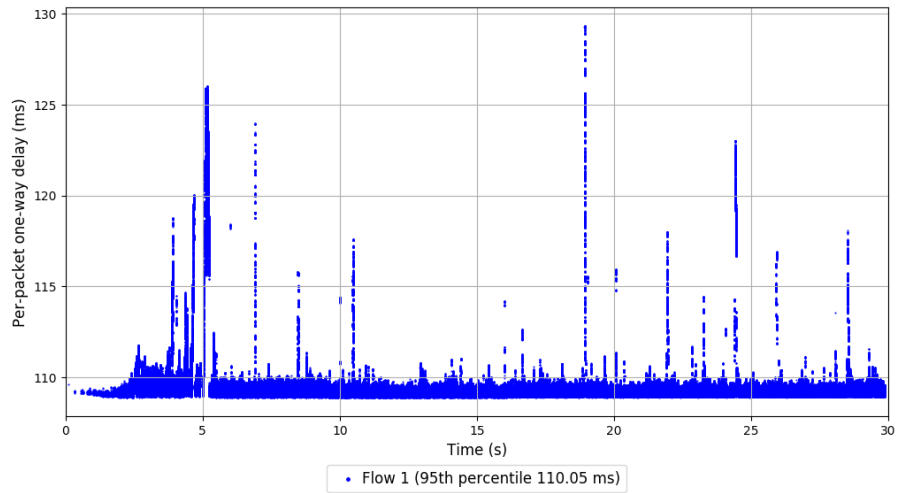
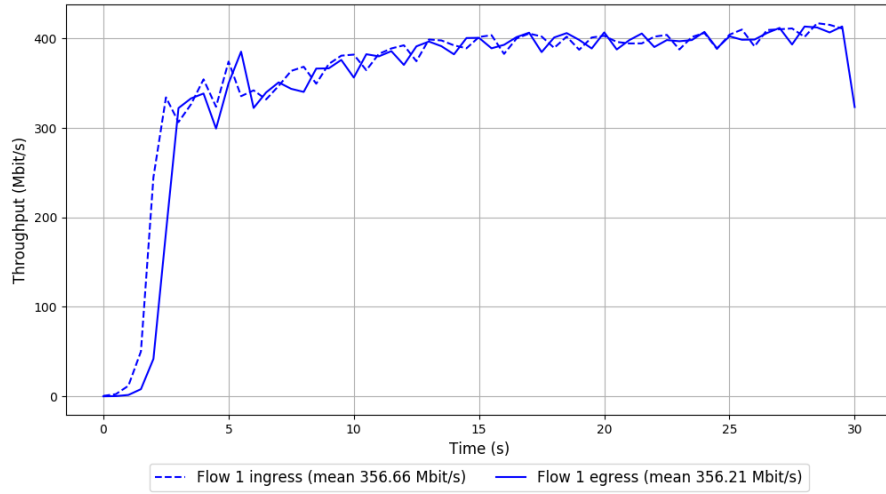


Run 4: Statistics of TCP Cubic

Start at: 2019-04-23 19:42:12  
End at: 2019-04-23 19:42:42  
Local clock offset: 7.538 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-04-23 20:47:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 356.21 Mbit/s  
95th percentile per-packet one-way delay: 110.045 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 356.21 Mbit/s  
95th percentile per-packet one-way delay: 110.045 ms  
Loss rate: 0.86%

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

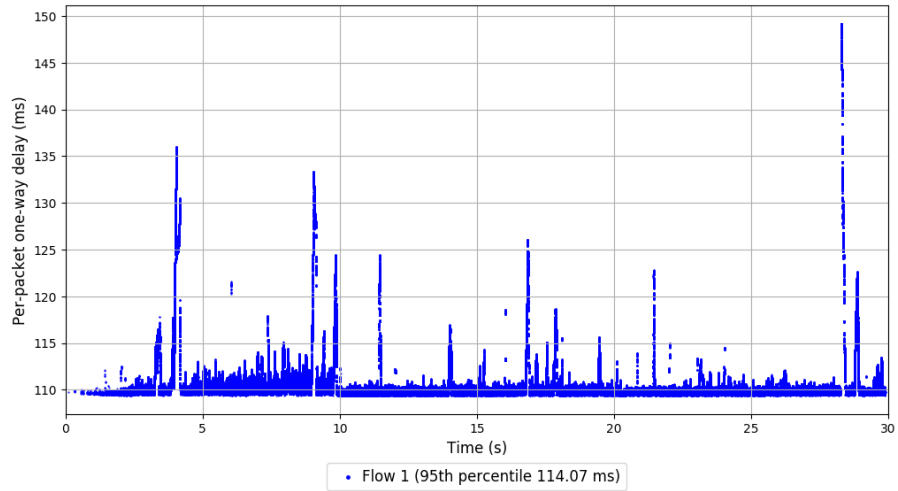
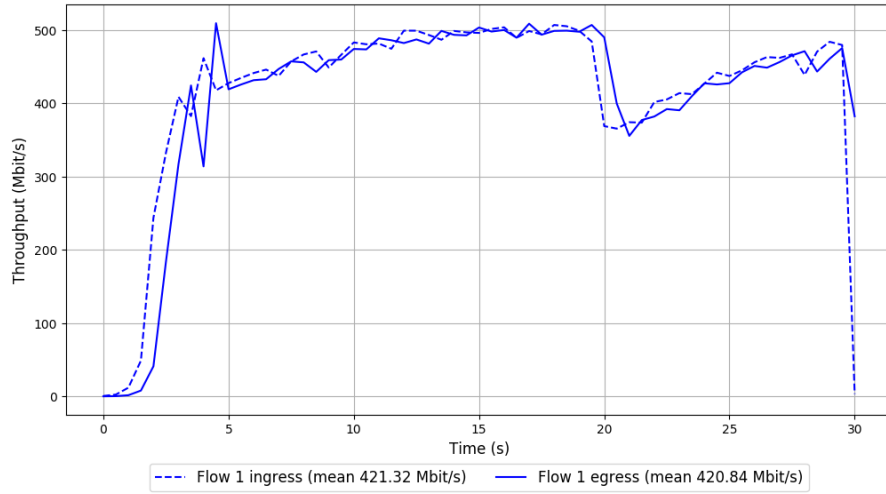


Run 5: Statistics of TCP Cubic

Start at: 2019-04-23 20:13:25  
End at: 2019-04-23 20:13:55  
Local clock offset: 3.997 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-04-23 20:48:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 420.84 Mbit/s  
95th percentile per-packet one-way delay: 114.067 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 420.84 Mbit/s  
95th percentile per-packet one-way delay: 114.067 ms  
Loss rate: 0.84%

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



Run 1: Statistics of FillP

Start at: 2019-04-23 18:00:50

End at: 2019-04-23 18:01:20

Local clock offset: 15.02 ms

Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2019-04-23 20:58:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 793.59 Mbit/s

95th percentile per-packet one-way delay: 165.631 ms

Loss rate: 1.86%

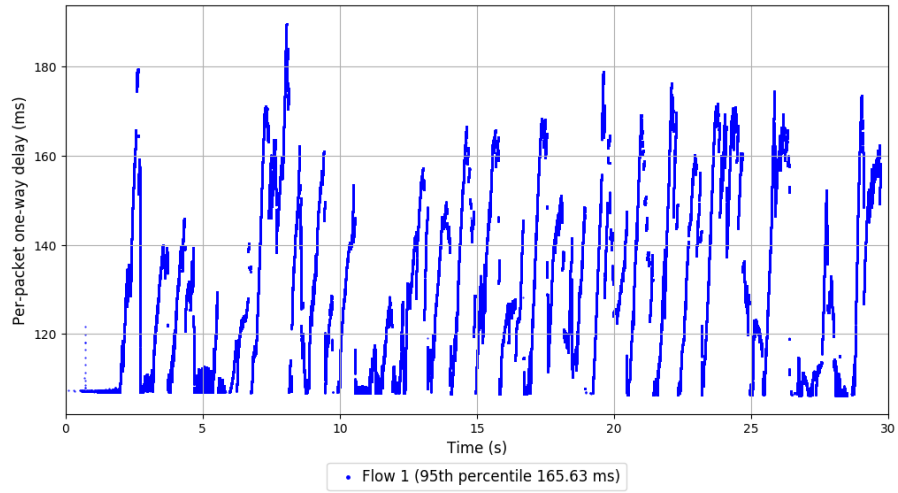
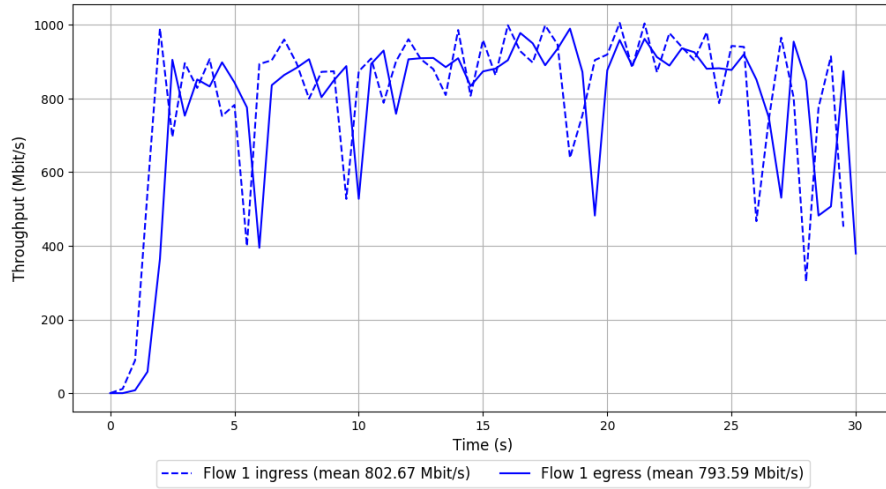
-- Flow 1:

Average throughput: 793.59 Mbit/s

95th percentile per-packet one-way delay: 165.631 ms

Loss rate: 1.86%

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



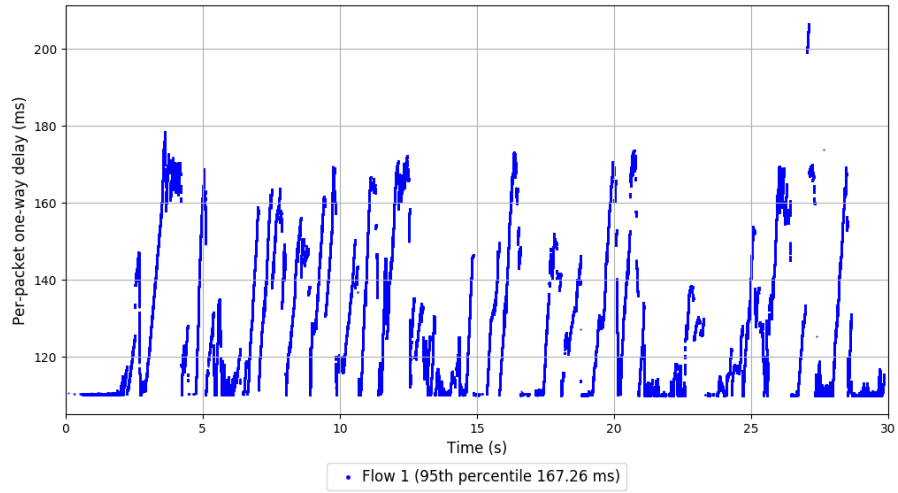
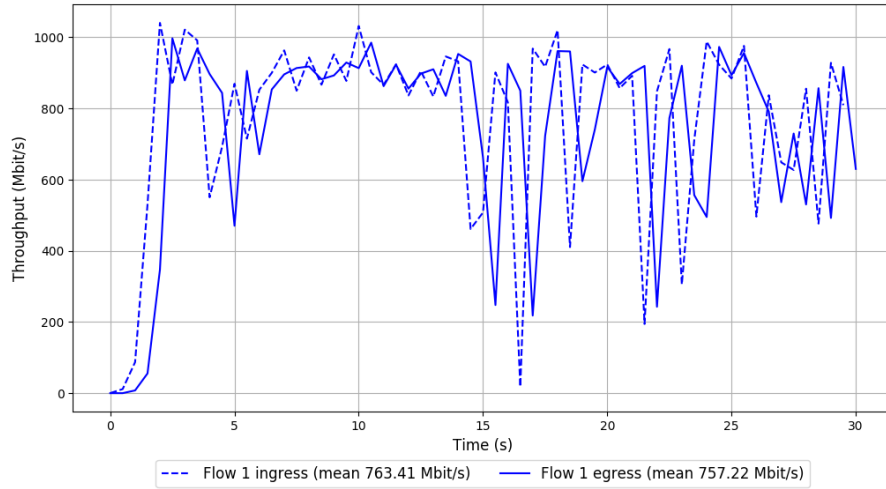


Run 2: Statistics of FillP

Start at: 2019-04-23 18:32:04  
End at: 2019-04-23 18:32:34  
Local clock offset: 21.132 ms  
Remote clock offset: -0.266 ms

# Below is generated by plot.py at 2019-04-23 20:59:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 757.22 Mbit/s  
95th percentile per-packet one-way delay: 167.256 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 757.22 Mbit/s  
95th percentile per-packet one-way delay: 167.256 ms  
Loss rate: 1.54%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-04-23 19:03:12

End at: 2019-04-23 19:03:42

Local clock offset: 17.947 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-04-23 21:02:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 793.48 Mbit/s

95th percentile per-packet one-way delay: 169.072 ms

Loss rate: 2.58%

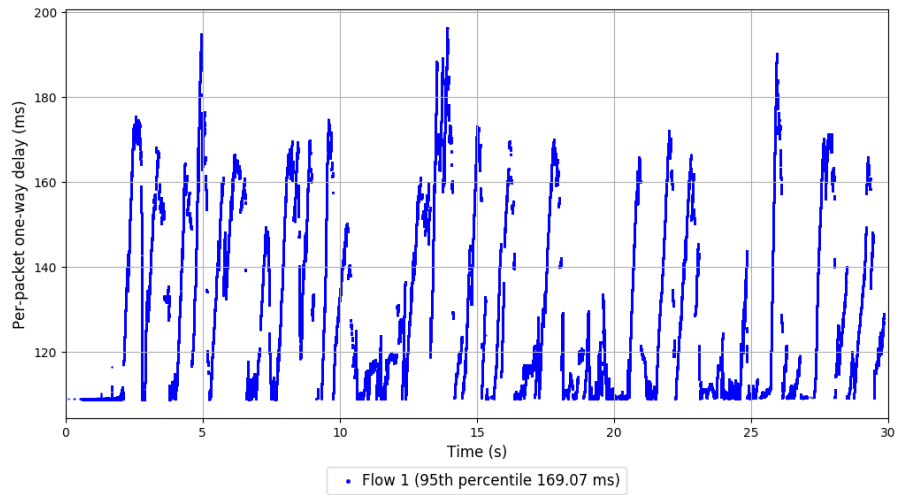
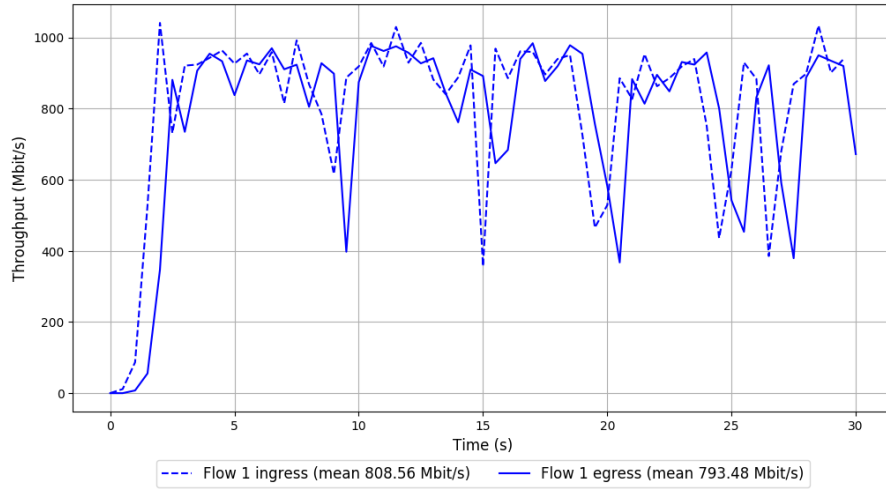
-- Flow 1:

Average throughput: 793.48 Mbit/s

95th percentile per-packet one-way delay: 169.072 ms

Loss rate: 2.58%

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

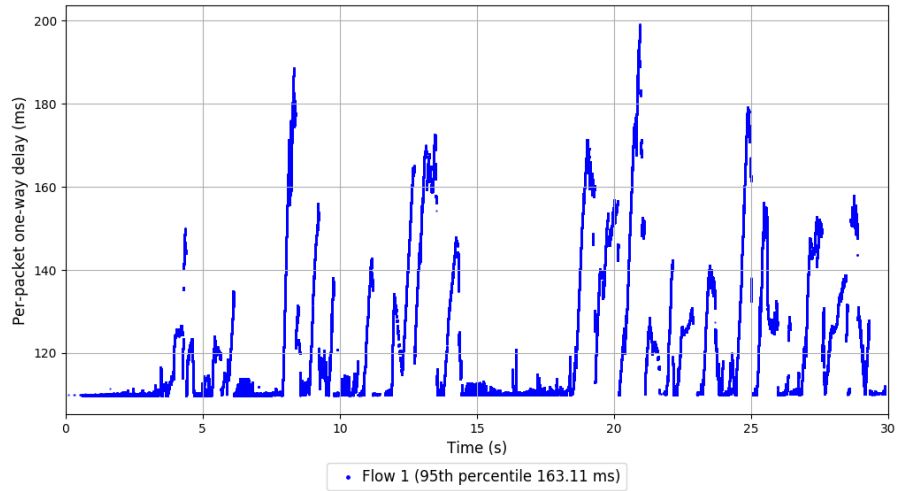
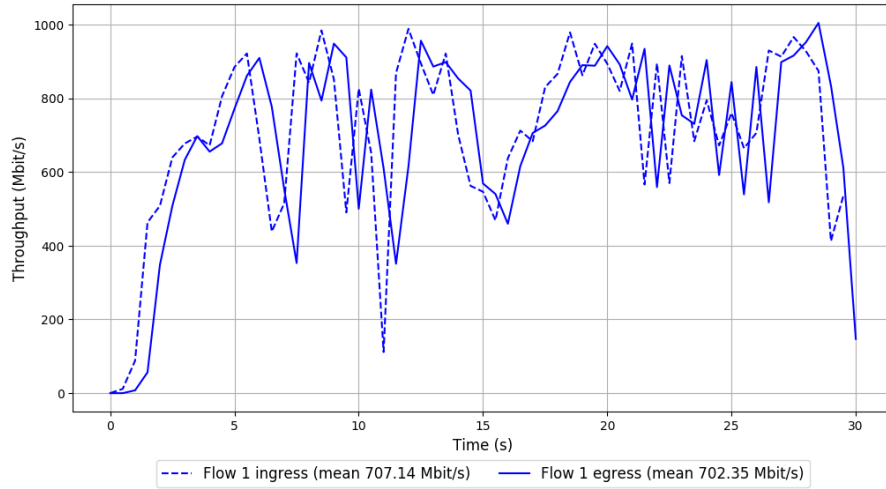


Run 4: Statistics of FillP

Start at: 2019-04-23 19:34:22  
End at: 2019-04-23 19:34:52  
Local clock offset: 10.705 ms  
Remote clock offset: -0.089 ms

```
# Below is generated by plot.py at 2019-04-23 21:02:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 702.35 Mbit/s
95th percentile per-packet one-way delay: 163.109 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 702.35 Mbit/s
95th percentile per-packet one-way delay: 163.109 ms
Loss rate: 1.41%
```

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



Run 5: Statistics of FillP

Start at: 2019-04-23 20:05:38

End at: 2019-04-23 20:06:08

Local clock offset: 6.208 ms

Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-04-23 21:03:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 755.94 Mbit/s

95th percentile per-packet one-way delay: 171.796 ms

Loss rate: 2.52%

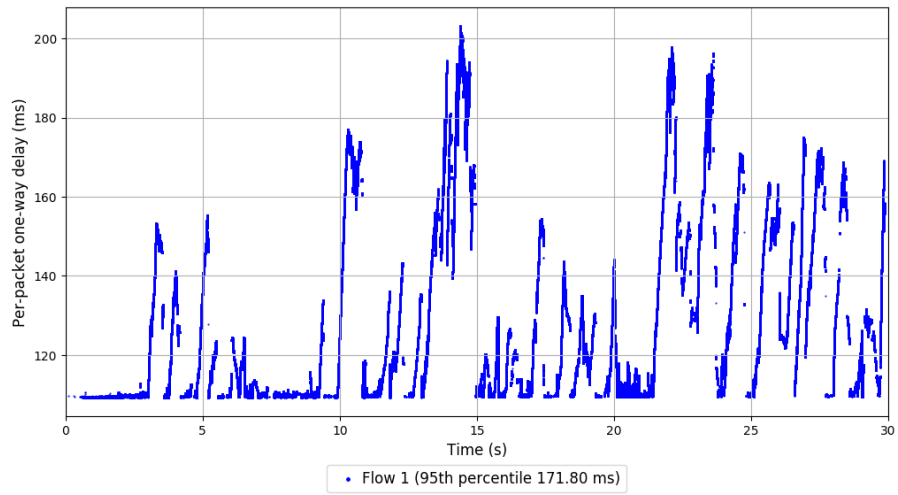
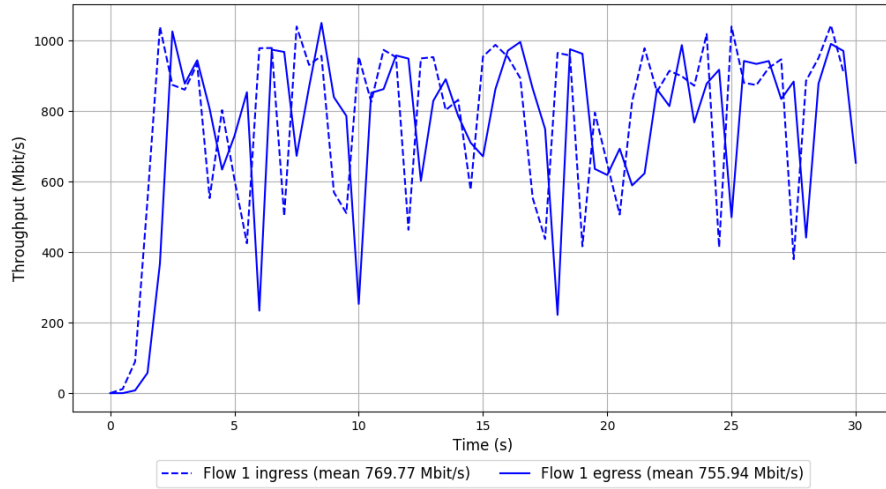
-- Flow 1:

Average throughput: 755.94 Mbit/s

95th percentile per-packet one-way delay: 171.796 ms

Loss rate: 2.52%

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



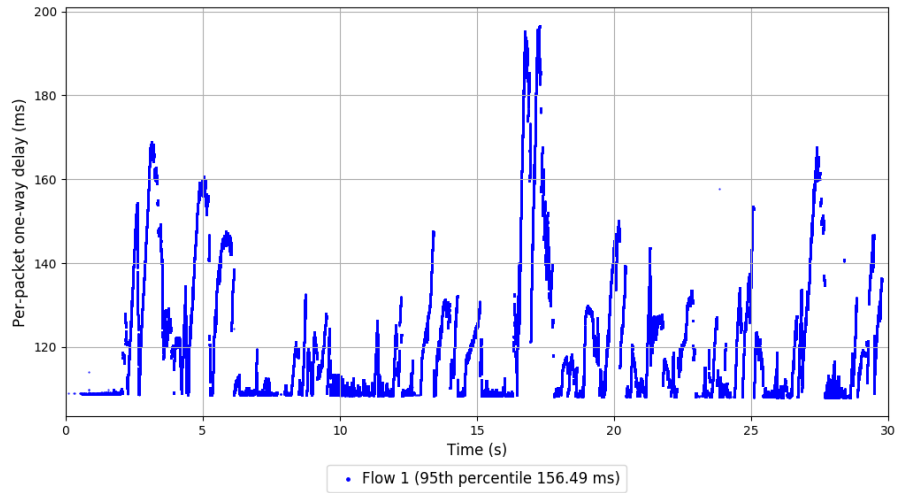
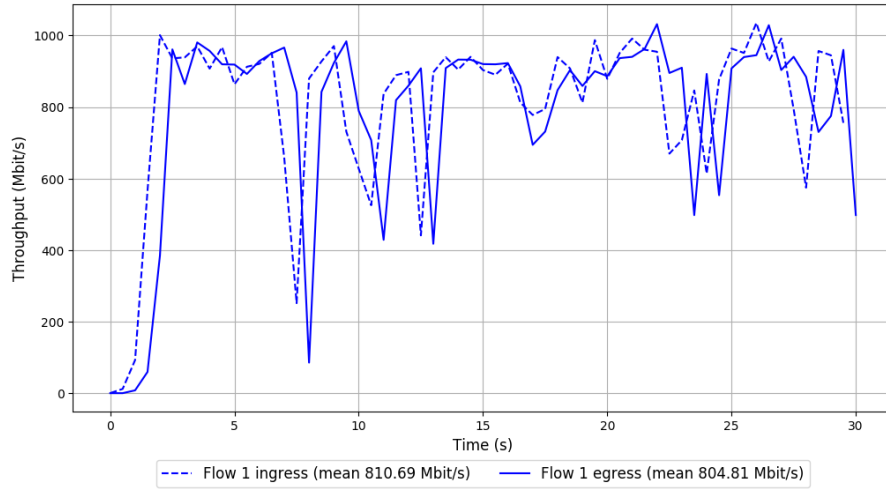


Run 1: Statistics of FillP-Sheep

Start at: 2019-04-23 17:58:57  
End at: 2019-04-23 17:59:27  
Local clock offset: 12.583 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-04-23 21:04:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 804.81 Mbit/s  
95th percentile per-packet one-way delay: 156.491 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 804.81 Mbit/s  
95th percentile per-packet one-way delay: 156.491 ms  
Loss rate: 1.46%

Run 1: Report of FillP-Sheep — Data Link

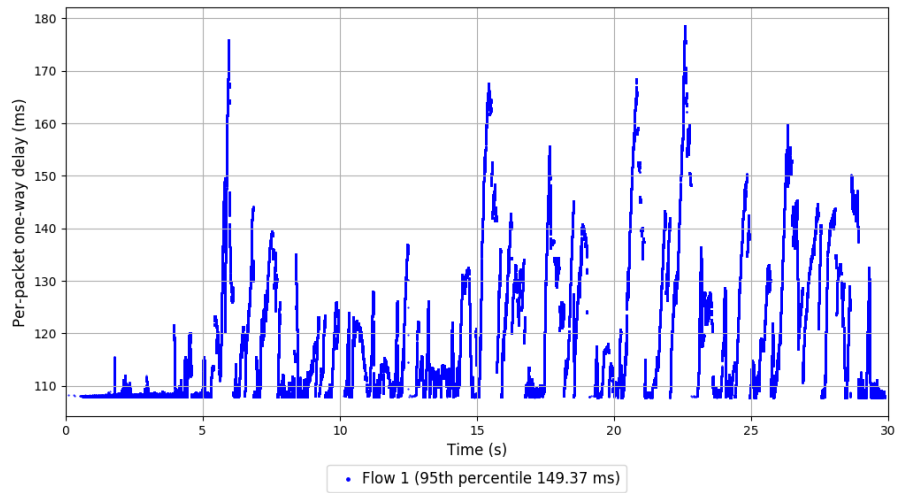
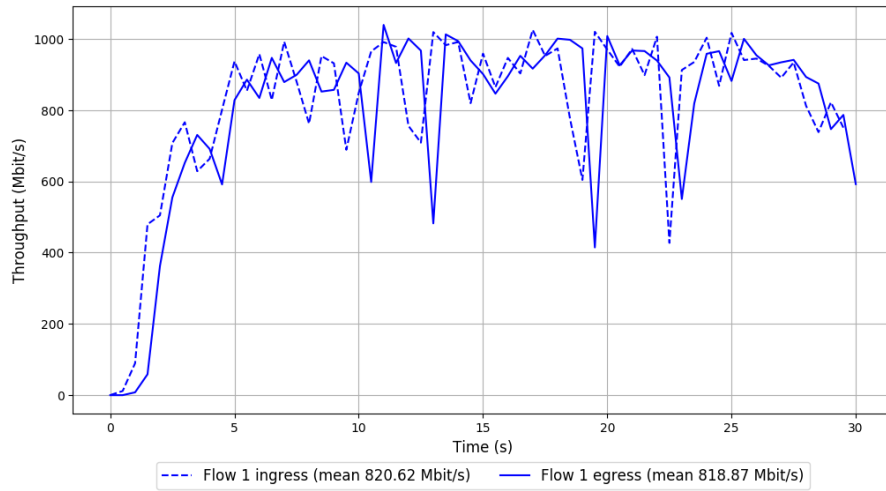


Run 2: Statistics of FillP-Sheep

Start at: 2019-04-23 18:30:18  
End at: 2019-04-23 18:30:48  
Local clock offset: 19.941 ms  
Remote clock offset: -0.312 ms

# Below is generated by plot.py at 2019-04-23 21:05:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 818.87 Mbit/s  
95th percentile per-packet one-way delay: 149.372 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 818.87 Mbit/s  
95th percentile per-packet one-way delay: 149.372 ms  
Loss rate: 0.94%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-04-23 19:01:28

End at: 2019-04-23 19:01:58

Local clock offset: 19.518 ms

Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2019-04-23 21:05:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 749.33 Mbit/s

95th percentile per-packet one-way delay: 151.164 ms

Loss rate: 1.23%

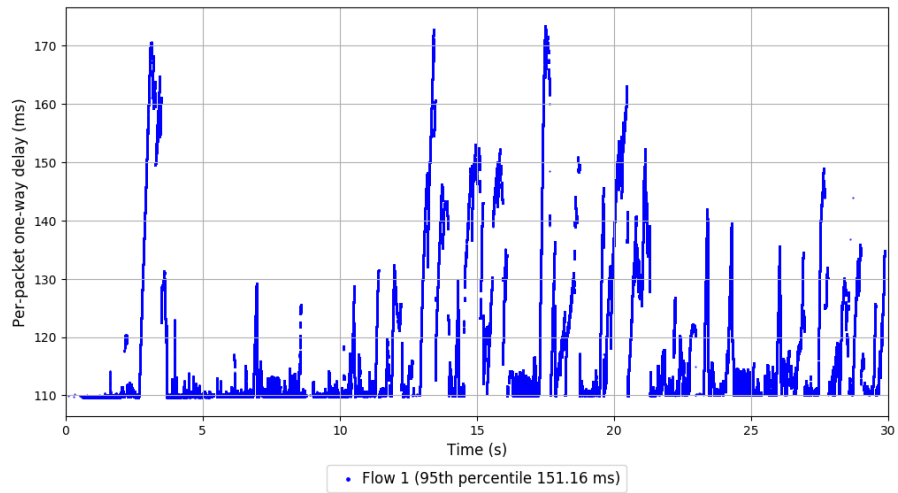
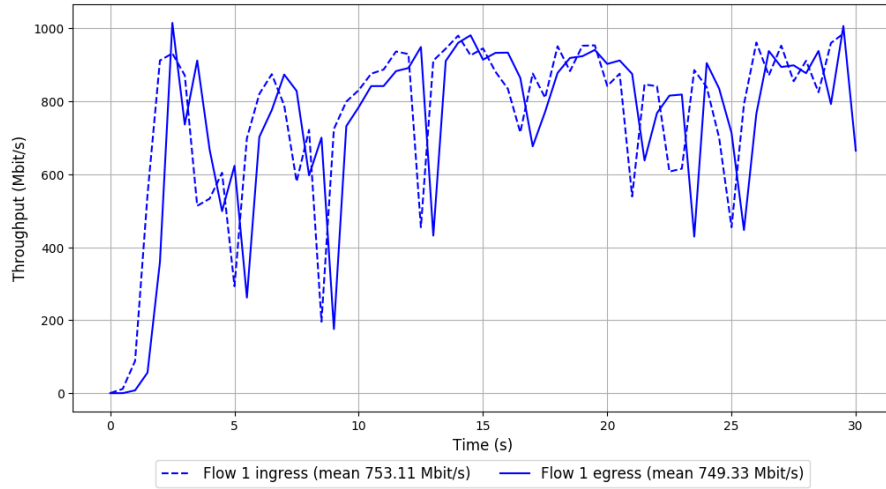
-- Flow 1:

Average throughput: 749.33 Mbit/s

95th percentile per-packet one-way delay: 151.164 ms

Loss rate: 1.23%

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

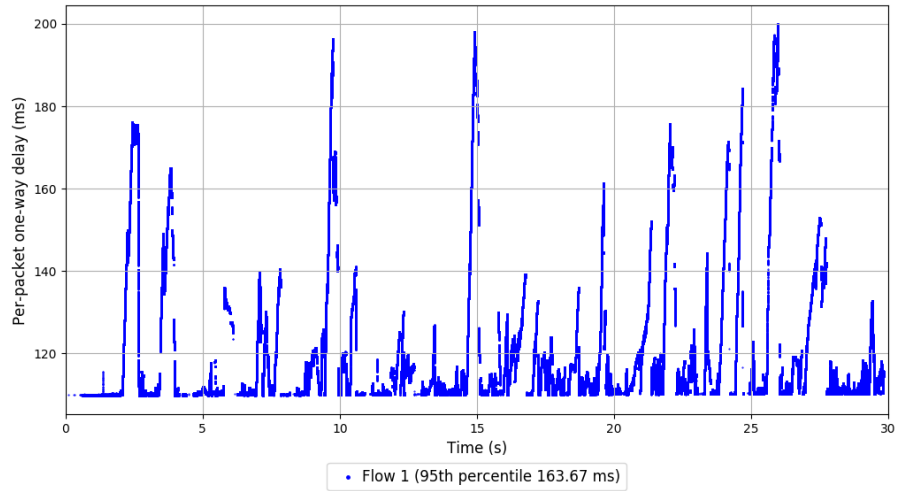
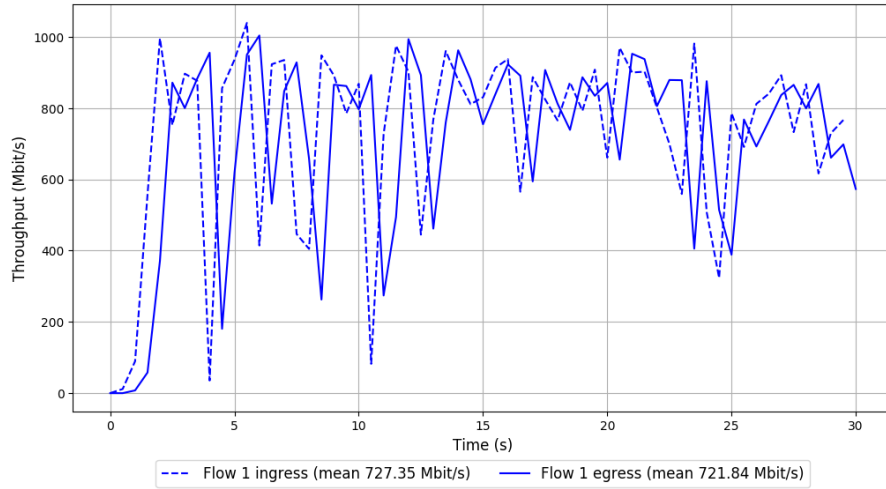


Run 4: Statistics of FillP-Sheep

Start at: 2019-04-23 19:32:41  
End at: 2019-04-23 19:33:11  
Local clock offset: 12.283 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-04-23 21:14:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 721.84 Mbit/s  
95th percentile per-packet one-way delay: 163.671 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 721.84 Mbit/s  
95th percentile per-packet one-way delay: 163.671 ms  
Loss rate: 1.41%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-04-23 20:03:51

End at: 2019-04-23 20:04:21

Local clock offset: 7.7 ms

Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-04-23 21:17:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 814.93 Mbit/s

95th percentile per-packet one-way delay: 181.665 ms

Loss rate: 3.18%

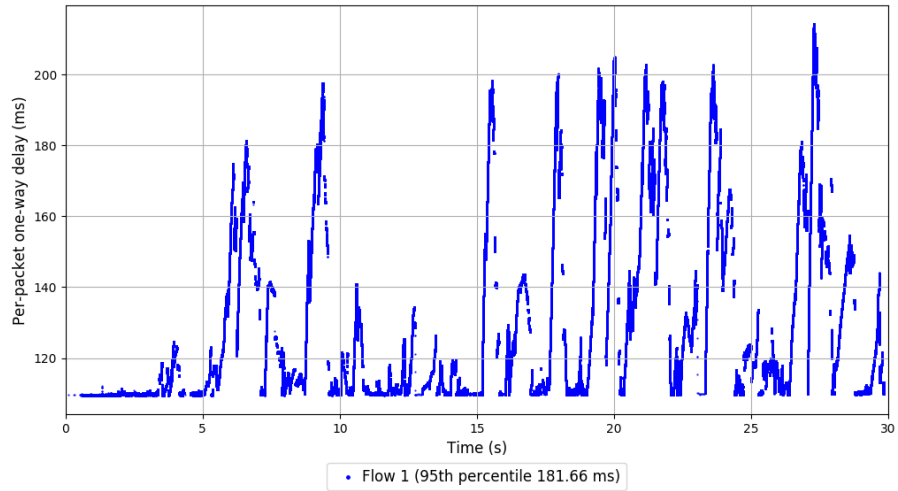
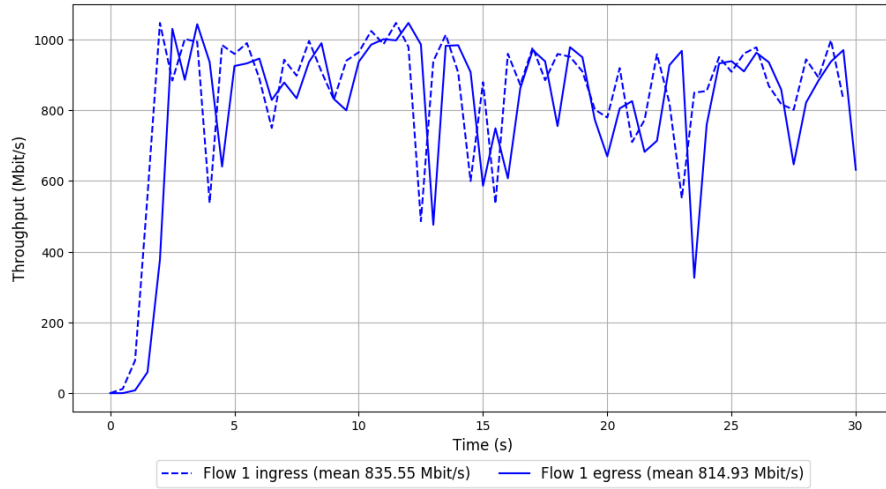
-- Flow 1:

Average throughput: 814.93 Mbit/s

95th percentile per-packet one-way delay: 181.665 ms

Loss rate: 3.18%

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

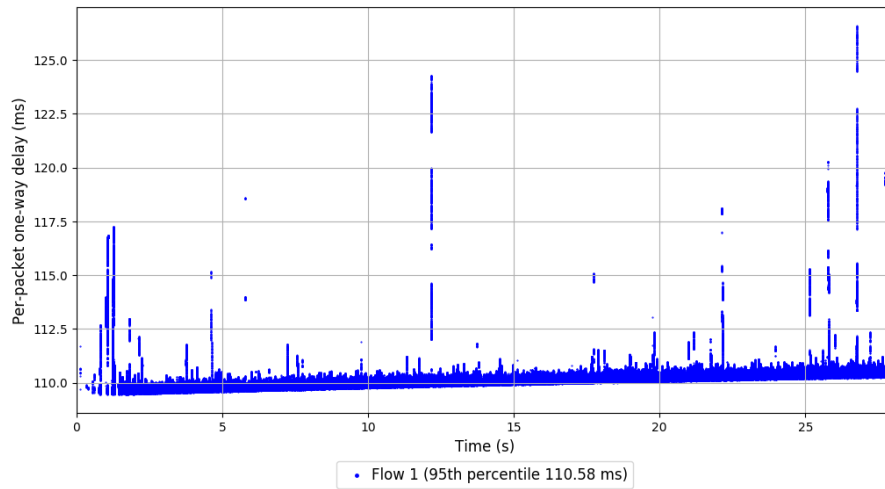
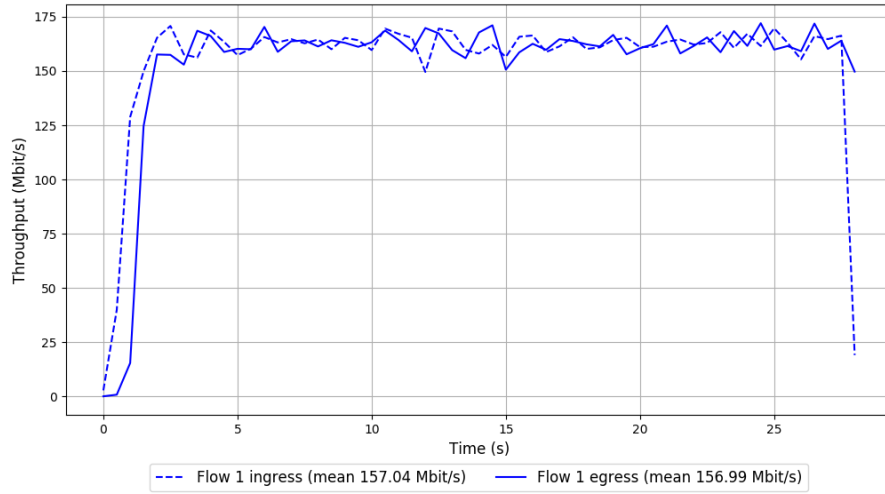


Run 1: Statistics of Indigo

Start at: 2019-04-23 17:53:23  
End at: 2019-04-23 17:53:53  
Local clock offset: 11.432 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-04-23 21:17:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 156.99 Mbit/s  
95th percentile per-packet one-way delay: 110.580 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 156.99 Mbit/s  
95th percentile per-packet one-way delay: 110.580 ms  
Loss rate: 0.82%

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

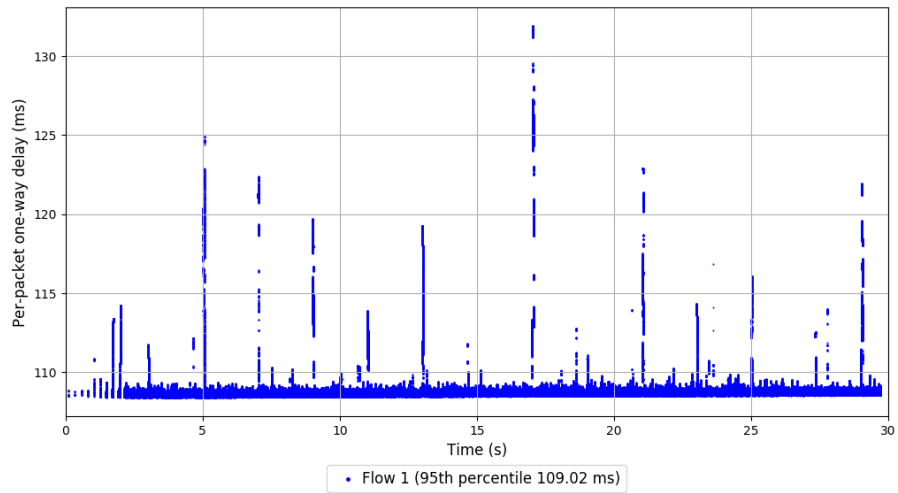
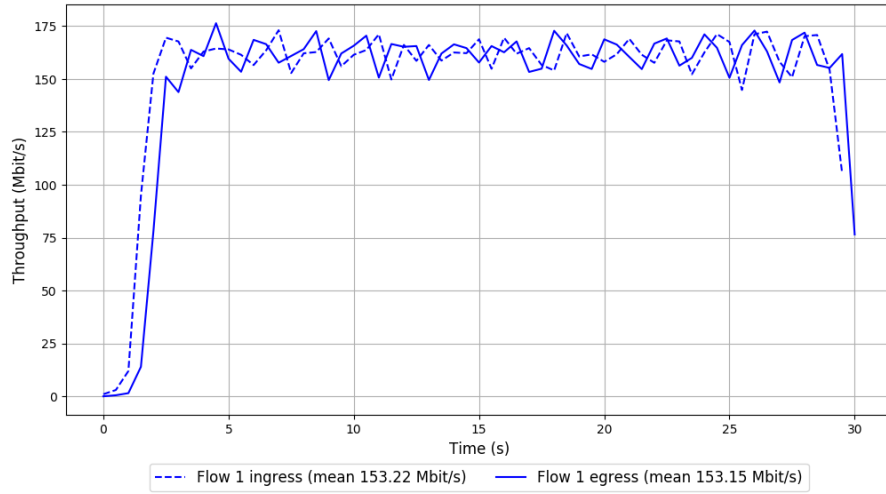


Run 2: Statistics of Indigo

Start at: 2019-04-23 18:24:43  
End at: 2019-04-23 18:25:14  
Local clock offset: 20.185 ms  
Remote clock offset: -0.353 ms

# Below is generated by plot.py at 2019-04-23 21:17:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 153.15 Mbit/s  
95th percentile per-packet one-way delay: 109.023 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 153.15 Mbit/s  
95th percentile per-packet one-way delay: 109.023 ms  
Loss rate: 0.78%

## Run 2: Report of Indigo — Data Link

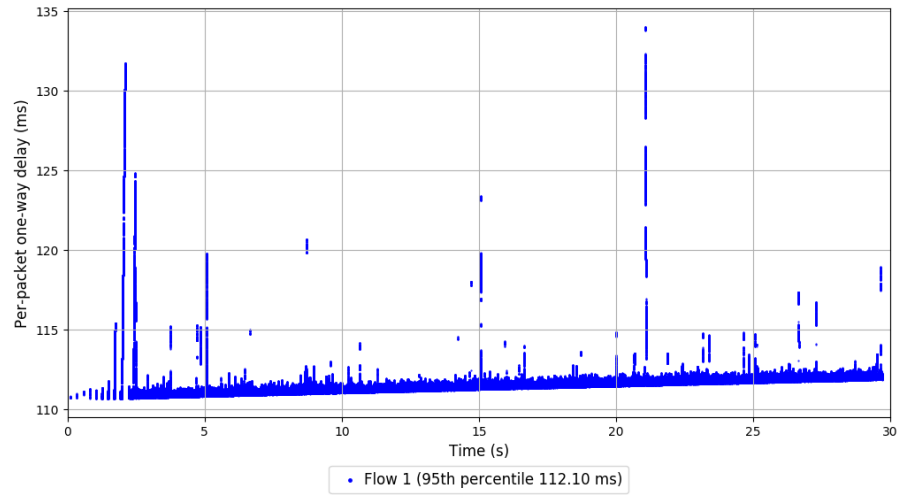
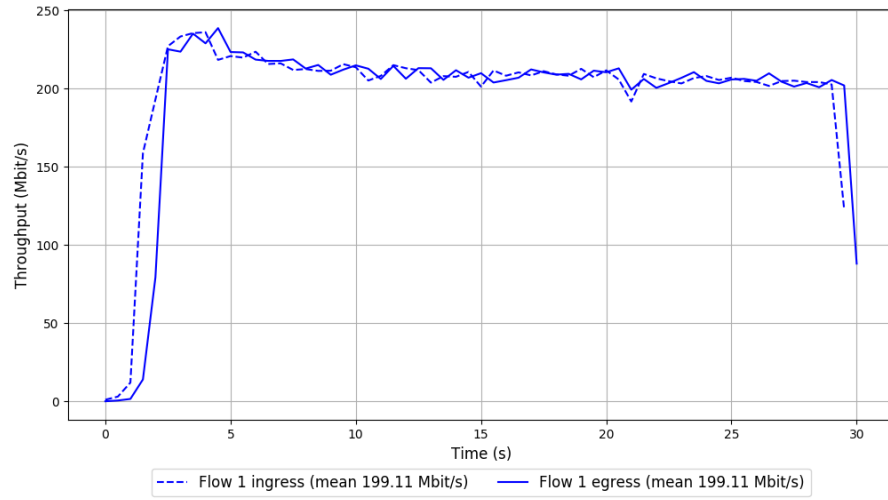


Run 3: Statistics of Indigo

Start at: 2019-04-23 18:55:51  
End at: 2019-04-23 18:56:21  
Local clock offset: 30.617 ms  
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2019-04-23 21:17:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 199.11 Mbit/s  
95th percentile per-packet one-way delay: 112.101 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 199.11 Mbit/s  
95th percentile per-packet one-way delay: 112.101 ms  
Loss rate: 0.69%

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



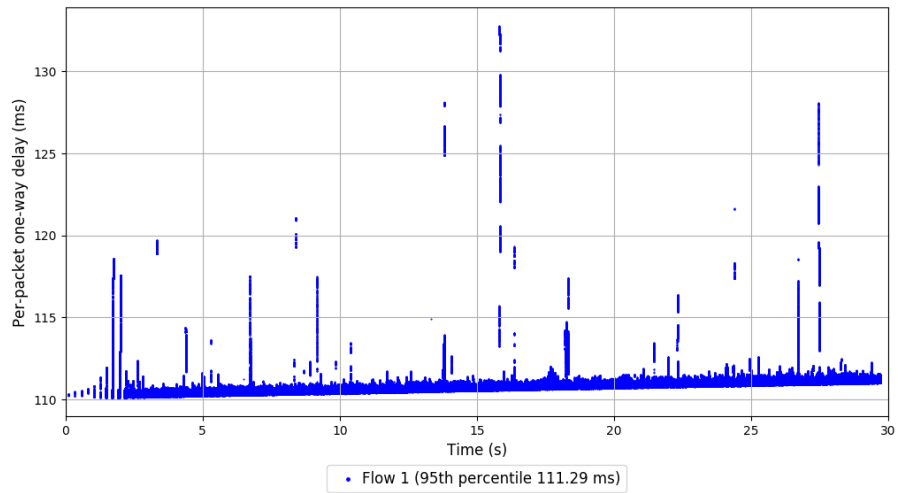
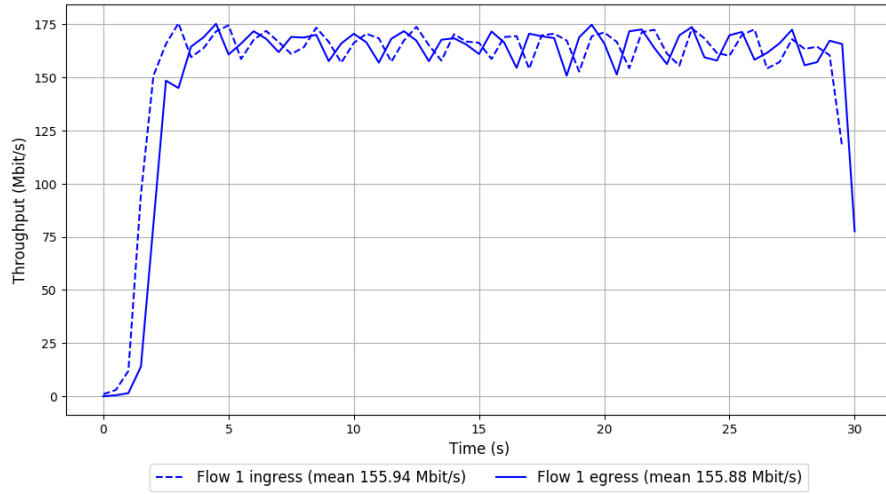


Run 4: Statistics of Indigo

Start at: 2019-04-23 19:27:10  
End at: 2019-04-23 19:27:40  
Local clock offset: 20.001 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-04-23 21:17:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 155.88 Mbit/s  
95th percentile per-packet one-way delay: 111.292 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 155.88 Mbit/s  
95th percentile per-packet one-way delay: 111.292 ms  
Loss rate: 0.78%

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



Run 5: Statistics of Indigo

Start at: 2019-04-23 19:58:17

End at: 2019-04-23 19:58:47

Local clock offset: 9.258 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-04-23 21:17:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 200.24 Mbit/s

95th percentile per-packet one-way delay: 109.756 ms

Loss rate: 0.66%

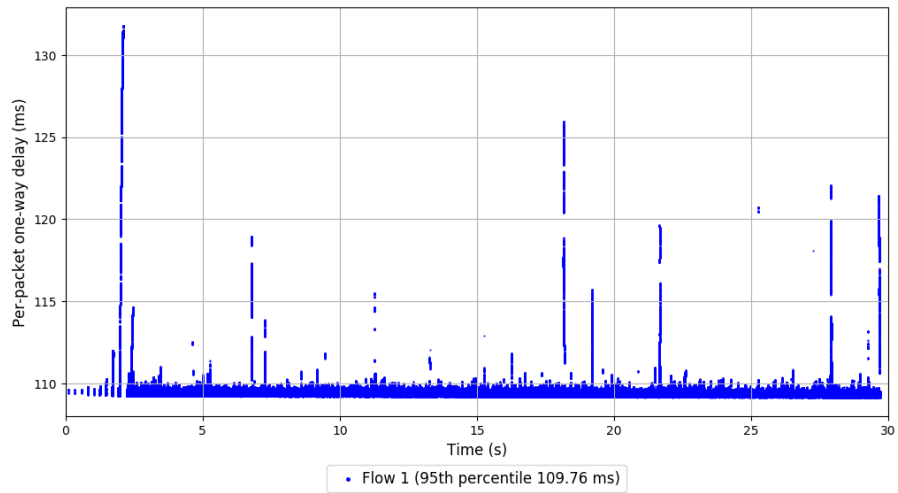
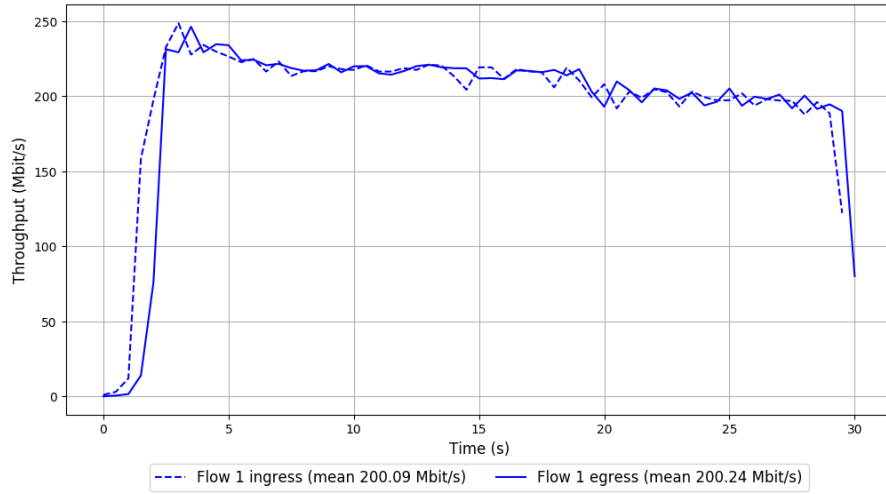
-- Flow 1:

Average throughput: 200.24 Mbit/s

95th percentile per-packet one-way delay: 109.756 ms

Loss rate: 0.66%

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

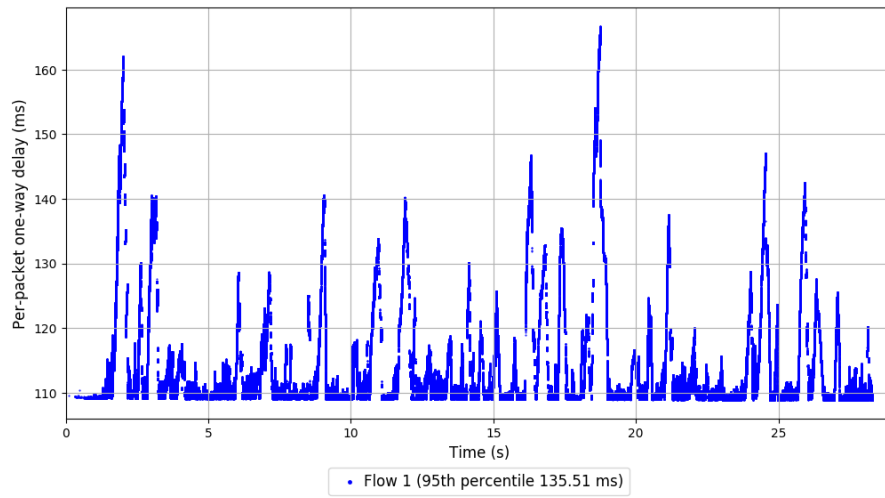
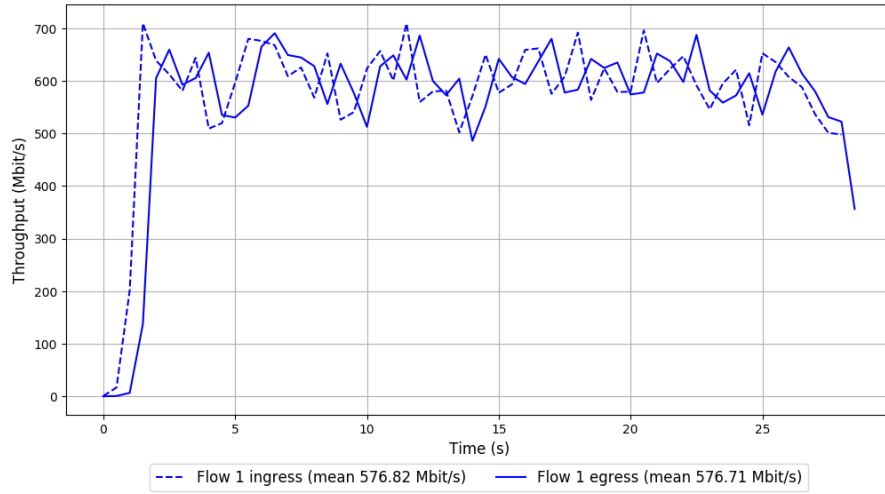


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-04-23 18:07:07  
End at: 2019-04-23 18:07:37  
Local clock offset: 13.226 ms  
Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2019-04-23 21:17:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 576.71 Mbit/s  
95th percentile per-packet one-way delay: 135.511 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 576.71 Mbit/s  
95th percentile per-packet one-way delay: 135.511 ms  
Loss rate: 0.80%

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

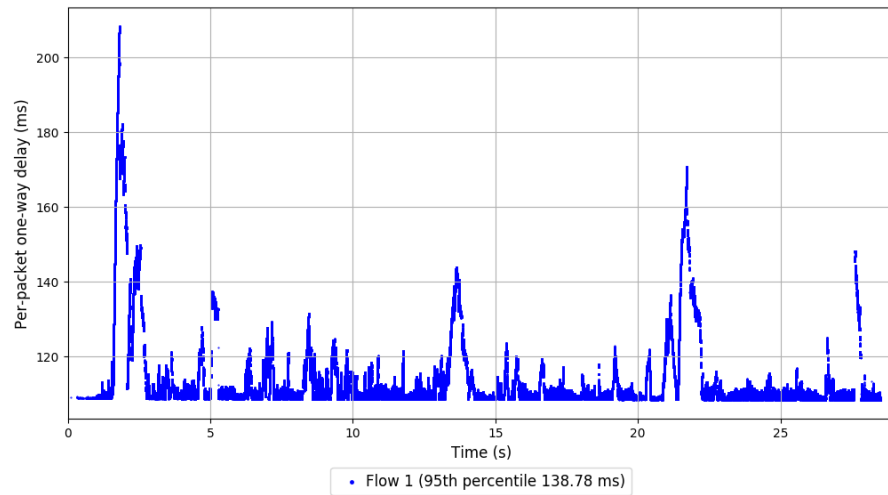
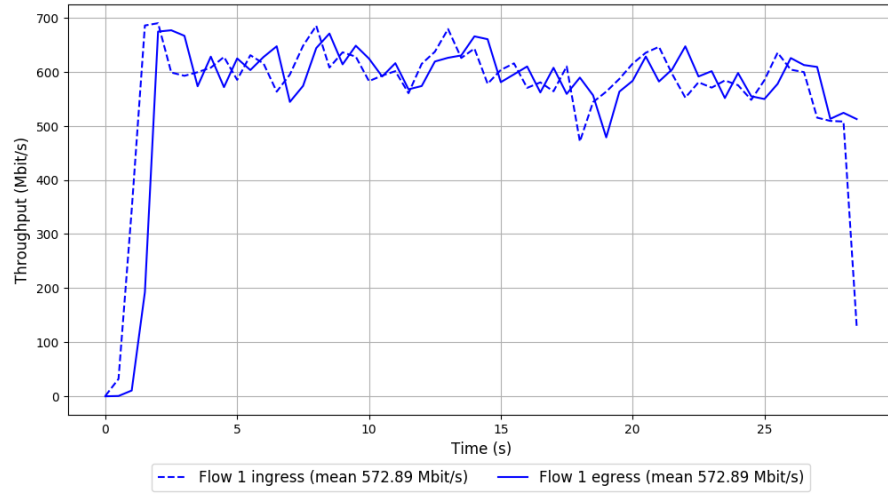


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-04-23 18:38:09  
End at: 2019-04-23 18:38:39  
Local clock offset: 24.967 ms  
Remote clock offset: -0.262 ms

# Below is generated by plot.py at 2019-04-23 21:17:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 572.89 Mbit/s  
95th percentile per-packet one-way delay: 138.779 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 572.89 Mbit/s  
95th percentile per-packet one-way delay: 138.779 ms  
Loss rate: 0.77%

## Run 2: Report of Indigo-MusesC3 — Data Link



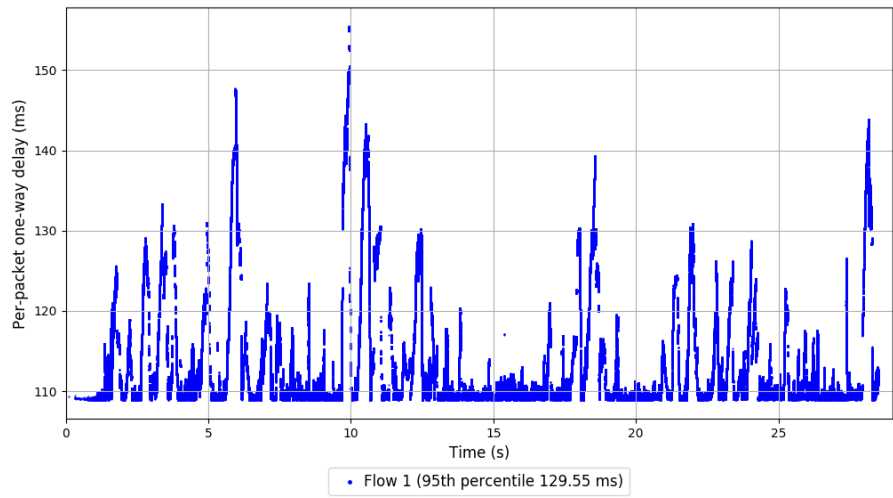
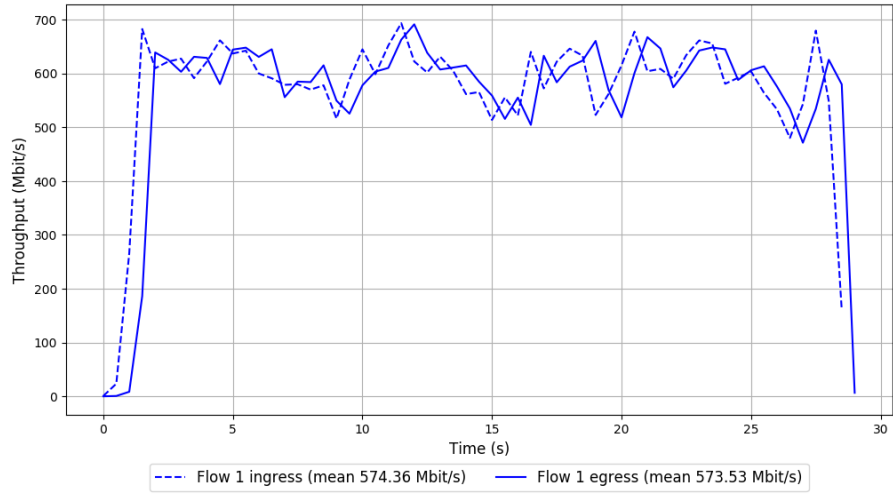


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-04-23 19:09:22  
End at: 2019-04-23 19:09:52  
Local clock offset: 14.965 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-04-23 21:17:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 573.53 Mbit/s  
95th percentile per-packet one-way delay: 129.553 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 573.53 Mbit/s  
95th percentile per-packet one-way delay: 129.553 ms  
Loss rate: 0.91%

### Run 3: Report of Indigo-MusesC3 — Data Link

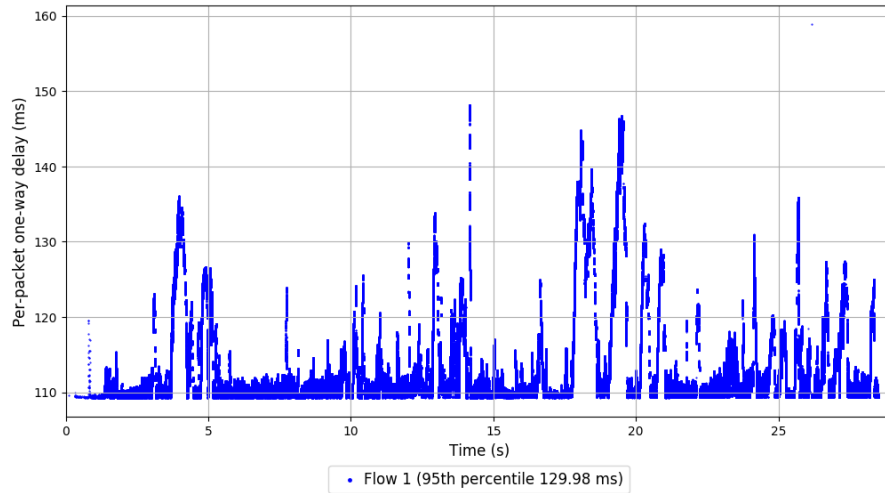
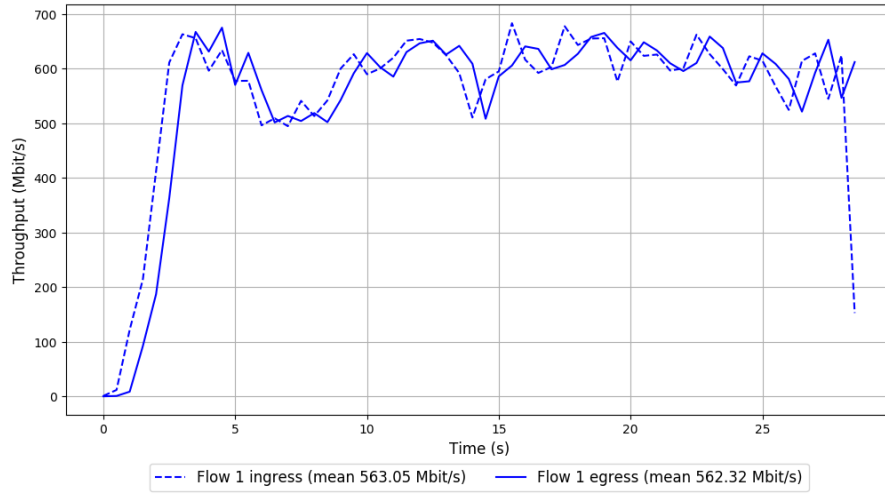


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-04-23 19:40:33  
End at: 2019-04-23 19:41:03  
Local clock offset: 7.848 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-04-23 21:19:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 562.32 Mbit/s  
95th percentile per-packet one-way delay: 129.980 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 562.32 Mbit/s  
95th percentile per-packet one-way delay: 129.980 ms  
Loss rate: 0.90%

### Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-04-23 20:11:46

End at: 2019-04-23 20:12:16

Local clock offset: 4.113 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-04-23 21:19:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 569.26 Mbit/s

95th percentile per-packet one-way delay: 128.436 ms

Loss rate: 0.94%

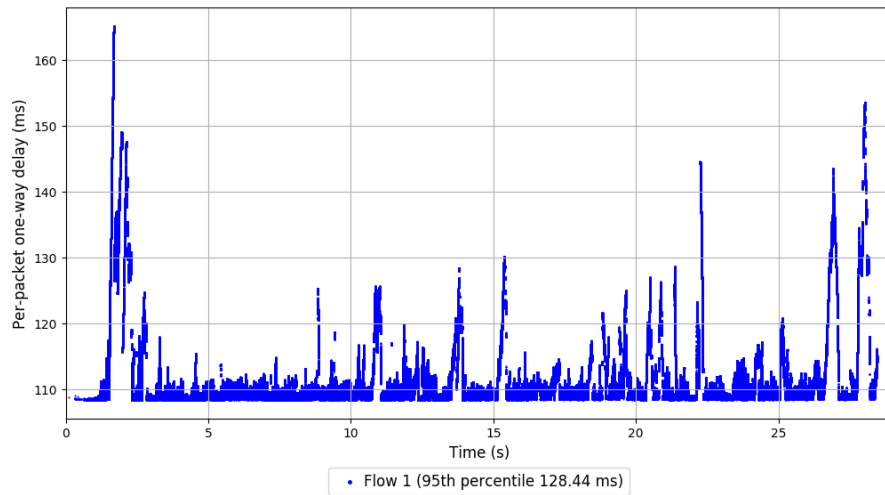
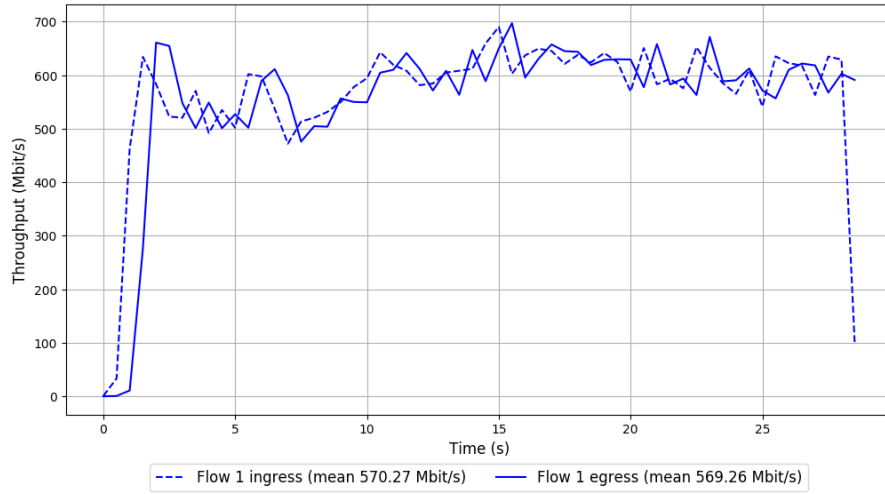
-- Flow 1:

Average throughput: 569.26 Mbit/s

95th percentile per-packet one-way delay: 128.436 ms

Loss rate: 0.94%

### Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

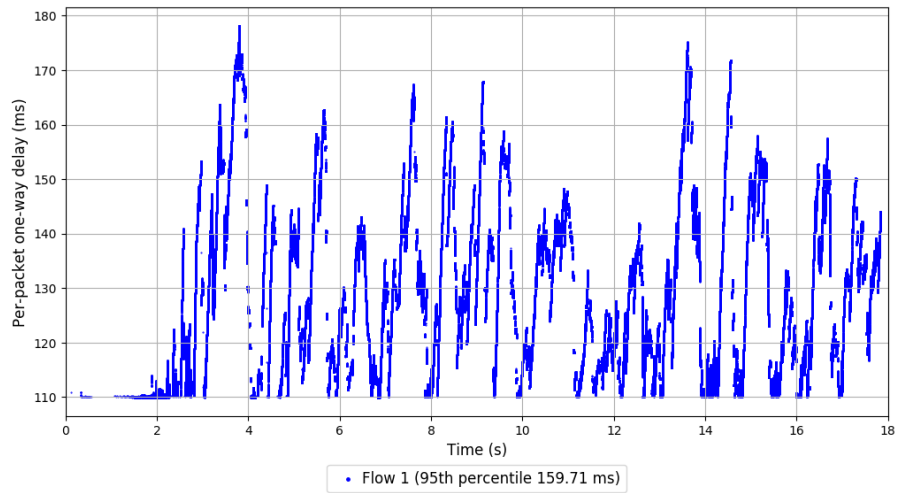
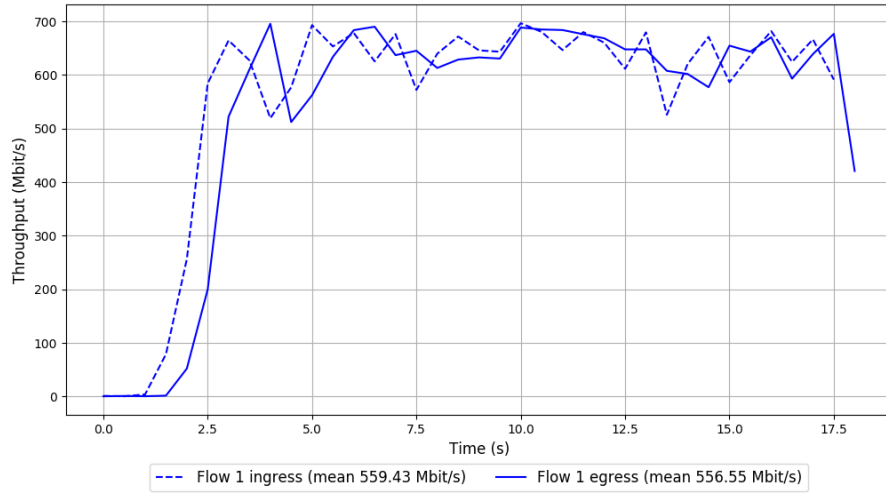
Start at: 2019-04-23 17:49:08

End at: 2019-04-23 17:49:38

Local clock offset: 7.502 ms

Remote clock offset: -0.057 ms

Run 1: Report of Indigo-MusesC5 — Data Link



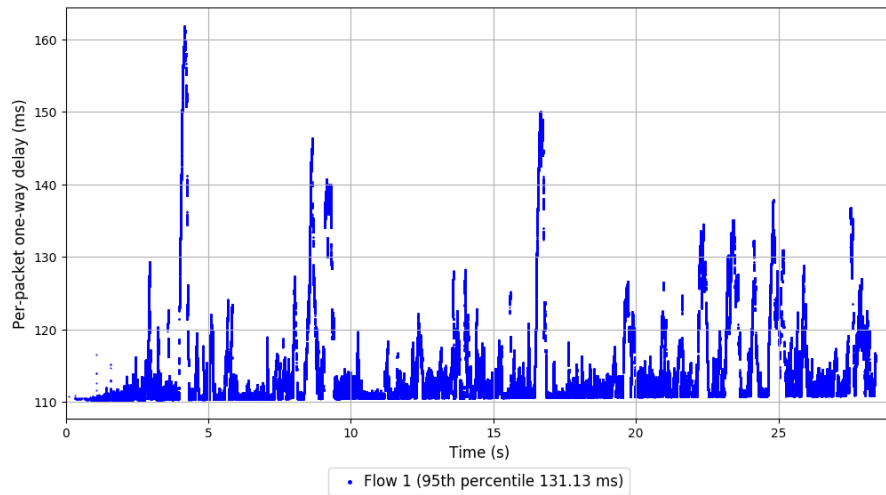
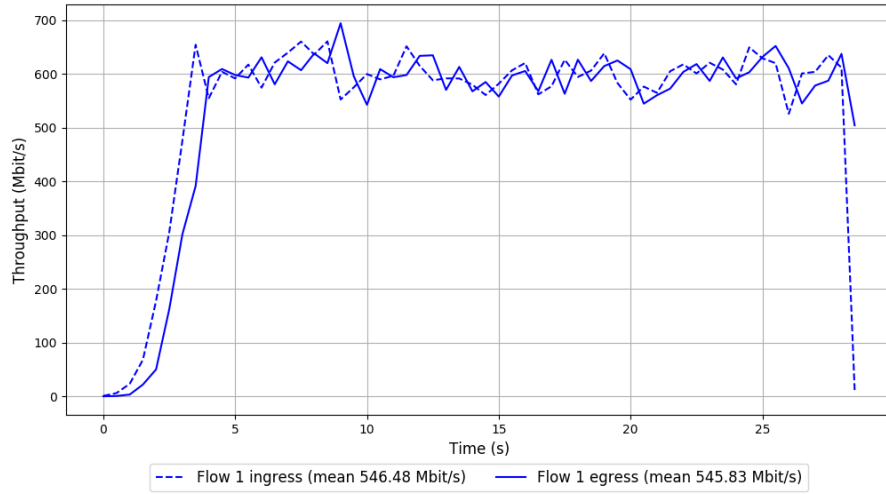


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-04-23 18:20:21  
End at: 2019-04-23 18:20:51  
Local clock offset: 24.538 ms  
Remote clock offset: -0.536 ms

# Below is generated by plot.py at 2019-04-23 21:24:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 545.83 Mbit/s  
95th percentile per-packet one-way delay: 131.129 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 545.83 Mbit/s  
95th percentile per-packet one-way delay: 131.129 ms  
Loss rate: 0.87%

## Run 2: Report of Indigo-MusesC5 — Data Link

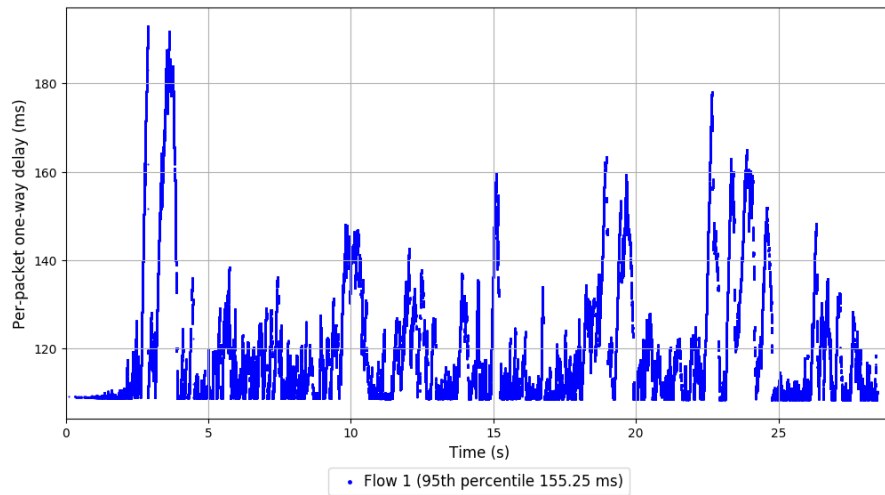
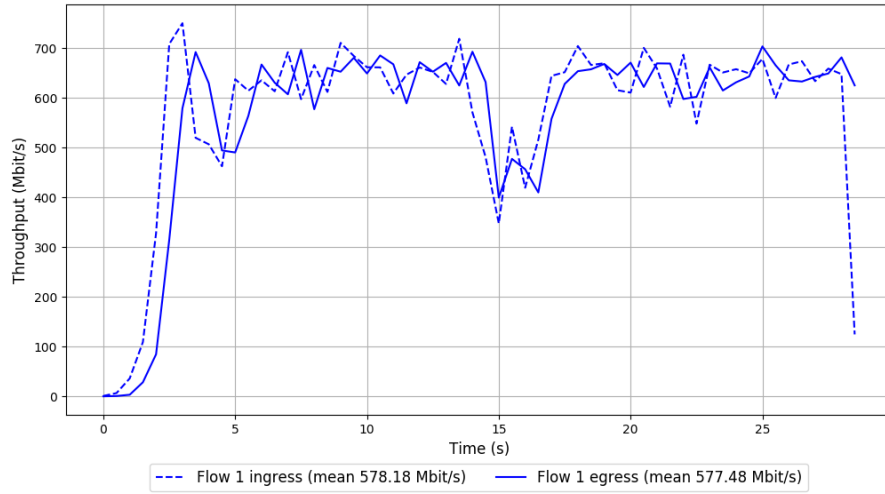


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-04-23 18:51:25  
End at: 2019-04-23 18:51:55  
Local clock offset: 38.115 ms  
Remote clock offset: -0.402 ms

# Below is generated by plot.py at 2019-04-23 21:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 577.48 Mbit/s  
95th percentile per-packet one-way delay: 155.251 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 577.48 Mbit/s  
95th percentile per-packet one-way delay: 155.251 ms  
Loss rate: 0.89%

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



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-04-23 19:22:44

End at: 2019-04-23 19:23:14

Local clock offset: 17.84 ms

Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2019-04-23 21:26:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 588.83 Mbit/s

95th percentile per-packet one-way delay: 161.619 ms

Loss rate: 1.07%

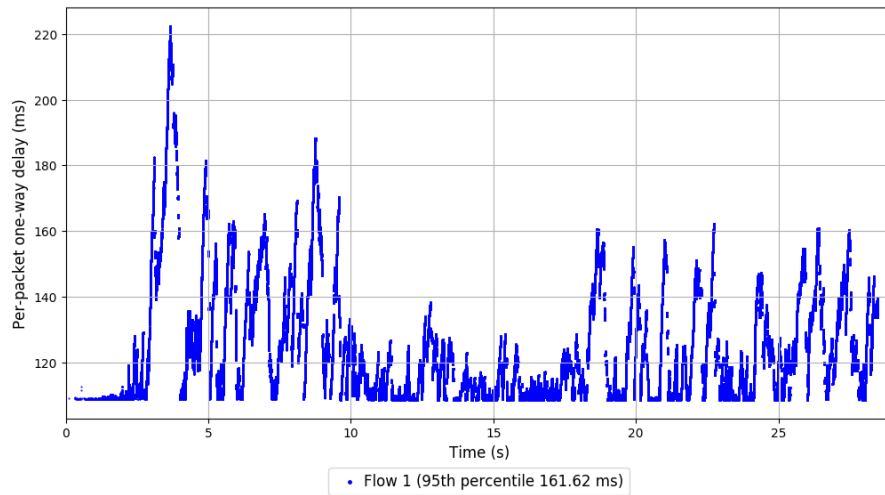
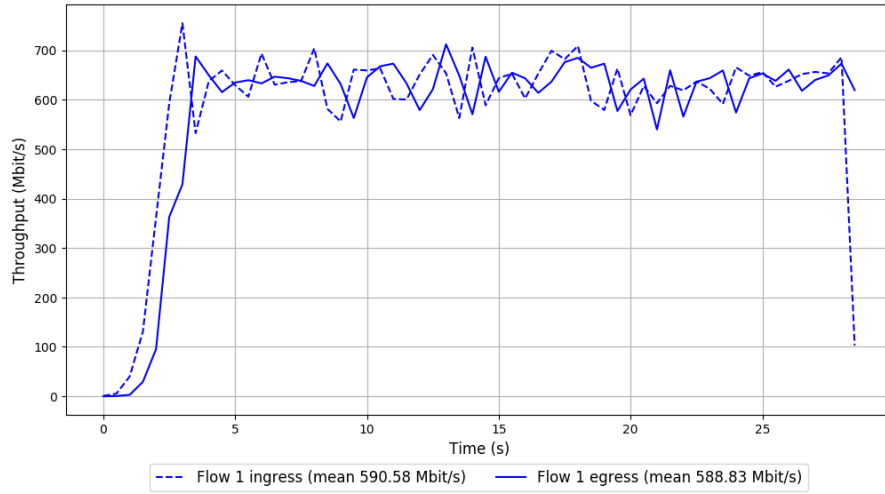
-- Flow 1:

Average throughput: 588.83 Mbit/s

95th percentile per-packet one-way delay: 161.619 ms

Loss rate: 1.07%

### Run 4: Report of Indigo-MusesC5 — Data Link

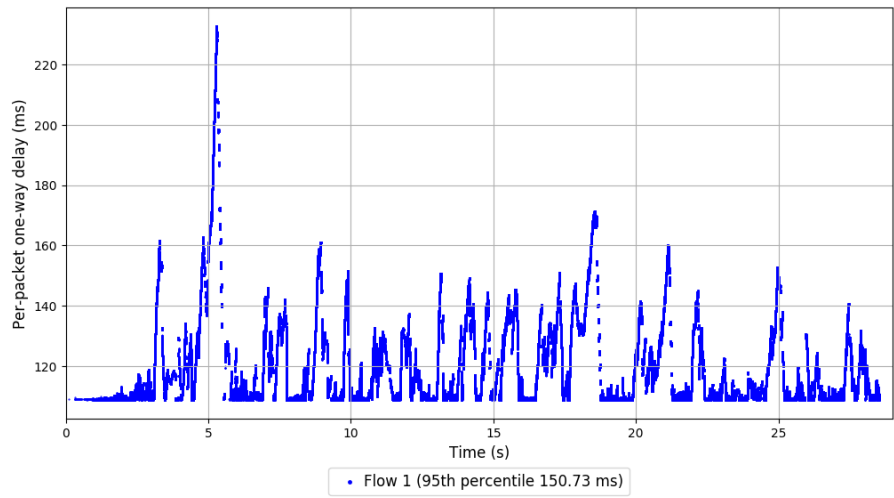
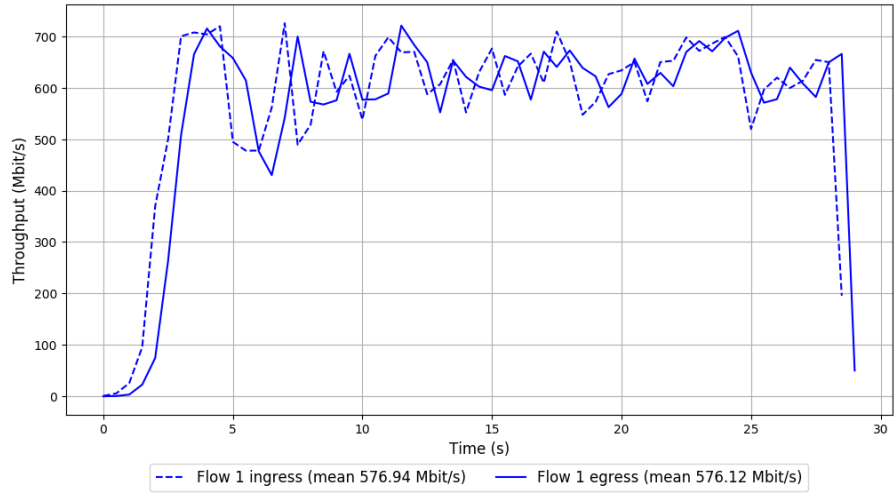


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-04-23 19:53:51  
End at: 2019-04-23 19:54:21  
Local clock offset: 8.163 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-04-23 21:26:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 576.12 Mbit/s  
95th percentile per-packet one-way delay: 150.726 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 576.12 Mbit/s  
95th percentile per-packet one-way delay: 150.726 ms  
Loss rate: 0.91%

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





Run 1: Statistics of Indigo-MusesD

Start at: 2019-04-23 17:50:36

End at: 2019-04-23 17:51:06

Local clock offset: 6.278 ms

Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-04-23 21:26:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 529.68 Mbit/s

95th percentile per-packet one-way delay: 120.102 ms

Loss rate: 0.62%

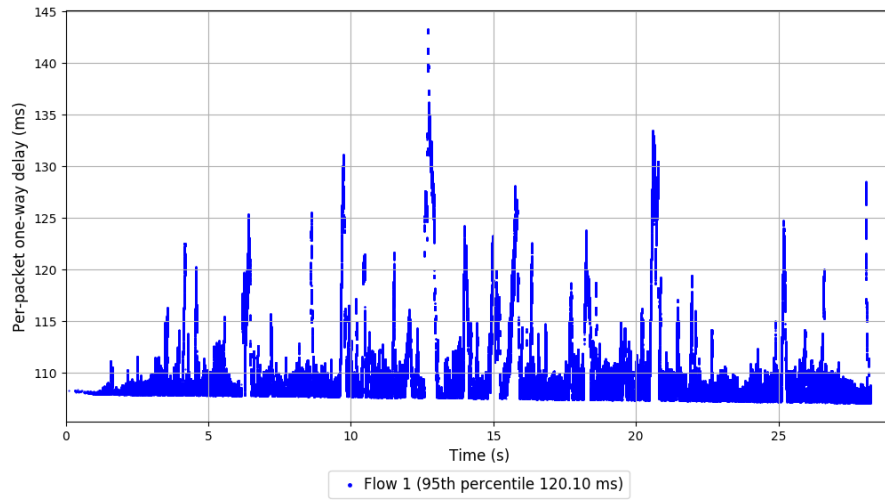
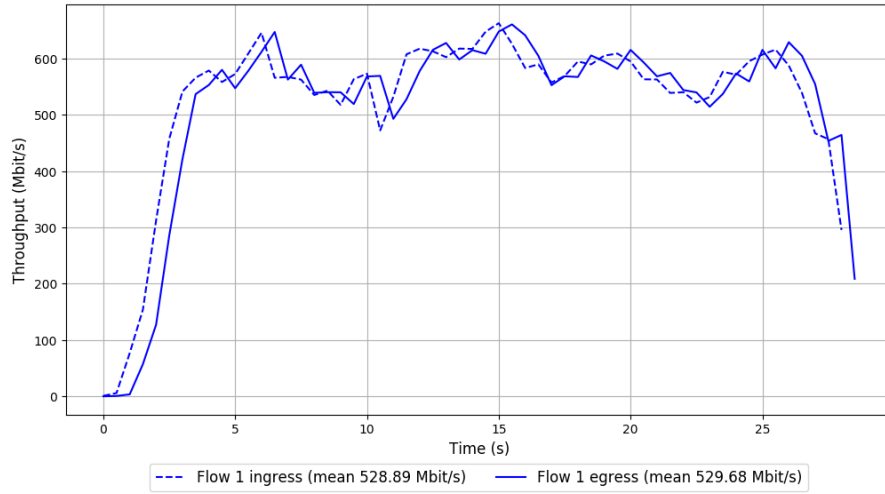
-- Flow 1:

Average throughput: 529.68 Mbit/s

95th percentile per-packet one-way delay: 120.102 ms

Loss rate: 0.62%

Run 1: Report of Indigo-MusesD — Data Link

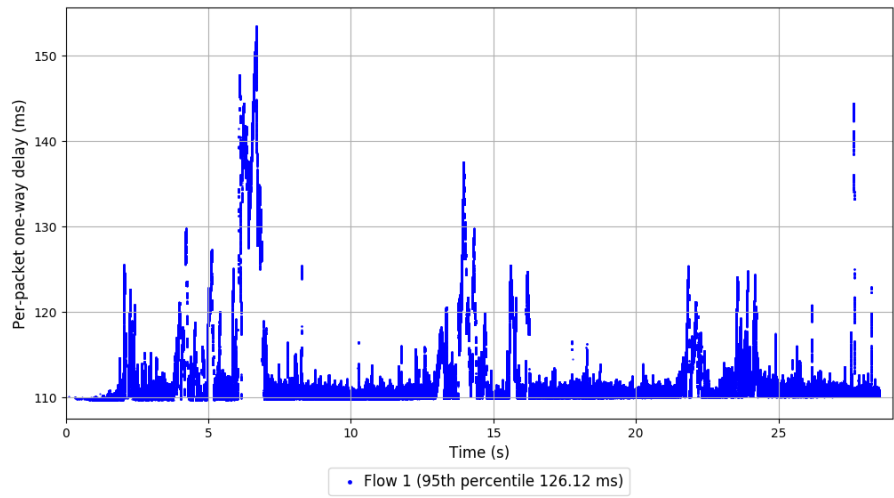
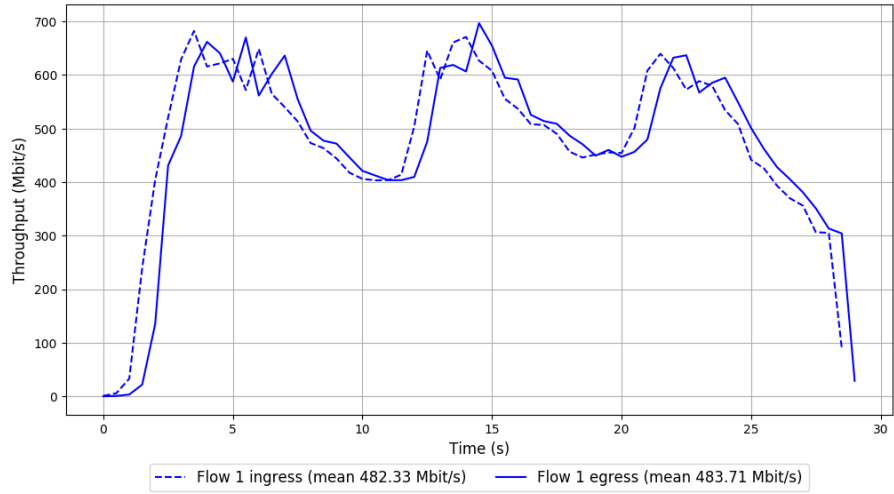


Run 2: Statistics of Indigo-MusesD

Start at: 2019-04-23 18:21:59  
End at: 2019-04-23 18:22:29  
Local clock offset: 22.108 ms  
Remote clock offset: -0.447 ms

# Below is generated by plot.py at 2019-04-23 21:27:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 483.71 Mbit/s  
95th percentile per-packet one-way delay: 126.125 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 483.71 Mbit/s  
95th percentile per-packet one-way delay: 126.125 ms  
Loss rate: 0.48%

## Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-04-23 18:53:04

End at: 2019-04-23 18:53:34

Local clock offset: 39.411 ms

Remote clock offset: -0.416 ms

# Below is generated by plot.py at 2019-04-23 21:29:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 548.71 Mbit/s

95th percentile per-packet one-way delay: 152.239 ms

Loss rate: 0.67%

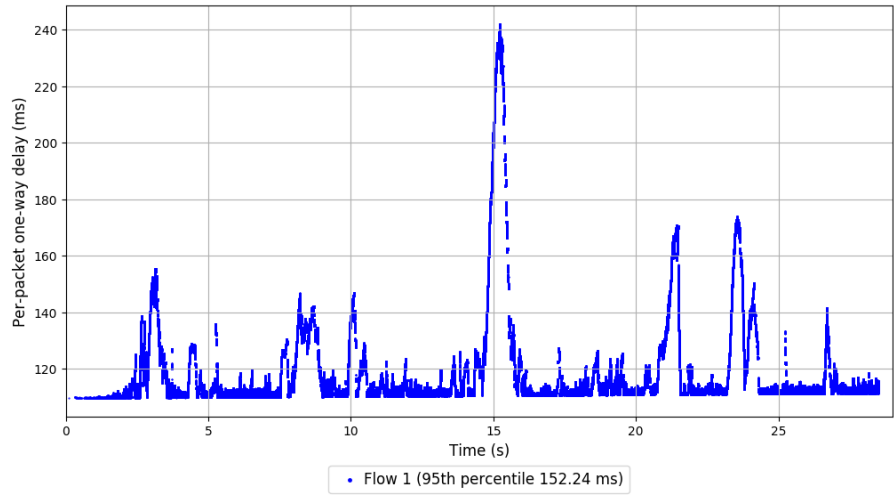
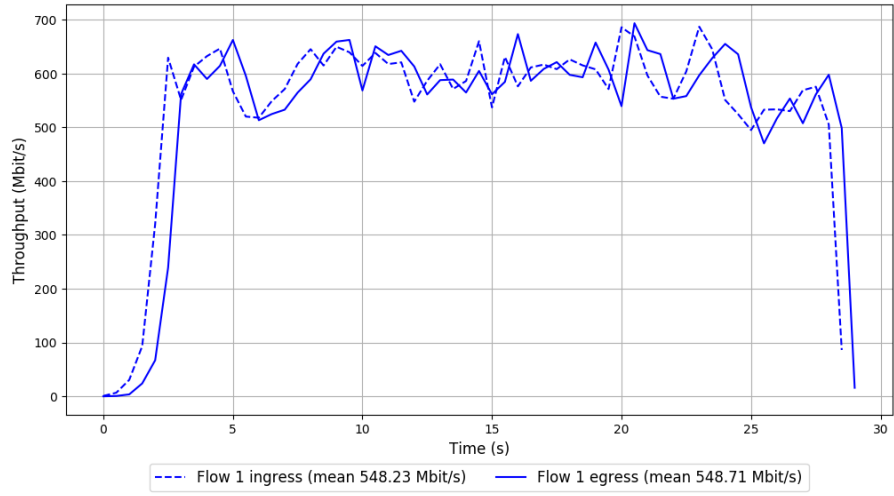
-- Flow 1:

Average throughput: 548.71 Mbit/s

95th percentile per-packet one-way delay: 152.239 ms

Loss rate: 0.67%

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



Run 4: Statistics of Indigo-MusesD

Start at: 2019-04-23 19:24:24

End at: 2019-04-23 19:24:54

Local clock offset: 18.688 ms

Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-04-23 21:29:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 507.35 Mbit/s

95th percentile per-packet one-way delay: 123.314 ms

Loss rate: 0.77%

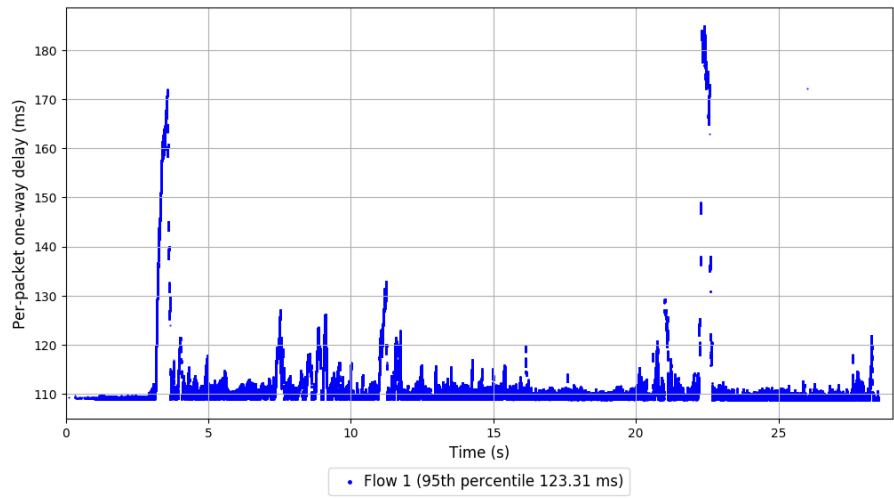
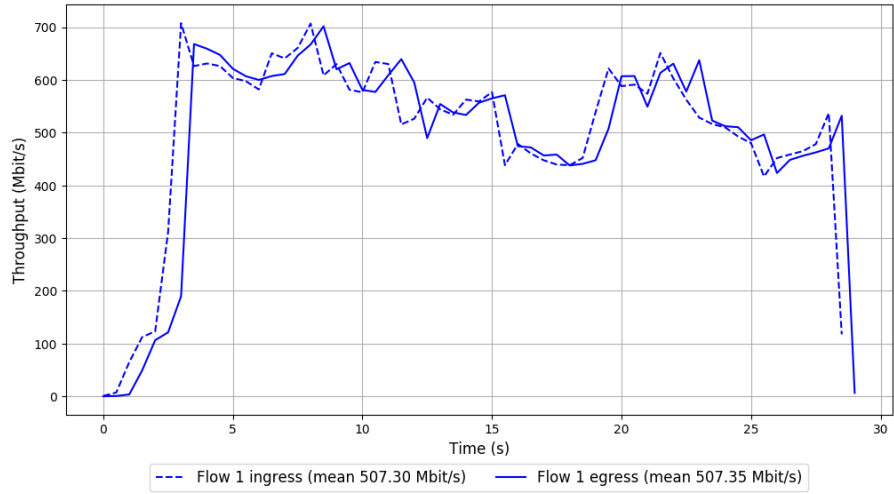
-- Flow 1:

Average throughput: 507.35 Mbit/s

95th percentile per-packet one-way delay: 123.314 ms

Loss rate: 0.77%

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





Run 5: Statistics of Indigo-MusesD

Start at: 2019-04-23 19:55:32

End at: 2019-04-23 19:56:02

Local clock offset: 9.122 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-04-23 21:31:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 486.29 Mbit/s

95th percentile per-packet one-way delay: 154.669 ms

Loss rate: 0.84%

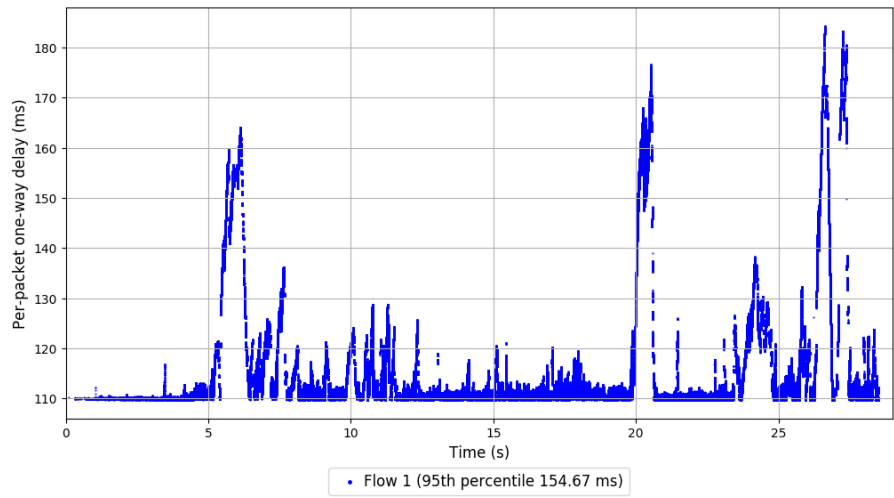
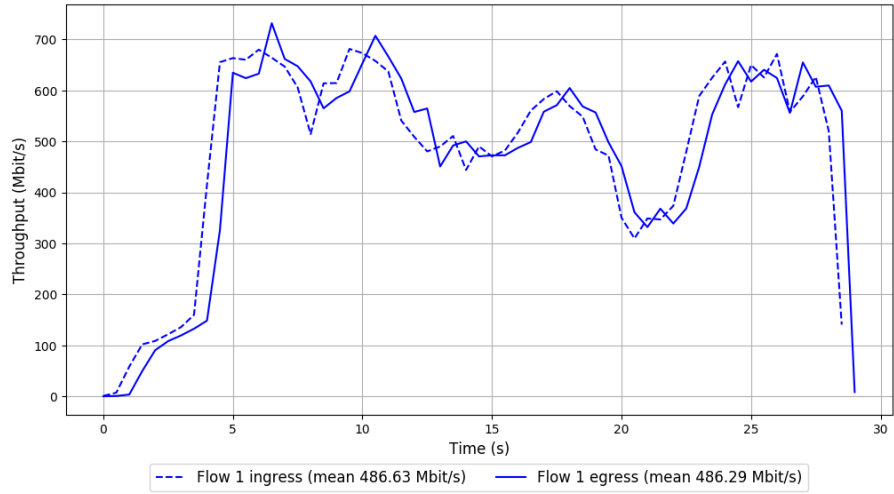
-- Flow 1:

Average throughput: 486.29 Mbit/s

95th percentile per-packet one-way delay: 154.669 ms

Loss rate: 0.84%

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



Run 1: Statistics of Indigo-MuseST

Start at: 2019-04-23 18:03:47

End at: 2019-04-23 18:04:17

Local clock offset: 14.201 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-04-23 21:36:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 621.96 Mbit/s

95th percentile per-packet one-way delay: 187.226 ms

Loss rate: 0.87%

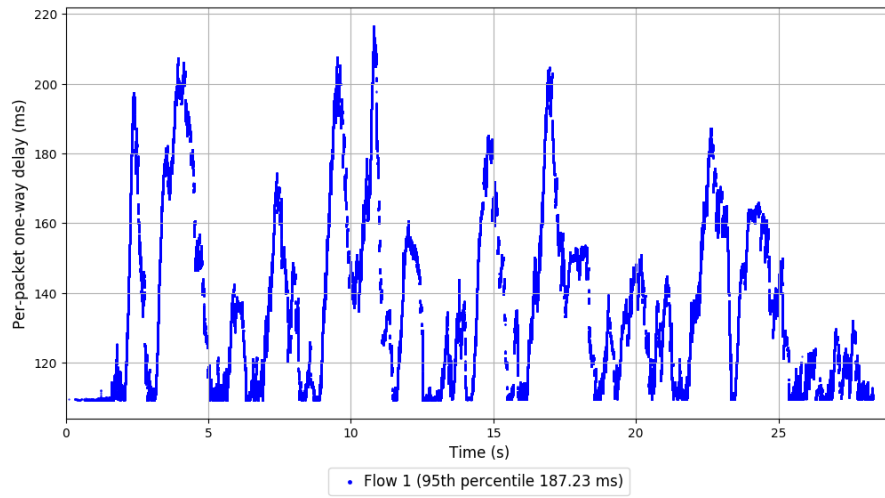
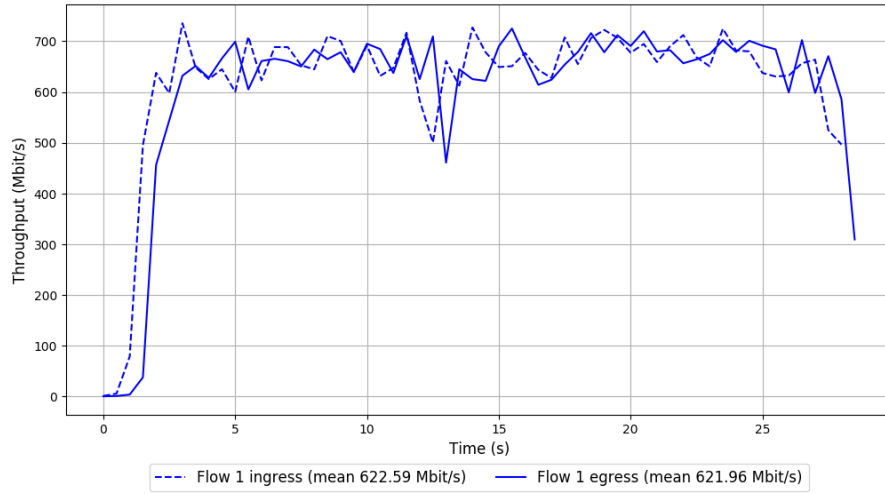
-- Flow 1:

Average throughput: 621.96 Mbit/s

95th percentile per-packet one-way delay: 187.226 ms

Loss rate: 0.87%

Run 1: Report of Indigo-MusesT — Data Link

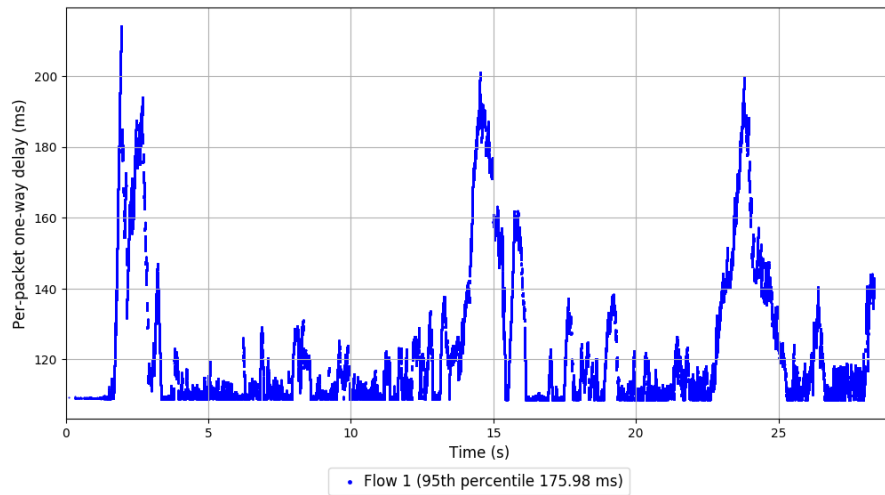
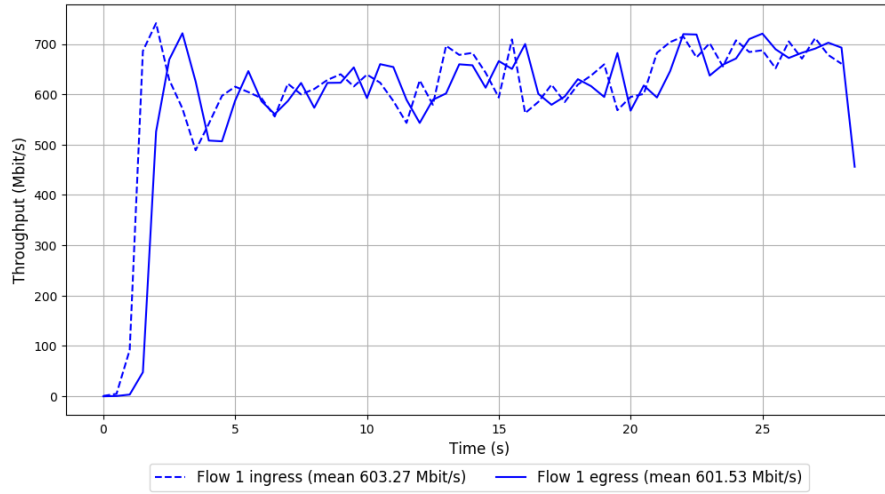


Run 2: Statistics of Indigo-MuseST

Start at: 2019-04-23 18:34:57  
End at: 2019-04-23 18:35:27  
Local clock offset: 22.567 ms  
Remote clock offset: -0.306 ms

# Below is generated by plot.py at 2019-04-23 21:36:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 601.53 Mbit/s  
95th percentile per-packet one-way delay: 175.980 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 601.53 Mbit/s  
95th percentile per-packet one-way delay: 175.980 ms  
Loss rate: 1.06%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-04-23 19:06:06

End at: 2019-04-23 19:06:36

Local clock offset: 16.071 ms

Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-04-23 21:36:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 593.78 Mbit/s

95th percentile per-packet one-way delay: 168.046 ms

Loss rate: 0.92%

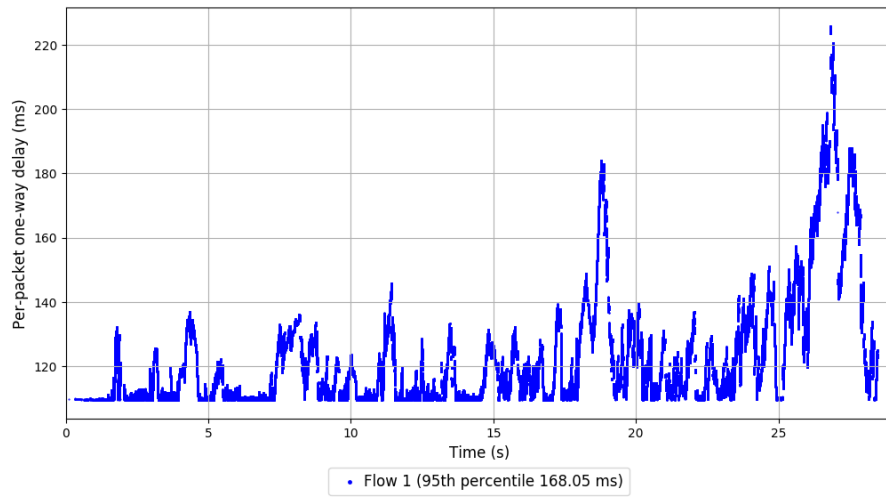
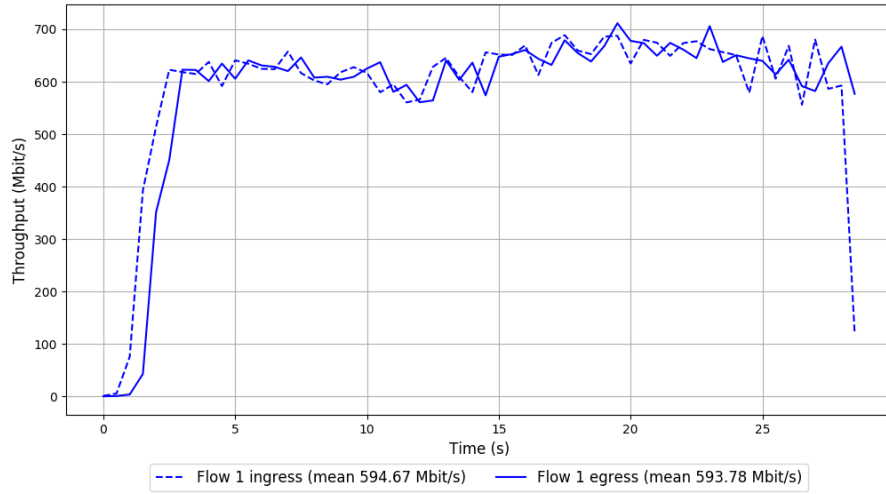
-- Flow 1:

Average throughput: 593.78 Mbit/s

95th percentile per-packet one-way delay: 168.046 ms

Loss rate: 0.92%

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





Run 4: Statistics of Indigo-MuseST

Start at: 2019-04-23 19:37:13

End at: 2019-04-23 19:37:43

Local clock offset: 8.964 ms

Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-04-23 21:37:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 635.02 Mbit/s

95th percentile per-packet one-way delay: 187.802 ms

Loss rate: 1.11%

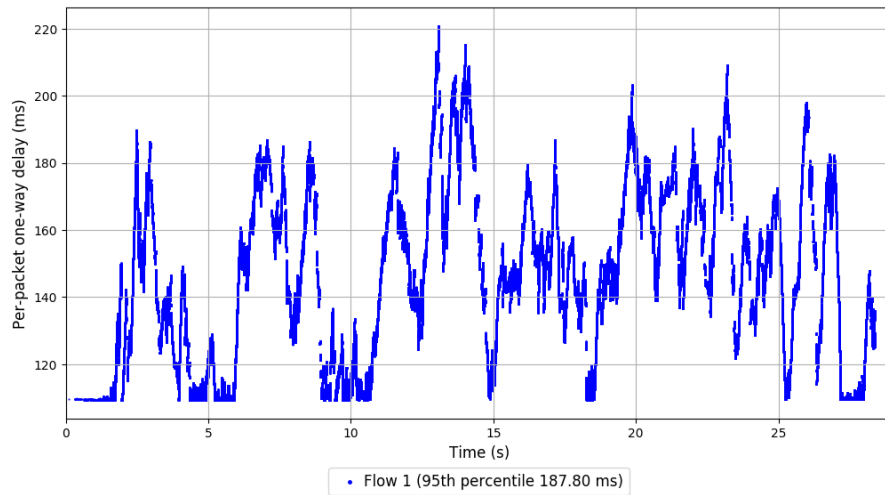
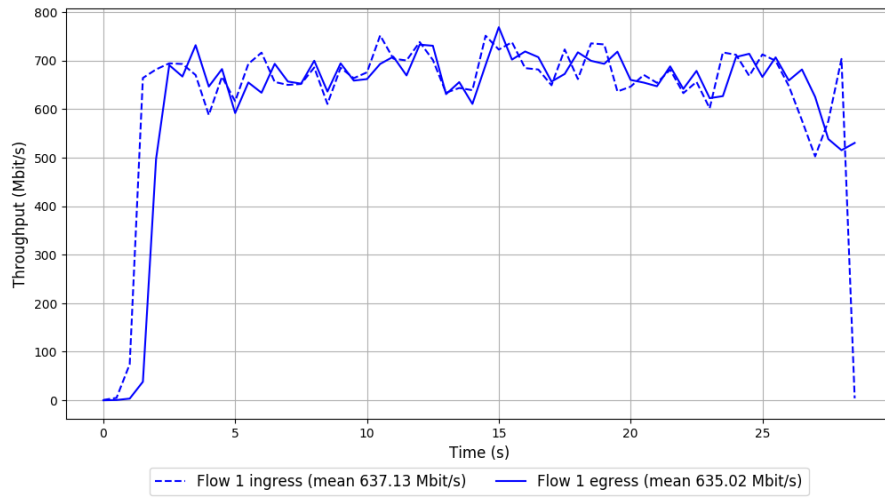
-- Flow 1:

Average throughput: 635.02 Mbit/s

95th percentile per-packet one-way delay: 187.802 ms

Loss rate: 1.11%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-04-23 20:08:31

End at: 2019-04-23 20:09:01

Local clock offset: 5.136 ms

Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-04-23 21:37:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 624.77 Mbit/s

95th percentile per-packet one-way delay: 191.872 ms

Loss rate: 0.92%

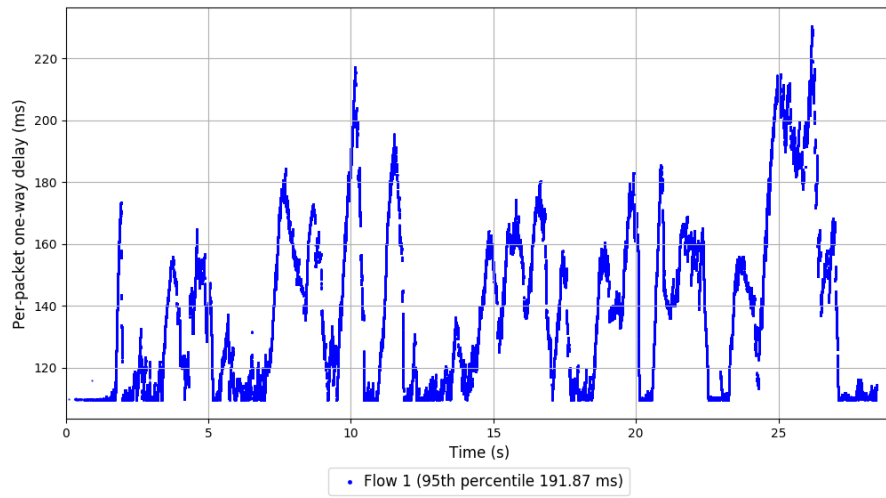
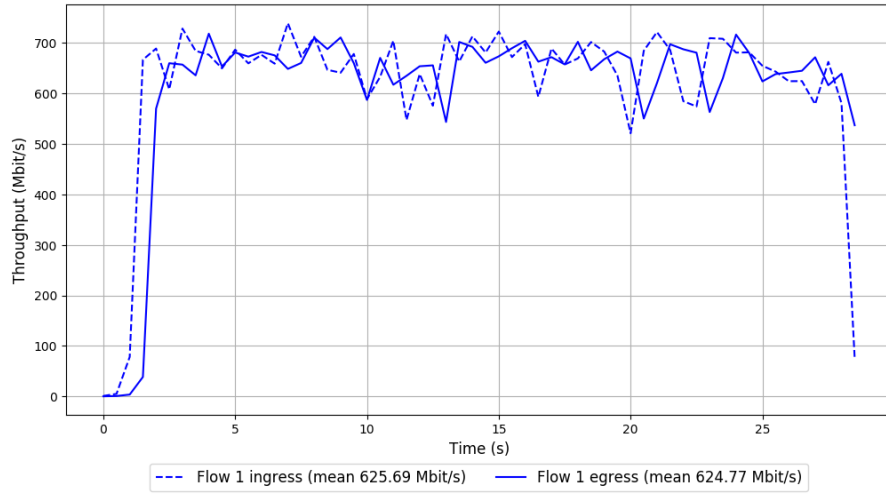
-- Flow 1:

Average throughput: 624.77 Mbit/s

95th percentile per-packet one-way delay: 191.872 ms

Loss rate: 0.92%

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

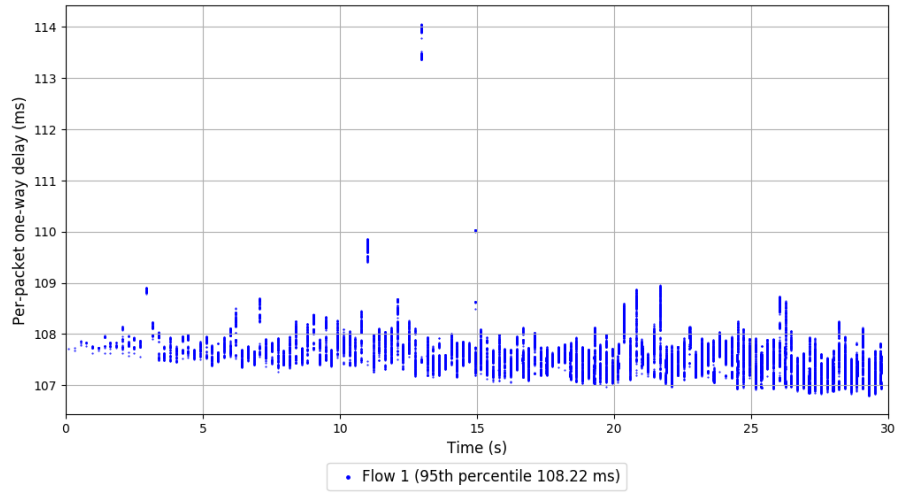
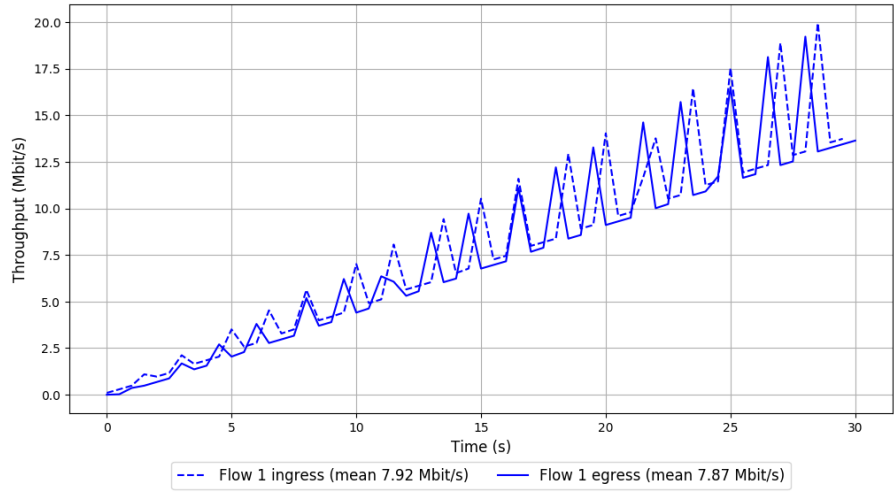


Run 1: Statistics of LEDBAT

Start at: 2019-04-23 18:11:54  
End at: 2019-04-23 18:12:24  
Local clock offset: 16.774 ms  
Remote clock offset: -0.512 ms

# Below is generated by plot.py at 2019-04-23 21:37:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.87 Mbit/s  
95th percentile per-packet one-way delay: 108.223 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 7.87 Mbit/s  
95th percentile per-packet one-way delay: 108.223 ms  
Loss rate: 1.46%

### Run 1: Report of LEDBAT — Data Link

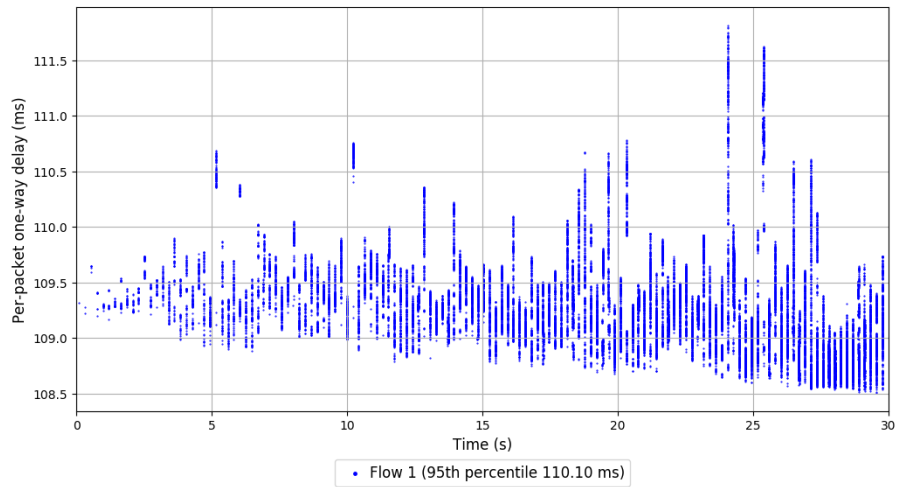
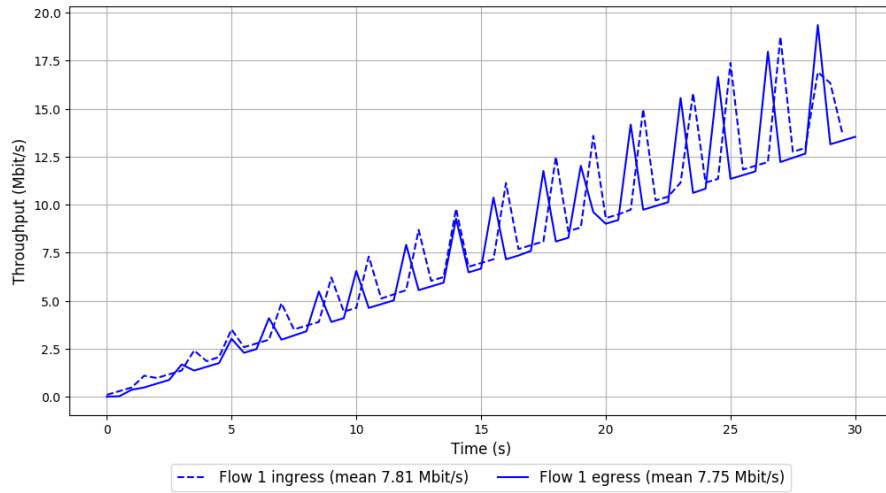


Run 2: Statistics of LEDBAT

Start at: 2019-04-23 18:42:48  
End at: 2019-04-23 18:43:18  
Local clock offset: 29.285 ms  
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-04-23 21:37:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.75 Mbit/s  
95th percentile per-packet one-way delay: 110.099 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 7.75 Mbit/s  
95th percentile per-packet one-way delay: 110.099 ms  
Loss rate: 1.47%

Run 2: Report of LEDBAT — Data Link



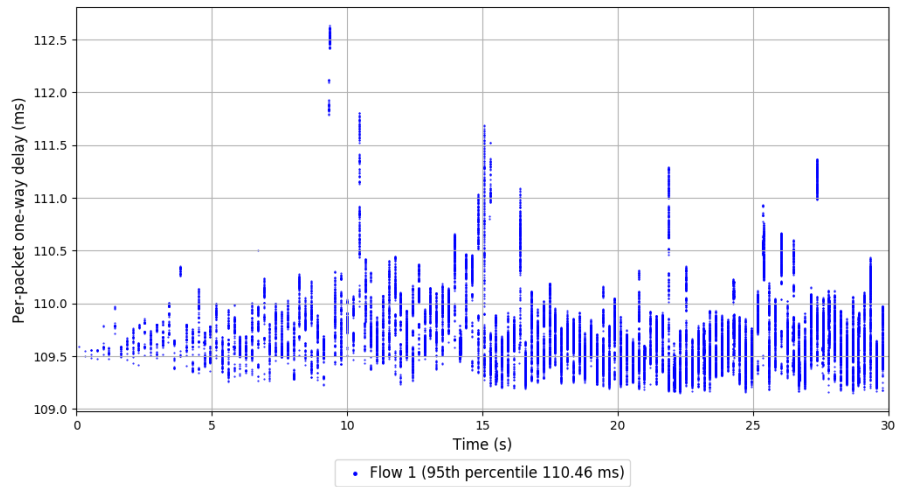
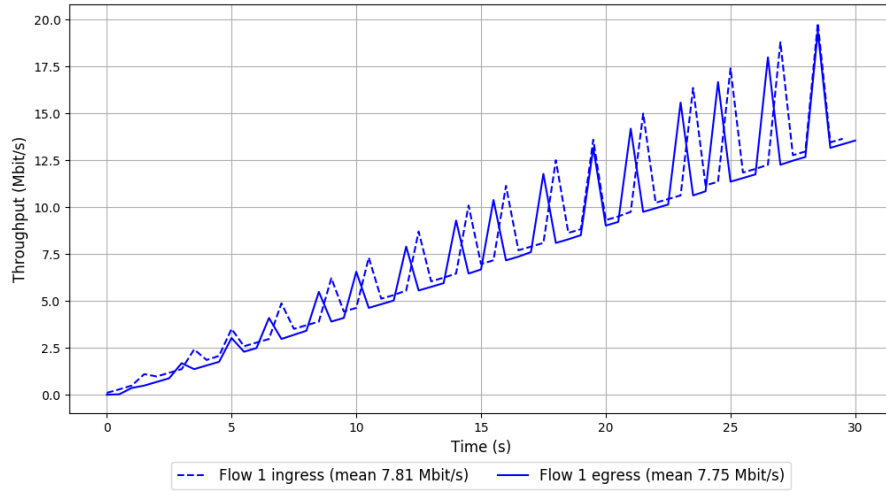


Run 3: Statistics of LEDBAT

Start at: 2019-04-23 19:14:12  
End at: 2019-04-23 19:14:42  
Local clock offset: 15.47 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-04-23 21:37:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.75 Mbit/s  
95th percentile per-packet one-way delay: 110.463 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 7.75 Mbit/s  
95th percentile per-packet one-way delay: 110.463 ms  
Loss rate: 1.47%

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

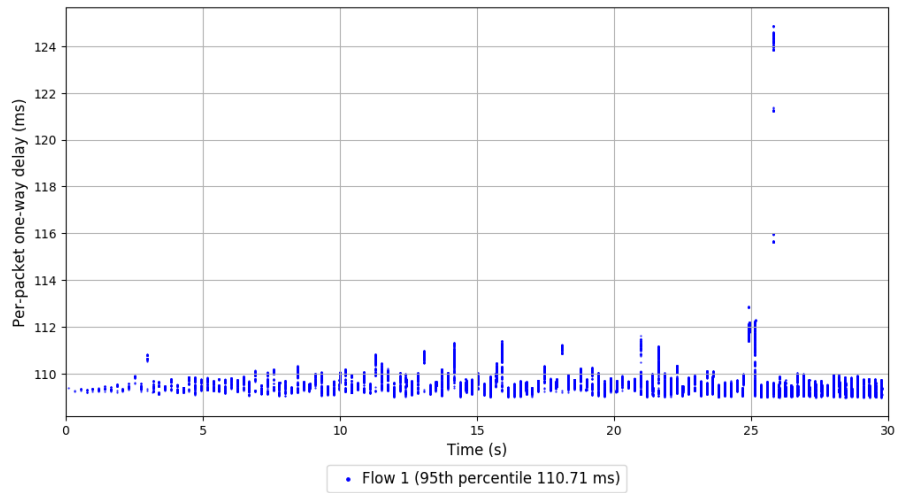
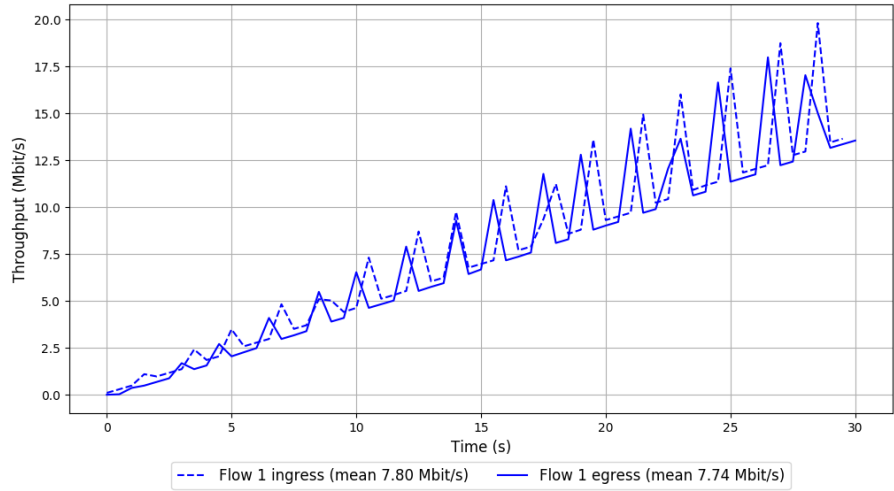


Run 4: Statistics of LEDBAT

Start at: 2019-04-23 19:45:19  
End at: 2019-04-23 19:45:49  
Local clock offset: 7.424 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-04-23 21:37:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.74 Mbit/s  
95th percentile per-packet one-way delay: 110.709 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 7.74 Mbit/s  
95th percentile per-packet one-way delay: 110.709 ms  
Loss rate: 1.47%

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

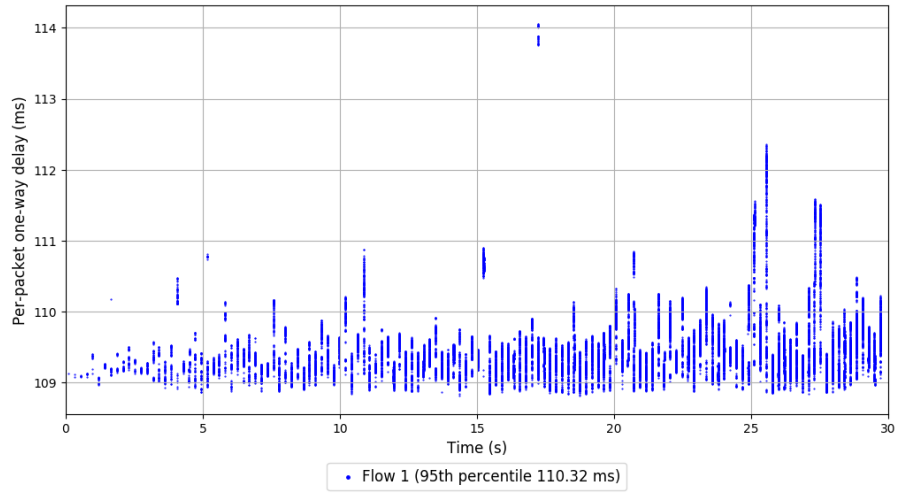
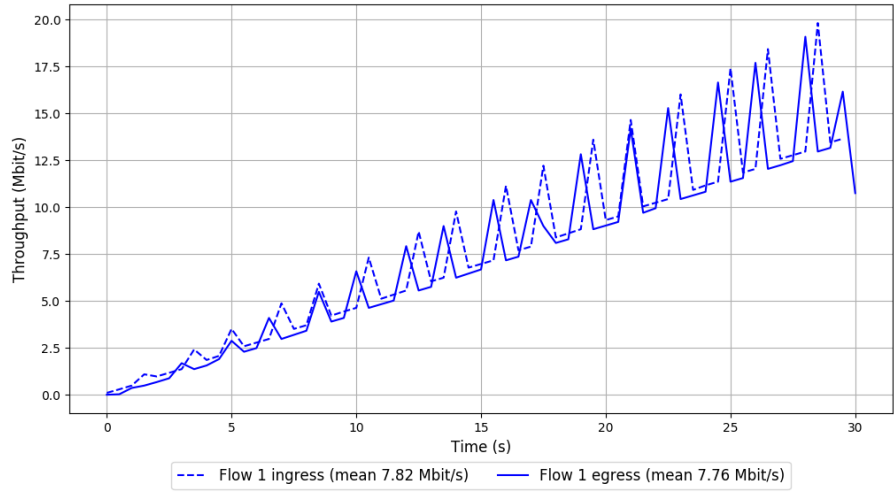


Run 5: Statistics of LEDBAT

Start at: 2019-04-23 20:16:35  
End at: 2019-04-23 20:17:05  
Local clock offset: 3.468 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-04-23 21:37:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.76 Mbit/s  
95th percentile per-packet one-way delay: 110.324 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 7.76 Mbit/s  
95th percentile per-packet one-way delay: 110.324 ms  
Loss rate: 1.47%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-04-23 18:05:29

End at: 2019-04-23 18:05:59

Local clock offset: 13.324 ms

Remote clock offset: -0.342 ms

# Below is generated by plot.py at 2019-04-23 21:42:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 373.51 Mbit/s

95th percentile per-packet one-way delay: 238.504 ms

Loss rate: 2.78%

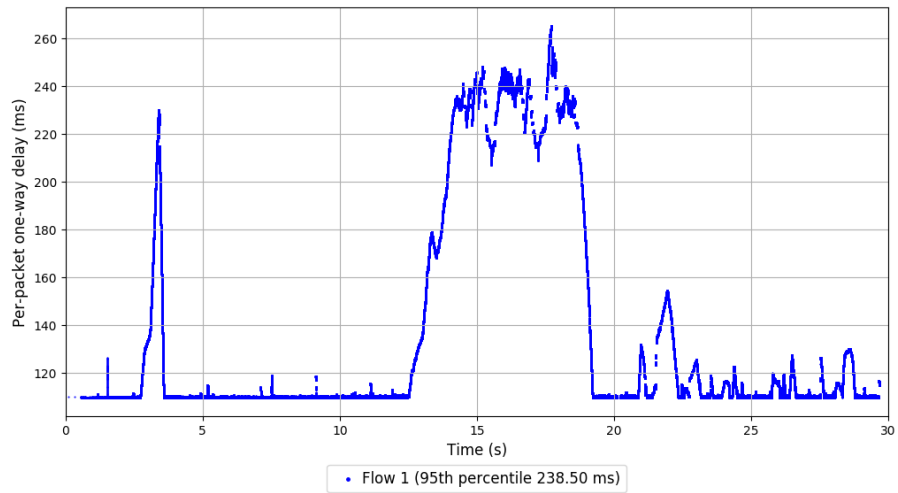
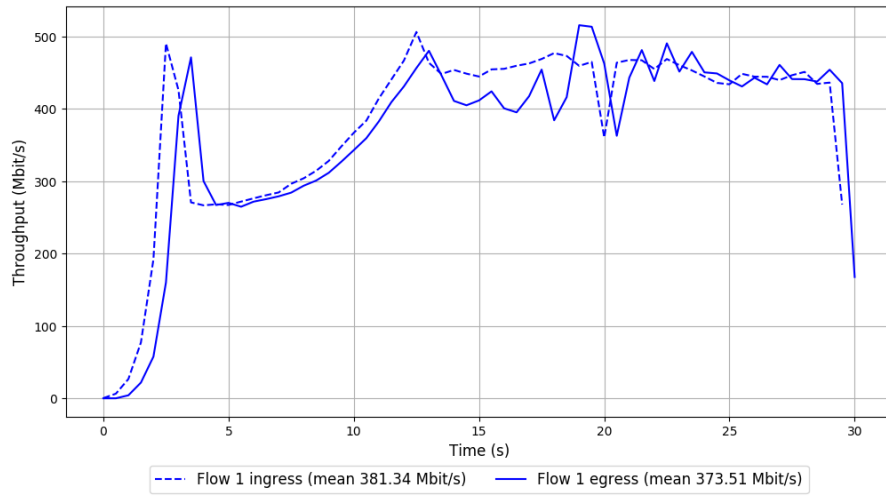
-- Flow 1:

Average throughput: 373.51 Mbit/s

95th percentile per-packet one-way delay: 238.504 ms

Loss rate: 2.78%

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



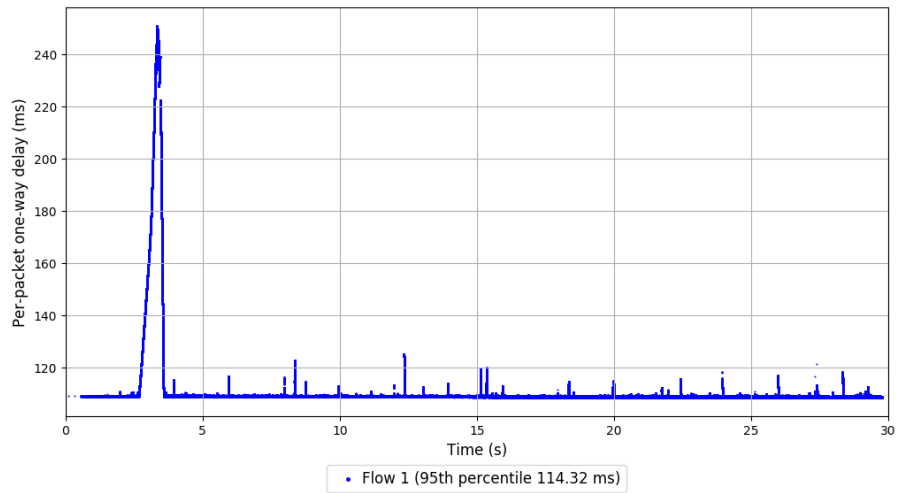
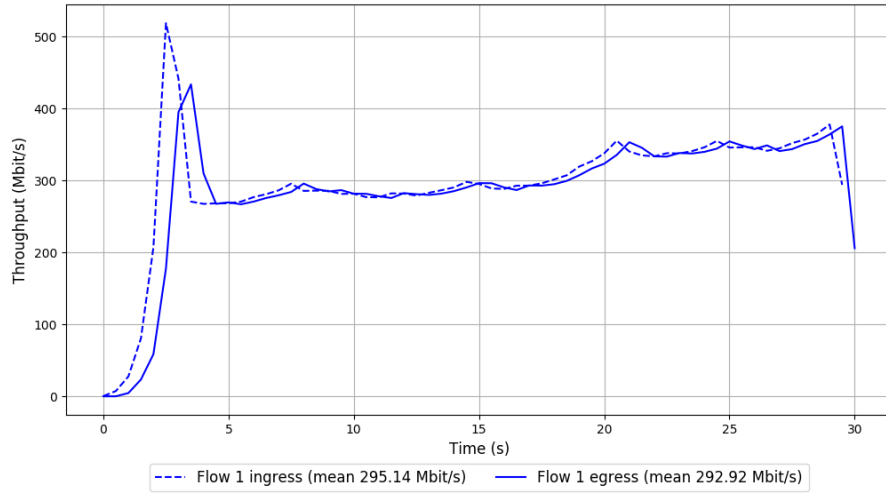


Run 2: Statistics of PCC-Allegro

Start at: 2019-04-23 18:36:38  
End at: 2019-04-23 18:37:08  
Local clock offset: 23.753 ms  
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2019-04-23 21:42:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 292.92 Mbit/s  
95th percentile per-packet one-way delay: 114.321 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 292.92 Mbit/s  
95th percentile per-packet one-way delay: 114.321 ms  
Loss rate: 1.49%

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



Run 3: Statistics of PCC-Allegro

Start at: 2019-04-23 19:07:46

End at: 2019-04-23 19:08:16

Local clock offset: 15.501 ms

Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-04-23 21:45:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 362.91 Mbit/s

95th percentile per-packet one-way delay: 163.468 ms

Loss rate: 1.20%

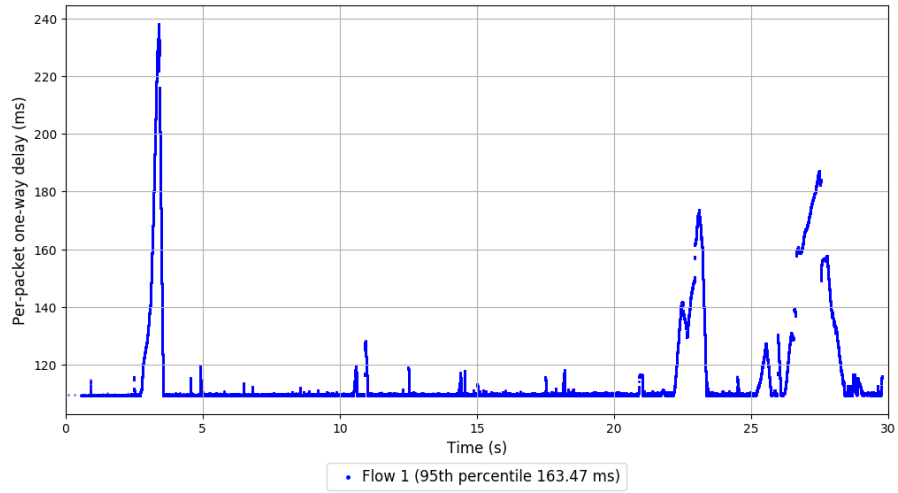
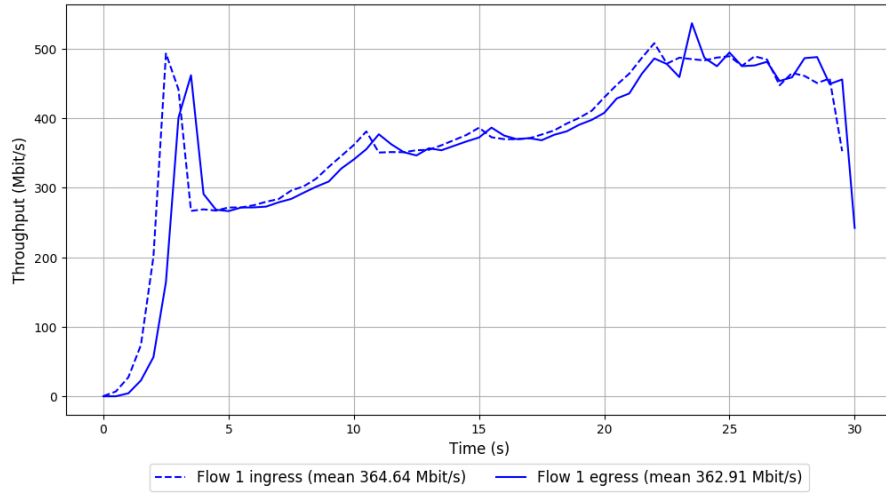
-- Flow 1:

Average throughput: 362.91 Mbit/s

95th percentile per-packet one-way delay: 163.468 ms

Loss rate: 1.20%

### Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-04-23 19:38:55

End at: 2019-04-23 19:39:25

Local clock offset: 8.406 ms

Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-04-23 21:50:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 382.53 Mbit/s

95th percentile per-packet one-way delay: 138.654 ms

Loss rate: 1.17%

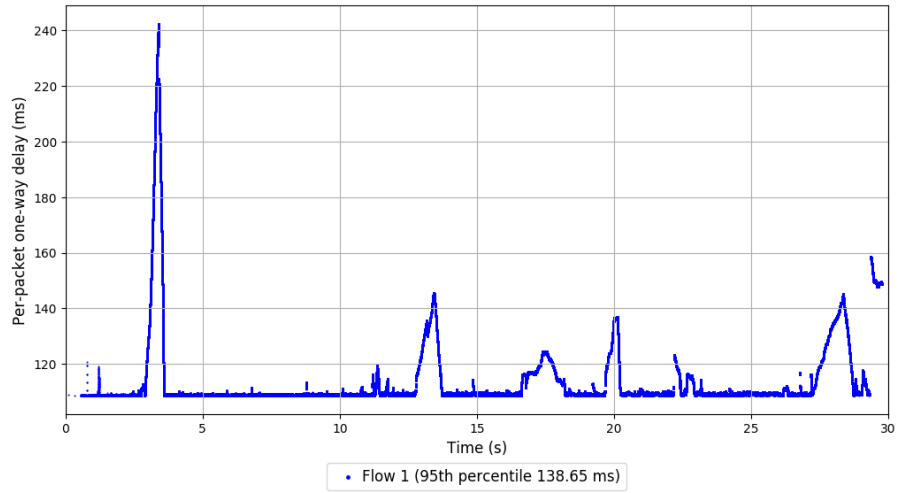
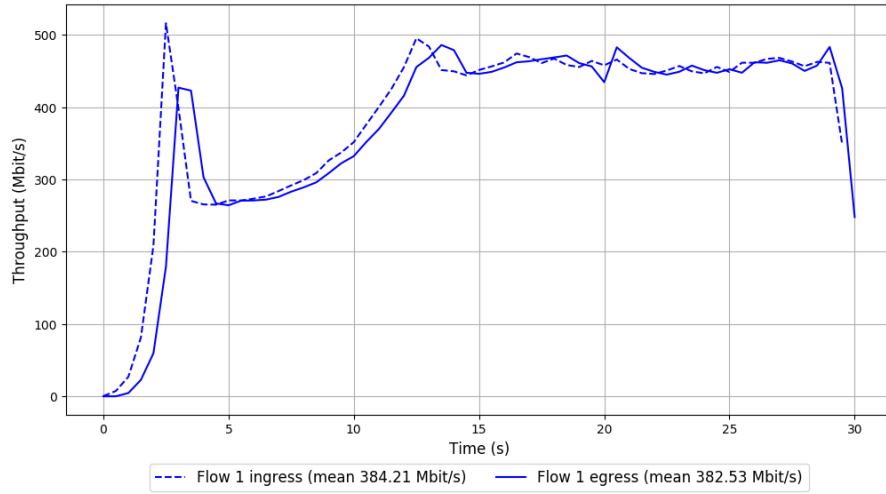
-- Flow 1:

Average throughput: 382.53 Mbit/s

95th percentile per-packet one-way delay: 138.654 ms

Loss rate: 1.17%

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



Run 5: Statistics of PCC-Allegro

Start at: 2019-04-23 20:10:13

End at: 2019-04-23 20:10:43

Local clock offset: 4.524 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-04-23 21:50:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.47 Mbit/s

95th percentile per-packet one-way delay: 217.275 ms

Loss rate: 2.00%

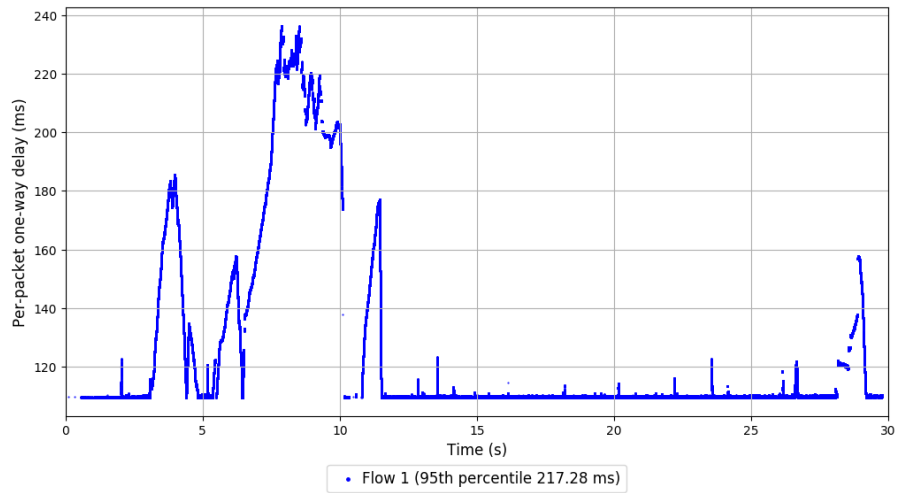
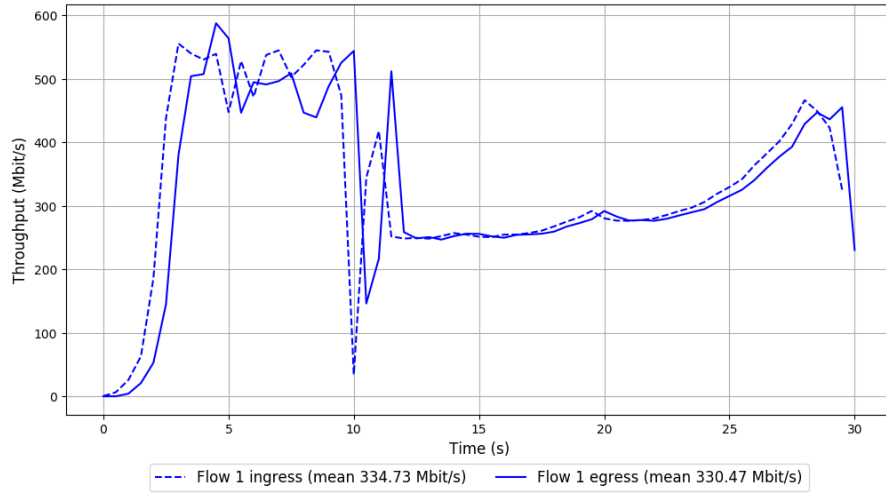
-- Flow 1:

Average throughput: 330.47 Mbit/s

95th percentile per-packet one-way delay: 217.275 ms

Loss rate: 2.00%

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





Run 1: Statistics of PCC-Expr

Start at: 2019-04-23 18:10:17  
End at: 2019-04-23 18:10:47  
Local clock offset: 15.585 ms  
Remote clock offset: -0.471 ms

# Below is generated by plot.py at 2019-04-23 21:50:07

# Datalink statistics

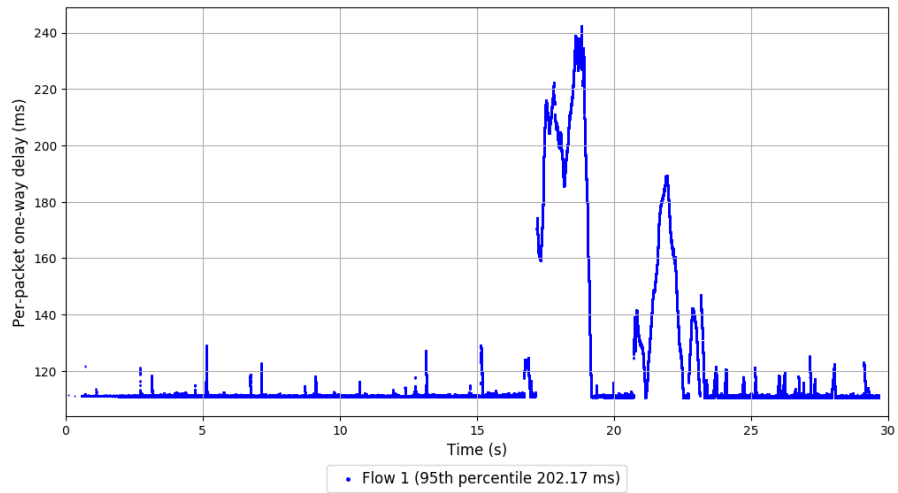
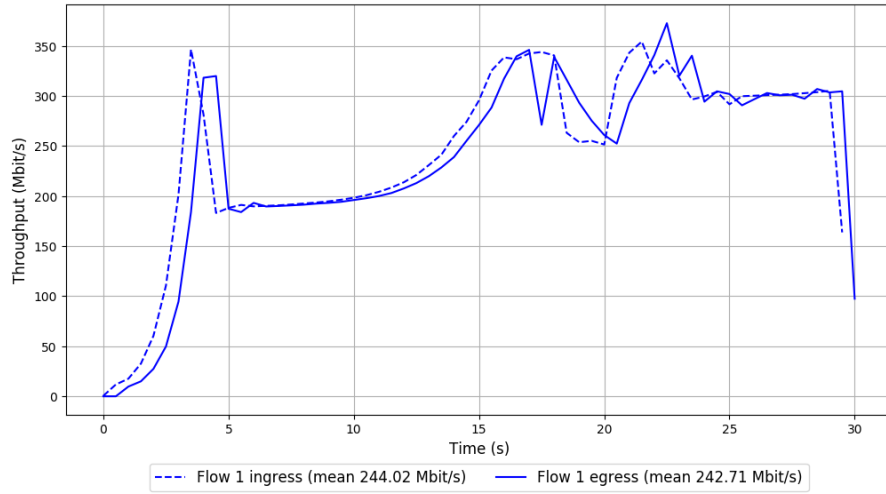
-- Total of 1 flow:

Average throughput: 242.71 Mbit/s  
95th percentile per-packet one-way delay: 202.168 ms  
Loss rate: 1.28%

-- Flow 1:

Average throughput: 242.71 Mbit/s  
95th percentile per-packet one-way delay: 202.168 ms  
Loss rate: 1.28%

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

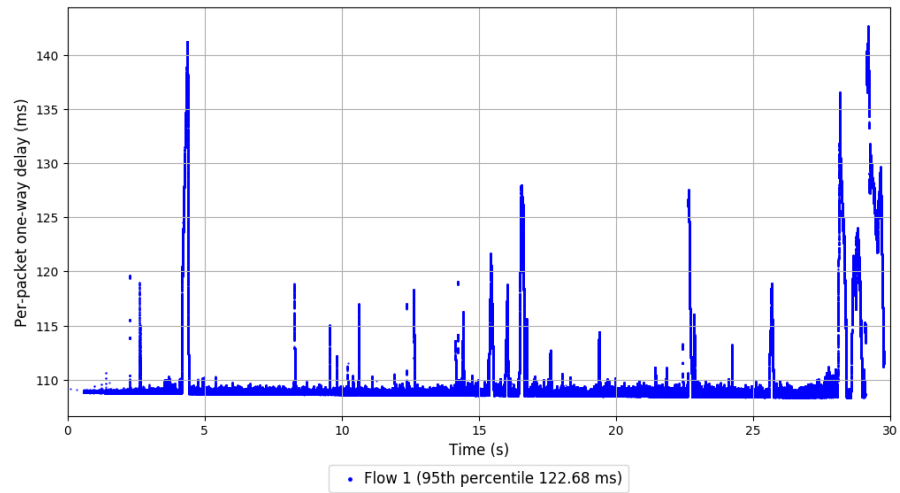
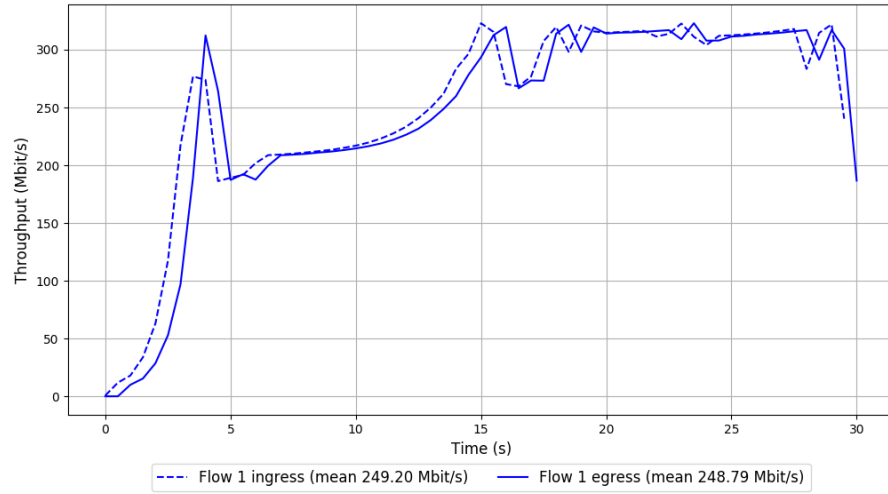


Run 2: Statistics of PCC-Expr

Start at: 2019-04-23 18:41:14  
End at: 2019-04-23 18:41:44  
Local clock offset: 27.739 ms  
Remote clock offset: -0.333 ms

# Below is generated by plot.py at 2019-04-23 21:50:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 248.79 Mbit/s  
95th percentile per-packet one-way delay: 122.678 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 248.79 Mbit/s  
95th percentile per-packet one-way delay: 122.678 ms  
Loss rate: 0.90%

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

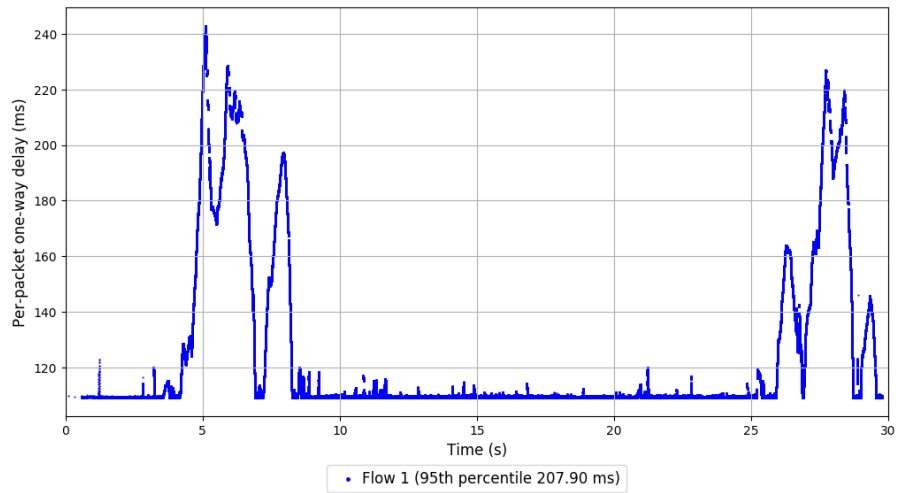
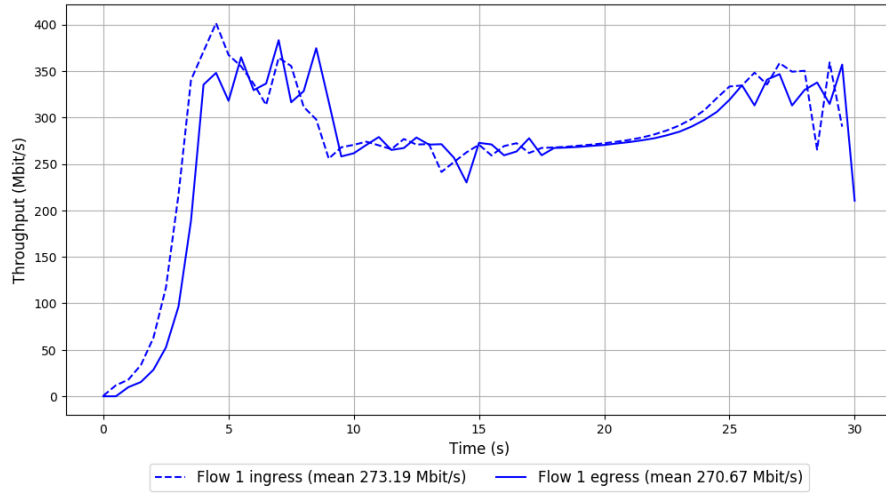


Run 3: Statistics of PCC-Expr

Start at: 2019-04-23 19:12:35  
End at: 2019-04-23 19:13:05  
Local clock offset: 15.193 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-04-23 21:50:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 270.67 Mbit/s  
95th percentile per-packet one-way delay: 207.898 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 270.67 Mbit/s  
95th percentile per-packet one-way delay: 207.898 ms  
Loss rate: 1.65%

### Run 3: Report of PCC-Expr — Data Link

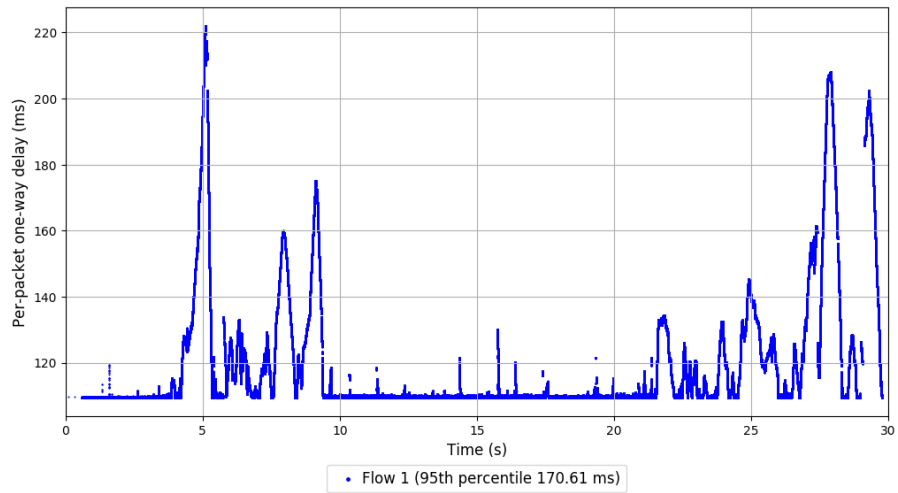
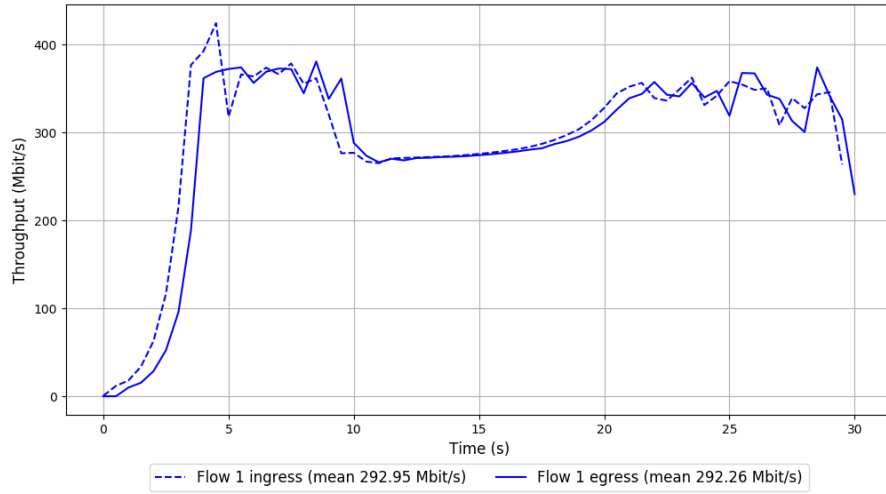


Run 4: Statistics of PCC-Expr

Start at: 2019-04-23 19:43:41  
End at: 2019-04-23 19:44:11  
Local clock offset: 7.599 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-04-23 21:50:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 292.26 Mbit/s  
95th percentile per-packet one-way delay: 170.608 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 292.26 Mbit/s  
95th percentile per-packet one-way delay: 170.608 ms  
Loss rate: 0.97%

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



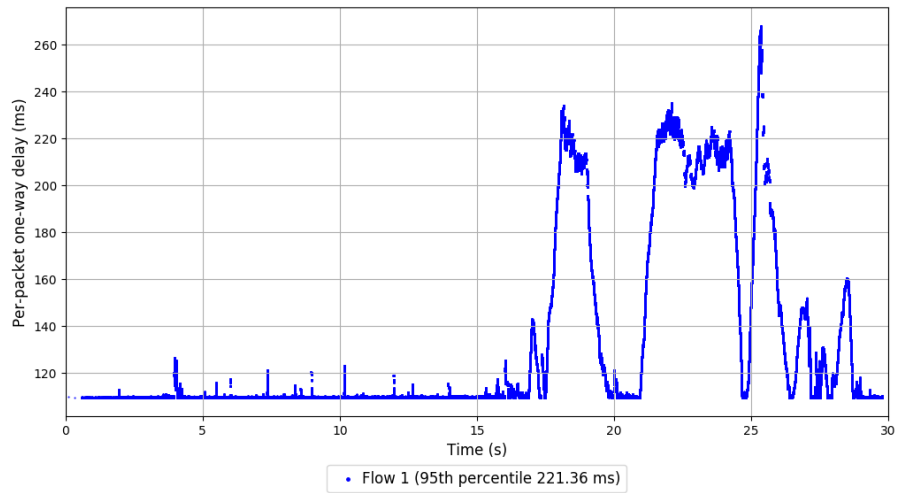
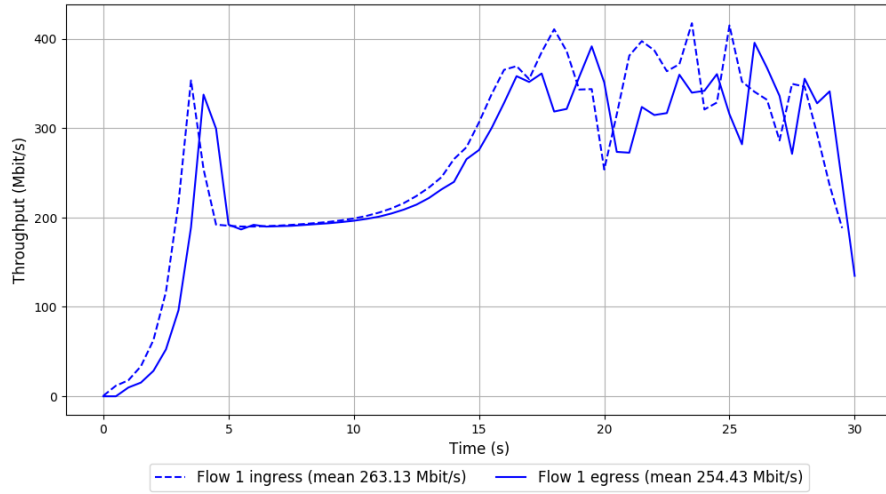


Run 5: Statistics of PCC-Expr

Start at: 2019-04-23 20:14:59  
End at: 2019-04-23 20:15:29  
Local clock offset: 3.843 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-04-23 21:52:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 254.43 Mbit/s  
95th percentile per-packet one-way delay: 221.360 ms  
Loss rate: 4.02%  
-- Flow 1:  
Average throughput: 254.43 Mbit/s  
95th percentile per-packet one-way delay: 221.360 ms  
Loss rate: 4.02%

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

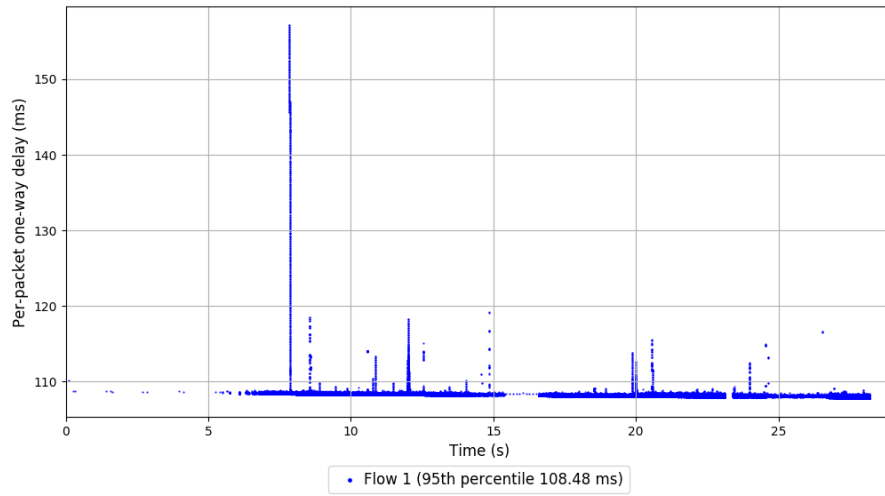
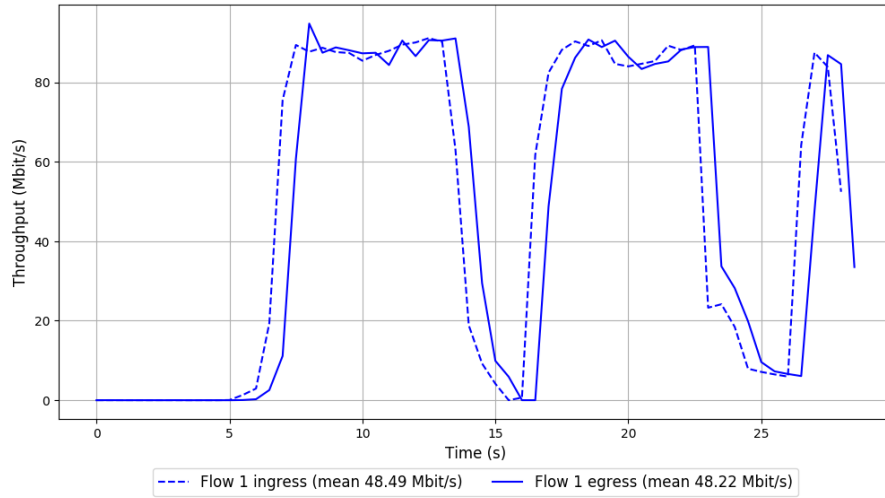


Run 1: Statistics of QUIC Cubic

Start at: 2019-04-23 17:57:44  
End at: 2019-04-23 17:58:14  
Local clock offset: 10.454 ms  
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2019-04-23 21:52:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 48.22 Mbit/s  
95th percentile per-packet one-way delay: 108.484 ms  
Loss rate: 1.34%  
-- Flow 1:  
Average throughput: 48.22 Mbit/s  
95th percentile per-packet one-way delay: 108.484 ms  
Loss rate: 1.34%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-04-23 18:29:05

End at: 2019-04-23 18:29:35

Local clock offset: 19.994 ms

Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2019-04-23 21:52:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.43 Mbit/s

95th percentile per-packet one-way delay: 108.521 ms

Loss rate: 1.02%

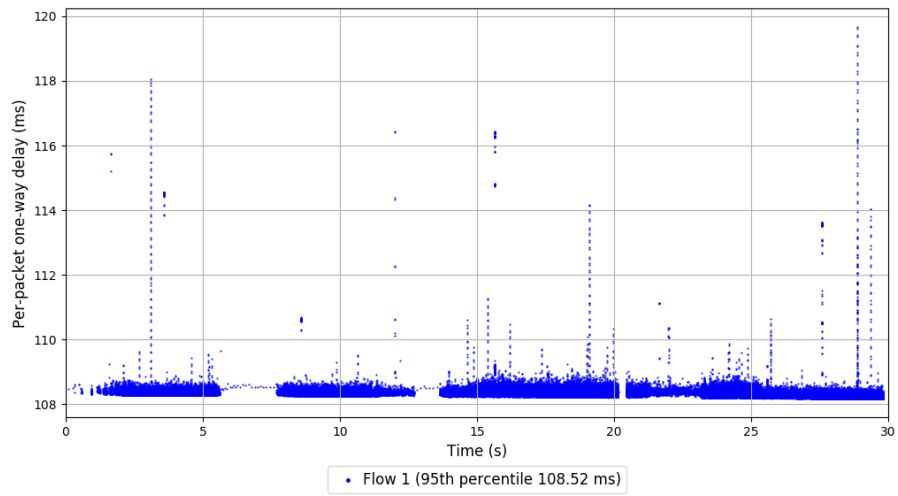
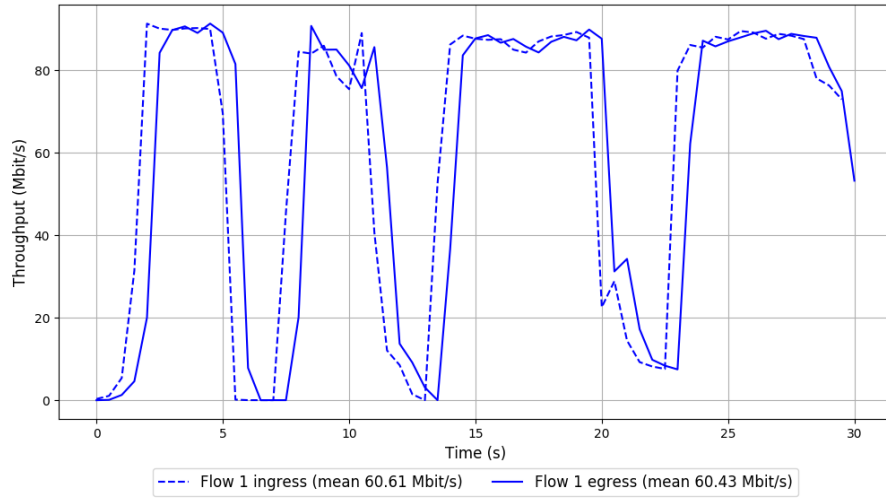
-- Flow 1:

Average throughput: 60.43 Mbit/s

95th percentile per-packet one-way delay: 108.521 ms

Loss rate: 1.02%

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

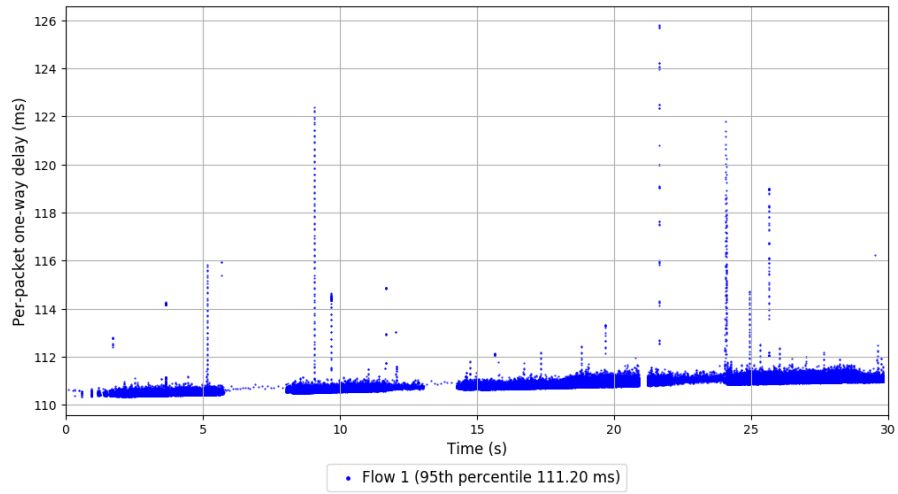
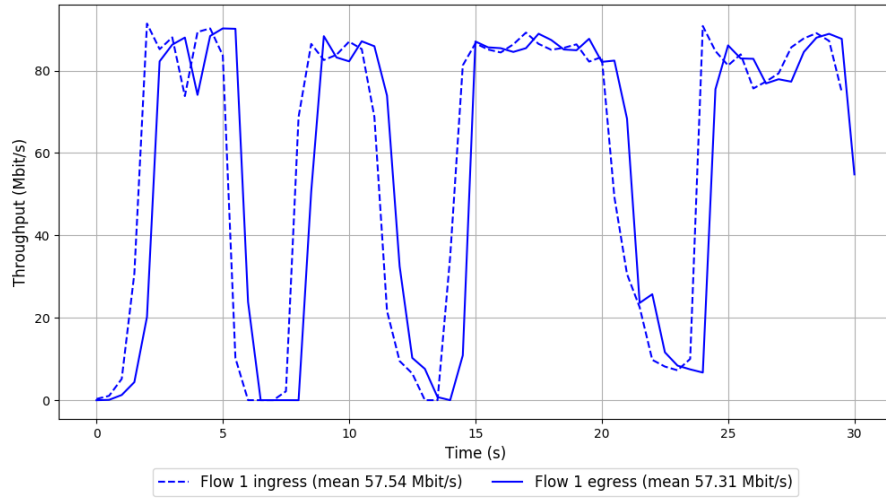


Run 3: Statistics of QUIC Cubic

Start at: 2019-04-23 19:00:15  
End at: 2019-04-23 19:00:45  
Local clock offset: 21.709 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-04-23 21:52:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.31 Mbit/s  
95th percentile per-packet one-way delay: 111.200 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 57.31 Mbit/s  
95th percentile per-packet one-way delay: 111.200 ms  
Loss rate: 1.13%

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



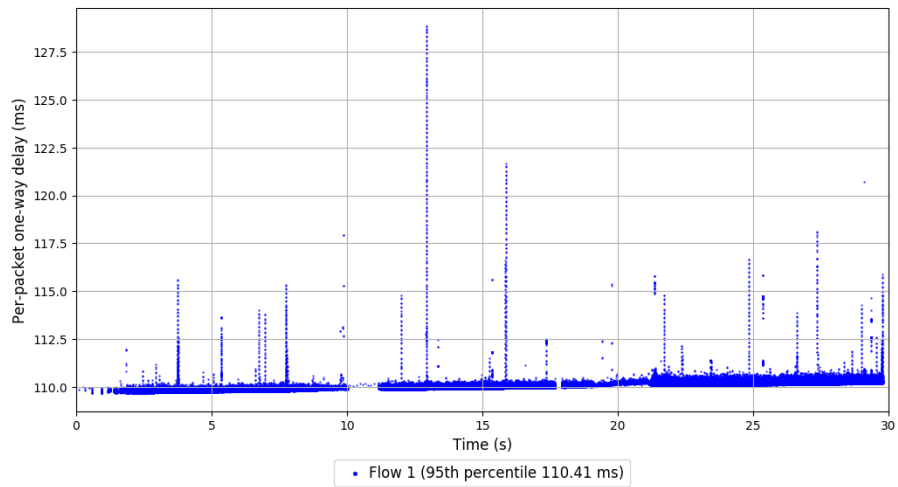
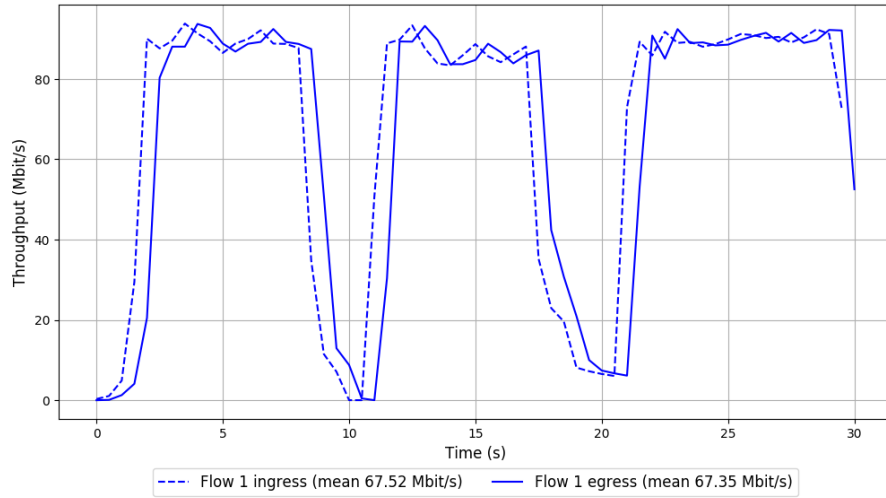


Run 4: Statistics of QUIC Cubic

Start at: 2019-04-23 19:31:27  
End at: 2019-04-23 19:31:57  
Local clock offset: 13.463 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-04-23 21:52:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 67.35 Mbit/s  
95th percentile per-packet one-way delay: 110.406 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 67.35 Mbit/s  
95th percentile per-packet one-way delay: 110.406 ms  
Loss rate: 0.98%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-04-23 20:02:37

End at: 2019-04-23 20:03:07

Local clock offset: 8.513 ms

Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-04-23 21:52:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.88 Mbit/s

95th percentile per-packet one-way delay: 110.163 ms

Loss rate: 0.96%

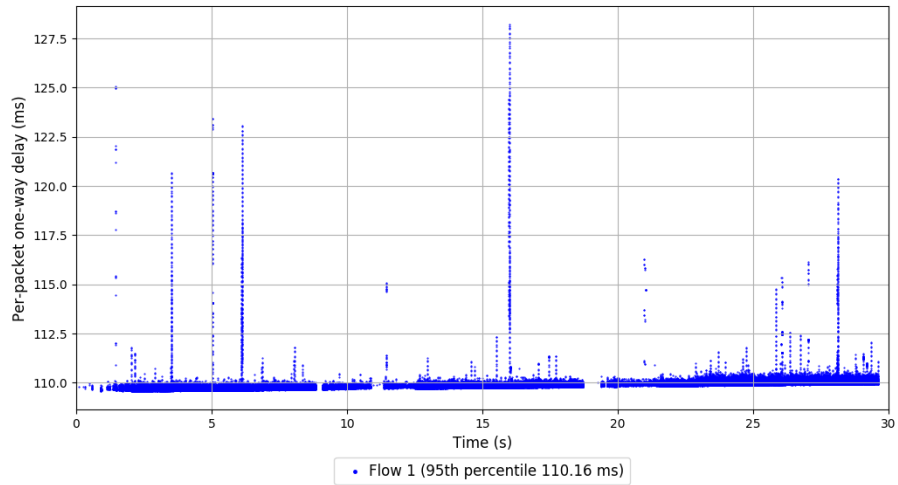
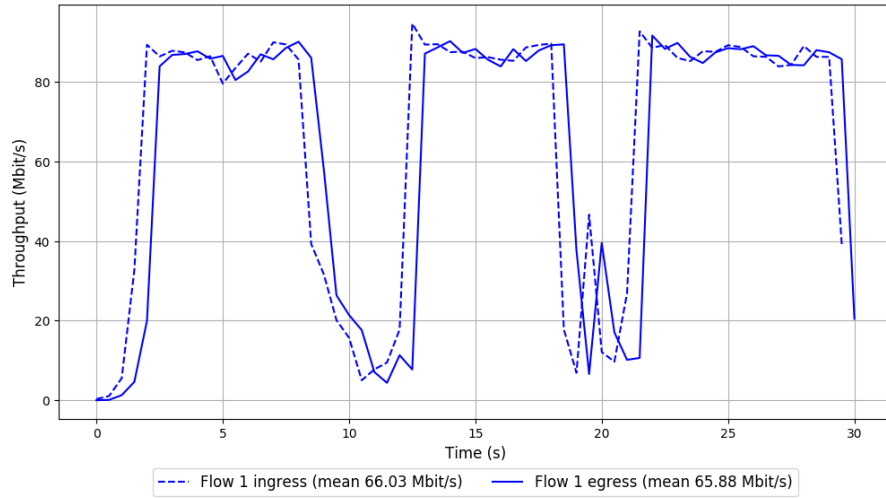
-- Flow 1:

Average throughput: 65.88 Mbit/s

95th percentile per-packet one-way delay: 110.163 ms

Loss rate: 0.96%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-04-23 17:52:13

End at: 2019-04-23 17:52:43

Local clock offset: 8.931 ms

Remote clock offset: 0.277 ms

# Below is generated by plot.py at 2019-04-23 21:52:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.988 ms

Loss rate: 0.77%

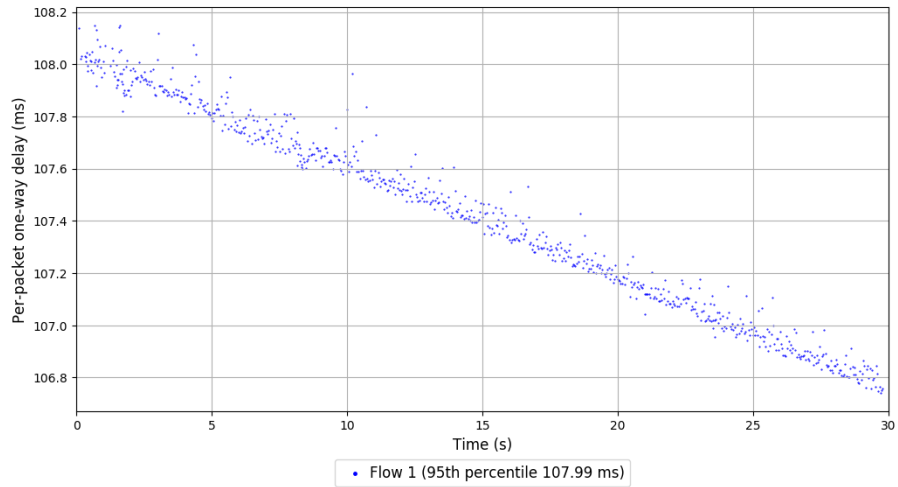
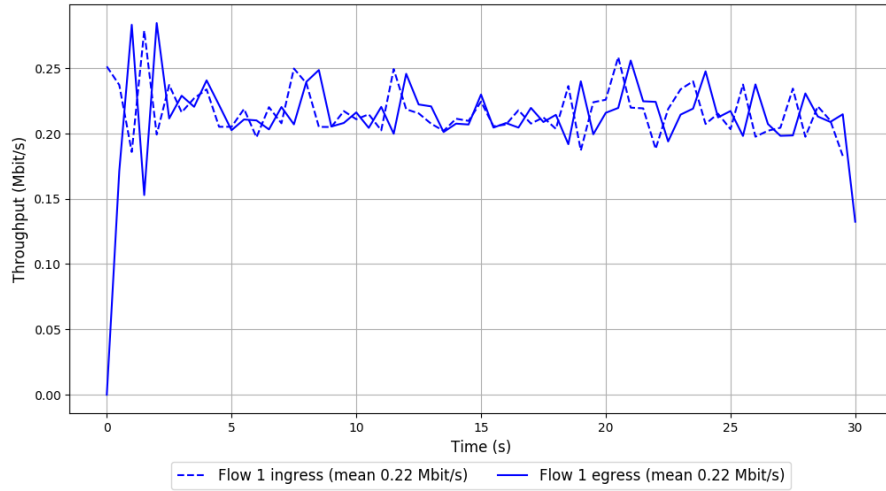
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.988 ms

Loss rate: 0.77%

### Run 1: Report of SCReAM — Data Link

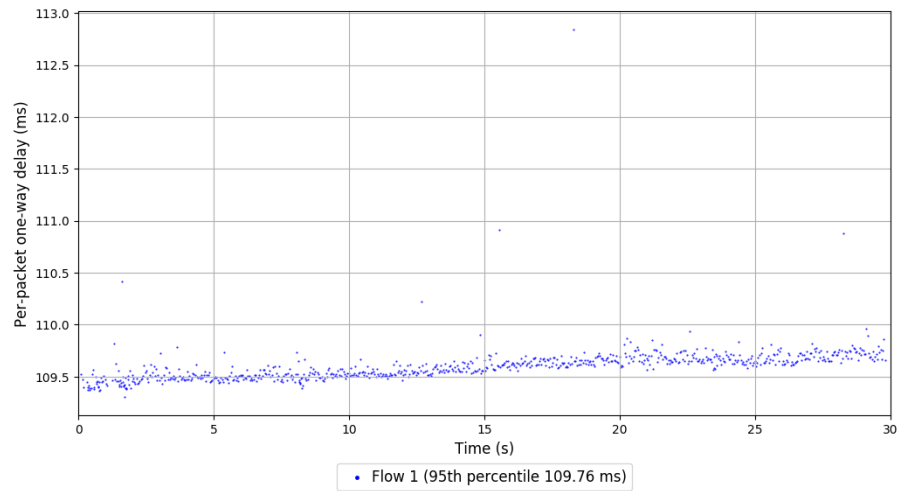
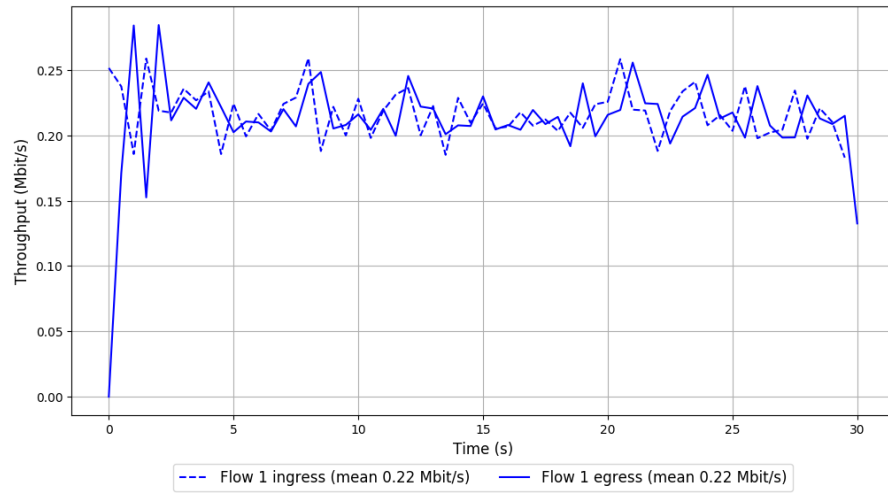


Run 2: Statistics of SCReAM

Start at: 2019-04-23 18:23:34  
End at: 2019-04-23 18:24:04  
Local clock offset: 20.758 ms  
Remote clock offset: -0.419 ms

# Below is generated by plot.py at 2019-04-23 21:52:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 109.756 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 109.756 ms  
Loss rate: 0.77%

## Run 2: Report of SCReAM — Data Link



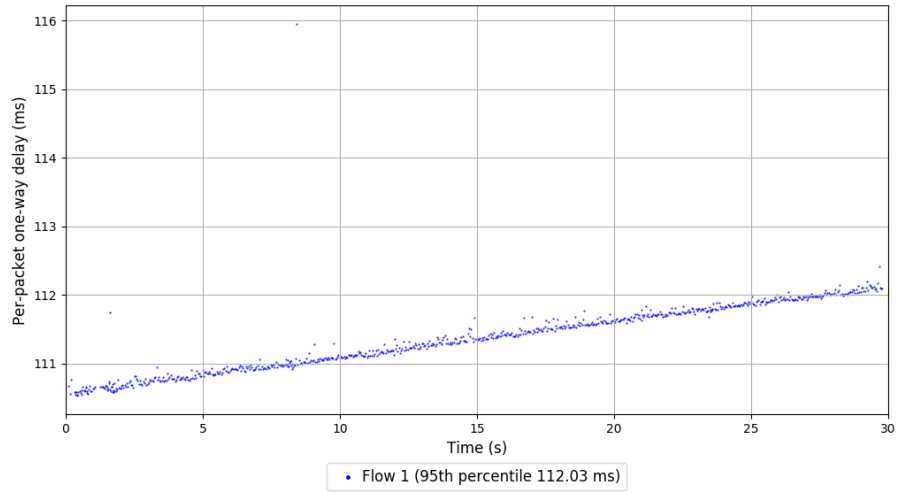
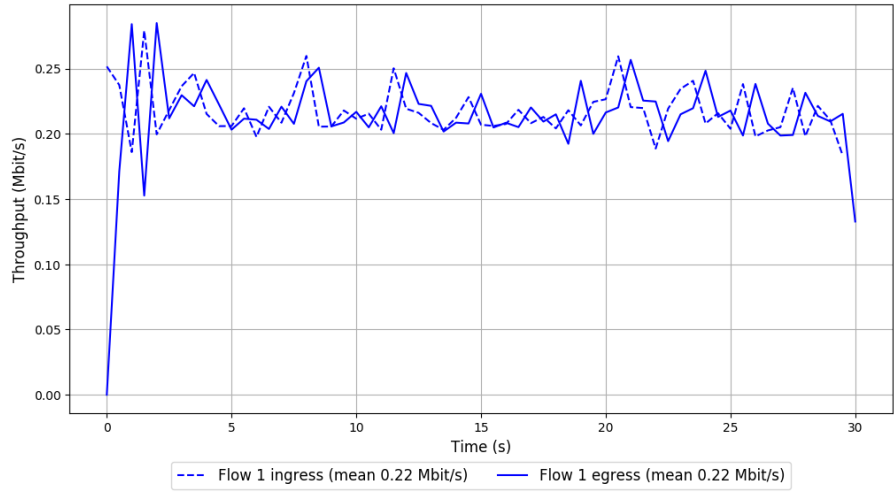


Run 3: Statistics of SCReAM

Start at: 2019-04-23 18:54:42  
End at: 2019-04-23 18:55:12  
Local clock offset: 33.485 ms  
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2019-04-23 21:52:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.031 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.031 ms  
Loss rate: 0.77%

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

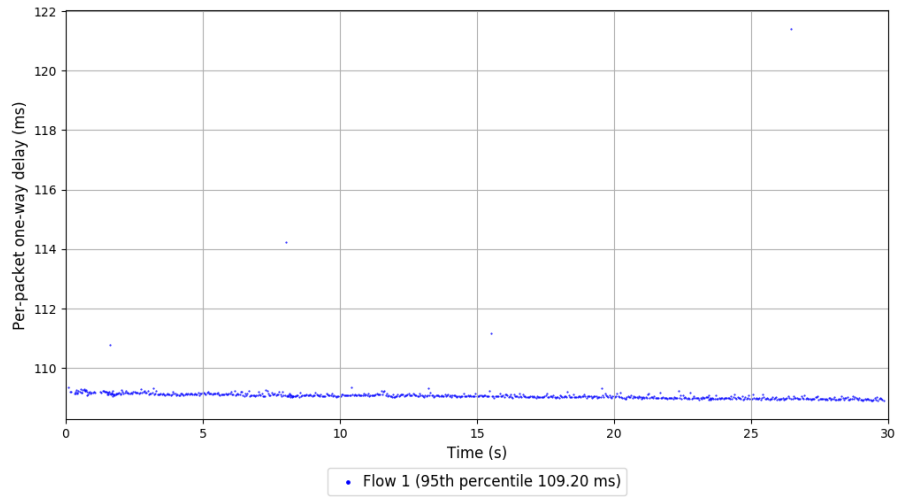
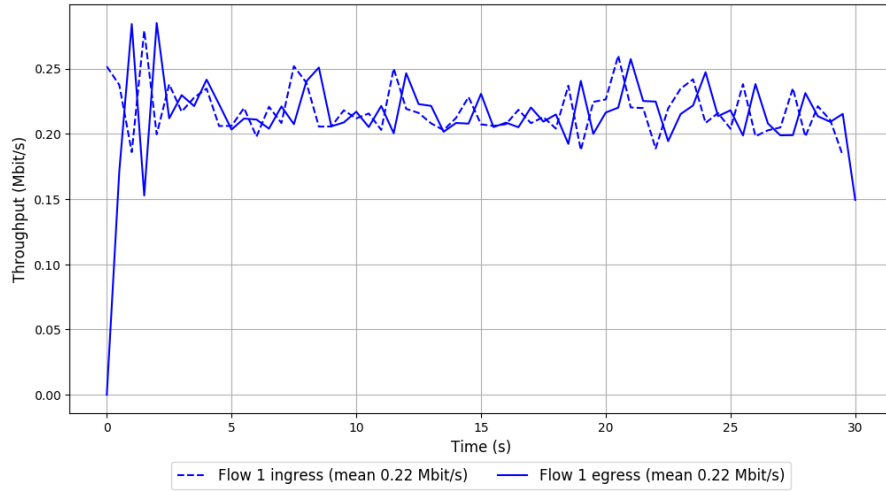


Run 4: Statistics of SCReAM

Start at: 2019-04-23 19:26:00  
End at: 2019-04-23 19:26:30  
Local clock offset: 20.163 ms  
Remote clock offset: -0.528 ms

# Below is generated by plot.py at 2019-04-23 21:52:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 109.202 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 109.202 ms  
Loss rate: 0.64%

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



Run 5: Statistics of SCReAM

Start at: 2019-04-23 19:57:07

End at: 2019-04-23 19:57:37

Local clock offset: 8.762 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-04-23 21:52:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.157 ms

Loss rate: 0.77%

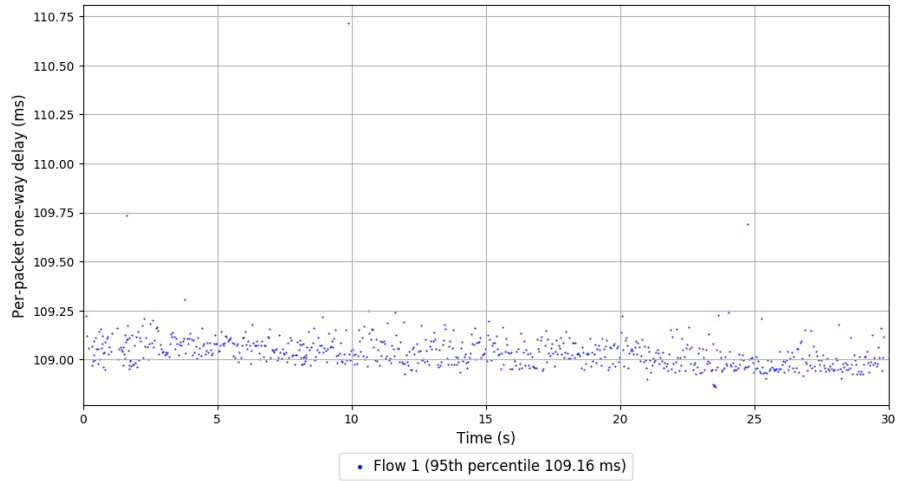
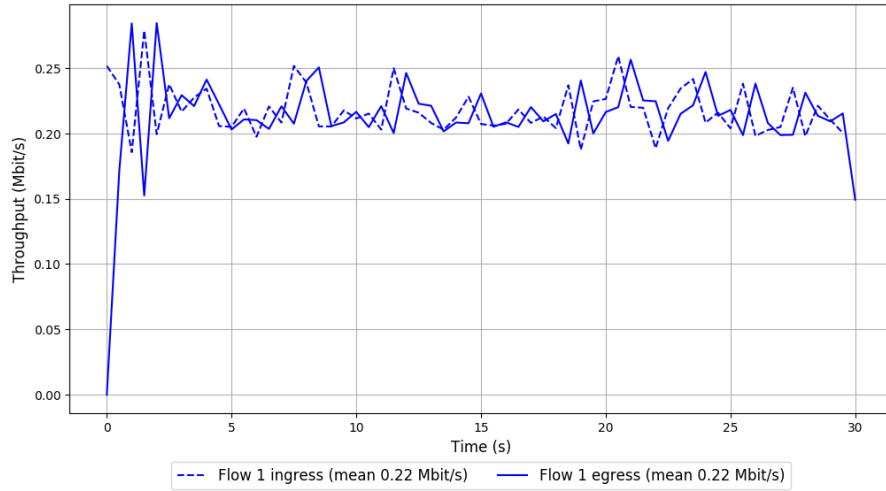
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.157 ms

Loss rate: 0.77%

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

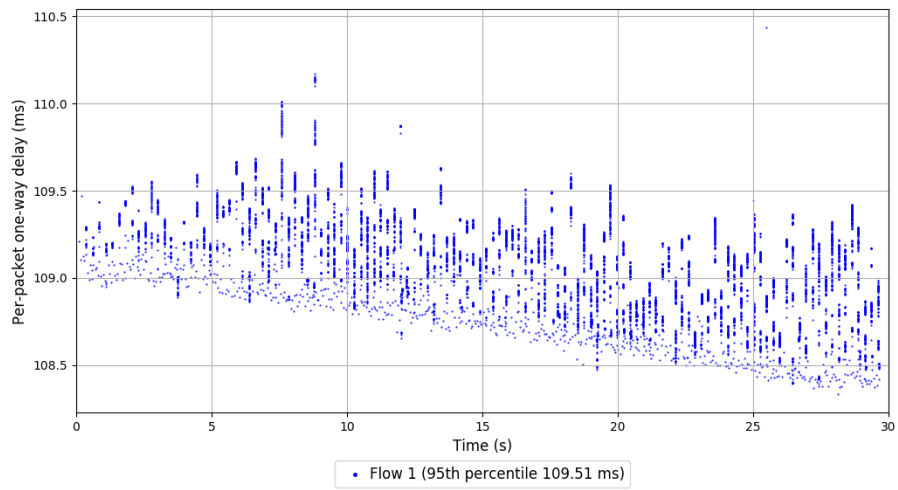
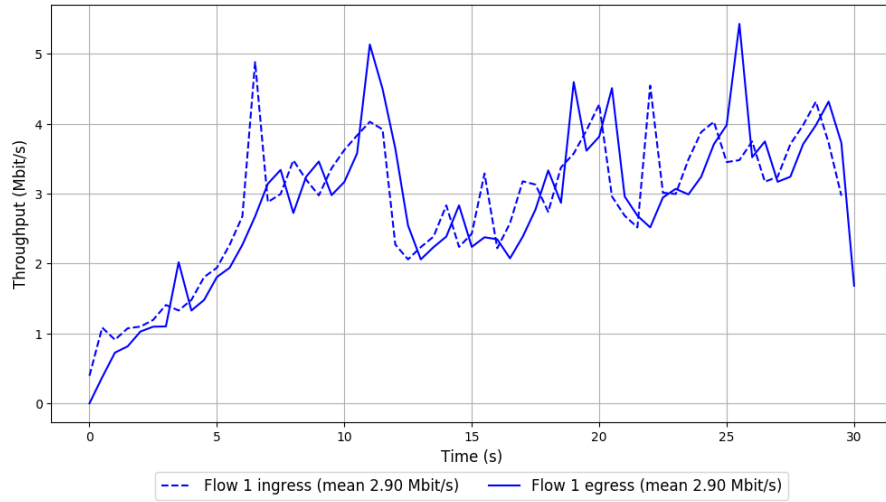


Run 1: Statistics of Sprout

Start at: 2019-04-23 18:14:49  
End at: 2019-04-23 18:15:19  
Local clock offset: 21.059 ms  
Remote clock offset: -0.528 ms

# Below is generated by plot.py at 2019-04-23 21:52:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.90 Mbit/s  
95th percentile per-packet one-way delay: 109.514 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 2.90 Mbit/s  
95th percentile per-packet one-way delay: 109.514 ms  
Loss rate: 0.75%

### Run 1: Report of Sprout — Data Link



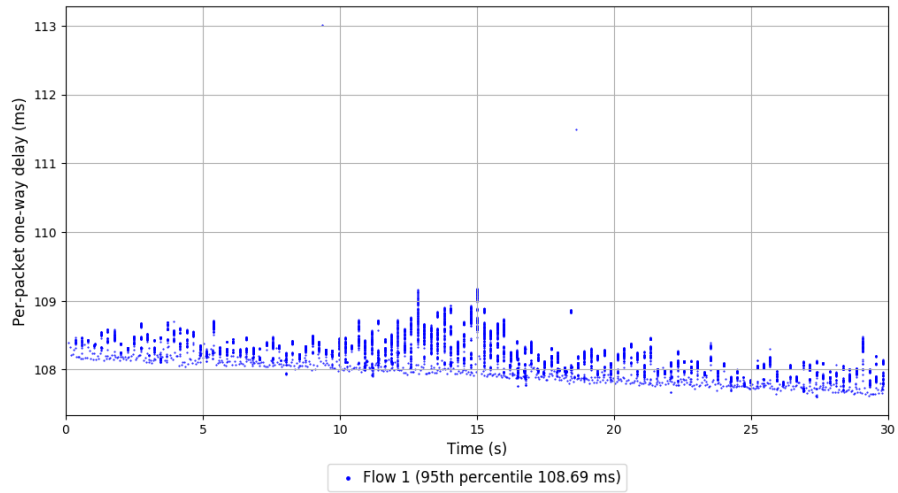
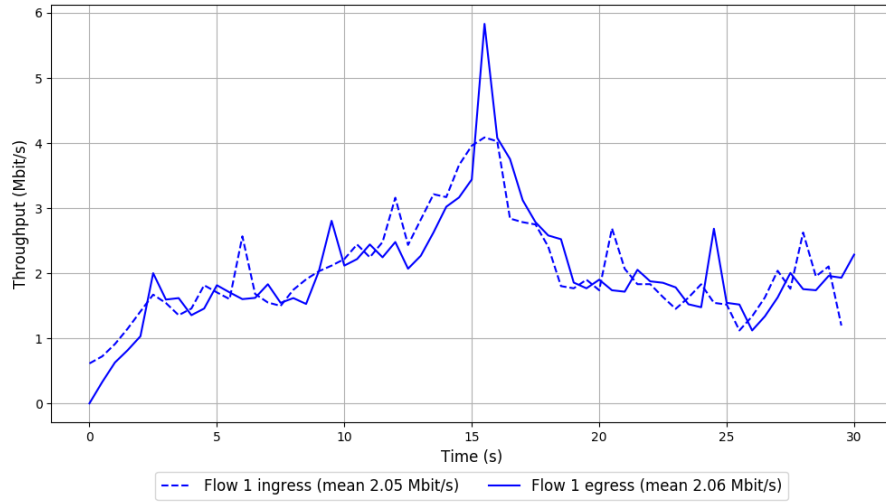


Run 2: Statistics of Sprout

Start at: 2019-04-23 18:45:41  
End at: 2019-04-23 18:46:11  
Local clock offset: 31.077 ms  
Remote clock offset: -0.364 ms

# Below is generated by plot.py at 2019-04-23 21:52:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 108.685 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 108.685 ms  
Loss rate: 0.01%

## Run 2: Report of Sprout — Data Link

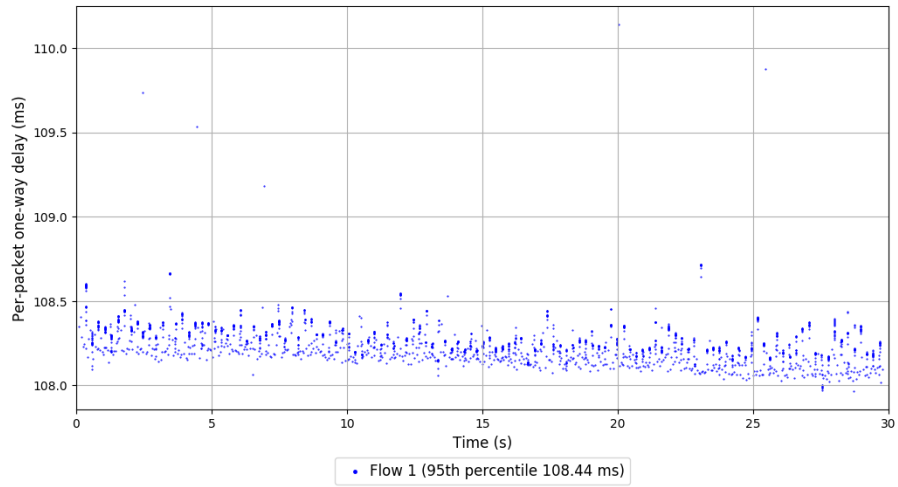
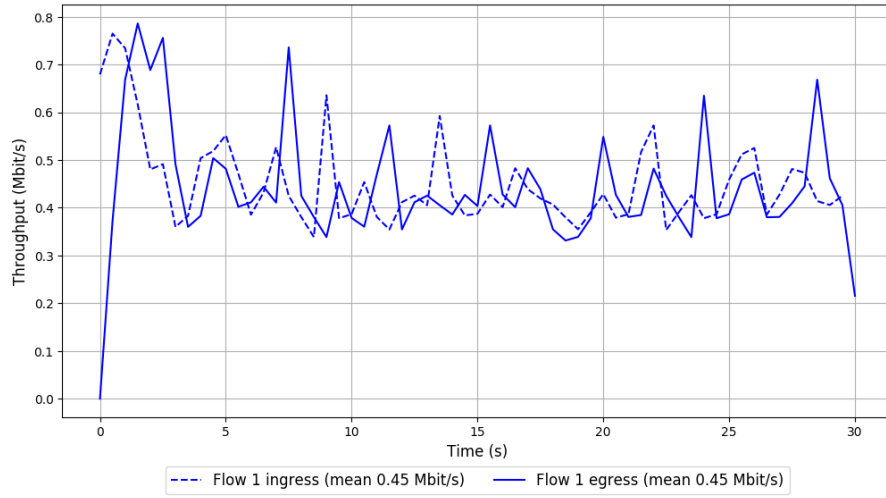


Run 3: Statistics of Sprout

Start at: 2019-04-23 19:17:02  
End at: 2019-04-23 19:17:32  
Local clock offset: 15.899 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-04-23 21:52:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 108.435 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 108.435 ms  
Loss rate: 0.79%

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



Run 4: Statistics of Sprout

Start at: 2019-04-23 19:48:14

End at: 2019-04-23 19:48:44

Local clock offset: 7.547 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-04-23 21:52:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 110.325 ms

Loss rate: 0.45%

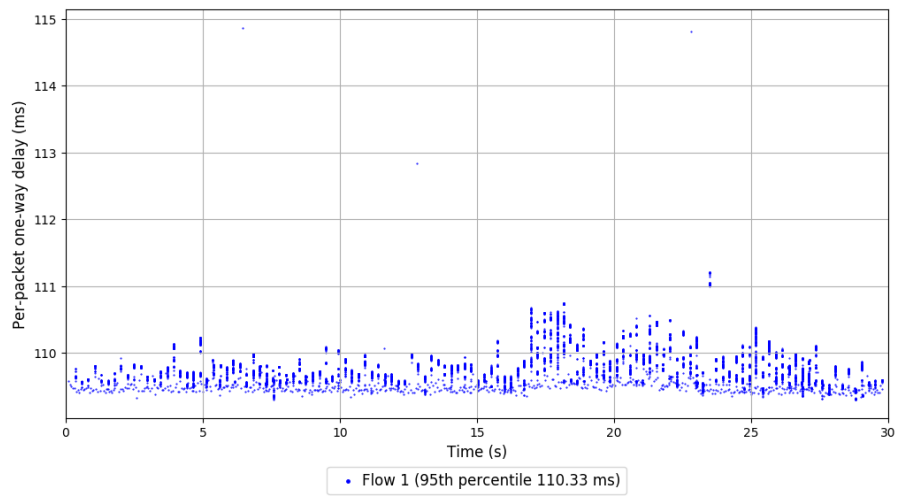
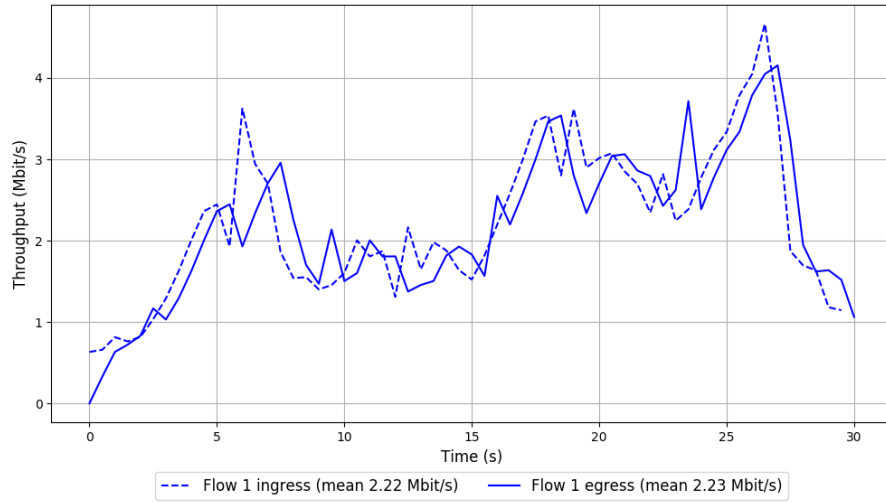
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 110.325 ms

Loss rate: 0.45%

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



Run 5: Statistics of Sprout

Start at: 2019-04-23 20:19:28

End at: 2019-04-23 20:19:58

Local clock offset: 3.945 ms

Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-04-23 21:52:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 110.418 ms

Loss rate: 0.99%

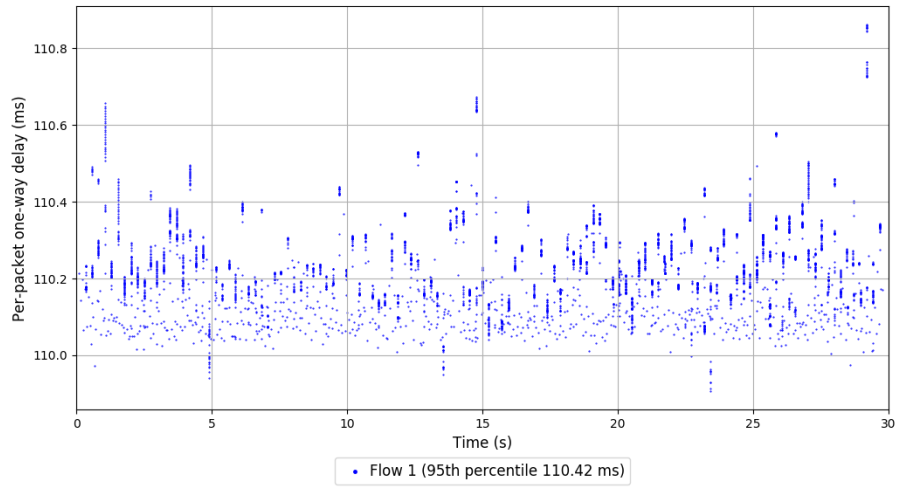
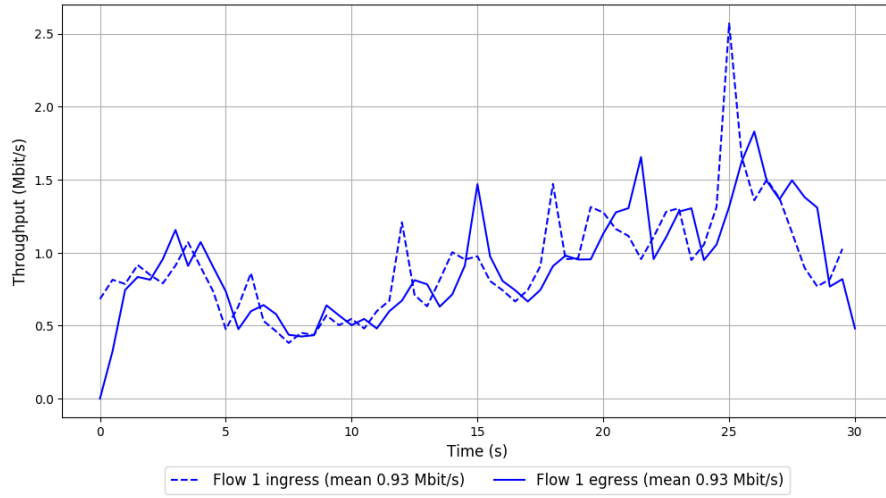
-- Flow 1:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 110.418 ms

Loss rate: 0.99%

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





Run 1: Statistics of TaoVA-100x

Start at: 2019-04-23 17:56:09

End at: 2019-04-23 17:56:39

Local clock offset: 8.342 ms

Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-04-23 21:54:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 199.94 Mbit/s

95th percentile per-packet one-way delay: 108.448 ms

Loss rate: 0.69%

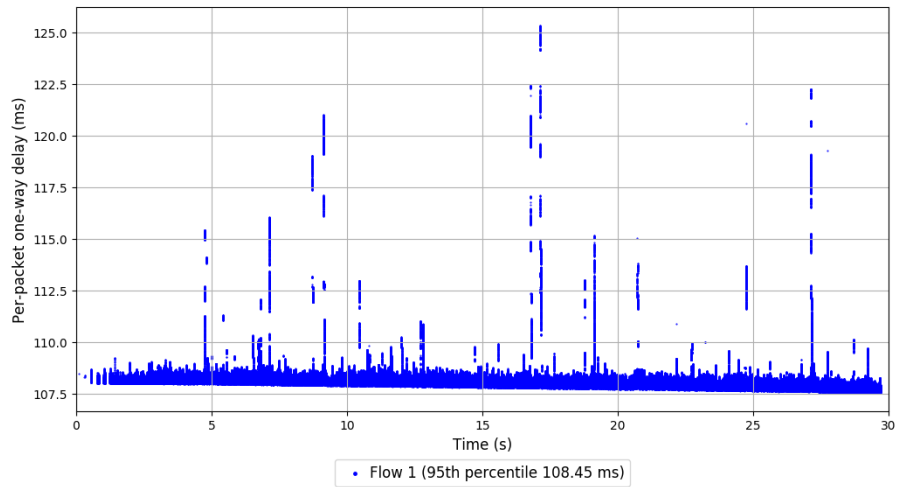
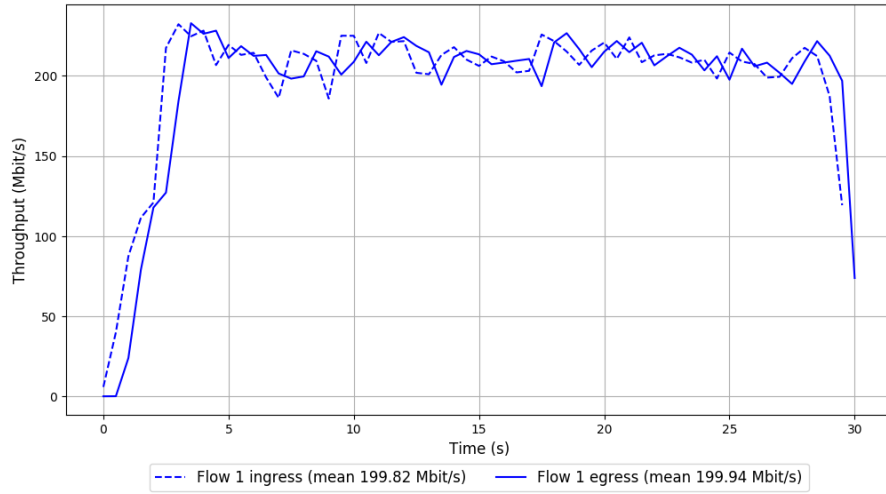
-- Flow 1:

Average throughput: 199.94 Mbit/s

95th percentile per-packet one-way delay: 108.448 ms

Loss rate: 0.69%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-04-23 18:27:34

End at: 2019-04-23 18:28:04

Local clock offset: 19.625 ms

Remote clock offset: -0.349 ms

# Below is generated by plot.py at 2019-04-23 21:54:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 205.71 Mbit/s

95th percentile per-packet one-way delay: 109.670 ms

Loss rate: 0.82%

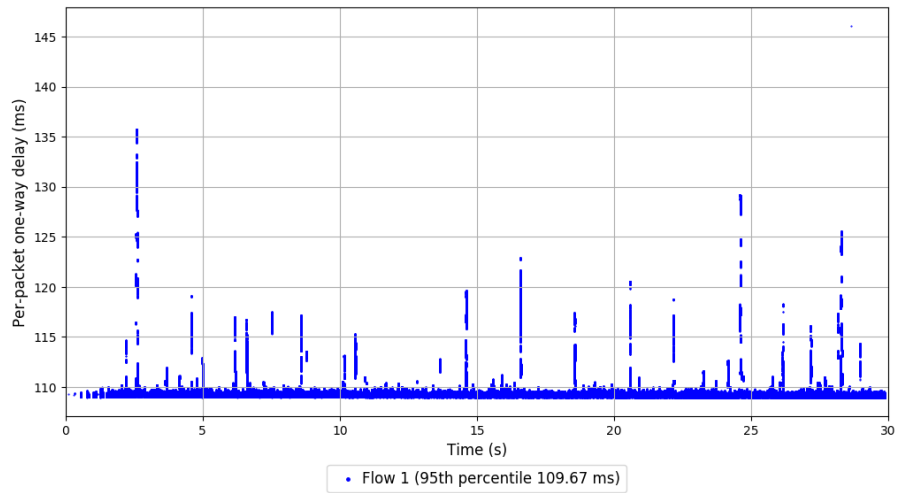
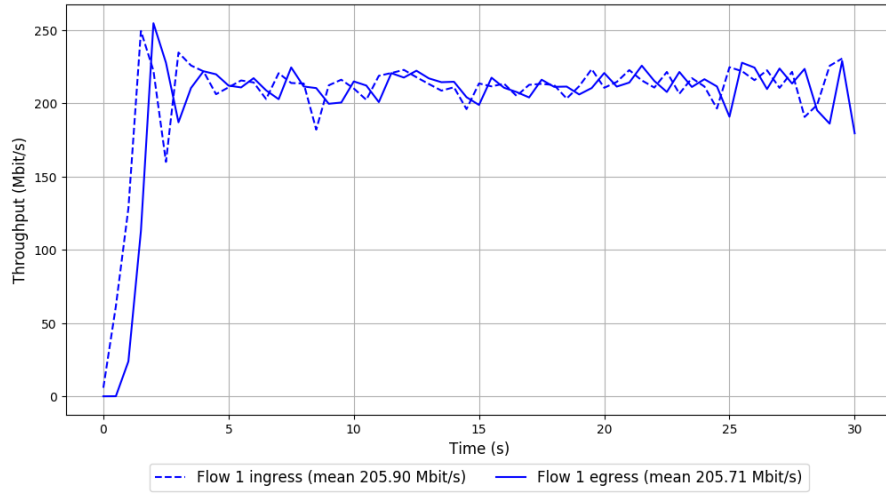
-- Flow 1:

Average throughput: 205.71 Mbit/s

95th percentile per-packet one-way delay: 109.670 ms

Loss rate: 0.82%

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

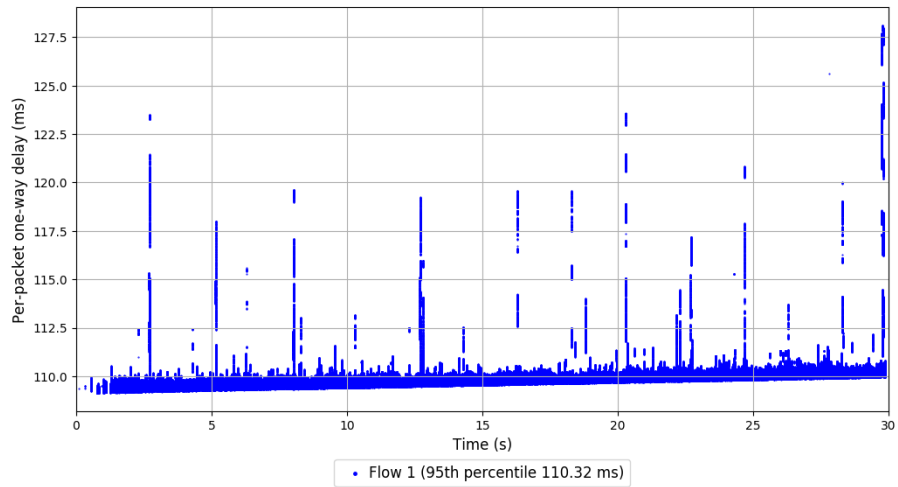
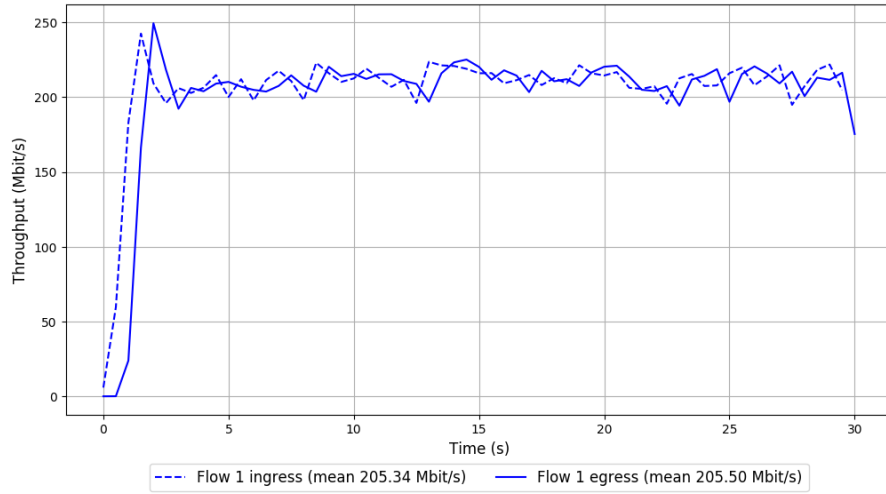


Run 3: Statistics of TaoVA-100x

Start at: 2019-04-23 18:58:44  
End at: 2019-04-23 18:59:14  
Local clock offset: 23.825 ms  
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2019-04-23 21:54:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 205.50 Mbit/s  
95th percentile per-packet one-way delay: 110.322 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 205.50 Mbit/s  
95th percentile per-packet one-way delay: 110.322 ms  
Loss rate: 0.65%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-04-23 19:29:56

End at: 2019-04-23 19:30:26

Local clock offset: 15.28 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-04-23 21:55:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 201.29 Mbit/s

95th percentile per-packet one-way delay: 110.506 ms

Loss rate: 0.78%

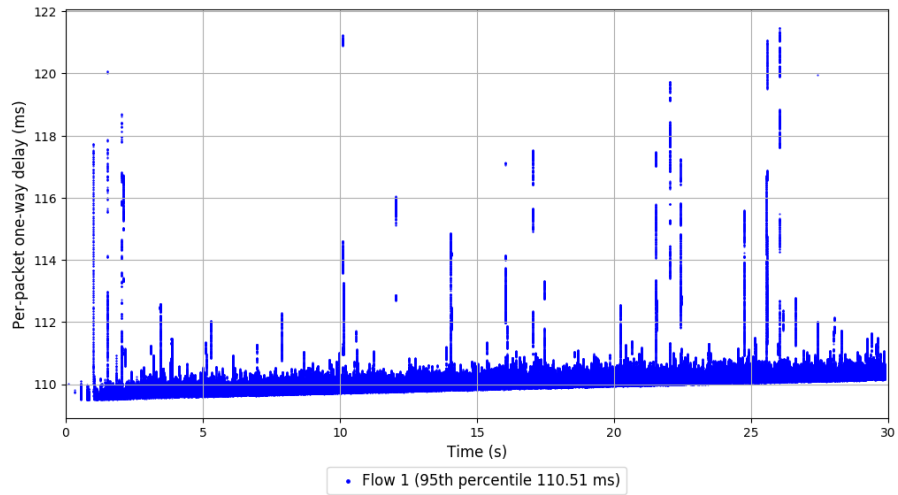
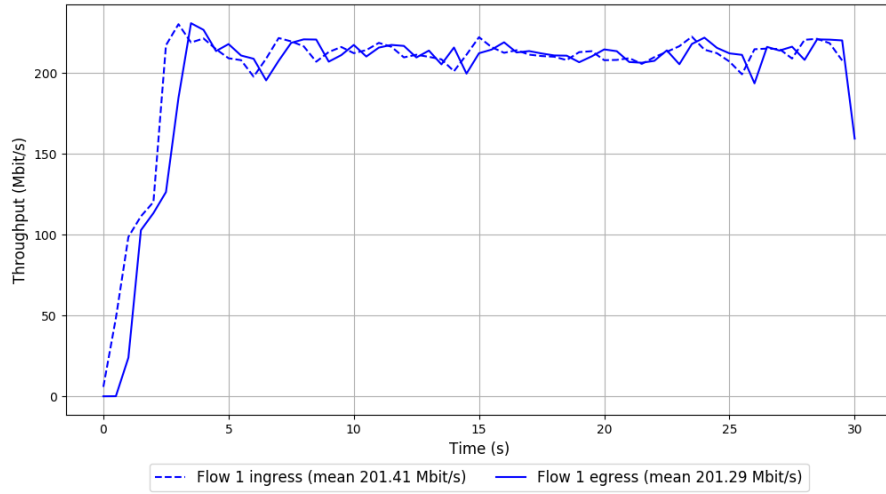
-- Flow 1:

Average throughput: 201.29 Mbit/s

95th percentile per-packet one-way delay: 110.506 ms

Loss rate: 0.78%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-04-23 20:01:06

End at: 2019-04-23 20:01:36

Local clock offset: 9.633 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-04-23 21:55:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.41 Mbit/s

95th percentile per-packet one-way delay: 110.357 ms

Loss rate: 0.82%

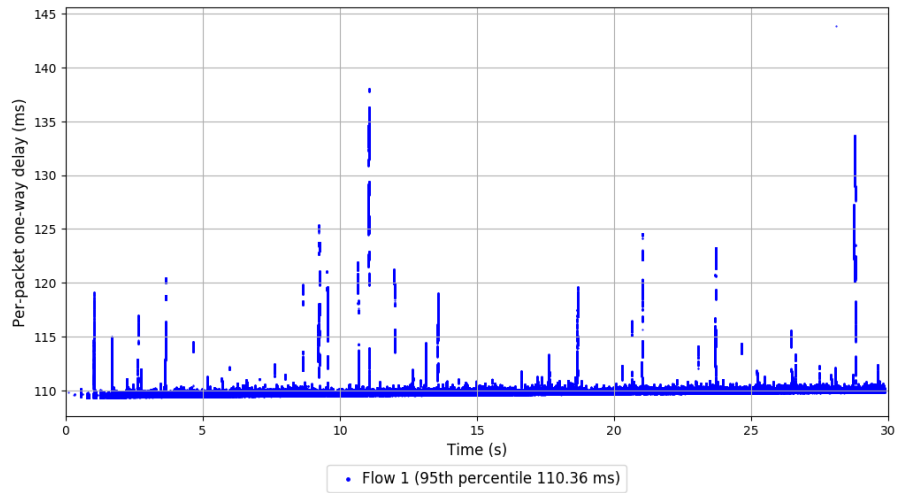
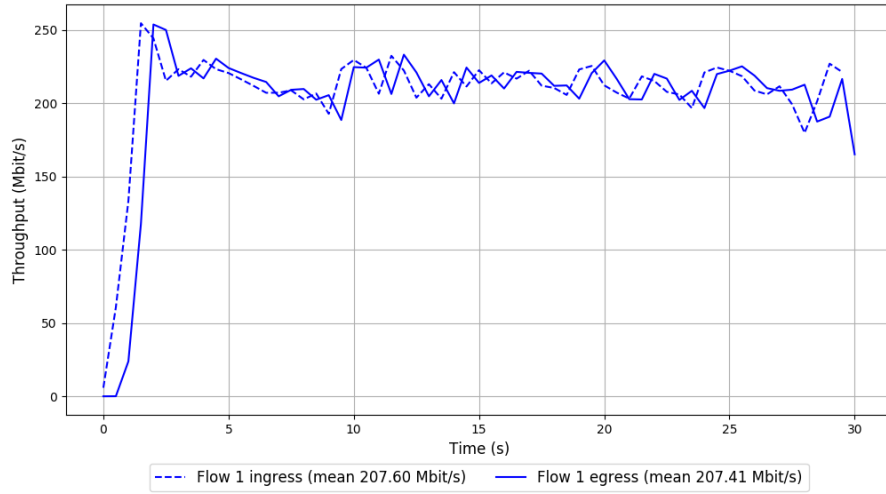
-- Flow 1:

Average throughput: 207.41 Mbit/s

95th percentile per-packet one-way delay: 110.357 ms

Loss rate: 0.82%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-04-23 17:47:42

End at: 2019-04-23 17:48:12

Local clock offset: 5.031 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2019-04-23 21:55:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 304.24 Mbit/s

95th percentile per-packet one-way delay: 134.383 ms

Loss rate: 0.64%

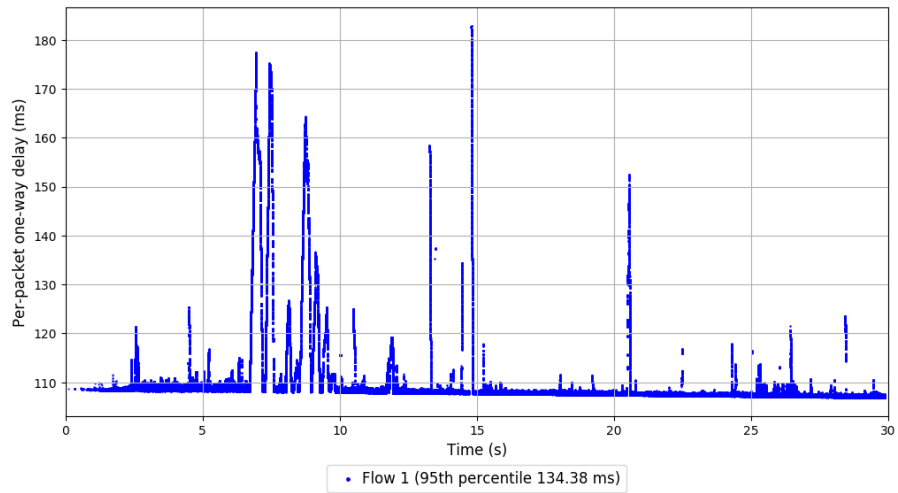
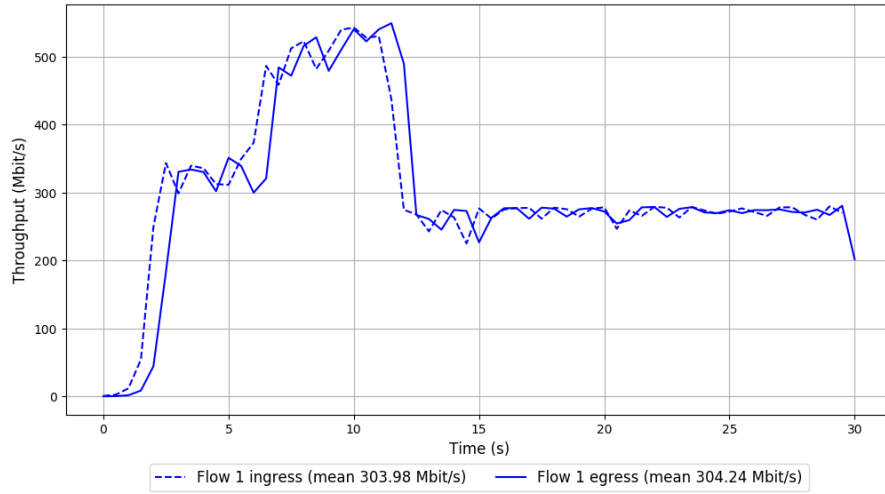
-- Flow 1:

Average throughput: 304.24 Mbit/s

95th percentile per-packet one-way delay: 134.383 ms

Loss rate: 0.64%

Run 1: Report of TCP Vegas — Data Link

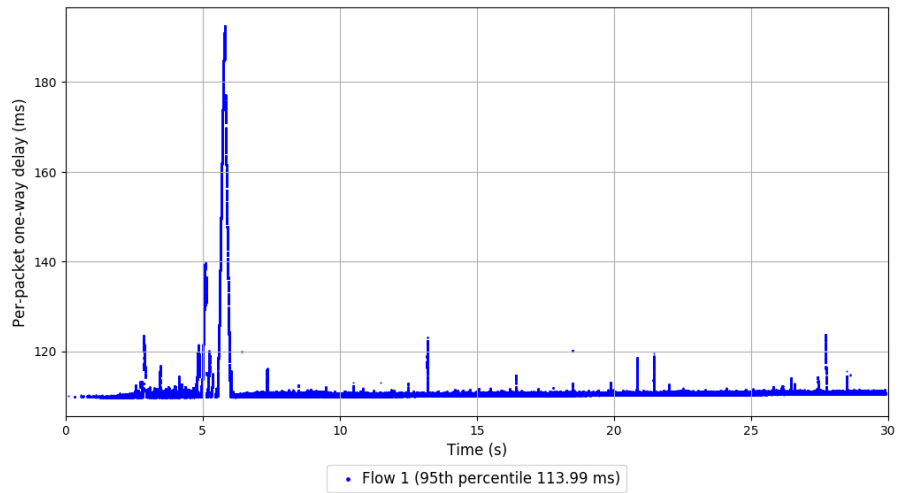
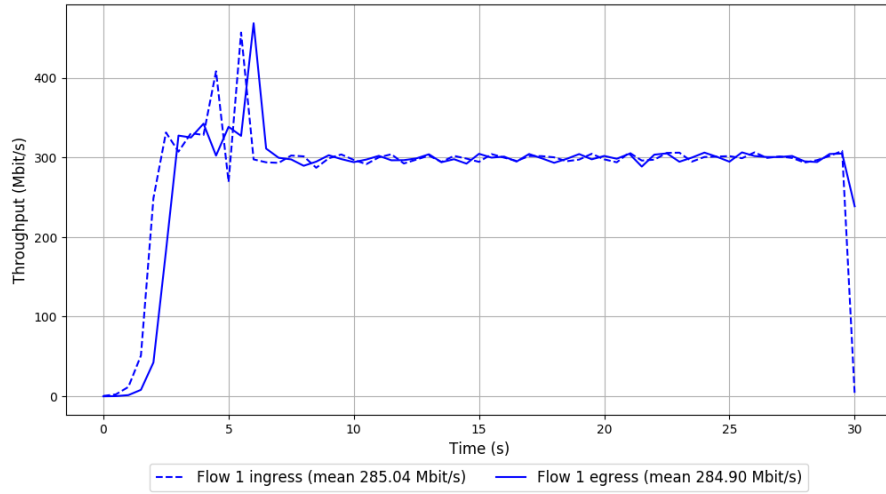


Run 2: Statistics of TCP Vegas

Start at: 2019-04-23 18:18:56  
End at: 2019-04-23 18:19:26  
Local clock offset: 27.278 ms  
Remote clock offset: -0.598 ms

# Below is generated by plot.py at 2019-04-23 21:56:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 284.90 Mbit/s  
95th percentile per-packet one-way delay: 113.993 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 284.90 Mbit/s  
95th percentile per-packet one-way delay: 113.993 ms  
Loss rate: 0.77%

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

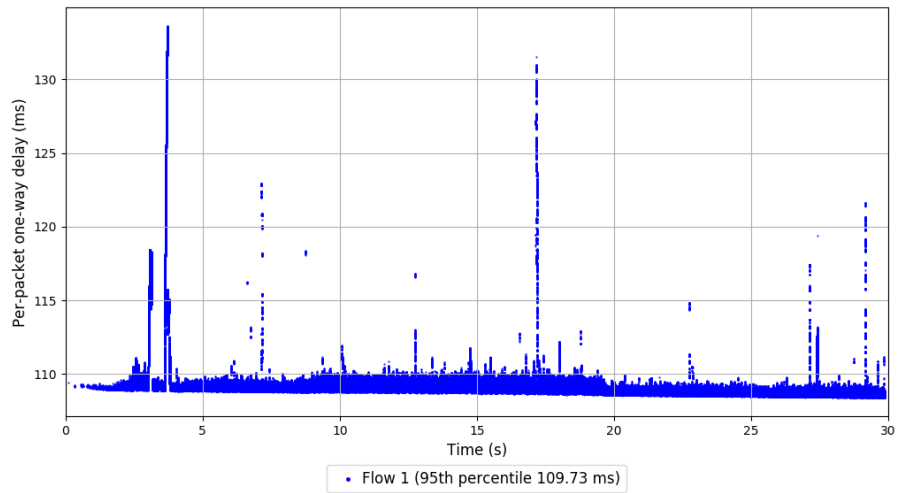
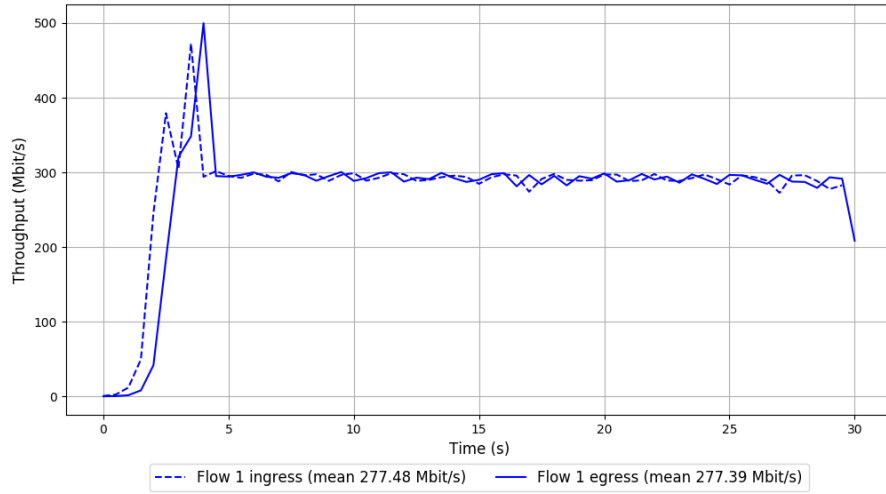


Run 3: Statistics of TCP Vegas

Start at: 2019-04-23 18:50:00  
End at: 2019-04-23 18:50:30  
Local clock offset: 36.532 ms  
Remote clock offset: -0.401 ms

# Below is generated by plot.py at 2019-04-23 21:57:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 277.39 Mbit/s  
95th percentile per-packet one-way delay: 109.726 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 277.39 Mbit/s  
95th percentile per-packet one-way delay: 109.726 ms  
Loss rate: 0.77%

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



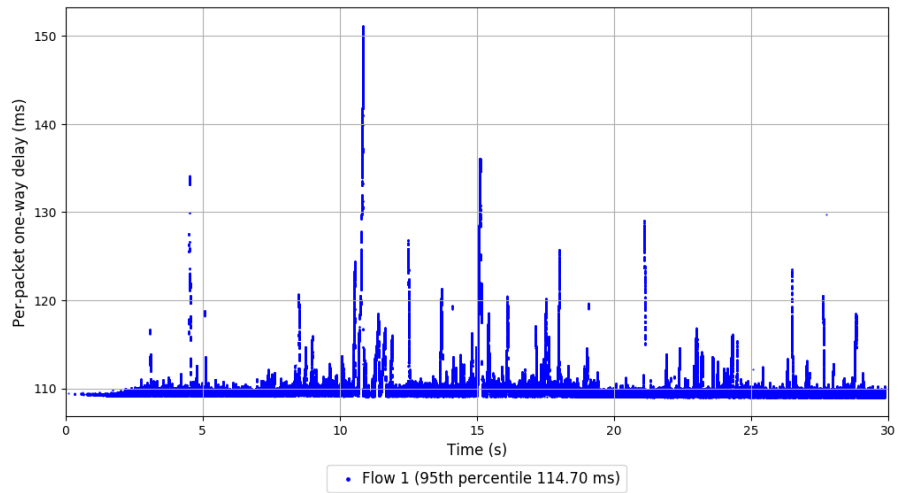
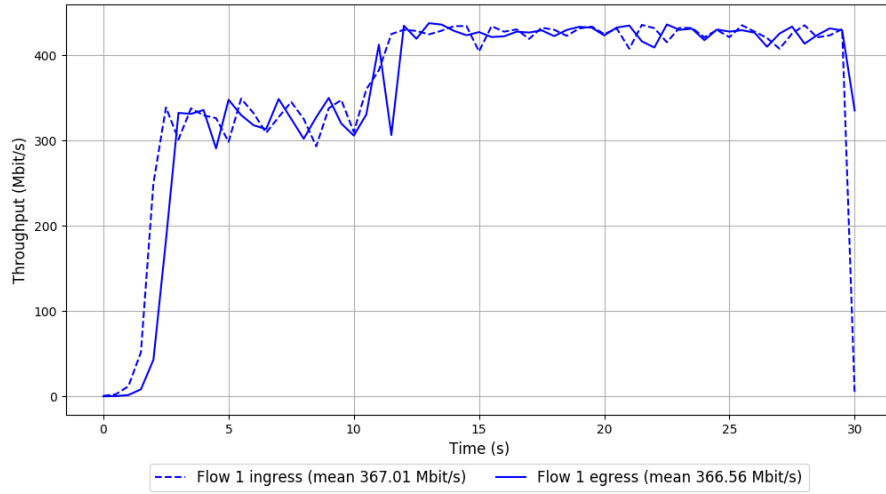


Run 4: Statistics of TCP Vegas

Start at: 2019-04-23 19:21:14  
End at: 2019-04-23 19:21:44  
Local clock offset: 17.442 ms  
Remote clock offset: -0.186 ms

```
# Below is generated by plot.py at 2019-04-23 22:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.56 Mbit/s
95th percentile per-packet one-way delay: 114.705 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 366.56 Mbit/s
95th percentile per-packet one-way delay: 114.705 ms
Loss rate: 0.85%
```

Run 4: Report of TCP Vegas — Data Link

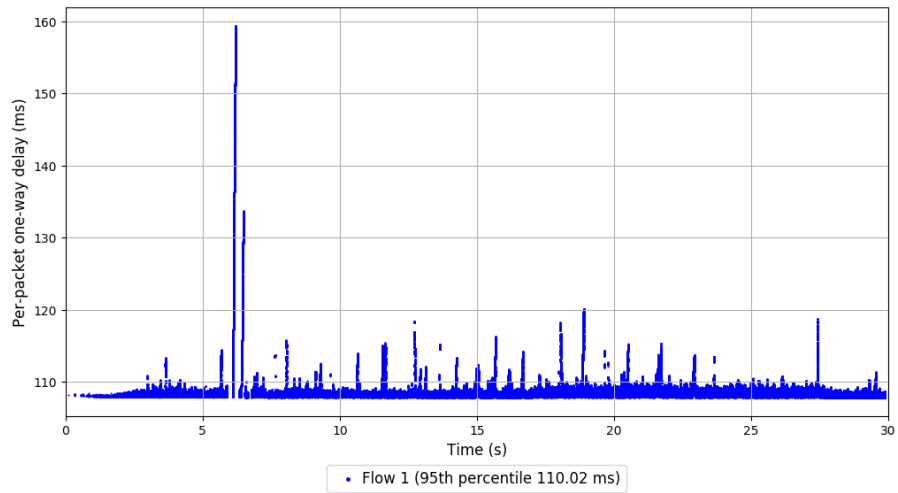
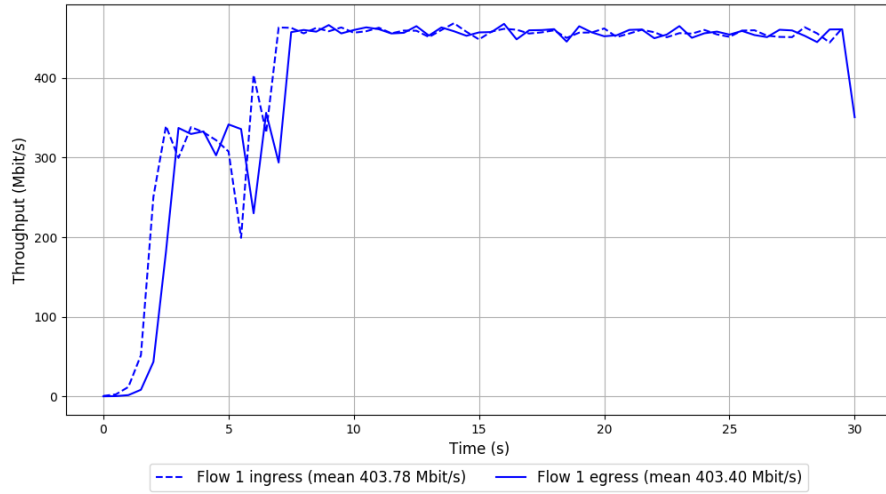


Run 5: Statistics of TCP Vegas

Start at: 2019-04-23 19:52:19  
End at: 2019-04-23 19:52:49  
Local clock offset: 7.738 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-04-23 22:01:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 403.40 Mbit/s  
95th percentile per-packet one-way delay: 110.015 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 403.40 Mbit/s  
95th percentile per-packet one-way delay: 110.015 ms  
Loss rate: 0.82%

Run 5: Report of TCP Vegas — Data Link

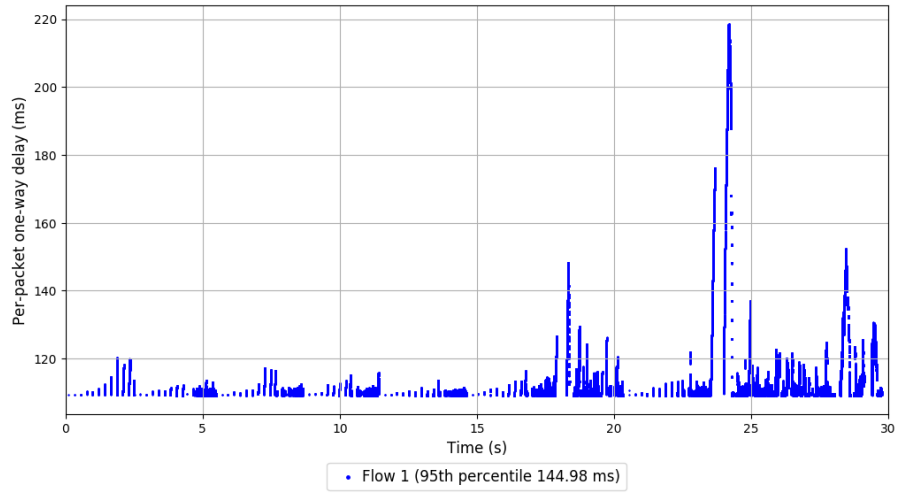
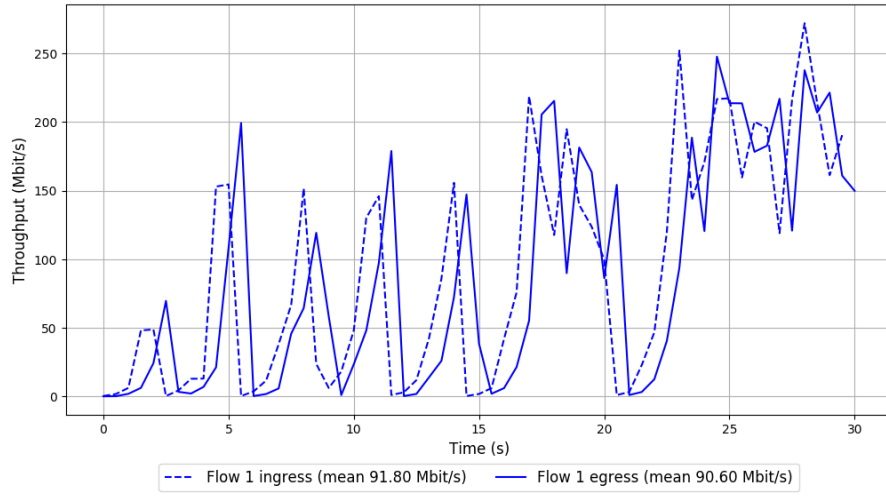


Run 1: Statistics of Verus

Start at: 2019-04-23 17:54:47  
End at: 2019-04-23 17:55:17  
Local clock offset: 8.856 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-04-23 22:01:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.60 Mbit/s  
95th percentile per-packet one-way delay: 144.983 ms  
Loss rate: 2.04%  
-- Flow 1:  
Average throughput: 90.60 Mbit/s  
95th percentile per-packet one-way delay: 144.983 ms  
Loss rate: 2.04%

Run 1: Report of Verus — Data Link

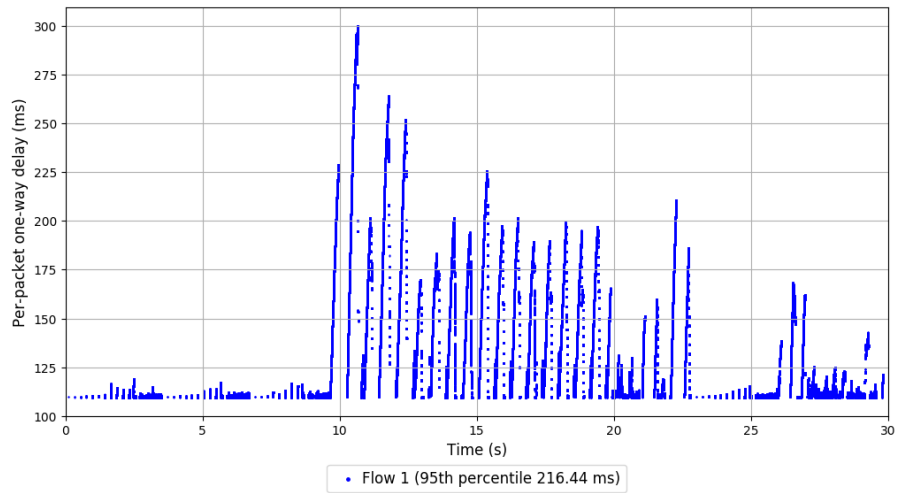
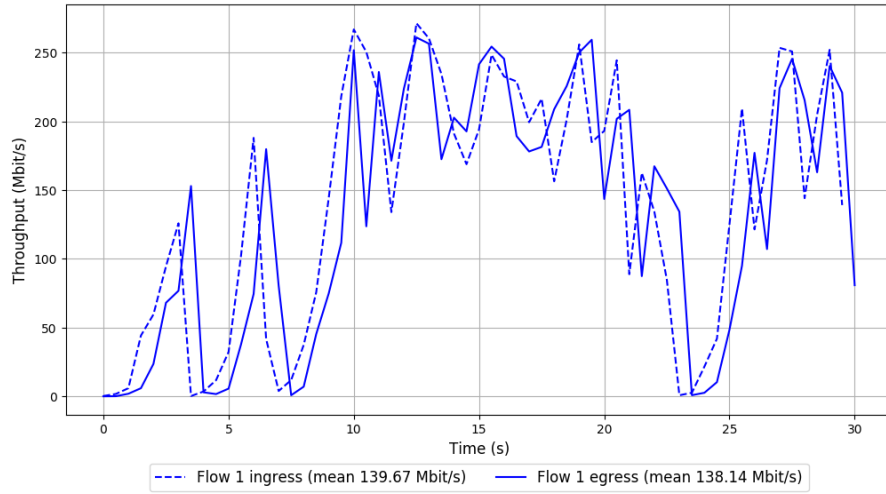


Run 2: Statistics of Verus

Start at: 2019-04-23 18:26:09  
End at: 2019-04-23 18:26:39  
Local clock offset: 19.885 ms  
Remote clock offset: -0.328 ms

# Below is generated by plot.py at 2019-04-23 22:01:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 138.14 Mbit/s  
95th percentile per-packet one-way delay: 216.435 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 138.14 Mbit/s  
95th percentile per-packet one-way delay: 216.435 ms  
Loss rate: 1.93%

## Run 2: Report of Verus — Data Link



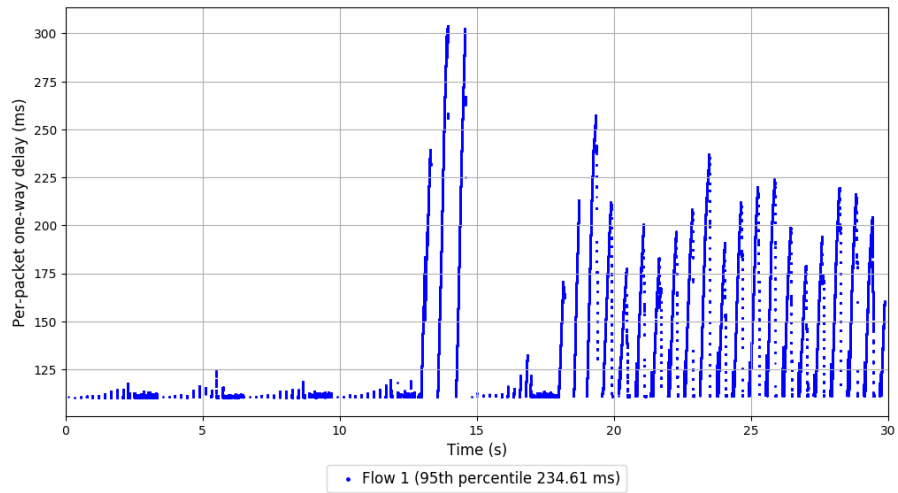
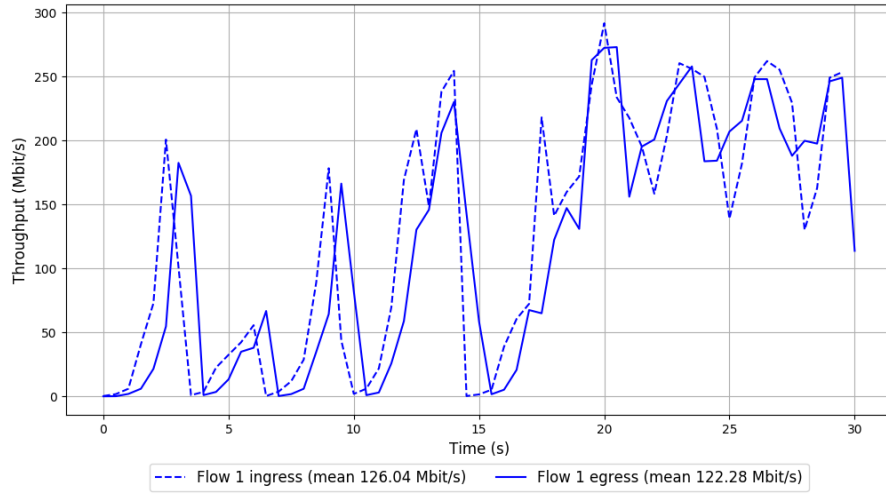


Run 3: Statistics of Verus

Start at: 2019-04-23 18:57:21  
End at: 2019-04-23 18:57:51  
Local clock offset: 26.574 ms  
Remote clock offset: -0.254 ms

# Below is generated by plot.py at 2019-04-23 22:01:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 122.28 Mbit/s  
95th percentile per-packet one-way delay: 234.611 ms  
Loss rate: 3.62%  
-- Flow 1:  
Average throughput: 122.28 Mbit/s  
95th percentile per-packet one-way delay: 234.611 ms  
Loss rate: 3.62%

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

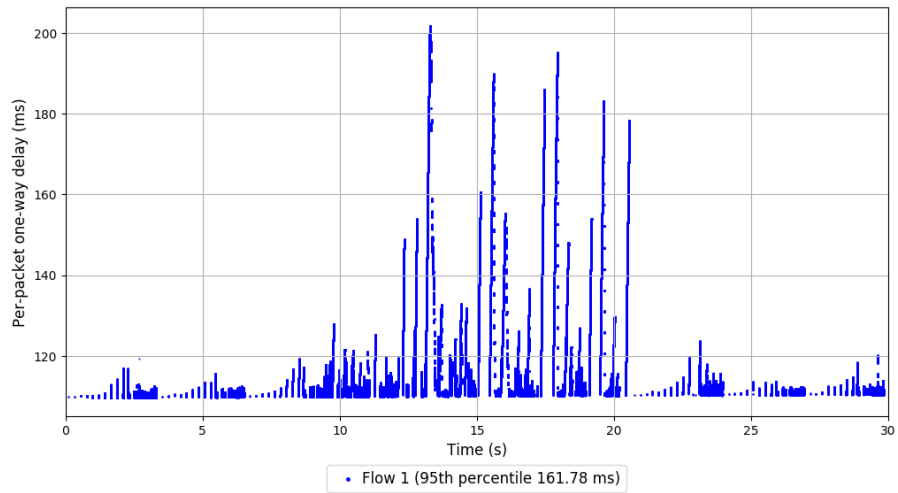
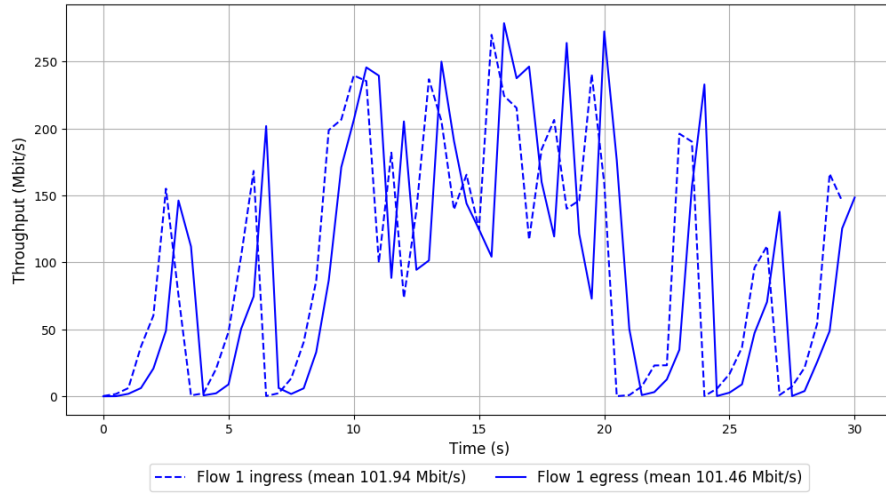


Run 4: Statistics of Verus

Start at: 2019-04-23 19:28:36  
End at: 2019-04-23 19:29:06  
Local clock offset: 17.267 ms  
Remote clock offset: -0.165 ms

```
# Below is generated by plot.py at 2019-04-23 22:01:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 101.46 Mbit/s
95th percentile per-packet one-way delay: 161.780 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 101.46 Mbit/s
95th percentile per-packet one-way delay: 161.780 ms
Loss rate: 0.71%
```

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



Run 5: Statistics of Verus

Start at: 2019-04-23 19:59:47

End at: 2019-04-23 20:00:17

Local clock offset: 9.273 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-04-23 22:01:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 130.600 ms

Loss rate: 1.02%

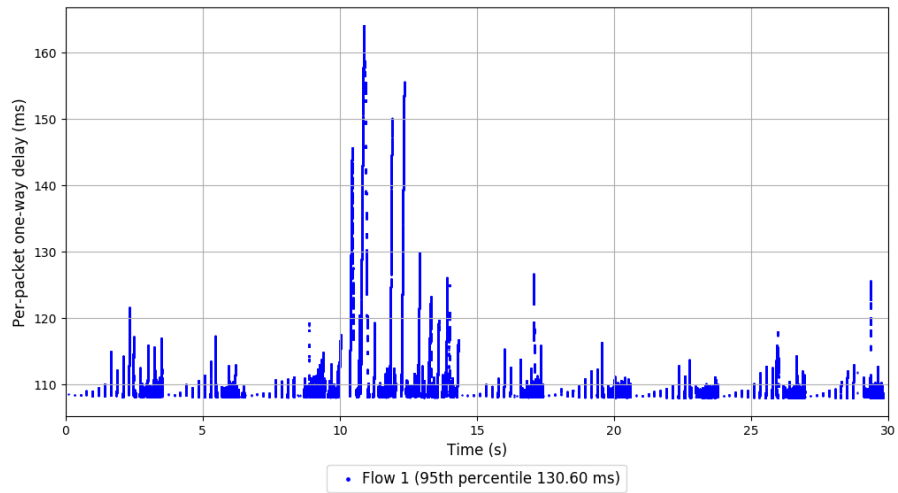
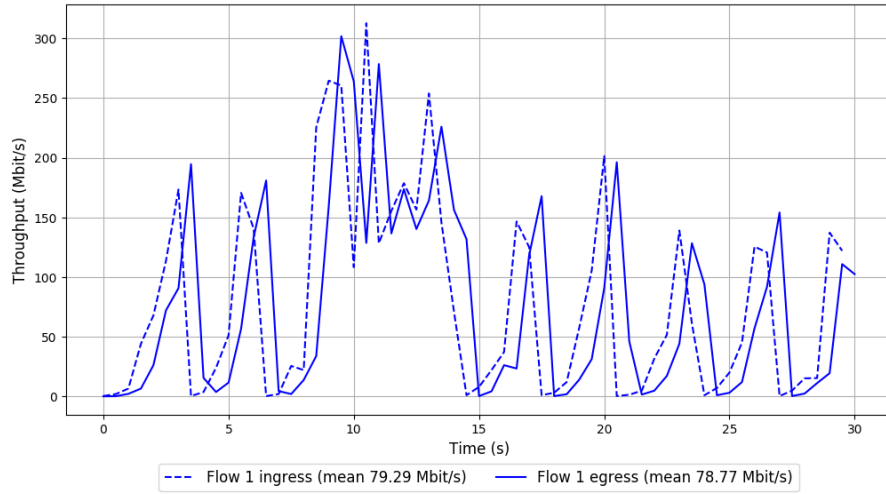
-- Flow 1:

Average throughput: 78.77 Mbit/s

95th percentile per-packet one-way delay: 130.600 ms

Loss rate: 1.02%

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



Run 1: Statistics of PCC-Vivace

Start at: 2019-04-23 17:46:12

End at: 2019-04-23 17:46:42

Local clock offset: 2.475 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-04-23 22:01:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 229.89 Mbit/s

95th percentile per-packet one-way delay: 109.647 ms

Loss rate: 1.15%

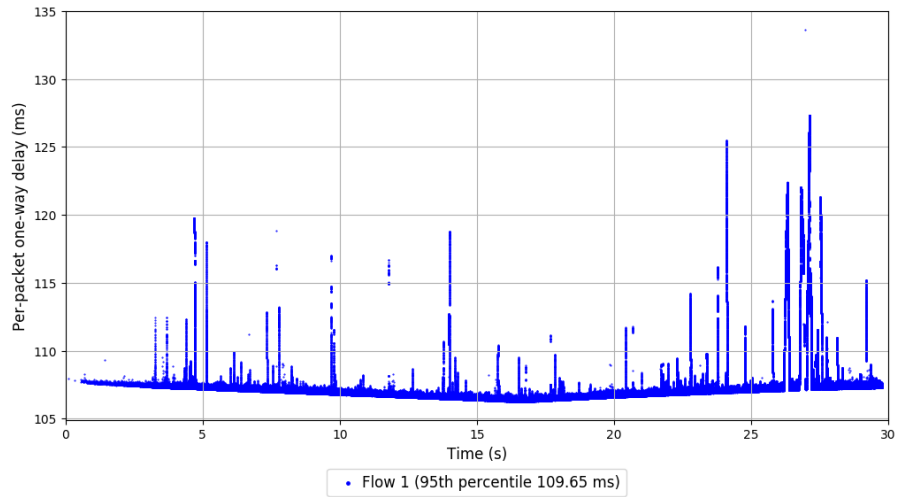
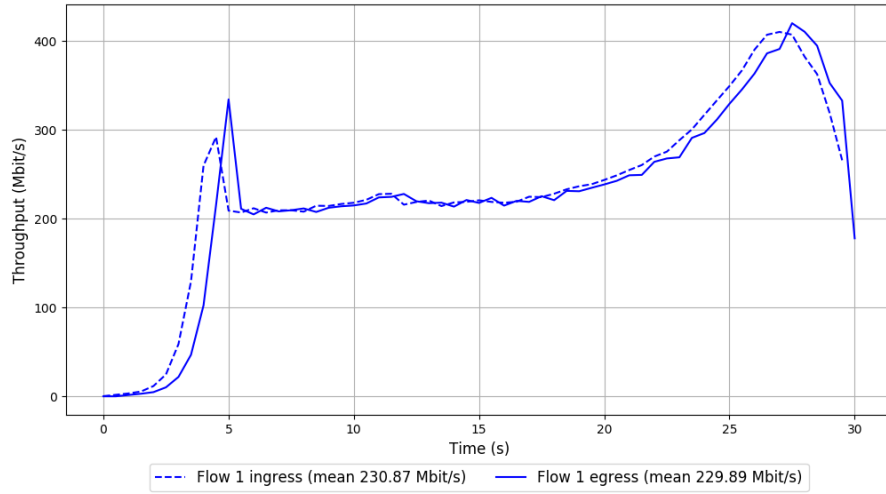
-- Flow 1:

Average throughput: 229.89 Mbit/s

95th percentile per-packet one-way delay: 109.647 ms

Loss rate: 1.15%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-04-23 18:17:30

End at: 2019-04-23 18:18:00

Local clock offset: 24.441 ms

Remote clock offset: -0.63 ms

# Below is generated by plot.py at 2019-04-23 22:01:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 214.64 Mbit/s

95th percentile per-packet one-way delay: 108.293 ms

Loss rate: 0.84%

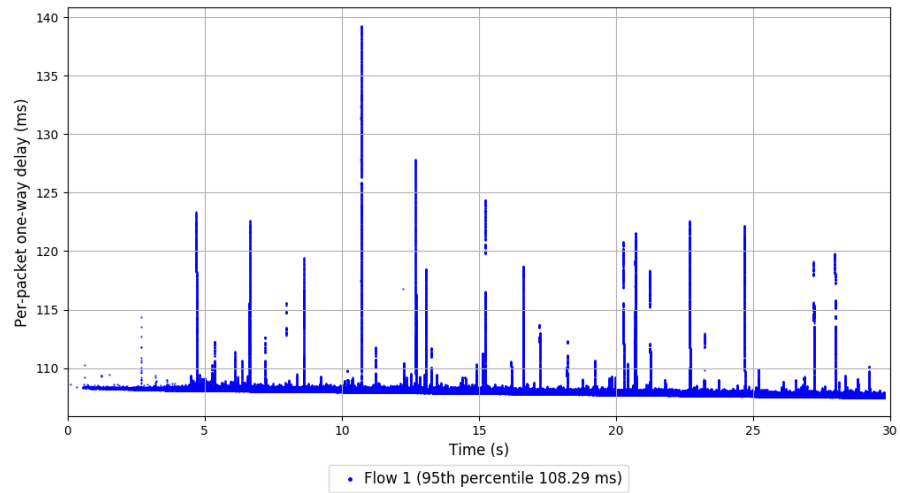
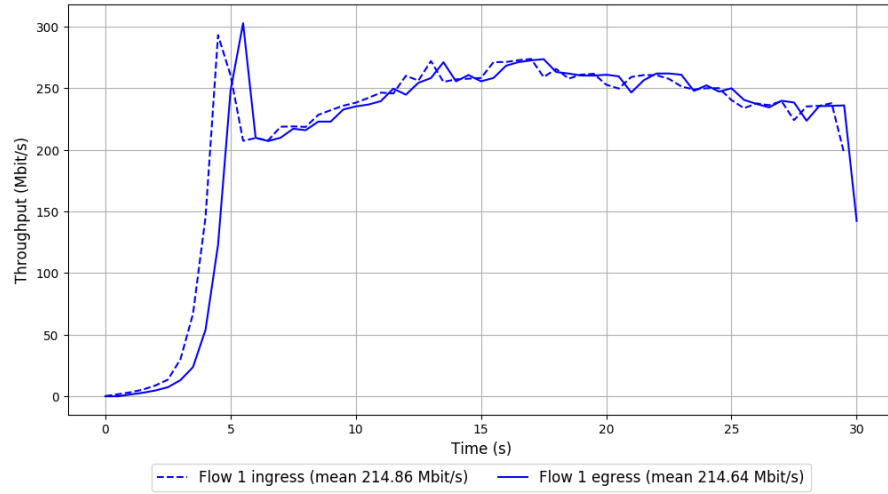
-- Flow 1:

Average throughput: 214.64 Mbit/s

95th percentile per-packet one-way delay: 108.293 ms

Loss rate: 0.84%

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



Run 3: Statistics of PCC-Vivace

Start at: 2019-04-23 18:48:27

End at: 2019-04-23 18:48:57

Local clock offset: 34.98 ms

Remote clock offset: -0.339 ms

# Below is generated by plot.py at 2019-04-23 22:02:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 306.49 Mbit/s

95th percentile per-packet one-way delay: 111.714 ms

Loss rate: 0.79%

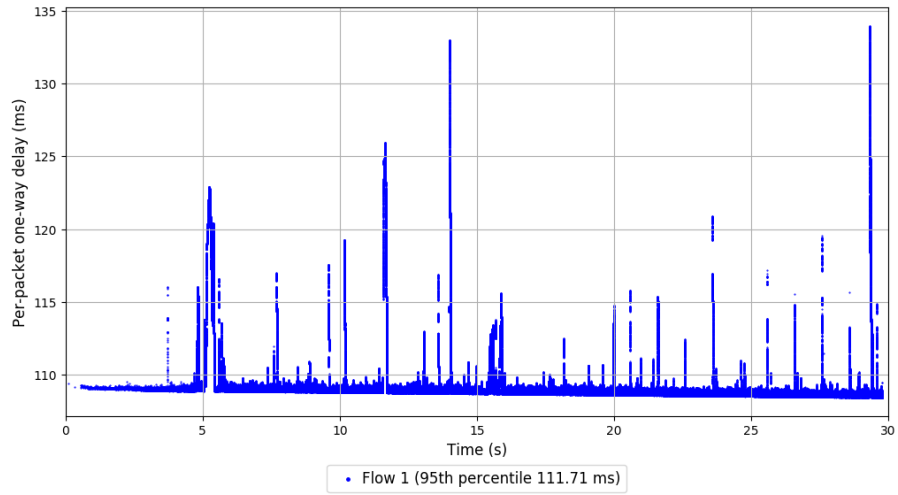
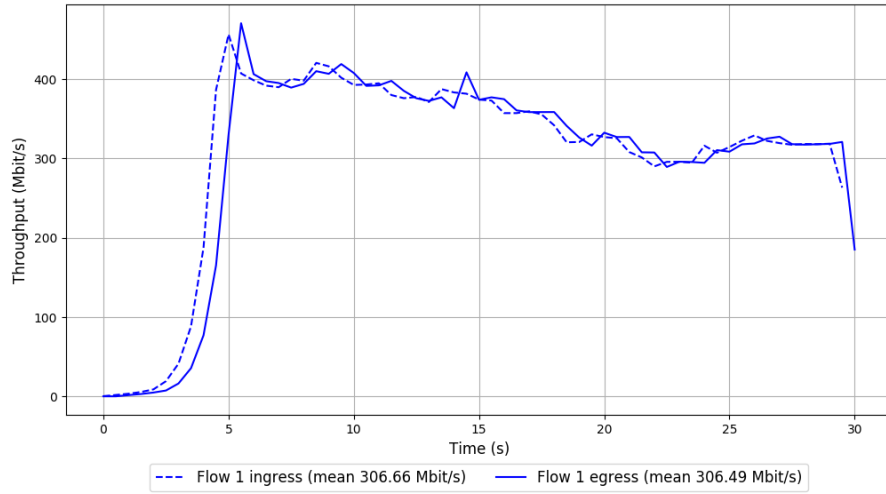
-- Flow 1:

Average throughput: 306.49 Mbit/s

95th percentile per-packet one-way delay: 111.714 ms

Loss rate: 0.79%

### Run 3: Report of PCC-Vivace — Data Link

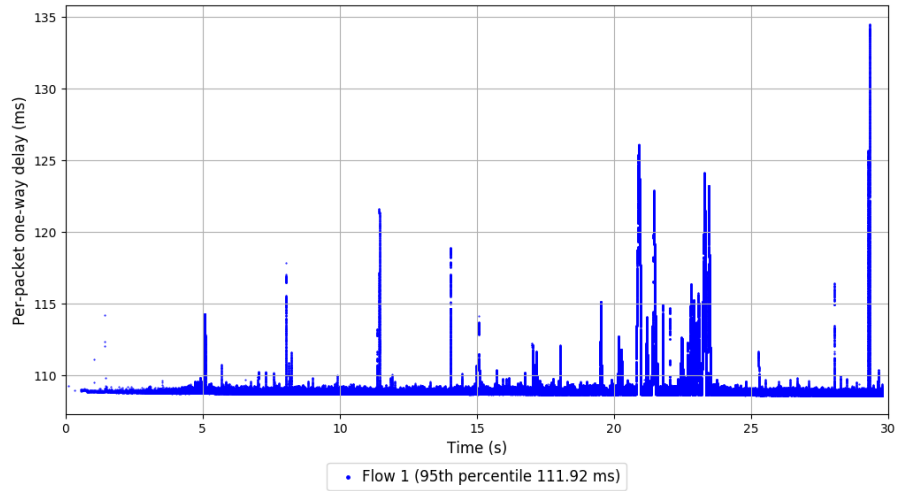
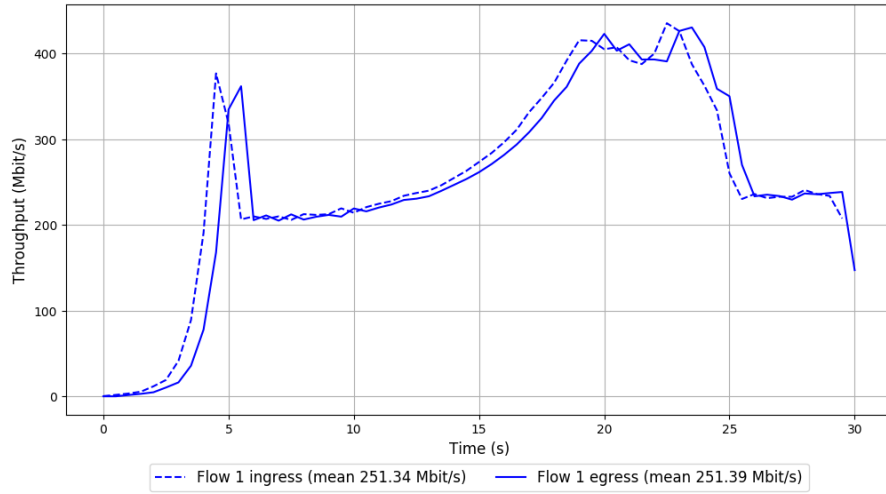


Run 4: Statistics of PCC-Vivace

Start at: 2019-04-23 19:19:45  
End at: 2019-04-23 19:20:15  
Local clock offset: 16.961 ms  
Remote clock offset: -0.142 ms

```
# Below is generated by plot.py at 2019-04-23 22:02:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.39 Mbit/s
95th percentile per-packet one-way delay: 111.915 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 251.39 Mbit/s
95th percentile per-packet one-way delay: 111.915 ms
Loss rate: 0.72%
```

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



Run 5: Statistics of PCC-Vivace

Start at: 2019-04-23 19:50:51

End at: 2019-04-23 19:51:21

Local clock offset: 7.76 ms

Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-04-23 22:02:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 237.26 Mbit/s

95th percentile per-packet one-way delay: 109.238 ms

Loss rate: 0.92%

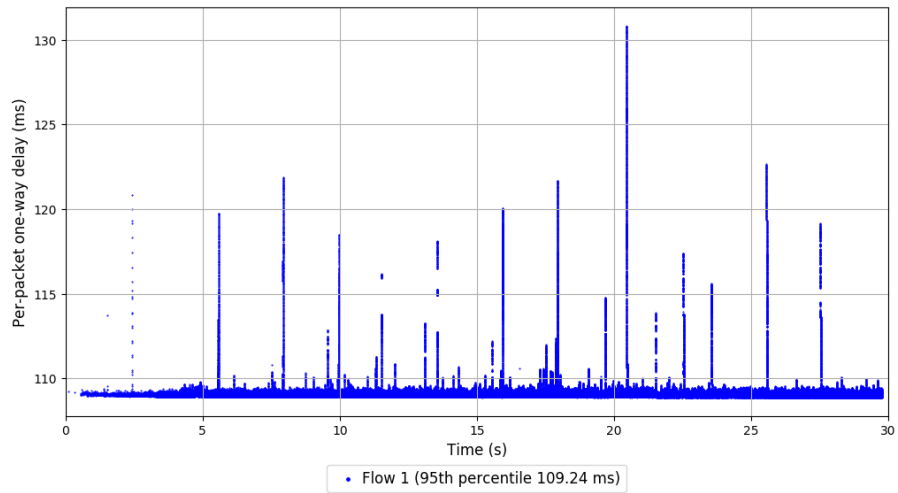
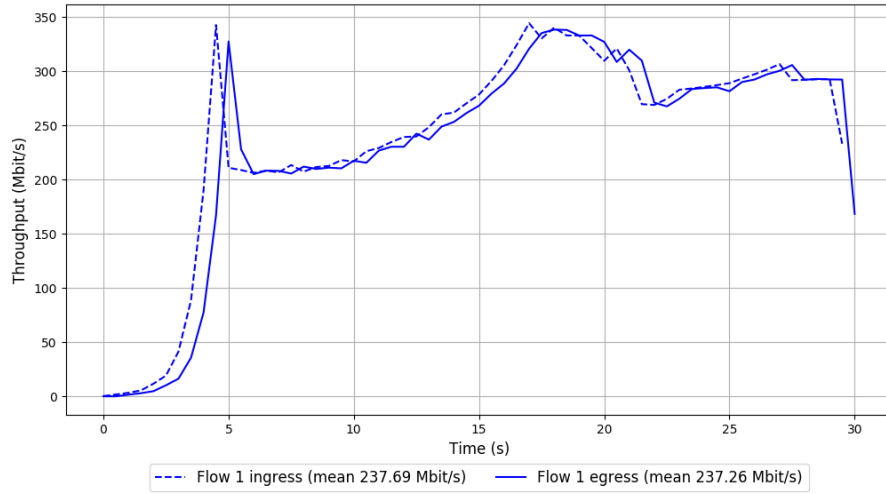
-- Flow 1:

Average throughput: 237.26 Mbit/s

95th percentile per-packet one-way delay: 109.238 ms

Loss rate: 0.92%

Run 5: Report of PCC-Vivace — Data Link





Run 1: Statistics of WebRTC media

Start at: 2019-04-23 18:02:37

End at: 2019-04-23 18:03:07

Local clock offset: 16.58 ms

Remote clock offset: -0.315 ms

# Below is generated by plot.py at 2019-04-23 22:02:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 111.651 ms

Loss rate: 0.91%

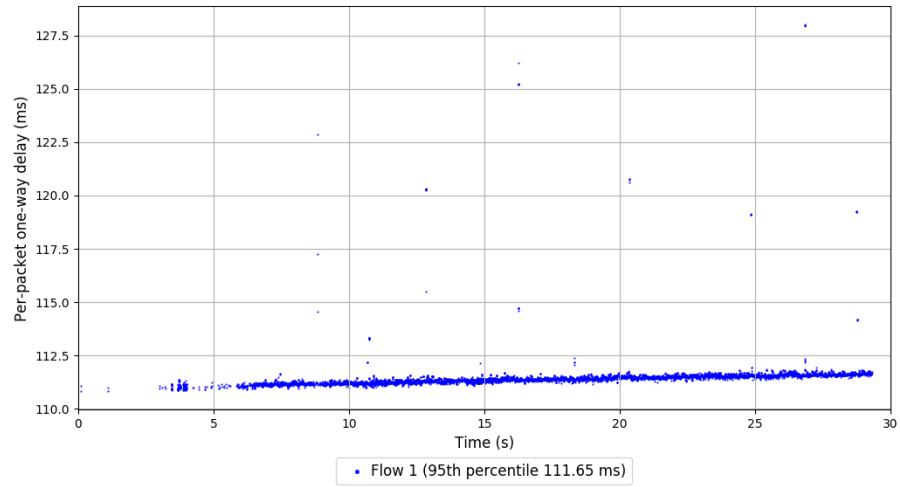
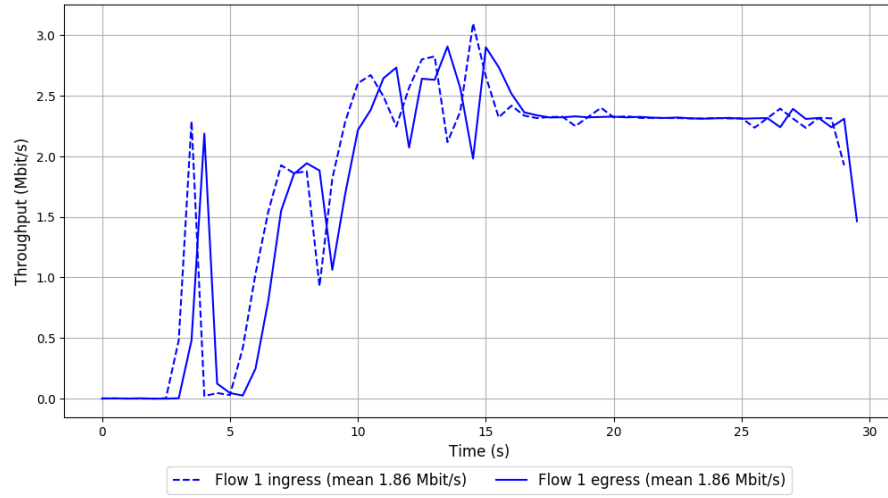
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 111.651 ms

Loss rate: 0.91%

### Run 1: Report of WebRTC media — Data Link

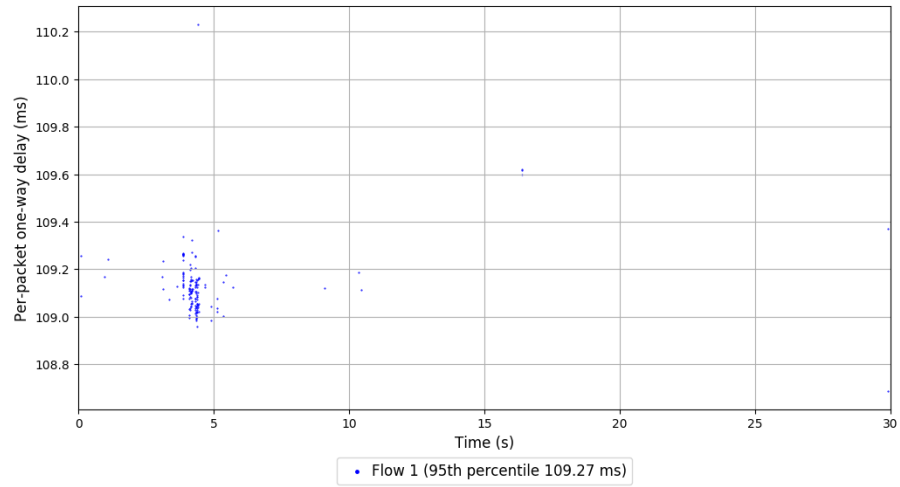
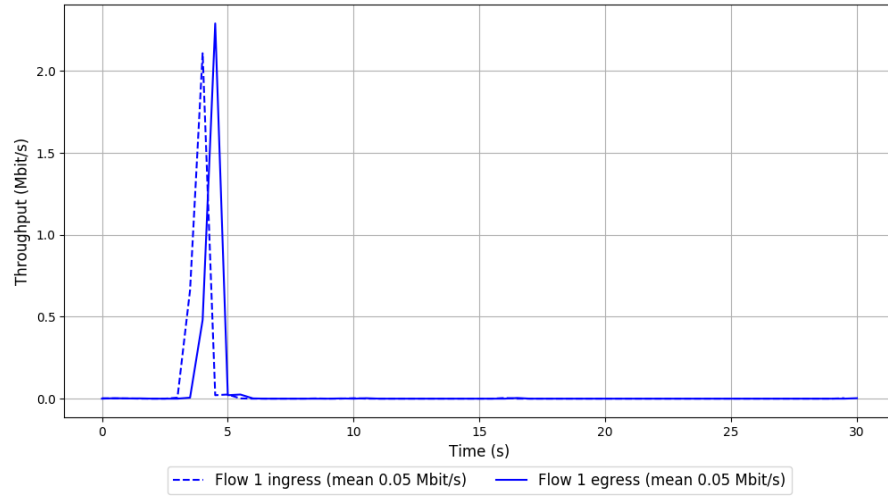


Run 2: Statistics of WebRTC media

Start at: 2019-04-23 18:33:48  
End at: 2019-04-23 18:34:18  
Local clock offset: 21.847 ms  
Remote clock offset: -0.271 ms

# Below is generated by plot.py at 2019-04-23 22:02:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 109.272 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 109.272 ms  
Loss rate: 0.00%

## Run 2: Report of WebRTC media — Data Link

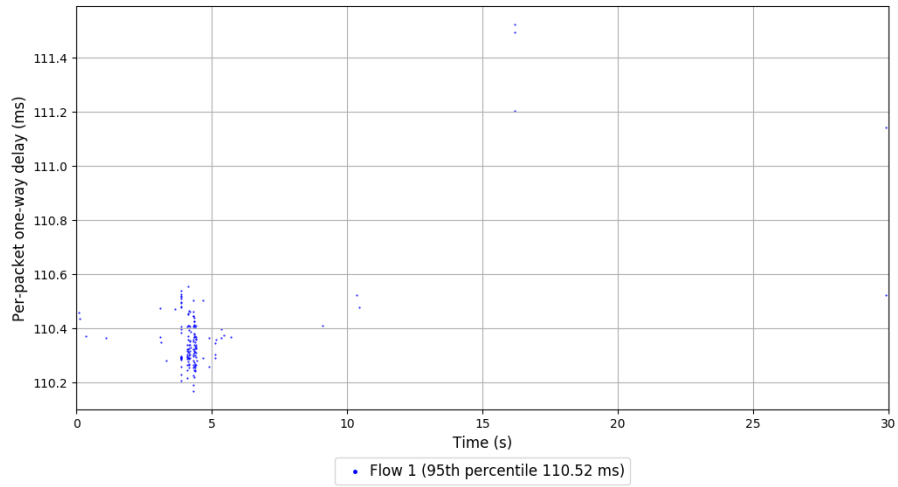
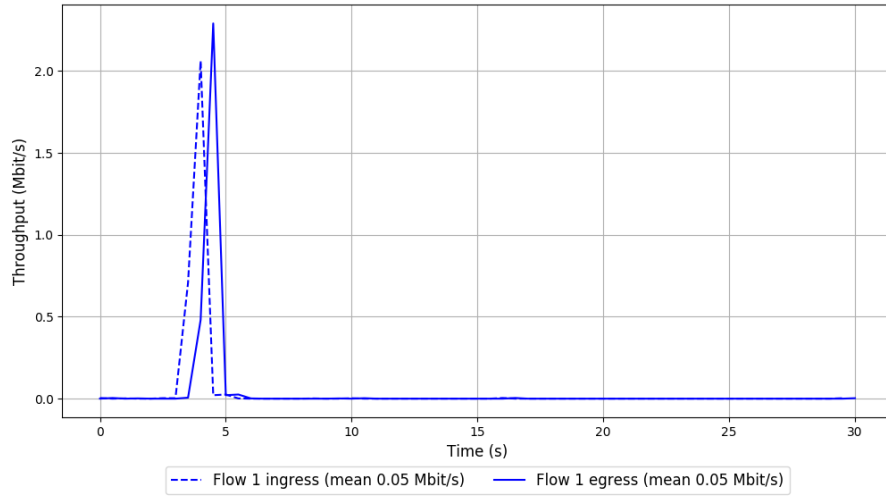


Run 3: Statistics of WebRTC media

Start at: 2019-04-23 19:04:56  
End at: 2019-04-23 19:05:26  
Local clock offset: 17.192 ms  
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-04-23 22:02:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 110.523 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 110.523 ms  
Loss rate: 0.00%

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



Run 4: Statistics of WebRTC media

Start at: 2019-04-23 19:36:03

End at: 2019-04-23 19:36:34

Local clock offset: 9.292 ms

Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-04-23 22:02:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.599 ms

Loss rate: 0.00%

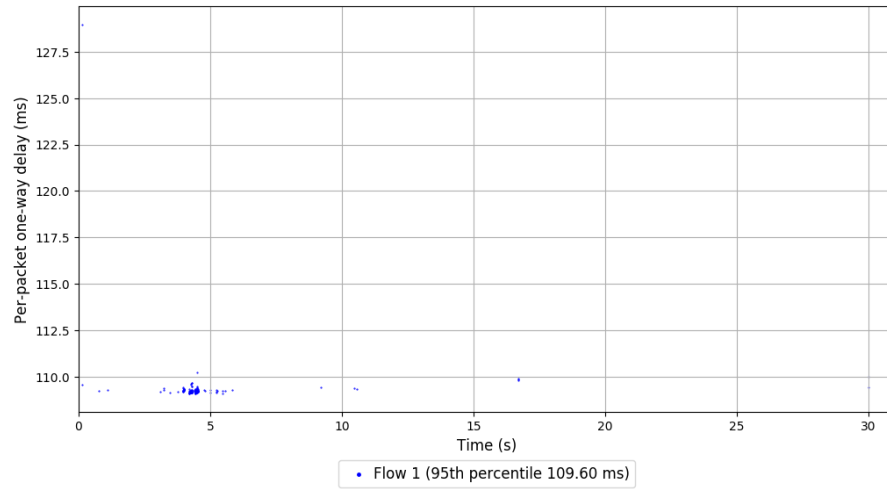
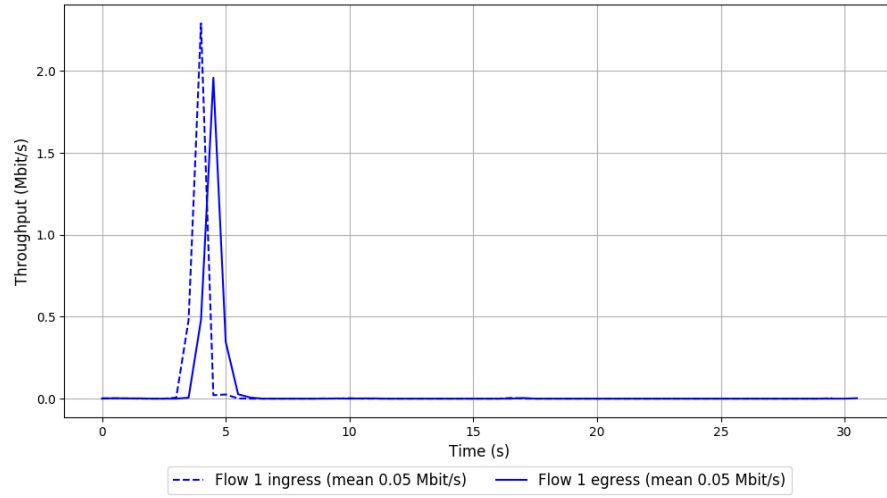
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.599 ms

Loss rate: 0.00%

#### Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-04-23 20:07:22

End at: 2019-04-23 20:07:52

Local clock offset: 5.564 ms

Remote clock offset: -0.007 ms

### Run 5: Report of WebRTC media — Data Link

