

## Pantheon Report

Generated at 2019-10-02 21:11:52 (UTC).

Data path: AWS California 1 on `ens5` (*local*) → Stanford on `eno1` (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

### System info:

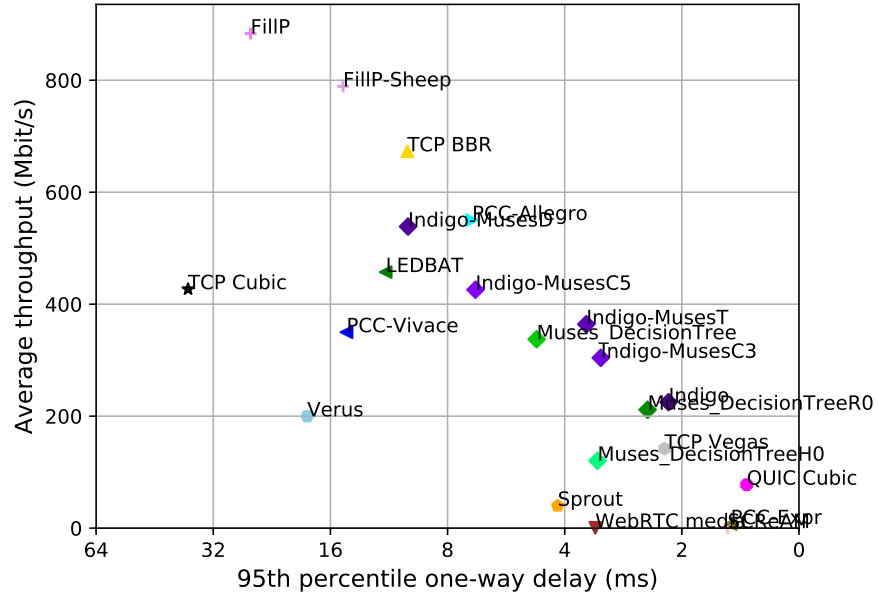
```
Linux 4.15.0-1050-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

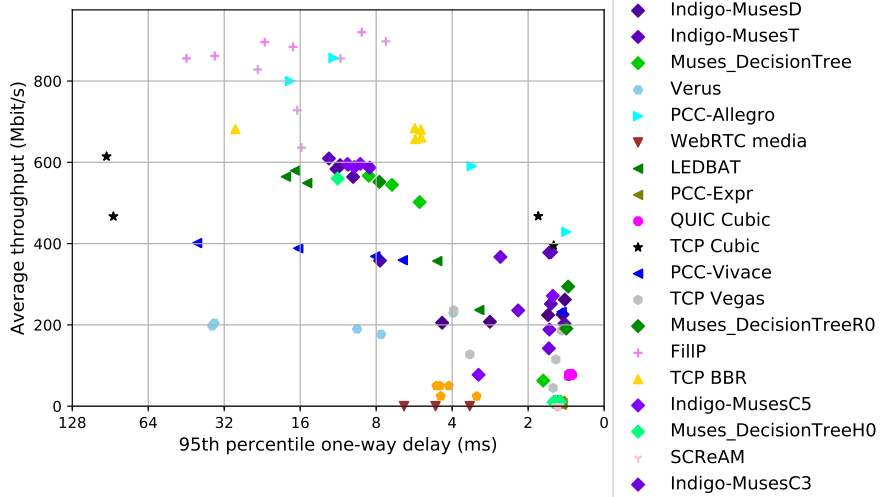
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

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

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



test from AWS California 1 to Stanford, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	673.08	10.15	0.05
Copa	0	N/A	N/A	N/A
TCP Cubic	5	426.81	37.14	0.02
FillP	5	883.48	25.67	6.70
FillP-Sheep	5	789.08	14.84	3.17
Indigo	5	225.00	2.16	0.00
Indigo-MusesC3	5	304.16	3.23	0.01
Indigo-MusesC5	5	425.80	6.78	0.06
Indigo-MusesD	5	538.64	10.11	0.03
Indigo-MusesT	5	364.25	3.52	0.01
LEDBAT	5	457.35	11.54	0.02
Muses_DecisionTree	5	337.38	4.72	0.01
Muses_DecisionTreeH0	5	120.35	3.29	0.04
Muses_DecisionTreeR0	5	211.47	2.45	0.00
PCC-Allegro	5	550.28	6.92	0.12
PCC-Expr	5	7.14	1.17	19.27
QUIC Cubic	5	77.55	0.89	0.00
SCReAM	5	0.22	1.22	0.00
Sprout	5	39.81	4.17	0.03
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	5	141.83	2.22	0.04
Verus	5	199.69	18.36	7.27
PCC-Vivace	5	349.96	14.55	0.00
WebRTC media	5	0.50	3.34	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-10-02 17:41:41

End at: 2019-10-02 17:42:11

Local clock offset: 4.624 ms

Remote clock offset: 3.388 ms

# Below is generated by plot.py at 2019-10-02 20:25:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 661.42 Mbit/s

95th percentile per-packet one-way delay: 5.304 ms

Loss rate: 0.10%

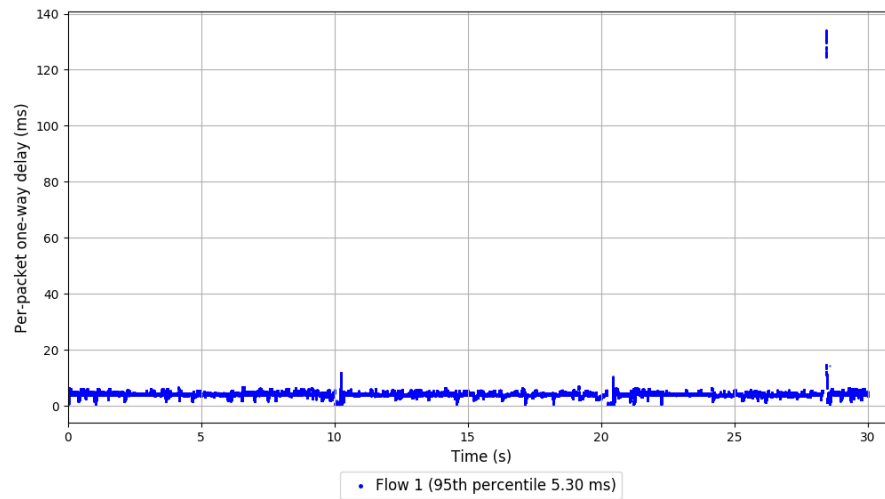
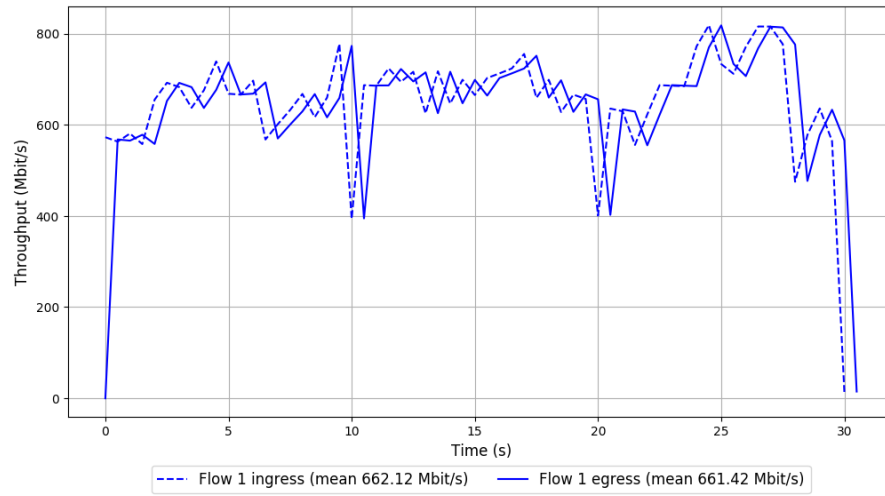
-- Flow 1:

Average throughput: 661.42 Mbit/s

95th percentile per-packet one-way delay: 5.304 ms

Loss rate: 0.10%

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



Run 2: Statistics of TCP BBR

Start at: 2019-10-02 18:14:10

End at: 2019-10-02 18:14:40

Local clock offset: 4.446 ms

Remote clock offset: 2.79 ms

# Below is generated by plot.py at 2019-10-02 20:25:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 684.03 Mbit/s

95th percentile per-packet one-way delay: 5.624 ms

Loss rate: 0.01%

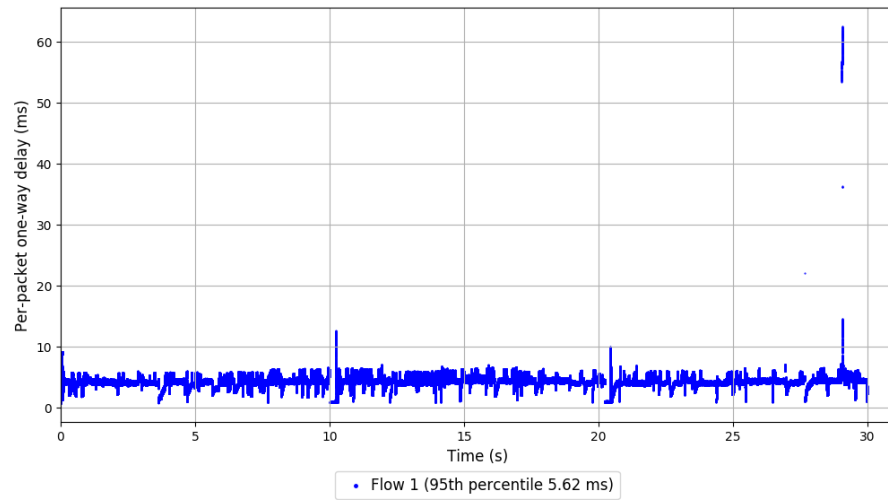
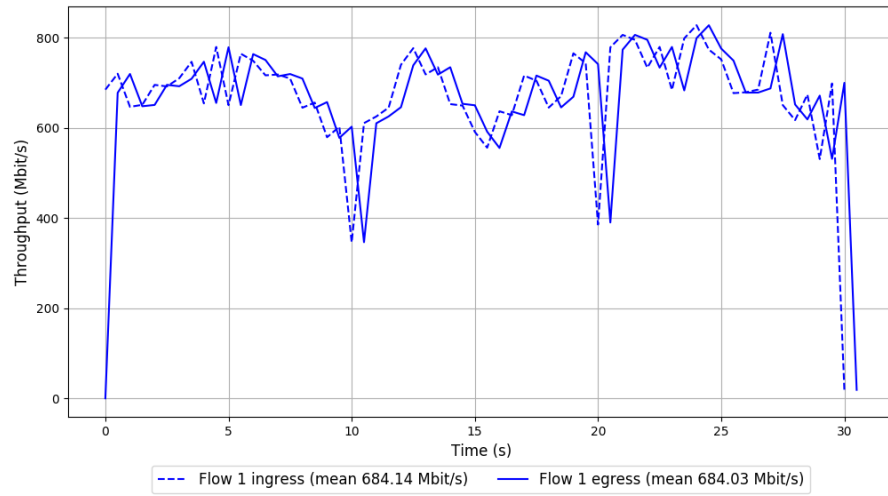
-- Flow 1:

Average throughput: 684.03 Mbit/s

95th percentile per-packet one-way delay: 5.624 ms

Loss rate: 0.01%

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



Run 3: Statistics of TCP BBR

Start at: 2019-10-02 18:47:32

End at: 2019-10-02 18:48:02

Local clock offset: 4.655 ms

Remote clock offset: -0.71 ms

# Below is generated by plot.py at 2019-10-02 20:25:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 657.45 Mbit/s

95th percentile per-packet one-way delay: 5.603 ms

Loss rate: 0.02%

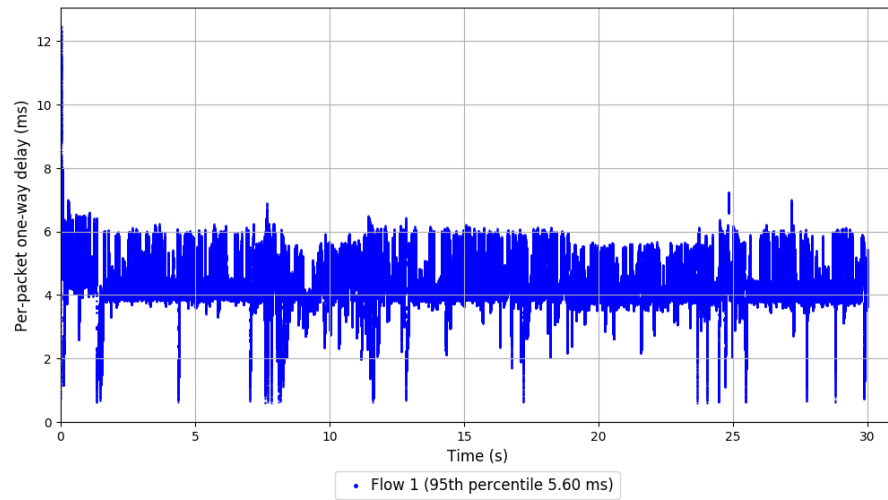
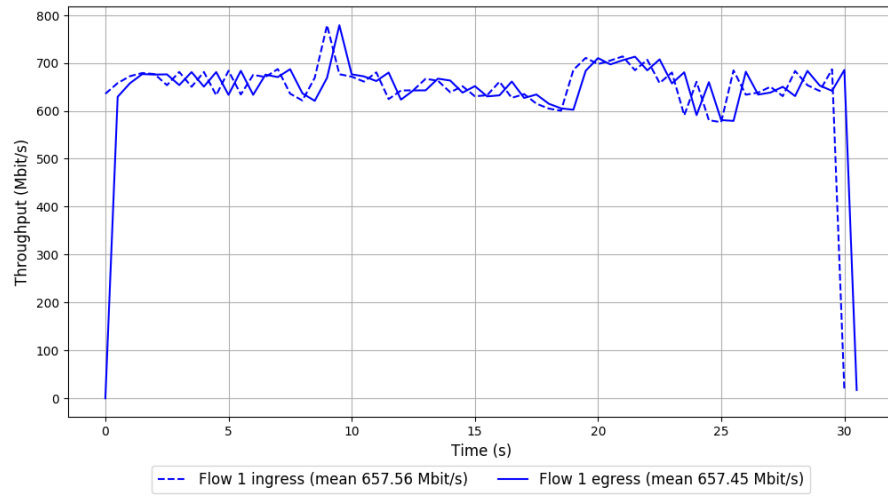
-- Flow 1:

Average throughput: 657.45 Mbit/s

95th percentile per-packet one-way delay: 5.603 ms

Loss rate: 0.02%

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

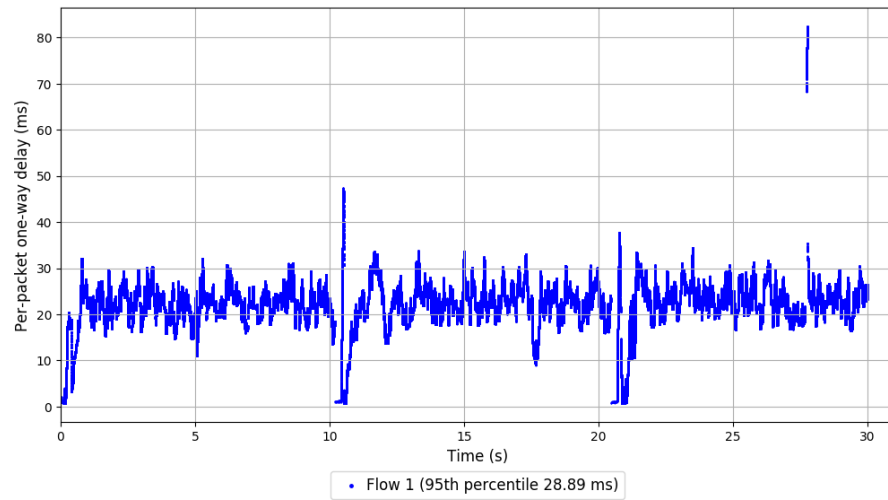
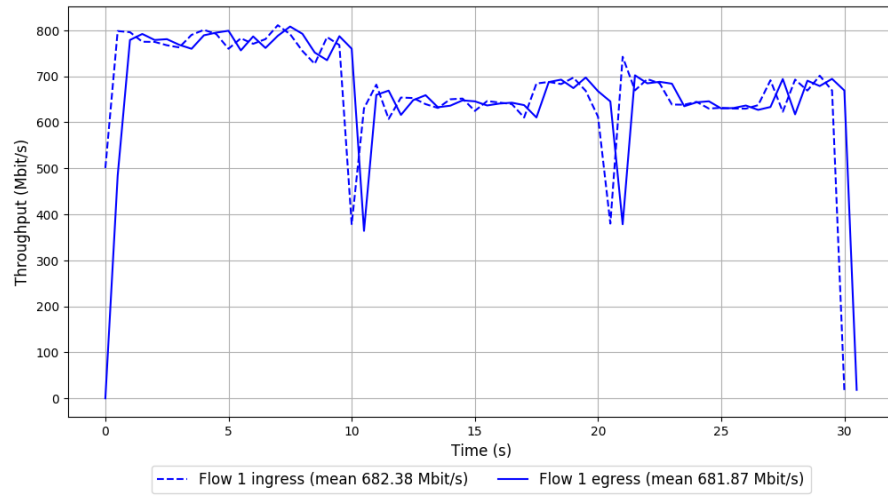


Run 4: Statistics of TCP BBR

Start at: 2019-10-02 19:21:06  
End at: 2019-10-02 19:21:36  
Local clock offset: 4.321 ms  
Remote clock offset: -0.325 ms

# Below is generated by plot.py at 2019-10-02 20:25:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 681.87 Mbit/s  
95th percentile per-packet one-way delay: 28.893 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 681.87 Mbit/s  
95th percentile per-packet one-way delay: 28.893 ms  
Loss rate: 0.08%

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



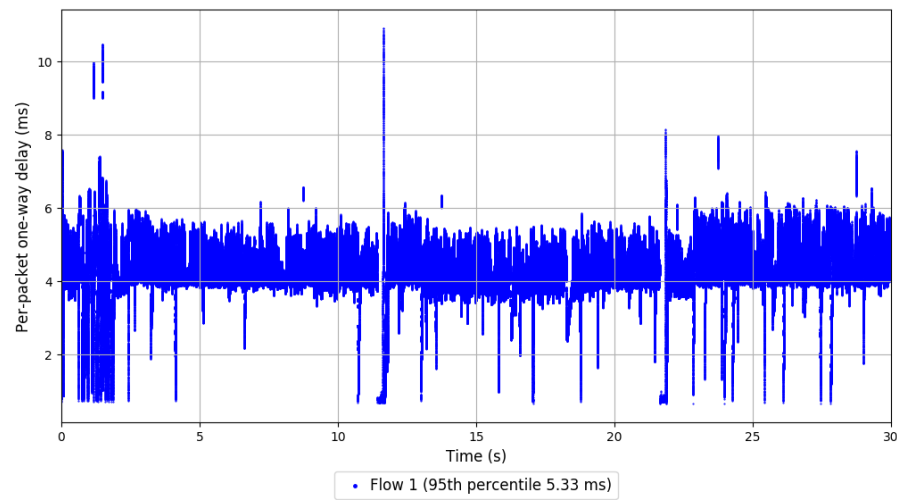
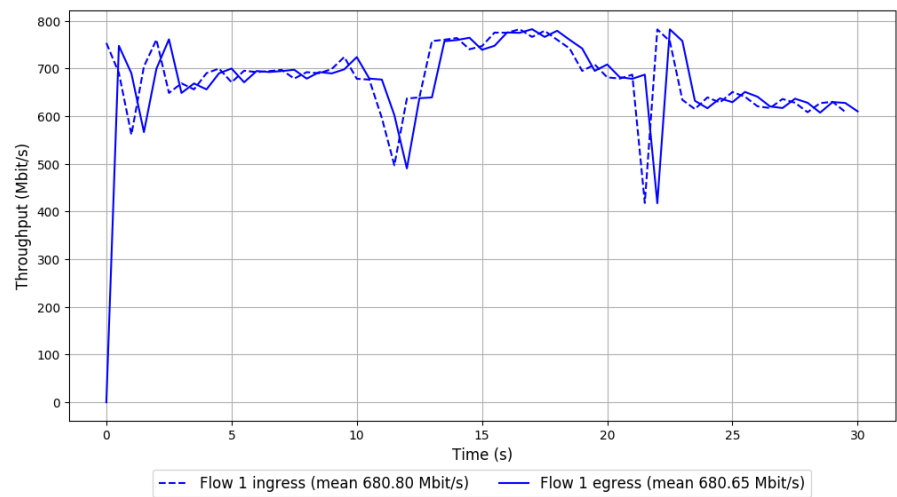


Run 5: Statistics of TCP BBR

Start at: 2019-10-02 19:54:39  
End at: 2019-10-02 19:55:09  
Local clock offset: 4.713 ms  
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2019-10-02 20:25:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 680.65 Mbit/s  
95th percentile per-packet one-way delay: 5.325 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 680.65 Mbit/s  
95th percentile per-packet one-way delay: 5.325 ms  
Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

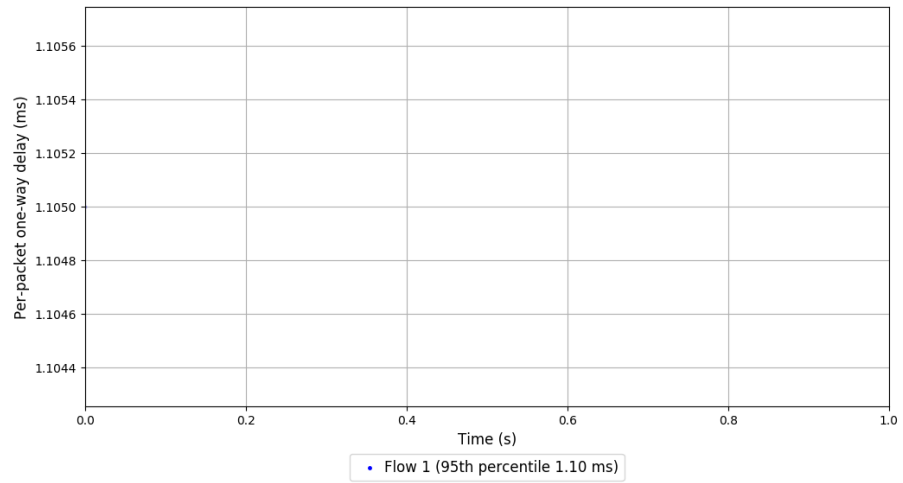
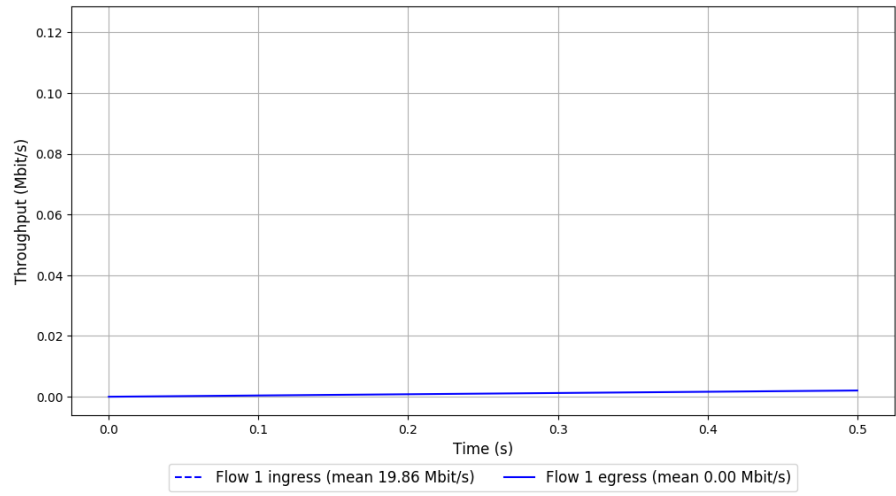
Start at: 2019-10-02 17:46:07

End at: 2019-10-02 17:46:37

Local clock offset: 4.231 ms

Remote clock offset: 3.267 ms

### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

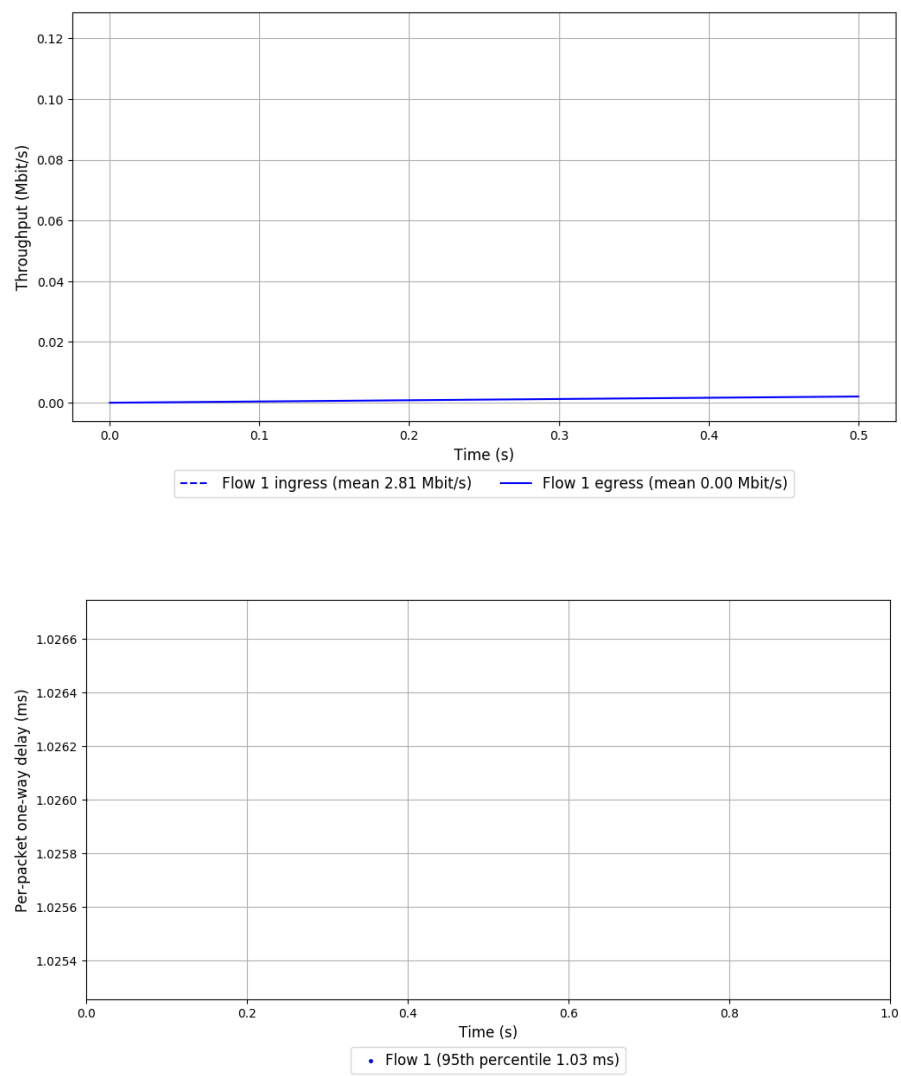
Start at: 2019-10-02 18:18:37

End at: 2019-10-02 18:19:07

Local clock offset: 4.565 ms

Remote clock offset: 1.557 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

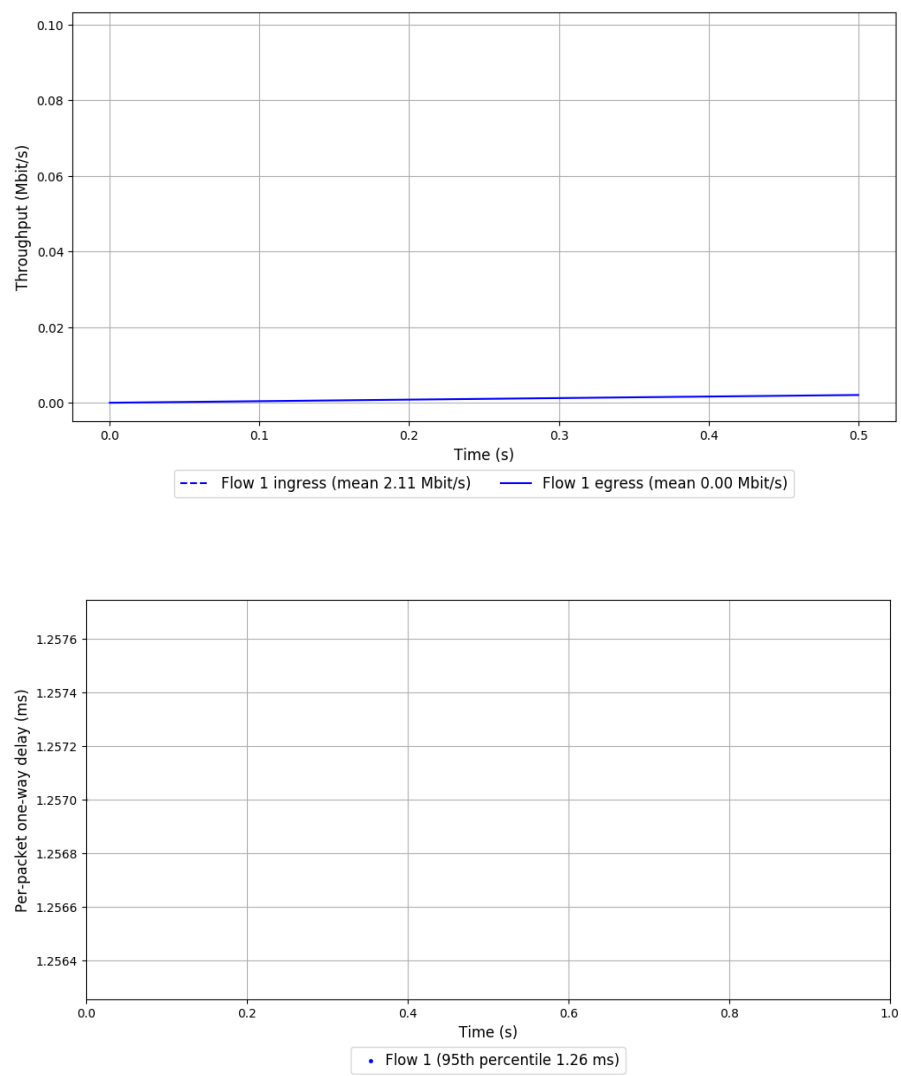
Start at: 2019-10-02 18:51:57

End at: 2019-10-02 18:52:27

Local clock offset: 4.686 ms

Remote clock offset: -0.382 ms

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

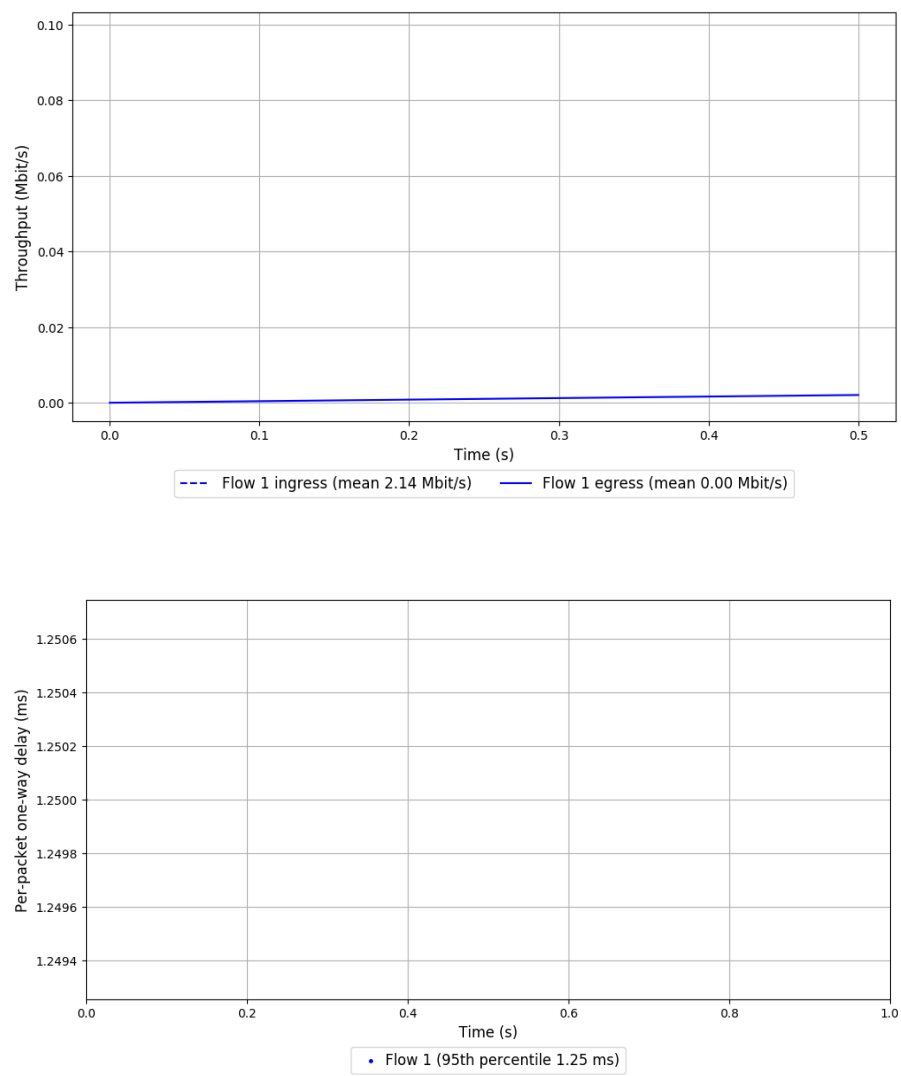
Start at: 2019-10-02 19:25:28

End at: 2019-10-02 19:25:58

Local clock offset: 4.325 ms

Remote clock offset: -0.237 ms

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

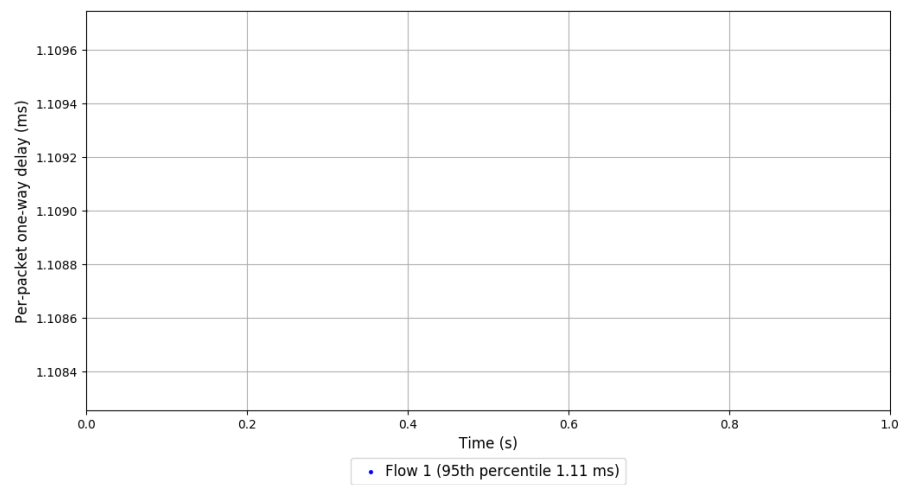
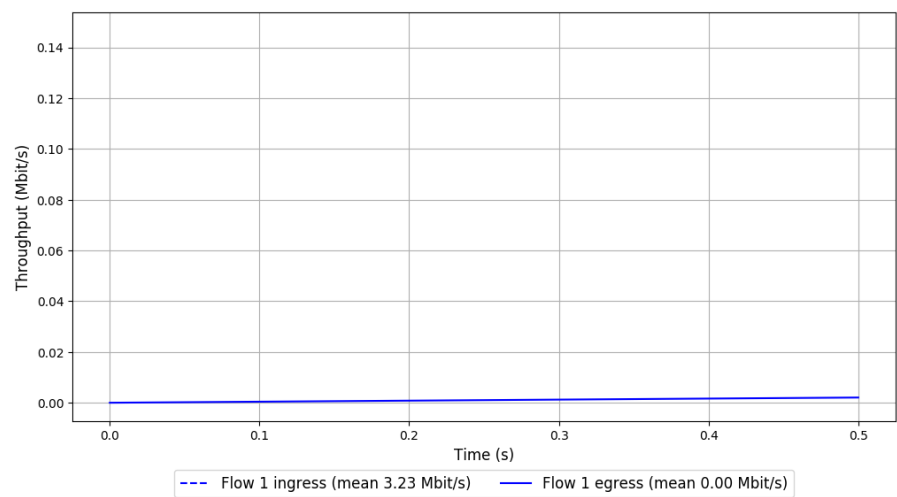
Start at: 2019-10-02 19:58:58

End at: 2019-10-02 19:59:28

Local clock offset: 4.279 ms

Remote clock offset: -0.181 ms

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-10-02 17:37:34

End at: 2019-10-02 17:38:04

Local clock offset: 4.443 ms

Remote clock offset: 3.484 ms

# Below is generated by plot.py at 2019-10-02 20:25:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 189.95 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 0.01%

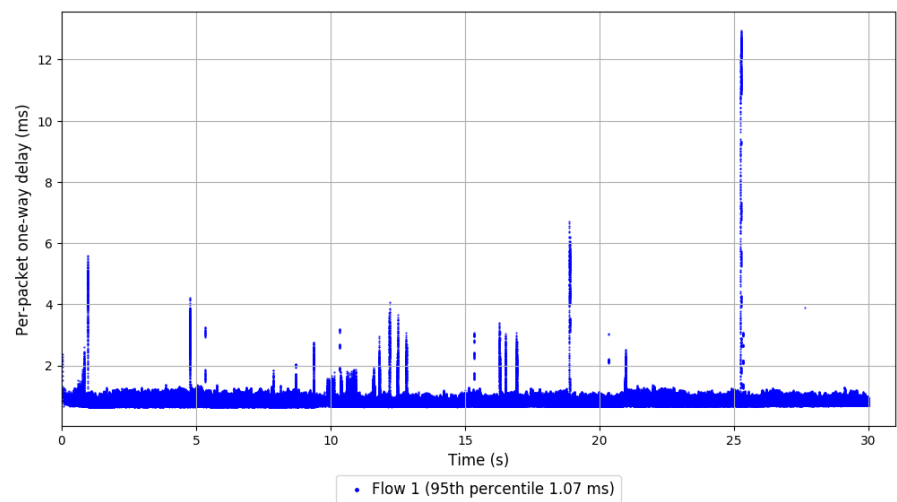
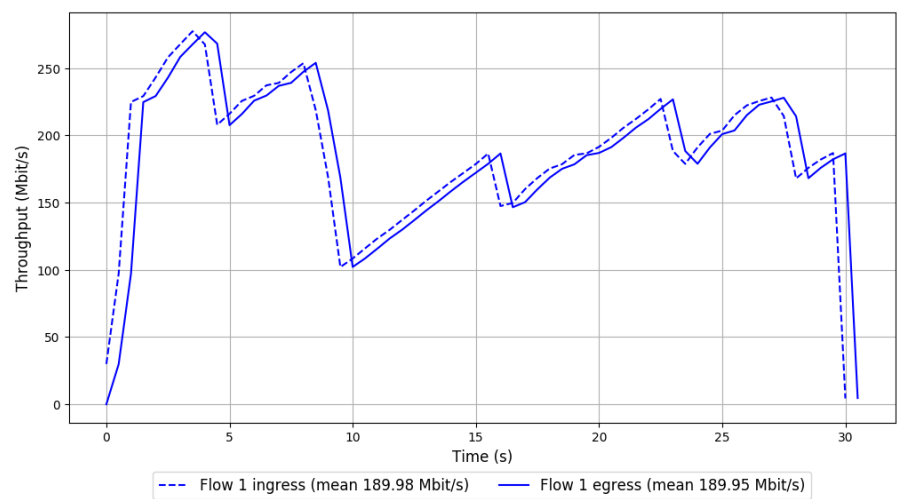
-- Flow 1:

Average throughput: 189.95 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-10-02 18:10:05

End at: 2019-10-02 18:10:35

Local clock offset: 4.345 ms

Remote clock offset: 3.664 ms

# Below is generated by plot.py at 2019-10-02 20:25:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 395.41 Mbit/s

95th percentile per-packet one-way delay: 1.328 ms

Loss rate: 0.00%

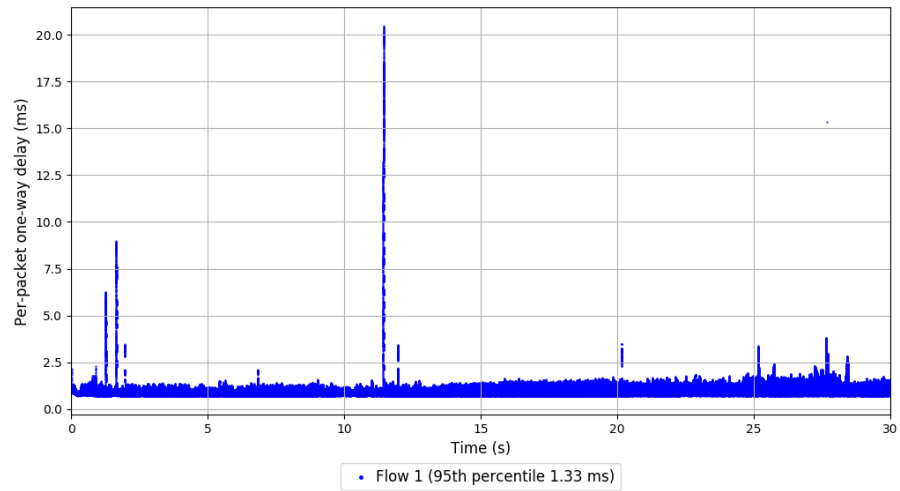
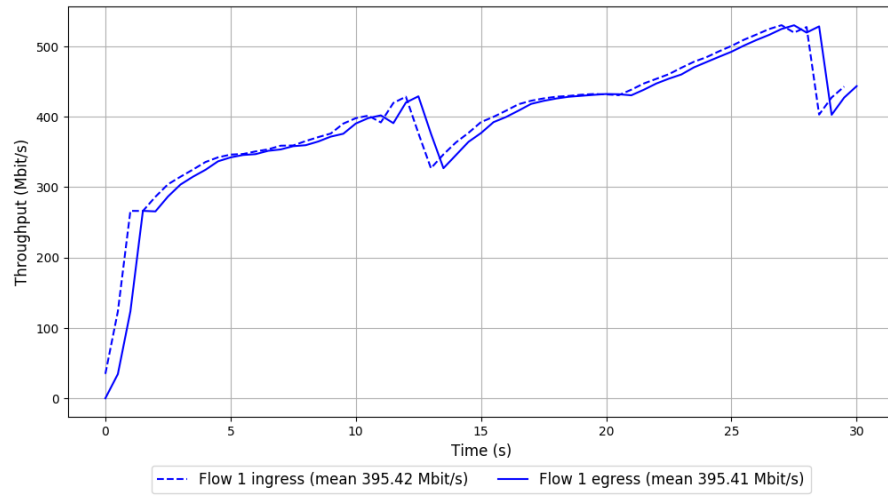
-- Flow 1:

Average throughput: 395.41 Mbit/s

95th percentile per-packet one-way delay: 1.328 ms

Loss rate: 0.00%

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



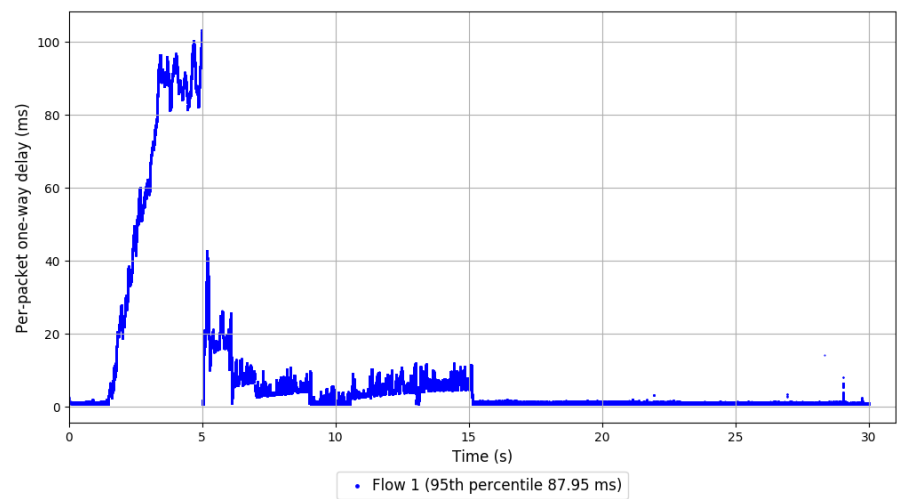
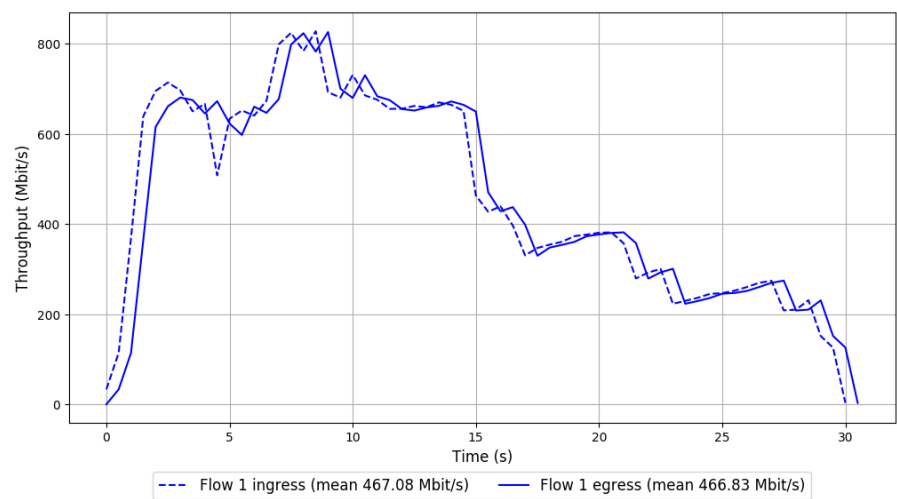


Run 3: Statistics of TCP Cubic

Start at: 2019-10-02 18:43:18  
End at: 2019-10-02 18:43:48  
Local clock offset: 4.564 ms  
Remote clock offset: -0.598 ms

# Below is generated by plot.py at 2019-10-02 20:25:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 466.83 Mbit/s  
95th percentile per-packet one-way delay: 87.951 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 466.83 Mbit/s  
95th percentile per-packet one-way delay: 87.951 ms  
Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link

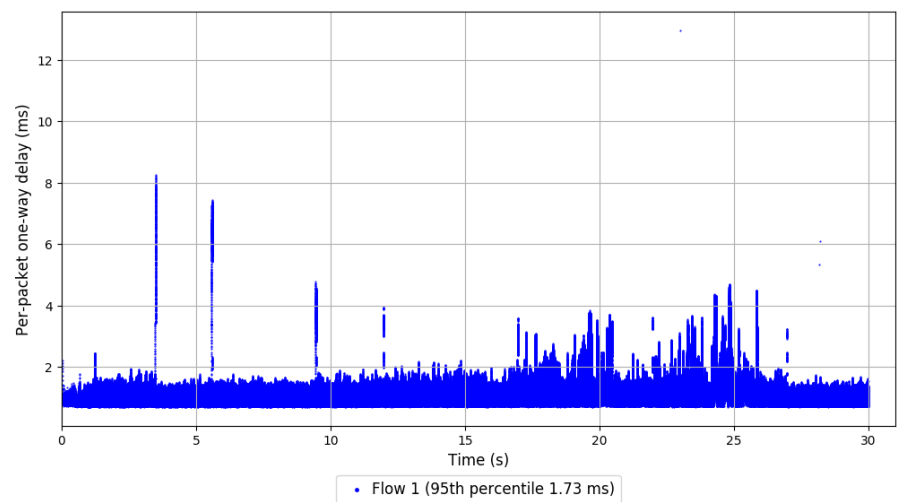
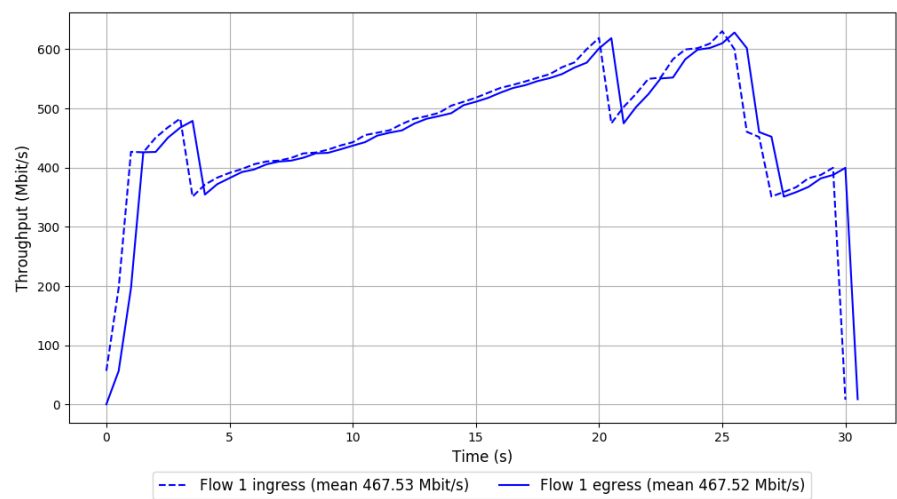


Run 4: Statistics of TCP Cubic

Start at: 2019-10-02 19:16:52  
End at: 2019-10-02 19:17:22  
Local clock offset: 4.319 ms  
Remote clock offset: -0.387 ms

# Below is generated by plot.py at 2019-10-02 20:25:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 467.52 Mbit/s  
95th percentile per-packet one-way delay: 1.733 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 467.52 Mbit/s  
95th percentile per-packet one-way delay: 1.733 ms  
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

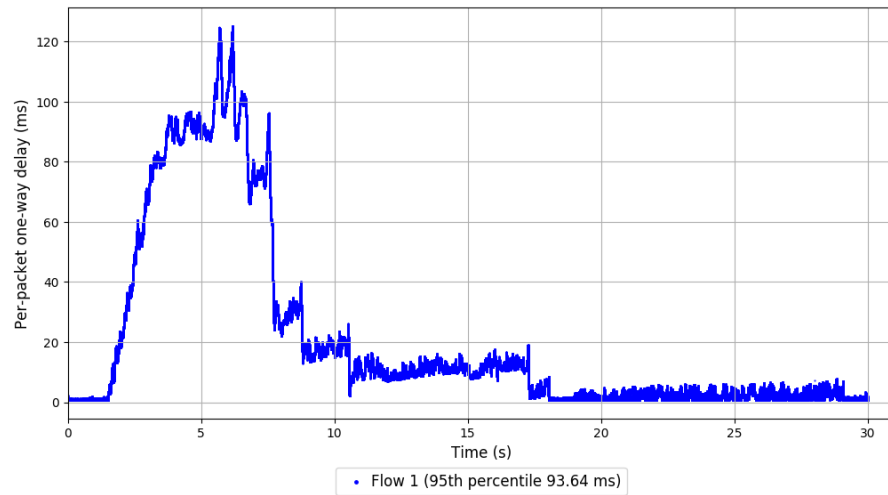
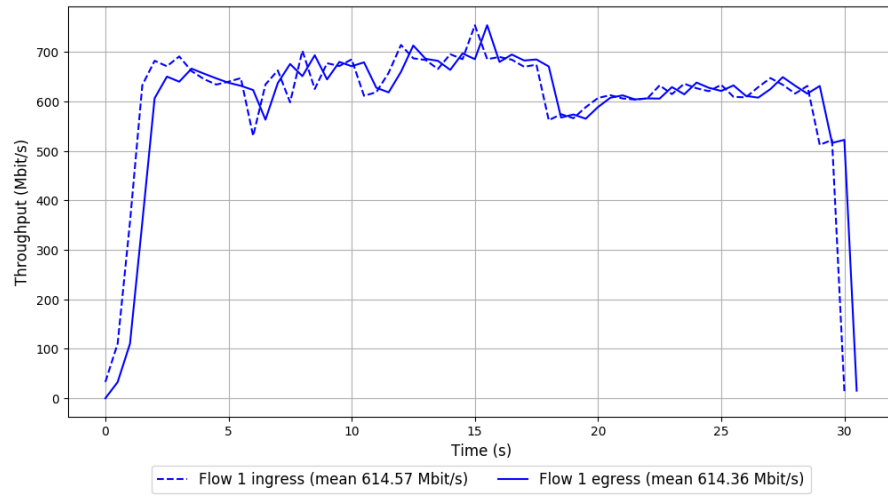


Run 5: Statistics of TCP Cubic

Start at: 2019-10-02 19:50:21  
End at: 2019-10-02 19:50:51  
Local clock offset: 4.651 ms  
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2019-10-02 20:28:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 614.36 Mbit/s  
95th percentile per-packet one-way delay: 93.642 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 614.36 Mbit/s  
95th percentile per-packet one-way delay: 93.642 ms  
Loss rate: 0.03%

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



Run 1: Statistics of FillP

Start at: 2019-10-02 17:27:52

End at: 2019-10-02 17:28:22

Local clock offset: 5.05 ms

Remote clock offset: 3.355 ms

# Below is generated by plot.py at 2019-10-02 20:36:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 920.15 Mbit/s

95th percentile per-packet one-way delay: 9.123 ms

Loss rate: 2.86%

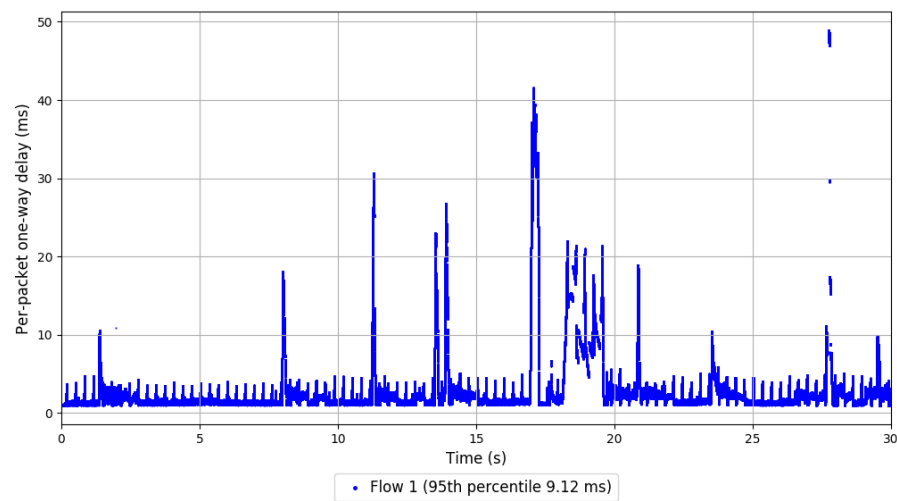
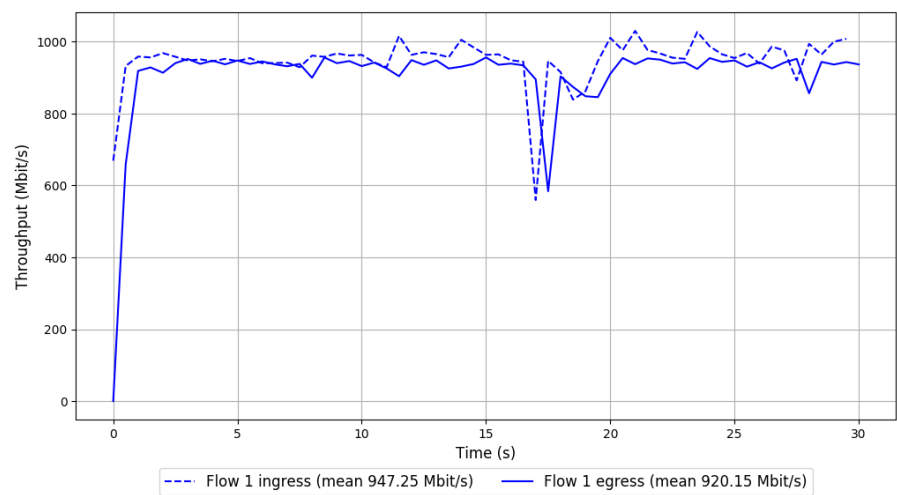
-- Flow 1:

Average throughput: 920.15 Mbit/s

95th percentile per-packet one-way delay: 9.123 ms

Loss rate: 2.86%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-10-02 18:00:33

End at: 2019-10-02 18:01:03

Local clock offset: 4.249 ms

Remote clock offset: 3.459 ms

# Below is generated by plot.py at 2019-10-02 20:37:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 883.83 Mbit/s

95th percentile per-packet one-way delay: 17.071 ms

Loss rate: 6.12%

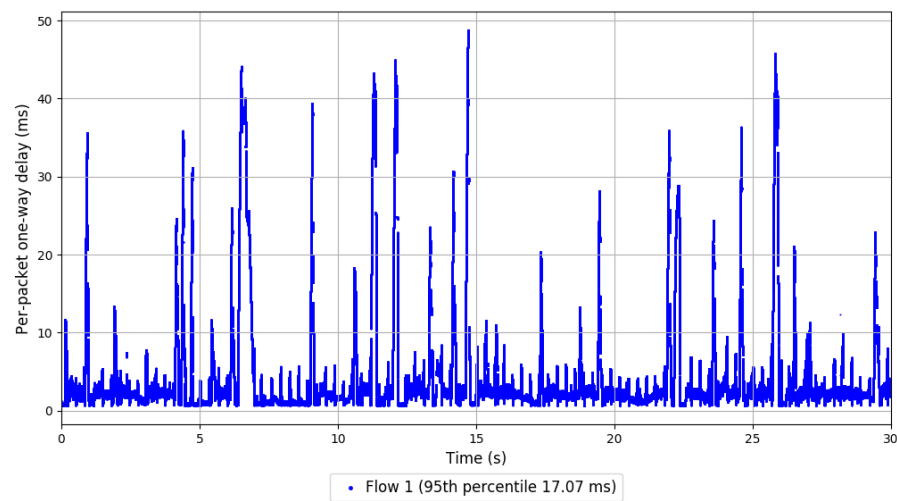
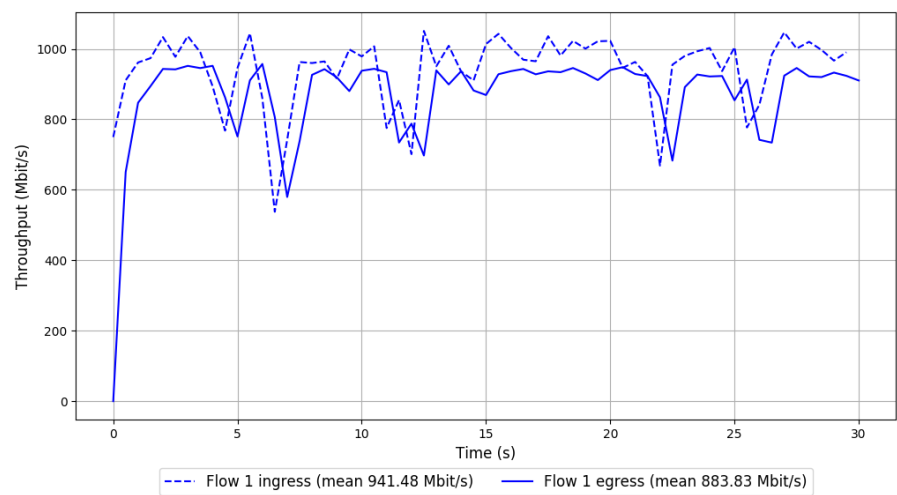
-- Flow 1:

Average throughput: 883.83 Mbit/s

95th percentile per-packet one-way delay: 17.071 ms

Loss rate: 6.12%

Run 2: Report of FillP — Data Link

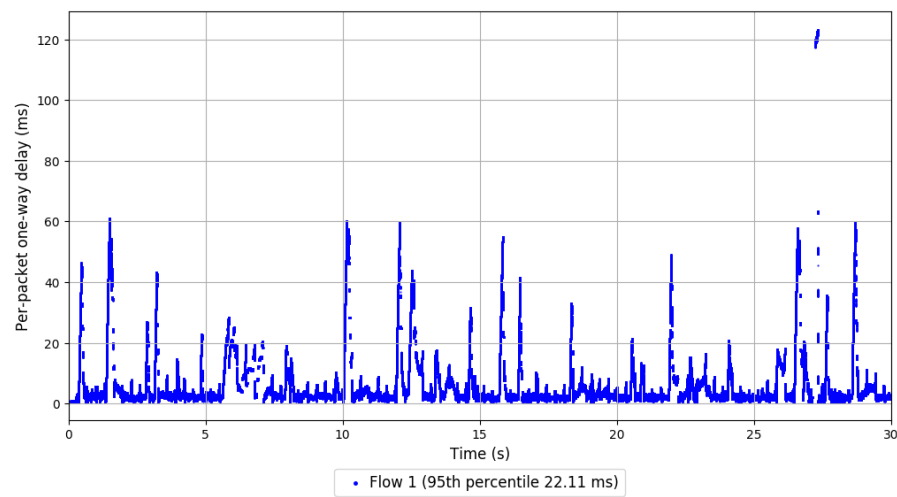
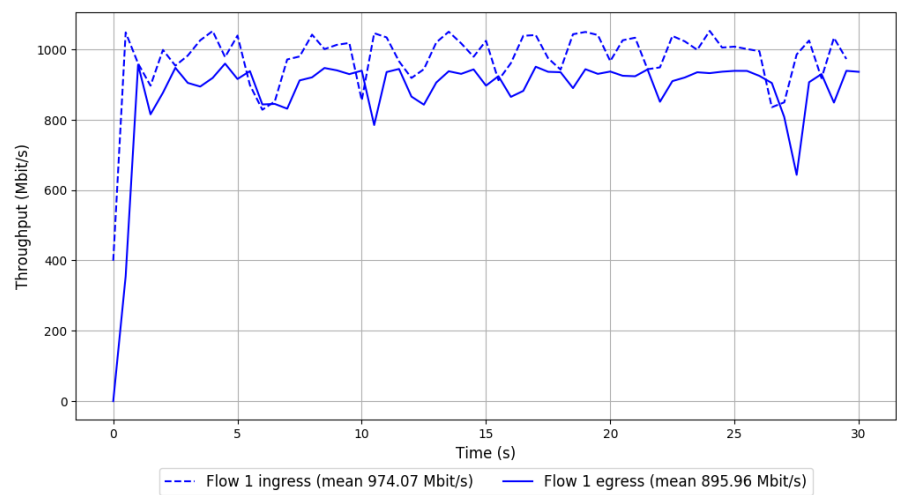


Run 3: Statistics of FillP

Start at: 2019-10-02 18:33:34  
End at: 2019-10-02 18:34:04  
Local clock offset: 4.546 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-10-02 20:38:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 895.96 Mbit/s  
95th percentile per-packet one-way delay: 22.109 ms  
Loss rate: 8.01%  
-- Flow 1:  
Average throughput: 895.96 Mbit/s  
95th percentile per-packet one-way delay: 22.109 ms  
Loss rate: 8.01%

Run 3: Report of FillP — Data Link

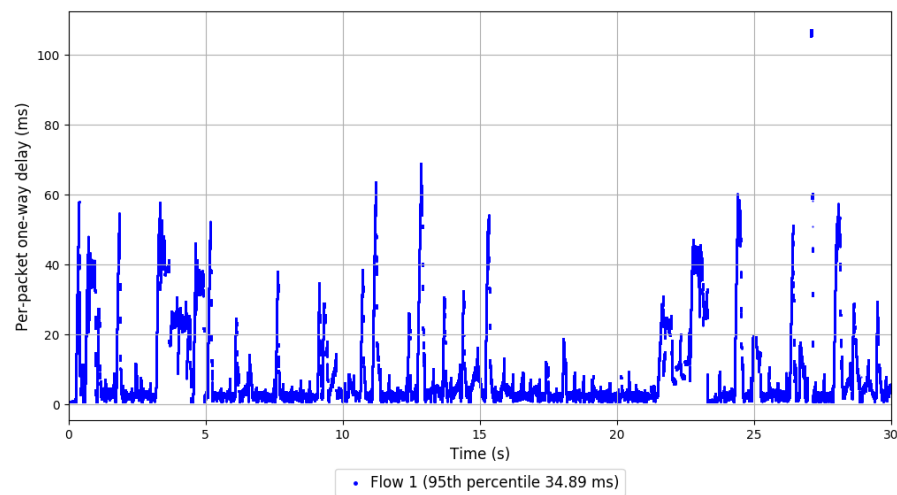
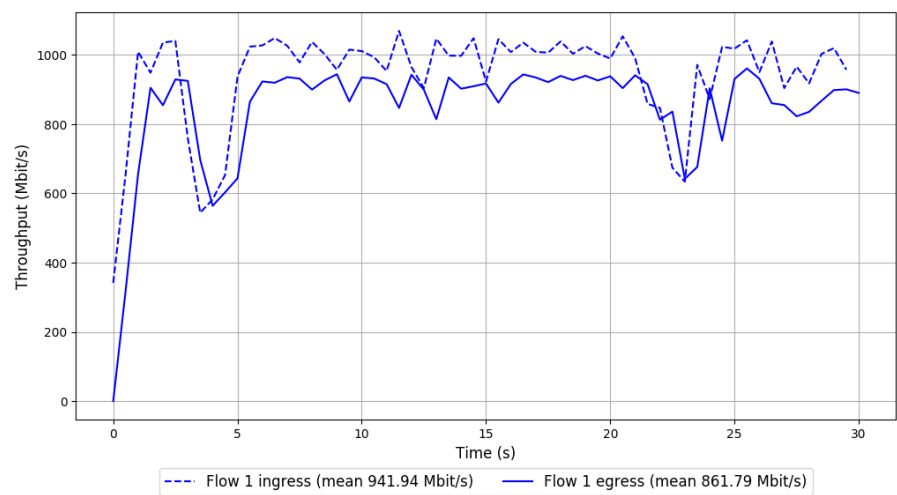


Run 4: Statistics of FillP

Start at: 2019-10-02 19:07:18  
End at: 2019-10-02 19:07:48  
Local clock offset: 4.351 ms  
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2019-10-02 20:38:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 861.79 Mbit/s  
95th percentile per-packet one-way delay: 34.891 ms  
Loss rate: 8.50%  
-- Flow 1:  
Average throughput: 861.79 Mbit/s  
95th percentile per-packet one-way delay: 34.891 ms  
Loss rate: 8.50%

Run 4: Report of FillP — Data Link

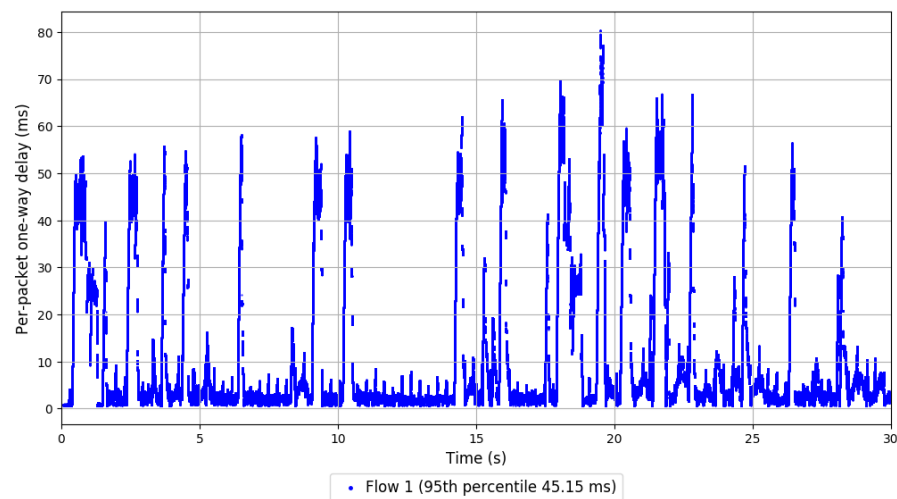
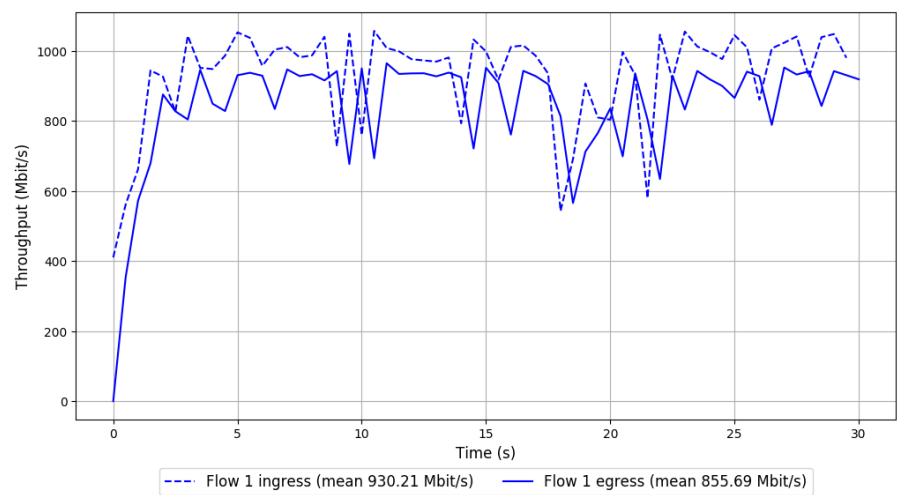


Run 5: Statistics of FillP

Start at: 2019-10-02 19:40:40  
End at: 2019-10-02 19:41:10  
Local clock offset: 4.55 ms  
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2019-10-02 20:38:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 855.69 Mbit/s  
95th percentile per-packet one-way delay: 45.154 ms  
Loss rate: 8.00%  
-- Flow 1:  
Average throughput: 855.69 Mbit/s  
95th percentile per-packet one-way delay: 45.154 ms  
Loss rate: 8.00%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-10-02 17:44:29

End at: 2019-10-02 17:44:59

Local clock offset: 4.356 ms

Remote clock offset: 3.358 ms

# Below is generated by plot.py at 2019-10-02 20:38:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 897.61 Mbit/s

95th percentile per-packet one-way delay: 7.321 ms

Loss rate: 2.73%

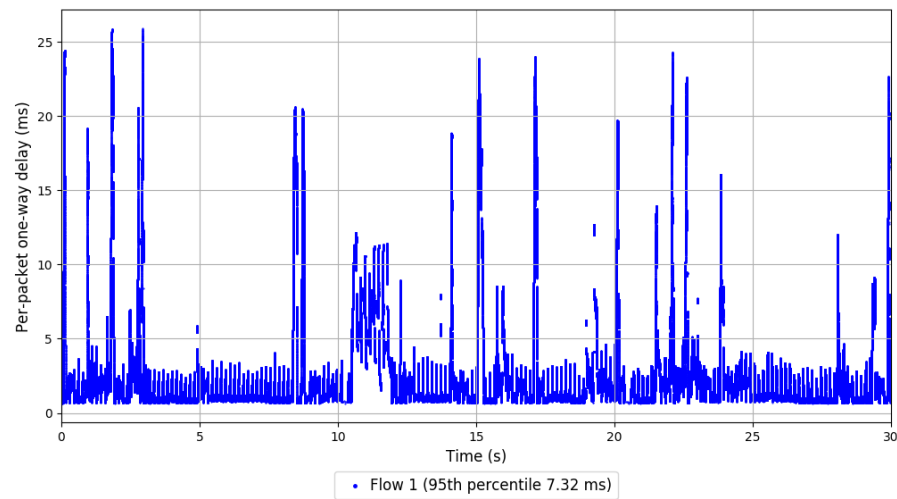
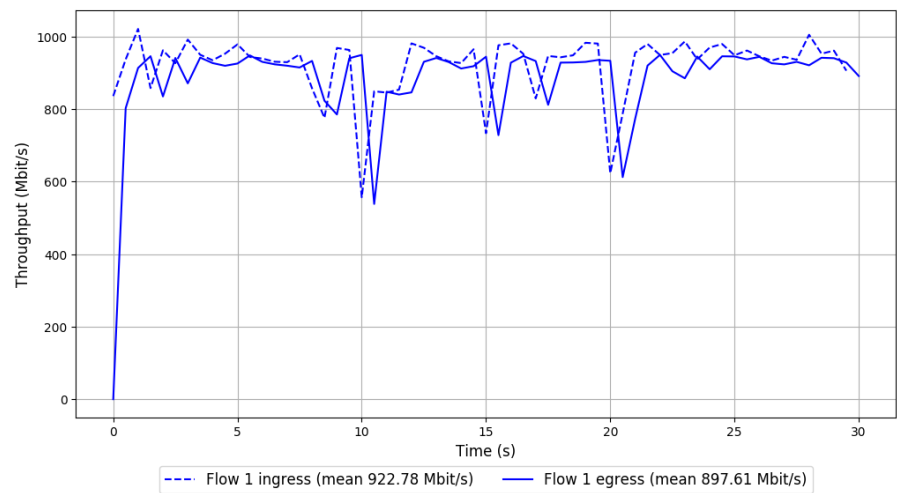
-- Flow 1:

Average throughput: 897.61 Mbit/s

95th percentile per-packet one-way delay: 7.321 ms

Loss rate: 2.73%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-02 18:17:00

End at: 2019-10-02 18:17:30

Local clock offset: 4.527 ms

Remote clock offset: 1.947 ms

# Below is generated by plot.py at 2019-10-02 20:38:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 855.43 Mbit/s

95th percentile per-packet one-way delay: 11.084 ms

Loss rate: 4.05%

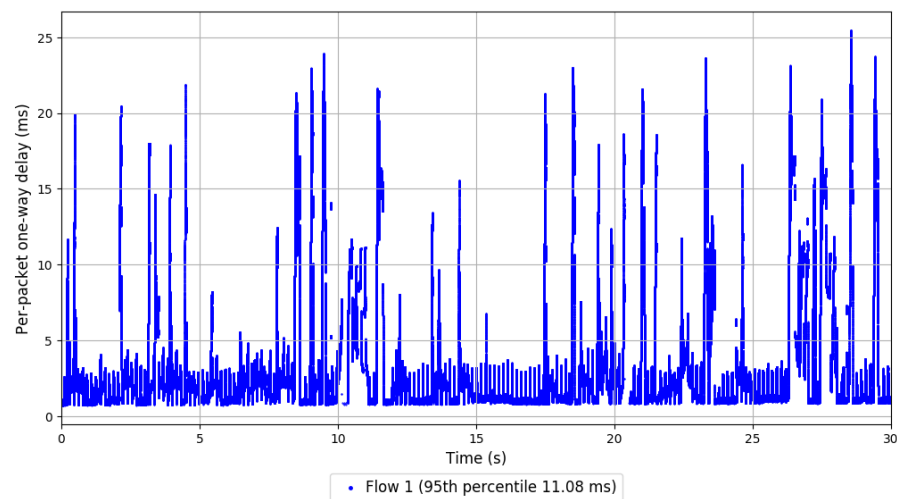
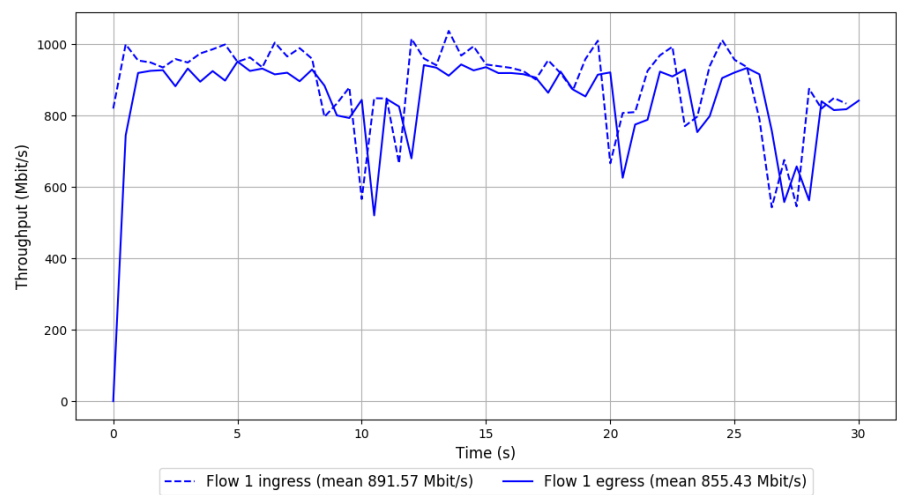
-- Flow 1:

Average throughput: 855.43 Mbit/s

95th percentile per-packet one-way delay: 11.084 ms

Loss rate: 4.05%

Run 2: Report of FillP-Sheep — Data Link

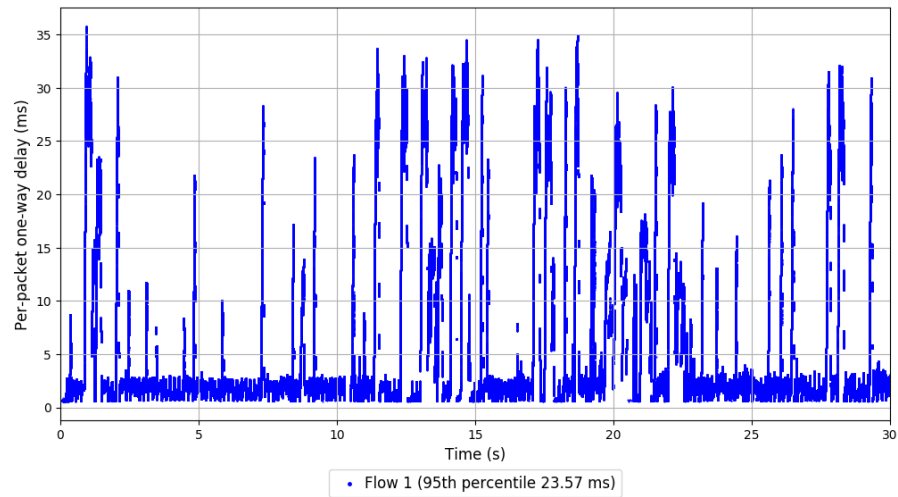
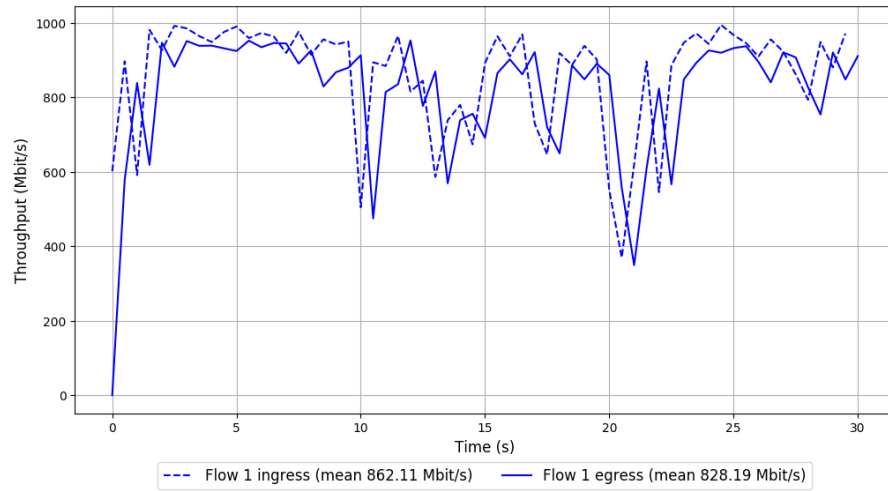


Run 3: Statistics of FillP-Sheep

Start at: 2019-10-02 18:50:20  
End at: 2019-10-02 18:50:50  
Local clock offset: 4.671 ms  
Remote clock offset: -0.559 ms

# Below is generated by plot.py at 2019-10-02 20:40:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 828.19 Mbit/s  
95th percentile per-packet one-way delay: 23.569 ms  
Loss rate: 3.93%  
-- Flow 1:  
Average throughput: 828.19 Mbit/s  
95th percentile per-packet one-way delay: 23.569 ms  
Loss rate: 3.93%

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

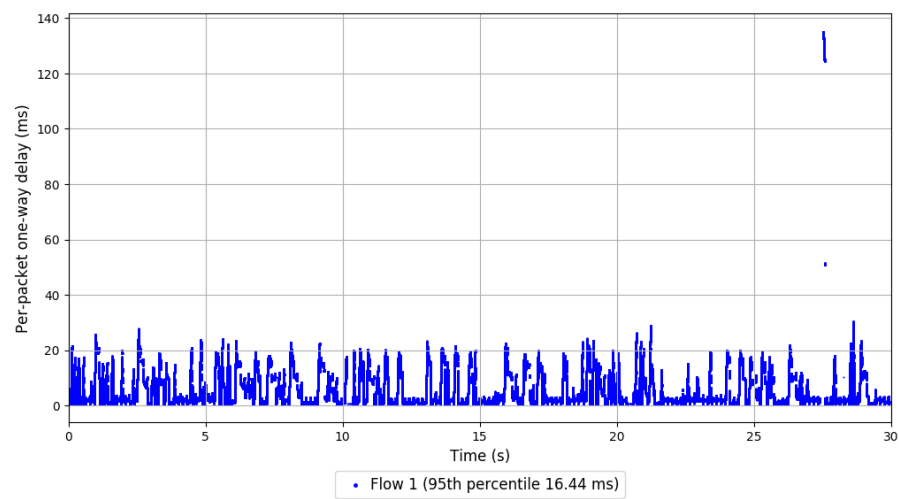
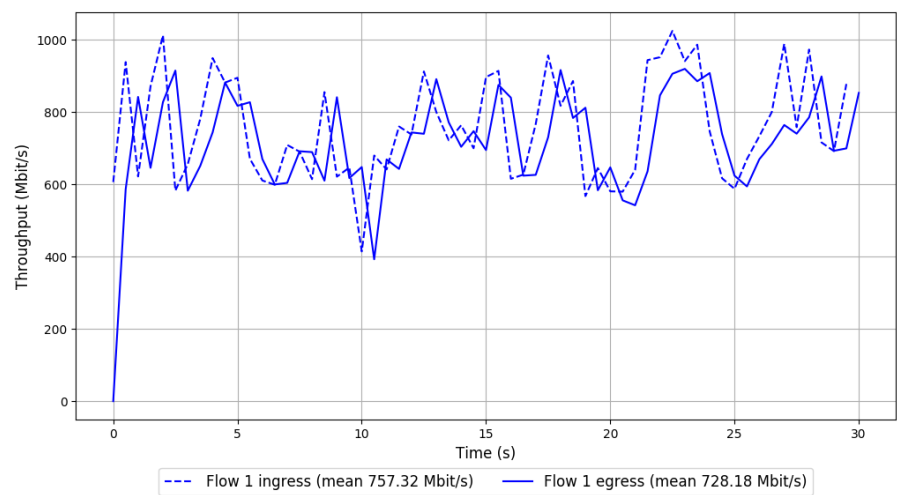


Run 4: Statistics of FillP-Sheep

Start at: 2019-10-02 19:23:55  
End at: 2019-10-02 19:24:25  
Local clock offset: 4.32 ms  
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-10-02 20:46:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 728.18 Mbit/s  
95th percentile per-packet one-way delay: 16.439 ms  
Loss rate: 3.85%  
-- Flow 1:  
Average throughput: 728.18 Mbit/s  
95th percentile per-packet one-way delay: 16.439 ms  
Loss rate: 3.85%

Run 4: Report of FillP-Sheep — Data Link



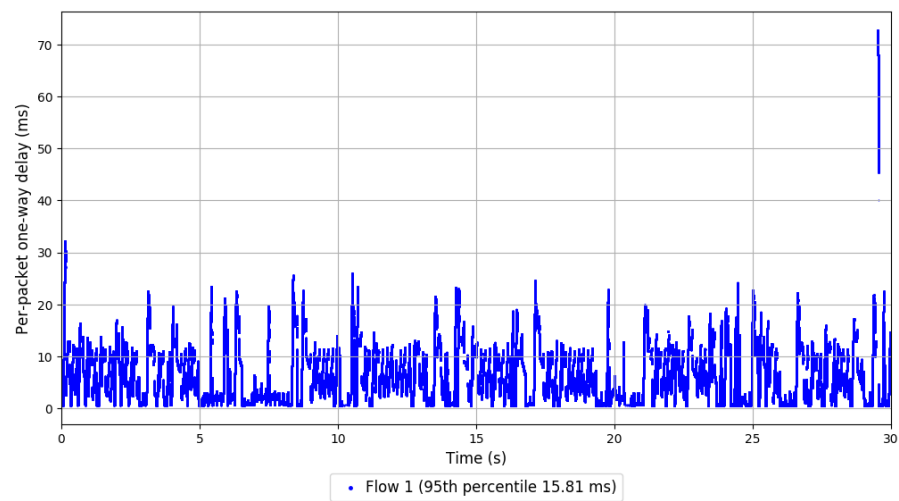
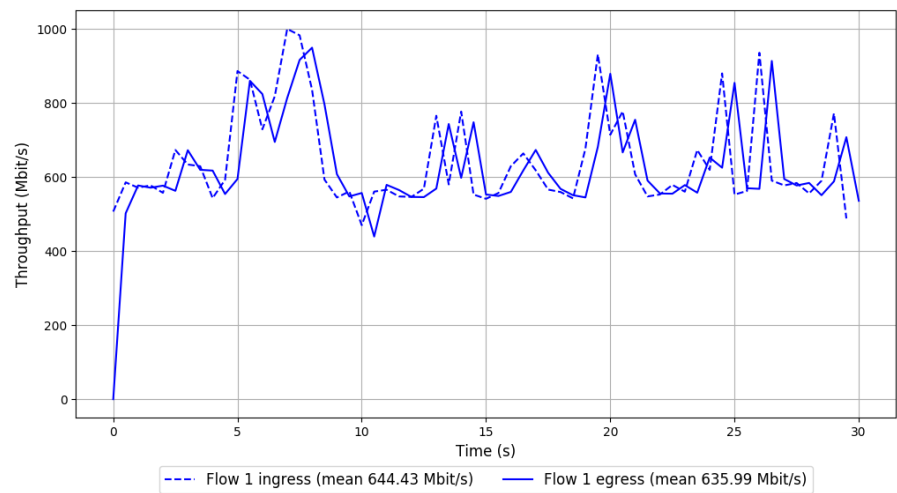


Run 5: Statistics of FillP-Sheep

Start at: 2019-10-02 19:57:28  
End at: 2019-10-02 19:57:58  
Local clock offset: 4.46 ms  
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2019-10-02 20:46:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 635.99 Mbit/s  
95th percentile per-packet one-way delay: 15.808 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 635.99 Mbit/s  
95th percentile per-packet one-way delay: 15.808 ms  
Loss rate: 1.31%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-10-02 17:31:07

End at: 2019-10-02 17:31:37

Local clock offset: 4.512 ms

Remote clock offset: 3.398 ms

# Below is generated by plot.py at 2019-10-02 20:46:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 262.11 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.00%

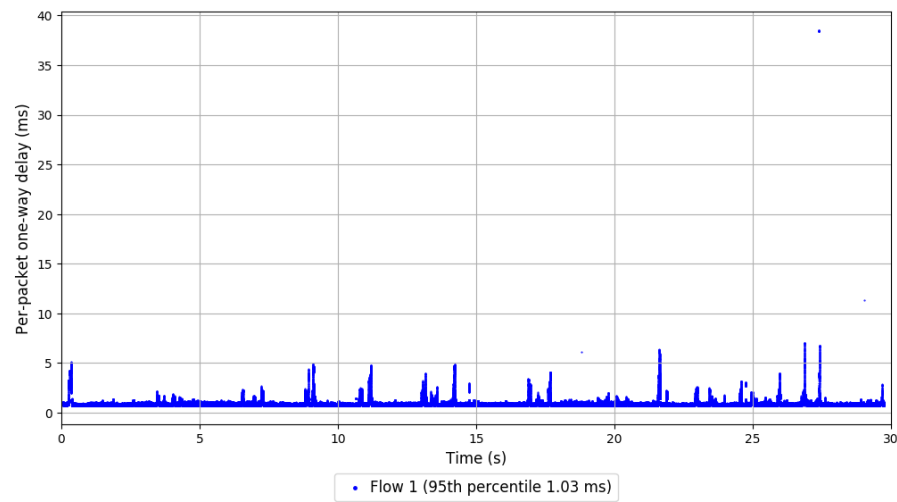
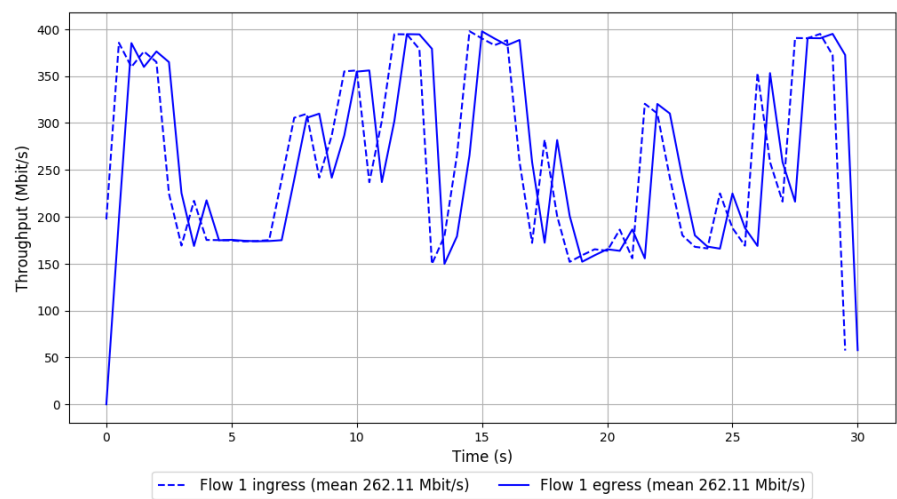
-- Flow 1:

Average throughput: 262.11 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-02 18:03:41

End at: 2019-10-02 18:04:11

Local clock offset: 4.261 ms

Remote clock offset: 3.548 ms

# Below is generated by plot.py at 2019-10-02 20:46:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.74 Mbit/s

95th percentile per-packet one-way delay: 2.834 ms

Loss rate: 0.00%

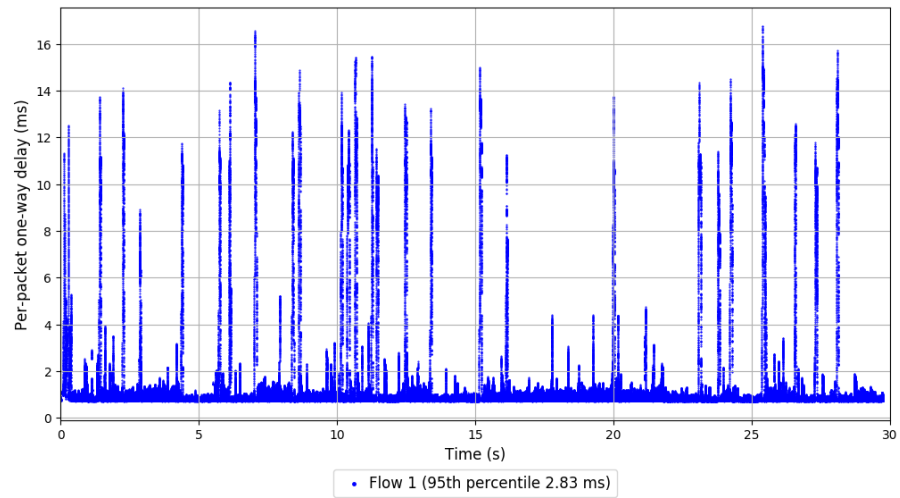
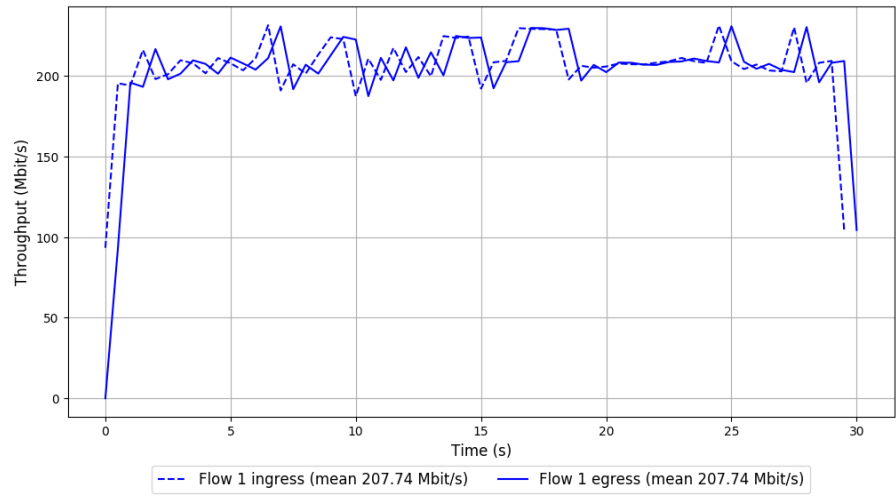
-- Flow 1:

Average throughput: 207.74 Mbit/s

95th percentile per-packet one-way delay: 2.834 ms

Loss rate: 0.00%

## Run 2: Report of Indigo — Data Link

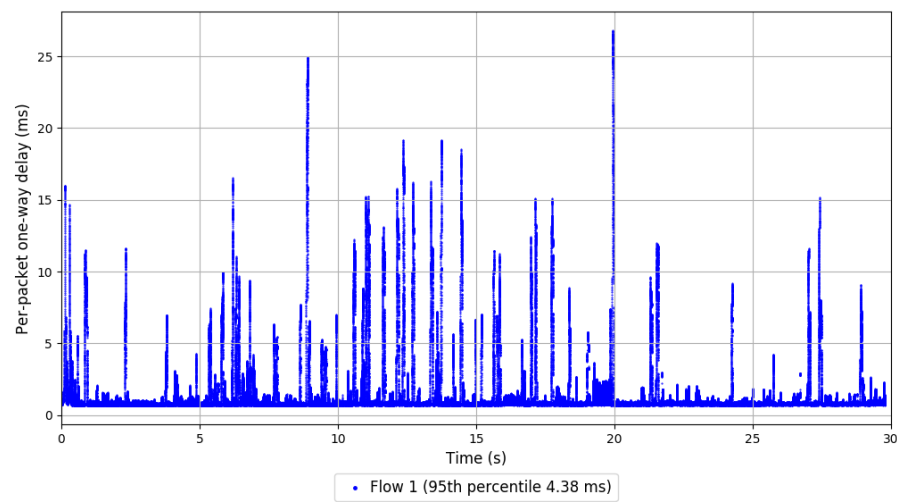
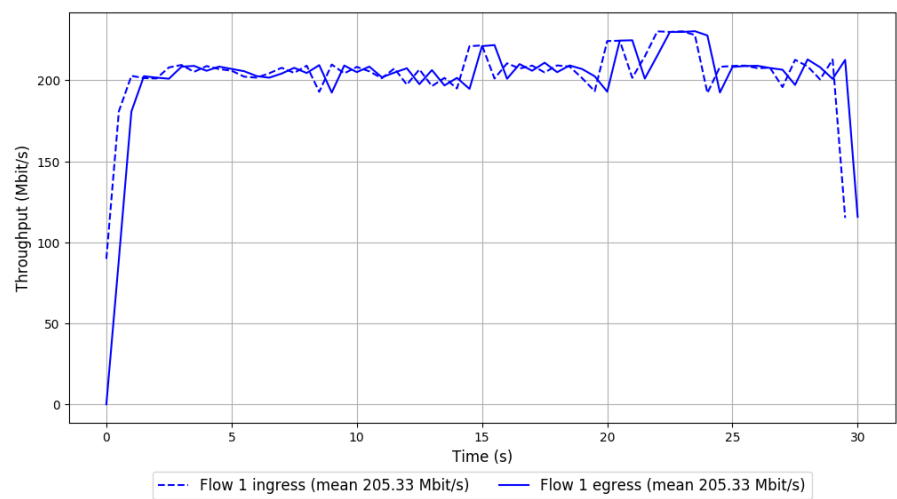


Run 3: Statistics of Indigo

Start at: 2019-10-02 18:36:37  
End at: 2019-10-02 18:37:07  
Local clock offset: 4.491 ms  
Remote clock offset: -0.431 ms

# Below is generated by plot.py at 2019-10-02 20:46:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 205.33 Mbit/s  
95th percentile per-packet one-way delay: 4.383 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 205.33 Mbit/s  
95th percentile per-packet one-way delay: 4.383 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



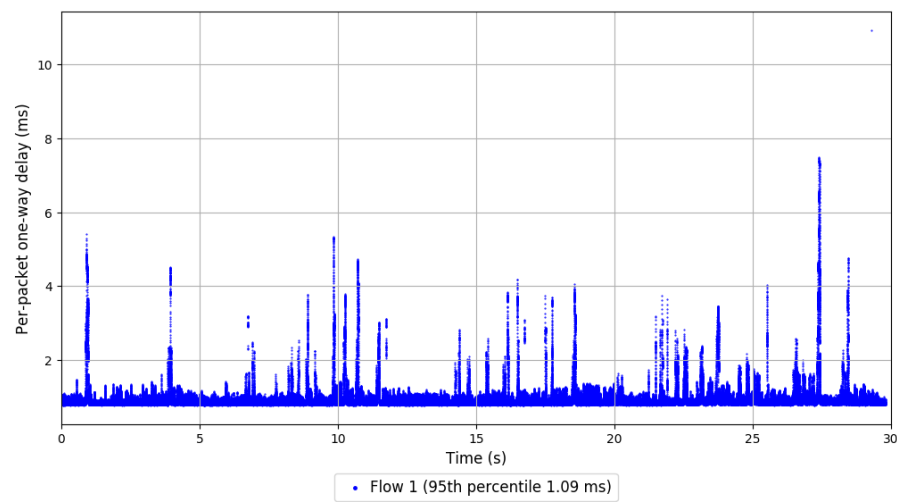
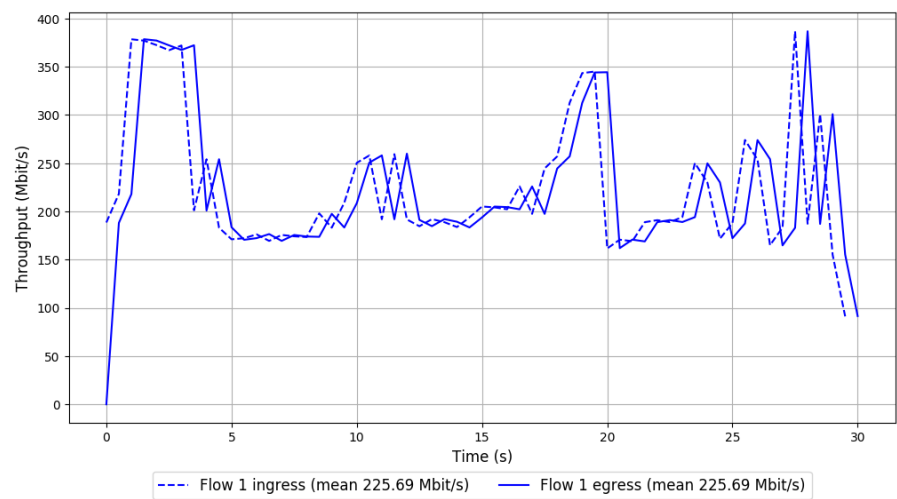


Run 4: Statistics of Indigo

Start at: 2019-10-02 19:10:35  
End at: 2019-10-02 19:11:05  
Local clock offset: 4.305 ms  
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2019-10-02 20:46:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 225.69 Mbit/s  
95th percentile per-packet one-way delay: 1.092 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 225.69 Mbit/s  
95th percentile per-packet one-way delay: 1.092 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

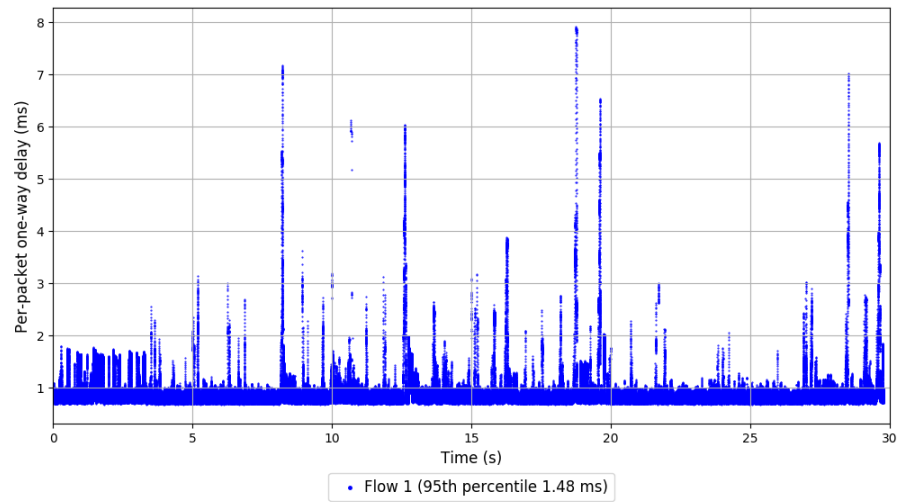
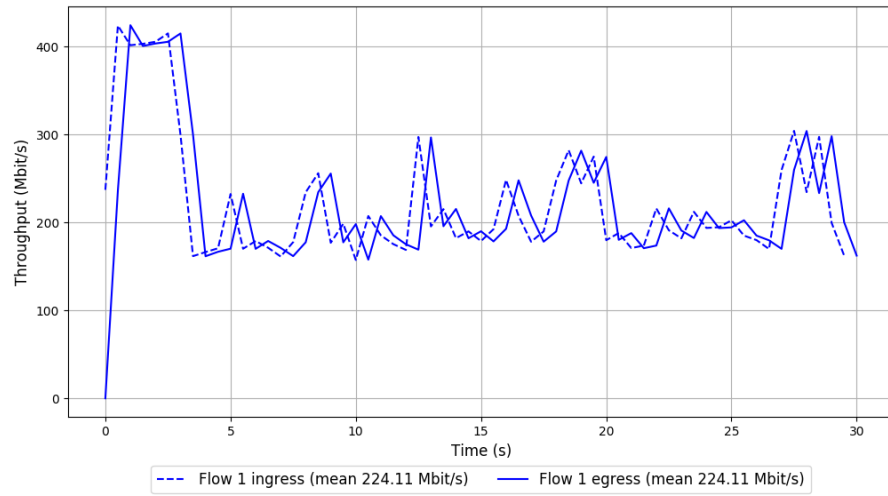


Run 5: Statistics of Indigo

Start at: 2019-10-02 19:43:57  
End at: 2019-10-02 19:44:27  
Local clock offset: 4.55 ms  
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-10-02 20:46:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 224.11 Mbit/s  
95th percentile per-packet one-way delay: 1.475 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 224.11 Mbit/s  
95th percentile per-packet one-way delay: 1.475 ms  
Loss rate: 0.00%

## Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-02 17:51:10

End at: 2019-10-02 17:51:40

Local clock offset: 4.218 ms

Remote clock offset: 3.389 ms

# Below is generated by plot.py at 2019-10-02 20:46:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 188.57 Mbit/s

95th percentile per-packet one-way delay: 1.441 ms

Loss rate: 0.03%

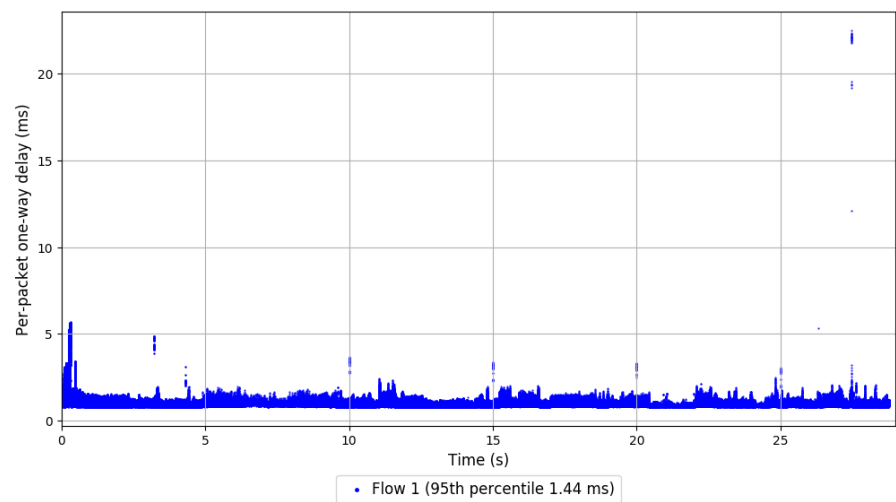
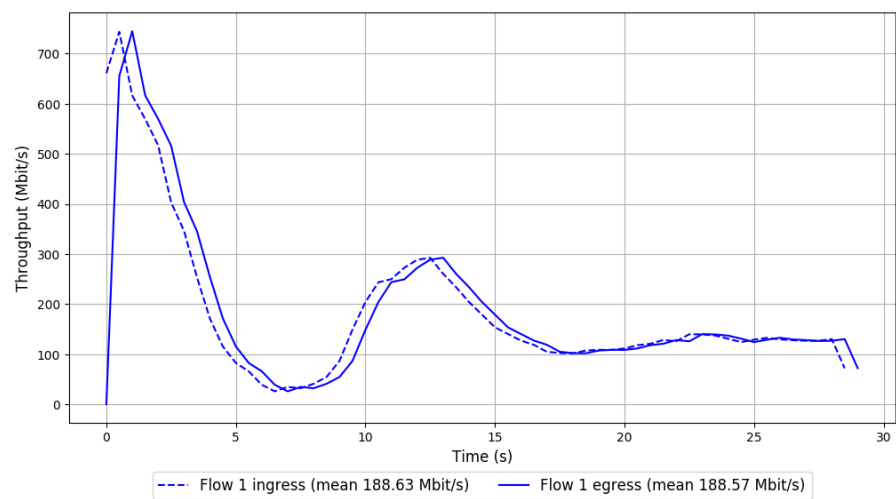
-- Flow 1:

Average throughput: 188.57 Mbit/s

95th percentile per-packet one-way delay: 1.441 ms

Loss rate: 0.03%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-02 18:23:38

End at: 2019-10-02 18:24:08

Local clock offset: 4.701 ms

Remote clock offset: 0.718 ms

# Below is generated by plot.py at 2019-10-02 20:46:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 142.34 Mbit/s

95th percentile per-packet one-way delay: 1.454 ms

Loss rate: 0.00%

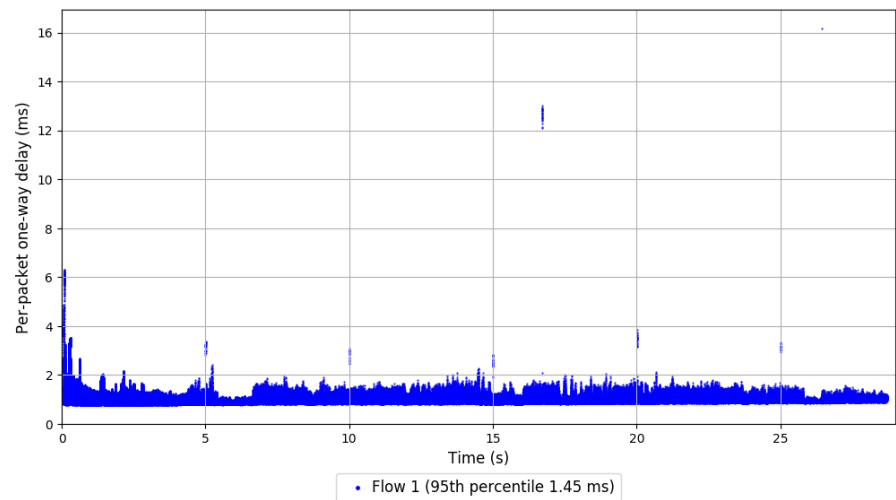
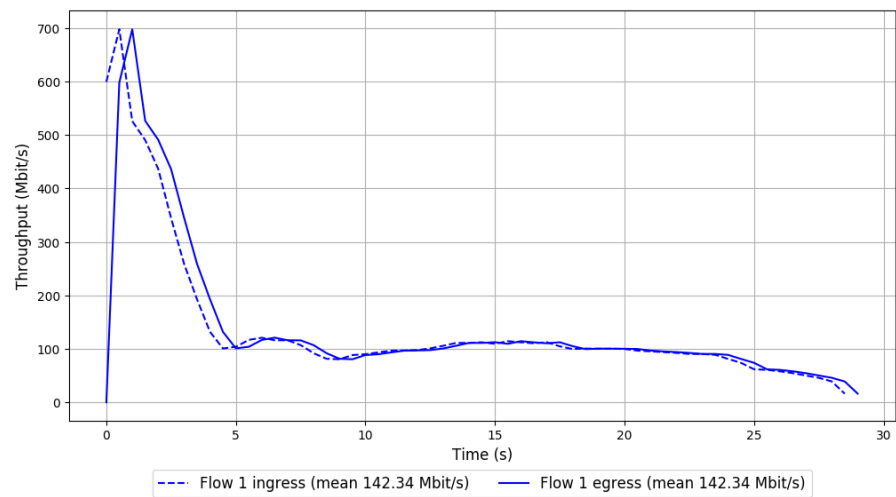
-- Flow 1:

Average throughput: 142.34 Mbit/s

95th percentile per-packet one-way delay: 1.454 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



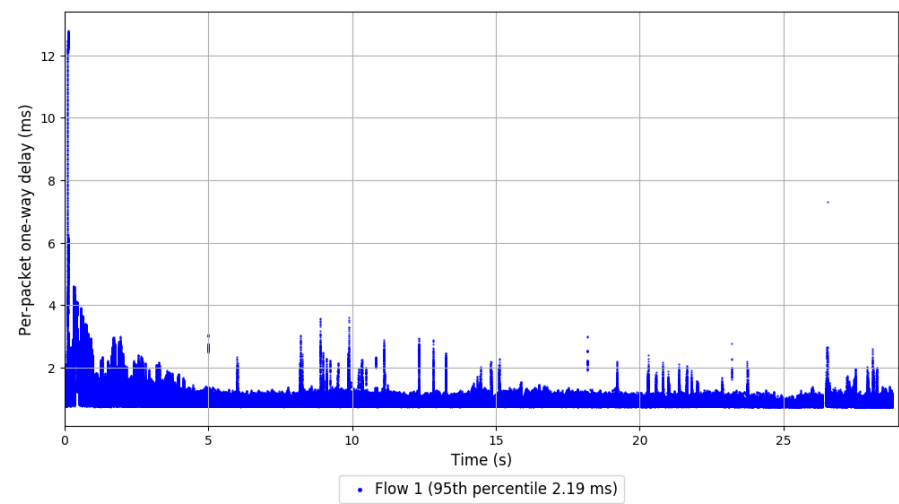
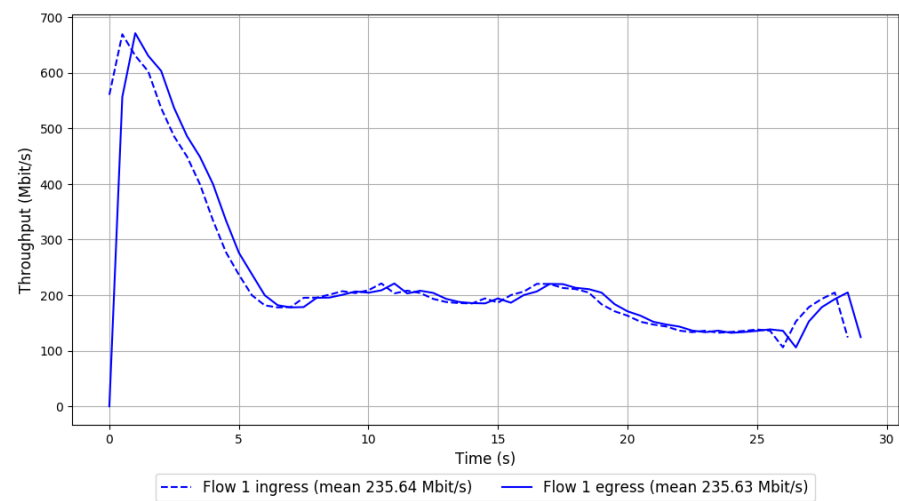


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-02 18:57:14  
End at: 2019-10-02 18:57:44  
Local clock offset: 4.596 ms  
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2019-10-02 20:46:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 235.63 Mbit/s  
95th percentile per-packet one-way delay: 2.190 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 235.63 Mbit/s  
95th percentile per-packet one-way delay: 2.190 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link

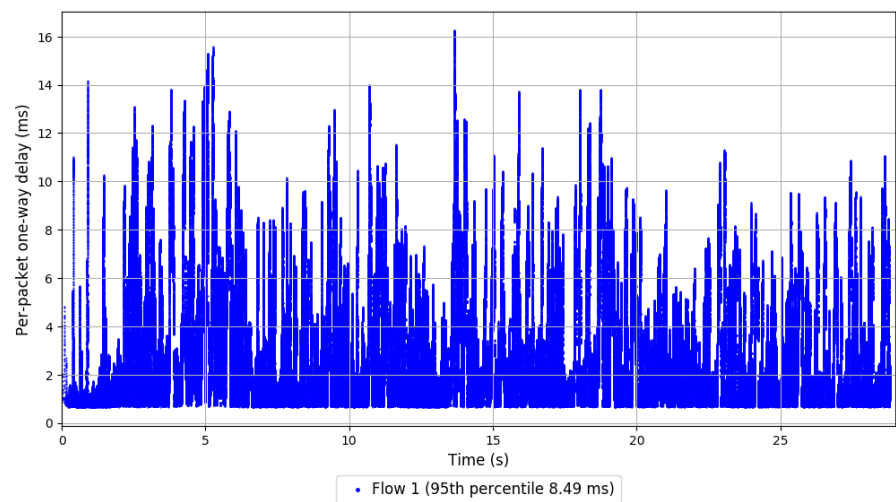
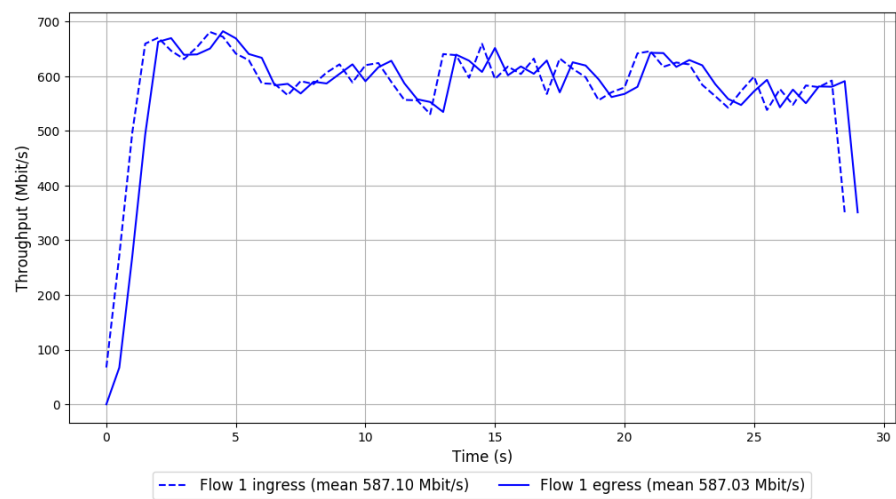


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-02 19:30:27  
End at: 2019-10-02 19:30:57  
Local clock offset: 4.406 ms  
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2019-10-02 20:46:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 587.03 Mbit/s  
95th percentile per-packet one-way delay: 8.493 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 587.03 Mbit/s  
95th percentile per-packet one-way delay: 8.493 ms  
Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link

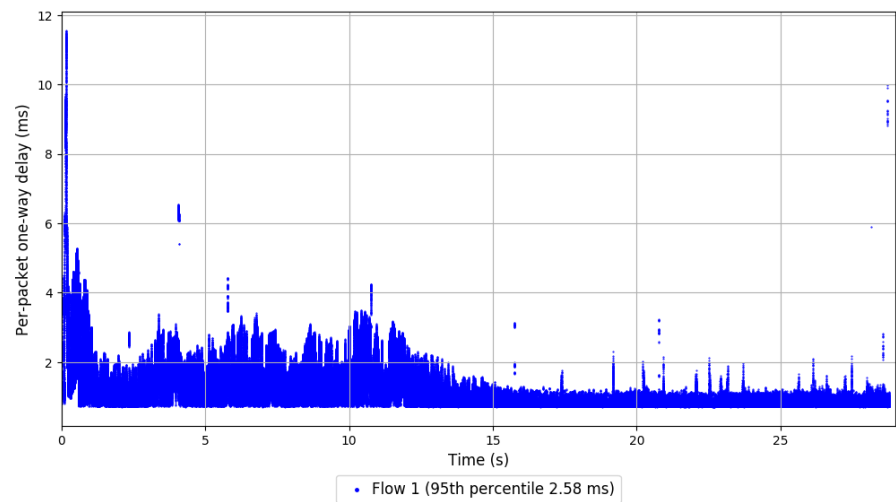
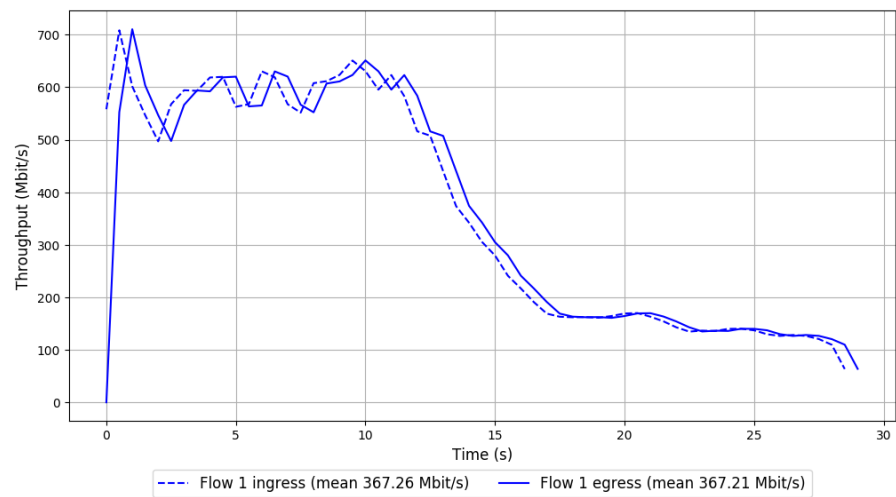


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-02 20:04:05  
End at: 2019-10-02 20:04:35  
Local clock offset: 3.977 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-10-02 20:46:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 367.21 Mbit/s  
95th percentile per-packet one-way delay: 2.576 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 367.21 Mbit/s  
95th percentile per-packet one-way delay: 2.576 ms  
Loss rate: 0.01%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-02 17:55:21

End at: 2019-10-02 17:55:51

Local clock offset: 4.314 ms

Remote clock offset: 3.385 ms

# Below is generated by plot.py at 2019-10-02 20:46:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 271.47 Mbit/s

95th percentile per-packet one-way delay: 1.349 ms

Loss rate: 0.00%

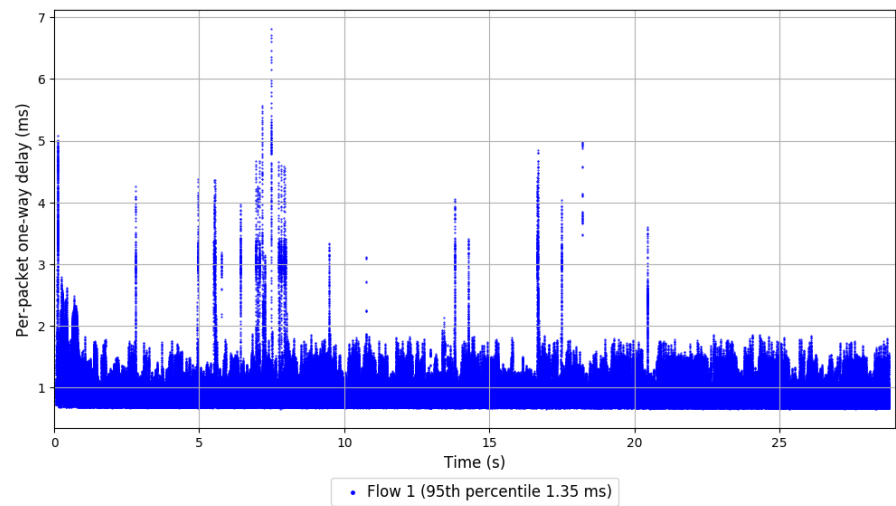
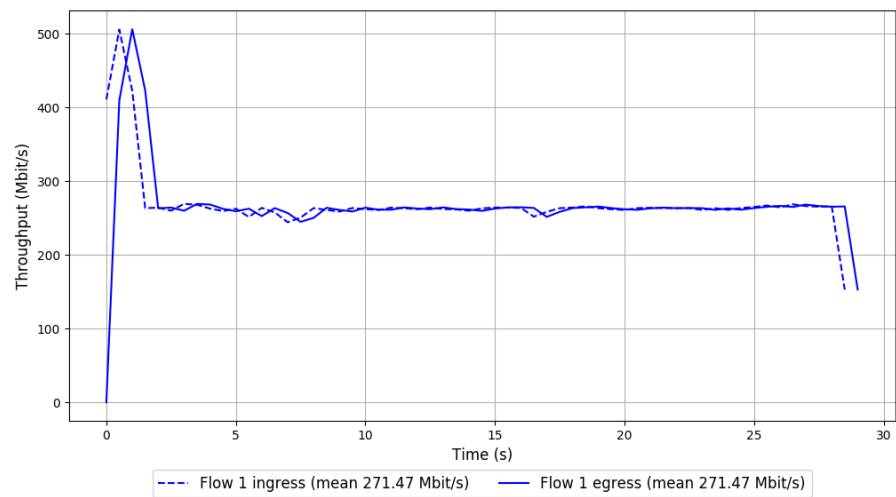
-- Flow 1:

Average throughput: 271.47 Mbit/s

95th percentile per-packet one-way delay: 1.349 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-02 18:27:46

End at: 2019-10-02 18:28:16

Local clock offset: 4.601 ms

Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2019-10-02 20:48:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 595.79 Mbit/s

95th percentile per-packet one-way delay: 10.412 ms

Loss rate: 0.05%

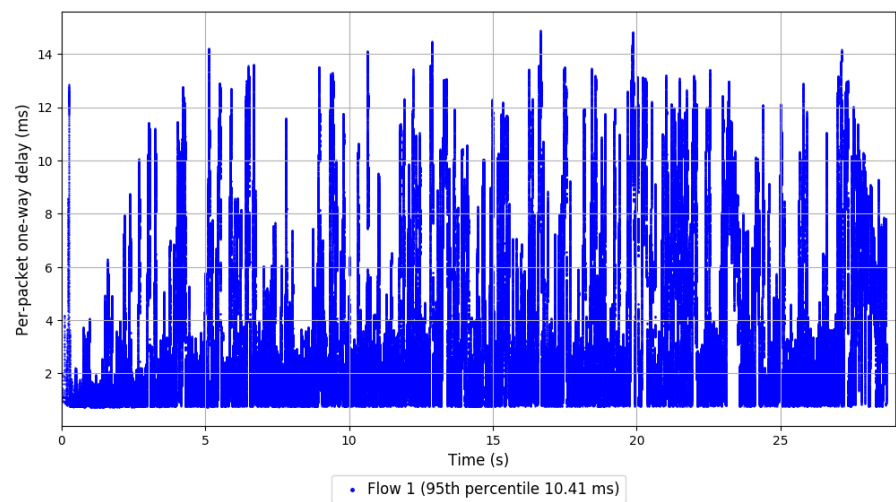
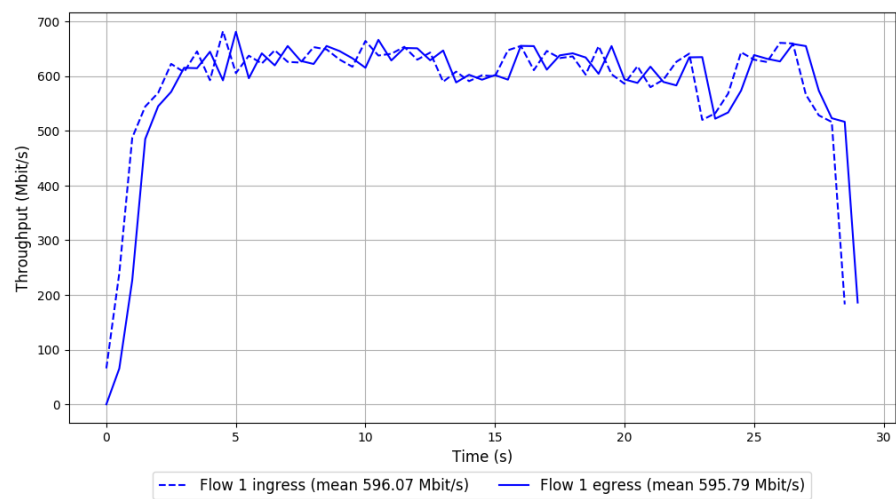
-- Flow 1:

Average throughput: 595.79 Mbit/s

95th percentile per-packet one-way delay: 10.412 ms

Loss rate: 0.05%

Run 2: Report of Indigo-MusesC5 — Data Link

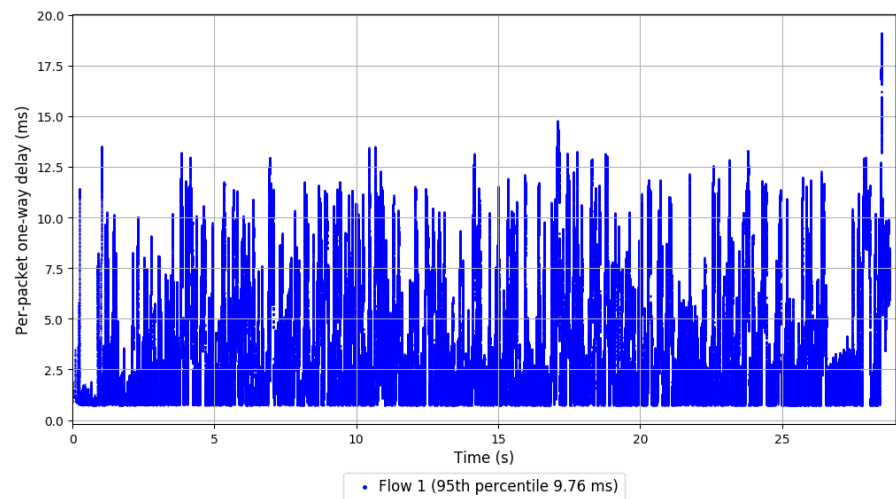
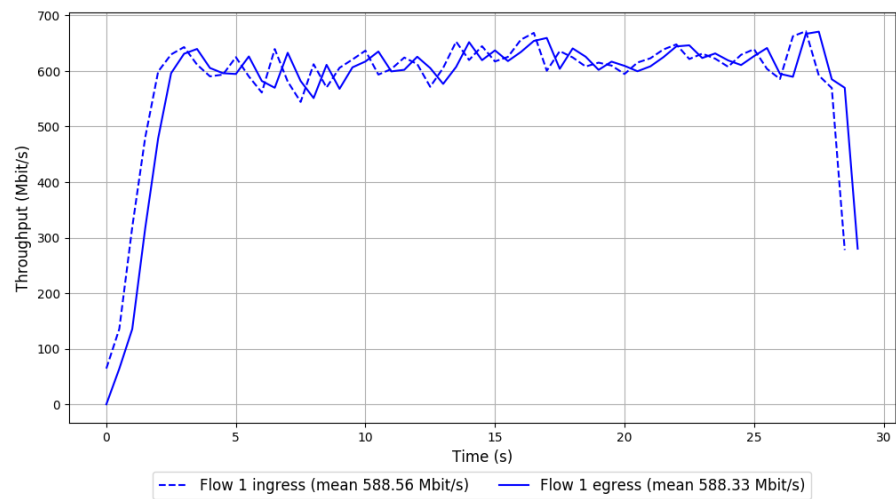


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-02 19:01:32  
End at: 2019-10-02 19:02:02  
Local clock offset: 4.441 ms  
Remote clock offset: -0.261 ms

# Below is generated by plot.py at 2019-10-02 20:48:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 588.33 Mbit/s  
95th percentile per-packet one-way delay: 9.758 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 588.33 Mbit/s  
95th percentile per-packet one-way delay: 9.758 ms  
Loss rate: 0.04%

Run 3: Report of Indigo-MusesC5 — Data Link

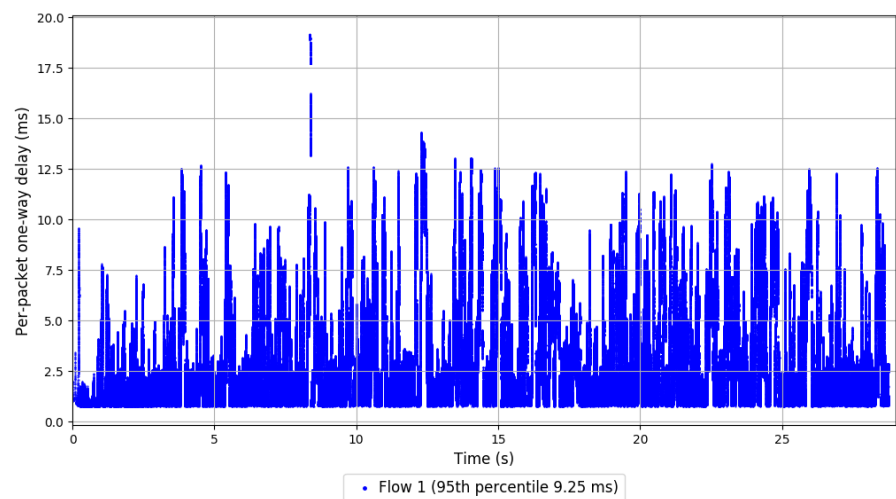
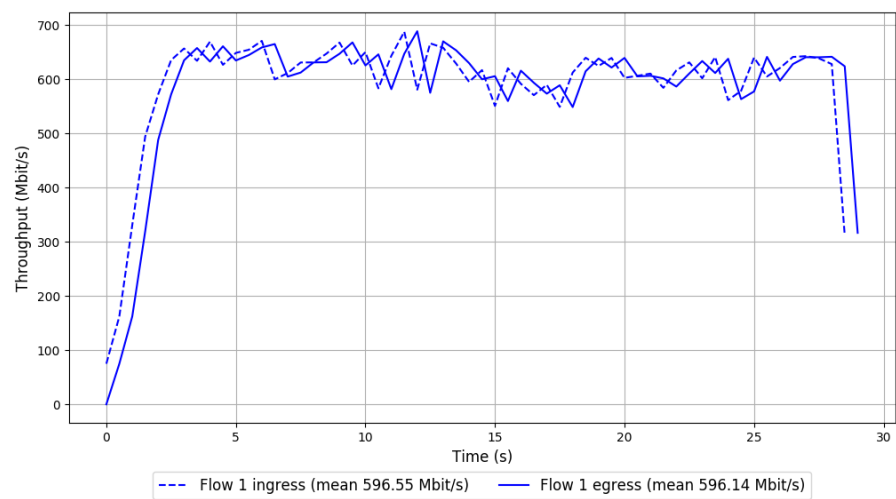


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-02 19:34:52  
End at: 2019-10-02 19:35:22  
Local clock offset: 4.453 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-10-02 20:49:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 596.14 Mbit/s  
95th percentile per-packet one-way delay: 9.248 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 596.14 Mbit/s  
95th percentile per-packet one-way delay: 9.248 ms  
Loss rate: 0.07%

Run 4: Report of Indigo-MusesC5 — Data Link

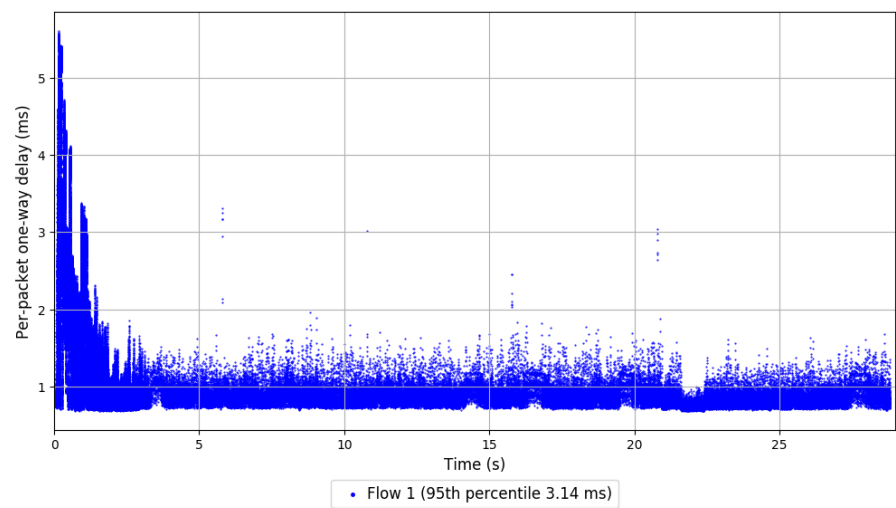
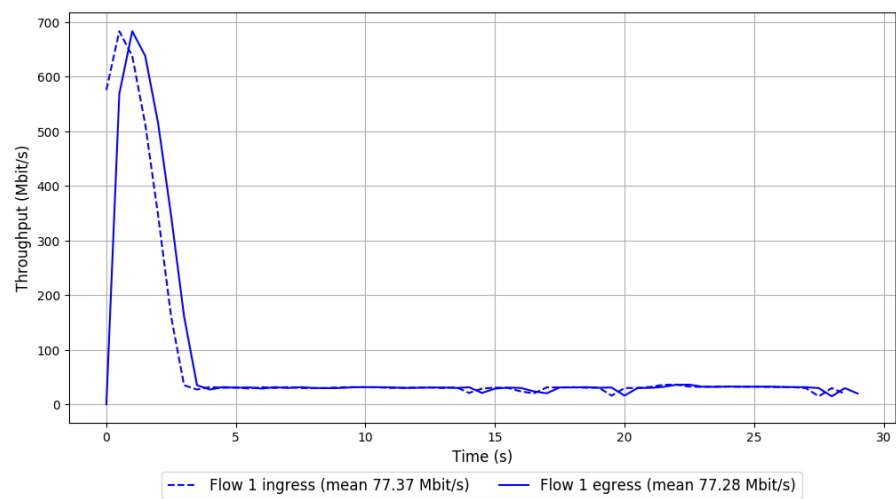


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-02 20:08:17  
End at: 2019-10-02 20:08:47  
Local clock offset: 3.809 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-10-02 20:49:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.28 Mbit/s  
95th percentile per-packet one-way delay: 3.144 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 77.28 Mbit/s  
95th percentile per-packet one-way delay: 3.144 ms  
Loss rate: 0.12%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-02 17:56:42

End at: 2019-10-02 17:57:12

Local clock offset: 4.256 ms

Remote clock offset: 3.431 ms

# Below is generated by plot.py at 2019-10-02 20:49:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 358.13 Mbit/s

95th percentile per-packet one-way delay: 7.726 ms

Loss rate: 0.05%

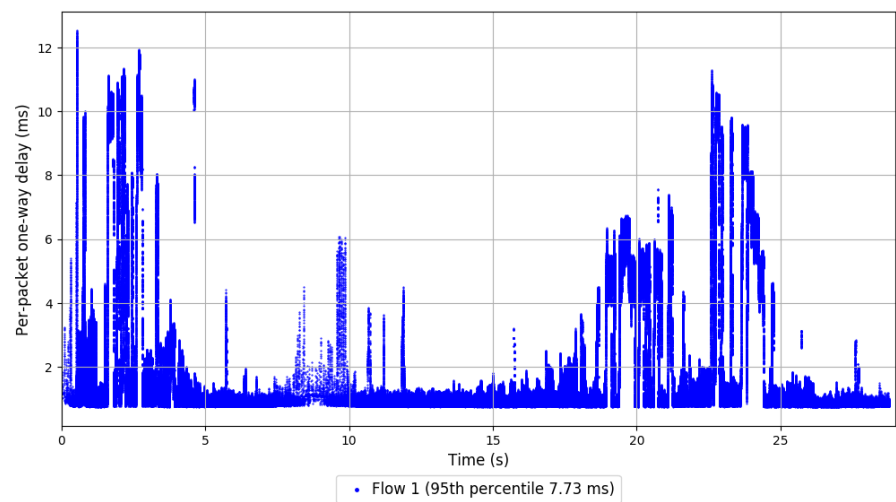
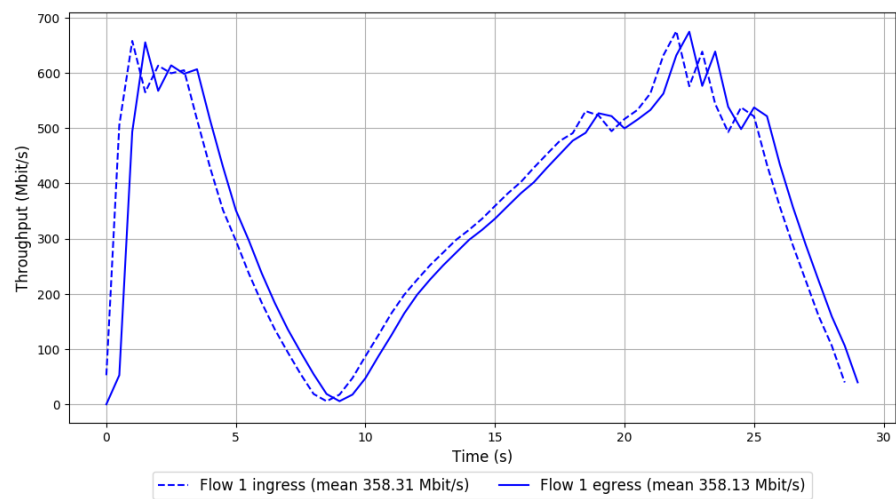
-- Flow 1:

Average throughput: 358.13 Mbit/s

95th percentile per-packet one-way delay: 7.726 ms

Loss rate: 0.05%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-02 18:29:18

End at: 2019-10-02 18:29:48

Local clock offset: 4.557 ms

Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2019-10-02 20:51:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 583.56 Mbit/s

95th percentile per-packet one-way delay: 11.490 ms

Loss rate: 0.03%

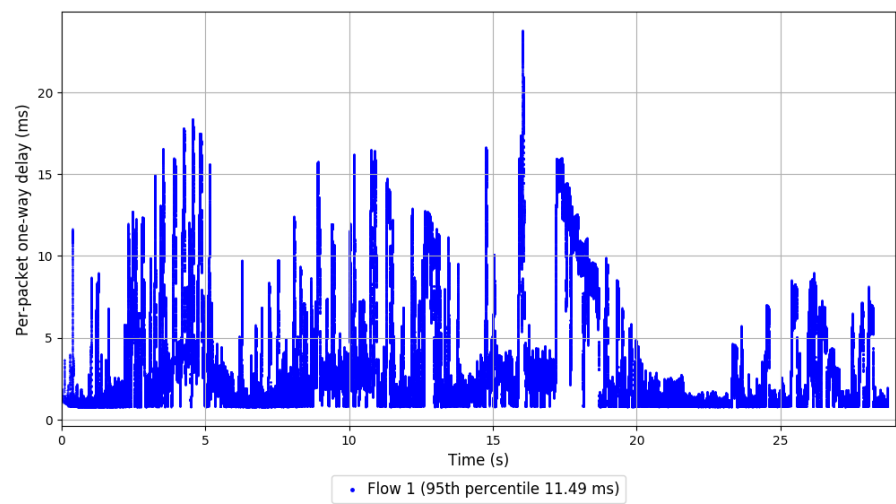
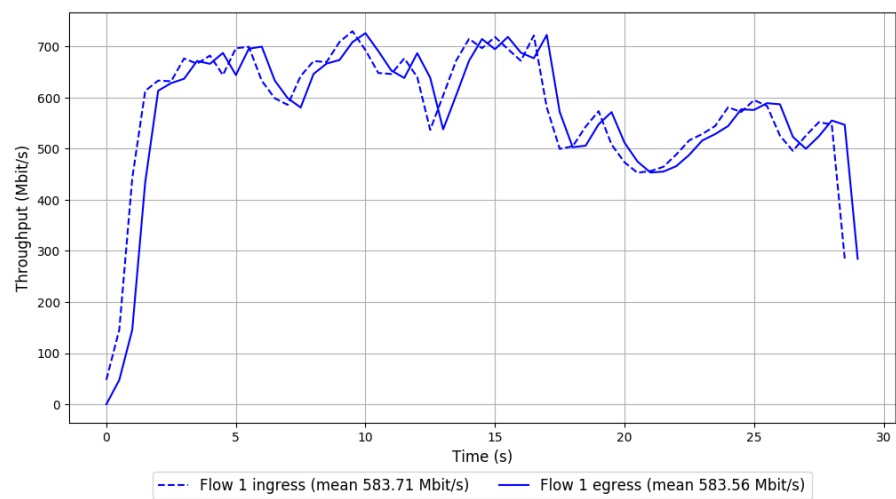
-- Flow 1:

Average throughput: 583.56 Mbit/s

95th percentile per-packet one-way delay: 11.490 ms

Loss rate: 0.03%

Run 2: Report of Indigo-MusesD — Data Link

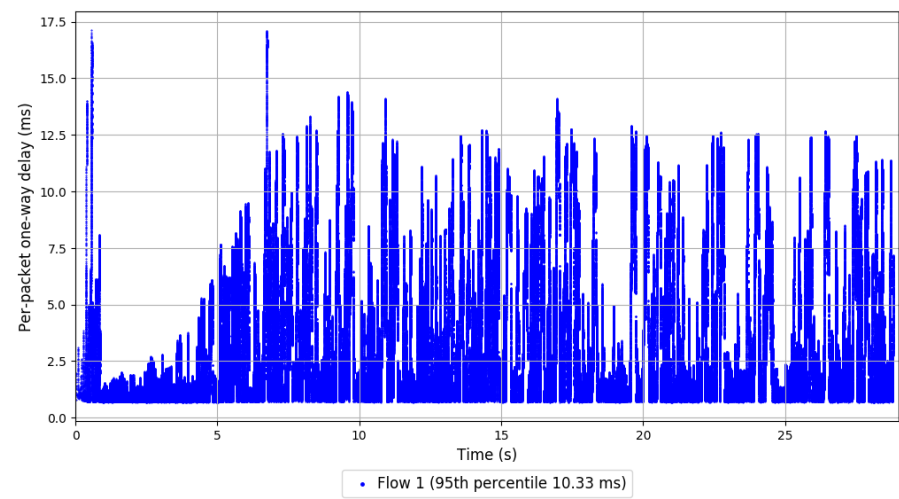
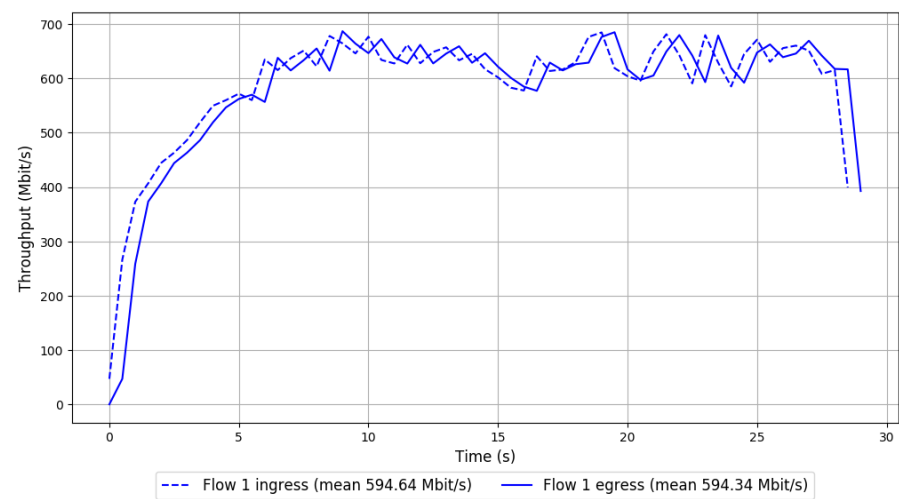


Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-02 19:03:03  
End at: 2019-10-02 19:03:34  
Local clock offset: 4.402 ms  
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2019-10-02 20:52:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 594.34 Mbit/s  
95th percentile per-packet one-way delay: 10.332 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 594.34 Mbit/s  
95th percentile per-packet one-way delay: 10.332 ms  
Loss rate: 0.05%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-02 19:36:24

End at: 2019-10-02 19:36:54

Local clock offset: 4.479 ms

Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-10-02 20:52:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 593.06 Mbit/s

95th percentile per-packet one-way delay: 11.118 ms

Loss rate: 0.02%

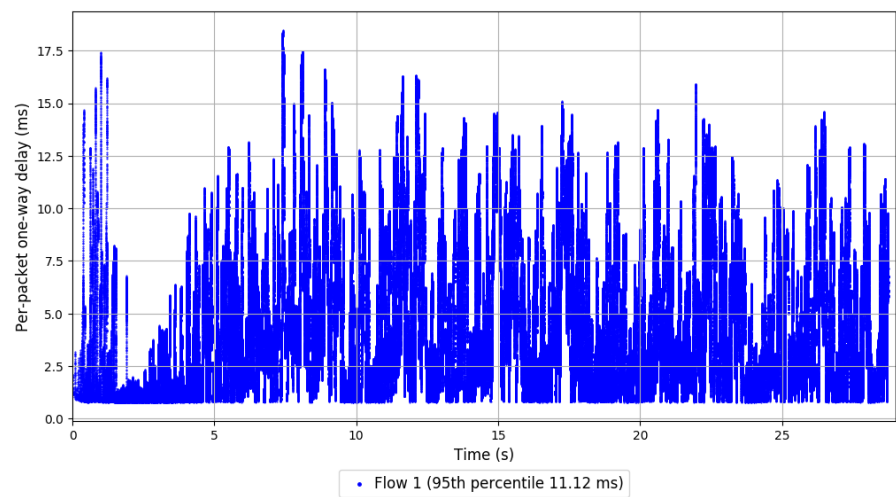
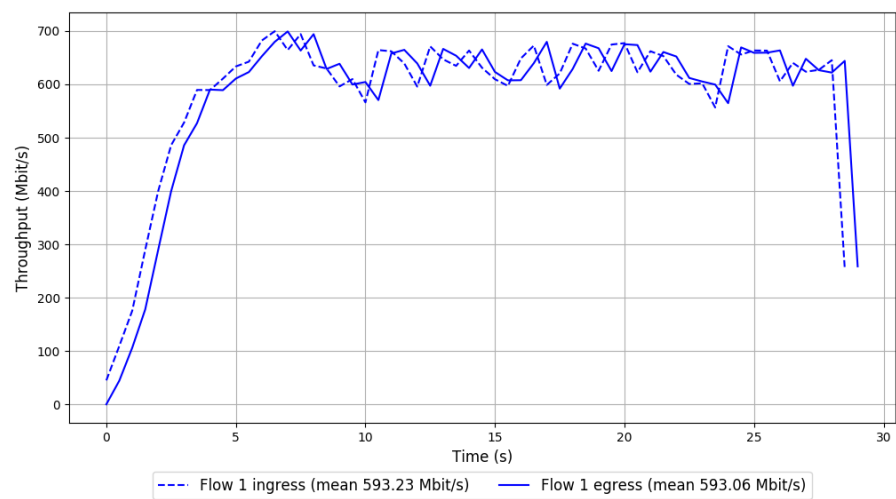
-- Flow 1:

Average throughput: 593.06 Mbit/s

95th percentile per-packet one-way delay: 11.118 ms

Loss rate: 0.02%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-02 20:09:33

End at: 2019-10-02 20:10:03

Local clock offset: 3.766 ms

Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-10-02 20:53:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 564.10 Mbit/s

95th percentile per-packet one-way delay: 9.871 ms

Loss rate: 0.02%

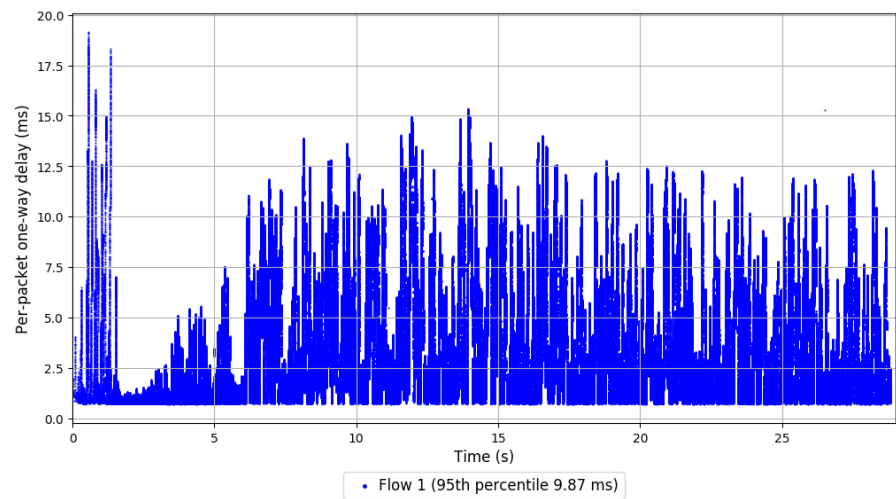
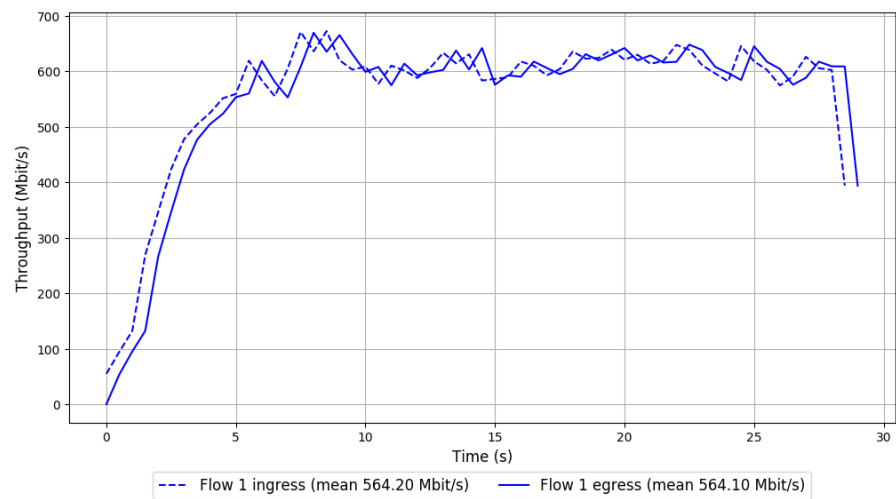
-- Flow 1:

Average throughput: 564.10 Mbit/s

95th percentile per-packet one-way delay: 9.871 ms

Loss rate: 0.02%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-02 17:53:56

End at: 2019-10-02 17:54:26

Local clock offset: 4.269 ms

Remote clock offset: 3.4 ms

# Below is generated by plot.py at 2019-10-02 20:53:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 378.05 Mbit/s

95th percentile per-packet one-way delay: 1.444 ms

Loss rate: 0.00%

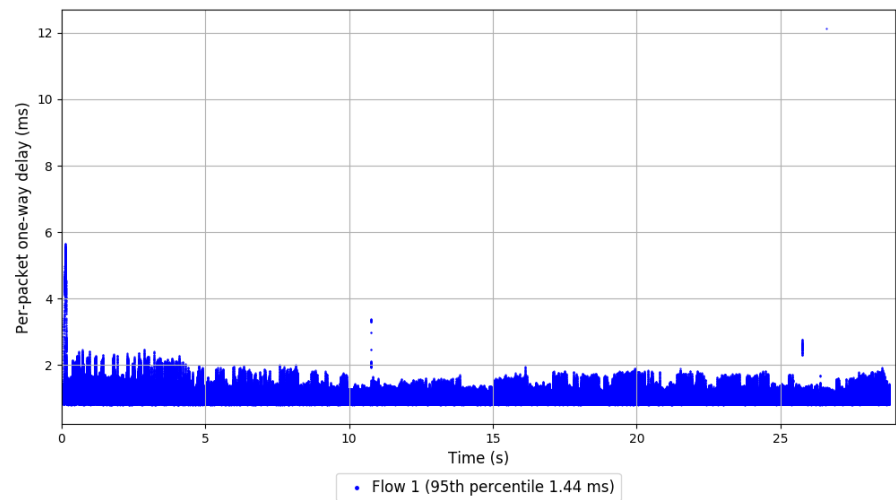
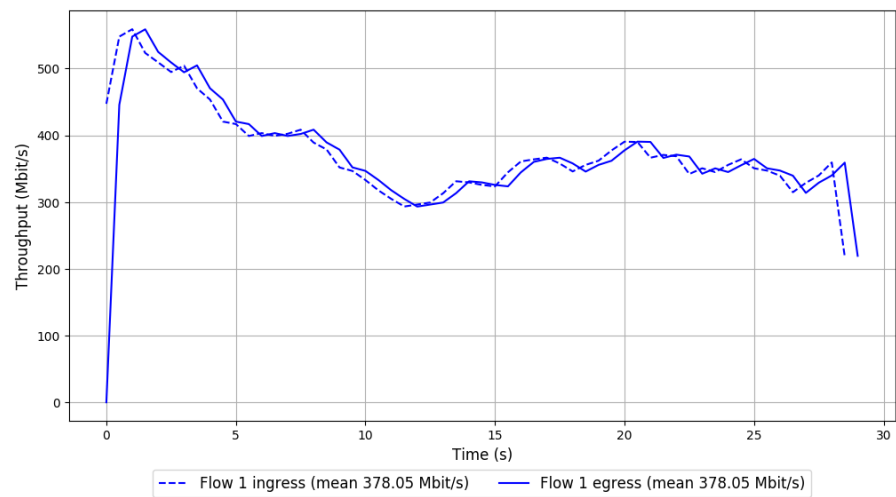
-- Flow 1:

Average throughput: 378.05 Mbit/s

95th percentile per-packet one-way delay: 1.444 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-02 18:26:24

End at: 2019-10-02 18:26:54

Local clock offset: 4.65 ms

Remote clock offset: 0.307 ms

# Below is generated by plot.py at 2019-10-02 20:53:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 251.72 Mbit/s

95th percentile per-packet one-way delay: 1.401 ms

Loss rate: 0.00%

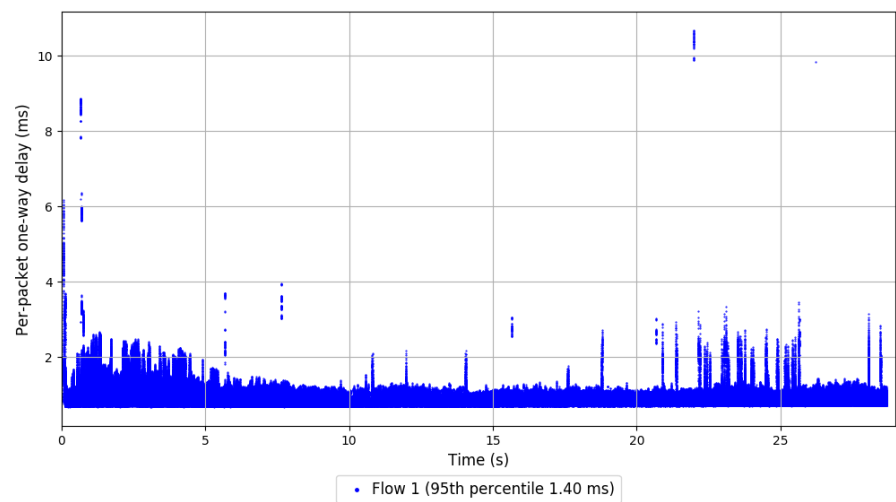
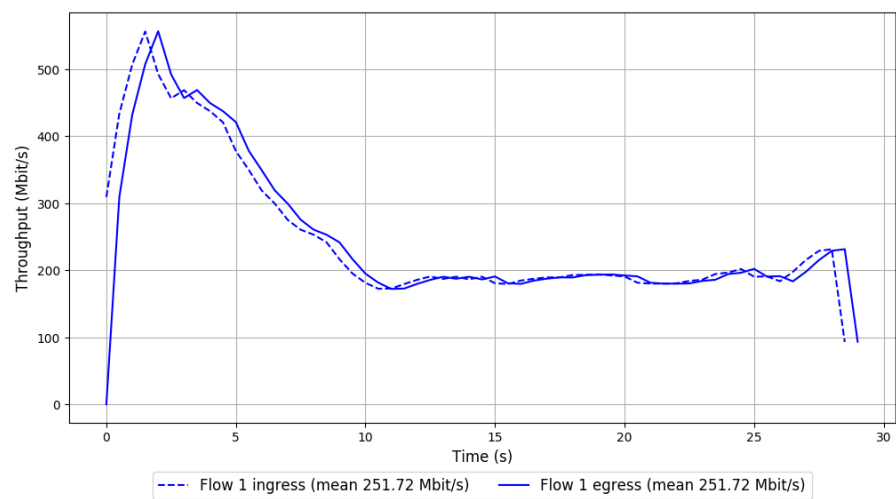
-- Flow 1:

Average throughput: 251.72 Mbit/s

95th percentile per-packet one-way delay: 1.401 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-02 19:00:06

End at: 2019-10-02 19:00:37

Local clock offset: 4.485 ms

Remote clock offset: -0.34 ms

# Below is generated by plot.py at 2019-10-02 20:53:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 379.09 Mbit/s

95th percentile per-packet one-way delay: 1.398 ms

Loss rate: 0.00%

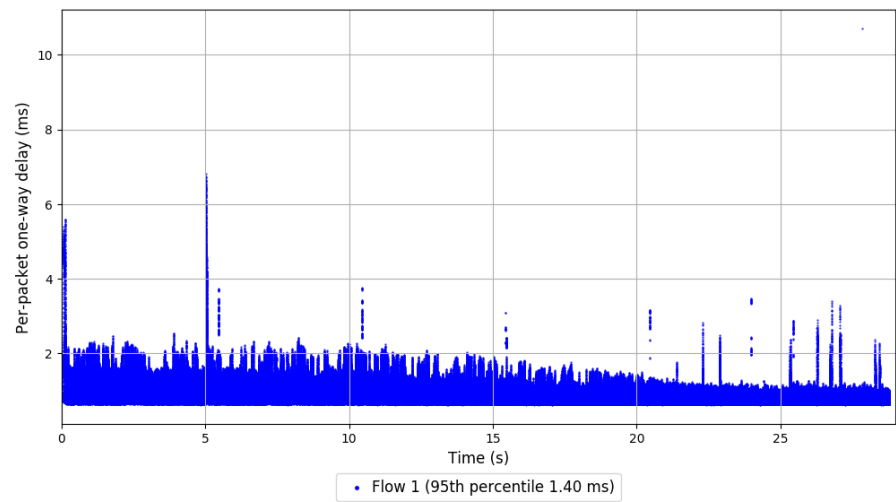
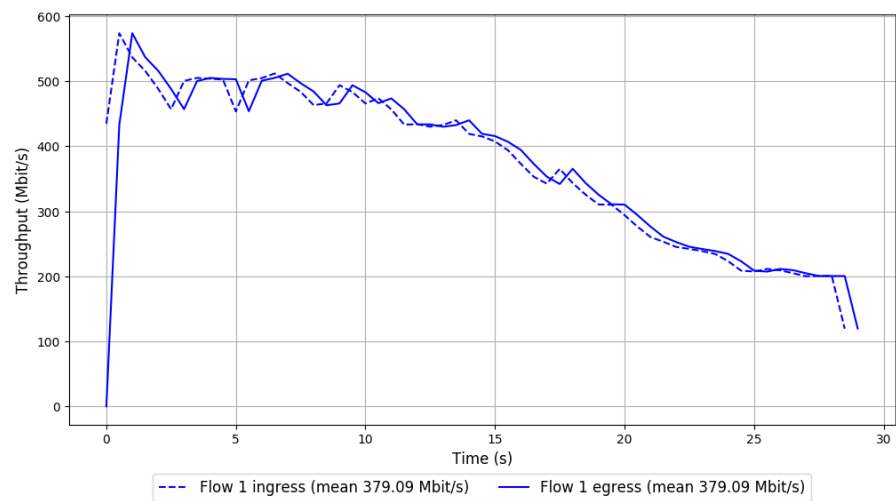
-- Flow 1:

Average throughput: 379.09 Mbit/s

95th percentile per-packet one-way delay: 1.398 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-02 19:33:32

End at: 2019-10-02 19:34:02

Local clock offset: 4.435 ms

Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2019-10-02 20:53:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.00 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

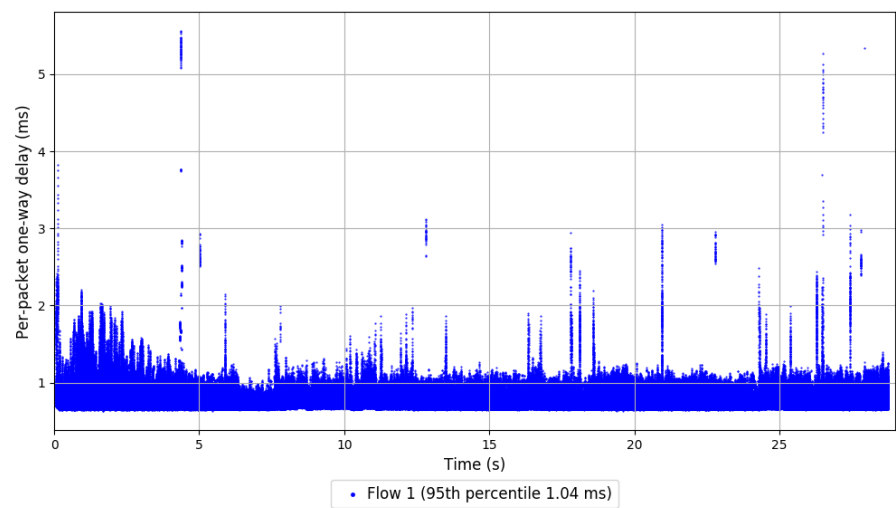
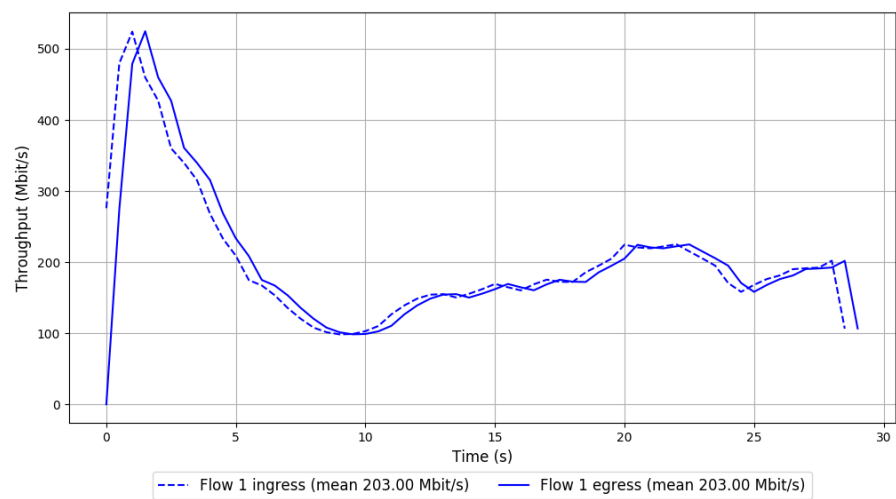
-- Flow 1:

Average throughput: 203.00 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-02 20:06:44

End at: 2019-10-02 20:07:15

Local clock offset: 3.864 ms

Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-10-02 20:58:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 609.40 Mbit/s

95th percentile per-packet one-way delay: 12.312 ms

Loss rate: 0.04%

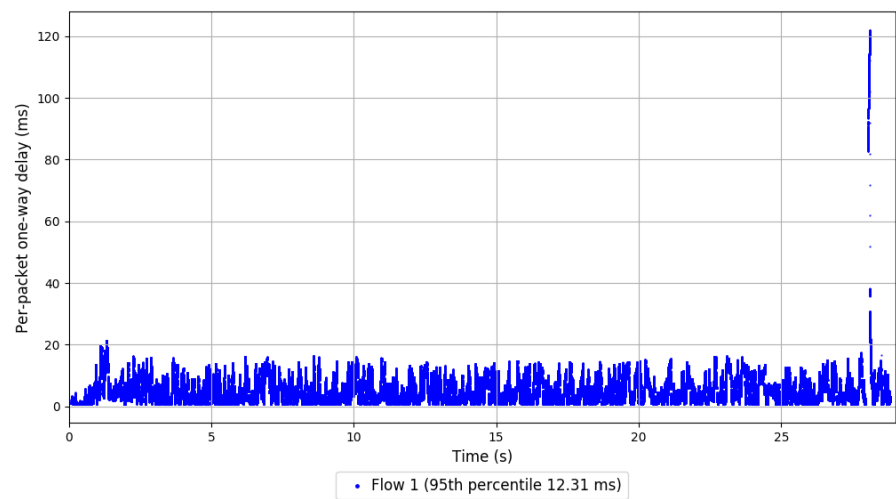
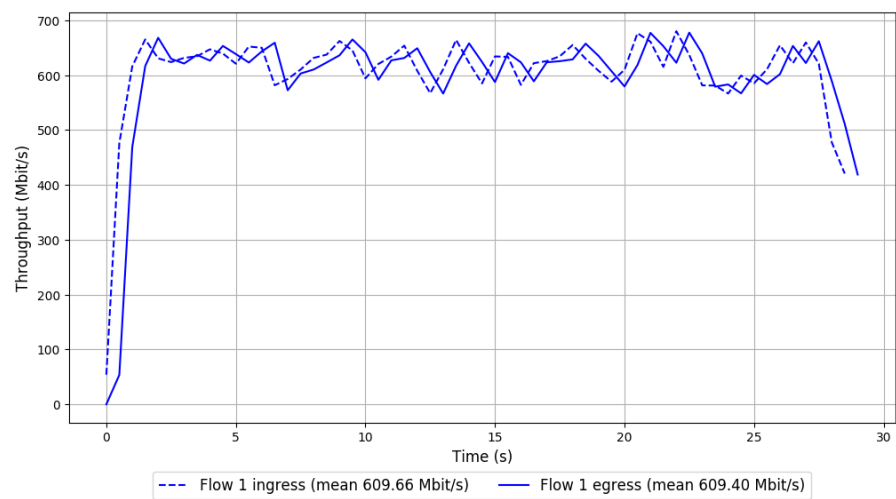
-- Flow 1:

Average throughput: 609.40 Mbit/s

95th percentile per-packet one-way delay: 12.312 ms

Loss rate: 0.04%

Run 5: Report of Indigo-MusesT — Data Link

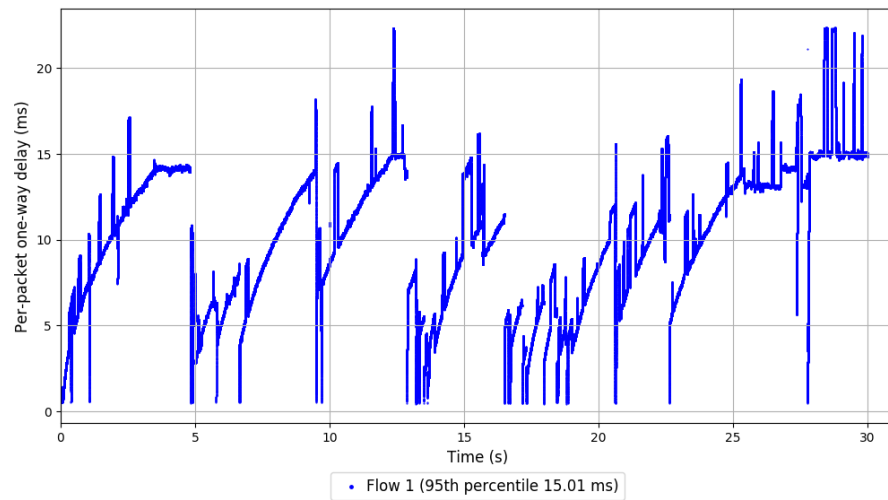
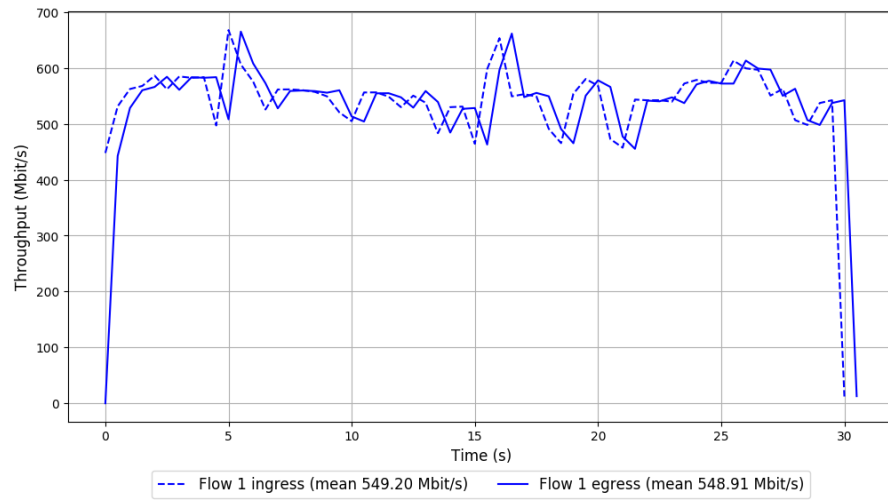


```
Run 1: Statistics of LEDBAT

Start at: 2019-10-02 17:29:30
End at: 2019-10-02 17:30:00
Local clock offset: 4.793 ms
Remote clock offset: 3.279 ms

# Below is generated by plot.py at 2019-10-02 20:58:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.91 Mbit/s
95th percentile per-packet one-way delay: 15.011 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 548.91 Mbit/s
95th percentile per-packet one-way delay: 15.011 ms
Loss rate: 0.05%
```

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



Run 2: Statistics of LEDBAT

Start at: 2019-10-02 18:02:12

End at: 2019-10-02 18:02:42

Local clock offset: 4.274 ms

Remote clock offset: 3.478 ms

# Below is generated by plot.py at 2019-10-02 20:58:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 356.99 Mbit/s

95th percentile per-packet one-way delay: 4.582 ms

Loss rate: 0.01%

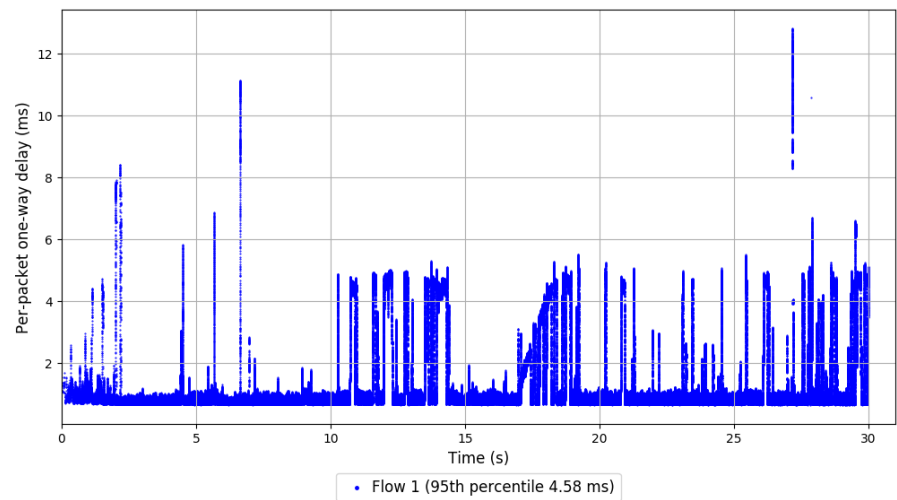
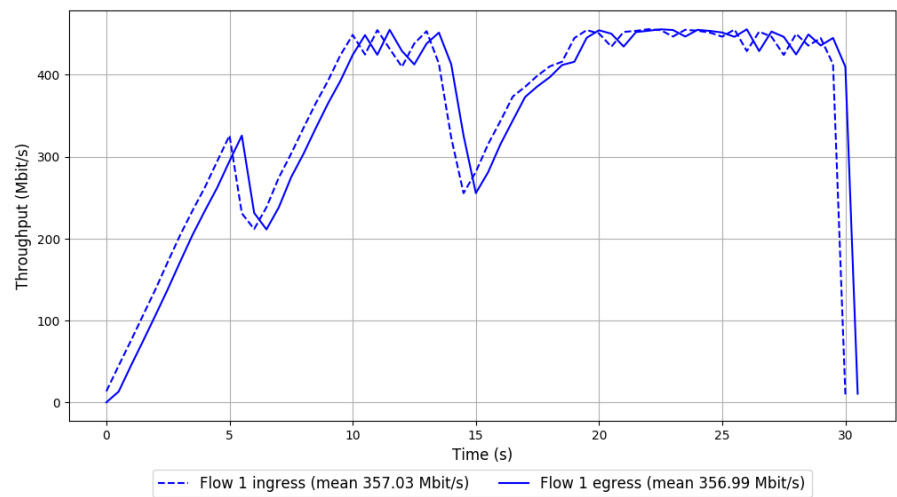
-- Flow 1:

Average throughput: 356.99 Mbit/s

95th percentile per-packet one-way delay: 4.582 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link



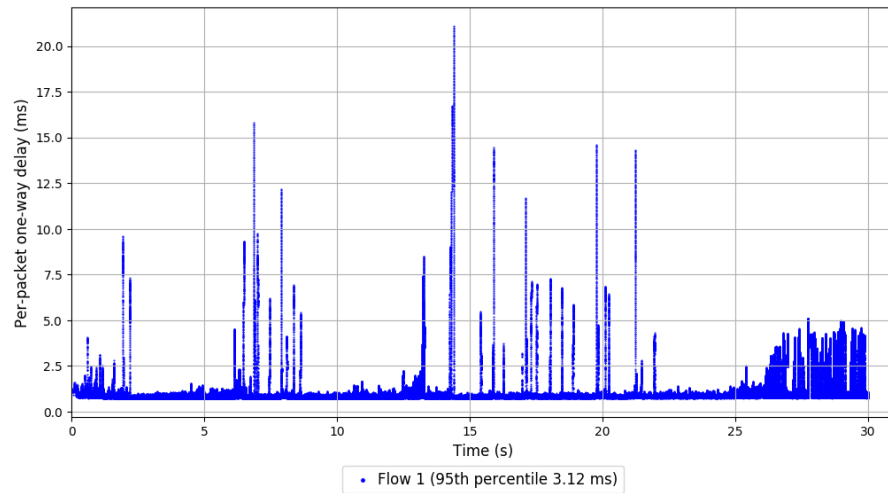
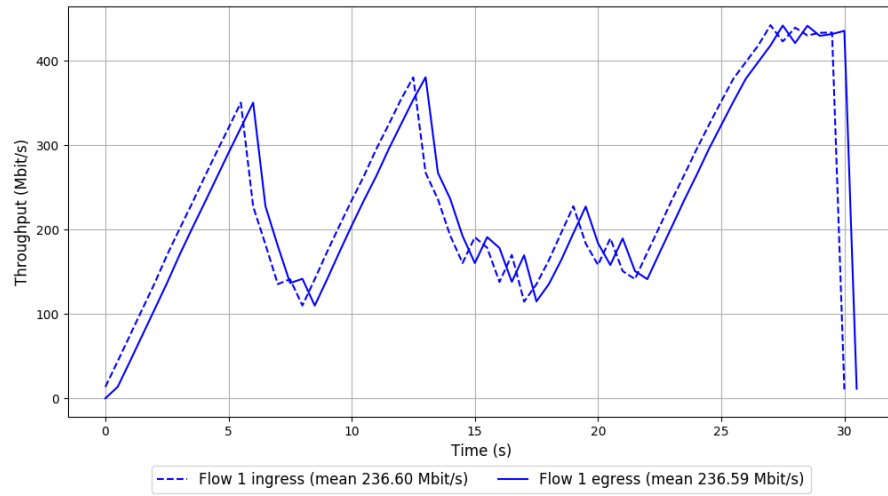


Run 3: Statistics of LEDBAT

Start at: 2019-10-02 18:35:14  
End at: 2019-10-02 18:35:44  
Local clock offset: 4.502 ms  
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-10-02 20:58:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 236.59 Mbit/s  
95th percentile per-packet one-way delay: 3.123 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 236.59 Mbit/s  
95th percentile per-packet one-way delay: 3.123 ms  
Loss rate: 0.00%

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

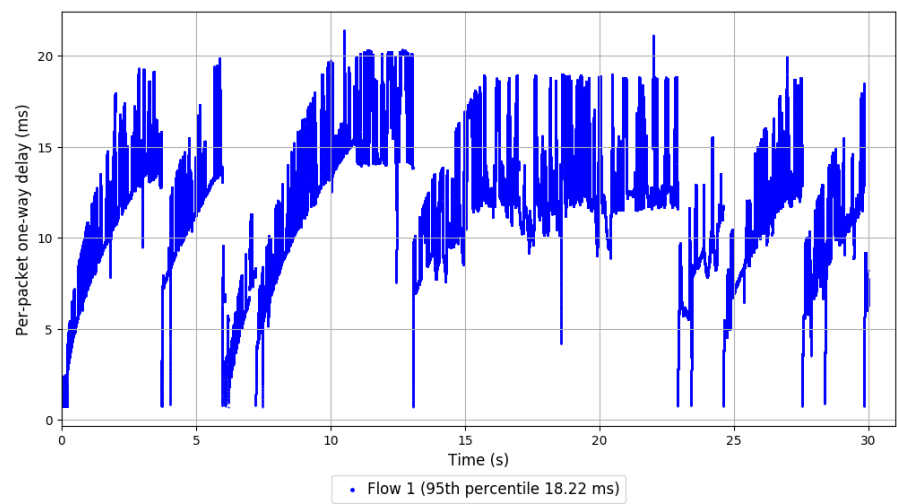
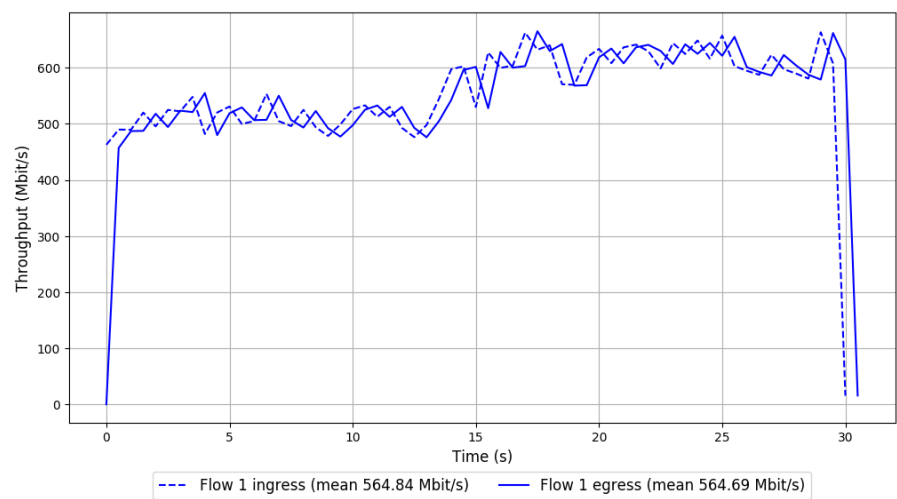


Run 4: Statistics of LEDBAT

Start at: 2019-10-02 19:08:58  
End at: 2019-10-02 19:09:28  
Local clock offset: 4.316 ms  
Remote clock offset: -0.283 ms

# Below is generated by plot.py at 2019-10-02 20:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 564.69 Mbit/s  
95th percentile per-packet one-way delay: 18.223 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 564.69 Mbit/s  
95th percentile per-packet one-way delay: 18.223 ms  
Loss rate: 0.03%

Run 4: Report of LEDBAT — Data Link

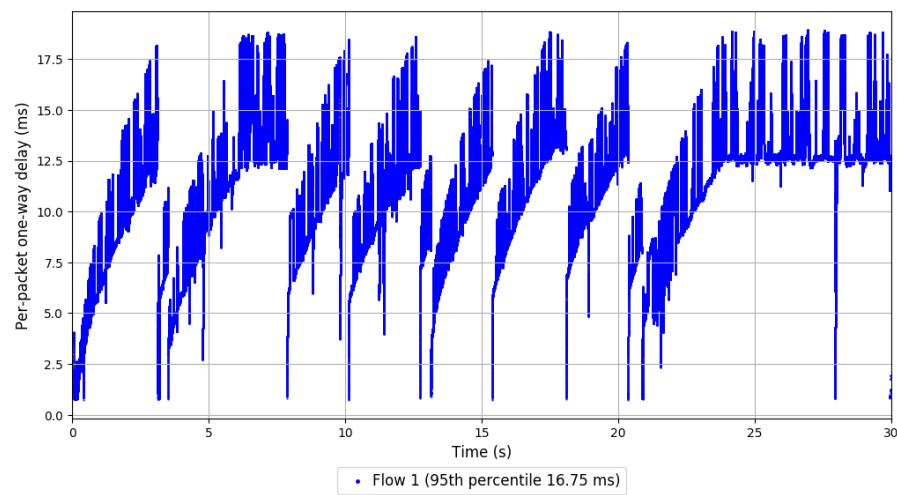
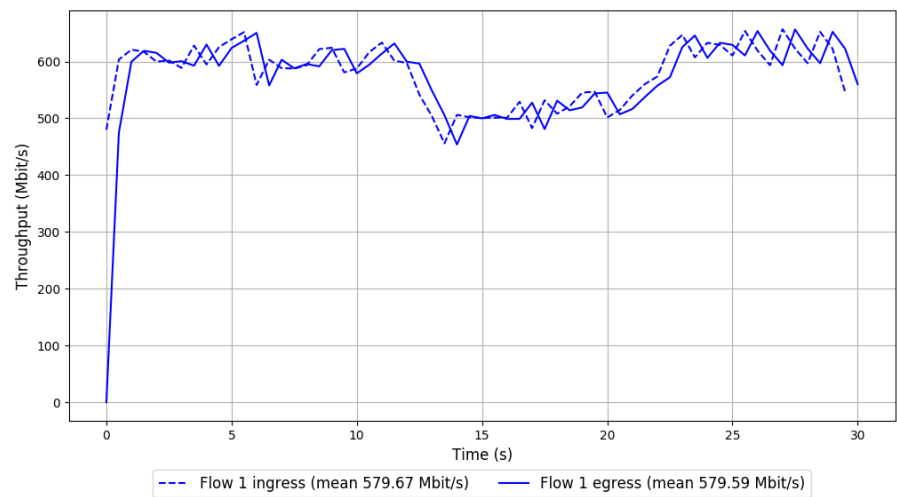


Run 5: Statistics of LEDBAT

Start at: 2019-10-02 19:42:19  
End at: 2019-10-02 19:42:49  
Local clock offset: 4.554 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-10-02 20:59:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 579.59 Mbit/s  
95th percentile per-packet one-way delay: 16.755 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 579.59 Mbit/s  
95th percentile per-packet one-way delay: 16.755 ms  
Loss rate: 0.02%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 17:58:07

End at: 2019-10-02 17:58:37

Local clock offset: 4.254 ms

Remote clock offset: 3.372 ms

# Below is generated by plot.py at 2019-10-02 20:59:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.56 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.00%

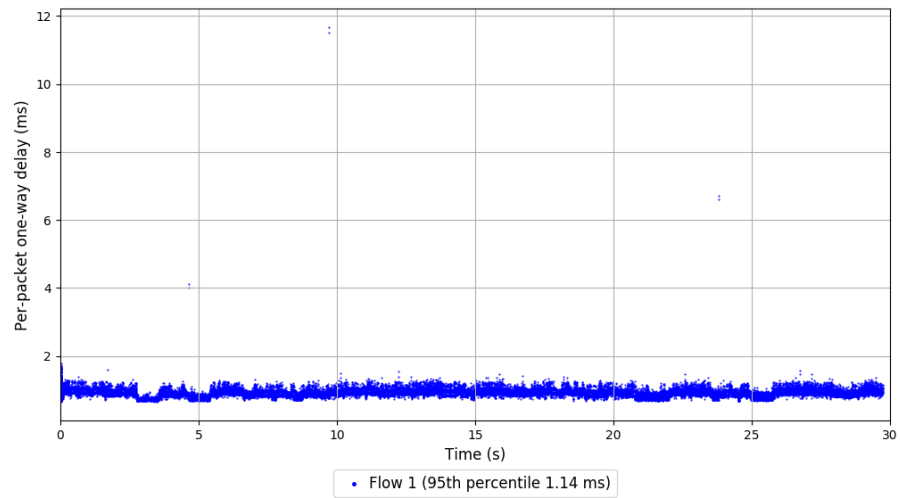
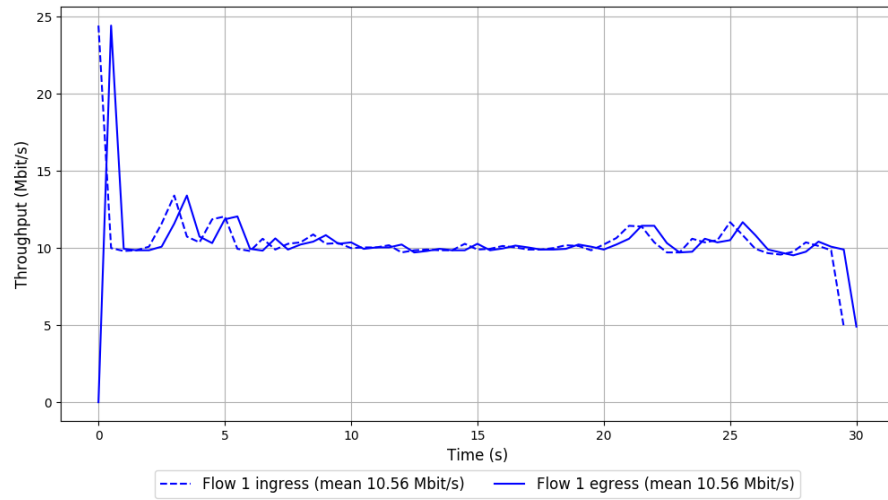
-- Flow 1:

Average throughput: 10.56 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.00%

# Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 18:30:49

End at: 2019-10-02 18:31:19

Local clock offset: 4.535 ms

Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-10-02 20:59:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 566.74 Mbit/s

95th percentile per-packet one-way delay: 8.553 ms

Loss rate: 0.01%

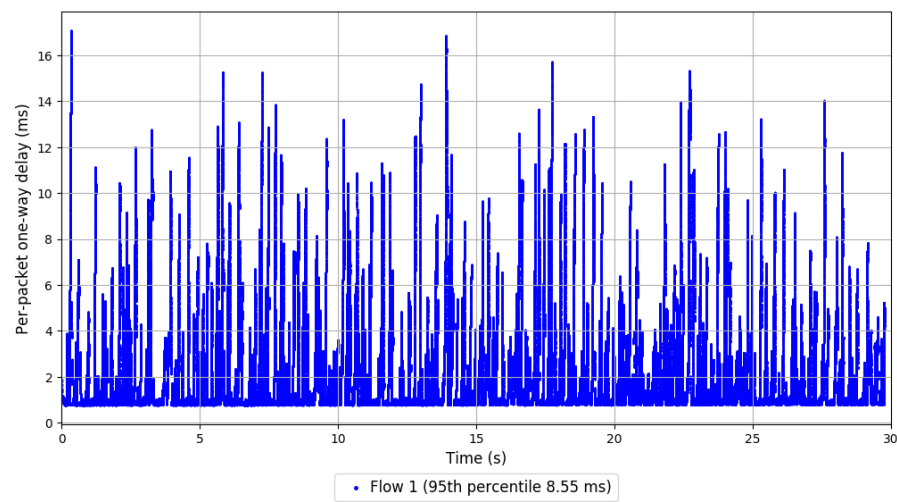
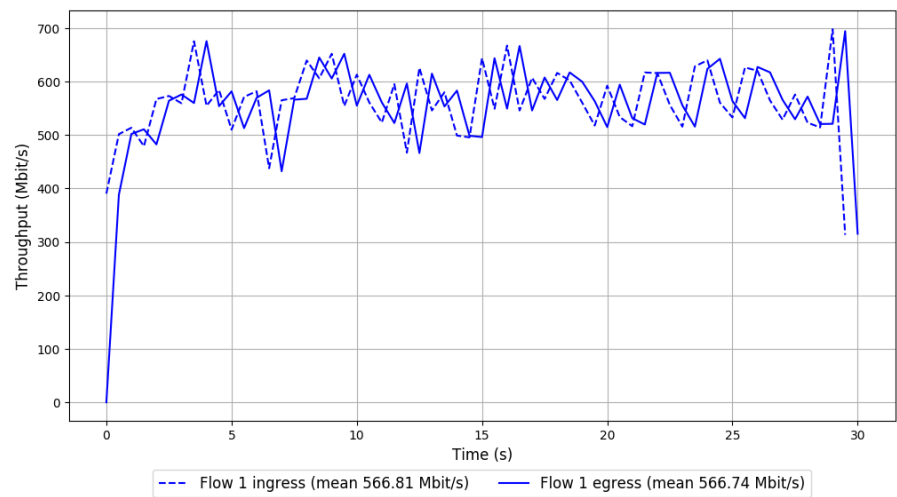
-- Flow 1:

Average throughput: 566.74 Mbit/s

95th percentile per-packet one-way delay: 8.553 ms

Loss rate: 0.01%

Run 2: Report of Muses\_DecisionTree — Data Link

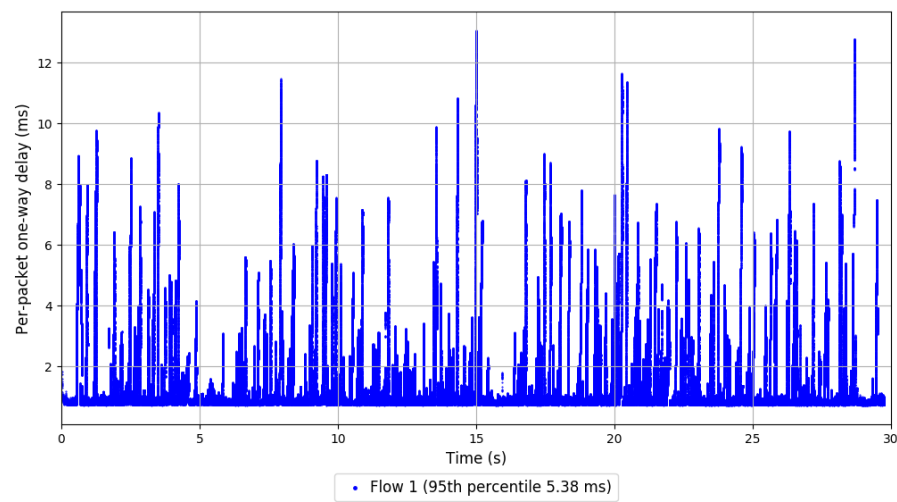
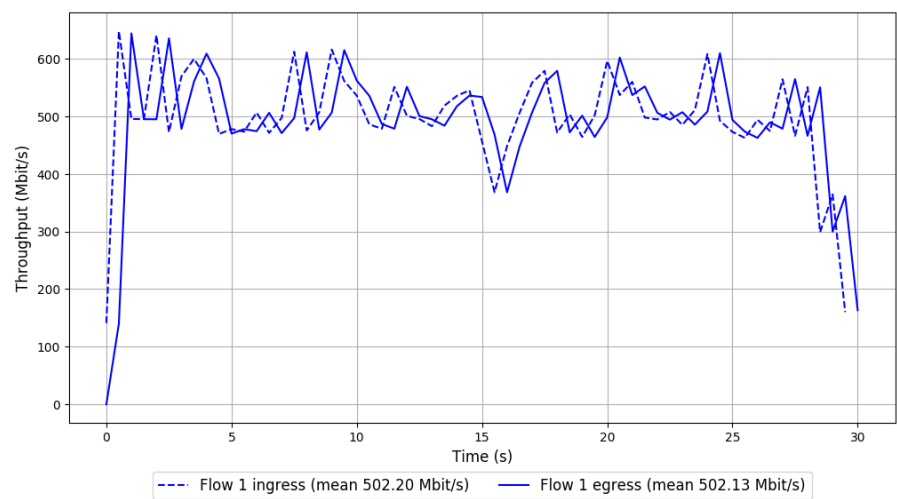


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 19:04:35  
End at: 2019-10-02 19:05:05  
Local clock offset: 4.359 ms  
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-10-02 20:59:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 502.13 Mbit/s  
95th percentile per-packet one-way delay: 5.382 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 502.13 Mbit/s  
95th percentile per-packet one-way delay: 5.382 ms  
Loss rate: 0.02%

Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 19:37:56

End at: 2019-10-02 19:38:26

Local clock offset: 4.522 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-10-02 21:01:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 544.53 Mbit/s

95th percentile per-packet one-way delay: 6.926 ms

Loss rate: 0.02%

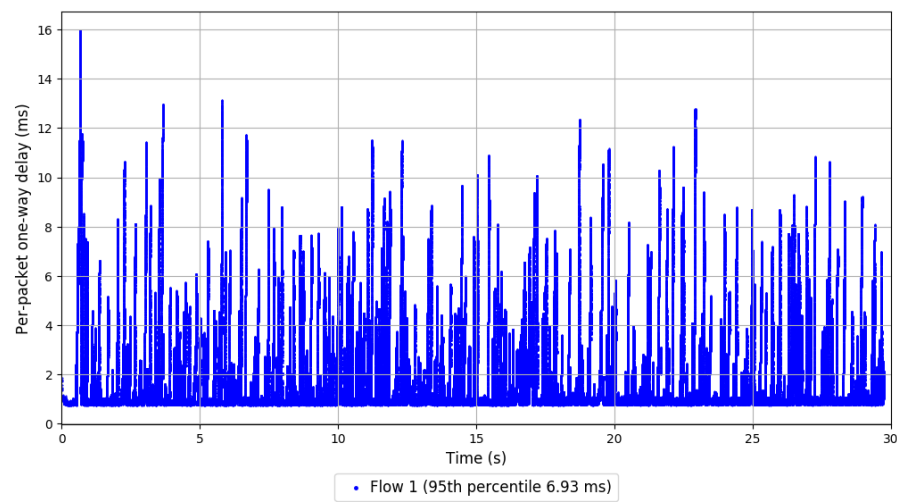
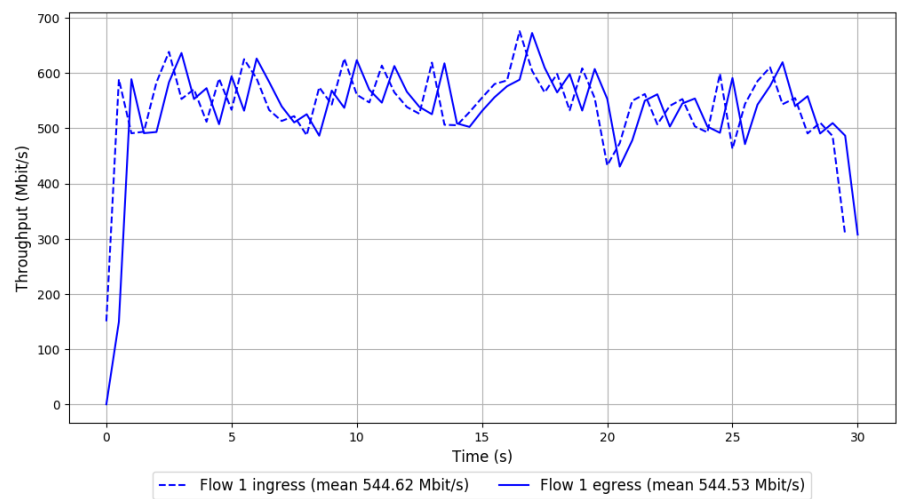
-- Flow 1:

Average throughput: 544.53 Mbit/s

95th percentile per-packet one-way delay: 6.926 ms

Loss rate: 0.02%

Run 4: Report of Muses\_DecisionTree — Data Link

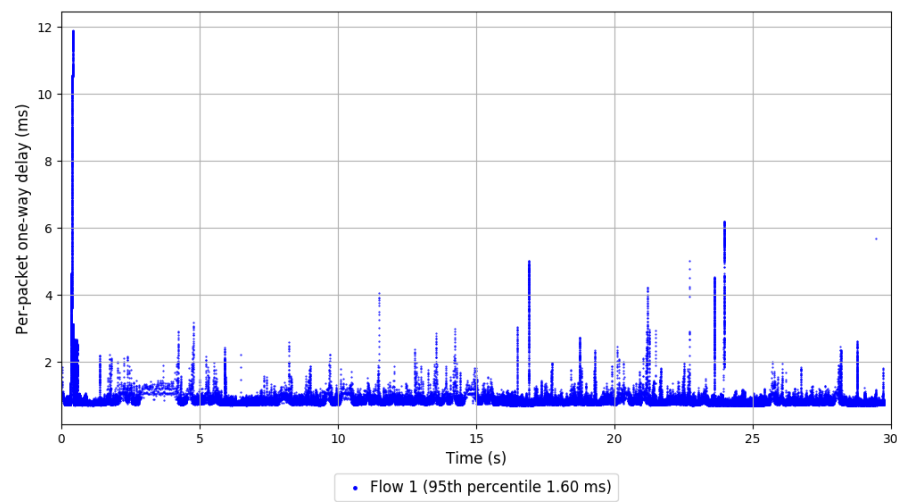
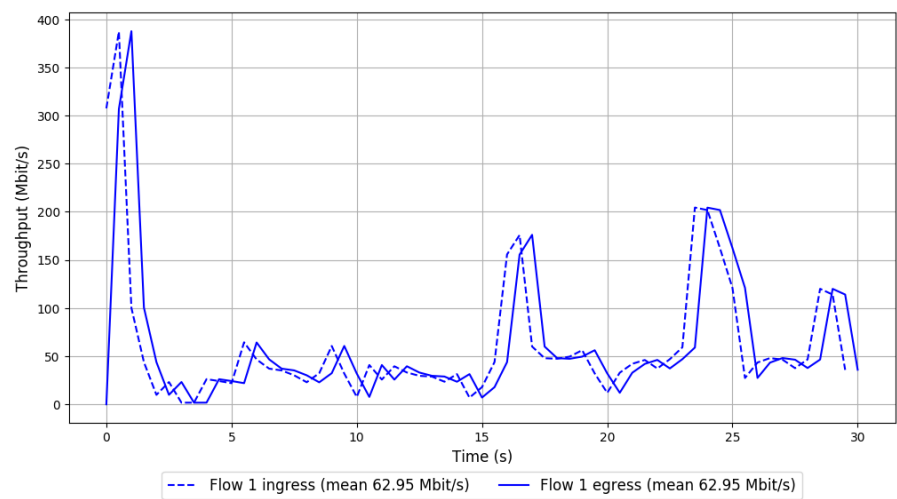


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 20:11:03  
End at: 2019-10-02 20:11:33  
Local clock offset: 3.74 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-10-02 21:01:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 62.95 Mbit/s  
95th percentile per-packet one-way delay: 1.603 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.95 Mbit/s  
95th percentile per-packet one-way delay: 1.603 ms  
Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link



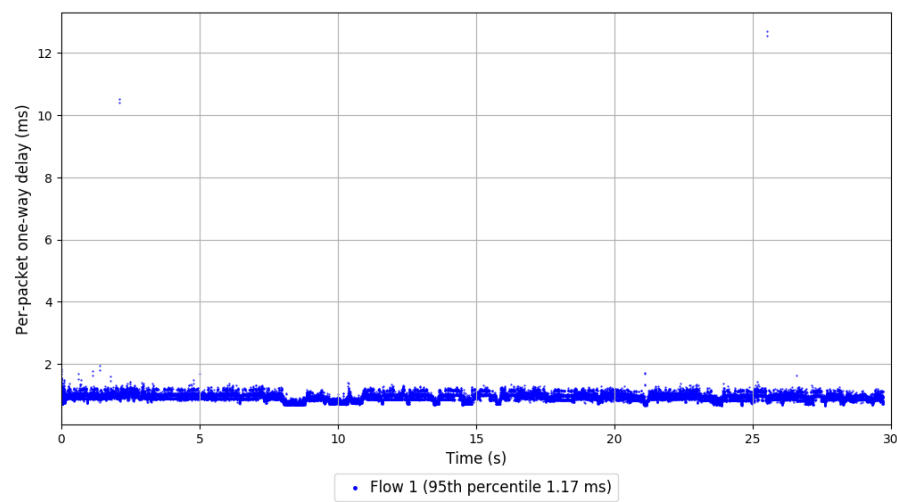
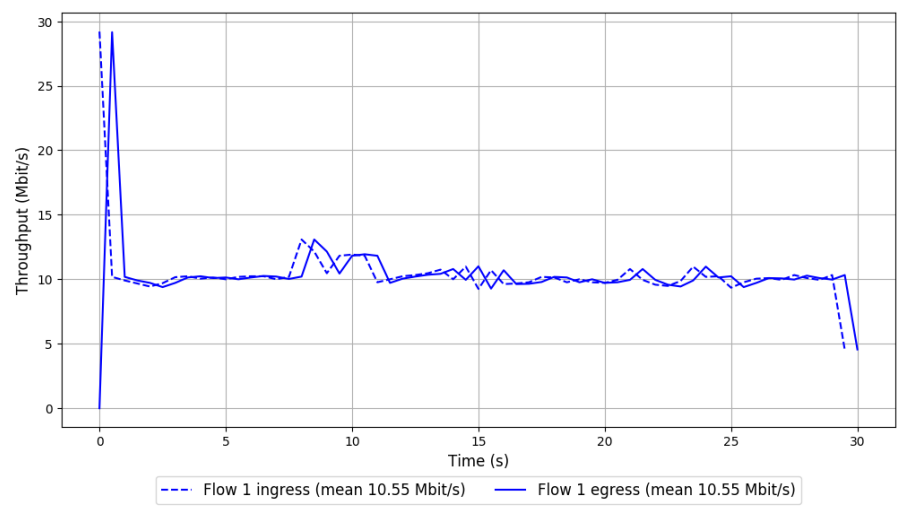


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-02 17:32:32
End at: 2019-10-02 17:33:02
Local clock offset: 4.546 ms
Remote clock offset: 3.396 ms

# Below is generated by plot.py at 2019-10-02 21:01:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.00%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 18:05:03

End at: 2019-10-02 18:05:33

Local clock offset: 4.27 ms

Remote clock offset: 3.604 ms

# Below is generated by plot.py at 2019-10-02 21:01:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.00%

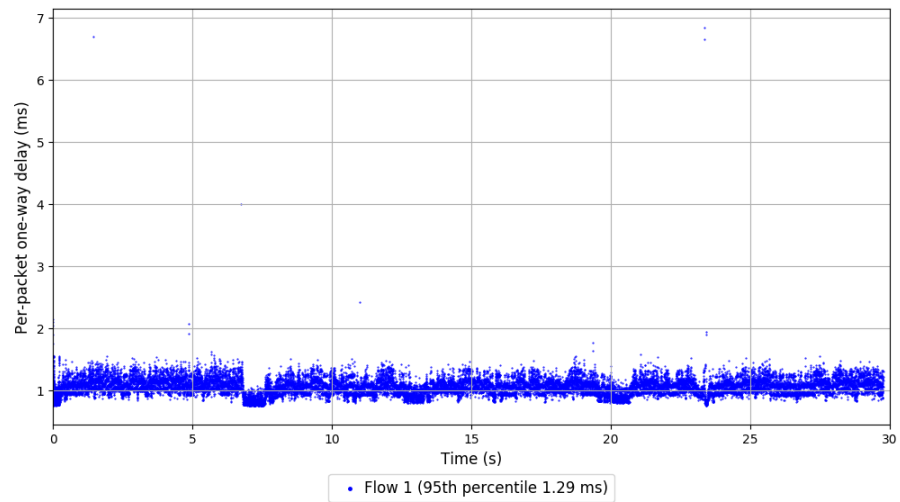
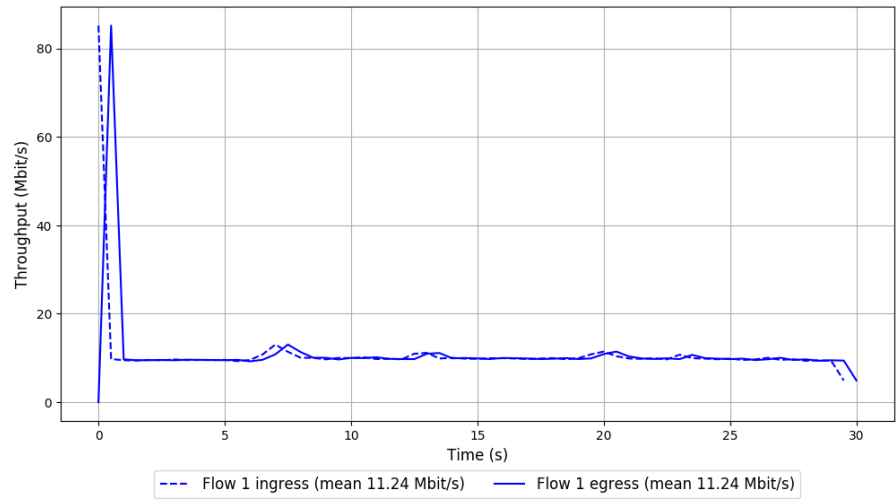
-- Flow 1:

Average throughput: 11.24 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.00%

## Run 2: Report of Muses\_DecisionTreeH0 — Data Link

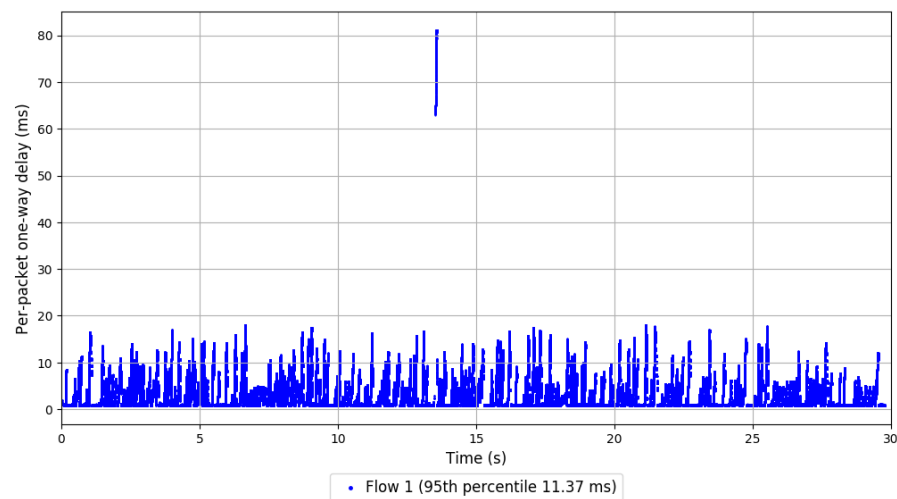
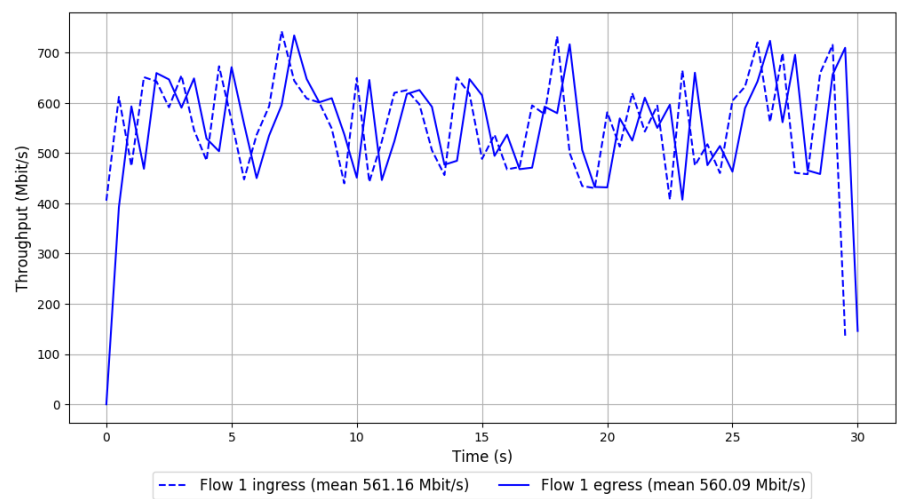


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 18:37:59  
End at: 2019-10-02 18:38:29  
Local clock offset: 4.512 ms  
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2019-10-02 21:03:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 560.09 Mbit/s  
95th percentile per-packet one-way delay: 11.369 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 560.09 Mbit/s  
95th percentile per-packet one-way delay: 11.369 ms  
Loss rate: 0.19%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

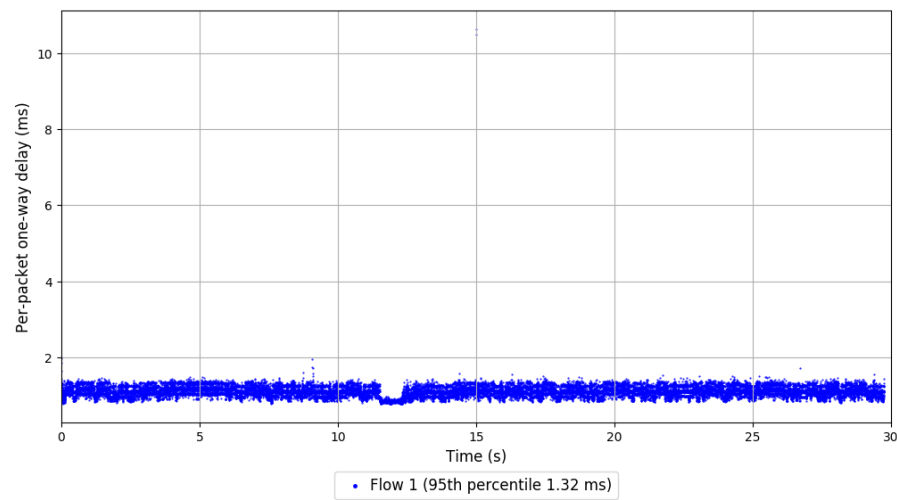
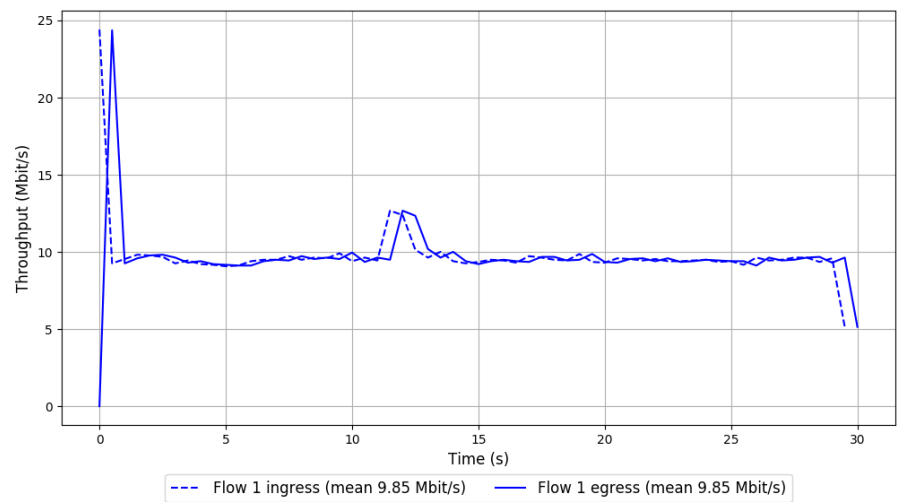


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 19:11:58  
End at: 2019-10-02 19:12:28  
Local clock offset: 4.317 ms  
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2019-10-02 21:03:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.85 Mbit/s  
95th percentile per-packet one-way delay: 1.325 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 9.85 Mbit/s  
95th percentile per-packet one-way delay: 1.325 ms  
Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



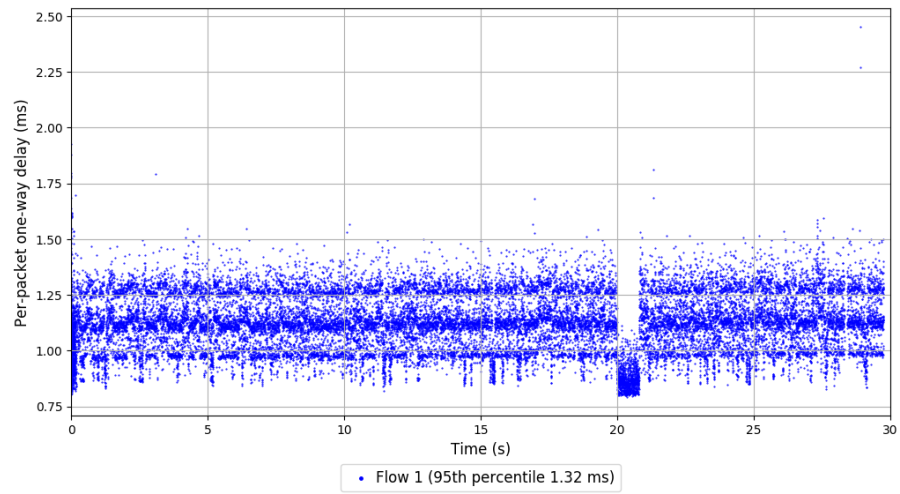
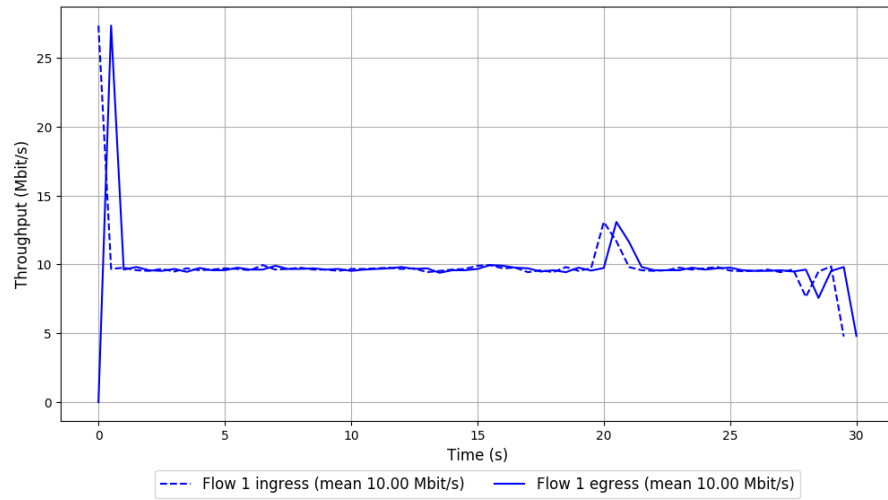


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 19:45:20  
End at: 2019-10-02 19:45:50  
Local clock offset: 4.542 ms  
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2019-10-02 21:03:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.00 Mbit/s  
95th percentile per-packet one-way delay: 1.325 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.00 Mbit/s  
95th percentile per-packet one-way delay: 1.325 ms  
Loss rate: 0.00%

# Run 5: Report of Muses\_DecisionTreeH0 — Data Link

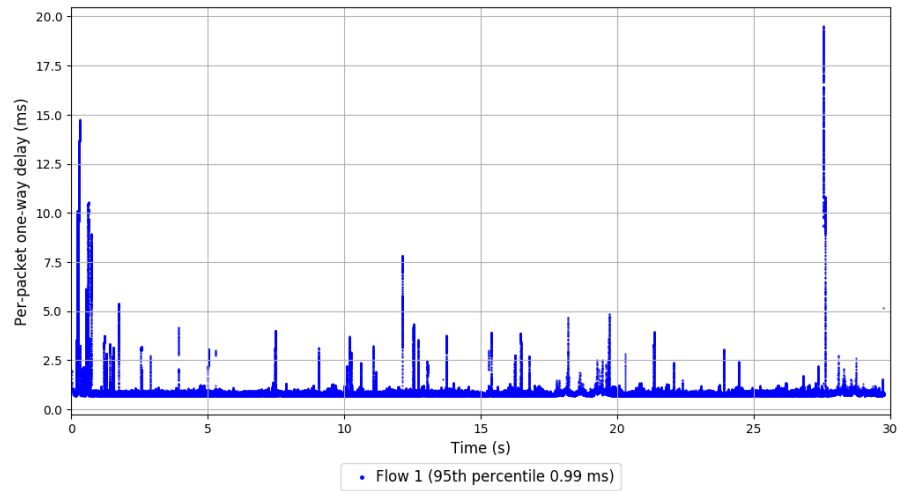
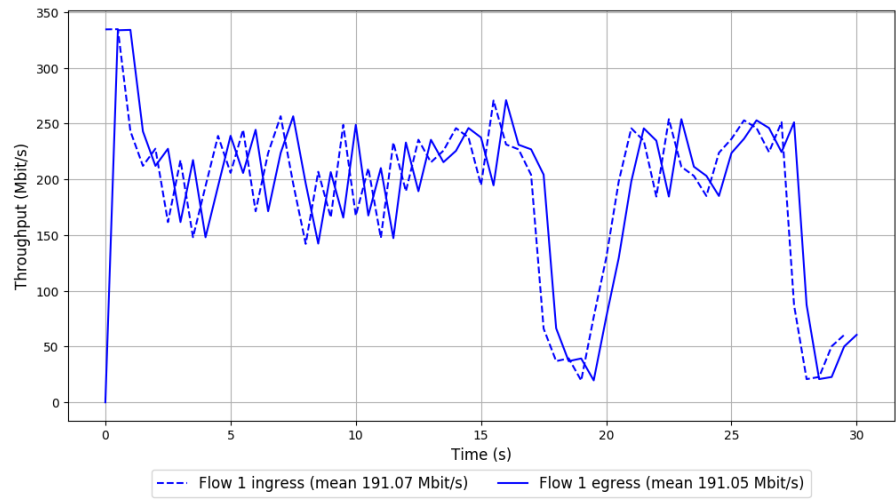


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-02 17:48:37
End at: 2019-10-02 17:49:07
Local clock offset: 4.212 ms
Remote clock offset: 3.296 ms

# Below is generated by plot.py at 2019-10-02 21:03:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.05 Mbit/s
95th percentile per-packet one-way delay: 0.995 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 191.05 Mbit/s
95th percentile per-packet one-way delay: 0.995 ms
Loss rate: 0.01%
```

# Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 18:21:11

End at: 2019-10-02 18:21:41

Local clock offset: 4.625 ms

Remote clock offset: 1.06 ms

# Below is generated by plot.py at 2019-10-02 21:03:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.95 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.00%

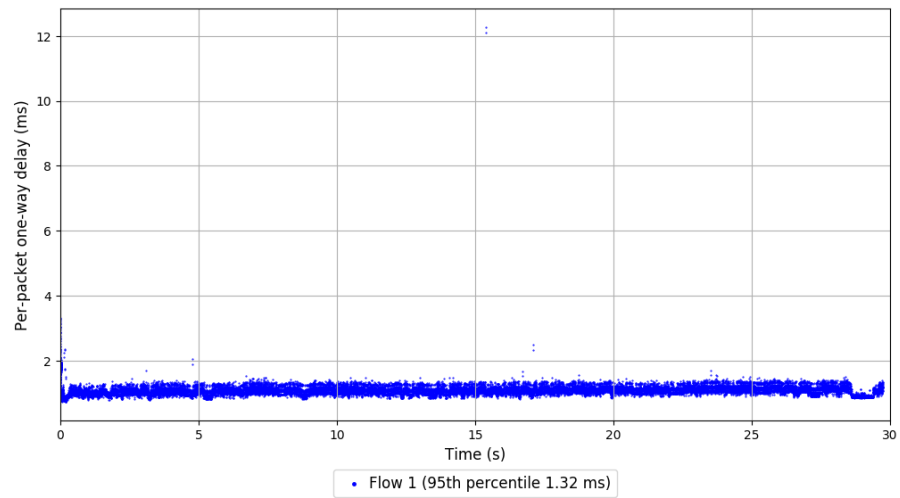
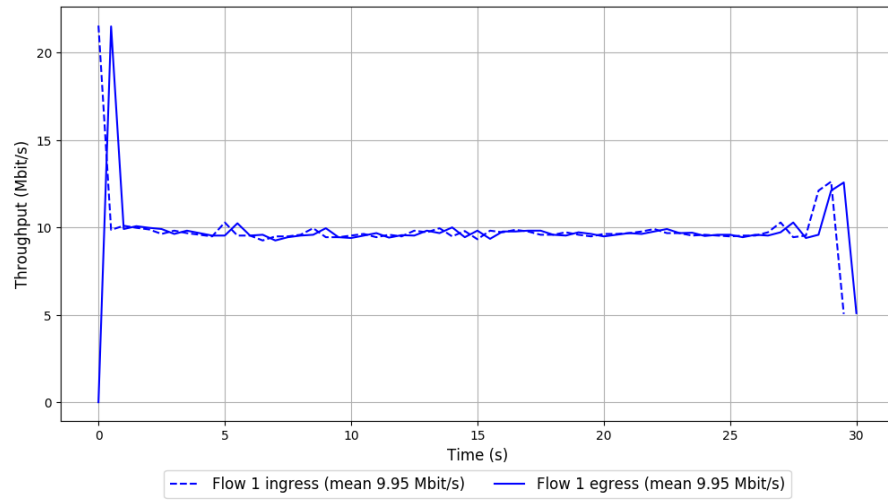
-- Flow 1:

Average throughput: 9.95 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.00%

## Run 2: Report of Muses\_DecisionTreeR0 — Data Link

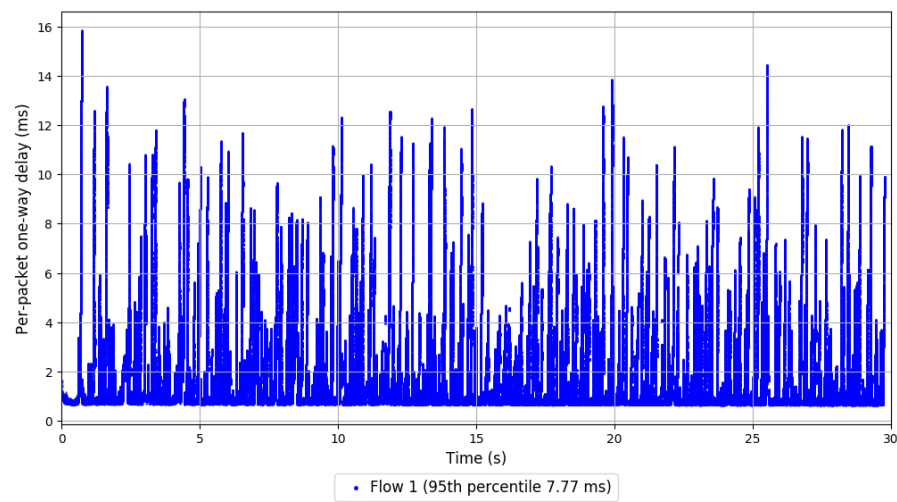
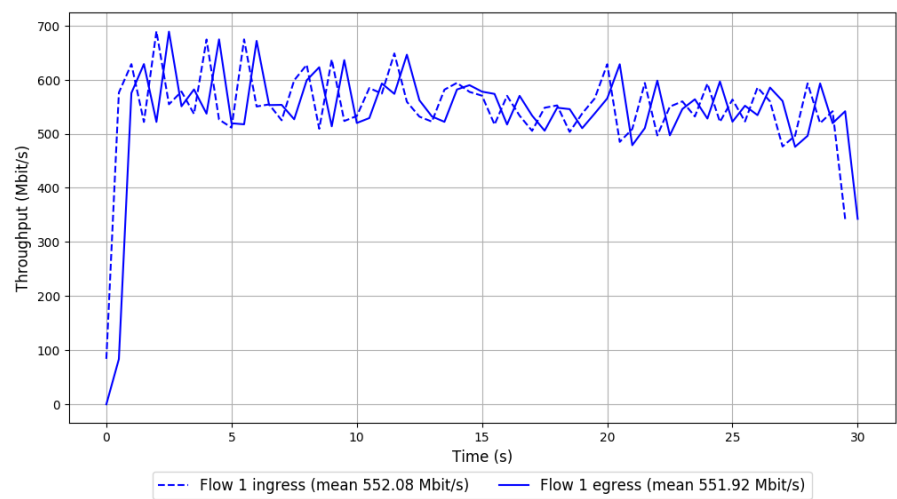


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 18:54:24  
End at: 2019-10-02 18:54:54  
Local clock offset: 4.729 ms  
Remote clock offset: -0.368 ms

# Below is generated by plot.py at 2019-10-02 21:04:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 551.92 Mbit/s  
95th percentile per-packet one-way delay: 7.767 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 551.92 Mbit/s  
95th percentile per-packet one-way delay: 7.767 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



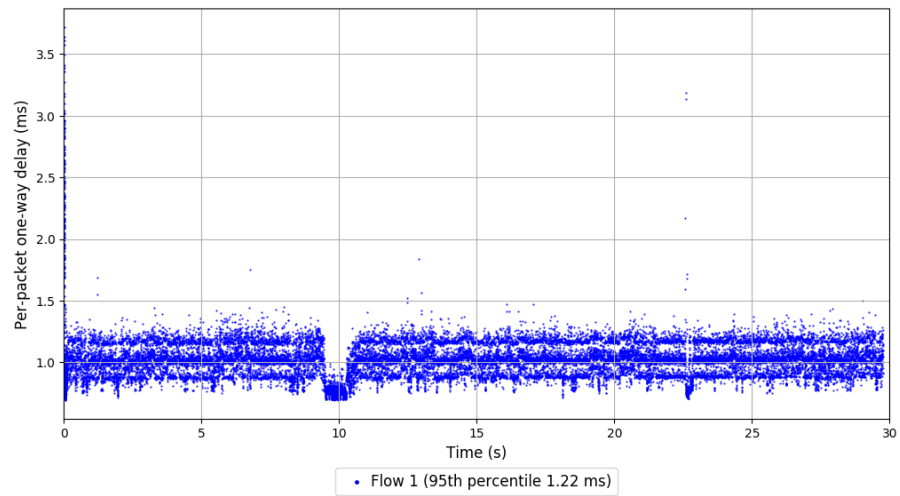
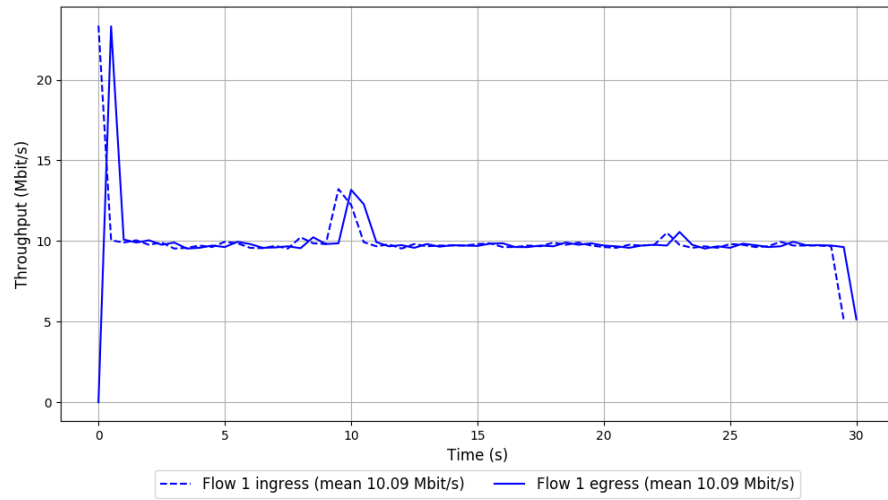


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 19:28:00  
End at: 2019-10-02 19:28:30  
Local clock offset: 4.352 ms  
Remote clock offset: -0.242 ms

# Below is generated by plot.py at 2019-10-02 21:04:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.09 Mbit/s  
95th percentile per-packet one-way delay: 1.221 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 10.09 Mbit/s  
95th percentile per-packet one-way delay: 1.221 ms  
Loss rate: 0.00%

#### Run 4: Report of Muses\_DecisionTreeR0 — Data Link

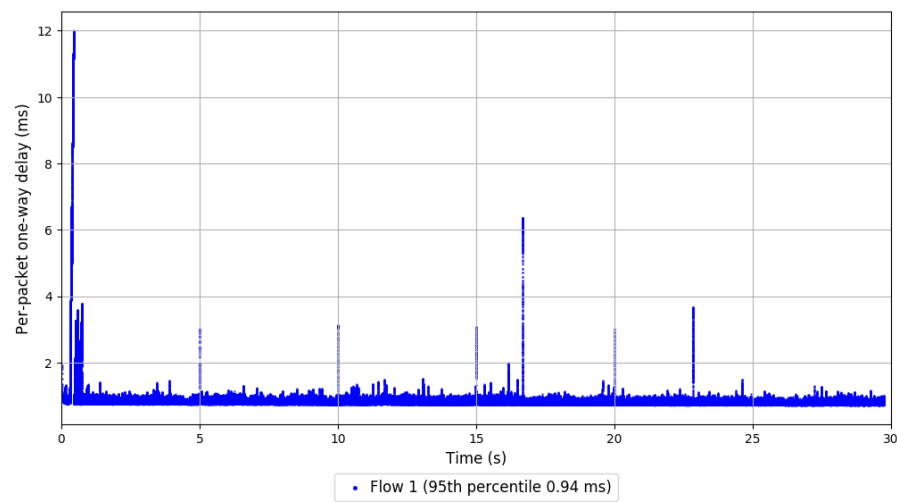
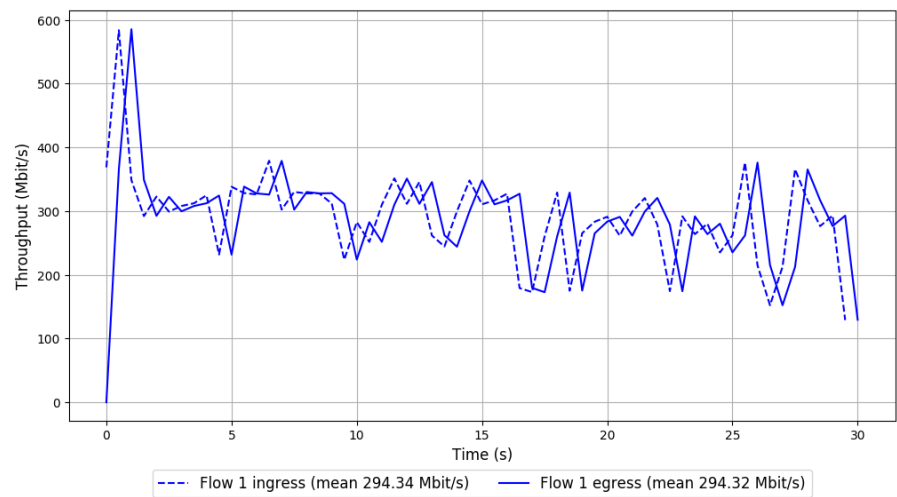


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 20:01:28  
End at: 2019-10-02 20:01:58  
Local clock offset: 4.15 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-10-02 21:04:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 294.32 Mbit/s  
95th percentile per-packet one-way delay: 0.945 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 294.32 Mbit/s  
95th percentile per-packet one-way delay: 0.945 ms  
Loss rate: 0.01%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-10-02 17:52:29

End at: 2019-10-02 17:52:59

Local clock offset: 4.23 ms

Remote clock offset: 3.321 ms

# Below is generated by plot.py at 2019-10-02 21:06:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 590.53 Mbit/s

95th percentile per-packet one-way delay: 3.346 ms

Loss rate: 0.00%

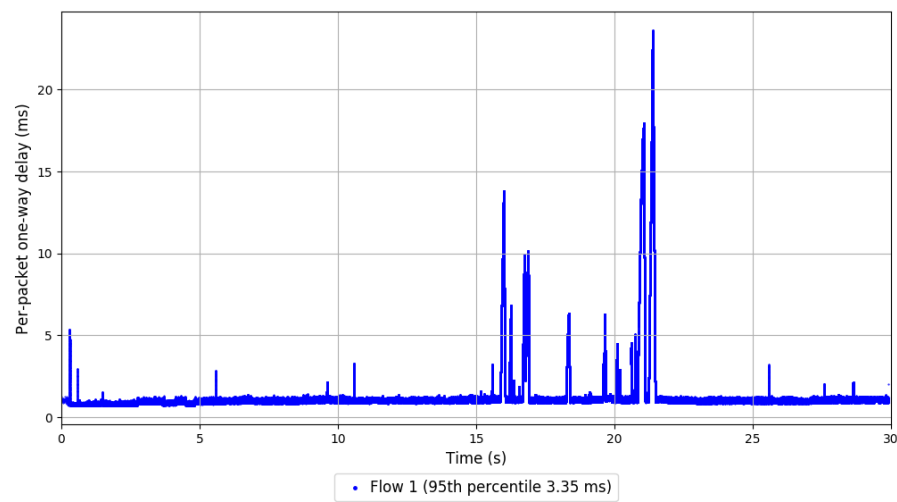
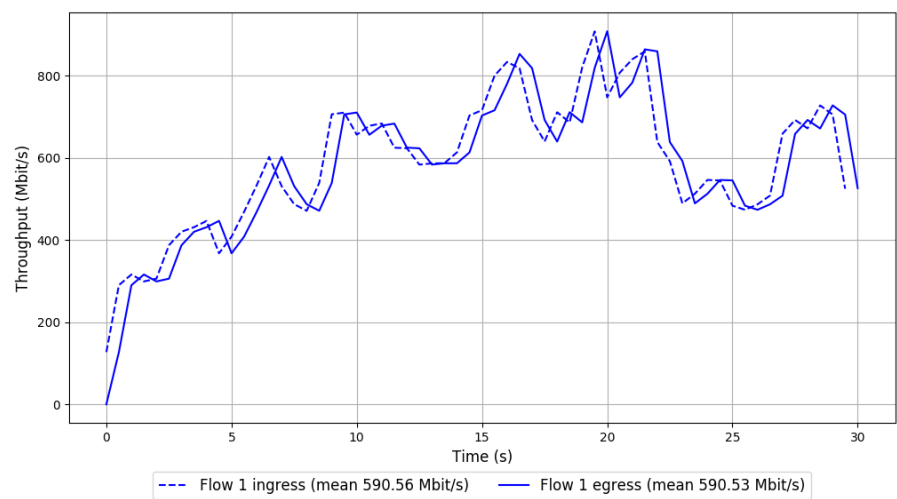
-- Flow 1:

Average throughput: 590.53 Mbit/s

95th percentile per-packet one-way delay: 3.346 ms

Loss rate: 0.00%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-02 18:24:56

End at: 2019-10-02 18:25:26

Local clock offset: 4.729 ms

Remote clock offset: 0.482 ms

# Below is generated by plot.py at 2019-10-02 21:06:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 429.00 Mbit/s

95th percentile per-packet one-way delay: 0.993 ms

Loss rate: 0.03%

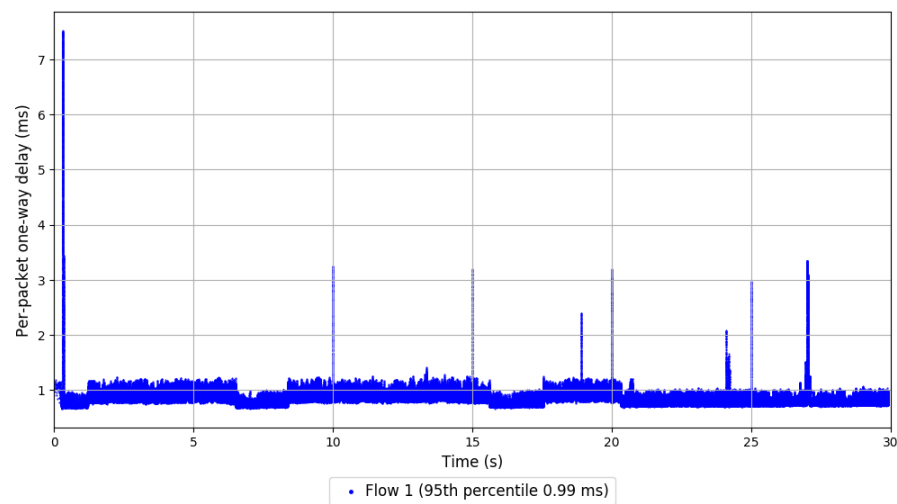
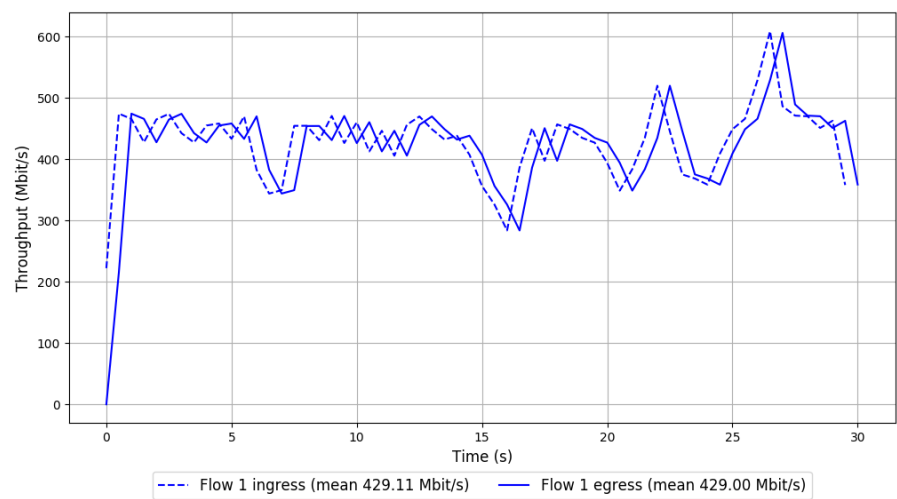
-- Flow 1:

Average throughput: 429.00 Mbit/s

95th percentile per-packet one-way delay: 0.993 ms

Loss rate: 0.03%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-10-02 18:58:35

End at: 2019-10-02 18:59:05

Local clock offset: 4.561 ms

Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2019-10-02 21:09:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 799.90 Mbit/s

95th percentile per-packet one-way delay: 17.533 ms

Loss rate: 0.28%

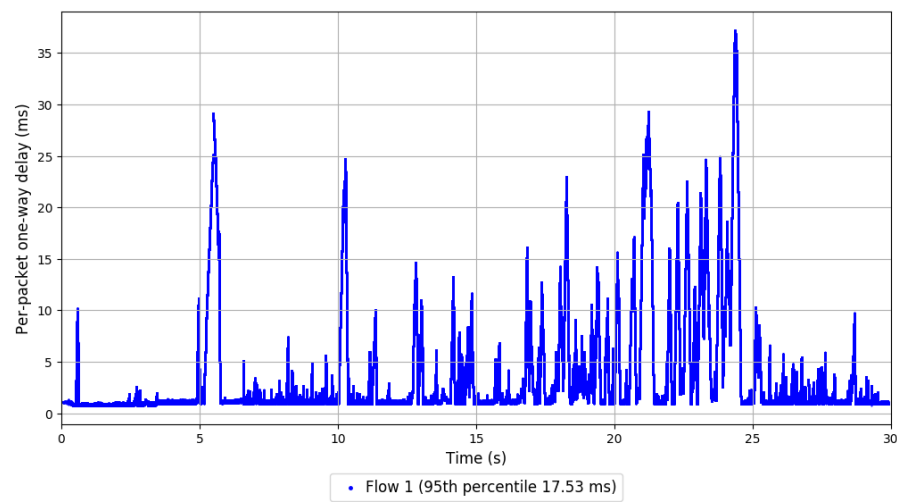
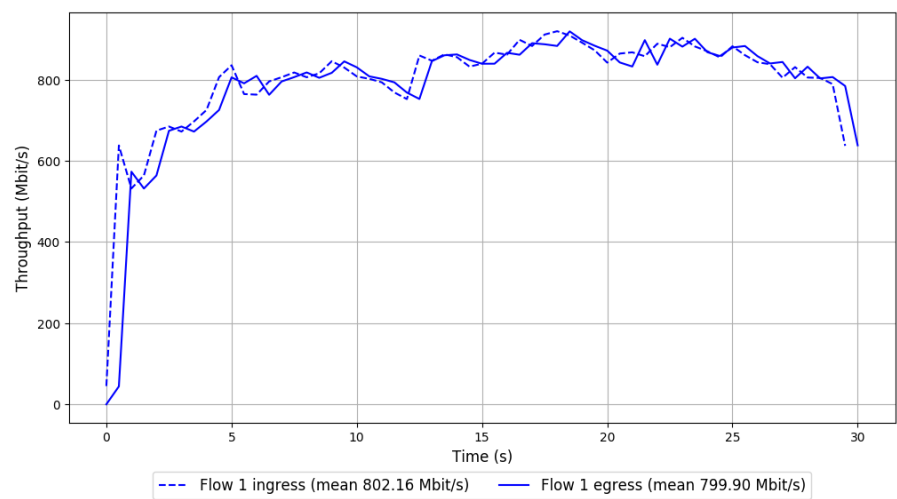
-- Flow 1:

Average throughput: 799.90 Mbit/s

95th percentile per-packet one-way delay: 17.533 ms

Loss rate: 0.28%

Run 3: Report of PCC-Allegro — Data Link

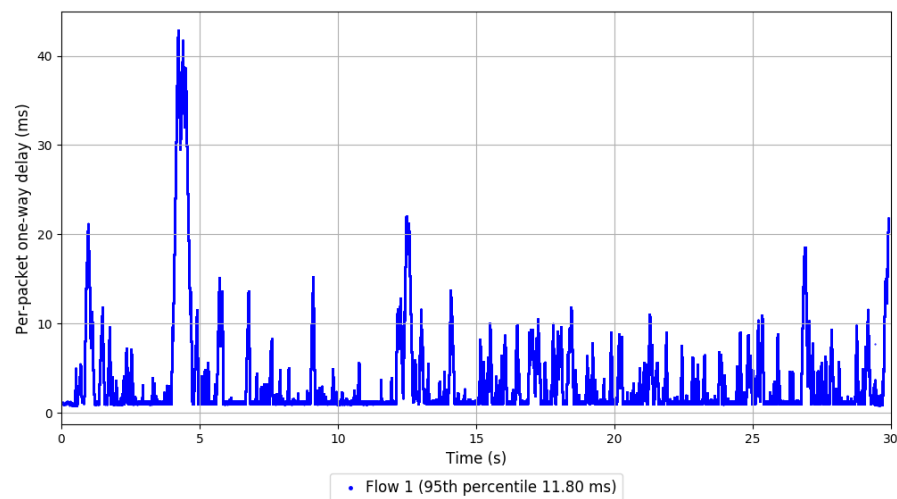
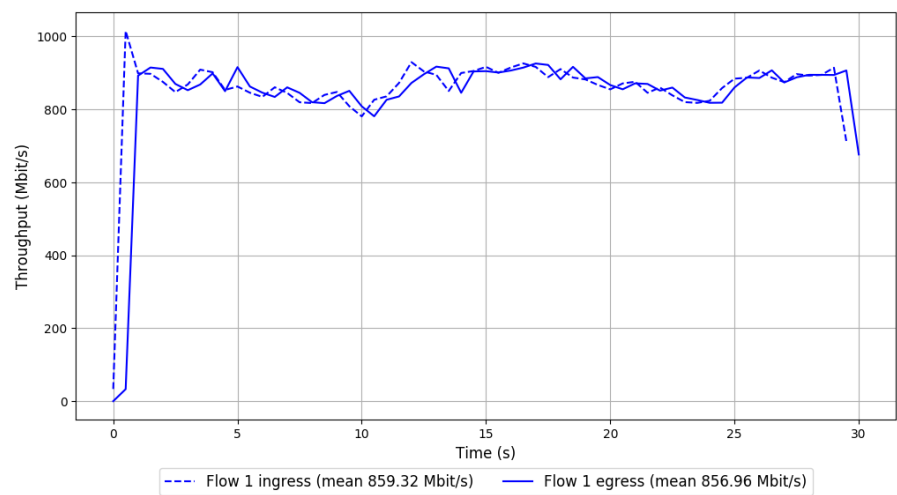


Run 4: Statistics of PCC-Allegro

Start at: 2019-10-02 19:31:59  
End at: 2019-10-02 19:32:29  
Local clock offset: 4.433 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 856.96 Mbit/s  
95th percentile per-packet one-way delay: 11.802 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 856.96 Mbit/s  
95th percentile per-packet one-way delay: 11.802 ms  
Loss rate: 0.28%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-02 20:05:30

End at: 2019-10-02 20:06:00

Local clock offset: 3.894 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 0.919 ms

Loss rate: 0.00%

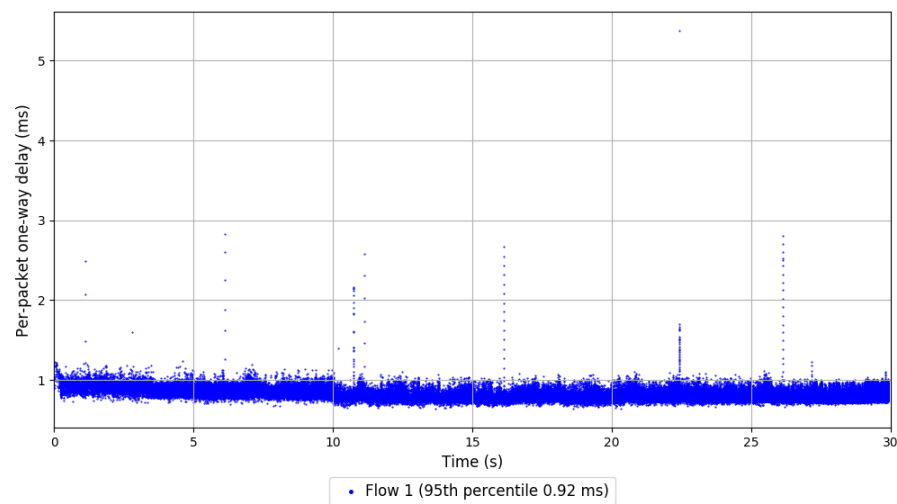
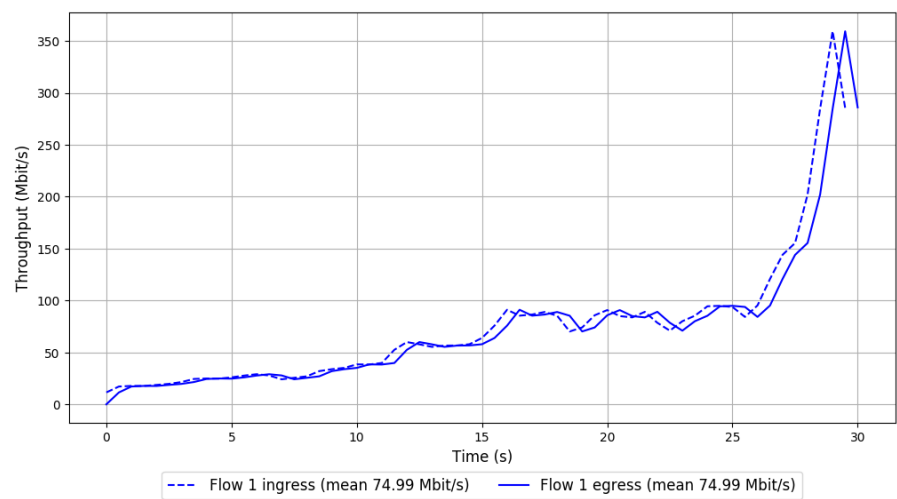
-- Flow 1:

Average throughput: 74.99 Mbit/s

95th percentile per-packet one-way delay: 0.919 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

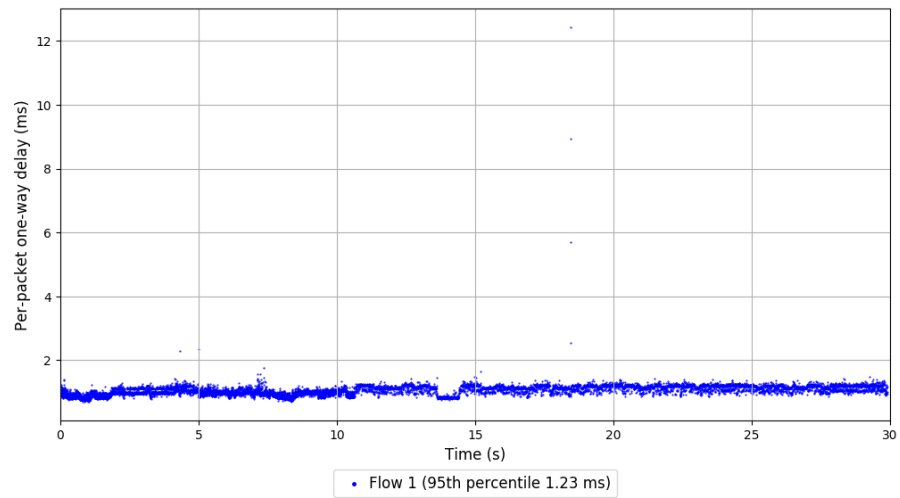
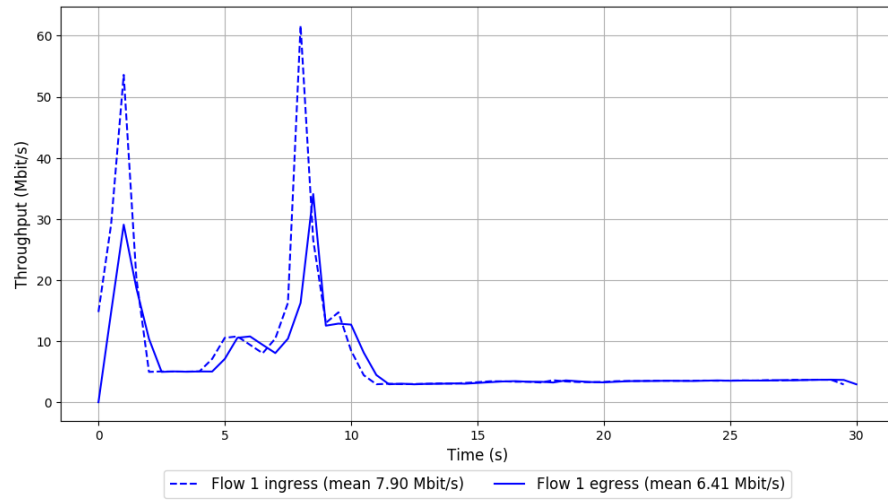


```
Run 1: Statistics of PCC-Expr

Start at: 2019-10-02 17:49:56
End at: 2019-10-02 17:50:26
Local clock offset: 4.233 ms
Remote clock offset: 3.353 ms

# Below is generated by plot.py at 2019-10-02 21:10:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 18.85%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 18.85%
```

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





Run 2: Statistics of PCC-Expr

Start at: 2019-10-02 18:22:24

End at: 2019-10-02 18:22:55

Local clock offset: 4.654 ms

Remote clock offset: 0.846 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.90 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 25.87%

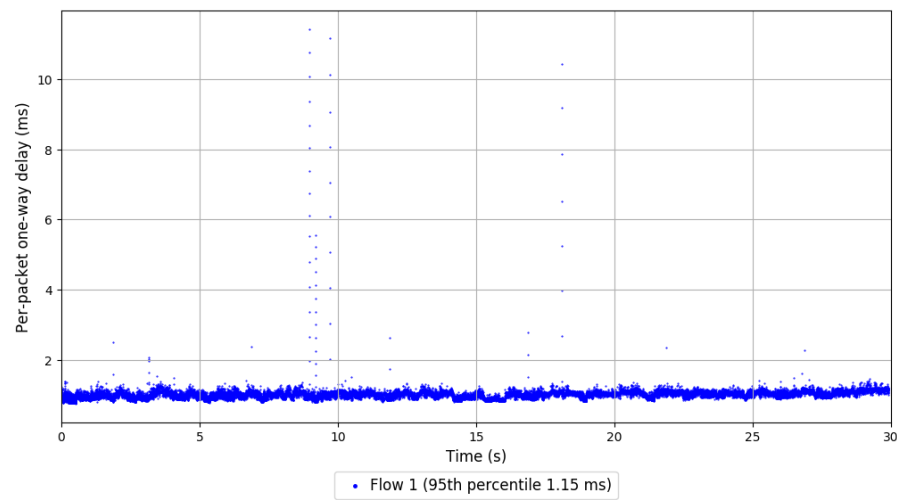
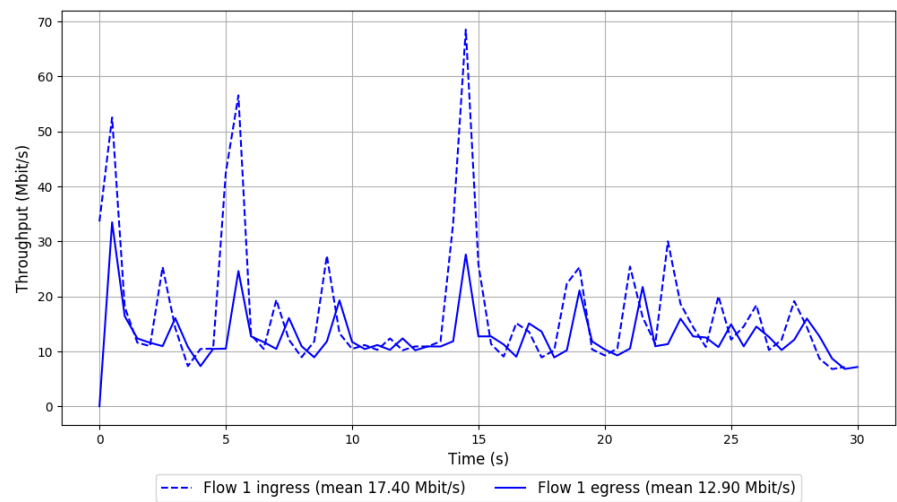
-- Flow 1:

Average throughput: 12.90 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 25.87%

Run 2: Report of PCC-Expr — Data Link

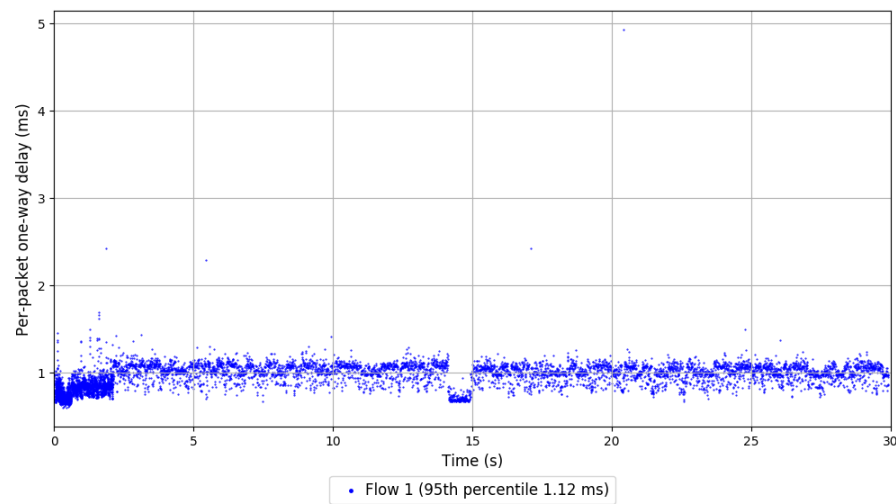
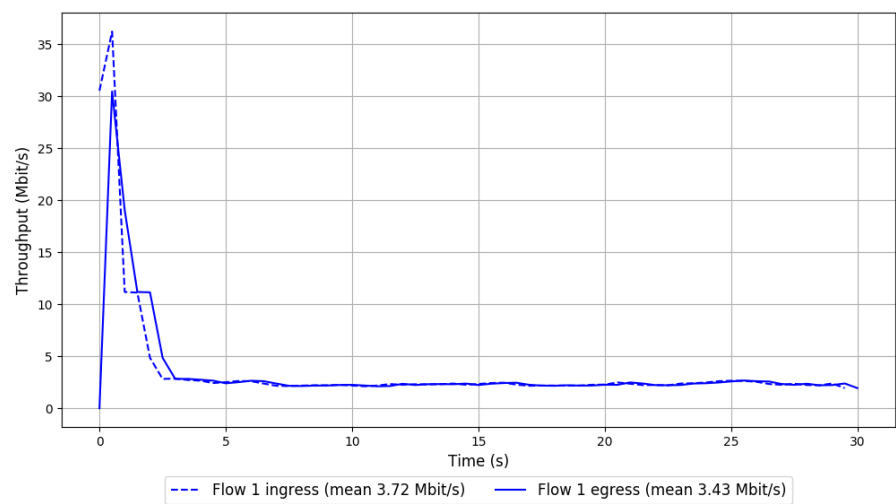


Run 3: Statistics of PCC-Expr

Start at: 2019-10-02 18:55:56  
End at: 2019-10-02 18:56:26  
Local clock offset: 4.674 ms  
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 3.43 Mbit/s  
95th percentile per-packet one-way delay: 1.118 ms  
Loss rate: 7.74%  
-- Flow 1:  
Average throughput: 3.43 Mbit/s  
95th percentile per-packet one-way delay: 1.118 ms  
Loss rate: 7.74%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-10-02 19:29:14

End at: 2019-10-02 19:29:44

Local clock offset: 4.38 ms

Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 1.251 ms

Loss rate: 19.05%

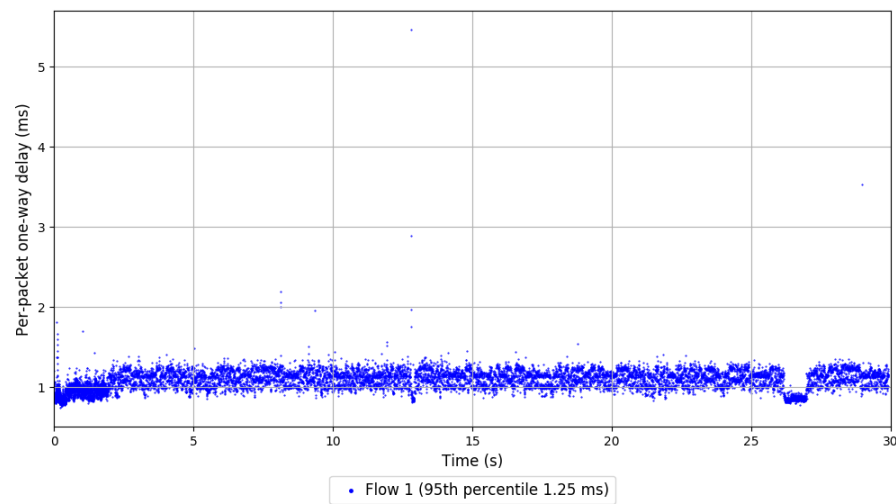
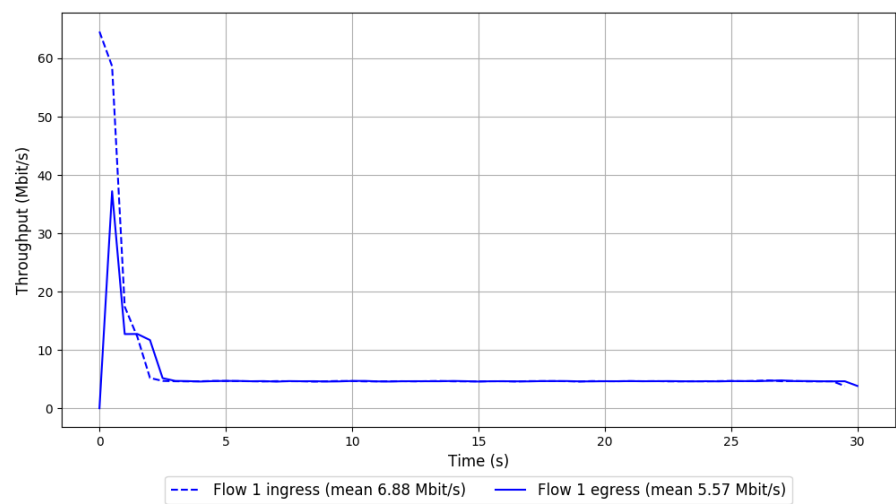
-- Flow 1:

Average throughput: 5.57 Mbit/s

95th percentile per-packet one-way delay: 1.251 ms

Loss rate: 19.05%

Run 4: Report of PCC-Expr — Data Link

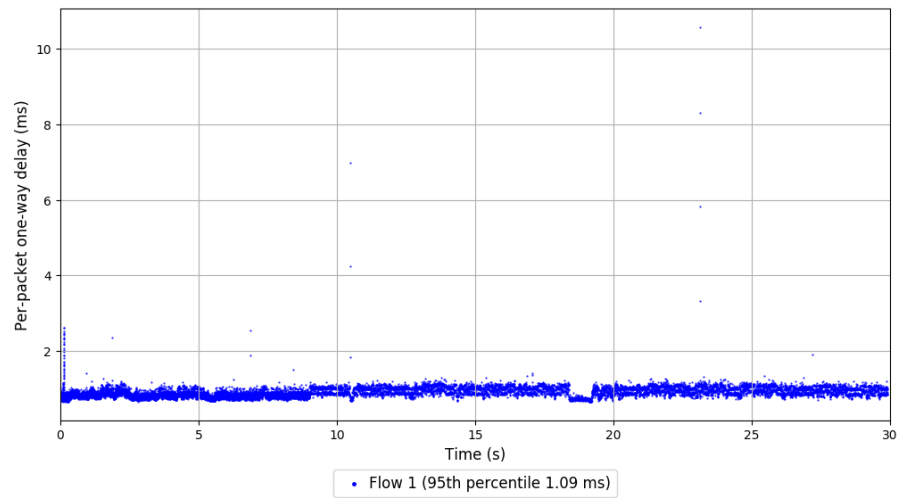
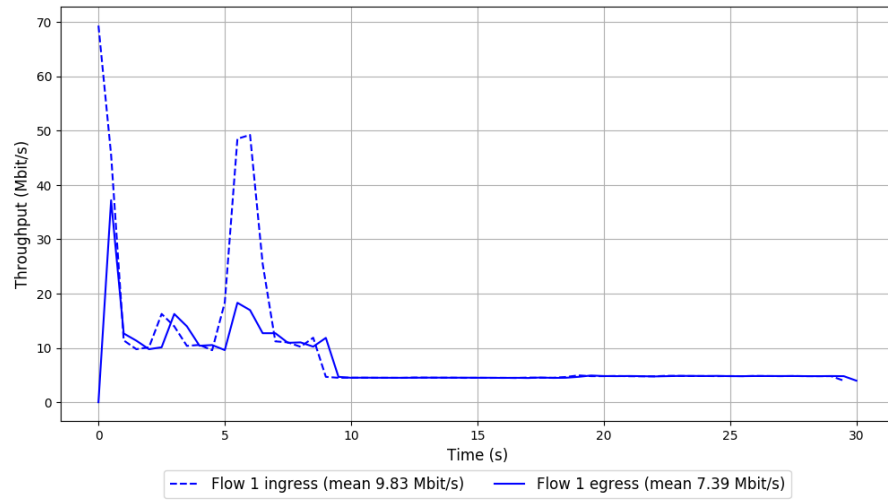


Run 5: Statistics of PCC-Expr

Start at: 2019-10-02 20:02:51  
End at: 2019-10-02 20:03:21  
Local clock offset: 4.026 ms  
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.39 Mbit/s  
95th percentile per-packet one-way delay: 1.095 ms  
Loss rate: 24.85%  
-- Flow 1:  
Average throughput: 7.39 Mbit/s  
95th percentile per-packet one-way delay: 1.095 ms  
Loss rate: 24.85%

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





Run 1: Statistics of QUIC Cubic

Start at: 2019-10-02 17:38:54

End at: 2019-10-02 17:39:24

Local clock offset: 4.499 ms

Remote clock offset: 3.535 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.00 Mbit/s

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

Loss rate: 0.00%

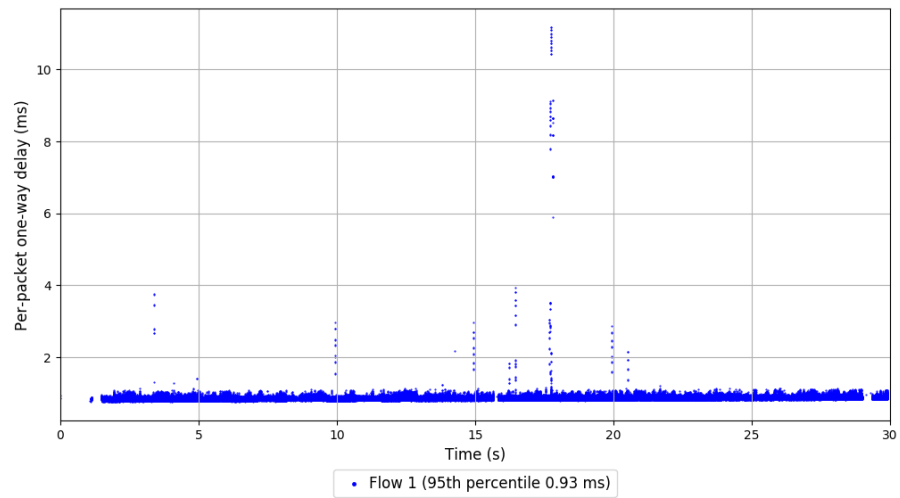
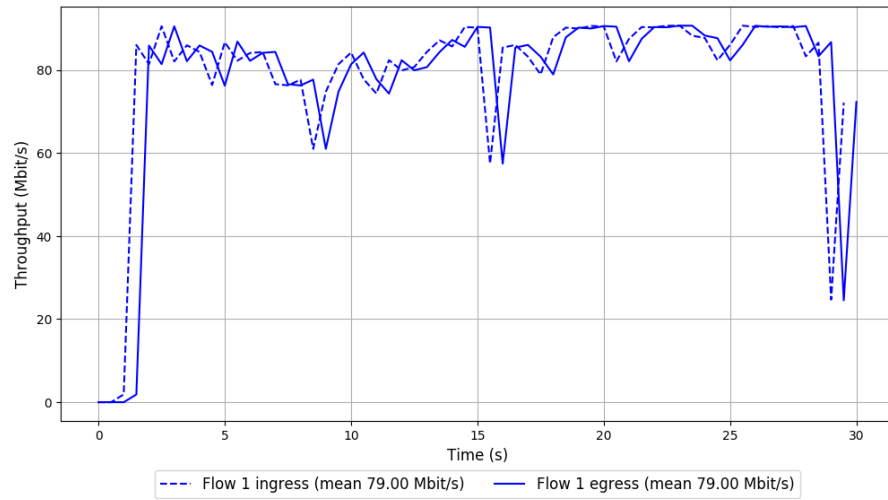
-- Flow 1:

Average throughput: 79.00 Mbit/s

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

Loss rate: 0.00%

# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-02 18:11:31

End at: 2019-10-02 18:12:01

Local clock offset: 4.393 ms

Remote clock offset: 3.72 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 0.854 ms

Loss rate: 0.00%

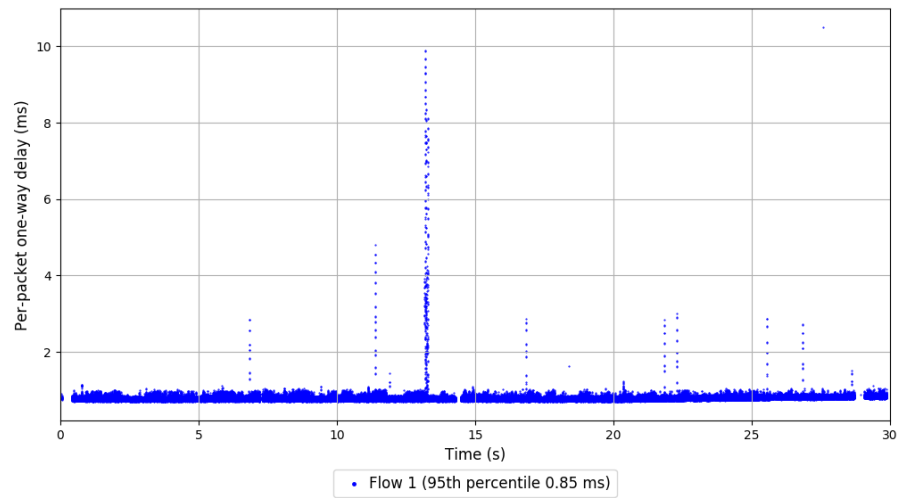
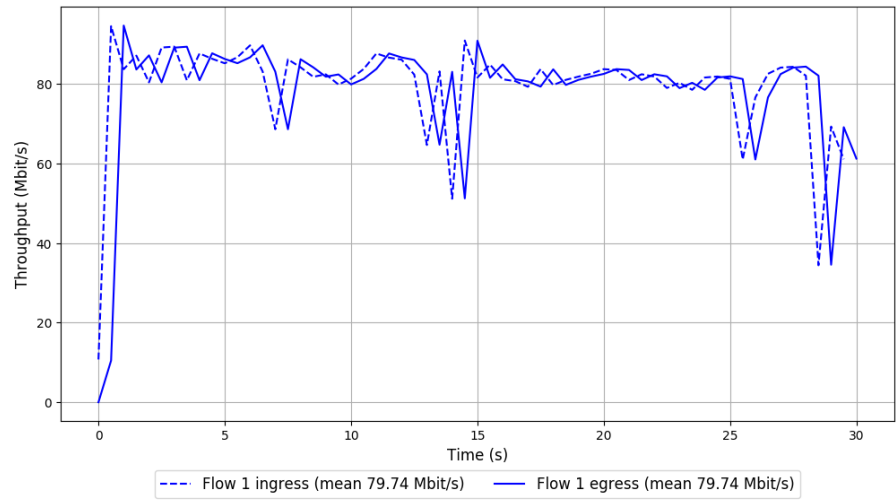
-- Flow 1:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 0.854 ms

Loss rate: 0.00%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-02 18:44:46

End at: 2019-10-02 18:45:16

Local clock offset: 4.592 ms

Remote clock offset: -0.602 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.24 Mbit/s

95th percentile per-packet one-way delay: 0.911 ms

Loss rate: 0.00%

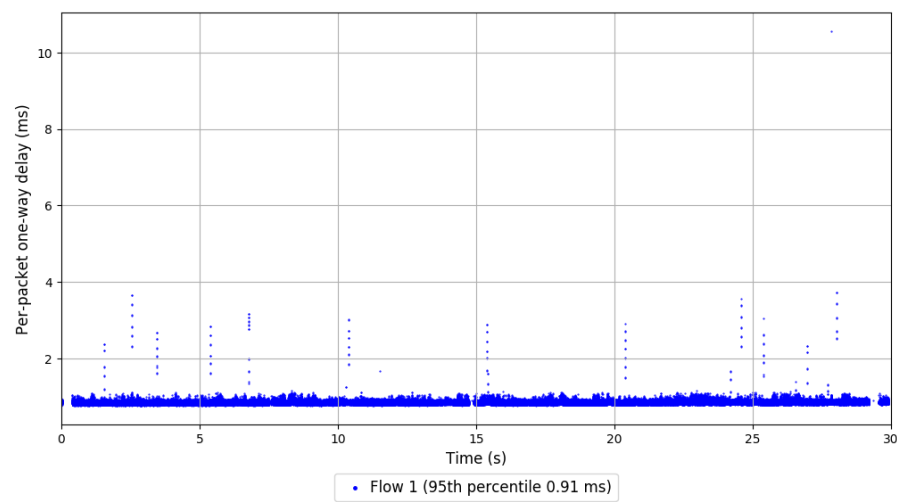
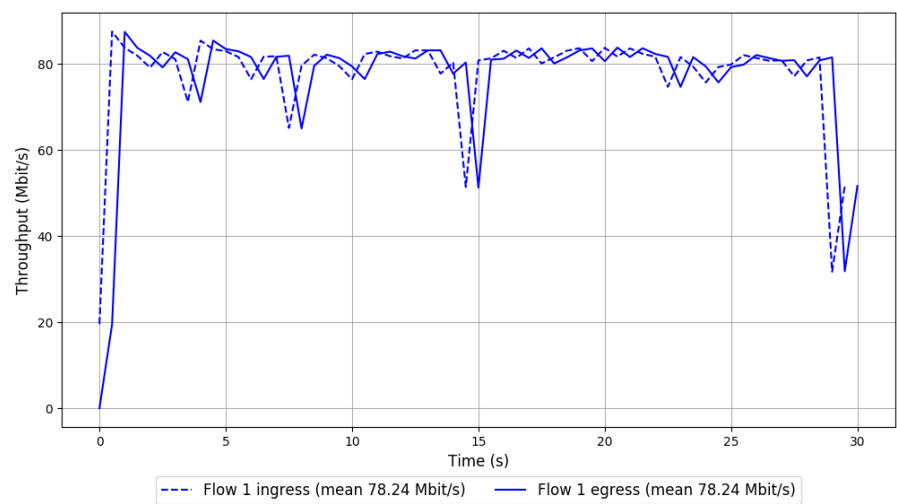
-- Flow 1:

Average throughput: 78.24 Mbit/s

95th percentile per-packet one-way delay: 0.911 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-02 19:18:20

End at: 2019-10-02 19:18:50

Local clock offset: 4.311 ms

Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.77 Mbit/s

95th percentile per-packet one-way delay: 0.839 ms

Loss rate: 0.00%

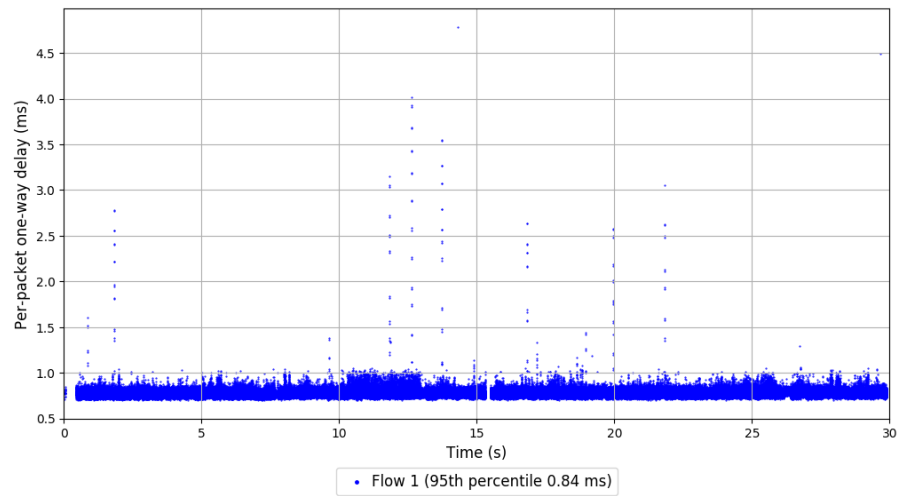
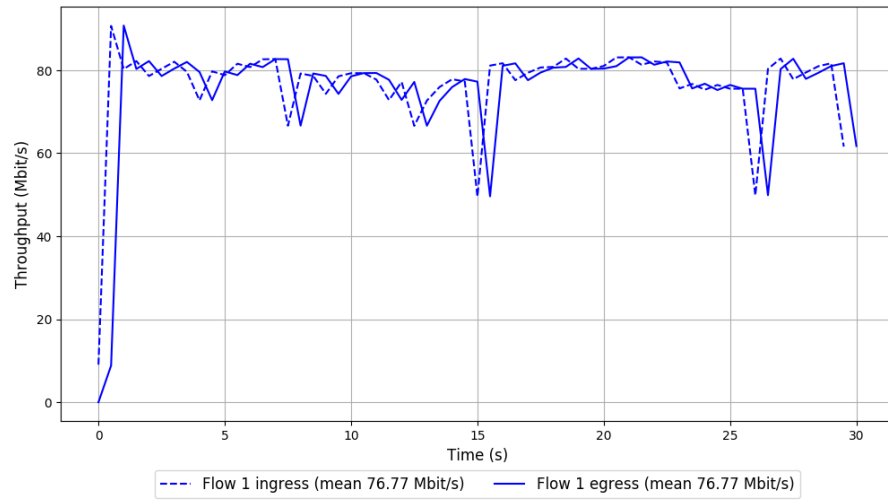
-- Flow 1:

Average throughput: 76.77 Mbit/s

95th percentile per-packet one-way delay: 0.839 ms

Loss rate: 0.00%

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





Run 5: Statistics of QUIC Cubic

Start at: 2019-10-02 19:51:54

End at: 2019-10-02 19:52:24

Local clock offset: 4.621 ms

Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 0.932 ms

Loss rate: 0.00%

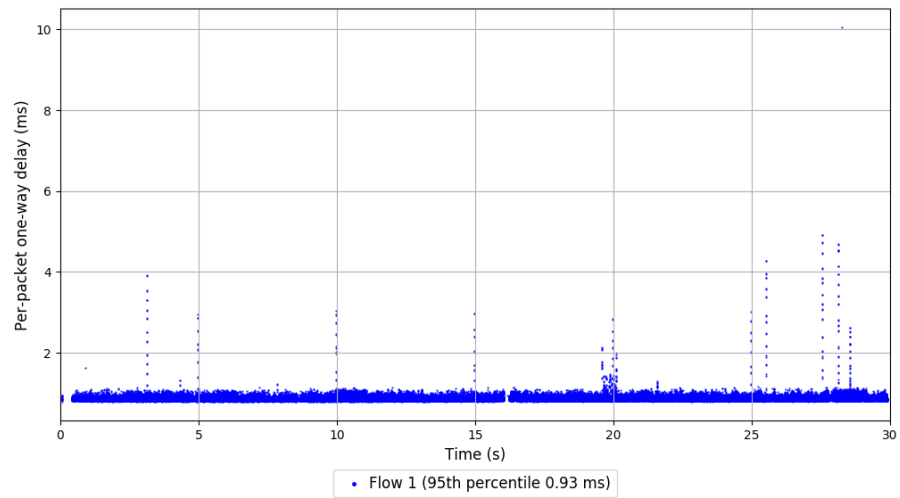
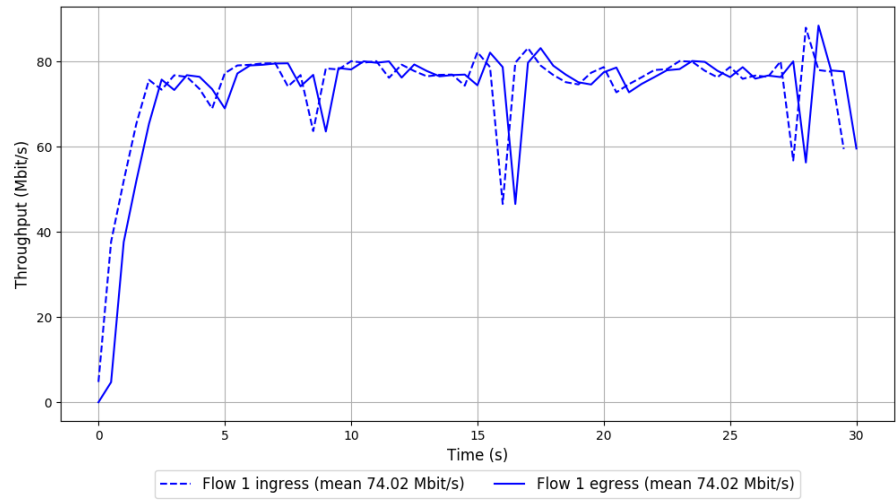
-- Flow 1:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 0.932 ms

Loss rate: 0.00%

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



Run 1: Statistics of SCReAM

Start at: 2019-10-02 17:34:58

End at: 2019-10-02 17:35:28

Local clock offset: 4.45 ms

Remote clock offset: 3.541 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.00%

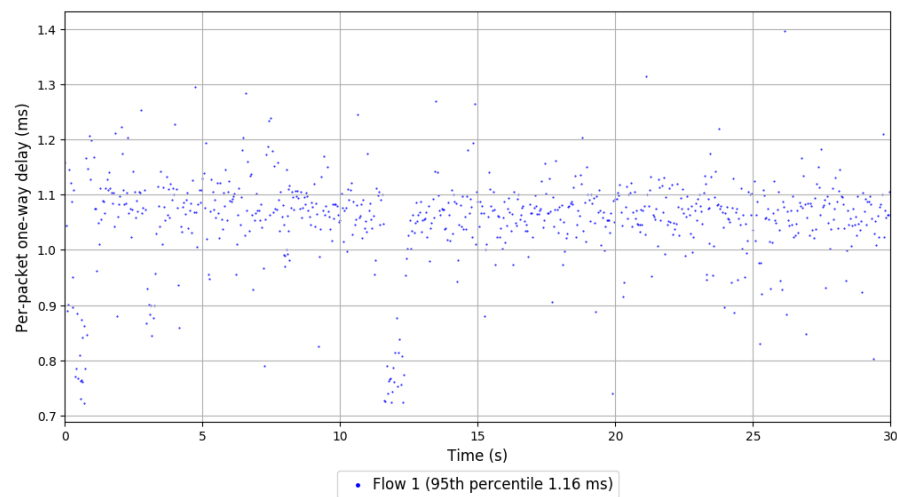
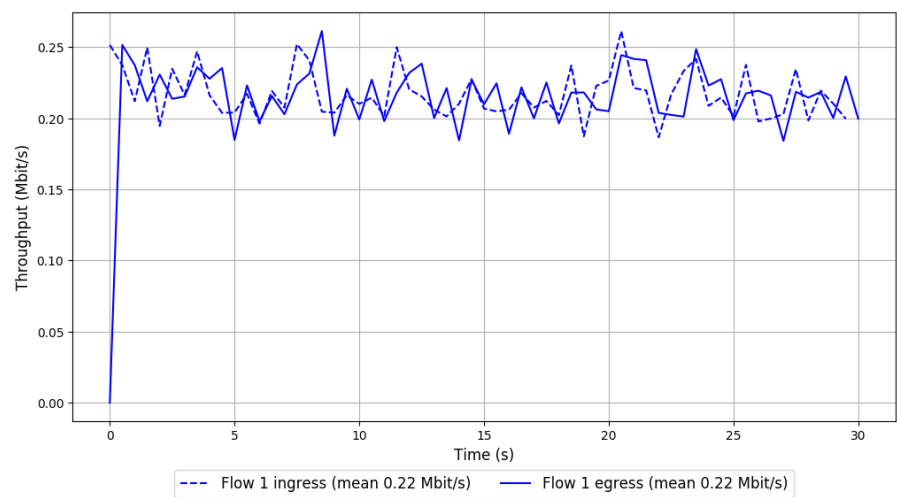
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-10-02 18:07:30

End at: 2019-10-02 18:08:00

Local clock offset: 4.284 ms

Remote clock offset: 3.61 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.00%

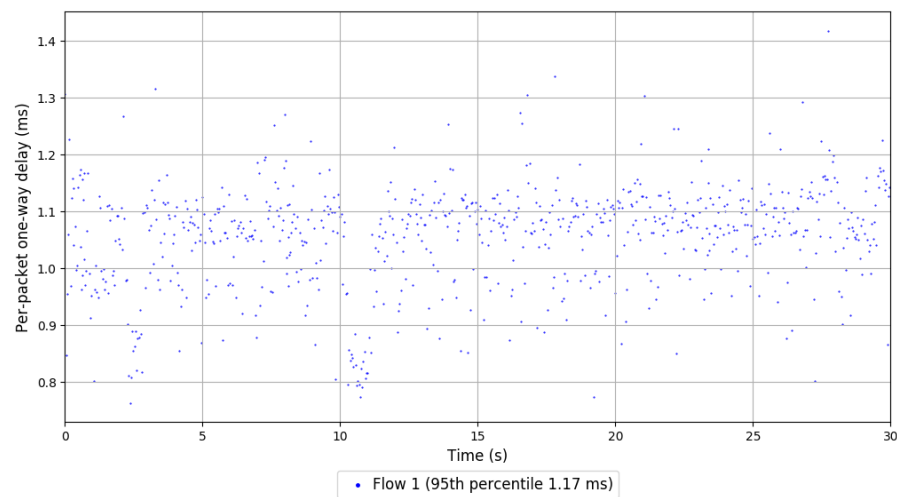
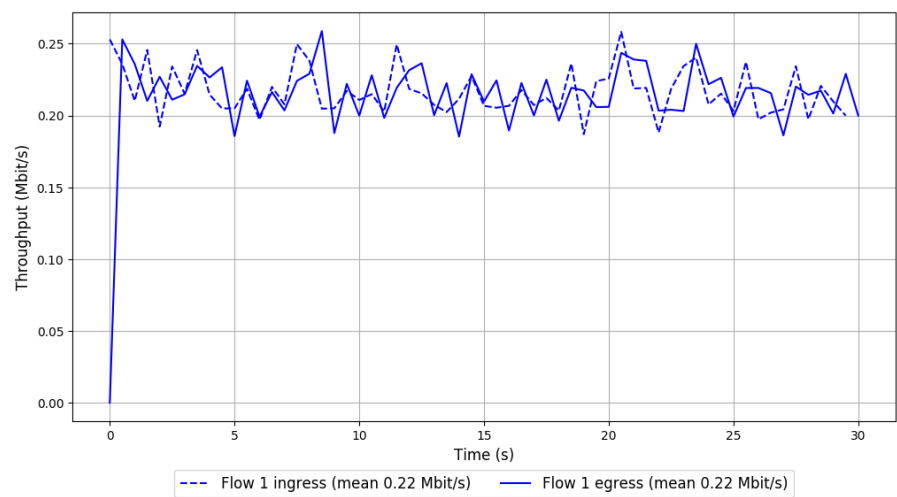
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

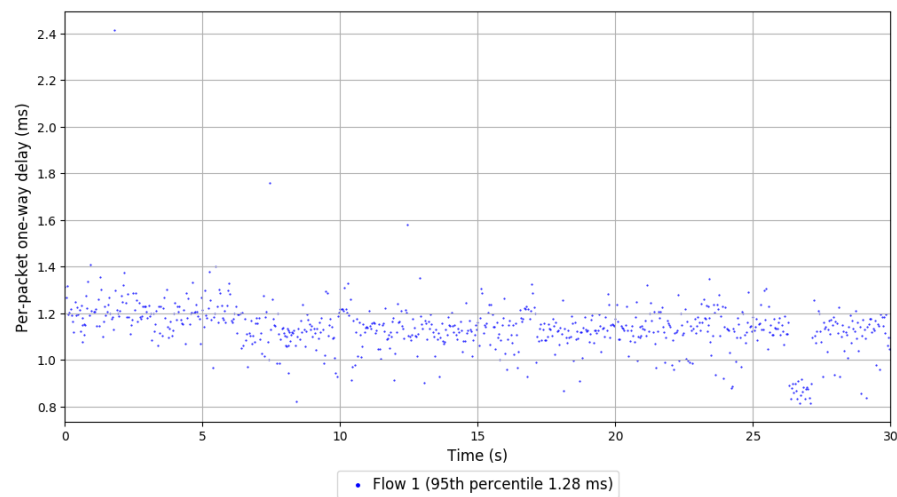
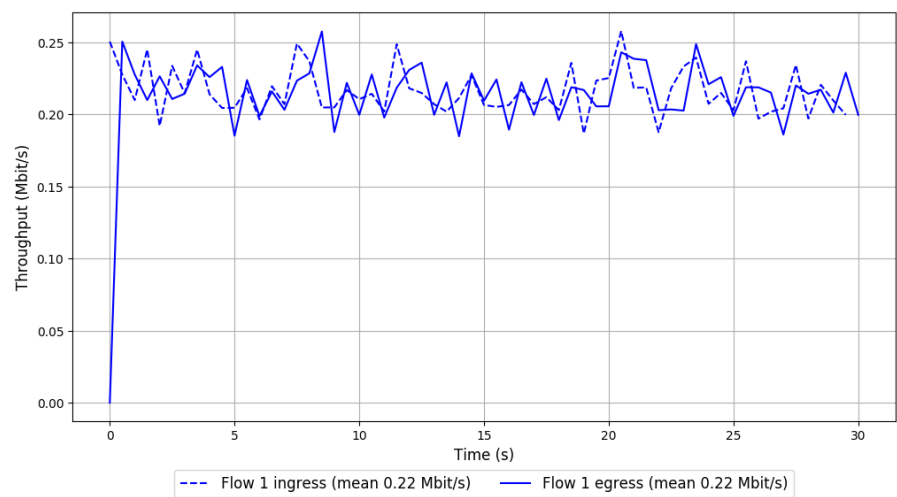


Run 3: Statistics of SCReAM

Start at: 2019-10-02 18:40:43  
End at: 2019-10-02 18:41:13  
Local clock offset: 4.537 ms  
Remote clock offset: -0.482 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.285 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.285 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



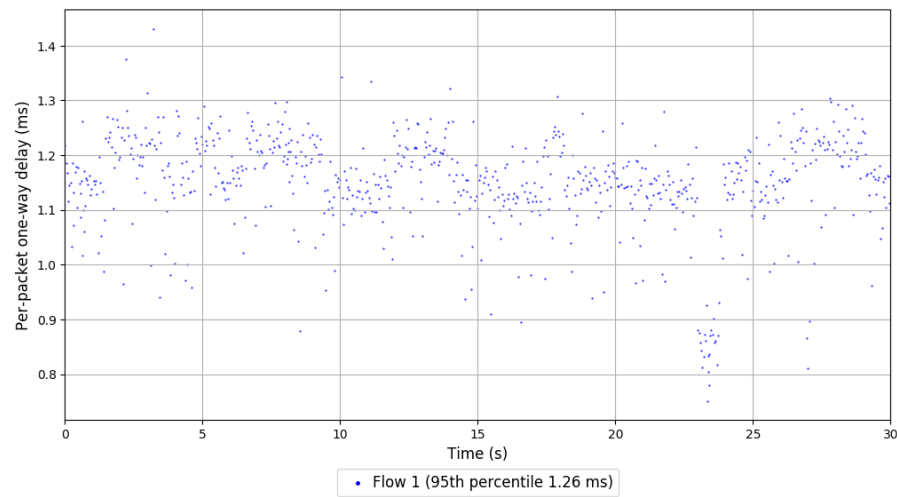
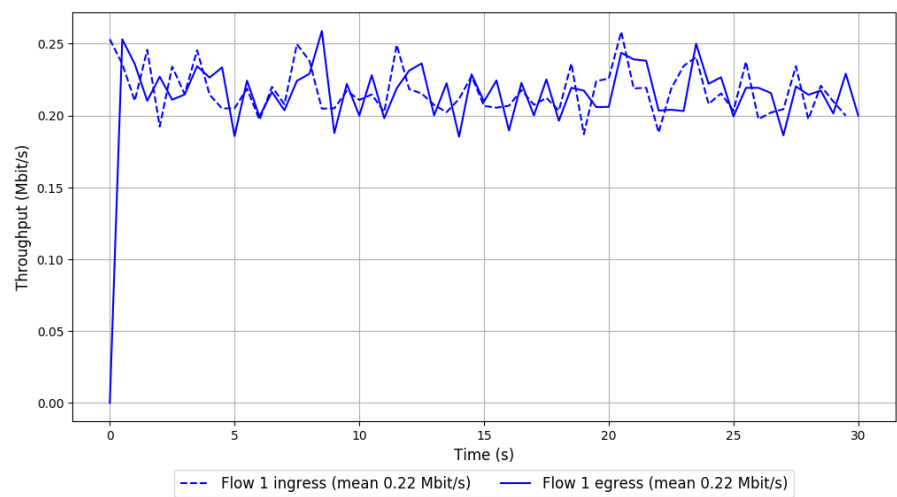


Run 4: Statistics of SCReAM

Start at: 2019-10-02 19:14:17  
End at: 2019-10-02 19:14:47  
Local clock offset: 4.293 ms  
Remote clock offset: -0.294 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.261 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.261 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

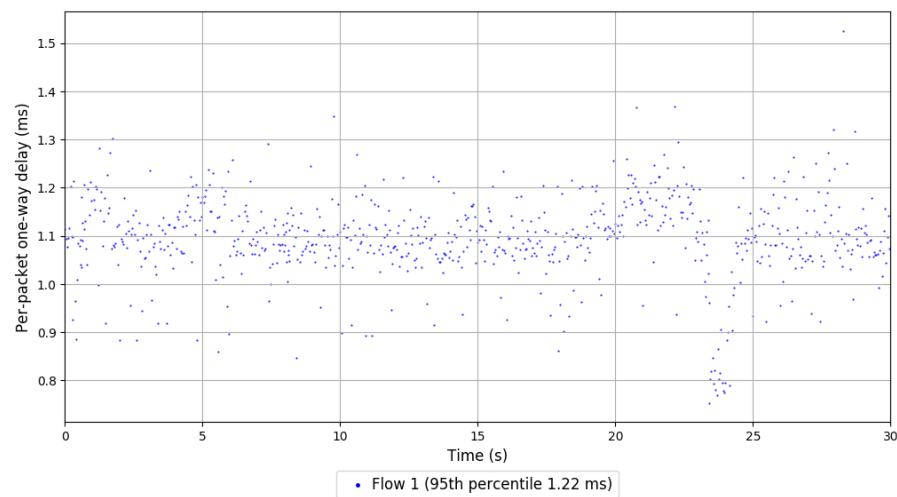
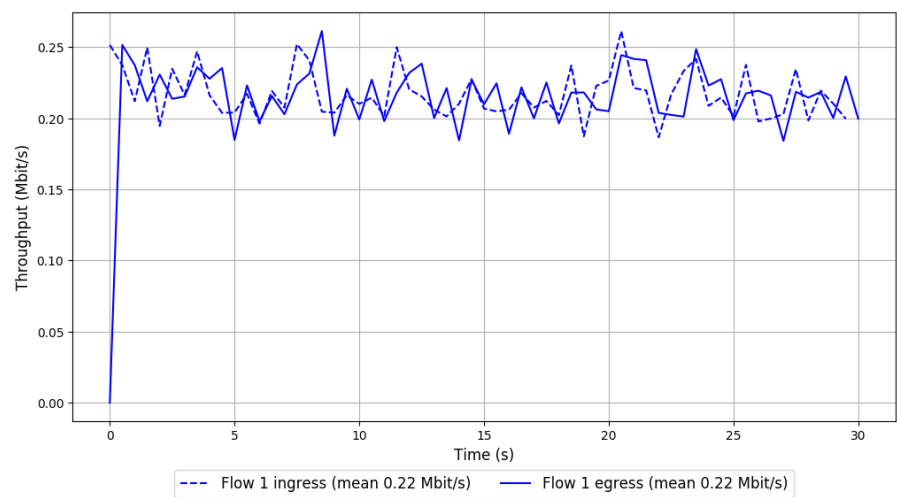


Run 5: Statistics of SCReAM

Start at: 2019-10-02 19:47:46  
End at: 2019-10-02 19:48:16  
Local clock offset: 4.586 ms  
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.222 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.222 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-10-02 17:43:15

End at: 2019-10-02 17:43:45

Local clock offset: 4.434 ms

Remote clock offset: 3.377 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 4.120 ms

Loss rate: 0.00%

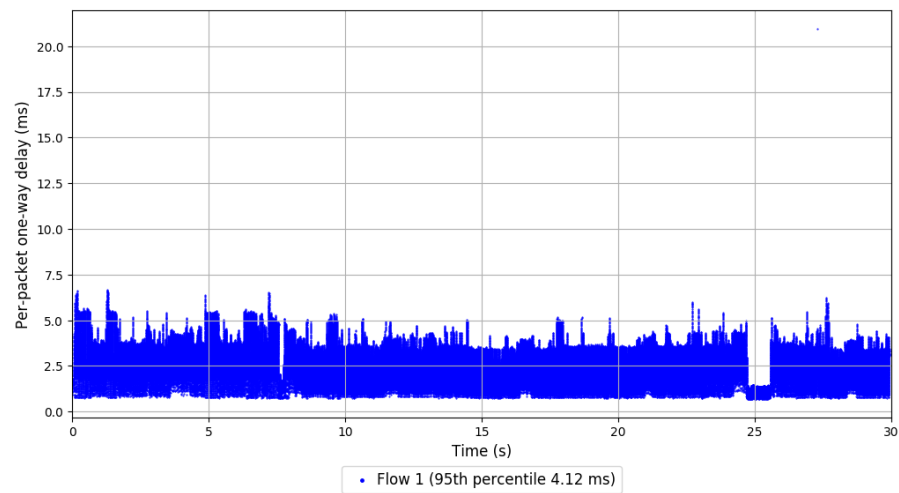
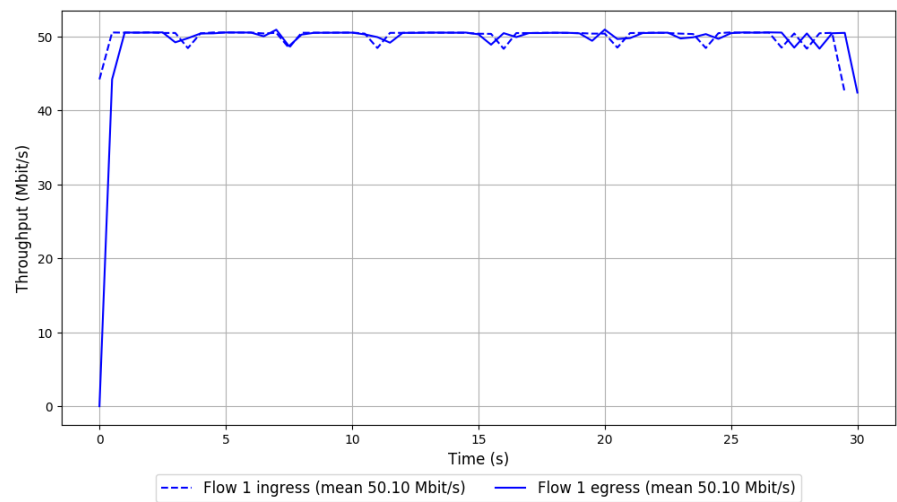
-- Flow 1:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 4.120 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-10-02 18:15:46

End at: 2019-10-02 18:16:16

Local clock offset: 4.494 ms

Remote clock offset: 2.344 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 4.476 ms

Loss rate: 0.01%

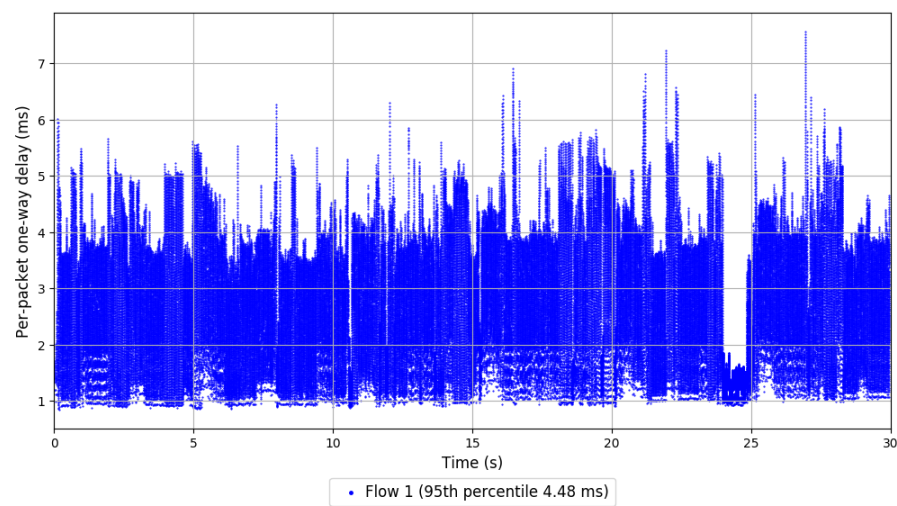
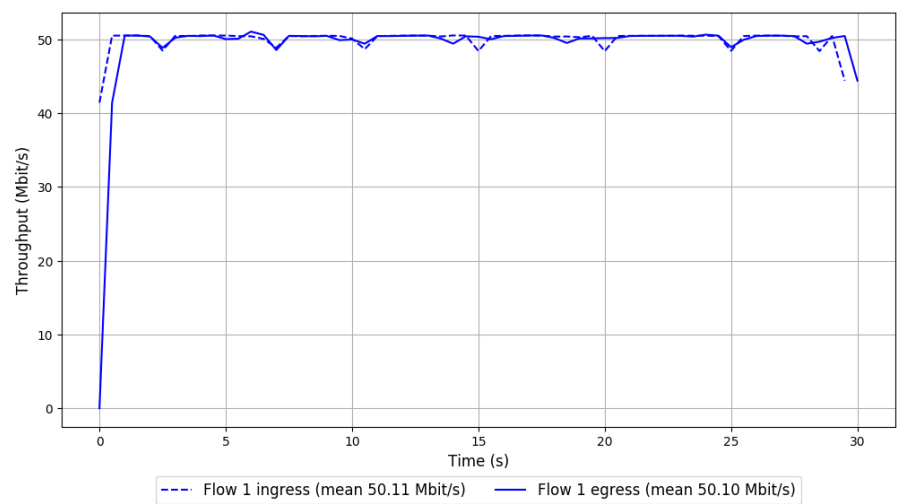
-- Flow 1:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 4.476 ms

Loss rate: 0.01%

Run 2: Report of Sprout — Data Link



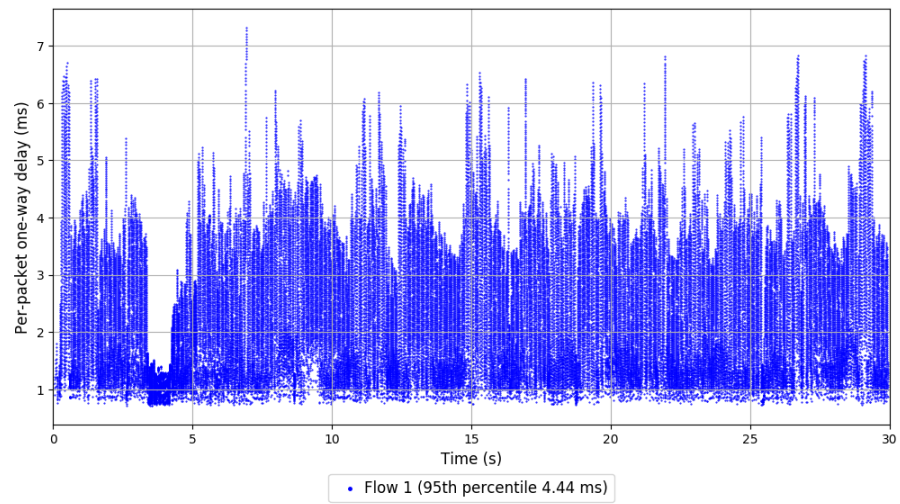
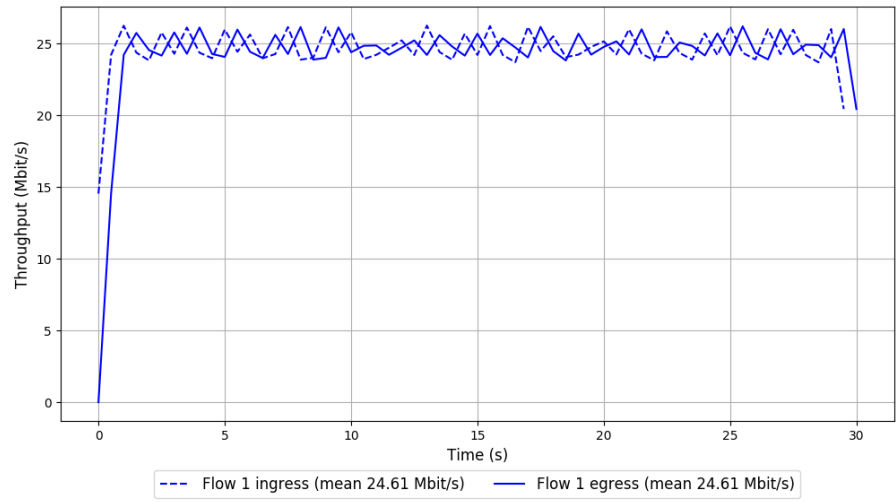


Run 3: Statistics of Sprout

Start at: 2019-10-02 18:49:06  
End at: 2019-10-02 18:49:36  
Local clock offset: 4.637 ms  
Remote clock offset: -0.526 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.61 Mbit/s  
95th percentile per-packet one-way delay: 4.438 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.61 Mbit/s  
95th percentile per-packet one-way delay: 4.438 ms  
Loss rate: 0.00%

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

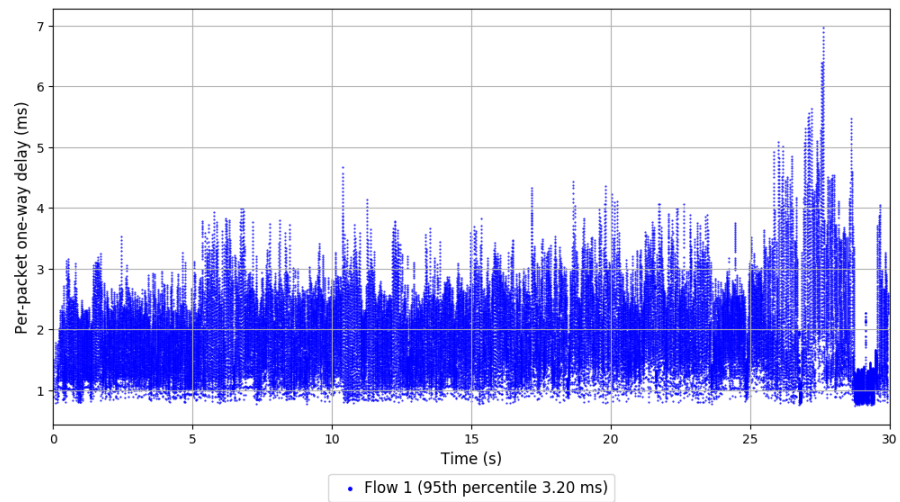
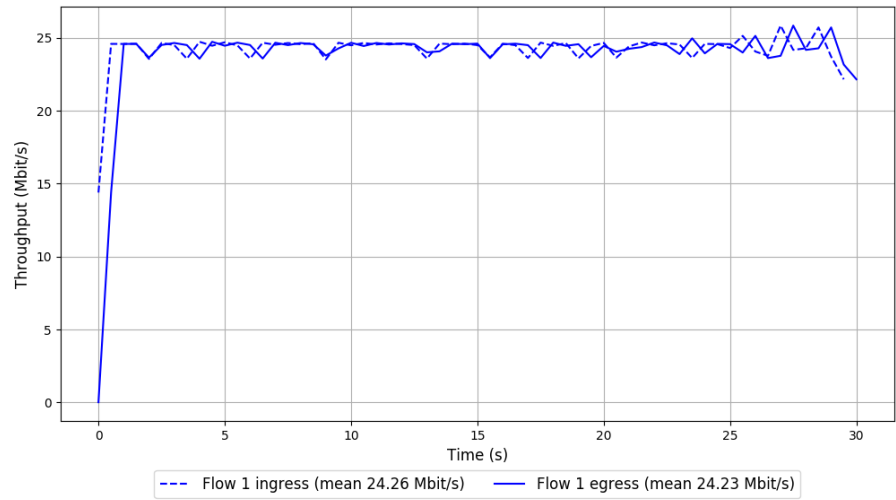


Run 4: Statistics of Sprout

Start at: 2019-10-02 19:22:41  
End at: 2019-10-02 19:23:11  
Local clock offset: 4.323 ms  
Remote clock offset: -0.278 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.23 Mbit/s  
95th percentile per-packet one-way delay: 3.198 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 24.23 Mbit/s  
95th percentile per-packet one-way delay: 3.198 ms  
Loss rate: 0.10%

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

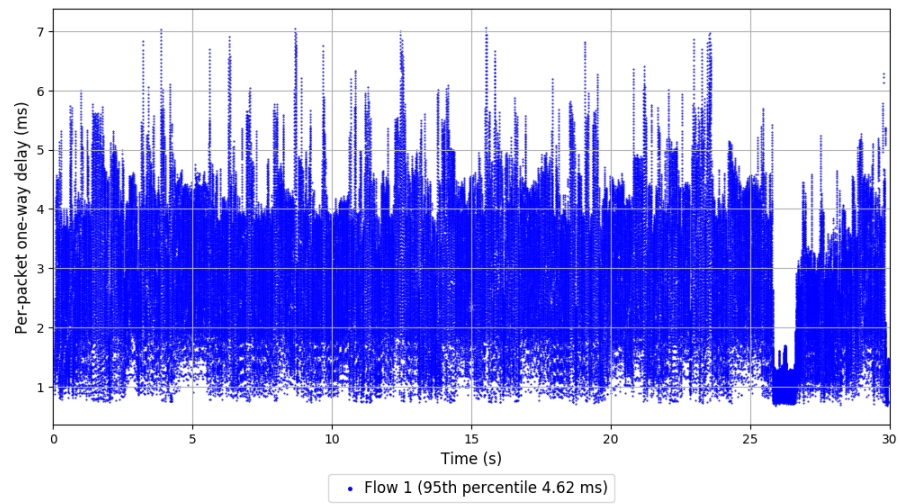
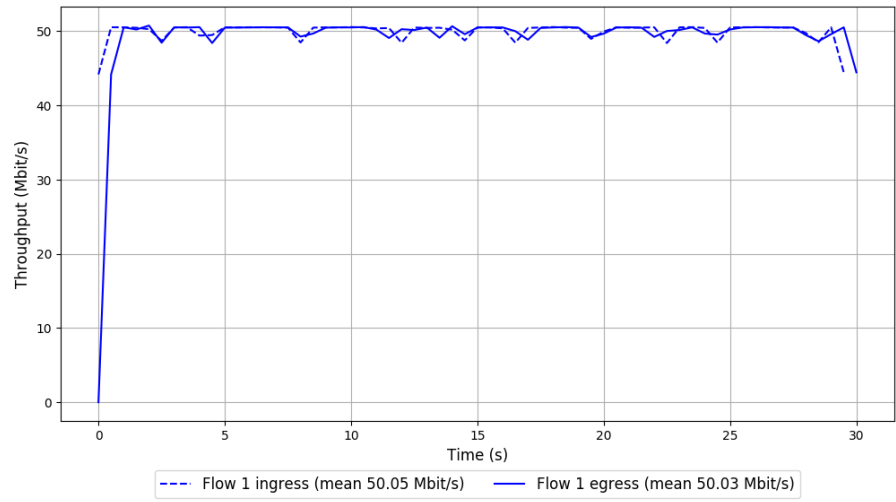


Run 5: Statistics of Sprout

Start at: 2019-10-02 19:56:14  
End at: 2019-10-02 19:56:44  
Local clock offset: 4.555 ms  
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.03 Mbit/s  
95th percentile per-packet one-way delay: 4.618 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 50.03 Mbit/s  
95th percentile per-packet one-way delay: 4.618 ms  
Loss rate: 0.04%

# Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

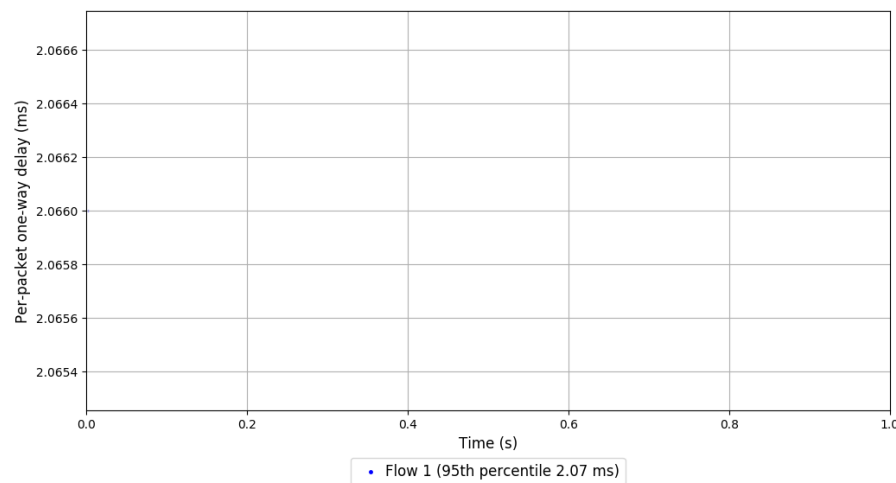
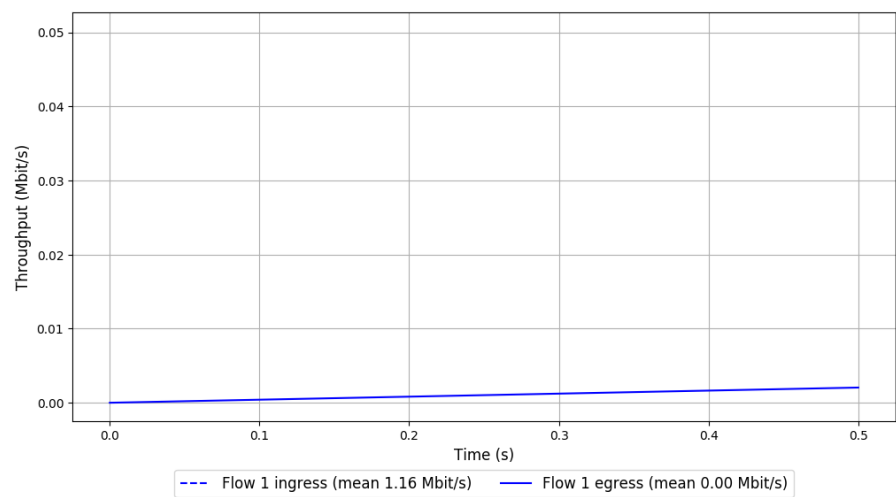
Start at: 2019-10-02 17:26:38

End at: 2019-10-02 17:27:08

Local clock offset: 3.954 ms

Remote clock offset: 3.345 ms

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





Run 2: Statistics of TaoVA-100x

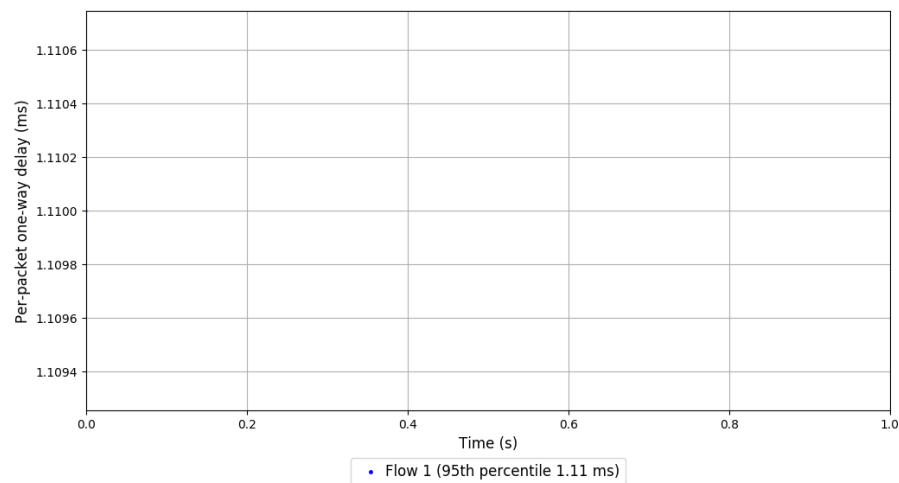
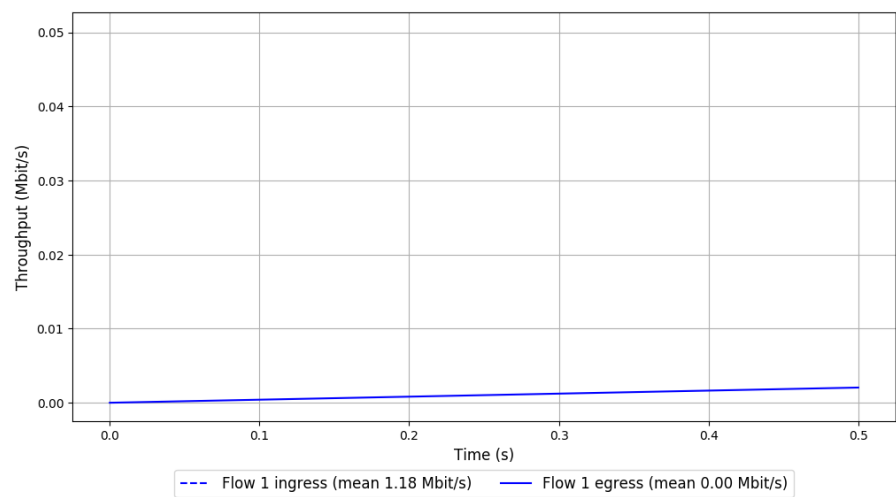
Start at: 2019-10-02 17:59:20

End at: 2019-10-02 17:59:50

Local clock offset: 4.243 ms

Remote clock offset: 3.43 ms

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



Run 3: Statistics of TaoVA-100x

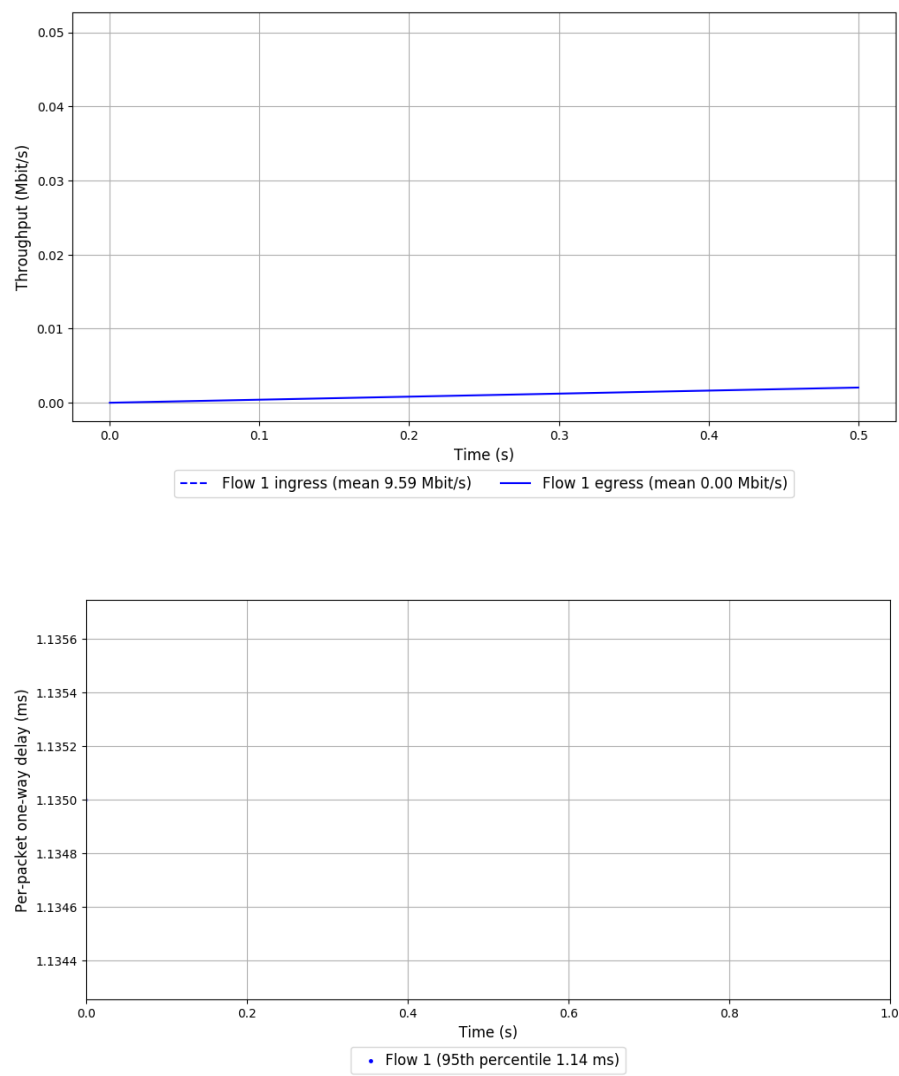
Start at: 2019-10-02 18:32:21

End at: 2019-10-02 18:32:51

Local clock offset: 4.518 ms

Remote clock offset: -0.186 ms

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



Run 4: Statistics of TaoVA-100x

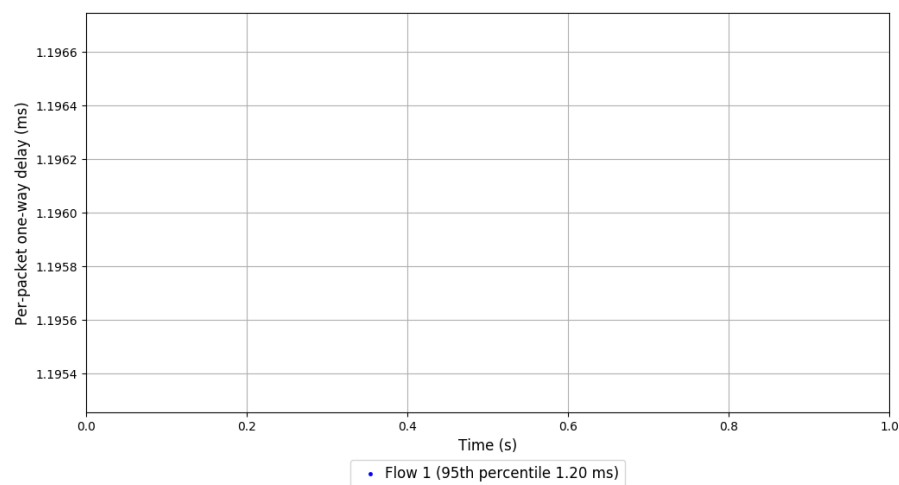
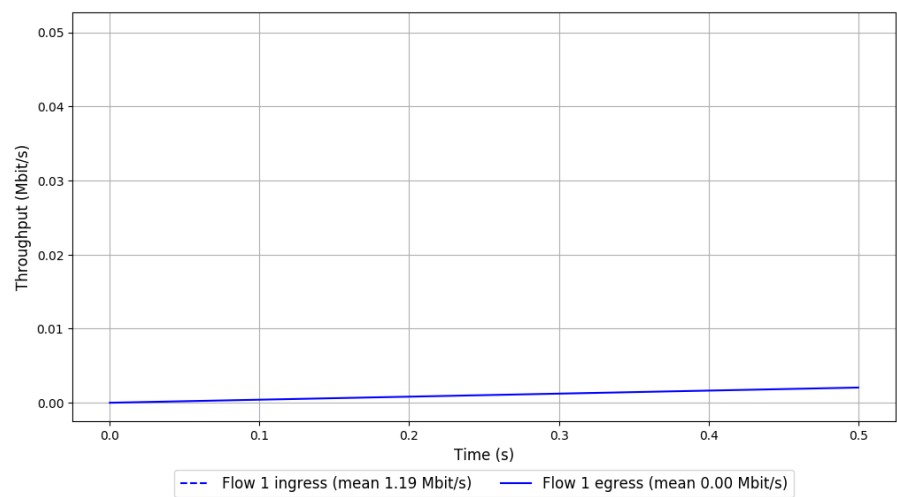
Start at: 2019-10-02 19:06:05

End at: 2019-10-02 19:06:35

Local clock offset: 4.334 ms

Remote clock offset: -0.257 ms

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



Run 5: Statistics of TaoVA-100x

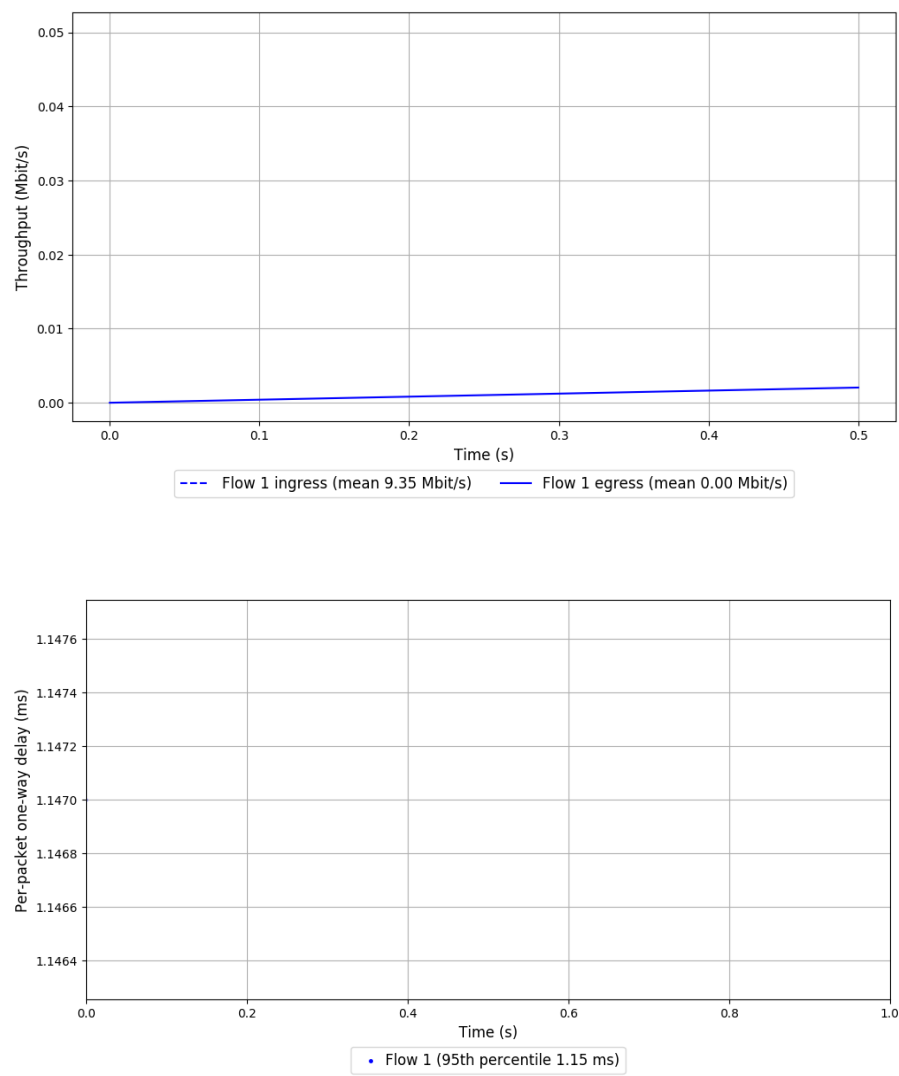
Start at: 2019-10-02 19:39:27

End at: 2019-10-02 19:39:57

Local clock offset: 4.507 ms

Remote clock offset: -0.187 ms

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





Run 1: Statistics of TCP Vegas

Start at: 2019-10-02 17:47:20

End at: 2019-10-02 17:47:50

Local clock offset: 4.221 ms

Remote clock offset: 3.324 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 115.00 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.00%

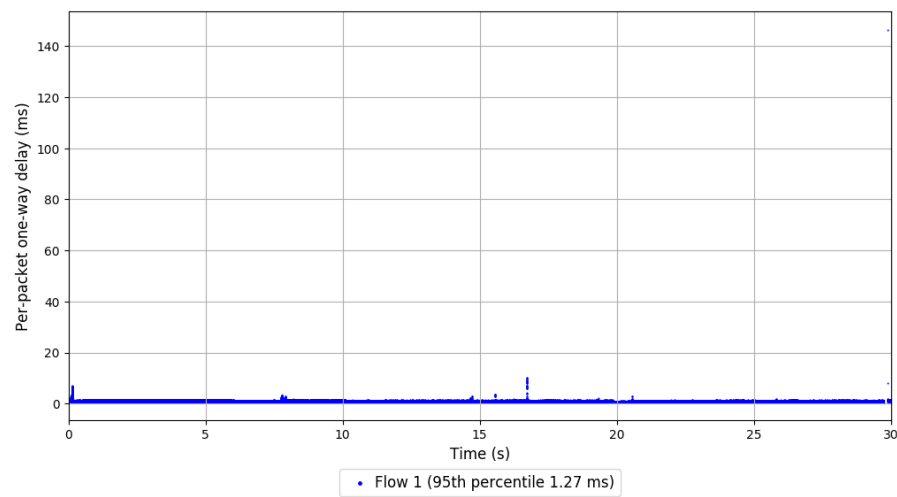
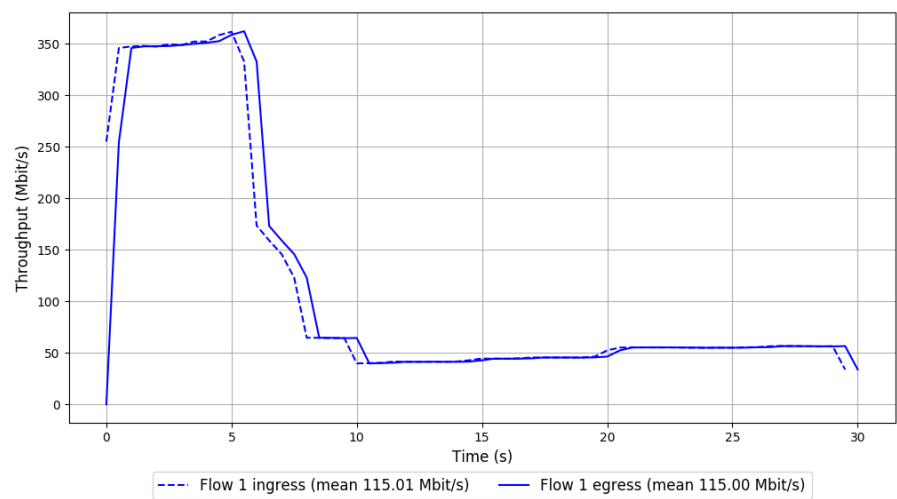
-- Flow 1:

Average throughput: 115.00 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-02 18:19:50

End at: 2019-10-02 18:20:20

Local clock offset: 4.604 ms

Remote clock offset: 1.321 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 235.84 Mbit/s

95th percentile per-packet one-way delay: 3.943 ms

Loss rate: 0.16%

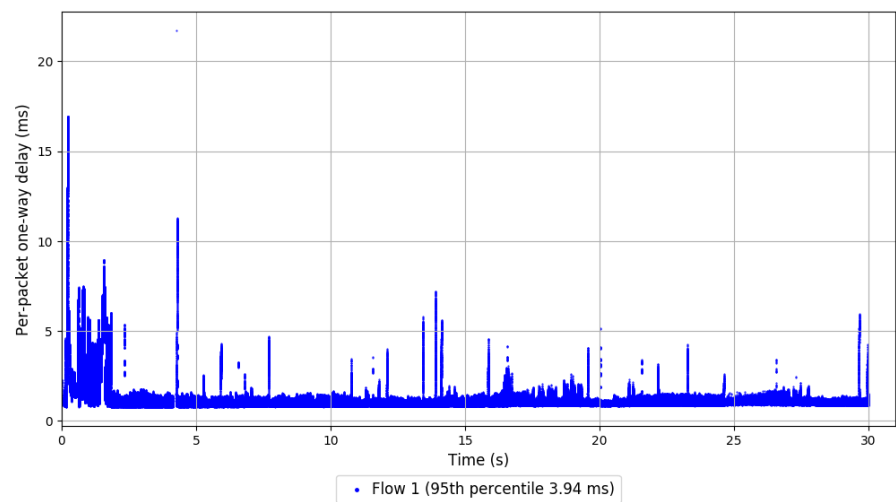
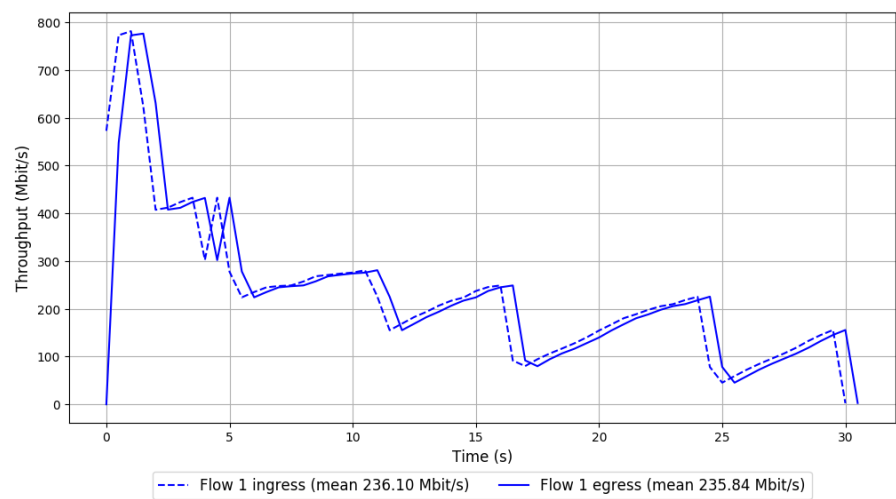
-- Flow 1:

Average throughput: 235.84 Mbit/s

95th percentile per-packet one-way delay: 3.943 ms

Loss rate: 0.16%

Run 2: Report of TCP Vegas — Data Link

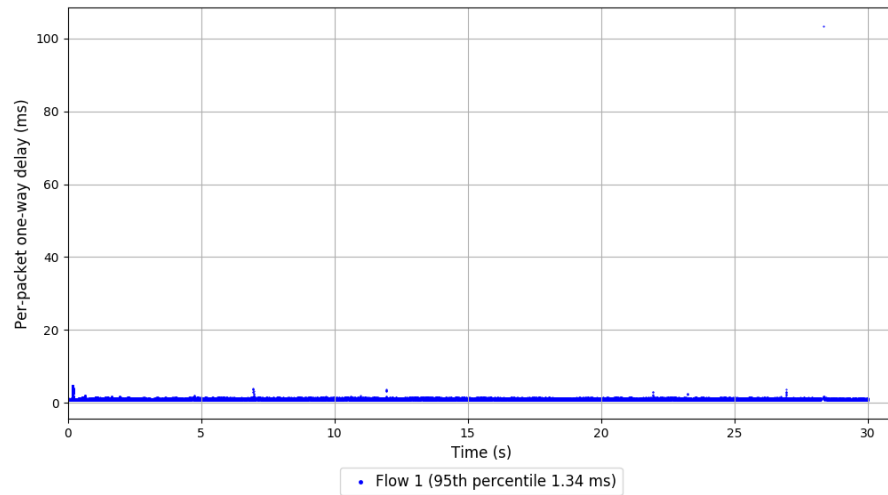
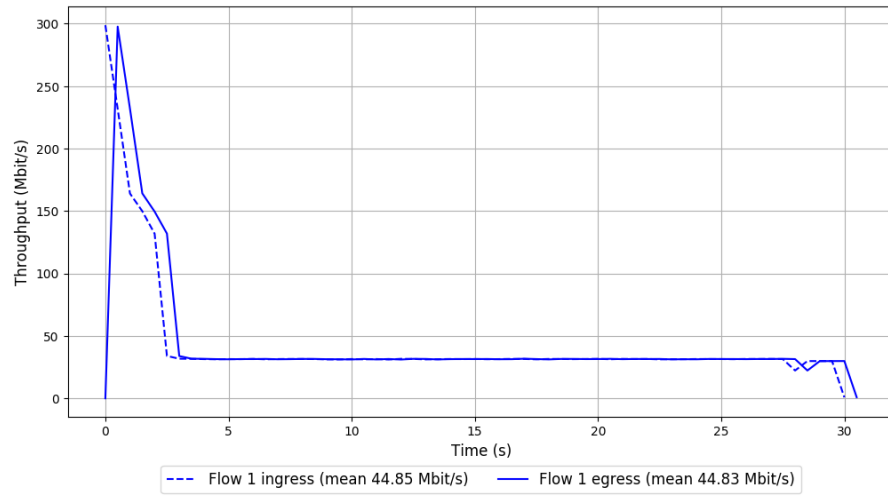


Run 3: Statistics of TCP Vegas

Start at: 2019-10-02 18:53:10  
End at: 2019-10-02 18:53:40  
Local clock offset: 4.685 ms  
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 44.83 Mbit/s  
95th percentile per-packet one-way delay: 1.343 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 44.83 Mbit/s  
95th percentile per-packet one-way delay: 1.343 ms  
Loss rate: 0.04%

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

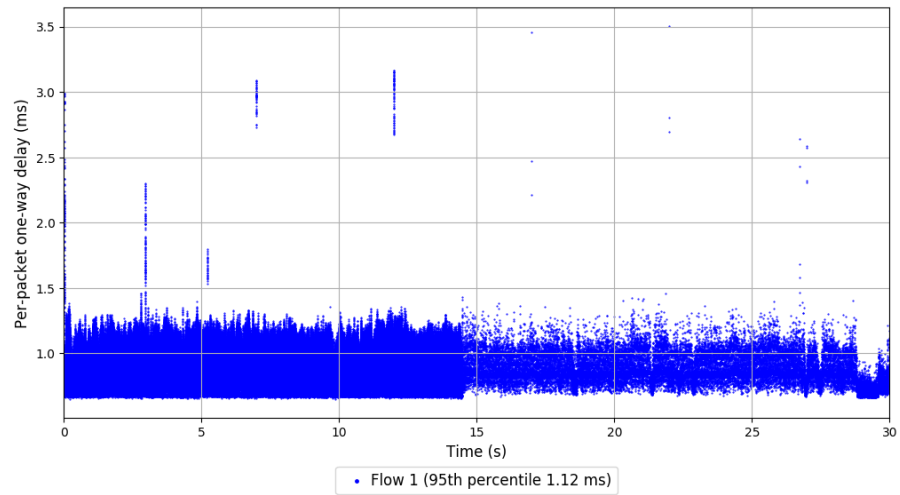
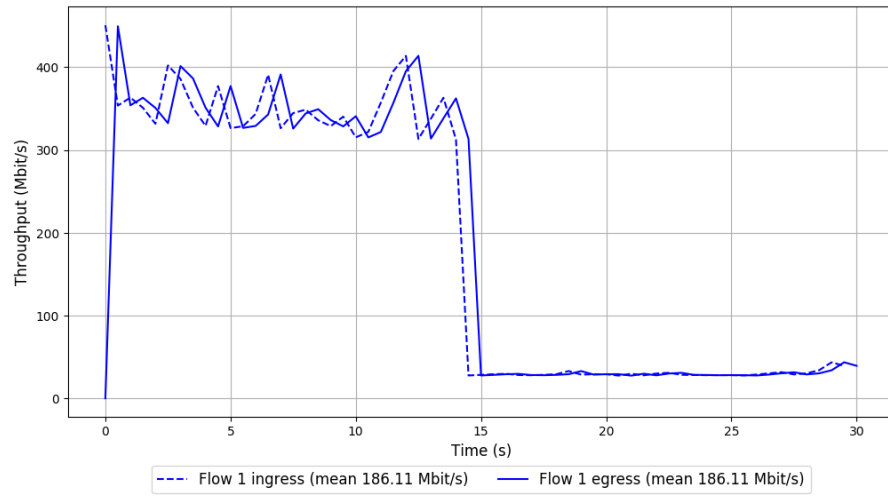


Run 4: Statistics of TCP Vegas

Start at: 2019-10-02 19:26:41  
End at: 2019-10-02 19:27:11  
Local clock offset: 4.357 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 186.11 Mbit/s  
95th percentile per-packet one-way delay: 1.116 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 186.11 Mbit/s  
95th percentile per-packet one-way delay: 1.116 ms  
Loss rate: 0.00%

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



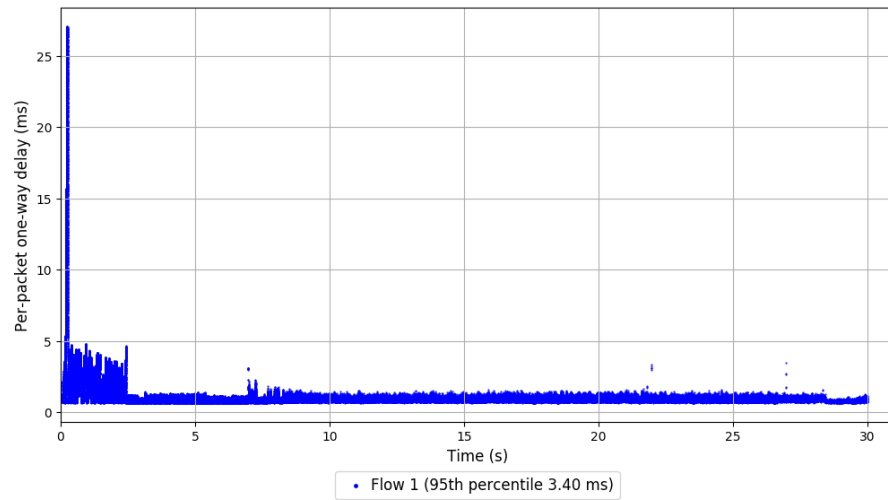
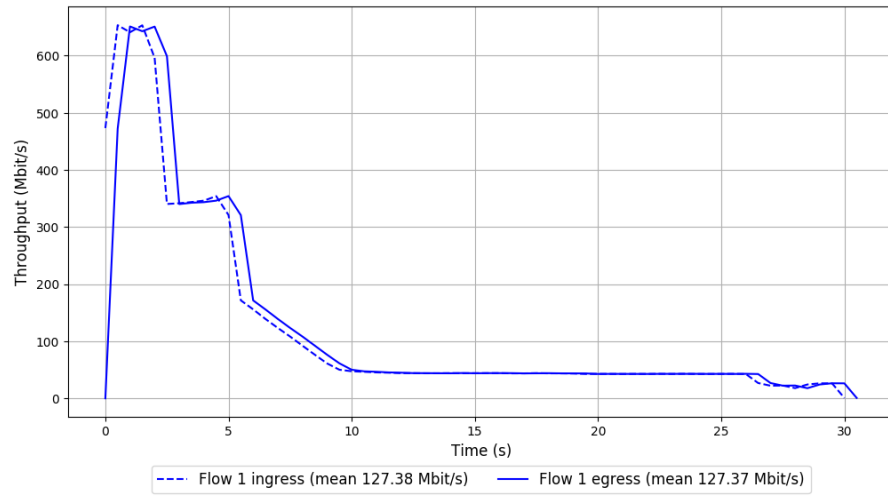


Run 5: Statistics of TCP Vegas

Start at: 2019-10-02 20:00:11  
End at: 2019-10-02 20:00:41  
Local clock offset: 4.19 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 127.37 Mbit/s  
95th percentile per-packet one-way delay: 3.404 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 127.37 Mbit/s  
95th percentile per-packet one-way delay: 3.404 ms  
Loss rate: 0.00%

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



Run 1: Statistics of Verus

Start at: 2019-10-02 17:36:11

End at: 2019-10-02 17:36:41

Local clock offset: 4.405 ms

Remote clock offset: 3.547 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 229.82 Mbit/s

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

Loss rate: 0.03%

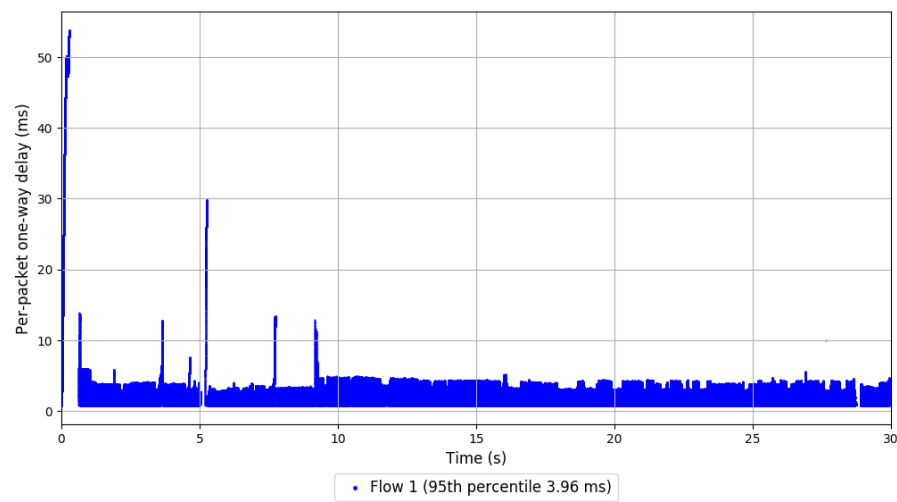
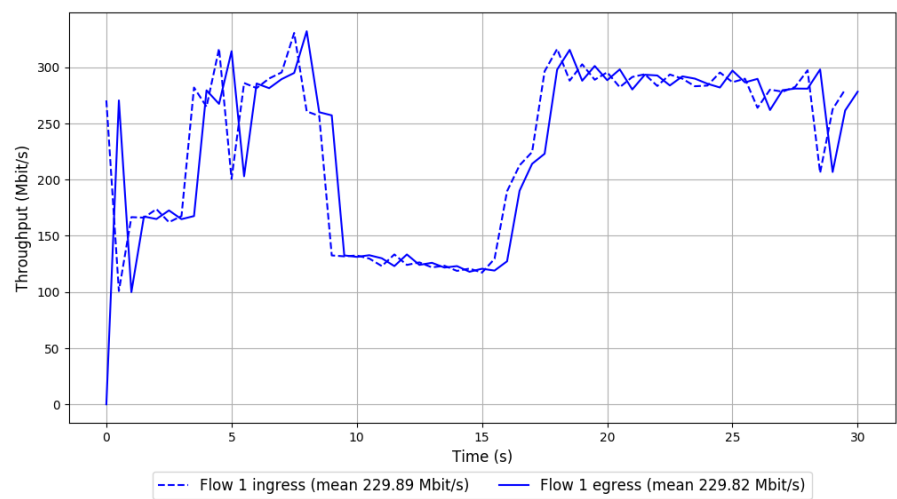
-- Flow 1:

Average throughput: 229.82 Mbit/s

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

Loss rate: 0.03%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-10-02 18:08:43

End at: 2019-10-02 18:09:13

Local clock offset: 4.337 ms

Remote clock offset: 3.696 ms

# Below is generated by plot.py at 2019-10-02 21:10:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 204.16 Mbit/s

95th percentile per-packet one-way delay: 34.983 ms

Loss rate: 15.87%

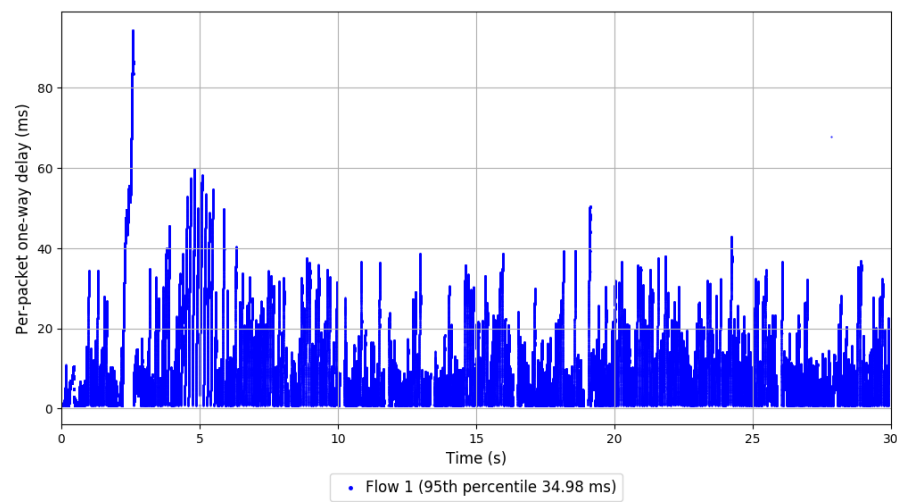
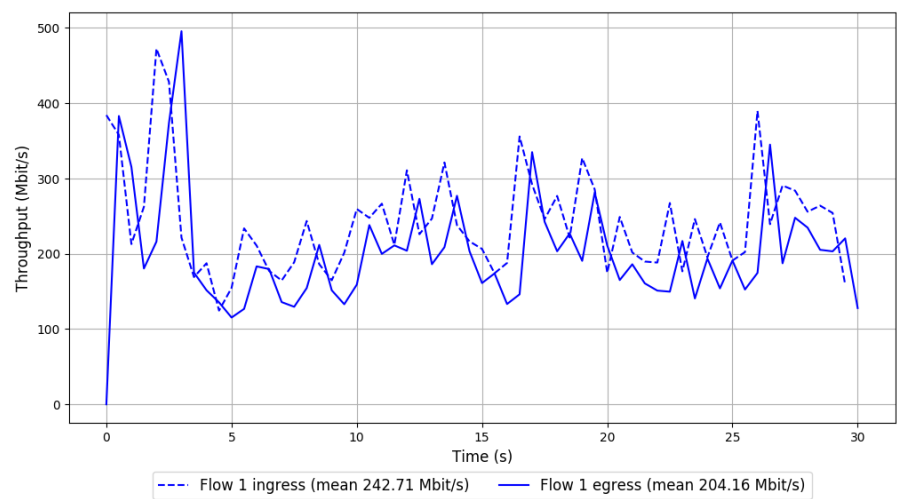
-- Flow 1:

Average throughput: 204.16 Mbit/s

95th percentile per-packet one-way delay: 34.983 ms

Loss rate: 15.87%

Run 2: Report of Verus — Data Link

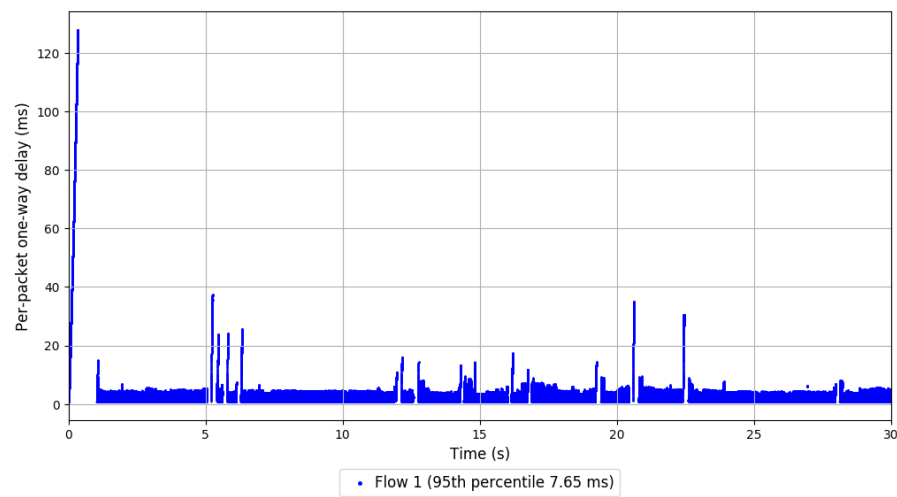
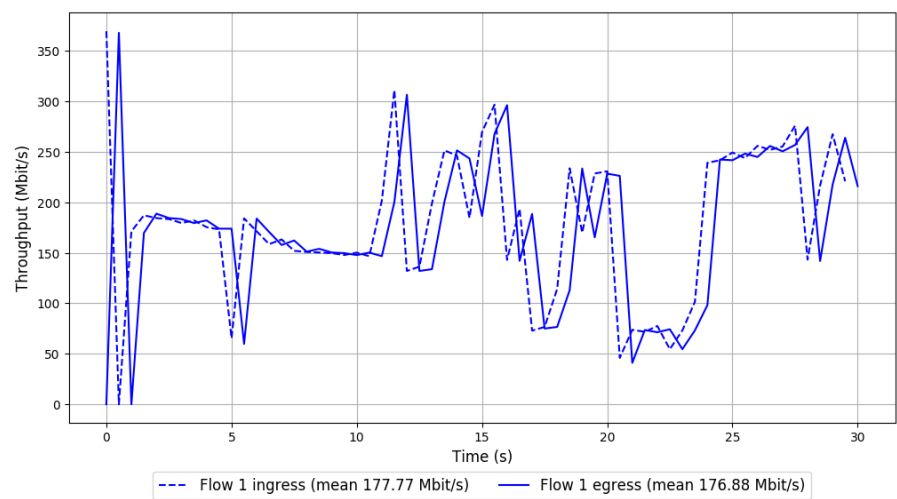


Run 3: Statistics of Verus

Start at: 2019-10-02 18:41:57  
End at: 2019-10-02 18:42:27  
Local clock offset: 4.538 ms  
Remote clock offset: -0.504 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 176.88 Mbit/s  
95th percentile per-packet one-way delay: 7.649 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 176.88 Mbit/s  
95th percentile per-packet one-way delay: 7.649 ms  
Loss rate: 0.49%

Run 3: Report of Verus — Data Link



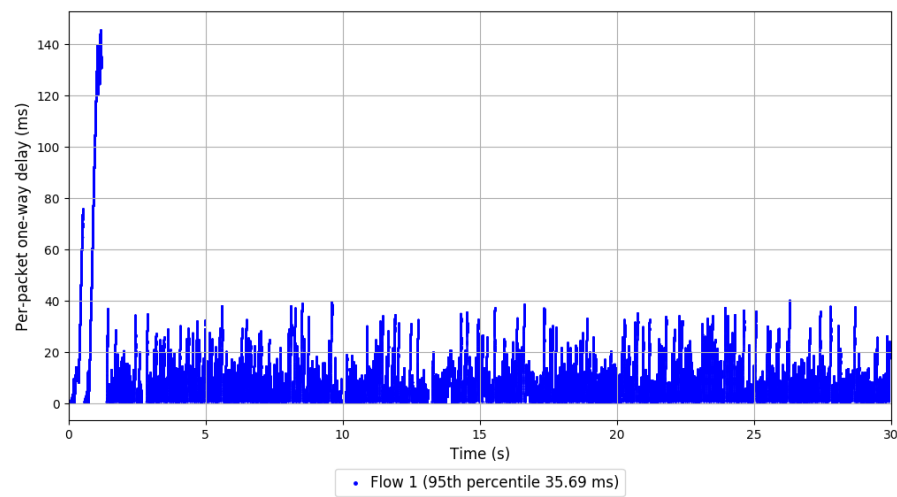
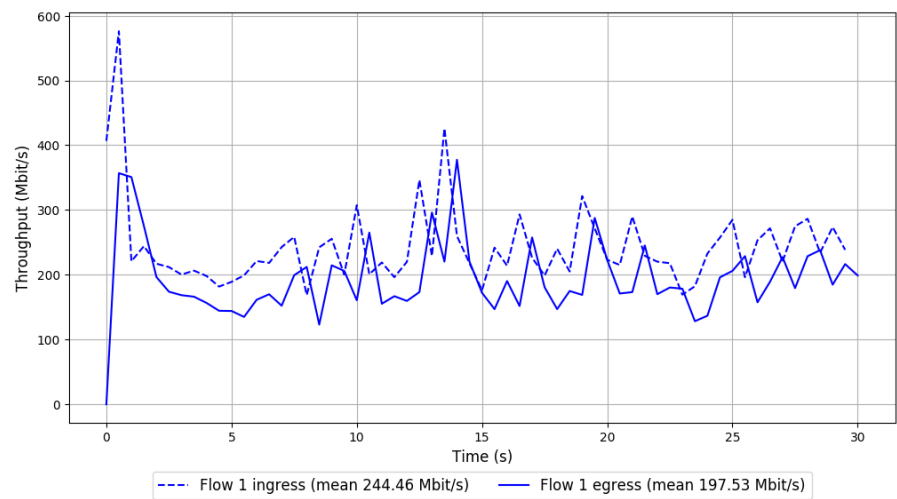


Run 4: Statistics of Verus

Start at: 2019-10-02 19:15:30  
End at: 2019-10-02 19:16:00  
Local clock offset: 4.289 ms  
Remote clock offset: -0.357 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 197.53 Mbit/s  
95th percentile per-packet one-way delay: 35.687 ms  
Loss rate: 19.16%  
-- Flow 1:  
Average throughput: 197.53 Mbit/s  
95th percentile per-packet one-way delay: 35.687 ms  
Loss rate: 19.16%

Run 4: Report of Verus — Data Link

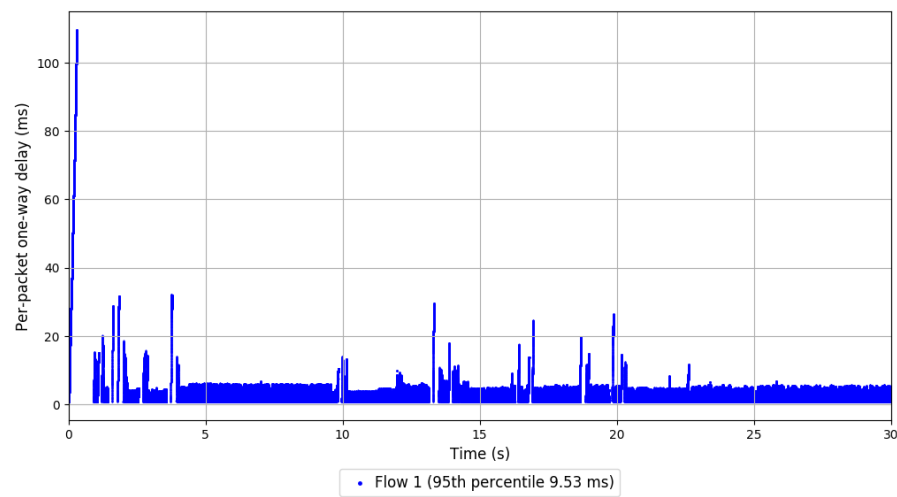
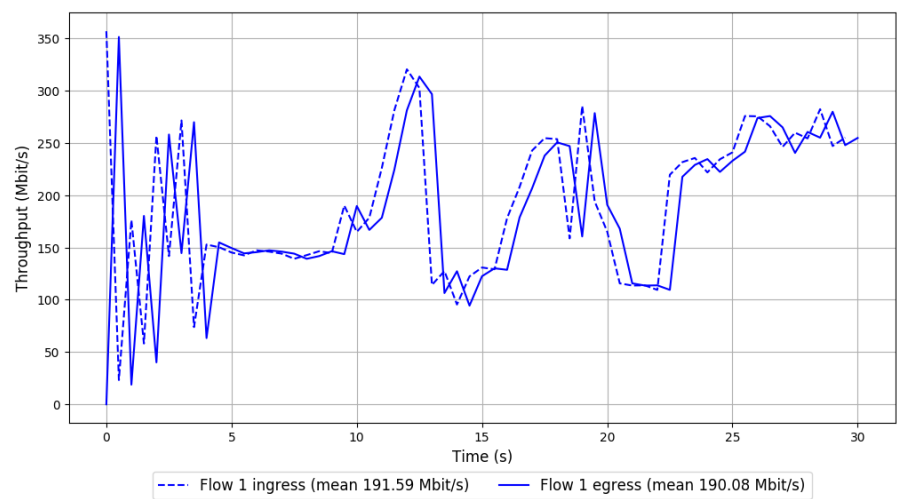


Run 5: Statistics of Verus

Start at: 2019-10-02 19:48:59  
End at: 2019-10-02 19:49:29  
Local clock offset: 4.624 ms  
Remote clock offset: -0.261 ms

# Below is generated by plot.py at 2019-10-02 21:10:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 190.08 Mbit/s  
95th percentile per-packet one-way delay: 9.525 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 190.08 Mbit/s  
95th percentile per-packet one-way delay: 9.525 ms  
Loss rate: 0.79%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-02 17:40:09

End at: 2019-10-02 17:40:39

Local clock offset: 4.579 ms

Remote clock offset: 3.418 ms

# Below is generated by plot.py at 2019-10-02 21:11:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 401.27 Mbit/s

95th percentile per-packet one-way delay: 40.983 ms

Loss rate: 0.00%

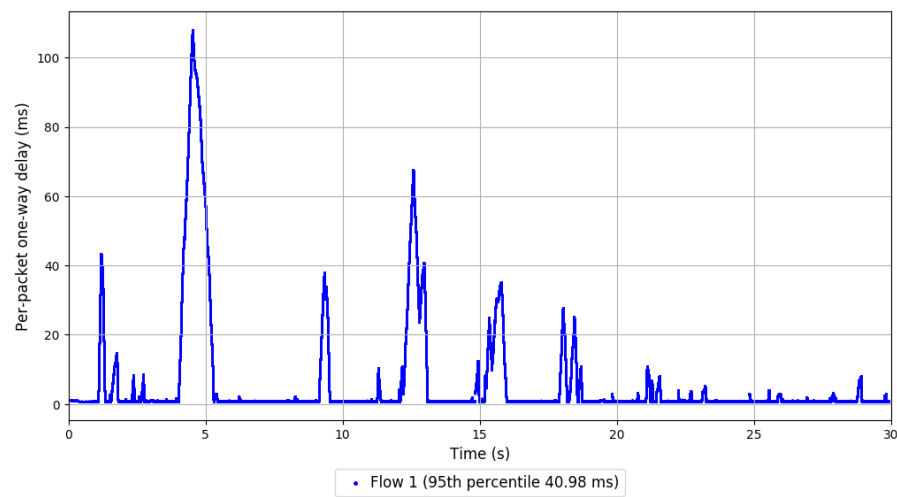
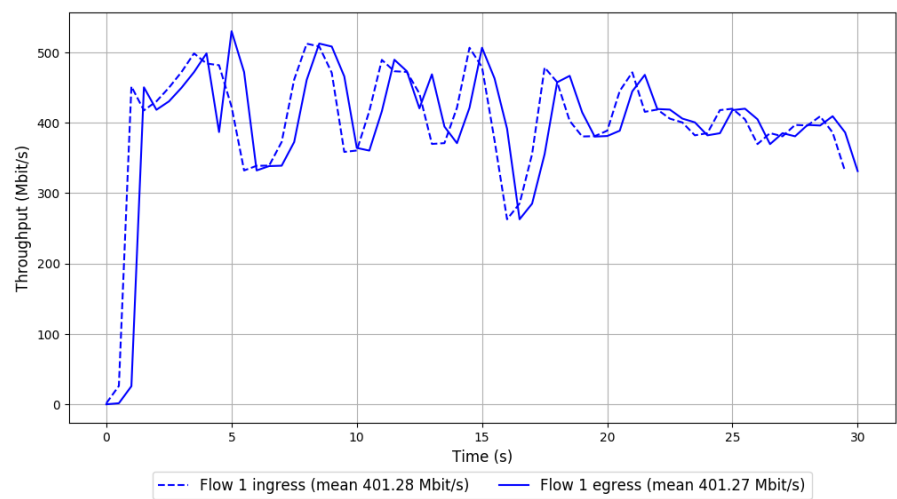
-- Flow 1:

Average throughput: 401.27 Mbit/s

95th percentile per-packet one-way delay: 40.983 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-02 18:12:47

End at: 2019-10-02 18:13:17

Local clock offset: 4.415 ms

Remote clock offset: 3.32 ms

# Below is generated by plot.py at 2019-10-02 21:11:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 232.07 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.02%

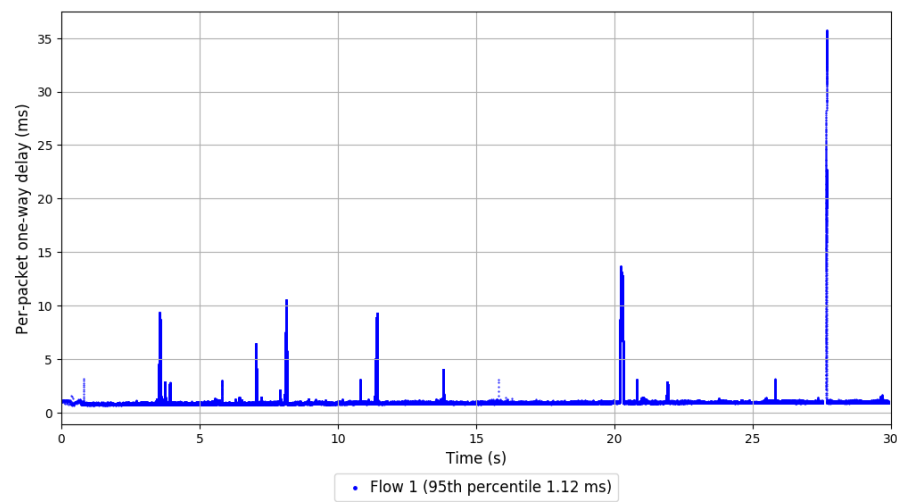
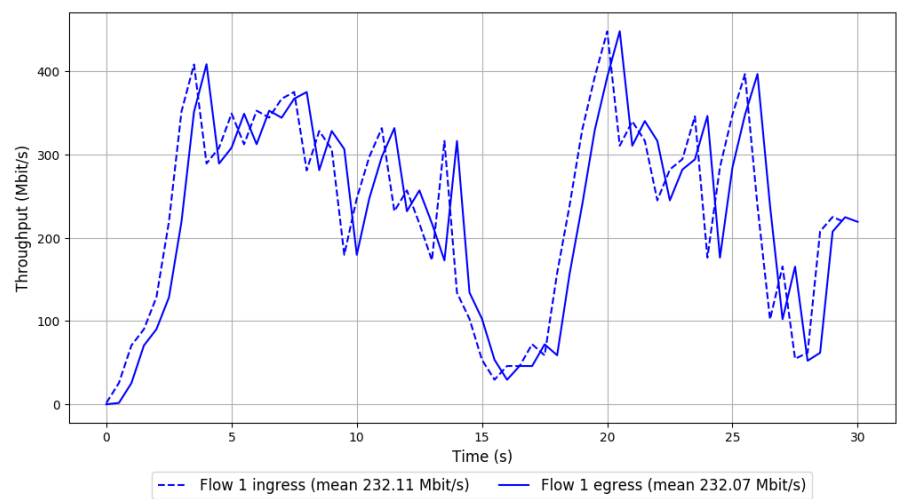
-- Flow 1:

Average throughput: 232.07 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.02%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-10-02 18:46:02

End at: 2019-10-02 18:46:32

Local clock offset: 4.574 ms

Remote clock offset: -0.665 ms

# Below is generated by plot.py at 2019-10-02 21:11:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 388.47 Mbit/s

95th percentile per-packet one-way delay: 16.290 ms

Loss rate: 0.00%

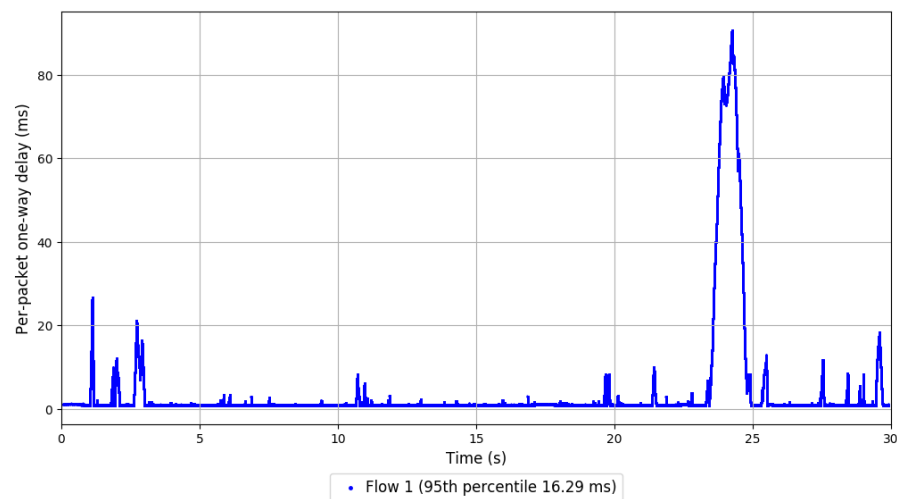
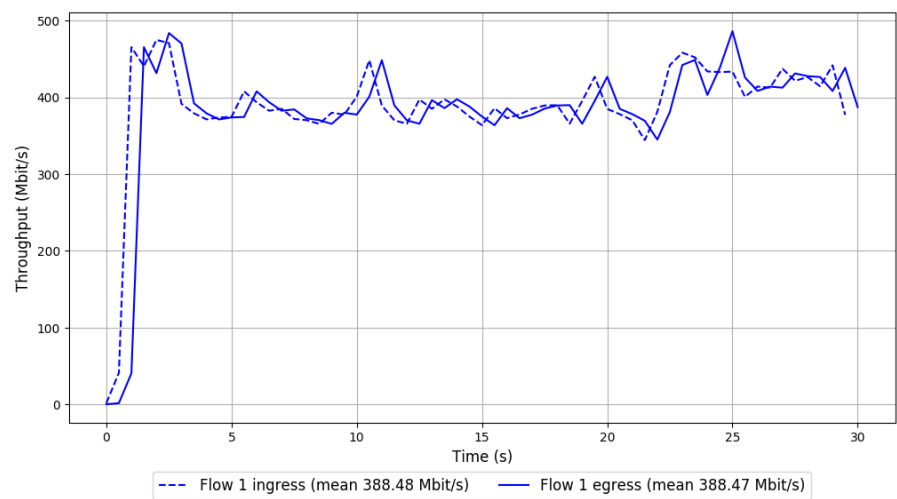
-- Flow 1:

Average throughput: 388.47 Mbit/s

95th percentile per-packet one-way delay: 16.290 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

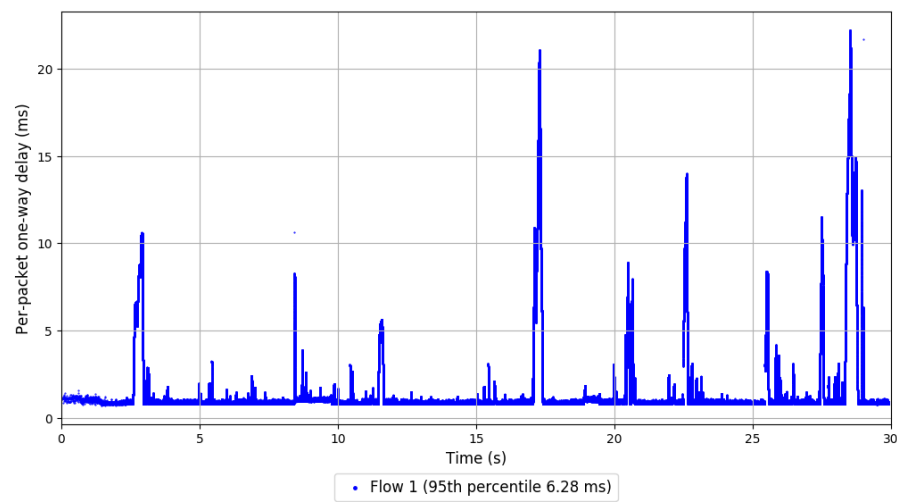
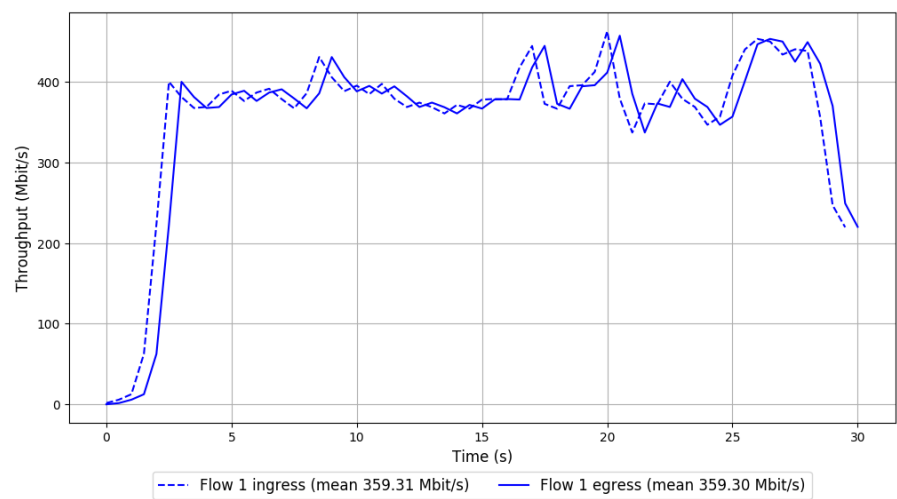


Run 4: Statistics of PCC-Vivace

Start at: 2019-10-02 19:19:36  
End at: 2019-10-02 19:20:06  
Local clock offset: 4.318 ms  
Remote clock offset: -0.363 ms

# Below is generated by plot.py at 2019-10-02 21:11:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 359.30 Mbit/s  
95th percentile per-packet one-way delay: 6.276 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 359.30 Mbit/s  
95th percentile per-packet one-way delay: 6.276 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

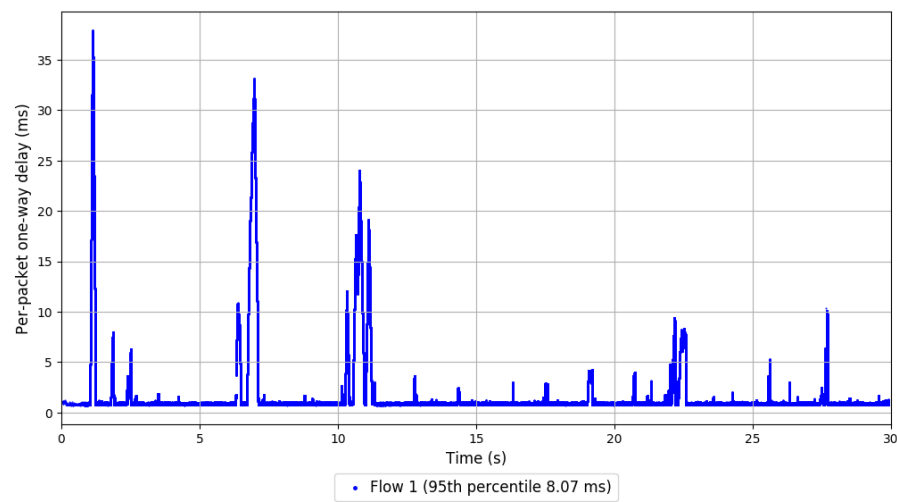
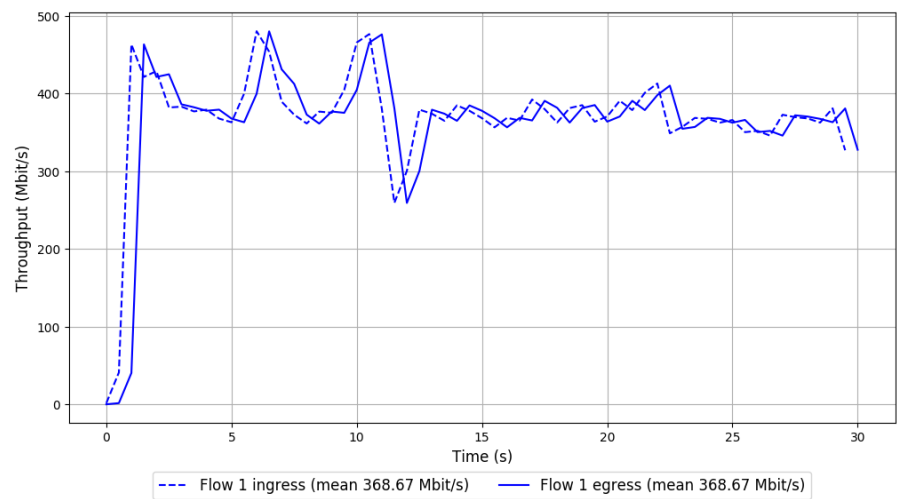


Run 5: Statistics of PCC-Vivace

Start at: 2019-10-02 19:53:09  
End at: 2019-10-02 19:53:40  
Local clock offset: 4.677 ms  
Remote clock offset: -0.282 ms

# Below is generated by plot.py at 2019-10-02 21:11:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 368.67 Mbit/s  
95th percentile per-packet one-way delay: 8.066 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 368.67 Mbit/s  
95th percentile per-packet one-way delay: 8.066 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-02 17:33:45

End at: 2019-10-02 17:34:15

Local clock offset: 4.524 ms

Remote clock offset: 3.439 ms

# Below is generated by plot.py at 2019-10-02 21:11:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

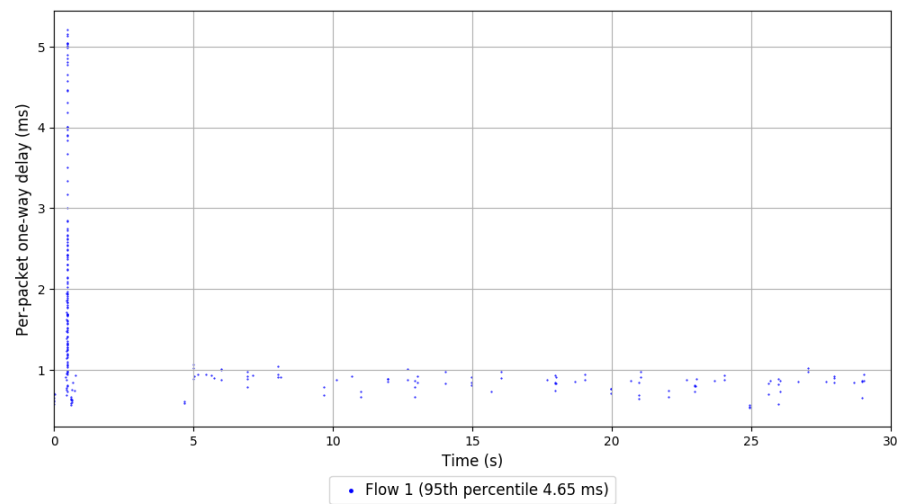
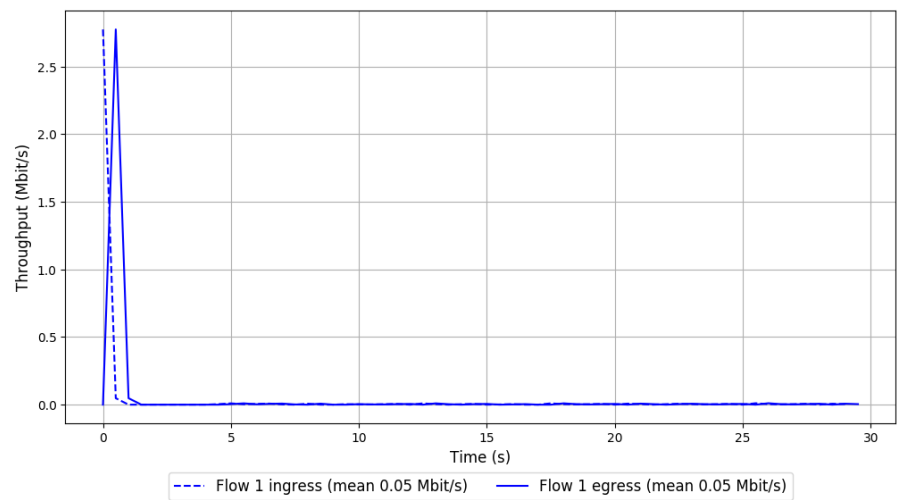
-- Flow 1:

Average throughput: 0.05 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link





Run 2: Statistics of WebRTC media

Start at: 2019-10-02 18:06:16

End at: 2019-10-02 18:06:46

Local clock offset: 4.317 ms

Remote clock offset: 3.591 ms

# Below is generated by plot.py at 2019-10-02 21:11:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.241 ms

Loss rate: 0.00%

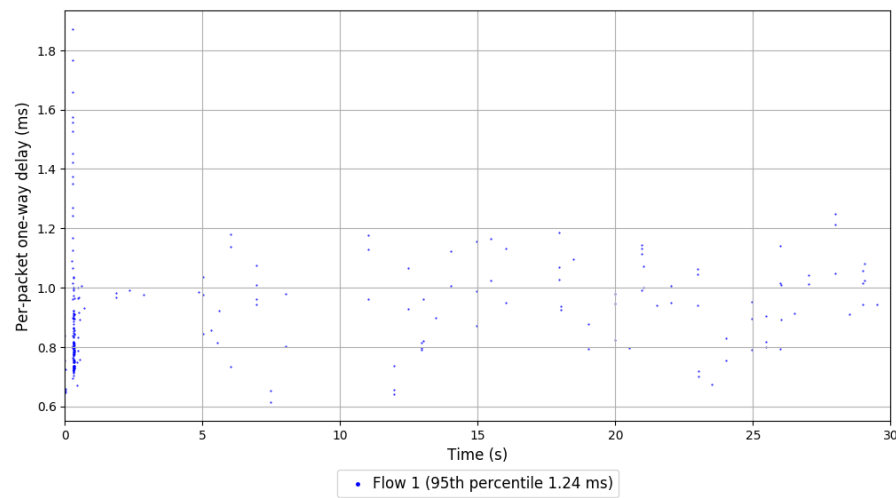
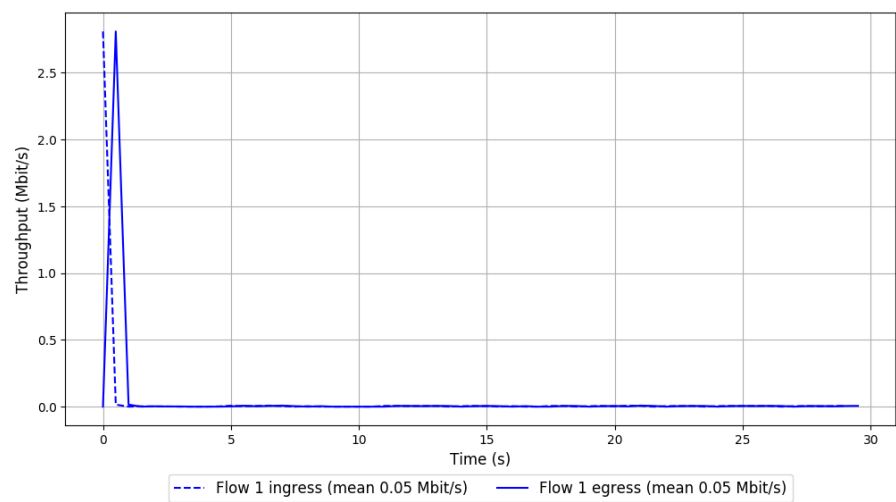
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.241 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

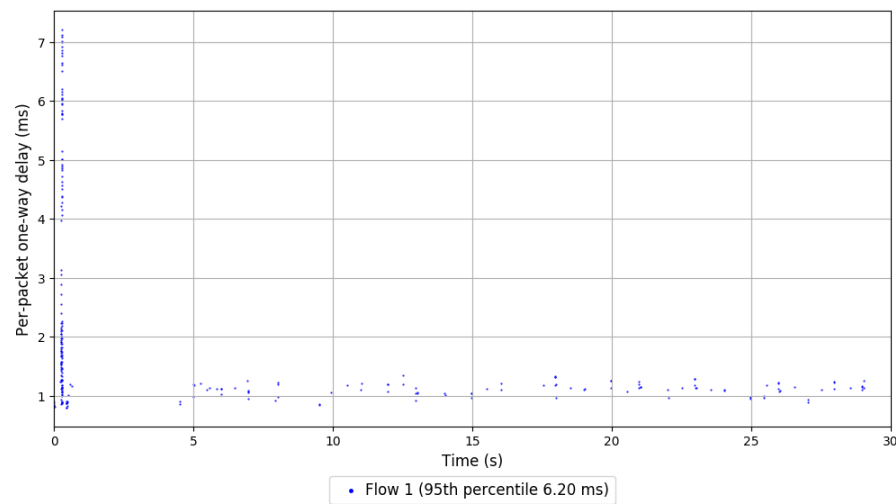
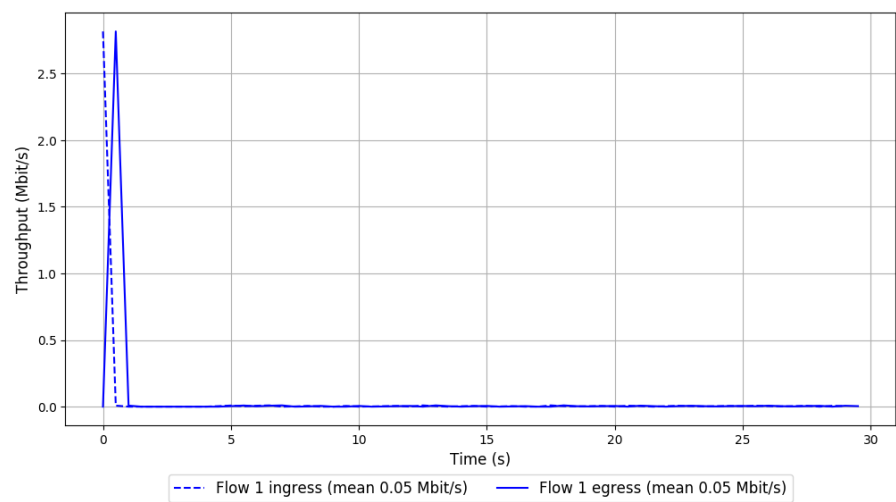


Run 3: Statistics of WebRTC media

Start at: 2019-10-02 18:39:30  
End at: 2019-10-02 18:40:00  
Local clock offset: 4.512 ms  
Remote clock offset: -0.411 ms

# Below is generated by plot.py at 2019-10-02 21:11:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 6.203 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 6.203 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-10-02 19:13:12

End at: 2019-10-02 19:13:42

Local clock offset: 4.276 ms

Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2019-10-02 21:11:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.407 ms

Loss rate: 0.00%

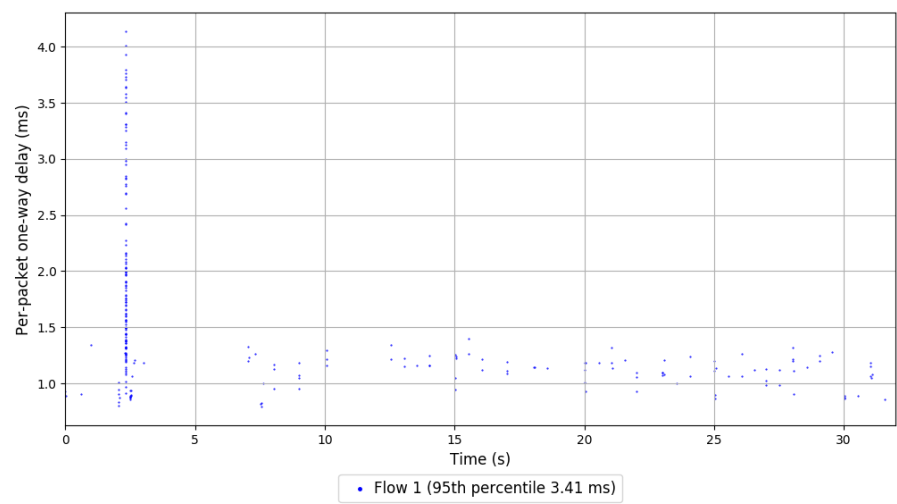
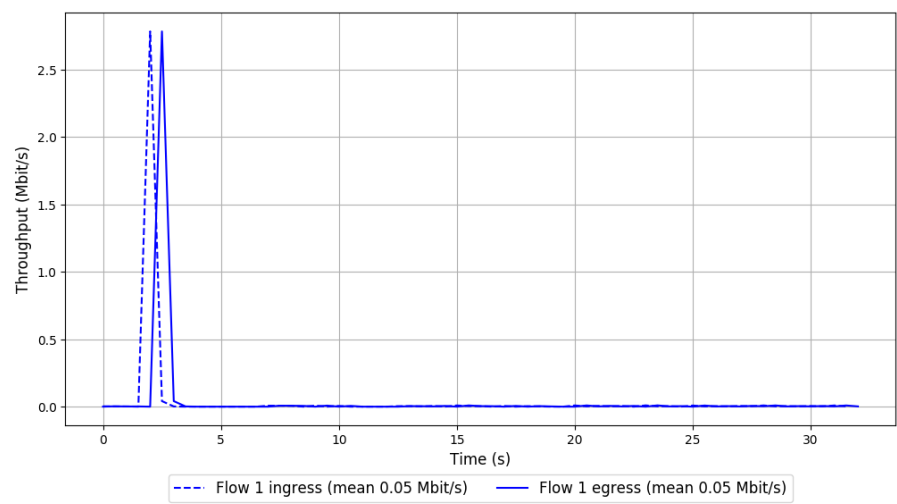
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.407 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-02 19:46:33  
End at: 2019-10-02 19:47:03  
Local clock offset: 4.568 ms  
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2019-10-02 21:11:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.29 Mbit/s  
95th percentile per-packet one-way delay: 1.186 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.29 Mbit/s  
95th percentile per-packet one-way delay: 1.186 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

