

## Pantheon Report

Generated at 2019-06-27 15:29:36 (UTC).

Data path: Brazil on p4p1 (*remote*) → AWS Brazil 1 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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

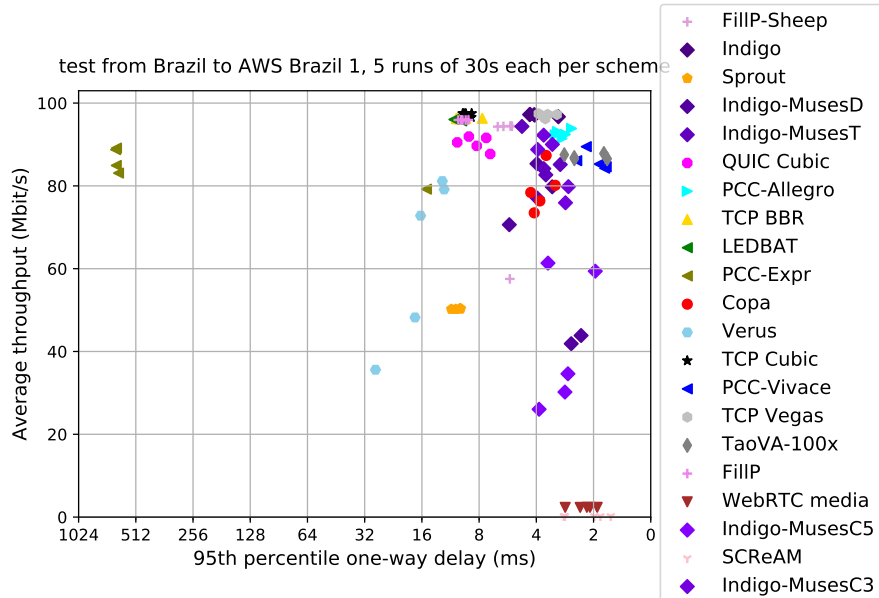
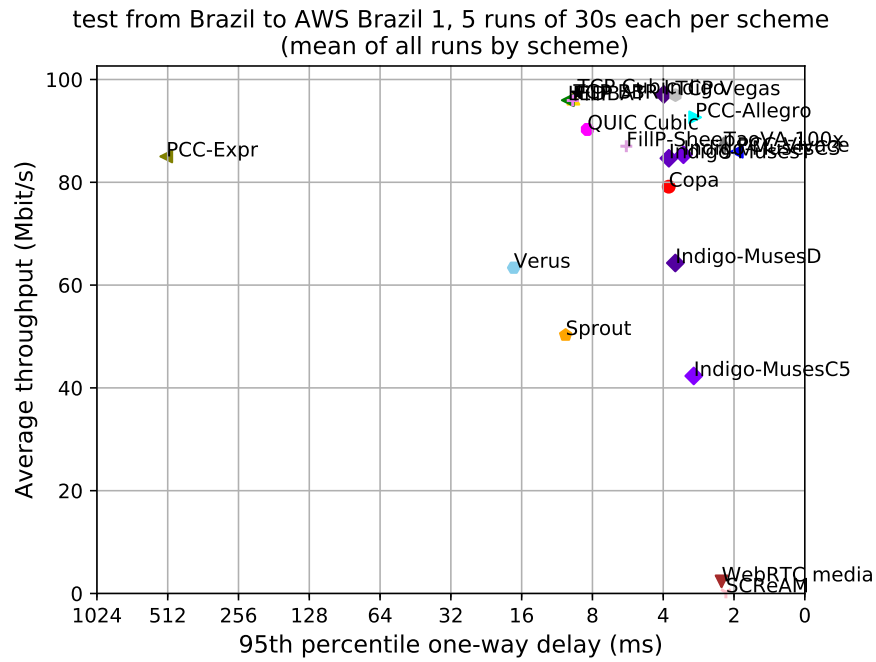
### System info:

```
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/utils.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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
```

```
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.27	9.64	0.19
Copa	5	79.14	3.79	0.01
TCP Cubic	5	97.29	9.27	0.05
FillP	5	95.92	9.71	0.03
FillP-Sheep	5	87.02	5.74	0.01
Indigo	5	97.09	3.98	0.02
Indigo-MusesC3	5	85.36	3.28	0.01
Indigo-MusesC5	5	42.33	2.97	0.01
Indigo-MusesD	5	64.30	3.55	0.01
Indigo-MusesT	5	84.67	3.79	0.01
LEDBAT	5	95.97	10.19	0.08
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	92.63	2.93	0.01
PCC-Expr	5	85.02	519.44	2.97
QUIC Cubic	5	90.28	8.41	0.02
SCReAM	5	0.22	2.17	0.03
Sprout	5	50.29	10.40	0.00
TaoVA-100x	5	87.06	2.21	0.01
TCP Vegas	5	96.96	3.55	0.01
Verus	5	63.38	17.28	0.03
PCC-Vivace	5	85.94	1.92	0.01
WebRTC media	5	2.35	2.26	0.01

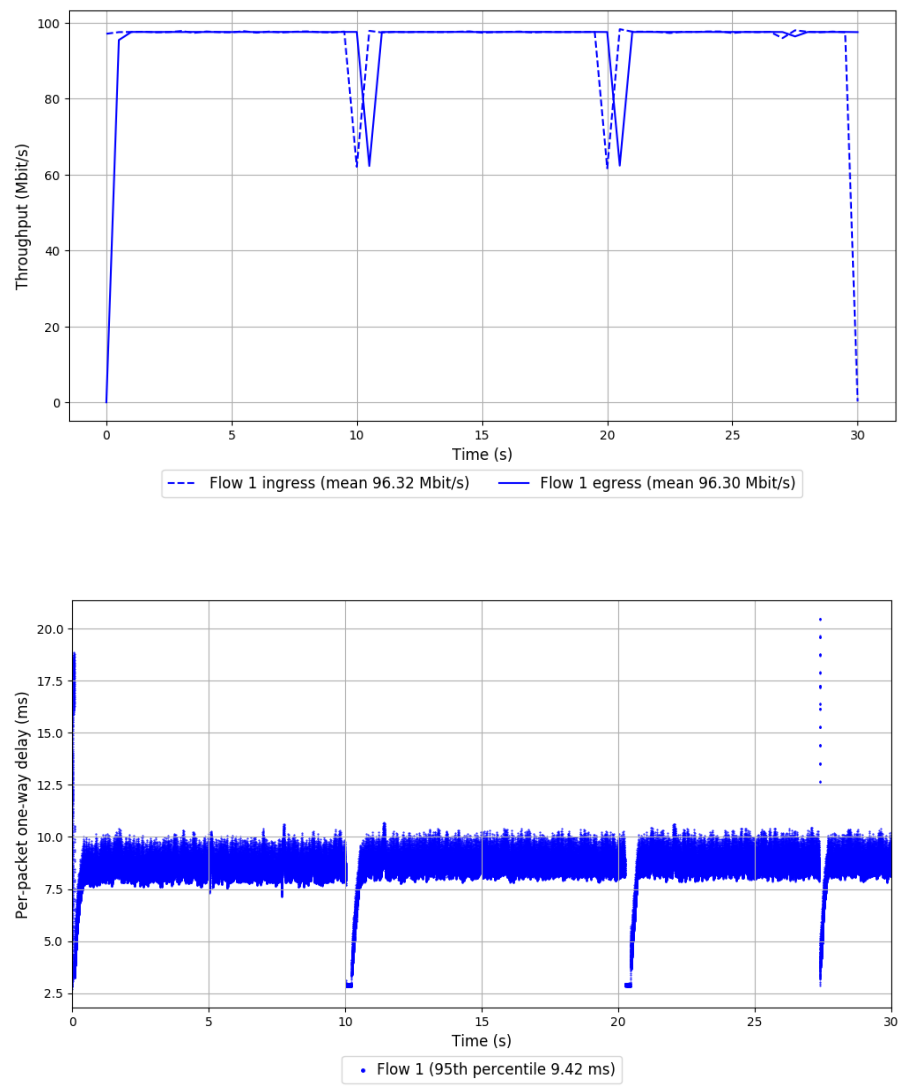


Run 1: Statistics of TCP BBR

Start at: 2019-06-27 13:30:57  
End at: 2019-06-27 13:31:27  
Local clock offset: -5.549 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-06-27 15:17:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 9.421 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 9.421 ms  
Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-06-27 13:55:42

End at: 2019-06-27 13:56:12

Local clock offset: -6.534 ms

Remote clock offset: 0.321 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 10.440 ms

Loss rate: 0.26%

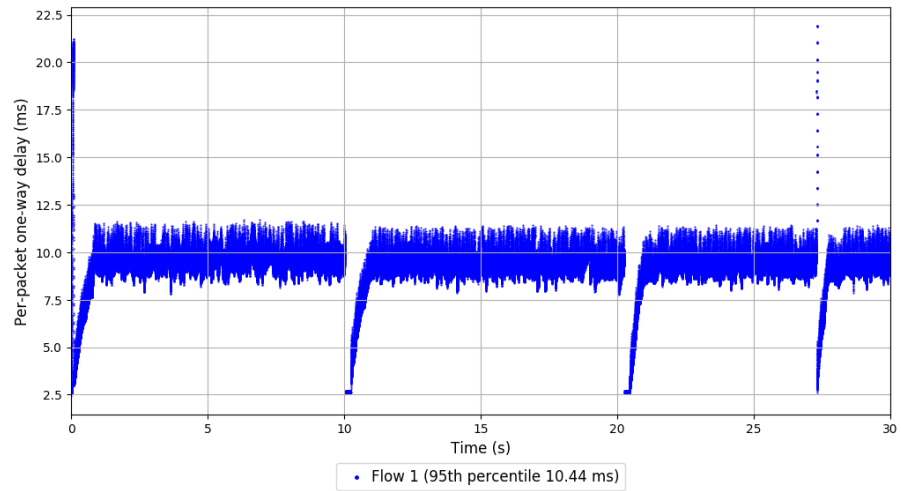
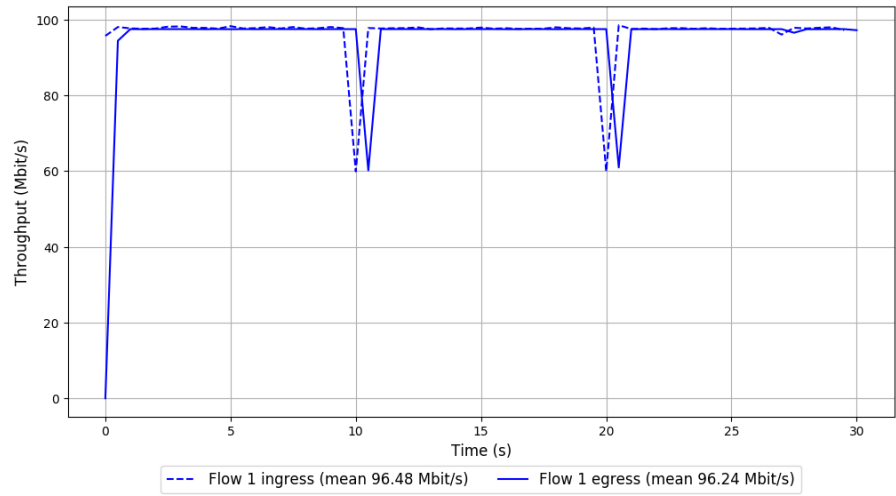
-- Flow 1:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 10.440 ms

Loss rate: 0.26%

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



Run 3: Statistics of TCP BBR

Start at: 2019-06-27 14:20:31

End at: 2019-06-27 14:21:01

Local clock offset: -6.599 ms

Remote clock offset: 0.501 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 10.530 ms

Loss rate: 0.19%

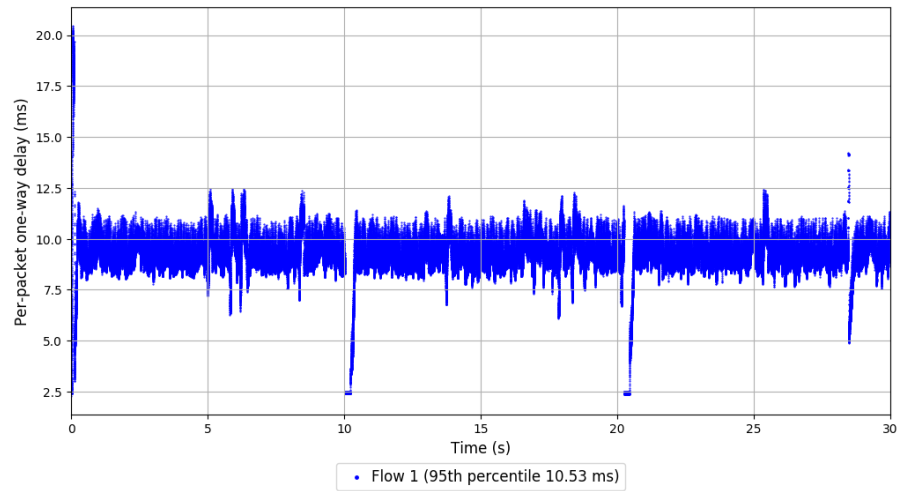
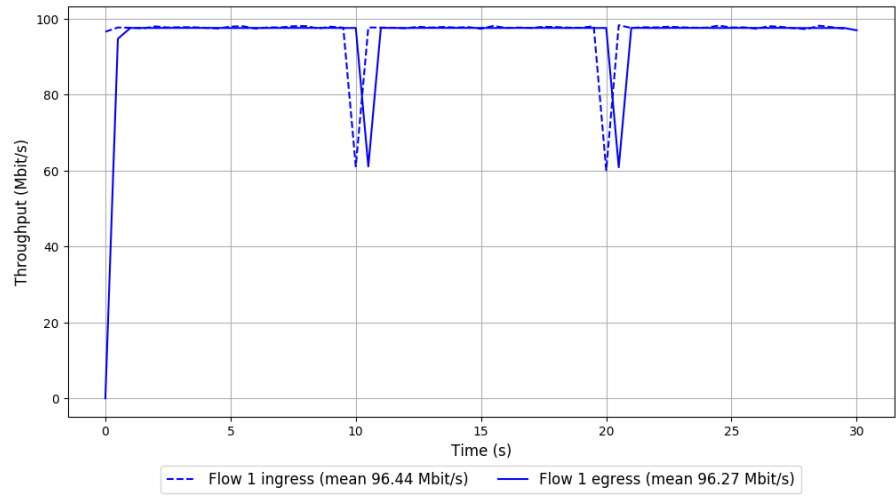
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 10.530 ms

Loss rate: 0.19%

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



Run 4: Statistics of TCP BBR

Start at: 2019-06-27 14:45:18

End at: 2019-06-27 14:45:48

Local clock offset: -6.331 ms

Remote clock offset: 0.826 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 7.702 ms

Loss rate: 0.03%

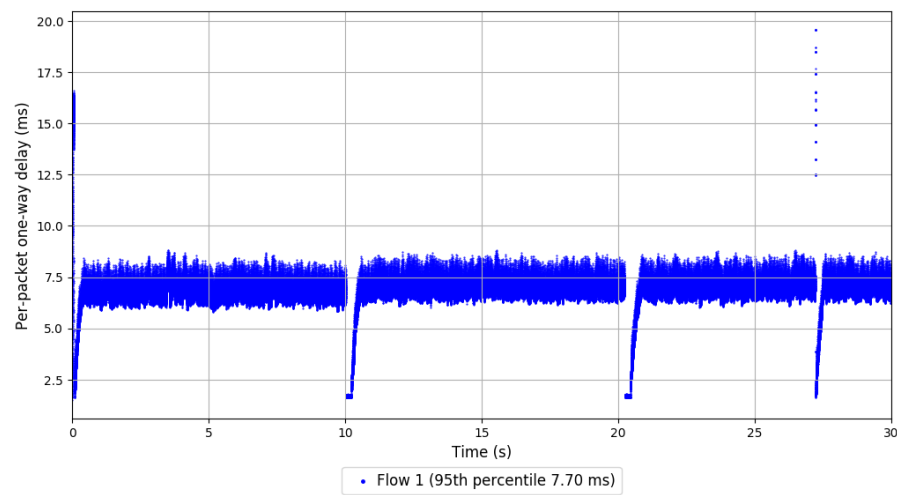
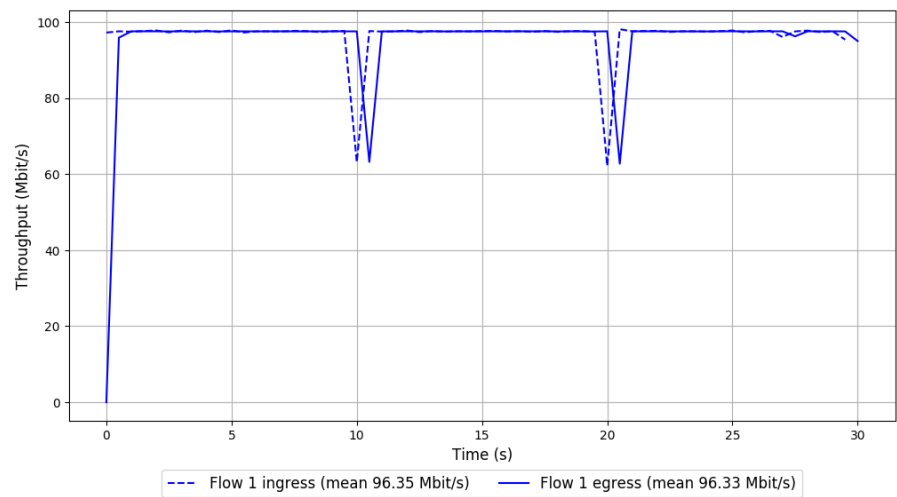
-- Flow 1:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 7.702 ms

Loss rate: 0.03%

Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-06-27 15:10:09

End at: 2019-06-27 15:10:39

Local clock offset: -7.494 ms

Remote clock offset: 0.856 ms

# Below is generated by plot.py at 2019-06-27 15:17:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 10.116 ms

Loss rate: 0.42%

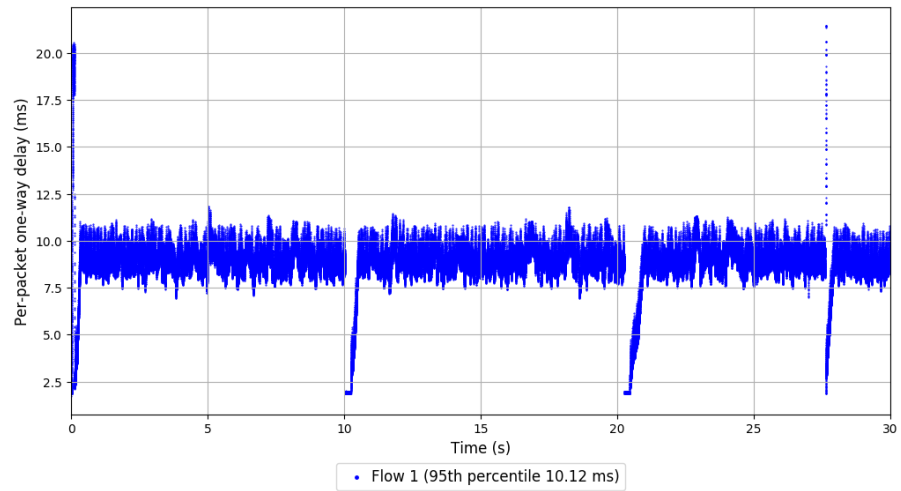
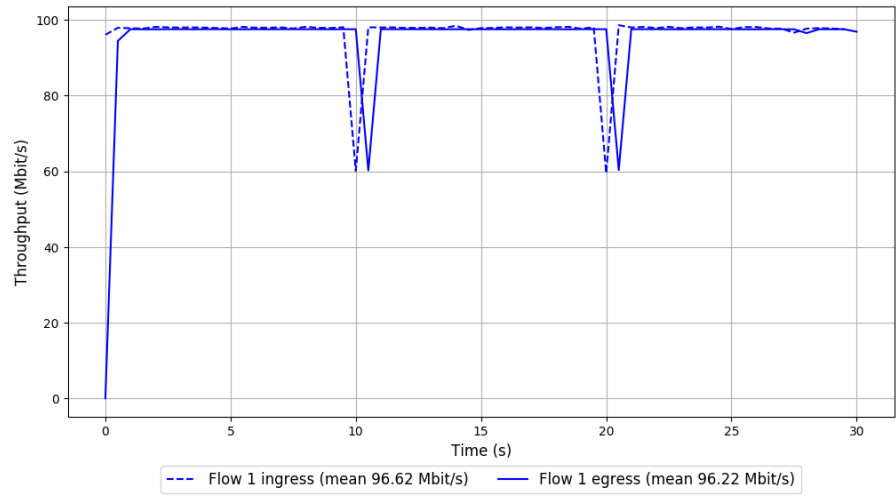
-- Flow 1:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 10.116 ms

Loss rate: 0.42%

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

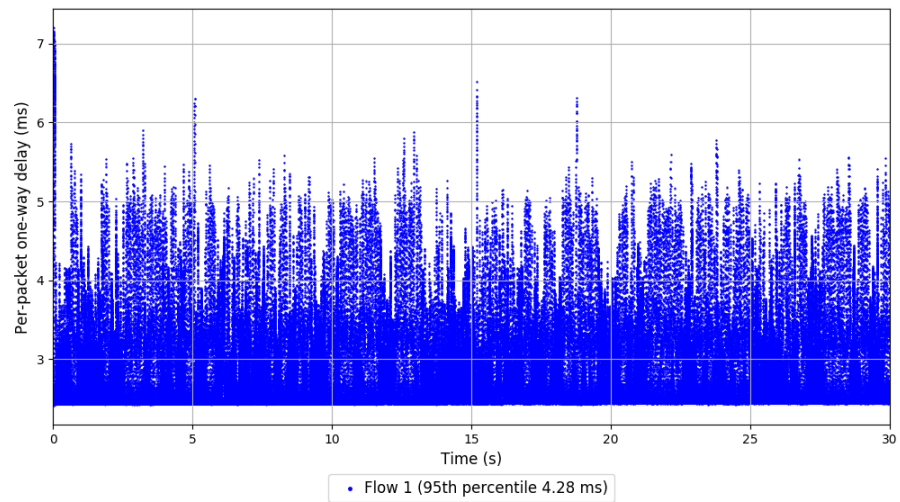
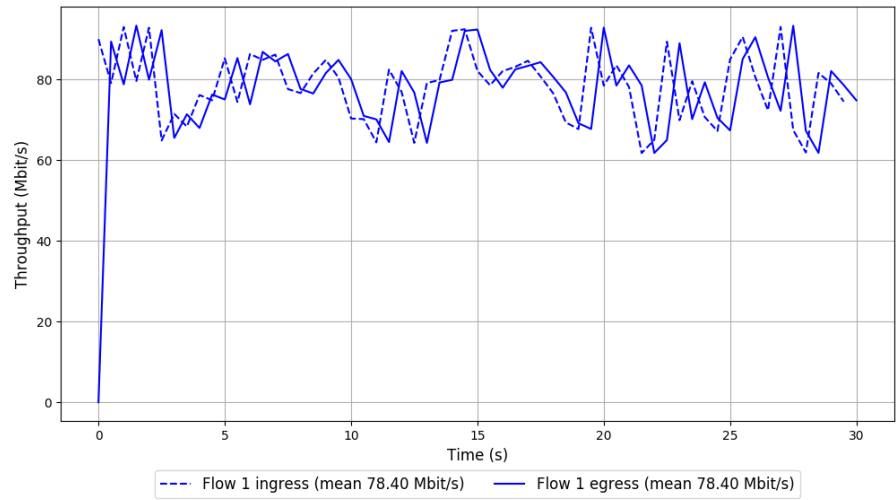


Run 1: Statistics of Copa

Start at: 2019-06-27 13:29:46  
End at: 2019-06-27 13:30:16  
Local clock offset: -5.529 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-06-27 15:17:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.40 Mbit/s  
95th percentile per-packet one-way delay: 4.280 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 78.40 Mbit/s  
95th percentile per-packet one-way delay: 4.280 ms  
Loss rate: 0.01%

### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-06-27 13:54:32

End at: 2019-06-27 13:55:02

Local clock offset: -7.137 ms

Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2019-06-27 15:17:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 4.103 ms

Loss rate: 0.02%

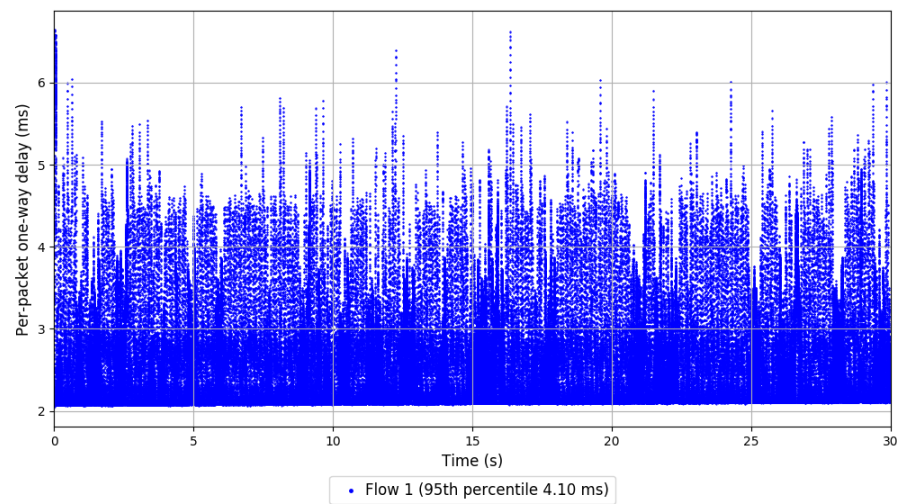
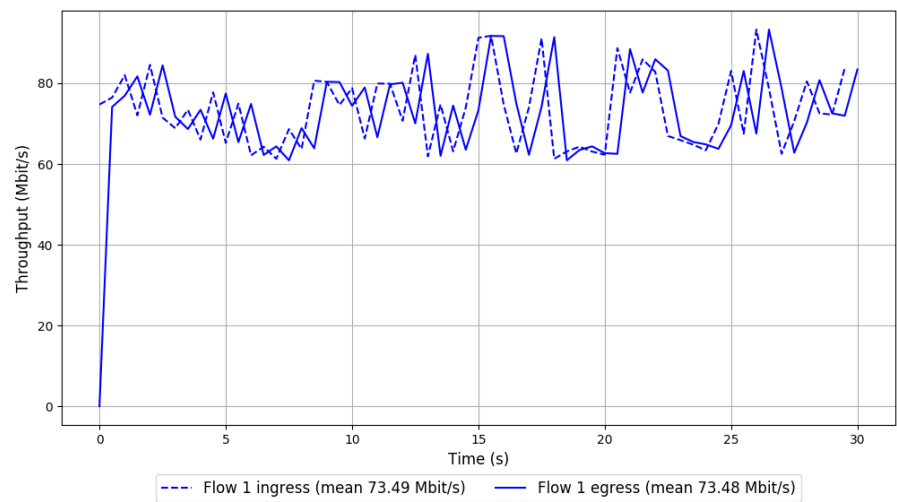
-- Flow 1:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 4.103 ms

Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-06-27 14:19:21

End at: 2019-06-27 14:19:51

Local clock offset: -7.573 ms

Remote clock offset: 0.585 ms

# Below is generated by plot.py at 2019-06-27 15:17:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 3.834 ms

Loss rate: 0.01%

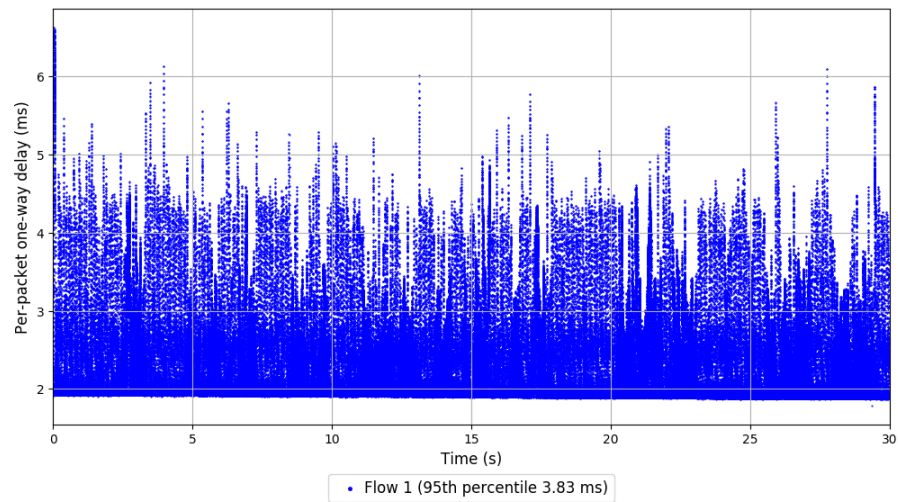
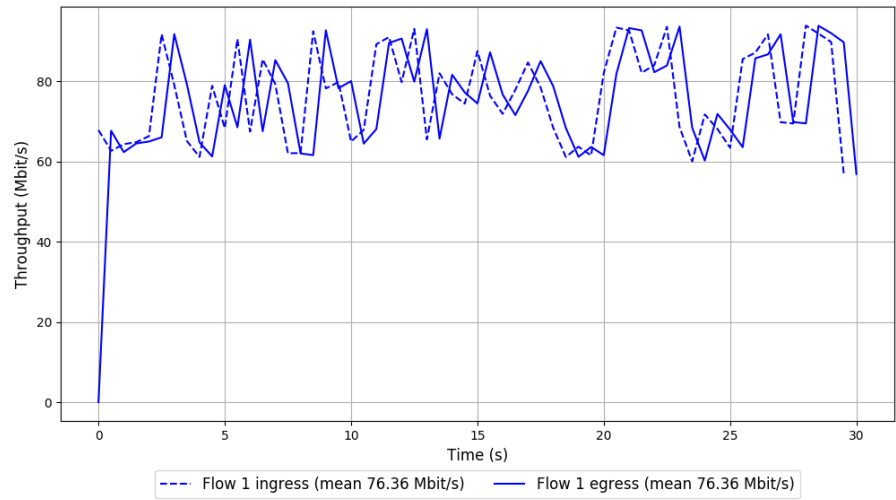
-- Flow 1:

Average throughput: 76.36 Mbit/s

95th percentile per-packet one-way delay: 3.834 ms

Loss rate: 0.01%

### Run 3: Report of Copa — Data Link



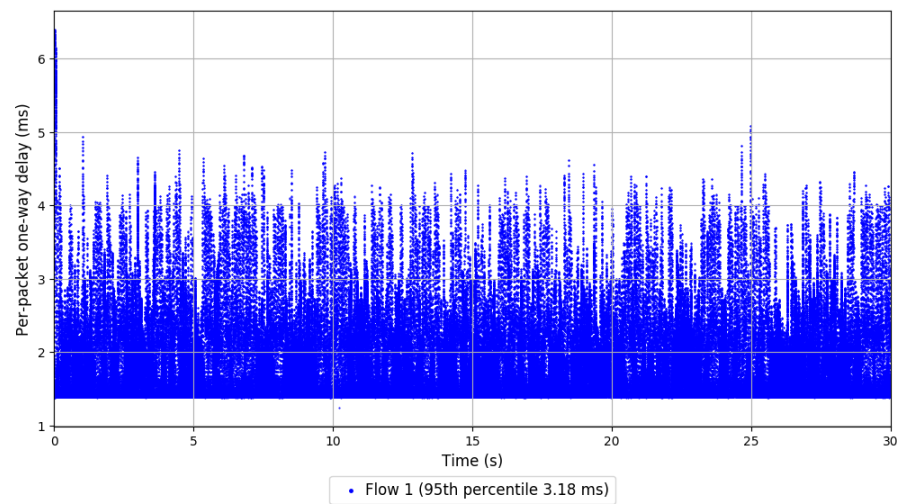
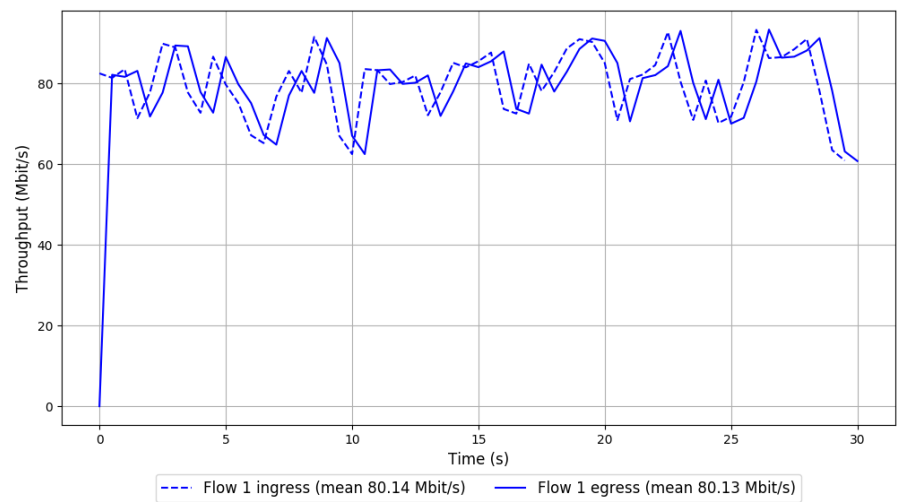


Run 4: Statistics of Copa

Start at: 2019-06-27 14:44:08  
End at: 2019-06-27 14:44:38  
Local clock offset: -6.635 ms  
Remote clock offset: 0.749 ms

# Below is generated by plot.py at 2019-06-27 15:18:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.13 Mbit/s  
95th percentile per-packet one-way delay: 3.182 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 80.13 Mbit/s  
95th percentile per-packet one-way delay: 3.182 ms  
Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-06-27 15:08:58

End at: 2019-06-27 15:09:28

Local clock offset: -7.317 ms

Remote clock offset: 0.803 ms

# Below is generated by plot.py at 2019-06-27 15:18:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 3.552 ms

Loss rate: 0.01%

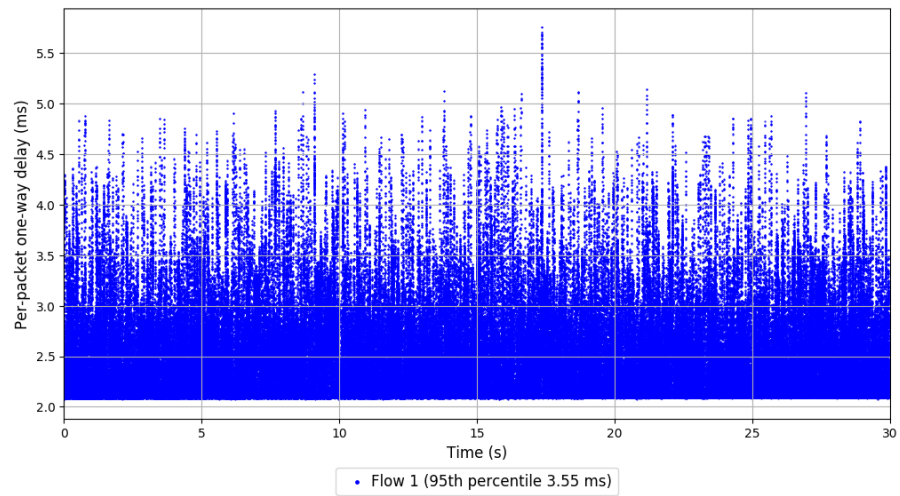
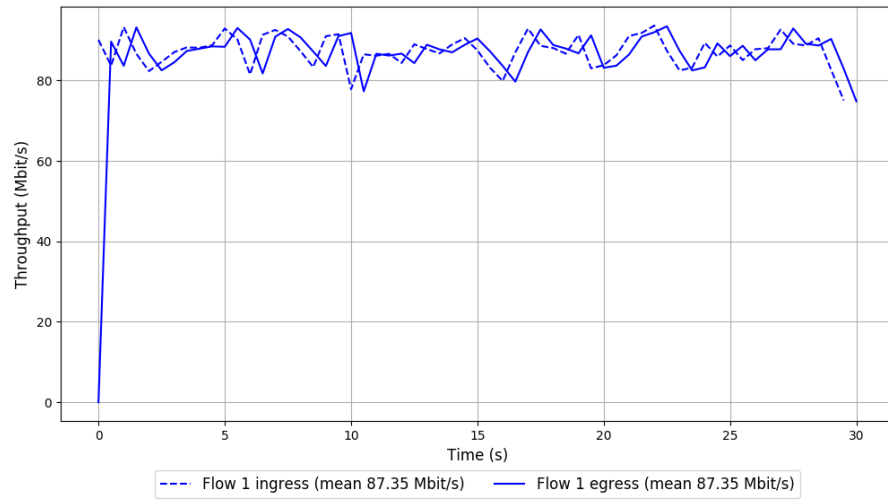
-- Flow 1:

Average throughput: 87.35 Mbit/s

95th percentile per-packet one-way delay: 3.552 ms

Loss rate: 0.01%

## Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-06-27 13:33:12

End at: 2019-06-27 13:33:42

Local clock offset: -5.535 ms

Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-06-27 15:18:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 9.612 ms

Loss rate: 0.06%

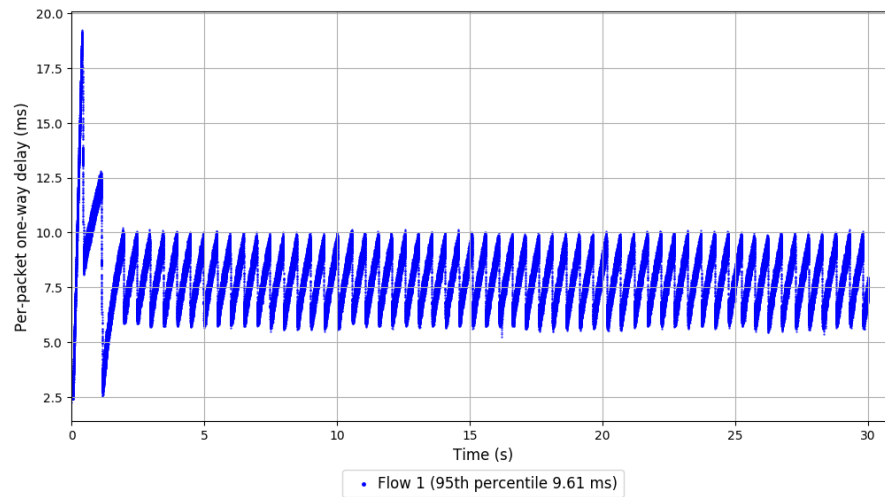
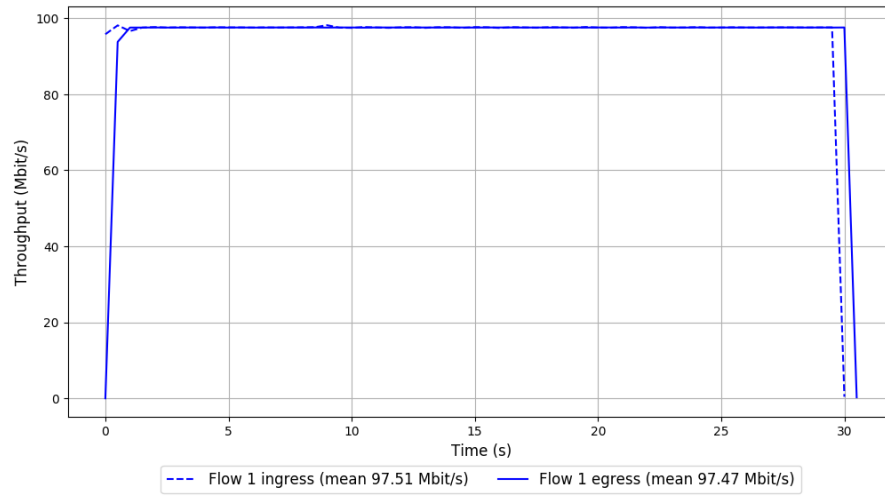
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 9.612 ms

Loss rate: 0.06%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-06-27 13:57:58

End at: 2019-06-27 13:58:28

Local clock offset: -6.618 ms

Remote clock offset: 0.302 ms

# Below is generated by plot.py at 2019-06-27 15:18:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.403 ms

Loss rate: 0.05%

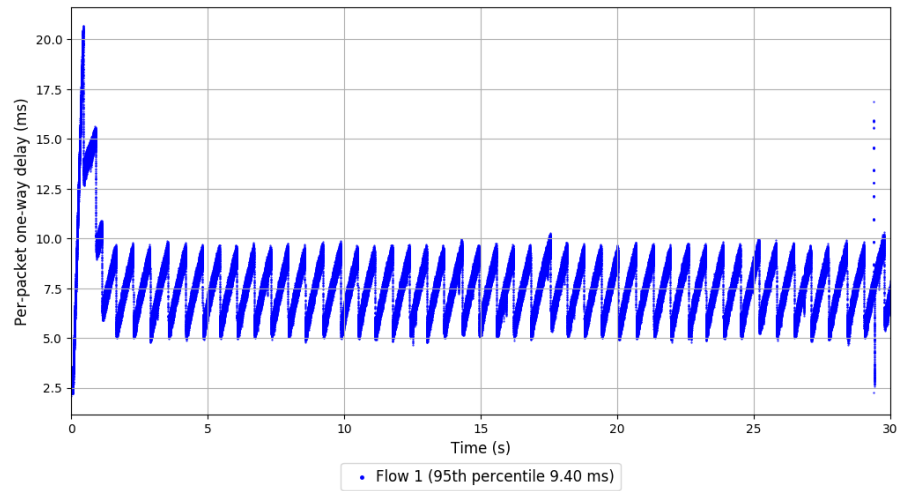
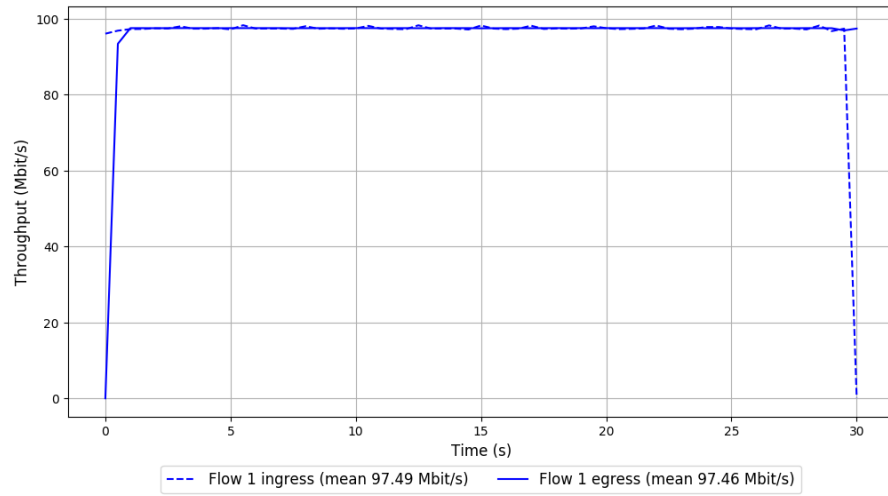
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.403 ms

Loss rate: 0.05%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-06-27 14:22:47

End at: 2019-06-27 14:23:17

Local clock offset: -6.652 ms

Remote clock offset: 0.546 ms

# Below is generated by plot.py at 2019-06-27 15:18:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.757 ms

Loss rate: 0.04%

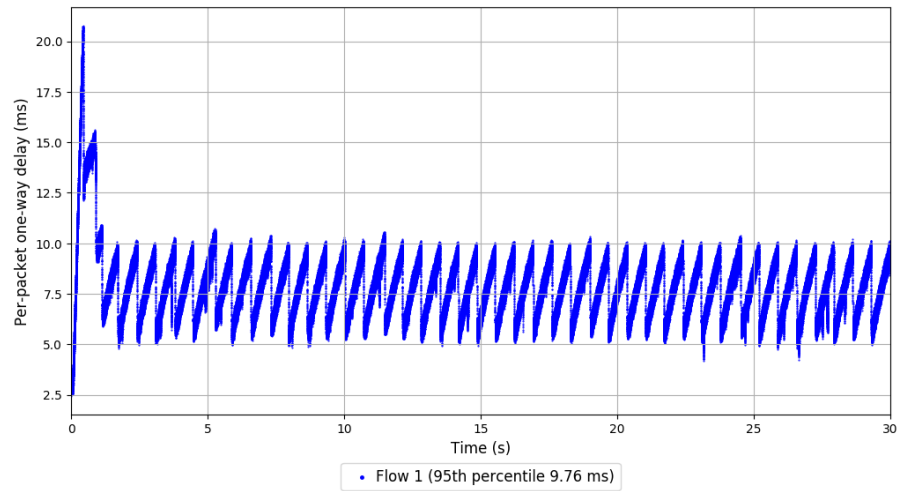
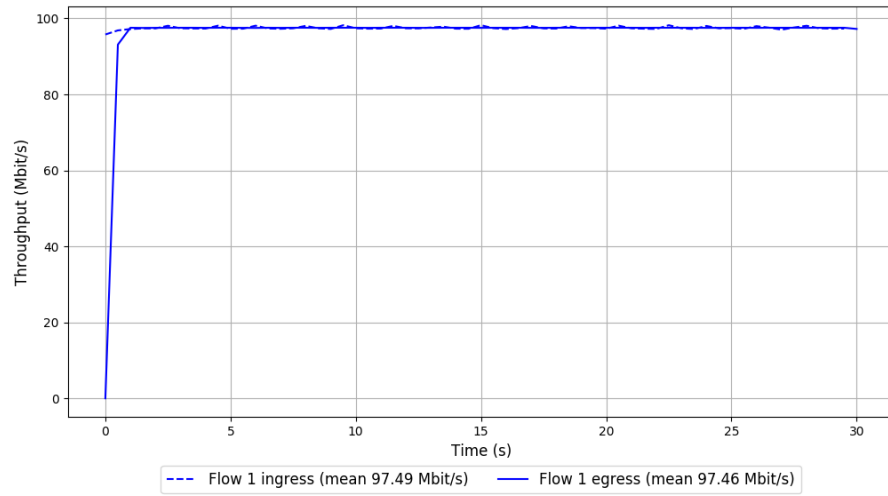
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 9.757 ms

Loss rate: 0.04%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-06-27 14:47:34

End at: 2019-06-27 14:48:04

Local clock offset: -6.517 ms

Remote clock offset: 0.798 ms

# Below is generated by plot.py at 2019-06-27 15:18:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 8.804 ms

Loss rate: 0.06%

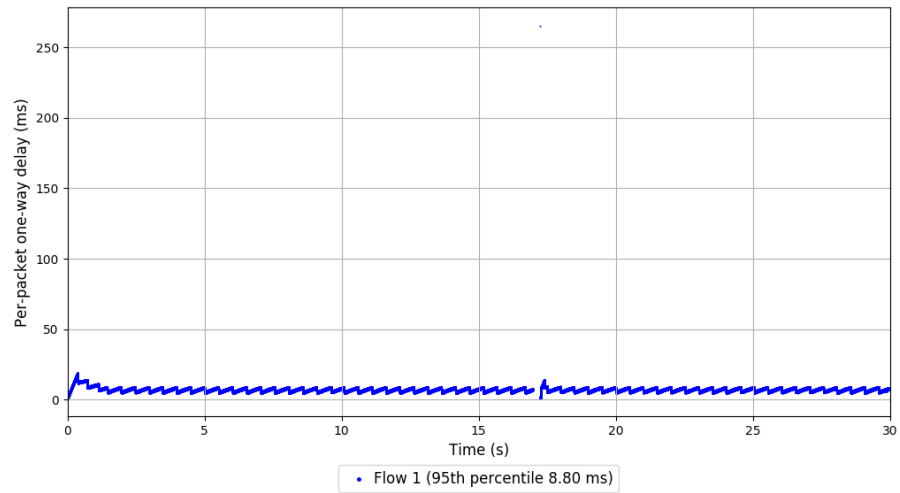
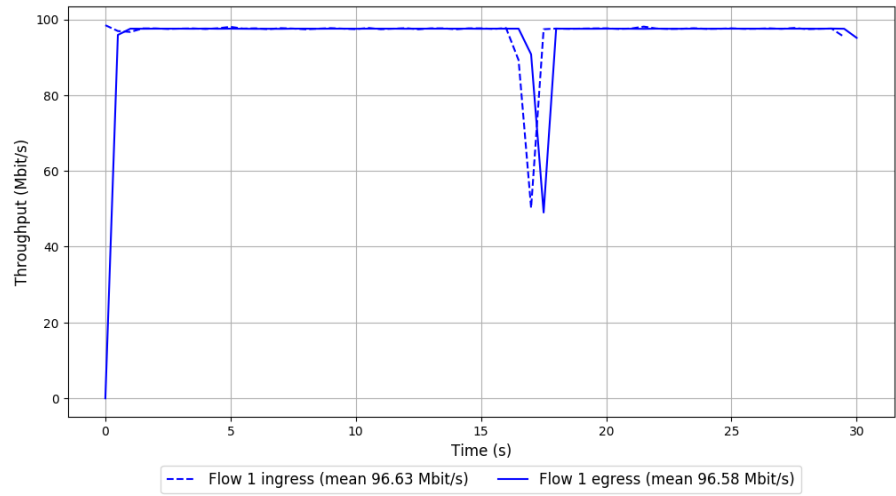
-- Flow 1:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 8.804 ms

Loss rate: 0.06%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-06-27 15:12:25

End at: 2019-06-27 15:12:55

Local clock offset: -7.311 ms

Remote clock offset: 0.895 ms

# Below is generated by plot.py at 2019-06-27 15:18:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 8.760 ms

Loss rate: 0.05%

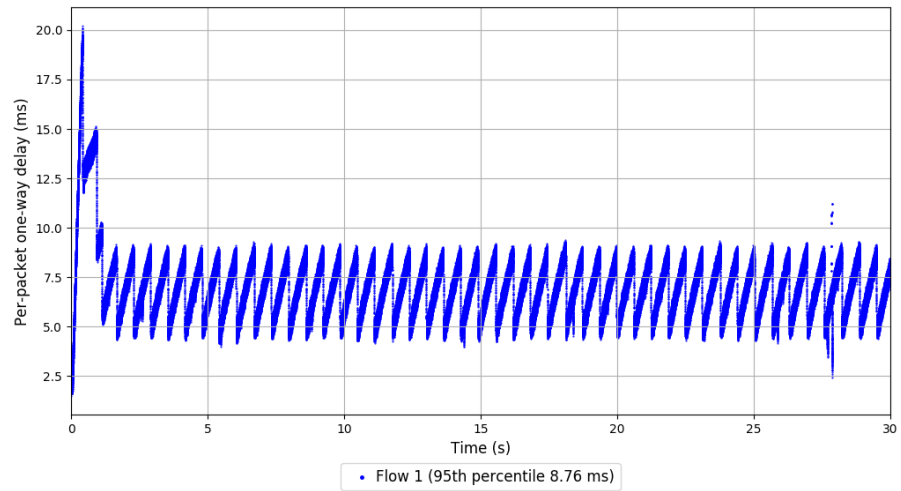
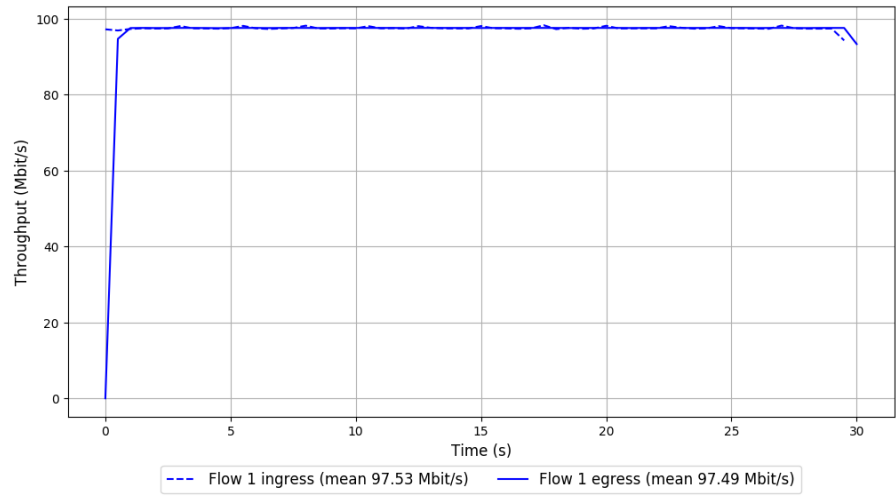
-- Flow 1:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 8.760 ms

Loss rate: 0.05%

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

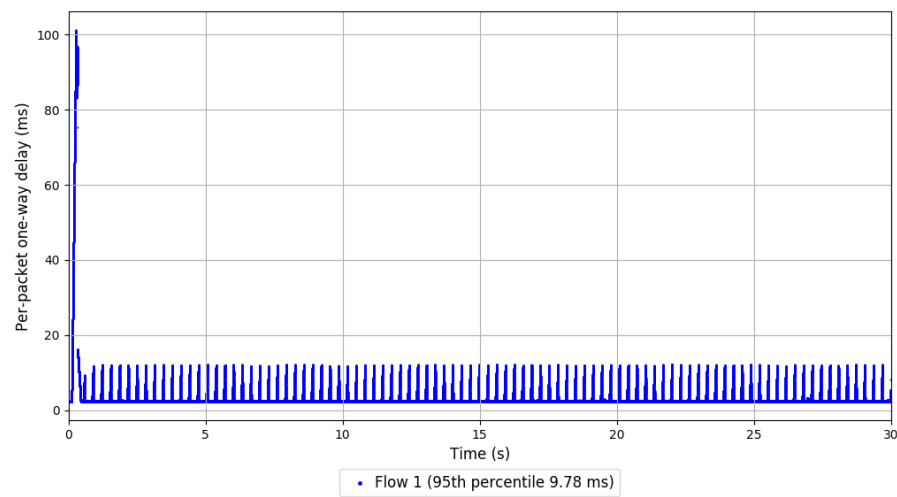
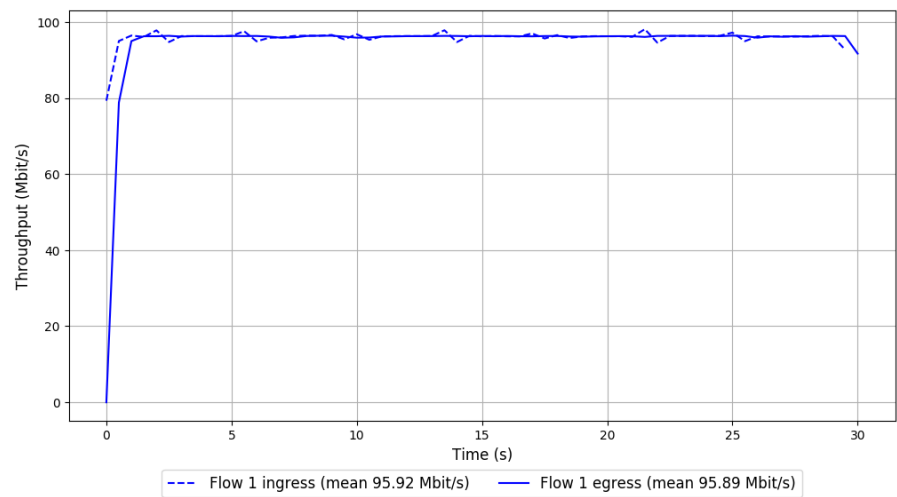


Run 1: Statistics of FillP

Start at: 2019-06-27 13:19:43  
End at: 2019-06-27 13:20:13  
Local clock offset: -5.539 ms  
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2019-06-27 15:19:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.89 Mbit/s  
95th percentile per-packet one-way delay: 9.777 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 95.89 Mbit/s  
95th percentile per-packet one-way delay: 9.777 ms  
Loss rate: 0.03%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-06-27 13:44:32

End at: 2019-06-27 13:45:02

Local clock offset: -5.534 ms

Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2019-06-27 15:19:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 10.296 ms

Loss rate: 0.02%

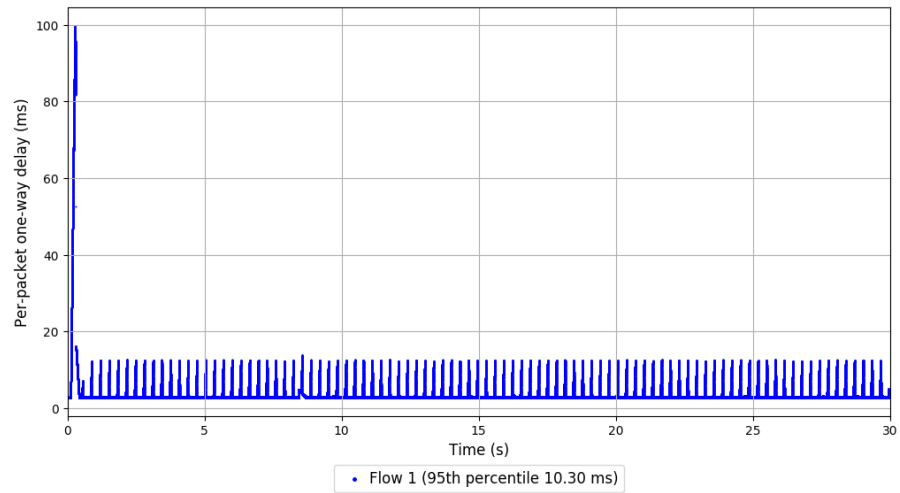
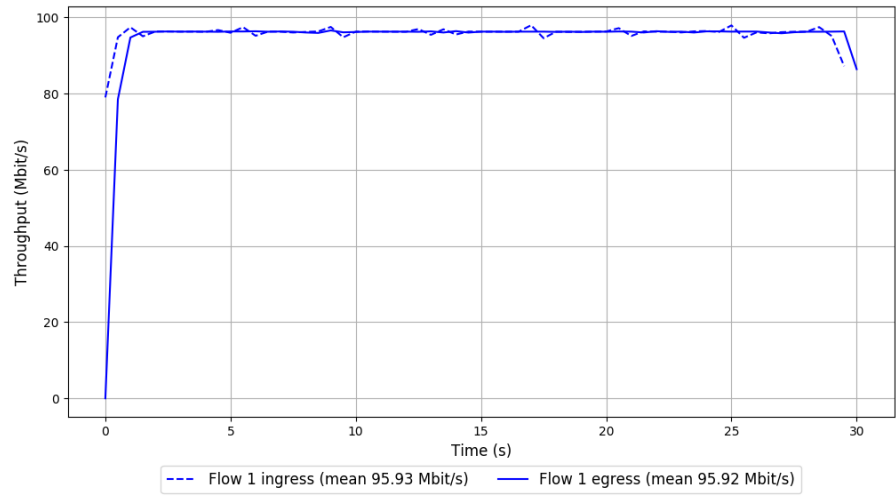
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 10.296 ms

Loss rate: 0.02%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-06-27 14:09:18

End at: 2019-06-27 14:09:48

Local clock offset: -7.483 ms

Remote clock offset: 0.485 ms

# Below is generated by plot.py at 2019-06-27 15:19:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 9.103 ms

Loss rate: 0.02%

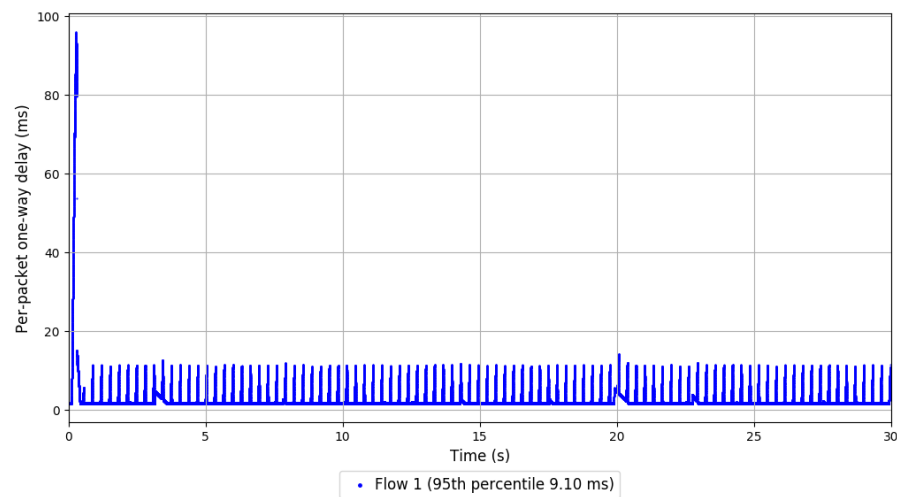
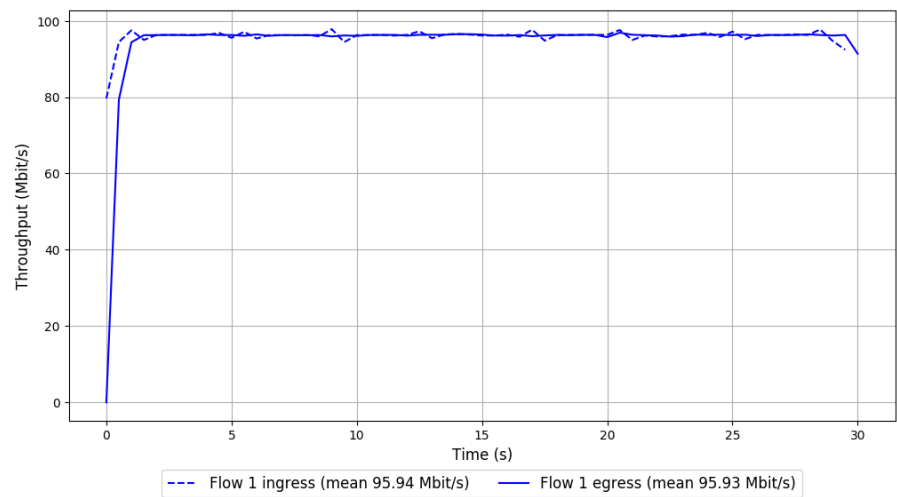
-- Flow 1:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 9.103 ms

Loss rate: 0.02%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-06-27 14:34:08

End at: 2019-06-27 14:34:38

Local clock offset: -5.779 ms

Remote clock offset: 0.634 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 9.942 ms

Loss rate: 0.03%

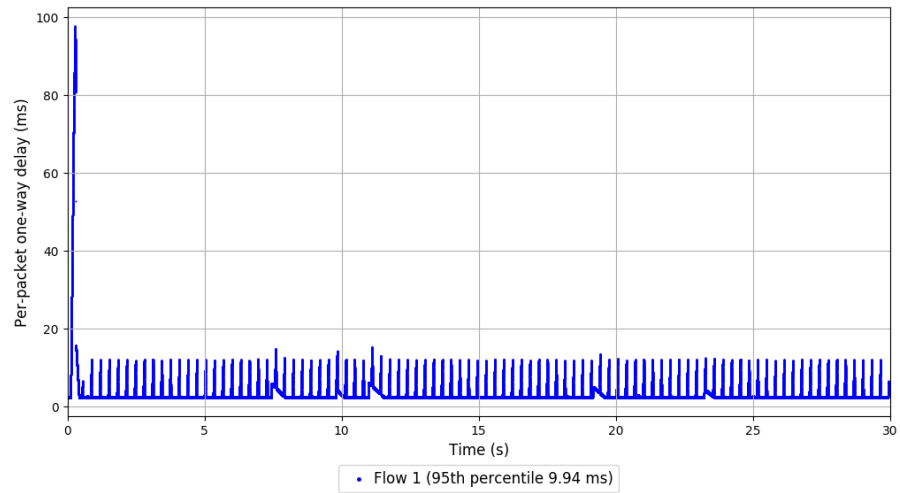
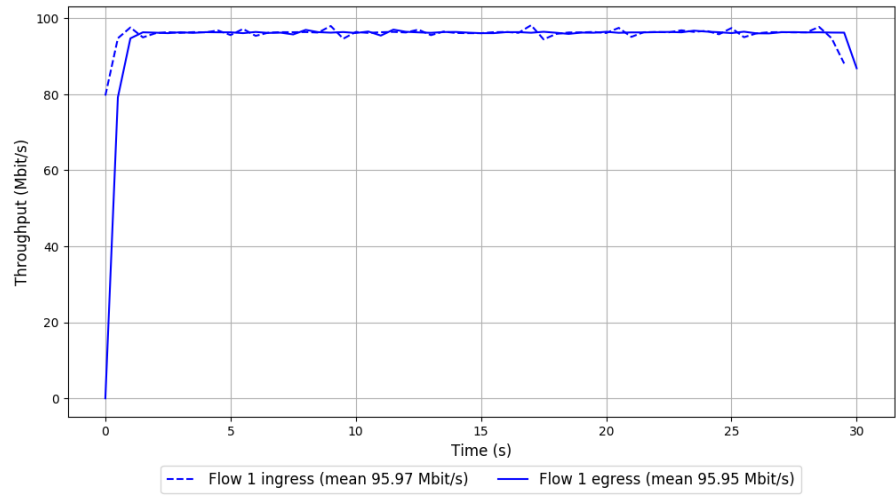
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 9.942 ms

Loss rate: 0.03%

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



Run 5: Statistics of FillP

Start at: 2019-06-27 14:58:54

End at: 2019-06-27 14:59:24

Local clock offset: -7.306 ms

Remote clock offset: 0.718 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.418 ms

Loss rate: 0.04%

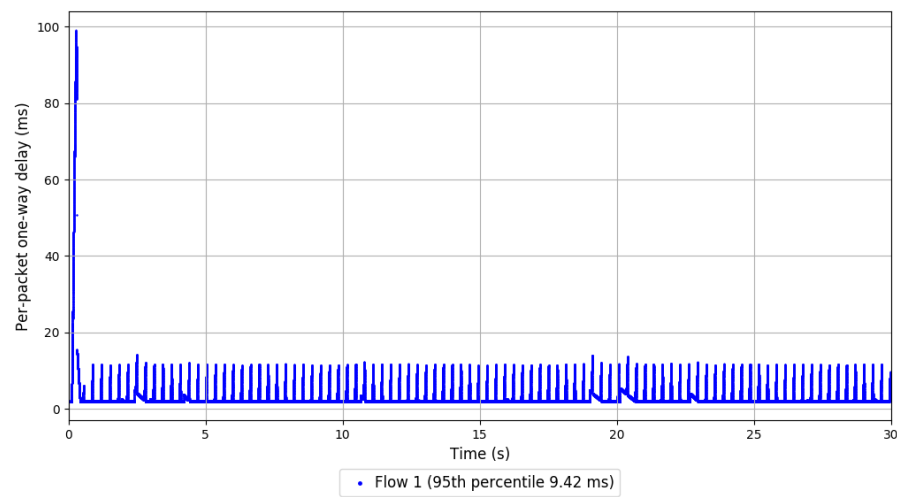
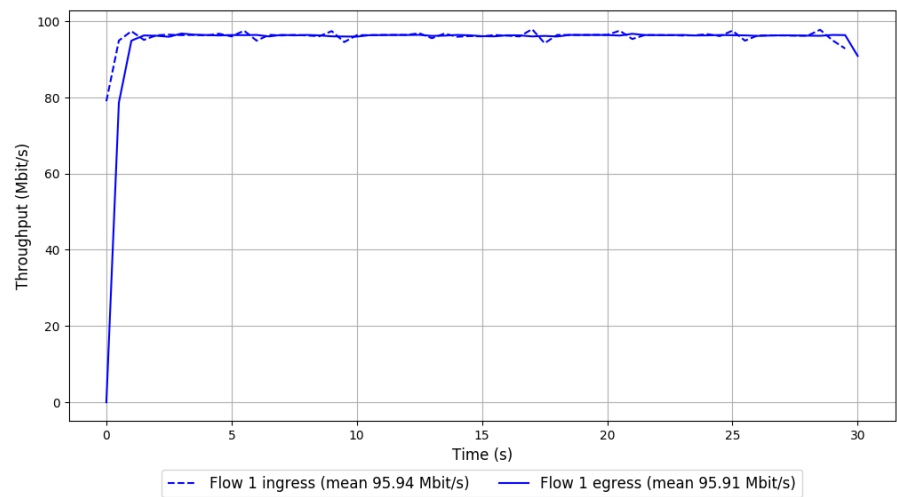
-- Flow 1:

Average throughput: 95.91 Mbit/s

95th percentile per-packet one-way delay: 9.418 ms

Loss rate: 0.04%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-06-27 13:18:36

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

Local clock offset: -5.762 ms

Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2019-06-27 15:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 6.383 ms

Loss rate: 0.01%

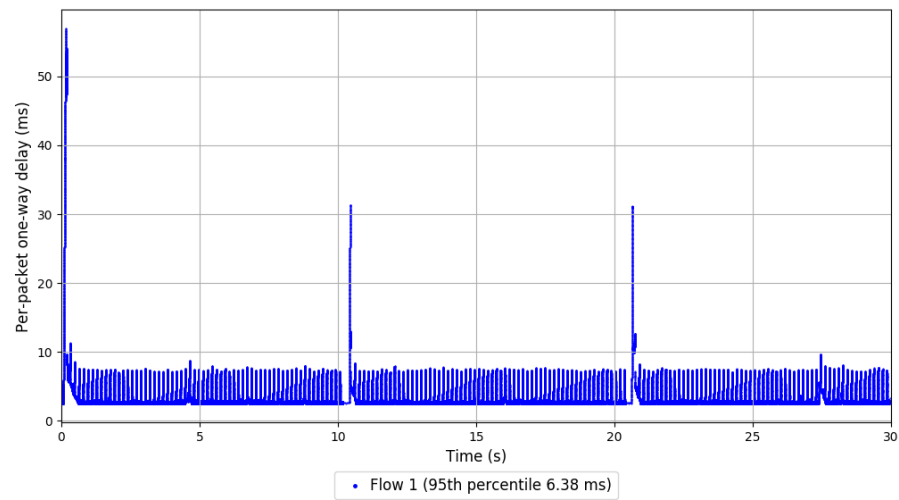
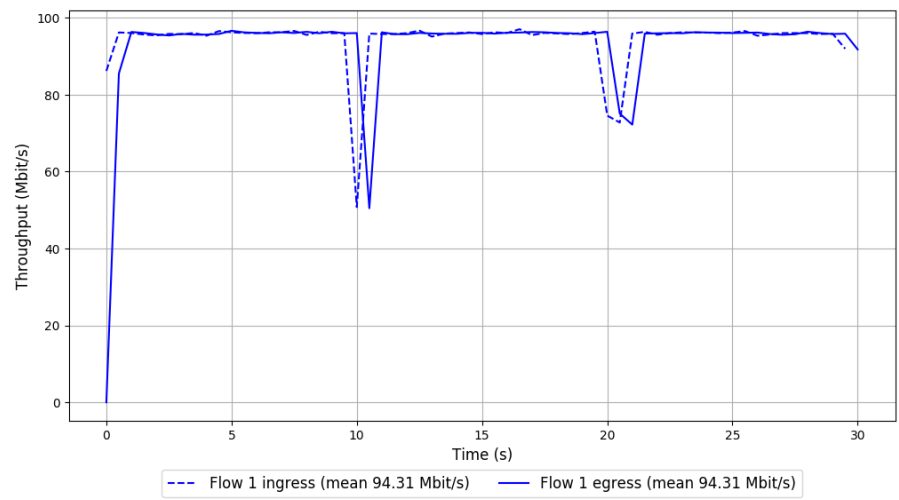
-- Flow 1:

Average throughput: 94.31 Mbit/s

95th percentile per-packet one-way delay: 6.383 ms

Loss rate: 0.01%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-06-27 13:43:26

End at: 2019-06-27 13:43:56

Local clock offset: -6.369 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-06-27 15:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 5.515 ms

Loss rate: 0.00%

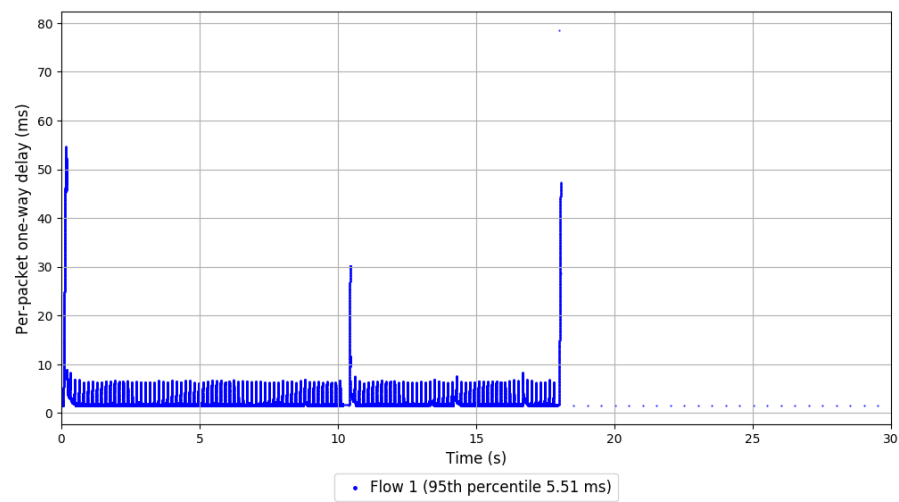
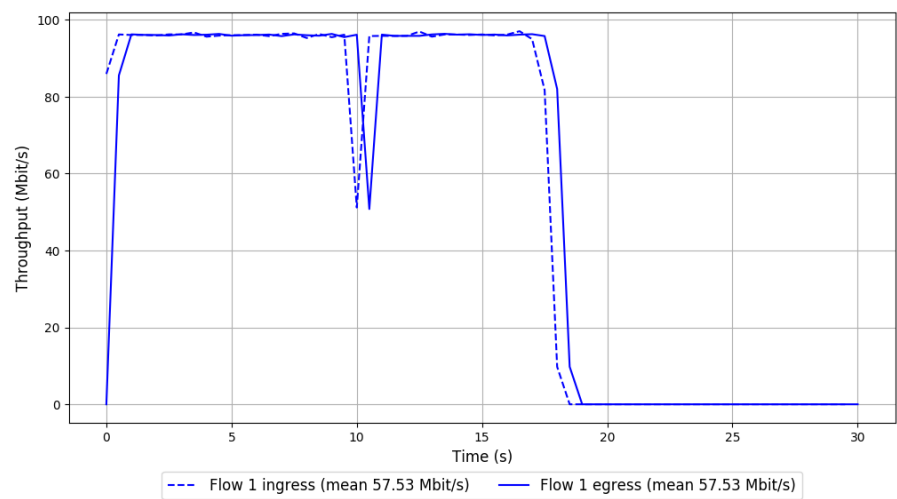
-- Flow 1:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 5.515 ms

Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-06-27 14:08:11

End at: 2019-06-27 14:08:41

Local clock offset: -7.483 ms

Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2019-06-27 15:20:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 5.477 ms

Loss rate: 0.01%

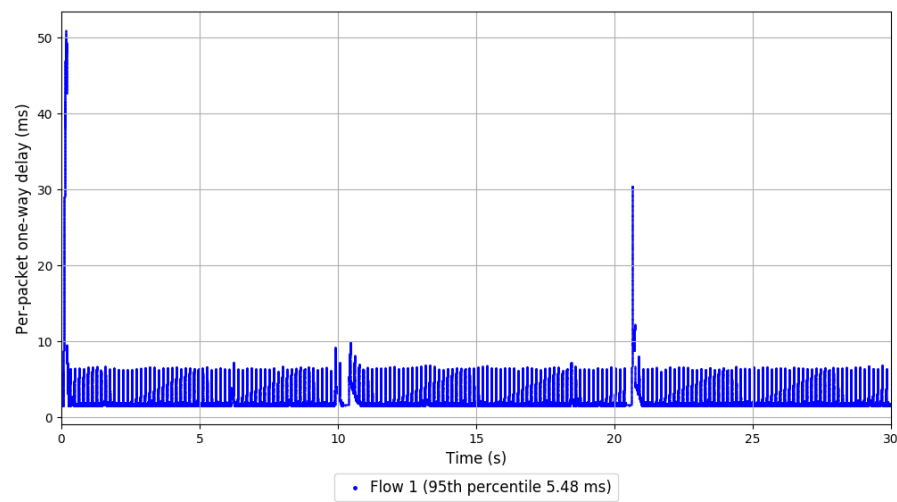
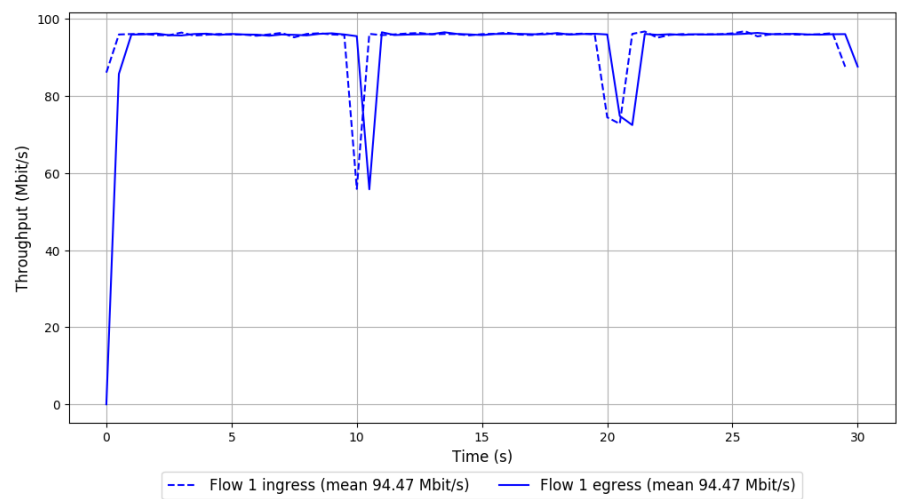
-- Flow 1:

Average throughput: 94.47 Mbit/s

95th percentile per-packet one-way delay: 5.477 ms

Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-06-27 14:33:01

End at: 2019-06-27 14:33:31

Local clock offset: -6.094 ms

Remote clock offset: 0.707 ms

# Below is generated by plot.py at 2019-06-27 15:20:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 5.959 ms

Loss rate: 0.02%

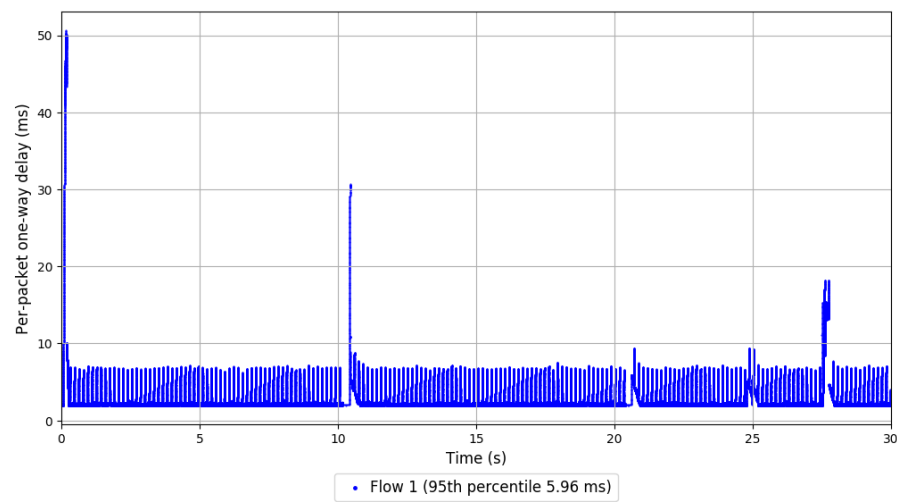
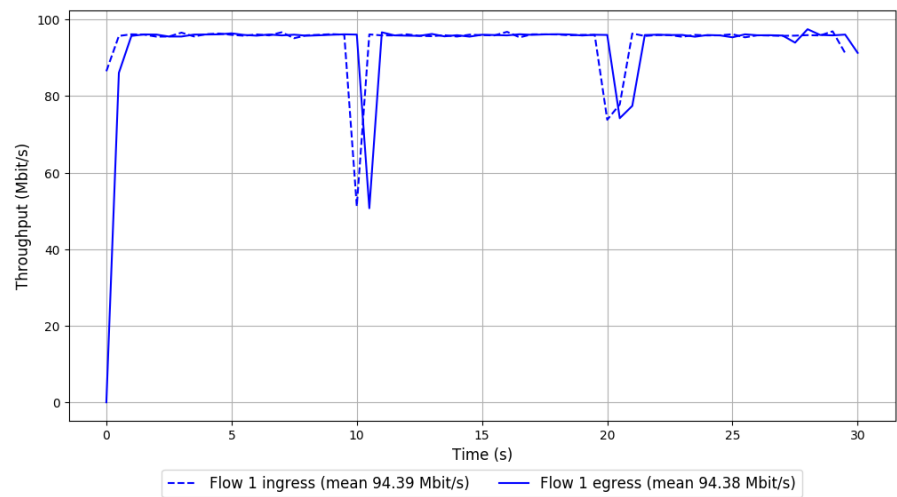
-- Flow 1:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 5.959 ms

Loss rate: 0.02%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-06-27 14:57:47

End at: 2019-06-27 14:58:17

Local clock offset: -7.181 ms

Remote clock offset: 0.757 ms

# Below is generated by plot.py at 2019-06-27 15:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 5.369 ms

Loss rate: 0.01%

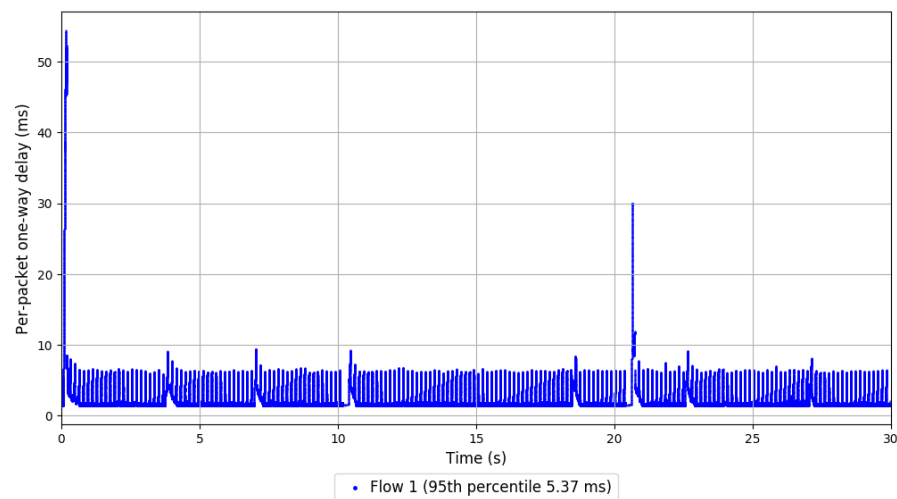
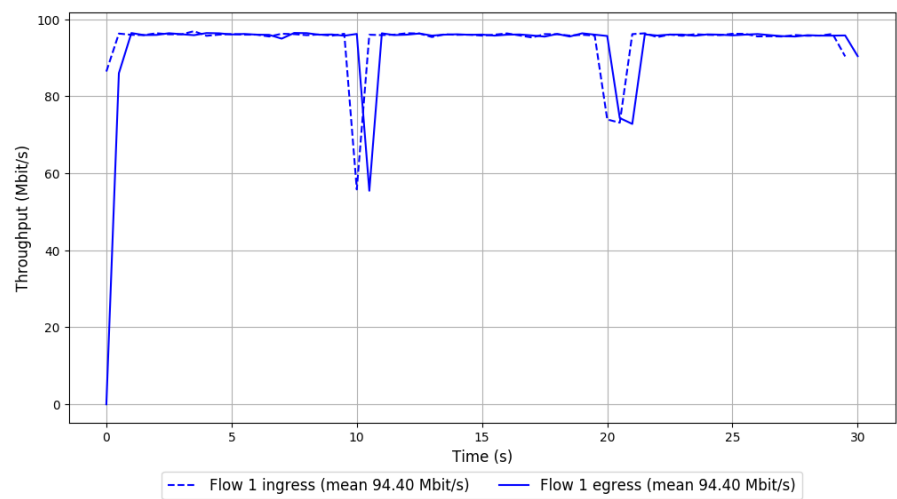
-- Flow 1:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 5.369 ms

Loss rate: 0.01%

Run 5: Report of FillP-Sheep — Data Link

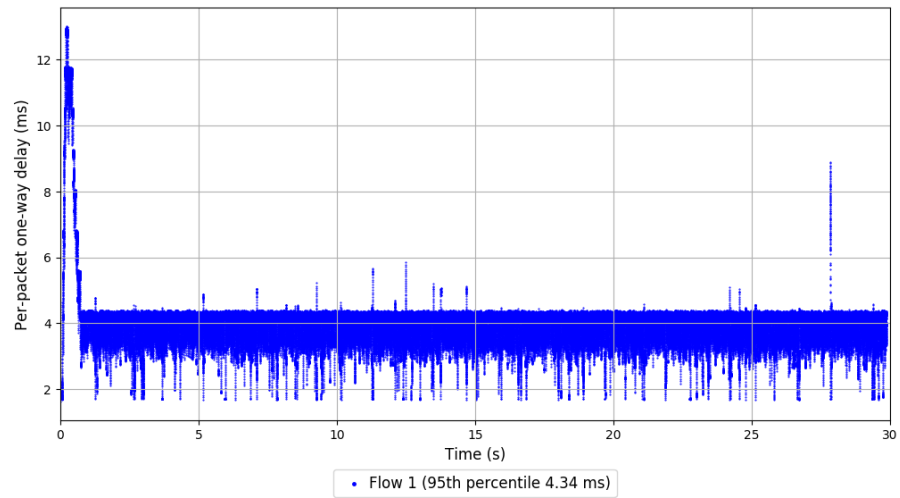
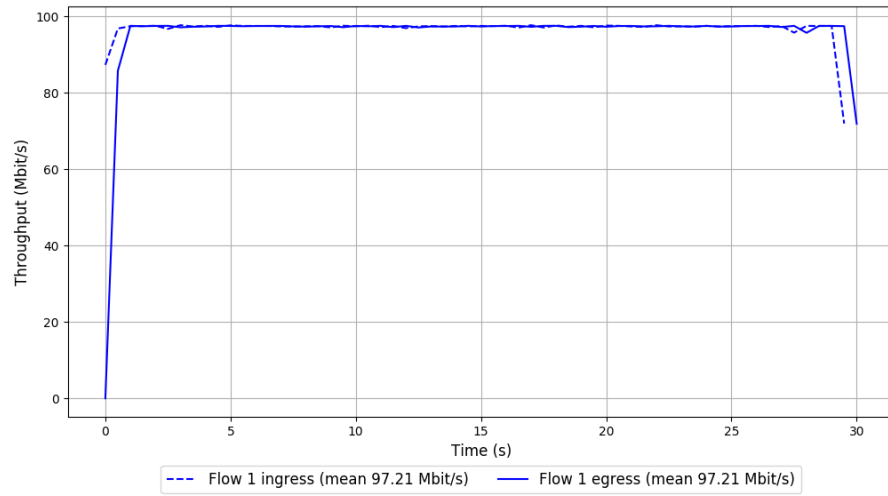


Run 1: Statistics of Indigo

Start at: 2019-06-27 13:16:15  
End at: 2019-06-27 13:16:45  
Local clock offset: -6.311 ms  
Remote clock offset: -0.345 ms

# Below is generated by plot.py at 2019-06-27 15:20:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.21 Mbit/s  
95th percentile per-packet one-way delay: 4.336 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 97.21 Mbit/s  
95th percentile per-packet one-way delay: 4.336 ms  
Loss rate: 0.02%

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



Run 2: Statistics of Indigo

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

End at: 2019-06-27 13:41:36

Local clock offset: -6.61 ms

Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-06-27 15:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 4.313 ms

Loss rate: 0.01%

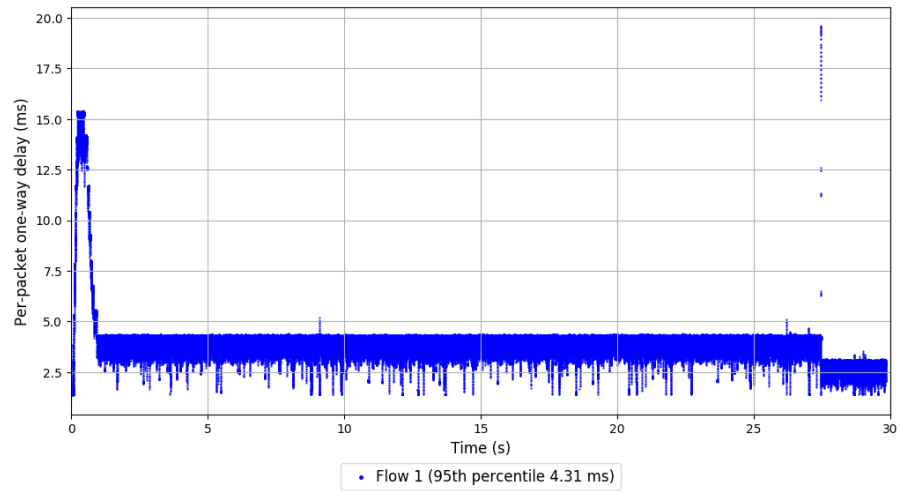
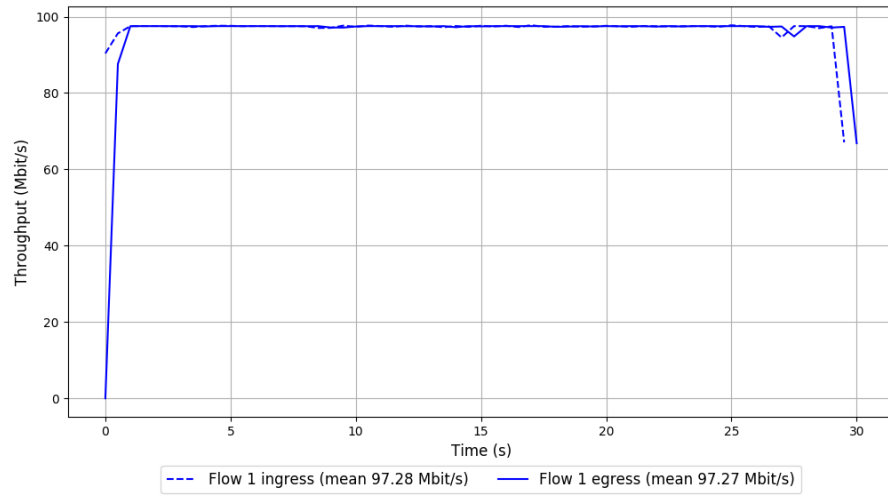
-- Flow 1:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 4.313 ms

Loss rate: 0.01%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-06-27 14:05:51

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

Local clock offset: -7.639 ms

Remote clock offset: 0.417 ms

# Below is generated by plot.py at 2019-06-27 15:20:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 4.081 ms

Loss rate: 0.02%

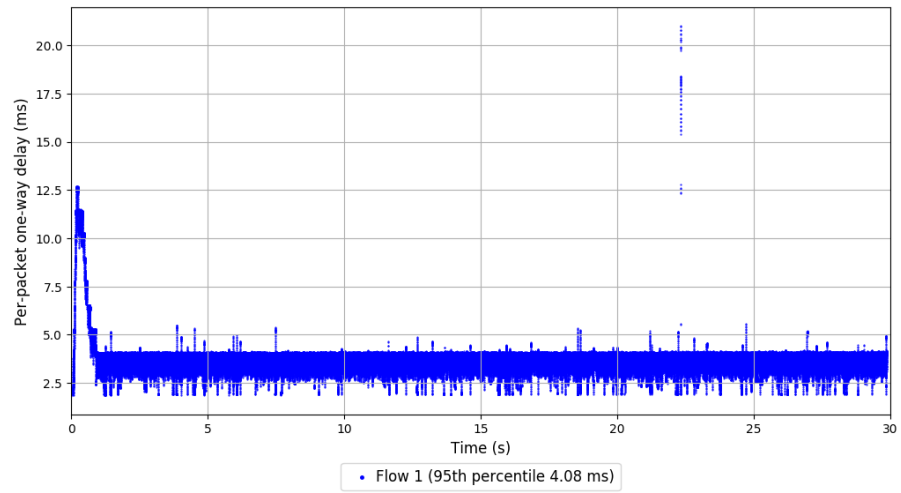
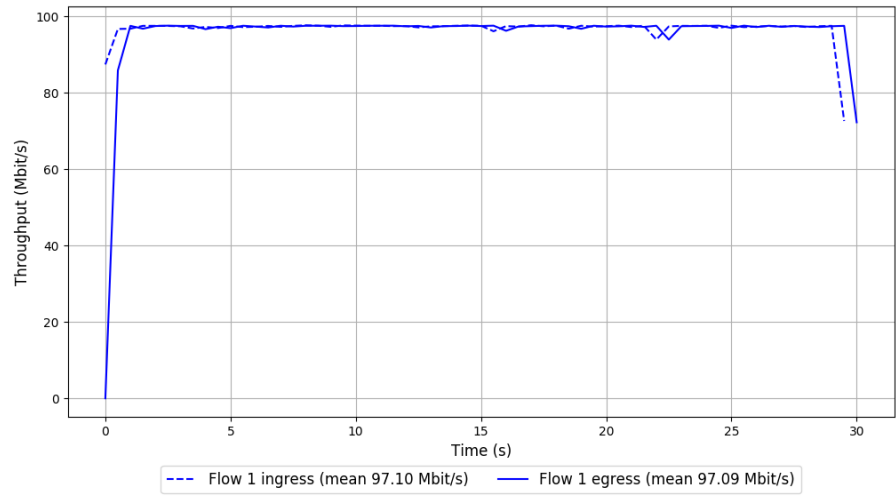
-- Flow 1:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 4.081 ms

Loss rate: 0.02%

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





Run 4: Statistics of Indigo

Start at: 2019-06-27 14:30:40

End at: 2019-06-27 14:31:10

Local clock offset: -6.644 ms

Remote clock offset: 0.67 ms

# Below is generated by plot.py at 2019-06-27 15:21:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.69 Mbit/s

95th percentile per-packet one-way delay: 3.062 ms

Loss rate: 0.01%

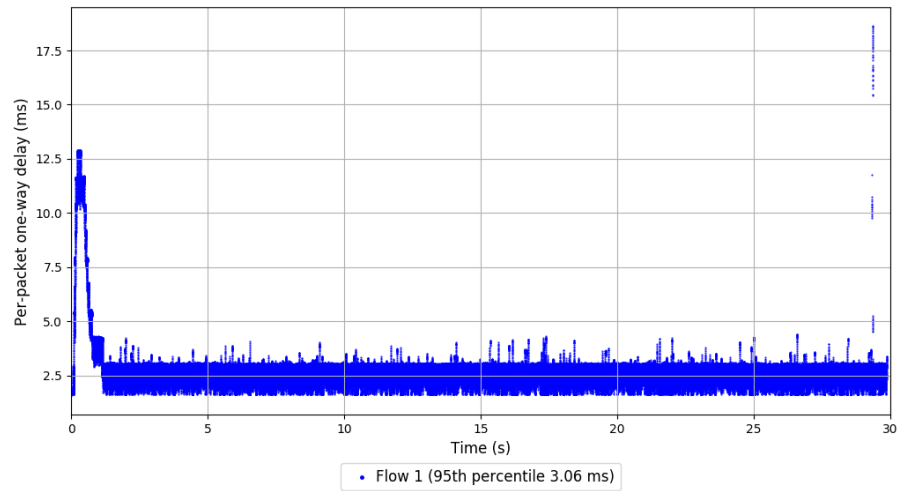
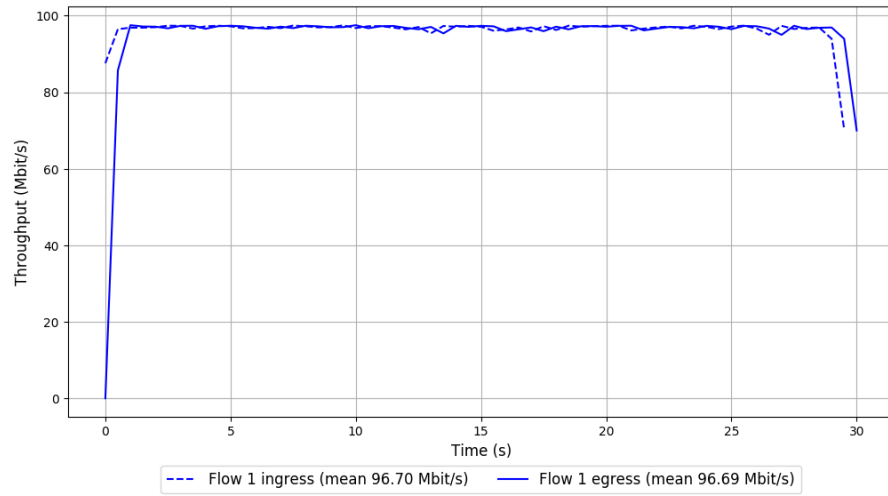
-- Flow 1:

Average throughput: 96.69 Mbit/s

95th percentile per-packet one-way delay: 3.062 ms

Loss rate: 0.01%

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



Run 5: Statistics of Indigo

Start at: 2019-06-27 14:55:26

End at: 2019-06-27 14:55:56

Local clock offset: -7.127 ms

Remote clock offset: 0.76 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 4.104 ms

Loss rate: 0.02%

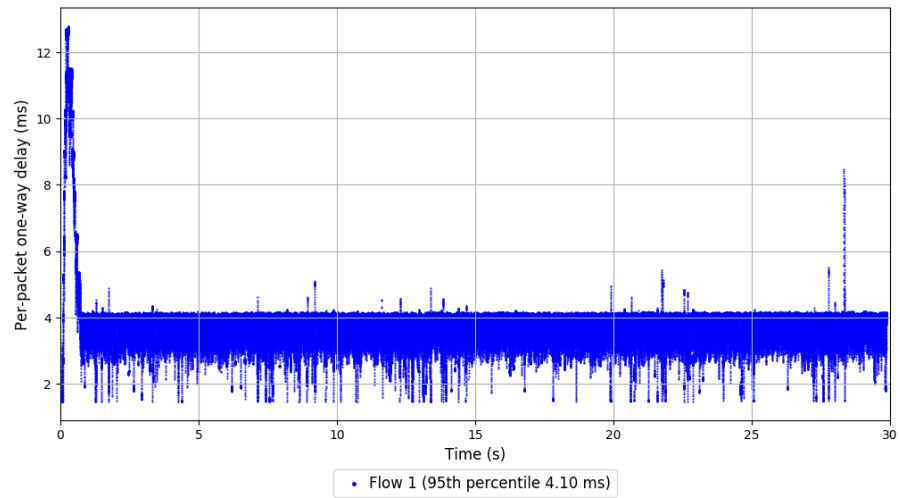
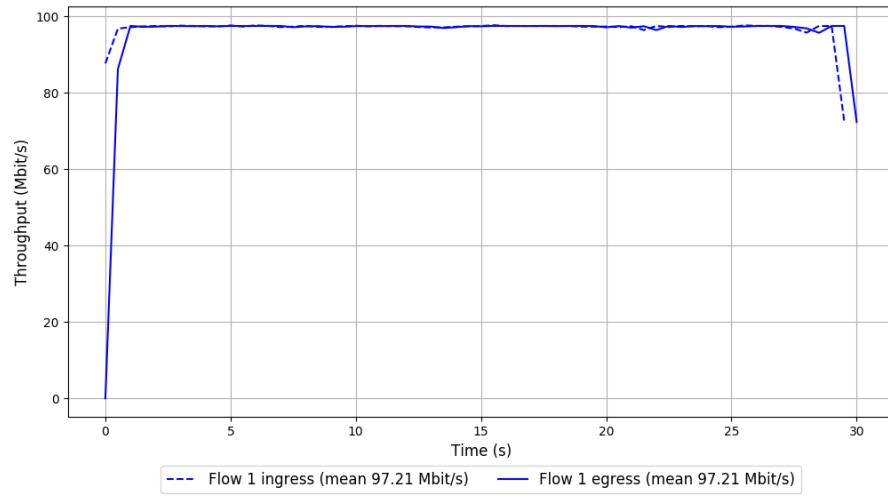
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 4.104 ms

Loss rate: 0.02%

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

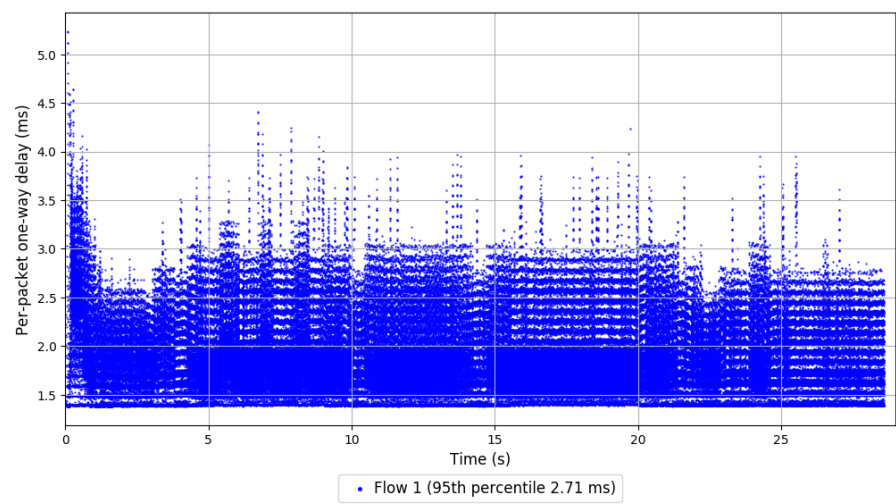
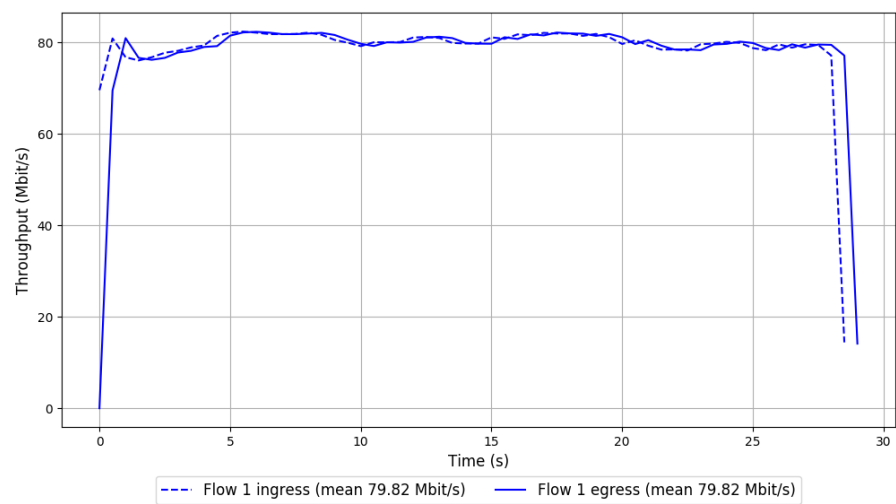


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-06-27 13:32:05  
End at: 2019-06-27 13:32:35  
Local clock offset: -6.525 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-06-27 15:21:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.82 Mbit/s  
95th percentile per-packet one-way delay: 2.712 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 79.82 Mbit/s  
95th percentile per-packet one-way delay: 2.712 ms  
Loss rate: 0.01%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-06-27 13:56:50

End at: 2019-06-27 13:57:20

Local clock offset: -6.537 ms

Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2019-06-27 15:21:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.78 Mbit/s

95th percentile per-packet one-way delay: 3.936 ms

Loss rate: 0.01%

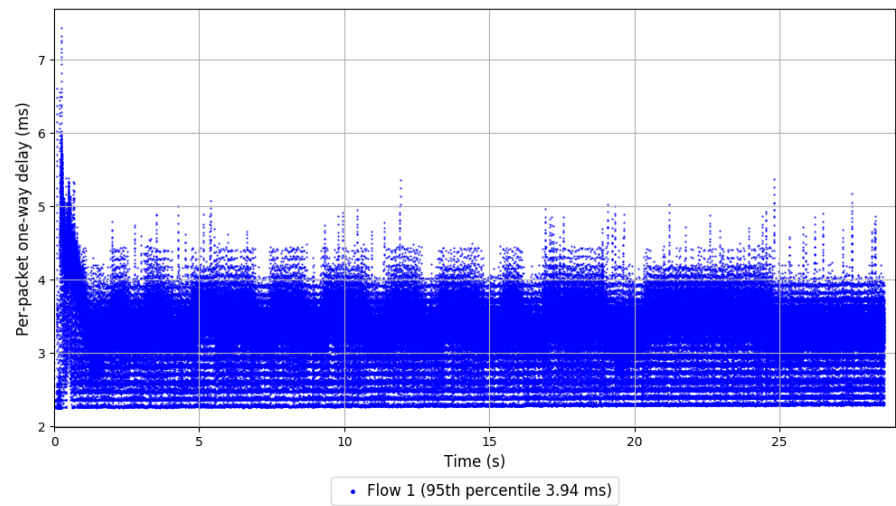
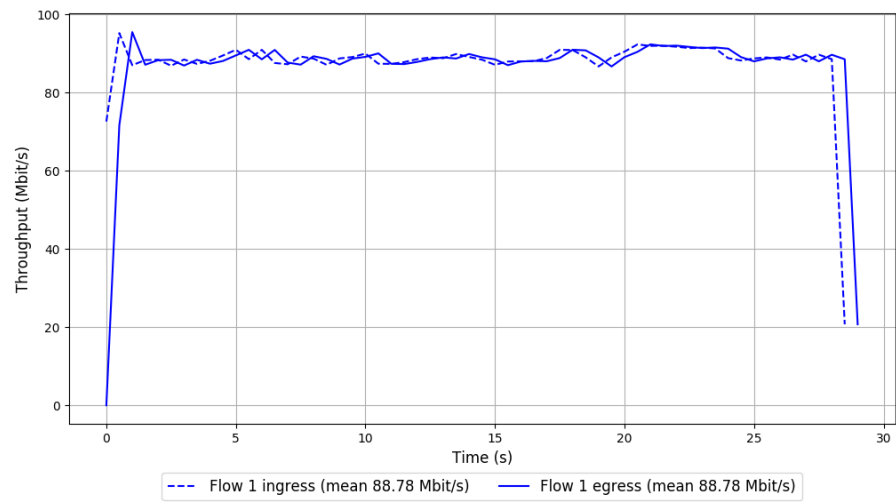
-- Flow 1:

Average throughput: 88.78 Mbit/s

95th percentile per-packet one-way delay: 3.936 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-06-27 14:21:39

End at: 2019-06-27 14:22:09

Local clock offset: -7.236 ms

Remote clock offset: 0.607 ms

# Below is generated by plot.py at 2019-06-27 15:21:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.24 Mbit/s

95th percentile per-packet one-way delay: 3.660 ms

Loss rate: 0.01%

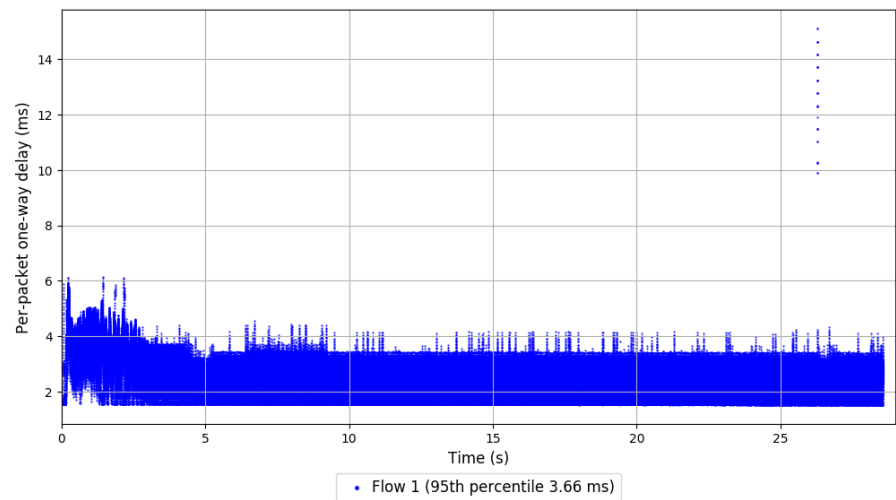
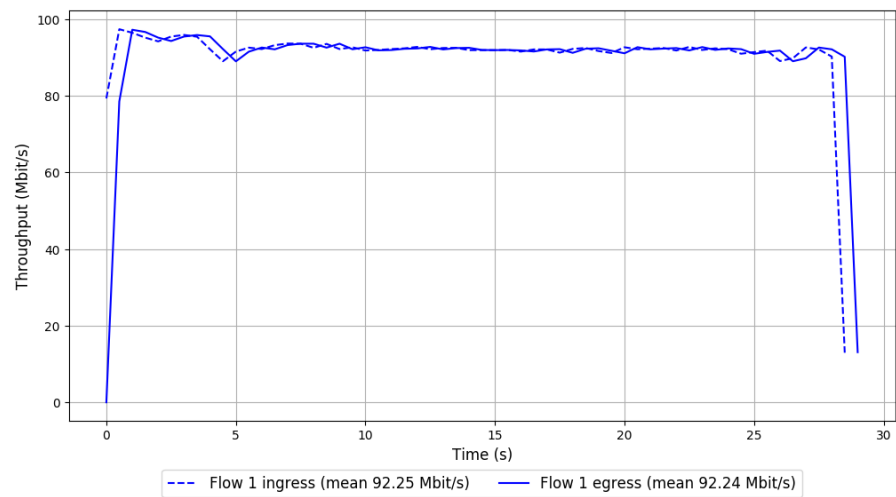
-- Flow 1:

Average throughput: 92.24 Mbit/s

95th percentile per-packet one-way delay: 3.660 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-06-27 14:46:26

End at: 2019-06-27 14:46:56

Local clock offset: -6.299 ms

Remote clock offset: 0.79 ms

# Below is generated by plot.py at 2019-06-27 15:21:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.92 Mbit/s

95th percentile per-packet one-way delay: 2.810 ms

Loss rate: 0.01%

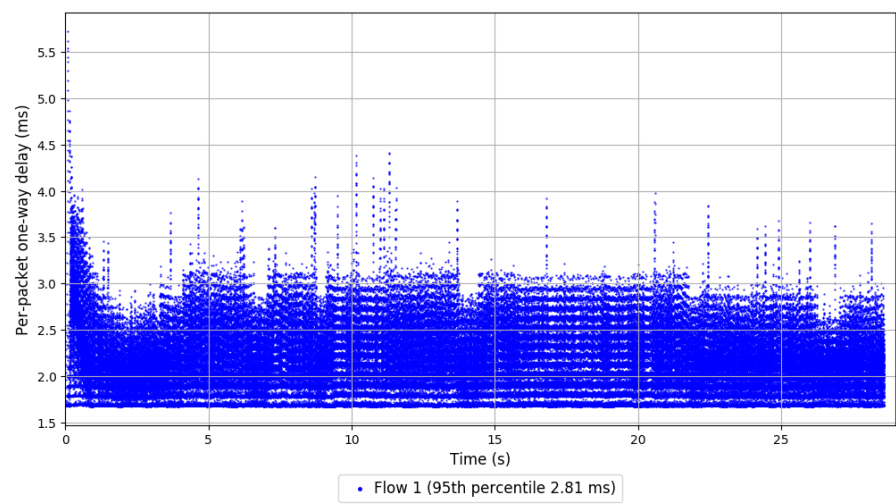
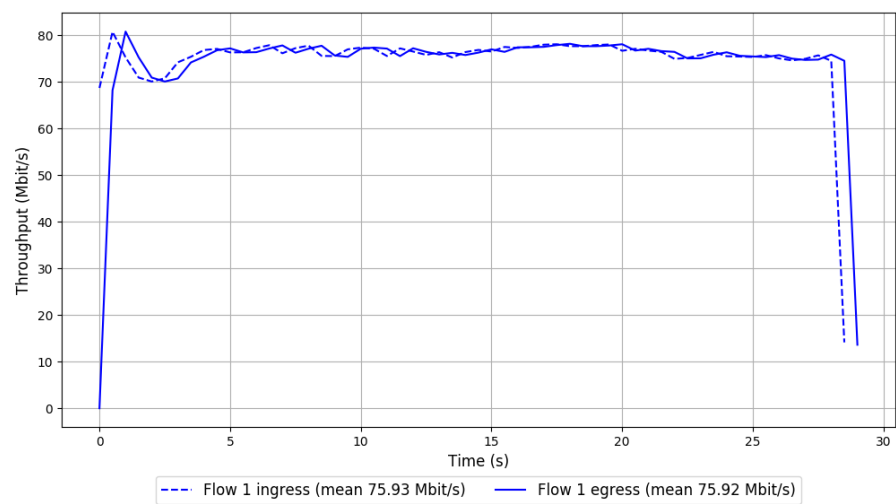
-- Flow 1:

Average throughput: 75.92 Mbit/s

95th percentile per-packet one-way delay: 2.810 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-06-27 15:11:17

End at: 2019-06-27 15:11:47

Local clock offset: -7.495 ms

Remote clock offset: 0.803 ms

# Below is generated by plot.py at 2019-06-27 15:21:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.02 Mbit/s

95th percentile per-packet one-way delay: 3.294 ms

Loss rate: 0.01%

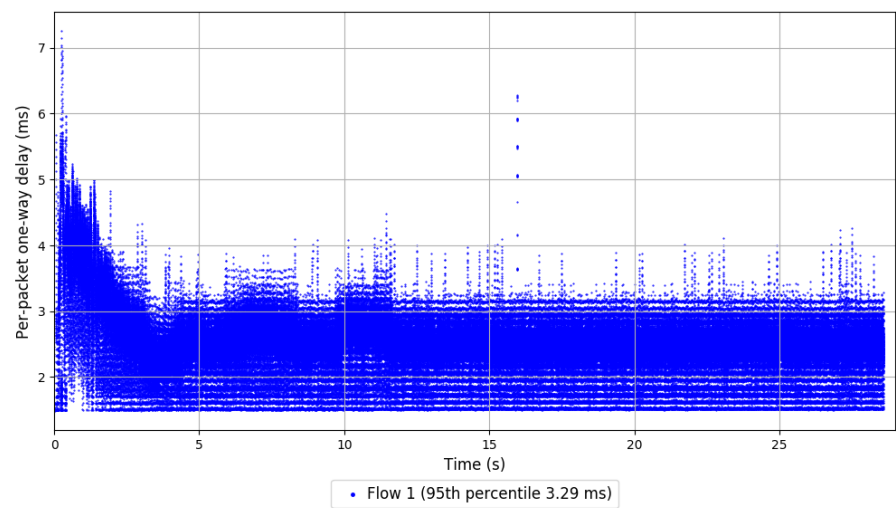
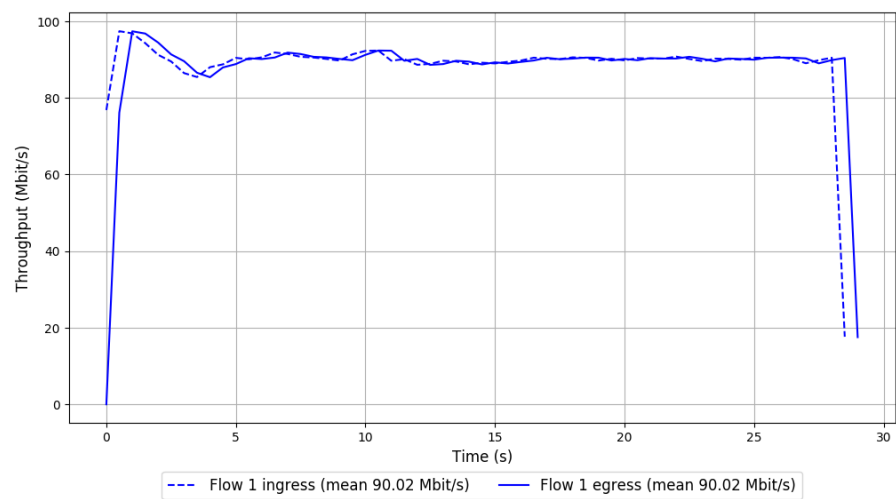
-- Flow 1:

Average throughput: 90.02 Mbit/s

95th percentile per-packet one-way delay: 3.294 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-06-27 13:25:22

End at: 2019-06-27 13:25:52

Local clock offset: -5.54 ms

Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-06-27 15:21:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.35 Mbit/s

95th percentile per-packet one-way delay: 3.473 ms

Loss rate: 0.01%

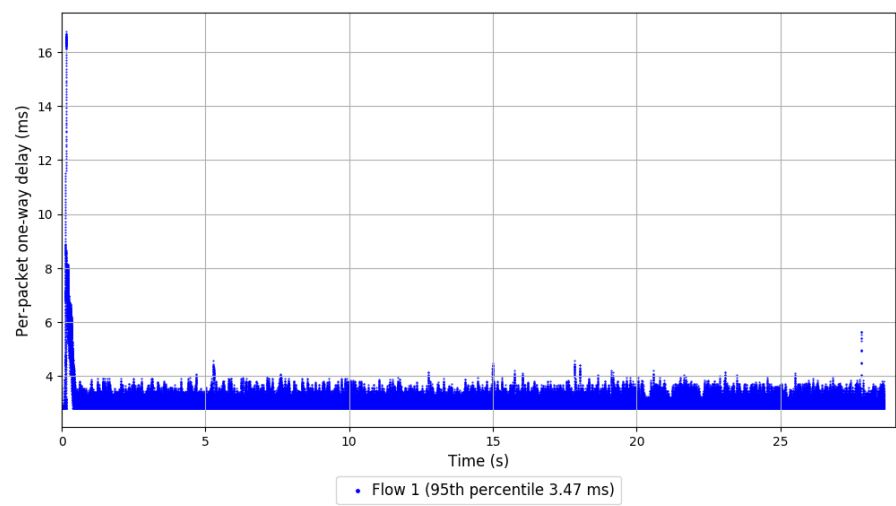
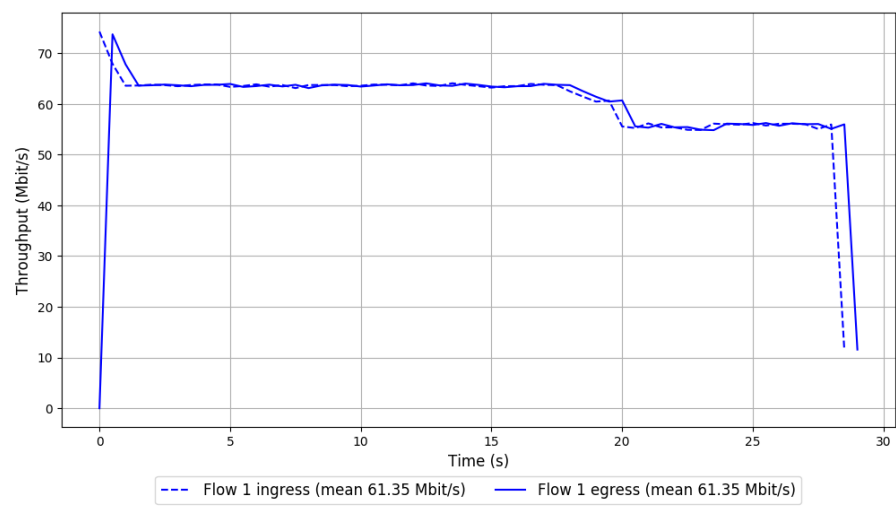
-- Flow 1:

Average throughput: 61.35 Mbit/s

95th percentile per-packet one-way delay: 3.473 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-06-27 13:50:09

End at: 2019-06-27 13:50:39

Local clock offset: -5.813 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-06-27 15:21:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 2.828 ms

Loss rate: 0.02%

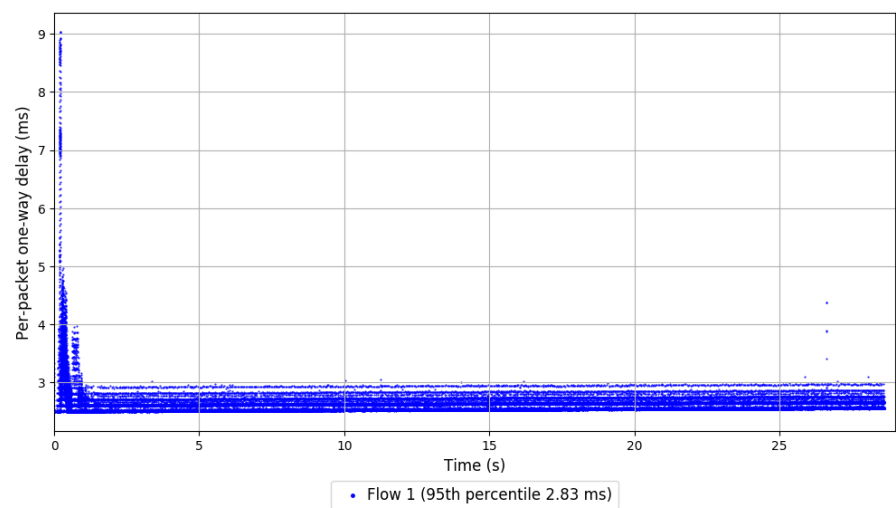
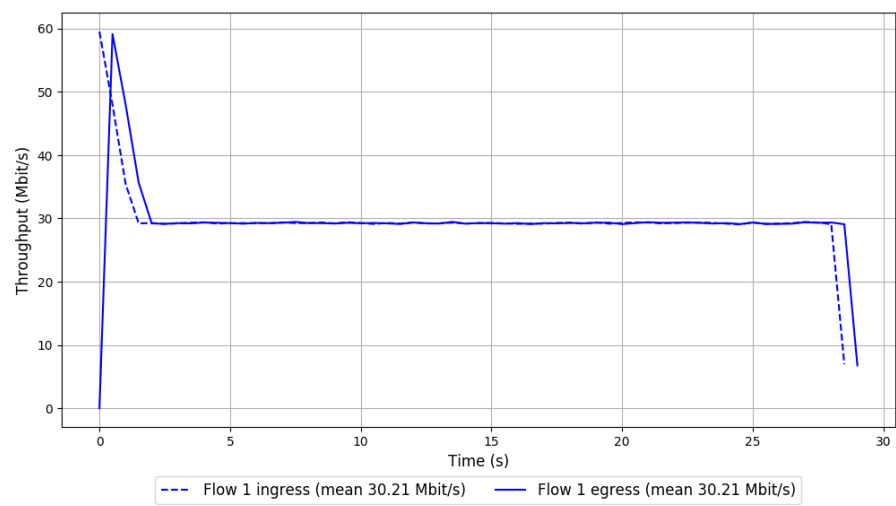
-- Flow 1:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 2.828 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

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

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

Local clock offset: -6.848 ms

Remote clock offset: 0.533 ms

# Below is generated by plot.py at 2019-06-27 15:21:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 2.727 ms

Loss rate: 0.01%

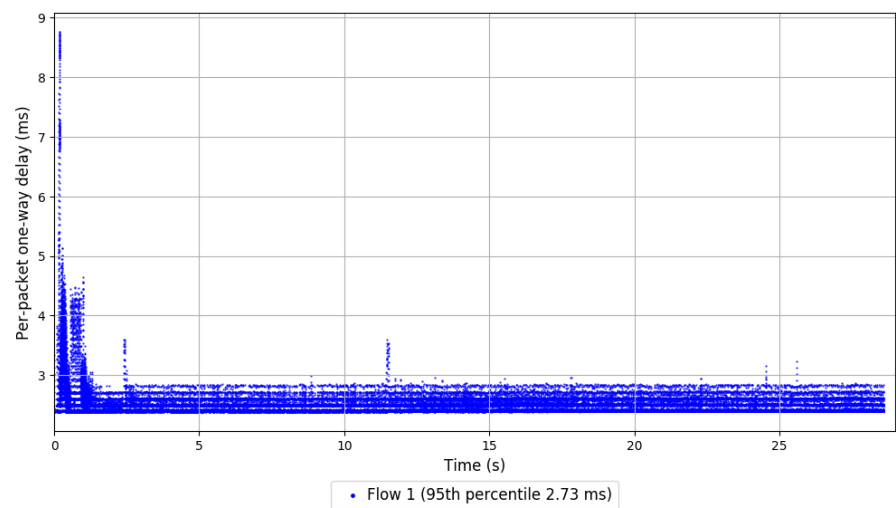
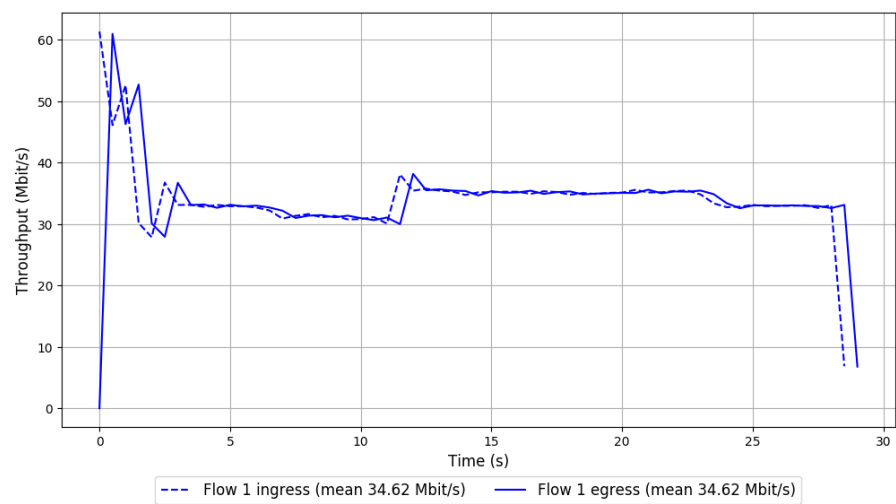
-- Flow 1:

Average throughput: 34.62 Mbit/s

95th percentile per-packet one-way delay: 2.727 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-06-27 14:39:45

End at: 2019-06-27 14:40:15

Local clock offset: -5.659 ms

Remote clock offset: 0.795 ms

# Below is generated by plot.py at 2019-06-27 15:21:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 3.868 ms

Loss rate: 0.02%

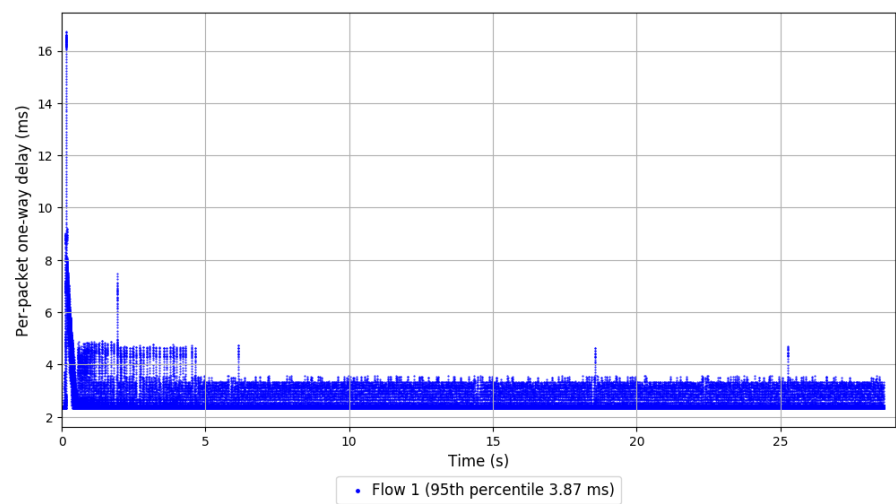
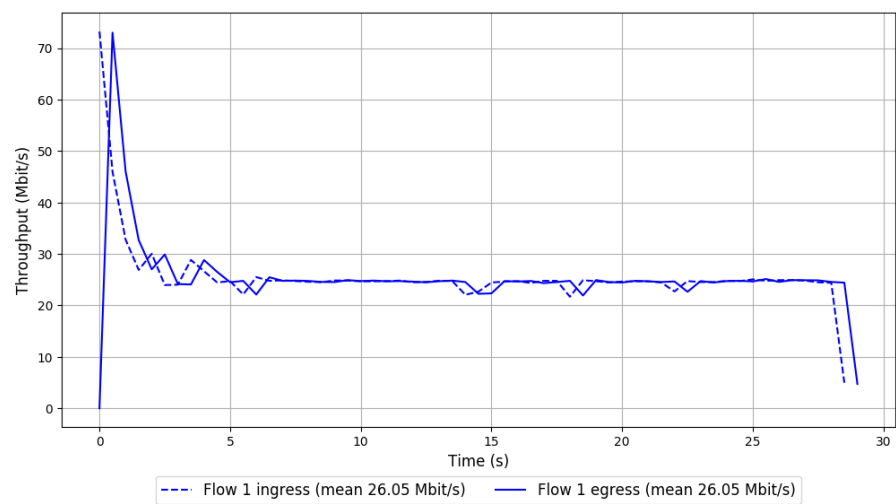
-- Flow 1:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 3.868 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-06-27 15:04:33

End at: 2019-06-27 15:05:03

Local clock offset: -7.404 ms

Remote clock offset: 0.752 ms

# Below is generated by plot.py at 2019-06-27 15:22:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.40 Mbit/s

95th percentile per-packet one-way delay: 1.940 ms

Loss rate: 0.01%

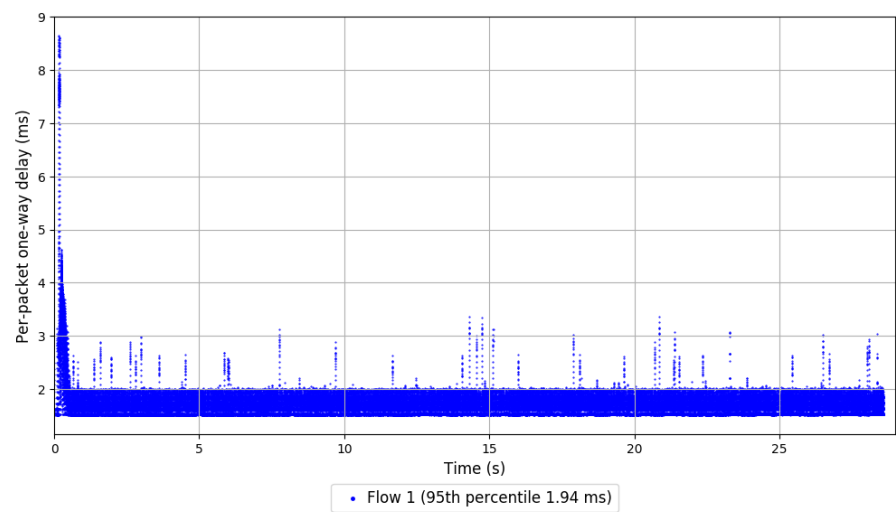
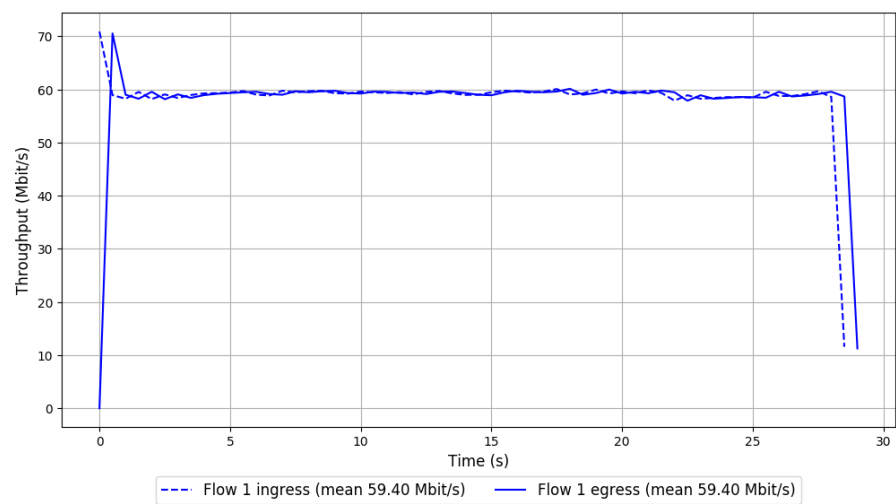
-- Flow 1:

Average throughput: 59.40 Mbit/s

95th percentile per-packet one-way delay: 1.940 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-06-27 13:15:08

End at: 2019-06-27 13:15:38

Local clock offset: -5.83 ms

Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2019-06-27 15:22:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 3.970 ms

Loss rate: 0.02%

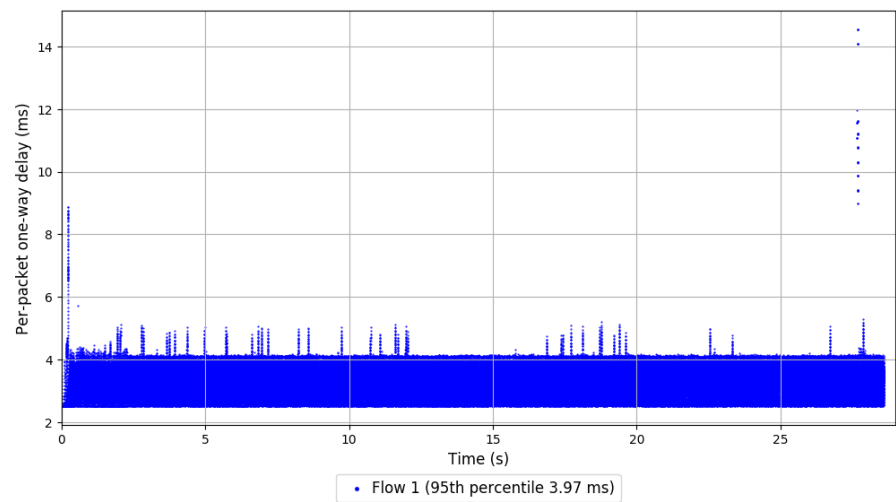
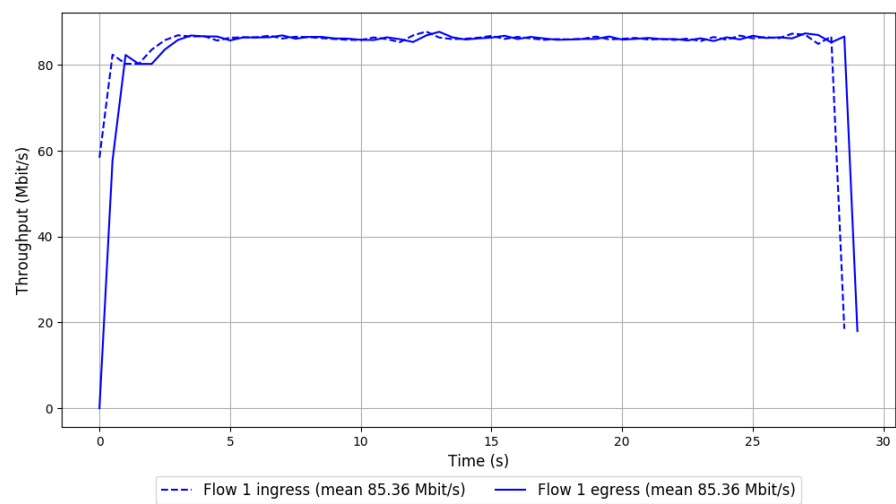
-- Flow 1:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 3.970 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-06-27 13:39:59

End at: 2019-06-27 13:40:29

Local clock offset: -5.755 ms

Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-06-27 15:22:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.62 Mbit/s

95th percentile per-packet one-way delay: 5.550 ms

Loss rate: 0.01%

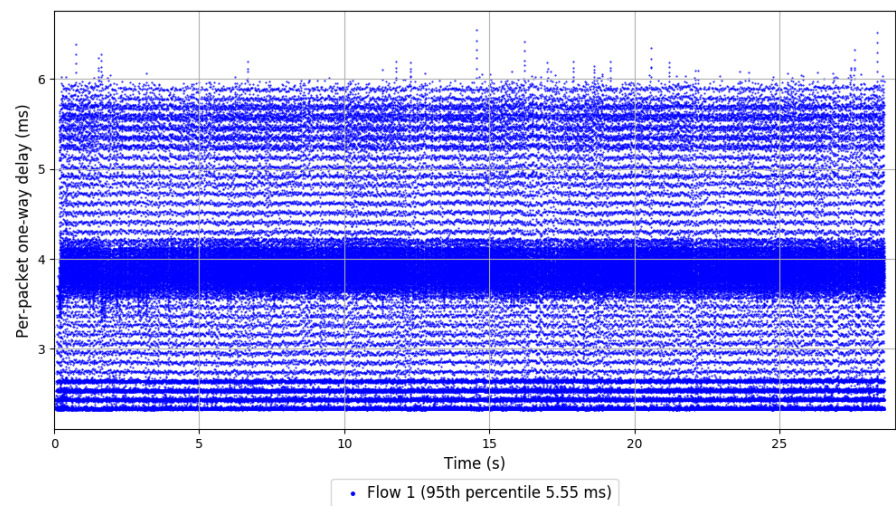
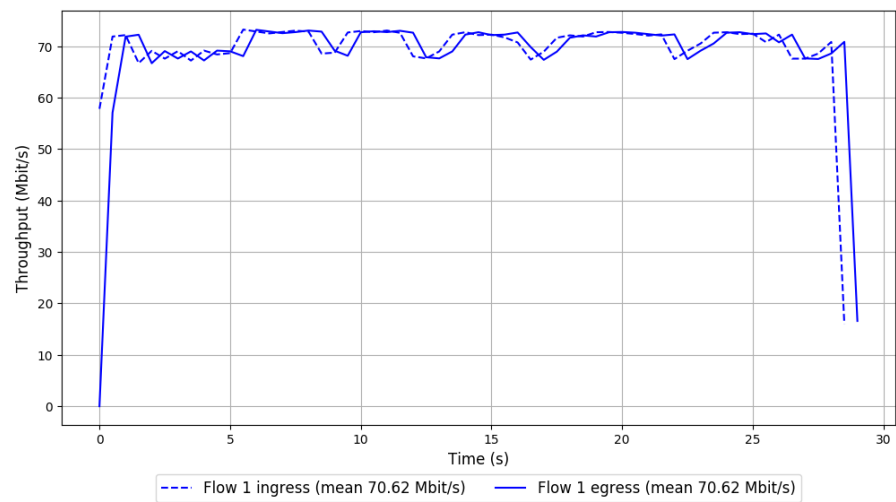
-- Flow 1:

Average throughput: 70.62 Mbit/s

95th percentile per-packet one-way delay: 5.550 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-06-27 14:04:45

End at: 2019-06-27 14:05:15

Local clock offset: -6.91 ms

Remote clock offset: 0.448 ms

# Below is generated by plot.py at 2019-06-27 15:22:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.88 Mbit/s

95th percentile per-packet one-way delay: 2.621 ms

Loss rate: 0.00%

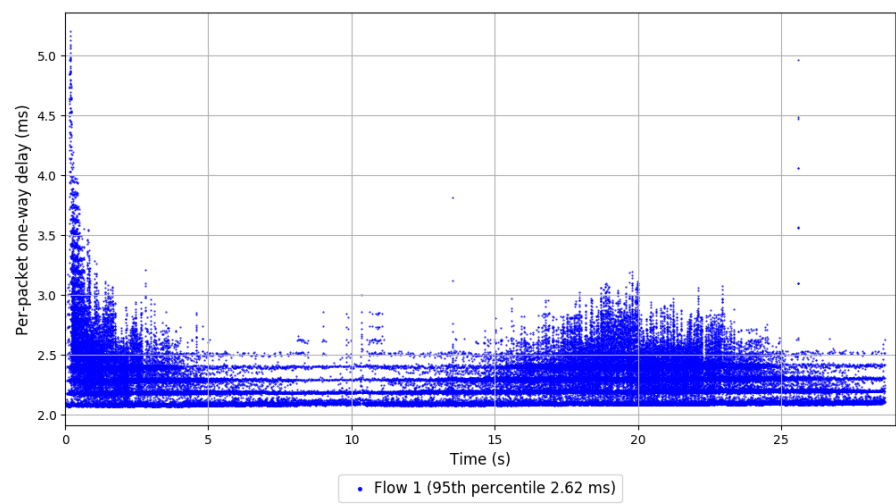
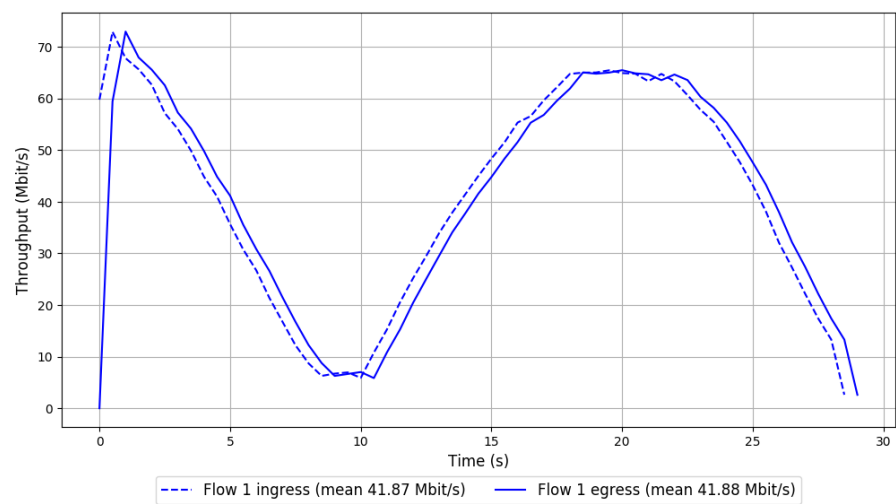
-- Flow 1:

Average throughput: 41.88 Mbit/s

95th percentile per-packet one-way delay: 2.621 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-06-27 14:29:33

End at: 2019-06-27 14:30:03

Local clock offset: -6.697 ms

Remote clock offset: 0.549 ms

# Below is generated by plot.py at 2019-06-27 15:22:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 3.300 ms

Loss rate: 0.01%

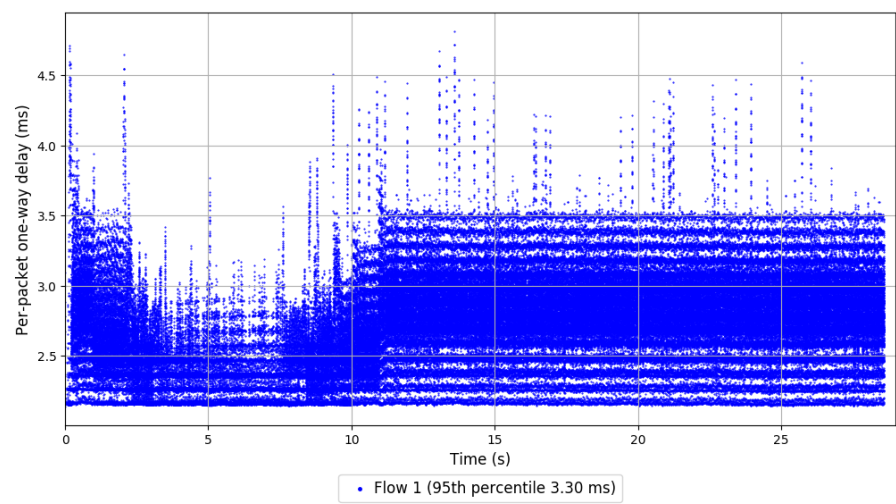
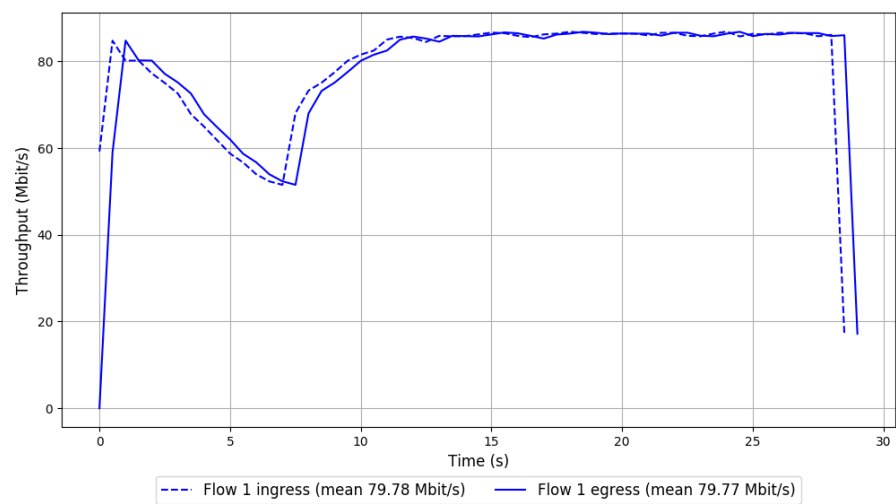
-- Flow 1:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 3.300 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-06-27 14:54:20

End at: 2019-06-27 14:54:50

Local clock offset: -6.794 ms

Remote clock offset: 0.712 ms

# Below is generated by plot.py at 2019-06-27 15:22:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 2.326 ms

Loss rate: 0.00%

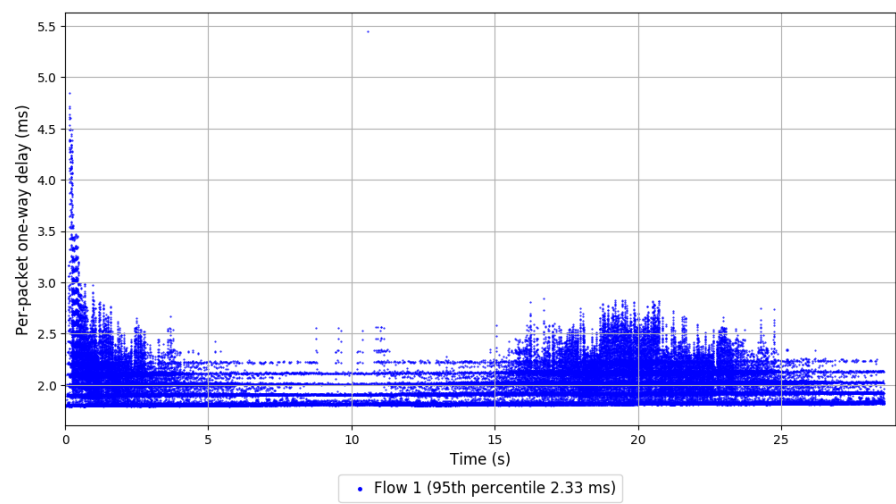
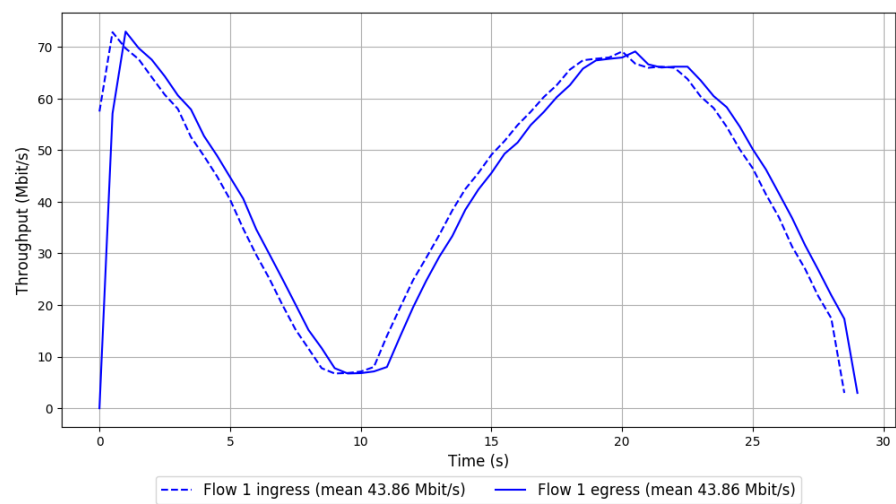
-- Flow 1:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 2.326 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

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

End at: 2019-06-27 13:28:03

Local clock offset: -5.587 ms

Remote clock offset: -0.106 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 3.566 ms

Loss rate: 0.01%

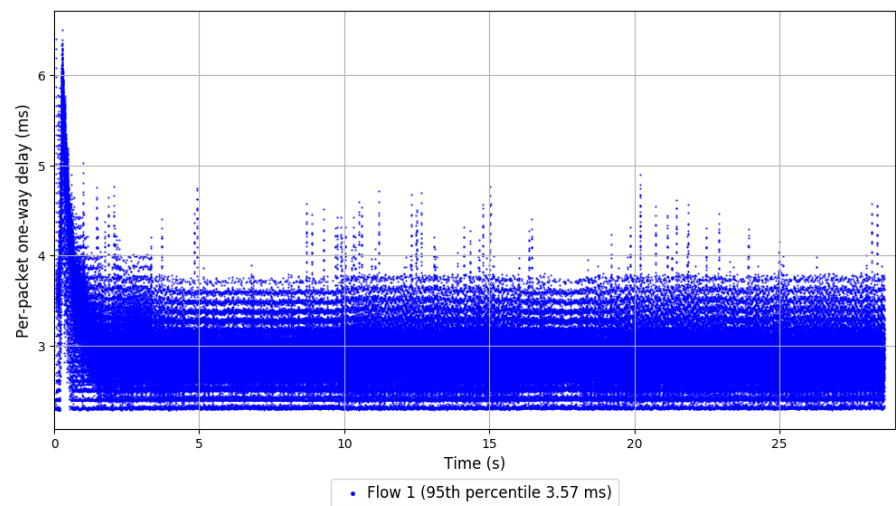
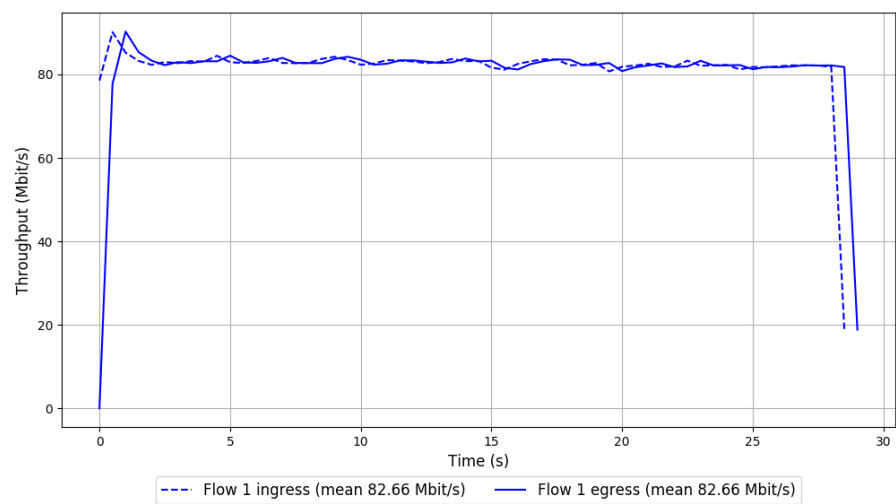
-- Flow 1:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 3.566 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-06-27 13:52:19

End at: 2019-06-27 13:52:49

Local clock offset: -6.034 ms

Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2019-06-27 15:22:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.16 Mbit/s

95th percentile per-packet one-way delay: 3.654 ms

Loss rate: 0.02%

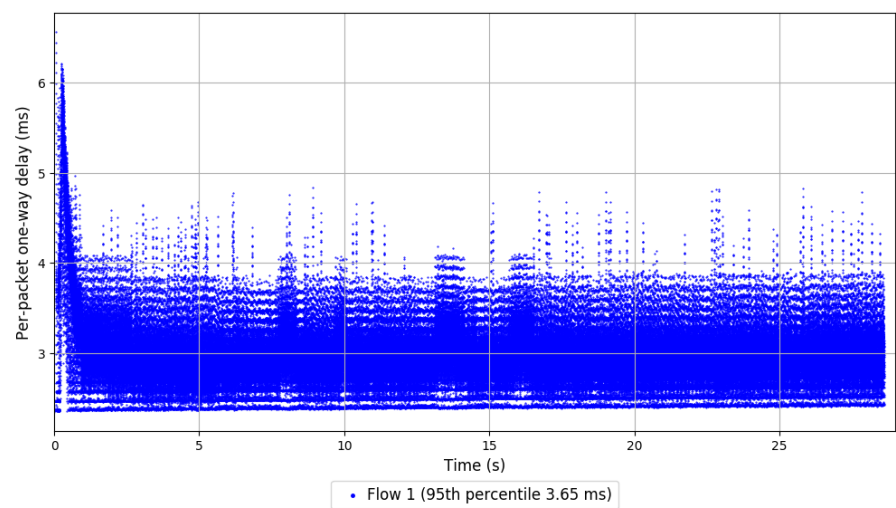
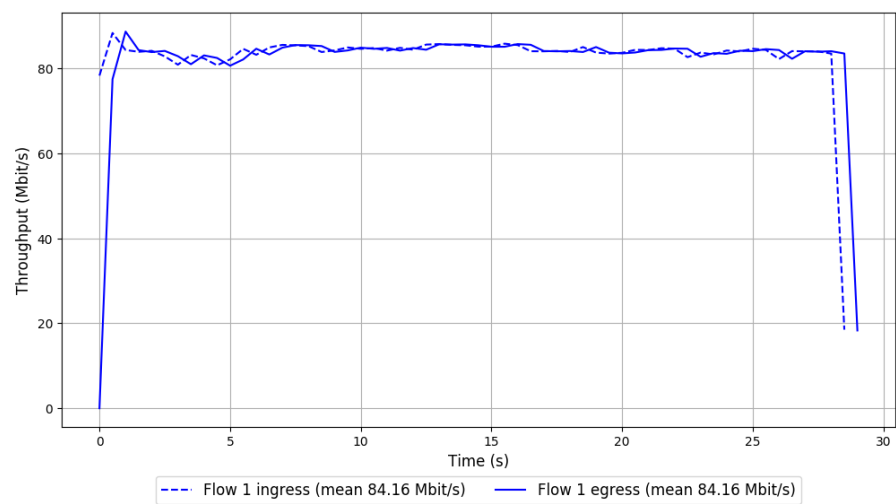
-- Flow 1:

Average throughput: 84.16 Mbit/s

95th percentile per-packet one-way delay: 3.654 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-06-27 14:17:07

End at: 2019-06-27 14:17:37

Local clock offset: -7.882 ms

Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2019-06-27 15:23:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 2.994 ms

Loss rate: 0.01%

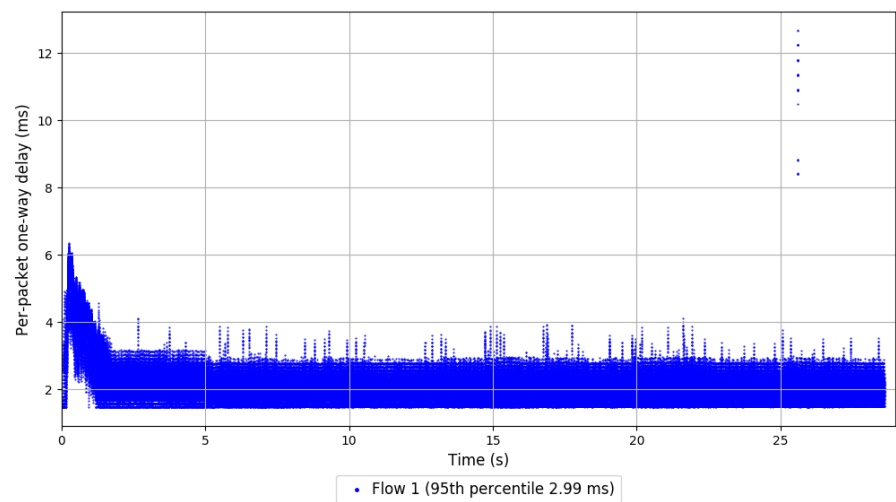
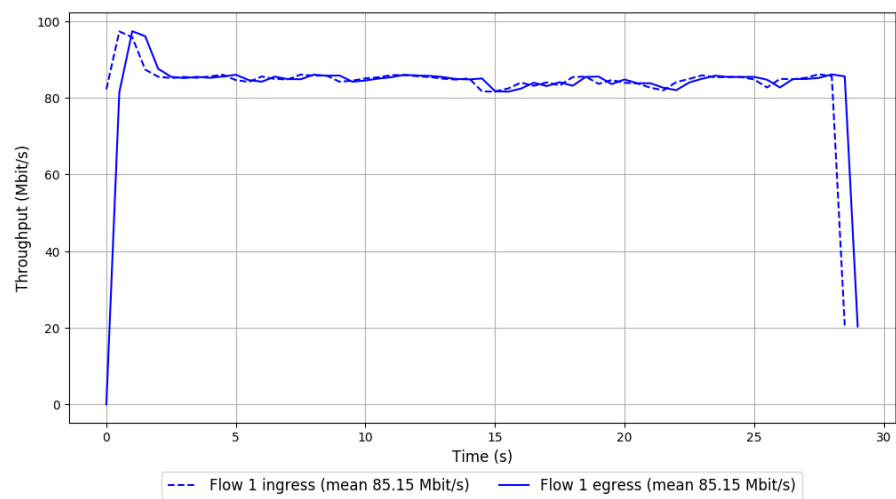
-- Flow 1:

Average throughput: 85.15 Mbit/s

95th percentile per-packet one-way delay: 2.994 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-06-27 14:41:55

End at: 2019-06-27 14:42:25

Local clock offset: -5.676 ms

Remote clock offset: 0.696 ms

# Below is generated by plot.py at 2019-06-27 15:23:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 3.954 ms

Loss rate: 0.01%

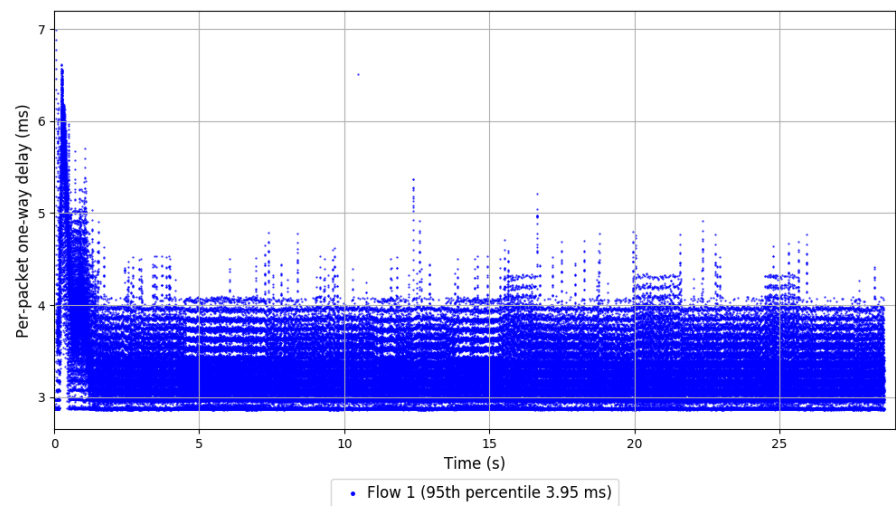
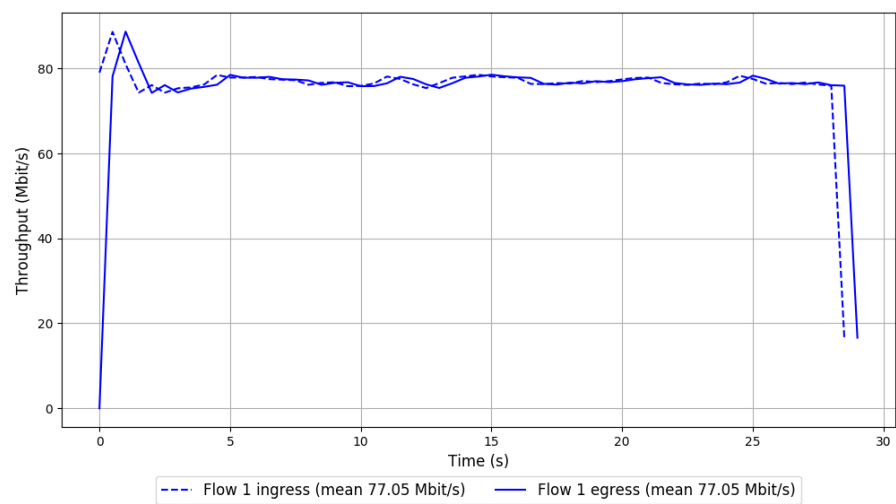
-- Flow 1:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 3.954 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

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

End at: 2019-06-27 15:07:14

Local clock offset: -6.458 ms

Remote clock offset: 0.799 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 4.760 ms

Loss rate: 0.01%

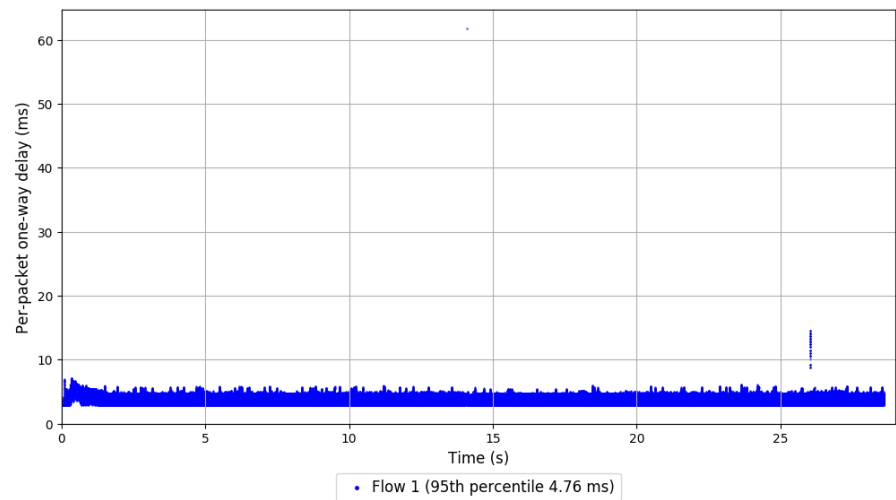
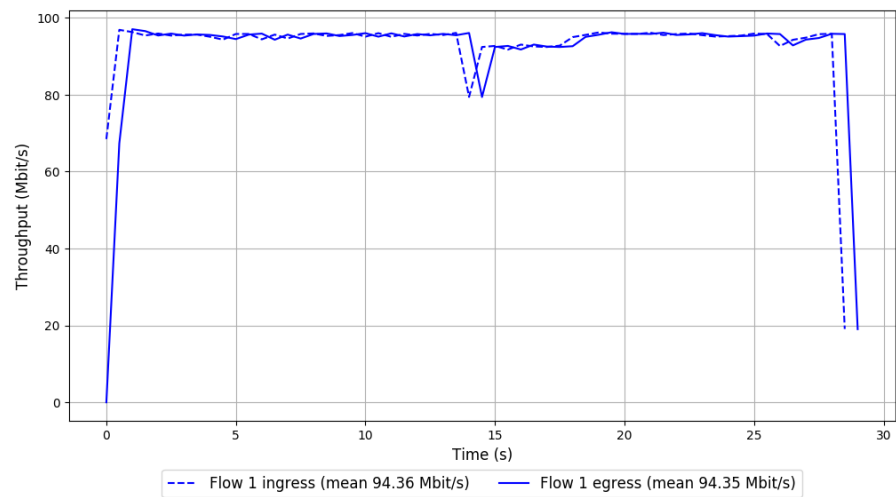
-- Flow 1:

Average throughput: 94.35 Mbit/s

95th percentile per-packet one-way delay: 4.760 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link

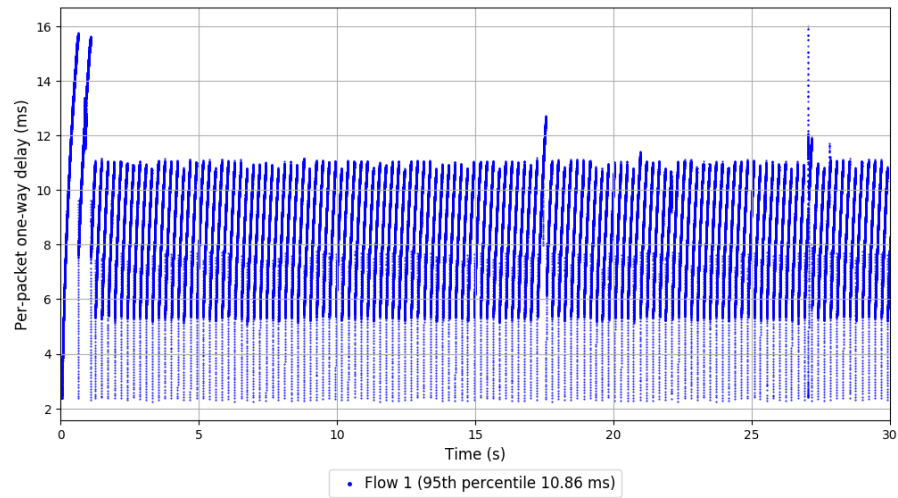
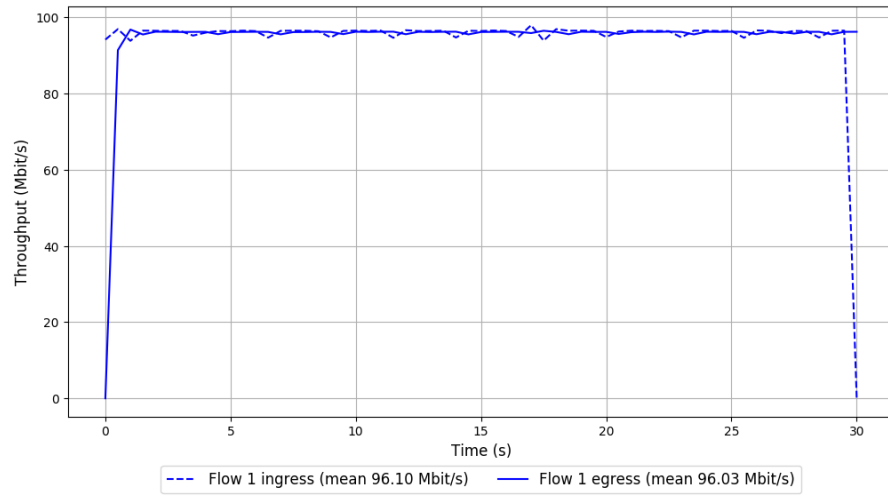


Run 1: Statistics of LEDBAT

Start at: 2019-06-27 13:24:13  
End at: 2019-06-27 13:24:43  
Local clock offset: -5.531 ms  
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2019-06-27 15:23:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.03 Mbit/s  
95th percentile per-packet one-way delay: 10.862 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 96.03 Mbit/s  
95th percentile per-packet one-way delay: 10.862 ms  
Loss rate: 0.08%

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



Run 2: Statistics of LEDBAT

Start at: 2019-06-27 13:48:59

End at: 2019-06-27 13:49:29

Local clock offset: -6.65 ms

Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2019-06-27 15:23:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 9.959 ms

Loss rate: 0.09%

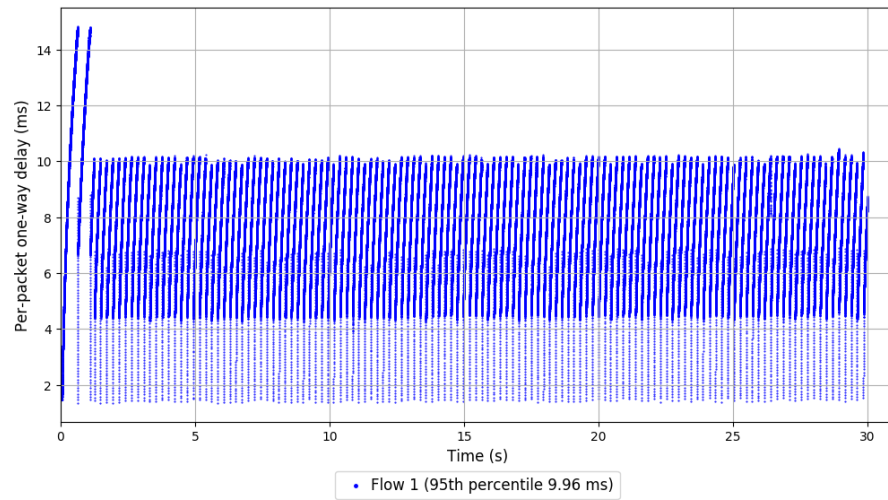
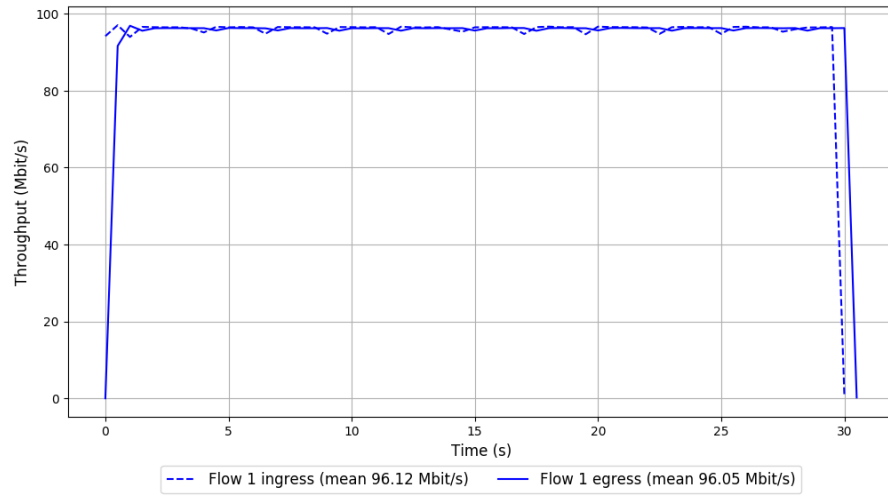
-- Flow 1:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 9.959 ms

Loss rate: 0.09%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-06-27 14:13:48

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

Local clock offset: -7.592 ms

Remote clock offset: 0.448 ms

# Below is generated by plot.py at 2019-06-27 15:23:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 10.165 ms

Loss rate: 0.09%

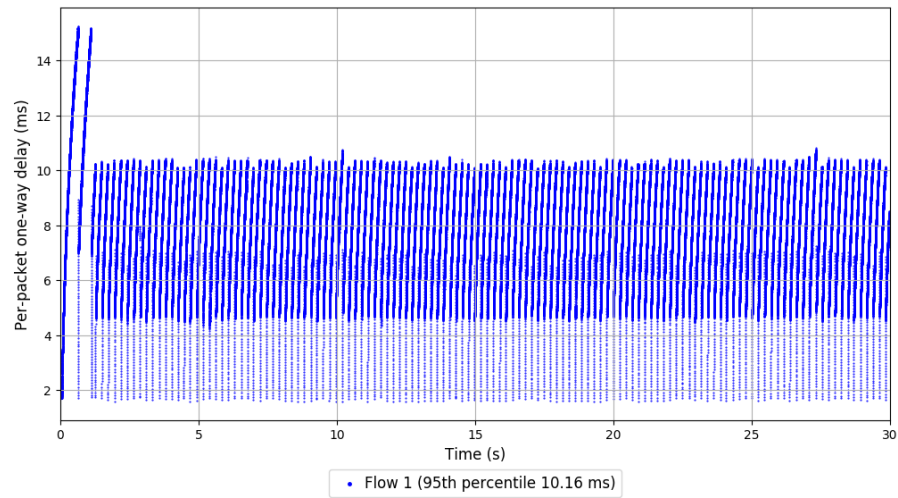
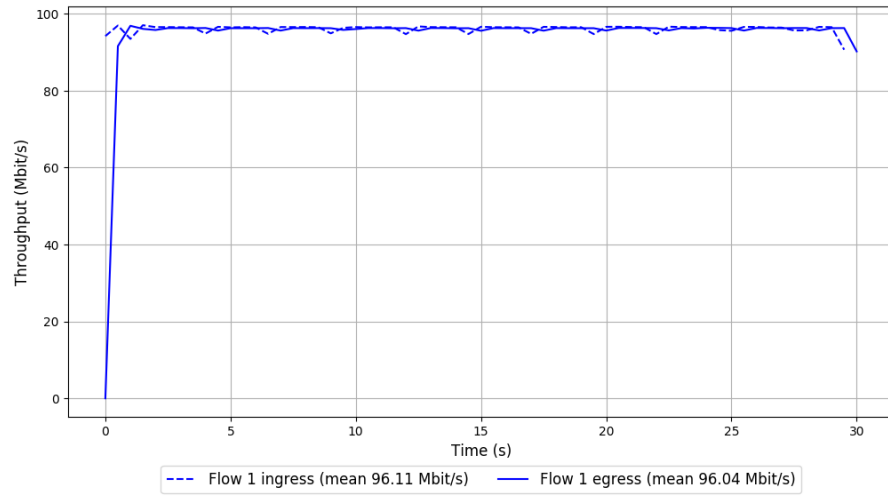
-- Flow 1:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 10.165 ms

Loss rate: 0.09%

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



Run 4: Statistics of LEDBAT

Start at: 2019-06-27 14:38:36

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

Local clock offset: -6.492 ms

Remote clock offset: 0.673 ms

# Below is generated by plot.py at 2019-06-27 15:23:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 10.068 ms

Loss rate: 0.08%

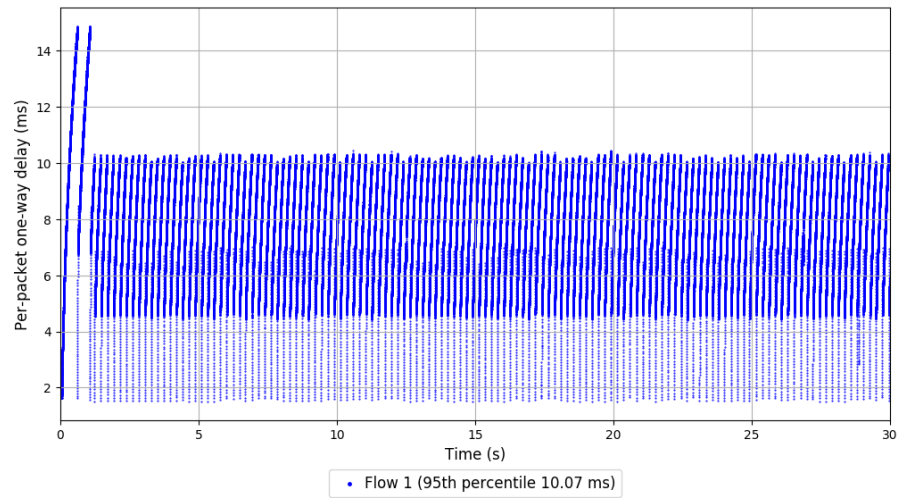
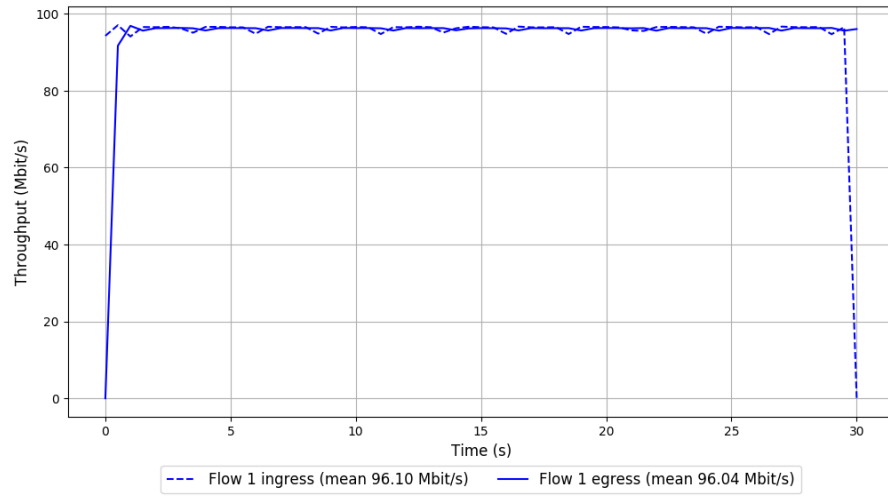
-- Flow 1:

Average throughput: 96.04 Mbit/s

95th percentile per-packet one-way delay: 10.068 ms

Loss rate: 0.08%

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



Run 5: Statistics of LEDBAT

Start at: 2019-06-27 15:03:24

End at: 2019-06-27 15:03:54

Local clock offset: -7.165 ms

Remote clock offset: 0.81 ms

# Below is generated by plot.py at 2019-06-27 15:23:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 9.873 ms

Loss rate: 0.08%

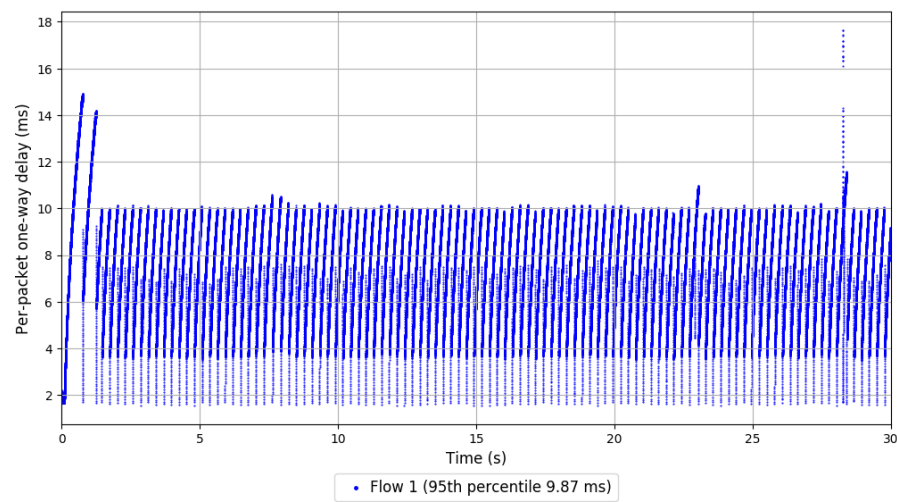
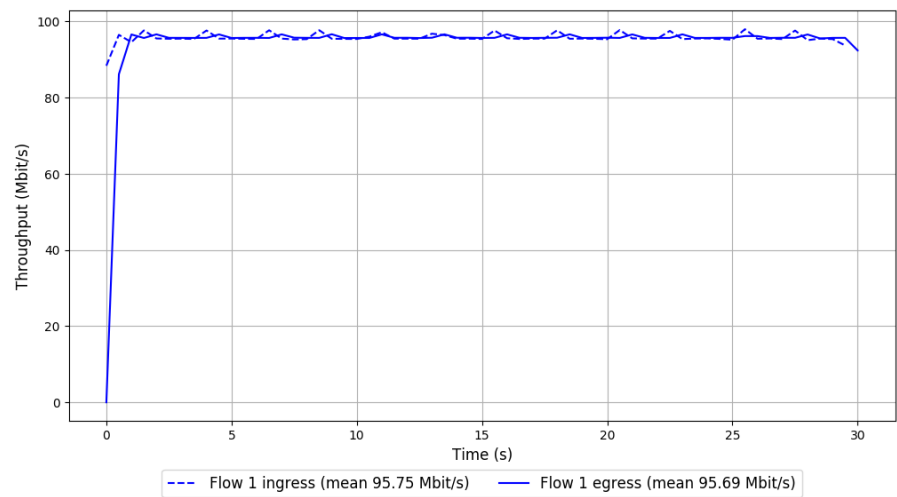
-- Flow 1:

Average throughput: 95.69 Mbit/s

95th percentile per-packet one-way delay: 9.873 ms

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 13:23:08

End at: 2019-06-27 13:23:38

Local clock offset: -5.588 ms

Remote clock offset: -0.169 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 13:47:55

End at: 2019-06-27 13:48:25

Local clock offset: -5.742 ms

Remote clock offset: 0.044 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 14:12:44

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

Local clock offset: -7.807 ms

Remote clock offset: 0.509 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 14:37:31

End at: 2019-06-27 14:38:01

Local clock offset: -5.692 ms

Remote clock offset: 0.675 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 15:02:19

End at: 2019-06-27 15:02:49

Local clock offset: -7.119 ms

Remote clock offset: 0.863 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 13:11:48

End at: 2019-06-27 13:12:18

Local clock offset: -5.813 ms

Remote clock offset: -0.262 ms

# Below is generated by plot.py at 2019-06-27 15:24:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 2.812 ms

Loss rate: 0.01%

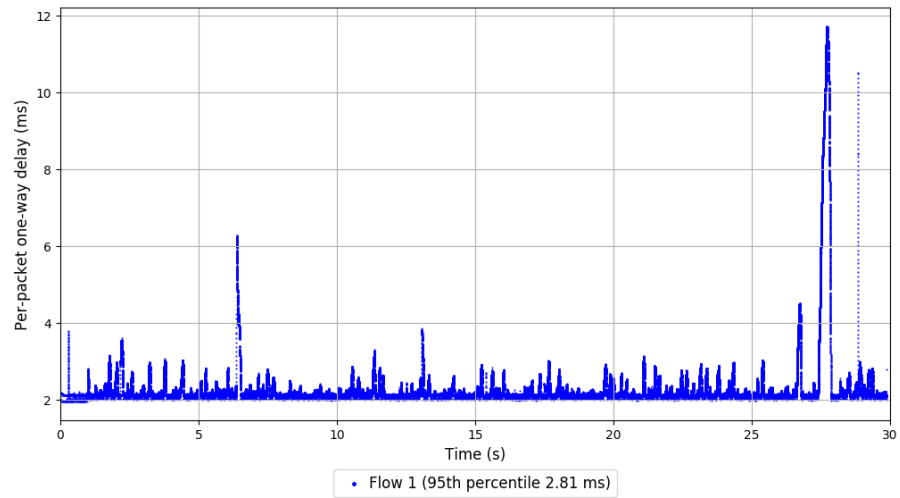
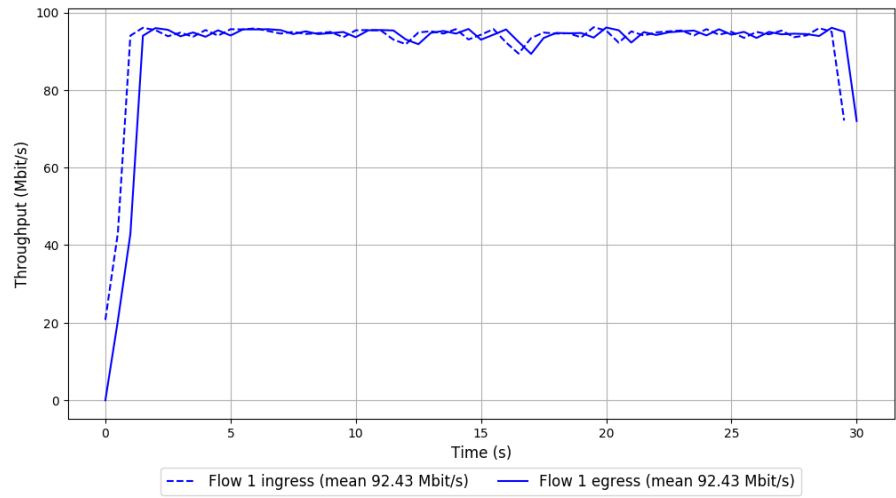
-- Flow 1:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 2.812 ms

Loss rate: 0.01%

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



Run 2: Statistics of PCC-Allegro

Start at: 2019-06-27 13:36:39

End at: 2019-06-27 13:37:09

Local clock offset: -6.363 ms

Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-06-27 15:24:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 2.609 ms

Loss rate: 0.01%

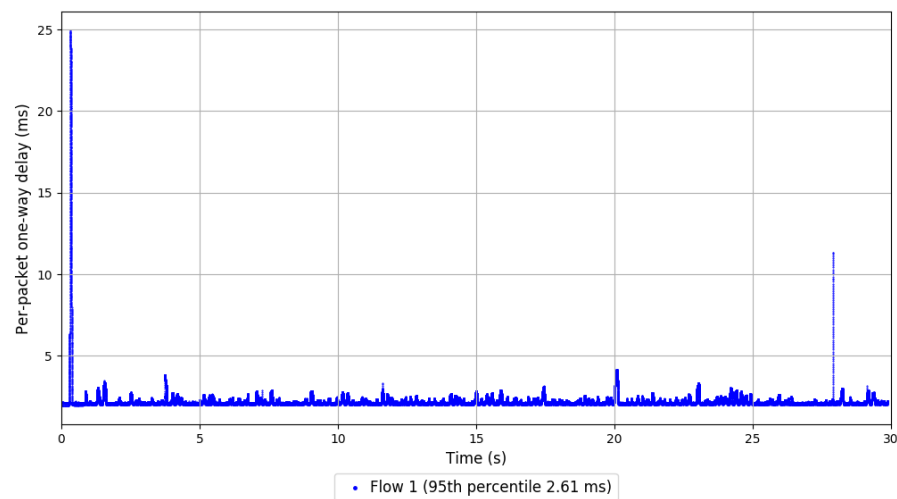
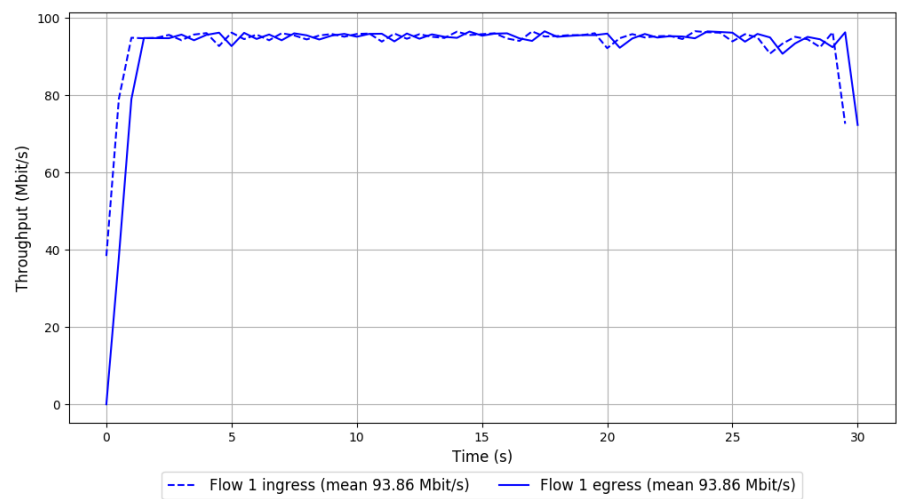
-- Flow 1:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 2.609 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-06-27 14:01:25

End at: 2019-06-27 14:01:55

Local clock offset: -6.535 ms

Remote clock offset: 0.391 ms

# Below is generated by plot.py at 2019-06-27 15:24:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 3.095 ms

Loss rate: 0.01%

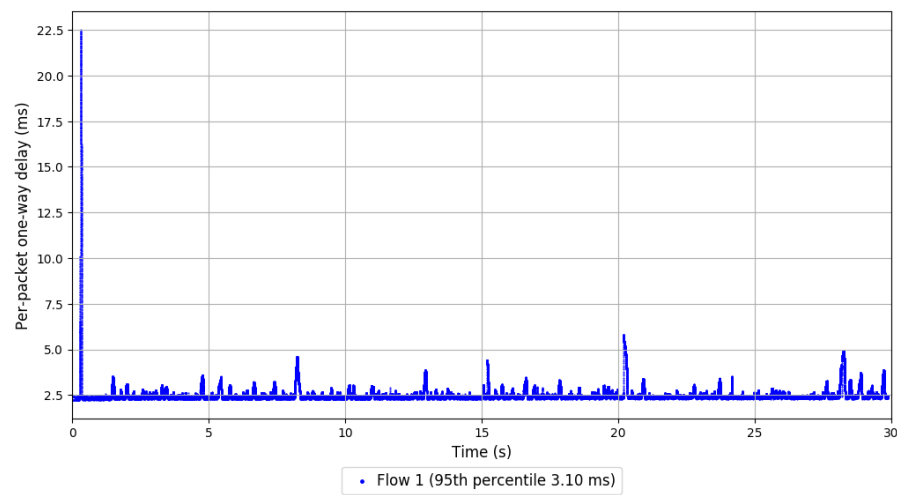
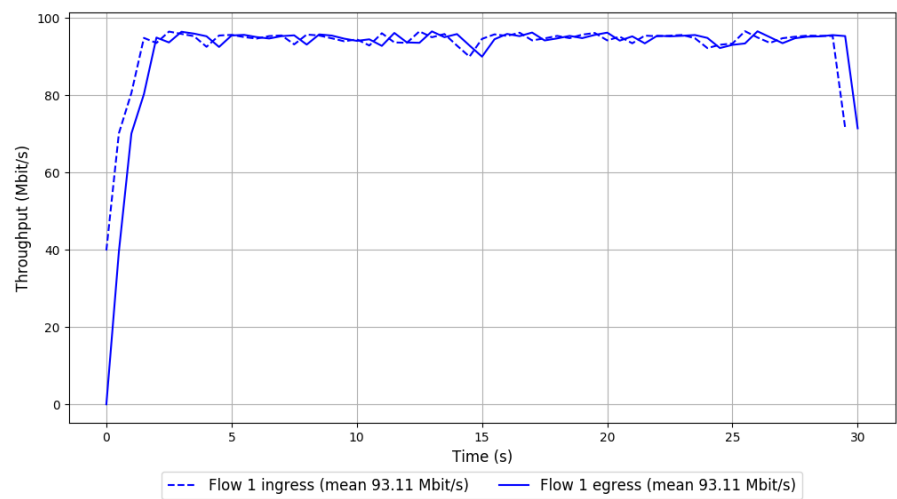
-- Flow 1:

Average throughput: 93.11 Mbit/s

95th percentile per-packet one-way delay: 3.095 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-06-27 14:26:13

End at: 2019-06-27 14:26:43

Local clock offset: -7.103 ms

Remote clock offset: 0.549 ms

# Below is generated by plot.py at 2019-06-27 15:24:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 2.928 ms

Loss rate: 0.01%

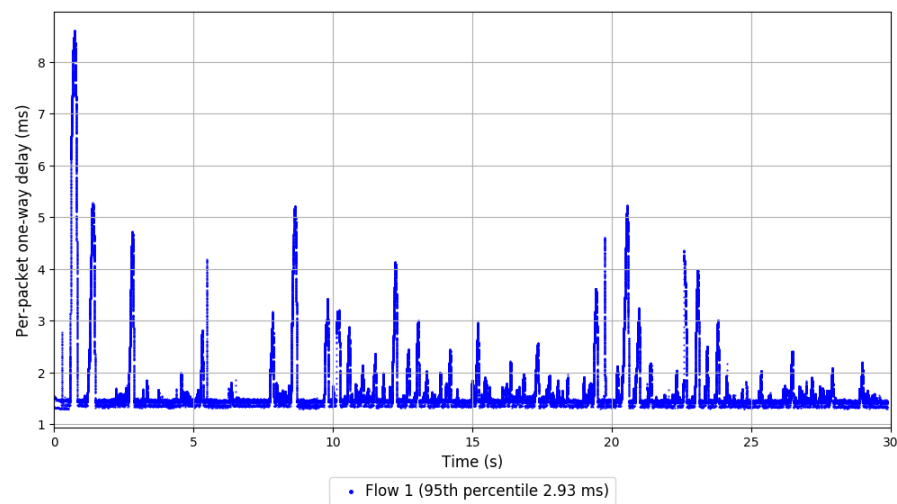
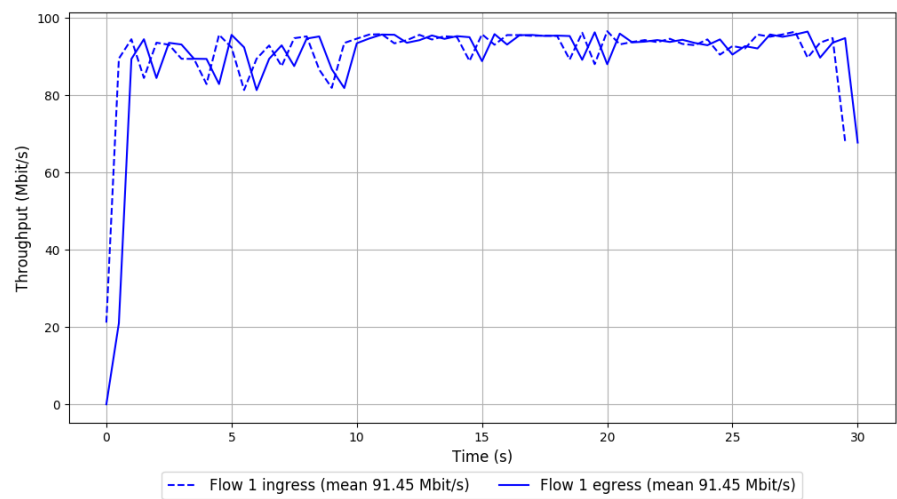
-- Flow 1:

Average throughput: 91.45 Mbit/s

95th percentile per-packet one-way delay: 2.928 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2019-06-27 14:51:01

End at: 2019-06-27 14:51:31

Local clock offset: -5.808 ms

Remote clock offset: 0.8 ms

# Below is generated by plot.py at 2019-06-27 15:24:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 3.186 ms

Loss rate: 0.01%

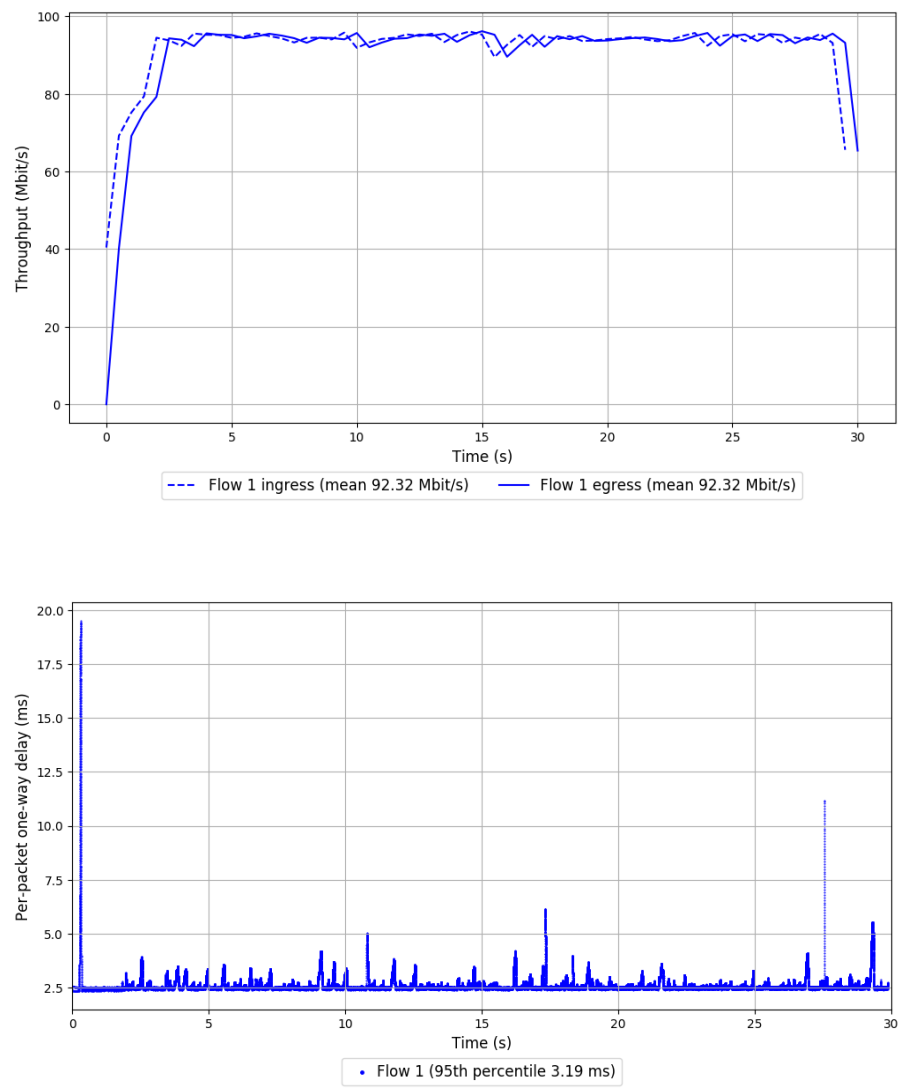
-- Flow 1:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 3.186 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link

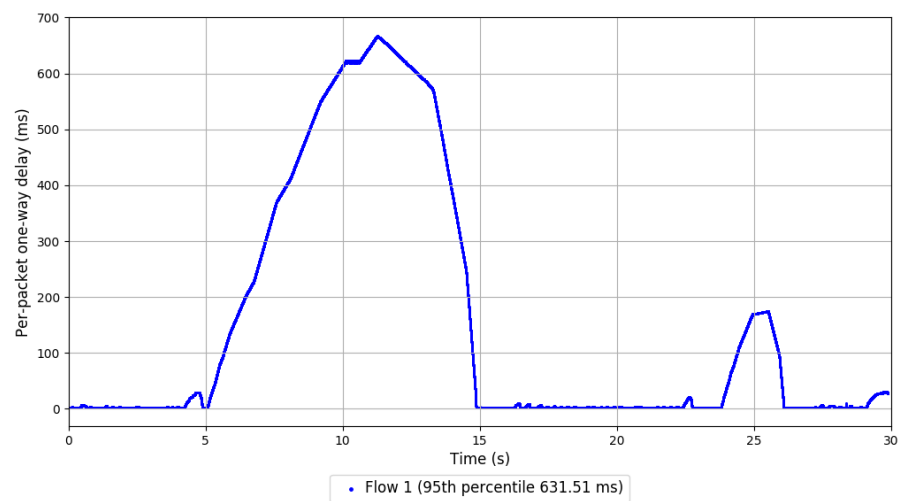
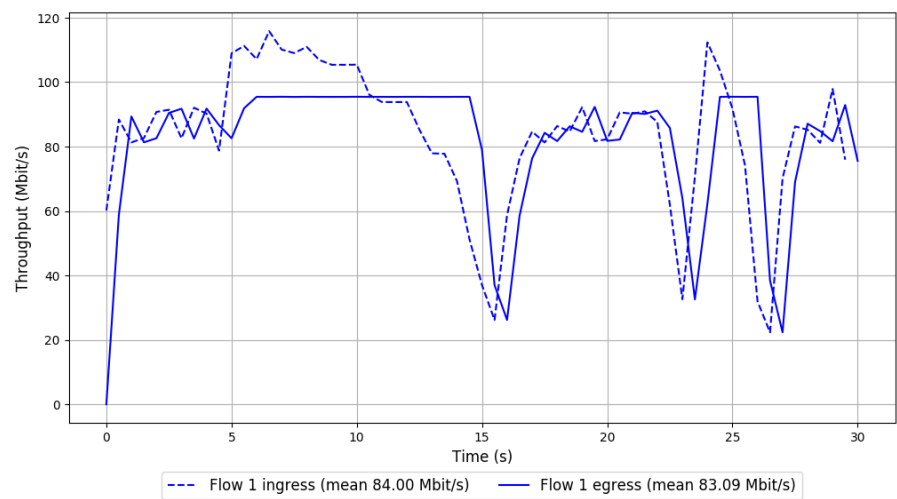


Run 1: Statistics of PCC-Expr

Start at: 2019-06-27 13:34:20  
End at: 2019-06-27 13:34:50  
Local clock offset: -6.296 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-06-27 15:25:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.09 Mbit/s  
95th percentile per-packet one-way delay: 631.507 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 83.09 Mbit/s  
95th percentile per-packet one-way delay: 631.507 ms  
Loss rate: 1.09%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-06-27 13:59:06

End at: 2019-06-27 13:59:36

Local clock offset: -7.185 ms

Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2019-06-27 15:25:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 647.319 ms

Loss rate: 6.66%

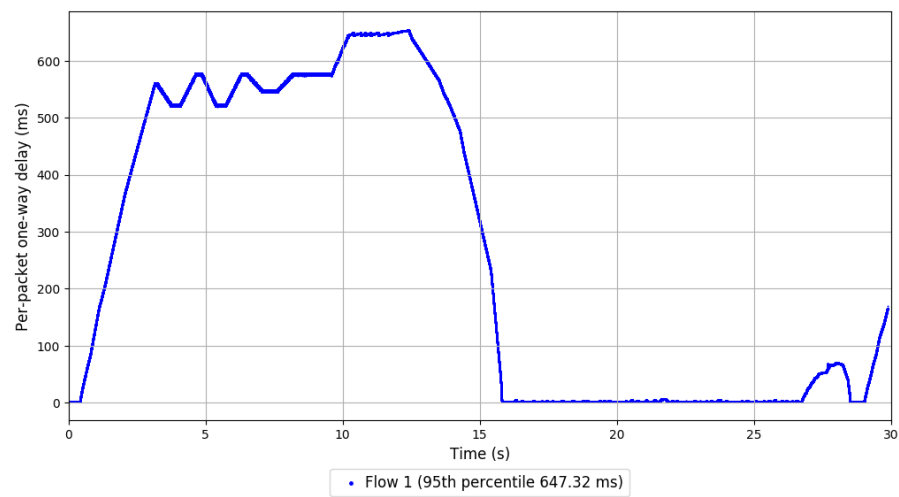
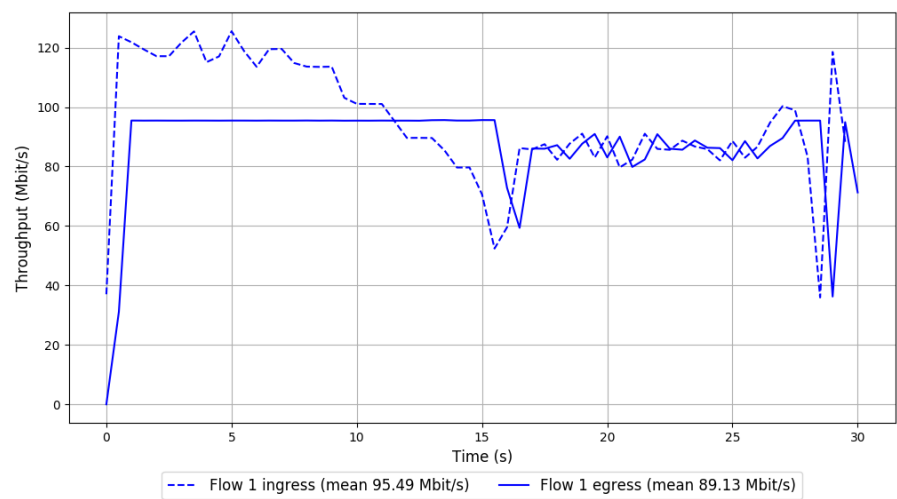
-- Flow 1:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 647.319 ms

Loss rate: 6.66%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-06-27 14:23:55

End at: 2019-06-27 14:24:25

Local clock offset: -6.491 ms

Remote clock offset: 0.624 ms

# Below is generated by plot.py at 2019-06-27 15:25:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 15.144 ms

Loss rate: 0.02%

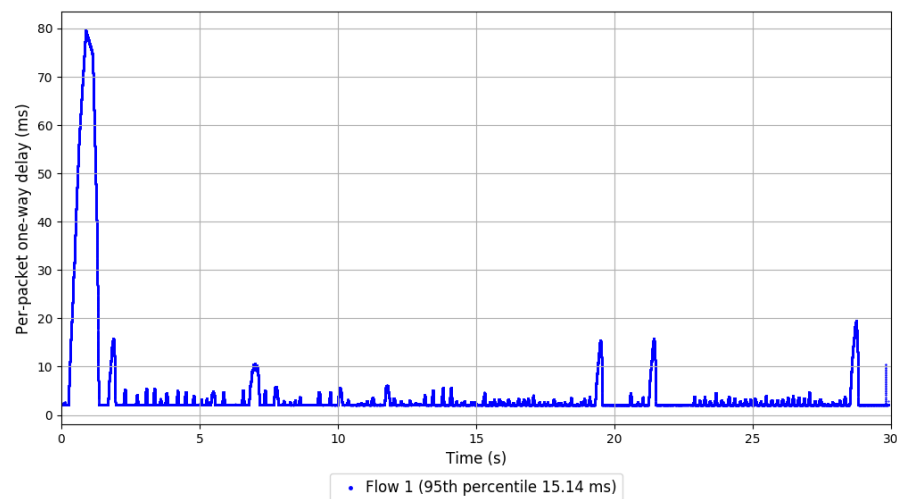
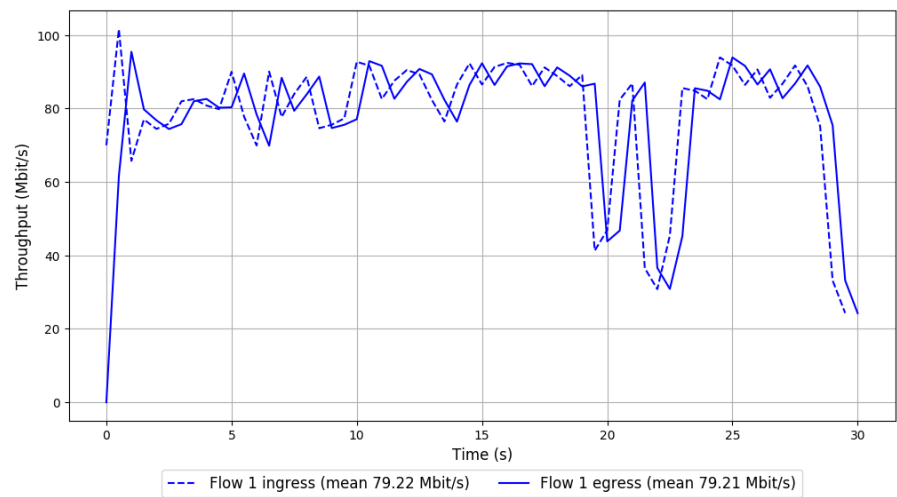
-- Flow 1:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 15.144 ms

Loss rate: 0.02%

Run 3: Report of PCC-Expr — Data Link





Run 4: Statistics of PCC-Expr

Start at: 2019-06-27 14:48:42

End at: 2019-06-27 14:49:12

Local clock offset: -6.342 ms

Remote clock offset: 0.806 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.76 Mbit/s

95th percentile per-packet one-way delay: 654.132 ms

Loss rate: 5.02%

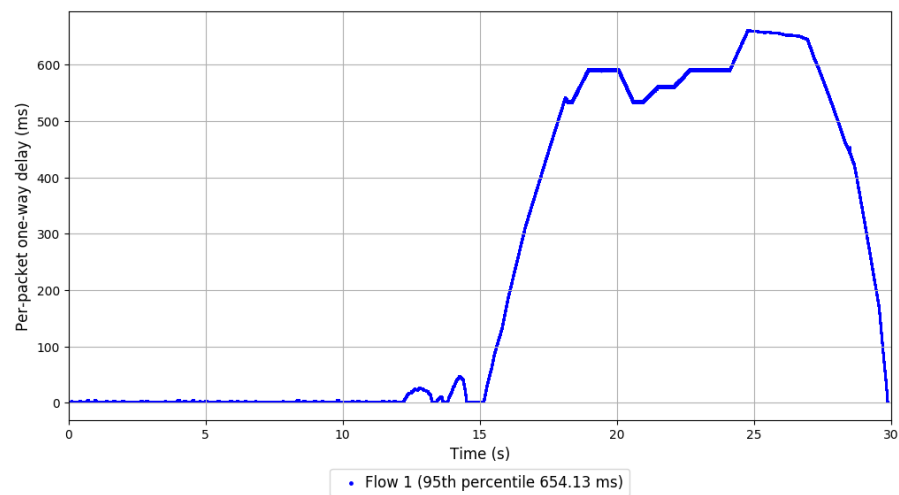
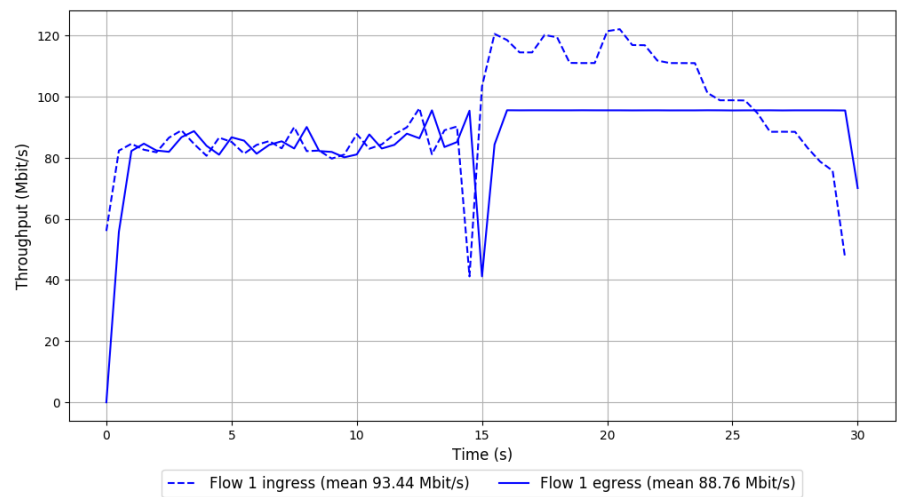
-- Flow 1:

Average throughput: 88.76 Mbit/s

95th percentile per-packet one-way delay: 654.132 ms

Loss rate: 5.02%

Run 4: Report of PCC-Expr — Data Link

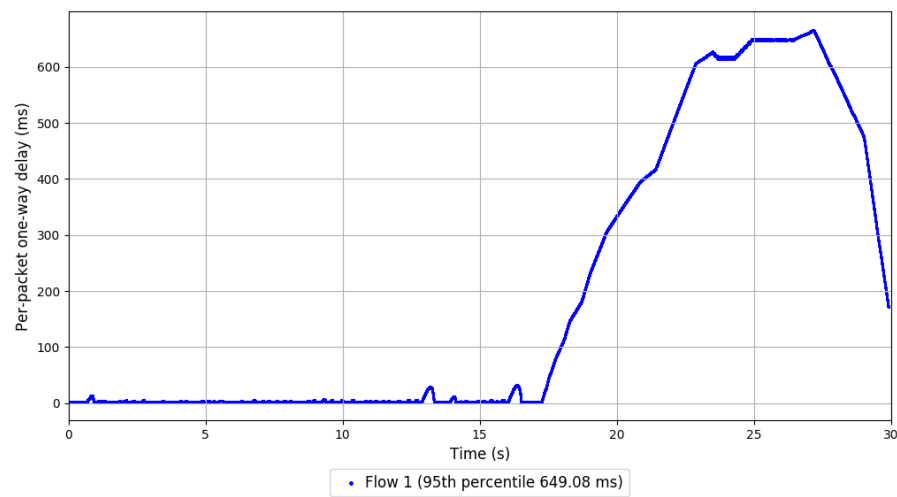
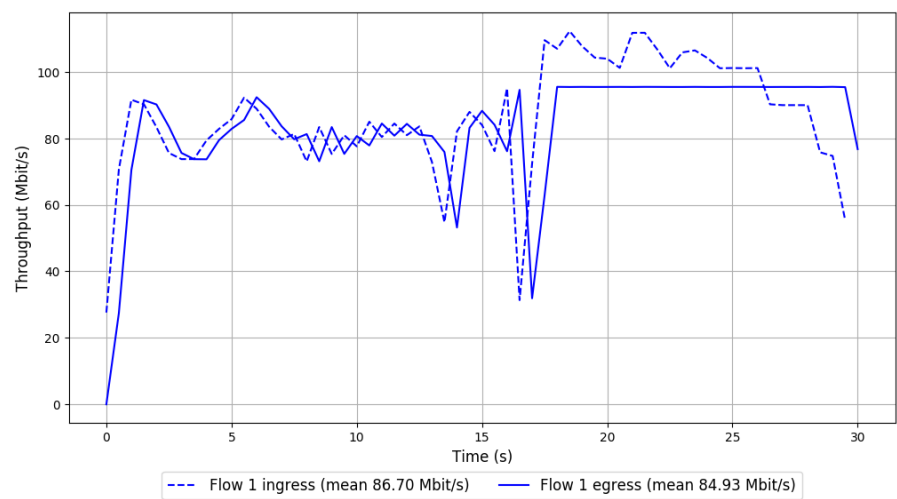


```
Run 5: Statistics of PCC-Expr

Start at: 2019-06-27 15:13:33
End at: 2019-06-27 15:14:03
Local clock offset: -6.59 ms
Remote clock offset: 0.83 ms

# Below is generated by plot.py at 2019-06-27 15:26:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 649.082 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 649.082 ms
Loss rate: 2.05%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-06-27 13:14:00

End at: 2019-06-27 13:14:30

Local clock offset: -6.3 ms

Remote clock offset: -0.261 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.60 Mbit/s

95th percentile per-packet one-way delay: 7.338 ms

Loss rate: 0.01%

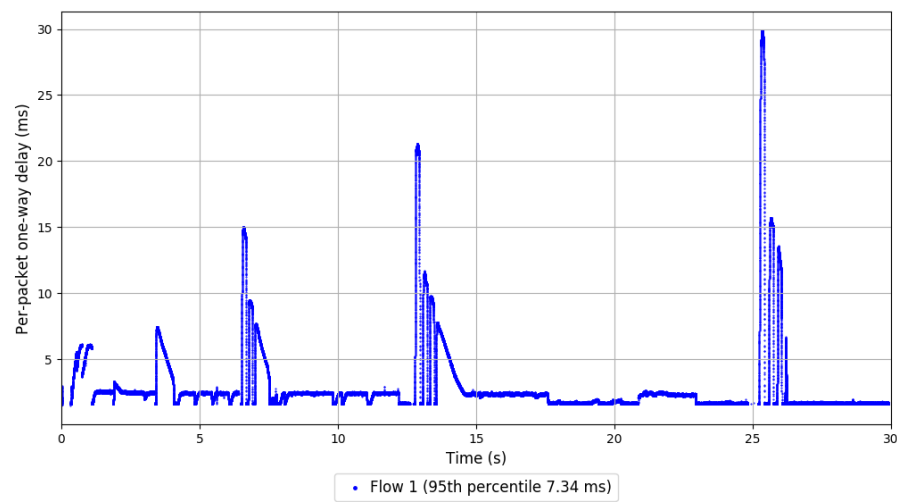
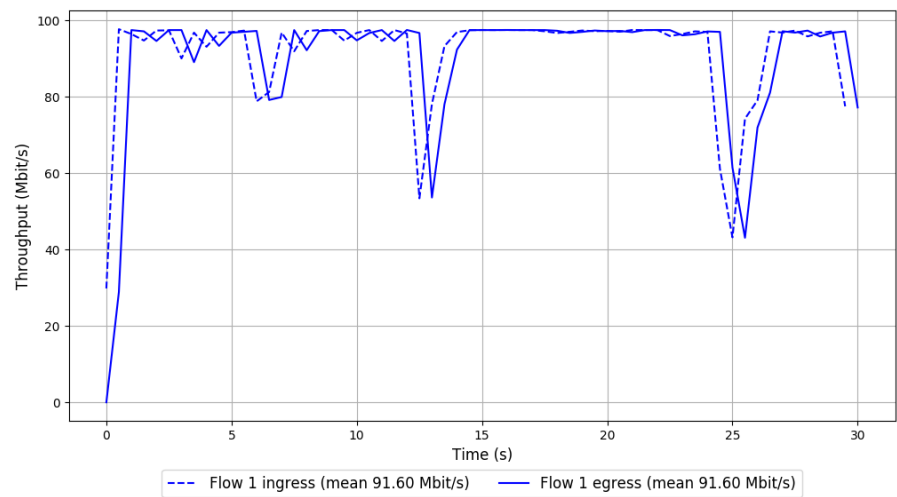
-- Flow 1:

Average throughput: 91.60 Mbit/s

95th percentile per-packet one-way delay: 7.338 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2019-06-27 13:39:20

Local clock offset: -5.538 ms

Remote clock offset: -0.124 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 9.059 ms

Loss rate: 0.02%

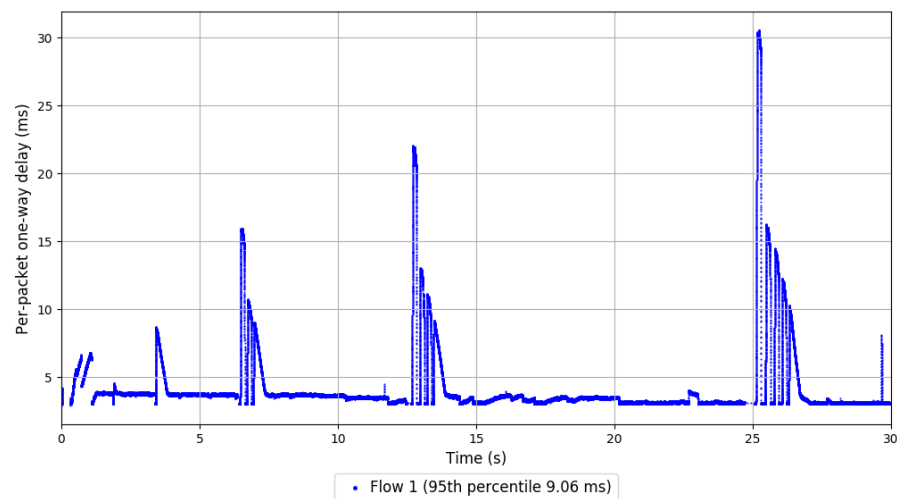
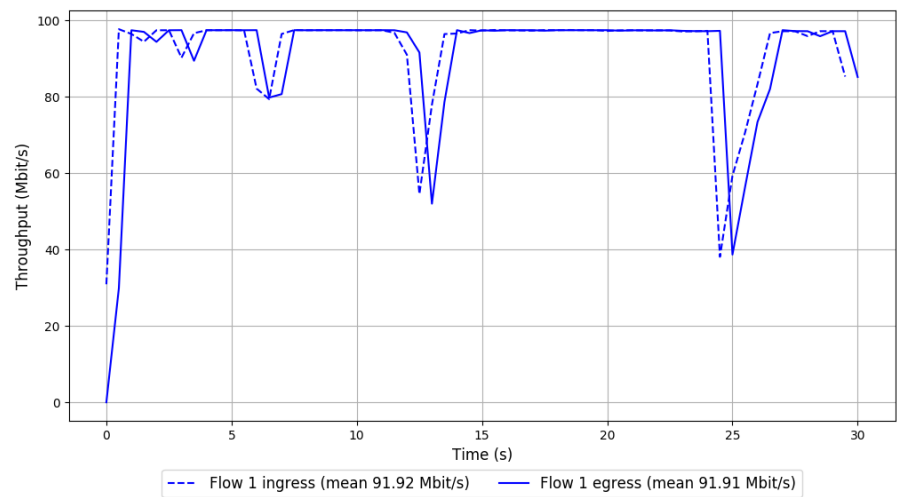
-- Flow 1:

Average throughput: 91.91 Mbit/s

95th percentile per-packet one-way delay: 9.059 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link





Run 3: Statistics of QUIC Cubic

Start at: 2019-06-27 14:03:37

End at: 2019-06-27 14:04:07

Local clock offset: -7.347 ms

Remote clock offset: 0.365 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 6.991 ms

Loss rate: 0.02%

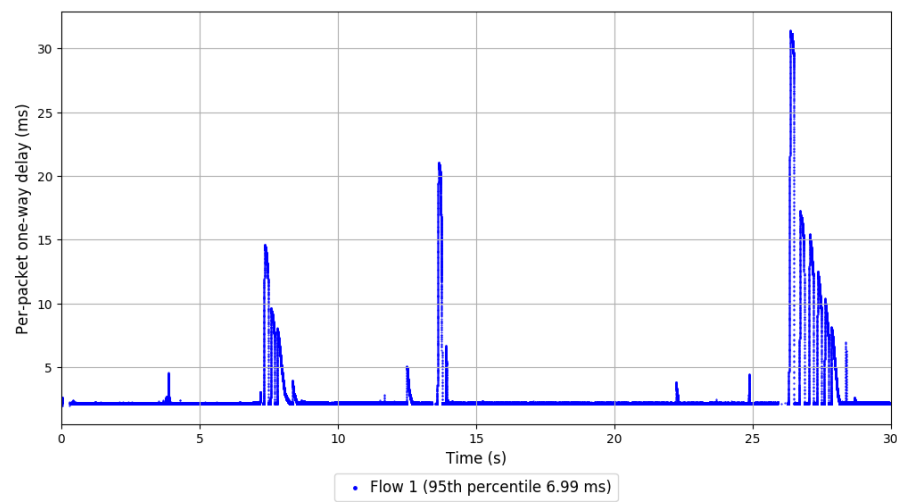
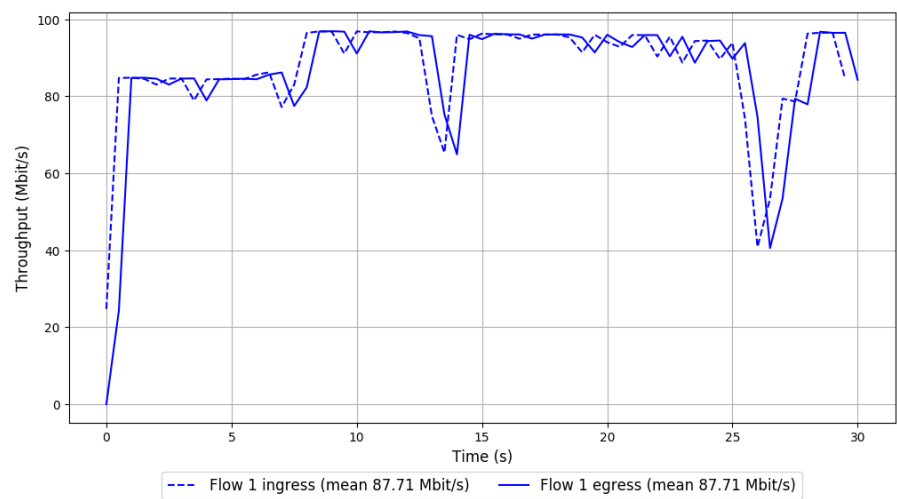
-- Flow 1:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 6.991 ms

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

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

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

Local clock offset: -6.204 ms

Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2019-06-27 15:26:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.51 Mbit/s

95th percentile per-packet one-way delay: 10.428 ms

Loss rate: 0.02%

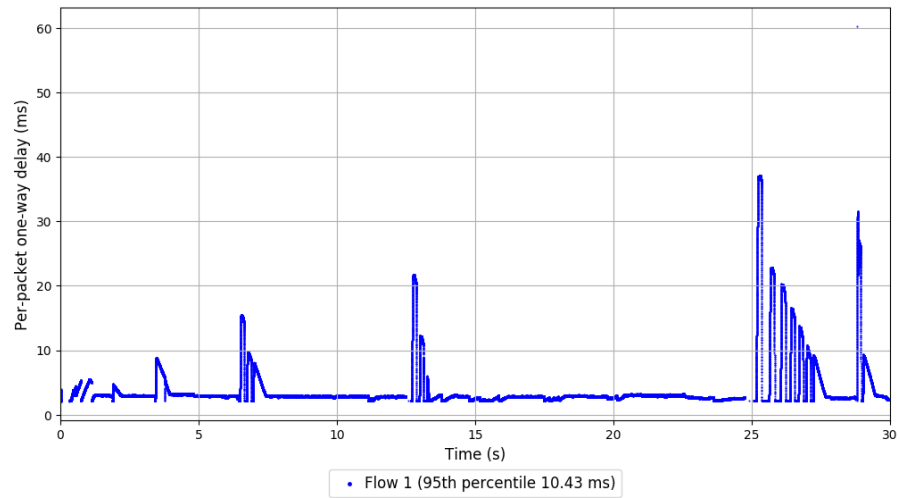
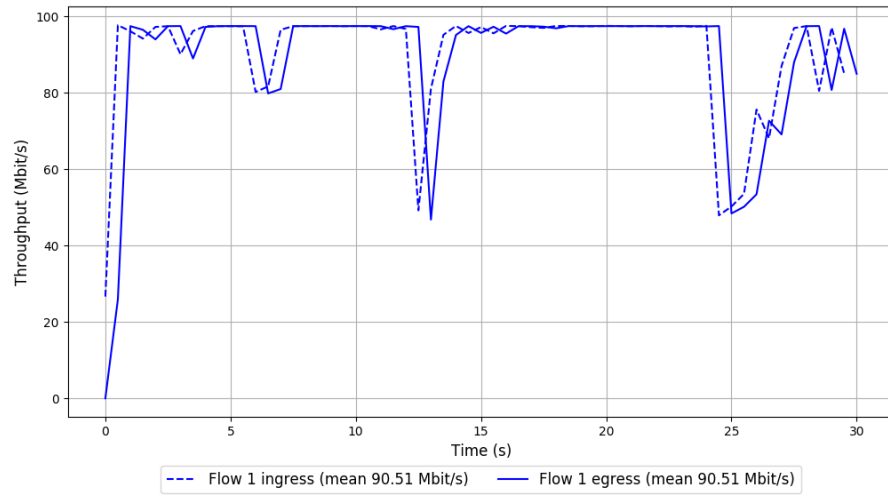
-- Flow 1:

Average throughput: 90.51 Mbit/s

95th percentile per-packet one-way delay: 10.428 ms

Loss rate: 0.02%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-06-27 14:53:12

End at: 2019-06-27 14:53:42

Local clock offset: -6.023 ms

Remote clock offset: 0.83 ms

# Below is generated by plot.py at 2019-06-27 15:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 8.233 ms

Loss rate: 0.02%

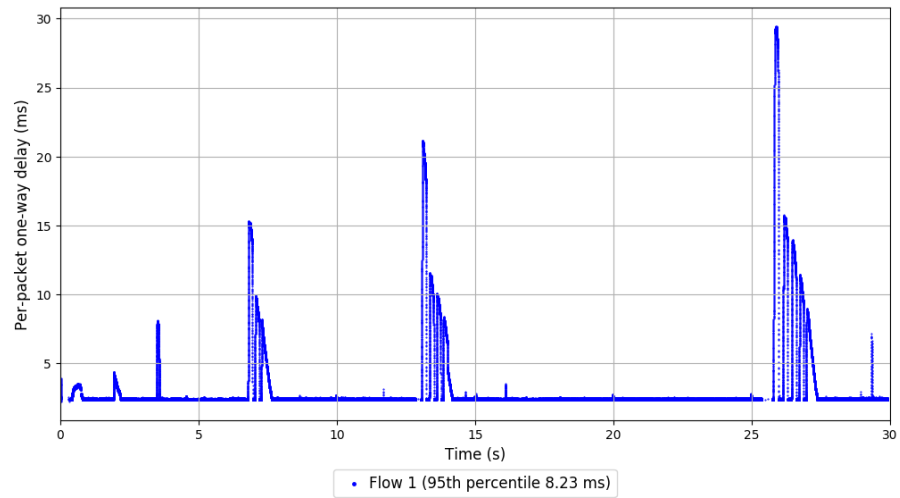
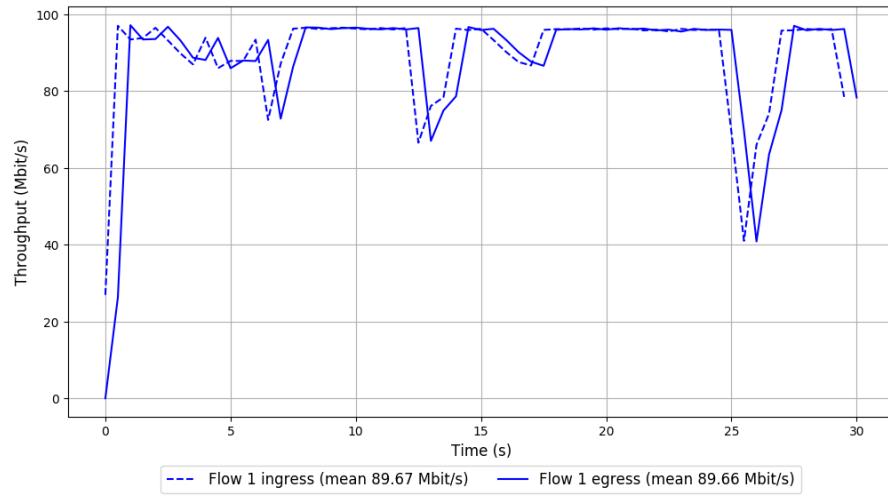
-- Flow 1:

Average throughput: 89.66 Mbit/s

95th percentile per-packet one-way delay: 8.233 ms

Loss rate: 0.02%

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

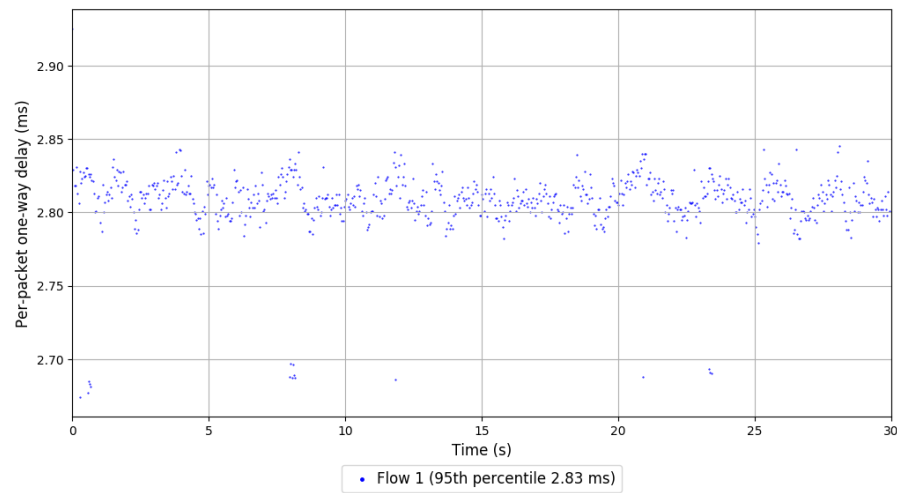
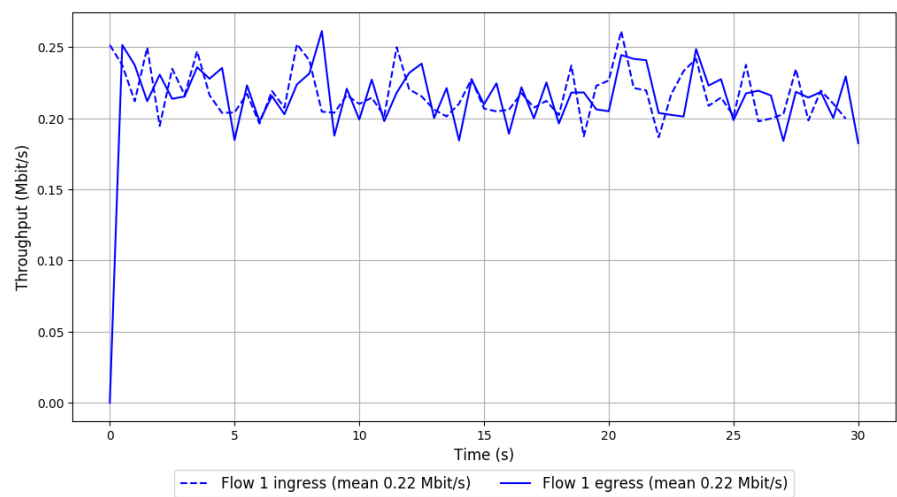


Run 1: Statistics of SCReAM

Start at: 2019-06-27 13:12:55  
End at: 2019-06-27 13:13:25  
Local clock offset: -5.563 ms  
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2019-06-27 15:26:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.829 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.829 ms  
Loss rate: 0.13%

Run 1: Report of SReAM — Data Link





Run 2: Statistics of SCReAM

Start at: 2019-06-27 13:37:46

End at: 2019-06-27 13:38:16

Local clock offset: -5.529 ms

Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2019-06-27 15:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.868 ms

Loss rate: 0.00%

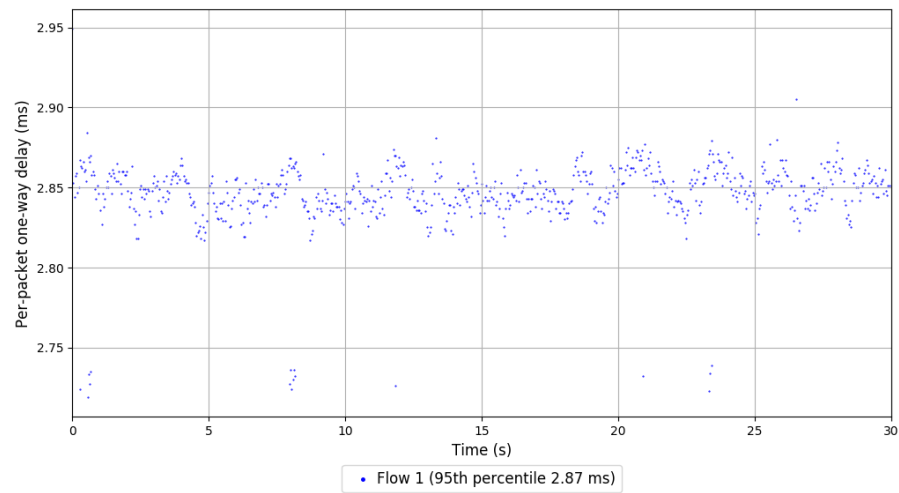
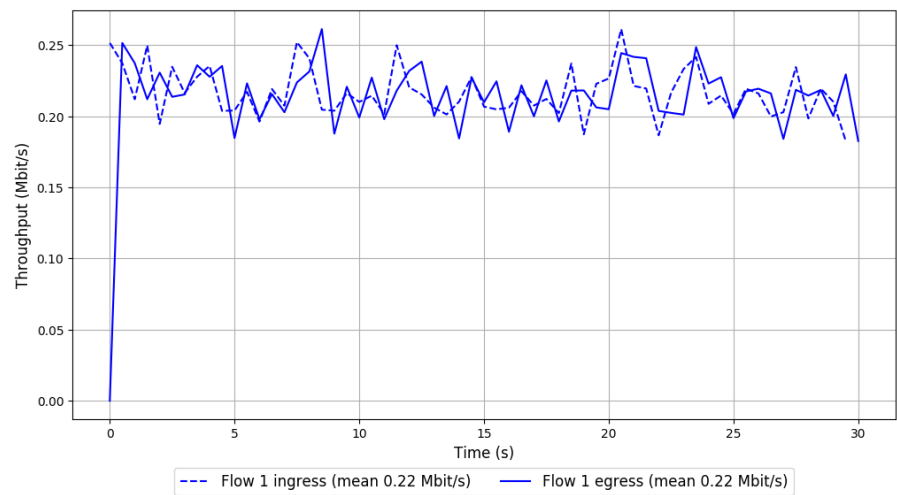
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.868 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

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

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

Local clock offset: -7.543 ms

Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2019-06-27 15:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.973 ms

Loss rate: 0.00%

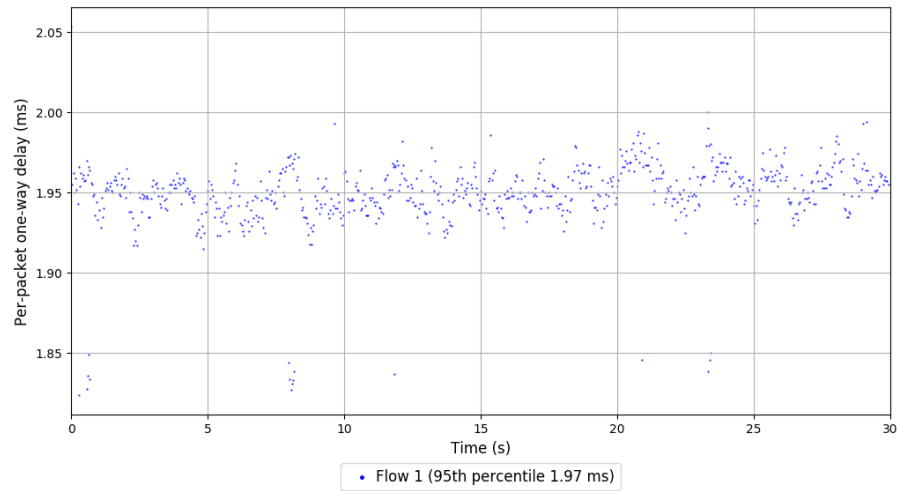
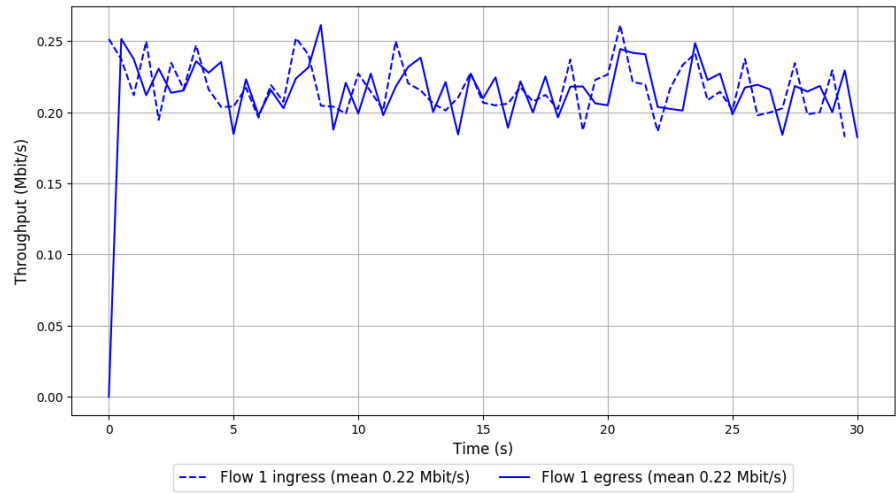
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.973 ms

Loss rate: 0.00%

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



Run 4: Statistics of SCReAM

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

End at: 2019-06-27 14:27:50

Local clock offset: -7.025 ms

Remote clock offset: 0.649 ms

# Below is generated by plot.py at 2019-06-27 15:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.399 ms

Loss rate: 0.00%

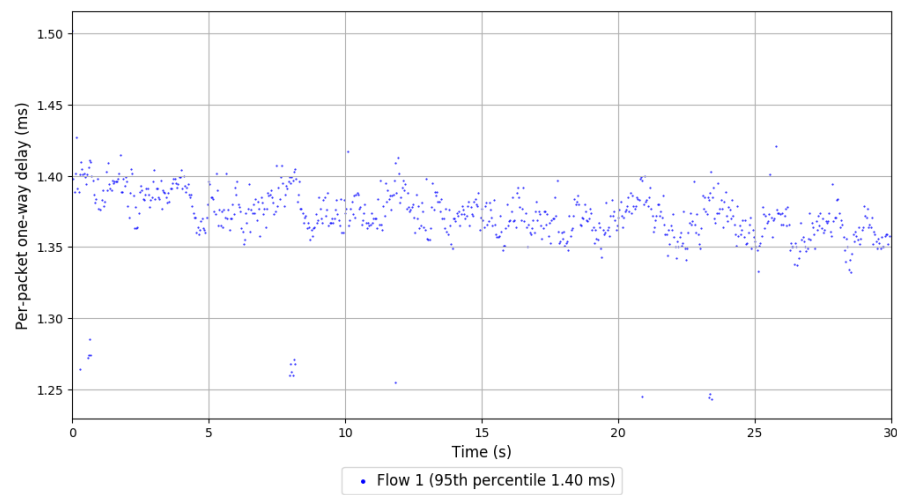
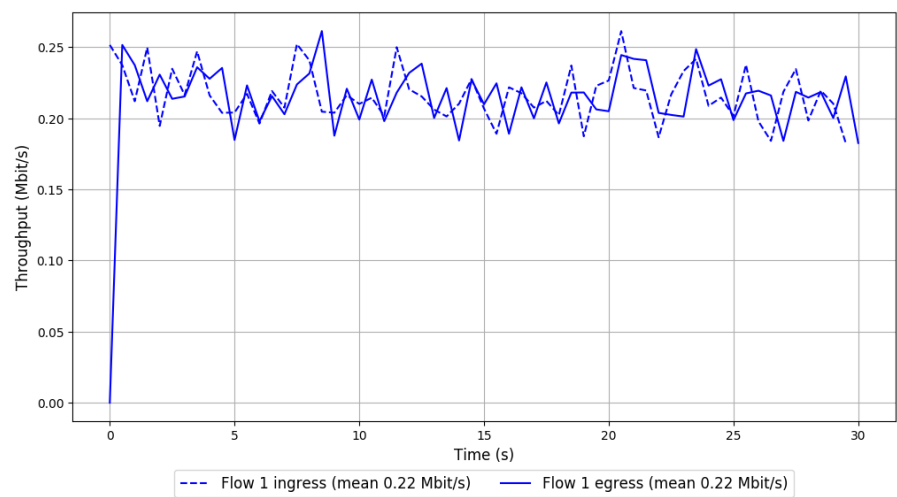
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.399 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-06-27 14:52:08

End at: 2019-06-27 14:52:38

Local clock offset: -6.648 ms

Remote clock offset: 0.8 ms

# Below is generated by plot.py at 2019-06-27 15:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.760 ms

Loss rate: 0.00%

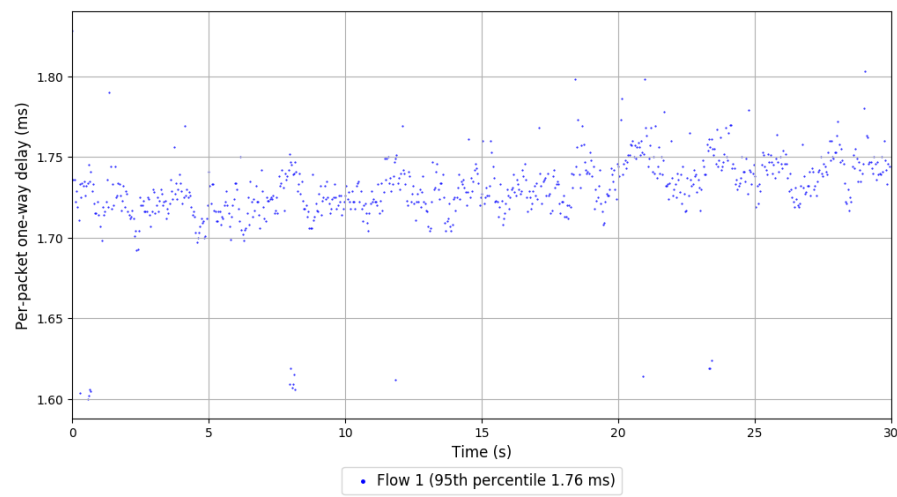
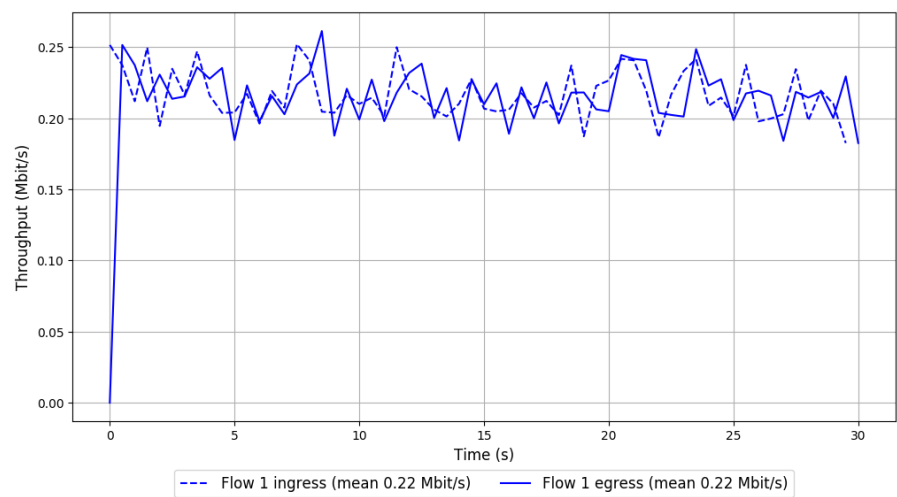
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.760 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



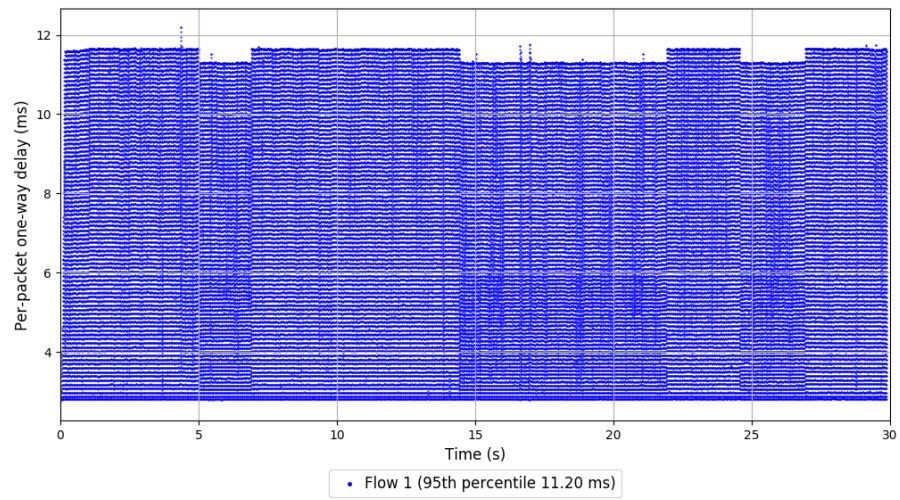
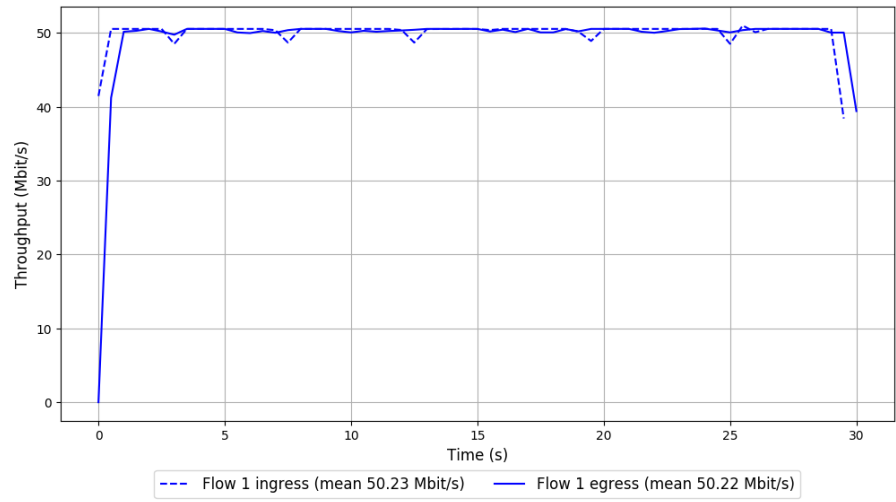


Run 1: Statistics of Sprout

Start at: 2019-06-27 13:28:41  
End at: 2019-06-27 13:29:11  
Local clock offset: -5.59 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-06-27 15:26:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.22 Mbit/s  
95th percentile per-packet one-way delay: 11.198 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.22 Mbit/s  
95th percentile per-packet one-way delay: 11.198 ms  
Loss rate: 0.00%

# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-06-27 13:53:26

End at: 2019-06-27 13:53:56

Local clock offset: -6.92 ms

Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2019-06-27 15:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.35 Mbit/s

95th percentile per-packet one-way delay: 10.122 ms

Loss rate: 0.02%

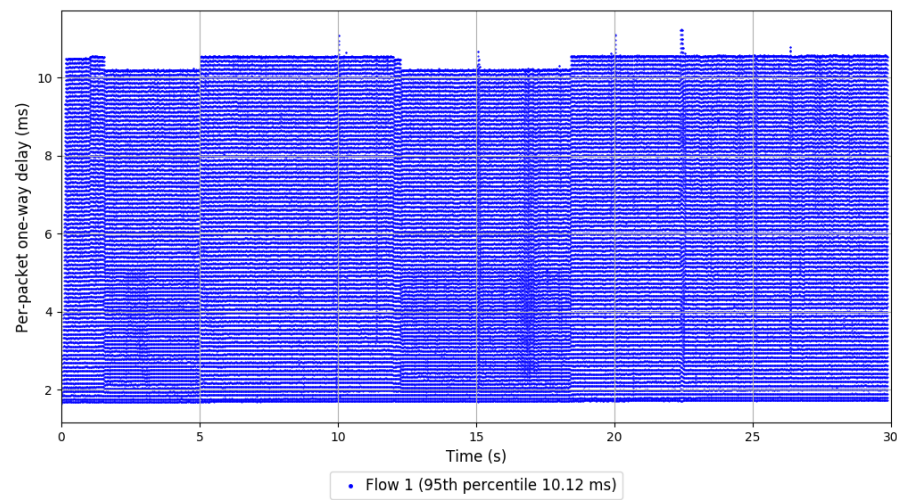
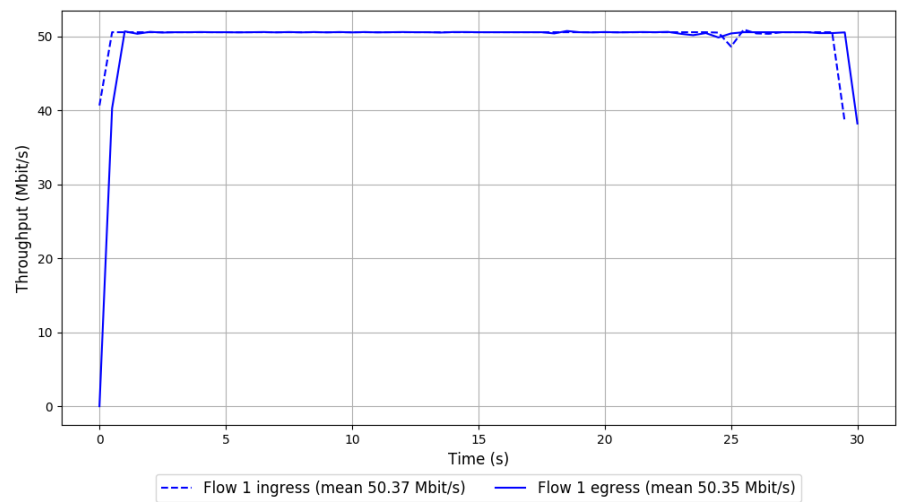
-- Flow 1:

Average throughput: 50.35 Mbit/s

95th percentile per-packet one-way delay: 10.122 ms

Loss rate: 0.02%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-06-27 14:18:15

End at: 2019-06-27 14:18:45

Local clock offset: -7.647 ms

Remote clock offset: 0.577 ms

# Below is generated by plot.py at 2019-06-27 15:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 10.009 ms

Loss rate: 0.00%

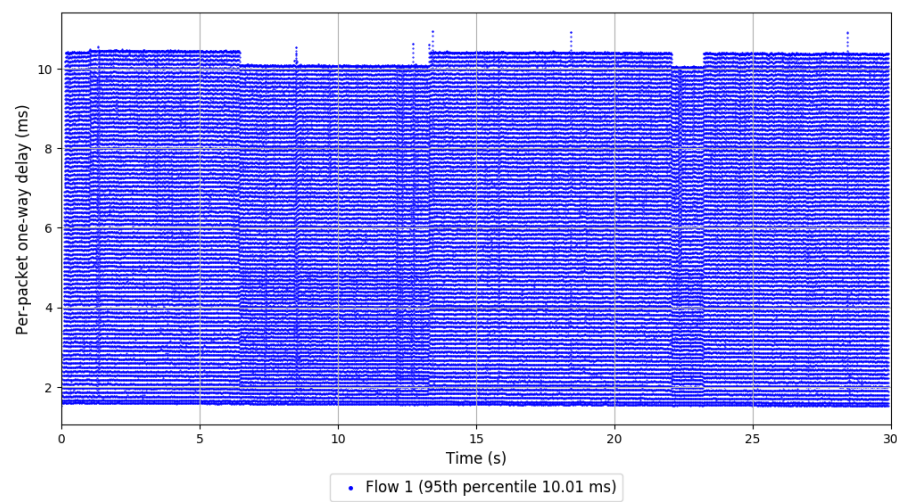
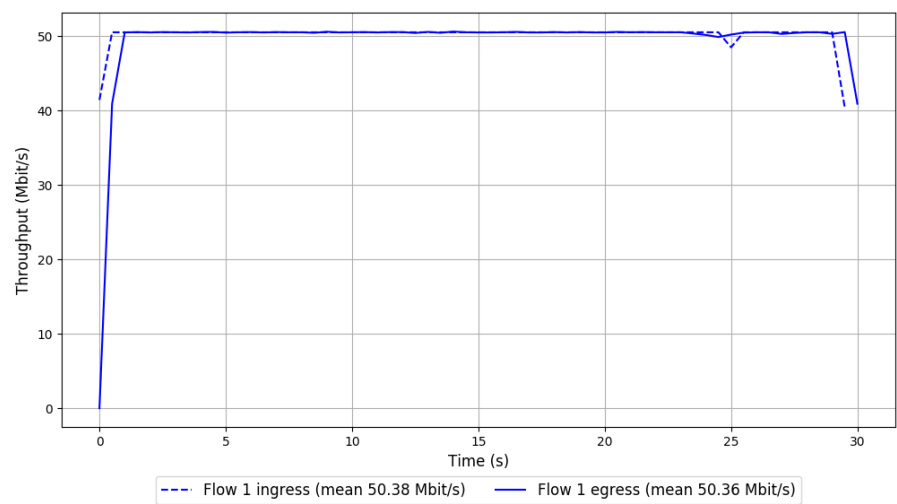
-- Flow 1:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 10.009 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-06-27 14:43:02

End at: 2019-06-27 14:43:32

Local clock offset: -6.58 ms

Remote clock offset: 0.677 ms

# Below is generated by plot.py at 2019-06-27 15:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 10.059 ms

Loss rate: 0.00%

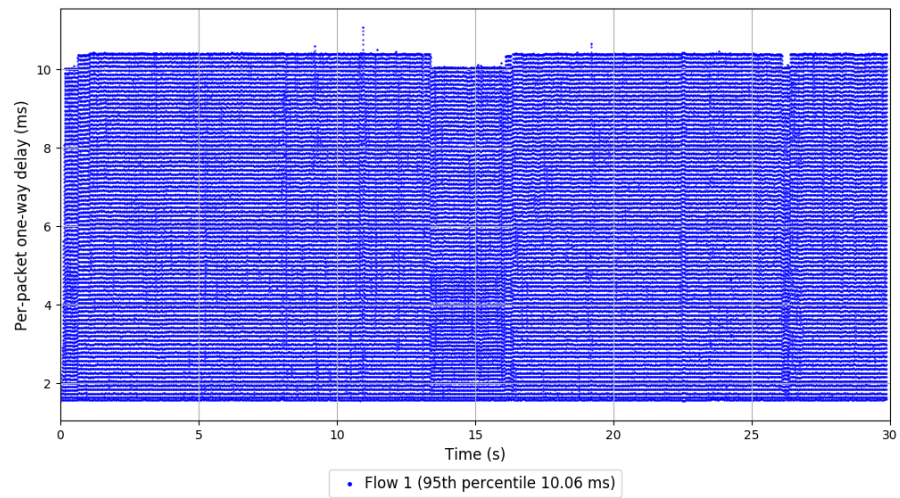
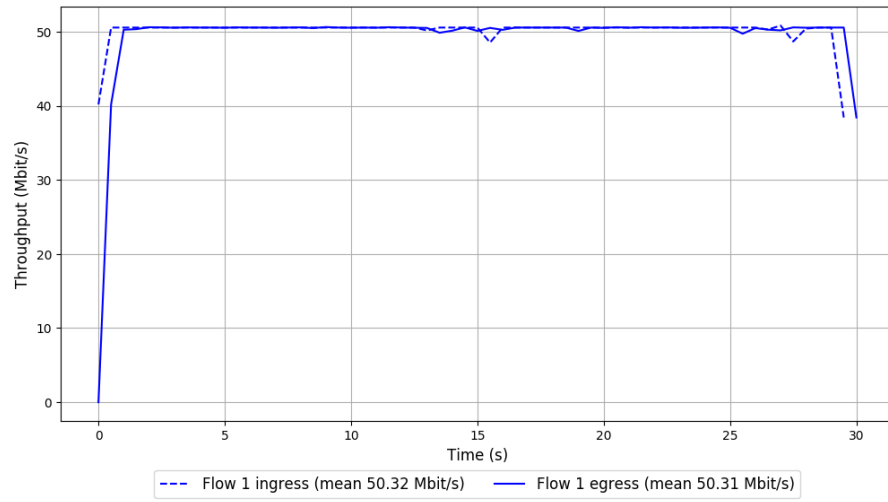
-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 10.059 ms

Loss rate: 0.00%

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





Run 5: Statistics of Sprout

Start at: 2019-06-27 15:07:52

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

Local clock offset: -7.239 ms

Remote clock offset: 0.868 ms

# Below is generated by plot.py at 2019-06-27 15:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 10.627 ms

Loss rate: 0.00%

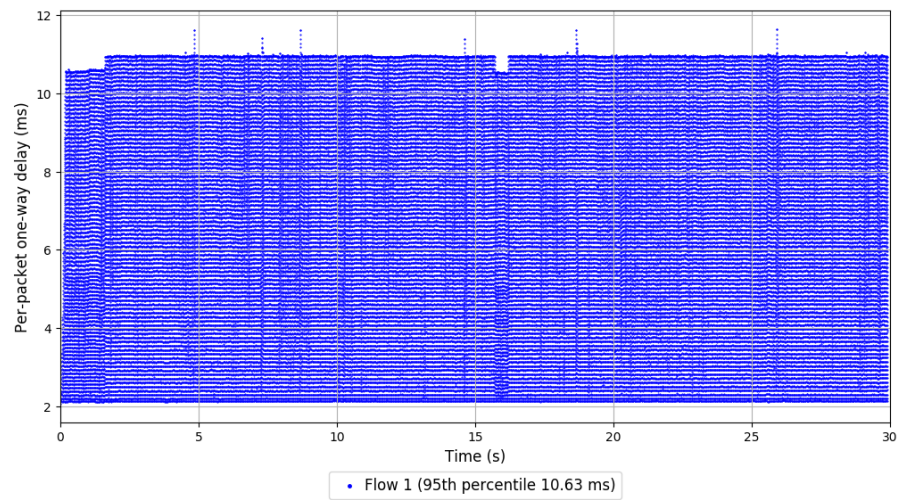
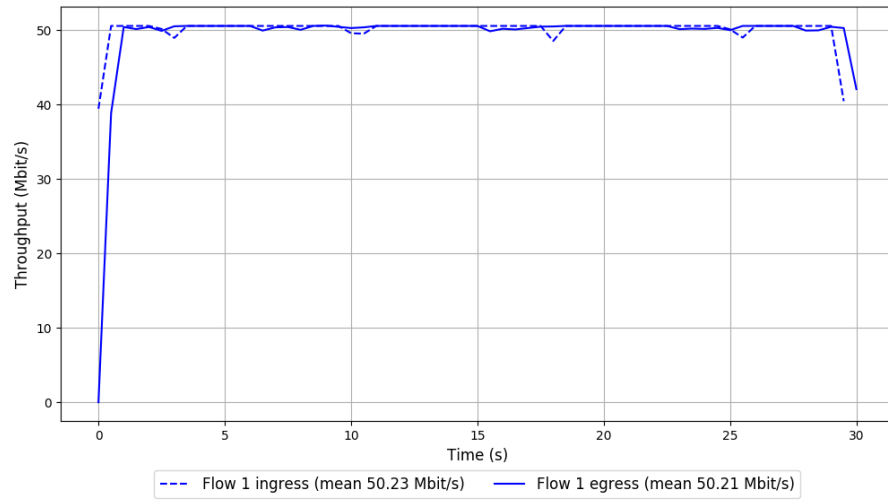
-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 10.627 ms

Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-06-27 13:17:25

End at: 2019-06-27 13:17:55

Local clock offset: -6.283 ms

Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2019-06-27 15:28:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 1.638 ms

Loss rate: 0.01%

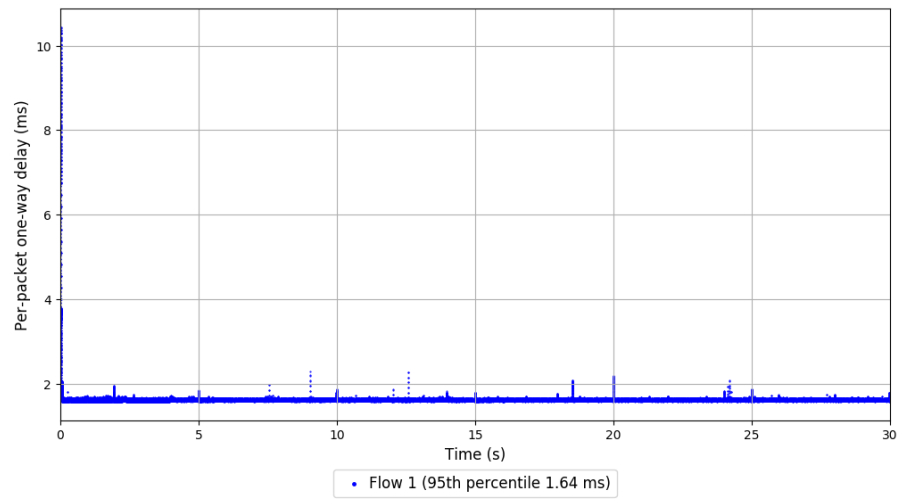
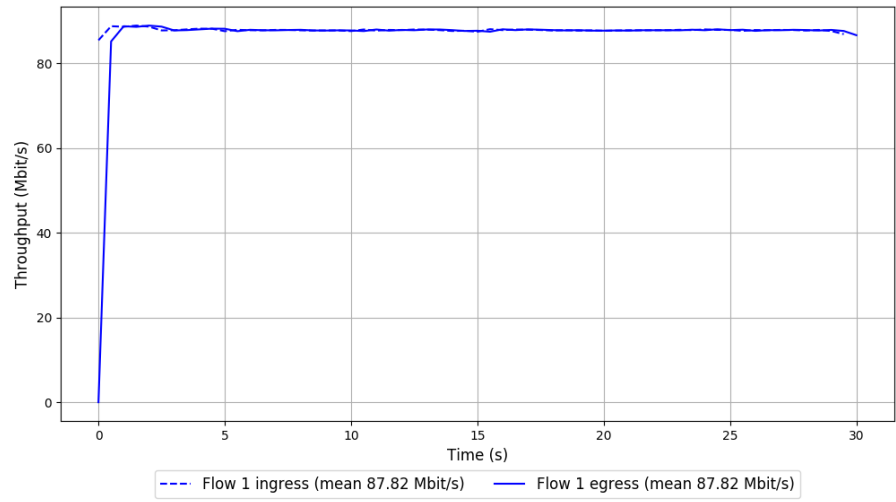
-- Flow 1:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 1.638 ms

Loss rate: 0.01%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-06-27 13:42:15

End at: 2019-06-27 13:42:45

Local clock offset: -5.546 ms

Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2019-06-27 15:28:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 2.850 ms

Loss rate: 0.01%

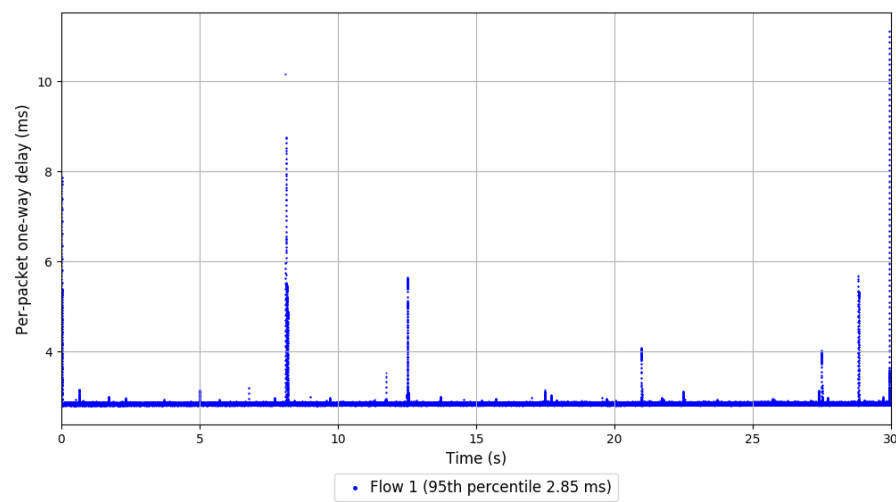
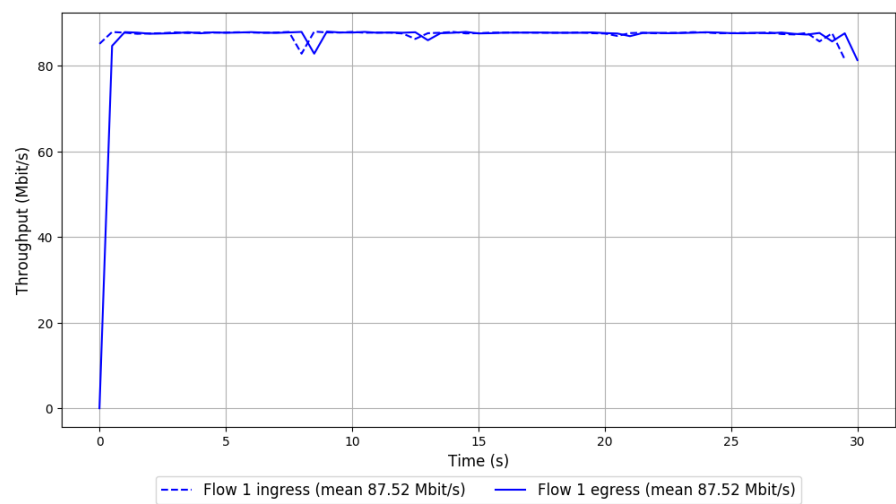
-- Flow 1:

Average throughput: 87.52 Mbit/s

95th percentile per-packet one-way delay: 2.850 ms

Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-06-27 14:07:00

End at: 2019-06-27 14:07:30

Local clock offset: -6.697 ms

Remote clock offset: 0.334 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 2.526 ms

Loss rate: 0.01%

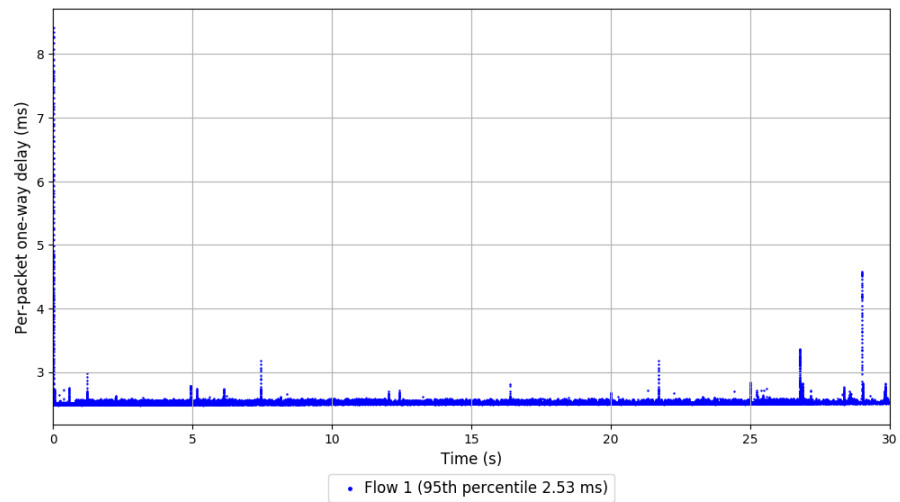
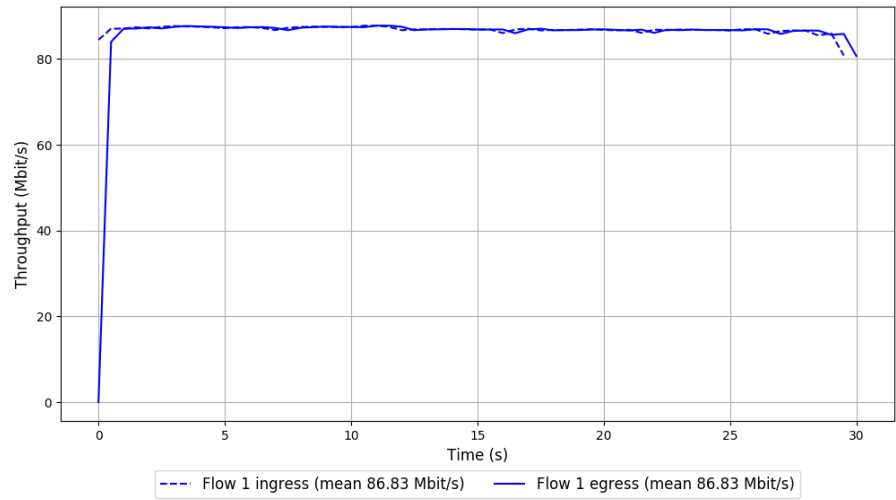
-- Flow 1:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 2.526 ms

Loss rate: 0.01%

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





Run 4: Statistics of TaoVA-100x

Start at: 2019-06-27 14:31:50

End at: 2019-06-27 14:32:20

Local clock offset: -6.818 ms

Remote clock offset: 0.56 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 1.523 ms

Loss rate: 0.01%

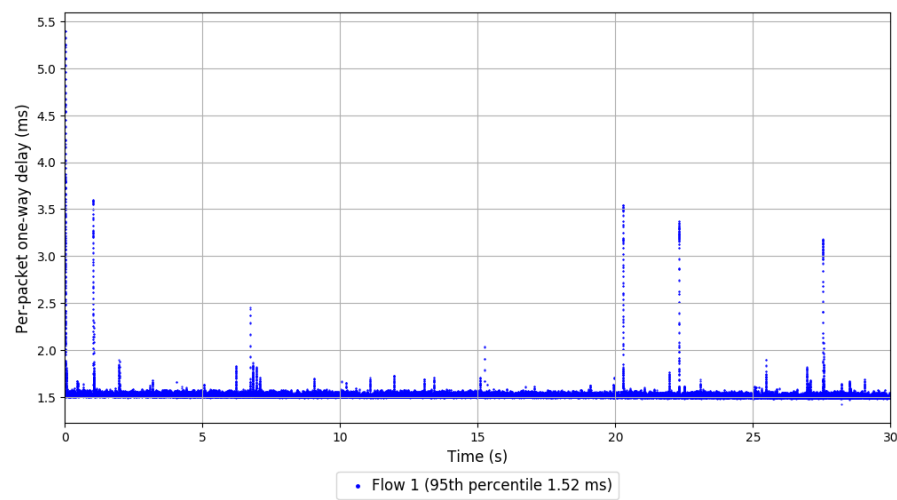
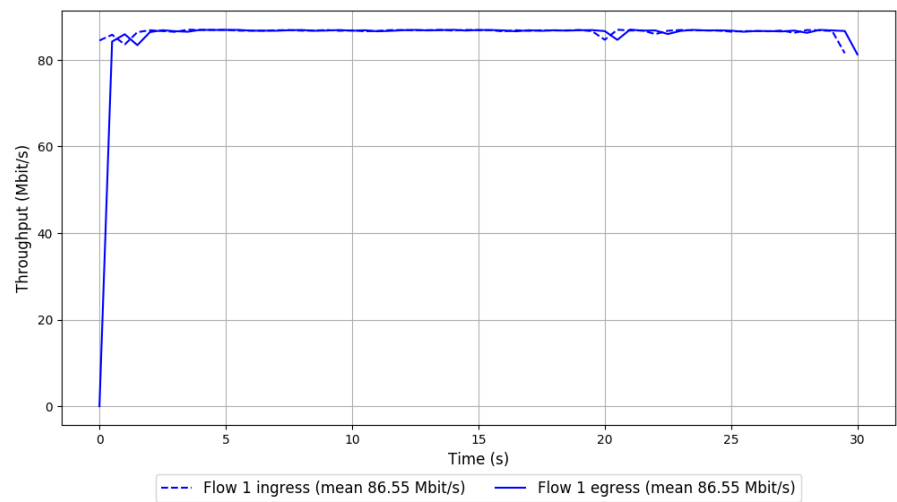
-- Flow 1:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 1.523 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-06-27 14:56:36

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

Local clock offset: -6.217 ms

Remote clock offset: 0.692 ms

# Below is generated by plot.py at 2019-06-27 15:28:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 2.522 ms

Loss rate: 0.01%

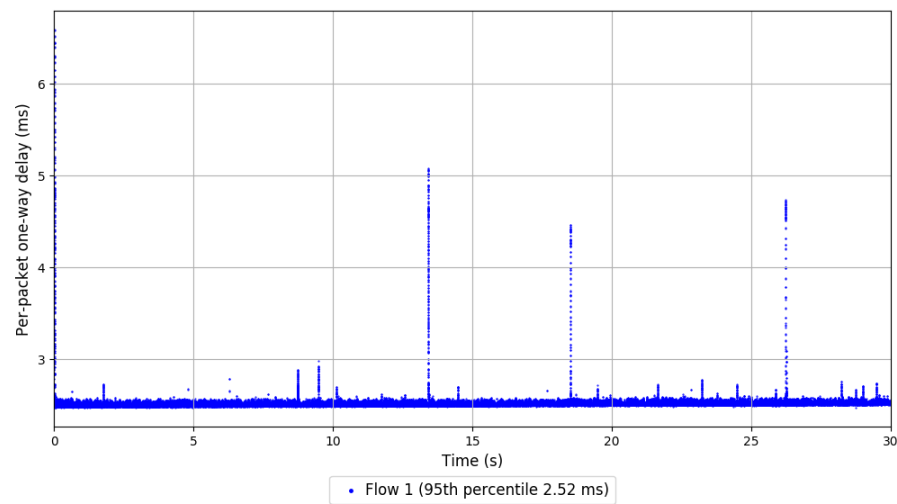
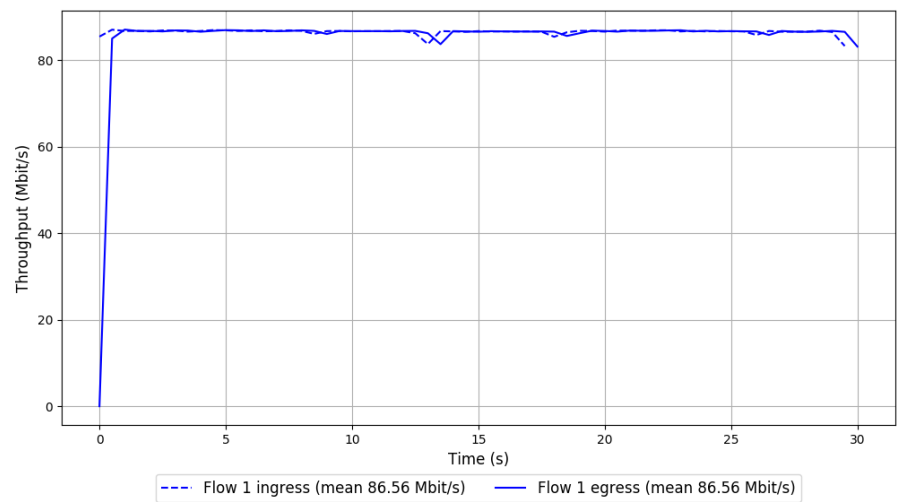
-- Flow 1:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 2.522 ms

Loss rate: 0.01%

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

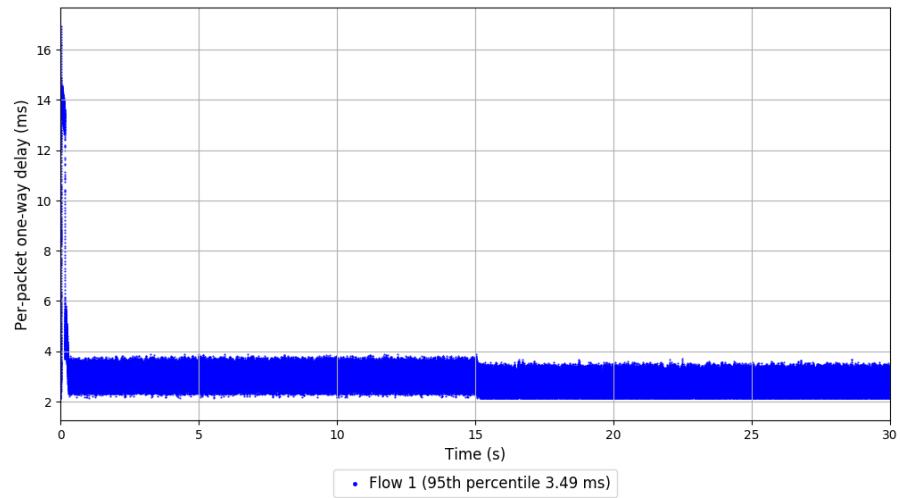
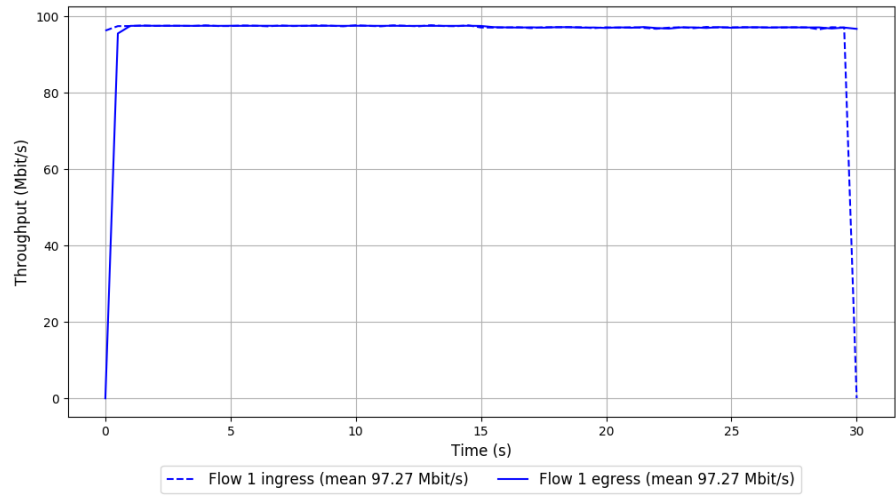


Run 1: Statistics of TCP Vegas

Start at: 2019-06-27 13:10:40  
End at: 2019-06-27 13:11:10  
Local clock offset: -6.315 ms  
Remote clock offset: -0.324 ms

# Below is generated by plot.py at 2019-06-27 15:28:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.27 Mbit/s  
95th percentile per-packet one-way delay: 3.488 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 97.27 Mbit/s  
95th percentile per-packet one-way delay: 3.488 ms  
Loss rate: 0.02%

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

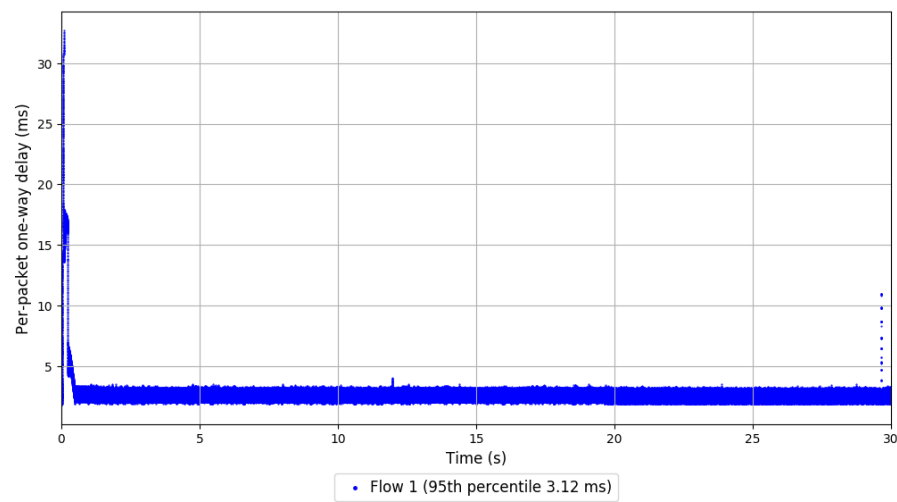
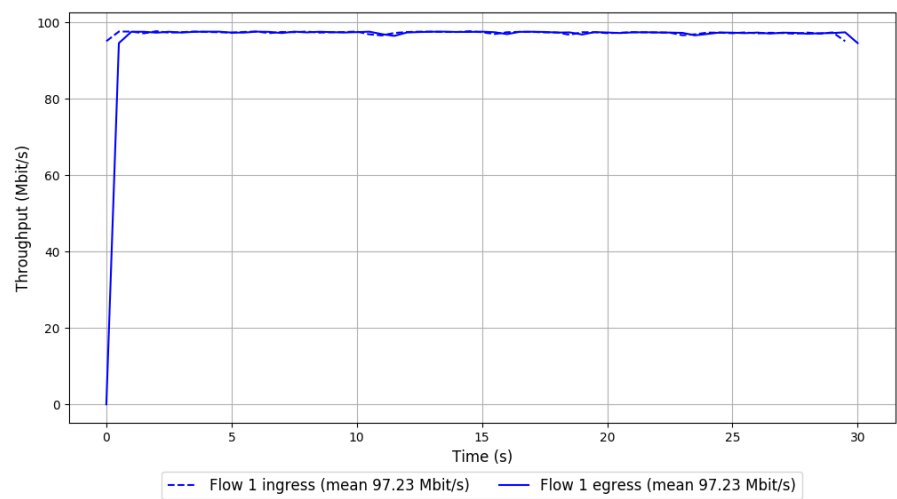


Run 2: Statistics of TCP Vegas

Start at: 2019-06-27 13:35:31  
End at: 2019-06-27 13:36:01  
Local clock offset: -6.573 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-06-27 15:28:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.23 Mbit/s  
95th percentile per-packet one-way delay: 3.118 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 97.23 Mbit/s  
95th percentile per-packet one-way delay: 3.118 ms  
Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link





Run 3: Statistics of TCP Vegas

Start at: 2019-06-27 14:00:17

End at: 2019-06-27 14:00:47

Local clock offset: -6.504 ms

Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2019-06-27 15:28:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.66 Mbit/s

95th percentile per-packet one-way delay: 3.657 ms

Loss rate: 0.01%

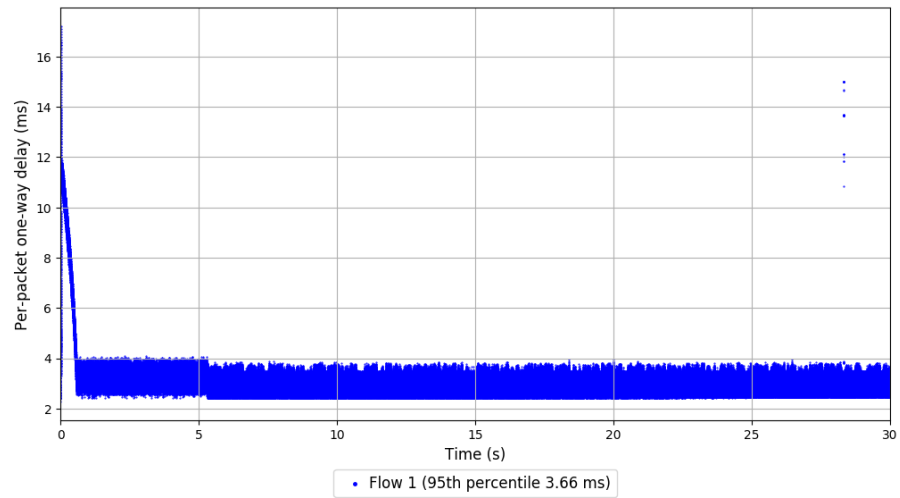
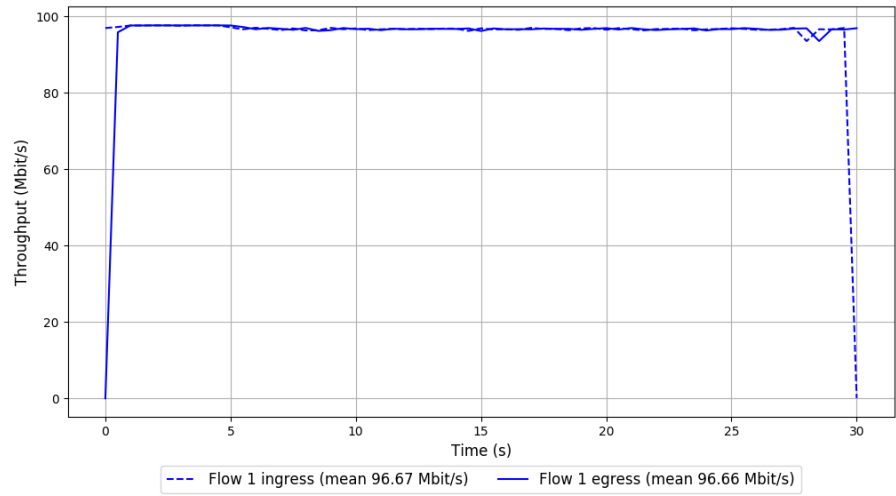
-- Flow 1:

Average throughput: 96.66 Mbit/s

95th percentile per-packet one-way delay: 3.657 ms

Loss rate: 0.01%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-06-27 14:25:05

End at: 2019-06-27 14:25:35

Local clock offset: -6.176 ms

Remote clock offset: 0.572 ms

# Below is generated by plot.py at 2019-06-27 15:28:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 3.588 ms

Loss rate: 0.01%

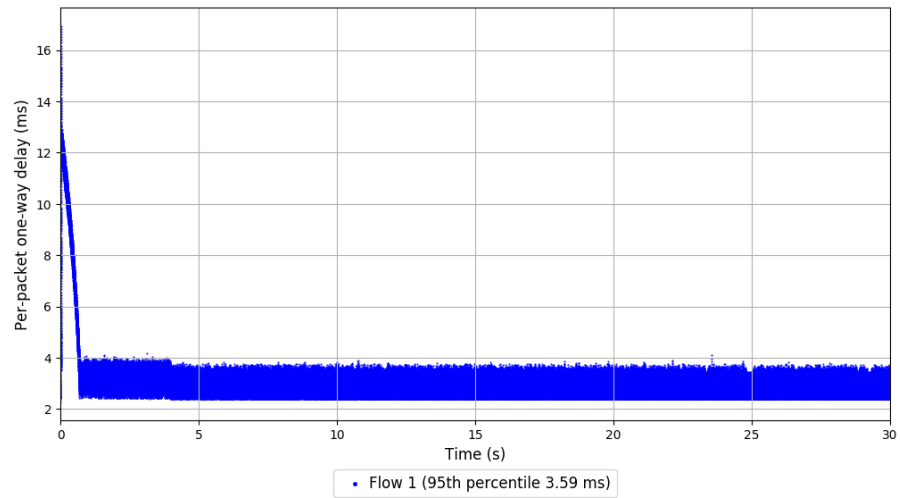
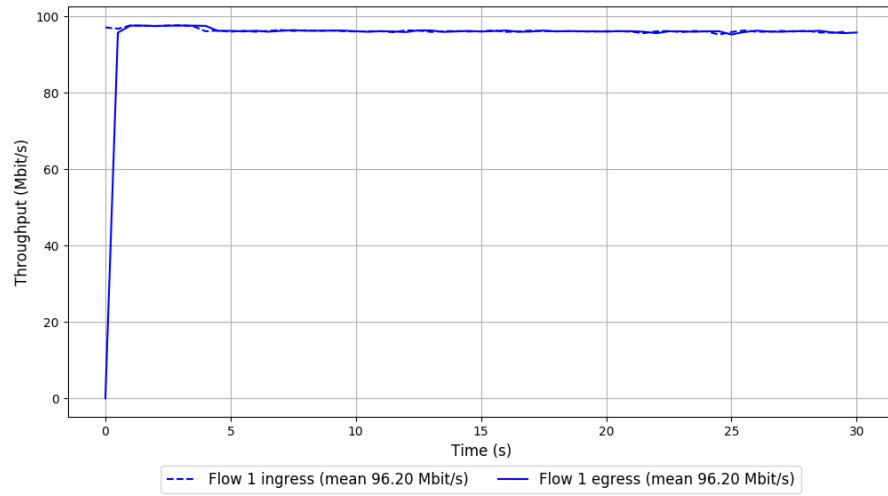
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 3.588 ms

Loss rate: 0.01%

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

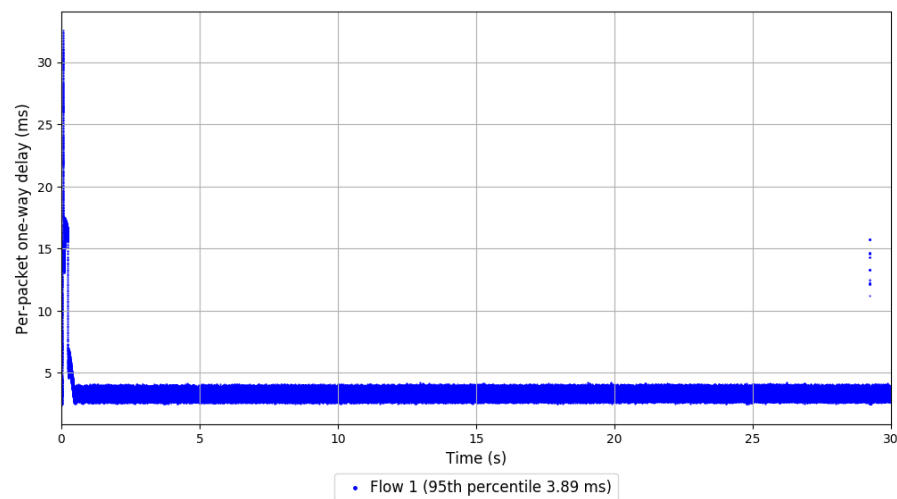
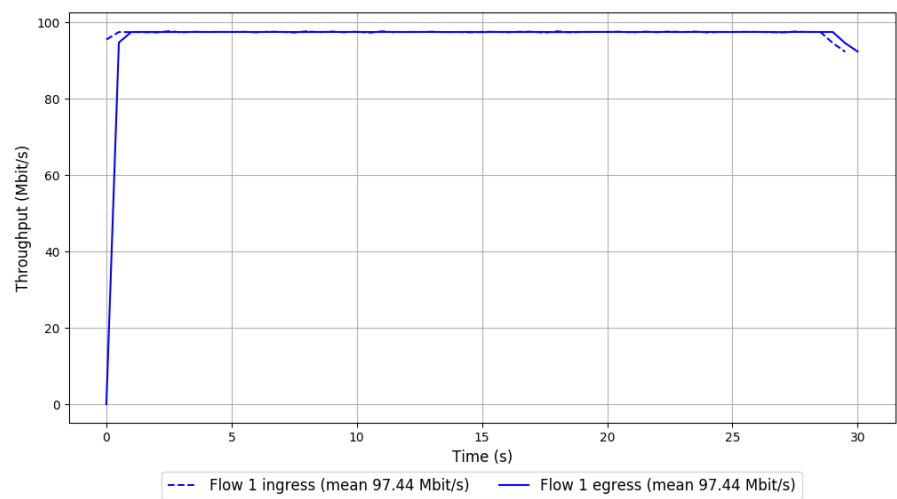


Run 5: Statistics of TCP Vegas

Start at: 2019-06-27 14:49:53  
End at: 2019-06-27 14:50:23  
Local clock offset: -5.718 ms  
Remote clock offset: 0.801 ms

# Below is generated by plot.py at 2019-06-27 15:28:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 3.893 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 3.893 ms  
Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link

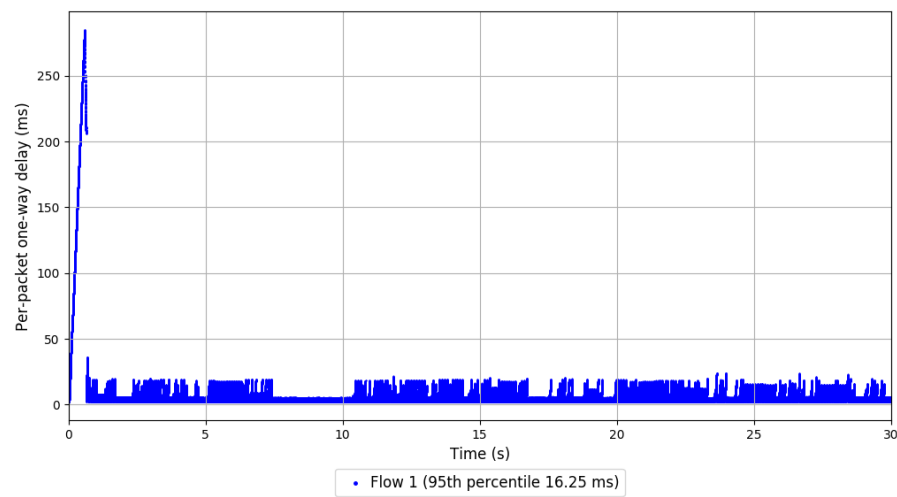
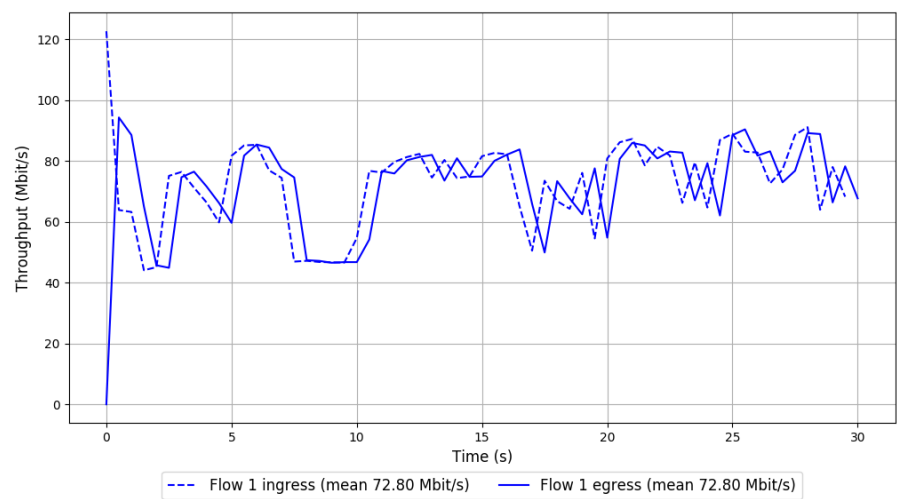


Run 1: Statistics of Verus

Start at: 2019-06-27 13:22:00  
End at: 2019-06-27 13:22:30  
Local clock offset: -6.288 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2019-06-27 15:28:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 72.80 Mbit/s  
95th percentile per-packet one-way delay: 16.248 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 72.80 Mbit/s  
95th percentile per-packet one-way delay: 16.248 ms  
Loss rate: 0.02%

Run 1: Report of Verus — Data Link





Run 2: Statistics of Verus

Start at: 2019-06-27 13:46:49

End at: 2019-06-27 13:47:19

Local clock offset: -6.49 ms

Remote clock offset: 0.179 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.59 Mbit/s

95th percentile per-packet one-way delay: 28.064 ms

Loss rate: 0.05%

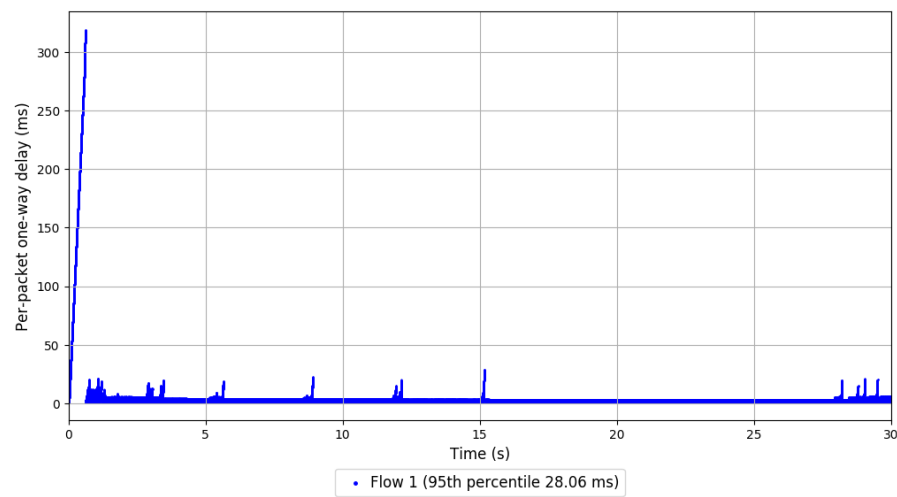
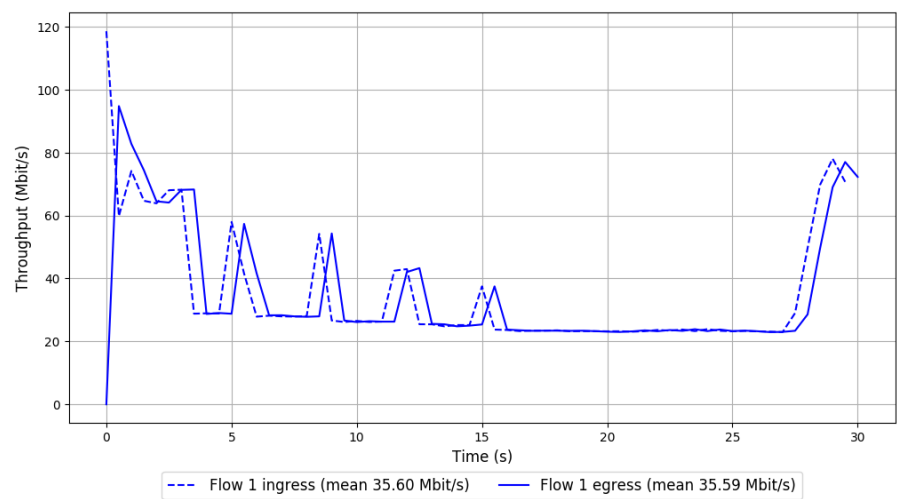
-- Flow 1:

Average throughput: 35.59 Mbit/s

95th percentile per-packet one-way delay: 28.064 ms

Loss rate: 0.05%

Run 2: Report of Verus — Data Link

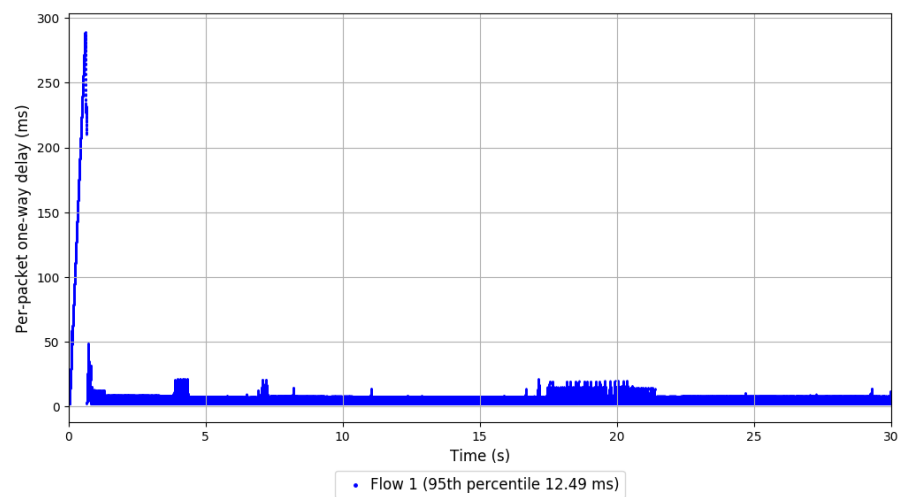
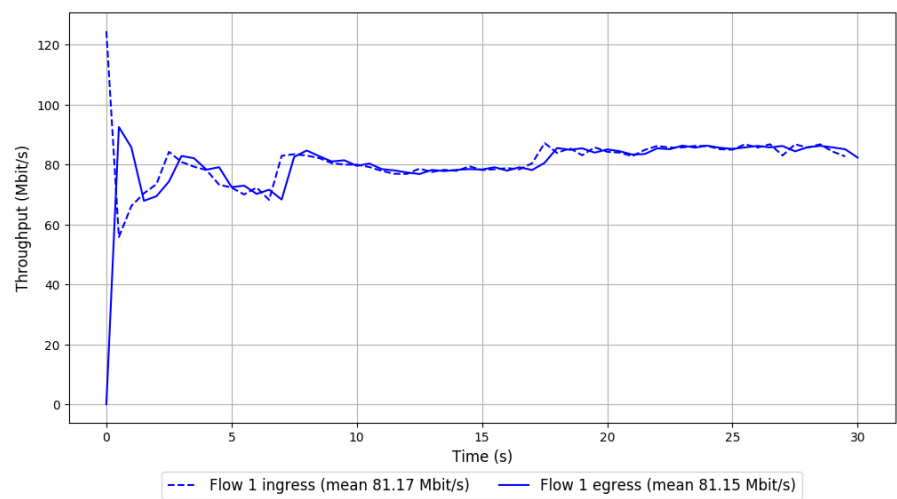


Run 3: Statistics of Verus

Start at: 2019-06-27 14:11:35  
End at: 2019-06-27 14:12:05  
Local clock offset: -7.557 ms  
Remote clock offset: 0.443 ms

# Below is generated by plot.py at 2019-06-27 15:29:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.15 Mbit/s  
95th percentile per-packet one-way delay: 12.493 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 81.15 Mbit/s  
95th percentile per-packet one-way delay: 12.493 ms  
Loss rate: 0.03%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-06-27 14:36:25

End at: 2019-06-27 14:36:55

Local clock offset: -5.798 ms

Remote clock offset: 0.625 ms

# Below is generated by plot.py at 2019-06-27 15:29:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 48.22 Mbit/s

95th percentile per-packet one-way delay: 17.388 ms

Loss rate: 0.01%

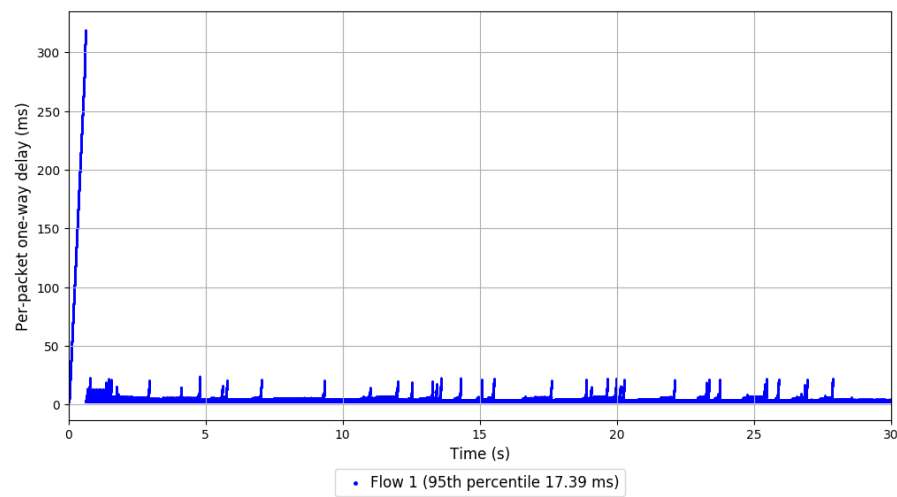
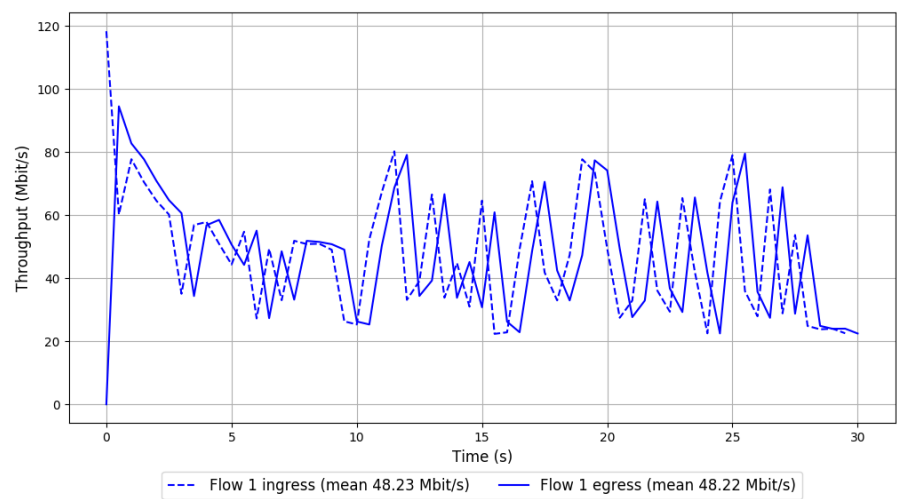
-- Flow 1:

Average throughput: 48.22 Mbit/s

95th percentile per-packet one-way delay: 17.388 ms

Loss rate: 0.01%

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: -7.132 ms

Remote clock offset: 0.78 ms

# Below is generated by plot.py at 2019-06-27 15:29:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.15 Mbit/s

95th percentile per-packet one-way delay: 12.216 ms

Loss rate: 0.03%

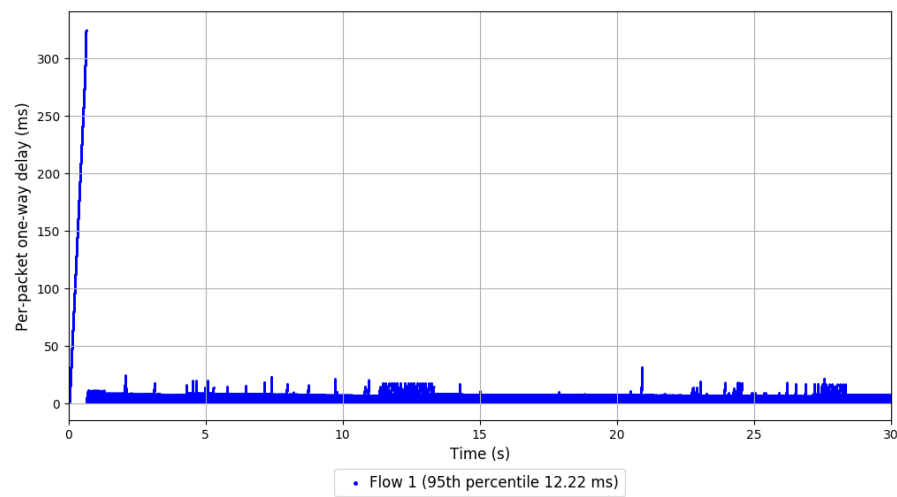
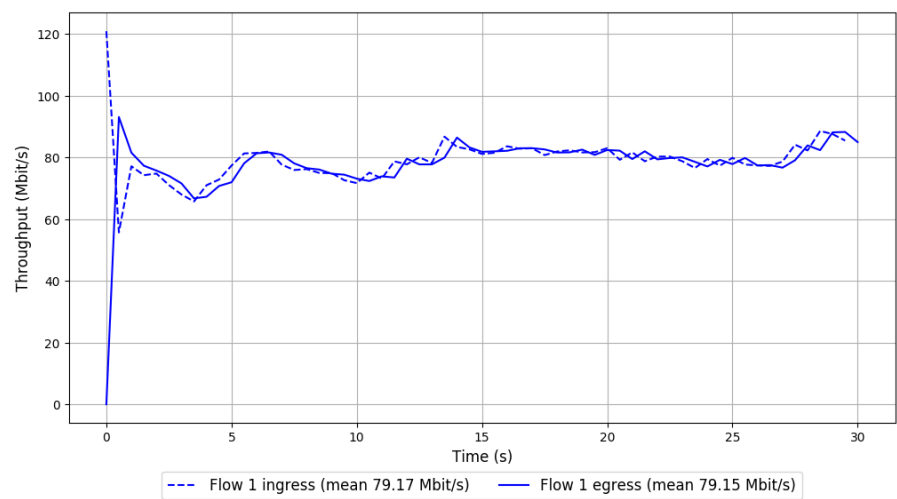
-- Flow 1:

Average throughput: 79.15 Mbit/s

95th percentile per-packet one-way delay: 12.216 ms

Loss rate: 0.03%

Run 5: Report of Verus — Data Link



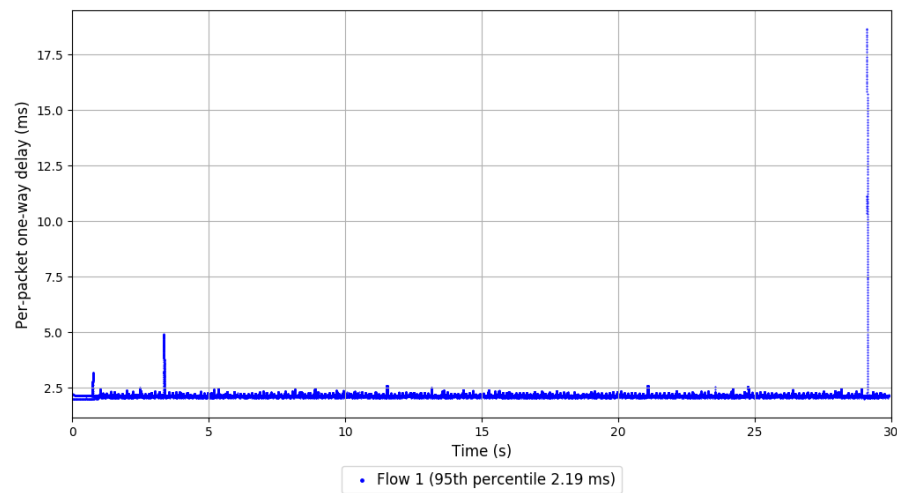
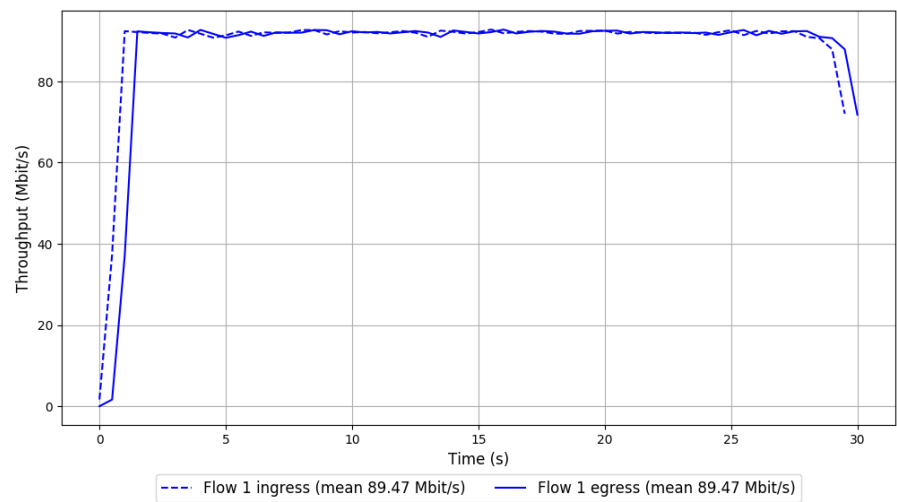


Run 1: Statistics of PCC-Vivace

Start at: 2019-06-27 13:20:51  
End at: 2019-06-27 13:21:21  
Local clock offset: -5.775 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-06-27 15:29:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.47 Mbit/s  
95th percentile per-packet one-way delay: 2.185 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 89.47 Mbit/s  
95th percentile per-packet one-way delay: 2.185 ms  
Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-06-27 13:45:40

End at: 2019-06-27 13:46:10

Local clock offset: -6.485 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2019-06-27 15:29:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.63 Mbit/s

95th percentile per-packet one-way delay: 1.559 ms

Loss rate: 0.01%

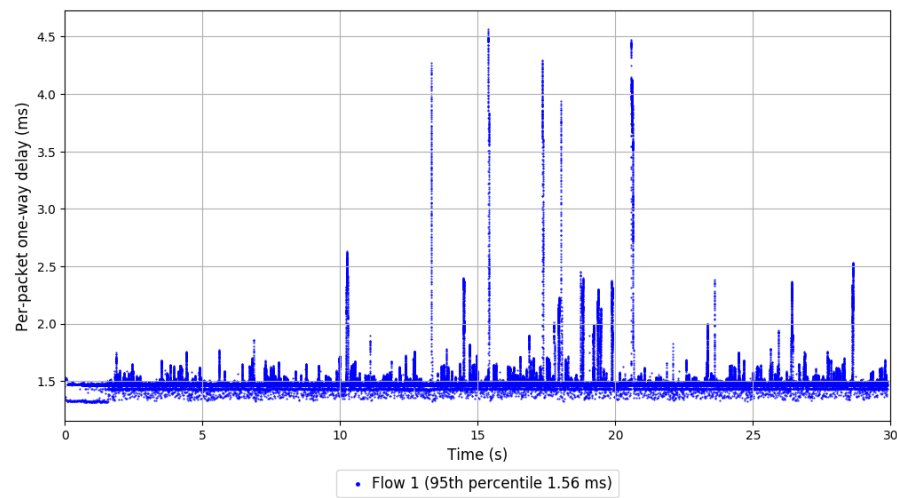
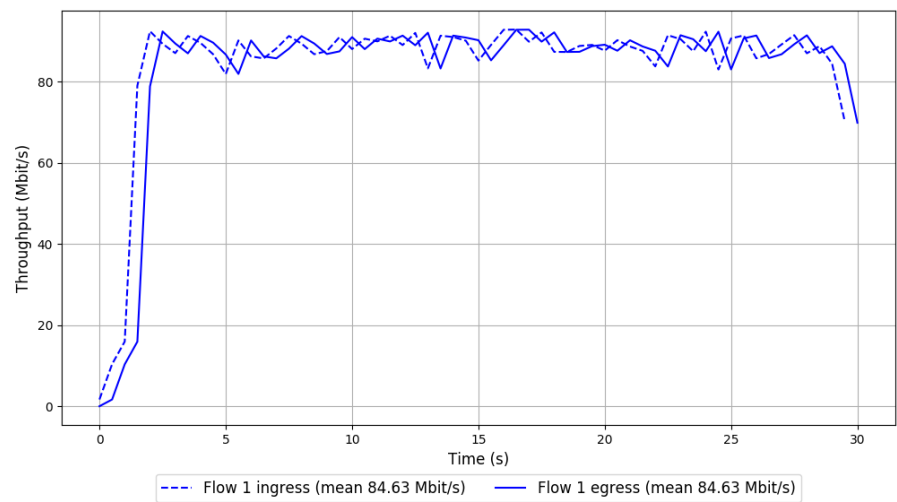
-- Flow 1:

Average throughput: 84.63 Mbit/s

95th percentile per-packet one-way delay: 1.559 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-06-27 14:10:26

End at: 2019-06-27 14:10:56

Local clock offset: -7.815 ms

Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2019-06-27 15:29:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 1.612 ms

Loss rate: 0.01%

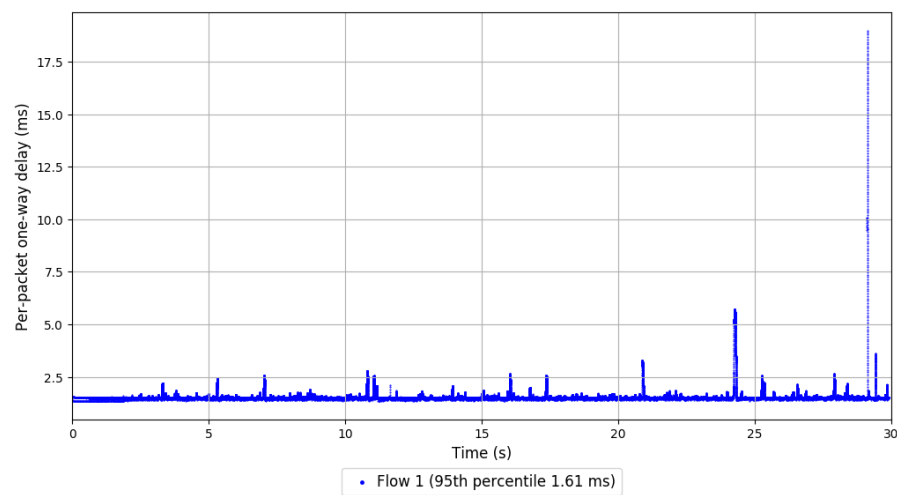
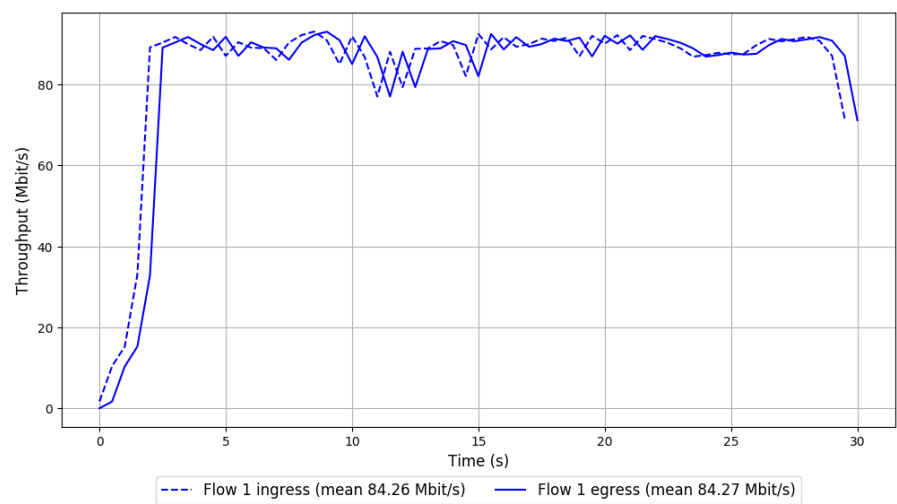
-- Flow 1:

Average throughput: 84.27 Mbit/s

95th percentile per-packet one-way delay: 1.612 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-06-27 14:35:15

End at: 2019-06-27 14:35:45

Local clock offset: -5.729 ms

Remote clock offset: 0.739 ms

# Below is generated by plot.py at 2019-06-27 15:29:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 2.452 ms

Loss rate: 0.01%

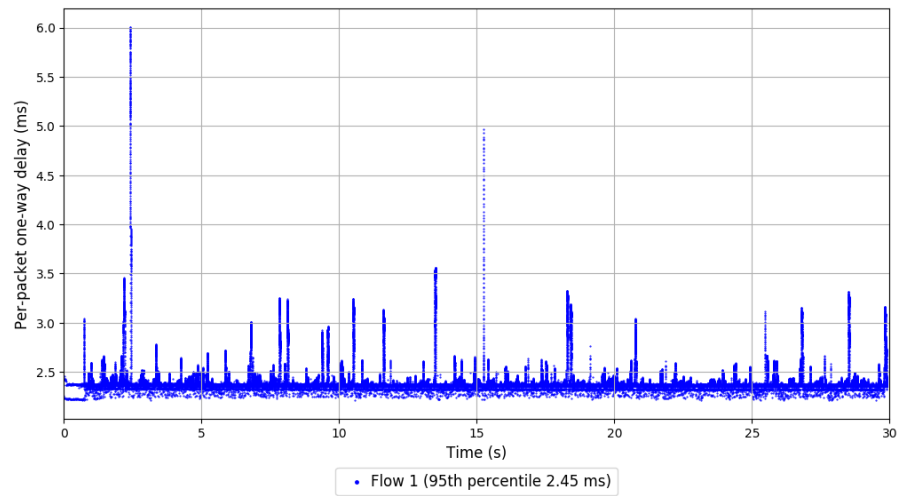
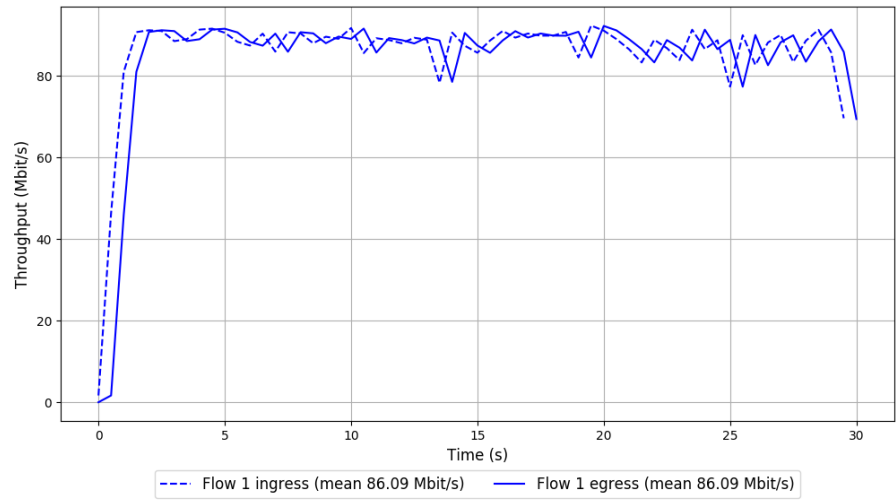
-- Flow 1:

Average throughput: 86.09 Mbit/s

95th percentile per-packet one-way delay: 2.452 ms

Loss rate: 0.01%

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





Run 5: Statistics of PCC-Vivace

Start at: 2019-06-27 15:00:02

End at: 2019-06-27 15:00:32

Local clock offset: -7.054 ms

Remote clock offset: 0.766 ms

# Below is generated by plot.py at 2019-06-27 15:29:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 1.802 ms

Loss rate: 0.01%

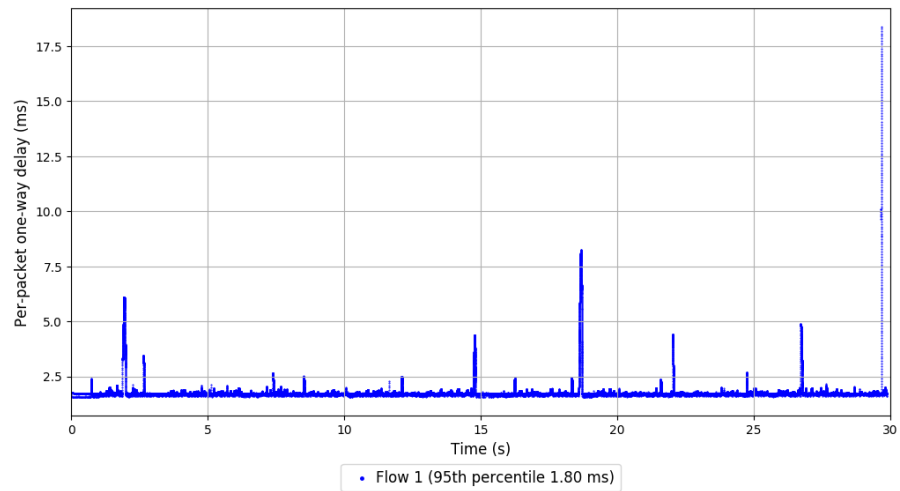
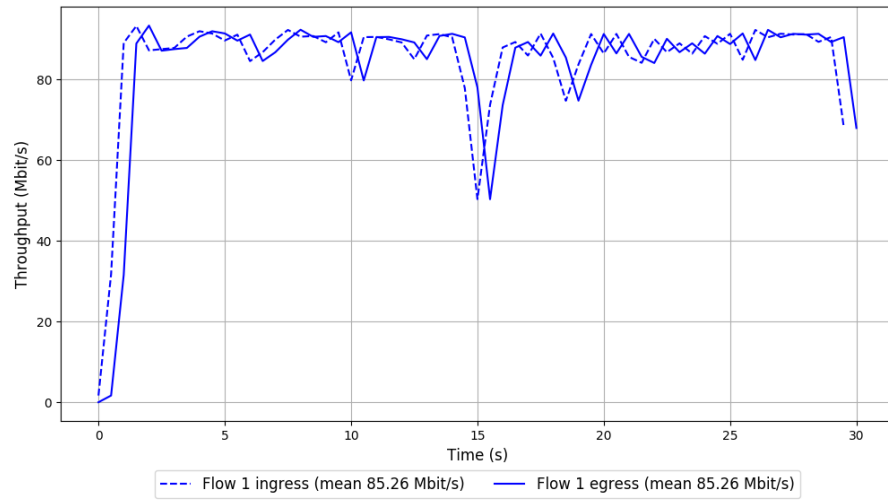
-- Flow 1:

Average throughput: 85.26 Mbit/s

95th percentile per-packet one-way delay: 1.802 ms

Loss rate: 0.01%

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

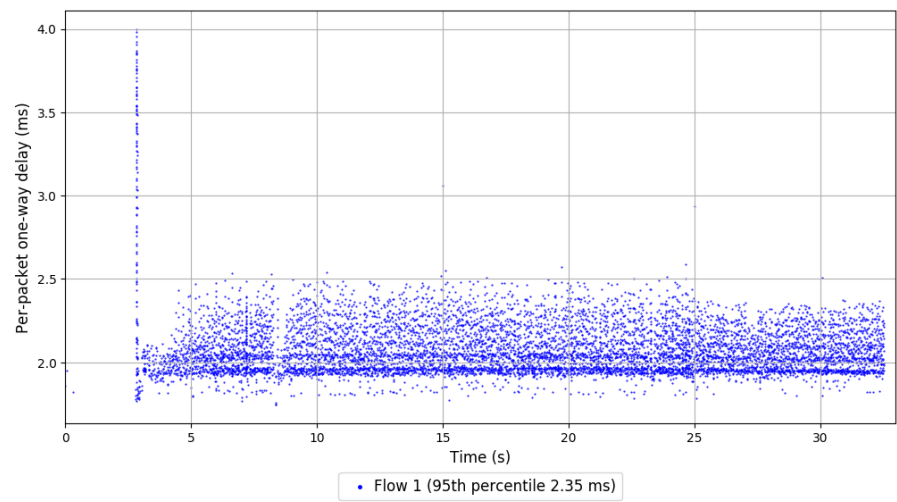
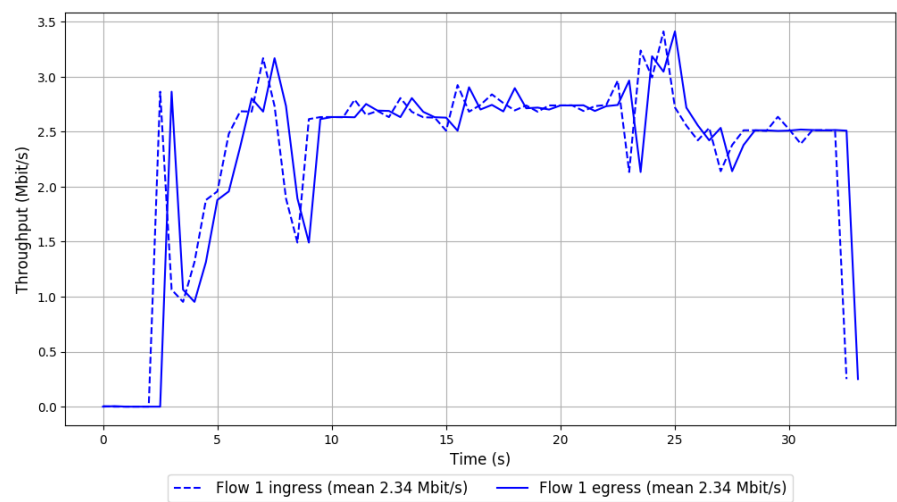


Run 1: Statistics of WebRTC media

Start at: 2019-06-27 13:26:29  
End at: 2019-06-27 13:26:59  
Local clock offset: -6.504 ms  
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2019-06-27 15:29:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 2.351 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 2.351 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-06-27 13:51:14

End at: 2019-06-27 13:51:44

Local clock offset: -6.637 ms

Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2019-06-27 15:29:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.088 ms

Loss rate: 0.07%

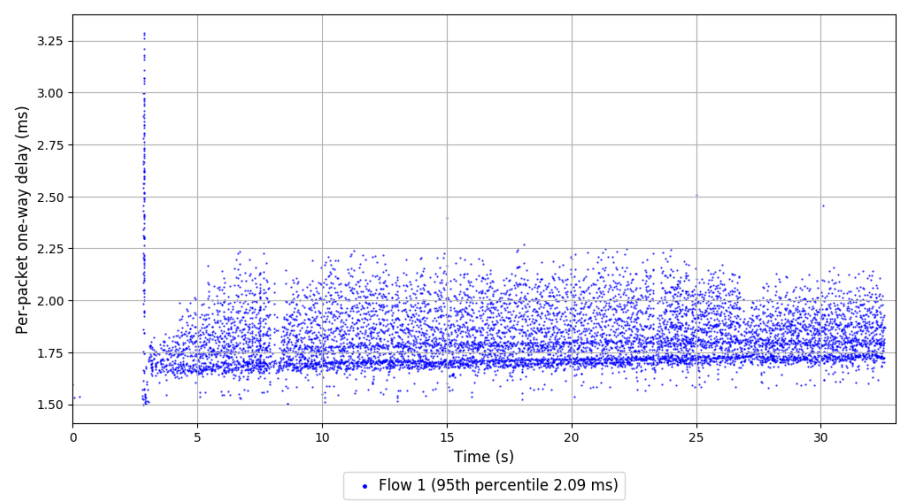
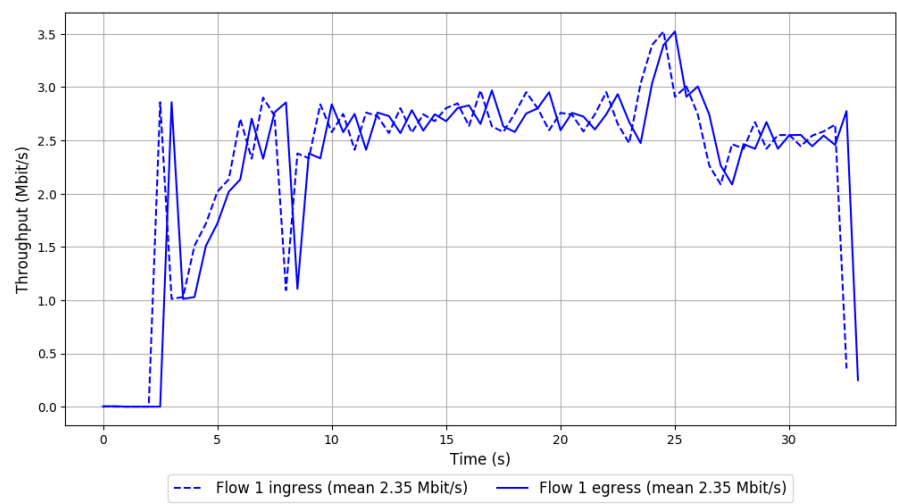
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.088 ms

Loss rate: 0.07%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-06-27 14:16:03

End at: 2019-06-27 14:16:33

Local clock offset: -6.869 ms

Remote clock offset: 0.55 ms

# Below is generated by plot.py at 2019-06-27 15:29:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.819 ms

Loss rate: 0.00%

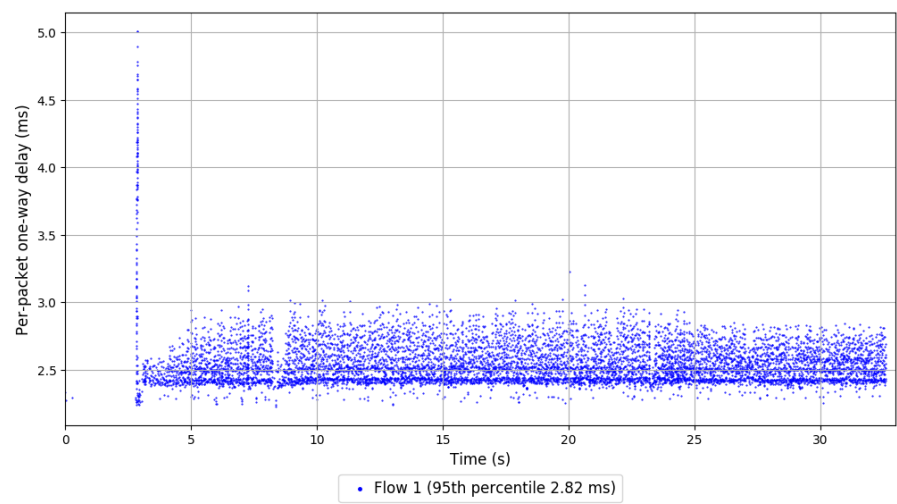
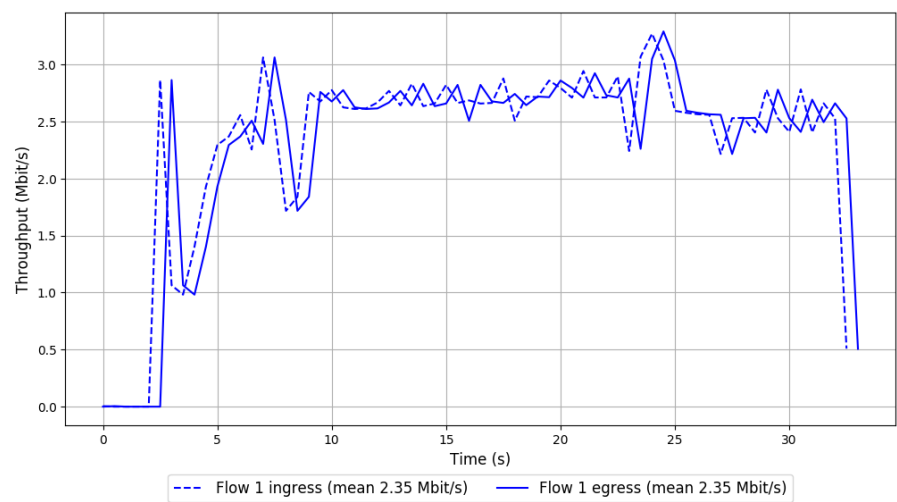
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.819 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link





Run 4: Statistics of WebRTC media

Start at: 2019-06-27 14:40:51

End at: 2019-06-27 14:41:21

Local clock offset: -6.388 ms

Remote clock offset: 0.687 ms

# Below is generated by plot.py at 2019-06-27 15:29:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.167 ms

Loss rate: 0.00%

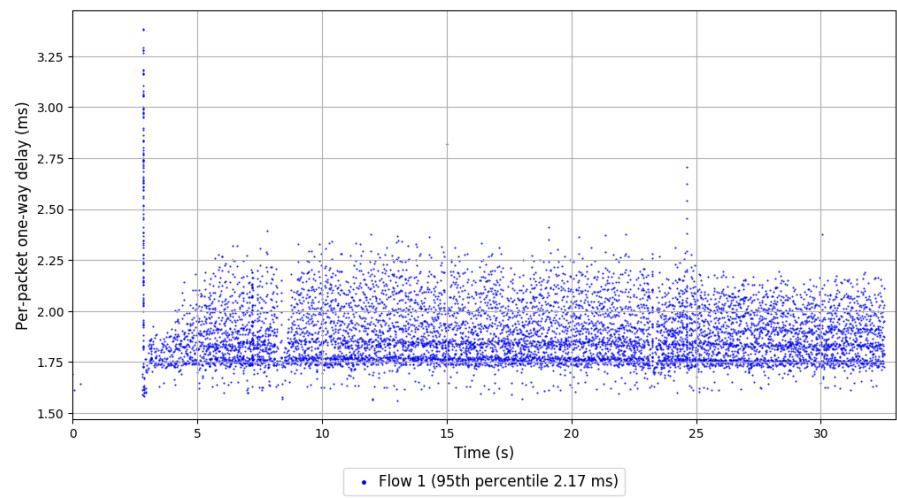
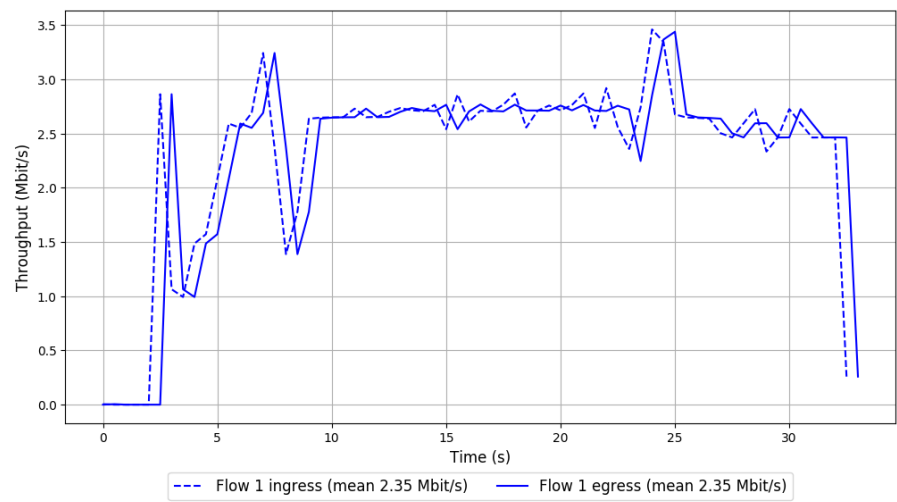
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.167 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-06-27 15:05:40

End at: 2019-06-27 15:06:10

Local clock offset: -7.438 ms

Remote clock offset: 0.87 ms

# Below is generated by plot.py at 2019-06-27 15:29:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 1.872 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 1.872 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

