

## Pantheon Report

Generated at 2019-06-27 15:42:47 (UTC).

Data path: Mexico on `em1` (*remote*) → AWS California 2 on `ens5` (*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.stanford.edu` and have been applied to correct the timestamps in logs.

### System info:

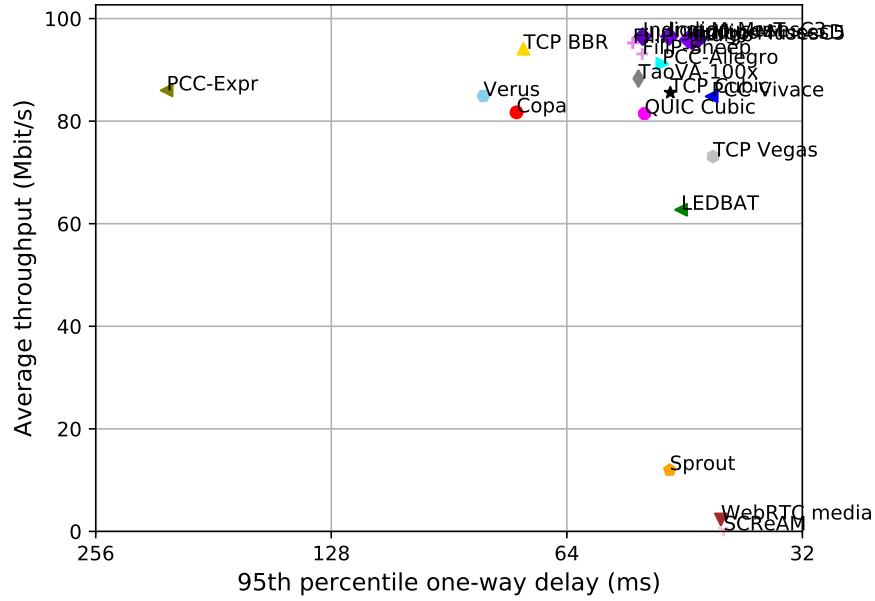
```
Linux 4.15.0-1039-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

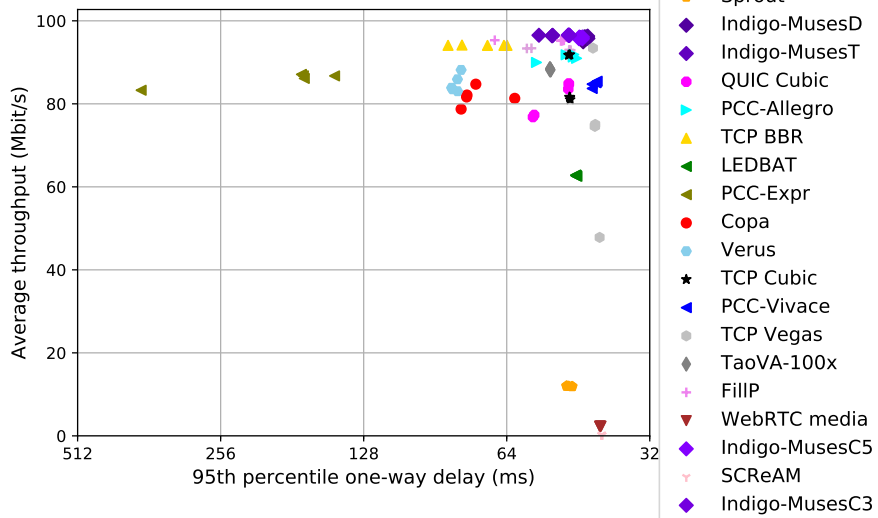
```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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 Mexico to AWS California 2, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from Mexico to AWS California 2, 5 runs of 30s each per 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	94.10	72.71	0.83
Copa	5	81.71	74.21	0.25
TCP Cubic	5	85.55	47.20	0.26
FillP	5	95.25	52.70	0.27
FillP-Sheep	5	93.10	51.26	0.25
Indigo	5	95.59	44.21	0.23
Indigo-MusesC3	5	96.52	47.34	0.24
Indigo-MusesC5	5	95.91	44.75	0.24
Indigo-MusesD	5	96.09	43.44	0.24
Indigo-MusesT	5	96.47	51.19	0.27
LEDBAT	5	62.71	45.73	0.37
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	91.18	48.33	0.25
PCC-Expr	5	86.00	207.83	0.41
QUIC Cubic	5	81.47	50.92	0.24
SCReAM	5	0.21	40.36	0.26
Sprout	5	11.96	47.28	0.19
TaoVA-100x	5	88.30	51.84	0.23
TCP Vegas	5	73.10	41.62	0.27
Verus	5	84.90	81.82	0.49
PCC-Vivace	5	84.83	41.79	0.24
WebRTC media	5	2.32	40.67	0.23



Run 1: Statistics of TCP BBR

Start at: 2019-06-27 13:25:54

End at: 2019-06-27 13:26:24

Local clock offset: -0.941 ms

Remote clock offset: -2.812 ms

# Below is generated by plot.py at 2019-06-27 15:28:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 70.251 ms

Loss rate: 0.99%

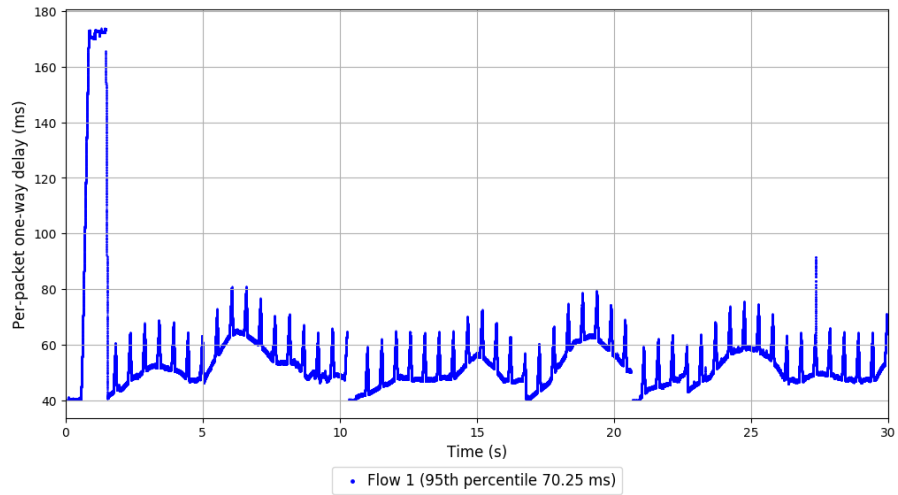
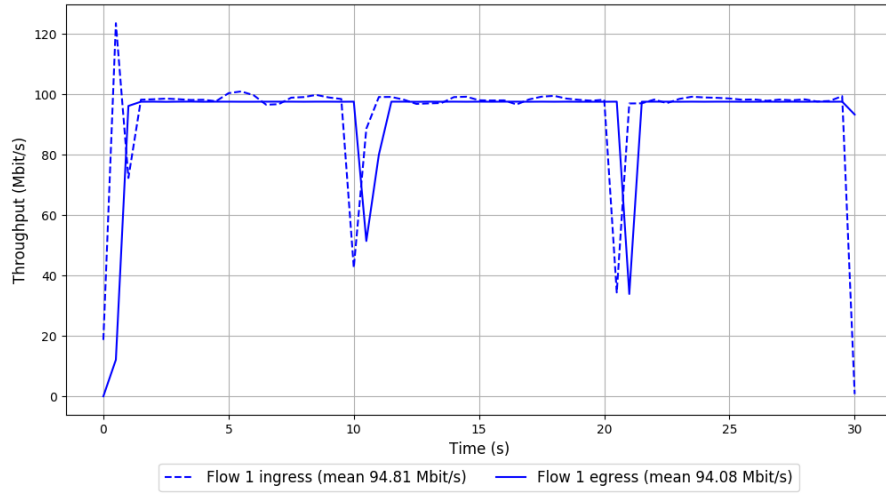
-- Flow 1:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 70.251 ms

Loss rate: 0.99%

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



Run 2: Statistics of TCP BBR

Start at: 2019-06-27 13:53:45

End at: 2019-06-27 13:54:15

Local clock offset: 0.67 ms

Remote clock offset: -1.803 ms

# Below is generated by plot.py at 2019-06-27 15:28:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 85.048 ms

Loss rate: 0.96%

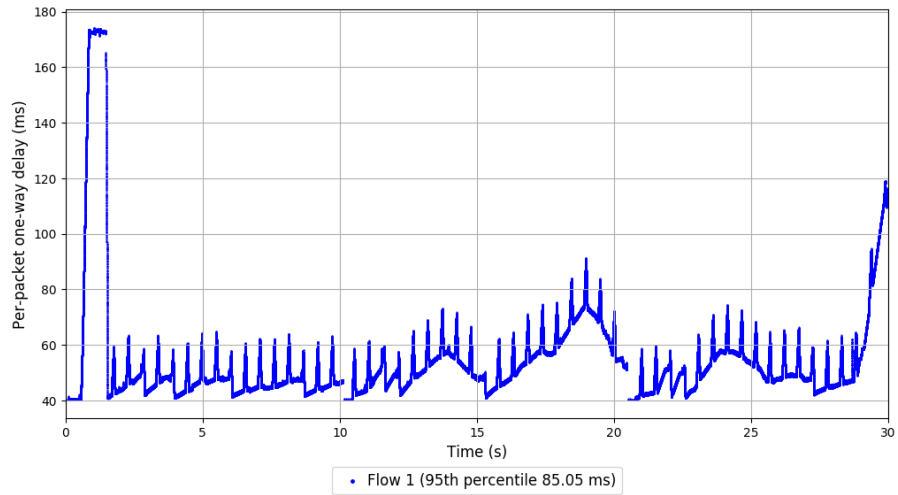
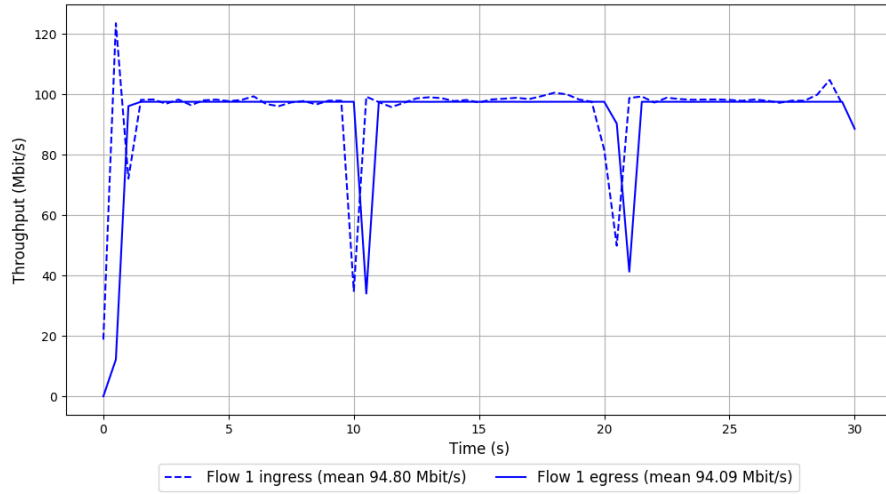
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 85.048 ms

Loss rate: 0.96%

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



Run 3: Statistics of TCP BBR

Start at: 2019-06-27 14:20:51

End at: 2019-06-27 14:21:21

Local clock offset: -0.314 ms

Remote clock offset: -2.14 ms

# Below is generated by plot.py at 2019-06-27 15:28:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 64.861 ms

Loss rate: 0.73%

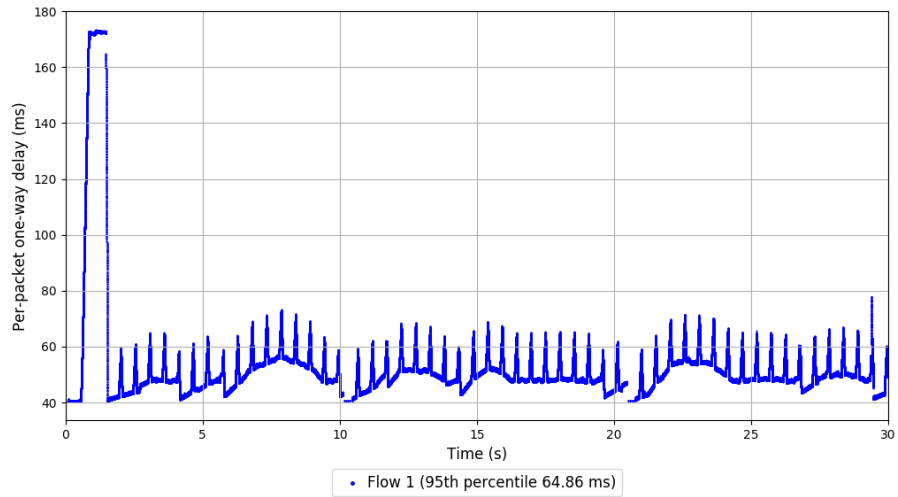
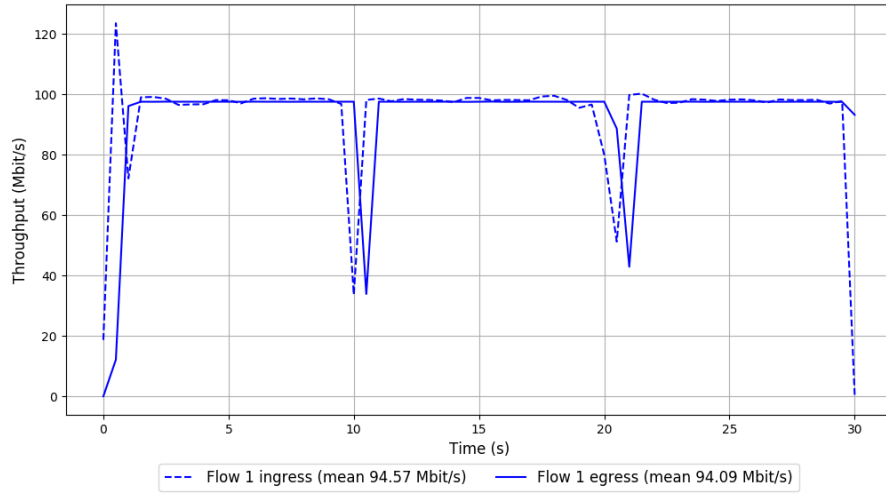
-- Flow 1:

Average throughput: 94.09 Mbit/s

95th percentile per-packet one-way delay: 64.861 ms

Loss rate: 0.73%

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

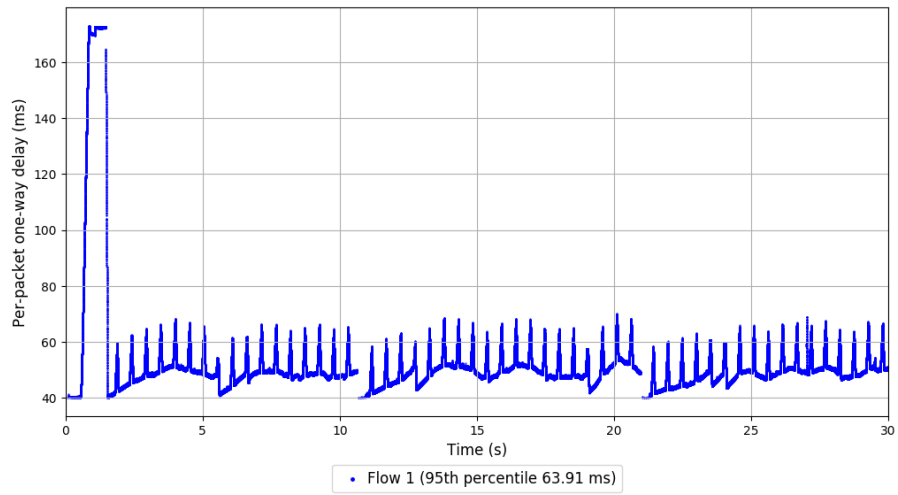
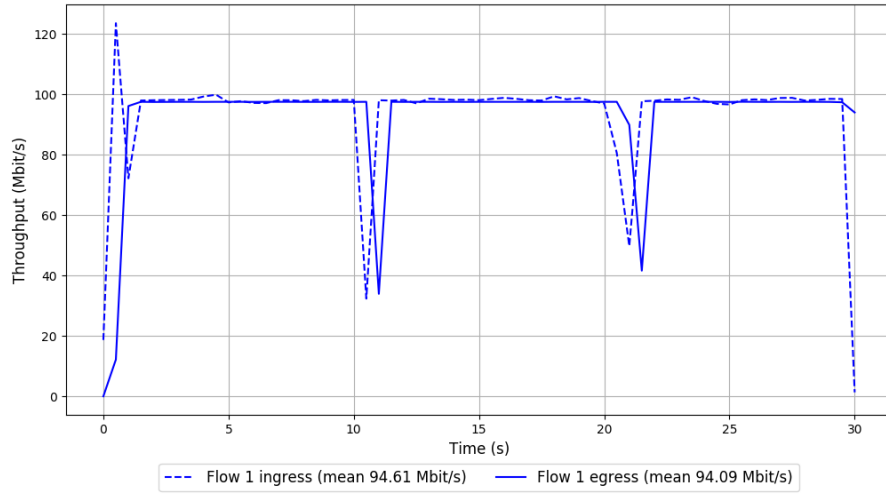


Run 4: Statistics of TCP BBR

Start at: 2019-06-27 14:48:36  
End at: 2019-06-27 14:49:06  
Local clock offset: -3.919 ms  
Remote clock offset: -2.202 ms

# Below is generated by plot.py at 2019-06-27 15:28:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.09 Mbit/s  
95th percentile per-packet one-way delay: 63.913 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 94.09 Mbit/s  
95th percentile per-packet one-way delay: 63.913 ms  
Loss rate: 0.77%

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



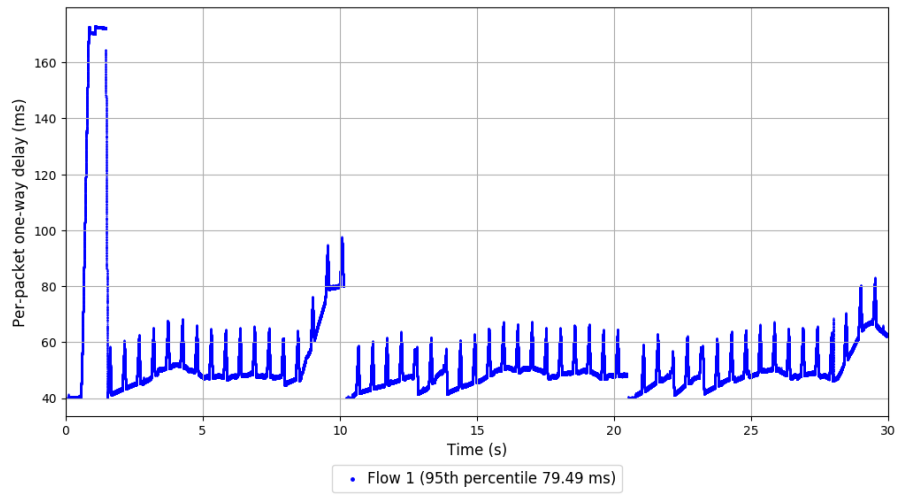
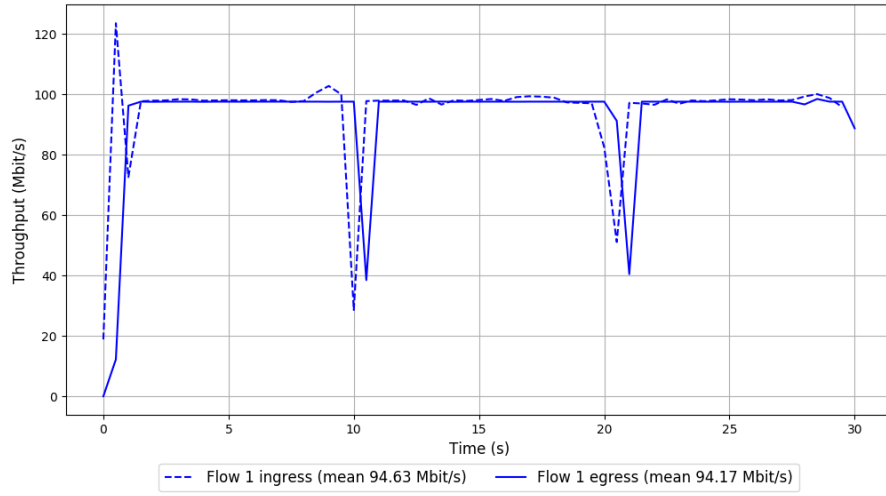


Run 5: Statistics of TCP BBR

Start at: 2019-06-27 15:15:36  
End at: 2019-06-27 15:16:06  
Local clock offset: -3.147 ms  
Remote clock offset: -2.361 ms

# Below is generated by plot.py at 2019-06-27 15:28:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.17 Mbit/s  
95th percentile per-packet one-way delay: 79.492 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 94.17 Mbit/s  
95th percentile per-packet one-way delay: 79.492 ms  
Loss rate: 0.71%

Run 5: Report of TCP BBR — Data Link

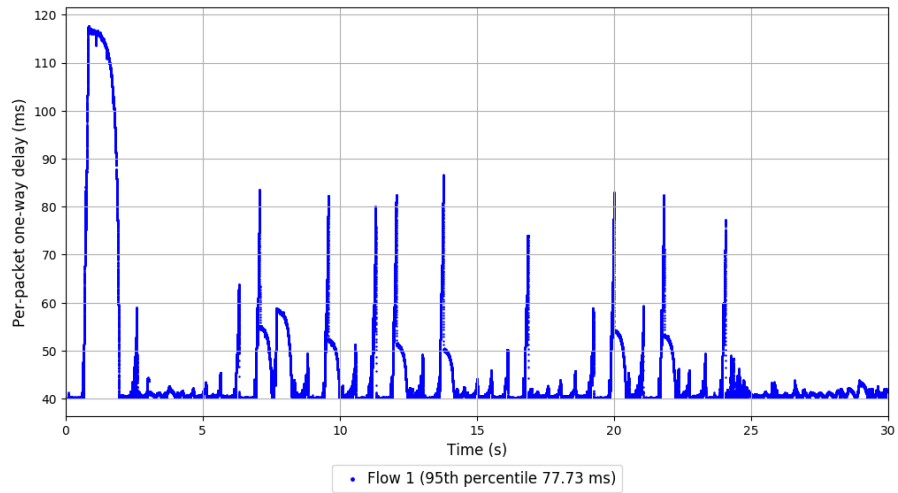
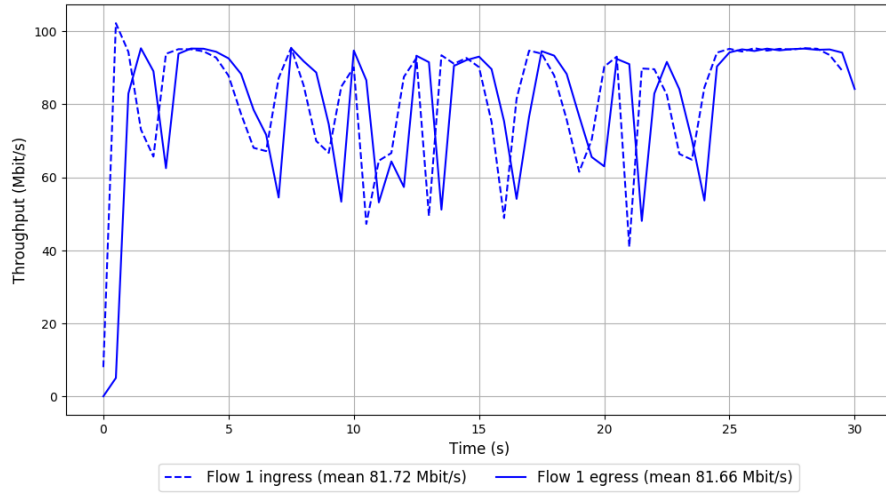


Run 1: Statistics of Copa

Start at: 2019-06-27 13:30:38  
End at: 2019-06-27 13:31:08  
Local clock offset: -0.291 ms  
Remote clock offset: -2.493 ms

# Below is generated by plot.py at 2019-06-27 15:29:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.66 Mbit/s  
95th percentile per-packet one-way delay: 77.732 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 81.66 Mbit/s  
95th percentile per-packet one-way delay: 77.732 ms  
Loss rate: 0.29%

### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-06-27 13:58:38

End at: 2019-06-27 13:59:08

Local clock offset: 0.617 ms

Remote clock offset: -1.977 ms

# Below is generated by plot.py at 2019-06-27 15:29:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 77.595 ms

Loss rate: 0.27%

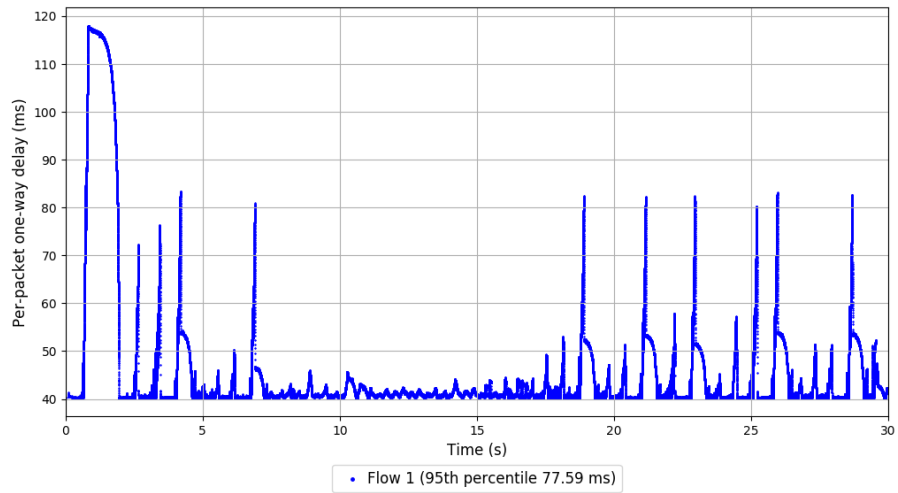
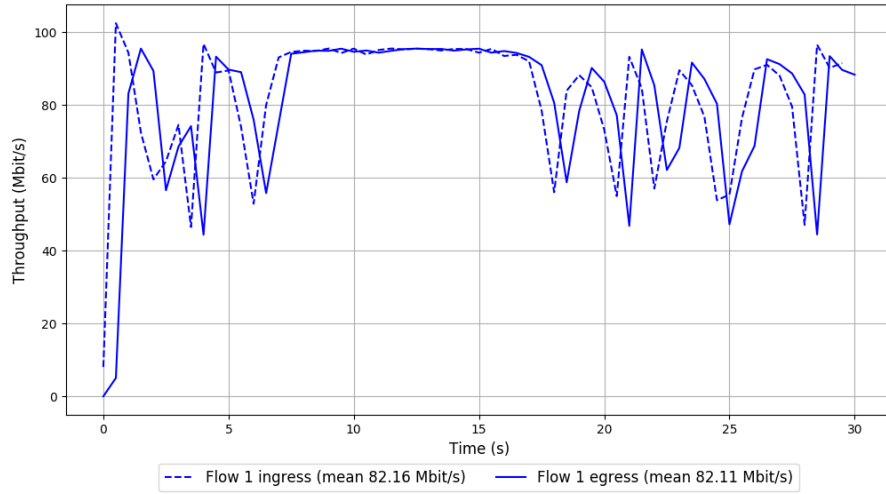
-- Flow 1:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 77.595 ms

Loss rate: 0.27%

## Run 2: Report of Copa — Data Link

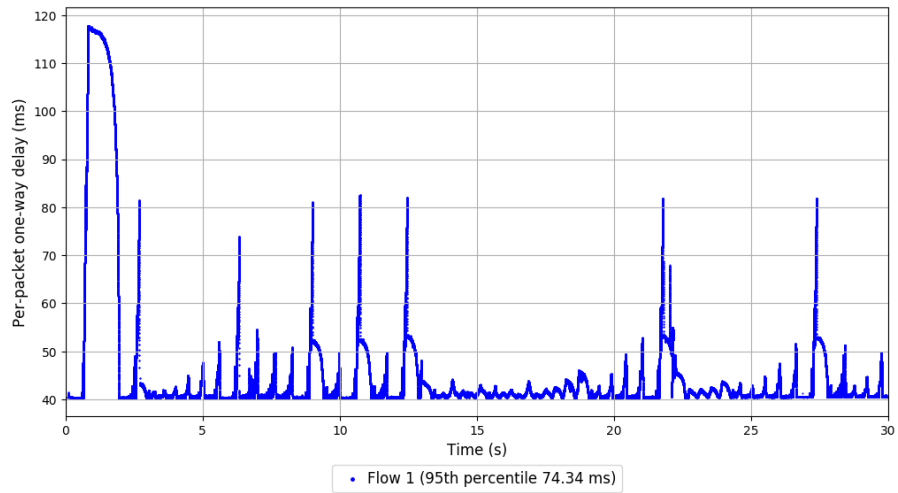
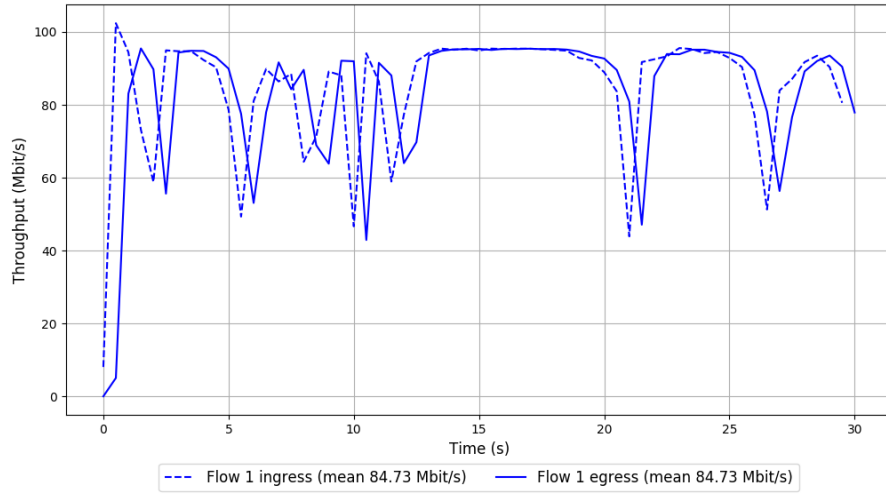


Run 3: Statistics of Copa

Start at: 2019-06-27 14:25:44  
End at: 2019-06-27 14:26:14  
Local clock offset: -1.695 ms  
Remote clock offset: -2.146 ms

# Below is generated by plot.py at 2019-06-27 15:29:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.73 Mbit/s  
95th percentile per-packet one-way delay: 74.340 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 84.73 Mbit/s  
95th percentile per-packet one-way delay: 74.340 ms  
Loss rate: 0.22%

### Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-06-27 14:53:27

End at: 2019-06-27 14:53:57

Local clock offset: -3.46 ms

Remote clock offset: -2.263 ms

# Below is generated by plot.py at 2019-06-27 15:30:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 79.832 ms

Loss rate: 0.17%

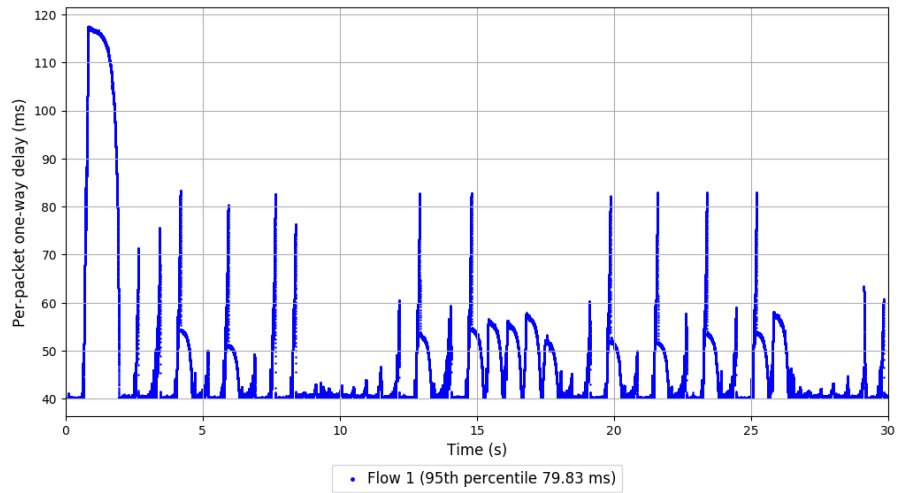
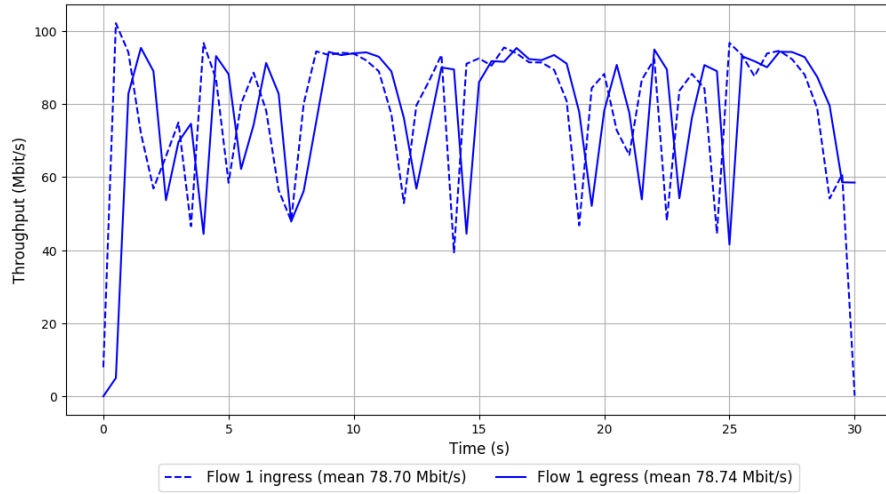
-- Flow 1:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 79.832 ms

Loss rate: 0.17%

### Run 4: Report of Copa — Data Link

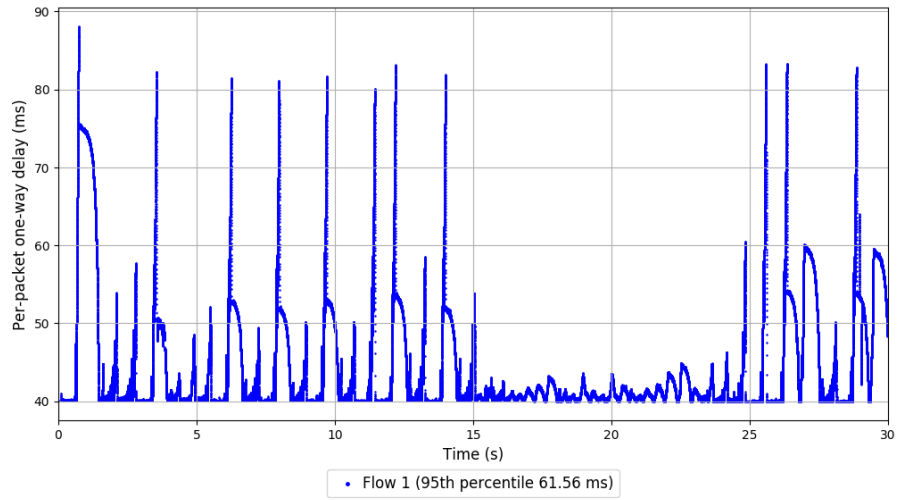
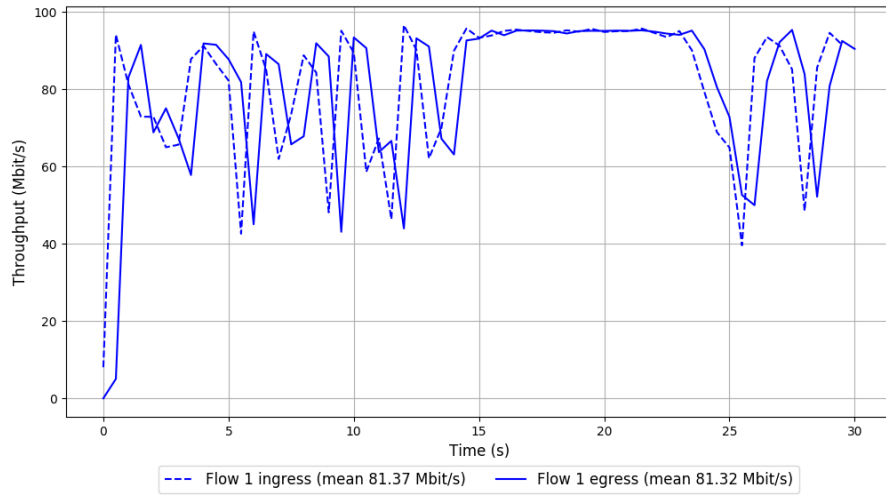


Run 5: Statistics of Copa

Start at: 2019-06-27 15:20:18  
End at: 2019-06-27 15:20:48  
Local clock offset: -2.424 ms  
Remote clock offset: -2.373 ms

# Below is generated by plot.py at 2019-06-27 15:30:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.32 Mbit/s  
95th percentile per-packet one-way delay: 61.560 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 81.32 Mbit/s  
95th percentile per-packet one-way delay: 61.560 ms  
Loss rate: 0.28%

### Run 5: Report of Copa — Data Link

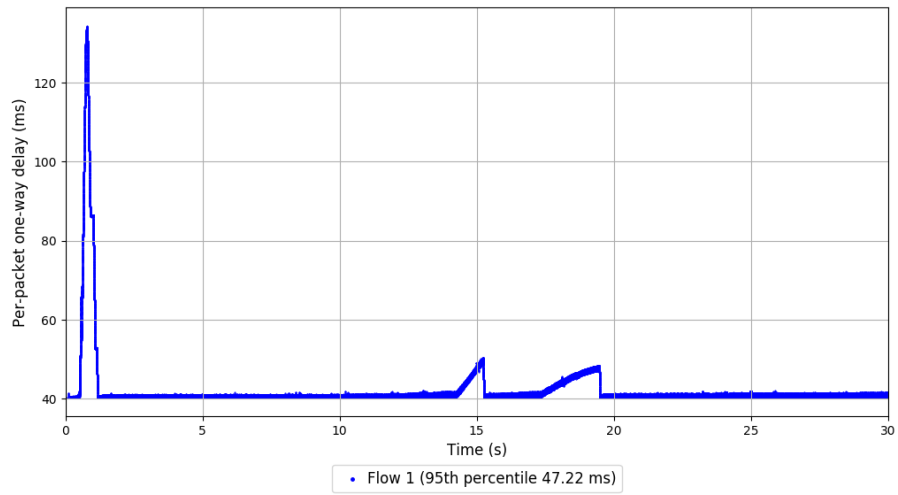
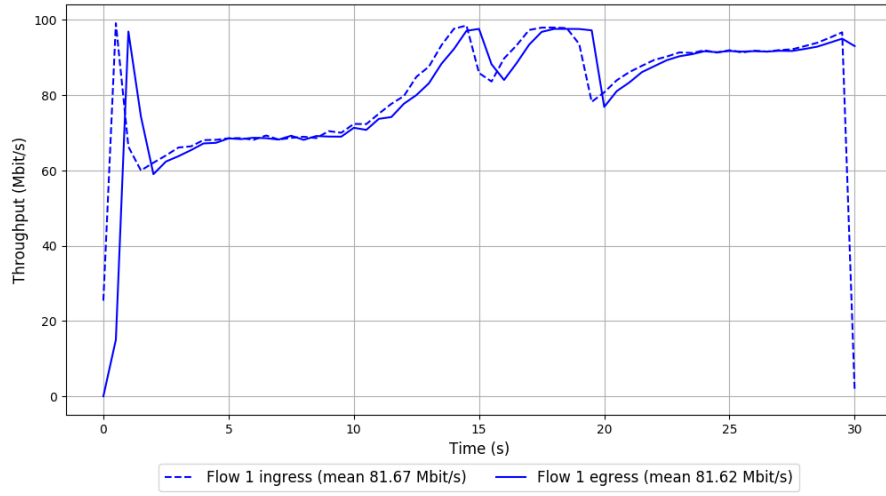


Run 1: Statistics of TCP Cubic

Start at: 2019-06-27 13:27:08  
End at: 2019-06-27 13:27:38  
Local clock offset: -0.753 ms  
Remote clock offset: -2.741 ms

# Below is generated by plot.py at 2019-06-27 15:30:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.62 Mbit/s  
95th percentile per-packet one-way delay: 47.223 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 81.62 Mbit/s  
95th percentile per-packet one-way delay: 47.223 ms  
Loss rate: 0.27%

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

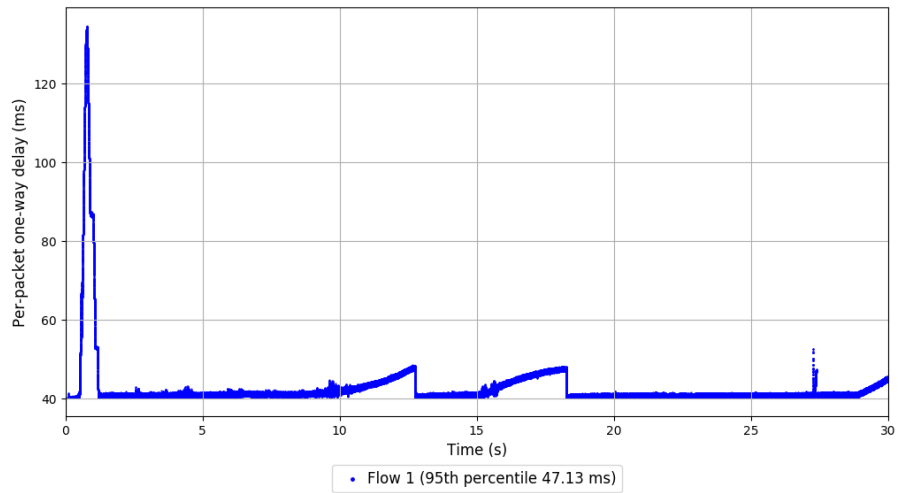
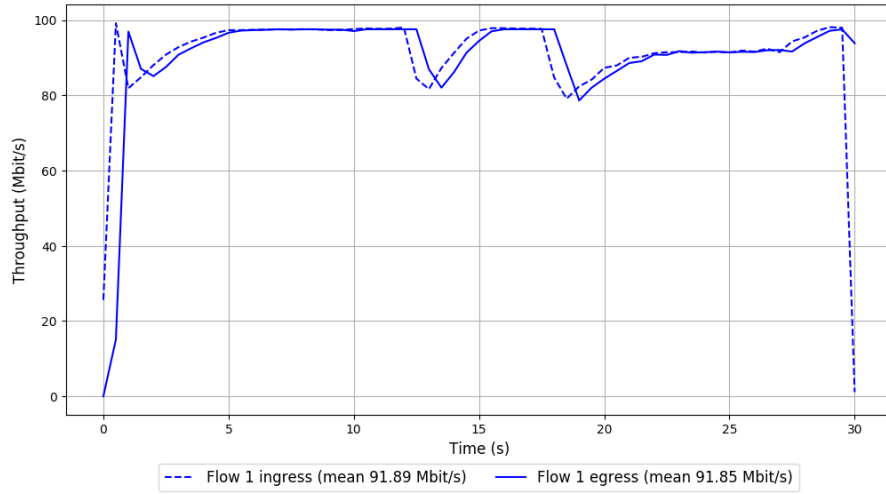


Run 2: Statistics of TCP Cubic

Start at: 2019-06-27 13:55:00  
End at: 2019-06-27 13:55:30  
Local clock offset: 0.639 ms  
Remote clock offset: -1.825 ms

# Below is generated by plot.py at 2019-06-27 15:30:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.85 Mbit/s  
95th percentile per-packet one-way delay: 47.134 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 91.85 Mbit/s  
95th percentile per-packet one-way delay: 47.134 ms  
Loss rate: 0.26%

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



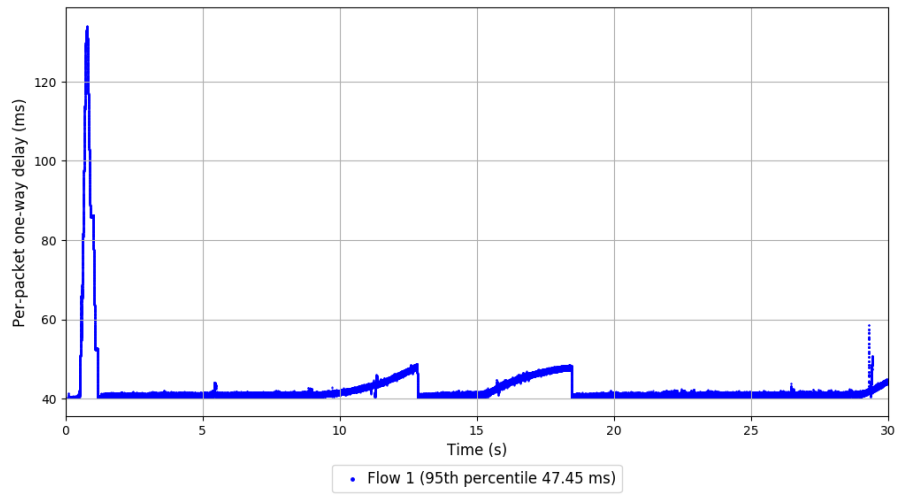
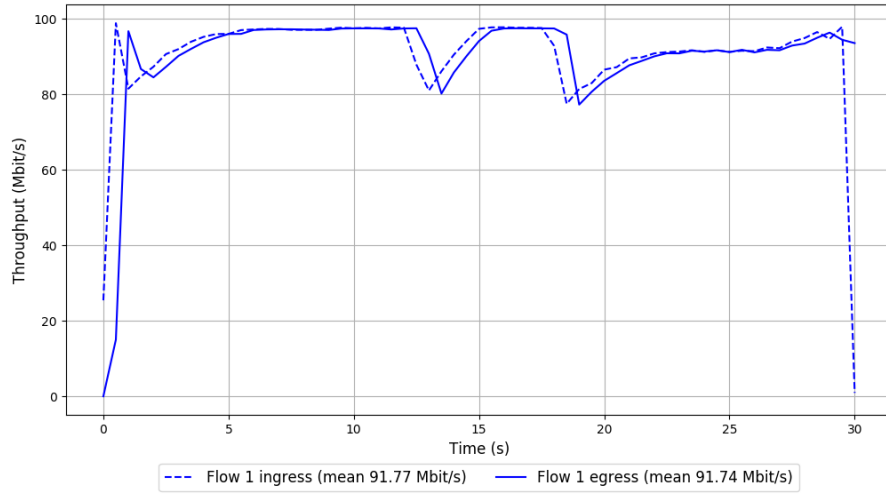


Run 3: Statistics of TCP Cubic

Start at: 2019-06-27 14:22:08  
End at: 2019-06-27 14:22:38  
Local clock offset: -0.813 ms  
Remote clock offset: -2.157 ms

# Below is generated by plot.py at 2019-06-27 15:30:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.74 Mbit/s  
95th percentile per-packet one-way delay: 47.445 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 91.74 Mbit/s  
95th percentile per-packet one-way delay: 47.445 ms  
Loss rate: 0.25%

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

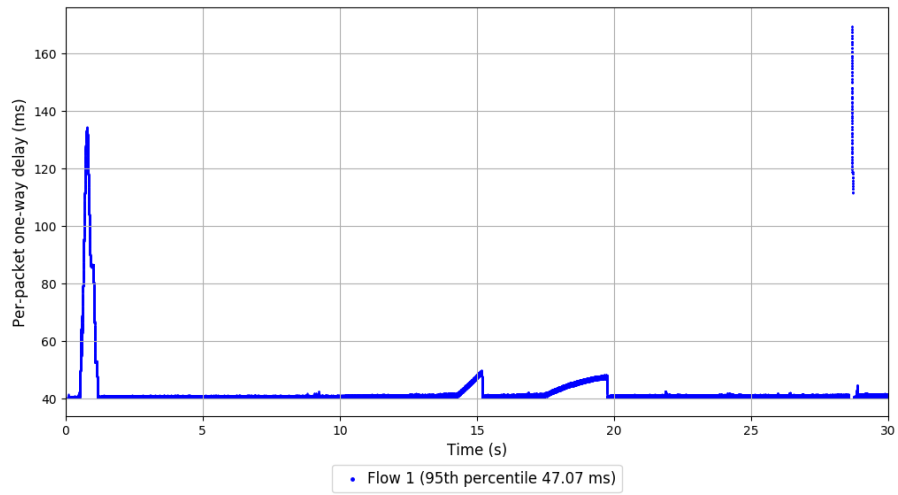
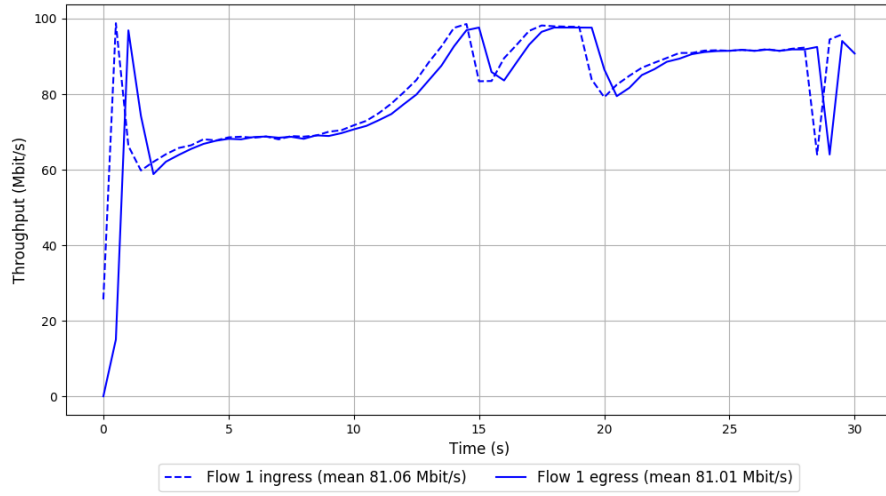


Run 4: Statistics of TCP Cubic

Start at: 2019-06-27 14:49:51  
End at: 2019-06-27 14:50:21  
Local clock offset: -3.746 ms  
Remote clock offset: -2.257 ms

# Below is generated by plot.py at 2019-06-27 15:30:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.01 Mbit/s  
95th percentile per-packet one-way delay: 47.070 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 81.01 Mbit/s  
95th percentile per-packet one-way delay: 47.070 ms  
Loss rate: 0.27%

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

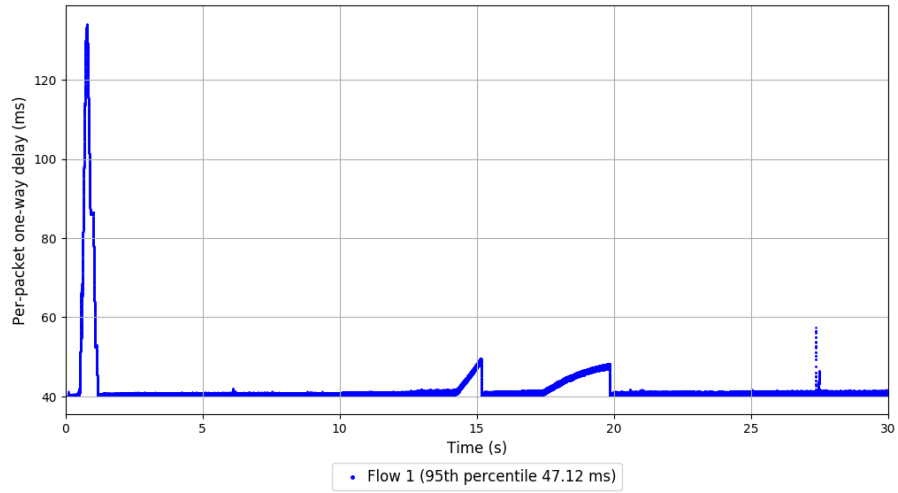
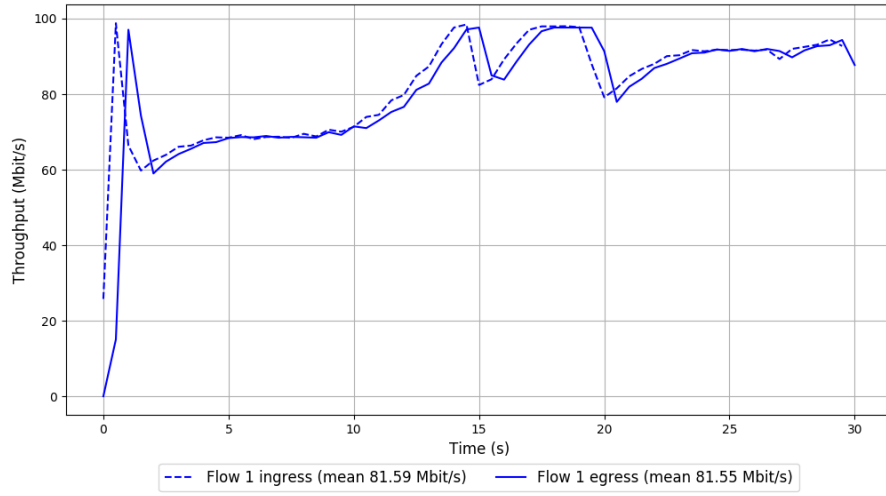


Run 5: Statistics of TCP Cubic

Start at: 2019-06-27 15:16:50  
End at: 2019-06-27 15:17:20  
Local clock offset: -3.153 ms  
Remote clock offset: -2.389 ms

# Below is generated by plot.py at 2019-06-27 15:30:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.55 Mbit/s  
95th percentile per-packet one-way delay: 47.122 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 81.55 Mbit/s  
95th percentile per-packet one-way delay: 47.122 ms  
Loss rate: 0.27%

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

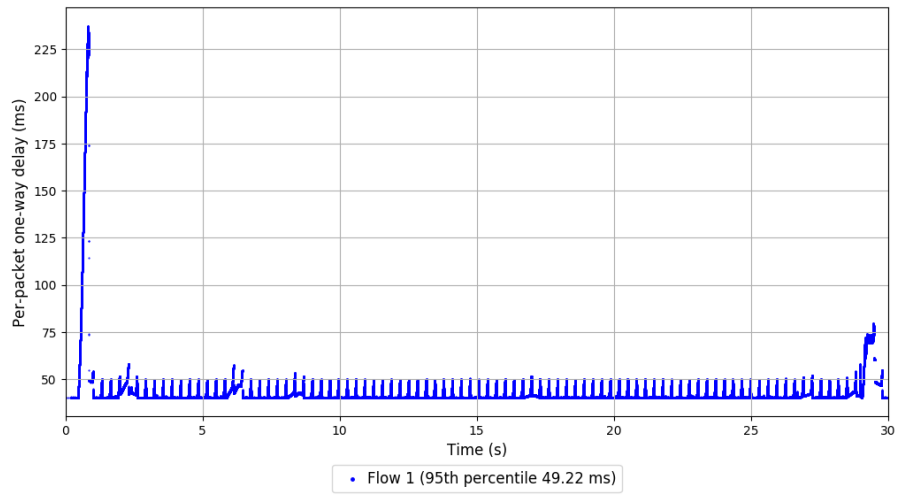
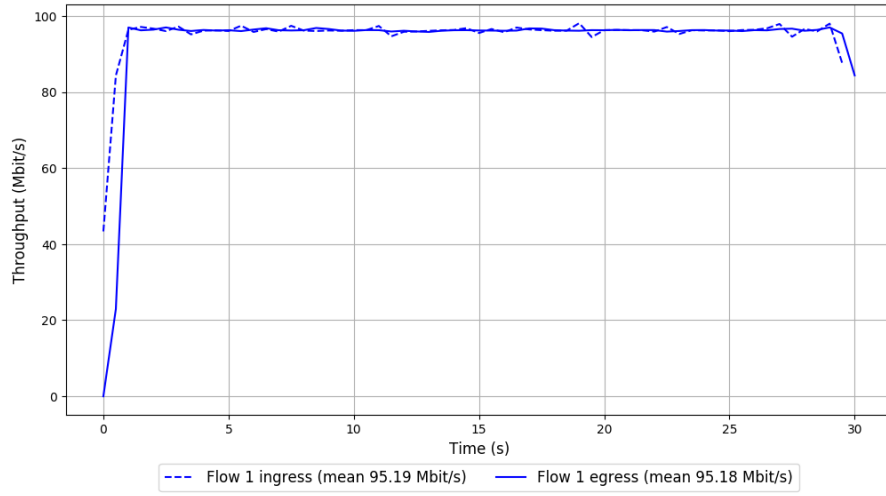


Run 1: Statistics of FillP

Start at: 2019-06-27 13:15:22  
End at: 2019-06-27 13:15:52  
Local clock offset: -3.049 ms  
Remote clock offset: -3.201 ms

# Below is generated by plot.py at 2019-06-27 15:31:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.18 Mbit/s  
95th percentile per-packet one-way delay: 49.222 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 95.18 Mbit/s  
95th percentile per-packet one-way delay: 49.222 ms  
Loss rate: 0.23%

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



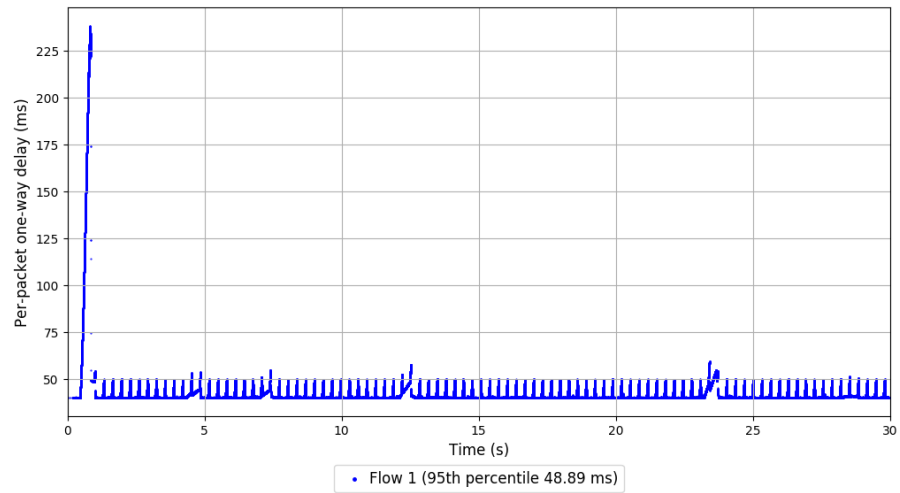
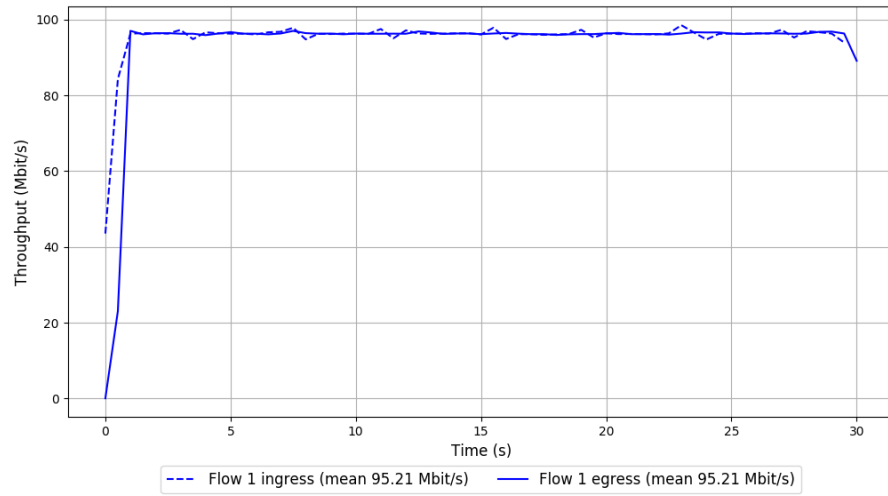


Run 2: Statistics of FillP

Start at: 2019-06-27 13:42:54  
End at: 2019-06-27 13:43:24  
Local clock offset: 0.694 ms  
Remote clock offset: -1.873 ms

# Below is generated by plot.py at 2019-06-27 15:31:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.21 Mbit/s  
95th percentile per-packet one-way delay: 48.886 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 95.21 Mbit/s  
95th percentile per-packet one-way delay: 48.886 ms  
Loss rate: 0.22%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-06-27 14:09:58

End at: 2019-06-27 14:10:28

Local clock offset: 0.647 ms

Remote clock offset: -2.186 ms

# Below is generated by plot.py at 2019-06-27 15:31:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.24 Mbit/s

95th percentile per-packet one-way delay: 49.086 ms

Loss rate: 0.26%

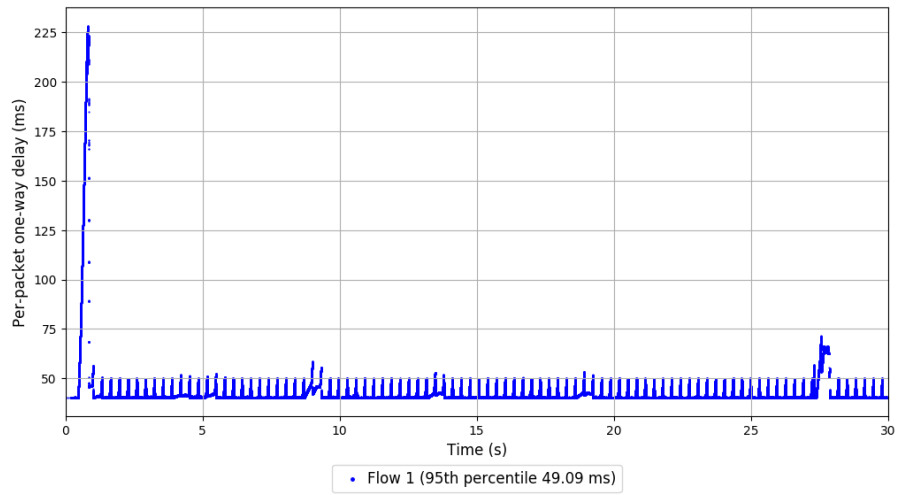
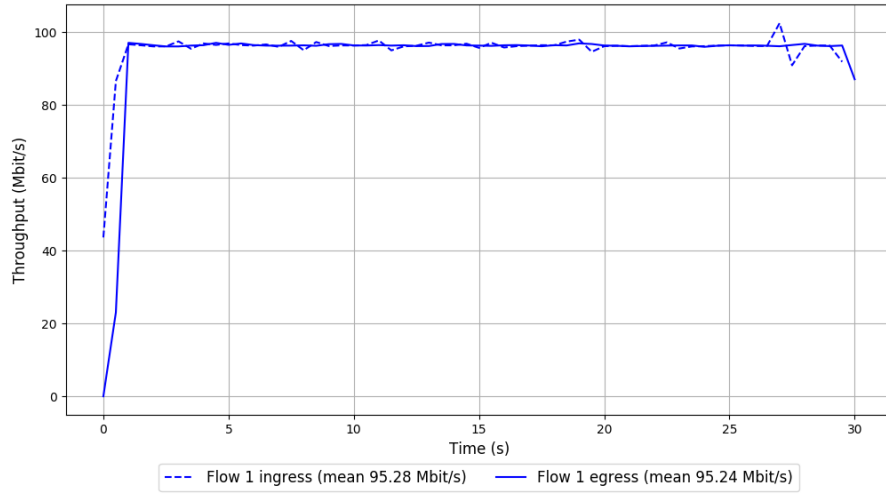
-- Flow 1:

Average throughput: 95.24 Mbit/s

95th percentile per-packet one-way delay: 49.086 ms

Loss rate: 0.26%

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

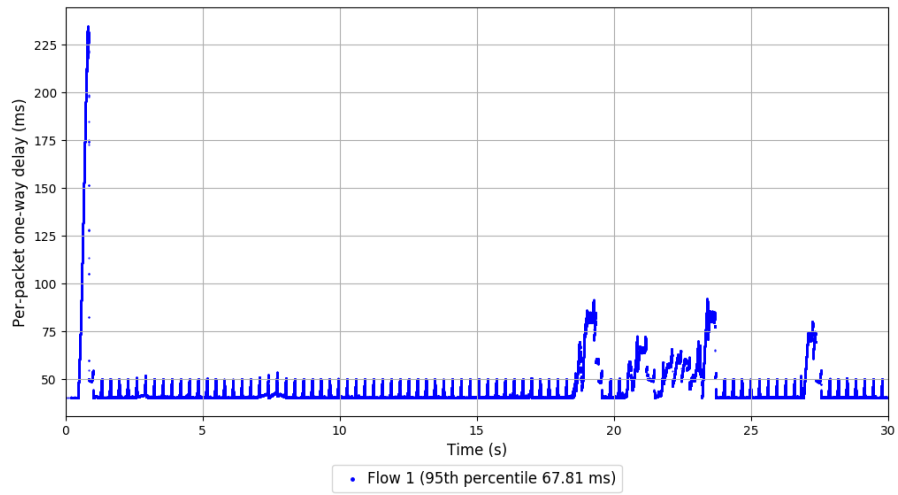
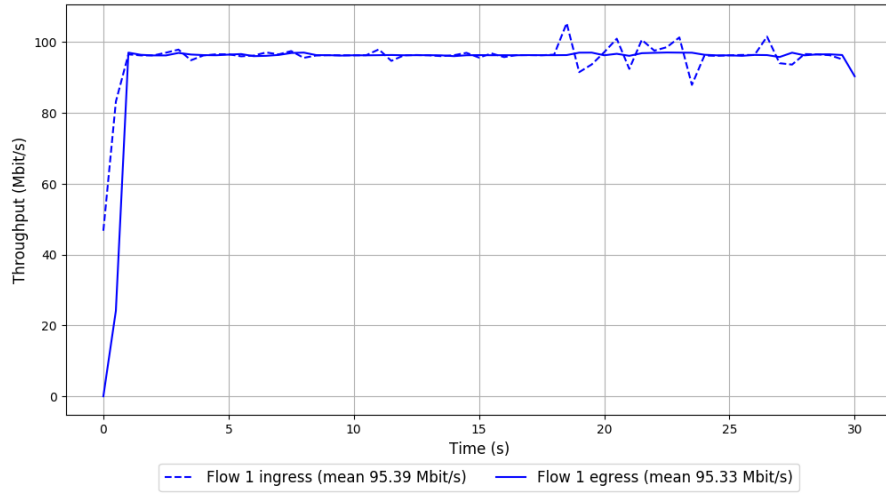


Run 4: Statistics of FillP

Start at: 2019-06-27 14:37:47  
End at: 2019-06-27 14:38:17  
Local clock offset: -3.318 ms  
Remote clock offset: -2.178 ms

# Below is generated by plot.py at 2019-06-27 15:31:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.33 Mbit/s  
95th percentile per-packet one-way delay: 67.813 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 95.33 Mbit/s  
95th percentile per-packet one-way delay: 67.813 ms  
Loss rate: 0.29%

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

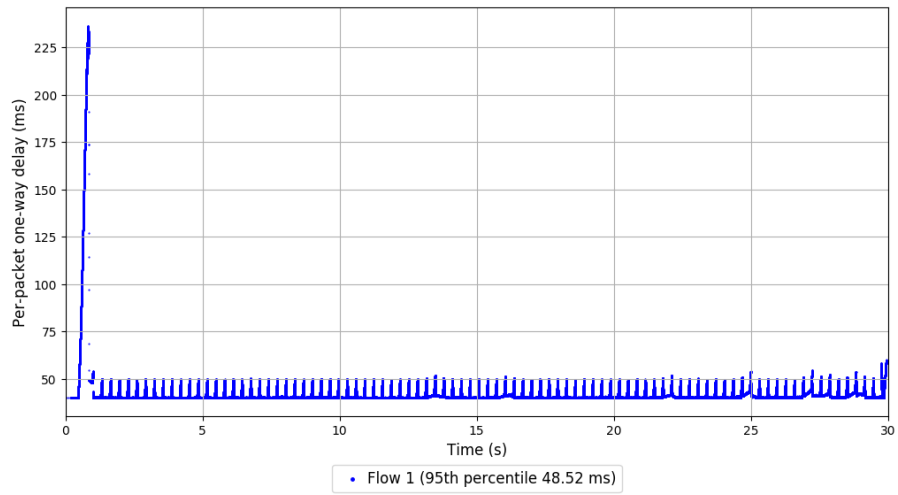
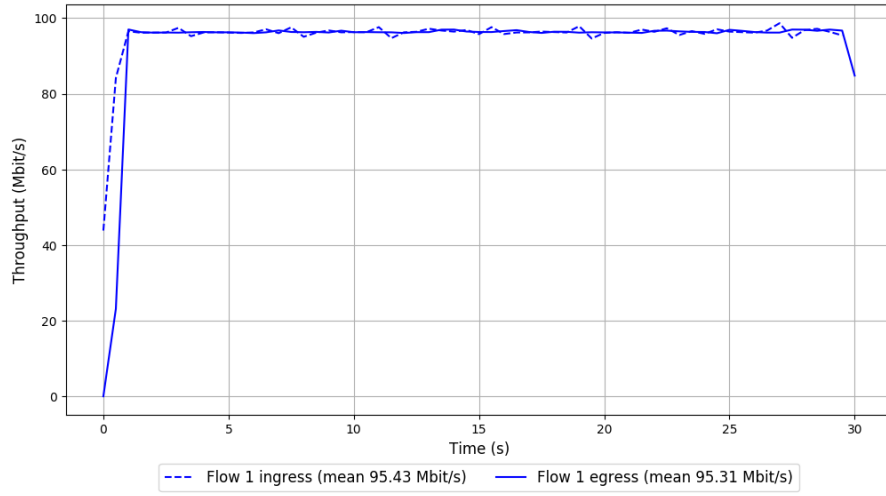


Run 5: Statistics of FillP

Start at: 2019-06-27 15:04:54  
End at: 2019-06-27 15:05:24  
Local clock offset: -3.105 ms  
Remote clock offset: -2.296 ms

# Below is generated by plot.py at 2019-06-27 15:32:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.31 Mbit/s  
95th percentile per-packet one-way delay: 48.515 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 95.31 Mbit/s  
95th percentile per-packet one-way delay: 48.515 ms  
Loss rate: 0.33%

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





Run 1: Statistics of FillP-Sheep

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

End at: 2019-06-27 13:13:30

Local clock offset: -3.0 ms

Remote clock offset: -3.28 ms

# Below is generated by plot.py at 2019-06-27 15:32:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 46.942 ms

Loss rate: 0.23%

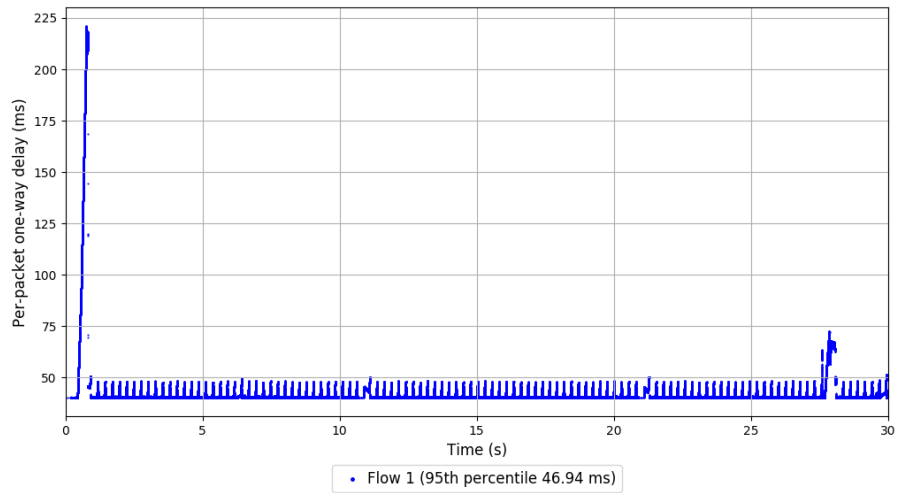
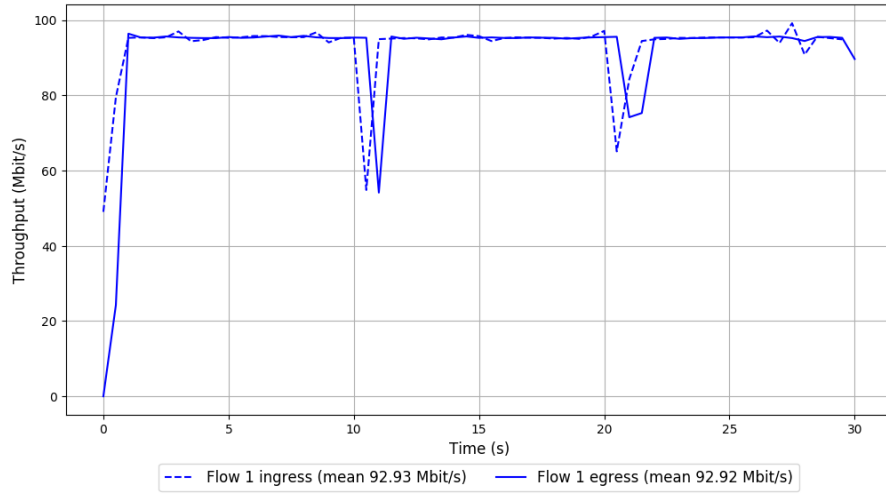
-- Flow 1:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 46.942 ms

Loss rate: 0.23%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-06-27 13:40:07

End at: 2019-06-27 13:40:37

Local clock offset: 0.567 ms

Remote clock offset: -2.055 ms

# Below is generated by plot.py at 2019-06-27 15:32:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 56.771 ms

Loss rate: 0.24%

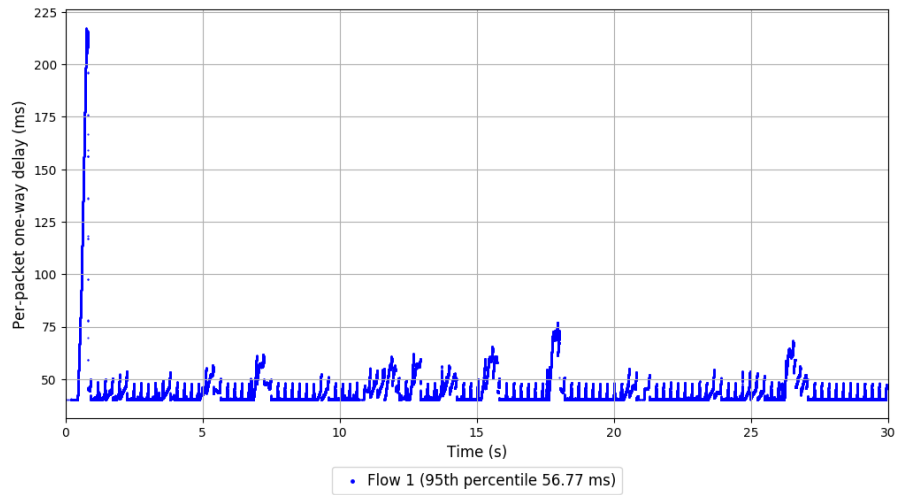
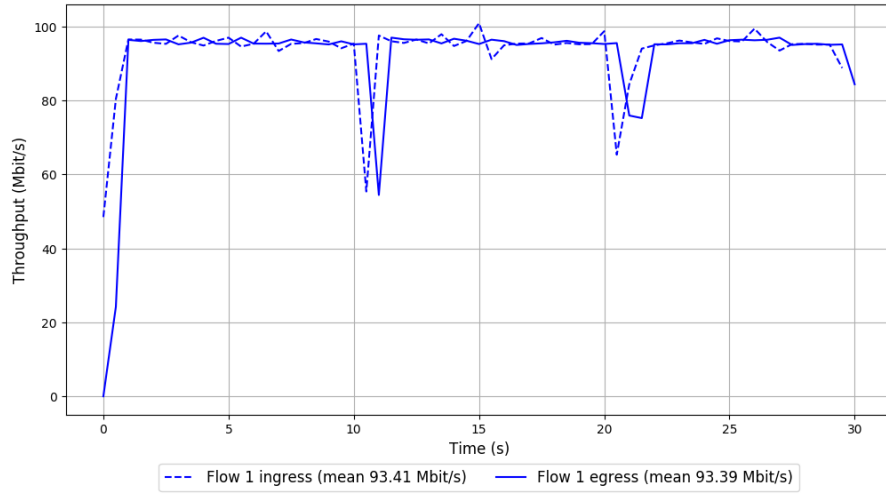
-- Flow 1:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 56.771 ms

Loss rate: 0.24%

## Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-06-27 14:07:32

End at: 2019-06-27 14:08:02

Local clock offset: 0.616 ms

Remote clock offset: -2.174 ms

# Below is generated by plot.py at 2019-06-27 15:32:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 47.305 ms

Loss rate: 0.23%

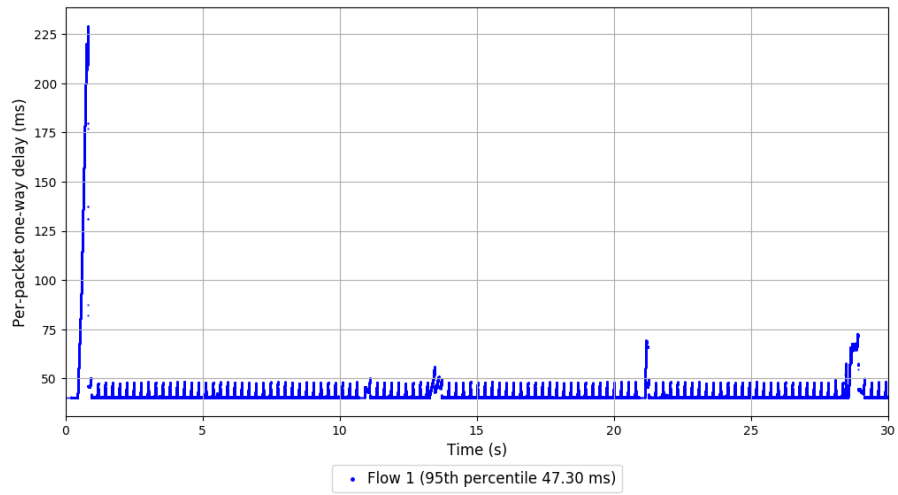
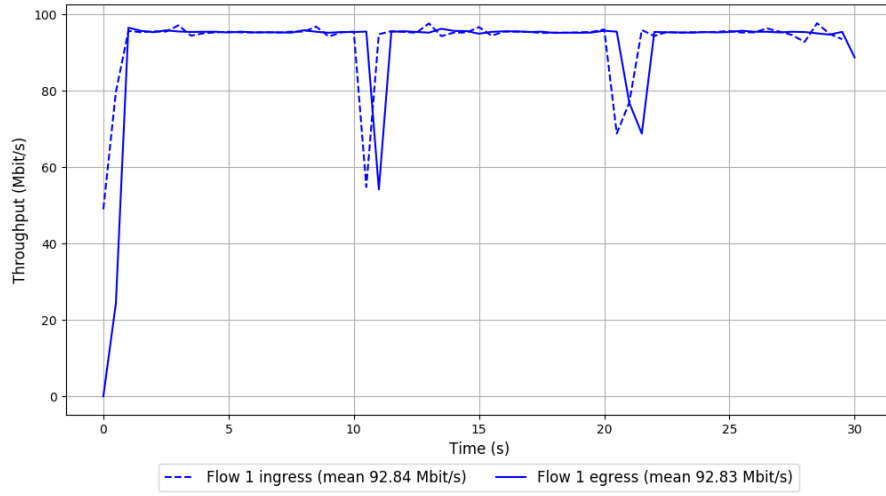
-- Flow 1:

Average throughput: 92.83 Mbit/s

95th percentile per-packet one-way delay: 47.305 ms

Loss rate: 0.23%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-06-27 14:34:54

End at: 2019-06-27 14:35:24

Local clock offset: -3.077 ms

Remote clock offset: -2.173 ms

# Below is generated by plot.py at 2019-06-27 15:32:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 58.048 ms

Loss rate: 0.26%

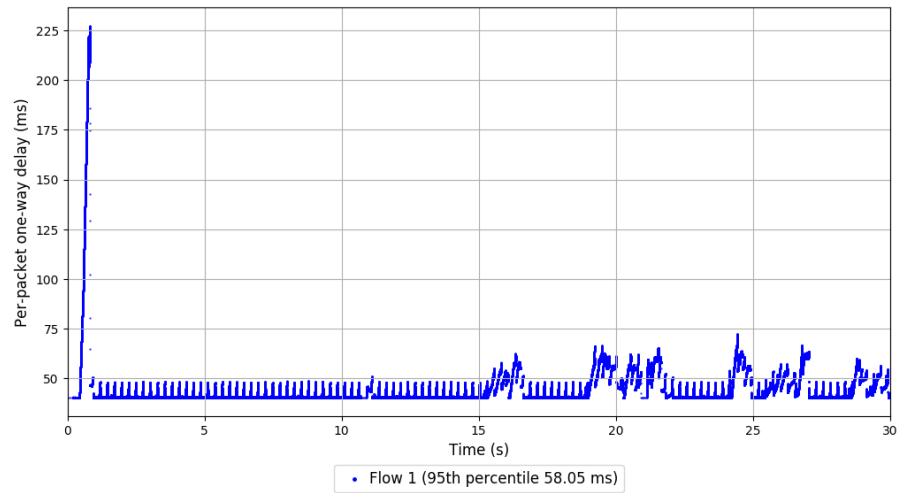
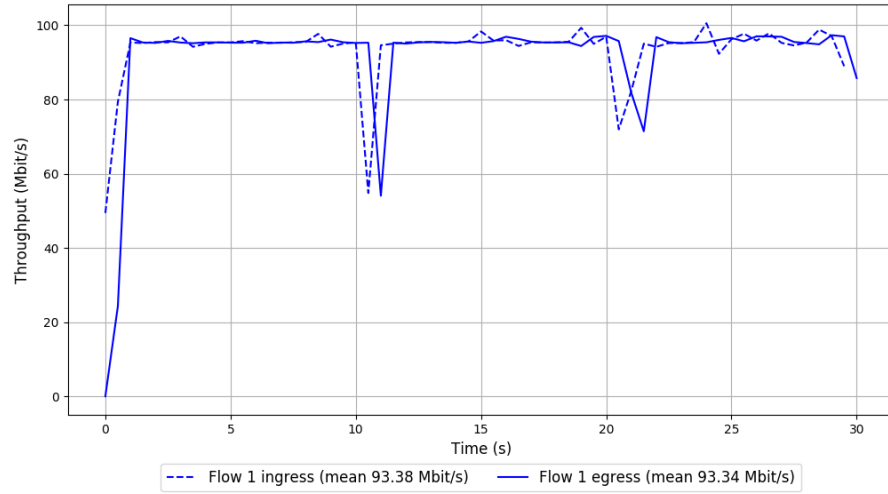
-- Flow 1:

Average throughput: 93.34 Mbit/s

95th percentile per-packet one-way delay: 58.048 ms

Loss rate: 0.26%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-06-27 15:02:30

End at: 2019-06-27 15:03:00

Local clock offset: -3.15 ms

Remote clock offset: -2.329 ms

# Below is generated by plot.py at 2019-06-27 15:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 47.235 ms

Loss rate: 0.31%

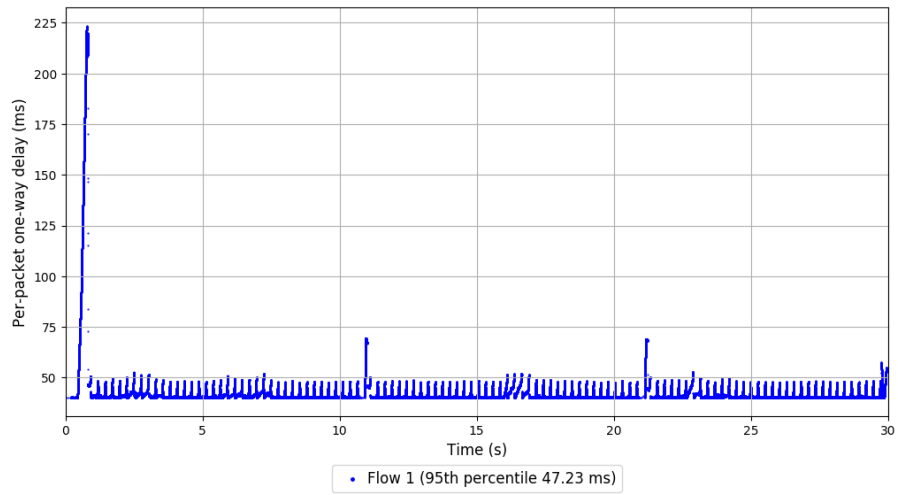
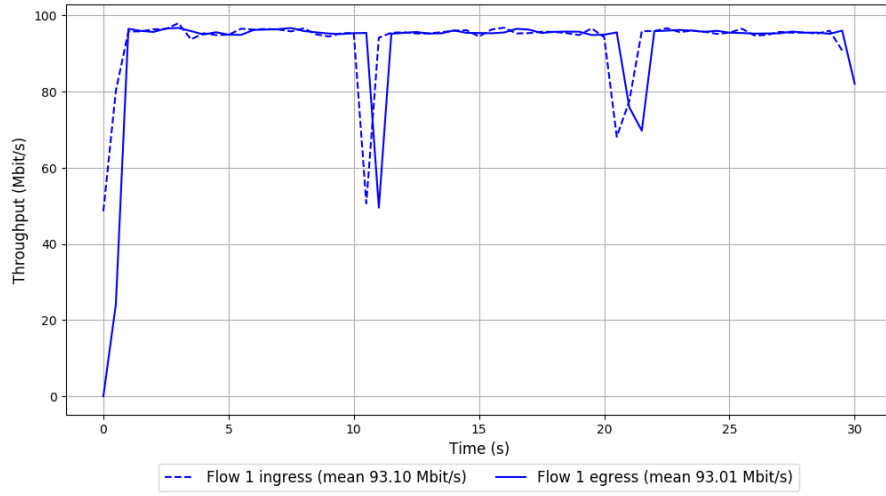
-- Flow 1:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 47.235 ms

Loss rate: 0.31%

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



Run 1: Statistics of Indigo

Start at: 2019-06-27 13:14:10  
End at: 2019-06-27 13:14:40  
Local clock offset: -3.04 ms  
Remote clock offset: -3.179 ms

# Below is generated by plot.py at 2019-06-27 15:32:48

# Datalink statistics

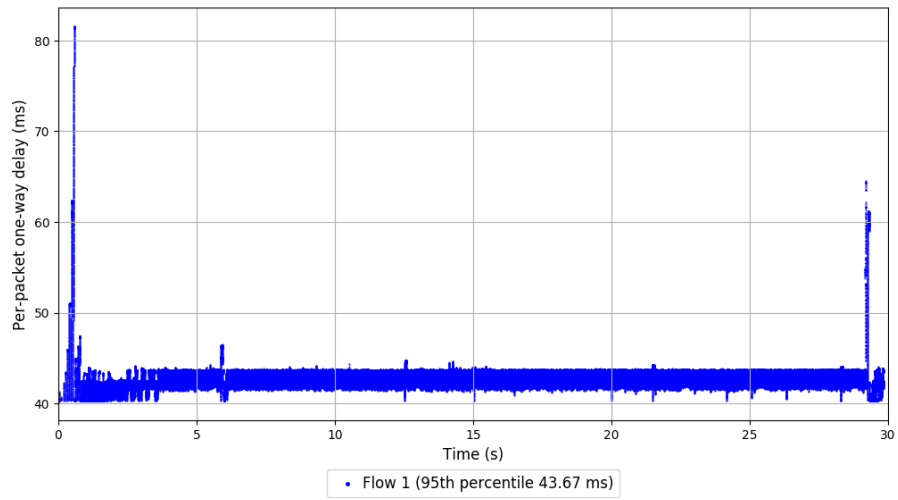
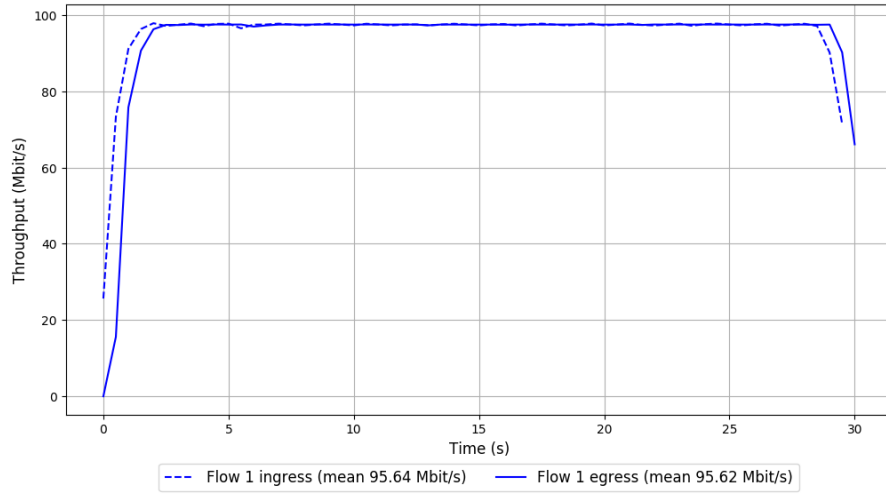
-- Total of 1 flow:

Average throughput: 95.62 Mbit/s  
95th percentile per-packet one-way delay: 43.666 ms  
Loss rate: 0.23%

-- Flow 1:

Average throughput: 95.62 Mbit/s  
95th percentile per-packet one-way delay: 43.666 ms  
Loss rate: 0.23%

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



Run 2: Statistics of Indigo

Start at: 2019-06-27 13:41:28

End at: 2019-06-27 13:41:58

Local clock offset: 0.604 ms

Remote clock offset: -1.959 ms

# Below is generated by plot.py at 2019-06-27 15:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 44.805 ms

Loss rate: 0.23%

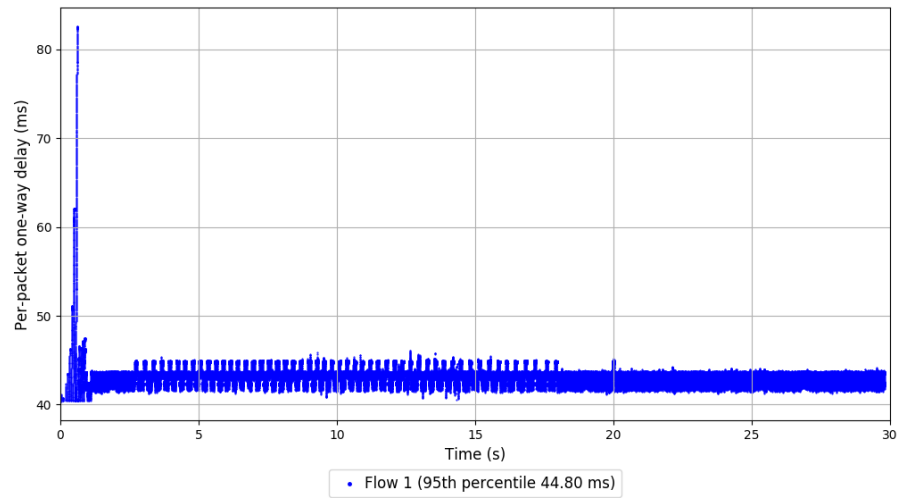
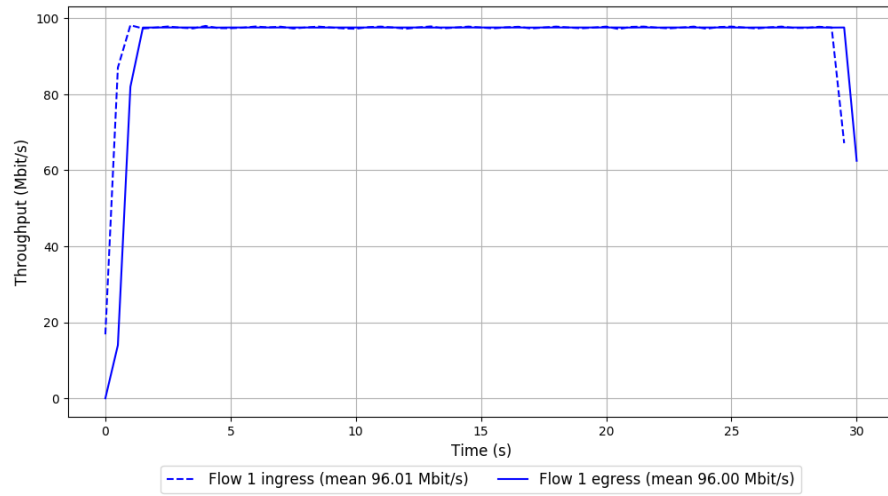
-- Flow 1:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 44.805 ms

Loss rate: 0.23%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-06-27 14:08:43

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

Local clock offset: 0.628 ms

Remote clock offset: -2.168 ms

# Below is generated by plot.py at 2019-06-27 15:33:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 43.684 ms

Loss rate: 0.23%

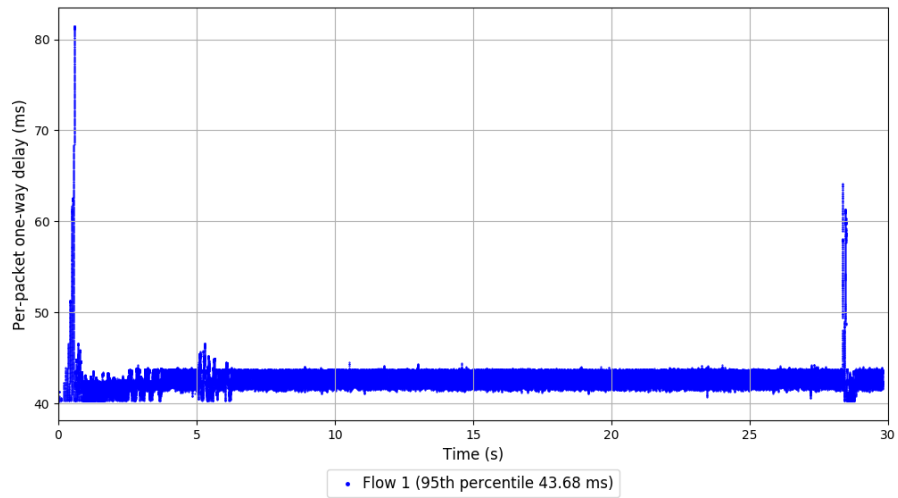
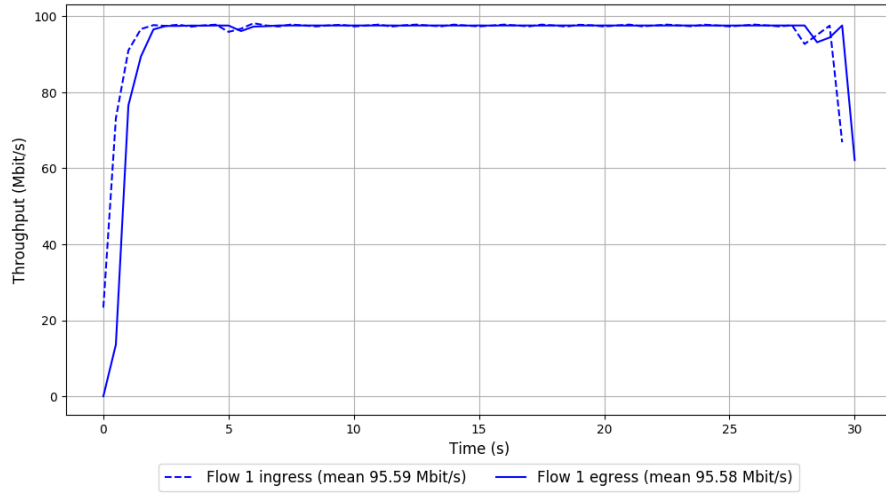
-- Flow 1:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 43.684 ms

Loss rate: 0.23%

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



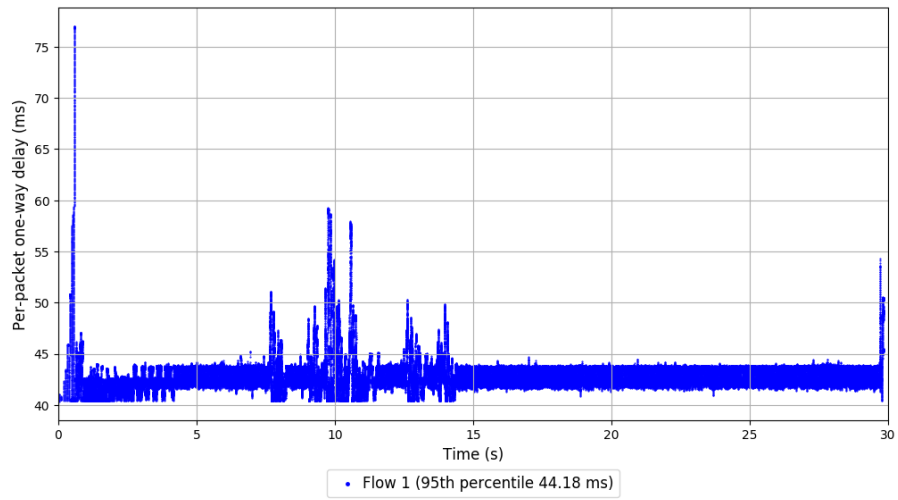
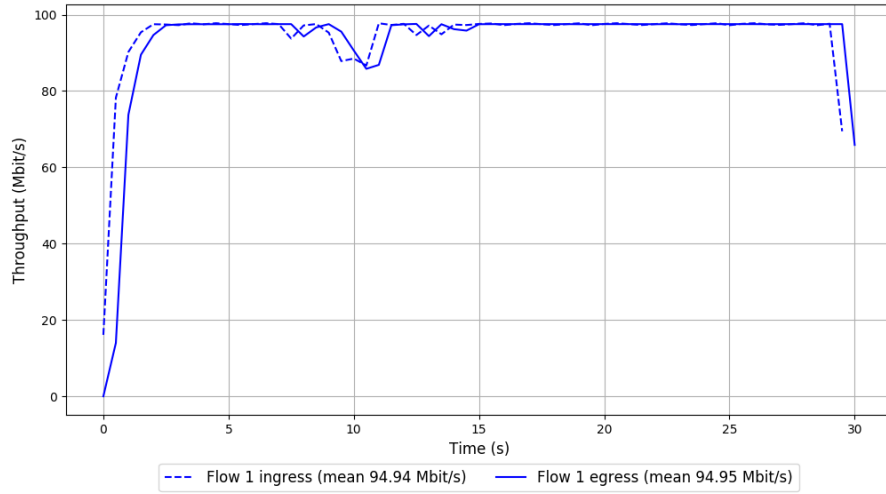


Run 4: Statistics of Indigo

Start at: 2019-06-27 14:36:22  
End at: 2019-06-27 14:36:52  
Local clock offset: -3.171 ms  
Remote clock offset: -2.198 ms

# Below is generated by plot.py at 2019-06-27 15:33:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.95 Mbit/s  
95th percentile per-packet one-way delay: 44.181 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 94.95 Mbit/s  
95th percentile per-packet one-way delay: 44.181 ms  
Loss rate: 0.21%

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

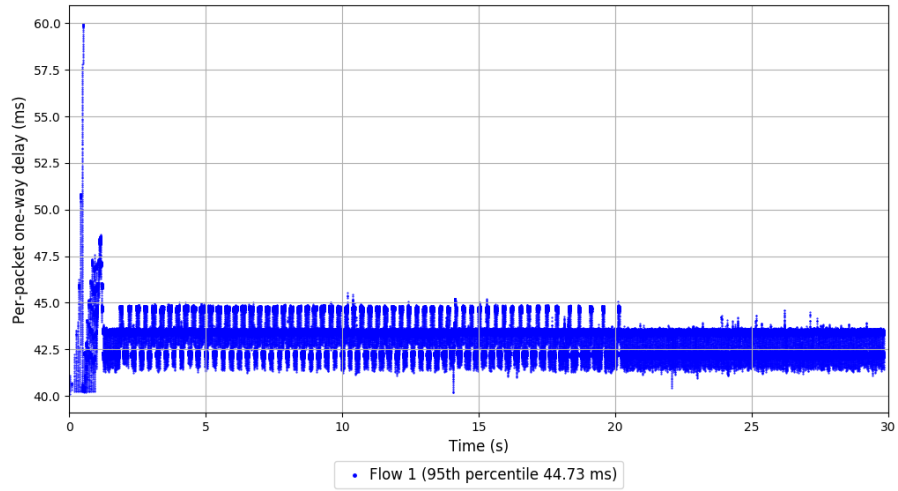
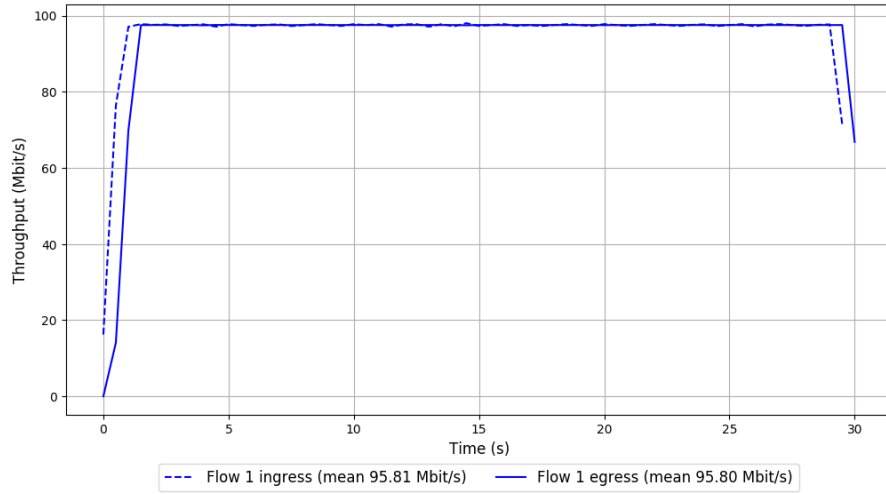


Run 5: Statistics of Indigo

Start at: 2019-06-27 15:03:41  
End at: 2019-06-27 15:04:11  
Local clock offset: -3.144 ms  
Remote clock offset: -2.325 ms

# Below is generated by plot.py at 2019-06-27 15:33:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.80 Mbit/s  
95th percentile per-packet one-way delay: 44.728 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 95.80 Mbit/s  
95th percentile per-packet one-way delay: 44.728 ms  
Loss rate: 0.23%

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

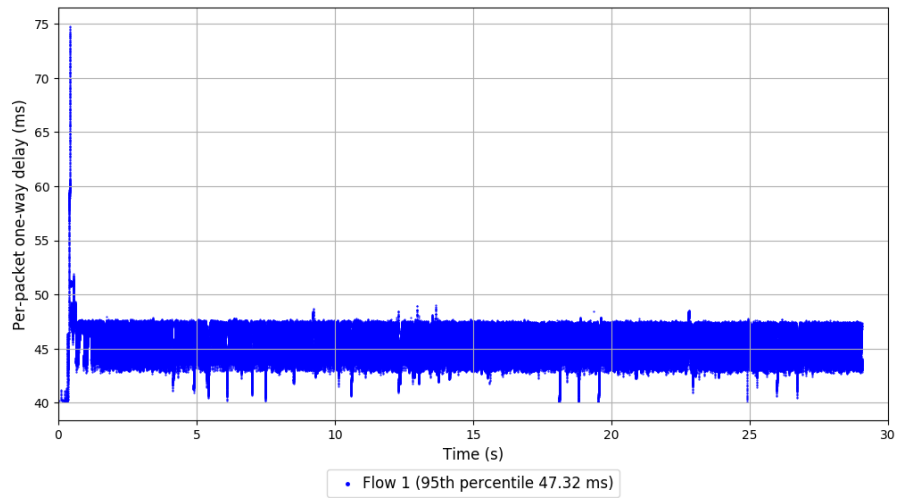
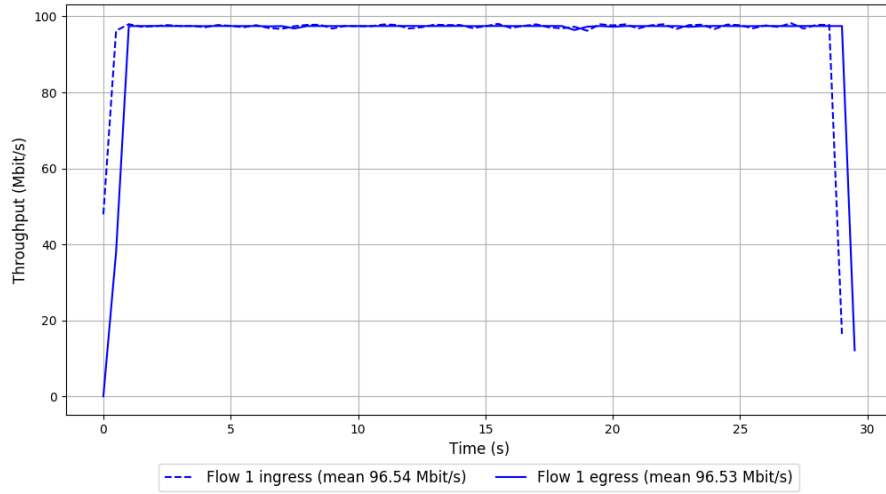


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-06-27 13:19:56  
End at: 2019-06-27 13:20:26  
Local clock offset: -2.477 ms  
Remote clock offset: -3.066 ms

# Below is generated by plot.py at 2019-06-27 15:33:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.53 Mbit/s  
95th percentile per-packet one-way delay: 47.323 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 96.53 Mbit/s  
95th percentile per-packet one-way delay: 47.323 ms  
Loss rate: 0.24%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-06-27 13:47:38

End at: 2019-06-27 13:48:08

Local clock offset: 0.904 ms

Remote clock offset: -1.623 ms

# Below is generated by plot.py at 2019-06-27 15:33:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 47.254 ms

Loss rate: 0.24%

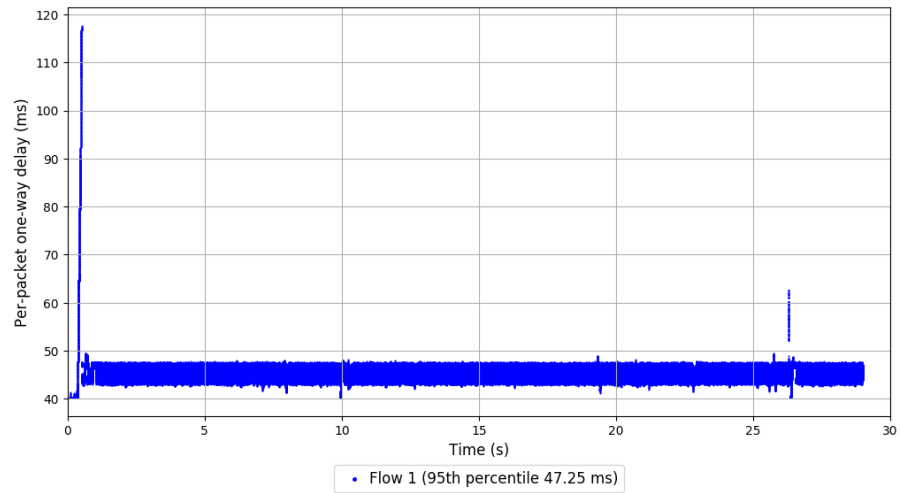
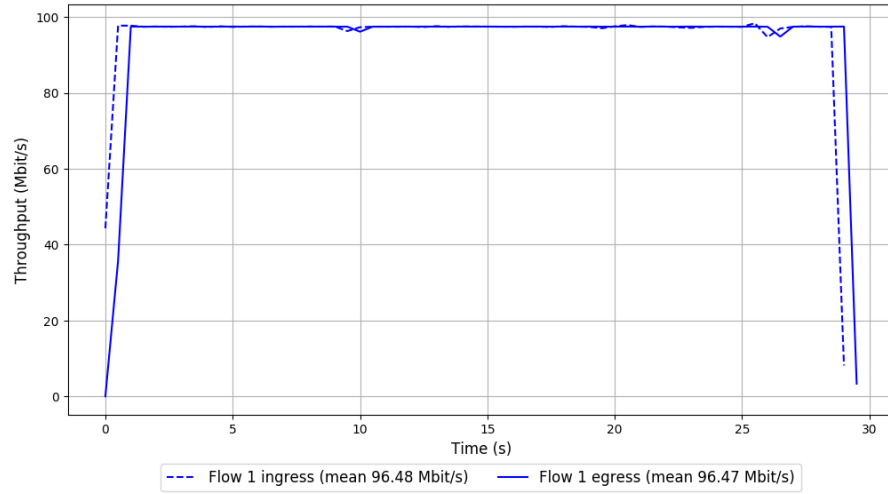
-- Flow 1:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 47.254 ms

Loss rate: 0.24%

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





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-06-27 14:14:34

End at: 2019-06-27 14:15:04

Local clock offset: 0.704 ms

Remote clock offset: -2.186 ms

# Below is generated by plot.py at 2019-06-27 15:33:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 47.392 ms

Loss rate: 0.25%

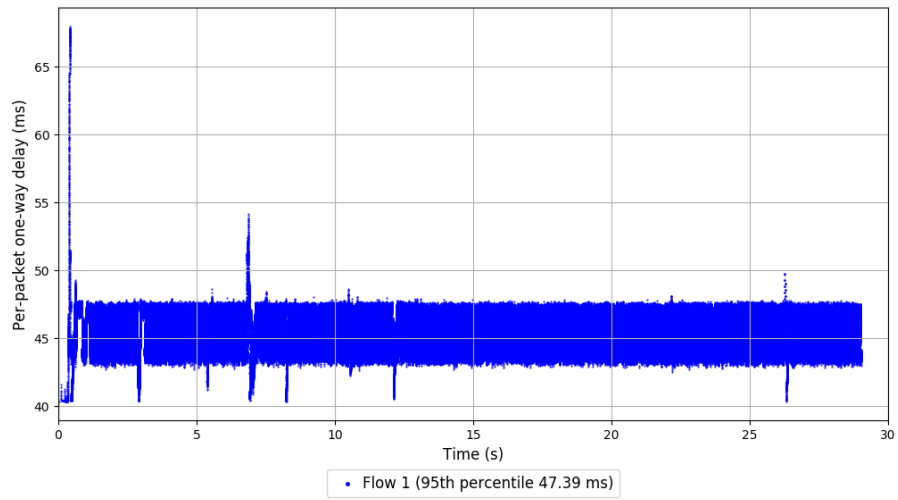
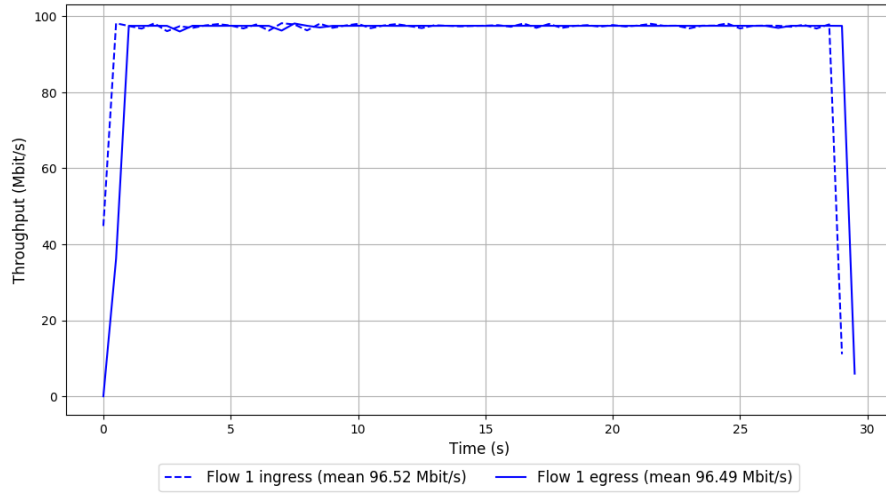
-- Flow 1:

Average throughput: 96.49 Mbit/s

95th percentile per-packet one-way delay: 47.392 ms

Loss rate: 0.25%

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

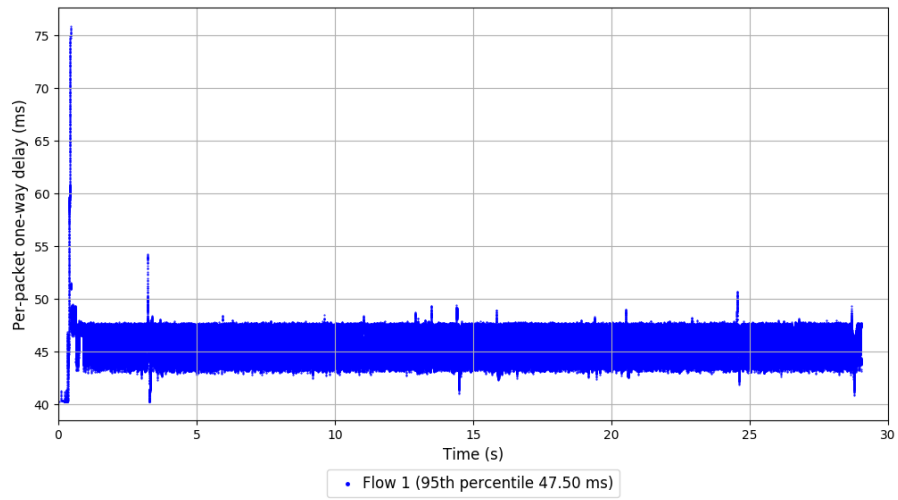
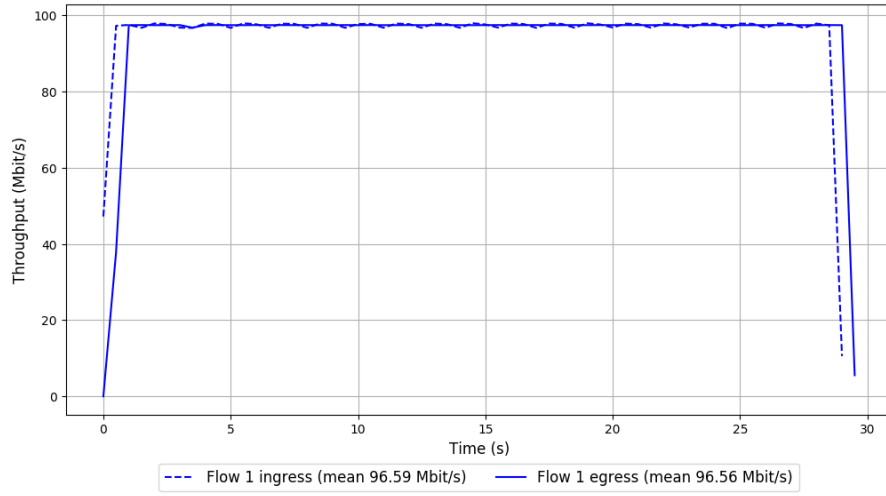


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-06-27 14:42:29  
End at: 2019-06-27 14:42:59  
Local clock offset: -3.633 ms  
Remote clock offset: -2.284 ms

# Below is generated by plot.py at 2019-06-27 15:33:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.56 Mbit/s  
95th percentile per-packet one-way delay: 47.503 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 96.56 Mbit/s  
95th percentile per-packet one-way delay: 47.503 ms  
Loss rate: 0.25%

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

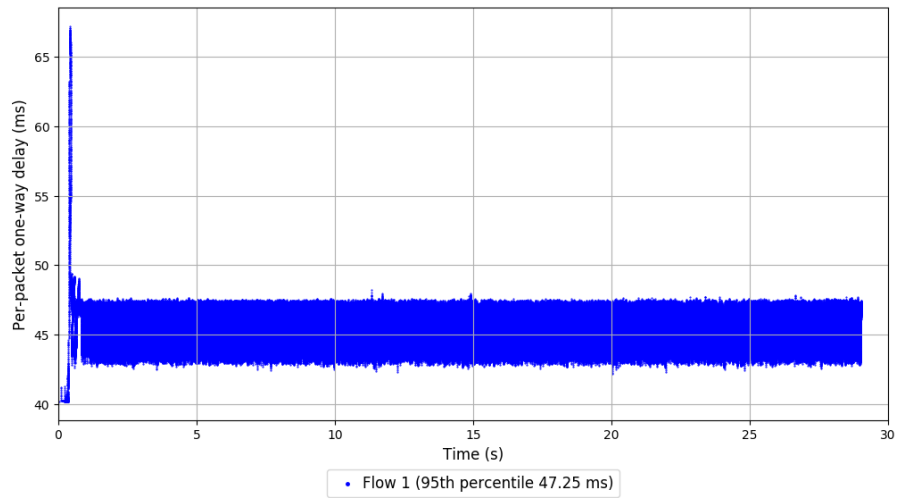
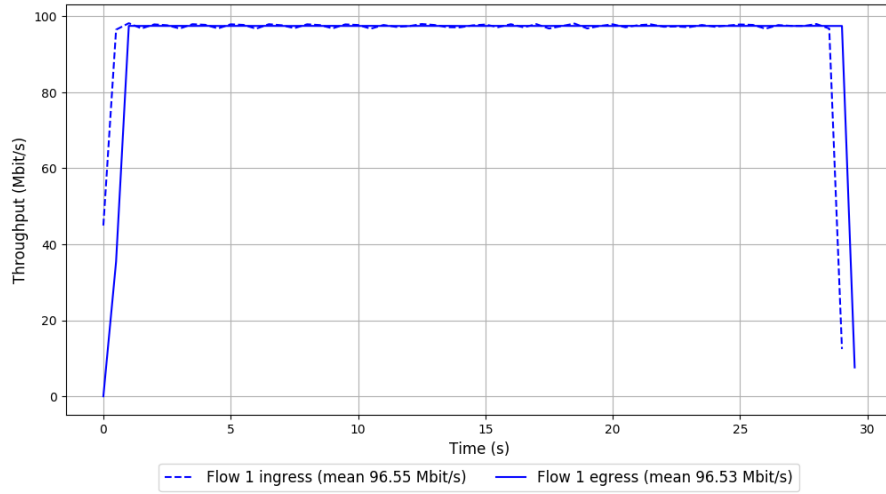


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-06-27 15:09:30  
End at: 2019-06-27 15:10:00  
Local clock offset: -3.137 ms  
Remote clock offset: -2.189 ms

```
# Below is generated by plot.py at 2019-06-27 15:34:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 47.248 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 47.248 ms
Loss rate: 0.24%
```

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

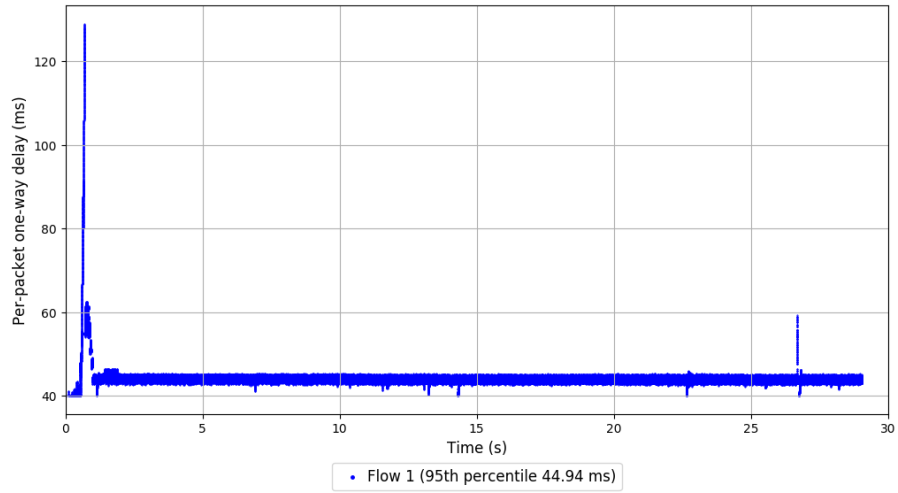
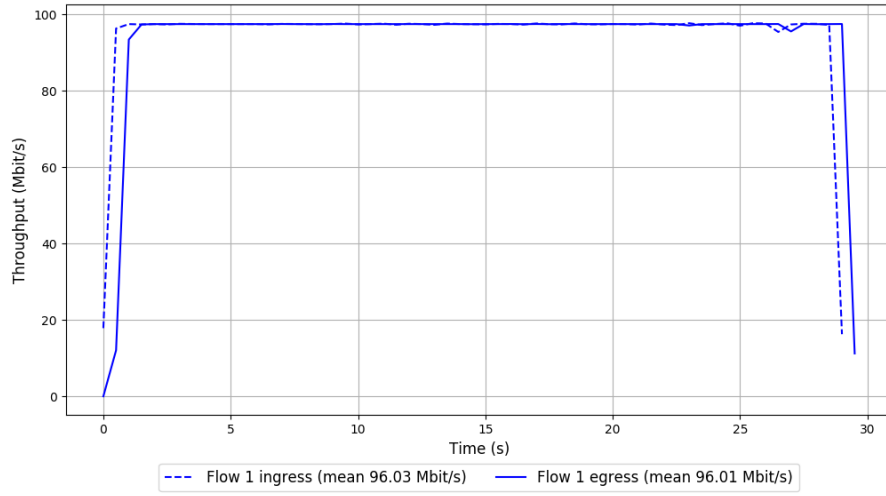


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-06-27 13:22:19  
End at: 2019-06-27 13:22:49  
Local clock offset: -1.765 ms  
Remote clock offset: -2.944 ms

# Below is generated by plot.py at 2019-06-27 15:34:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.01 Mbit/s  
95th percentile per-packet one-way delay: 44.944 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 96.01 Mbit/s  
95th percentile per-packet one-way delay: 44.944 ms  
Loss rate: 0.24%

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





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-06-27 13:50:08

End at: 2019-06-27 13:50:38

Local clock offset: 0.834 ms

Remote clock offset: -1.689 ms

# Below is generated by plot.py at 2019-06-27 15:34:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 45.010 ms

Loss rate: 0.24%

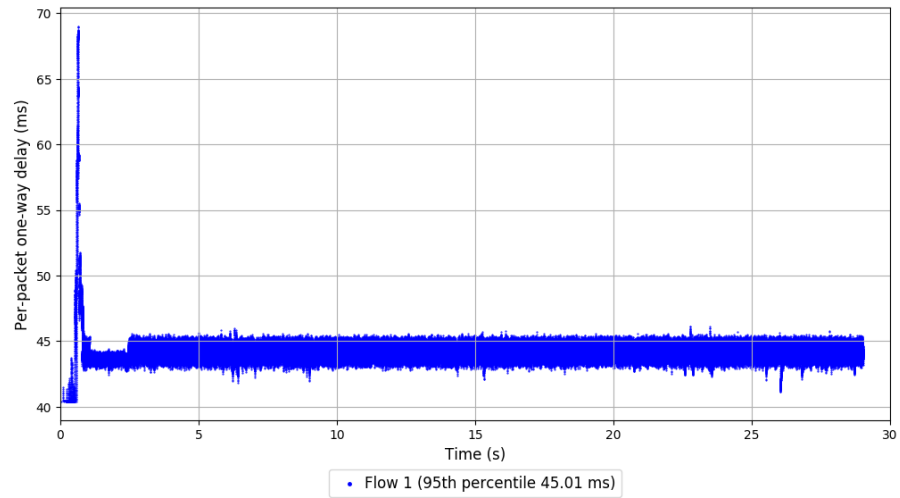
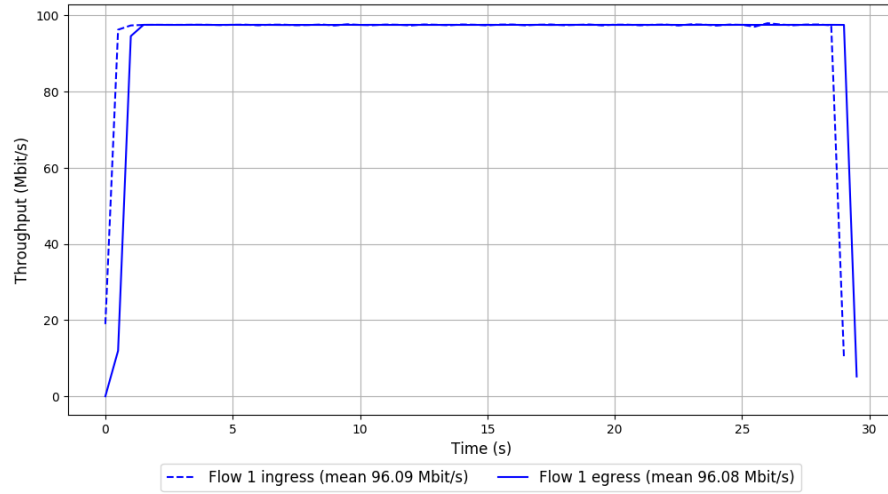
-- Flow 1:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 45.010 ms

Loss rate: 0.24%

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



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-06-27 14:17:04

End at: 2019-06-27 14:17:34

Local clock offset: 0.75 ms

Remote clock offset: -2.215 ms

# Below is generated by plot.py at 2019-06-27 15:34:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 44.353 ms

Loss rate: 0.24%

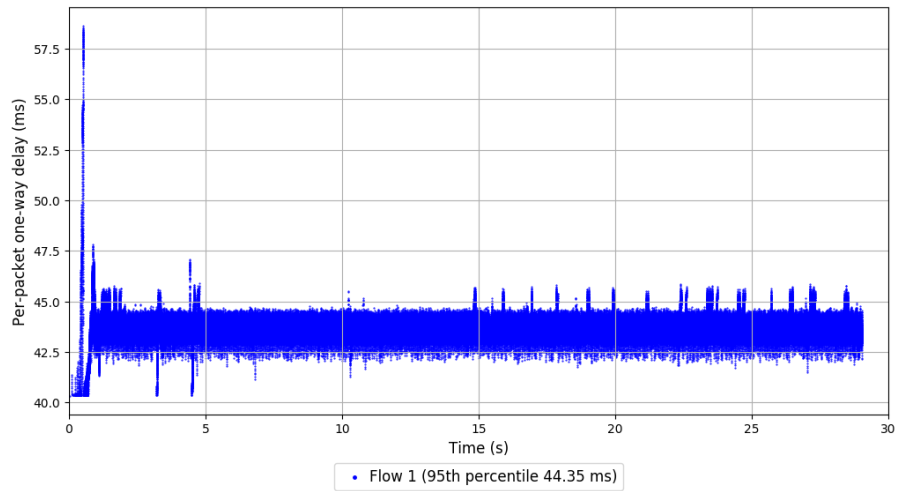
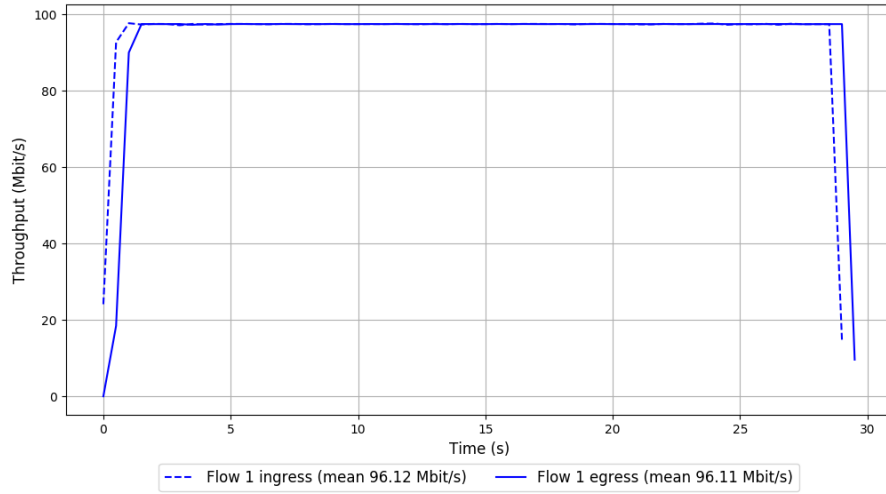
-- Flow 1:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 44.353 ms

Loss rate: 0.24%

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

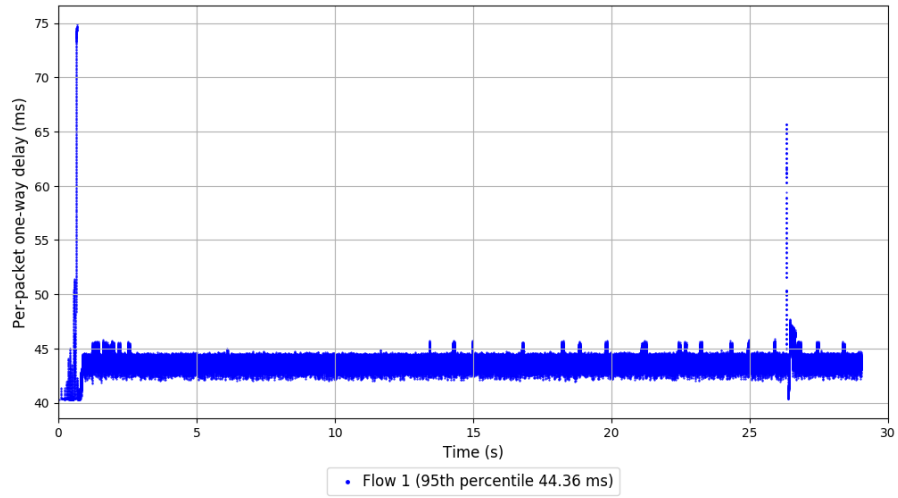
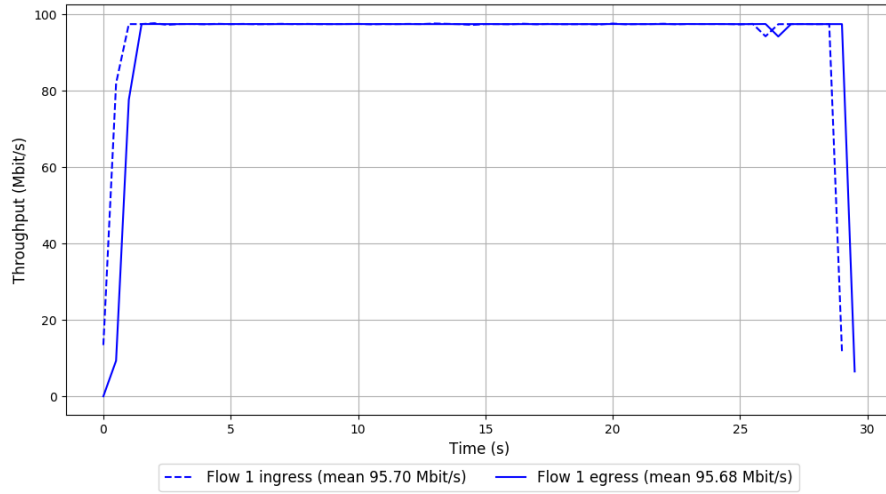


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-06-27 14:44:55  
End at: 2019-06-27 14:45:25  
Local clock offset: -3.773 ms  
Remote clock offset: -2.227 ms

# Below is generated by plot.py at 2019-06-27 15:34:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.68 Mbit/s  
95th percentile per-packet one-way delay: 44.359 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 95.68 Mbit/s  
95th percentile per-packet one-way delay: 44.359 ms  
Loss rate: 0.25%

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

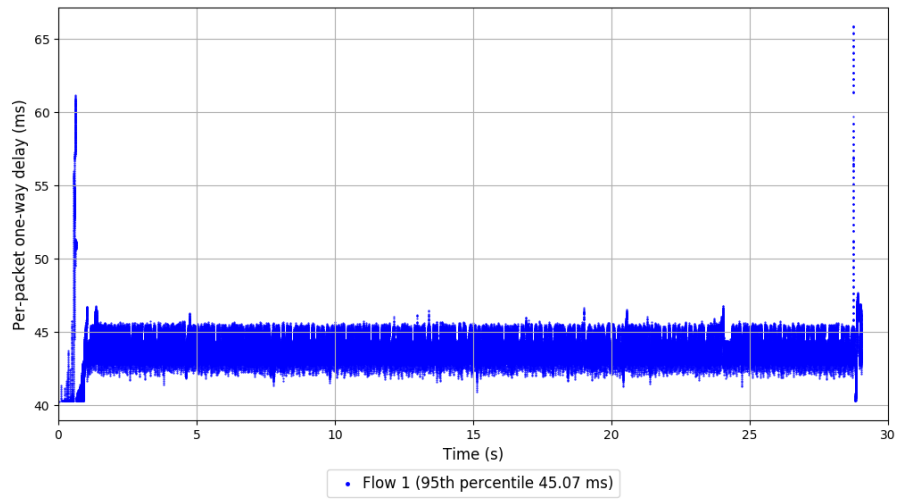
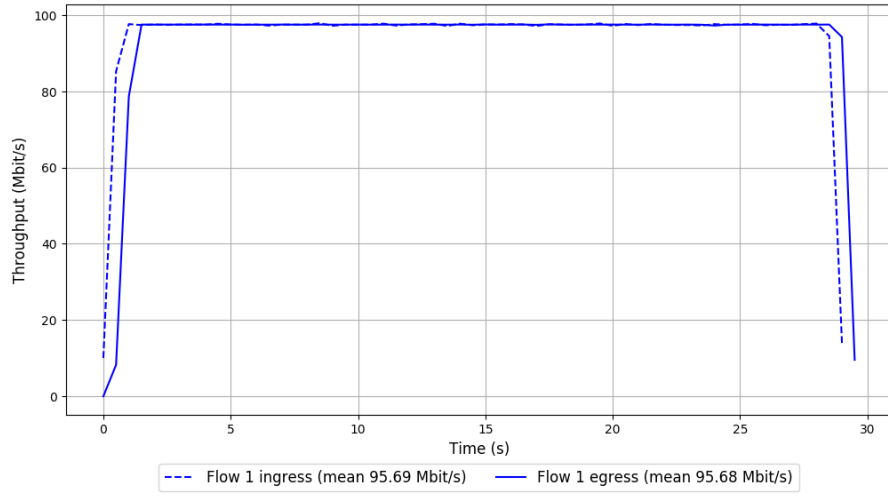


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-06-27 15:11:54  
End at: 2019-06-27 15:12:24  
Local clock offset: -3.149 ms  
Remote clock offset: -2.286 ms

# Below is generated by plot.py at 2019-06-27 15:35:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.68 Mbit/s  
95th percentile per-packet one-way delay: 45.069 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 95.68 Mbit/s  
95th percentile per-packet one-way delay: 45.069 ms  
Loss rate: 0.24%

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



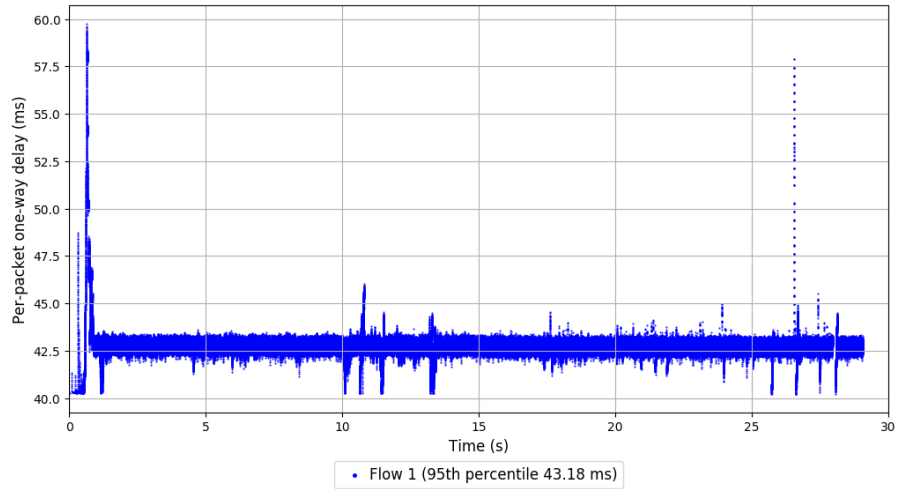
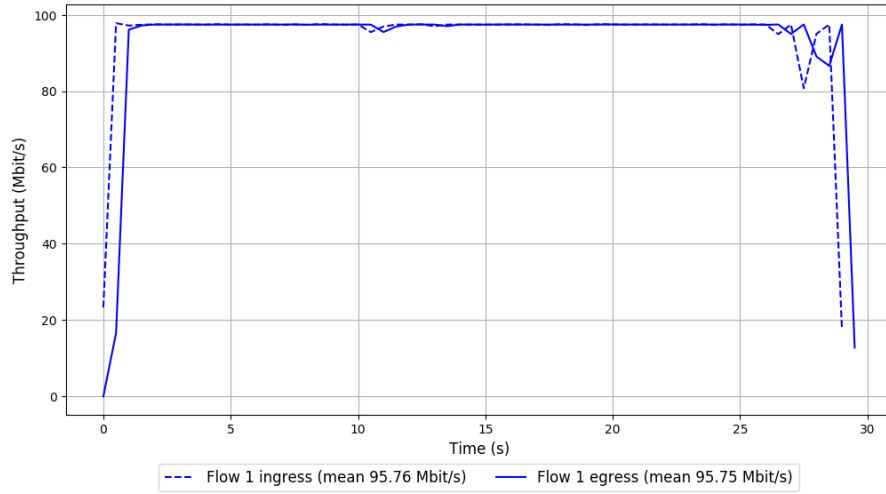


Run 1: Statistics of Indigo-MusesD

Start at: 2019-06-27 13:23:30  
End at: 2019-06-27 13:24:00  
Local clock offset: -1.436 ms  
Remote clock offset: -2.899 ms

# Below is generated by plot.py at 2019-06-27 15:35:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 43.182 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 43.182 ms  
Loss rate: 0.24%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-06-27 13:51:22

End at: 2019-06-27 13:51:52

Local clock offset: 0.771 ms

Remote clock offset: -1.74 ms

# Below is generated by plot.py at 2019-06-27 15:35:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 43.284 ms

Loss rate: 0.24%

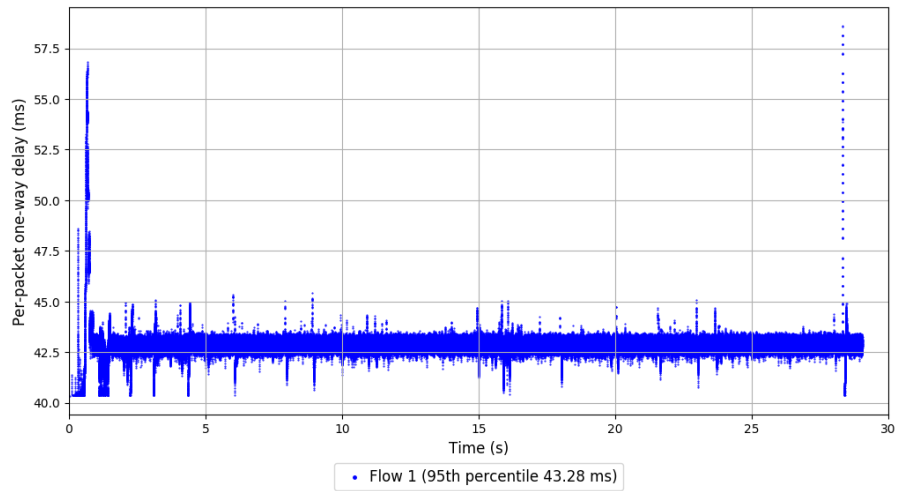
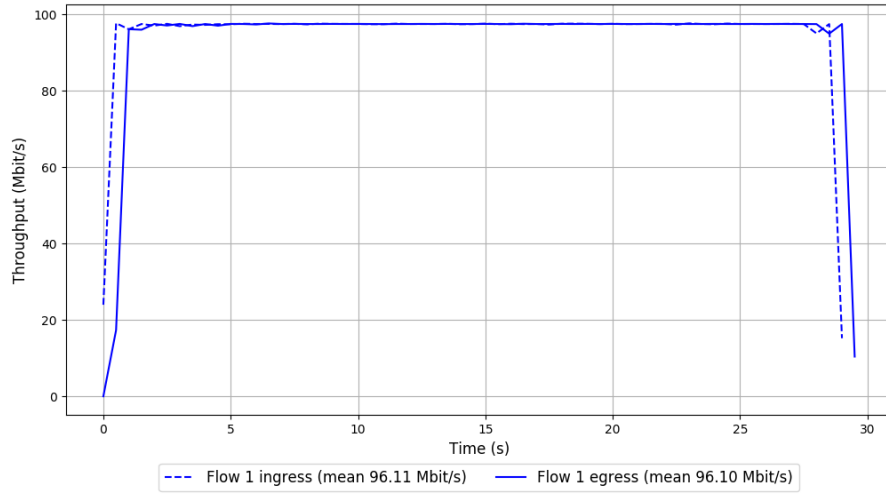
-- Flow 1:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 43.284 ms

Loss rate: 0.24%

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



Run 3: Statistics of Indigo-MusesD

Start at: 2019-06-27 14:18:18

End at: 2019-06-27 14:18:48

Local clock offset: 0.735 ms

Remote clock offset: -2.295 ms

# Below is generated by plot.py at 2019-06-27 15:35:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 43.595 ms

Loss rate: 0.23%

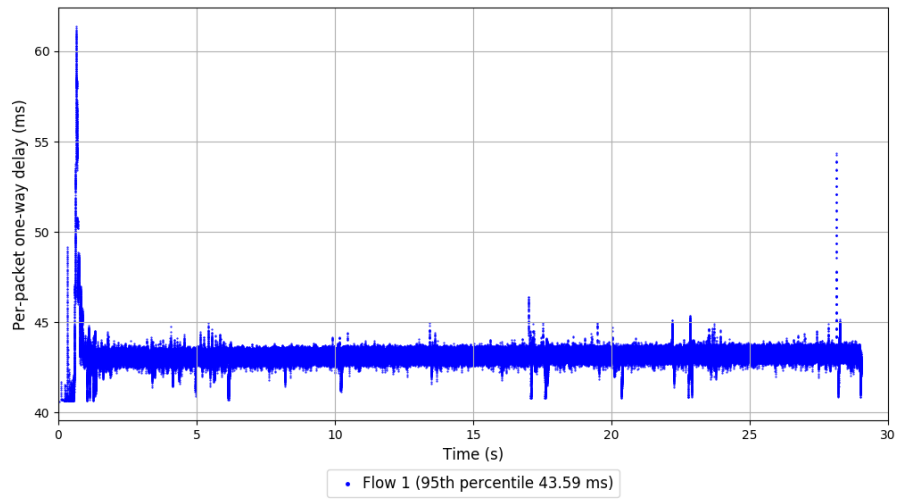
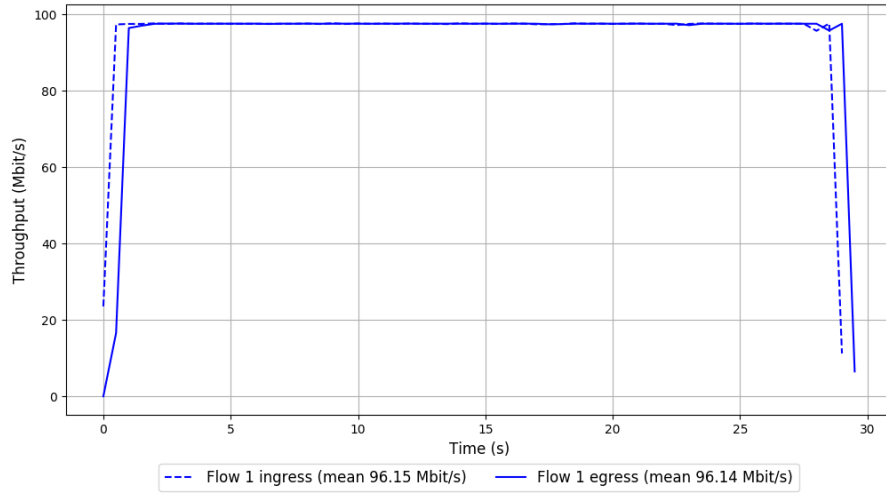
-- Flow 1:

Average throughput: 96.14 Mbit/s

95th percentile per-packet one-way delay: 43.595 ms

Loss rate: 0.23%

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

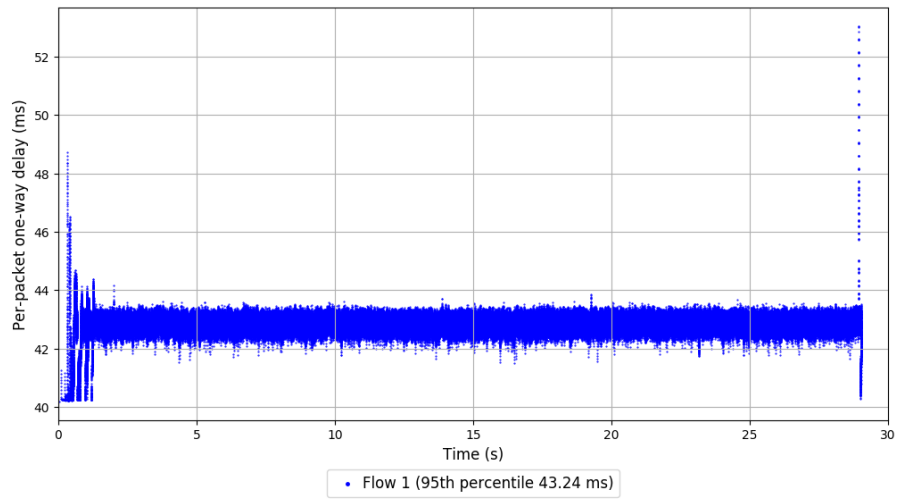
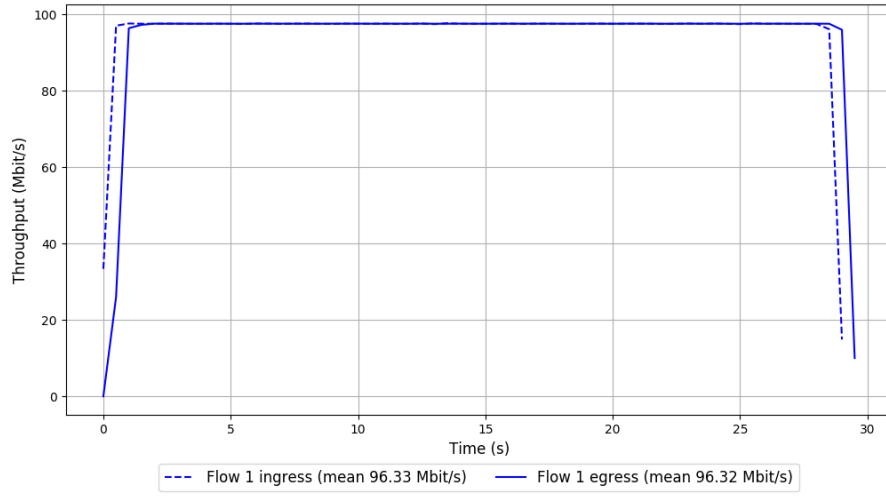


Run 4: Statistics of Indigo-MusesD

Start at: 2019-06-27 14:46:15  
End at: 2019-06-27 14:46:45  
Local clock offset: -3.858 ms  
Remote clock offset: -2.223 ms

# Below is generated by plot.py at 2019-06-27 15:35:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.32 Mbit/s  
95th percentile per-packet one-way delay: 43.236 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 96.32 Mbit/s  
95th percentile per-packet one-way delay: 43.236 ms  
Loss rate: 0.24%

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





Run 5: Statistics of Indigo-MusesD

Start at: 2019-06-27 15:13:09

End at: 2019-06-27 15:13:39

Local clock offset: -3.143 ms

Remote clock offset: -2.319 ms

# Below is generated by plot.py at 2019-06-27 15:35:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 43.922 ms

Loss rate: 0.24%

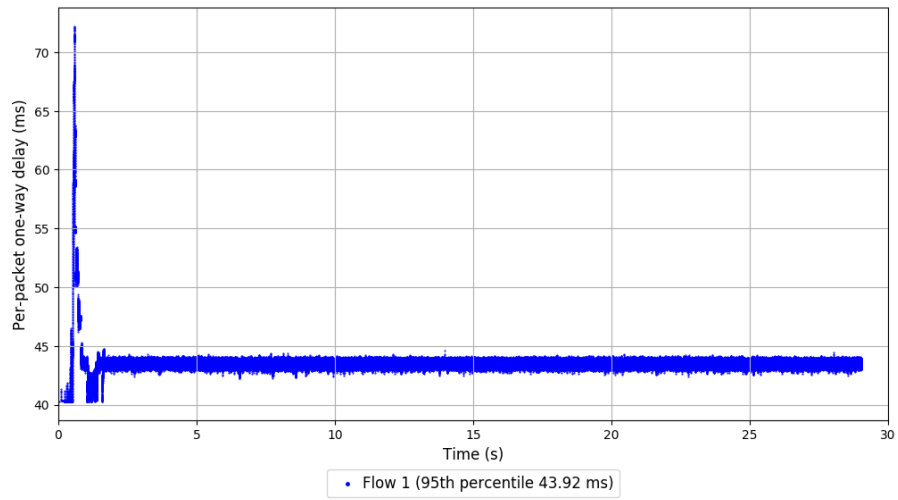
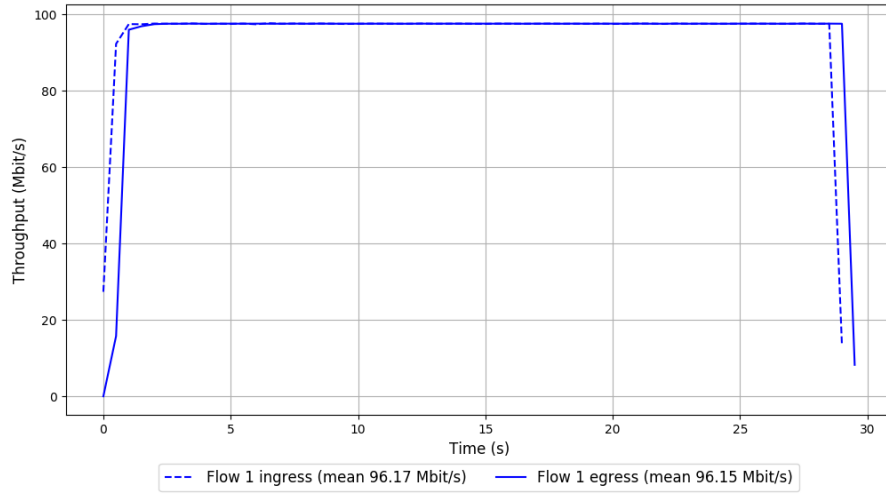
-- Flow 1:

Average throughput: 96.15 Mbit/s

95th percentile per-packet one-way delay: 43.922 ms

Loss rate: 0.24%

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

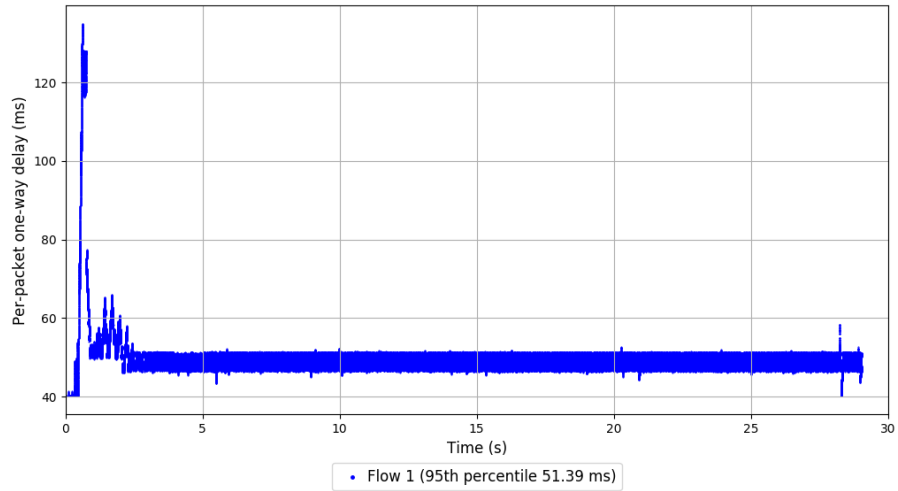
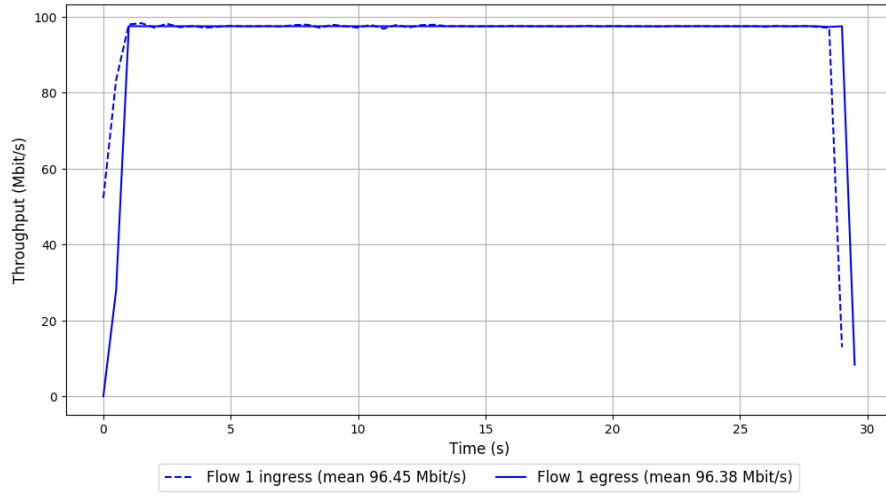


Run 1: Statistics of Indigo-MusesT

Start at: 2019-06-27 13:32:16  
End at: 2019-06-27 13:32:46  
Local clock offset: -0.091 ms  
Remote clock offset: -2.488 ms

# Below is generated by plot.py at 2019-06-27 15:35:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.38 Mbit/s  
95th percentile per-packet one-way delay: 51.393 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 96.38 Mbit/s  
95th percentile per-packet one-way delay: 51.393 ms  
Loss rate: 0.28%

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



Run 2: Statistics of Indigo-MusesT

Start at: 2019-06-27 14:00:00

End at: 2019-06-27 14:00:30

Local clock offset: 0.572 ms

Remote clock offset: -2.033 ms

# Below is generated by plot.py at 2019-06-27 15:35:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.26%

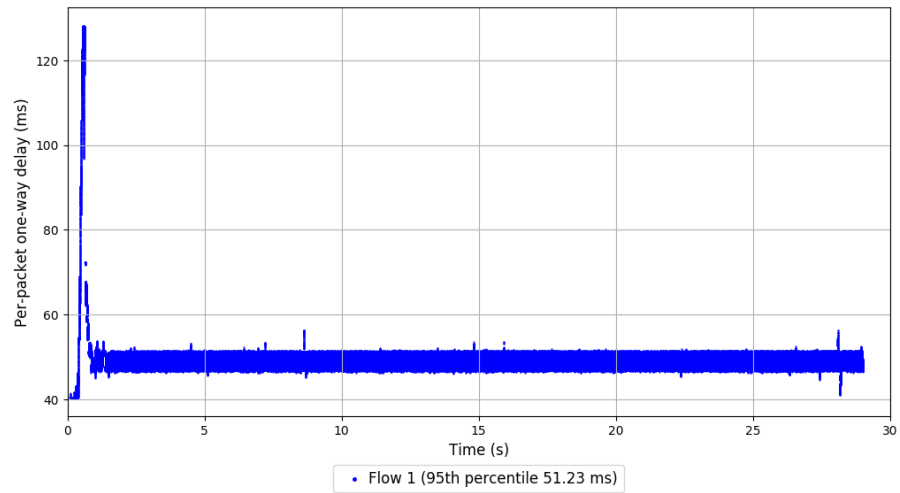
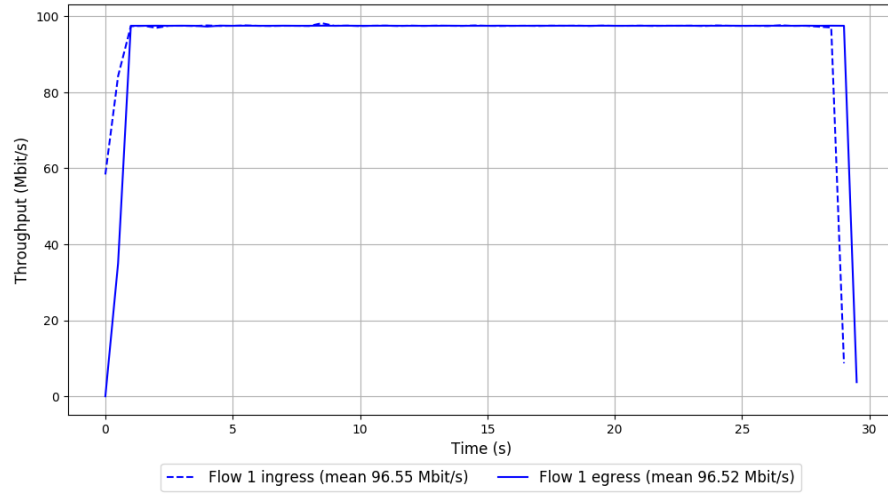
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.26%

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



Run 3: Statistics of Indigo-MusesT

Start at: 2019-06-27 14:27:08

End at: 2019-06-27 14:27:38

Local clock offset: -1.986 ms

Remote clock offset: -2.174 ms

# Below is generated by plot.py at 2019-06-27 15:36:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 51.279 ms

Loss rate: 0.29%

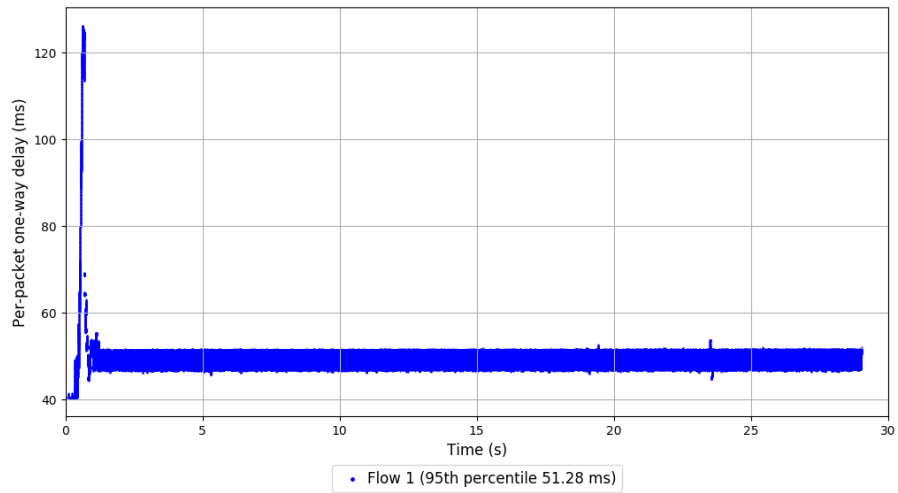
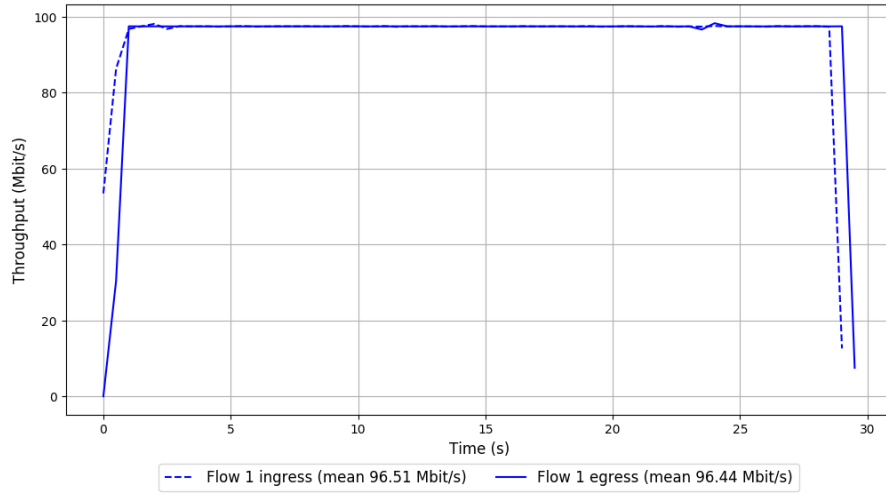
-- Flow 1:

Average throughput: 96.44 Mbit/s

95th percentile per-packet one-way delay: 51.279 ms

Loss rate: 0.29%

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





Run 4: Statistics of Indigo-MuseST

Start at: 2019-06-27 14:54:52

End at: 2019-06-27 14:55:22

Local clock offset: -3.376 ms

Remote clock offset: -2.301 ms

# Below is generated by plot.py at 2019-06-27 15:36:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 54.752 ms

Loss rate: 0.29%

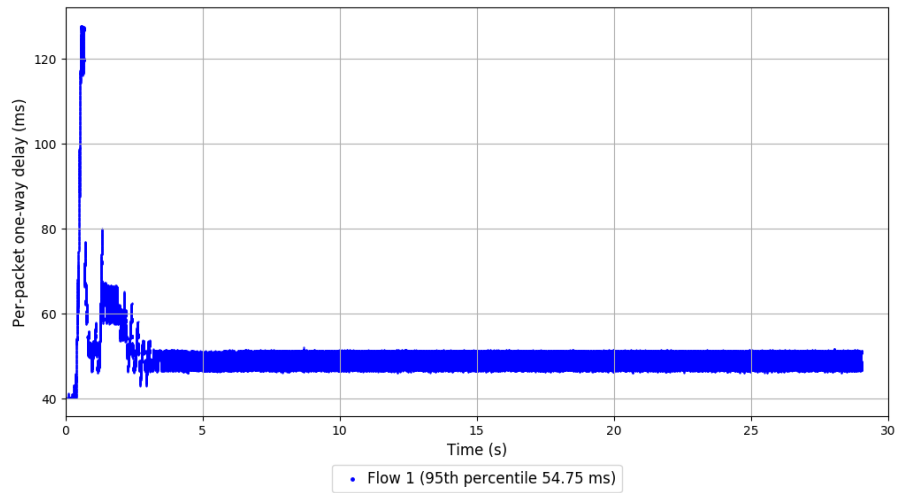
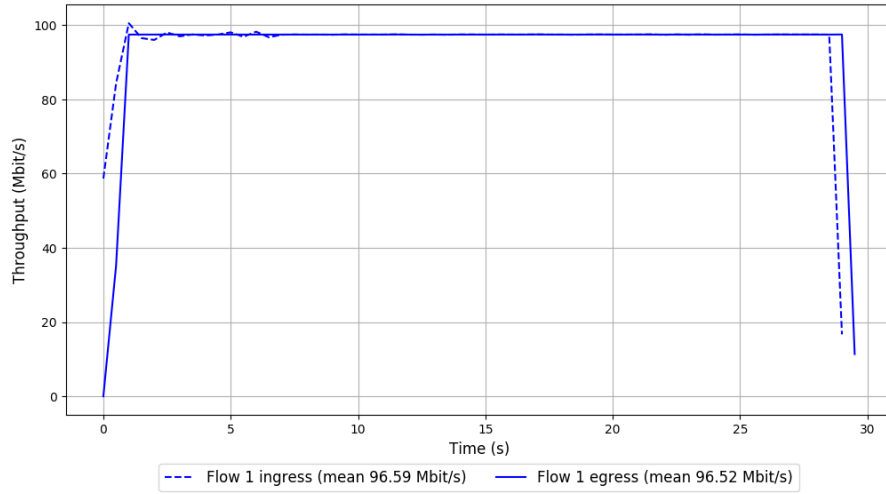
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 54.752 ms

Loss rate: 0.29%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-06-27 15:21:32

End at: 2019-06-27 15:22:02

Local clock offset: -2.1 ms

Remote clock offset: -2.393 ms

# Below is generated by plot.py at 2019-06-27 15:36:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 47.316 ms

Loss rate: 0.25%

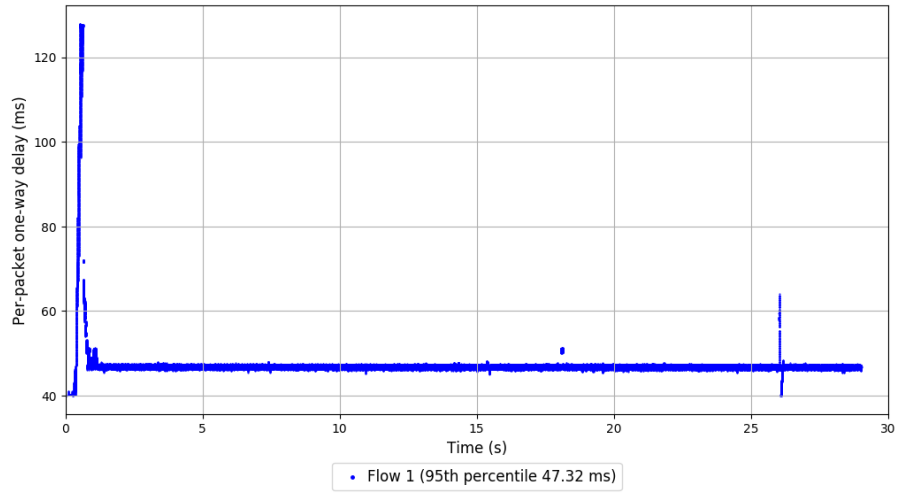
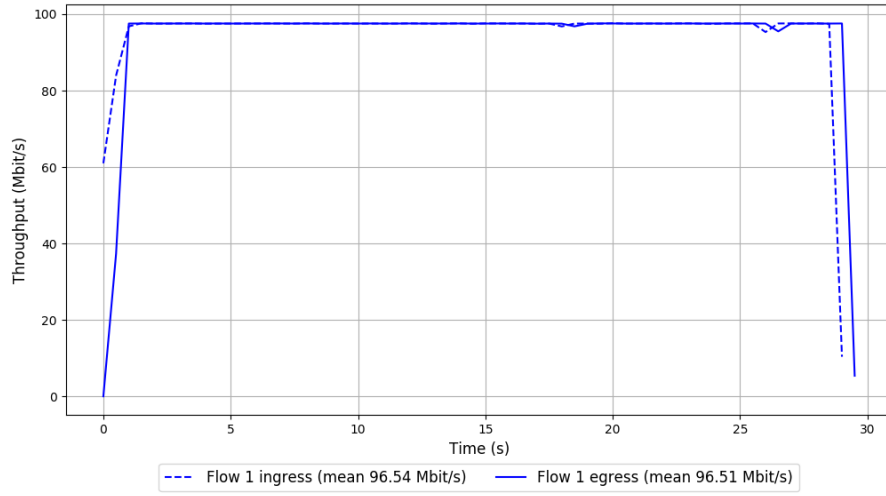
-- Flow 1:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 47.316 ms

Loss rate: 0.25%

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

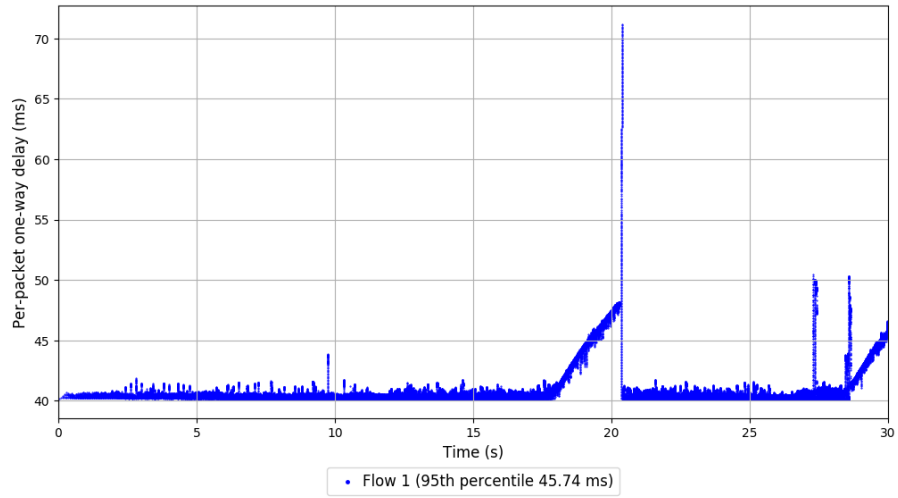
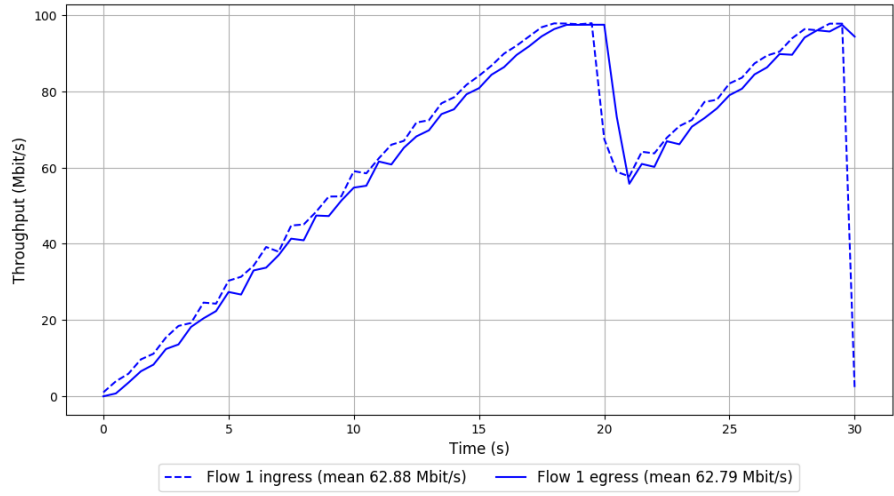


Run 1: Statistics of LEDBAT

Start at: 2019-06-27 13:21:07  
End at: 2019-06-27 13:21:37  
Local clock offset: -2.116 ms  
Remote clock offset: -2.977 ms

# Below is generated by plot.py at 2019-06-27 15:36:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.79 Mbit/s  
95th percentile per-packet one-way delay: 45.745 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 62.79 Mbit/s  
95th percentile per-packet one-way delay: 45.745 ms  
Loss rate: 0.37%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-06-27 13:48:54

End at: 2019-06-27 13:49:24

Local clock offset: 0.909 ms

Remote clock offset: -1.661 ms

# Below is generated by plot.py at 2019-06-27 15:36:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.63 Mbit/s

95th percentile per-packet one-way delay: 45.737 ms

Loss rate: 0.37%

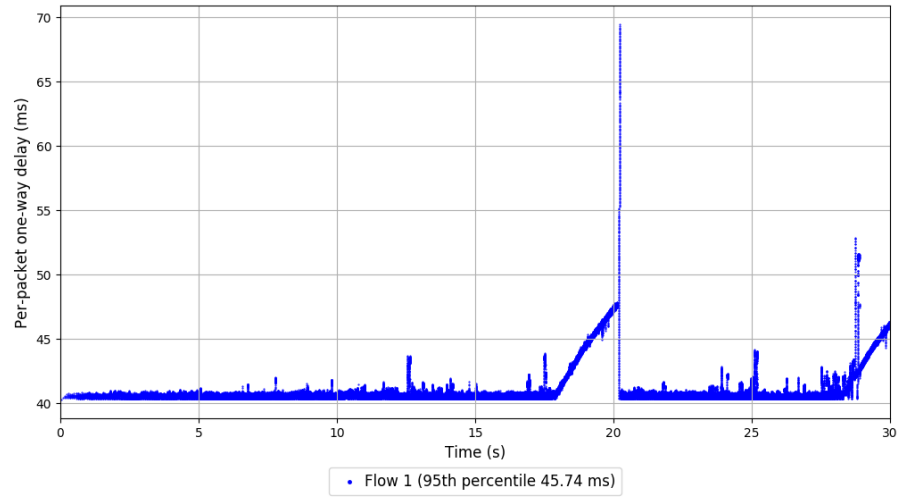
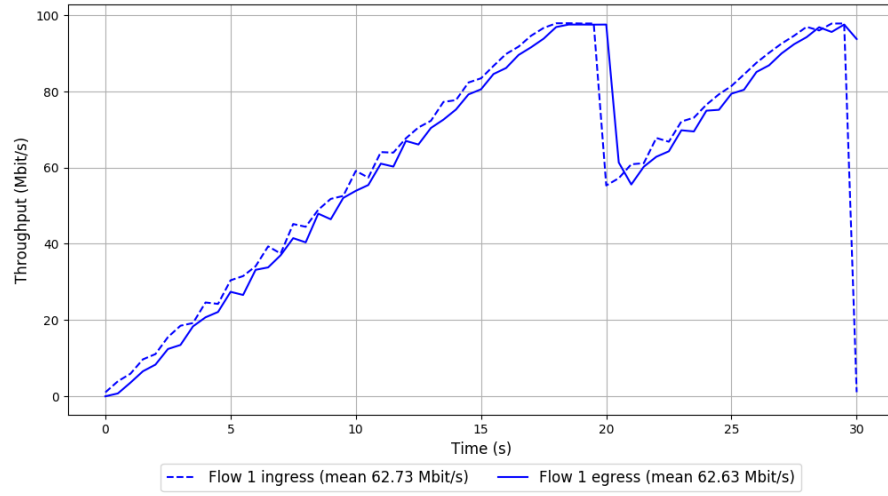
-- Flow 1:

Average throughput: 62.63 Mbit/s

95th percentile per-packet one-way delay: 45.737 ms

Loss rate: 0.37%

## Run 2: Report of LEDBAT — Data Link



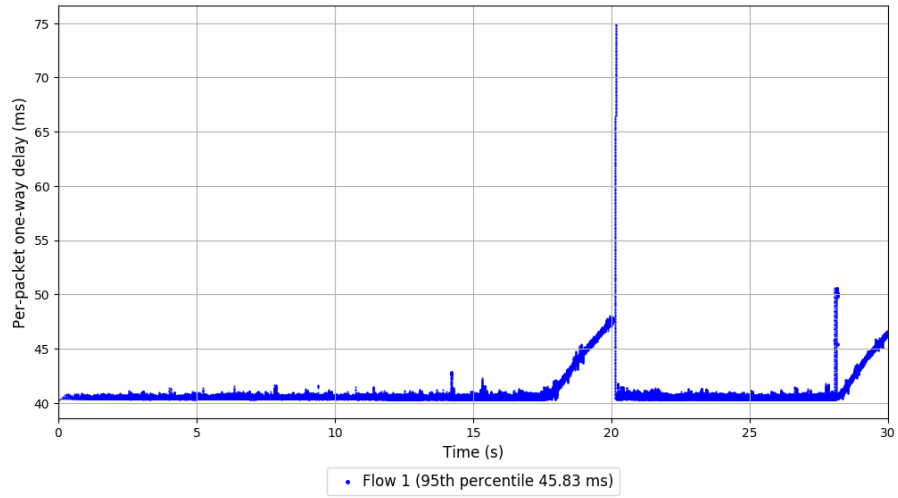
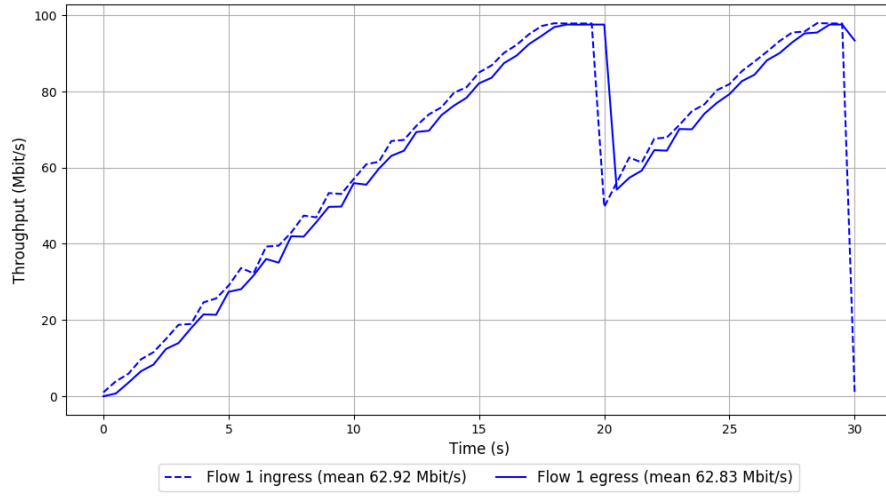


Run 3: Statistics of LEDBAT

Start at: 2019-06-27 14:15:50  
End at: 2019-06-27 14:16:20  
Local clock offset: 0.734 ms  
Remote clock offset: -2.149 ms

# Below is generated by plot.py at 2019-06-27 15:36:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.83 Mbit/s  
95th percentile per-packet one-way delay: 45.828 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 62.83 Mbit/s  
95th percentile per-packet one-way delay: 45.828 ms  
Loss rate: 0.37%

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

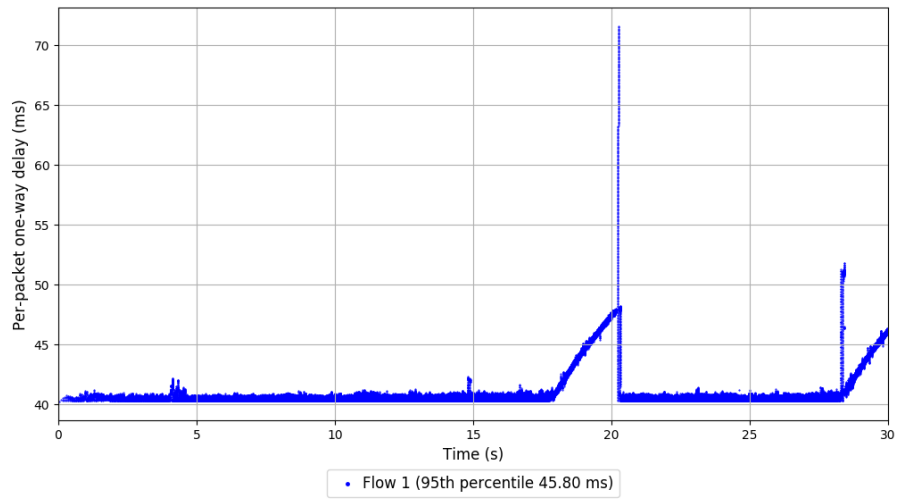
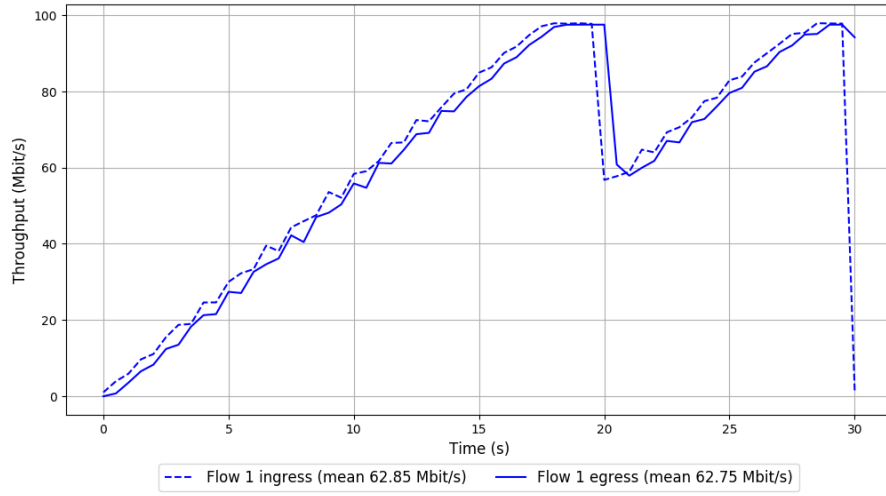


Run 4: Statistics of LEDBAT

Start at: 2019-06-27 14:43:43  
End at: 2019-06-27 14:44:13  
Local clock offset: -3.737 ms  
Remote clock offset: -2.234 ms

# Below is generated by plot.py at 2019-06-27 15:36:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.75 Mbit/s  
95th percentile per-packet one-way delay: 45.795 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 62.75 Mbit/s  
95th percentile per-packet one-way delay: 45.795 ms  
Loss rate: 0.37%

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

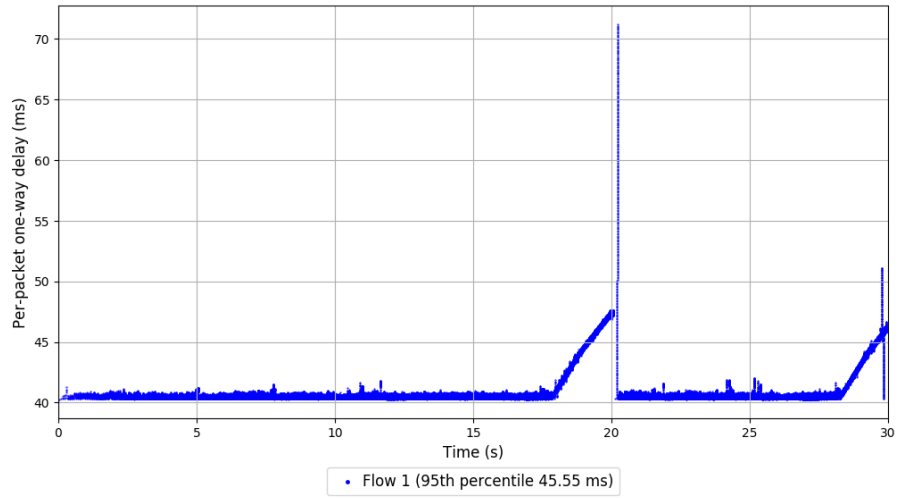
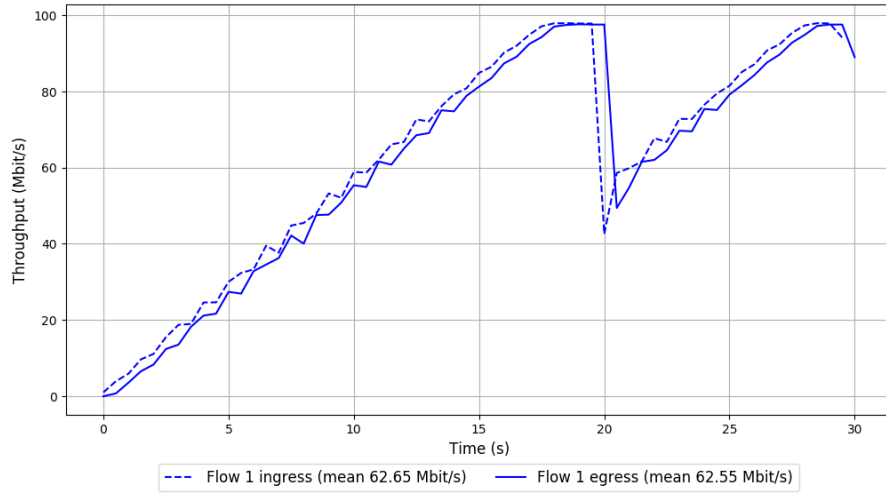


Run 5: Statistics of LEDBAT

Start at: 2019-06-27 15:10:42  
End at: 2019-06-27 15:11:12  
Local clock offset: -3.133 ms  
Remote clock offset: -2.261 ms

# Below is generated by plot.py at 2019-06-27 15:36:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.55 Mbit/s  
95th percentile per-packet one-way delay: 45.547 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 62.55 Mbit/s  
95th percentile per-packet one-way delay: 45.547 ms  
Loss rate: 0.37%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 13:29:31

End at: 2019-06-27 13:30:01

Local clock offset: -0.409 ms

Remote clock offset: -2.574 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 13:57:31

End at: 2019-06-27 13:58:01

Local clock offset: 0.617 ms

Remote clock offset: -1.931 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 14:24:37

End at: 2019-06-27 14:25:07

Local clock offset: -1.486 ms

Remote clock offset: -2.159 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 14:52:21

End at: 2019-06-27 14:52:51

Local clock offset: -3.528 ms

Remote clock offset: -2.292 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 15:19:12

End at: 2019-06-27 15:19:42

Local clock offset: -2.779 ms

Remote clock offset: -2.434 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 13:16:32

End at: 2019-06-27 13:17:02

Local clock offset: -3.065 ms

Remote clock offset: -3.17 ms

# Below is generated by plot.py at 2019-06-27 15:37:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 45.620 ms

Loss rate: 0.24%

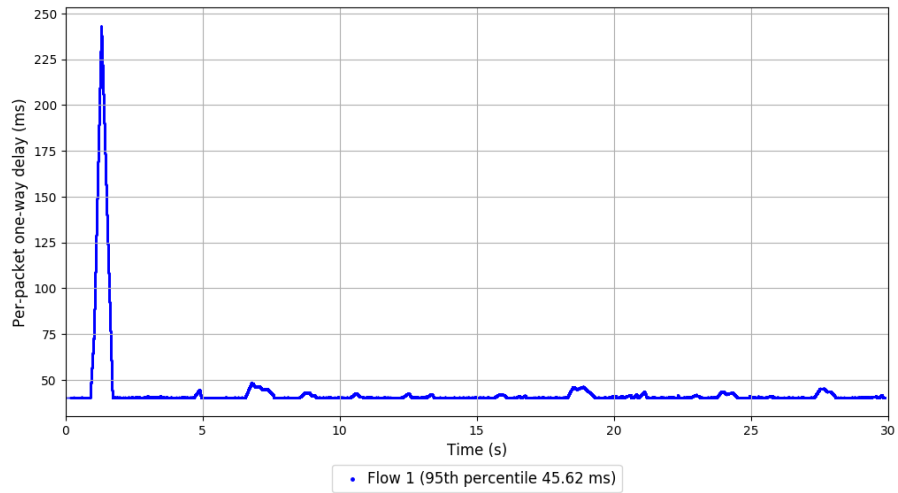
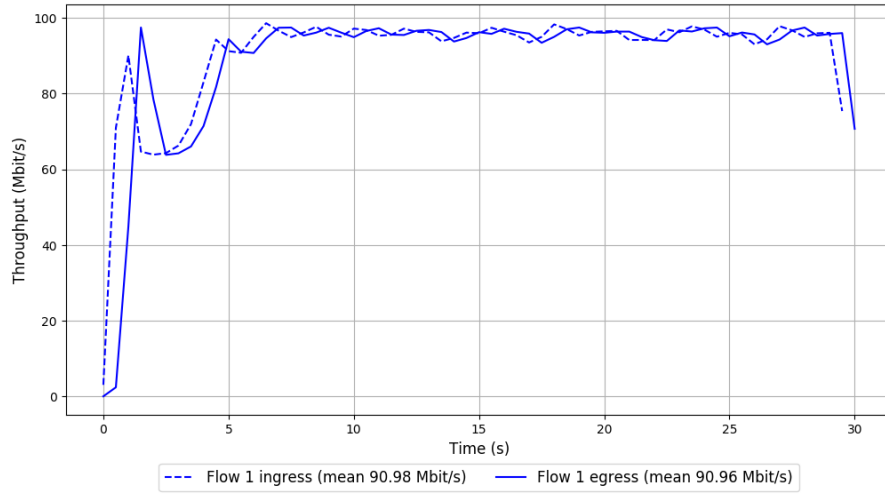
-- Flow 1:

Average throughput: 90.96 Mbit/s

95th percentile per-packet one-way delay: 45.620 ms

Loss rate: 0.24%

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



Run 2: Statistics of PCC-Allegro

Start at: 2019-06-27 13:44:11

End at: 2019-06-27 13:44:41

Local clock offset: 0.775 ms

Remote clock offset: -1.804 ms

# Below is generated by plot.py at 2019-06-27 15:37:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 47.996 ms

Loss rate: 0.27%

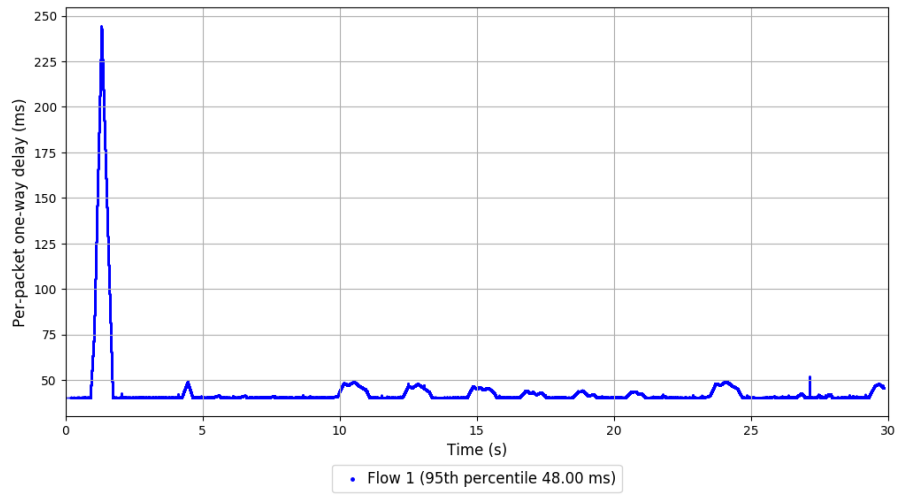
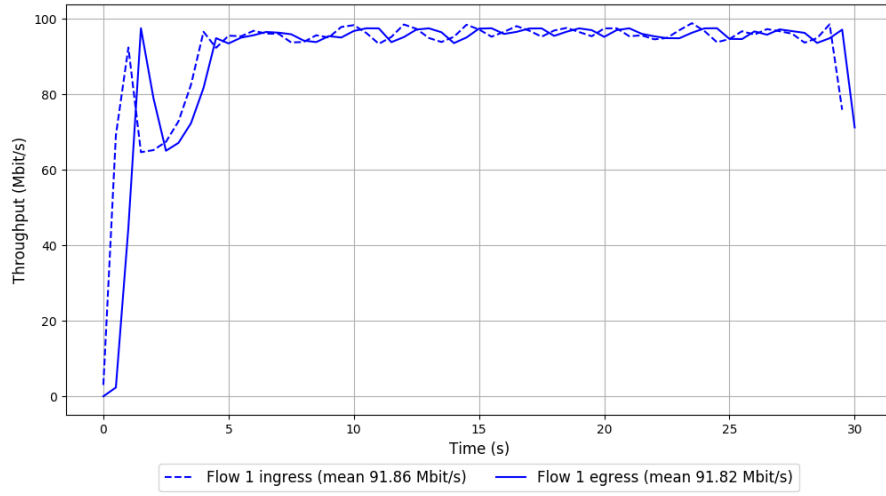
-- Flow 1:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 47.996 ms

Loss rate: 0.27%

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



Run 3: Statistics of PCC-Allegro

Start at: 2019-06-27 14:11:09

End at: 2019-06-27 14:11:39

Local clock offset: 0.682 ms

Remote clock offset: -2.13 ms

# Below is generated by plot.py at 2019-06-27 15:37:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 46.244 ms

Loss rate: 0.24%

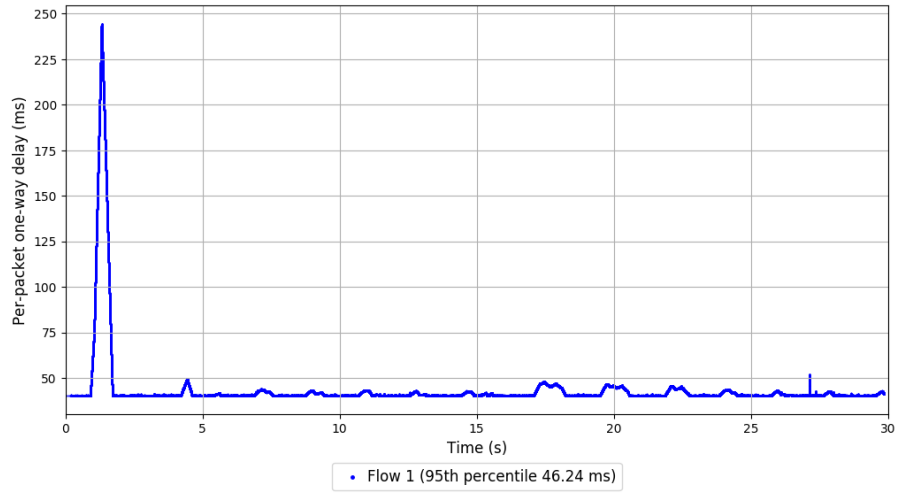
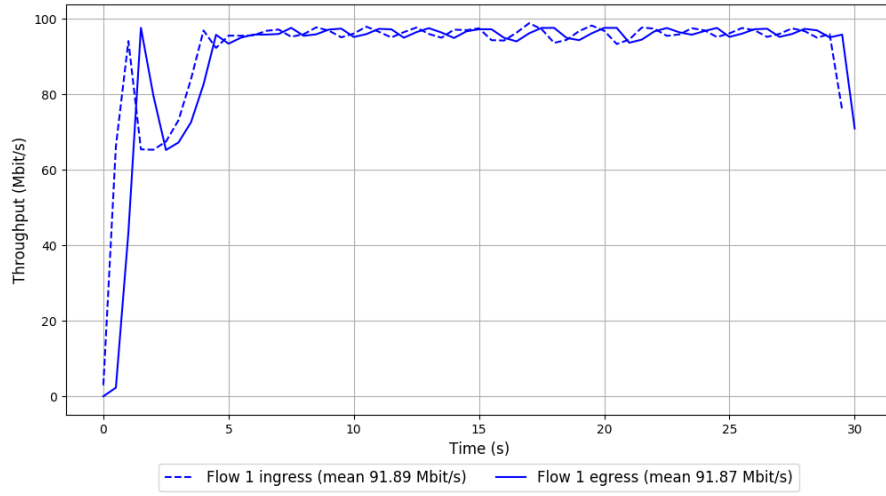
-- Flow 1:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 46.244 ms

Loss rate: 0.24%

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



Run 4: Statistics of PCC-Allegro

Start at: 2019-06-27 14:39:02

End at: 2019-06-27 14:39:32

Local clock offset: -3.424 ms

Remote clock offset: -2.196 ms

# Below is generated by plot.py at 2019-06-27 15:37:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 46.362 ms

Loss rate: 0.23%

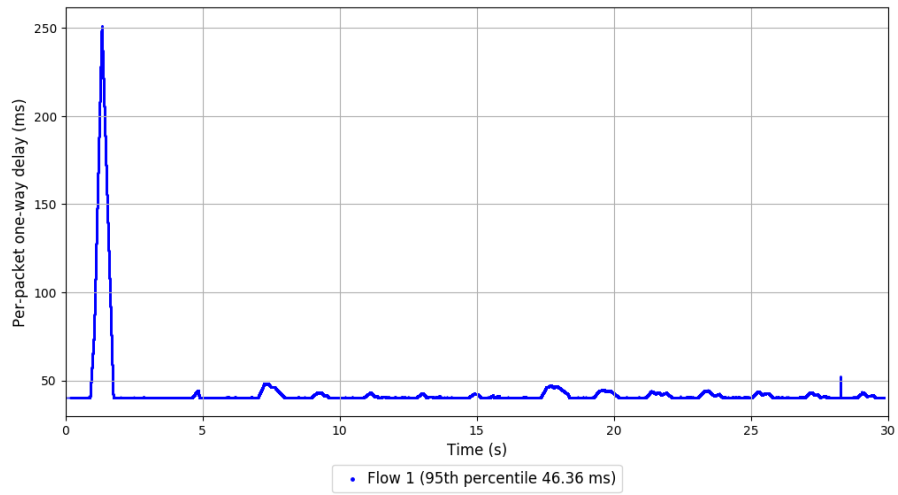
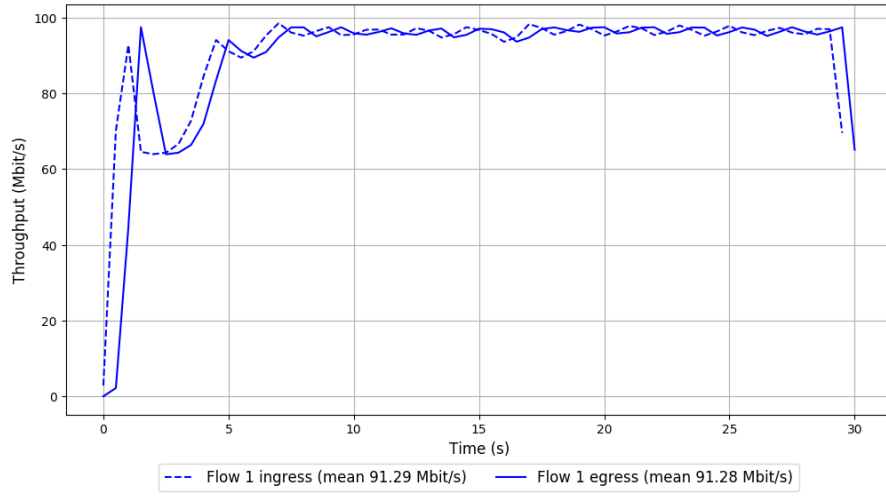
-- Flow 1:

Average throughput: 91.28 Mbit/s

95th percentile per-packet one-way delay: 46.362 ms

Loss rate: 0.23%

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





Run 5: Statistics of PCC-Allegro

Start at: 2019-06-27 15:06:05

End at: 2019-06-27 15:06:35

Local clock offset: -3.107 ms

Remote clock offset: -2.284 ms

# Below is generated by plot.py at 2019-06-27 15:37:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 55.406 ms

Loss rate: 0.27%

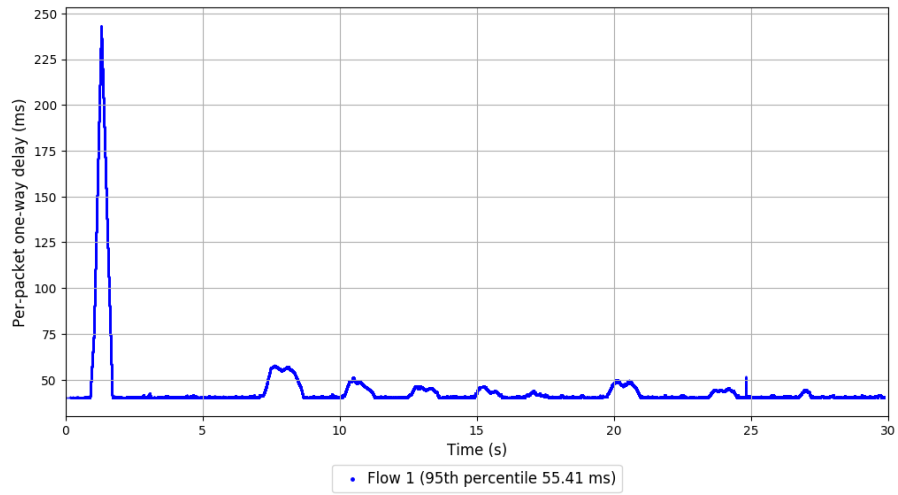
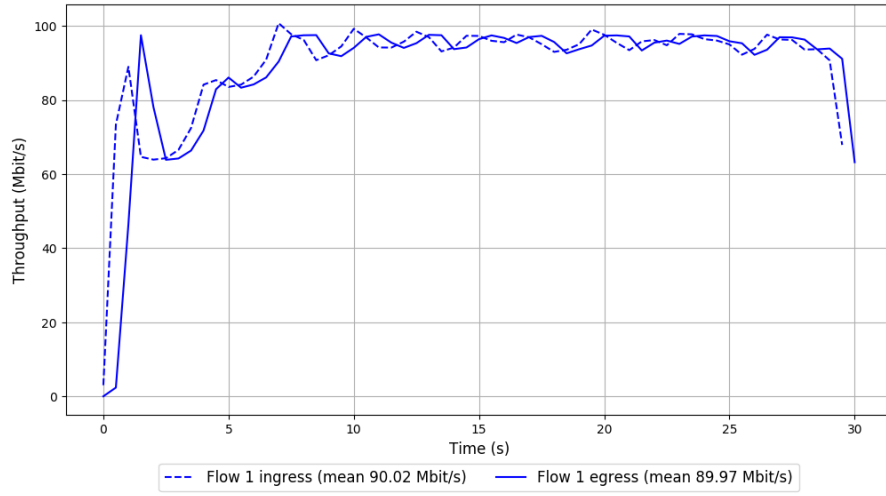
-- Flow 1:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 55.406 ms

Loss rate: 0.27%

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



Run 1: Statistics of PCC-Expr

Start at: 2019-06-27 13:10:35  
End at: 2019-06-27 13:11:05  
Local clock offset: -3.005 ms  
Remote clock offset: -3.313 ms

# Below is generated by plot.py at 2019-06-27 15:38:33

# Datalink statistics

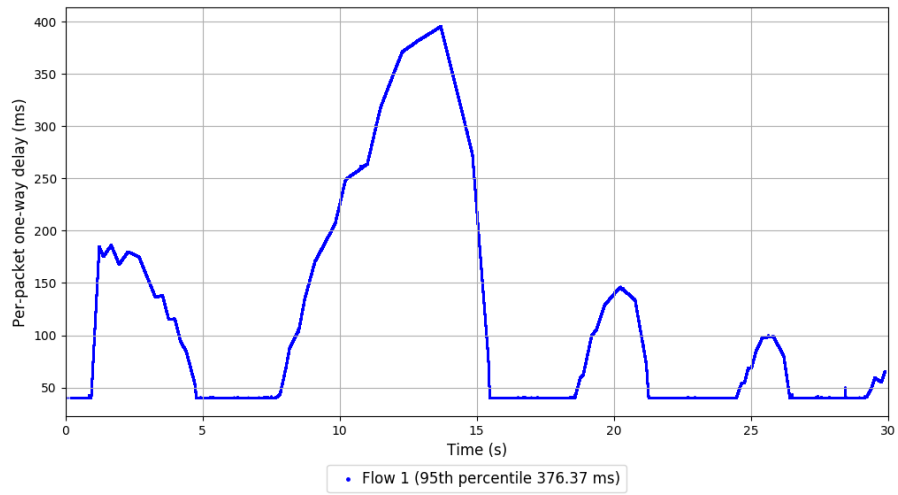
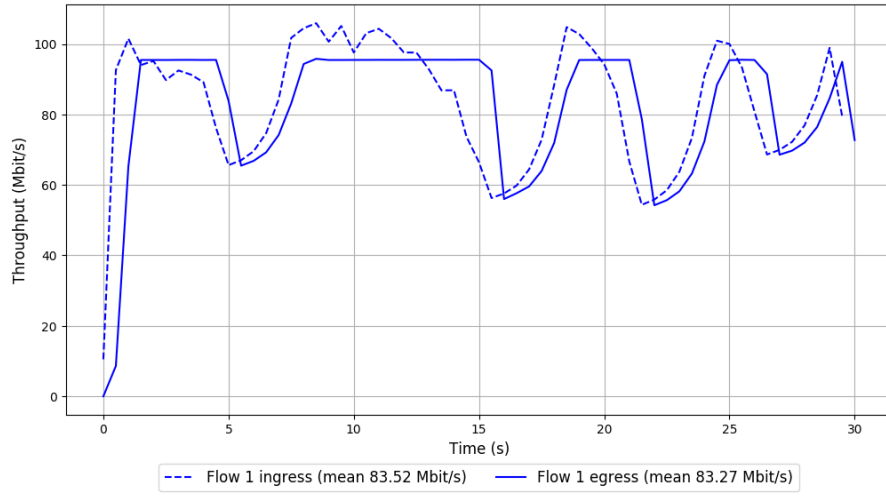
-- Total of 1 flow:

Average throughput: 83.27 Mbit/s  
95th percentile per-packet one-way delay: 376.373 ms  
Loss rate: 0.52%

-- Flow 1:

Average throughput: 83.27 Mbit/s  
95th percentile per-packet one-way delay: 376.373 ms  
Loss rate: 0.52%

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



Run 2: Statistics of PCC-Expr

Start at: 2019-06-27 13:37:32

End at: 2019-06-27 13:38:02

Local clock offset: 0.373 ms

Remote clock offset: -2.216 ms

# Below is generated by plot.py at 2019-06-27 15:38:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 170.730 ms

Loss rate: 0.36%

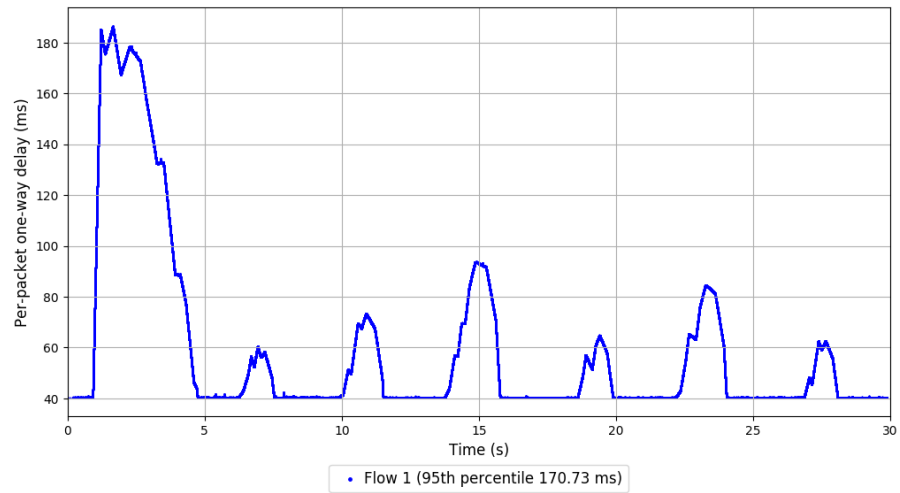
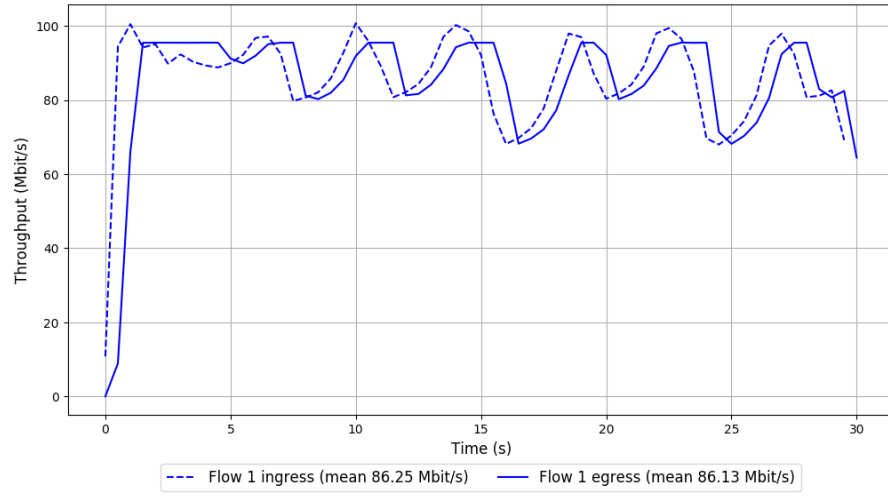
-- Flow 1:

Average throughput: 86.13 Mbit/s

95th percentile per-packet one-way delay: 170.730 ms

Loss rate: 0.36%

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



Run 3: Statistics of PCC-Expr

Start at: 2019-06-27 14:05:02

End at: 2019-06-27 14:05:32

Local clock offset: 0.581 ms

Remote clock offset: -2.061 ms

# Below is generated by plot.py at 2019-06-27 15:38:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 173.090 ms

Loss rate: 0.35%

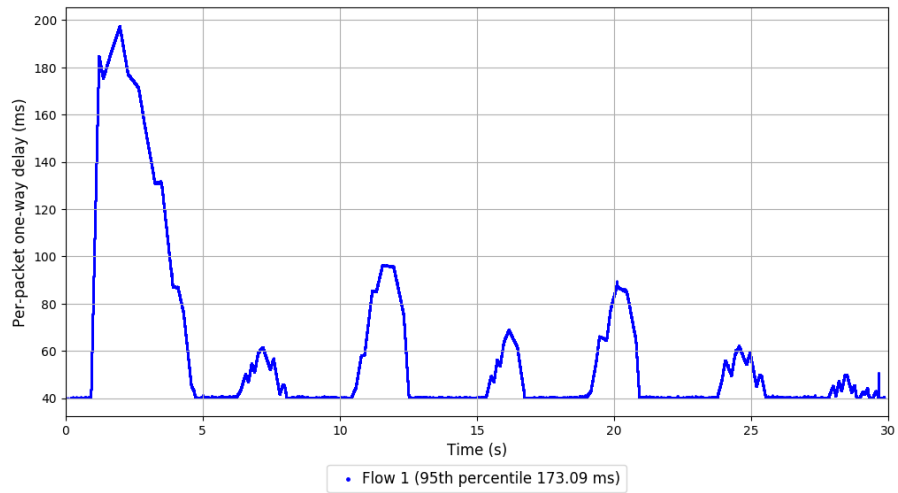
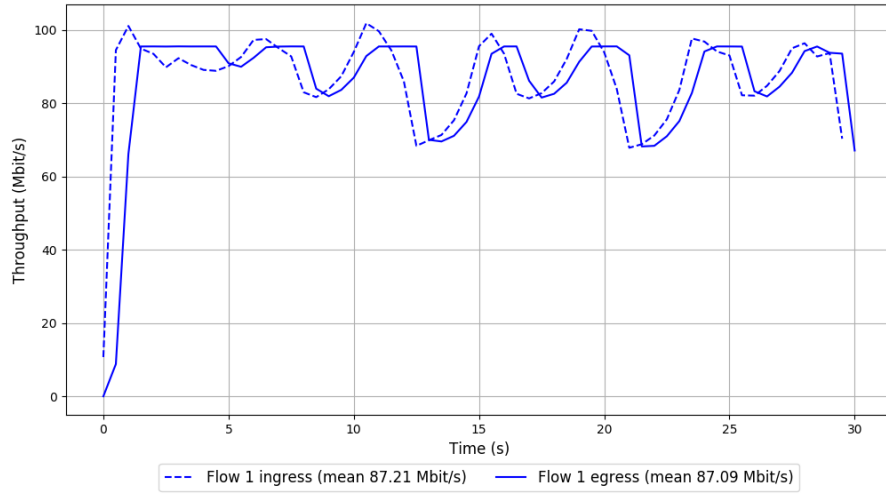
-- Flow 1:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 173.090 ms

Loss rate: 0.35%

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



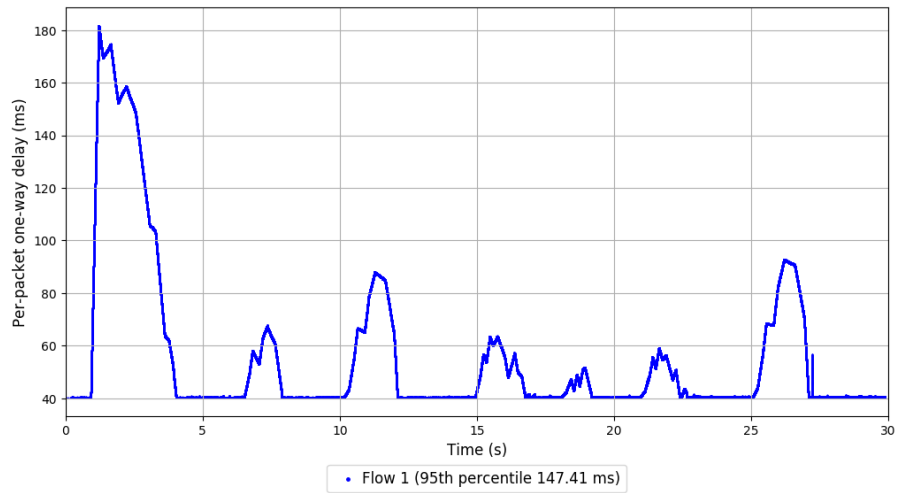
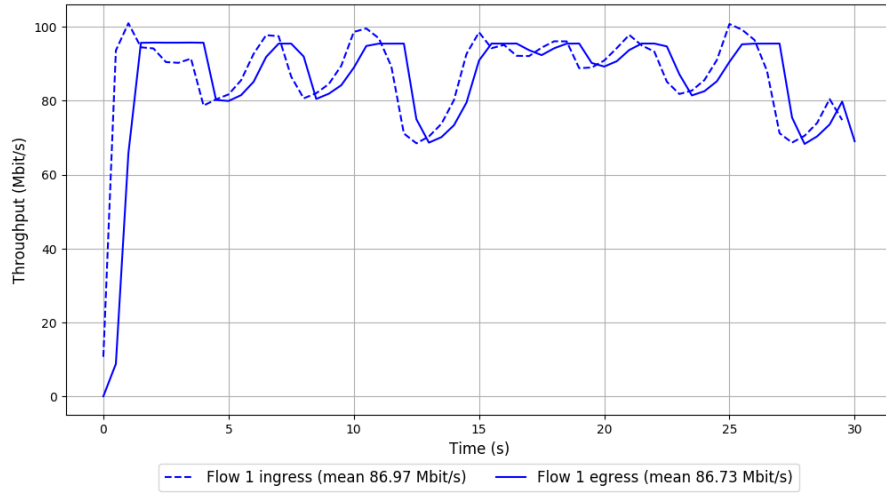


Run 4: Statistics of PCC-Expr

Start at: 2019-06-27 14:32:13  
End at: 2019-06-27 14:32:43  
Local clock offset: -2.803 ms  
Remote clock offset: -2.242 ms

# Below is generated by plot.py at 2019-06-27 15:39:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.73 Mbit/s  
95th percentile per-packet one-way delay: 147.408 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 86.73 Mbit/s  
95th percentile per-packet one-way delay: 147.408 ms  
Loss rate: 0.49%

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

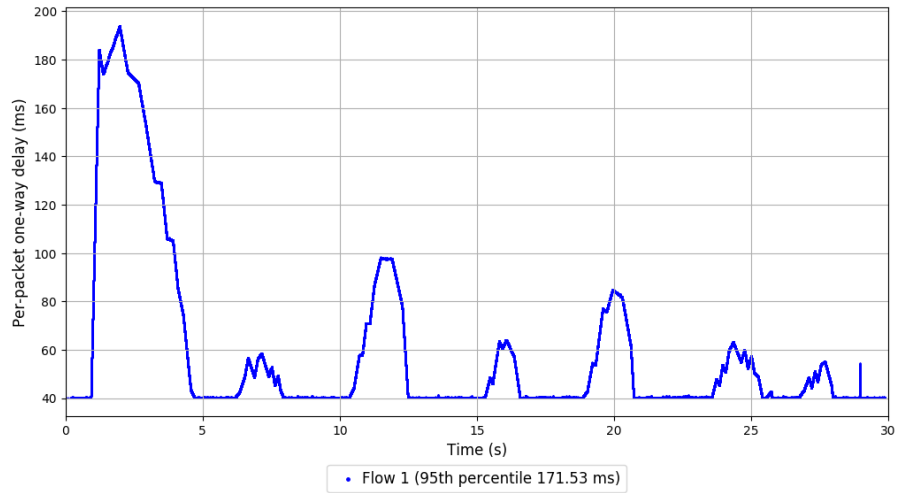
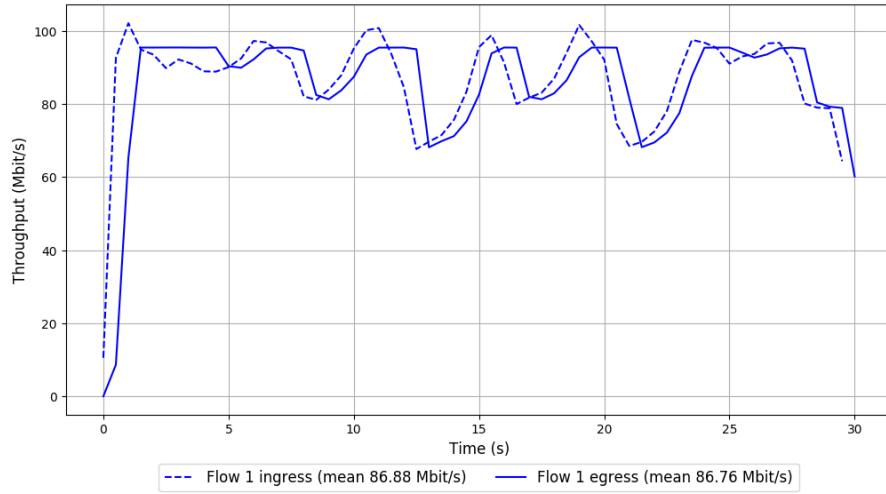


Run 5: Statistics of PCC-Expr

Start at: 2019-06-27 14:59:51  
End at: 2019-06-27 15:00:21  
Local clock offset: -3.188 ms  
Remote clock offset: -2.272 ms

# Below is generated by plot.py at 2019-06-27 15:39:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.76 Mbit/s  
95th percentile per-packet one-way delay: 171.535 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 86.76 Mbit/s  
95th percentile per-packet one-way delay: 171.535 ms  
Loss rate: 0.35%

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



Run 1: Statistics of QUIC Cubic

Start at: 2019-06-27 13:28:20

End at: 2019-06-27 13:28:50

Local clock offset: -0.546 ms

Remote clock offset: -2.681 ms

# Below is generated by plot.py at 2019-06-27 15:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.55 Mbit/s

95th percentile per-packet one-way delay: 47.492 ms

Loss rate: 0.29%

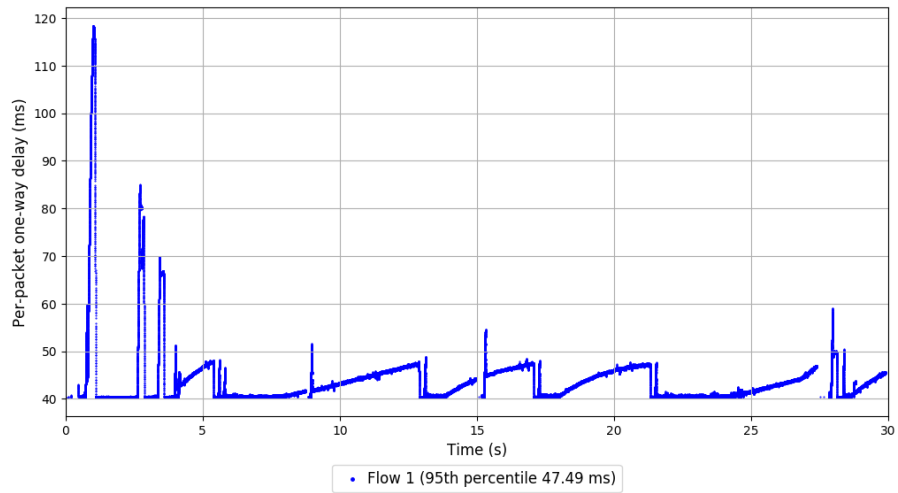
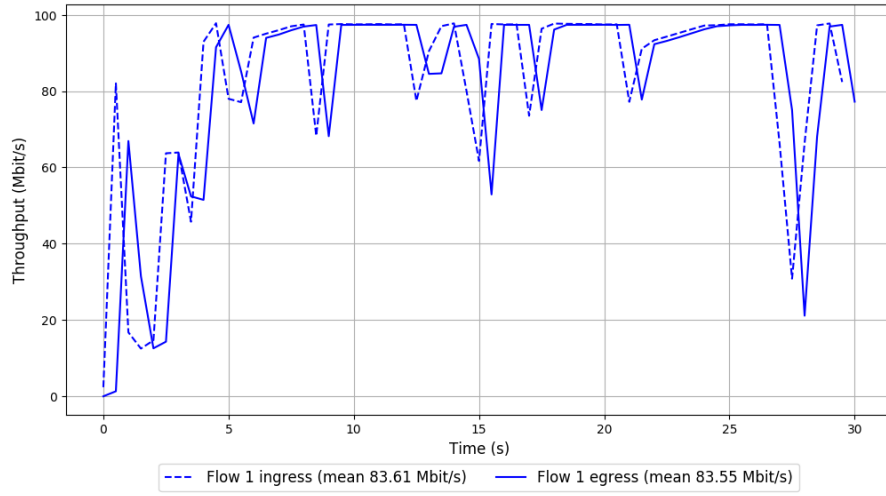
-- Flow 1:

Average throughput: 83.55 Mbit/s

95th percentile per-packet one-way delay: 47.492 ms

Loss rate: 0.29%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-06-27 13:56:16

End at: 2019-06-27 13:56:46

Local clock offset: 0.633 ms

Remote clock offset: -1.893 ms

# Below is generated by plot.py at 2019-06-27 15:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 47.372 ms

Loss rate: 0.27%

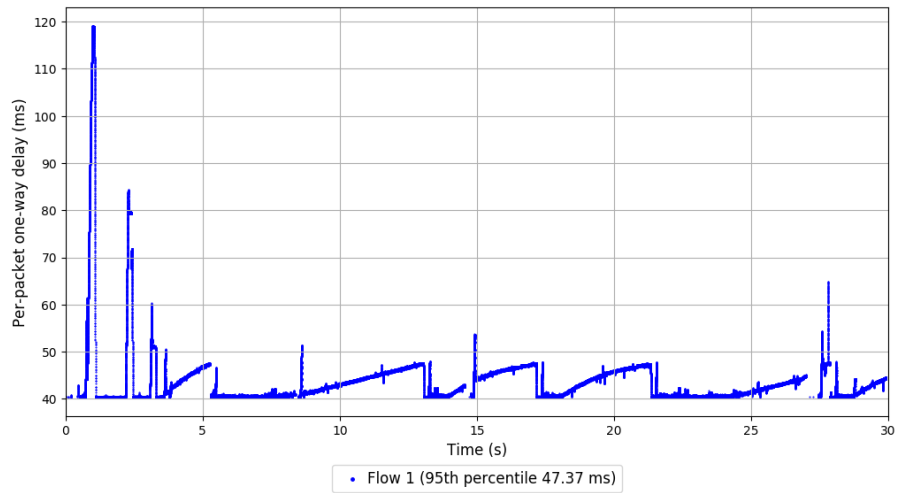
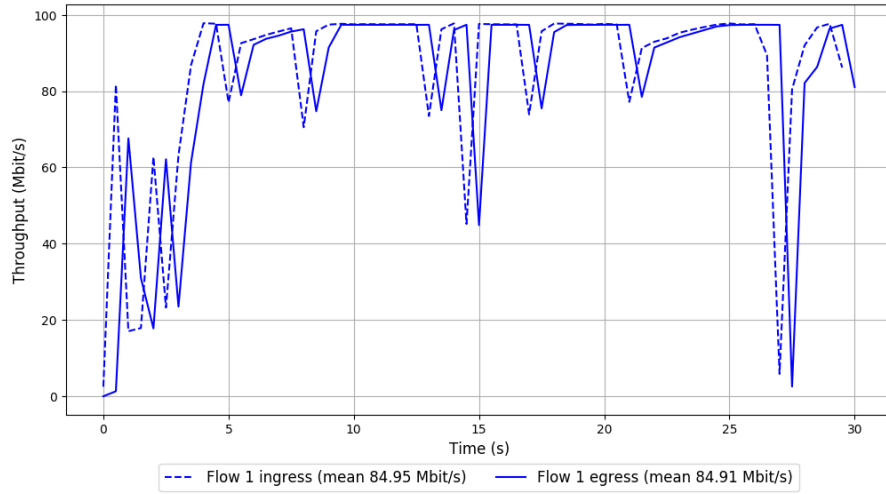
-- Flow 1:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 47.372 ms

Loss rate: 0.27%

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





Run 3: Statistics of QUIC Cubic

Start at: 2019-06-27 14:23:24

End at: 2019-06-27 14:23:54

Local clock offset: -1.089 ms

Remote clock offset: -2.13 ms

# Below is generated by plot.py at 2019-06-27 15:39:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 56.021 ms

Loss rate: 0.09%

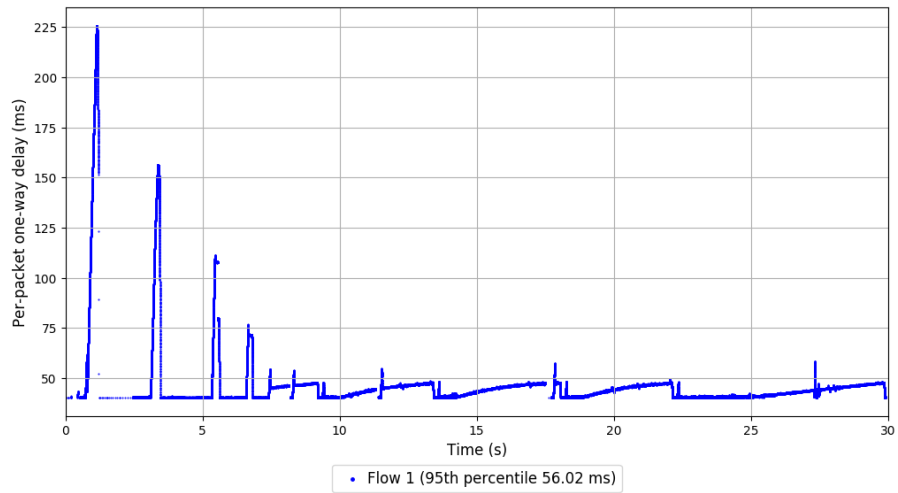
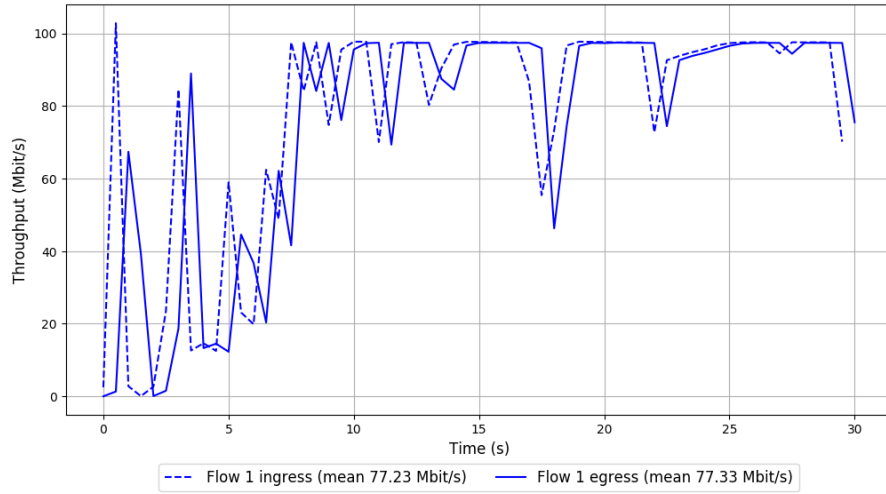
-- Flow 1:

Average throughput: 77.33 Mbit/s

95th percentile per-packet one-way delay: 56.021 ms

Loss rate: 0.09%

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

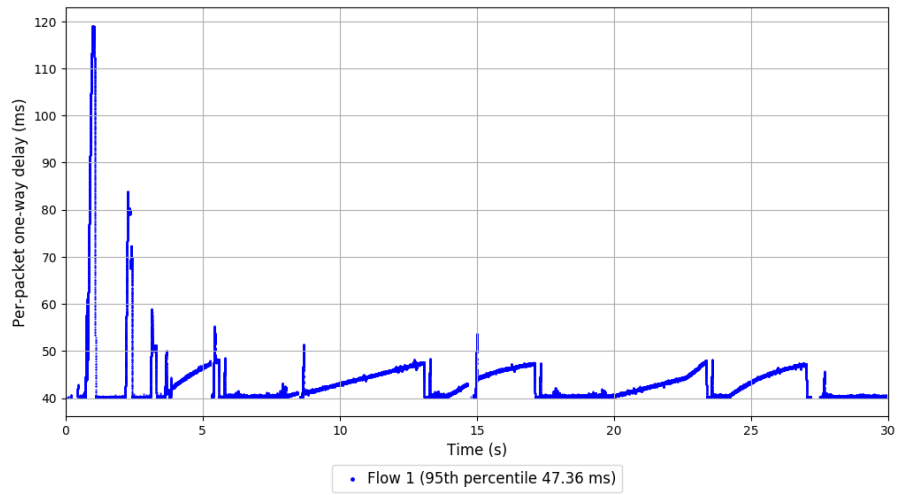
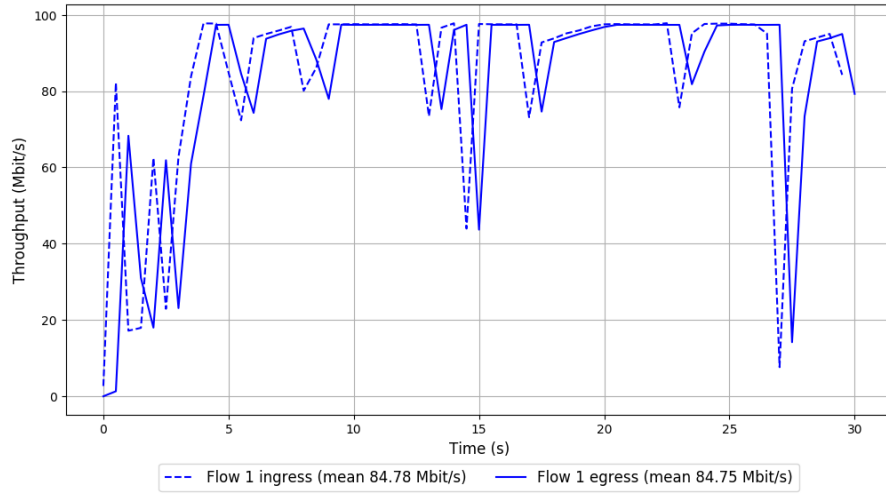


Run 4: Statistics of QUIC Cubic

Start at: 2019-06-27 14:51:05  
End at: 2019-06-27 14:51:35  
Local clock offset: -3.664 ms  
Remote clock offset: -2.257 ms

# Below is generated by plot.py at 2019-06-27 15:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.75 Mbit/s  
95th percentile per-packet one-way delay: 47.356 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 84.75 Mbit/s  
95th percentile per-packet one-way delay: 47.356 ms  
Loss rate: 0.26%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-06-27 15:18:01

End at: 2019-06-27 15:18:31

Local clock offset: -3.167 ms

Remote clock offset: -2.402 ms

# Below is generated by plot.py at 2019-06-27 15:39:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 56.363 ms

Loss rate: 0.29%

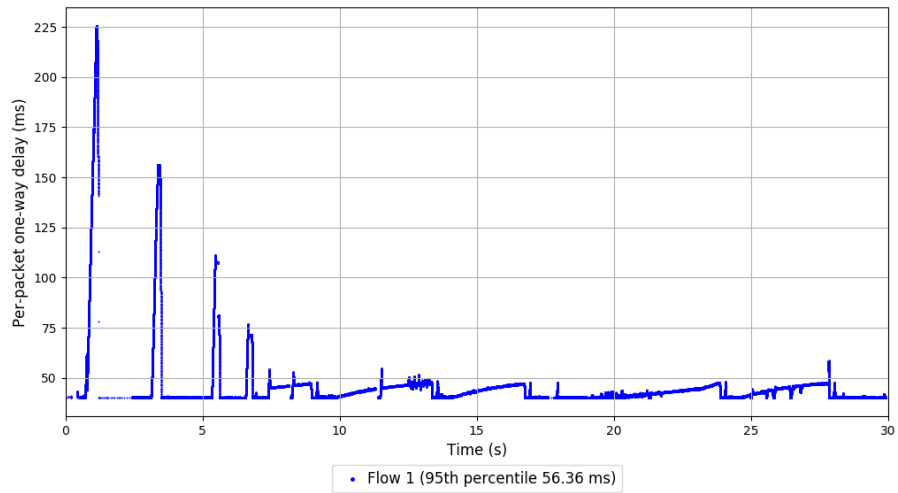
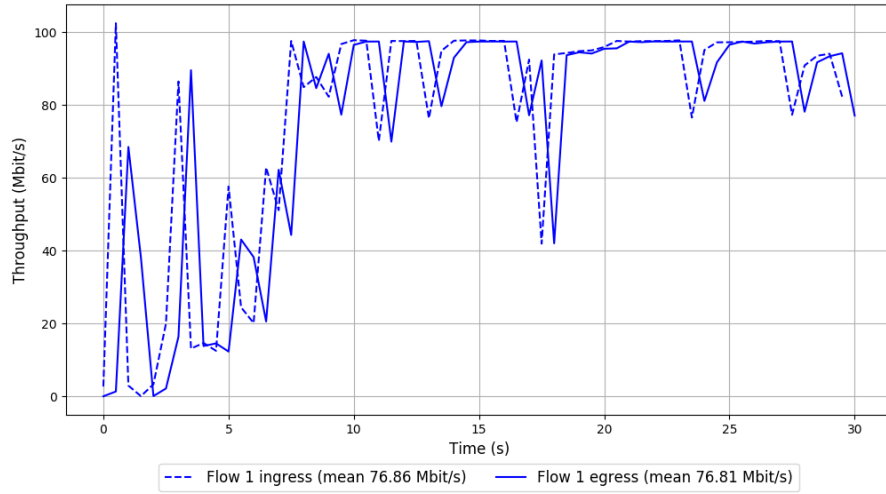
-- Flow 1:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 56.363 ms

Loss rate: 0.29%

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

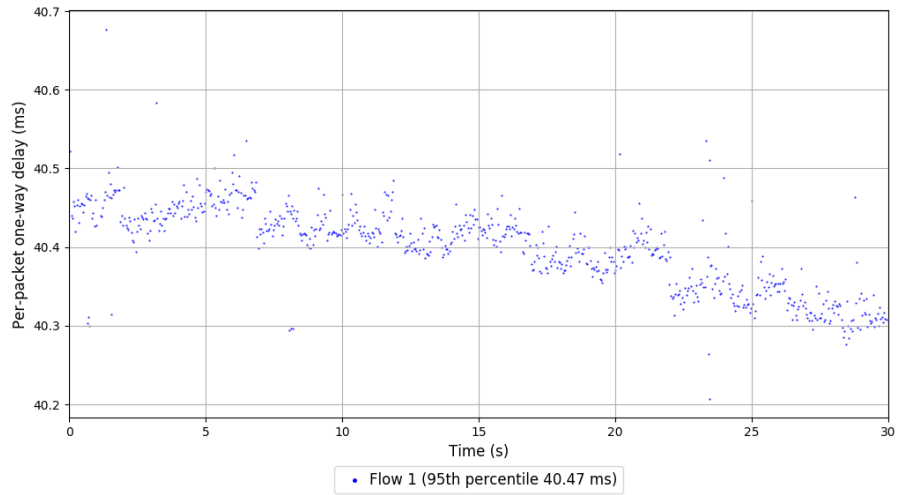
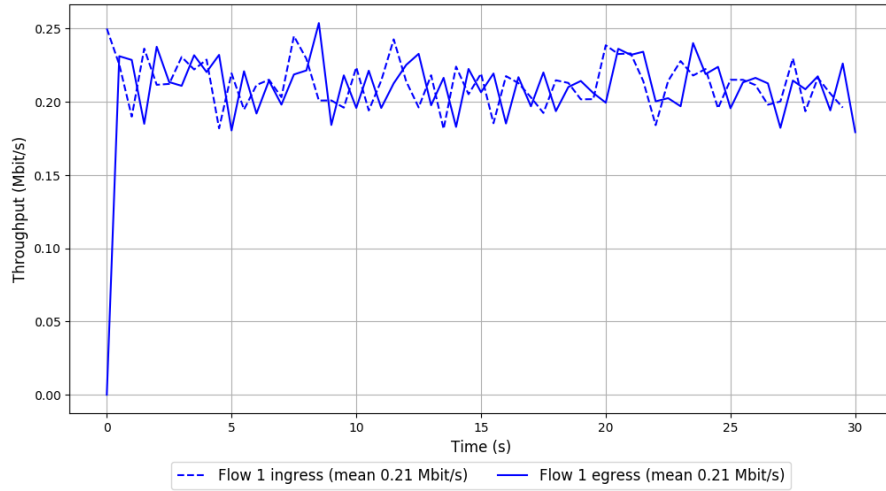


Run 1: Statistics of SCReAM

Start at: 2019-06-27 13:17:42  
End at: 2019-06-27 13:18:12  
Local clock offset: -3.065 ms  
Remote clock offset: -3.109 ms

# Below is generated by plot.py at 2019-06-27 15:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 40.470 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 40.470 ms  
Loss rate: 0.26%

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





Run 2: Statistics of SCReAM

Start at: 2019-06-27 13:45:24

End at: 2019-06-27 13:45:54

Local clock offset: 0.822 ms

Remote clock offset: -1.719 ms

# Below is generated by plot.py at 2019-06-27 15:39:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 40.331 ms

Loss rate: 0.26%

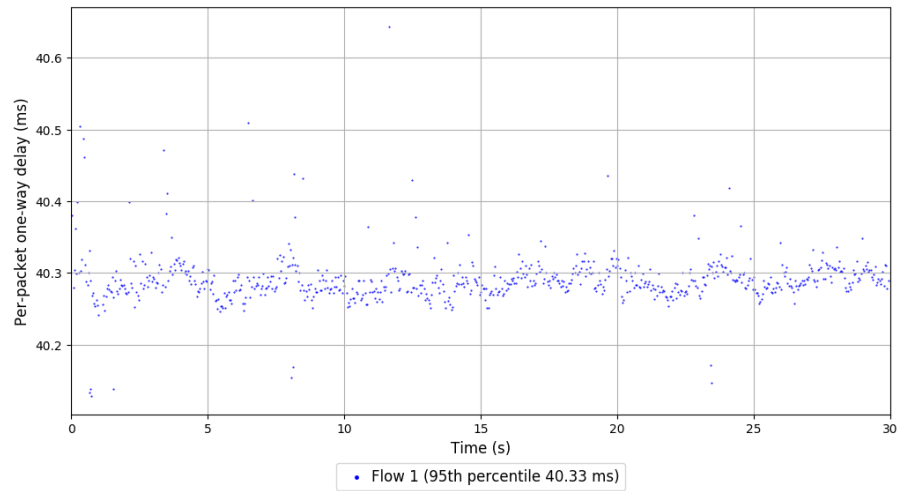
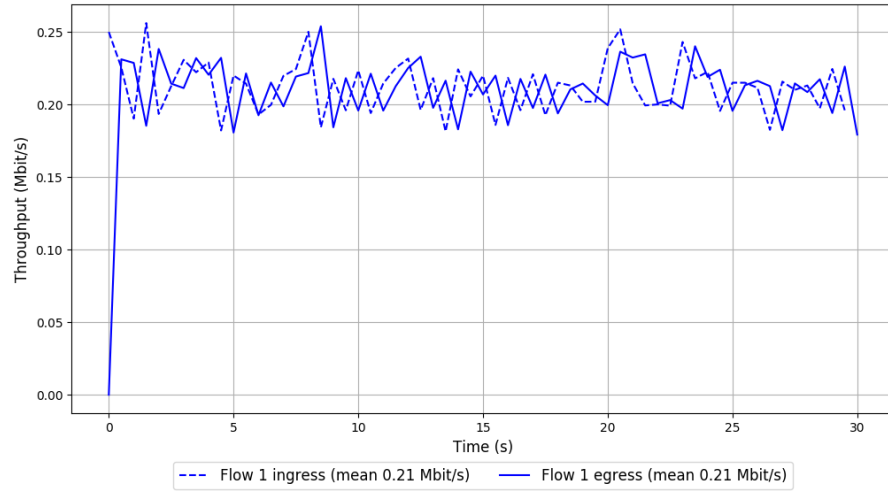
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 40.331 ms

Loss rate: 0.26%

## Run 2: Report of SCReAM — Data Link

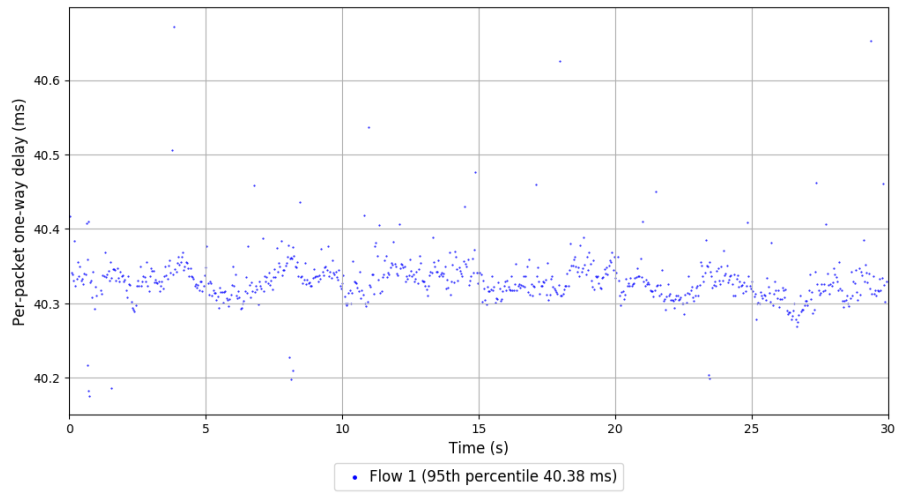
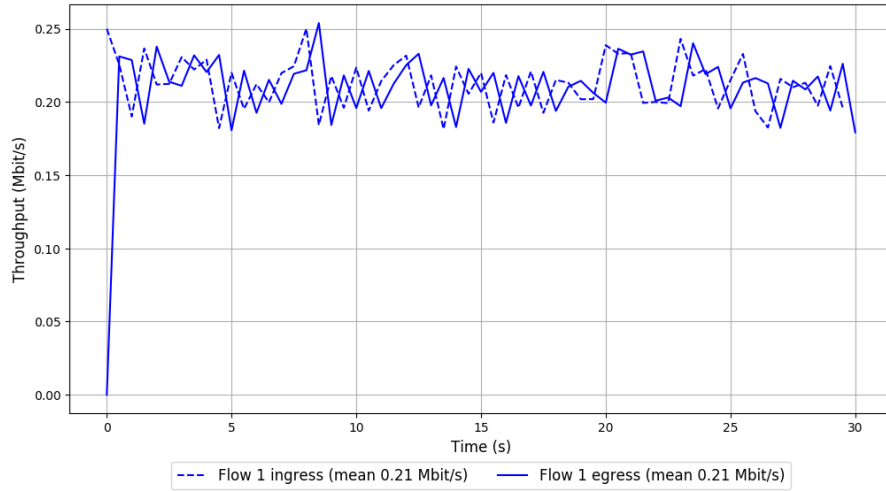


Run 3: Statistics of SCReAM

Start at: 2019-06-27 14:12:20  
End at: 2019-06-27 14:12:50  
Local clock offset: 0.66 ms  
Remote clock offset: -2.177 ms

# Below is generated by plot.py at 2019-06-27 15:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 40.377 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 40.377 ms  
Loss rate: 0.26%

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

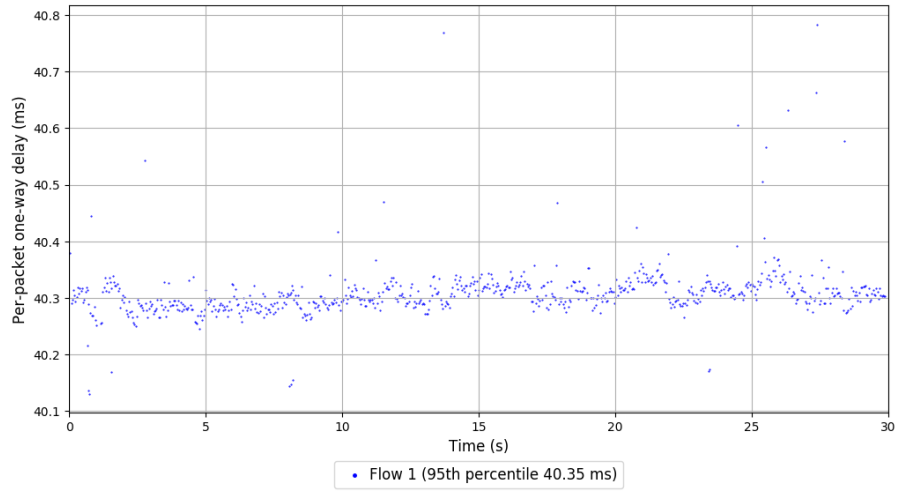
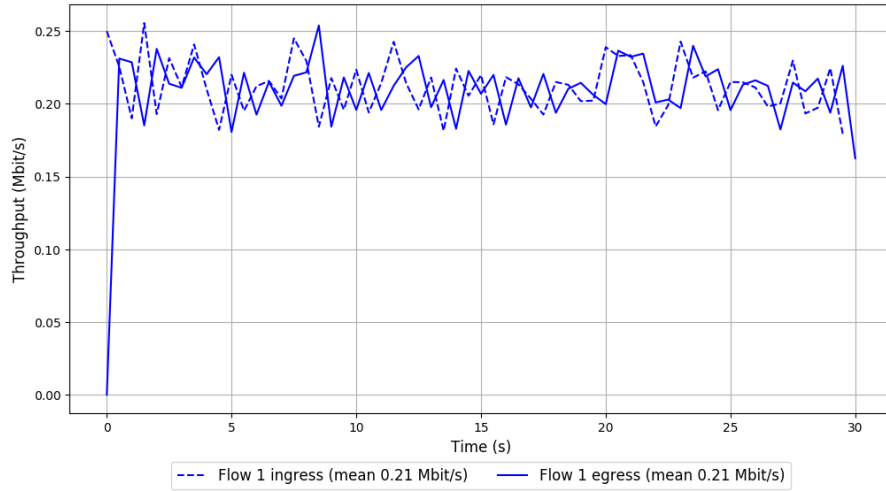


Run 4: Statistics of SCReAM

Start at: 2019-06-27 14:40:14  
End at: 2019-06-27 14:40:44  
Local clock offset: -3.482 ms  
Remote clock offset: -2.205 ms

# Below is generated by plot.py at 2019-06-27 15:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 40.347 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 40.347 ms  
Loss rate: 0.26%

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

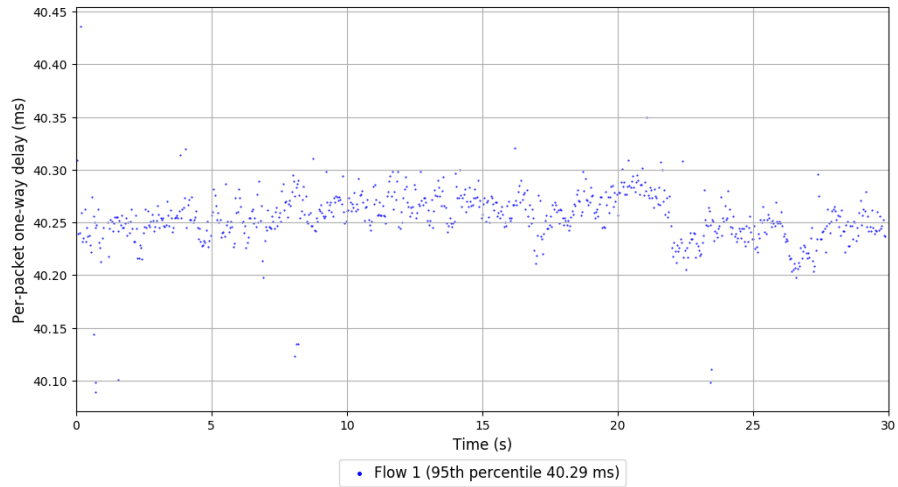
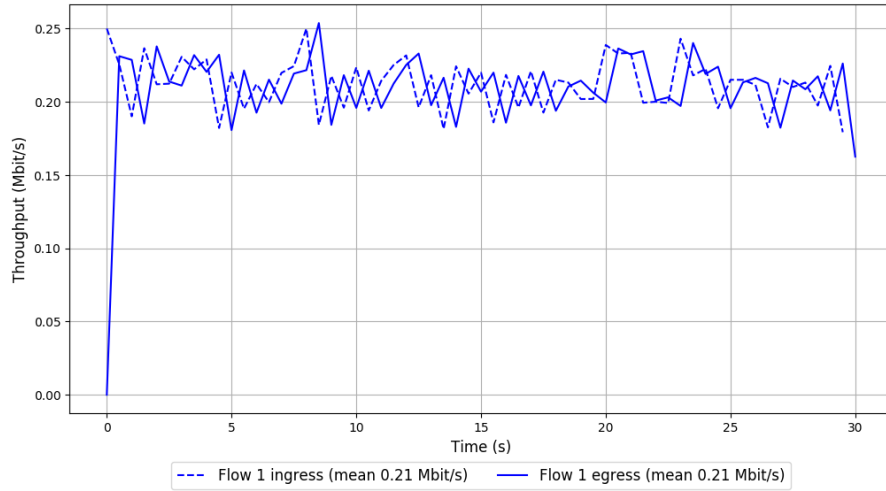


Run 5: Statistics of SCReAM

Start at: 2019-06-27 15:07:16  
End at: 2019-06-27 15:07:46  
Local clock offset: -3.126 ms  
Remote clock offset: -2.268 ms

# Below is generated by plot.py at 2019-06-27 15:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 40.289 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 40.289 ms  
Loss rate: 0.26%

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



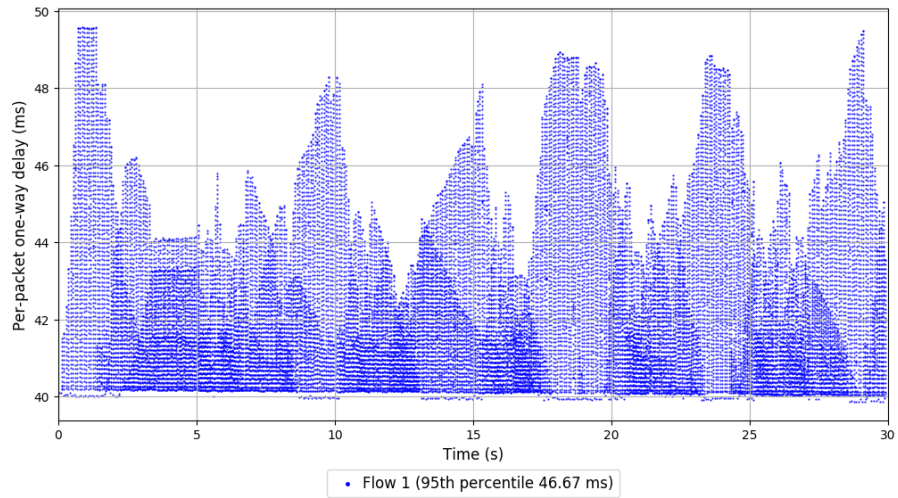
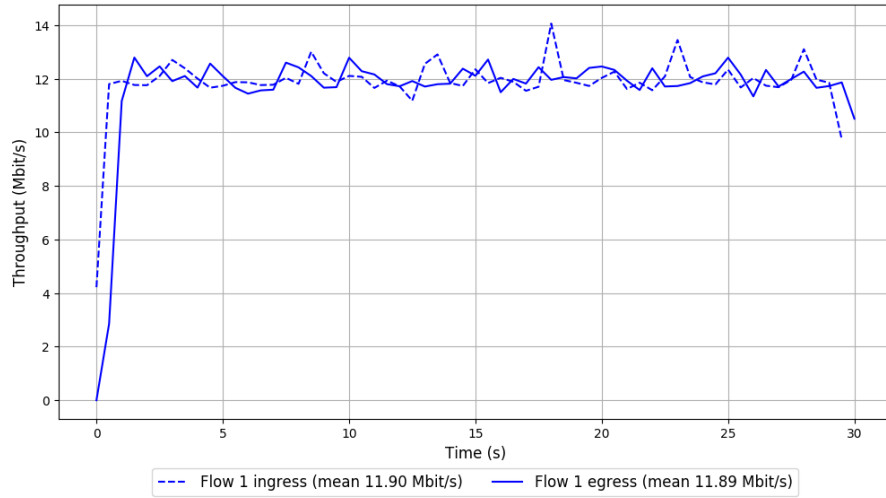


Run 1: Statistics of Sprout

Start at: 2019-06-27 13:18:49  
End at: 2019-06-27 13:19:19  
Local clock offset: -2.867 ms  
Remote clock offset: -3.035 ms

# Below is generated by plot.py at 2019-06-27 15:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.89 Mbit/s  
95th percentile per-packet one-way delay: 46.671 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 11.89 Mbit/s  
95th percentile per-packet one-way delay: 46.671 ms  
Loss rate: 0.17%

Run 1: Report of Sprout — Data Link

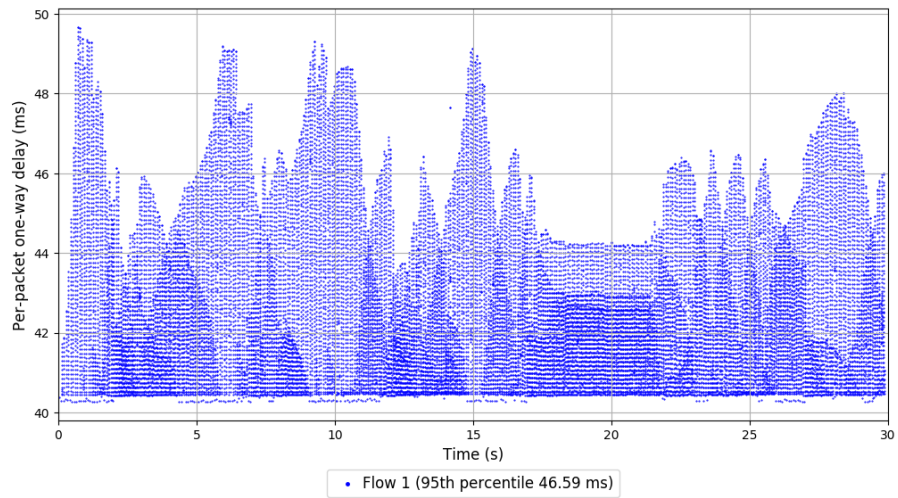
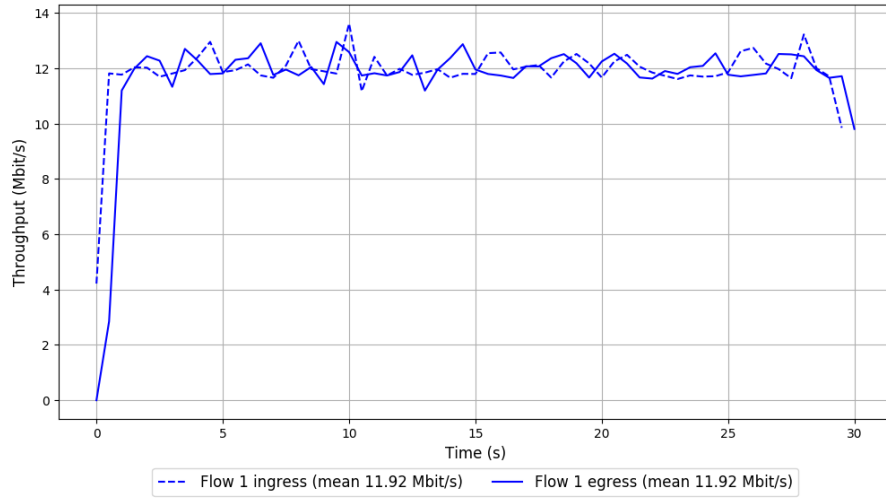


Run 2: Statistics of Sprout

Start at: 2019-06-27 13:46:31  
End at: 2019-06-27 13:47:01  
Local clock offset: 0.87 ms  
Remote clock offset: -1.717 ms

# Below is generated by plot.py at 2019-06-27 15:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.92 Mbit/s  
95th percentile per-packet one-way delay: 46.587 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 11.92 Mbit/s  
95th percentile per-packet one-way delay: 46.587 ms  
Loss rate: 0.28%

Run 2: Report of Sprout — Data Link

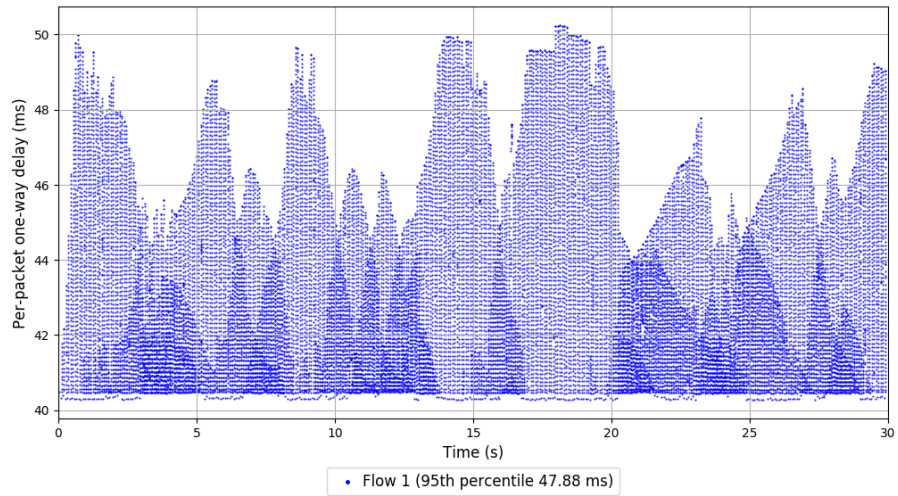
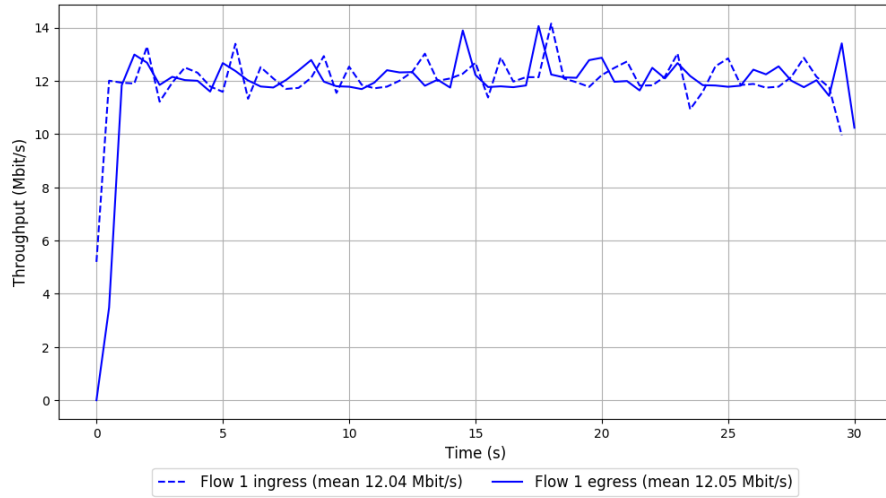


Run 3: Statistics of Sprout

Start at: 2019-06-27 14:13:27  
End at: 2019-06-27 14:13:57  
Local clock offset: 0.687 ms  
Remote clock offset: -2.227 ms

# Below is generated by plot.py at 2019-06-27 15:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.05 Mbit/s  
95th percentile per-packet one-way delay: 47.880 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.05 Mbit/s  
95th percentile per-packet one-way delay: 47.880 ms  
Loss rate: 0.00%

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

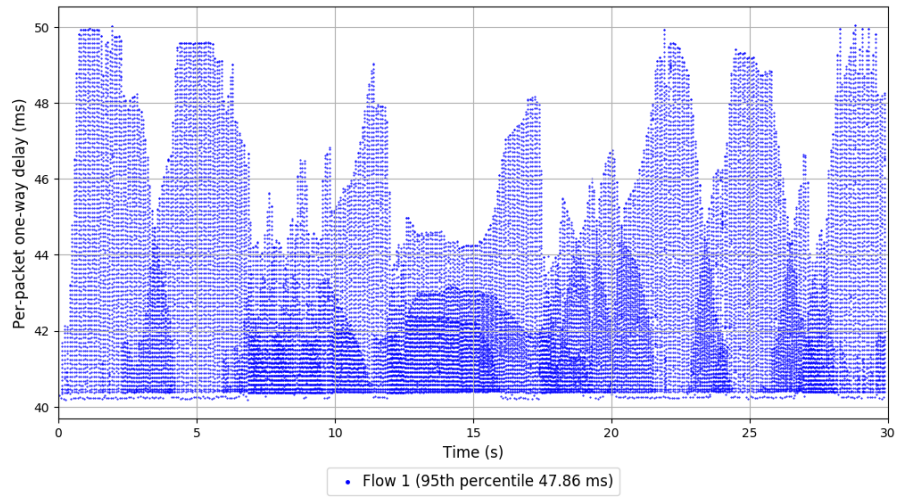
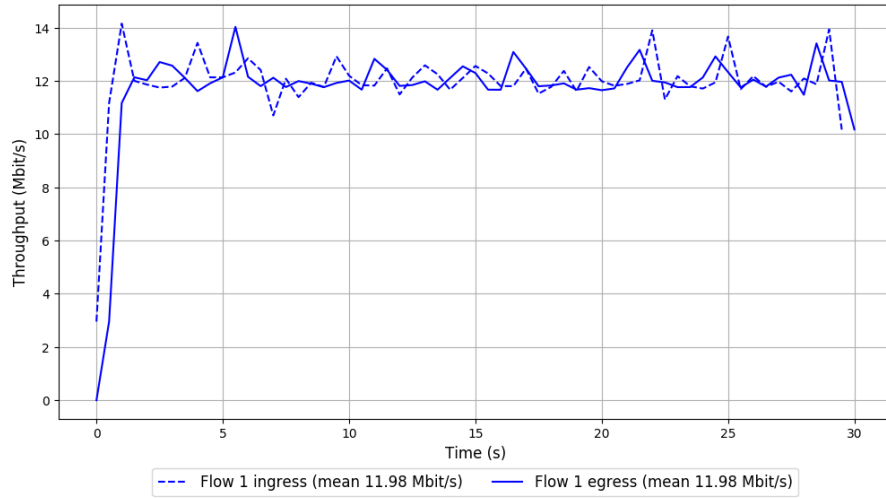


Run 4: Statistics of Sprout

Start at: 2019-06-27 14:41:21  
End at: 2019-06-27 14:41:51  
Local clock offset: -3.545 ms  
Remote clock offset: -2.257 ms

# Below is generated by plot.py at 2019-06-27 15:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.98 Mbit/s  
95th percentile per-packet one-way delay: 47.863 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 11.98 Mbit/s  
95th percentile per-packet one-way delay: 47.863 ms  
Loss rate: 0.27%

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





Run 5: Statistics of Sprout

Start at: 2019-06-27 15:08:22

End at: 2019-06-27 15:08:52

Local clock offset: -3.11 ms

Remote clock offset: -2.293 ms

# Below is generated by plot.py at 2019-06-27 15:39:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 47.408 ms

Loss rate: 0.25%

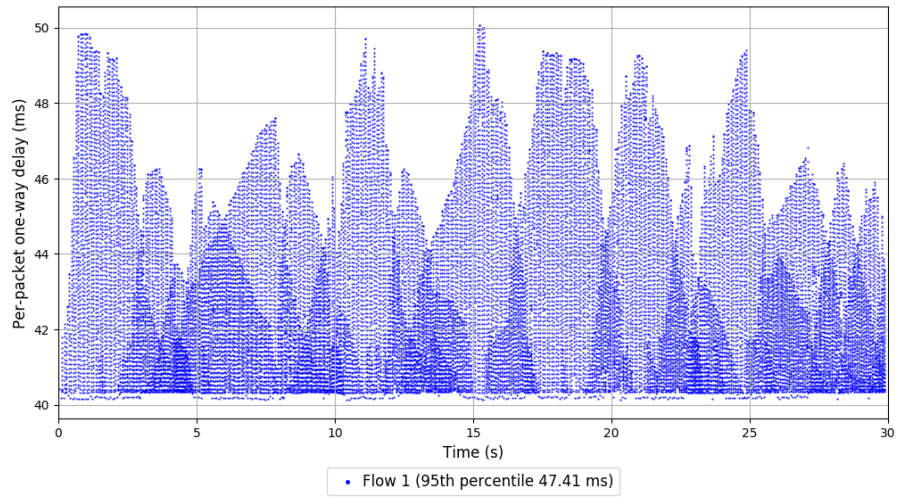
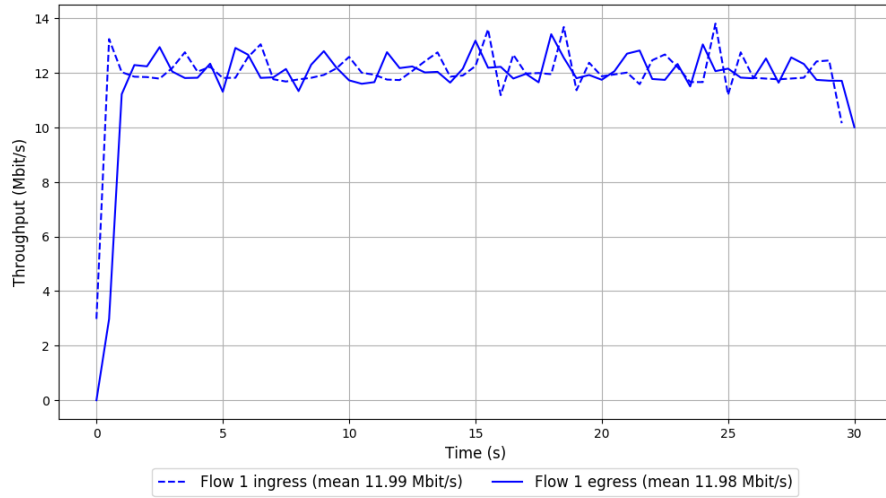
-- Flow 1:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 47.408 ms

Loss rate: 0.25%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-06-27 13:36:10

End at: 2019-06-27 13:36:40

Local clock offset: 0.288 ms

Remote clock offset: -2.323 ms

# Below is generated by plot.py at 2019-06-27 15:41:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.44 Mbit/s

95th percentile per-packet one-way delay: 51.937 ms

Loss rate: 0.26%

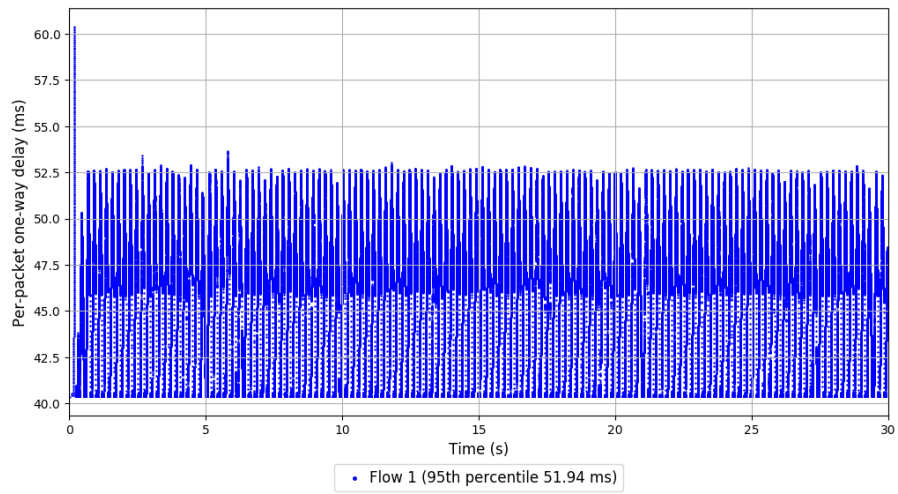
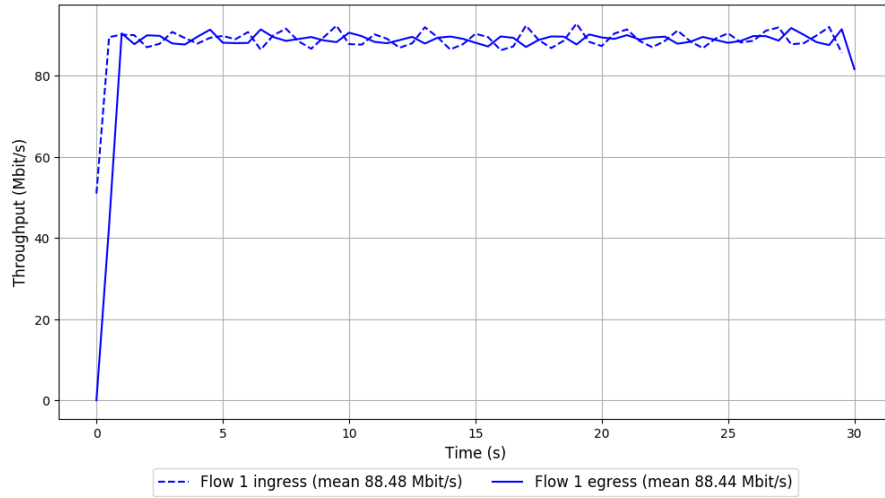
-- Flow 1:

Average throughput: 88.44 Mbit/s

95th percentile per-packet one-way delay: 51.937 ms

Loss rate: 0.26%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-06-27 14:03:39

End at: 2019-06-27 14:04:09

Local clock offset: 0.603 ms

Remote clock offset: -2.072 ms

# Below is generated by plot.py at 2019-06-27 15:41:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 51.881 ms

Loss rate: 0.22%

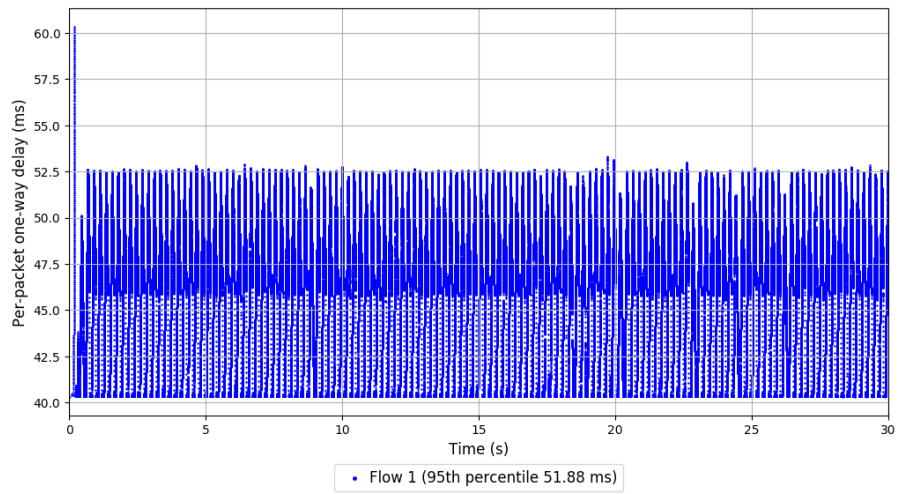
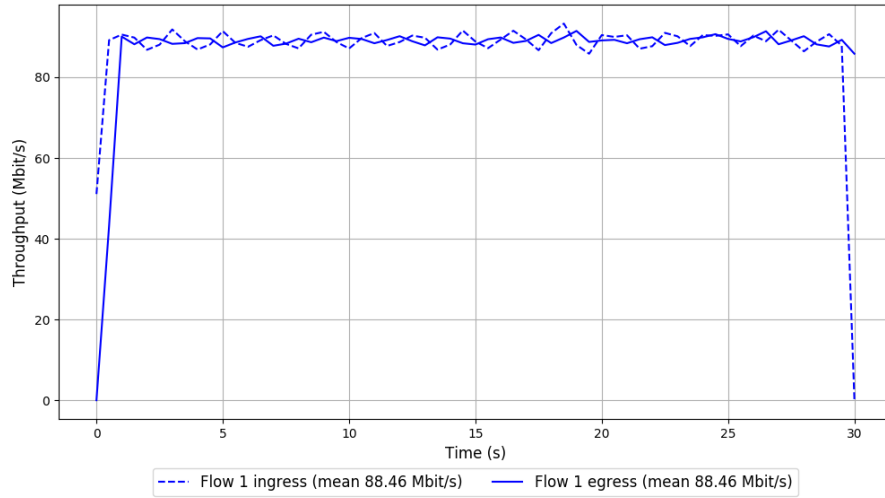
-- Flow 1:

Average throughput: 88.46 Mbit/s

95th percentile per-packet one-way delay: 51.881 ms

Loss rate: 0.22%

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

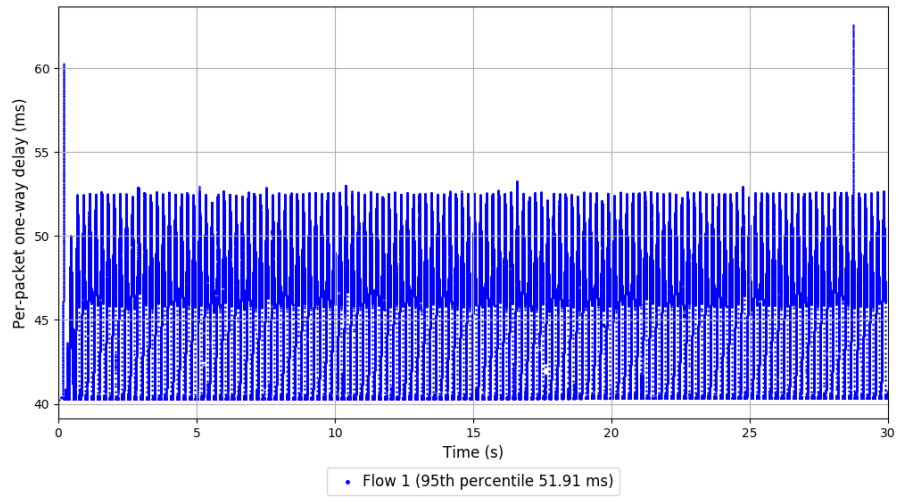
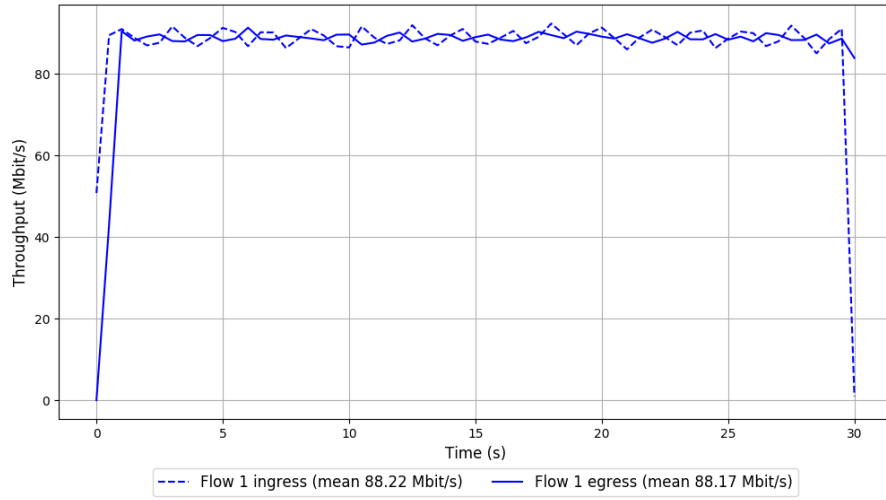


Run 3: Statistics of TaoVA-100x

Start at: 2019-06-27 14:30:50  
End at: 2019-06-27 14:31:20  
Local clock offset: -2.584 ms  
Remote clock offset: -2.197 ms

# Below is generated by plot.py at 2019-06-27 15:41:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.17 Mbit/s  
95th percentile per-packet one-way delay: 51.909 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 88.17 Mbit/s  
95th percentile per-packet one-way delay: 51.909 ms  
Loss rate: 0.28%

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



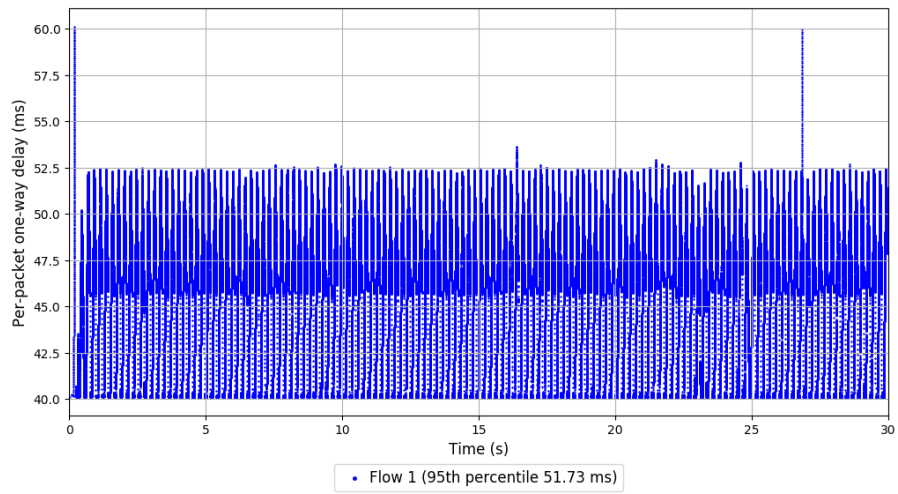
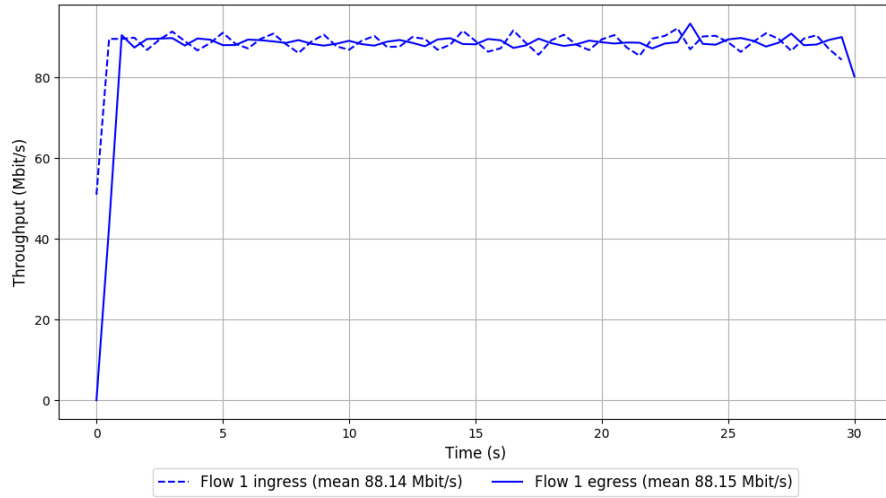


Run 4: Statistics of TaoVA-100x

Start at: 2019-06-27 14:58:31  
End at: 2019-06-27 14:59:01  
Local clock offset: -3.222 ms  
Remote clock offset: -2.186 ms

# Below is generated by plot.py at 2019-06-27 15:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.15 Mbit/s  
95th percentile per-packet one-way delay: 51.726 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 88.15 Mbit/s  
95th percentile per-packet one-way delay: 51.726 ms  
Loss rate: 0.20%

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



Run 5: Statistics of TaoVA-100x

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

End at: 2019-06-27 15:25:36

Local clock offset: -1.239 ms

Remote clock offset: -2.495 ms

# Below is generated by plot.py at 2019-06-27 15:41:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 51.745 ms

Loss rate: 0.20%

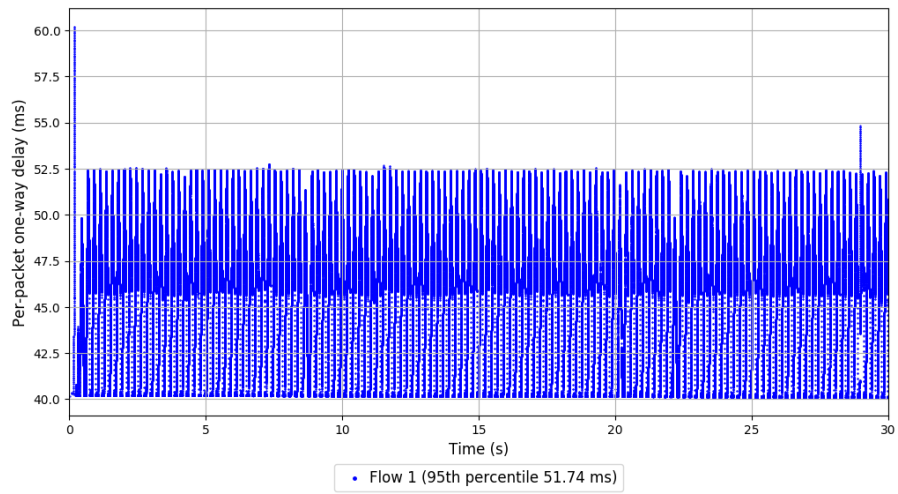
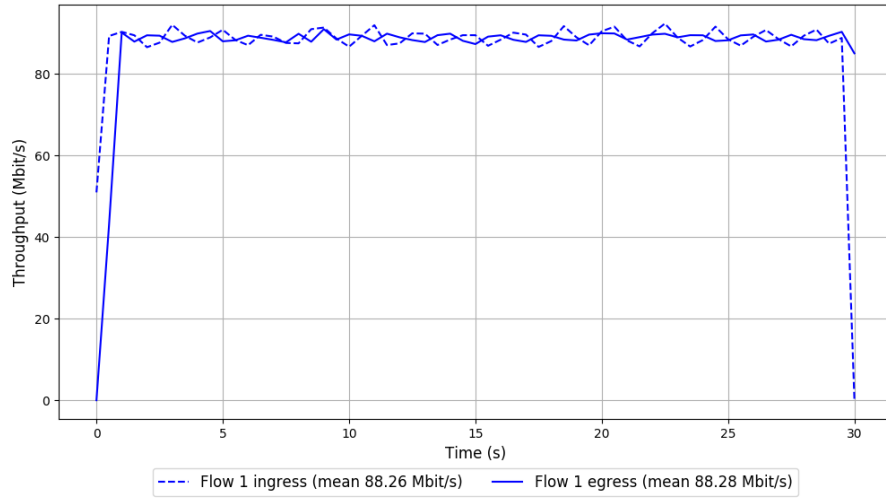
-- Flow 1:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 51.745 ms

Loss rate: 0.20%

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

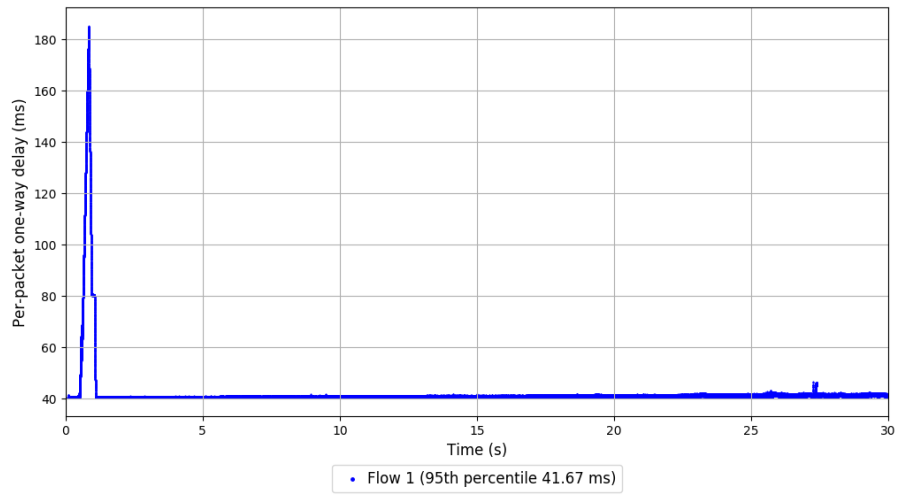
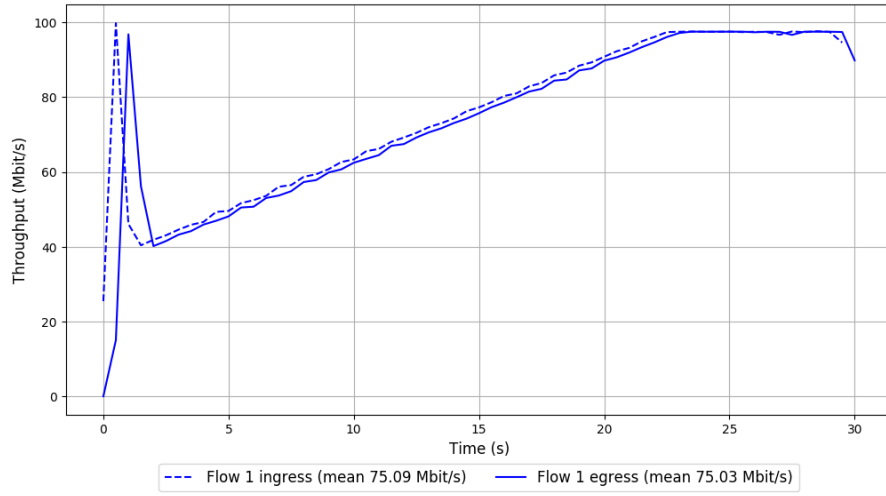


Run 1: Statistics of TCP Vegas

Start at: 2019-06-27 13:24:43  
End at: 2019-06-27 13:25:13  
Local clock offset: -1.217 ms  
Remote clock offset: -2.859 ms

# Below is generated by plot.py at 2019-06-27 15:41:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.03 Mbit/s  
95th percentile per-packet one-way delay: 41.675 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 75.03 Mbit/s  
95th percentile per-packet one-way delay: 41.675 ms  
Loss rate: 0.29%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-06-27 13:52:34

End at: 2019-06-27 13:53:04

Local clock offset: 0.746 ms

Remote clock offset: -1.722 ms

# Below is generated by plot.py at 2019-06-27 15:41:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 41.802 ms

Loss rate: 0.29%

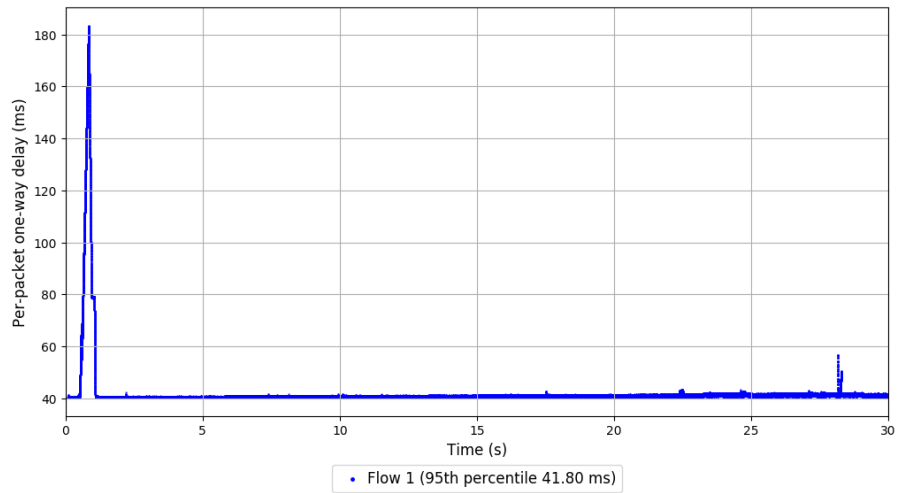
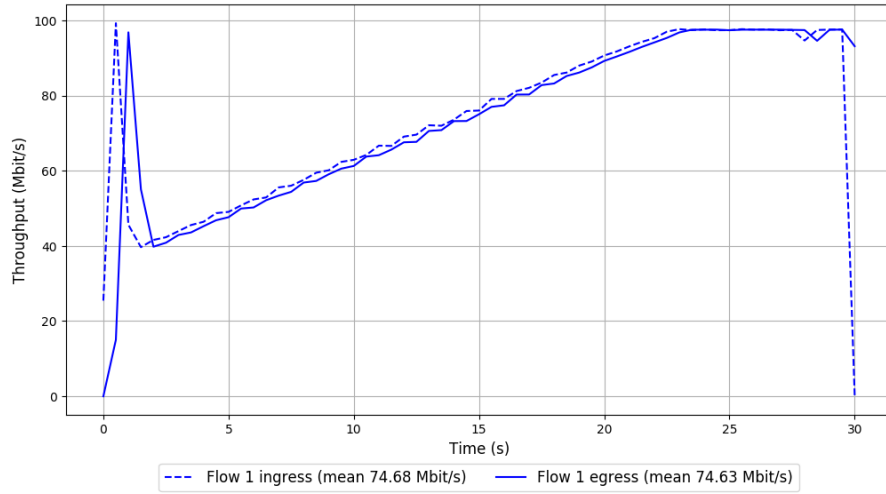
-- Flow 1:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 41.802 ms

Loss rate: 0.29%

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





Run 3: Statistics of TCP Vegas

Start at: 2019-06-27 14:19:34

End at: 2019-06-27 14:20:04

Local clock offset: 0.116 ms

Remote clock offset: -2.25 ms

# Below is generated by plot.py at 2019-06-27 15:41:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 42.141 ms

Loss rate: 0.24%

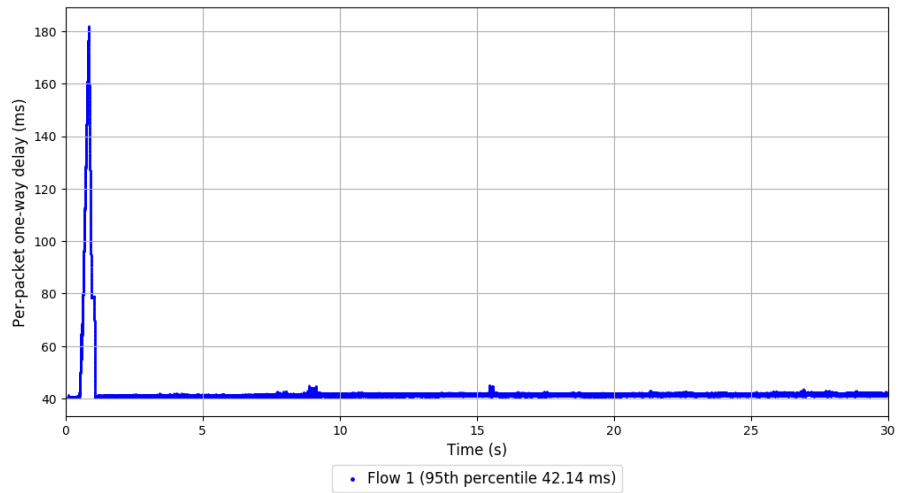
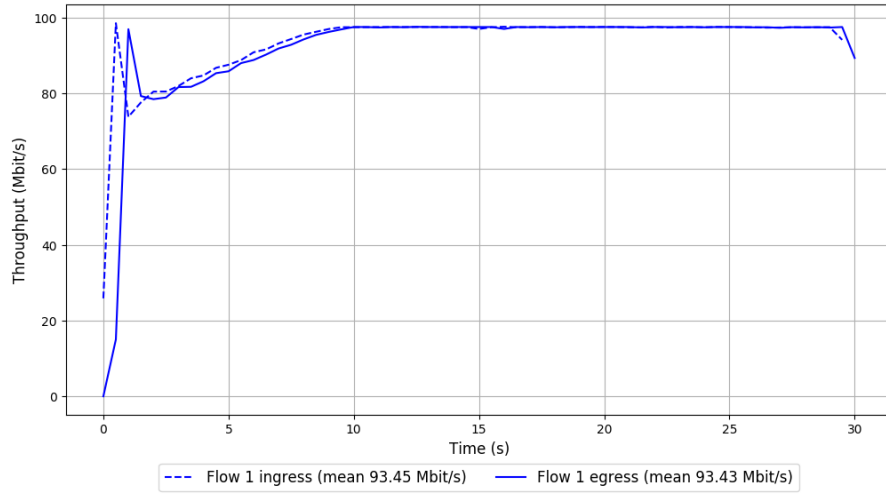
-- Flow 1:

Average throughput: 93.43 Mbit/s

95th percentile per-packet one-way delay: 42.141 ms

Loss rate: 0.24%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-06-27 14:47:26

End at: 2019-06-27 14:47:56

Local clock offset: -3.9 ms

Remote clock offset: -2.242 ms

# Below is generated by plot.py at 2019-06-27 15:41:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.82 Mbit/s

95th percentile per-packet one-way delay: 40.800 ms

Loss rate: 0.23%

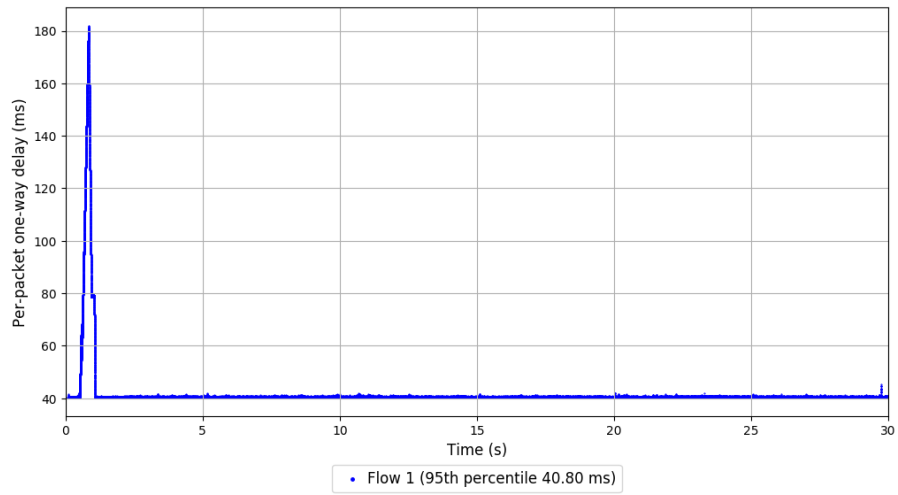
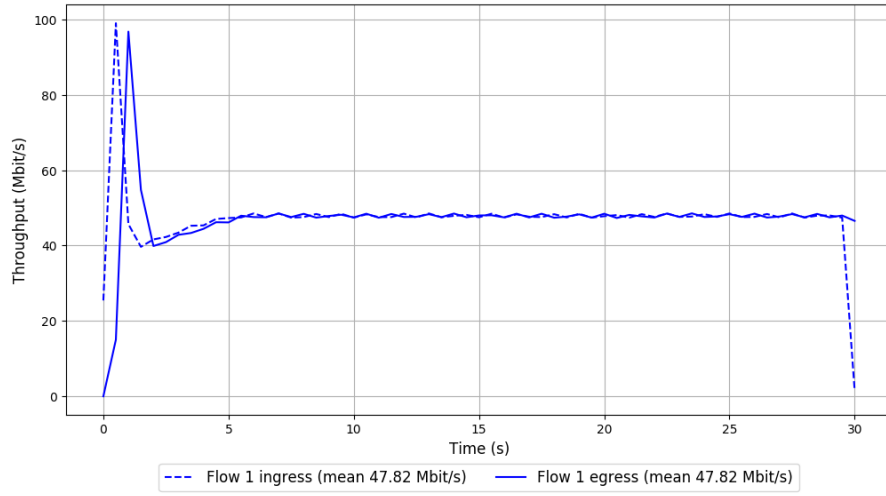
-- Flow 1:

Average throughput: 47.82 Mbit/s

95th percentile per-packet one-way delay: 40.800 ms

Loss rate: 0.23%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-06-27 15:14:24

End at: 2019-06-27 15:14:54

Local clock offset: -3.156 ms

Remote clock offset: -2.37 ms

# Below is generated by plot.py at 2019-06-27 15:41:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.61 Mbit/s

95th percentile per-packet one-way delay: 41.704 ms

Loss rate: 0.29%

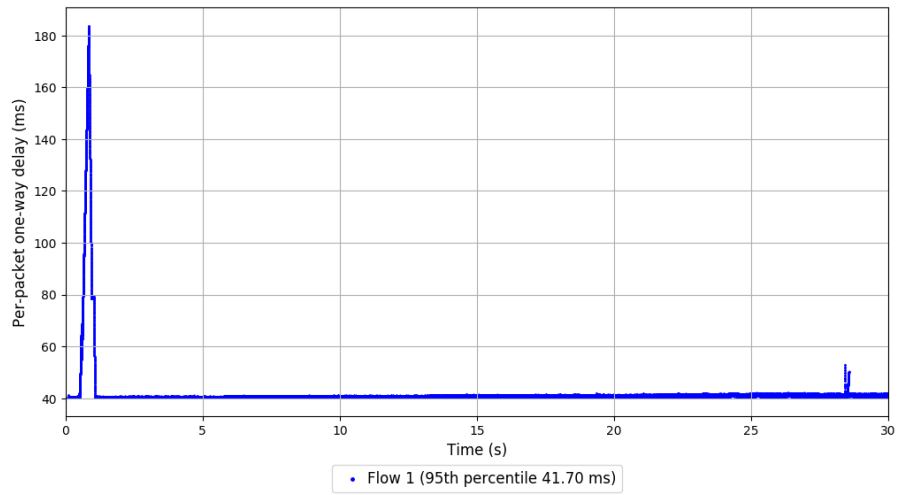
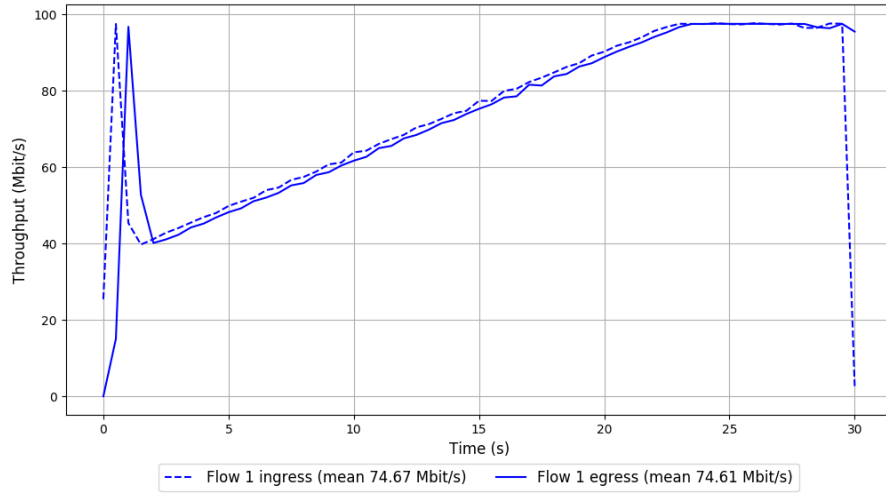
-- Flow 1:

Average throughput: 74.61 Mbit/s

95th percentile per-packet one-way delay: 41.704 ms

Loss rate: 0.29%

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

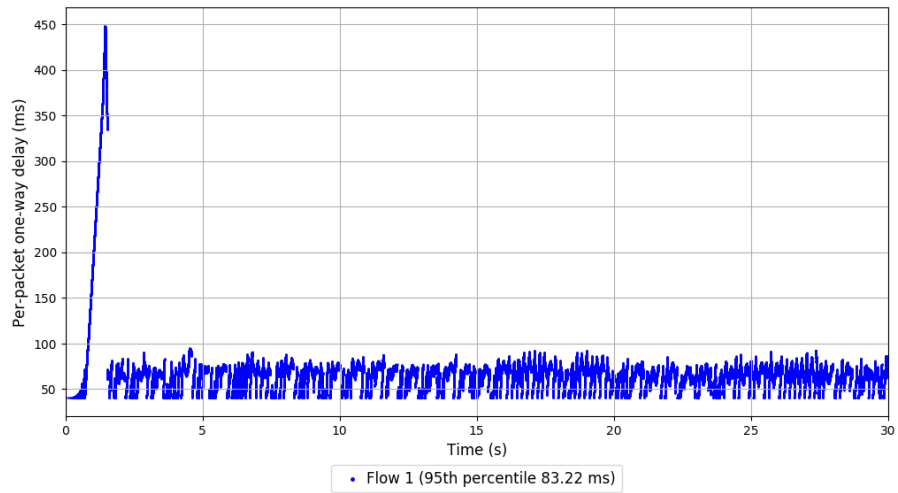
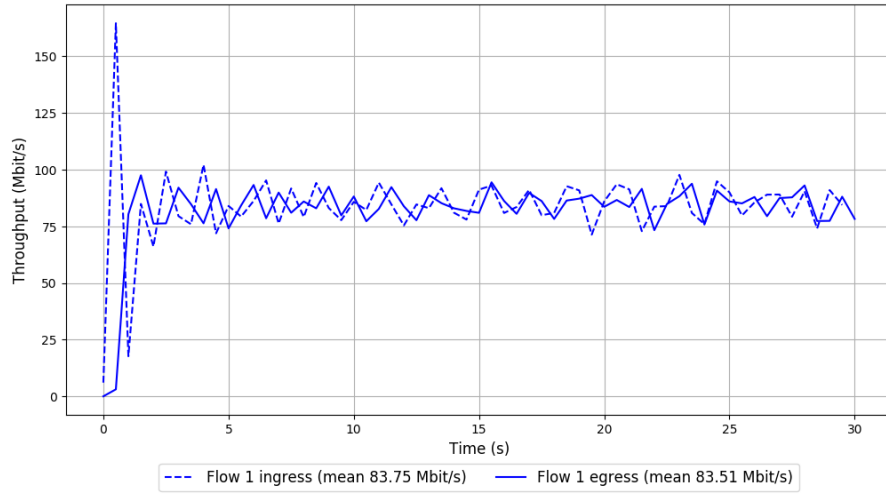


Run 1: Statistics of Verus

Start at: 2019-06-27 13:11:48  
End at: 2019-06-27 13:12:18  
Local clock offset: -3.034 ms  
Remote clock offset: -3.279 ms

# Below is generated by plot.py at 2019-06-27 15:42:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.51 Mbit/s  
95th percentile per-packet one-way delay: 83.217 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 83.51 Mbit/s  
95th percentile per-packet one-way delay: 83.217 ms  
Loss rate: 0.50%

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





Run 2: Statistics of Verus

Start at: 2019-06-27 13:38:48

End at: 2019-06-27 13:39:18

Local clock offset: 0.44 ms

Remote clock offset: -2.106 ms

# Below is generated by plot.py at 2019-06-27 15:42:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 81.259 ms

Loss rate: 0.51%

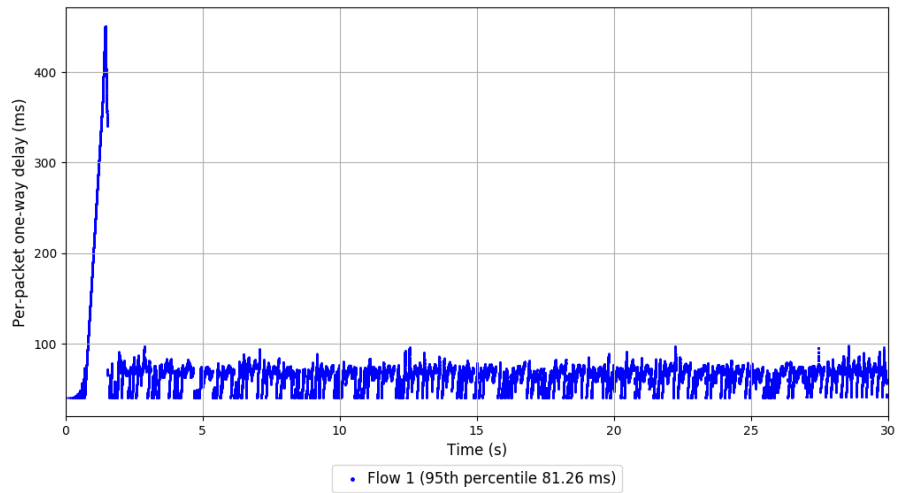
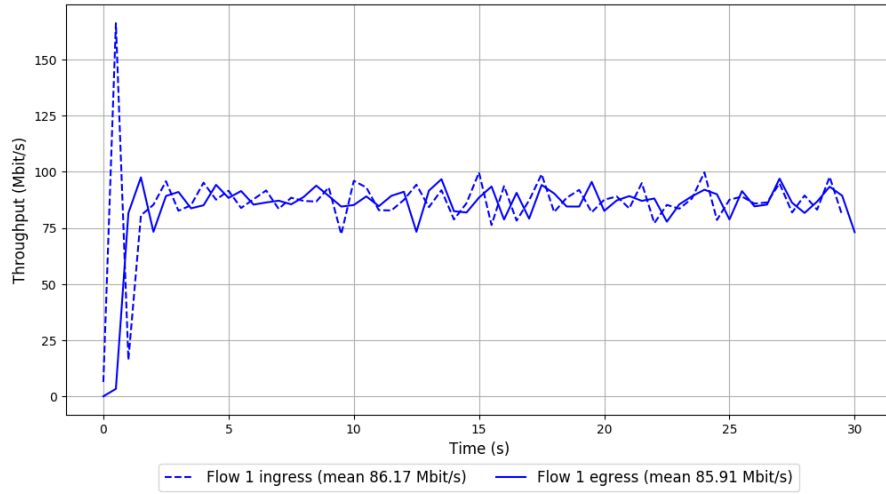
-- Flow 1:

Average throughput: 85.91 Mbit/s

95th percentile per-packet one-way delay: 81.259 ms

Loss rate: 0.51%

## Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-06-27 14:06:18

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

Local clock offset: 0.594 ms

Remote clock offset: -2.083 ms

# Below is generated by plot.py at 2019-06-27 15:42:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 79.830 ms

Loss rate: 0.46%

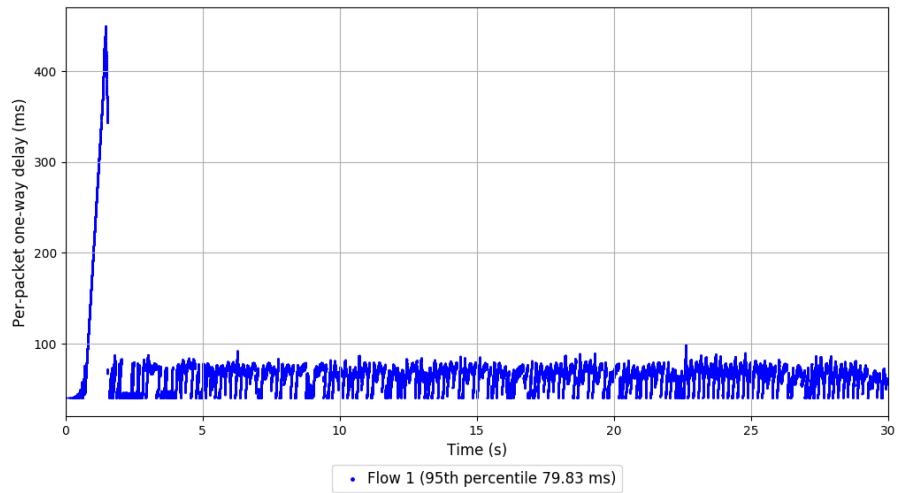
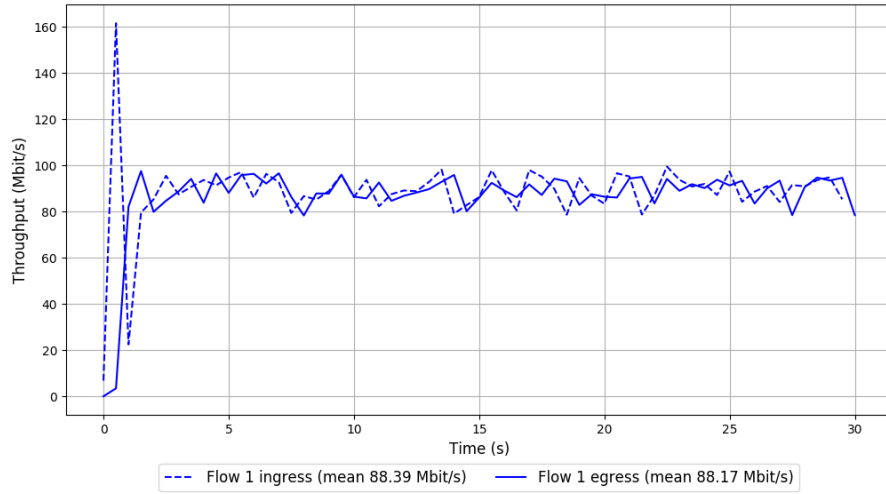
-- Flow 1:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 79.830 ms

Loss rate: 0.46%

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

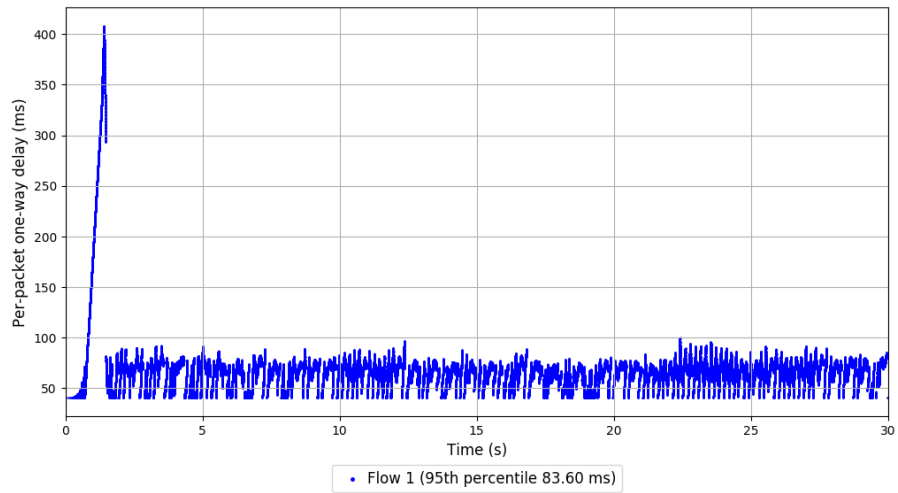
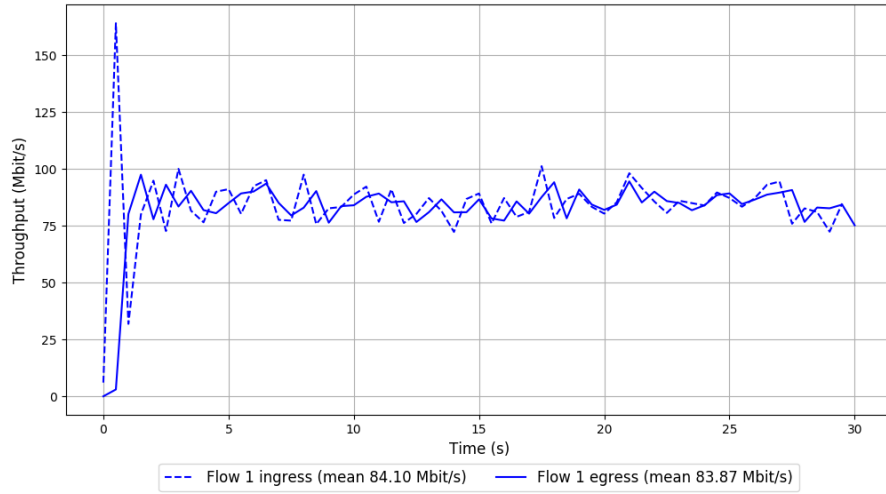


Run 4: Statistics of Verus

Start at: 2019-06-27 14:33:33  
End at: 2019-06-27 14:34:03  
Local clock offset: -2.921 ms  
Remote clock offset: -2.226 ms

```
# Below is generated by plot.py at 2019-06-27 15:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 83.599 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 83.599 ms
Loss rate: 0.50%
```

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

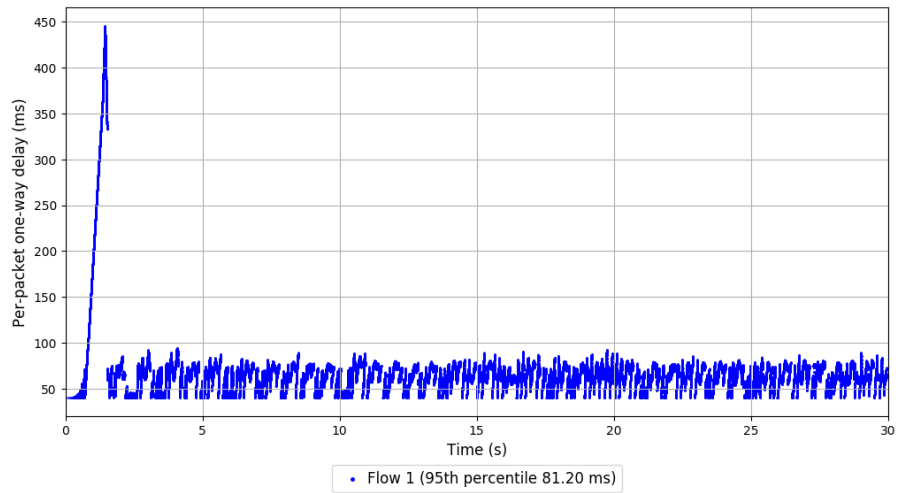
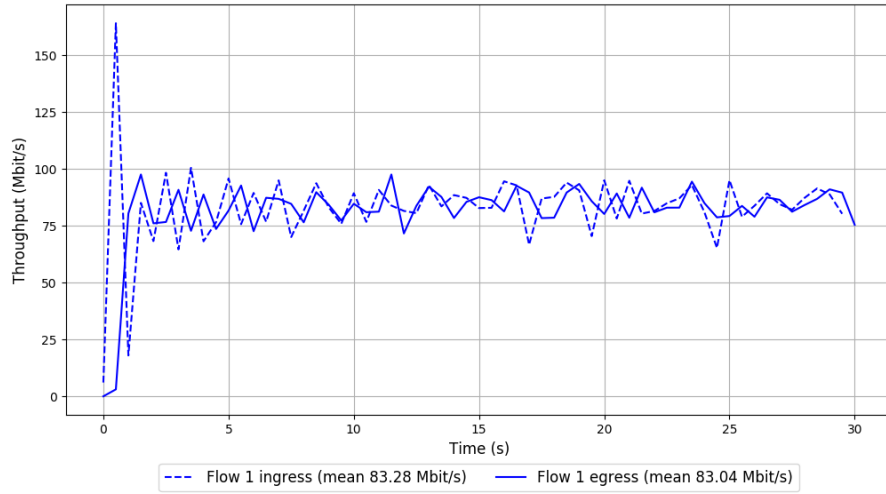


Run 5: Statistics of Verus

Start at: 2019-06-27 15:01:11  
End at: 2019-06-27 15:01:41  
Local clock offset: -3.169 ms  
Remote clock offset: -2.283 ms

```
# Below is generated by plot.py at 2019-06-27 15:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 81.197 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 81.197 ms
Loss rate: 0.49%
```

Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2019-06-27 13:33:35

End at: 2019-06-27 13:34:05

Local clock offset: 0.03 ms

Remote clock offset: -2.414 ms

# Below is generated by plot.py at 2019-06-27 15:42:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 41.504 ms

Loss rate: 0.24%

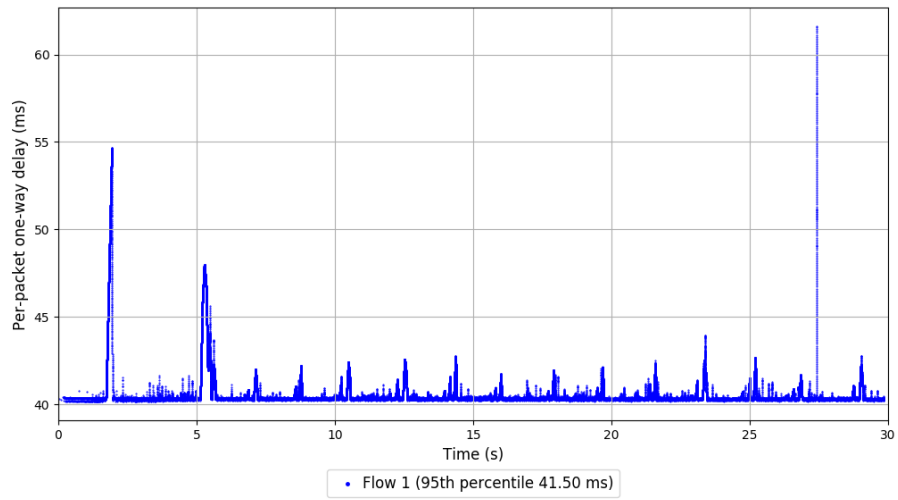
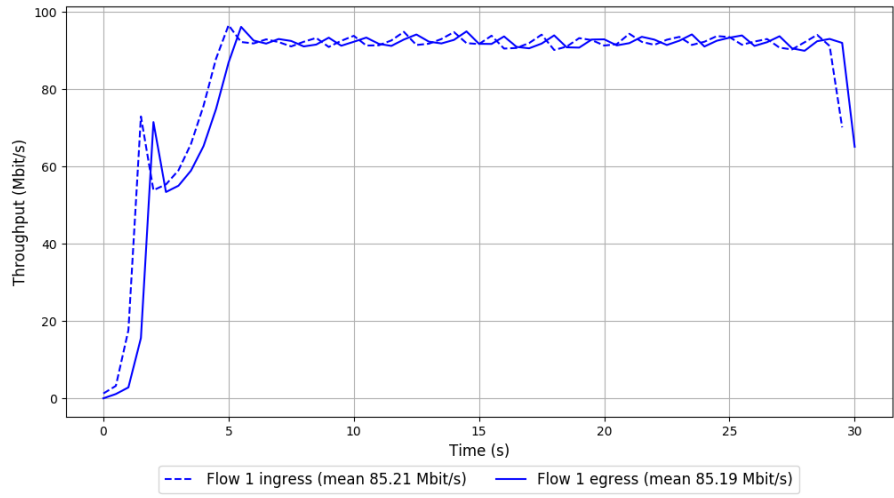
-- Flow 1:

Average throughput: 85.19 Mbit/s

95th percentile per-packet one-way delay: 41.504 ms

Loss rate: 0.24%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-06-27 14:01:15

End at: 2019-06-27 14:01:45

Local clock offset: 0.592 ms

Remote clock offset: -2.023 ms

# Below is generated by plot.py at 2019-06-27 15:42:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.70 Mbit/s

95th percentile per-packet one-way delay: 42.300 ms

Loss rate: 0.27%

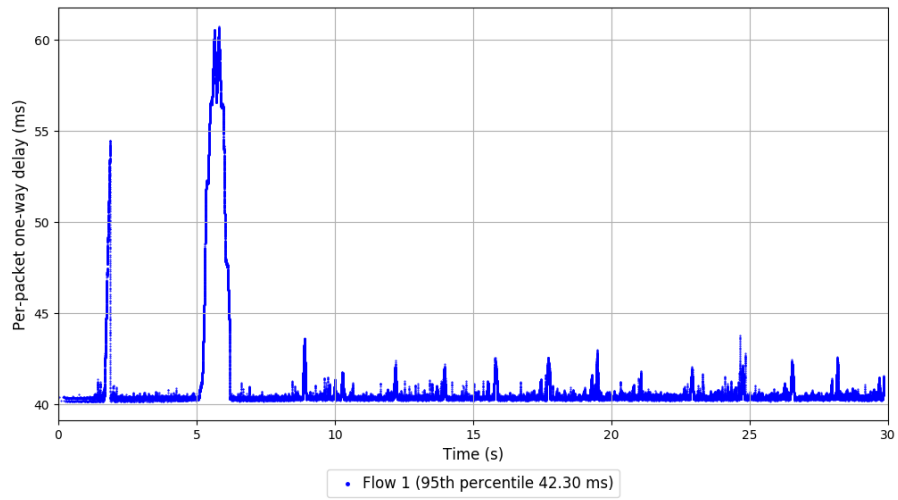
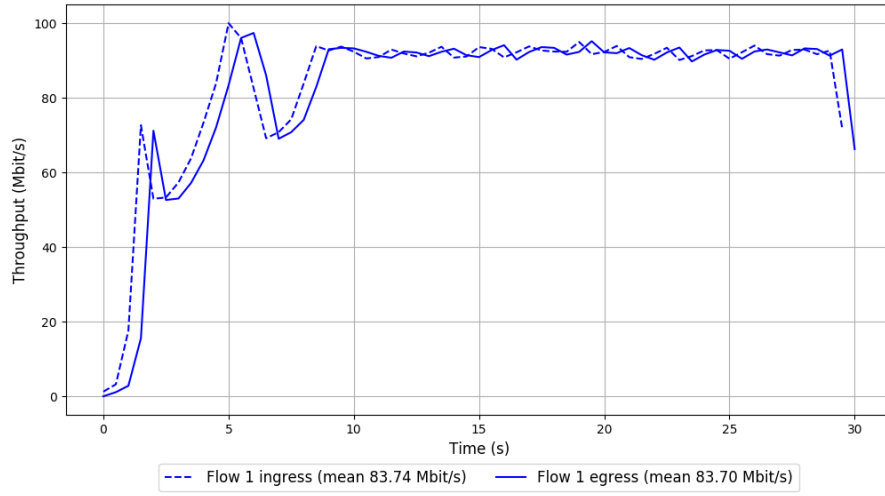
-- Flow 1:

Average throughput: 83.70 Mbit/s

95th percentile per-packet one-way delay: 42.300 ms

Loss rate: 0.27%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-06-27 14:28:25

End at: 2019-06-27 14:28:55

Local clock offset: -2.216 ms

Remote clock offset: -2.191 ms

# Below is generated by plot.py at 2019-06-27 15:42:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 41.545 ms

Loss rate: 0.24%

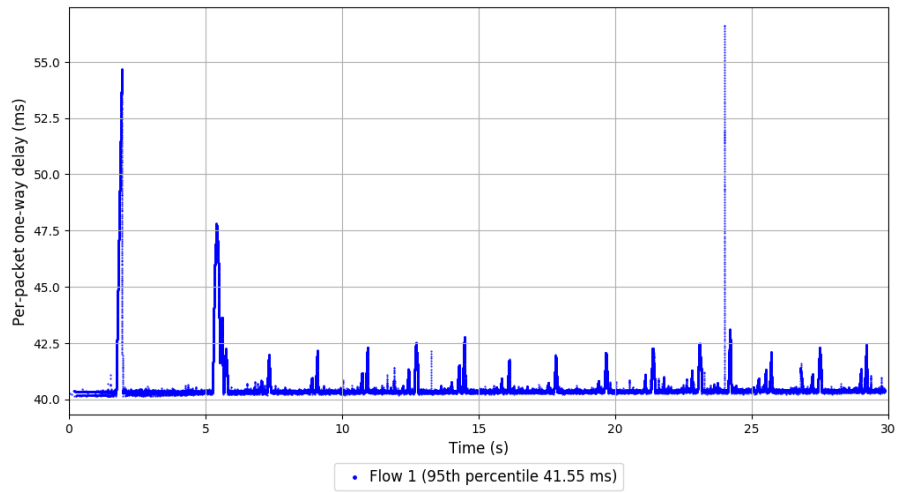
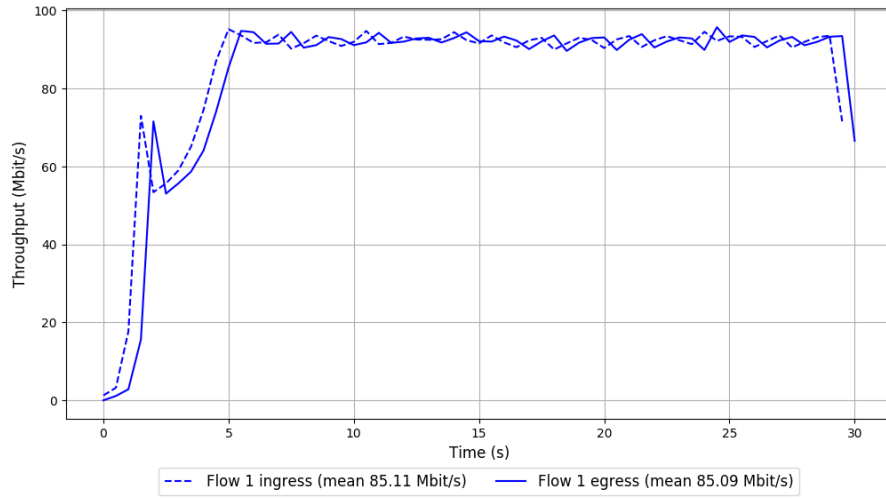
-- Flow 1:

Average throughput: 85.09 Mbit/s

95th percentile per-packet one-way delay: 41.545 ms

Loss rate: 0.24%

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

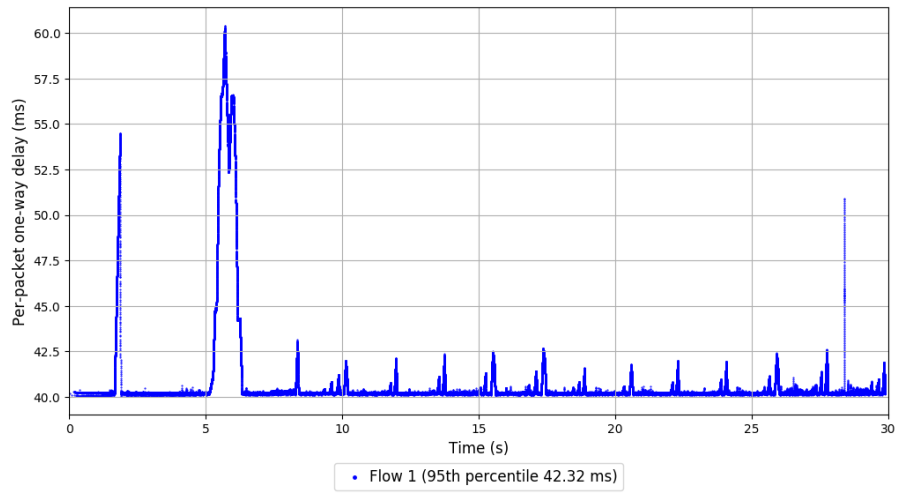
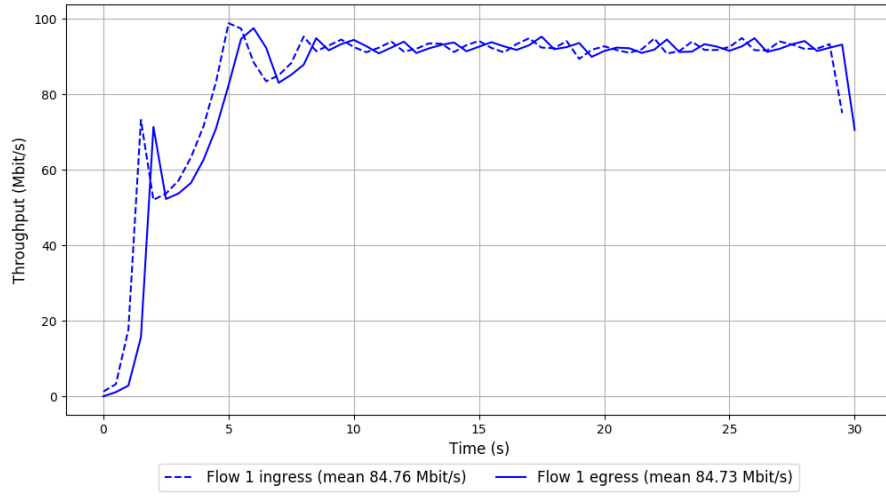


Run 4: Statistics of PCC-Vivace

Start at: 2019-06-27 14:56:07  
End at: 2019-06-27 14:56:37  
Local clock offset: -3.321 ms  
Remote clock offset: -2.282 ms

# Below is generated by plot.py at 2019-06-27 15:42:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.73 Mbit/s  
95th percentile per-packet one-way delay: 42.317 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 84.73 Mbit/s  
95th percentile per-packet one-way delay: 42.317 ms  
Loss rate: 0.24%

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





Run 5: Statistics of PCC-Vivace

Start at: 2019-06-27 15:22:44

End at: 2019-06-27 15:23:14

Local clock offset: -1.802 ms

Remote clock offset: -2.434 ms

# Below is generated by plot.py at 2019-06-27 15:42:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 41.296 ms

Loss rate: 0.23%

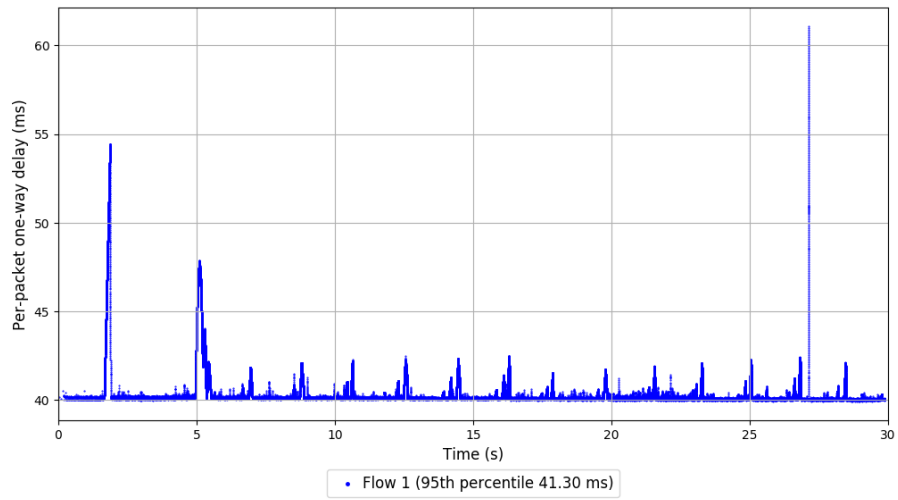
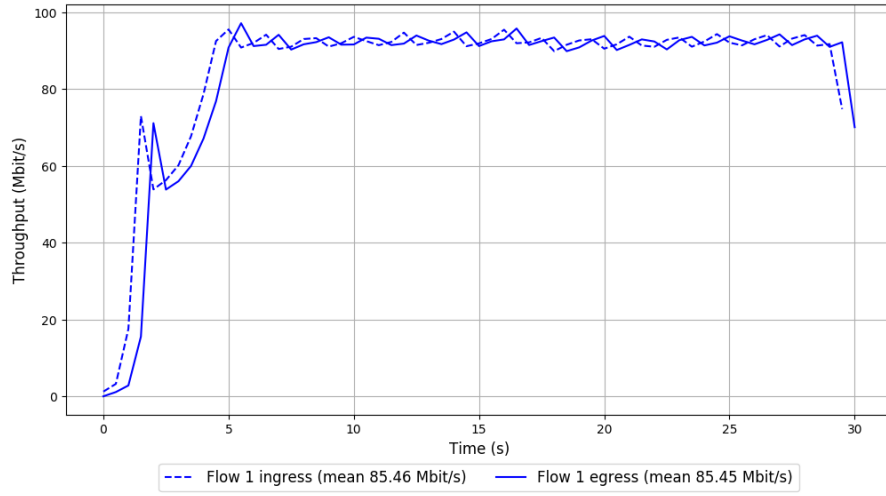
-- Flow 1:

Average throughput: 85.45 Mbit/s

95th percentile per-packet one-way delay: 41.296 ms

Loss rate: 0.23%

Run 5: Report of PCC-Vivace — Data Link

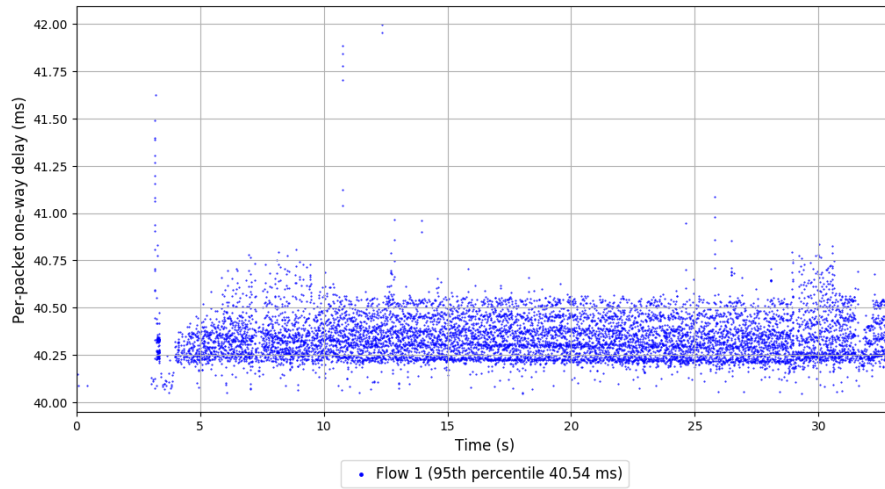
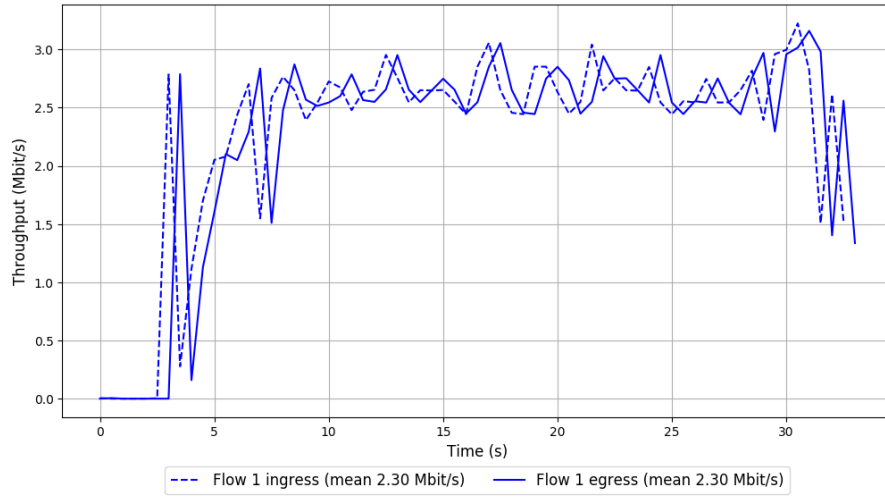


Run 1: Statistics of WebRTC media

Start at: 2019-06-27 13:35:02  
End at: 2019-06-27 13:35:32  
Local clock offset: 0.168 ms  
Remote clock offset: -2.279 ms

# Below is generated by plot.py at 2019-06-27 15:42:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.30 Mbit/s  
95th percentile per-packet one-way delay: 40.542 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 2.30 Mbit/s  
95th percentile per-packet one-way delay: 40.542 ms  
Loss rate: 0.26%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-06-27 14:02:32

End at: 2019-06-27 14:03:02

Local clock offset: 0.569 ms

Remote clock offset: -2.057 ms

# Below is generated by plot.py at 2019-06-27 15:42:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 40.729 ms

Loss rate: 0.24%

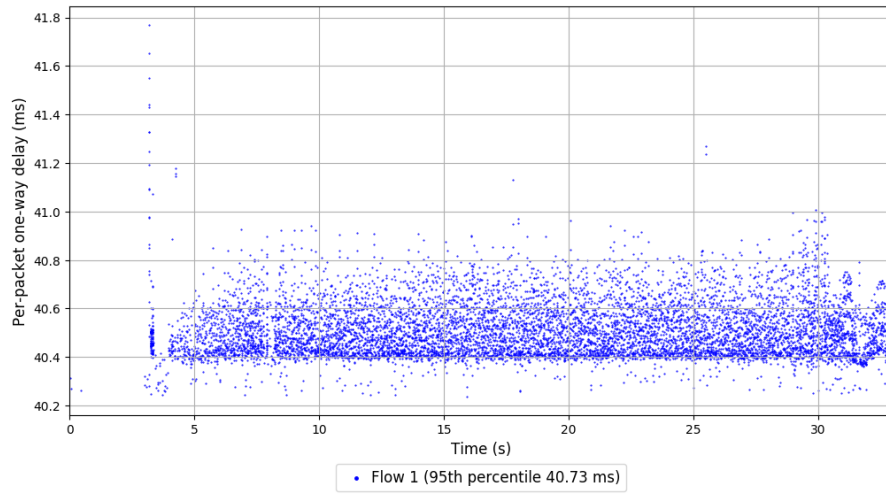
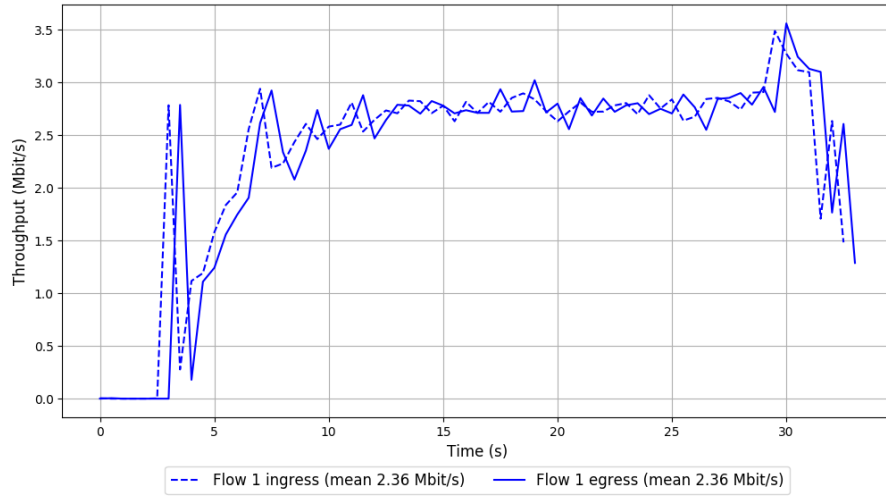
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 40.729 ms

Loss rate: 0.24%

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

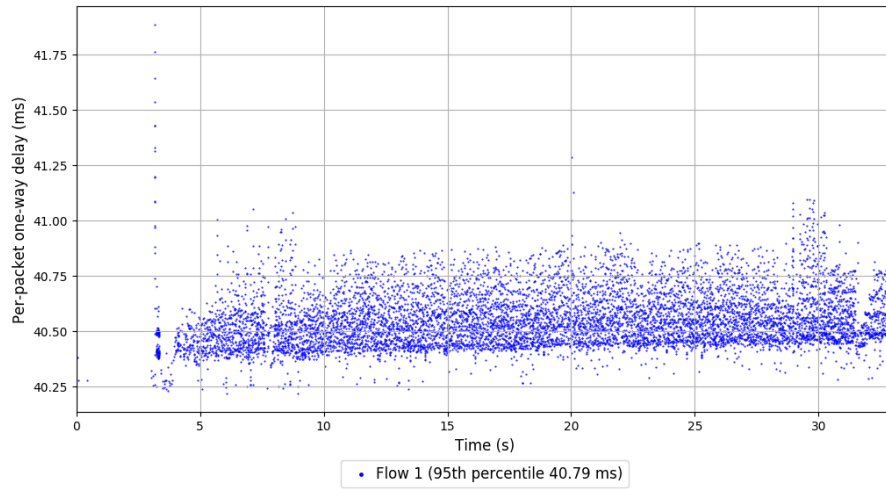
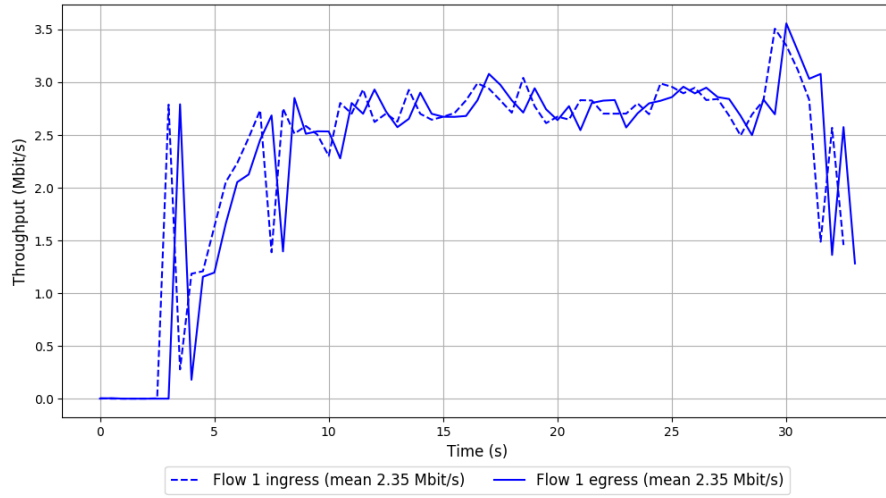


Run 3: Statistics of WebRTC media

Start at: 2019-06-27 14:29:42  
End at: 2019-06-27 14:30:12  
Local clock offset: -2.446 ms  
Remote clock offset: -2.241 ms

# Below is generated by plot.py at 2019-06-27 15:42:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 40.792 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 40.792 ms  
Loss rate: 0.22%

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





Run 4: Statistics of WebRTC media

Start at: 2019-06-27 14:57:24

End at: 2019-06-27 14:57:54

Local clock offset: -3.26 ms

Remote clock offset: -2.204 ms

# Below is generated by plot.py at 2019-06-27 15:42:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 40.572 ms

Loss rate: 0.17%

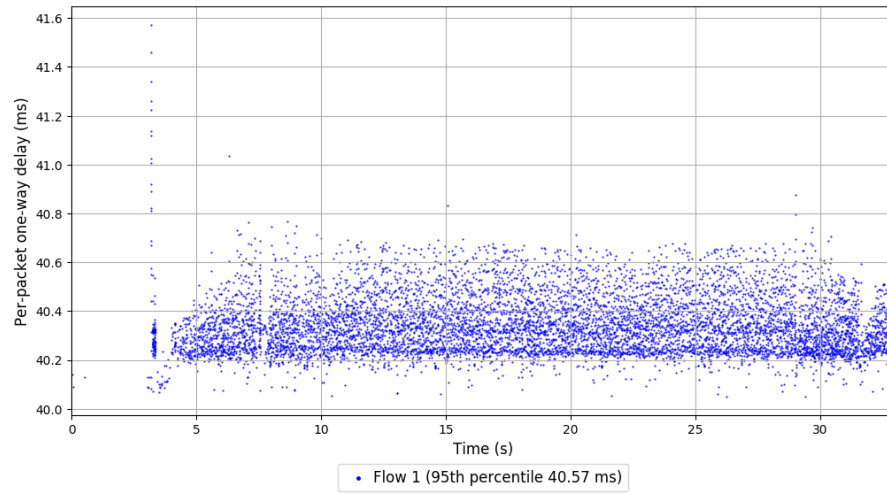
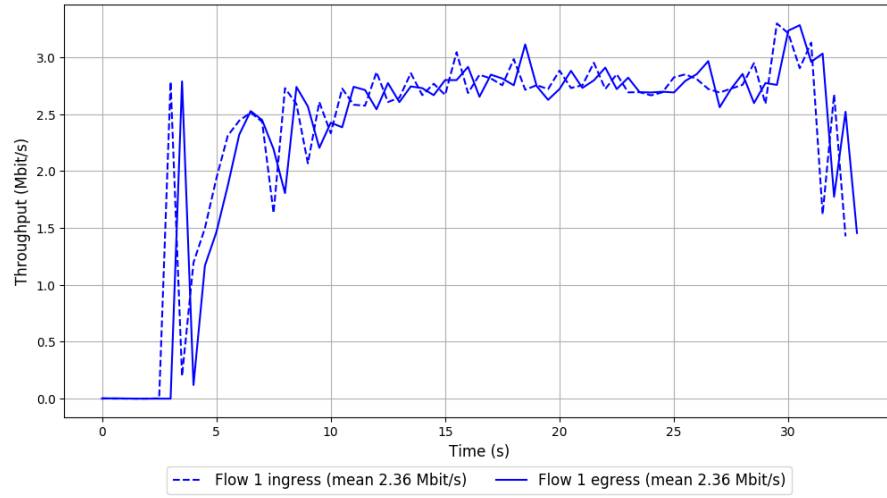
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 40.572 ms

Loss rate: 0.17%

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



Run 5: Statistics of WebRTC media

Start at: 2019-06-27 15:23:59

End at: 2019-06-27 15:24:29

Local clock offset: -1.464 ms

Remote clock offset: -2.46 ms

# Below is generated by plot.py at 2019-06-27 15:42:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 40.723 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 40.723 ms

Loss rate: 0.28%

Run 5: Report of WebRTC media — Data Link

