

## Pantheon Report

Generated at 2019-01-19 07:32:10 (UTC).

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

Repeated the test of 21 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.

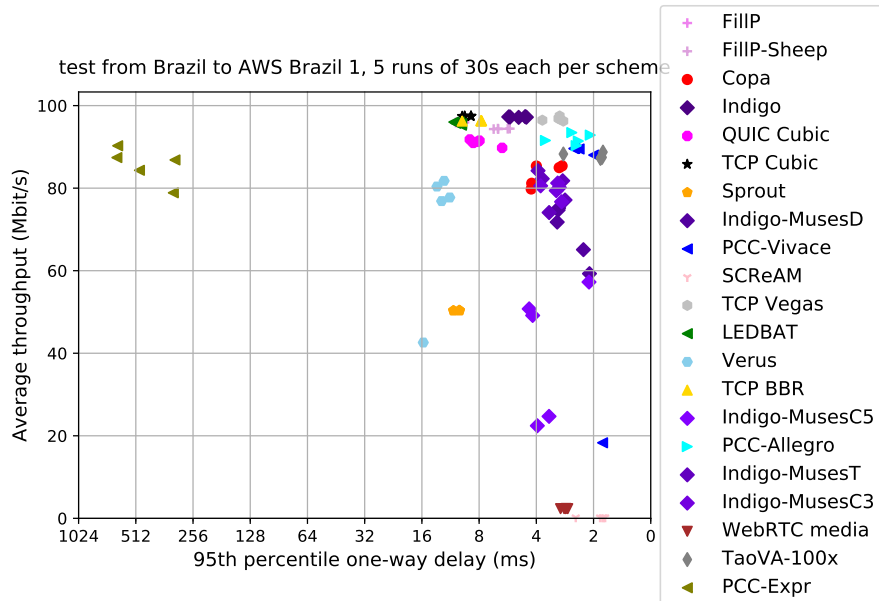
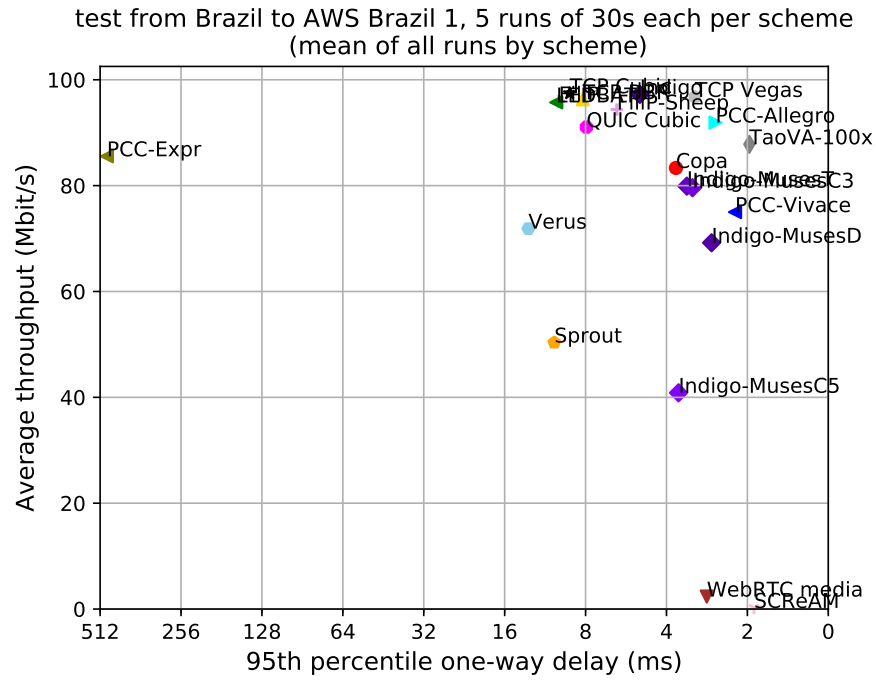
### System info:

```
Linux 4.15.0-1031-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 @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	96.31	8.20	0.05
Copa	5	83.34	3.69	0.01
TCP Cubic	5	97.45	9.16	0.05
FillP	5	95.92	10.07	0.03
FillP-Sheep	5	94.38	6.12	0.03
Indigo	5	97.24	5.03	0.02
Indigo-MusesC3	5	79.61	3.20	0.02
Indigo-MusesC5	5	40.86	3.61	0.01
Indigo-MusesD	5	69.21	2.72	0.02
Indigo-MusesT	5	79.90	3.36	0.02
LEDBAT	5	95.73	10.29	0.08
PCC-Allegro	5	91.92	2.63	0.02
PCC-Expr	5	85.54	483.25	2.07
QUIC Cubic	5	91.05	7.94	0.02
SCReAM	5	0.22	1.84	0.05
Sprout	5	50.35	10.46	0.05
TaoVA-100x	5	87.81	1.95	0.02
TCP Vegas	5	96.75	3.14	0.01
Verus	5	71.87	13.06	0.09
PCC-Vivace	5	75.00	2.22	0.02
WebRTC media	5	2.36	2.83	0.02



Run 1: Statistics of TCP BBR

Start at: 2019-01-19 05:32:22

End at: 2019-01-19 05:32:52

Local clock offset: -1.701 ms

Remote clock offset: 0.412 ms

# Below is generated by plot.py at 2019-01-19 07:19:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 7.791 ms

Loss rate: 0.03%

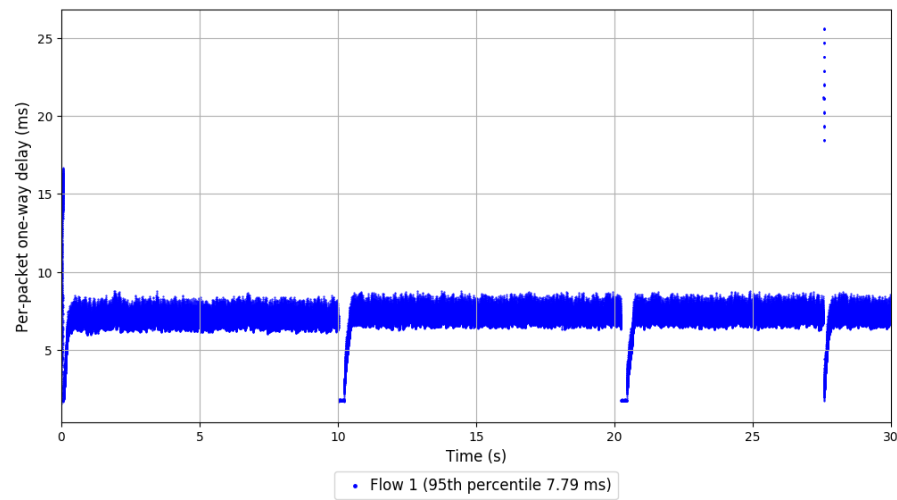
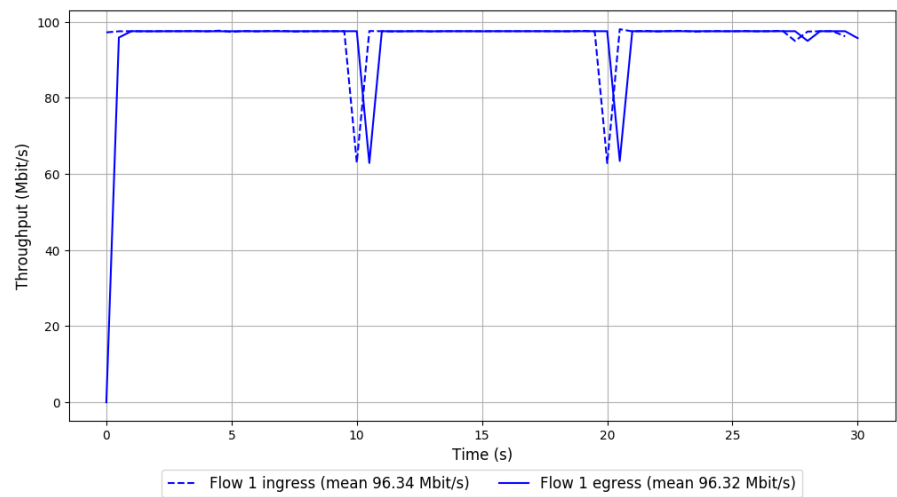
-- Flow 1:

Average throughput: 96.32 Mbit/s

95th percentile per-packet one-way delay: 7.791 ms

Loss rate: 0.03%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-19 05:56:06

End at: 2019-01-19 05:56:36

Local clock offset: -5.354 ms

Remote clock offset: 0.877 ms

# Below is generated by plot.py at 2019-01-19 07:19:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 7.813 ms

Loss rate: 0.03%

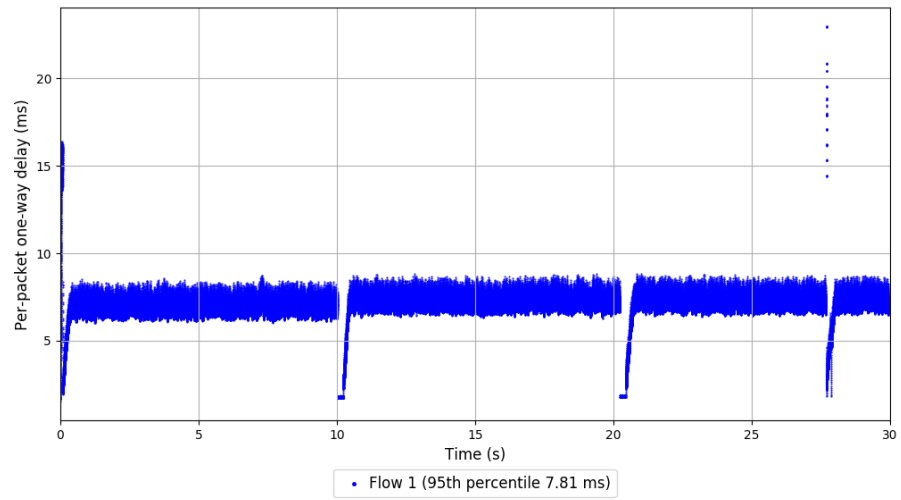
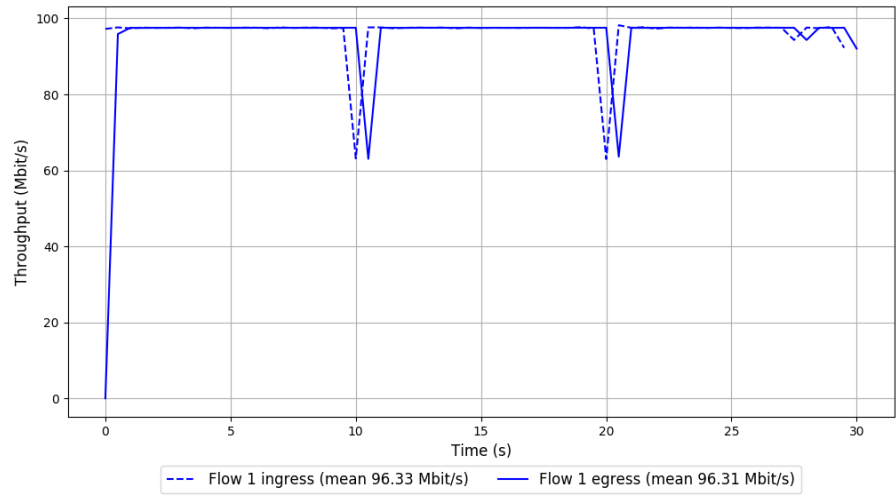
-- Flow 1:

Average throughput: 96.31 Mbit/s

95th percentile per-packet one-way delay: 7.813 ms

Loss rate: 0.03%

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



Run 3: Statistics of TCP BBR

Start at: 2019-01-19 06:19:49

End at: 2019-01-19 06:20:19

Local clock offset: -8.001 ms

Remote clock offset: 0.825 ms

# Below is generated by plot.py at 2019-01-19 07:19:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 7.828 ms

Loss rate: 0.03%

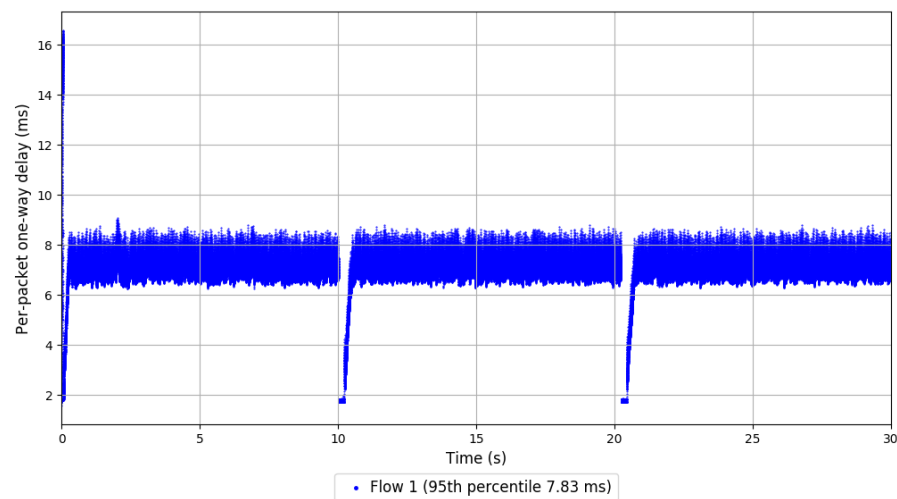
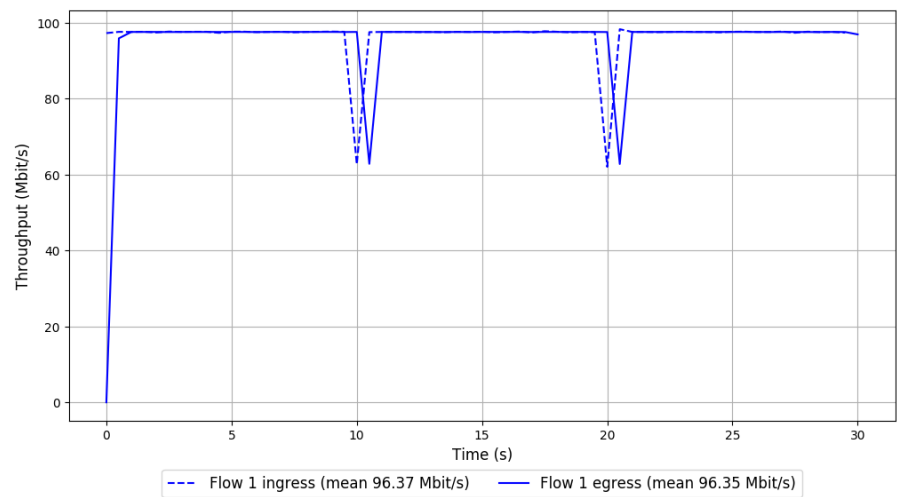
-- Flow 1:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 7.828 ms

Loss rate: 0.03%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-01-19 06:43:33

End at: 2019-01-19 06:44:03

Local clock offset: -8.545 ms

Remote clock offset: 1.065 ms

# Below is generated by plot.py at 2019-01-19 07:19:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 7.763 ms

Loss rate: 0.03%

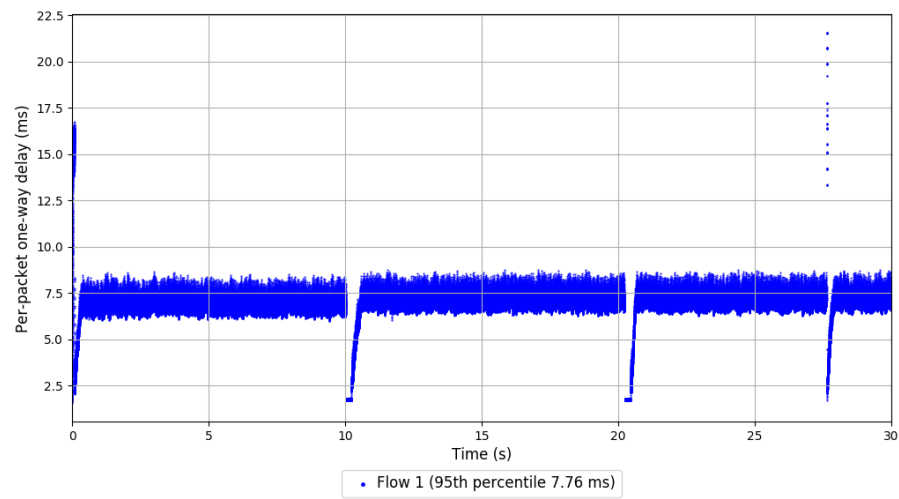
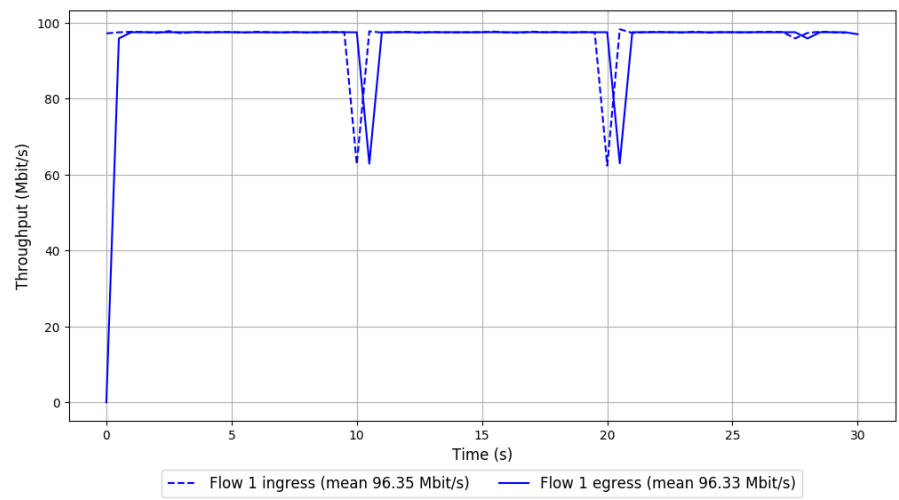
-- Flow 1:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 7.763 ms

Loss rate: 0.03%

Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-01-19 07:07:19

End at: 2019-01-19 07:07:49

Local clock offset: -7.238 ms

Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2019-01-19 07:19:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 9.822 ms

Loss rate: 0.12%

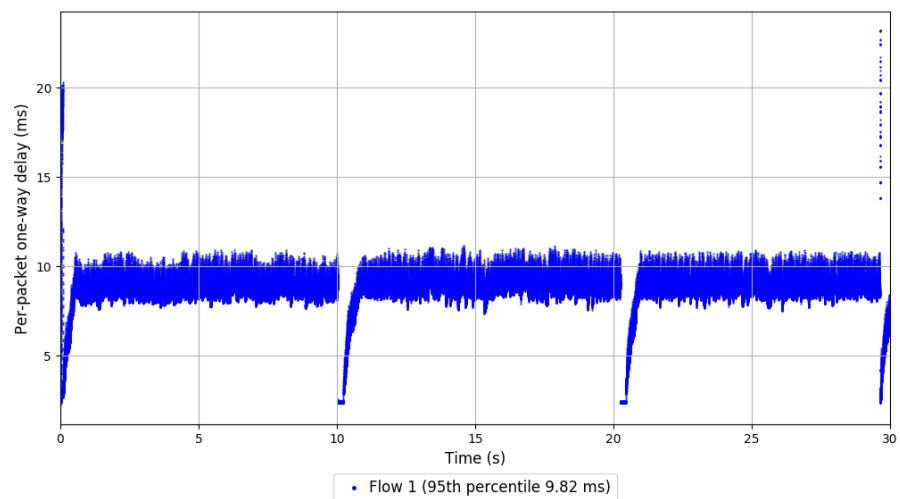
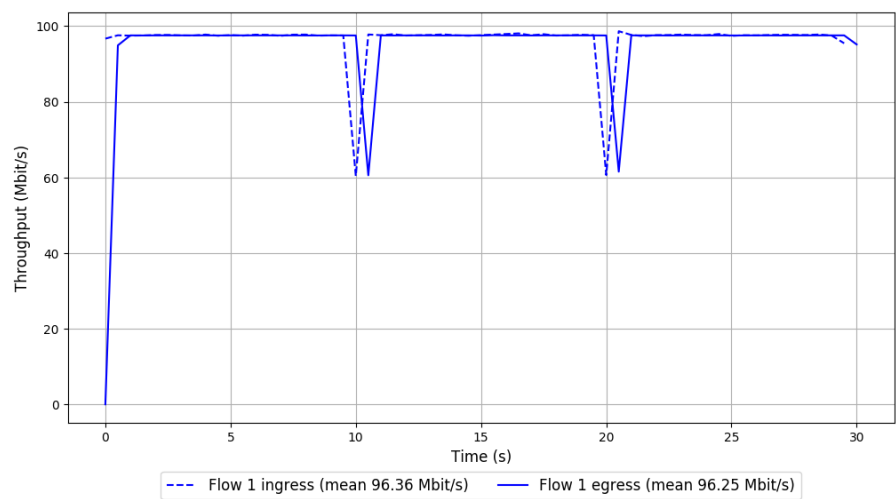
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 9.822 ms

Loss rate: 0.12%

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



Run 1: Statistics of Copa

Start at: 2019-01-19 05:30:02

End at: 2019-01-19 05:30:32

Local clock offset: -0.959 ms

Remote clock offset: 0.447 ms

# Below is generated by plot.py at 2019-01-19 07:20:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 4.257 ms

Loss rate: 0.02%

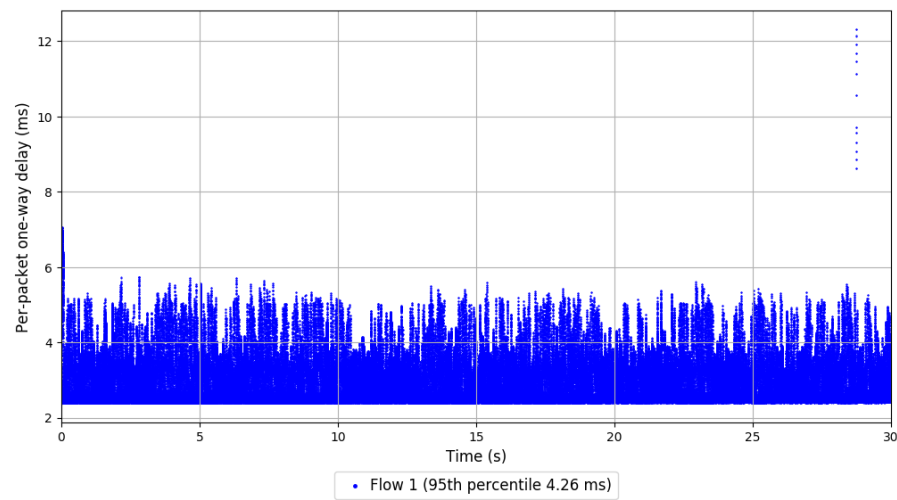
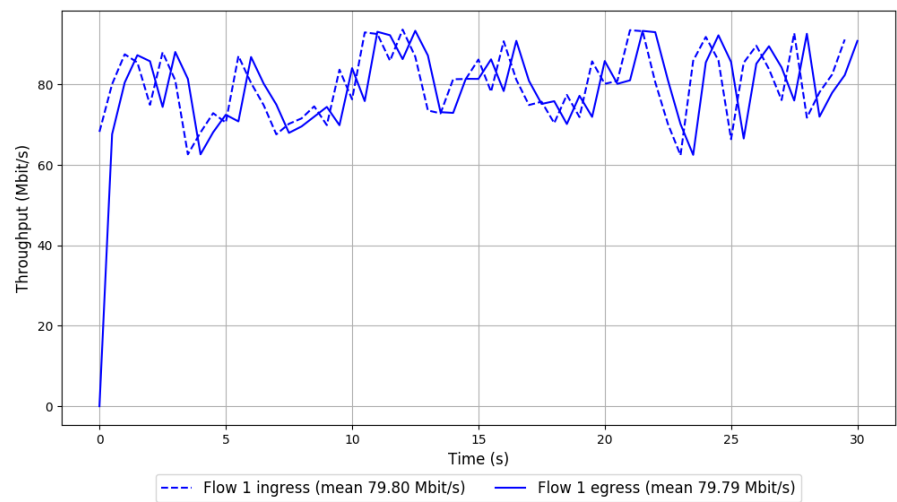
-- Flow 1:

Average throughput: 79.79 Mbit/s

95th percentile per-packet one-way delay: 4.257 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link

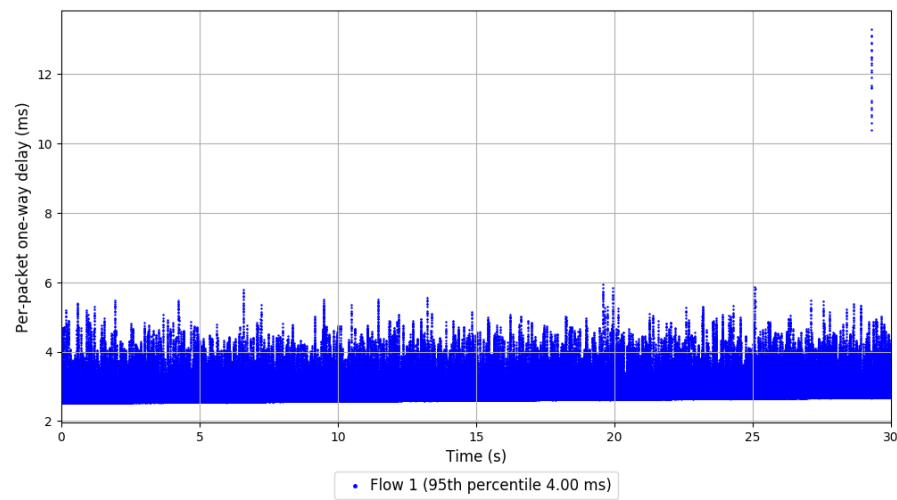
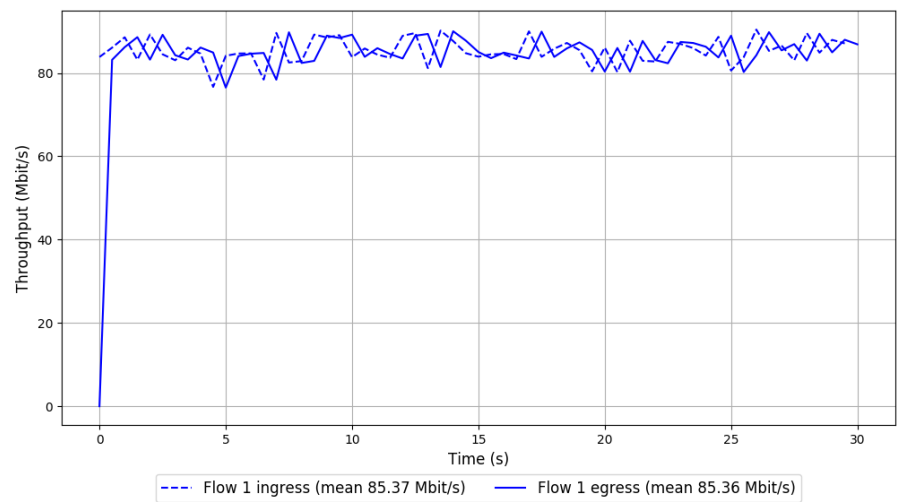


Run 2: Statistics of Copa

Start at: 2019-01-19 05:53:45  
End at: 2019-01-19 05:54:16  
Local clock offset: -3.834 ms  
Remote clock offset: 0.836 ms

# Below is generated by plot.py at 2019-01-19 07:20:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.36 Mbit/s  
95th percentile per-packet one-way delay: 3.998 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 85.36 Mbit/s  
95th percentile per-packet one-way delay: 3.998 ms  
Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-01-19 06:17:29

End at: 2019-01-19 06:17:59

Local clock offset: -8.001 ms

Remote clock offset: 0.99 ms

# Below is generated by plot.py at 2019-01-19 07:20:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 2.927 ms

Loss rate: 0.01%

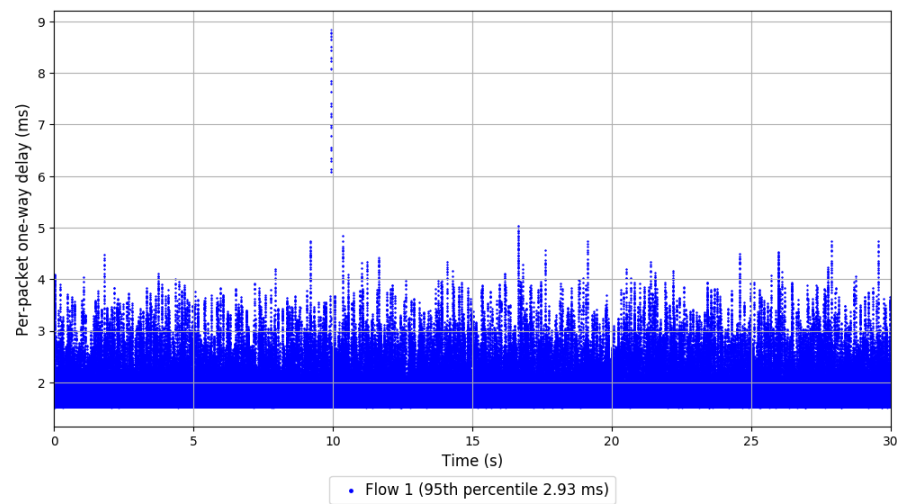
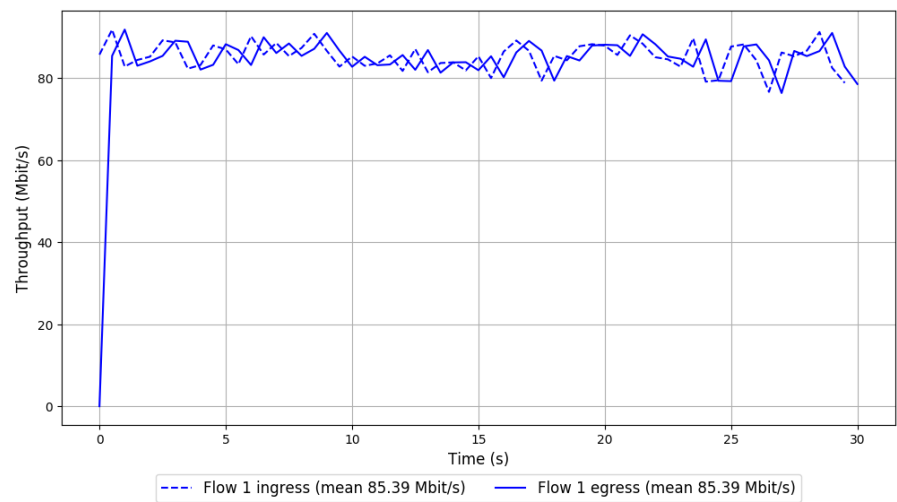
-- Flow 1:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 2.927 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



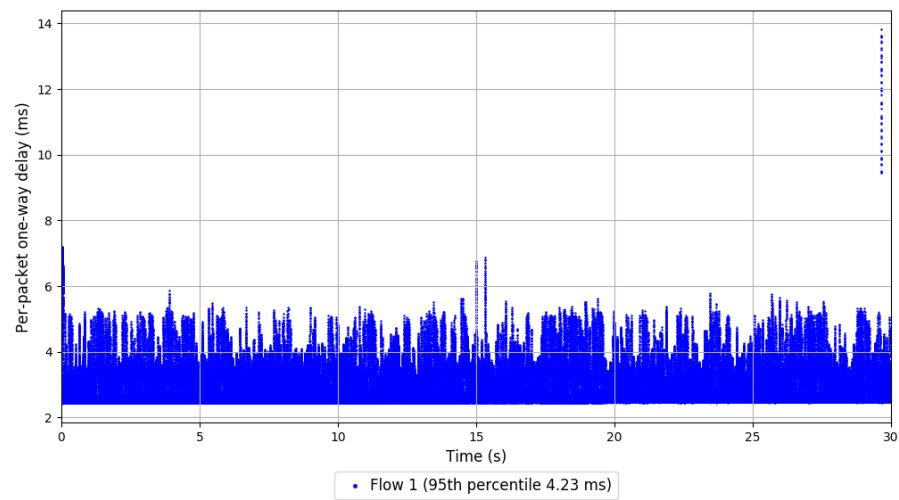
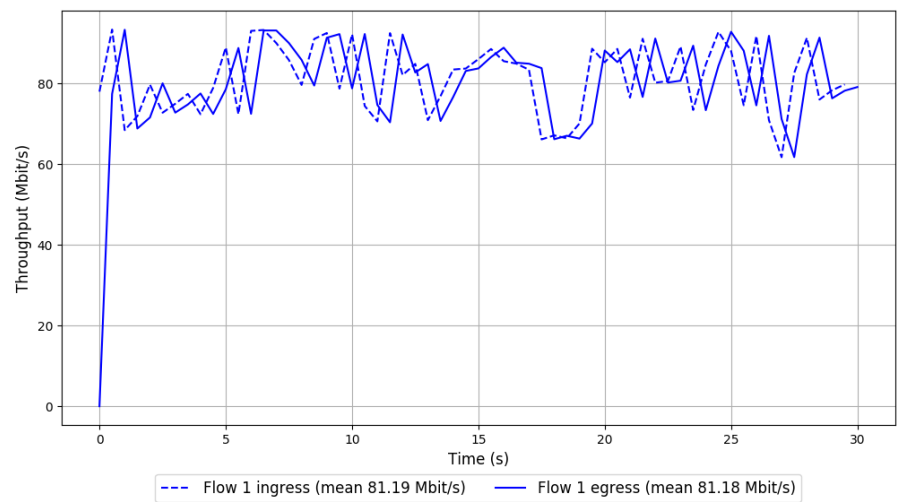


Run 4: Statistics of Copa

Start at: 2019-01-19 06:41:13  
End at: 2019-01-19 06:41:43  
Local clock offset: -7.685 ms  
Remote clock offset: 1.057 ms

# Below is generated by plot.py at 2019-01-19 07:21:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.18 Mbit/s  
95th percentile per-packet one-way delay: 4.230 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 81.18 Mbit/s  
95th percentile per-packet one-way delay: 4.230 ms  
Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-19 07:04:59

End at: 2019-01-19 07:05:29

Local clock offset: -7.977 ms

Remote clock offset: 1.109 ms

# Below is generated by plot.py at 2019-01-19 07:21:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 3.033 ms

Loss rate: 0.01%

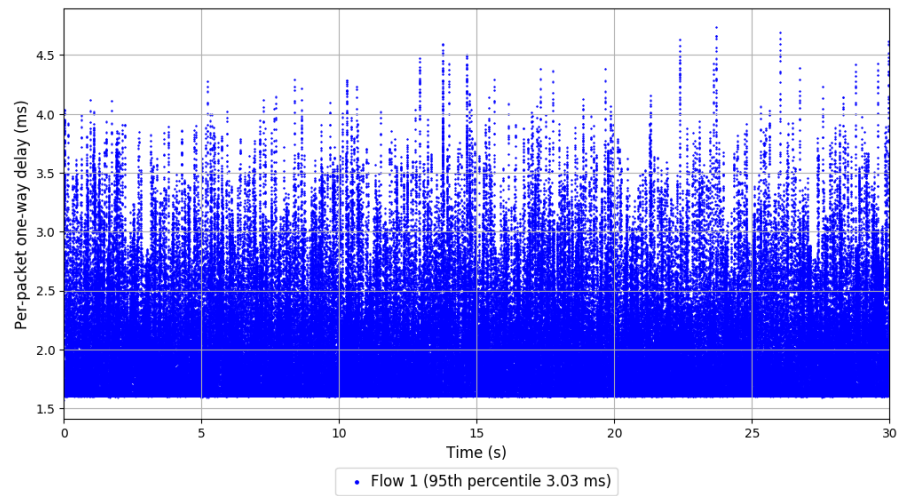
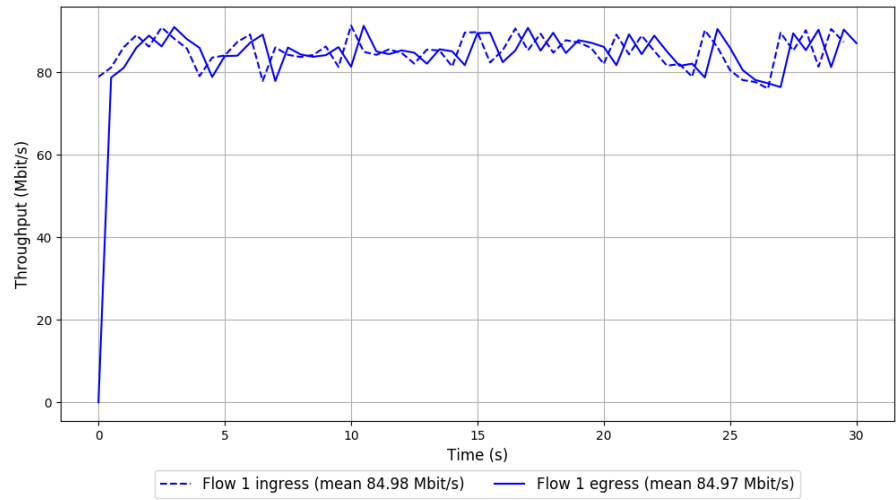
-- Flow 1:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 3.033 ms

Loss rate: 0.01%

### Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-19 05:40:12

End at: 2019-01-19 05:40:42

Local clock offset: -1.557 ms

Remote clock offset: 0.683 ms

# Below is generated by plot.py at 2019-01-19 07:21:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 8.819 ms

Loss rate: 0.05%

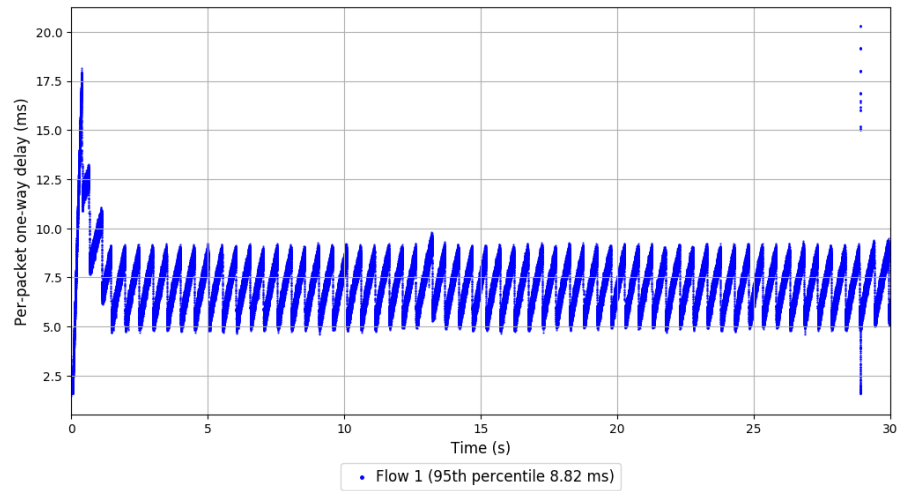
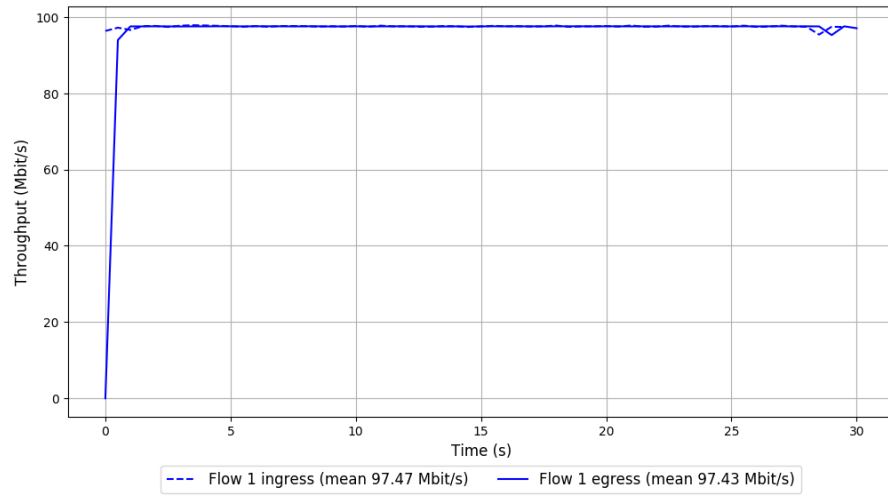
-- Flow 1:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 8.819 ms

Loss rate: 0.05%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-01-19 06:03:56

End at: 2019-01-19 06:04:26

Local clock offset: -6.042 ms

Remote clock offset: 0.772 ms

# Below is generated by plot.py at 2019-01-19 07:21:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 9.813 ms

Loss rate: 0.05%

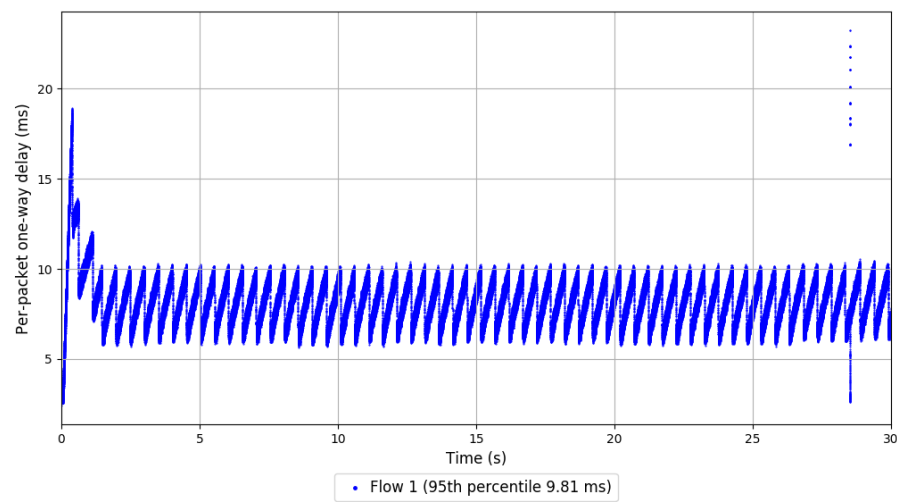
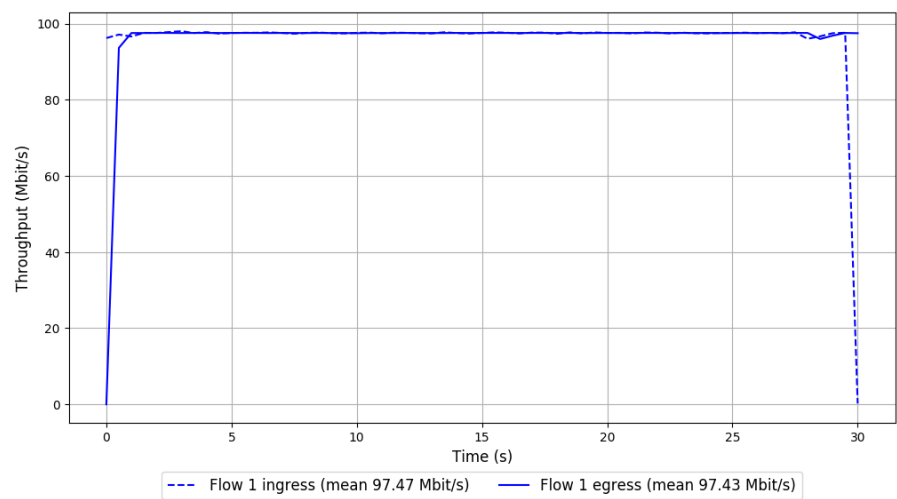
-- Flow 1:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 9.813 ms

Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-01-19 06:27:39

End at: 2019-01-19 06:28:09

Local clock offset: -7.326 ms

Remote clock offset: 0.962 ms

# Below is generated by plot.py at 2019-01-19 07:21:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 9.530 ms

Loss rate: 0.06%

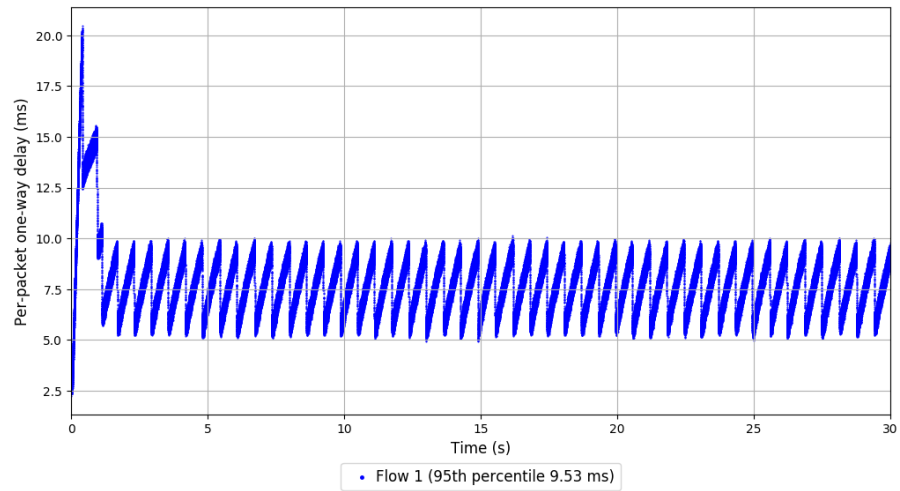
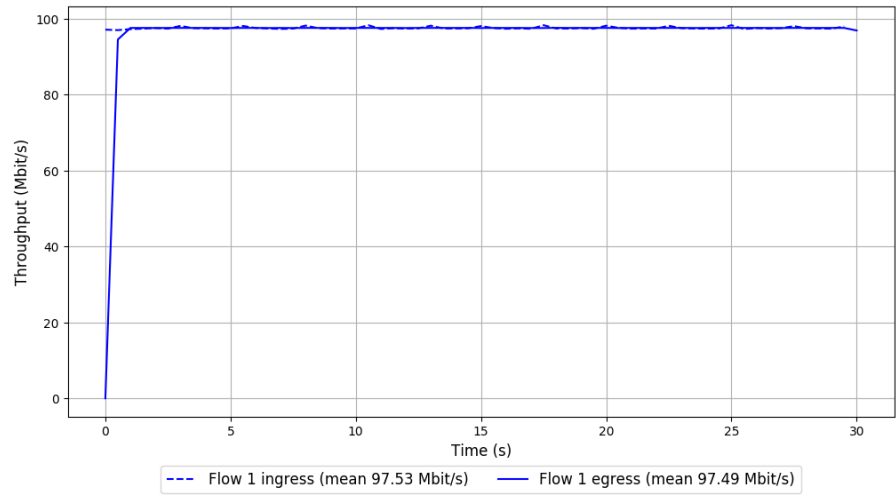
-- Flow 1:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 9.530 ms

Loss rate: 0.06%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-01-19 06:51:23

End at: 2019-01-19 06:51:53

Local clock offset: -8.243 ms

Remote clock offset: 1.214 ms

# Below is generated by plot.py at 2019-01-19 07:21:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 8.825 ms

Loss rate: 0.05%

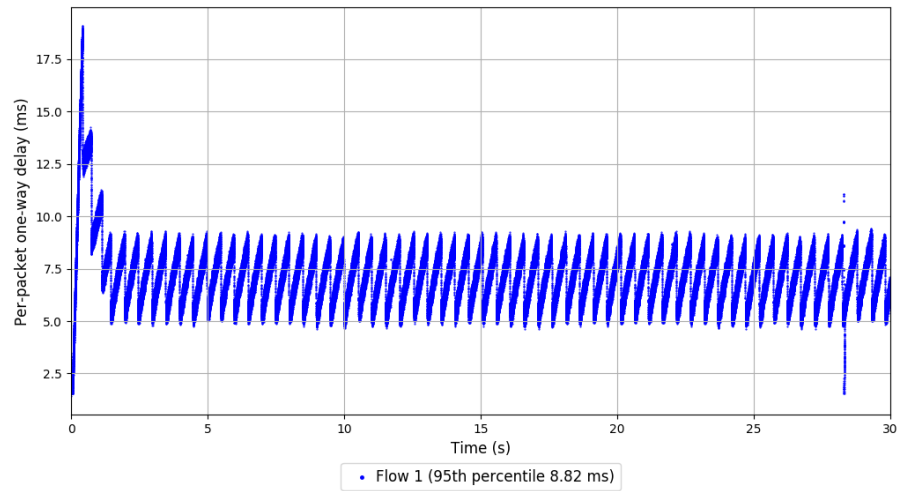
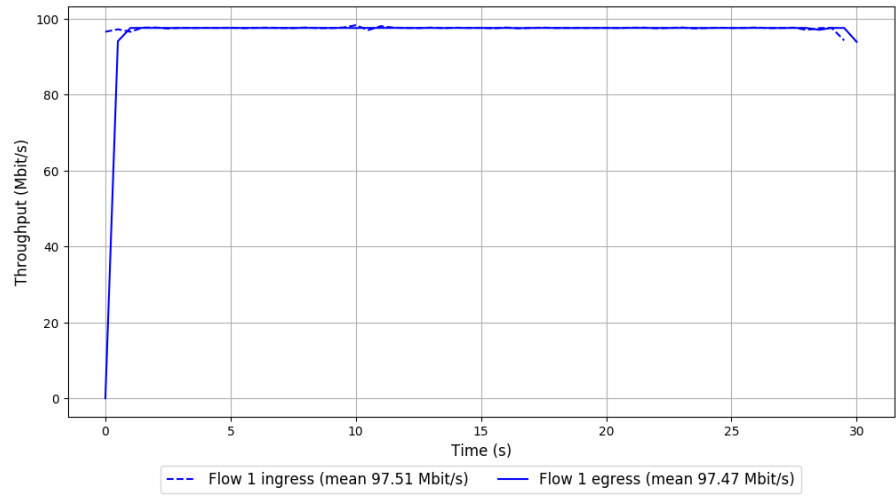
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 8.825 ms

Loss rate: 0.05%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-01-19 07:15:10

End at: 2019-01-19 07:15:40

Local clock offset: -8.0 ms

Remote clock offset: 1.059 ms

# Below is generated by plot.py at 2019-01-19 07:21:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 8.833 ms

Loss rate: 0.06%

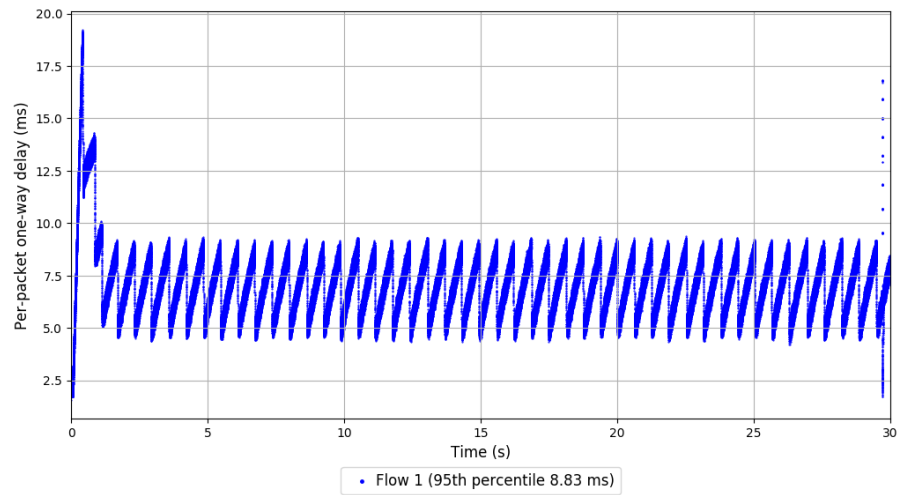
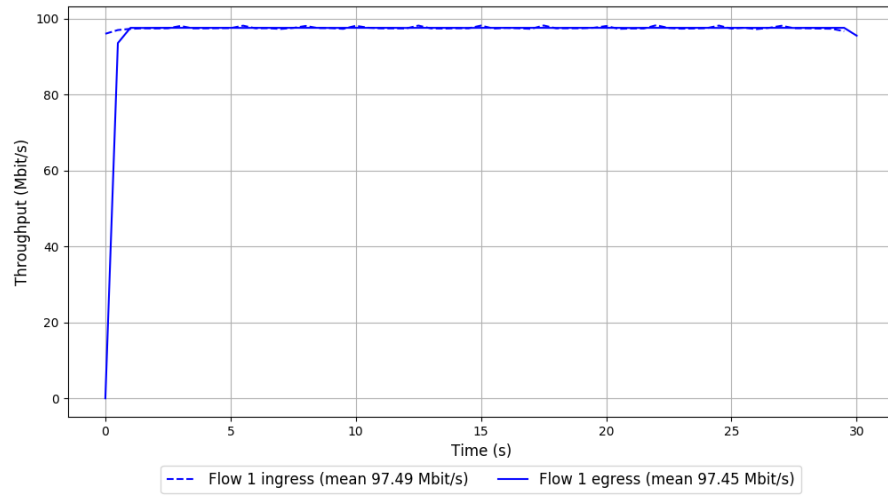
-- Flow 1:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 8.833 ms

Loss rate: 0.06%

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



Run 1: Statistics of FillP

Start at: 2019-01-19 05:26:38

End at: 2019-01-19 05:27:08

Local clock offset: -0.953 ms

Remote clock offset: 0.437 ms

# Below is generated by plot.py at 2019-01-19 07:22:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 10.612 ms

Loss rate: 0.03%

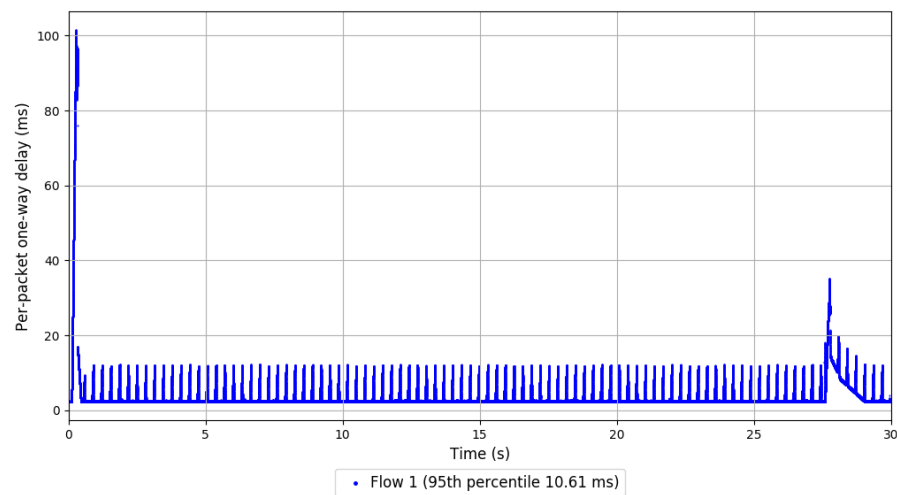
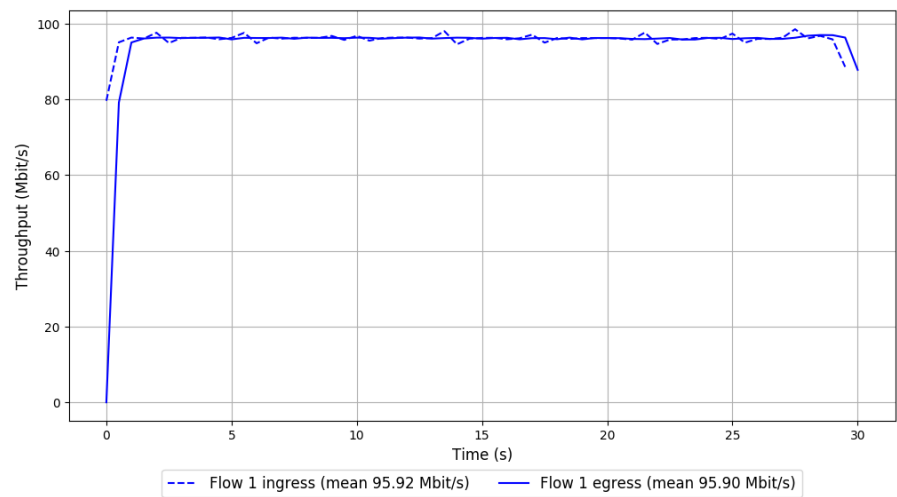
-- Flow 1:

Average throughput: 95.90 Mbit/s

95th percentile per-packet one-way delay: 10.612 ms

Loss rate: 0.03%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-01-19 05:50:22

End at: 2019-01-19 05:50:52

Local clock offset: -3.288 ms

Remote clock offset: 0.71 ms

# Below is generated by plot.py at 2019-01-19 07:22:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 9.544 ms

Loss rate: 0.03%

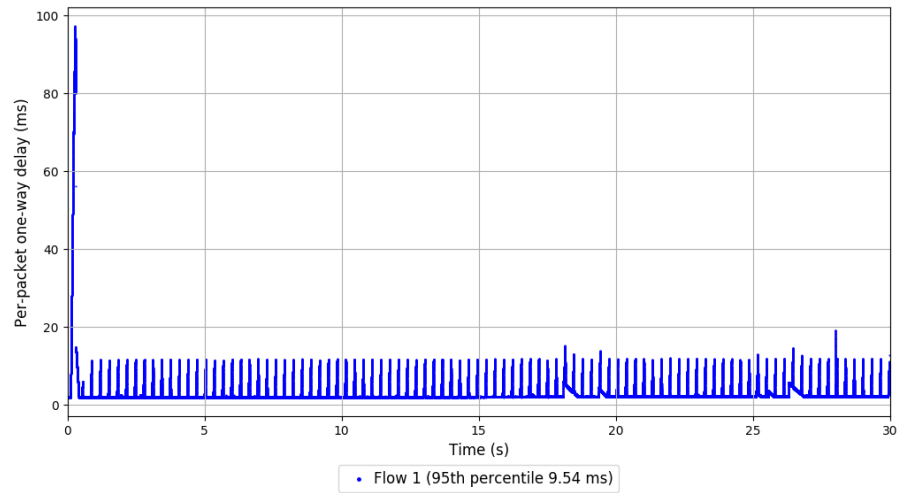
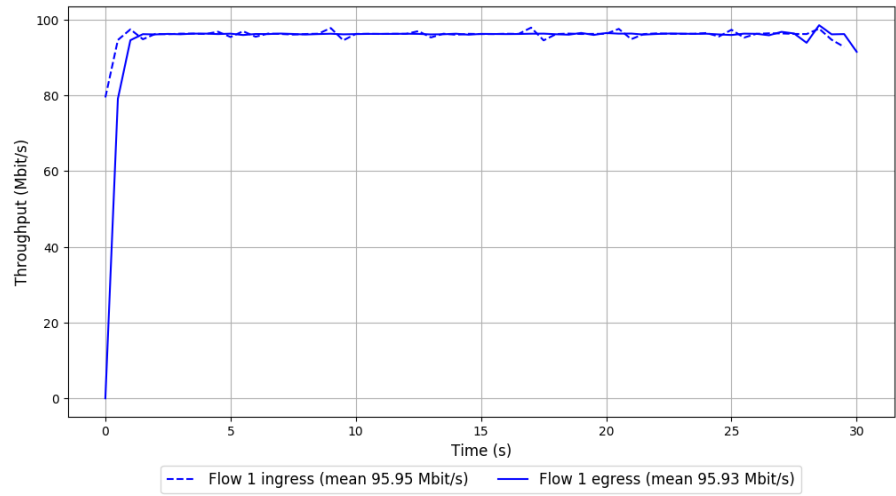
-- Flow 1:

Average throughput: 95.93 Mbit/s

95th percentile per-packet one-way delay: 9.544 ms

Loss rate: 0.03%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-19 06:14:05

End at: 2019-01-19 06:14:35

Local clock offset: -7.012 ms

Remote clock offset: 0.812 ms

# Below is generated by plot.py at 2019-01-19 07:22:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 10.486 ms

Loss rate: 0.04%

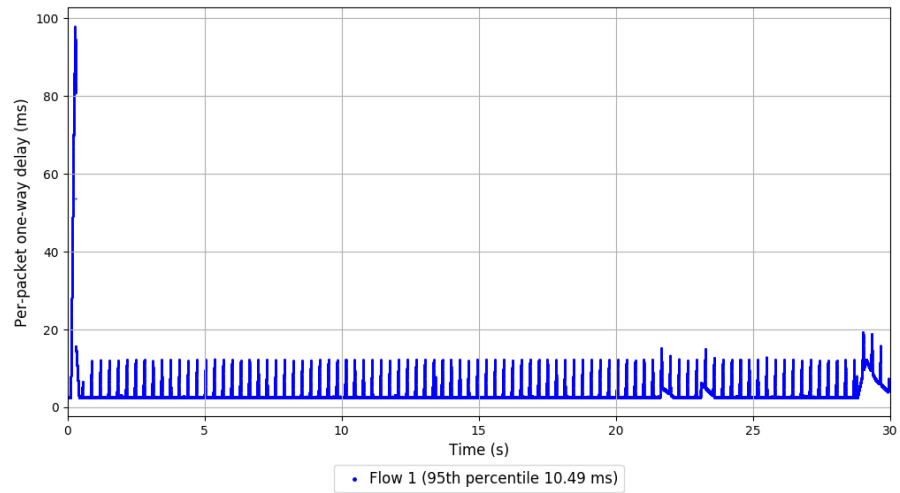
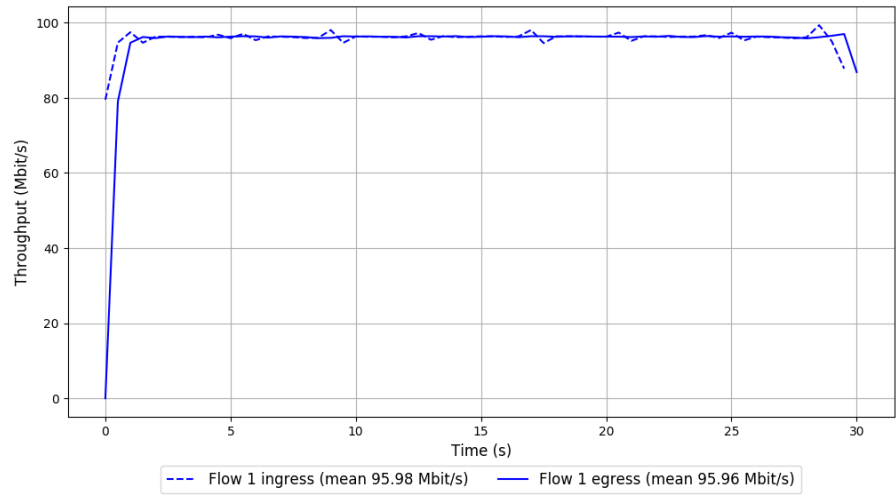
-- Flow 1:

Average throughput: 95.96 Mbit/s

95th percentile per-packet one-way delay: 10.486 ms

Loss rate: 0.04%

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



Run 4: Statistics of FillP

Start at: 2019-01-19 06:37:49

End at: 2019-01-19 06:38:19

Local clock offset: -7.58 ms

Remote clock offset: 0.932 ms

# Below is generated by plot.py at 2019-01-19 07:22:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.90 Mbit/s

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

Loss rate: 0.03%

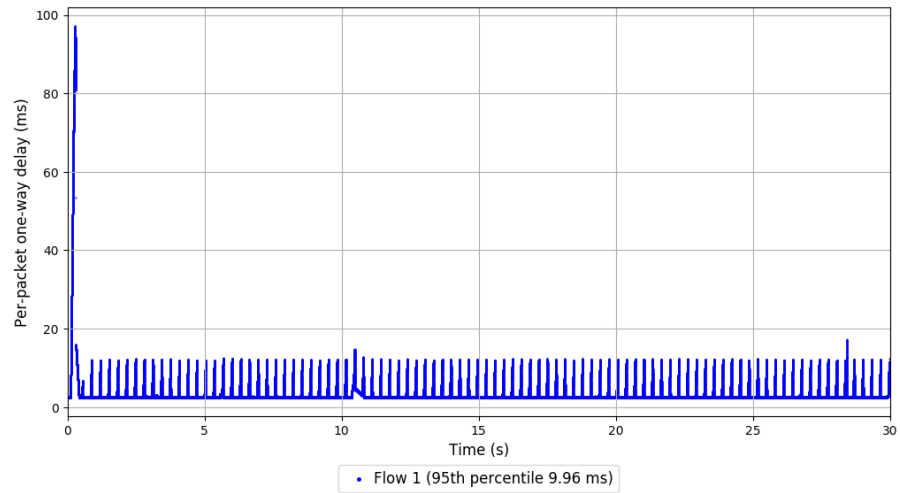
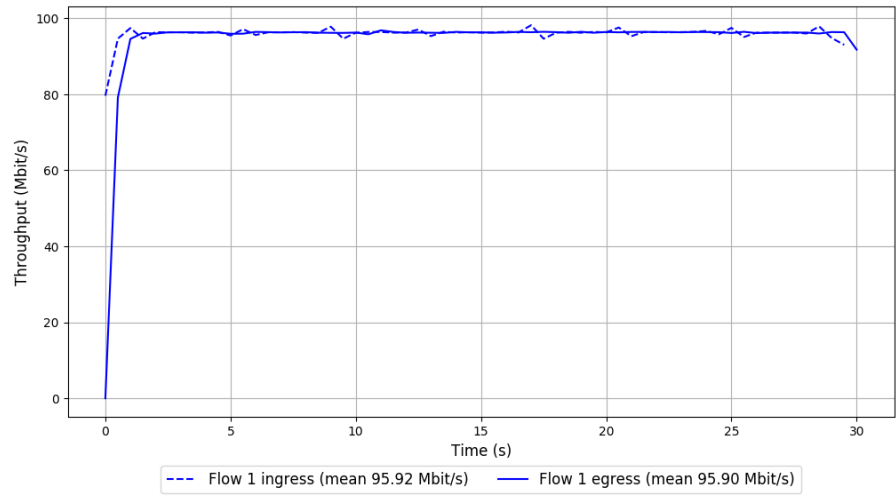
-- Flow 1:

Average throughput: 95.90 Mbit/s

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

Loss rate: 0.03%

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



Run 5: Statistics of FillP

Start at: 2019-01-19 07:01:39

End at: 2019-01-19 07:02:09

Local clock offset: -7.164 ms

Remote clock offset: 1.186 ms

# Below is generated by plot.py at 2019-01-19 07:22:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 9.737 ms

Loss rate: 0.03%

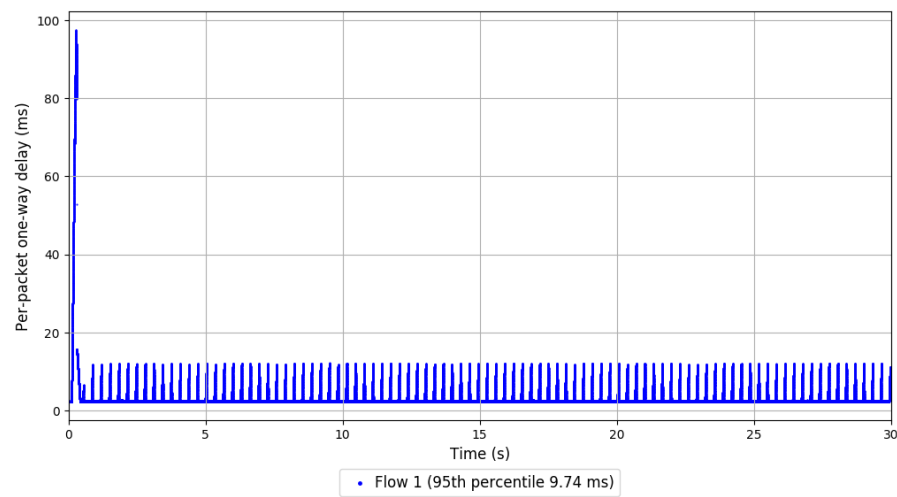
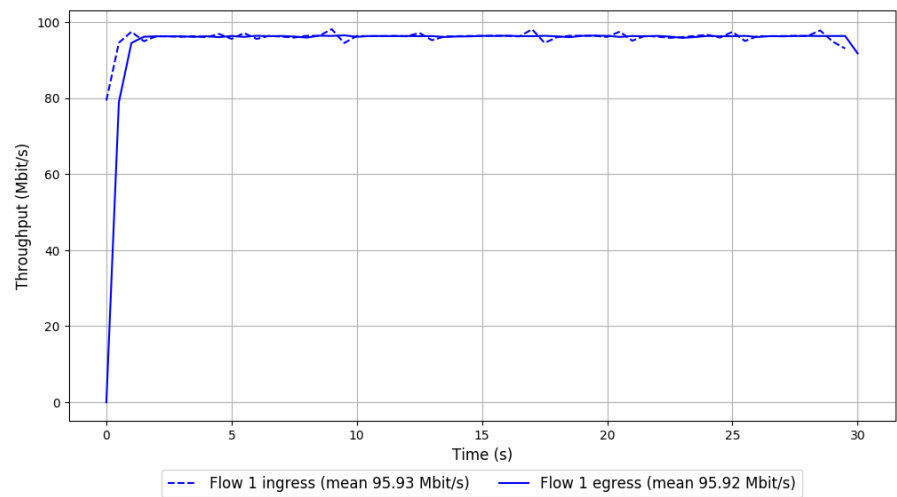
-- Flow 1:

Average throughput: 95.92 Mbit/s

95th percentile per-packet one-way delay: 9.737 ms

Loss rate: 0.03%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-19 05:18:45

End at: 2019-01-19 05:19:15

Local clock offset: -0.831 ms

Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2019-01-19 07:22:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 6.370 ms

Loss rate: 0.02%

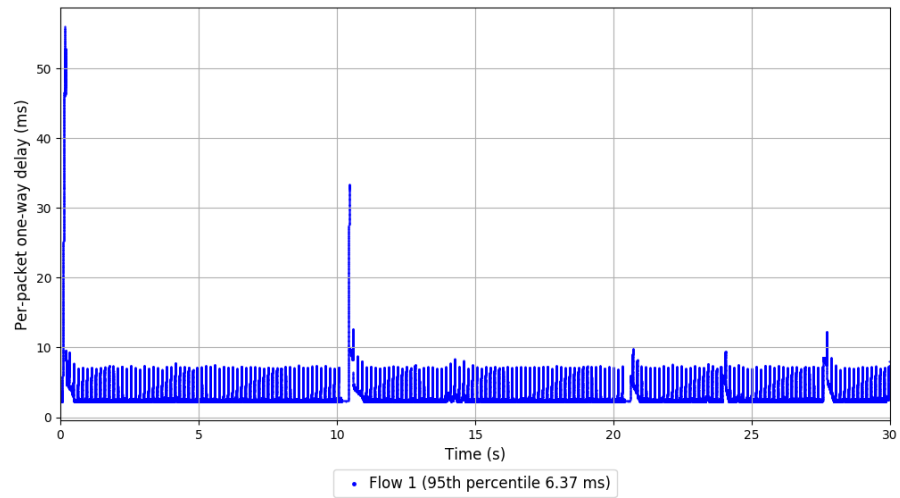
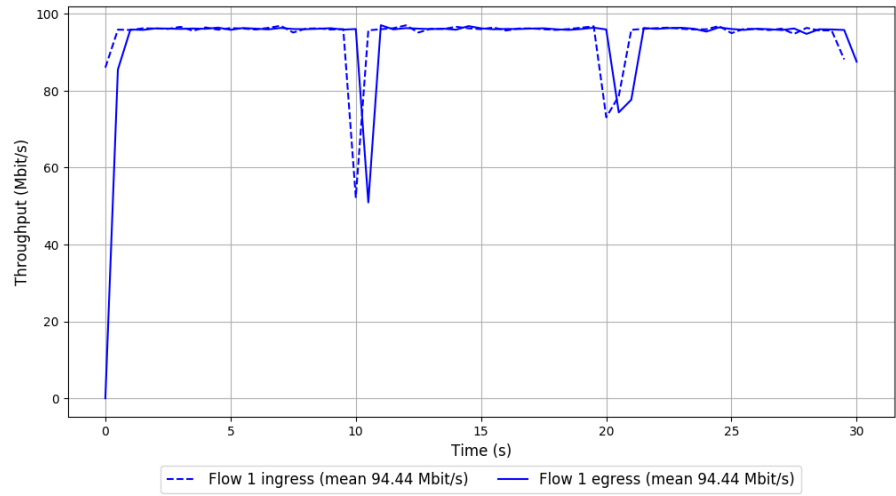
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 6.370 ms

Loss rate: 0.02%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-19 05:42:29

End at: 2019-01-19 05:42:59

Local clock offset: -1.487 ms

Remote clock offset: 0.689 ms

# Below is generated by plot.py at 2019-01-19 07:22:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 5.516 ms

Loss rate: 0.06%

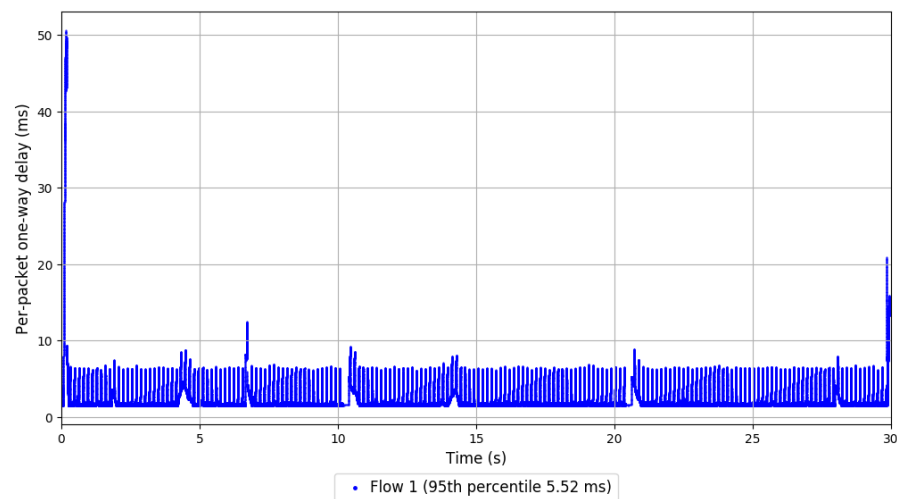
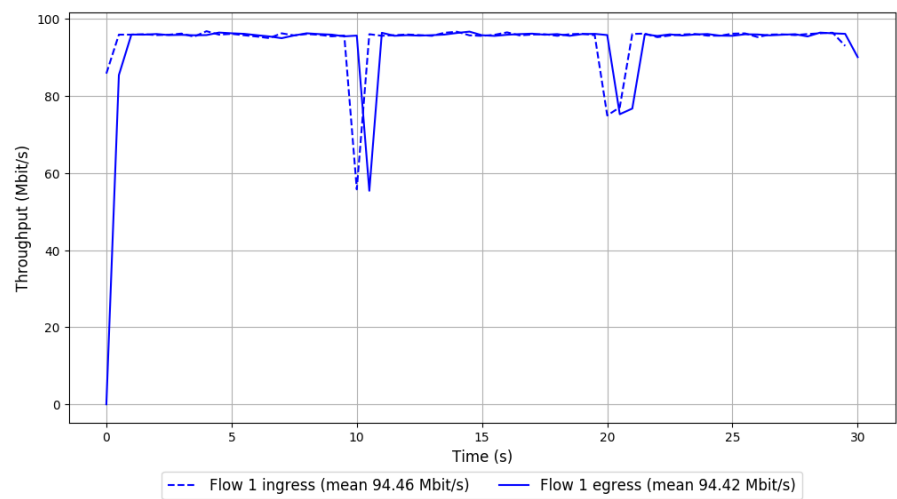
-- Flow 1:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 5.516 ms

Loss rate: 0.06%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-01-19 06:06:14

End at: 2019-01-19 06:06:44

Local clock offset: -6.313 ms

Remote clock offset: 0.824 ms

# Below is generated by plot.py at 2019-01-19 07:22:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.32 Mbit/s

95th percentile per-packet one-way delay: 6.707 ms

Loss rate: 0.02%

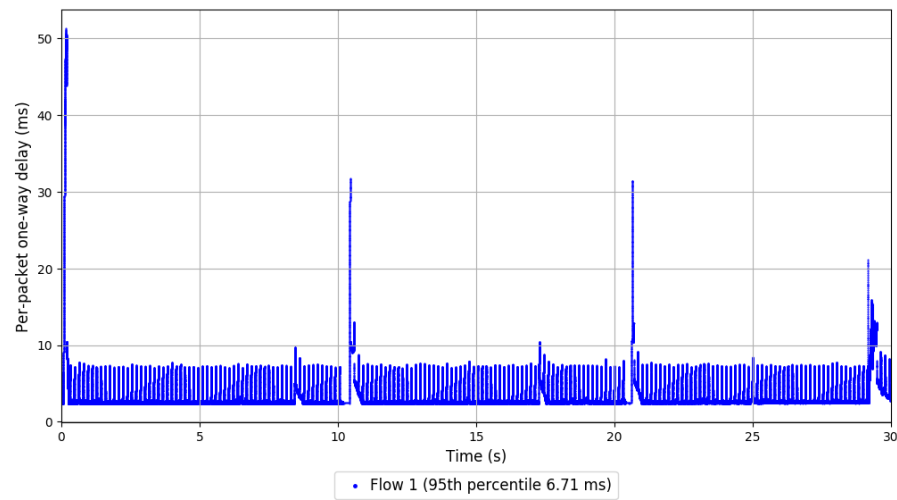
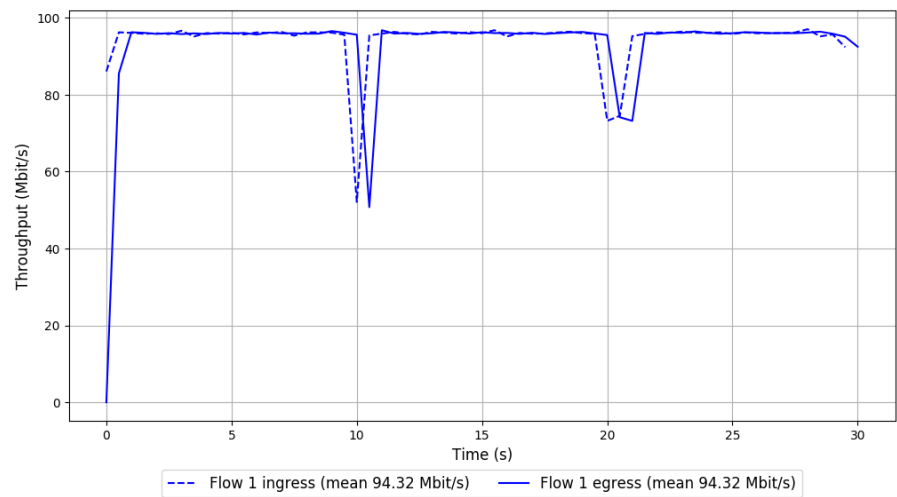
-- Flow 1:

Average throughput: 94.32 Mbit/s

95th percentile per-packet one-way delay: 6.707 ms

Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-19 06:29:57

End at: 2019-01-19 06:30:27

Local clock offset: -7.385 ms

Remote clock offset: 0.909 ms

# Below is generated by plot.py at 2019-01-19 07:23:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.32 Mbit/s

95th percentile per-packet one-way delay: 6.352 ms

Loss rate: 0.03%

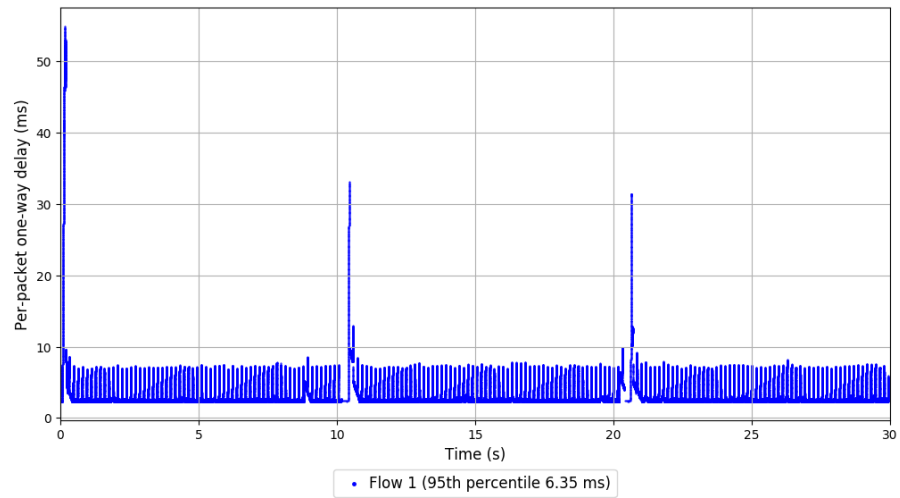
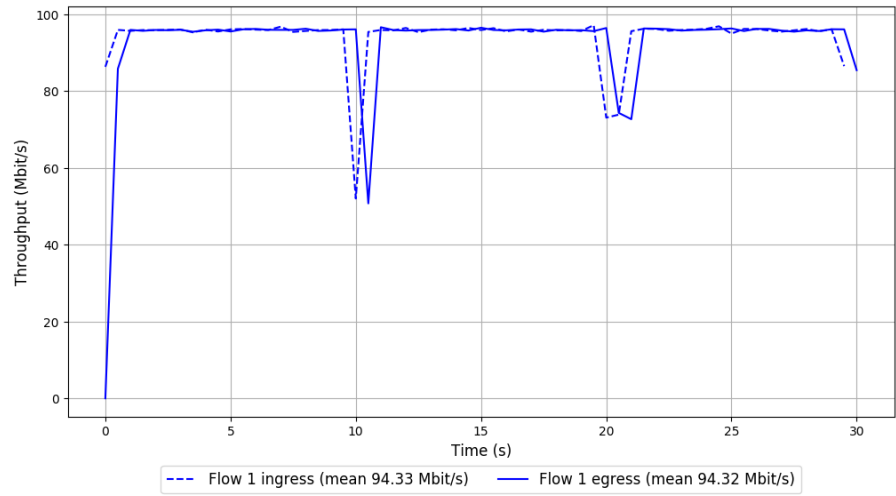
-- Flow 1:

Average throughput: 94.32 Mbit/s

95th percentile per-packet one-way delay: 6.352 ms

Loss rate: 0.03%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-19 06:53:41

End at: 2019-01-19 06:54:11

Local clock offset: -8.18 ms

Remote clock offset: 1.215 ms

# Below is generated by plot.py at 2019-01-19 07:23:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 5.658 ms

Loss rate: 0.02%

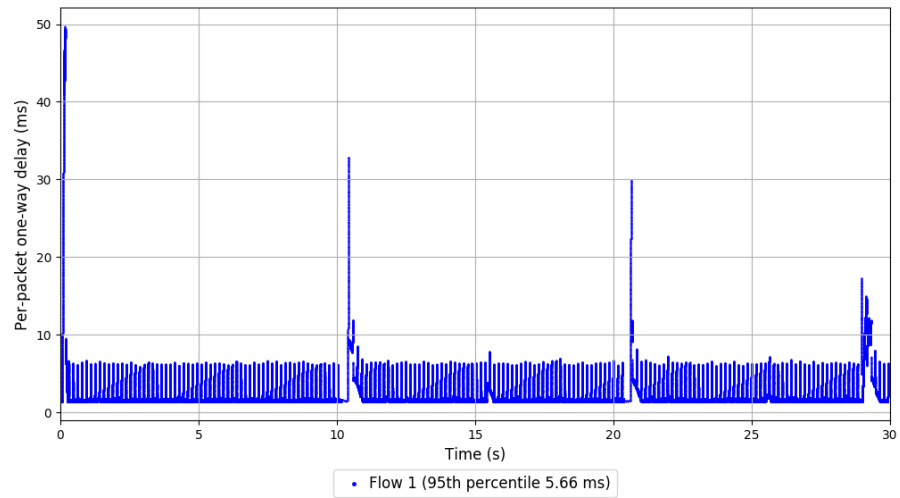
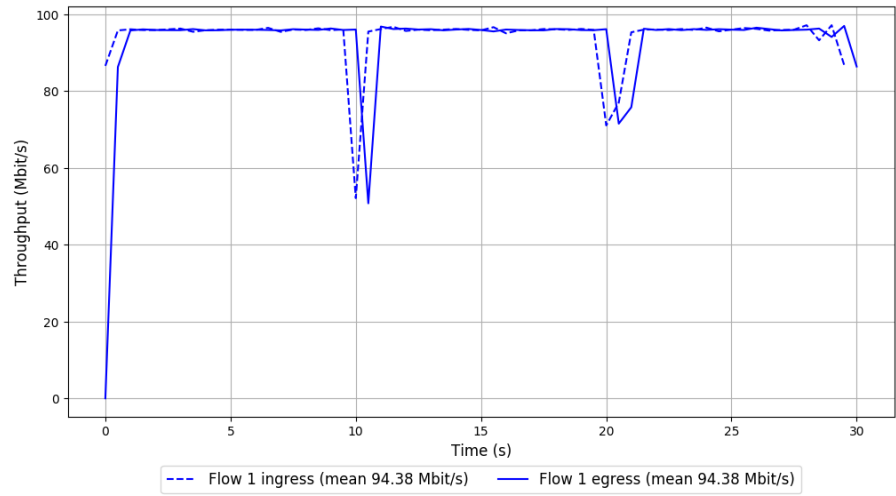
-- Flow 1:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 5.658 ms

Loss rate: 0.02%

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

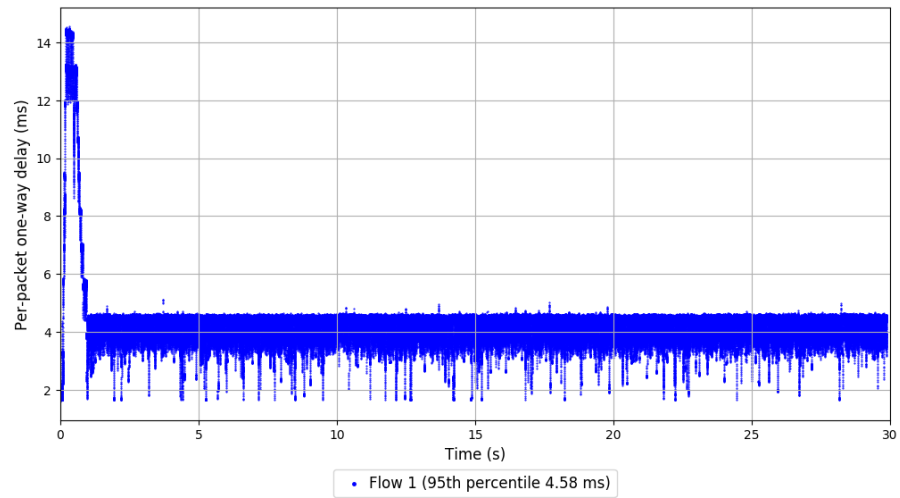
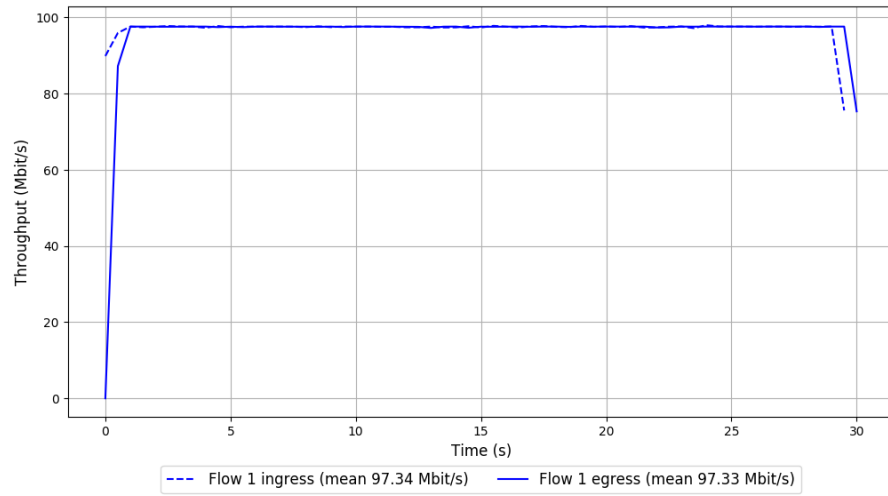


```
Run 1: Statistics of Indigo

Start at: 2019-01-19 05:31:12
End at: 2019-01-19 05:31:42
Local clock offset: -1.72 ms
Remote clock offset: 0.457 ms

# Below is generated by plot.py at 2019-01-19 07:23:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 4.578 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 4.578 ms
Loss rate: 0.02%
```

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-19 05:54:56

End at: 2019-01-19 05:55:26

Local clock offset: -4.222 ms

Remote clock offset: 0.781 ms

# Below is generated by plot.py at 2019-01-19 07:23:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 5.587 ms

Loss rate: 0.02%

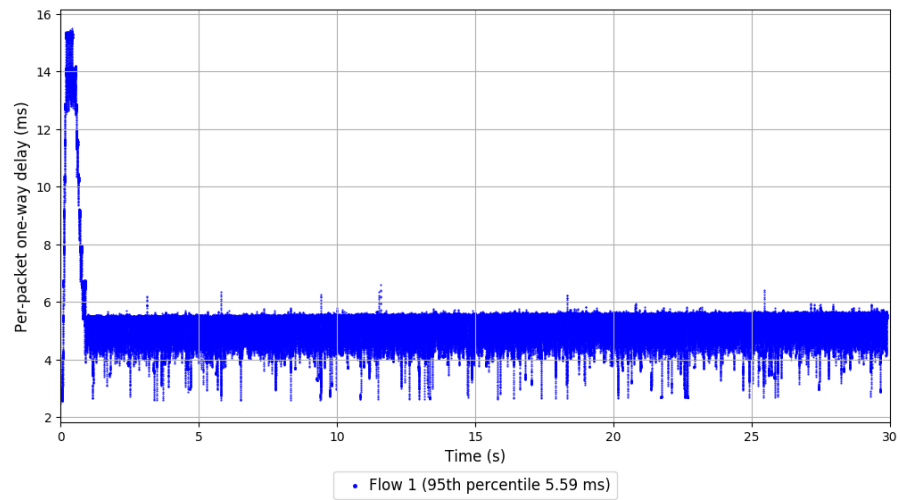
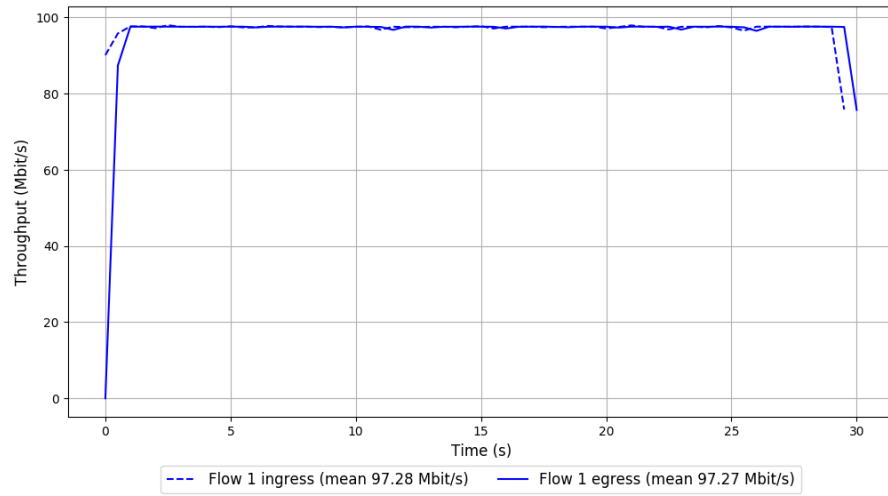
-- Flow 1:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 5.587 ms

Loss rate: 0.02%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-19 06:18:39

End at: 2019-01-19 06:19:09

Local clock offset: -7.242 ms

Remote clock offset: 0.998 ms

# Below is generated by plot.py at 2019-01-19 07:23:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 4.956 ms

Loss rate: 0.02%

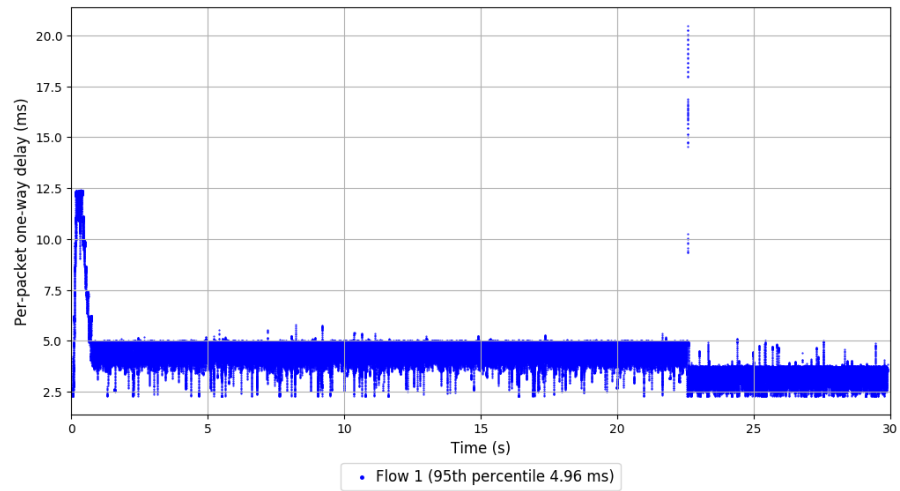
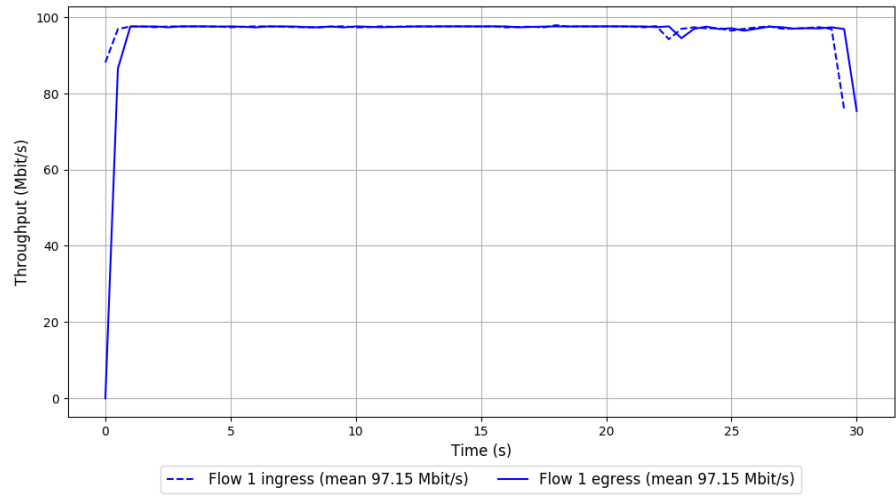
-- Flow 1:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 4.956 ms

Loss rate: 0.02%

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





Run 4: Statistics of Indigo

Start at: 2019-01-19 06:42:23

End at: 2019-01-19 06:42:53

Local clock offset: -7.746 ms

Remote clock offset: 0.938 ms

# Below is generated by plot.py at 2019-01-19 07:24:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 5.498 ms

Loss rate: 0.02%

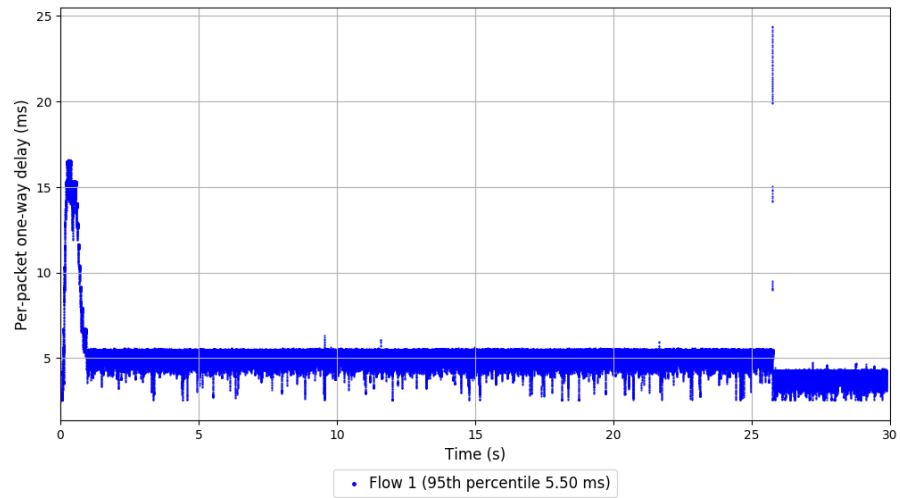
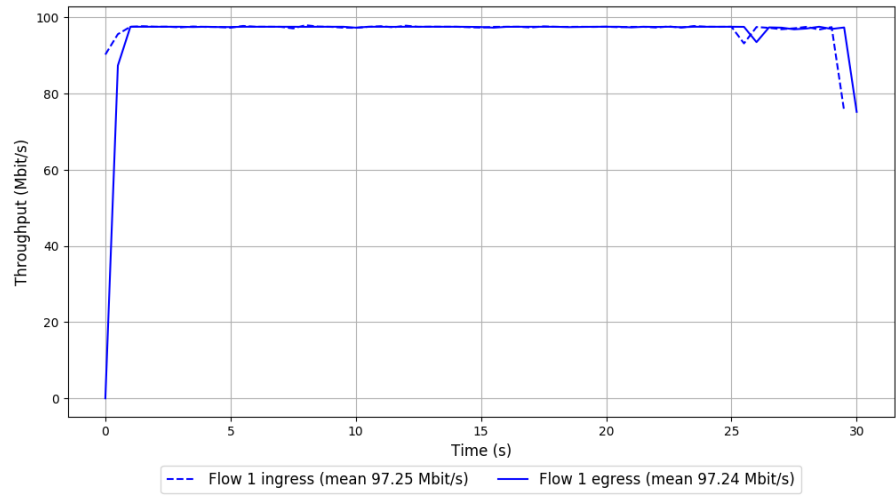
-- Flow 1:

Average throughput: 97.24 Mbit/s

95th percentile per-packet one-way delay: 5.498 ms

Loss rate: 0.02%

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



Run 5: Statistics of Indigo

Start at: 2019-01-19 07:06:10

End at: 2019-01-19 07:06:40

Local clock offset: -7.93 ms

Remote clock offset: 1.19 ms

# Below is generated by plot.py at 2019-01-19 07:24:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 4.513 ms

Loss rate: 0.02%

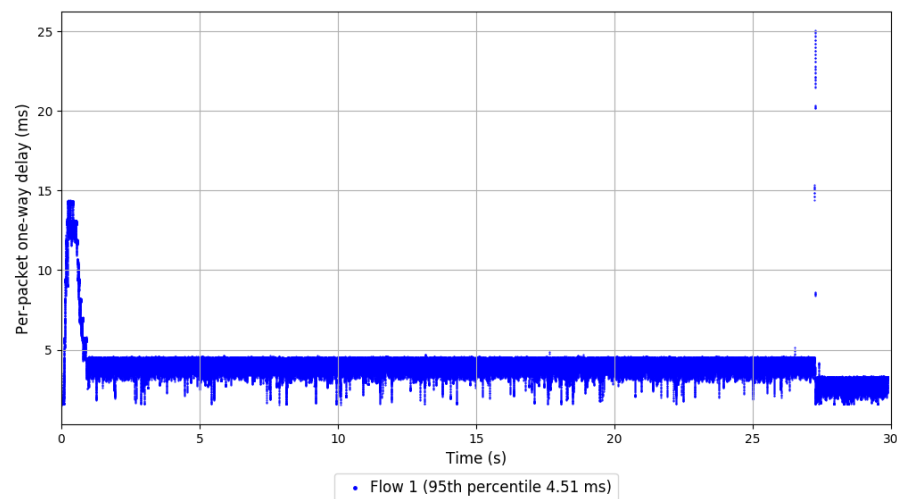
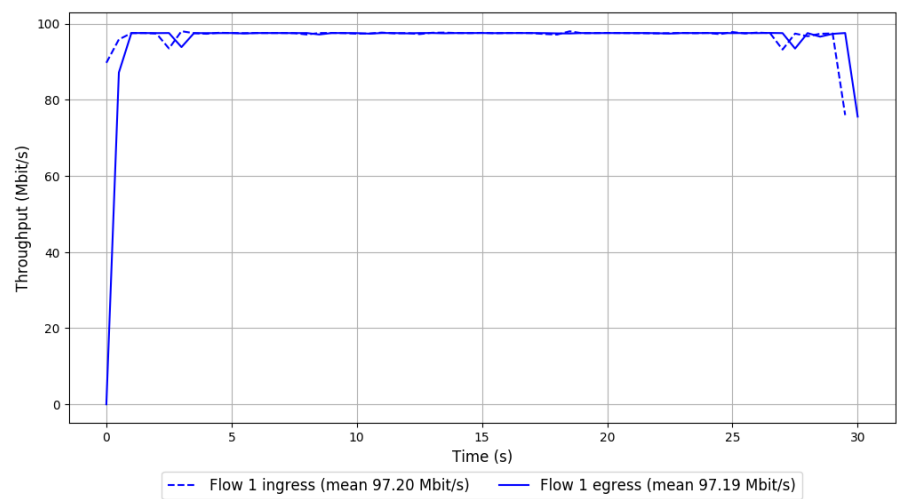
-- Flow 1:

Average throughput: 97.19 Mbit/s

95th percentile per-packet one-way delay: 4.513 ms

Loss rate: 0.02%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-19 05:39:04

End at: 2019-01-19 05:39:34

Local clock offset: -1.566 ms

Remote clock offset: 0.499 ms

# Below is generated by plot.py at 2019-01-19 07:24:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 2.946 ms

Loss rate: 0.02%

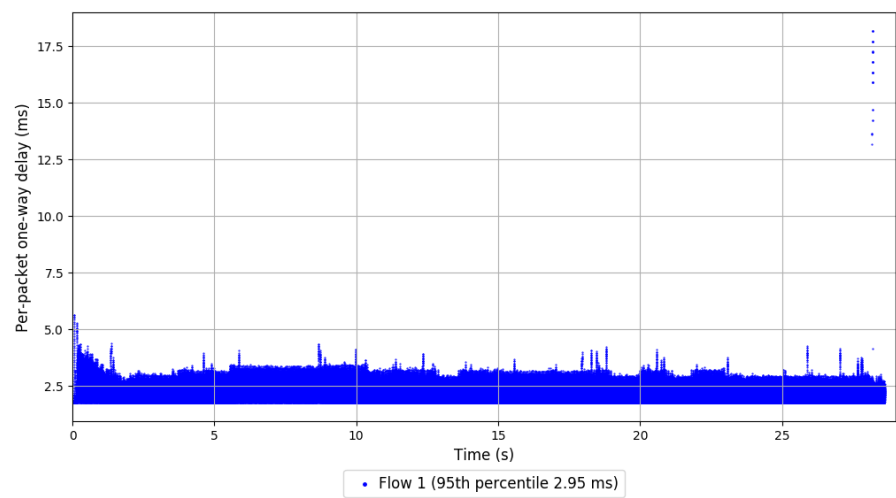
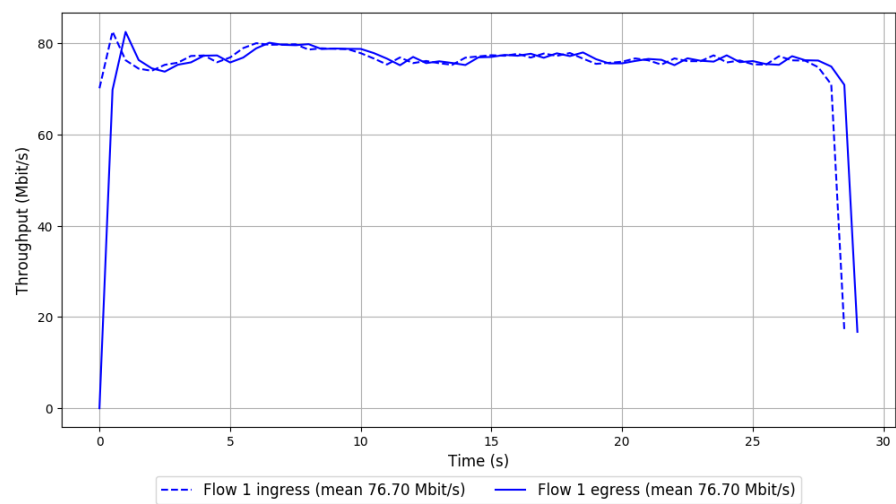
-- Flow 1:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 2.946 ms

Loss rate: 0.02%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:02:49

End at: 2019-01-19 06:03:19

Local clock offset: -6.628 ms

Remote clock offset: 0.833 ms

# Below is generated by plot.py at 2019-01-19 07:24:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.41 Mbit/s

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

Loss rate: 0.02%

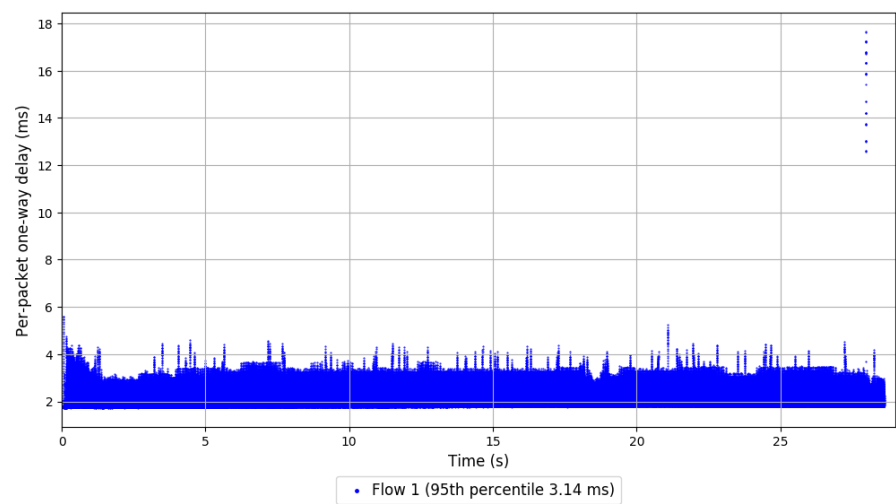
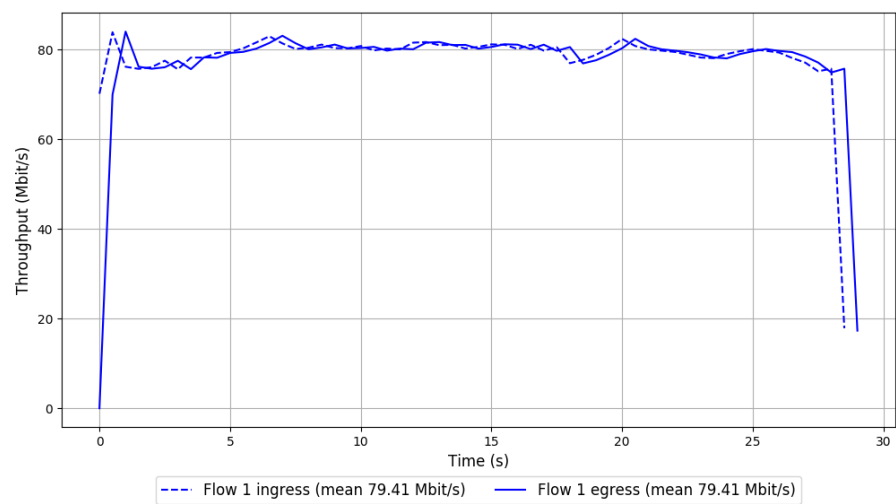
-- Flow 1:

Average throughput: 79.41 Mbit/s

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

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:26:32

End at: 2019-01-19 06:27:02

Local clock offset: -7.248 ms

Remote clock offset: 0.934 ms

# Below is generated by plot.py at 2019-01-19 07:24:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.56 Mbit/s

95th percentile per-packet one-way delay: 3.797 ms

Loss rate: 0.01%

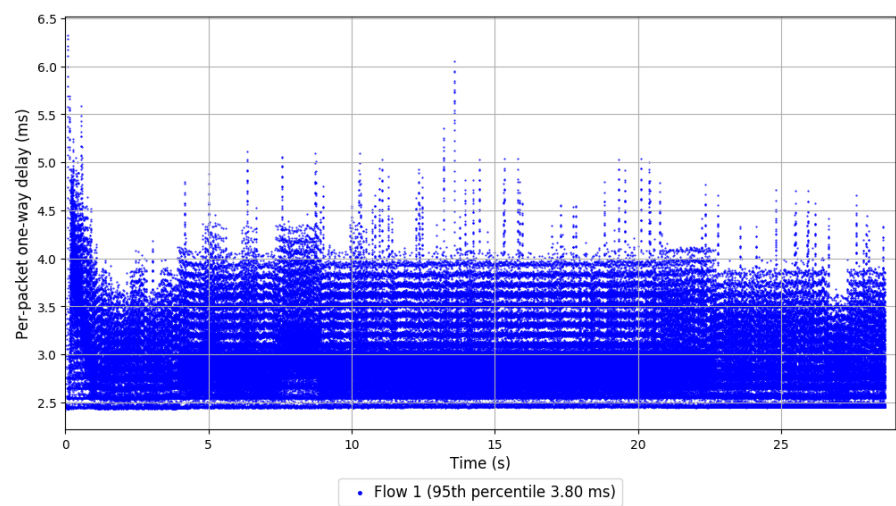
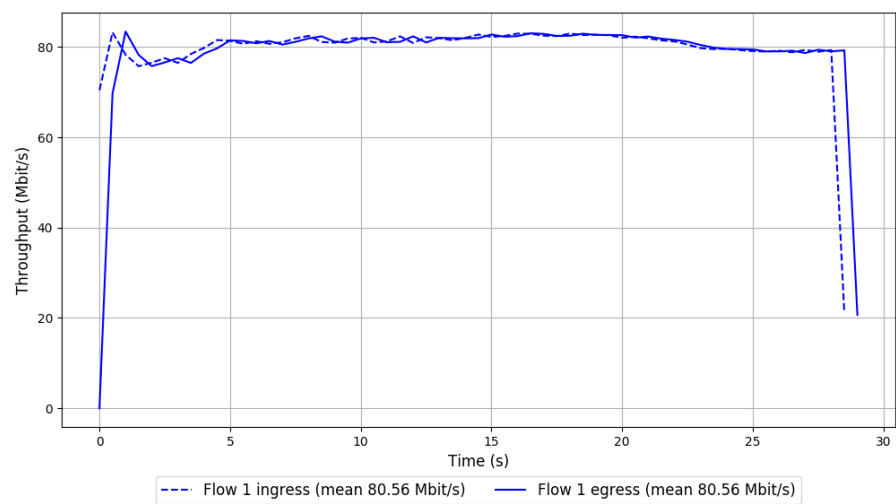
-- Flow 1:

Average throughput: 80.56 Mbit/s

95th percentile per-packet one-way delay: 3.797 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:50:16

End at: 2019-01-19 06:50:46

Local clock offset: -8.331 ms

Remote clock offset: 1.195 ms

# Below is generated by plot.py at 2019-01-19 07:24:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.15 Mbit/s

95th percentile per-packet one-way delay: 3.025 ms

Loss rate: 0.01%

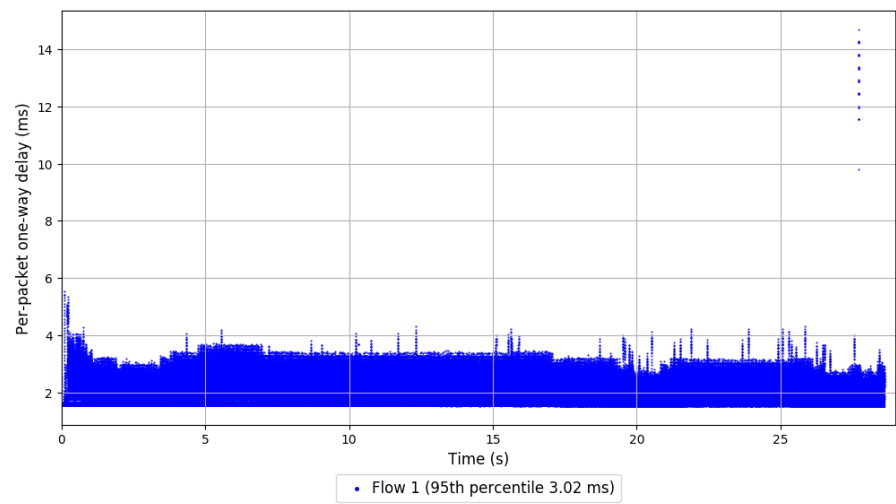
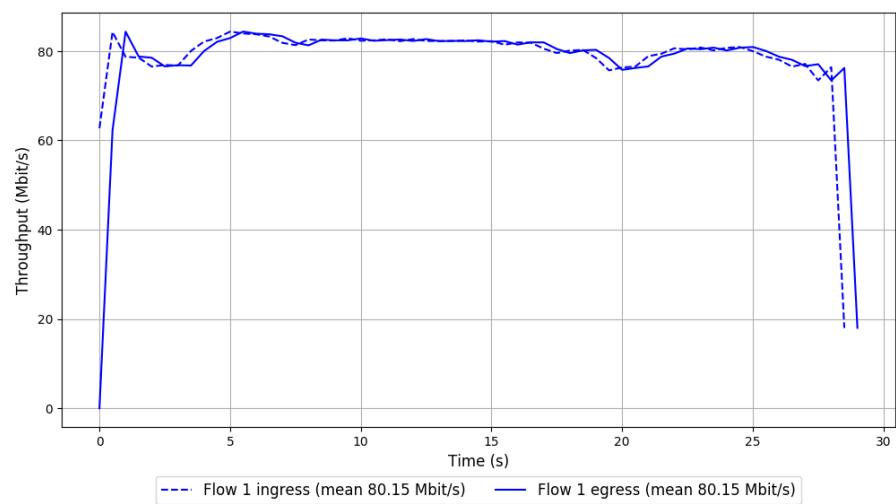
-- Flow 1:

Average throughput: 80.15 Mbit/s

95th percentile per-packet one-way delay: 3.025 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-19 07:14:03

End at: 2019-01-19 07:14:33

Local clock offset: -7.98 ms

Remote clock offset: 1.176 ms

# Below is generated by plot.py at 2019-01-19 07:24:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.24 Mbit/s

95th percentile per-packet one-way delay: 3.089 ms

Loss rate: 0.02%

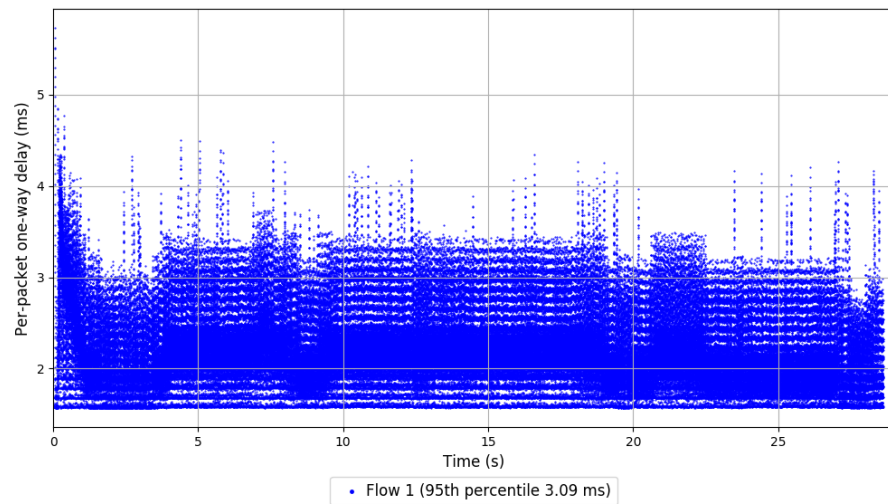
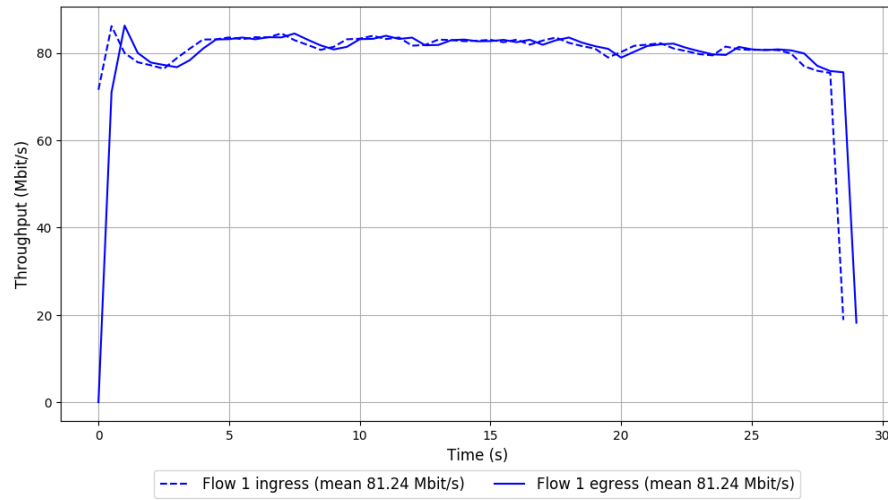
-- Flow 1:

Average throughput: 81.24 Mbit/s

95th percentile per-packet one-way delay: 3.089 ms

Loss rate: 0.02%

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



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-19 05:20:56

End at: 2019-01-19 05:21:26

Local clock offset: -0.86 ms

Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2019-01-19 07:24:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.75 Mbit/s

95th percentile per-packet one-way delay: 4.361 ms

Loss rate: 0.01%

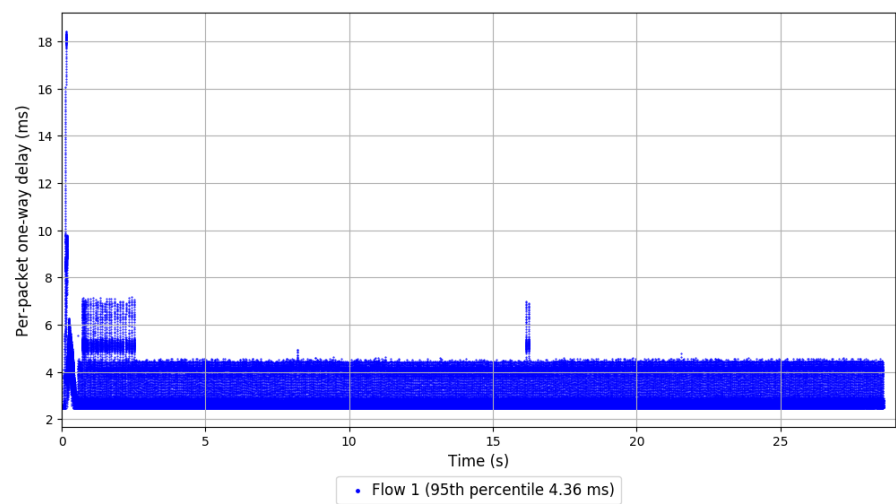
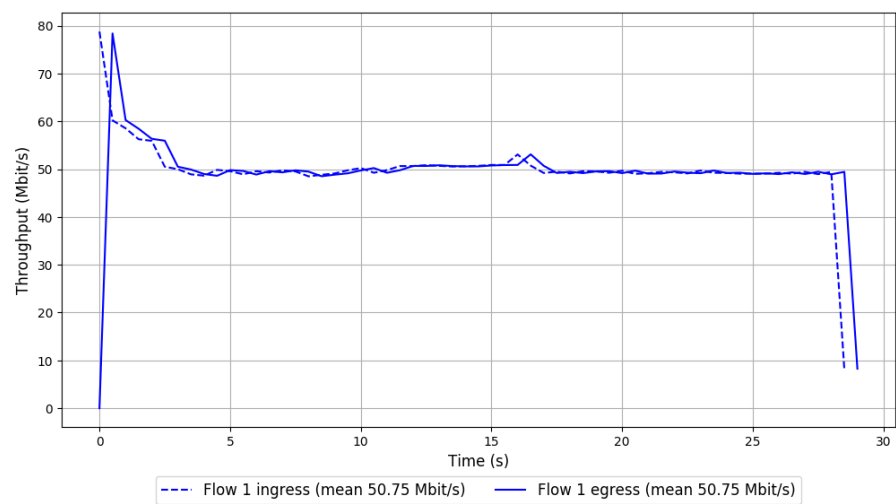
-- Flow 1:

Average throughput: 50.75 Mbit/s

95th percentile per-packet one-way delay: 4.361 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-19 05:44:41

End at: 2019-01-19 05:45:11

Local clock offset: -0.692 ms

Remote clock offset: 0.685 ms

# Below is generated by plot.py at 2019-01-19 07:24:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 3.952 ms

Loss rate: 0.01%

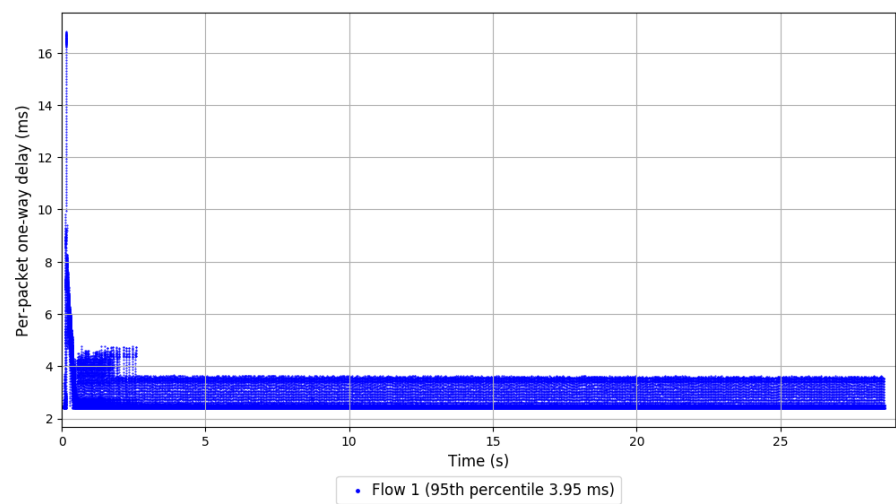
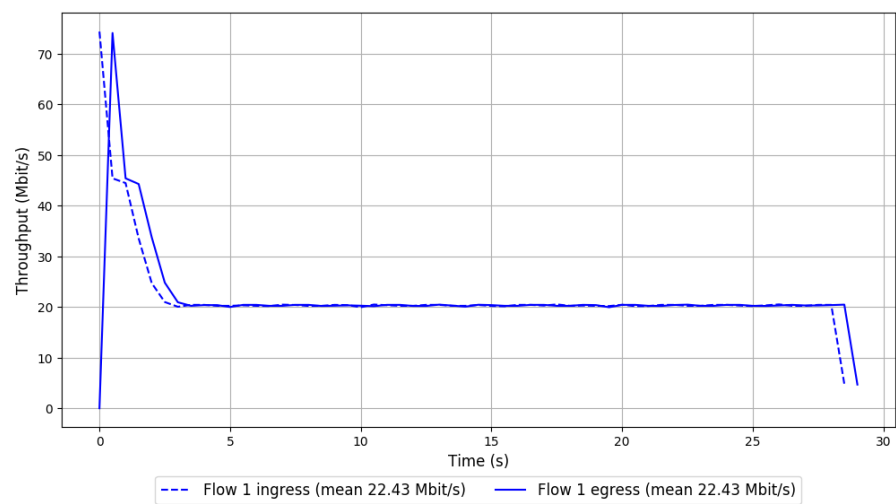
-- Flow 1:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 3.952 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:08:25

End at: 2019-01-19 06:08:55

Local clock offset: -7.32 ms

Remote clock offset: 0.847 ms

# Below is generated by plot.py at 2019-01-19 07:24:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 2.113 ms

Loss rate: 0.01%

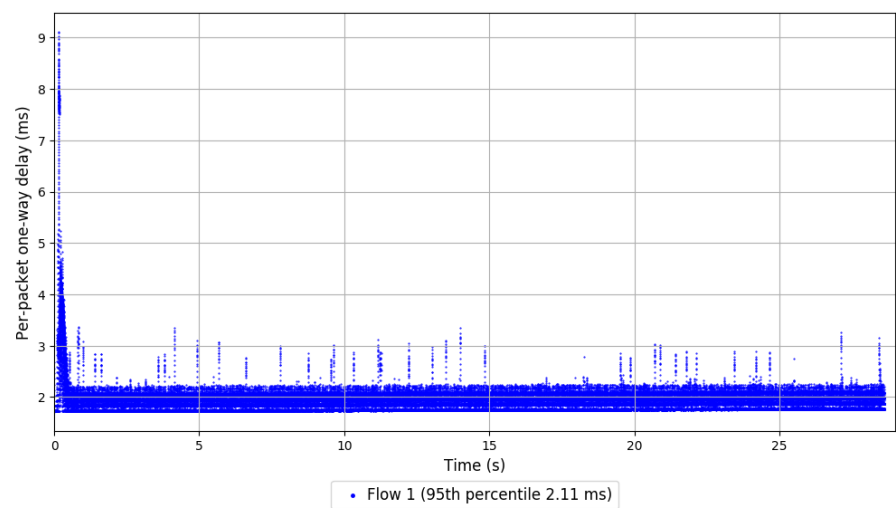
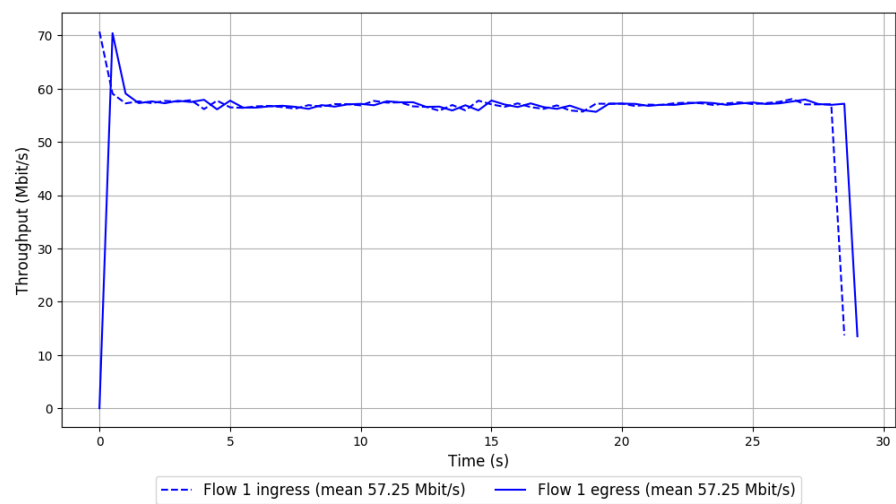
-- Flow 1:

Average throughput: 57.25 Mbit/s

95th percentile per-packet one-way delay: 2.113 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:32:08

End at: 2019-01-19 06:32:38

Local clock offset: -8.147 ms

Remote clock offset: 1.012 ms

# Below is generated by plot.py at 2019-01-19 07:24:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 3.429 ms

Loss rate: 0.01%

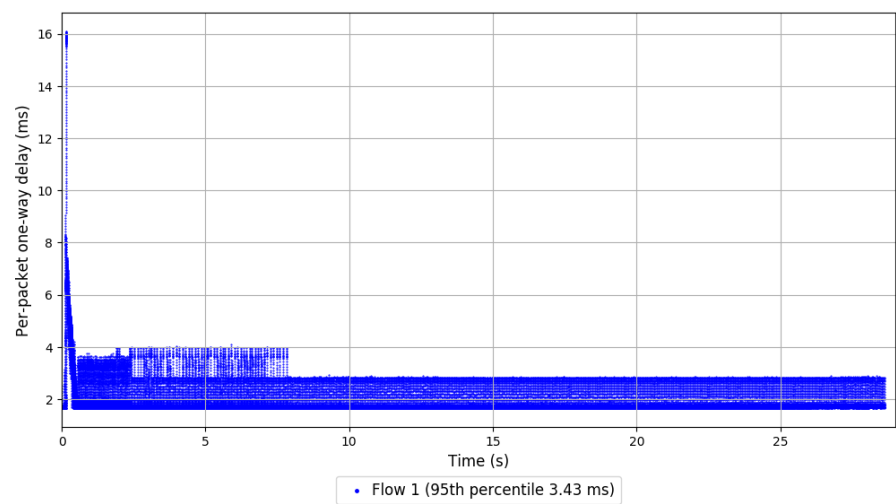
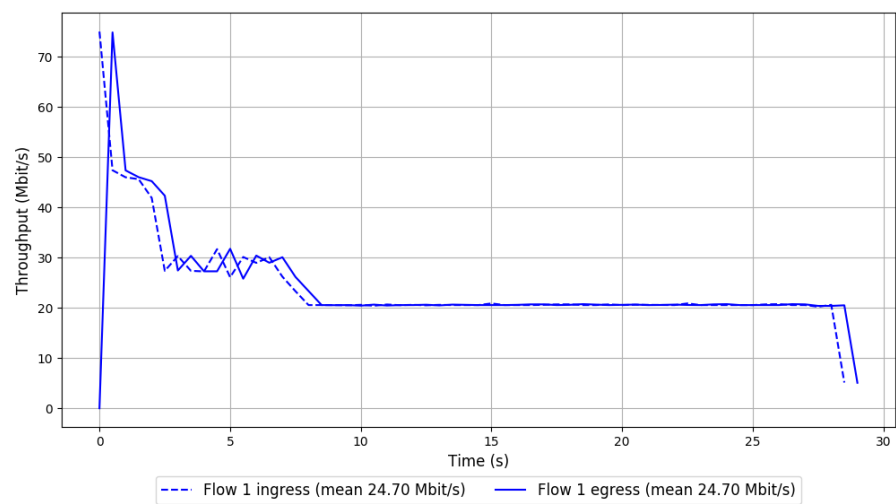
-- Flow 1:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 3.429 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:55:57

End at: 2019-01-19 06:56:27

Local clock offset: -7.295 ms

Remote clock offset: 1.14 ms

# Below is generated by plot.py at 2019-01-19 07:24:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.16 Mbit/s

95th percentile per-packet one-way delay: 4.182 ms

Loss rate: 0.02%

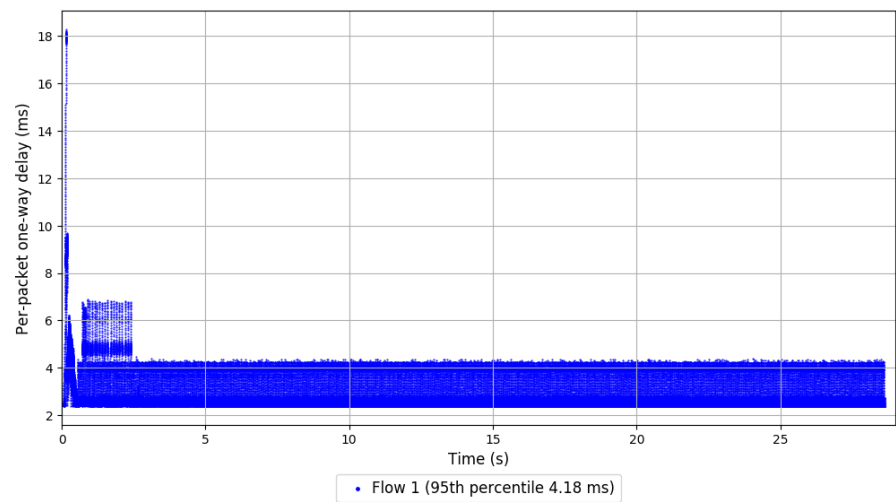
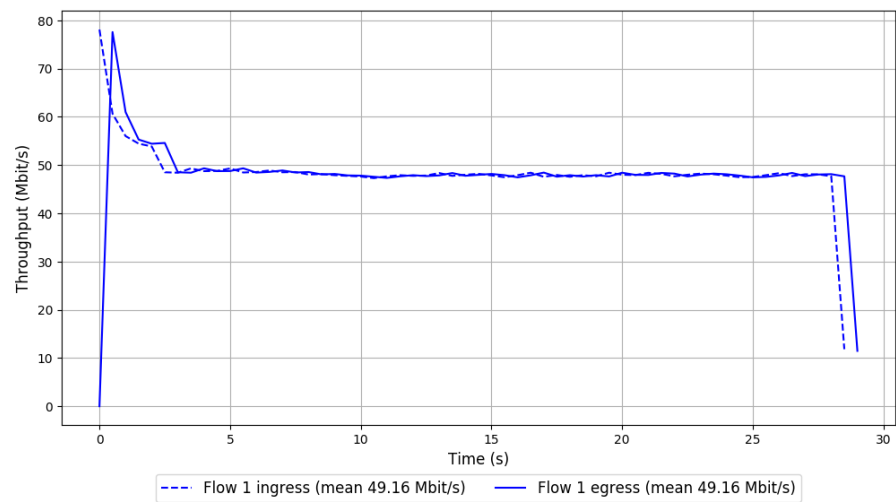
-- Flow 1:

Average throughput: 49.16 Mbit/s

95th percentile per-packet one-way delay: 4.182 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesC5 — Data Link



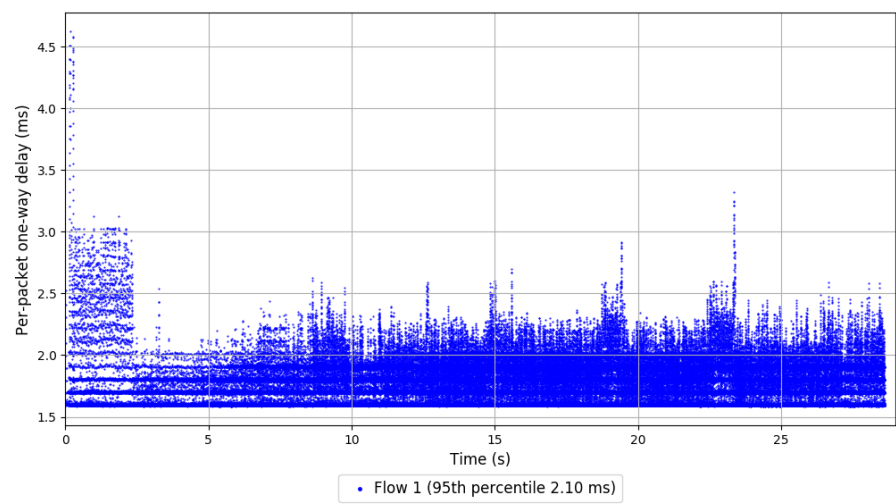
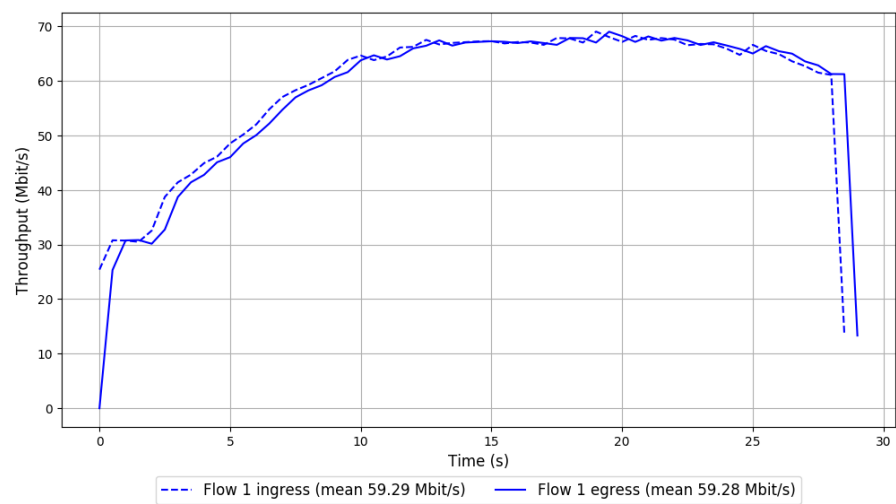


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-19 05:34:38
End at: 2019-01-19 05:35:08
Local clock offset: -1.668 ms
Remote clock offset: 0.574 ms

# Below is generated by plot.py at 2019-01-19 07:24:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.28 Mbit/s
95th percentile per-packet one-way delay: 2.101 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 59.28 Mbit/s
95th percentile per-packet one-way delay: 2.101 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-19 05:58:22

End at: 2019-01-19 05:58:52

Local clock offset: -5.11 ms

Remote clock offset: 0.884 ms

# Below is generated by plot.py at 2019-01-19 07:25:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.78 Mbit/s

95th percentile per-packet one-way delay: 3.106 ms

Loss rate: 0.02%

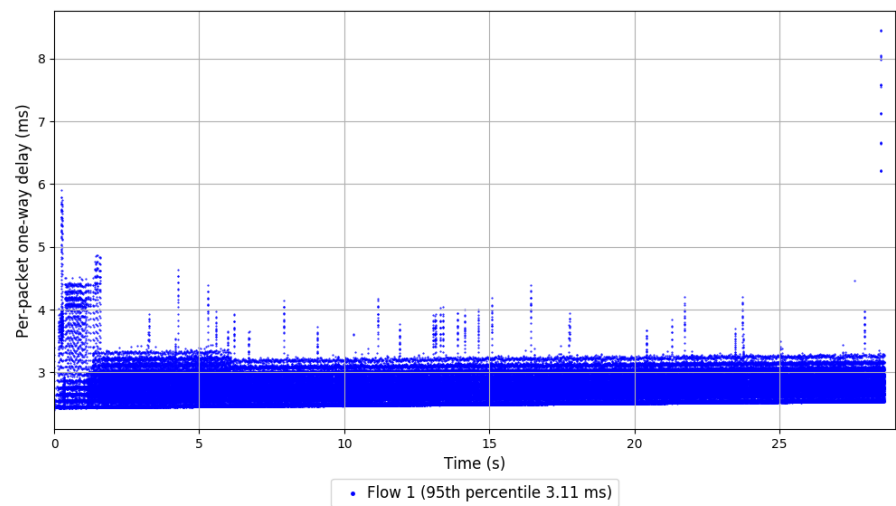
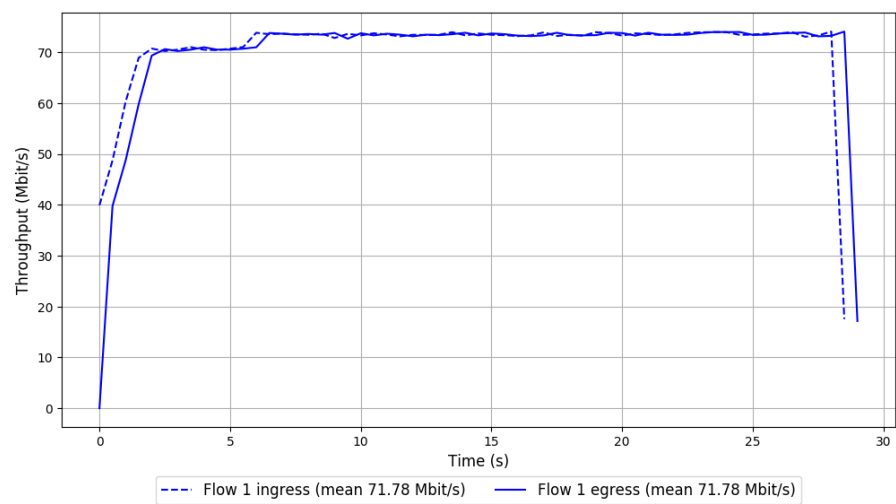
-- Flow 1:

Average throughput: 71.78 Mbit/s

95th percentile per-packet one-way delay: 3.106 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-19 06:22:05

End at: 2019-01-19 06:22:35

Local clock offset: -7.937 ms

Remote clock offset: 0.944 ms

# Below is generated by plot.py at 2019-01-19 07:25:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 2.261 ms

Loss rate: 0.02%

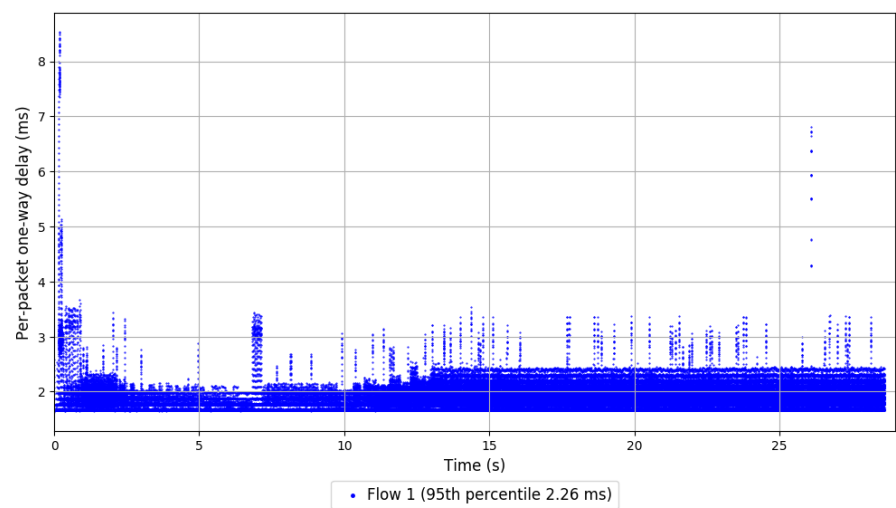
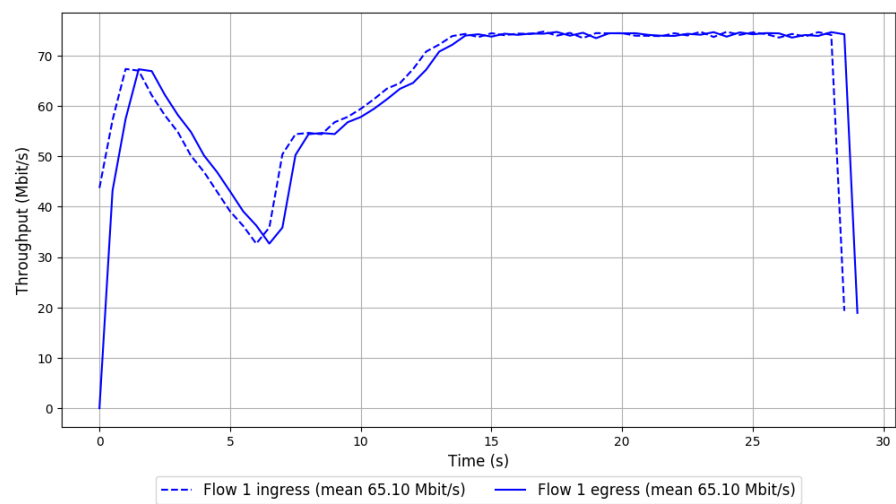
-- Flow 1:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 2.261 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-19 06:45:49

End at: 2019-01-19 06:46:19

Local clock offset: -7.941 ms

Remote clock offset: 1.073 ms

# Below is generated by plot.py at 2019-01-19 07:25:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.19 Mbit/s

95th percentile per-packet one-way delay: 3.053 ms

Loss rate: 0.02%

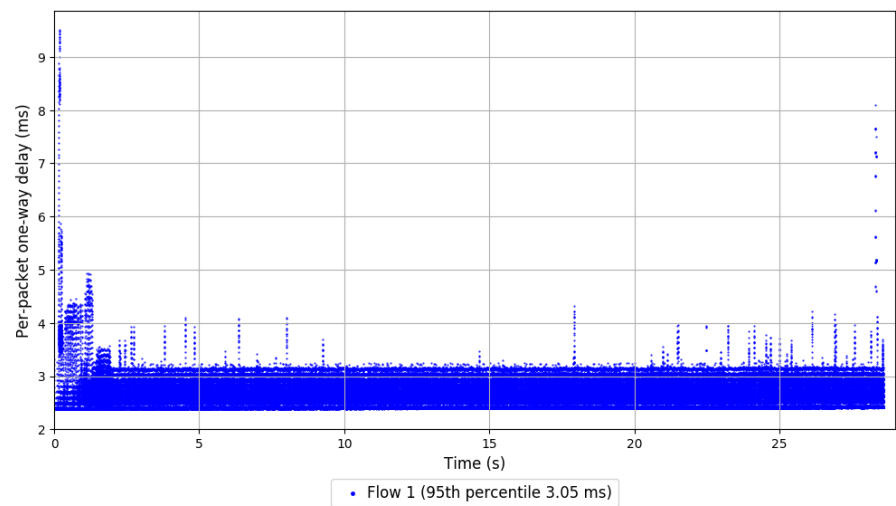
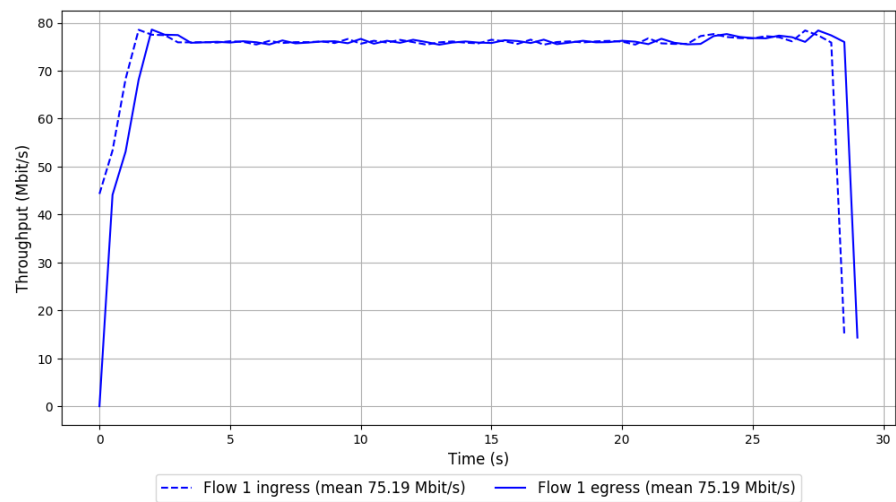
-- Flow 1:

Average throughput: 75.19 Mbit/s

95th percentile per-packet one-way delay: 3.053 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-19 07:09:35

End at: 2019-01-19 07:10:05

Local clock offset: -7.177 ms

Remote clock offset: 1.131 ms

# Below is generated by plot.py at 2019-01-19 07:25:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 3.071 ms

Loss rate: 0.01%

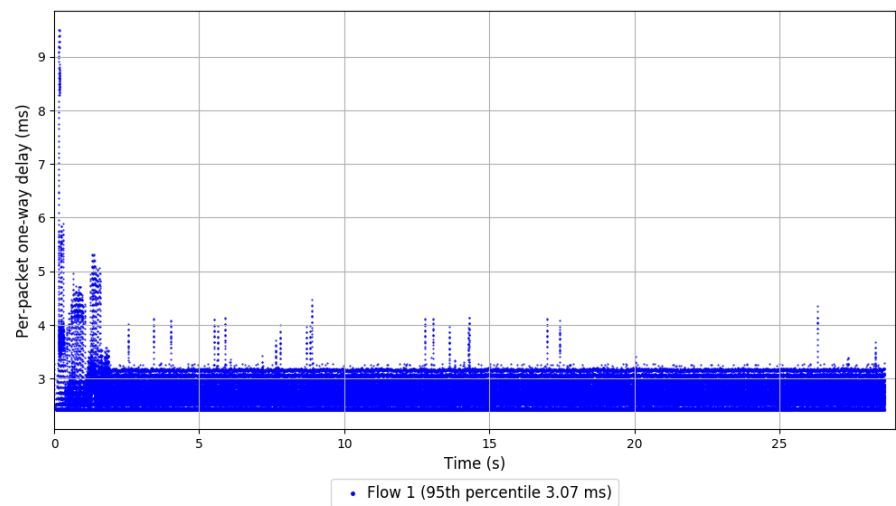
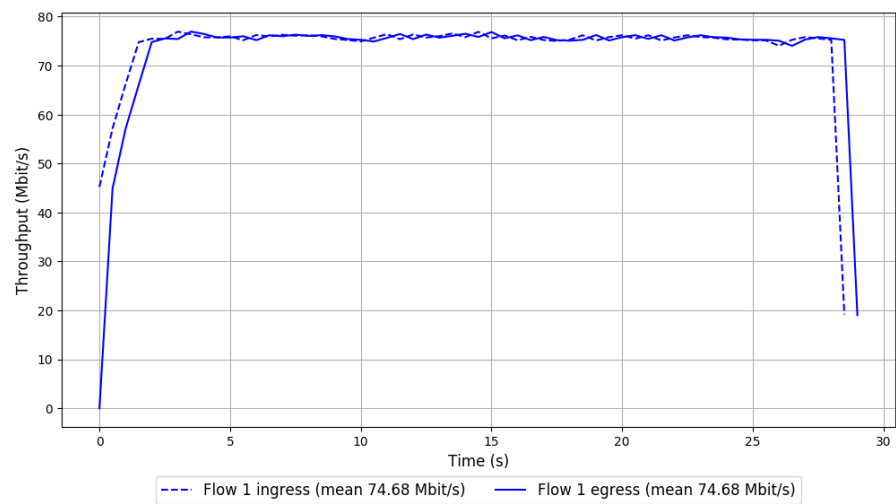
-- Flow 1:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 3.071 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-19 05:37:57

End at: 2019-01-19 05:38:27

Local clock offset: -1.589 ms

Remote clock offset: 0.481 ms

# Below is generated by plot.py at 2019-01-19 07:25:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.13 Mbit/s

95th percentile per-packet one-way delay: 2.825 ms

Loss rate: 0.01%

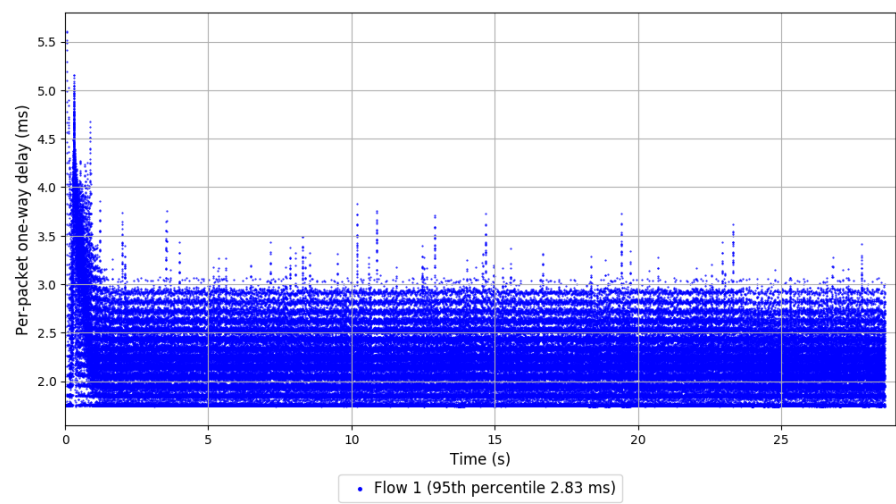
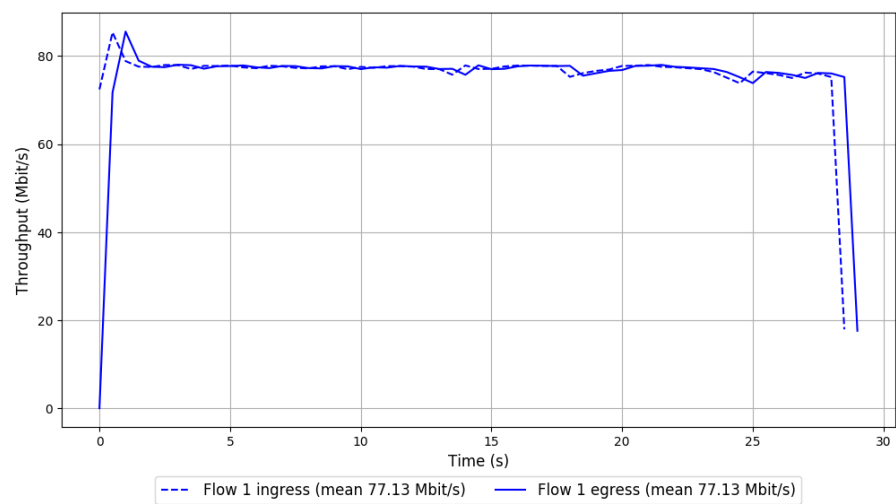
-- Flow 1:

Average throughput: 77.13 Mbit/s

95th percentile per-packet one-way delay: 2.825 ms

Loss rate: 0.01%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:01:41

End at: 2019-01-19 06:02:11

Local clock offset: -6.541 ms

Remote clock offset: 0.889 ms

# Below is generated by plot.py at 2019-01-19 07:25:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.79 Mbit/s

95th percentile per-packet one-way delay: 2.906 ms

Loss rate: 0.02%

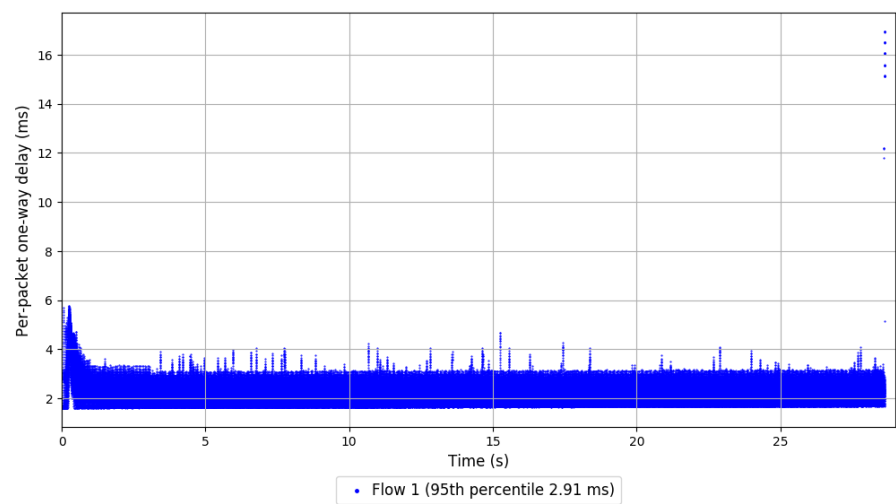
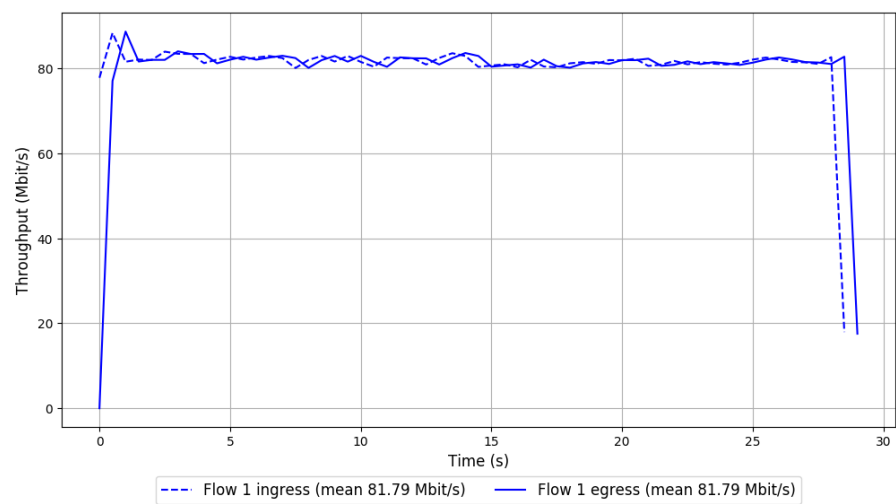
-- Flow 1:

Average throughput: 81.79 Mbit/s

95th percentile per-packet one-way delay: 2.906 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:25:24

End at: 2019-01-19 06:25:54

Local clock offset: -7.286 ms

Remote clock offset: 0.938 ms

# Below is generated by plot.py at 2019-01-19 07:25:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.23 Mbit/s

95th percentile per-packet one-way delay: 3.918 ms

Loss rate: 0.02%

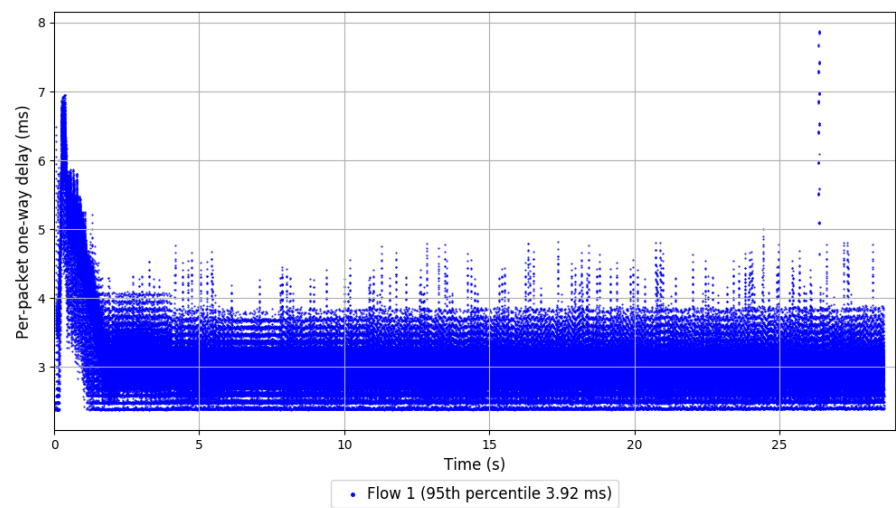
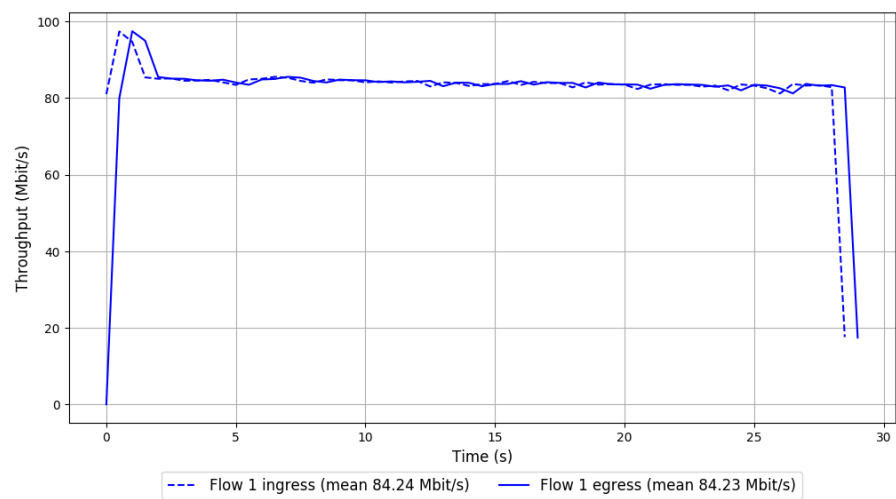
-- Flow 1:

Average throughput: 84.23 Mbit/s

95th percentile per-packet one-way delay: 3.918 ms

Loss rate: 0.02%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:49:08

End at: 2019-01-19 06:49:38

Local clock offset: -7.671 ms

Remote clock offset: 1.126 ms

# Below is generated by plot.py at 2019-01-19 07:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 3.426 ms

Loss rate: 0.02%

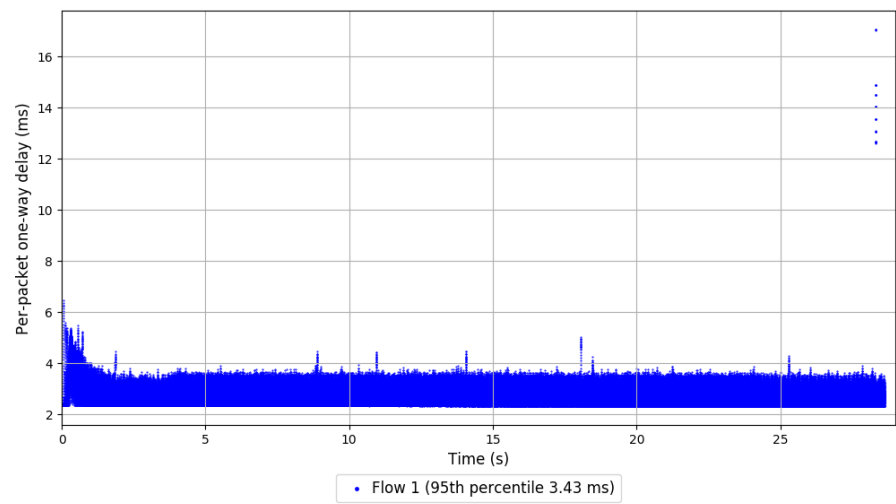
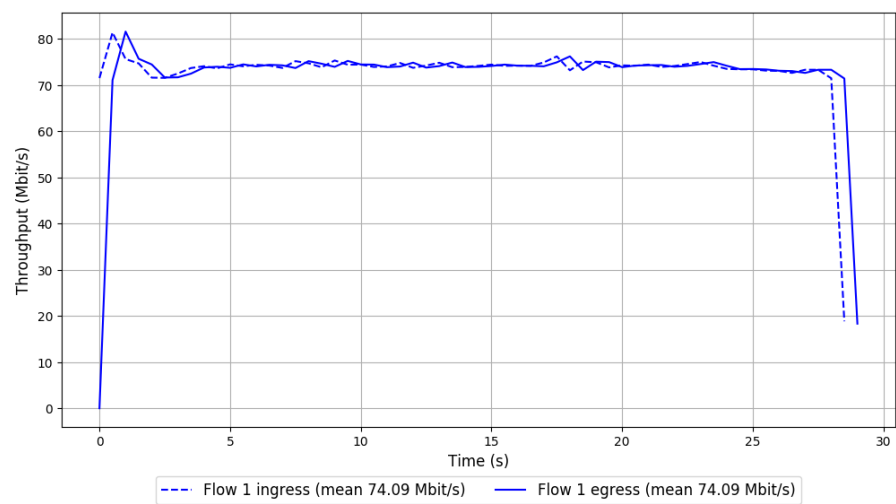
-- Flow 1:

Average throughput: 74.09 Mbit/s

95th percentile per-packet one-way delay: 3.426 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-19 07:12:55

End at: 2019-01-19 07:13:25

Local clock offset: -7.214 ms

Remote clock offset: 1.117 ms

# Below is generated by plot.py at 2019-01-19 07:25:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 3.723 ms

Loss rate: 0.02%

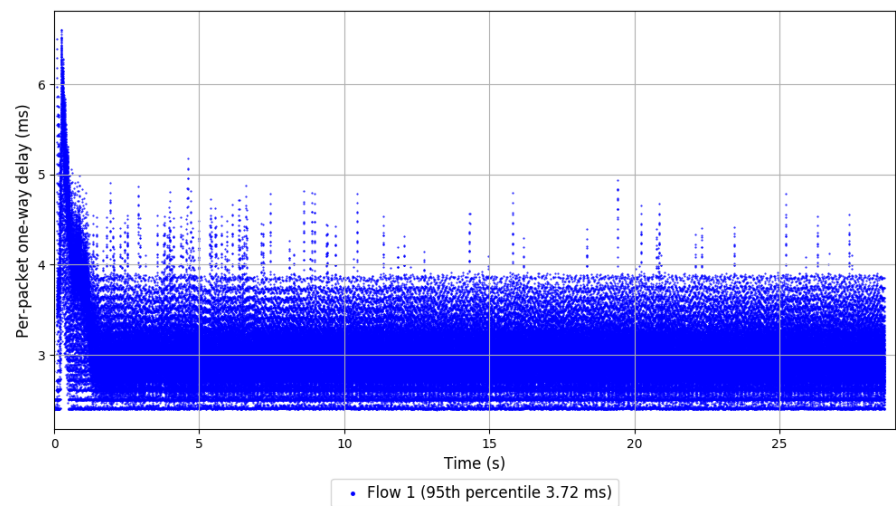
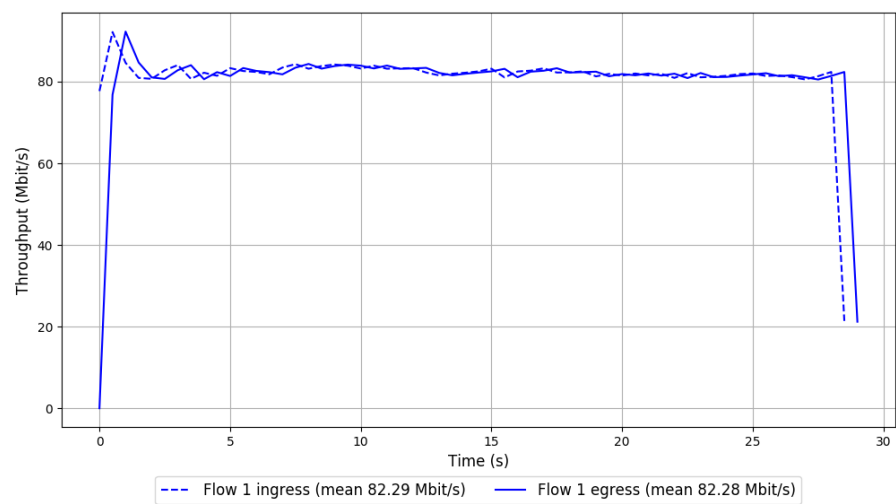
-- Flow 1:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 3.723 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesT — Data Link

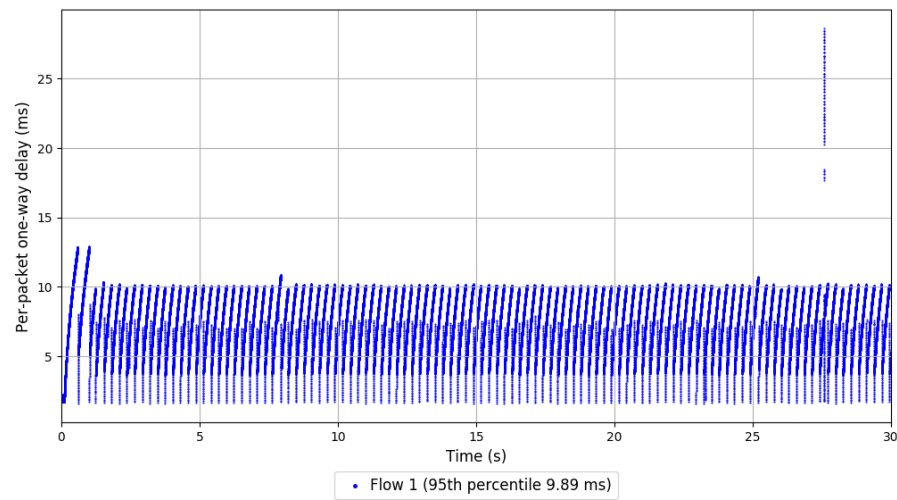
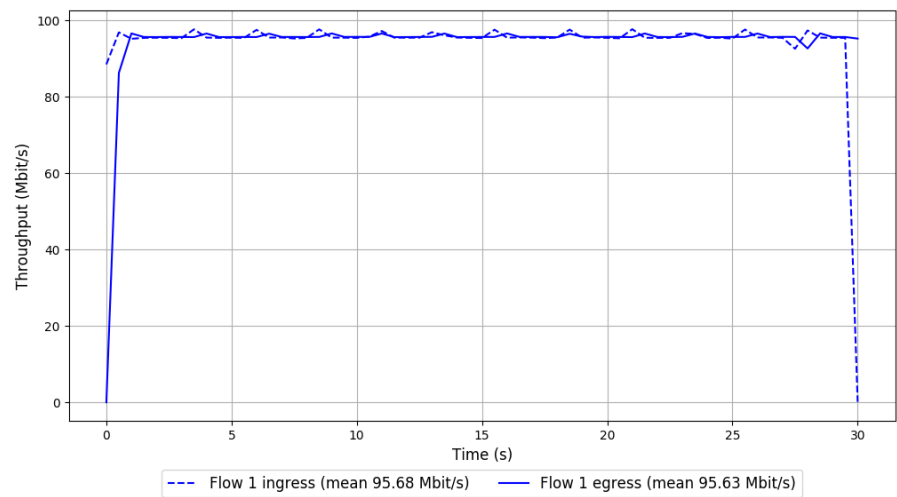


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-19 05:41:20
End at: 2019-01-19 05:41:50
Local clock offset: -1.519 ms
Remote clock offset: 0.572 ms

# Below is generated by plot.py at 2019-01-19 07:26:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 9.886 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 9.886 ms
Loss rate: 0.07%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-19 06:05:04

End at: 2019-01-19 06:05:34

Local clock offset: -6.927 ms

Remote clock offset: 0.855 ms

# Below is generated by plot.py at 2019-01-19 07:26:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.26 Mbit/s

95th percentile per-packet one-way delay: 9.904 ms

Loss rate: 0.07%

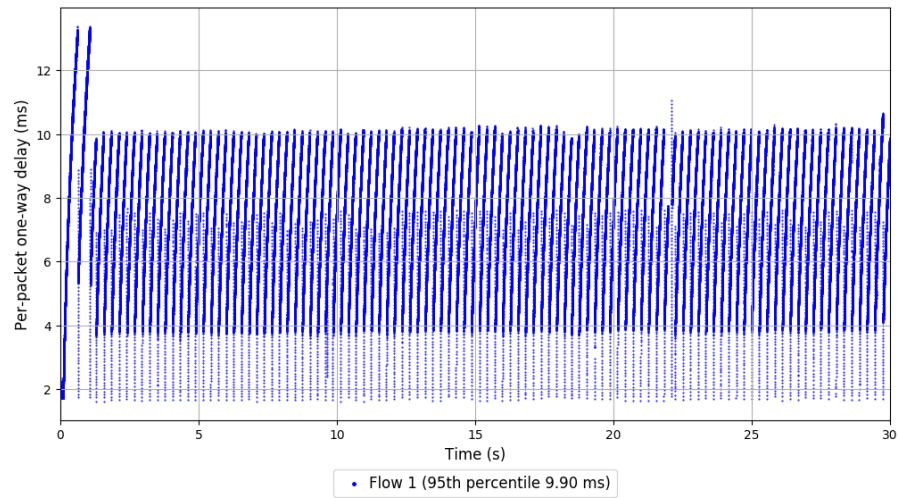
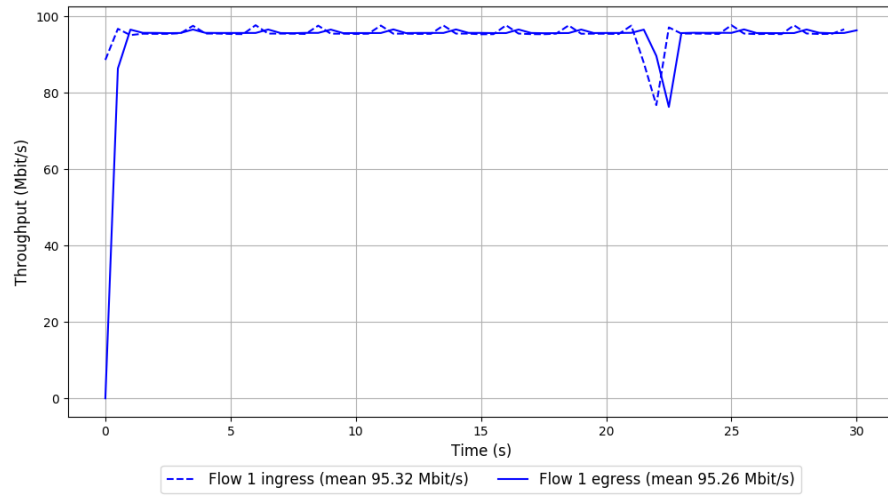
-- Flow 1:

Average throughput: 95.26 Mbit/s

95th percentile per-packet one-way delay: 9.904 ms

Loss rate: 0.07%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-01-19 06:28:47

End at: 2019-01-19 06:29:17

Local clock offset: -8.068 ms

Remote clock offset: 0.957 ms

# Below is generated by plot.py at 2019-01-19 07:26:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 10.150 ms

Loss rate: 0.08%

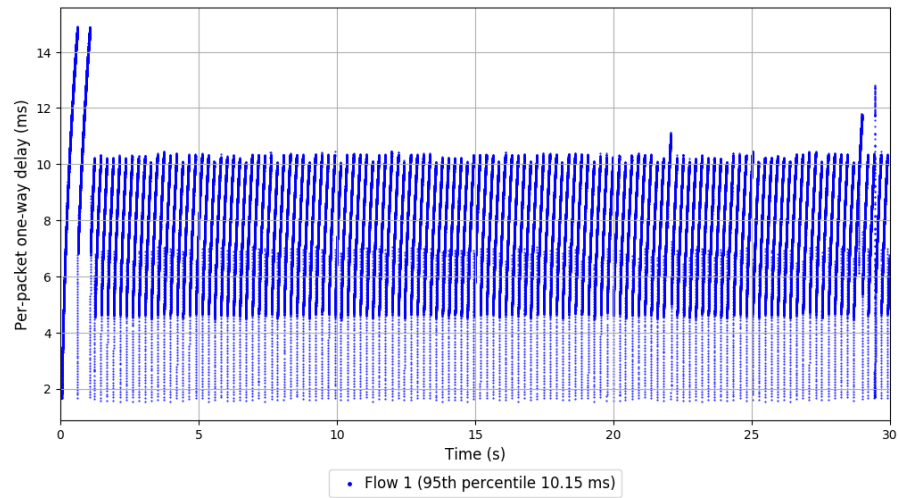
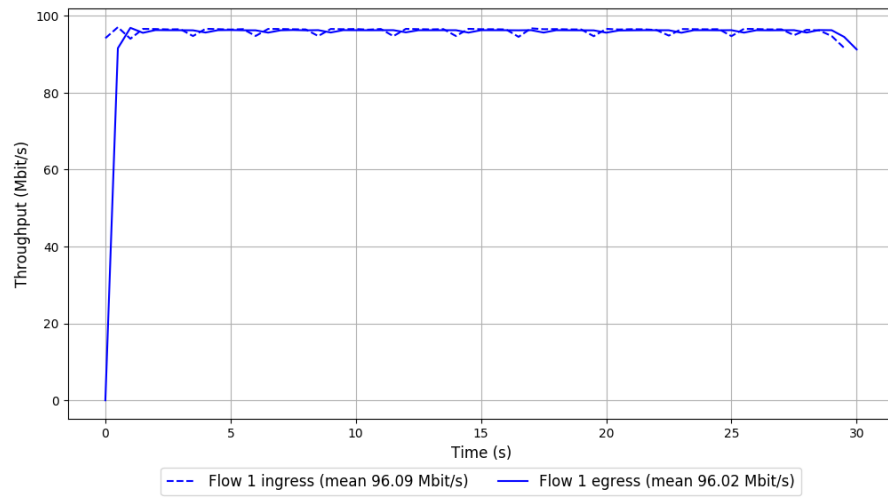
-- Flow 1:

Average throughput: 96.02 Mbit/s

95th percentile per-packet one-way delay: 10.150 ms

Loss rate: 0.08%

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



Run 4: Statistics of LEDBAT

Start at: 2019-01-19 06:52:31

End at: 2019-01-19 06:53:01

Local clock offset: -7.417 ms

Remote clock offset: 1.115 ms

# Below is generated by plot.py at 2019-01-19 07:26:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 10.616 ms

Loss rate: 0.08%

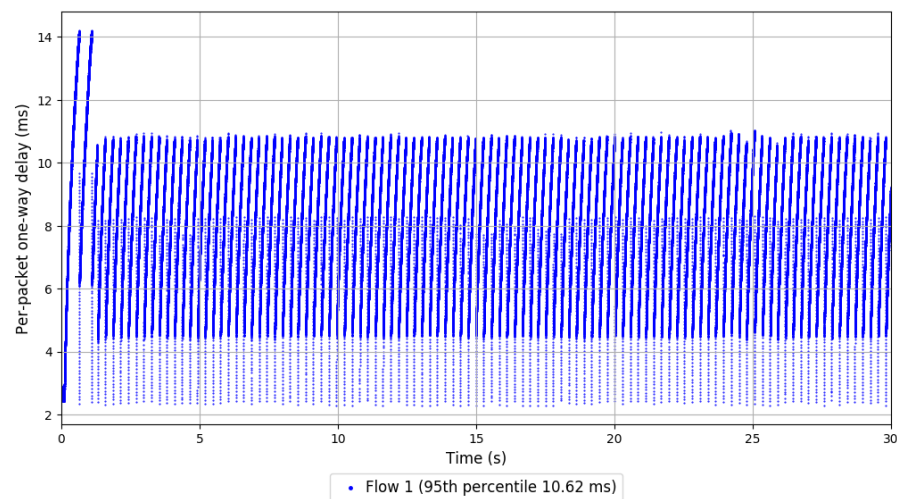
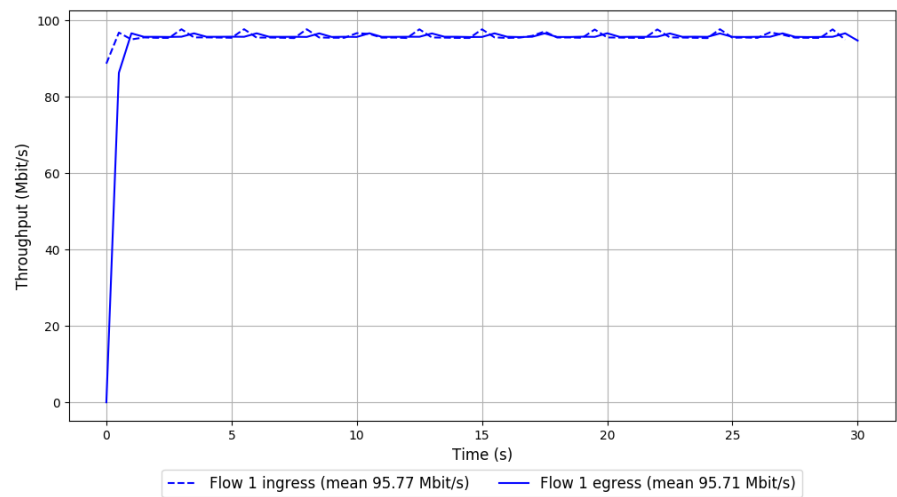
-- Flow 1:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 10.616 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-01-19 07:16:18

End at: 2019-01-19 07:16:48

Local clock offset: -7.333 ms

Remote clock offset: 1.045 ms

# Below is generated by plot.py at 2019-01-19 07:26:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 10.875 ms

Loss rate: 0.08%

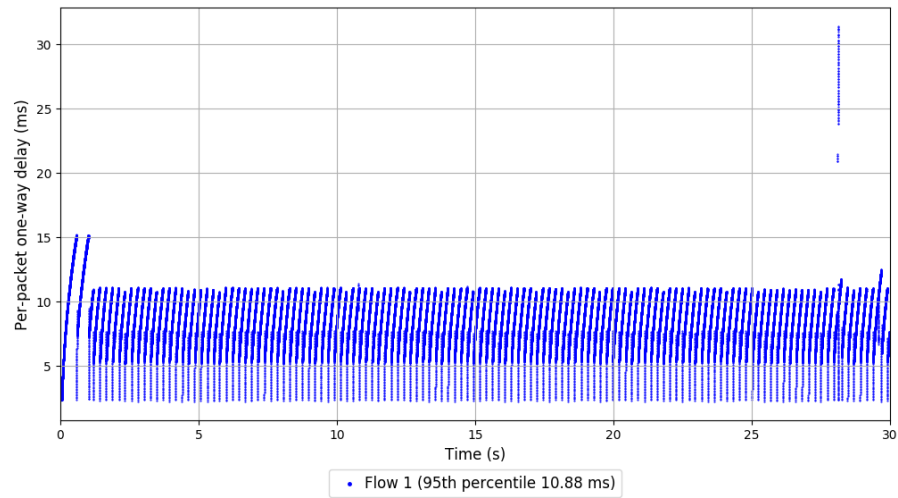
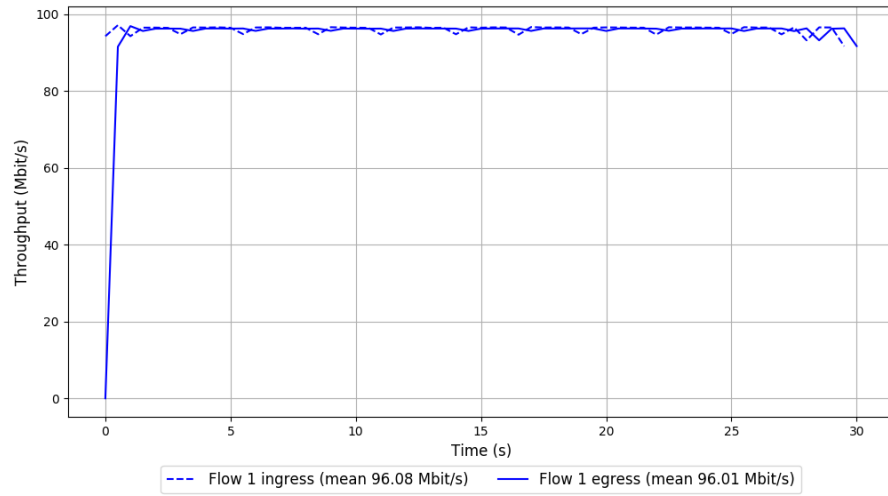
-- Flow 1:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 10.875 ms

Loss rate: 0.08%

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

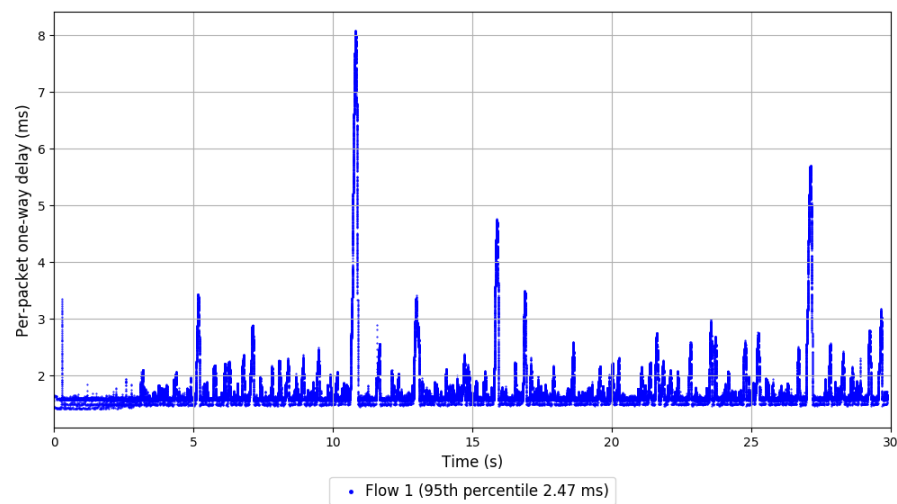
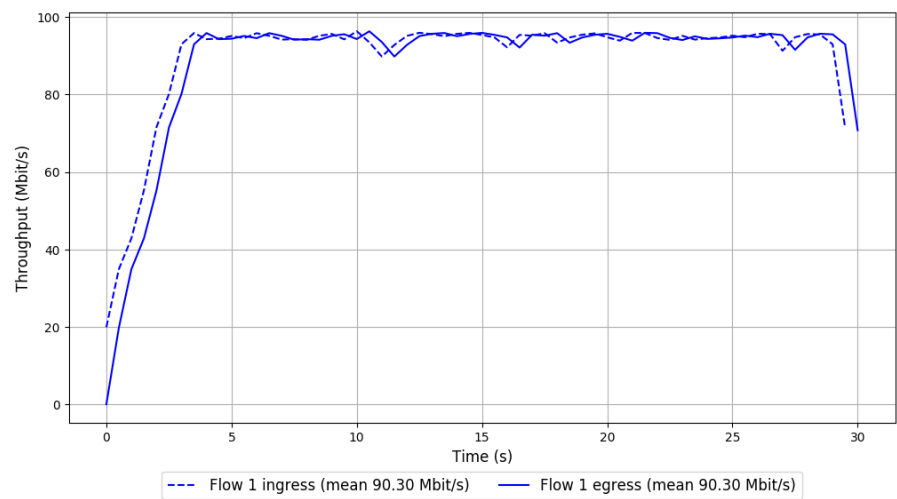


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-19 05:27:46
End at: 2019-01-19 05:28:16
Local clock offset: -1.731 ms
Remote clock offset: 0.458 ms

# Below is generated by plot.py at 2019-01-19 07:26:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 2.468 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 2.468 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-19 05:51:29

End at: 2019-01-19 05:51:59

Local clock offset: -3.089 ms

Remote clock offset: 0.721 ms

# Below is generated by plot.py at 2019-01-19 07:26:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.56 Mbit/s

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

Loss rate: 0.01%

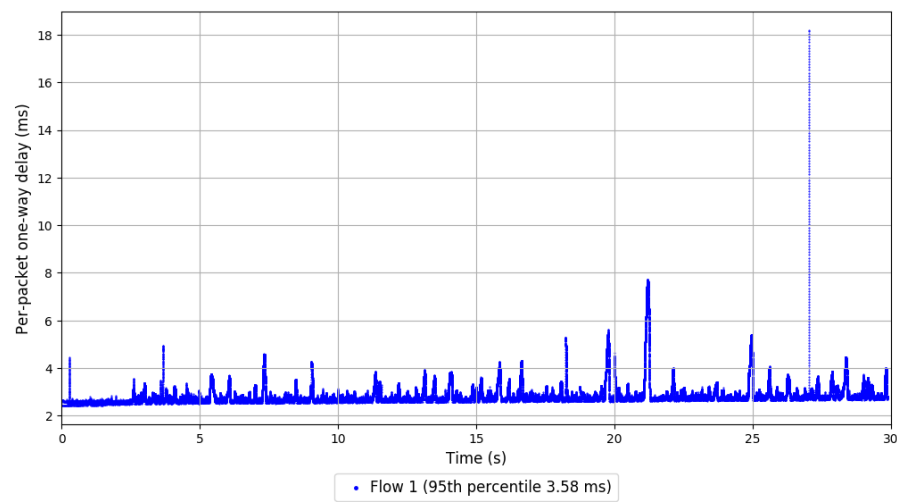
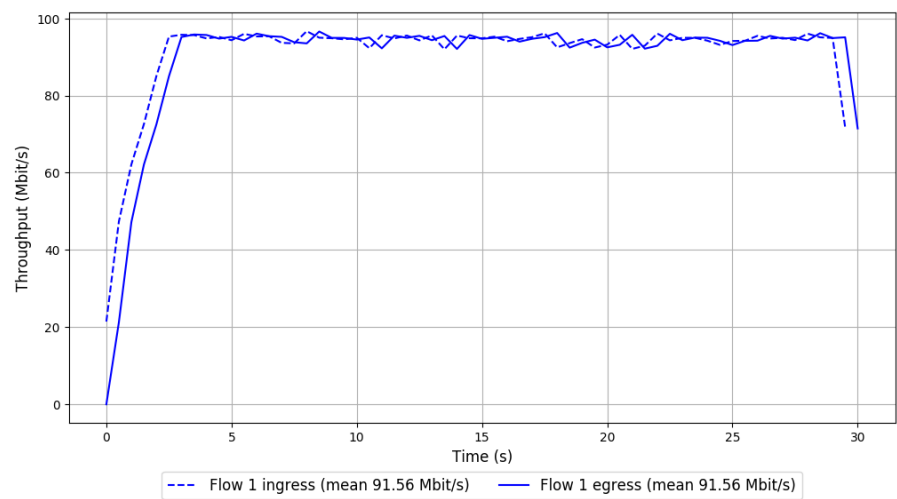
-- Flow 1:

Average throughput: 91.56 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: 2019-01-19 06:15:12

End at: 2019-01-19 06:15:42

Local clock offset: -7.843 ms

Remote clock offset: 0.917 ms

# Below is generated by plot.py at 2019-01-19 07:27:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.42 Mbit/s

95th percentile per-packet one-way delay: 2.405 ms

Loss rate: 0.02%

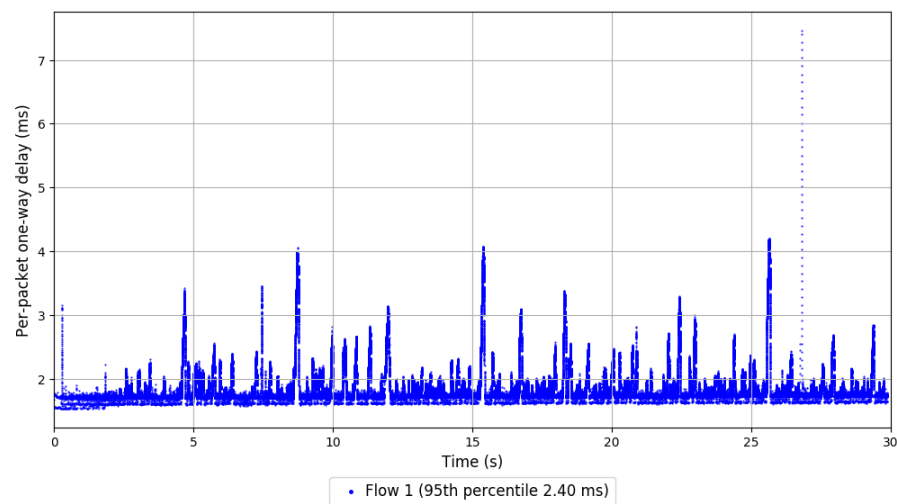
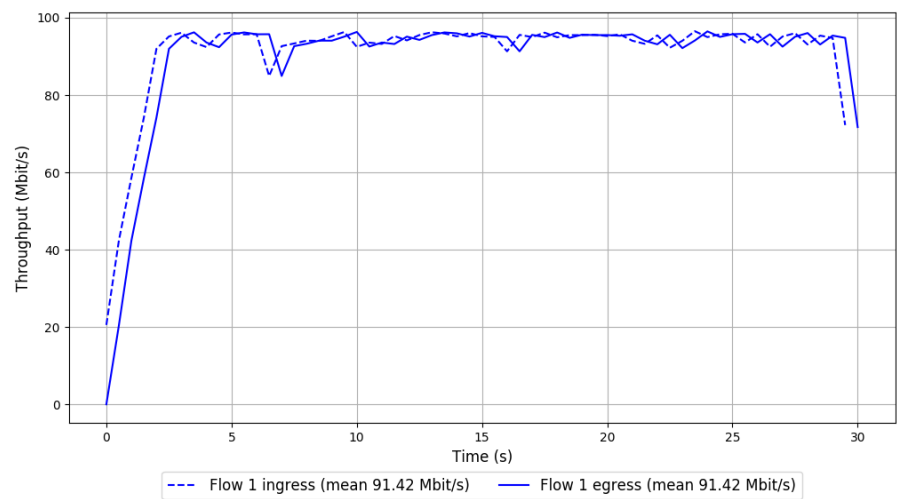
-- Flow 1:

Average throughput: 91.42 Mbit/s

95th percentile per-packet one-way delay: 2.405 ms

Loss rate: 0.02%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-19 06:38:57

End at: 2019-01-19 06:39:27

Local clock offset: -8.38 ms

Remote clock offset: 1.023 ms

# Below is generated by plot.py at 2019-01-19 07:27:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 2.602 ms

Loss rate: 0.01%

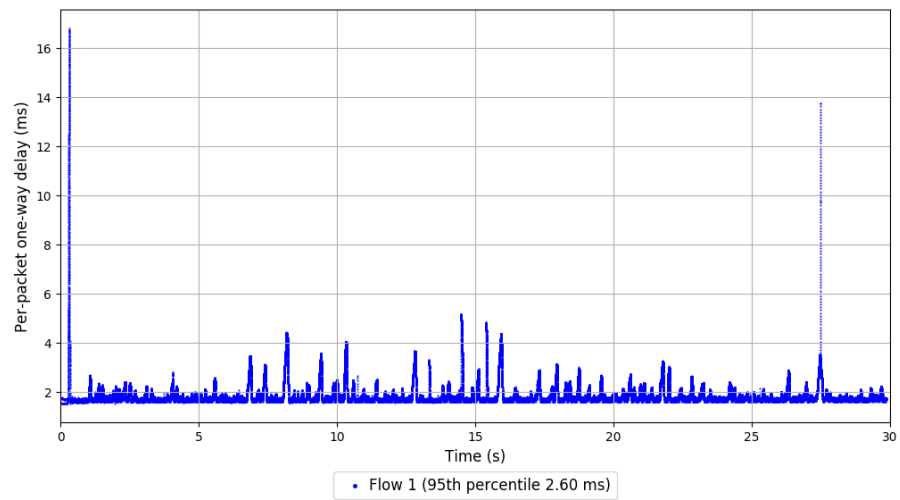
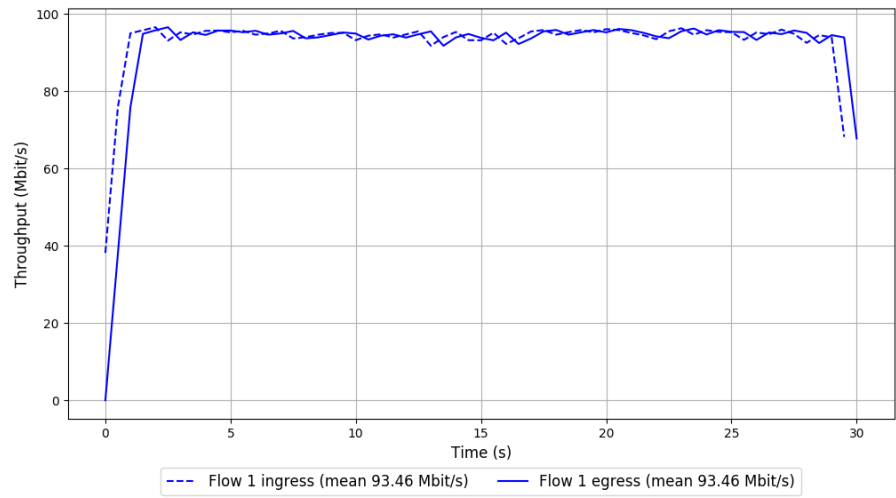
-- Flow 1:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 2.602 ms

Loss rate: 0.01%

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



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-19 07:02:47

End at: 2019-01-19 07:03:17

Local clock offset: -8.002 ms

Remote clock offset: 1.106 ms

# Below is generated by plot.py at 2019-01-19 07:27:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 2.081 ms

Loss rate: 0.02%

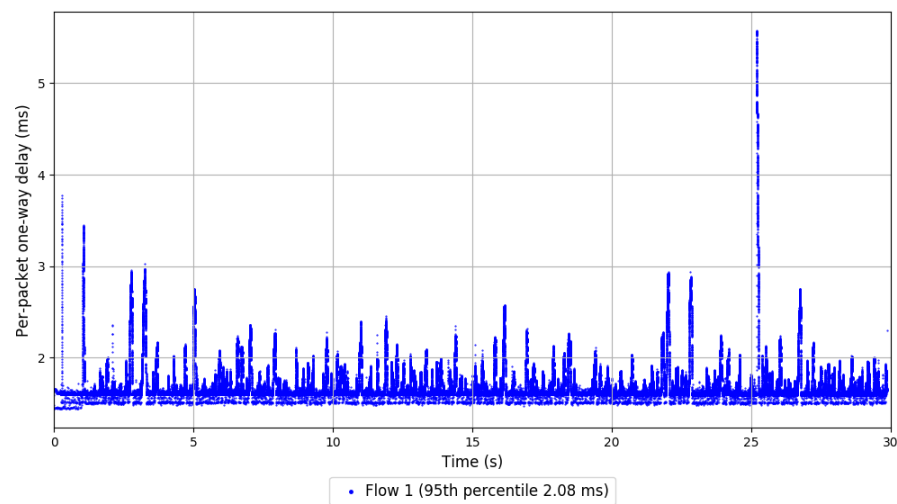
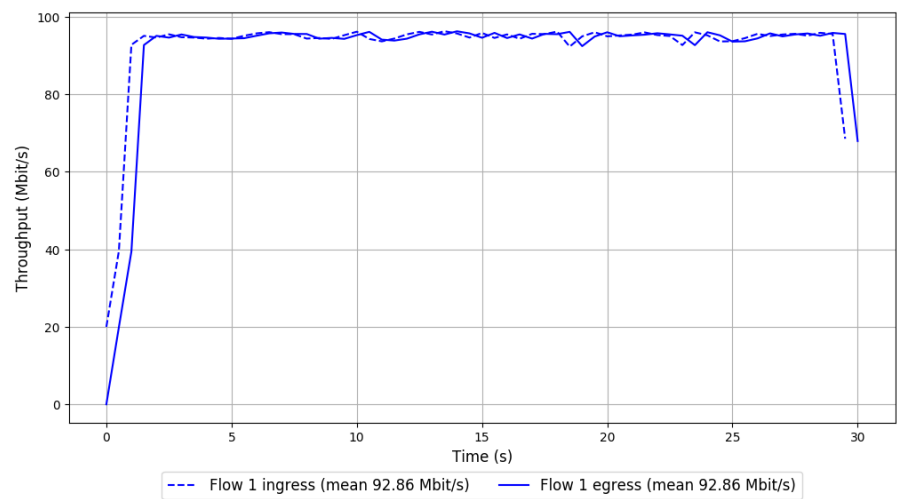
-- Flow 1:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 2.081 ms

Loss rate: 0.02%

Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

Start at: 2019-01-19 05:25:28

End at: 2019-01-19 05:25:58

Local clock offset: -1.704 ms

Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2019-01-19 07:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.33 Mbit/s

95th percentile per-packet one-way delay: 490.176 ms

Loss rate: 2.30%

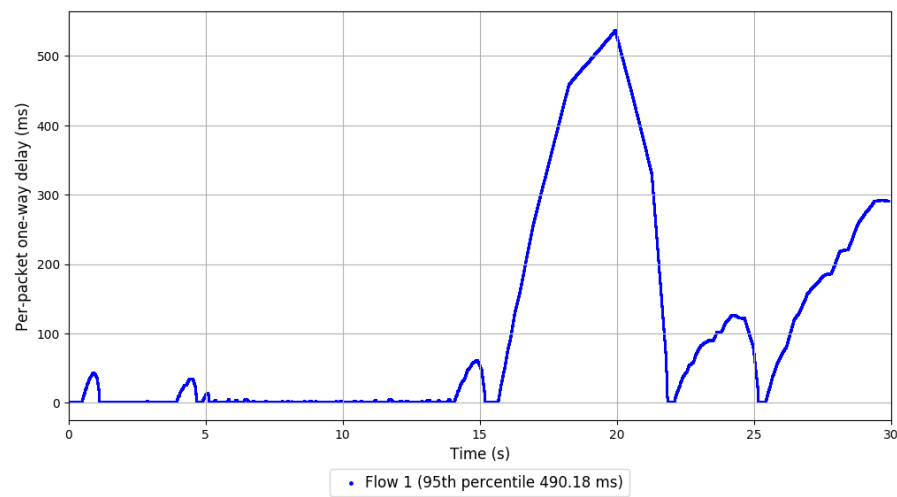
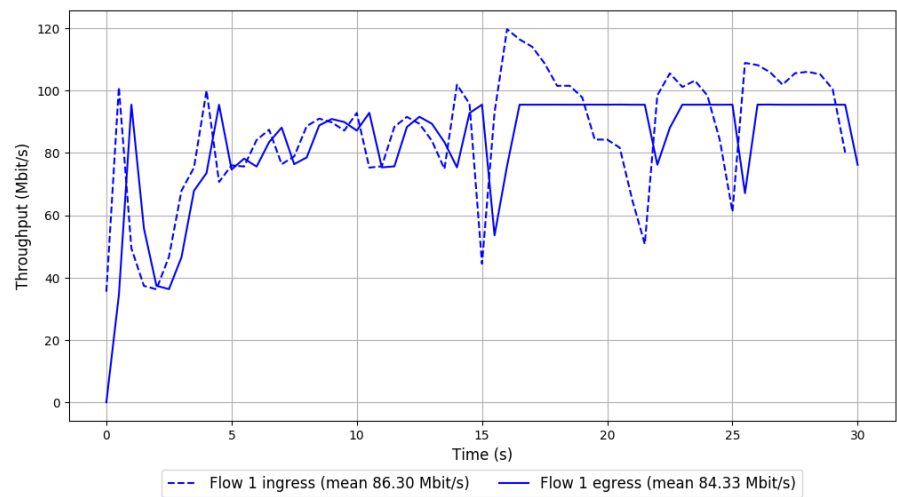
-- Flow 1:

Average throughput: 84.33 Mbit/s

95th percentile per-packet one-way delay: 490.176 ms

Loss rate: 2.30%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-19 05:49:11

End at: 2019-01-19 05:49:41

Local clock offset: -1.882 ms

Remote clock offset: 0.638 ms

# Below is generated by plot.py at 2019-01-19 07:28:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.27 Mbit/s

95th percentile per-packet one-way delay: 637.995 ms

Loss rate: 5.73%

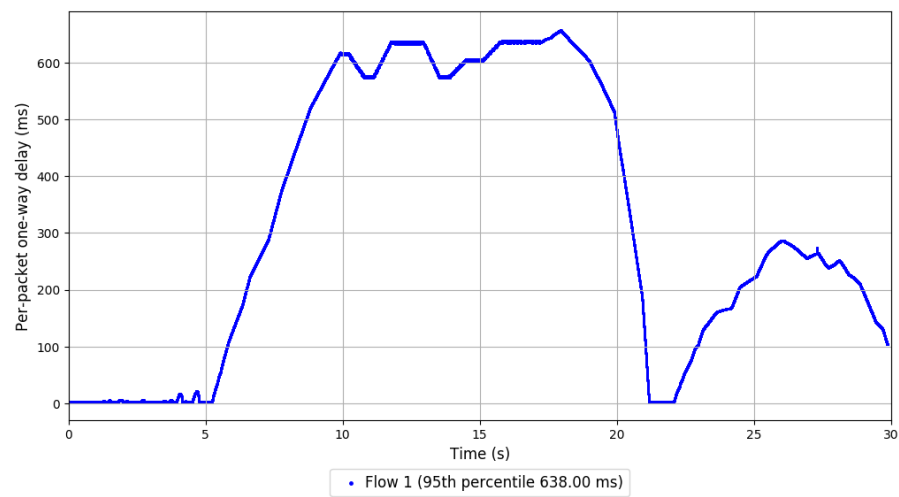
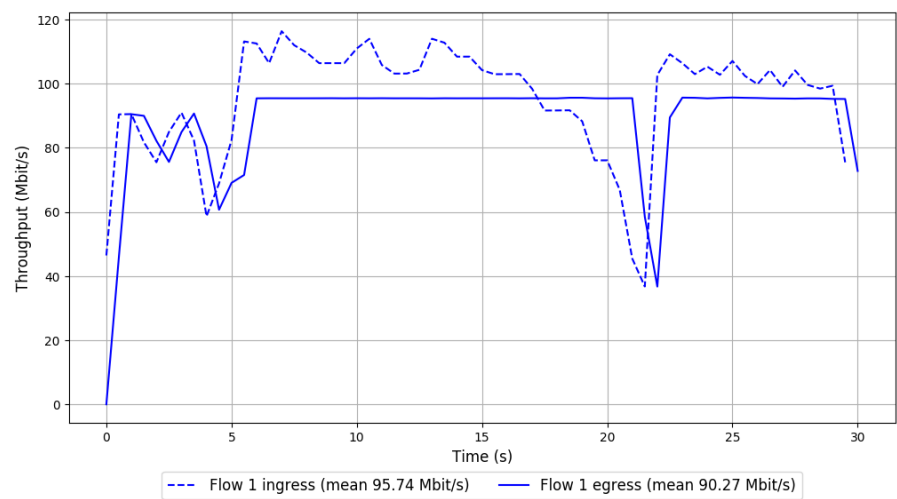
-- Flow 1:

Average throughput: 90.27 Mbit/s

95th percentile per-packet one-way delay: 637.995 ms

Loss rate: 5.73%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-19 06:12:55

End at: 2019-01-19 06:13:25

Local clock offset: -6.967 ms

Remote clock offset: 0.878 ms

# Below is generated by plot.py at 2019-01-19 07:28:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.87 Mbit/s

95th percentile per-packet one-way delay: 325.154 ms

Loss rate: 0.31%

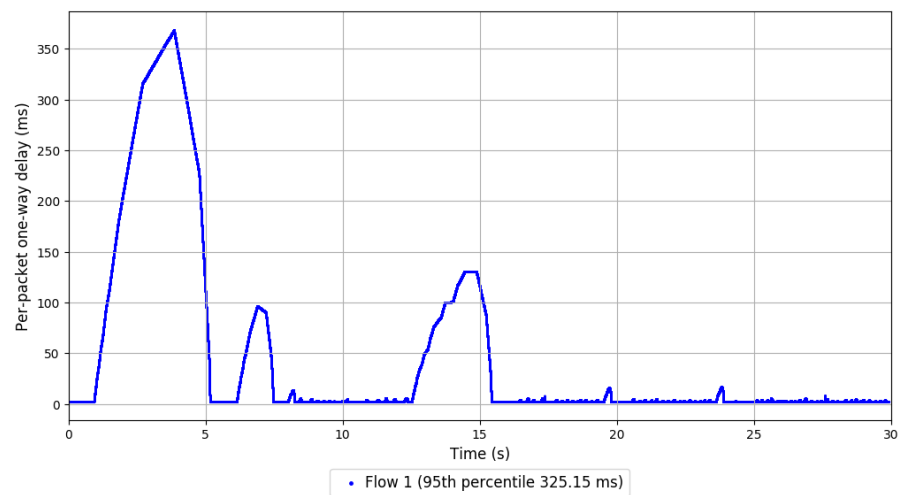
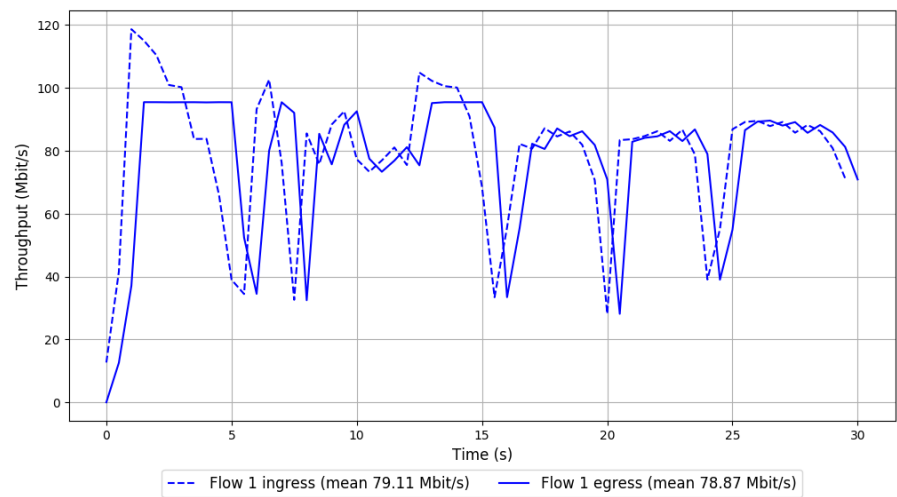
-- Flow 1:

Average throughput: 78.87 Mbit/s

95th percentile per-packet one-way delay: 325.154 ms

Loss rate: 0.31%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-01-19 06:36:39

End at: 2019-01-19 06:37:09

Local clock offset: -8.285 ms

Remote clock offset: 1.076 ms

# Below is generated by plot.py at 2019-01-19 07:28:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 318.675 ms

Loss rate: 0.38%

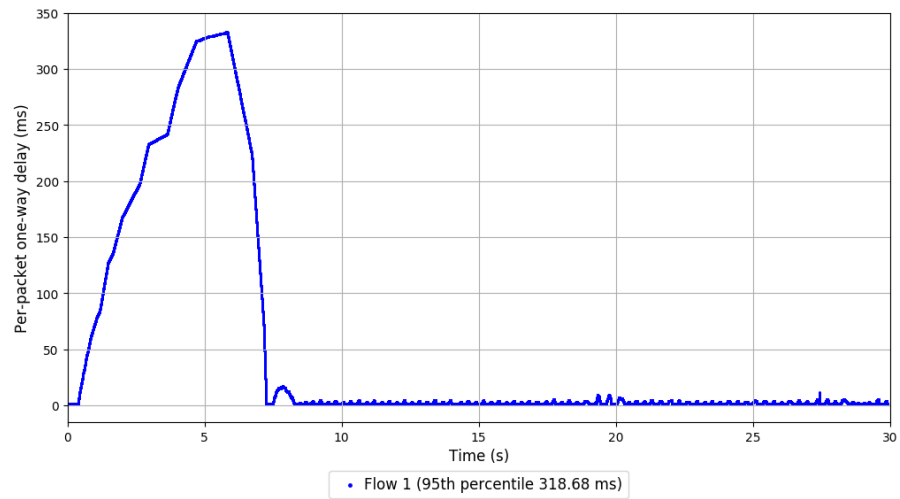
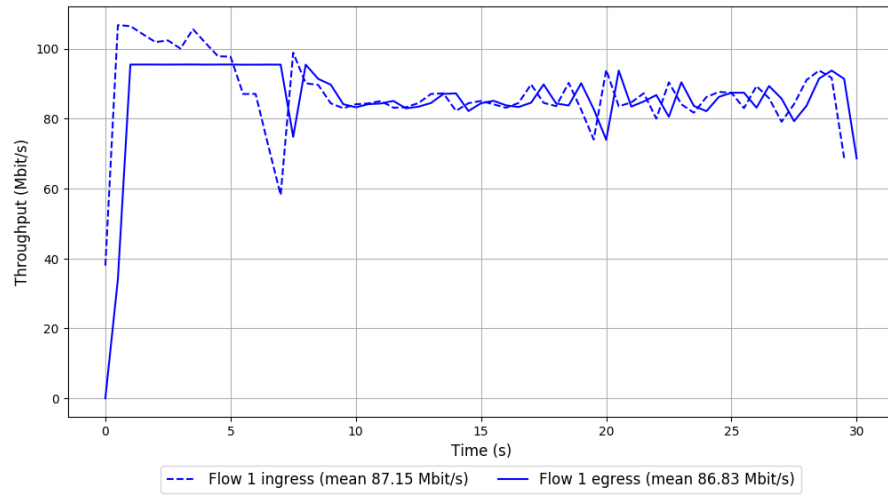
-- Flow 1:

Average throughput: 86.83 Mbit/s

95th percentile per-packet one-way delay: 318.675 ms

Loss rate: 0.38%

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





Run 5: Statistics of PCC-Expr

Start at: 2019-01-19 07:00:29

End at: 2019-01-19 07:00:59

Local clock offset: -7.168 ms

Remote clock offset: 1.078 ms

# Below is generated by plot.py at 2019-01-19 07:28:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 644.254 ms

Loss rate: 1.61%

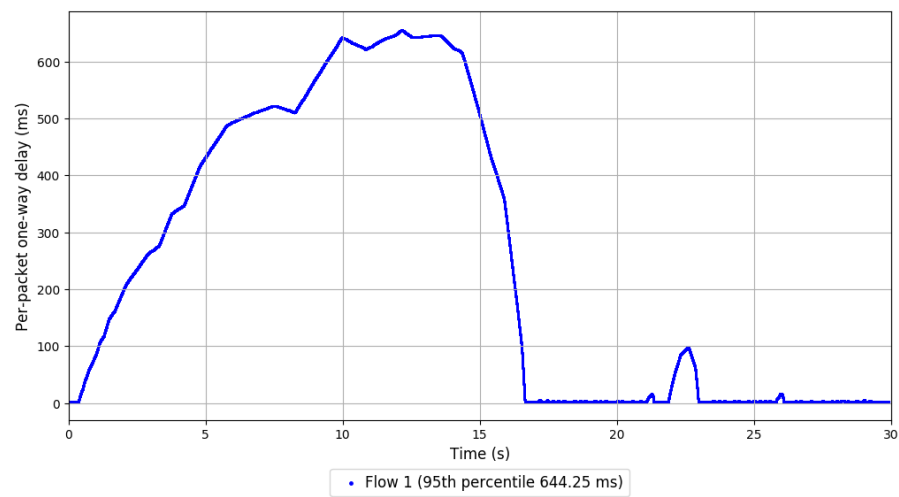
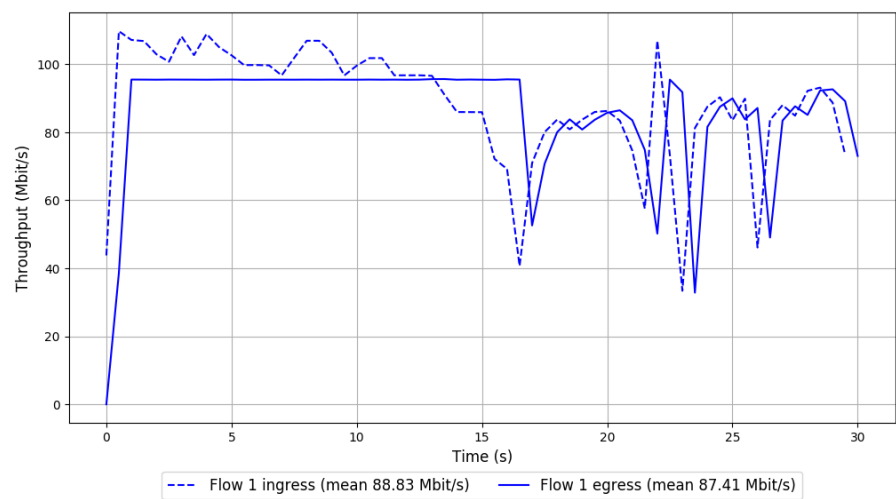
-- Flow 1:

Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 644.254 ms

Loss rate: 1.61%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-19 05:36:49

End at: 2019-01-19 05:37:19

Local clock offset: -1.622 ms

Remote clock offset: 0.609 ms

# Below is generated by plot.py at 2019-01-19 07:28:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 6.053 ms

Loss rate: 0.02%

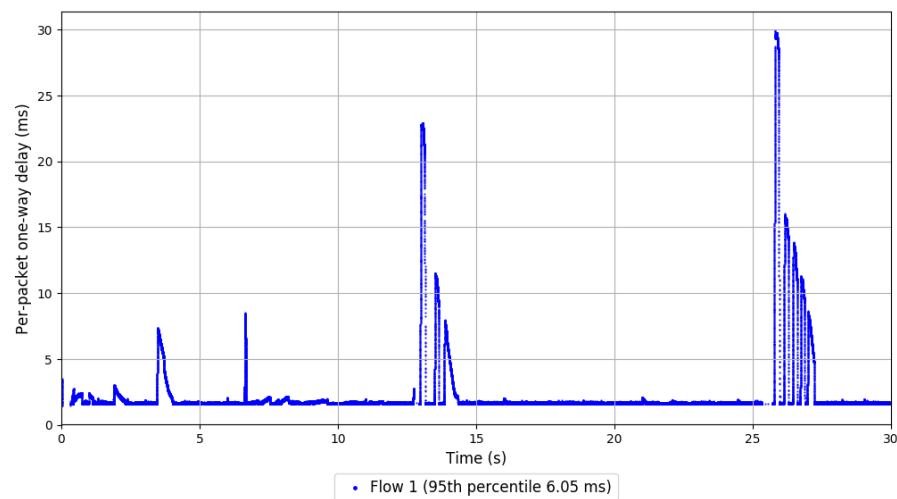
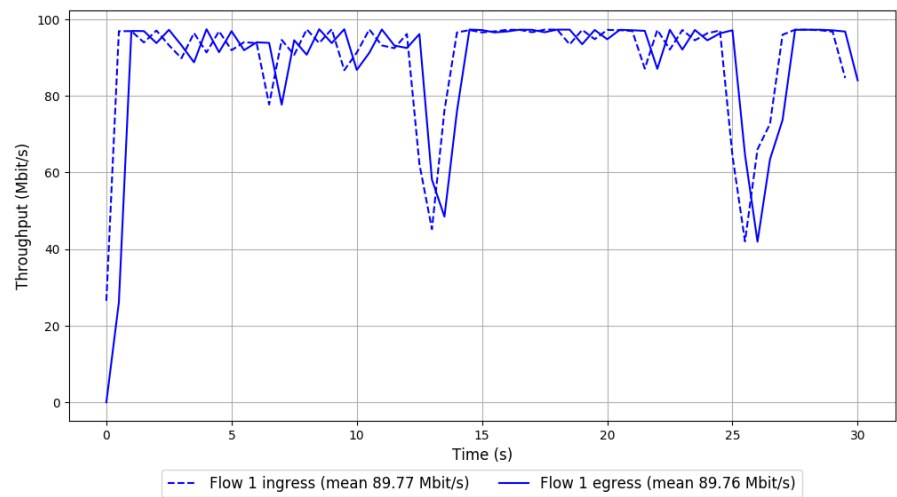
-- Flow 1:

Average throughput: 89.76 Mbit/s

95th percentile per-packet one-way delay: 6.053 ms

Loss rate: 0.02%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-19 06:00:33

End at: 2019-01-19 06:01:03

Local clock offset: -5.538 ms

Remote clock offset: 0.828 ms

# Below is generated by plot.py at 2019-01-19 07:28:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.97 Mbit/s

95th percentile per-packet one-way delay: 8.593 ms

Loss rate: 0.02%

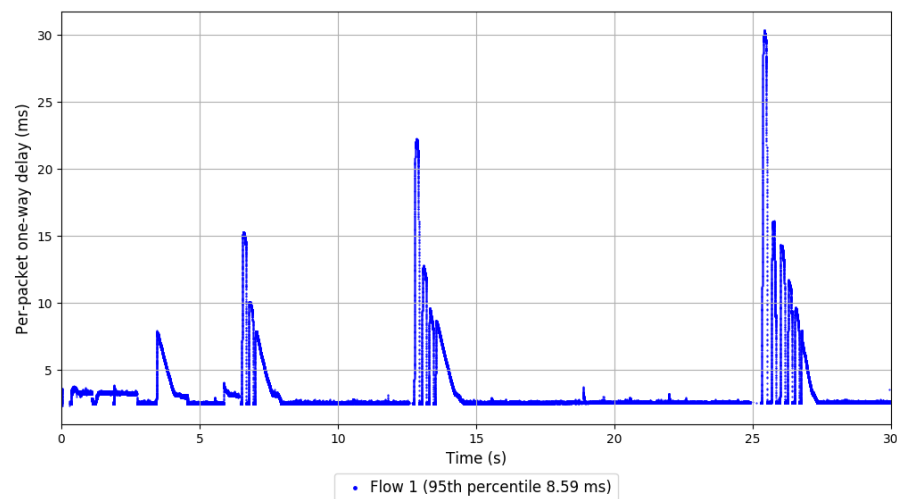
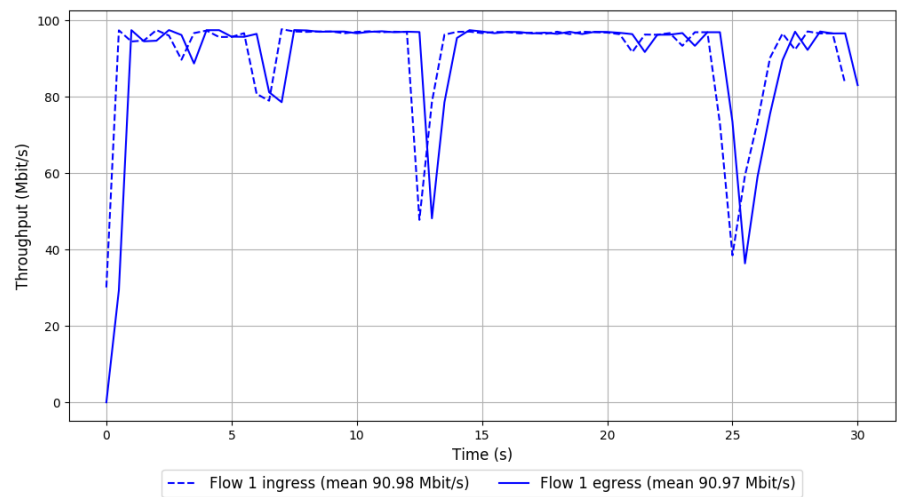
-- Flow 1:

Average throughput: 90.97 Mbit/s

95th percentile per-packet one-way delay: 8.593 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-19 06:24:16

End at: 2019-01-19 06:24:46

Local clock offset: -8.035 ms

Remote clock offset: 0.935 ms

# Below is generated by plot.py at 2019-01-19 07:28:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.23 Mbit/s

95th percentile per-packet one-way delay: 8.144 ms

Loss rate: 0.02%

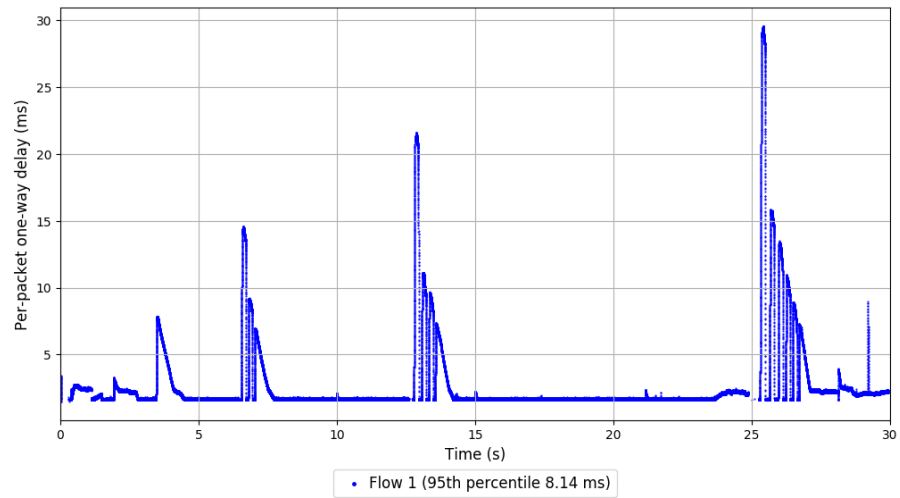
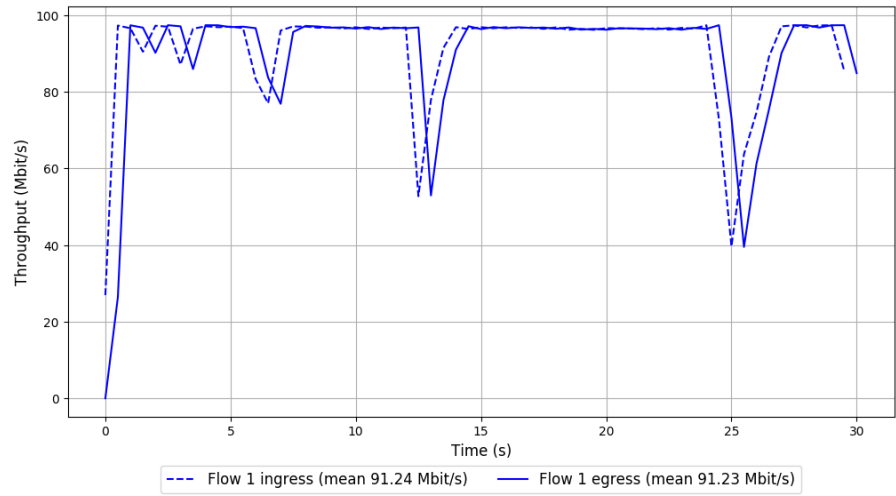
-- Flow 1:

Average throughput: 91.23 Mbit/s

95th percentile per-packet one-way delay: 8.144 ms

Loss rate: 0.02%

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





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-19 06:48:00

End at: 2019-01-19 06:48:30

Local clock offset: -8.554 ms

Remote clock offset: 0.991 ms

# Below is generated by plot.py at 2019-01-19 07:29:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 7.967 ms

Loss rate: 0.02%

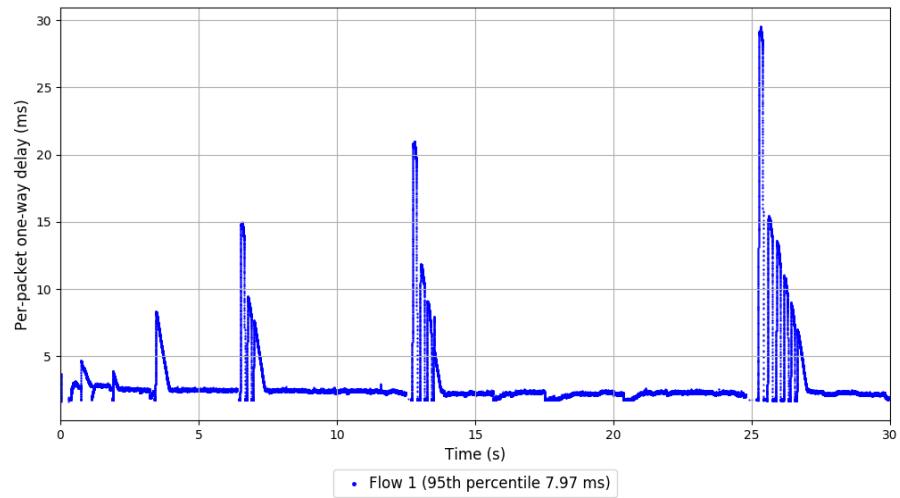
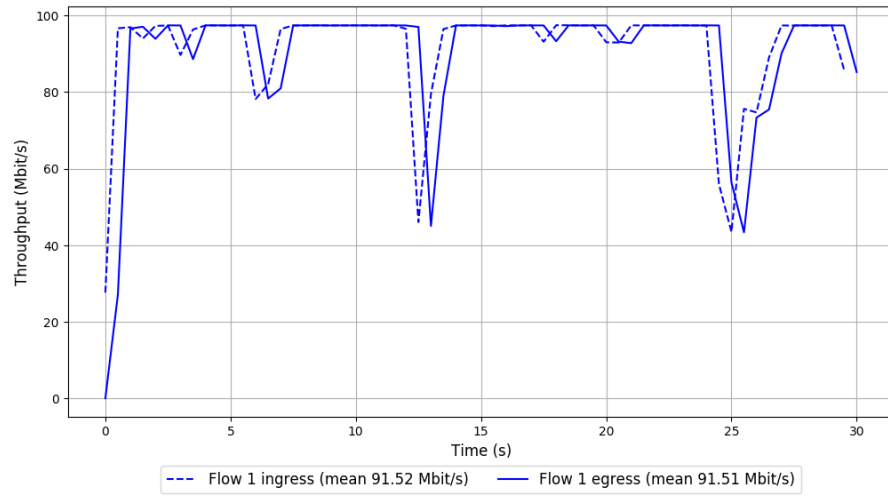
-- Flow 1:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 7.967 ms

Loss rate: 0.02%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-19 07:11:47

End at: 2019-01-19 07:12:17

Local clock offset: -7.199 ms

Remote clock offset: 1.174 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.79 Mbit/s

95th percentile per-packet one-way delay: 8.953 ms

Loss rate: 0.02%

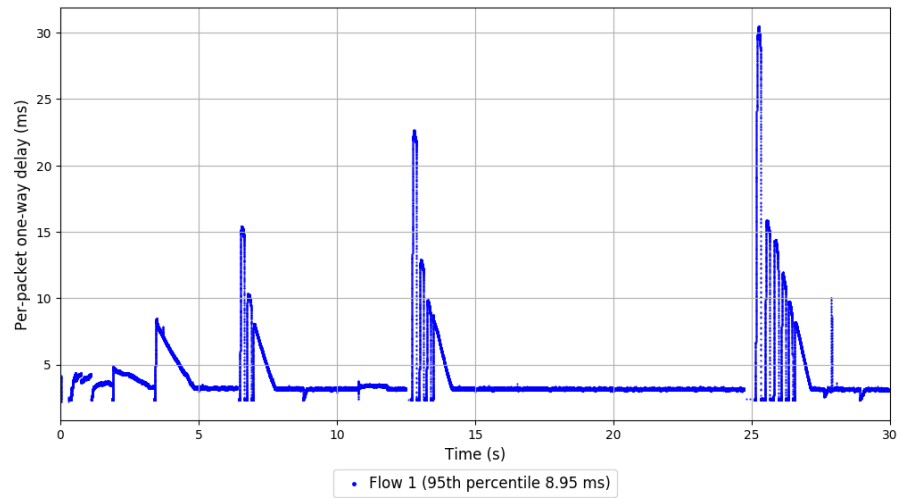
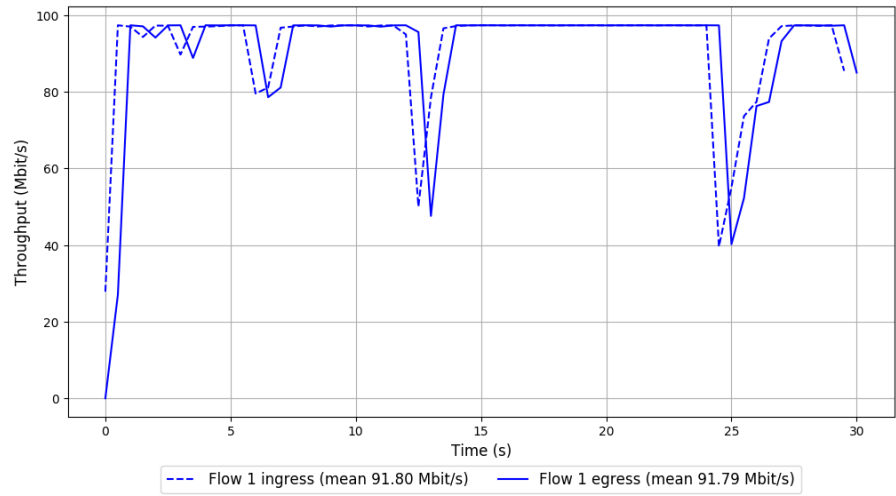
-- Flow 1:

Average throughput: 91.79 Mbit/s

95th percentile per-packet one-way delay: 8.953 ms

Loss rate: 0.02%

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



Run 1: Statistics of SCReAM

Start at: 2019-01-19 05:19:52

End at: 2019-01-19 05:20:22

Local clock offset: -1.574 ms

Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.645 ms

Loss rate: 0.00%

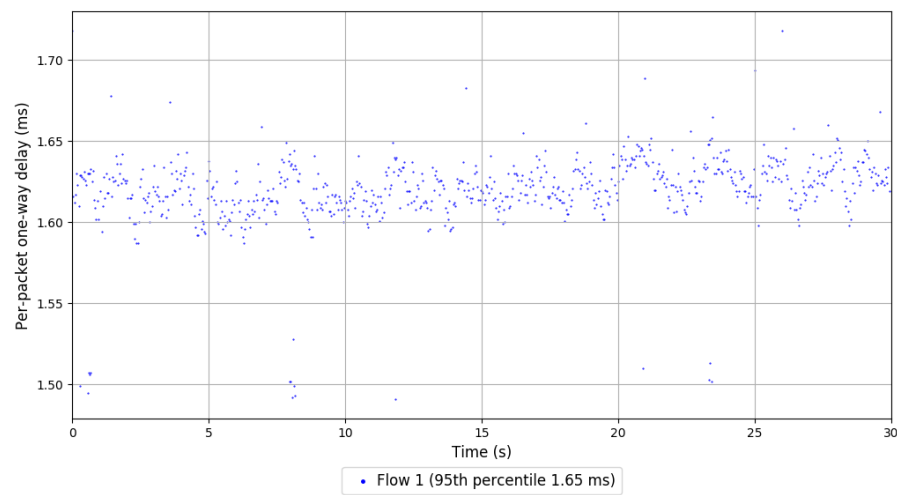
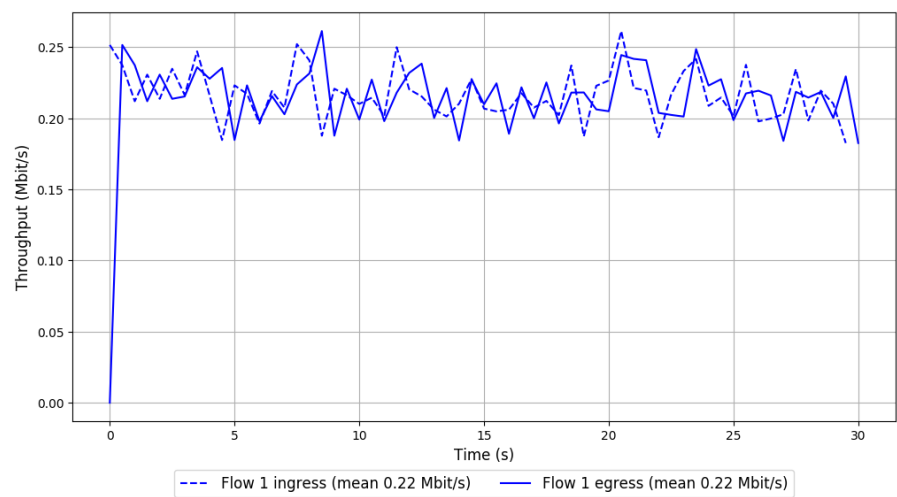
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.645 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-19 05:43:36

End at: 2019-01-19 05:44:06

Local clock offset: -1.475 ms

Remote clock offset: 0.746 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.594 ms

Loss rate: 0.13%

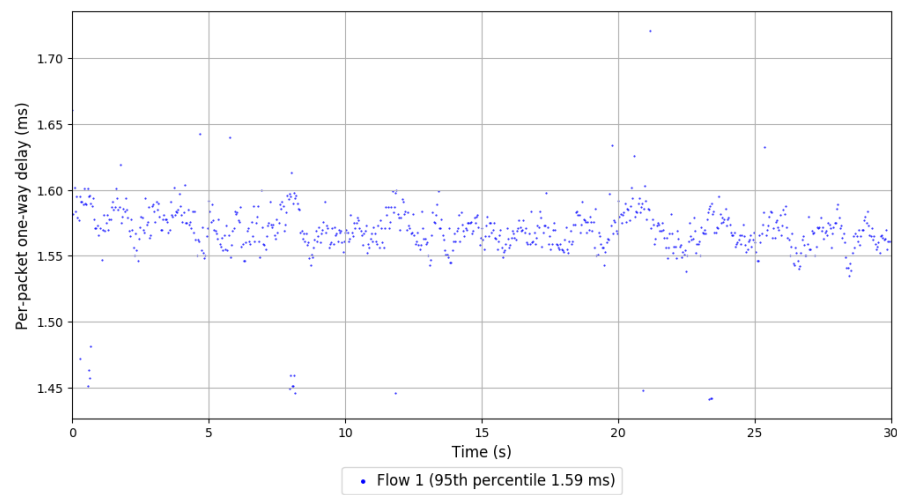
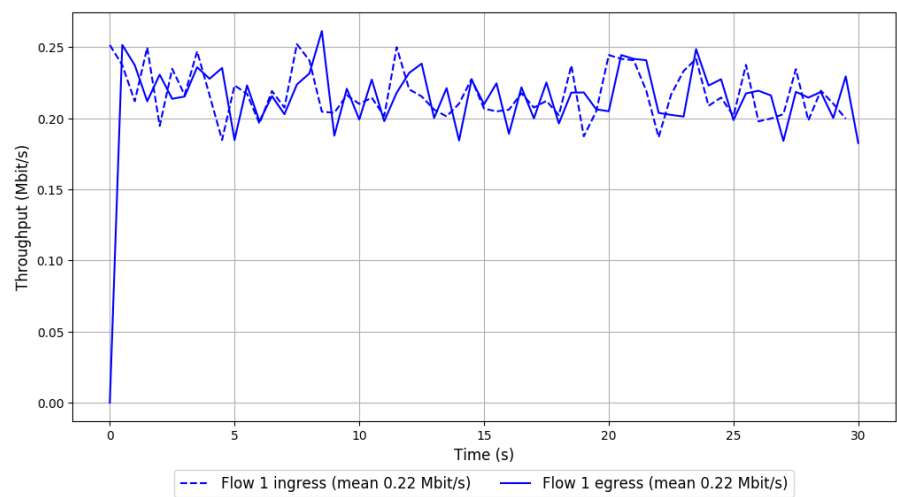
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.594 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link





Run 3: Statistics of SCReAM

Start at: 2019-01-19 06:07:21

End at: 2019-01-19 06:07:51

Local clock offset: -6.458 ms

Remote clock offset: 0.896 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.481 ms

Loss rate: 0.13%

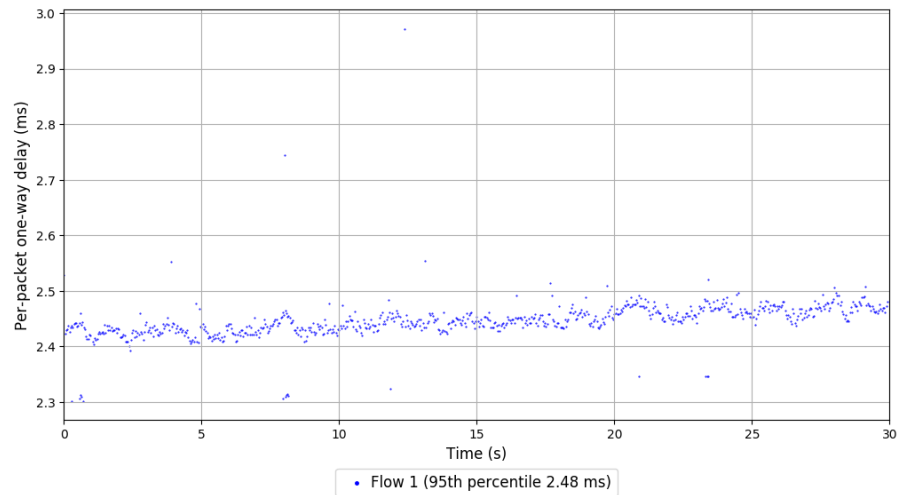
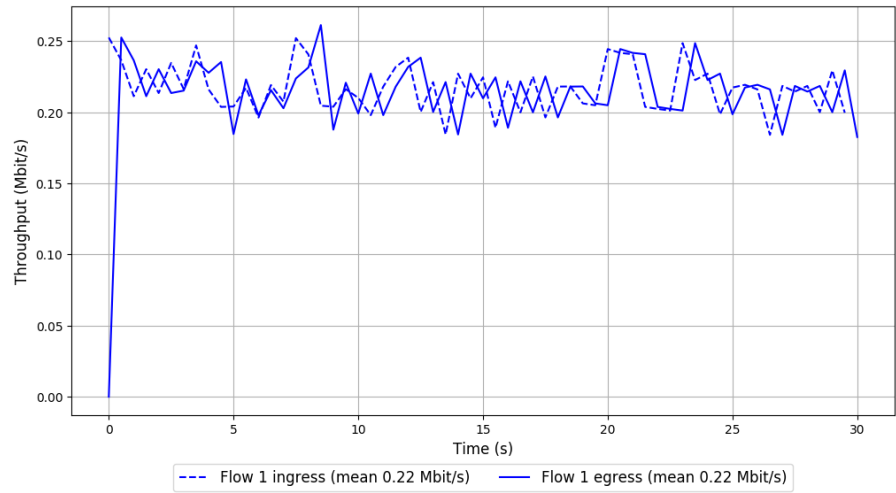
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.481 ms

Loss rate: 0.13%

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



Run 4: Statistics of SCReAM

Start at: 2019-01-19 06:31:04

End at: 2019-01-19 06:31:34

Local clock offset: -8.13 ms

Remote clock offset: 0.888 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.772 ms

Loss rate: 0.00%

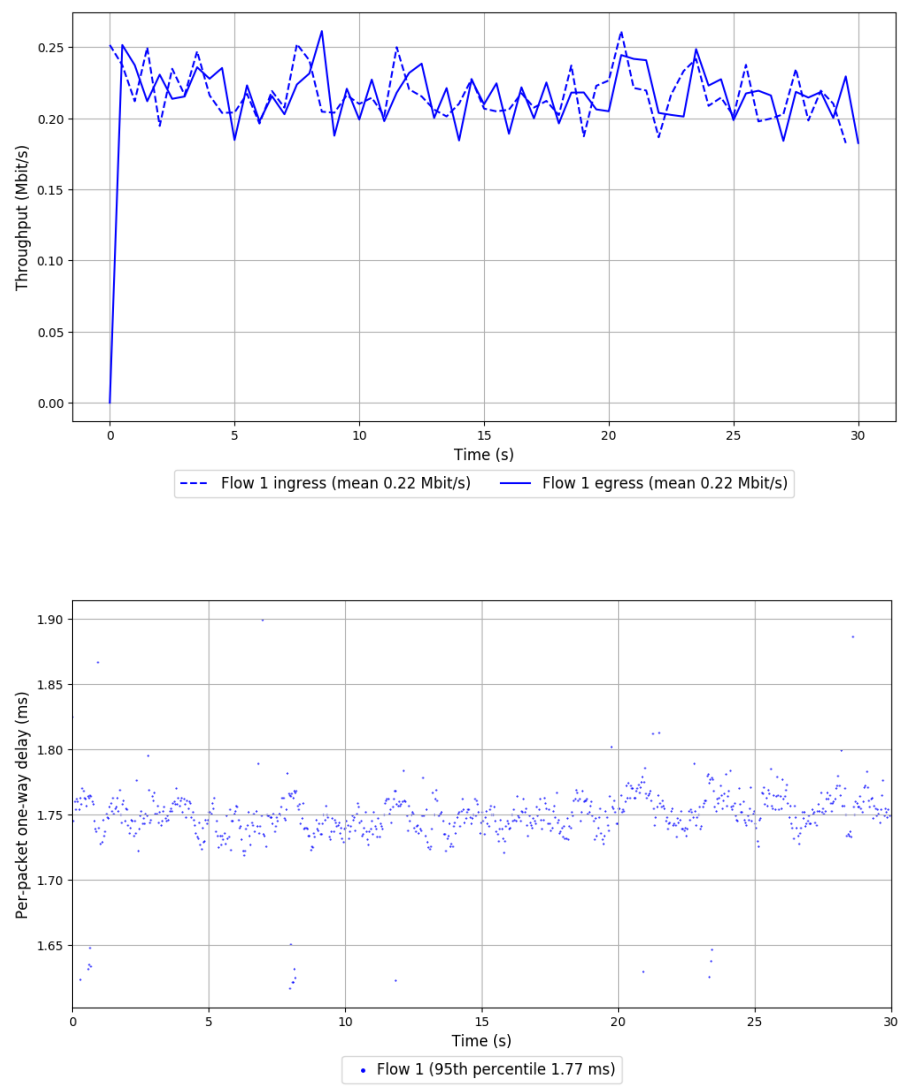
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.772 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-01-19 06:54:48

End at: 2019-01-19 06:55:18

Local clock offset: -8.064 ms

Remote clock offset: 1.134 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.690 ms

Loss rate: 0.00%

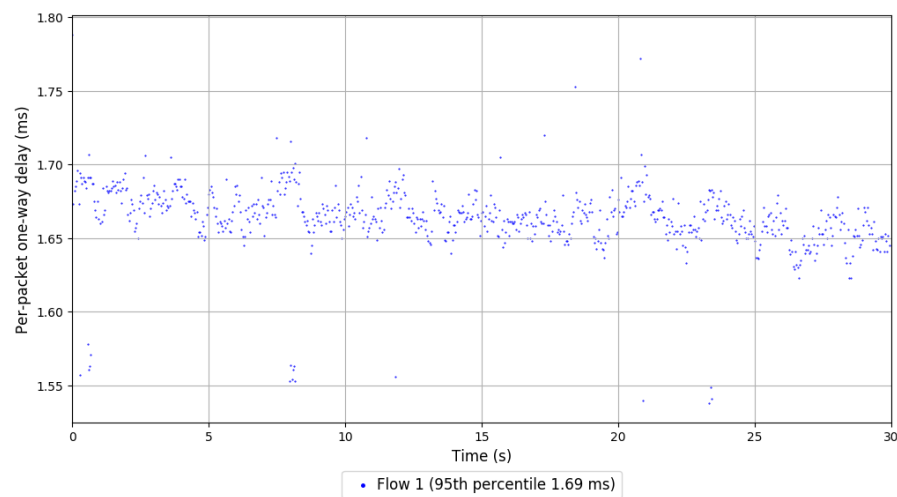
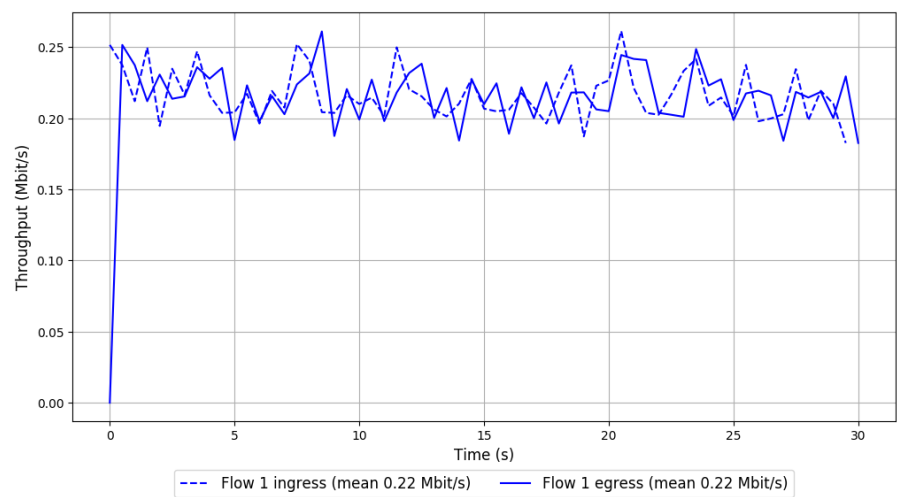
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.690 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-19 05:22:03

End at: 2019-01-19 05:22:33

Local clock offset: -1.667 ms

Remote clock offset: 0.375 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 10.143 ms

Loss rate: 0.07%

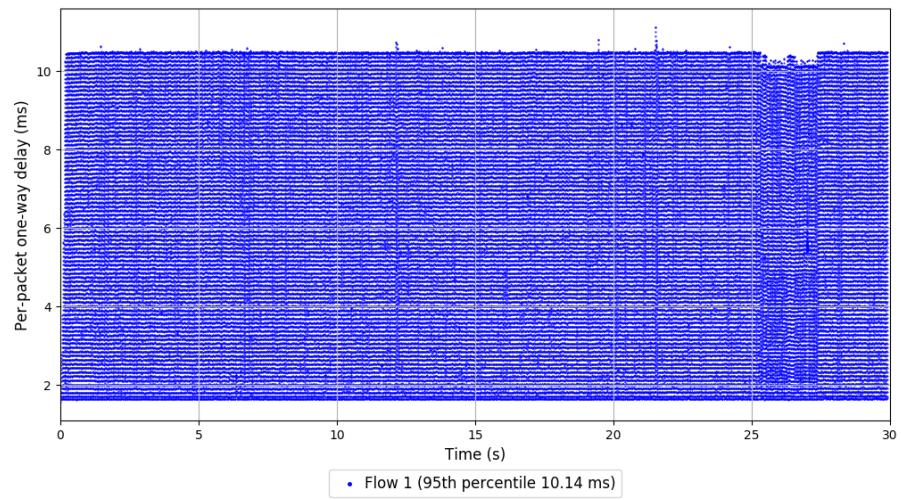
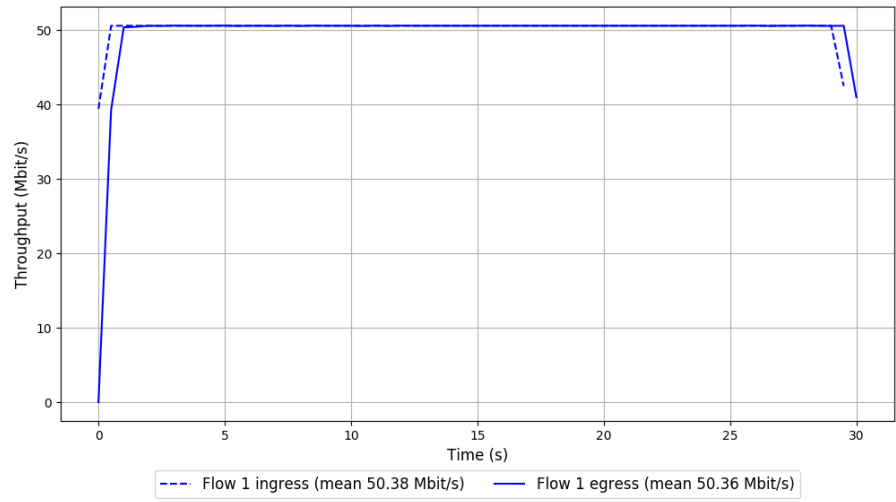
-- Flow 1:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 10.143 ms

Loss rate: 0.07%

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





Run 2: Statistics of Sprout

Start at: 2019-01-19 05:45:46

End at: 2019-01-19 05:46:16

Local clock offset: -0.725 ms

Remote clock offset: 0.679 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 10.916 ms

Loss rate: 0.00%

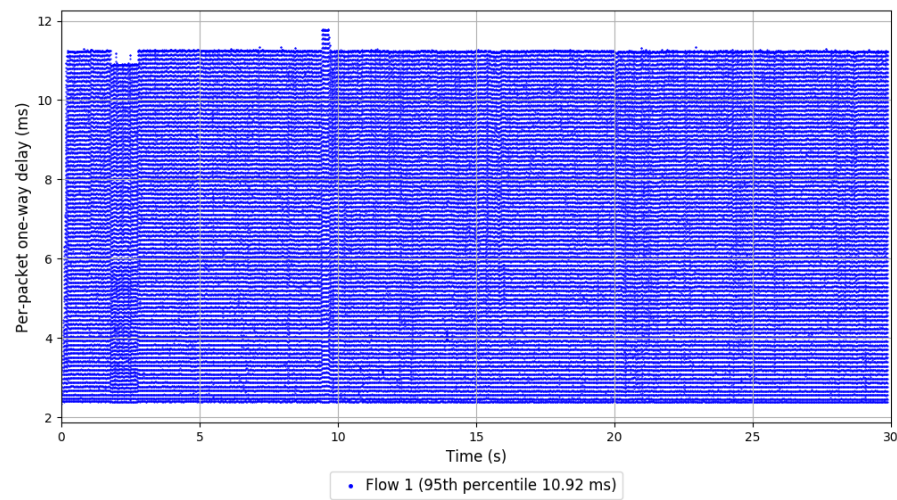
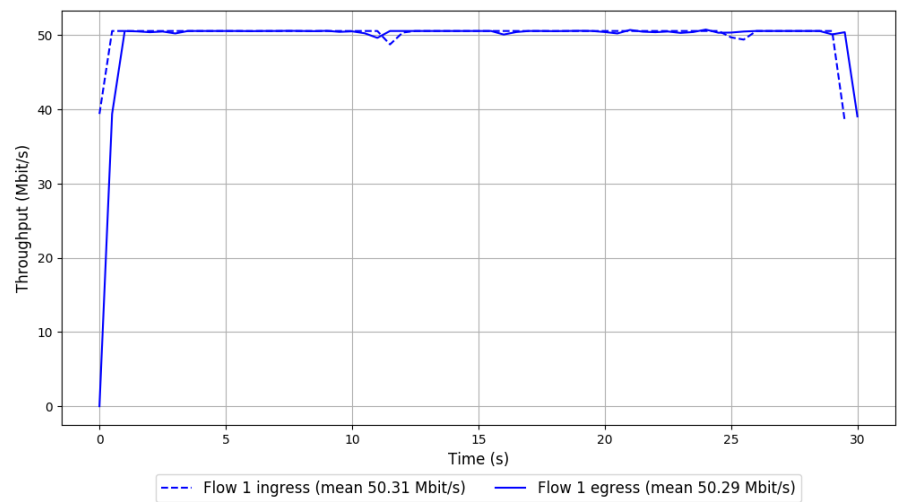
-- Flow 1:

Average throughput: 50.29 Mbit/s

95th percentile per-packet one-way delay: 10.916 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

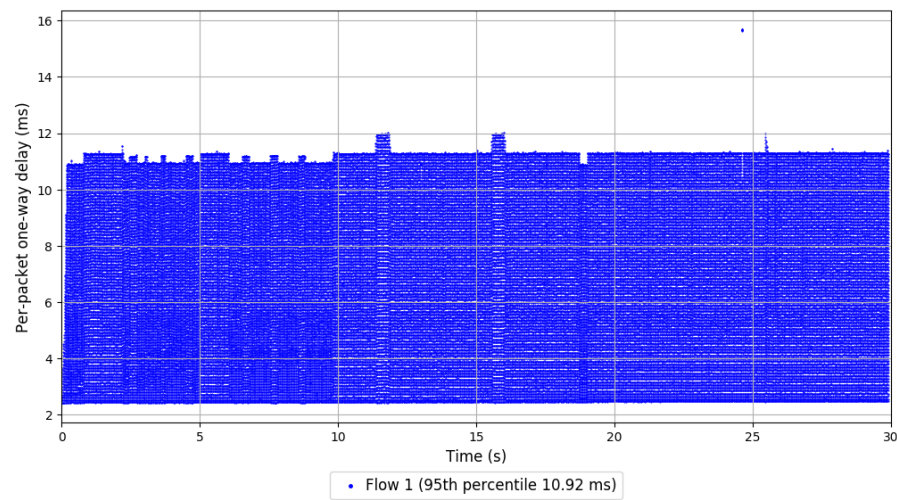
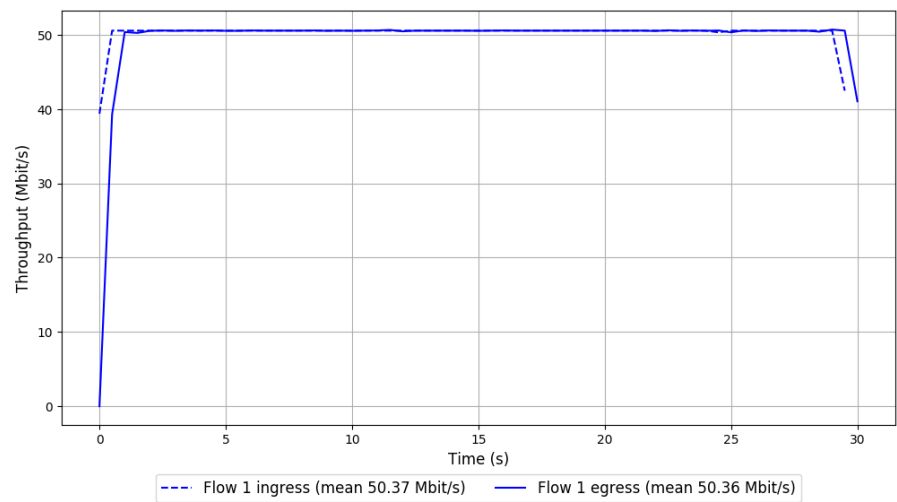


Run 3: Statistics of Sprout

Start at: 2019-01-19 06:09:32  
End at: 2019-01-19 06:10:02  
Local clock offset: -6.641 ms  
Remote clock offset: 0.943 ms

# Below is generated by plot.py at 2019-01-19 07:29:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 10.924 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 50.36 Mbit/s  
95th percentile per-packet one-way delay: 10.924 ms  
Loss rate: 0.07%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-01-19 06:33:14

End at: 2019-01-19 06:33:44

Local clock offset: -8.184 ms

Remote clock offset: 1.055 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.43 Mbit/s

95th percentile per-packet one-way delay: 10.172 ms

Loss rate: 0.05%

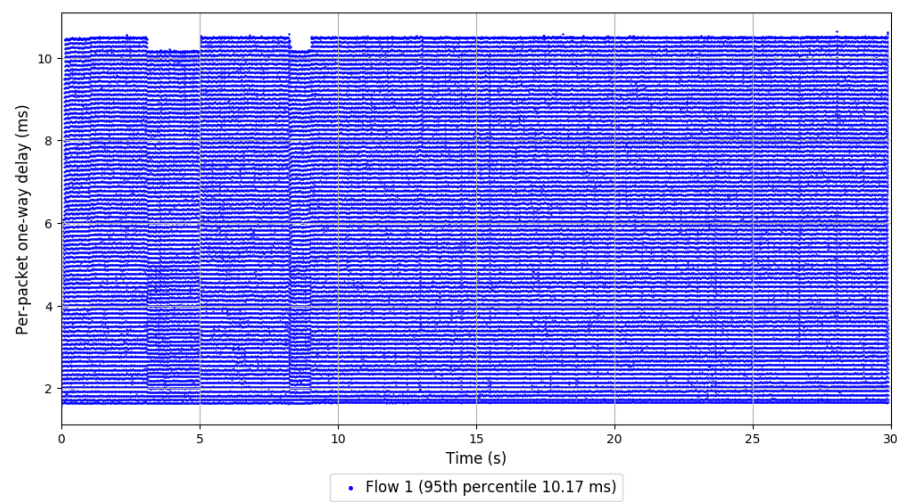
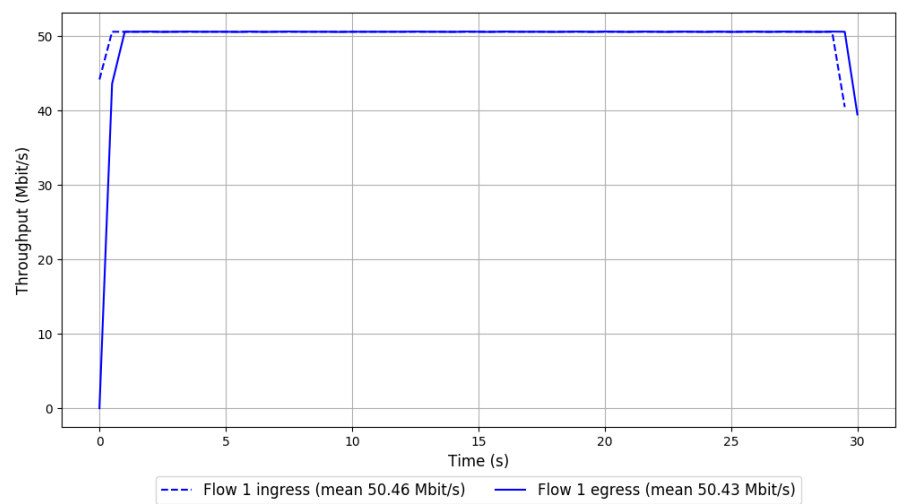
-- Flow 1:

Average throughput: 50.43 Mbit/s

95th percentile per-packet one-way delay: 10.172 ms

Loss rate: 0.05%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-01-19 06:57:03

End at: 2019-01-19 06:57:33

Local clock offset: -8.062 ms

Remote clock offset: 1.111 ms

# Below is generated by plot.py at 2019-01-19 07:29:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.31 Mbit/s

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

Loss rate: 0.07%

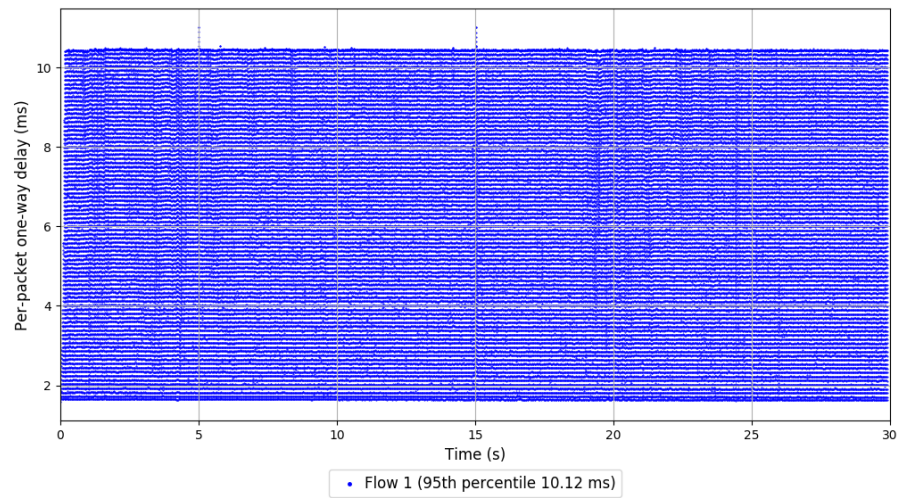
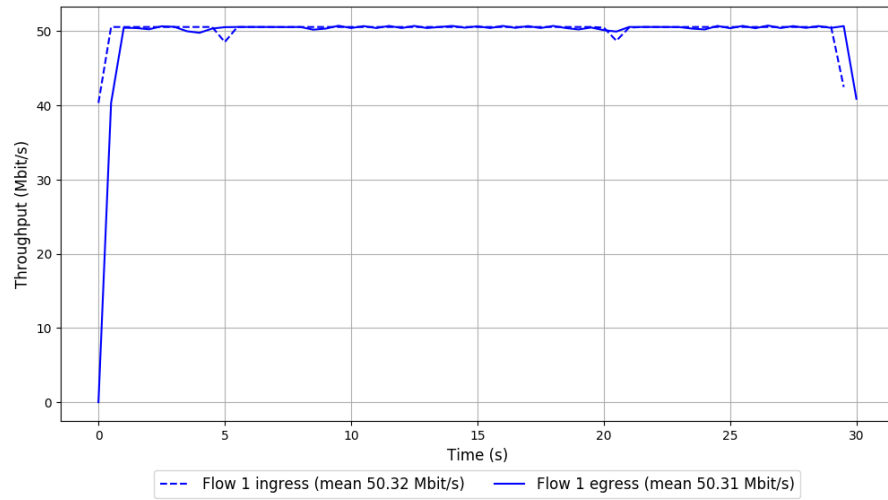
-- Flow 1:

Average throughput: 50.31 Mbit/s

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

Loss rate: 0.07%

## Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2019-01-19 05:23:08

End at: 2019-01-19 05:23:38

Local clock offset: -1.672 ms

Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2019-01-19 07:30:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 1.752 ms

Loss rate: 0.02%

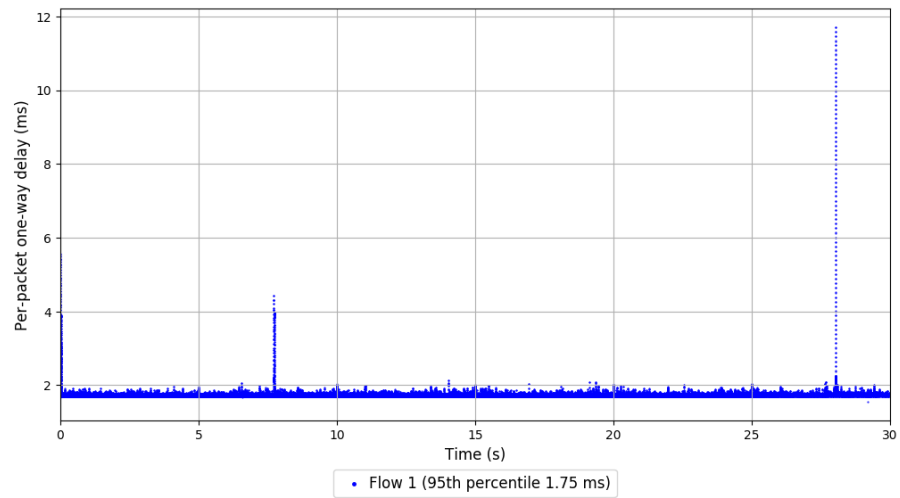
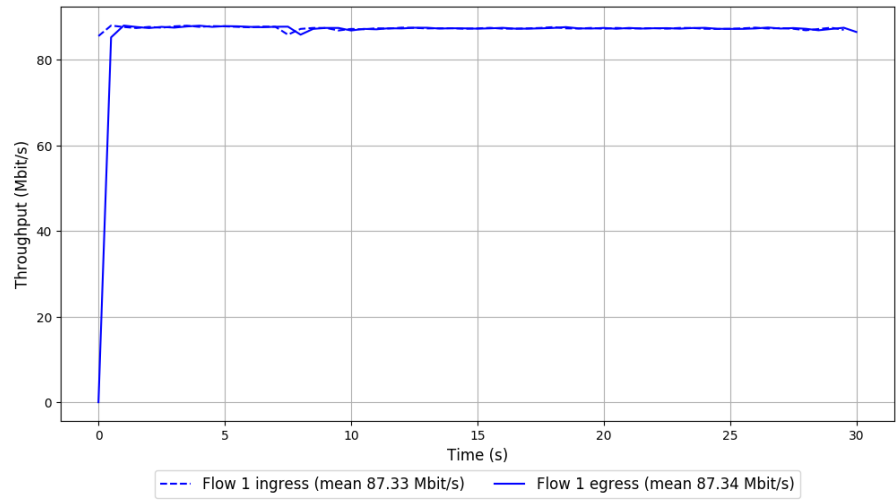
-- Flow 1:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 1.752 ms

Loss rate: 0.02%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-19 05:46:52

End at: 2019-01-19 05:47:22

Local clock offset: -0.624 ms

Remote clock offset: 0.771 ms

# Below is generated by plot.py at 2019-01-19 07:30:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 2.882 ms

Loss rate: 0.02%

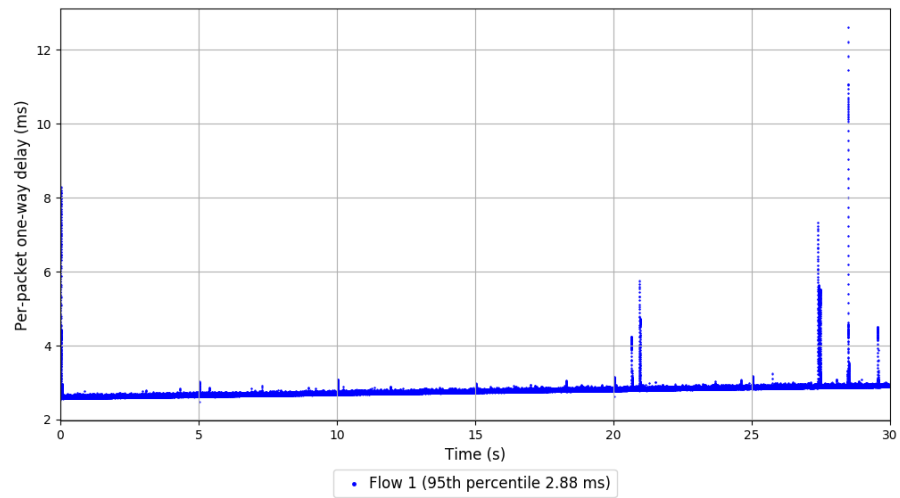
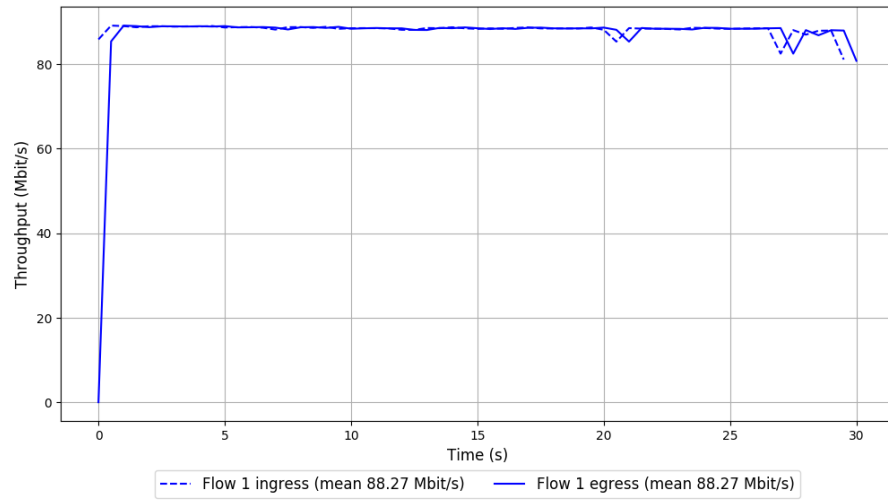
-- Flow 1:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 2.882 ms

Loss rate: 0.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-19 06:10:38

End at: 2019-01-19 06:11:08

Local clock offset: -7.484 ms

Remote clock offset: 0.91 ms

# Below is generated by plot.py at 2019-01-19 07:30:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 1.759 ms

Loss rate: 0.02%

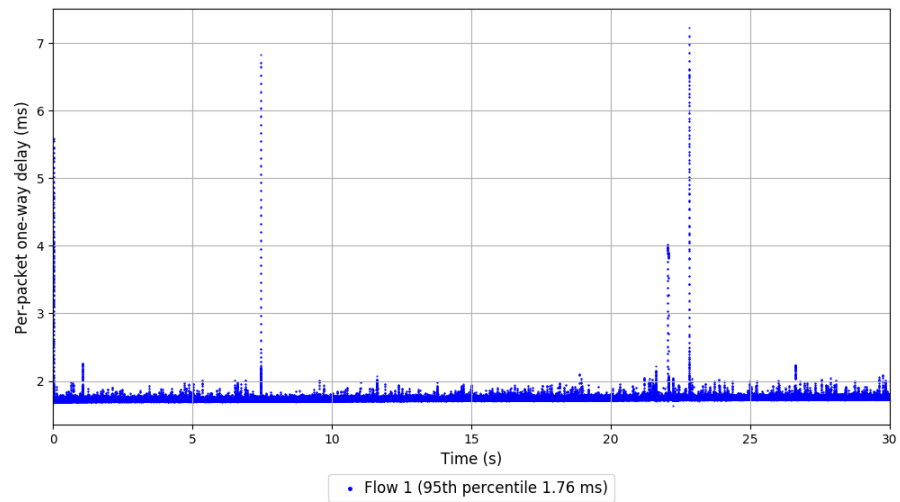
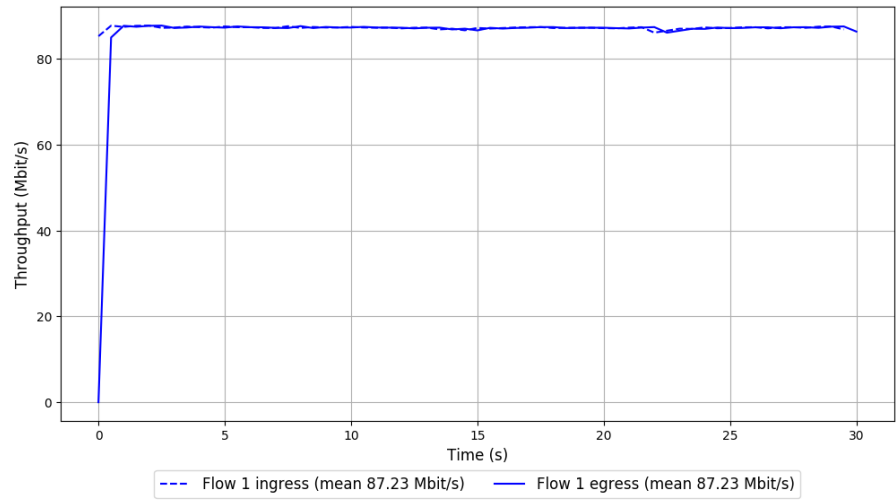
-- Flow 1:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 1.759 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-19 06:34:19

End at: 2019-01-19 06:34:49

Local clock offset: -8.222 ms

Remote clock offset: 1.025 ms

# Below is generated by plot.py at 2019-01-19 07:30:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.46 Mbit/s

95th percentile per-packet one-way delay: 1.700 ms

Loss rate: 0.02%

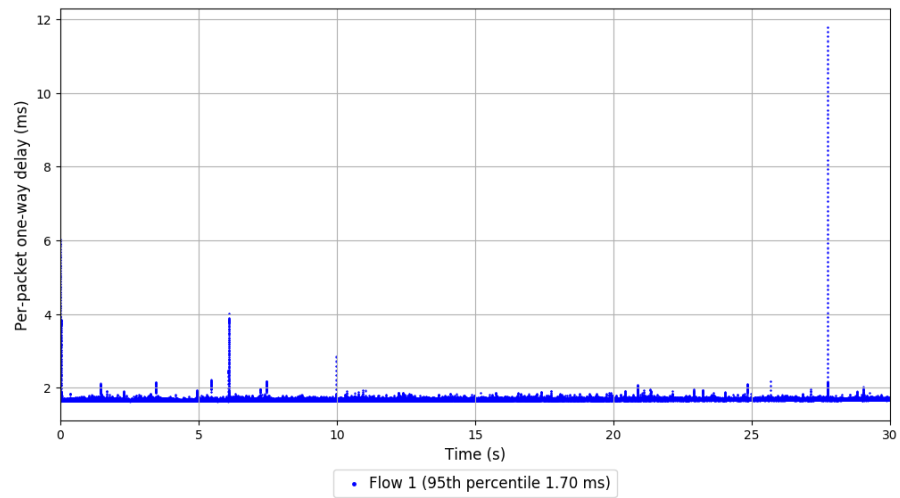
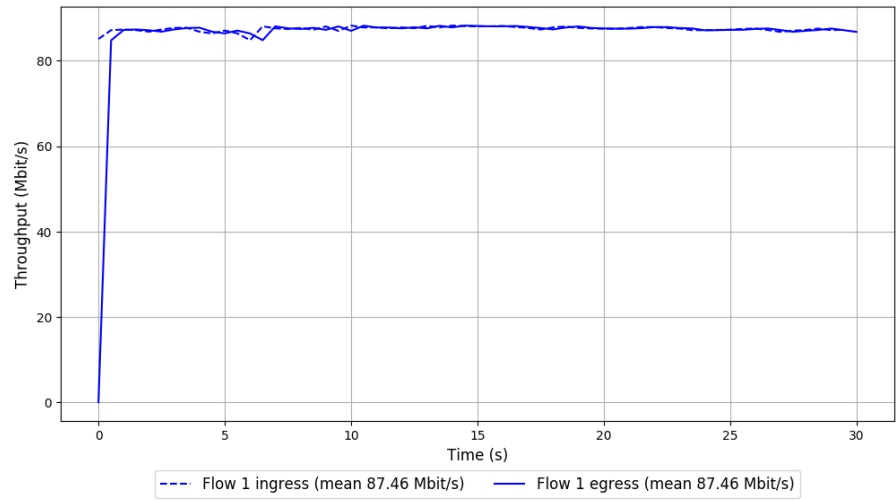
-- Flow 1:

Average throughput: 87.46 Mbit/s

95th percentile per-packet one-way delay: 1.700 ms

Loss rate: 0.02%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-19 06:58:09

End at: 2019-01-19 06:58:39

Local clock offset: -8.03 ms

Remote clock offset: 1.103 ms

# Below is generated by plot.py at 2019-01-19 07:31:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 1.670 ms

Loss rate: 0.02%

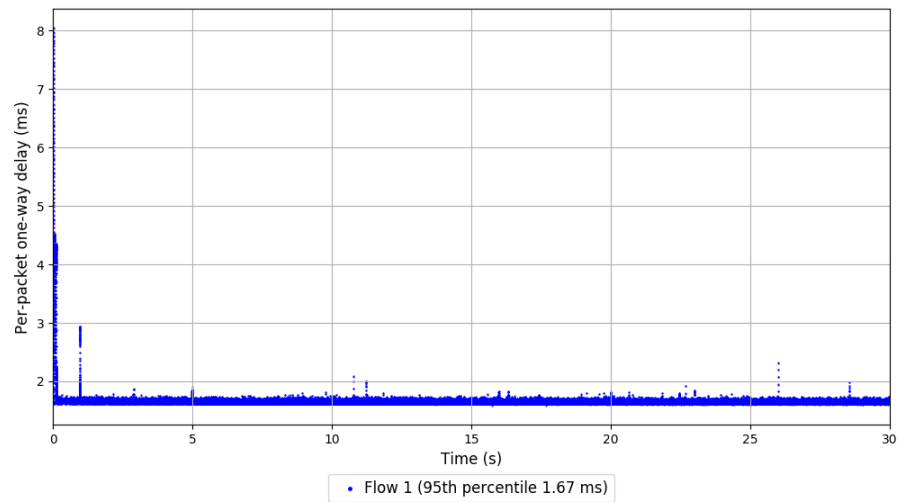
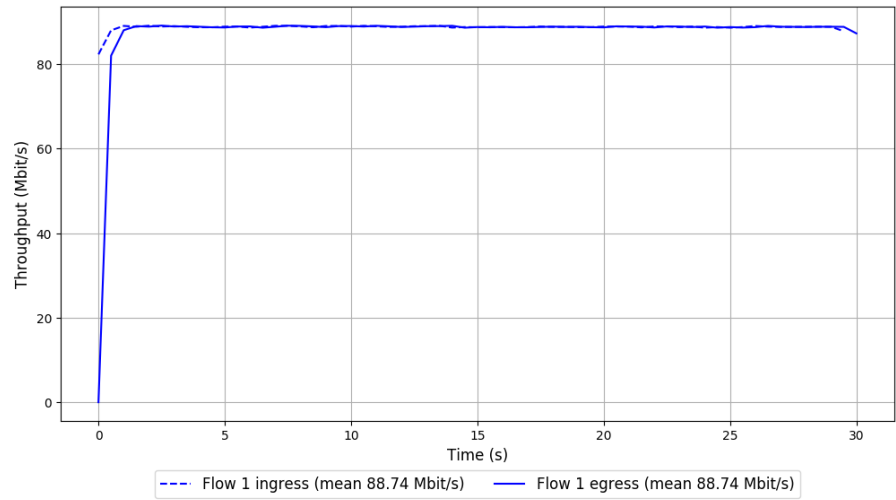
-- Flow 1:

Average throughput: 88.74 Mbit/s

95th percentile per-packet one-way delay: 1.670 ms

Loss rate: 0.02%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-19 05:33:30

End at: 2019-01-19 05:34:00

Local clock offset: -1.7 ms

Remote clock offset: 0.517 ms

# Below is generated by plot.py at 2019-01-19 07:31:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 3.016 ms

Loss rate: 0.02%

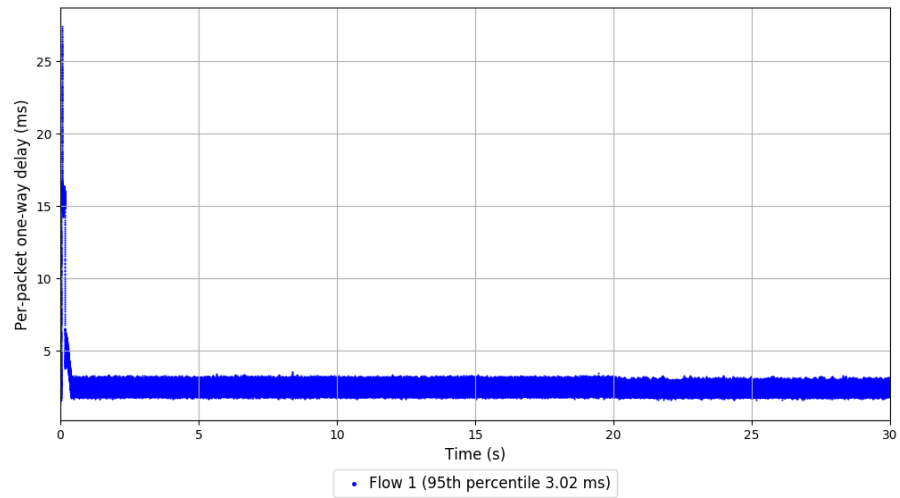
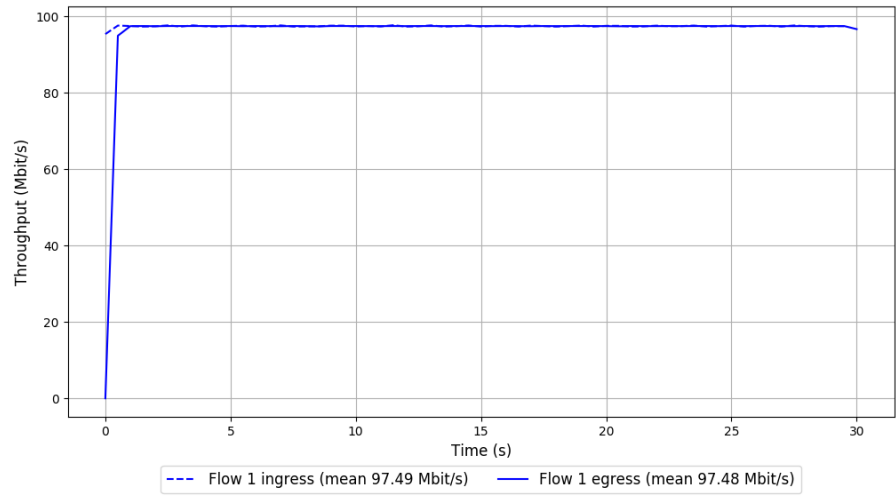
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 3.016 ms

Loss rate: 0.02%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-01-19 05:57:14

End at: 2019-01-19 05:57:44

Local clock offset: -4.822 ms

Remote clock offset: 0.869 ms

# Below is generated by plot.py at 2019-01-19 07:31:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 3.718 ms

Loss rate: 0.01%

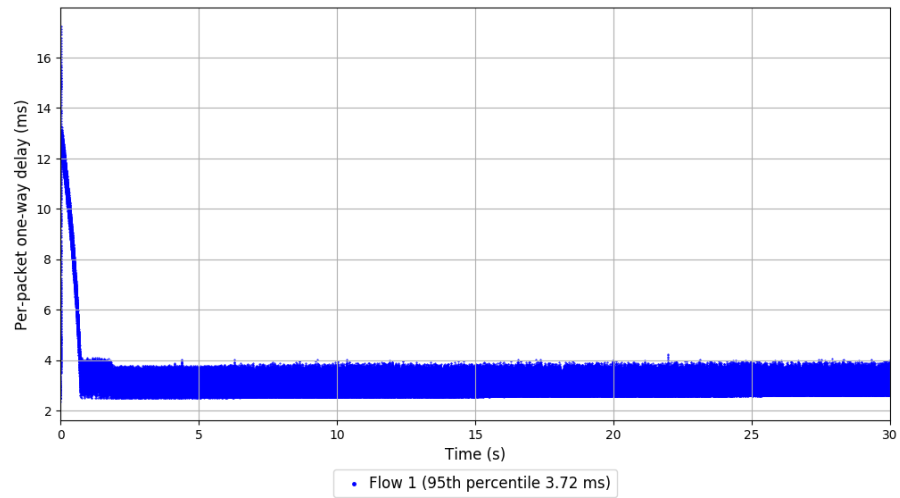
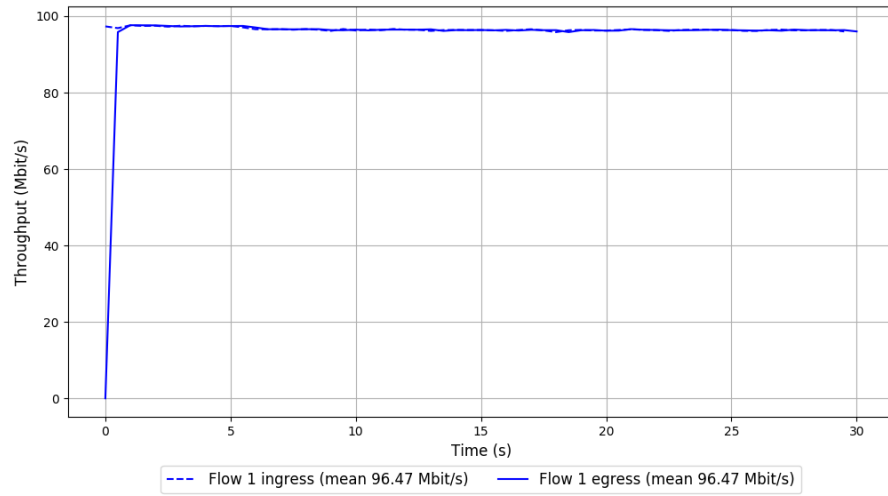
-- Flow 1:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 3.718 ms

Loss rate: 0.01%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-01-19 06:20:57

End at: 2019-01-19 06:21:27

Local clock offset: -7.939 ms

Remote clock offset: 0.939 ms

# Below is generated by plot.py at 2019-01-19 07:31:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 2.885 ms

Loss rate: 0.01%

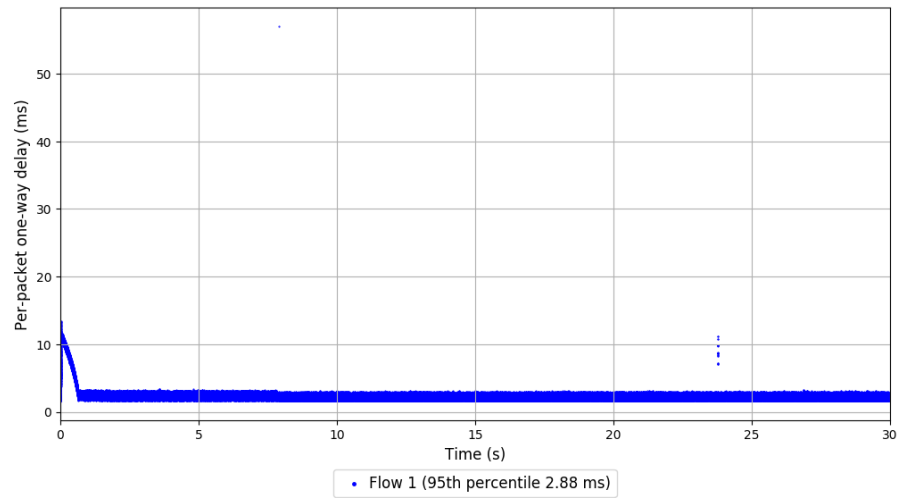
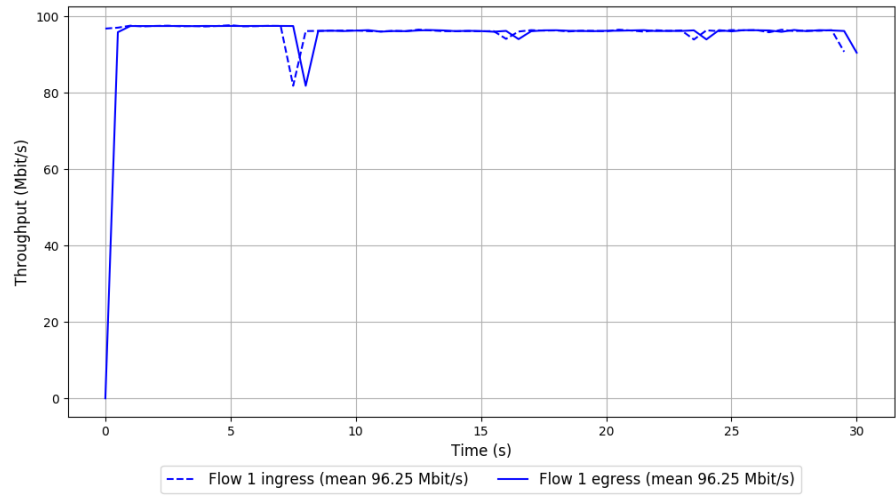
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 2.885 ms

Loss rate: 0.01%

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





Run 4: Statistics of TCP Vegas

Start at: 2019-01-19 06:44:41

End at: 2019-01-19 06:45:11

Local clock offset: -8.587 ms

Remote clock offset: 1.03 ms

# Below is generated by plot.py at 2019-01-19 07:31:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.86 Mbit/s

95th percentile per-packet one-way delay: 3.059 ms

Loss rate: 0.01%

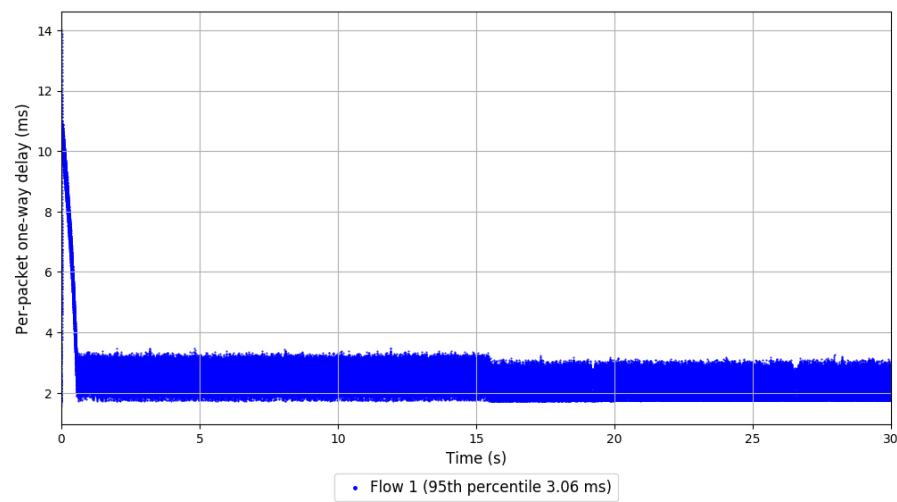
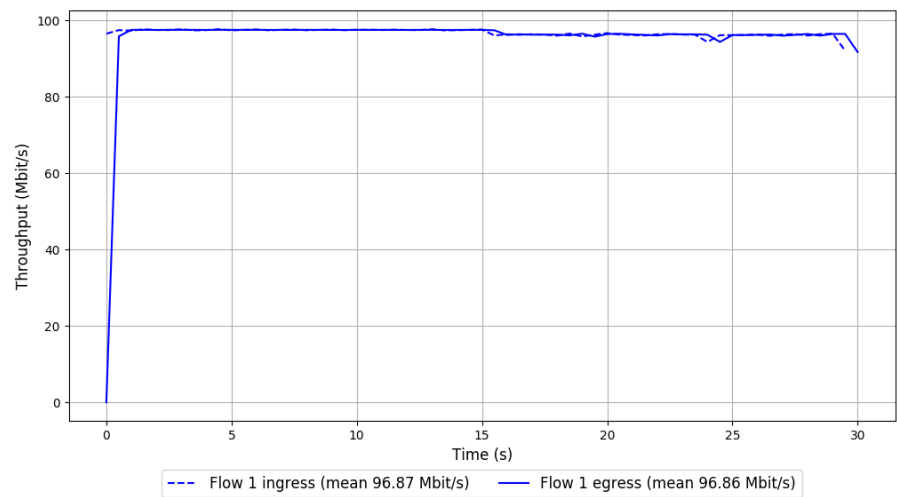
-- Flow 1:

Average throughput: 96.86 Mbit/s

95th percentile per-packet one-way delay: 3.059 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-01-19 07:08:27

End at: 2019-01-19 07:08:57

Local clock offset: -7.941 ms

Remote clock offset: 1.097 ms

# Below is generated by plot.py at 2019-01-19 07:31:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 3.002 ms

Loss rate: 0.01%

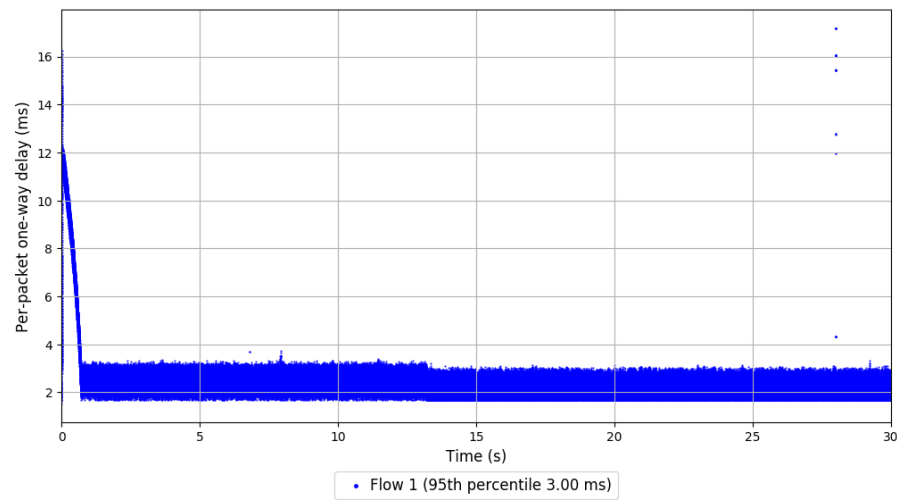
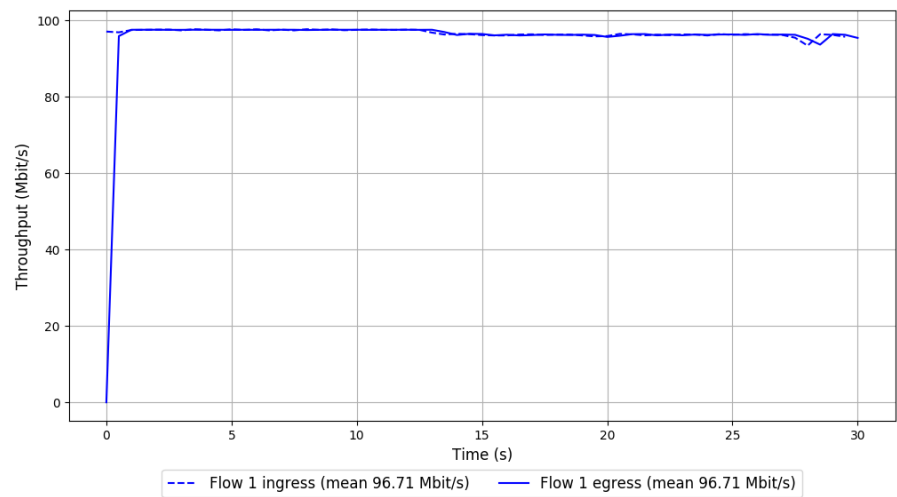
-- Flow 1:

Average throughput: 96.71 Mbit/s

95th percentile per-packet one-way delay: 3.002 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-19 05:24:19

End at: 2019-01-19 05:24:49

Local clock offset: -1.696 ms

Remote clock offset: 0.288 ms

# Below is generated by plot.py at 2019-01-19 07:31:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 13.338 ms

Loss rate: 0.06%

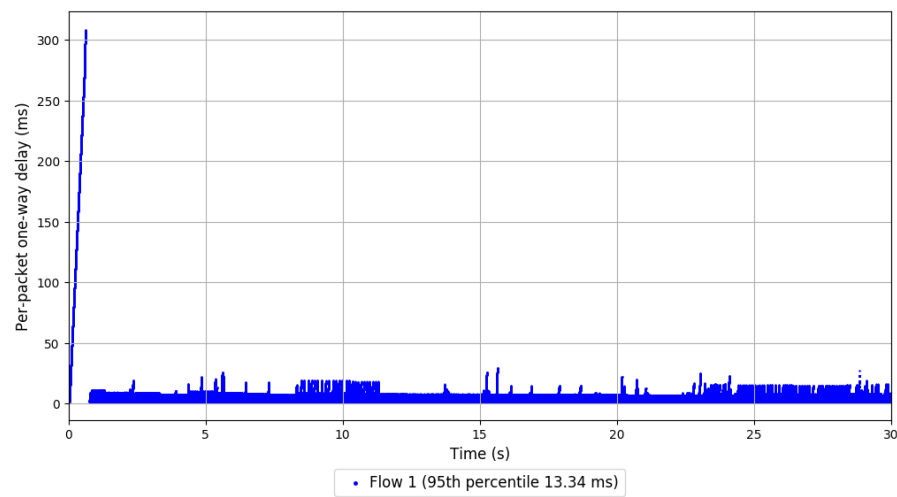
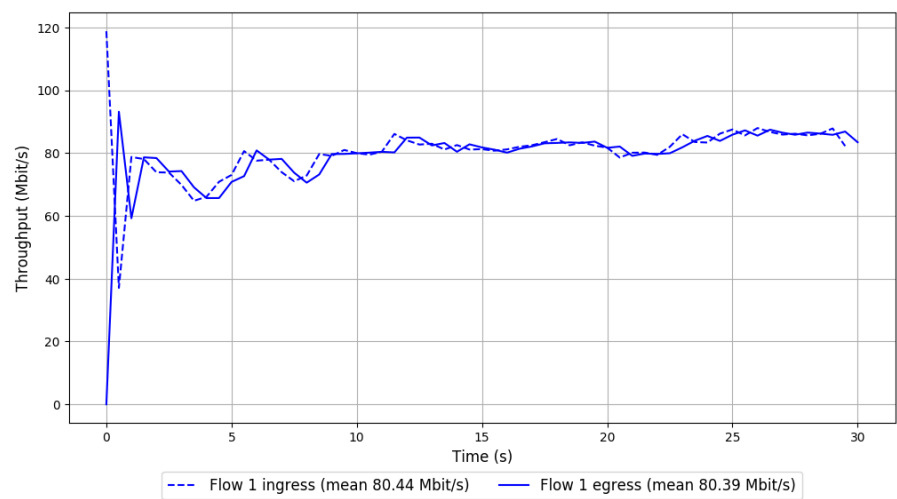
-- Flow 1:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 13.338 ms

Loss rate: 0.06%

Run 1: Report of Verus — Data Link

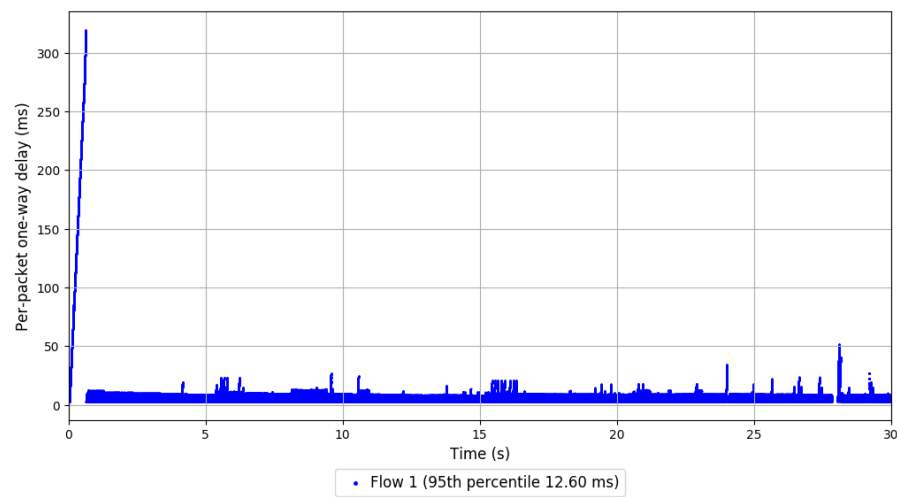
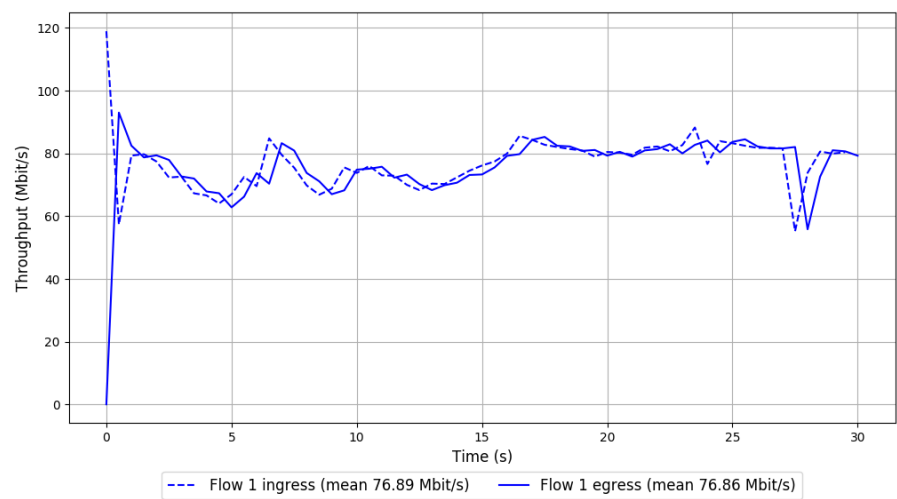


Run 2: Statistics of Verus

Start at: 2019-01-19 05:48:03  
End at: 2019-01-19 05:48:33  
Local clock offset: -1.274 ms  
Remote clock offset: 0.762 ms

# Below is generated by plot.py at 2019-01-19 07:31:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.86 Mbit/s  
95th percentile per-packet one-way delay: 12.599 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 76.86 Mbit/s  
95th percentile per-packet one-way delay: 12.599 ms  
Loss rate: 0.03%

Run 2: Report of Verus — Data Link



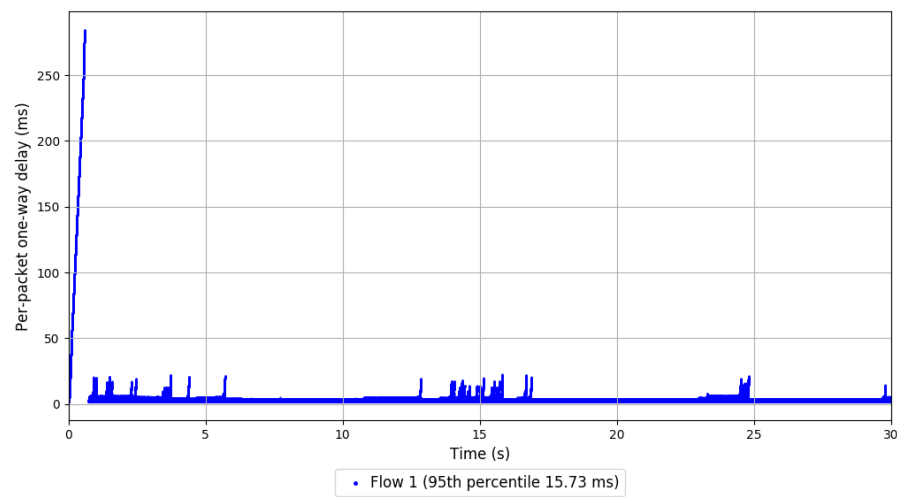
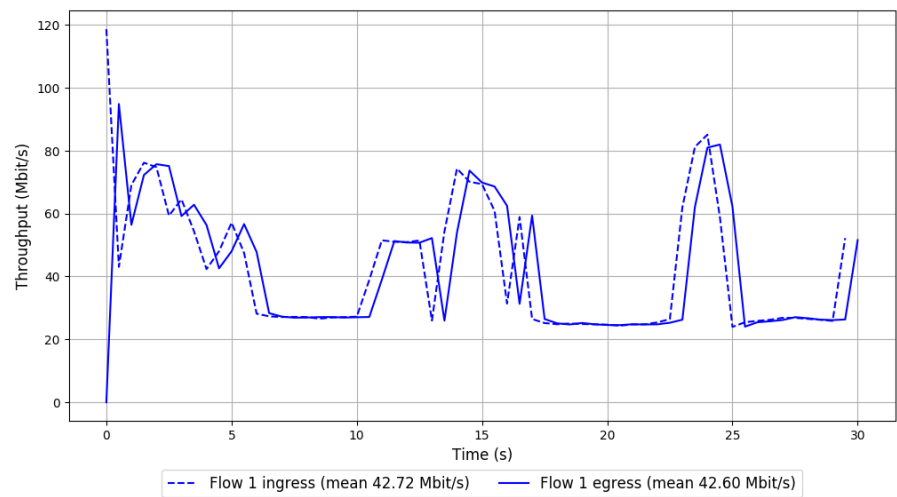


Run 3: Statistics of Verus

Start at: 2019-01-19 06:11:48  
End at: 2019-01-19 06:12:18  
Local clock offset: -7.591 ms  
Remote clock offset: 0.956 ms

# Below is generated by plot.py at 2019-01-19 07:31:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 42.60 Mbit/s  
95th percentile per-packet one-way delay: 15.734 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 42.60 Mbit/s  
95th percentile per-packet one-way delay: 15.734 ms  
Loss rate: 0.30%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-19 06:35:30

End at: 2019-01-19 06:36:00

Local clock offset: -7.553 ms

Remote clock offset: 0.987 ms

# Below is generated by plot.py at 2019-01-19 07:31:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 11.414 ms

Loss rate: 0.04%

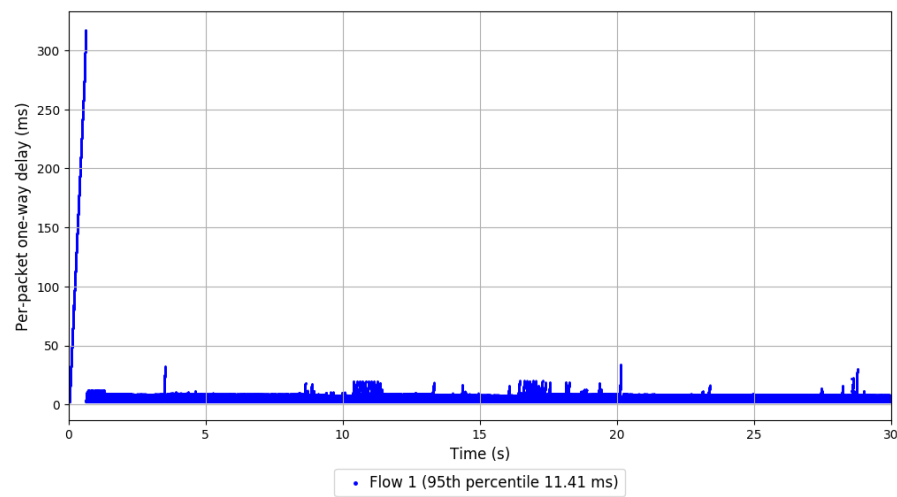
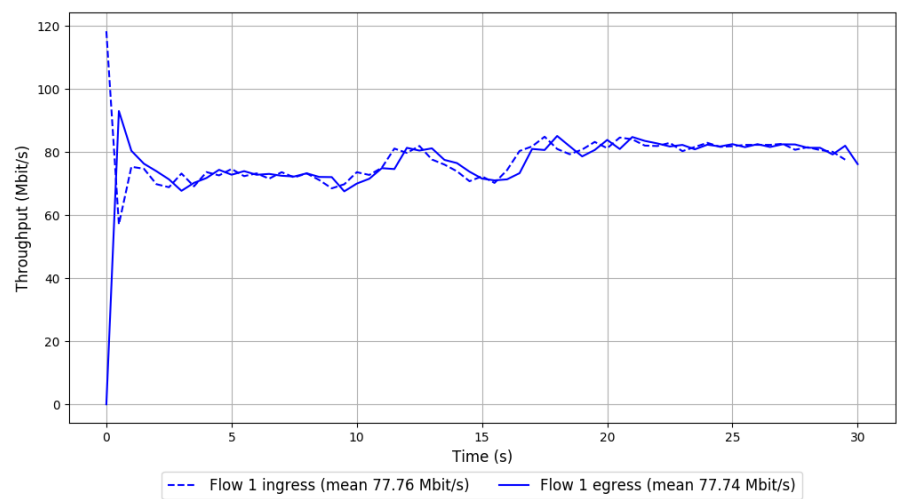
-- Flow 1:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 11.414 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-19 06:59:20

End at: 2019-01-19 06:59:50

Local clock offset: -7.948 ms

Remote clock offset: 1.066 ms

# Below is generated by plot.py at 2019-01-19 07:31:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 12.223 ms

Loss rate: 0.02%

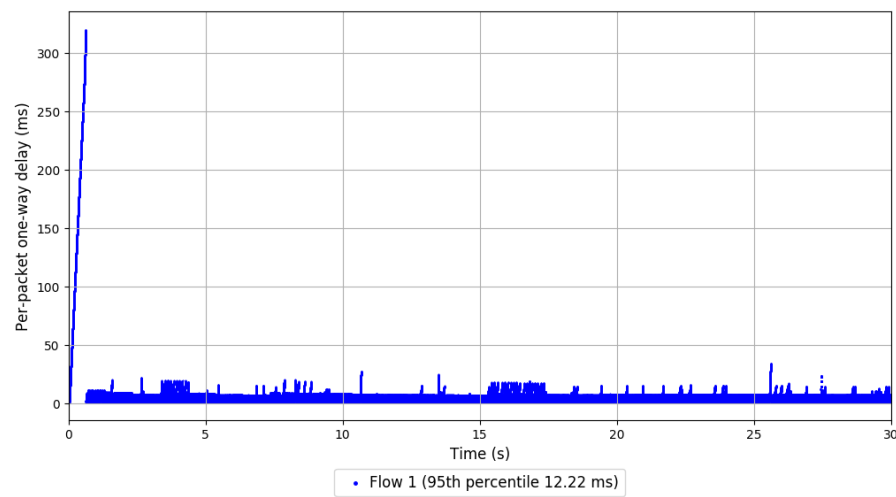
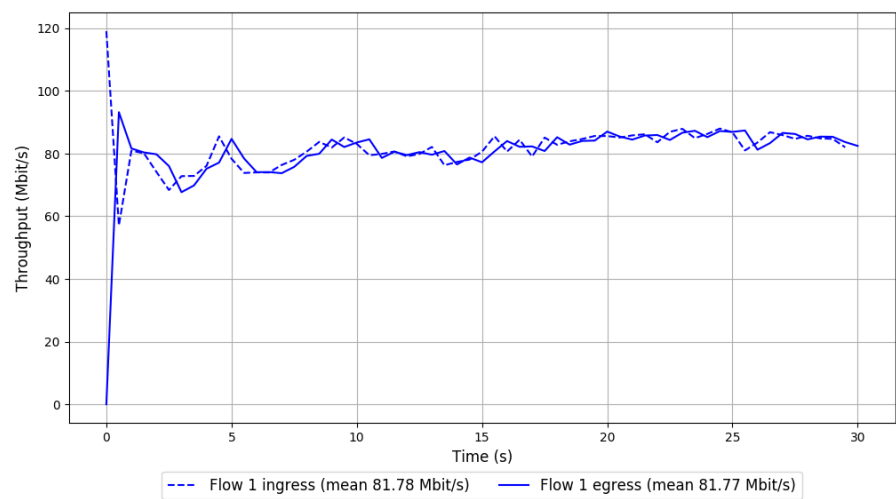
-- Flow 1:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 12.223 ms

Loss rate: 0.02%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-19 05:28:53

End at: 2019-01-19 05:29:23

Local clock offset: -0.985 ms

Remote clock offset: 0.359 ms

# Below is generated by plot.py at 2019-01-19 07:32:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 2.511 ms

Loss rate: 0.02%

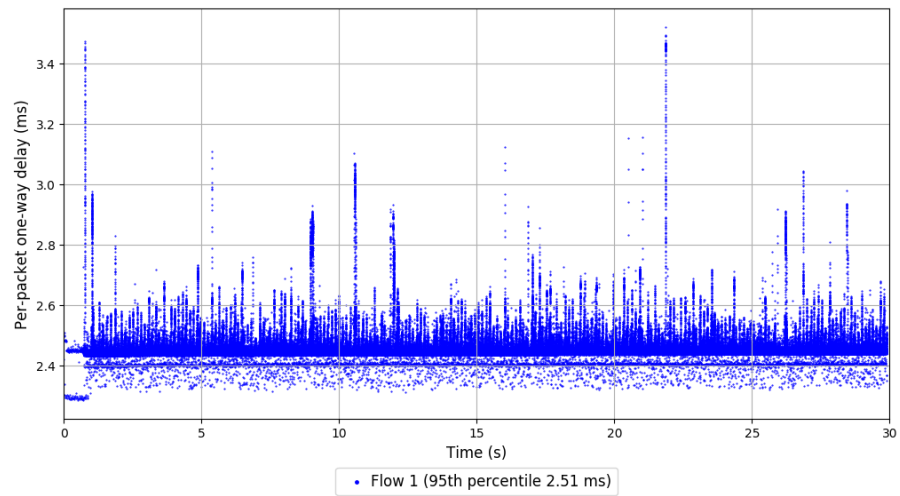
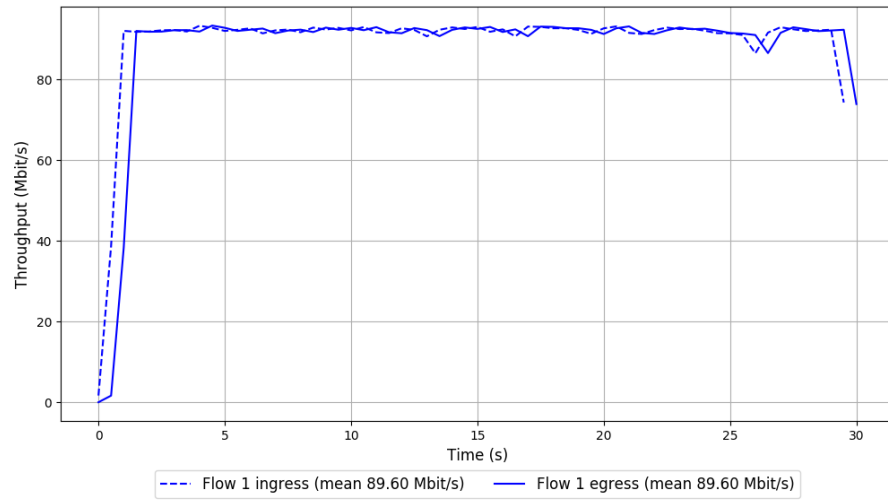
-- Flow 1:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 2.511 ms

Loss rate: 0.02%

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





Run 2: Statistics of PCC-Vivace

Start at: 2019-01-19 05:52:36

End at: 2019-01-19 05:53:06

Local clock offset: -4.218 ms

Remote clock offset: 0.8 ms

# Below is generated by plot.py at 2019-01-19 07:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.02 Mbit/s

95th percentile per-packet one-way delay: 1.996 ms

Loss rate: 0.02%

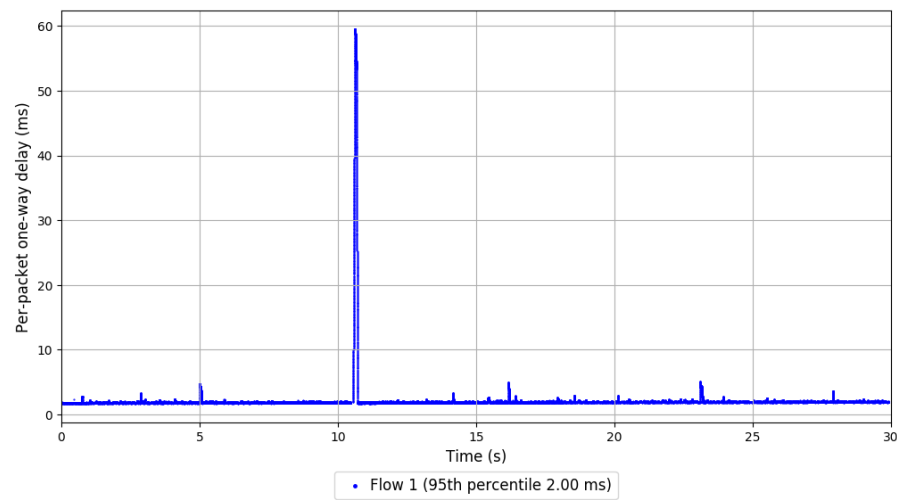
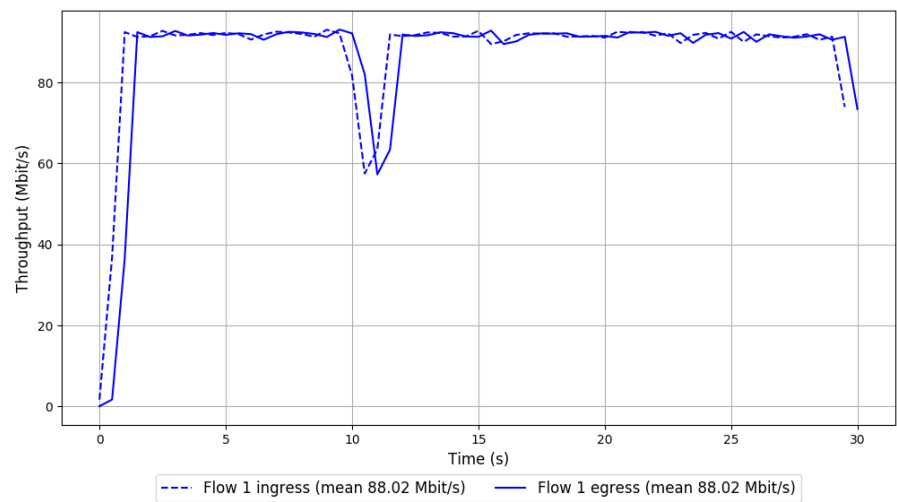
-- Flow 1:

Average throughput: 88.02 Mbit/s

95th percentile per-packet one-way delay: 1.996 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-19 06:16:19

End at: 2019-01-19 06:16:49

Local clock offset: -7.167 ms

Remote clock offset: 0.896 ms

# Below is generated by plot.py at 2019-01-19 07:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 2.542 ms

Loss rate: 0.02%

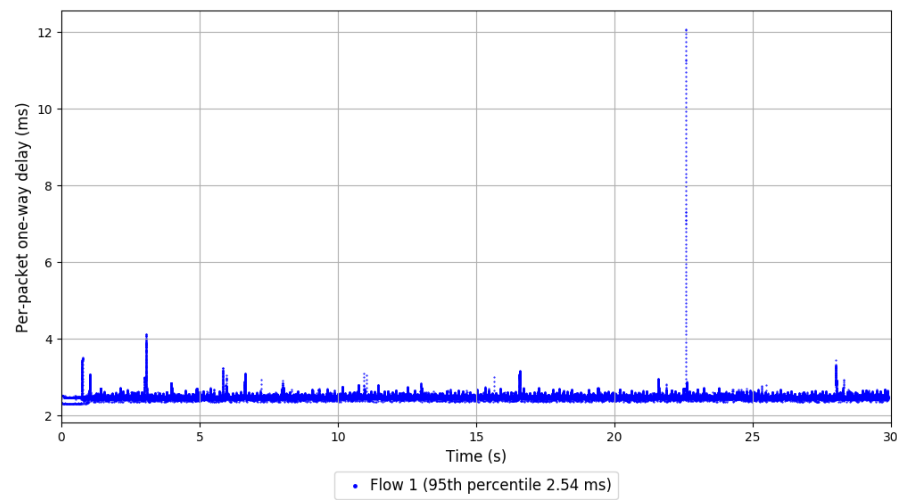
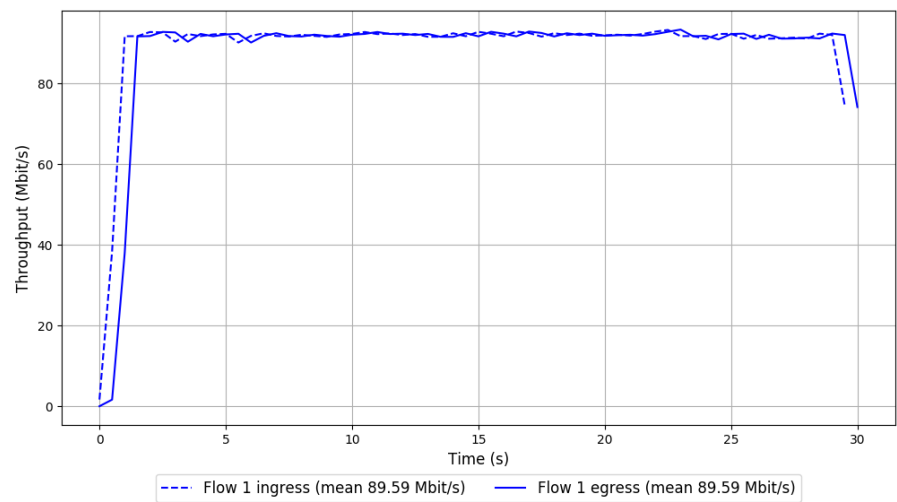
-- Flow 1:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 2.542 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-19 06:40:04

End at: 2019-01-19 06:40:34

Local clock offset: -7.736 ms

Remote clock offset: 1.102 ms

# Below is generated by plot.py at 2019-01-19 07:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.49 Mbit/s

95th percentile per-packet one-way delay: 2.383 ms

Loss rate: 0.02%

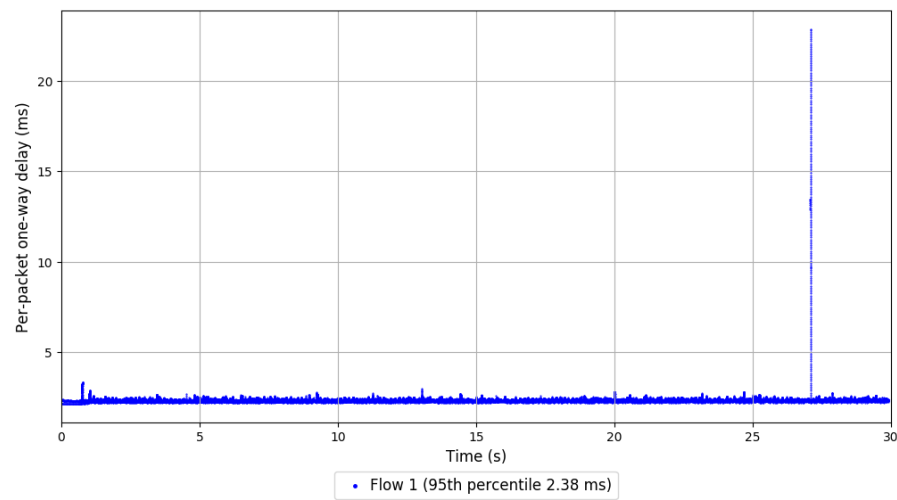
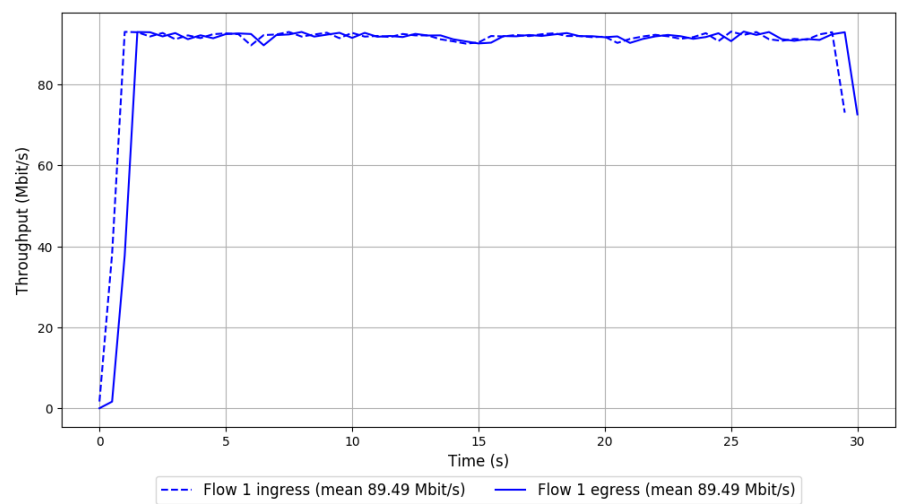
-- Flow 1:

Average throughput: 89.49 Mbit/s

95th percentile per-packet one-way delay: 2.383 ms

Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-19 07:03:54

End at: 2019-01-19 07:04:24

Local clock offset: -7.922 ms

Remote clock offset: 1.093 ms

# Below is generated by plot.py at 2019-01-19 07:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 18.30 Mbit/s

95th percentile per-packet one-way delay: 1.685 ms

Loss rate: 0.01%

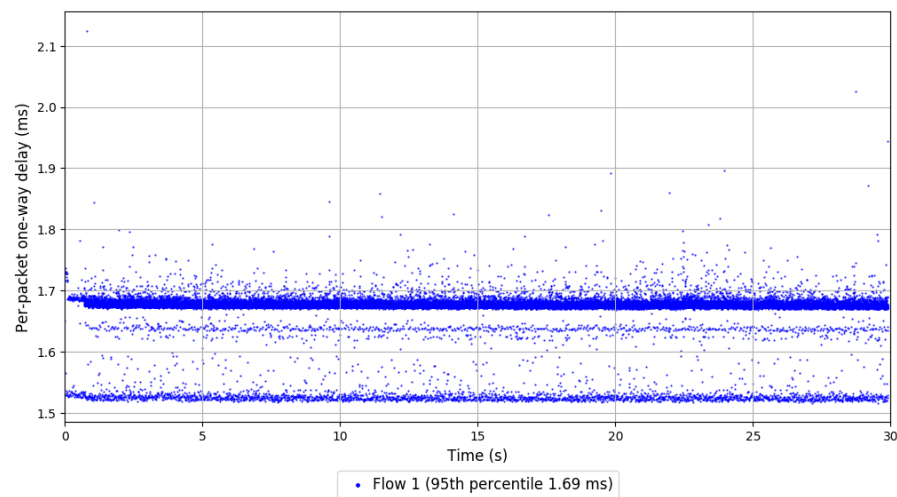
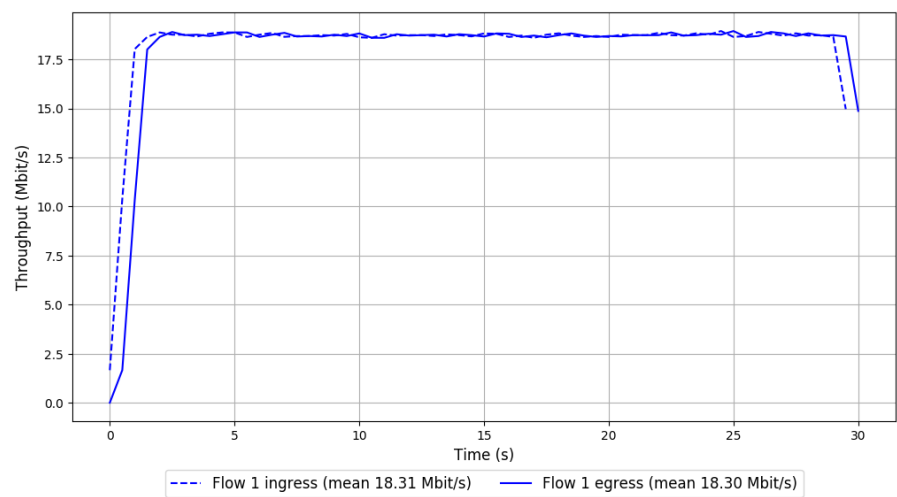
-- Flow 1:

Average throughput: 18.30 Mbit/s

95th percentile per-packet one-way delay: 1.685 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link





Run 1: Statistics of WebRTC media

Start at: 2019-01-19 05:35:45

End at: 2019-01-19 05:36:15

Local clock offset: -0.884 ms

Remote clock offset: 0.593 ms

# Below is generated by plot.py at 2019-01-19 07:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 2.788 ms

Loss rate: 0.00%

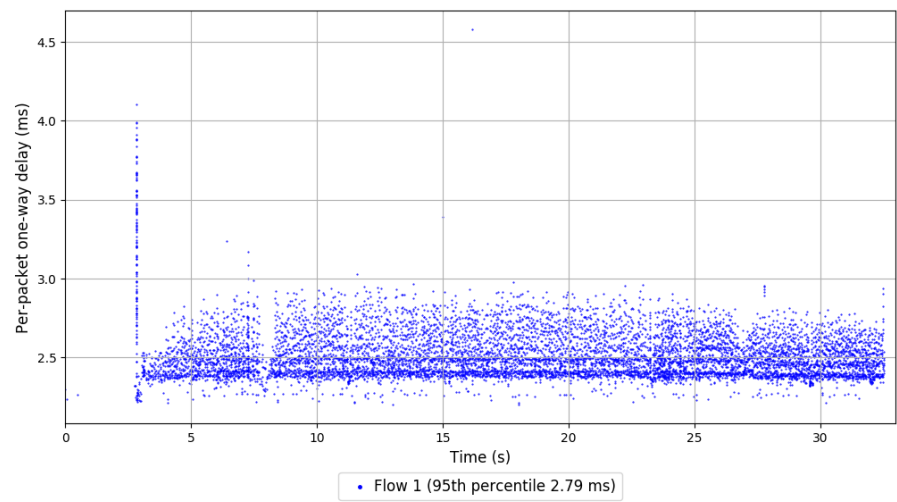
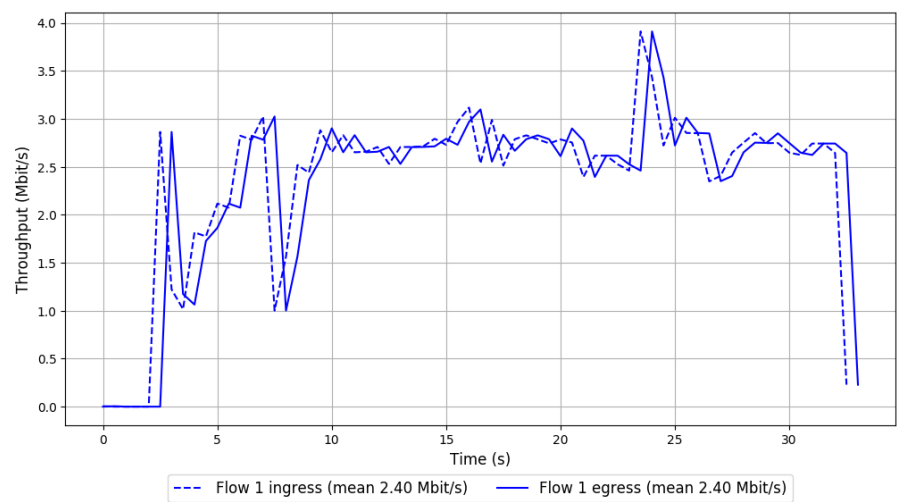
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 2.788 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-19 05:59:29

End at: 2019-01-19 05:59:59

Local clock offset: -5.366 ms

Remote clock offset: 0.833 ms

# Below is generated by plot.py at 2019-01-19 07:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.982 ms

Loss rate: 0.00%

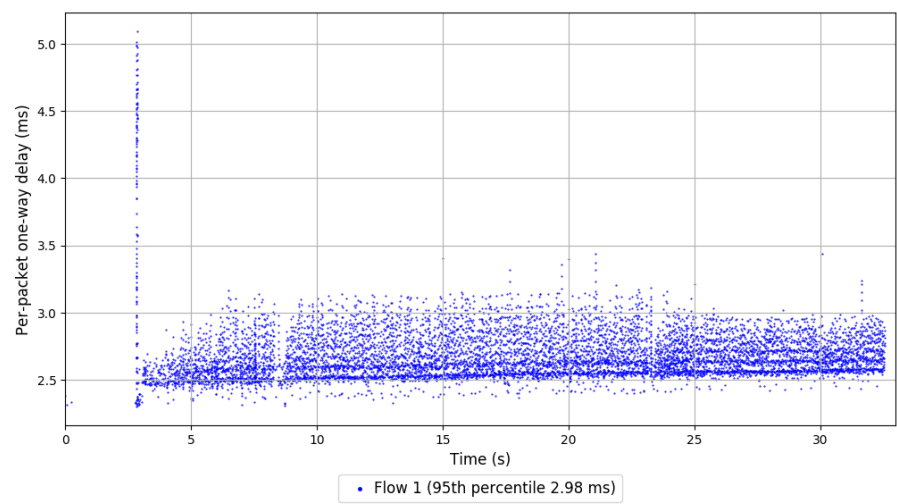
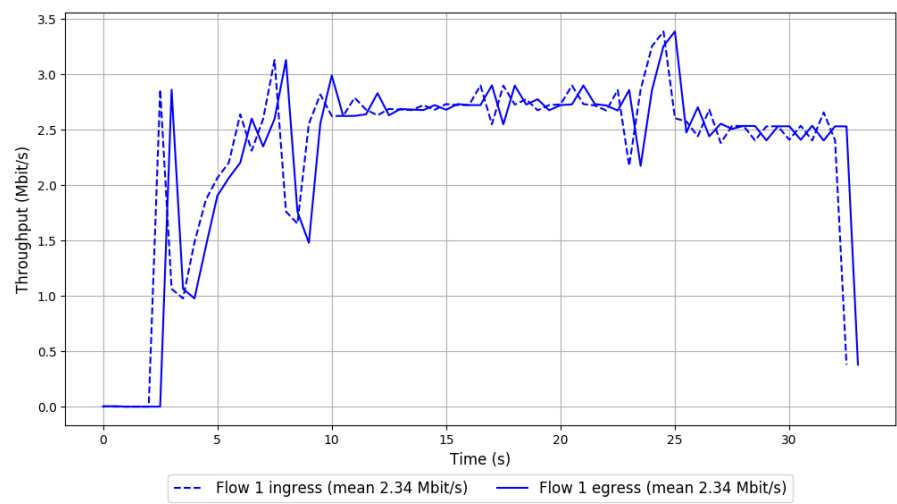
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.982 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-19 06:23:12

End at: 2019-01-19 06:23:42

Local clock offset: -7.25 ms

Remote clock offset: 0.943 ms

# Below is generated by plot.py at 2019-01-19 07:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.804 ms

Loss rate: 0.00%

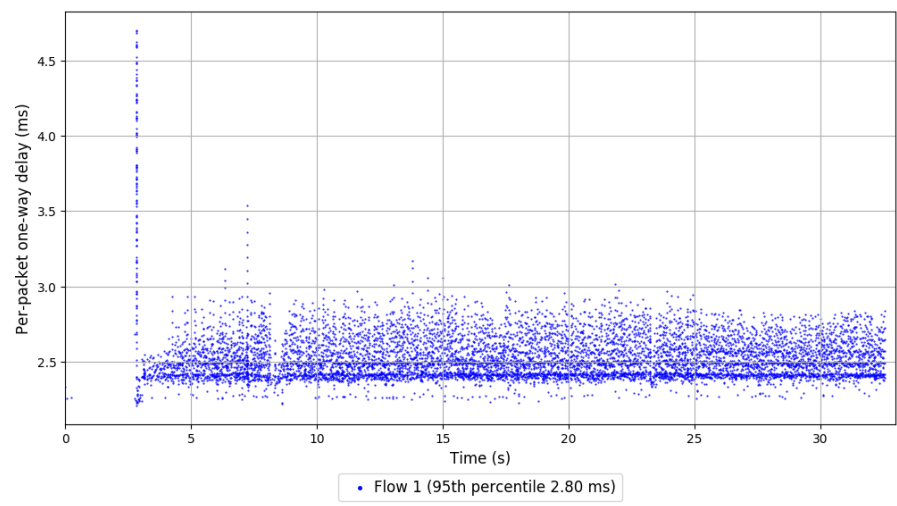
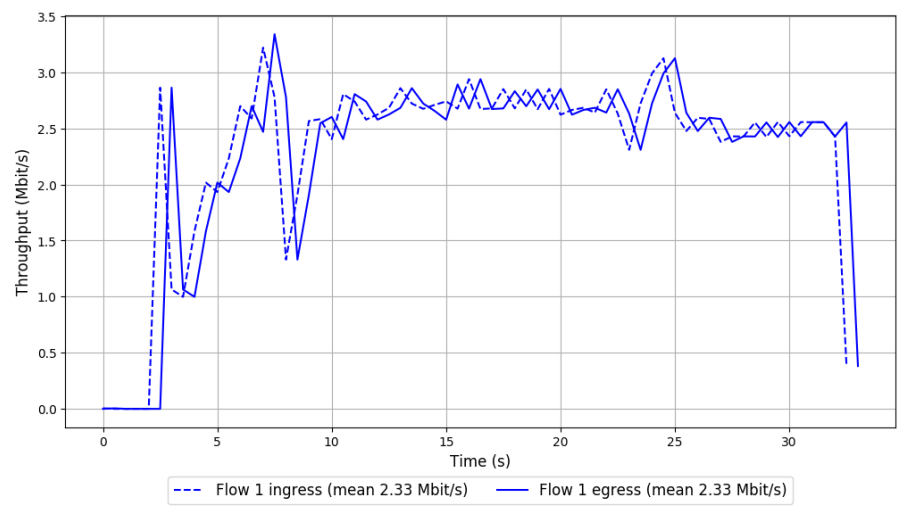
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 2.804 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-19 06:46:56

End at: 2019-01-19 06:47:26

Local clock offset: -7.977 ms

Remote clock offset: 1.083 ms

# Below is generated by plot.py at 2019-01-19 07:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.734 ms

Loss rate: 0.00%

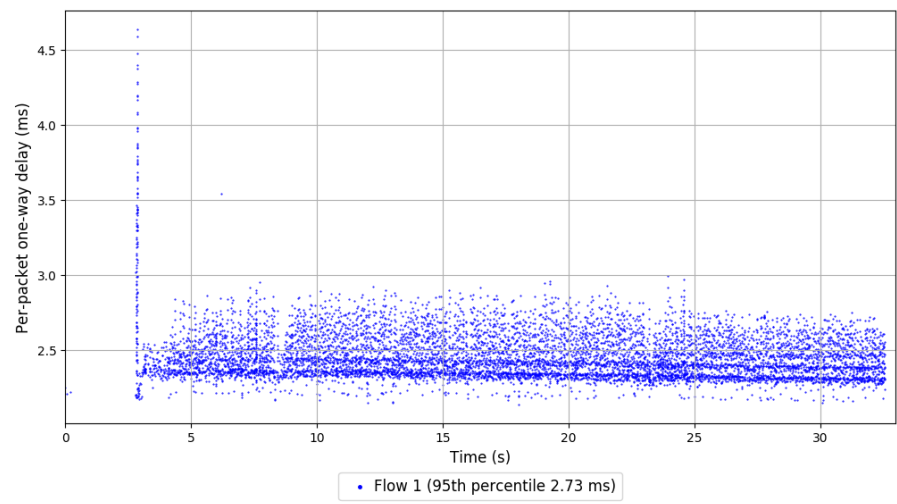
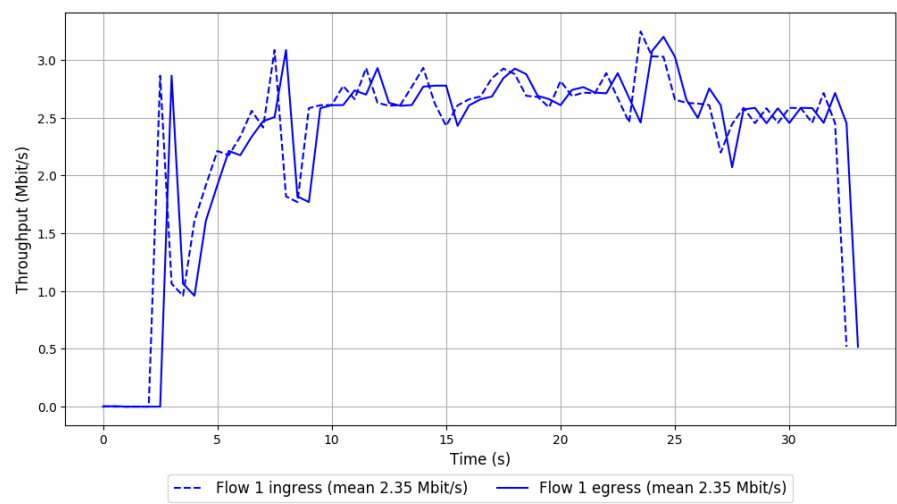
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 2.734 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-19 07:10:43

End at: 2019-01-19 07:11:13

Local clock offset: -7.19 ms

Remote clock offset: 1.126 ms

# Below is generated by plot.py at 2019-01-19 07:32:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.857 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 2.857 ms

Loss rate: 0.08%

Run 5: Report of WebRTC media — Data Link

