

## Pantheon Report

Generated at 2019-06-27 15:40:27 (UTC).

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

Repeated the test of 22 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:

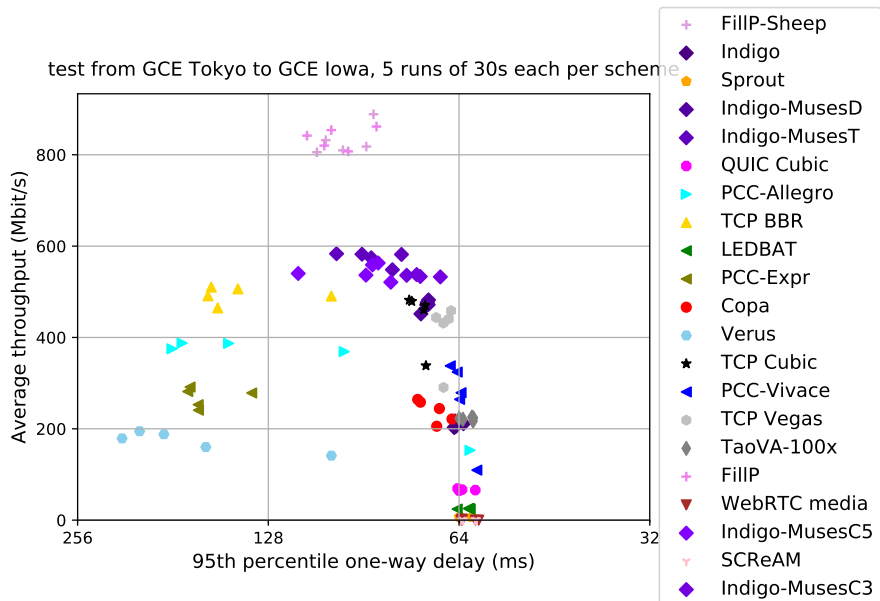
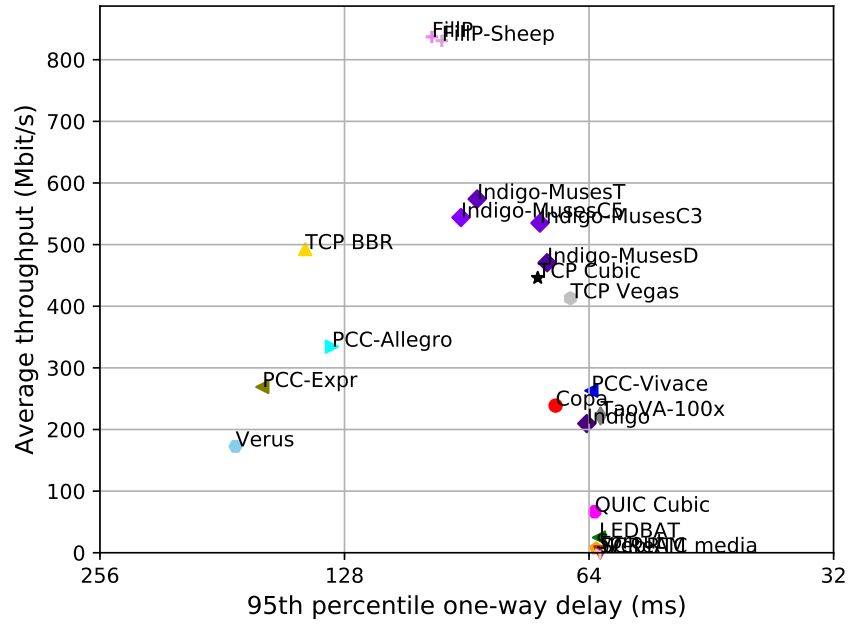
```
Linux 4.15.0-1032-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/__init__.pyc
M helpers/context.pyc
M helpers/utls.pyc
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 Tokyo to GCE Iowa, 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	492.68	143.10	0.69
Copa	5	238.75	70.37	0.42
TCP Cubic	5	446.01	74.01	0.51
FillP	5	837.06	99.92	0.71
FillP-Sheep	5	830.81	97.15	0.57
Indigo	5	209.60	64.42	0.46
Indigo-MusesC3	4	534.93	73.57	0.49
Indigo-MusesC5	5	543.91	92.02	0.53
Indigo-MusesD	5	470.69	72.08	0.49
Indigo-MusesT	5	574.02	87.89	0.49
LEDBAT	5	24.67	62.21	0.82
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	334.36	132.64	1.11
PCC-Expr	5	269.00	161.58	1.97
QUIC Cubic	4	66.59	62.99	0.64
SCReAM	5	0.22	62.05	0.46
Sprout	5	6.89	62.72	0.41
TaoVA-100x	5	222.05	61.94	0.46
TCP Vegas	5	412.92	67.47	0.38
Verus	5	172.58	174.32	1.34
PCC-Vivace	5	262.99	63.59	0.57
WebRTC media	5	0.51	61.99	0.13



Run 1: Statistics of TCP BBR

Start at: 2019-06-27 11:35:16

End at: 2019-06-27 11:35:46

Local clock offset: 0.055 ms

Remote clock offset: -0.914 ms

# Below is generated by plot.py at 2019-06-27 14:10:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 491.22 Mbit/s

95th percentile per-packet one-way delay: 159.383 ms

Loss rate: 0.68%

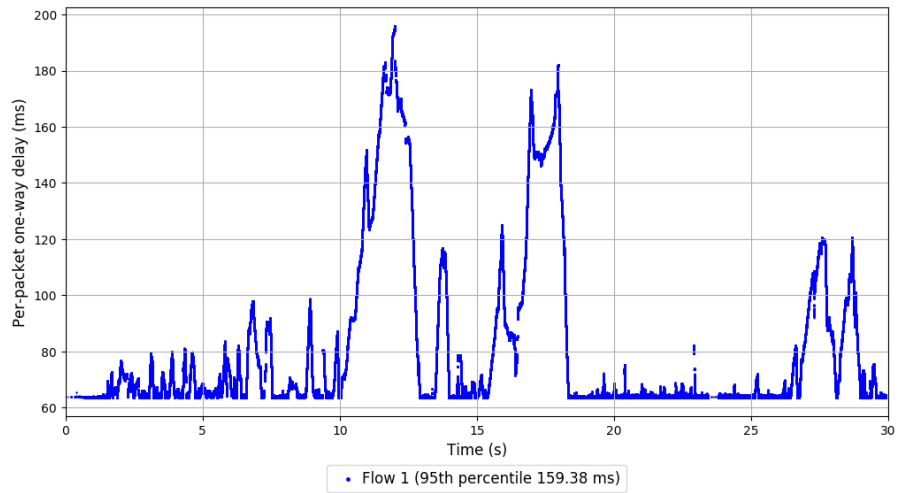
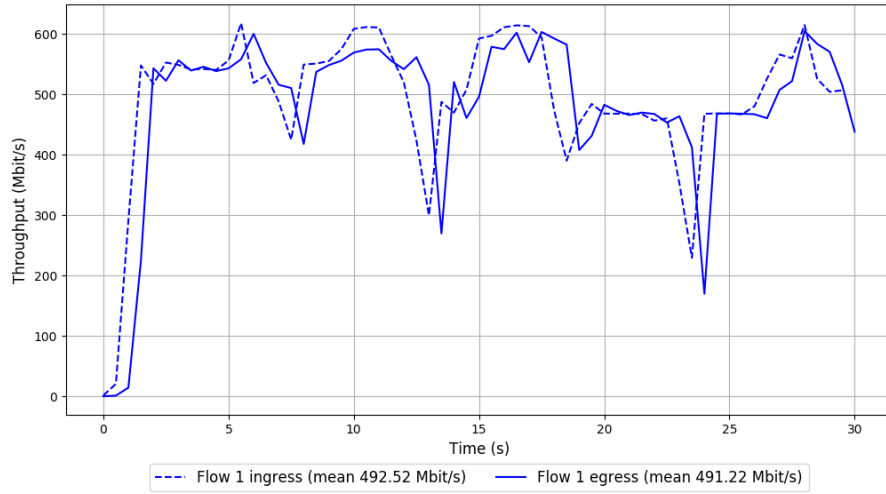
-- Flow 1:

Average throughput: 491.22 Mbit/s

95th percentile per-packet one-way delay: 159.383 ms

Loss rate: 0.68%

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



Run 2: Statistics of TCP BBR

Start at: 2019-06-27 12:06:50  
End at: 2019-06-27 12:07:20  
Local clock offset: -0.142 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-06-27 14:10:55

# Datalink statistics

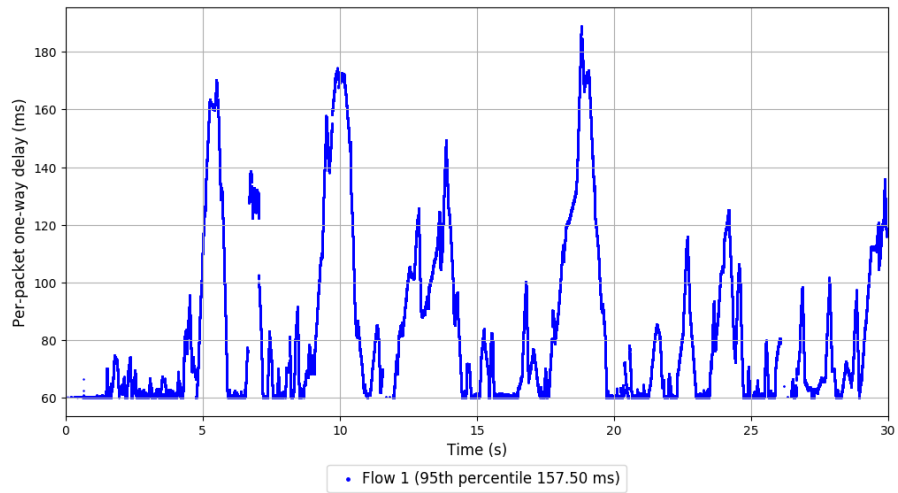
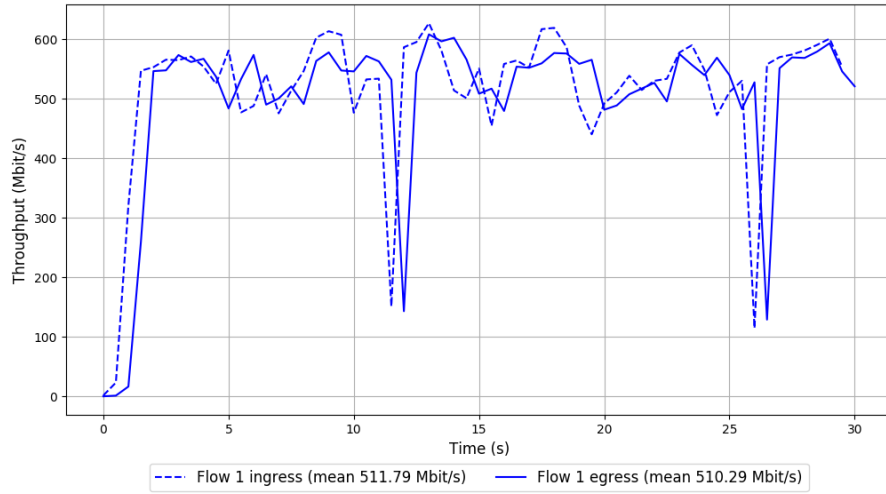
-- Total of 1 flow:

Average throughput: 510.29 Mbit/s  
95th percentile per-packet one-way delay: 157.505 ms  
Loss rate: 0.71%

-- Flow 1:

Average throughput: 510.29 Mbit/s  
95th percentile per-packet one-way delay: 157.505 ms  
Loss rate: 0.71%

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



Run 3: Statistics of TCP BBR

Start at: 2019-06-27 12:38:03

End at: 2019-06-27 12:38:33

Local clock offset: -0.031 ms

Remote clock offset: 0.536 ms

# Below is generated by plot.py at 2019-06-27 14:10:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 506.51 Mbit/s

95th percentile per-packet one-way delay: 142.960 ms

Loss rate: 0.47%

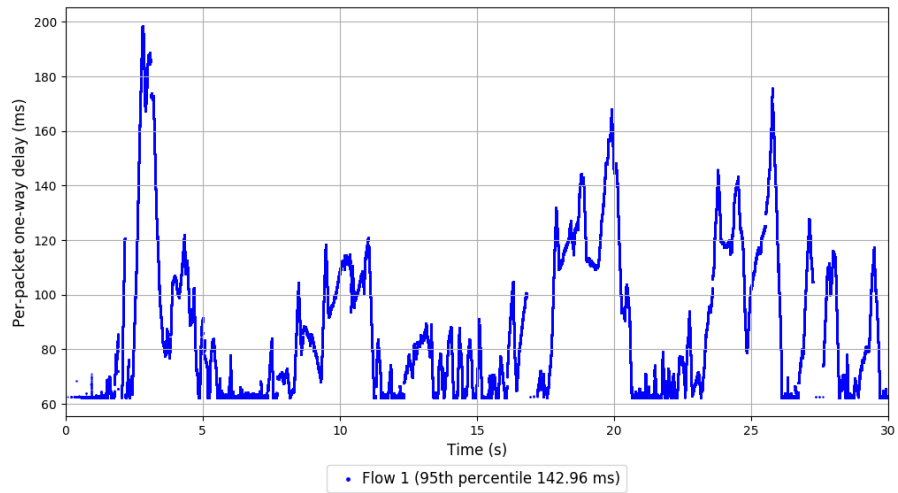
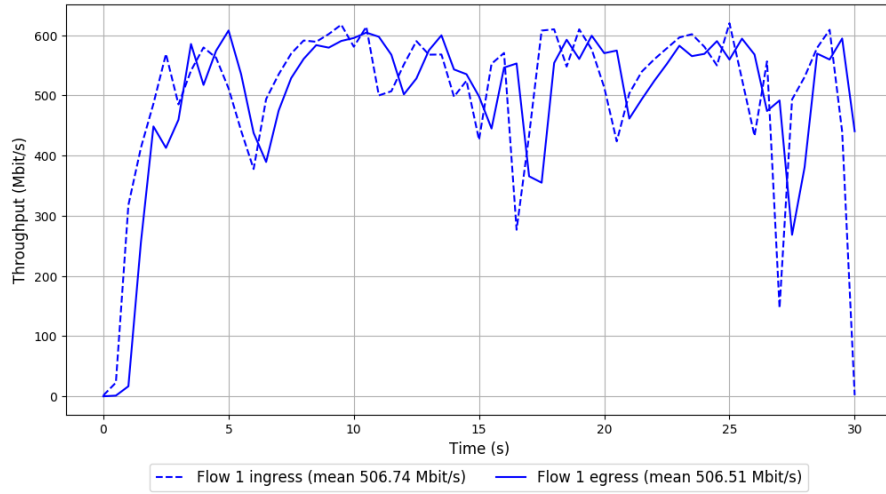
-- Flow 1:

Average throughput: 506.51 Mbit/s

95th percentile per-packet one-way delay: 142.960 ms

Loss rate: 0.47%

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



Run 4: Statistics of TCP BBR

Start at: 2019-06-27 13:09:14

End at: 2019-06-27 13:09:44

Local clock offset: -0.02 ms

Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2019-06-27 14:10:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 490.75 Mbit/s

95th percentile per-packet one-way delay: 101.804 ms

Loss rate: 0.59%

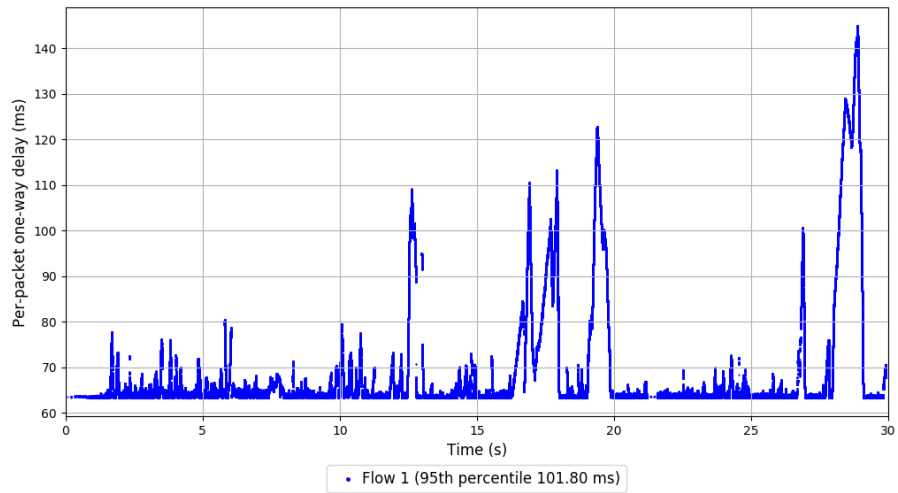
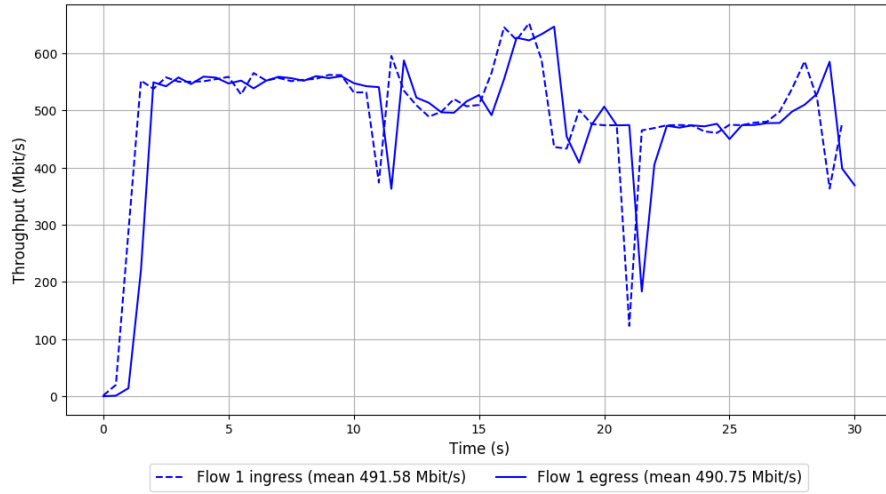
-- Flow 1:

Average throughput: 490.75 Mbit/s

95th percentile per-packet one-way delay: 101.804 ms

Loss rate: 0.59%

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





Run 5: Statistics of TCP BBR

Start at: 2019-06-27 13:40:48

End at: 2019-06-27 13:41:18

Local clock offset: -0.005 ms

Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-06-27 14:10:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 464.64 Mbit/s

95th percentile per-packet one-way delay: 153.847 ms

Loss rate: 0.99%

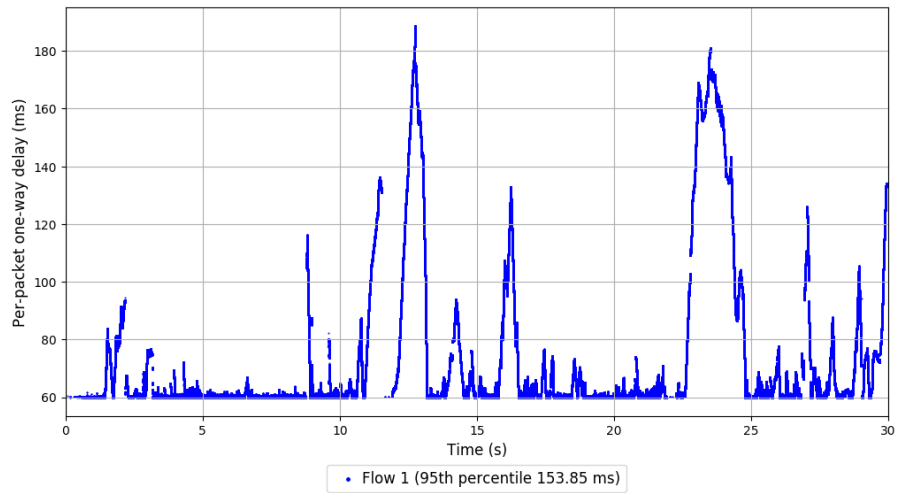
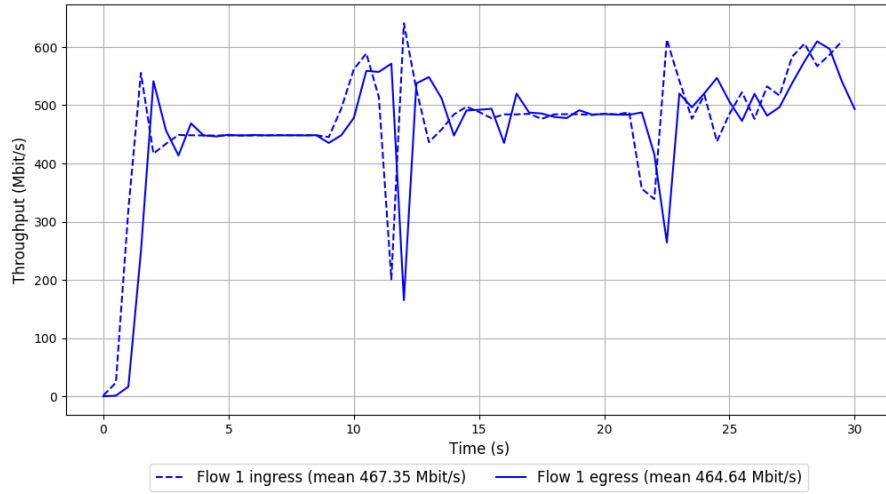
-- Flow 1:

Average throughput: 464.64 Mbit/s

95th percentile per-packet one-way delay: 153.847 ms

Loss rate: 0.99%

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



Run 1: Statistics of Copa

Start at: 2019-06-27 11:26:23

End at: 2019-06-27 11:26:53

Local clock offset: 0.053 ms

Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-06-27 14:10:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 244.25 Mbit/s

95th percentile per-packet one-way delay: 68.736 ms

Loss rate: 0.41%

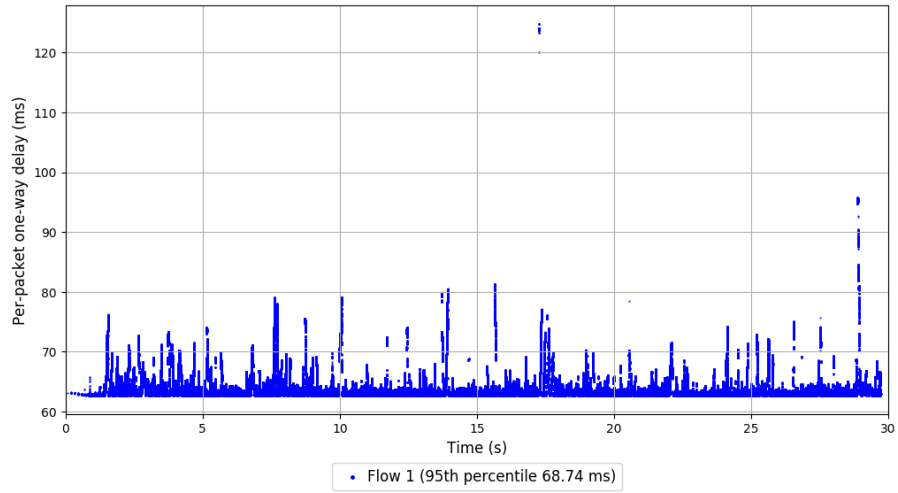
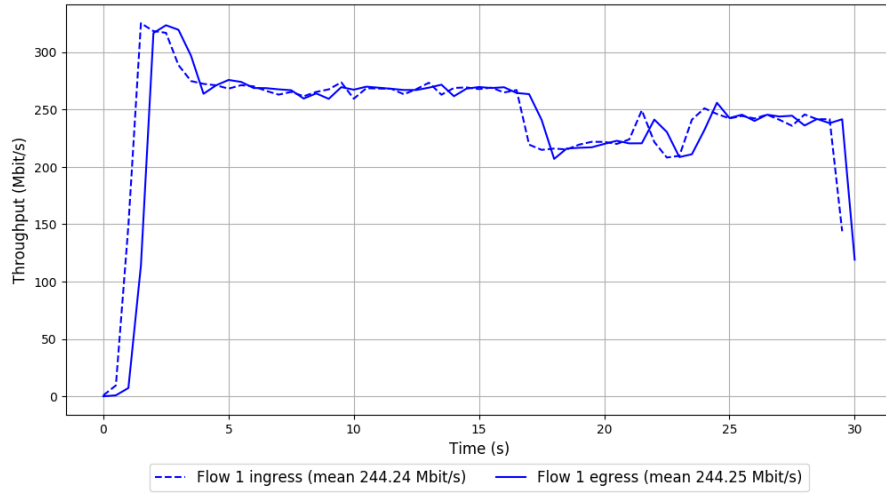
-- Flow 1:

Average throughput: 244.25 Mbit/s

95th percentile per-packet one-way delay: 68.736 ms

Loss rate: 0.41%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-06-27 11:57:54

End at: 2019-06-27 11:58:24

Local clock offset: -0.105 ms

Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2019-06-27 14:10:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.41 Mbit/s

95th percentile per-packet one-way delay: 65.663 ms

Loss rate: 0.45%

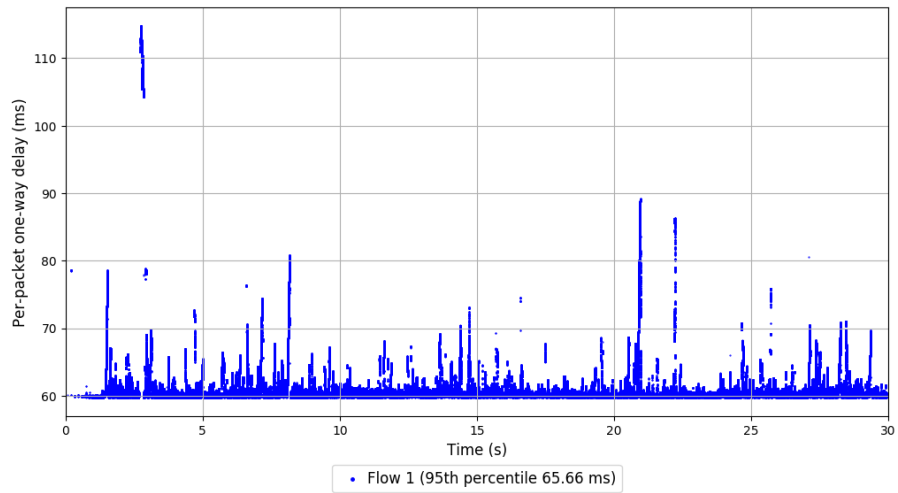
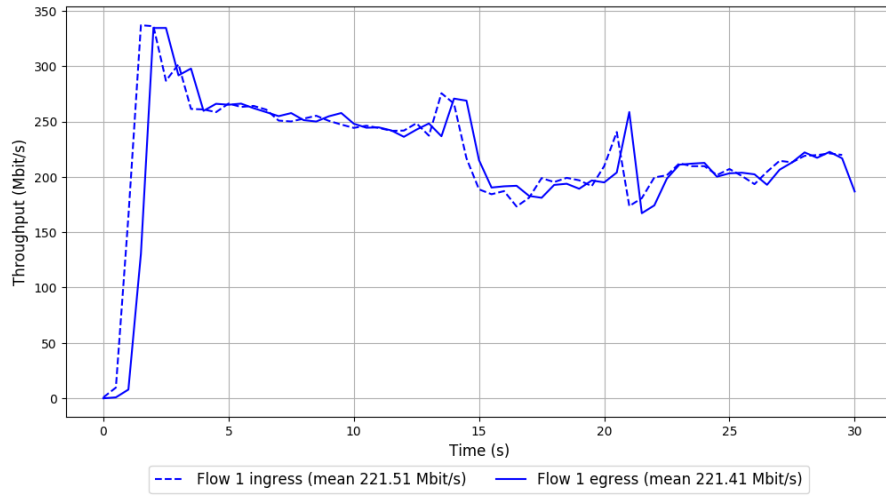
-- Flow 1:

Average throughput: 221.41 Mbit/s

95th percentile per-packet one-way delay: 65.663 ms

Loss rate: 0.45%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-06-27 12:29:11  
End at: 2019-06-27 12:29:41  
Local clock offset: -0.057 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-06-27 14:10:55

# Datalink statistics

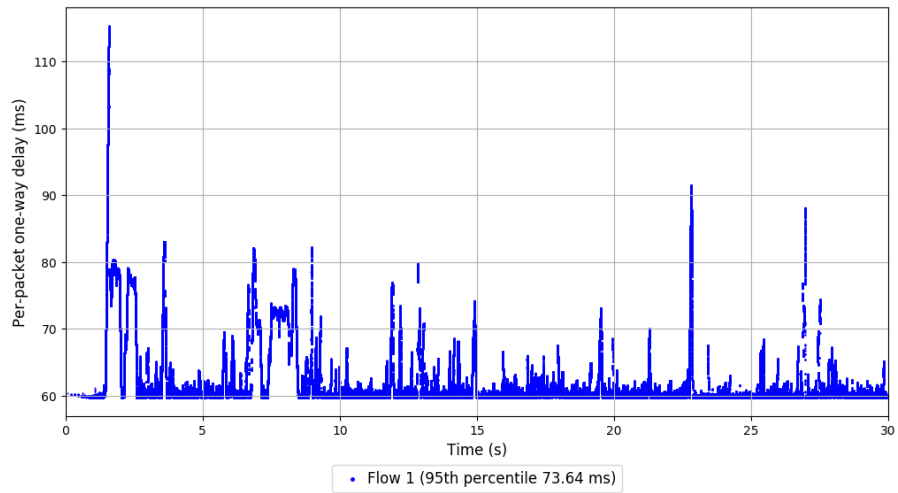
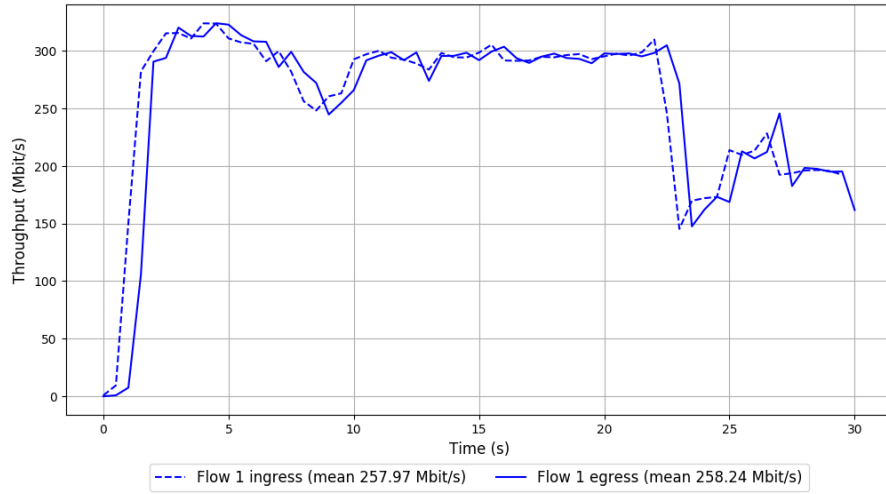
-- Total of 1 flow:

Average throughput: 258.24 Mbit/s  
95th percentile per-packet one-way delay: 73.640 ms  
Loss rate: 0.31%

-- Flow 1:

Average throughput: 258.24 Mbit/s  
95th percentile per-packet one-way delay: 73.640 ms  
Loss rate: 0.31%

### Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-06-27 13:00:46

End at: 2019-06-27 13:01:16

Local clock offset: -0.021 ms

Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2019-06-27 14:15:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 205.58 Mbit/s

95th percentile per-packet one-way delay: 69.410 ms

Loss rate: 0.47%

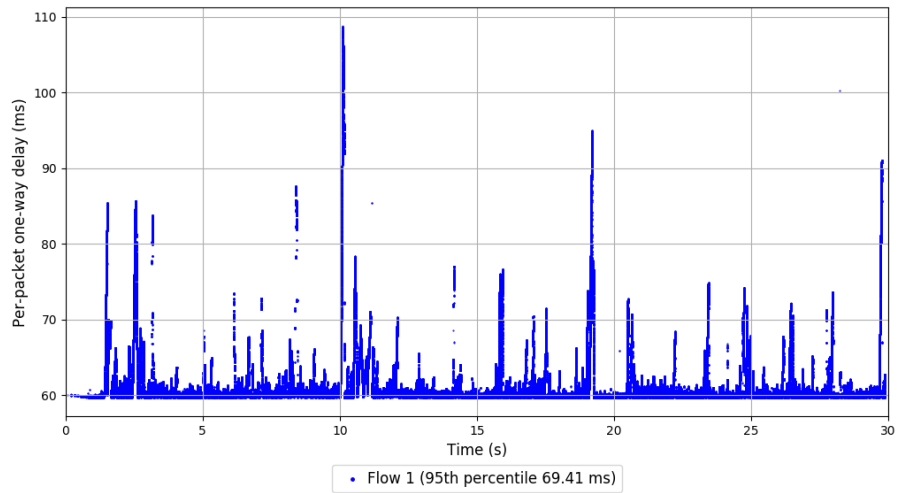
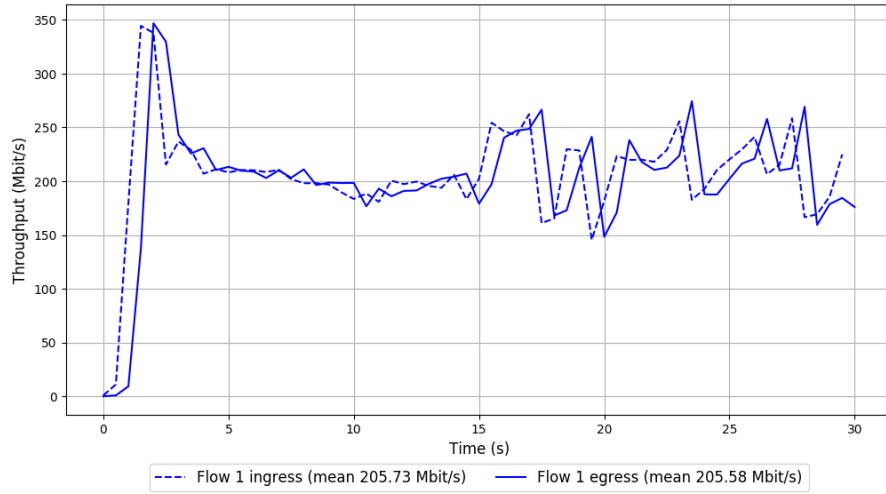
-- Flow 1:

Average throughput: 205.58 Mbit/s

95th percentile per-packet one-way delay: 69.410 ms

Loss rate: 0.47%

### Run 4: Report of Copa — Data Link

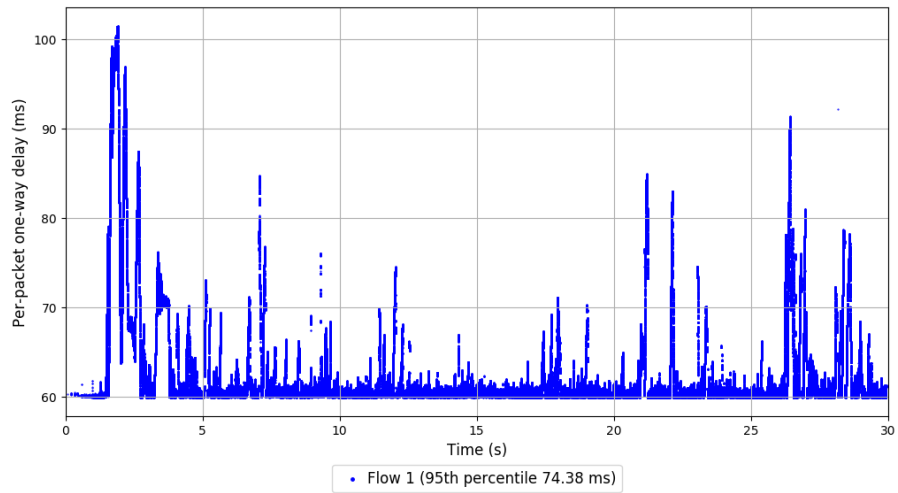
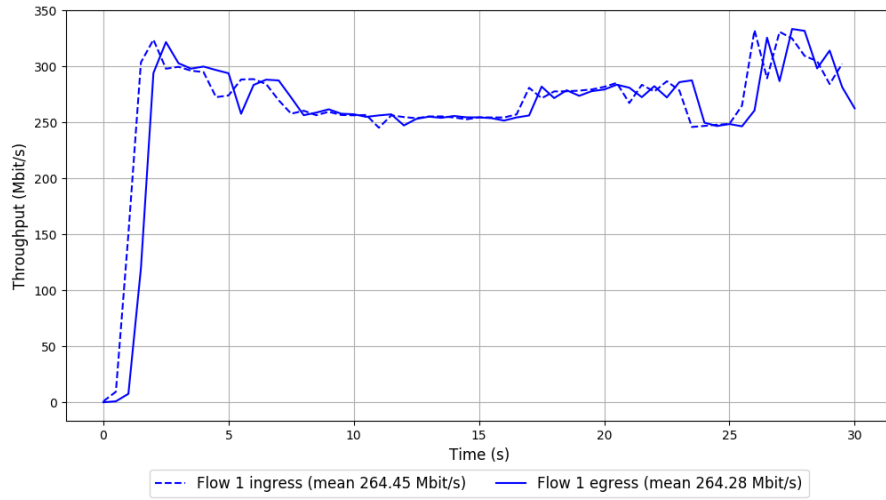


Run 5: Statistics of Copa

Start at: 2019-06-27 13:31:52  
End at: 2019-06-27 13:32:22  
Local clock offset: -0.019 ms  
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2019-06-27 14:18:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 264.28 Mbit/s  
95th percentile per-packet one-way delay: 74.381 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 264.28 Mbit/s  
95th percentile per-packet one-way delay: 74.381 ms  
Loss rate: 0.48%

### Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-06-27 11:19:36  
End at: 2019-06-27 11:20:06  
Local clock offset: 0.019 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-06-27 14:18:35

# Datalink statistics

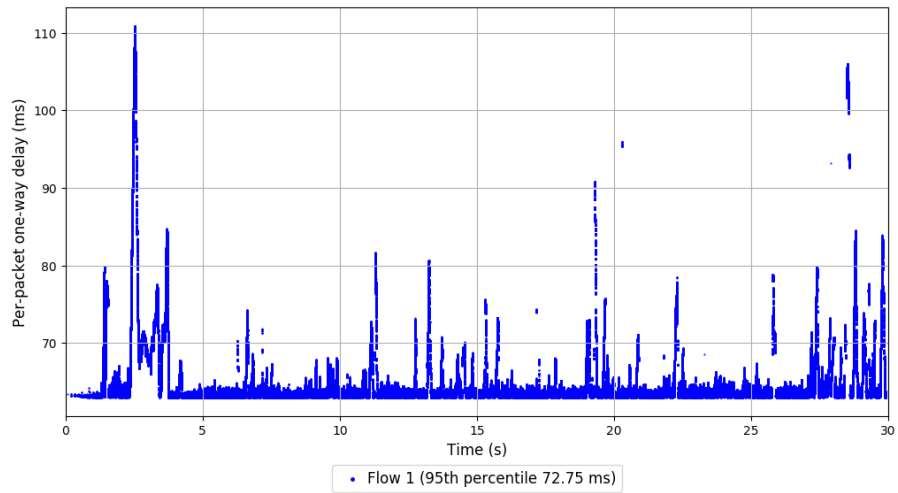
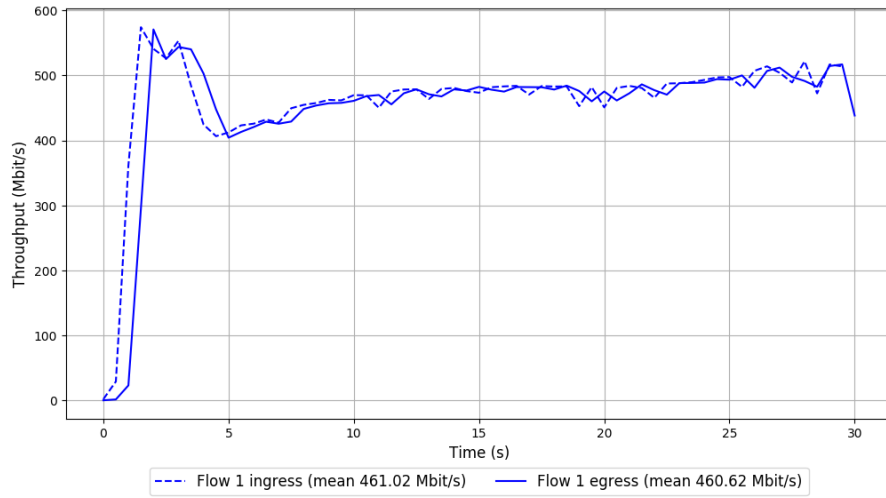
-- Total of 1 flow:

Average throughput: 460.62 Mbit/s  
95th percentile per-packet one-way delay: 72.753 ms  
Loss rate: 0.50%

-- Flow 1:

Average throughput: 460.62 Mbit/s  
95th percentile per-packet one-way delay: 72.753 ms  
Loss rate: 0.50%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-06-27 11:51:01  
End at: 2019-06-27 11:51:31  
Local clock offset: -0.094 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-06-27 14:18:45

# Datalink statistics

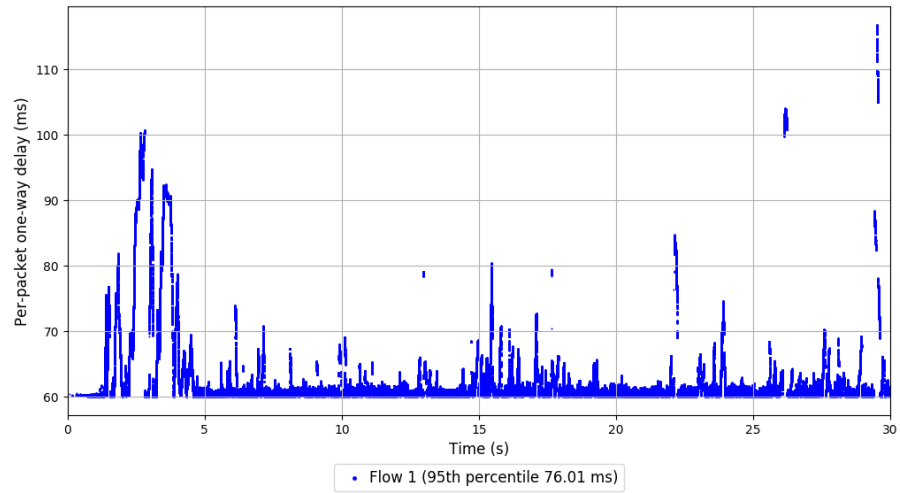
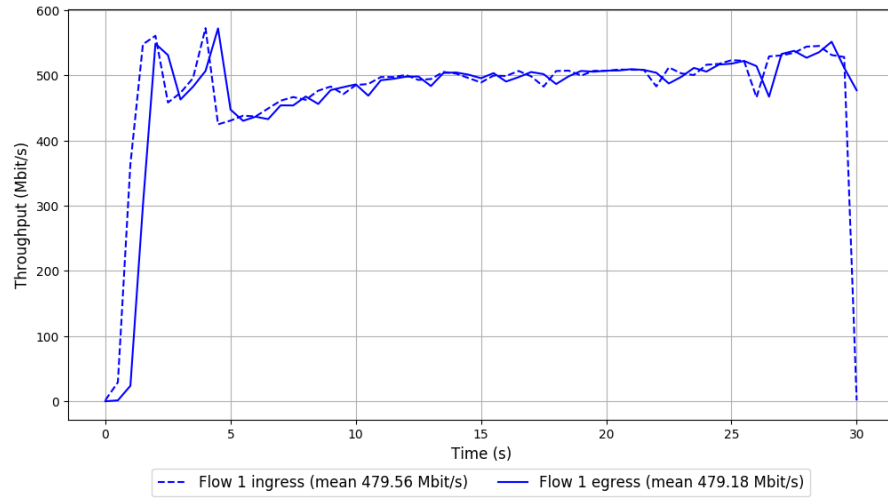
-- Total of 1 flow:

Average throughput: 479.18 Mbit/s  
95th percentile per-packet one-way delay: 76.011 ms  
Loss rate: 0.48%

-- Flow 1:

Average throughput: 479.18 Mbit/s  
95th percentile per-packet one-way delay: 76.011 ms  
Loss rate: 0.48%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-06-27 12:22:22

End at: 2019-06-27 12:22:52

Local clock offset: -0.049 ms

Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2019-06-27 14:18:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 338.24 Mbit/s

95th percentile per-packet one-way delay: 72.182 ms

Loss rate: 0.55%

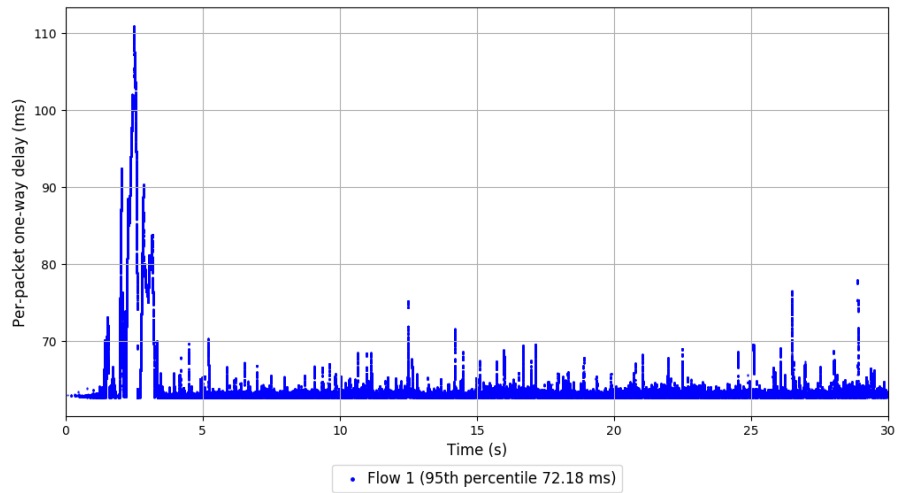
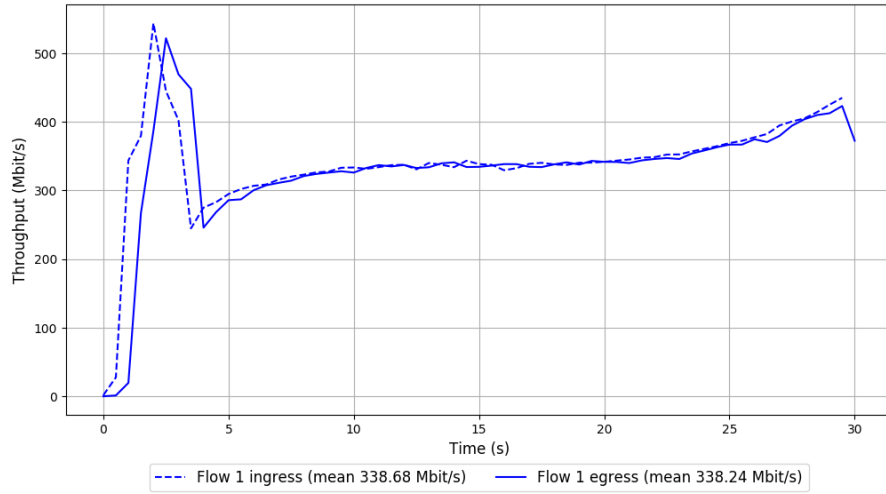
-- Flow 1:

Average throughput: 338.24 Mbit/s

95th percentile per-packet one-way delay: 72.182 ms

Loss rate: 0.55%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-06-27 12:53:50

End at: 2019-06-27 12:54:20

Local clock offset: -0.013 ms

Remote clock offset: 0.227 ms

# Below is generated by plot.py at 2019-06-27 14:18:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 481.86 Mbit/s

95th percentile per-packet one-way delay: 76.689 ms

Loss rate: 0.48%

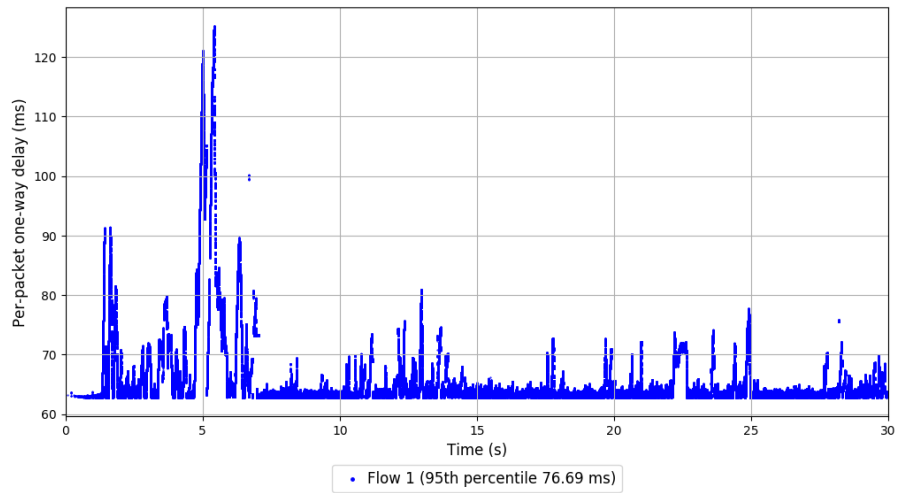
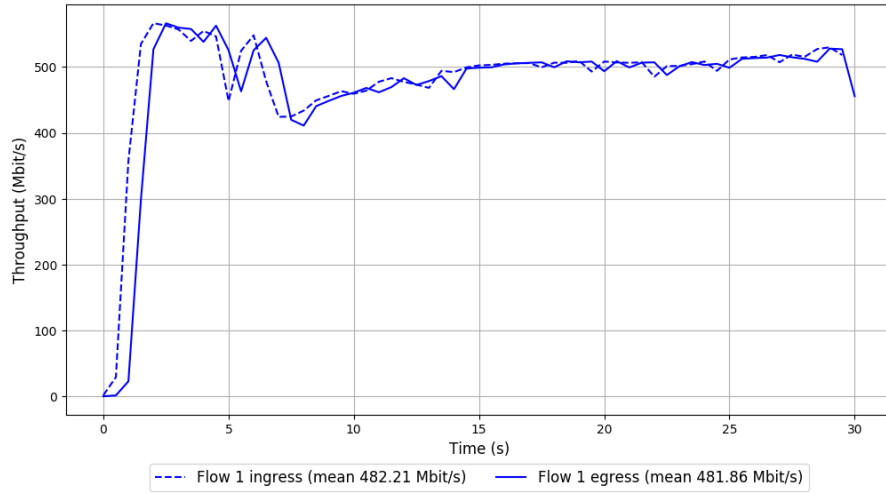
-- Flow 1:

Average throughput: 481.86 Mbit/s

95th percentile per-packet one-way delay: 76.689 ms

Loss rate: 0.48%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-06-27 13:24:56  
End at: 2019-06-27 13:25:26  
Local clock offset: -0.004 ms  
Remote clock offset: -0.242 ms

# Below is generated by plot.py at 2019-06-27 14:19:04

# Datalink statistics

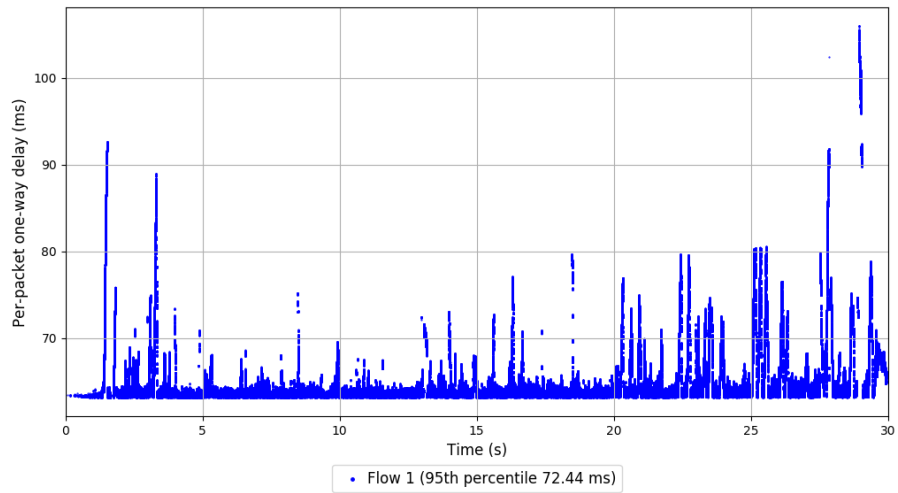
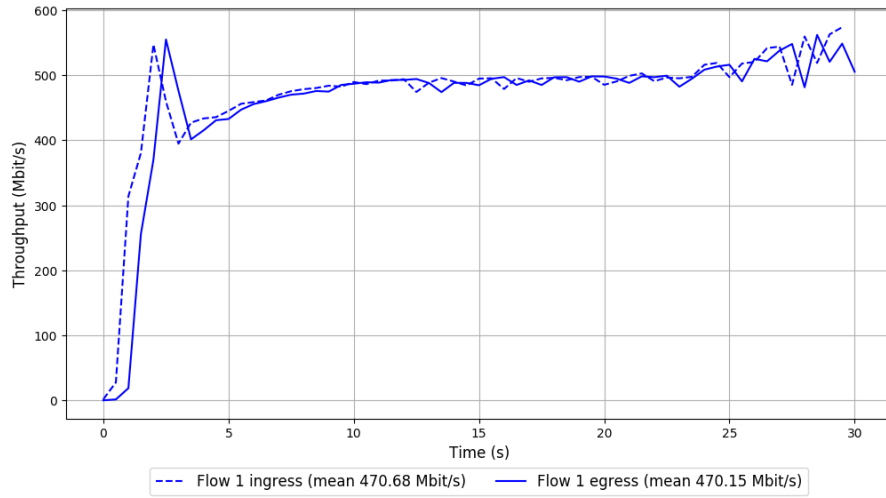
-- Total of 1 flow:

Average throughput: 470.15 Mbit/s  
95th percentile per-packet one-way delay: 72.436 ms  
Loss rate: 0.53%

-- Flow 1:

Average throughput: 470.15 Mbit/s  
95th percentile per-packet one-way delay: 72.436 ms  
Loss rate: 0.53%

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



Run 1: Statistics of FillP

Start at: 2019-06-27 11:17:53

End at: 2019-06-27 11:18:23

Local clock offset: 0.027 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2019-06-27 14:28:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 861.76 Mbit/s

95th percentile per-packet one-way delay: 86.388 ms

Loss rate: 0.64%

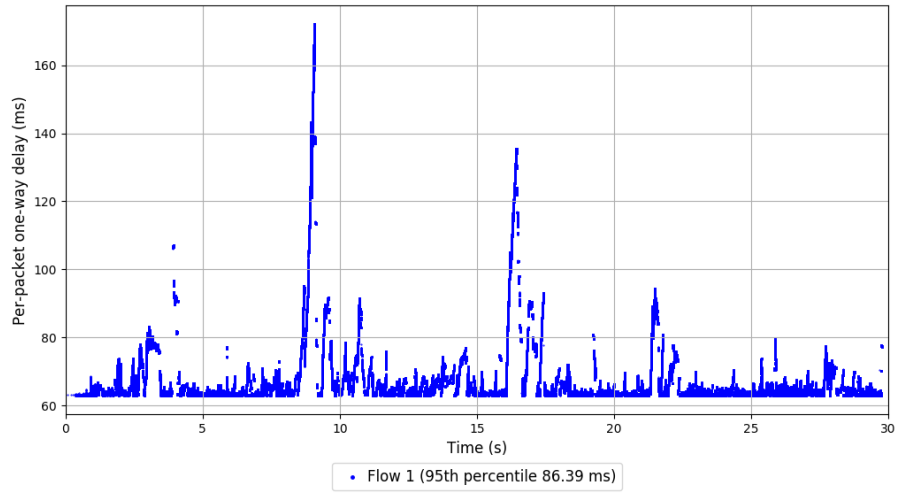
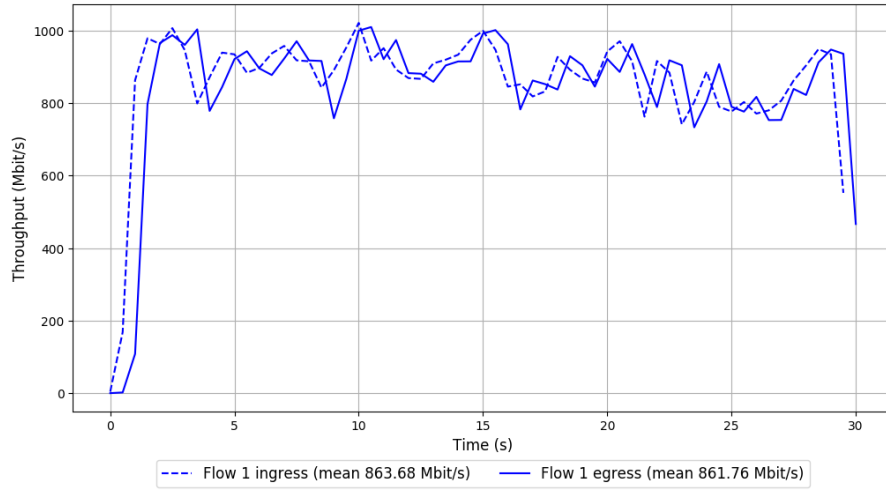
-- Flow 1:

Average throughput: 861.76 Mbit/s

95th percentile per-packet one-way delay: 86.388 ms

Loss rate: 0.64%

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





Run 2: Statistics of FillP

Start at: 2019-06-27 11:49:19  
End at: 2019-06-27 11:49:49  
Local clock offset: -0.083 ms  
Remote clock offset: -0.726 ms

# Below is generated by plot.py at 2019-06-27 14:35:08

# Datalink statistics

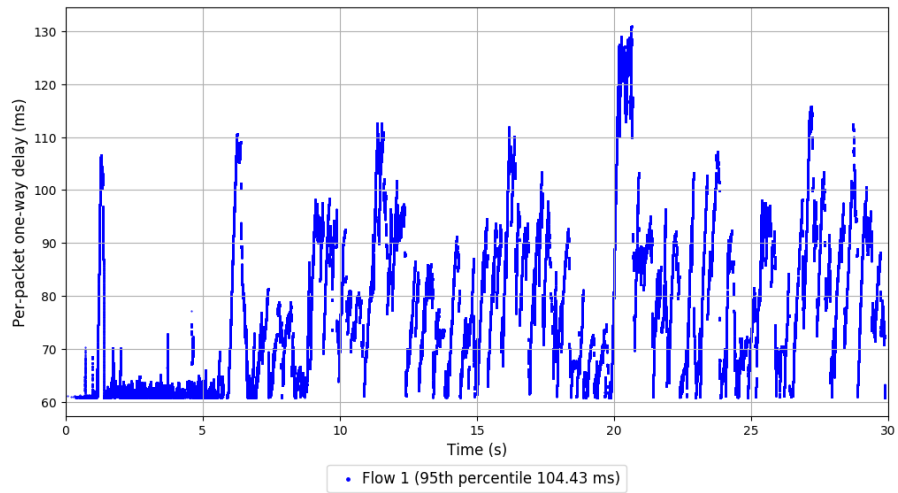
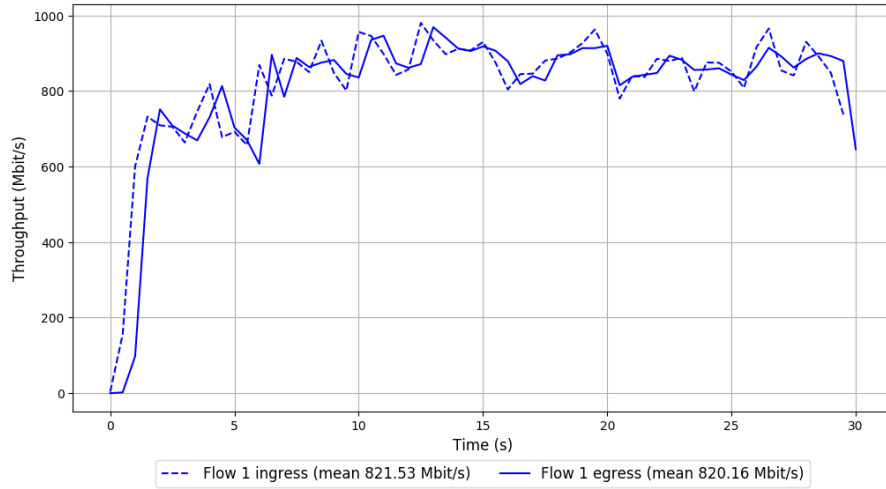
-- Total of 1 flow:

Average throughput: 820.16 Mbit/s  
95th percentile per-packet one-way delay: 104.429 ms  
Loss rate: 0.57%

-- Flow 1:

Average throughput: 820.16 Mbit/s  
95th percentile per-packet one-way delay: 104.429 ms  
Loss rate: 0.57%

## Run 2: Report of FillP — Data Link

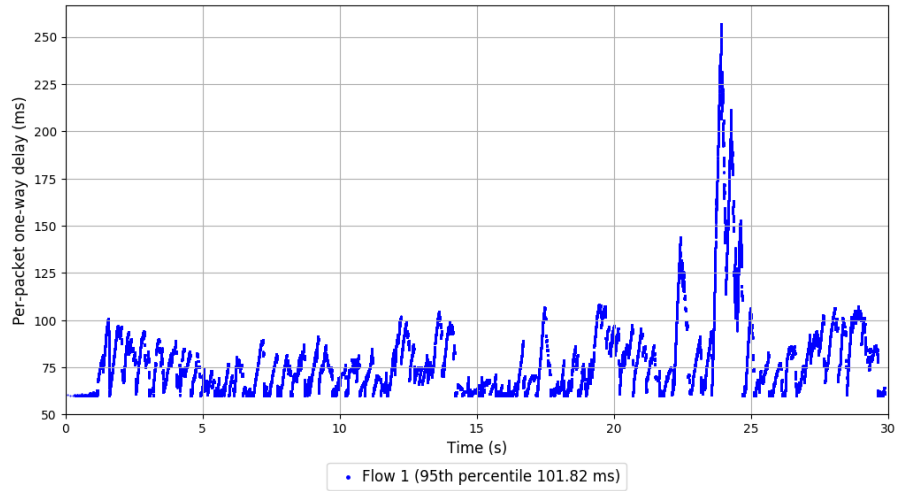
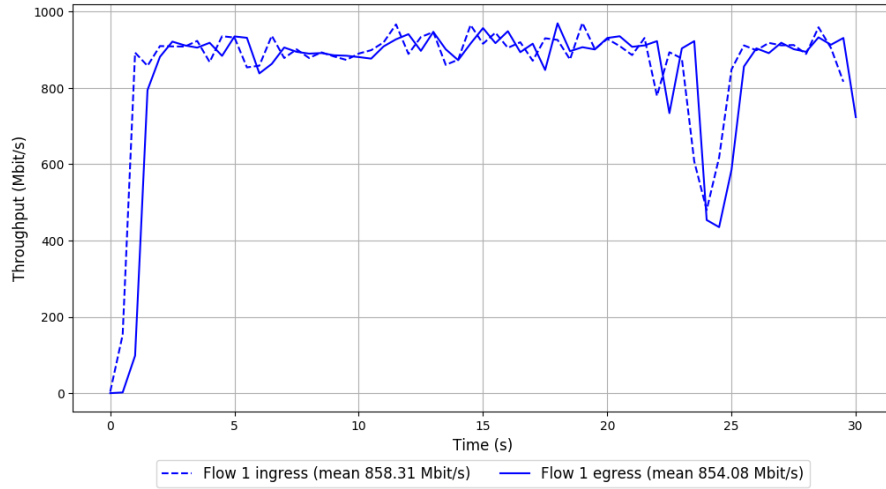


Run 3: Statistics of FillP

Start at: 2019-06-27 12:20:39  
End at: 2019-06-27 12:21:09  
Local clock offset: -0.042 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-06-27 14:35:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 854.08 Mbit/s  
95th percentile per-packet one-way delay: 101.822 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 854.08 Mbit/s  
95th percentile per-packet one-way delay: 101.822 ms  
Loss rate: 0.90%

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



Run 4: Statistics of FillP

Start at: 2019-06-27 12:52:08

End at: 2019-06-27 12:52:38

Local clock offset: -0.045 ms

Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2019-06-27 14:36:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 807.39 Mbit/s

95th percentile per-packet one-way delay: 95.742 ms

Loss rate: 0.57%

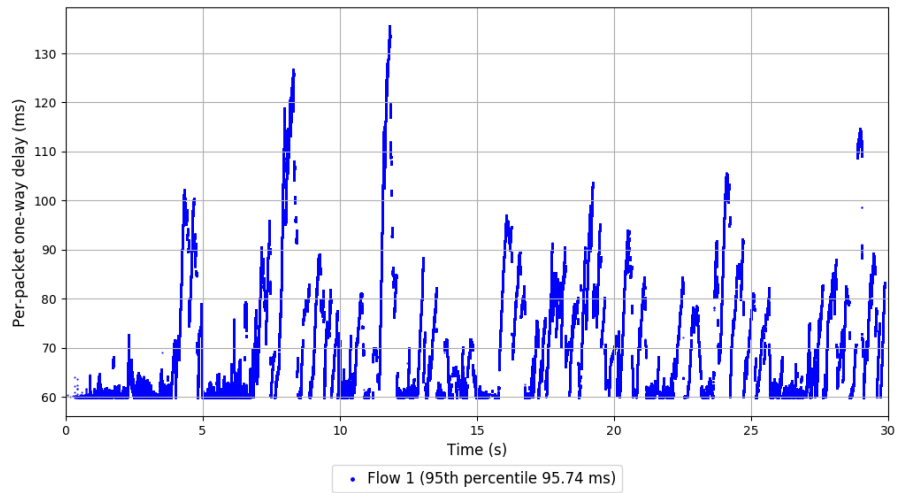
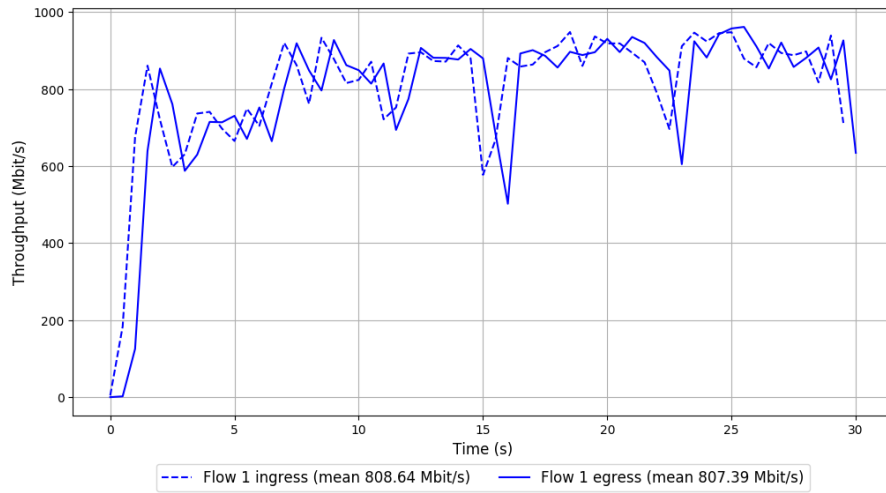
-- Flow 1:

Average throughput: 807.39 Mbit/s

95th percentile per-packet one-way delay: 95.742 ms

Loss rate: 0.57%

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



Run 5: Statistics of FillP

Start at: 2019-06-27 13:23:13

End at: 2019-06-27 13:23:43

Local clock offset: -0.03 ms

Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2019-06-27 14:37:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 841.93 Mbit/s

95th percentile per-packet one-way delay: 111.215 ms

Loss rate: 0.88%

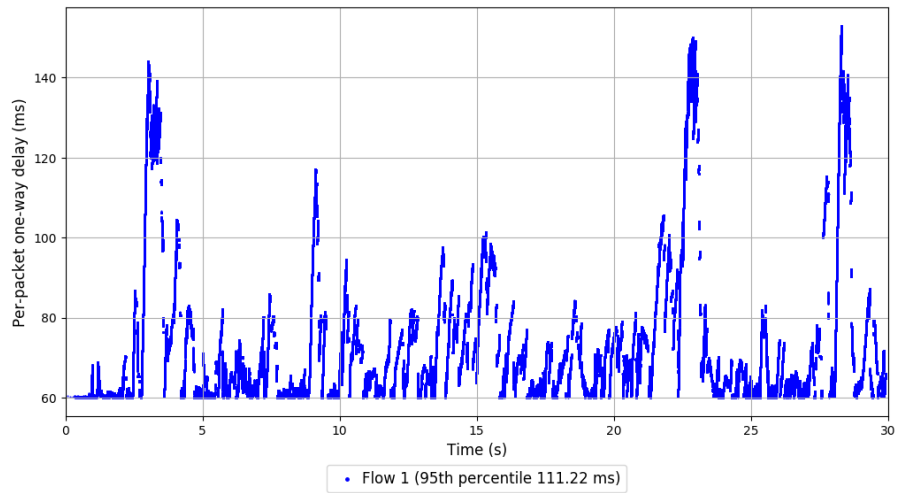
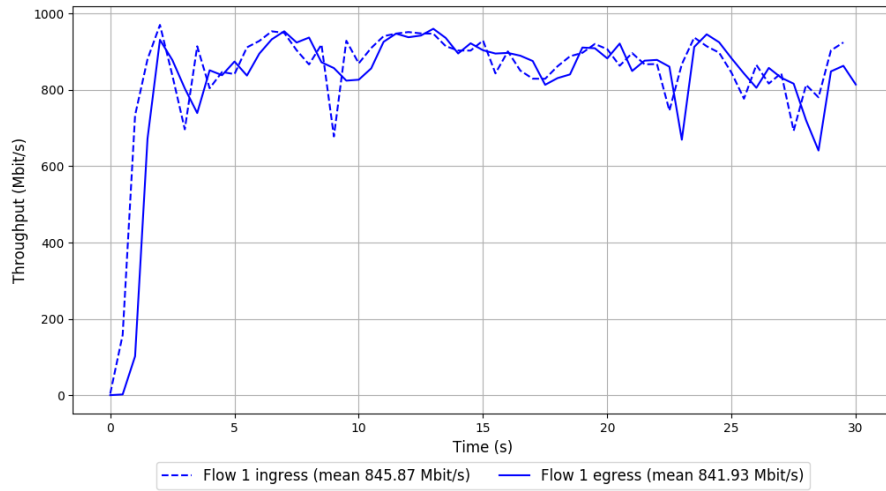
-- Flow 1:

Average throughput: 841.93 Mbit/s

95th percentile per-packet one-way delay: 111.215 ms

Loss rate: 0.88%

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





Run 1: Statistics of FillP-Sheep

Start at: 2019-06-27 11:32:26

End at: 2019-06-27 11:32:56

Local clock offset: 0.068 ms

Remote clock offset: -0.829 ms

# Below is generated by plot.py at 2019-06-27 14:37:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 809.71 Mbit/s

95th percentile per-packet one-way delay: 97.615 ms

Loss rate: 0.50%

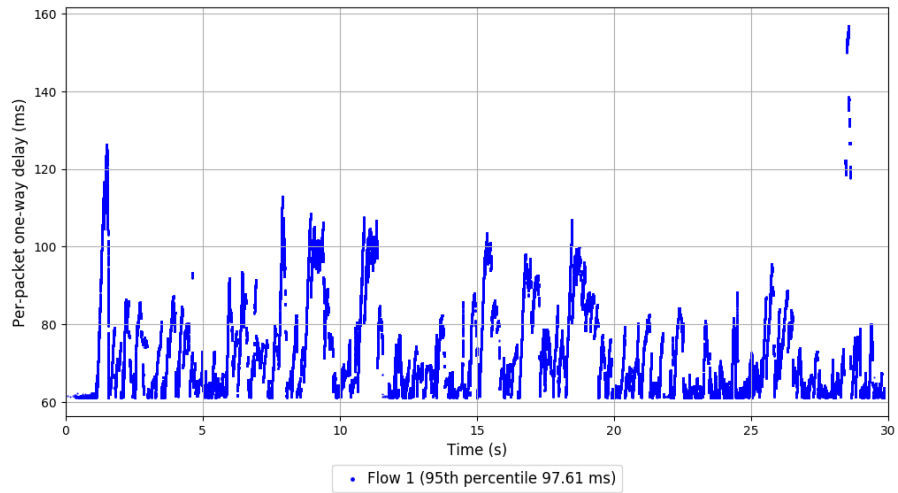
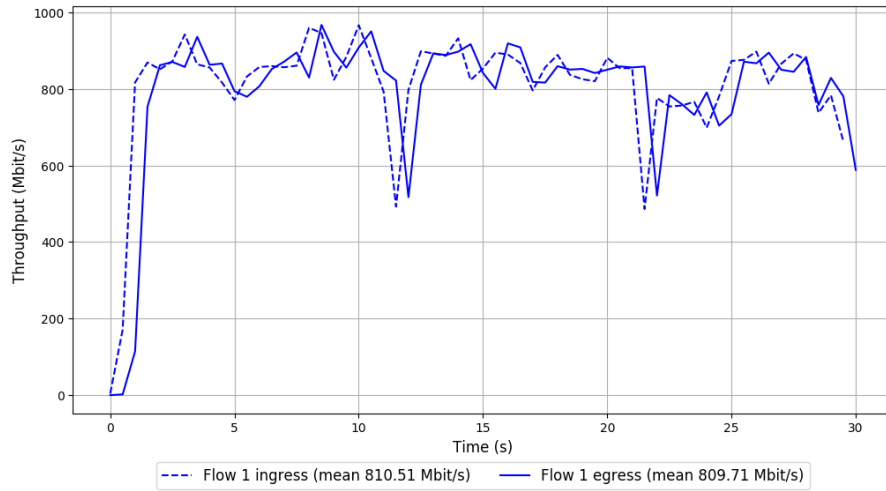
-- Flow 1:

Average throughput: 809.71 Mbit/s

95th percentile per-packet one-way delay: 97.615 ms

Loss rate: 0.50%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-06-27 12:03:58

End at: 2019-06-27 12:04:28

Local clock offset: -0.12 ms

Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2019-06-27 14:37:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 832.07 Mbit/s

95th percentile per-packet one-way delay: 103.890 ms

Loss rate: 0.58%

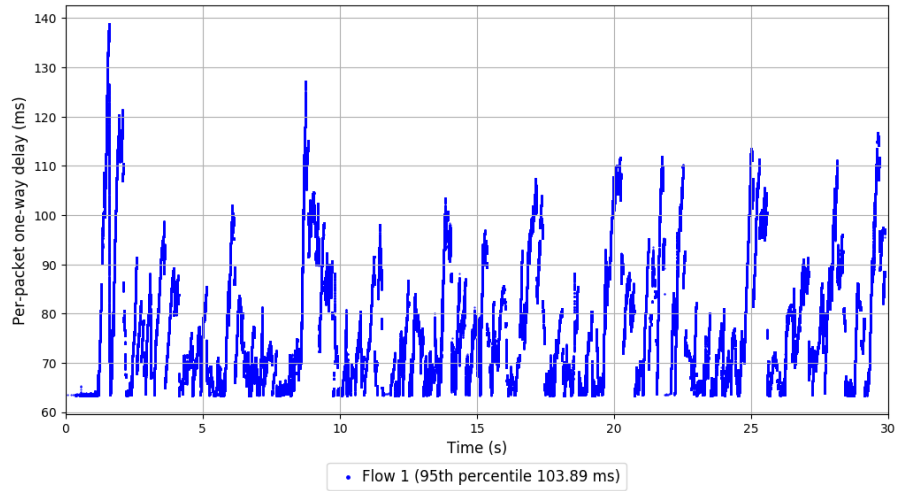
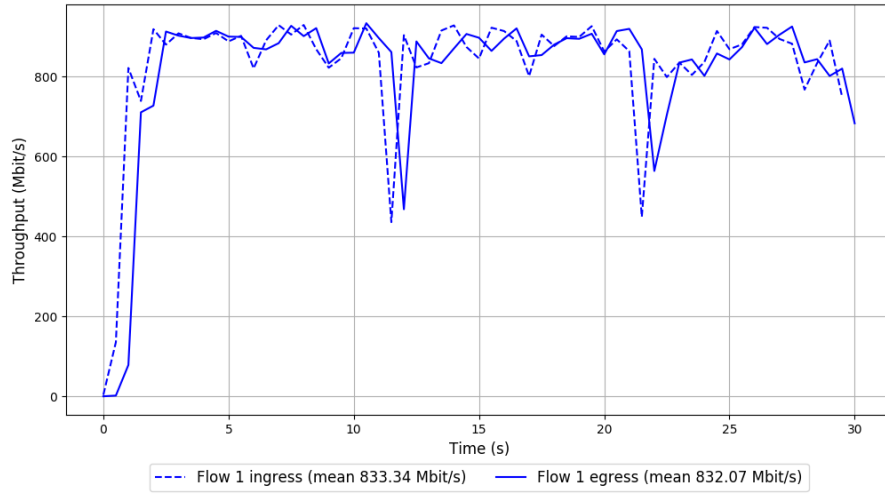
-- Flow 1:

Average throughput: 832.07 Mbit/s

95th percentile per-packet one-way delay: 103.890 ms

Loss rate: 0.58%

Run 2: Report of FillP-Sheep — Data Link

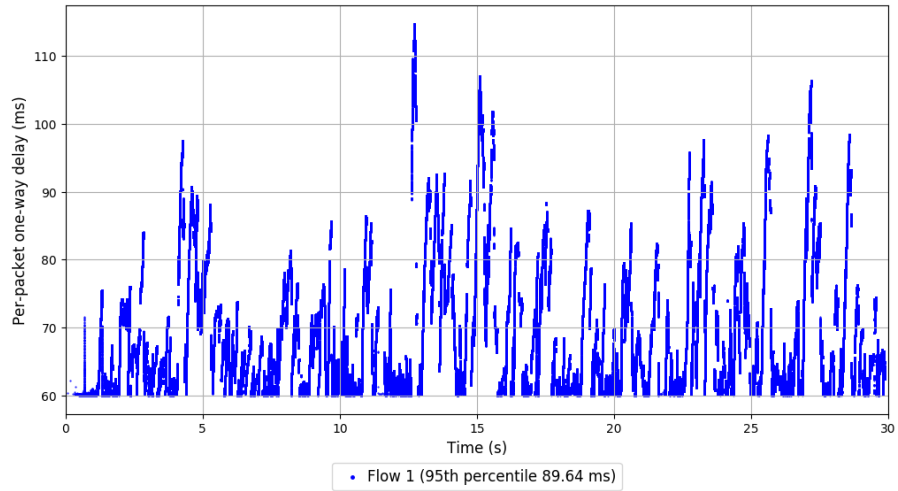
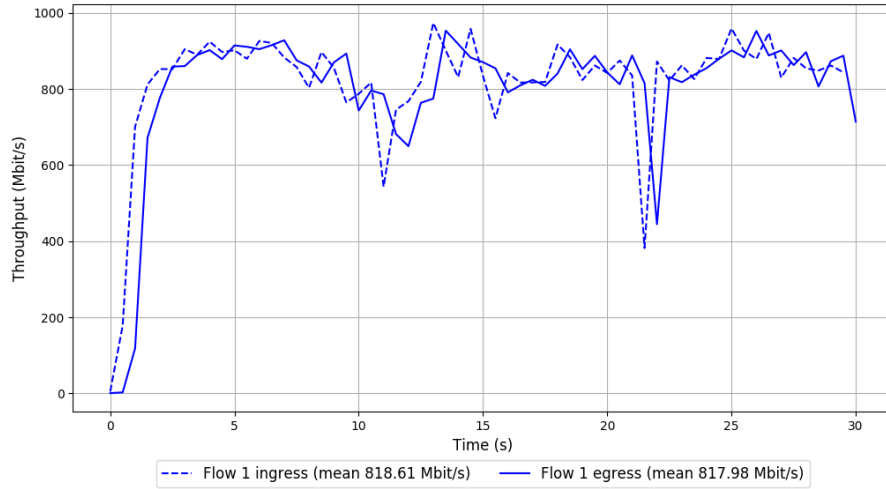


Run 3: Statistics of FillP-Sheep

Start at: 2019-06-27 12:35:14  
End at: 2019-06-27 12:35:44  
Local clock offset: -0.018 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-06-27 14:37:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 817.98 Mbit/s  
95th percentile per-packet one-way delay: 89.639 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 817.98 Mbit/s  
95th percentile per-packet one-way delay: 89.639 ms  
Loss rate: 0.49%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-06-27 13:06:25

End at: 2019-06-27 13:06:55

Local clock offset: -0.021 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-06-27 14:48:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 805.57 Mbit/s

95th percentile per-packet one-way delay: 107.273 ms

Loss rate: 0.70%

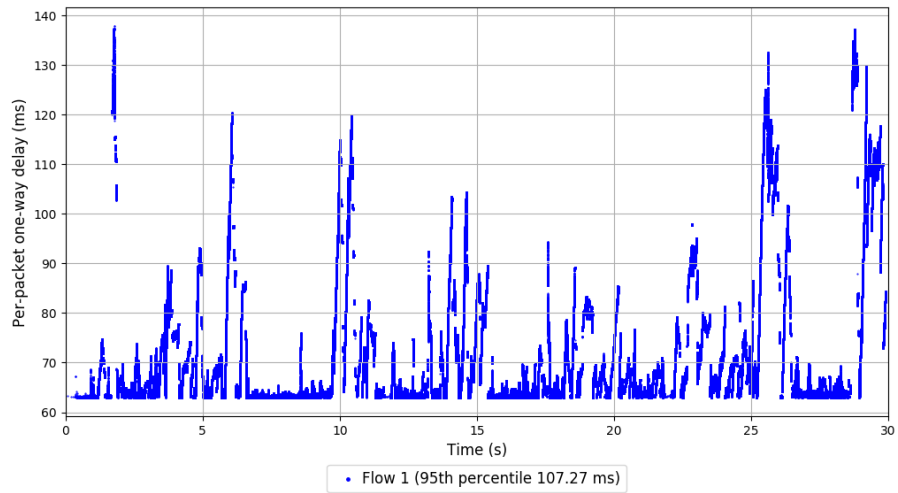
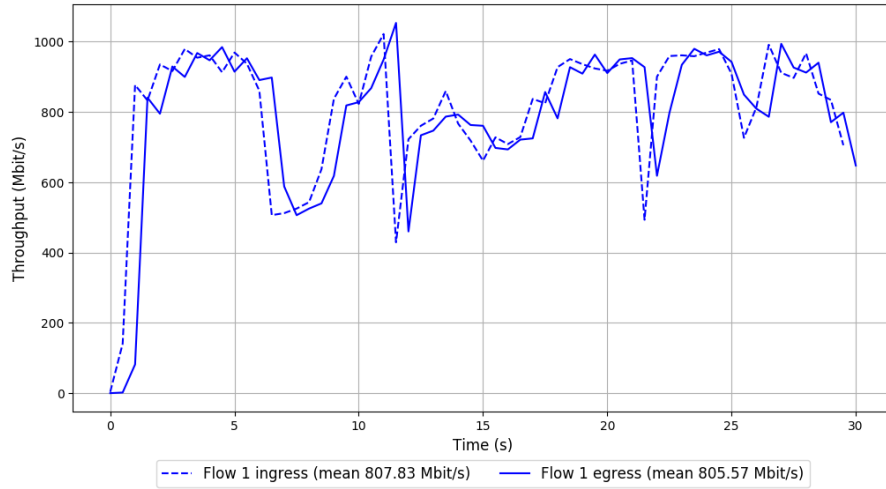
-- Flow 1:

Average throughput: 805.57 Mbit/s

95th percentile per-packet one-way delay: 107.273 ms

Loss rate: 0.70%

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



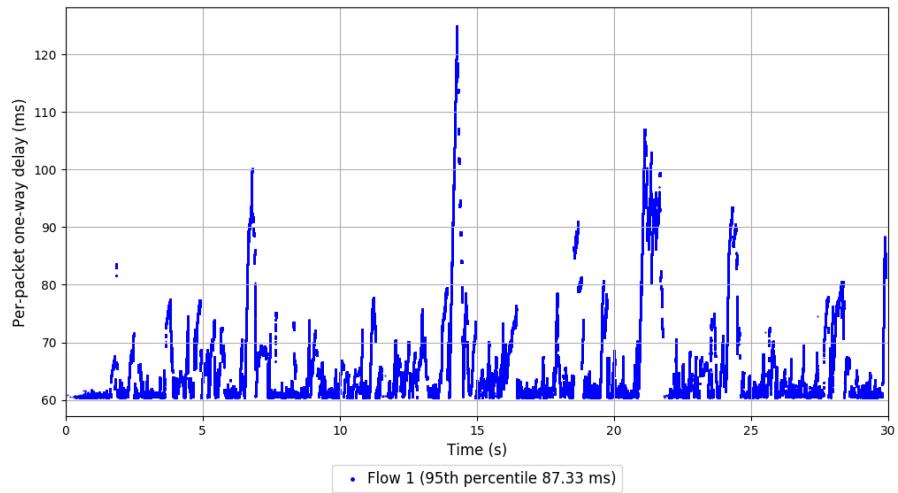
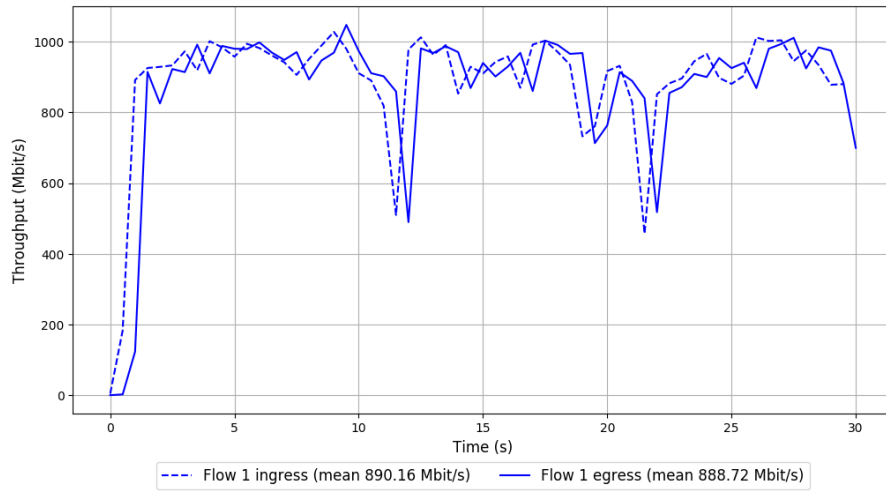


Run 5: Statistics of FillP-Sheep

Start at: 2019-06-27 13:37:55  
End at: 2019-06-27 13:38:25  
Local clock offset: -0.003 ms  
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2019-06-27 14:54:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 888.72 Mbit/s  
95th percentile per-packet one-way delay: 87.332 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 888.72 Mbit/s  
95th percentile per-packet one-way delay: 87.332 ms  
Loss rate: 0.58%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-06-27 11:23:48

End at: 2019-06-27 11:24:18

Local clock offset: 0.049 ms

Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2019-06-27 14:54:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.41 Mbit/s

95th percentile per-packet one-way delay: 64.343 ms

Loss rate: 0.46%

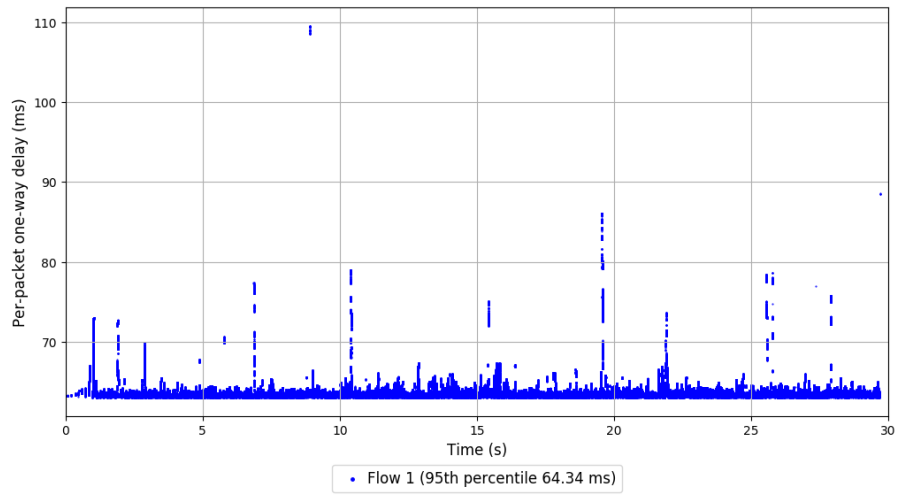
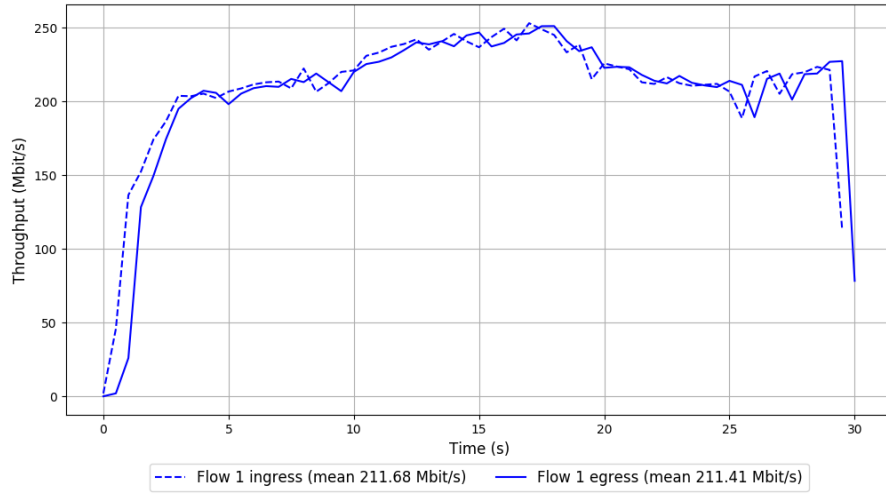
-- Flow 1:

Average throughput: 211.41 Mbit/s

95th percentile per-packet one-way delay: 64.343 ms

Loss rate: 0.46%

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



Run 2: Statistics of Indigo

Start at: 2019-06-27 11:55:15  
End at: 2019-06-27 11:55:45  
Local clock offset: -0.105 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-06-27 14:54:18

# Datalink statistics

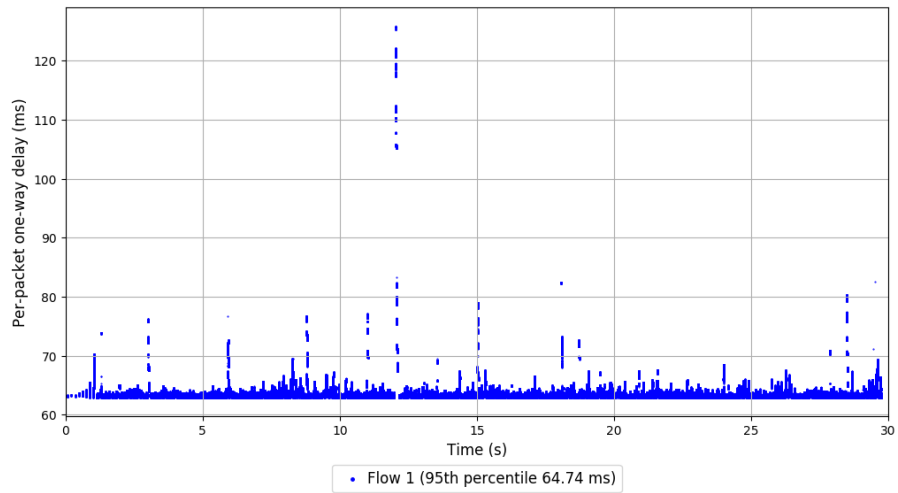
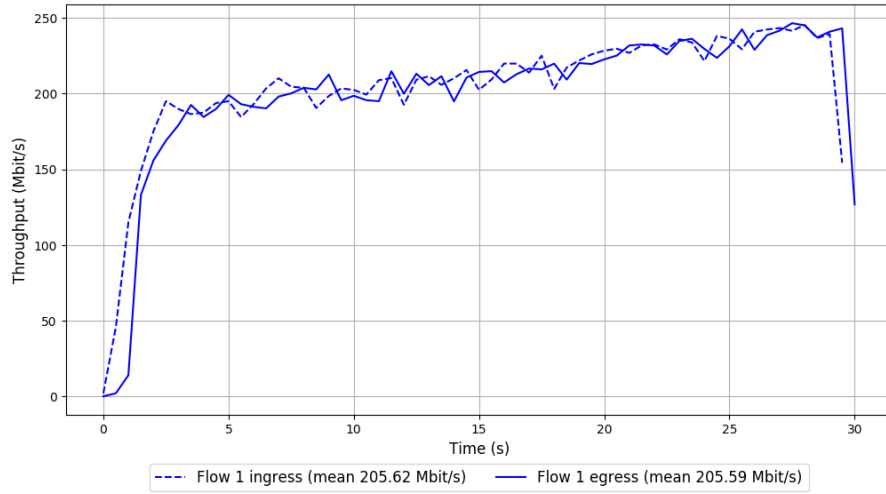
-- Total of 1 flow:

Average throughput: 205.59 Mbit/s  
95th percentile per-packet one-way delay: 64.742 ms  
Loss rate: 0.44%

-- Flow 1:

Average throughput: 205.59 Mbit/s  
95th percentile per-packet one-way delay: 64.742 ms  
Loss rate: 0.44%

## Run 2: Report of Indigo — Data Link

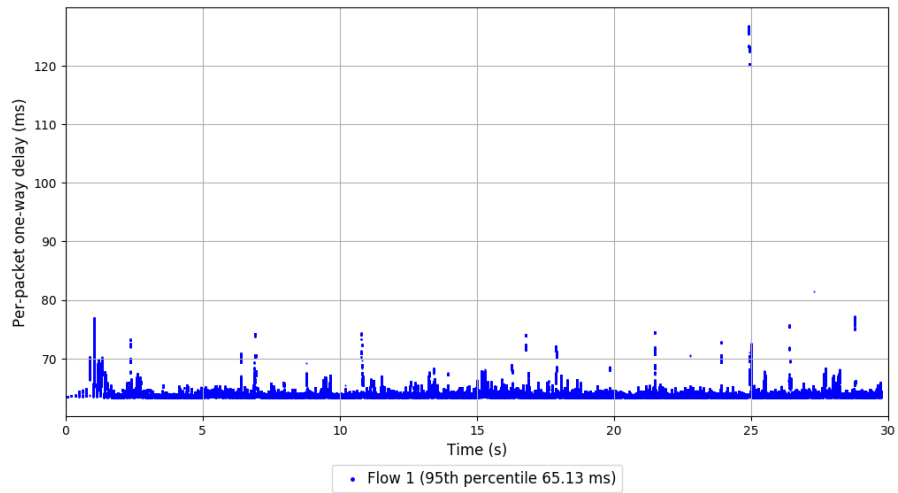
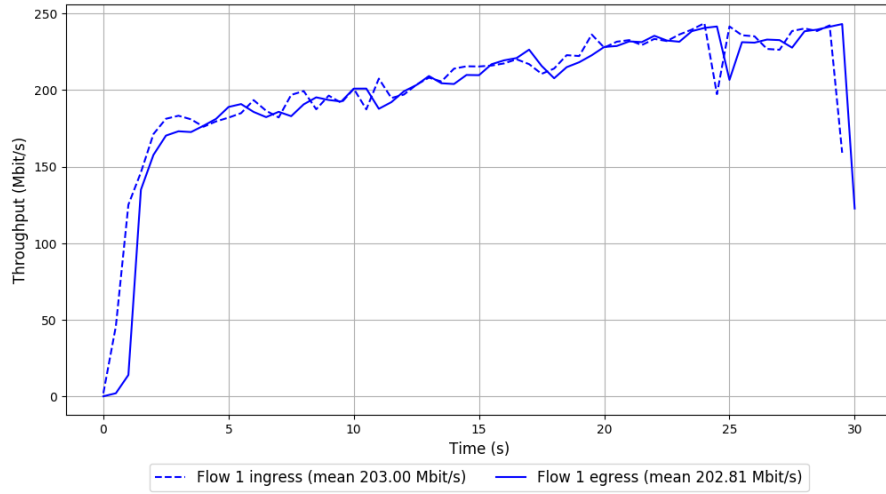


Run 3: Statistics of Indigo

Start at: 2019-06-27 12:26:32  
End at: 2019-06-27 12:27:02  
Local clock offset: -0.009 ms  
Remote clock offset: -0.318 ms

# Below is generated by plot.py at 2019-06-27 14:54:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 202.81 Mbit/s  
95th percentile per-packet one-way delay: 65.131 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 202.81 Mbit/s  
95th percentile per-packet one-way delay: 65.131 ms  
Loss rate: 0.52%

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





Run 4: Statistics of Indigo

Start at: 2019-06-27 12:58:06

End at: 2019-06-27 12:58:36

Local clock offset: 0.005 ms

Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-06-27 14:54:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.19 Mbit/s

95th percentile per-packet one-way delay: 62.980 ms

Loss rate: 0.43%

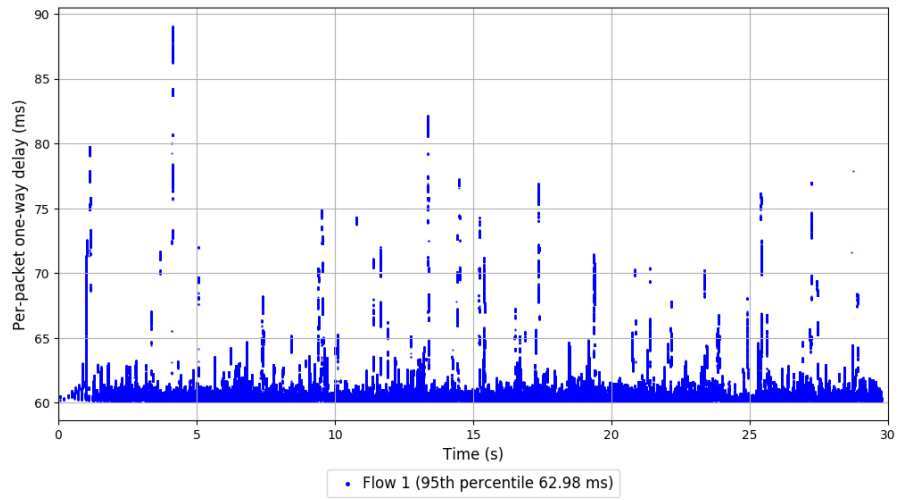
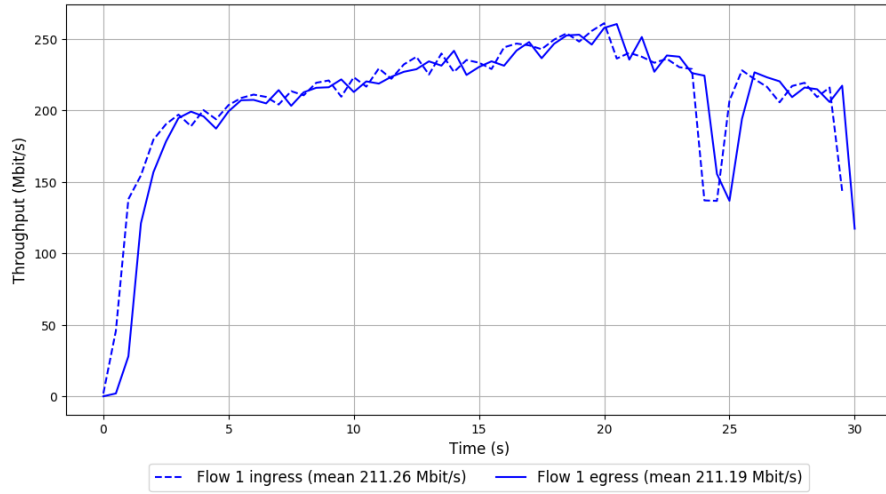
-- Flow 1:

Average throughput: 211.19 Mbit/s

95th percentile per-packet one-way delay: 62.980 ms

Loss rate: 0.43%

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

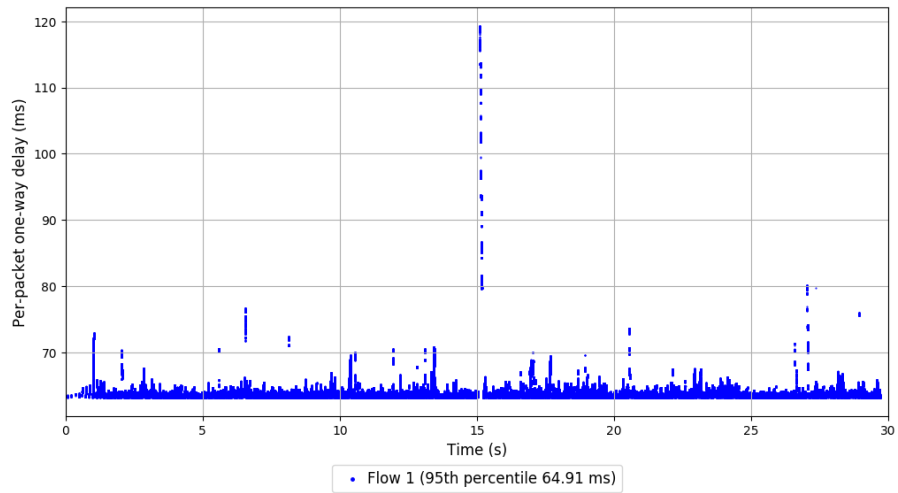
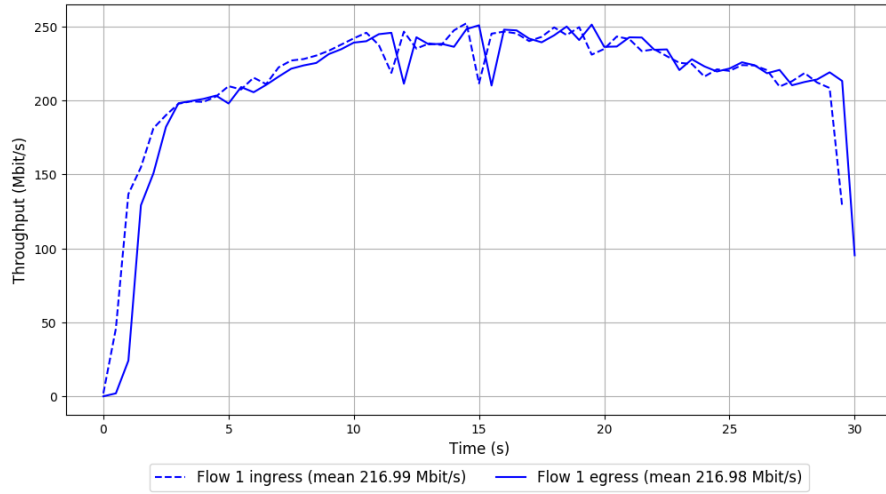


Run 5: Statistics of Indigo

Start at: 2019-06-27 13:29:11  
End at: 2019-06-27 13:29:41  
Local clock offset: -0.027 ms  
Remote clock offset: -0.236 ms

```
# Below is generated by plot.py at 2019-06-27 14:54:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.98 Mbit/s
95th percentile per-packet one-way delay: 64.910 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 216.98 Mbit/s
95th percentile per-packet one-way delay: 64.910 ms
Loss rate: 0.43%
```

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



Run 1: Statistics of Indigo-MusesC3

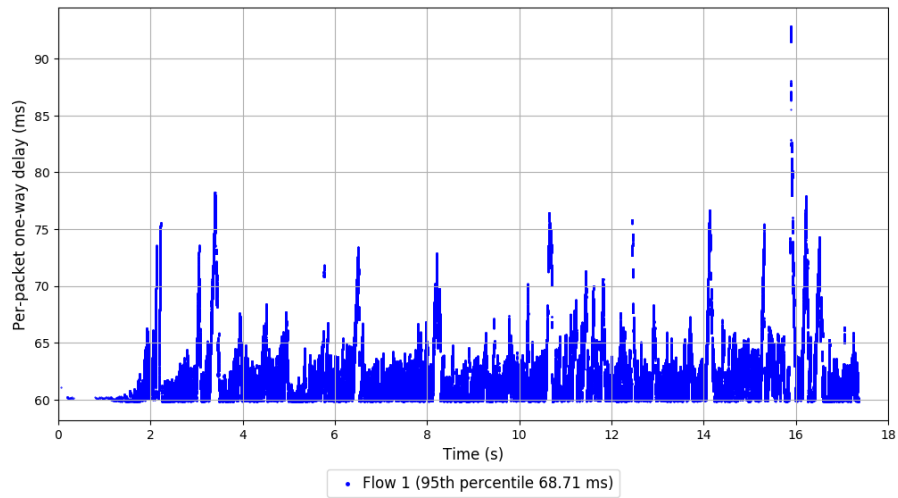
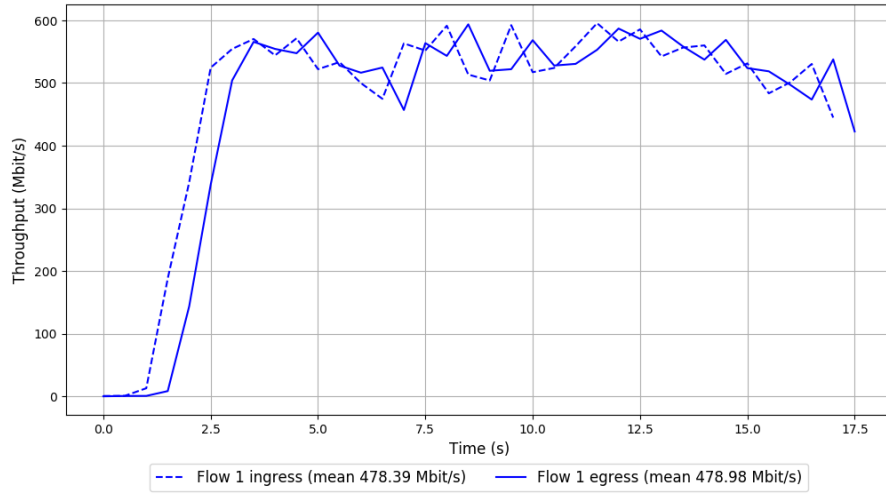
Start at: 2019-06-27 11:14:57

End at: 2019-06-27 11:15:27

Local clock offset: -0.029 ms

Remote clock offset: -0.074 ms

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-06-27 11:46:11

End at: 2019-06-27 11:46:41

Local clock offset: -0.082 ms

Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2019-06-27 14:54:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 532.60 Mbit/s

95th percentile per-packet one-way delay: 68.498 ms

Loss rate: 0.47%

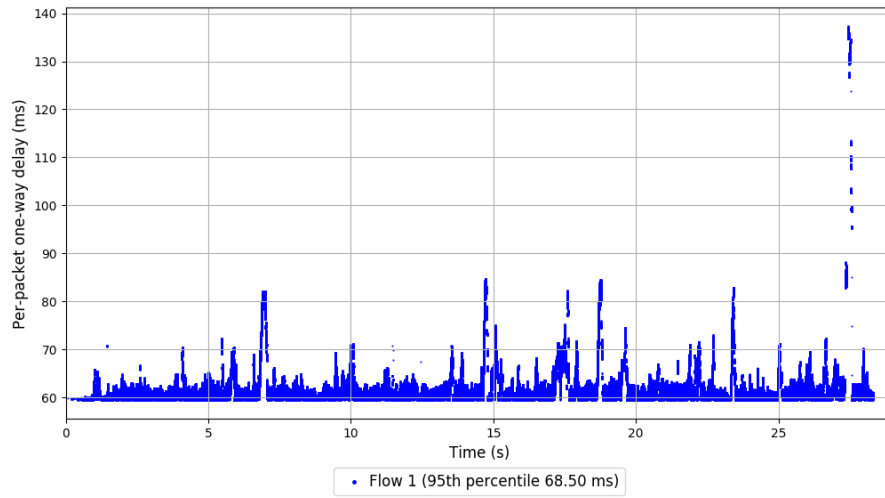
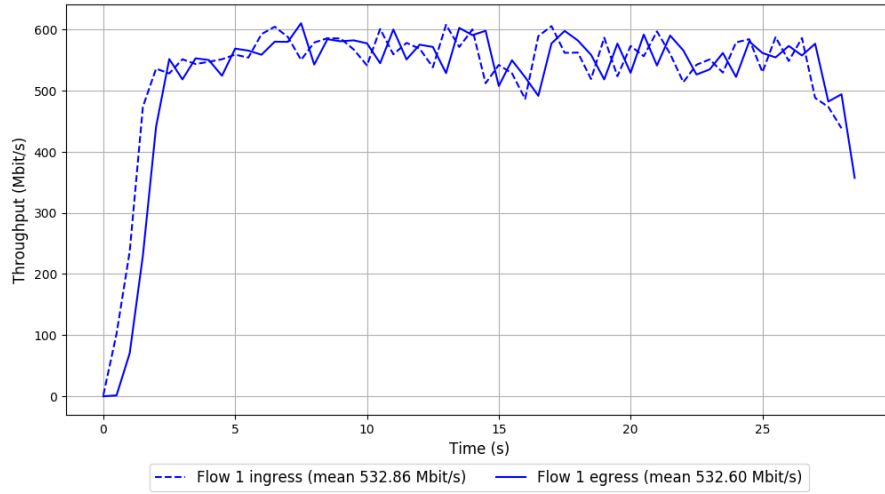
-- Flow 1:

Average throughput: 532.60 Mbit/s

95th percentile per-packet one-way delay: 68.498 ms

Loss rate: 0.47%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-06-27 12:17:32

End at: 2019-06-27 12:18:02

Local clock offset: -0.074 ms

Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2019-06-27 14:54:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 533.39 Mbit/s

95th percentile per-packet one-way delay: 73.687 ms

Loss rate: 0.49%

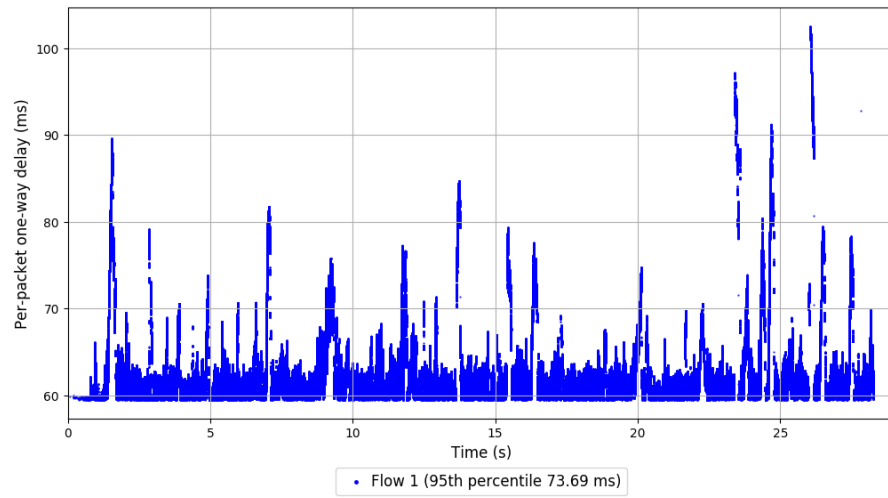
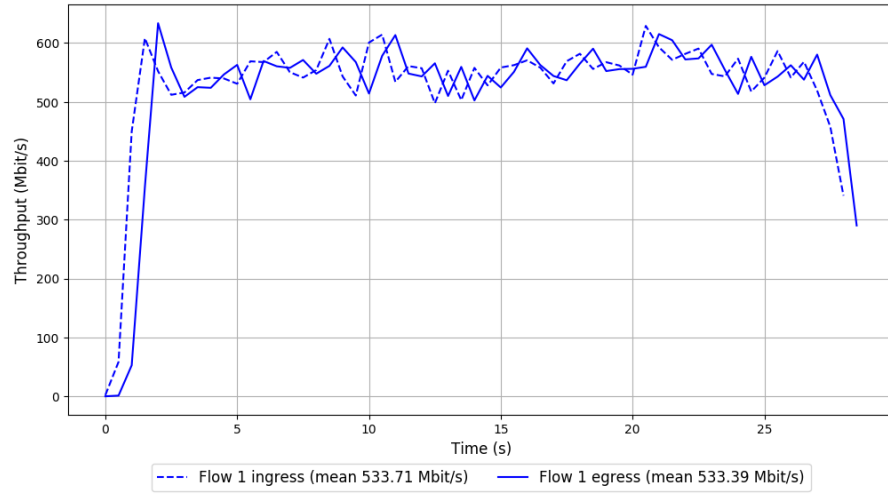
-- Flow 1:

Average throughput: 533.39 Mbit/s

95th percentile per-packet one-way delay: 73.687 ms

Loss rate: 0.49%

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



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-06-27 12:49:01

End at: 2019-06-27 12:49:31

Local clock offset: -0.03 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-06-27 14:54:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 537.64 Mbit/s

95th percentile per-packet one-way delay: 74.664 ms

Loss rate: 0.49%

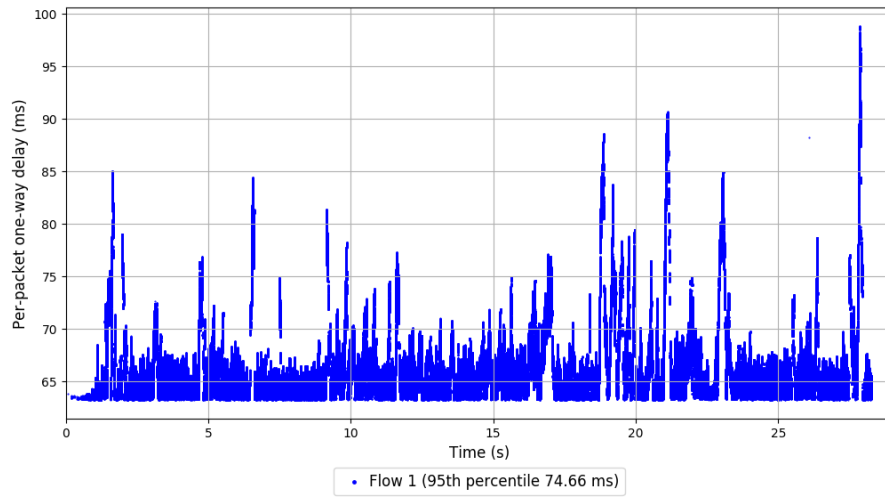
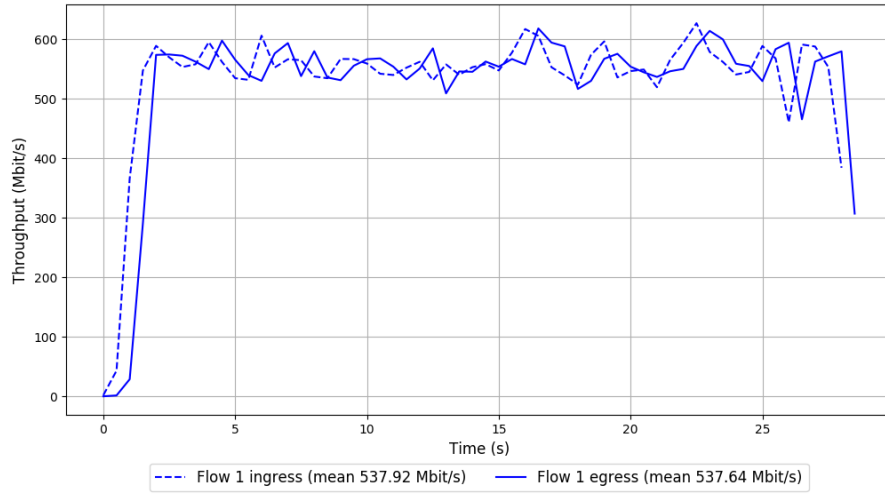
-- Flow 1:

Average throughput: 537.64 Mbit/s

95th percentile per-packet one-way delay: 74.664 ms

Loss rate: 0.49%

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



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-06-27 13:20:05

End at: 2019-06-27 13:20:35

Local clock offset: -0.032 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2019-06-27 14:54:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 536.07 Mbit/s

95th percentile per-packet one-way delay: 77.412 ms

Loss rate: 0.51%

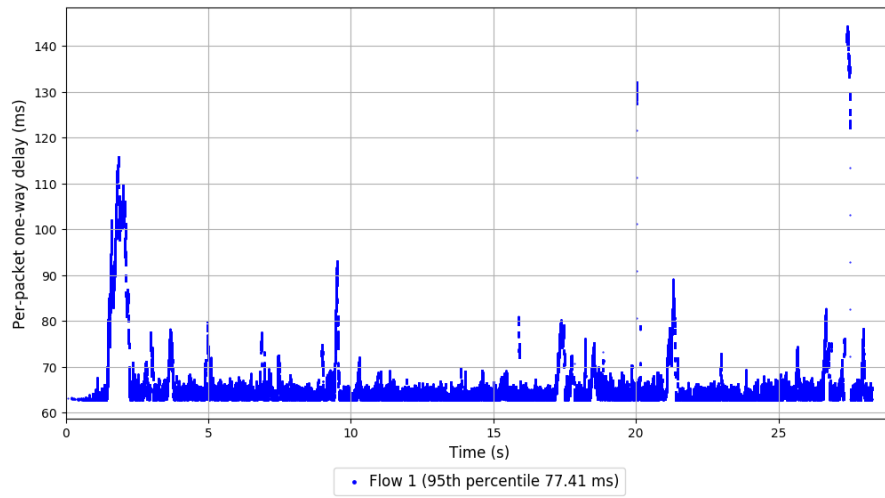
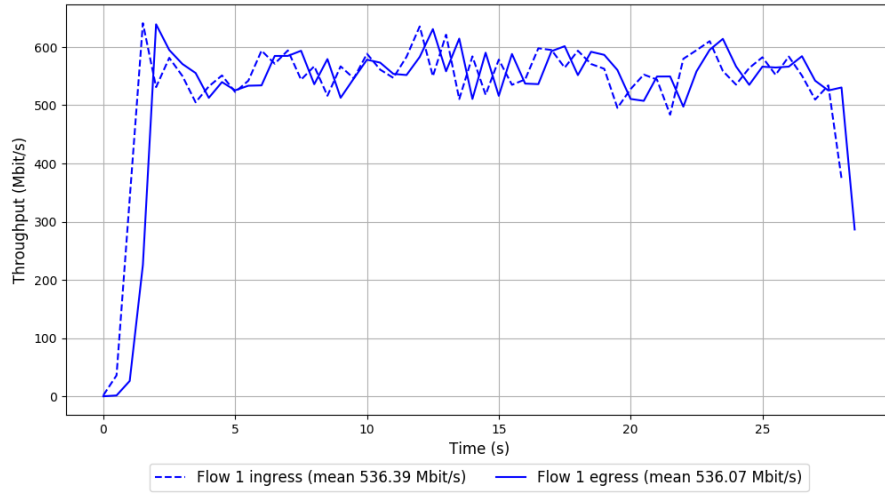
-- Flow 1:

Average throughput: 536.07 Mbit/s

95th percentile per-packet one-way delay: 77.412 ms

Loss rate: 0.51%

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

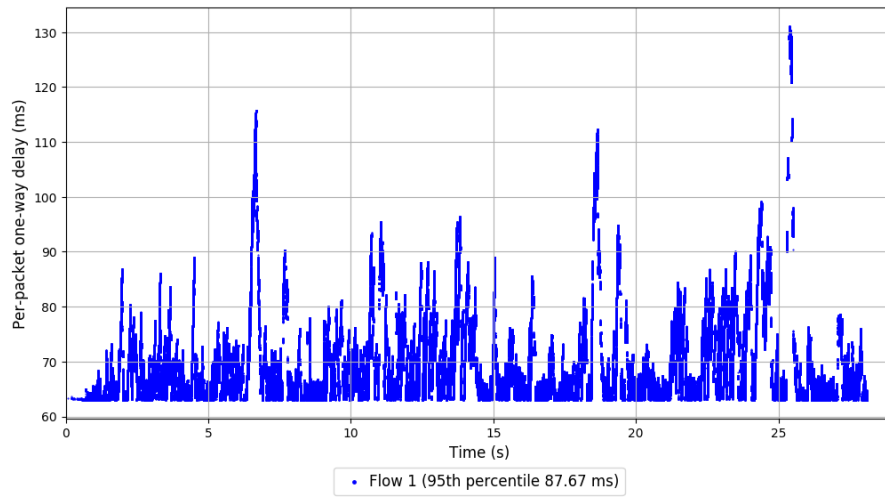
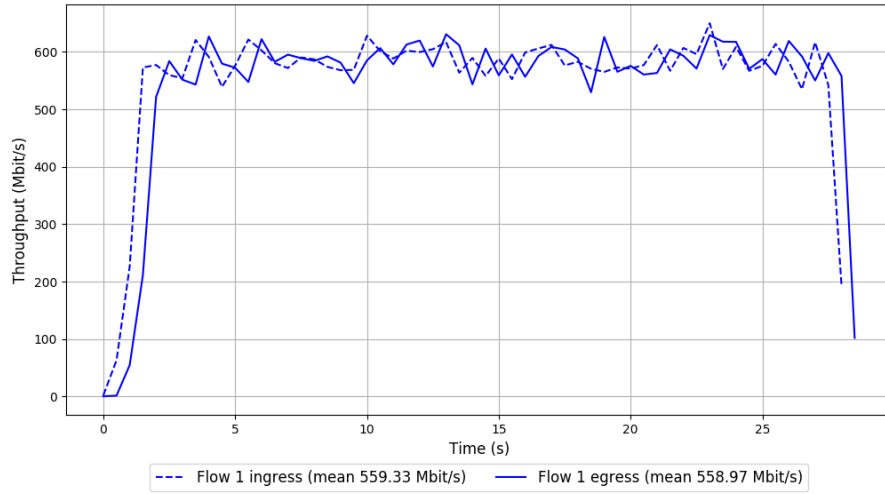


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-06-27 11:39:25  
End at: 2019-06-27 11:39:55  
Local clock offset: 0.025 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-06-27 14:54:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 558.97 Mbit/s  
95th percentile per-packet one-way delay: 87.670 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 558.97 Mbit/s  
95th percentile per-packet one-way delay: 87.670 ms  
Loss rate: 0.50%

### Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-06-27 12:10:57

End at: 2019-06-27 12:11:27

Local clock offset: -0.142 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-06-27 14:54:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 563.03 Mbit/s

95th percentile per-packet one-way delay: 85.854 ms

Loss rate: 0.52%

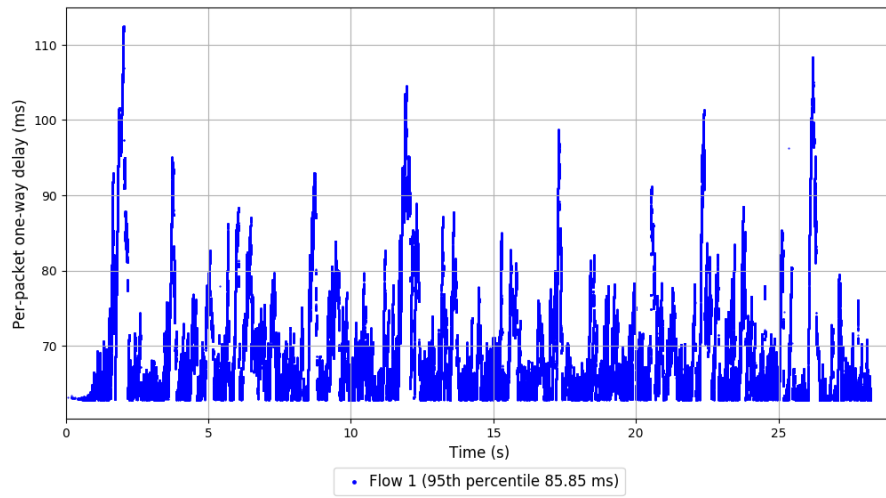
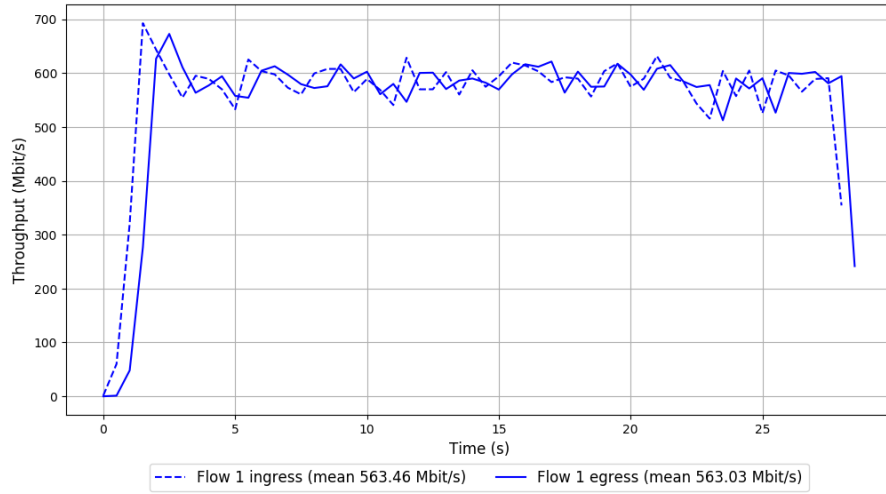
-- Flow 1:

Average throughput: 563.03 Mbit/s

95th percentile per-packet one-way delay: 85.854 ms

Loss rate: 0.52%

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



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-06-27 12:42:14

End at: 2019-06-27 12:42:44

Local clock offset: -0.024 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-06-27 14:57:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 536.48 Mbit/s

95th percentile per-packet one-way delay: 89.762 ms

Loss rate: 0.38%

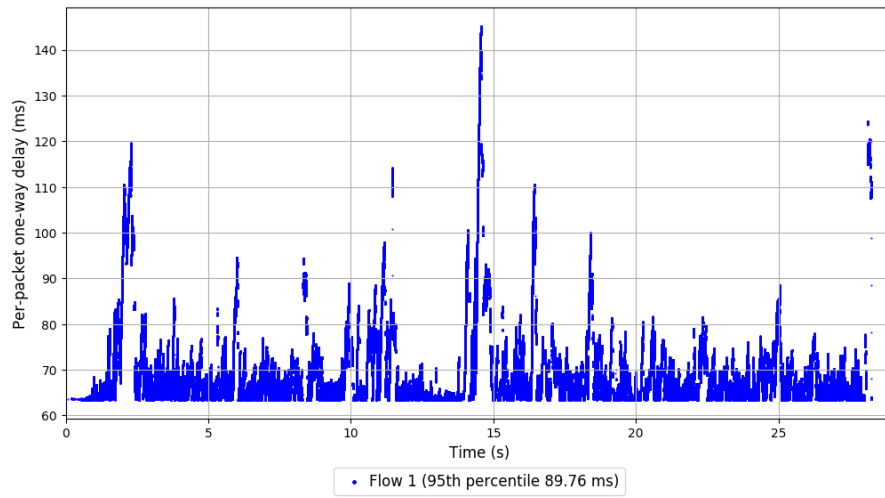
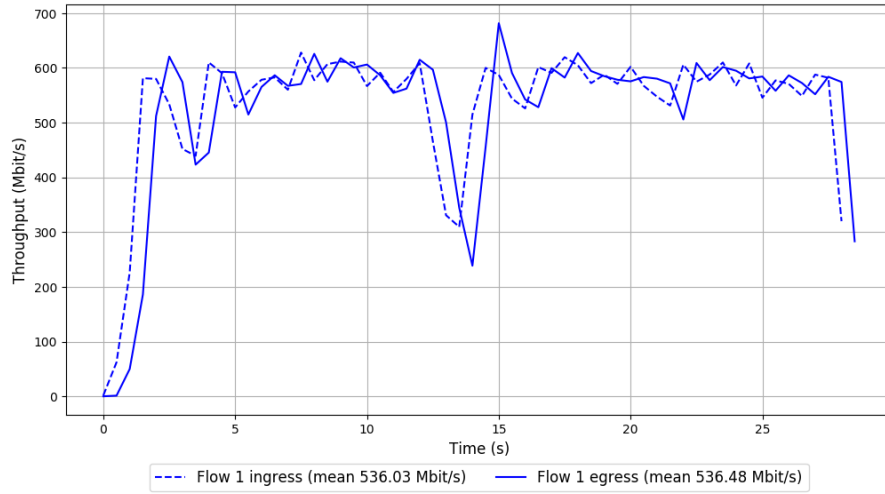
-- Flow 1:

Average throughput: 536.48 Mbit/s

95th percentile per-packet one-way delay: 89.762 ms

Loss rate: 0.38%

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

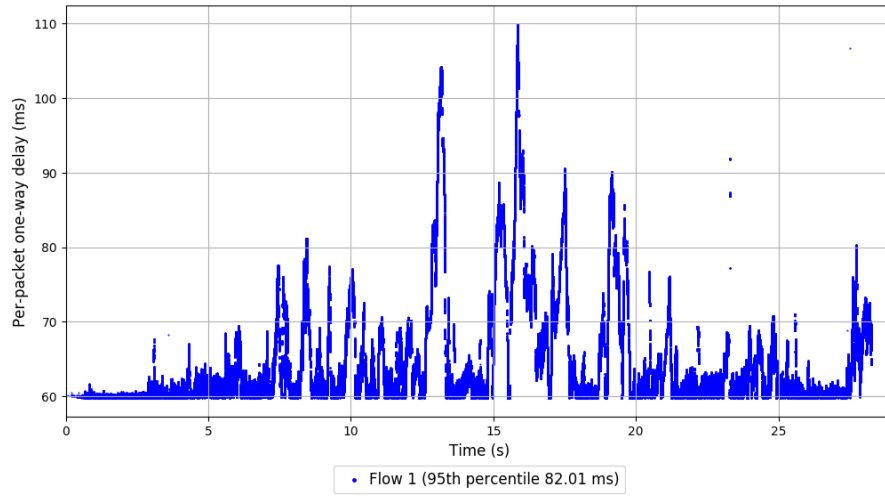
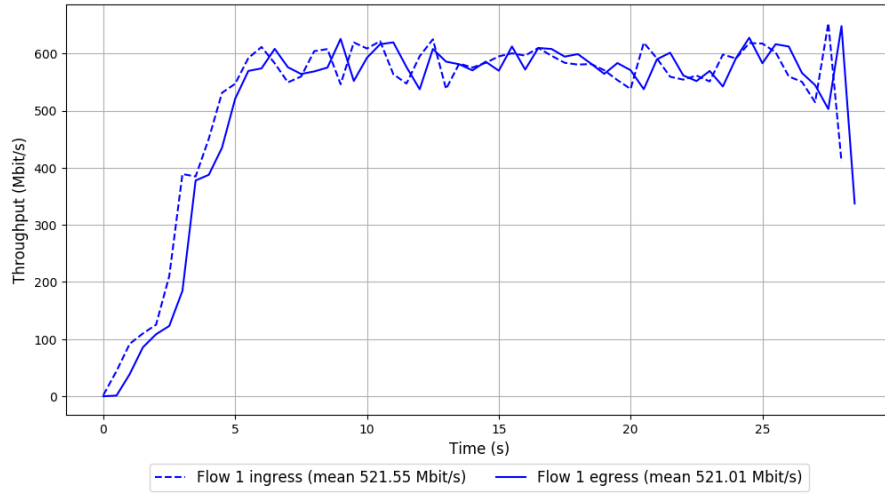


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-06-27 13:13:21  
End at: 2019-06-27 13:13:52  
Local clock offset: -0.023 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-06-27 15:01:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 521.01 Mbit/s  
95th percentile per-packet one-way delay: 82.009 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 521.01 Mbit/s  
95th percentile per-packet one-way delay: 82.009 ms  
Loss rate: 0.54%

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



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-06-27 13:44:53

End at: 2019-06-27 13:45:23

Local clock offset: -0.029 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-06-27 15:02:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 540.07 Mbit/s

95th percentile per-packet one-way delay: 114.820 ms

Loss rate: 0.70%

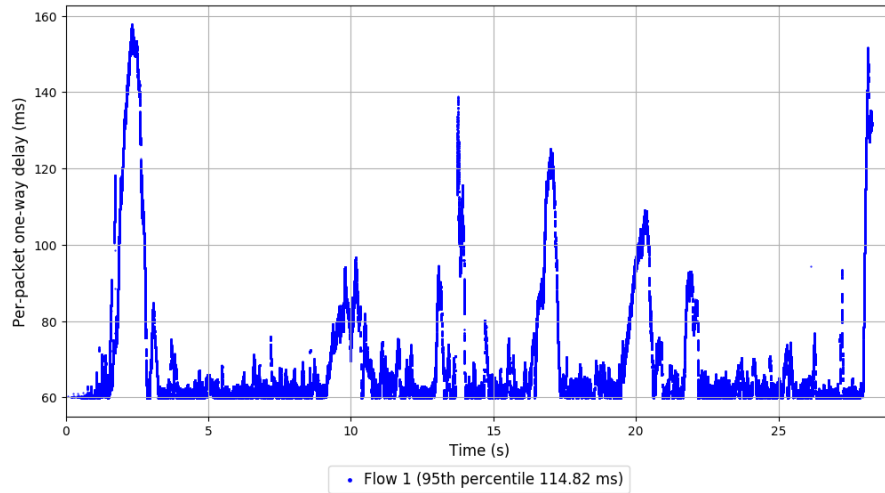
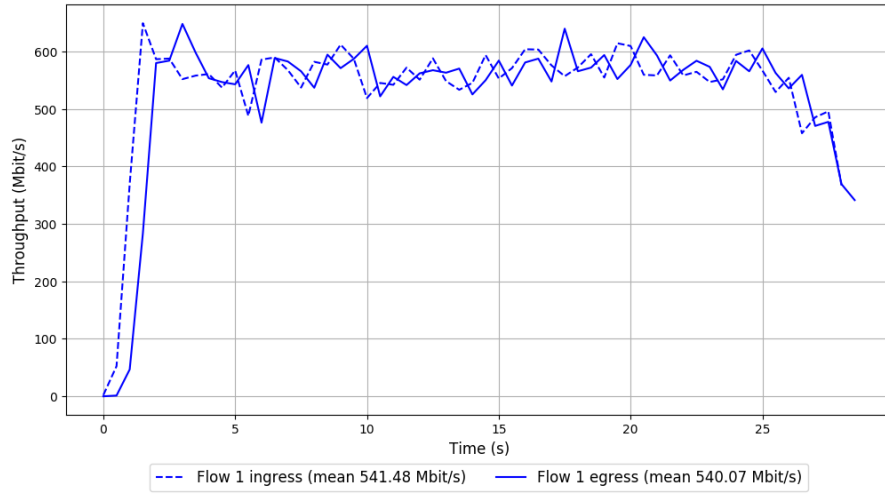
-- Flow 1:

Average throughput: 540.07 Mbit/s

95th percentile per-packet one-way delay: 114.820 ms

Loss rate: 0.70%

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





Run 1: Statistics of Indigo-MusesD

Start at: 2019-06-27 11:29:27

End at: 2019-06-27 11:29:57

Local clock offset: 0.064 ms

Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-06-27 15:02:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 482.17 Mbit/s

95th percentile per-packet one-way delay: 71.509 ms

Loss rate: 0.49%

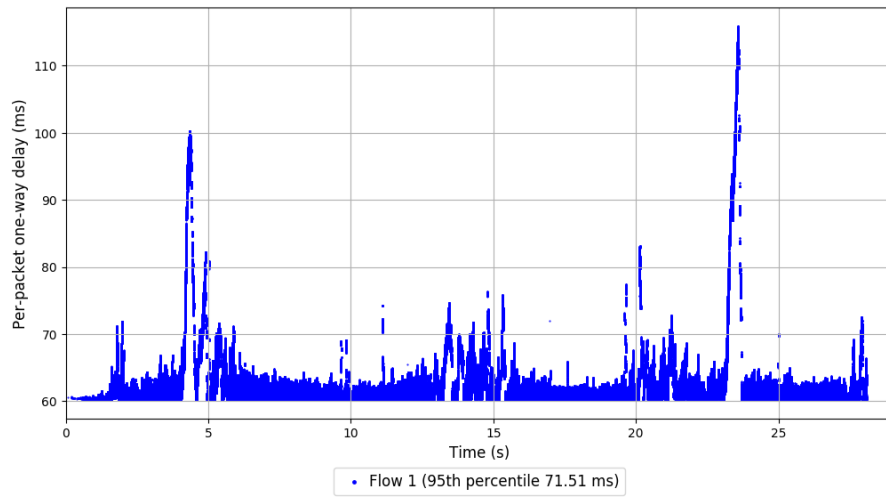
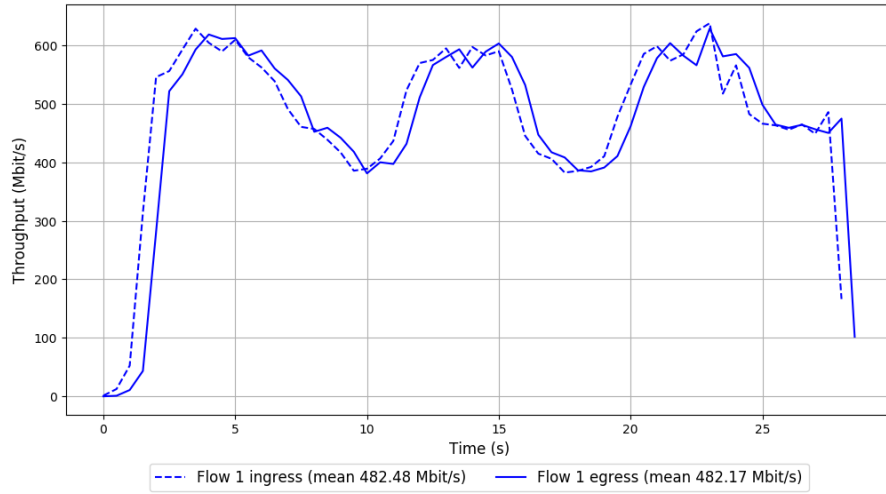
-- Flow 1:

Average throughput: 482.17 Mbit/s

95th percentile per-packet one-way delay: 71.509 ms

Loss rate: 0.49%

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



Run 2: Statistics of Indigo-MusesD

Start at: 2019-06-27 12:00:57

End at: 2019-06-27 12:01:27

Local clock offset: -0.15 ms

Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-06-27 15:02:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 471.80 Mbit/s

95th percentile per-packet one-way delay: 71.594 ms

Loss rate: 0.57%

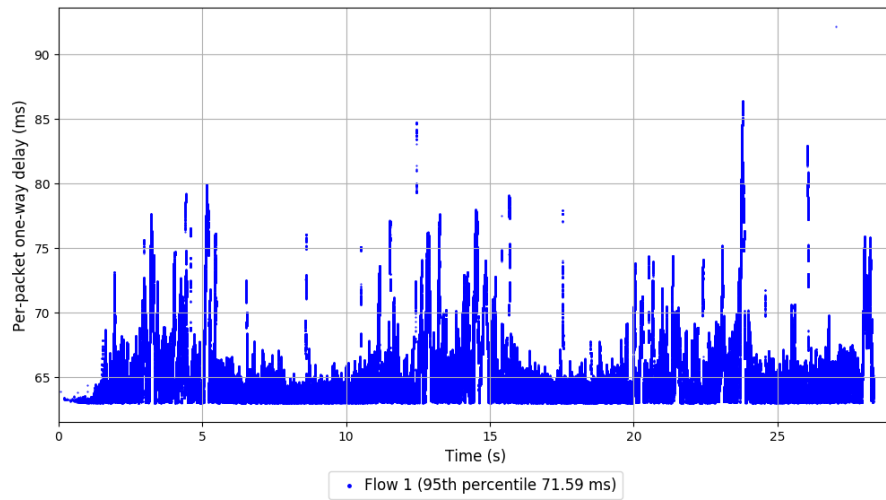
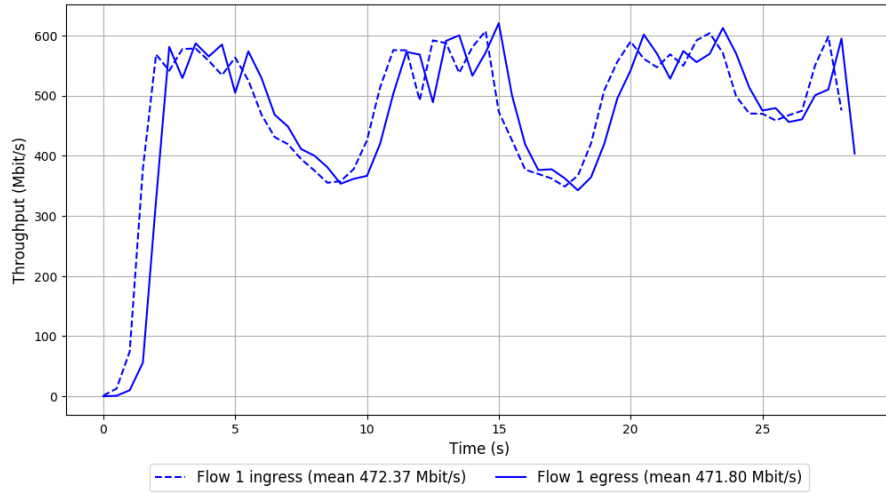
-- Flow 1:

Average throughput: 471.80 Mbit/s

95th percentile per-packet one-way delay: 71.594 ms

Loss rate: 0.57%

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



Run 3: Statistics of Indigo-MusesD

Start at: 2019-06-27 12:32:14

End at: 2019-06-27 12:32:44

Local clock offset: -0.029 ms

Remote clock offset: 0.153 ms

# Below is generated by plot.py at 2019-06-27 15:03:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 476.90 Mbit/s

95th percentile per-packet one-way delay: 71.818 ms

Loss rate: 0.58%

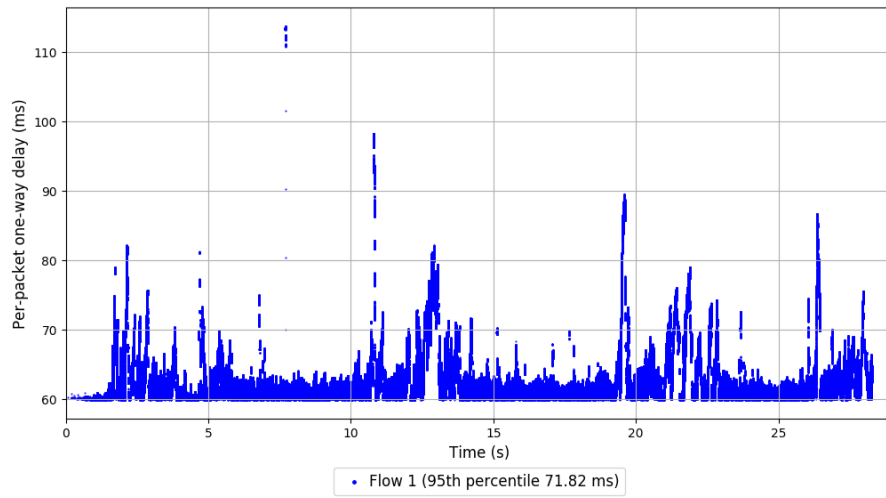
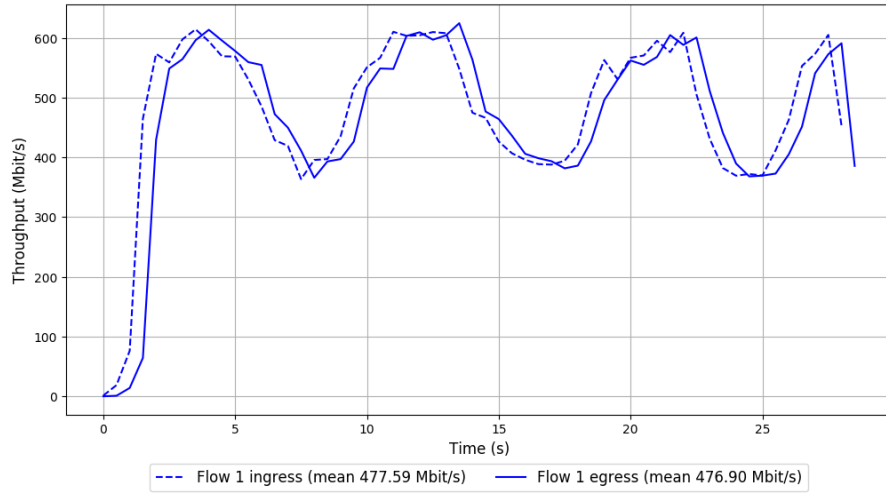
-- Flow 1:

Average throughput: 476.90 Mbit/s

95th percentile per-packet one-way delay: 71.818 ms

Loss rate: 0.58%

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



Run 4: Statistics of Indigo-MusesD

Start at: 2019-06-27 13:03:32

End at: 2019-06-27 13:04:02

Local clock offset: 0.019 ms

Remote clock offset: -0.33 ms

# Below is generated by plot.py at 2019-06-27 15:03:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 451.56 Mbit/s

95th percentile per-packet one-way delay: 73.516 ms

Loss rate: 0.42%

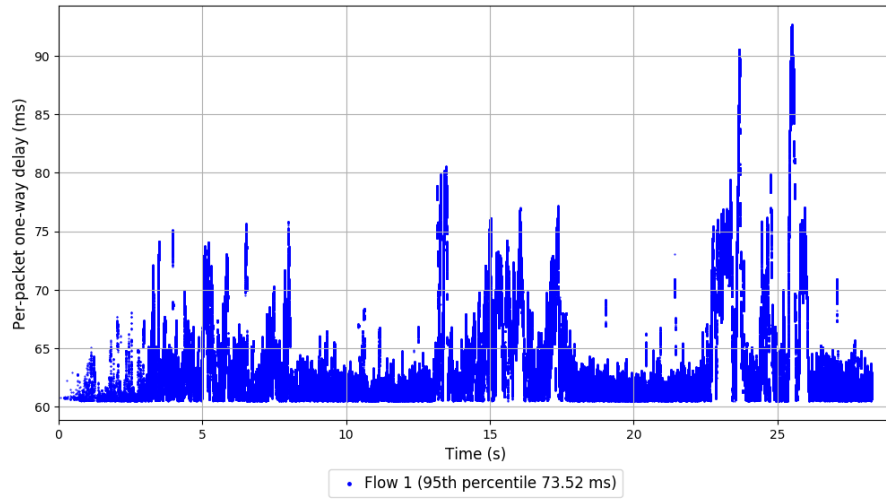
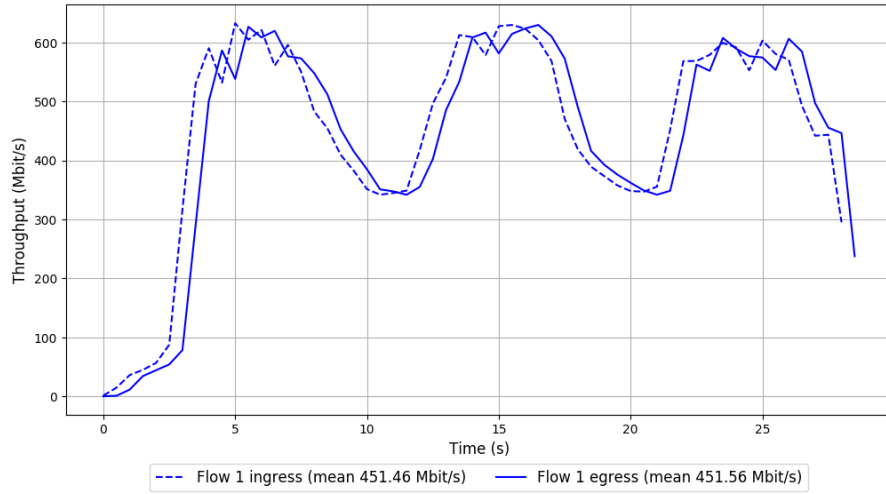
-- Flow 1:

Average throughput: 451.56 Mbit/s

95th percentile per-packet one-way delay: 73.516 ms

Loss rate: 0.42%

Run 4: Report of Indigo-MusesD — Data Link



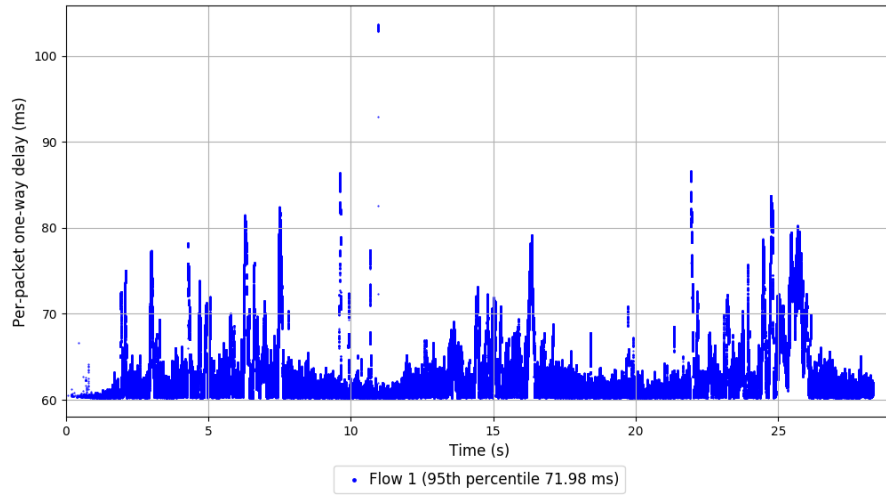
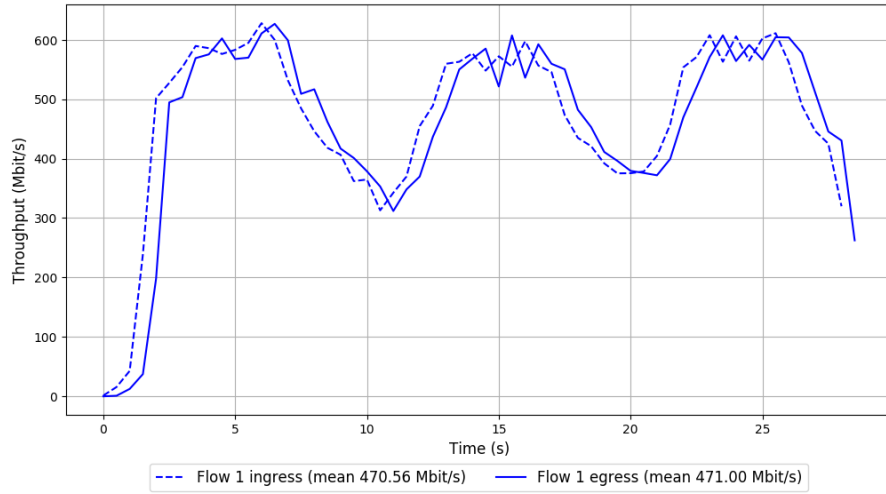


Run 5: Statistics of Indigo-MusesD

Start at: 2019-06-27 13:34:56  
End at: 2019-06-27 13:35:26  
Local clock offset: -0.009 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-06-27 15:03:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 471.00 Mbit/s  
95th percentile per-packet one-way delay: 71.978 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 471.00 Mbit/s  
95th percentile per-packet one-way delay: 71.978 ms  
Loss rate: 0.40%

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

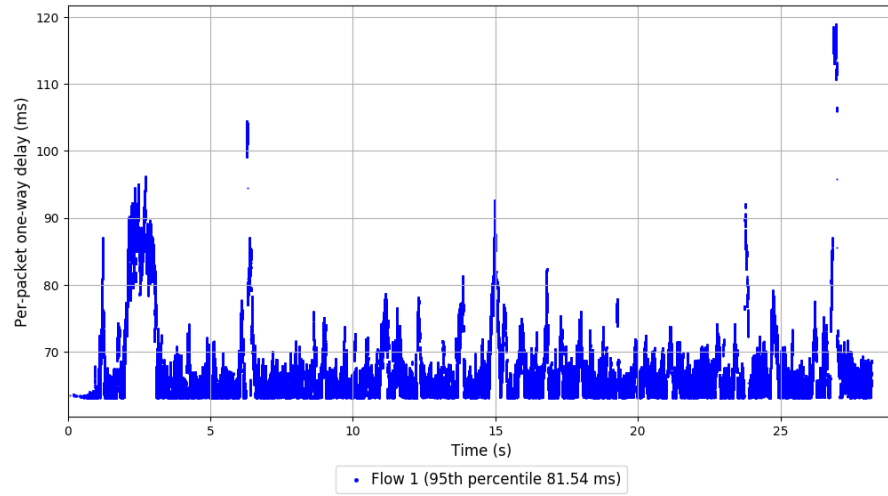
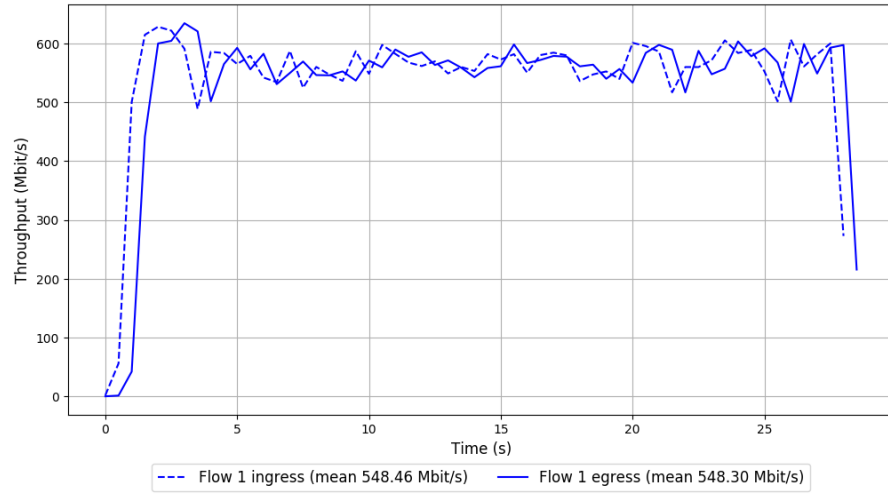


Run 1: Statistics of Indigo-MuseST

Start at: 2019-06-27 11:16:19  
End at: 2019-06-27 11:16:49  
Local clock offset: -0.007 ms  
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2019-06-27 15:07:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 548.30 Mbit/s  
95th percentile per-packet one-way delay: 81.542 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 548.30 Mbit/s  
95th percentile per-packet one-way delay: 81.542 ms  
Loss rate: 0.46%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2019-06-27 11:47:43

End at: 2019-06-27 11:48:14

Local clock offset: -0.054 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-06-27 15:11:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 582.29 Mbit/s

95th percentile per-packet one-way delay: 91.065 ms

Loss rate: 0.46%

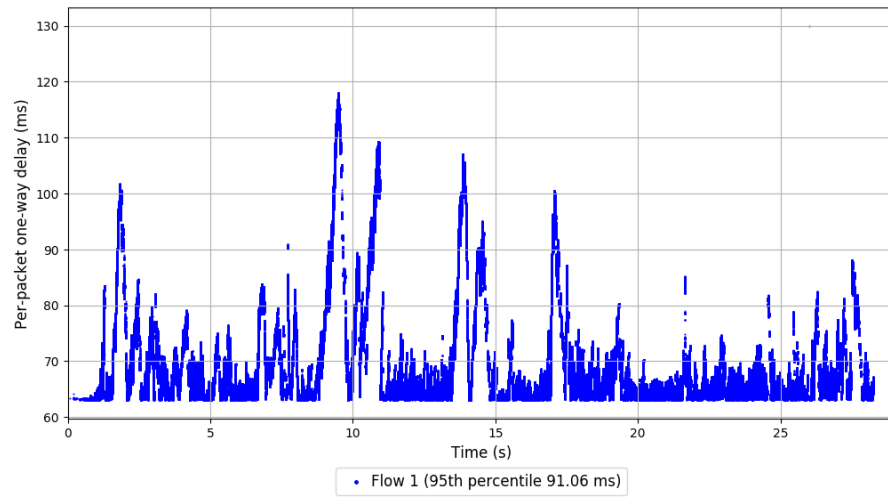
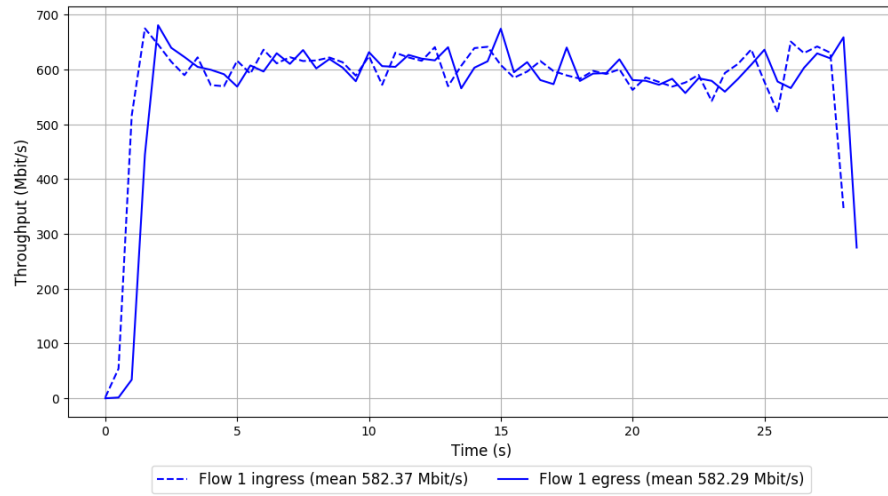
-- Flow 1:

Average throughput: 582.29 Mbit/s

95th percentile per-packet one-way delay: 91.065 ms

Loss rate: 0.46%

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



Run 3: Statistics of Indigo-MuseST

Start at: 2019-06-27 12:19:04

End at: 2019-06-27 12:19:34

Local clock offset: -0.046 ms

Remote clock offset: -0.733 ms

# Below is generated by plot.py at 2019-06-27 15:11:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 583.32 Mbit/s

95th percentile per-packet one-way delay: 99.884 ms

Loss rate: 0.52%

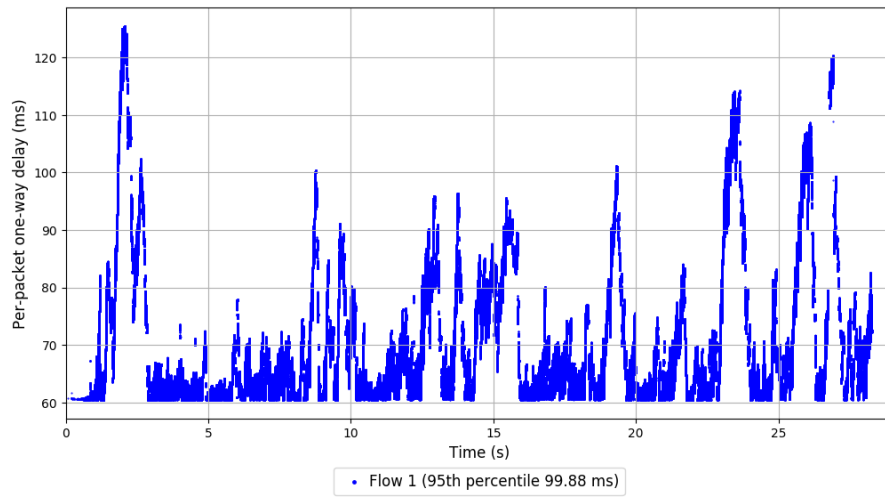
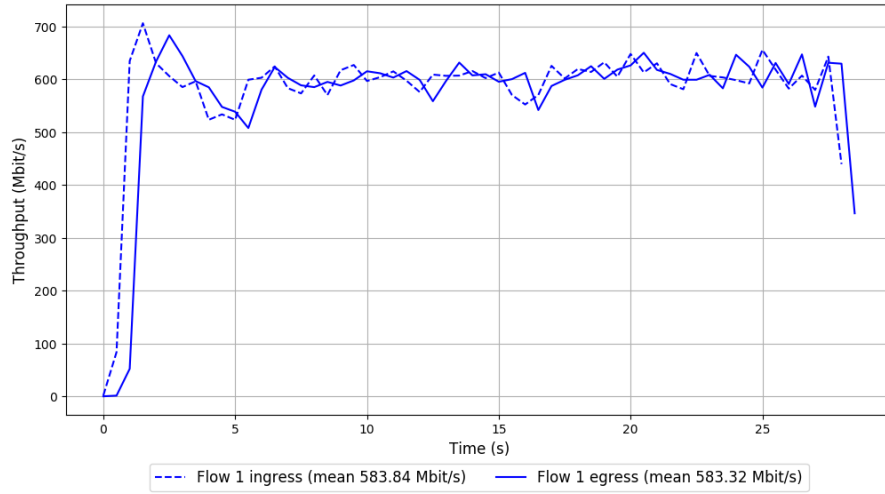
-- Flow 1:

Average throughput: 583.32 Mbit/s

95th percentile per-packet one-way delay: 99.884 ms

Loss rate: 0.52%

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





Run 4: Statistics of Indigo-MuseST

Start at: 2019-06-27 12:50:33

End at: 2019-06-27 12:51:03

Local clock offset: -0.049 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-06-27 15:11:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 581.73 Mbit/s

95th percentile per-packet one-way delay: 78.888 ms

Loss rate: 0.45%

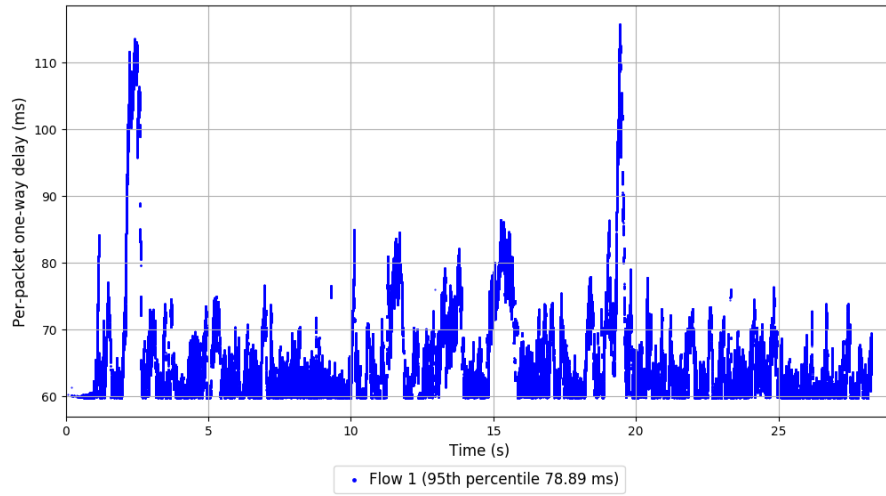
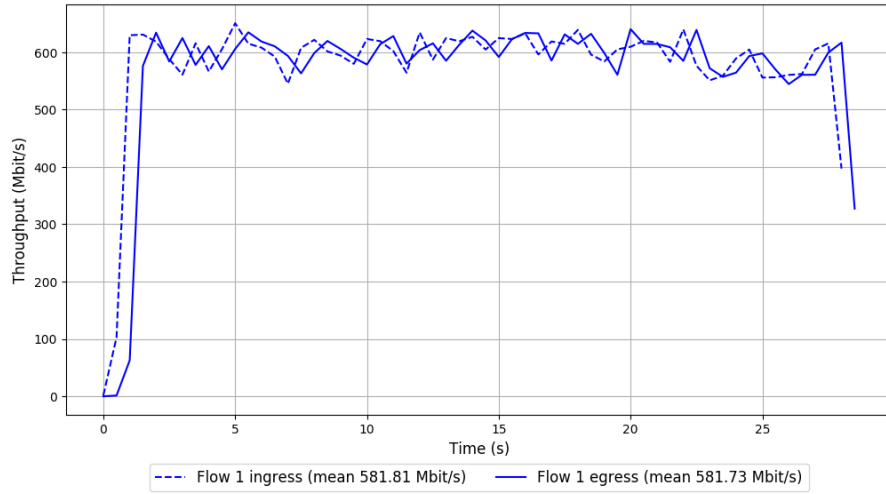
-- Flow 1:

Average throughput: 581.73 Mbit/s

95th percentile per-packet one-way delay: 78.888 ms

Loss rate: 0.45%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-06-27 13:21:38

End at: 2019-06-27 13:22:08

Local clock offset: -0.021 ms

Remote clock offset: -0.465 ms

# Below is generated by plot.py at 2019-06-27 15:11:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 574.47 Mbit/s

95th percentile per-packet one-way delay: 88.062 ms

Loss rate: 0.56%

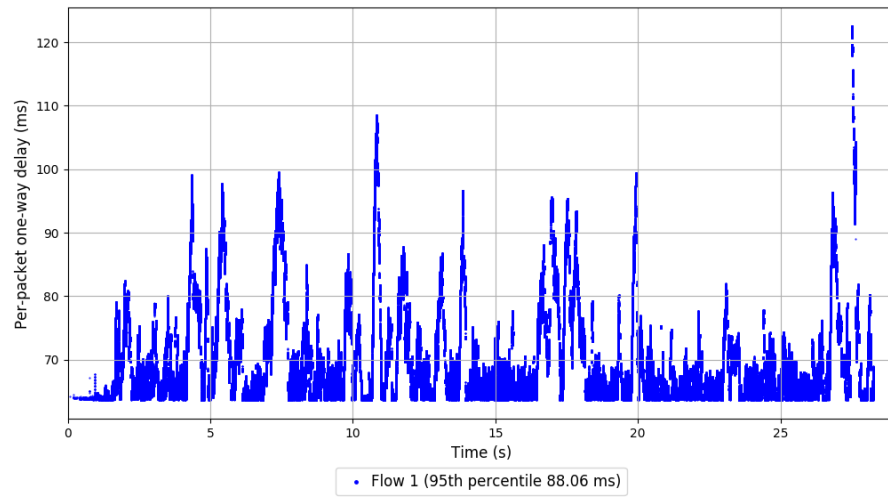
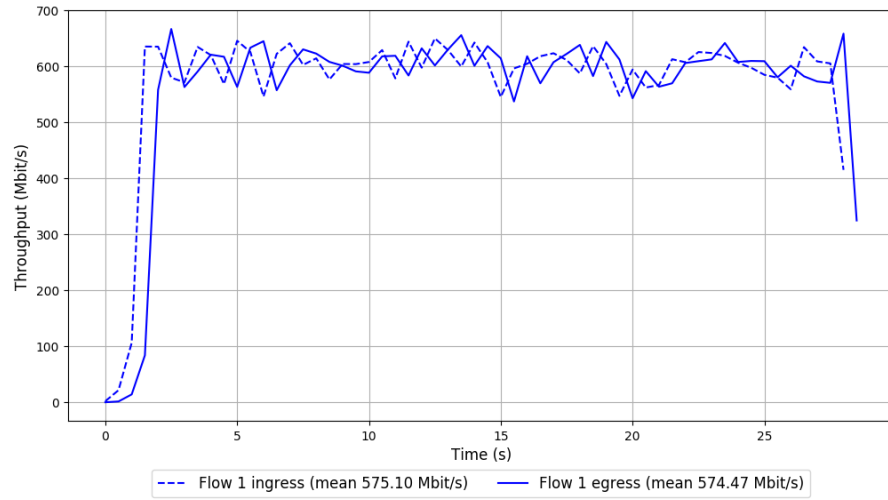
-- Flow 1:

Average throughput: 574.47 Mbit/s

95th percentile per-packet one-way delay: 88.062 ms

Loss rate: 0.56%

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

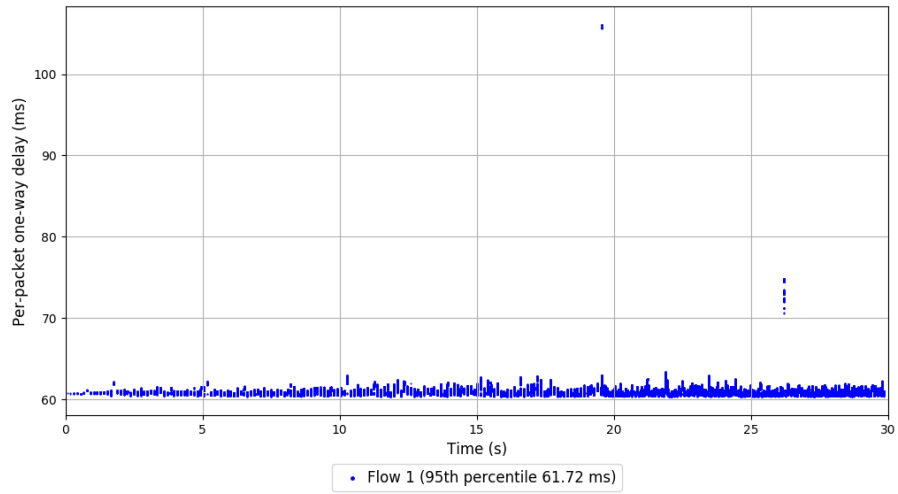
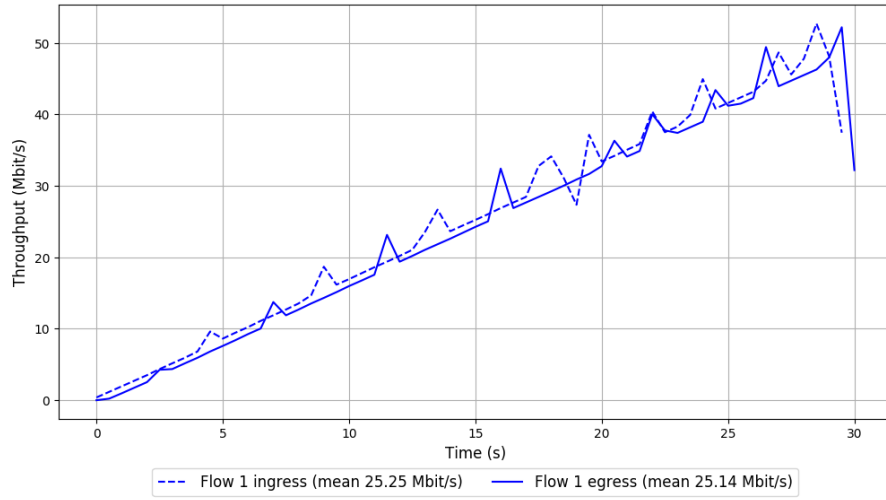


Run 1: Statistics of LEDBAT

Start at: 2019-06-27 11:21:07  
End at: 2019-06-27 11:21:37  
Local clock offset: 0.013 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-06-27 15:11:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 25.14 Mbit/s  
95th percentile per-packet one-way delay: 61.722 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 25.14 Mbit/s  
95th percentile per-packet one-way delay: 61.722 ms  
Loss rate: 0.81%

Run 1: Report of LEDBAT — Data Link

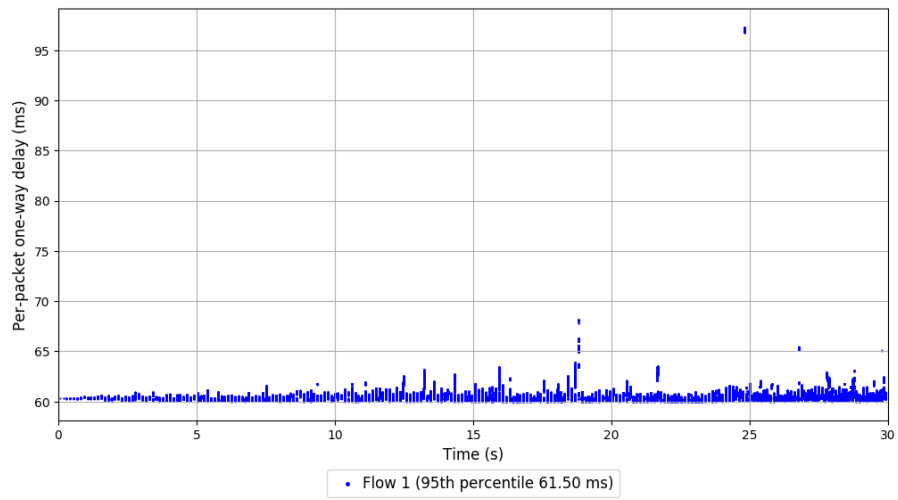
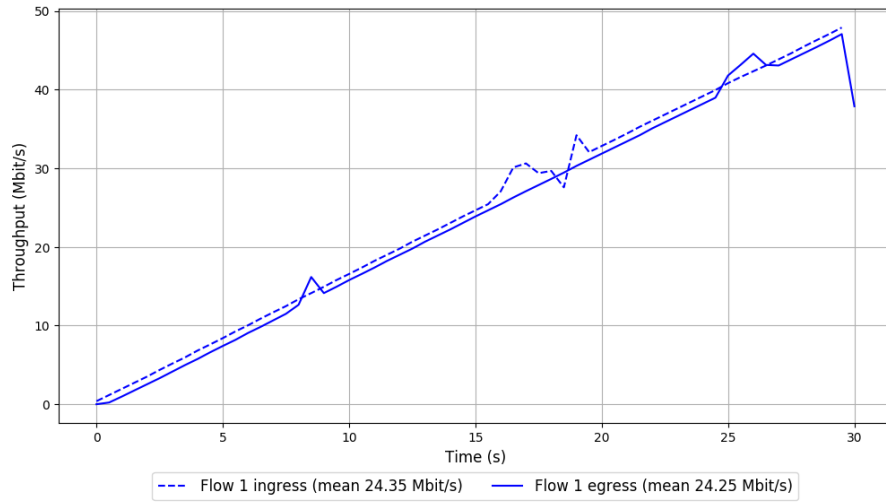


Run 2: Statistics of LEDBAT

Start at: 2019-06-27 11:52:32  
End at: 2019-06-27 11:53:02  
Local clock offset: -0.078 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-06-27 15:11:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.25 Mbit/s  
95th percentile per-packet one-way delay: 61.499 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 24.25 Mbit/s  
95th percentile per-packet one-way delay: 61.499 ms  
Loss rate: 0.83%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-06-27 12:23:47

End at: 2019-06-27 12:24:17

Local clock offset: -0.068 ms

Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2019-06-27 15:11:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.25 Mbit/s

95th percentile per-packet one-way delay: 64.438 ms

Loss rate: 0.82%

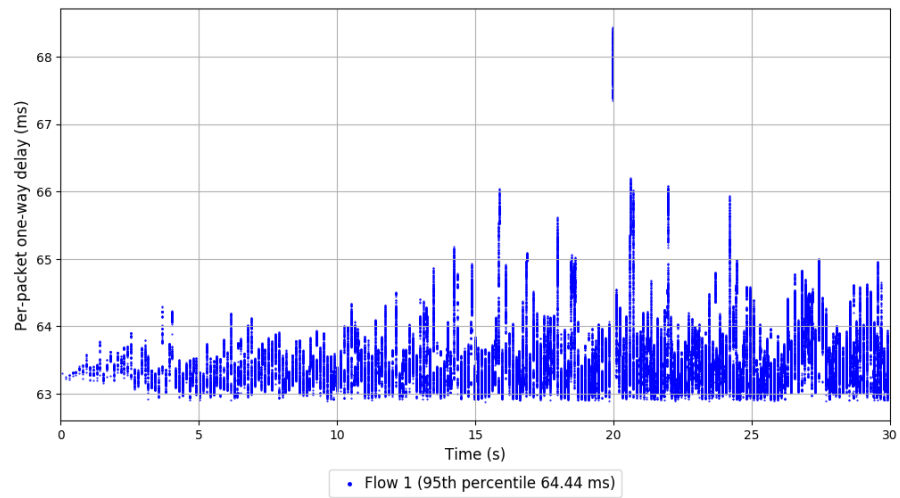
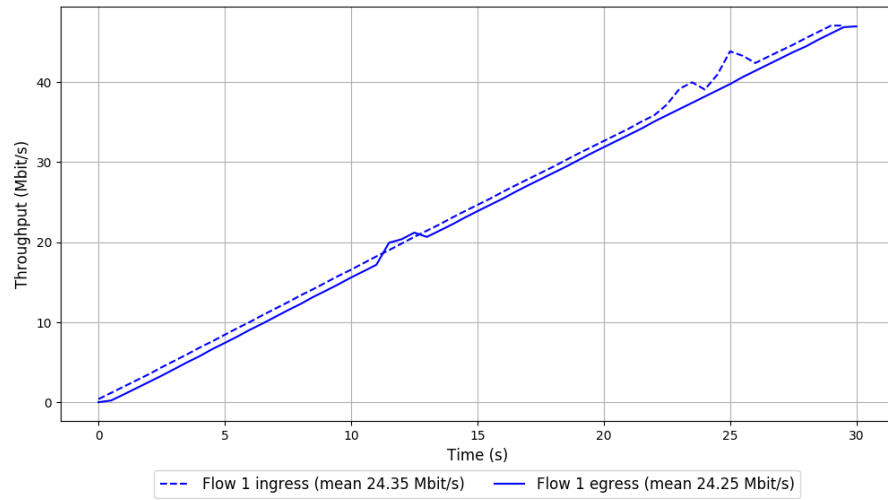
-- Flow 1:

Average throughput: 24.25 Mbit/s

95th percentile per-packet one-way delay: 64.438 ms

Loss rate: 0.82%

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



Run 4: Statistics of LEDBAT

Start at: 2019-06-27 12:55:22

End at: 2019-06-27 12:55:52

Local clock offset: -0.009 ms

Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2019-06-27 15:11:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 61.857 ms

Loss rate: 0.80%

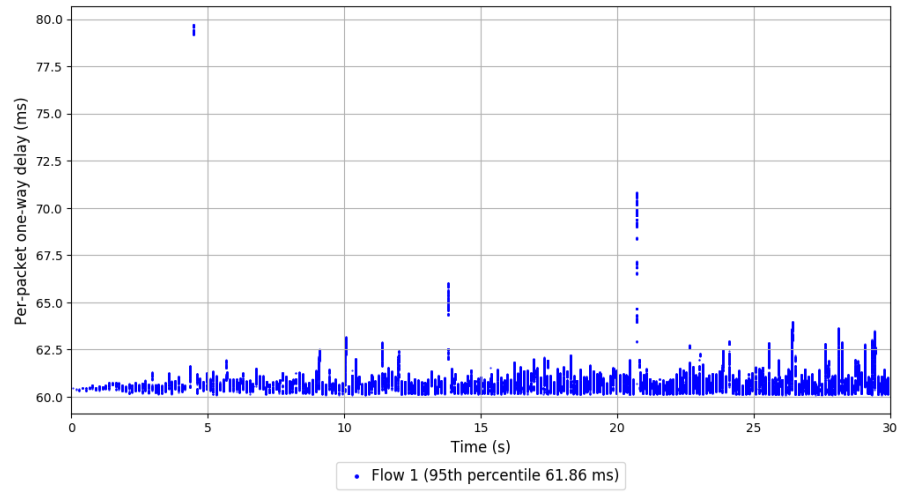
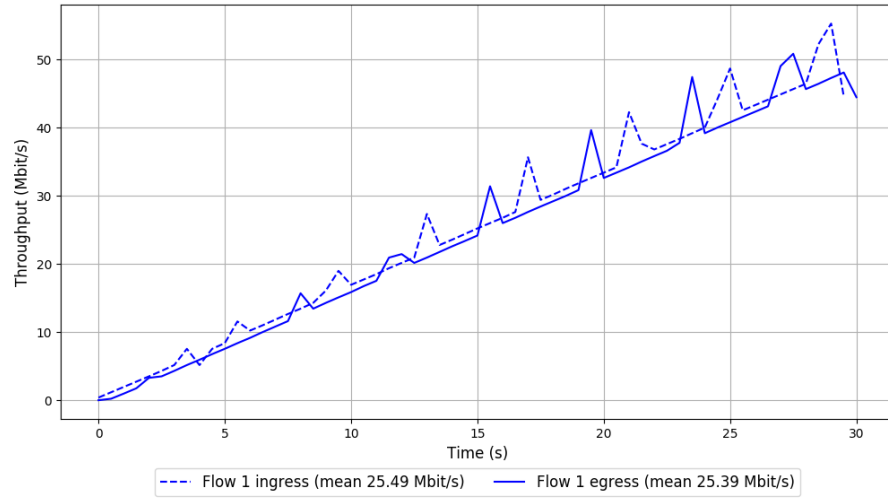
-- Flow 1:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 61.857 ms

Loss rate: 0.80%

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



Run 5: Statistics of LEDBAT

Start at: 2019-06-27 13:26:27

End at: 2019-06-27 13:26:57

Local clock offset: -0.012 ms

Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2019-06-27 15:11:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 61.559 ms

Loss rate: 0.83%

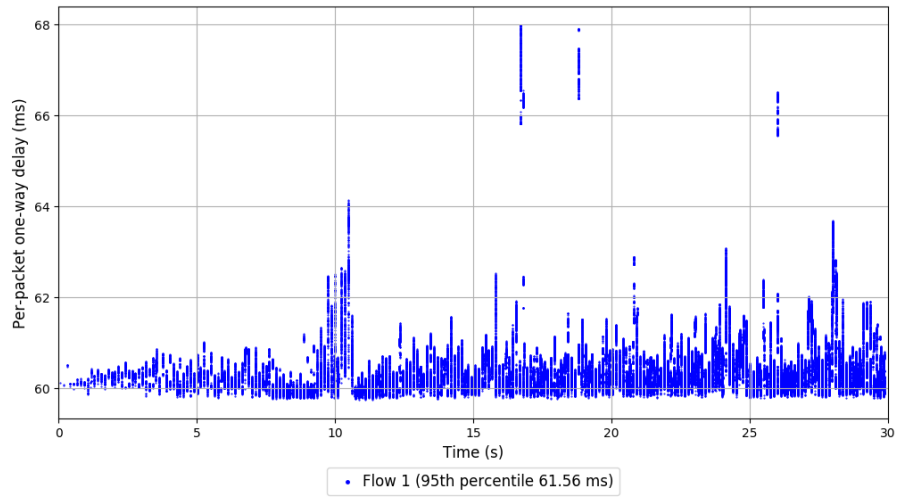
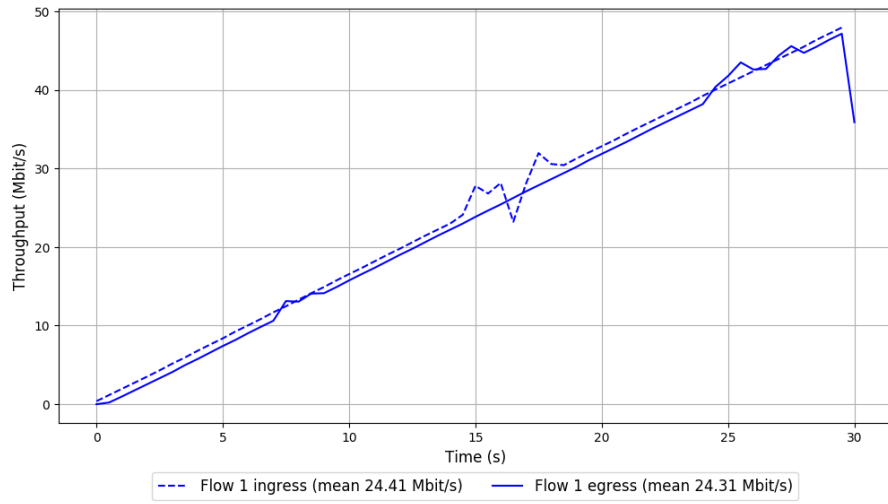
-- Flow 1:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 61.559 ms

Loss rate: 0.83%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 11:13:47

End at: 2019-06-27 11:14:17

Local clock offset: 0.009 ms

Remote clock offset: -0.131 ms

Run 1: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 11:45:03

End at: 2019-06-27 11:45:33

Local clock offset: -0.069 ms

Remote clock offset: -0.061 ms

Run 2: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 12:16:24

End at: 2019-06-27 12:16:54

Local clock offset: -0.067 ms

Remote clock offset: -0.044 ms

Run 3: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 12:47:53

End at: 2019-06-27 12:48:23

Local clock offset: -0.057 ms

Remote clock offset: 0.056 ms

Run 4: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 13:18:57

End at: 2019-06-27 13:19:27

Local clock offset: 0.048 ms

Remote clock offset: 0.274 ms

Run 5: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing



Run 1: Statistics of PCC-Allegro

Start at: 2019-06-27 11:27:53

End at: 2019-06-27 11:28:23

Local clock offset: 0.011 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-06-27 15:18:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 387.01 Mbit/s

95th percentile per-packet one-way delay: 147.848 ms

Loss rate: 0.89%

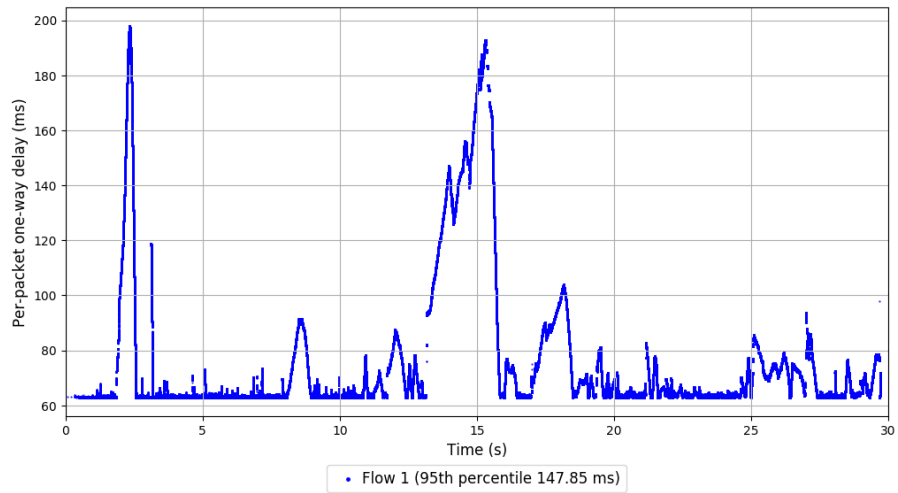
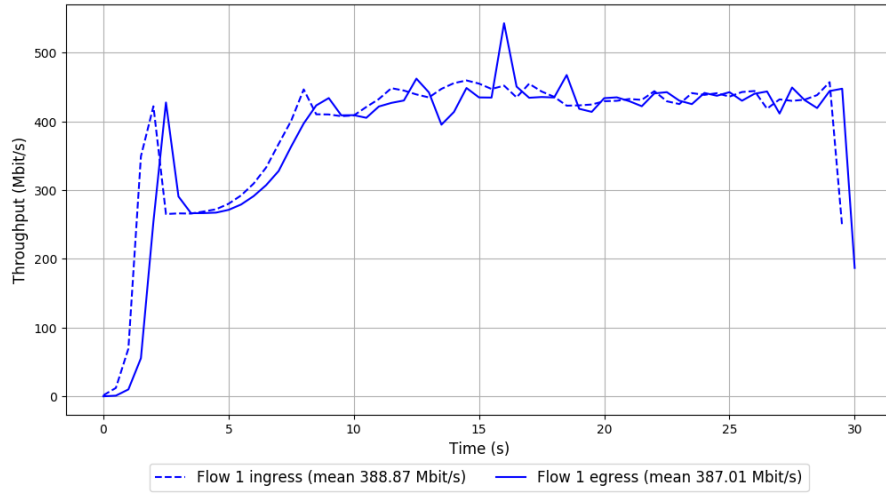
-- Flow 1:

Average throughput: 387.01 Mbit/s

95th percentile per-packet one-way delay: 147.848 ms

Loss rate: 0.89%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-06-27 11:59:23

End at: 2019-06-27 11:59:53

Local clock offset: -0.084 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-06-27 15:18:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 387.71 Mbit/s

95th percentile per-packet one-way delay: 175.077 ms

Loss rate: 1.37%

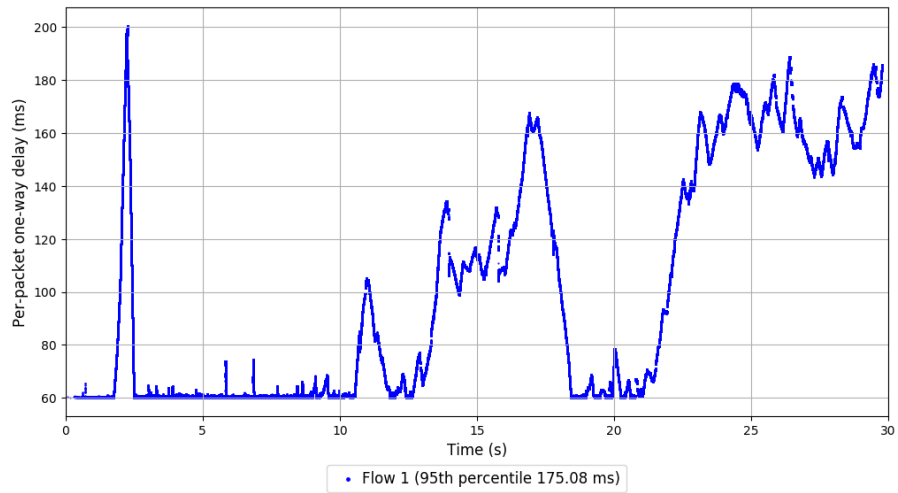
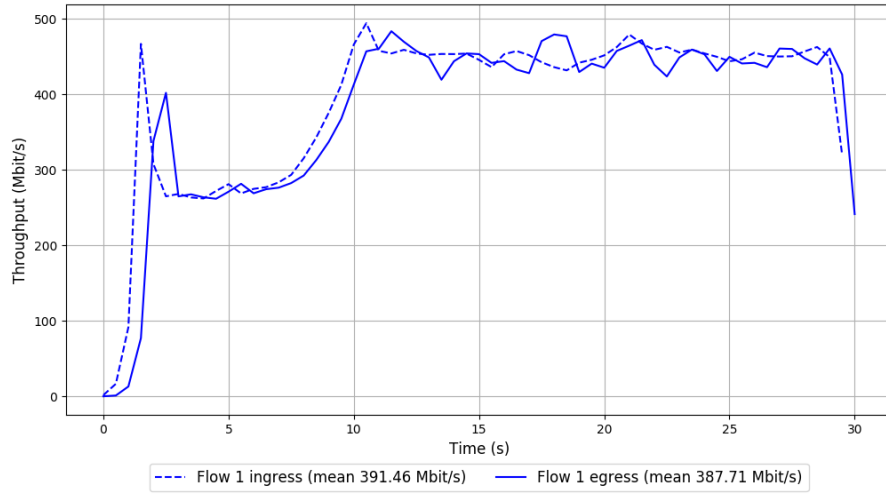
-- Flow 1:

Average throughput: 387.71 Mbit/s

95th percentile per-packet one-way delay: 175.077 ms

Loss rate: 1.37%

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



Run 3: Statistics of PCC-Allegro

Start at: 2019-06-27 12:30:42

End at: 2019-06-27 12:31:12

Local clock offset: -0.041 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-06-27 15:18:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 368.97 Mbit/s

95th percentile per-packet one-way delay: 97.147 ms

Loss rate: 0.56%

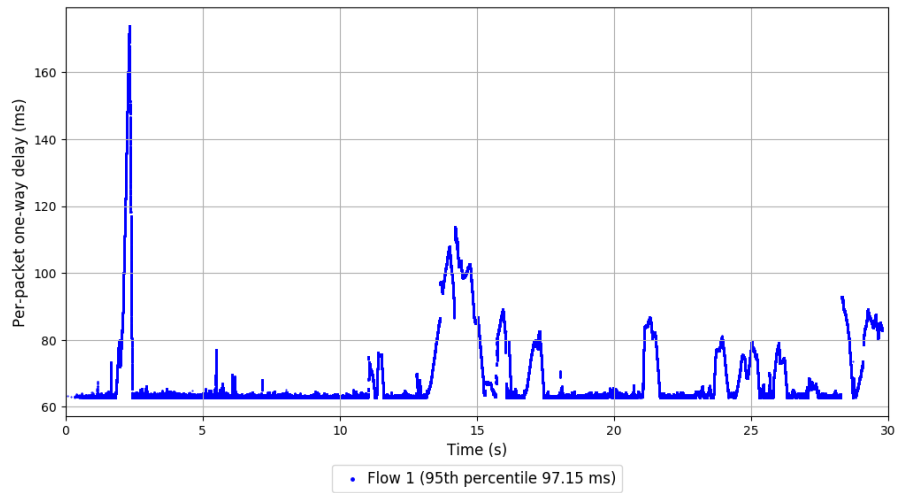
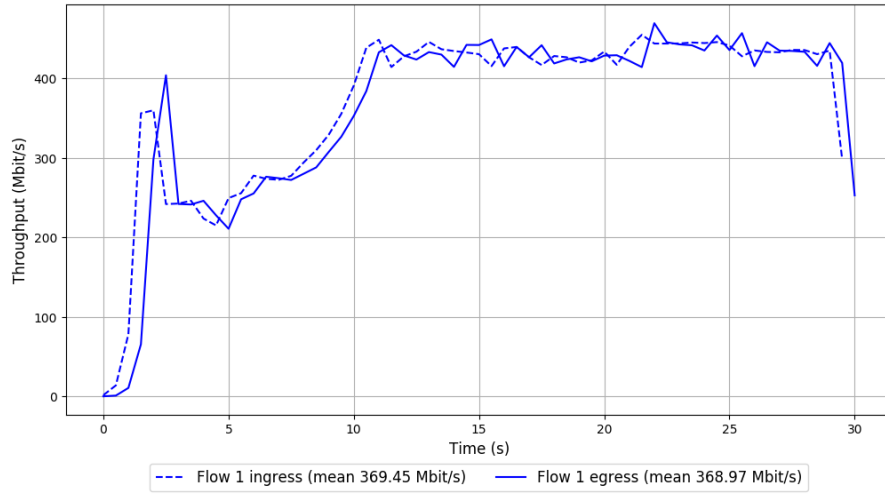
-- Flow 1:

Average throughput: 368.97 Mbit/s

95th percentile per-packet one-way delay: 97.147 ms

Loss rate: 0.56%

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



Run 4: Statistics of PCC-Allegro

Start at: 2019-06-27 13:02:12

End at: 2019-06-27 13:02:42

Local clock offset: -0.031 ms

Remote clock offset: -0.463 ms

# Below is generated by plot.py at 2019-06-27 15:18:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.99 Mbit/s

95th percentile per-packet one-way delay: 61.490 ms

Loss rate: 0.92%

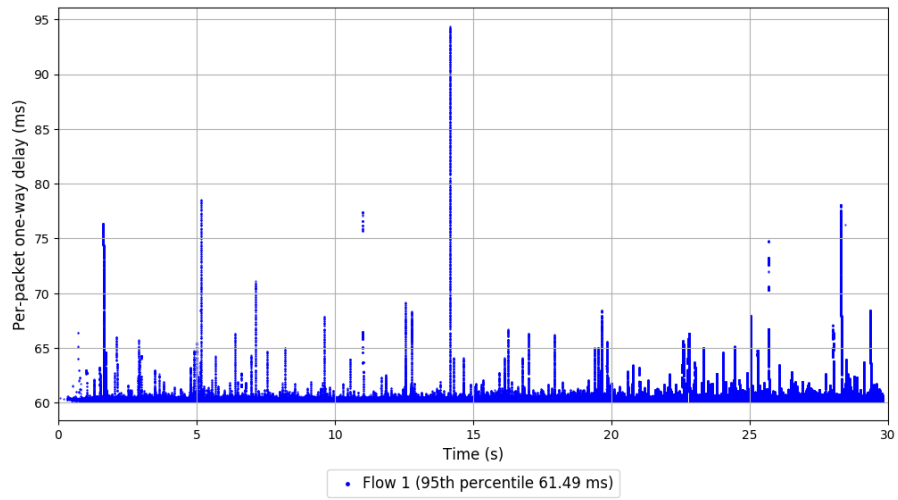
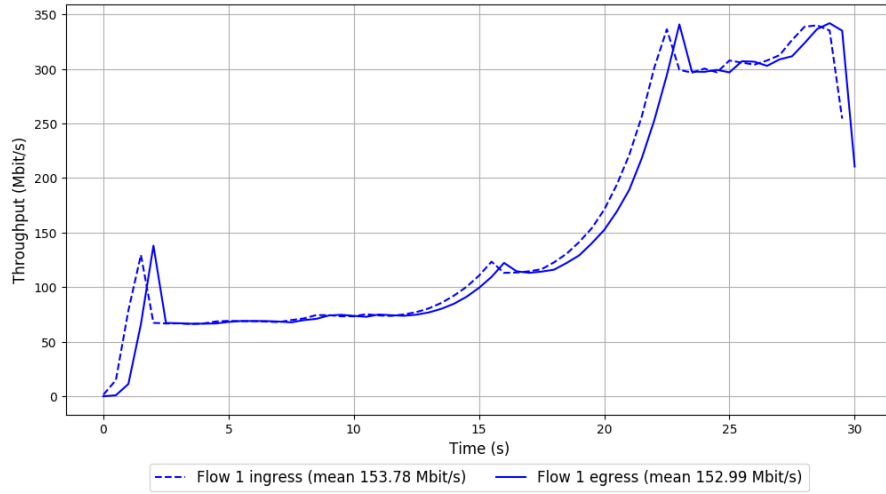
-- Flow 1:

Average throughput: 152.99 Mbit/s

95th percentile per-packet one-way delay: 61.490 ms

Loss rate: 0.92%

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





Run 5: Statistics of PCC-Allegro

Start at: 2019-06-27 13:33:24

End at: 2019-06-27 13:33:54

Local clock offset: -0.015 ms

Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-06-27 15:25:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 375.13 Mbit/s

95th percentile per-packet one-way delay: 181.644 ms

Loss rate: 1.82%

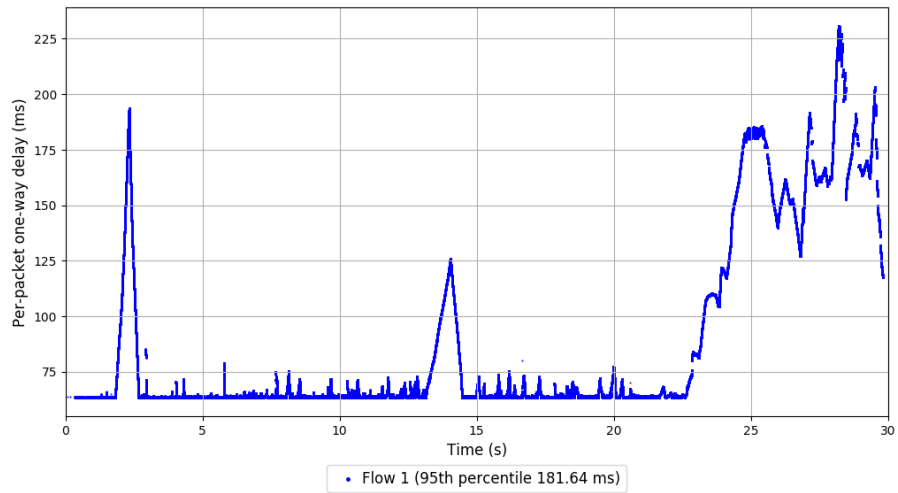
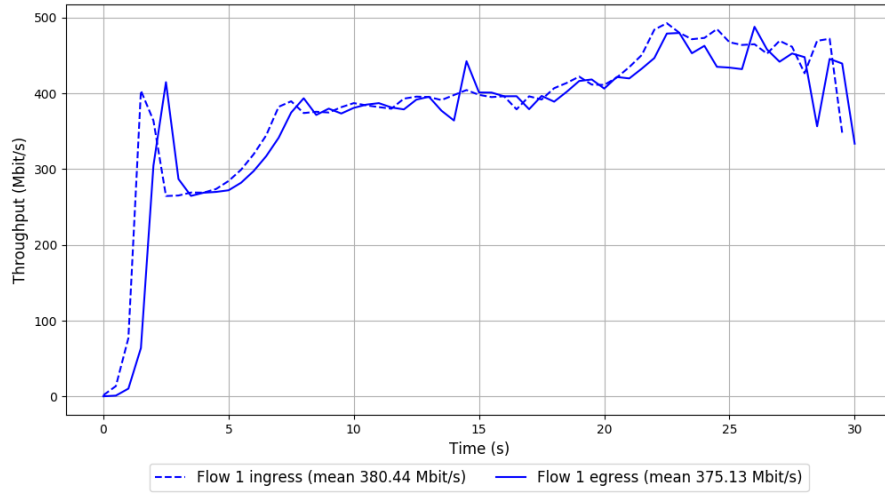
-- Flow 1:

Average throughput: 375.13 Mbit/s

95th percentile per-packet one-way delay: 181.644 ms

Loss rate: 1.82%

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



Run 1: Statistics of PCC-Expr

Start at: 2019-06-27 11:22:18

End at: 2019-06-27 11:22:48

Local clock offset: -0.02 ms

Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-06-27 15:25:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 240.76 Mbit/s

95th percentile per-packet one-way delay: 165.016 ms

Loss rate: 1.01%

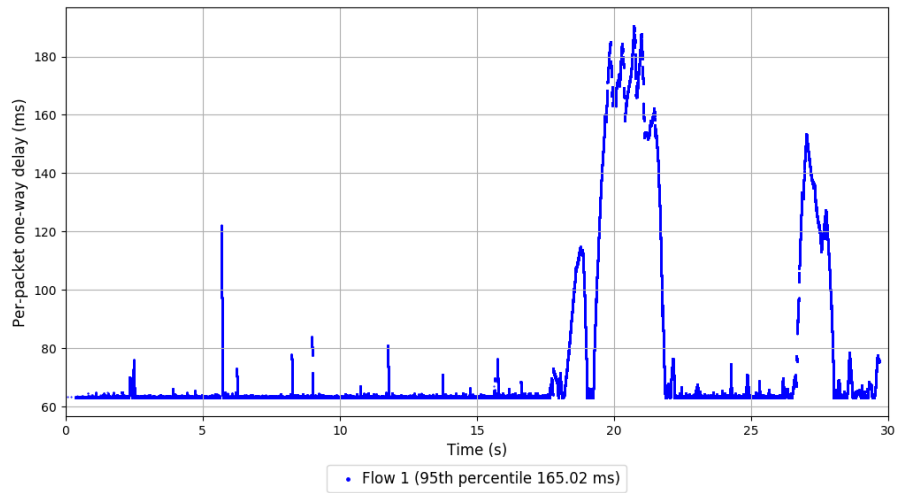
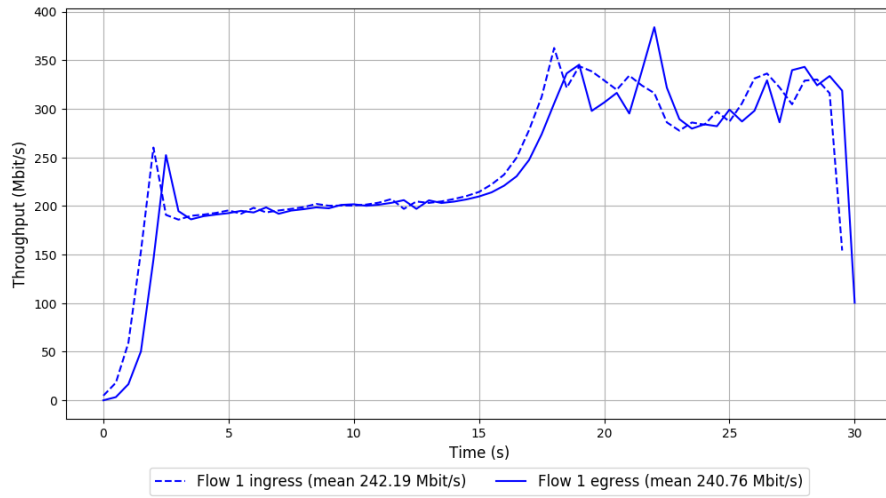
-- Flow 1:

Average throughput: 240.76 Mbit/s

95th percentile per-packet one-way delay: 165.016 ms

Loss rate: 1.01%

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

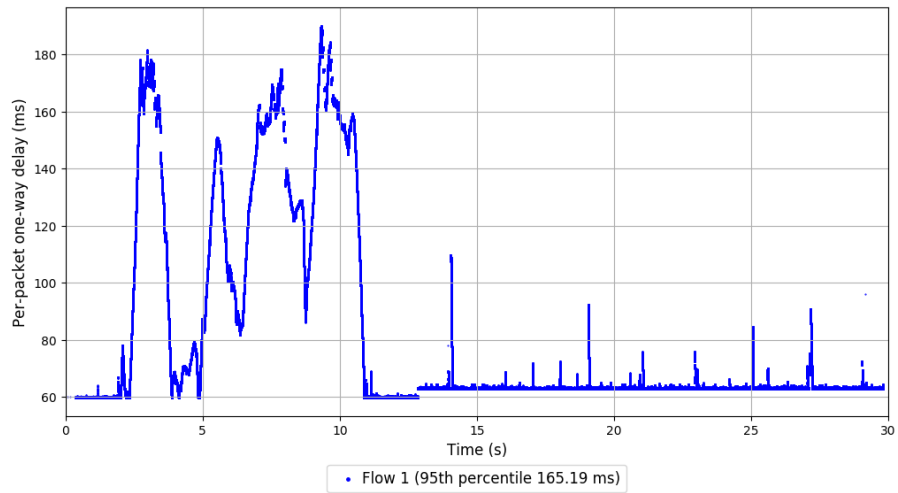
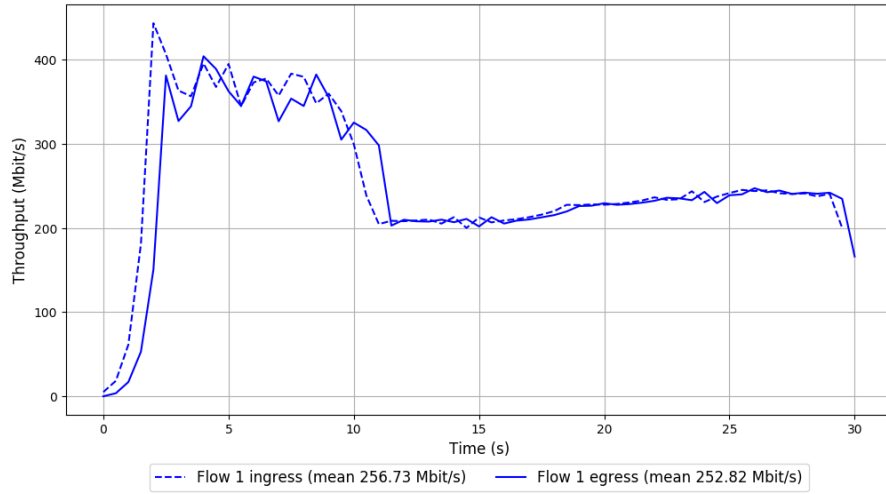


Run 2: Statistics of PCC-Expr

Start at: 2019-06-27 11:53:43  
End at: 2019-06-27 11:54:13  
Local clock offset: -0.094 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-06-27 15:25:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 252.82 Mbit/s  
95th percentile per-packet one-way delay: 165.192 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 252.82 Mbit/s  
95th percentile per-packet one-way delay: 165.192 ms  
Loss rate: 1.93%

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

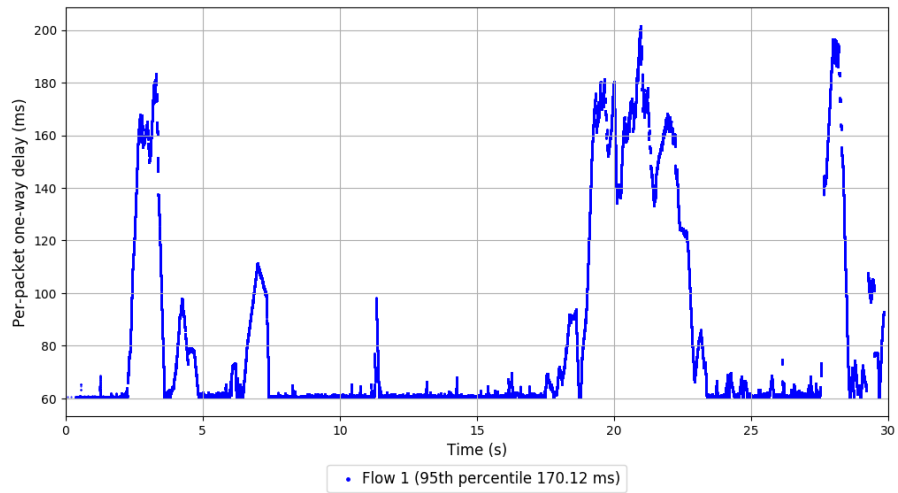
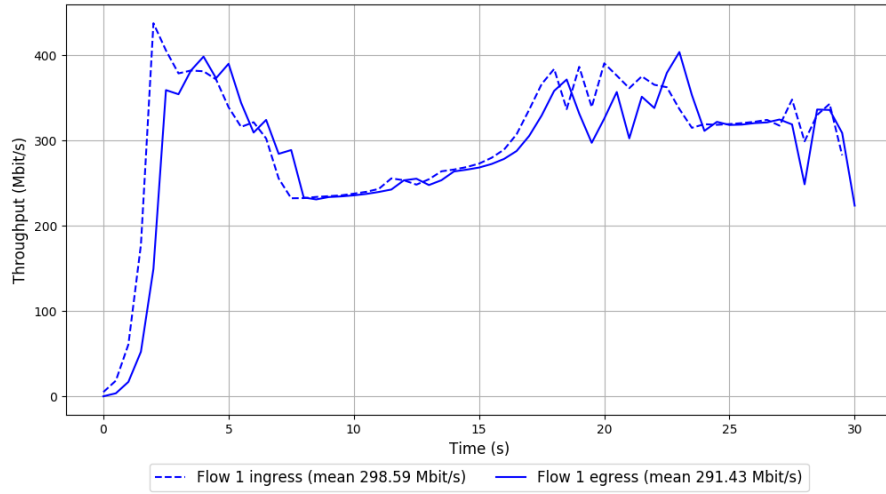


Run 3: Statistics of PCC-Expr

Start at: 2019-06-27 12:24:57  
End at: 2019-06-27 12:25:27  
Local clock offset: -0.015 ms  
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2019-06-27 15:25:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 291.43 Mbit/s  
95th percentile per-packet one-way delay: 170.121 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 291.43 Mbit/s  
95th percentile per-packet one-way delay: 170.121 ms  
Loss rate: 2.80%

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





Run 4: Statistics of PCC-Expr

Start at: 2019-06-27 12:56:33

End at: 2019-06-27 12:57:03

Local clock offset: 0.006 ms

Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-06-27 15:25:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 281.62 Mbit/s

95th percentile per-packet one-way delay: 171.563 ms

Loss rate: 2.84%

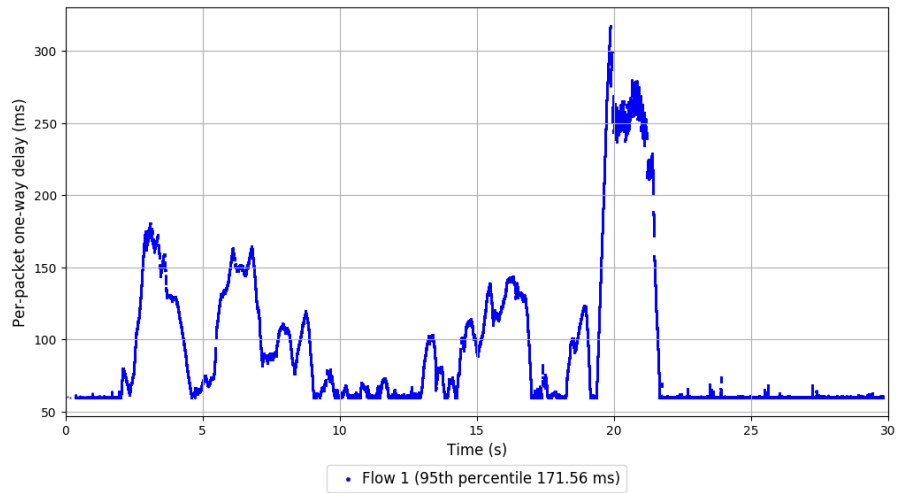
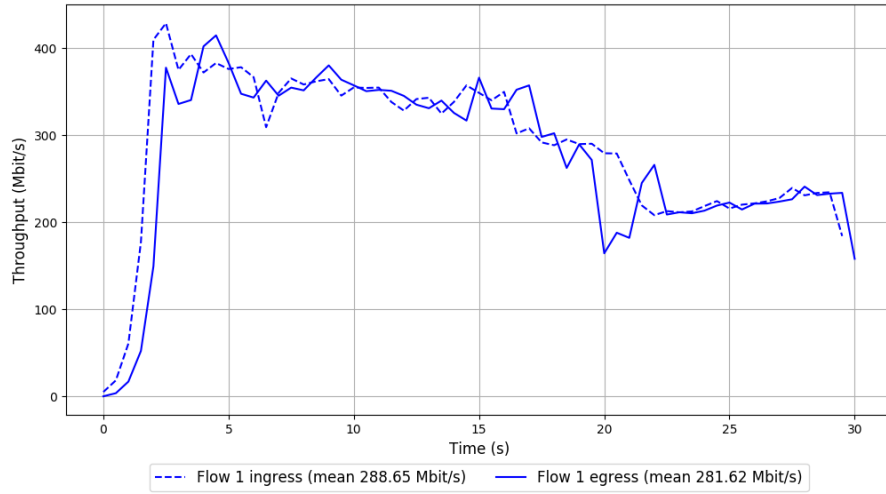
-- Flow 1:

Average throughput: 281.62 Mbit/s

95th percentile per-packet one-way delay: 171.563 ms

Loss rate: 2.84%

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

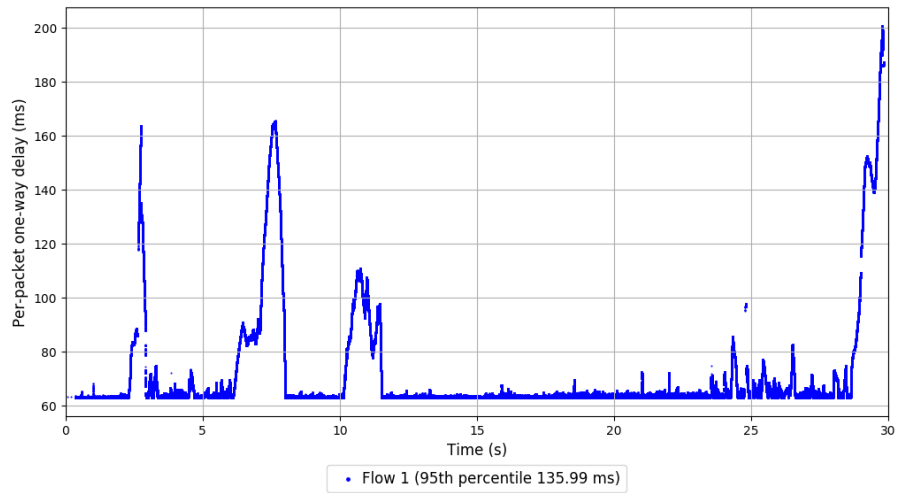
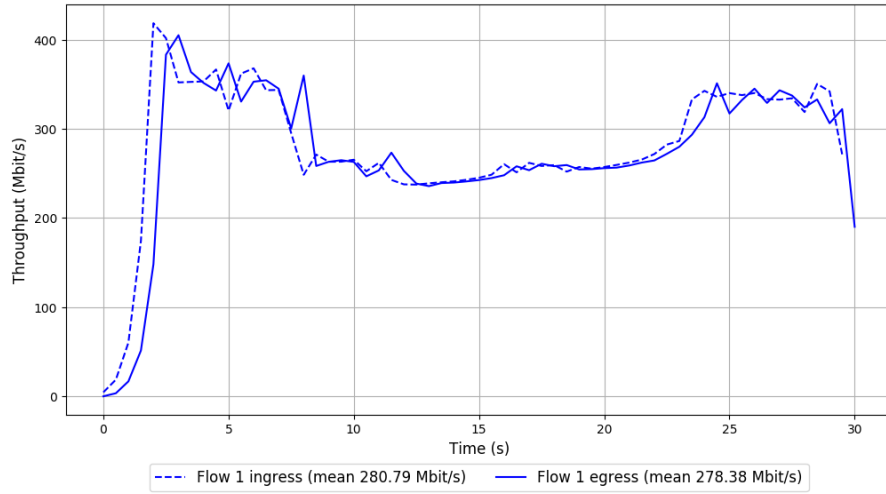


Run 5: Statistics of PCC-Expr

Start at: 2019-06-27 13:27:38  
End at: 2019-06-27 13:28:08  
Local clock offset: -0.027 ms  
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2019-06-27 15:28:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 278.38 Mbit/s  
95th percentile per-packet one-way delay: 135.990 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 278.38 Mbit/s  
95th percentile per-packet one-way delay: 135.990 ms  
Loss rate: 1.28%

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



Run 1: Statistics of QUIC Cubic

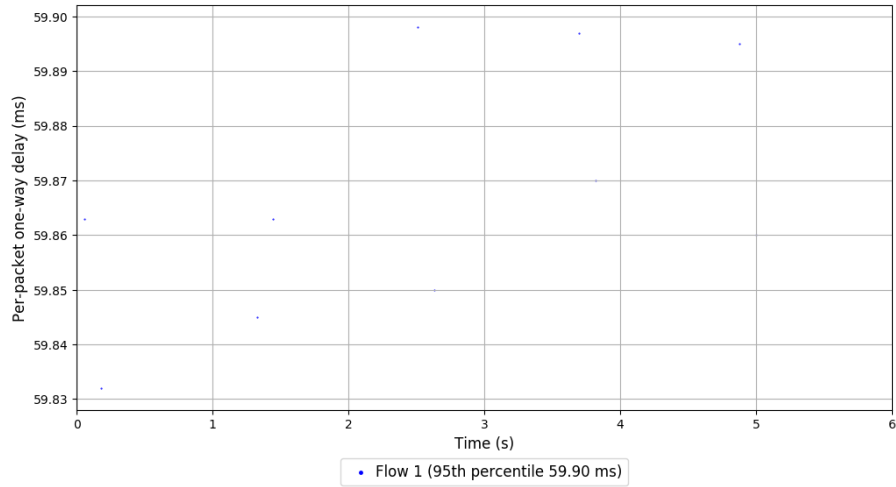
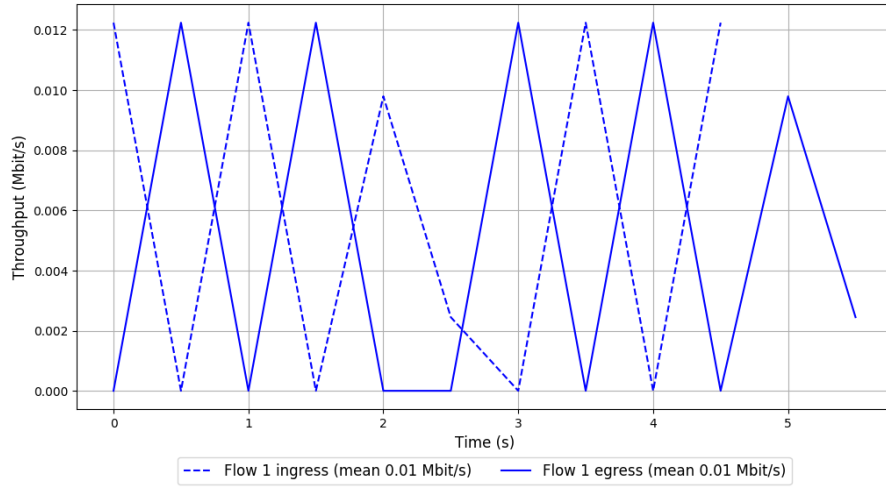
Start at: 2019-06-27 11:25:15

End at: 2019-06-27 11:25:45

Local clock offset: 0.012 ms

Remote clock offset: -0.115 ms

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-06-27 11:56:42

End at: 2019-06-27 11:57:12

Local clock offset: -0.117 ms

Remote clock offset: -0.81 ms

# Below is generated by plot.py at 2019-06-27 15:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 64.337 ms

Loss rate: 0.63%

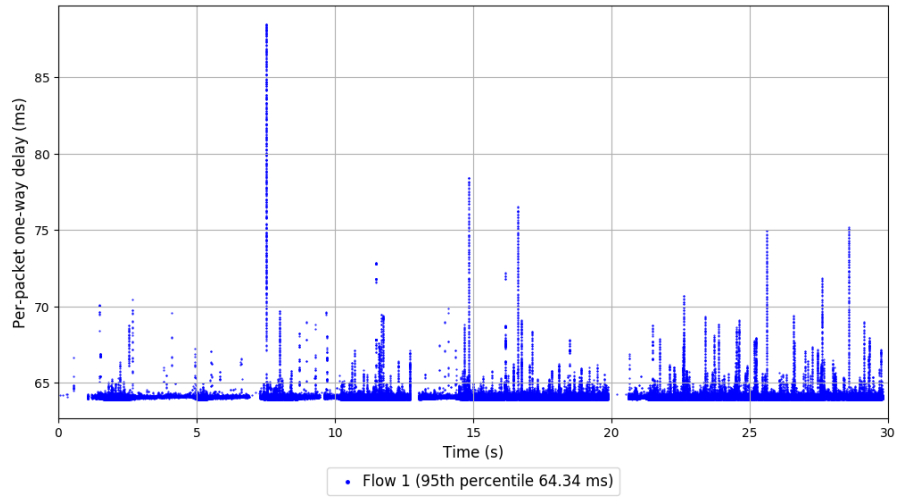
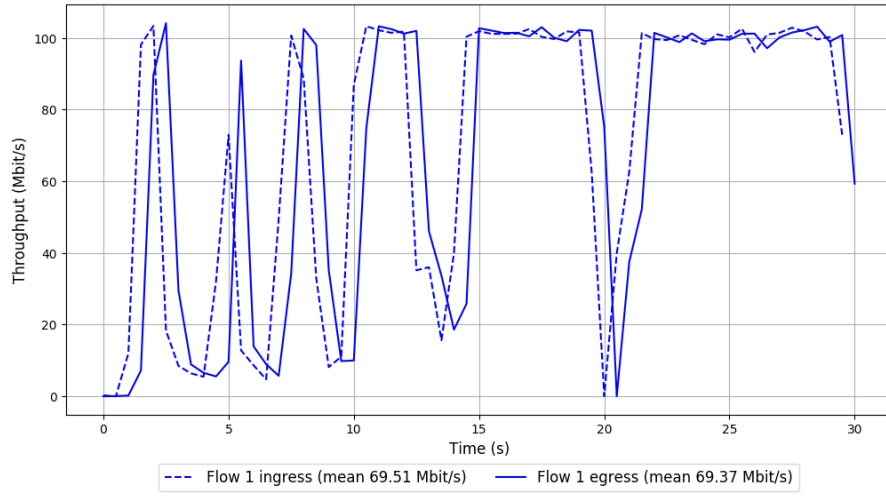
-- Flow 1:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 64.337 ms

Loss rate: 0.63%

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





Run 3: Statistics of QUIC Cubic

Start at: 2019-06-27 12:27:58

End at: 2019-06-27 12:28:28

Local clock offset: -0.016 ms

Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-06-27 15:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 63.305 ms

Loss rate: 0.61%

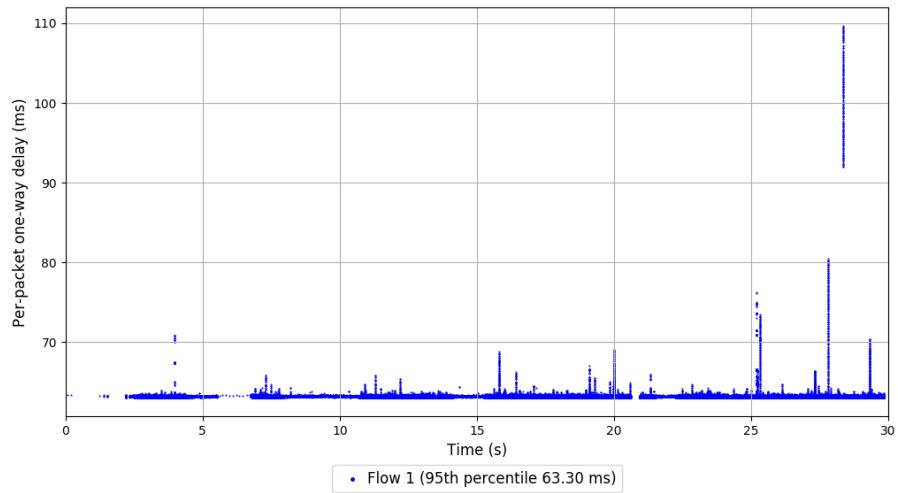
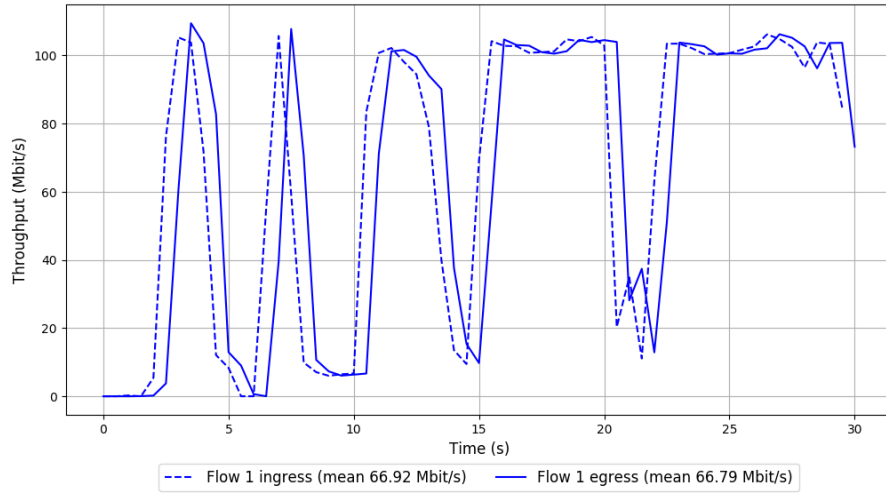
-- Flow 1:

Average throughput: 66.79 Mbit/s

95th percentile per-packet one-way delay: 63.305 ms

Loss rate: 0.61%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-06-27 12:59:34

End at: 2019-06-27 13:00:04

Local clock offset: 0.002 ms

Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-06-27 15:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 60.326 ms

Loss rate: 0.66%

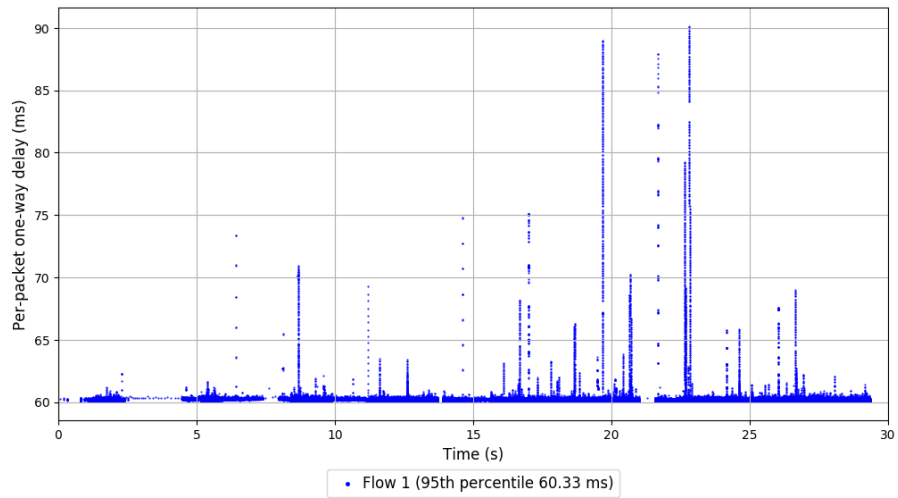
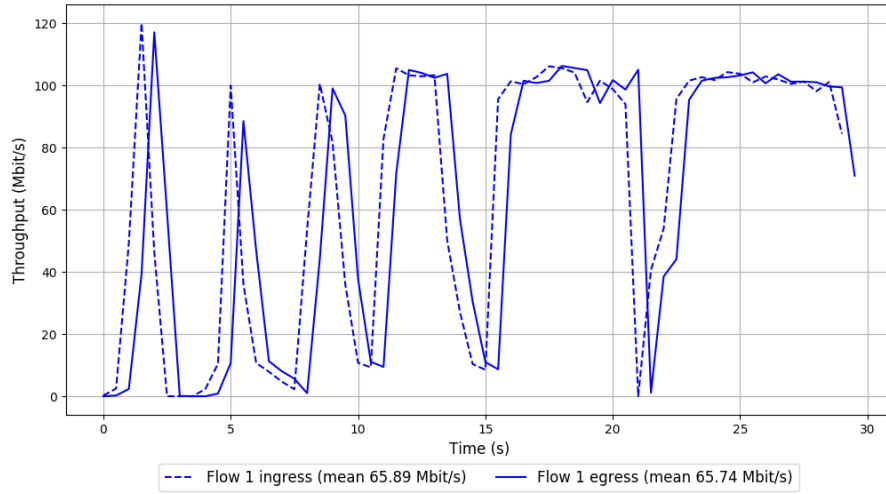
-- Flow 1:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 60.326 ms

Loss rate: 0.66%

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

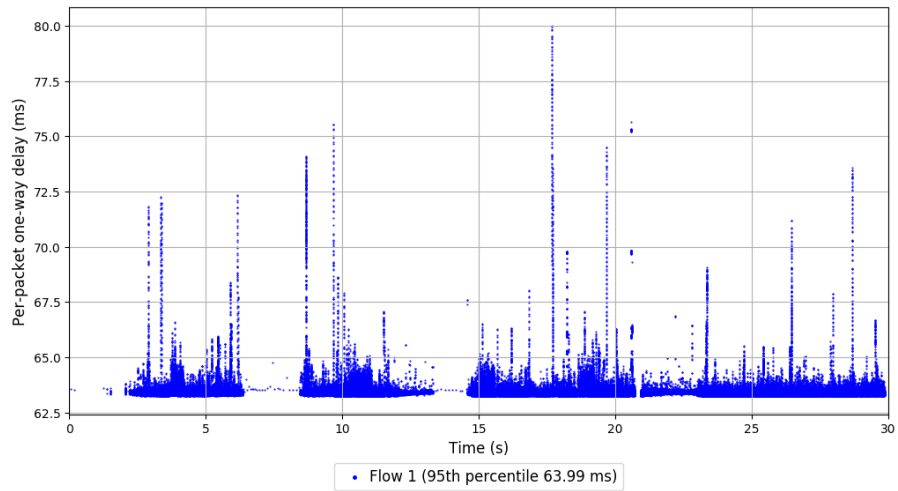
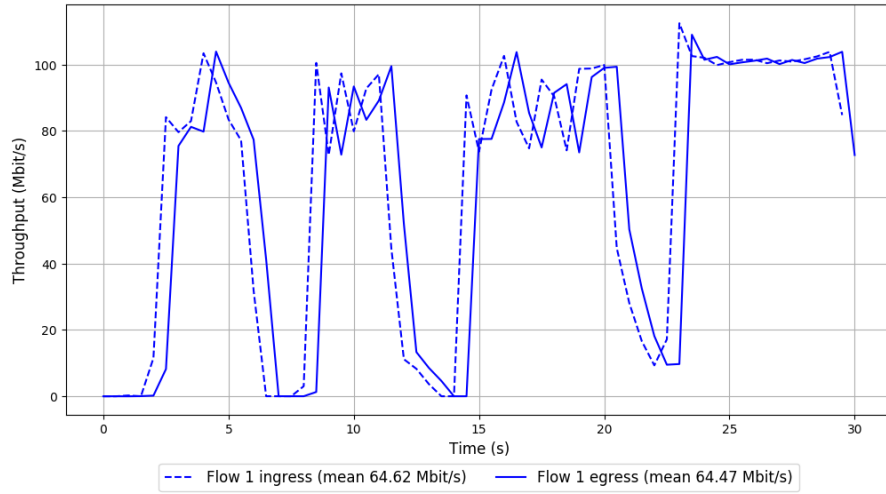


Run 5: Statistics of QUIC Cubic

Start at: 2019-06-27 13:30:40  
End at: 2019-06-27 13:31:10  
Local clock offset: -0.015 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-06-27 15:28:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 64.47 Mbit/s  
95th percentile per-packet one-way delay: 63.987 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 64.47 Mbit/s  
95th percentile per-packet one-way delay: 63.987 ms  
Loss rate: 0.65%

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



Run 1: Statistics of SCReAM

Start at: 2019-06-27 11:34:08

End at: 2019-06-27 11:34:38

Local clock offset: 0.046 ms

Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-06-27 15:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.330 ms

Loss rate: 0.38%

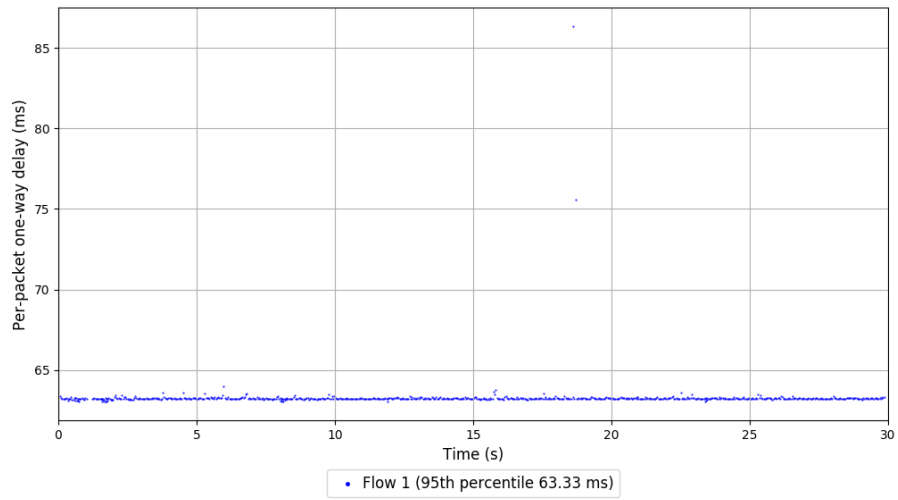
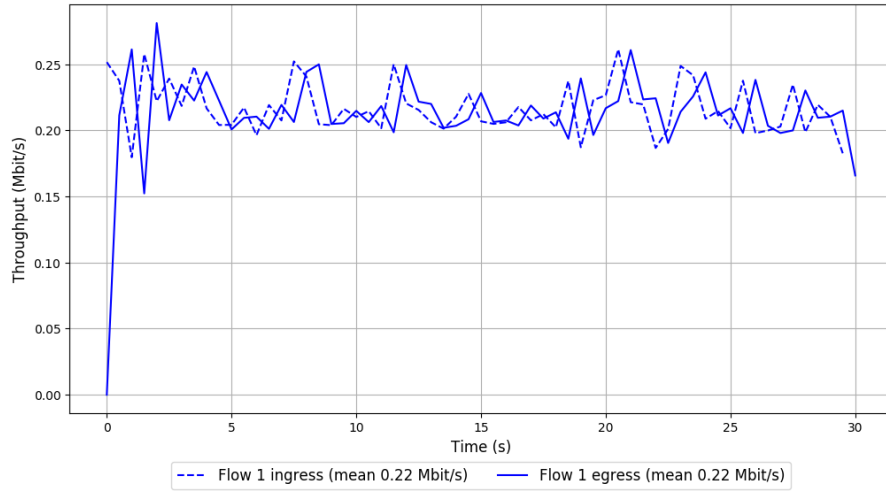
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.330 ms

Loss rate: 0.38%

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



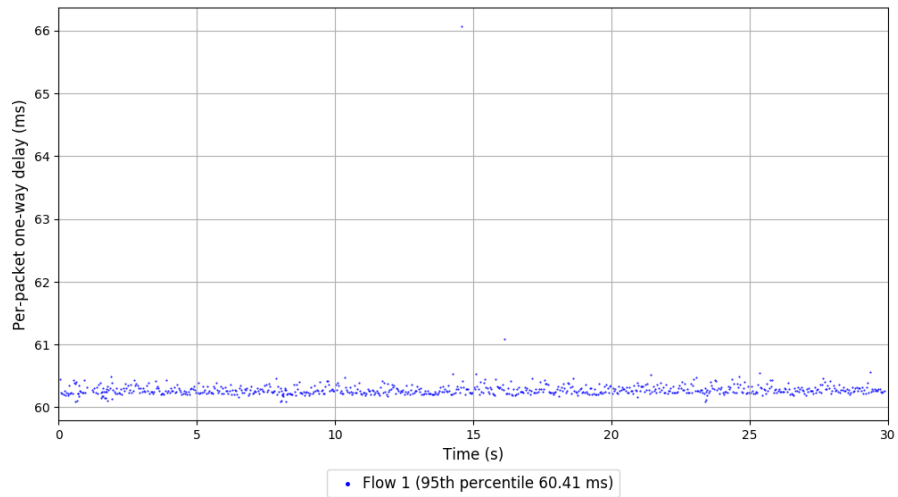
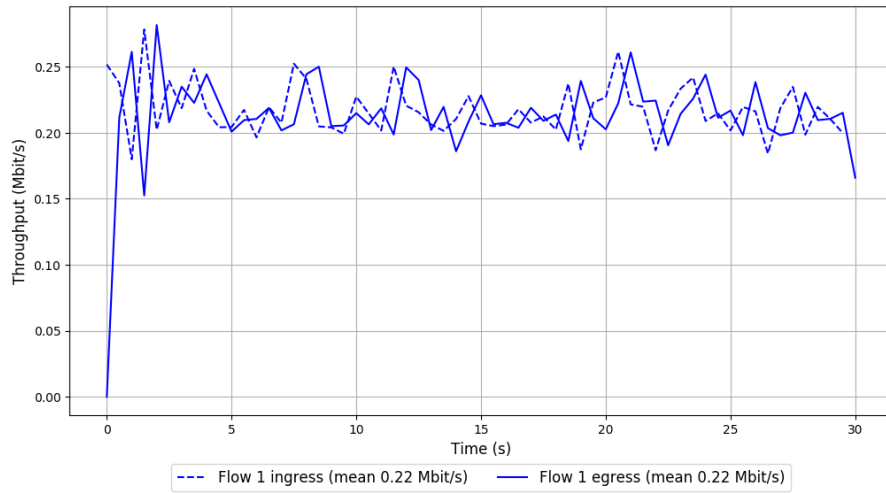


Run 2: Statistics of SCReAM

Start at: 2019-06-27 12:05:42  
End at: 2019-06-27 12:06:12  
Local clock offset: -0.135 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-06-27 15:28:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.408 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.408 ms  
Loss rate: 0.51%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-06-27 12:36:55

End at: 2019-06-27 12:37:25

Local clock offset: -0.015 ms

Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2019-06-27 15:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.017 ms

Loss rate: 0.38%

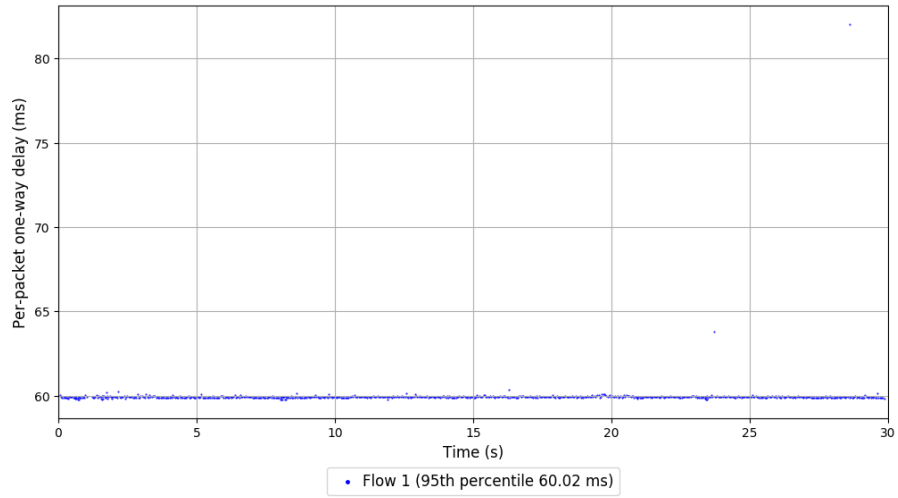
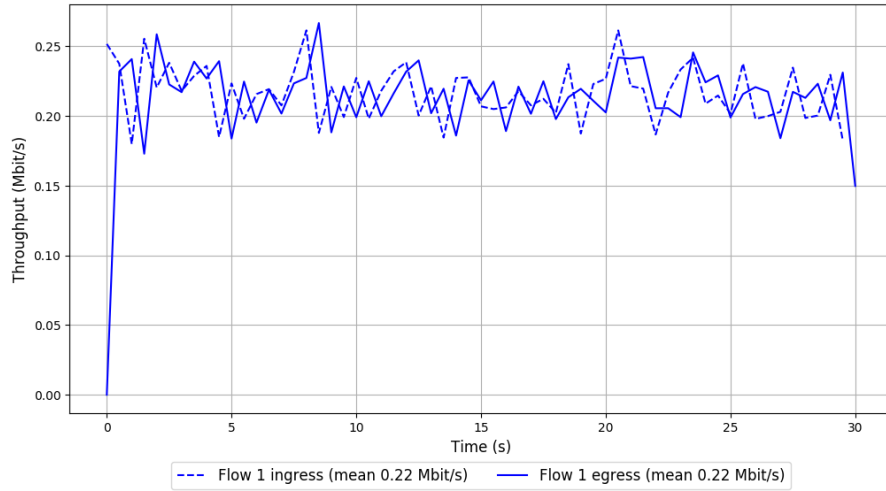
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.017 ms

Loss rate: 0.38%

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

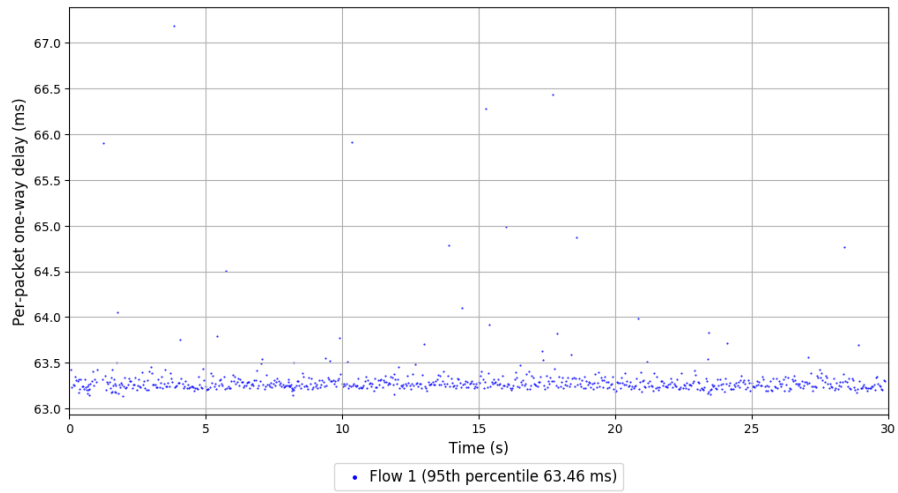
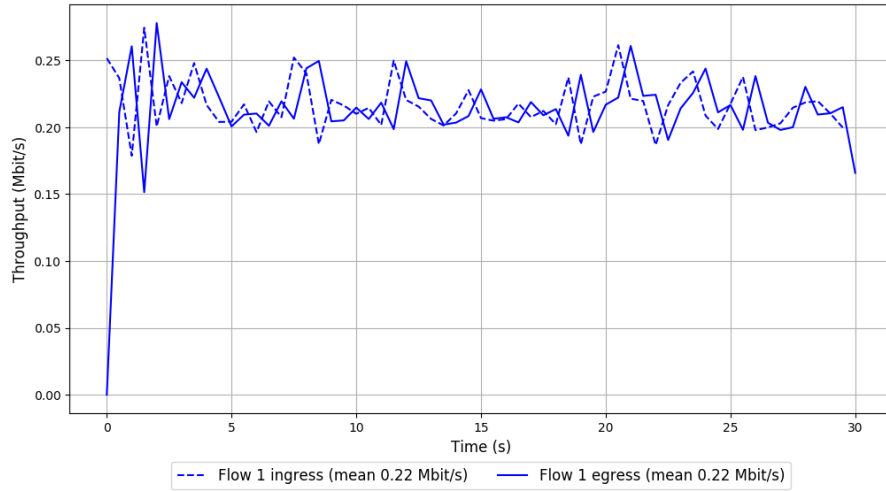


Run 4: Statistics of SCReAM

Start at: 2019-06-27 13:08:06  
End at: 2019-06-27 13:08:36  
Local clock offset: -0.033 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-06-27 15:28:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.457 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.457 ms  
Loss rate: 0.51%

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



Run 5: Statistics of SCReAM

Start at: 2019-06-27 13:39:40

End at: 2019-06-27 13:40:10

Local clock offset: -0.02 ms

Remote clock offset: 0.485 ms

# Below is generated by plot.py at 2019-06-27 15:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.037 ms

Loss rate: 0.51%

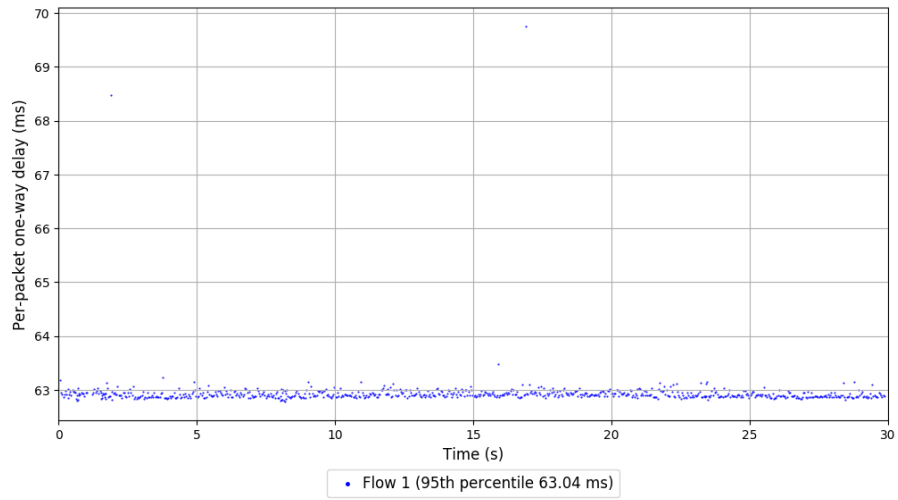
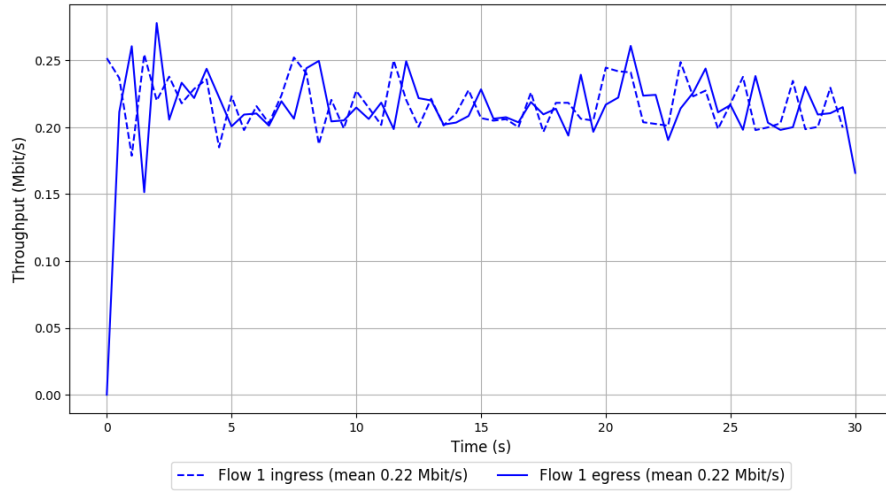
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.037 ms

Loss rate: 0.51%

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



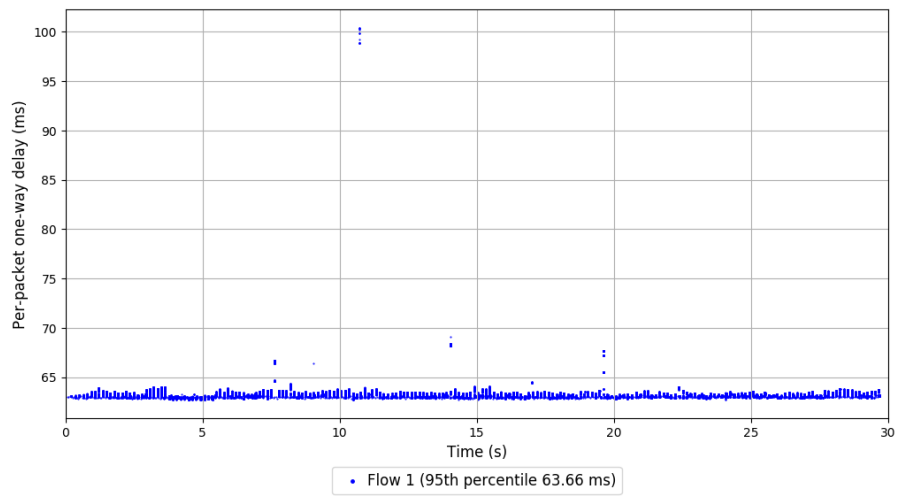
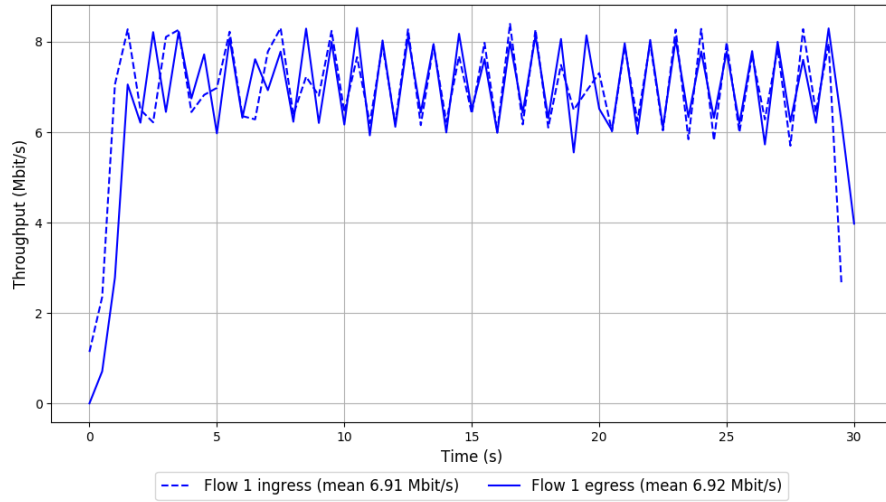


Run 1: Statistics of Sprout

Start at: 2019-06-27 11:38:16  
End at: 2019-06-27 11:38:46  
Local clock offset: 0.008 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-06-27 15:28:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.92 Mbit/s  
95th percentile per-packet one-way delay: 63.658 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 6.92 Mbit/s  
95th percentile per-packet one-way delay: 63.658 ms  
Loss rate: 0.15%

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

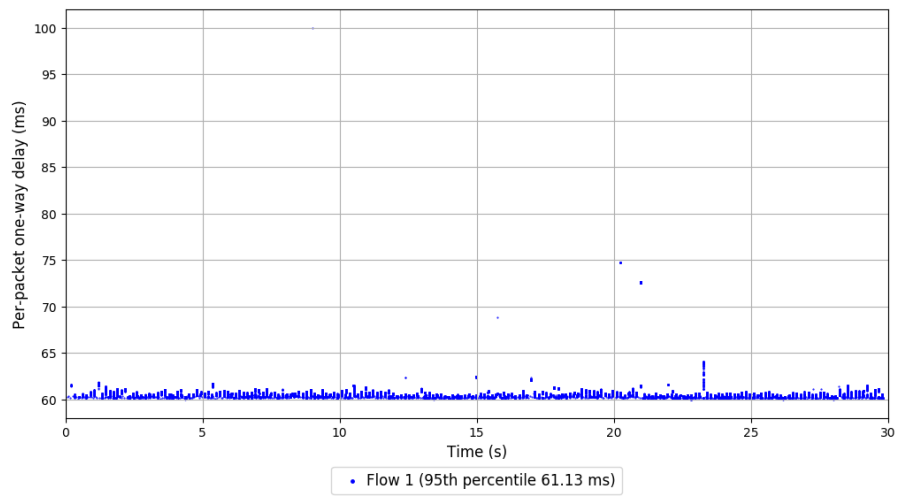
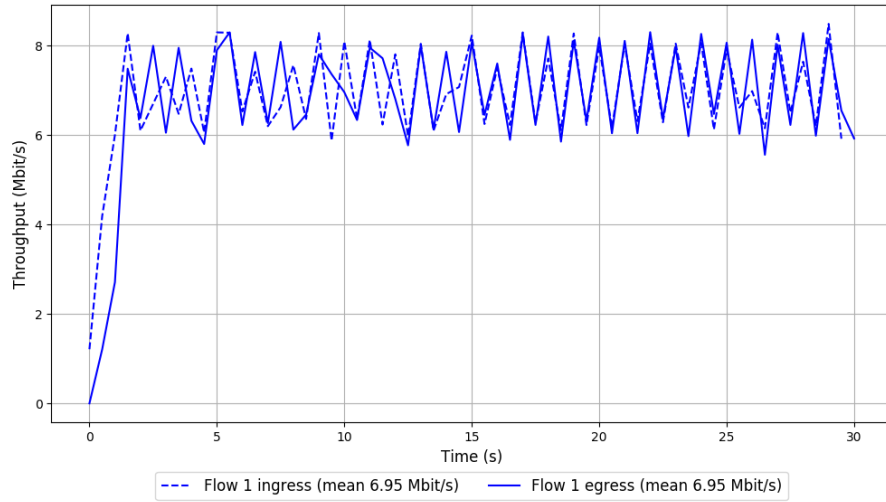


Run 2: Statistics of Sprout

Start at: 2019-06-27 12:09:48  
End at: 2019-06-27 12:10:18  
Local clock offset: -0.126 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-06-27 15:28:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.95 Mbit/s  
95th percentile per-packet one-way delay: 61.134 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 6.95 Mbit/s  
95th percentile per-packet one-way delay: 61.134 ms  
Loss rate: 0.47%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-06-27 12:41:05

End at: 2019-06-27 12:41:35

Local clock offset: -0.034 ms

Remote clock offset: 0.37 ms

# Below is generated by plot.py at 2019-06-27 15:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 63.744 ms

Loss rate: 0.50%

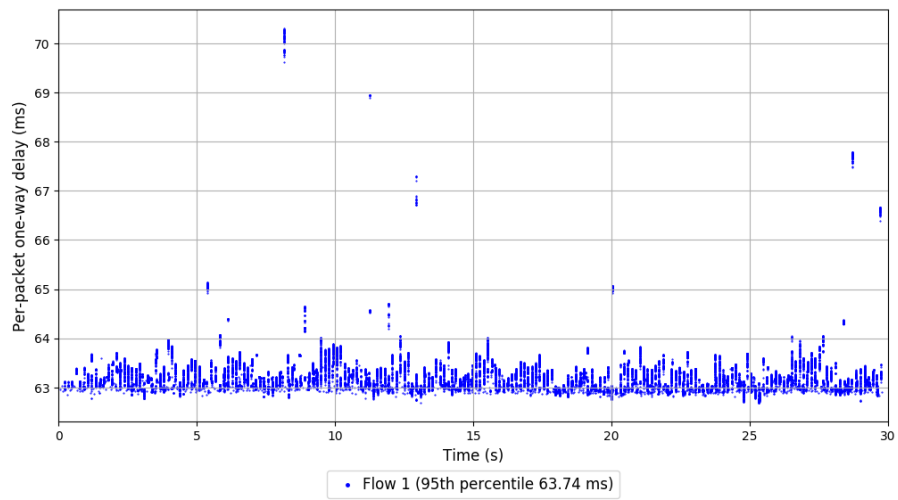
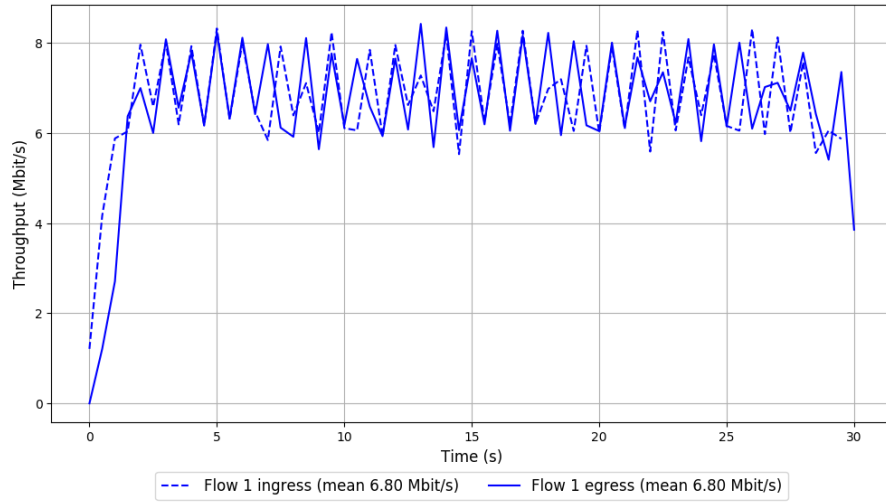
-- Flow 1:

Average throughput: 6.80 Mbit/s

95th percentile per-packet one-way delay: 63.744 ms

Loss rate: 0.50%

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



Run 4: Statistics of Sprout

Start at: 2019-06-27 13:12:13

End at: 2019-06-27 13:12:43

Local clock offset: -0.004 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-06-27 15:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.79 Mbit/s

95th percentile per-packet one-way delay: 63.985 ms

Loss rate: 0.45%

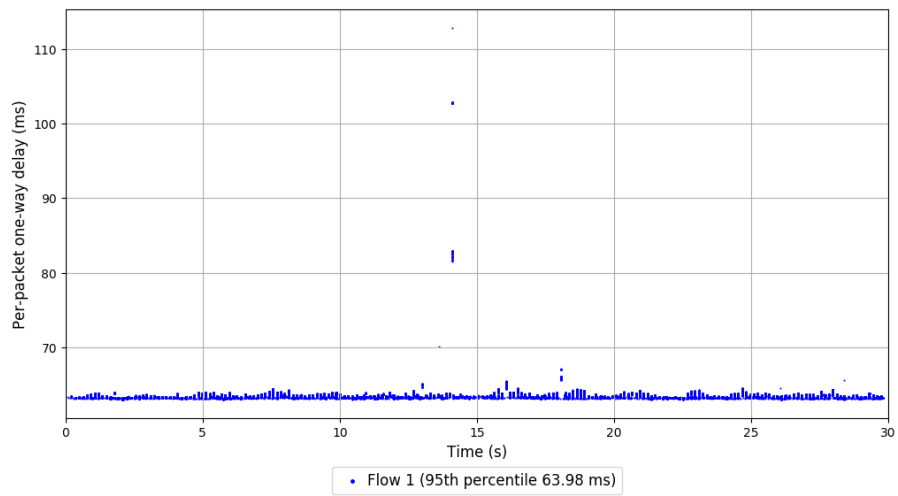
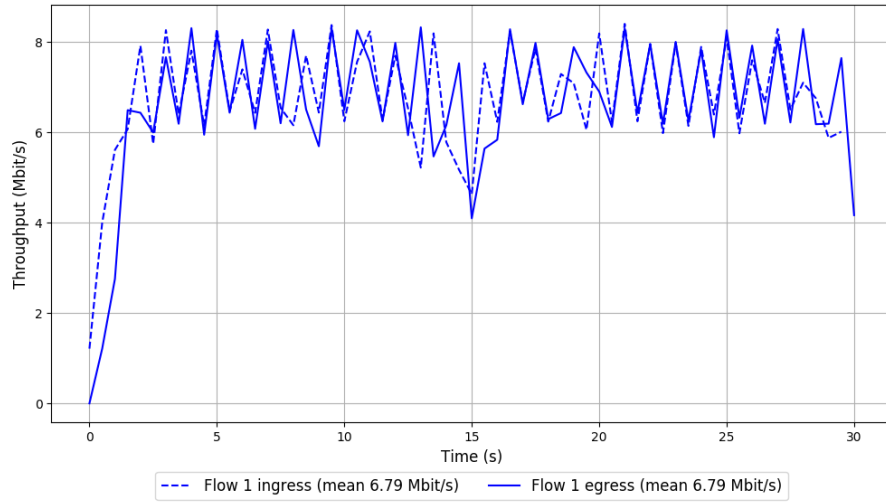
-- Flow 1:

Average throughput: 6.79 Mbit/s

95th percentile per-packet one-way delay: 63.985 ms

Loss rate: 0.45%

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



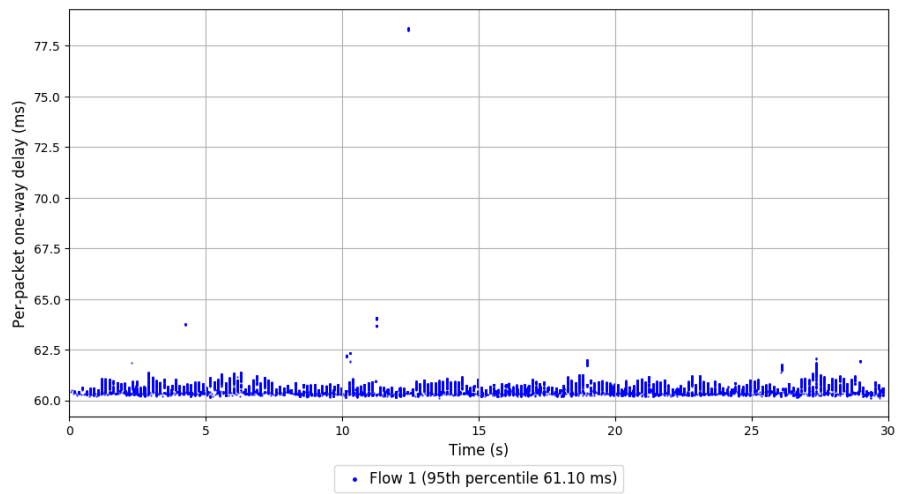
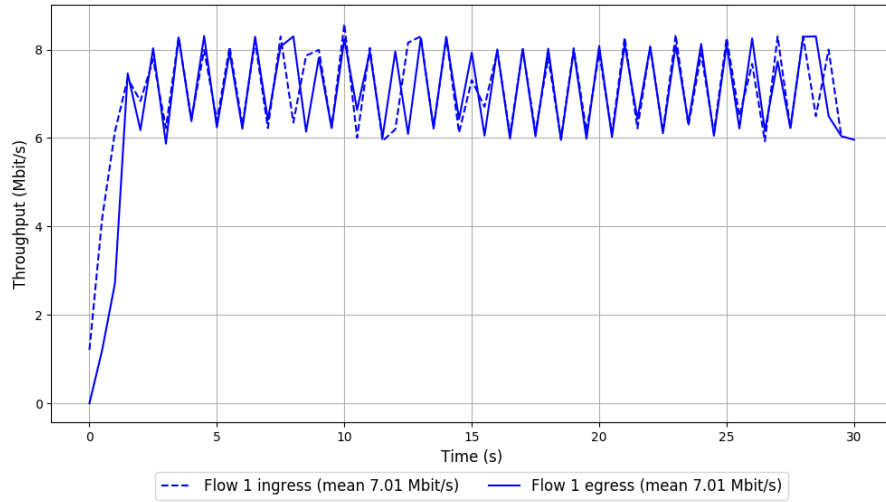


Run 5: Statistics of Sprout

Start at: 2019-06-27 13:43:44  
End at: 2019-06-27 13:44:14  
Local clock offset: -0.047 ms  
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2019-06-27 15:28:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.01 Mbit/s  
95th percentile per-packet one-way delay: 61.103 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 7.01 Mbit/s  
95th percentile per-packet one-way delay: 61.103 ms  
Loss rate: 0.48%

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



Run 1: Statistics of TaoVA-100x

Start at: 2019-06-27 11:40:59

End at: 2019-06-27 11:41:29

Local clock offset: -0.003 ms

Remote clock offset: 0.699 ms

# Below is generated by plot.py at 2019-06-27 15:29:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 220.91 Mbit/s

95th percentile per-packet one-way delay: 63.112 ms

Loss rate: 0.42%

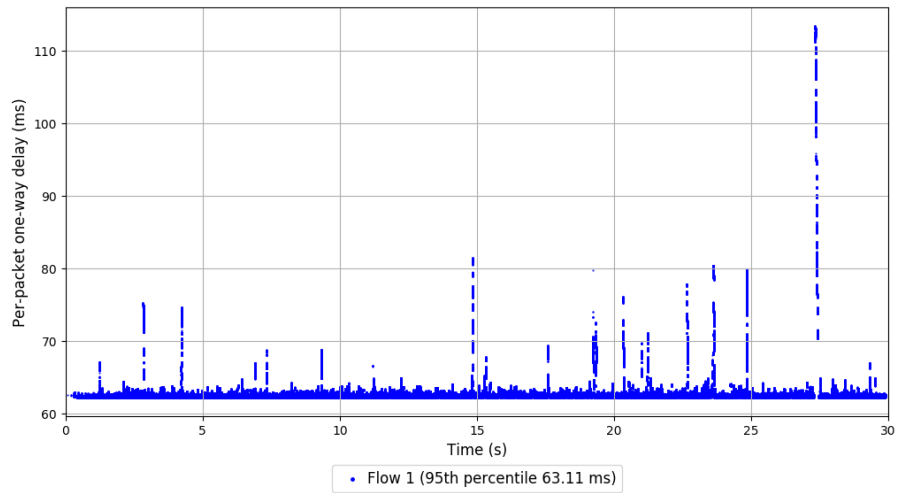
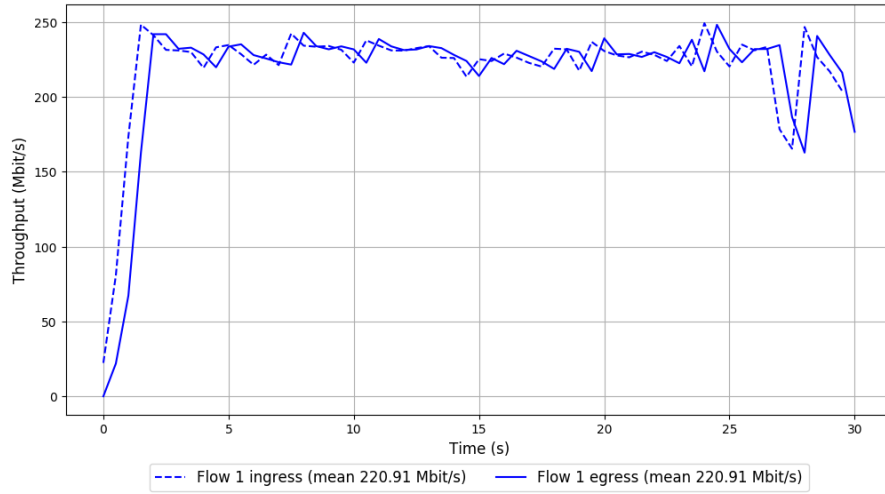
-- Flow 1:

Average throughput: 220.91 Mbit/s

95th percentile per-packet one-way delay: 63.112 ms

Loss rate: 0.42%

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

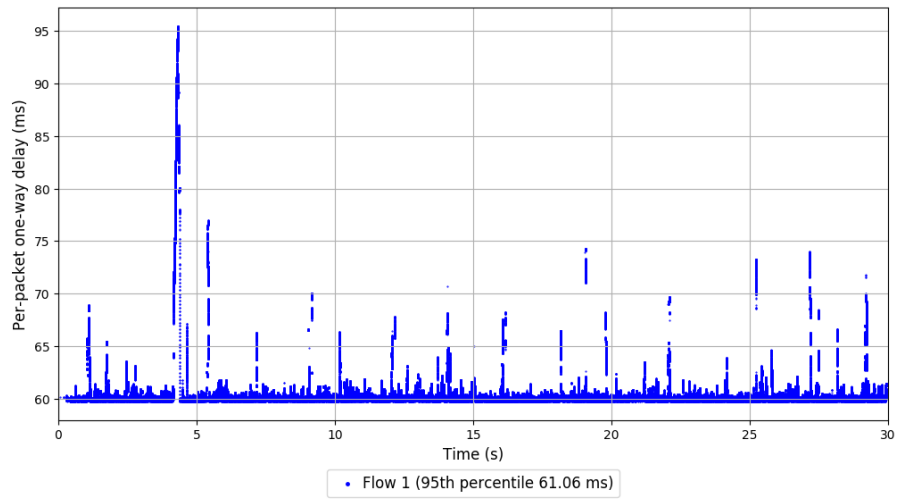
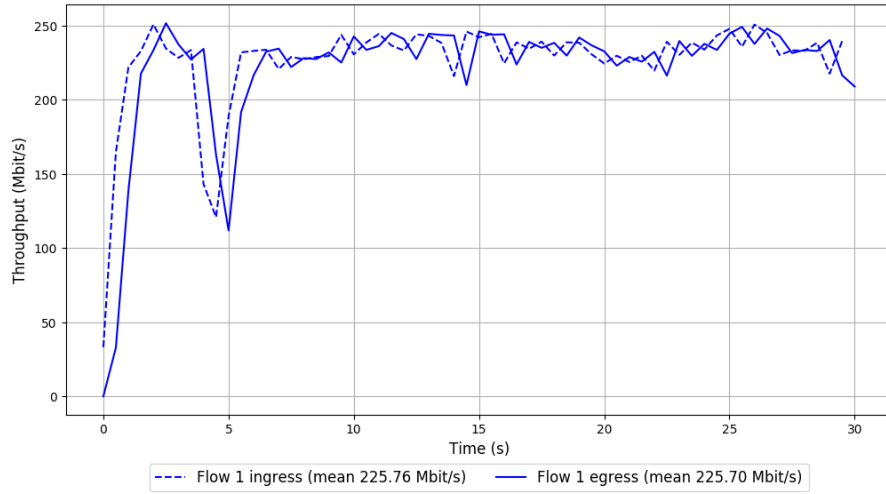


Run 2: Statistics of TaoVA-100x

Start at: 2019-06-27 12:12:32  
End at: 2019-06-27 12:13:02  
Local clock offset: -0.137 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2019-06-27 15:29:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 225.70 Mbit/s  
95th percentile per-packet one-way delay: 61.060 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 225.70 Mbit/s  
95th percentile per-packet one-way delay: 61.060 ms  
Loss rate: 0.44%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-06-27 12:43:47

End at: 2019-06-27 12:44:17

Local clock offset: -0.014 ms

Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2019-06-27 15:29:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.89 Mbit/s

95th percentile per-packet one-way delay: 63.975 ms

Loss rate: 0.47%

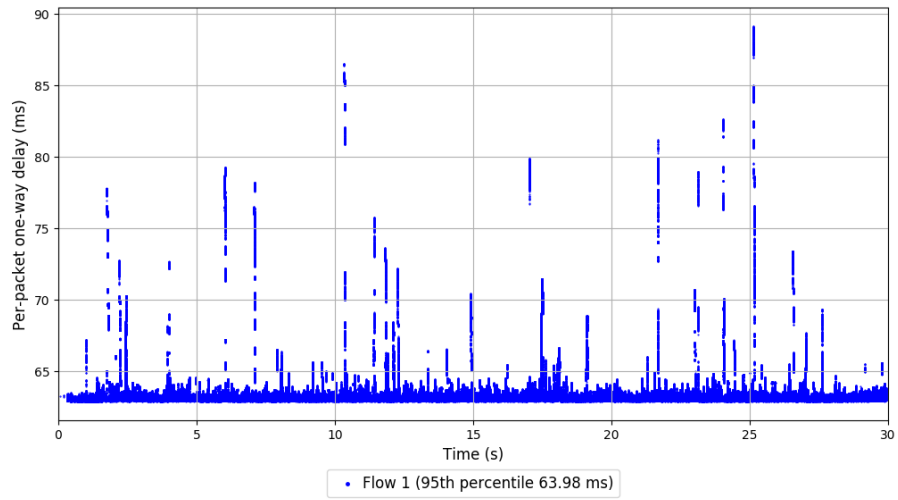
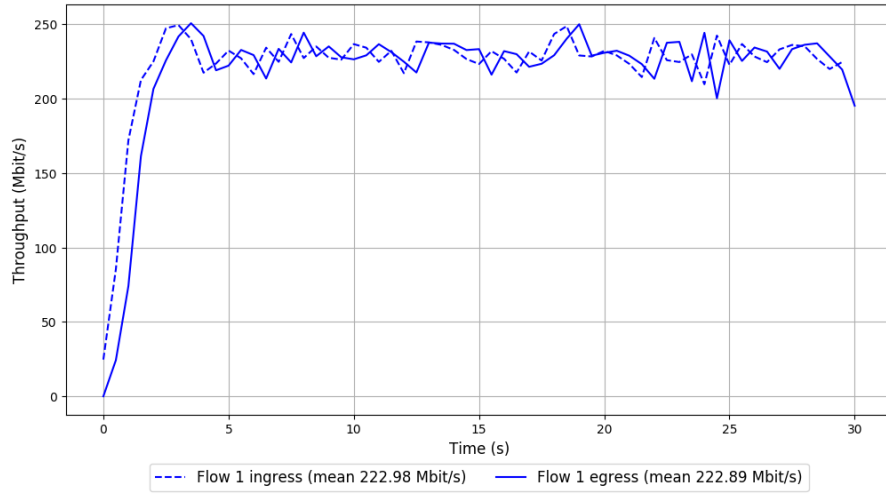
-- Flow 1:

Average throughput: 222.89 Mbit/s

95th percentile per-packet one-way delay: 63.975 ms

Loss rate: 0.47%

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





Run 4: Statistics of TaoVA-100x

Start at: 2019-06-27 13:14:54

End at: 2019-06-27 13:15:24

Local clock offset: -0.005 ms

Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2019-06-27 15:29:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.04 Mbit/s

95th percentile per-packet one-way delay: 60.822 ms

Loss rate: 0.47%

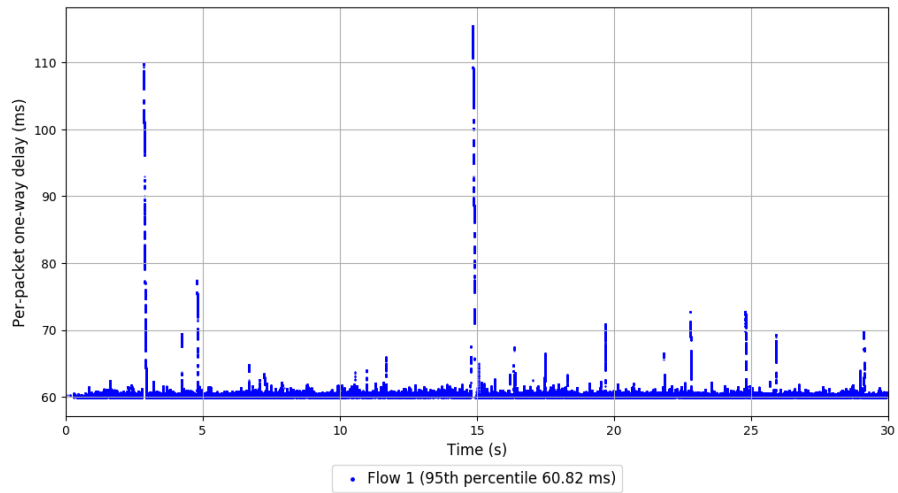
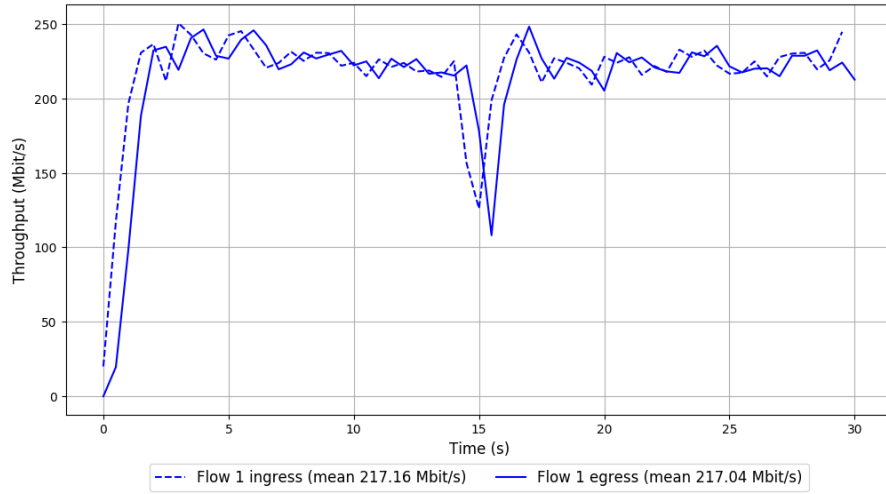
-- Flow 1:

Average throughput: 217.04 Mbit/s

95th percentile per-packet one-way delay: 60.822 ms

Loss rate: 0.47%

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

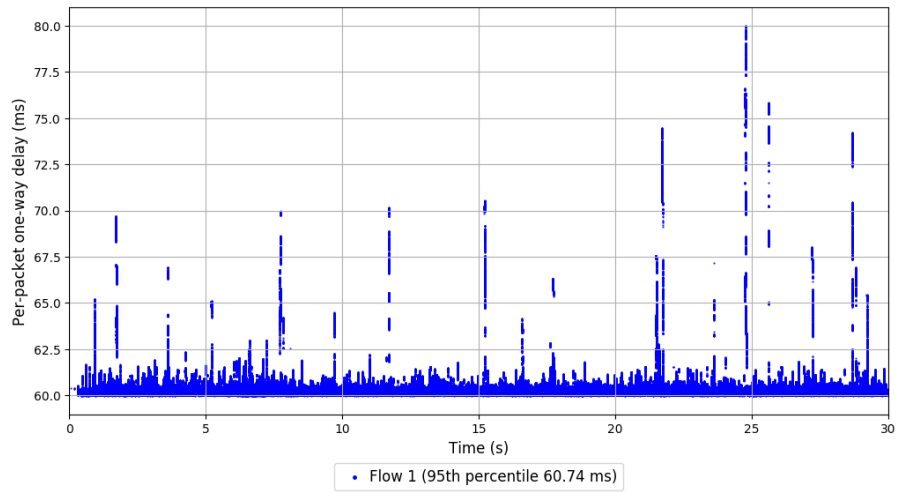
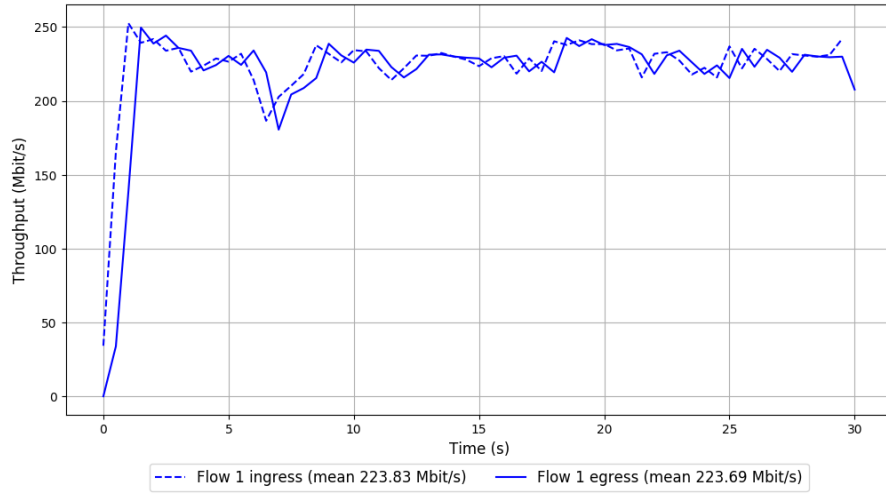


Run 5: Statistics of TaoVA-100x

Start at: 2019-06-27 13:46:27  
End at: 2019-06-27 13:46:57  
Local clock offset: -0.034 ms  
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-06-27 15:30:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 223.69 Mbit/s  
95th percentile per-packet one-way delay: 60.744 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 223.69 Mbit/s  
95th percentile per-packet one-way delay: 60.744 ms  
Loss rate: 0.48%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-06-27 11:30:57  
End at: 2019-06-27 11:31:27  
Local clock offset: 0.051 ms  
Remote clock offset: -0.492 ms

# Below is generated by plot.py at 2019-06-27 15:32:54

# Datalink statistics

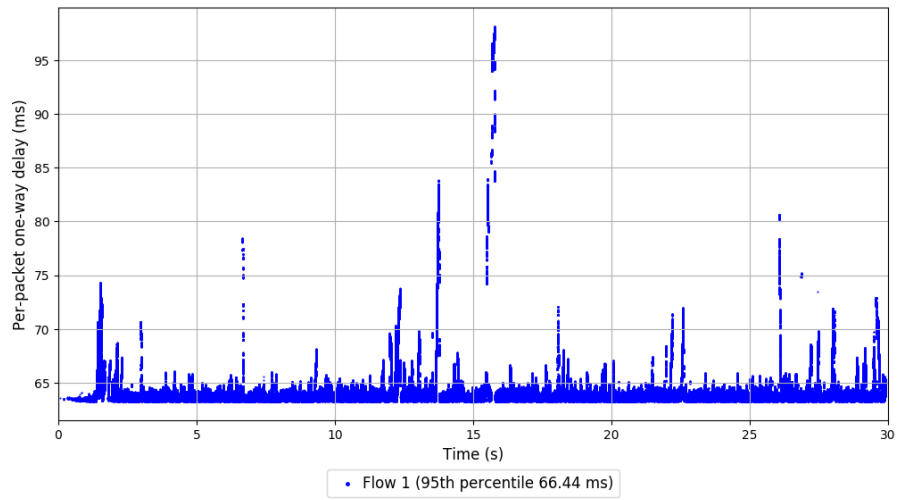
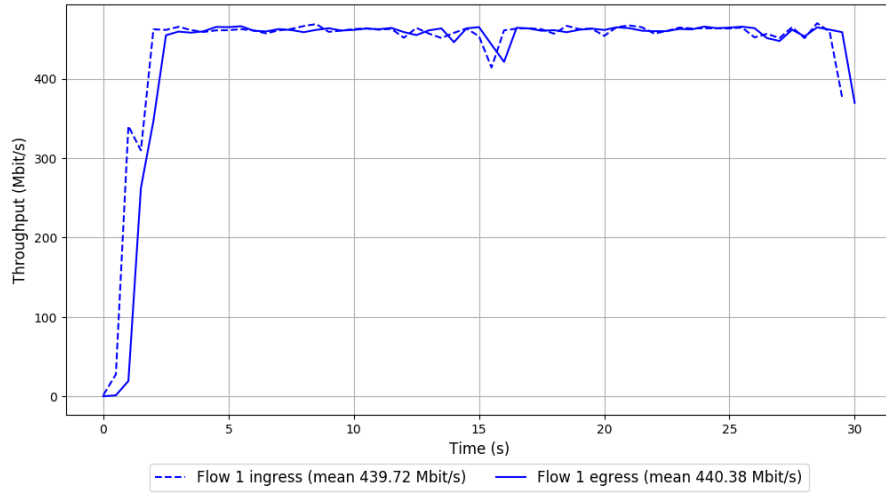
-- Total of 1 flow:

Average throughput: 440.38 Mbit/s  
95th percentile per-packet one-way delay: 66.437 ms  
Loss rate: 0.27%

-- Flow 1:

Average throughput: 440.38 Mbit/s  
95th percentile per-packet one-way delay: 66.437 ms  
Loss rate: 0.27%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-06-27 12:02:27  
End at: 2019-06-27 12:02:57  
Local clock offset: -0.145 ms  
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2019-06-27 15:34:40

# Datalink statistics

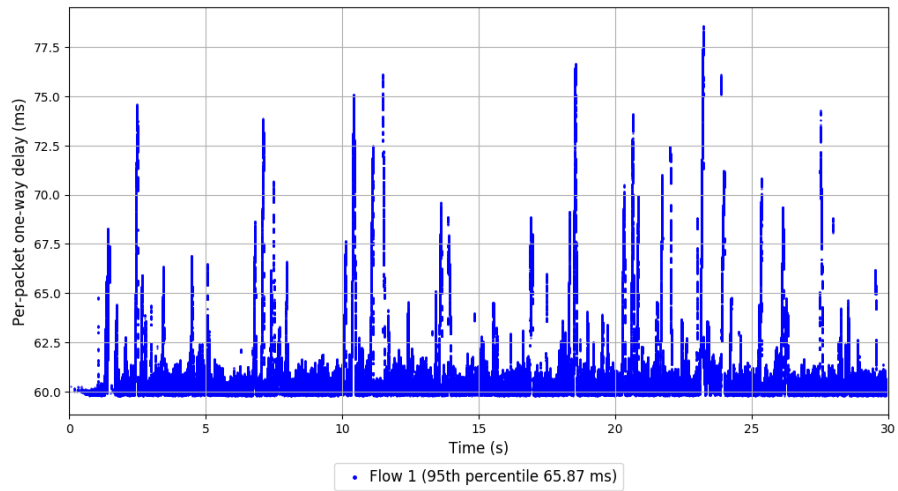
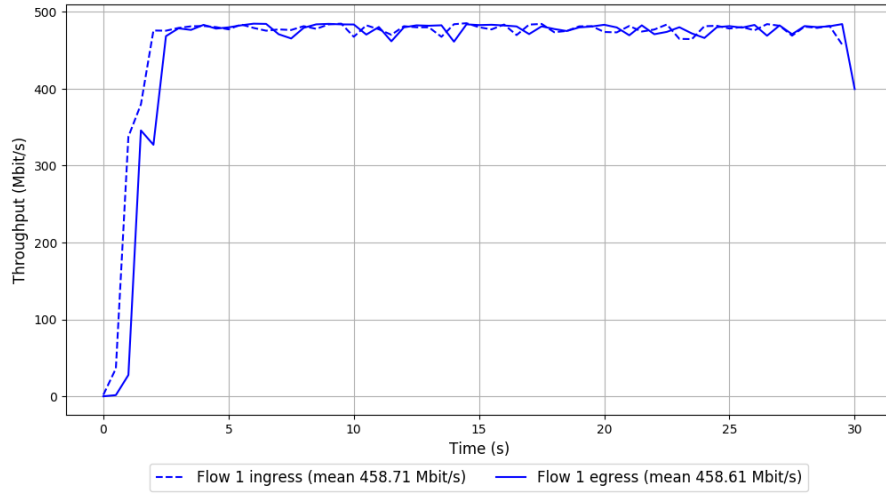
-- Total of 1 flow:

Average throughput: 458.61 Mbit/s  
95th percentile per-packet one-way delay: 65.871 ms  
Loss rate: 0.42%

-- Flow 1:

Average throughput: 458.61 Mbit/s  
95th percentile per-packet one-way delay: 65.871 ms  
Loss rate: 0.42%

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





Run 3: Statistics of TCP Vegas

Start at: 2019-06-27 12:33:44

End at: 2019-06-27 12:34:14

Local clock offset: -0.022 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-06-27 15:36:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 443.64 Mbit/s

95th percentile per-packet one-way delay: 69.558 ms

Loss rate: 0.42%

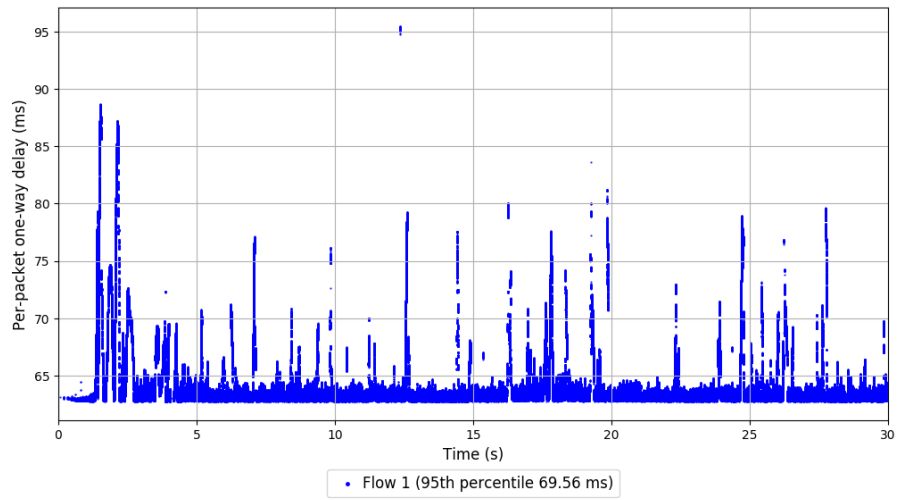
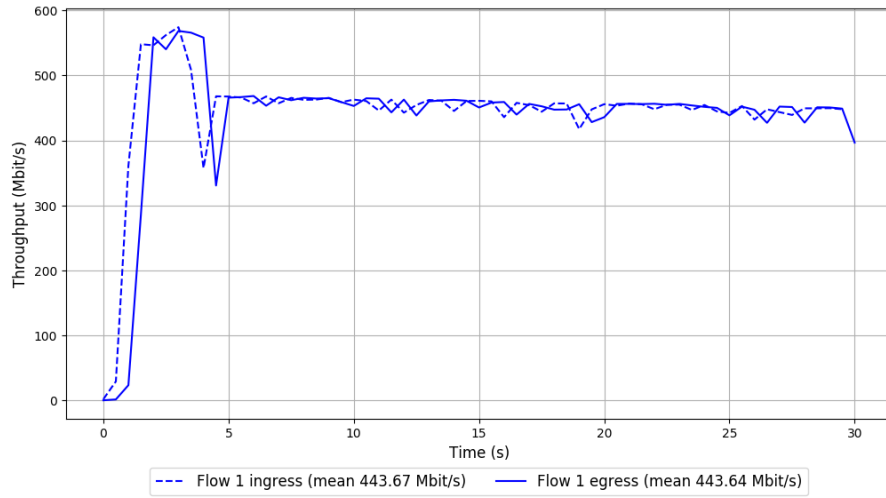
-- Flow 1:

Average throughput: 443.64 Mbit/s

95th percentile per-packet one-way delay: 69.558 ms

Loss rate: 0.42%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-06-27 13:05:02

End at: 2019-06-27 13:05:32

Local clock offset: 0.029 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-06-27 15:36:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 290.51 Mbit/s

95th percentile per-packet one-way delay: 67.706 ms

Loss rate: 0.34%

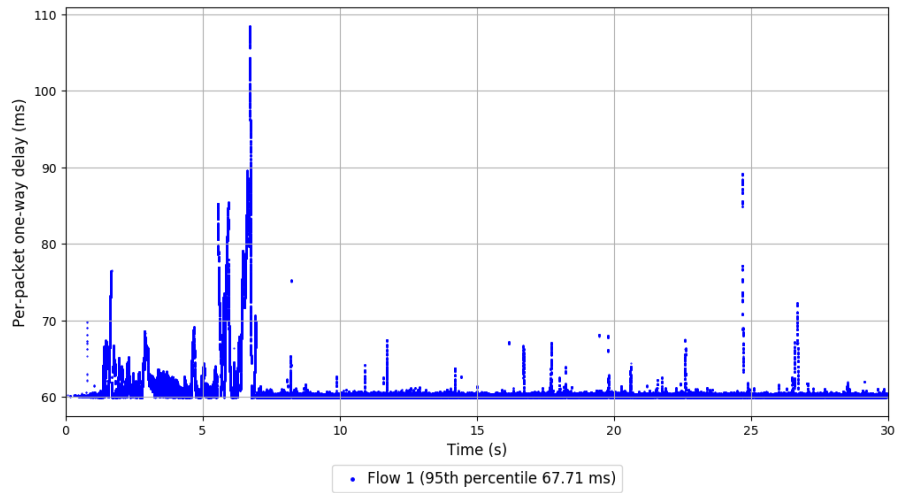
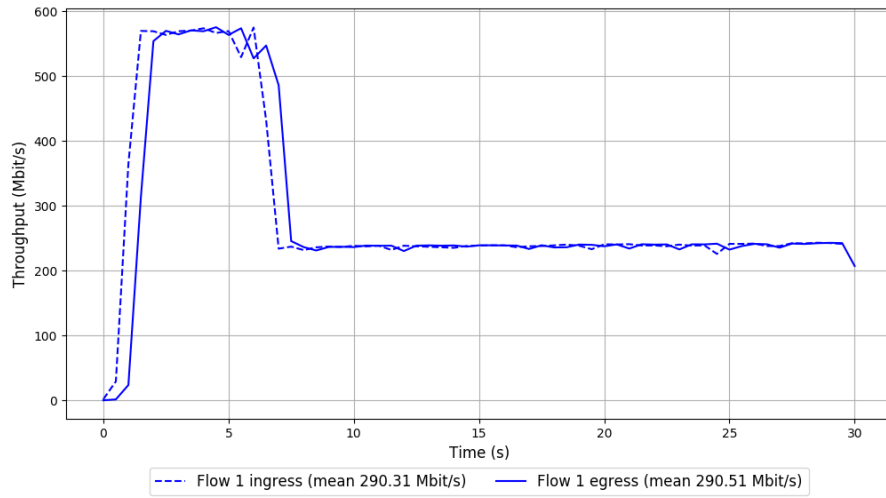
-- Flow 1:

Average throughput: 290.51 Mbit/s

95th percentile per-packet one-way delay: 67.706 ms

Loss rate: 0.34%

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

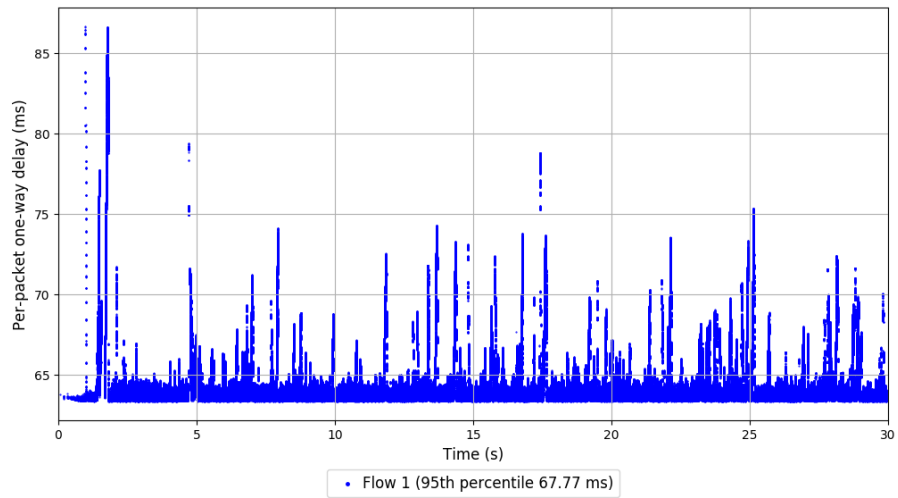
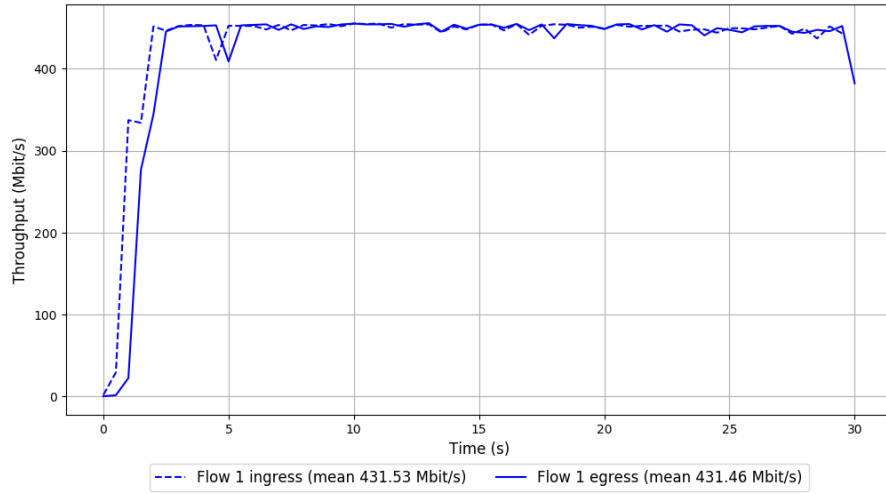


Run 5: Statistics of TCP Vegas

Start at: 2019-06-27 13:36:26  
End at: 2019-06-27 13:36:56  
Local clock offset: -0.03 ms  
Remote clock offset: -0.239 ms

```
# Below is generated by plot.py at 2019-06-27 15:37:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 431.46 Mbit/s
95th percentile per-packet one-way delay: 67.774 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 431.46 Mbit/s
95th percentile per-packet one-way delay: 67.774 ms
Loss rate: 0.43%
```

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

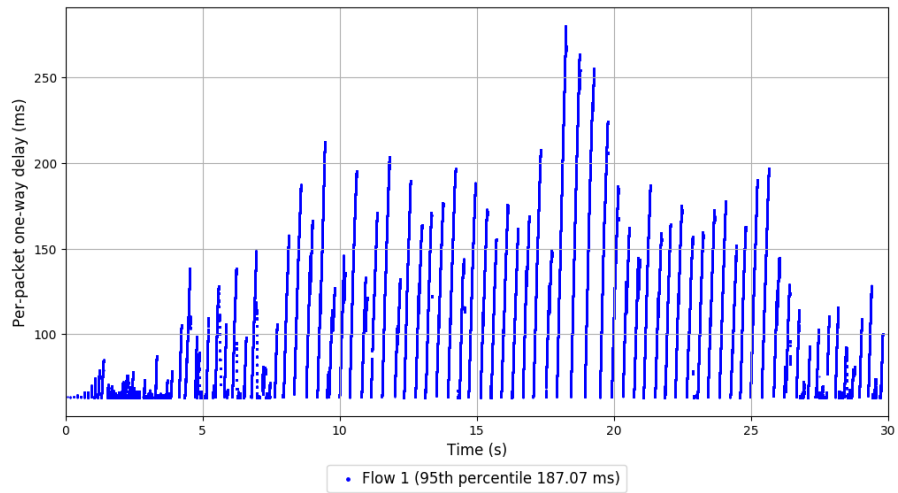
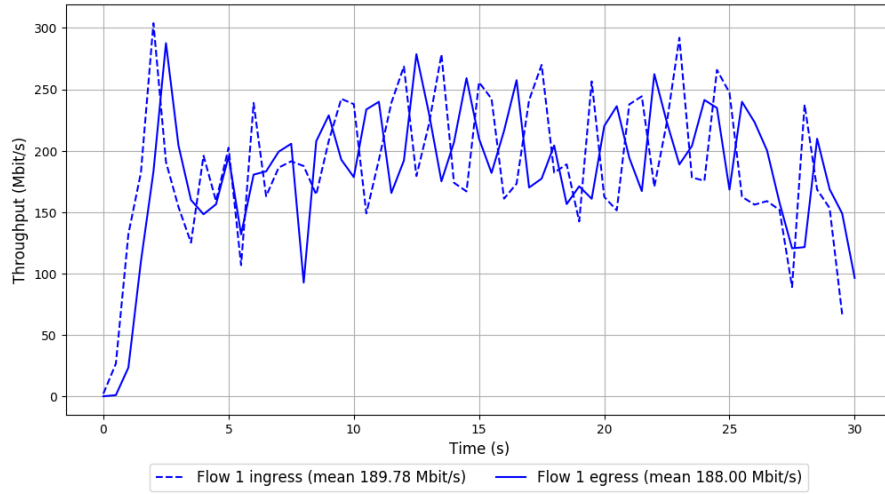


Run 1: Statistics of Verus

Start at: 2019-06-27 11:36:50  
End at: 2019-06-27 11:37:20  
Local clock offset: 0.038 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-06-27 15:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.00 Mbit/s  
95th percentile per-packet one-way delay: 187.072 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 188.00 Mbit/s  
95th percentile per-packet one-way delay: 187.072 ms  
Loss rate: 0.82%

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



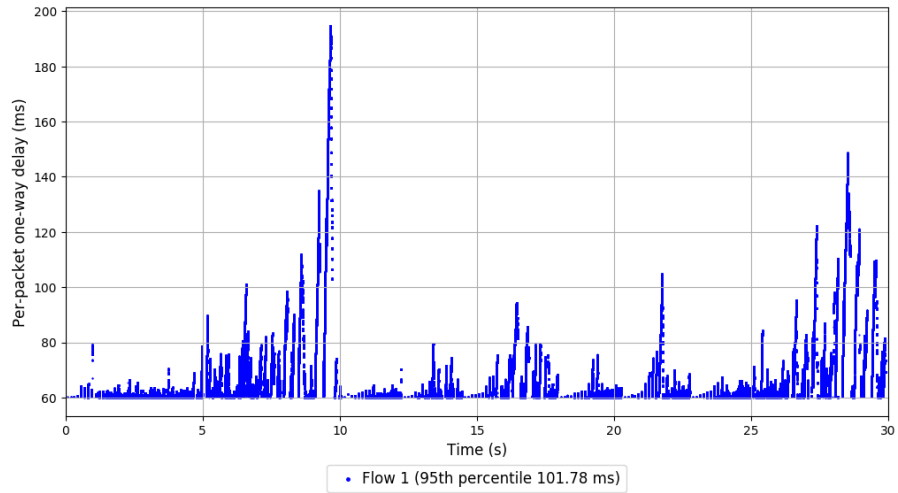
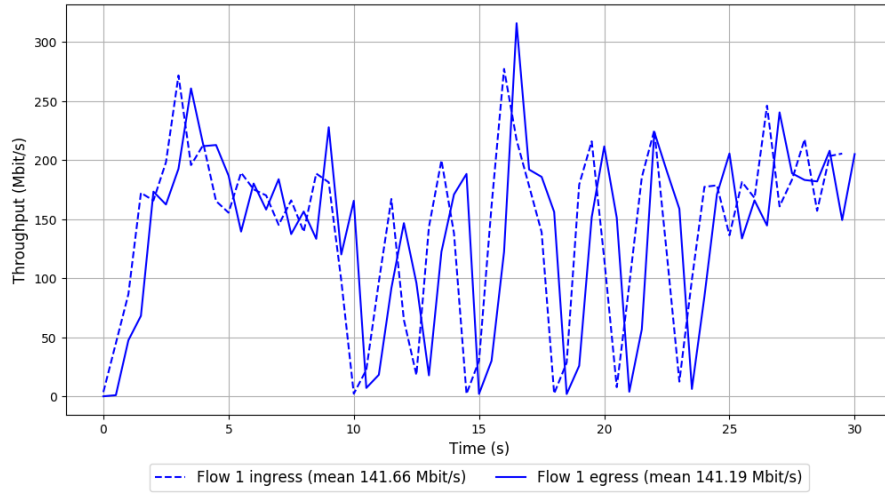


Run 2: Statistics of Verus

Start at: 2019-06-27 12:08:26  
End at: 2019-06-27 12:08:56  
Local clock offset: -0.141 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-06-27 15:37:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 141.19 Mbit/s  
95th percentile per-packet one-way delay: 101.783 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 141.19 Mbit/s  
95th percentile per-packet one-way delay: 101.783 ms  
Loss rate: 0.70%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-06-27 12:39:39

End at: 2019-06-27 12:40:09

Local clock offset: -0.021 ms

Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2019-06-27 15:37:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 194.69 Mbit/s

95th percentile per-packet one-way delay: 204.348 ms

Loss rate: 0.75%

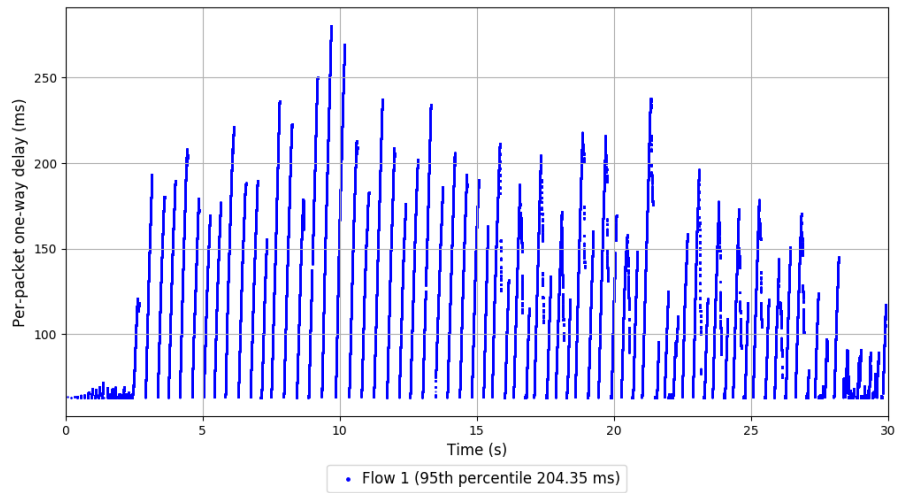
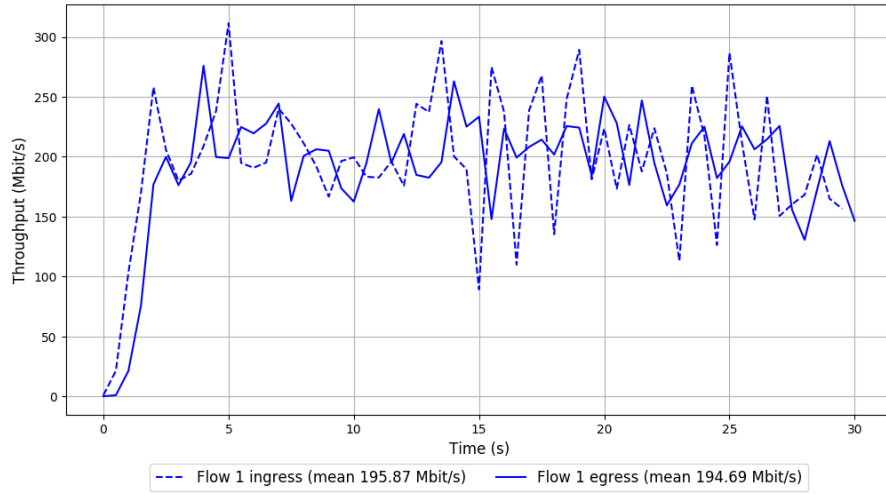
-- Flow 1:

Average throughput: 194.69 Mbit/s

95th percentile per-packet one-way delay: 204.348 ms

Loss rate: 0.75%

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



Run 4: Statistics of Verus

Start at: 2019-06-27 13:10:47

End at: 2019-06-27 13:11:17

Local clock offset: 0.009 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-06-27 15:39:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 178.98 Mbit/s

95th percentile per-packet one-way delay: 217.770 ms

Loss rate: 3.71%

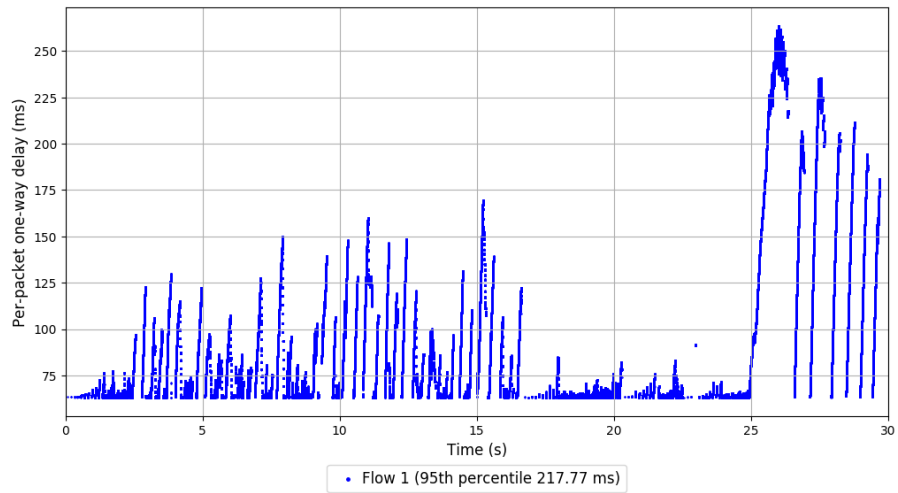
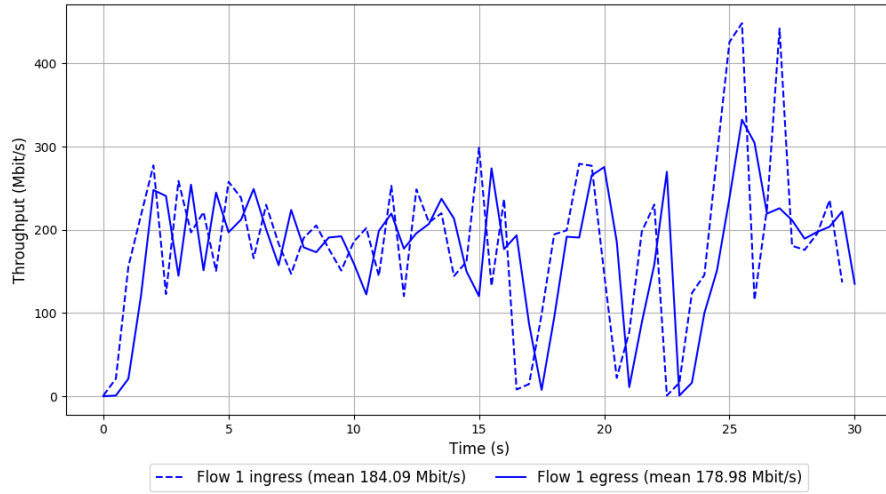
-- Flow 1:

Average throughput: 178.98 Mbit/s

95th percentile per-packet one-way delay: 217.770 ms

Loss rate: 3.71%

Run 4: Report of Verus — Data Link

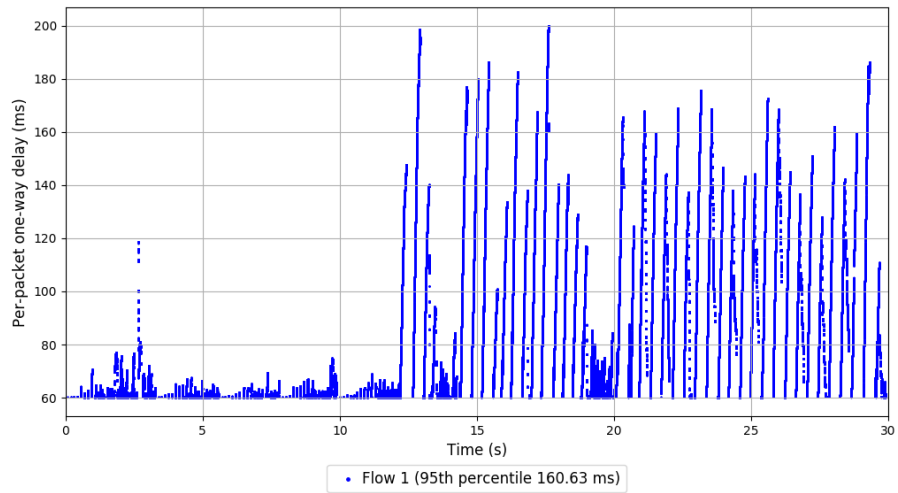
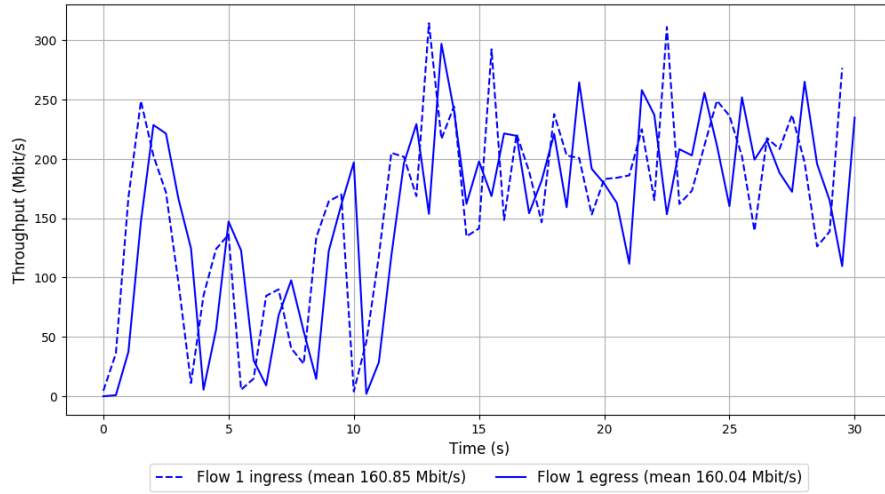


Run 5: Statistics of Verus

Start at: 2019-06-27 13:42:21  
End at: 2019-06-27 13:42:51  
Local clock offset: -0.034 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-06-27 15:39:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 160.04 Mbit/s  
95th percentile per-packet one-way delay: 160.628 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 160.04 Mbit/s  
95th percentile per-packet one-way delay: 160.628 ms  
Loss rate: 0.74%

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





Run 1: Statistics of PCC-Vivace

Start at: 2019-06-27 11:43:36

End at: 2019-06-27 11:44:06

Local clock offset: -0.055 ms

Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2019-06-27 15:39:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 264.43 Mbit/s

95th percentile per-packet one-way delay: 63.879 ms

Loss rate: 0.58%

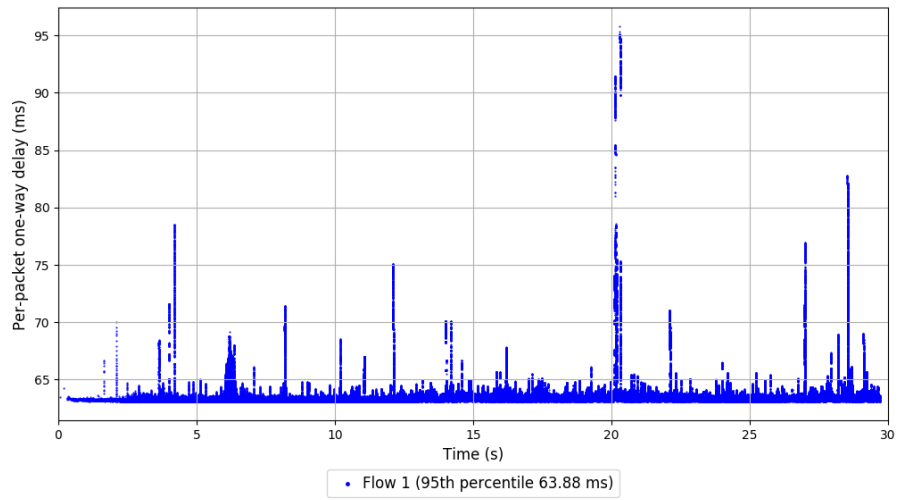
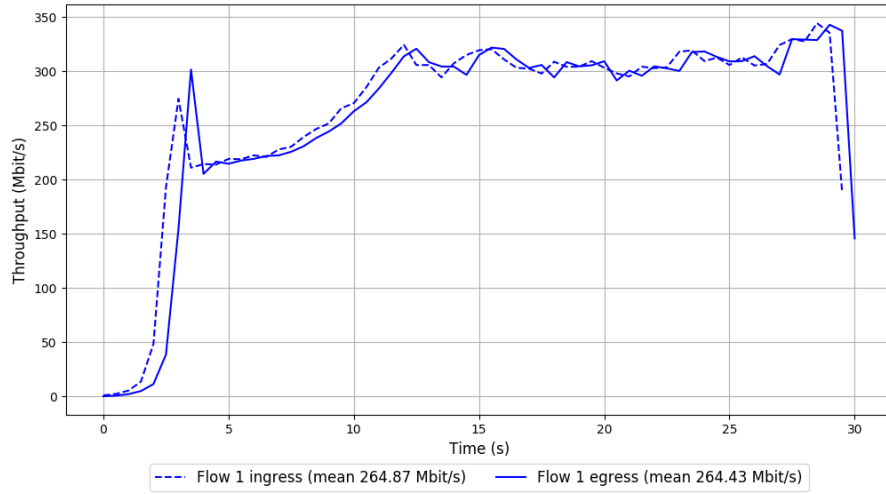
-- Flow 1:

Average throughput: 264.43 Mbit/s

95th percentile per-packet one-way delay: 63.879 ms

Loss rate: 0.58%

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



Run 2: Statistics of PCC-Vivace

Start at: 2019-06-27 12:15:08

End at: 2019-06-27 12:15:38

Local clock offset: -0.106 ms

Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-06-27 15:39:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 109.49 Mbit/s

95th percentile per-packet one-way delay: 59.999 ms

Loss rate: 0.75%

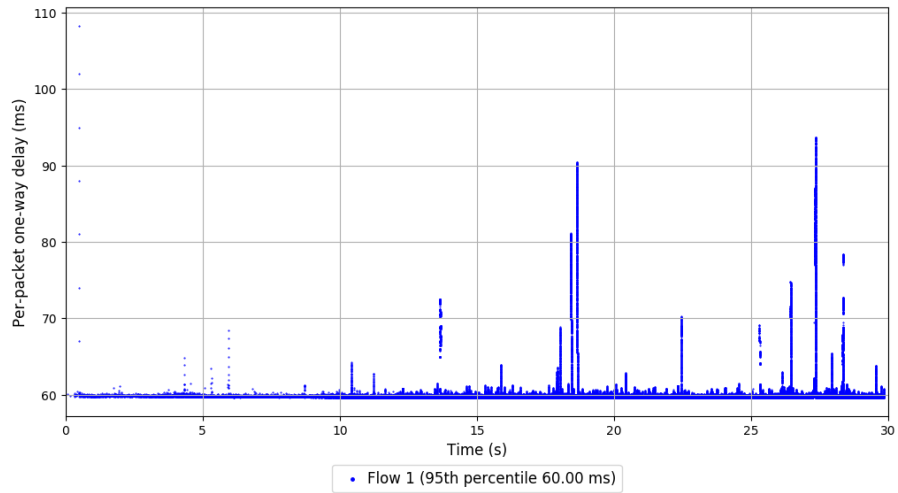
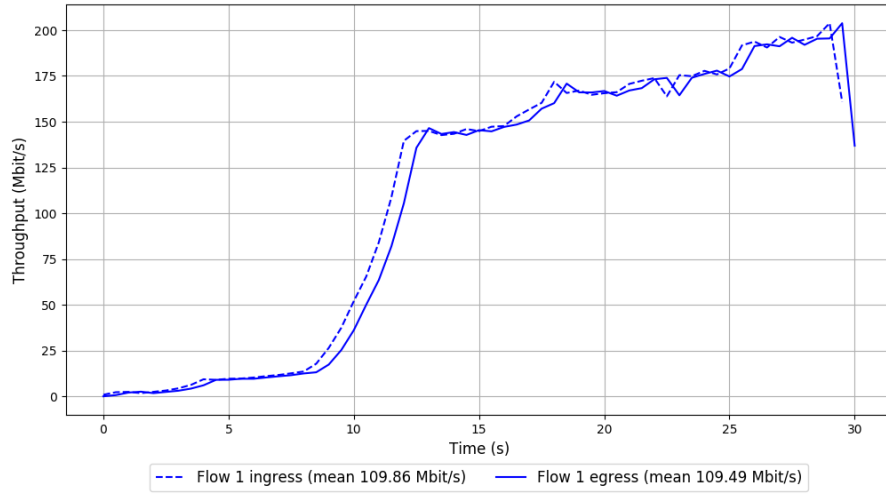
-- Flow 1:

Average throughput: 109.49 Mbit/s

95th percentile per-packet one-way delay: 59.999 ms

Loss rate: 0.75%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-06-27 12:46:23

End at: 2019-06-27 12:46:53

Local clock offset: -0.039 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-06-27 15:40:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 324.23 Mbit/s

95th percentile per-packet one-way delay: 64.435 ms

Loss rate: 0.57%

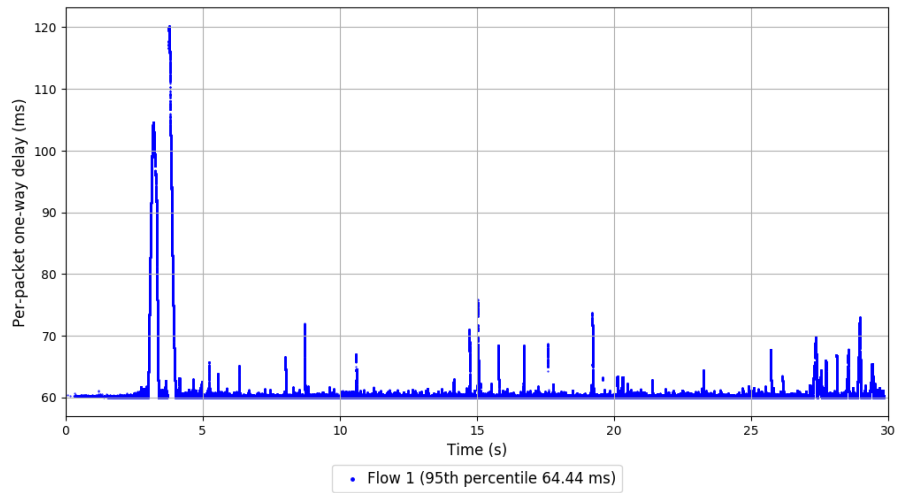
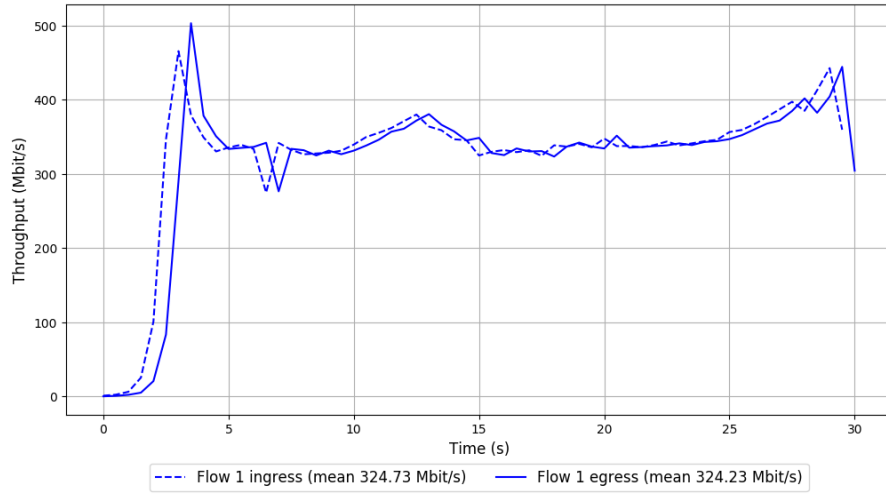
-- Flow 1:

Average throughput: 324.23 Mbit/s

95th percentile per-packet one-way delay: 64.435 ms

Loss rate: 0.57%

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



Run 4: Statistics of PCC-Vivace

Start at: 2019-06-27 13:17:30

End at: 2019-06-27 13:18:00

Local clock offset: 0.006 ms

Remote clock offset: 0.457 ms

# Below is generated by plot.py at 2019-06-27 15:40:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 278.97 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.56%

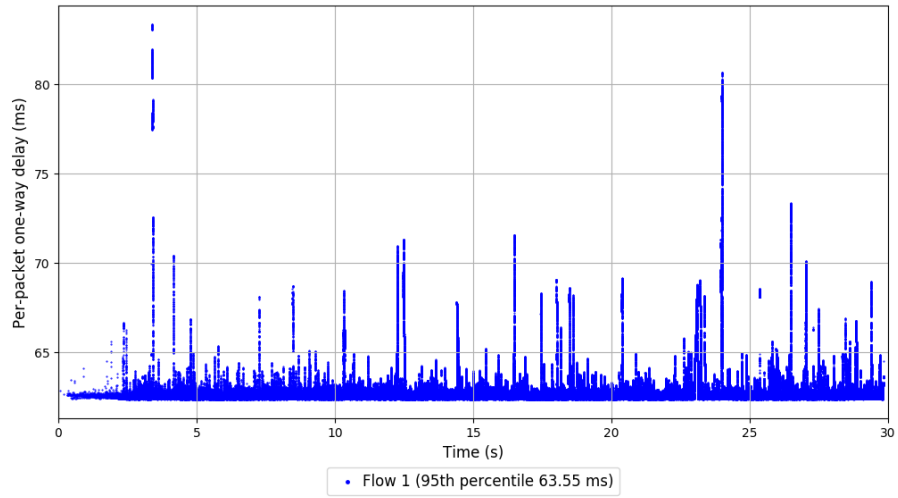
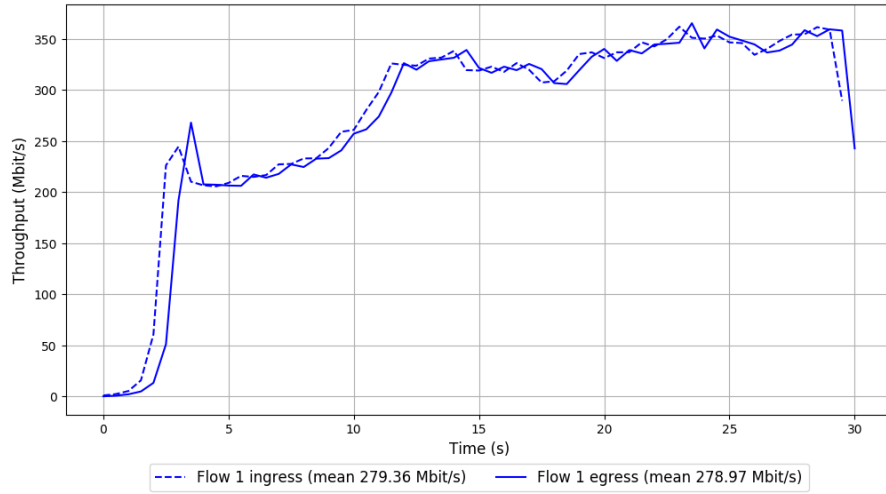
-- Flow 1:

Average throughput: 278.97 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.56%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-06-27 13:49:04

End at: 2019-06-27 13:49:34

Local clock offset: -0.042 ms

Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2019-06-27 15:40:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 337.81 Mbit/s

95th percentile per-packet one-way delay: 66.083 ms

Loss rate: 0.39%

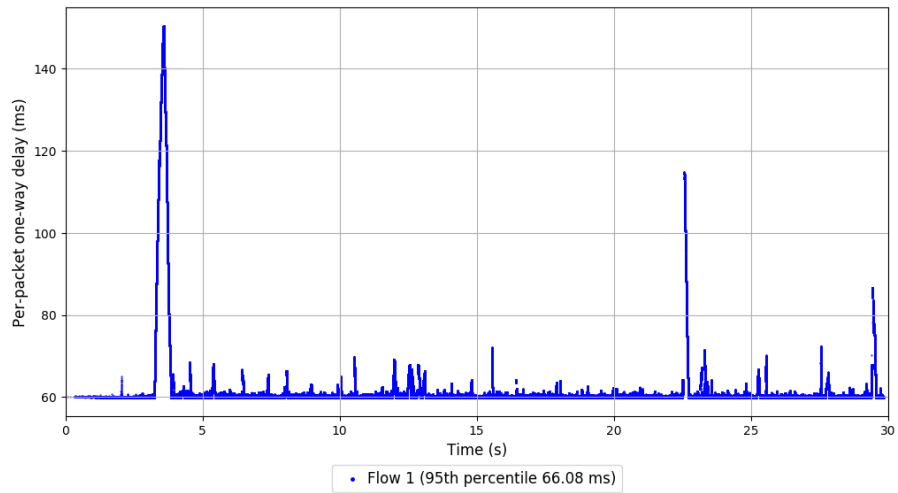
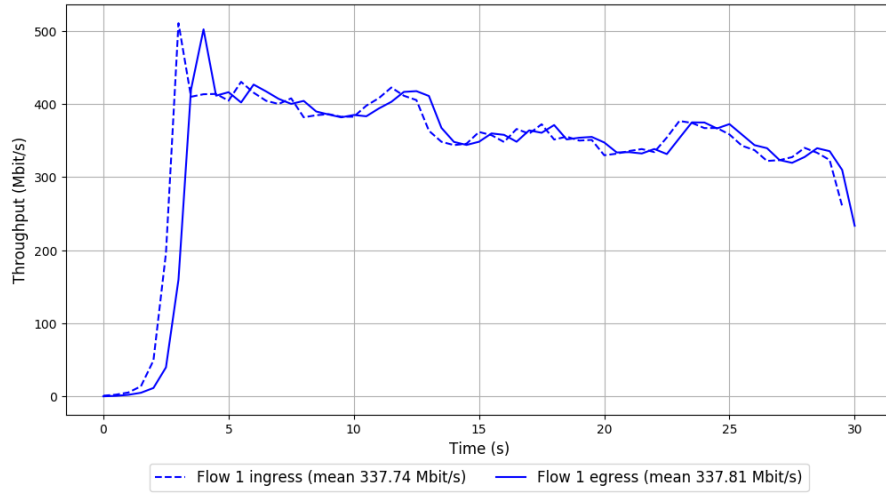
-- Flow 1:

Average throughput: 337.81 Mbit/s

95th percentile per-packet one-way delay: 66.083 ms

Loss rate: 0.39%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-06-27 11:42:28

End at: 2019-06-27 11:42:58

Local clock offset: -0.046 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-06-27 15:40:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 63.281 ms

Loss rate: 0.66%

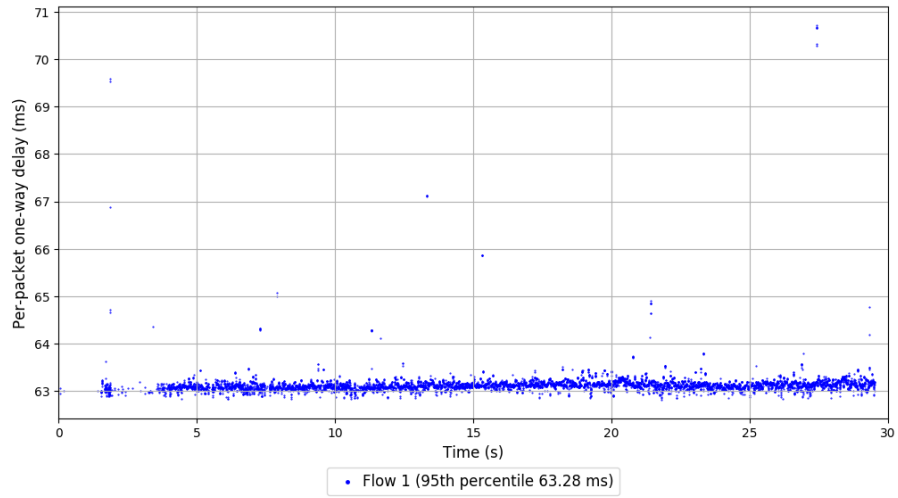
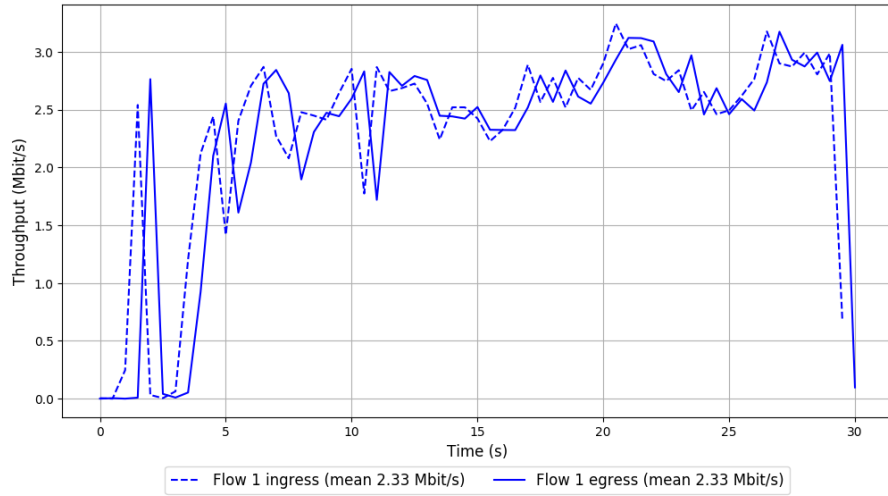
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 63.281 ms

Loss rate: 0.66%

Run 1: Report of WebRTC media — Data Link

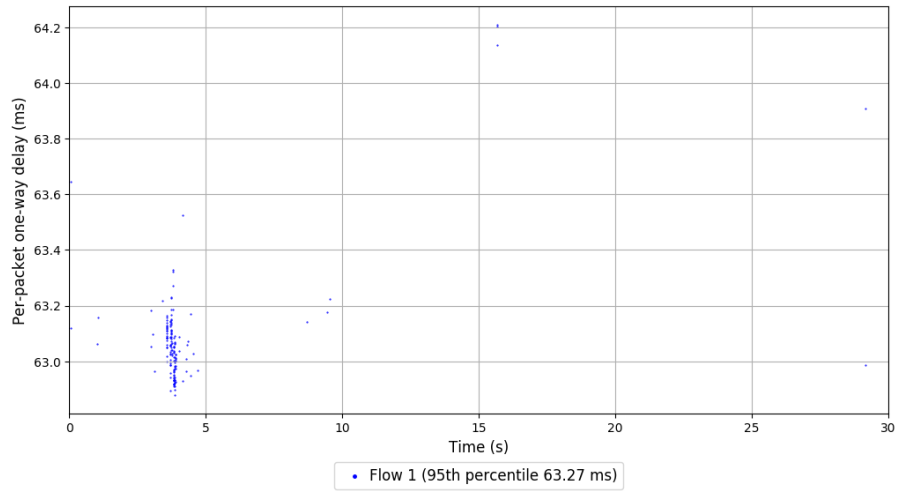
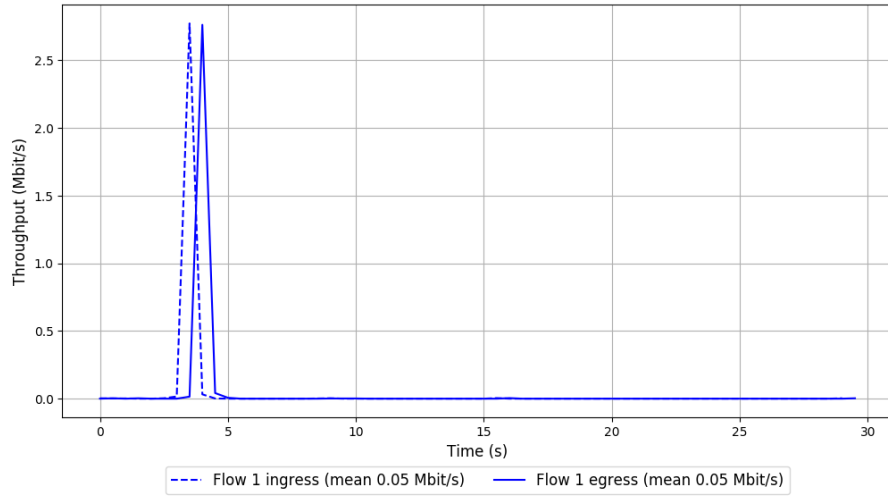


Run 2: Statistics of WebRTC media

Start at: 2019-06-27 12:14:00  
End at: 2019-06-27 12:14:30  
Local clock offset: -0.119 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-06-27 15:40:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 63.270 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 63.270 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

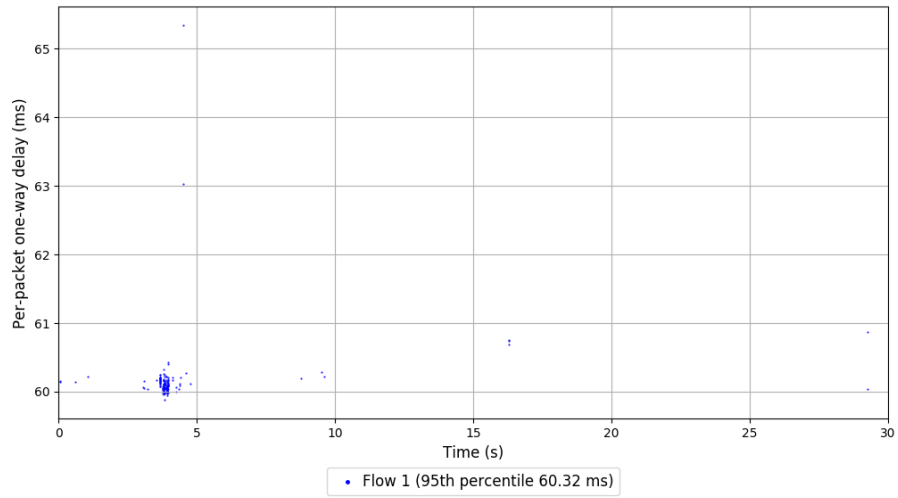
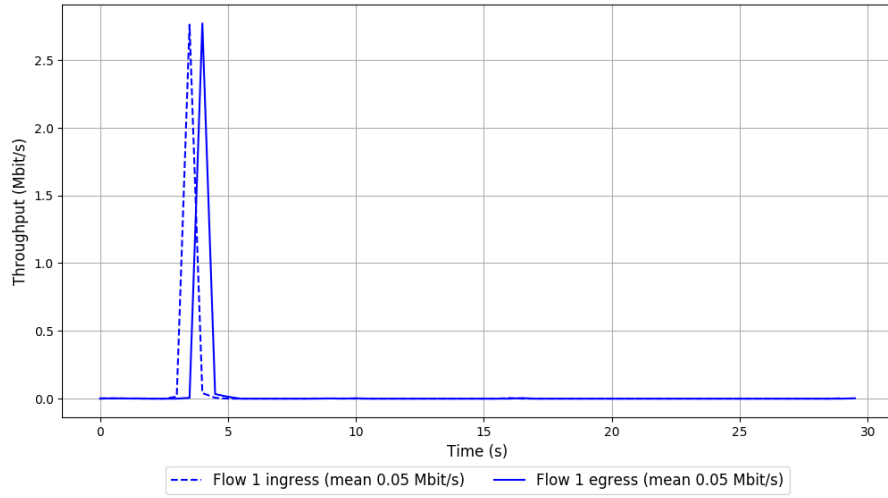


Run 3: Statistics of WebRTC media

Start at: 2019-06-27 12:45:15  
End at: 2019-06-27 12:45:45  
Local clock offset: -0.031 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-06-27 15:40:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.319 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.319 ms  
Loss rate: 0.00%

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





Run 4: Statistics of WebRTC media

Start at: 2019-06-27 13:16:22

End at: 2019-06-27 13:16:52

Local clock offset: -0.013 ms

Remote clock offset: 0.444 ms

# Below is generated by plot.py at 2019-06-27 15:40:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 59.591 ms

Loss rate: 0.00%

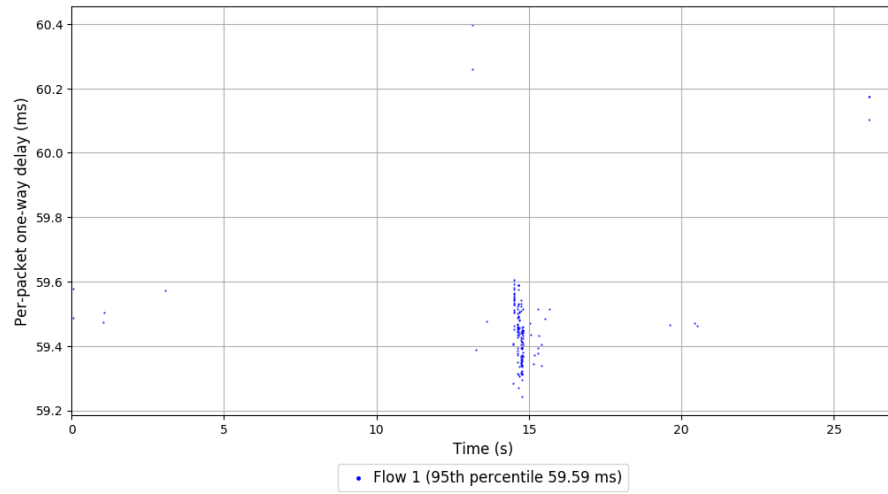
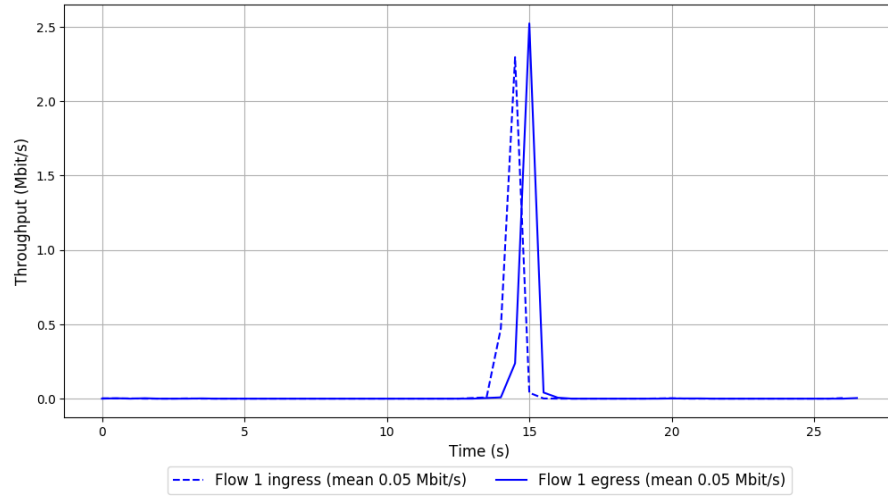
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 59.591 ms

Loss rate: 0.00%

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



Run 5: Statistics of WebRTC media

Start at: 2019-06-27 13:47:56  
End at: 2019-06-27 13:48:26  
Local clock offset: -0.054 ms  
Remote clock offset: -0.268 ms

# Below is generated by plot.py at 2019-06-27 15:40:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 63.495 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 63.495 ms  
Loss rate: 0.00%

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

