

## Pantheon Report

Generated at 2019-09-18 02:25:55 (UTC).

Data path: AWS Brazil 1 on `ens5` (*local*) →Brazil on `p4p1` (*remote*).

Repeated the test of 24 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:

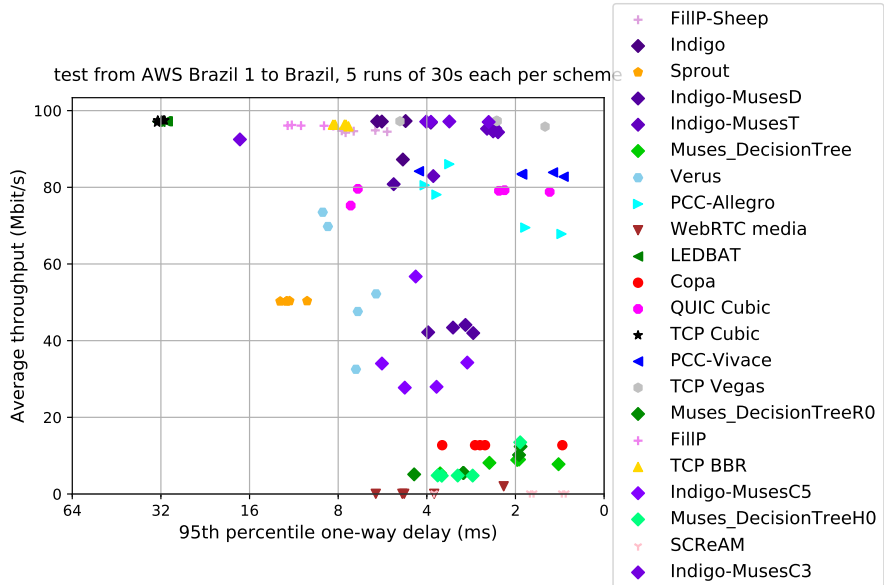
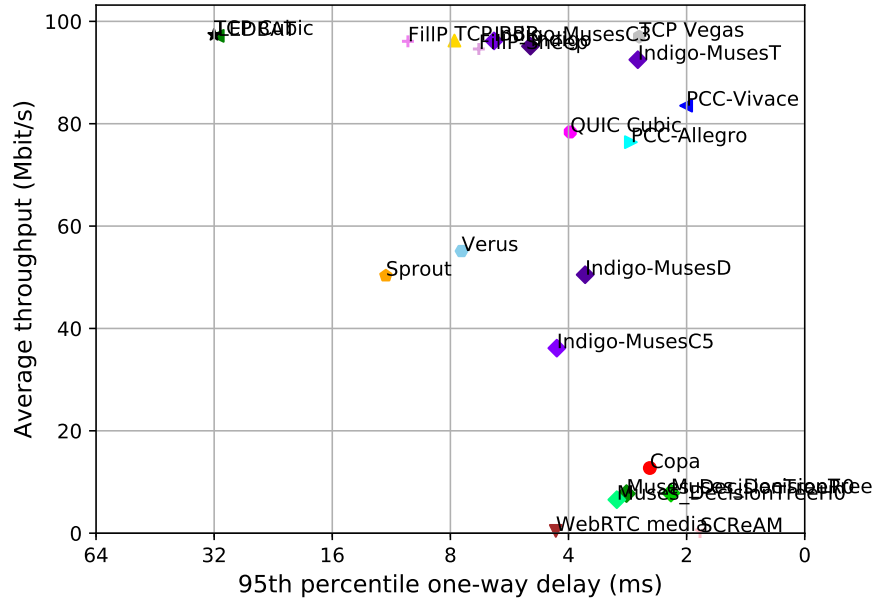
```
Linux 4.15.0-1045-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS Brazil 1 to Brazil, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	96.25	7.81	0.00
Copa	5	12.73	2.48	66.34
TCP Cubic	5	97.36	32.03	0.01
FillP	5	96.10	10.26	0.28
FillP-Sheep	5	94.60	6.77	0.08
Indigo	5	95.15	5.00	0.00
Indigo-MusesC3	5	96.18	6.19	0.00
Indigo-MusesC5	5	36.15	4.28	0.00
Indigo-MusesD	5	50.50	3.63	0.00
Indigo-MusesT	5	92.51	2.66	0.00
LEDBAT	5	97.17	31.34	0.01
Muses_DecisionTree	5	7.83	2.19	0.00
Muses_DecisionTreeH0	5	6.54	3.01	0.00
Muses_DecisionTreeR0	5	7.73	2.85	0.00
PCC-Allegro	5	76.40	2.77	0.00
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	5	78.39	3.96	0.27
SCReAM	5	0.22	1.77	0.00
Sprout	5	50.31	11.68	0.00
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	97.00	2.64	0.00
Verus	5	55.12	7.49	1.32
PCC-Vivace	5	83.53	2.01	0.00
WebRTC media	5	0.44	4.31	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-09-18 00:18:49

End at: 2019-09-18 00:19:19

Local clock offset: -5.426 ms

Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.198 ms

Loss rate: 0.00%

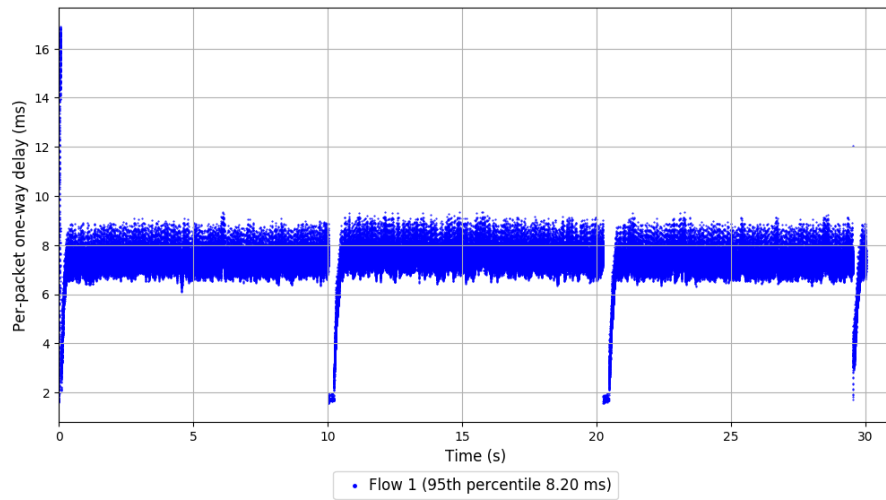
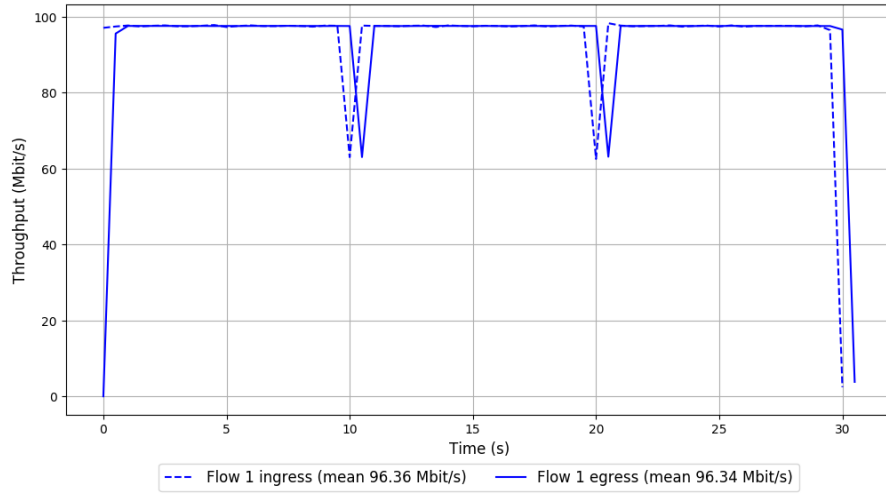
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 8.198 ms

Loss rate: 0.00%

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



Run 2: Statistics of TCP BBR

Start at: 2019-09-18 00:45:28

End at: 2019-09-18 00:45:58

Local clock offset: -4.981 ms

Remote clock offset: 0.409 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 7.383 ms

Loss rate: 0.00%

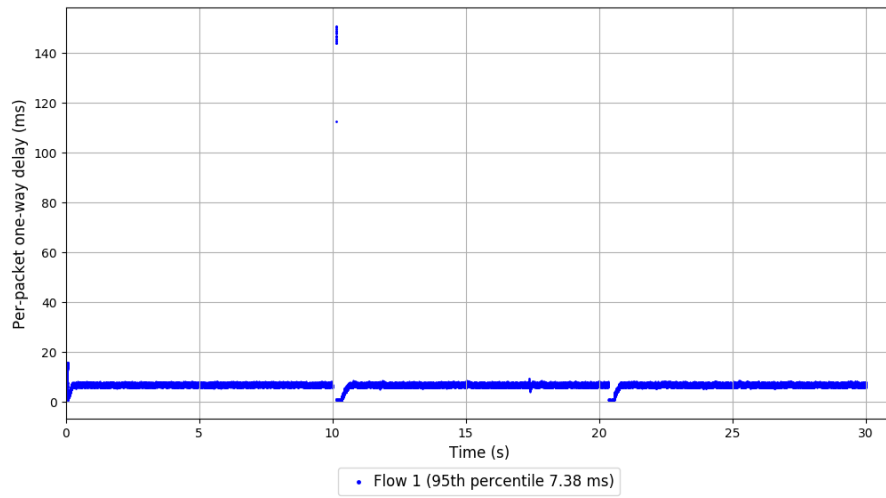
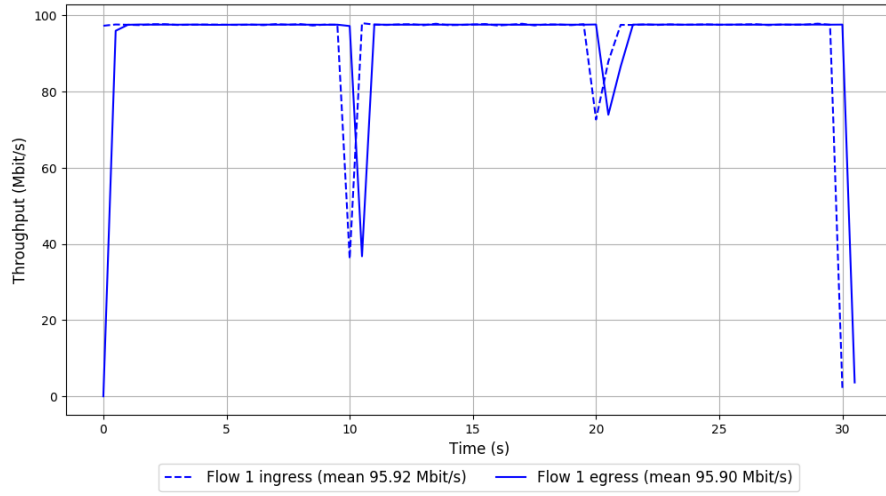
-- Flow 1:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 7.383 ms

Loss rate: 0.00%

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





Run 3: Statistics of TCP BBR

Start at: 2019-09-18 01:12:08

End at: 2019-09-18 01:12:38

Local clock offset: 0.381 ms

Remote clock offset: 0.574 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 8.335 ms

Loss rate: 0.00%

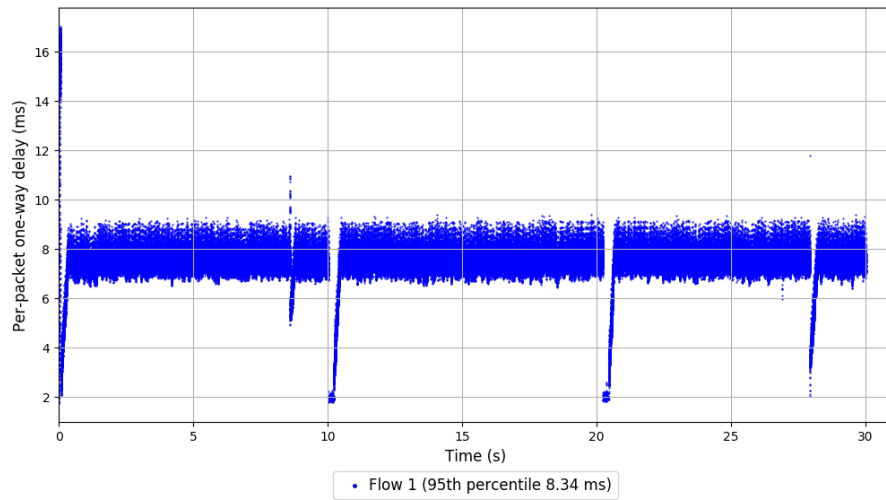
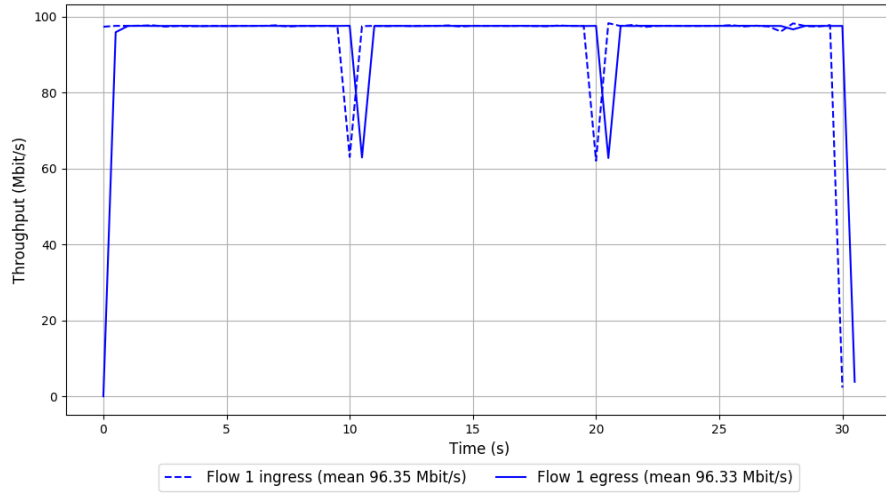
-- Flow 1:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 8.335 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP BBR

Start at: 2019-09-18 01:38:46

End at: 2019-09-18 01:39:16

Local clock offset: 4.737 ms

Remote clock offset: 0.602 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 7.528 ms

Loss rate: 0.00%

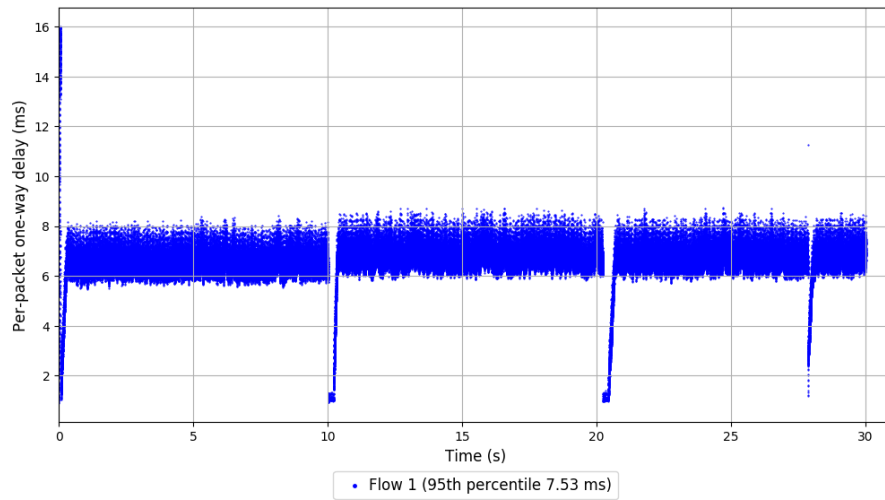
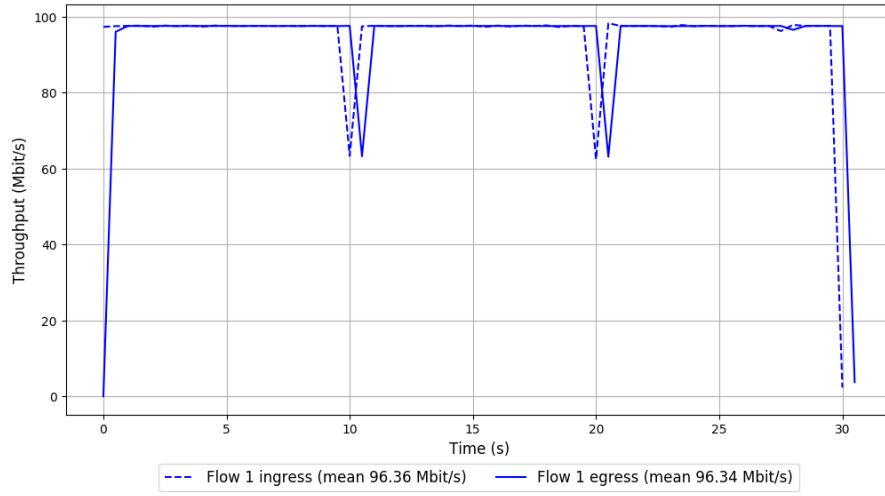
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 7.528 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP BBR

Start at: 2019-09-18 02:05:25

End at: 2019-09-18 02:05:55

Local clock offset: 0.236 ms

Remote clock offset: 0.521 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 7.618 ms

Loss rate: 0.00%

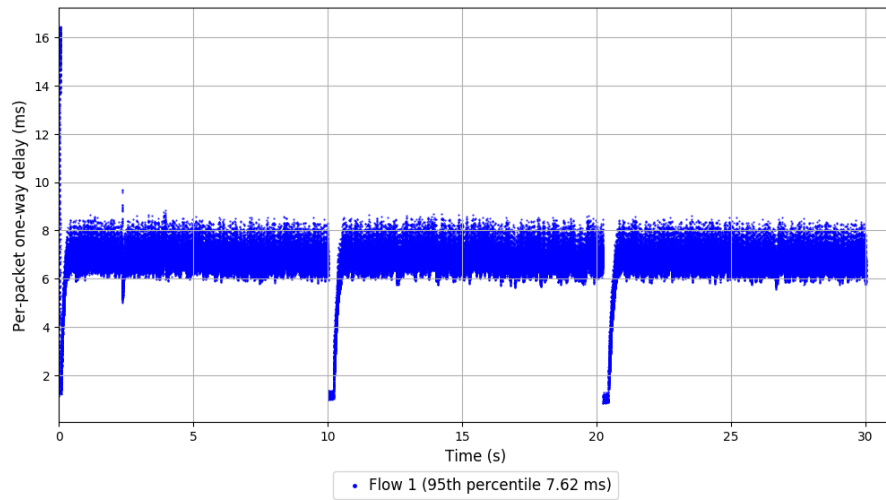
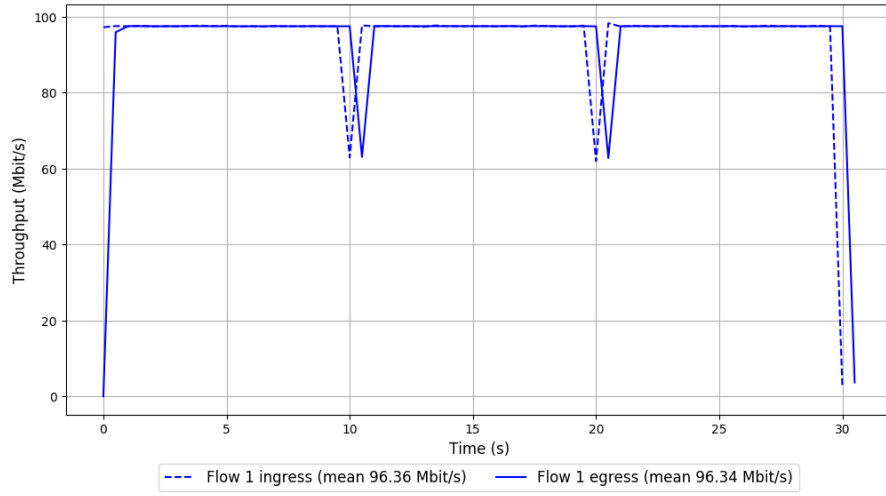
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 7.618 ms

Loss rate: 0.00%

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



Run 1: Statistics of Copa

Start at: 2019-09-18 00:16:39

End at: 2019-09-18 00:17:09

Local clock offset: -4.617 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 67.88%

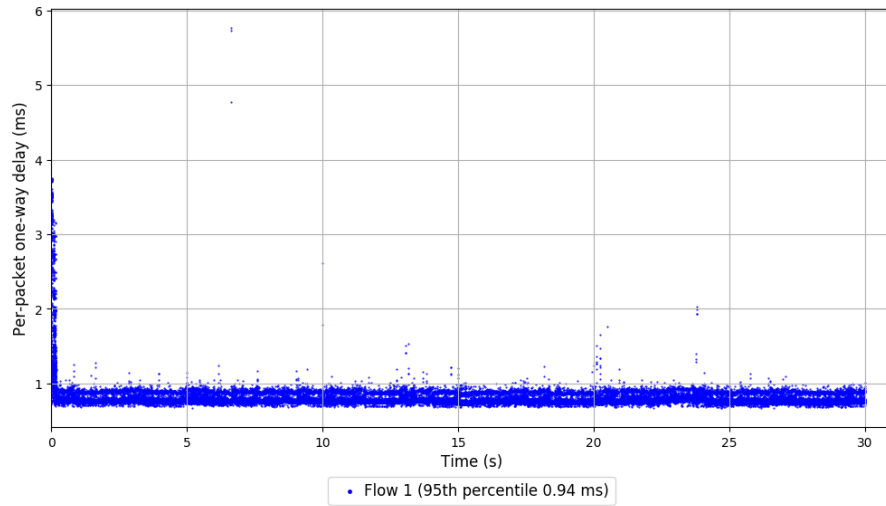
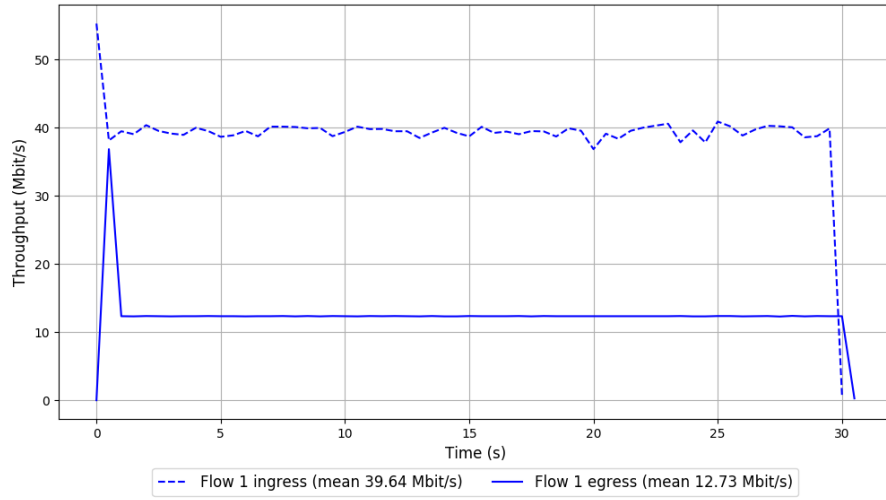
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 67.88%

### Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

Start at: 2019-09-18 00:43:18

End at: 2019-09-18 00:43:48

Local clock offset: -4.974 ms

Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.538 ms

Loss rate: 65.38%

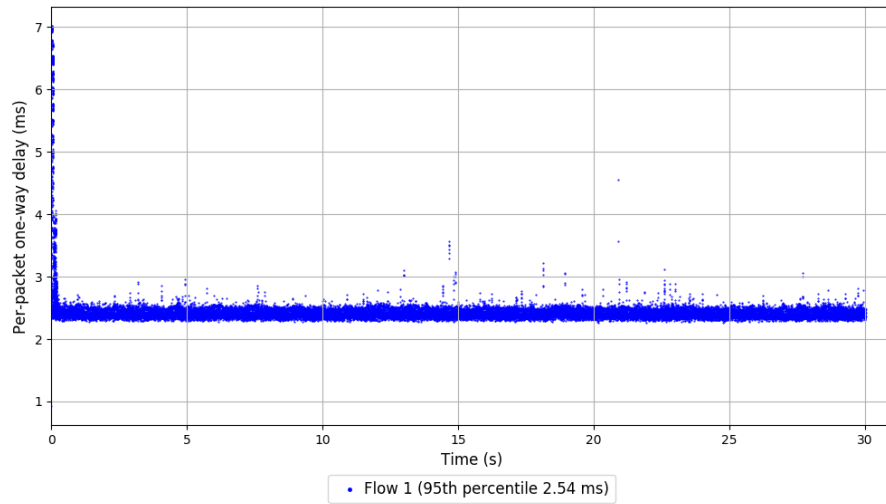
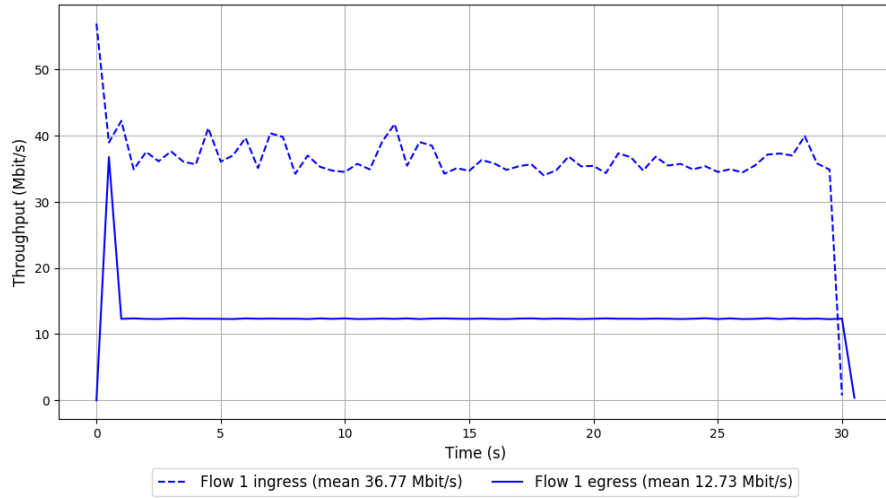
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.538 ms

Loss rate: 65.38%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-09-18 01:09:58

End at: 2019-09-18 01:10:28

Local clock offset: -0.326 ms

Remote clock offset: 0.461 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.547 ms

Loss rate: 66.55%

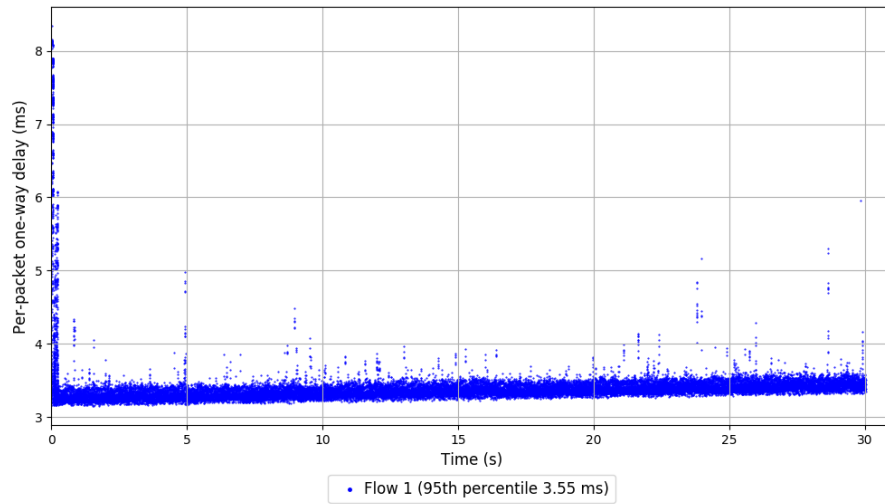
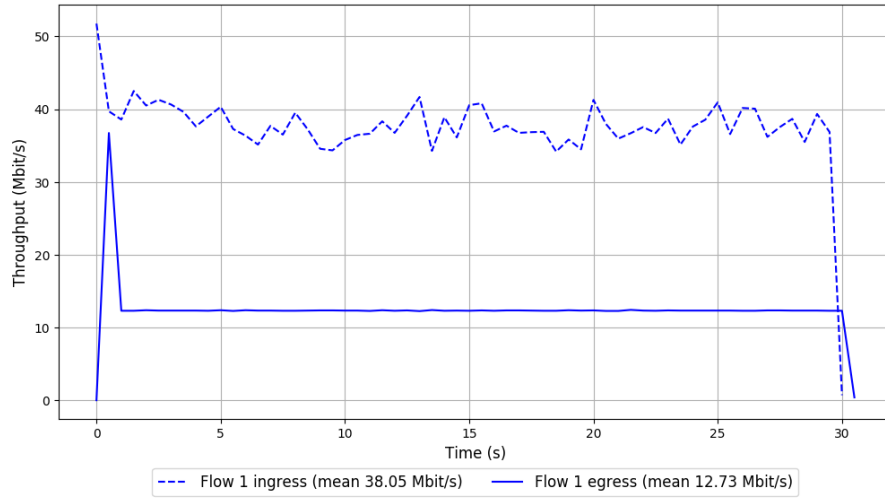
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.547 ms

Loss rate: 66.55%

### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-09-18 01:36:35

End at: 2019-09-18 01:37:06

Local clock offset: 4.741 ms

Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.639 ms

Loss rate: 66.35%

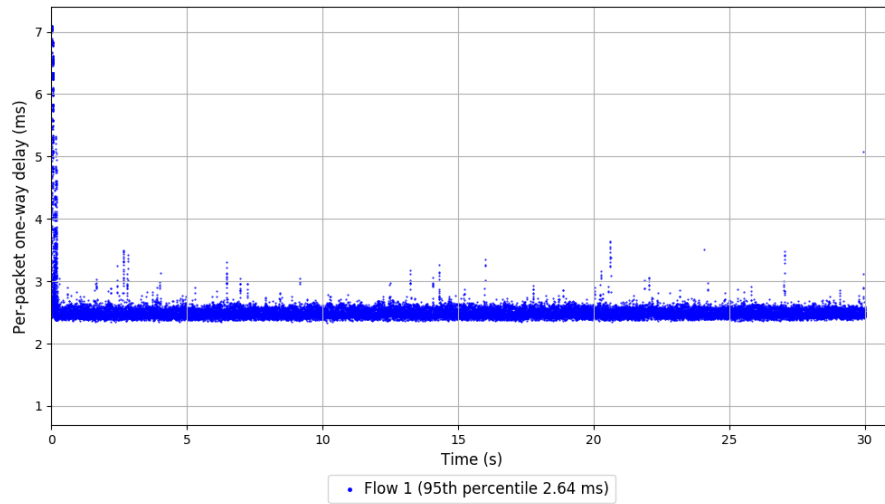
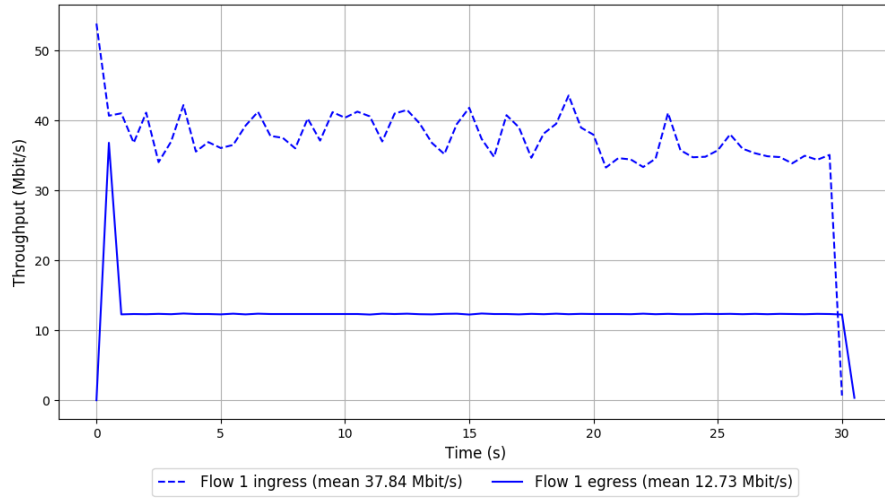
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.639 ms

Loss rate: 66.35%

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-09-18 02:03:15

End at: 2019-09-18 02:03:45

Local clock offset: 2.476 ms

Remote clock offset: 0.515 ms

# Below is generated by plot.py at 2019-09-18 02:16:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.743 ms

Loss rate: 65.53%

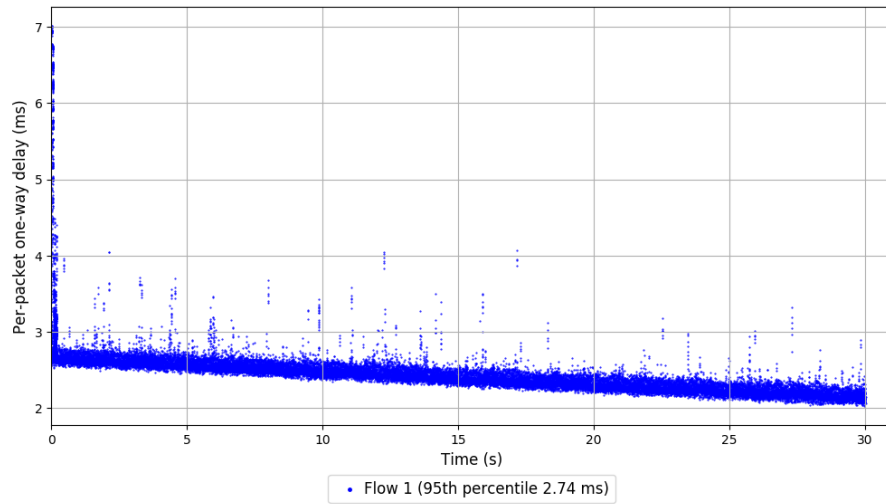
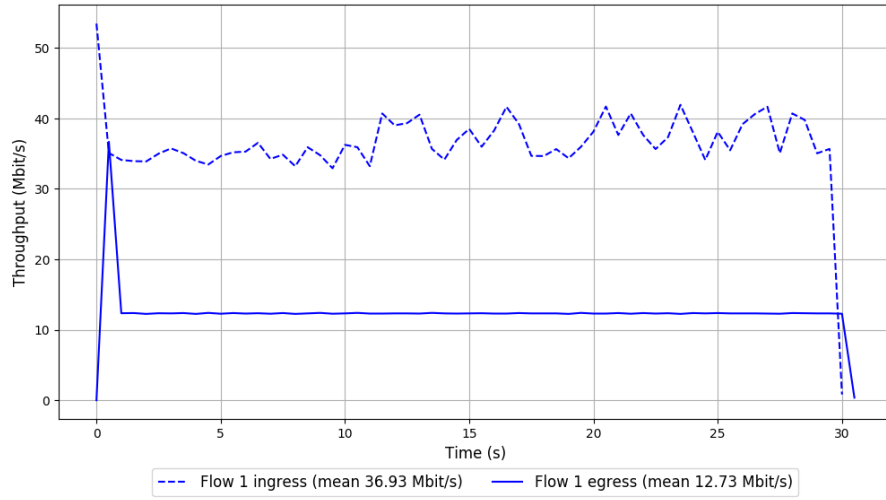
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 2.743 ms

Loss rate: 65.53%

### Run 5: Report of Copa — Data Link





Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 00:04:23  
End at: 2019-09-18 00:04:53  
Local clock offset: -4.468 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-09-18 02:16:45

# Datalink statistics

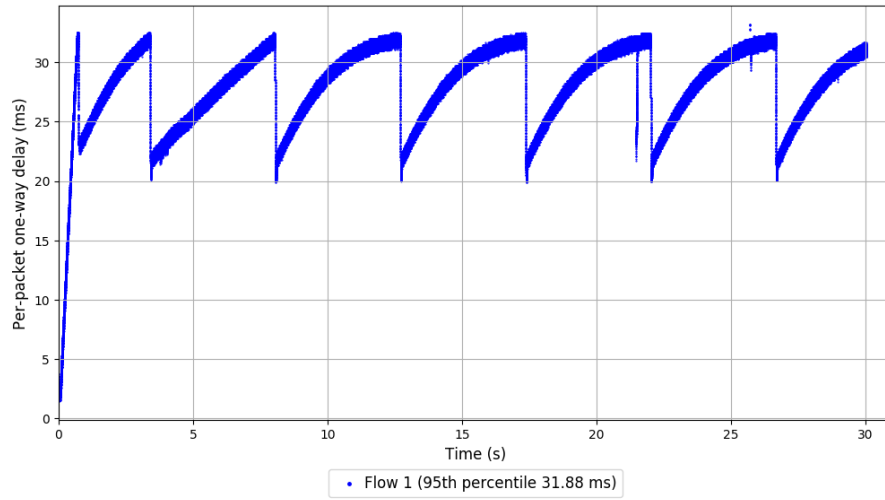
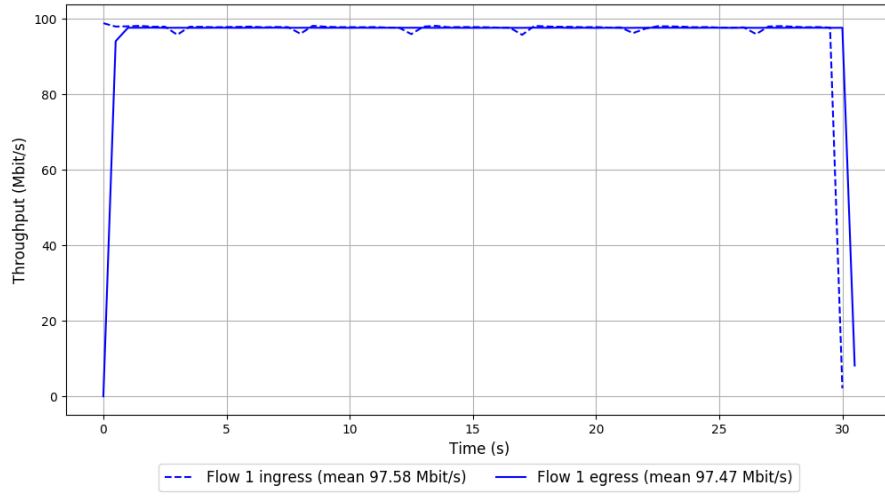
-- Total of 1 flow:

Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 31.883 ms  
Loss rate: 0.01%

-- Flow 1:

Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 31.883 ms  
Loss rate: 0.01%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 00:31:06

End at: 2019-09-18 00:31:36

Local clock offset: -4.706 ms

Remote clock offset: 0.25 ms

# Below is generated by plot.py at 2019-09-18 02:16:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.087 ms

Loss rate: 0.01%

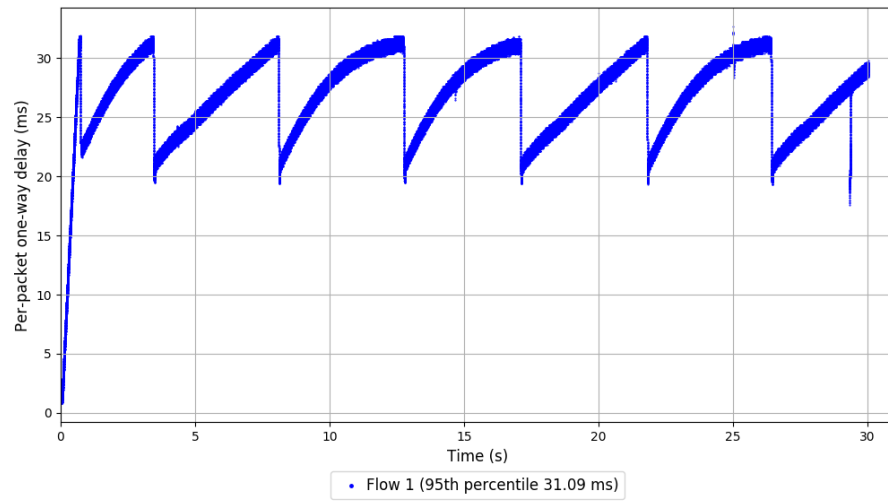
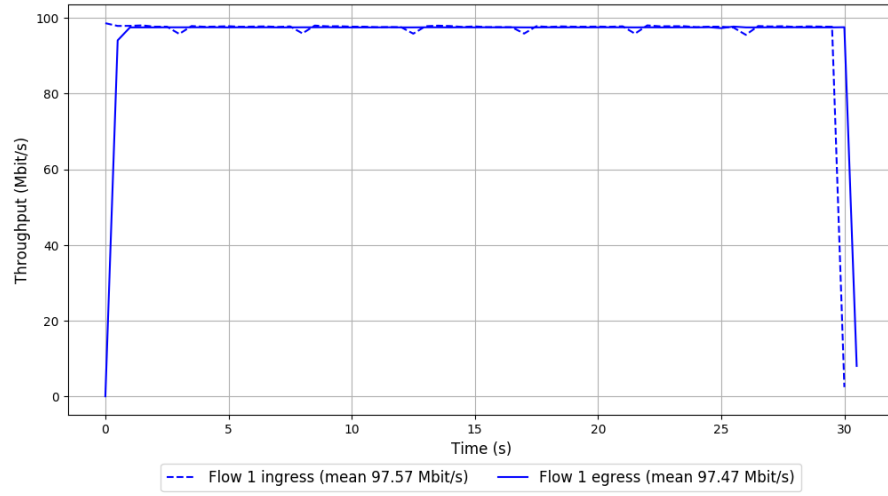
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.087 ms

Loss rate: 0.01%

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



Run 3: Statistics of TCP Cubic

Start at: 2019-09-18 00:57:47

End at: 2019-09-18 00:58:17

Local clock offset: -4.951 ms

Remote clock offset: 0.47 ms

# Below is generated by plot.py at 2019-09-18 02:16:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.799 ms

Loss rate: 0.01%

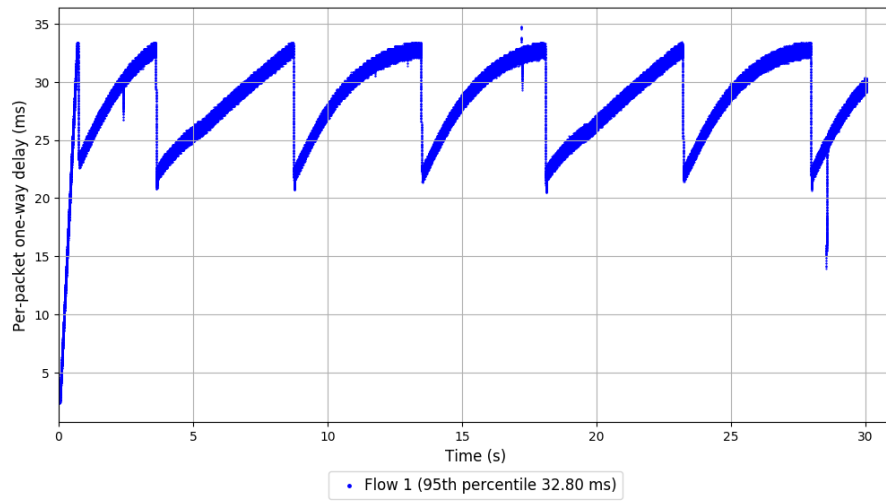
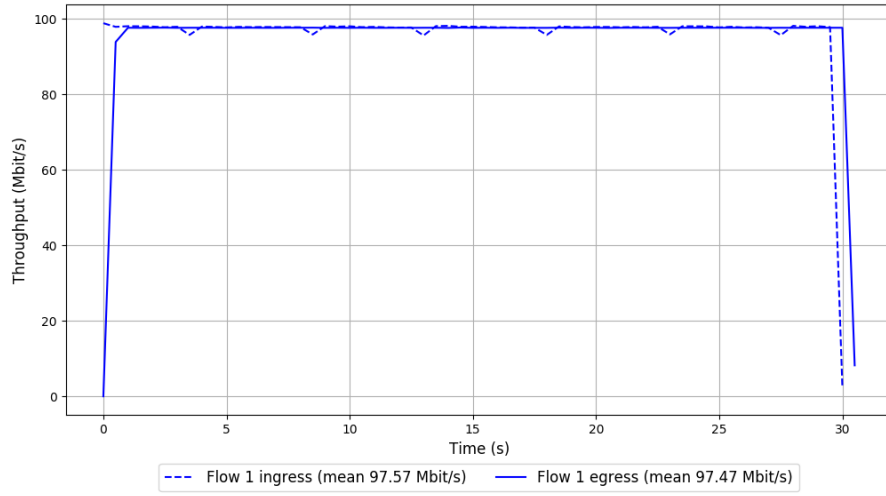
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 32.799 ms

Loss rate: 0.01%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-09-18 01:24:25

End at: 2019-09-18 01:24:55

Local clock offset: 3.811 ms

Remote clock offset: 0.603 ms

# Below is generated by plot.py at 2019-09-18 02:17:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 32.969 ms

Loss rate: 0.01%

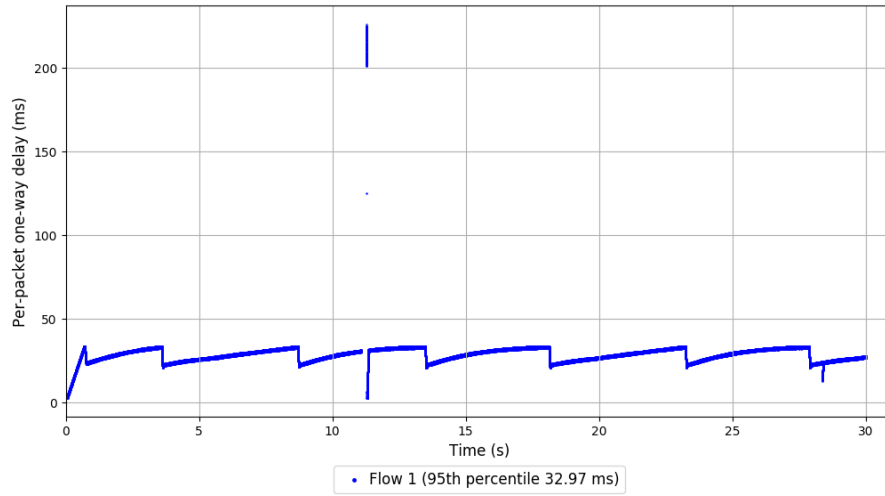
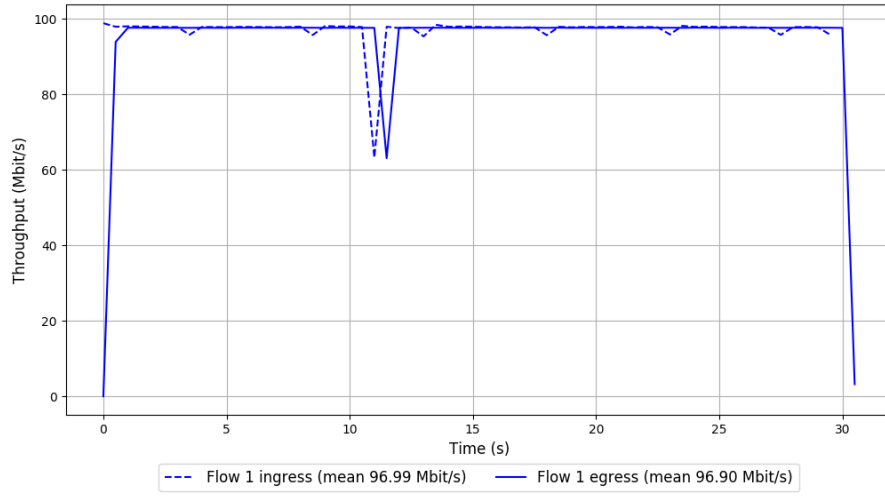
-- Flow 1:

Average throughput: 96.90 Mbit/s

95th percentile per-packet one-way delay: 32.969 ms

Loss rate: 0.01%

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





Run 5: Statistics of TCP Cubic

Start at: 2019-09-18 01:51:04

End at: 2019-09-18 01:51:34

Local clock offset: 5.579 ms

Remote clock offset: 0.573 ms

# Below is generated by plot.py at 2019-09-18 02:17:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.409 ms

Loss rate: 0.01%

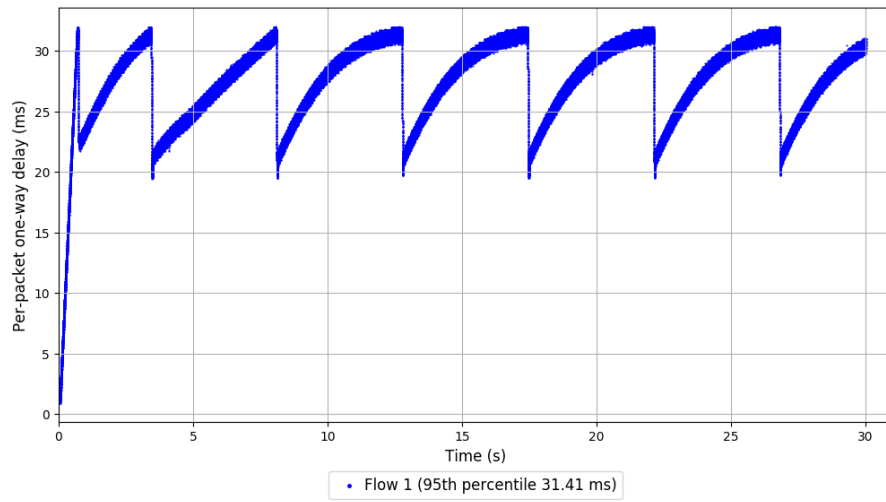
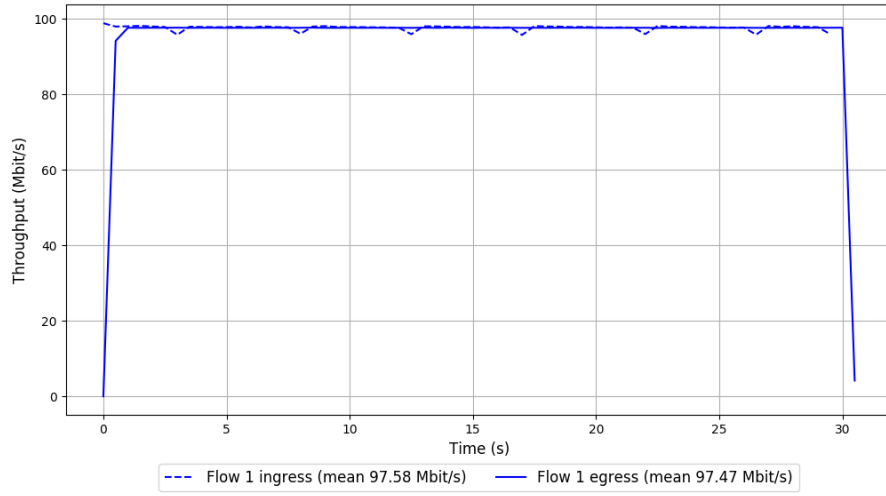
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.409 ms

Loss rate: 0.01%

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



Run 1: Statistics of FillP

Start at: 2019-09-18 00:25:30

End at: 2019-09-18 00:26:00

Local clock offset: -5.467 ms

Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2019-09-18 02:17:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 11.876 ms

Loss rate: 0.26%

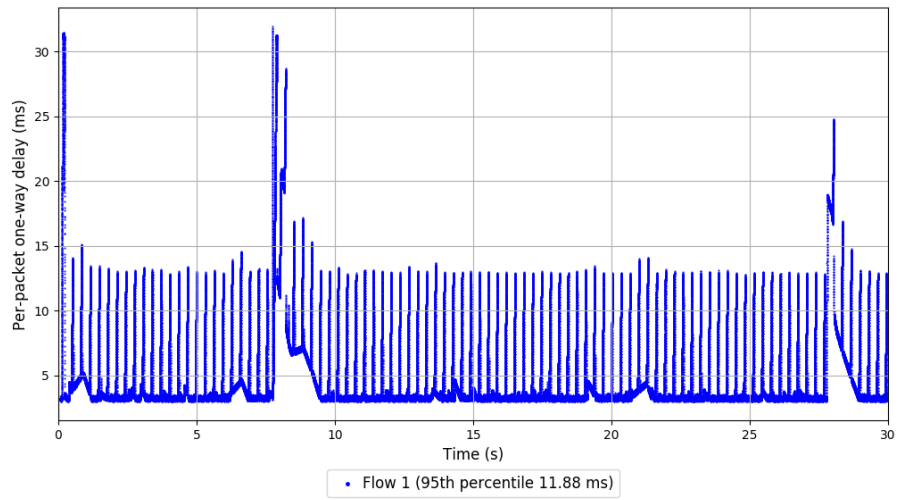
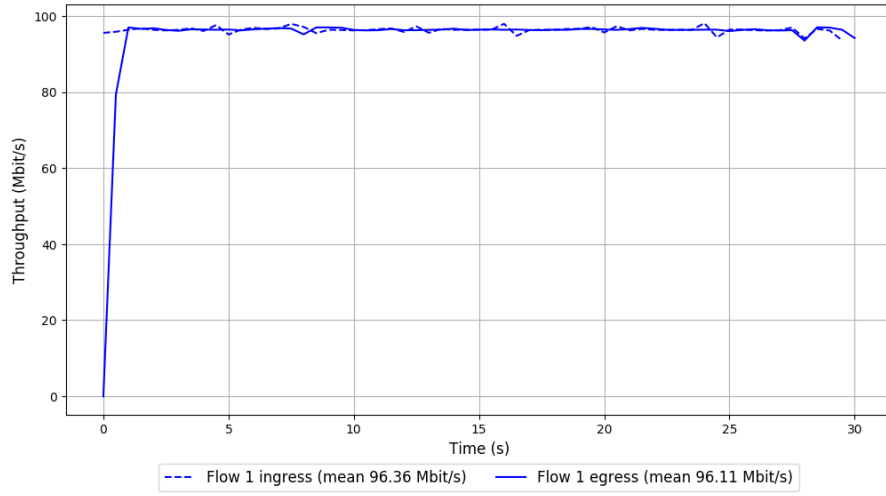
-- Flow 1:

Average throughput: 96.11 Mbit/s

95th percentile per-packet one-way delay: 11.876 ms

Loss rate: 0.26%

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



Run 2: Statistics of FillP

Start at: 2019-09-18 00:52:11

End at: 2019-09-18 00:52:41

Local clock offset: -5.822 ms

Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2019-09-18 02:17:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 8.937 ms

Loss rate: 0.32%

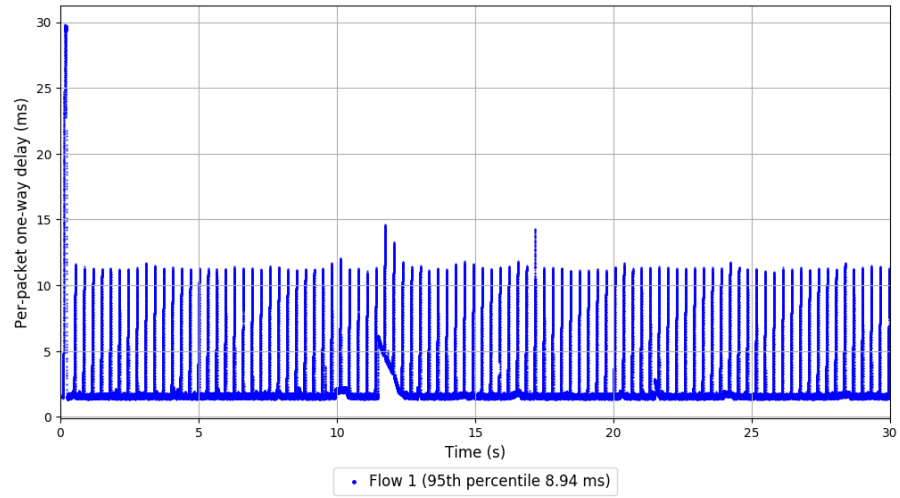
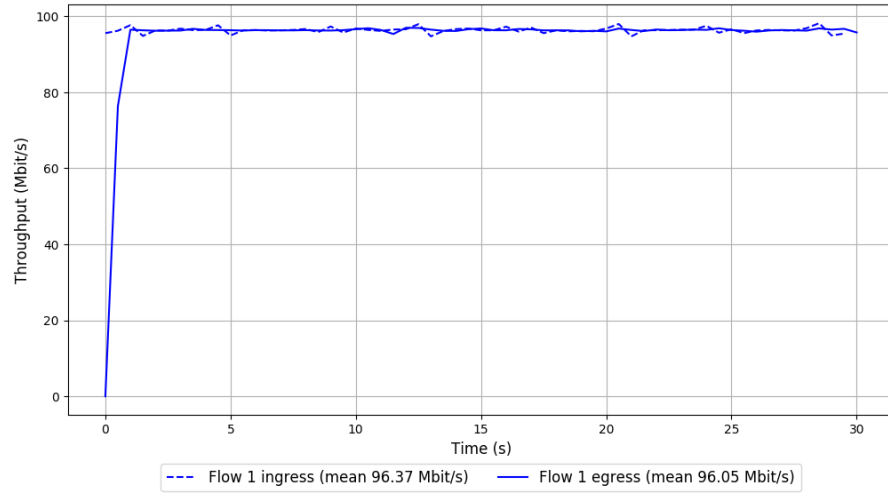
-- Flow 1:

Average throughput: 96.05 Mbit/s

95th percentile per-packet one-way delay: 8.937 ms

Loss rate: 0.32%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-09-18 01:18:48

End at: 2019-09-18 01:19:18

Local clock offset: 2.78 ms

Remote clock offset: 0.573 ms

# Below is generated by plot.py at 2019-09-18 02:17:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 11.498 ms

Loss rate: 0.25%

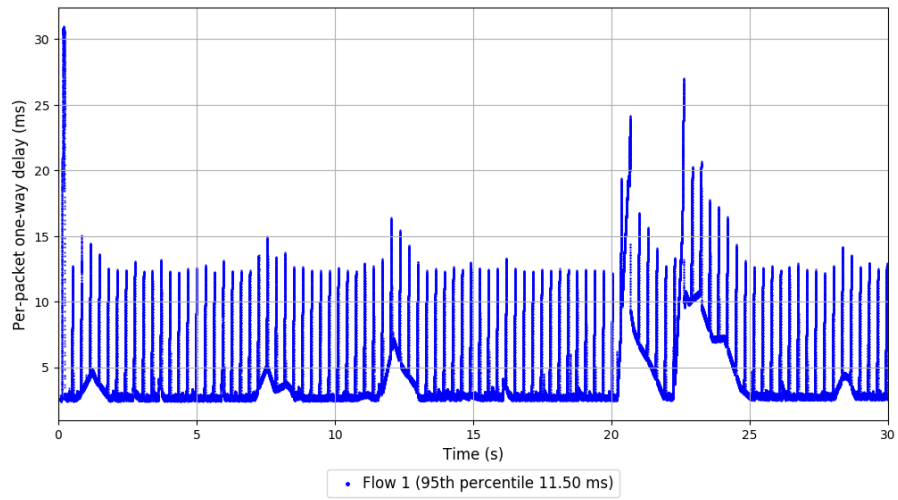
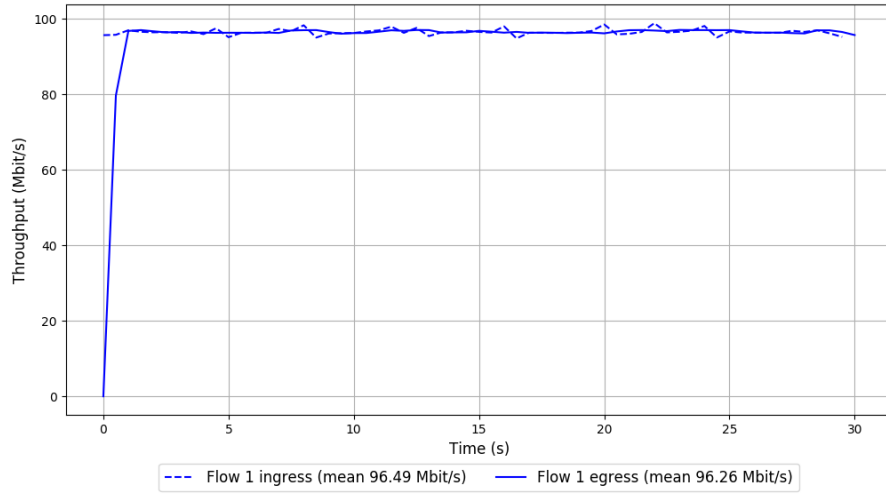
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 11.498 ms

Loss rate: 0.25%

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





Run 4: Statistics of FillP

Start at: 2019-09-18 01:45:28

End at: 2019-09-18 01:45:58

Local clock offset: 5.151 ms

Remote clock offset: 0.512 ms

# Below is generated by plot.py at 2019-09-18 02:18:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 8.312 ms

Loss rate: 0.32%

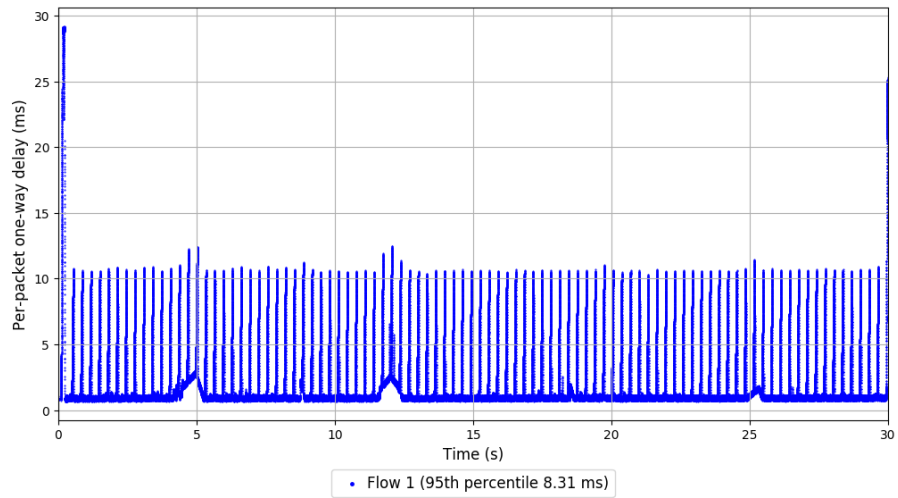
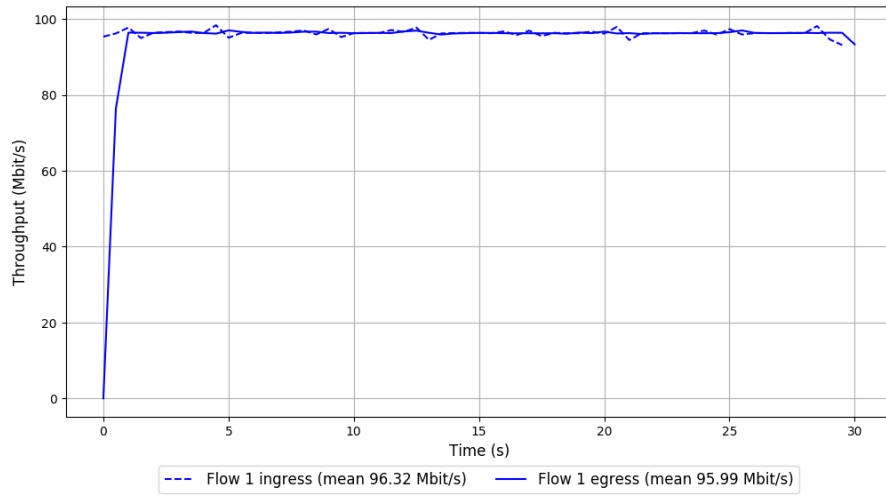
-- Flow 1:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 8.312 ms

Loss rate: 0.32%

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



Run 5: Statistics of FillP

Start at: 2019-09-18 02:12:07

End at: 2019-09-18 02:12:37

Local clock offset: -3.363 ms

Remote clock offset: 0.414 ms

# Below is generated by plot.py at 2019-09-18 02:18:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 10.698 ms

Loss rate: 0.25%

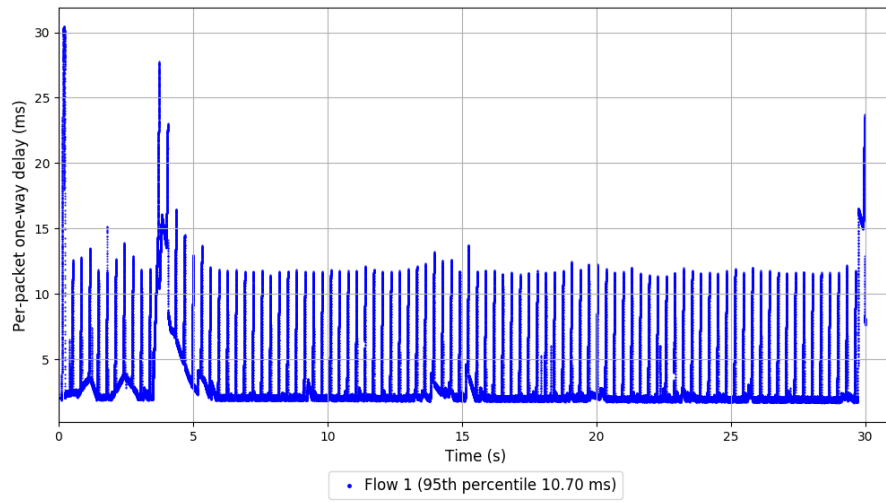
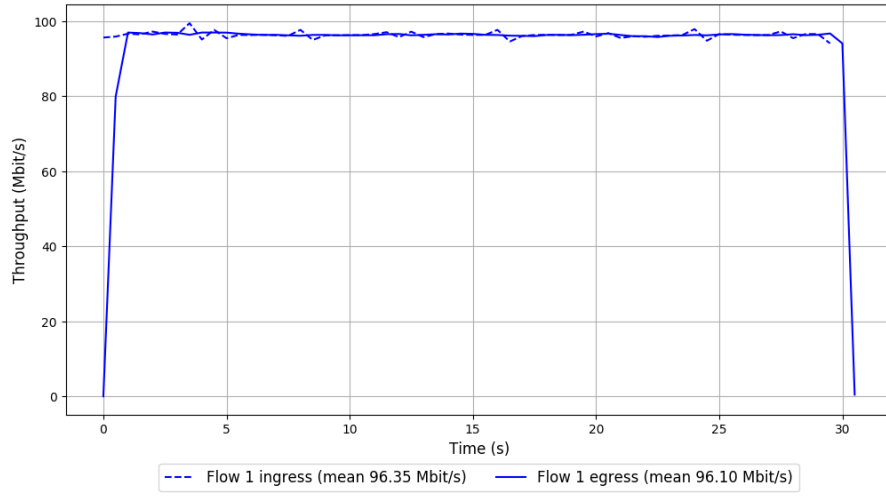
-- Flow 1:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 10.698 ms

Loss rate: 0.25%

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



Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 00:10:02

End at: 2019-09-18 00:10:32

Local clock offset: -5.1 ms

Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-09-18 02:18:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 7.086 ms

Loss rate: 0.08%

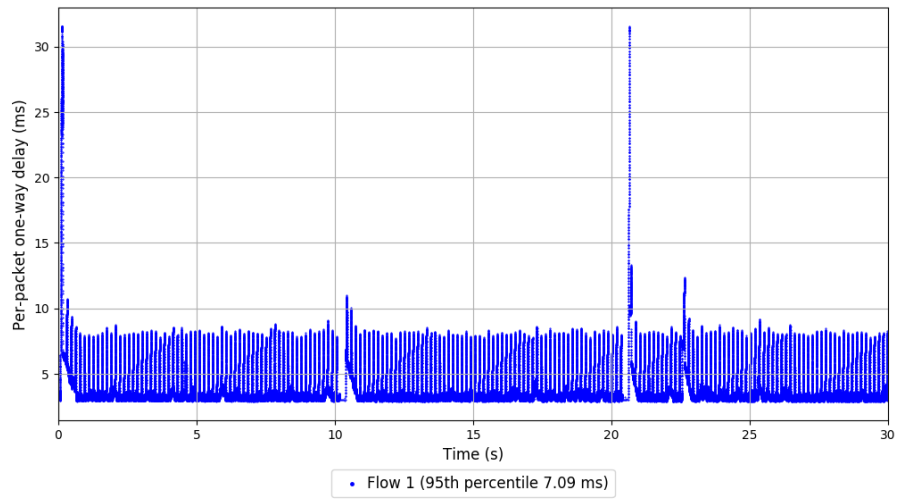
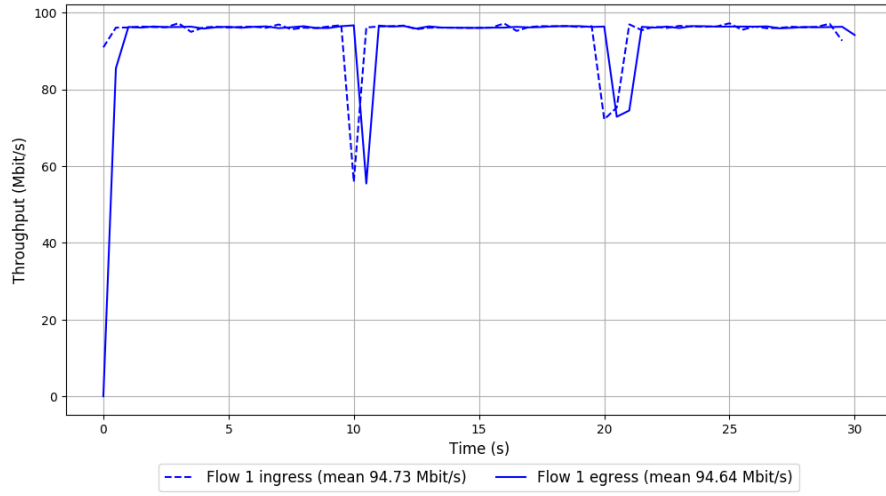
-- Flow 1:

Average throughput: 94.64 Mbit/s

95th percentile per-packet one-way delay: 7.086 ms

Loss rate: 0.08%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 00:36:41

End at: 2019-09-18 00:37:11

Local clock offset: -5.676 ms

Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2019-09-18 02:18:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 7.778 ms

Loss rate: 0.09%

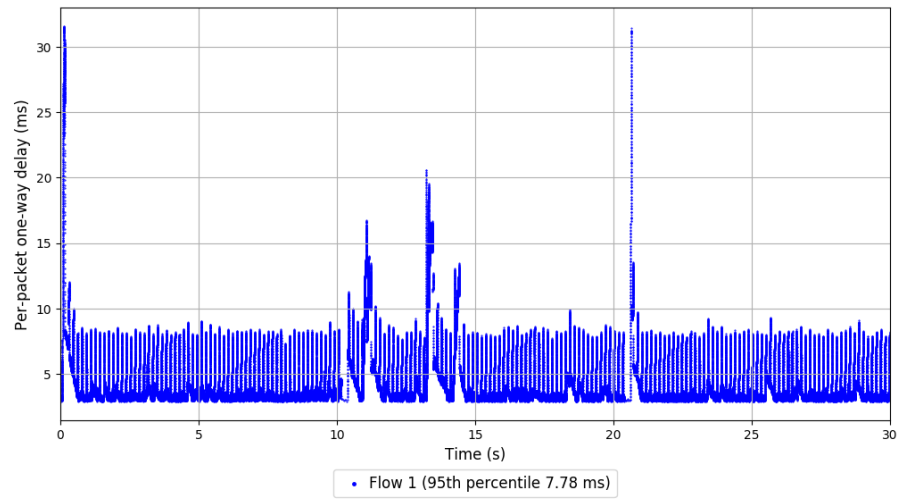
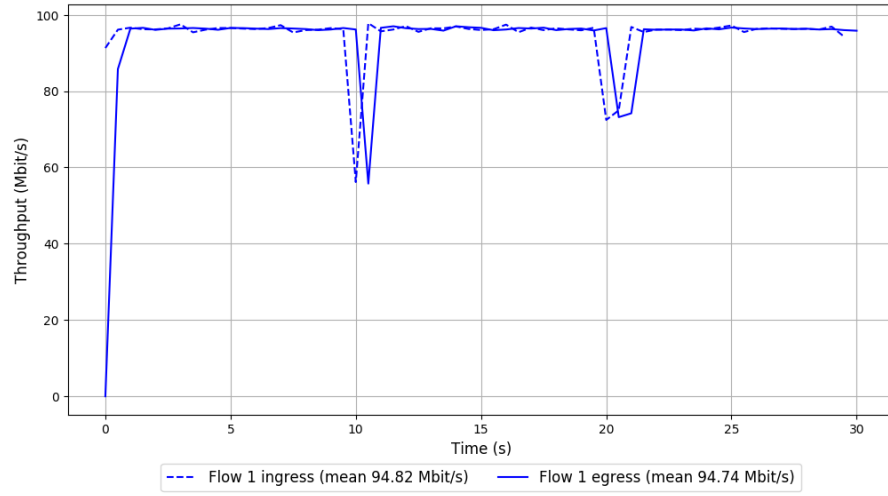
-- Flow 1:

Average throughput: 94.74 Mbit/s

95th percentile per-packet one-way delay: 7.778 ms

Loss rate: 0.09%

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





Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 01:03:21

End at: 2019-09-18 01:03:52

Local clock offset: -2.913 ms

Remote clock offset: 0.502 ms

# Below is generated by plot.py at 2019-09-18 02:18:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.86 Mbit/s

95th percentile per-packet one-way delay: 5.983 ms

Loss rate: 0.07%

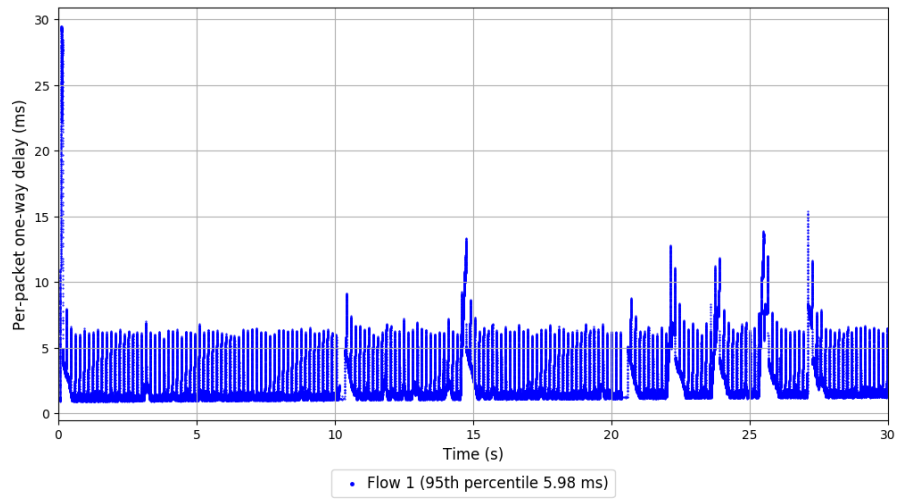
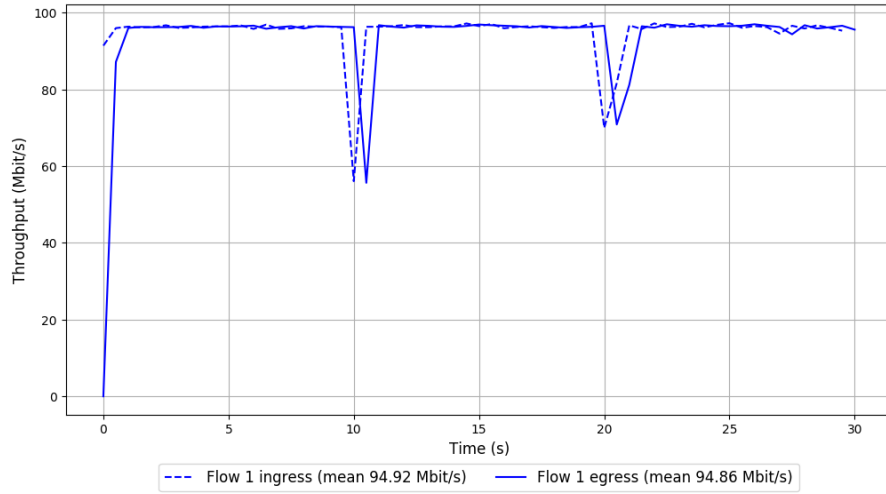
-- Flow 1:

Average throughput: 94.86 Mbit/s

95th percentile per-packet one-way delay: 5.983 ms

Loss rate: 0.07%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-09-18 01:29:59

End at: 2019-09-18 01:30:29

Local clock offset: 3.795 ms

Remote clock offset: 0.593 ms

# Below is generated by plot.py at 2019-09-18 02:19:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 7.550 ms

Loss rate: 0.09%

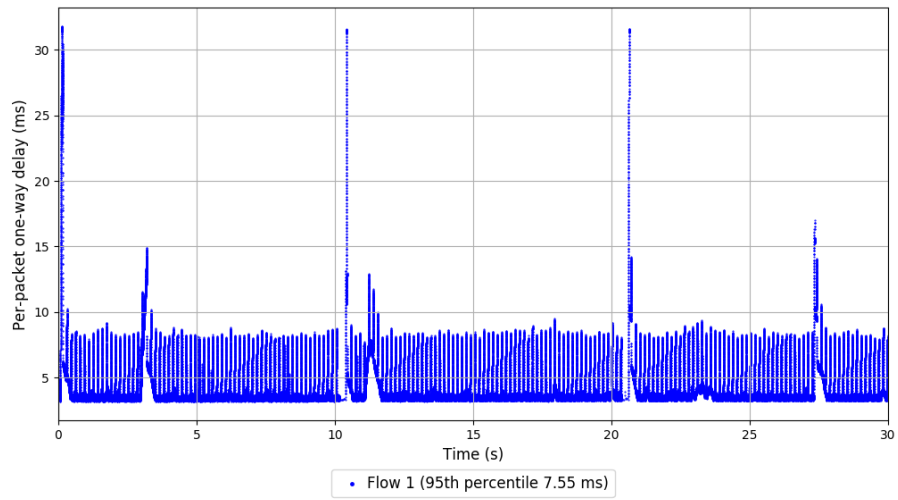
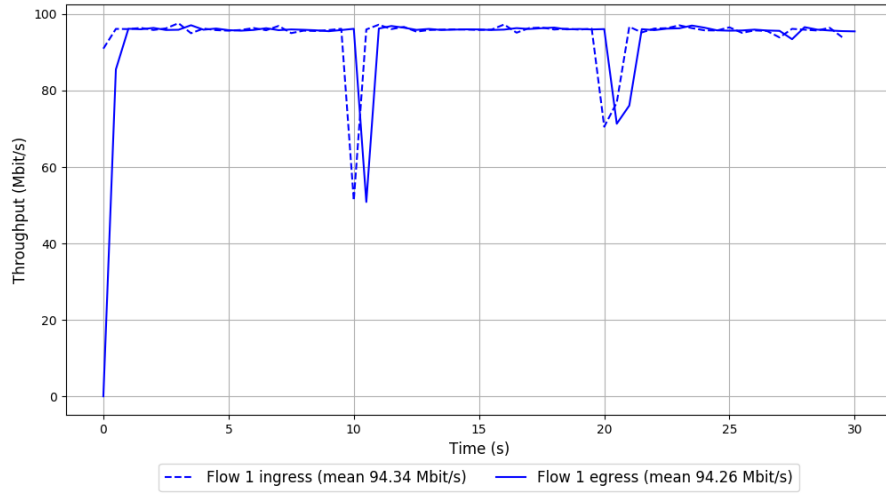
-- Flow 1:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 7.550 ms

Loss rate: 0.09%

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



Run 5: Statistics of FillP-Sheep

Start at: 2019-09-18 01:56:39

End at: 2019-09-18 01:57:09

Local clock offset: 6.087 ms

Remote clock offset: 0.529 ms

# Below is generated by plot.py at 2019-09-18 02:19:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 5.454 ms

Loss rate: 0.07%

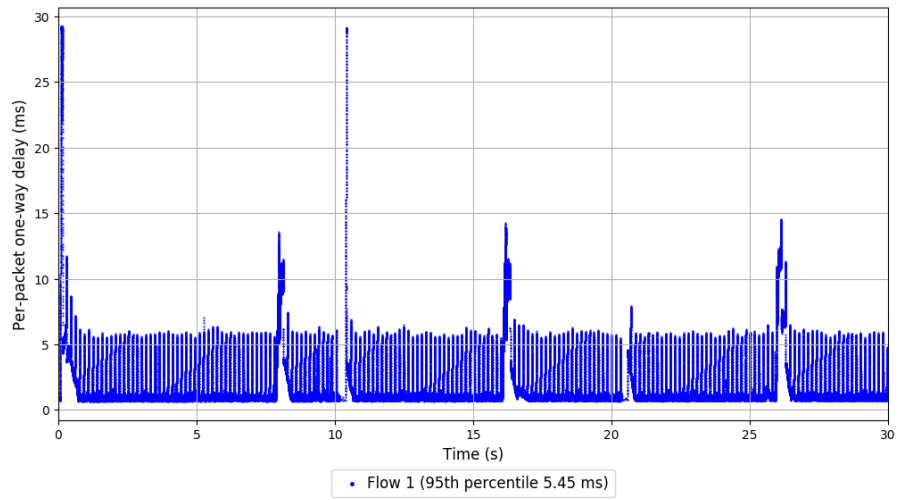
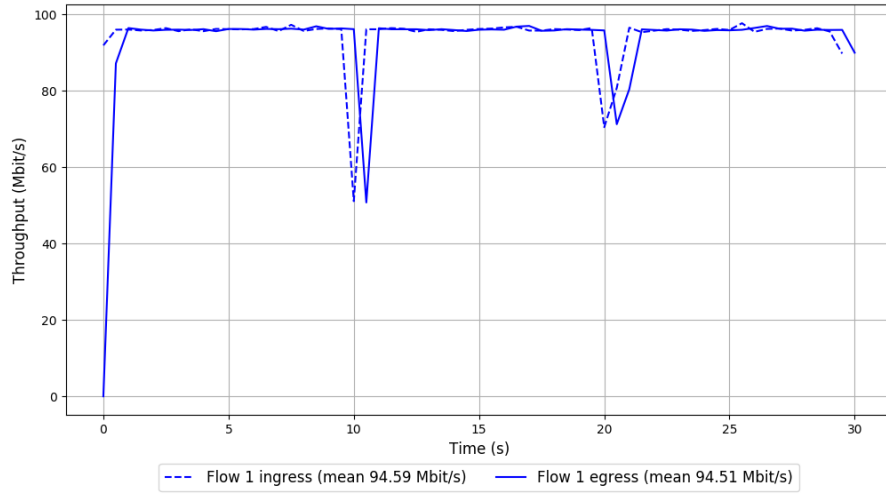
-- Flow 1:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 5.454 ms

Loss rate: 0.07%

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



Run 1: Statistics of Indigo

Start at: 2019-09-18 00:02:09  
End at: 2019-09-18 00:02:39  
Local clock offset: -3.289 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-09-18 02:19:10

# Datalink statistics

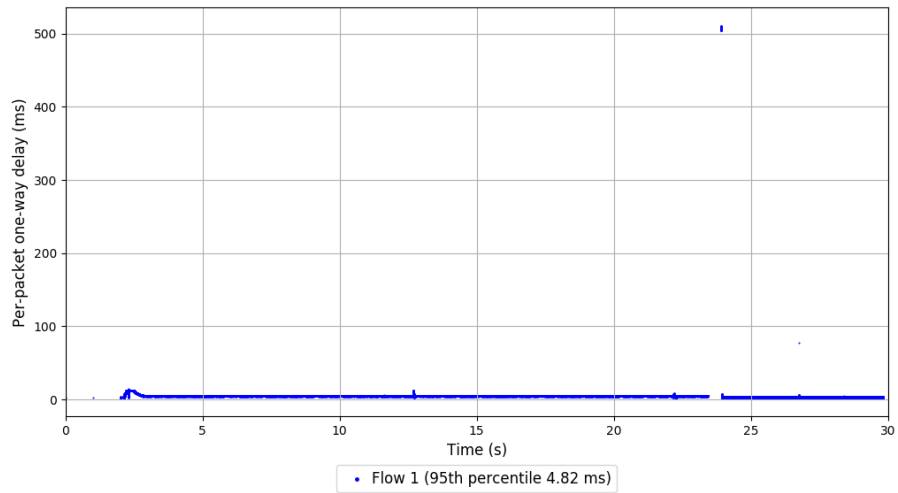
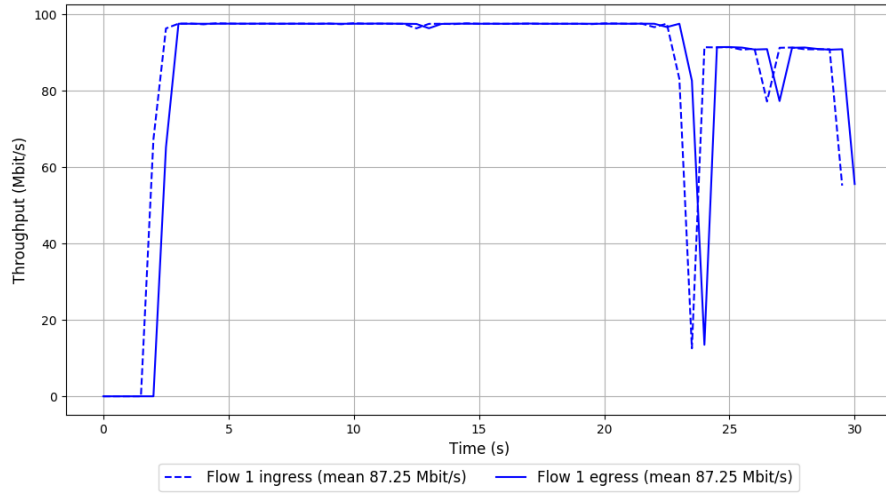
-- Total of 1 flow:

Average throughput: 87.25 Mbit/s  
95th percentile per-packet one-way delay: 4.824 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.25 Mbit/s  
95th percentile per-packet one-way delay: 4.824 ms  
Loss rate: 0.00%

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





Run 2: Statistics of Indigo

Start at: 2019-09-18 00:28:51

End at: 2019-09-18 00:29:21

Local clock offset: -5.446 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-09-18 02:19:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 5.686 ms

Loss rate: 0.00%

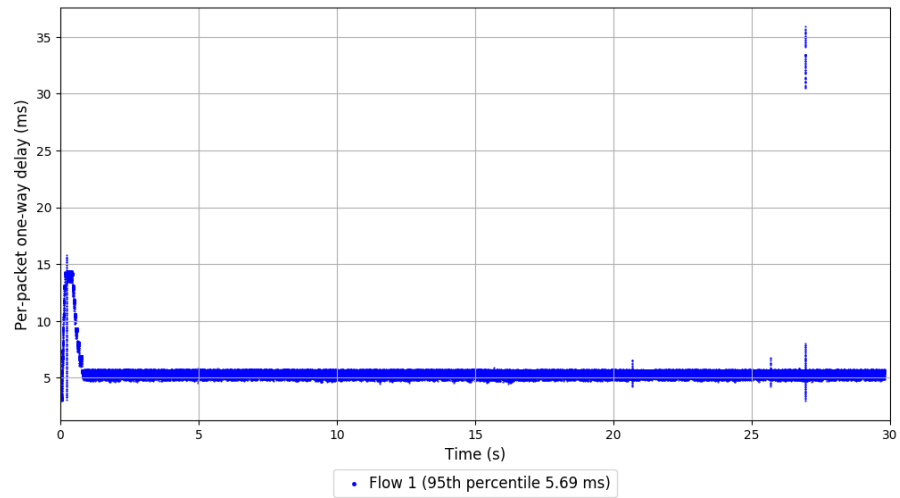
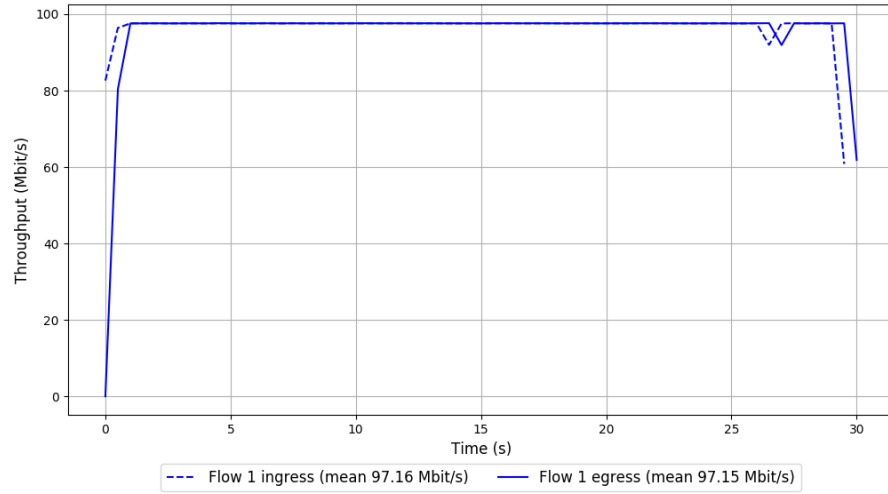
-- Flow 1:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 5.686 ms

Loss rate: 0.00%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-09-18 00:55:32

End at: 2019-09-18 00:56:02

Local clock offset: -5.033 ms

Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2019-09-18 02:19:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 3.877 ms

Loss rate: 0.00%

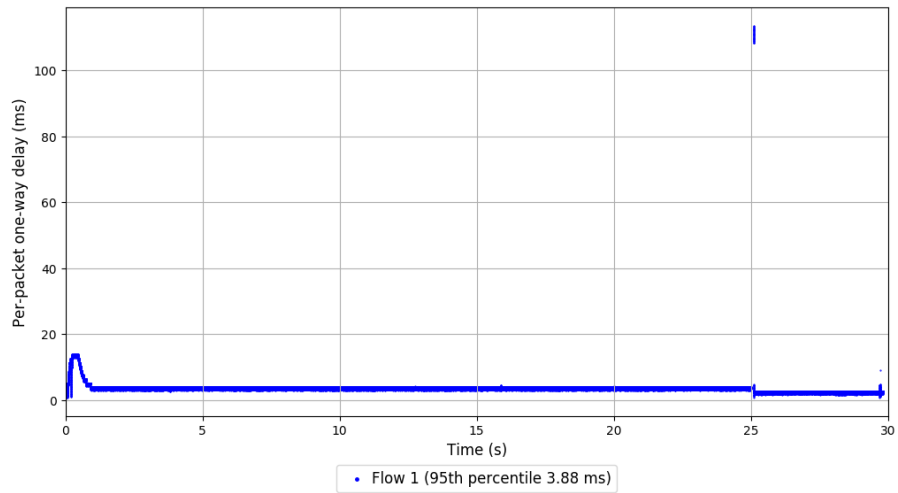
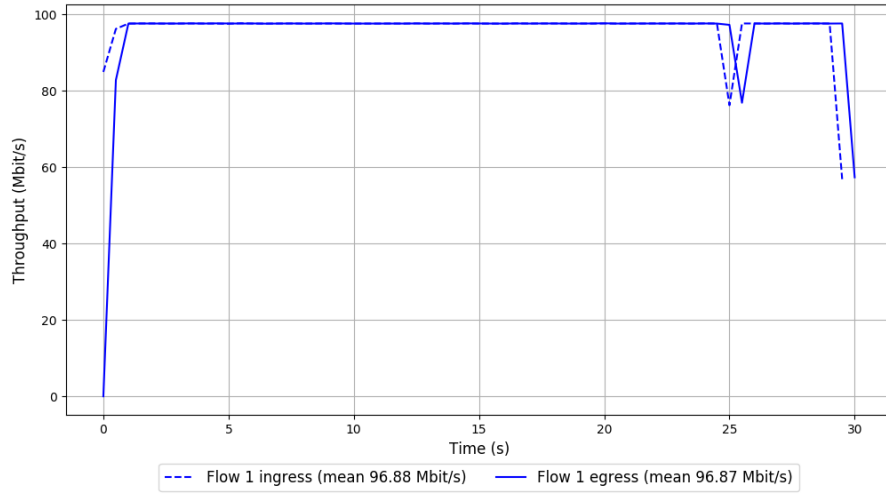
-- Flow 1:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 3.877 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo

Start at: 2019-09-18 01:22:10

End at: 2019-09-18 01:22:40

Local clock offset: 2.691 ms

Remote clock offset: 0.576 ms

# Below is generated by plot.py at 2019-09-18 02:19:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 4.722 ms

Loss rate: 0.00%

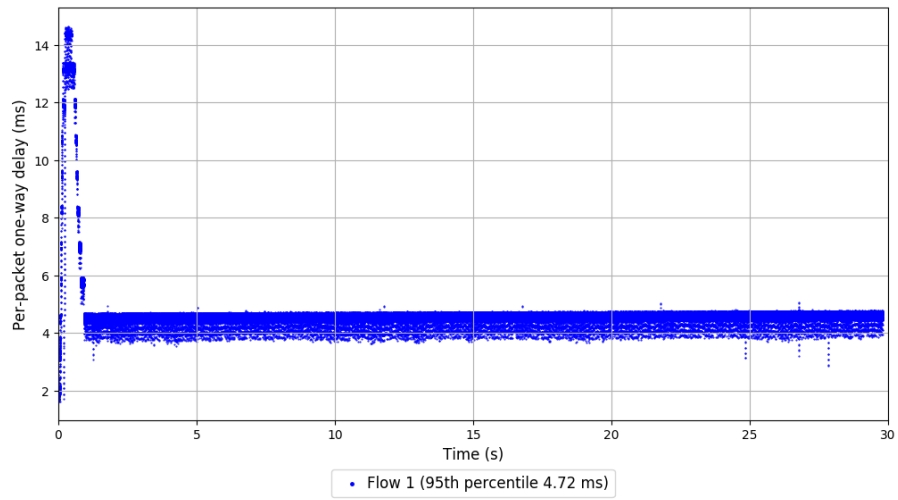
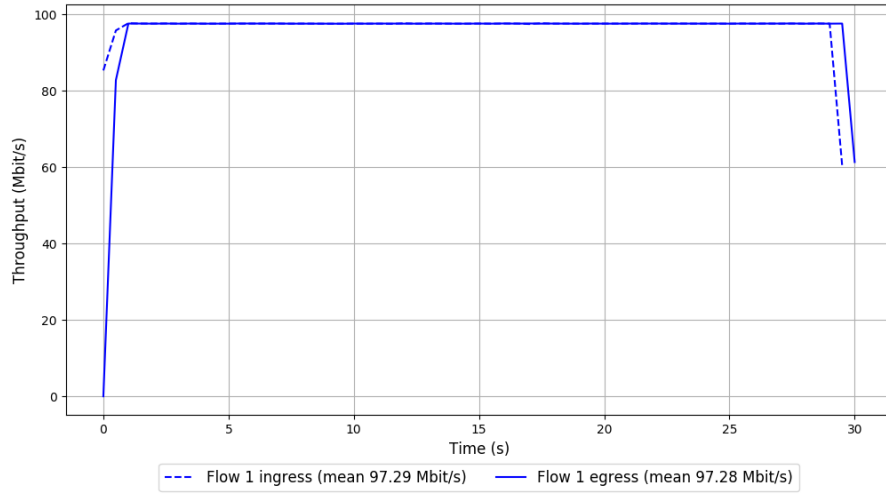
-- Flow 1:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 4.722 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo

Start at: 2019-09-18 01:48:49

End at: 2019-09-18 01:49:19

Local clock offset: 4.673 ms

Remote clock offset: 0.565 ms

# Below is generated by plot.py at 2019-09-18 02:19:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 5.896 ms

Loss rate: 0.00%

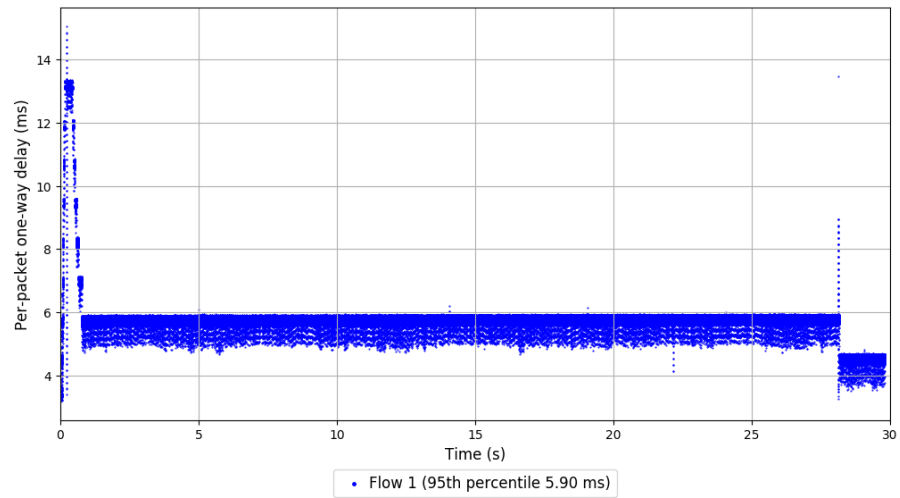
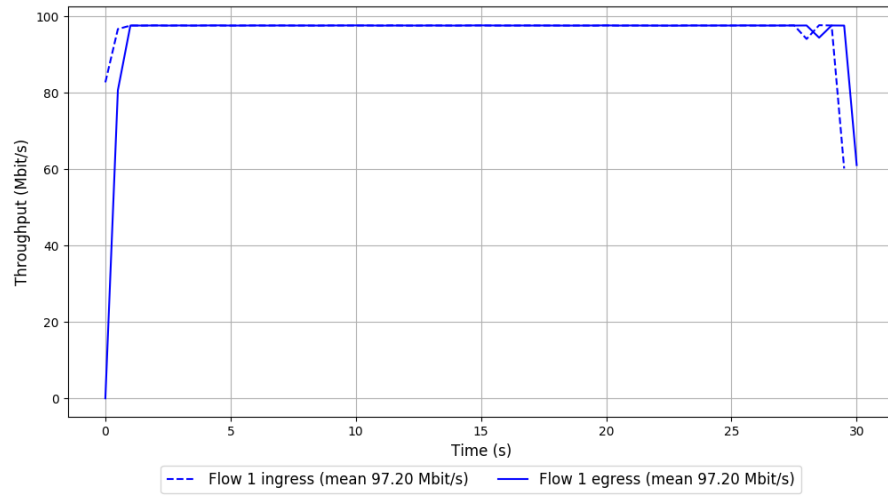
-- Flow 1:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 5.896 ms

Loss rate: 0.00%

## Run 5: Report of Indigo — Data Link





Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 00:15:31

End at: 2019-09-18 00:16:01

Local clock offset: -4.572 ms

Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2019-09-18 02:19:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 17.252 ms

Loss rate: 0.00%

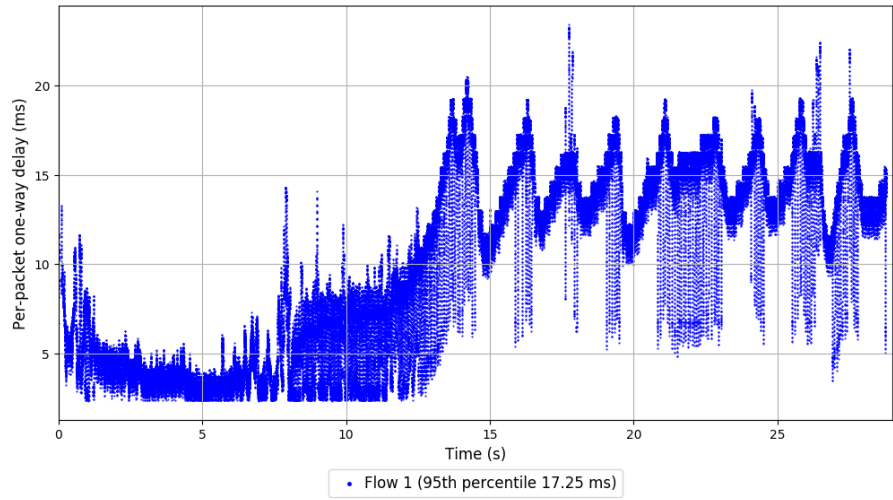
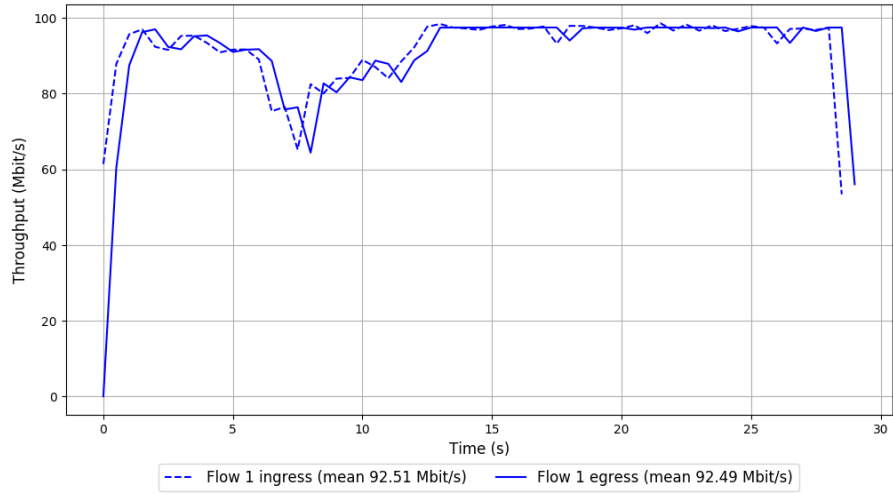
-- Flow 1:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 17.252 ms

Loss rate: 0.00%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 00:42:10

End at: 2019-09-18 00:42:40

Local clock offset: -5.734 ms

Remote clock offset: 0.388 ms

# Below is generated by plot.py at 2019-09-18 02:20:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 3.873 ms

Loss rate: 0.00%

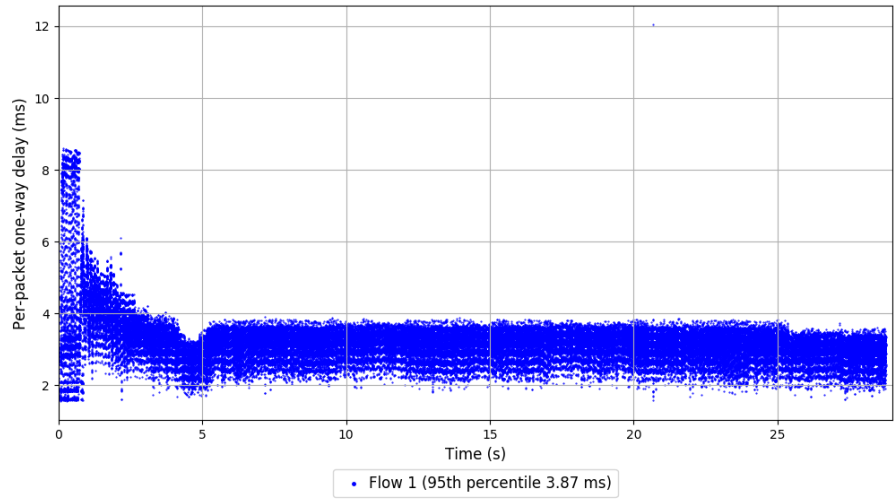
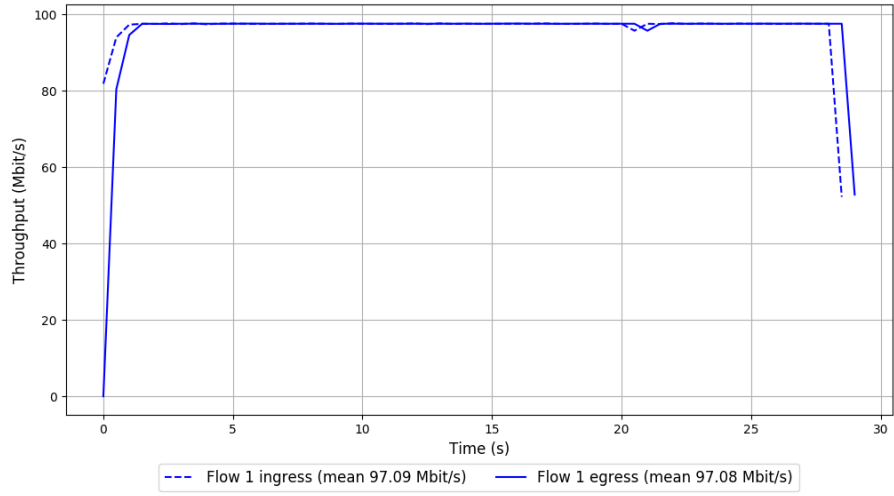
-- Flow 1:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 3.873 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-18 01:08:50

End at: 2019-09-18 01:09:20

Local clock offset: -0.001 ms

Remote clock offset: 0.546 ms

# Below is generated by plot.py at 2019-09-18 02:20:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 3.354 ms

Loss rate: 0.00%

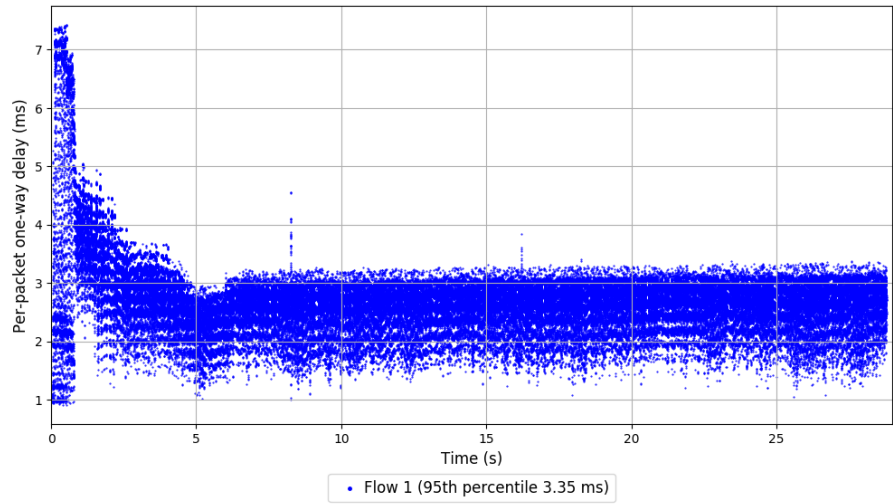
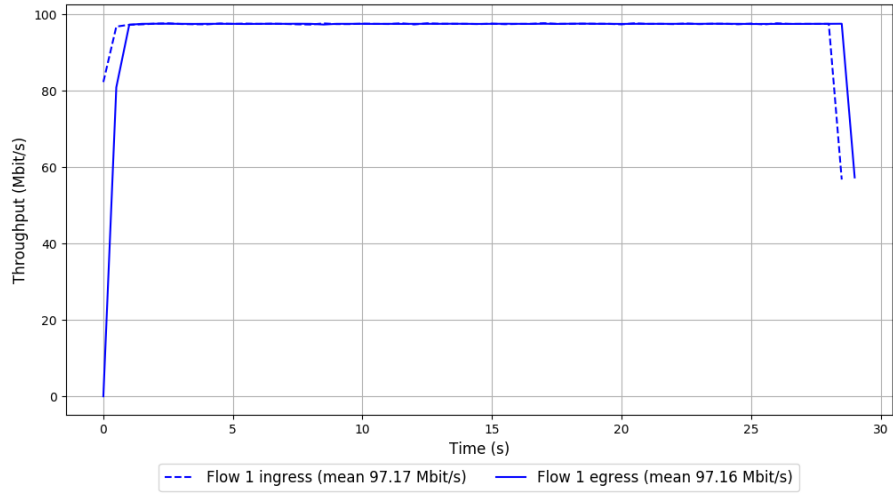
-- Flow 1:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 3.354 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-18 01:35:27

End at: 2019-09-18 01:35:57

Local clock offset: 3.948 ms

Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2019-09-18 02:20:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 4.019 ms

Loss rate: 0.00%

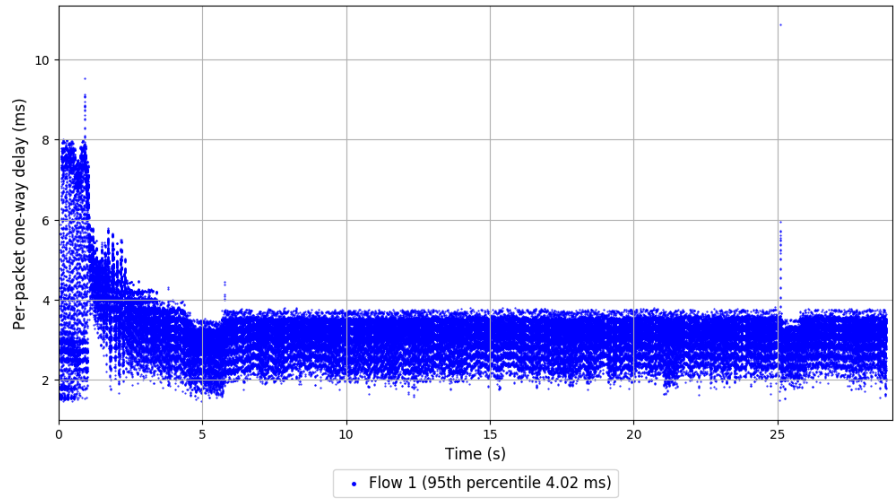
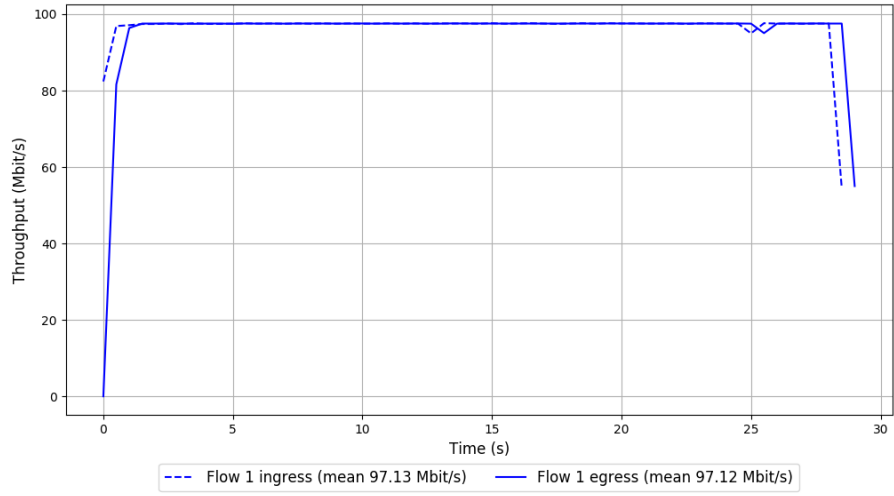
-- Flow 1:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 4.019 ms

Loss rate: 0.00%

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





Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-18 02:02:07

End at: 2019-09-18 02:02:37

Local clock offset: 4.642 ms

Remote clock offset: 0.552 ms

# Below is generated by plot.py at 2019-09-18 02:20:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 2.466 ms

Loss rate: 0.00%

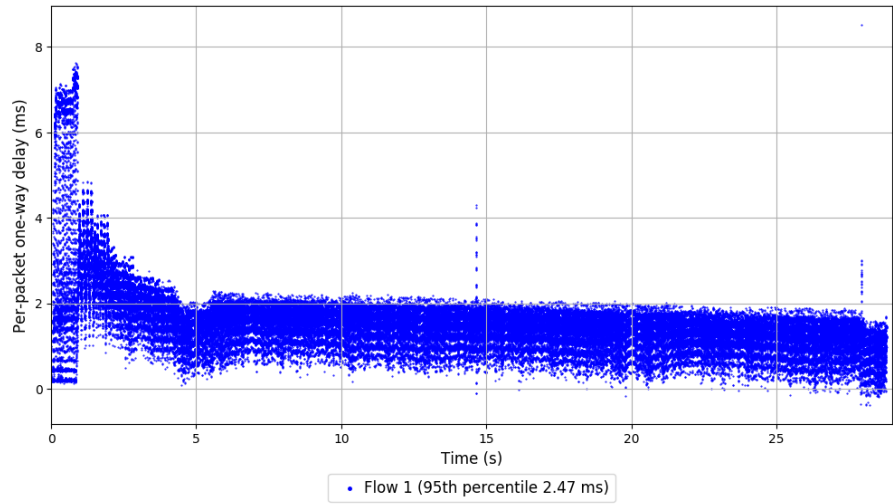
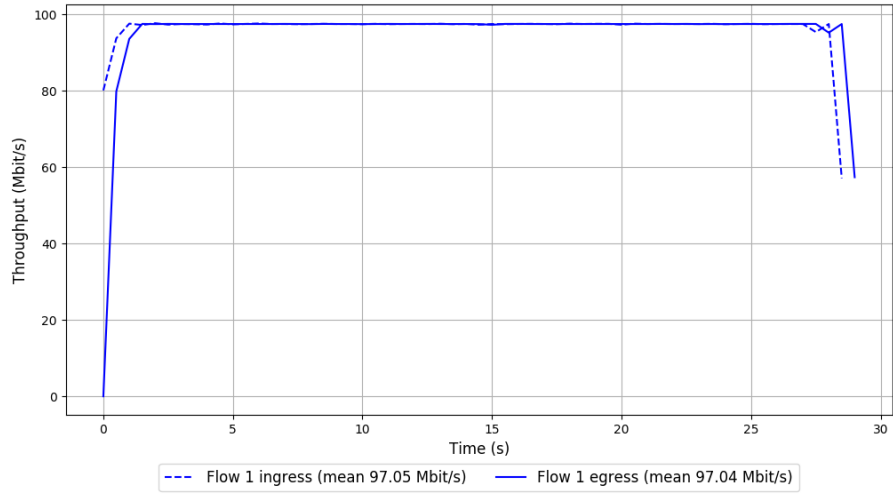
-- Flow 1:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 2.466 ms

Loss rate: 0.00%

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



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 00:06:43

End at: 2019-09-18 00:07:13

Local clock offset: -4.009 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-09-18 02:20:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 5.682 ms

Loss rate: 0.00%

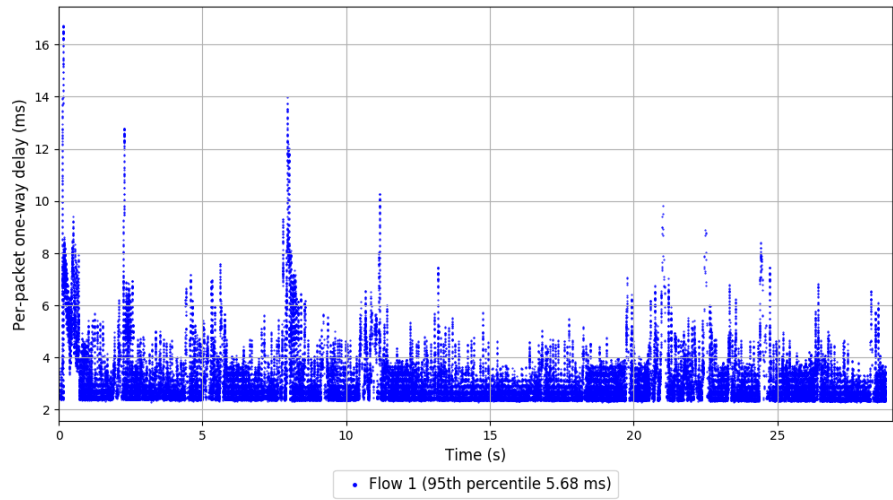
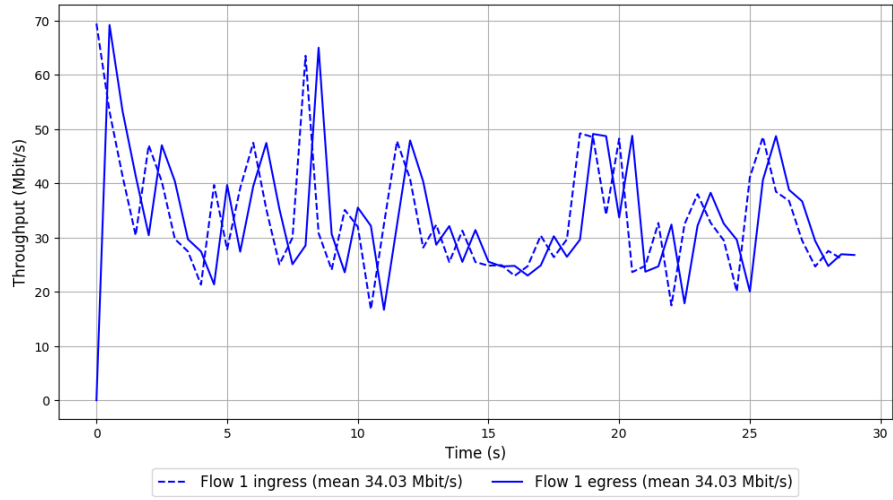
-- Flow 1:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 5.682 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 00:33:21

End at: 2019-09-18 00:33:51

Local clock offset: -5.635 ms

Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2019-09-18 02:20:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.73 Mbit/s

95th percentile per-packet one-way delay: 4.364 ms

Loss rate: 0.00%

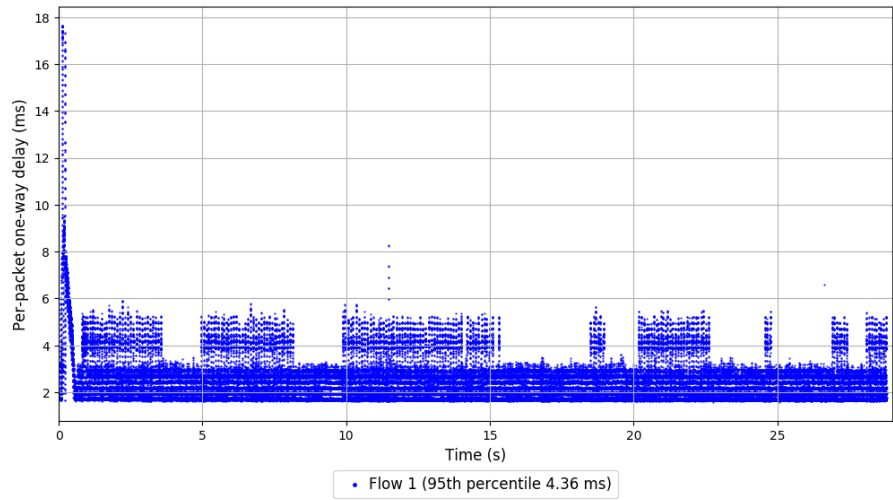
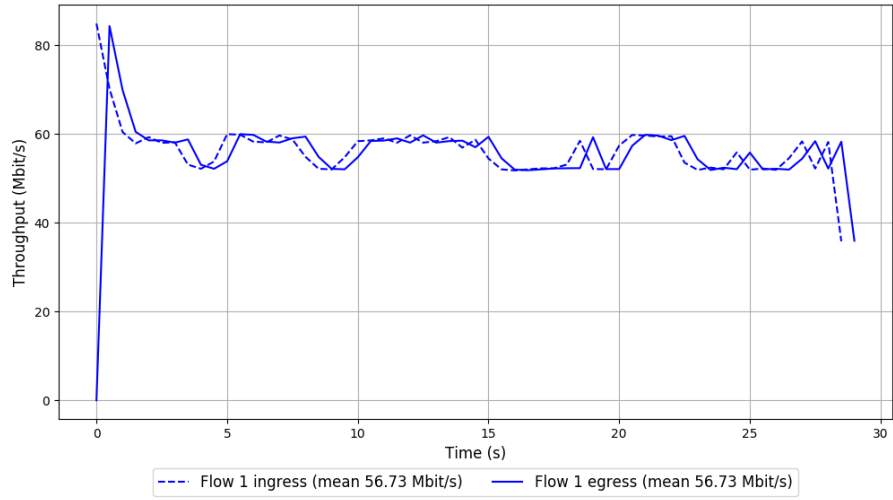
-- Flow 1:

Average throughput: 56.73 Mbit/s

95th percentile per-packet one-way delay: 4.364 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-18 01:00:02

End at: 2019-09-18 01:00:32

Local clock offset: -5.017 ms

Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2019-09-18 02:20:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 27.96 Mbit/s

95th percentile per-packet one-way delay: 3.707 ms

Loss rate: 0.00%

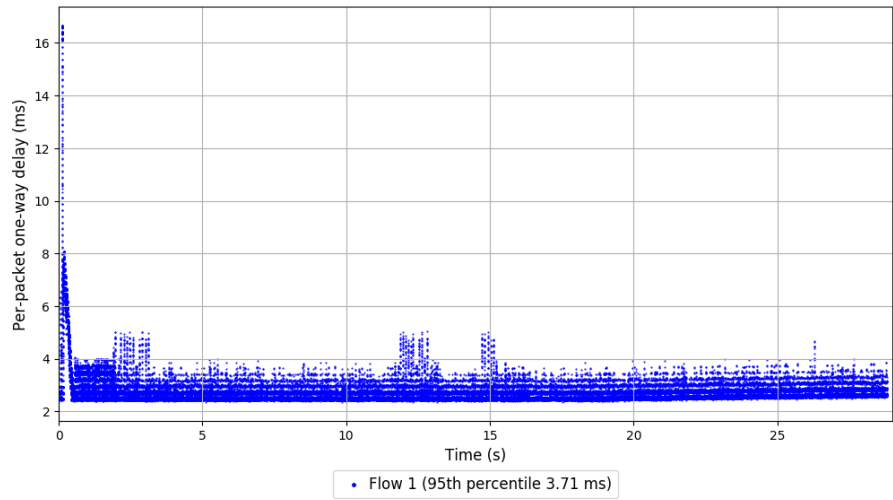
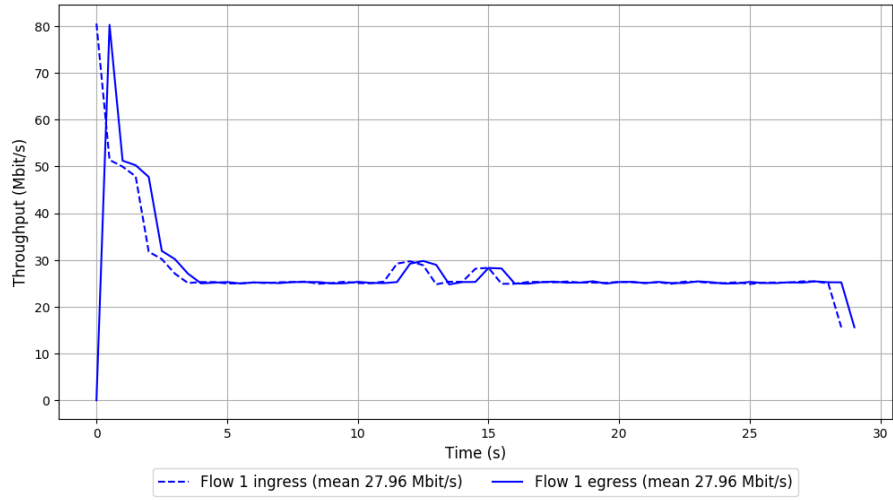
-- Flow 1:

Average throughput: 27.96 Mbit/s

95th percentile per-packet one-way delay: 3.707 ms

Loss rate: 0.00%

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





Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-18 01:26:40

End at: 2019-09-18 01:27:10

Local clock offset: 3.392 ms

Remote clock offset: 0.619 ms

# Below is generated by plot.py at 2019-09-18 02:20:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 27.74 Mbit/s

95th percentile per-packet one-way delay: 4.753 ms

Loss rate: 0.00%

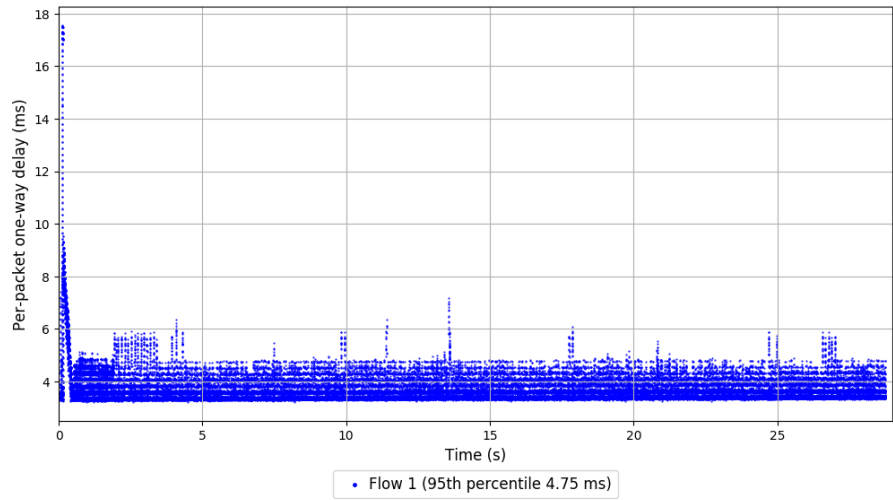
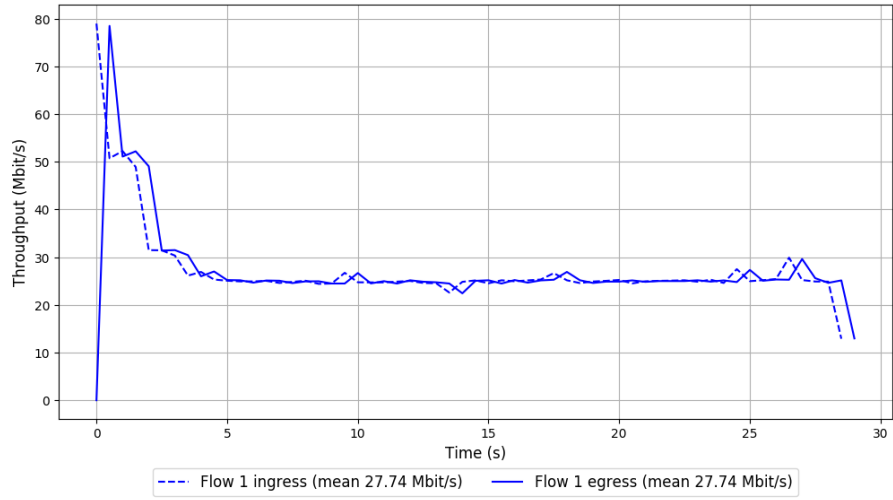
-- Flow 1:

Average throughput: 27.74 Mbit/s

95th percentile per-packet one-way delay: 4.753 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-18 01:53:19

End at: 2019-09-18 01:53:49

Local clock offset: 5.825 ms

Remote clock offset: 0.524 ms

# Below is generated by plot.py at 2019-09-18 02:20:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.28 Mbit/s

95th percentile per-packet one-way delay: 2.915 ms

Loss rate: 0.00%

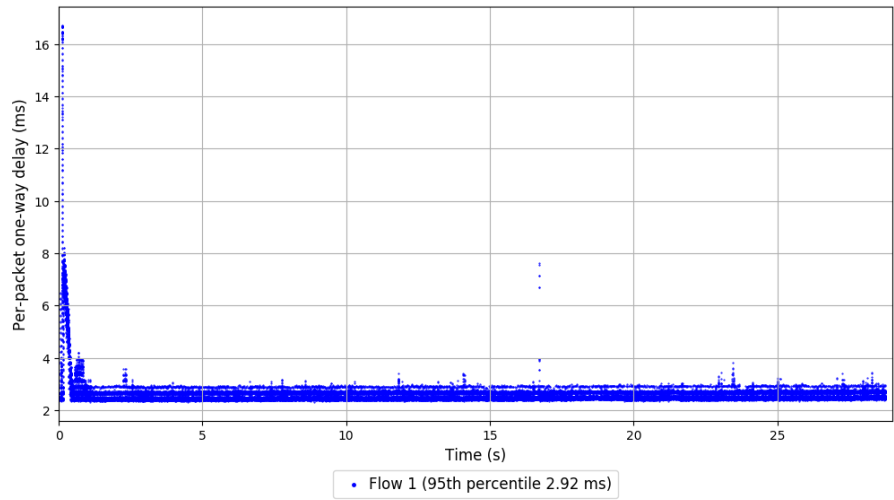
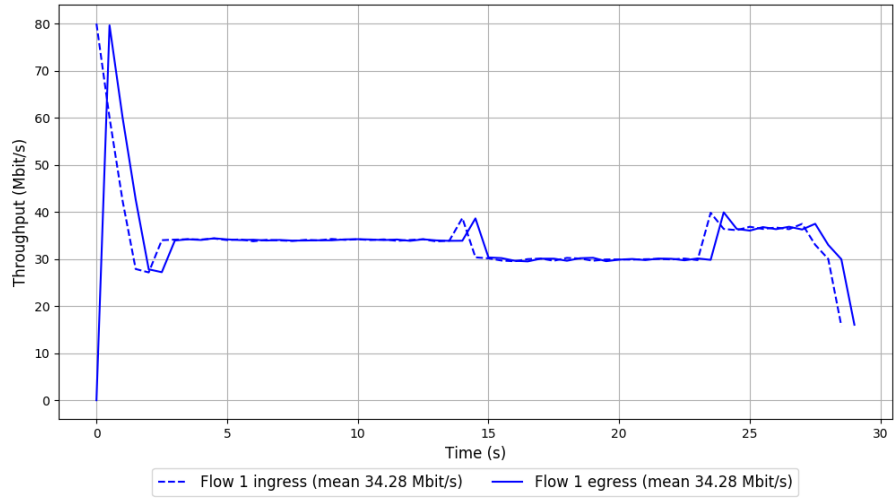
-- Flow 1:

Average throughput: 34.28 Mbit/s

95th percentile per-packet one-way delay: 2.915 ms

Loss rate: 0.00%

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



Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 00:24:24

End at: 2019-09-18 00:24:54

Local clock offset: -4.758 ms

Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2019-09-18 02:20:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 2.957 ms

Loss rate: 0.00%

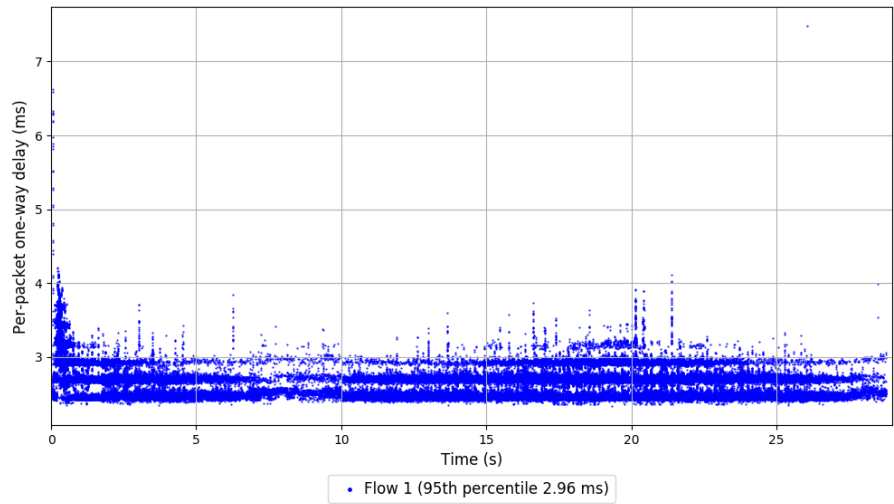
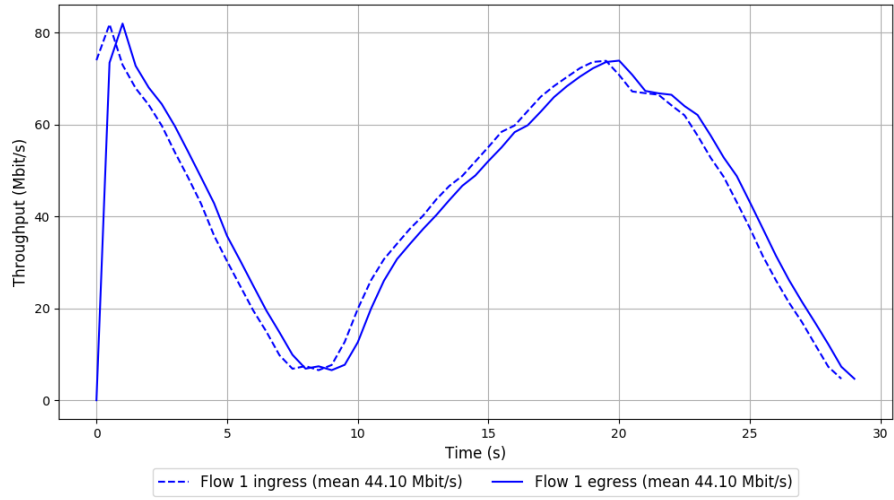
-- Flow 1:

Average throughput: 44.10 Mbit/s

95th percentile per-packet one-way delay: 2.957 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 00:51:04

End at: 2019-09-18 00:51:34

Local clock offset: -5.767 ms

Remote clock offset: 0.439 ms

# Below is generated by plot.py at 2019-09-18 02:21:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 5.183 ms

Loss rate: 0.00%

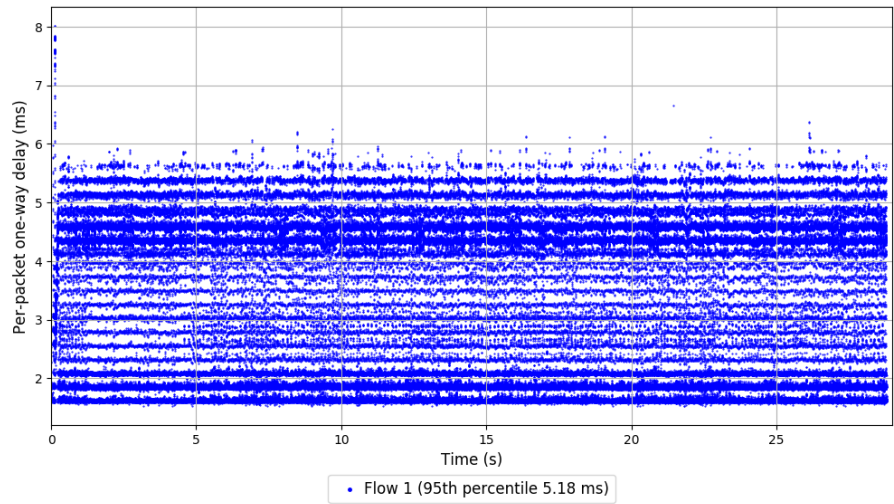
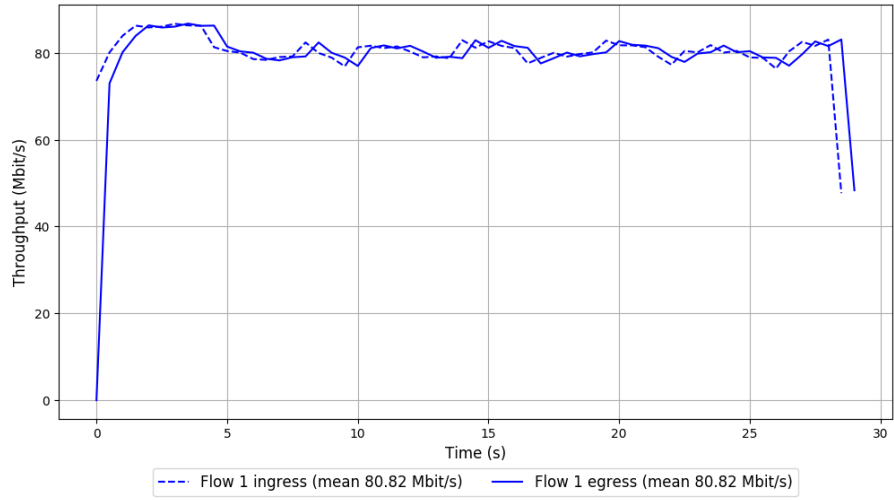
-- Flow 1:

Average throughput: 80.82 Mbit/s

95th percentile per-packet one-way delay: 5.183 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link





Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 01:17:42

End at: 2019-09-18 01:18:12

Local clock offset: 1.802 ms

Remote clock offset: 0.581 ms

# Below is generated by plot.py at 2019-09-18 02:21:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 42.18 Mbit/s

95th percentile per-packet one-way delay: 3.958 ms

Loss rate: 0.00%

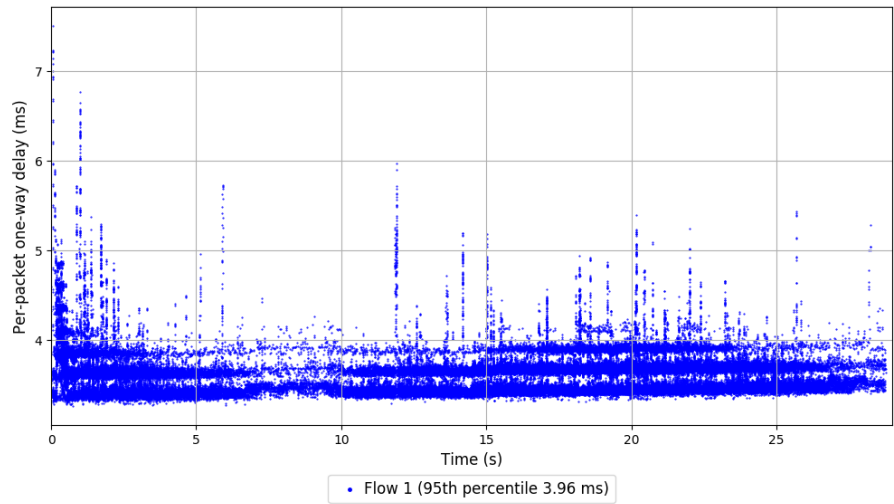
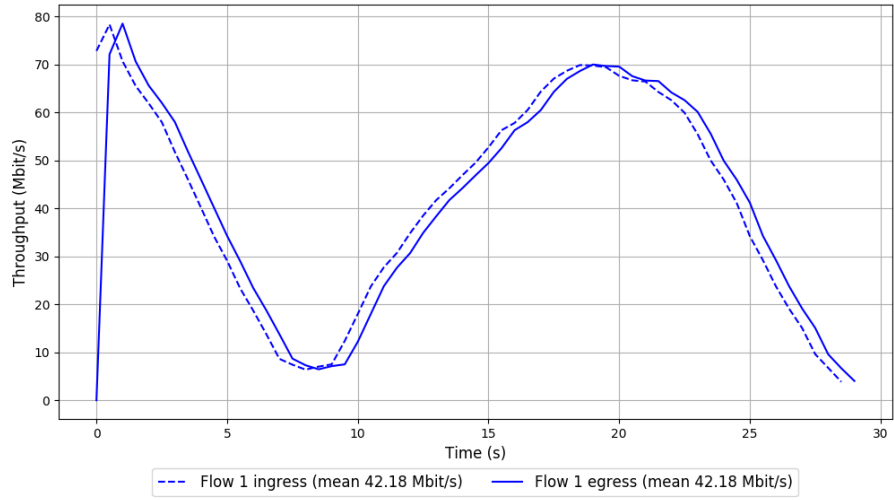
-- Flow 1:

Average throughput: 42.18 Mbit/s

95th percentile per-packet one-way delay: 3.958 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-18 01:44:22

End at: 2019-09-18 01:44:52

Local clock offset: 5.055 ms

Remote clock offset: 0.583 ms

# Below is generated by plot.py at 2019-09-18 02:21:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.41 Mbit/s

95th percentile per-packet one-way delay: 3.259 ms

Loss rate: 0.00%

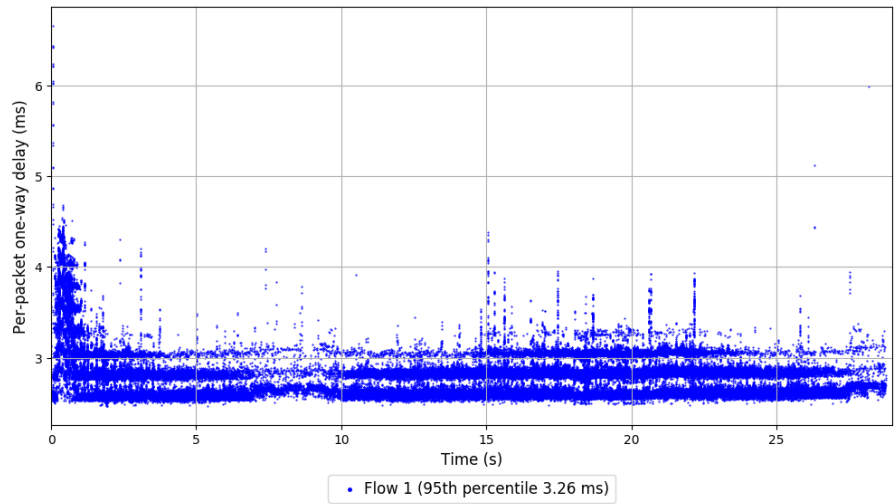
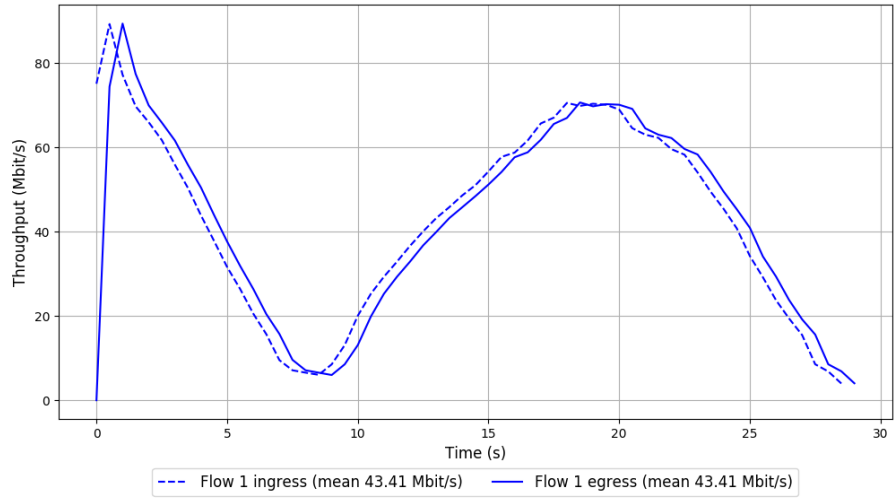
-- Flow 1:

Average throughput: 43.41 Mbit/s

95th percentile per-packet one-way delay: 3.259 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-18 02:11:01

End at: 2019-09-18 02:11:31

Local clock offset: -3.021 ms

Remote clock offset: 0.483 ms

# Below is generated by plot.py at 2019-09-18 02:21:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 2.783 ms

Loss rate: 0.00%

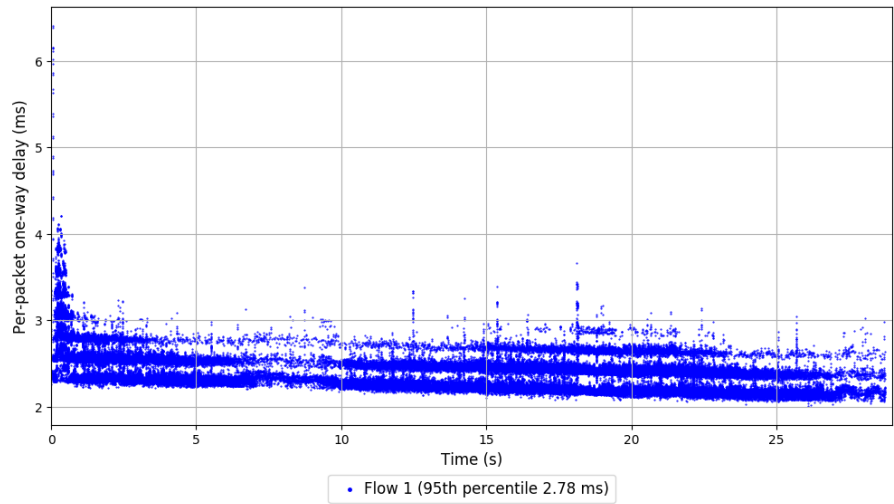
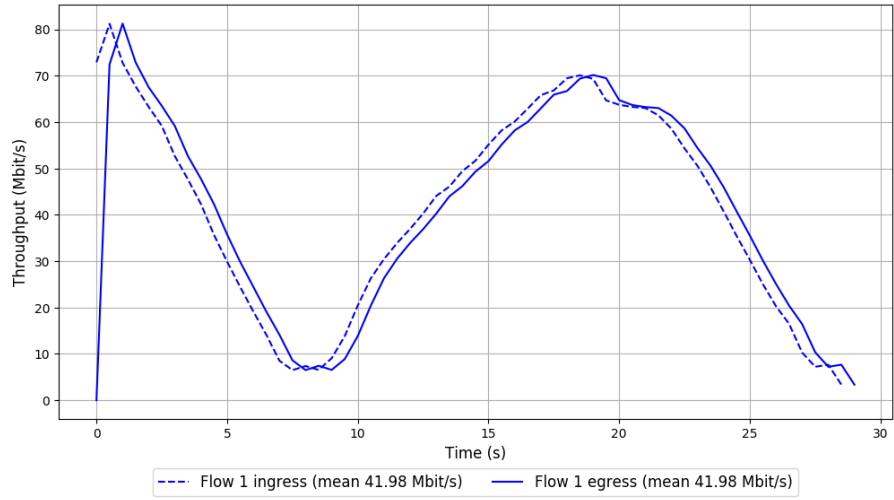
-- Flow 1:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 2.783 ms

Loss rate: 0.00%

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



Run 1: Statistics of Indigo-MuseST

Start at: 2019-09-18 00:22:11

End at: 2019-09-18 00:22:41

Local clock offset: -4.685 ms

Remote clock offset: 0.126 ms

# Below is generated by plot.py at 2019-09-18 02:21:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 2.292 ms

Loss rate: 0.00%

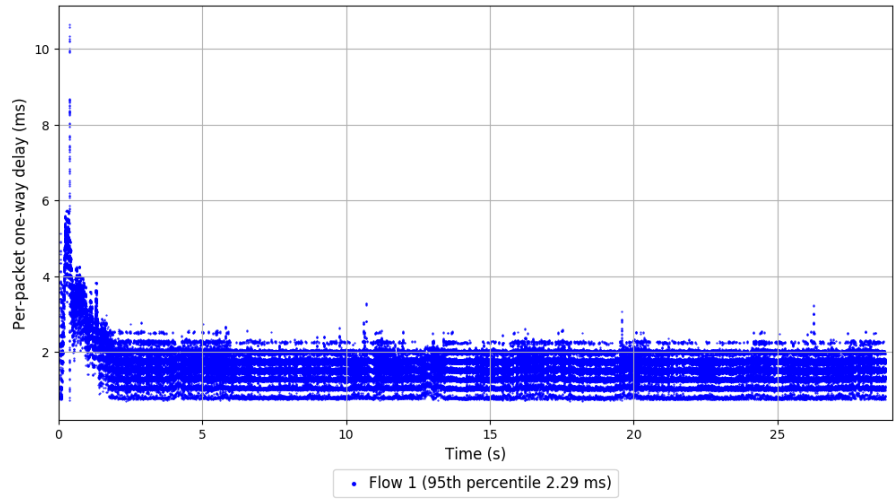
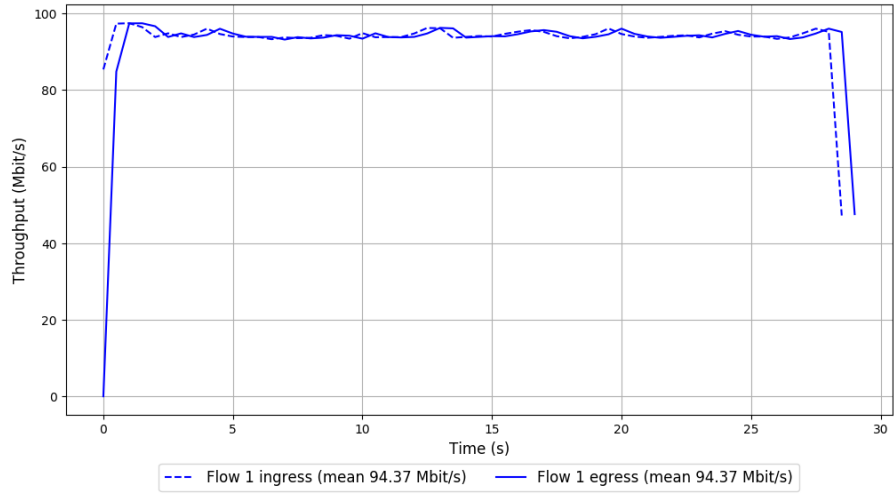
-- Flow 1:

Average throughput: 94.37 Mbit/s

95th percentile per-packet one-way delay: 2.292 ms

Loss rate: 0.00%

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





Run 2: Statistics of Indigo-MuseST

Start at: 2019-09-18 00:48:51

End at: 2019-09-18 00:49:21

Local clock offset: -5.001 ms

Remote clock offset: 0.425 ms

# Below is generated by plot.py at 2019-09-18 02:21:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 2.343 ms

Loss rate: 0.00%

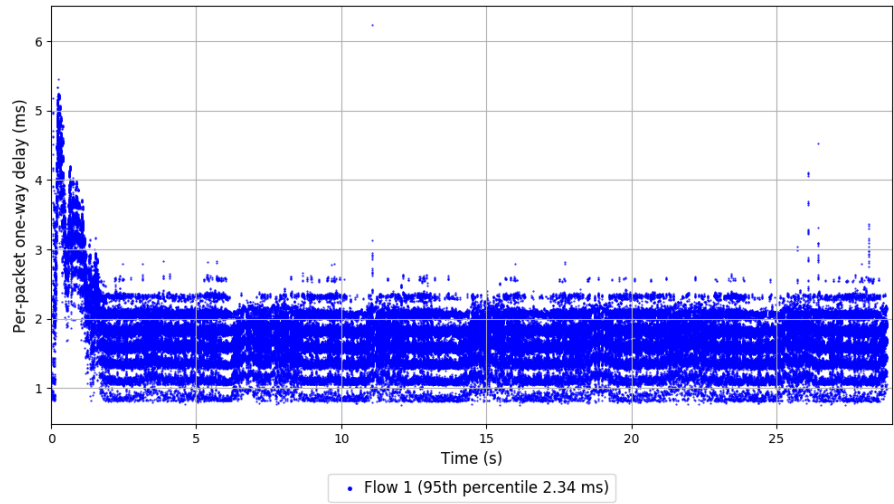
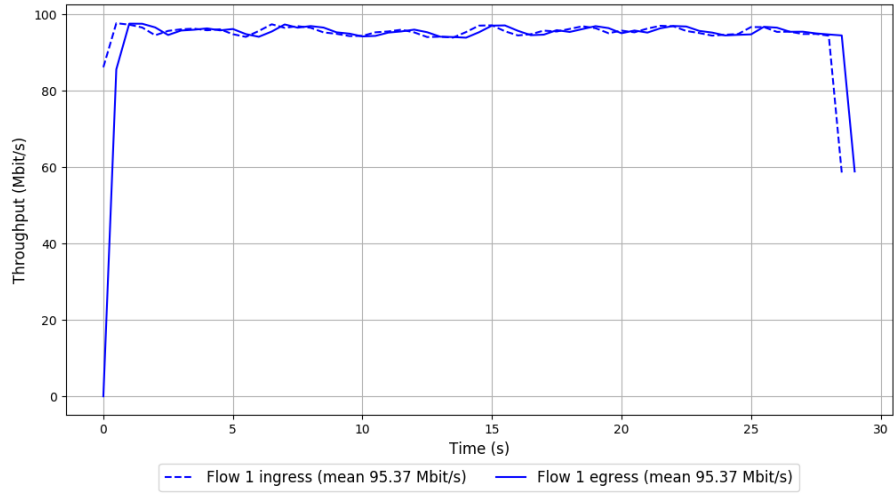
-- Flow 1:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 2.343 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-09-18 01:15:30

End at: 2019-09-18 01:16:00

Local clock offset: 2.098 ms

Remote clock offset: 0.583 ms

# Below is generated by plot.py at 2019-09-18 02:21:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 2.498 ms

Loss rate: 0.00%

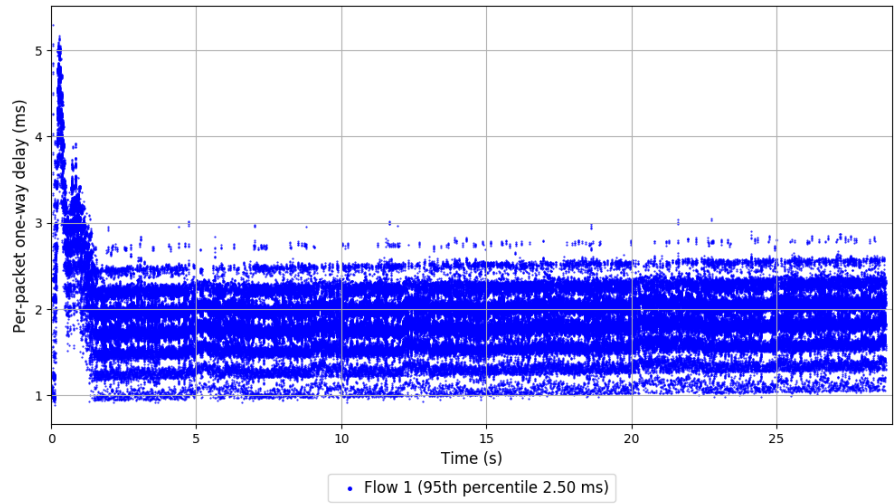
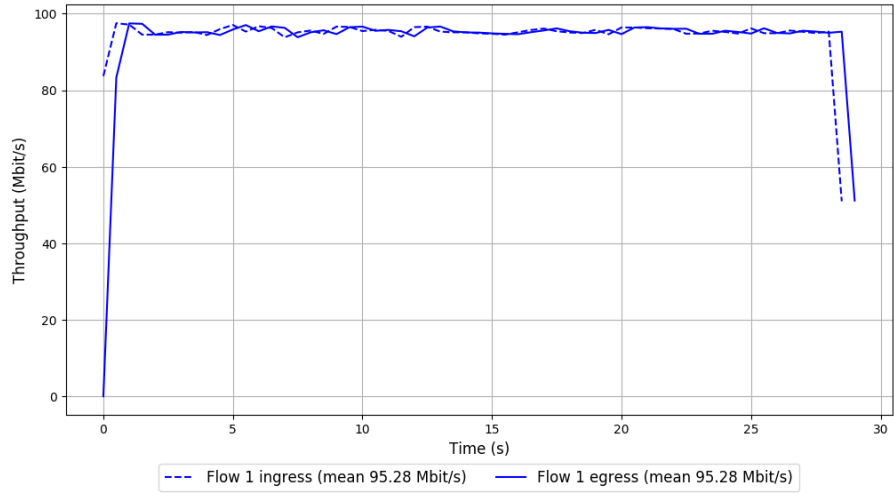
-- Flow 1:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 2.498 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-MuseST

Start at: 2019-09-18 01:42:09

End at: 2019-09-18 01:42:39

Local clock offset: 4.985 ms

Remote clock offset: 0.565 ms

# Below is generated by plot.py at 2019-09-18 02:21:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.00%

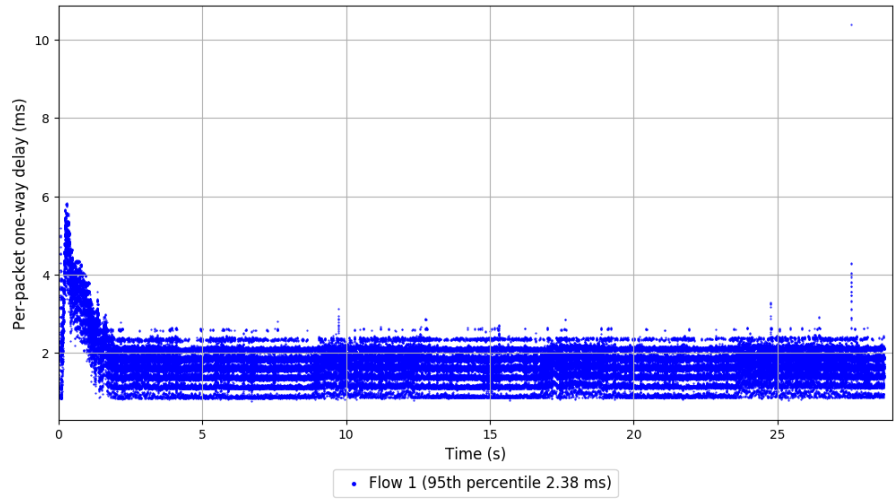
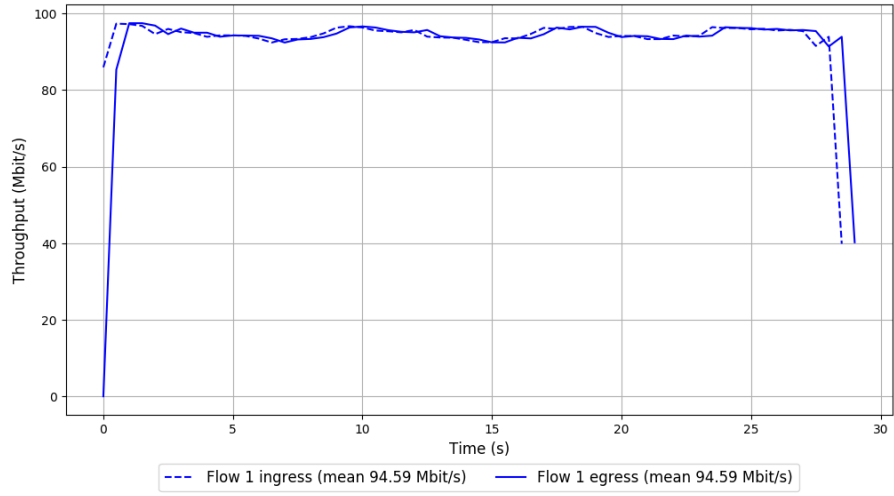
-- Flow 1:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-09-18 02:08:49

End at: 2019-09-18 02:09:19

Local clock offset: -2.481 ms

Remote clock offset: 0.49 ms

# Below is generated by plot.py at 2019-09-18 02:21:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 3.803 ms

Loss rate: 0.00%

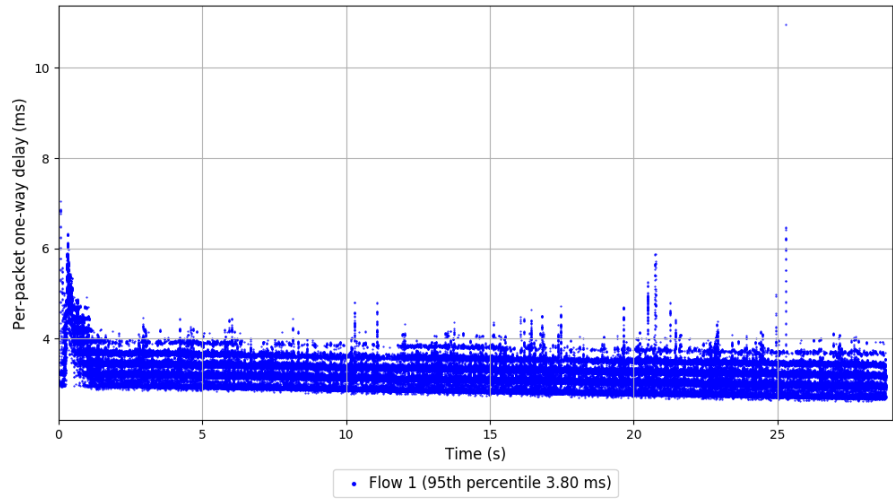
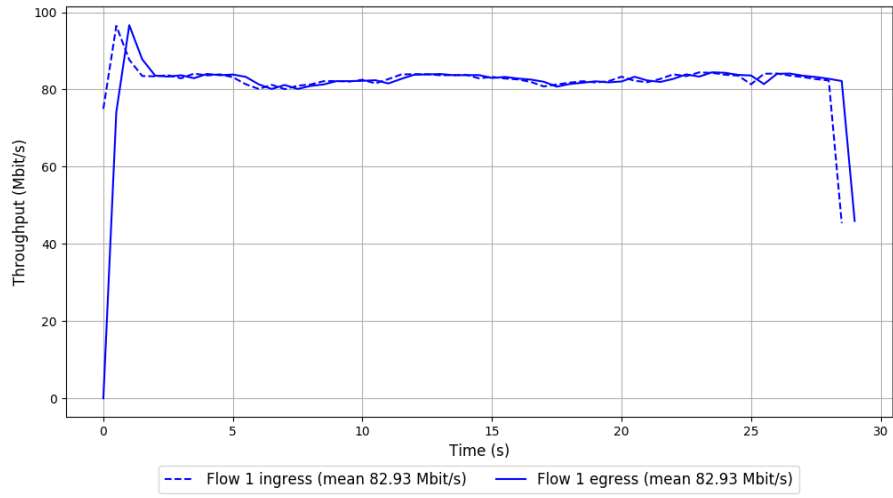
-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 3.803 ms

Loss rate: 0.00%

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





Run 1: Statistics of LEDBAT

Start at: 2019-09-18 00:26:37

End at: 2019-09-18 00:27:07

Local clock offset: -4.703 ms

Remote clock offset: 0.19 ms

# Below is generated by plot.py at 2019-09-18 02:22:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 30.579 ms

Loss rate: 0.01%

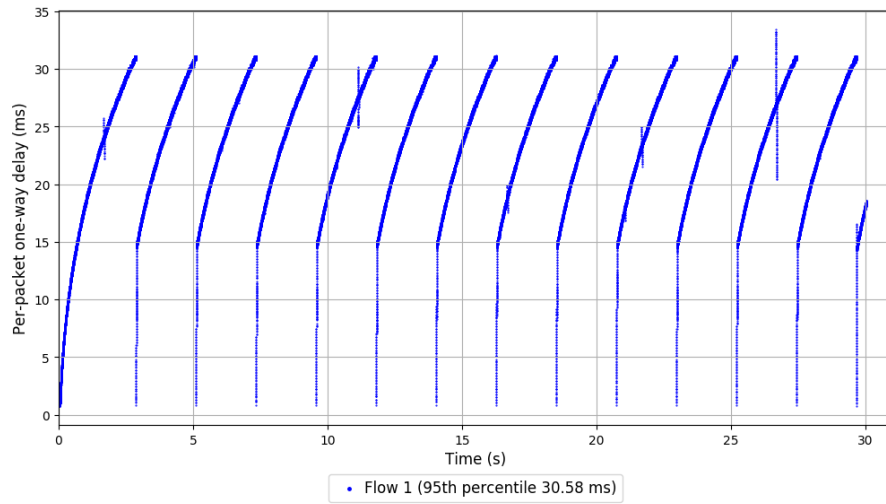
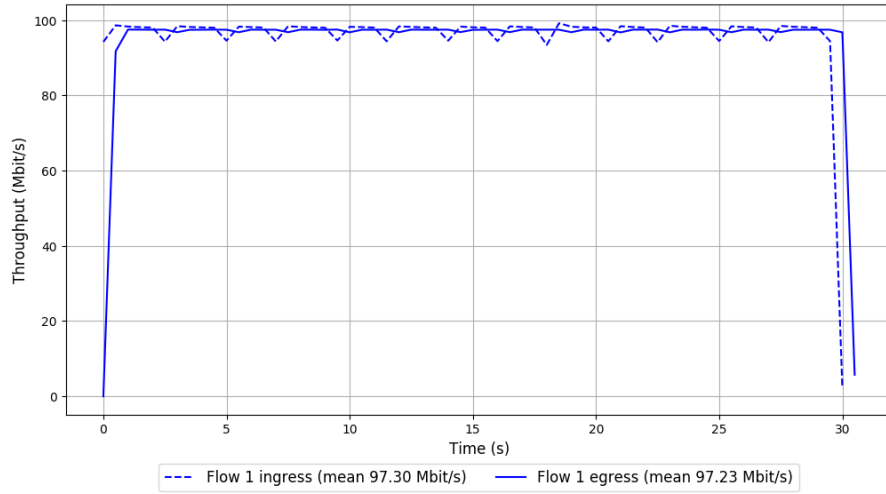
-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 30.579 ms

Loss rate: 0.01%

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



Run 2: Statistics of LEDBAT

Start at: 2019-09-18 00:53:18

End at: 2019-09-18 00:53:49

Local clock offset: -5.764 ms

Remote clock offset: 0.393 ms

# Below is generated by plot.py at 2019-09-18 02:22:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.07 Mbit/s

95th percentile per-packet one-way delay: 32.839 ms

Loss rate: 0.01%

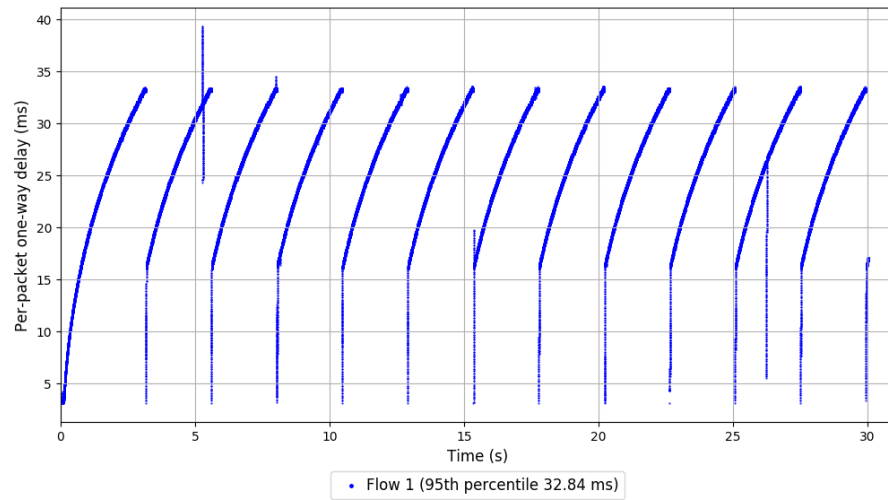
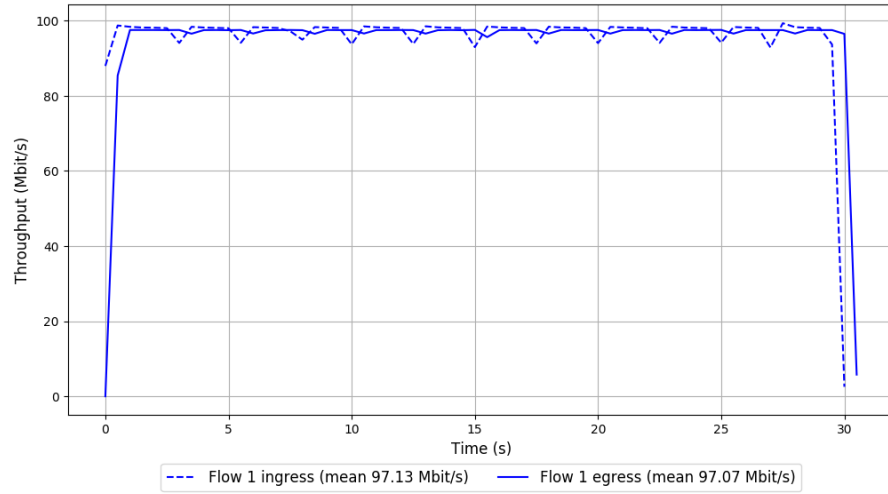
-- Flow 1:

Average throughput: 97.07 Mbit/s

95th percentile per-packet one-way delay: 32.839 ms

Loss rate: 0.01%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-09-18 01:19:56

End at: 2019-09-18 01:20:26

Local clock offset: 3.009 ms

Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2019-09-18 02:22:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 30.814 ms

Loss rate: 0.01%

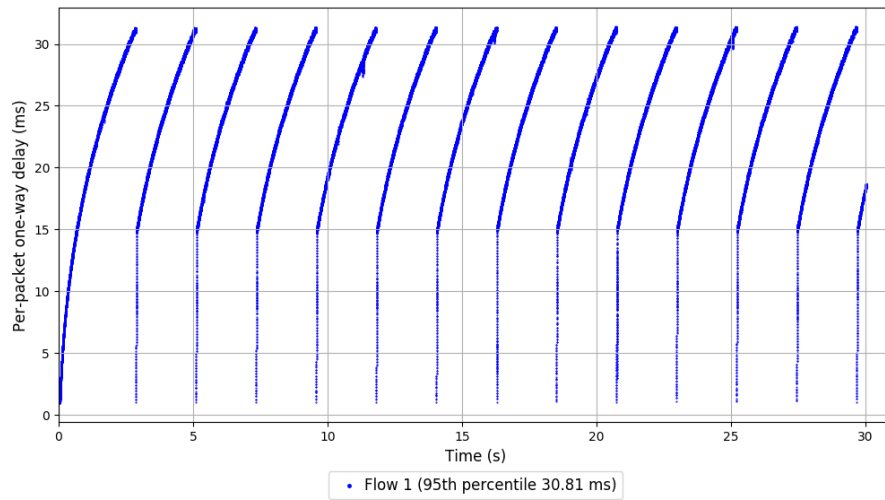
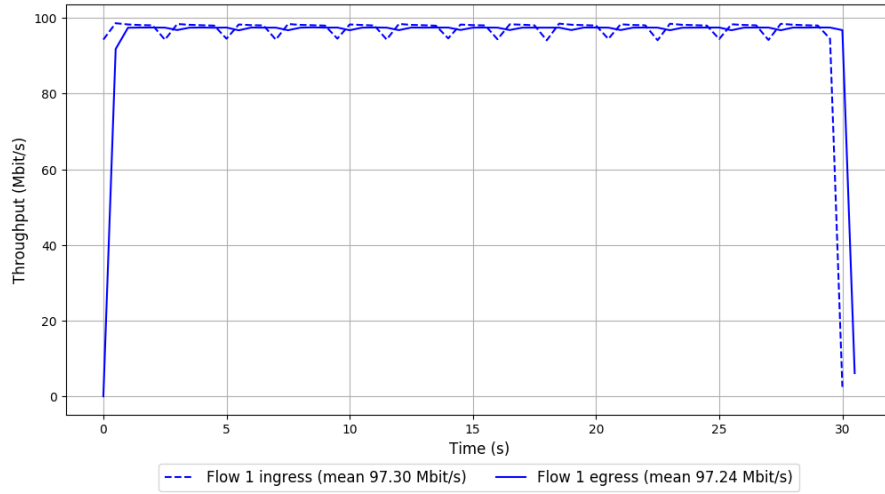
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 30.814 ms

Loss rate: 0.01%

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



Run 4: Statistics of LEDBAT

Start at: 2019-09-18 01:46:35

End at: 2019-09-18 01:47:05

Local clock offset: 5.268 ms

Remote clock offset: 0.524 ms

# Below is generated by plot.py at 2019-09-18 02:22:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 32.137 ms

Loss rate: 0.01%

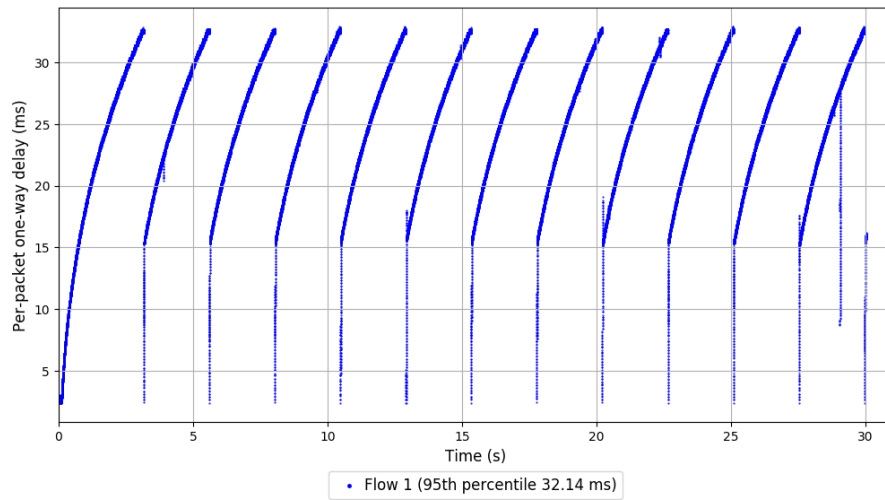
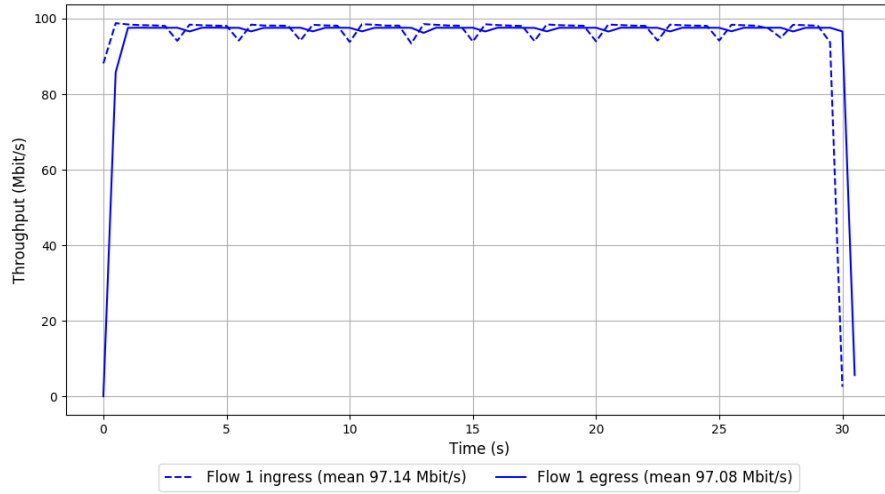
-- Flow 1:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 32.137 ms

Loss rate: 0.01%

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





Run 5: Statistics of LEDBAT

Start at: 2019-09-18 02:13:20

End at: 2019-09-18 02:13:50

Local clock offset: -4.004 ms

Remote clock offset: 0.442 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 30.327 ms

Loss rate: 0.01%

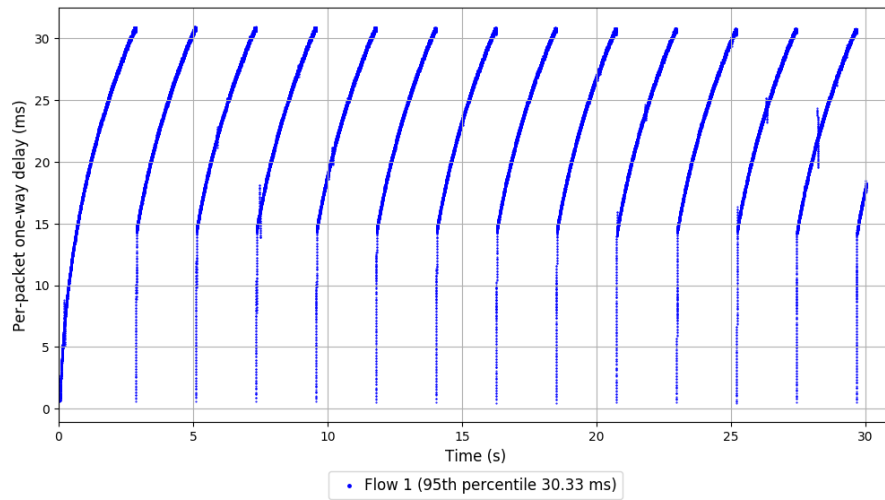
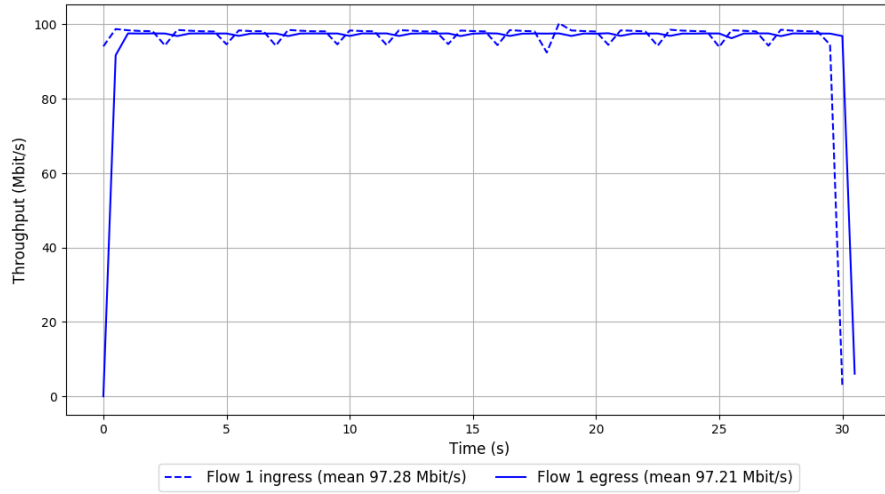
-- Flow 1:

Average throughput: 97.21 Mbit/s

95th percentile per-packet one-way delay: 30.327 ms

Loss rate: 0.01%

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



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 00:08:57

End at: 2019-09-18 00:09:27

Local clock offset: -5.072 ms

Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 1.961 ms

Loss rate: 0.00%

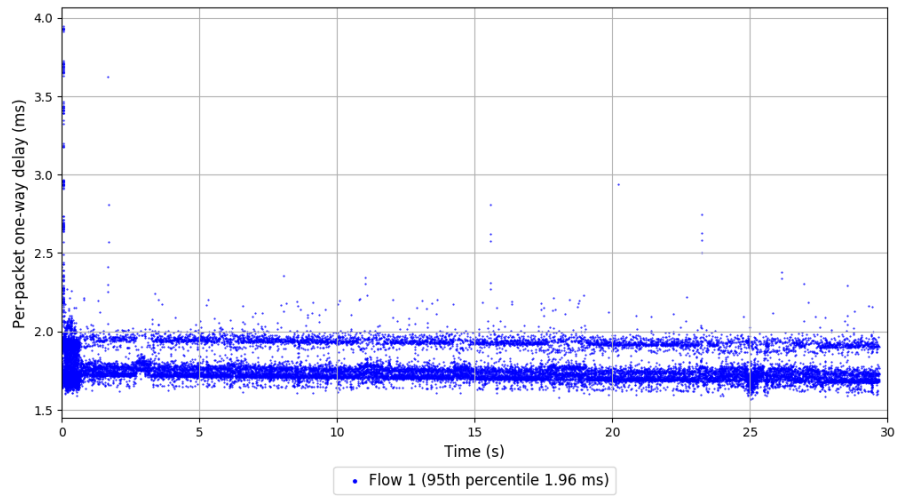
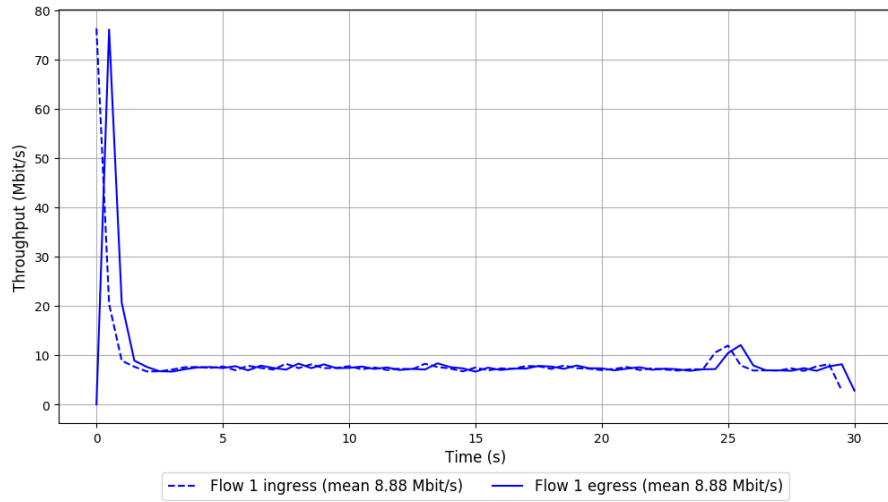
-- Flow 1:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 1.961 ms

Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTree — Data Link



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 00:35:36

End at: 2019-09-18 00:36:06

Local clock offset: -4.838 ms

Remote clock offset: 0.256 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.00%

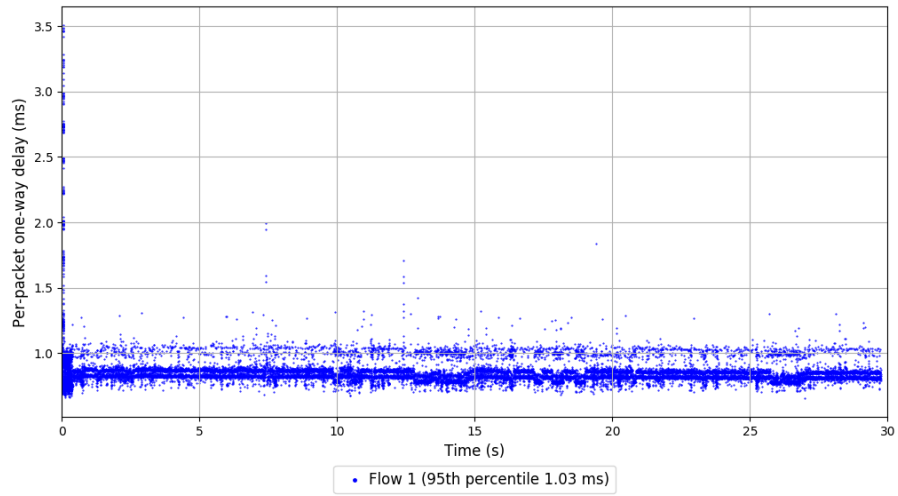
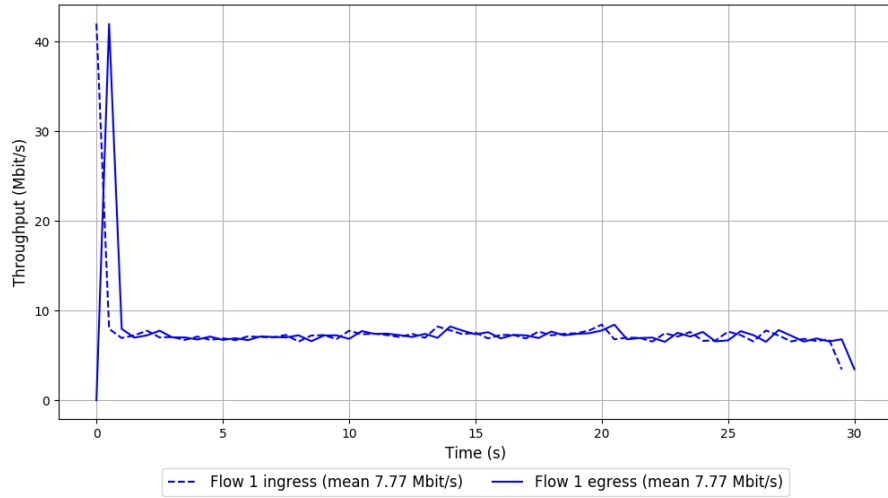
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 01:02:17

End at: 2019-09-18 01:02:47

Local clock offset: -4.588 ms

Remote clock offset: 0.426 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.14 Mbit/s

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

Loss rate: 0.00%

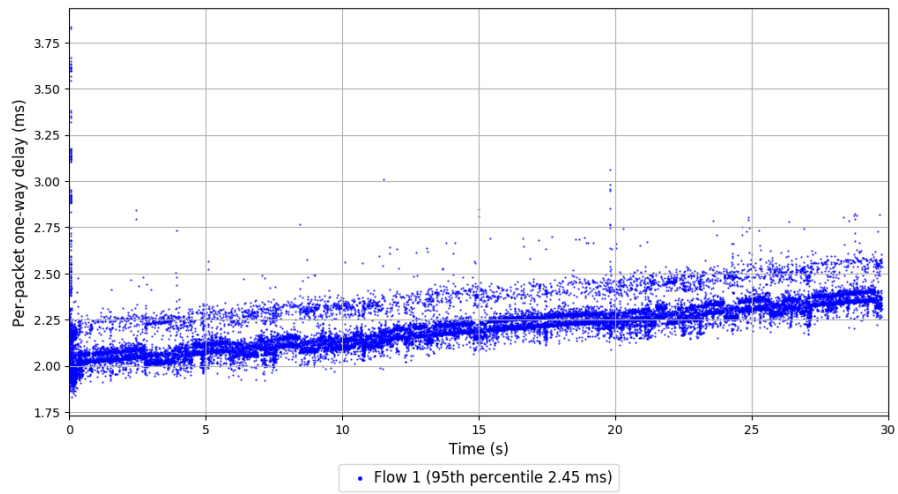
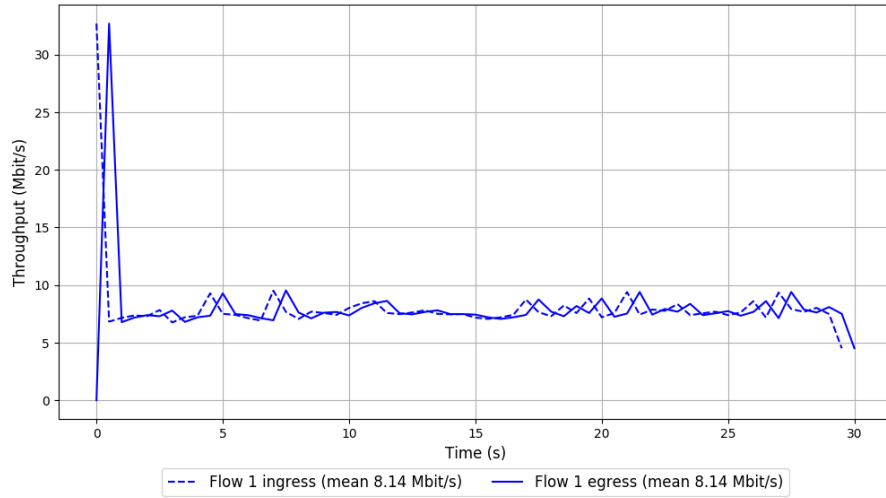
-- Flow 1:

Average throughput: 8.14 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTree — Data Link





Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 01:28:54

End at: 2019-09-18 01:29:24

Local clock offset: 3.684 ms

Remote clock offset: 0.519 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 3.604 ms

Loss rate: 0.00%

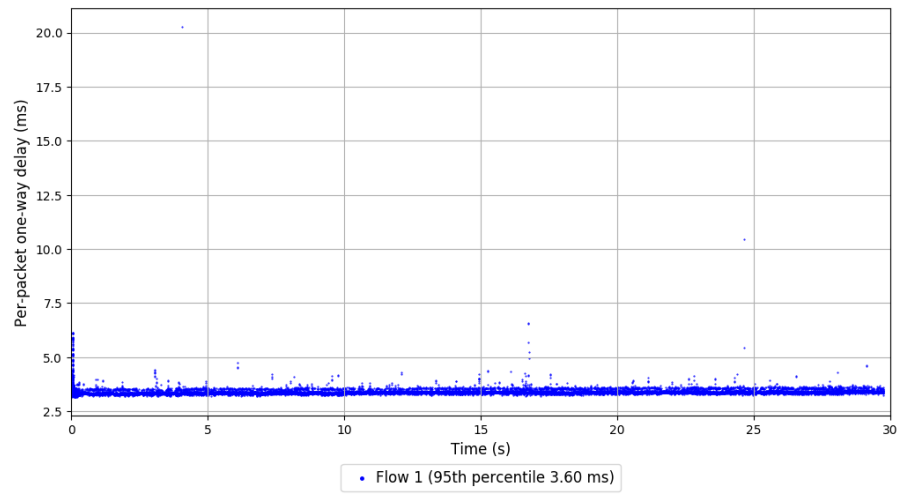
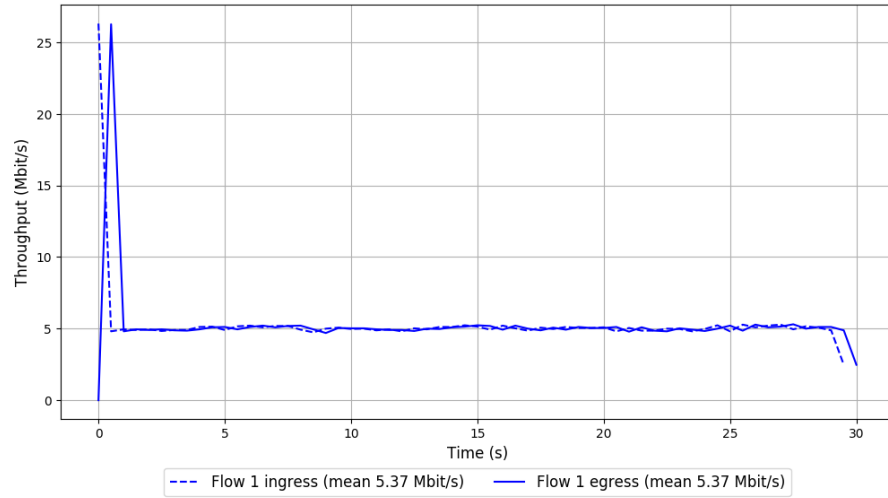
-- Flow 1:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 3.604 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 01:55:34

End at: 2019-09-18 01:56:04

Local clock offset: 5.166 ms

Remote clock offset: 0.468 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.99 Mbit/s

95th percentile per-packet one-way delay: 1.919 ms

Loss rate: 0.00%

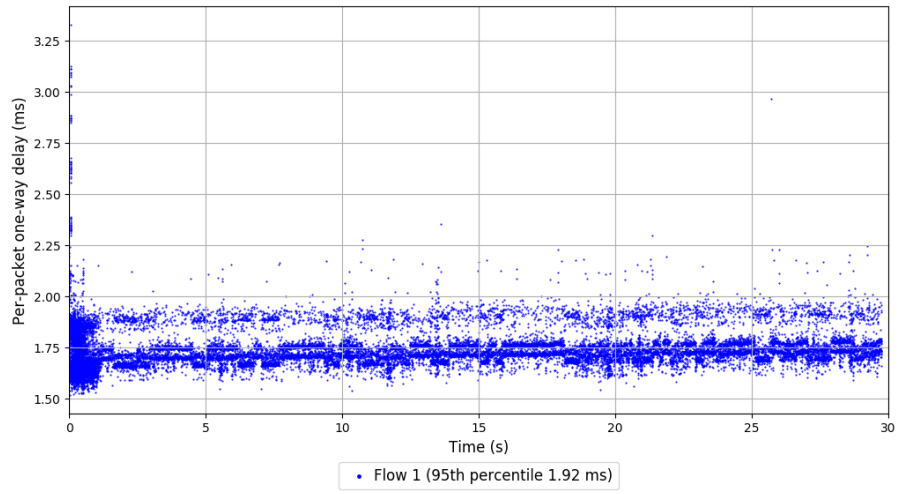
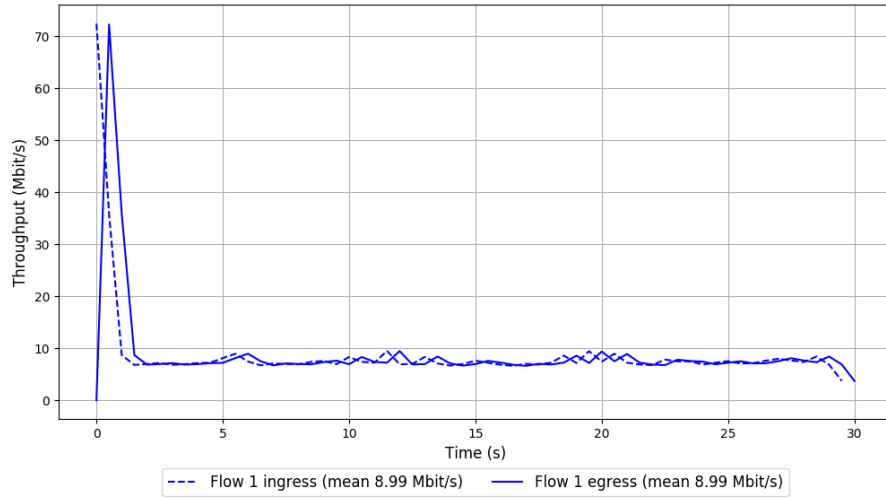
-- Flow 1:

Average throughput: 8.99 Mbit/s

95th percentile per-packet one-way delay: 1.919 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 00:23:19

End at: 2019-09-18 00:23:49

Local clock offset: -4.703 ms

Remote clock offset: 0.201 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 3.559 ms

Loss rate: 0.00%

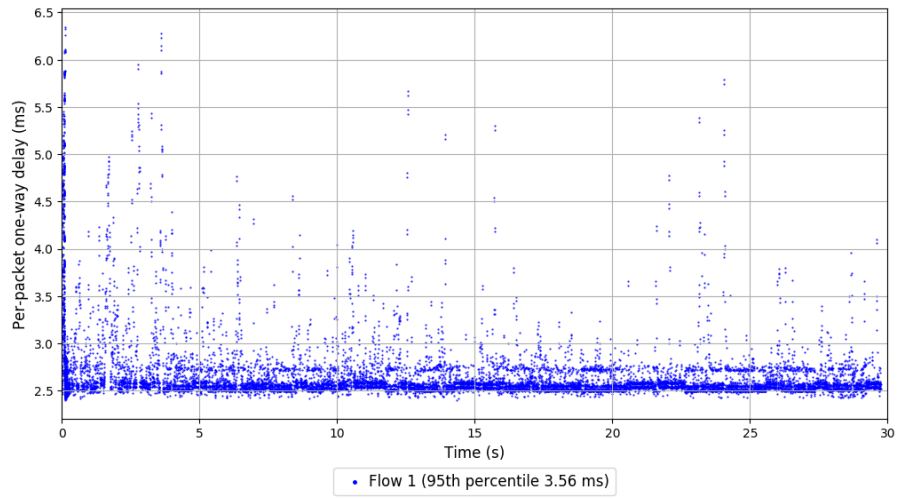
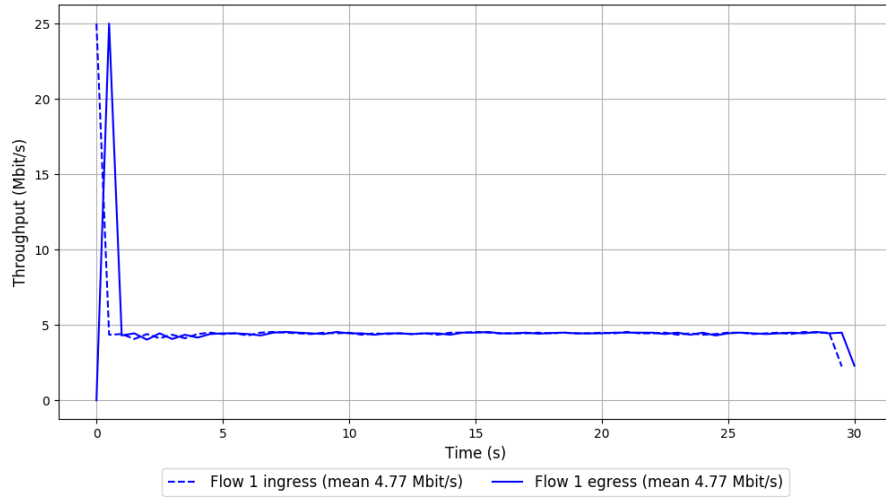
-- Flow 1:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 3.559 ms

Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 00:49:59

End at: 2019-09-18 00:50:29

Local clock offset: -5.796 ms

Remote clock offset: 0.386 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.48 Mbit/s

95th percentile per-packet one-way delay: 1.893 ms

Loss rate: 0.00%

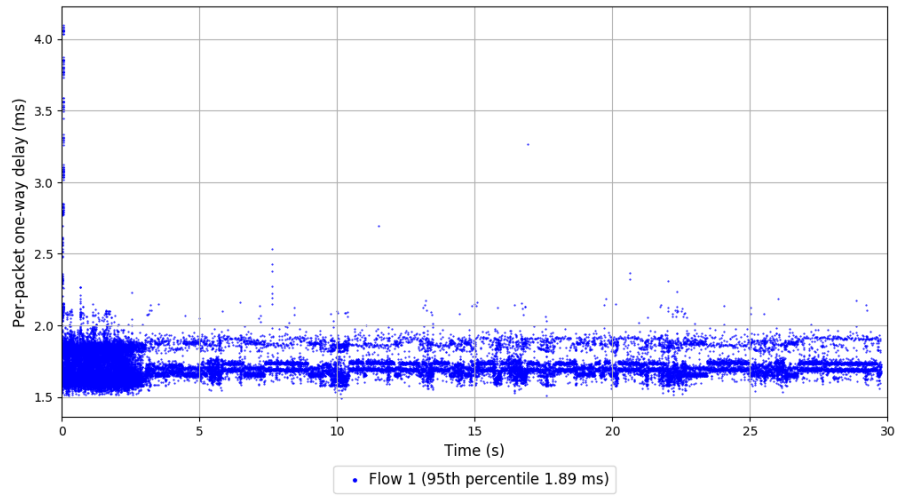
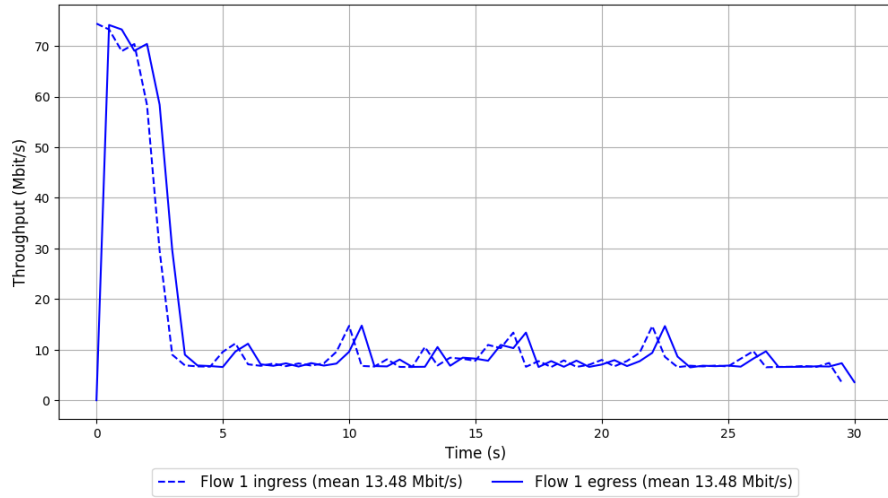
-- Flow 1:

Average throughput: 13.48 Mbit/s

95th percentile per-packet one-way delay: 1.893 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link





Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 01:16:38

End at: 2019-09-18 01:17:08

Local clock offset: 1.563 ms

Remote clock offset: 0.554 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 3.675 ms

Loss rate: 0.00%

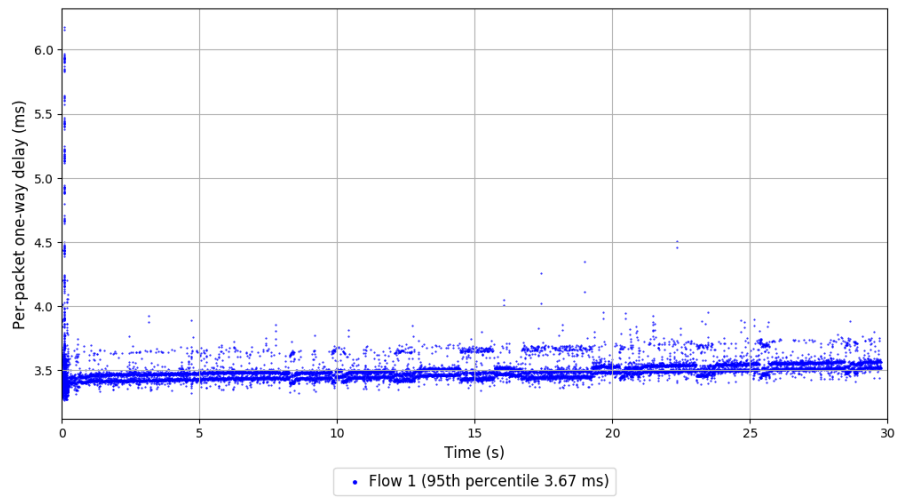
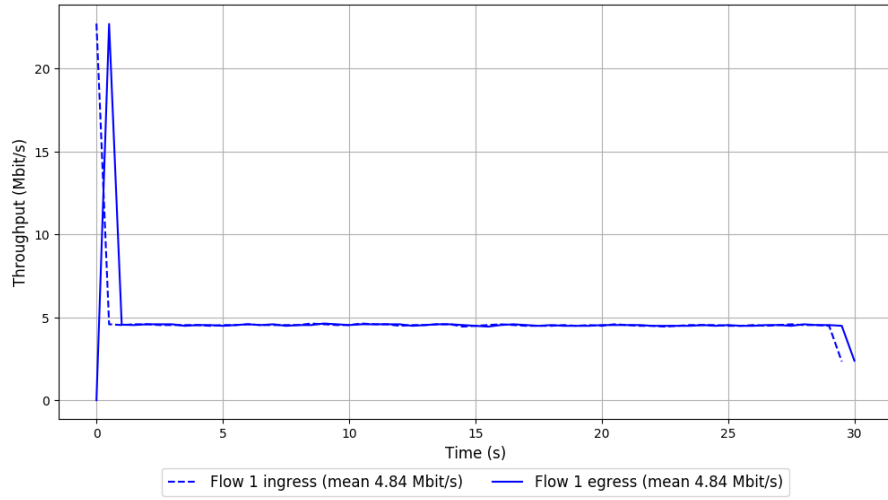
-- Flow 1:

Average throughput: 4.84 Mbit/s

95th percentile per-packet one-way delay: 3.675 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 01:43:17

End at: 2019-09-18 01:43:47

Local clock offset: 4.994 ms

Remote clock offset: 0.511 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 2.795 ms

Loss rate: 0.00%

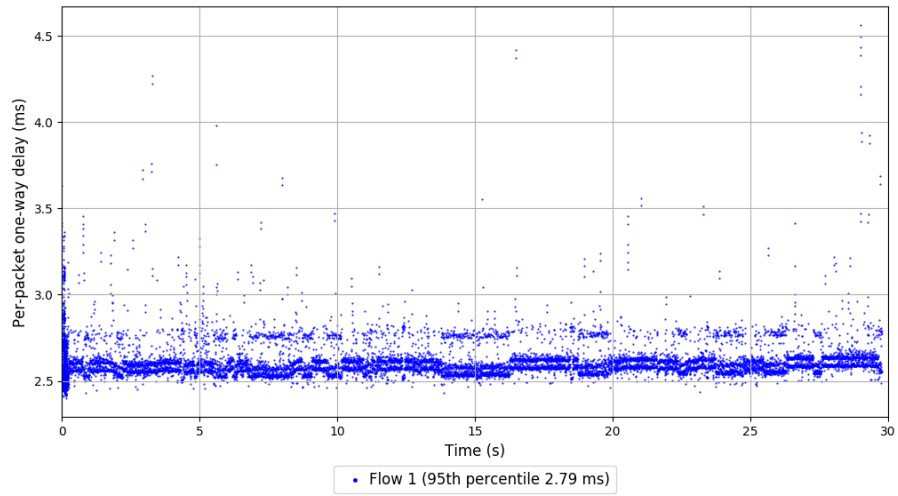
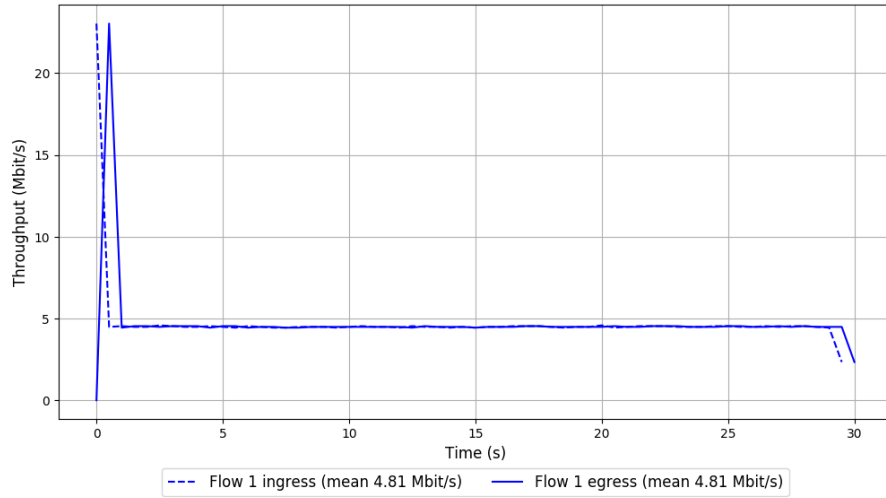
-- Flow 1:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 2.795 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 02:09:57

End at: 2019-09-18 02:10:27

Local clock offset: -3.014 ms

Remote clock offset: 0.522 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 3.142 ms

Loss rate: 0.00%

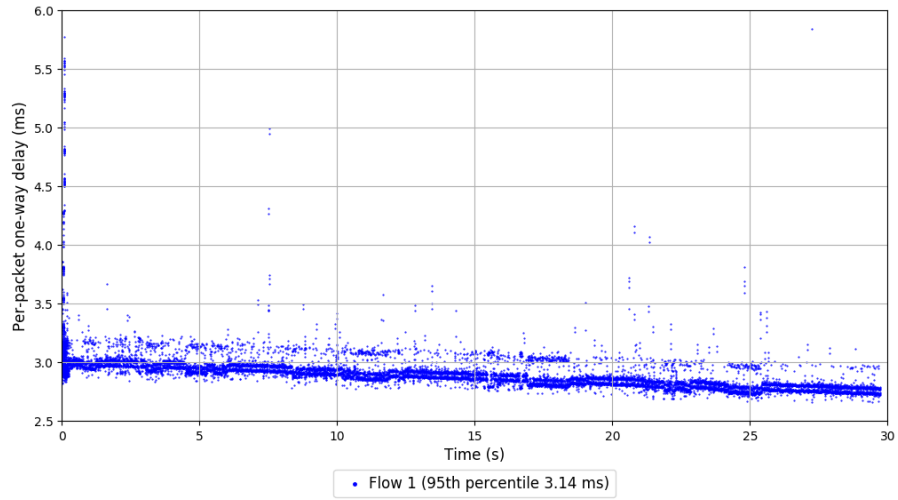
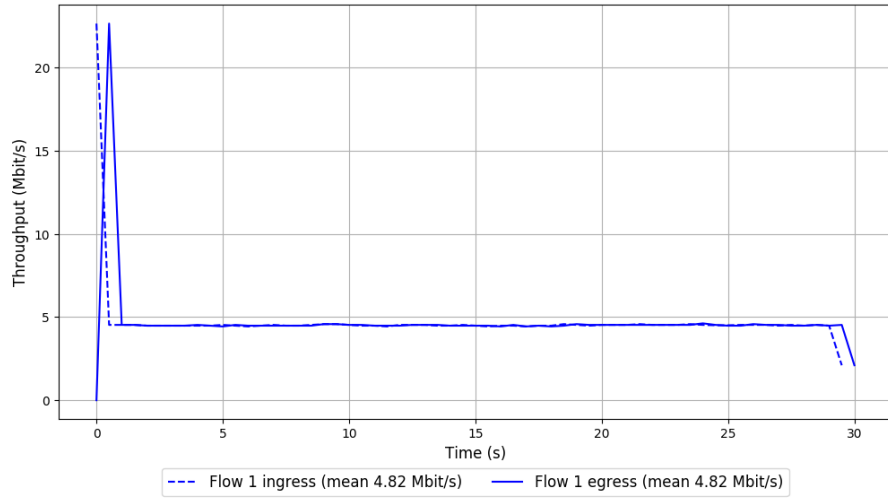
-- Flow 1:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 3.142 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 00:17:44

End at: 2019-09-18 00:18:14

Local clock offset: -5.433 ms

Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 4.416 ms

Loss rate: 0.00%

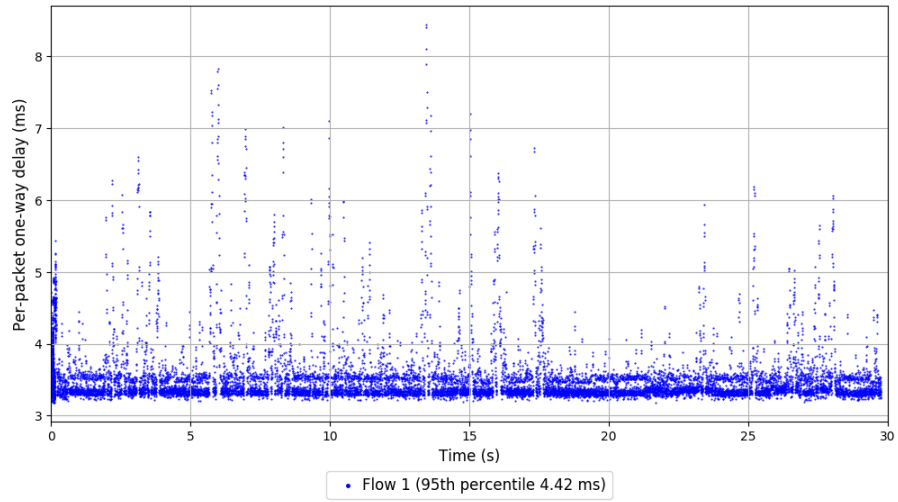
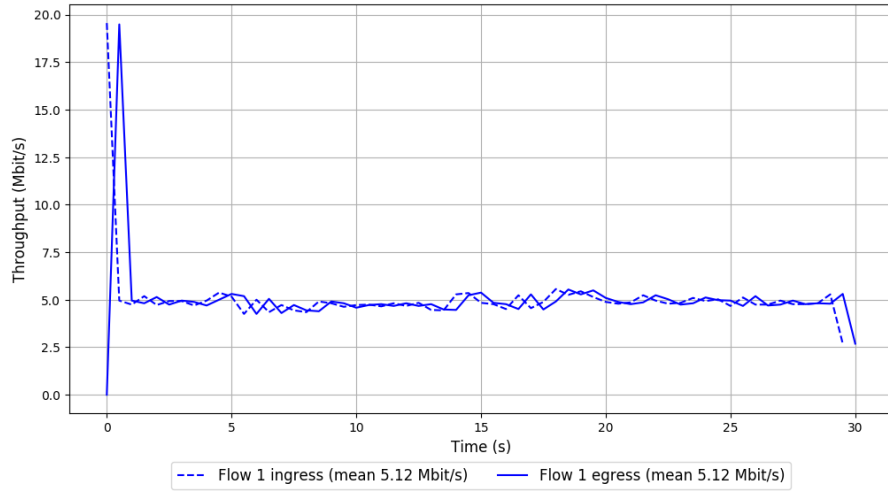
-- Flow 1:

Average throughput: 5.12 Mbit/s

95th percentile per-packet one-way delay: 4.416 ms

Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link





Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 00:44:23

End at: 2019-09-18 00:44:53

Local clock offset: -5.775 ms

Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.38 Mbit/s

95th percentile per-packet one-way delay: 1.884 ms

Loss rate: 0.00%

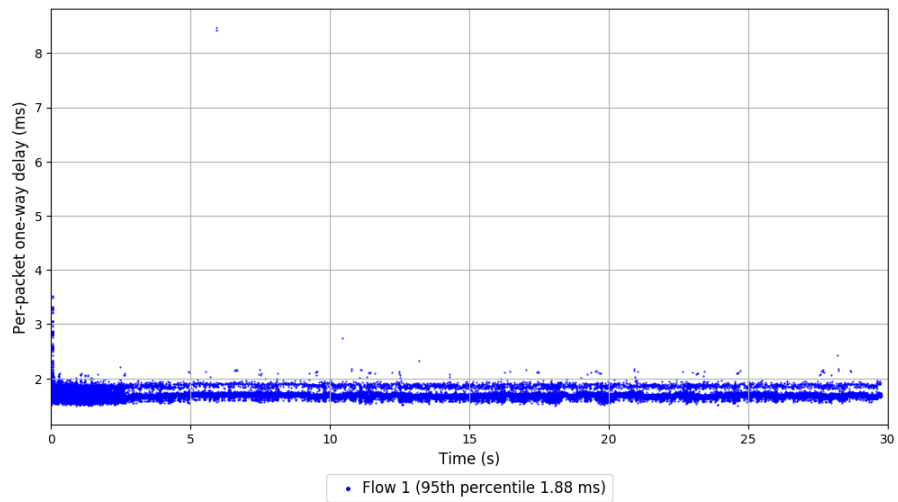
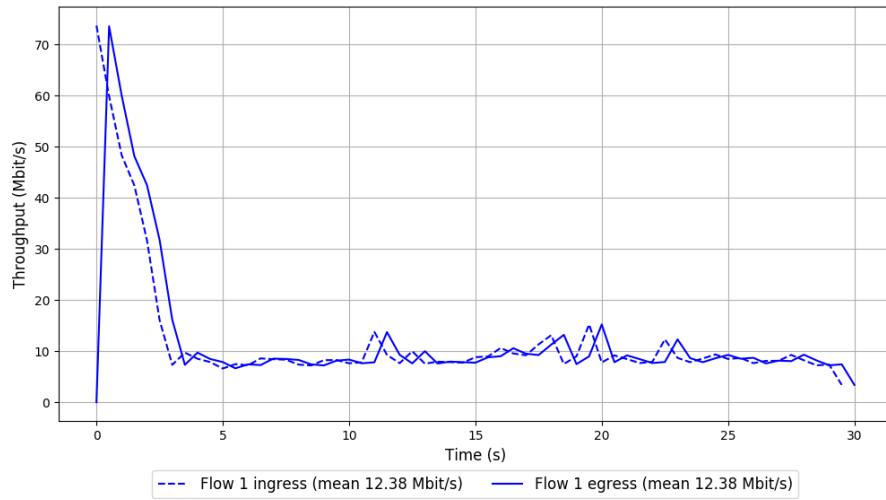
-- Flow 1:

Average throughput: 12.38 Mbit/s

95th percentile per-packet one-way delay: 1.884 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 01:11:03

End at: 2019-09-18 01:11:33

Local clock offset: 0.774 ms

Remote clock offset: 0.554 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 3.013 ms

Loss rate: 0.00%

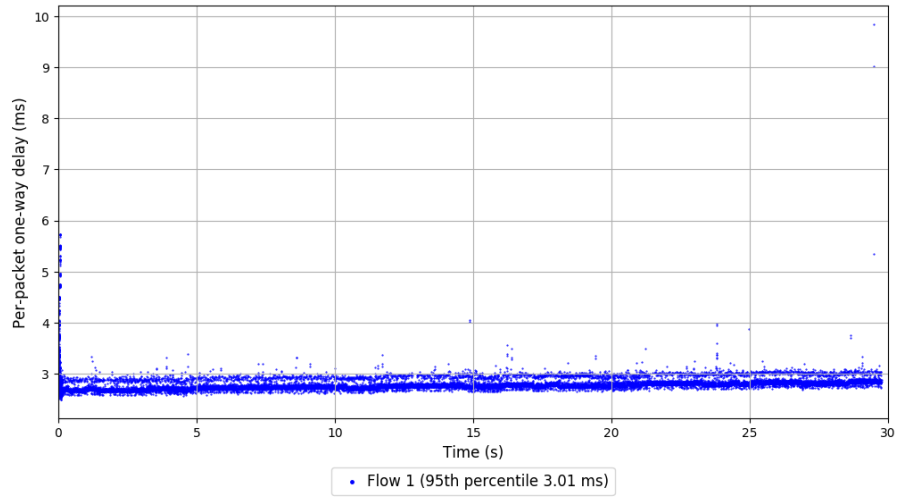
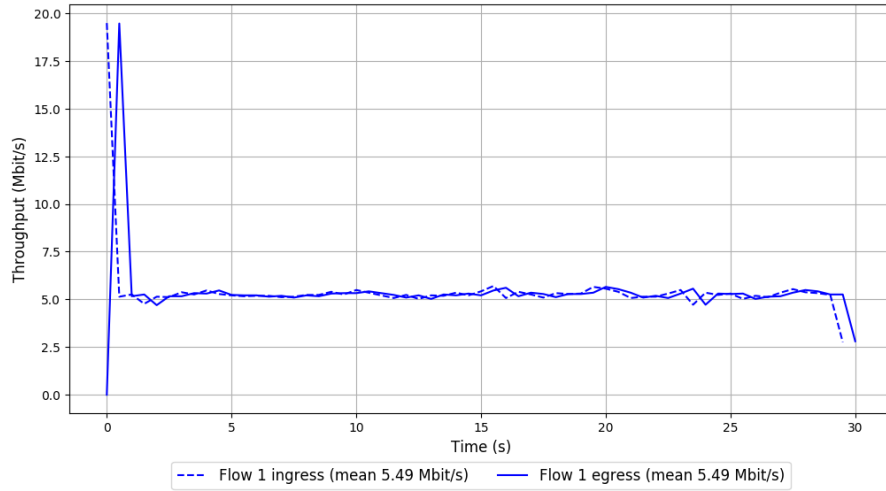
-- Flow 1:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 3.013 ms

Loss rate: 0.00%

### Run 3: Report of Muses\_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 01:37:41

End at: 2019-09-18 01:38:11

Local clock offset: 3.972 ms

Remote clock offset: 0.527 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 1.919 ms

Loss rate: 0.00%

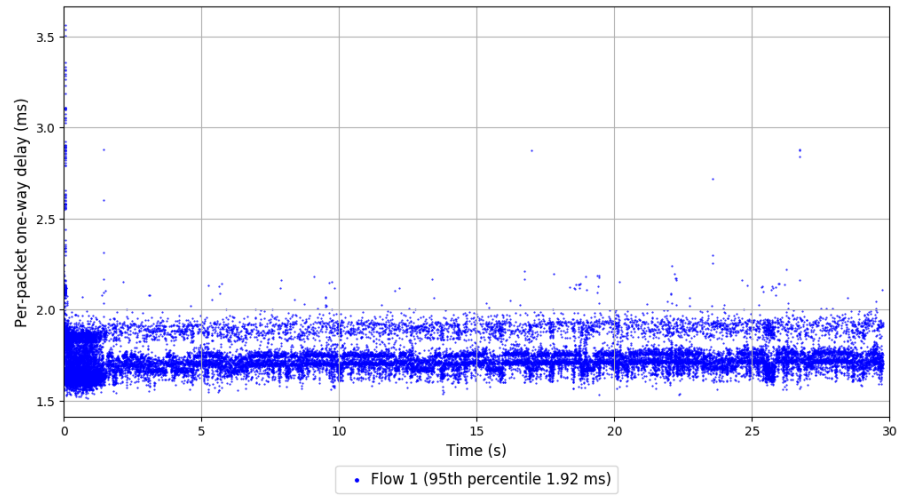
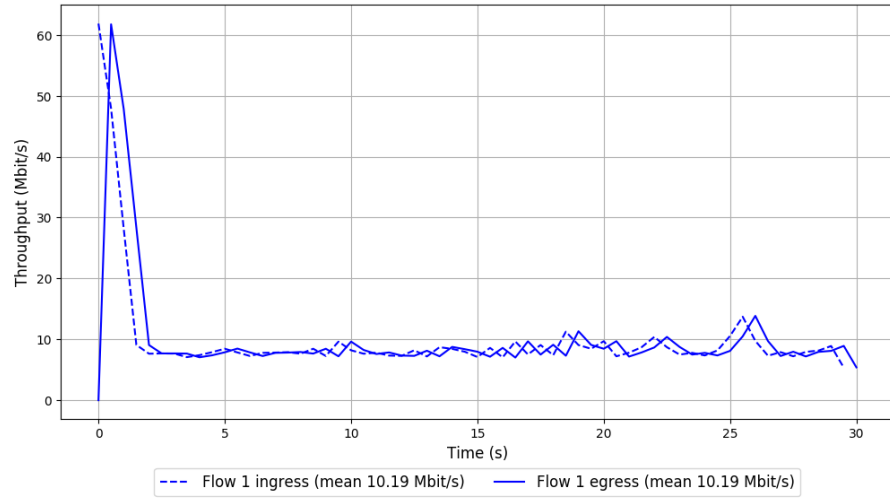
-- Flow 1:

Average throughput: 10.19 Mbit/s

95th percentile per-packet one-way delay: 1.919 ms

Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 02:04:21

End at: 2019-09-18 02:04:51

Local clock offset: 1.191 ms

Remote clock offset: 0.511 ms

# Below is generated by plot.py at 2019-09-18 02:22:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 2.999 ms

Loss rate: 0.00%

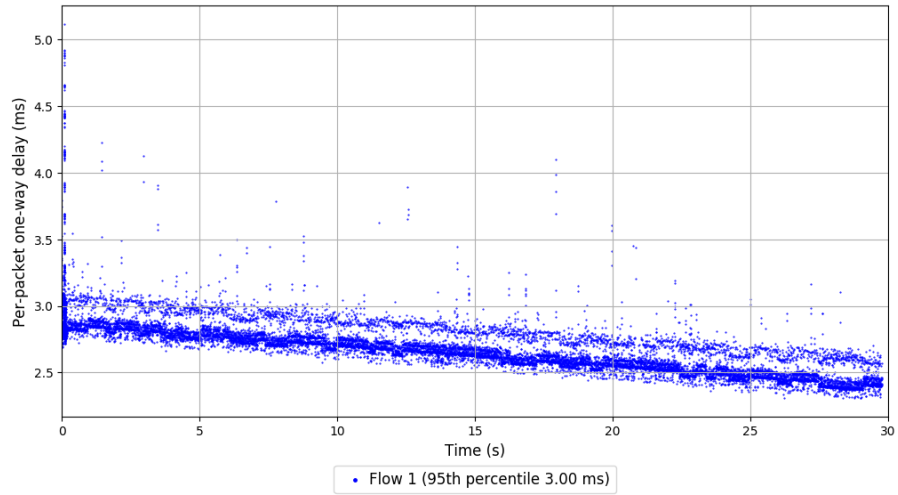
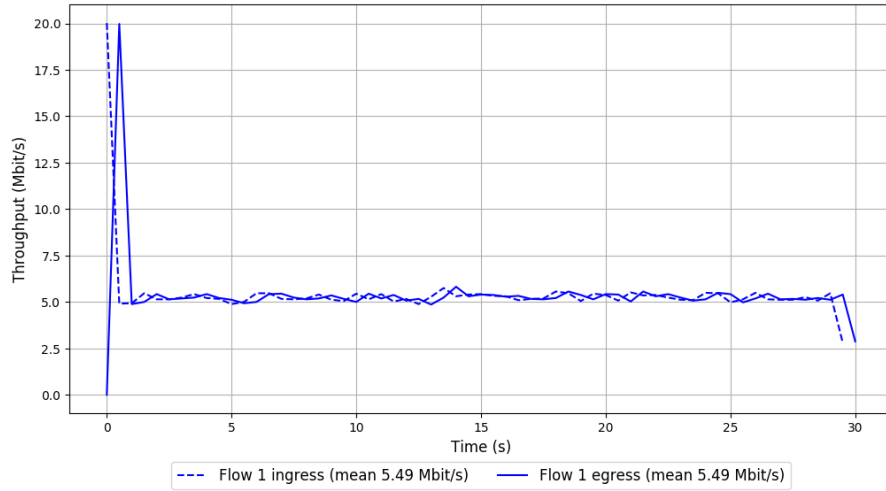
-- Flow 1:

Average throughput: 5.49 Mbit/s

95th percentile per-packet one-way delay: 2.999 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 00:05:32

End at: 2019-09-18 00:06:02

Local clock offset: -3.857 ms

Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2019-09-18 02:22:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.83 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.00%

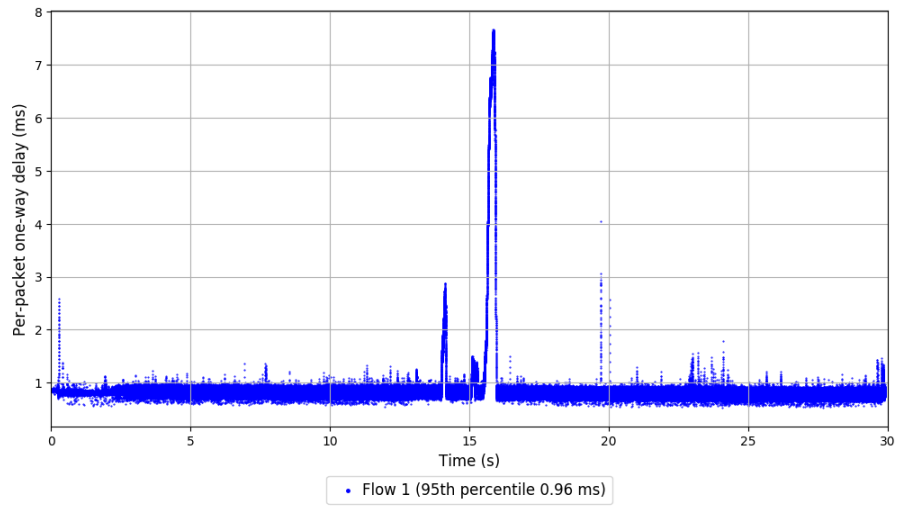
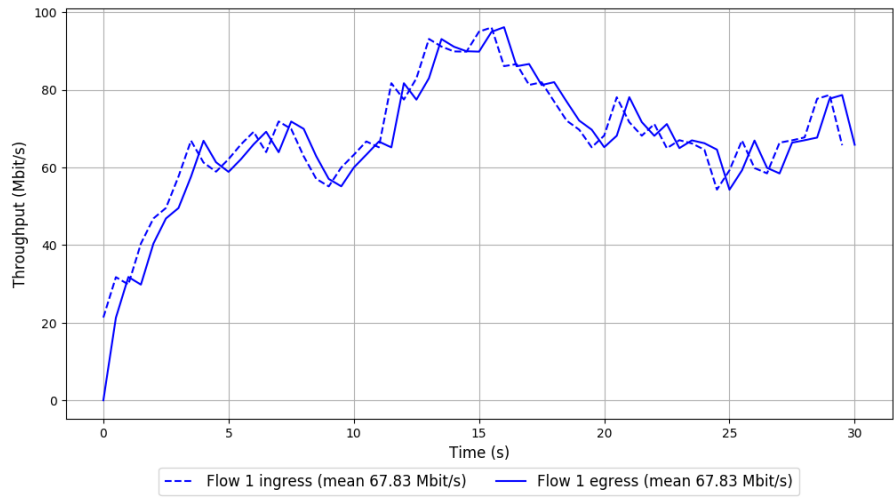
-- Flow 1:

Average throughput: 67.83 Mbit/s

95th percentile per-packet one-way delay: 0.961 ms

Loss rate: 0.00%

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



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 00:32:14

End at: 2019-09-18 00:32:44

Local clock offset: -5.513 ms

Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2019-09-18 02:22:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 1.777 ms

Loss rate: 0.00%

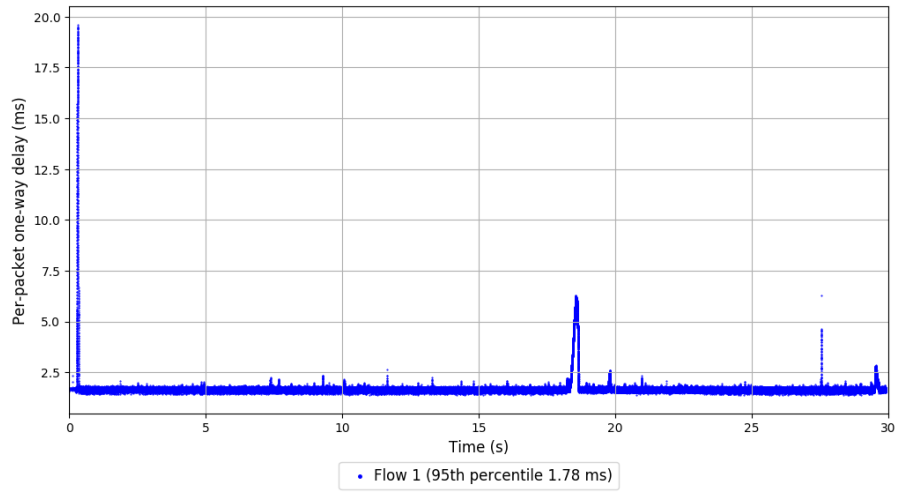
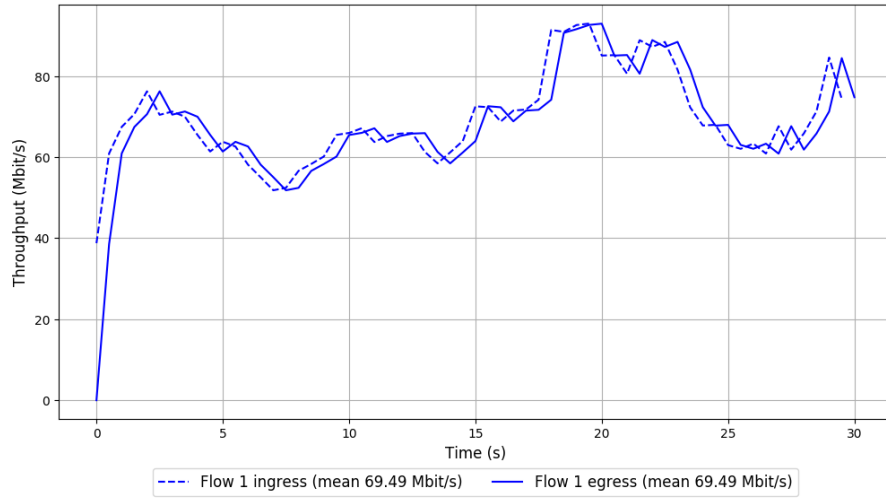
-- Flow 1:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 1.777 ms

Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 00:58:55

End at: 2019-09-18 00:59:26

Local clock offset: -5.022 ms

Remote clock offset: 0.439 ms

# Below is generated by plot.py at 2019-09-18 02:23:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 3.354 ms

Loss rate: 0.00%

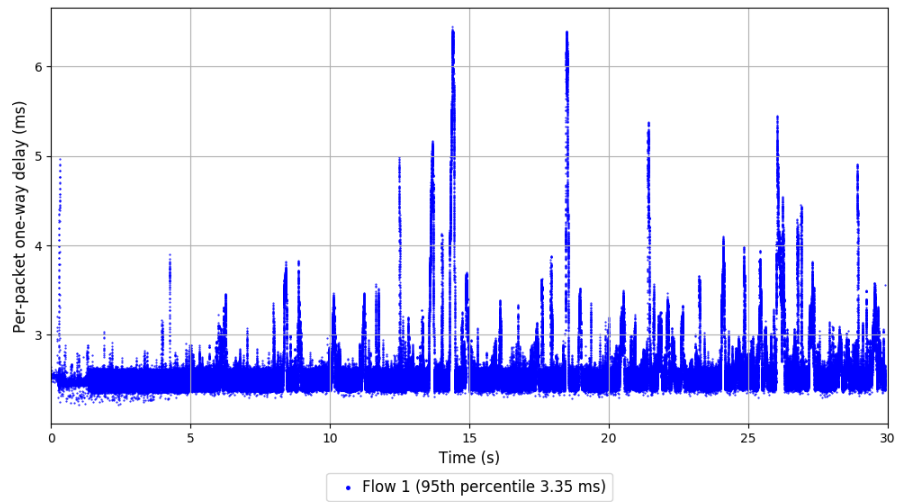
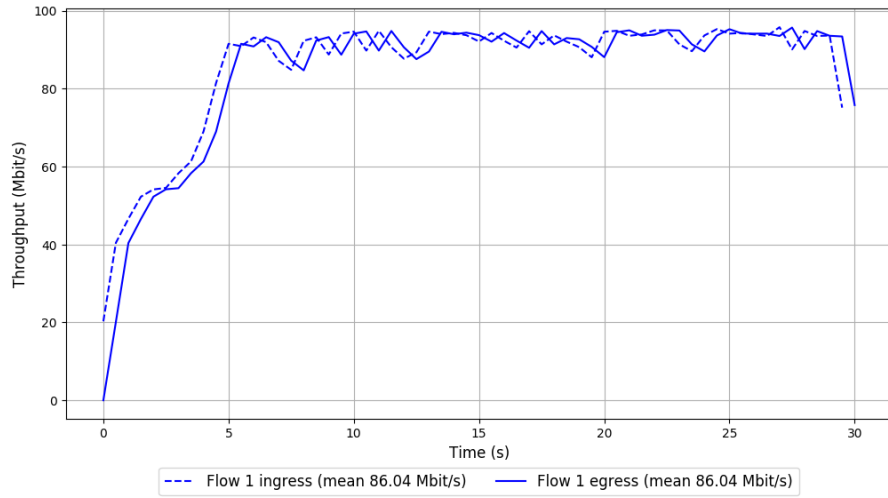
-- Flow 1:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 3.354 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-09-18 01:25:33

End at: 2019-09-18 01:26:03

Local clock offset: 3.946 ms

Remote clock offset: 0.512 ms

# Below is generated by plot.py at 2019-09-18 02:23:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.53 Mbit/s

95th percentile per-packet one-way delay: 4.068 ms

Loss rate: 0.00%

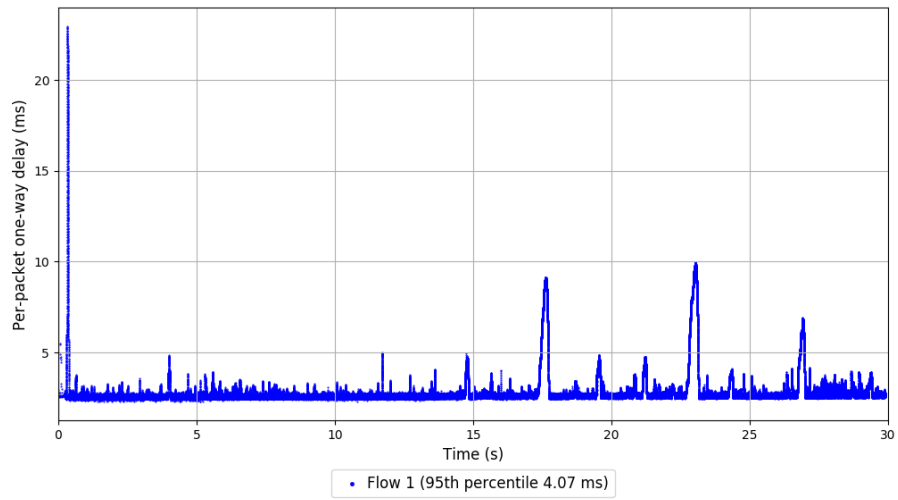
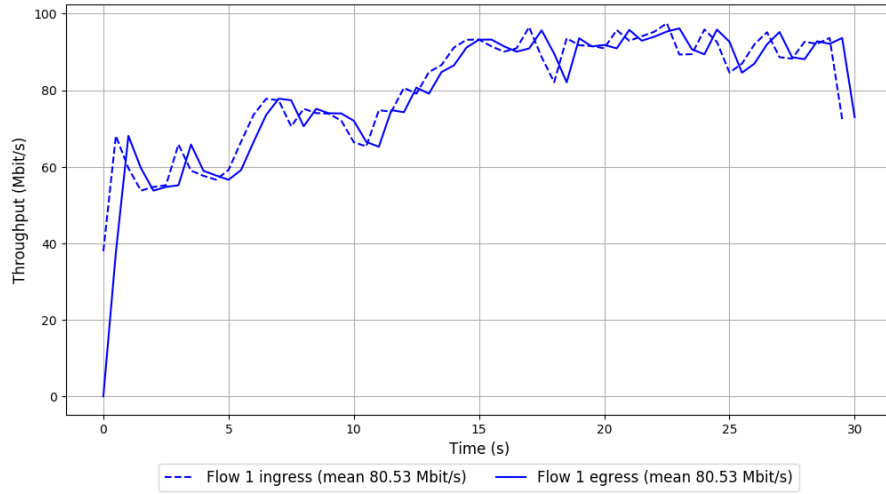
-- Flow 1:

Average throughput: 80.53 Mbit/s

95th percentile per-packet one-way delay: 4.068 ms

Loss rate: 0.00%

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





Run 5: Statistics of PCC-Allegro

Start at: 2019-09-18 01:52:13

End at: 2019-09-18 01:52:43

Local clock offset: 5.652 ms

Remote clock offset: 0.602 ms

# Below is generated by plot.py at 2019-09-18 02:23:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 3.709 ms

Loss rate: 0.00%

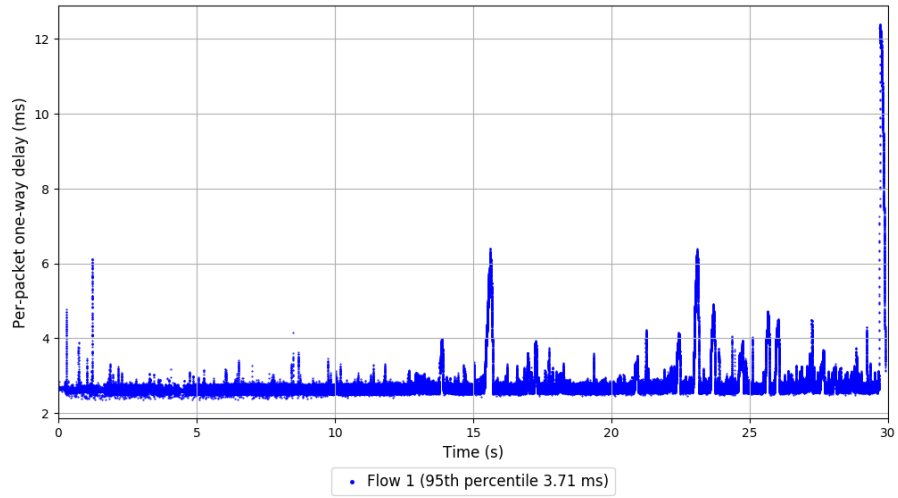
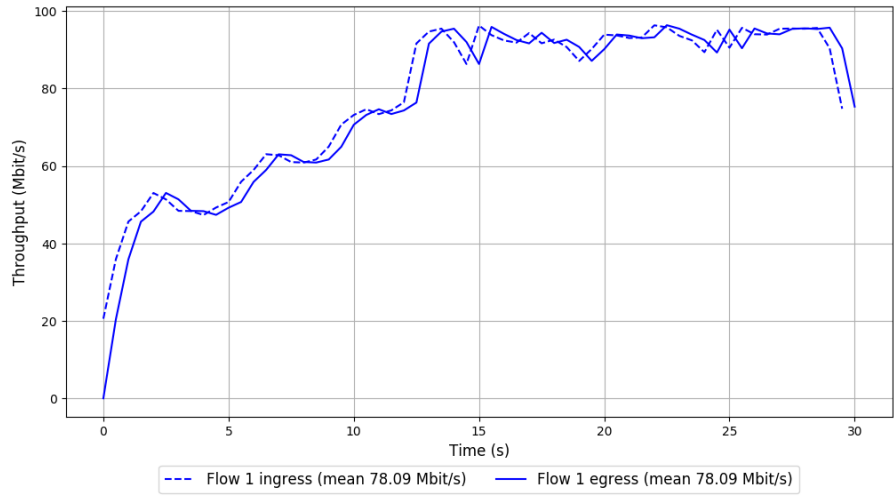
-- Flow 1:

Average throughput: 78.09 Mbit/s

95th percentile per-packet one-way delay: 3.709 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

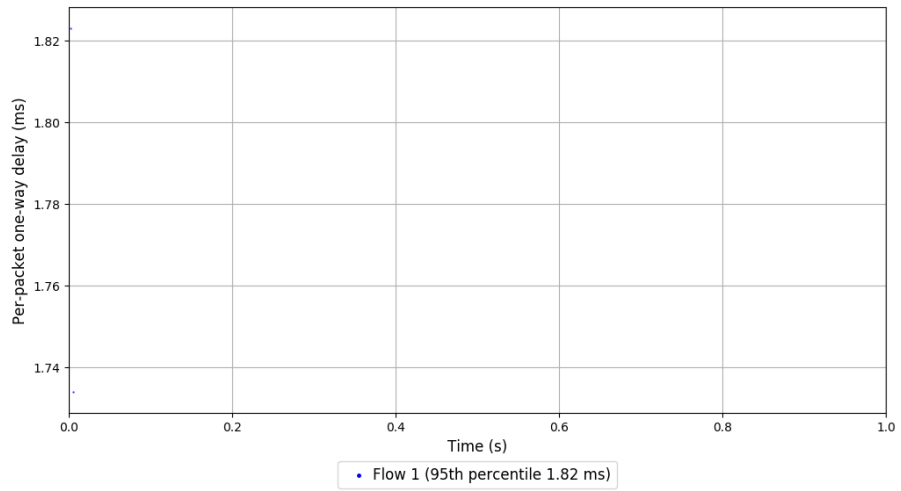
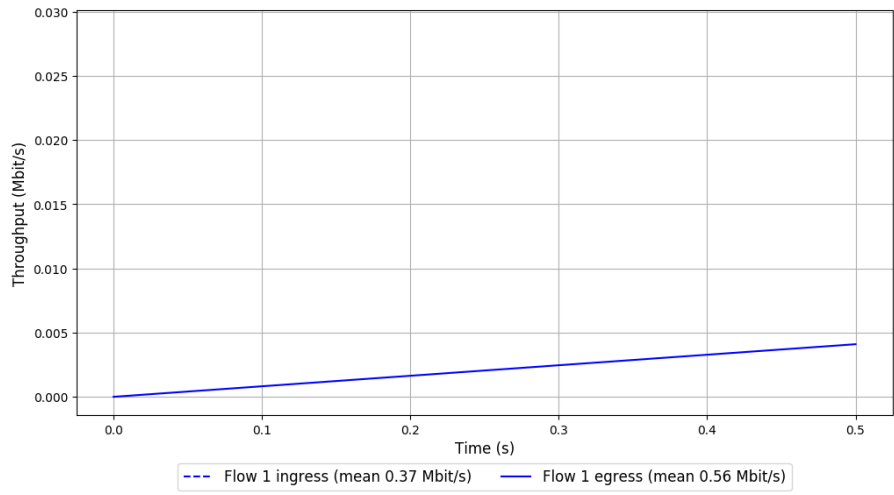
Start at: 2019-09-18 00:13:18

End at: 2019-09-18 00:13:48

Local clock offset: -5.345 ms

Remote clock offset: 0.077 ms

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



Run 2: Statistics of PCC-Expr

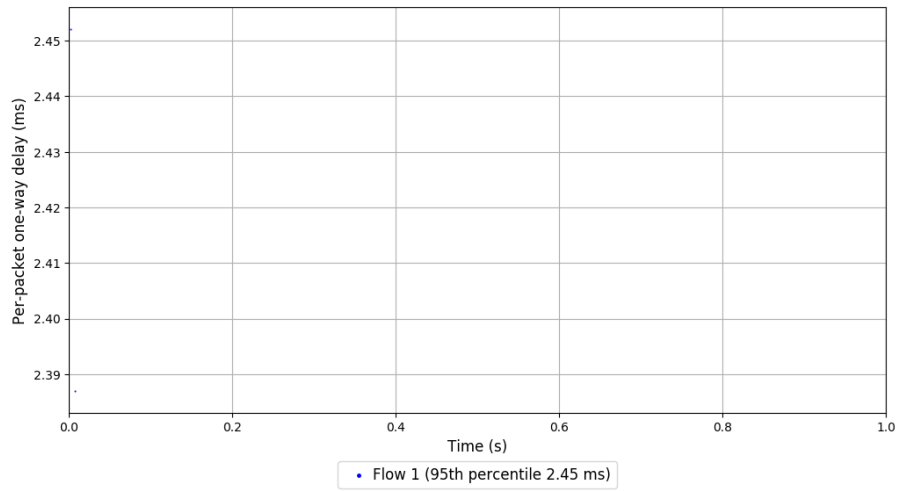
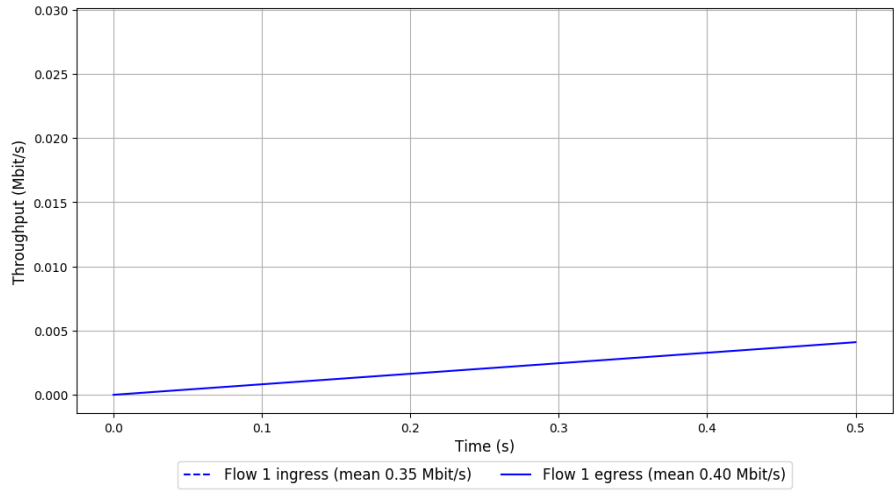
Start at: 2019-09-18 00:39:57

End at: 2019-09-18 00:40:27

Local clock offset: -4.961 ms

Remote clock offset: 0.229 ms

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



Run 3: Statistics of PCC-Expr

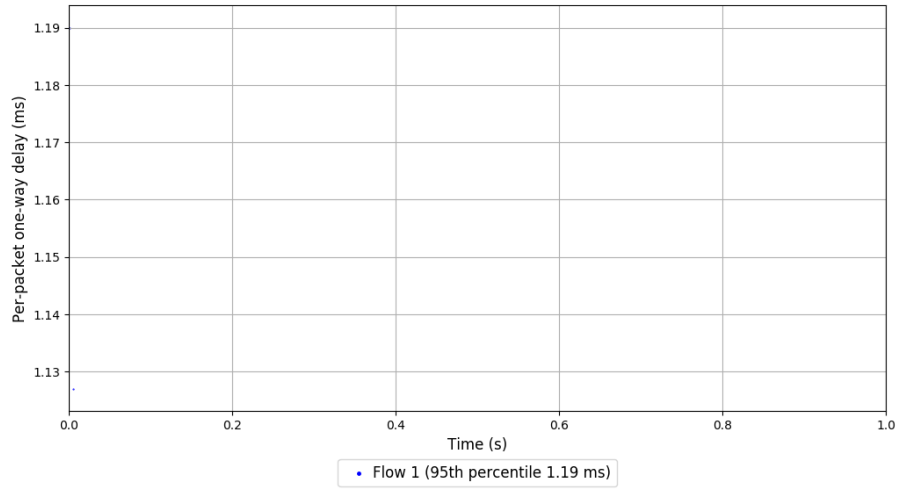
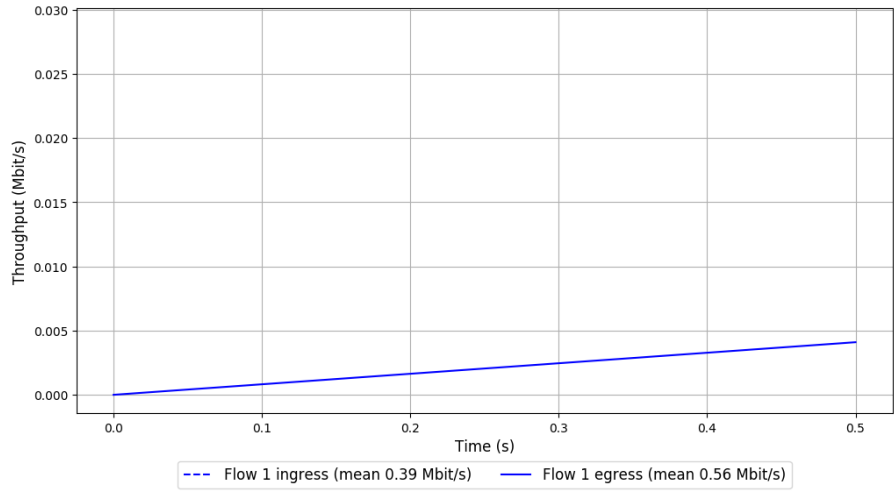
Start at: 2019-09-18 01:06:38

End at: 2019-09-18 01:07:08

Local clock offset: -1.087 ms

Remote clock offset: 0.505 ms

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





Run 4: Statistics of PCC-Expr

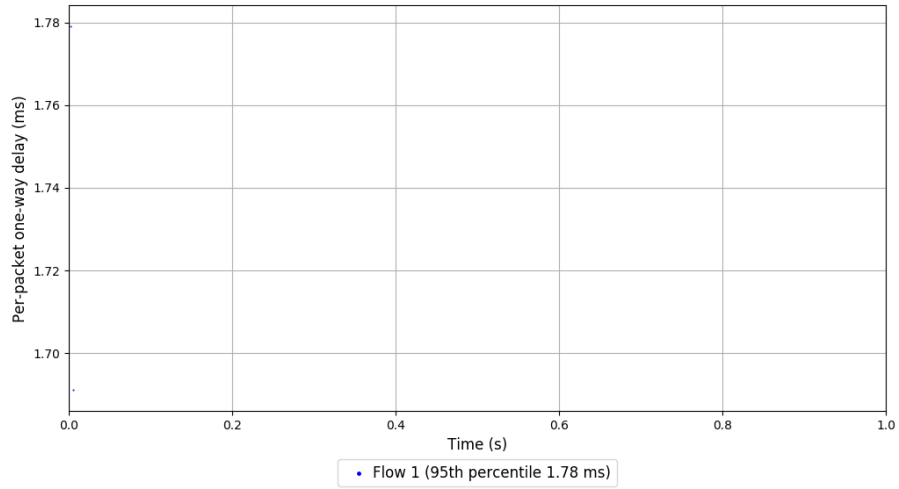
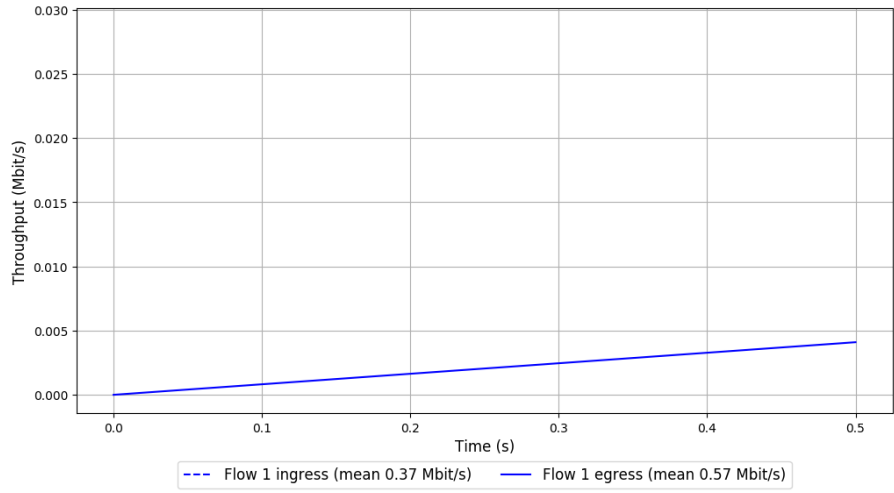
Start at: 2019-09-18 01:33:15

End at: 2019-09-18 01:33:45

Local clock offset: 3.91 ms

Remote clock offset: 0.591 ms

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



Run 5: Statistics of PCC-Expr

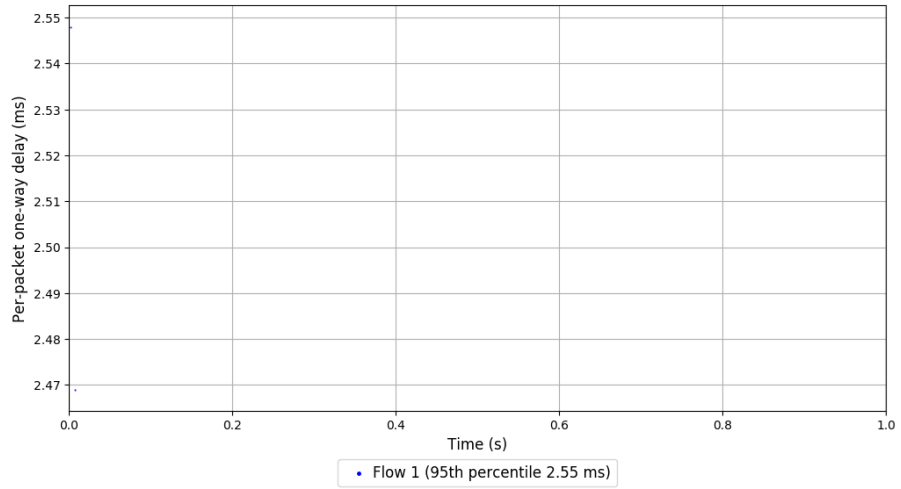
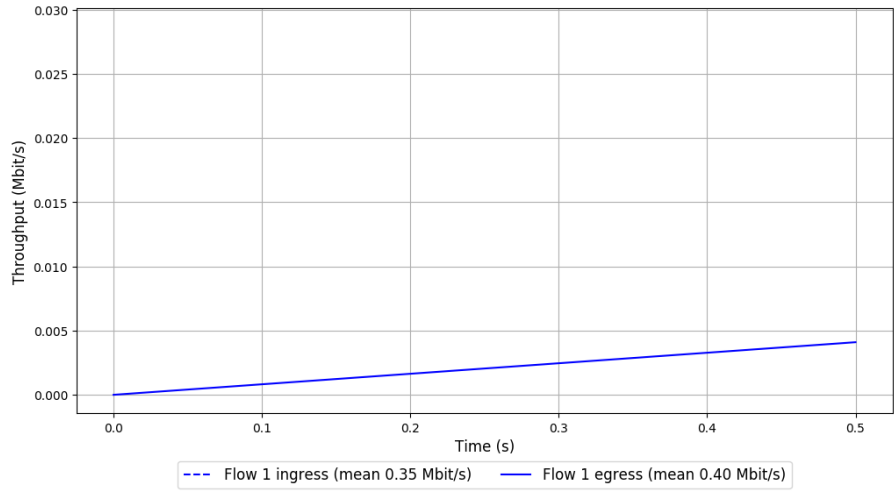
Start at: 2019-09-18 01:59:55

End at: 2019-09-18 02:00:25

Local clock offset: 6.364 ms

Remote clock offset: 0.533 ms

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



Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 00:21:04

End at: 2019-09-18 00:21:34

Local clock offset: -4.684 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-09-18 02:23:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.23 Mbit/s

95th percentile per-packet one-way delay: 7.255 ms

Loss rate: 0.42%

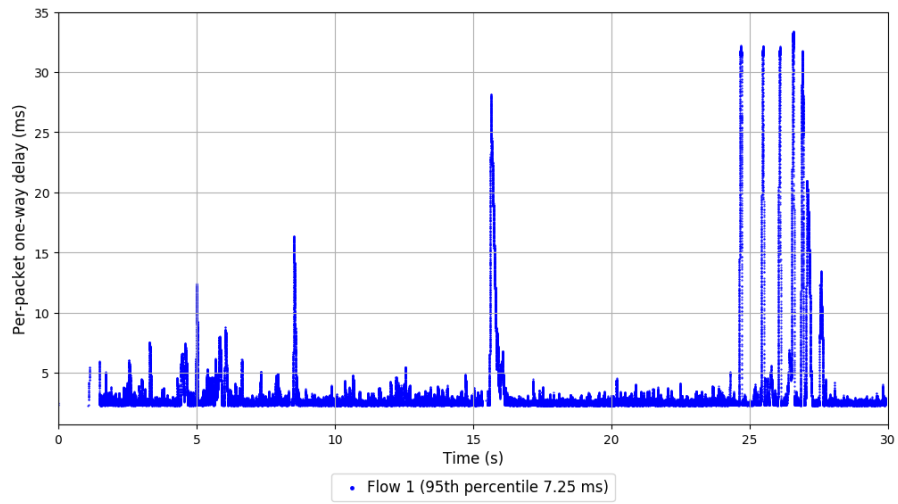
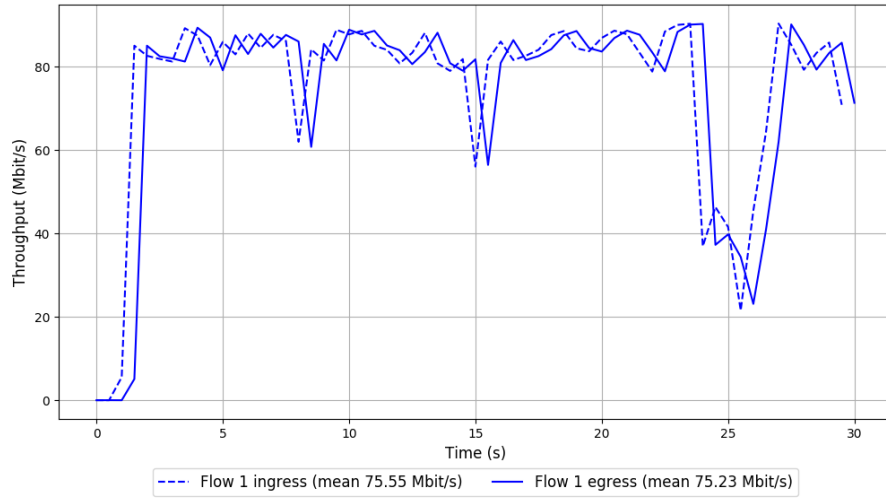
-- Flow 1:

Average throughput: 75.23 Mbit/s

95th percentile per-packet one-way delay: 7.255 ms

Loss rate: 0.42%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 00:47:43

End at: 2019-09-18 00:48:13

Local clock offset: -5.799 ms

Remote clock offset: 0.428 ms

# Below is generated by plot.py at 2019-09-18 02:23:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 2.275 ms

Loss rate: 0.20%

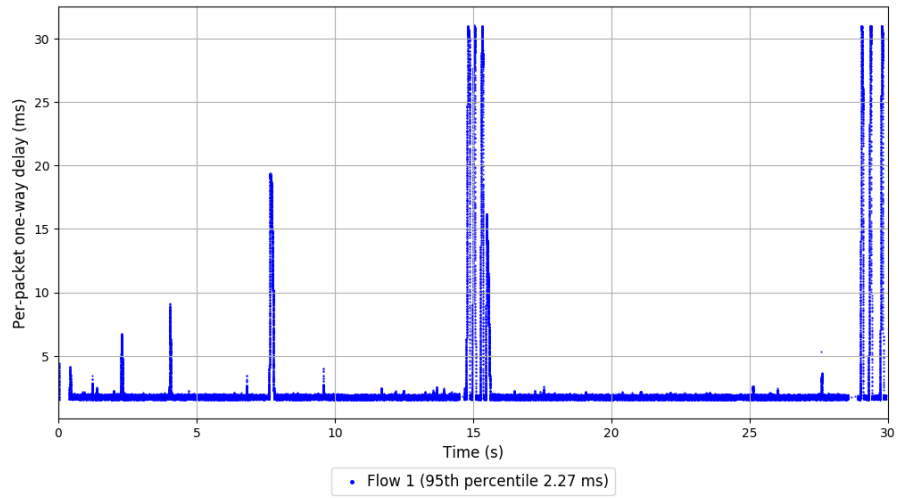
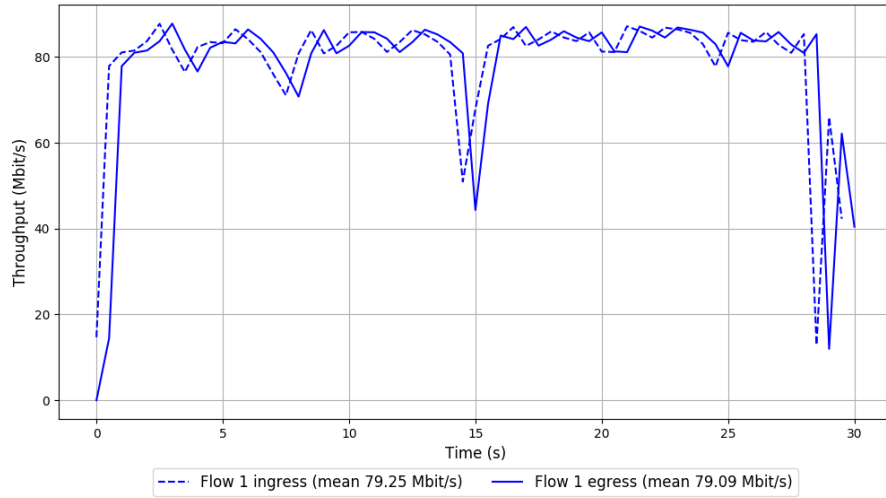
-- Flow 1:

Average throughput: 79.09 Mbit/s

95th percentile per-packet one-way delay: 2.275 ms

Loss rate: 0.20%

Run 2: Report of QUIC Cubic — Data Link





Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 01:14:22

End at: 2019-09-18 01:14:52

Local clock offset: 1.059 ms

Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2019-09-18 02:23:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.24 Mbit/s

95th percentile per-packet one-way delay: 2.178 ms

Loss rate: 0.32%

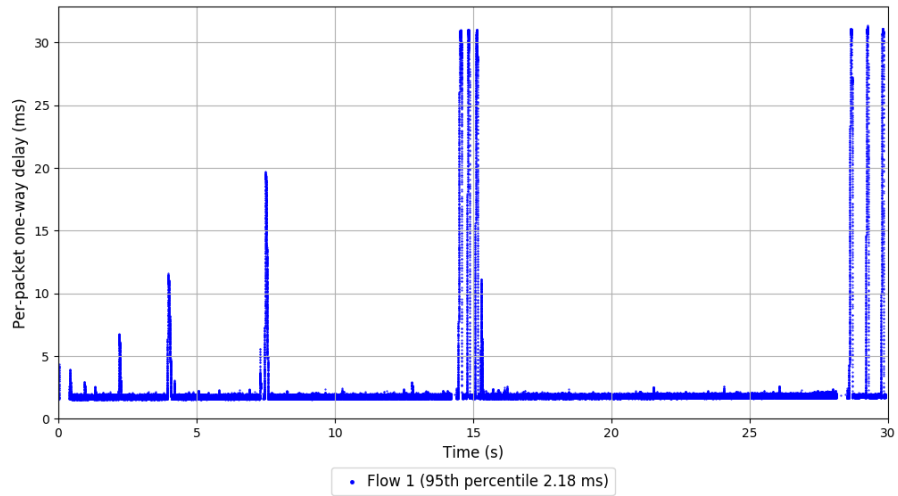
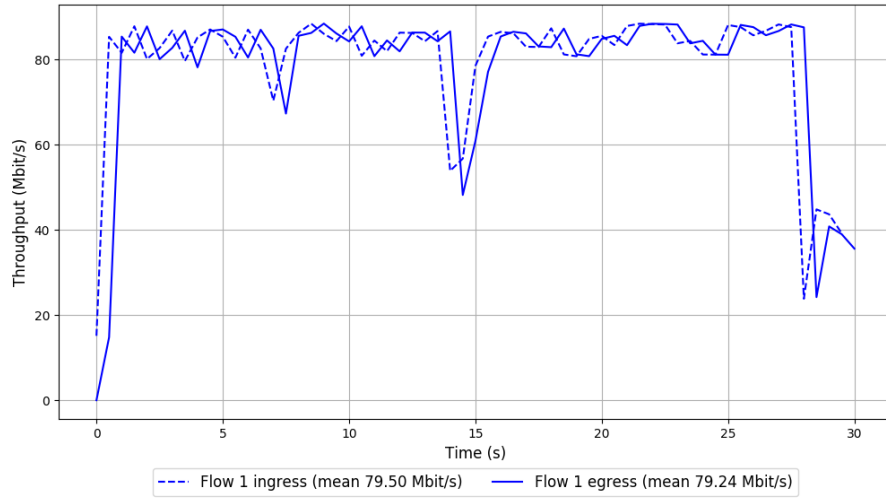
-- Flow 1:

Average throughput: 79.24 Mbit/s

95th percentile per-packet one-way delay: 2.178 ms

Loss rate: 0.32%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-09-18 01:41:02

End at: 2019-09-18 01:41:32

Local clock offset: 4.879 ms

Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2019-09-18 02:24:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 1.228 ms

Loss rate: 0.24%

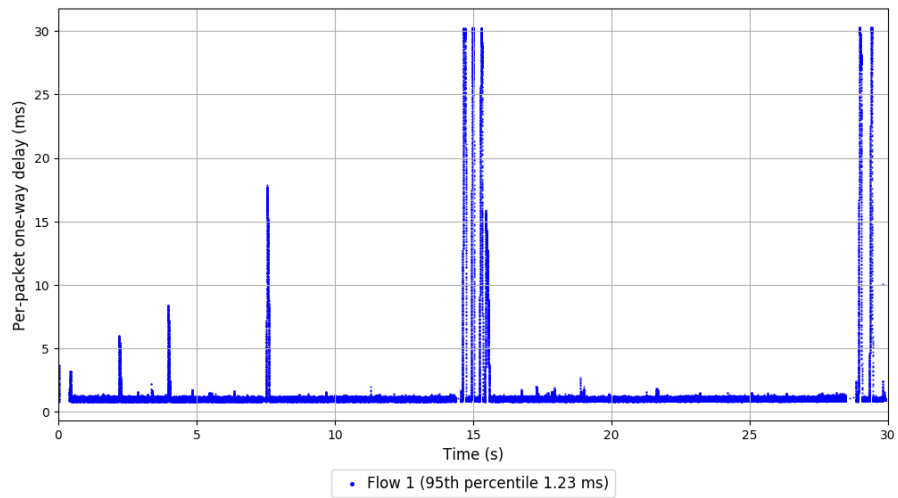
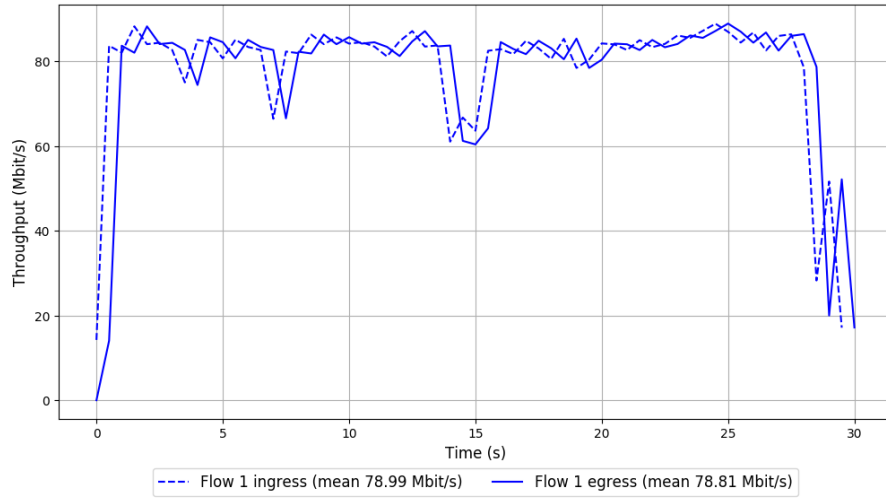
-- Flow 1:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 1.228 ms

Loss rate: 0.24%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-09-18 02:07:41

End at: 2019-09-18 02:08:11

Local clock offset: -0.835 ms

Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2019-09-18 02:24:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.60 Mbit/s

95th percentile per-packet one-way delay: 6.860 ms

Loss rate: 0.19%

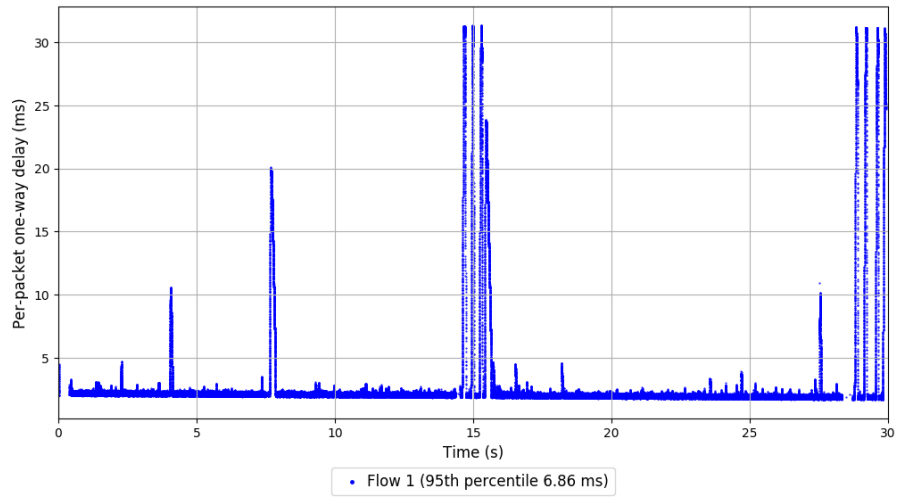
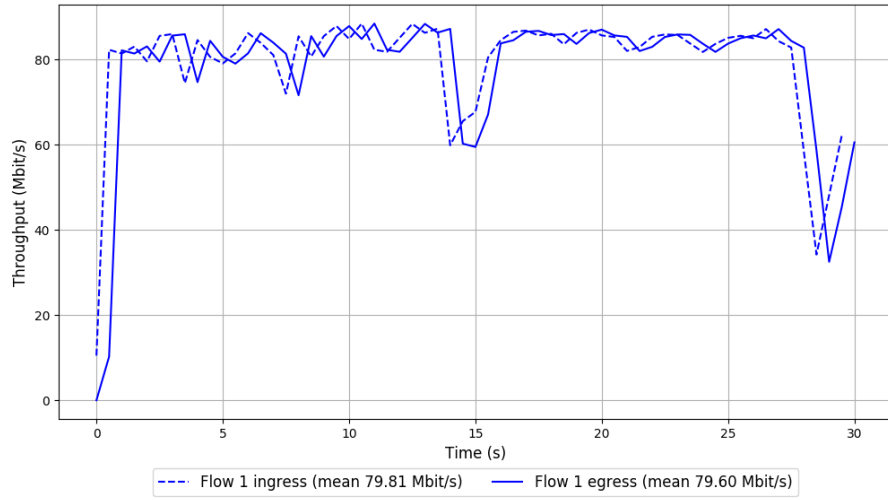
-- Flow 1:

Average throughput: 79.60 Mbit/s

95th percentile per-packet one-way delay: 6.860 ms

Loss rate: 0.19%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-09-18 00:11:10

End at: 2019-09-18 00:11:40

Local clock offset: -5.182 ms

Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-09-18 02:24:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.675 ms

Loss rate: 0.00%

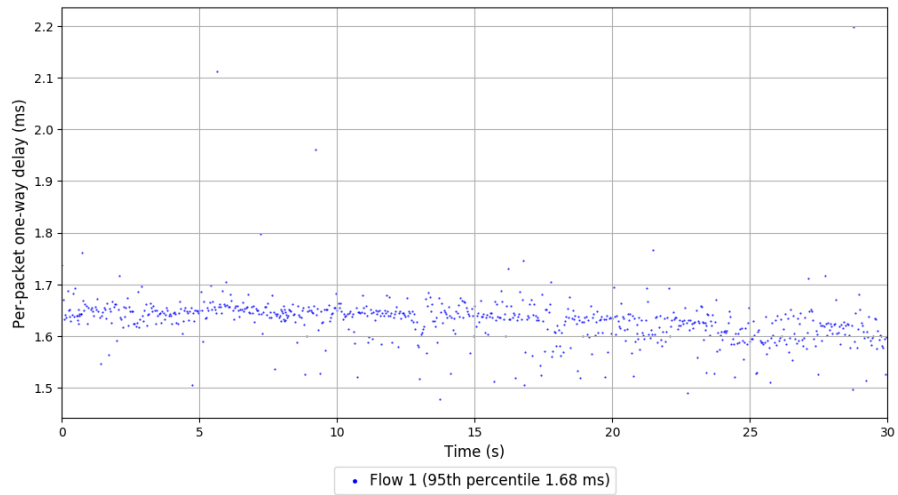
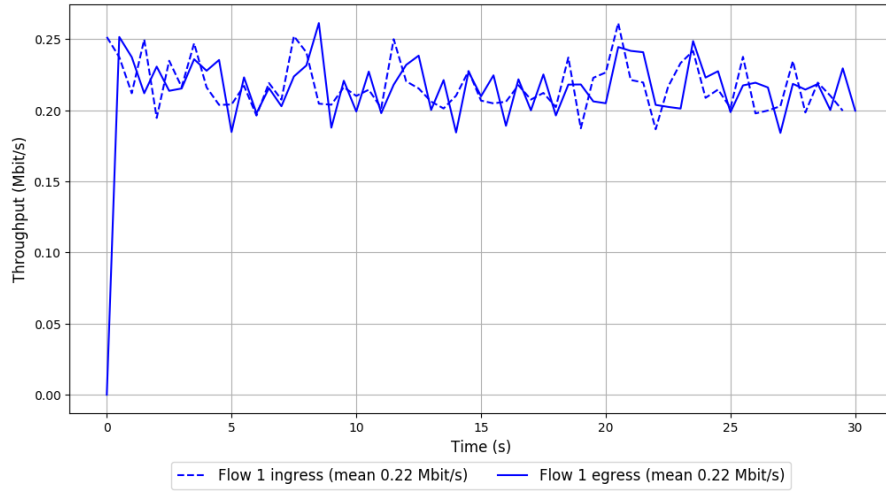
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.675 ms

Loss rate: 0.00%

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





Run 2: Statistics of SCReAM

Start at: 2019-09-18 00:37:48

End at: 2019-09-18 00:38:18

Local clock offset: -5.706 ms

Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2019-09-18 02:24:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.592 ms

Loss rate: 0.00%

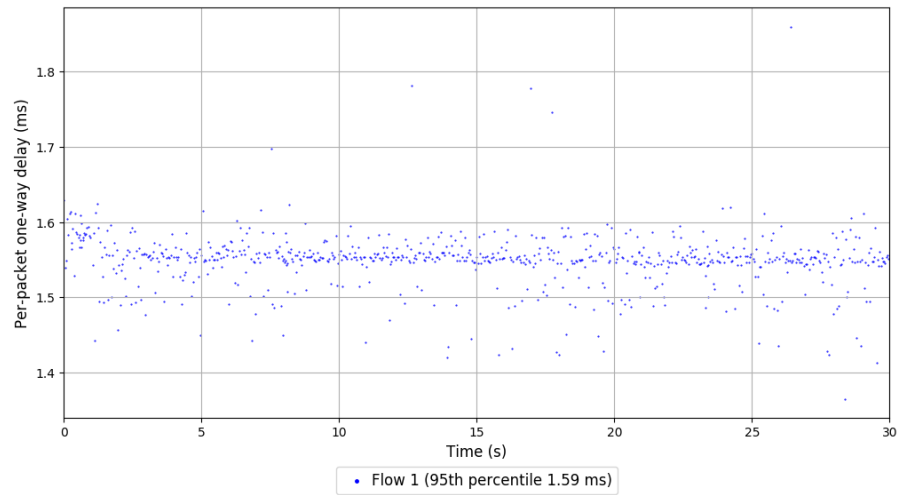
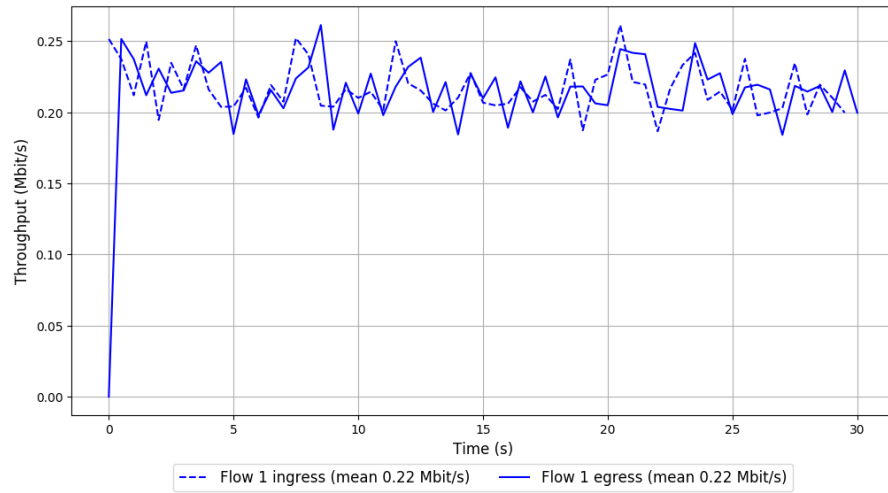
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.592 ms

Loss rate: 0.00%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-09-18 01:04:29

End at: 2019-09-18 01:04:59

Local clock offset: -3.012 ms

Remote clock offset: 0.488 ms

# Below is generated by plot.py at 2019-09-18 02:24:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.779 ms

Loss rate: 0.00%

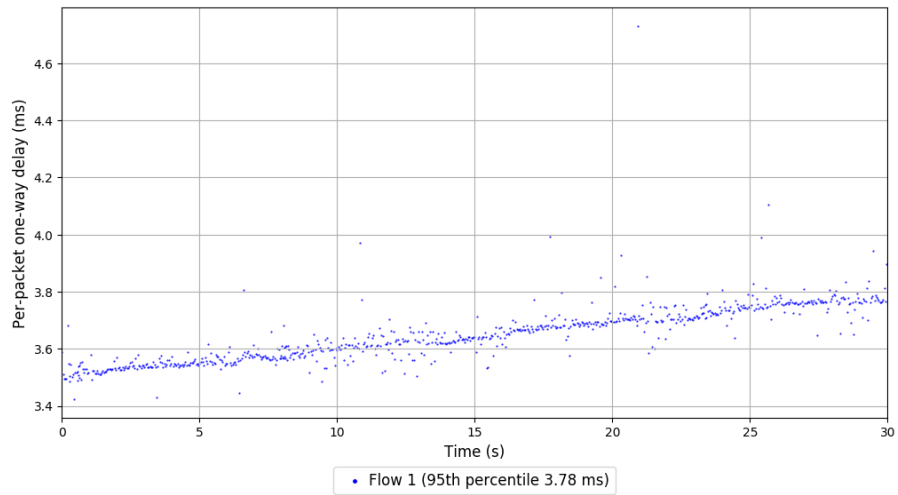
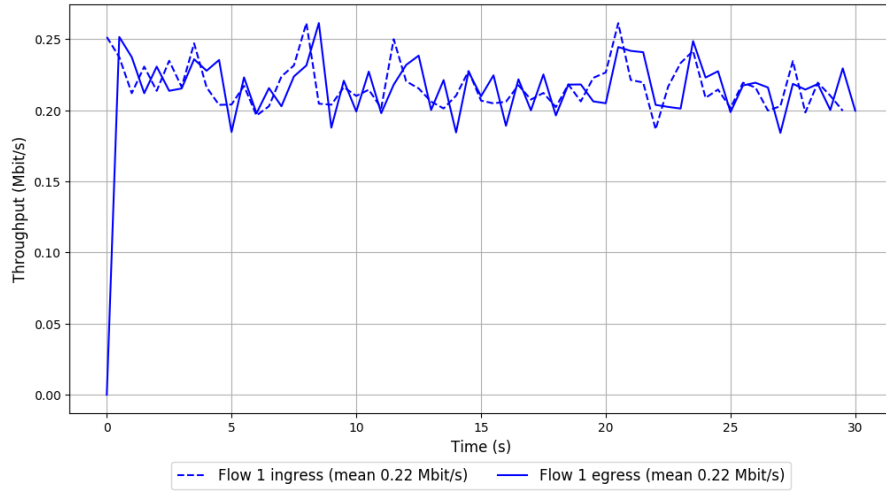
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.779 ms

Loss rate: 0.00%

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



Run 4: Statistics of SCReAM

Start at: 2019-09-18 01:31:06

End at: 2019-09-18 01:31:36

Local clock offset: 4.721 ms

Remote clock offset: 0.537 ms

# Below is generated by plot.py at 2019-09-18 02:24:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.866 ms

Loss rate: 0.00%

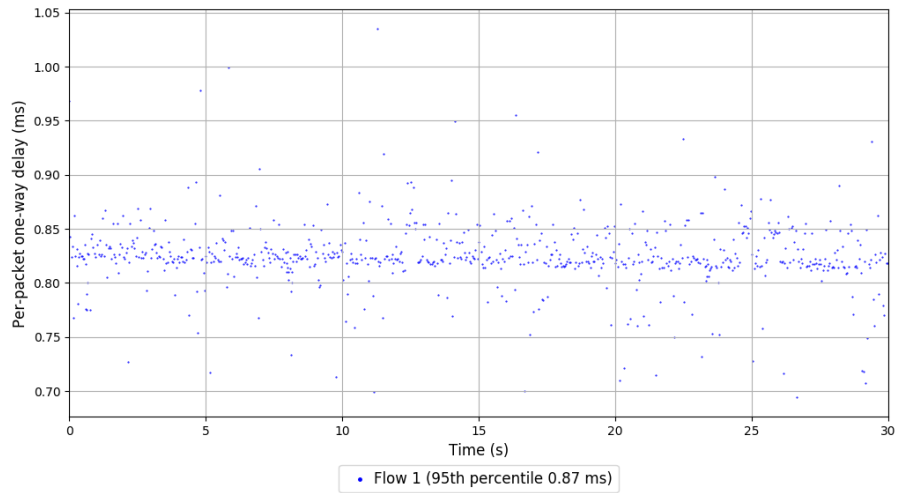
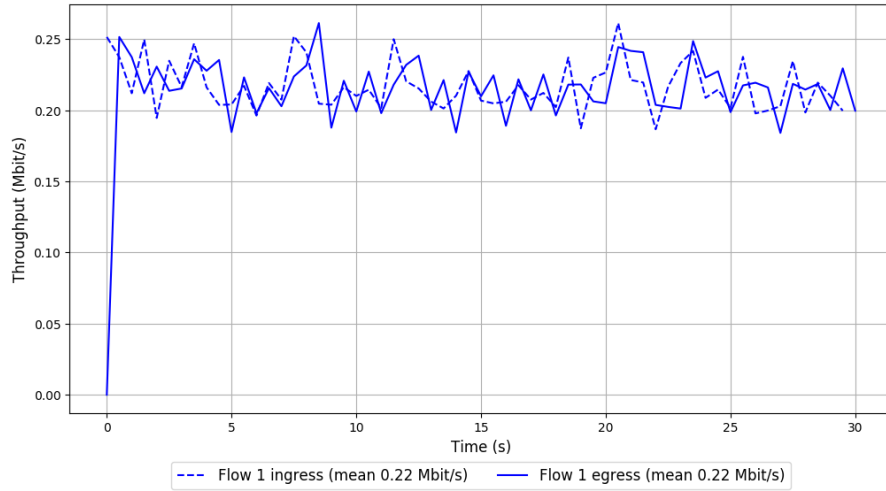
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.866 ms

Loss rate: 0.00%

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



Run 5: Statistics of SCReAM

Start at: 2019-09-18 01:57:46

End at: 2019-09-18 01:58:16

Local clock offset: 6.19 ms

Remote clock offset: 0.524 ms

# Below is generated by plot.py at 2019-09-18 02:24:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.954 ms

Loss rate: 0.00%

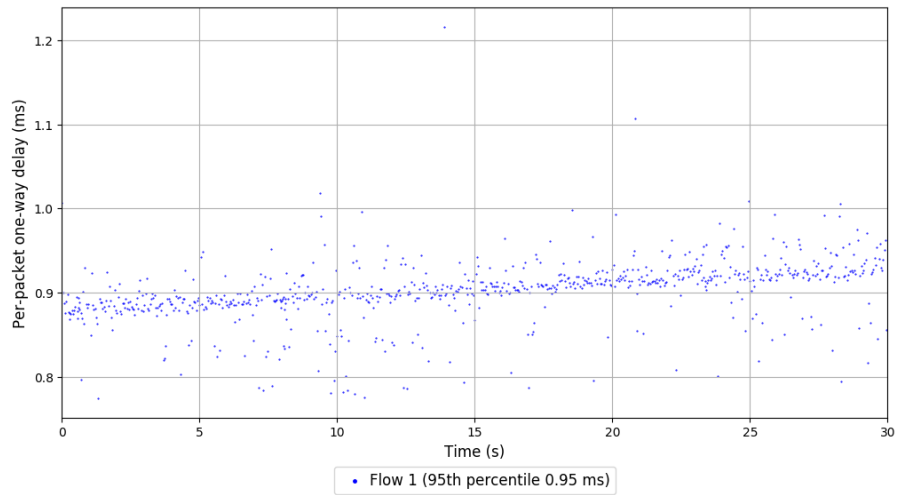
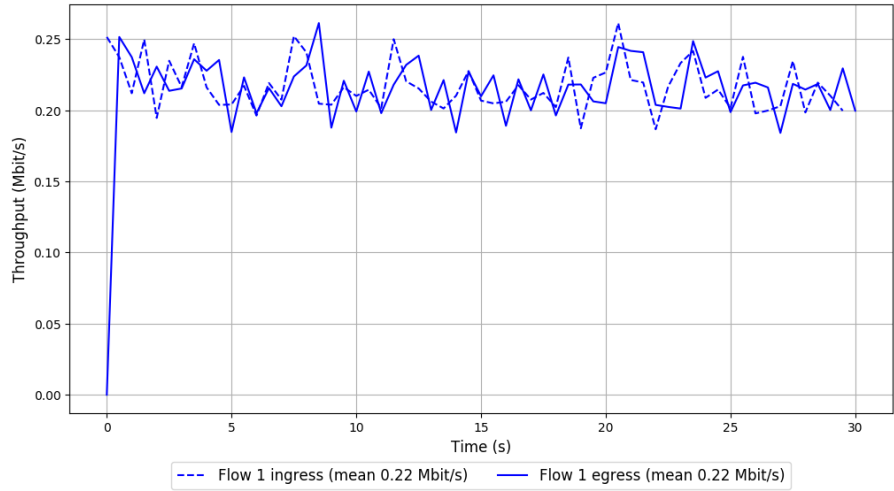
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.954 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link





Run 1: Statistics of Sprout

Start at: 2019-09-18 00:03:18  
End at: 2019-09-18 00:03:48  
Local clock offset: -3.514 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-09-18 02:24:04

# Datalink statistics

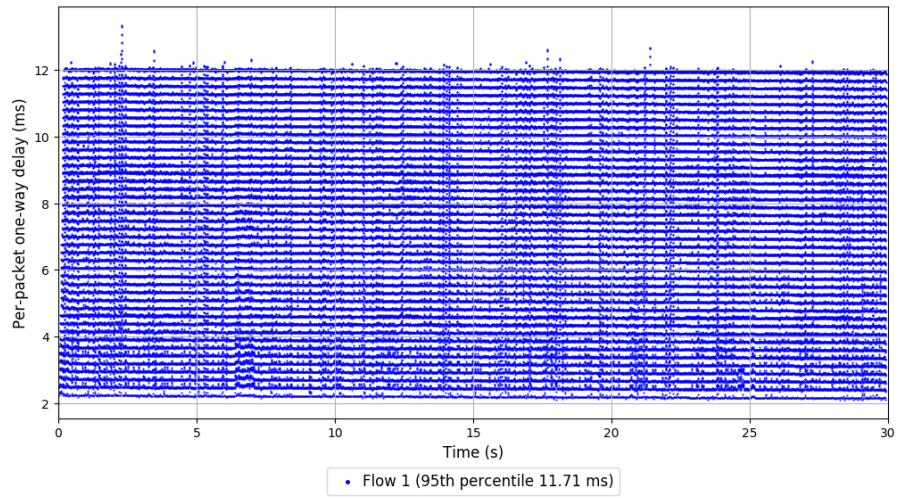
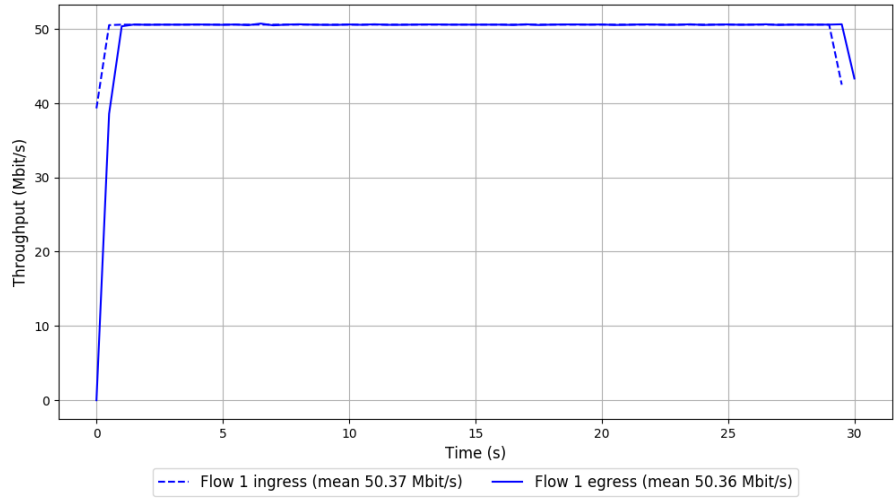
-- Total of 1 flow:

Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 11.705 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 11.705 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-09-18 00:30:01

End at: 2019-09-18 00:30:31

Local clock offset: -4.651 ms

Remote clock offset: 0.241 ms

# Below is generated by plot.py at 2019-09-18 02:24:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.35 Mbit/s

95th percentile per-packet one-way delay: 10.200 ms

Loss rate: 0.00%

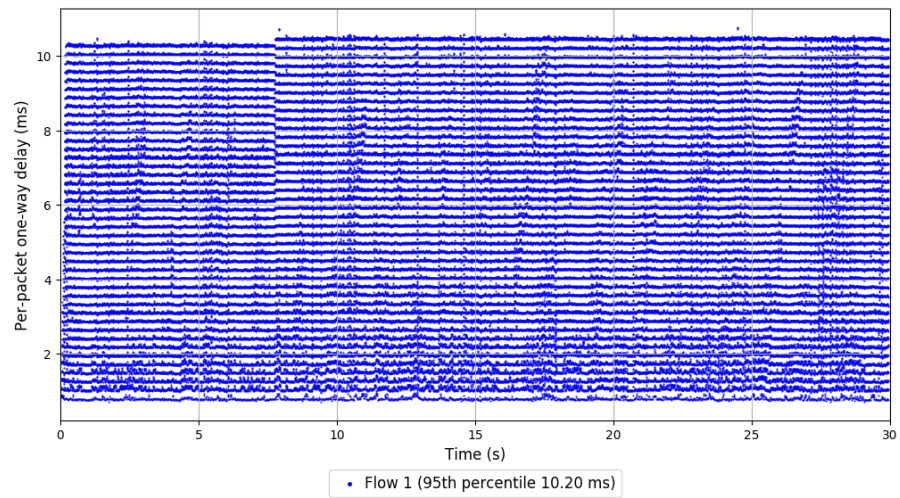
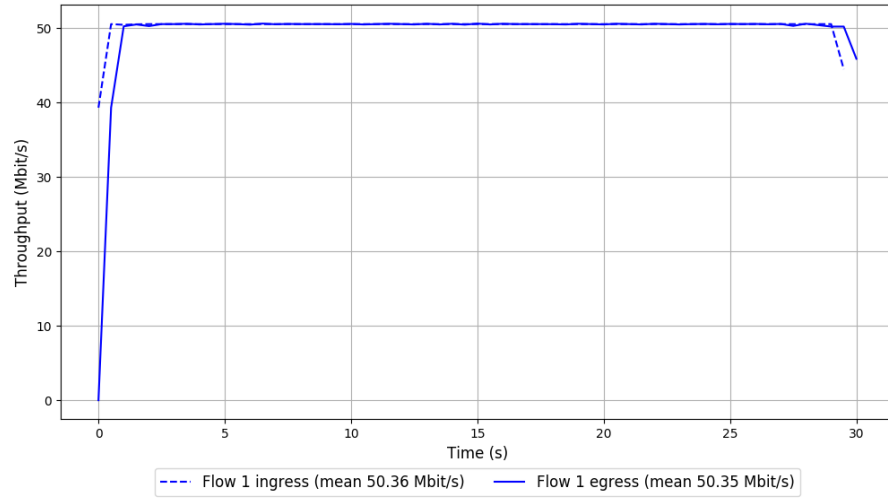
-- Flow 1:

Average throughput: 50.35 Mbit/s

95th percentile per-packet one-way delay: 10.200 ms

Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-09-18 00:56:42

End at: 2019-09-18 00:57:12

Local clock offset: -5.748 ms

Remote clock offset: 0.363 ms

# Below is generated by plot.py at 2019-09-18 02:24:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 12.585 ms

Loss rate: 0.00%

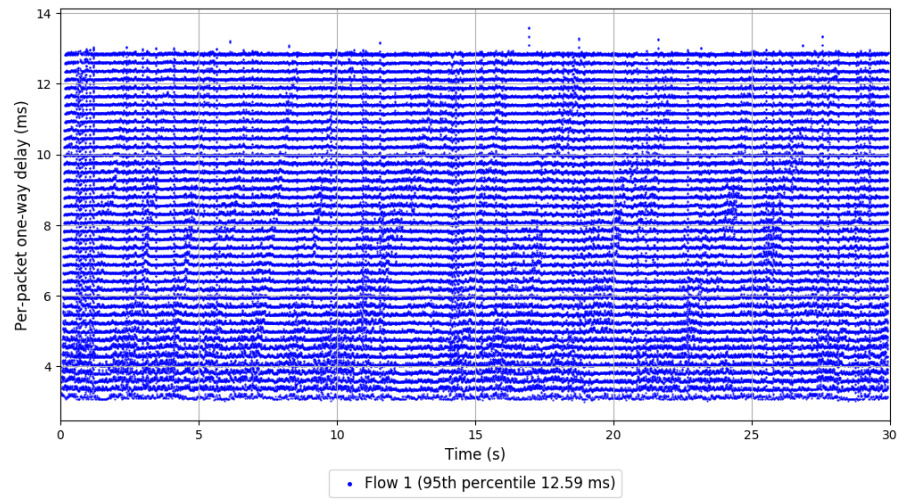
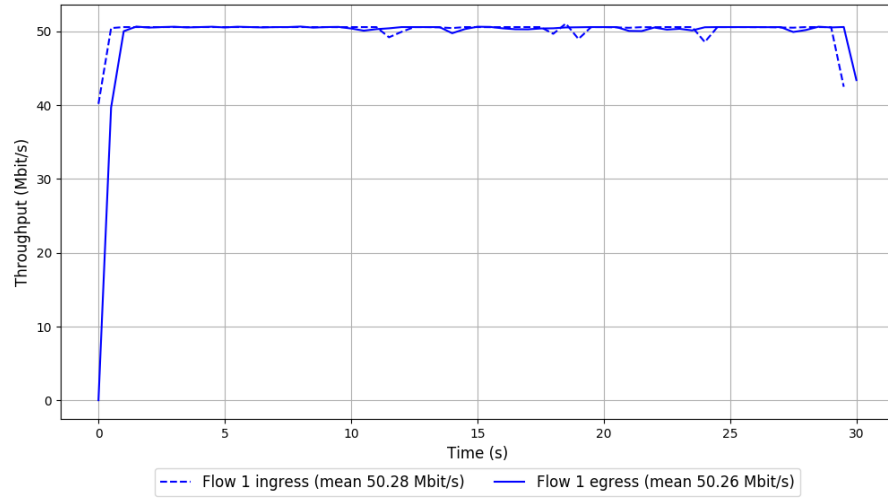
-- Flow 1:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 12.585 ms

Loss rate: 0.00%

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



Run 4: Statistics of Sprout

Start at: 2019-09-18 01:23:19

End at: 2019-09-18 01:23:49

Local clock offset: 3.691 ms

Remote clock offset: 0.521 ms

# Below is generated by plot.py at 2019-09-18 02:24:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 11.957 ms

Loss rate: 0.00%

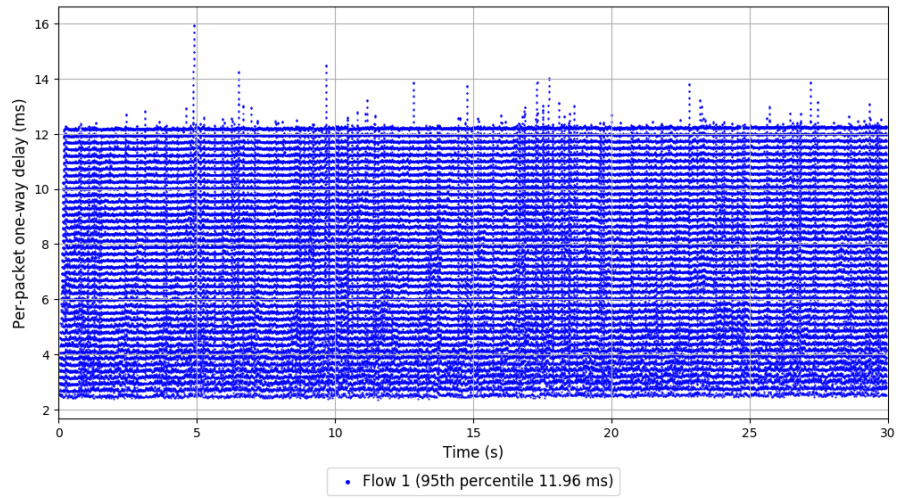
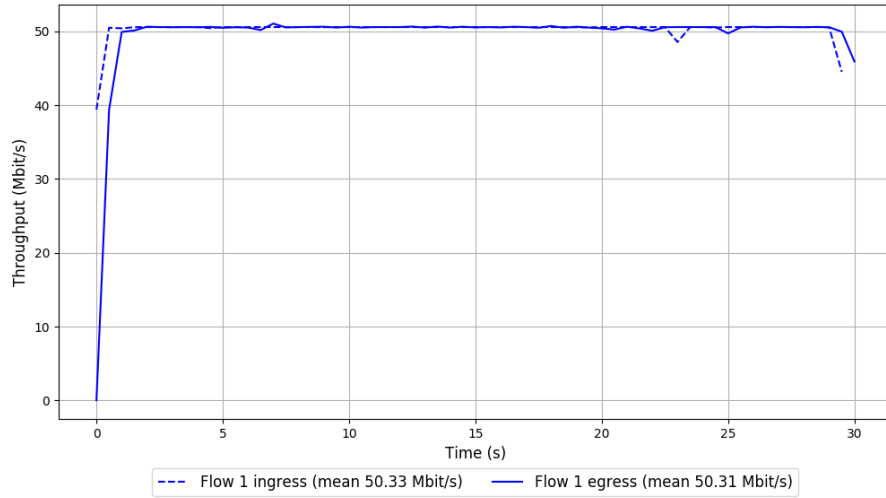
-- Flow 1:

Average throughput: 50.31 Mbit/s

95th percentile per-packet one-way delay: 11.957 ms

Loss rate: 0.00%

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





Run 5: Statistics of Sprout

Start at: 2019-09-18 01:49:59

End at: 2019-09-18 01:50:29

Local clock offset: 5.525 ms

Remote clock offset: 0.545 ms

# Below is generated by plot.py at 2019-09-18 02:24:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 11.970 ms

Loss rate: 0.00%

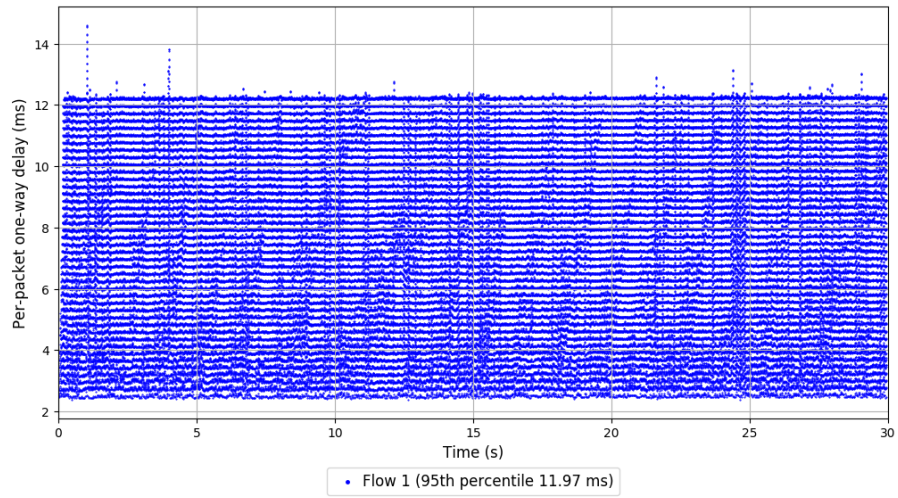
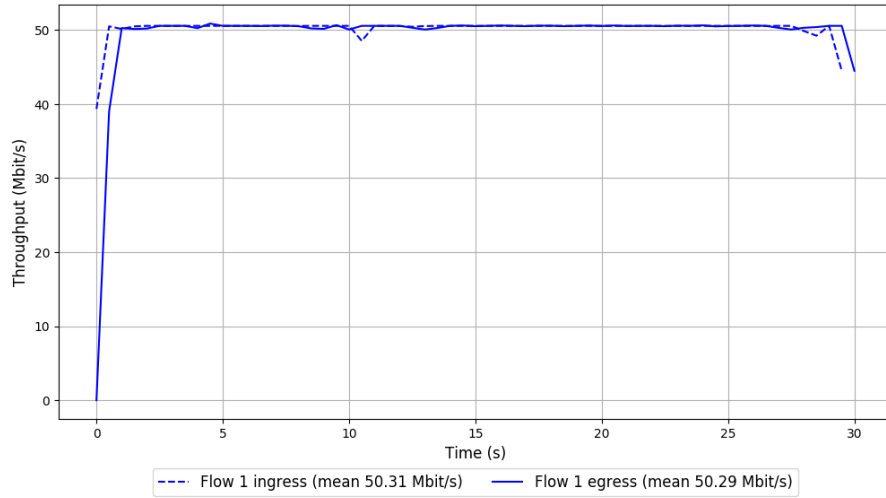
-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 11.970 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

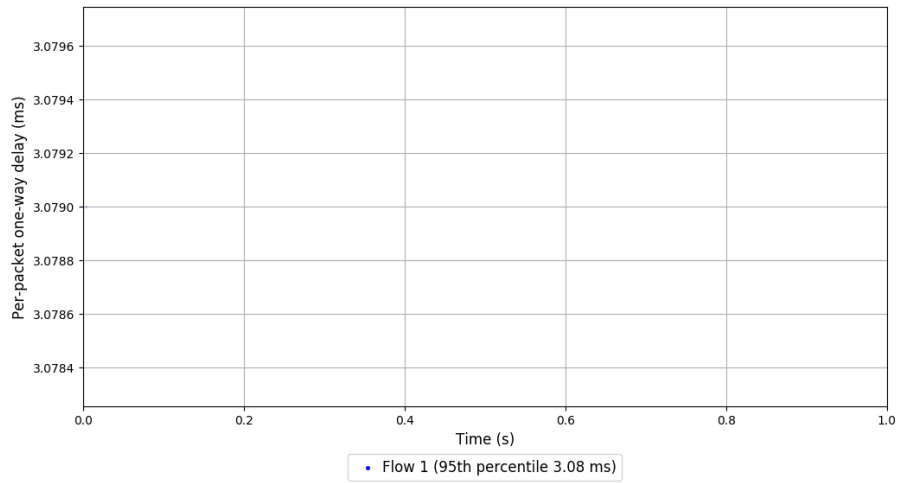
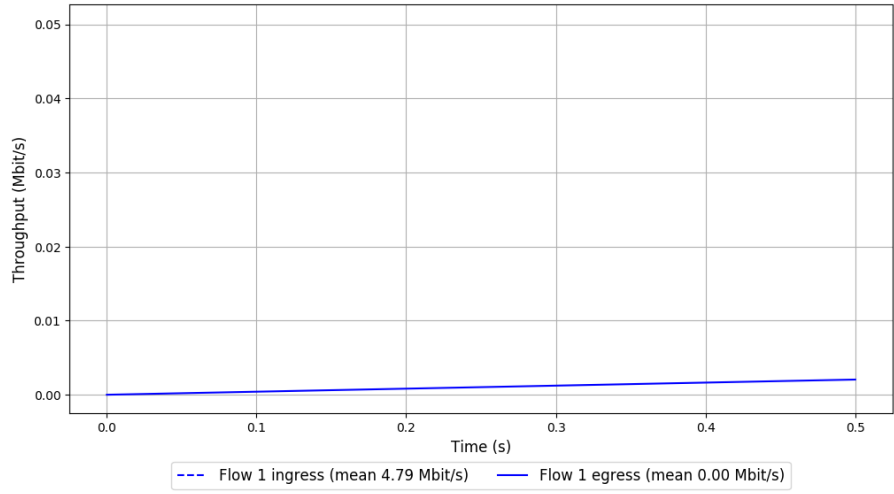
Start at: 2019-09-18 00:01:04

End at: 2019-09-18 00:01:34

Local clock offset: -3.832 ms

Remote clock offset: -0.159 ms

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



Run 2: Statistics of TaoVA-100x

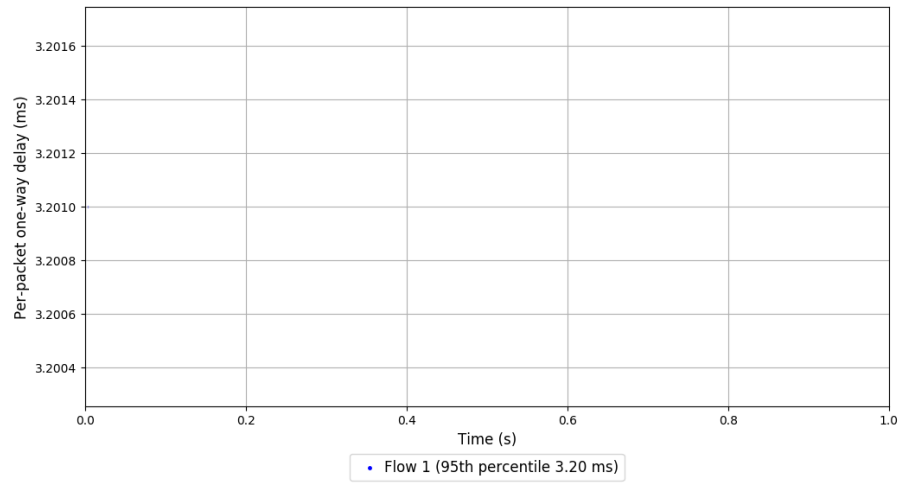
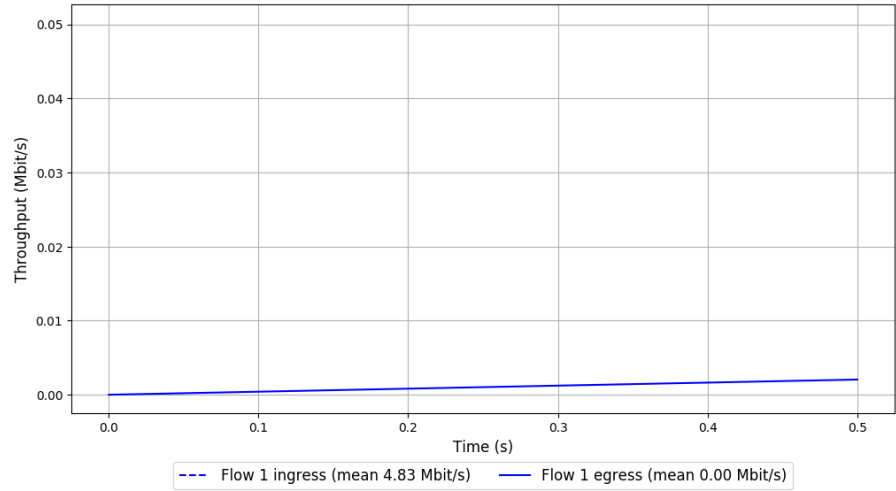
Start at: 2019-09-18 00:27:47

End at: 2019-09-18 00:28:17

Local clock offset: -5.454 ms

Remote clock offset: 0.171 ms

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



Run 3: Statistics of TaoVA-100x

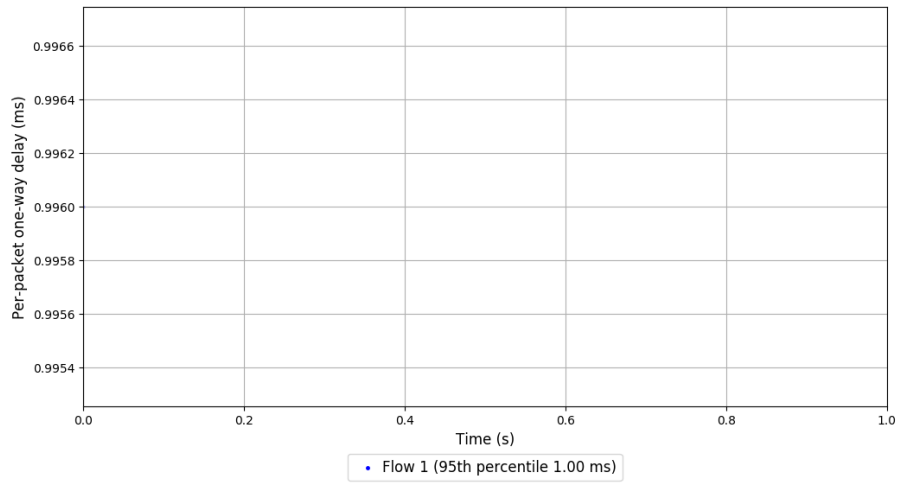
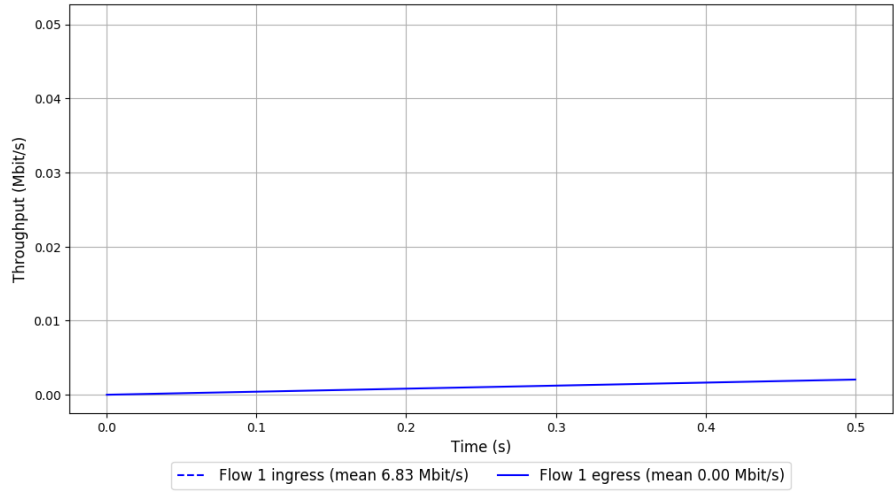
Start at: 2019-09-18 00:54:28

End at: 2019-09-18 00:54:58

Local clock offset: -4.98 ms

Remote clock offset: 0.426 ms

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





Run 4: Statistics of TaoVA-100x

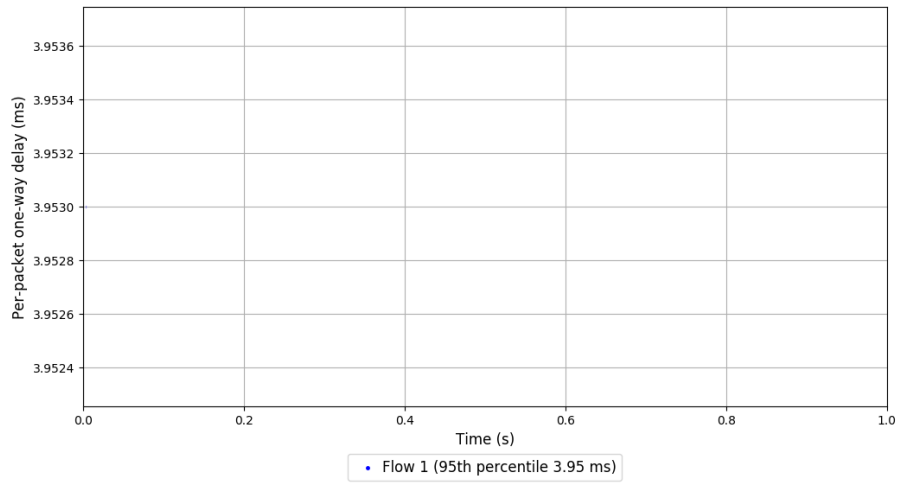
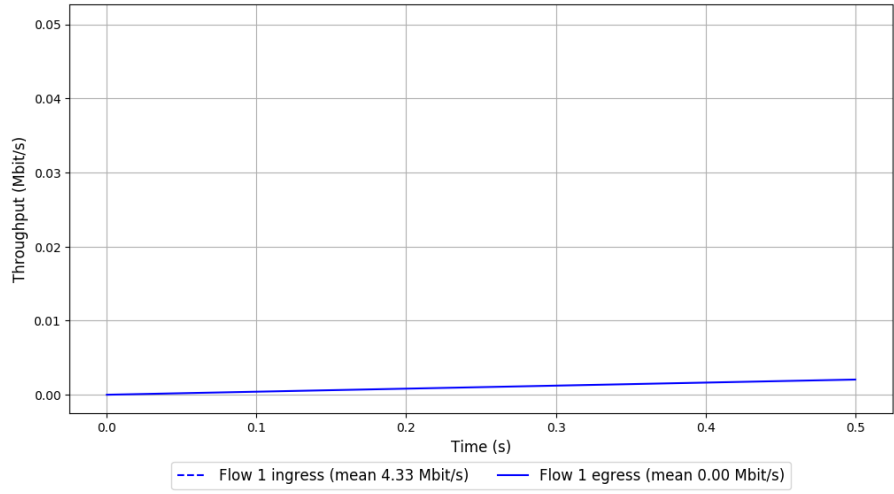
Start at: 2019-09-18 01:21:05

End at: 2019-09-18 01:21:35

Local clock offset: 2.497 ms

Remote clock offset: 0.539 ms

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



Run 5: Statistics of TaoVA-100x

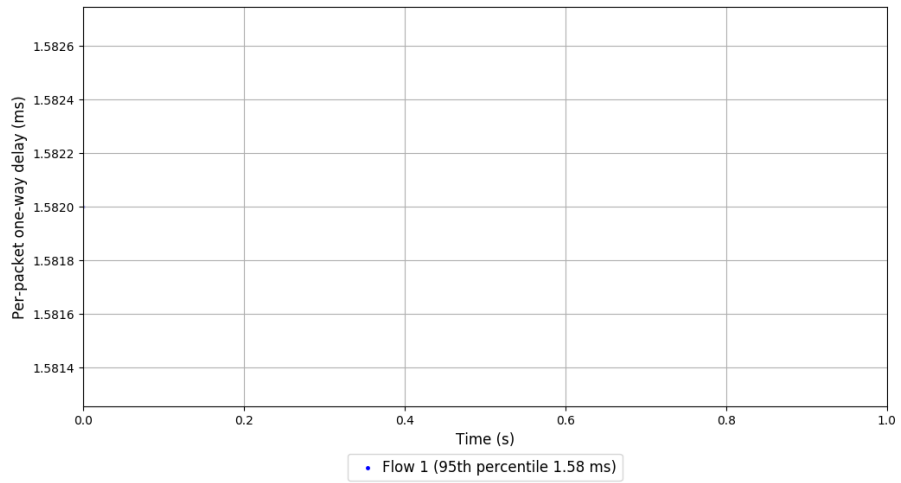
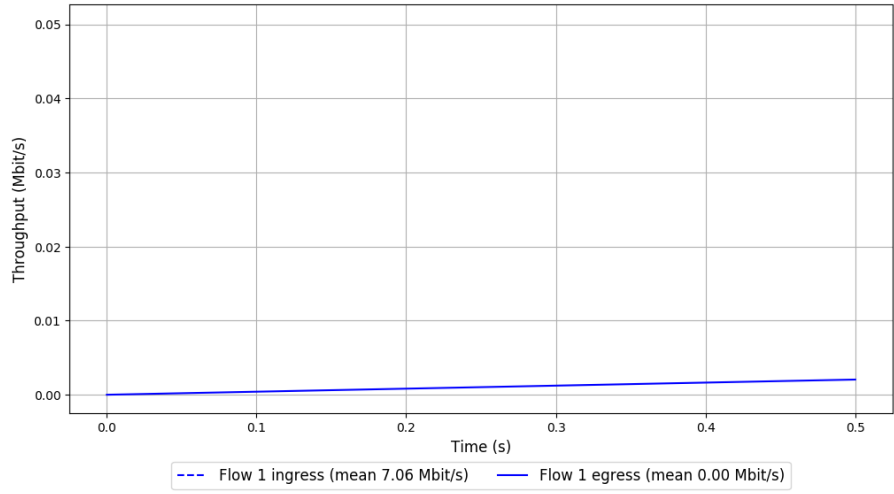
Start at: 2019-09-18 01:47:45

End at: 2019-09-18 01:48:15

Local clock offset: 4.575 ms

Remote clock offset: 0.455 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 00:14:23

End at: 2019-09-18 00:14:53

Local clock offset: -4.534 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-09-18 02:25:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 2.309 ms

Loss rate: 0.00%

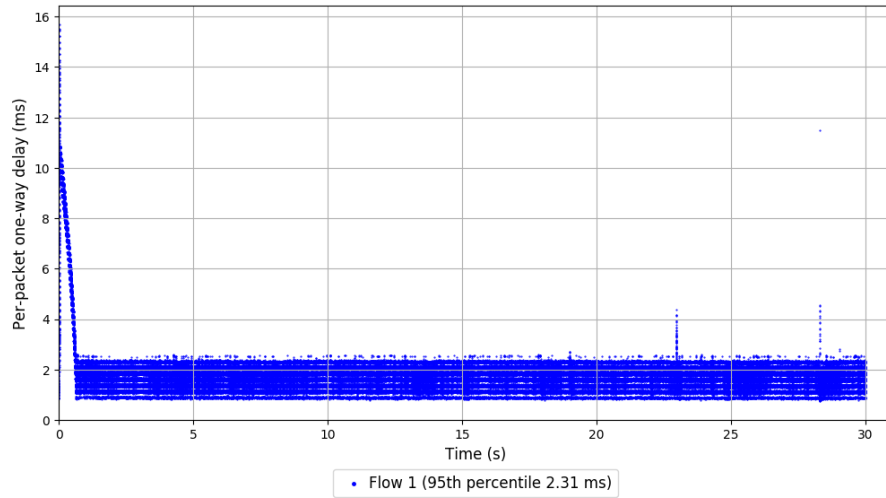
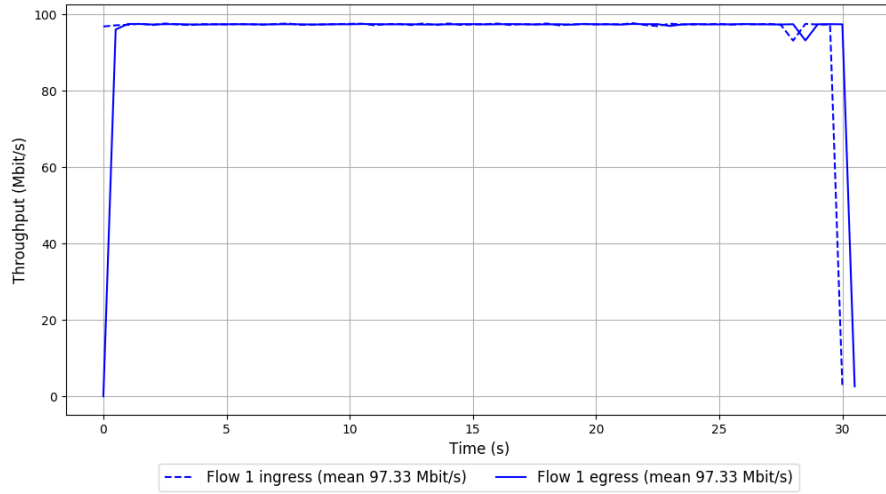
-- Flow 1:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 2.309 ms

Loss rate: 0.00%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 00:41:01

End at: 2019-09-18 00:41:31

Local clock offset: -4.968 ms

Remote clock offset: 0.333 ms

# Below is generated by plot.py at 2019-09-18 02:25:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.25 Mbit/s

95th percentile per-packet one-way delay: 2.315 ms

Loss rate: 0.00%

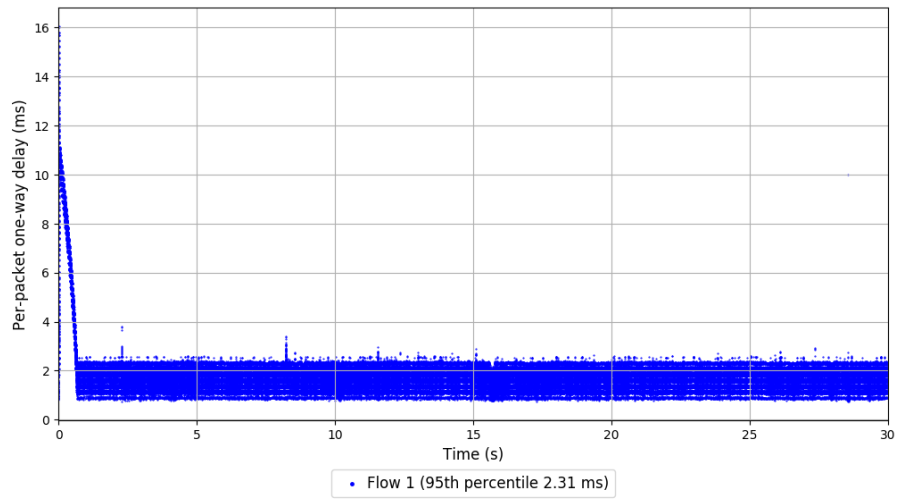
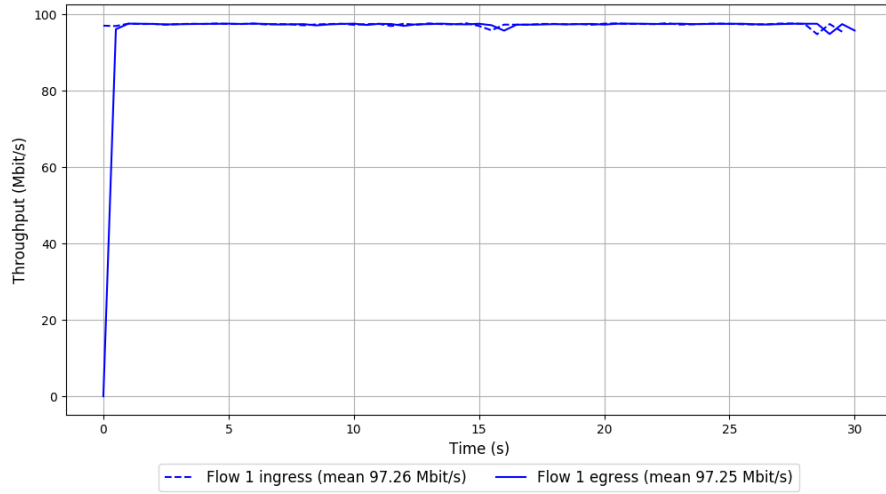
-- Flow 1:

Average throughput: 97.25 Mbit/s

95th percentile per-packet one-way delay: 2.315 ms

Loss rate: 0.00%

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





Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 01:07:42

End at: 2019-09-18 01:08:12

Local clock offset: -1.259 ms

Remote clock offset: 0.429 ms

# Below is generated by plot.py at 2019-09-18 02:25:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 4.935 ms

Loss rate: 0.00%

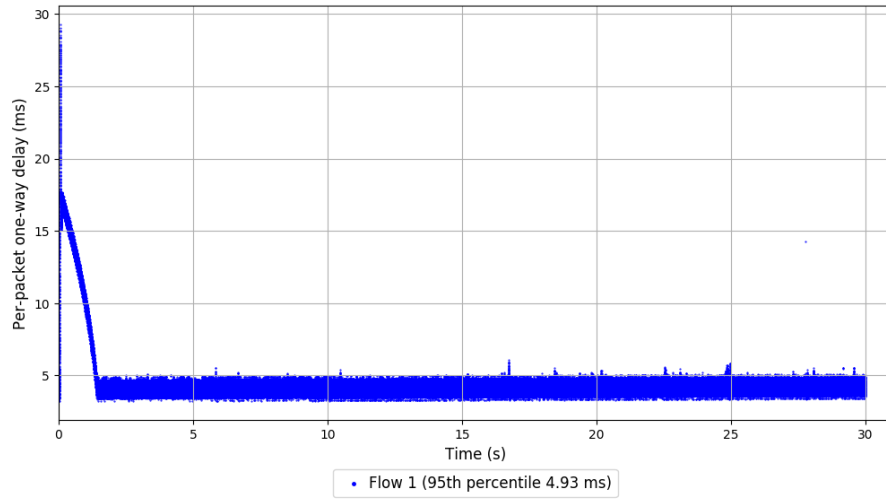
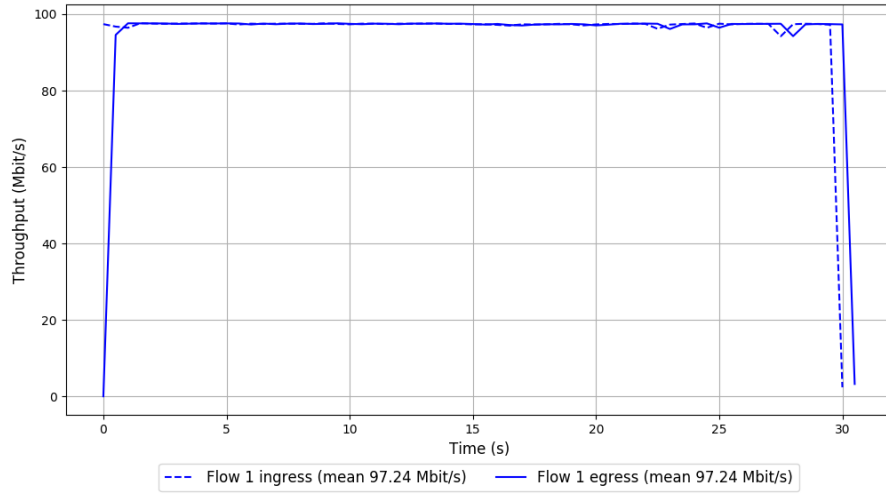
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 4.935 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-09-18 01:34:19

End at: 2019-09-18 01:34:49

Local clock offset: 4.694 ms

Remote clock offset: 0.537 ms

# Below is generated by plot.py at 2019-09-18 02:25:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 2.320 ms

Loss rate: 0.00%

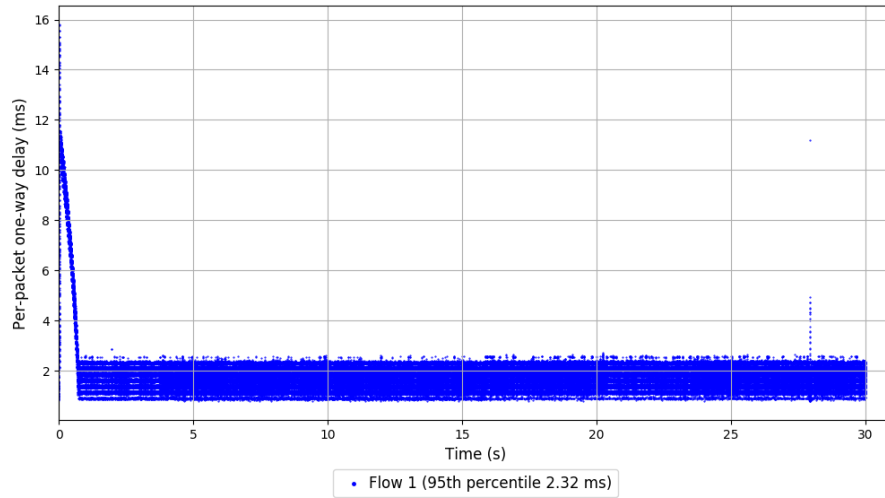
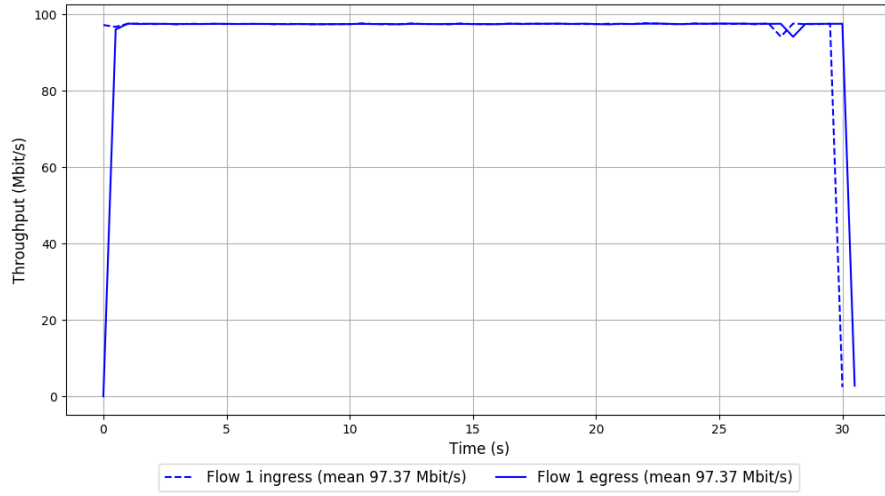
-- Flow 1:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 2.320 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-09-18 02:00:59

End at: 2019-09-18 02:01:29

Local clock offset: 6.28 ms

Remote clock offset: 0.532 ms

# Below is generated by plot.py at 2019-09-18 02:25:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 1.332 ms

Loss rate: 0.01%

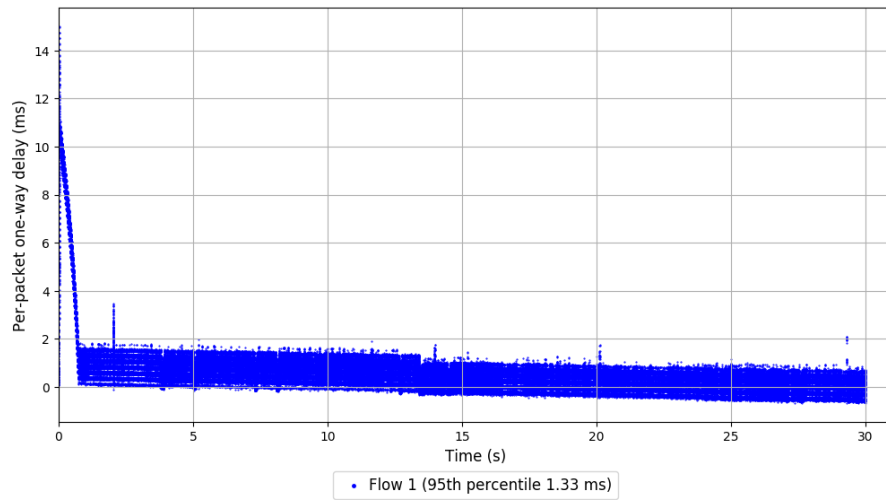
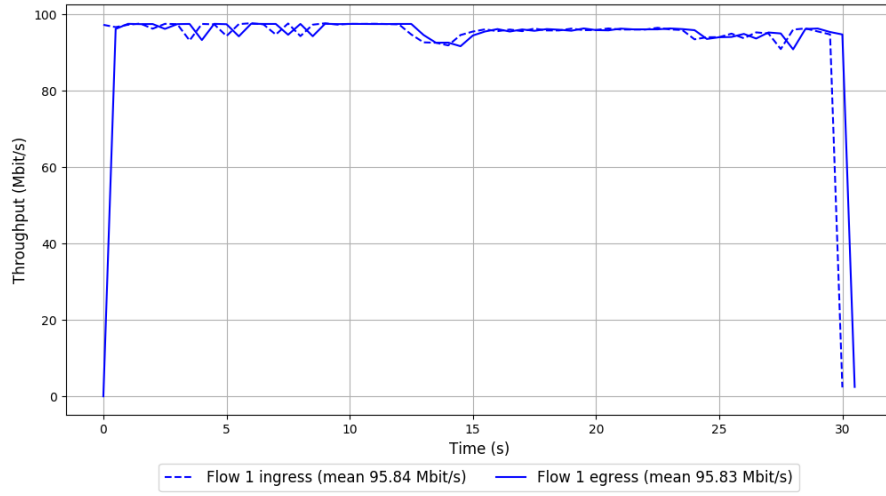
-- Flow 1:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 1.332 ms

Loss rate: 0.01%

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



Run 1: Statistics of Verus

Start at: 2019-09-18 00:19:57

End at: 2019-09-18 00:20:27

Local clock offset: -4.684 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2019-09-18 02:25:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 6.862 ms

Loss rate: 1.40%

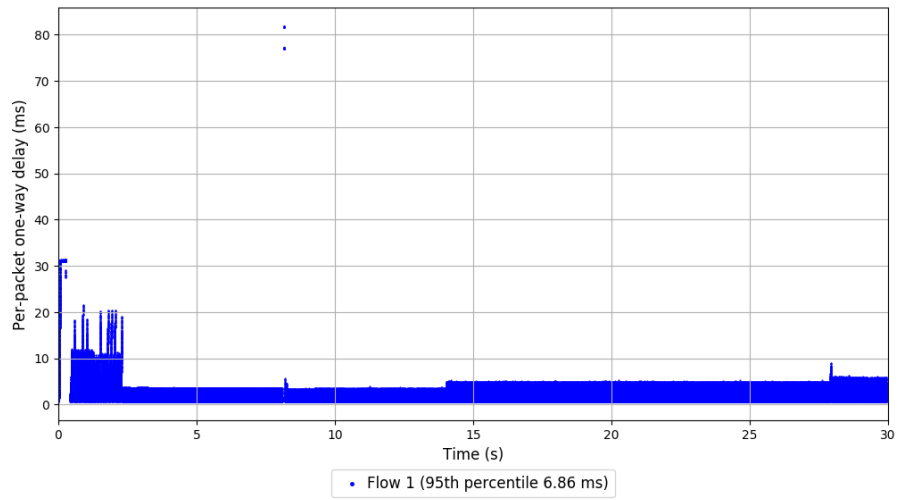
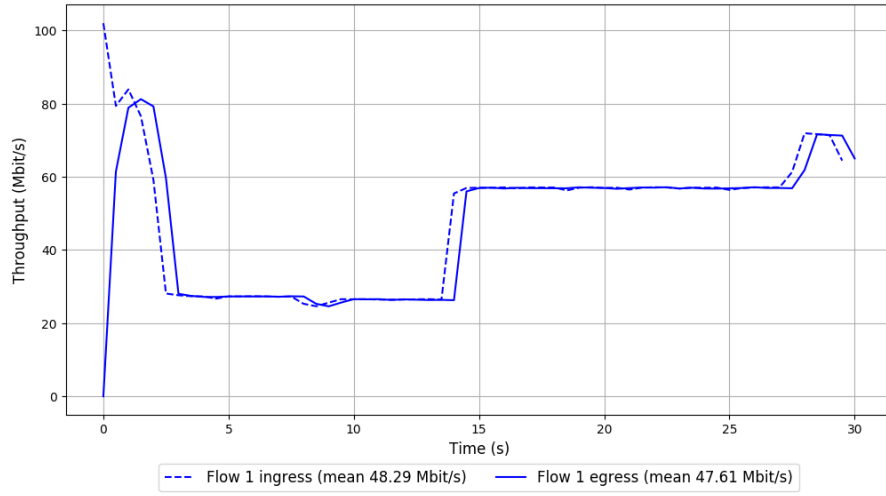
-- Flow 1:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 6.862 ms

Loss rate: 1.40%

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





Run 2: Statistics of Verus

Start at: 2019-09-18 00:46:36

End at: 2019-09-18 00:47:06

Local clock offset: -5.011 ms

Remote clock offset: 0.351 ms

# Below is generated by plot.py at 2019-09-18 02:25:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.20 Mbit/s

95th percentile per-packet one-way delay: 5.946 ms

Loss rate: 1.28%

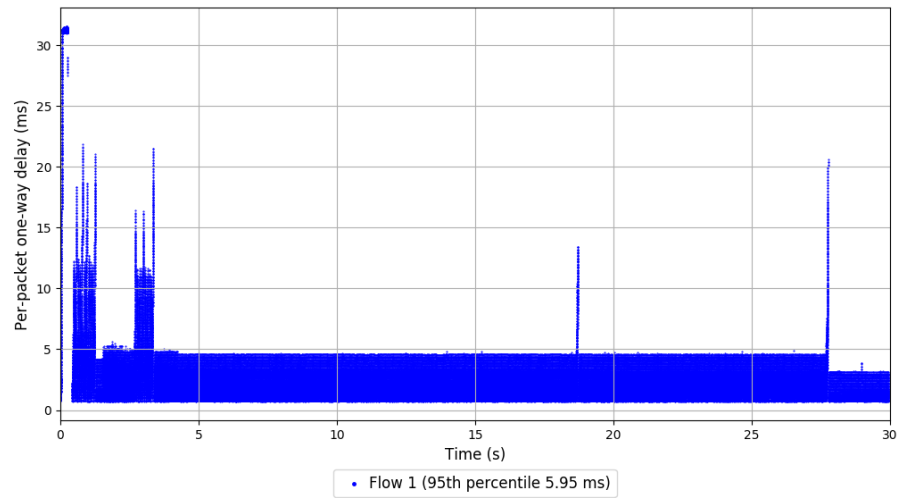
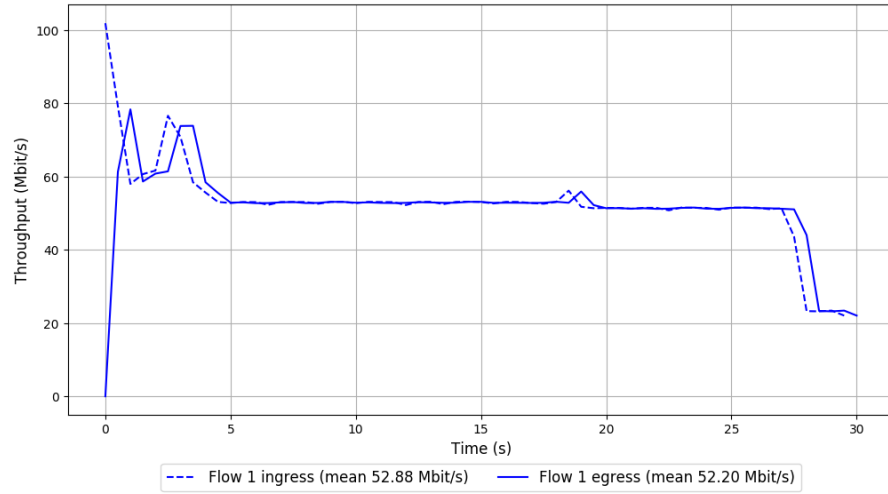
-- Flow 1:

Average throughput: 52.20 Mbit/s

95th percentile per-packet one-way delay: 5.946 ms

Loss rate: 1.28%

## Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-09-18 01:13:16

End at: 2019-09-18 01:13:46

Local clock offset: 1.487 ms

Remote clock offset: 0.568 ms

# Below is generated by plot.py at 2019-09-18 02:25:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 6.962 ms

Loss rate: 2.02%

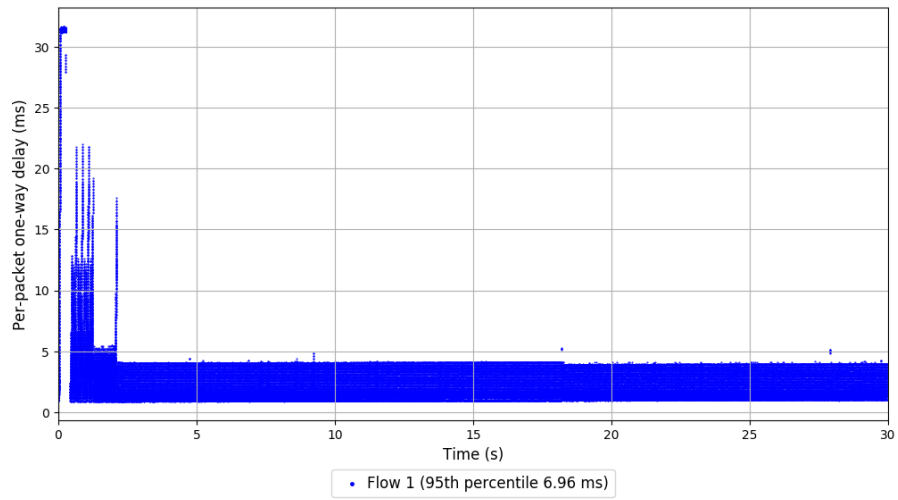
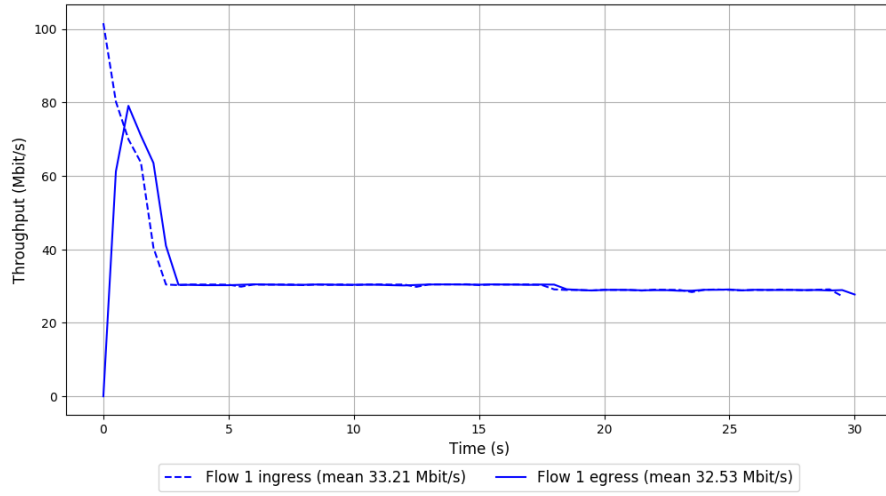
-- Flow 1:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 6.962 ms

Loss rate: 2.02%

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



Run 4: Statistics of Verus

Start at: 2019-09-18 01:39:54

End at: 2019-09-18 01:40:24

Local clock offset: 4.881 ms

Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-09-18 02:25:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 8.670 ms

Loss rate: 0.95%

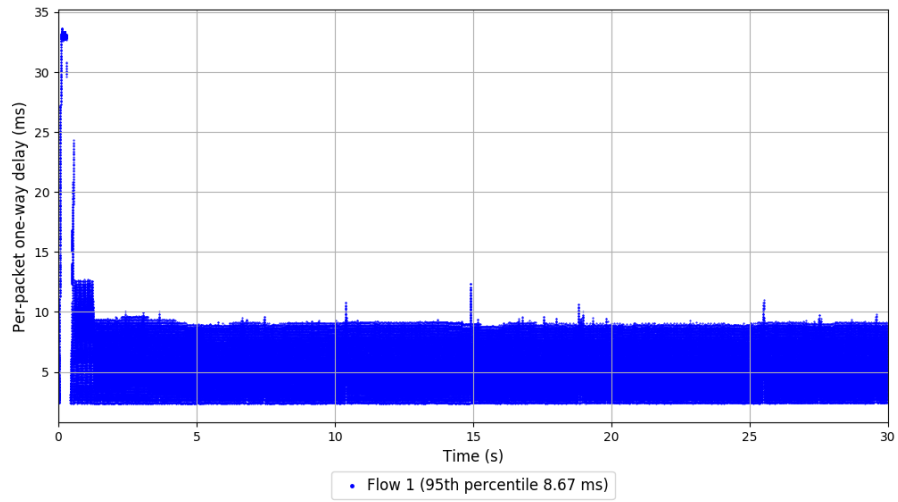
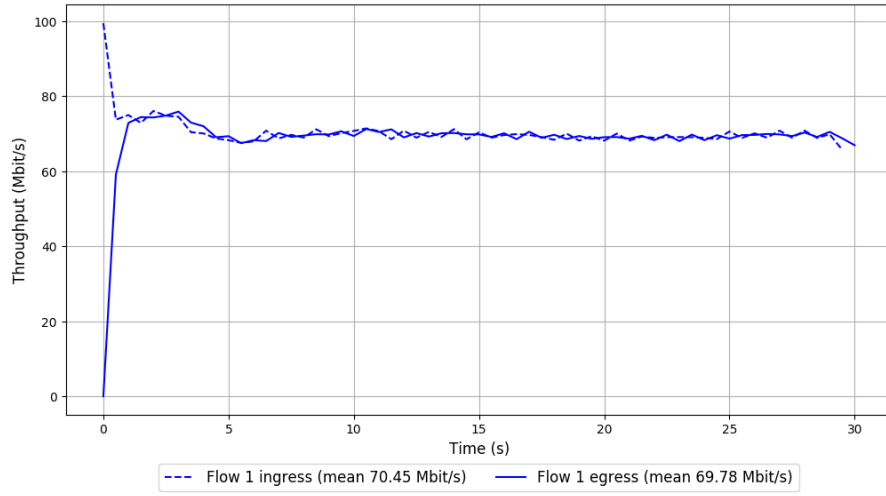
-- Flow 1:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 8.670 ms

Loss rate: 0.95%

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



Run 5: Statistics of Verus

Start at: 2019-09-18 02:06:33

End at: 2019-09-18 02:07:03

Local clock offset: -0.662 ms

Remote clock offset: 0.431 ms

# Below is generated by plot.py at 2019-09-18 02:25:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.50 Mbit/s

95th percentile per-packet one-way delay: 9.028 ms

Loss rate: 0.93%

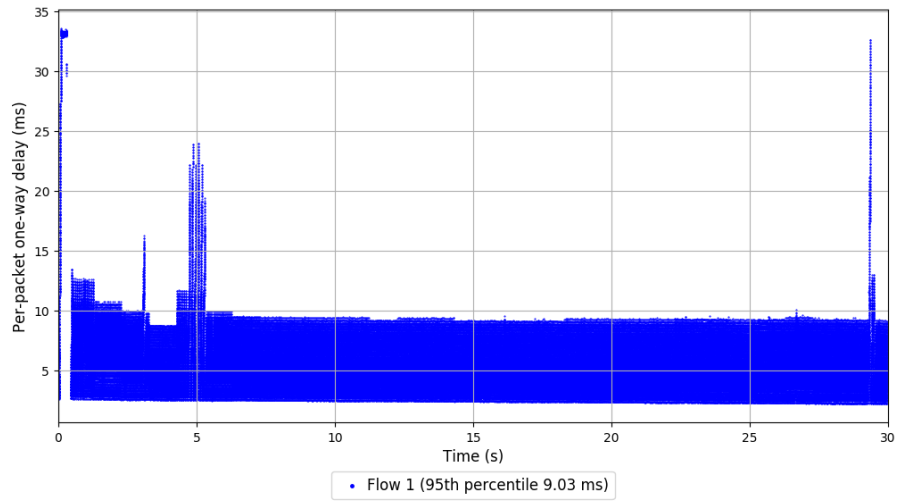
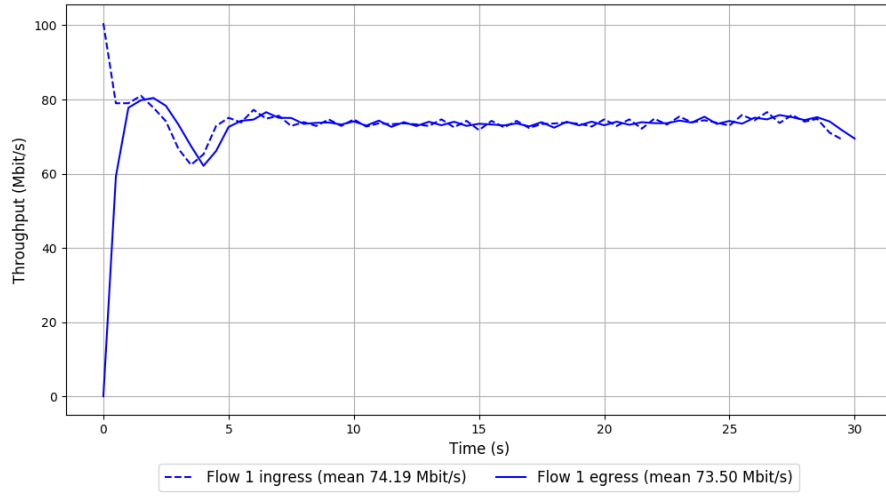
-- Flow 1:

Average throughput: 73.50 Mbit/s

95th percentile per-packet one-way delay: 9.028 ms

Loss rate: 0.93%

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





Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 00:07:49

End at: 2019-09-18 00:08:19

Local clock offset: -4.909 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-09-18 02:25:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.33 Mbit/s

95th percentile per-packet one-way delay: 1.847 ms

Loss rate: 0.00%

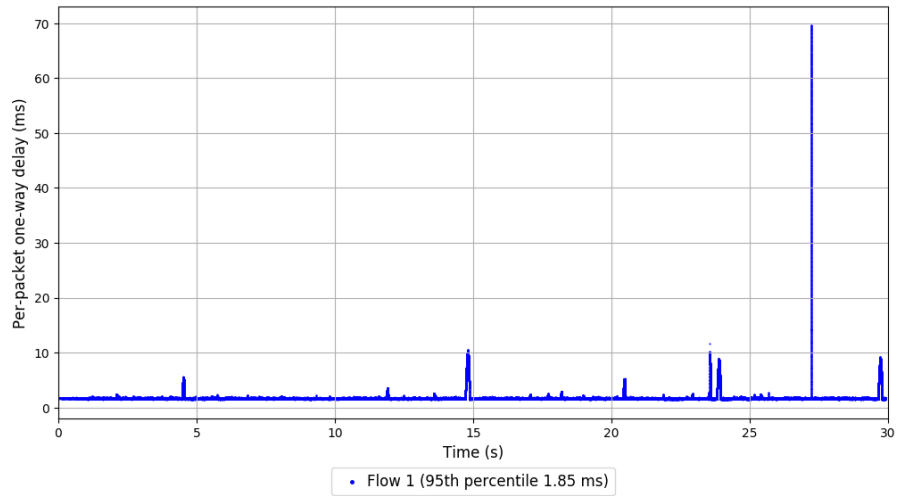
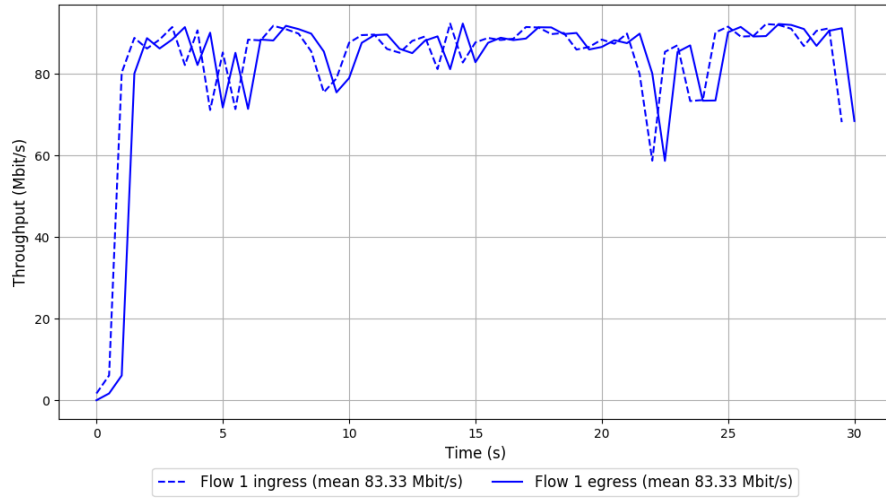
-- Flow 1:

Average throughput: 83.33 Mbit/s

95th percentile per-packet one-way delay: 1.847 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 00:34:27

End at: 2019-09-18 00:34:57

Local clock offset: -4.823 ms

Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2019-09-18 02:25:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.76 Mbit/s

95th percentile per-packet one-way delay: 0.914 ms

Loss rate: 0.00%

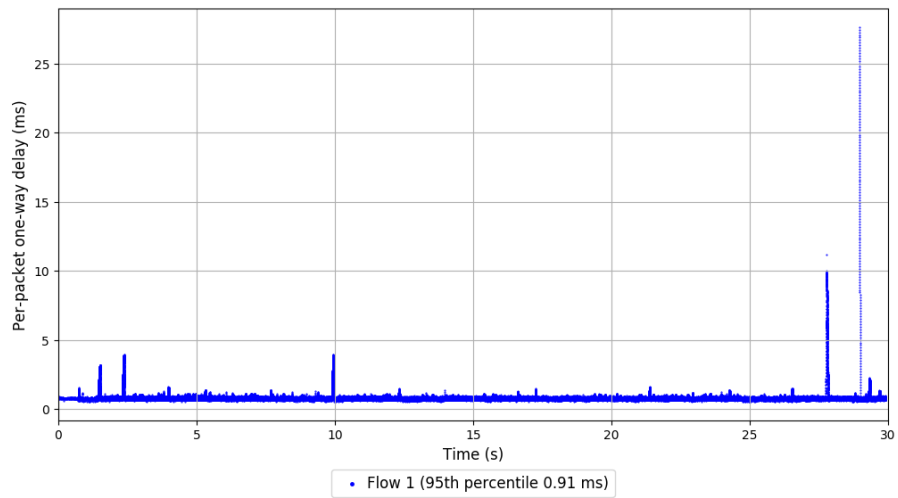
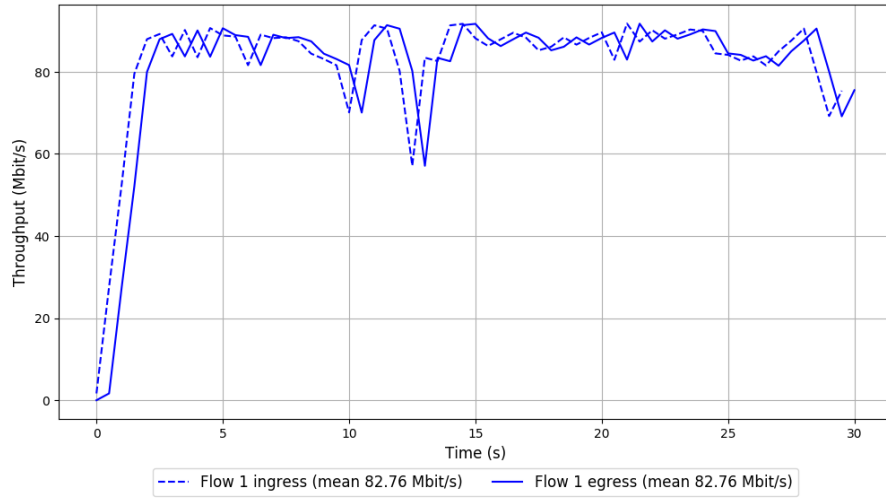
-- Flow 1:

Average throughput: 82.76 Mbit/s

95th percentile per-packet one-way delay: 0.914 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 01:01:08

End at: 2019-09-18 01:01:38

Local clock offset: -5.385 ms

Remote clock offset: 0.539 ms

# Below is generated by plot.py at 2019-09-18 02:25:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 4.254 ms

Loss rate: 0.00%

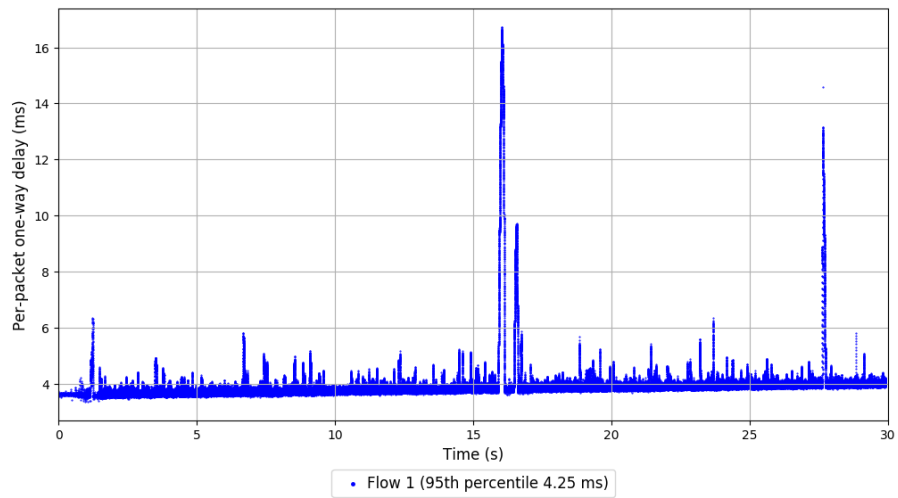
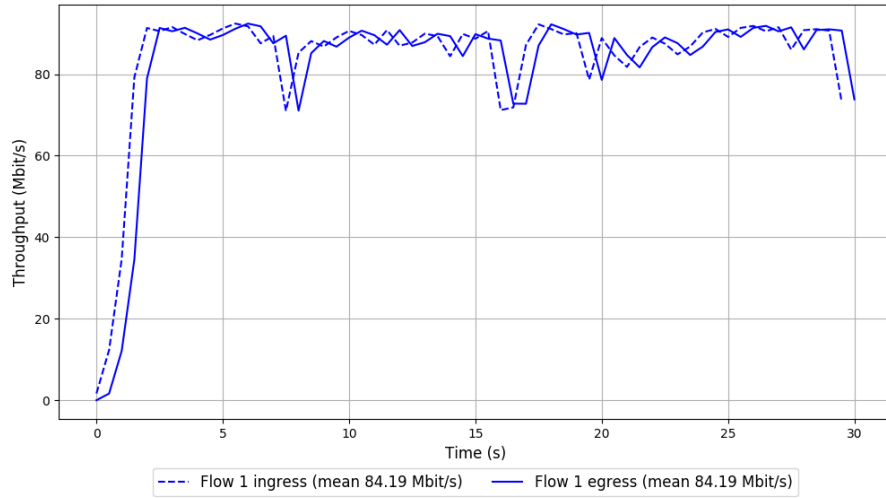
-- Flow 1:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 4.254 ms

Loss rate: 0.00%

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



Run 4: Statistics of PCC-Vivace

Start at: 2019-09-18 01:27:45

End at: 2019-09-18 01:28:15

Local clock offset: 3.548 ms

Remote clock offset: 0.511 ms

# Below is generated by plot.py at 2019-09-18 02:25:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 1.862 ms

Loss rate: 0.00%

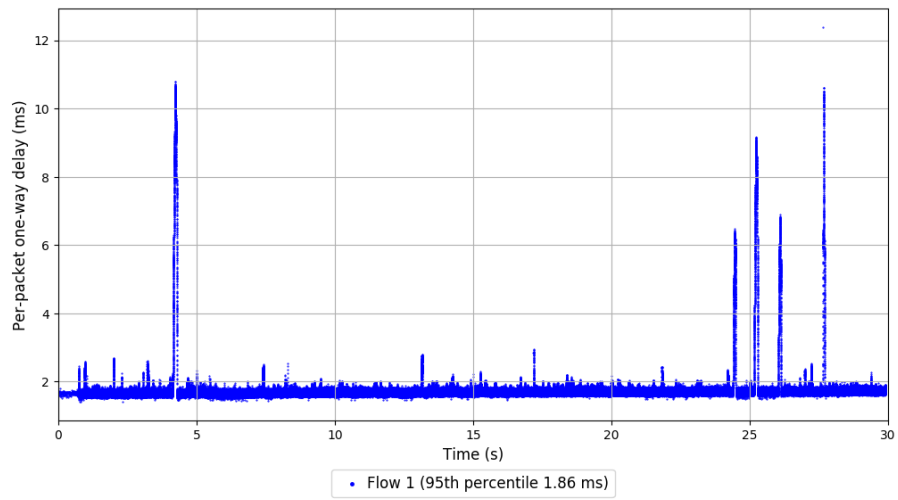
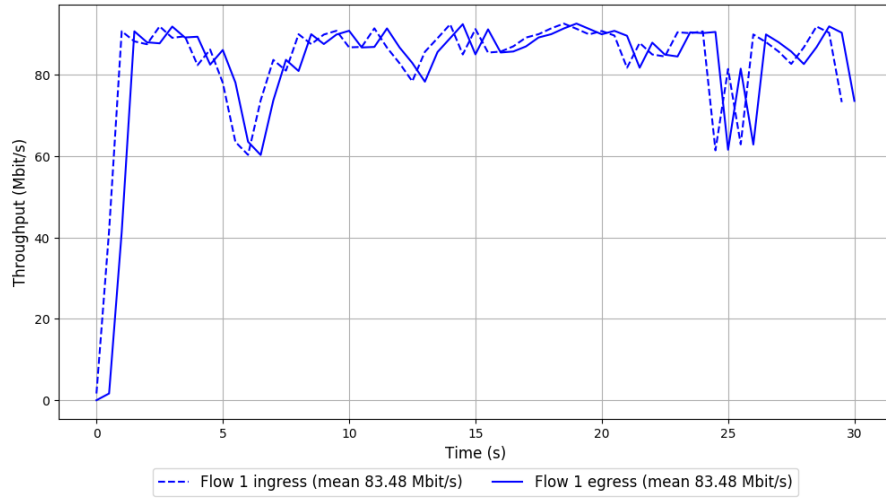
-- Flow 1:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 1.862 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-09-18 01:54:25

End at: 2019-09-18 01:54:55

Local clock offset: 5.901 ms

Remote clock offset: 0.588 ms

# Below is generated by plot.py at 2019-09-18 02:25:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.88 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.00%

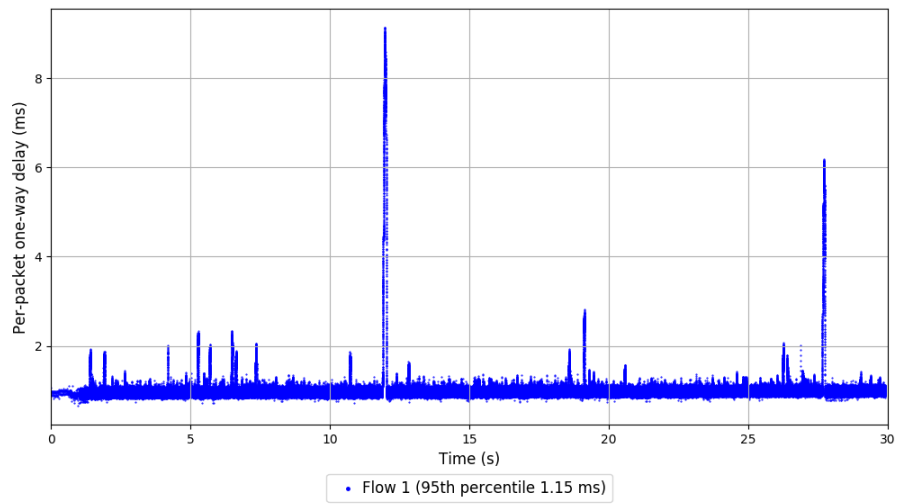
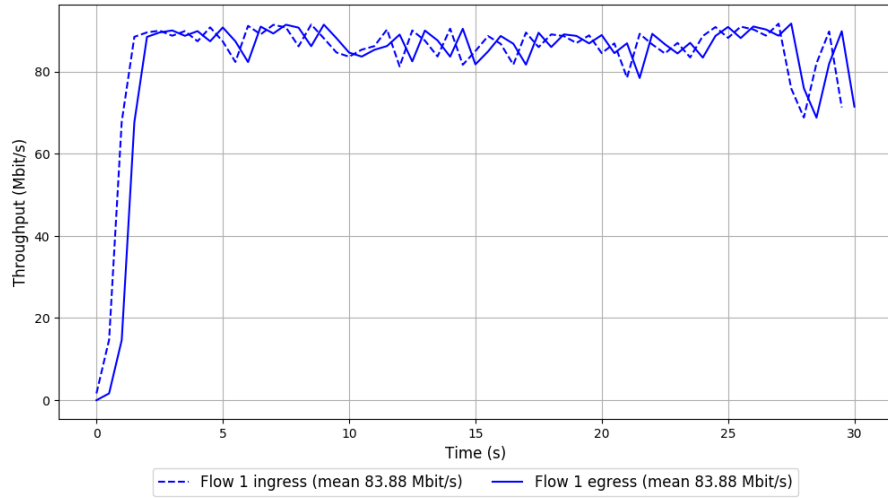
-- Flow 1:

Average throughput: 83.88 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-09-18 00:12:14

End at: 2019-09-18 00:12:44

Local clock offset: -5.239 ms

Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2019-09-18 02:25:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 2.193 ms

Loss rate: 0.00%

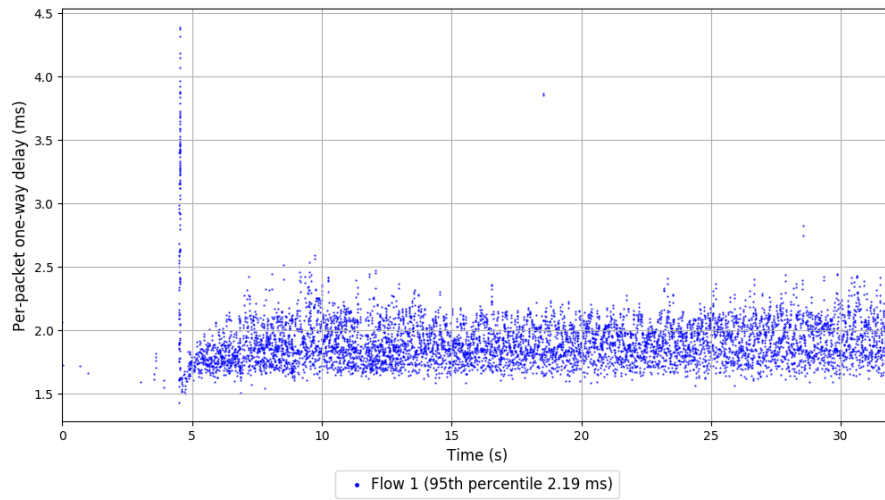
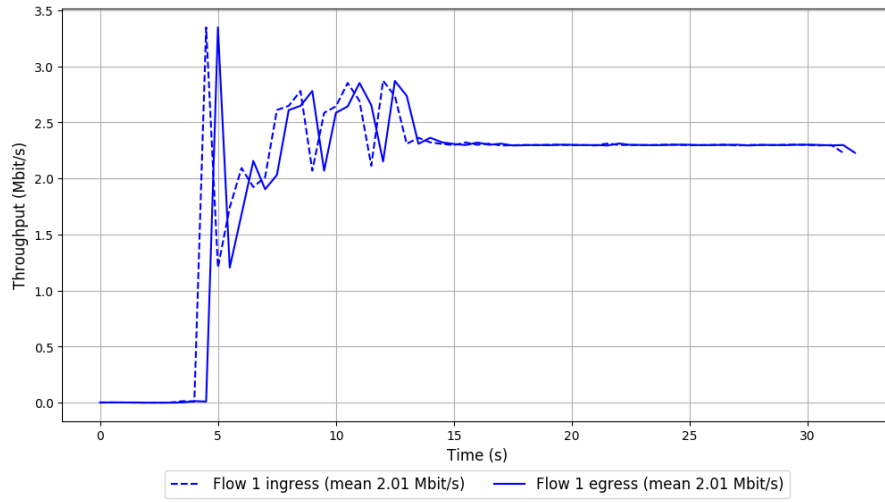
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 2.193 ms

Loss rate: 0.00%

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



Run 2: Statistics of WebRTC media

Start at: 2019-09-18 00:38:53

End at: 2019-09-18 00:39:23

Local clock offset: -5.769 ms

Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2019-09-18 02:25:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.843 ms

Loss rate: 0.00%

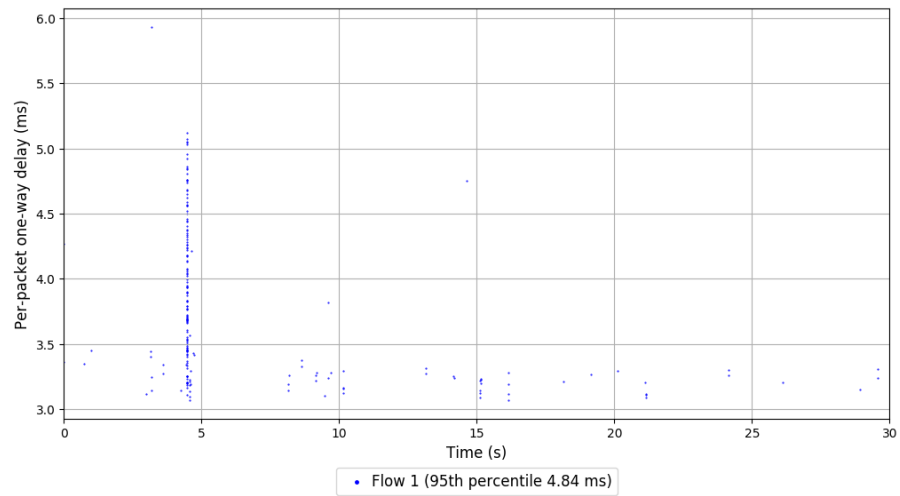
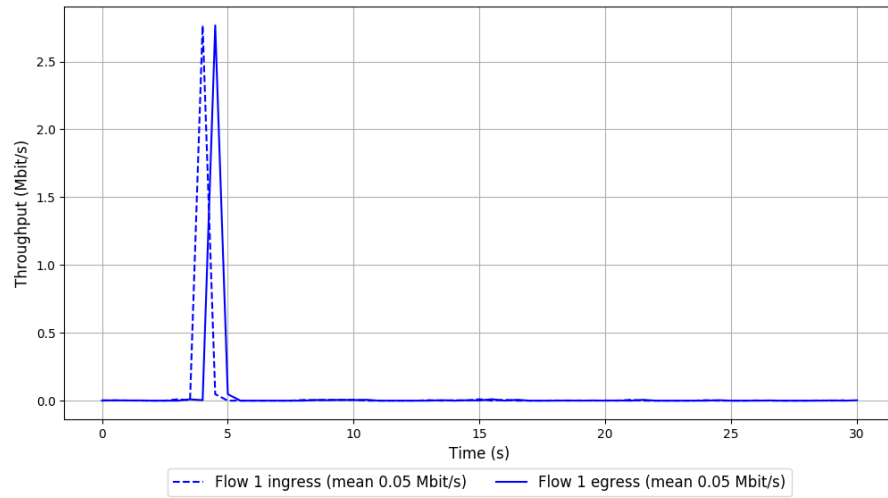
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.843 ms

Loss rate: 0.00%

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



Run 3: Statistics of WebRTC media

Start at: 2019-09-18 01:05:33

End at: 2019-09-18 01:06:03

Local clock offset: -2.332 ms

Remote clock offset: 0.427 ms

# Below is generated by plot.py at 2019-09-18 02:25:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.774 ms

Loss rate: 0.00%

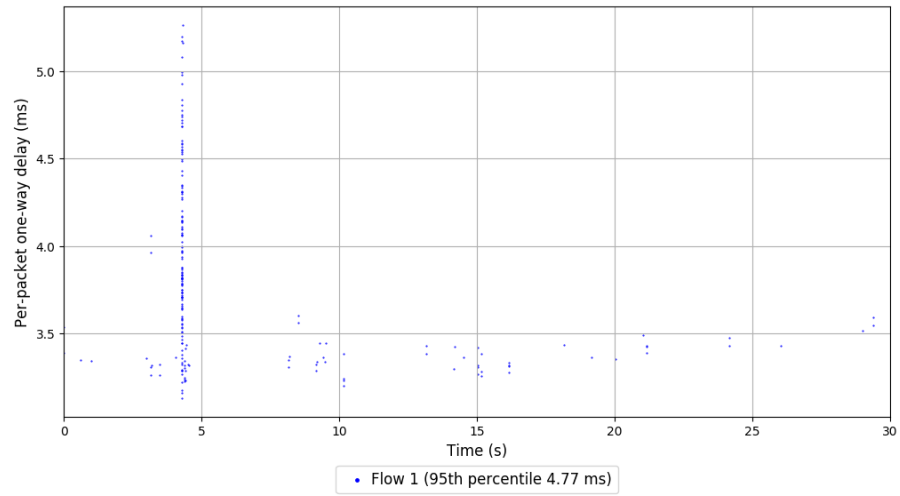
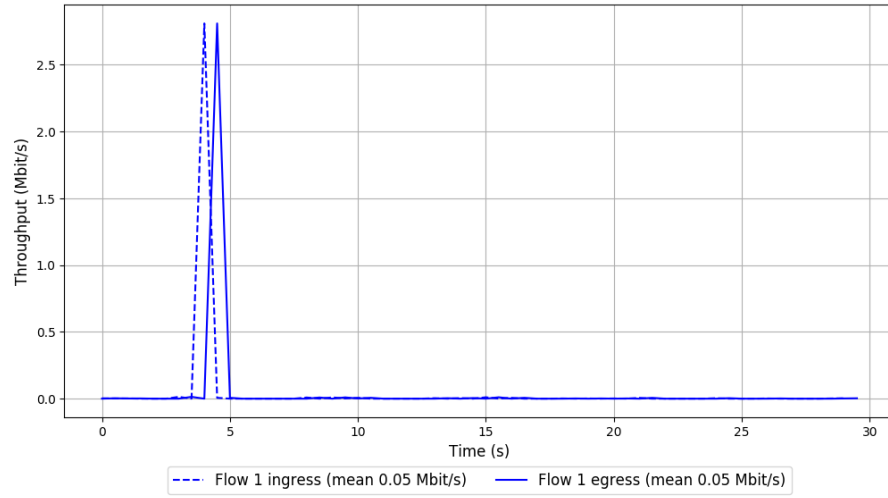
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.774 ms

Loss rate: 0.00%

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





Run 4: Statistics of WebRTC media

Start at: 2019-09-18 01:32:11

End at: 2019-09-18 01:32:41

Local clock offset: 4.707 ms

Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2019-09-18 02:25:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.776 ms

Loss rate: 0.00%

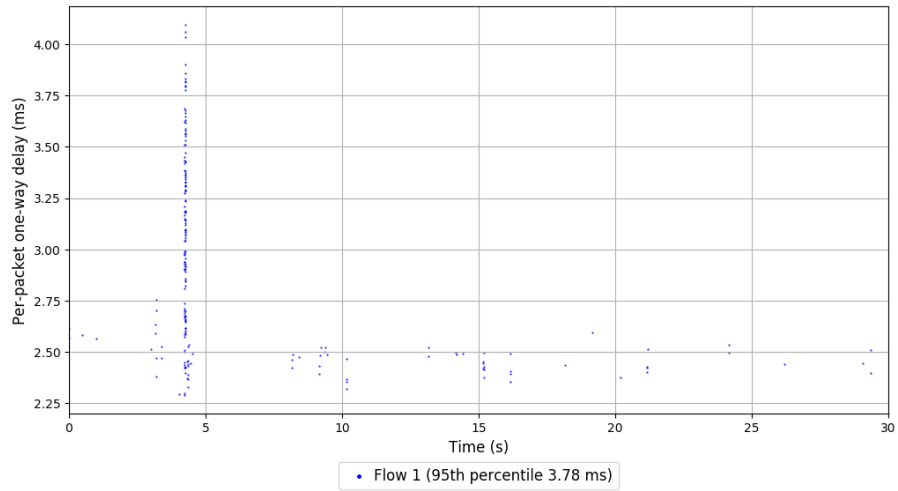
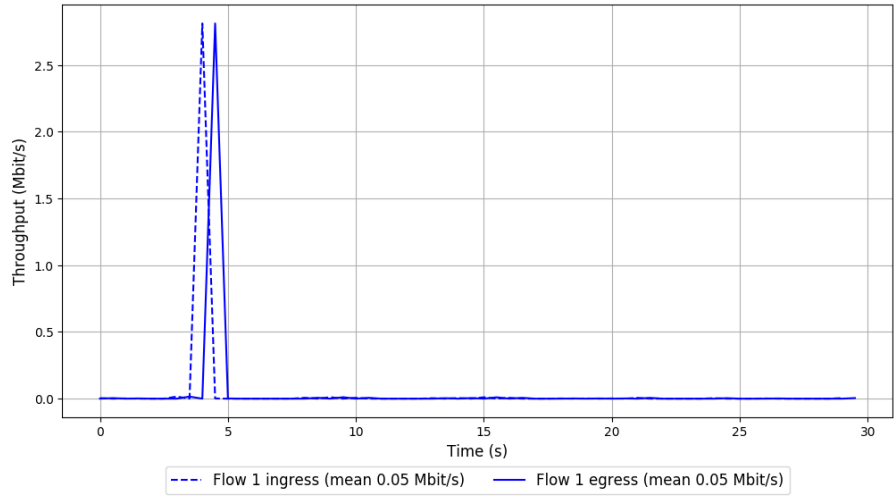
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.776 ms

Loss rate: 0.00%

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



Run 5: Statistics of WebRTC media

Start at: 2019-09-18 01:58:50

End at: 2019-09-18 01:59:20

Local clock offset: 6.214 ms

Remote clock offset: 0.492 ms

# Below is generated by plot.py at 2019-09-18 02:25:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.962 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.962 ms

Loss rate: 0.00%

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

