

## Pantheon Report

Generated at 2019-01-19 08:52:41 (UTC).

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

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

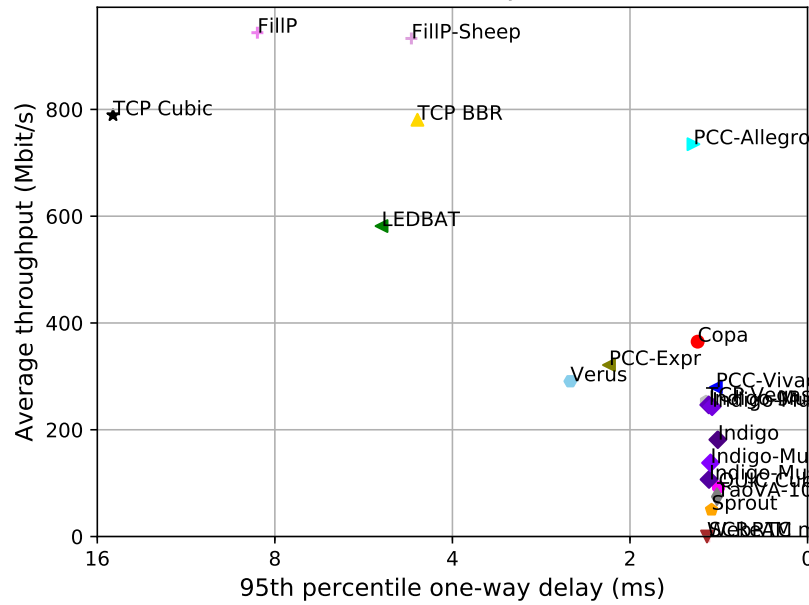
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

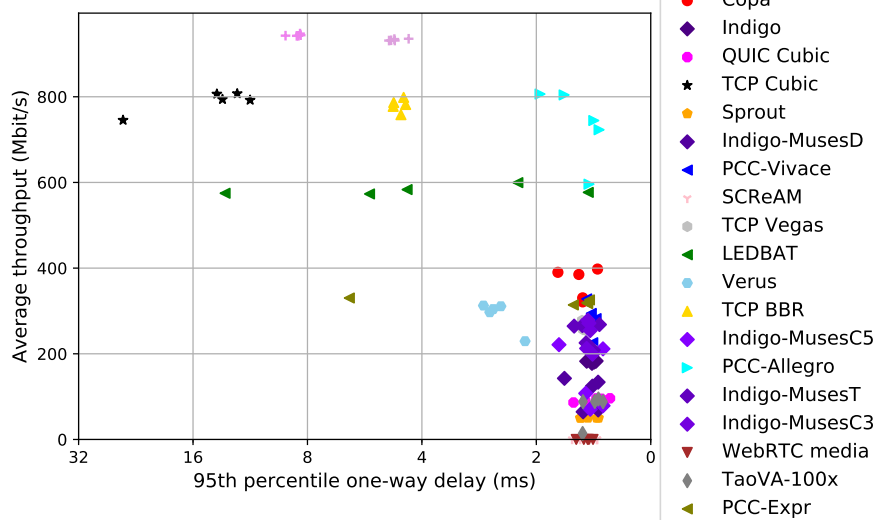
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d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

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



test from Stanford to AWS California 1, 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	780.63	4.59	0.02
Copa	5	364.99	1.24	0.01
TCP Cubic	5	789.11	15.05	0.03
FillP	5	943.69	8.56	0.01
FillP-Sheep	5	932.90	4.69	0.01
Indigo	5	181.46	1.01	0.00
Indigo-MusesC3	5	243.16	1.08	0.01
Indigo-MusesC5	5	137.95	1.09	0.00
Indigo-MusesD	5	106.89	1.11	0.01
Indigo-MusesT	5	246.58	1.11	0.01
LEDBAT	5	581.53	5.28	0.01
PCC-Allegro	5	734.83	1.29	0.01
PCC-Expr	5	321.27	2.17	0.02
QUIC Cubic	5	92.71	1.00	0.01
SCReAM	5	0.22	1.11	0.03
Sprout	5	50.23	1.08	0.01
TaoVA-100x	5	74.70	1.02	0.01
TCP Vegas	5	252.65	1.14	0.01
Verus	5	290.88	2.52	0.01
PCC-Vivace	5	279.69	1.03	0.01
WebRTC media	5	0.05	1.13	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-01-19 05:36:35

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

Local clock offset: -0.277 ms

Remote clock offset: 3.024 ms

# Below is generated by plot.py at 2019-01-19 08:02:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 798.58 Mbit/s

95th percentile per-packet one-way delay: 4.468 ms

Loss rate: 0.02%

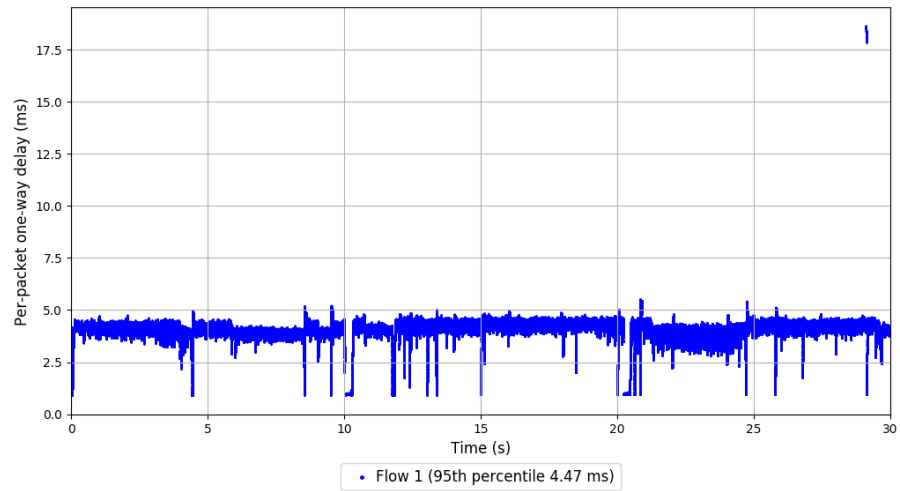
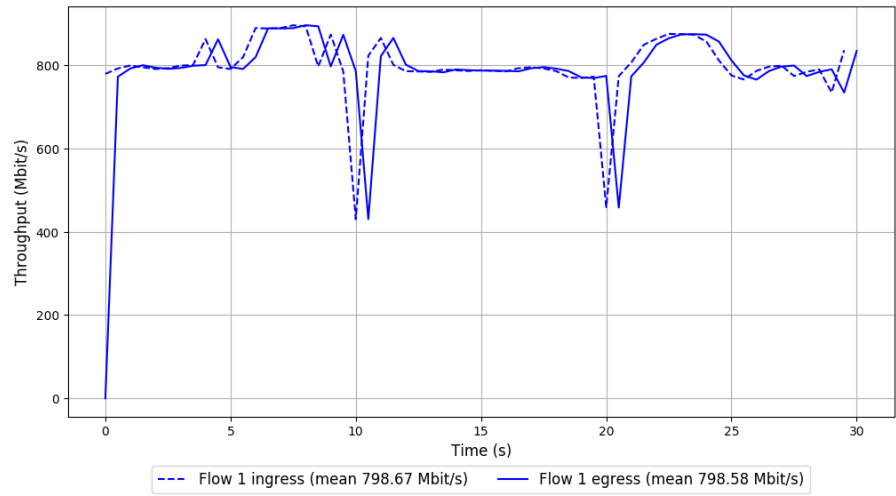
-- Flow 1:

Average throughput: 798.58 Mbit/s

95th percentile per-packet one-way delay: 4.468 ms

Loss rate: 0.02%

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



Run 2: Statistics of TCP BBR

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

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

Local clock offset: -0.149 ms

Remote clock offset: 0.179 ms

# Below is generated by plot.py at 2019-01-19 08:02:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 758.21 Mbit/s

95th percentile per-packet one-way delay: 4.541 ms

Loss rate: 0.02%

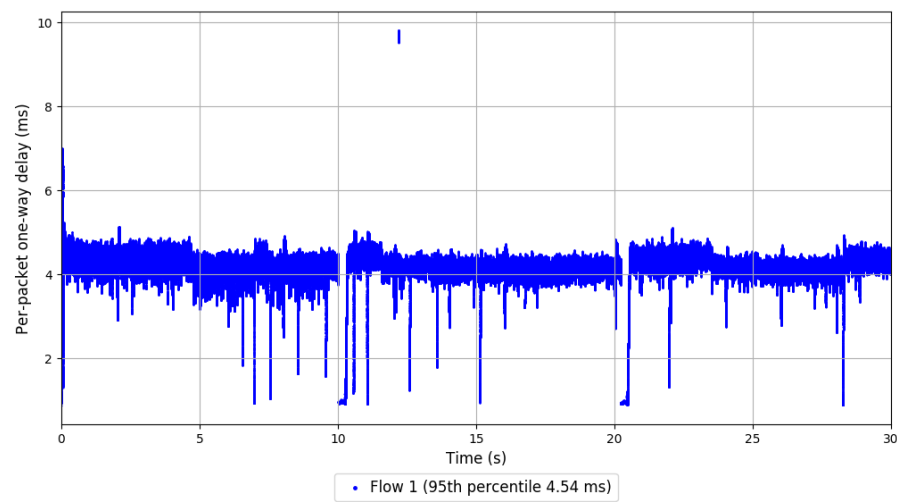
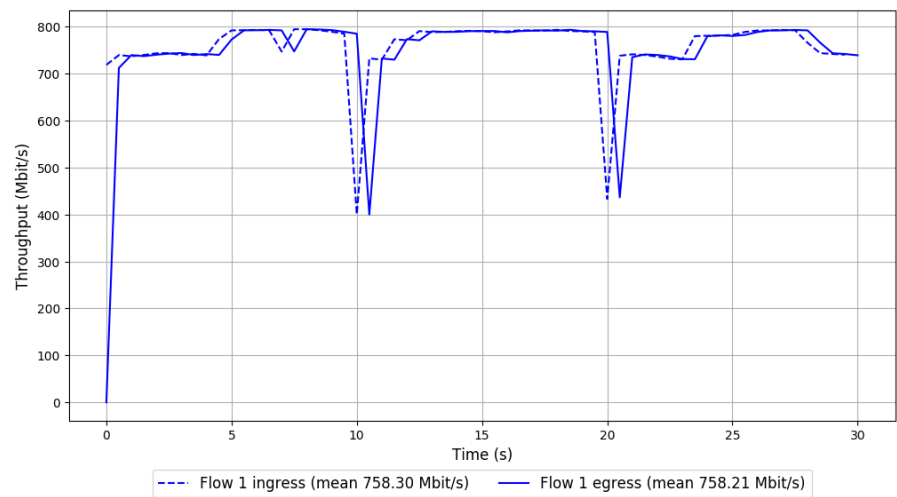
-- Flow 1:

Average throughput: 758.21 Mbit/s

95th percentile per-packet one-way delay: 4.541 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-19 06:35:55

End at: 2019-01-19 06:36:25

Local clock offset: 3.017 ms

Remote clock offset: -2.99 ms

# Below is generated by plot.py at 2019-01-19 08:02:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 782.05 Mbit/s

95th percentile per-packet one-way delay: 4.414 ms

Loss rate: 0.02%

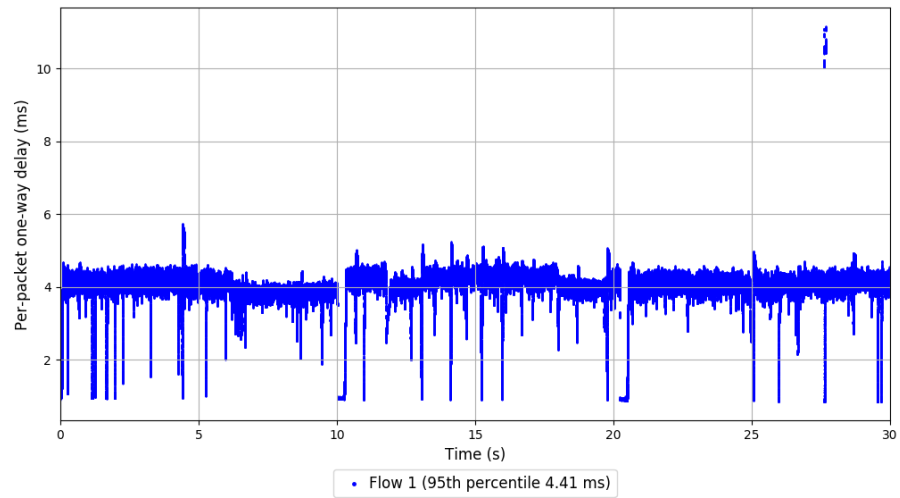
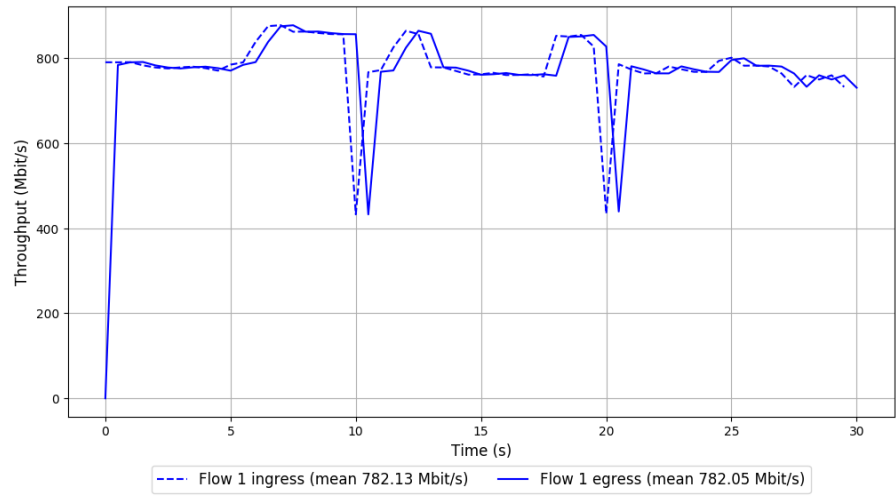
-- Flow 1:

Average throughput: 782.05 Mbit/s

95th percentile per-packet one-way delay: 4.414 ms

Loss rate: 0.02%

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



Run 4: Statistics of TCP BBR

Start at: 2019-01-19 07:05:37

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

Local clock offset: 4.573 ms

Remote clock offset: -1.629 ms

# Below is generated by plot.py at 2019-01-19 08:02:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 786.70 Mbit/s

95th percentile per-packet one-way delay: 4.745 ms

Loss rate: 0.02%

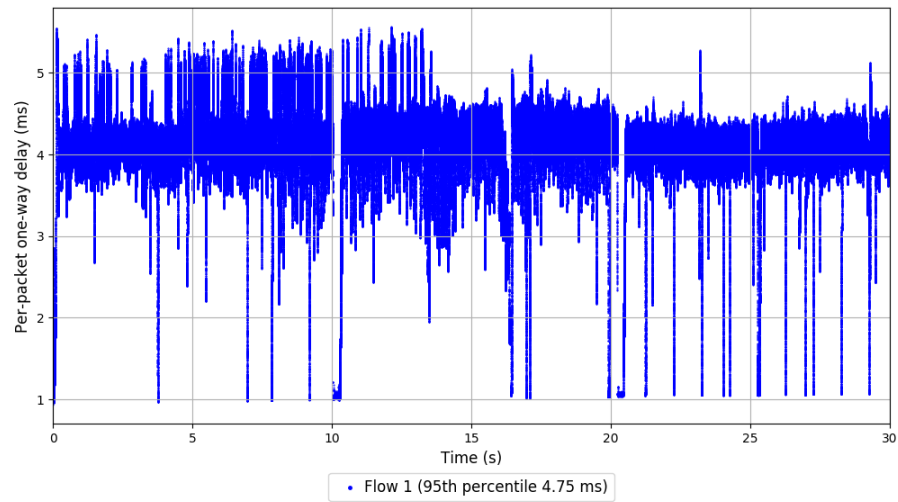
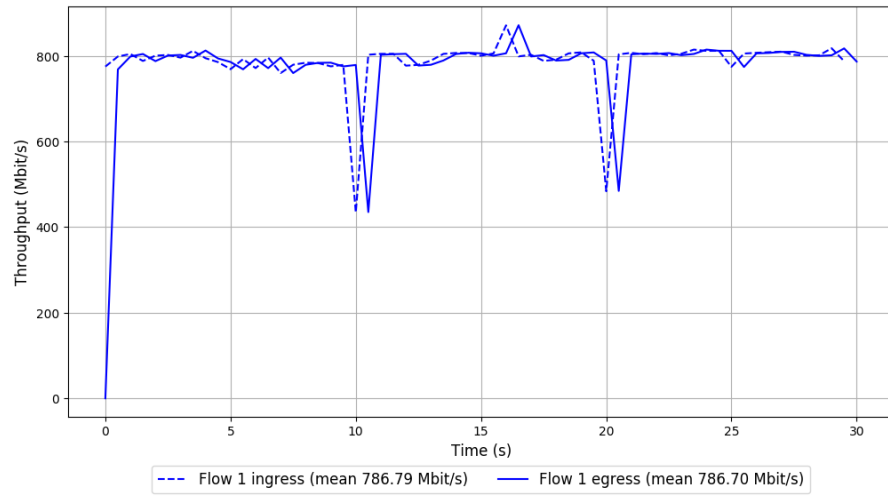
-- Flow 1:

Average throughput: 786.70 Mbit/s

95th percentile per-packet one-way delay: 4.745 ms

Loss rate: 0.02%

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





Run 5: Statistics of TCP BBR

Start at: 2019-01-19 07:35:27

End at: 2019-01-19 07:35:57

Local clock offset: -0.117 ms

Remote clock offset: 1.069 ms

# Below is generated by plot.py at 2019-01-19 08:02:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 777.62 Mbit/s

95th percentile per-packet one-way delay: 4.759 ms

Loss rate: 0.02%

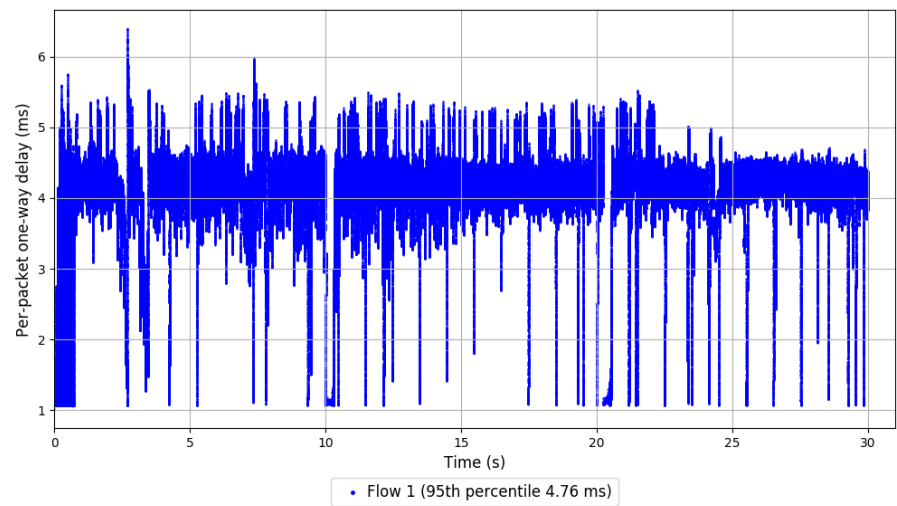
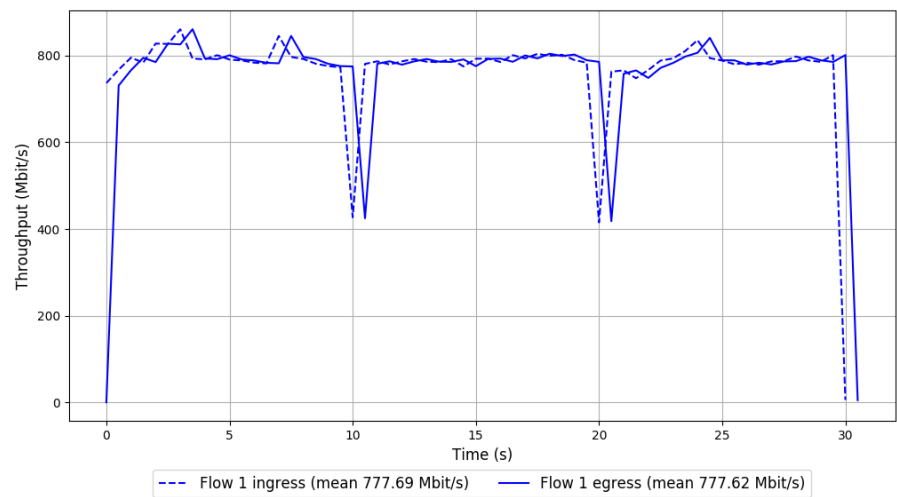
-- Flow 1:

Average throughput: 777.62 Mbit/s

95th percentile per-packet one-way delay: 4.759 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-19 05:33:38

End at: 2019-01-19 05:34:08

Local clock offset: -0.26 ms

Remote clock offset: 2.649 ms

# Below is generated by plot.py at 2019-01-19 08:02:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 390.18 Mbit/s

95th percentile per-packet one-way delay: 1.623 ms

Loss rate: 0.01%

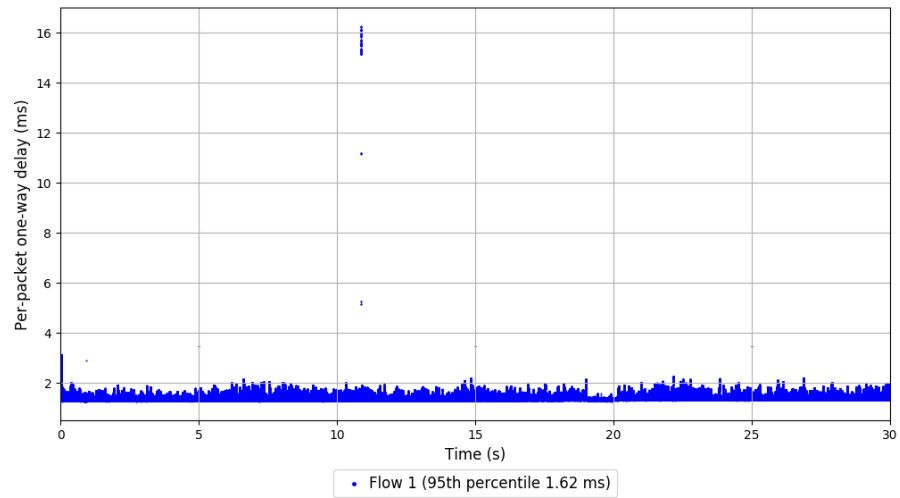
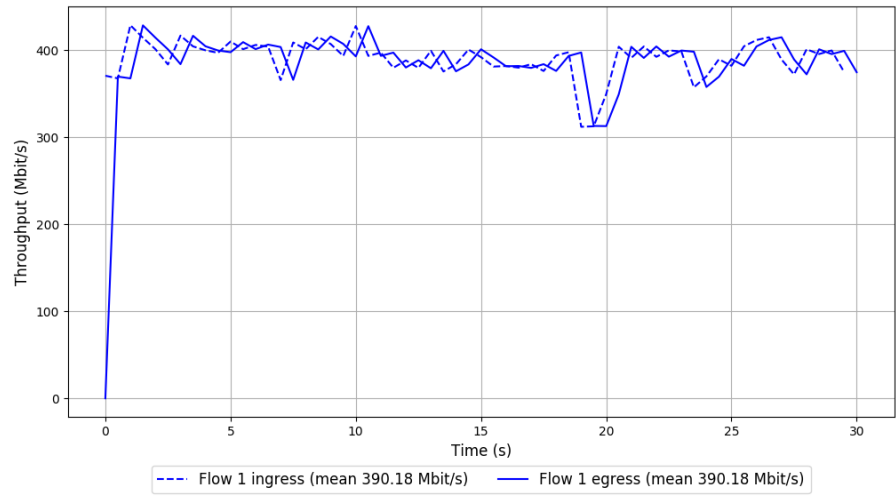
-- Flow 1:

Average throughput: 390.18 Mbit/s

95th percentile per-packet one-way delay: 1.623 ms

Loss rate: 0.01%

### Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-01-19 06:03:26

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

Local clock offset: -0.158 ms

Remote clock offset: 0.452 ms

# Below is generated by plot.py at 2019-01-19 08:02:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.59 Mbit/s

95th percentile per-packet one-way delay: 1.190 ms

Loss rate: 0.01%

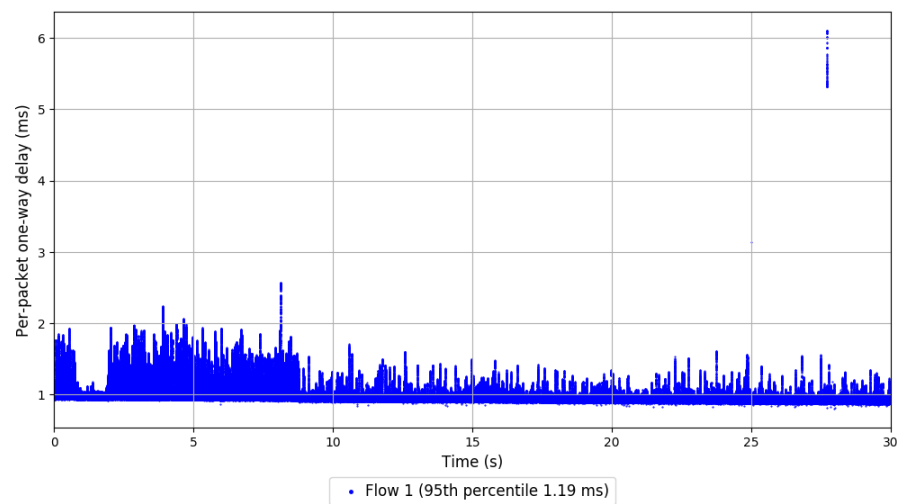
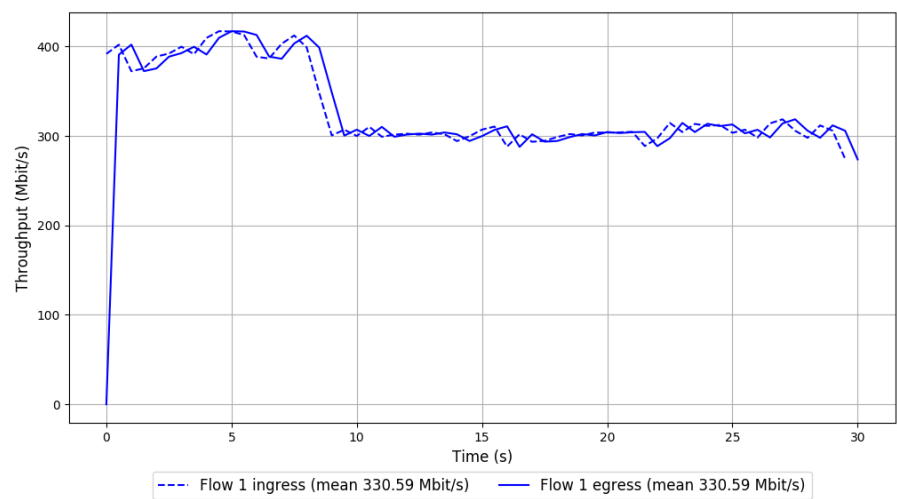
-- Flow 1:

Average throughput: 330.59 Mbit/s

95th percentile per-packet one-way delay: 1.190 ms

Loss rate: 0.01%

Run 2: Report of Copa — Data Link

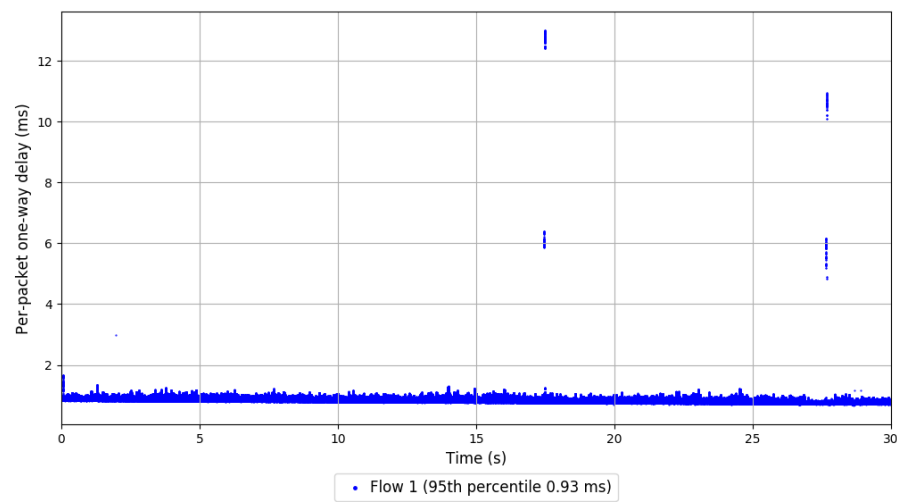
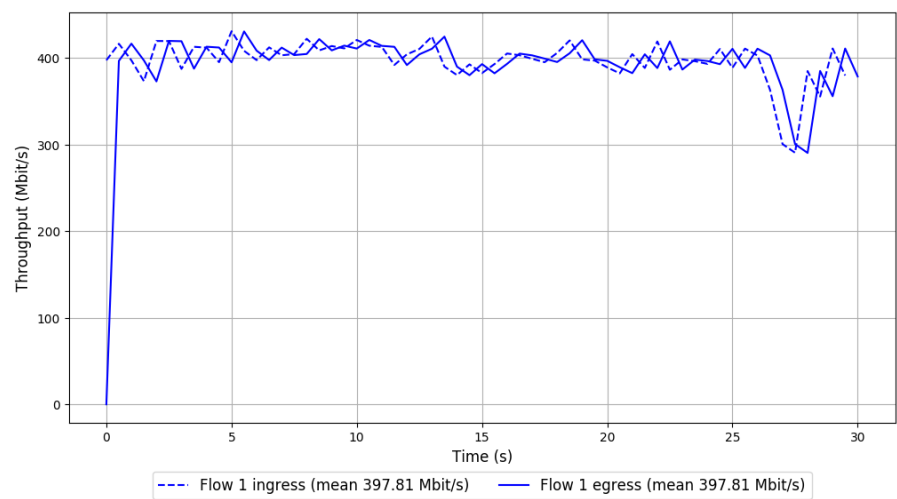


Run 3: Statistics of Copa

Start at: 2019-01-19 06:33:00  
End at: 2019-01-19 06:33:30  
Local clock offset: 2.744 ms  
Remote clock offset: -2.504 ms

# Below is generated by plot.py at 2019-01-19 08:02:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 397.81 Mbit/s  
95th percentile per-packet one-way delay: 0.930 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 397.81 Mbit/s  
95th percentile per-packet one-way delay: 0.930 ms  
Loss rate: 0.01%

Run 3: Report of Copa — Data Link



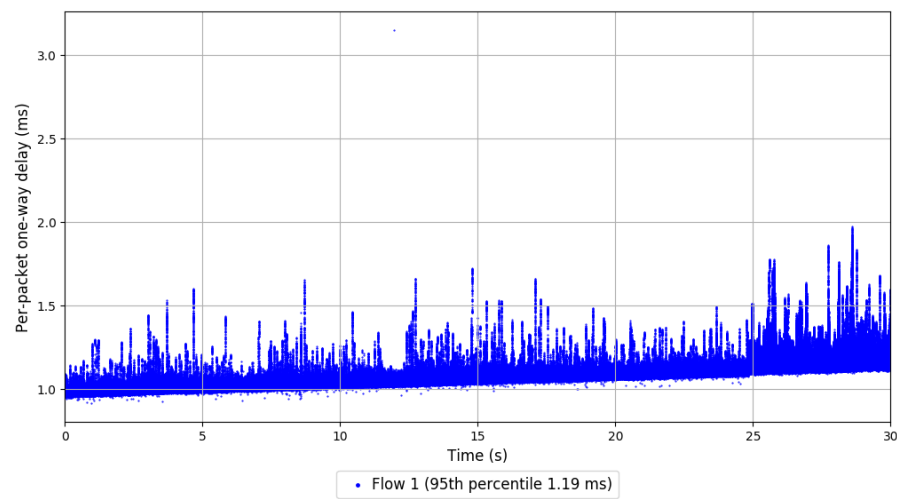
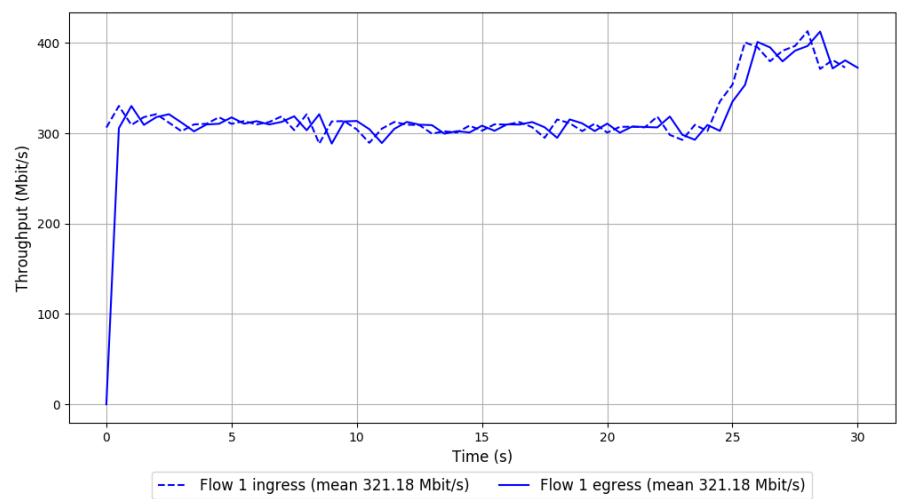


Run 4: Statistics of Copa

Start at: 2019-01-19 07:02:45  
End at: 2019-01-19 07:03:15  
Local clock offset: 4.469 ms  
Remote clock offset: -2.529 ms

# Below is generated by plot.py at 2019-01-19 08:07:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 321.18 Mbit/s  
95th percentile per-packet one-way delay: 1.190 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 321.18 Mbit/s  
95th percentile per-packet one-way delay: 1.190 ms  
Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-19 07:32:29

End at: 2019-01-19 07:32:59

Local clock offset: 0.394 ms

Remote clock offset: 1.529 ms

# Below is generated by plot.py at 2019-01-19 08:10:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 385.19 Mbit/s

95th percentile per-packet one-way delay: 1.257 ms

Loss rate: 0.01%

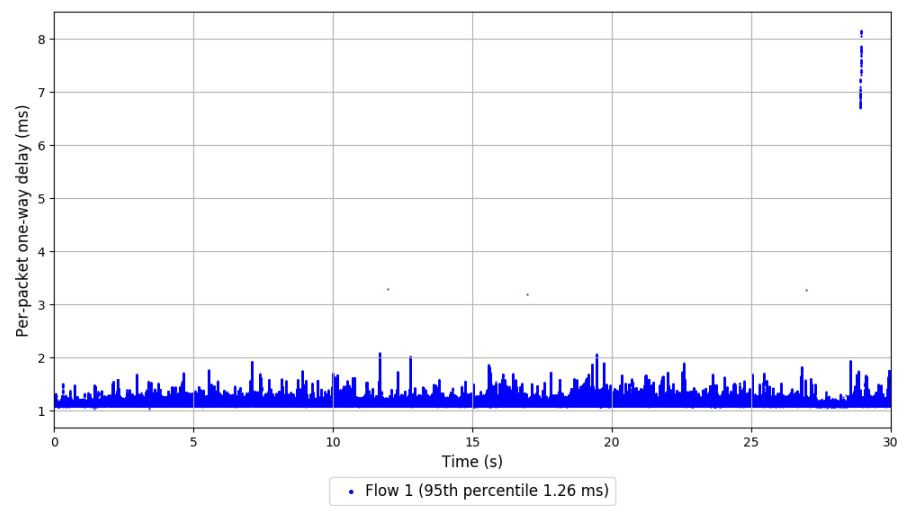
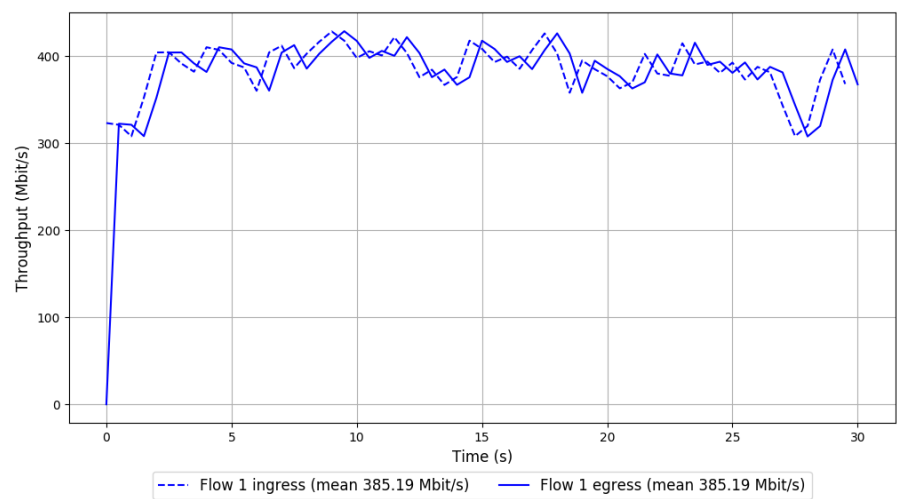
-- Flow 1:

Average throughput: 385.19 Mbit/s

95th percentile per-packet one-way delay: 1.257 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-19 05:21:20

End at: 2019-01-19 05:21:50

Local clock offset: -0.378 ms

Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2019-01-19 08:10:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 807.36 Mbit/s

95th percentile per-packet one-way delay: 12.242 ms

Loss rate: 0.04%

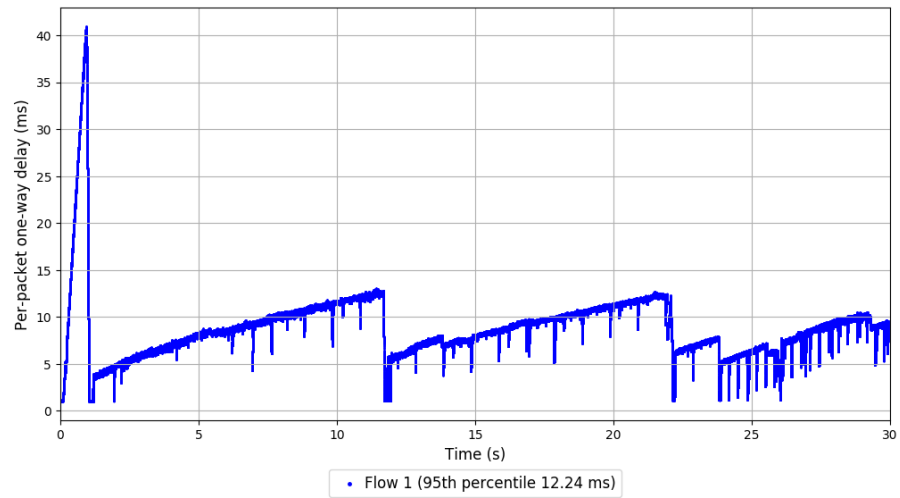
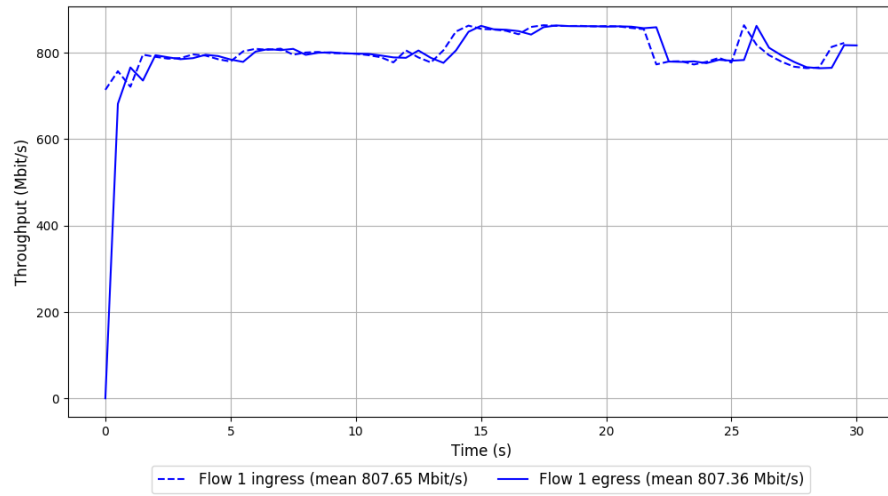
-- Flow 1:

Average throughput: 807.36 Mbit/s

95th percentile per-packet one-way delay: 12.242 ms

Loss rate: 0.04%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-01-19 05:51:04

End at: 2019-01-19 05:51:34

Local clock offset: -0.302 ms

Remote clock offset: 3.415 ms

# Below is generated by plot.py at 2019-01-19 08:10:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 792.28 Mbit/s

95th percentile per-packet one-way delay: 11.322 ms

Loss rate: 0.03%

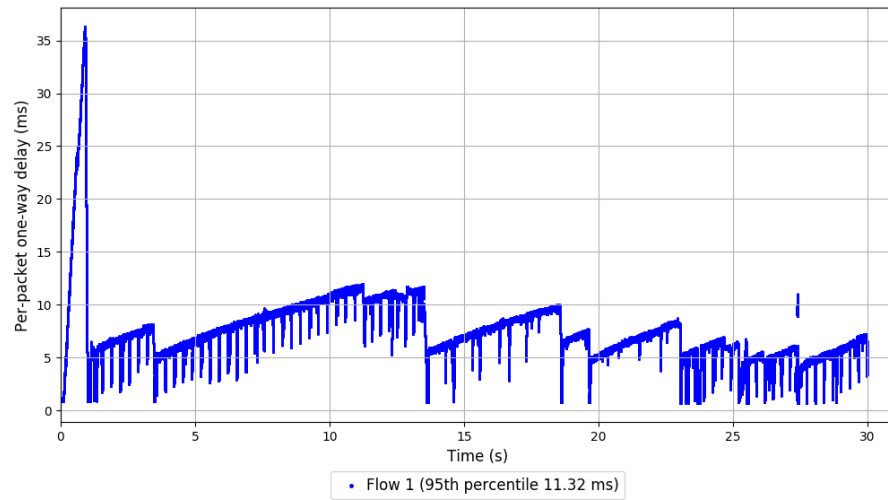
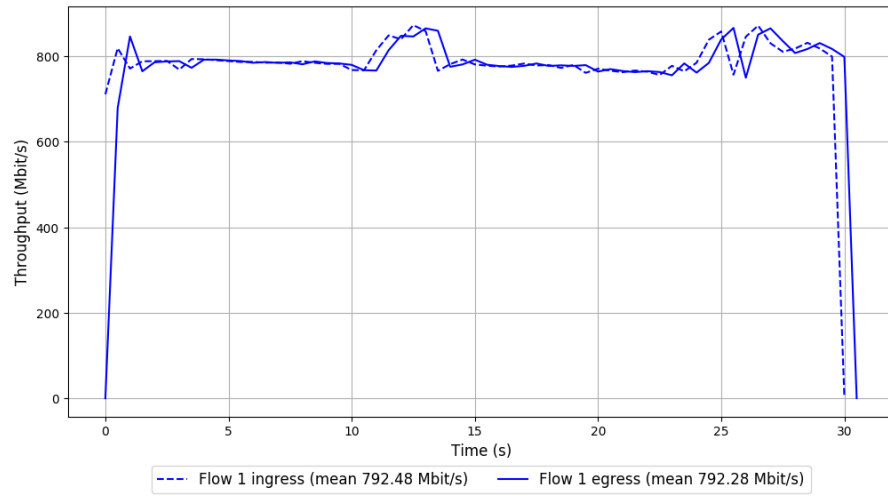
-- Flow 1:

Average throughput: 792.28 Mbit/s

95th percentile per-packet one-way delay: 11.322 ms

Loss rate: 0.03%

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



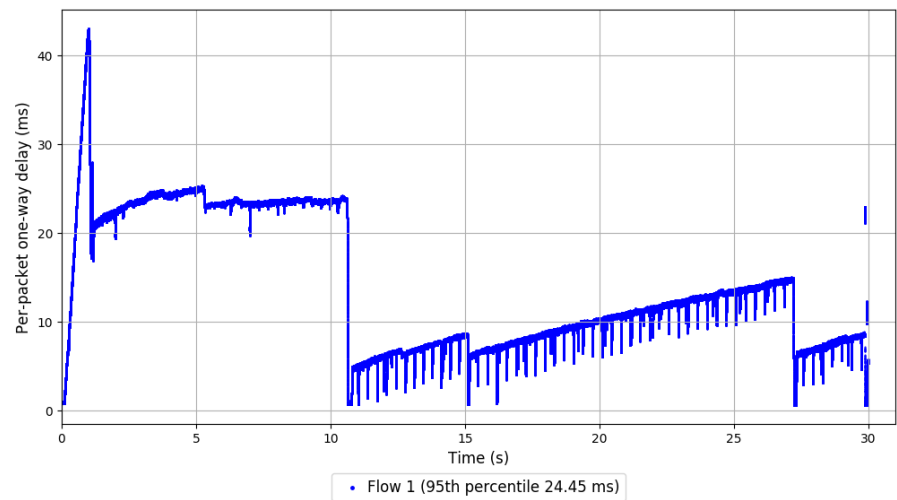
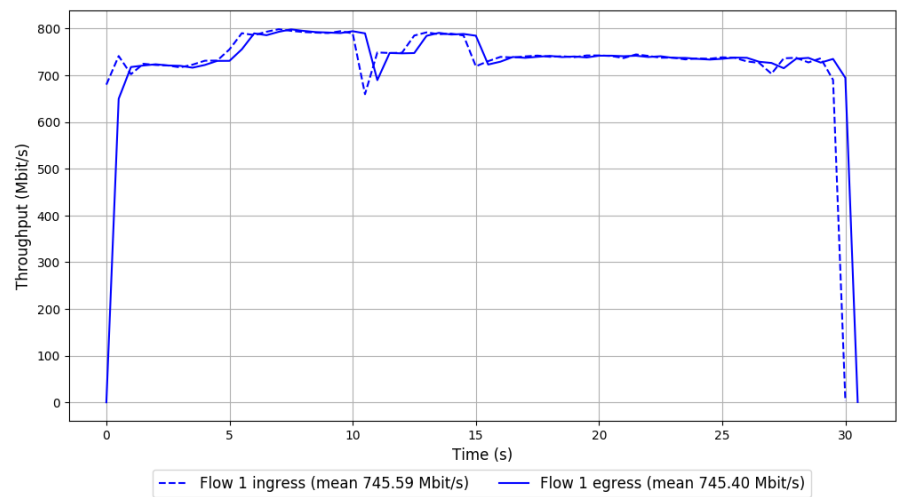


Run 3: Statistics of TCP Cubic

Start at: 2019-01-19 06:20:43  
End at: 2019-01-19 06:21:13  
Local clock offset: 0.237 ms  
Remote clock offset: -0.555 ms

# Below is generated by plot.py at 2019-01-19 08:10:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 745.40 Mbit/s  
95th percentile per-packet one-way delay: 24.445 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 745.40 Mbit/s  
95th percentile per-packet one-way delay: 24.445 ms  
Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link

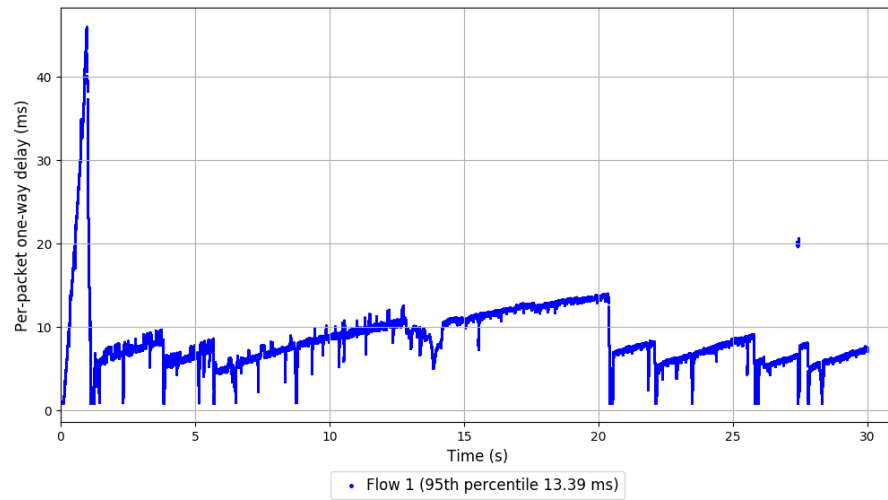
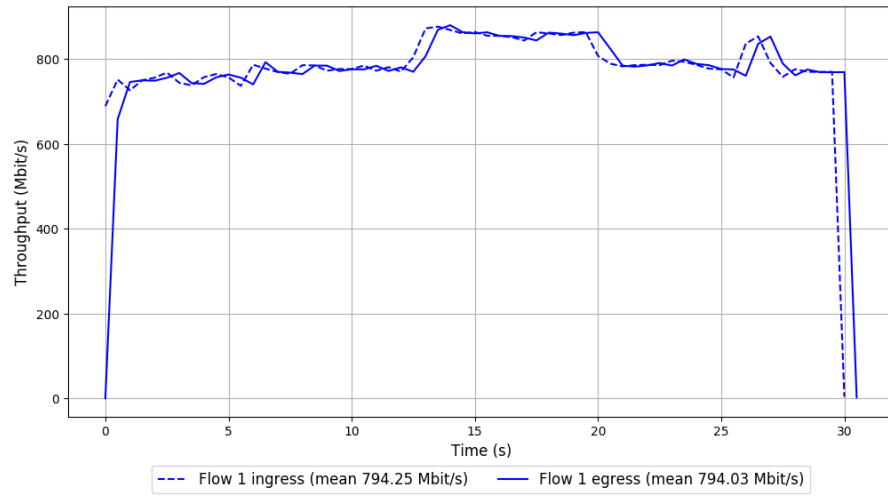


Run 4: Statistics of TCP Cubic

Start at: 2019-01-19 06:50:23  
End at: 2019-01-19 06:50:53  
Local clock offset: 3.936 ms  
Remote clock offset: -4.171 ms

# Below is generated by plot.py at 2019-01-19 08:10:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 794.03 Mbit/s  
95th percentile per-packet one-way delay: 13.386 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 794.03 Mbit/s  
95th percentile per-packet one-way delay: 13.386 ms  
Loss rate: 0.03%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-01-19 07:20:03

End at: 2019-01-19 07:20:33

Local clock offset: 4.835 ms

Remote clock offset: 0.668 ms

# Below is generated by plot.py at 2019-01-19 08:11:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 806.49 Mbit/s

95th percentile per-packet one-way delay: 13.849 ms

Loss rate: 0.03%

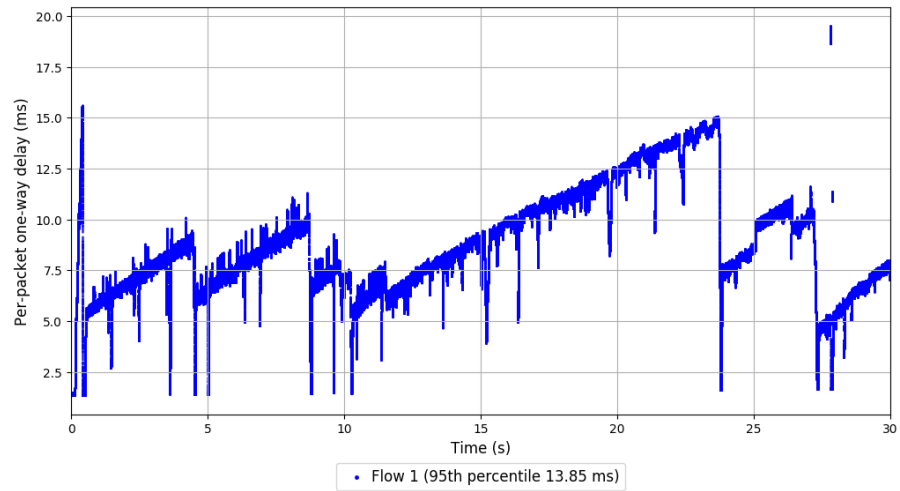
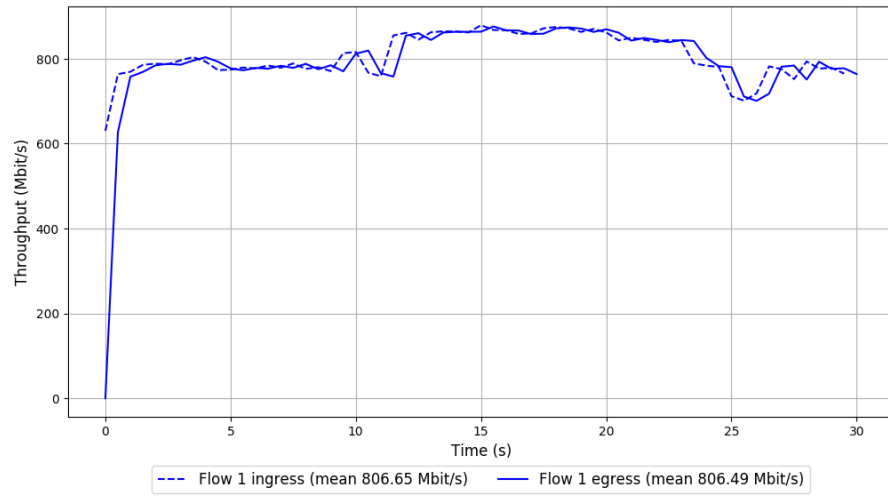
-- Flow 1:

Average throughput: 806.49 Mbit/s

95th percentile per-packet one-way delay: 13.849 ms

Loss rate: 0.03%

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



Run 1: Statistics of FillP

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

End at: 2019-01-19 05:45:48

Local clock offset: -0.305 ms

Remote clock offset: 3.59 ms

# Below is generated by plot.py at 2019-01-19 08:14:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 942.33 Mbit/s

95th percentile per-packet one-way delay: 8.448 ms

Loss rate: 0.01%

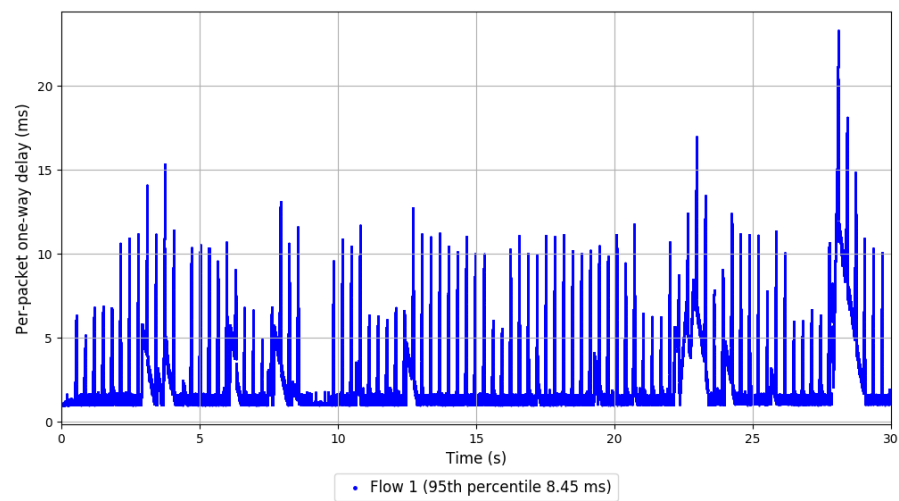
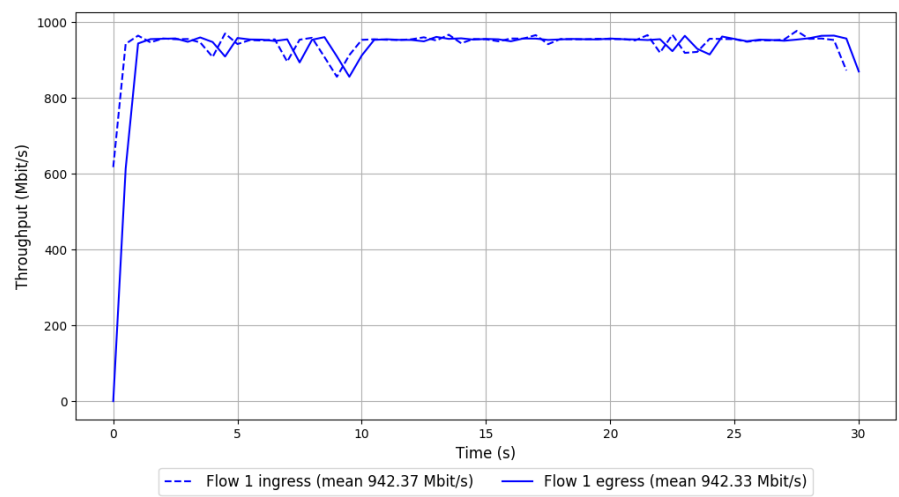
-- Flow 1:

Average throughput: 942.33 Mbit/s

95th percentile per-packet one-way delay: 8.448 ms

Loss rate: 0.01%

Run 1: Report of FillP — Data Link



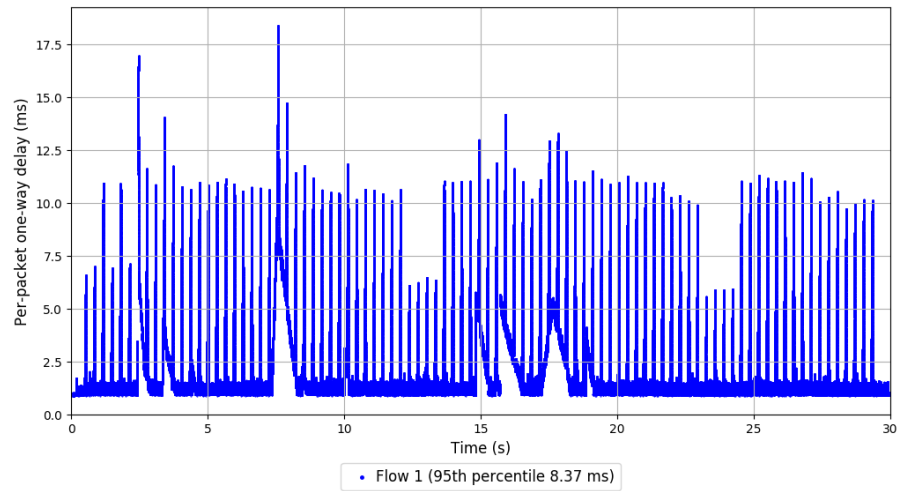
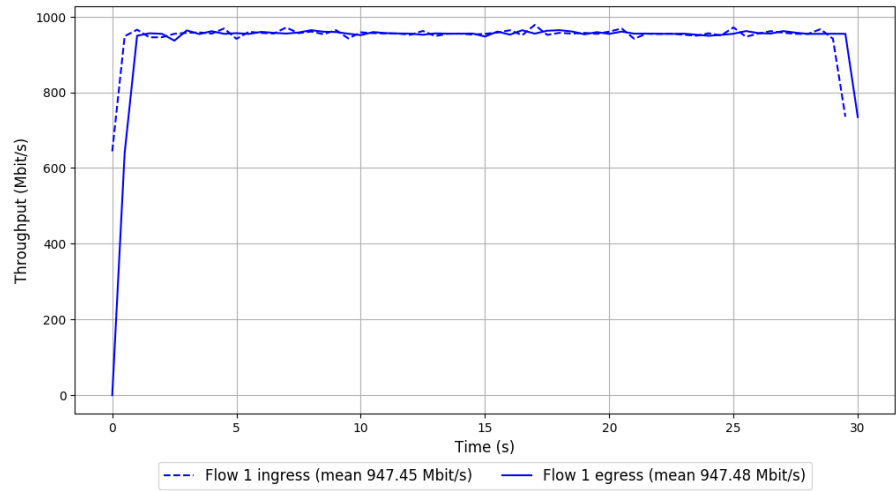


Run 2: Statistics of FillP

Start at: 2019-01-19 06:14:57  
End at: 2019-01-19 06:15:27  
Local clock offset: -0.181 ms  
Remote clock offset: -0.371 ms

# Below is generated by plot.py at 2019-01-19 08:21:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 947.48 Mbit/s  
95th percentile per-packet one-way delay: 8.368 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 947.48 Mbit/s  
95th percentile per-packet one-way delay: 8.368 ms  
Loss rate: 0.01%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-19 06:44:37

End at: 2019-01-19 06:45:07

Local clock offset: 3.635 ms

Remote clock offset: -3.72 ms

# Below is generated by plot.py at 2019-01-19 08:22:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 942.25 Mbit/s

95th percentile per-packet one-way delay: 8.536 ms

Loss rate: 0.01%

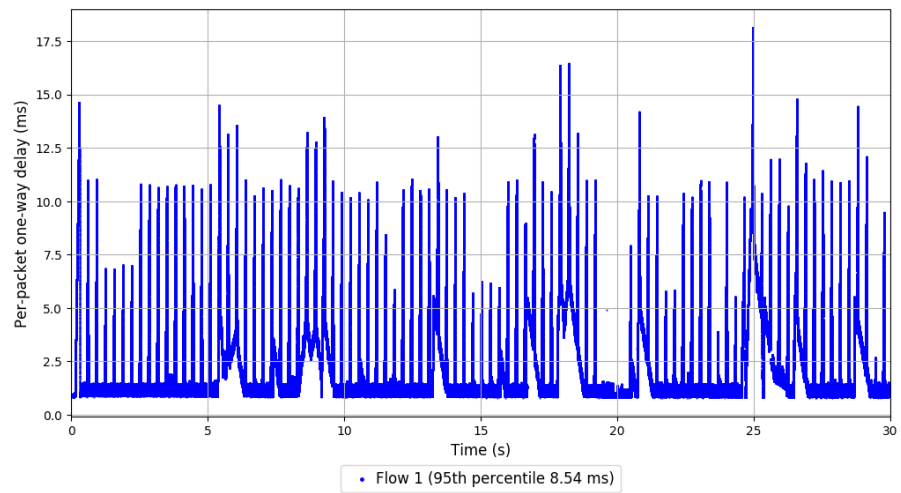
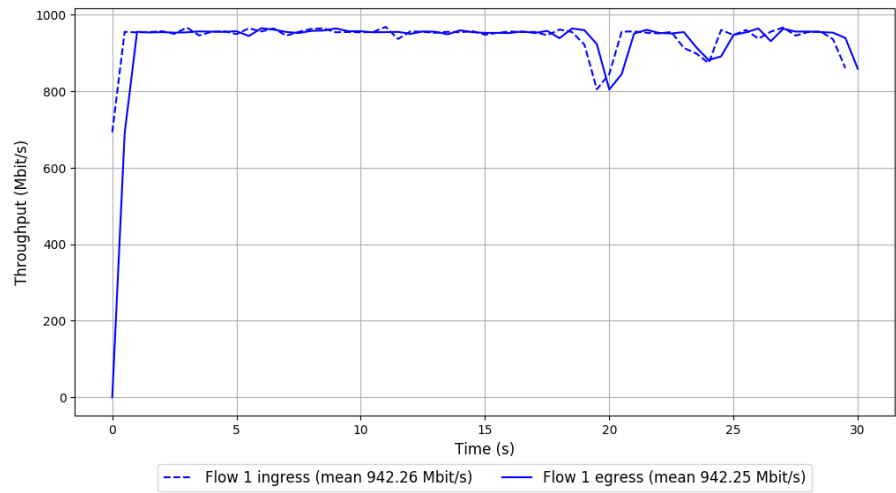
-- Flow 1:

Average throughput: 942.25 Mbit/s

95th percentile per-packet one-way delay: 8.536 ms

Loss rate: 0.01%

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



Run 4: Statistics of FillP

Start at: 2019-01-19 07:14:22

End at: 2019-01-19 07:14:52

Local clock offset: 4.95 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-01-19 08:22:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 943.75 Mbit/s

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

Loss rate: 0.01%

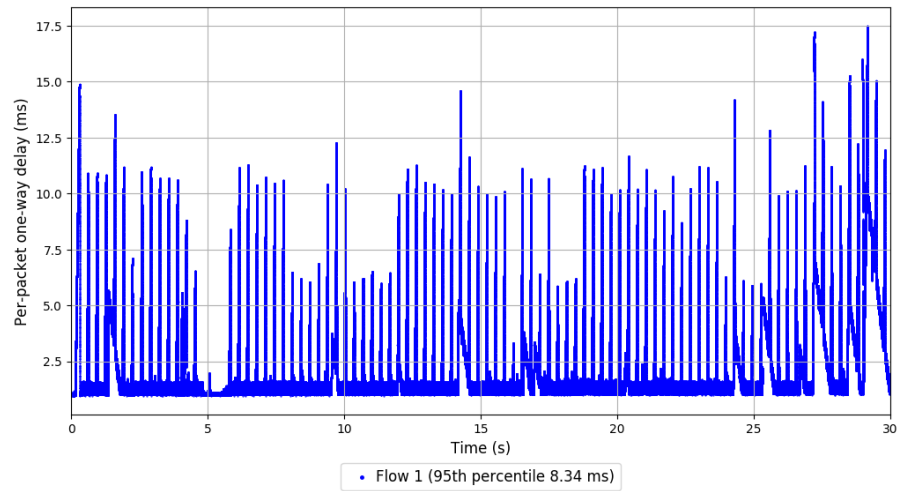
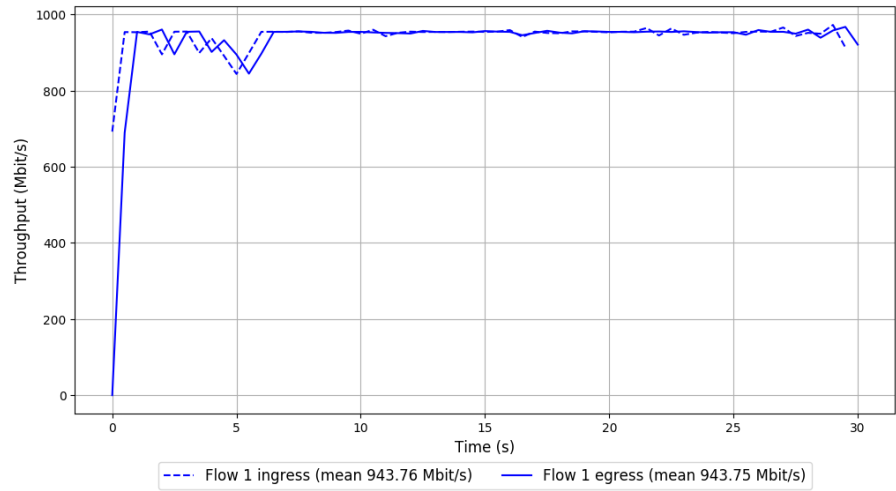
-- Flow 1:

Average throughput: 943.75 Mbit/s

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

Loss rate: 0.01%

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



Run 5: Statistics of FillP

Start at: 2019-01-19 07:44:08

End at: 2019-01-19 07:44:38

Local clock offset: -1.125 ms

Remote clock offset: 0.421 ms

# Below is generated by plot.py at 2019-01-19 08:22:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 942.65 Mbit/s

95th percentile per-packet one-way delay: 9.137 ms

Loss rate: 0.01%

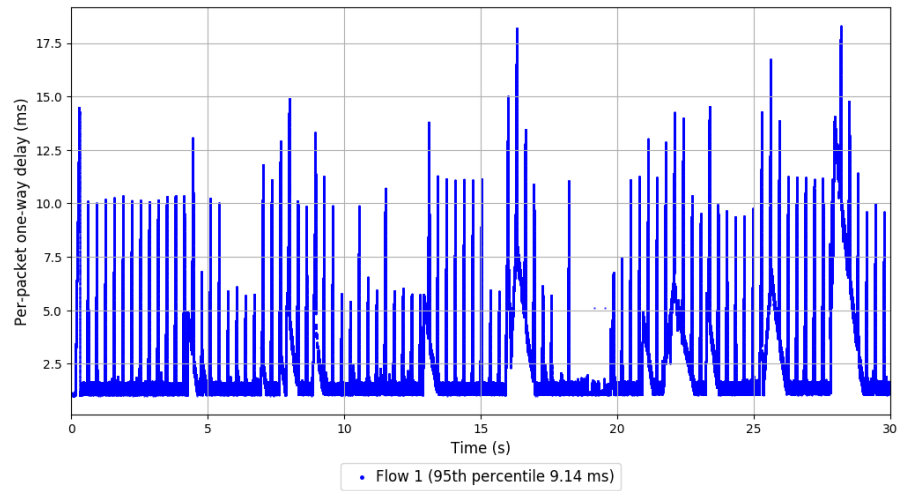
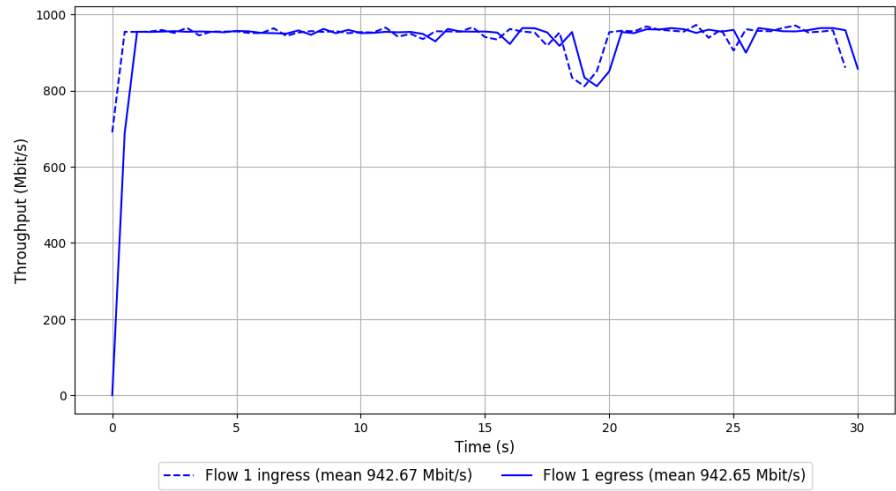
-- Flow 1:

Average throughput: 942.65 Mbit/s

95th percentile per-packet one-way delay: 9.137 ms

Loss rate: 0.01%

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





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-19 05:46:55

End at: 2019-01-19 05:47:25

Local clock offset: -0.32 ms

Remote clock offset: 3.797 ms

# Below is generated by plot.py at 2019-01-19 08:22:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 931.86 Mbit/s

95th percentile per-packet one-way delay: 4.819 ms

Loss rate: 0.01%

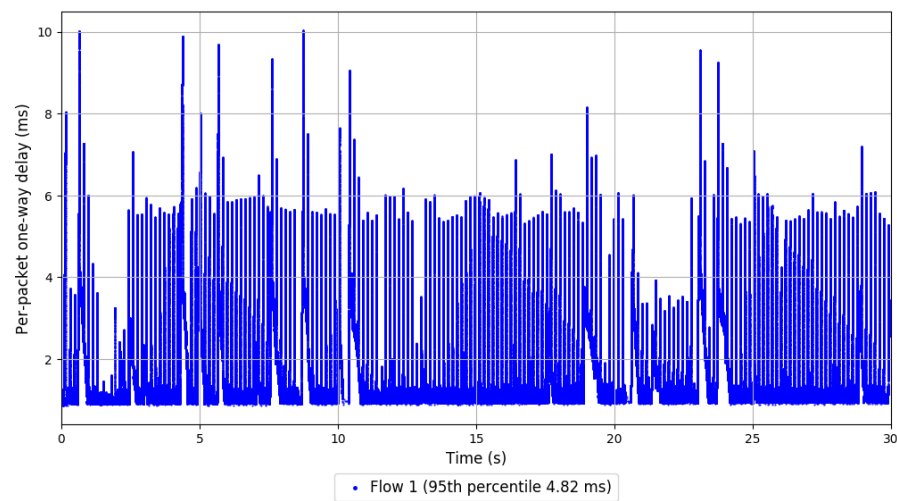
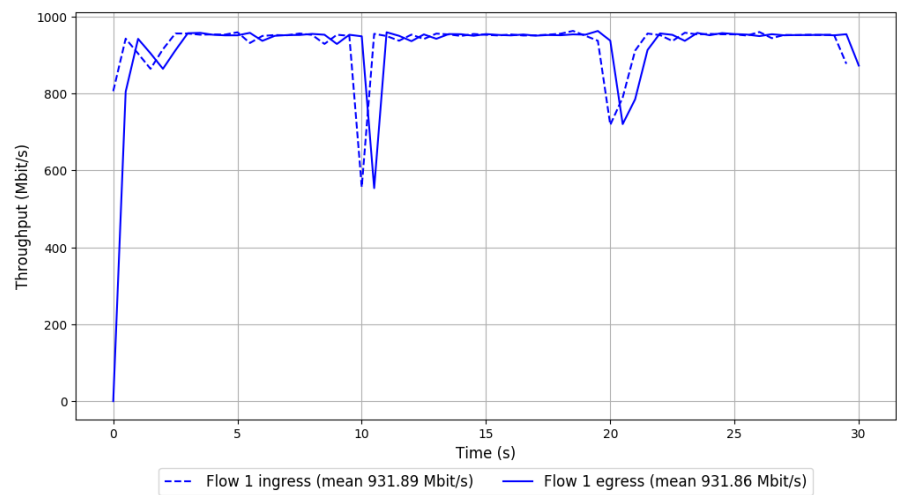
-- Flow 1:

Average throughput: 931.86 Mbit/s

95th percentile per-packet one-way delay: 4.819 ms

Loss rate: 0.01%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-19 06:16:35

End at: 2019-01-19 06:17:05

Local clock offset: -0.171 ms

Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2019-01-19 08:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 931.23 Mbit/s

95th percentile per-packet one-way delay: 4.882 ms

Loss rate: 0.01%

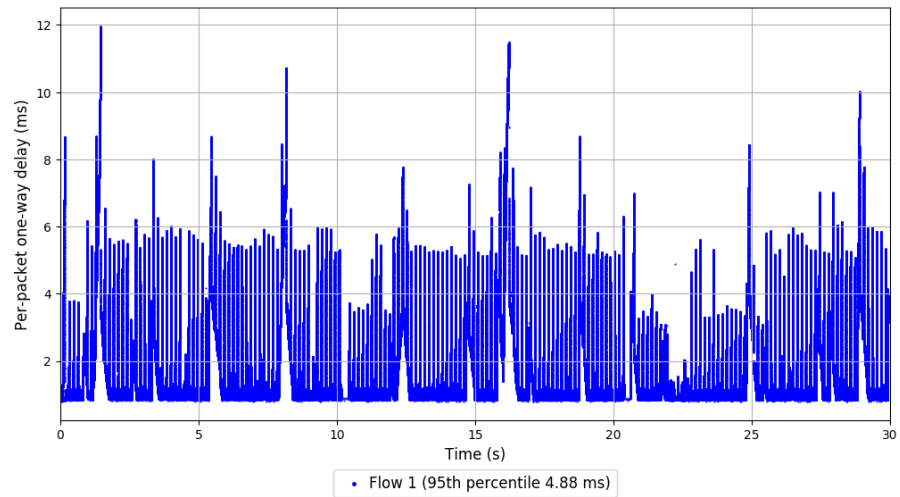
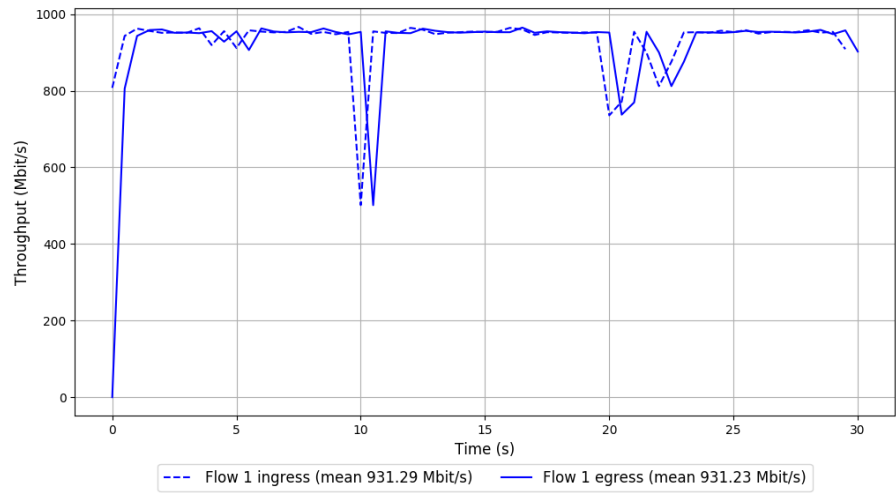
-- Flow 1:

Average throughput: 931.23 Mbit/s

95th percentile per-packet one-way delay: 4.882 ms

Loss rate: 0.01%

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

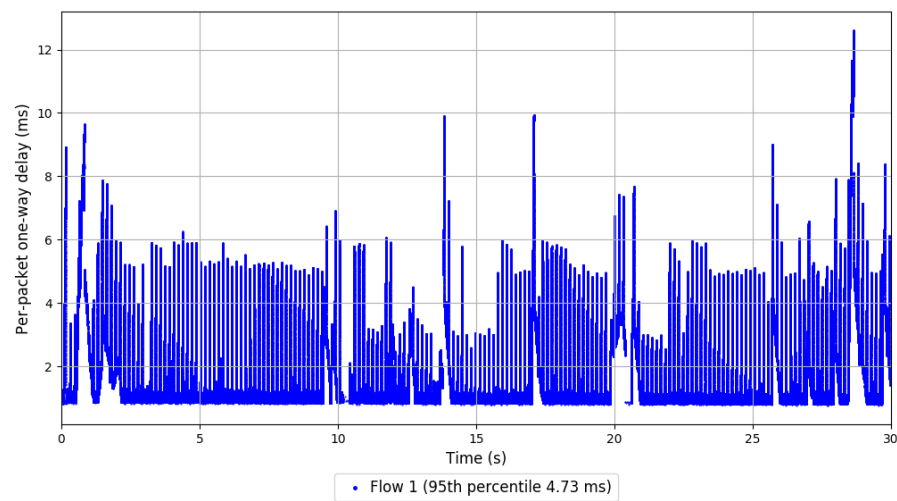
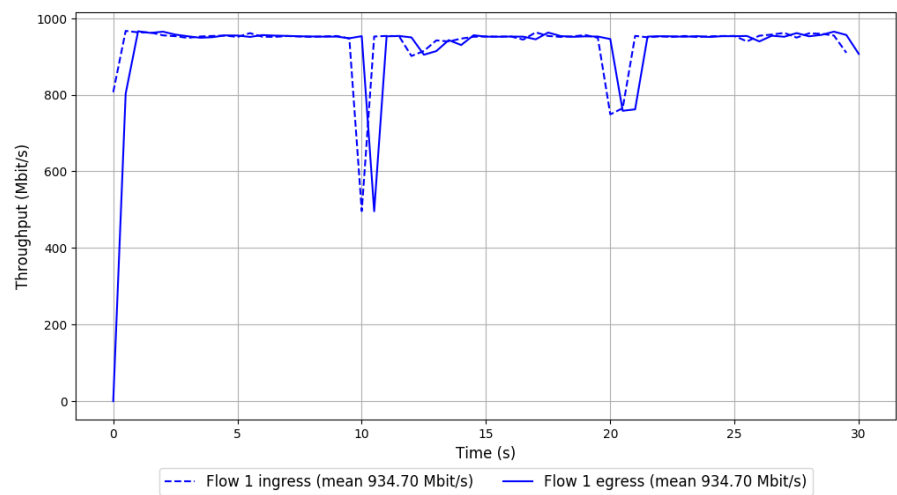


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-19 06:46:15  
End at: 2019-01-19 06:46:45  
Local clock offset: 3.724 ms  
Remote clock offset: -3.816 ms

# Below is generated by plot.py at 2019-01-19 08:23:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 934.70 Mbit/s  
95th percentile per-packet one-way delay: 4.726 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 934.70 Mbit/s  
95th percentile per-packet one-way delay: 4.726 ms  
Loss rate: 0.01%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-19 07:15:59

End at: 2019-01-19 07:16:29

Local clock offset: 5.002 ms

Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2019-01-19 08:28:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 935.42 Mbit/s

95th percentile per-packet one-way delay: 4.334 ms

Loss rate: 0.01%

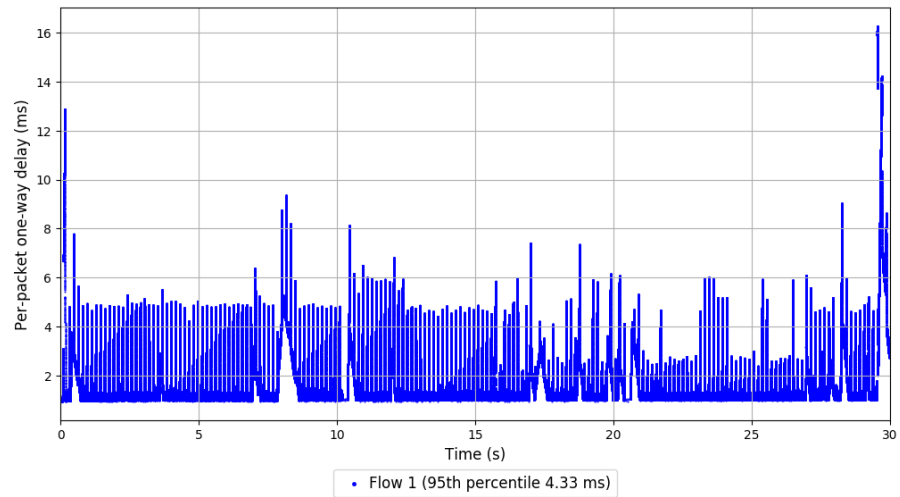
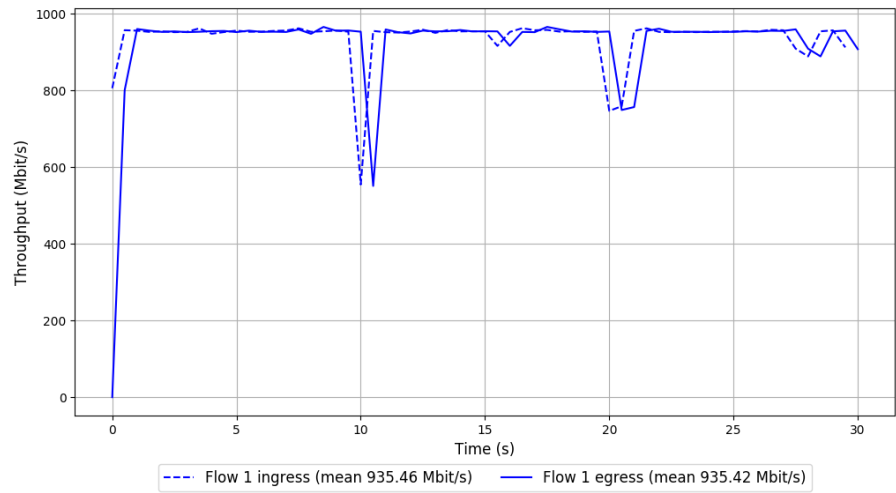
-- Flow 1:

Average throughput: 935.42 Mbit/s

95th percentile per-packet one-way delay: 4.334 ms

Loss rate: 0.01%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-19 07:45:45

End at: 2019-01-19 07:46:15

Local clock offset: -1.272 ms

Remote clock offset: 0.507 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 931.29 Mbit/s

95th percentile per-packet one-way delay: 4.713 ms

Loss rate: 0.01%

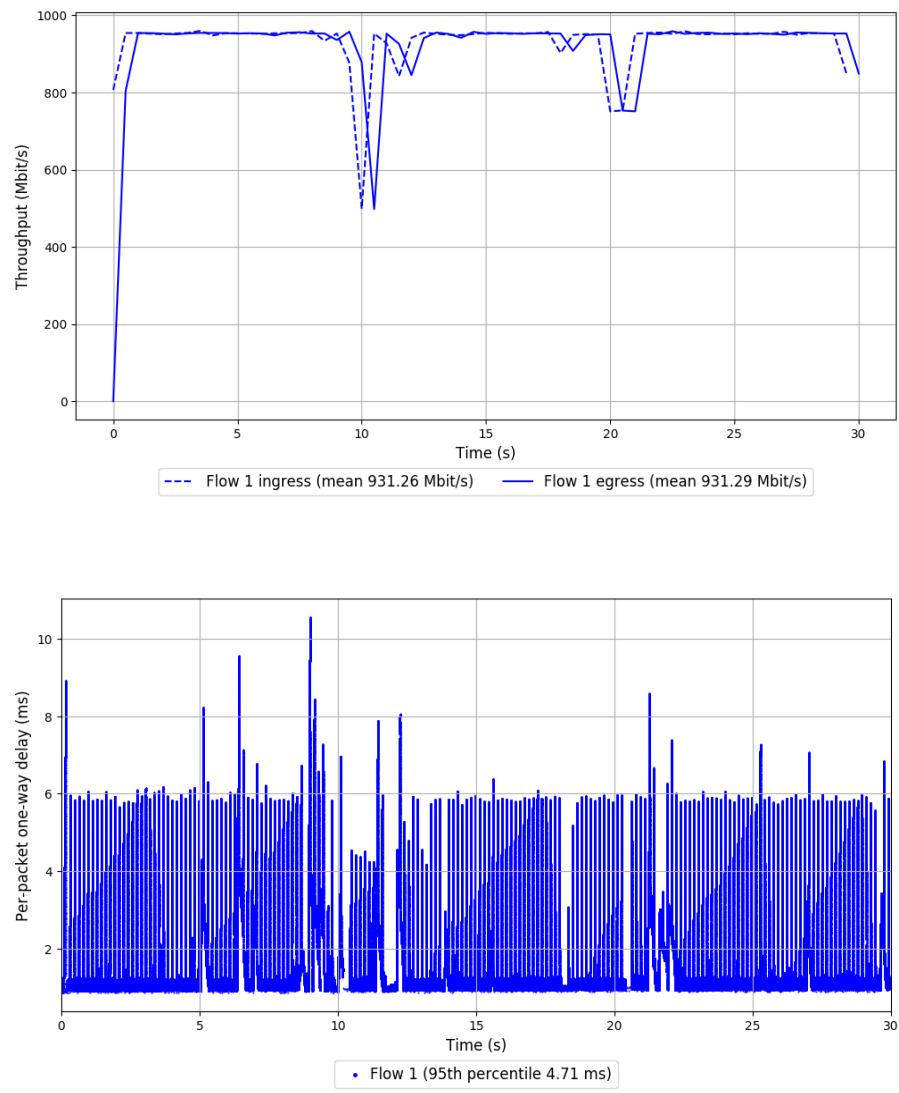
-- Flow 1:

Average throughput: 931.29 Mbit/s

95th percentile per-packet one-way delay: 4.713 ms

Loss rate: 0.01%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-01-19 05:39:45

End at: 2019-01-19 05:40:15

Local clock offset: -0.281 ms

Remote clock offset: 3.334 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.20 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.01%

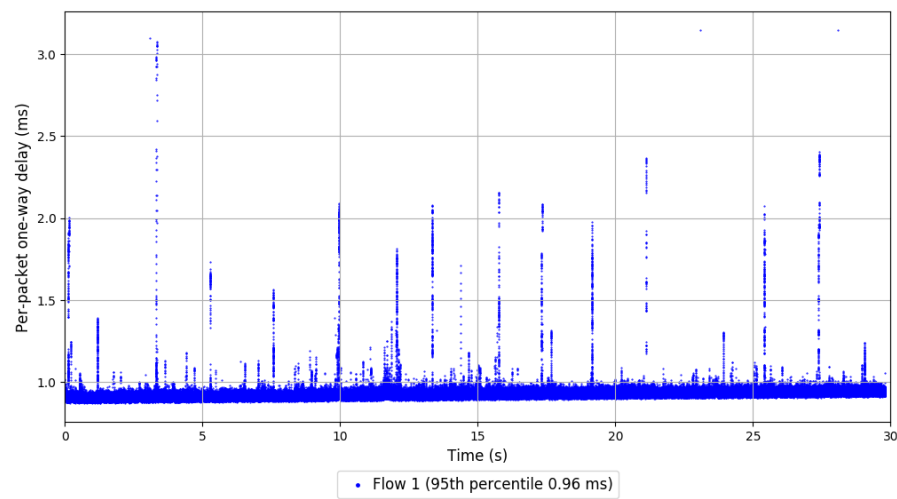
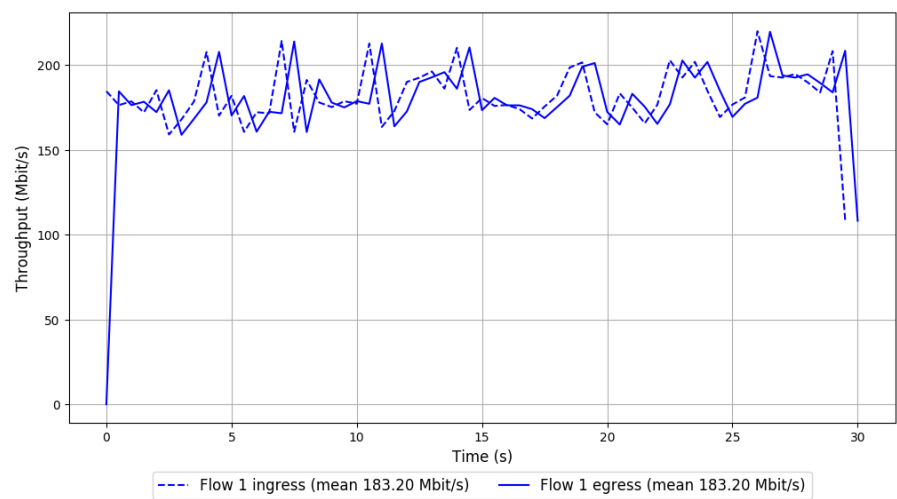
-- Flow 1:

Average throughput: 183.20 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.01%

Run 1: Report of Indigo — Data Link

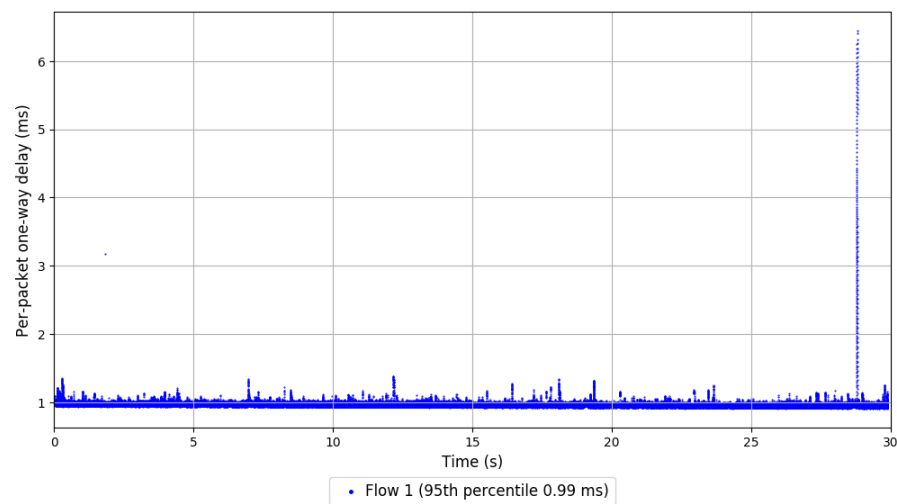
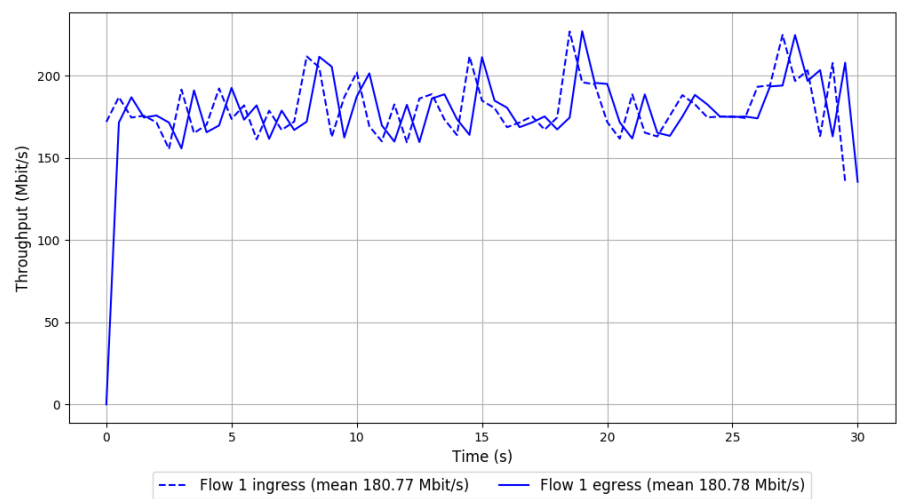


Run 2: Statistics of Indigo

Start at: 2019-01-19 06:09:30  
End at: 2019-01-19 06:10:00  
Local clock offset: -0.136 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-01-19 08:33:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 180.78 Mbit/s  
95th percentile per-packet one-way delay: 0.989 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 180.78 Mbit/s  
95th percentile per-packet one-way delay: 0.989 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

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

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

Local clock offset: 3.279 ms

Remote clock offset: -3.301 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.95 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 0.01%

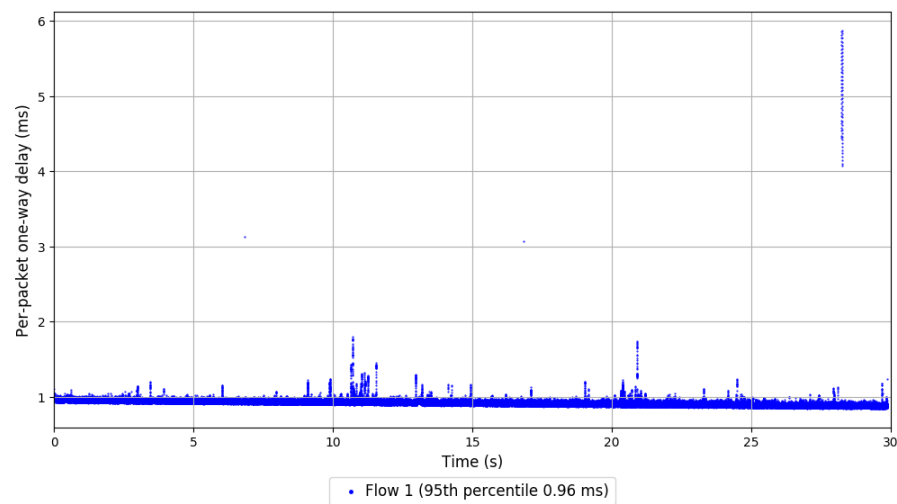
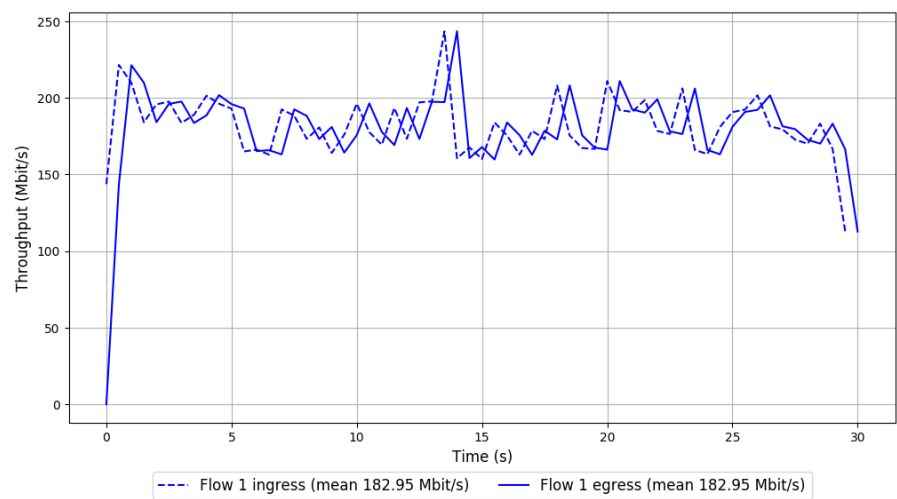
-- Flow 1:

Average throughput: 182.95 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



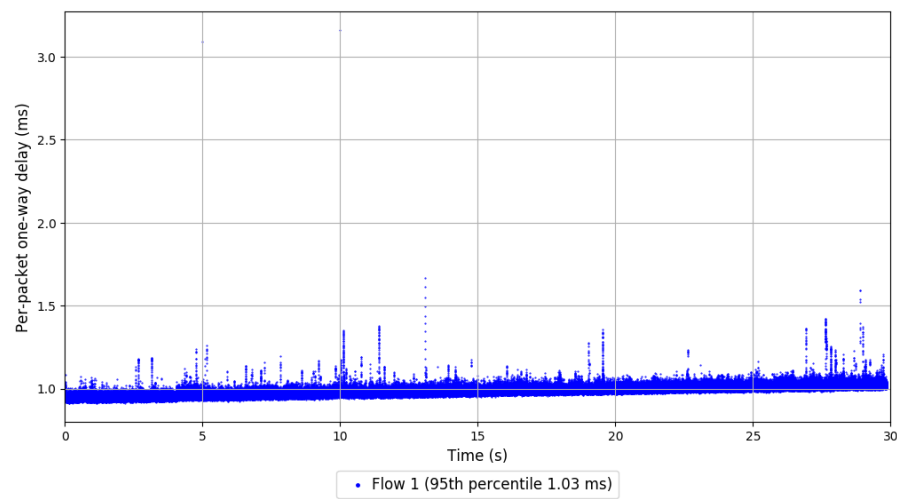
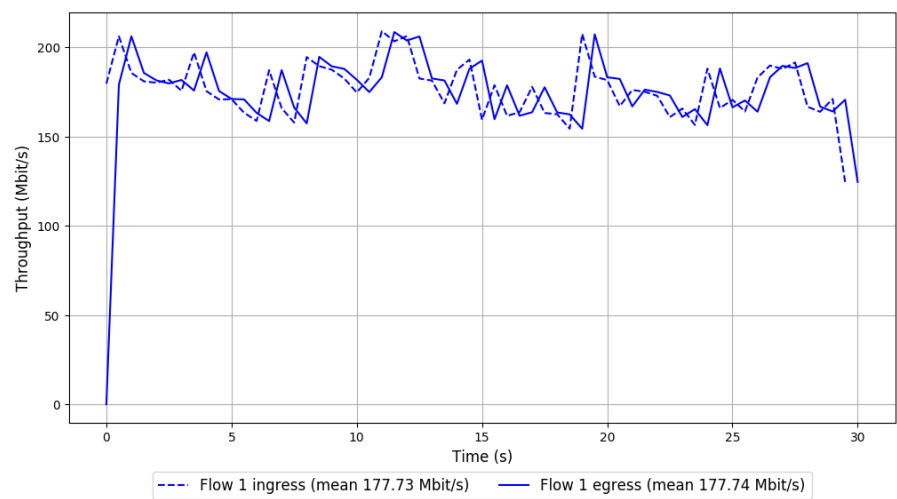


Run 4: Statistics of Indigo

Start at: 2019-01-19 07:08:47  
End at: 2019-01-19 07:09:17  
Local clock offset: 4.732 ms  
Remote clock offset: -0.793 ms

# Below is generated by plot.py at 2019-01-19 08:33:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 177.74 Mbit/s  
95th percentile per-packet one-way delay: 1.028 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 177.74 Mbit/s  
95th percentile per-packet one-way delay: 1.028 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-19 07:38:36

End at: 2019-01-19 07:39:06

Local clock offset: -0.555 ms

Remote clock offset: 0.73 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.62 Mbit/s

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

Loss rate: 0.00%

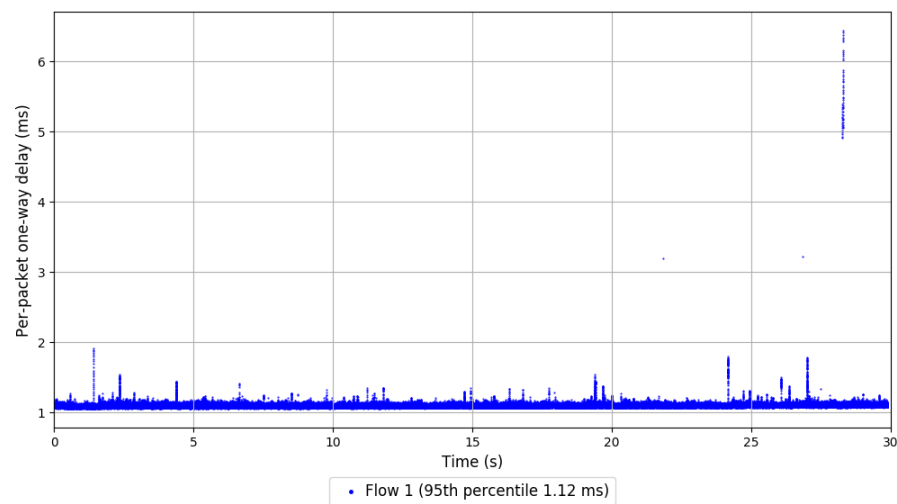
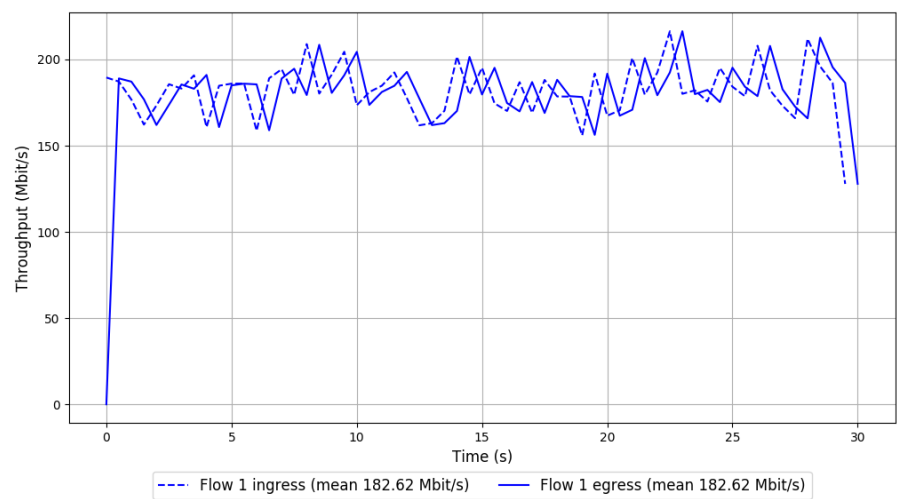
-- Flow 1:

Average throughput: 182.62 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-19 05:35:14

End at: 2019-01-19 05:35:44

Local clock offset: -0.258 ms

Remote clock offset: 2.881 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.34 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.00%

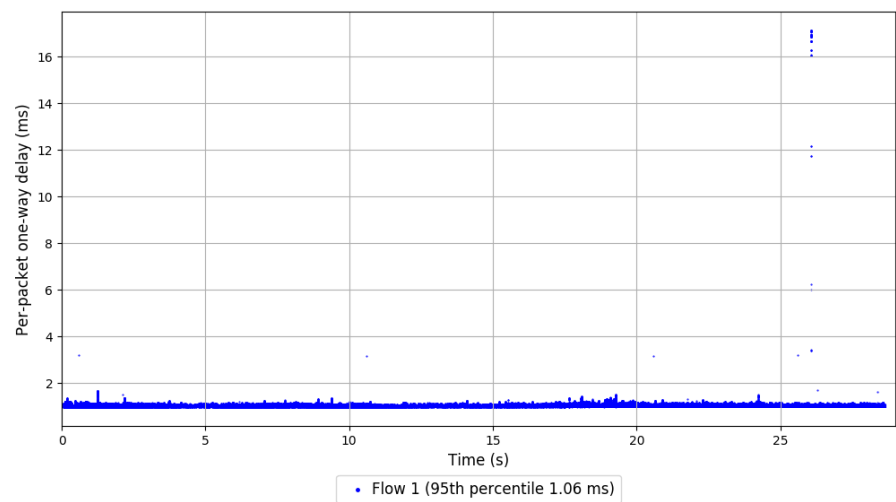
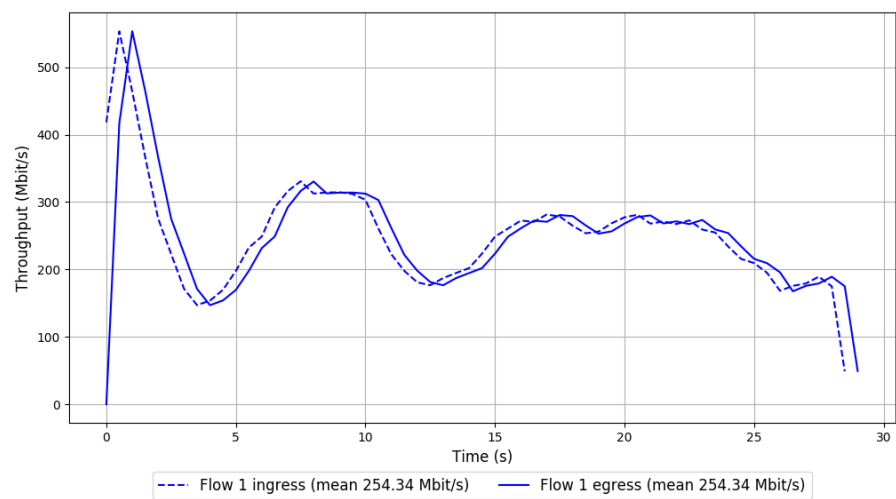
-- Flow 1:

Average throughput: 254.34 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:04:59

End at: 2019-01-19 06:05:29

Local clock offset: -0.15 ms

Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 278.57 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.01%

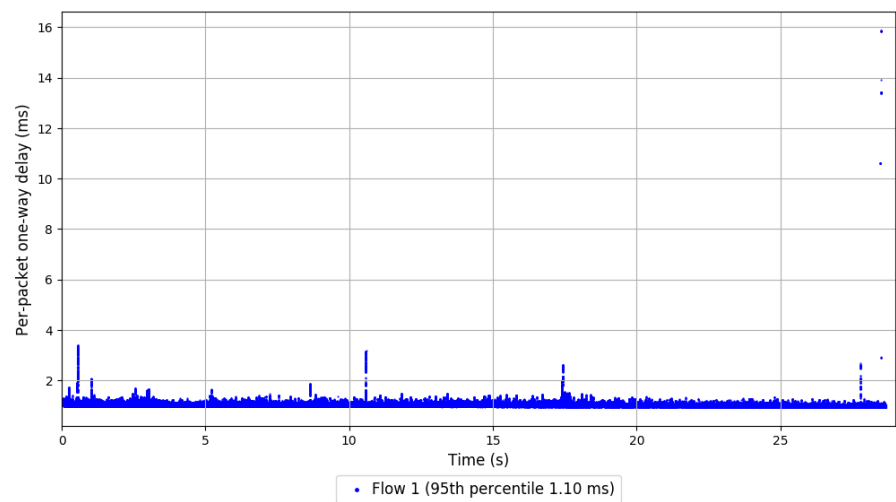
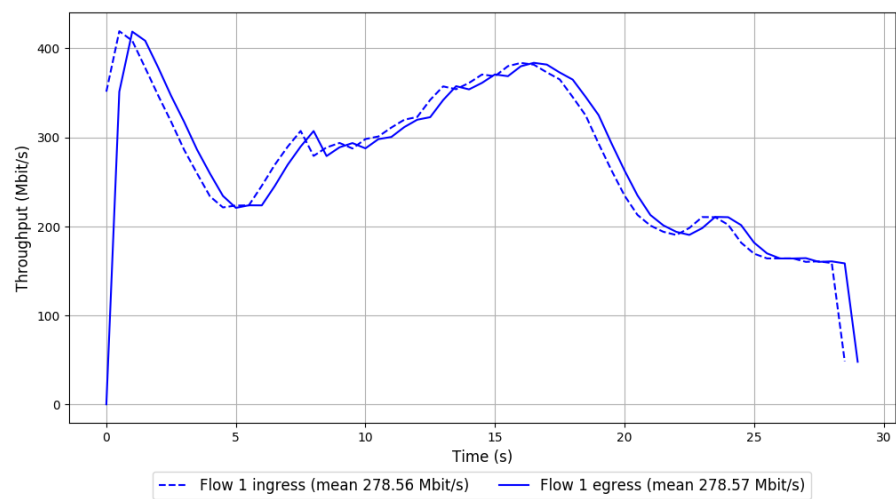
-- Flow 1:

Average throughput: 278.57 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link



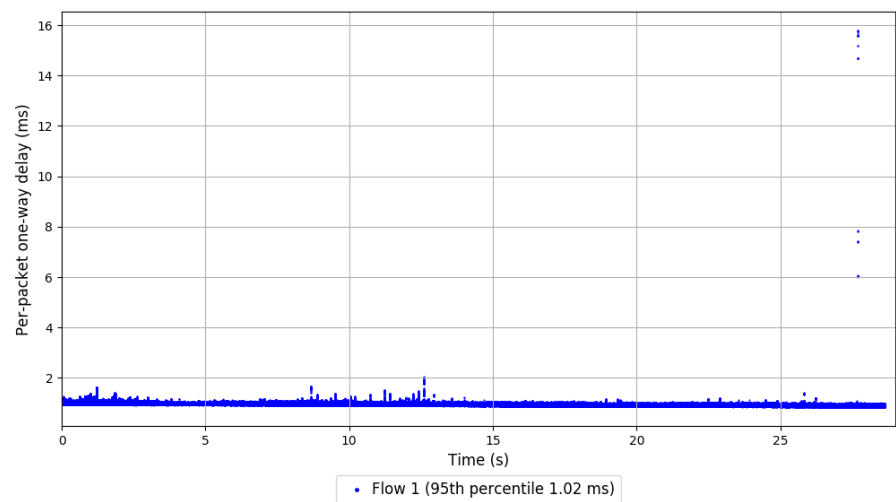
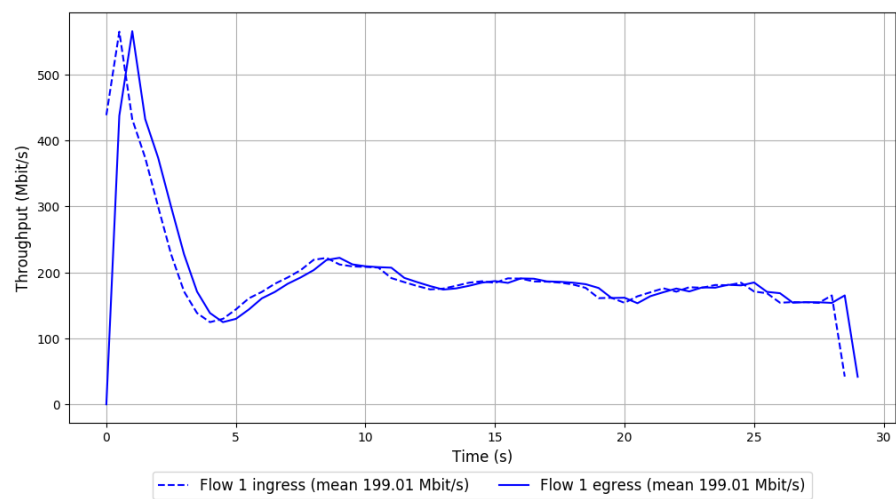


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:34:37  
End at: 2019-01-19 06:35:07  
Local clock offset: 2.914 ms  
Remote clock offset: -2.818 ms

# Below is generated by plot.py at 2019-01-19 08:33:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 199.01 Mbit/s  
95th percentile per-packet one-way delay: 1.018 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 199.01 Mbit/s  
95th percentile per-packet one-way delay: 1.018 ms  
Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-19 07:04:17

End at: 2019-01-19 07:04:47

Local clock offset: 4.53 ms

Remote clock offset: -1.97 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.55 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.01%

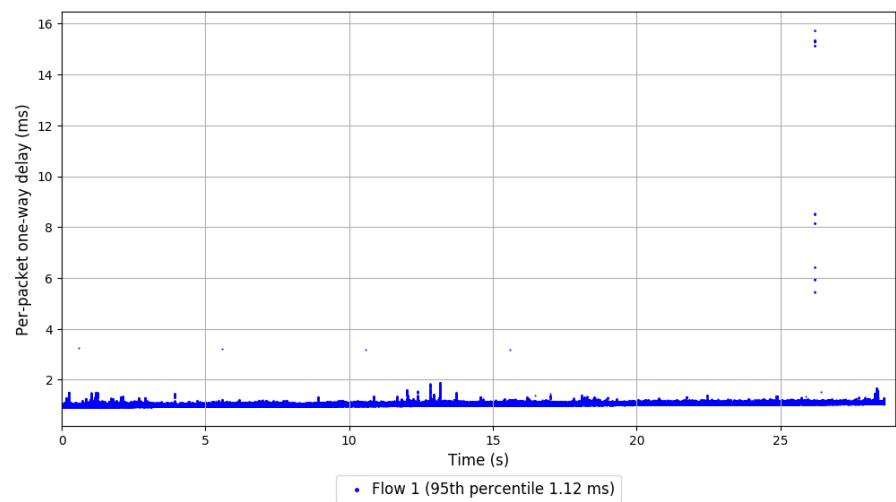
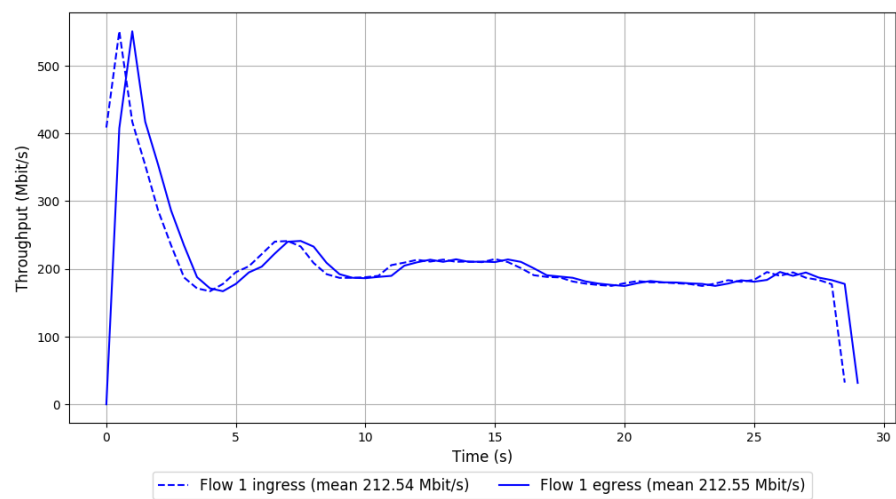
-- Flow 1:

Average throughput: 212.55 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-19 07:34:05

End at: 2019-01-19 07:34:35

Local clock offset: 0.097 ms

Remote clock offset: 1.387 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 271.35 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.00%

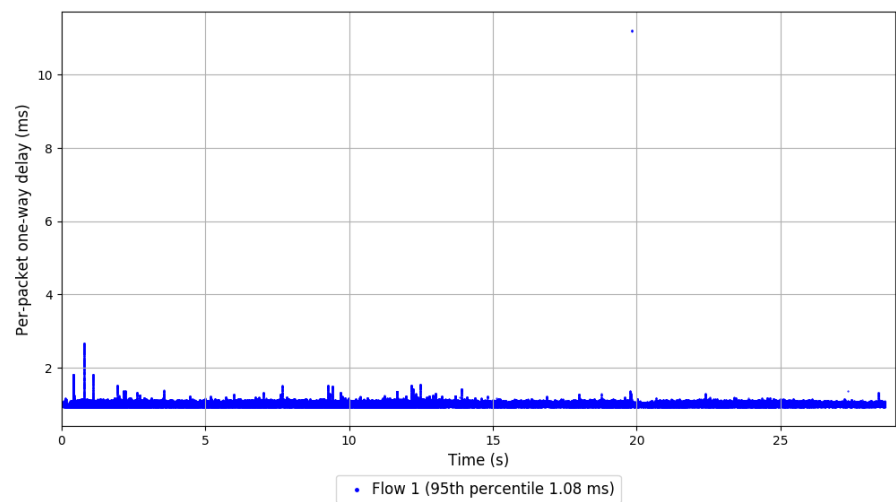
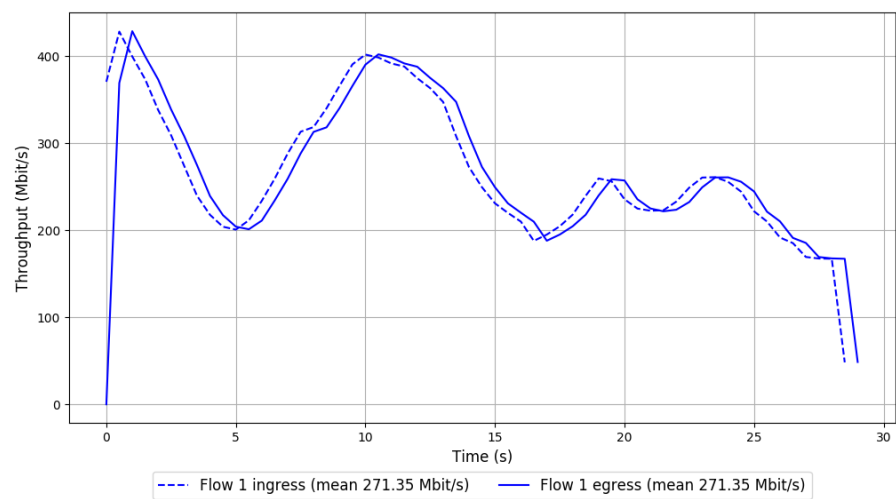
-- Flow 1:

Average throughput: 271.35 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

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

End at: 2019-01-19 05:23:28

Local clock offset: -0.332 ms

Remote clock offset: 0.89 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 107.59 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.00%

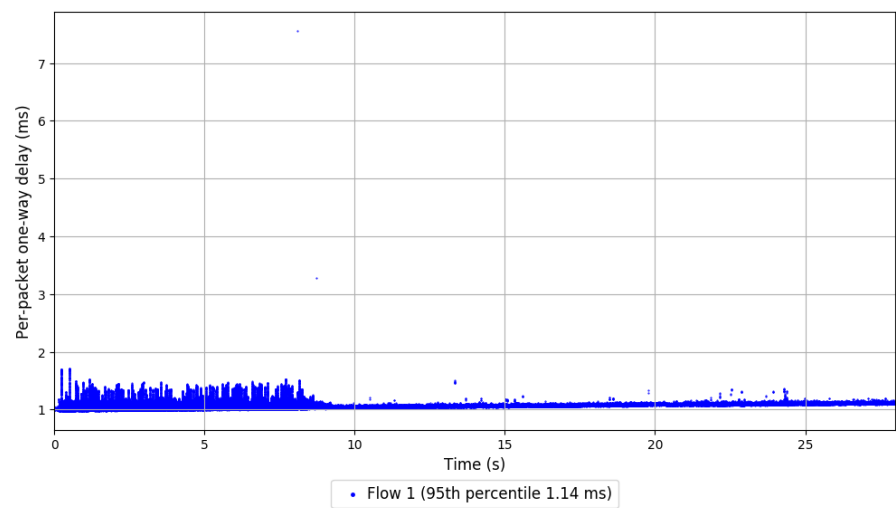
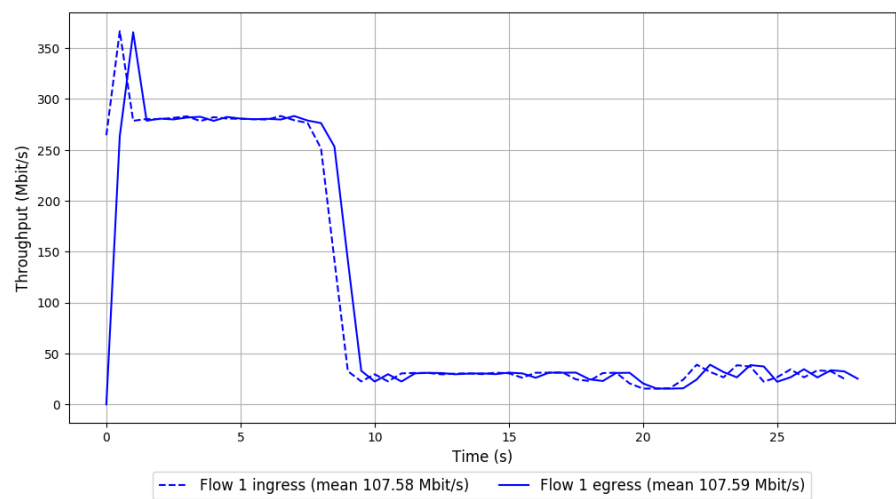
-- Flow 1:

Average throughput: 107.59 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-19 05:52:41

End at: 2019-01-19 05:53:11

Local clock offset: -0.25 ms

Remote clock offset: 2.924 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.54 Mbit/s

95th percentile per-packet one-way delay: 0.835 ms

Loss rate: 0.00%

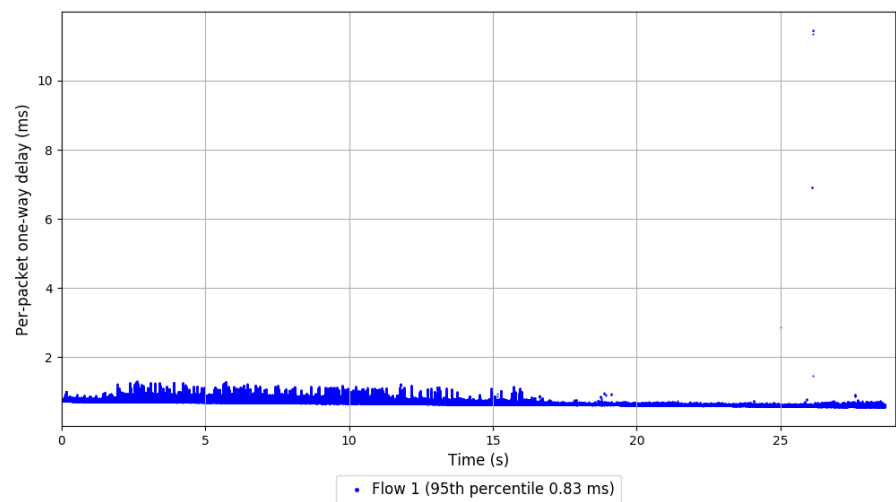
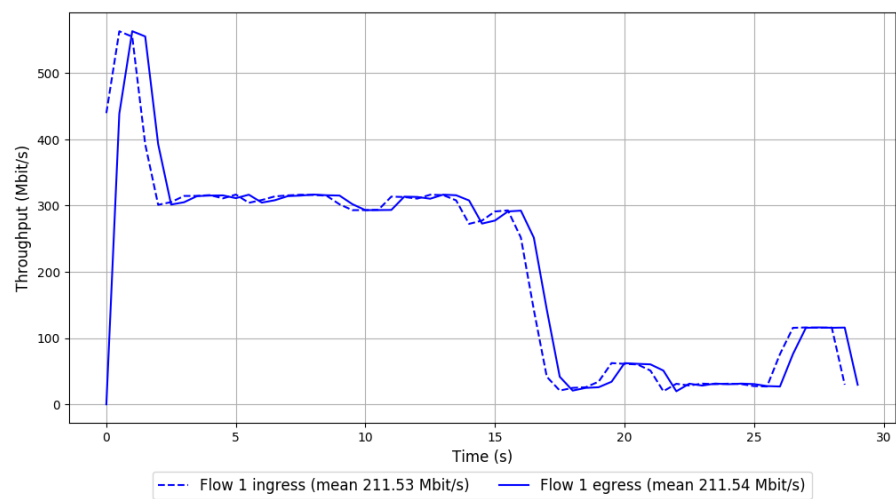
-- Flow 1:

Average throughput: 211.54 Mbit/s

95th percentile per-packet one-way delay: 0.835 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link

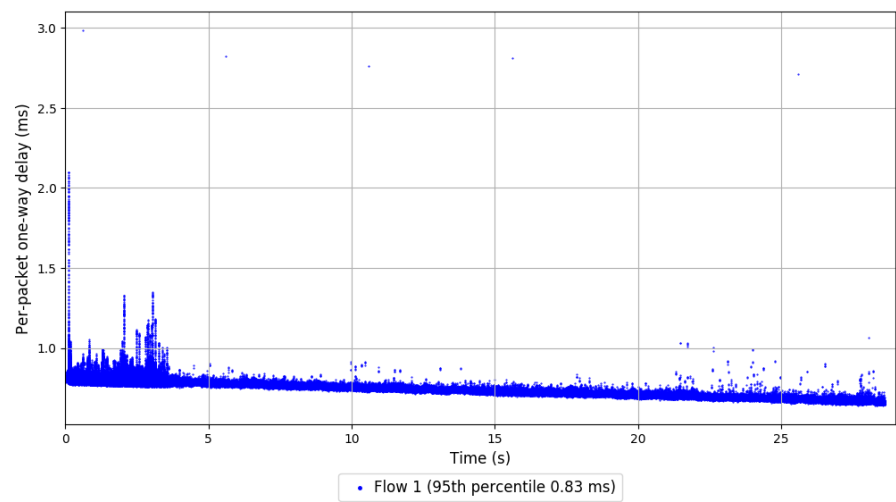
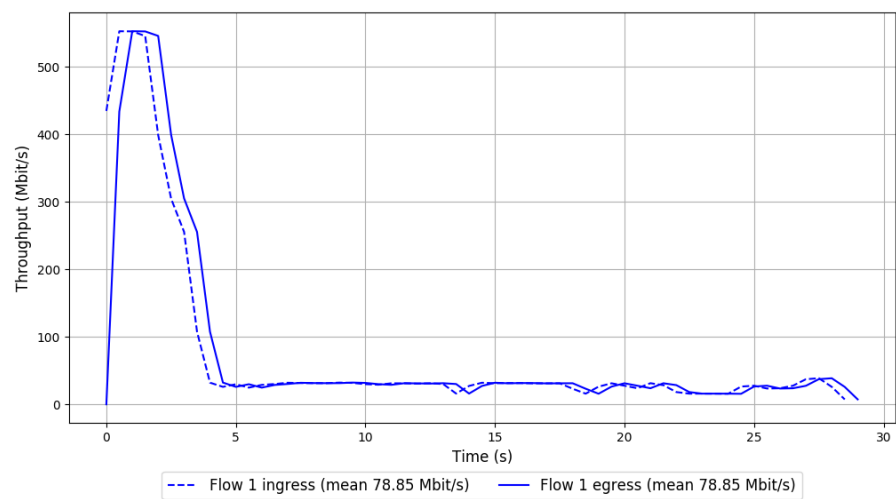


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:22:19  
End at: 2019-01-19 06:22:49  
Local clock offset: 0.788 ms  
Remote clock offset: -0.557 ms

# Below is generated by plot.py at 2019-01-19 08:33:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.85 Mbit/s  
95th percentile per-packet one-way delay: 0.833 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 78.85 Mbit/s  
95th percentile per-packet one-way delay: 0.833 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

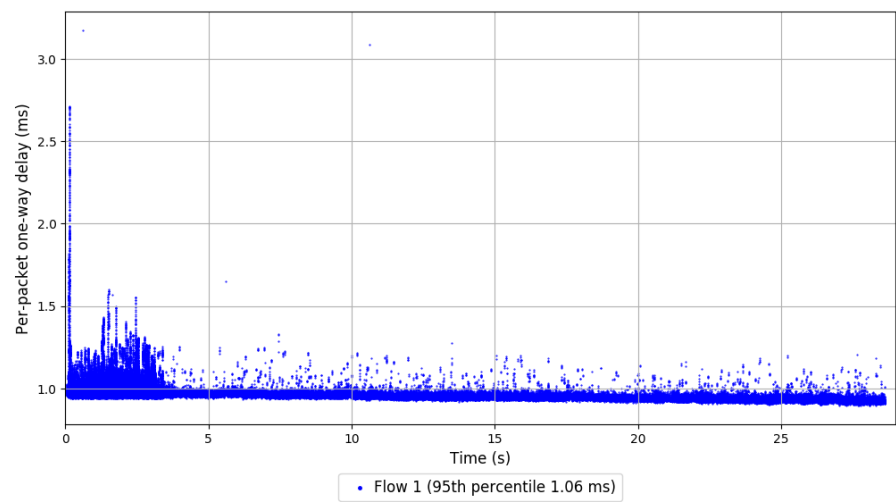
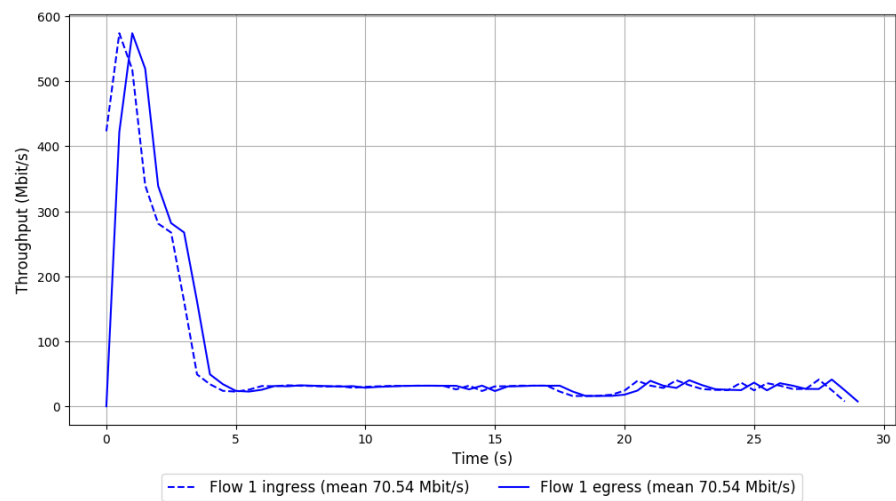


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:52:01  
End at: 2019-01-19 06:52:31  
Local clock offset: 4.009 ms  
Remote clock offset: -4.276 ms

# Below is generated by plot.py at 2019-01-19 08:33:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.54 Mbit/s  
95th percentile per-packet one-way delay: 1.057 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.54 Mbit/s  
95th percentile per-packet one-way delay: 1.057 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-19 07:21:41

End at: 2019-01-19 07:22:11

Local clock offset: 3.893 ms

Remote clock offset: 0.844 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.25 Mbit/s

95th percentile per-packet one-way delay: 1.604 ms

Loss rate: 0.01%

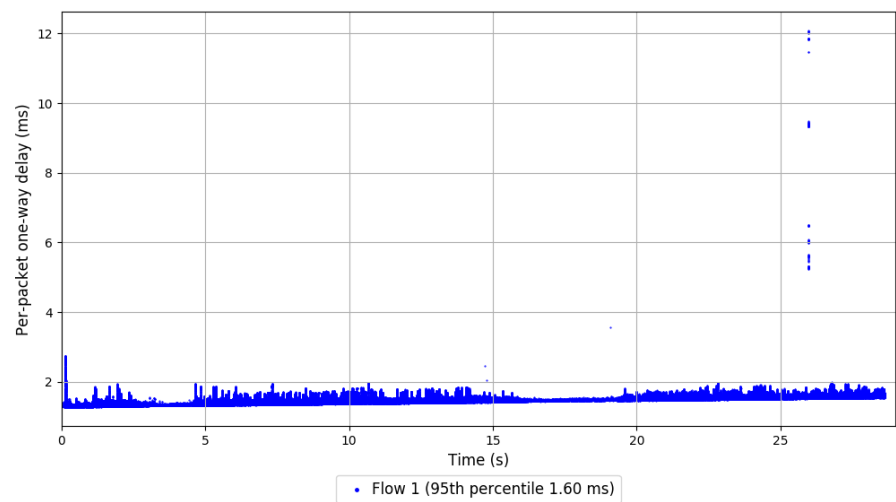
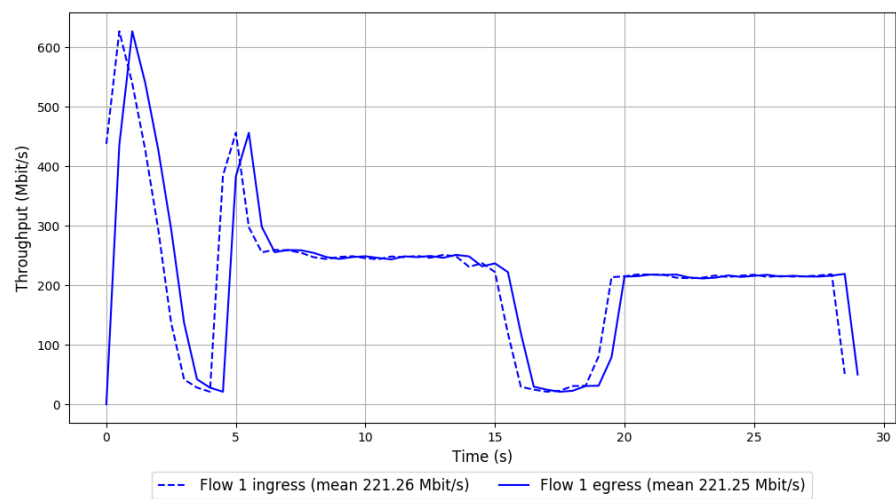
-- Flow 1:

Average throughput: 221.25 Mbit/s

95th percentile per-packet one-way delay: 1.604 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-19 05:24:14

End at: 2019-01-19 05:24:44

Local clock offset: -0.324 ms

Remote clock offset: 1.137 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.00%

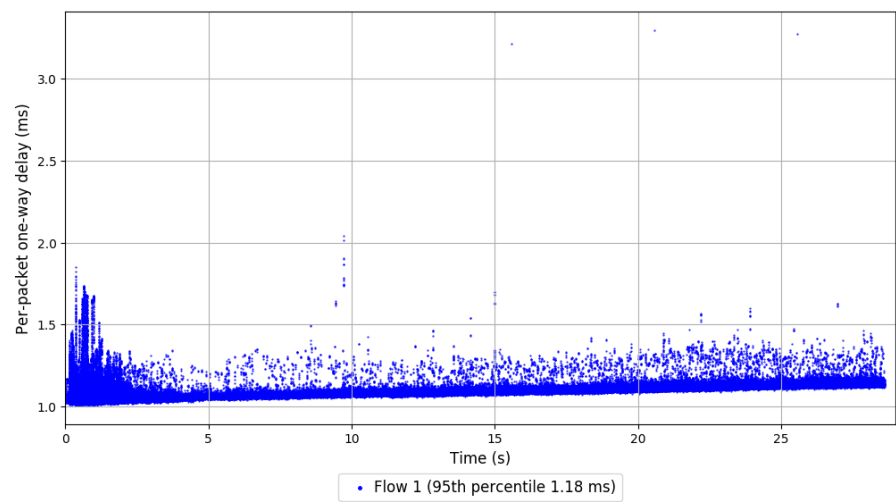
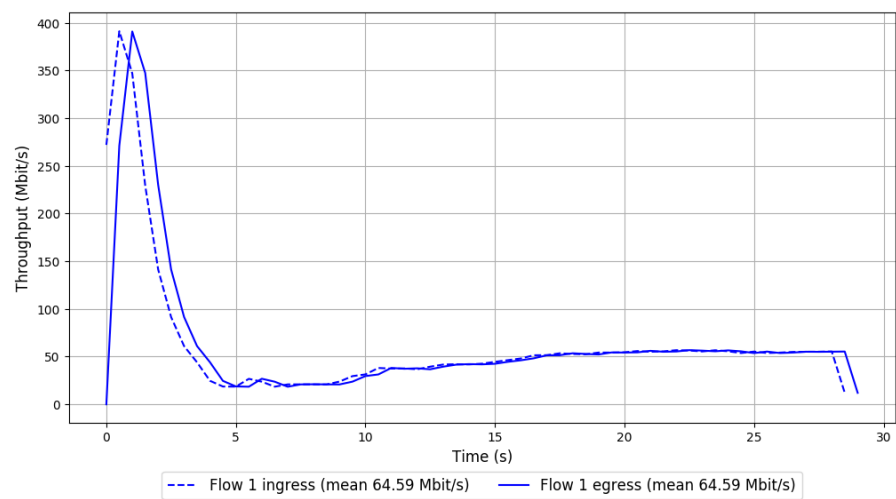
-- Flow 1:

Average throughput: 64.59 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

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

End at: 2019-01-19 05:54:31

Local clock offset: -0.23 ms

Remote clock offset: 2.33 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 133.76 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.00%

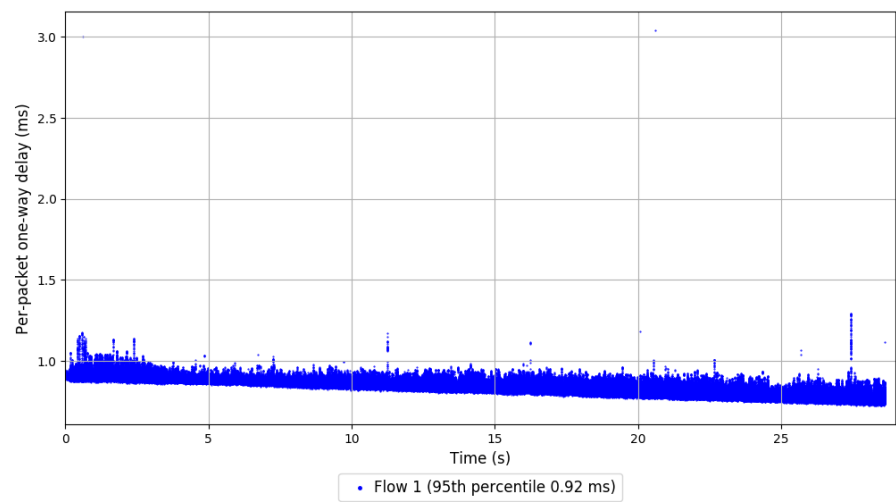
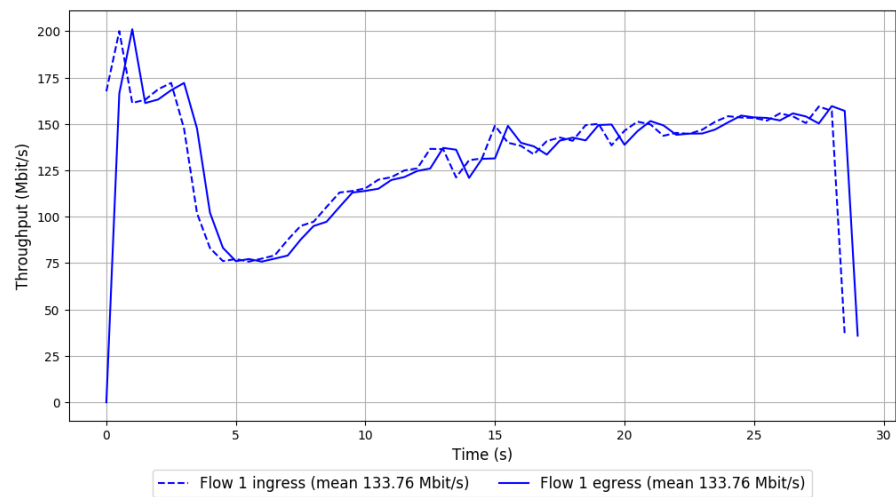
-- Flow 1:

Average throughput: 133.76 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-19 06:23:35

End at: 2019-01-19 06:24:05

Local clock offset: 1.089 ms

Remote clock offset: -0.665 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.93 Mbit/s

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

Loss rate: 0.01%

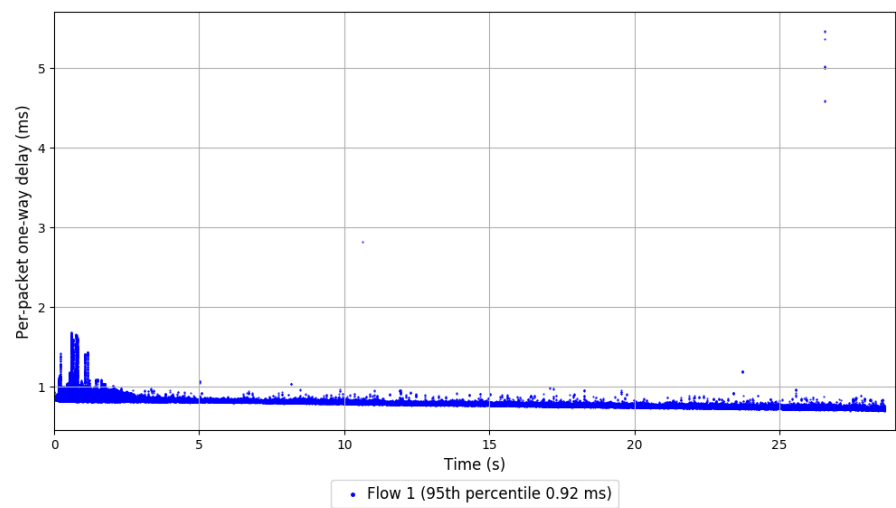
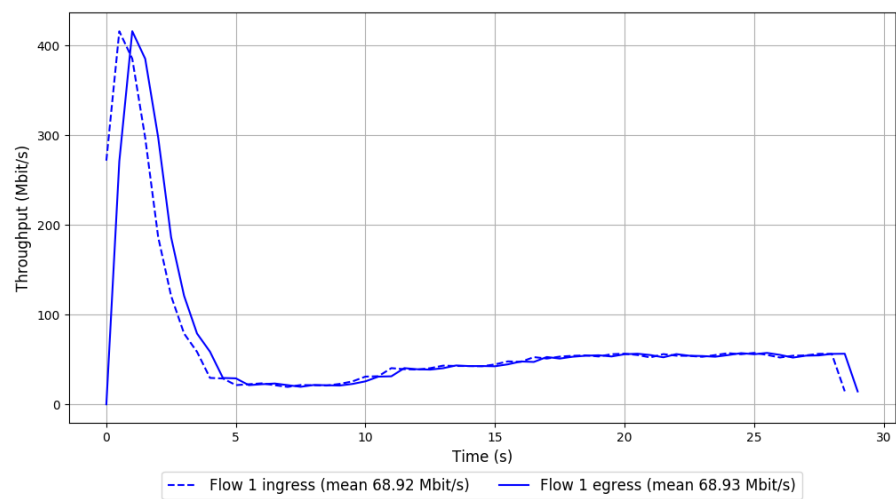
-- Flow 1:

Average throughput: 68.93 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-19 06:53:16

End at: 2019-01-19 06:53:46

Local clock offset: 4.084 ms

Remote clock offset: -4.329 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 124.48 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.01%

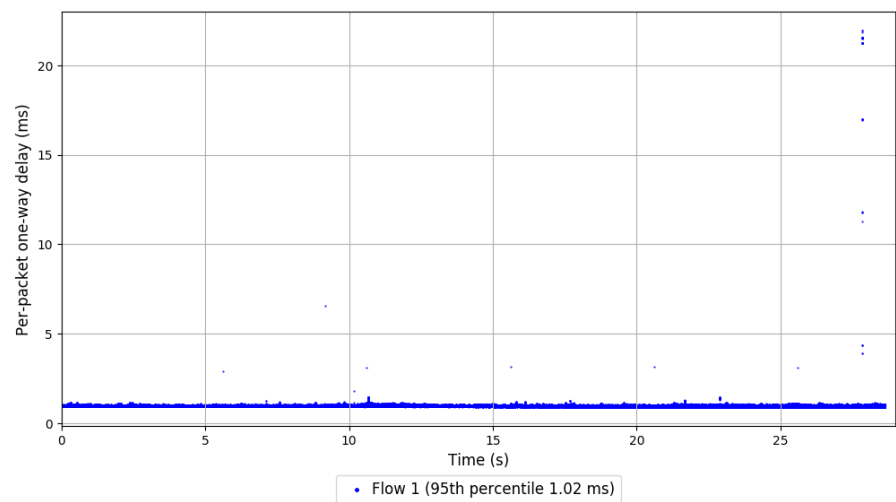
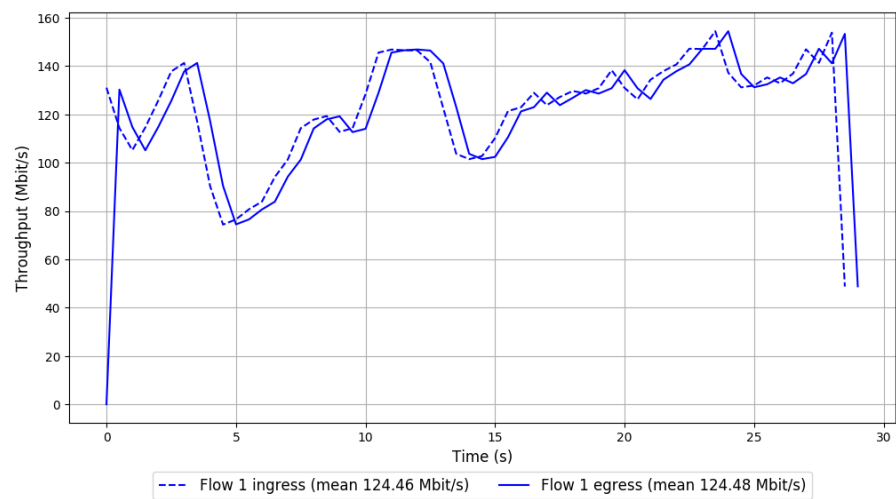
-- Flow 1:

Average throughput: 124.48 Mbit/s

95th percentile per-packet one-way delay: 1.020 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-19 07:23:01

End at: 2019-01-19 07:23:31

Local clock offset: 3.2 ms

Remote clock offset: 0.919 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 142.67 Mbit/s

95th percentile per-packet one-way delay: 1.509 ms

Loss rate: 0.01%

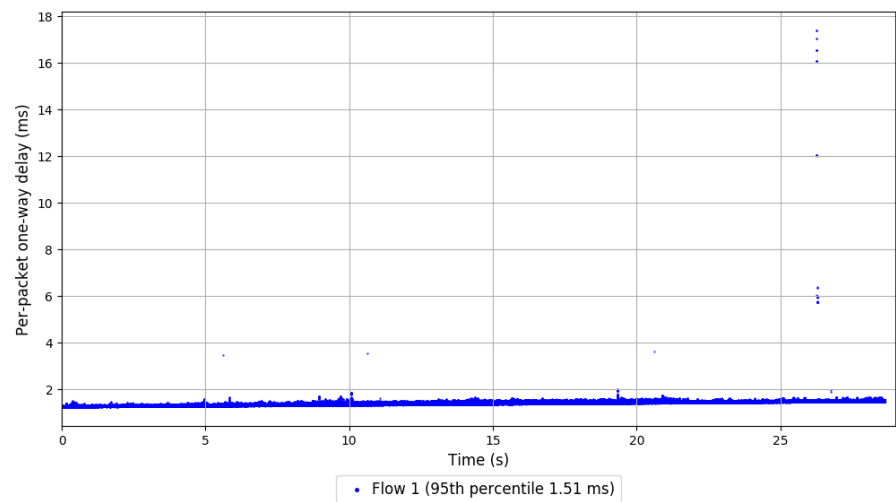
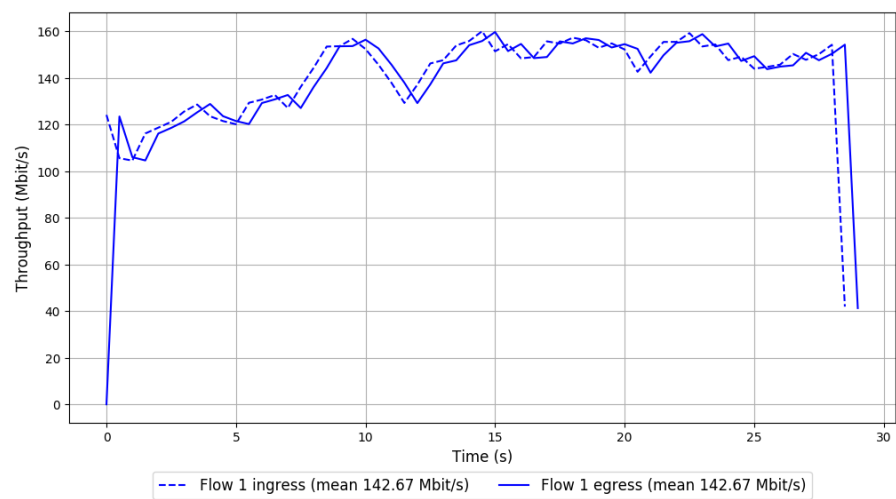
-- Flow 1:

Average throughput: 142.67 Mbit/s

95th percentile per-packet one-way delay: 1.509 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesD — Data Link

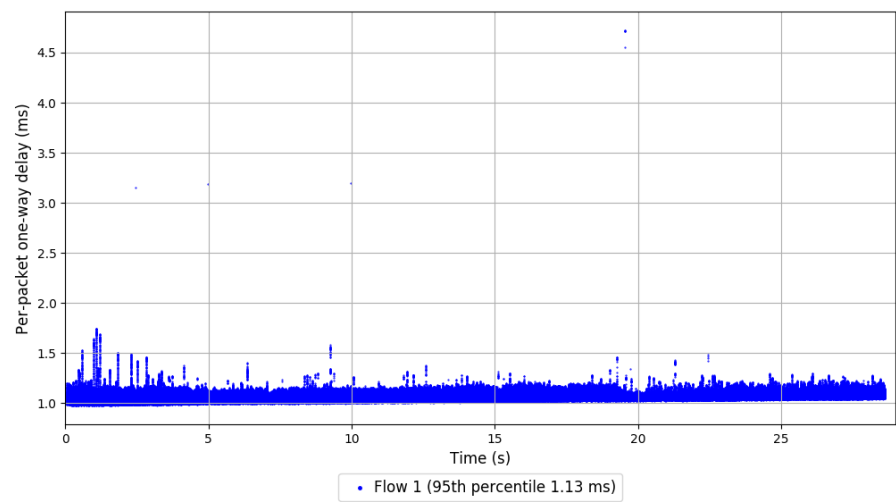
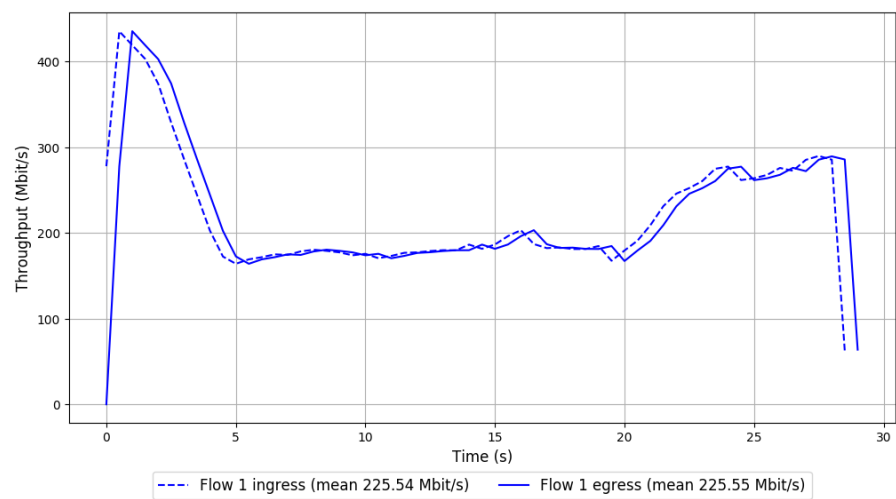


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-19 05:29:36
End at: 2019-01-19 05:30:06
Local clock offset: -0.267 ms
Remote clock offset: 2.174 ms

# Below is generated by plot.py at 2019-01-19 08:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.55 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.55 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-19 05:59:22

End at: 2019-01-19 05:59:52

Local clock offset: -0.18 ms

Remote clock offset: 1.029 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 208.67 Mbit/s

95th percentile per-packet one-way delay: 1.005 ms

Loss rate: 0.00%

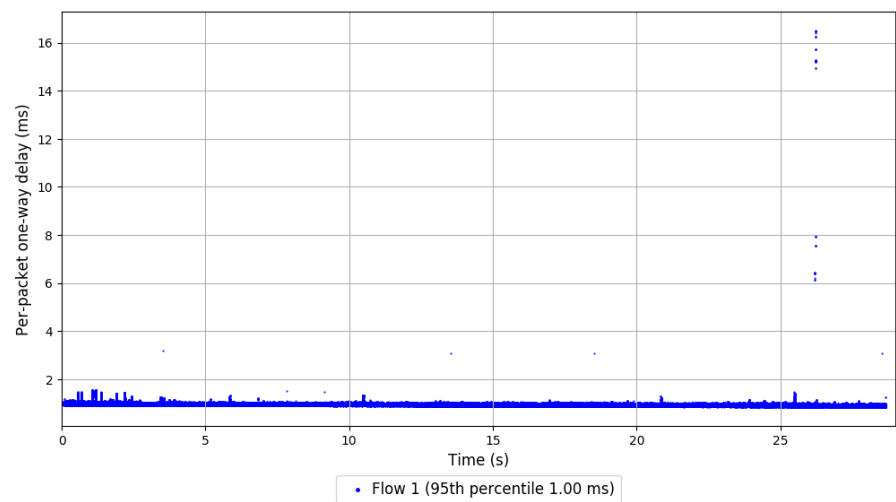
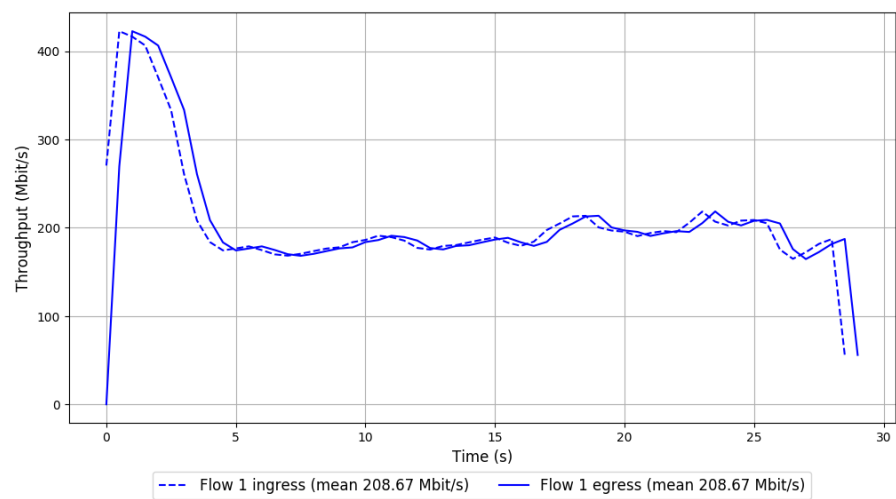
-- Flow 1:

Average throughput: 208.67 Mbit/s

95th percentile per-packet one-way delay: 1.005 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link

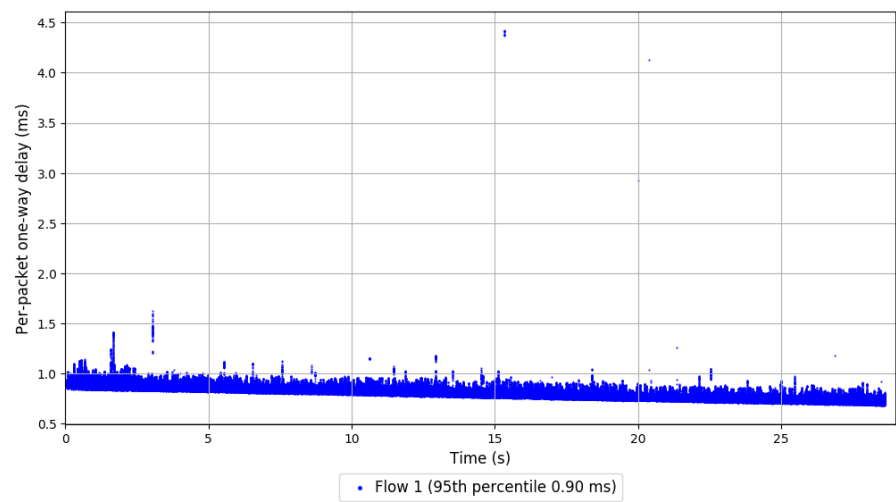
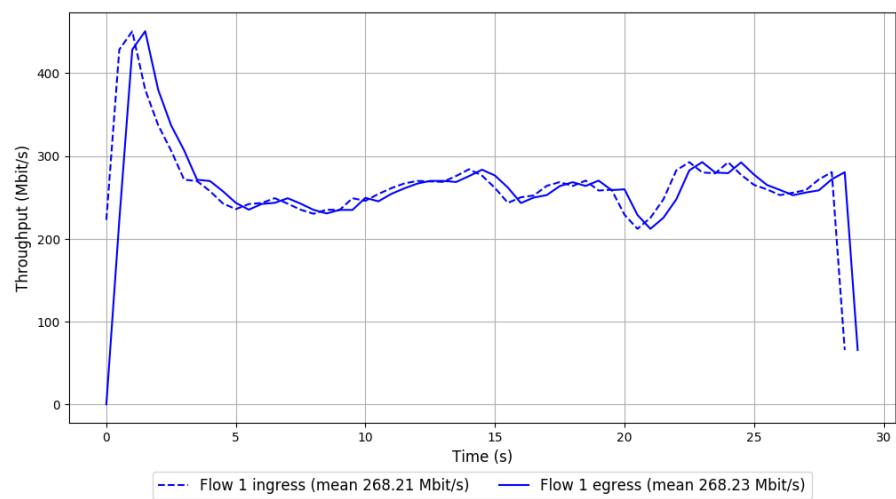


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:28:55  
End at: 2019-01-19 06:29:25  
Local clock offset: 2.18 ms  
Remote clock offset: -1.872 ms

# Below is generated by plot.py at 2019-01-19 08:33:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 268.23 Mbit/s  
95th percentile per-packet one-way delay: 0.897 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 268.23 Mbit/s  
95th percentile per-packet one-way delay: 0.897 ms  
Loss rate: 0.01%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:58:38

End at: 2019-01-19 06:59:08

Local clock offset: 4.303 ms

Remote clock offset: -4.309 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 265.84 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.01%

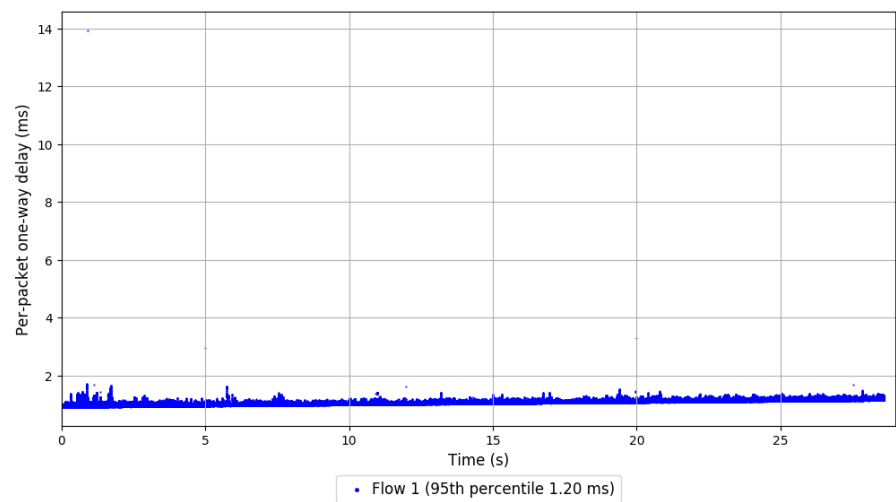
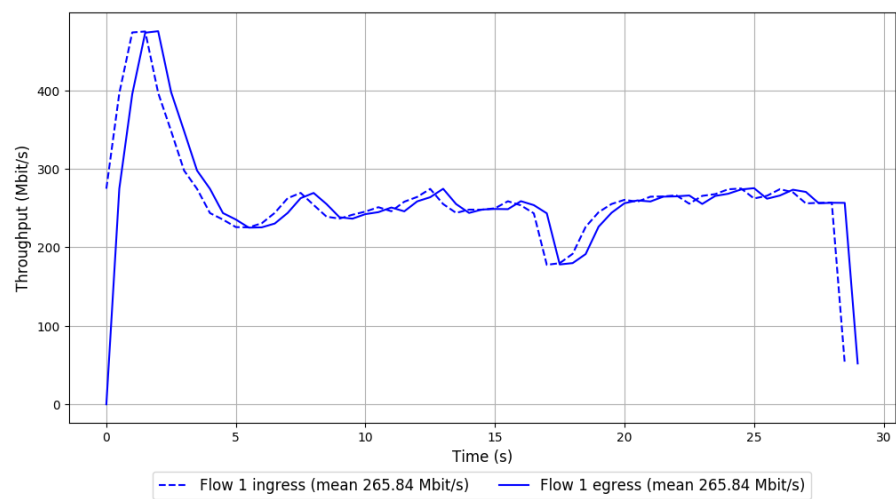
-- Flow 1:

Average throughput: 265.84 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-19 07:28:23

End at: 2019-01-19 07:28:53

Local clock offset: 1.275 ms

Remote clock offset: 1.283 ms

# Below is generated by plot.py at 2019-01-19 08:33:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 264.60 Mbit/s

95th percentile per-packet one-way delay: 1.339 ms

Loss rate: 0.01%

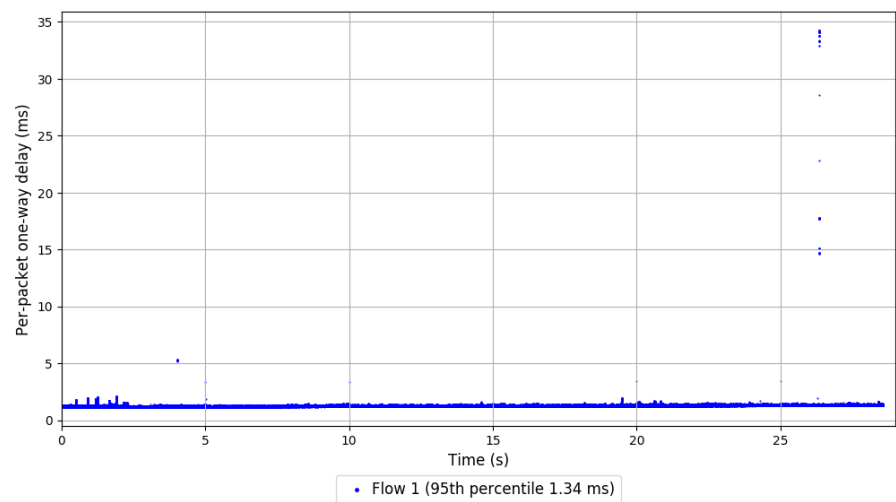
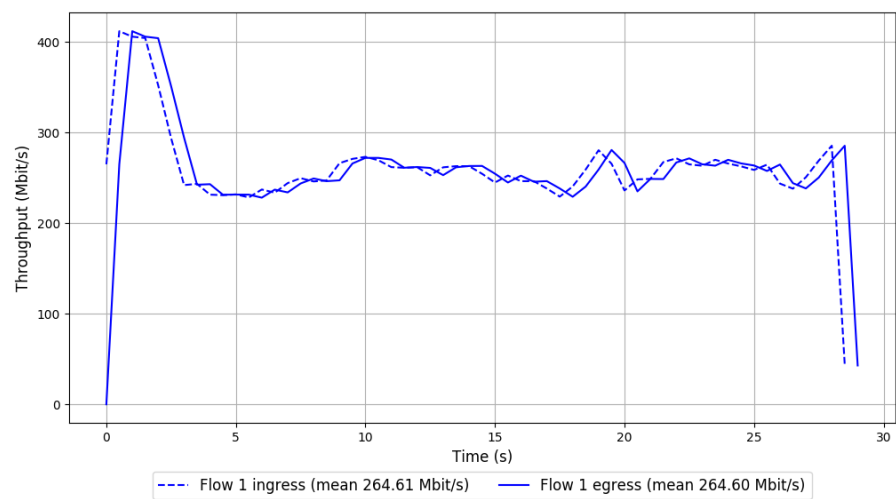
-- Flow 1:

Average throughput: 264.60 Mbit/s

95th percentile per-packet one-way delay: 1.339 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-01-19 05:25:29

End at: 2019-01-19 05:25:59

Local clock offset: -0.298 ms

Remote clock offset: 1.418 ms

# Below is generated by plot.py at 2019-01-19 08:36:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 599.57 Mbit/s

95th percentile per-packet one-way delay: 2.237 ms

Loss rate: 0.01%

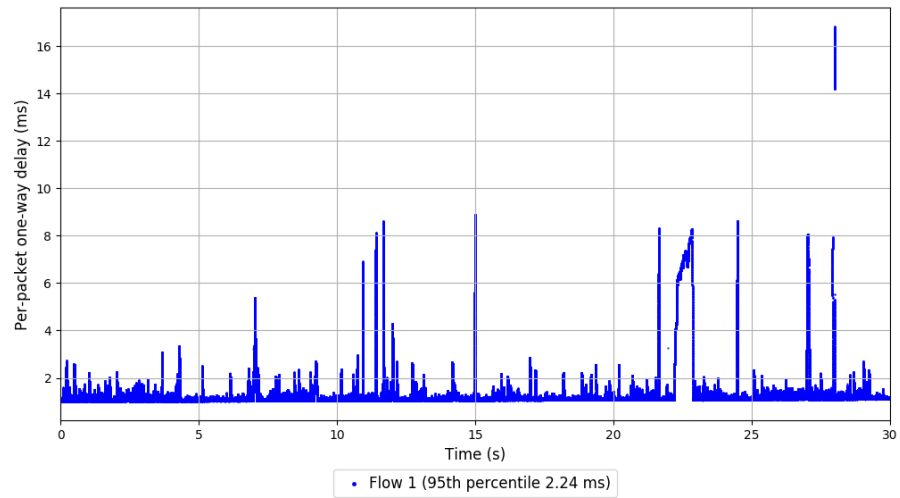
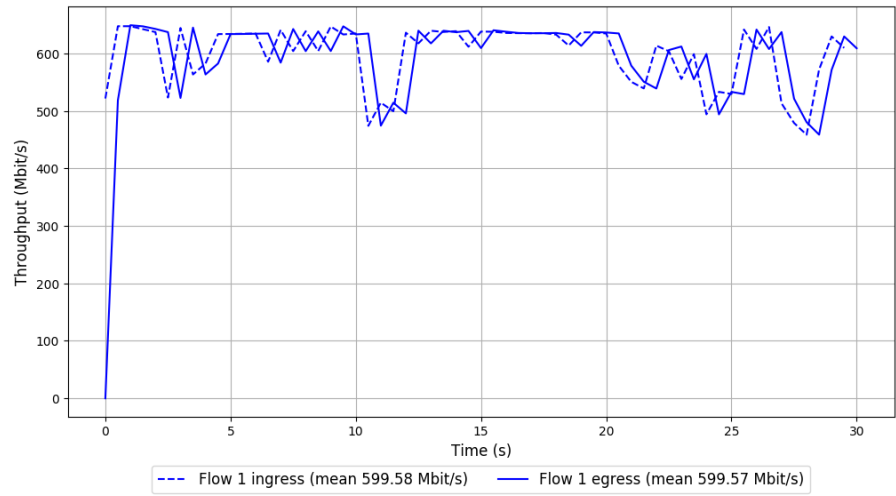
-- Flow 1:

Average throughput: 599.57 Mbit/s

95th percentile per-packet one-way delay: 2.237 ms

Loss rate: 0.01%

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



Run 2: Statistics of LEDBAT

Start at: 2019-01-19 05:55:17

End at: 2019-01-19 05:55:47

Local clock offset: -0.194 ms

Remote clock offset: 1.975 ms

# Below is generated by plot.py at 2019-01-19 08:36:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 576.82 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.01%

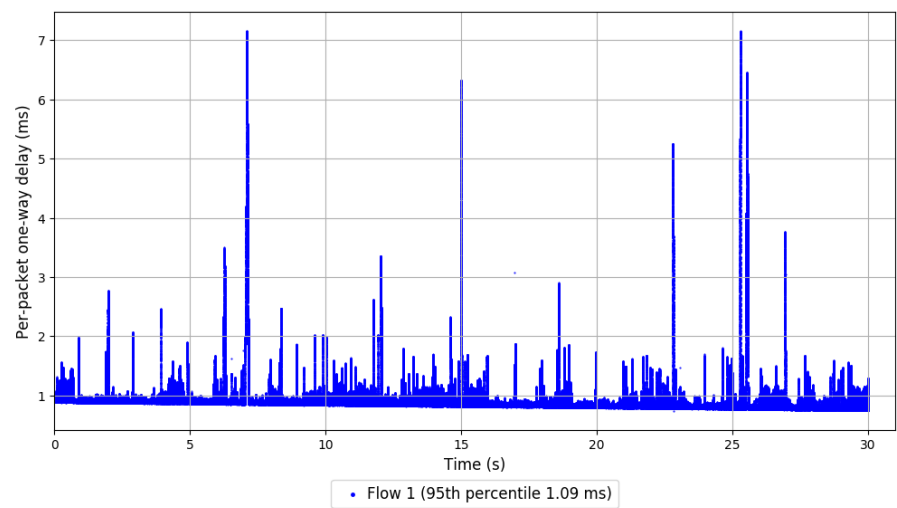
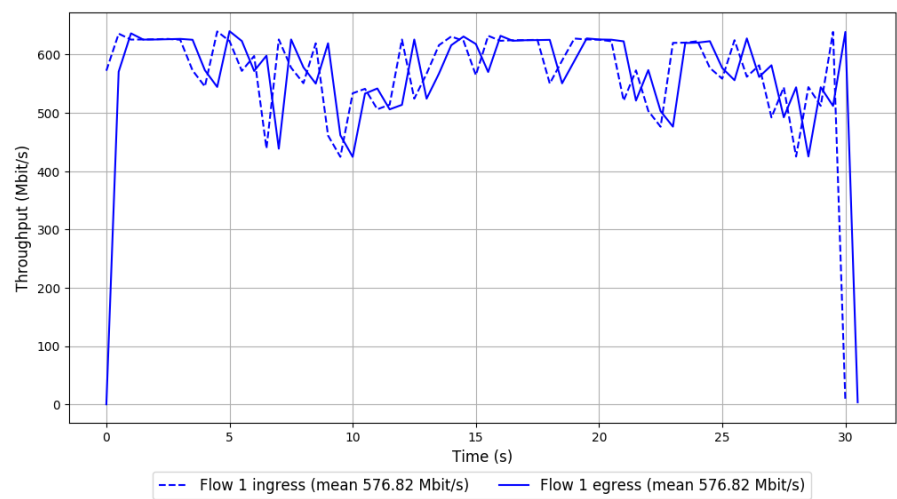
-- Flow 1:

Average throughput: 576.82 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-01-19 06:24:50

End at: 2019-01-19 06:25:20

Local clock offset: 1.44 ms

Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2019-01-19 08:37:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 583.35 Mbit/s

95th percentile per-packet one-way delay: 4.376 ms

Loss rate: 0.03%

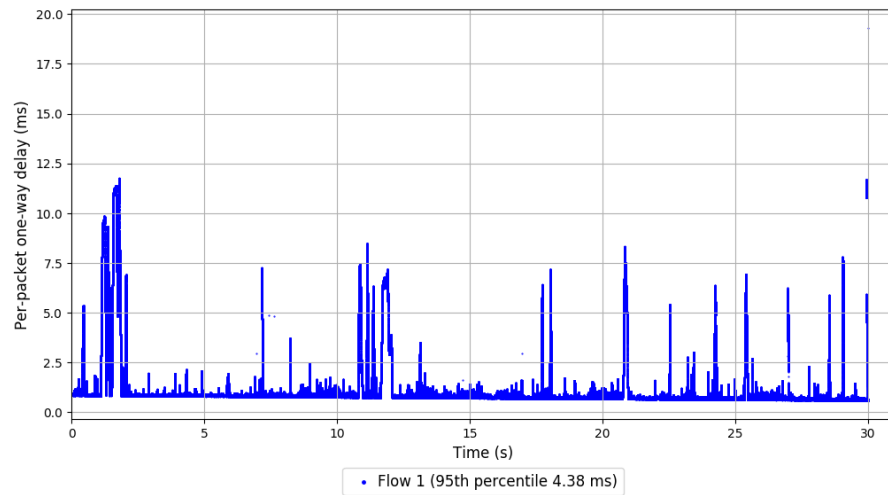
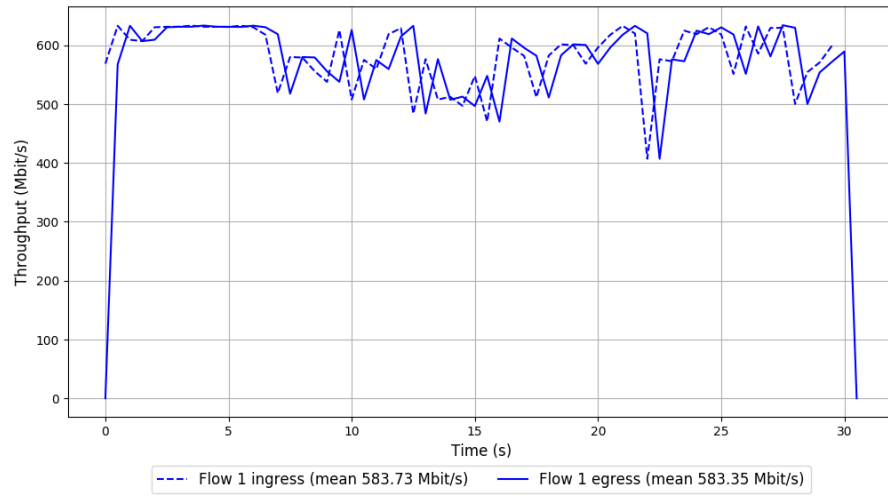
-- Flow 1:

Average throughput: 583.35 Mbit/s

95th percentile per-packet one-way delay: 4.376 ms

Loss rate: 0.03%

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

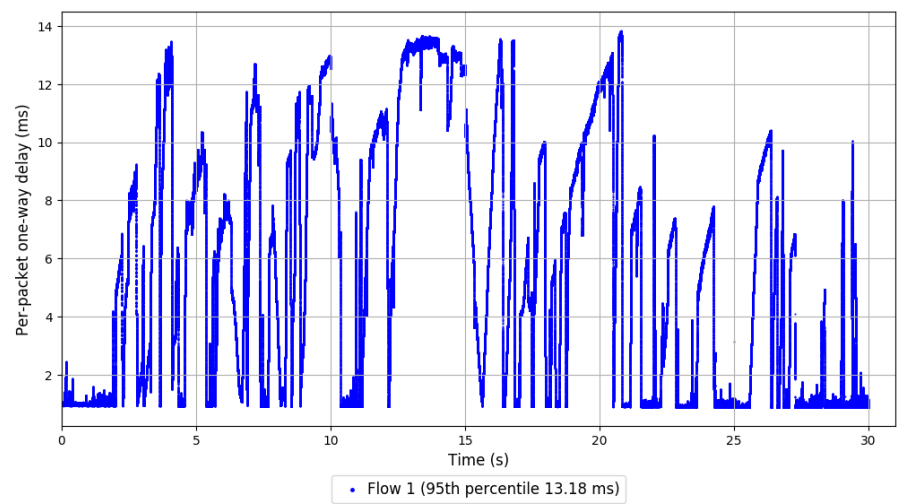
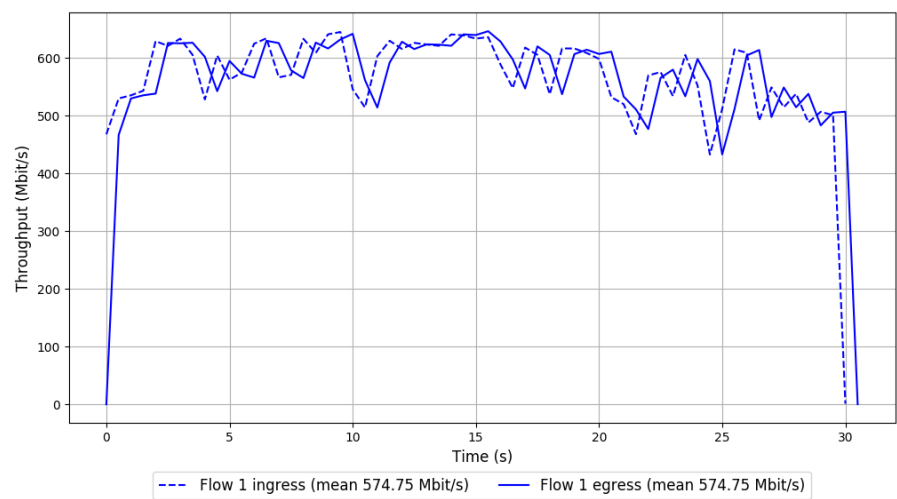


Run 4: Statistics of LEDBAT

Start at: 2019-01-19 06:54:32  
End at: 2019-01-19 06:55:02  
Local clock offset: 4.109 ms  
Remote clock offset: -4.416 ms

# Below is generated by plot.py at 2019-01-19 08:37:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 574.75 Mbit/s  
95th percentile per-packet one-way delay: 13.178 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 574.75 Mbit/s  
95th percentile per-packet one-way delay: 13.178 ms  
Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-01-19 07:24:18

End at: 2019-01-19 07:24:48

Local clock offset: 2.605 ms

Remote clock offset: 0.989 ms

# Below is generated by plot.py at 2019-01-19 08:37:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 573.14 Mbit/s

95th percentile per-packet one-way delay: 5.494 ms

Loss rate: 0.00%

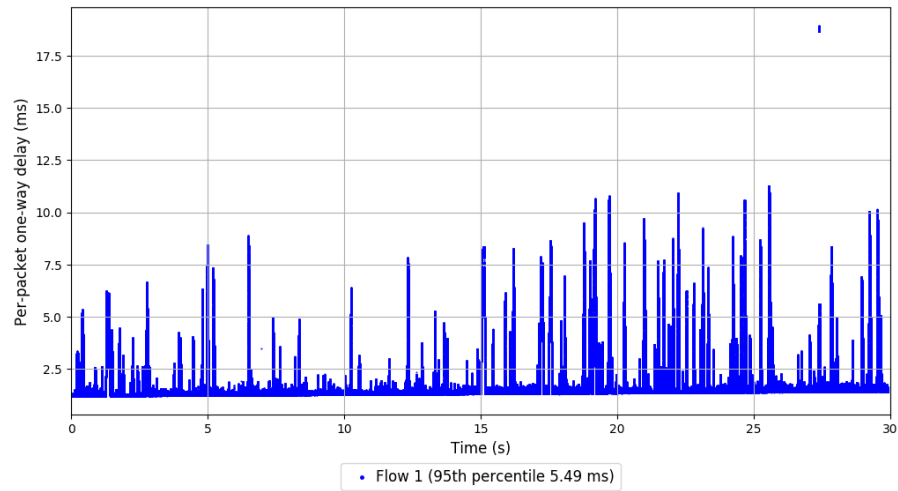
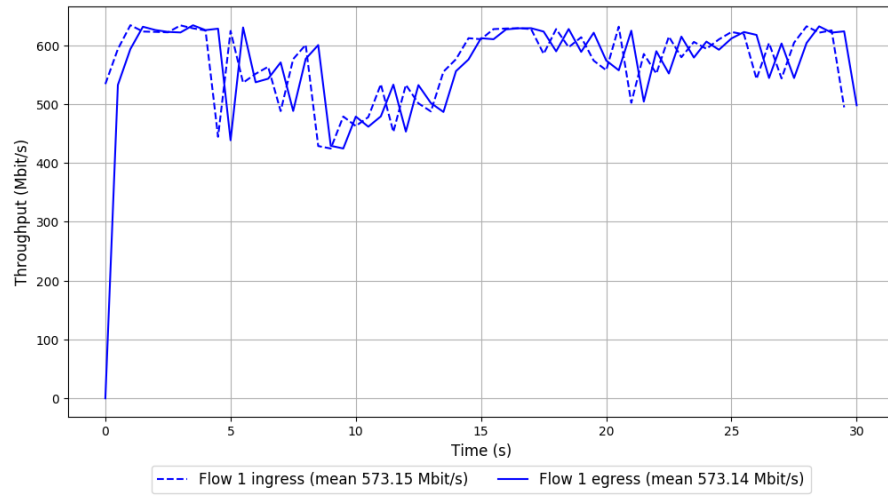
-- Flow 1:

Average throughput: 573.14 Mbit/s

95th percentile per-packet one-way delay: 5.494 ms

Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link

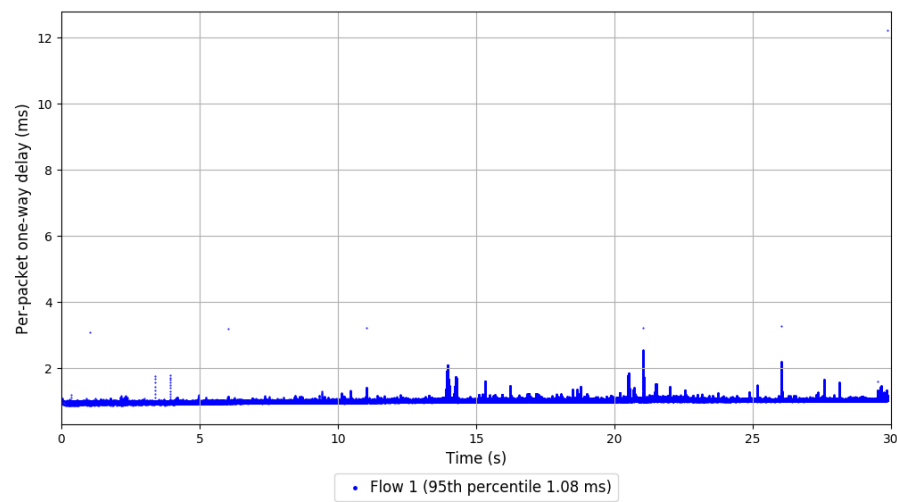
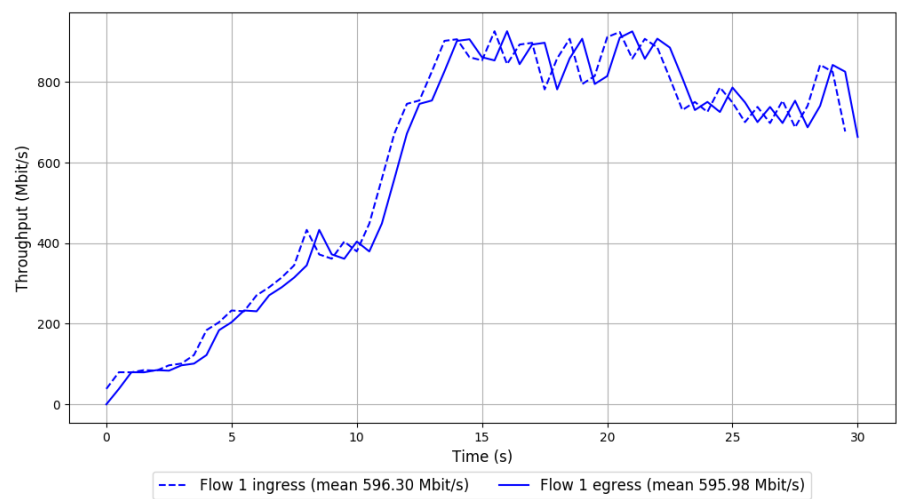


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-19 05:30:56
End at: 2019-01-19 05:31:26
Local clock offset: -0.253 ms
Remote clock offset: 2.408 ms

# Below is generated by plot.py at 2019-01-19 08:38:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.98 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 595.98 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.04%
```

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-19 06:00:42

End at: 2019-01-19 06:01:12

Local clock offset: -0.157 ms

Remote clock offset: 0.874 ms

# Below is generated by plot.py at 2019-01-19 08:39:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 744.52 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.00%

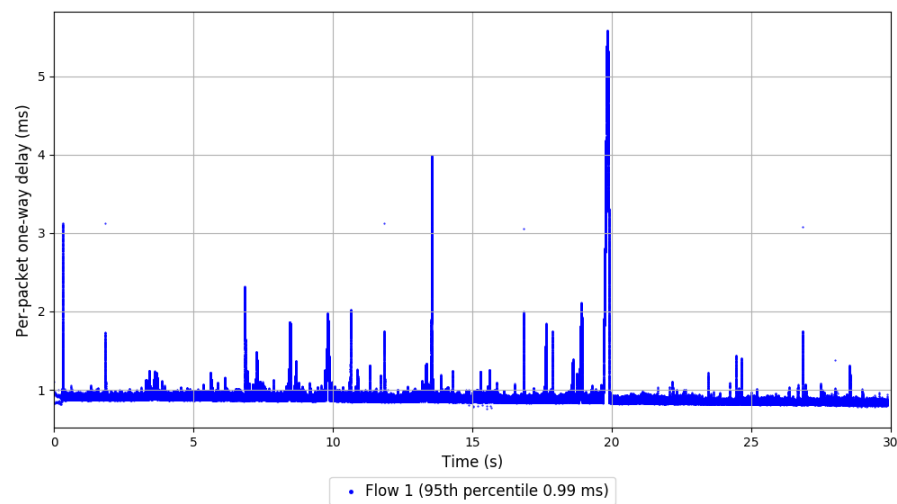
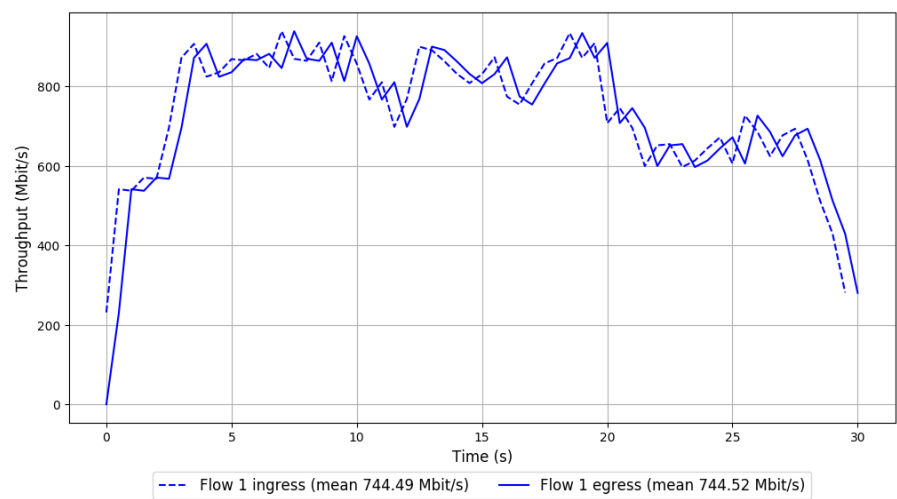
-- Flow 1:

Average throughput: 744.52 Mbit/s

95th percentile per-packet one-way delay: 0.995 ms

Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-19 06:30:16

End at: 2019-01-19 06:30:46

Local clock offset: 2.388 ms

Remote clock offset: -2.125 ms

# Below is generated by plot.py at 2019-01-19 08:41:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 723.02 Mbit/s

95th percentile per-packet one-way delay: 0.903 ms

Loss rate: 0.01%

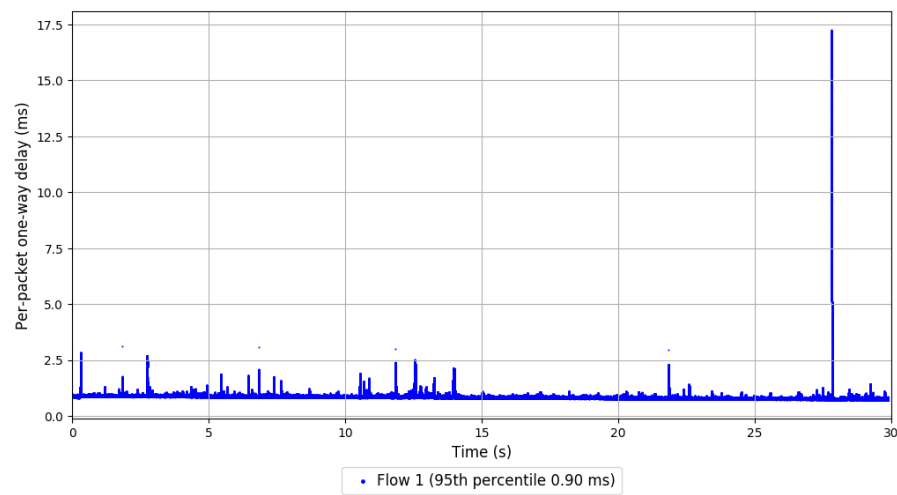
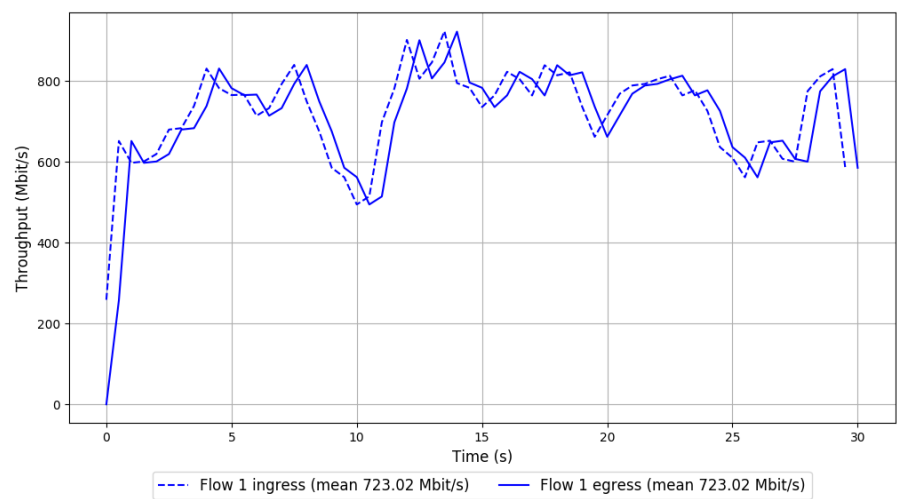
-- Flow 1:

Average throughput: 723.02 Mbit/s

95th percentile per-packet one-way delay: 0.903 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

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

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

Local clock offset: 4.363 ms

Remote clock offset: -3.768 ms

# Below is generated by plot.py at 2019-01-19 08:45:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 806.35 Mbit/s

95th percentile per-packet one-way delay: 1.935 ms

Loss rate: 0.01%

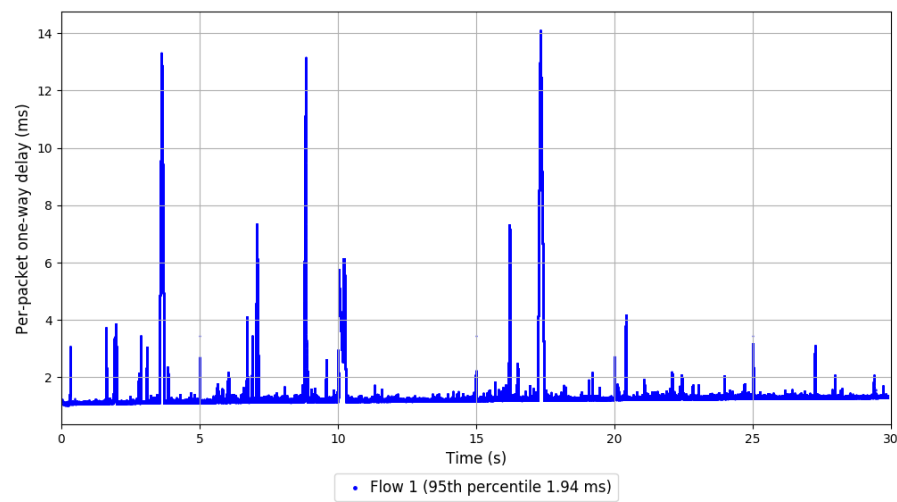
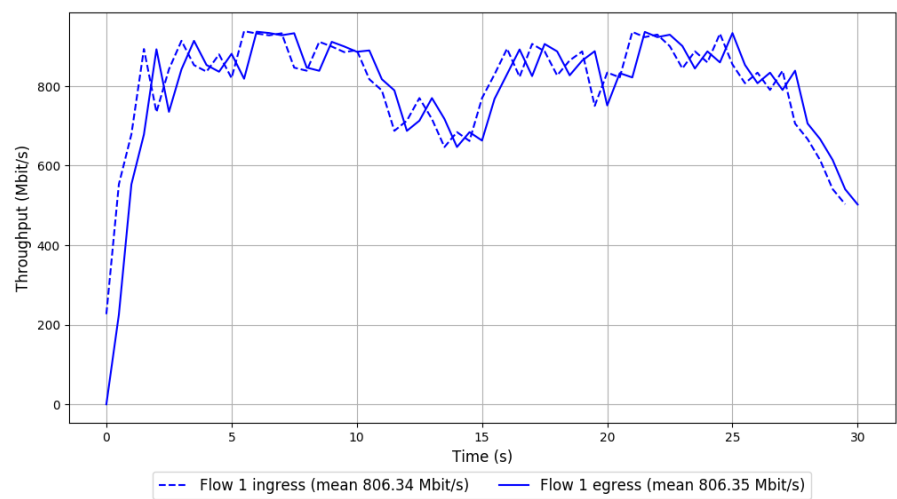
-- Flow 1:

Average throughput: 806.35 Mbit/s

95th percentile per-packet one-way delay: 1.935 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-19 07:29:44

End at: 2019-01-19 07:30:14

Local clock offset: 0.96 ms

Remote clock offset: 1.364 ms

# Below is generated by plot.py at 2019-01-19 08:45:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 804.29 Mbit/s

95th percentile per-packet one-way delay: 1.514 ms

Loss rate: 0.01%

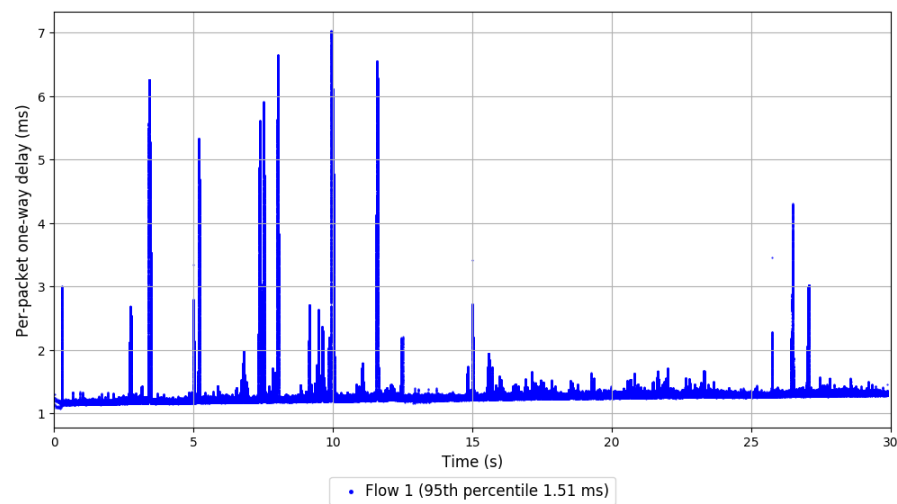
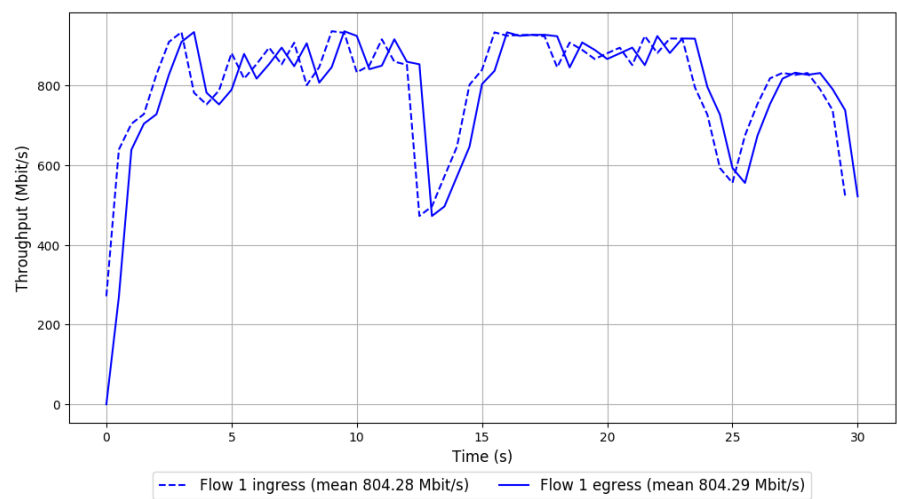
-- Flow 1:

Average throughput: 804.29 Mbit/s

95th percentile per-packet one-way delay: 1.514 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link



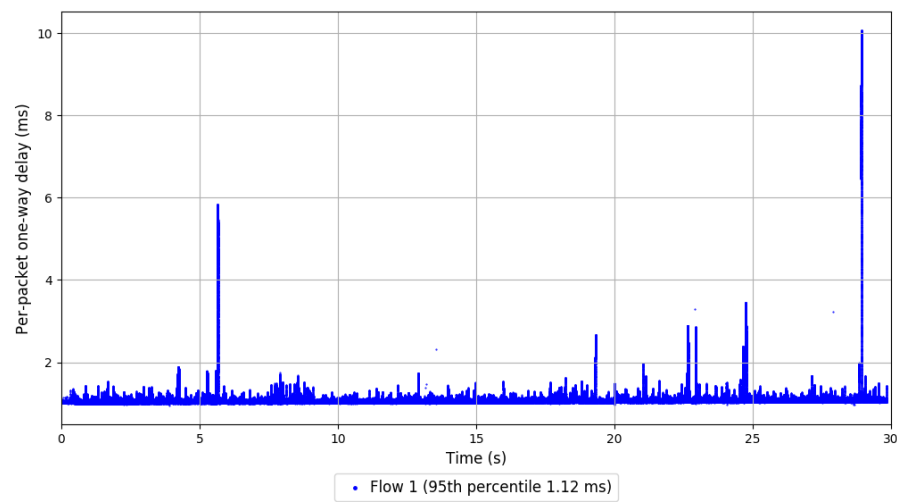
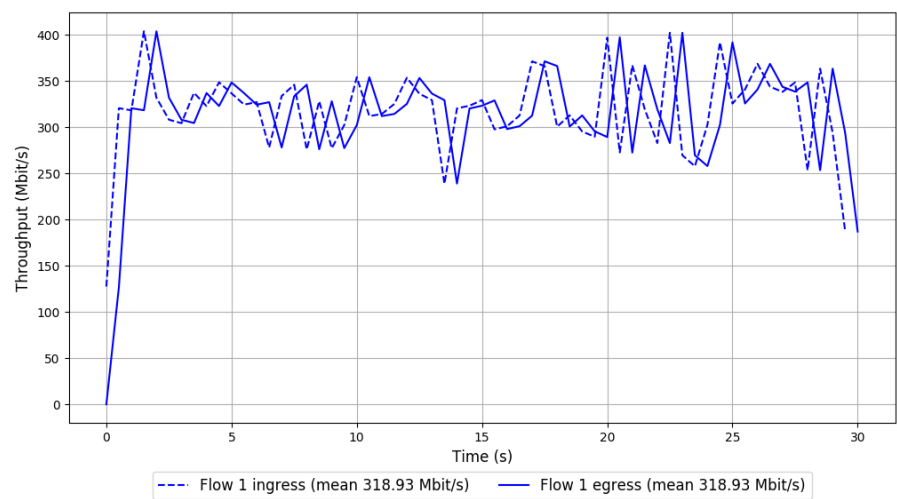


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-19 05:38:13
End at: 2019-01-19 05:38:43
Local clock offset: -0.26 ms
Remote clock offset: 3.096 ms

# Below is generated by plot.py at 2019-01-19 08:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.93 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 318.93 Mbit/s
95th percentile per-packet one-way delay: 1.119 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-19 06:07:57

End at: 2019-01-19 06:08:27

Local clock offset: -0.14 ms

Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2019-01-19 08:45:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 325.77 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.01%

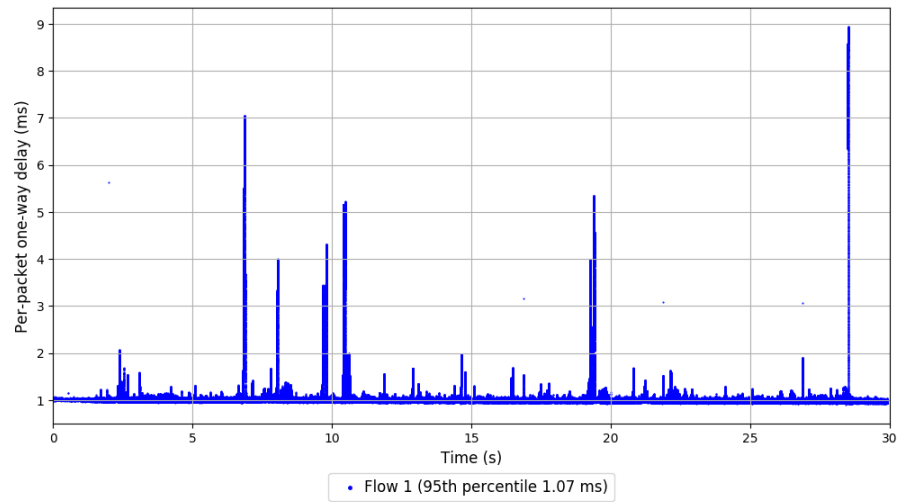
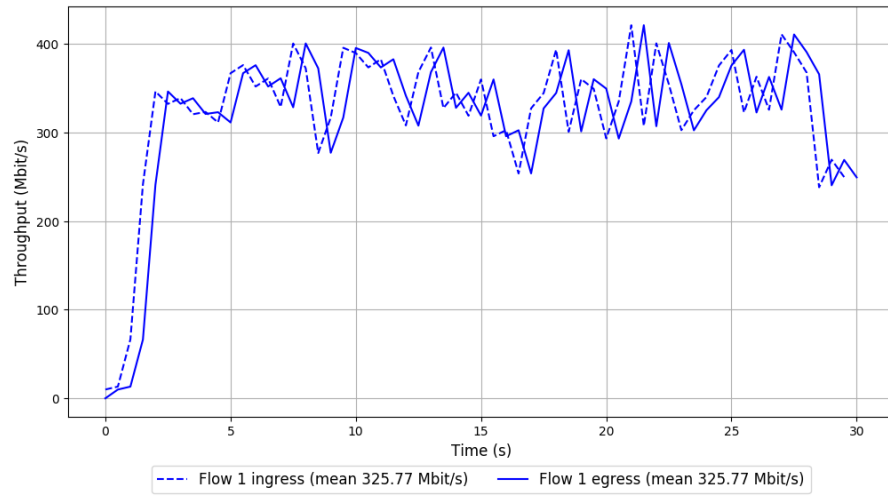
-- Flow 1:

Average throughput: 325.77 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.01%

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



Run 3: Statistics of PCC-Expr

Start at: 2019-01-19 06:37:33

End at: 2019-01-19 06:38:03

Local clock offset: 3.156 ms

Remote clock offset: -3.109 ms

# Below is generated by plot.py at 2019-01-19 08:45:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.23 Mbit/s

95th percentile per-packet one-way delay: 6.209 ms

Loss rate: 0.08%

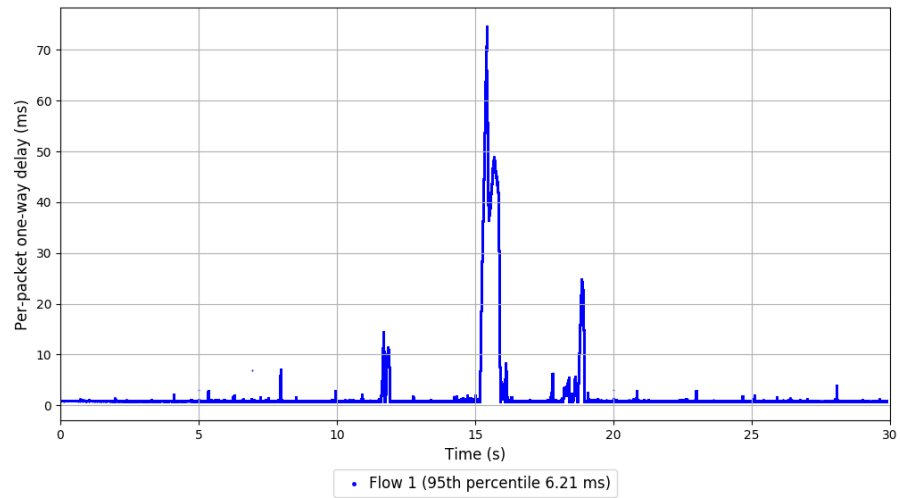
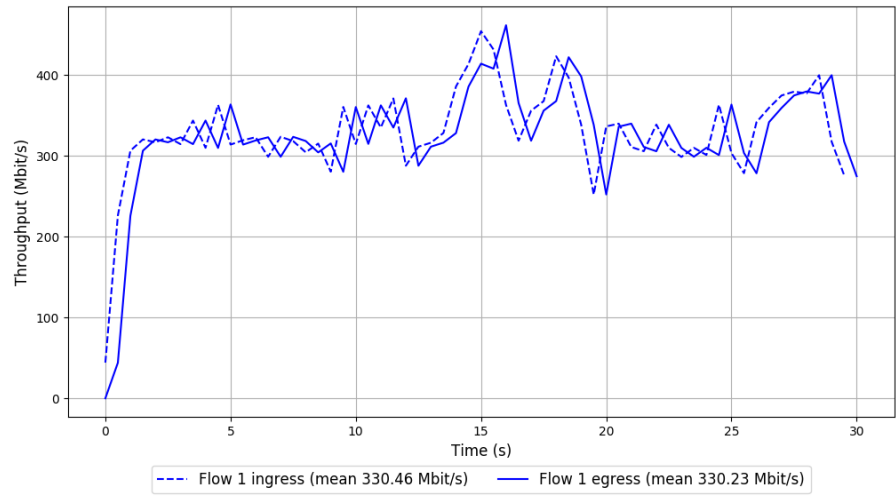
-- Flow 1:

Average throughput: 330.23 Mbit/s

95th percentile per-packet one-way delay: 6.209 ms

Loss rate: 0.08%

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

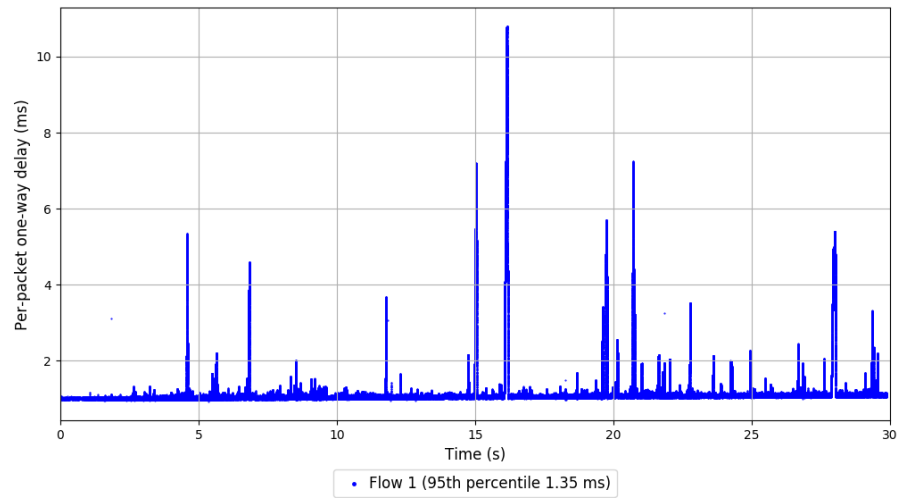
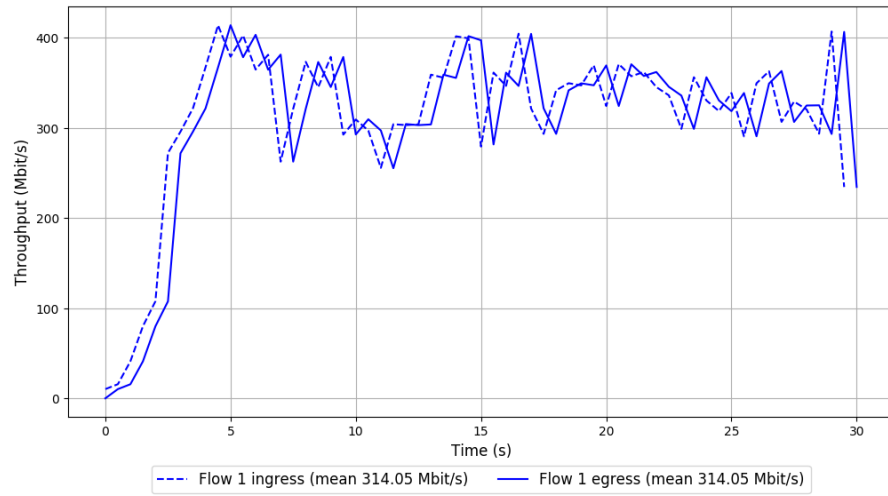


Run 4: Statistics of PCC-Expr

Start at: 2019-01-19 07:07:15  
End at: 2019-01-19 07:07:45  
Local clock offset: 4.664 ms  
Remote clock offset: -1.187 ms

# Below is generated by plot.py at 2019-01-19 08:45:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 314.05 Mbit/s  
95th percentile per-packet one-way delay: 1.354 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 314.05 Mbit/s  
95th percentile per-packet one-way delay: 1.354 ms  
Loss rate: 0.01%

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





Run 5: Statistics of PCC-Expr

Start at: 2019-01-19 07:37:04

End at: 2019-01-19 07:37:34

Local clock offset: -0.371 ms

Remote clock offset: 0.901 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 317.35 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.01%

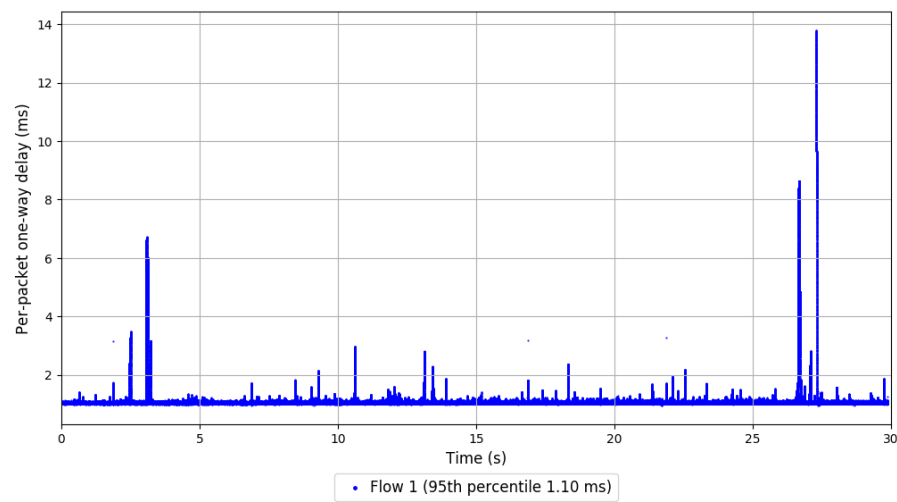
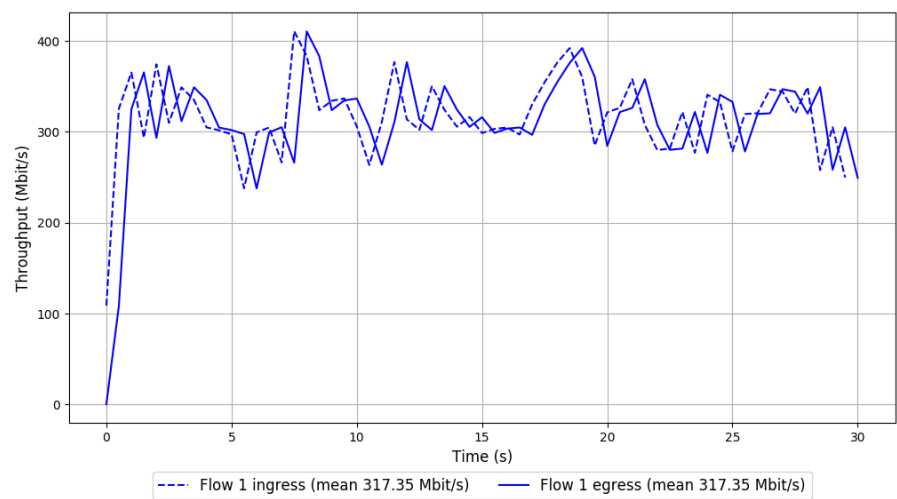
-- Flow 1:

Average throughput: 317.35 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-19 05:27:07

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

Local clock offset: -0.279 ms

Remote clock offset: 1.72 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.01%

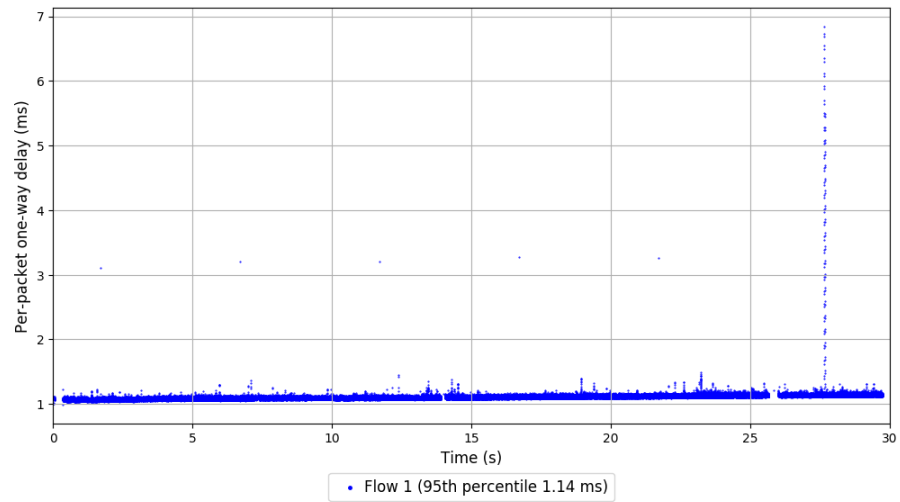
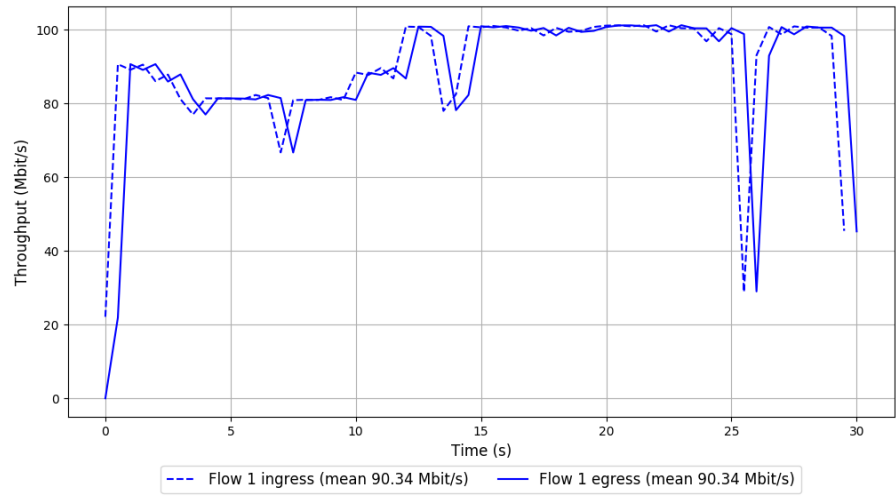
-- Flow 1:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.01%

# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

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

End at: 2019-01-19 05:57:24

Local clock offset: -0.201 ms

Remote clock offset: 1.525 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.01%

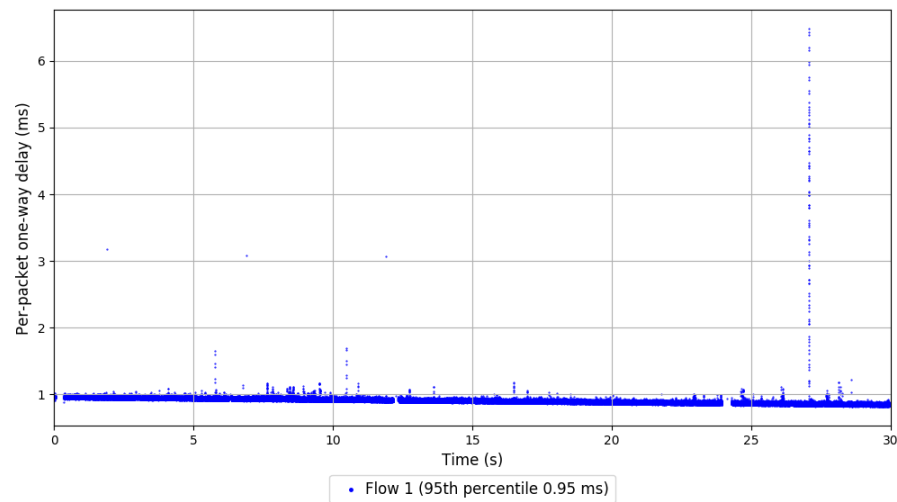
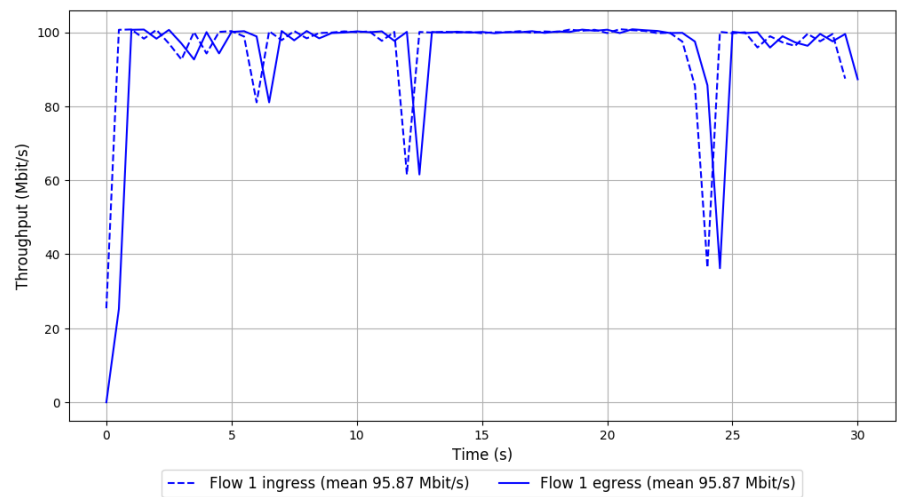
-- Flow 1:

Average throughput: 95.87 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-19 06:26:27

End at: 2019-01-19 06:26:57

Local clock offset: 1.766 ms

Remote clock offset: -1.155 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 0.713 ms

Loss rate: 0.01%

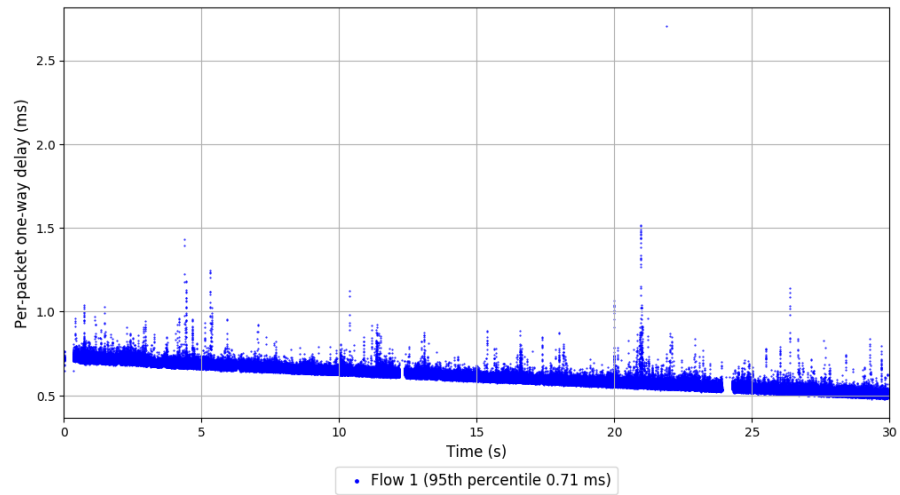
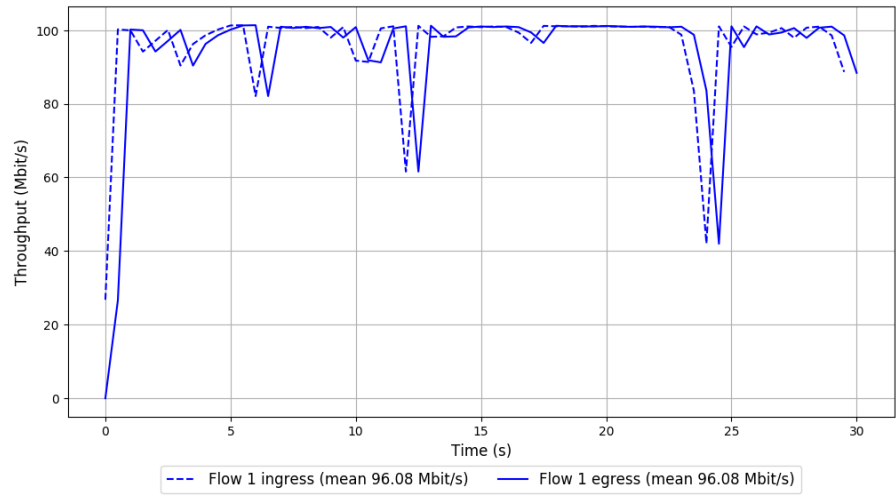
-- Flow 1:

Average throughput: 96.08 Mbit/s

95th percentile per-packet one-way delay: 0.713 ms

Loss rate: 0.01%

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



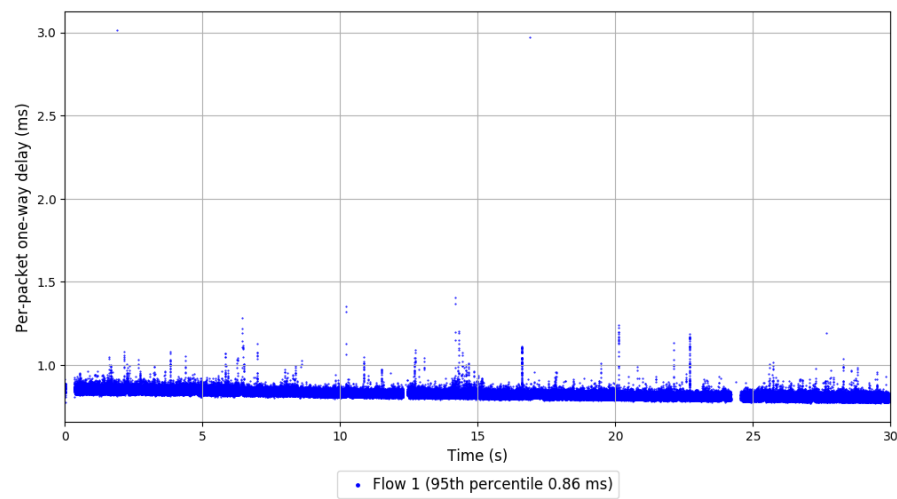
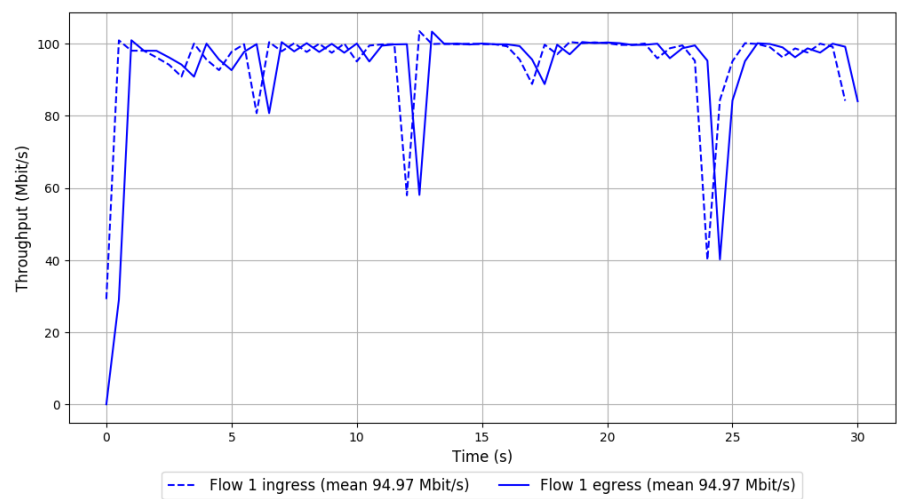


Run 4: Statistics of QUIC Cubic

Start at: 2019-01-19 06:56:10  
End at: 2019-01-19 06:56:40  
Local clock offset: 4.194 ms  
Remote clock offset: -4.382 ms

# Below is generated by plot.py at 2019-01-19 08:47:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.97 Mbit/s  
95th percentile per-packet one-way delay: 0.860 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 94.97 Mbit/s  
95th percentile per-packet one-way delay: 0.860 ms  
Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-19 07:25:55

End at: 2019-01-19 07:26:25

Local clock offset: 2.076 ms

Remote clock offset: 1.181 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 1.350 ms

Loss rate: 0.01%

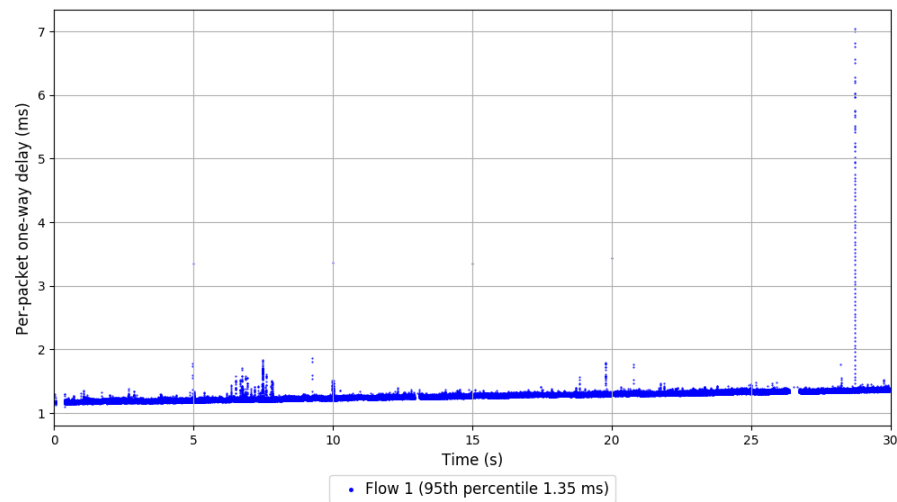
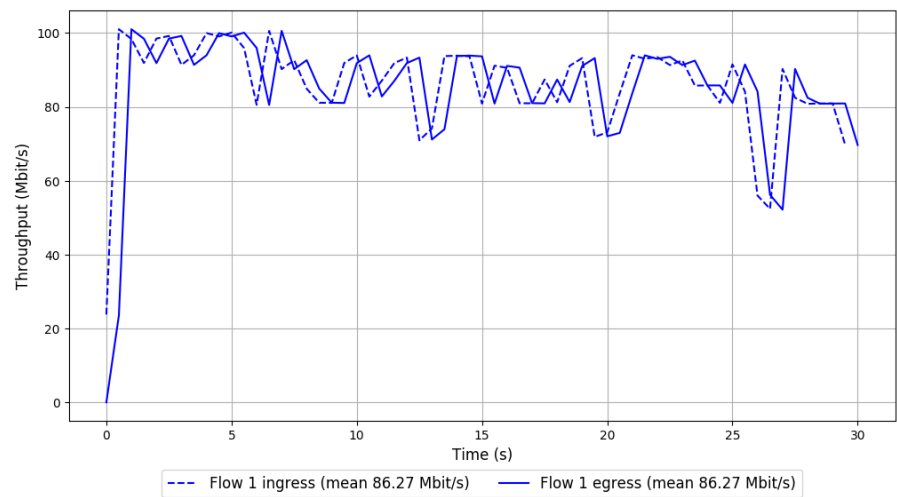
-- Flow 1:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 1.350 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-01-19 05:28:23

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

Local clock offset: -0.277 ms

Remote clock offset: 1.979 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.13%

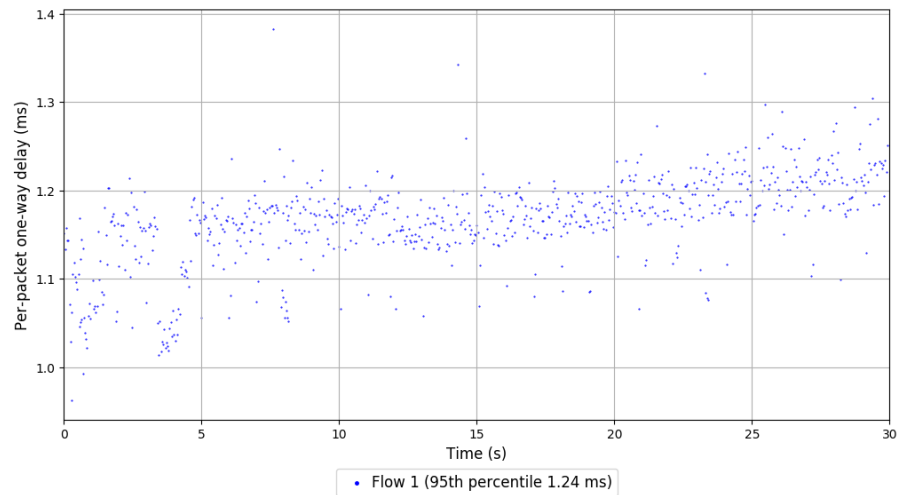
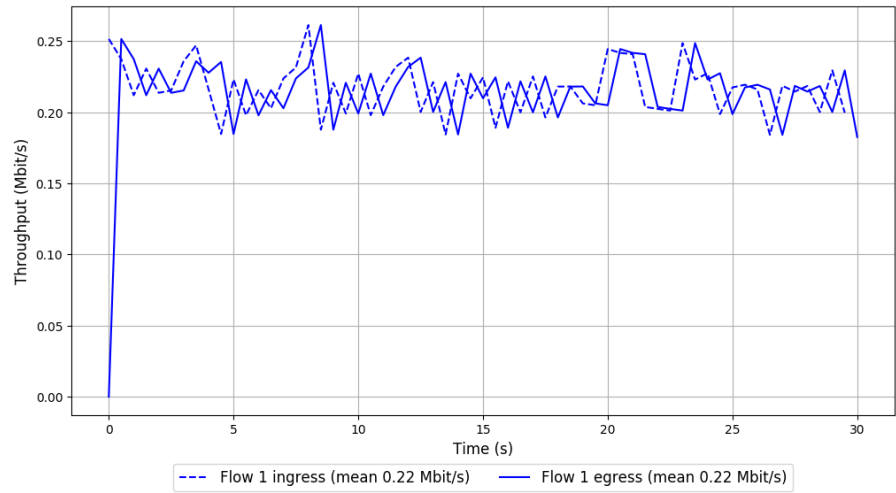
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.13%

## Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-19 05:58:10

End at: 2019-01-19 05:58:40

Local clock offset: -0.184 ms

Remote clock offset: 1.374 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.939 ms

Loss rate: 0.00%

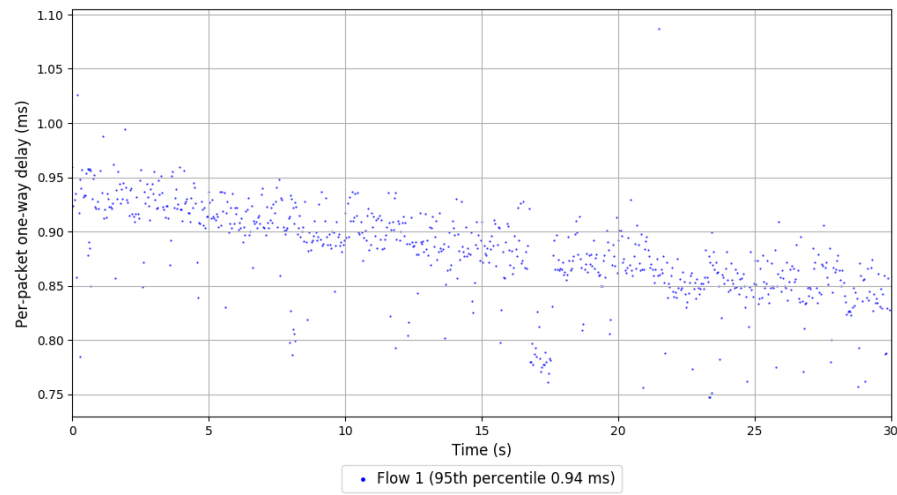
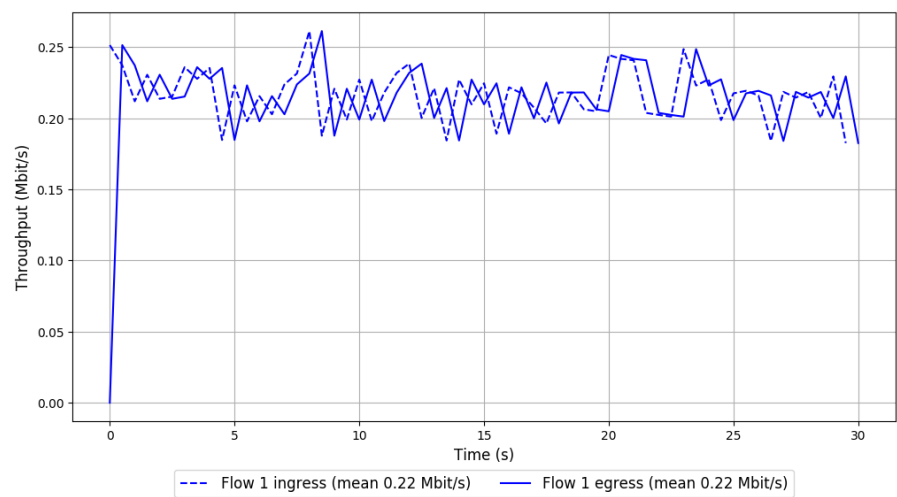
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.939 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



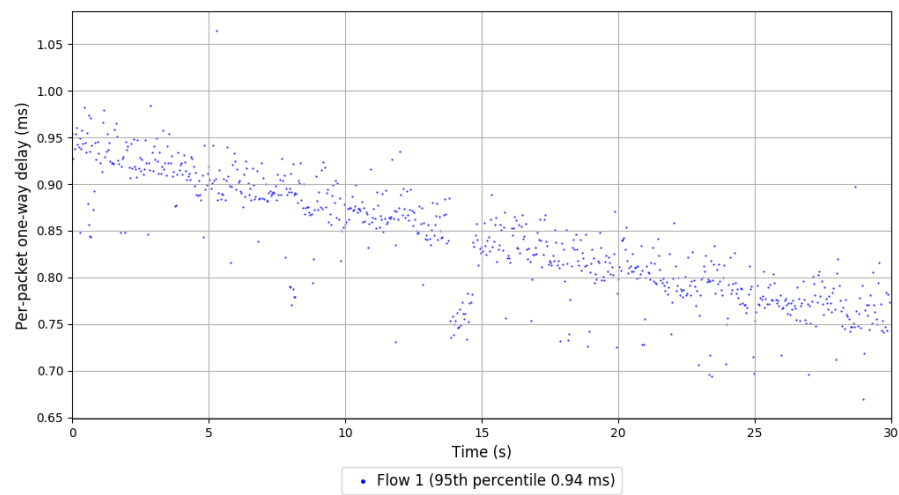
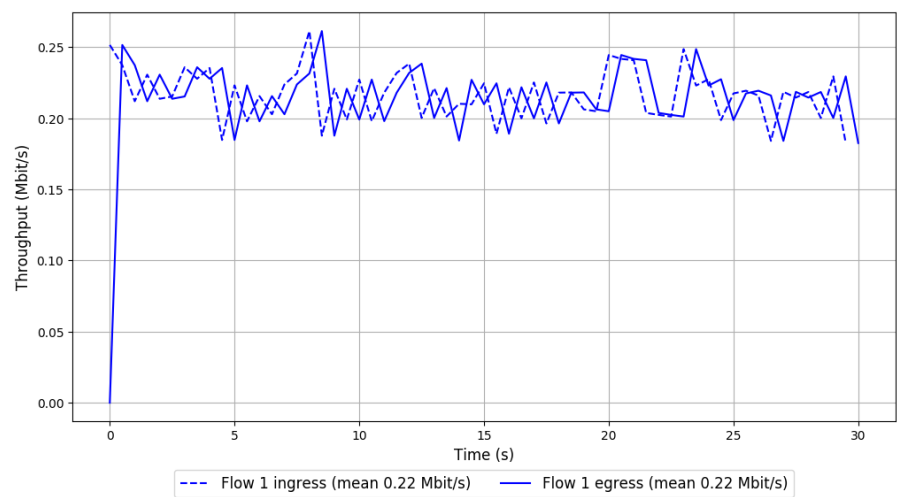


Run 3: Statistics of SCReAM

Start at: 2019-01-19 06:27:43  
End at: 2019-01-19 06:28:13  
Local clock offset: 1.996 ms  
Remote clock offset: -1.571 ms

# Below is generated by plot.py at 2019-01-19 08:47:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.939 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.939 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-01-19 06:57:26

End at: 2019-01-19 06:57:56

Local clock offset: 4.263 ms

Remote clock offset: -4.53 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

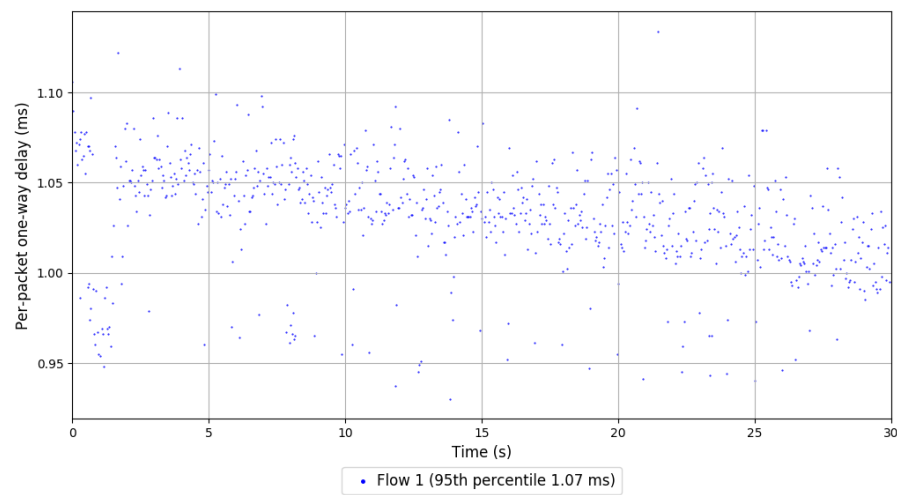
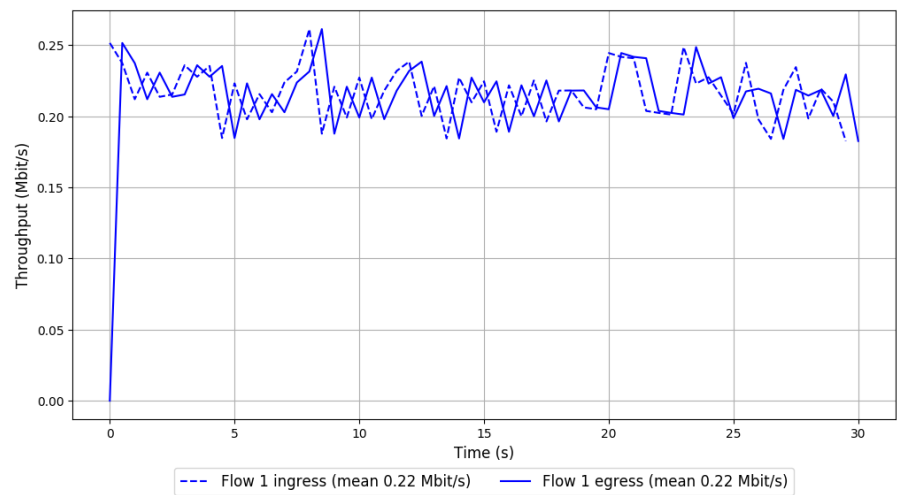
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-01-19 07:27:10

End at: 2019-01-19 07:27:40

Local clock offset: 1.653 ms

Remote clock offset: 1.301 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.375 ms

Loss rate: 0.00%

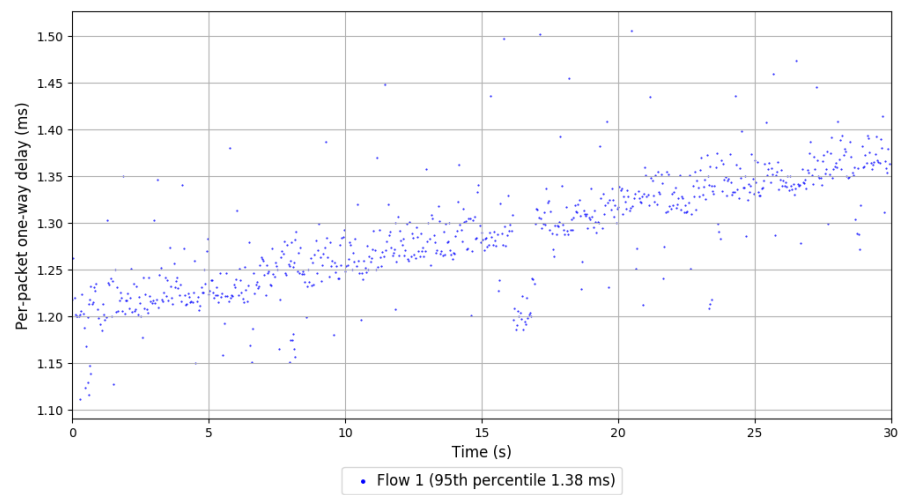
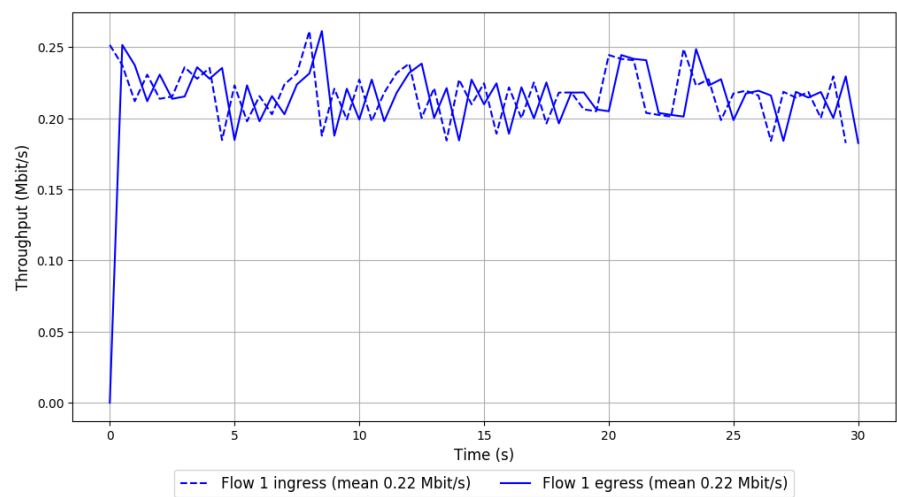
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.375 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

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

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

Local clock offset: -0.264 ms

Remote clock offset: 2.542 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.00%

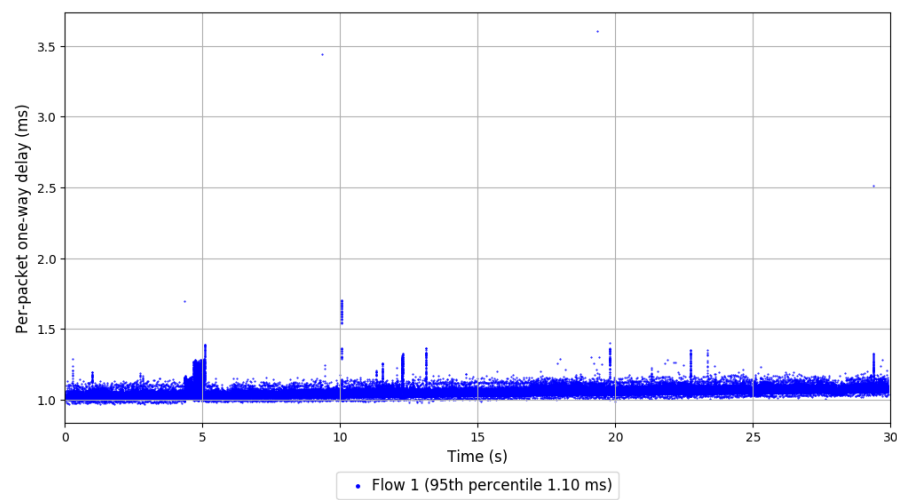
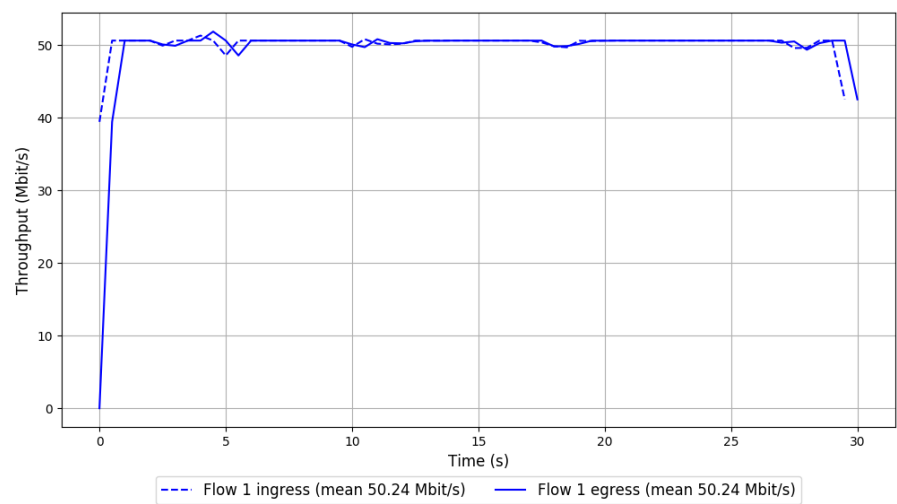
-- Flow 1:

Average throughput: 50.24 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



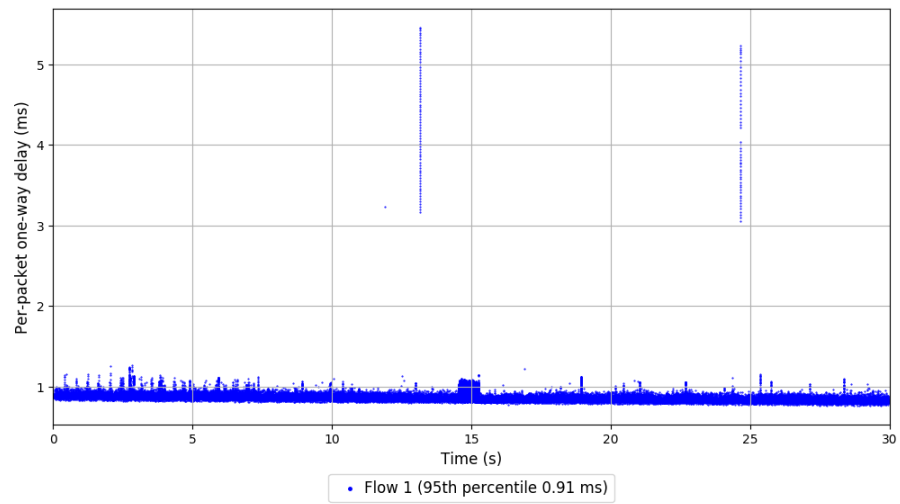
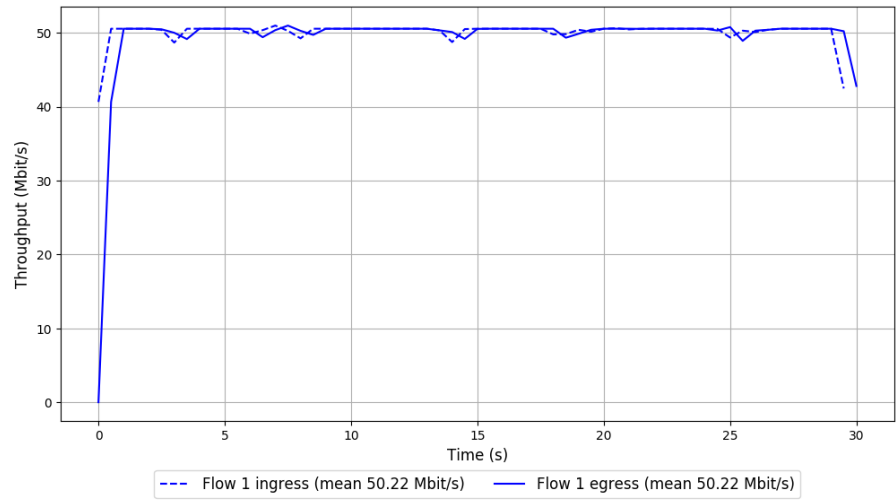


Run 2: Statistics of Sprout

Start at: 2019-01-19 06:02:12  
End at: 2019-01-19 06:02:42  
Local clock offset: -0.159 ms  
Remote clock offset: 0.716 ms

# Below is generated by plot.py at 2019-01-19 08:47:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.22 Mbit/s  
95th percentile per-packet one-way delay: 0.913 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.22 Mbit/s  
95th percentile per-packet one-way delay: 0.913 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link

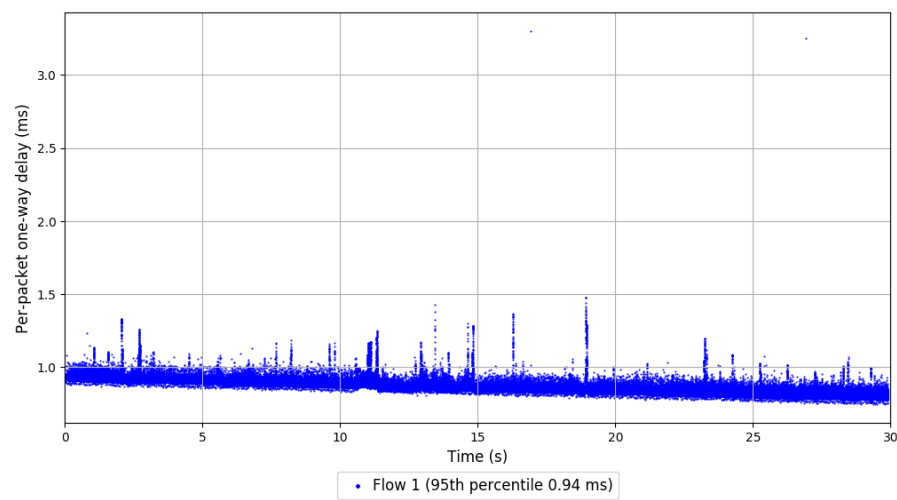
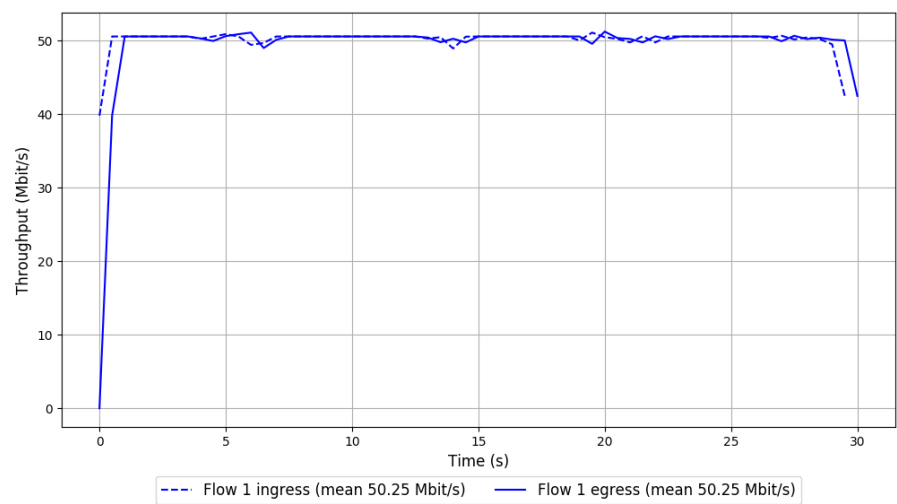


Run 3: Statistics of Sprout

Start at: 2019-01-19 06:31:46  
End at: 2019-01-19 06:32:16  
Local clock offset: 2.601 ms  
Remote clock offset: -2.362 ms

# Below is generated by plot.py at 2019-01-19 08:47:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 0.945 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 0.945 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

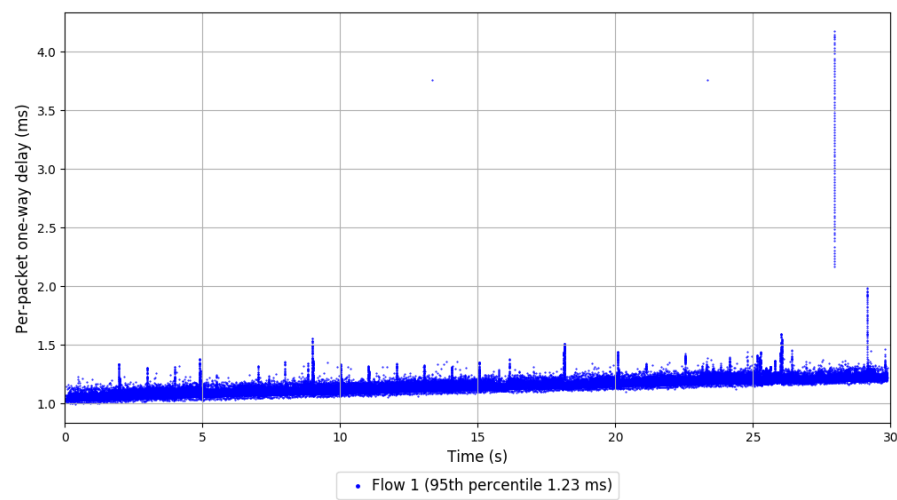
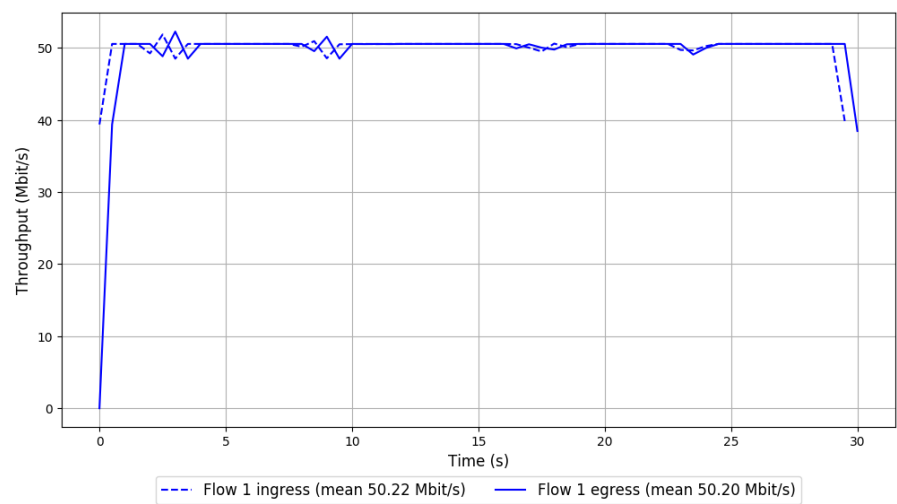


Run 4: Statistics of Sprout

Start at: 2019-01-19 07:01:31  
End at: 2019-01-19 07:02:01  
Local clock offset: 4.422 ms  
Remote clock offset: -3.032 ms

# Below is generated by plot.py at 2019-01-19 08:47:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.20 Mbit/s  
95th percentile per-packet one-way delay: 1.232 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 50.20 Mbit/s  
95th percentile per-packet one-way delay: 1.232 ms  
Loss rate: 0.05%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-01-19 07:31:15

End at: 2019-01-19 07:31:45

Local clock offset: 0.628 ms

Remote clock offset: 1.581 ms

# Below is generated by plot.py at 2019-01-19 08:47:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.00%

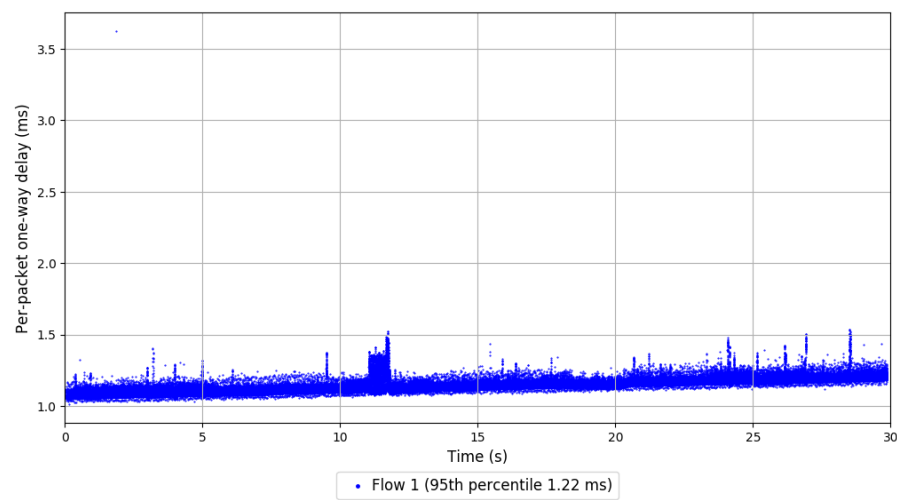
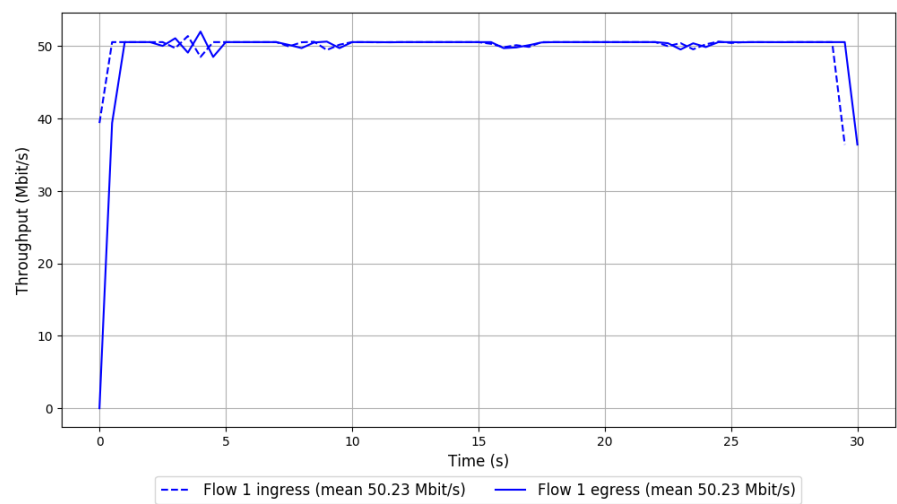
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



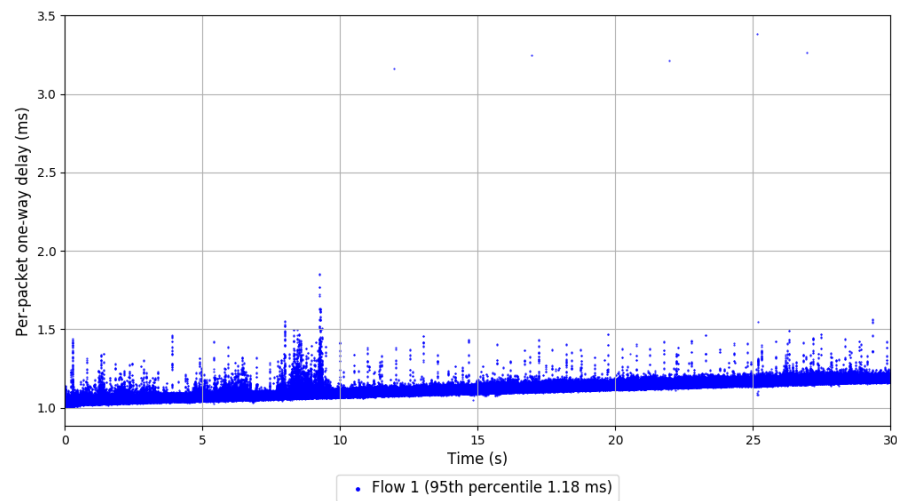
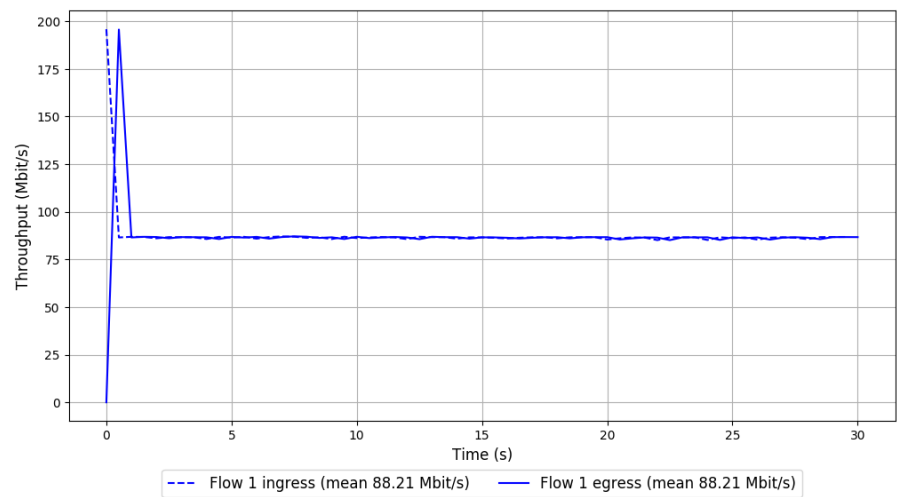


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-19 05:20:02
End at: 2019-01-19 05:20:32
Local clock offset: -0.411 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-01-19 08:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.01%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-19 05:49:45

End at: 2019-01-19 05:50:15

Local clock offset: -0.325 ms

Remote clock offset: 3.978 ms

# Below is generated by plot.py at 2019-01-19 08:47:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 0.915 ms

Loss rate: 0.00%

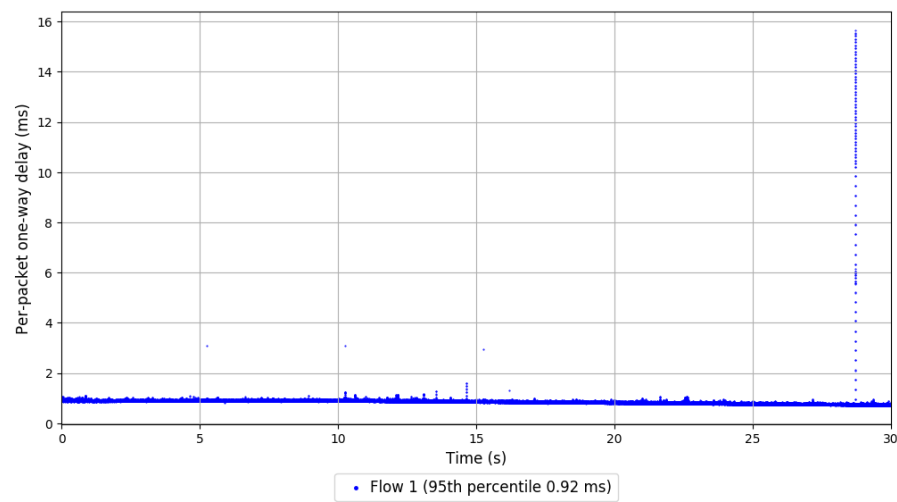
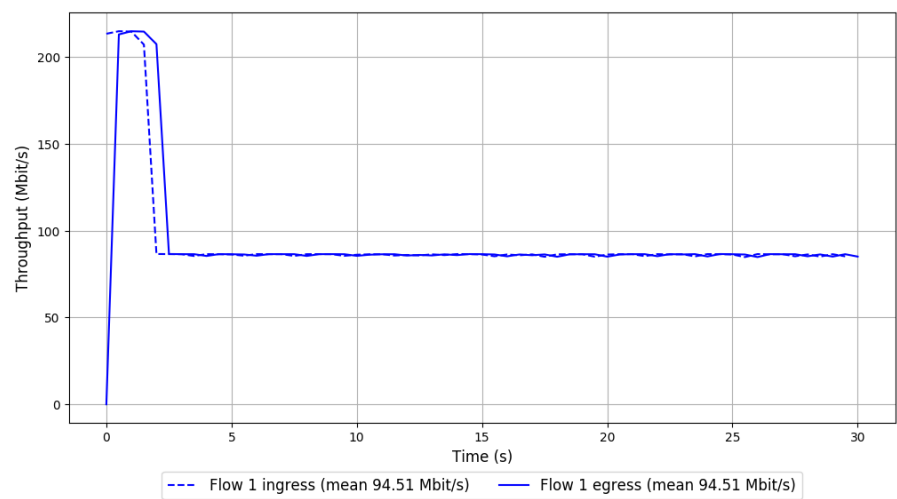
-- Flow 1:

Average throughput: 94.51 Mbit/s

95th percentile per-packet one-way delay: 0.915 ms

Loss rate: 0.00%

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

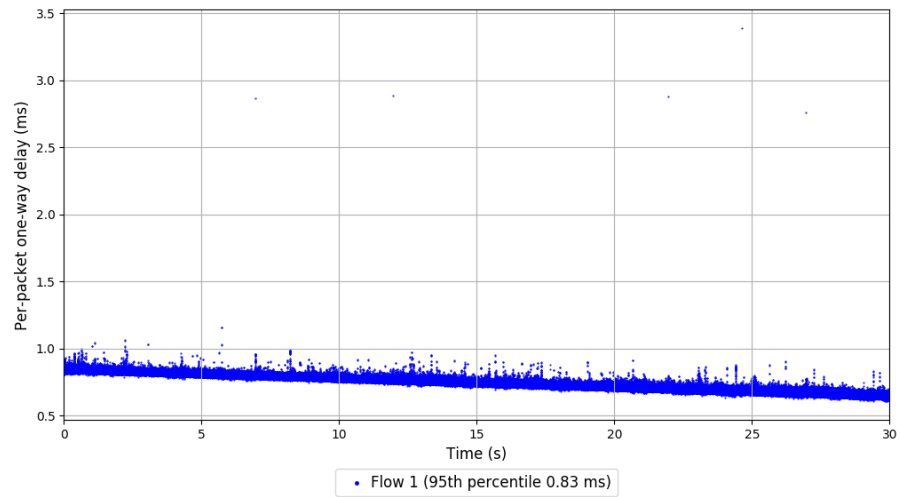
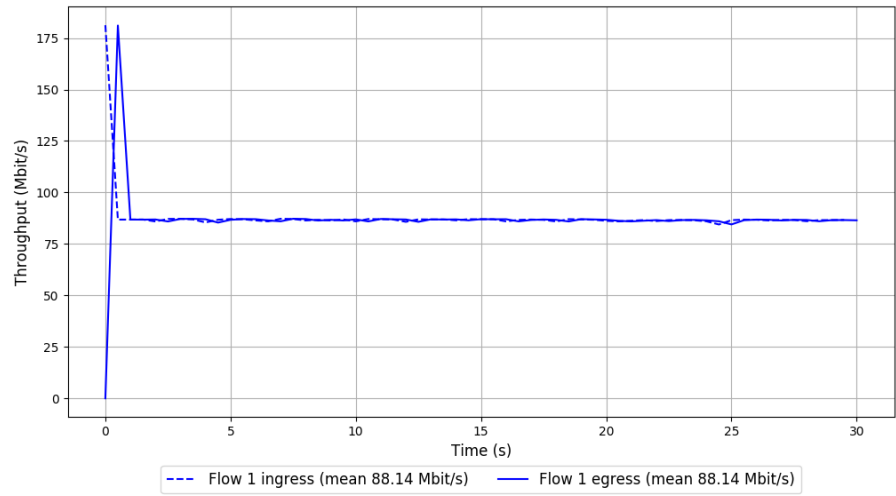


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-19 06:19:25  
End at: 2019-01-19 06:19:55  
Local clock offset: -0.179 ms  
Remote clock offset: -0.541 ms

# Below is generated by plot.py at 2019-01-19 08:47:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.14 Mbit/s  
95th percentile per-packet one-way delay: 0.834 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 88.14 Mbit/s  
95th percentile per-packet one-way delay: 0.834 ms  
Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-19 06:49:05

End at: 2019-01-19 06:49:35

Local clock offset: 3.886 ms

Remote clock offset: -4.052 ms

# Below is generated by plot.py at 2019-01-19 08:47:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.58 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.01%

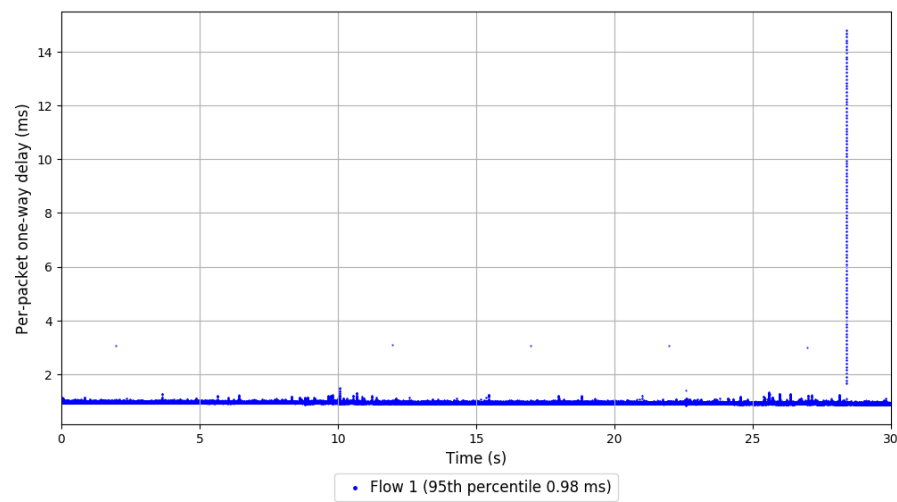
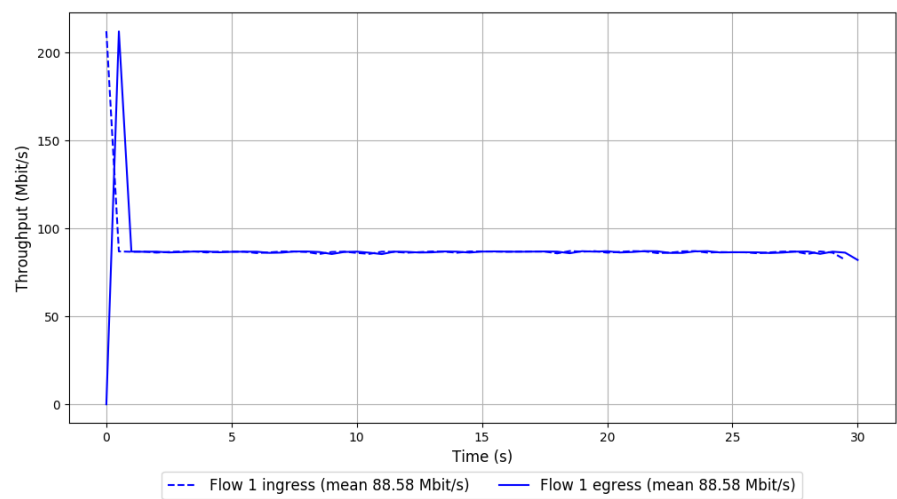
-- Flow 1:

Average throughput: 88.58 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.01%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-19 07:18:49

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

Local clock offset: 5.104 ms

Remote clock offset: 0.601 ms

# Below is generated by plot.py at 2019-01-19 08:47:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.00%

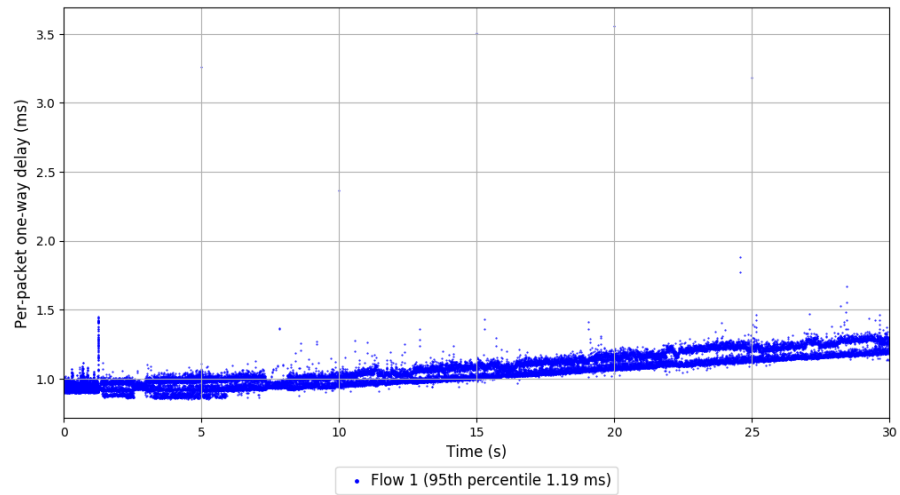
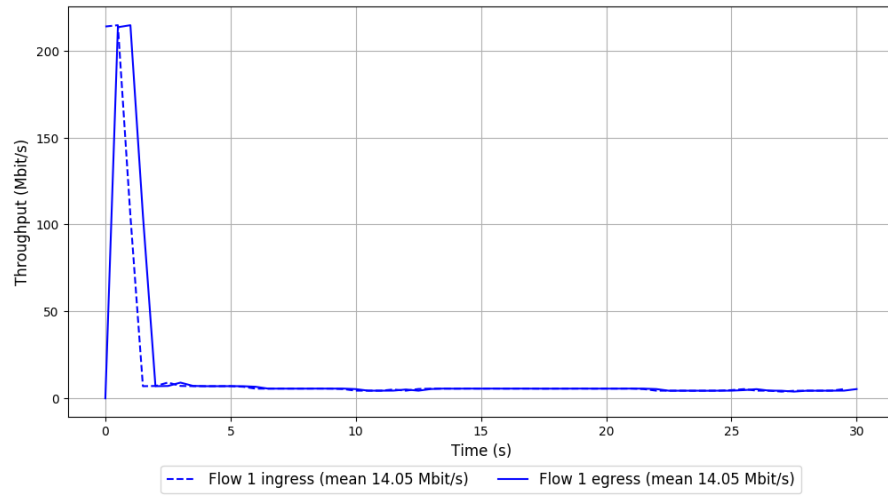
-- Flow 1:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-01-19 05:42:31

End at: 2019-01-19 05:43:01

Local clock offset: -0.292 ms

Remote clock offset: 3.418 ms

# Below is generated by plot.py at 2019-01-19 08:48:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.73 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.00%

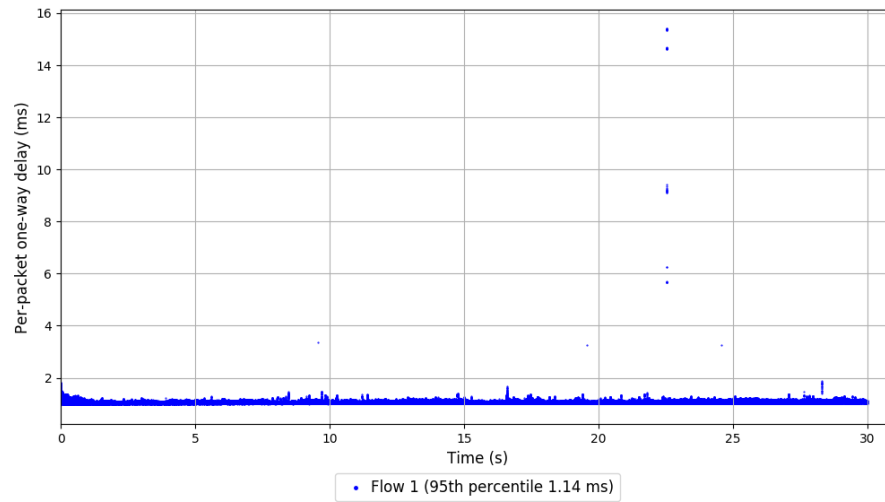
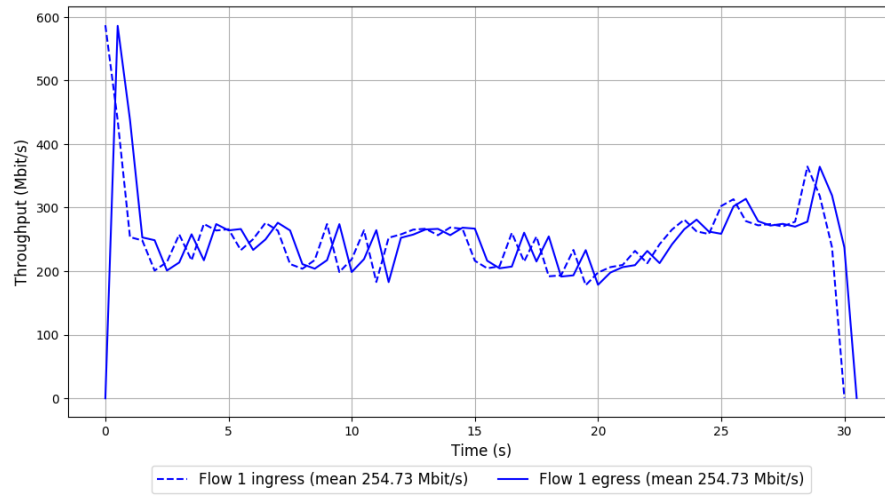
-- Flow 1:

Average throughput: 254.73 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.00%

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

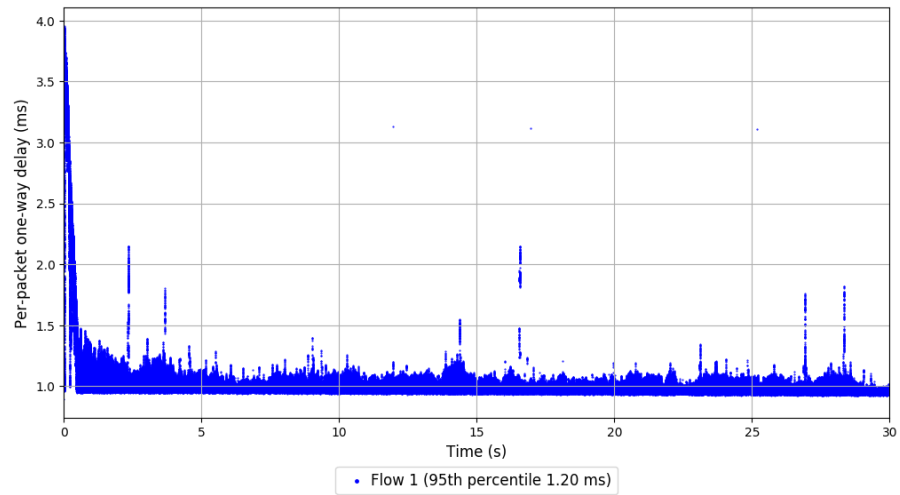
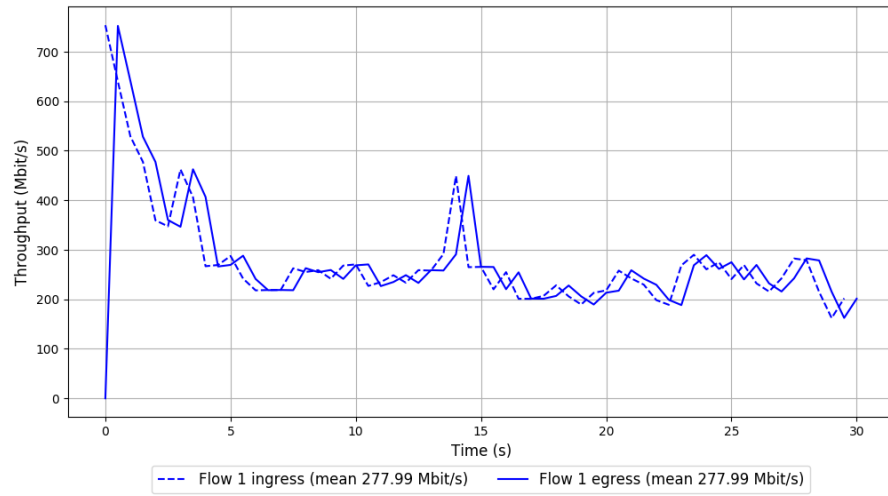


Run 2: Statistics of TCP Vegas

Start at: 2019-01-19 06:12:13  
End at: 2019-01-19 06:12:43  
Local clock offset: -0.155 ms  
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2019-01-19 08:48:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 277.99 Mbit/s  
95th percentile per-packet one-way delay: 1.202 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 277.99 Mbit/s  
95th percentile per-packet one-way delay: 1.202 ms  
Loss rate: 0.00%

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

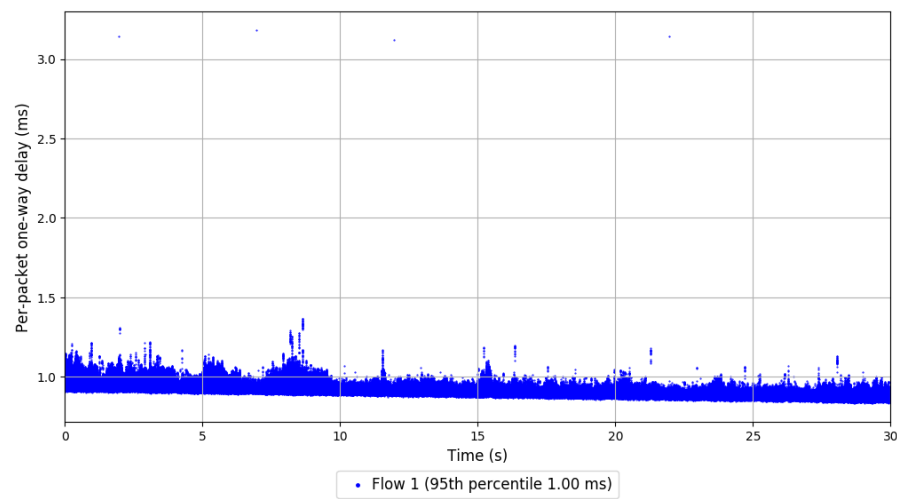
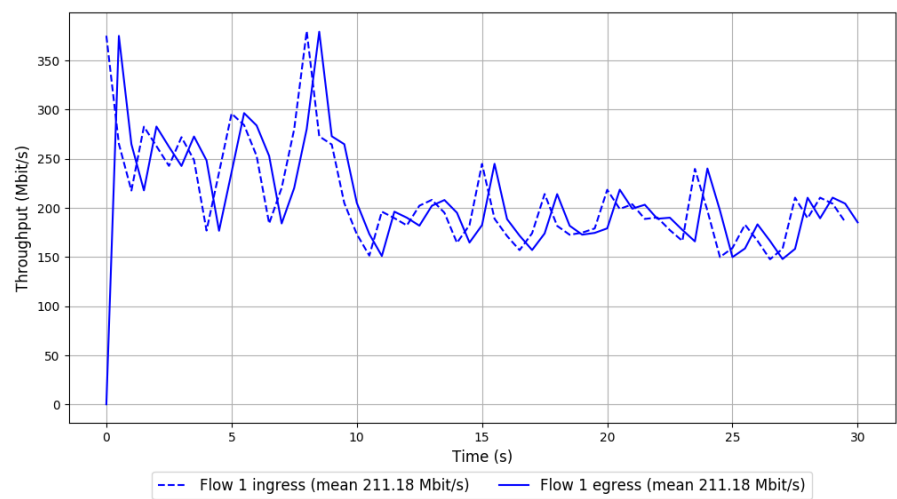


Run 3: Statistics of TCP Vegas

Start at: 2019-01-19 06:41:52  
End at: 2019-01-19 06:42:22  
Local clock offset: 3.48 ms  
Remote clock offset: -3.521 ms

# Below is generated by plot.py at 2019-01-19 08:48:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 211.18 Mbit/s  
95th percentile per-packet one-way delay: 1.003 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 211.18 Mbit/s  
95th percentile per-packet one-way delay: 1.003 ms  
Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



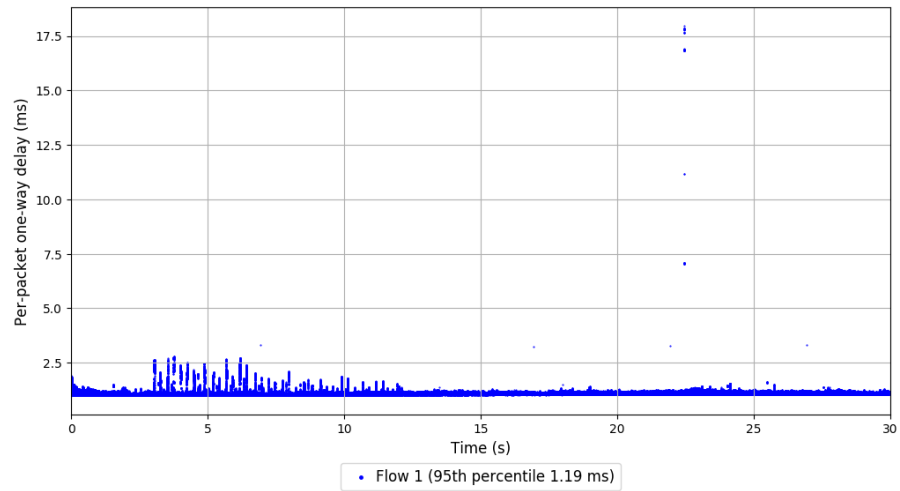
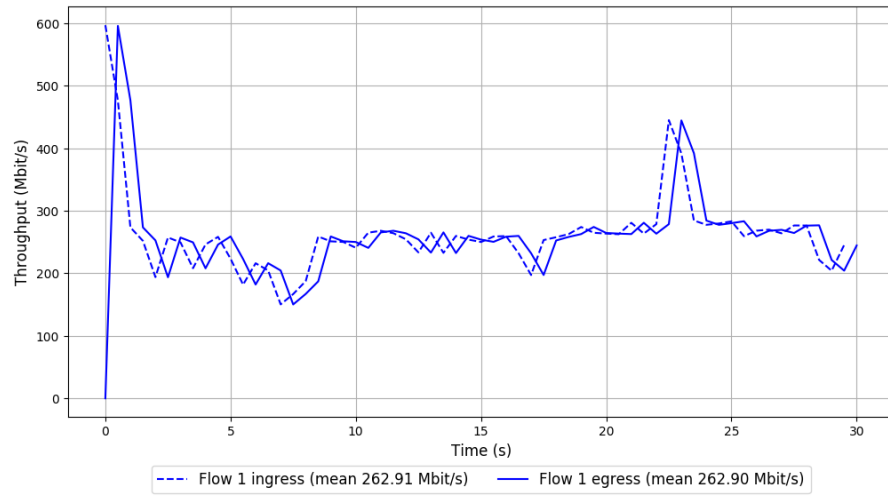


Run 4: Statistics of TCP Vegas

Start at: 2019-01-19 07:11:34  
End at: 2019-01-19 07:12:04  
Local clock offset: 4.831 ms  
Remote clock offset: -0.388 ms

# Below is generated by plot.py at 2019-01-19 08:50:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 262.90 Mbit/s  
95th percentile per-packet one-way delay: 1.189 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 262.90 Mbit/s  
95th percentile per-packet one-way delay: 1.189 ms  
Loss rate: 0.01%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-01-19 07:41:21

End at: 2019-01-19 07:41:51

Local clock offset: -0.847 ms

Remote clock offset: 0.61 ms

# Below is generated by plot.py at 2019-01-19 08:50:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 256.43 Mbit/s

95th percentile per-packet one-way delay: 1.183 ms

Loss rate: 0.01%

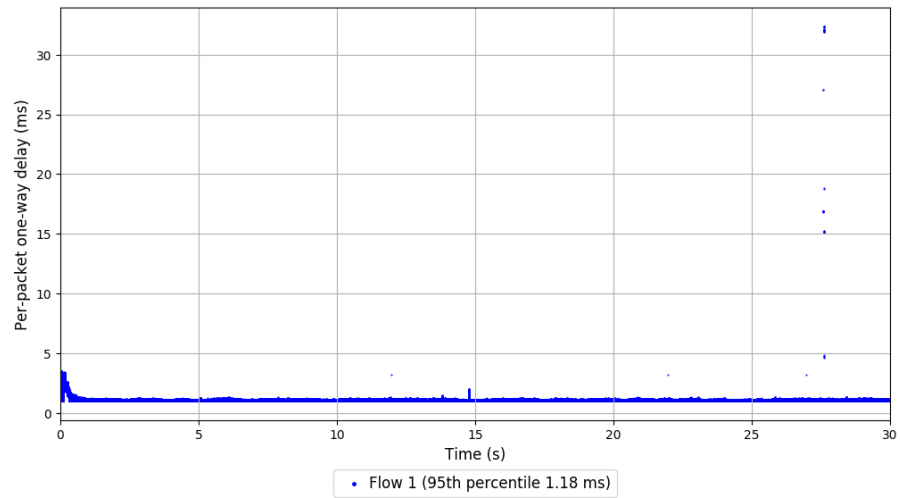
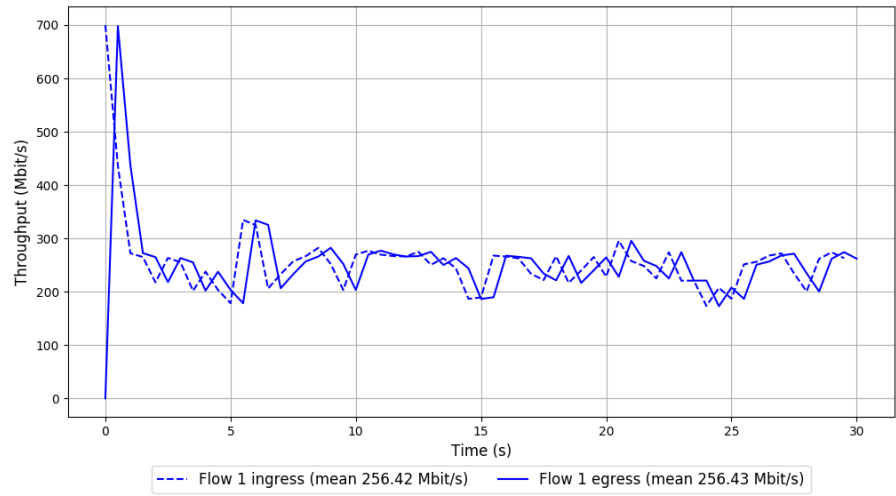
-- Flow 1:

Average throughput: 256.43 Mbit/s

95th percentile per-packet one-way delay: 1.183 ms

Loss rate: 0.01%

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



Run 1: Statistics of Verus

Start at: 2019-01-19 05:43:52

End at: 2019-01-19 05:44:22

Local clock offset: -0.283 ms

Remote clock offset: 3.517 ms

# Below is generated by plot.py at 2019-01-19 08:50:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 297.03 Mbit/s

95th percentile per-packet one-way delay: 2.651 ms

Loss rate: 0.01%

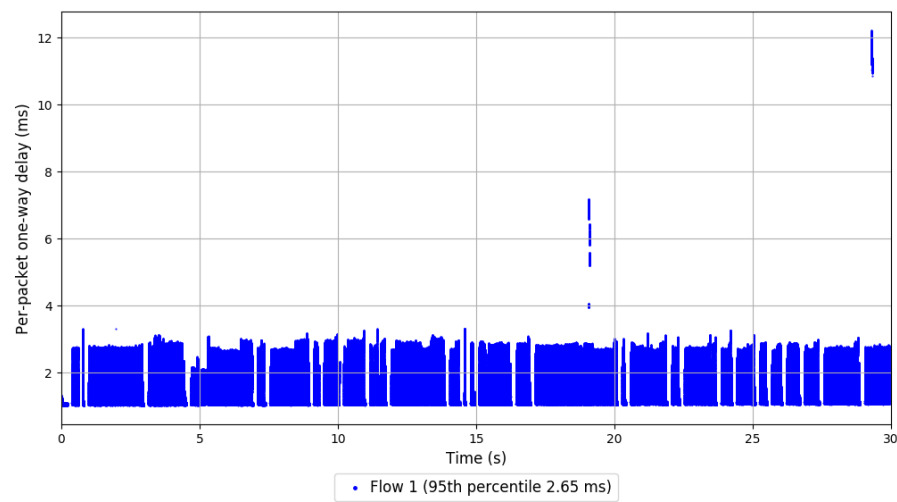
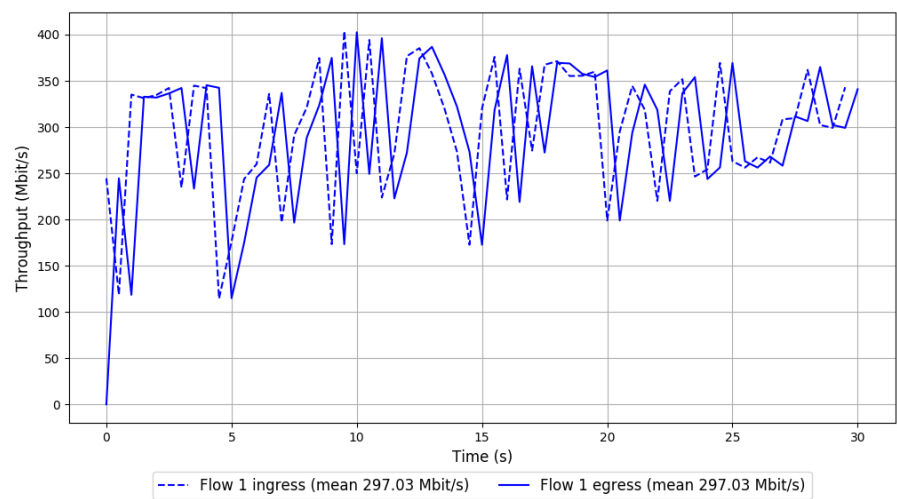
-- Flow 1:

Average throughput: 297.03 Mbit/s

95th percentile per-packet one-way delay: 2.651 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link

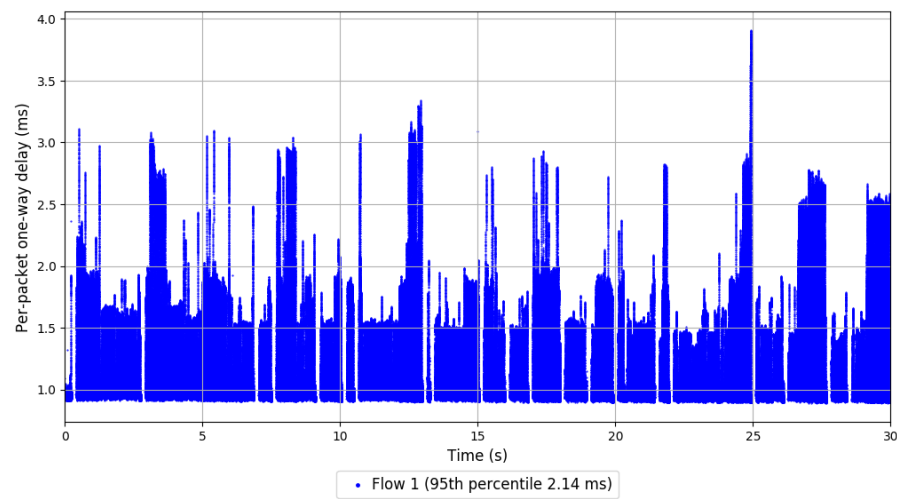
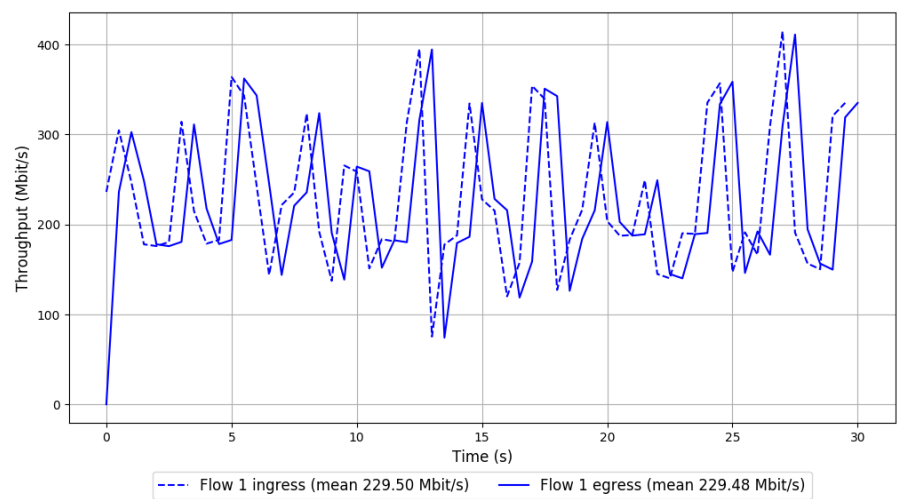


Run 2: Statistics of Verus

Start at: 2019-01-19 06:13:34  
End at: 2019-01-19 06:14:04  
Local clock offset: -0.15 ms  
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2019-01-19 08:50:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 229.48 Mbit/s  
95th percentile per-packet one-way delay: 2.141 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 229.48 Mbit/s  
95th percentile per-packet one-way delay: 2.141 ms  
Loss rate: 0.01%

Run 2: Report of Verus — Data Link



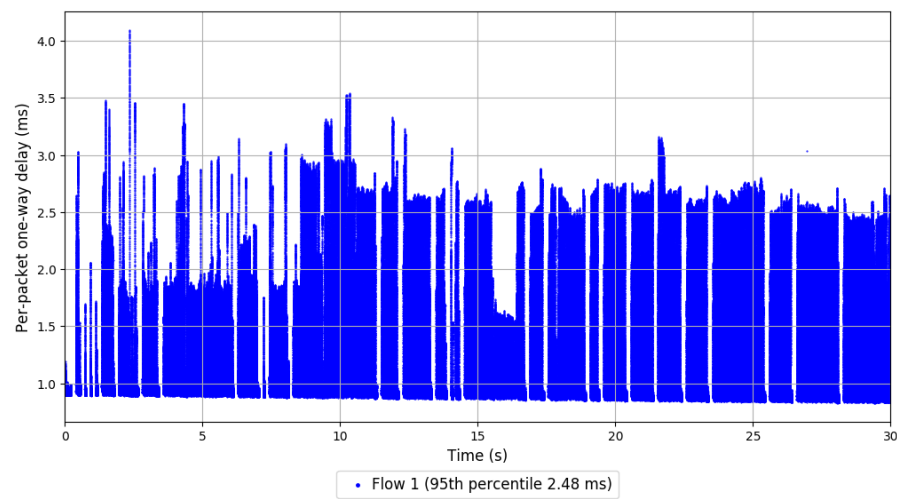
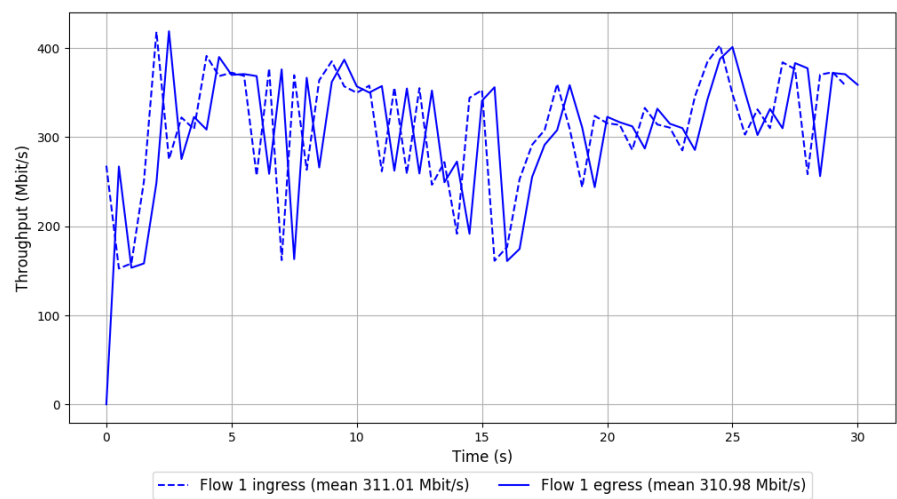


Run 3: Statistics of Verus

Start at: 2019-01-19 06:43:11  
End at: 2019-01-19 06:43:41  
Local clock offset: 3.537 ms  
Remote clock offset: -3.649 ms

# Below is generated by plot.py at 2019-01-19 08:50:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 310.98 Mbit/s  
95th percentile per-packet one-way delay: 2.479 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 310.98 Mbit/s  
95th percentile per-packet one-way delay: 2.479 ms  
Loss rate: 0.01%

Run 3: Report of Verus — Data Link

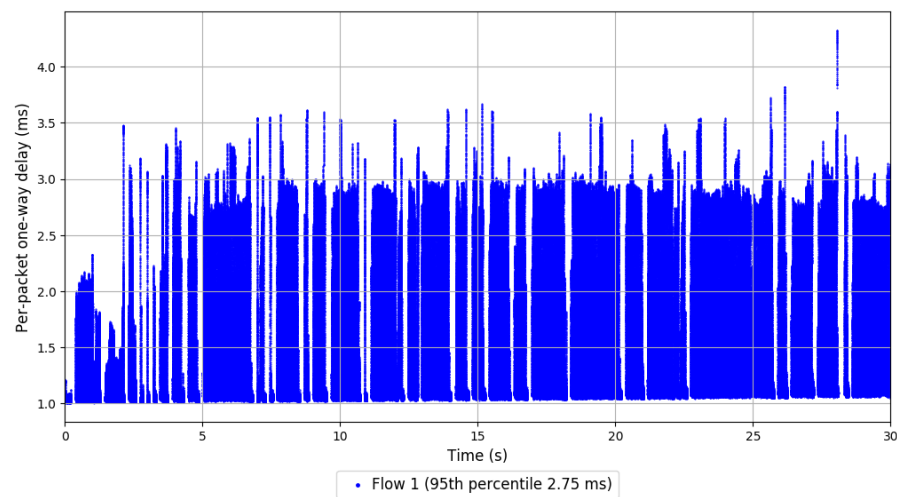
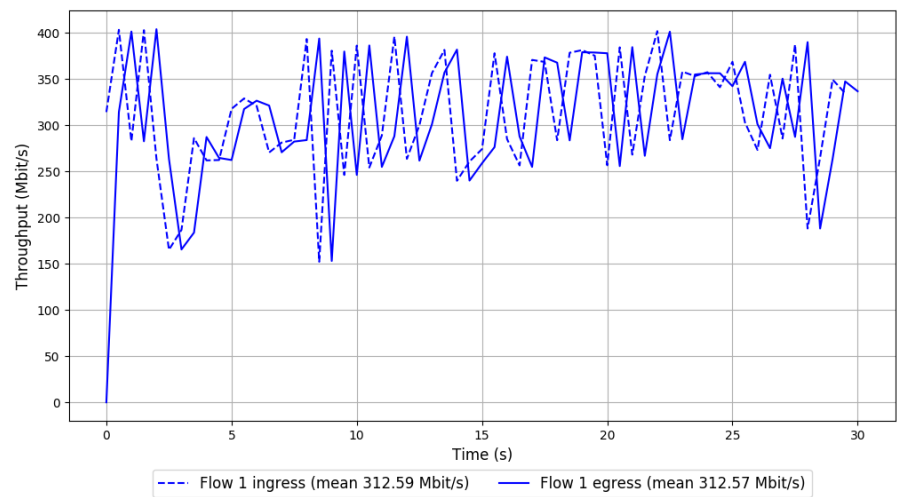


Run 4: Statistics of Verus

Start at: 2019-01-19 07:12:55  
End at: 2019-01-19 07:13:25  
Local clock offset: 4.886 ms  
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2019-01-19 08:51:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 312.57 Mbit/s  
95th percentile per-packet one-way delay: 2.755 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 312.57 Mbit/s  
95th percentile per-packet one-way delay: 2.755 ms  
Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-19 07:42:42

End at: 2019-01-19 07:43:12

Local clock offset: -1.004 ms

Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2019-01-19 08:51:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 304.34 Mbit/s

95th percentile per-packet one-way delay: 2.597 ms

Loss rate: 0.01%

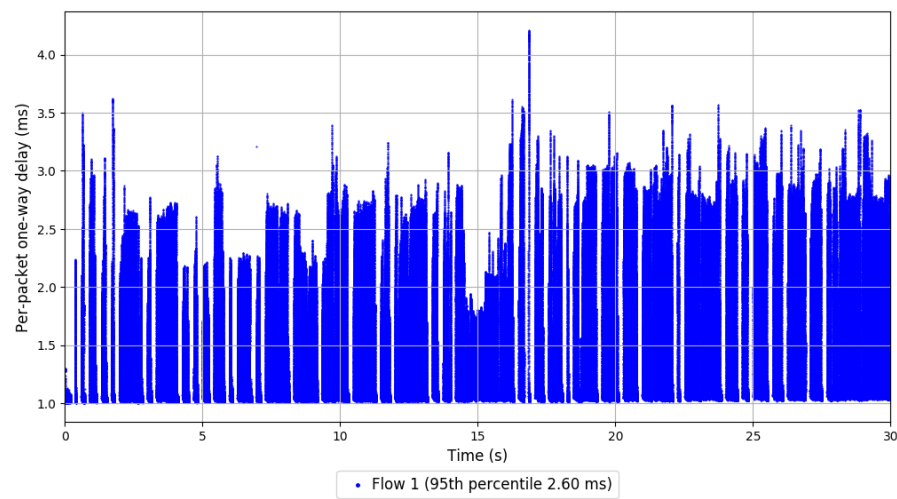
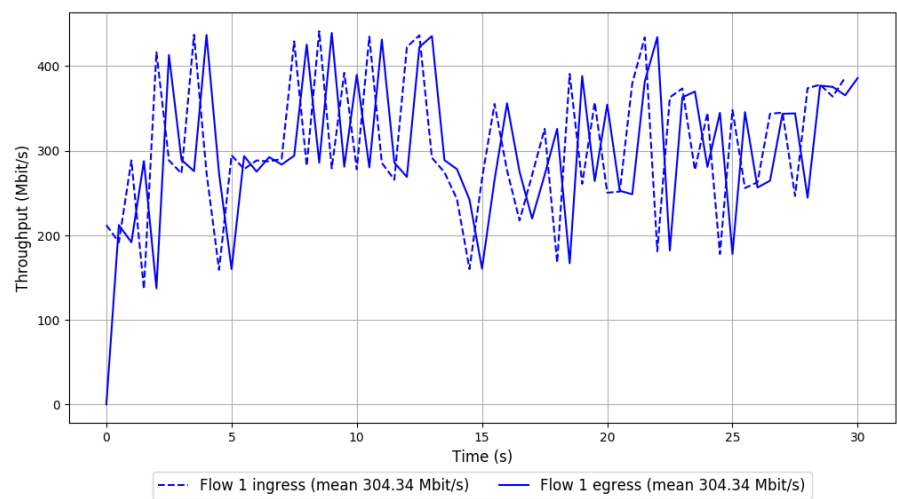
-- Flow 1:

Average throughput: 304.34 Mbit/s

95th percentile per-packet one-way delay: 2.597 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-19 05:41:06

End at: 2019-01-19 05:41:36

Local clock offset: -0.298 ms

Remote clock offset: 3.335 ms

# Below is generated by plot.py at 2019-01-19 08:52:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 294.28 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.01%

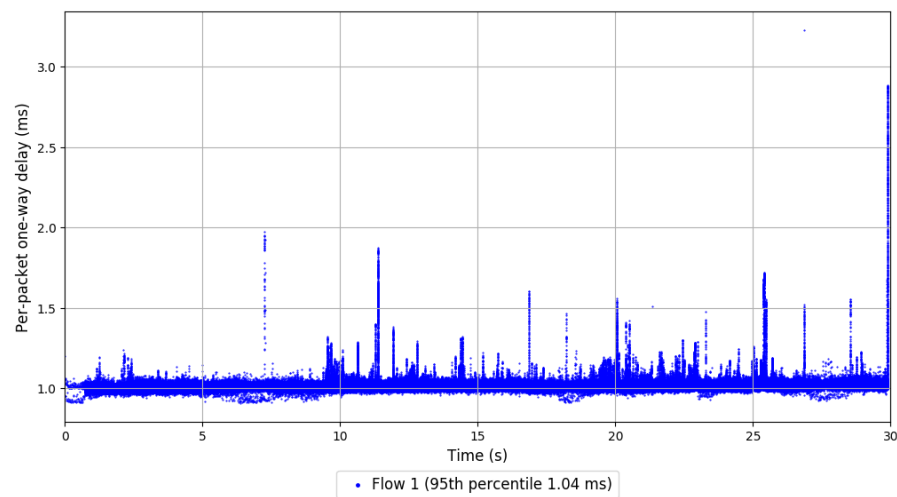
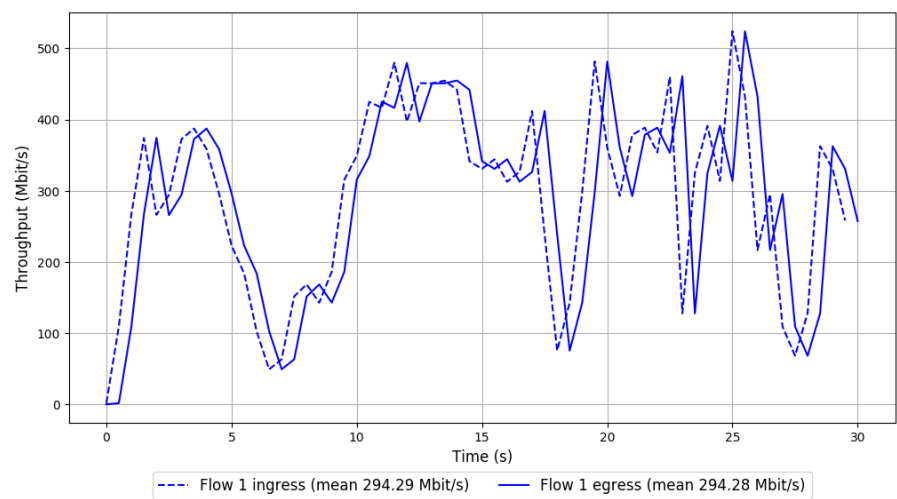
-- Flow 1:

Average throughput: 294.28 Mbit/s

95th percentile per-packet one-way delay: 1.040 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



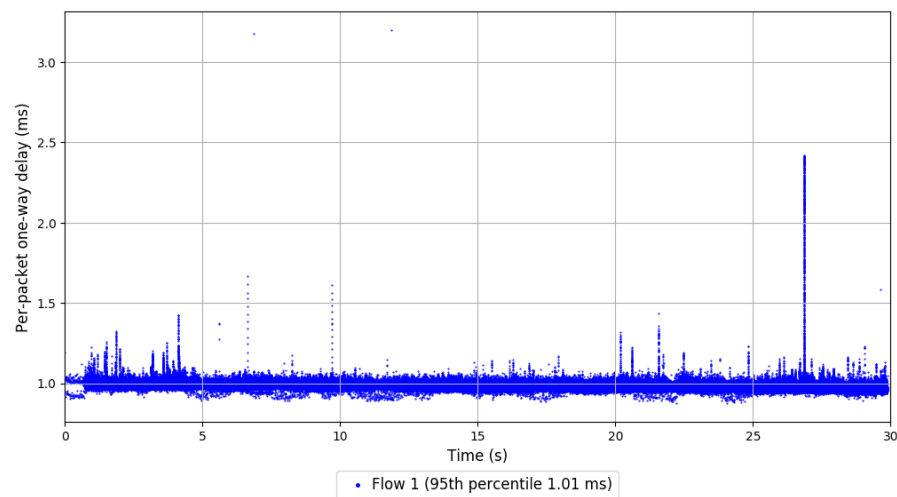
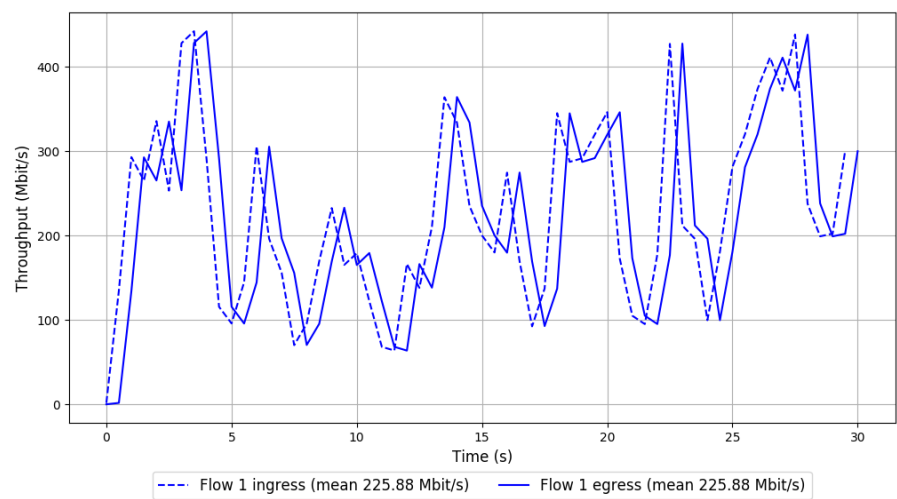


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-19 06:10:50  
End at: 2019-01-19 06:11:20  
Local clock offset: -0.146 ms  
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2019-01-19 08:52:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 225.88 Mbit/s  
95th percentile per-packet one-way delay: 1.014 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 225.88 Mbit/s  
95th percentile per-packet one-way delay: 1.014 ms  
Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-19 06:40:26

End at: 2019-01-19 06:40:56

Local clock offset: 3.366 ms

Remote clock offset: -3.432 ms

# Below is generated by plot.py at 2019-01-19 08:52:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 282.11 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.01%

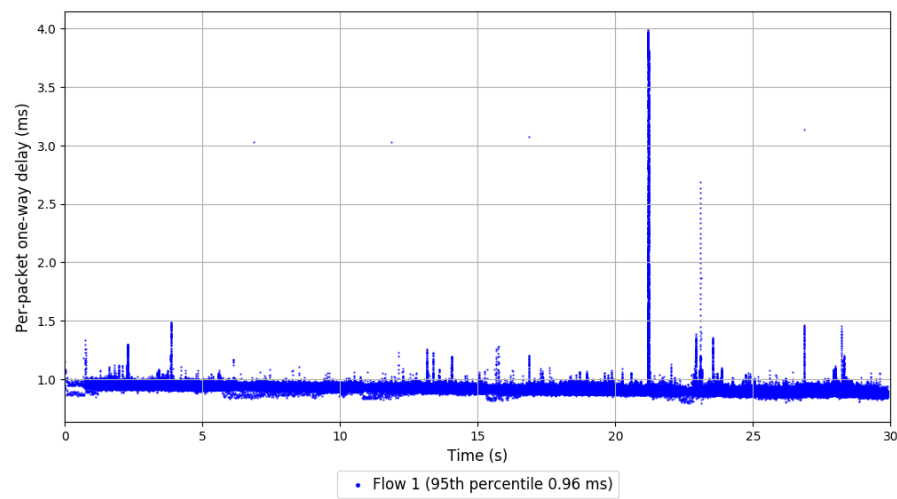
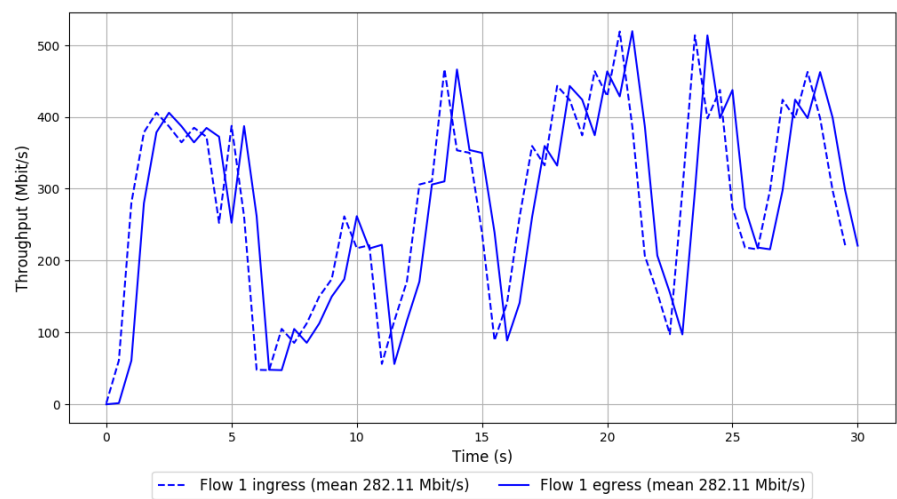
-- Flow 1:

Average throughput: 282.11 Mbit/s

95th percentile per-packet one-way delay: 0.956 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link

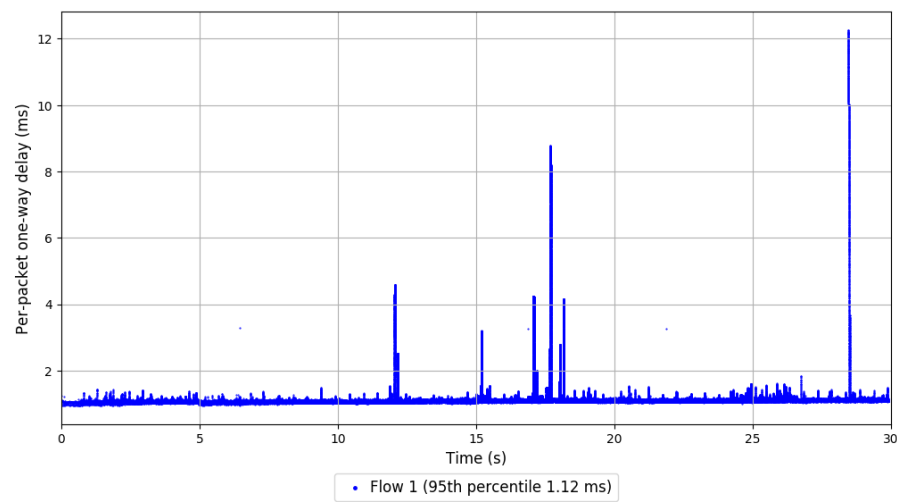
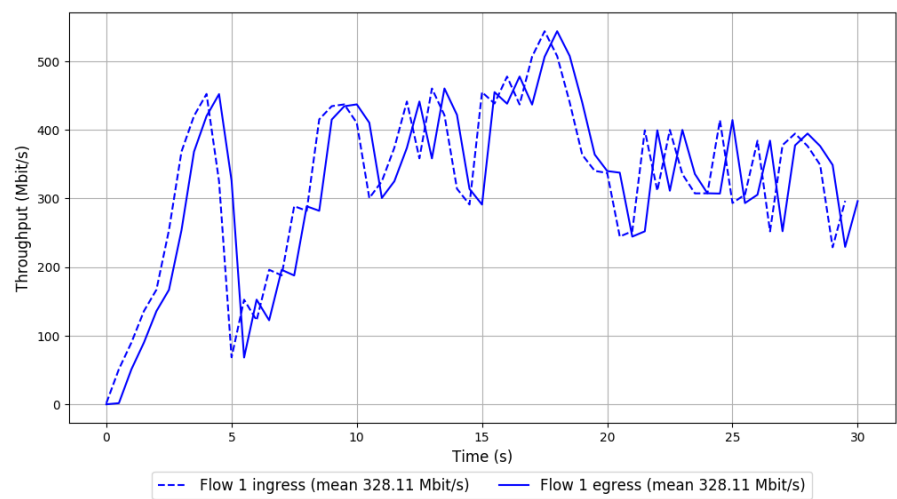


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-19 07:10:07  
End at: 2019-01-19 07:10:37  
Local clock offset: 4.771 ms  
Remote clock offset: -0.649 ms

# Below is generated by plot.py at 2019-01-19 08:52:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 328.11 Mbit/s  
95th percentile per-packet one-way delay: 1.120 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 328.11 Mbit/s  
95th percentile per-packet one-way delay: 1.120 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-19 07:39:56

End at: 2019-01-19 07:40:26

Local clock offset: -0.711 ms

Remote clock offset: 0.705 ms

# Below is generated by plot.py at 2019-01-19 08:52:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 268.09 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.00%

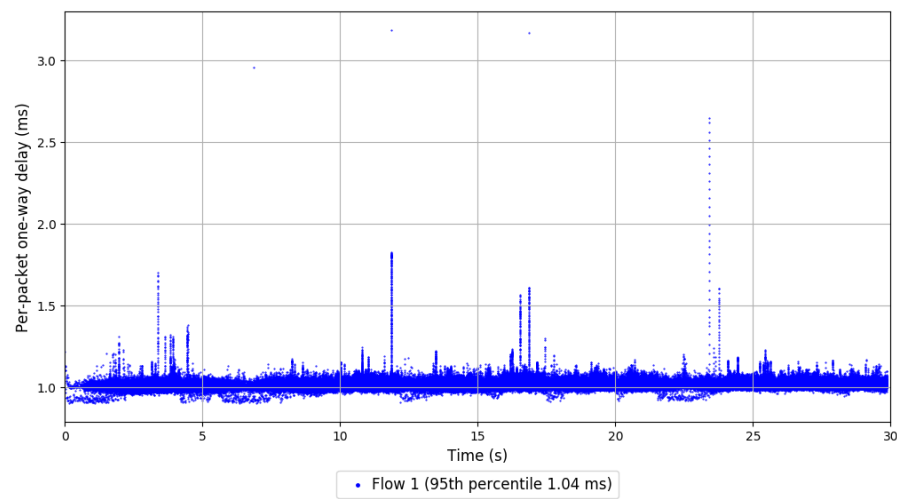
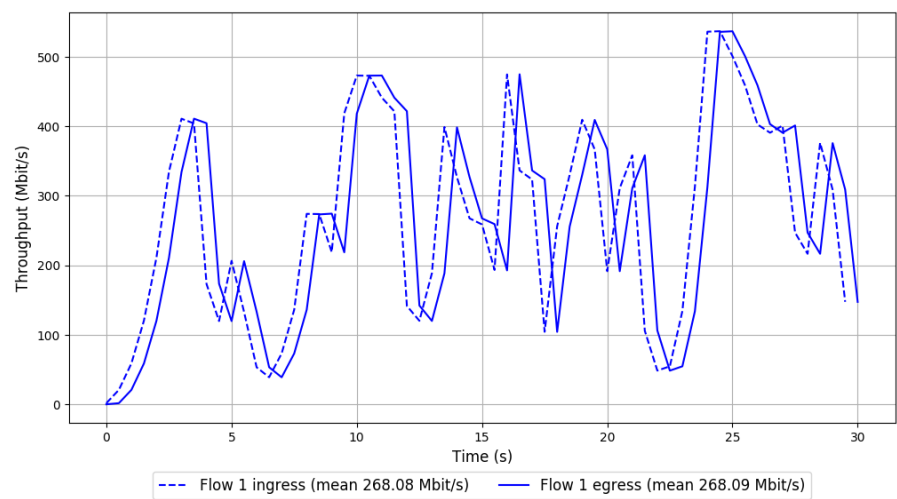
-- Flow 1:

Average throughput: 268.09 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



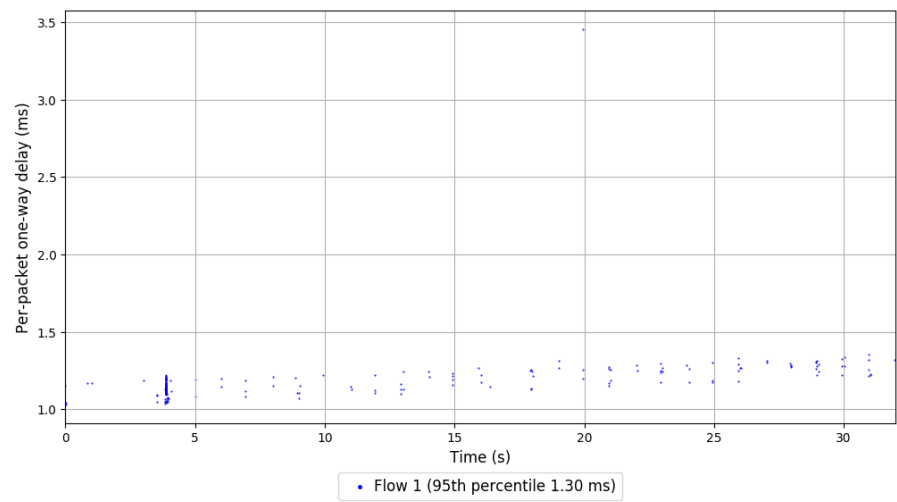
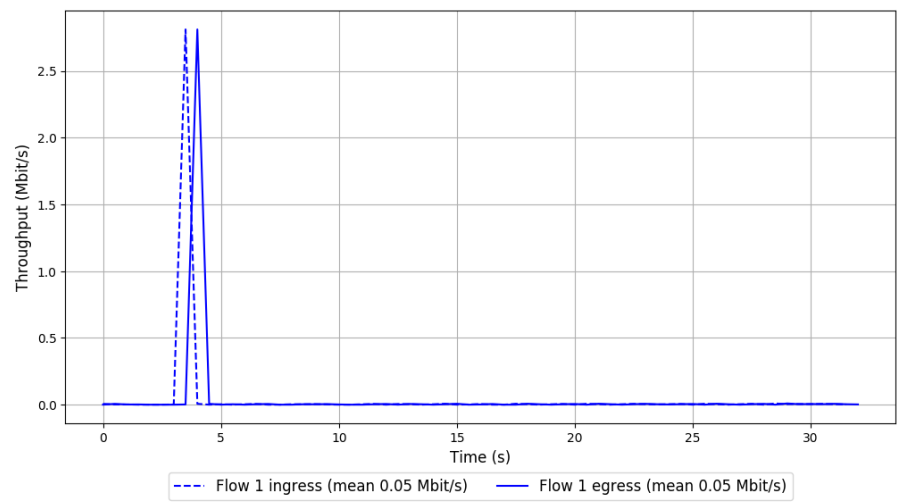


Run 1: Statistics of WebRTC media

Start at: 2019-01-19 05:18:49  
End at: 2019-01-19 05:19:19  
Local clock offset: -0.431 ms  
Remote clock offset: -0.512 ms

# Below is generated by plot.py at 2019-01-19 08:52:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.302 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.302 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-19 05:48:32

End at: 2019-01-19 05:49:02

Local clock offset: -0.325 ms

Remote clock offset: 3.886 ms

# Below is generated by plot.py at 2019-01-19 08:52:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.00%

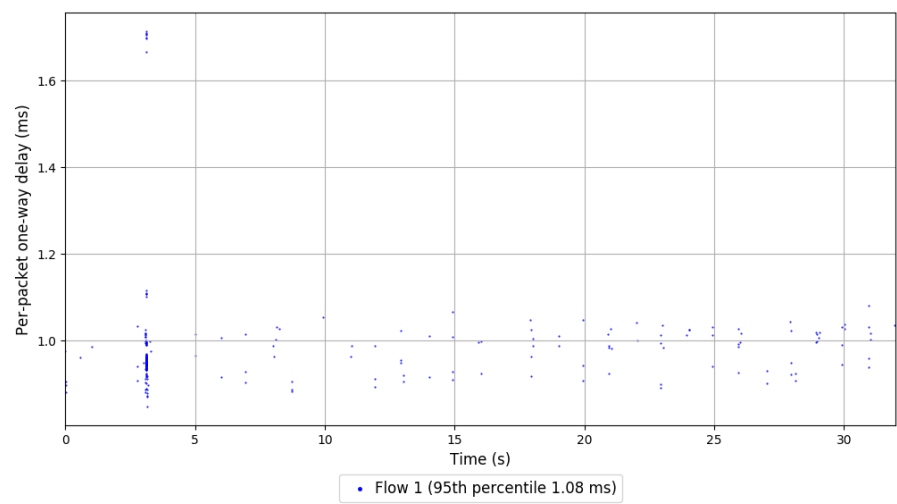
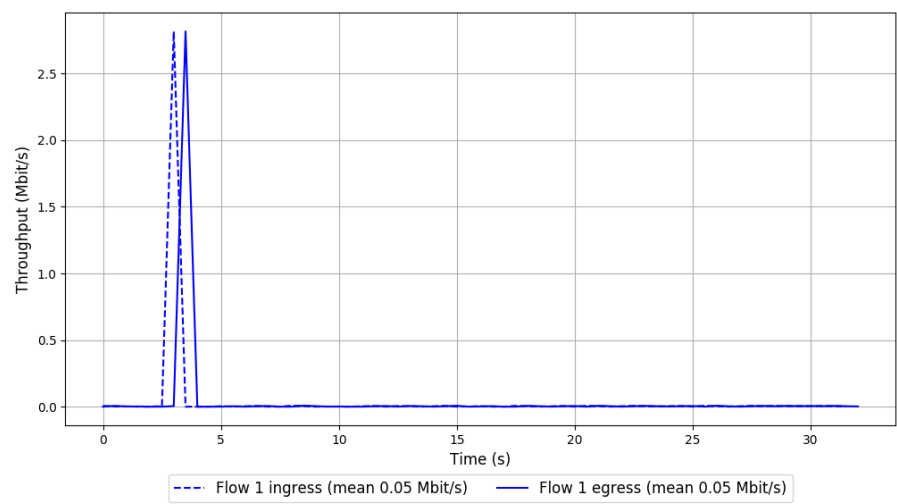
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

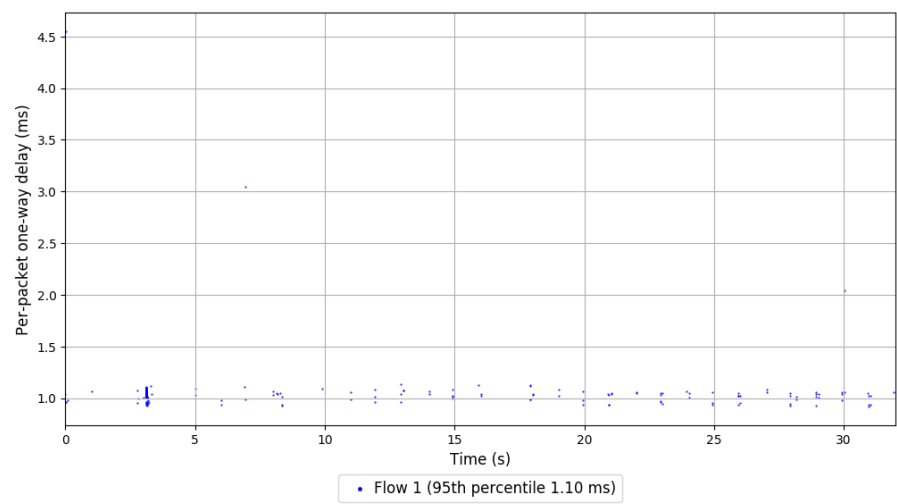
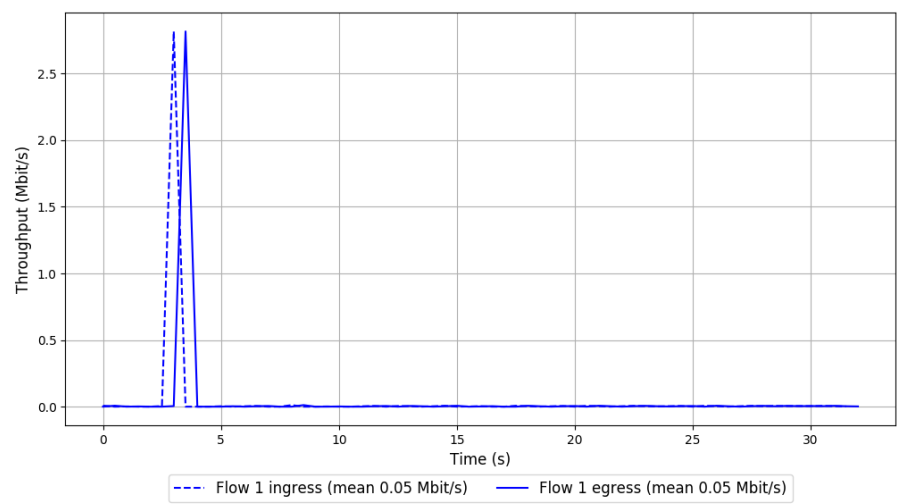


Run 3: Statistics of WebRTC media

Start at: 2019-01-19 06:18:12  
End at: 2019-01-19 06:18:42  
Local clock offset: -0.165 ms  
Remote clock offset: -0.482 ms

# Below is generated by plot.py at 2019-01-19 08:52:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.103 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.103 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-19 06:47:52

End at: 2019-01-19 06:48:22

Local clock offset: 3.814 ms

Remote clock offset: -3.89 ms

# Below is generated by plot.py at 2019-01-19 08:52:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.00%

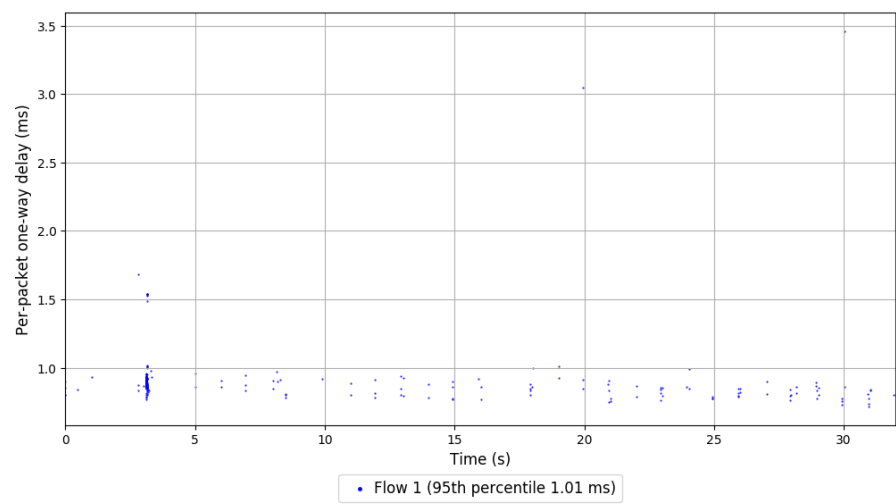
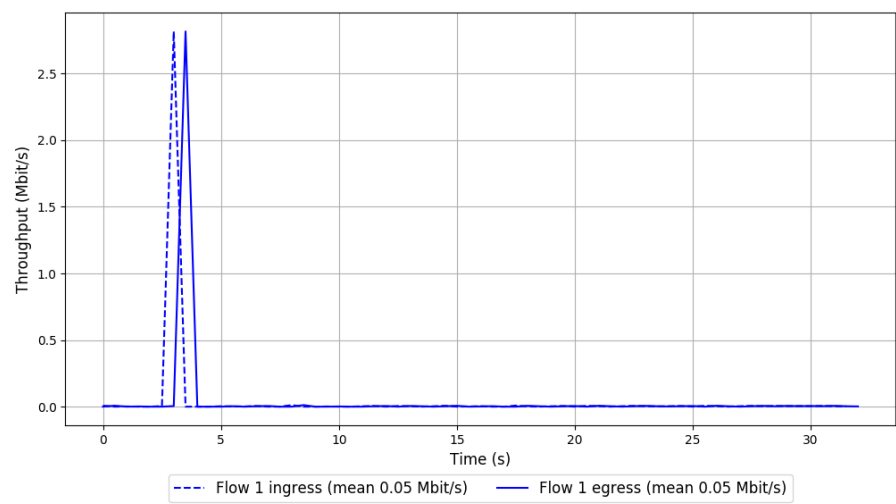
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-19 07:17:36

End at: 2019-01-19 07:18:06

Local clock offset: 5.063 ms

Remote clock offset: 0.478 ms

# Below is generated by plot.py at 2019-01-19 08:52:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

