

## Pantheon Report

Generated at 2019-04-23 21:14:36 (UTC).

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

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:

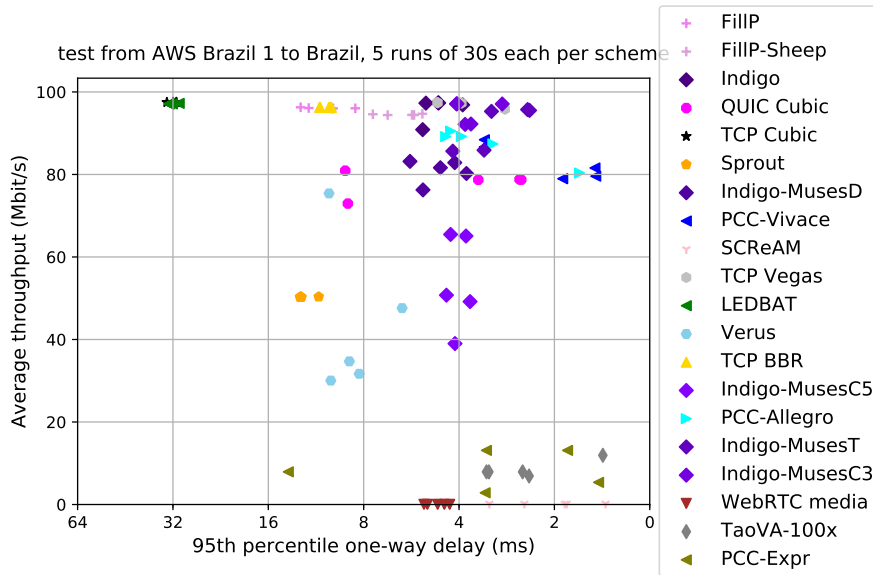
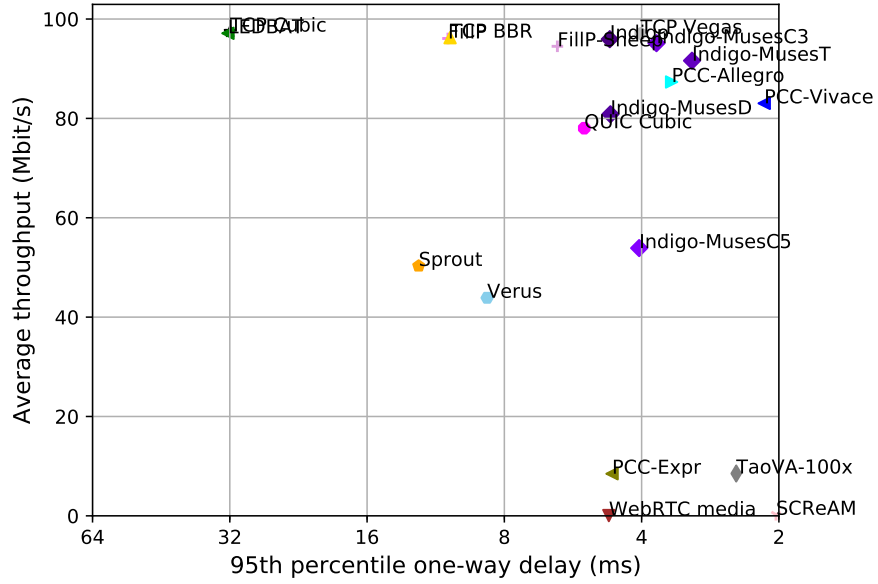
```
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	5	96.25	10.52	0.00
Copa	0	N/A	N/A	N/A
TCP Cubic	5	97.47	31.95	0.01
FillP	5	96.09	10.63	0.28
FillP-Sheep	5	94.51	6.12	0.08
Indigo	5	95.94	4.70	0.00
Indigo-MusesC3	5	95.14	3.71	0.00
Indigo-MusesC5	5	53.90	4.05	0.00
Indigo-MusesD	5	80.83	4.68	0.00
Indigo-MusesT	5	91.62	3.10	0.00
LEDBAT	5	97.13	32.30	0.01
PCC-Allegro	5	87.33	3.44	0.00
PCC-Expr	5	8.48	4.64	25.73
QUIC Cubic	5	78.03	5.34	0.25
SReAM	5	0.22	2.03	0.00
Sprout	5	50.31	12.33	0.00
TaoVA-100x	5	8.52	2.48	72.68
TCP Vegas	5	97.06	4.02	0.00
Verus	5	43.89	8.73	1.71
PCC-Vivace	5	83.03	2.15	0.00
WebRTC media	5	0.05	4.72	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-04-23 19:23:22

End at: 2019-04-23 19:23:52

Local clock offset: -3.258 ms

Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-04-23 21:04:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 10.291 ms

Loss rate: 0.00%

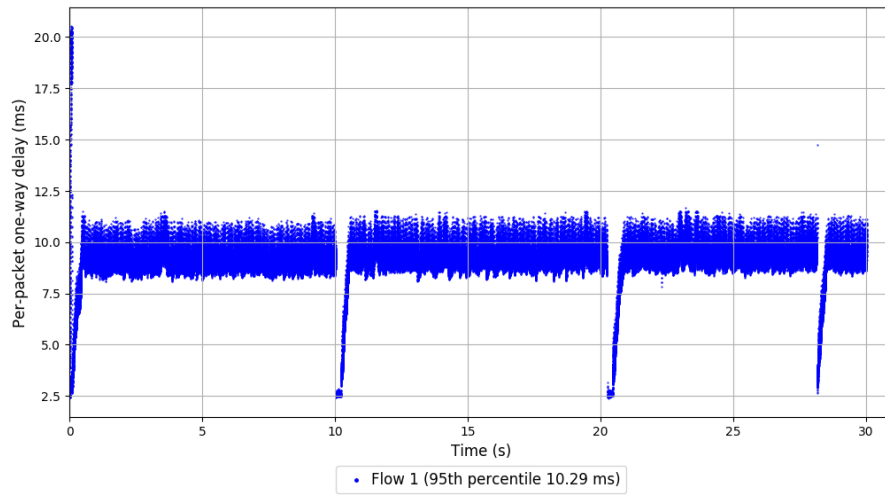
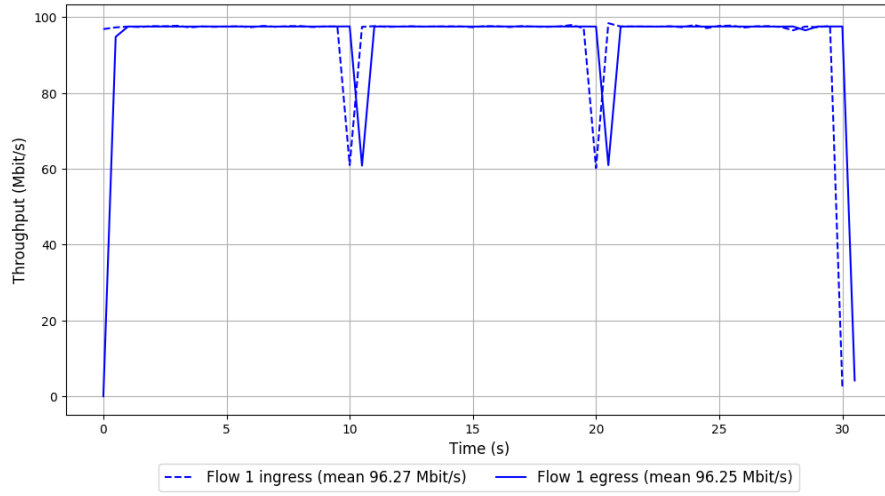
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 10.291 ms

Loss rate: 0.00%

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



Run 2: Statistics of TCP BBR

Start at: 2019-04-23 19:46:50

End at: 2019-04-23 19:47:20

Local clock offset: -4.002 ms

Remote clock offset: 0.167 ms

# Below is generated by plot.py at 2019-04-23 21:04:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 11.020 ms

Loss rate: 0.00%

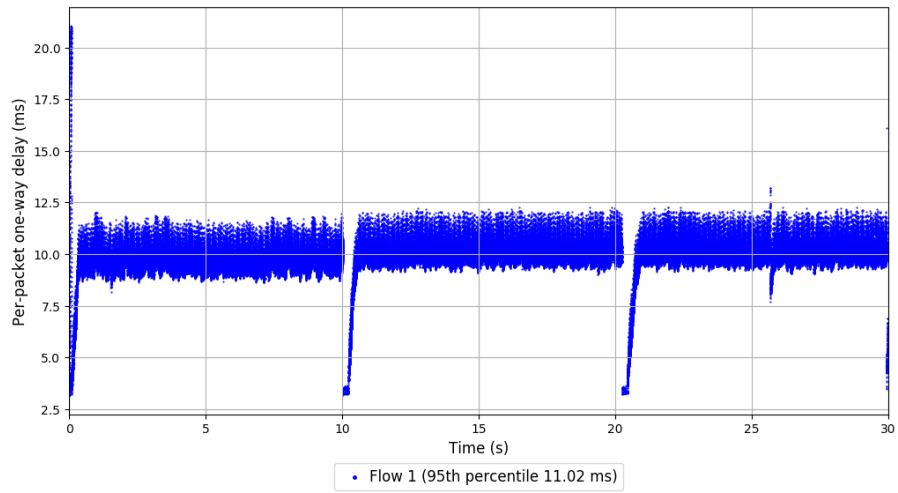
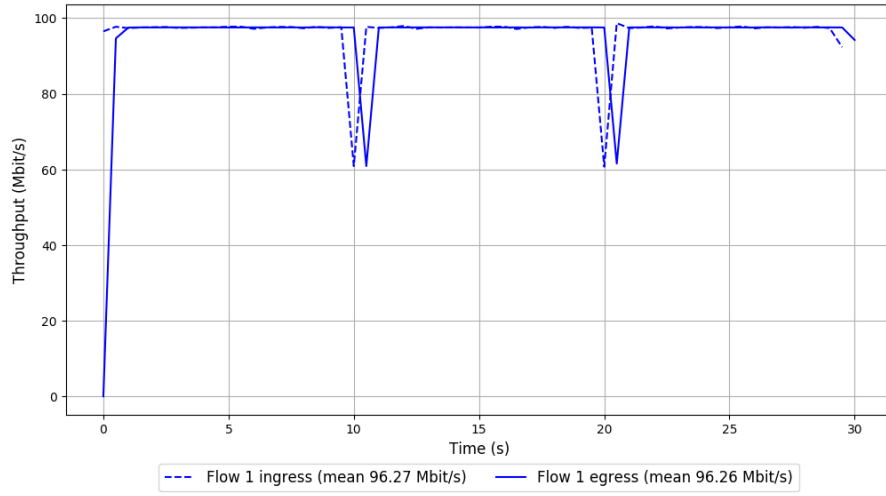
-- Flow 1:

Average throughput: 96.26 Mbit/s

95th percentile per-packet one-way delay: 11.020 ms

Loss rate: 0.00%

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



Run 3: Statistics of TCP BBR

Start at: 2019-04-23 20:10:18

End at: 2019-04-23 20:10:48

Local clock offset: -2.162 ms

Remote clock offset: 0.323 ms

# Below is generated by plot.py at 2019-04-23 21:04:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 10.199 ms

Loss rate: 0.00%

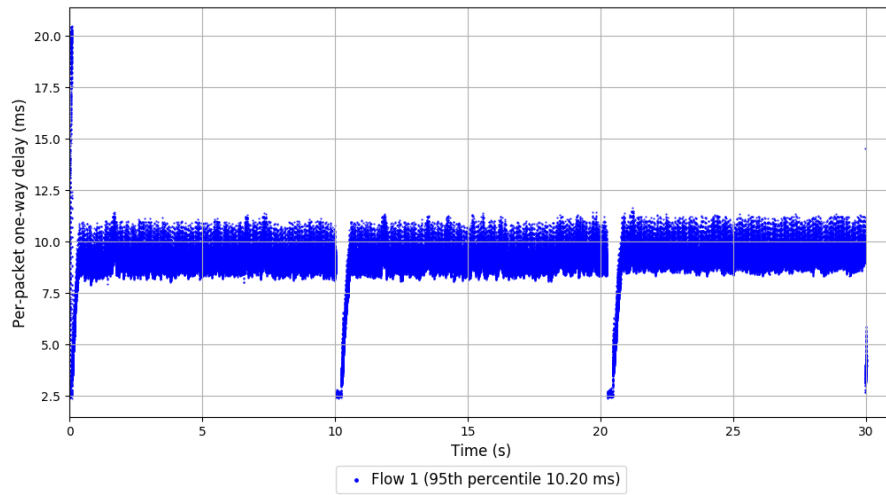
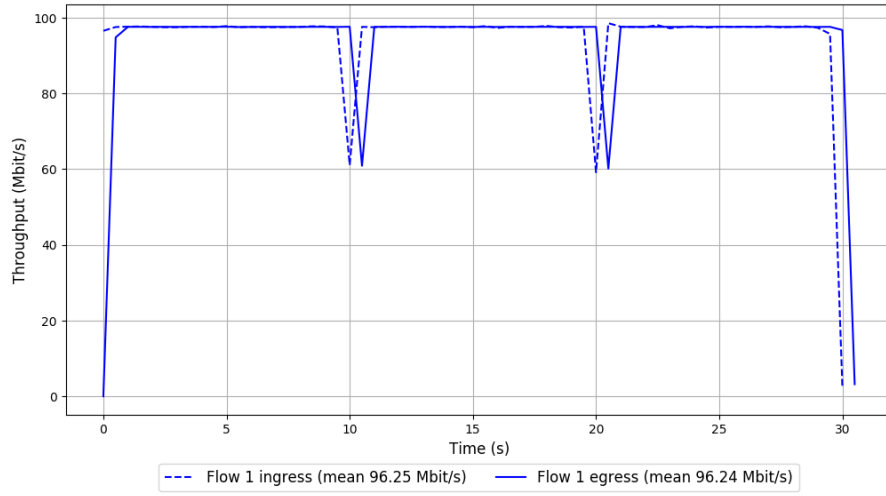
-- Flow 1:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 10.199 ms

Loss rate: 0.00%

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



Run 4: Statistics of TCP BBR

Start at: 2019-04-23 20:33:44

End at: 2019-04-23 20:34:14

Local clock offset: -2.461 ms

Remote clock offset: 0.489 ms

# Below is generated by plot.py at 2019-04-23 21:04:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 10.988 ms

Loss rate: 0.00%

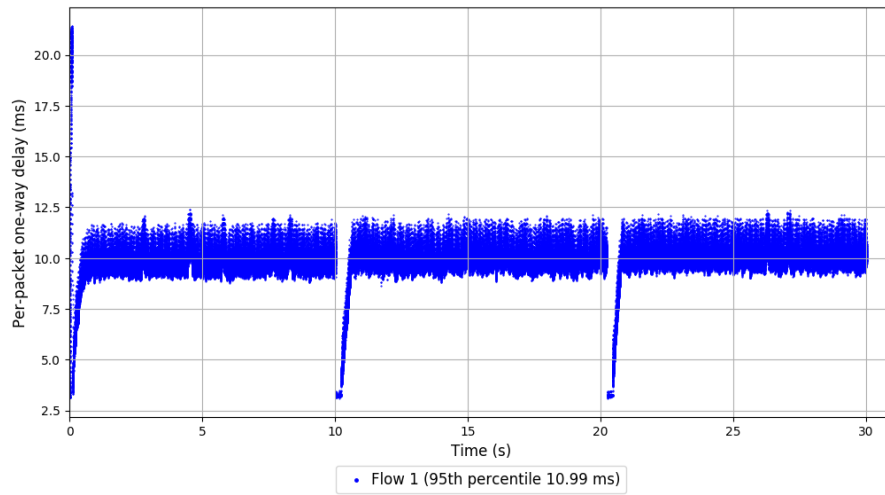
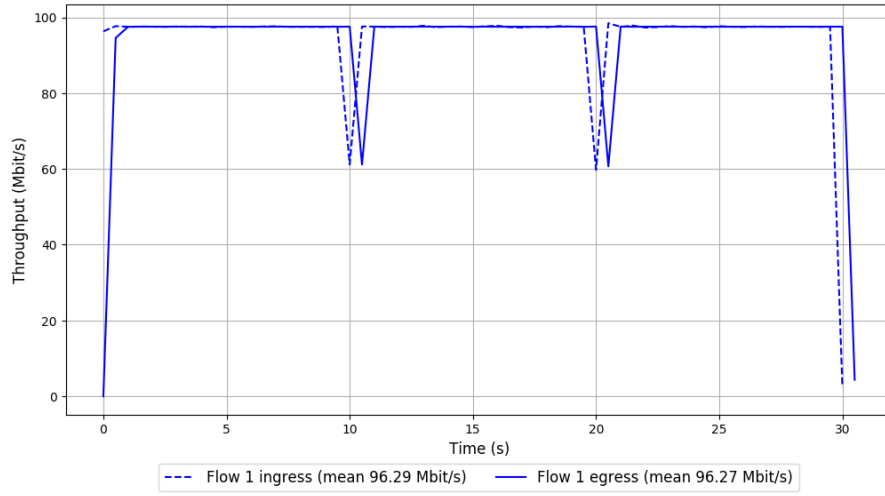
-- Flow 1:

Average throughput: 96.27 Mbit/s

95th percentile per-packet one-way delay: 10.988 ms

Loss rate: 0.00%

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





Run 5: Statistics of TCP BBR

Start at: 2019-04-23 20:57:10

End at: 2019-04-23 20:57:40

Local clock offset: -0.922 ms

Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2019-04-23 21:04:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 10.112 ms

Loss rate: 0.00%

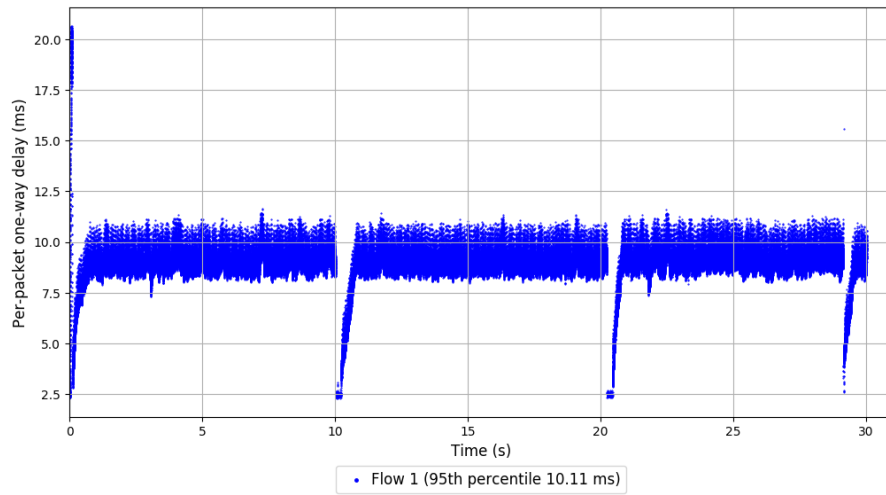
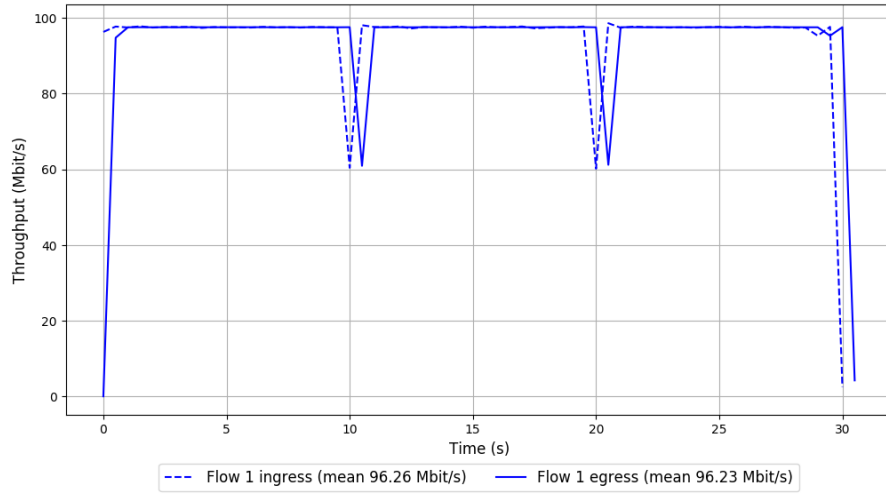
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 10.112 ms

Loss rate: 0.00%

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



Run 1: Statistics of Copa

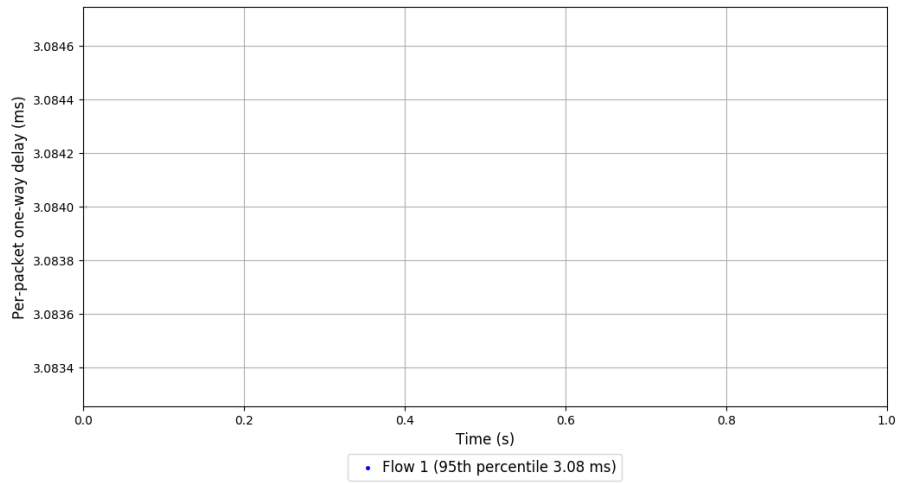
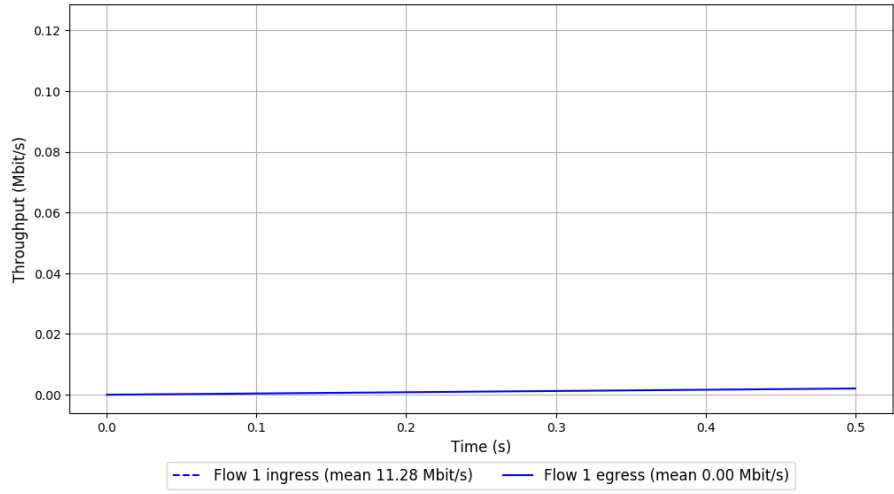
Start at: 2019-04-23 19:20:04

End at: 2019-04-23 19:20:34

Local clock offset: -3.854 ms

Remote clock offset: -0.074 ms

### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

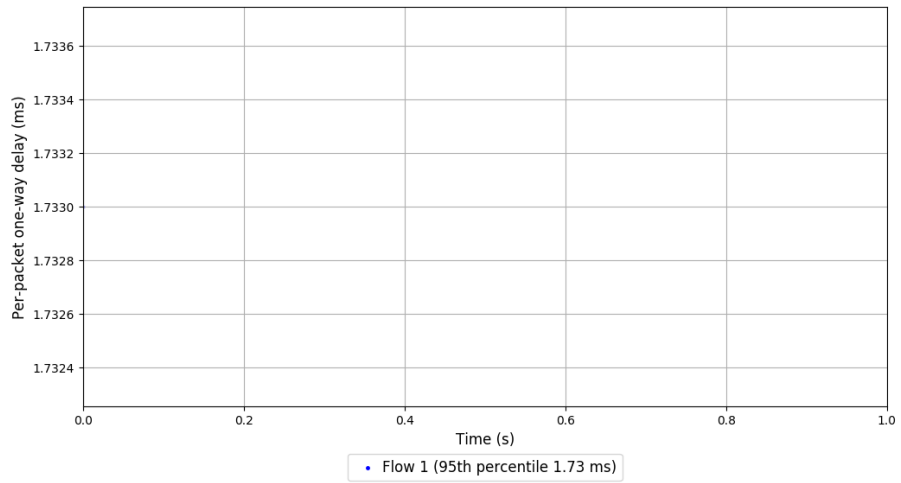
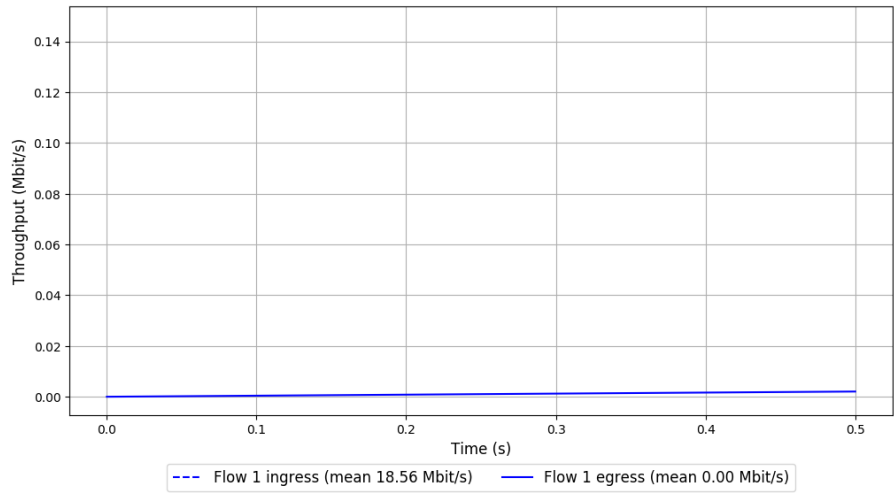
Start at: 2019-04-23 19:43:33

End at: 2019-04-23 19:44:03

Local clock offset: -4.156 ms

Remote clock offset: 0.141 ms

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

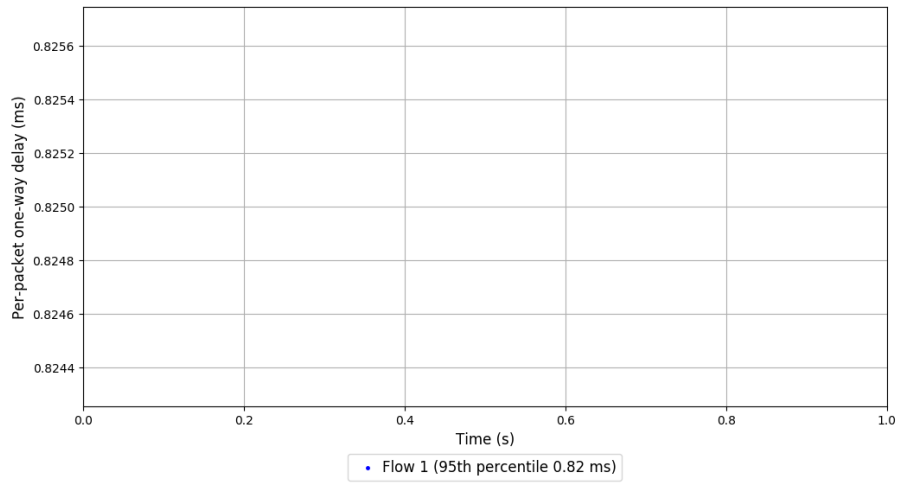
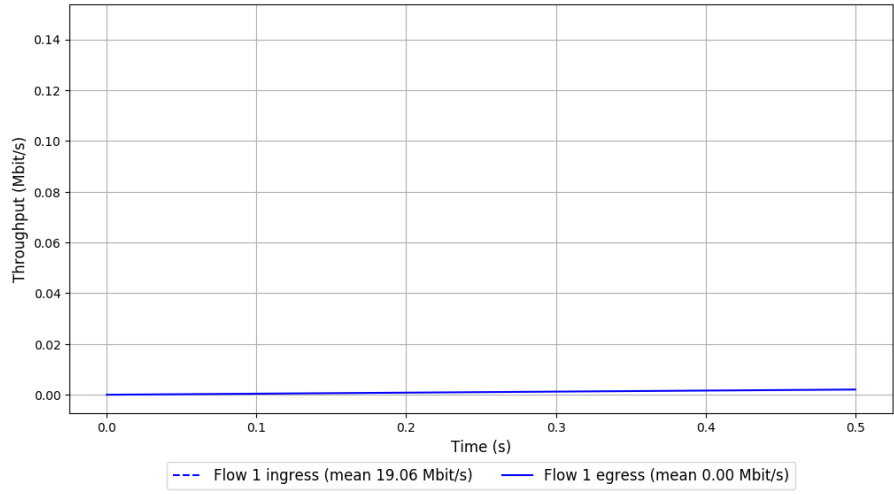
Start at: 2019-04-23 20:07:00

End at: 2019-04-23 20:07:30

Local clock offset: -2.29 ms

Remote clock offset: 0.188 ms

### Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

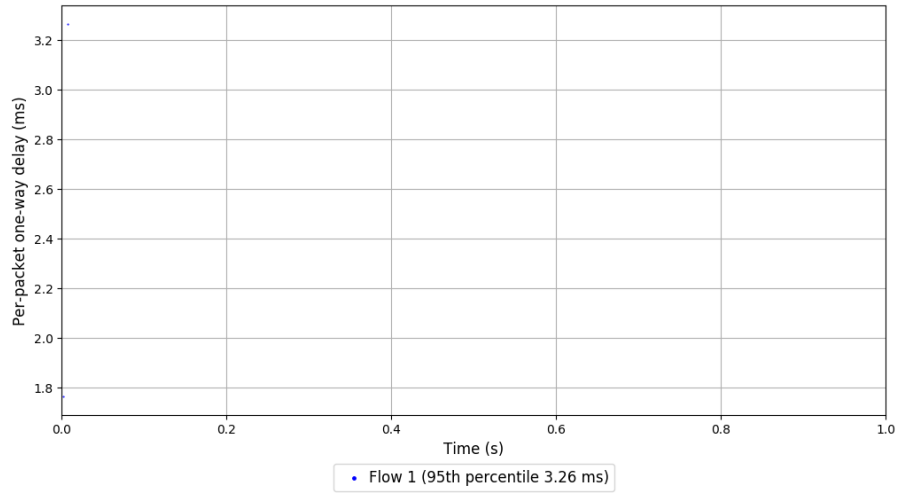
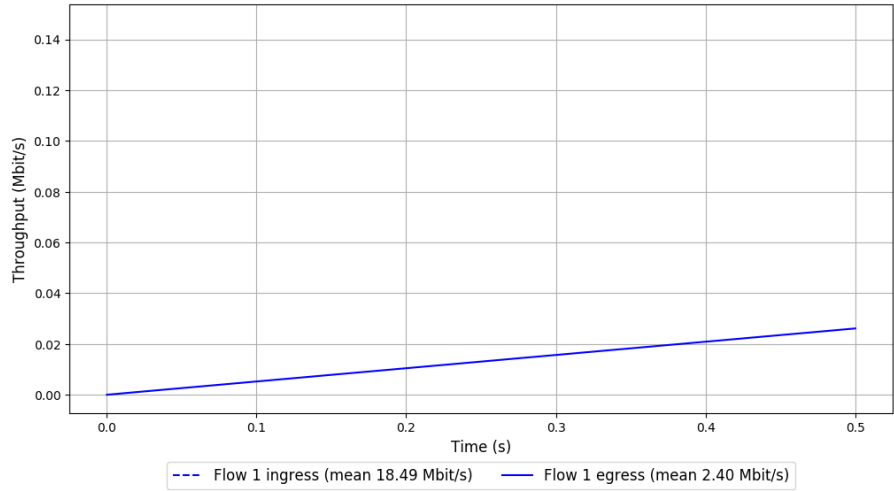
Start at: 2019-04-23 20:30:26

End at: 2019-04-23 20:30:56

Local clock offset: -2.528 ms

Remote clock offset: 0.476 ms

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

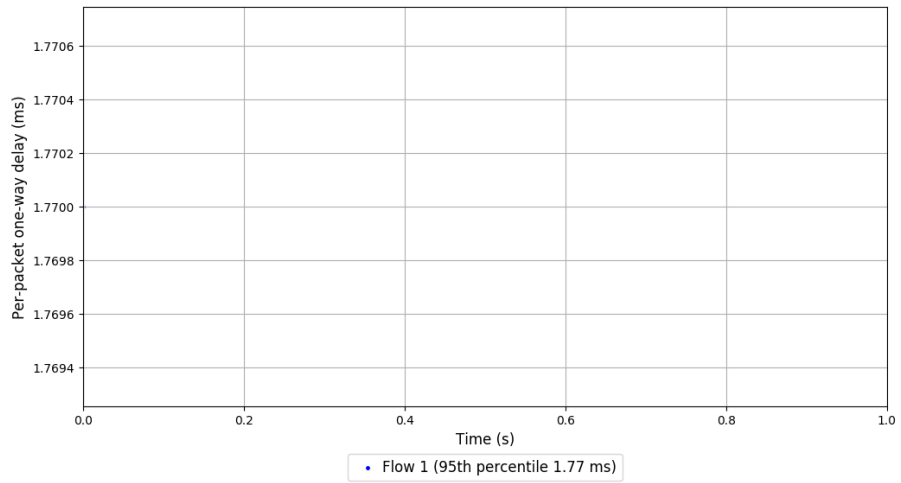
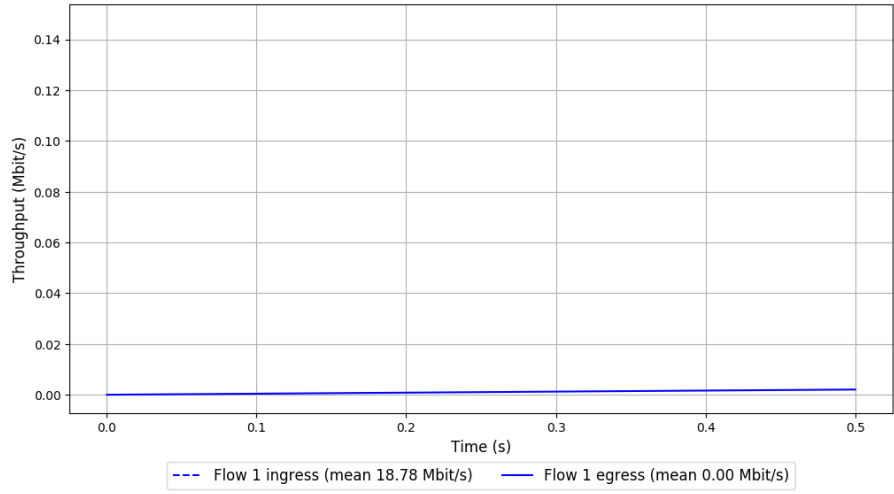
Start at: 2019-04-23 20:53:53

End at: 2019-04-23 20:54:23

Local clock offset: -1.873 ms

Remote clock offset: 0.655 ms

### Run 5: Report of Copa — Data Link

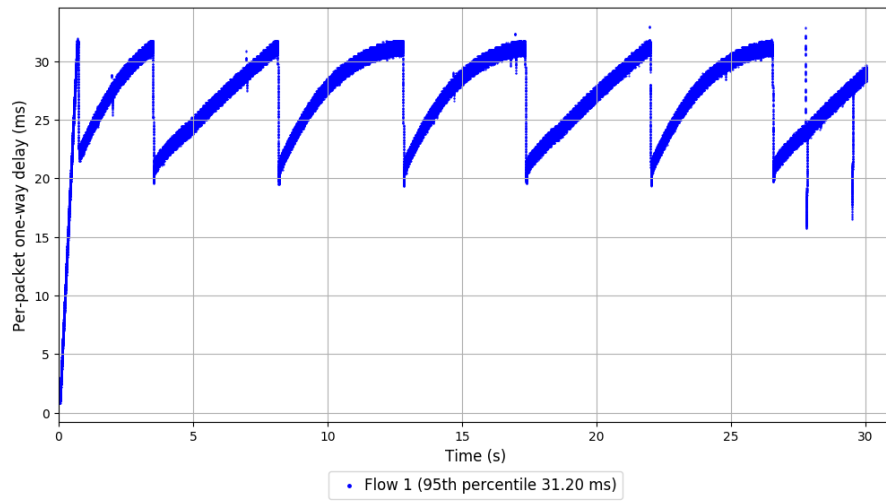
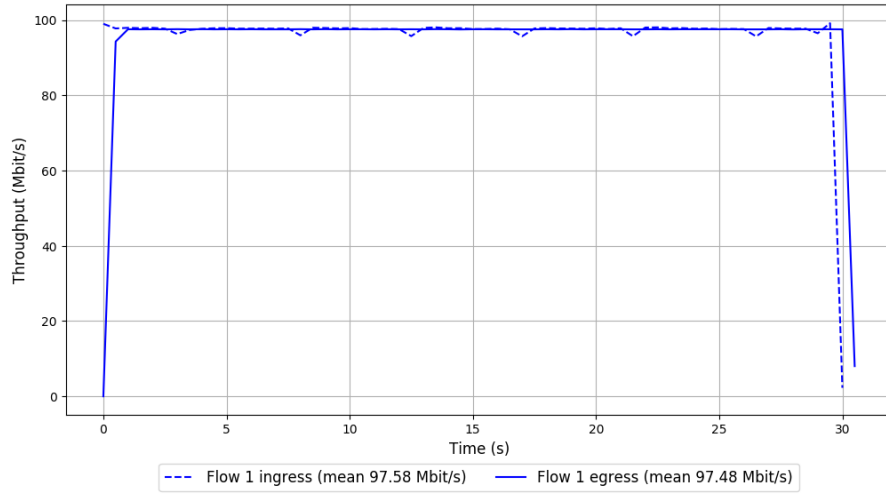


Run 1: Statistics of TCP Cubic

Start at: 2019-04-23 19:07:43  
End at: 2019-04-23 19:08:13  
Local clock offset: -2.88 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-04-23 21:04:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 31.197 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 31.197 ms  
Loss rate: 0.01%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-04-23 19:31:08

End at: 2019-04-23 19:31:38

Local clock offset: -3.327 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2019-04-23 21:04:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.228 ms

Loss rate: 0.01%

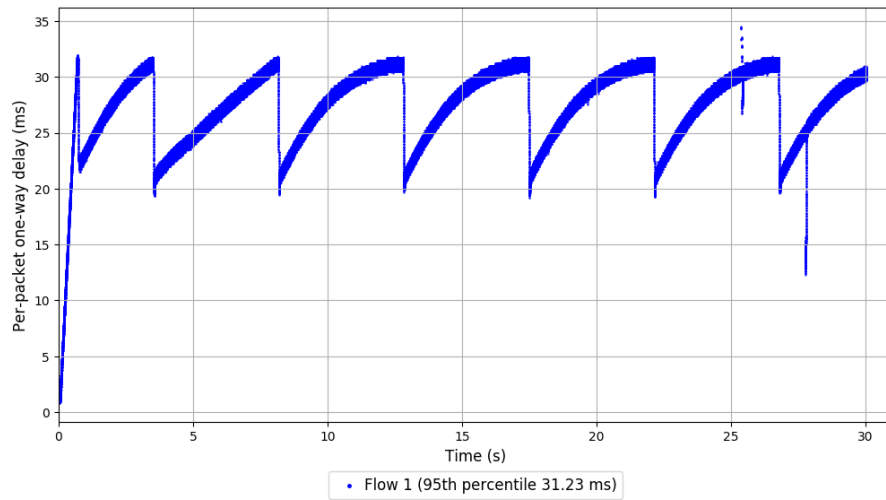
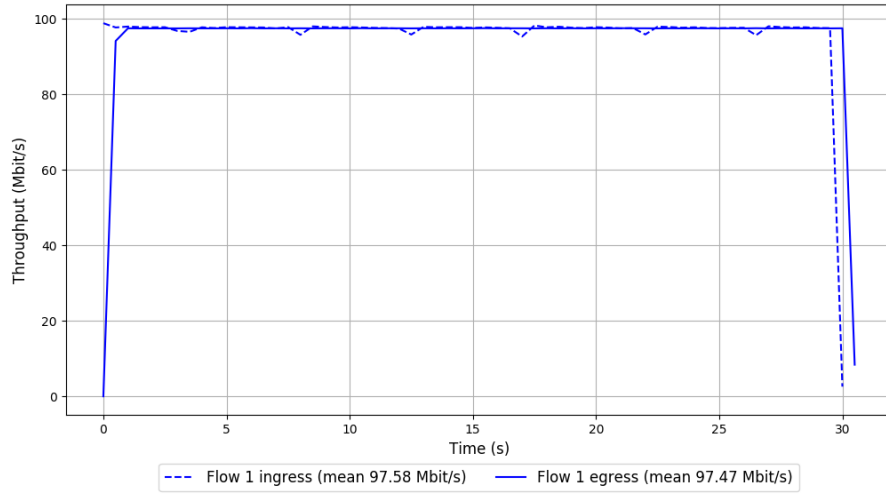
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.228 ms

Loss rate: 0.01%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-04-23 19:54:37

End at: 2019-04-23 19:55:07

Local clock offset: -3.455 ms

Remote clock offset: 0.173 ms

# Below is generated by plot.py at 2019-04-23 21:04:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.973 ms

Loss rate: 0.01%

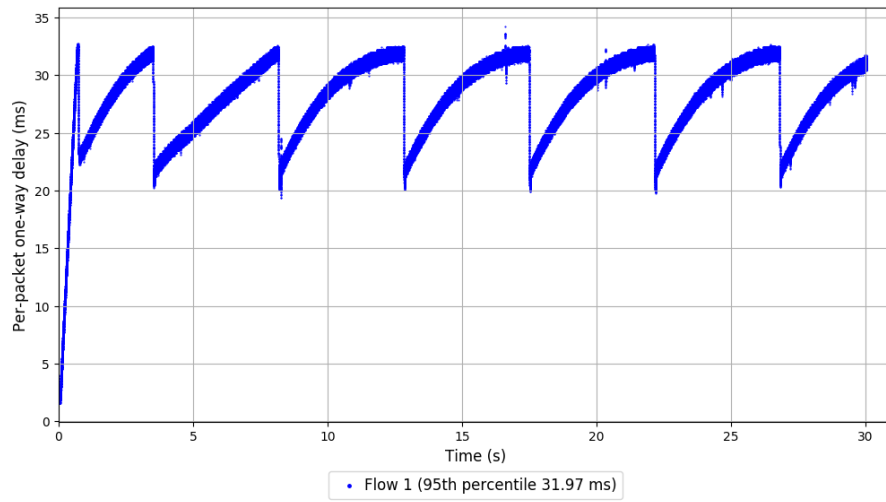
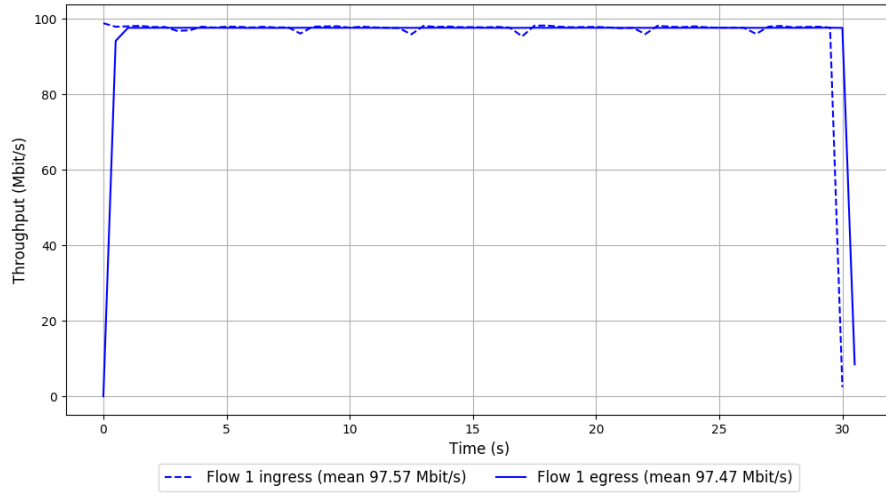
-- Flow 1:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 31.973 ms

Loss rate: 0.01%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-04-23 20:18:04

End at: 2019-04-23 20:18:34

Local clock offset: -2.769 ms

Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2019-04-23 21:06:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 31.930 ms

Loss rate: 0.01%

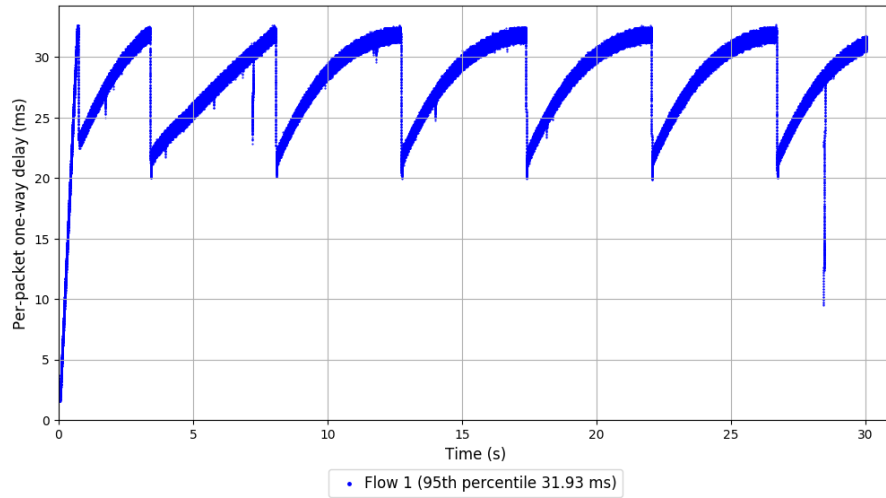
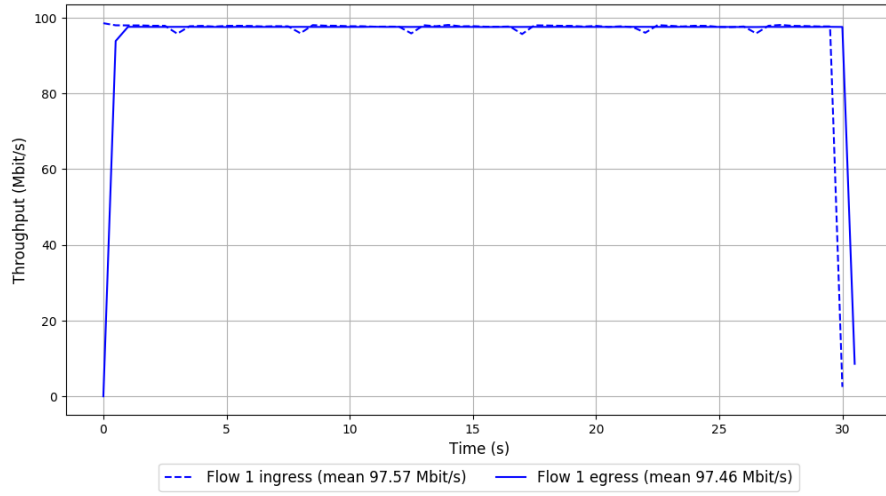
-- Flow 1:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 31.930 ms

Loss rate: 0.01%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-04-23 20:41:30

End at: 2019-04-23 20:42:00

Local clock offset: -2.329 ms

Remote clock offset: 0.489 ms

# Below is generated by plot.py at 2019-04-23 21:06:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 33.442 ms

Loss rate: 0.01%

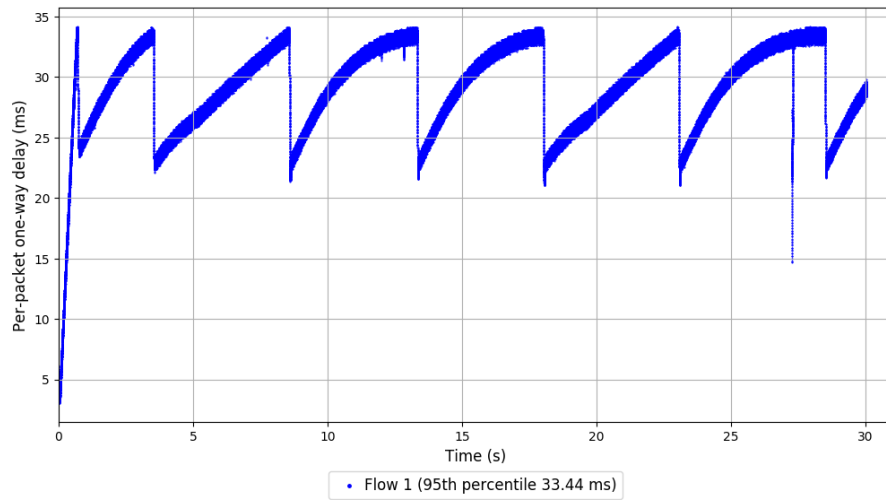
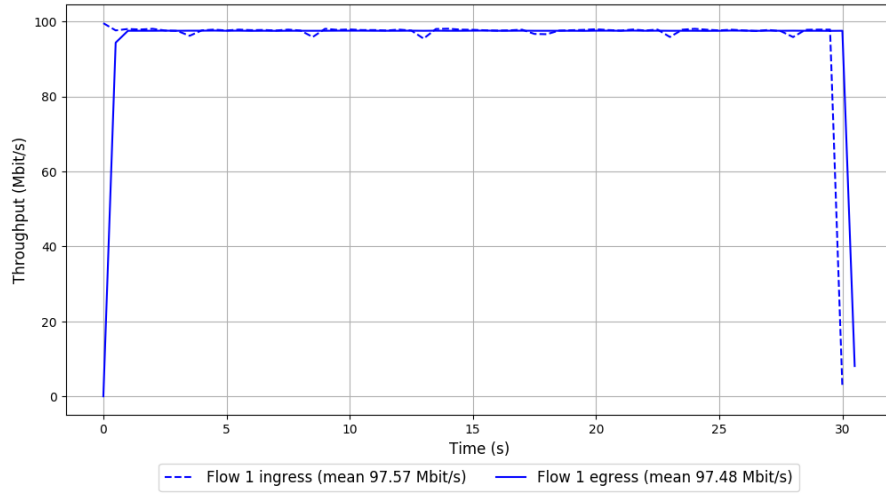
-- Flow 1:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 33.442 ms

Loss rate: 0.01%

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

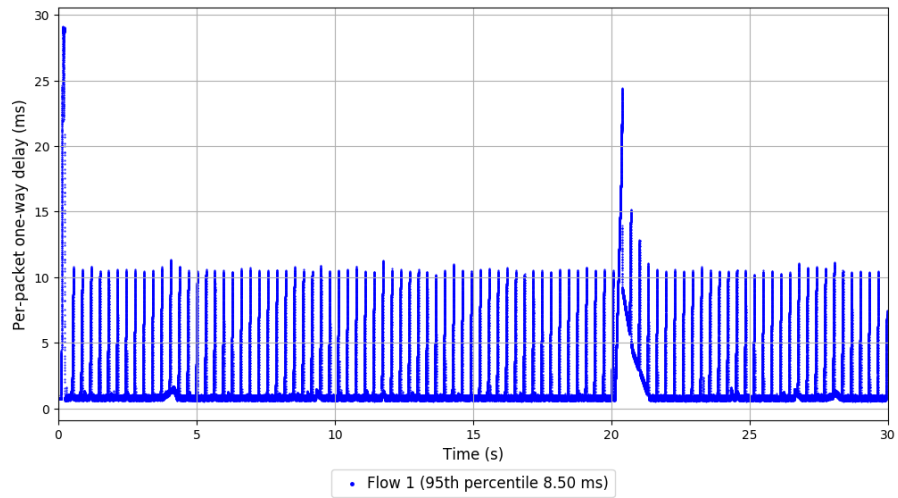
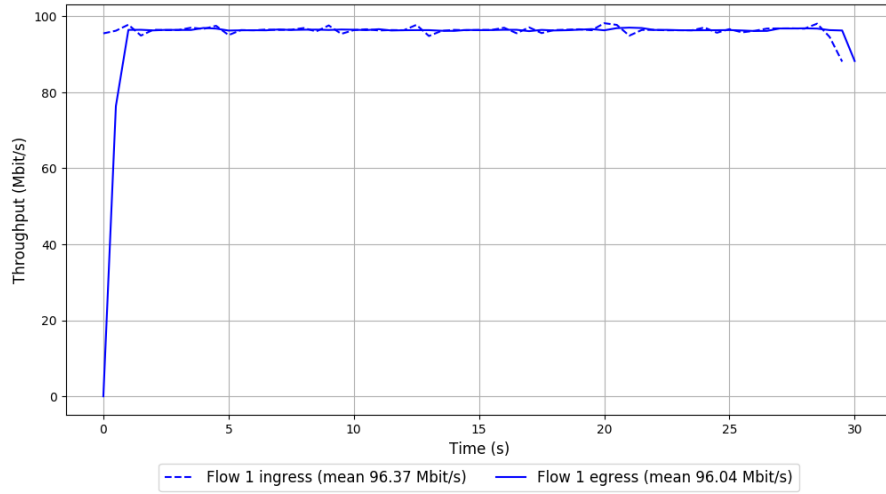


Run 1: Statistics of FillP

Start at: 2019-04-23 19:18:57  
End at: 2019-04-23 19:19:27  
Local clock offset: -3.059 ms  
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-04-23 21:06:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.04 Mbit/s  
95th percentile per-packet one-way delay: 8.503 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 96.04 Mbit/s  
95th percentile per-packet one-way delay: 8.503 ms  
Loss rate: 0.32%

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





Run 2: Statistics of FillP

Start at: 2019-04-23 19:42:26

End at: 2019-04-23 19:42:56

Local clock offset: -4.167 ms

Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-04-23 21:06:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 12.651 ms

Loss rate: 0.24%

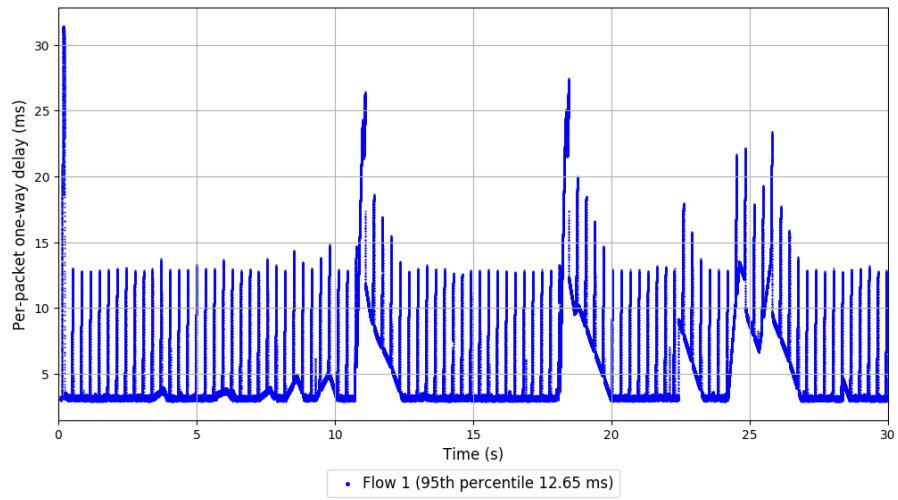
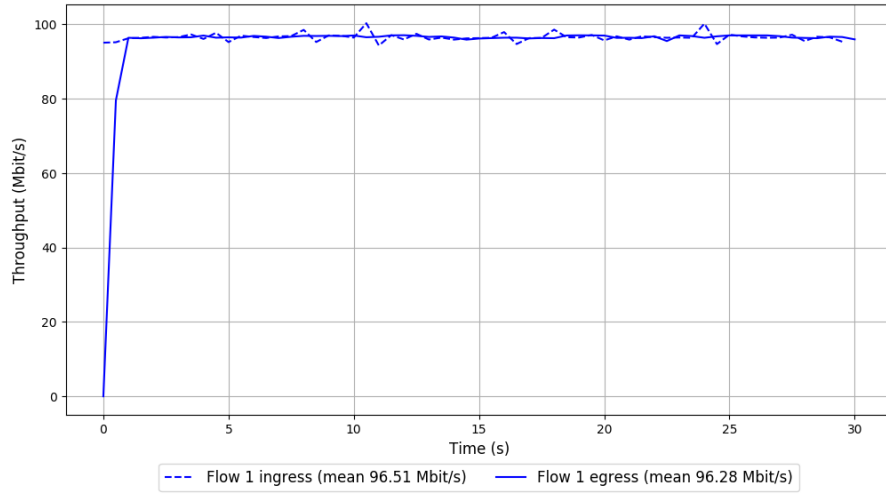
-- Flow 1:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 12.651 ms

Loss rate: 0.24%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-04-23 20:05:53

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

Local clock offset: -3.018 ms

Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2019-04-23 21:06:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 11.928 ms

Loss rate: 0.24%

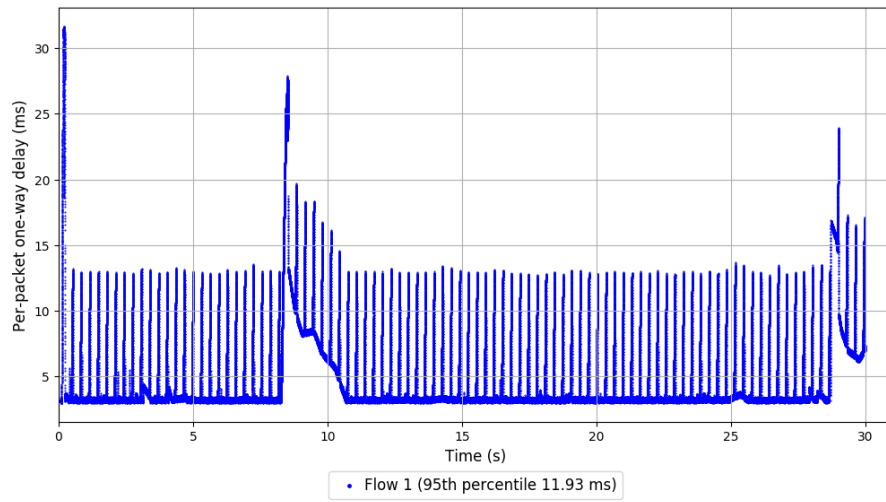
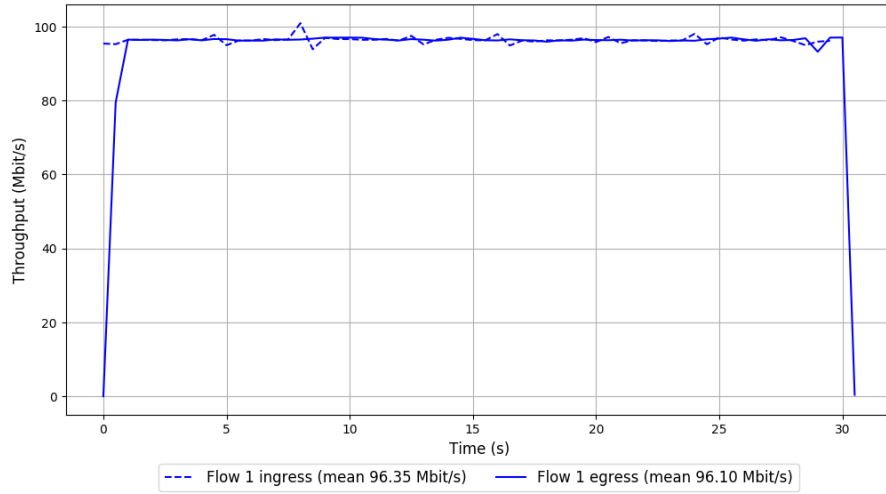
-- Flow 1:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 11.928 ms

Loss rate: 0.24%

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



Run 4: Statistics of FillP

Start at: 2019-04-23 20:29:19

End at: 2019-04-23 20:29:49

Local clock offset: -1.777 ms

Remote clock offset: 0.327 ms

# Below is generated by plot.py at 2019-04-23 21:06:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 10.091 ms

Loss rate: 0.25%

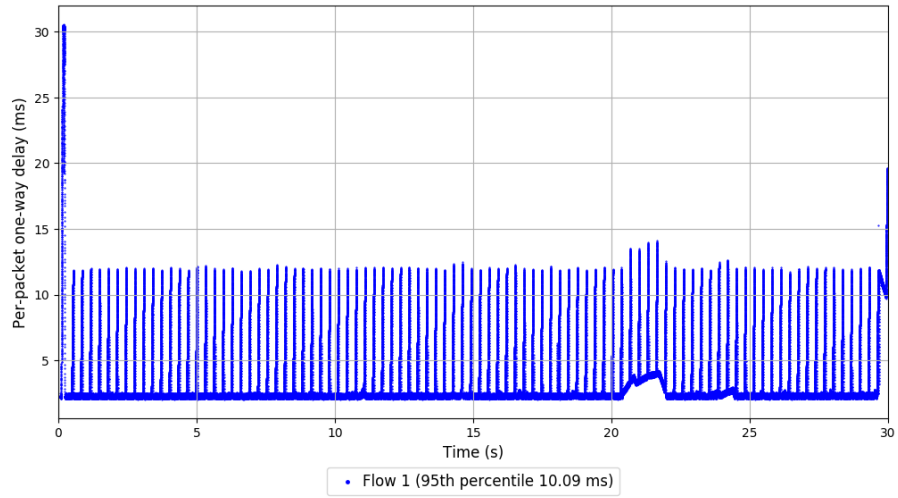
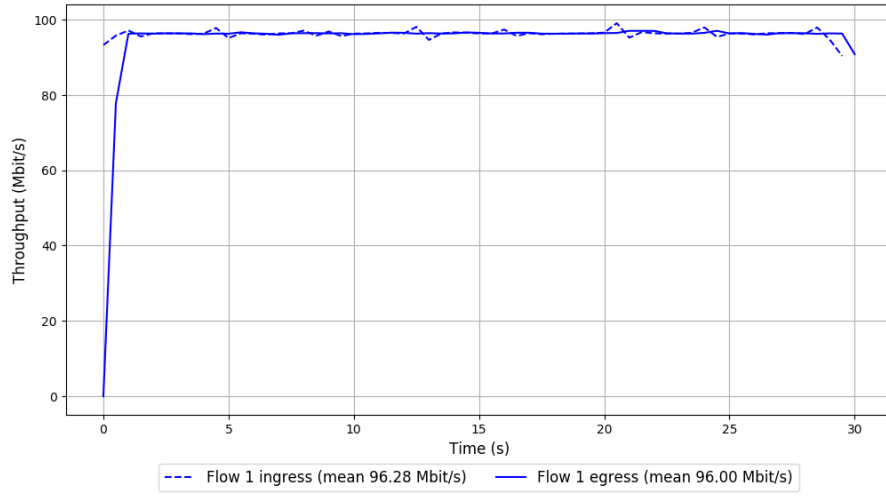
-- Flow 1:

Average throughput: 96.00 Mbit/s

95th percentile per-packet one-way delay: 10.091 ms

Loss rate: 0.25%

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



Run 5: Statistics of FillP

Start at: 2019-04-23 20:52:45

End at: 2019-04-23 20:53:15

Local clock offset: -1.884 ms

Remote clock offset: 0.677 ms

# Below is generated by plot.py at 2019-04-23 21:06:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 9.993 ms

Loss rate: 0.33%

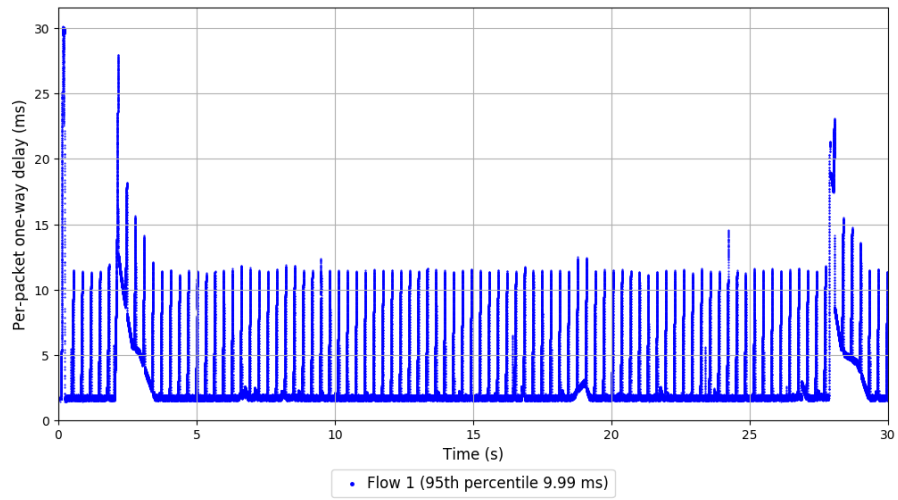
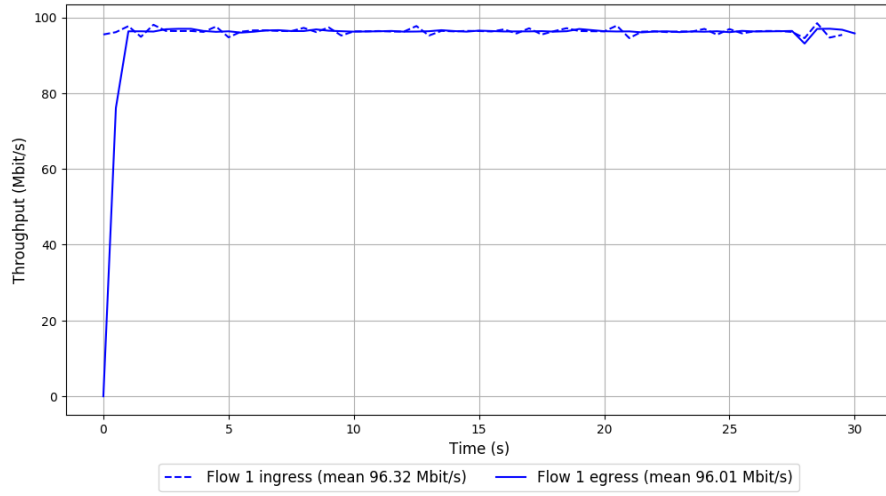
-- Flow 1:

Average throughput: 96.01 Mbit/s

95th percentile per-packet one-way delay: 9.993 ms

Loss rate: 0.33%

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



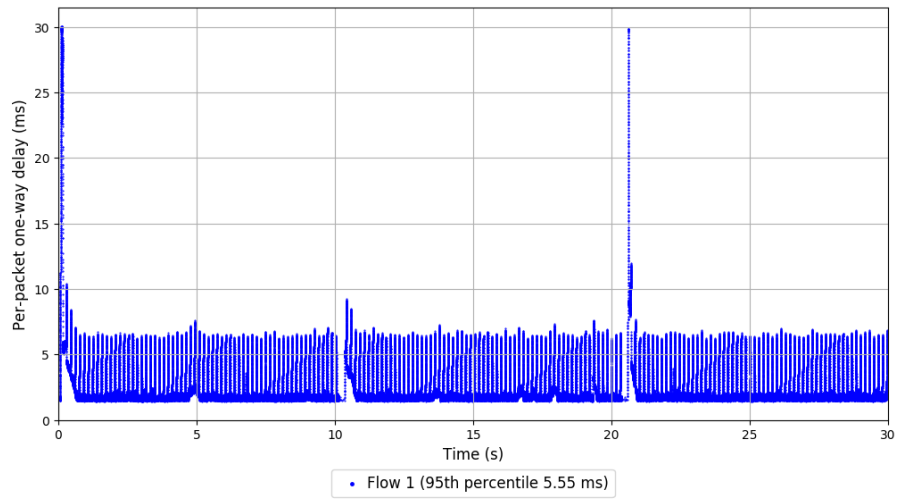
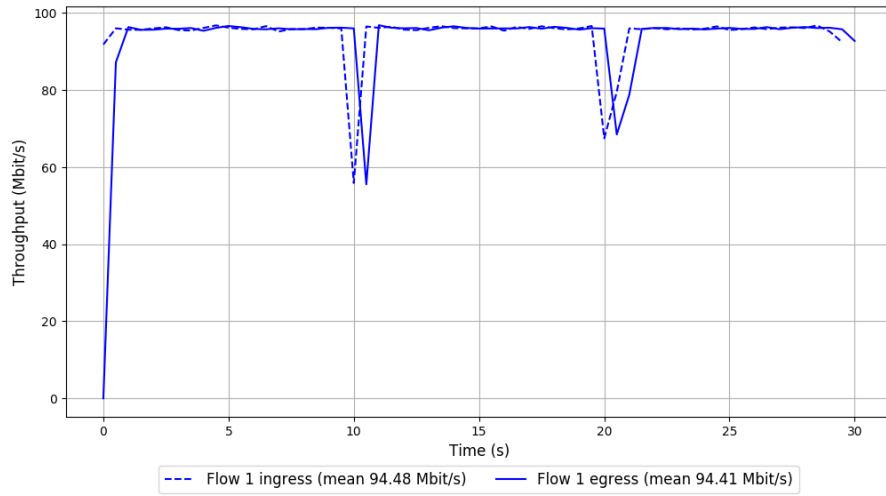


Run 1: Statistics of FillP-Sheep

Start at: 2019-04-23 19:12:14  
End at: 2019-04-23 19:12:44  
Local clock offset: -3.667 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-04-23 21:06:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.41 Mbit/s  
95th percentile per-packet one-way delay: 5.546 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 94.41 Mbit/s  
95th percentile per-packet one-way delay: 5.546 ms  
Loss rate: 0.07%

Run 1: Report of FillP-Sheep — Data Link

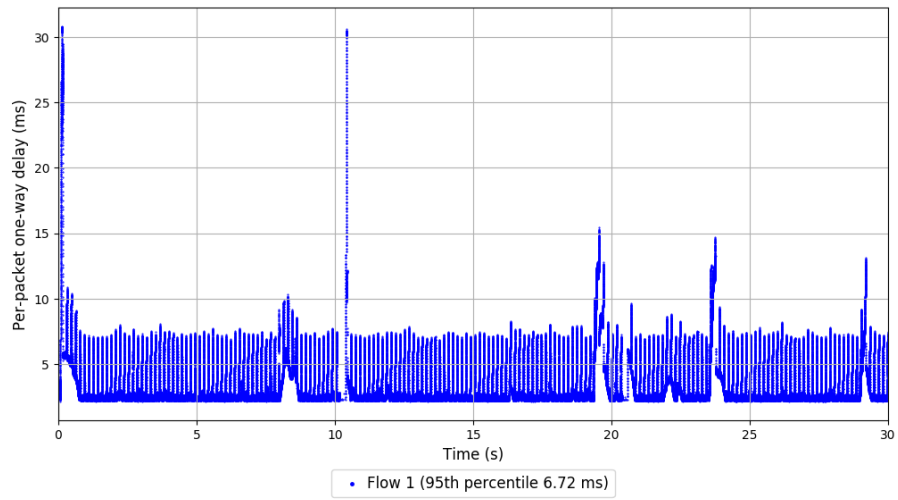
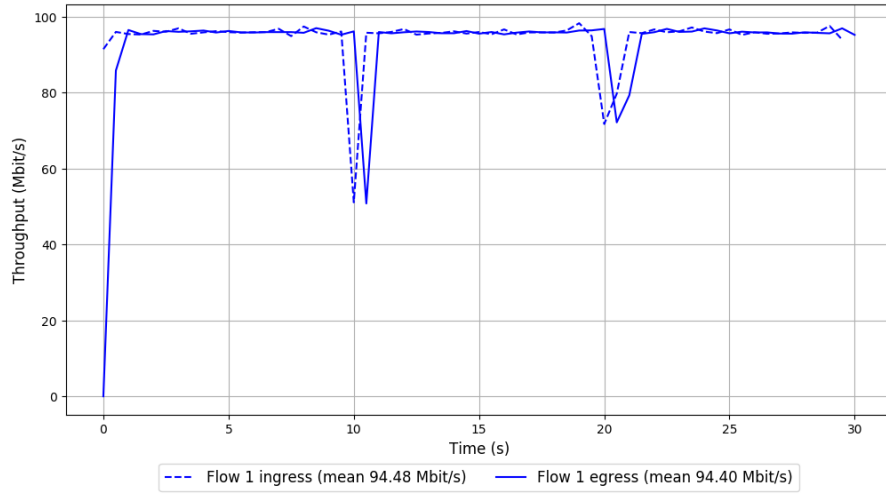


Run 2: Statistics of FillP-Sheep

Start at: 2019-04-23 19:35:42  
End at: 2019-04-23 19:36:12  
Local clock offset: -3.414 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-04-23 21:07:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.40 Mbit/s  
95th percentile per-packet one-way delay: 6.720 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 94.40 Mbit/s  
95th percentile per-packet one-way delay: 6.720 ms  
Loss rate: 0.09%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-04-23 19:59:08

End at: 2019-04-23 19:59:38

Local clock offset: -2.45 ms

Remote clock offset: 0.178 ms

# Below is generated by plot.py at 2019-04-23 21:07:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 5.222 ms

Loss rate: 0.07%

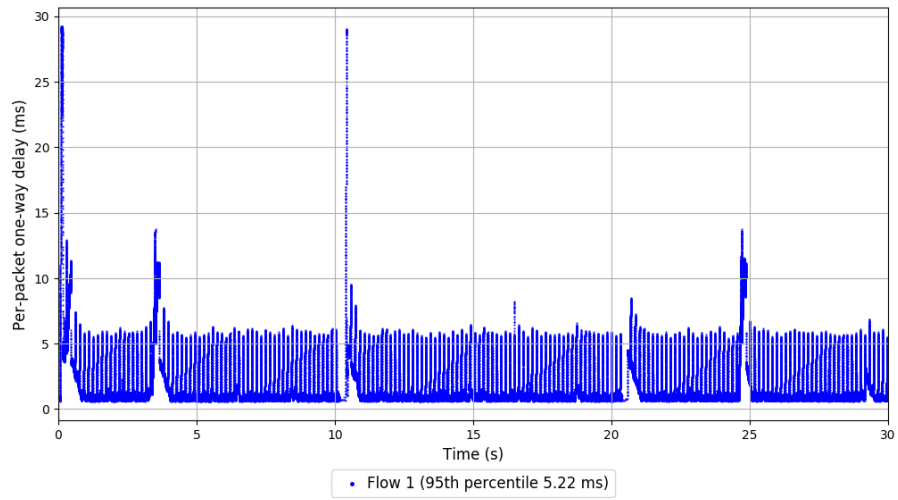
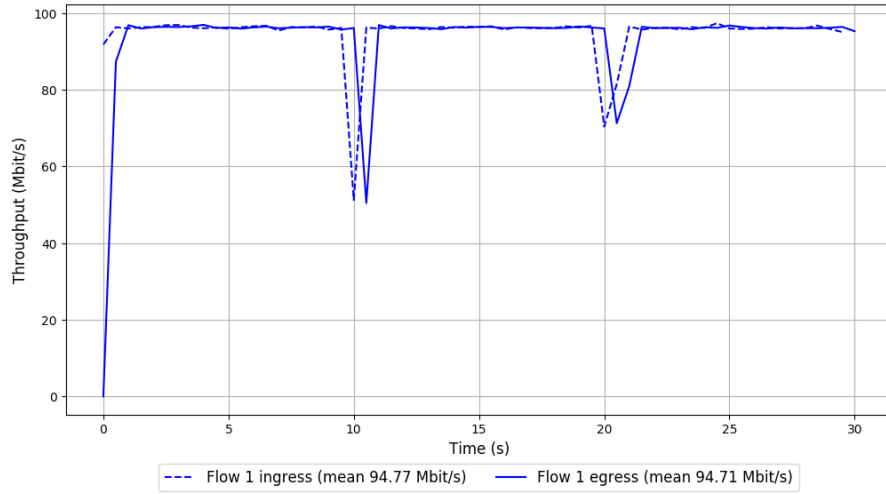
-- Flow 1:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 5.222 ms

Loss rate: 0.07%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-04-23 20:22:35

End at: 2019-04-23 20:23:05

Local clock offset: -2.734 ms

Remote clock offset: 0.431 ms

# Below is generated by plot.py at 2019-04-23 21:07:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 5.630 ms

Loss rate: 0.07%

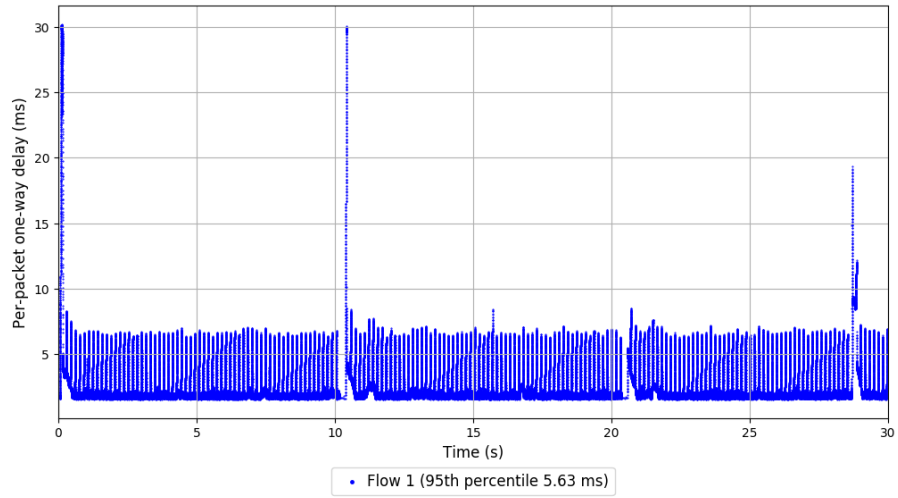
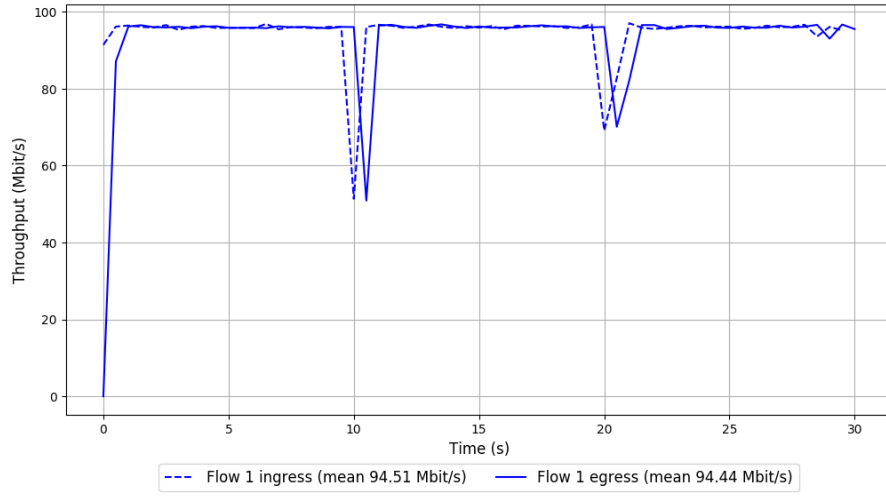
-- Flow 1:

Average throughput: 94.44 Mbit/s

95th percentile per-packet one-way delay: 5.630 ms

Loss rate: 0.07%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-04-23 20:46:00

End at: 2019-04-23 20:46:31

Local clock offset: -2.23 ms

Remote clock offset: 0.586 ms

# Below is generated by plot.py at 2019-04-23 21:07:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 7.484 ms

Loss rate: 0.08%

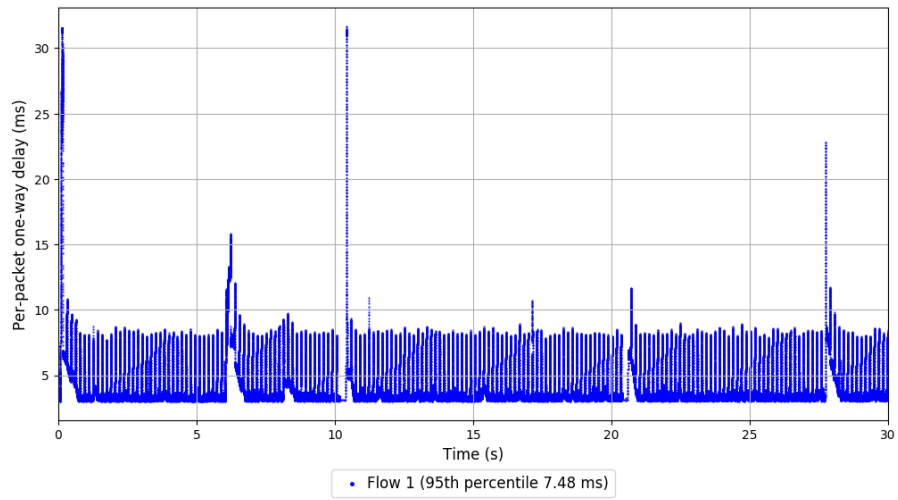
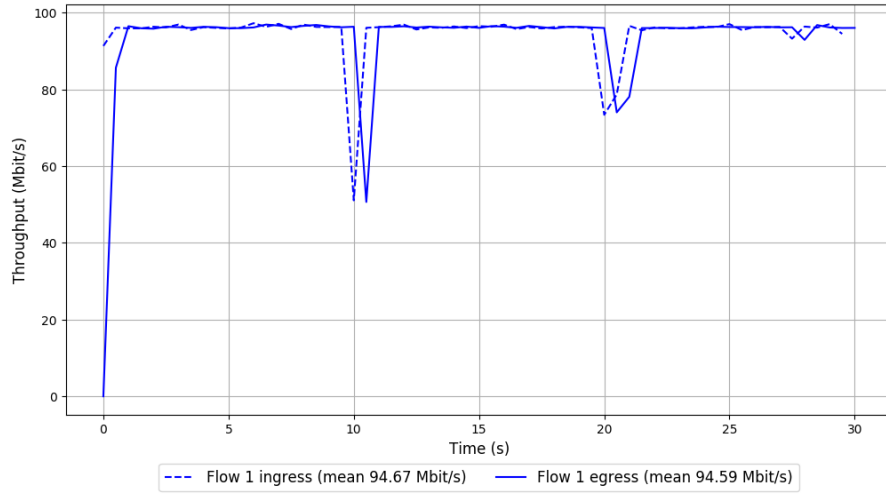
-- Flow 1:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 7.484 ms

Loss rate: 0.08%

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



Run 1: Statistics of Indigo

Start at: 2019-04-23 19:14:31  
End at: 2019-04-23 19:15:01  
Local clock offset: -2.864 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-04-23 21:07:36

# Datalink statistics

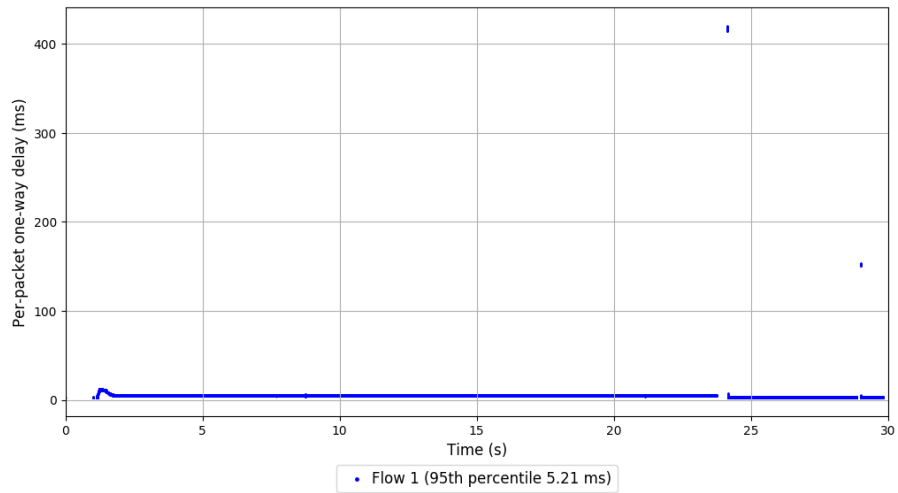
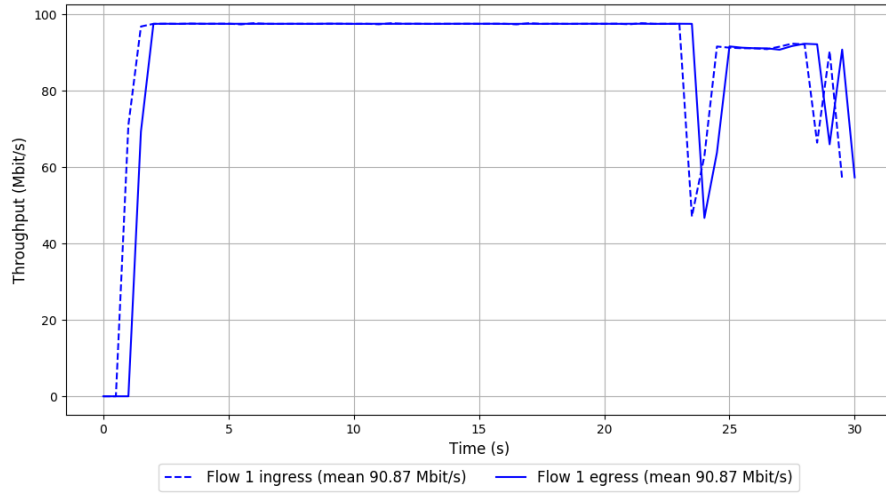
-- Total of 1 flow:

Average throughput: 90.87 Mbit/s  
95th percentile per-packet one-way delay: 5.210 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.87 Mbit/s  
95th percentile per-packet one-way delay: 5.210 ms  
Loss rate: 0.00%

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



Run 2: Statistics of Indigo

Start at: 2019-04-23 19:37:59  
End at: 2019-04-23 19:38:29  
Local clock offset: -3.435 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-04-23 21:07:36

# Datalink statistics

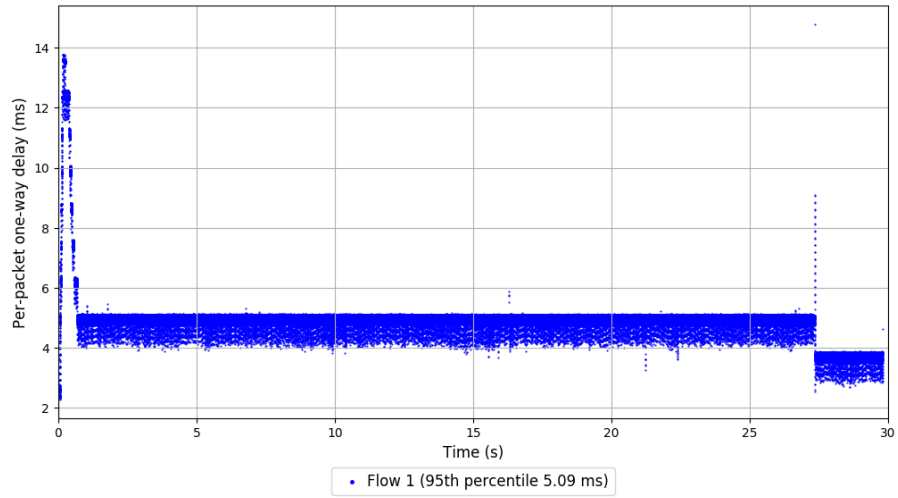
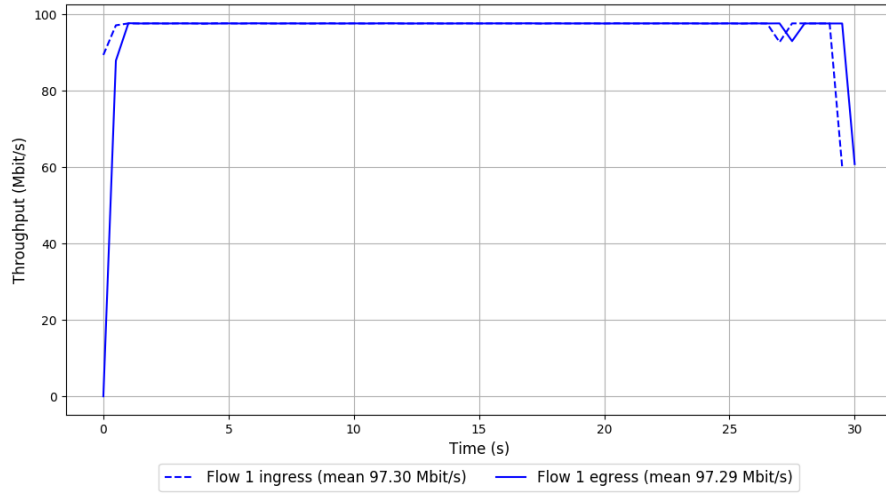
-- Total of 1 flow:

Average throughput: 97.29 Mbit/s  
95th percentile per-packet one-way delay: 5.090 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 97.29 Mbit/s  
95th percentile per-packet one-way delay: 5.090 ms  
Loss rate: 0.00%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-04-23 20:01:25

End at: 2019-04-23 20:01:55

Local clock offset: -3.166 ms

Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2019-04-23 21:07:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.36 Mbit/s

95th percentile per-packet one-way delay: 4.653 ms

Loss rate: 0.00%

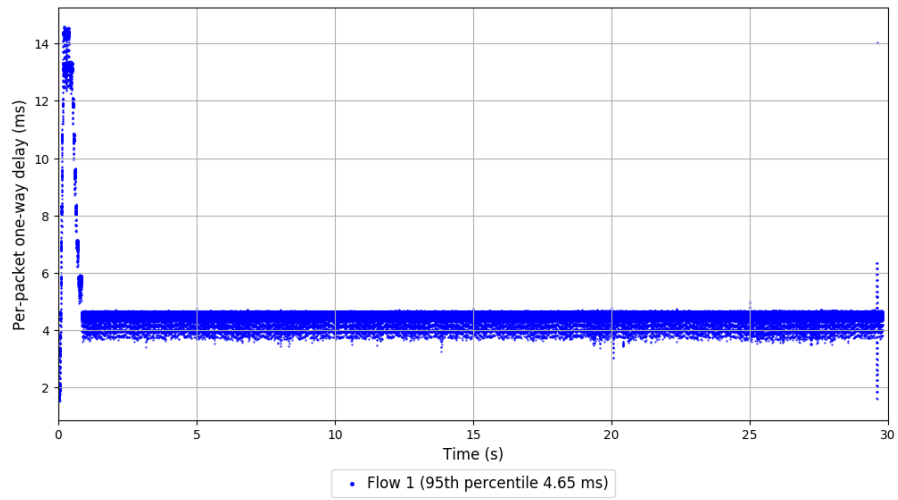
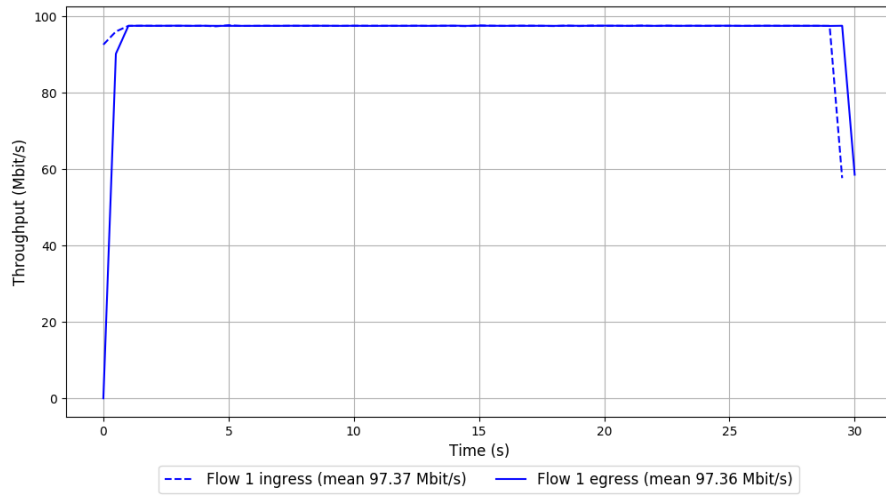
-- Flow 1:

Average throughput: 97.36 Mbit/s

95th percentile per-packet one-way delay: 4.653 ms

Loss rate: 0.00%

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





Run 4: Statistics of Indigo

Start at: 2019-04-23 20:24:52

End at: 2019-04-23 20:25:22

Local clock offset: -1.838 ms

Remote clock offset: 0.44 ms

# Below is generated by plot.py at 2019-04-23 21:07:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 3.896 ms

Loss rate: 0.00%

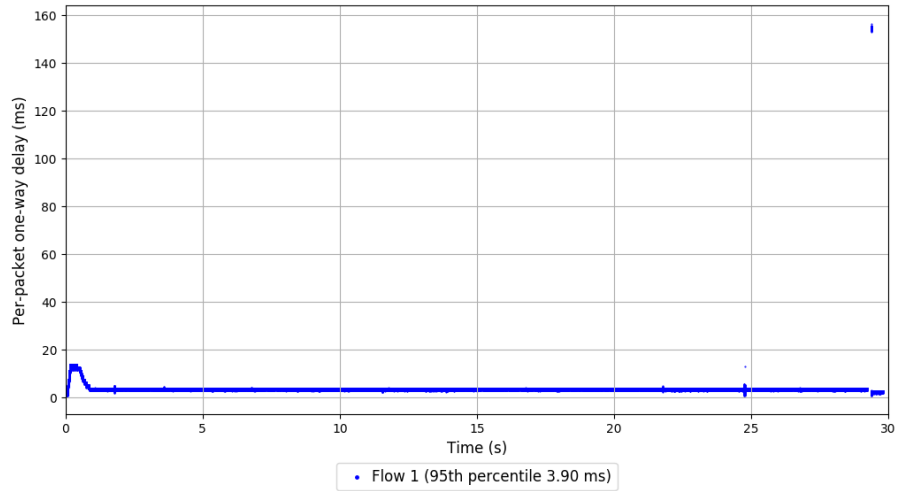
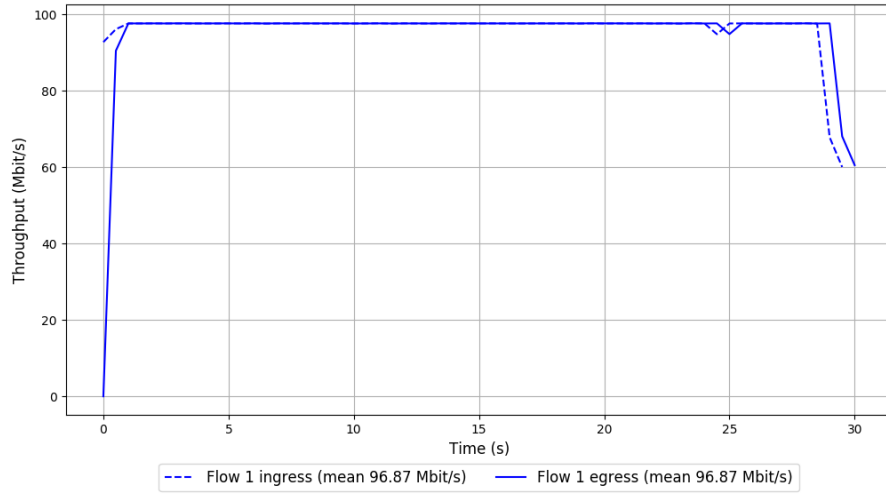
-- Flow 1:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 3.896 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo

Start at: 2019-04-23 20:48:17

End at: 2019-04-23 20:48:47

Local clock offset: -2.08 ms

Remote clock offset: 0.544 ms

# Below is generated by plot.py at 2019-04-23 21:08:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 4.641 ms

Loss rate: 0.00%

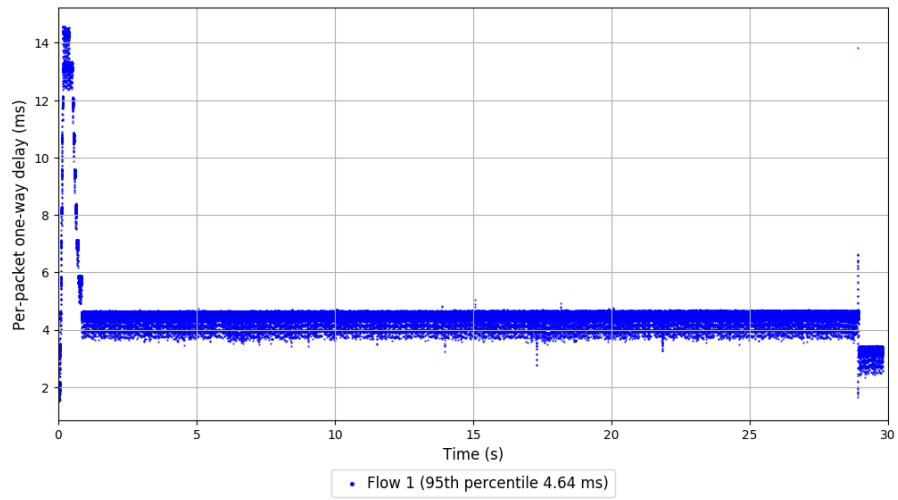
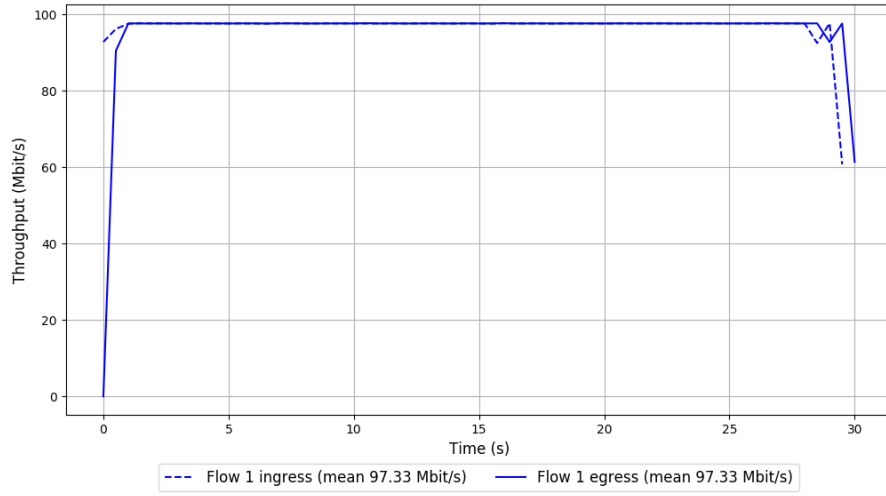
-- Flow 1:

Average throughput: 97.33 Mbit/s

95th percentile per-packet one-way delay: 4.641 ms

Loss rate: 0.00%

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

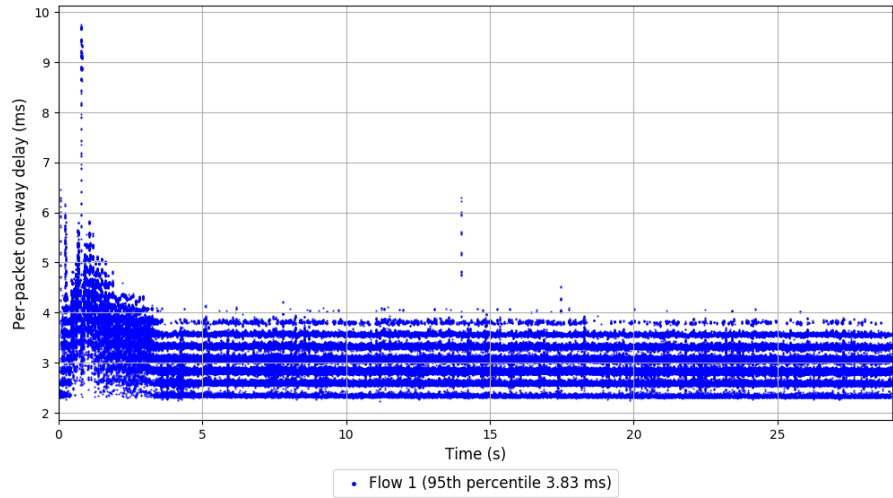
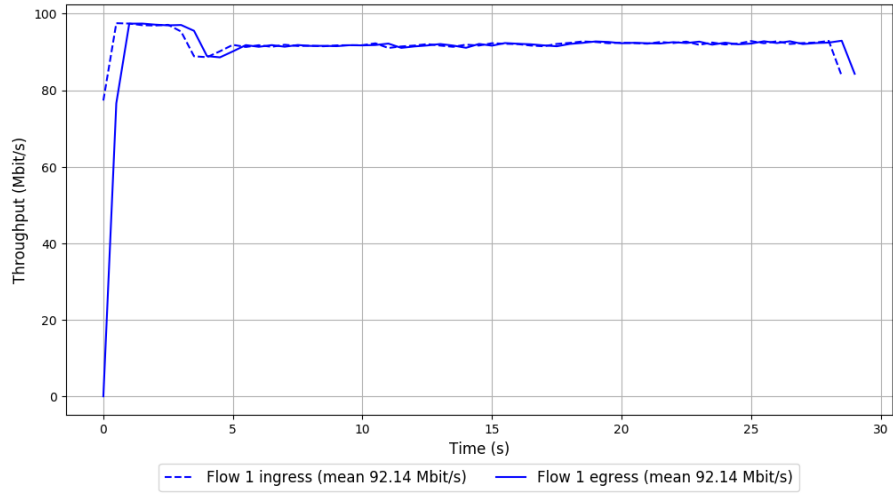


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-04-23 19:26:43  
End at: 2019-04-23 19:27:13  
Local clock offset: -3.267 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-04-23 21:08:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.14 Mbit/s  
95th percentile per-packet one-way delay: 3.828 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 92.14 Mbit/s  
95th percentile per-packet one-way delay: 3.828 ms  
Loss rate: 0.00%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-04-23 19:50:12

End at: 2019-04-23 19:50:42

Local clock offset: -3.715 ms

Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2019-04-23 21:08:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 4.062 ms

Loss rate: 0.00%

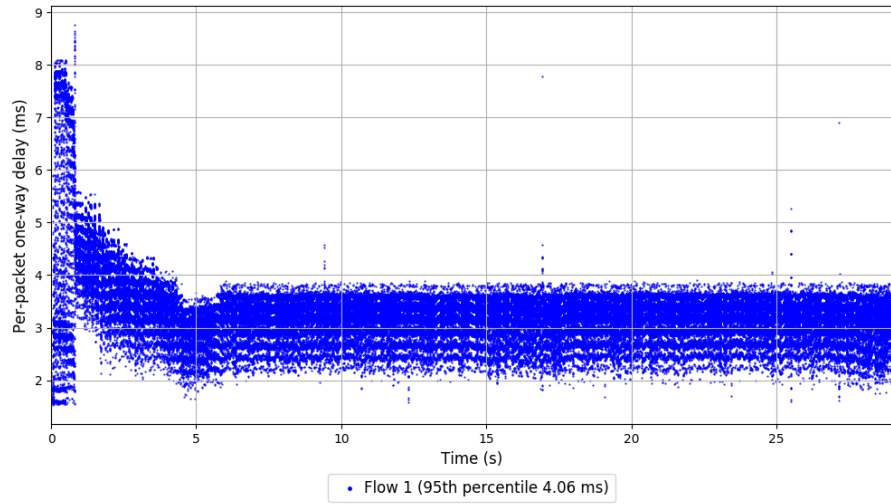
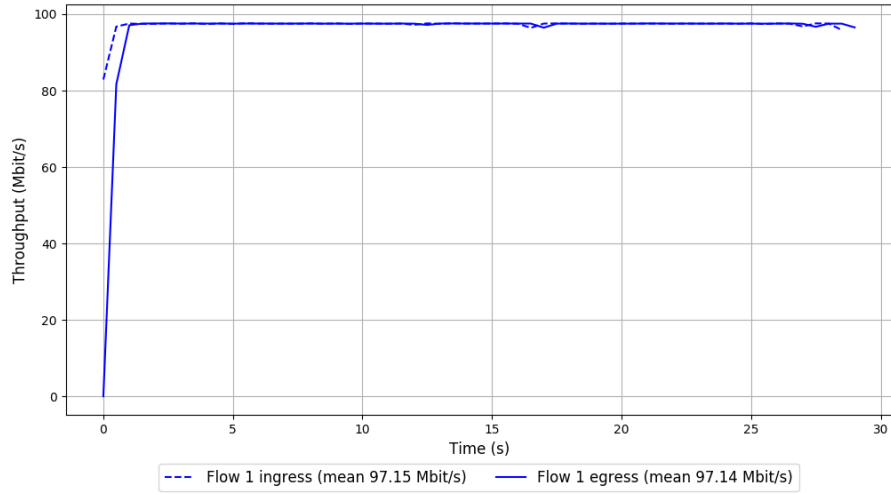
-- Flow 1:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 4.062 ms

Loss rate: 0.00%

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





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-04-23 20:13:38

End at: 2019-04-23 20:14:08

Local clock offset: -2.082 ms

Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2019-04-23 21:08:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 2.922 ms

Loss rate: 0.00%

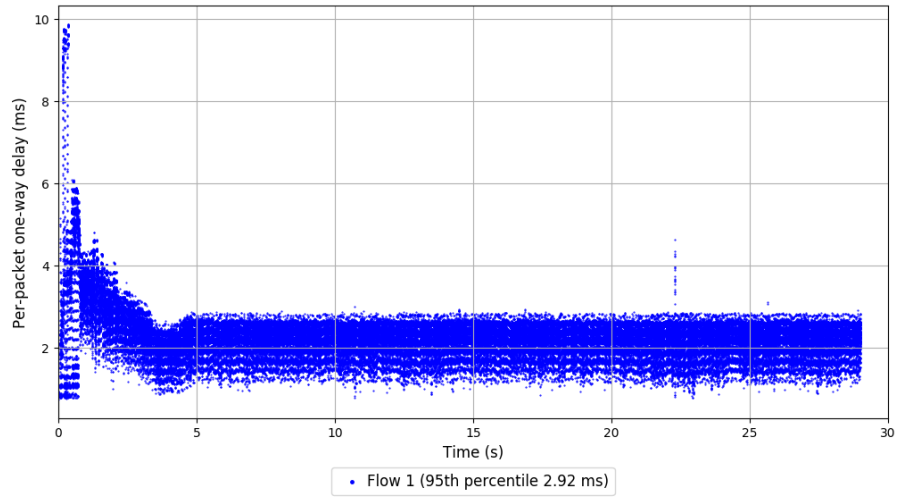
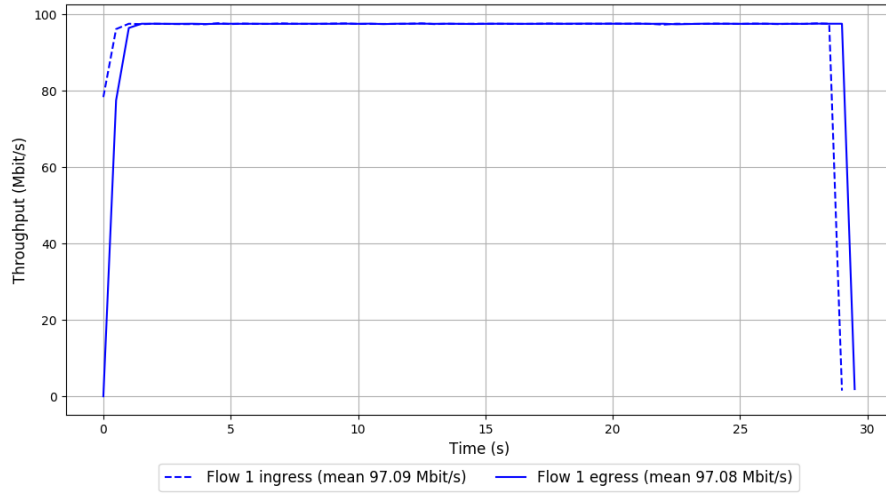
-- Flow 1:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 2.922 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-04-23 20:37:05

End at: 2019-04-23 20:37:35

Local clock offset: -1.692 ms

Remote clock offset: 0.503 ms

# Below is generated by plot.py at 2019-04-23 21:08:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 3.668 ms

Loss rate: 0.00%

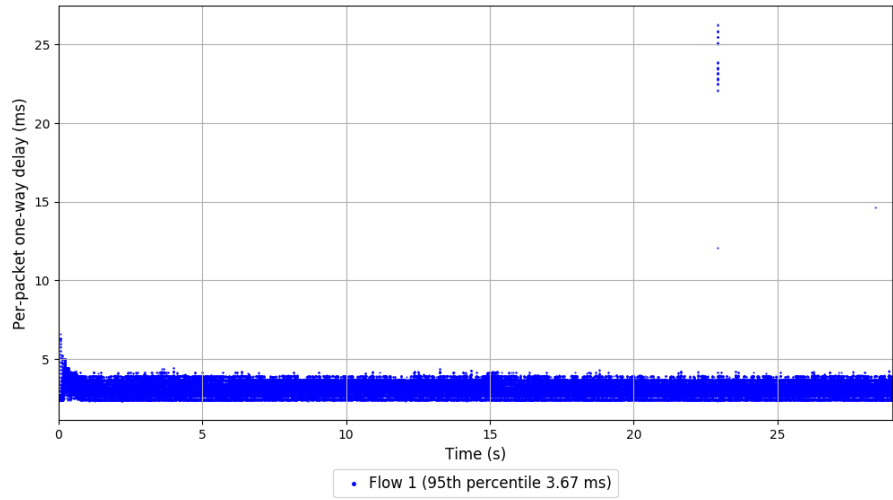
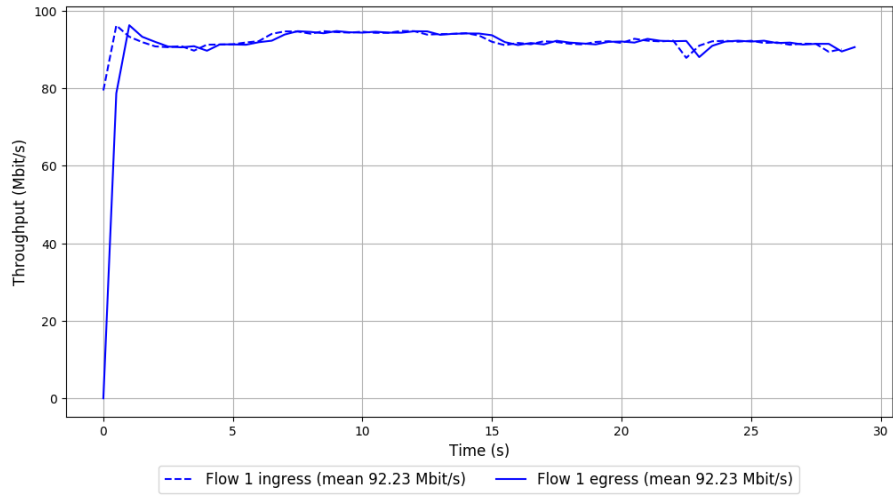
-- Flow 1:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 3.668 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-04-23 21:00:31

End at: 2019-04-23 21:01:01

Local clock offset: -1.581 ms

Remote clock offset: 0.727 ms

# Below is generated by plot.py at 2019-04-23 21:08:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 4.074 ms

Loss rate: 0.00%

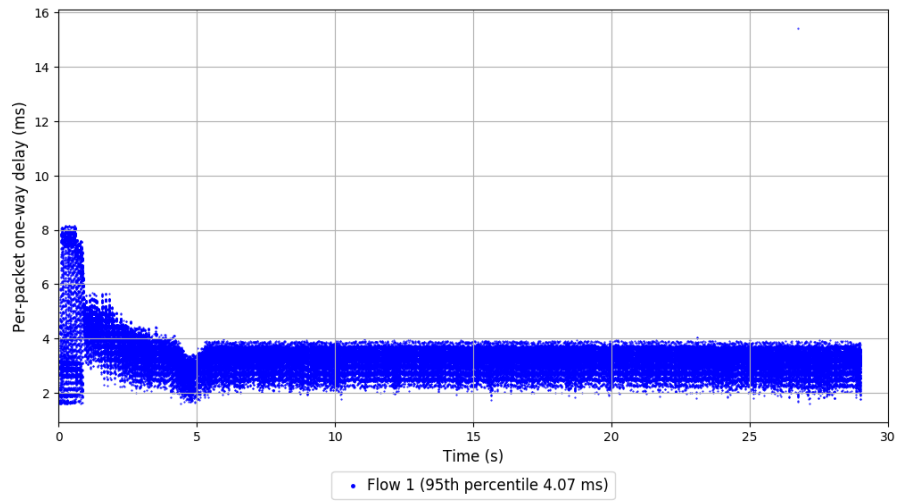
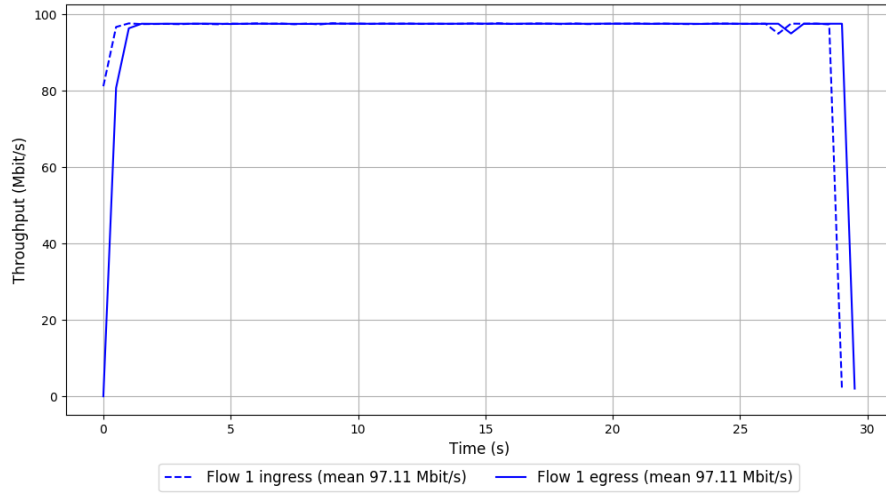
-- Flow 1:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 4.074 ms

Loss rate: 0.00%

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

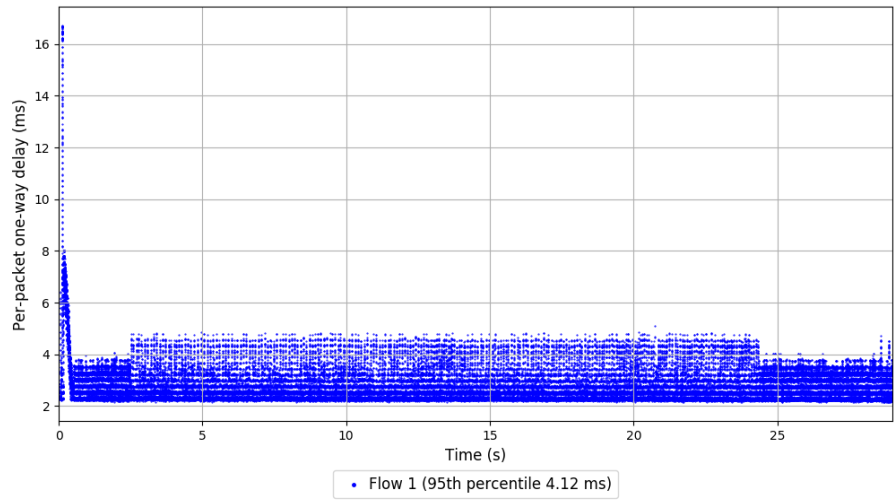
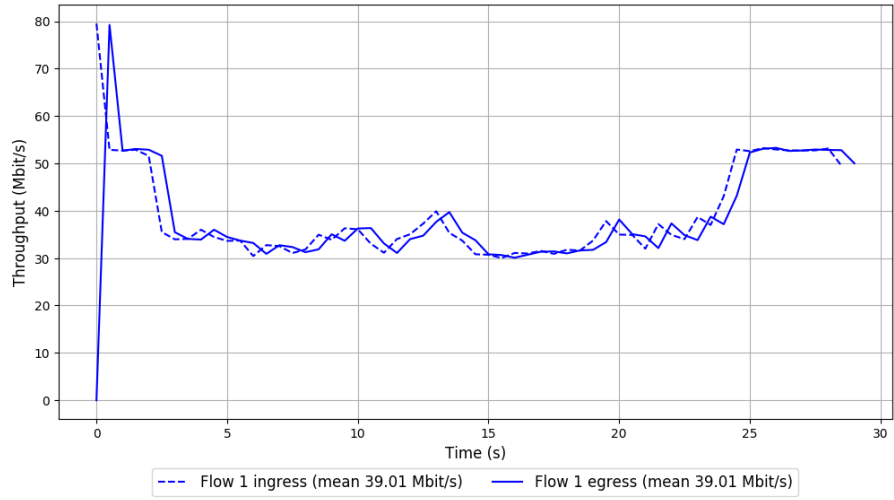


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-04-23 19:17:51  
End at: 2019-04-23 19:18:21  
Local clock offset: -2.949 ms  
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-04-23 21:08:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 39.01 Mbit/s  
95th percentile per-packet one-way delay: 4.119 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 39.01 Mbit/s  
95th percentile per-packet one-way delay: 4.119 ms  
Loss rate: 0.00%

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





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-04-23 19:41:19

End at: 2019-04-23 19:41:49

Local clock offset: -3.385 ms

Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2019-04-23 21:08:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.19 Mbit/s

95th percentile per-packet one-way delay: 3.692 ms

Loss rate: 0.00%

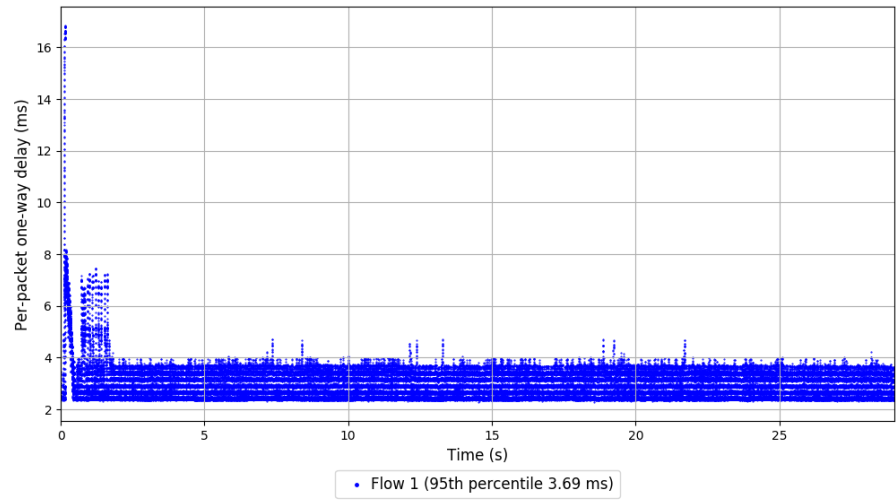
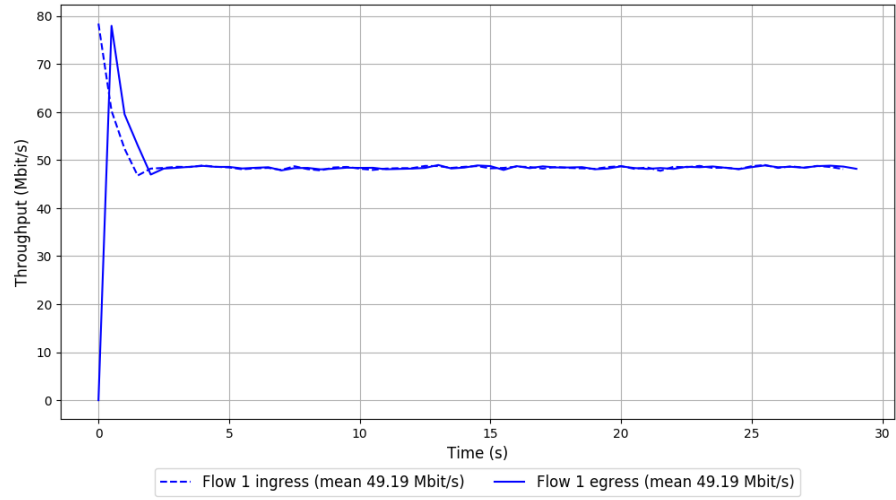
-- Flow 1:

Average throughput: 49.19 Mbit/s

95th percentile per-packet one-way delay: 3.692 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-04-23 20:04:46

End at: 2019-04-23 20:05:16

Local clock offset: -2.303 ms

Remote clock offset: 0.187 ms

# Below is generated by plot.py at 2019-04-23 21:08:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.08 Mbit/s

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

Loss rate: 0.00%

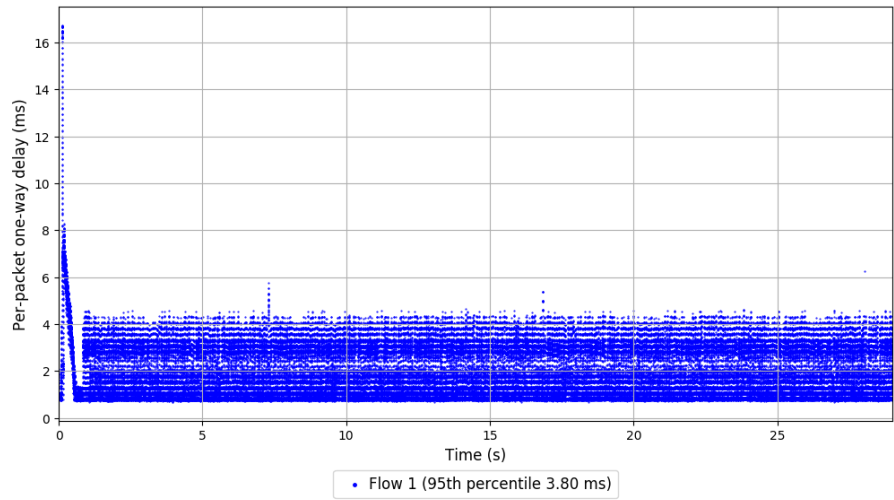
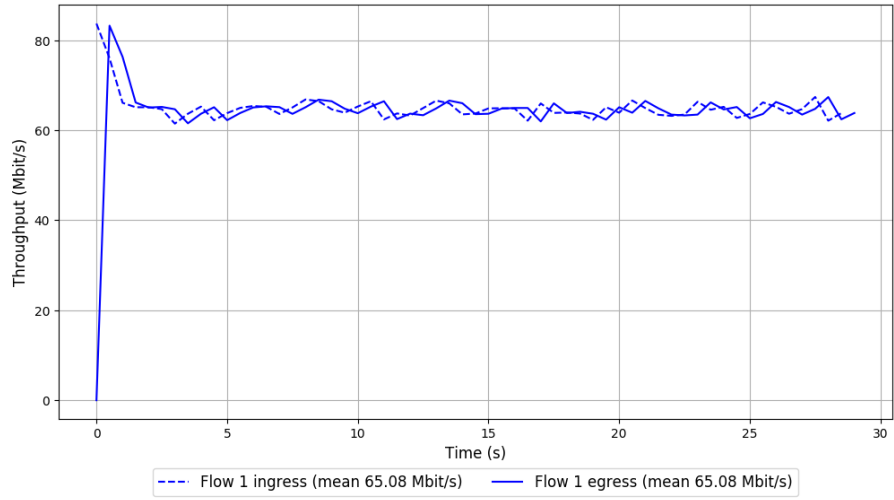
-- Flow 1:

Average throughput: 65.08 Mbit/s

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

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-04-23 20:28:12

End at: 2019-04-23 20:28:42

Local clock offset: -2.554 ms

Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2019-04-23 21:08:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.74 Mbit/s

95th percentile per-packet one-way delay: 4.384 ms

Loss rate: 0.00%

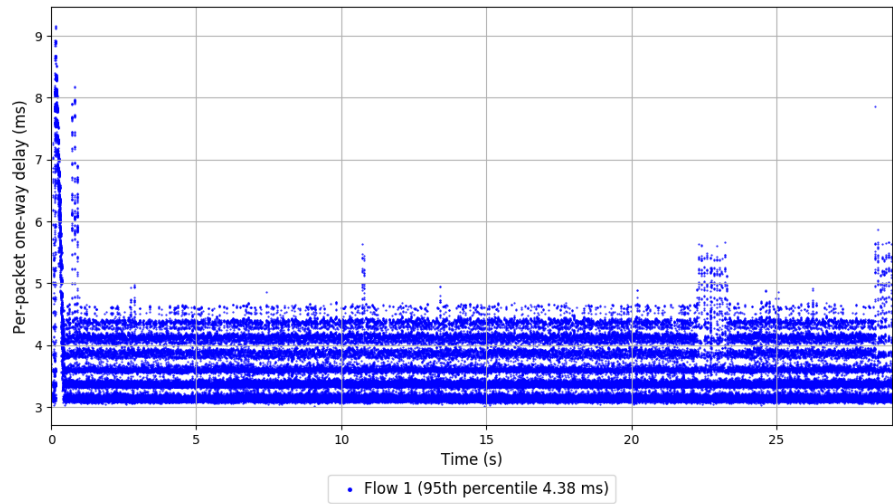
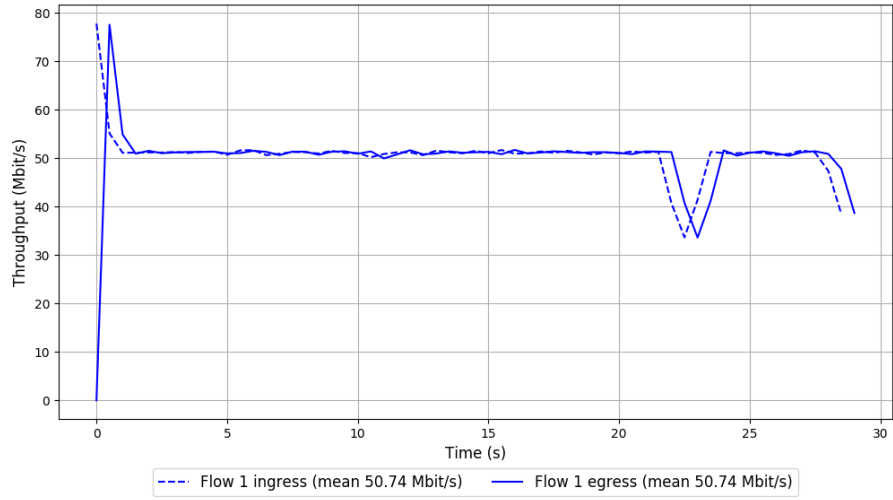
-- Flow 1:

Average throughput: 50.74 Mbit/s

95th percentile per-packet one-way delay: 4.384 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-04-23 20:51:38

End at: 2019-04-23 20:52:08

Local clock offset: -1.188 ms

Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2019-04-23 21:09:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 65.46 Mbit/s

95th percentile per-packet one-way delay: 4.253 ms

Loss rate: 0.00%

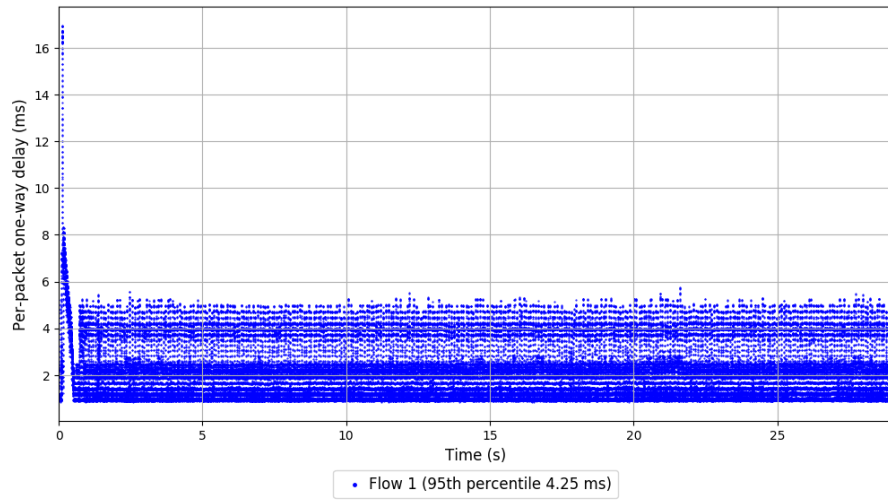
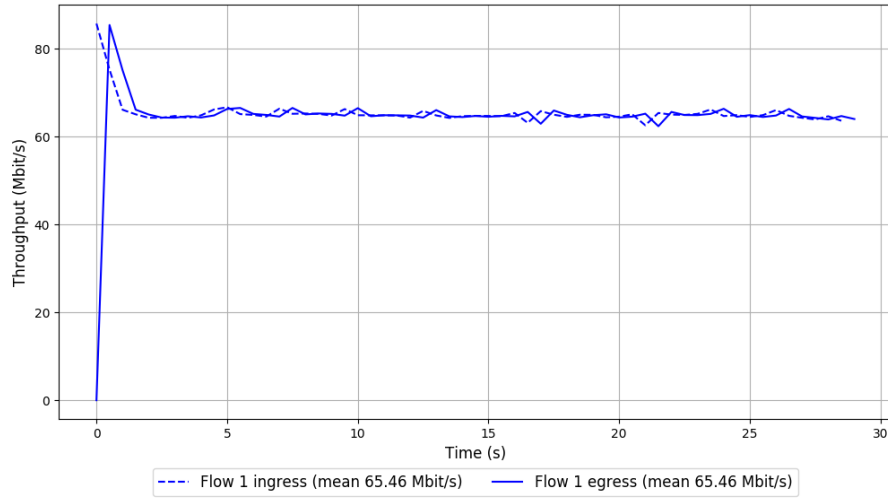
-- Flow 1:

Average throughput: 65.46 Mbit/s

95th percentile per-packet one-way delay: 4.253 ms

Loss rate: 0.00%

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





Run 1: Statistics of Indigo-MusesD

Start at: 2019-04-23 19:22:14

End at: 2019-04-23 19:22:44

Local clock offset: -3.141 ms

Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-04-23 21:09:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.24 Mbit/s

95th percentile per-packet one-way delay: 3.791 ms

Loss rate: 0.00%

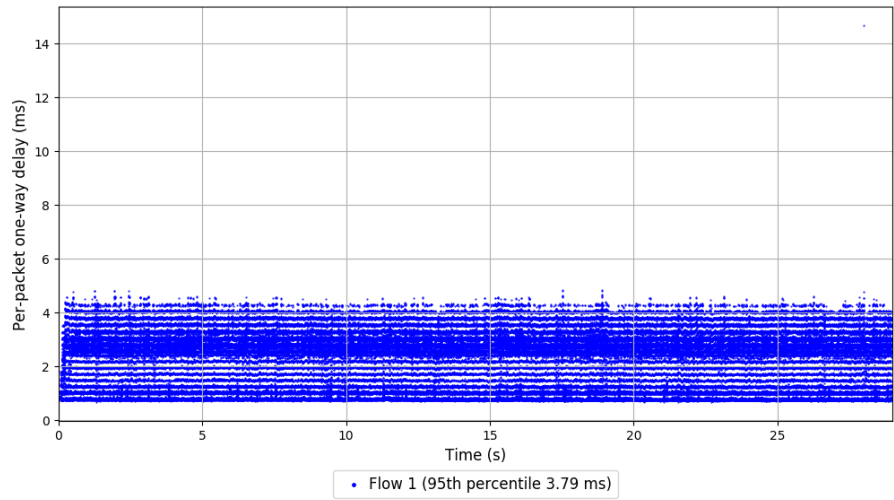
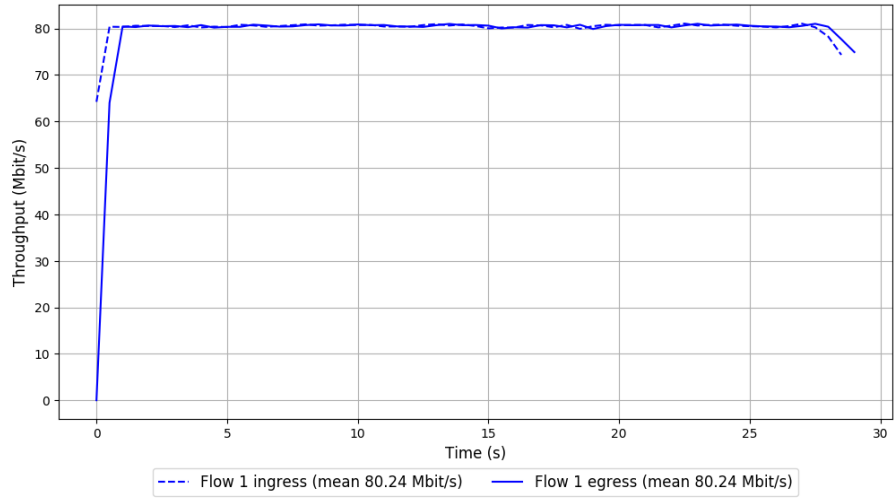
-- Flow 1:

Average throughput: 80.24 Mbit/s

95th percentile per-packet one-way delay: 3.791 ms

Loss rate: 0.00%

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



Run 2: Statistics of Indigo-MusesD

Start at: 2019-04-23 19:45:43

End at: 2019-04-23 19:46:13

Local clock offset: -4.133 ms

Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2019-04-23 21:09:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.26 Mbit/s

95th percentile per-packet one-way delay: 5.199 ms

Loss rate: 0.00%

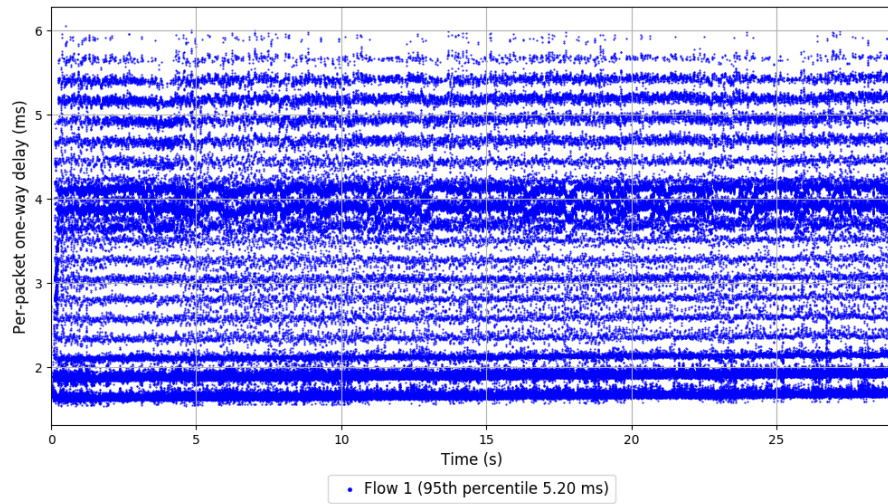
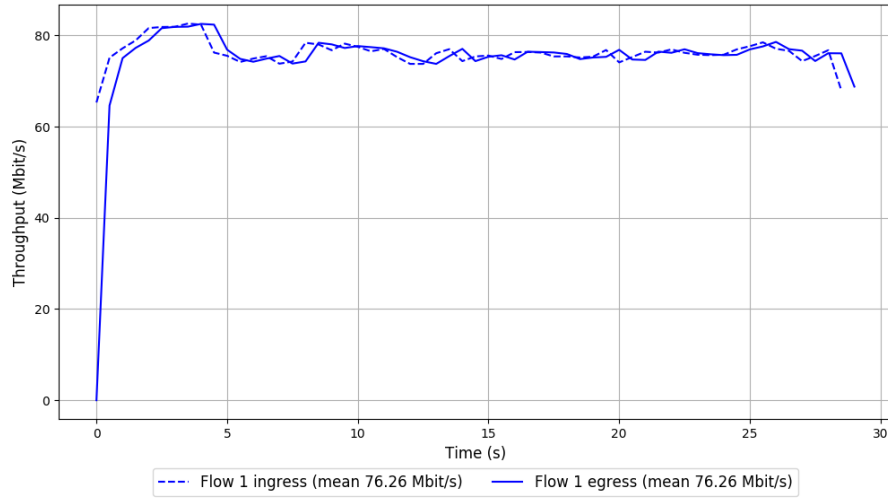
-- Flow 1:

Average throughput: 76.26 Mbit/s

95th percentile per-packet one-way delay: 5.199 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-04-23 20:09:10

End at: 2019-04-23 20:09:40

Local clock offset: -3.02 ms

Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2019-04-23 21:09:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 5.713 ms

Loss rate: 0.00%

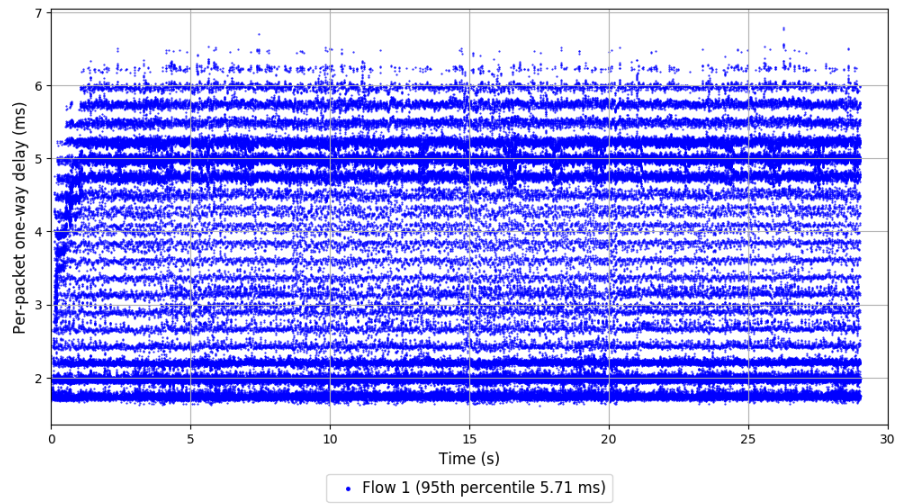
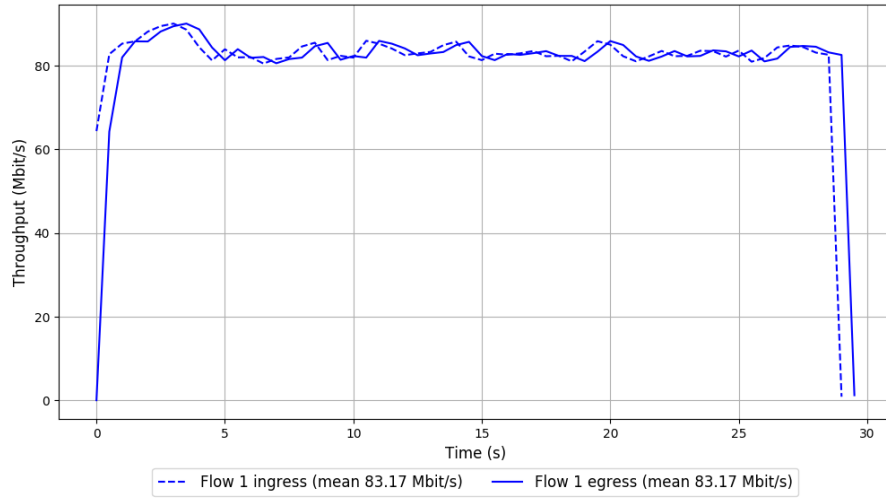
-- Flow 1:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 5.713 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-04-23 20:32:36

End at: 2019-04-23 20:33:06

Local clock offset: -1.767 ms

Remote clock offset: 0.45 ms

# Below is generated by plot.py at 2019-04-23 21:09:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.86 Mbit/s

95th percentile per-packet one-way delay: 4.127 ms

Loss rate: 0.00%

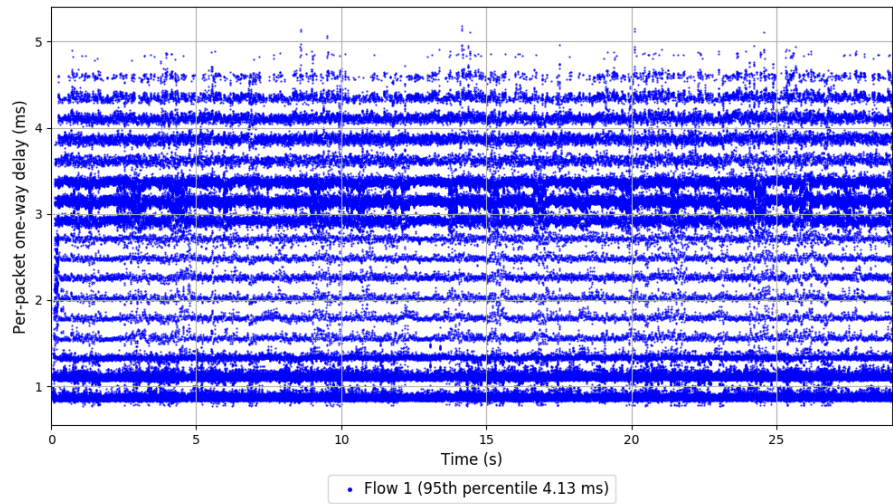
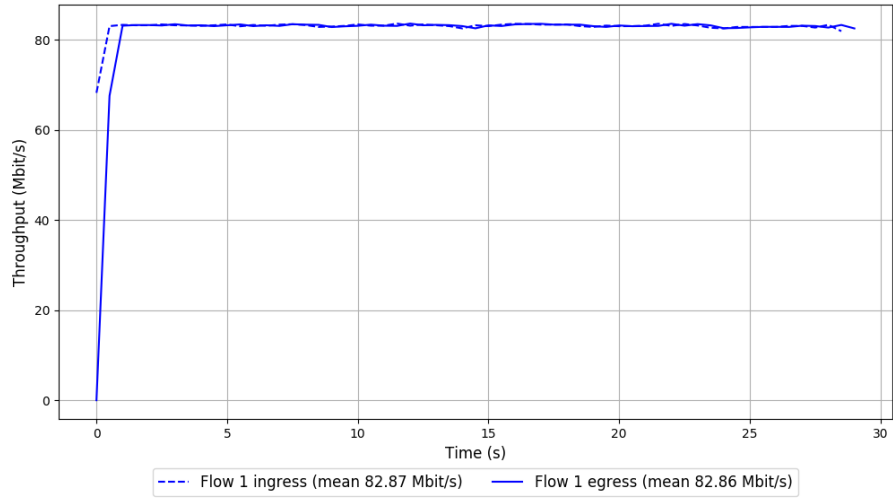
-- Flow 1:

Average throughput: 82.86 Mbit/s

95th percentile per-packet one-way delay: 4.127 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-04-23 20:56:03

End at: 2019-04-23 20:56:33

Local clock offset: -0.953 ms

Remote clock offset: 0.646 ms

# Below is generated by plot.py at 2019-04-23 21:09:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.63 Mbit/s

95th percentile per-packet one-way delay: 4.581 ms

Loss rate: 0.00%

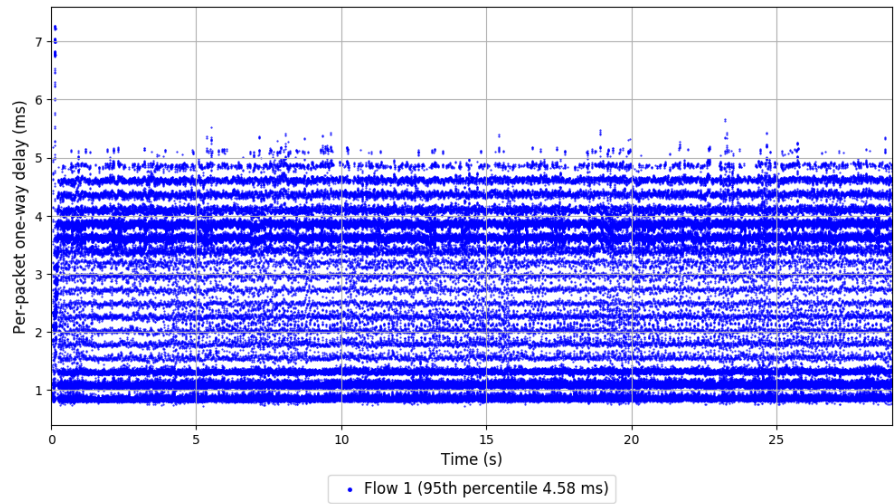
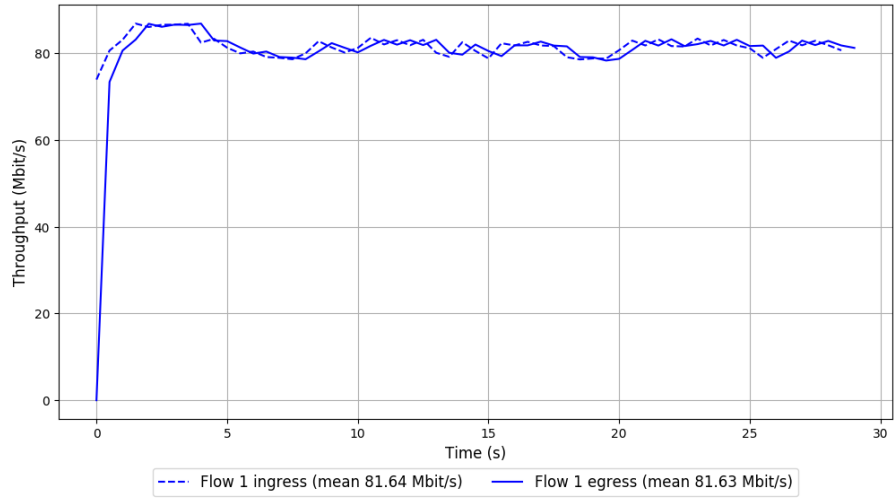
-- Flow 1:

Average throughput: 81.63 Mbit/s

95th percentile per-packet one-way delay: 4.581 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2019-04-23 19:24:30  
End at: 2019-04-23 19:25:00  
Local clock offset: -3.973 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-04-23 21:09:57

# Datalink statistics

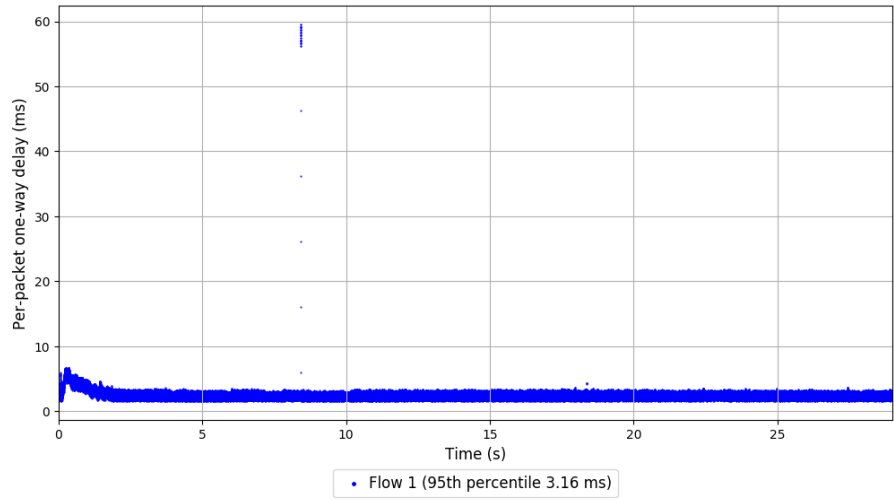
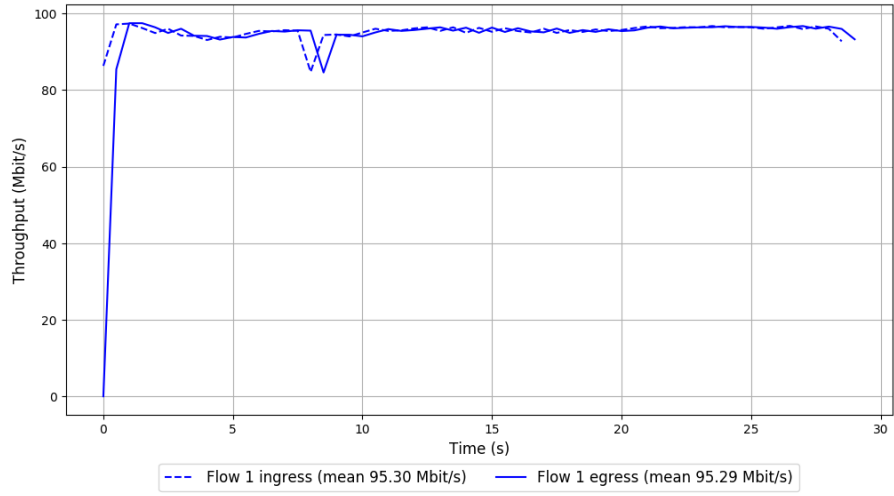
-- Total of 1 flow:

Average throughput: 95.29 Mbit/s  
95th percentile per-packet one-way delay: 3.160 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 95.29 Mbit/s  
95th percentile per-packet one-way delay: 3.160 ms  
Loss rate: 0.00%

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



Run 2: Statistics of Indigo-MuseST

Start at: 2019-04-23 19:47:58

End at: 2019-04-23 19:48:29

Local clock offset: -3.128 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-04-23 21:09:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 3.335 ms

Loss rate: 0.00%

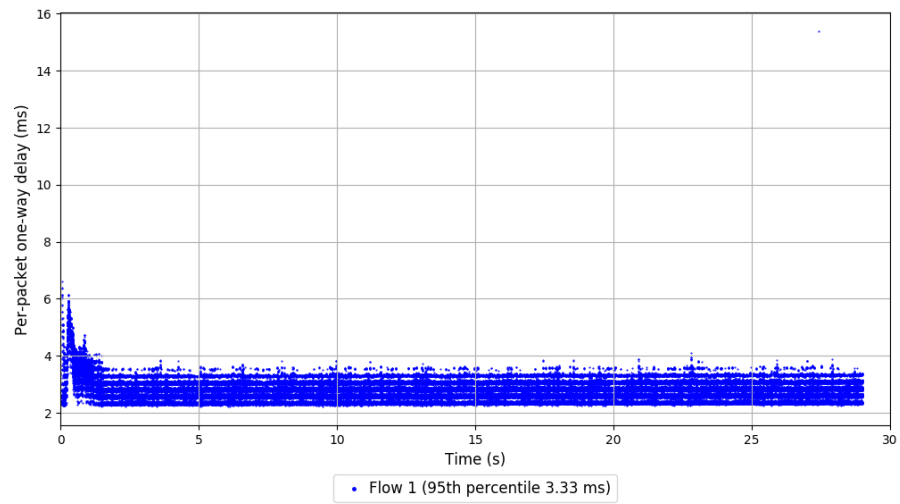
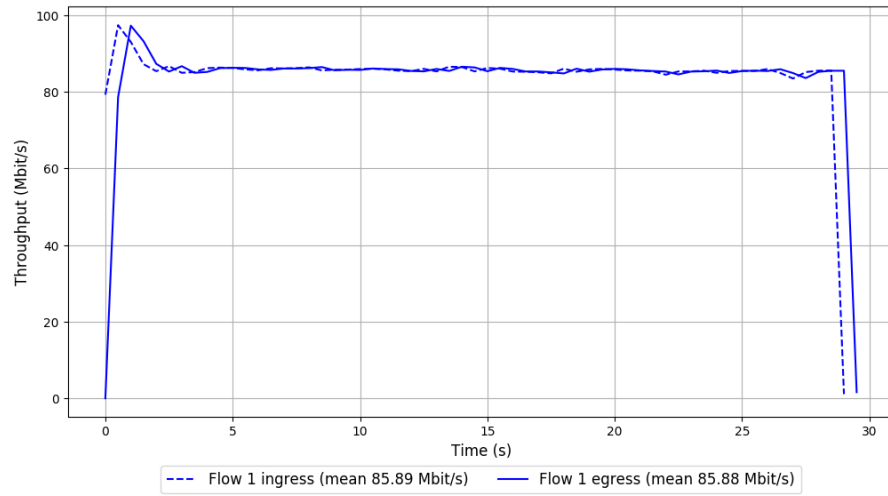
-- Flow 1:

Average throughput: 85.88 Mbit/s

95th percentile per-packet one-way delay: 3.335 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-MuseST

Start at: 2019-04-23 20:11:26

End at: 2019-04-23 20:11:56

Local clock offset: -2.952 ms

Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2019-04-23 21:10:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 4.186 ms

Loss rate: 0.00%

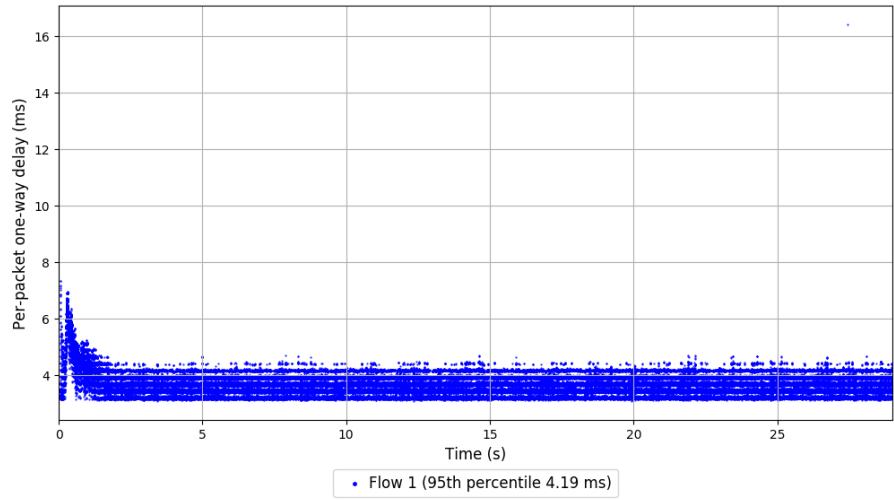
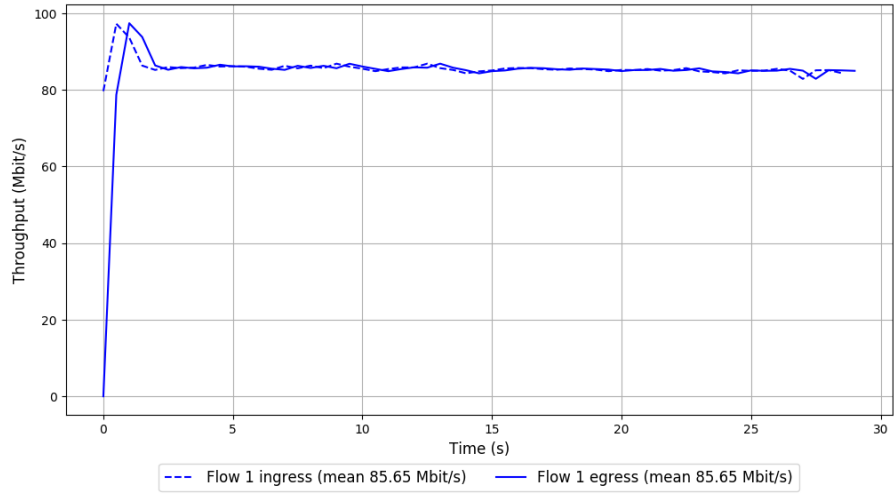
-- Flow 1:

Average throughput: 85.65 Mbit/s

95th percentile per-packet one-way delay: 4.186 ms

Loss rate: 0.00%

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





Run 4: Statistics of Indigo-MuseST

Start at: 2019-04-23 20:34:52

End at: 2019-04-23 20:35:22

Local clock offset: -1.685 ms

Remote clock offset: 0.535 ms

# Below is generated by plot.py at 2019-04-23 21:10:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.53 Mbit/s

95th percentile per-packet one-way delay: 2.396 ms

Loss rate: 0.00%

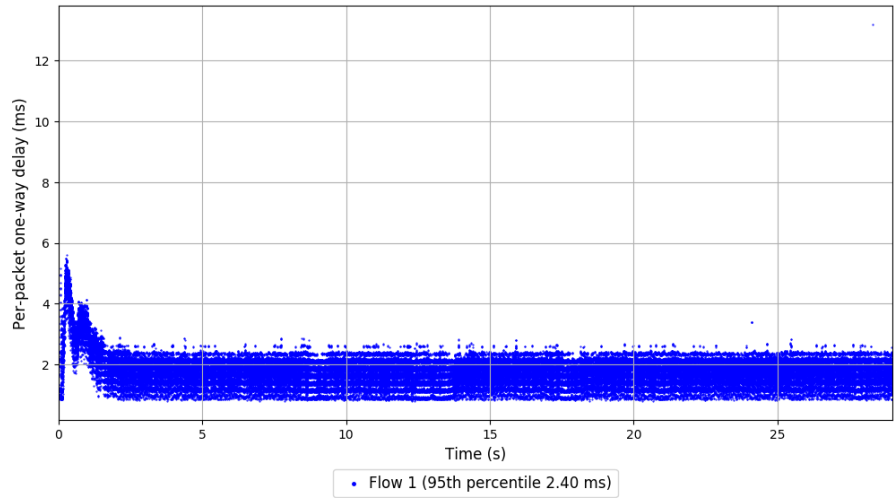
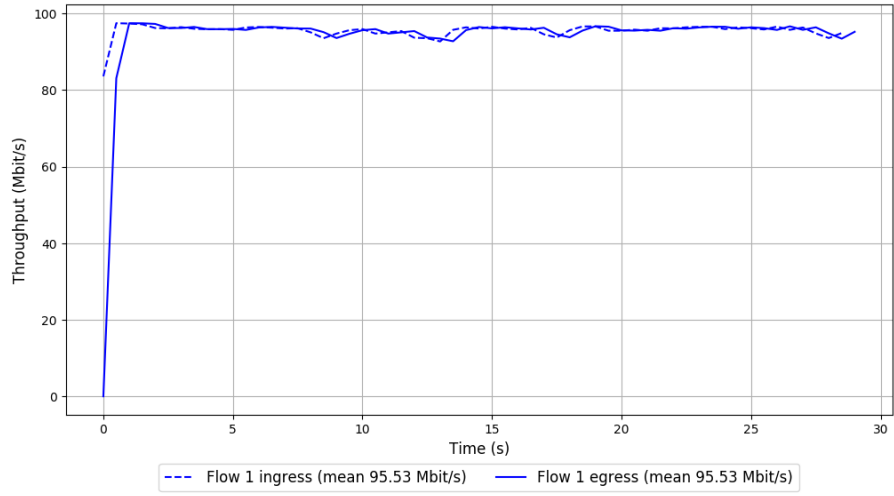
-- Flow 1:

Average throughput: 95.53 Mbit/s

95th percentile per-packet one-way delay: 2.396 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-04-23 20:58:18

End at: 2019-04-23 20:58:48

Local clock offset: -0.882 ms

Remote clock offset: 0.705 ms

# Below is generated by plot.py at 2019-04-23 21:10:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 2.430 ms

Loss rate: 0.00%

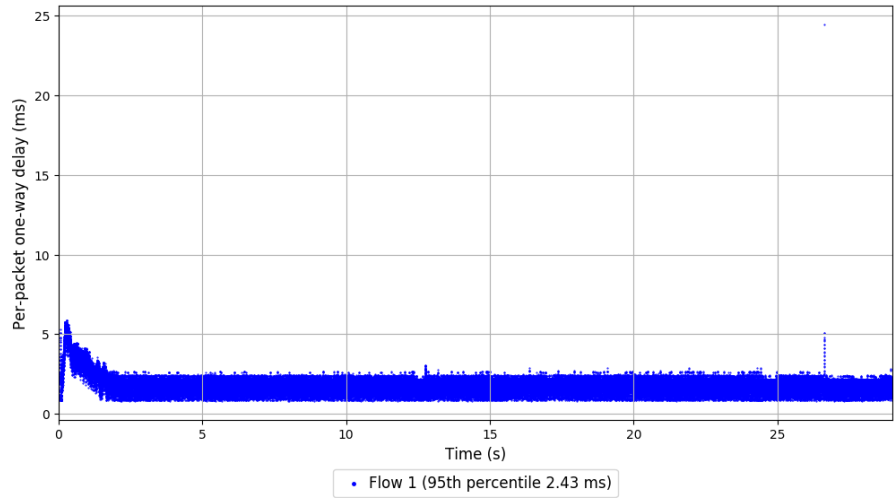
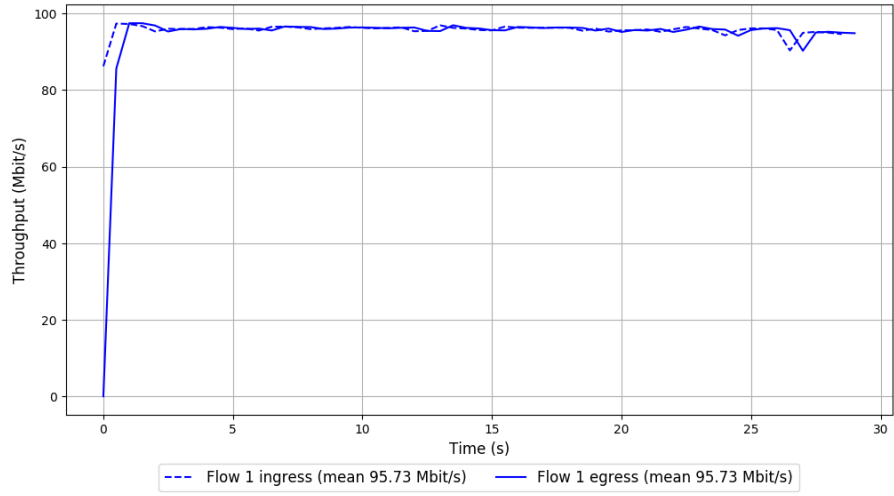
-- Flow 1:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 2.430 ms

Loss rate: 0.00%

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



Run 1: Statistics of LEDBAT

Start at: 2019-04-23 19:13:21

End at: 2019-04-23 19:13:51

Local clock offset: -2.814 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-04-23 21:10:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 32.118 ms

Loss rate: 0.01%

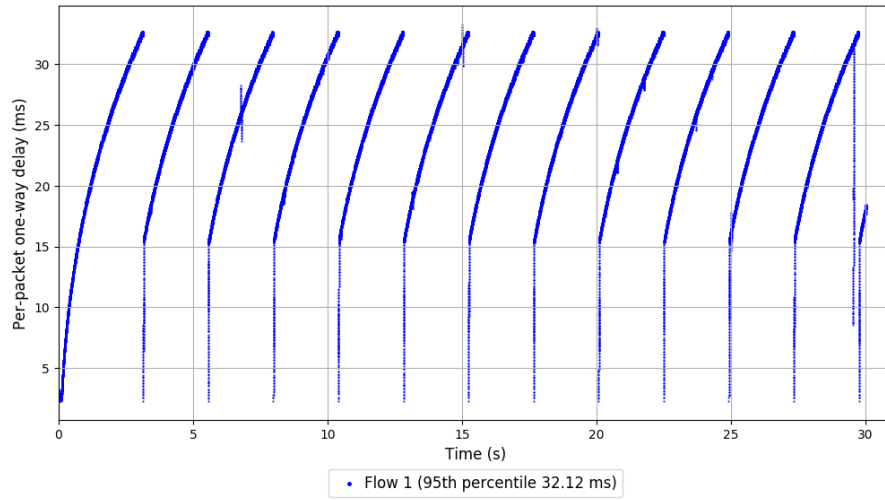
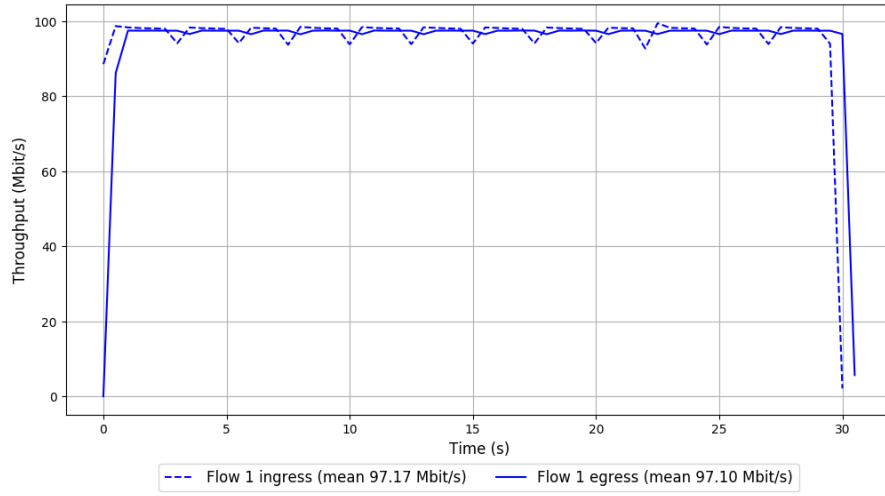
-- Flow 1:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 32.118 ms

Loss rate: 0.01%

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



Run 2: Statistics of LEDBAT

Start at: 2019-04-23 19:36:49

End at: 2019-04-23 19:37:19

Local clock offset: -4.146 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2019-04-23 21:10:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 32.927 ms

Loss rate: 0.01%

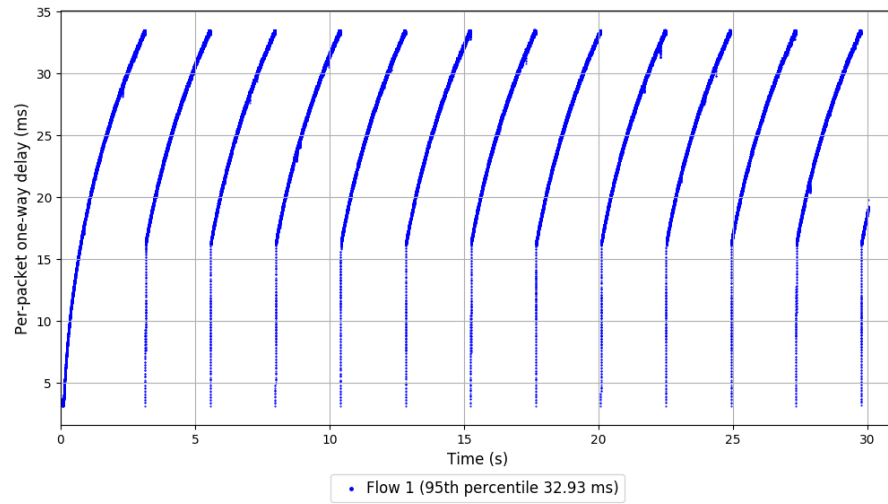
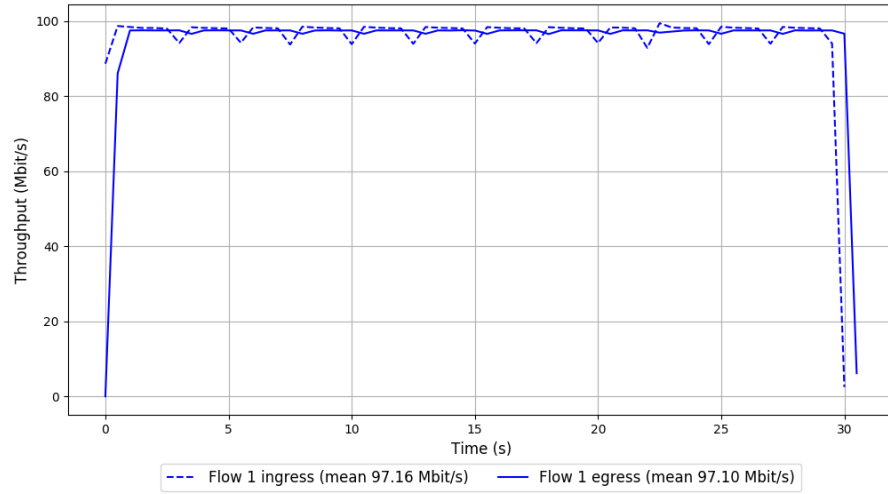
-- Flow 1:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 32.927 ms

Loss rate: 0.01%

## Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-04-23 20:00:16

End at: 2019-04-23 20:00:46

Local clock offset: -2.423 ms

Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2019-04-23 21:10:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 30.583 ms

Loss rate: 0.01%

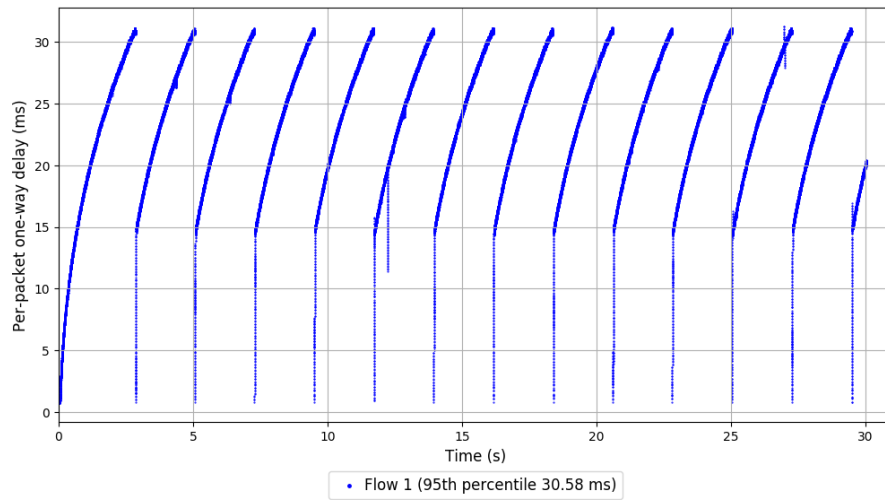
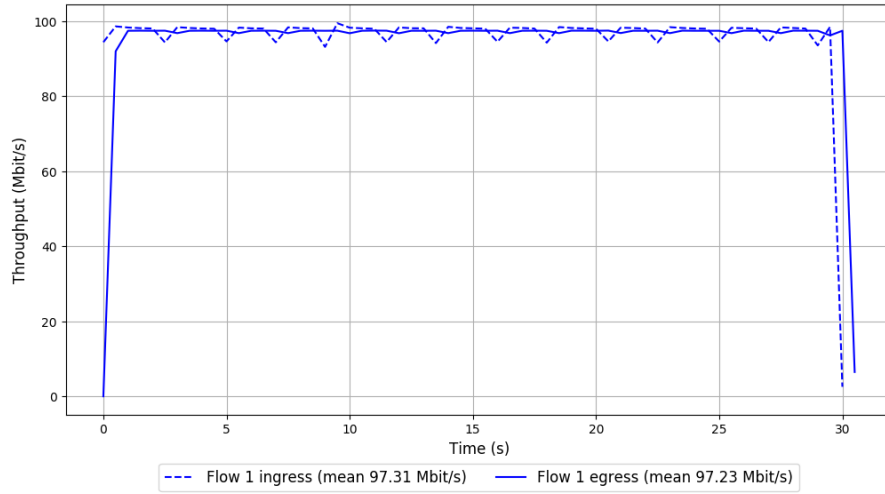
-- Flow 1:

Average throughput: 97.23 Mbit/s

95th percentile per-packet one-way delay: 30.583 ms

Loss rate: 0.01%

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



Run 4: Statistics of LEDBAT

Start at: 2019-04-23 20:23:43

End at: 2019-04-23 20:24:13

Local clock offset: -2.649 ms

Remote clock offset: 0.448 ms

# Below is generated by plot.py at 2019-04-23 21:11:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 32.957 ms

Loss rate: 0.01%

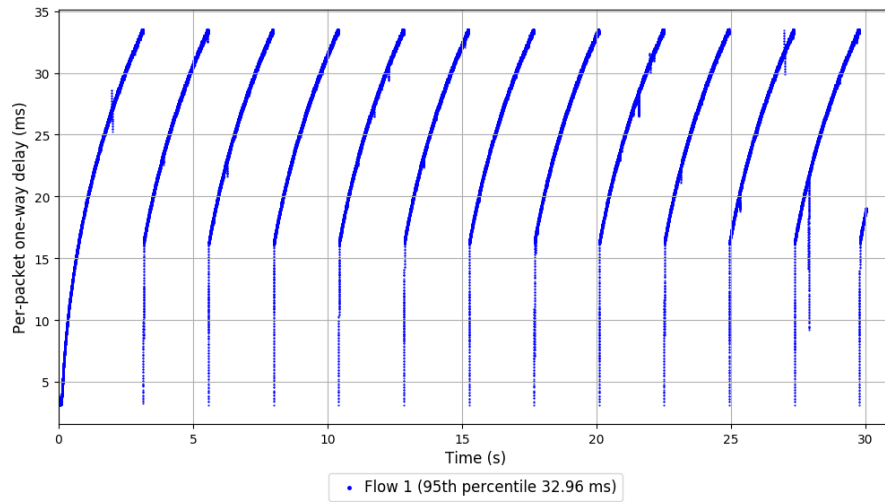
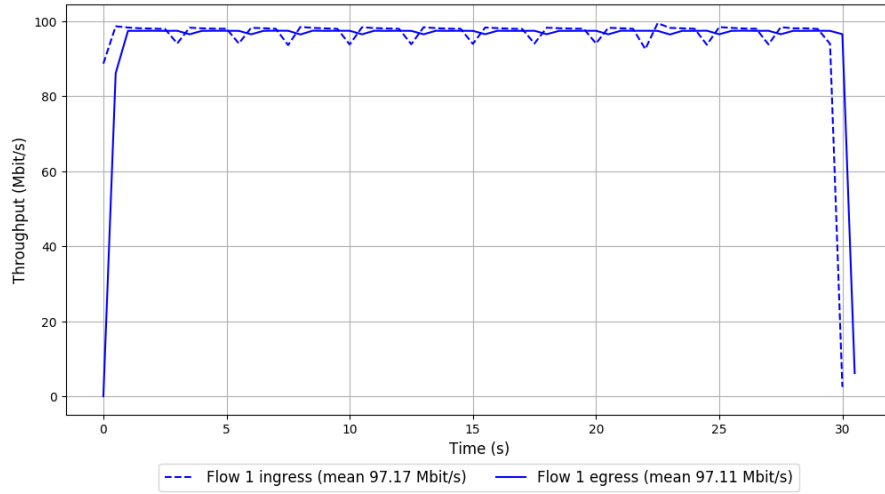
-- Flow 1:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 32.957 ms

Loss rate: 0.01%

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



Run 5: Statistics of LEDBAT

Start at: 2019-04-23 20:47:08

End at: 2019-04-23 20:47:38

Local clock offset: -2.213 ms

Remote clock offset: 0.545 ms

# Below is generated by plot.py at 2019-04-23 21:11:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 32.934 ms

Loss rate: 0.01%

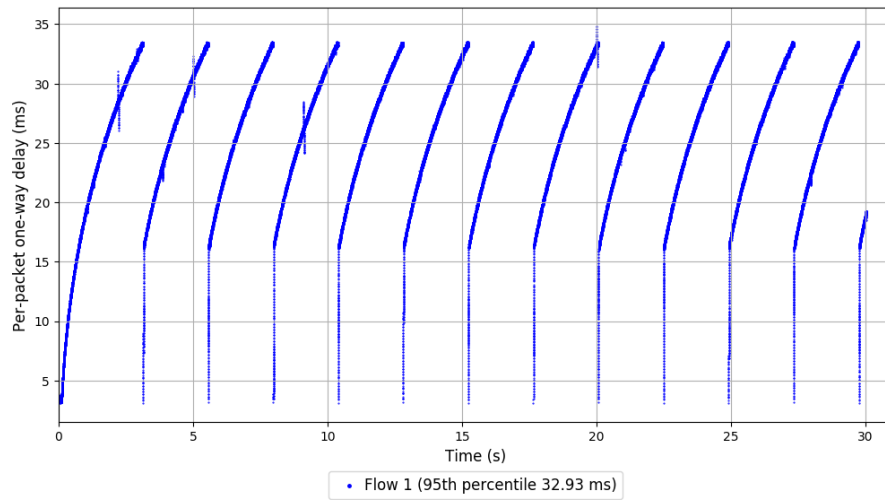
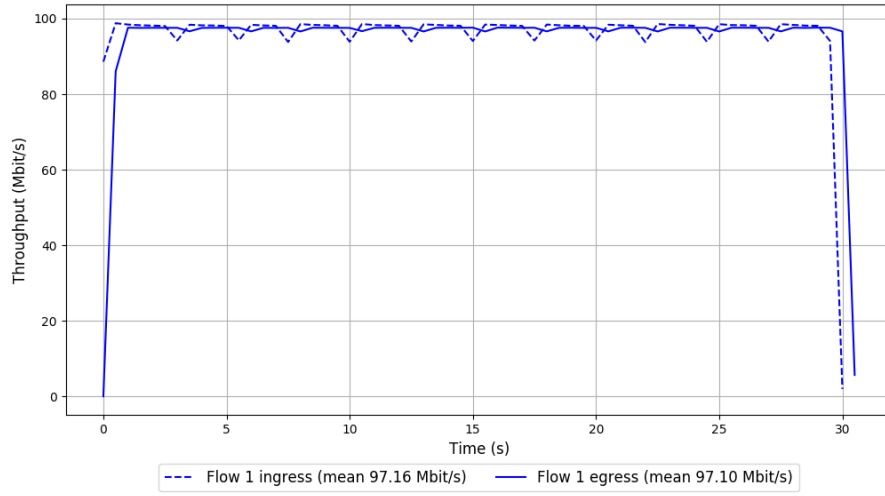
-- Flow 1:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 32.934 ms

Loss rate: 0.01%

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

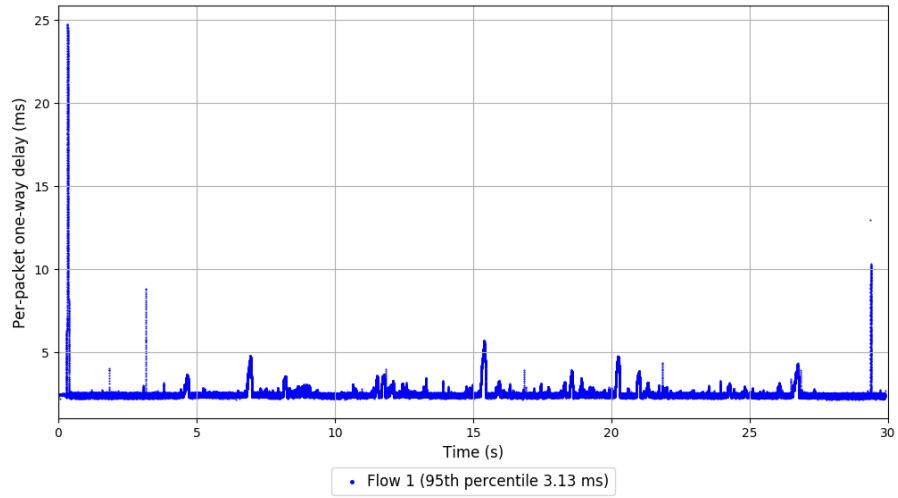
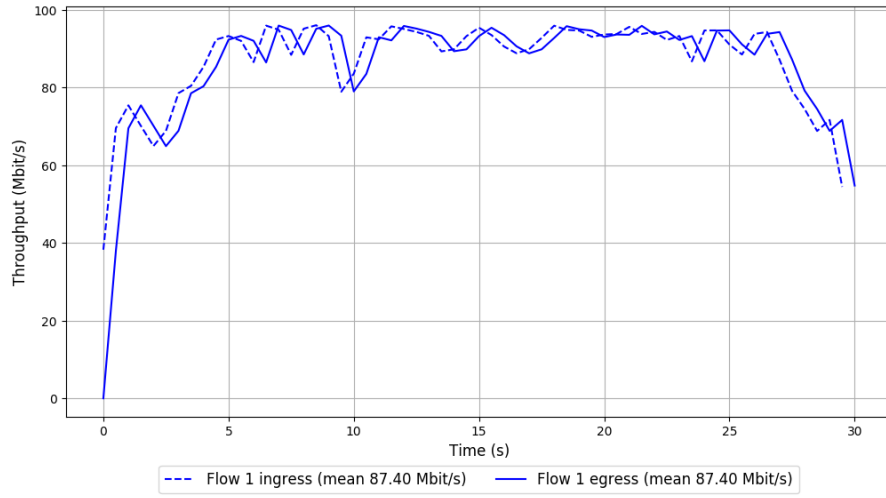


Run 1: Statistics of PCC-Allegro

Start at: 2019-04-23 19:15:40  
End at: 2019-04-23 19:16:10  
Local clock offset: -2.819 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-04-23 21:11:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.40 Mbit/s  
95th percentile per-packet one-way delay: 3.128 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 87.40 Mbit/s  
95th percentile per-packet one-way delay: 3.128 ms  
Loss rate: 0.00%

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





Run 2: Statistics of PCC-Allegro

Start at: 2019-04-23 19:39:08

End at: 2019-04-23 19:39:38

Local clock offset: -4.148 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-04-23 21:11:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.17 Mbit/s

95th percentile per-packet one-way delay: 4.406 ms

Loss rate: 0.00%

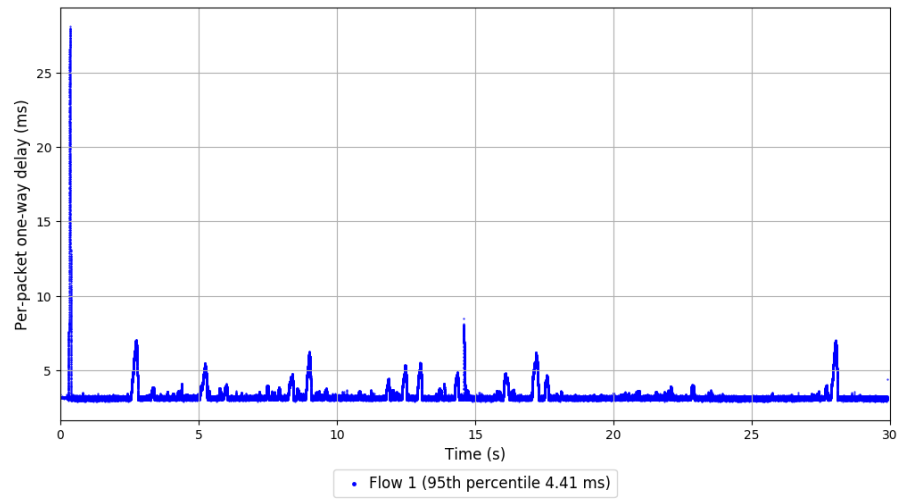
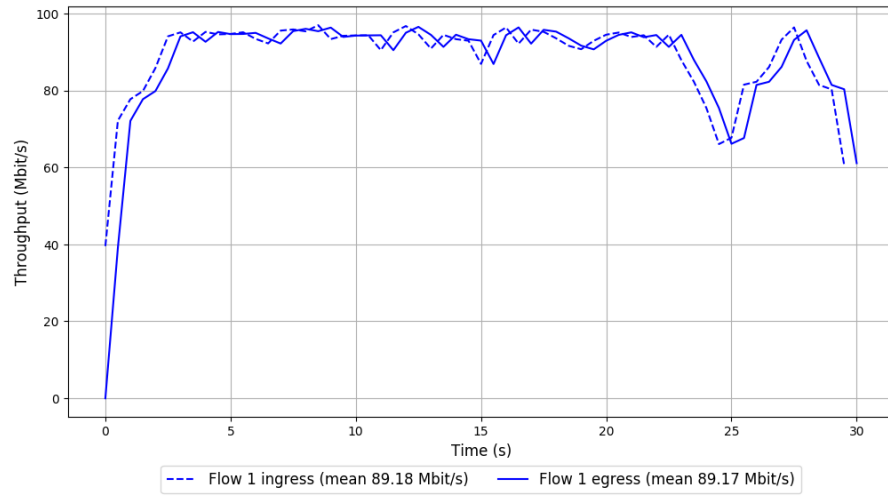
-- Flow 1:

Average throughput: 89.17 Mbit/s

95th percentile per-packet one-way delay: 4.406 ms

Loss rate: 0.00%

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



Run 3: Statistics of PCC-Allegro

Start at: 2019-04-23 20:02:34

End at: 2019-04-23 20:03:04

Local clock offset: -2.426 ms

Remote clock offset: 0.273 ms

# Below is generated by plot.py at 2019-04-23 21:11:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 3.930 ms

Loss rate: 0.00%

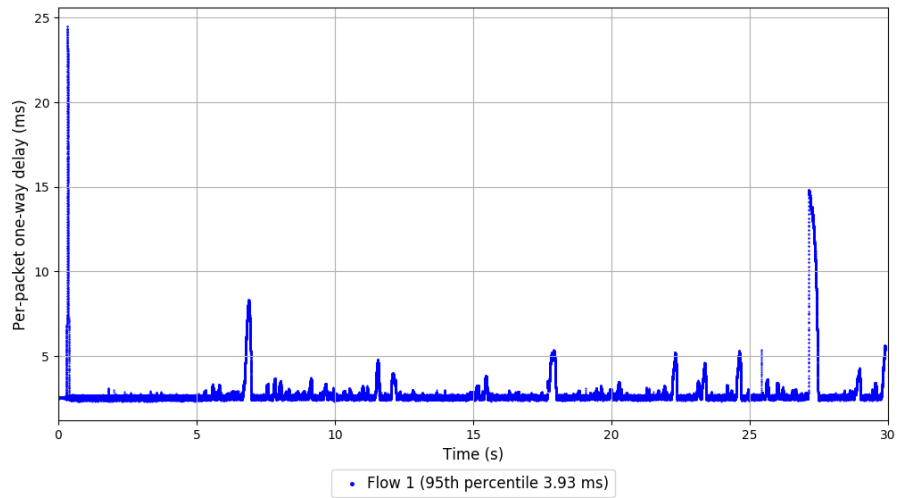
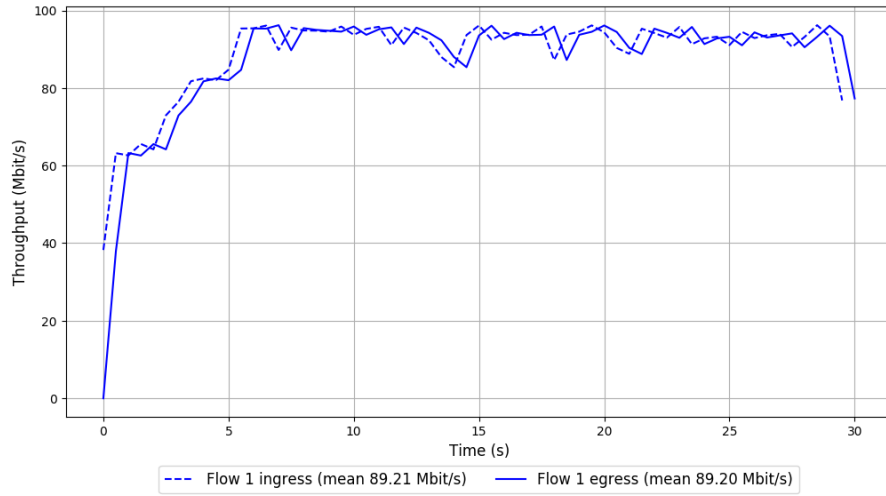
-- Flow 1:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 3.930 ms

Loss rate: 0.00%

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



Run 4: Statistics of PCC-Allegro

Start at: 2019-04-23 20:26:01

End at: 2019-04-23 20:26:31

Local clock offset: -1.826 ms

Remote clock offset: 0.461 ms

# Below is generated by plot.py at 2019-04-23 21:11:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 1.473 ms

Loss rate: 0.00%

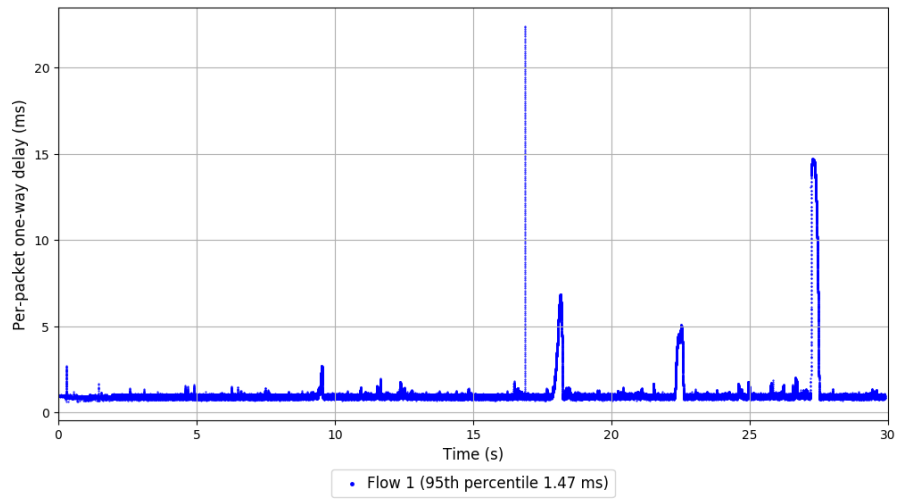
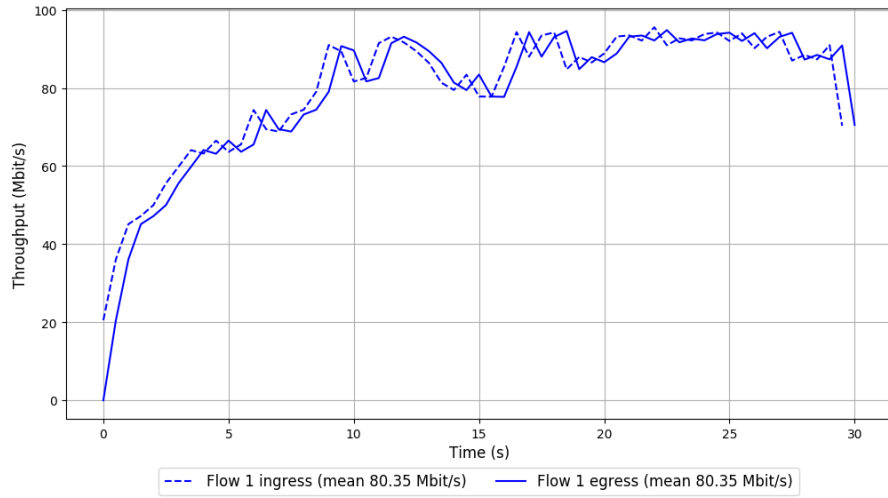
-- Flow 1:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 1.473 ms

Loss rate: 0.00%

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



Run 5: Statistics of PCC-Allegro

Start at: 2019-04-23 20:49:27

End at: 2019-04-23 20:49:57

Local clock offset: -2.09 ms

Remote clock offset: 0.57 ms

# Below is generated by plot.py at 2019-04-23 21:11:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.52 Mbit/s

95th percentile per-packet one-way delay: 4.252 ms

Loss rate: 0.00%

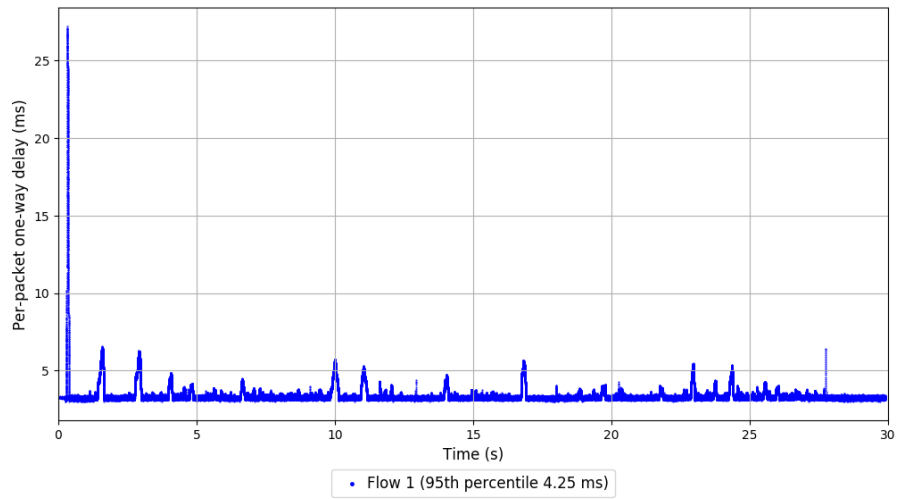
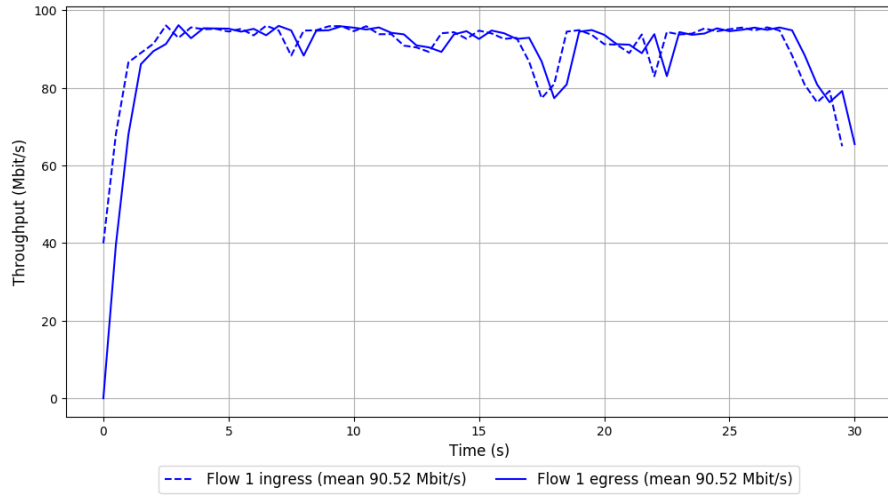
-- Flow 1:

Average throughput: 90.52 Mbit/s

95th percentile per-packet one-way delay: 4.252 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link





Run 1: Statistics of PCC-Expr

Start at: 2019-04-23 19:27:51

End at: 2019-04-23 19:28:21

Local clock offset: -4.046 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-04-23 21:11:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 1.724 ms

Loss rate: 20.91%

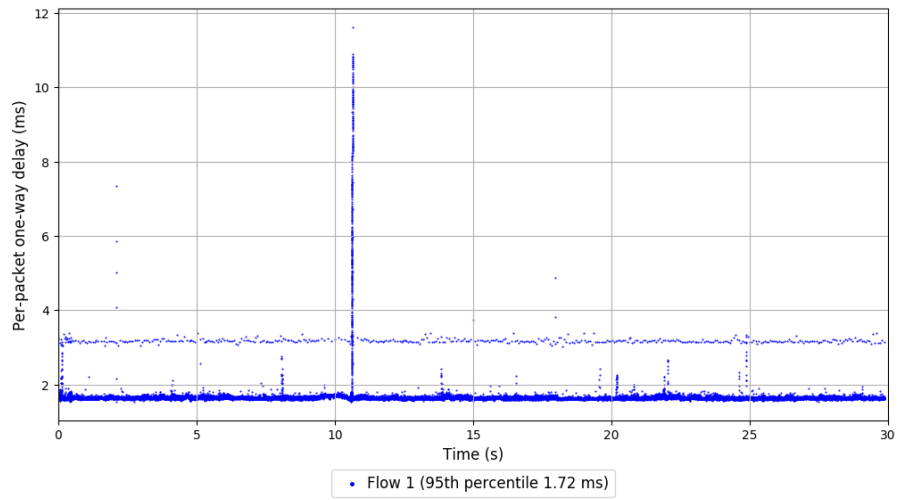
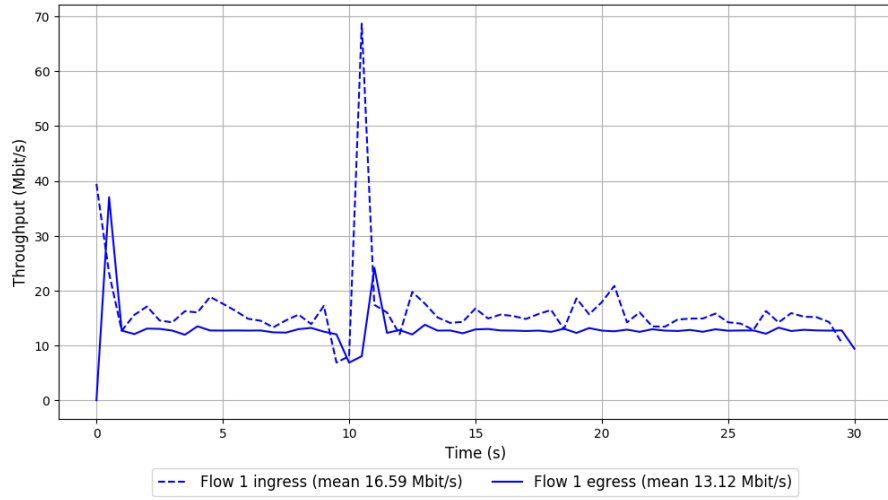
-- Flow 1:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 1.724 ms

Loss rate: 20.91%

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



Run 2: Statistics of PCC-Expr

Start at: 2019-04-23 19:51:20

End at: 2019-04-23 19:51:50

Local clock offset: -3.645 ms

Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2019-04-23 21:11:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 13.837 ms

Loss rate: 45.46%

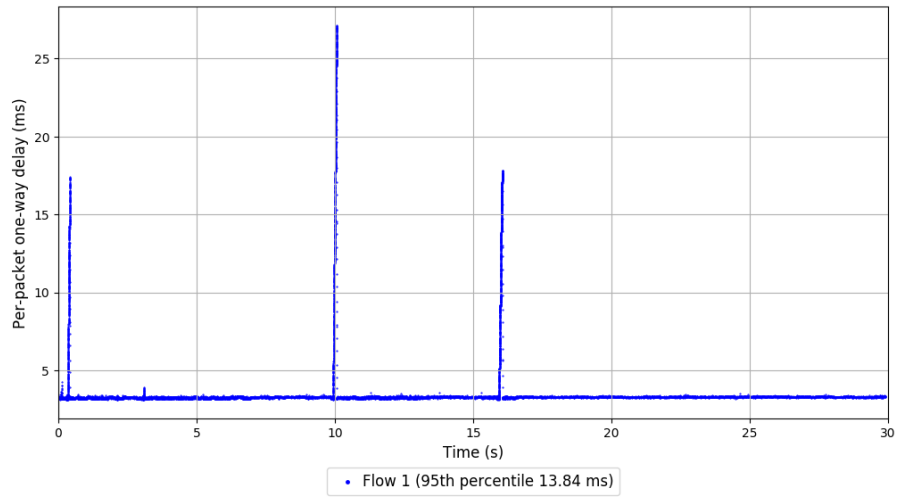
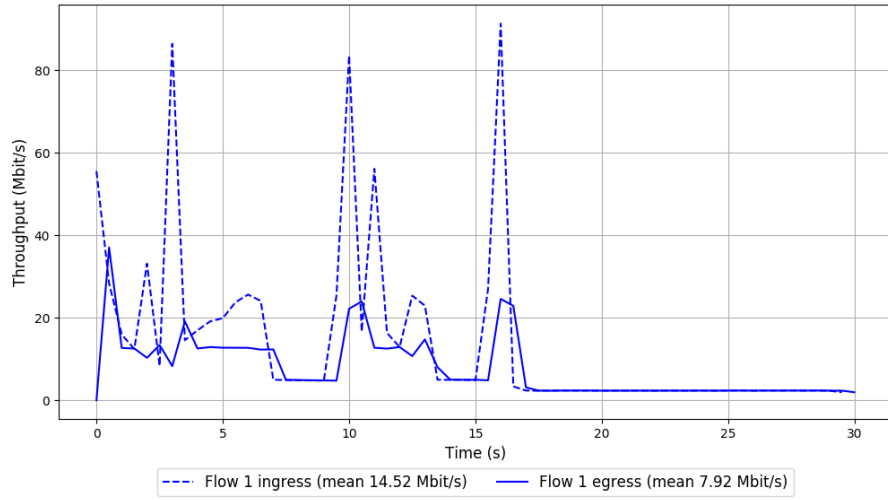
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 13.837 ms

Loss rate: 45.46%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-04-23 20:14:46

End at: 2019-04-23 20:15:16

Local clock offset: -2.892 ms

Remote clock offset: 0.302 ms

# Below is generated by plot.py at 2019-04-23 21:11:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 3.278 ms

Loss rate: 26.61%

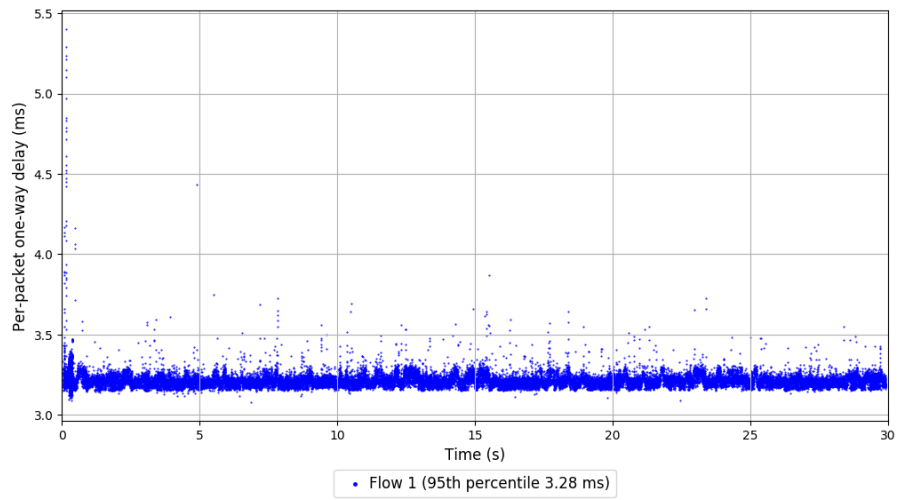
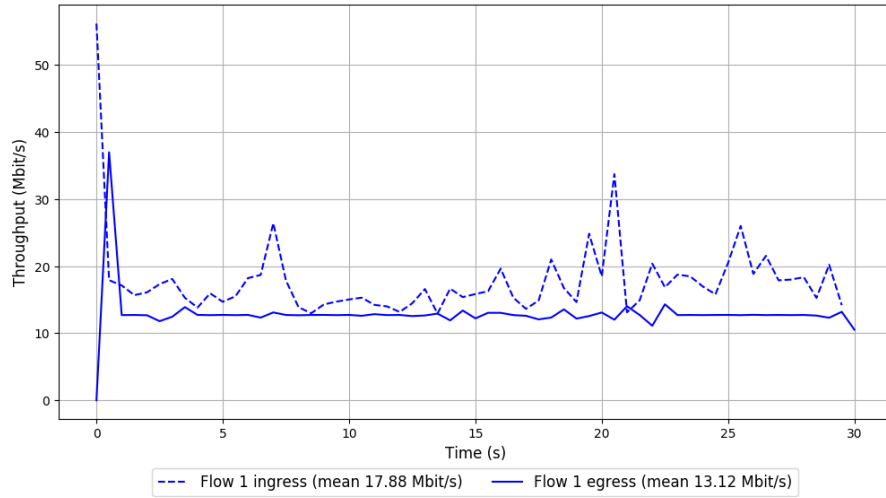
-- Flow 1:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 3.278 ms

Loss rate: 26.61%

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



Run 4: Statistics of PCC-Expr

Start at: 2019-04-23 20:38:13

End at: 2019-04-23 20:38:43

Local clock offset: -2.39 ms

Remote clock offset: 0.56 ms

# Below is generated by plot.py at 2019-04-23 21:11:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 3.309 ms

Loss rate: 10.28%

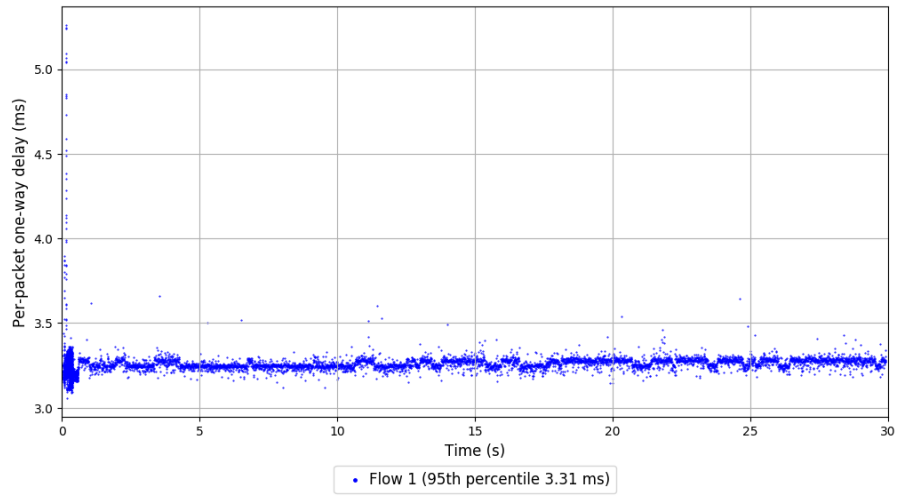
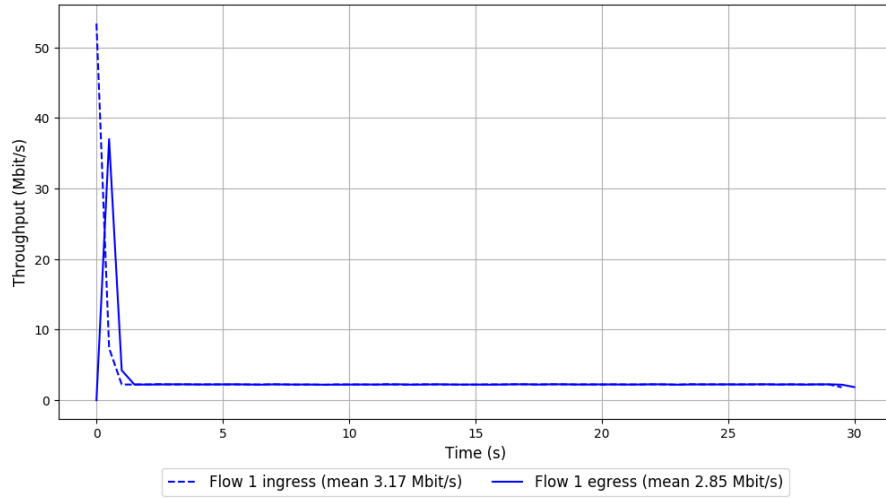
-- Flow 1:

Average throughput: 2.85 Mbit/s

95th percentile per-packet one-way delay: 3.309 ms

Loss rate: 10.28%

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





Run 5: Statistics of PCC-Expr

Start at: 2019-04-23 21:01:39

End at: 2019-04-23 21:02:09

Local clock offset: -0.841 ms

Remote clock offset: 0.736 ms

# Below is generated by plot.py at 2019-04-23 21:11:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 25.37%

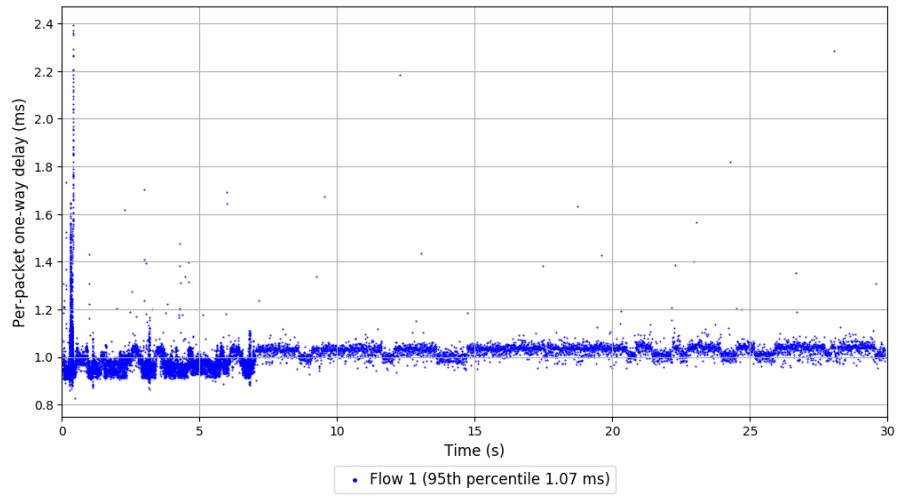
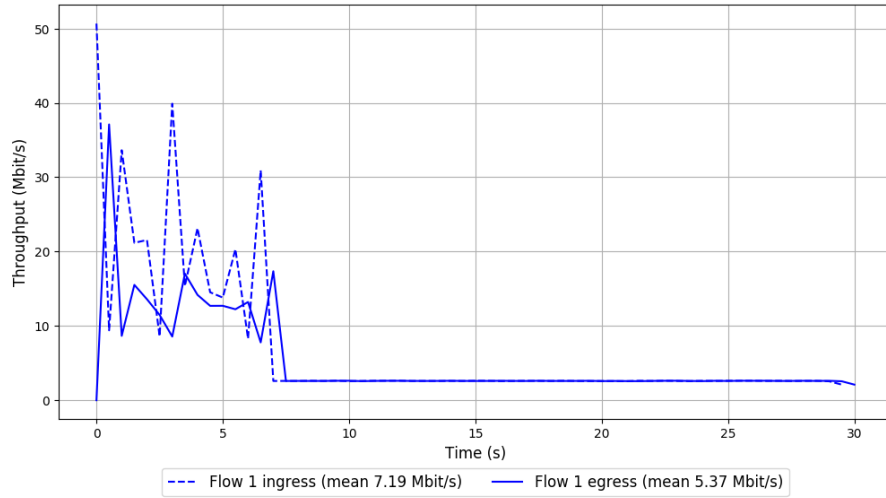
-- Flow 1:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 1.074 ms

Loss rate: 25.37%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-04-23 19:08:51

End at: 2019-04-23 19:09:21

Local clock offset: -2.934 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-04-23 21:12:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 8.976 ms

Loss rate: 0.35%

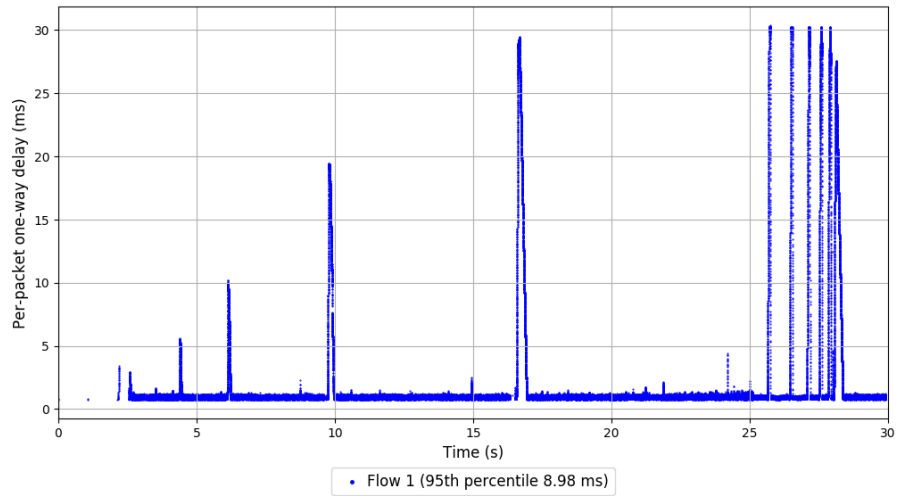
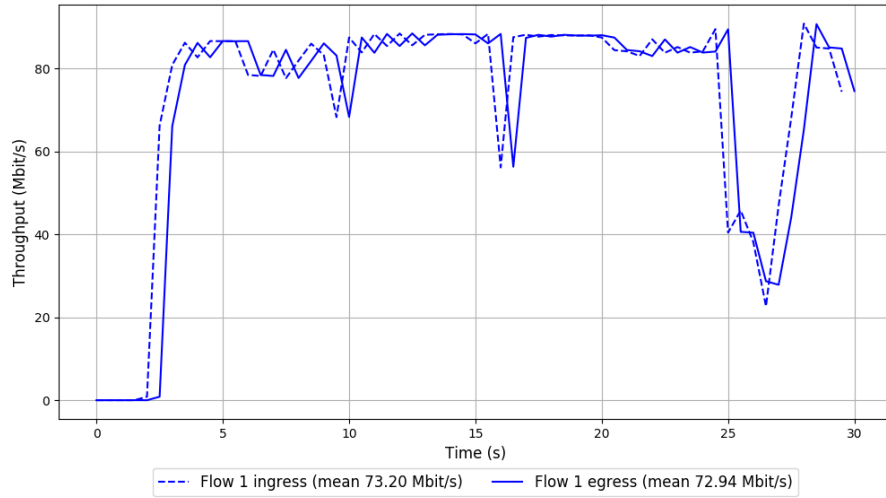
-- Flow 1:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 8.976 ms

Loss rate: 0.35%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-04-23 19:32:17

End at: 2019-04-23 19:32:47

Local clock offset: -3.413 ms

Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-04-23 21:12:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 9.147 ms

Loss rate: 0.25%

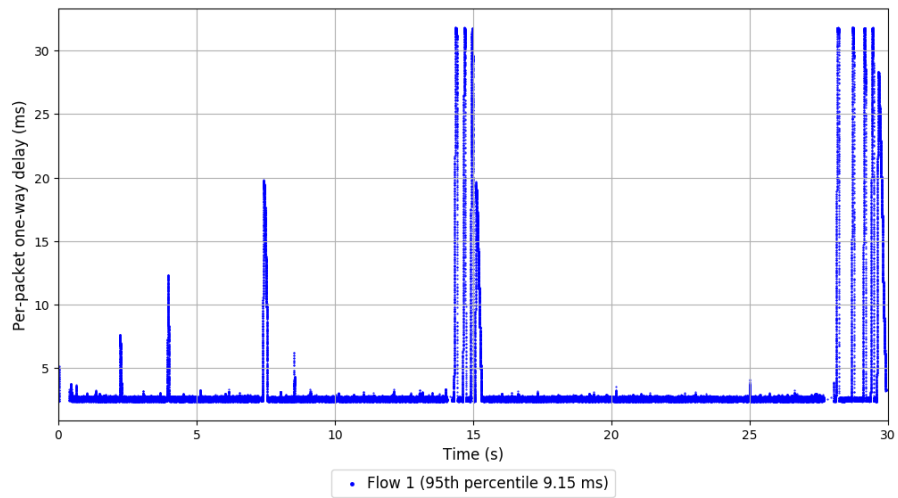
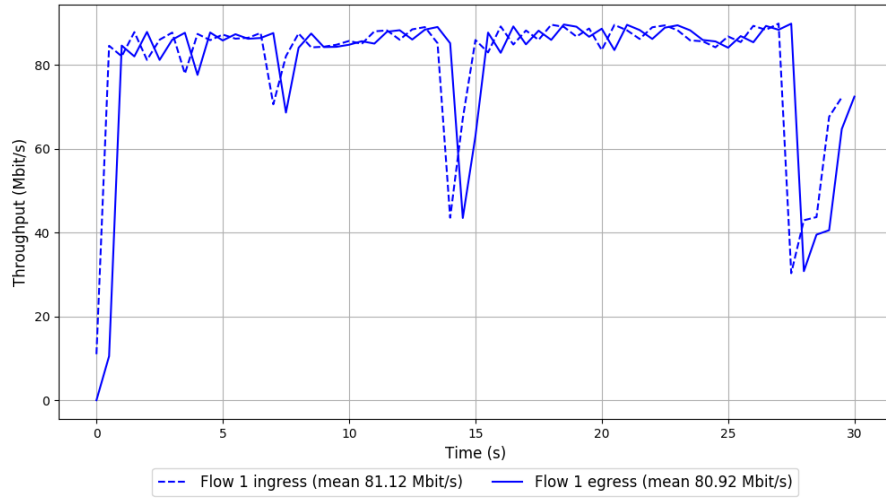
-- Flow 1:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 9.147 ms

Loss rate: 0.25%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-04-23 19:55:45

End at: 2019-04-23 19:56:15

Local clock offset: -3.391 ms

Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2019-04-23 21:12:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 3.477 ms

Loss rate: 0.23%

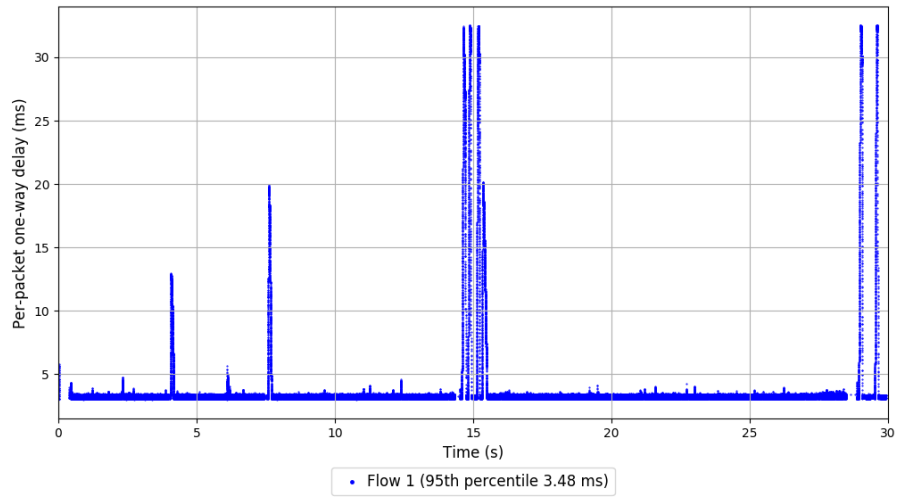
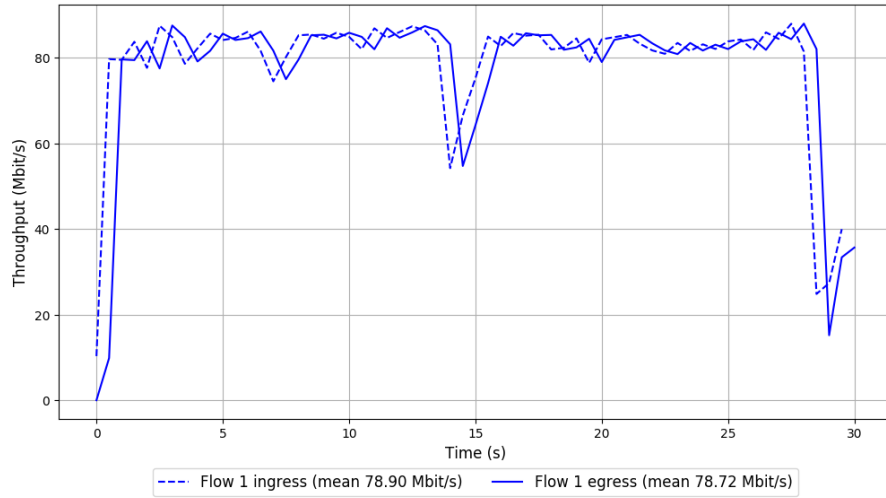
-- Flow 1:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 3.477 ms

Loss rate: 0.23%

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





Run 4: Statistics of QUIC Cubic

Start at: 2019-04-23 20:19:12

End at: 2019-04-23 20:19:42

Local clock offset: -2.725 ms

Remote clock offset: 0.335 ms

# Below is generated by plot.py at 2019-04-23 21:12:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 2.577 ms

Loss rate: 0.24%

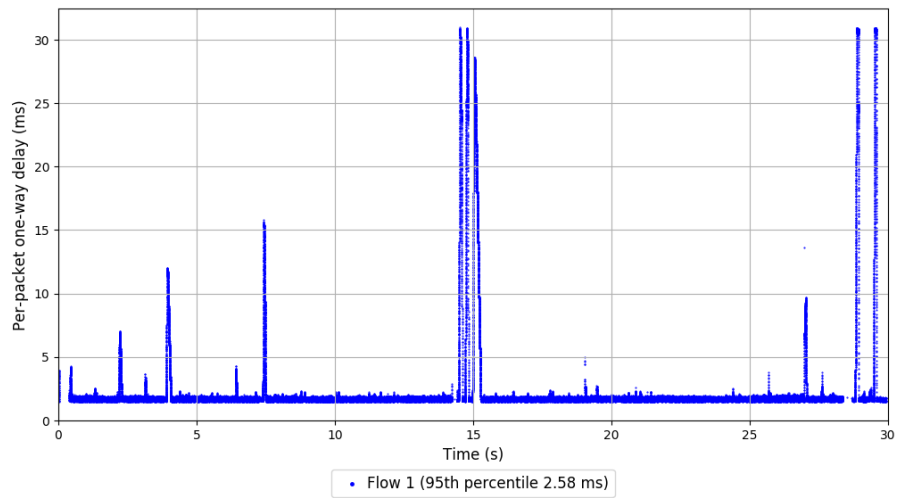
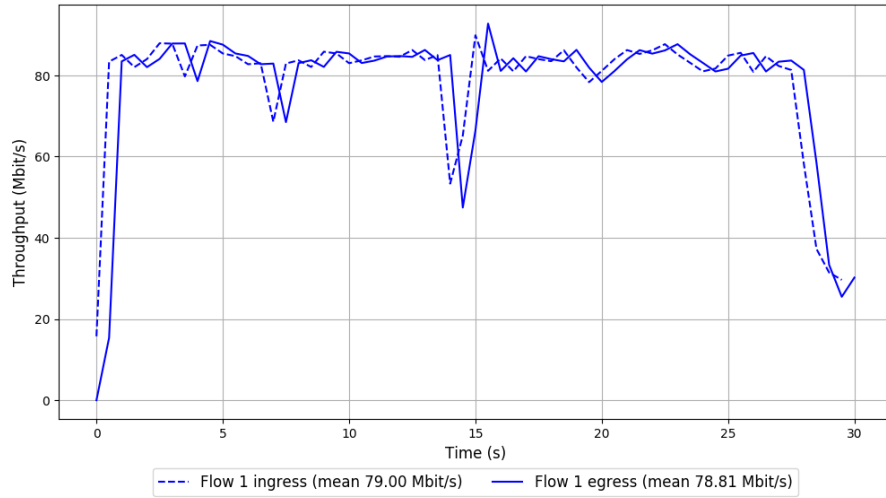
-- Flow 1:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 2.577 ms

Loss rate: 0.24%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-04-23 20:42:38

End at: 2019-04-23 20:43:08

Local clock offset: -1.605 ms

Remote clock offset: 0.49 ms

# Below is generated by plot.py at 2019-04-23 21:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 2.545 ms

Loss rate: 0.20%

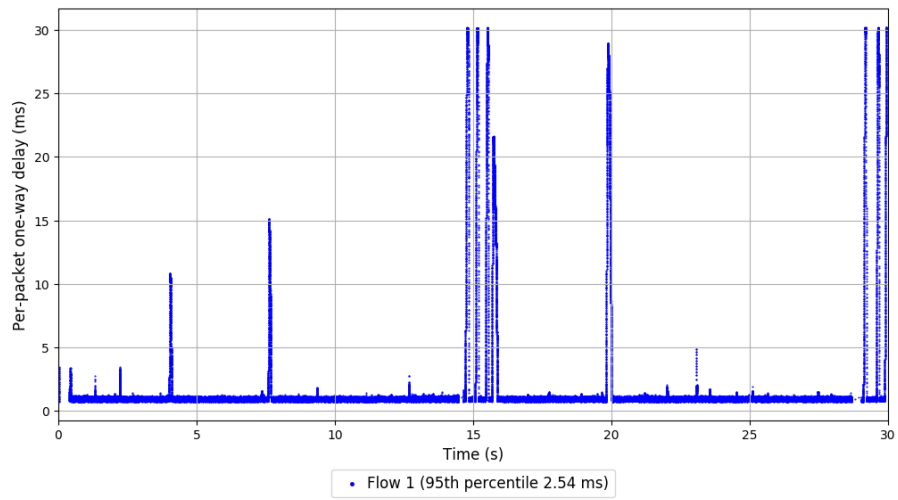
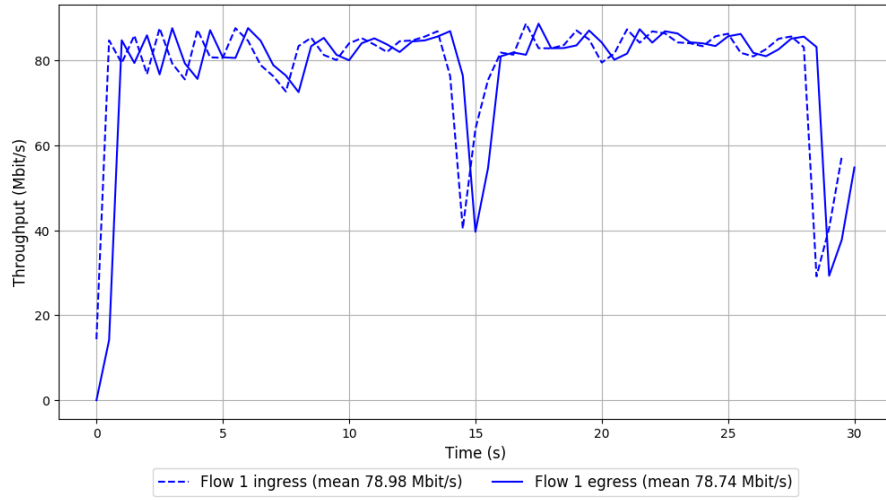
-- Flow 1:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 2.545 ms

Loss rate: 0.20%

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

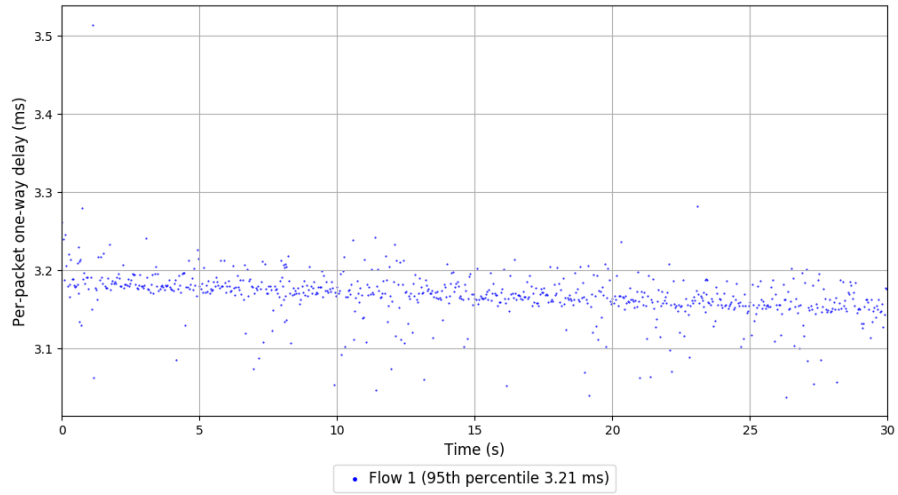
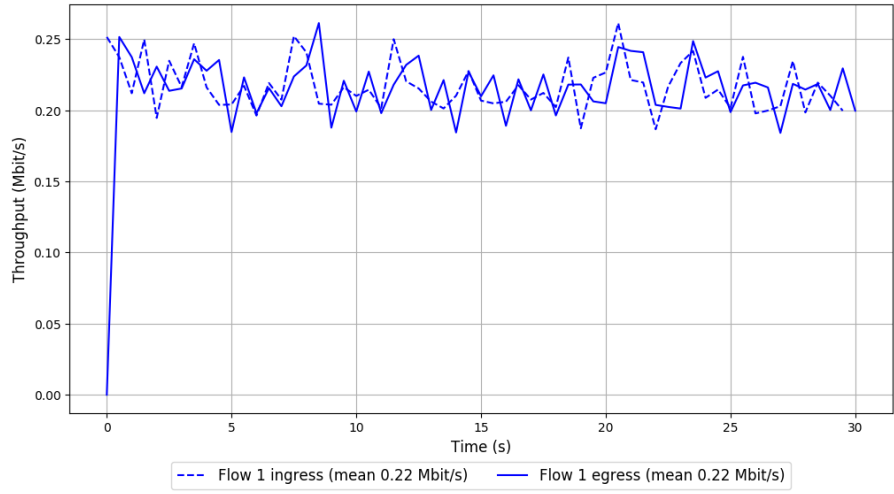


Run 1: Statistics of SCReAM

Start at: 2019-04-23 19:16:47  
End at: 2019-04-23 19:17:17  
Local clock offset: -3.685 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-04-23 21:12:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.208 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.208 ms  
Loss rate: 0.00%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-04-23 19:40:15

End at: 2019-04-23 19:40:45

Local clock offset: -3.446 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-04-23 21:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.487 ms

Loss rate: 0.00%

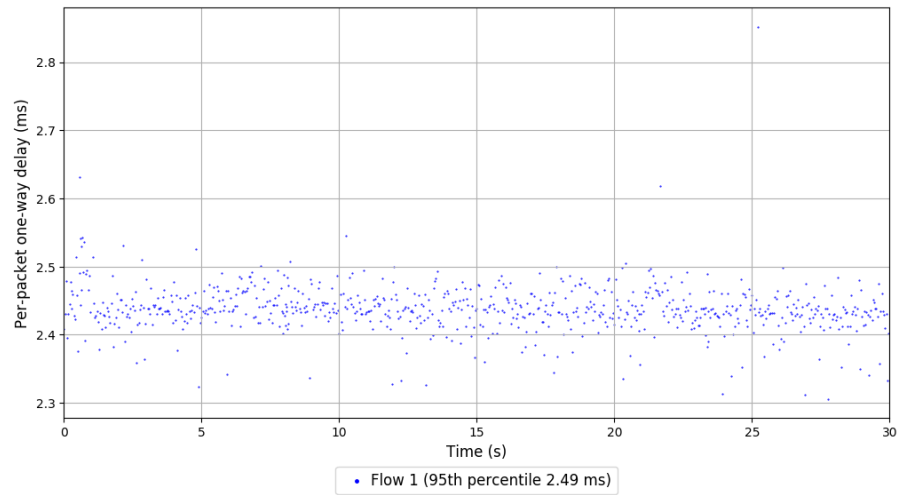
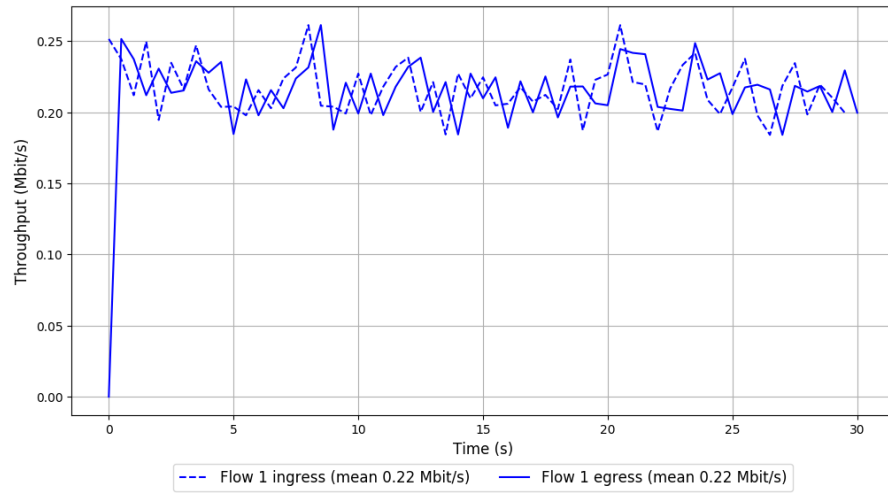
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.487 ms

Loss rate: 0.00%

## Run 2: Report of SCReAM — Data Link





Run 3: Statistics of SCReAM

Start at: 2019-04-23 20:03:41

End at: 2019-04-23 20:04:11

Local clock offset: -2.333 ms

Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2019-04-23 21:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.927 ms

Loss rate: 0.00%

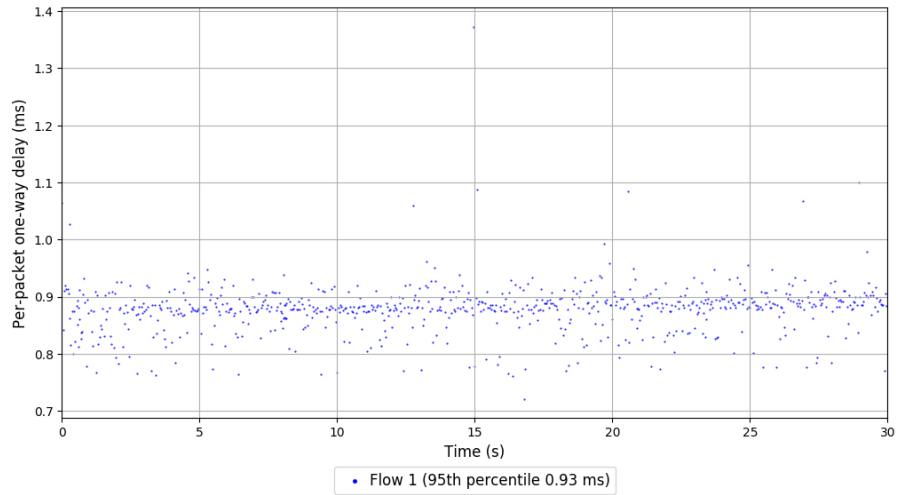
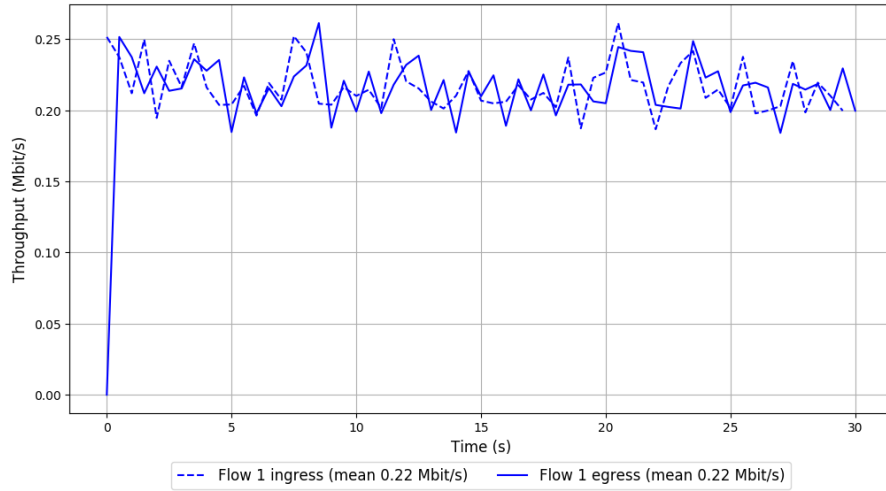
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.927 ms

Loss rate: 0.00%

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



Run 4: Statistics of SCReAM

Start at: 2019-04-23 20:27:08

End at: 2019-04-23 20:27:38

Local clock offset: -2.577 ms

Remote clock offset: 0.47 ms

# Below is generated by plot.py at 2019-04-23 21:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.742 ms

Loss rate: 0.00%

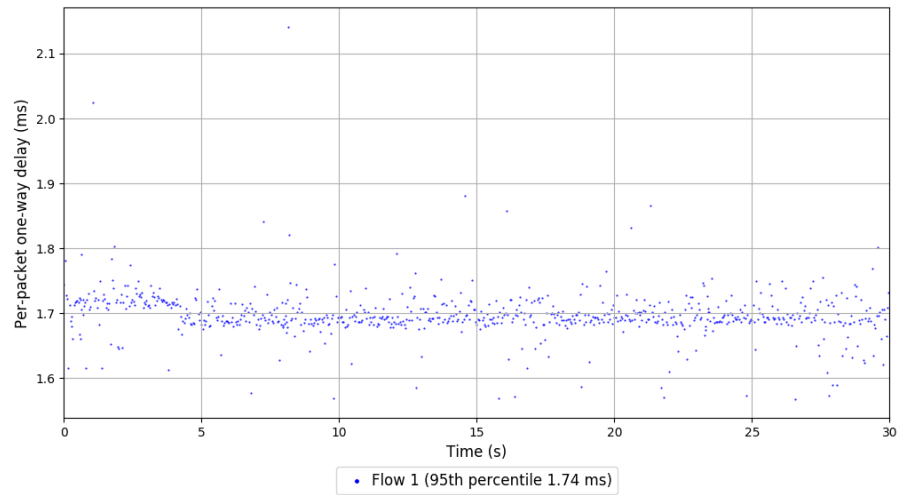
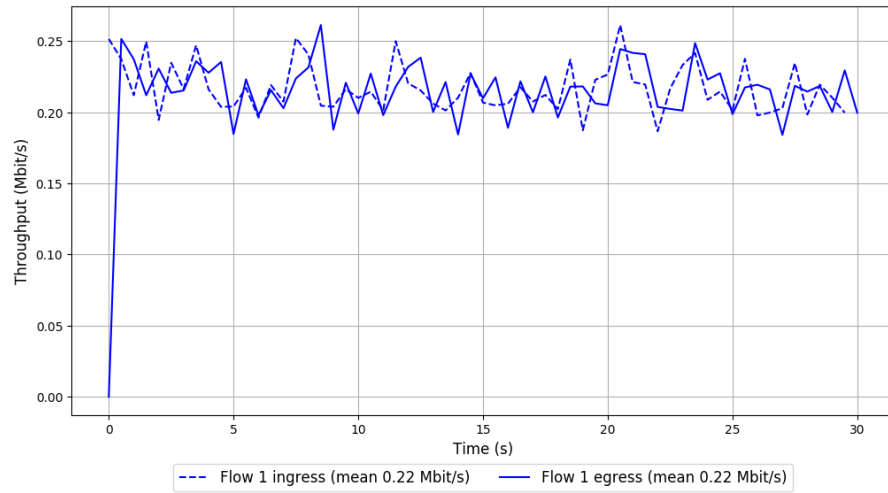
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.742 ms

Loss rate: 0.00%

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



Run 5: Statistics of SCReAM

Start at: 2019-04-23 20:50:34

End at: 2019-04-23 20:51:04

Local clock offset: -1.965 ms

Remote clock offset: 0.667 ms

# Below is generated by plot.py at 2019-04-23 21:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.782 ms

Loss rate: 0.00%

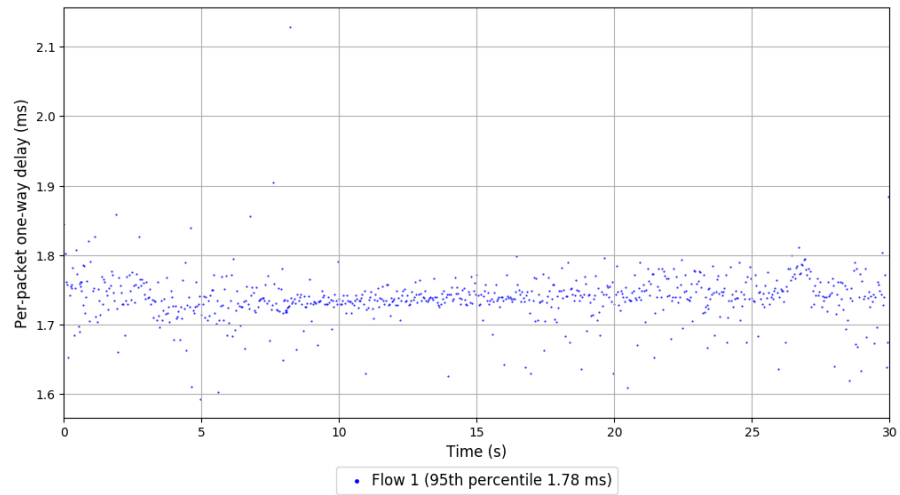
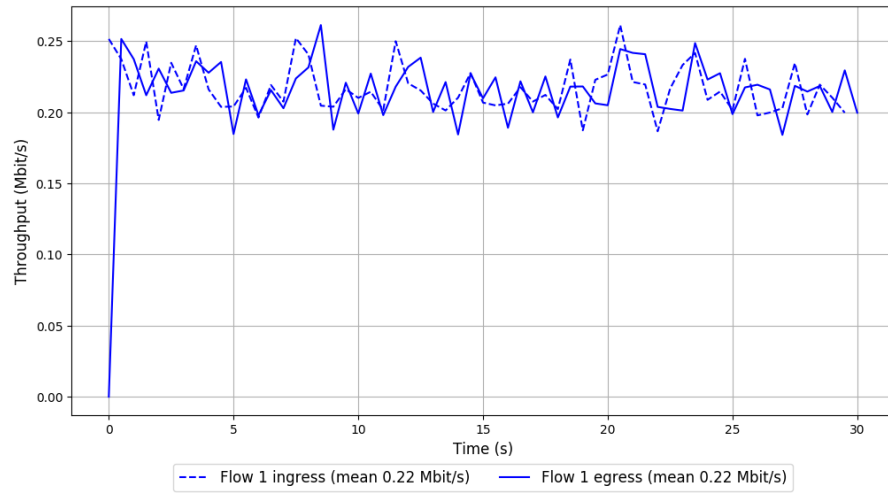
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.782 ms

Loss rate: 0.00%

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

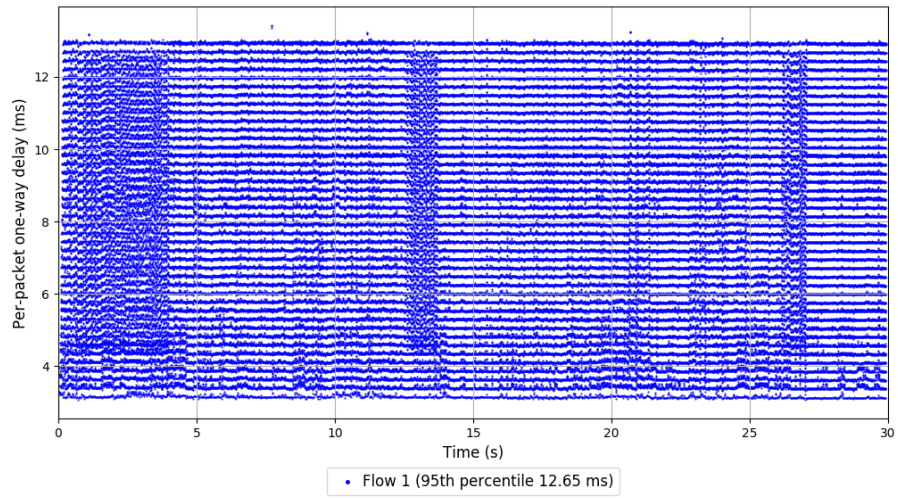
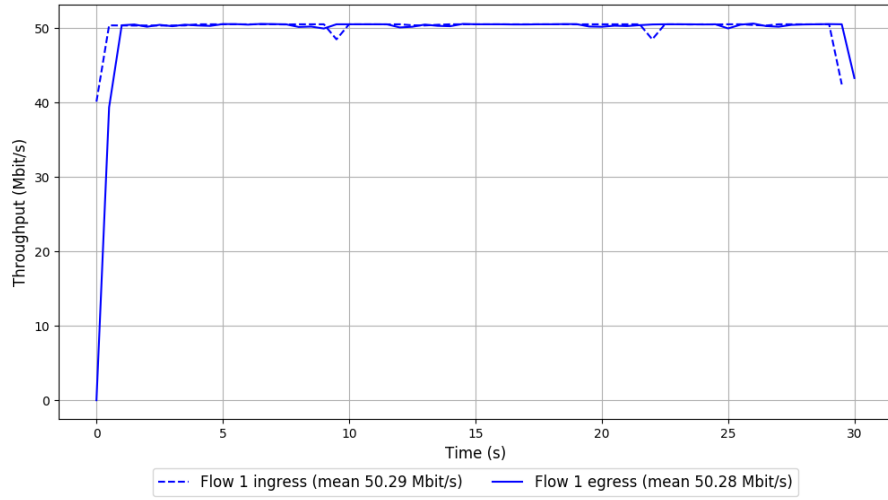


Run 1: Statistics of Sprout

Start at: 2019-04-23 19:21:09  
End at: 2019-04-23 19:21:39  
Local clock offset: -3.891 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-04-23 21:12:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.28 Mbit/s  
95th percentile per-packet one-way delay: 12.649 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.28 Mbit/s  
95th percentile per-packet one-way delay: 12.649 ms  
Loss rate: 0.00%

# Run 1: Report of Sprout — Data Link





Run 2: Statistics of Sprout

Start at: 2019-04-23 19:44:37

End at: 2019-04-23 19:45:07

Local clock offset: -4.183 ms

Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2019-04-23 21:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 12.633 ms

Loss rate: 0.00%

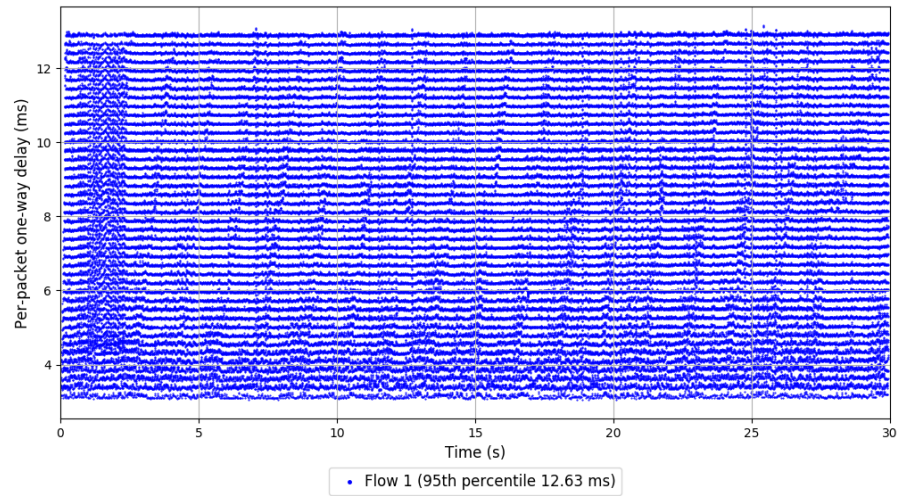
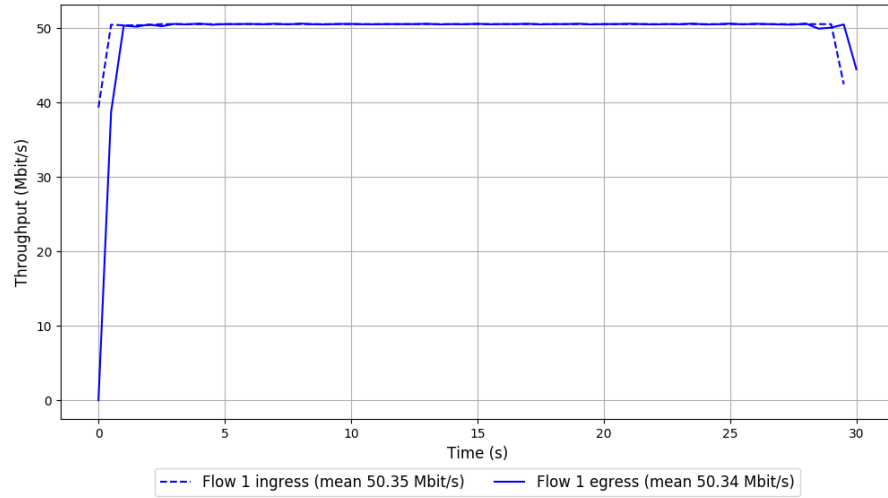
-- Flow 1:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 12.633 ms

Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-04-23 20:08:04

End at: 2019-04-23 20:08:34

Local clock offset: -2.971 ms

Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2019-04-23 21:12:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.28 Mbit/s

95th percentile per-packet one-way delay: 12.707 ms

Loss rate: 0.00%

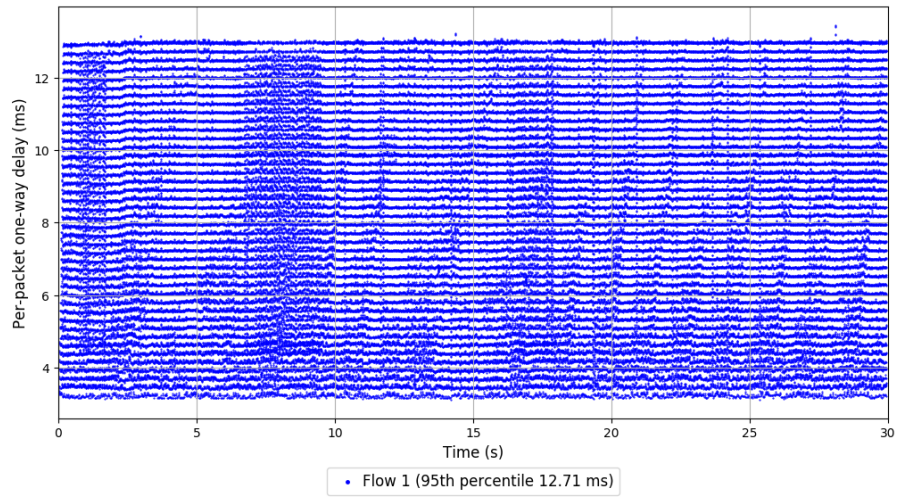
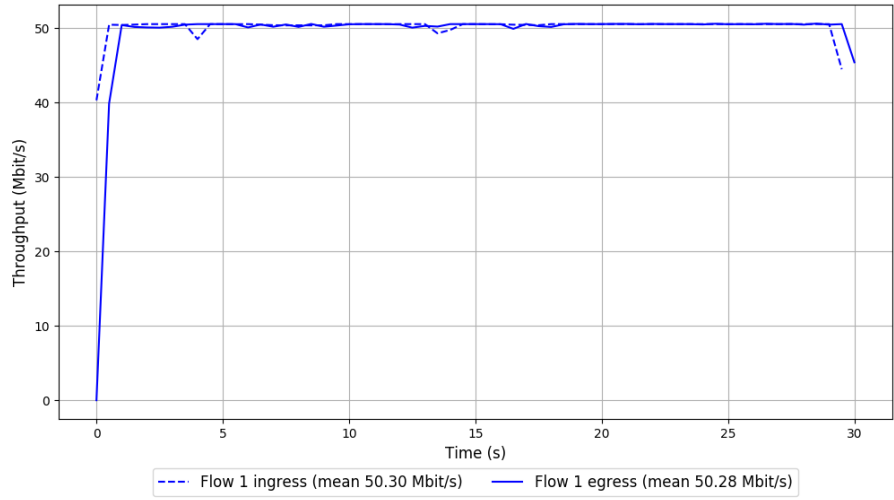
-- Flow 1:

Average throughput: 50.28 Mbit/s

95th percentile per-packet one-way delay: 12.707 ms

Loss rate: 0.00%

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



Run 4: Statistics of Sprout

Start at: 2019-04-23 20:31:30

End at: 2019-04-23 20:32:00

Local clock offset: -2.527 ms

Remote clock offset: 0.427 ms

# Below is generated by plot.py at 2019-04-23 21:12:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 11.094 ms

Loss rate: 0.00%

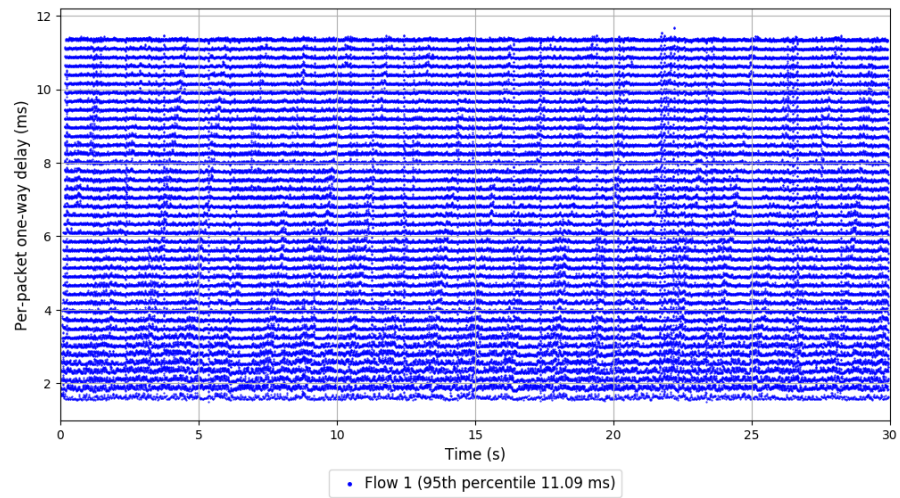
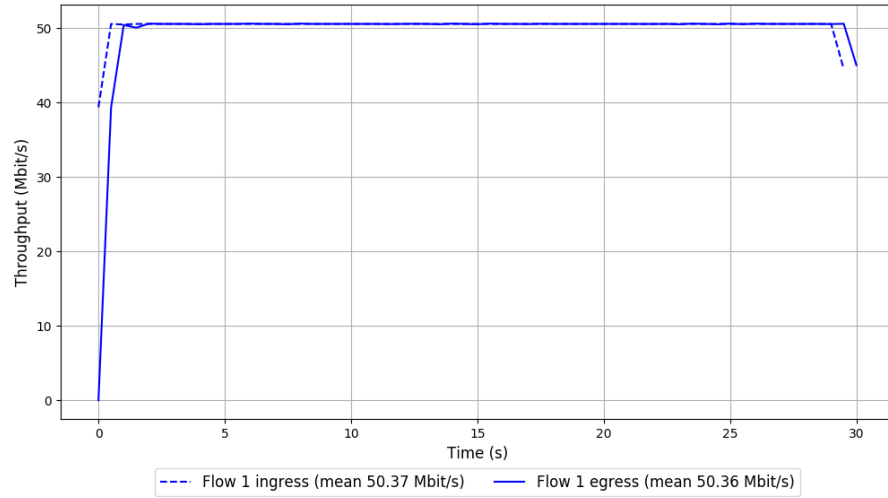
-- Flow 1:

Average throughput: 50.36 Mbit/s

95th percentile per-packet one-way delay: 11.094 ms

Loss rate: 0.00%

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



Run 5: Statistics of Sprout

Start at: 2019-04-23 20:54:57

End at: 2019-04-23 20:55:27

Local clock offset: -1.779 ms

Remote clock offset: 0.633 ms

# Below is generated by plot.py at 2019-04-23 21:12:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 12.574 ms

Loss rate: 0.00%

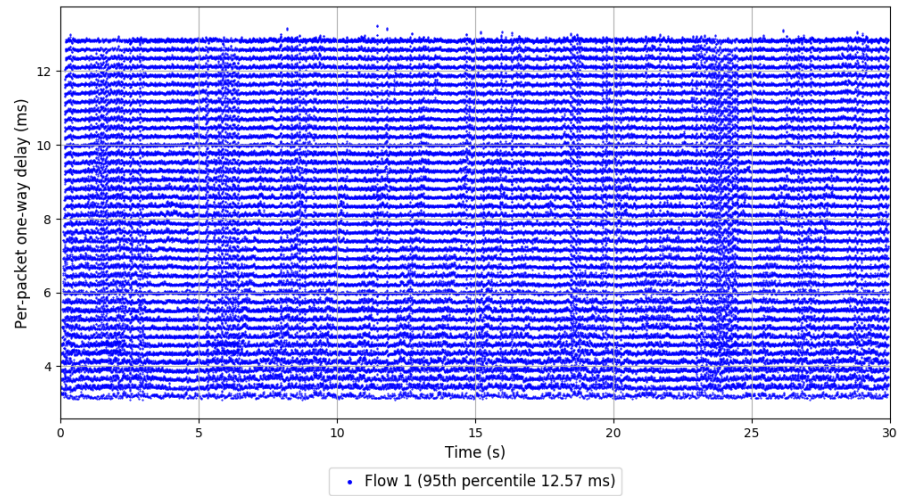
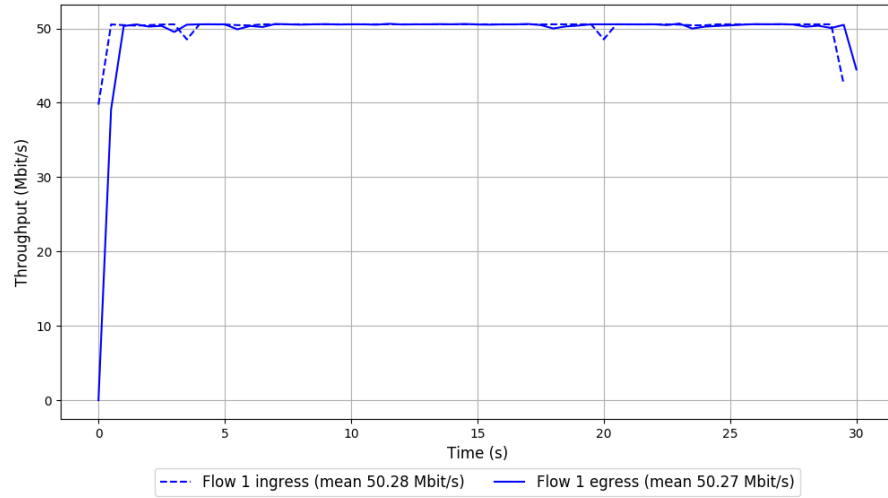
-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 12.574 ms

Loss rate: 0.00%

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





Run 1: Statistics of TaoVA-100x

Start at: 2019-04-23 19:25:38

End at: 2019-04-23 19:26:08

Local clock offset: -3.312 ms

Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-04-23 21:12:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 2.520 ms

Loss rate: 72.94%

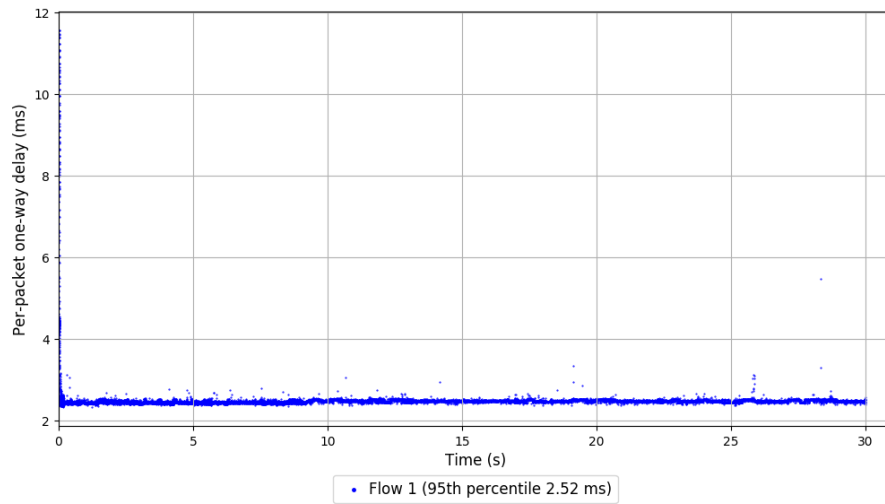
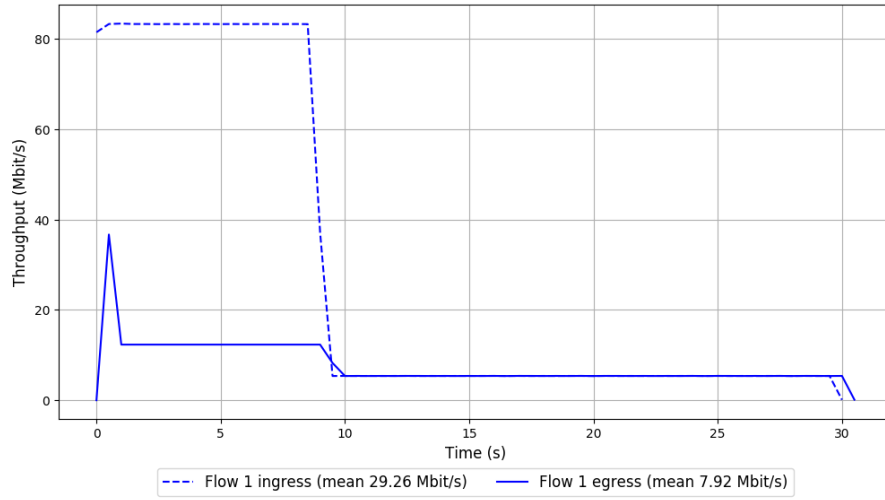
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 2.520 ms

Loss rate: 72.94%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-04-23 19:49:06

End at: 2019-04-23 19:49:36

Local clock offset: -3.029 ms

Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2019-04-23 21:12:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 82.93%

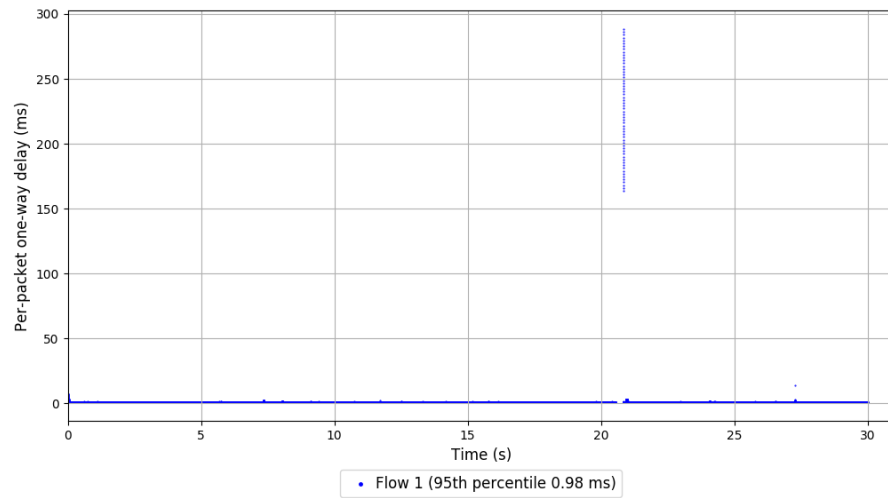
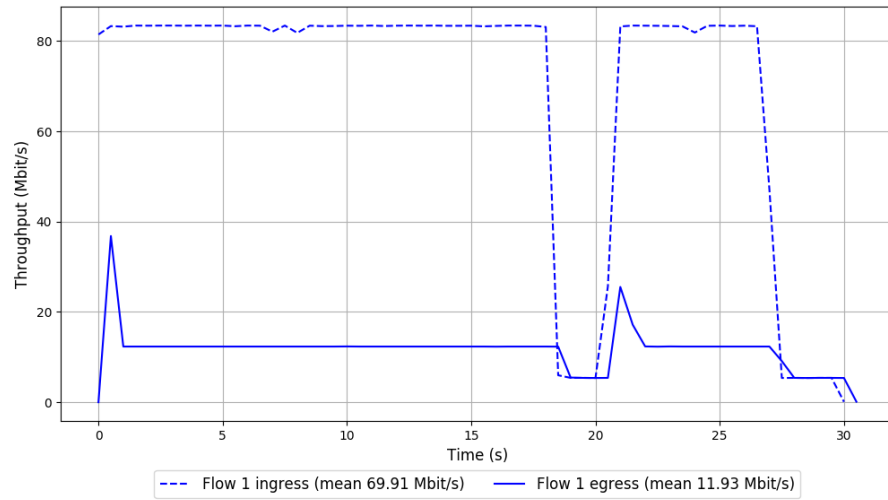
-- Flow 1:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 82.93%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-04-23 20:12:33

End at: 2019-04-23 20:13:03

Local clock offset: -2.095 ms

Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2019-04-23 21:12:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 2.404 ms

Loss rate: 61.64%

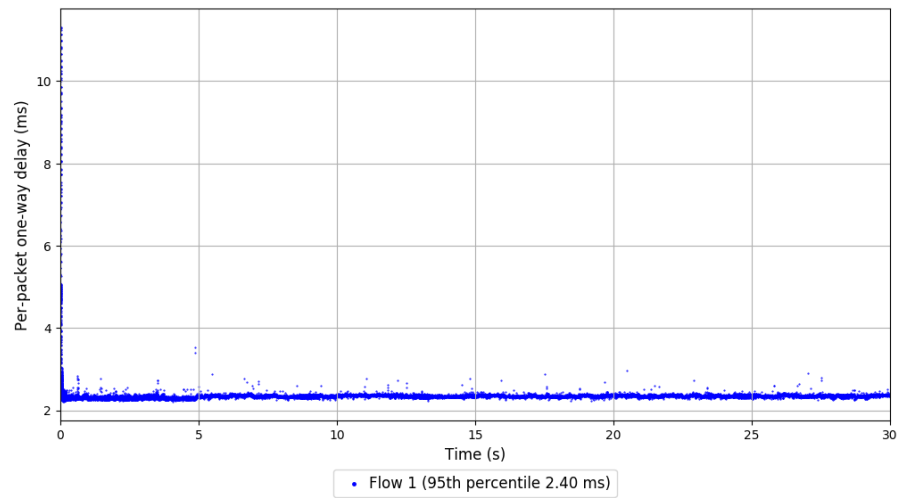
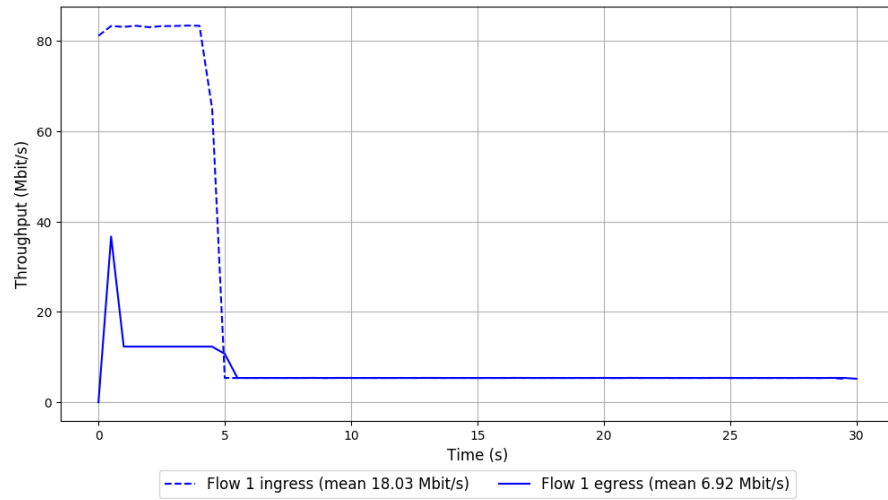
-- Flow 1:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 2.404 ms

Loss rate: 61.64%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-04-23 20:36:00

End at: 2019-04-23 20:36:30

Local clock offset: -2.412 ms

Remote clock offset: 0.532 ms

# Below is generated by plot.py at 2019-04-23 21:12:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 3.276 ms

Loss rate: 72.95%

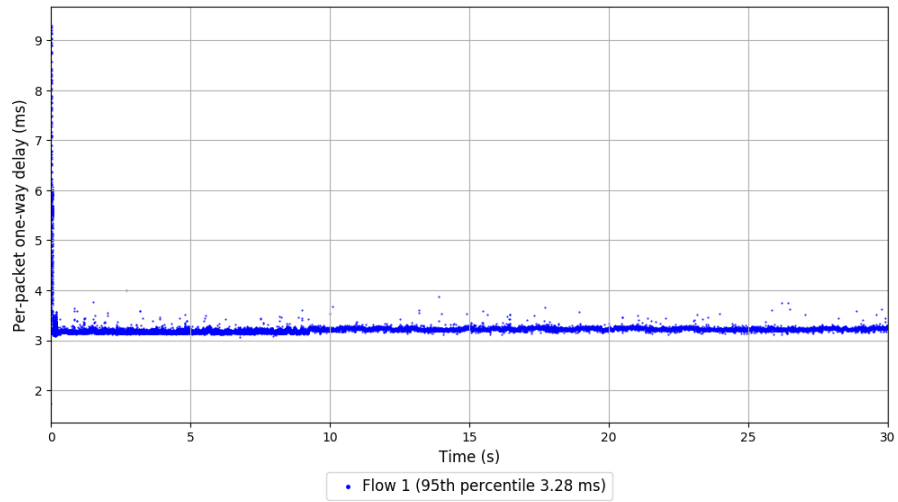
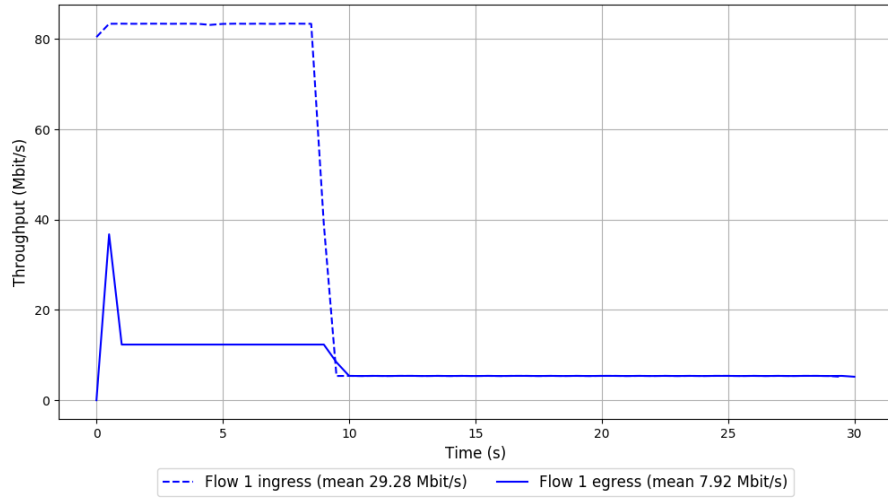
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 3.276 ms

Loss rate: 72.95%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-04-23 20:59:26

End at: 2019-04-23 20:59:56

Local clock offset: -1.609 ms

Remote clock offset: 0.648 ms

# Below is generated by plot.py at 2019-04-23 21:12:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 3.220 ms

Loss rate: 72.94%

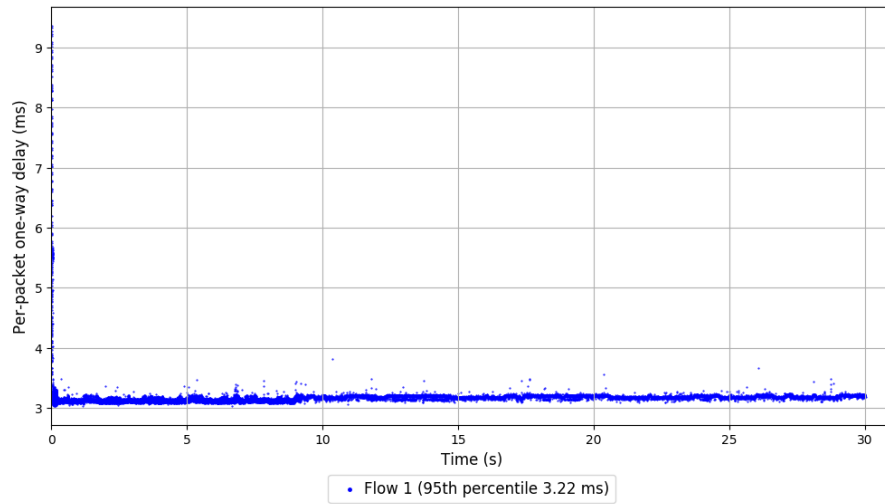
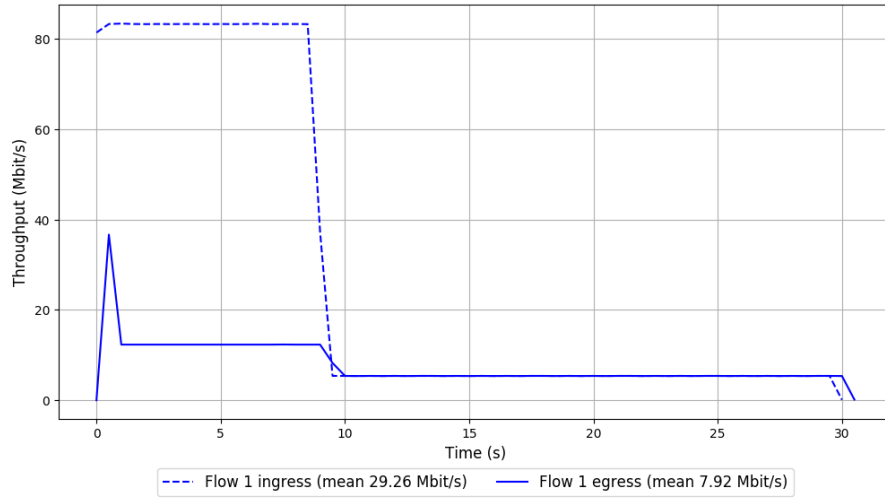
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 3.220 ms

Loss rate: 72.94%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-04-23 19:06:35  
End at: 2019-04-23 19:07:05  
Local clock offset: -3.672 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-04-23 21:13:47

# Datalink statistics

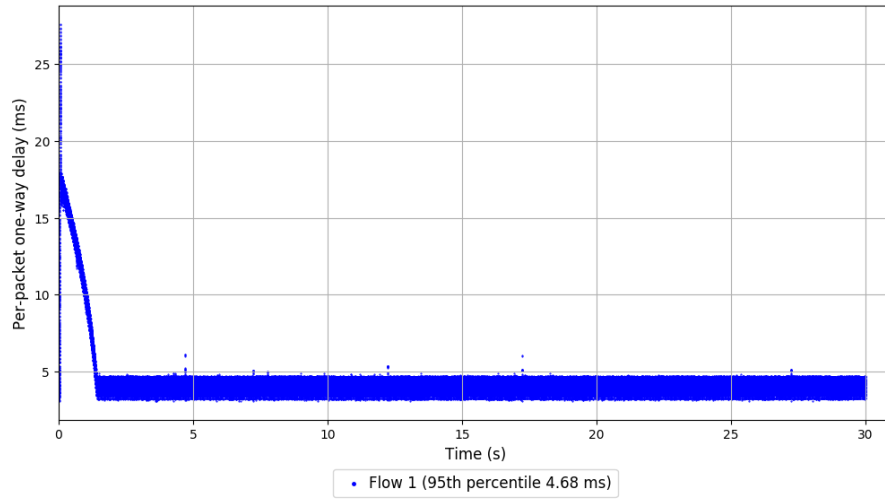
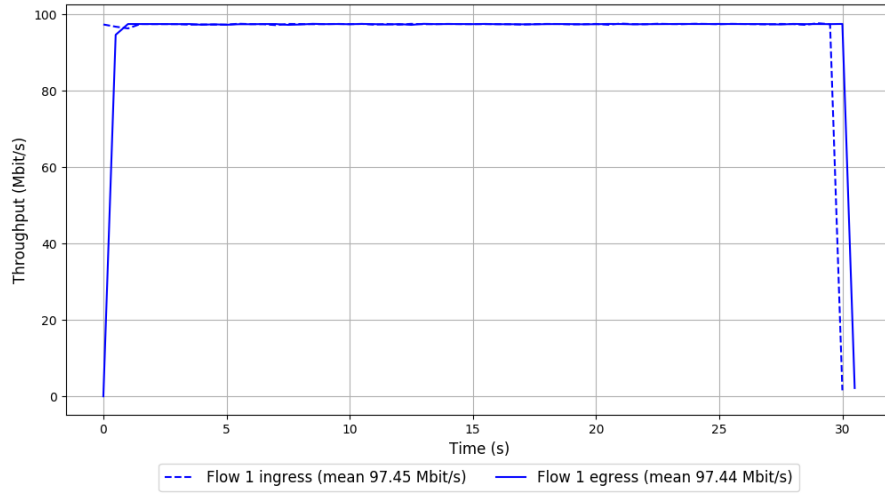
-- Total of 1 flow:

Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 4.682 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 4.682 ms  
Loss rate: 0.00%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-04-23 19:30:00  
End at: 2019-04-23 19:30:30  
Local clock offset: -4.071 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-04-23 21:13:47

# Datalink statistics

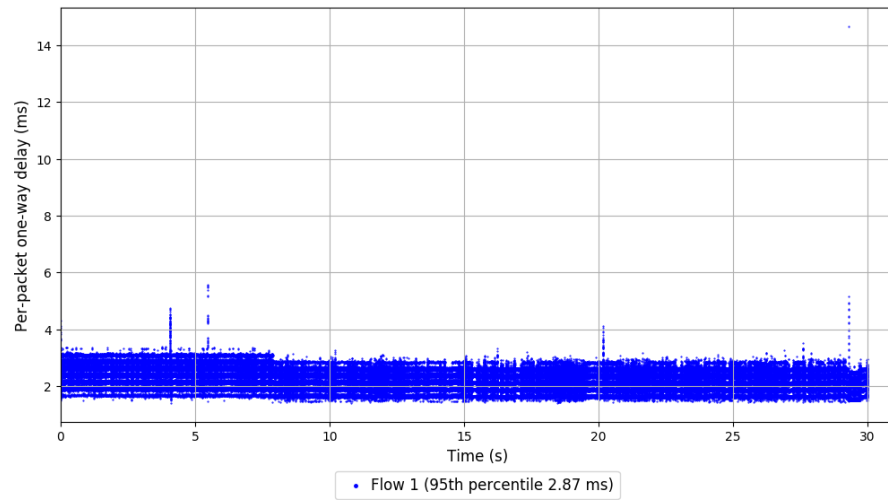
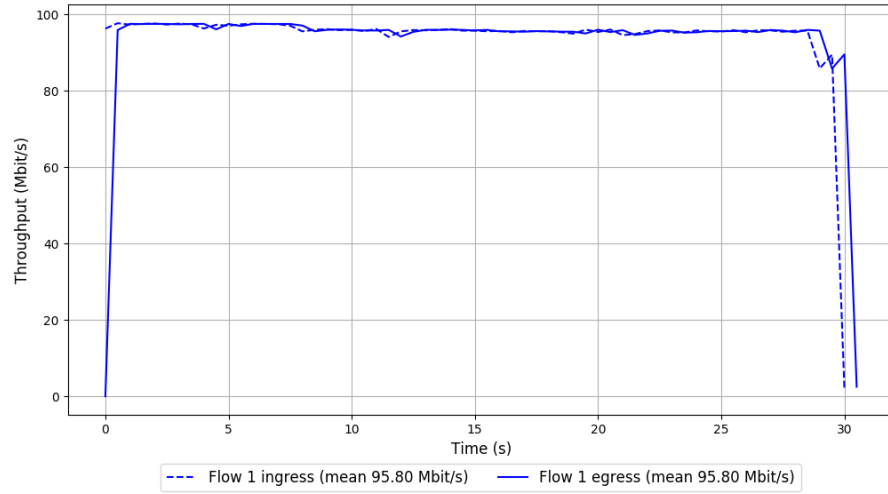
-- Total of 1 flow:

Average throughput: 95.80 Mbit/s  
95th percentile per-packet one-way delay: 2.865 ms  
Loss rate: 0.00%

-- Flow 1:

Average throughput: 95.80 Mbit/s  
95th percentile per-packet one-way delay: 2.865 ms  
Loss rate: 0.00%

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



Run 3: Statistics of TCP Vegas

Start at: 2019-04-23 19:53:29

End at: 2019-04-23 19:53:59

Local clock offset: -2.733 ms

Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2019-04-23 21:13:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 3.969 ms

Loss rate: 0.00%

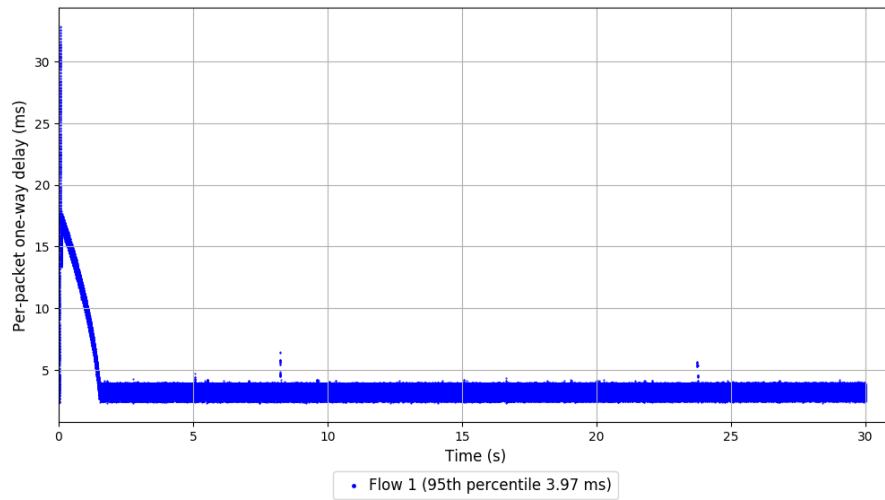
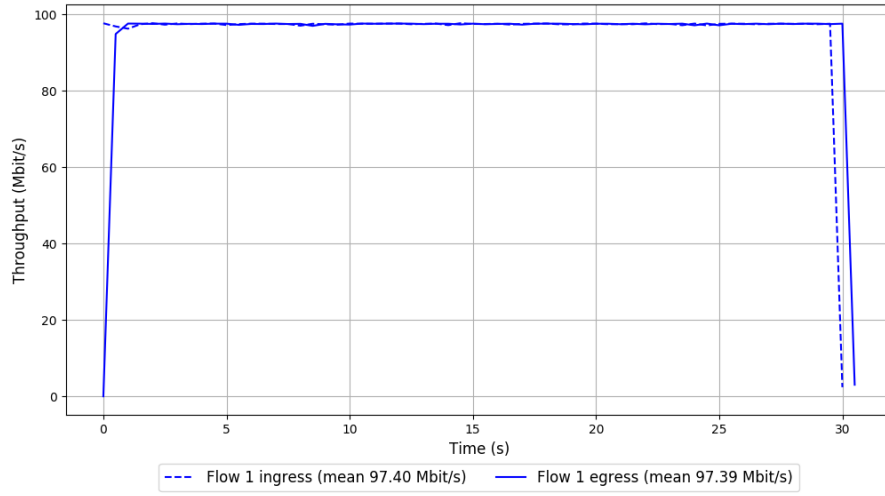
-- Flow 1:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 3.969 ms

Loss rate: 0.00%

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





Run 4: Statistics of TCP Vegas

Start at: 2019-04-23 20:16:56

End at: 2019-04-23 20:17:26

Local clock offset: -2.011 ms

Remote clock offset: 0.347 ms

# Below is generated by plot.py at 2019-04-23 21:13:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 3.924 ms

Loss rate: 0.00%

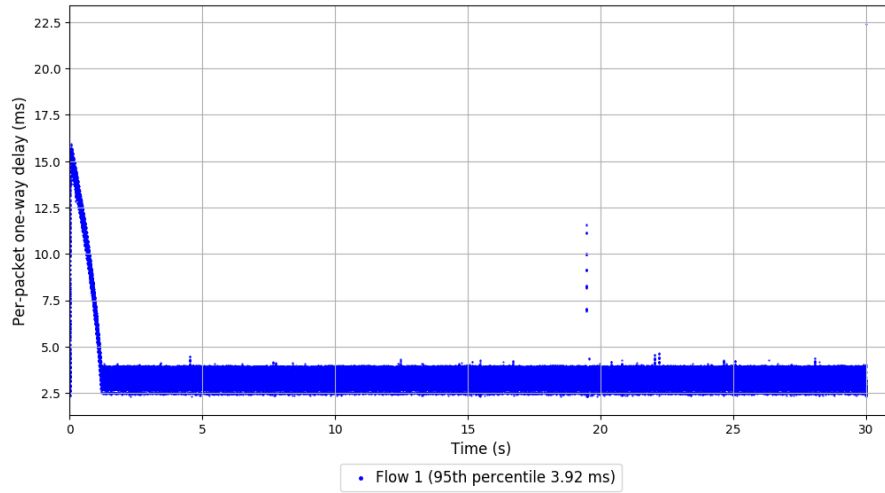
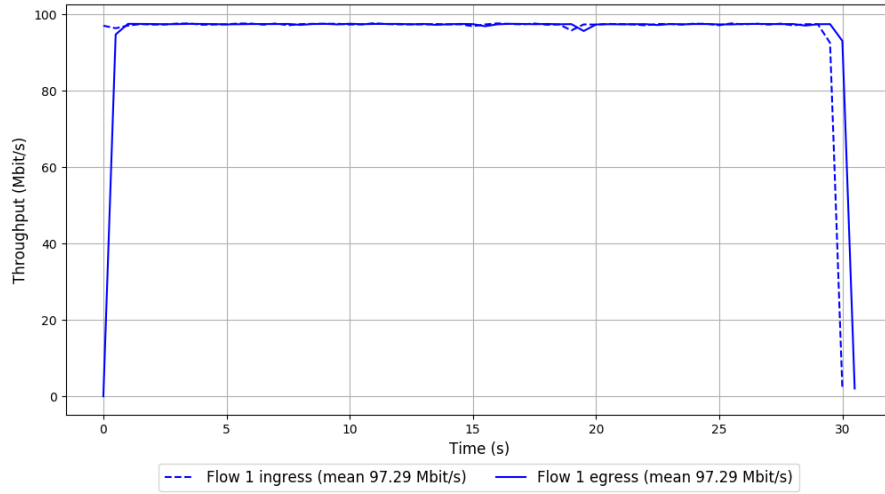
-- Flow 1:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 3.924 ms

Loss rate: 0.00%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-04-23 20:40:22

End at: 2019-04-23 20:40:52

Local clock offset: -2.376 ms

Remote clock offset: 0.459 ms

# Below is generated by plot.py at 2019-04-23 21:13:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 4.675 ms

Loss rate: 0.00%

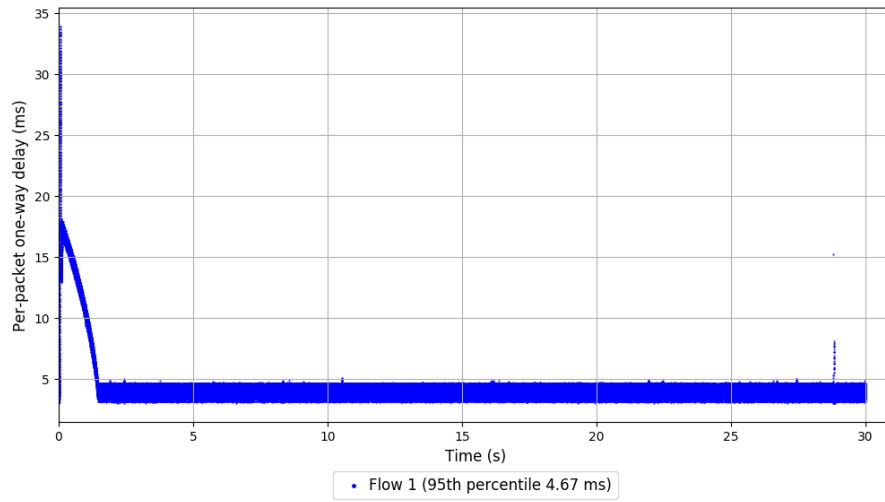
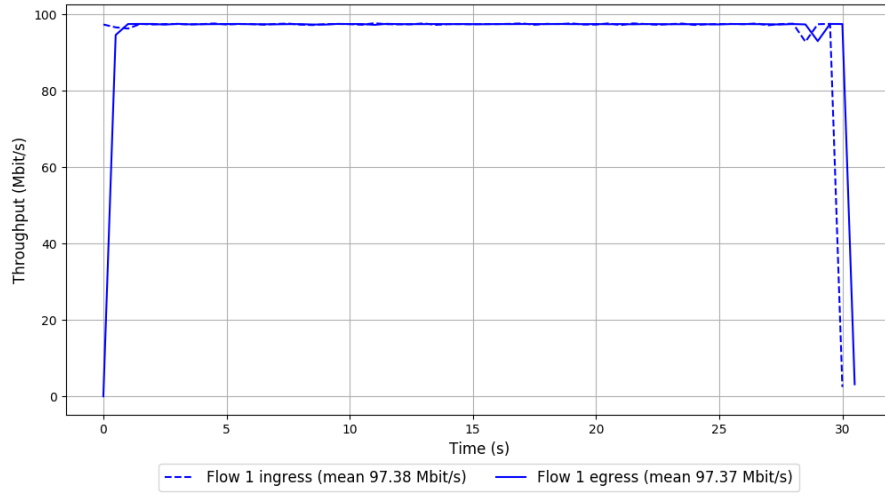
-- Flow 1:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 4.675 ms

Loss rate: 0.00%

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

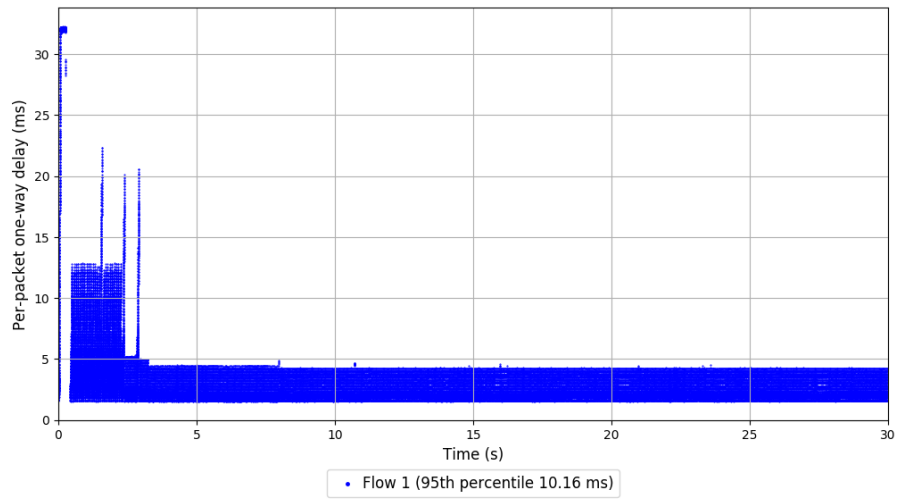
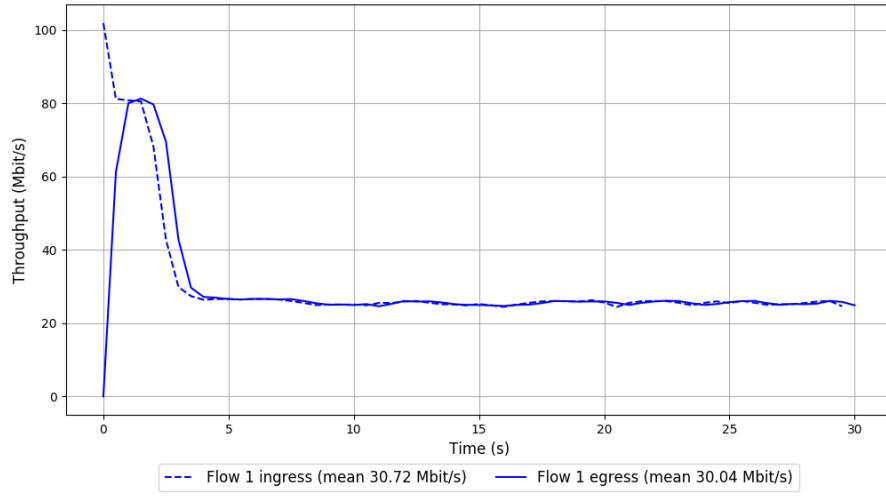


Run 1: Statistics of Verus

Start at: 2019-04-23 19:09:59  
End at: 2019-04-23 19:10:29  
Local clock offset: -3.638 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-04-23 21:13:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 30.04 Mbit/s  
95th percentile per-packet one-way delay: 10.159 ms  
Loss rate: 2.21%  
-- Flow 1:  
Average throughput: 30.04 Mbit/s  
95th percentile per-packet one-way delay: 10.159 ms  
Loss rate: 2.21%

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

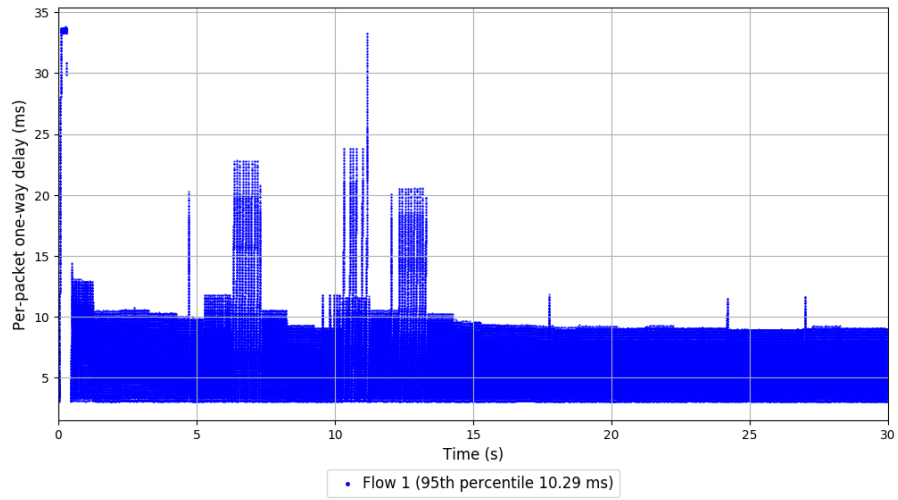
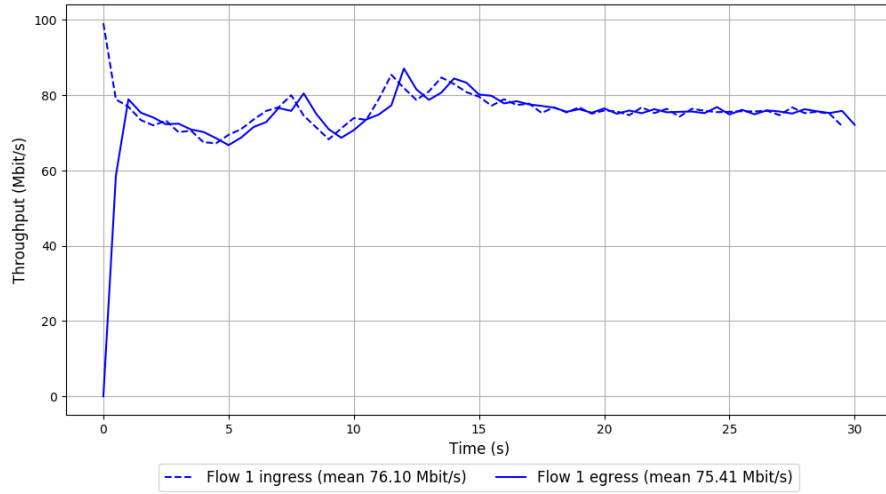


Run 2: Statistics of Verus

Start at: 2019-04-23 19:33:24  
End at: 2019-04-23 19:33:54  
Local clock offset: -4.126 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-04-23 21:13:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.41 Mbit/s  
95th percentile per-packet one-way delay: 10.290 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 75.41 Mbit/s  
95th percentile per-packet one-way delay: 10.290 ms  
Loss rate: 0.89%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-04-23 19:56:53

End at: 2019-04-23 19:57:23

Local clock offset: -2.543 ms

Remote clock offset: 0.243 ms

# Below is generated by plot.py at 2019-04-23 21:13:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 8.265 ms

Loss rate: 2.10%

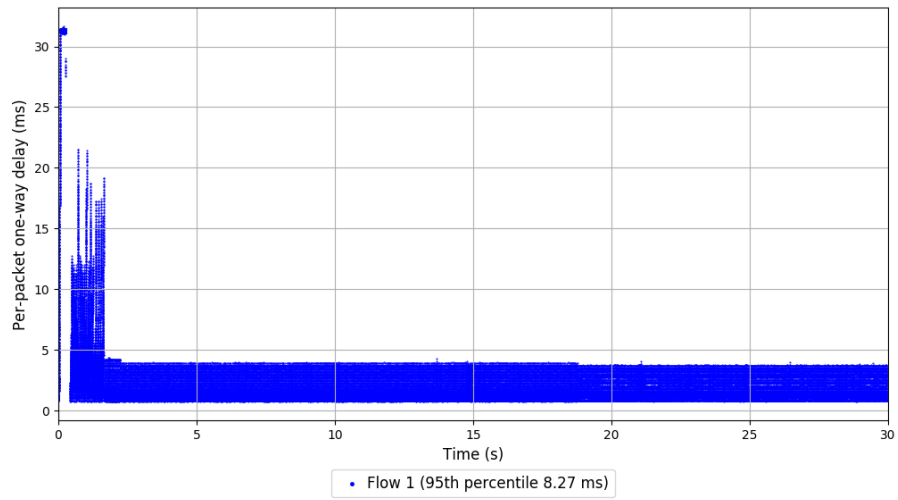
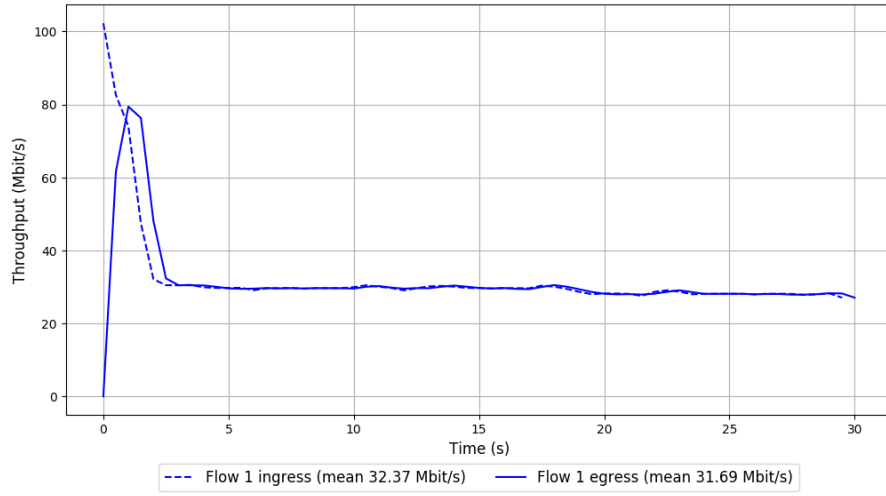
-- Flow 1:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 8.265 ms

Loss rate: 2.10%

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



Run 4: Statistics of Verus

Start at: 2019-04-23 20:20:20

End at: 2019-04-23 20:20:50

Local clock offset: -2.734 ms

Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2019-04-23 21:13:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 6.050 ms

Loss rate: 1.41%

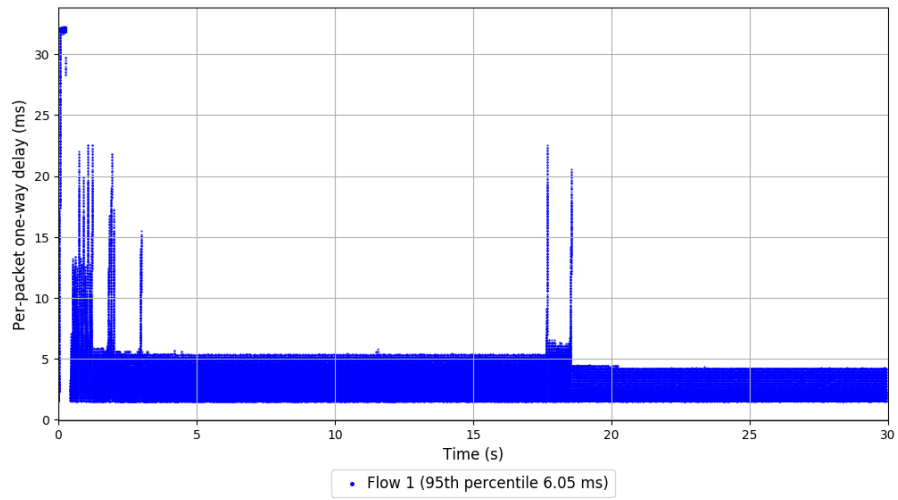
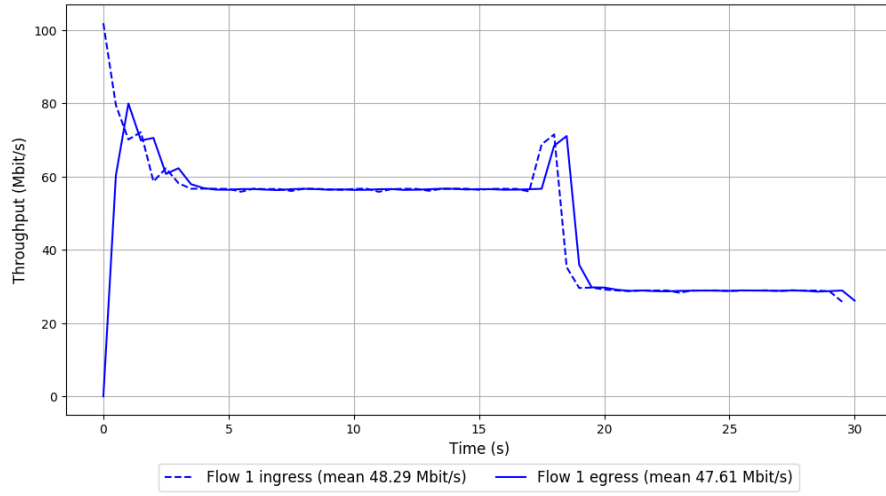
-- Flow 1:

Average throughput: 47.61 Mbit/s

95th percentile per-packet one-way delay: 6.050 ms

Loss rate: 1.41%

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



Run 5: Statistics of Verus

Start at: 2019-04-23 20:43:45

End at: 2019-04-23 20:44:16

Local clock offset: -1.533 ms

Remote clock offset: 0.599 ms

# Below is generated by plot.py at 2019-04-23 21:13:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 34.70 Mbit/s

95th percentile per-packet one-way delay: 8.876 ms

Loss rate: 1.92%

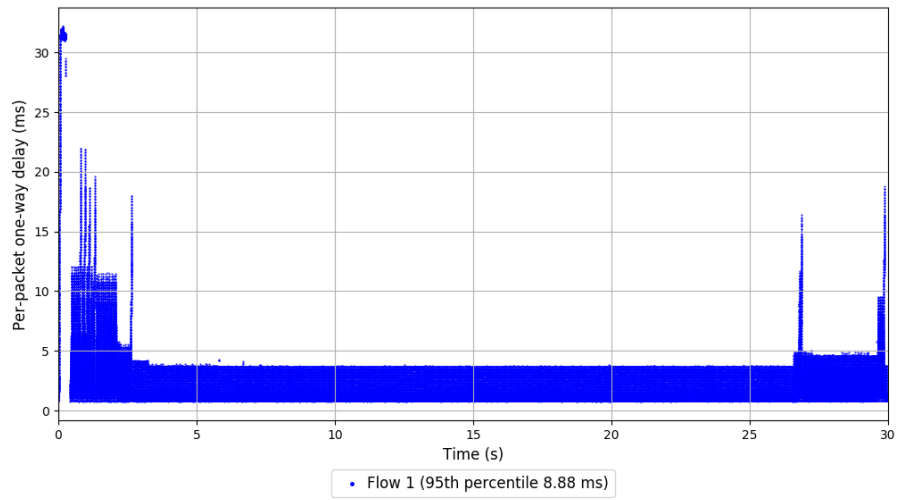
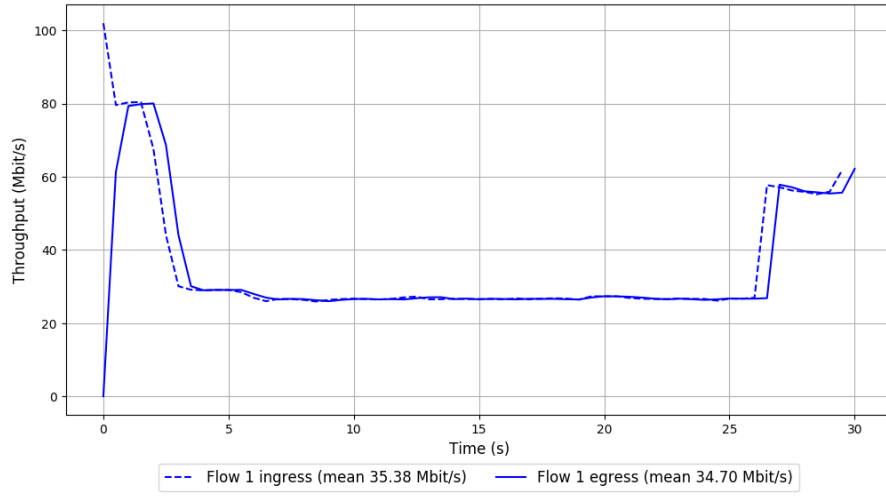
-- Flow 1:

Average throughput: 34.70 Mbit/s

95th percentile per-packet one-way delay: 8.876 ms

Loss rate: 1.92%

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



Run 1: Statistics of PCC-Vivace

Start at: 2019-04-23 19:11:05

End at: 2019-04-23 19:11:35

Local clock offset: -3.622 ms

Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-04-23 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 3.328 ms

Loss rate: 0.00%

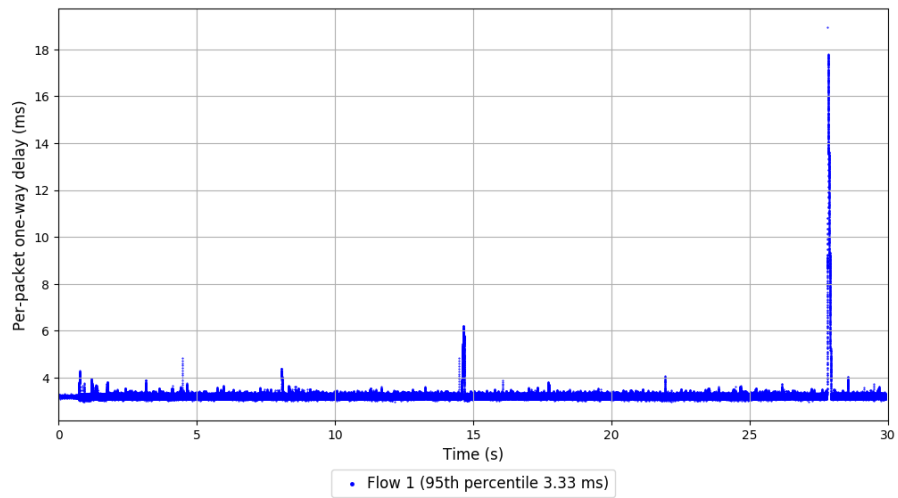
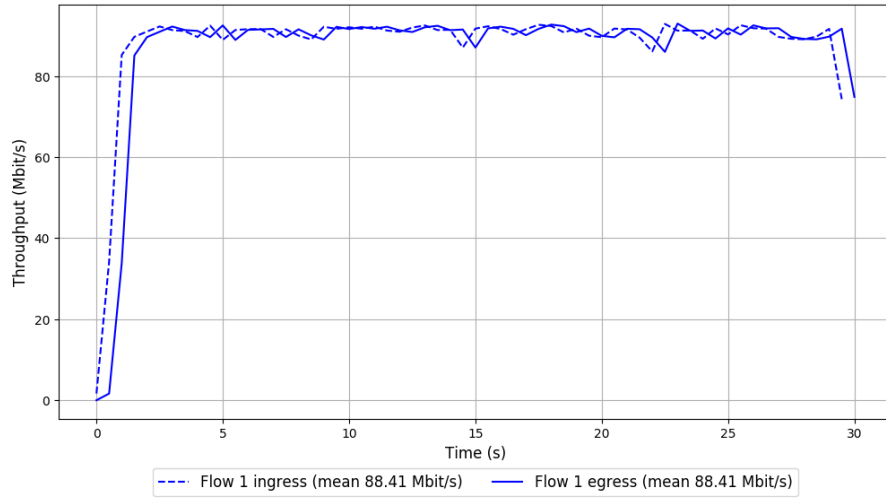
-- Flow 1:

Average throughput: 88.41 Mbit/s

95th percentile per-packet one-way delay: 3.328 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-04-23 19:34:33

End at: 2019-04-23 19:35:03

Local clock offset: -4.124 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-04-23 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 1.826 ms

Loss rate: 0.00%

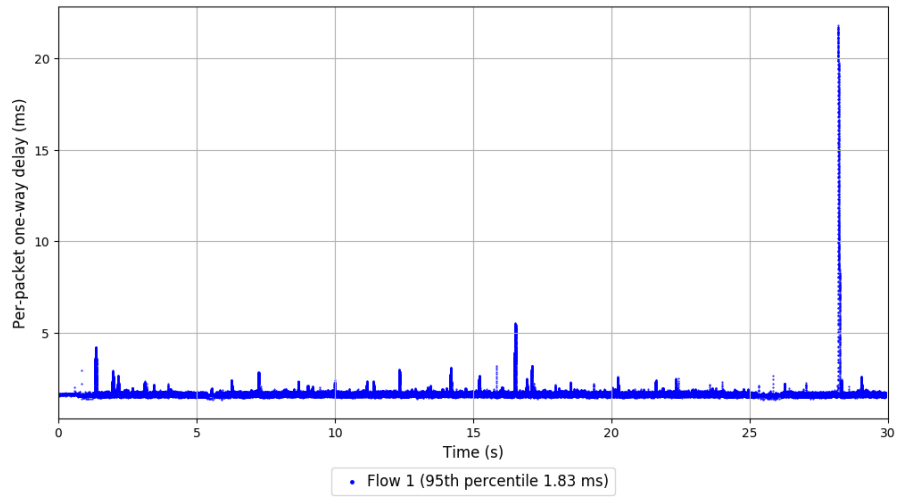
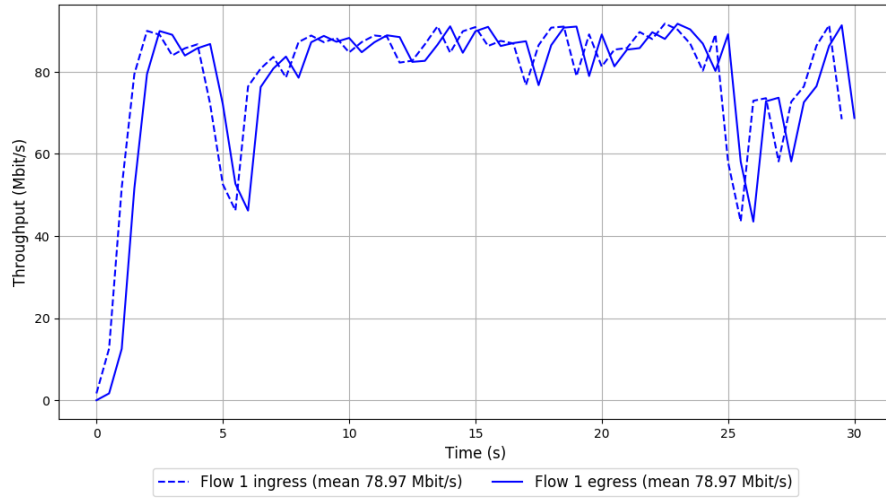
-- Flow 1:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 1.826 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-04-23 19:57:59

End at: 2019-04-23 19:58:29

Local clock offset: -3.293 ms

Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2019-04-23 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.62 Mbit/s

95th percentile per-packet one-way delay: 3.333 ms

Loss rate: 0.00%

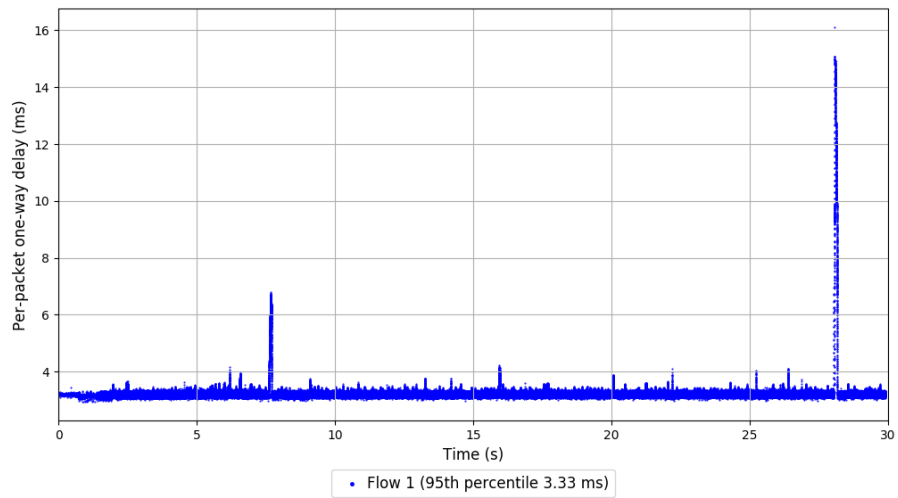
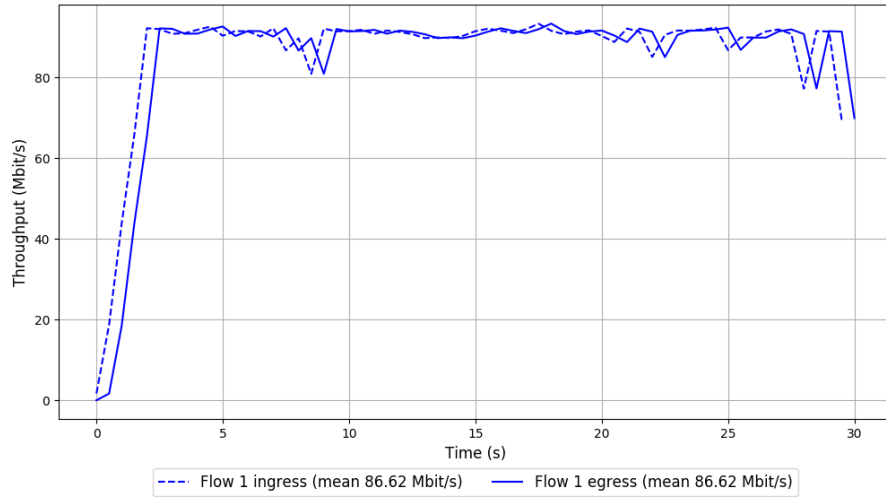
-- Flow 1:

Average throughput: 86.62 Mbit/s

95th percentile per-packet one-way delay: 3.333 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-04-23 20:21:26

End at: 2019-04-23 20:21:56

Local clock offset: -1.989 ms

Remote clock offset: 0.411 ms

# Below is generated by plot.py at 2019-04-23 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.58 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.00%

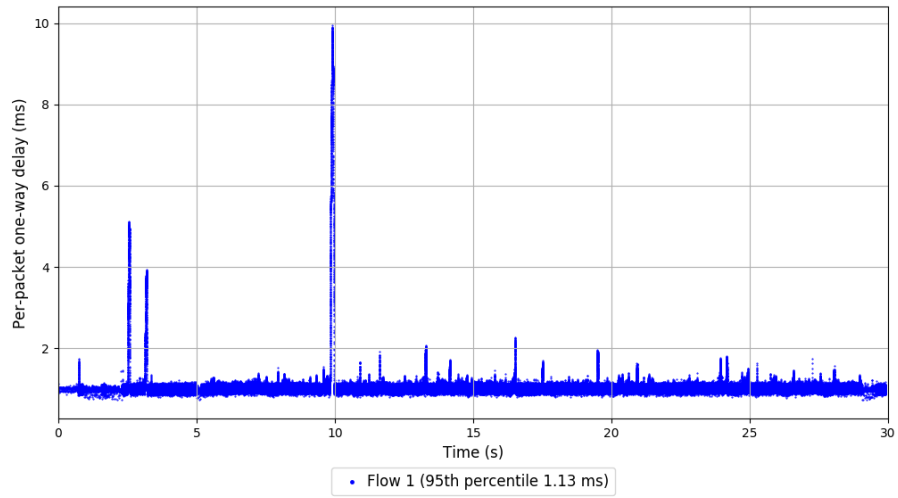
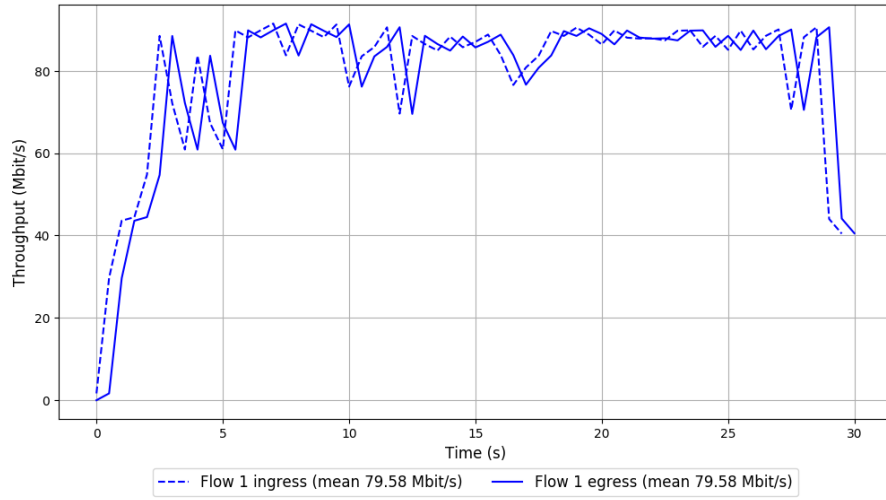
-- Flow 1:

Average throughput: 79.58 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-04-23 20:44:52

End at: 2019-04-23 20:45:22

Local clock offset: -1.575 ms

Remote clock offset: 0.599 ms

# Below is generated by plot.py at 2019-04-23 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.57 Mbit/s

95th percentile per-packet one-way delay: 1.150 ms

Loss rate: 0.00%

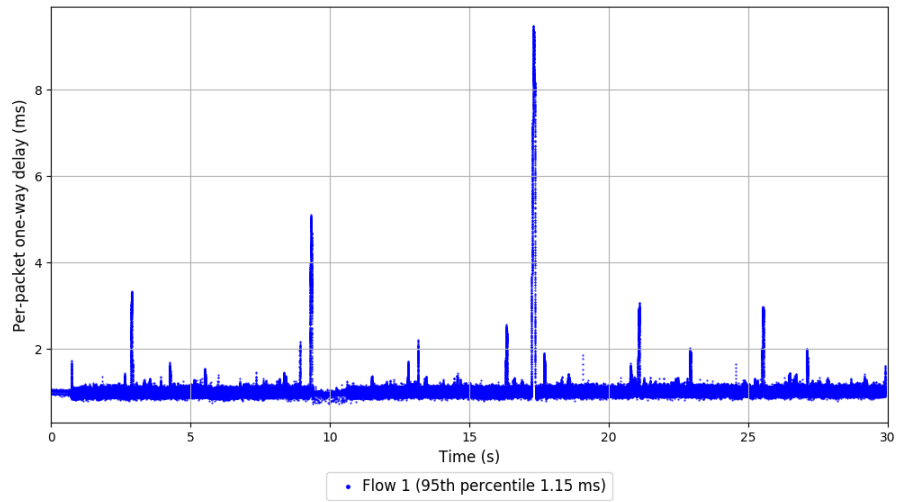
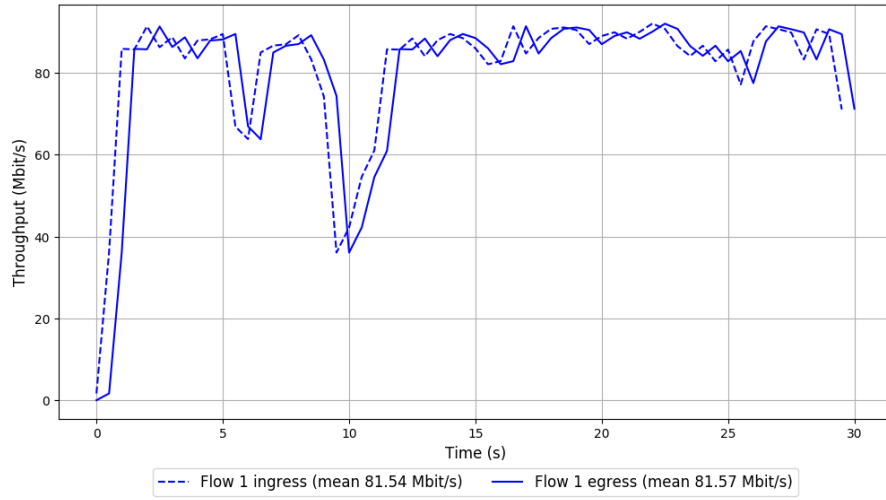
-- Flow 1:

Average throughput: 81.57 Mbit/s

95th percentile per-packet one-way delay: 1.150 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



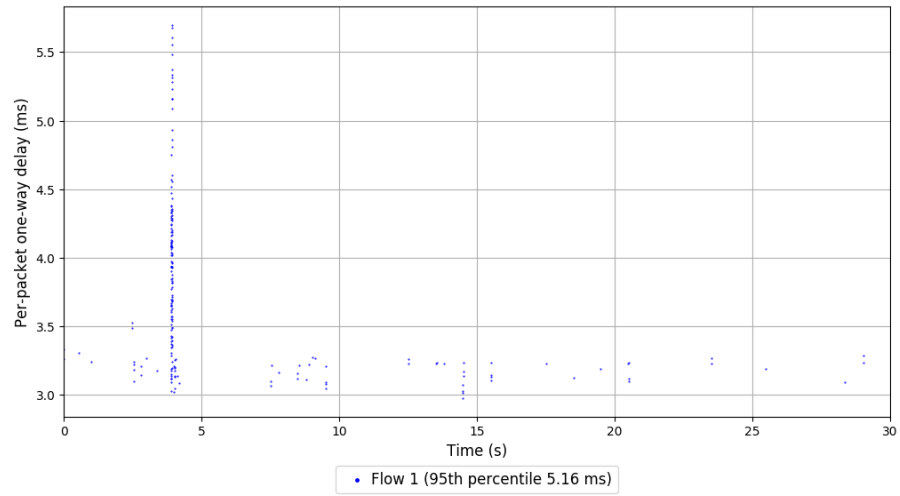
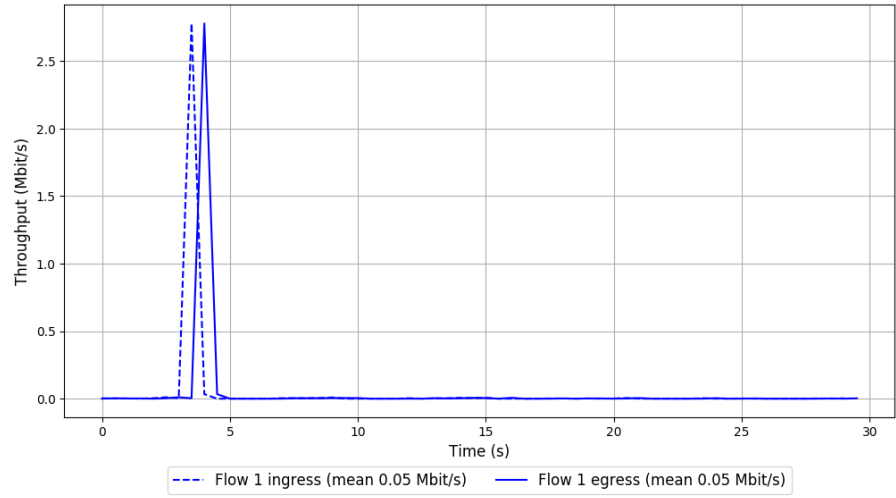


Run 1: Statistics of WebRTC media

Start at: 2019-04-23 19:05:30  
End at: 2019-04-23 19:06:00  
Local clock offset: -3.698 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-04-23 21:14:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 5.161 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 5.161 ms  
Loss rate: 0.00%

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



Run 2: Statistics of WebRTC media

Start at: 2019-04-23 19:28:56

End at: 2019-04-23 19:29:26

Local clock offset: -4.08 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-04-23 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.674 ms

Loss rate: 0.00%

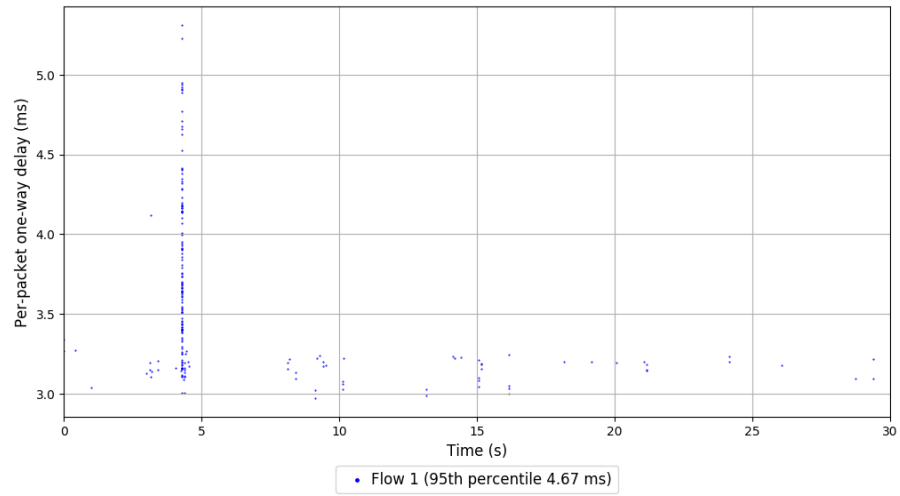
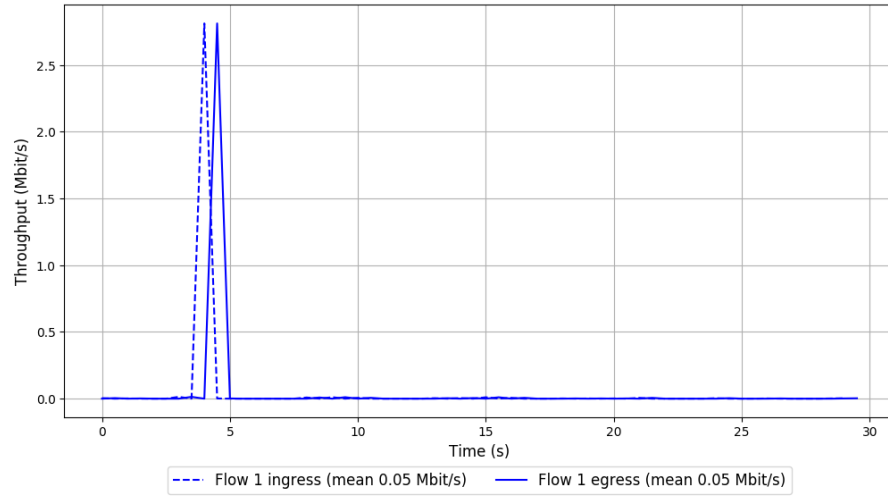
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.674 ms

Loss rate: 0.00%

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



Run 3: Statistics of WebRTC media

Start at: 2019-04-23 19:52:25

End at: 2019-04-23 19:52:55

Local clock offset: -3.567 ms

Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2019-04-23 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.034 ms

Loss rate: 0.00%

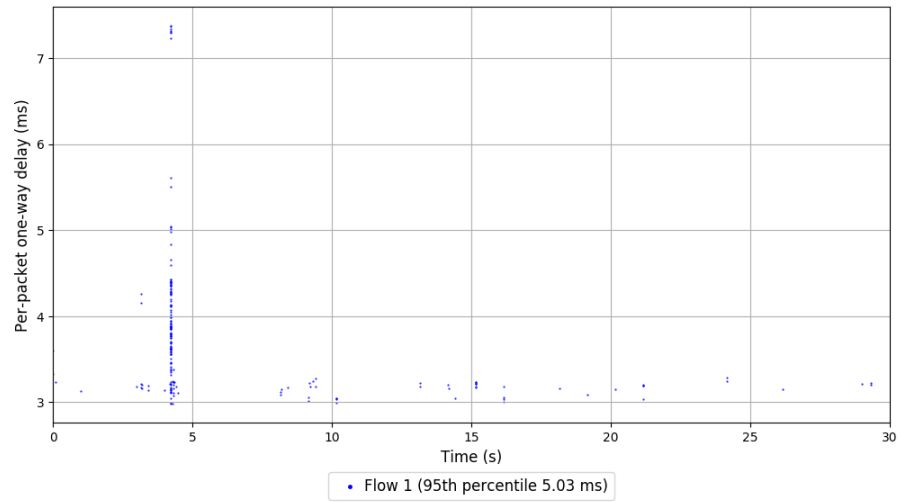
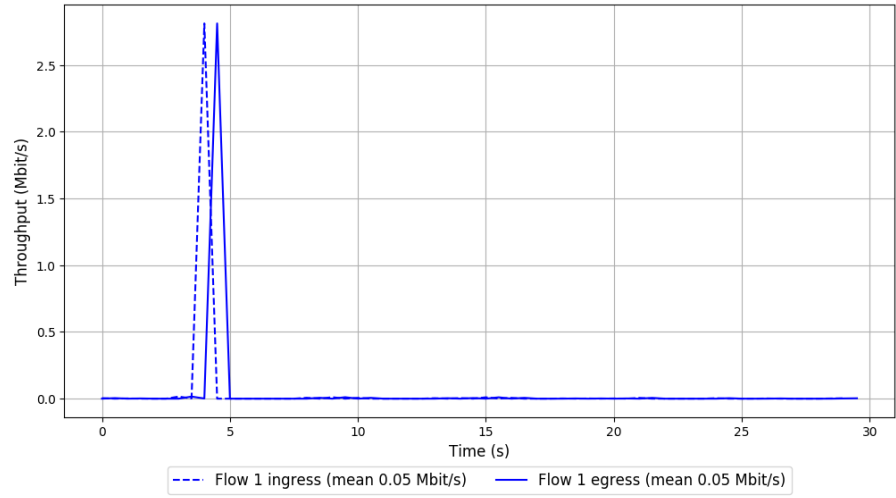
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.034 ms

Loss rate: 0.00%

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



Run 4: Statistics of WebRTC media

Start at: 2019-04-23 20:15:51

End at: 2019-04-23 20:16:21

Local clock offset: -2.809 ms

Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2019-04-23 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.450 ms

Loss rate: 0.00%

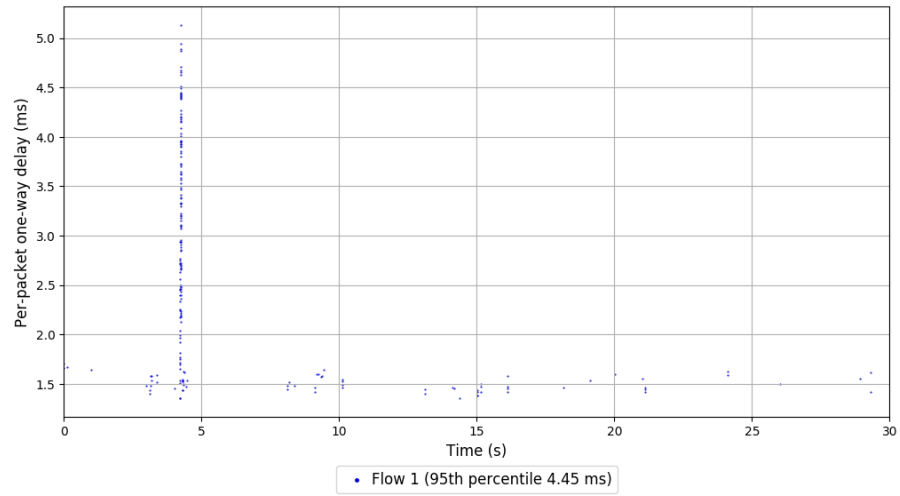
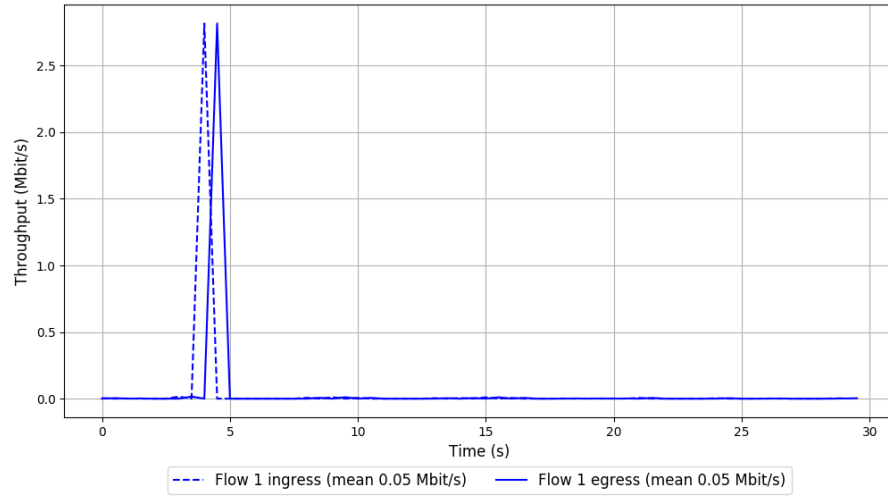
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.450 ms

Loss rate: 0.00%

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





Run 5: Statistics of WebRTC media

Start at: 2019-04-23 20:39:17

End at: 2019-04-23 20:39:47

Local clock offset: -2.382 ms

Remote clock offset: 0.548 ms

# Below is generated by plot.py at 2019-04-23 21:14:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.282 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.282 ms

Loss rate: 0.00%

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

