

## Pantheon Report

Generated at 2019-06-27 21:20:23 (UTC).

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

Repeated the test of 22 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

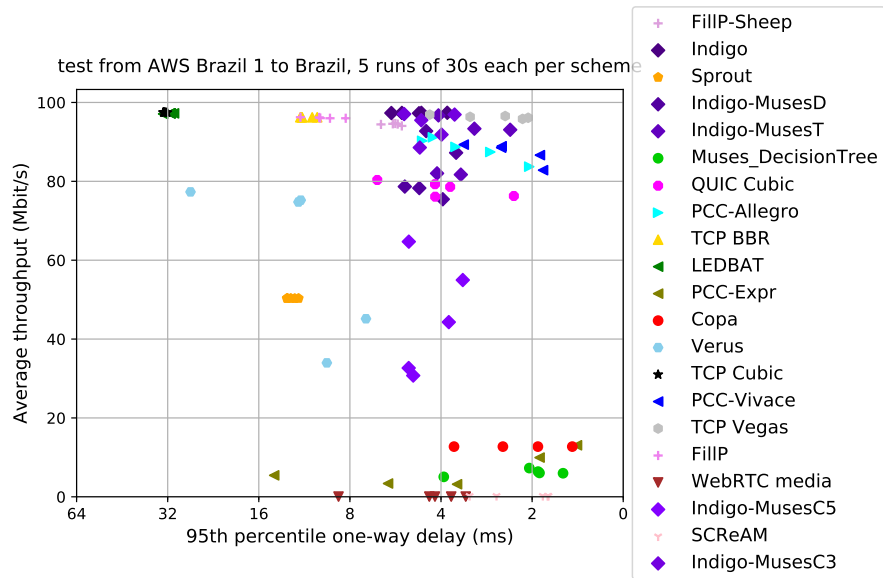
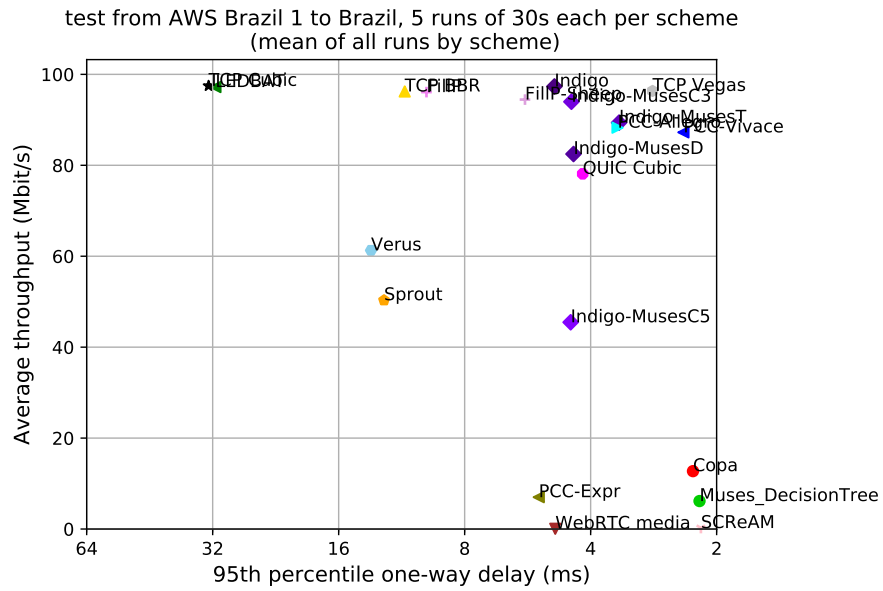
### System info:

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

### Git summary:

```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 11c9498ecb1596b02ccd896791a02d03172af7ed
M helpers/__init__.pyc
M helpers/context.pyc
M helpers/utils.pyc
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
```

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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.24	11.12	0.01
Copa	4	12.73	2.28	65.95
TCP Cubic	5	97.47	32.73	0.01
FillP	5	96.09	9.87	0.29
FillP-Sheep	5	94.45	5.74	0.08
Indigo	5	97.34	4.88	0.00
Indigo-MusesC3	5	93.98	4.45	0.00
Indigo-MusesC5	5	45.48	4.47	0.00
Indigo-MusesD	5	82.48	4.40	0.00
Indigo-MusesT	5	89.37	3.42	0.00
LEDBAT	5	97.21	31.53	0.01
Muses_DecisionTree	5	6.15	2.20	0.00
PCC-Allegro	5	88.27	3.45	0.00
PCC-Expr	5	7.00	5.32	22.74
QUIC Cubic	5	78.12	4.18	0.29
SCReAM	5	0.22	2.18	0.00
Sprout	5	50.33	12.47	0.01
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	96.36	2.85	0.00
Verus	5	61.28	13.39	1.25
PCC-Vivace	5	87.24	2.40	0.00
WebRTC media	5	0.05	4.86	0.00

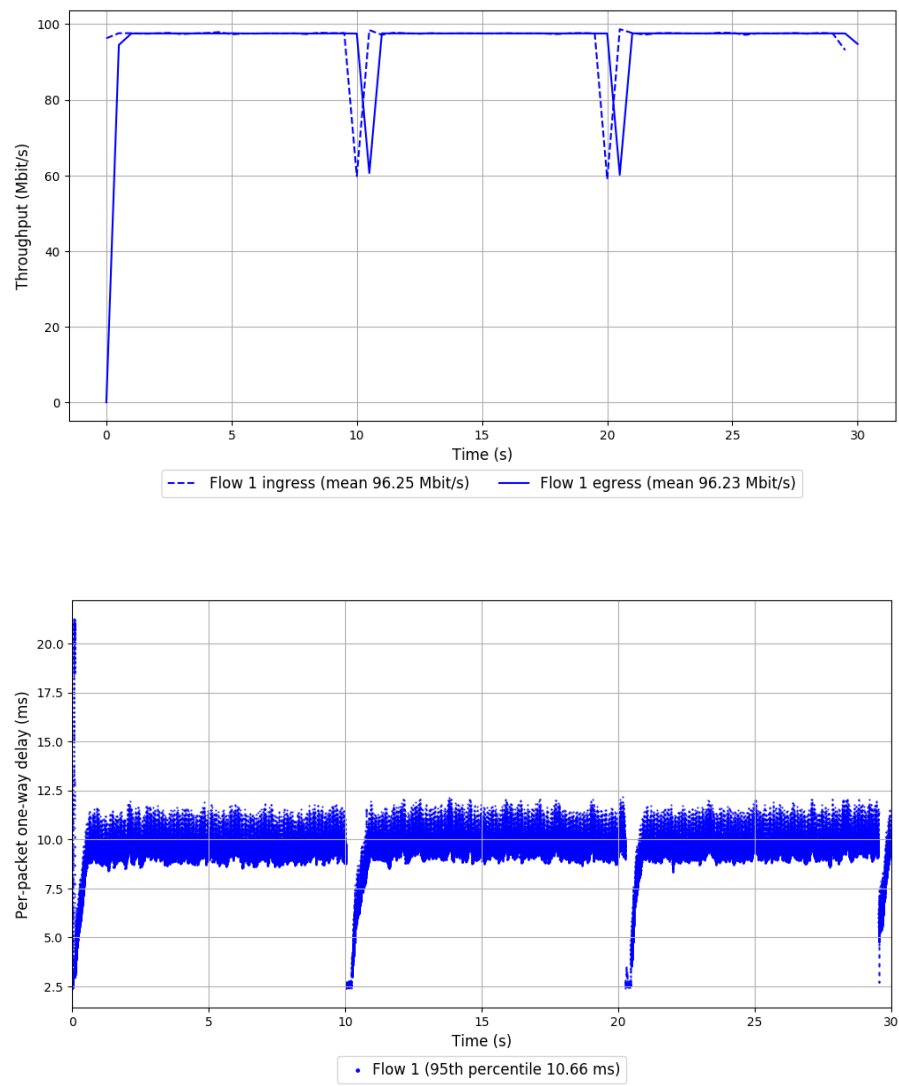


Run 1: Statistics of TCP BBR

Start at: 2019-06-27 19:19:16  
End at: 2019-06-27 19:19:46  
Local clock offset: -5.354 ms  
Remote clock offset: -0.406 ms

# Below is generated by plot.py at 2019-06-27 21:10:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.23 Mbit/s  
95th percentile per-packet one-way delay: 10.658 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.23 Mbit/s  
95th percentile per-packet one-way delay: 10.658 ms  
Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-06-27 19:43:49

End at: 2019-06-27 19:44:19

Local clock offset: -5.889 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-06-27 21:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 11.667 ms

Loss rate: 0.01%

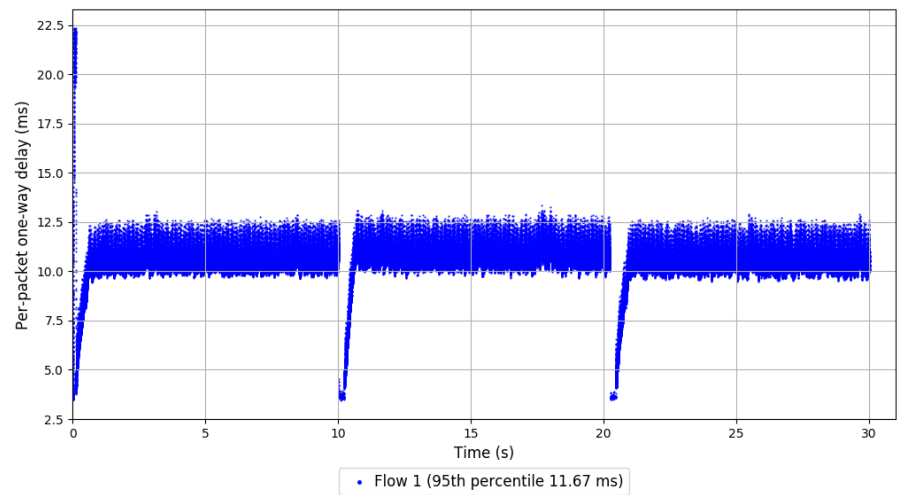
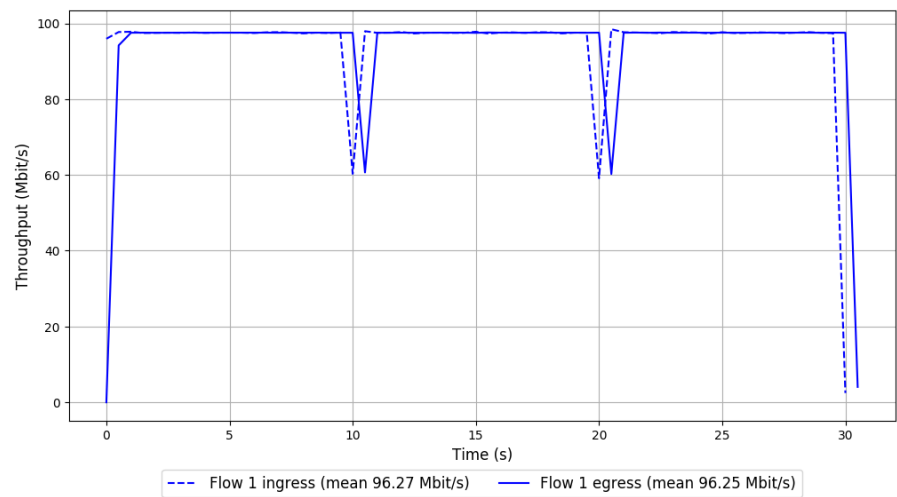
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 11.667 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-06-27 20:08:20

End at: 2019-06-27 20:08:50

Local clock offset: -4.752 ms

Remote clock offset: 0.309 ms

# Below is generated by plot.py at 2019-06-27 21:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 10.260 ms

Loss rate: 0.01%

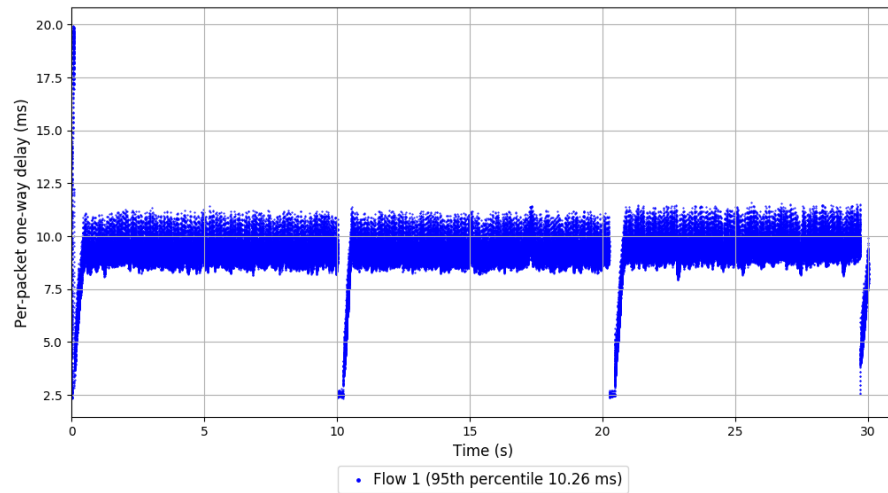
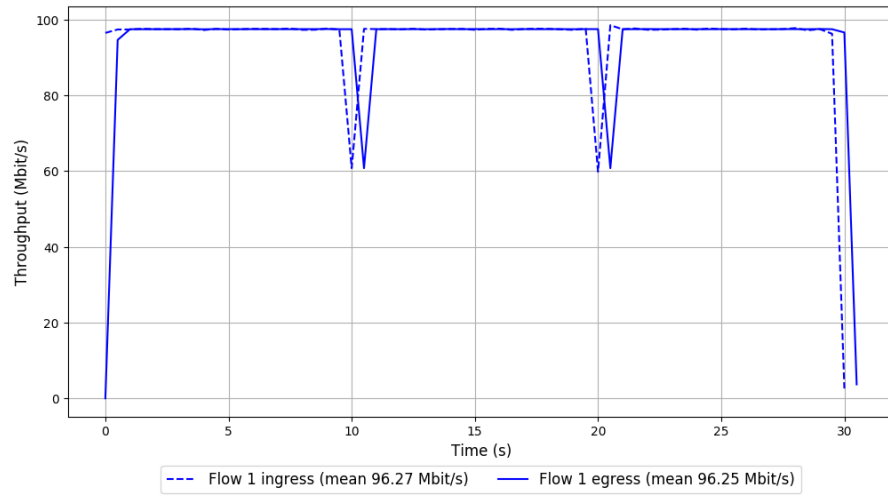
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 10.260 ms

Loss rate: 0.01%

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



Run 4: Statistics of TCP BBR

Start at: 2019-06-27 20:32:51

End at: 2019-06-27 20:33:21

Local clock offset: -6.491 ms

Remote clock offset: 0.335 ms

# Below is generated by plot.py at 2019-06-27 21:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 11.525 ms

Loss rate: 0.00%

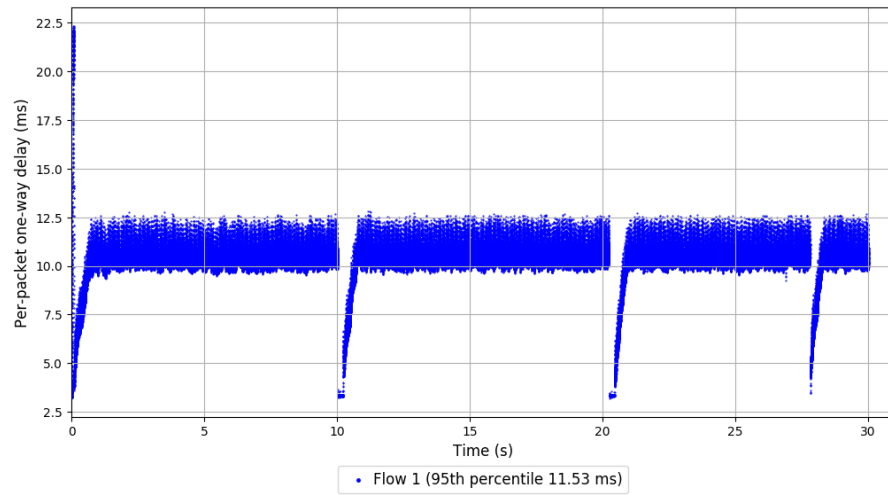
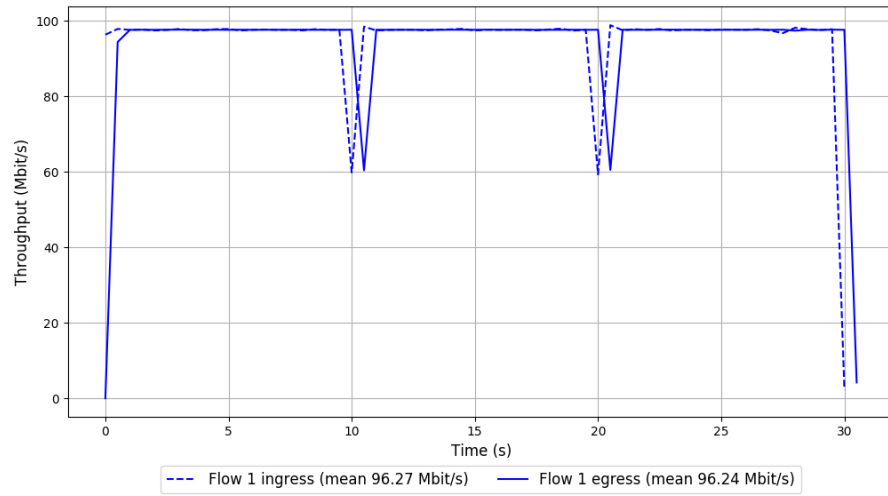
-- Flow 1:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 11.525 ms

Loss rate: 0.00%

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





Run 5: Statistics of TCP BBR

Start at: 2019-06-27 20:57:24

End at: 2019-06-27 20:57:54

Local clock offset: -6.152 ms

Remote clock offset: 0.579 ms

# Below is generated by plot.py at 2019-06-27 21:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 11.515 ms

Loss rate: 0.01%

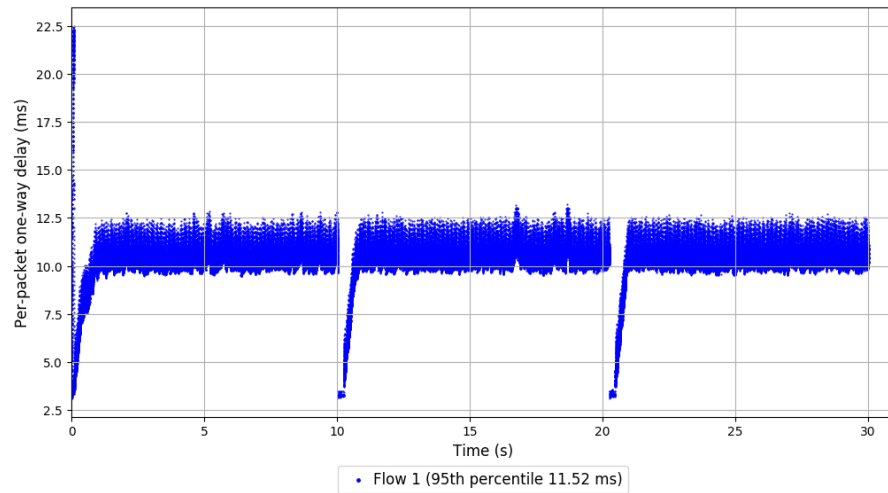
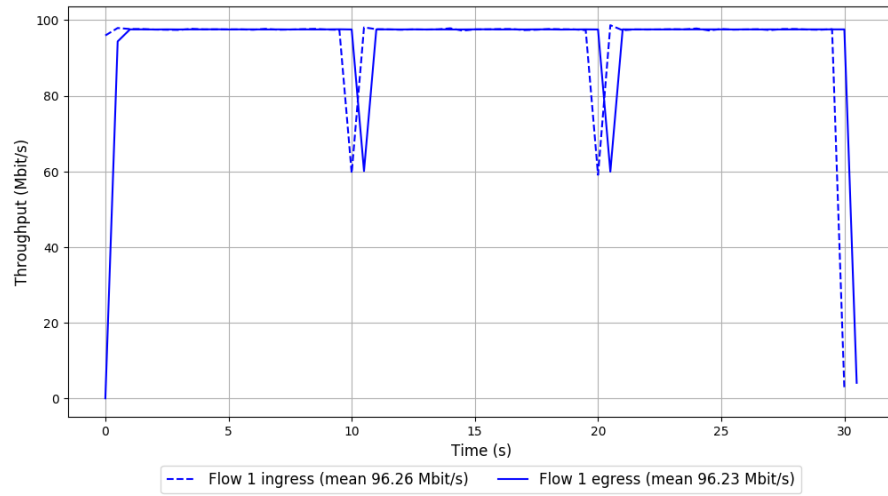
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 11.515 ms

Loss rate: 0.01%

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



Run 1: Statistics of Copa

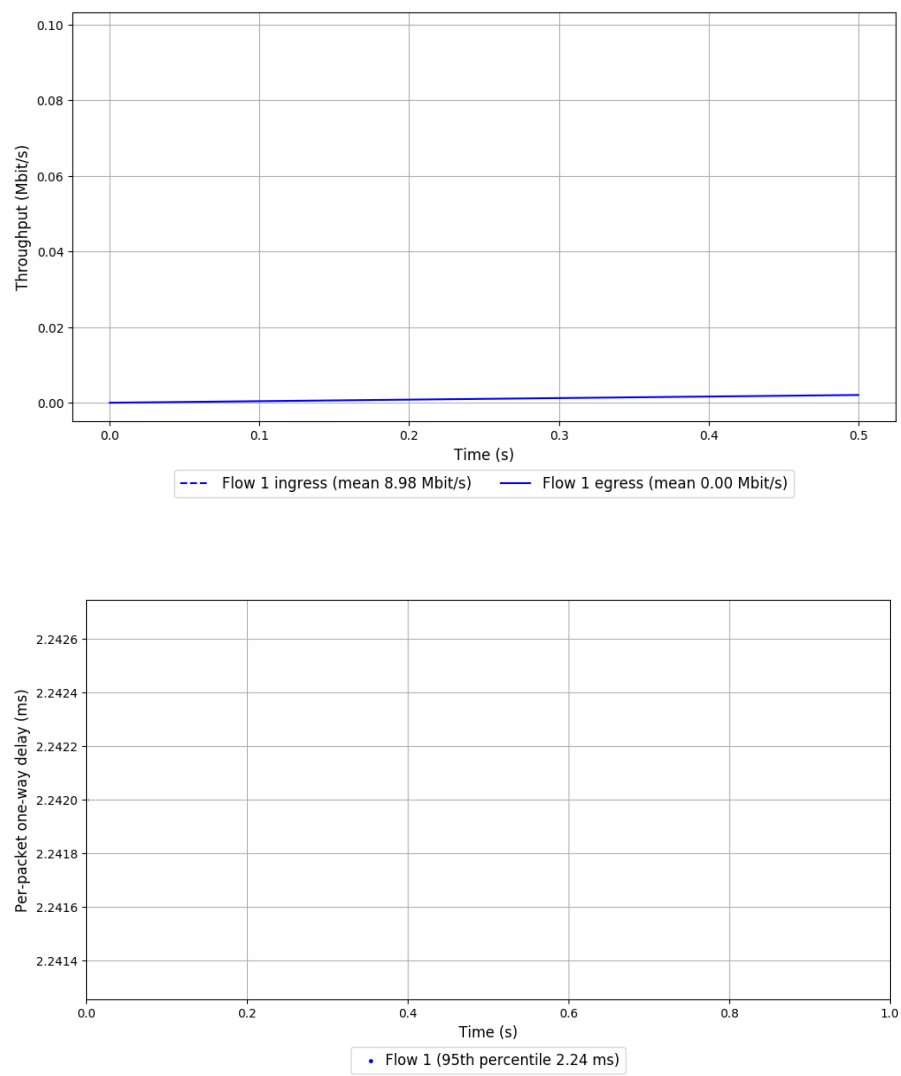
Start at: 2019-06-27 19:08:05

End at: 2019-06-27 19:08:35

Local clock offset: -5.589 ms

Remote clock offset: -0.764 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-06-27 19:32:38

End at: 2019-06-27 19:33:08

Local clock offset: -6.0 ms

Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2019-06-27 21:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.623 ms

Loss rate: 64.21%

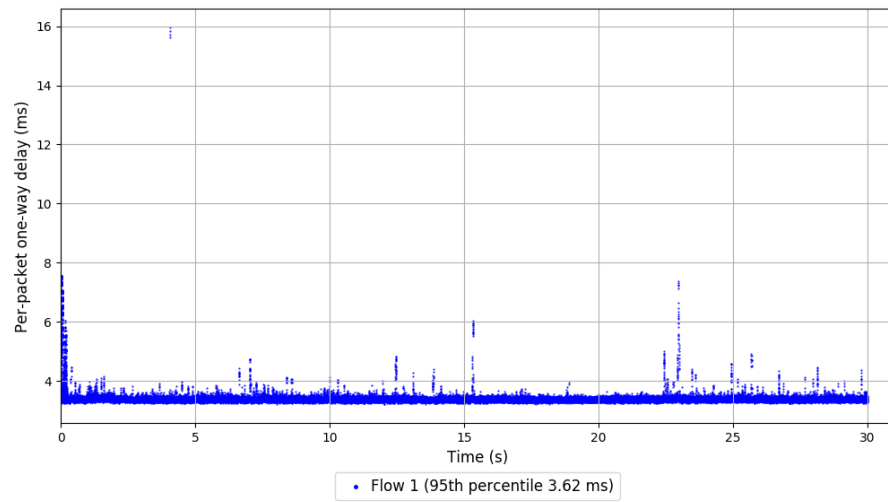
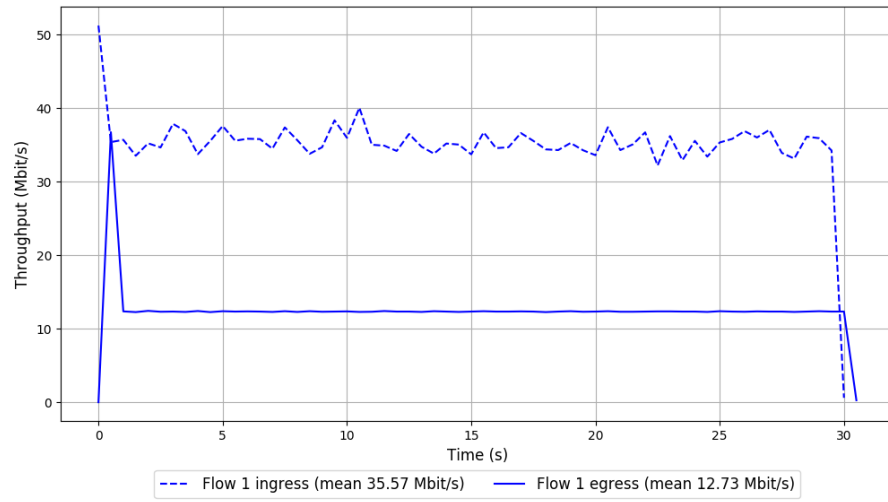
-- Flow 1:

Average throughput: 12.73 Mbit/s

95th percentile per-packet one-way delay: 3.623 ms

Loss rate: 64.21%

## Run 2: Report of Copa — Data Link

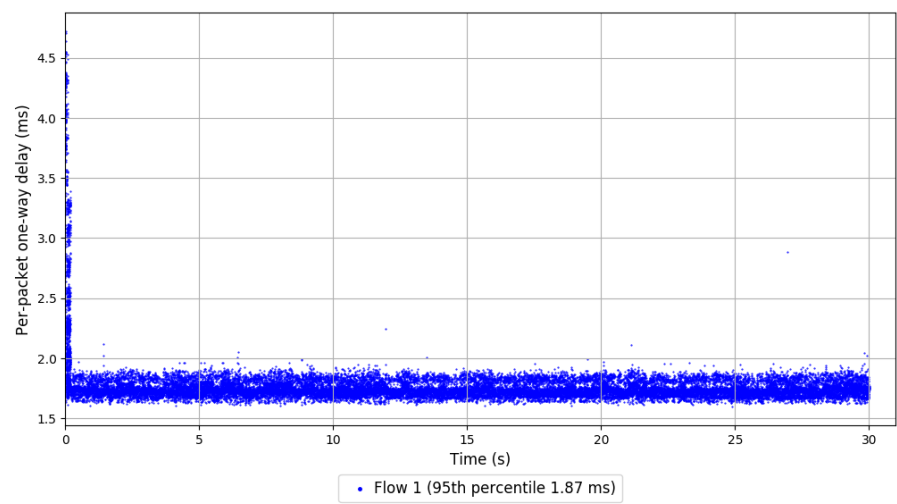
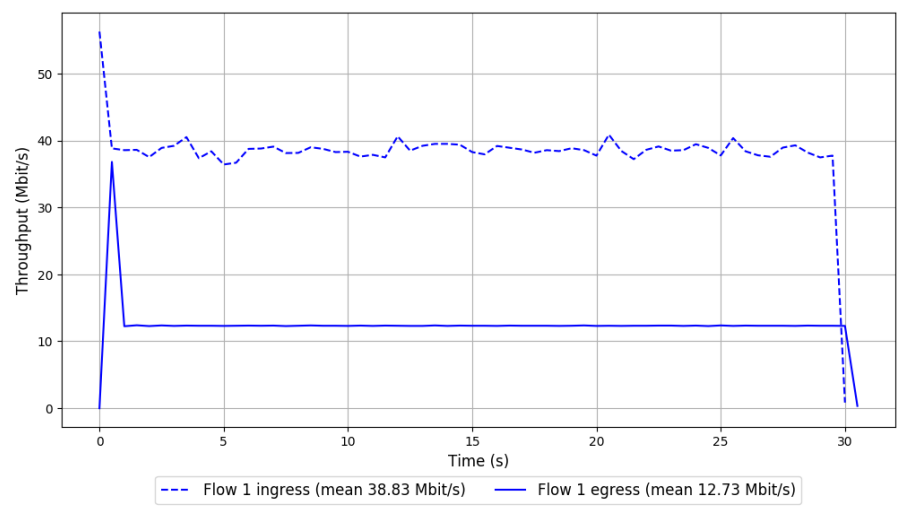


Run 3: Statistics of Copa

Start at: 2019-06-27 19:57:08  
End at: 2019-06-27 19:57:38  
Local clock offset: -5.666 ms  
Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2019-06-27 21:10:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 1.873 ms  
Loss rate: 67.22%  
-- Flow 1:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 1.873 ms  
Loss rate: 67.22%

Run 3: Report of Copa — Data Link



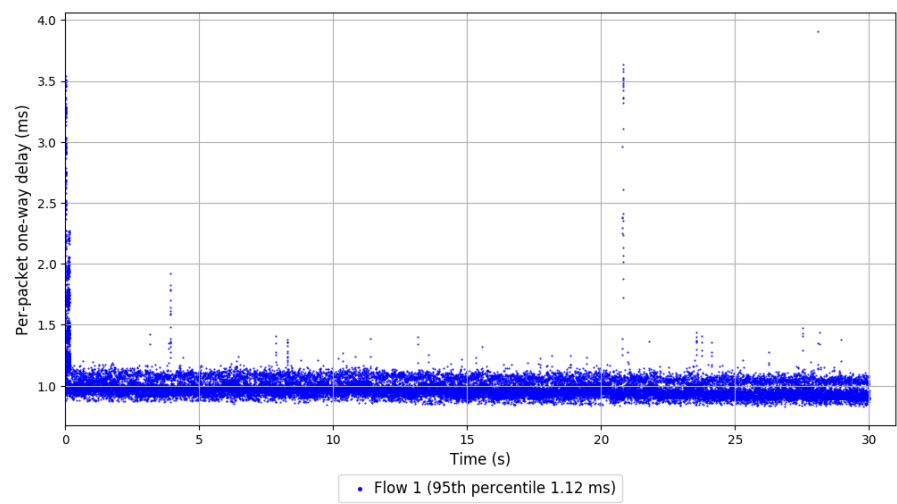
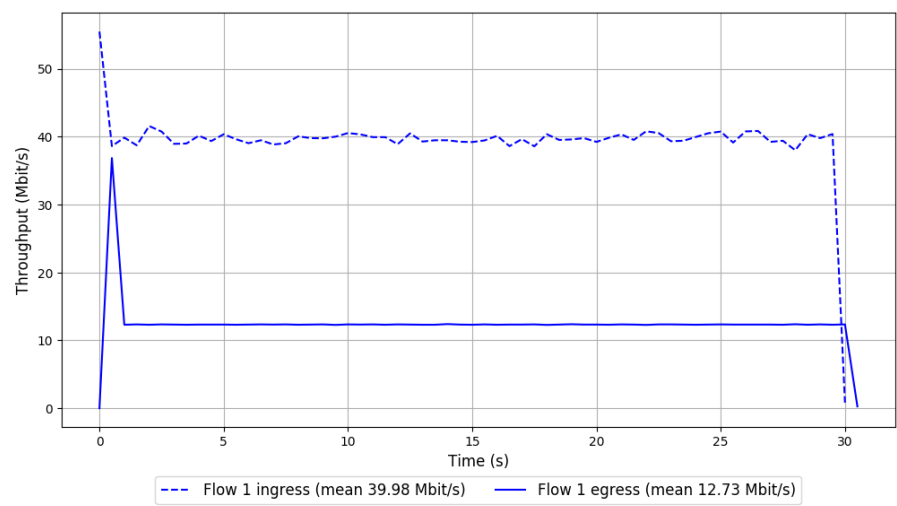


Run 4: Statistics of Copa

Start at: 2019-06-27 20:21:40  
End at: 2019-06-27 20:22:10  
Local clock offset: -5.207 ms  
Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2019-06-27 21:10:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 1.118 ms  
Loss rate: 68.15%  
-- Flow 1:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 1.118 ms  
Loss rate: 68.15%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-06-27 20:46:13

End at: 2019-06-27 20:46:43

Local clock offset: -5.662 ms

Remote clock offset: 0.488 ms

# Below is generated by plot.py at 2019-06-27 21:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.73 Mbit/s

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

Loss rate: 64.20%

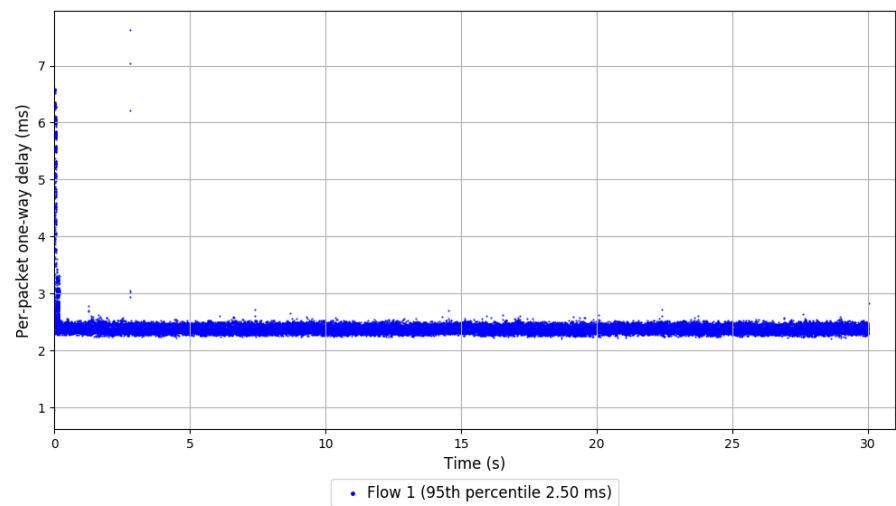
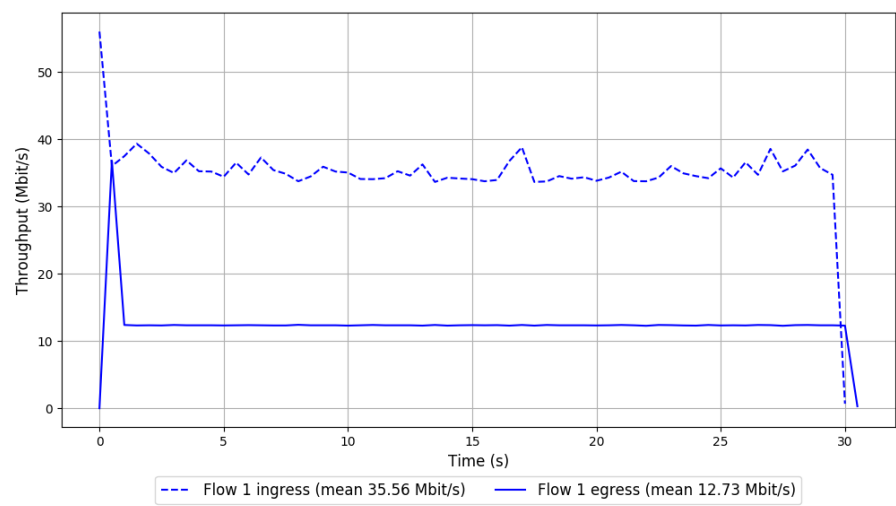
-- Flow 1:

Average throughput: 12.73 Mbit/s

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

Loss rate: 64.20%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-06-27 19:09:09

End at: 2019-06-27 19:09:39

Local clock offset: -5.497 ms

Remote clock offset: -0.63 ms

# Below is generated by plot.py at 2019-06-27 21:10:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.638 ms

Loss rate: 0.01%

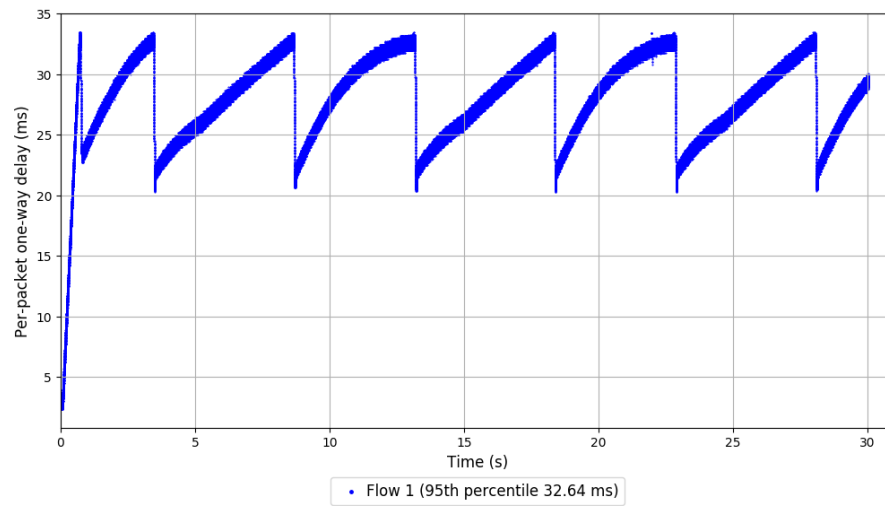
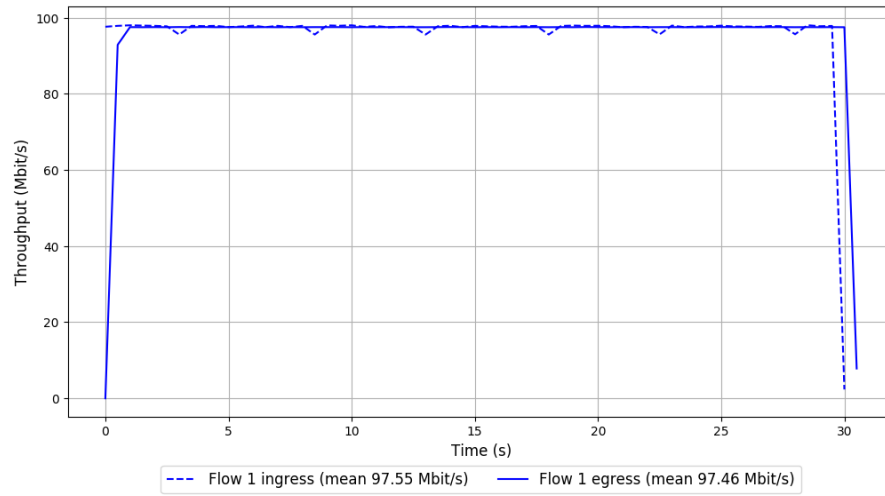
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.638 ms

Loss rate: 0.01%

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

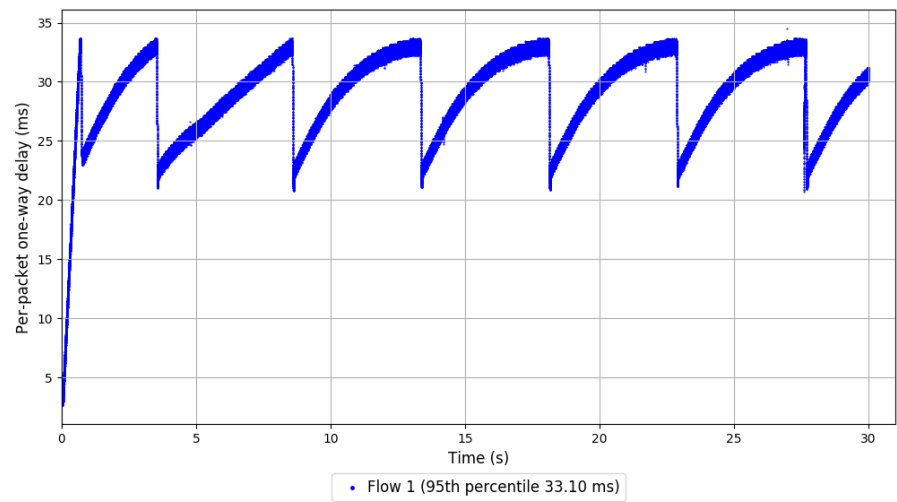
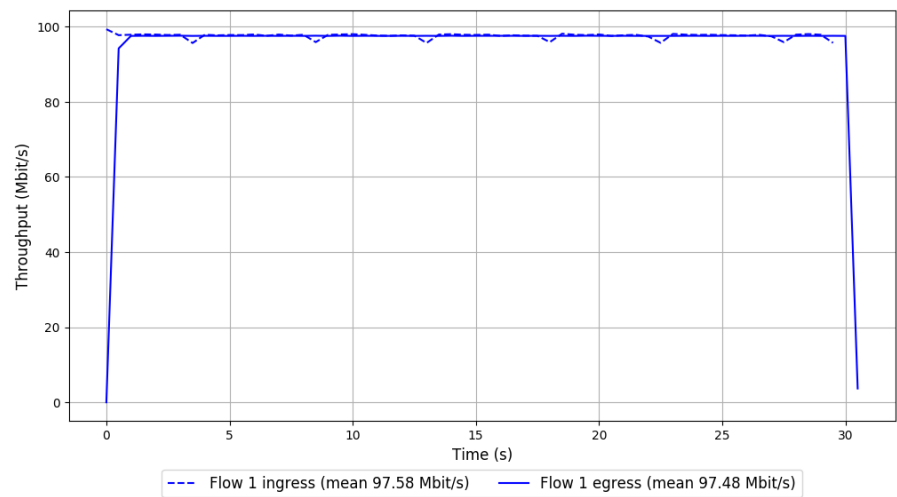


Run 2: Statistics of TCP Cubic

Start at: 2019-06-27 19:33:43  
End at: 2019-06-27 19:34:13  
Local clock offset: -5.192 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2019-06-27 21:10:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 33.104 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 33.104 ms  
Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-06-27 19:58:13

End at: 2019-06-27 19:58:43

Local clock offset: -4.801 ms

Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2019-06-27 21:11:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.754 ms

Loss rate: 0.01%

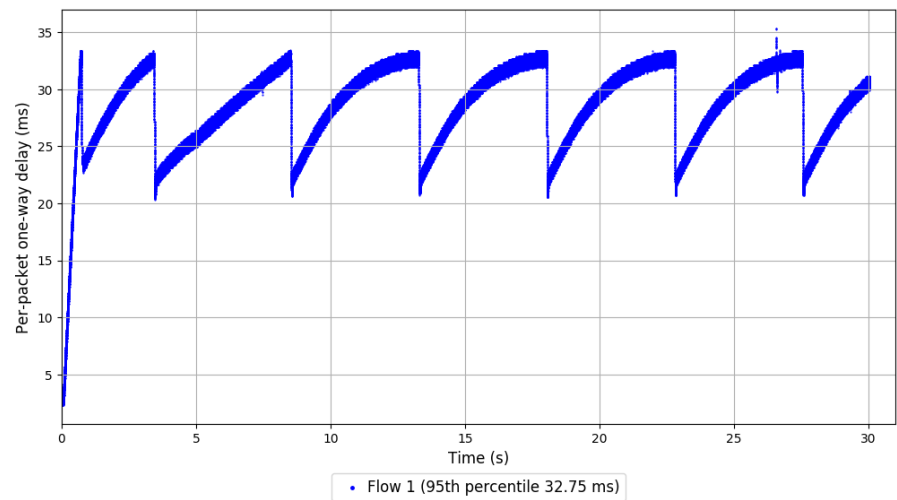
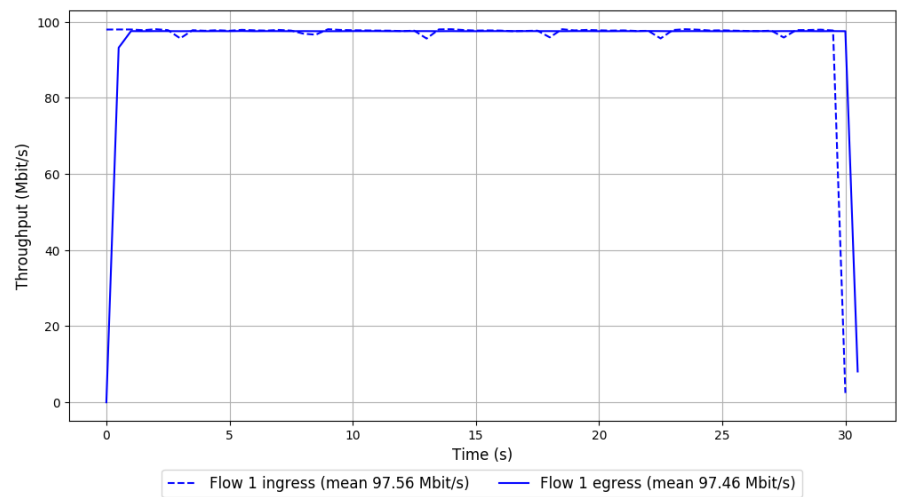
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.754 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-06-27 20:22:45

End at: 2019-06-27 20:23:15

Local clock offset: -6.072 ms

Remote clock offset: 0.47 ms

# Below is generated by plot.py at 2019-06-27 21:11:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.144 ms

Loss rate: 0.01%

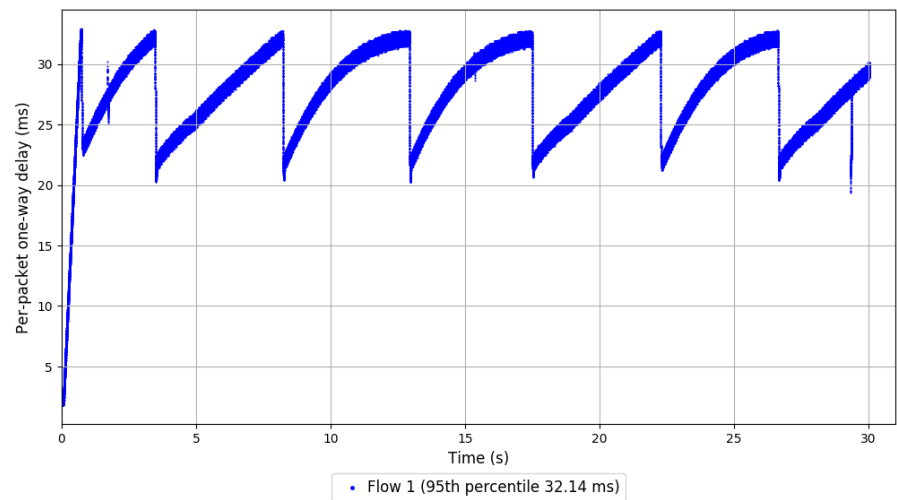
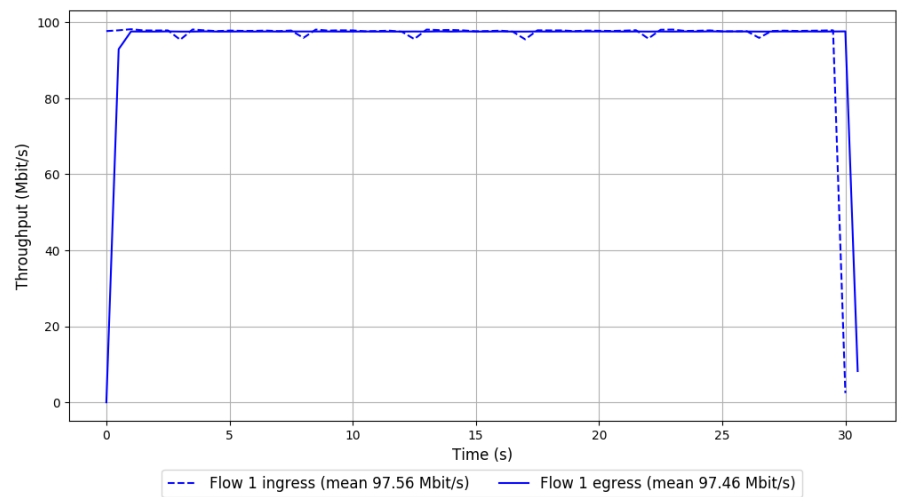
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 32.144 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-06-27 20:47:18

End at: 2019-06-27 20:47:48

Local clock offset: -5.97 ms

Remote clock offset: 0.45 ms

# Below is generated by plot.py at 2019-06-27 21:11:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 33.008 ms

Loss rate: 0.01%

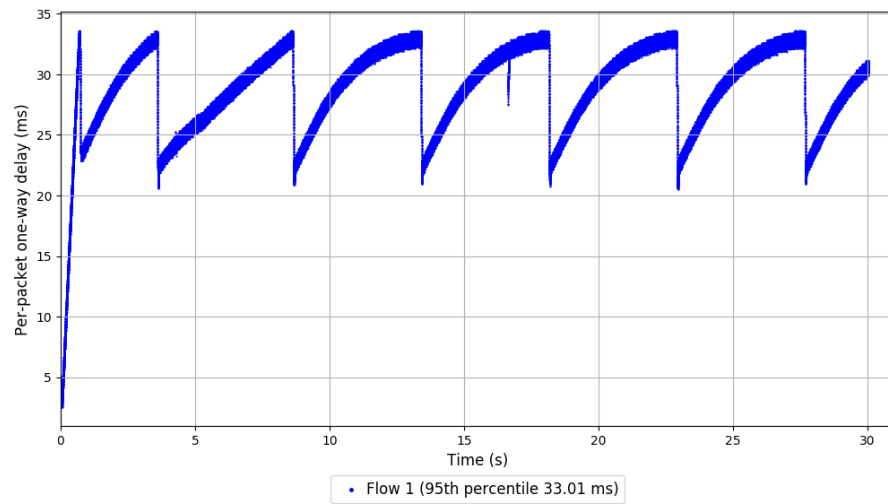
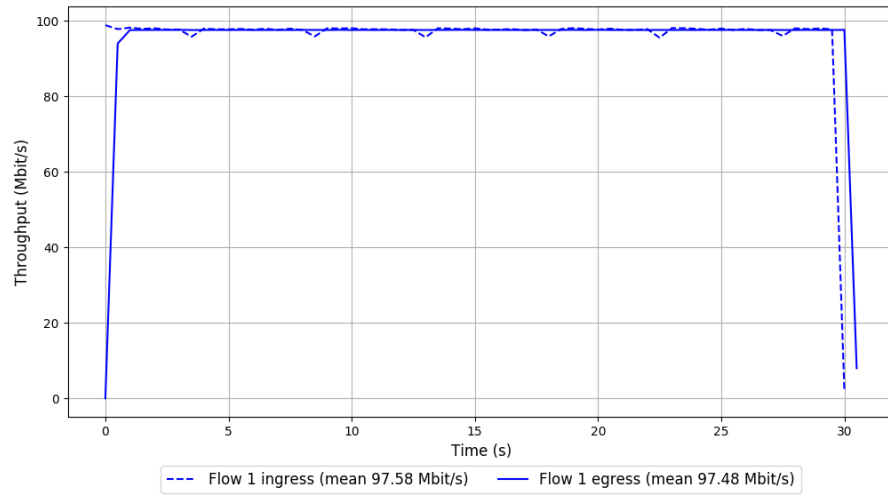
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 33.008 ms

Loss rate: 0.01%

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

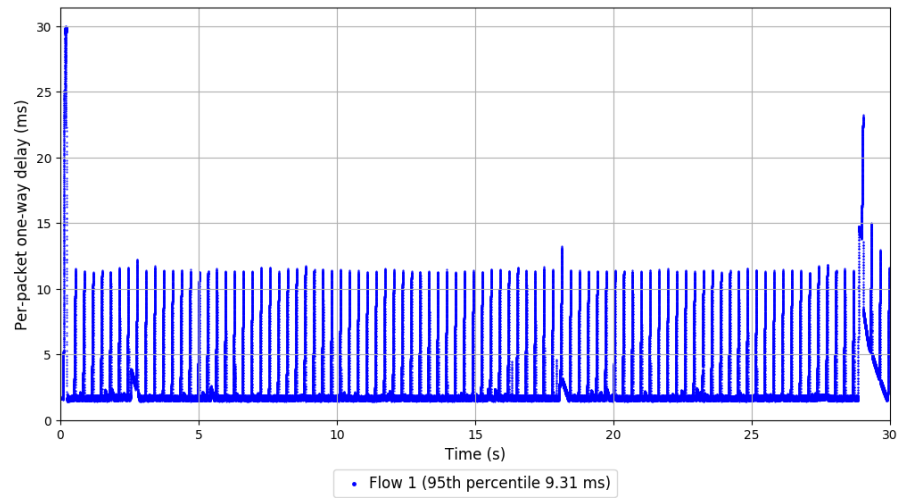
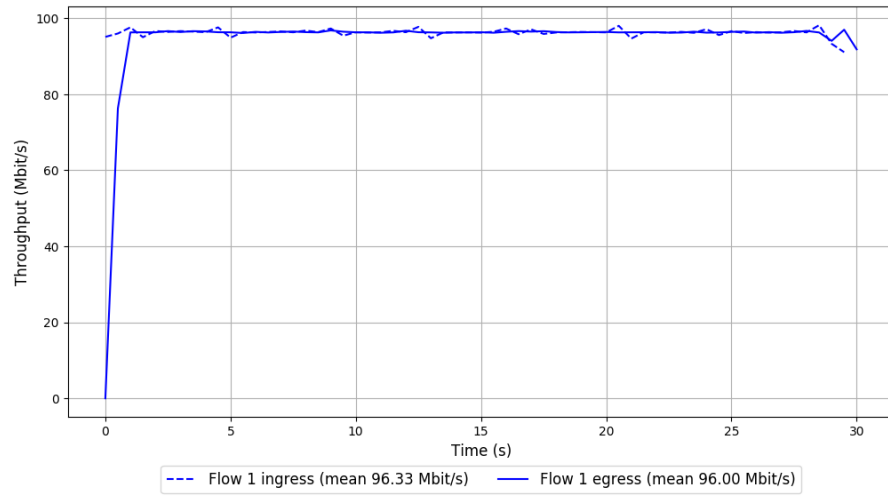


Run 1: Statistics of FillP

Start at: 2019-06-27 19:21:29  
End at: 2019-06-27 19:21:59  
Local clock offset: -6.059 ms  
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2019-06-27 21:12:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.00 Mbit/s  
95th percentile per-packet one-way delay: 9.310 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 96.00 Mbit/s  
95th percentile per-packet one-way delay: 9.310 ms  
Loss rate: 0.32%

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



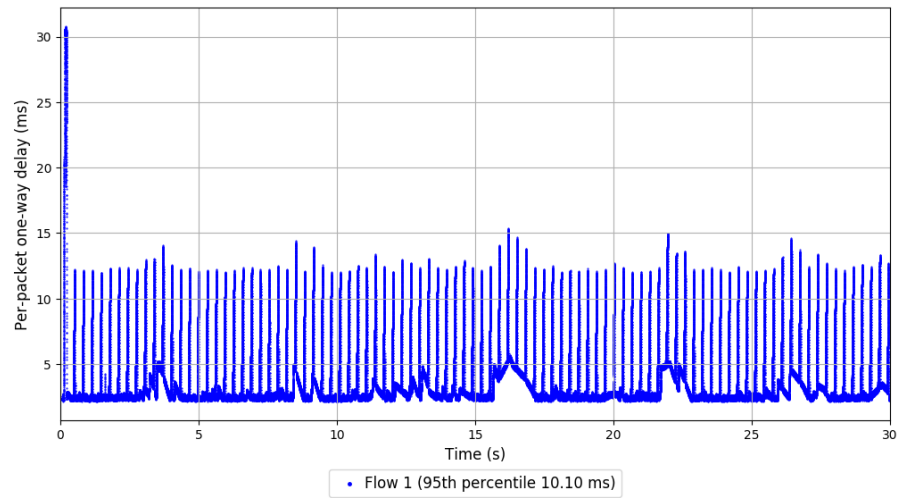
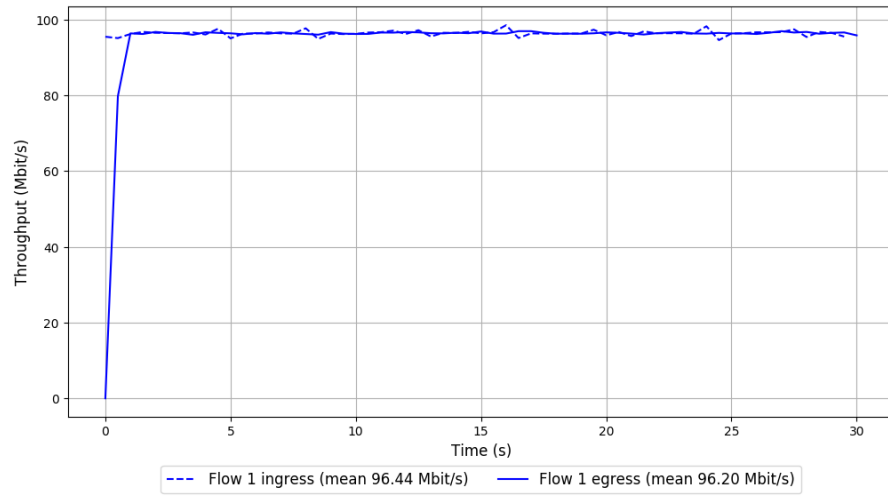


Run 2: Statistics of FillP

Start at: 2019-06-27 19:46:03  
End at: 2019-06-27 19:46:33  
Local clock offset: -4.766 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-06-27 21:12:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.20 Mbit/s  
95th percentile per-packet one-way delay: 10.104 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 96.20 Mbit/s  
95th percentile per-packet one-way delay: 10.104 ms  
Loss rate: 0.25%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-06-27 20:10:34

End at: 2019-06-27 20:11:04

Local clock offset: -4.758 ms

Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2019-06-27 21:12:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 8.259 ms

Loss rate: 0.33%

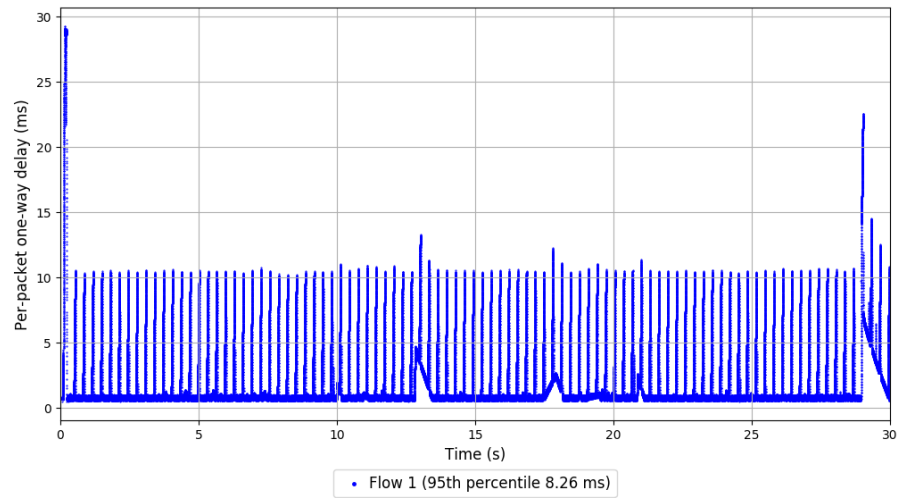
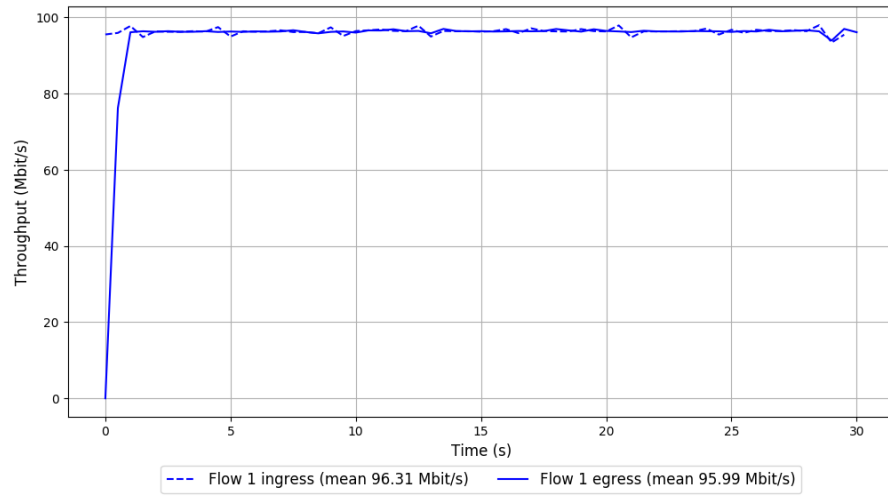
-- Flow 1:

Average throughput: 95.99 Mbit/s

95th percentile per-packet one-way delay: 8.259 ms

Loss rate: 0.33%

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



Run 4: Statistics of FillP

Start at: 2019-06-27 20:35:05

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

Local clock offset: -5.54 ms

Remote clock offset: 0.385 ms

# Below is generated by plot.py at 2019-06-27 21:12:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 11.654 ms

Loss rate: 0.24%

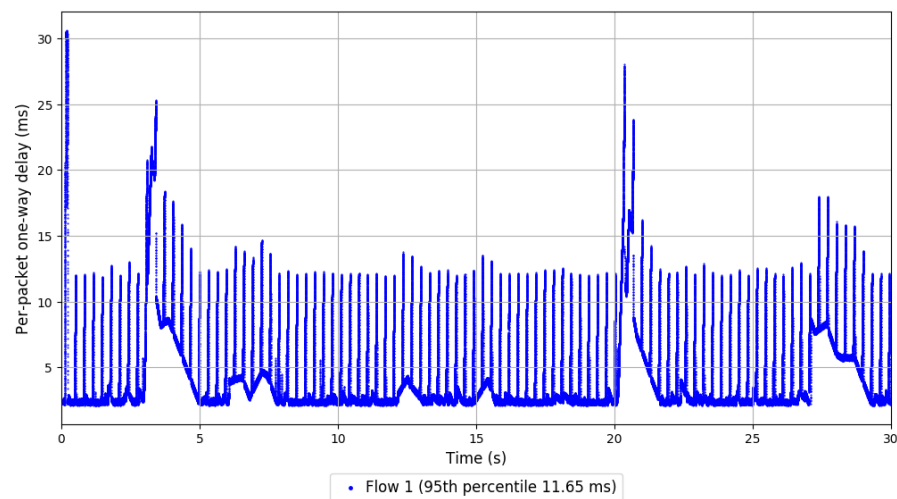
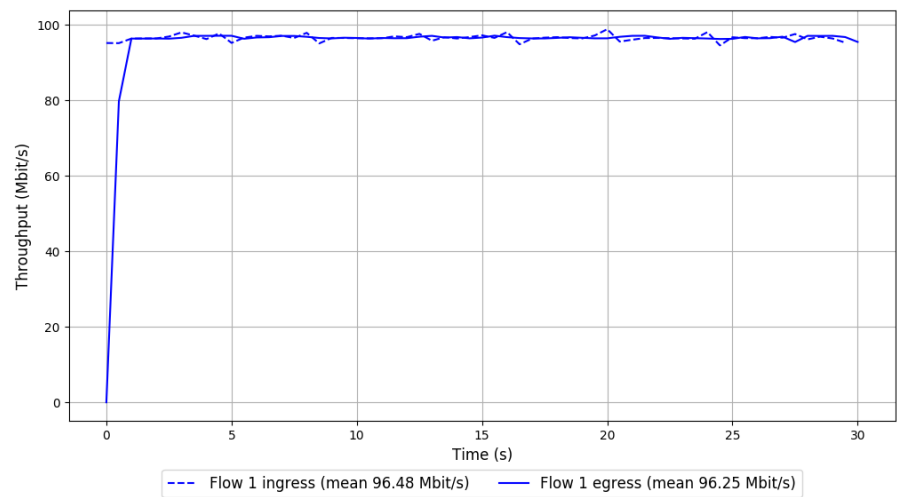
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 11.654 ms

Loss rate: 0.24%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-06-27 20:59:38

End at: 2019-06-27 21:00:08

Local clock offset: -6.425 ms

Remote clock offset: 0.502 ms

# Below is generated by plot.py at 2019-06-27 21:12:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 10.025 ms

Loss rate: 0.33%

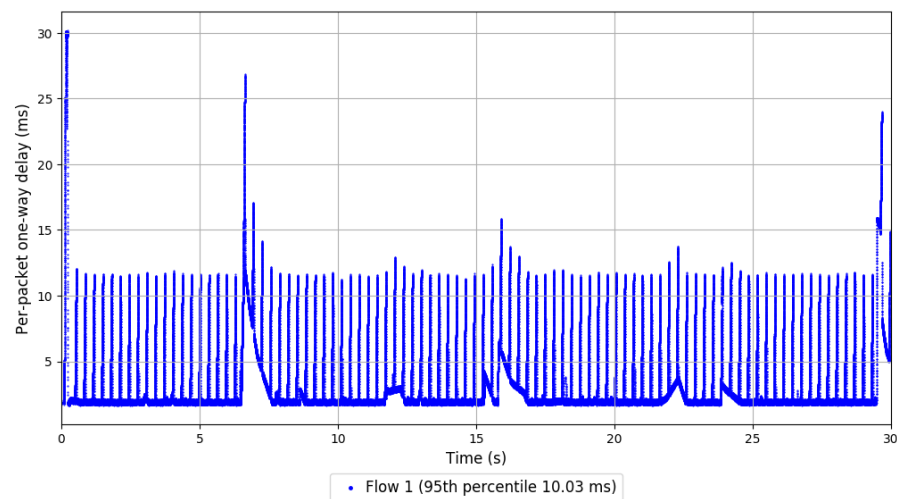
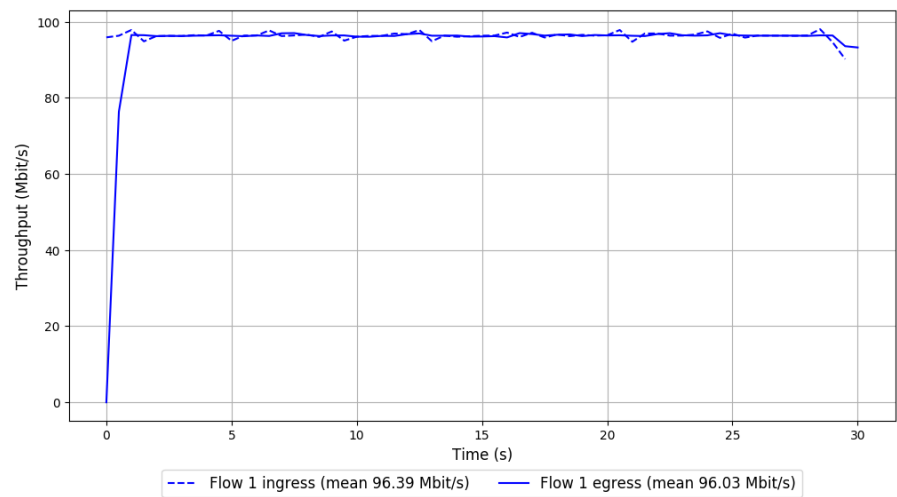
-- Flow 1:

Average throughput: 96.03 Mbit/s

95th percentile per-packet one-way delay: 10.025 ms

Loss rate: 0.33%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-06-27 19:12:32

End at: 2019-06-27 19:13:02

Local clock offset: -5.435 ms

Remote clock offset: -0.634 ms

# Below is generated by plot.py at 2019-06-27 21:12:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 6.316 ms

Loss rate: 0.09%

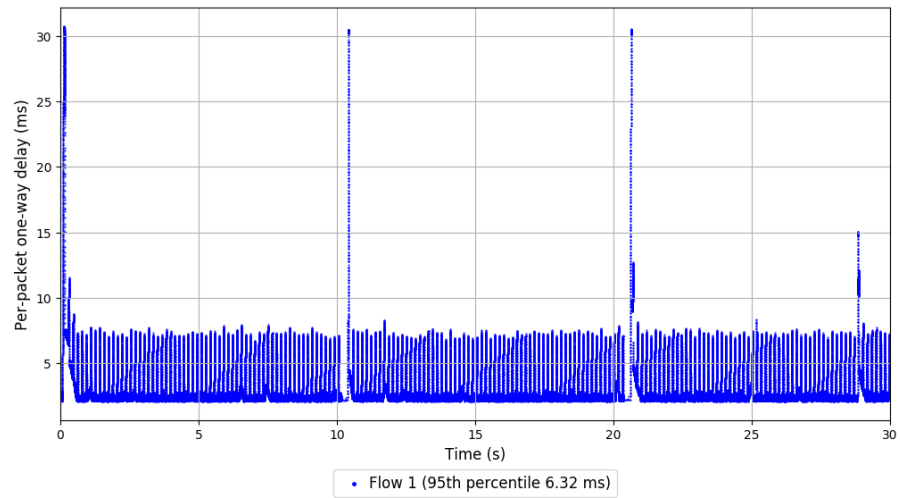
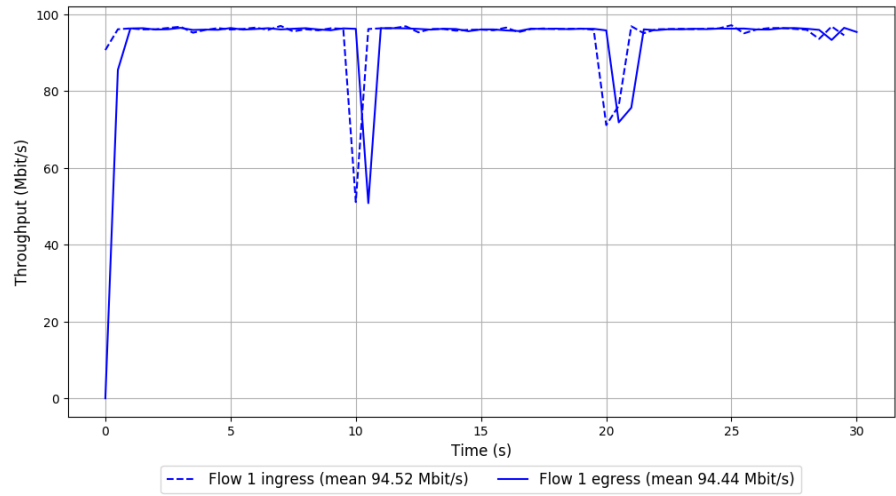
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 6.316 ms

Loss rate: 0.09%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-06-27 19:37:05

End at: 2019-06-27 19:37:35

Local clock offset: -5.686 ms

Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-06-27 21:13:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 5.390 ms

Loss rate: 0.07%

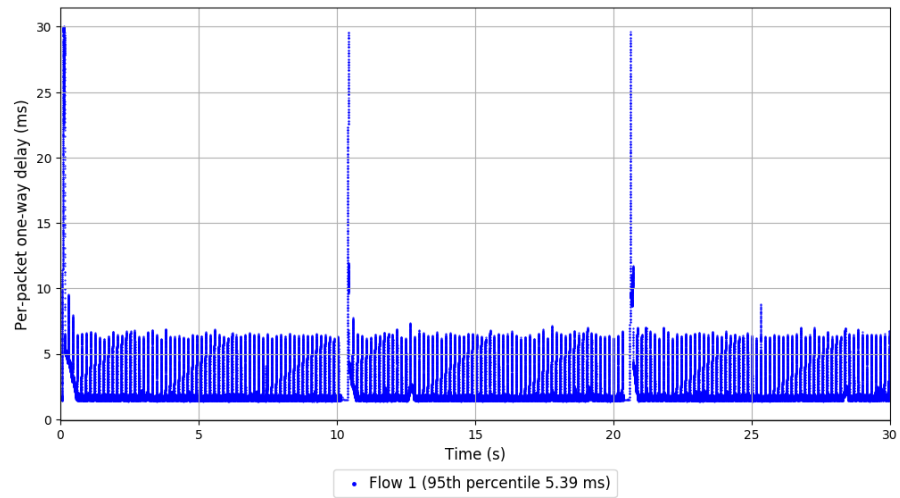
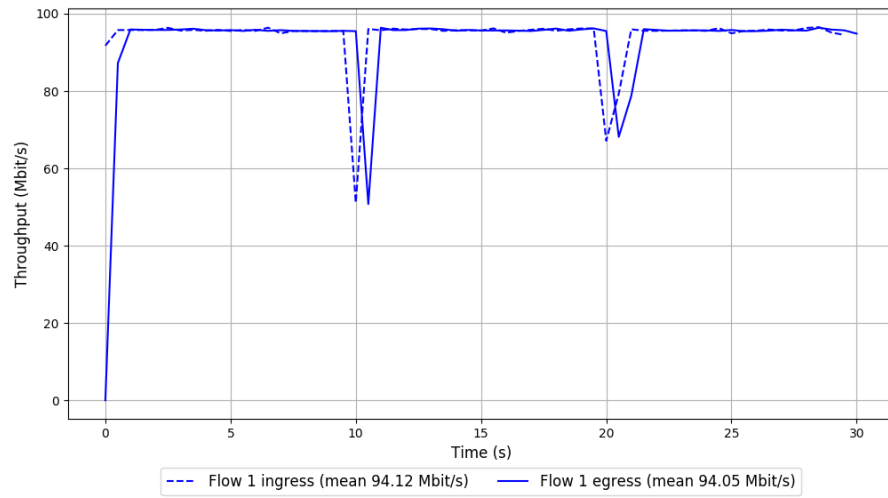
-- Flow 1:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 5.390 ms

Loss rate: 0.07%

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

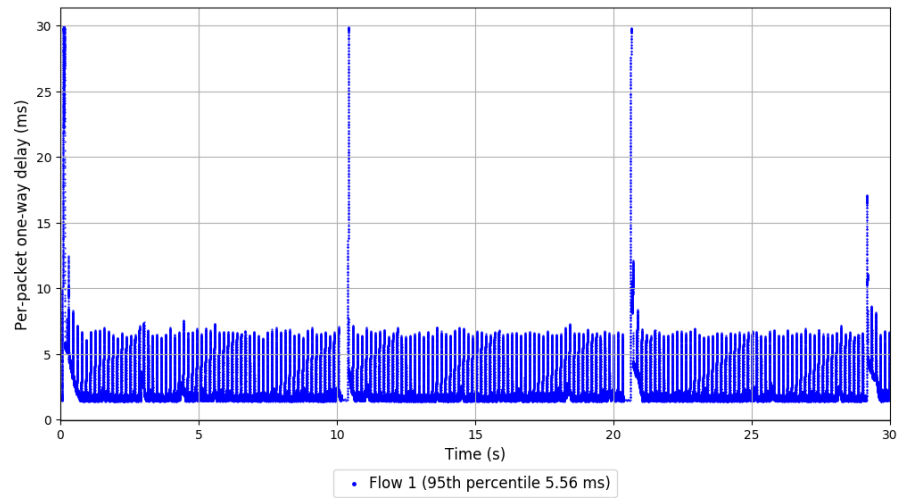
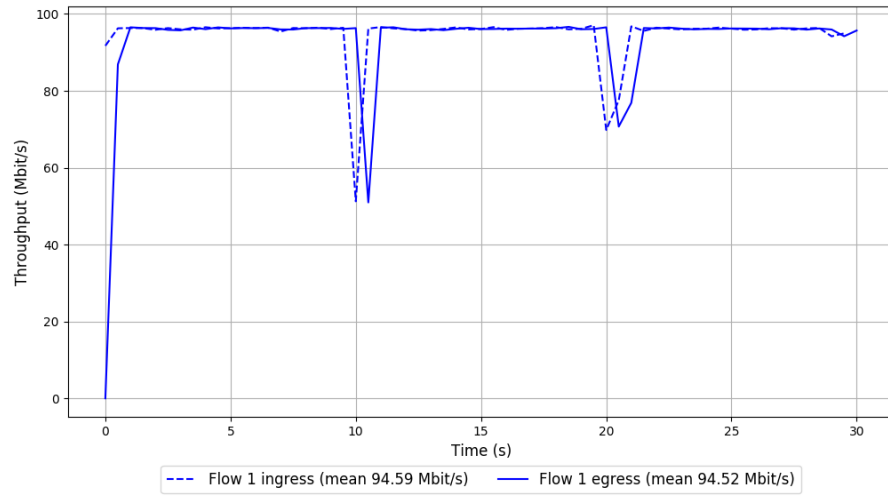


Run 3: Statistics of FillP-Sheep

Start at: 2019-06-27 20:01:36  
End at: 2019-06-27 20:02:06  
Local clock offset: -5.588 ms  
Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2019-06-27 21:13:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.52 Mbit/s  
95th percentile per-packet one-way delay: 5.561 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 94.52 Mbit/s  
95th percentile per-packet one-way delay: 5.561 ms  
Loss rate: 0.08%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-06-27 20:26:07

End at: 2019-06-27 20:26:37

Local clock offset: -5.321 ms

Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2019-06-27 21:13:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 5.664 ms

Loss rate: 0.08%

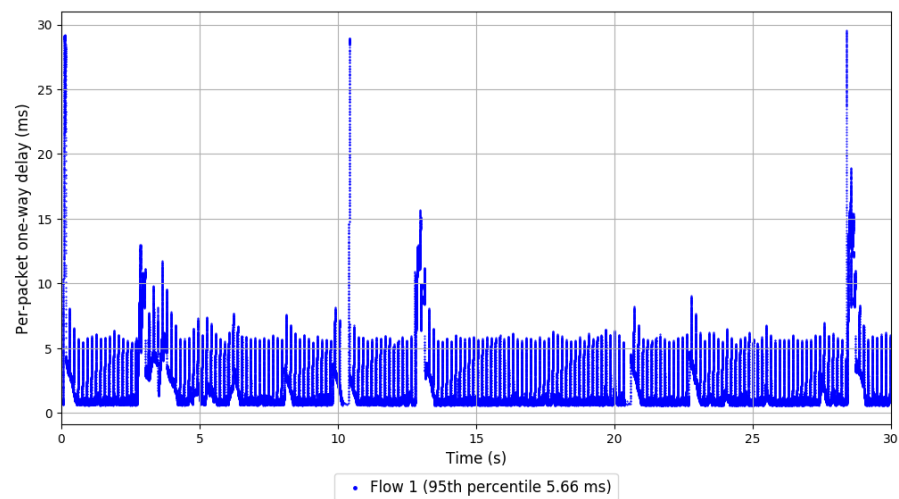
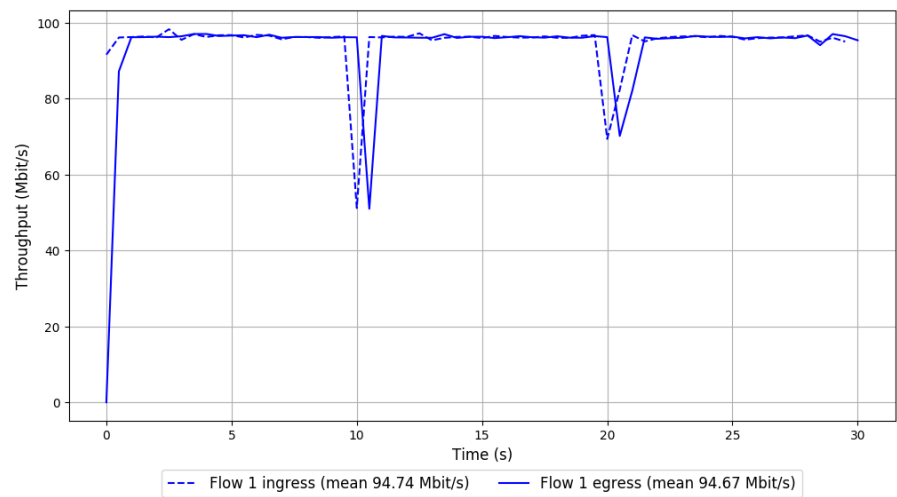
-- Flow 1:

Average throughput: 94.67 Mbit/s

95th percentile per-packet one-way delay: 5.664 ms

Loss rate: 0.08%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-06-27 20:50:40

End at: 2019-06-27 20:51:10

Local clock offset: -5.783 ms

Remote clock offset: 0.576 ms

# Below is generated by plot.py at 2019-06-27 21:13:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 5.771 ms

Loss rate: 0.07%

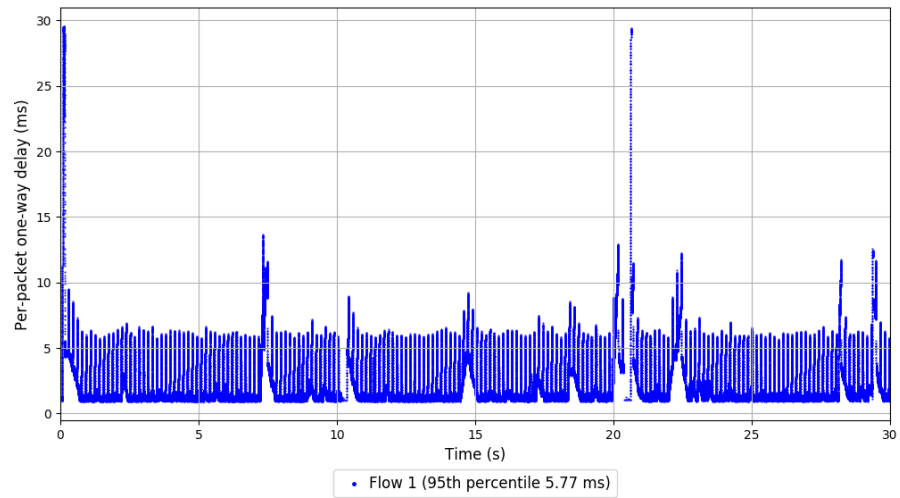
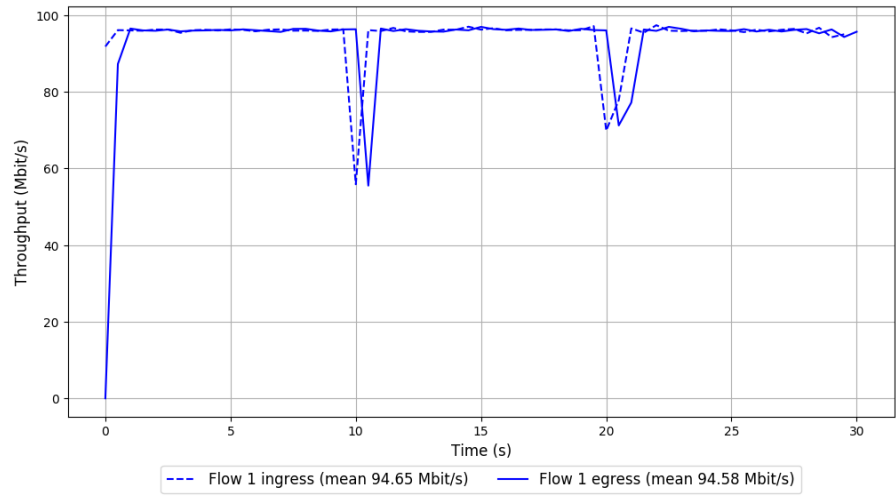
-- Flow 1:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 5.771 ms

Loss rate: 0.07%

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

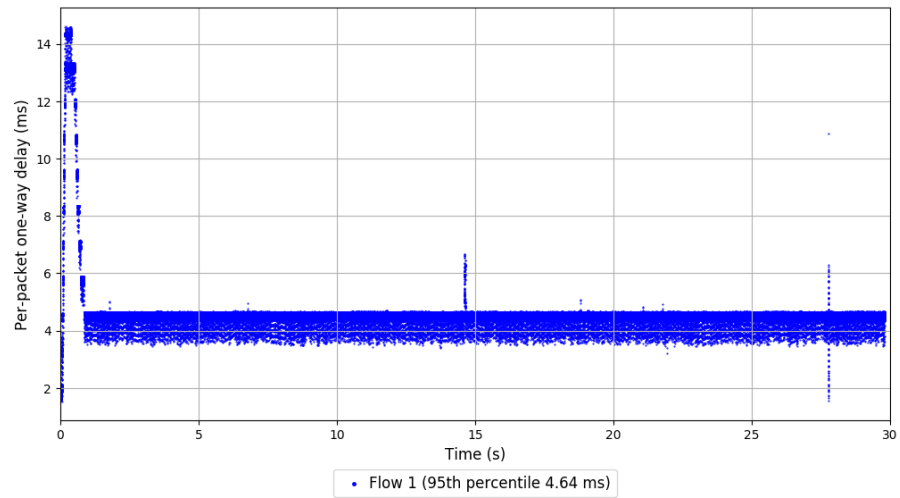
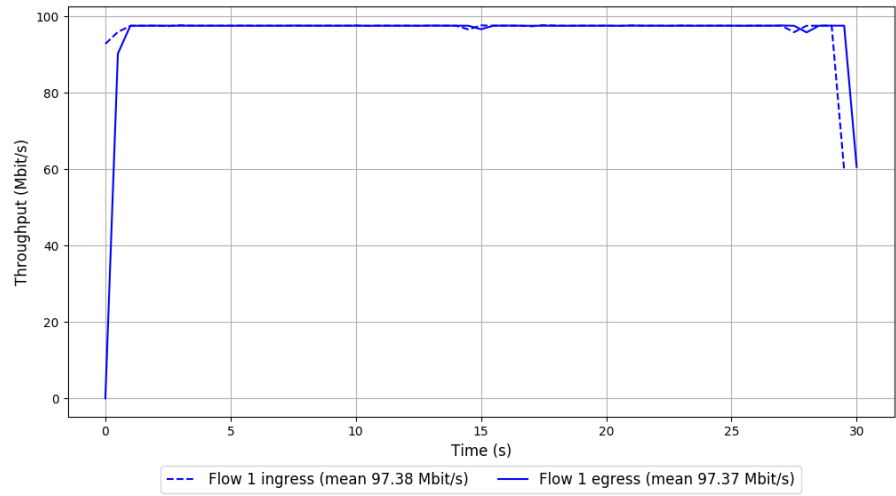


Run 1: Statistics of Indigo

Start at: 2019-06-27 19:13:39  
End at: 2019-06-27 19:14:09  
Local clock offset: -6.224 ms  
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2019-06-27 21:13:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.37 Mbit/s  
95th percentile per-packet one-way delay: 4.645 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.37 Mbit/s  
95th percentile per-packet one-way delay: 4.645 ms  
Loss rate: 0.00%

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

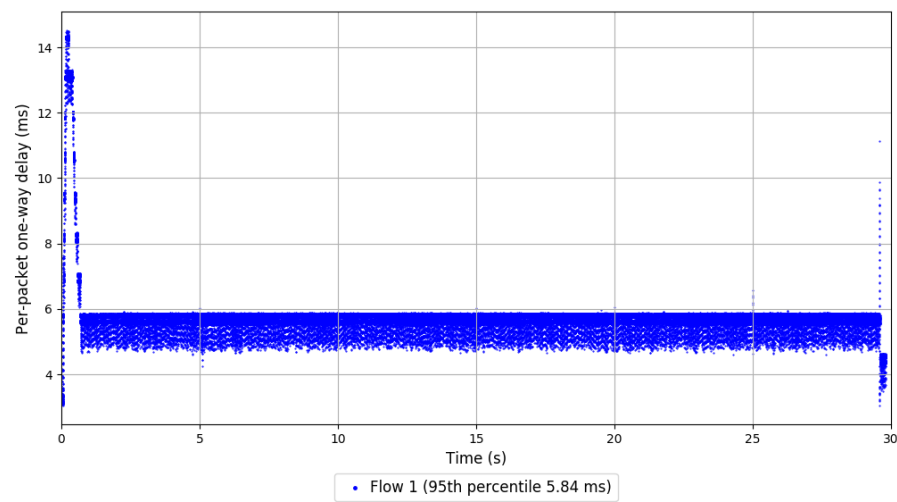
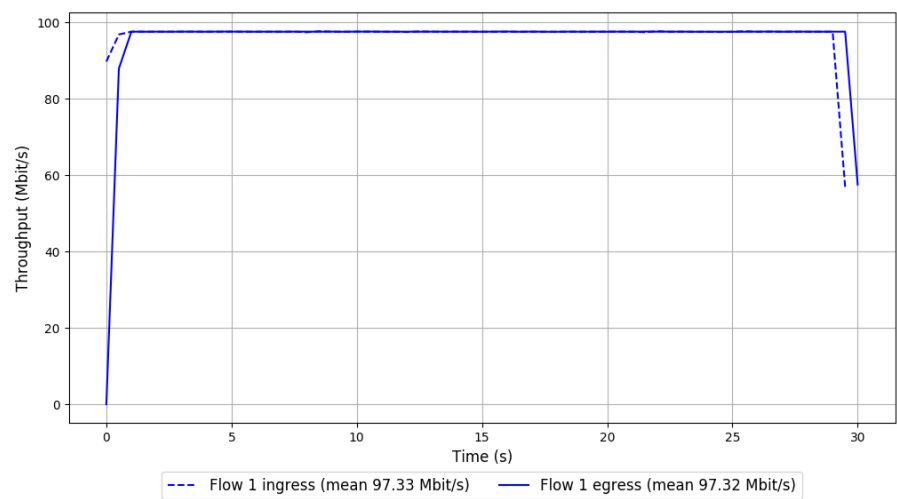


Run 2: Statistics of Indigo

Start at: 2019-06-27 19:38:12  
End at: 2019-06-27 19:38:42  
Local clock offset: -5.647 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-06-27 21:13:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.32 Mbit/s  
95th percentile per-packet one-way delay: 5.836 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.32 Mbit/s  
95th percentile per-packet one-way delay: 5.836 ms  
Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-06-27 20:02:43

End at: 2019-06-27 20:03:13

Local clock offset: -4.793 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-06-27 21:13:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 3.814 ms

Loss rate: 0.00%

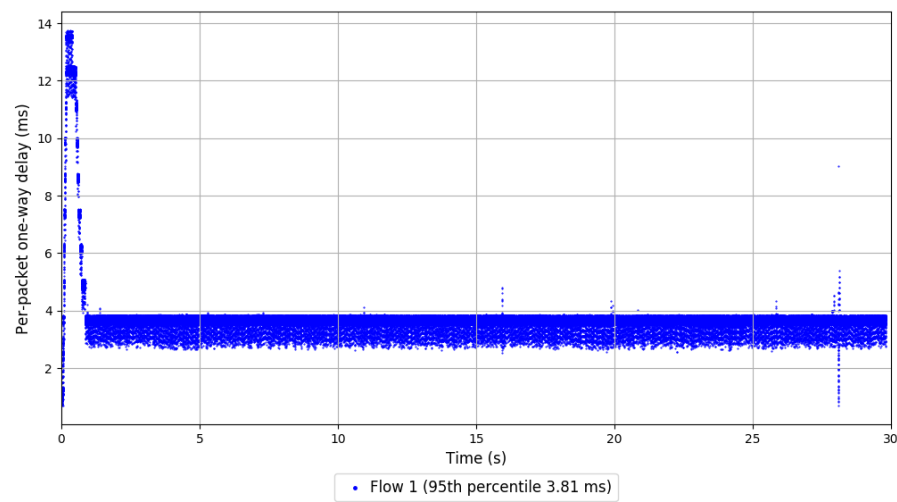
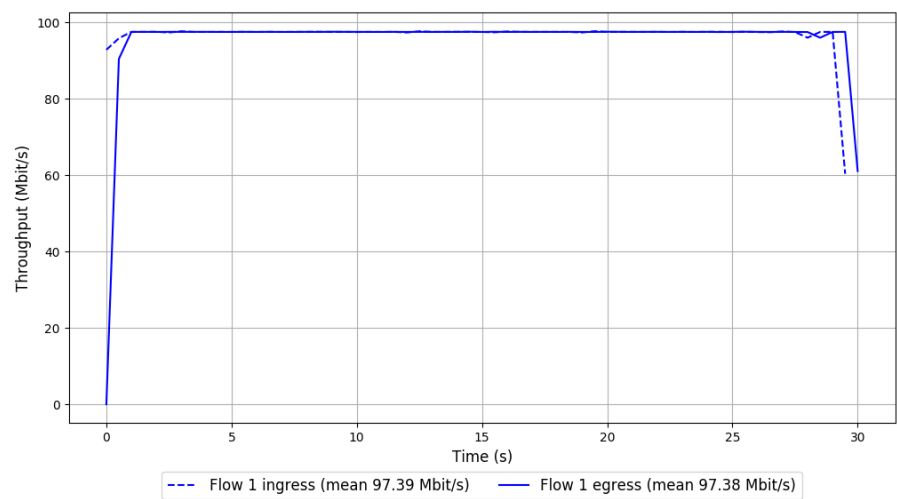
-- Flow 1:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 3.814 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

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

End at: 2019-06-27 20:27:44

Local clock offset: -6.098 ms

Remote clock offset: 0.38 ms

# Below is generated by plot.py at 2019-06-27 21:13:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 5.387 ms

Loss rate: 0.00%

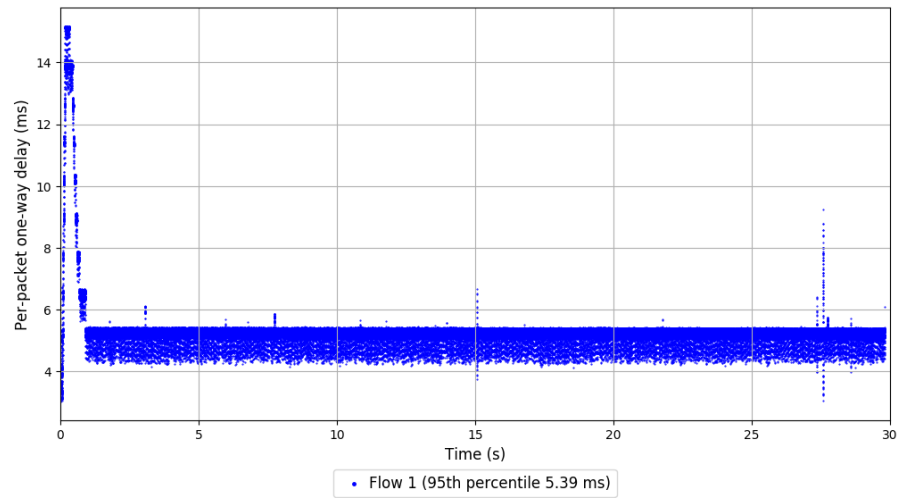
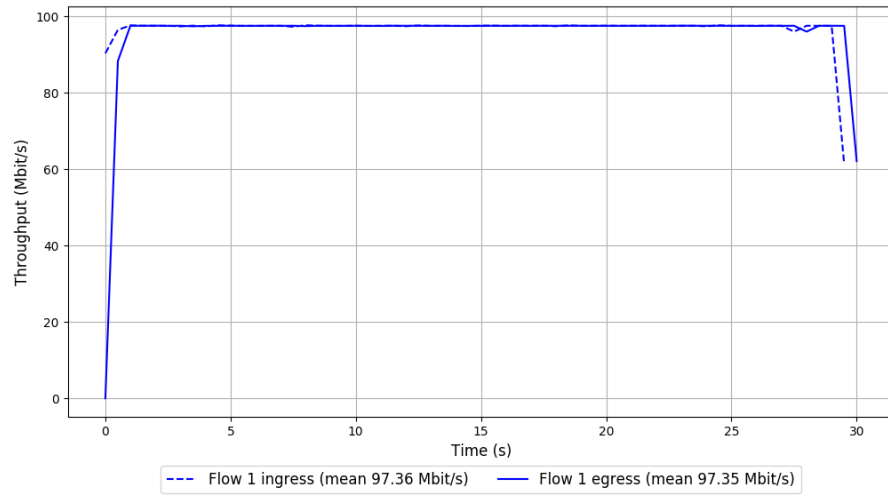
-- Flow 1:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 5.387 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo

Start at: 2019-06-27 20:51:48

End at: 2019-06-27 20:52:18

Local clock offset: -5.59 ms

Remote clock offset: 0.517 ms

# Below is generated by plot.py at 2019-06-27 21:14:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 4.729 ms

Loss rate: 0.00%

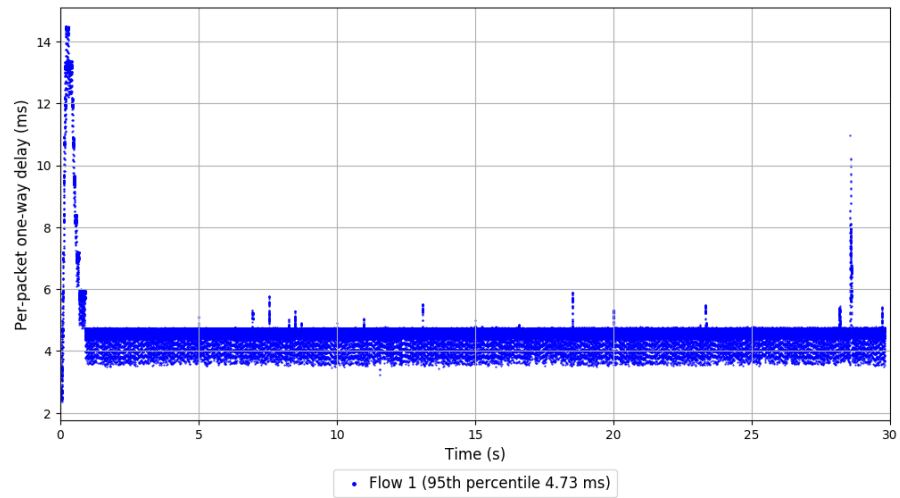
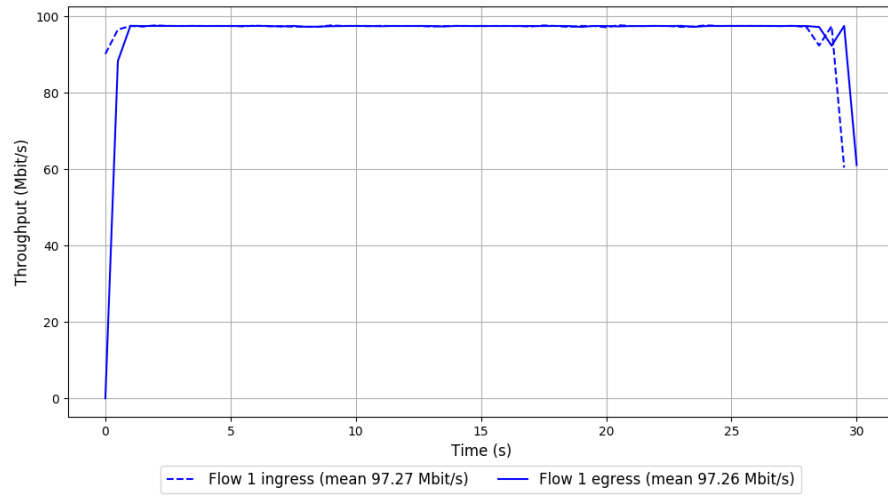
-- Flow 1:

Average throughput: 97.26 Mbit/s

95th percentile per-packet one-way delay: 4.729 ms

Loss rate: 0.00%

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

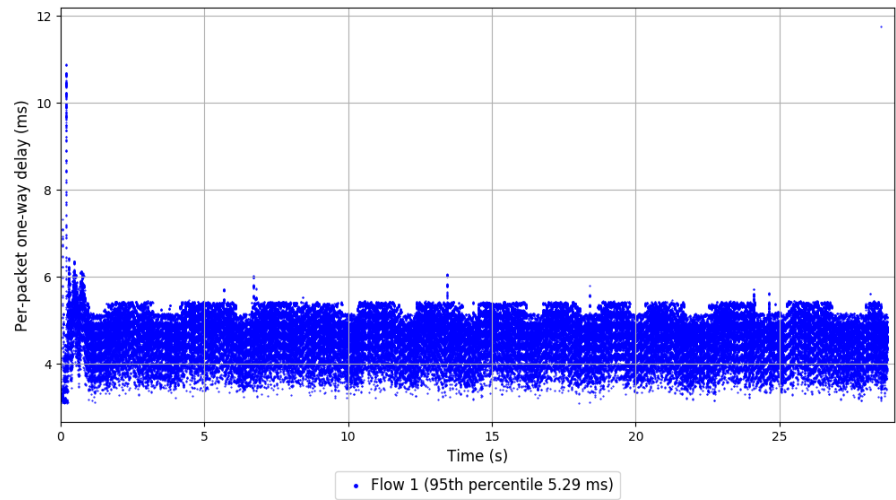
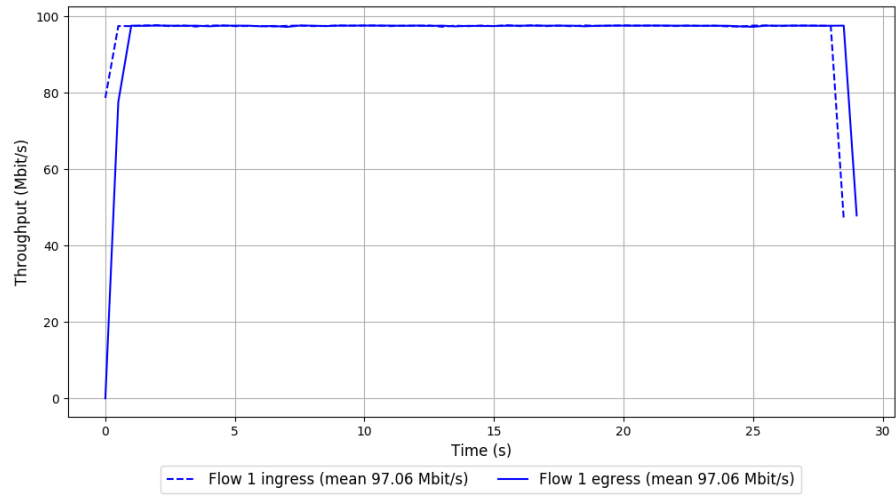


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-06-27 19:25:55  
End at: 2019-06-27 19:26:25  
Local clock offset: -5.946 ms  
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2019-06-27 21:14:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.06 Mbit/s  
95th percentile per-packet one-way delay: 5.294 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.06 Mbit/s  
95th percentile per-packet one-way delay: 5.294 ms  
Loss rate: 0.00%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-06-27 19:50:25

End at: 2019-06-27 19:50:56

Local clock offset: -4.775 ms

Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-06-27 21:14:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 3.983 ms

Loss rate: 0.00%

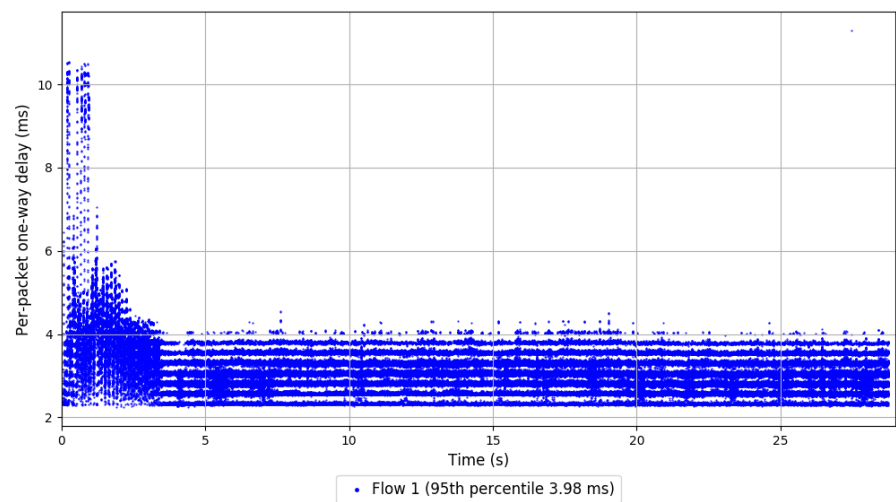
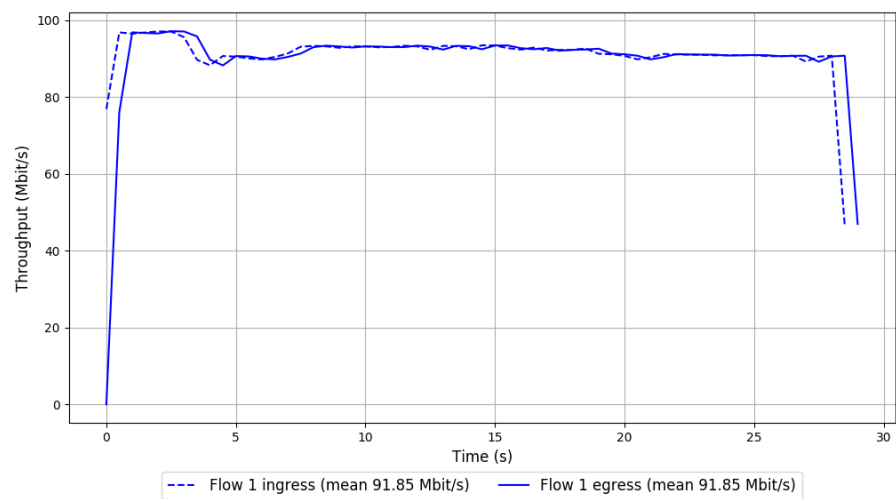
-- Flow 1:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 3.983 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-06-27 20:14:57

End at: 2019-06-27 20:15:27

Local clock offset: -5.815 ms

Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2019-06-27 21:14:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 4.701 ms

Loss rate: 0.00%

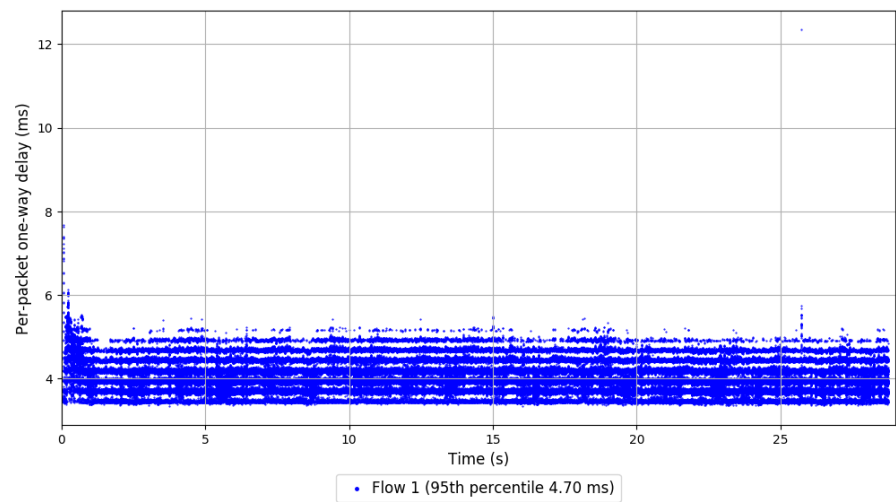
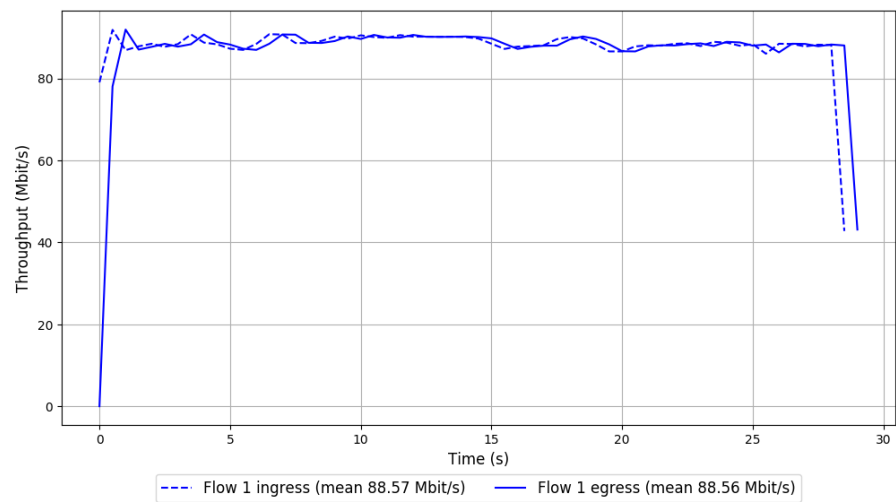
-- Flow 1:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 4.701 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-06-27 20:39:29

End at: 2019-06-27 20:39:59

Local clock offset: -6.412 ms

Remote clock offset: 0.518 ms

# Below is generated by plot.py at 2019-06-27 21:14:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.93 Mbit/s

95th percentile per-packet one-way delay: 3.607 ms

Loss rate: 0.00%

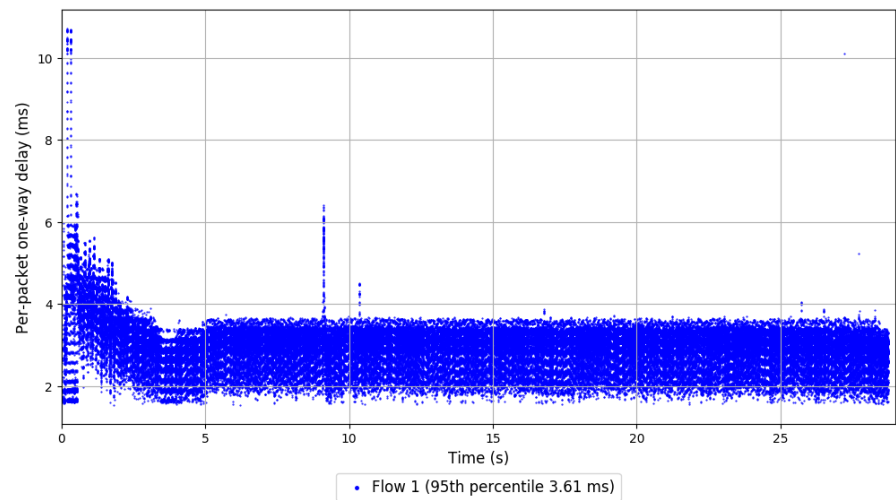
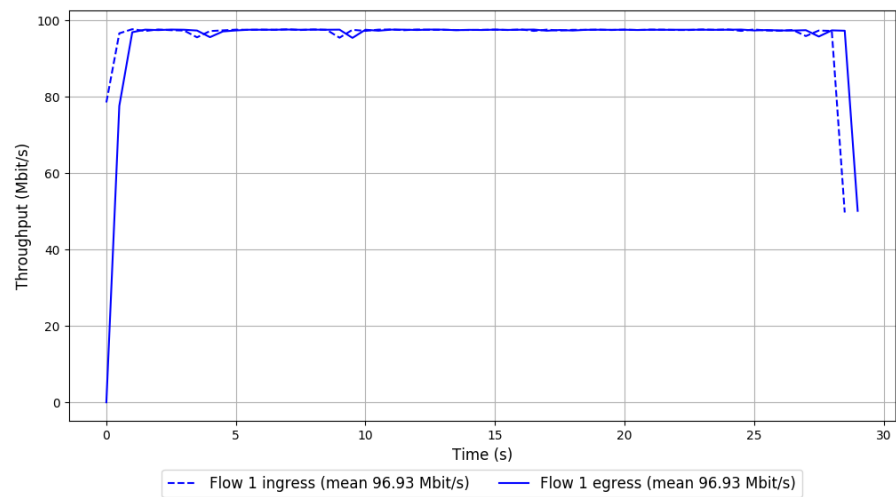
-- Flow 1:

Average throughput: 96.93 Mbit/s

95th percentile per-packet one-way delay: 3.607 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-06-27 21:04:03

End at: 2019-06-27 21:04:33

Local clock offset: -6.064 ms

Remote clock offset: 0.519 ms

# Below is generated by plot.py at 2019-06-27 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.50 Mbit/s

95th percentile per-packet one-way delay: 4.647 ms

Loss rate: 0.00%

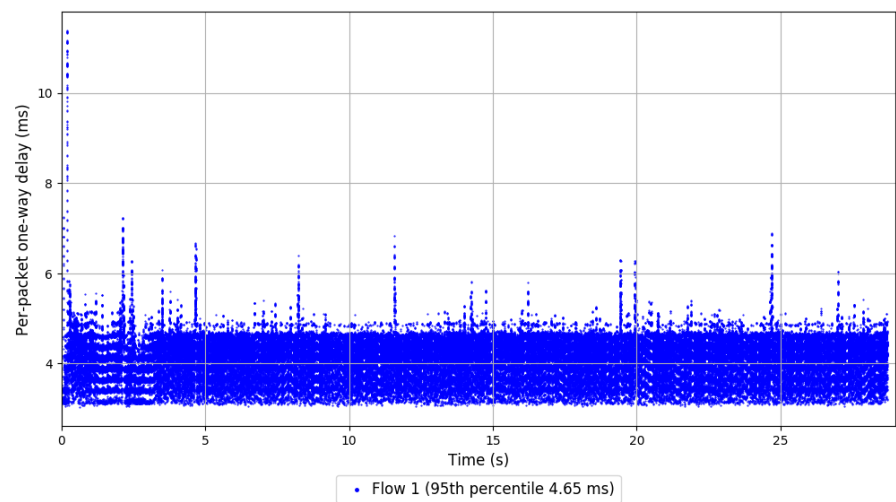
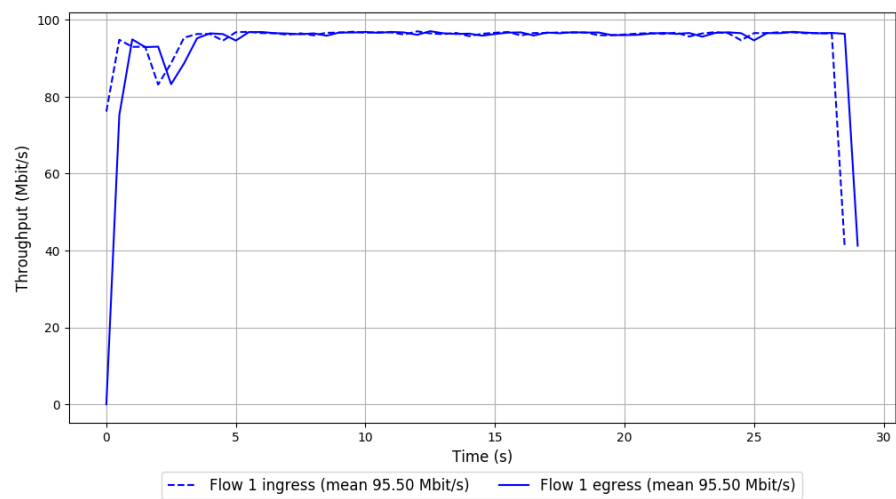
-- Flow 1:

Average throughput: 95.50 Mbit/s

95th percentile per-packet one-way delay: 4.647 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

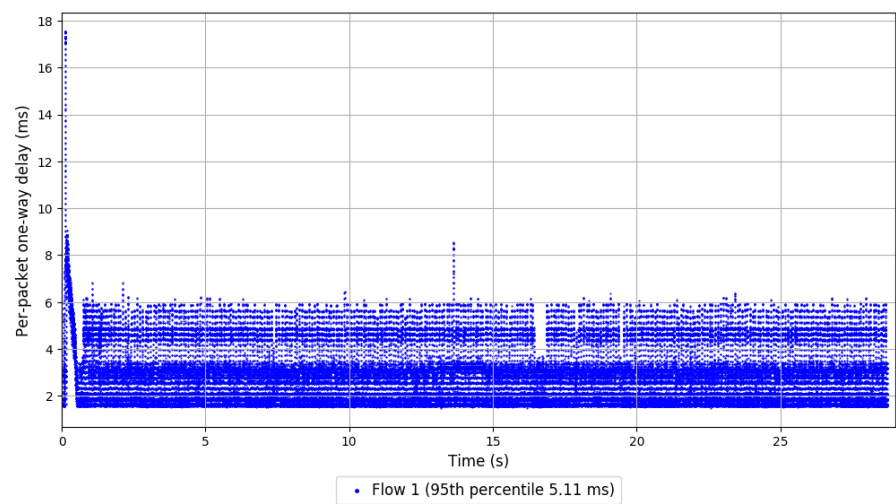
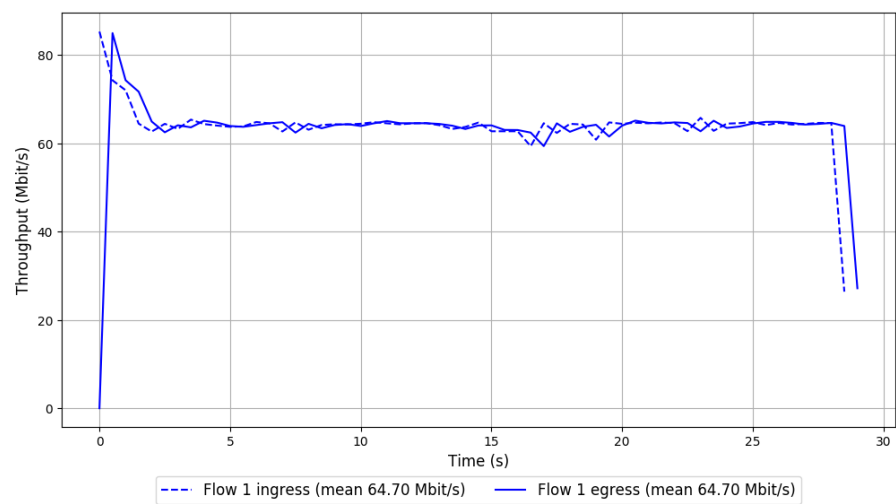


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-06-27 19:10:17  
End at: 2019-06-27 19:10:47  
Local clock offset: -6.276 ms  
Remote clock offset: -0.631 ms

# Below is generated by plot.py at 2019-06-27 21:14:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 64.70 Mbit/s  
95th percentile per-packet one-way delay: 5.110 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 64.70 Mbit/s  
95th percentile per-packet one-way delay: 5.110 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-06-27 19:34:51

End at: 2019-06-27 19:35:21

Local clock offset: -5.81 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2019-06-27 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 5.115 ms

Loss rate: 0.00%

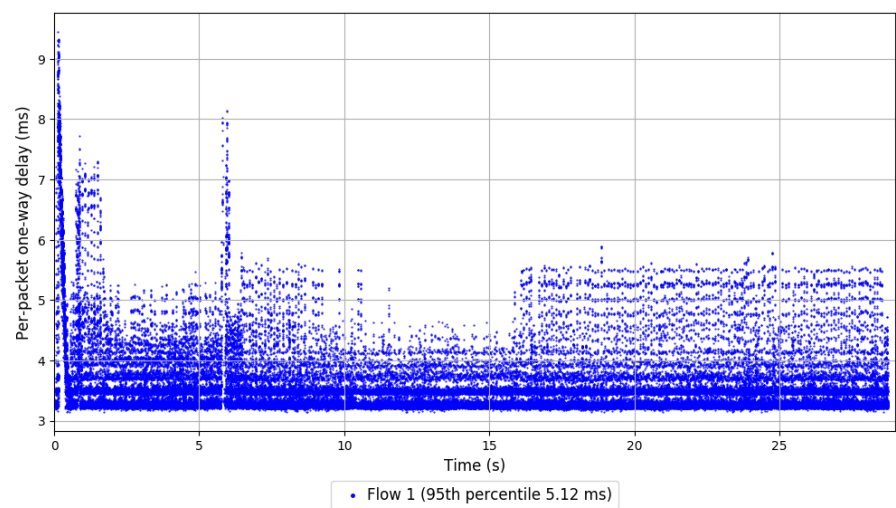
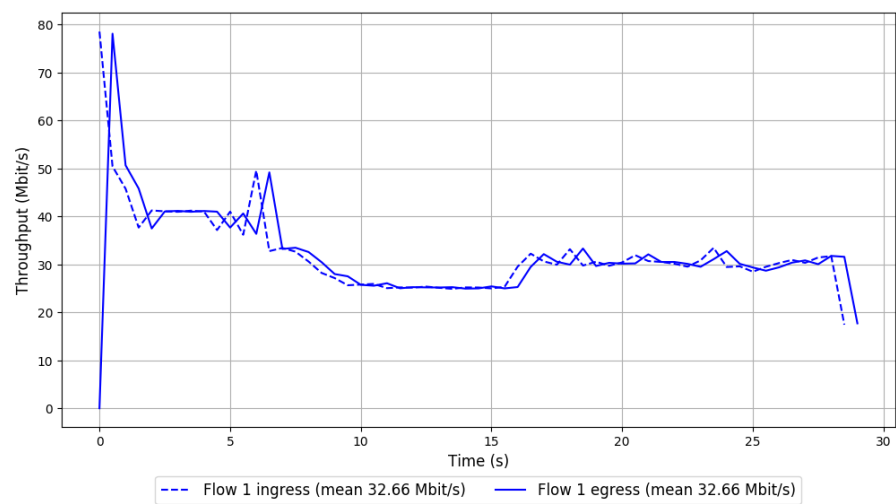
-- Flow 1:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 5.115 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-06-27 19:59:22

End at: 2019-06-27 19:59:52

Local clock offset: -5.015 ms

Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2019-06-27 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 44.30 Mbit/s

95th percentile per-packet one-way delay: 3.770 ms

Loss rate: 0.00%

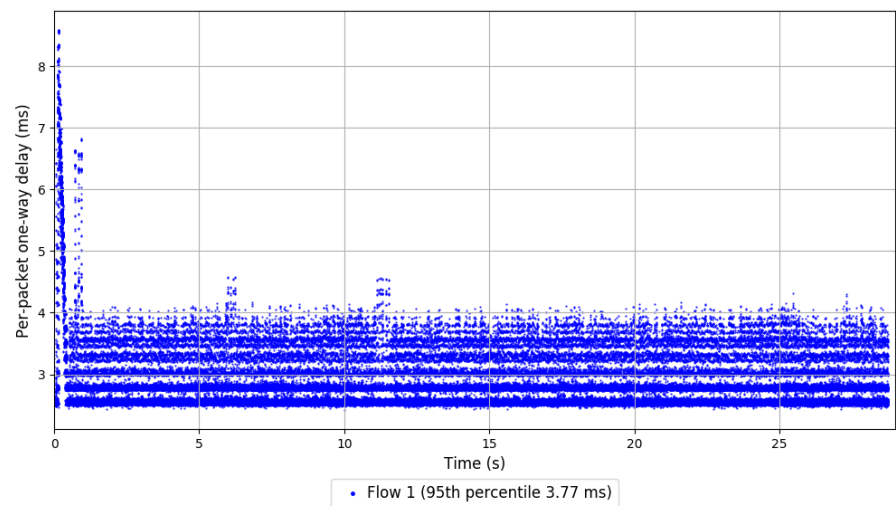
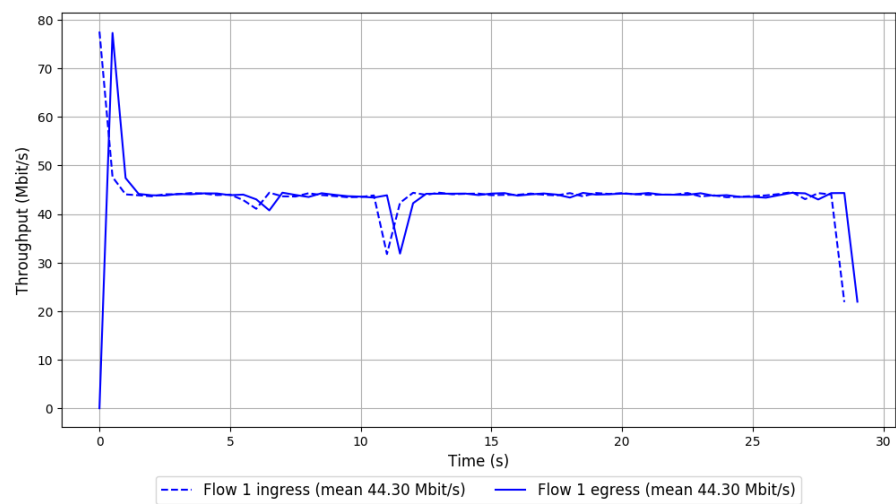
-- Flow 1:

Average throughput: 44.30 Mbit/s

95th percentile per-packet one-way delay: 3.770 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-06-27 20:23:54

End at: 2019-06-27 20:24:24

Local clock offset: -6.169 ms

Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2019-06-27 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 4.942 ms

Loss rate: 0.00%

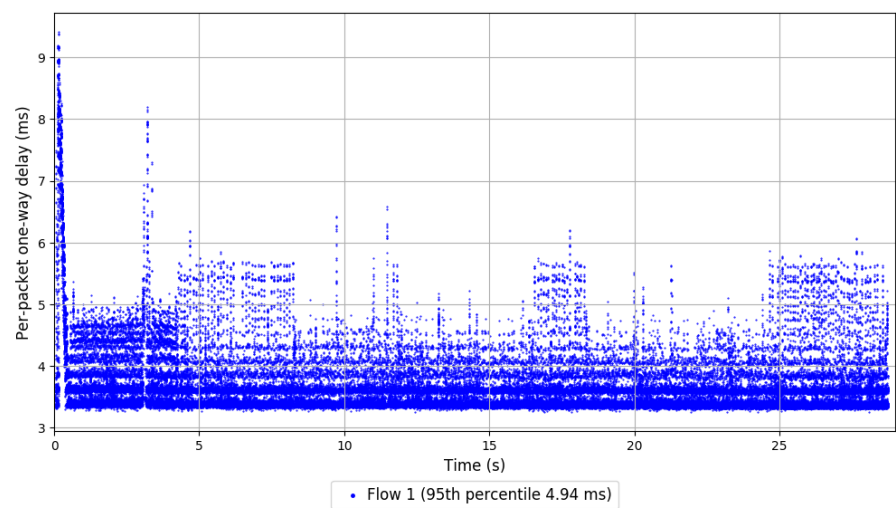
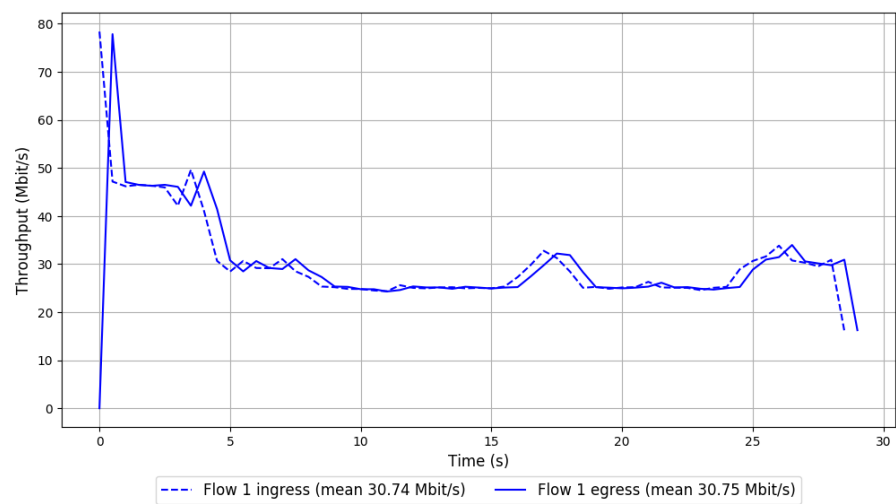
-- Flow 1:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 4.942 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-06-27 20:48:26

End at: 2019-06-27 20:48:56

Local clock offset: -5.67 ms

Remote clock offset: 0.522 ms

# Below is generated by plot.py at 2019-06-27 21:14:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.97 Mbit/s

95th percentile per-packet one-way delay: 3.389 ms

Loss rate: 0.00%

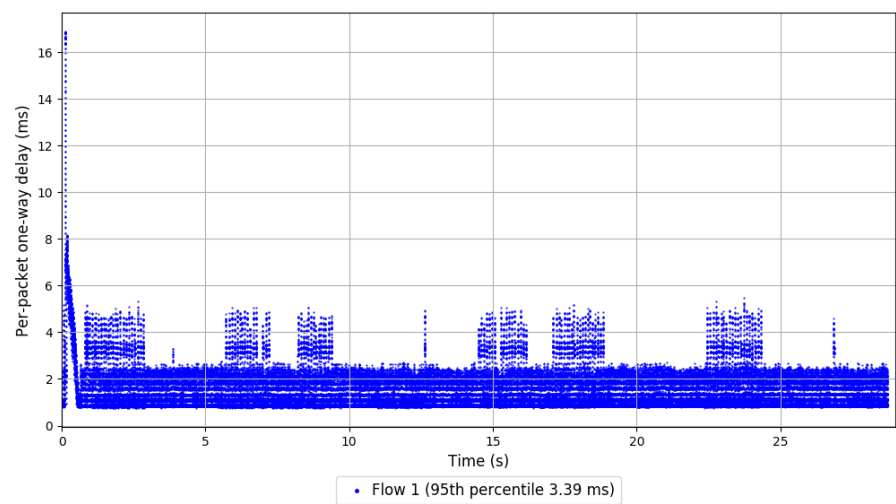
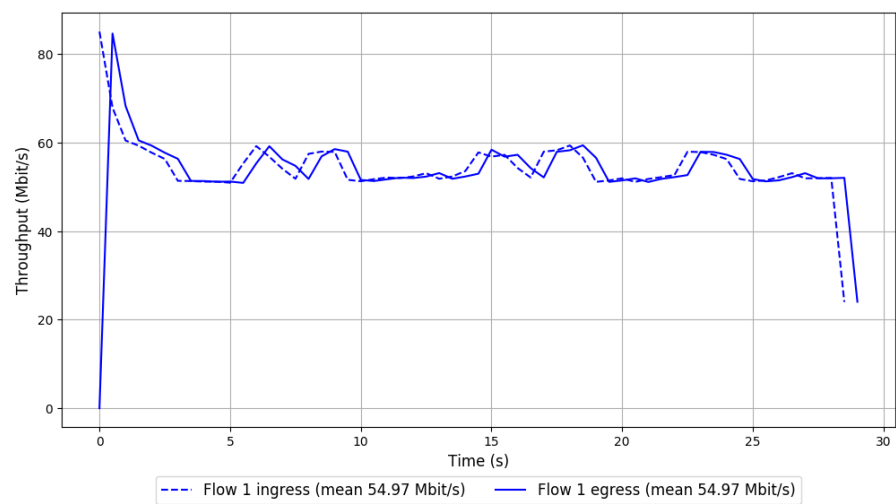
-- Flow 1:

Average throughput: 54.97 Mbit/s

95th percentile per-packet one-way delay: 3.389 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-06-27 19:27:03

End at: 2019-06-27 19:27:33

Local clock offset: -5.983 ms

Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2019-06-27 21:15:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.67 Mbit/s

95th percentile per-packet one-way delay: 5.269 ms

Loss rate: 0.00%

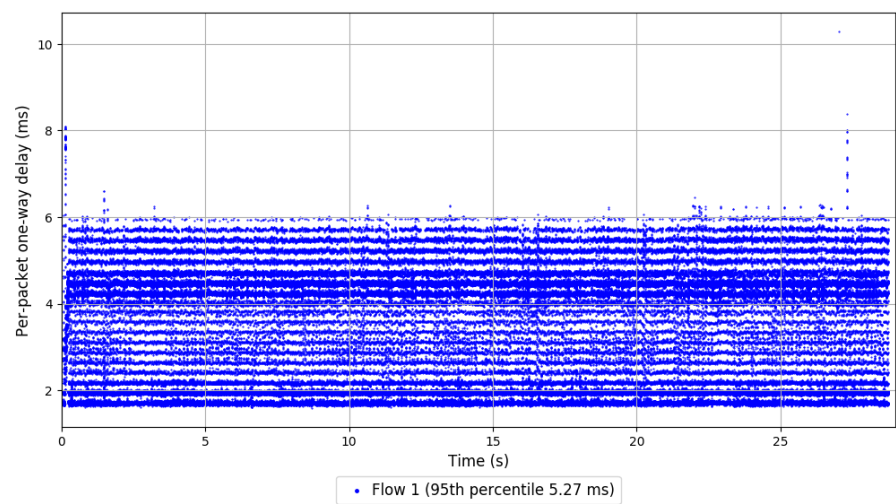
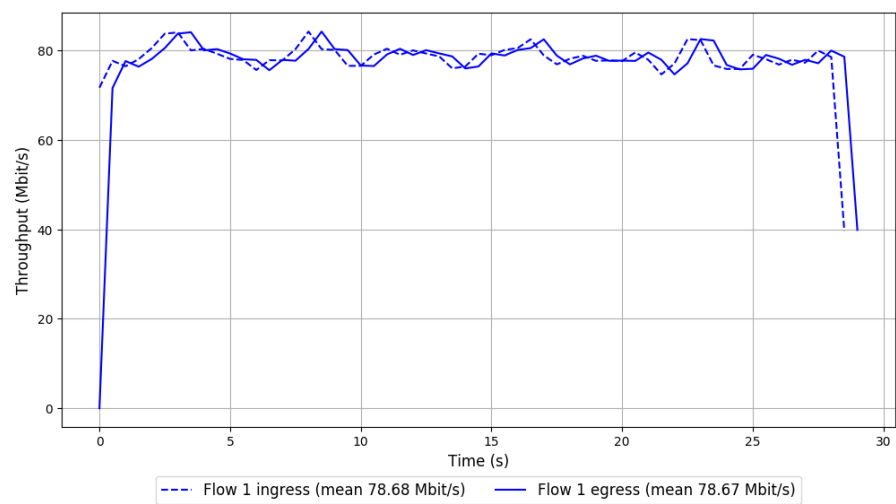
-- Flow 1:

Average throughput: 78.67 Mbit/s

95th percentile per-packet one-way delay: 5.269 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-06-27 19:51:33

End at: 2019-06-27 19:52:03

Local clock offset: -5.57 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2019-06-27 21:15:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 3.946 ms

Loss rate: 0.00%

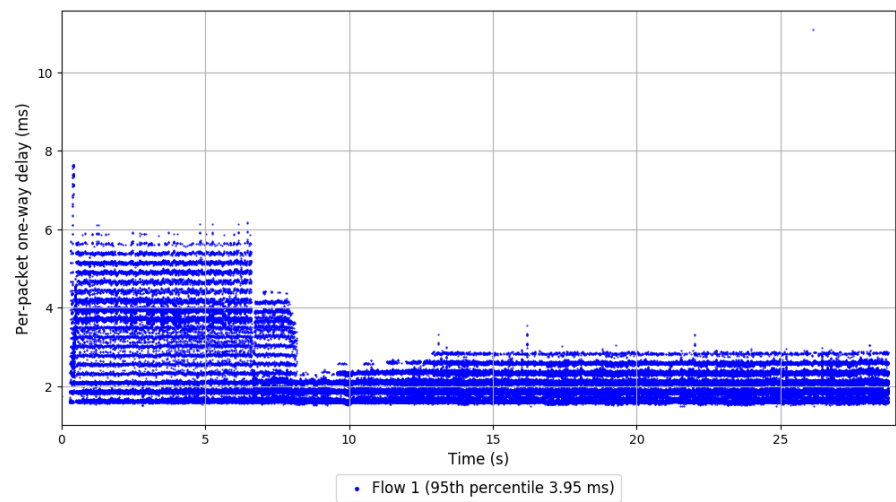
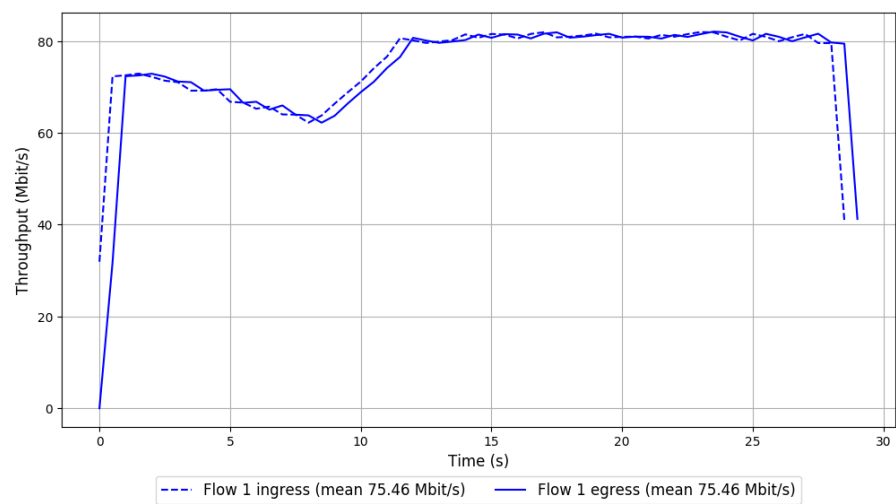
-- Flow 1:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 3.946 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-06-27 20:16:04

End at: 2019-06-27 20:16:34

Local clock offset: -5.495 ms

Remote clock offset: 0.334 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 4.478 ms

Loss rate: 0.00%

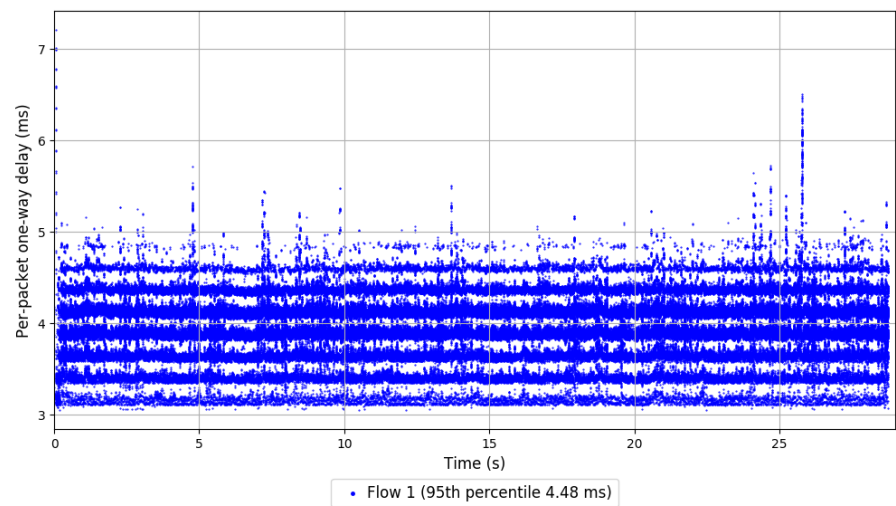
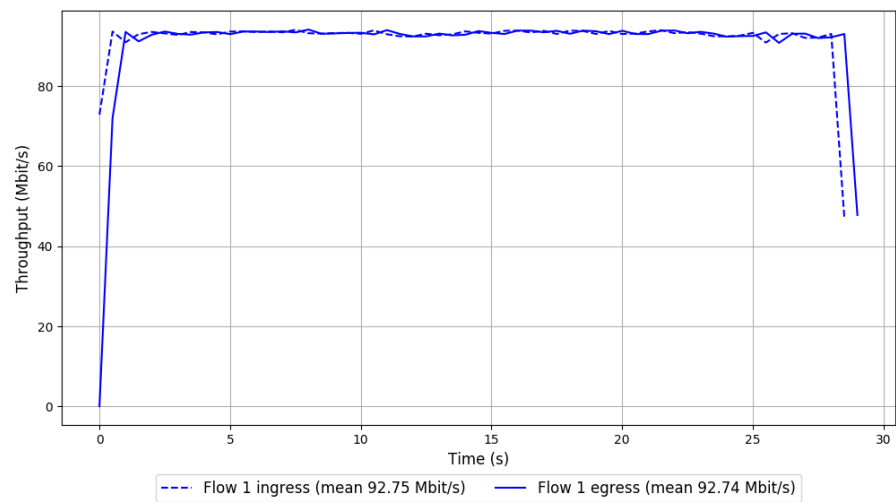
-- Flow 1:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 4.478 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-06-27 20:40:38

End at: 2019-06-27 20:41:08

Local clock offset: -5.849 ms

Remote clock offset: 0.435 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.29 Mbit/s

95th percentile per-packet one-way delay: 4.718 ms

Loss rate: 0.00%

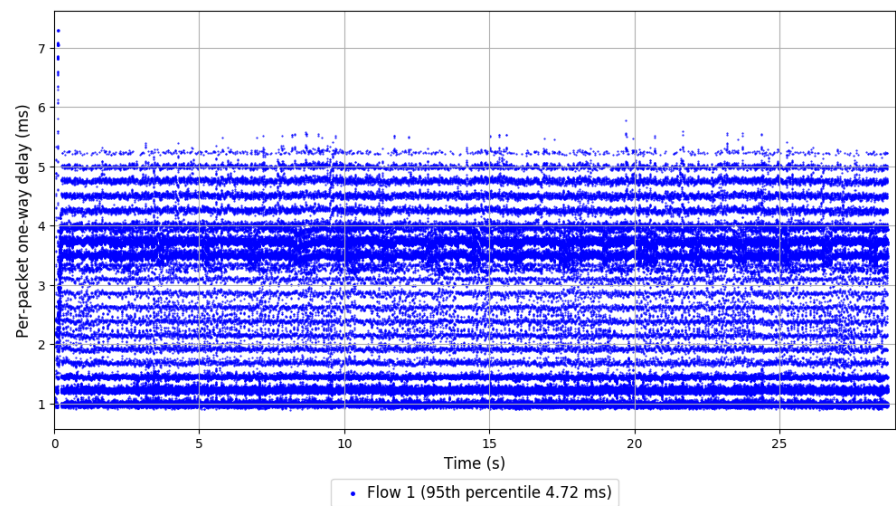
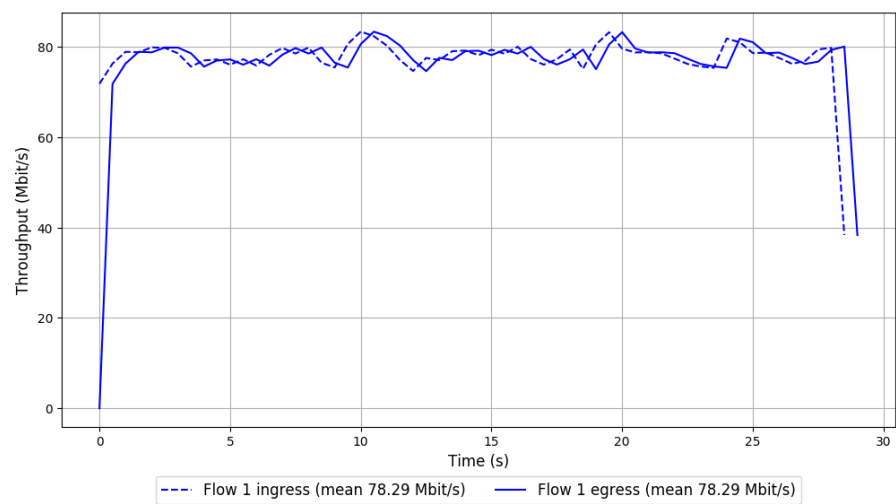
-- Flow 1:

Average throughput: 78.29 Mbit/s

95th percentile per-packet one-way delay: 4.718 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-06-27 21:05:11

End at: 2019-06-27 21:05:41

Local clock offset: -5.271 ms

Remote clock offset: 0.477 ms

# Below is generated by plot.py at 2019-06-27 21:15:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.25 Mbit/s

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

Loss rate: 0.00%

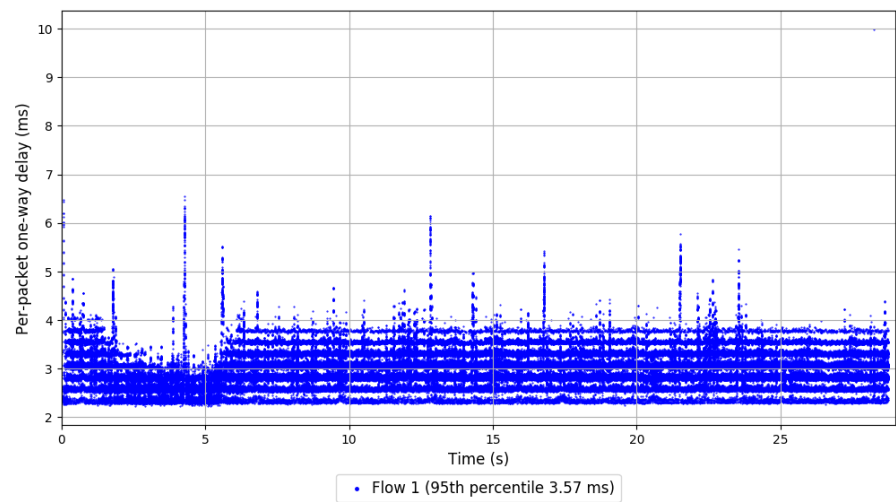
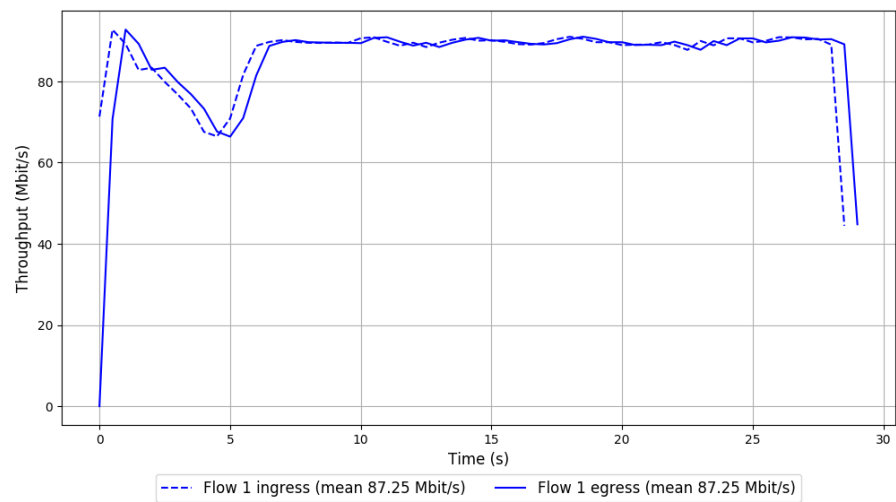
-- Flow 1:

Average throughput: 87.25 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-06-27 19:11:24

End at: 2019-06-27 19:11:54

Local clock offset: -6.245 ms

Remote clock offset: -0.613 ms

# Below is generated by plot.py at 2019-06-27 21:15:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.02 Mbit/s

95th percentile per-packet one-way delay: 4.122 ms

Loss rate: 0.00%

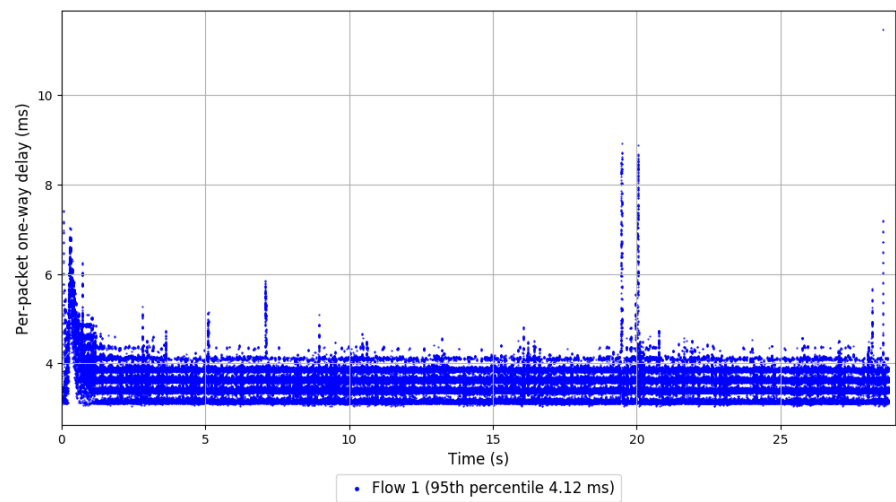
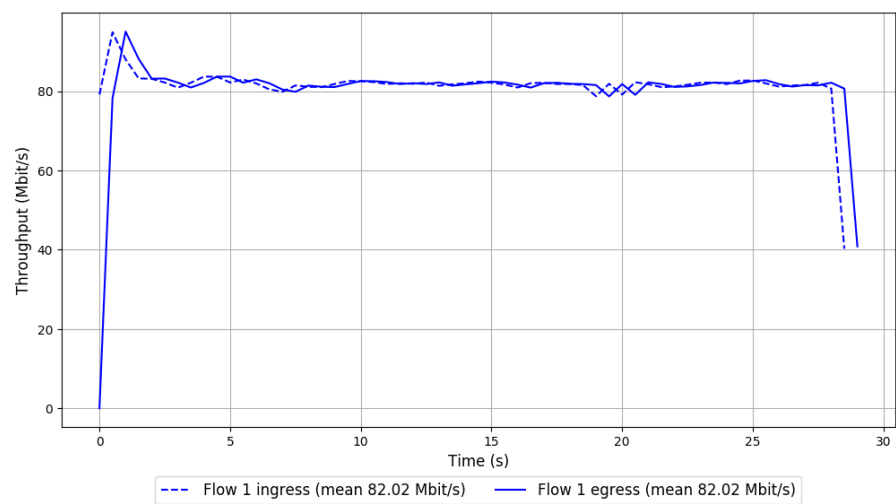
-- Flow 1:

Average throughput: 82.02 Mbit/s

95th percentile per-packet one-way delay: 4.122 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link

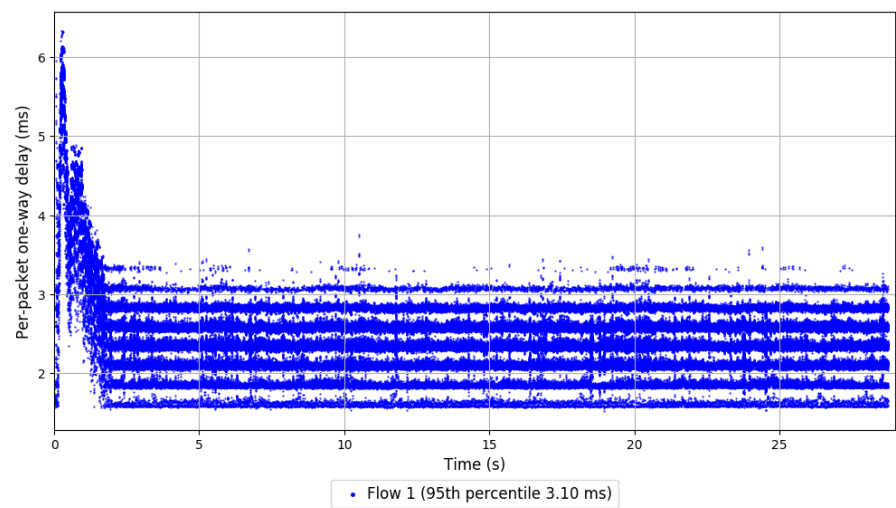
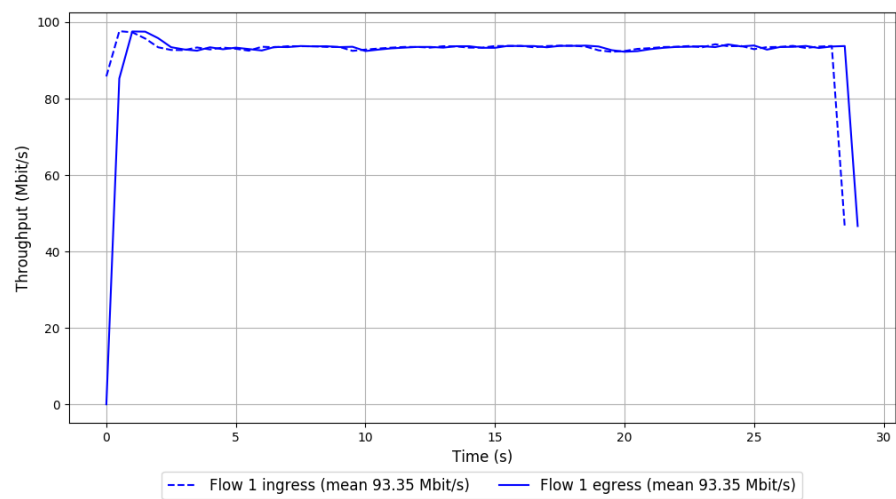


Run 2: Statistics of Indigo-MusesT

Start at: 2019-06-27 19:35:57  
End at: 2019-06-27 19:36:27  
Local clock offset: -5.711 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-06-27 21:15:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.35 Mbit/s  
95th percentile per-packet one-way delay: 3.103 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 93.35 Mbit/s  
95th percentile per-packet one-way delay: 3.103 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-06-27 20:00:28

End at: 2019-06-27 20:00:58

Local clock offset: -4.801 ms

Remote clock offset: 0.139 ms

# Below is generated by plot.py at 2019-06-27 21:15:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.72 Mbit/s

95th percentile per-packet one-way delay: 4.079 ms

Loss rate: 0.01%

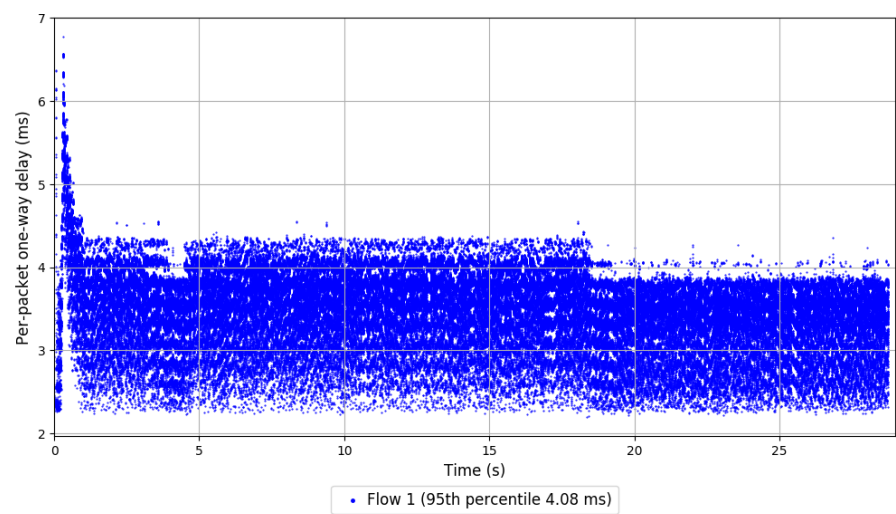
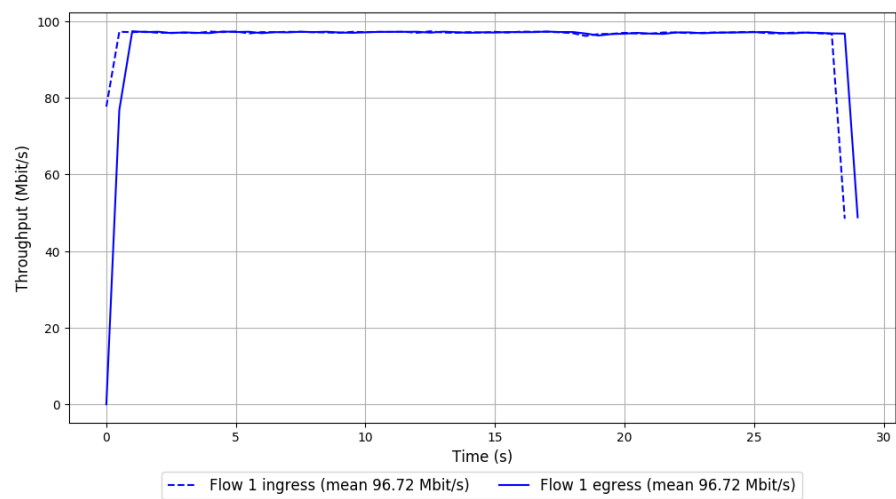
-- Flow 1:

Average throughput: 96.72 Mbit/s

95th percentile per-packet one-way delay: 4.079 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-06-27 20:24:59

End at: 2019-06-27 20:25:29

Local clock offset: -5.271 ms

Remote clock offset: 0.433 ms

# Below is generated by plot.py at 2019-06-27 21:16:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.08 Mbit/s

95th percentile per-packet one-way delay: 2.363 ms

Loss rate: 0.00%

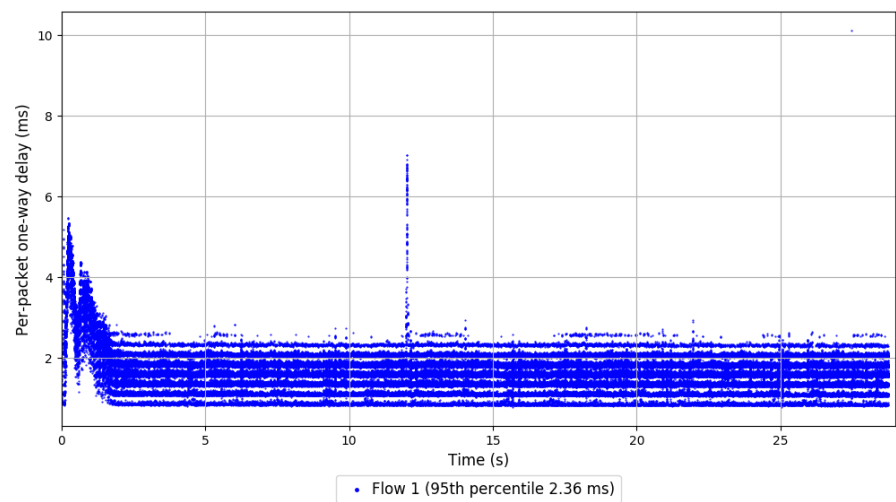
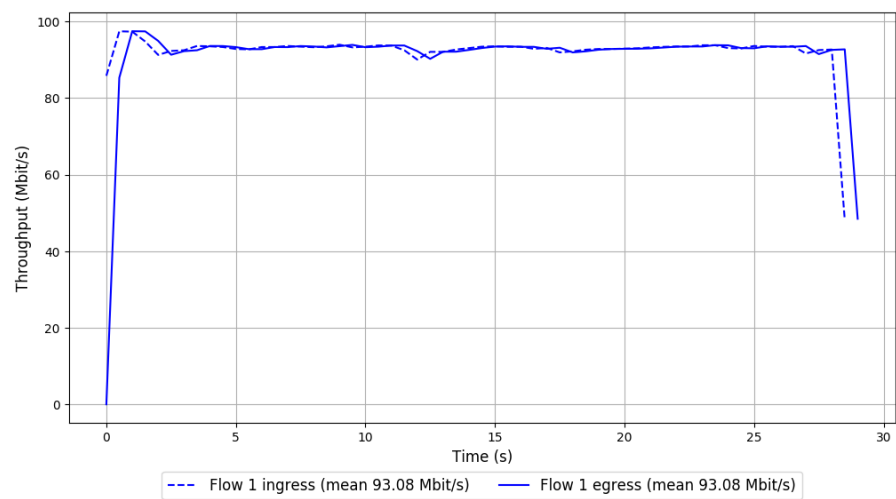
-- Flow 1:

Average throughput: 93.08 Mbit/s

95th percentile per-packet one-way delay: 2.363 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-06-27 20:49:33

End at: 2019-06-27 20:50:03

Local clock offset: -5.608 ms

Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-06-27 21:16:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.70 Mbit/s

95th percentile per-packet one-way delay: 3.440 ms

Loss rate: 0.00%

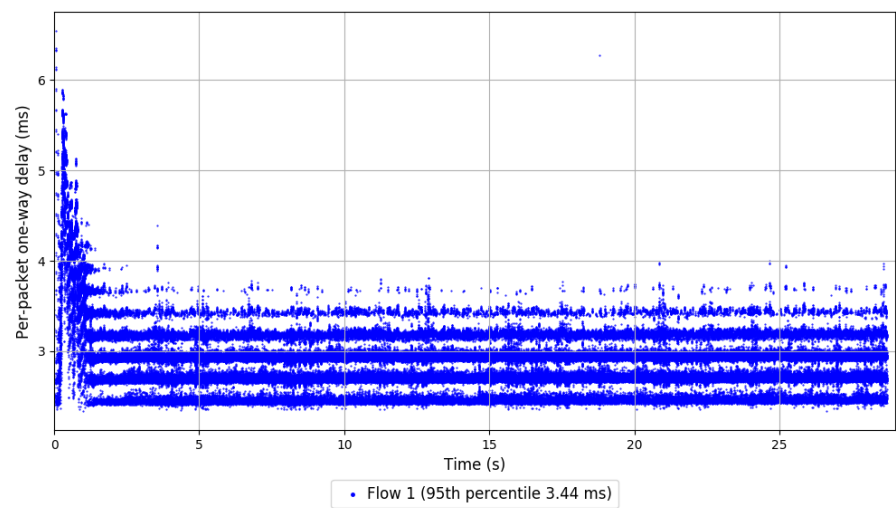
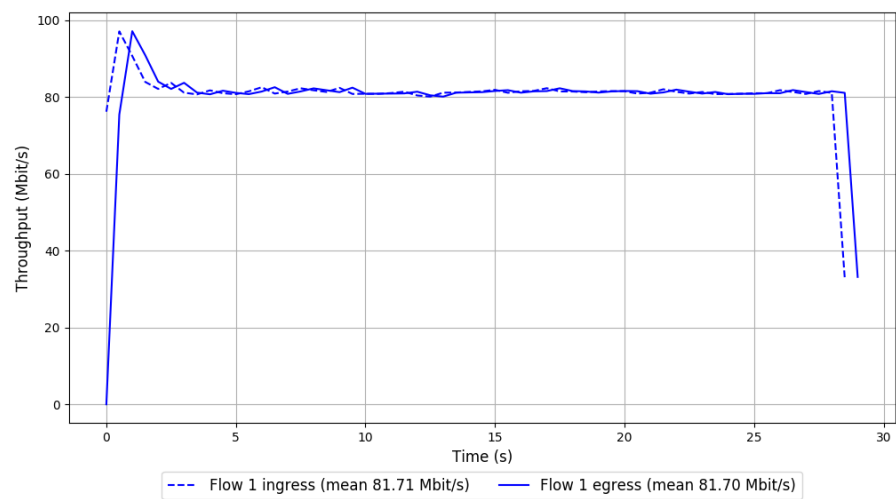
-- Flow 1:

Average throughput: 81.70 Mbit/s

95th percentile per-packet one-way delay: 3.440 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

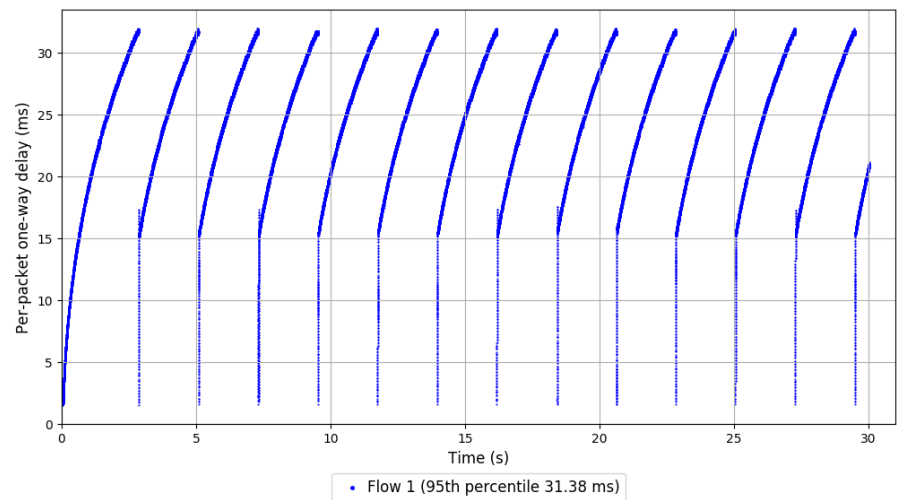
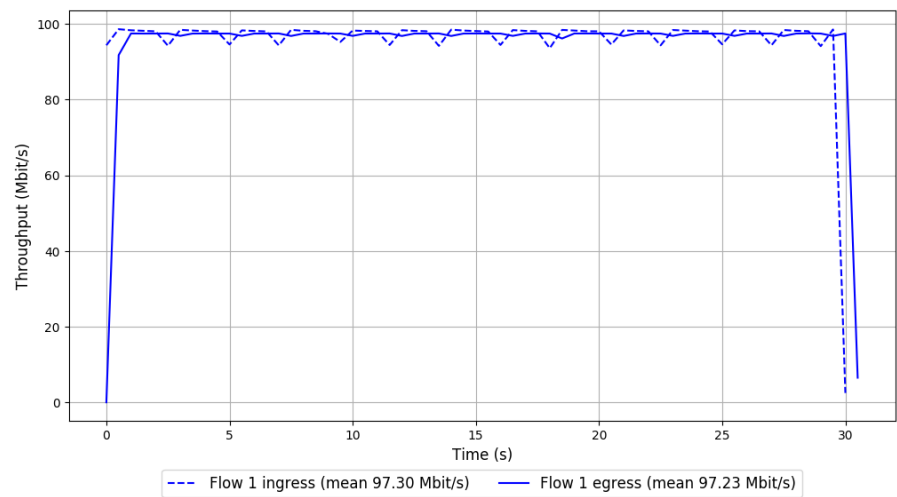


Run 1: Statistics of LEDBAT

Start at: 2019-06-27 19:29:19  
End at: 2019-06-27 19:29:49  
Local clock offset: -5.864 ms  
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-06-27 21:16:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.23 Mbit/s  
95th percentile per-packet one-way delay: 31.378 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.23 Mbit/s  
95th percentile per-packet one-way delay: 31.378 ms  
Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-06-27 19:53:50

End at: 2019-06-27 19:54:20

Local clock offset: -5.587 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2019-06-27 21:16:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 31.348 ms

Loss rate: 0.01%

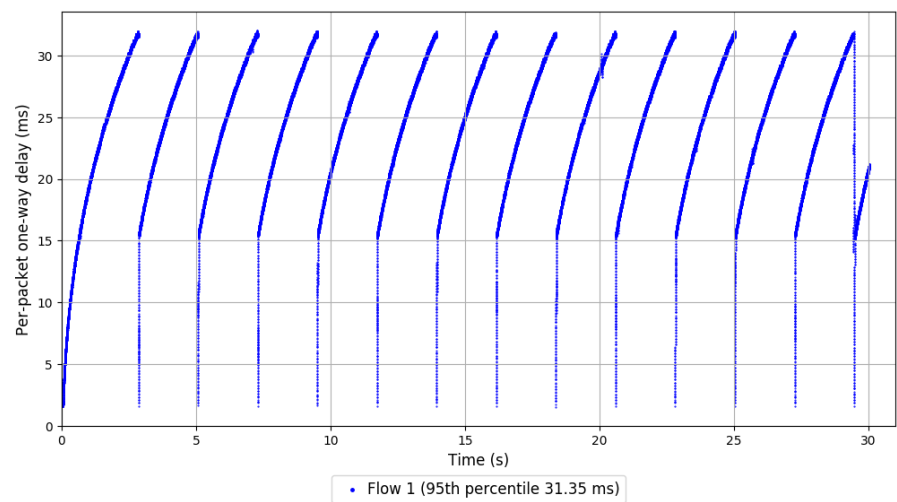
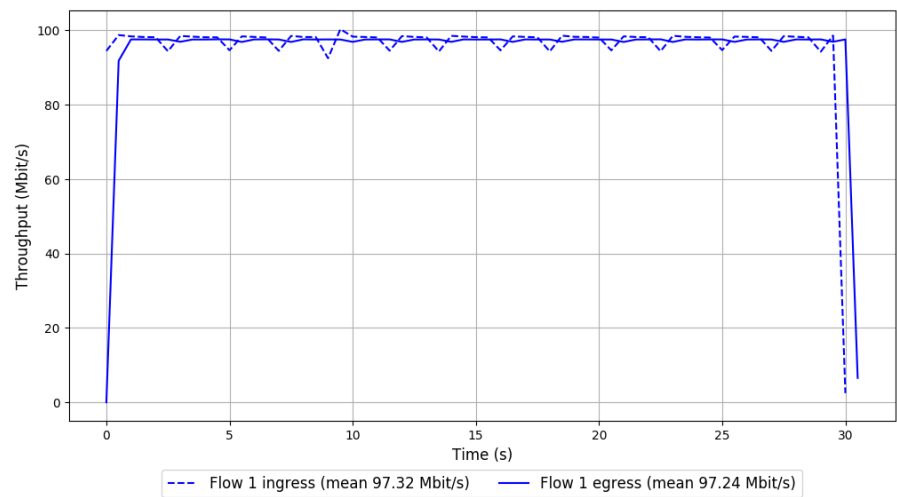
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 31.348 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-06-27 20:18:22

End at: 2019-06-27 20:18:52

Local clock offset: -5.801 ms

Remote clock offset: 0.41 ms

# Below is generated by plot.py at 2019-06-27 21:16:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 33.144 ms

Loss rate: 0.01%

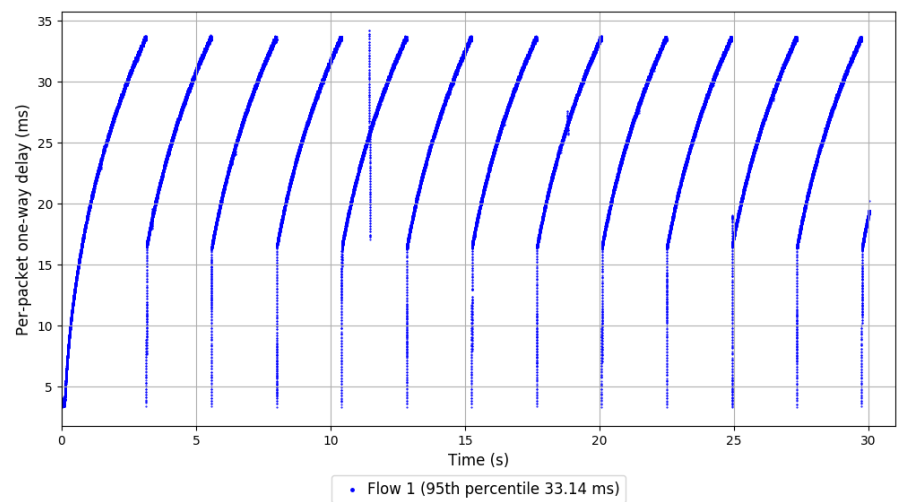
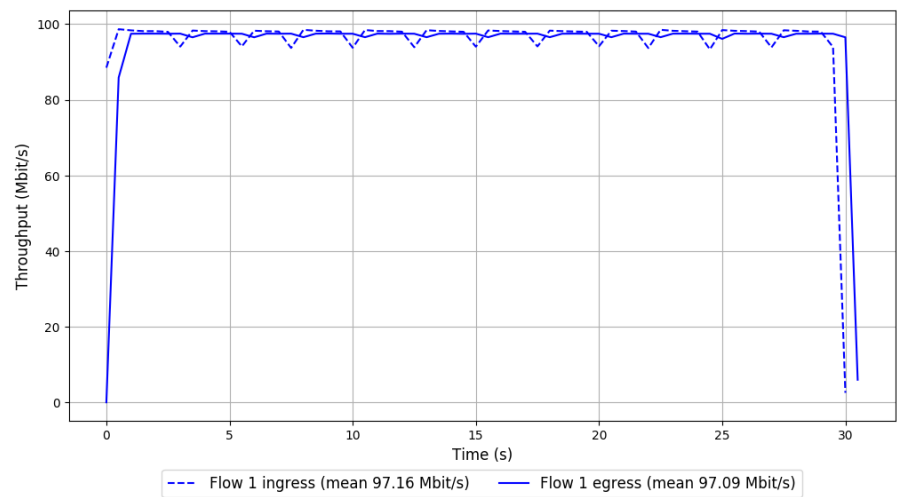
-- Flow 1:

Average throughput: 97.09 Mbit/s

95th percentile per-packet one-way delay: 33.144 ms

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-06-27 20:42:54

End at: 2019-06-27 20:43:24

Local clock offset: -6.436 ms

Remote clock offset: 0.411 ms

# Below is generated by plot.py at 2019-06-27 21:16:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 31.274 ms

Loss rate: 0.01%

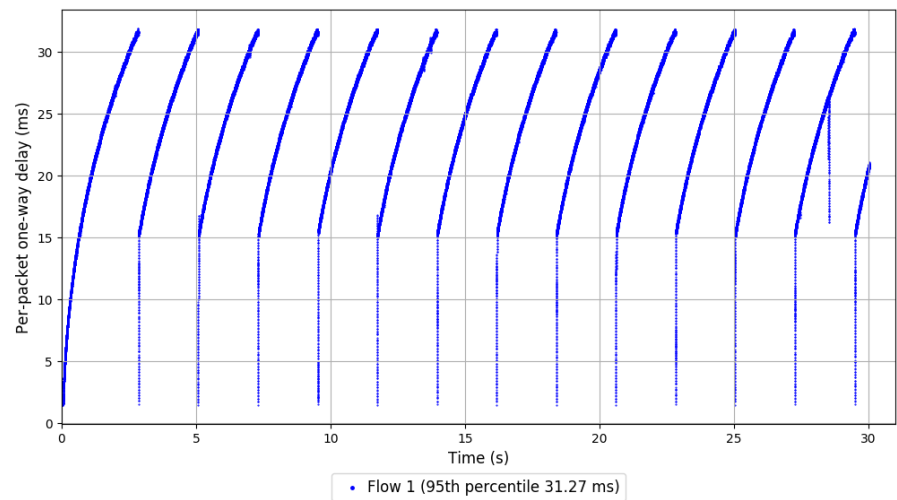
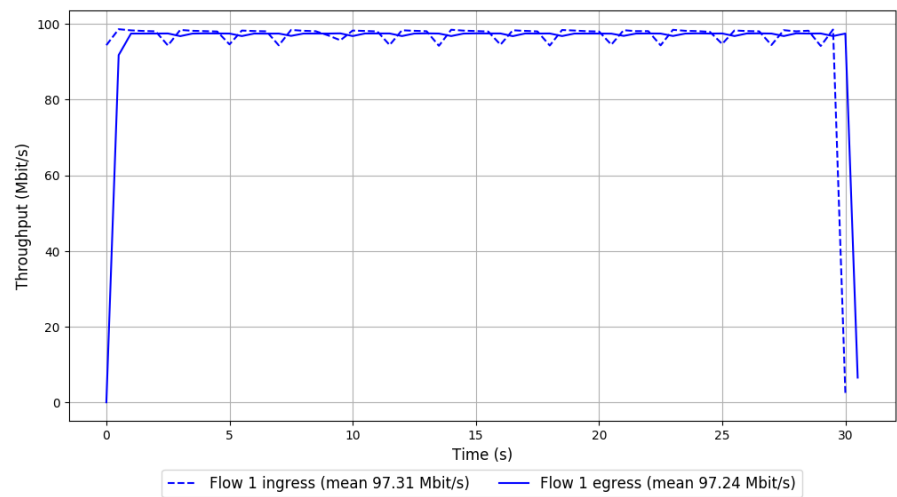
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 31.274 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-06-27 21:07:28

End at: 2019-06-27 21:07:58

Local clock offset: -5.241 ms

Remote clock offset: 0.417 ms

# Below is generated by plot.py at 2019-06-27 21:16:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 30.489 ms

Loss rate: 0.01%

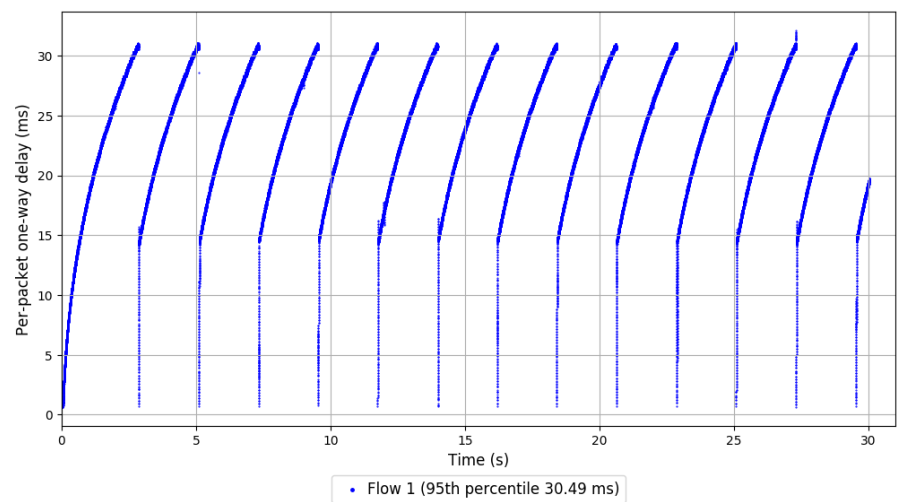
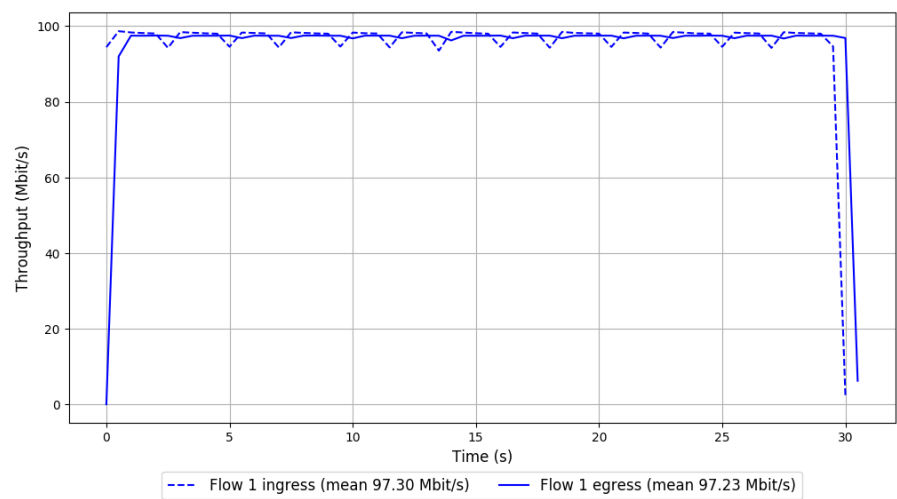
-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 30.489 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link

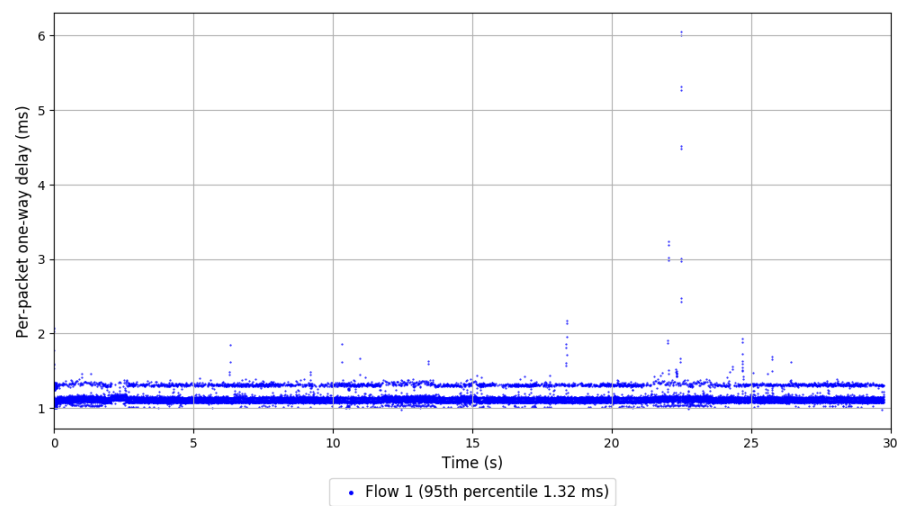
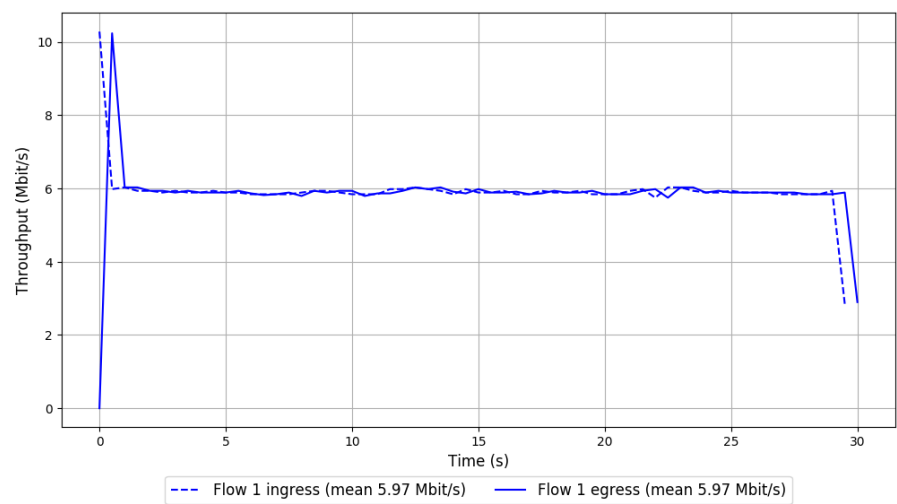


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 19:05:56  
End at: 2019-06-27 19:06:26  
Local clock offset: -5.868 ms  
Remote clock offset: -0.747 ms

# Below is generated by plot.py at 2019-06-27 21:16:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.97 Mbit/s  
95th percentile per-packet one-way delay: 1.321 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.97 Mbit/s  
95th percentile per-packet one-way delay: 1.321 ms  
Loss rate: 0.00%

Run 1: Report of Muses\_DecisionTree — Data Link



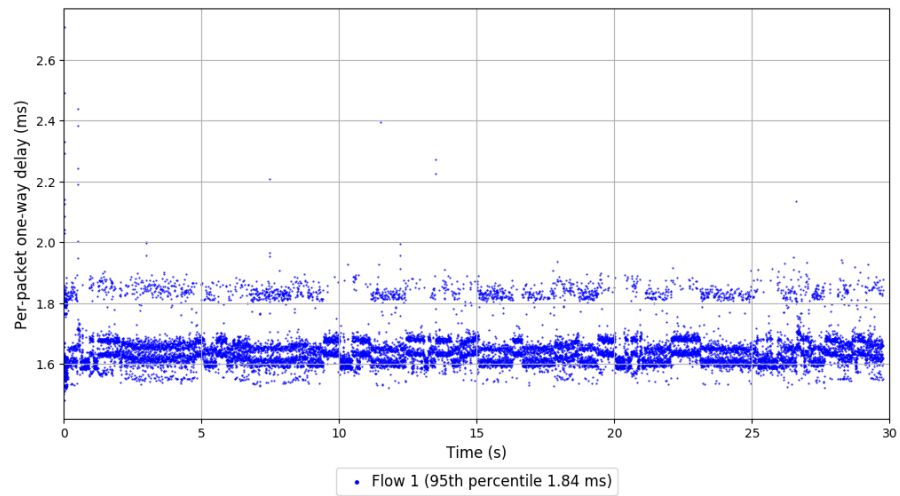
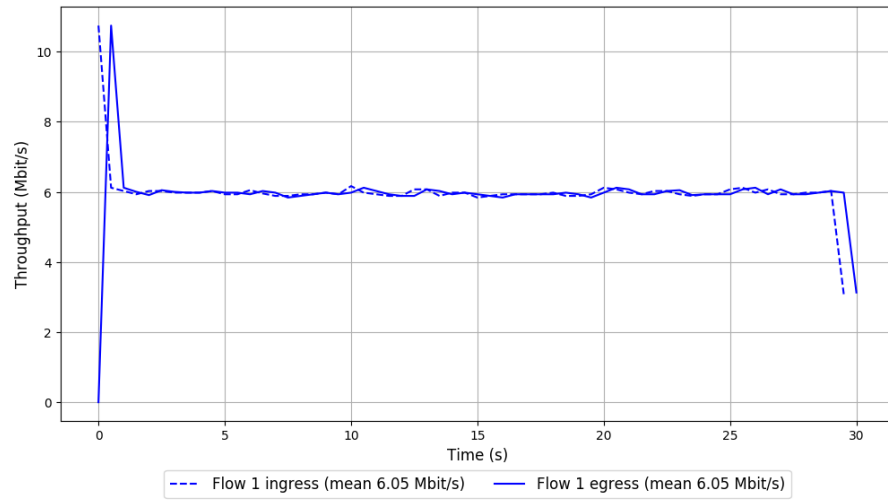


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 19:30:29  
End at: 2019-06-27 19:30:59  
Local clock offset: -5.837 ms  
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2019-06-27 21:16:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.05 Mbit/s  
95th percentile per-packet one-way delay: 1.838 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.05 Mbit/s  
95th percentile per-packet one-way delay: 1.838 ms  
Loss rate: 0.00%

## Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 19:54:59

End at: 2019-06-27 19:55:29

Local clock offset: -5.588 ms

Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2019-06-27 21:16:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 1.869 ms

Loss rate: 0.00%

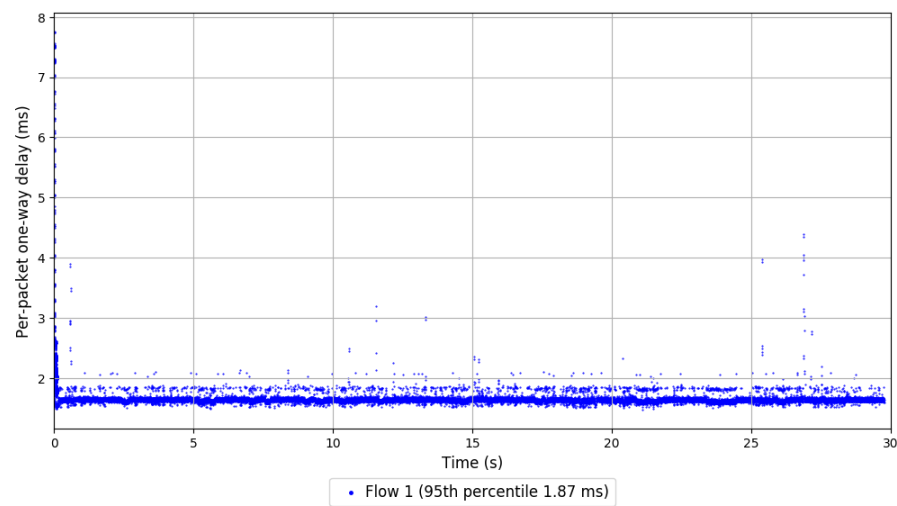
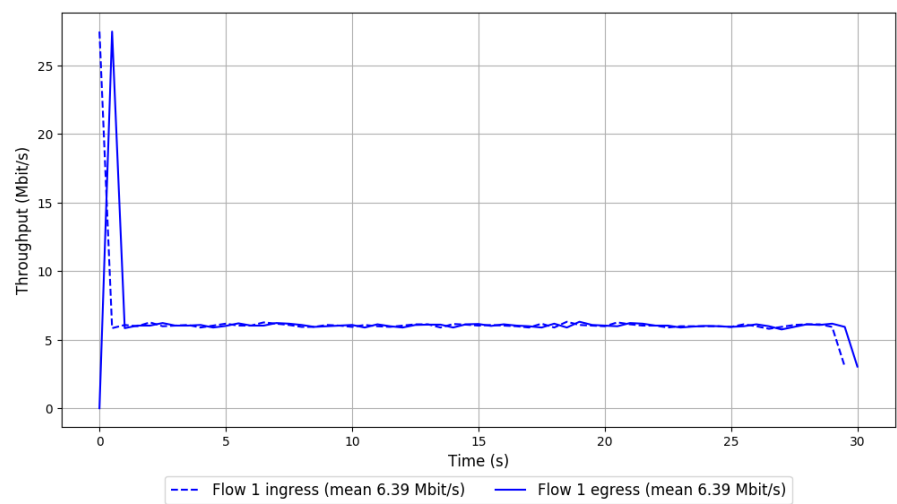
-- Flow 1:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 1.869 ms

Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 20:19:31

End at: 2019-06-27 20:20:01

Local clock offset: -5.849 ms

Remote clock offset: 0.425 ms

# Below is generated by plot.py at 2019-06-27 21:16:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 3.917 ms

Loss rate: 0.02%

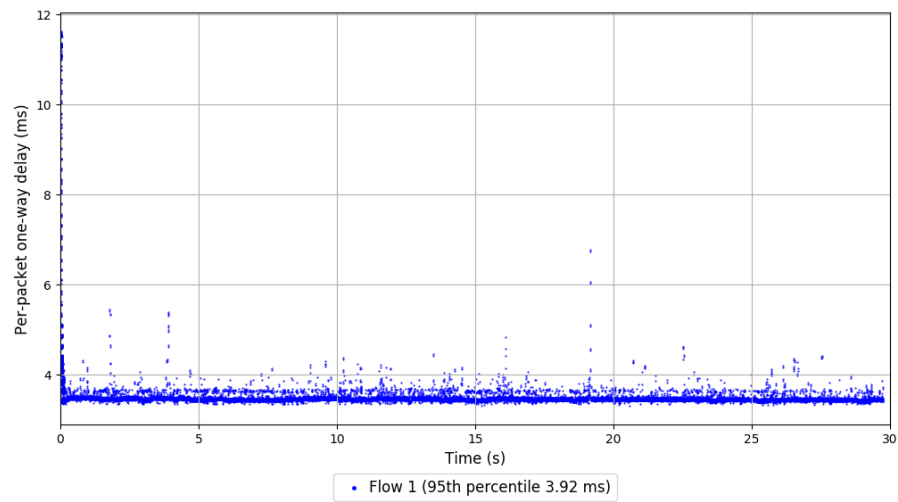
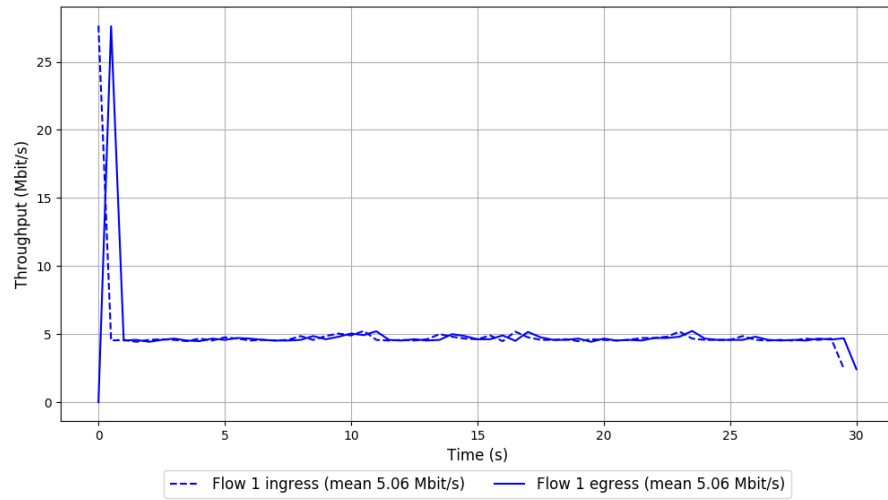
-- Flow 1:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 3.917 ms

Loss rate: 0.02%

#### Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 20:44:04

End at: 2019-06-27 20:44:34

Local clock offset: -6.664 ms

Remote clock offset: 0.45 ms

# Below is generated by plot.py at 2019-06-27 21:16:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 2.043 ms

Loss rate: 0.00%

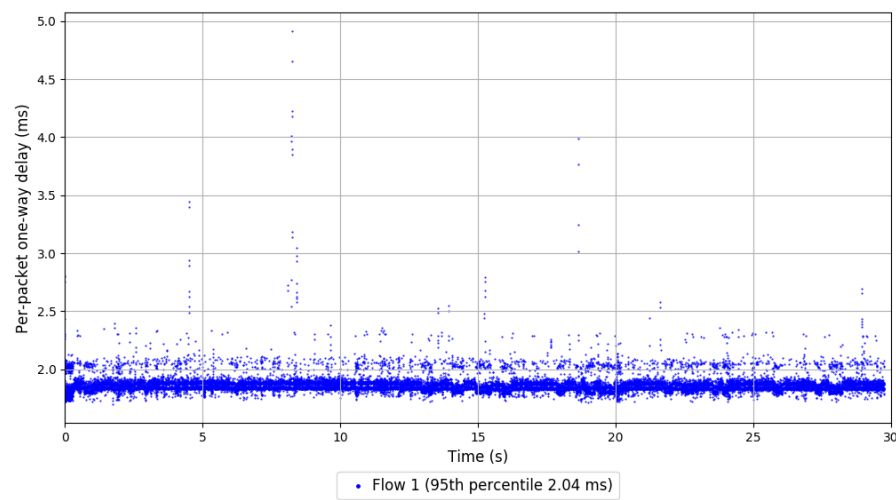
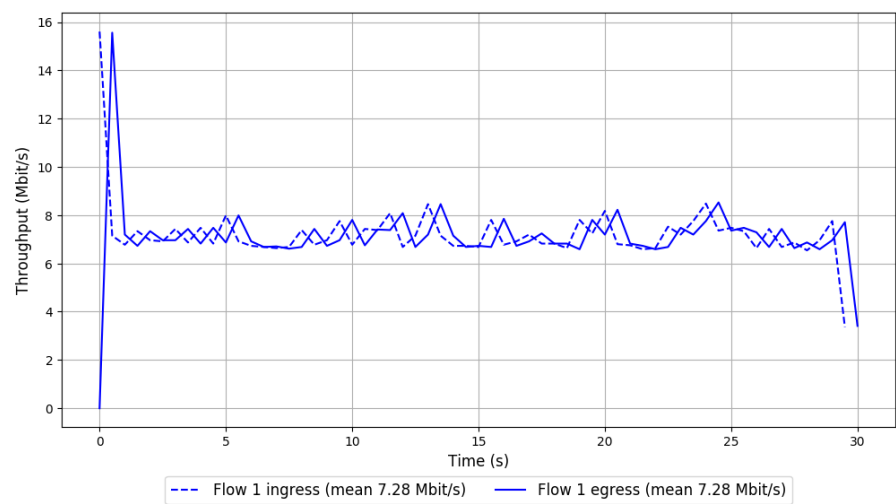
-- Flow 1:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 2.043 ms

Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2019-06-27 19:17:01

End at: 2019-06-27 19:17:31

Local clock offset: -6.404 ms

Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2019-06-27 21:17:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.16 Mbit/s

95th percentile per-packet one-way delay: 4.255 ms

Loss rate: 0.01%

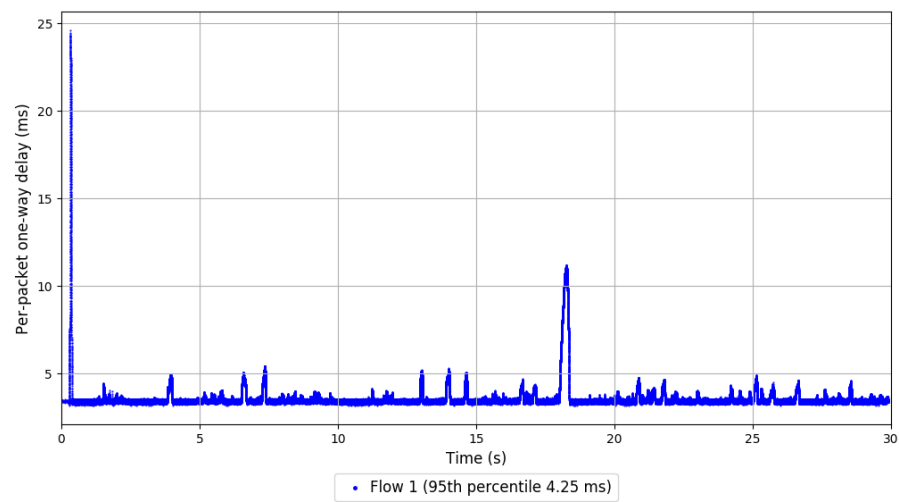
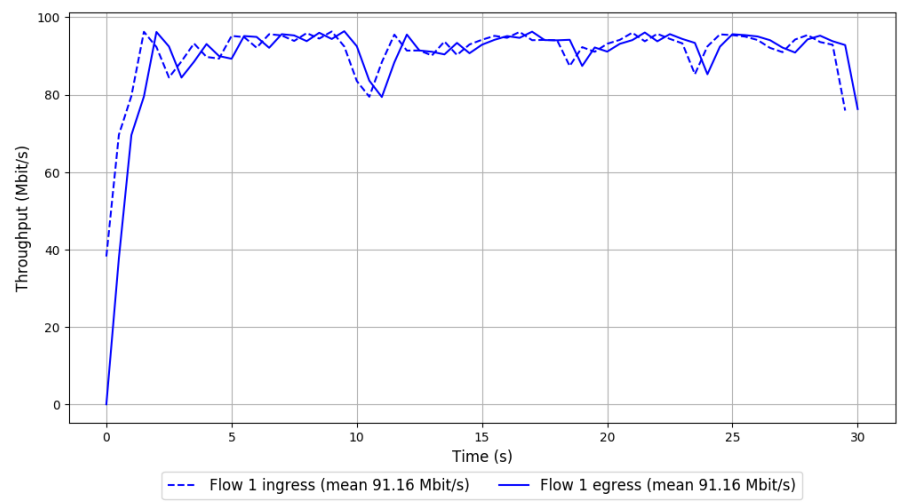
-- Flow 1:

Average throughput: 91.16 Mbit/s

95th percentile per-packet one-way delay: 4.255 ms

Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-06-27 19:41:34

End at: 2019-06-27 19:42:04

Local clock offset: -5.064 ms

Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-06-27 21:17:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.73 Mbit/s

95th percentile per-packet one-way delay: 3.582 ms

Loss rate: 0.01%

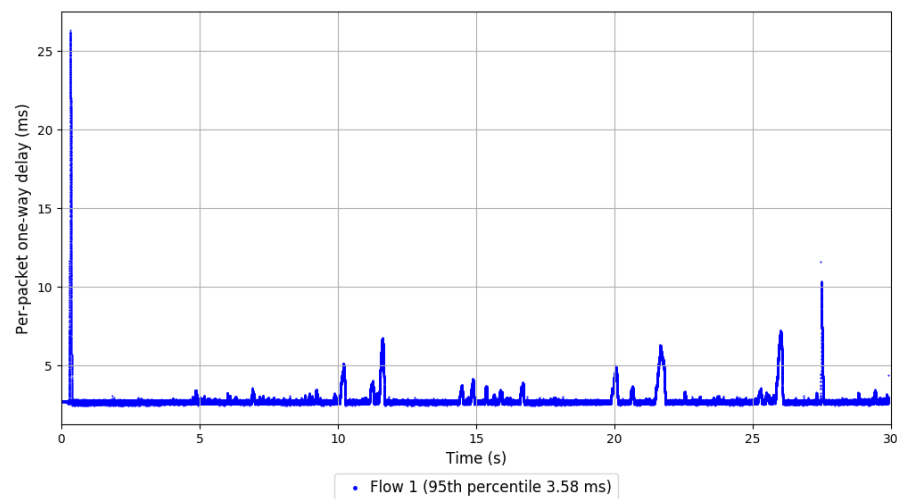
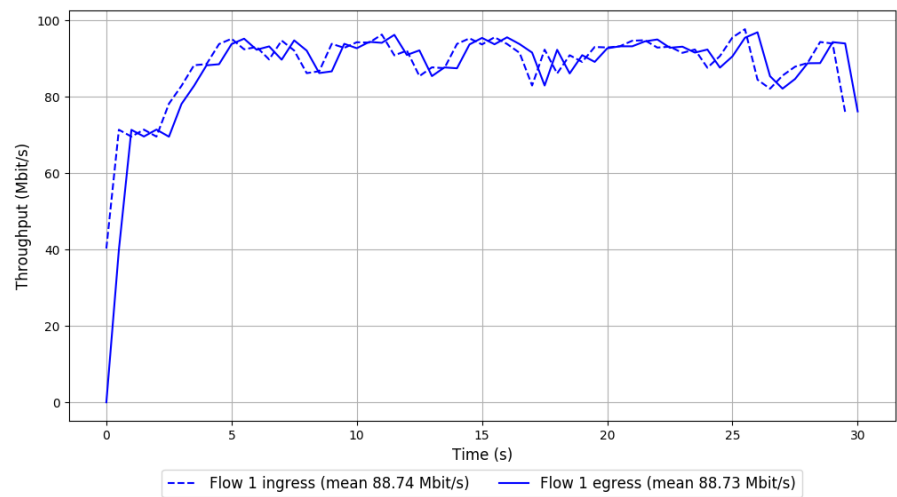
-- Flow 1:

Average throughput: 88.73 Mbit/s

95th percentile per-packet one-way delay: 3.582 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

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

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

Local clock offset: -5.783 ms

Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2019-06-27 21:17:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.29 Mbit/s

95th percentile per-packet one-way delay: 4.617 ms

Loss rate: 0.00%

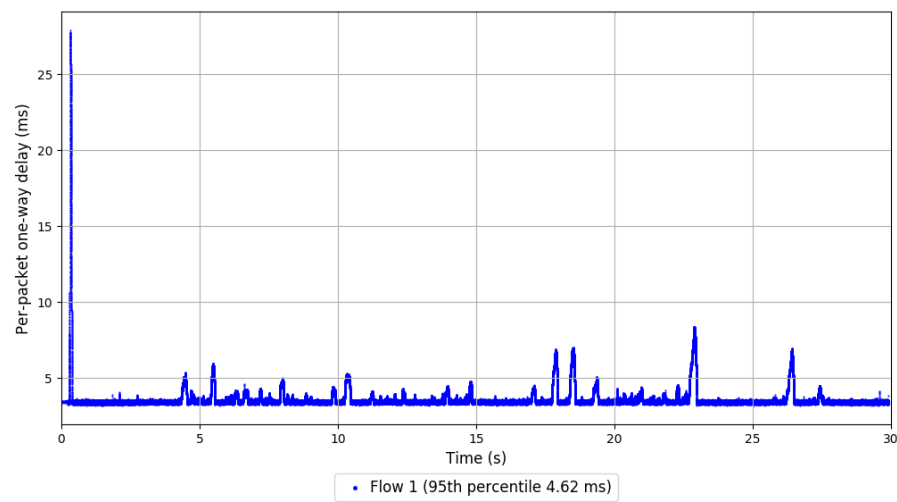
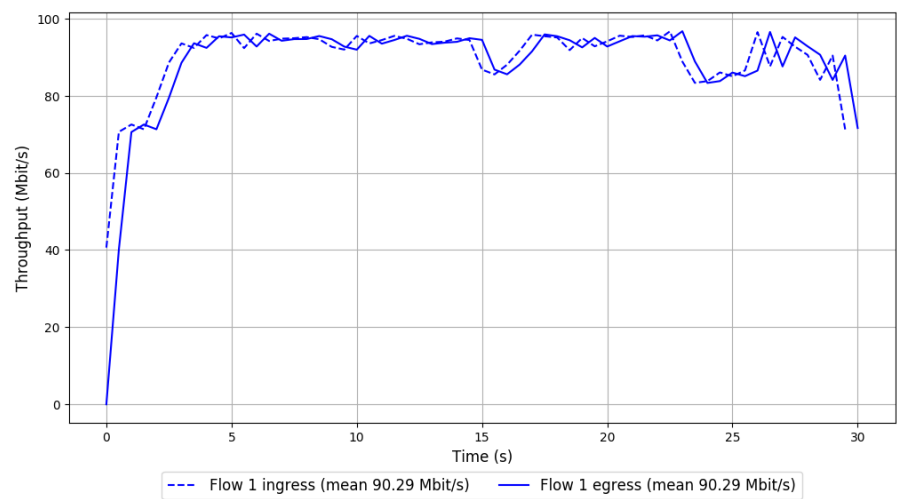
-- Flow 1:

Average throughput: 90.29 Mbit/s

95th percentile per-packet one-way delay: 4.617 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-06-27 20:30:36

End at: 2019-06-27 20:31:06

Local clock offset: -6.199 ms

Remote clock offset: 0.471 ms

# Below is generated by plot.py at 2019-06-27 21:17:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.44 Mbit/s

95th percentile per-packet one-way delay: 2.749 ms

Loss rate: 0.00%

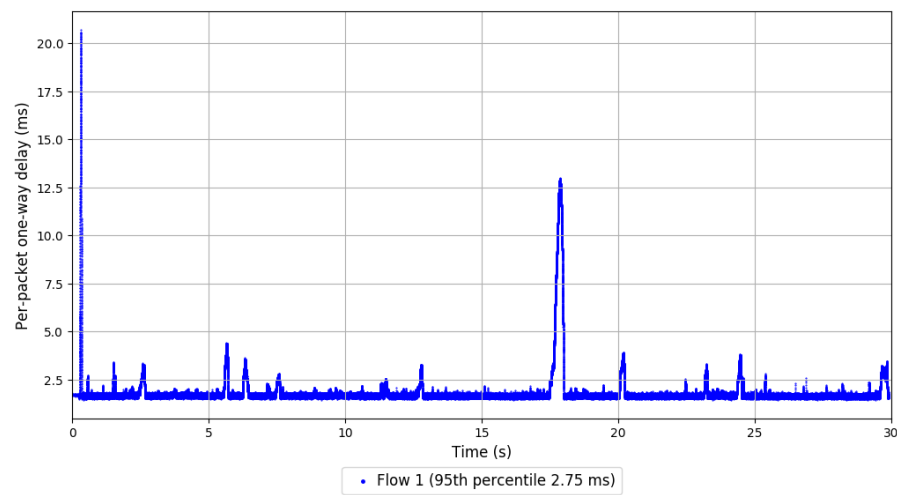
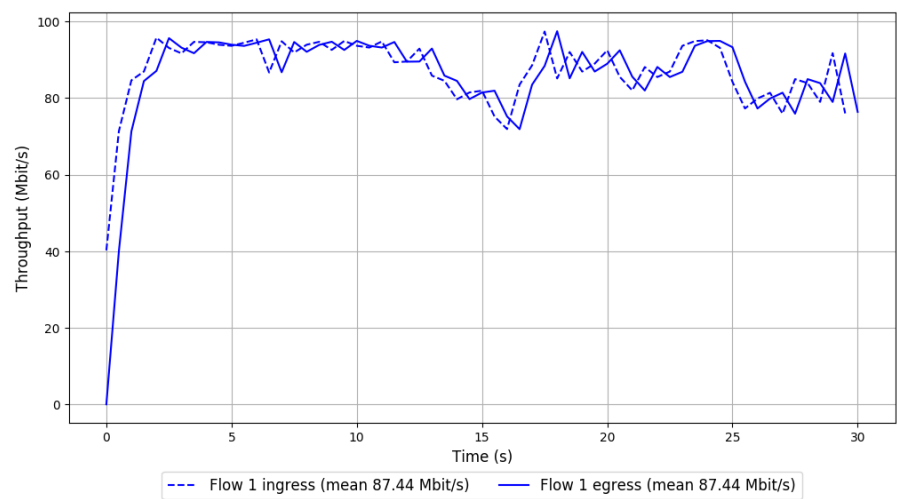
-- Flow 1:

Average throughput: 87.44 Mbit/s

95th percentile per-packet one-way delay: 2.749 ms

Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2019-06-27 20:55:10

End at: 2019-06-27 20:55:40

Local clock offset: -5.432 ms

Remote clock offset: 0.494 ms

# Below is generated by plot.py at 2019-06-27 21:17:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 2.044 ms

Loss rate: 0.00%

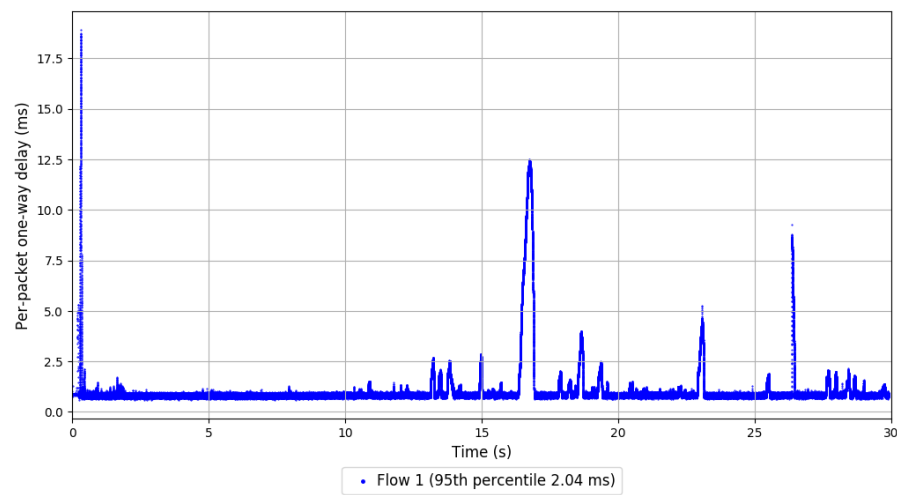
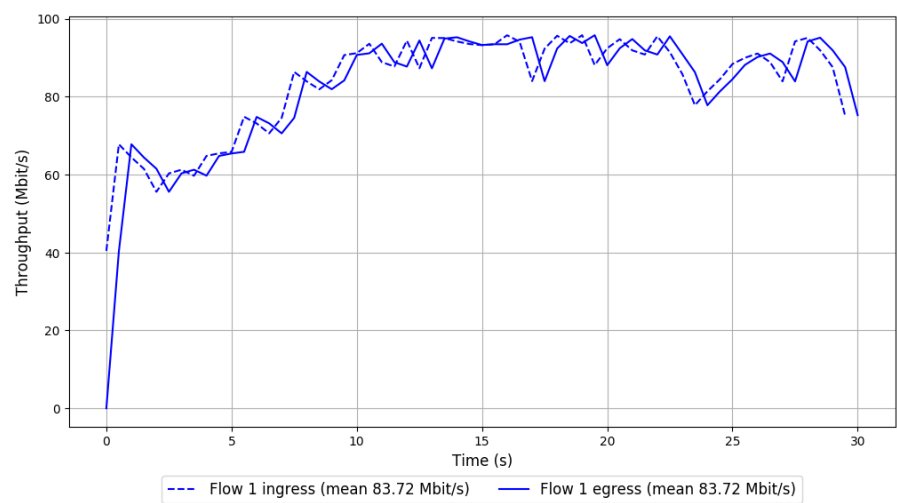
-- Flow 1:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 2.044 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

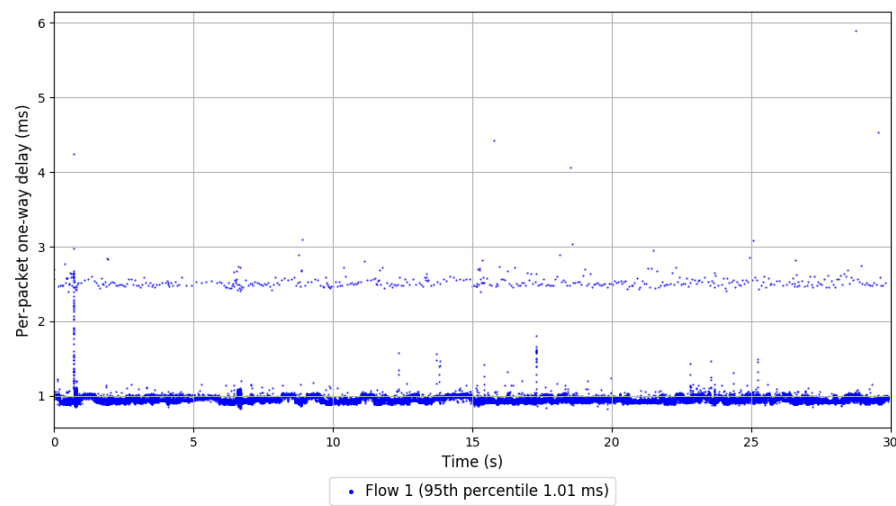
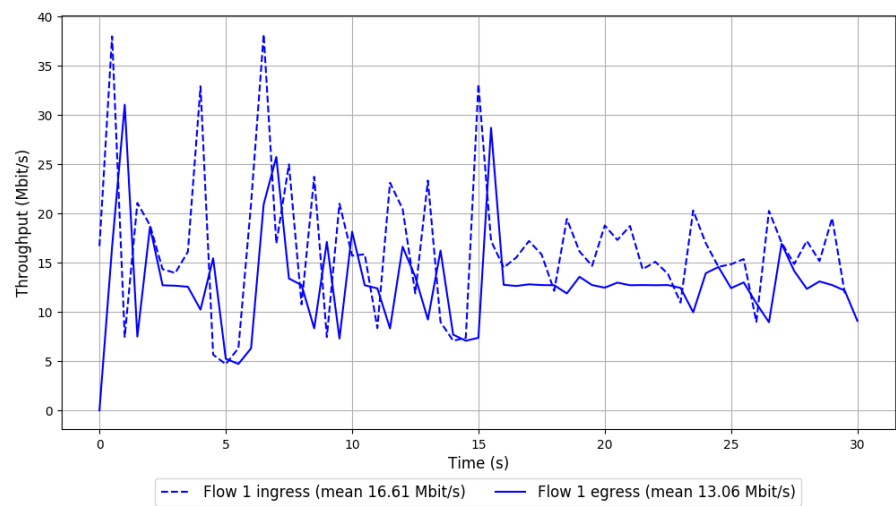


Run 1: Statistics of PCC-Expr

Start at: 2019-06-27 19:24:50  
End at: 2019-06-27 19:25:20  
Local clock offset: -5.23 ms  
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2019-06-27 21:17:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 1.015 ms  
Loss rate: 21.33%  
-- Flow 1:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 1.015 ms  
Loss rate: 21.33%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-06-27 19:49:21

End at: 2019-06-27 19:49:51

Local clock offset: -5.567 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-06-27 21:17:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.95 Mbit/s

95th percentile per-packet one-way delay: 1.837 ms

Loss rate: 27.69%

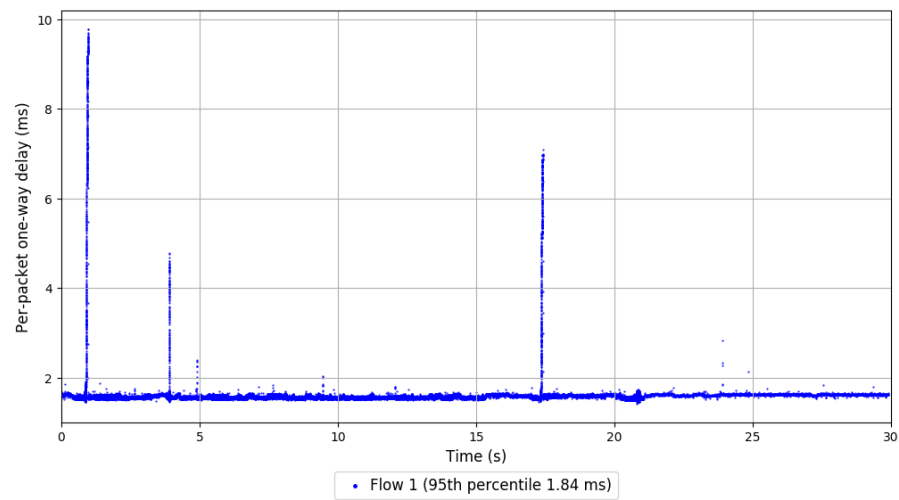
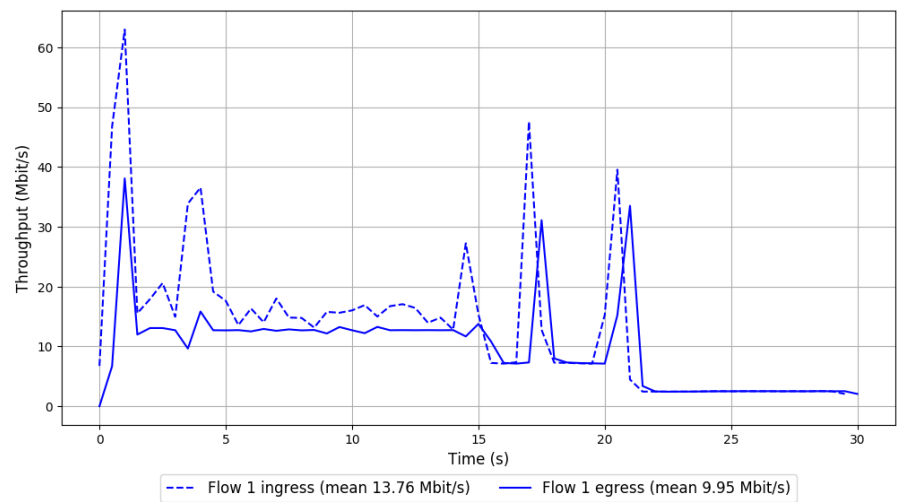
-- Flow 1:

Average throughput: 9.95 Mbit/s

95th percentile per-packet one-way delay: 1.837 ms

Loss rate: 27.69%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-06-27 20:13:52

End at: 2019-06-27 20:14:22

Local clock offset: -5.741 ms

Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2019-06-27 21:17:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 3.541 ms

Loss rate: 26.64%

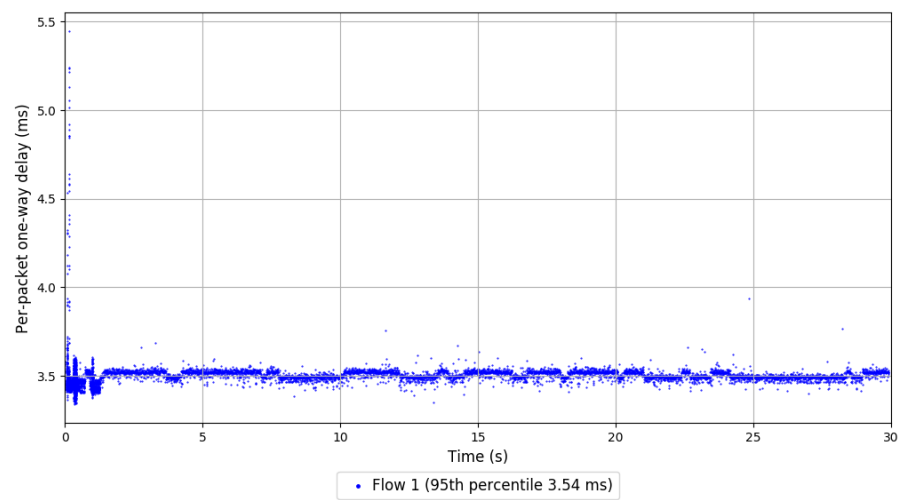
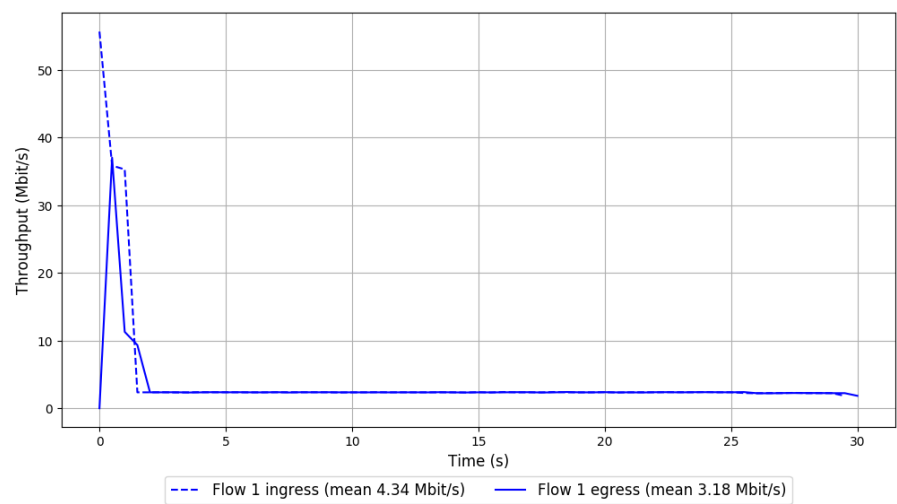
-- Flow 1:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 3.541 ms

Loss rate: 26.64%

Run 3: Report of PCC-Expr — Data Link





Run 4: Statistics of PCC-Expr

Start at: 2019-06-27 20:38:25

End at: 2019-06-27 20:38:55

Local clock offset: -5.866 ms

Remote clock offset: 0.524 ms

# Below is generated by plot.py at 2019-06-27 21:17:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.44 Mbit/s

95th percentile per-packet one-way delay: 14.234 ms

Loss rate: 32.81%

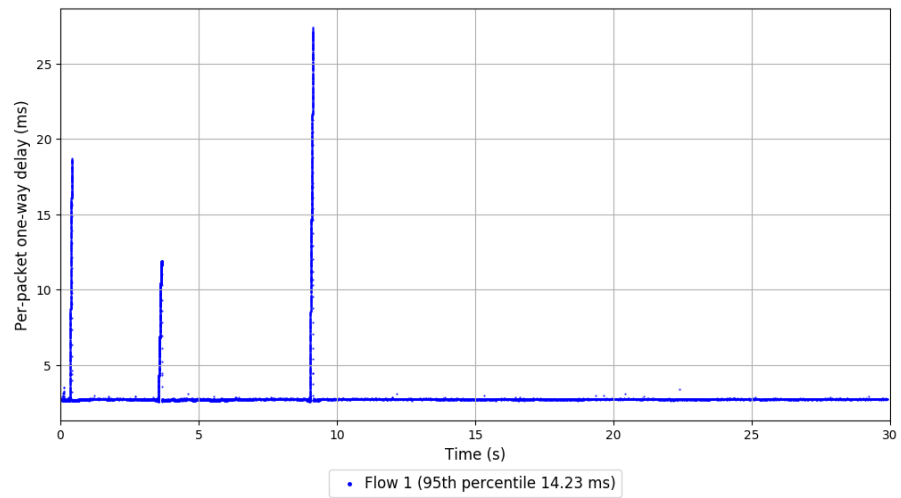
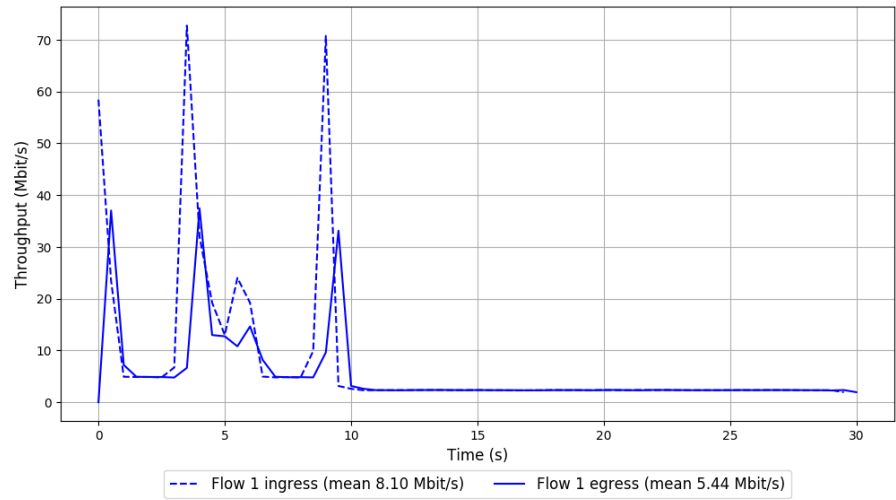
-- Flow 1:

Average throughput: 5.44 Mbit/s

95th percentile per-packet one-way delay: 14.234 ms

Loss rate: 32.81%

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



Run 5: Statistics of PCC-Expr

Start at: 2019-06-27 21:02:58

End at: 2019-06-27 21:03:28

Local clock offset: -5.293 ms

Remote clock offset: 0.551 ms

# Below is generated by plot.py at 2019-06-27 21:17:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 5.986 ms

Loss rate: 5.21%

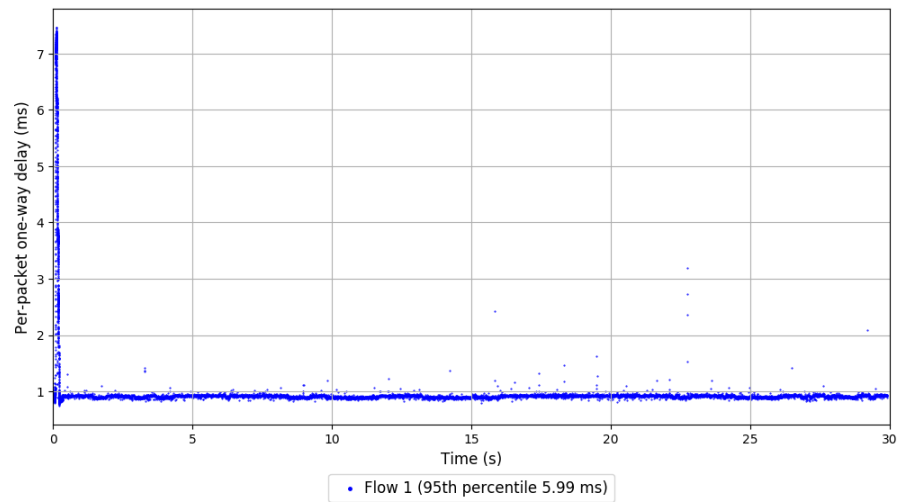
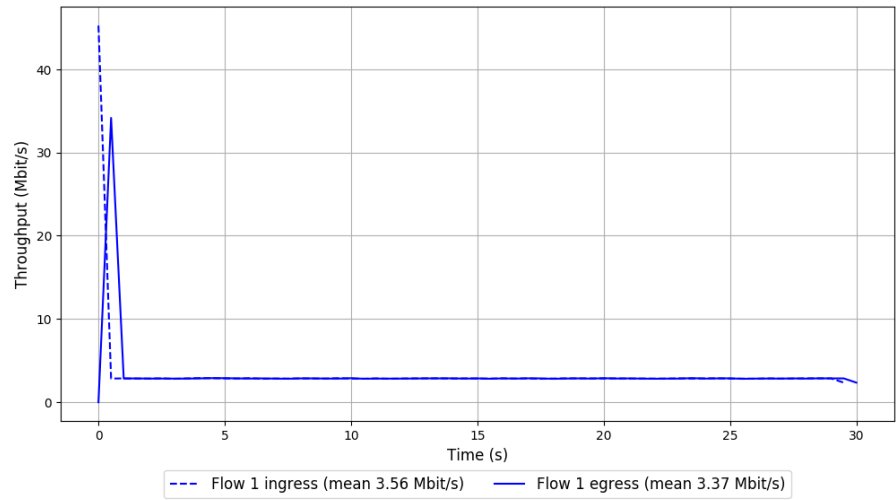
-- Flow 1:

Average throughput: 3.37 Mbit/s

95th percentile per-packet one-way delay: 5.986 ms

Loss rate: 5.21%

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



Run 1: Statistics of QUIC Cubic

Start at: 2019-06-27 19:18:08

End at: 2019-06-27 19:18:38

Local clock offset: -6.389 ms

Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2019-06-27 21:17:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.28 Mbit/s

95th percentile per-packet one-way delay: 2.298 ms

Loss rate: 0.35%

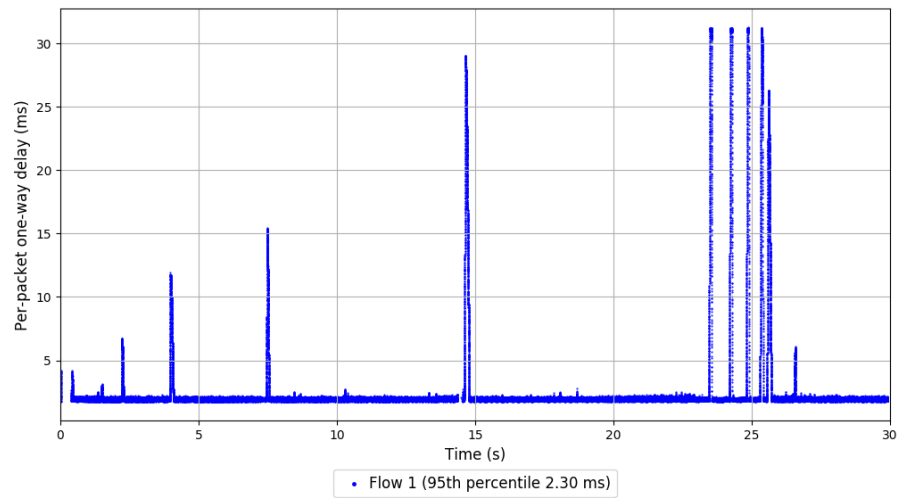
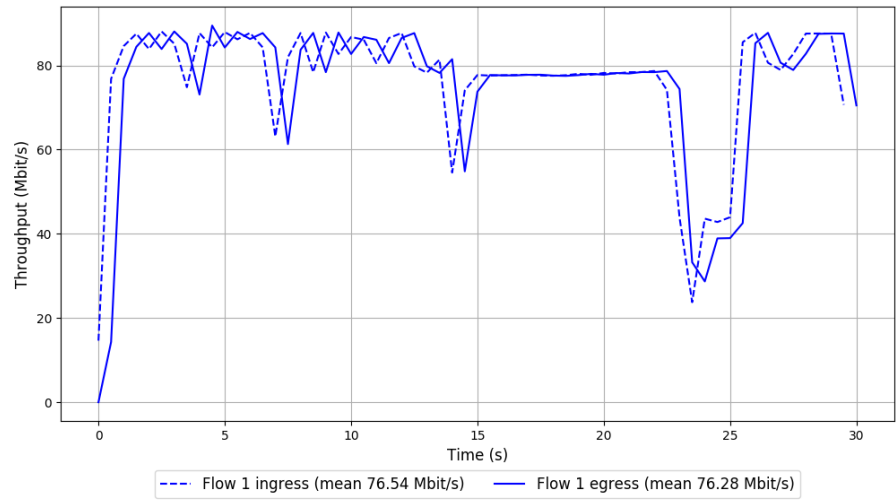
-- Flow 1:

Average throughput: 76.28 Mbit/s

95th percentile per-packet one-way delay: 2.298 ms

Loss rate: 0.35%

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

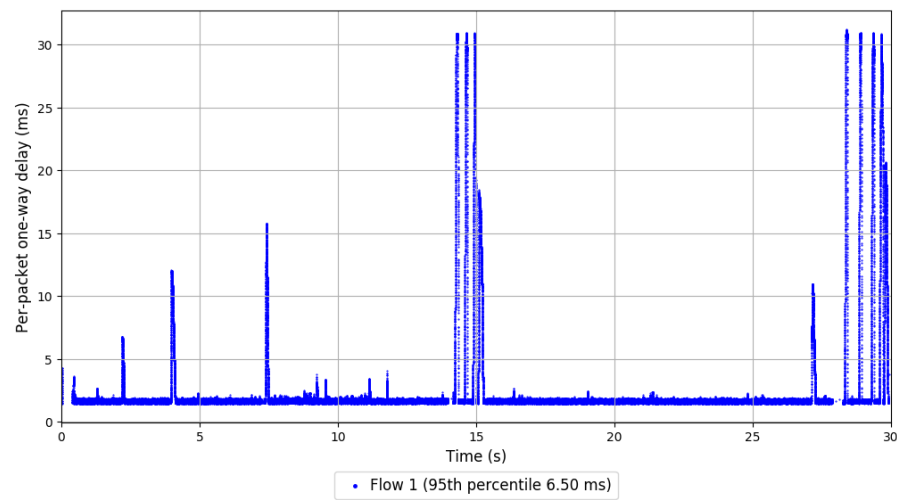
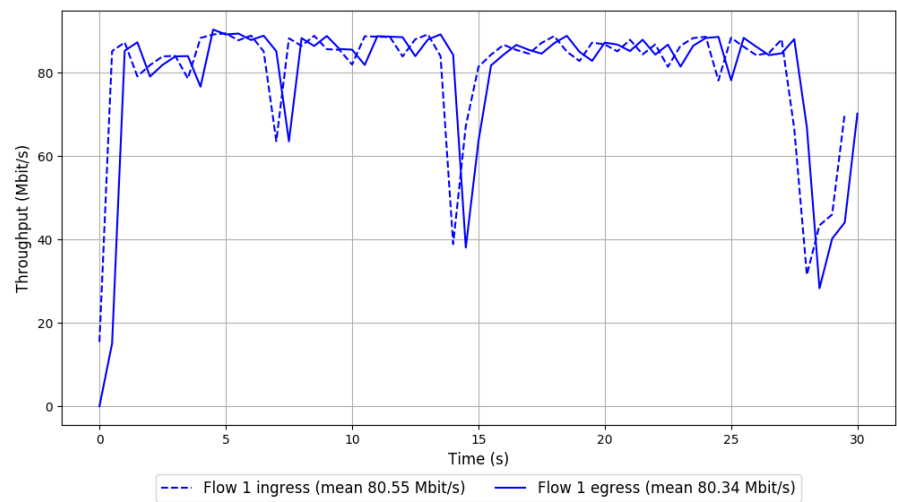


Run 2: Statistics of QUIC Cubic

Start at: 2019-06-27 19:42:41  
End at: 2019-06-27 19:43:11  
Local clock offset: -5.602 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-06-27 21:18:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.34 Mbit/s  
95th percentile per-packet one-way delay: 6.497 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 80.34 Mbit/s  
95th percentile per-packet one-way delay: 6.497 ms  
Loss rate: 0.26%

Run 2: Report of QUIC Cubic — Data Link





Run 3: Statistics of QUIC Cubic

Start at: 2019-06-27 20:07:12

End at: 2019-06-27 20:07:42

Local clock offset: -5.561 ms

Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2019-06-27 21:18:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.27 Mbit/s

95th percentile per-packet one-way delay: 4.187 ms

Loss rate: 0.29%

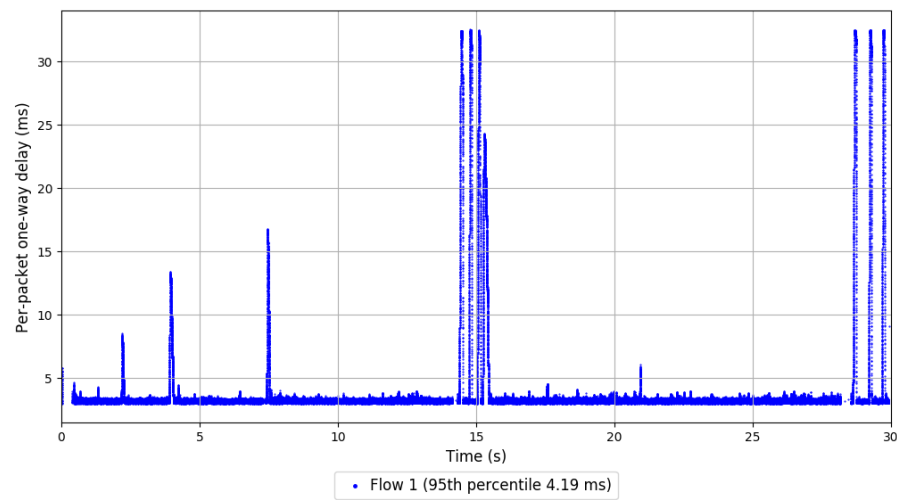
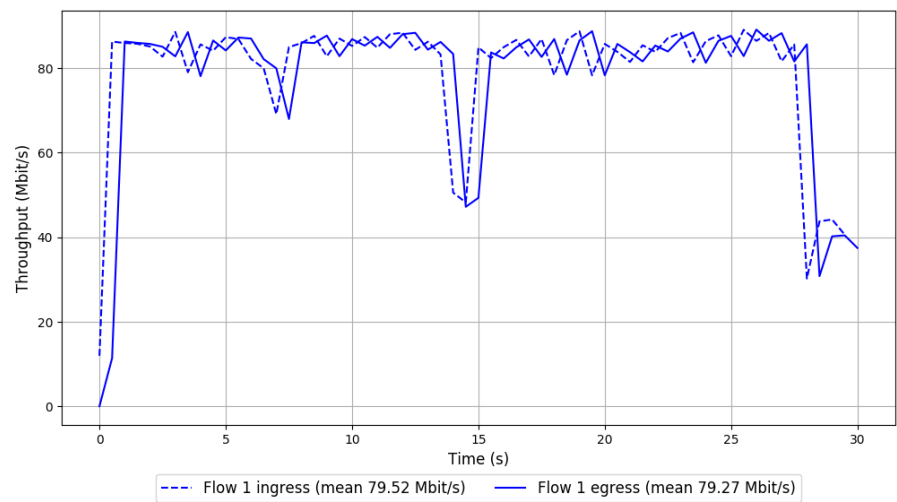
-- Flow 1:

Average throughput: 79.27 Mbit/s

95th percentile per-packet one-way delay: 4.187 ms

Loss rate: 0.29%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-06-27 20:31:43

End at: 2019-06-27 20:32:13

Local clock offset: -6.477 ms

Remote clock offset: 0.456 ms

# Below is generated by plot.py at 2019-06-27 21:18:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 3.731 ms

Loss rate: 0.22%

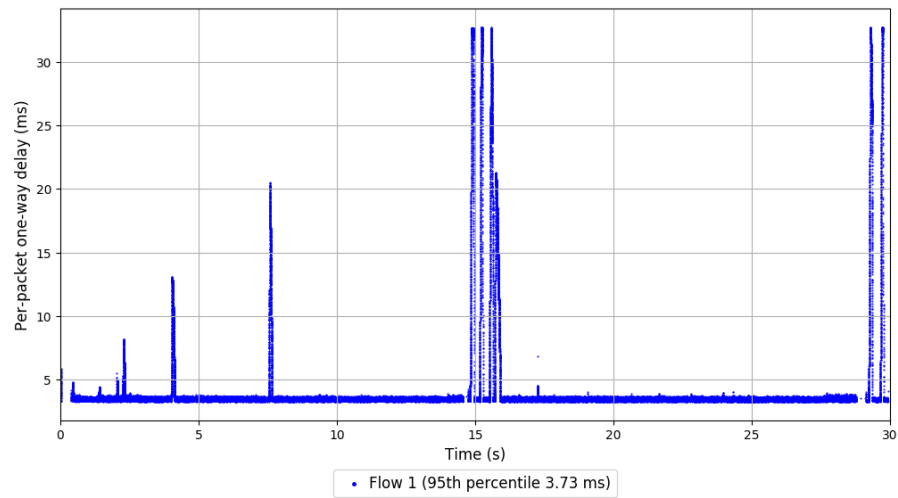
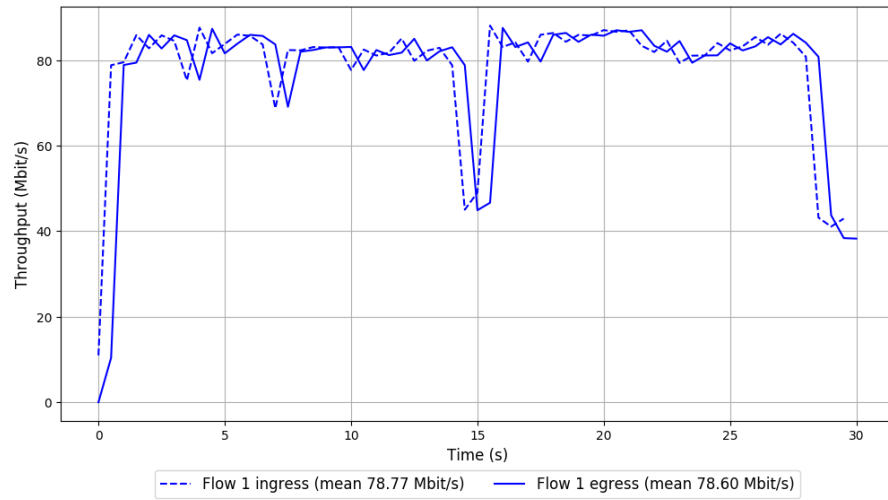
-- Flow 1:

Average throughput: 78.60 Mbit/s

95th percentile per-packet one-way delay: 3.731 ms

Loss rate: 0.22%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-06-27 20:56:17

End at: 2019-06-27 20:56:47

Local clock offset: -6.258 ms

Remote clock offset: 0.549 ms

# Below is generated by plot.py at 2019-06-27 21:18:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 4.181 ms

Loss rate: 0.31%

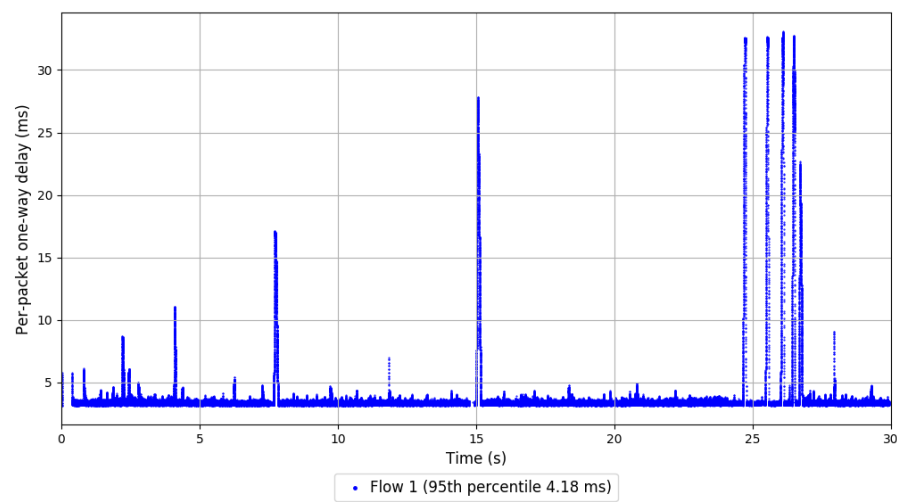
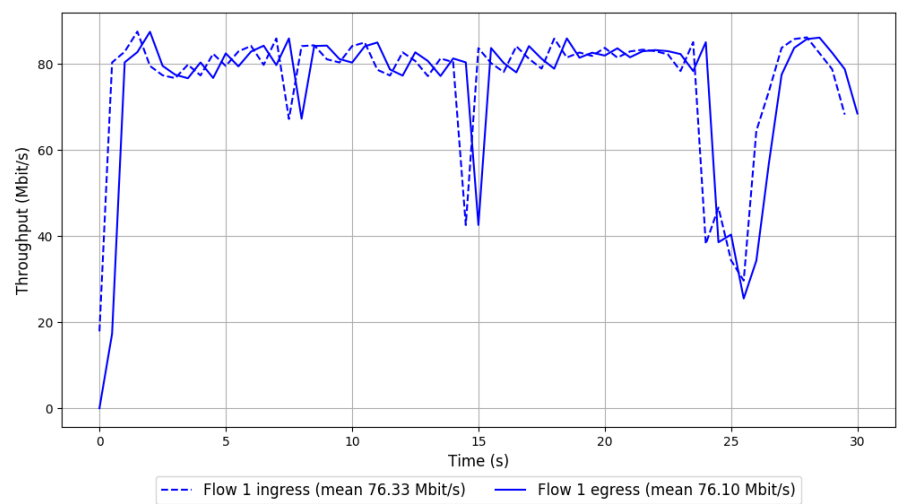
-- Flow 1:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 4.181 ms

Loss rate: 0.31%

Run 5: Report of QUIC Cubic — Data Link

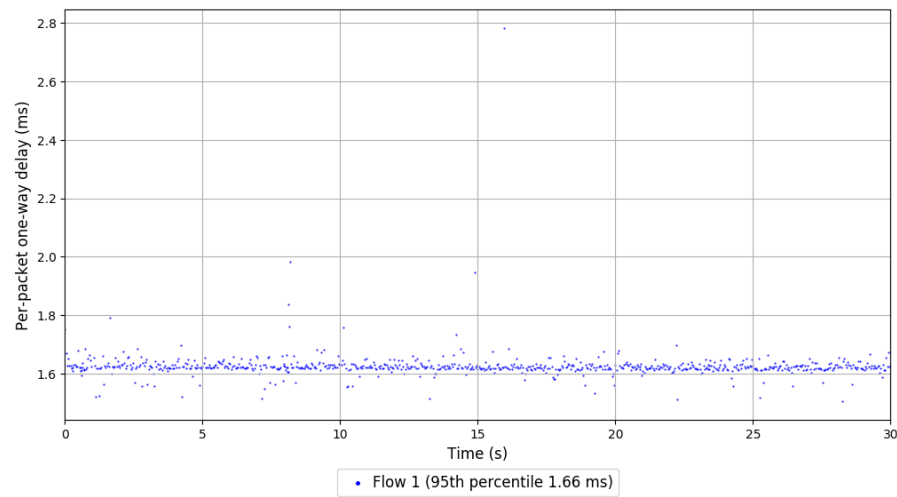
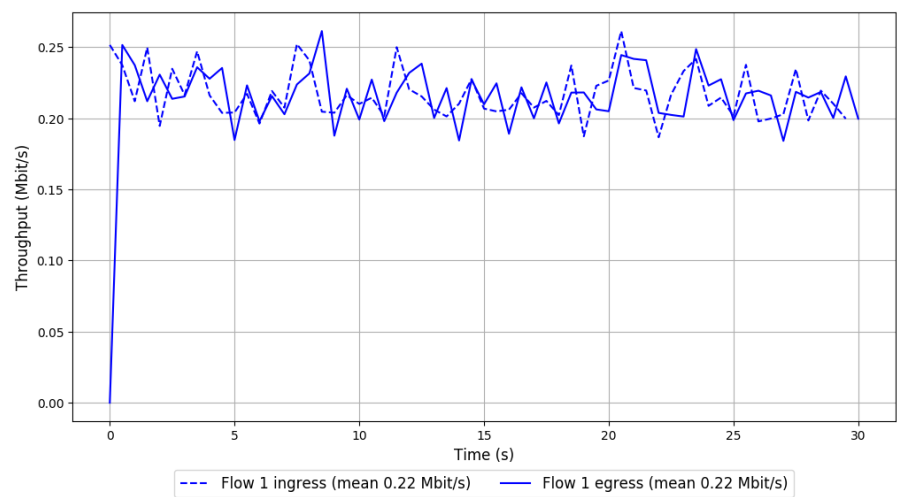


Run 1: Statistics of SCReAM

Start at: 2019-06-27 19:14:49  
End at: 2019-06-27 19:15:19  
Local clock offset: -6.195 ms  
Remote clock offset: -0.558 ms

# Below is generated by plot.py at 2019-06-27 21:18:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.659 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.659 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link





Run 2: Statistics of SReAM

Start at: 2019-06-27 19:39:22

End at: 2019-06-27 19:39:52

Local clock offset: -5.652 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-06-27 21:18:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.641 ms

Loss rate: 0.00%

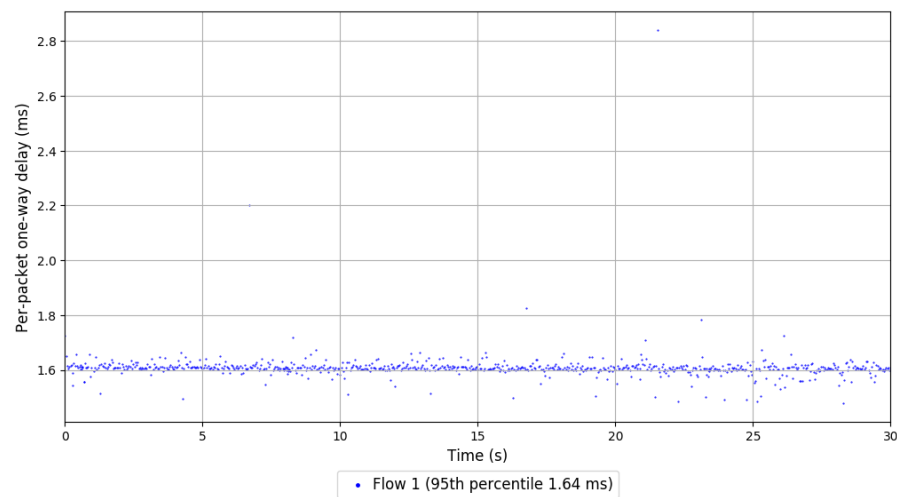
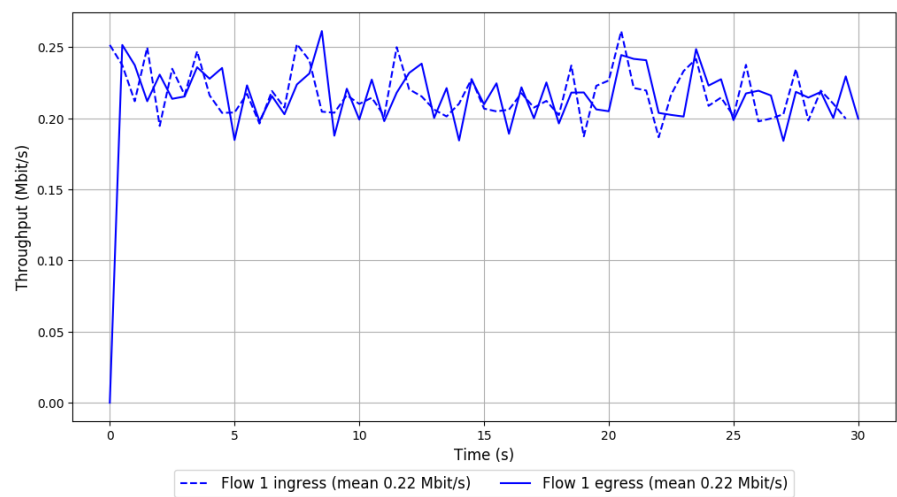
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.641 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-06-27 20:03:53

End at: 2019-06-27 20:04:23

Local clock offset: -5.577 ms

Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2019-06-27 21:18:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.218 ms

Loss rate: 0.00%

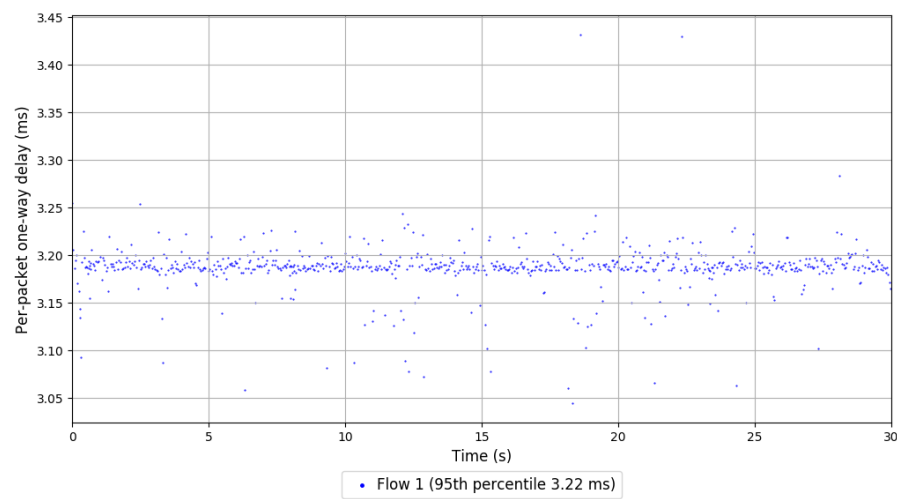
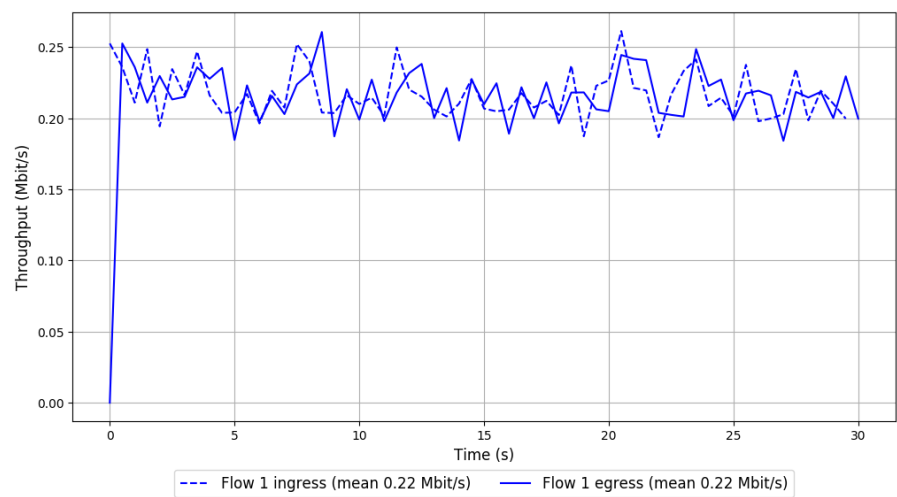
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 3.218 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-06-27 20:28:24

End at: 2019-06-27 20:28:54

Local clock offset: -5.345 ms

Remote clock offset: 0.487 ms

# Below is generated by plot.py at 2019-06-27 21:18:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.622 ms

Loss rate: 0.00%

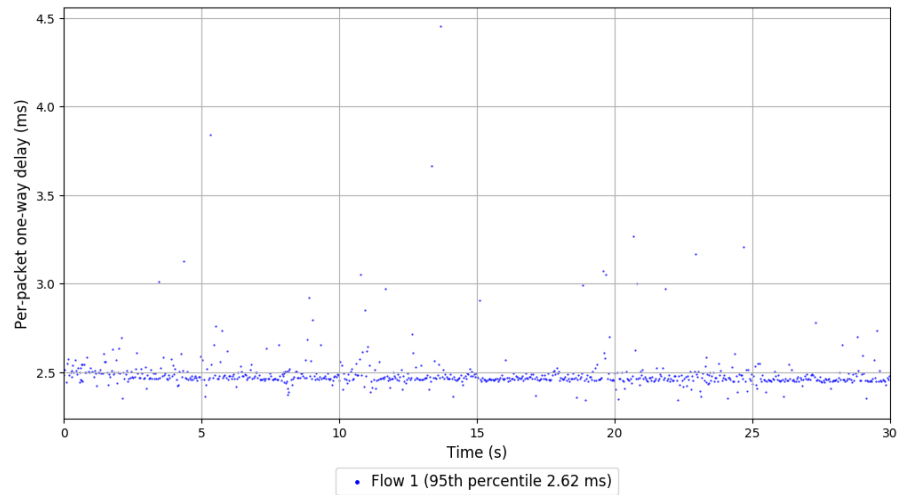
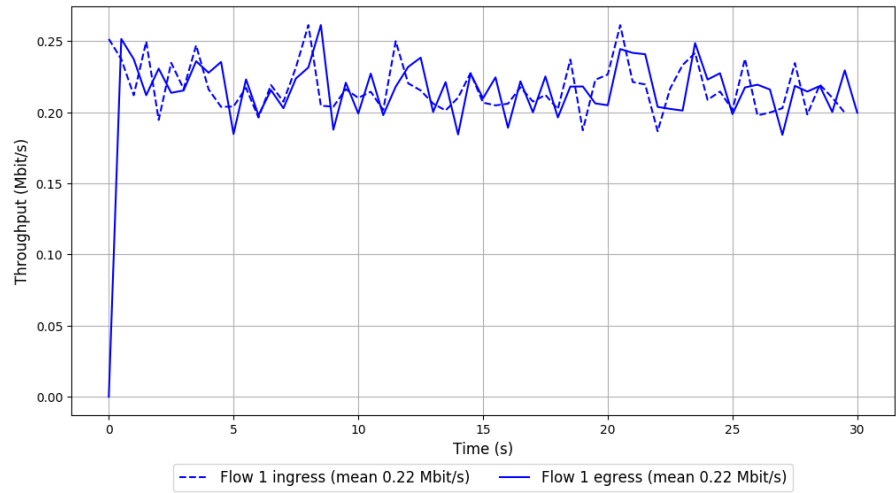
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.622 ms

Loss rate: 0.00%

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



Run 5: Statistics of SCReAM

Start at: 2019-06-27 20:52:57

End at: 2019-06-27 20:53:27

Local clock offset: -6.345 ms

Remote clock offset: 0.515 ms

# Below is generated by plot.py at 2019-06-27 21:18:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.764 ms

Loss rate: 0.00%

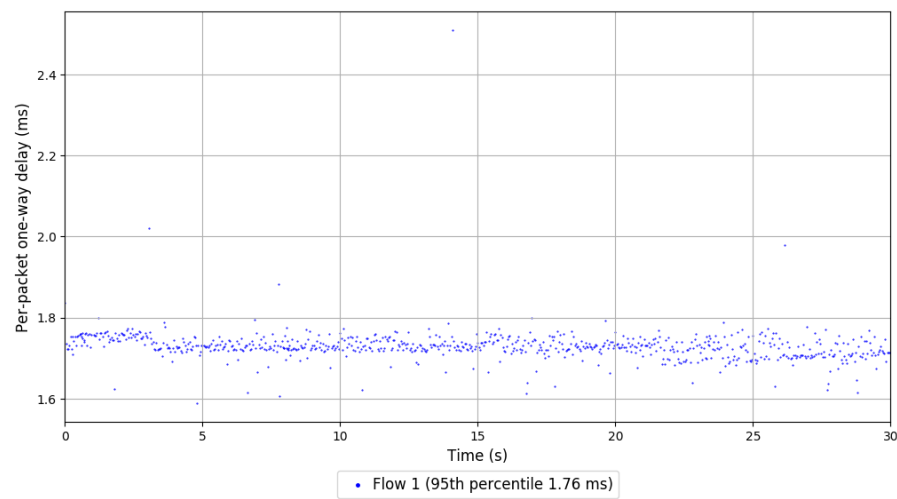
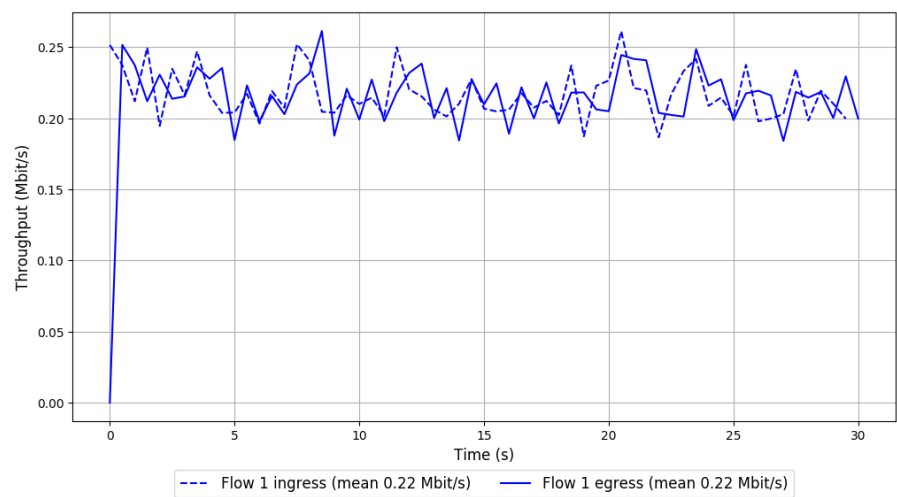
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.764 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



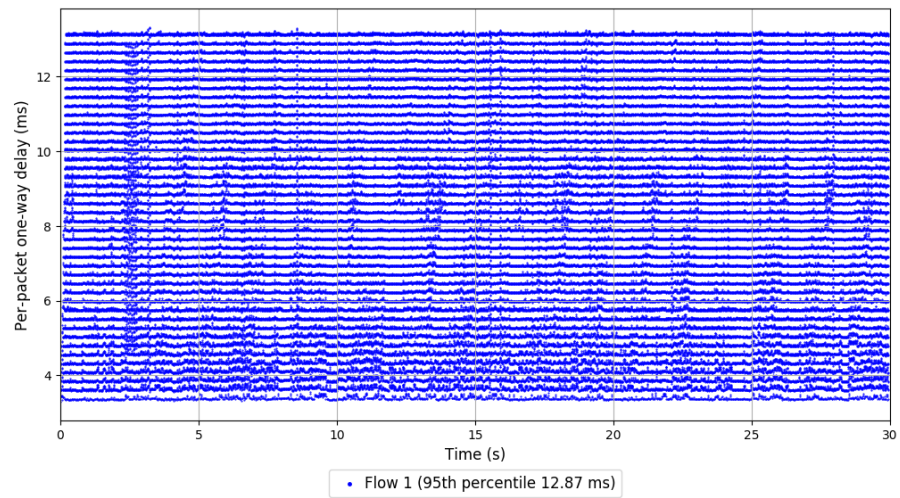
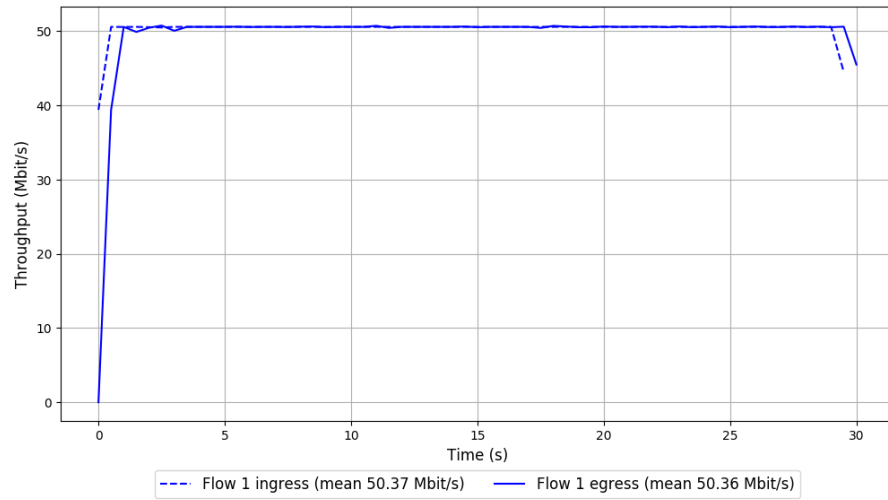


Run 1: Statistics of Sprout

Start at: 2019-06-27 19:20:24  
End at: 2019-06-27 19:20:54  
Local clock offset: -6.313 ms  
Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2019-06-27 21:18:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 12.870 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 12.870 ms  
Loss rate: 0.00%

# Run 1: Report of Sprout — Data Link

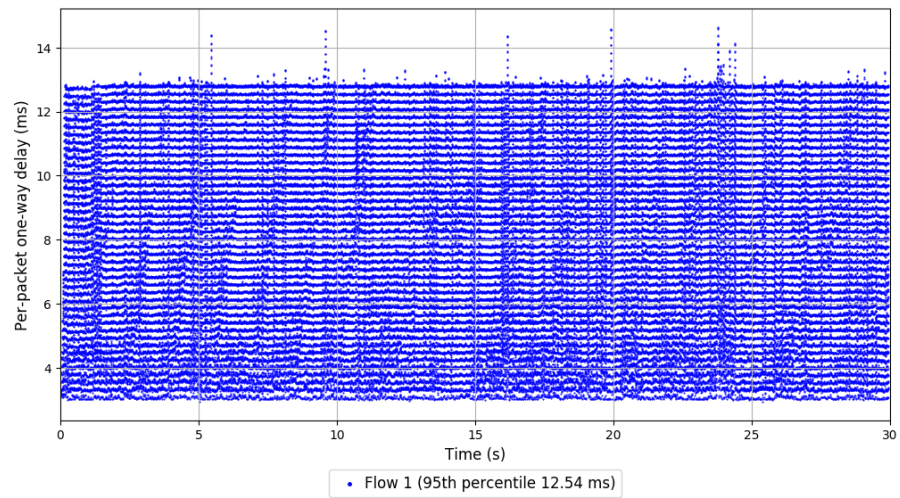
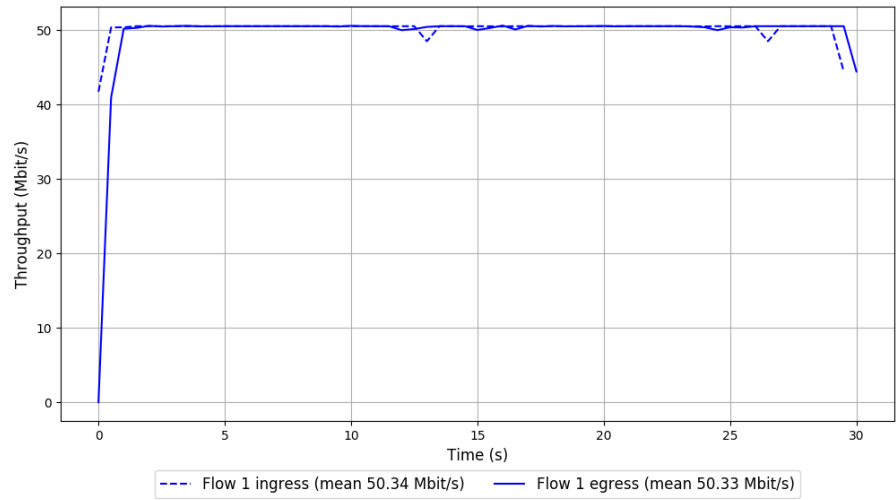


Run 2: Statistics of Sprout

Start at: 2019-06-27 19:44:57  
End at: 2019-06-27 19:45:27  
Local clock offset: -5.593 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-06-27 21:18:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.33 Mbit/s  
95th percentile per-packet one-way delay: 12.544 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.33 Mbit/s  
95th percentile per-packet one-way delay: 12.544 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-06-27 20:09:28

End at: 2019-06-27 20:09:58

Local clock offset: -5.051 ms

Remote clock offset: 0.277 ms

# Below is generated by plot.py at 2019-06-27 21:18:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 12.173 ms

Loss rate: 0.00%

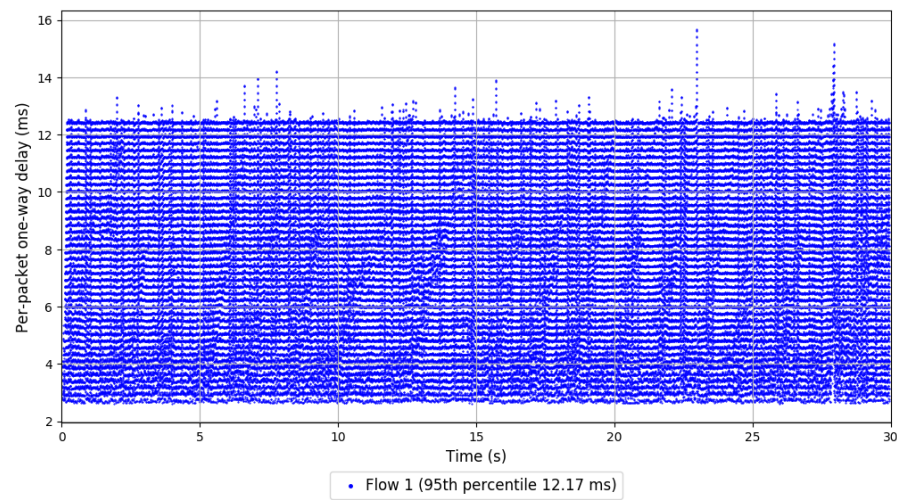
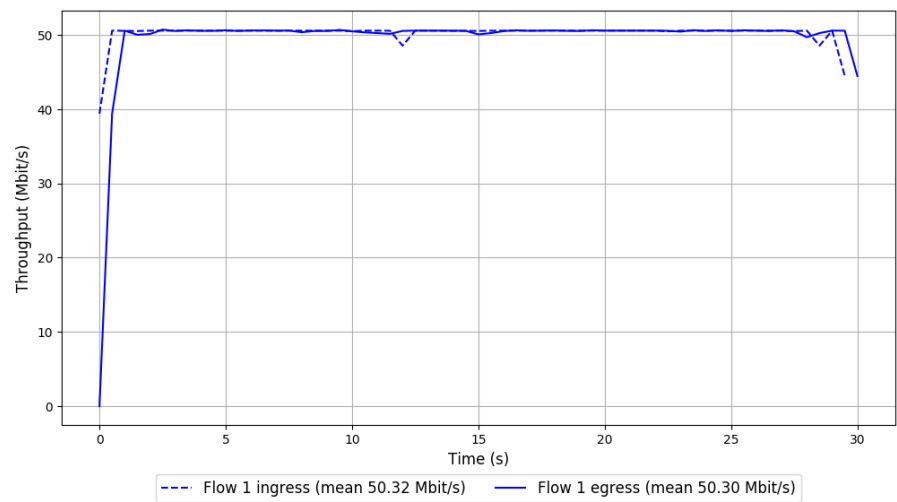
-- Flow 1:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 12.173 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-06-27 20:33:59

End at: 2019-06-27 20:34:29

Local clock offset: -5.498 ms

Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2019-06-27 21:18:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 11.825 ms

Loss rate: 0.00%

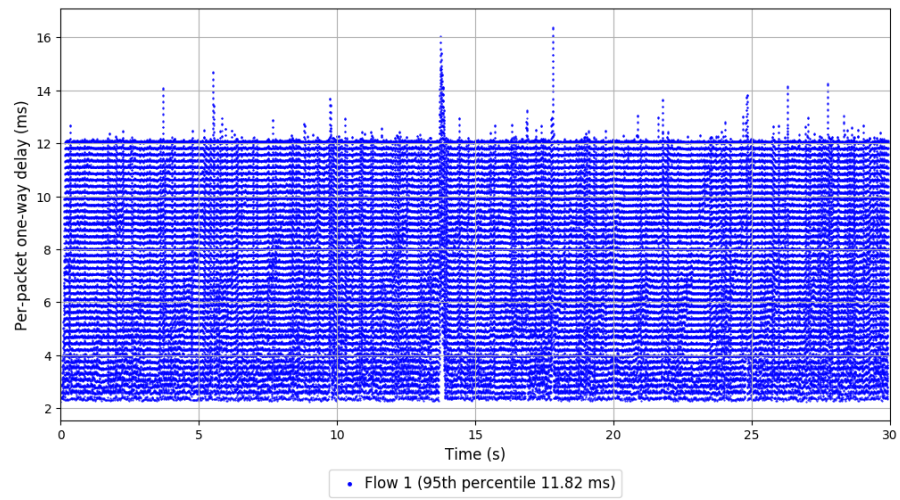
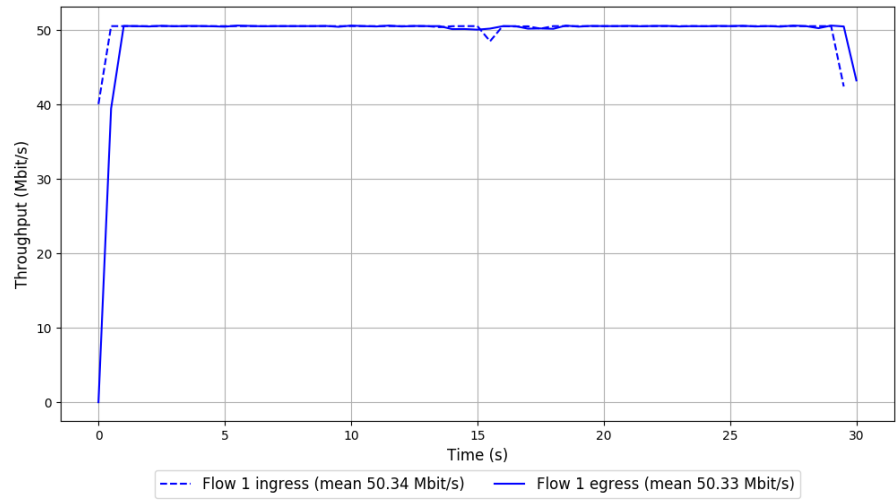
-- Flow 1:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 11.825 ms

Loss rate: 0.00%

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



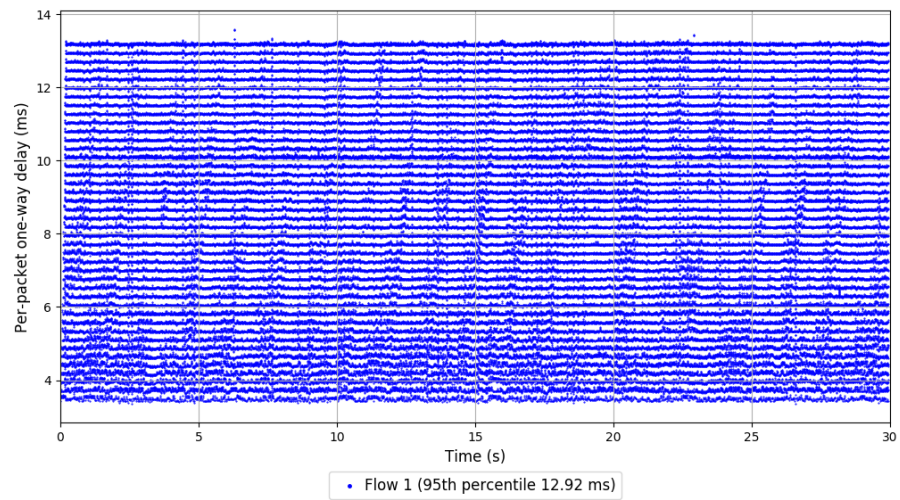
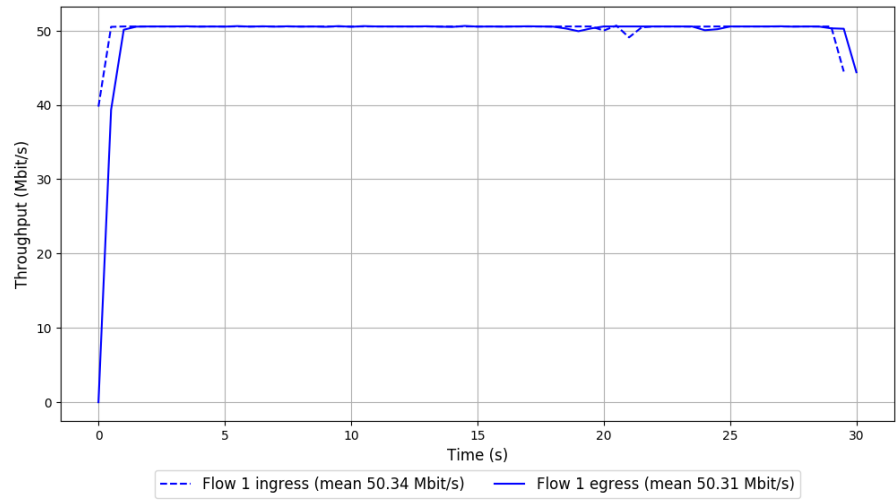


Run 5: Statistics of Sprout

Start at: 2019-06-27 20:58:32  
End at: 2019-06-27 20:59:02  
Local clock offset: -6.431 ms  
Remote clock offset: 0.531 ms

# Below is generated by plot.py at 2019-06-27 21:18:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.31 Mbit/s  
95th percentile per-packet one-way delay: 12.919 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 50.31 Mbit/s  
95th percentile per-packet one-way delay: 12.919 ms  
Loss rate: 0.05%

## Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

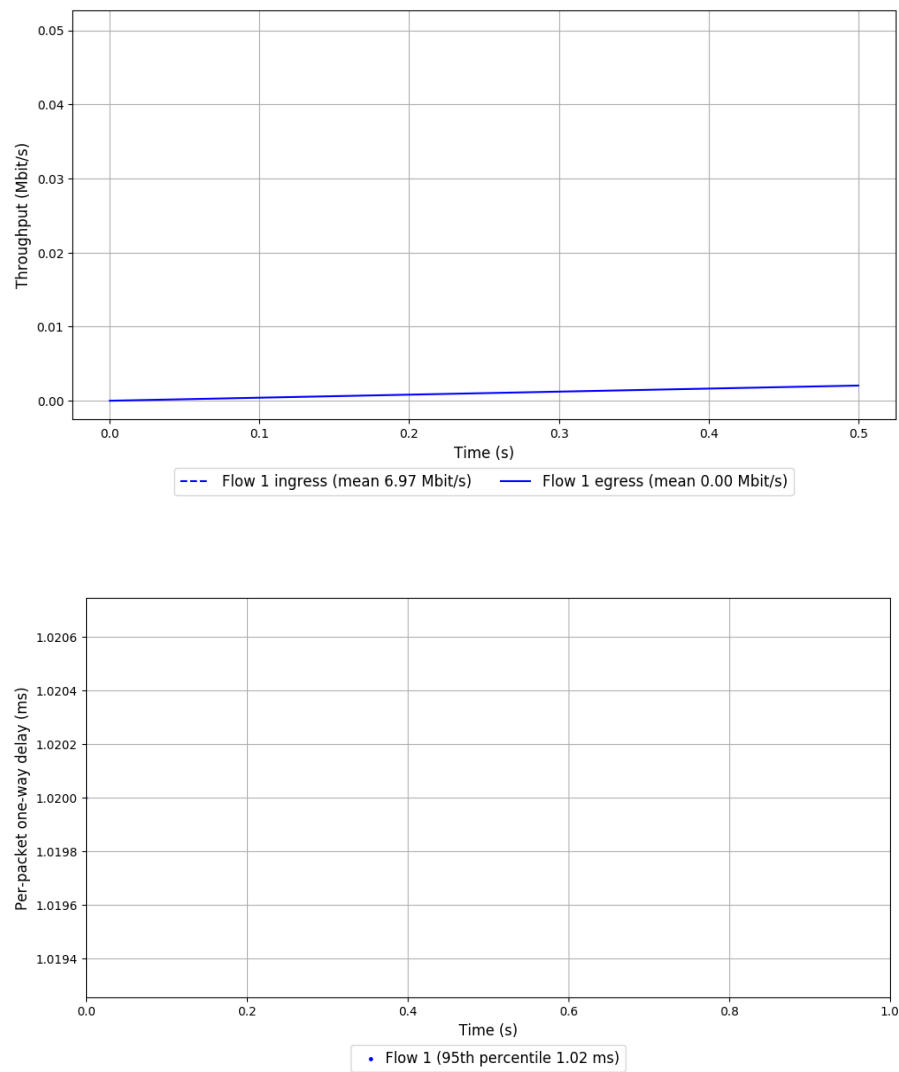
Start at: 2019-06-27 19:23:45

End at: 2019-06-27 19:24:15

Local clock offset: -5.202 ms

Remote clock offset: -0.324 ms

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



Run 2: Statistics of TaoVA-100x

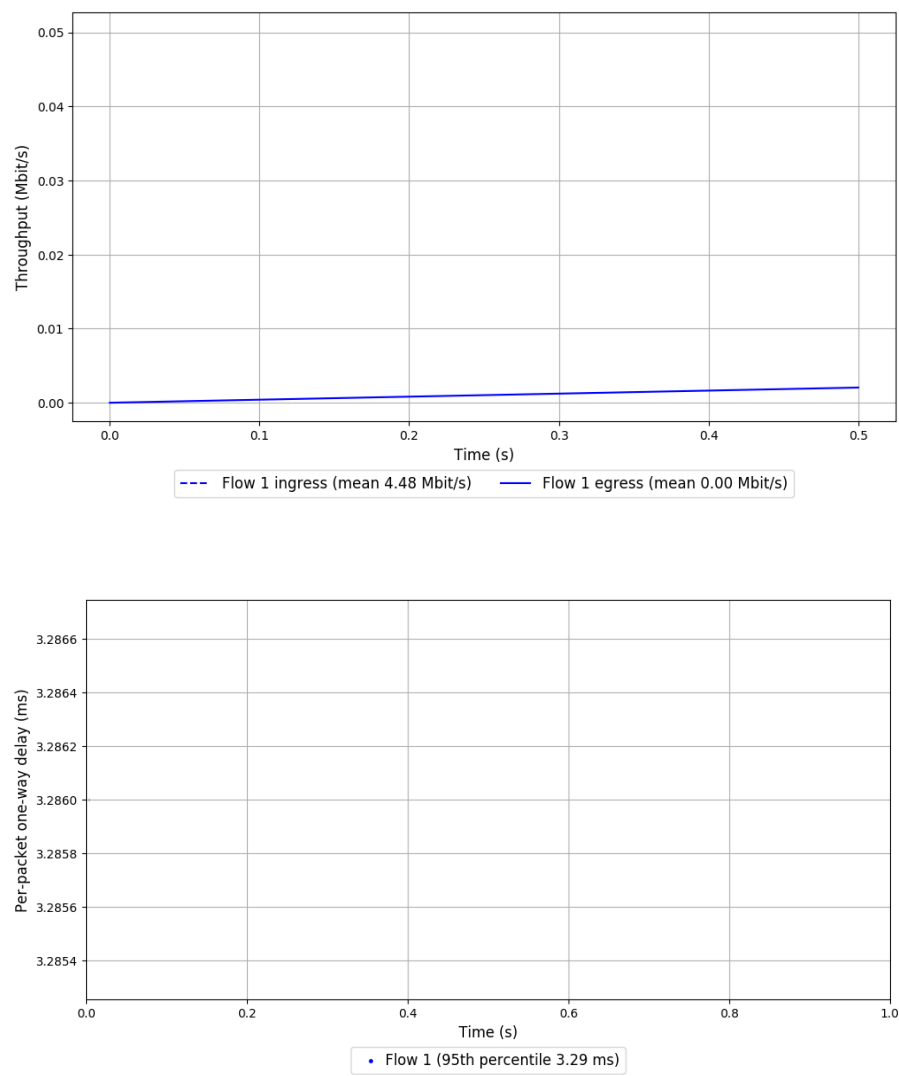
Start at: 2019-06-27 19:48:16

End at: 2019-06-27 19:48:46

Local clock offset: -5.54 ms

Remote clock offset: 0.034 ms

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



Run 3: Statistics of TaoVA-100x

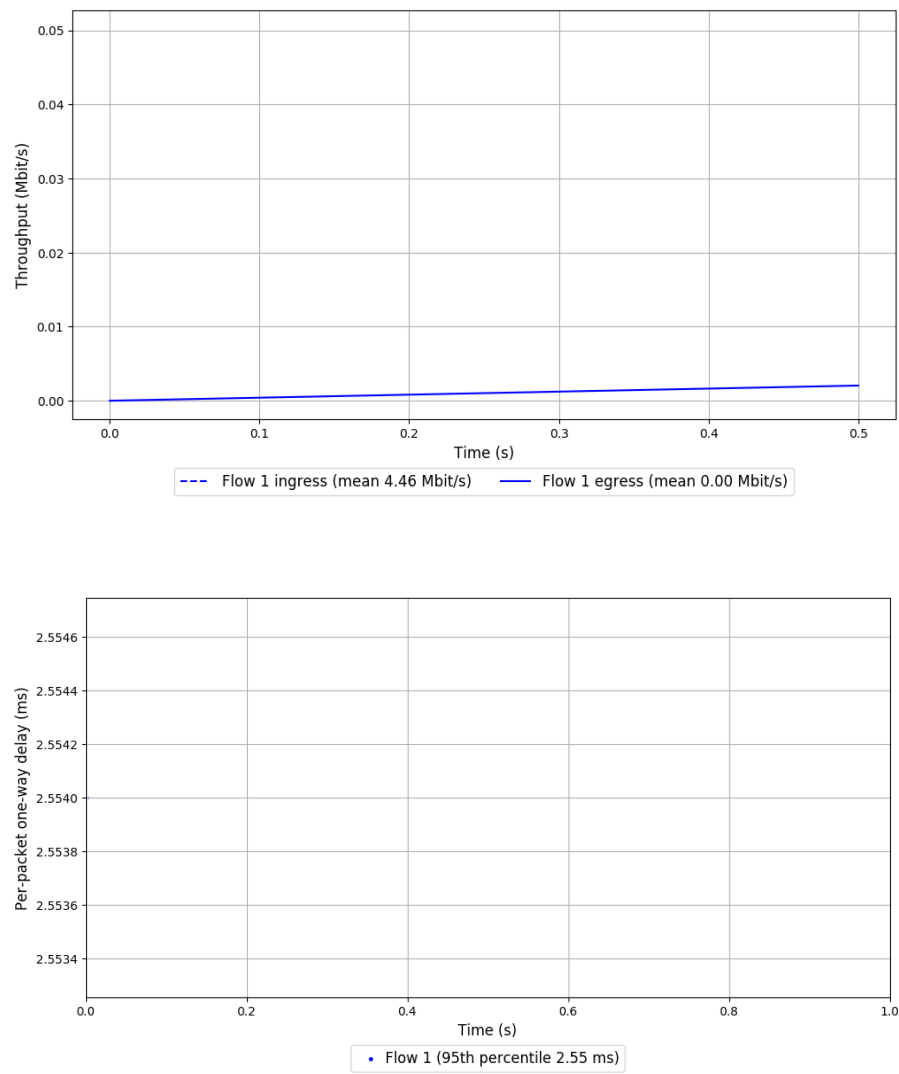
Start at: 2019-06-27 20:12:48

End at: 2019-06-27 20:13:18

Local clock offset: -4.737 ms

Remote clock offset: 0.354 ms

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





Run 4: Statistics of TaoVA-100x

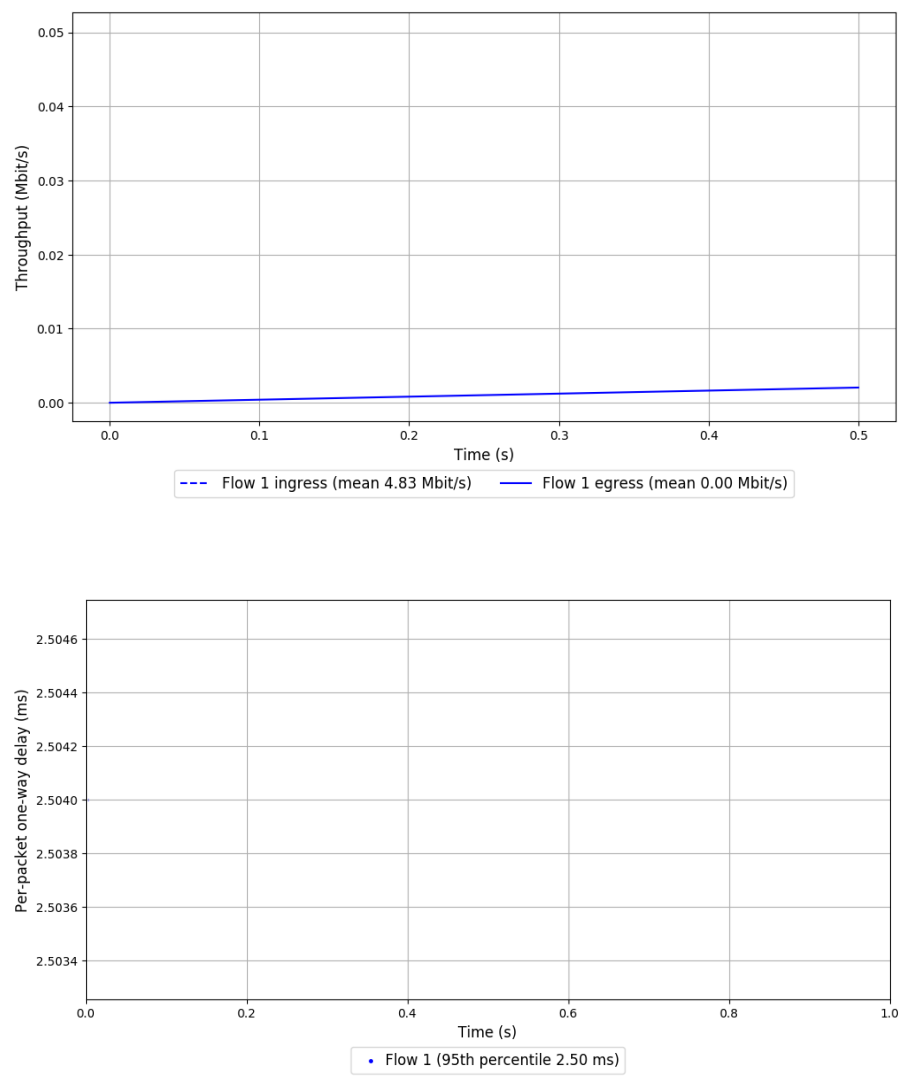
Start at: 2019-06-27 20:37:20

End at: 2019-06-27 20:37:50

Local clock offset: -5.579 ms

Remote clock offset: 0.449 ms

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



Run 5: Statistics of TaoVA-100x

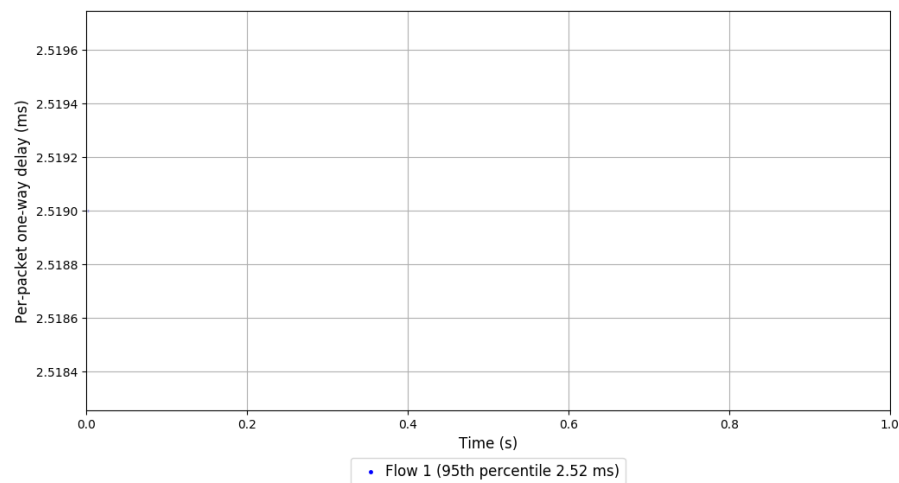
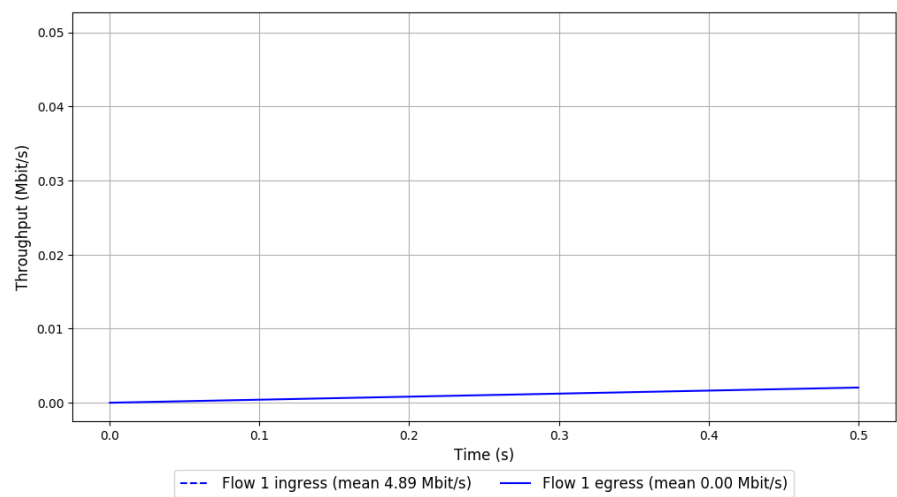
Start at: 2019-06-27 21:01:54

End at: 2019-06-27 21:02:24

Local clock offset: -5.369 ms

Remote clock offset: 0.505 ms

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

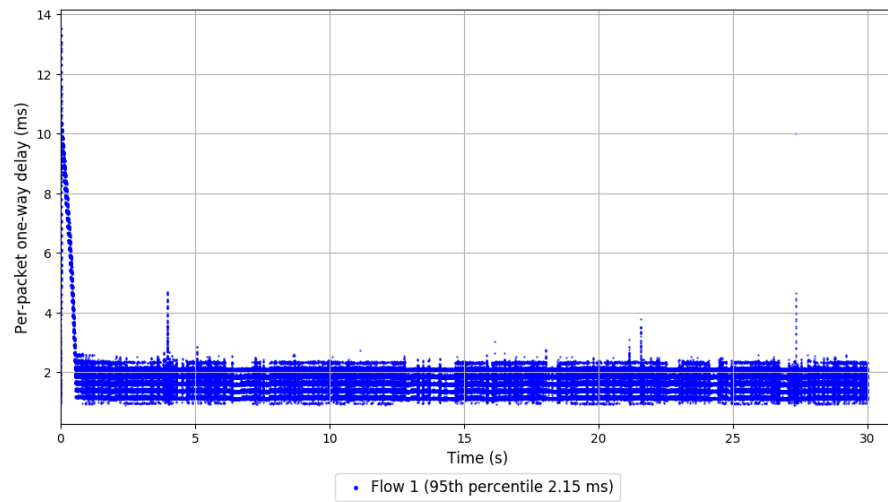
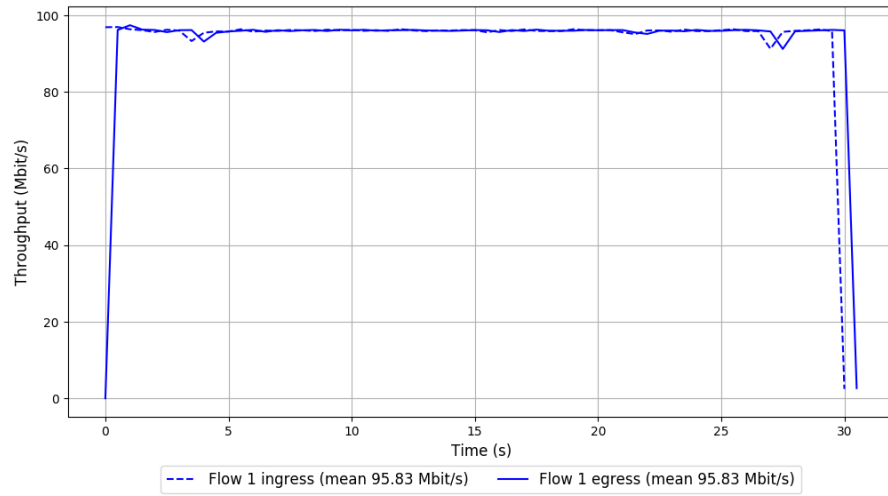


Run 1: Statistics of TCP Vegas

Start at: 2019-06-27 19:15:53  
End at: 2019-06-27 19:16:23  
Local clock offset: -5.622 ms  
Remote clock offset: -0.528 ms

# Below is generated by plot.py at 2019-06-27 21:19:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.83 Mbit/s  
95th percentile per-packet one-way delay: 2.151 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 95.83 Mbit/s  
95th percentile per-packet one-way delay: 2.151 ms  
Loss rate: 0.00%

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

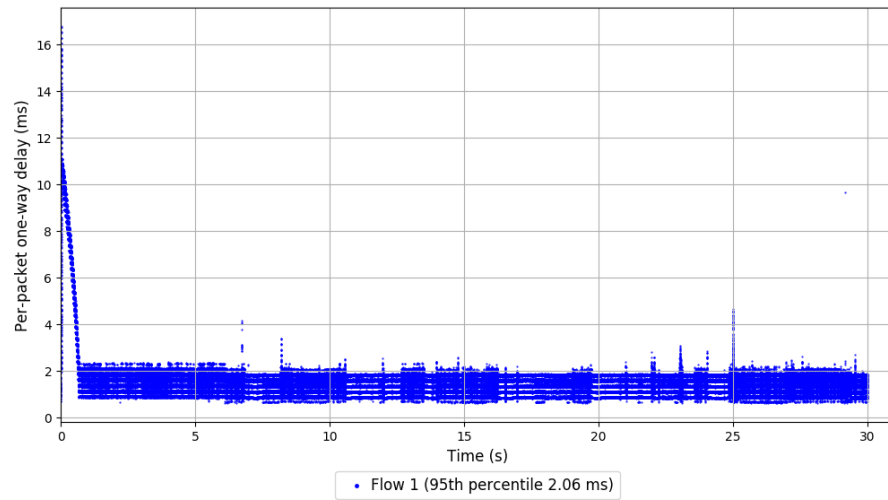
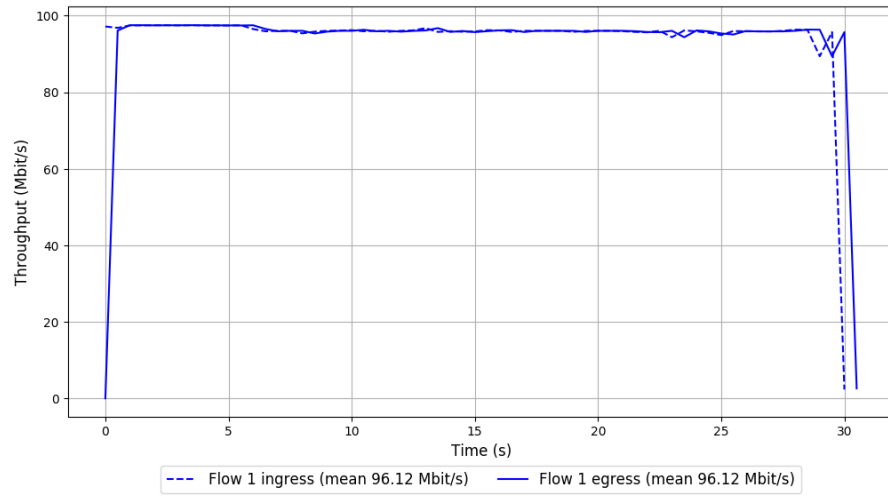


Run 2: Statistics of TCP Vegas

Start at: 2019-06-27 19:40:26  
End at: 2019-06-27 19:40:56  
Local clock offset: -4.833 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-06-27 21:19:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.12 Mbit/s  
95th percentile per-packet one-way delay: 2.061 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.12 Mbit/s  
95th percentile per-packet one-way delay: 2.061 ms  
Loss rate: 0.00%

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





Run 3: Statistics of TCP Vegas

Start at: 2019-06-27 20:04:57

End at: 2019-06-27 20:05:27

Local clock offset: -5.084 ms

Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2019-06-27 21:19:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 2.454 ms

Loss rate: 0.00%

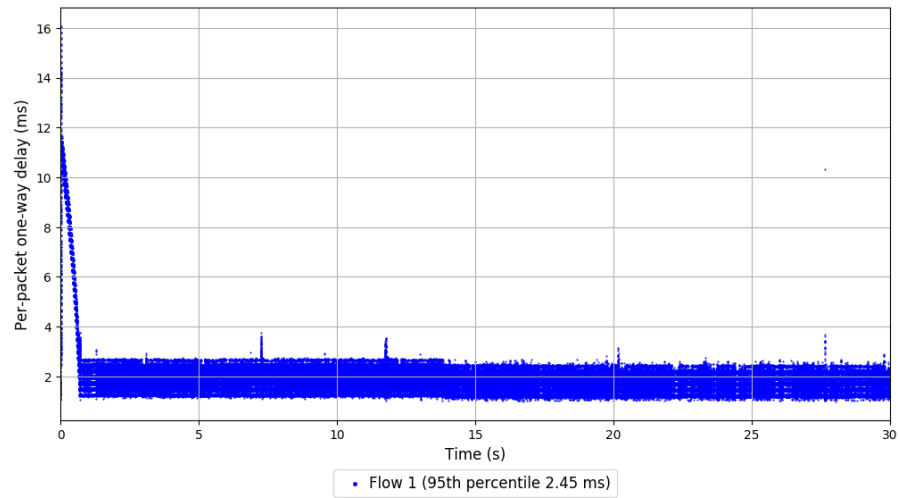
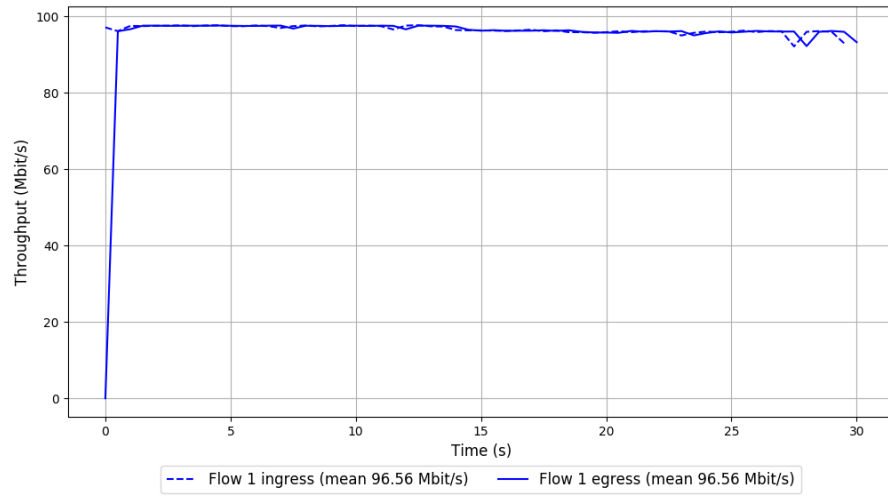
-- Flow 1:

Average throughput: 96.56 Mbit/s

95th percentile per-packet one-way delay: 2.454 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-06-27 20:29:28

End at: 2019-06-27 20:29:58

Local clock offset: -6.384 ms

Remote clock offset: 0.482 ms

# Below is generated by plot.py at 2019-06-27 21:19:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 3.205 ms

Loss rate: 0.00%

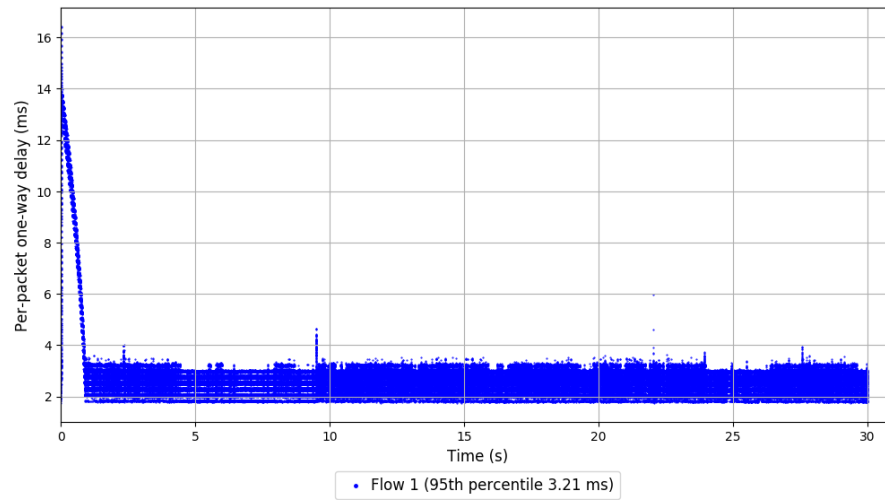
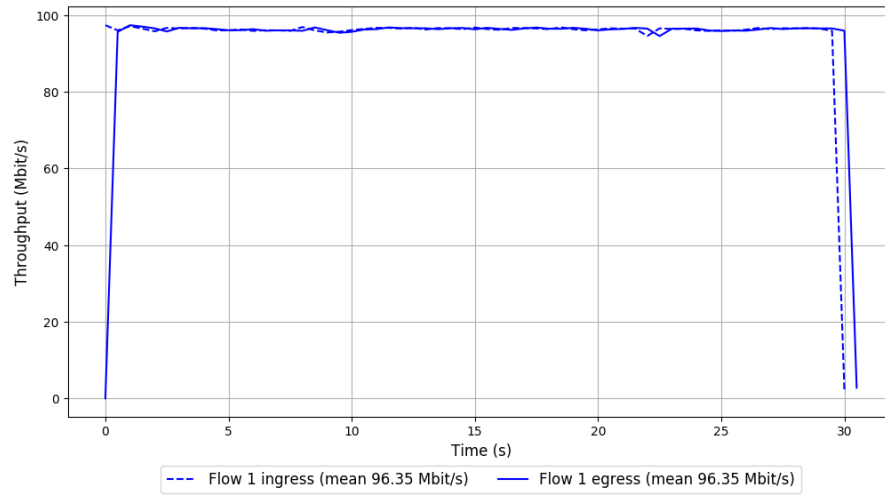
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 3.205 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-06-27 20:54:02

End at: 2019-06-27 20:54:32

Local clock offset: -5.646 ms

Remote clock offset: 0.497 ms

# Below is generated by plot.py at 2019-06-27 21:19:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.92 Mbit/s

95th percentile per-packet one-way delay: 4.358 ms

Loss rate: 0.01%

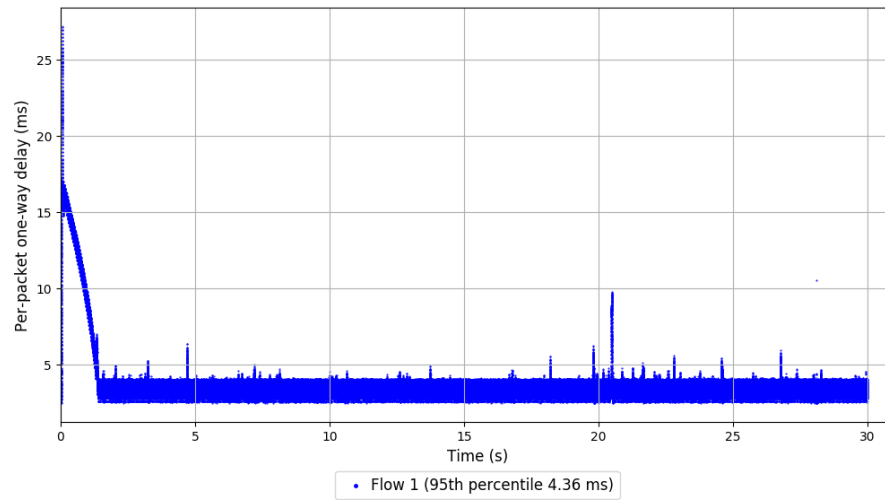
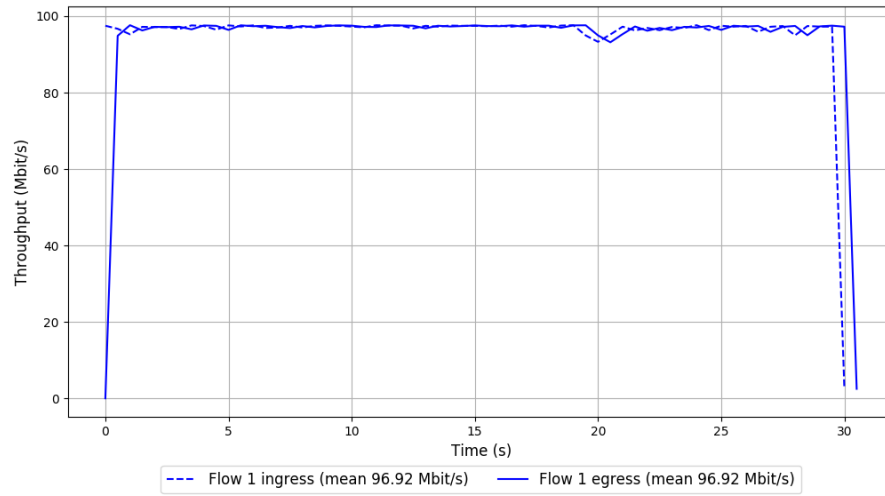
-- Flow 1:

Average throughput: 96.92 Mbit/s

95th percentile per-packet one-way delay: 4.358 ms

Loss rate: 0.01%

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

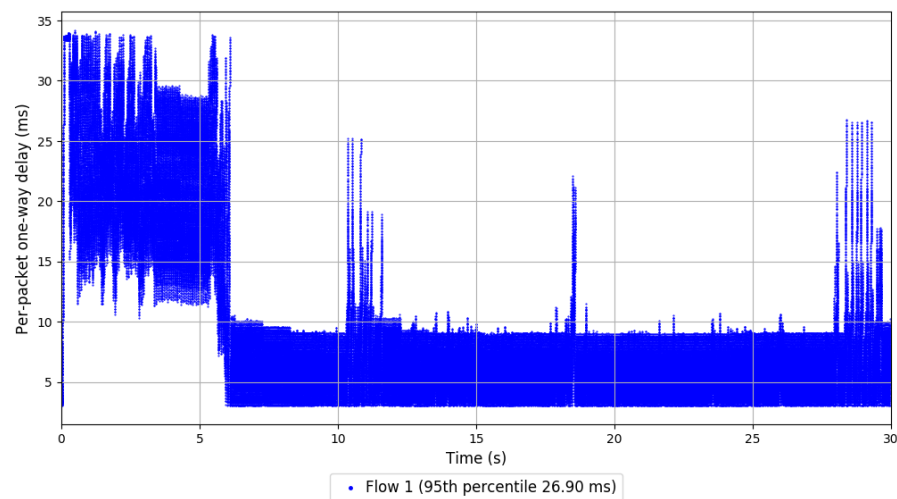
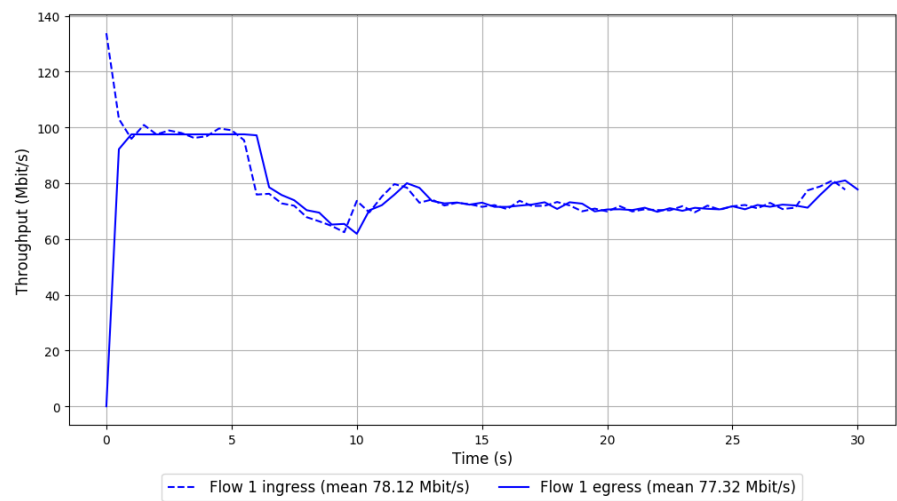


Run 1: Statistics of Verus

Start at: 2019-06-27 19:22:37  
End at: 2019-06-27 19:23:07  
Local clock offset: -6.092 ms  
Remote clock offset: -0.499 ms

# Below is generated by plot.py at 2019-06-27 21:19:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.32 Mbit/s  
95th percentile per-packet one-way delay: 26.899 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 77.32 Mbit/s  
95th percentile per-packet one-way delay: 26.899 ms  
Loss rate: 1.02%

Run 1: Report of Verus — Data Link





Run 2: Statistics of Verus

Start at: 2019-06-27 19:47:10

End at: 2019-06-27 19:47:40

Local clock offset: -5.75 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2019-06-27 21:19:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 33.97 Mbit/s

95th percentile per-packet one-way delay: 9.533 ms

Loss rate: 1.95%

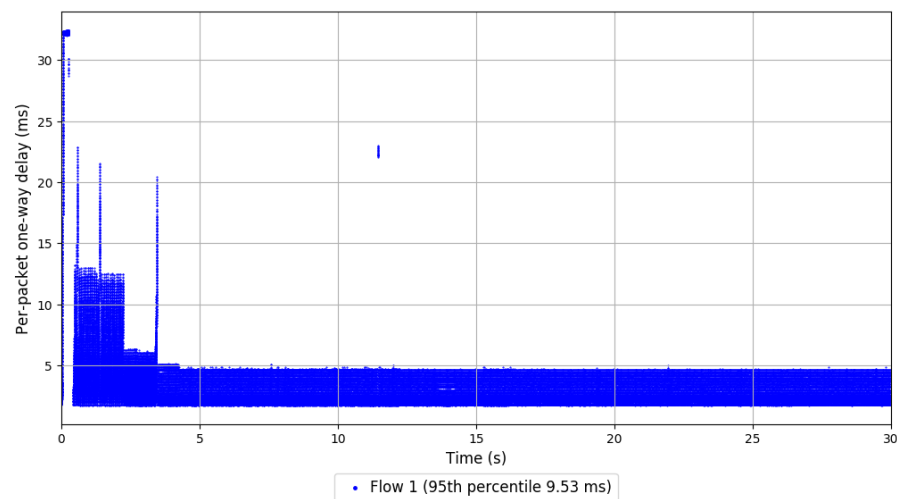
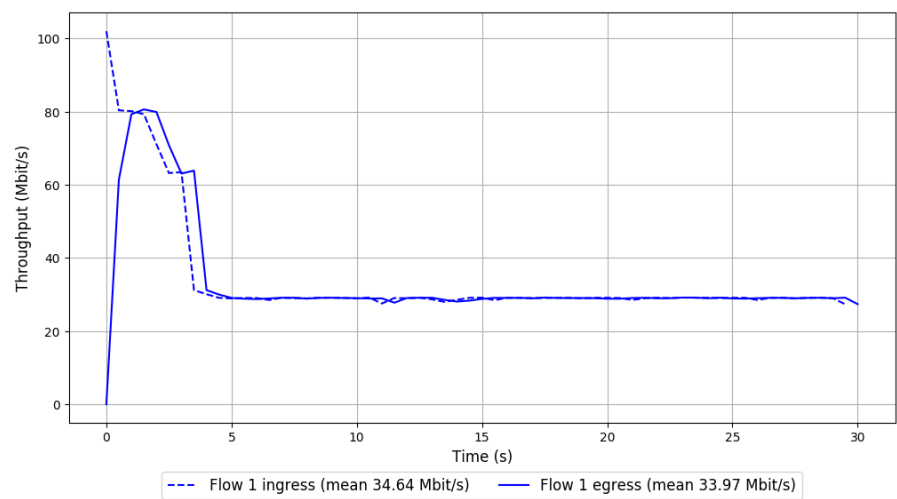
-- Flow 1:

Average throughput: 33.97 Mbit/s

95th percentile per-packet one-way delay: 9.533 ms

Loss rate: 1.95%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-06-27 20:11:41

End at: 2019-06-27 20:12:11

Local clock offset: -5.518 ms

Remote clock offset: 0.328 ms

# Below is generated by plot.py at 2019-06-27 21:19:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 7.079 ms

Loss rate: 1.48%

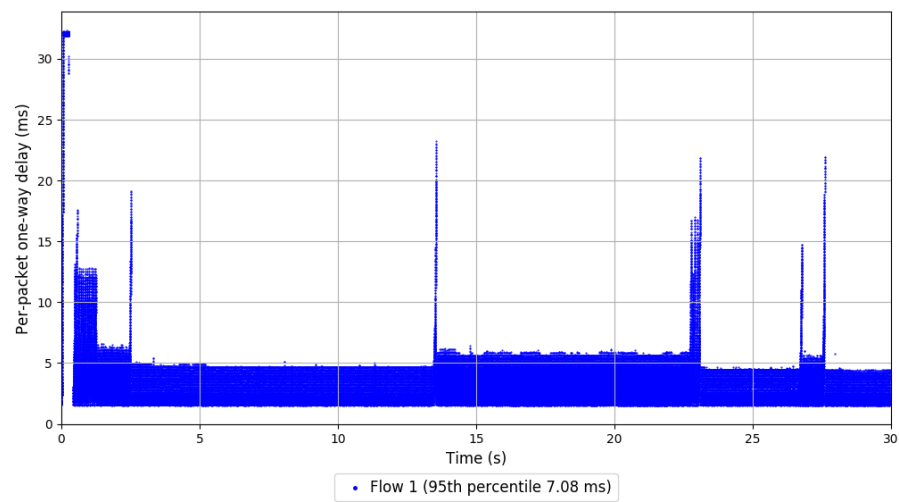
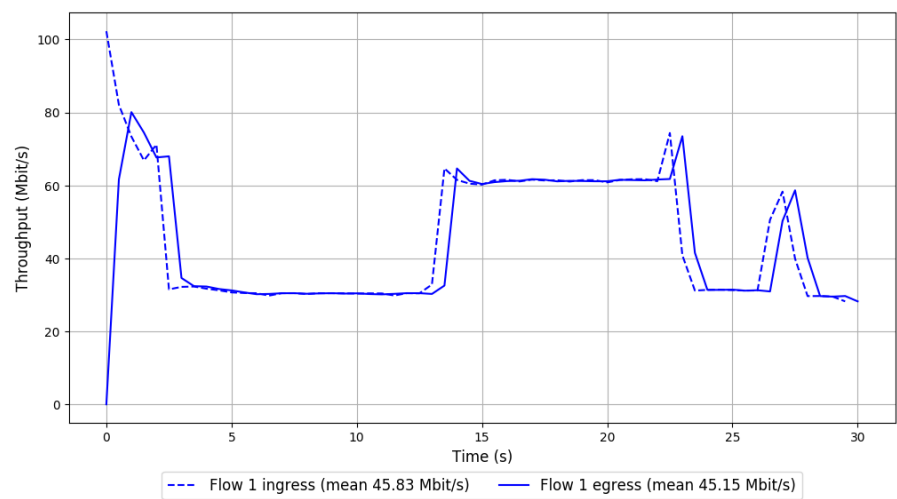
-- Flow 1:

Average throughput: 45.15 Mbit/s

95th percentile per-packet one-way delay: 7.079 ms

Loss rate: 1.48%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-06-27 20:36:12

End at: 2019-06-27 20:36:42

Local clock offset: -6.34 ms

Remote clock offset: 0.438 ms

# Below is generated by plot.py at 2019-06-27 21:19:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.22 Mbit/s

95th percentile per-packet one-way delay: 11.629 ms

Loss rate: 0.89%

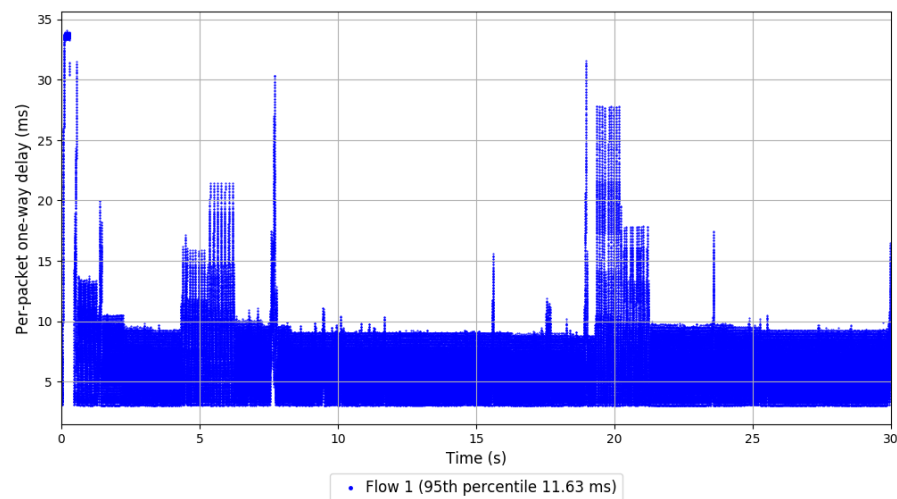
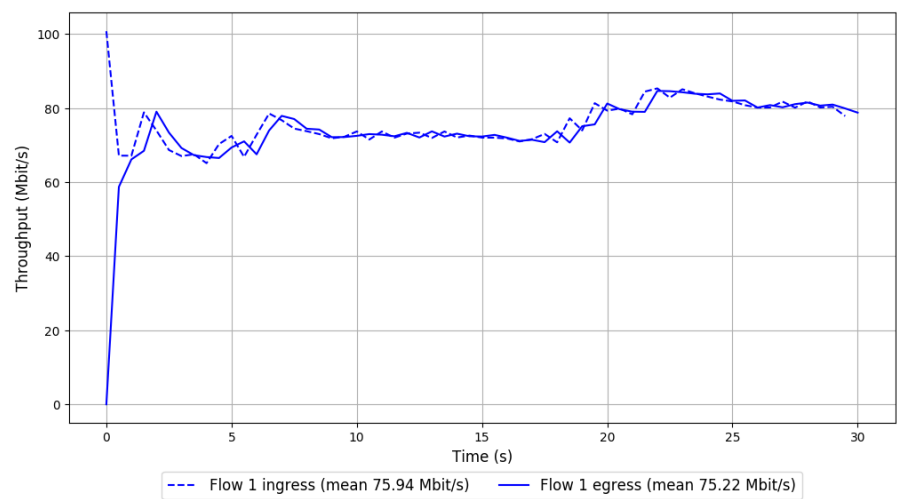
-- Flow 1:

Average throughput: 75.22 Mbit/s

95th percentile per-packet one-way delay: 11.629 ms

Loss rate: 0.89%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-06-27 21:00:46

End at: 2019-06-27 21:01:16

Local clock offset: -5.408 ms

Remote clock offset: 0.592 ms

# Below is generated by plot.py at 2019-06-27 21:20:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.75 Mbit/s

95th percentile per-packet one-way delay: 11.835 ms

Loss rate: 0.91%

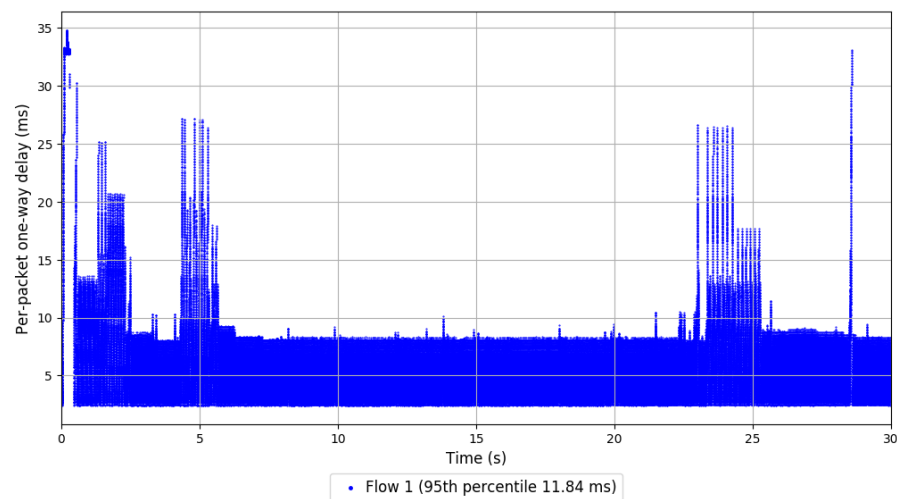
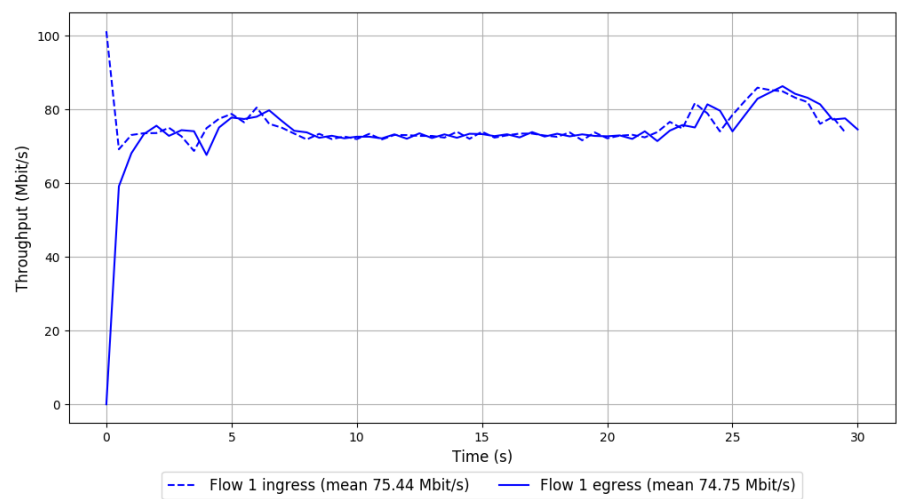
-- Flow 1:

Average throughput: 74.75 Mbit/s

95th percentile per-packet one-way delay: 11.835 ms

Loss rate: 0.91%

Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2019-06-27 19:28:10

End at: 2019-06-27 19:28:40

Local clock offset: -5.1 ms

Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2019-06-27 21:20:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.54 Mbit/s

95th percentile per-packet one-way delay: 2.532 ms

Loss rate: 0.00%

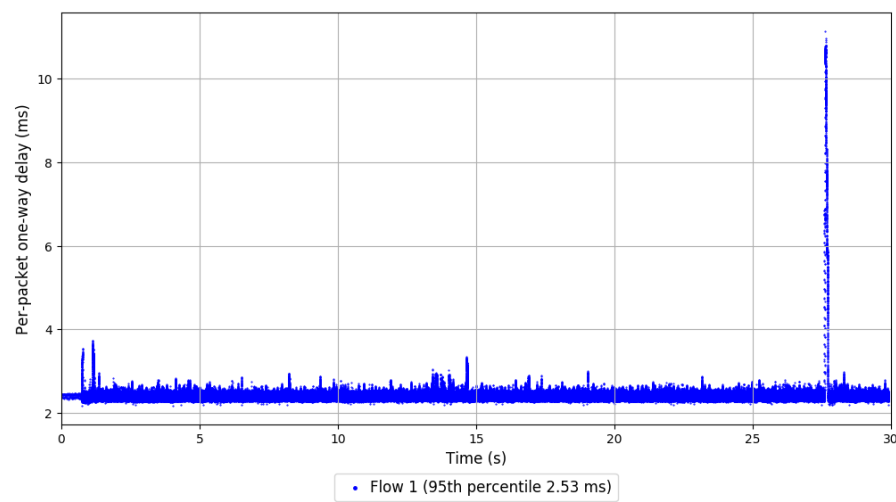
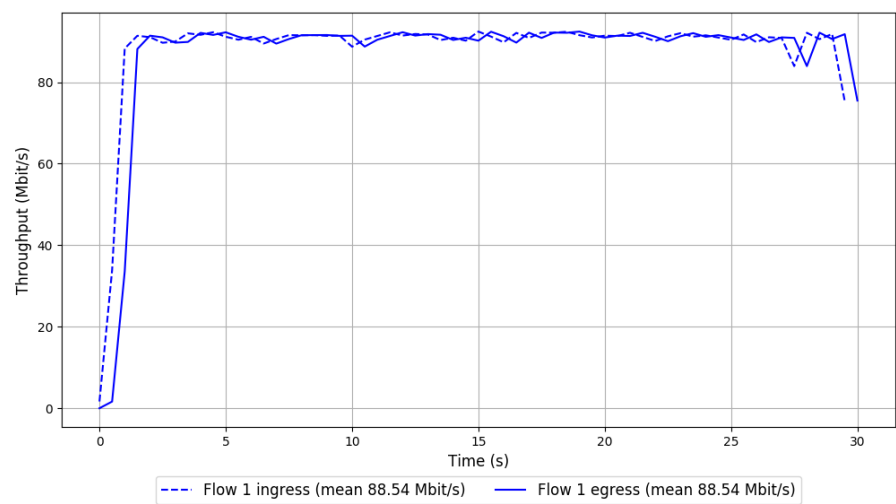
-- Flow 1:

Average throughput: 88.54 Mbit/s

95th percentile per-packet one-way delay: 2.532 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-06-27 19:52:41

End at: 2019-06-27 19:53:11

Local clock offset: -5.582 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2019-06-27 21:20:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.83 Mbit/s

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

Loss rate: 0.00%

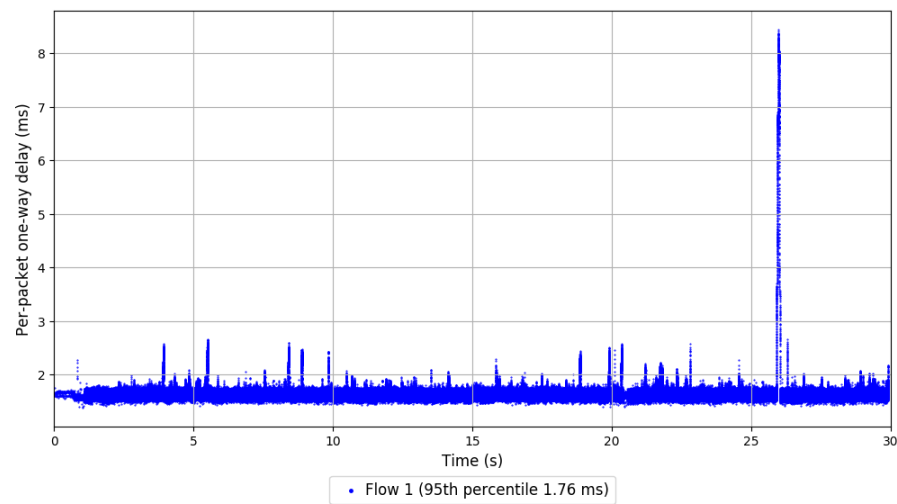
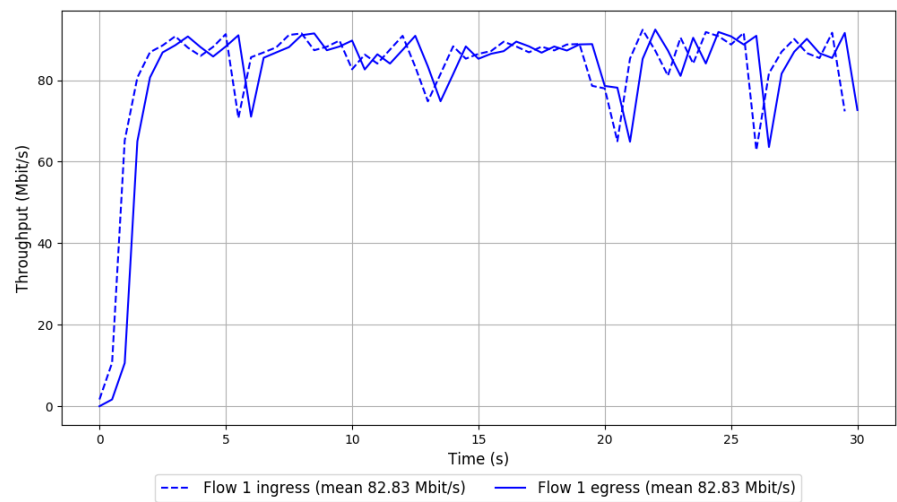
-- Flow 1:

Average throughput: 82.83 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-06-27 20:17:12

End at: 2019-06-27 20:17:42

Local clock offset: -4.688 ms

Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2019-06-27 21:20:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.89 Mbit/s

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

Loss rate: 0.00%

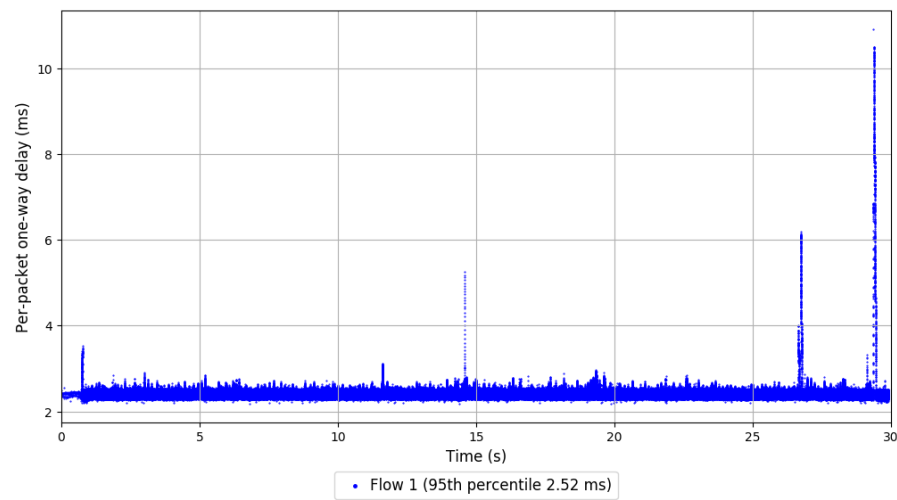
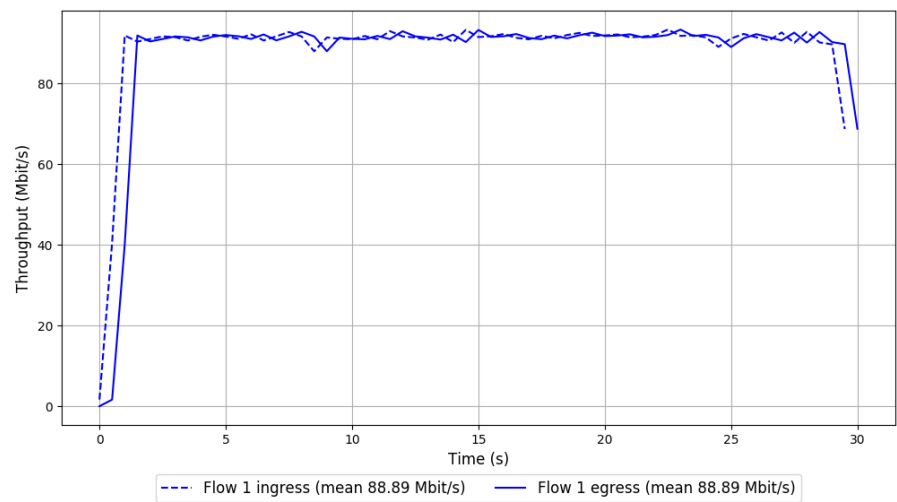
-- Flow 1:

Average throughput: 88.89 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-06-27 20:41:45

End at: 2019-06-27 20:42:15

Local clock offset: -6.51 ms

Remote clock offset: 0.475 ms

# Below is generated by plot.py at 2019-06-27 21:20:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.31 Mbit/s

95th percentile per-packet one-way delay: 3.365 ms

Loss rate: 0.01%

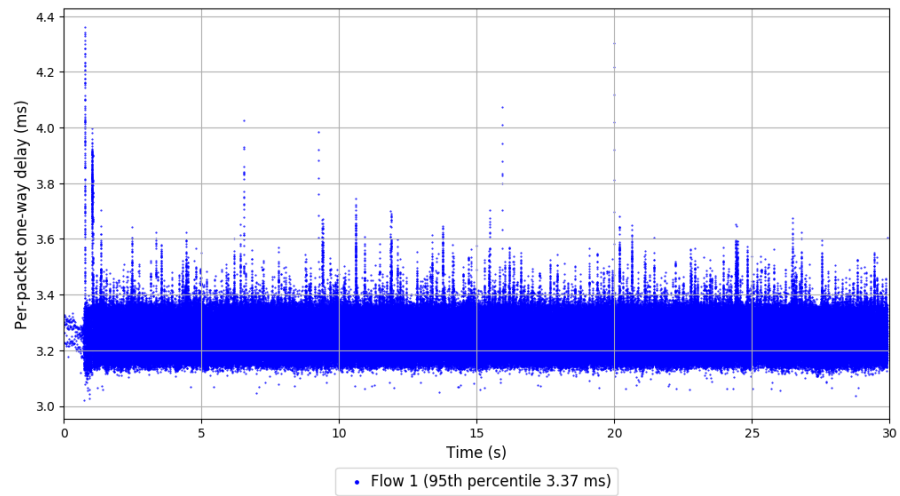
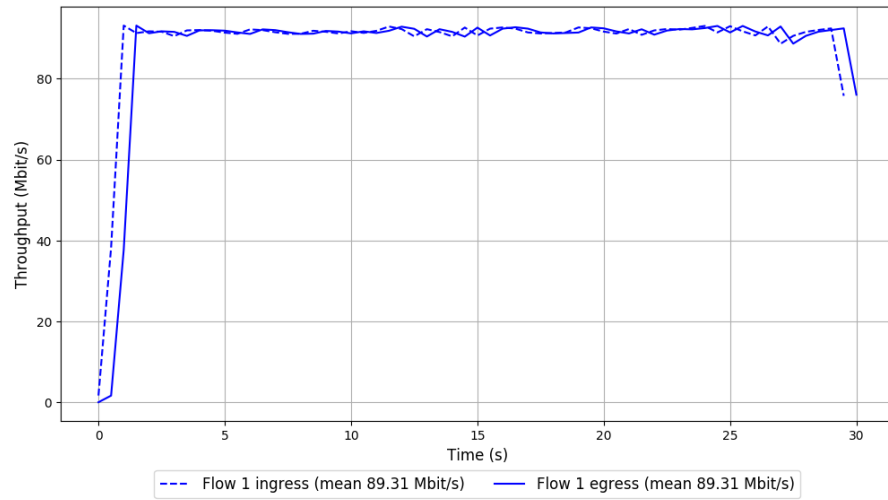
-- Flow 1:

Average throughput: 89.31 Mbit/s

95th percentile per-packet one-way delay: 3.365 ms

Loss rate: 0.01%

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





Run 5: Statistics of PCC-Vivace

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

End at: 2019-06-27 21:06:49

Local clock offset: -6.039 ms

Remote clock offset: 0.568 ms

# Below is generated by plot.py at 2019-06-27 21:20:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 1.829 ms

Loss rate: 0.00%

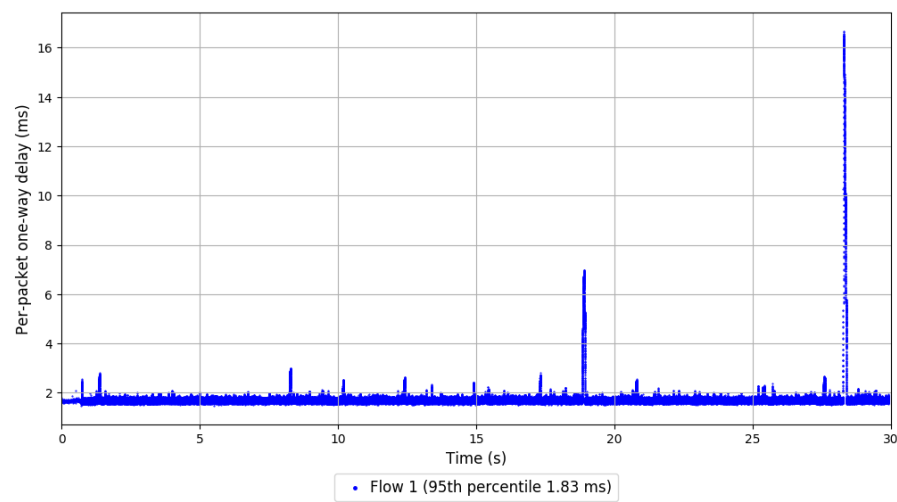
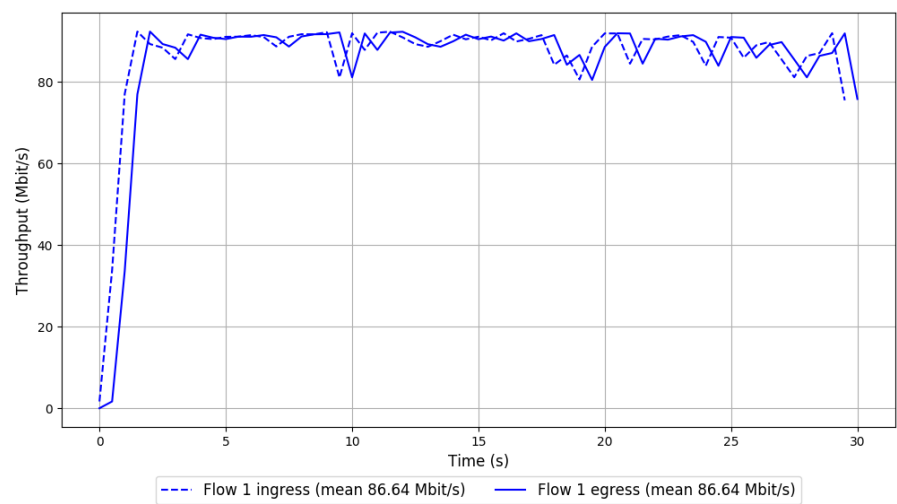
-- Flow 1:

Average throughput: 86.64 Mbit/s

95th percentile per-packet one-way delay: 1.829 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

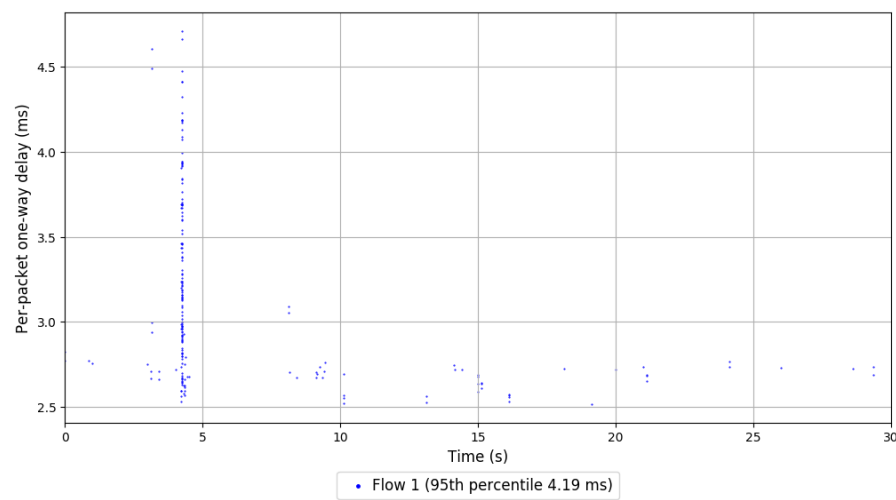
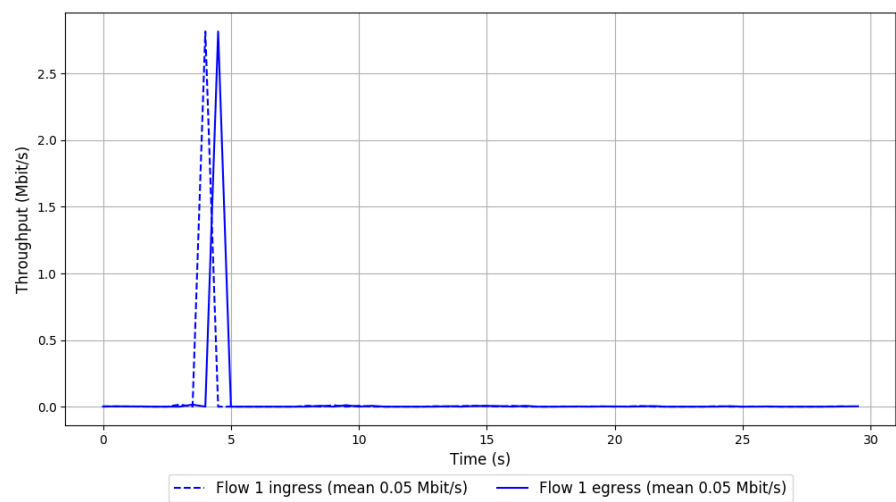


```
Run 1: Statistics of WebRTC media

Start at: 2019-06-27 19:07:01
End at: 2019-06-27 19:07:31
Local clock offset: -5.788 ms
Remote clock offset: -0.595 ms

# Below is generated by plot.py at 2019-06-27 21:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.188 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

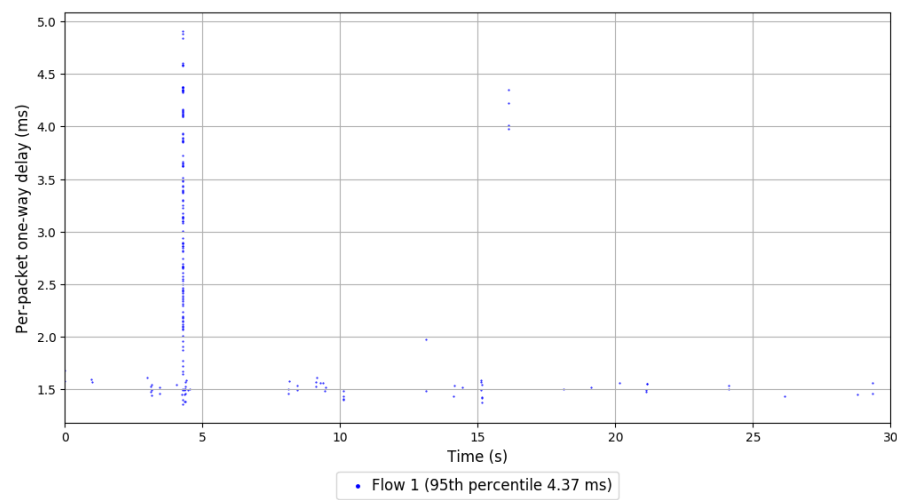
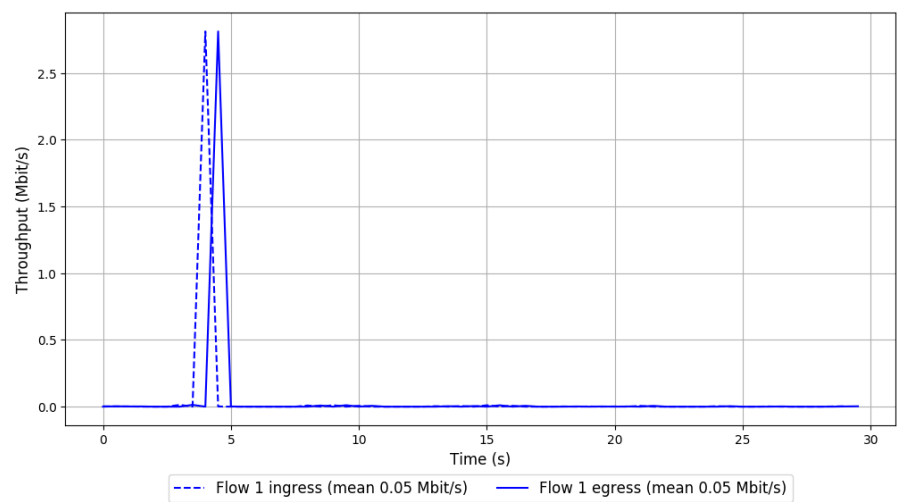


Run 2: Statistics of WebRTC media

Start at: 2019-06-27 19:31:33  
End at: 2019-06-27 19:32:04  
Local clock offset: -5.81 ms  
Remote clock offset: -0.325 ms

# Below is generated by plot.py at 2019-06-27 21:20:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 4.372 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 4.372 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-06-27 19:56:04

End at: 2019-06-27 19:56:34

Local clock offset: -4.801 ms

Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-06-27 21:20:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.701 ms

Loss rate: 0.00%

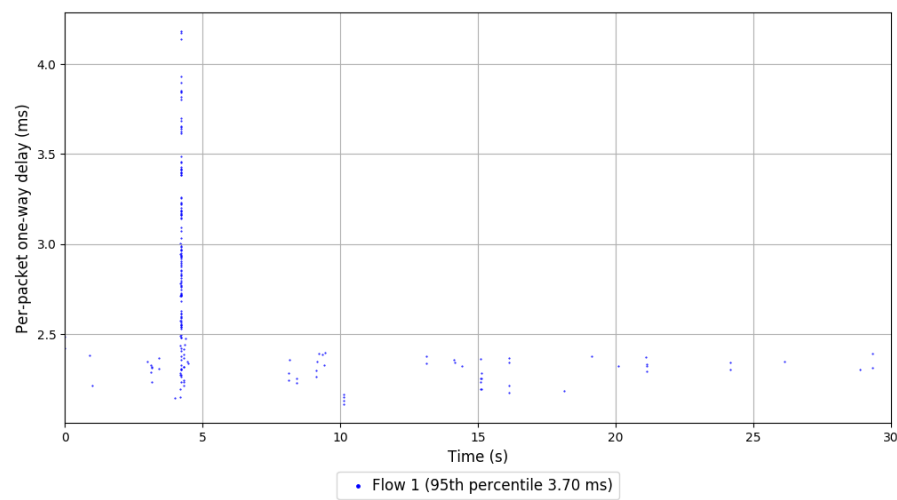
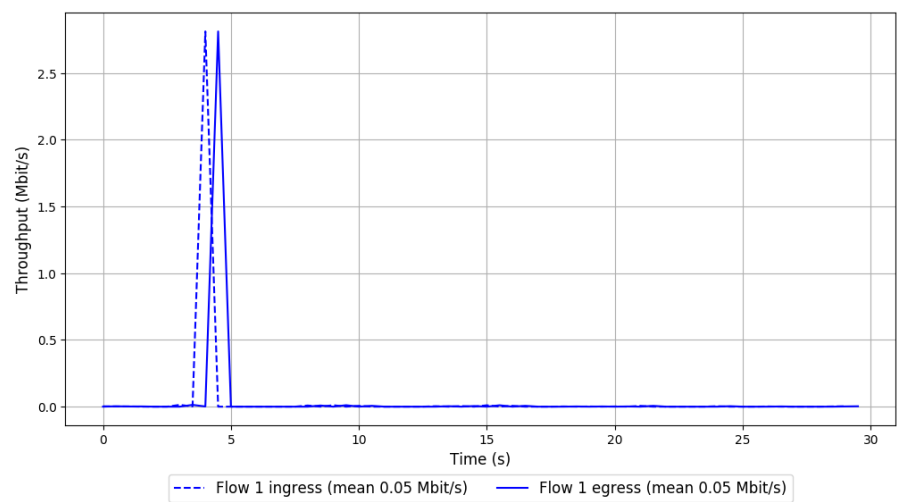
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.701 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link





Run 4: Statistics of WebRTC media

Start at: 2019-06-27 20:20:36

End at: 2019-06-27 20:21:06

Local clock offset: -4.944 ms

Remote clock offset: 0.439 ms

# Below is generated by plot.py at 2019-06-27 21:20:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.314 ms

Loss rate: 0.00%

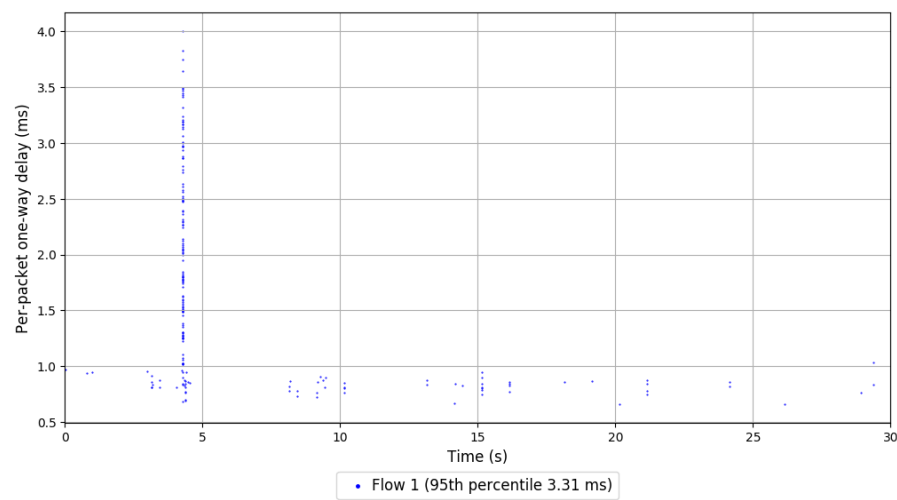
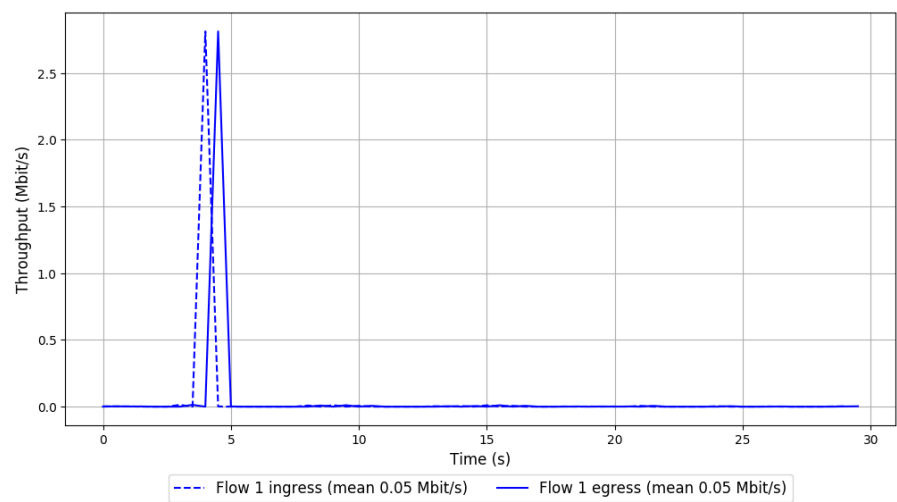
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.314 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-06-27 20:45:08

End at: 2019-06-27 20:45:38

Local clock offset: -6.478 ms

Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2019-06-27 21:20:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 8.723 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 8.723 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

