

## Pantheon Report

Generated at 2019-01-21 08:50:18 (UTC).

Data path: GCE Sydney on `ens4` (*local*) → GCE Iowa on `ens4` (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

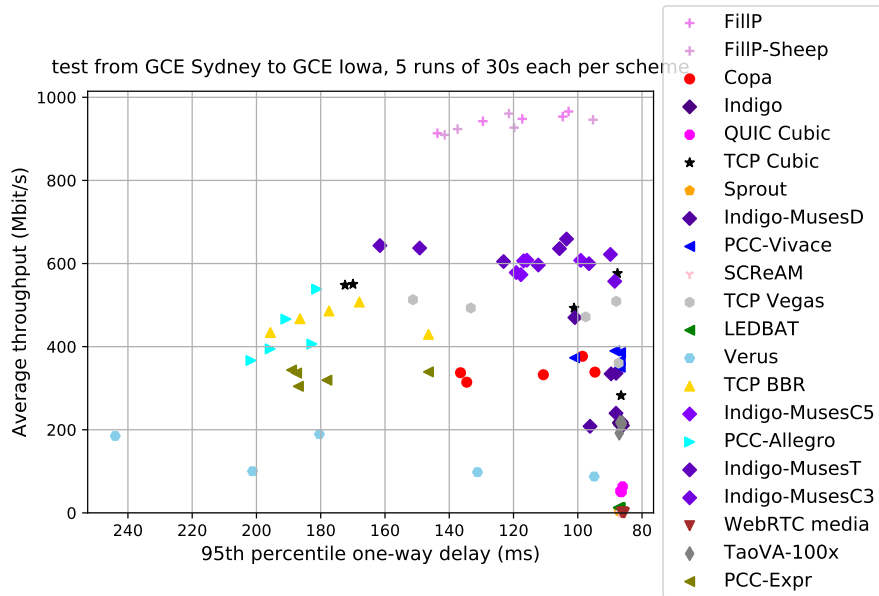
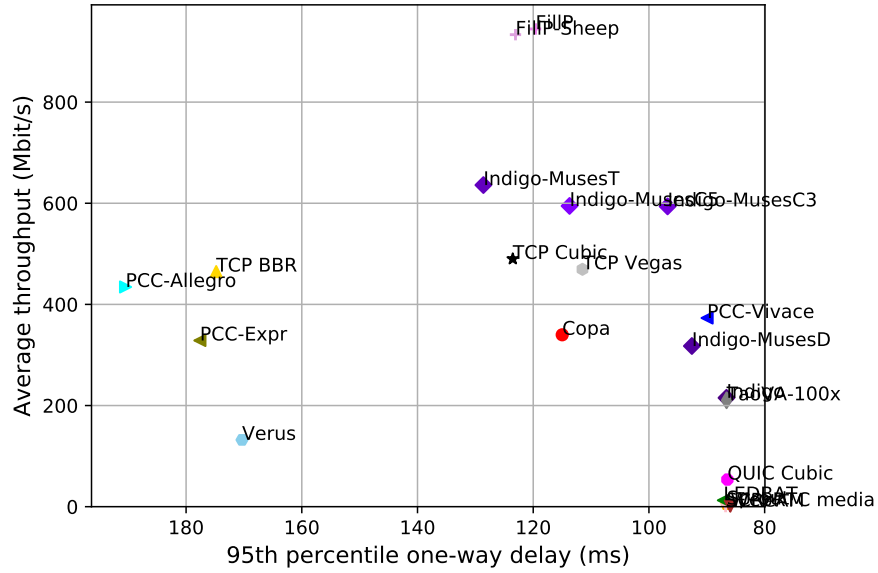
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
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 GCE Sydney to GCE Iowa, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



| scheme         | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|----------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR        | 5      | 464.88                           | 174.79                              | 0.71                         |
| Copa           | 5      | 339.90                           | 114.99                              | 0.00                         |
| TCP Cubic      | 5      | 489.92                           | 123.54                              | 0.07                         |
| FillP          | 5      | 944.66                           | 119.60                              | 0.59                         |
| FillP-Sheep    | 5      | 933.35                           | 123.07                              | 0.60                         |
| Indigo         | 5      | 215.25                           | 86.60                               | 0.00                         |
| Indigo-MusesC3 | 4      | 593.79                           | 96.78                               | 0.00                         |
| Indigo-MusesC5 | 5      | 594.70                           | 113.72                              | 0.02                         |
| Indigo-MusesD  | 5      | 317.71                           | 92.58                               | 0.02                         |
| Indigo-MusesT  | 5      | 635.99                           | 128.61                              | 0.19                         |
| LEDBAT         | 5      | 12.60                            | 87.13                               | 0.00                         |
| PCC-Allegro    | 5      | 434.46                           | 190.46                              | 1.08                         |
| PCC-Expr       | 5      | 328.63                           | 177.62                              | 2.49                         |
| QUIC Cubic     | 5      | 53.64                            | 86.44                               | 0.00                         |
| SCReAM         | 5      | 0.22                             | 86.75                               | 0.00                         |
| Sprout         | 5      | 4.44                             | 86.56                               | 0.00                         |
| TaoVA-100x     | 5      | 210.36                           | 86.58                               | 0.02                         |
| TCP Vegas      | 5      | 469.38                           | 111.49                              | 0.08                         |
| Verus          | 5      | 132.08                           | 170.33                              | 3.62                         |
| PCC-Vivace     | 5      | 373.11                           | 89.95                               | 0.00                         |
| WebRTC media   | 5      | 1.10                             | 85.93                               | 0.00                         |



Run 1: Statistics of TCP BBR

Start at: 2019-01-21 03:39:46

End at: 2019-01-21 03:40:16

Local clock offset: 6.932 ms

Remote clock offset: 6.961 ms

# Below is generated by plot.py at 2019-01-21 06:37:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 485.94 Mbit/s

95th percentile per-packet one-way delay: 177.416 ms

Loss rate: 0.89%

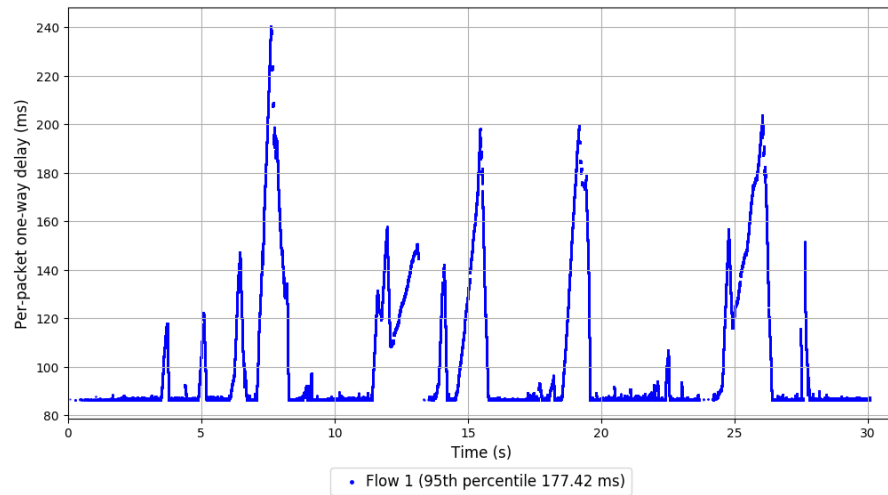
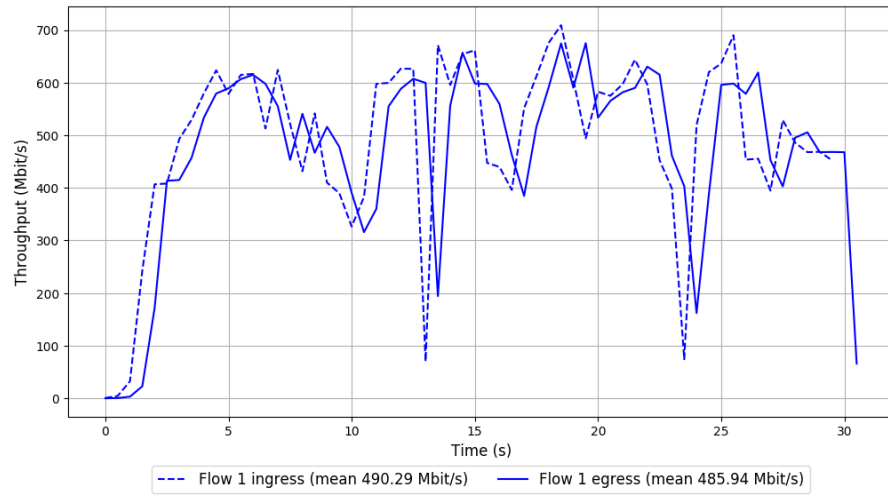
-- Flow 1:

Average throughput: 485.94 Mbit/s

95th percentile per-packet one-way delay: 177.416 ms

Loss rate: 0.89%

# Run 1: Report of TCP BBR — Data Link

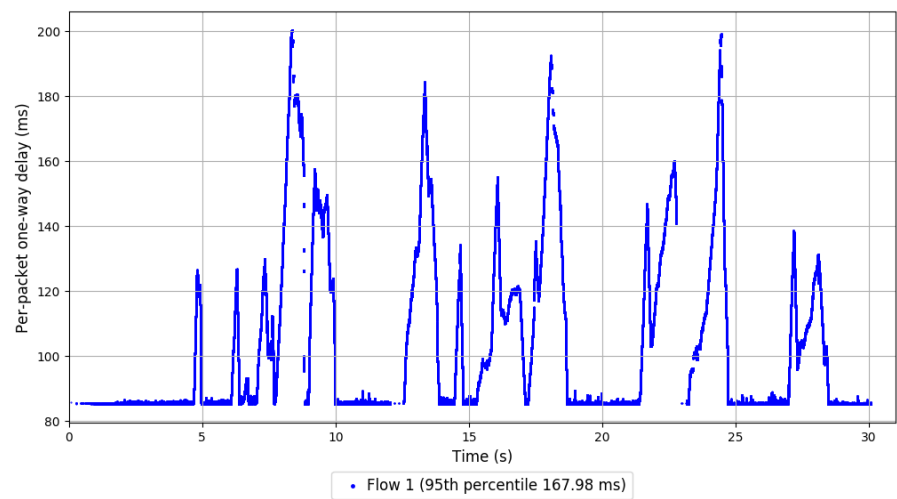
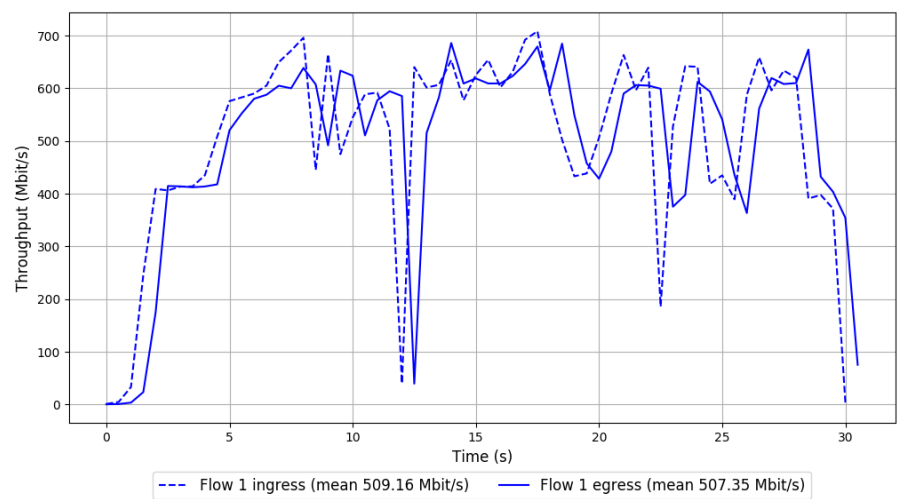


Run 2: Statistics of TCP BBR

Start at: 2019-01-21 04:11:26  
End at: 2019-01-21 04:11:56  
Local clock offset: 22.801 ms  
Remote clock offset: 21.676 ms

# Below is generated by plot.py at 2019-01-21 06:38:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 507.35 Mbit/s  
95th percentile per-packet one-way delay: 167.977 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 507.35 Mbit/s  
95th percentile per-packet one-way delay: 167.977 ms  
Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link

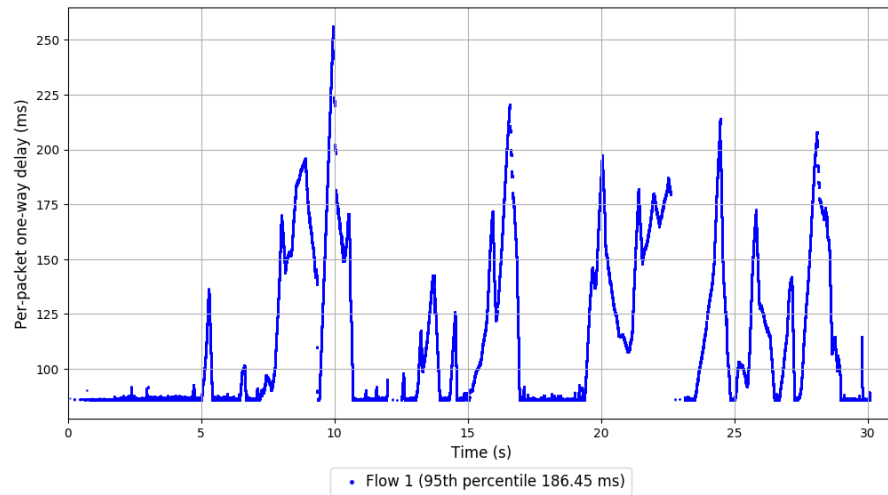
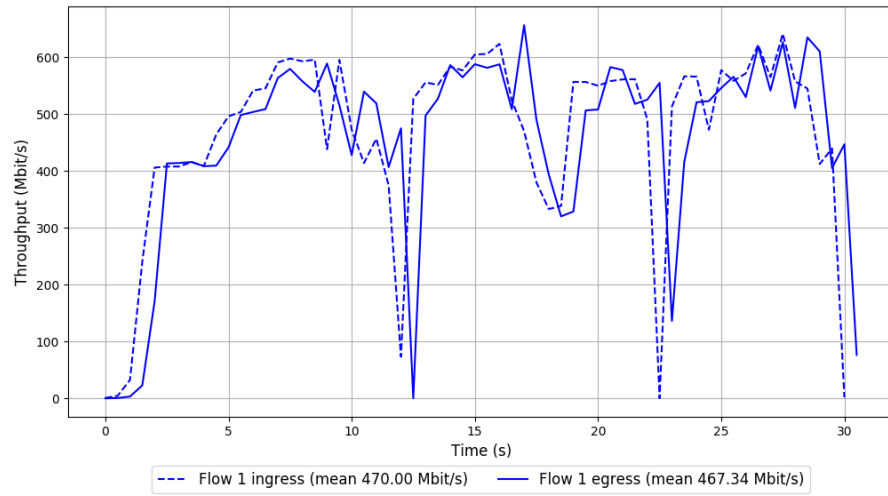


Run 3: Statistics of TCP BBR

Start at: 2019-01-21 04:43:03  
End at: 2019-01-21 04:43:33  
Local clock offset: 36.174 ms  
Remote clock offset: 35.392 ms

# Below is generated by plot.py at 2019-01-21 06:38:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 467.34 Mbit/s  
95th percentile per-packet one-way delay: 186.454 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 467.34 Mbit/s  
95th percentile per-packet one-way delay: 186.454 ms  
Loss rate: 0.57%

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

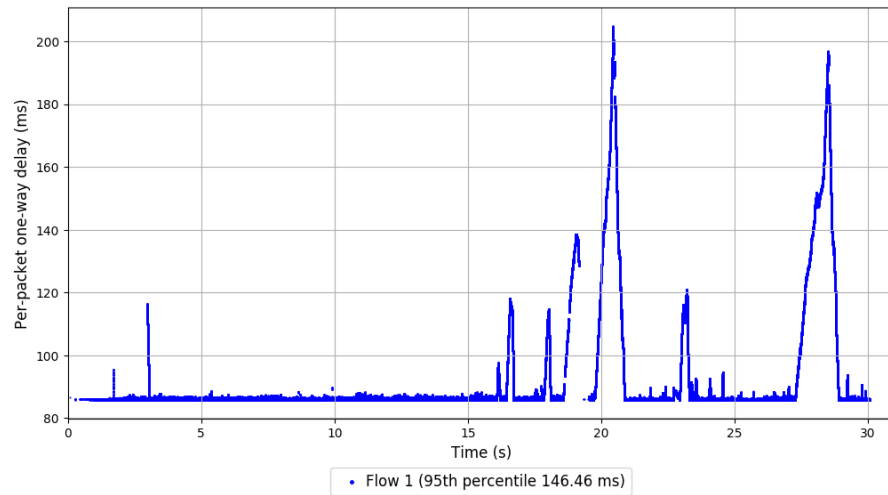
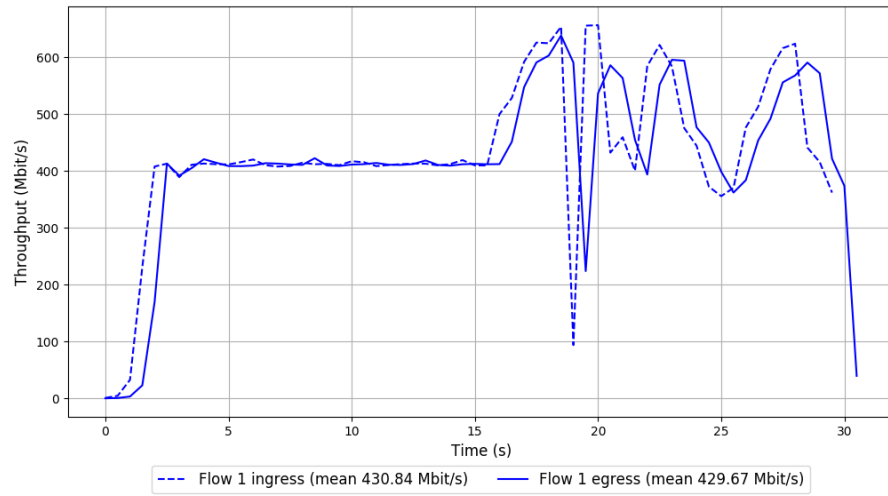


Run 4: Statistics of TCP BBR

Start at: 2019-01-21 05:14:43  
End at: 2019-01-21 05:15:13  
Local clock offset: 20.793 ms  
Remote clock offset: 19.931 ms

# Below is generated by plot.py at 2019-01-21 06:38:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 429.67 Mbit/s  
95th percentile per-packet one-way delay: 146.463 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 429.67 Mbit/s  
95th percentile per-packet one-way delay: 146.463 ms  
Loss rate: 0.27%

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





Run 5: Statistics of TCP BBR

Start at: 2019-01-21 05:46:10

End at: 2019-01-21 05:46:40

Local clock offset: 9.061 ms

Remote clock offset: 4.391 ms

# Below is generated by plot.py at 2019-01-21 06:38:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 434.12 Mbit/s

95th percentile per-packet one-way delay: 195.660 ms

Loss rate: 1.45%

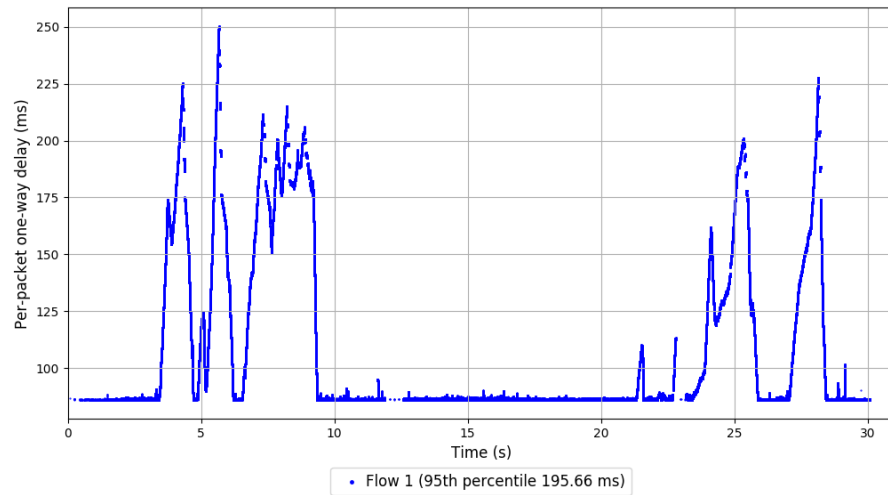
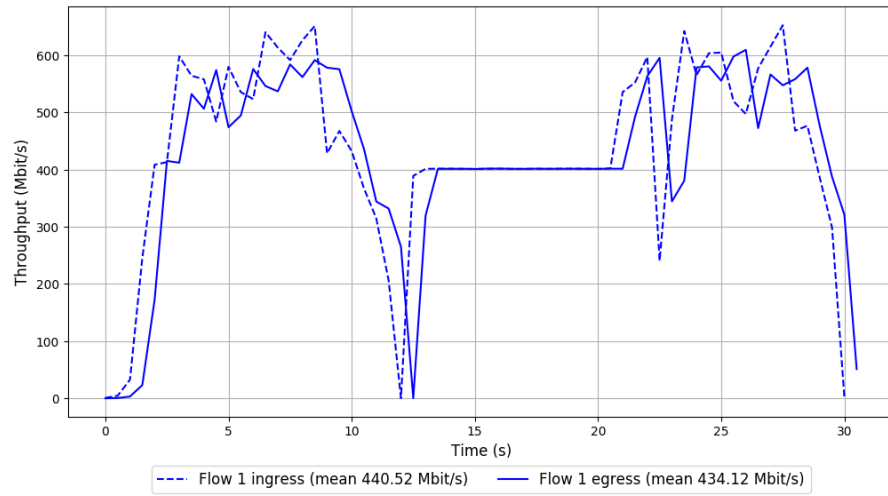
-- Flow 1:

Average throughput: 434.12 Mbit/s

95th percentile per-packet one-way delay: 195.660 ms

Loss rate: 1.45%

# Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-21 03:35:15

End at: 2019-01-21 03:35:45

Local clock offset: 3.648 ms

Remote clock offset: 4.277 ms

# Below is generated by plot.py at 2019-01-21 06:40:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 337.19 Mbit/s

95th percentile per-packet one-way delay: 136.489 ms

Loss rate: 0.00%

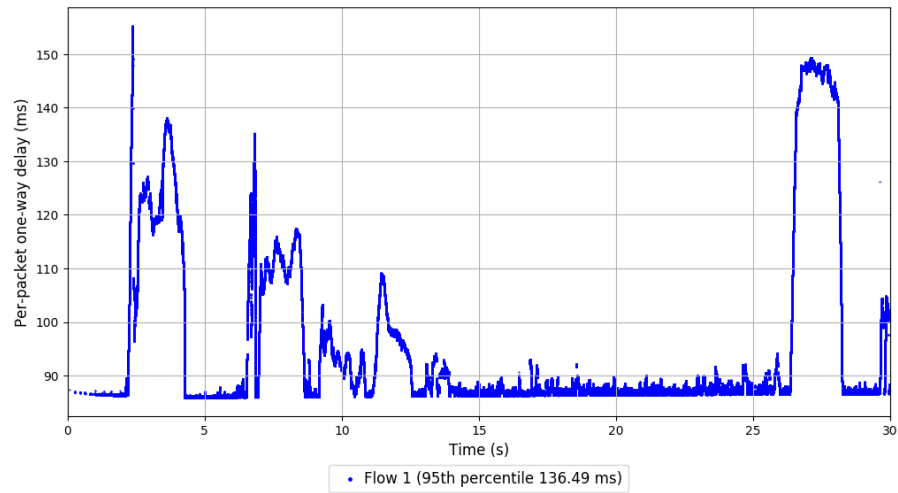
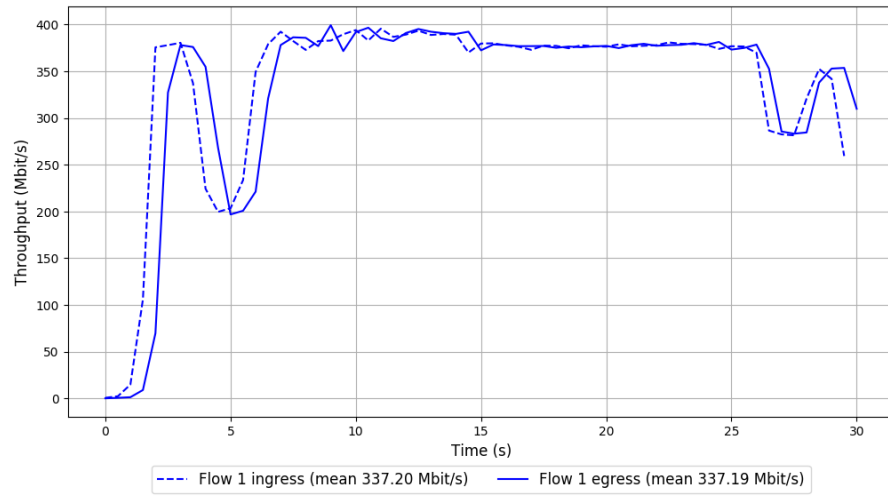
-- Flow 1:

Average throughput: 337.19 Mbit/s

95th percentile per-packet one-way delay: 136.489 ms

Loss rate: 0.00%

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-01-21 04:06:59

End at: 2019-01-21 04:07:29

Local clock offset: 26.626 ms

Remote clock offset: 26.22 ms

# Below is generated by plot.py at 2019-01-21 06:40:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 338.69 Mbit/s

95th percentile per-packet one-way delay: 94.649 ms

Loss rate: 0.00%

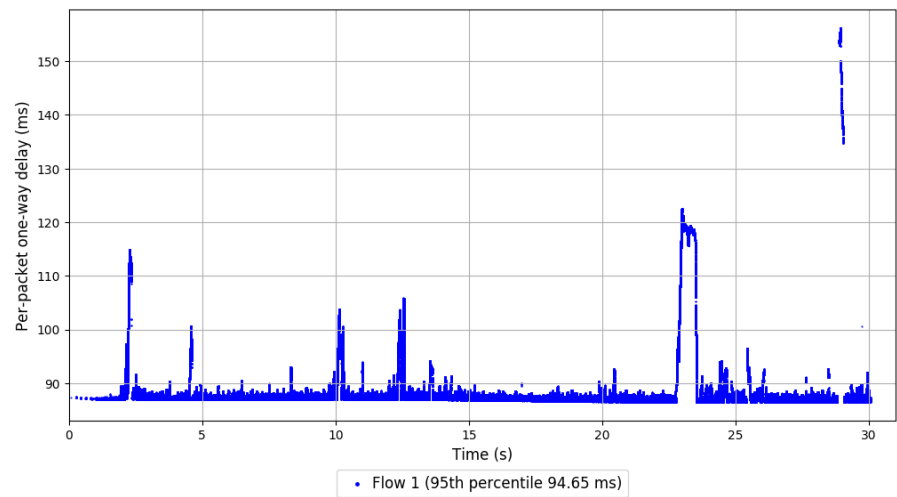
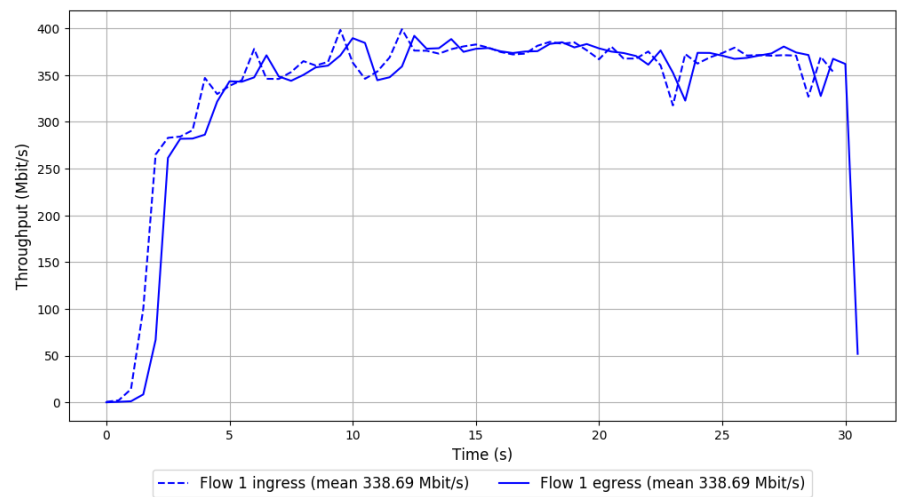
-- Flow 1:

Average throughput: 338.69 Mbit/s

95th percentile per-packet one-way delay: 94.649 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

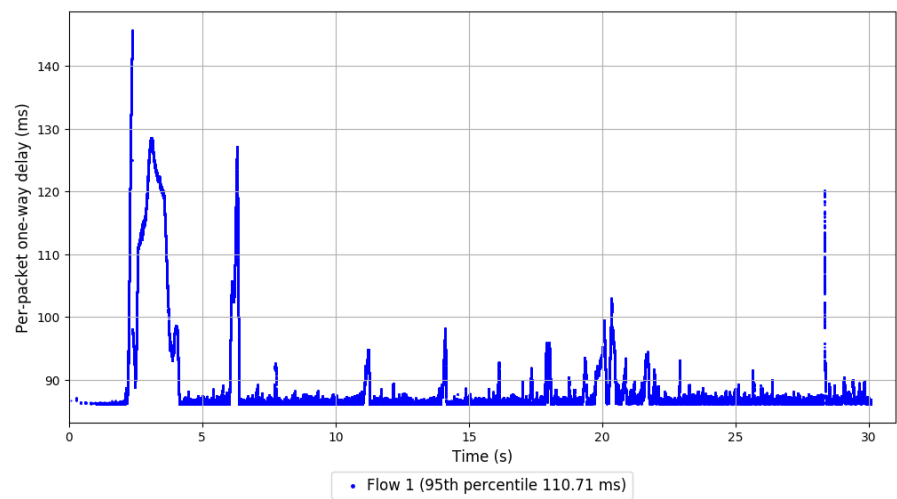
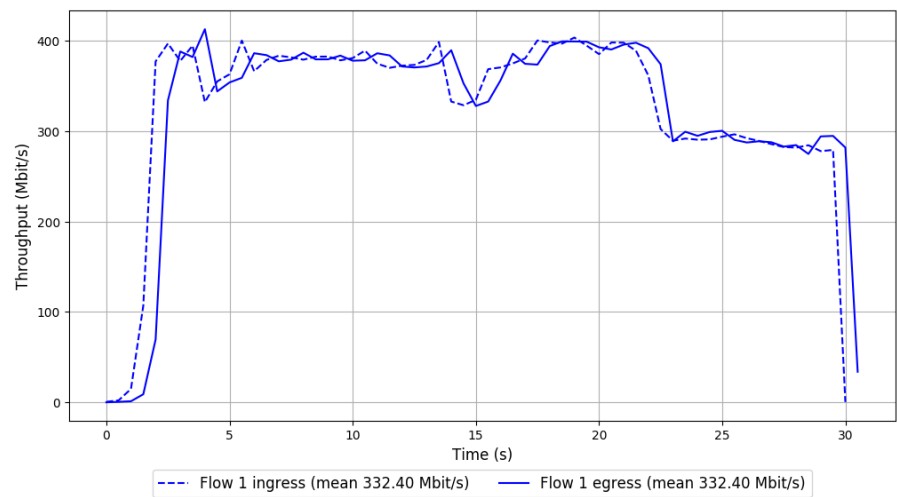


Run 3: Statistics of Copa

Start at: 2019-01-21 04:38:35  
End at: 2019-01-21 04:39:05  
Local clock offset: 37.89 ms  
Remote clock offset: 37.142 ms

# Below is generated by plot.py at 2019-01-21 06:40:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 332.40 Mbit/s  
95th percentile per-packet one-way delay: 110.714 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 332.40 Mbit/s  
95th percentile per-packet one-way delay: 110.714 ms  
Loss rate: 0.00%

Run 3: Report of Copa — Data Link



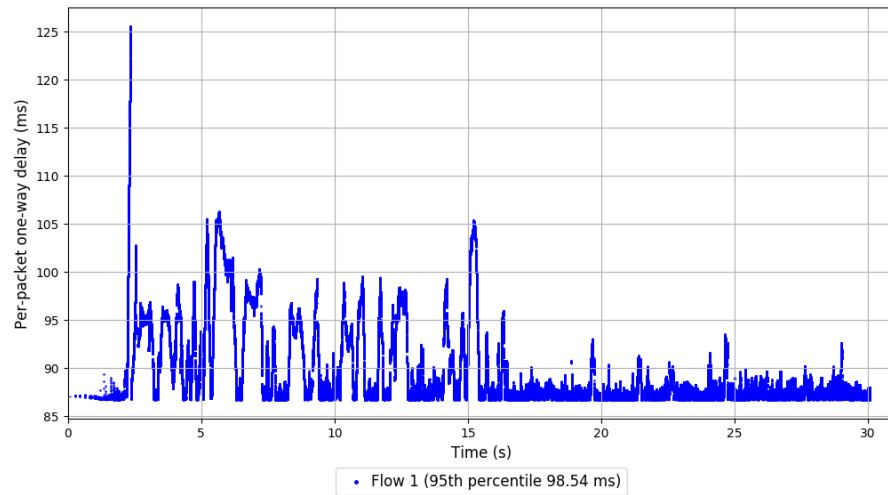
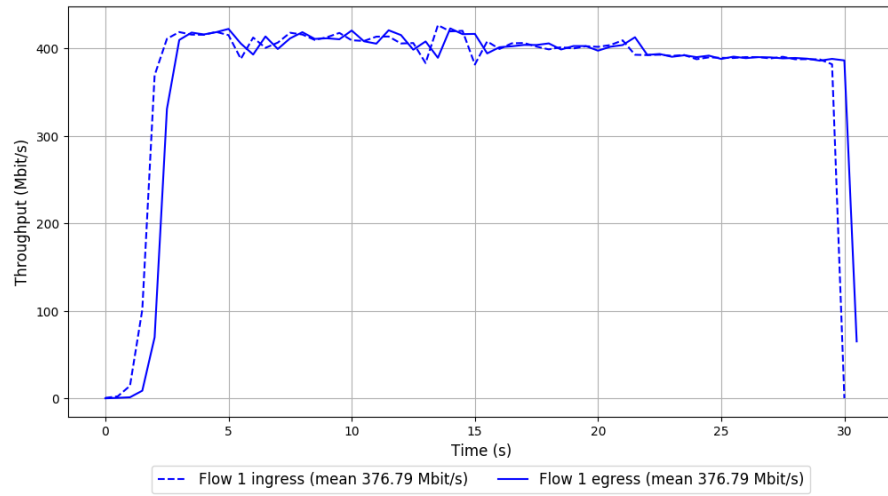


Run 4: Statistics of Copa

Start at: 2019-01-21 05:10:08  
End at: 2019-01-21 05:10:39  
Local clock offset: 18.03 ms  
Remote clock offset: 17.967 ms

# Below is generated by plot.py at 2019-01-21 06:52:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 376.79 Mbit/s  
95th percentile per-packet one-way delay: 98.543 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 376.79 Mbit/s  
95th percentile per-packet one-way delay: 98.543 ms  
Loss rate: 0.00%

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



Run 5: Statistics of Copa

Start at: 2019-01-21 05:41:42

End at: 2019-01-21 05:42:12

Local clock offset: 8.275 ms

Remote clock offset: 4.342 ms

# Below is generated by plot.py at 2019-01-21 06:52:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 314.43 Mbit/s

95th percentile per-packet one-way delay: 134.553 ms

Loss rate: 0.01%

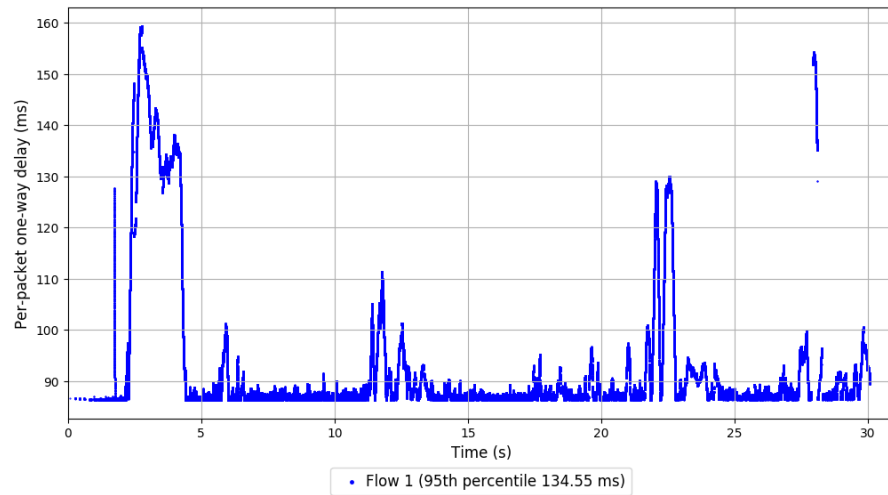
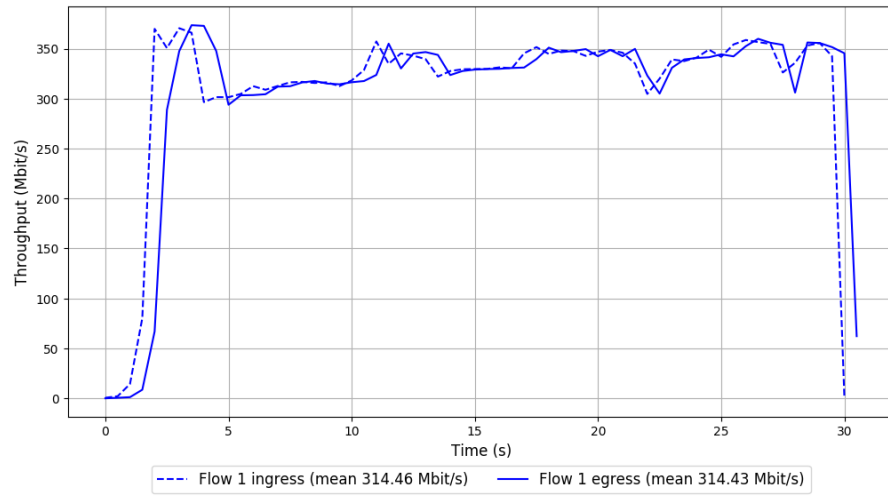
-- Flow 1:

Average throughput: 314.43 Mbit/s

95th percentile per-packet one-way delay: 134.553 ms

Loss rate: 0.01%

## Run 5: Report of Copa — Data Link

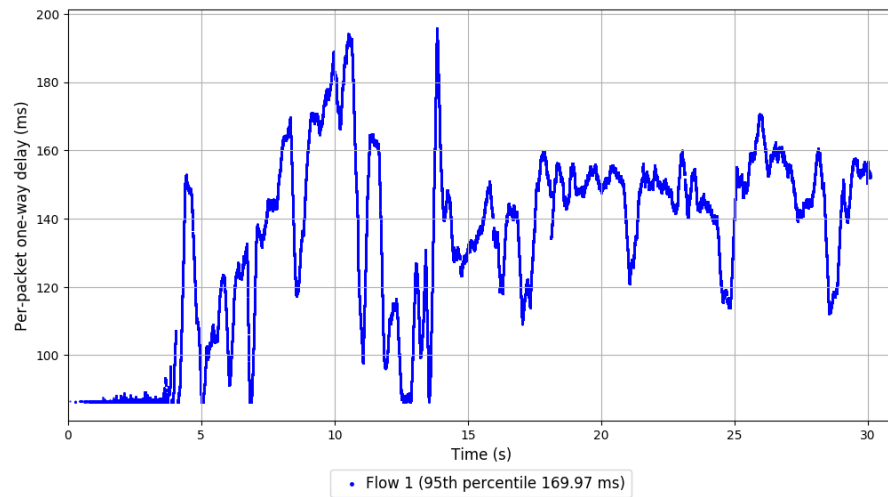
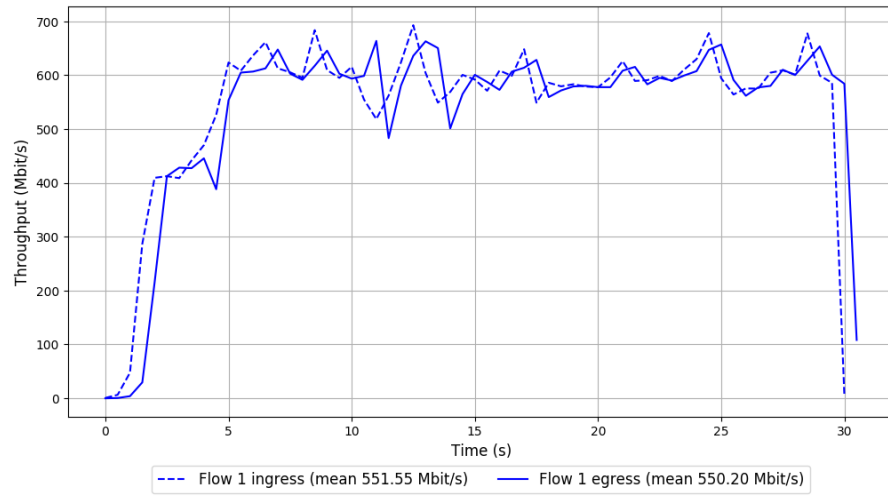


Run 1: Statistics of TCP Cubic

Start at: 2019-01-21 04:03:51  
End at: 2019-01-21 04:04:21  
Local clock offset: 22.246 ms  
Remote clock offset: 21.981 ms

# Below is generated by plot.py at 2019-01-21 06:52:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 550.20 Mbit/s  
95th percentile per-packet one-way delay: 169.970 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 550.20 Mbit/s  
95th percentile per-packet one-way delay: 169.970 ms  
Loss rate: 0.24%

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

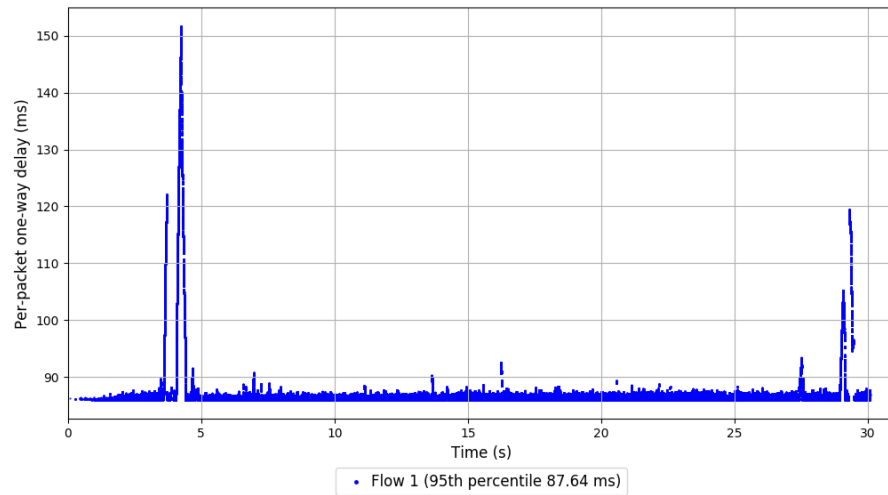
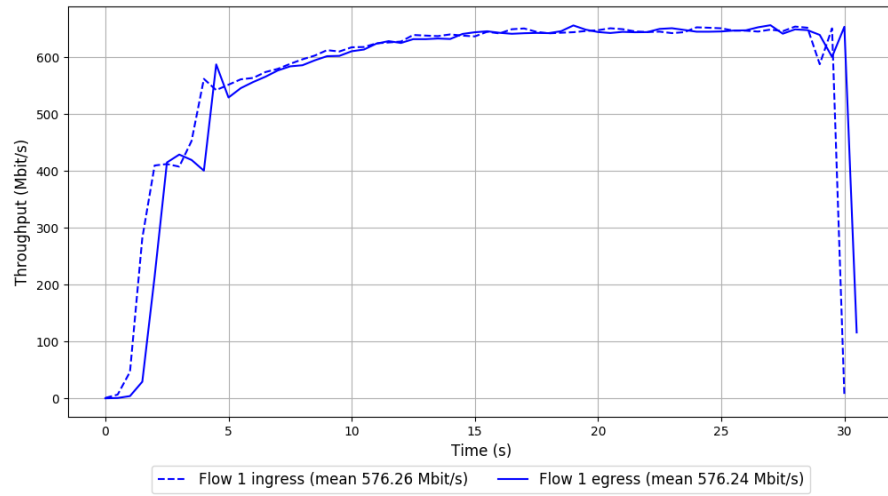


Run 2: Statistics of TCP Cubic

Start at: 2019-01-21 04:35:28  
End at: 2019-01-21 04:35:58  
Local clock offset: 34.926 ms  
Remote clock offset: 33.877 ms

# Below is generated by plot.py at 2019-01-21 06:52:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 576.24 Mbit/s  
95th percentile per-packet one-way delay: 87.636 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 576.24 Mbit/s  
95th percentile per-packet one-way delay: 87.636 ms  
Loss rate: 0.00%

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



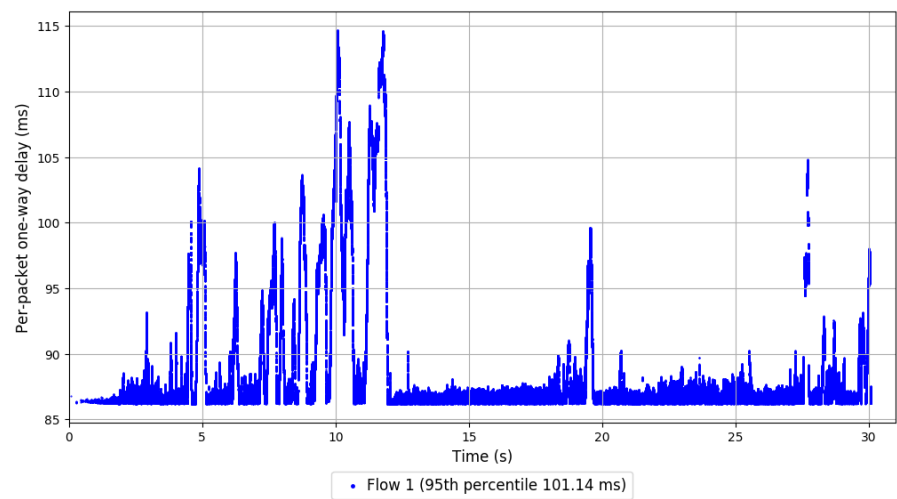
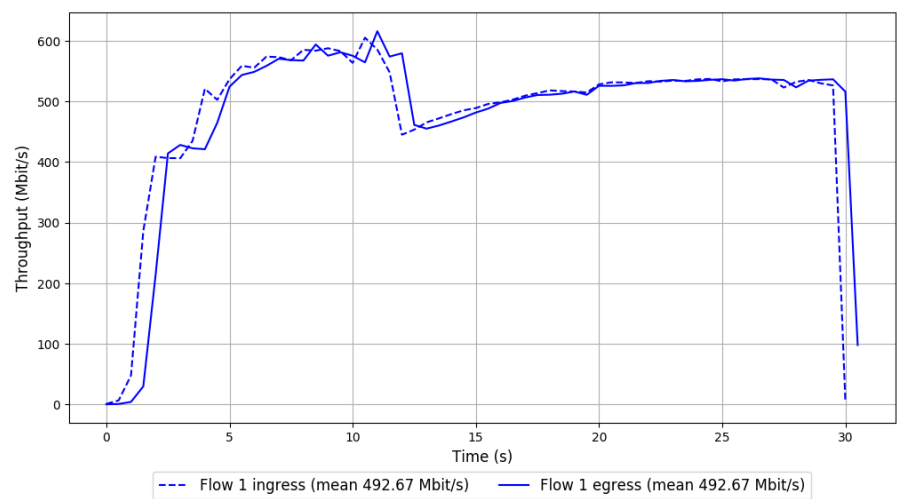


Run 3: Statistics of TCP Cubic

Start at: 2019-01-21 05:07:04  
End at: 2019-01-21 05:07:34  
Local clock offset: 16.885 ms  
Remote clock offset: 16.724 ms

# Below is generated by plot.py at 2019-01-21 06:52:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 492.67 Mbit/s  
95th percentile per-packet one-way delay: 101.145 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 492.67 Mbit/s  
95th percentile per-packet one-way delay: 101.145 ms  
Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-01-21 05:38:48

End at: 2019-01-21 05:39:18

Local clock offset: 8.063 ms

Remote clock offset: 4.307 ms

# Below is generated by plot.py at 2019-01-21 06:52:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 282.41 Mbit/s

95th percentile per-packet one-way delay: 86.513 ms

Loss rate: 0.00%

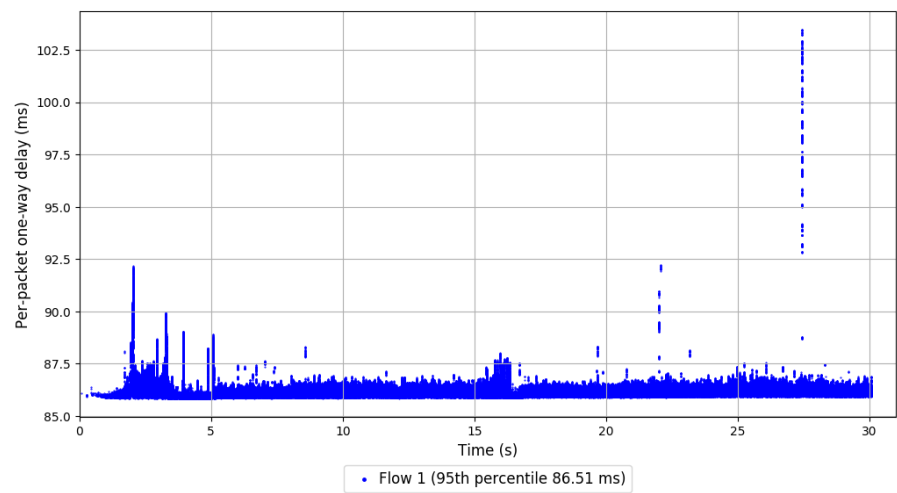
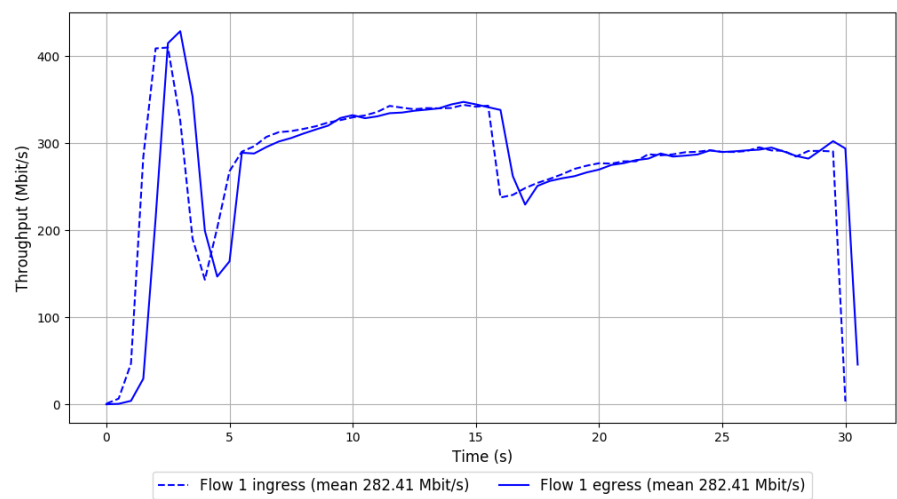
-- Flow 1:

Average throughput: 282.41 Mbit/s

95th percentile per-packet one-way delay: 86.513 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-01-21 06:10:48

End at: 2019-01-21 06:11:18

Local clock offset: 2.042 ms

Remote clock offset: 1.584 ms

# Below is generated by plot.py at 2019-01-21 06:53:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 548.08 Mbit/s

95th percentile per-packet one-way delay: 172.416 ms

Loss rate: 0.12%

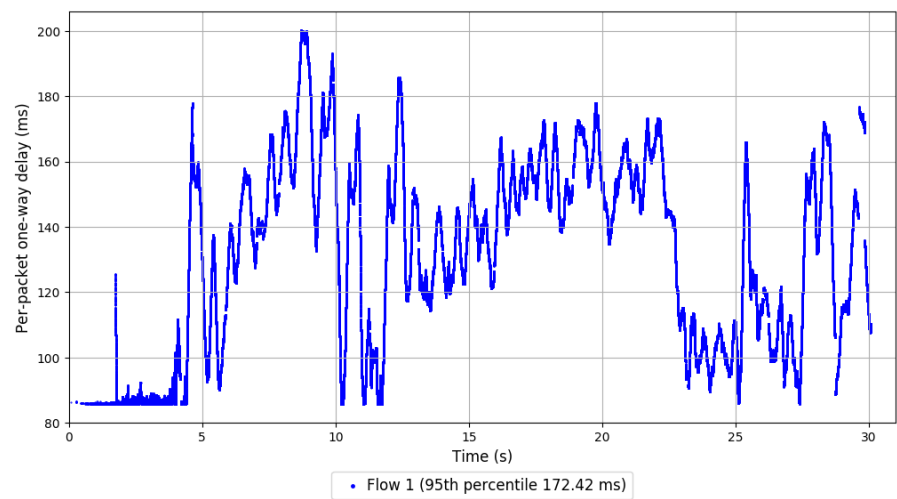
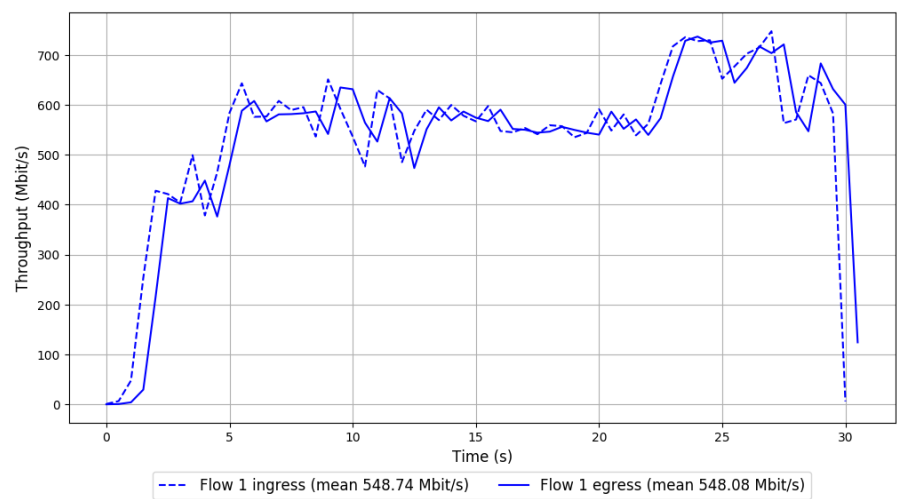
-- Flow 1:

Average throughput: 548.08 Mbit/s

95th percentile per-packet one-way delay: 172.416 ms

Loss rate: 0.12%

Run 5: Report of TCP Cubic — Data Link

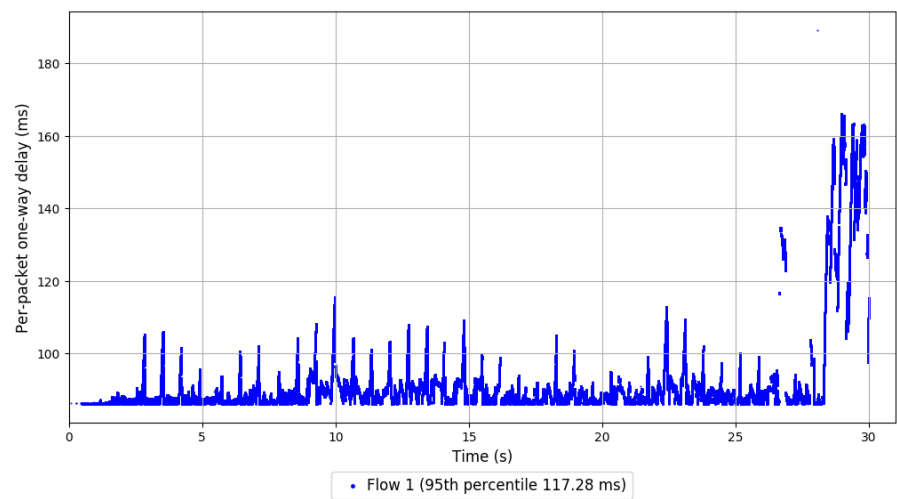
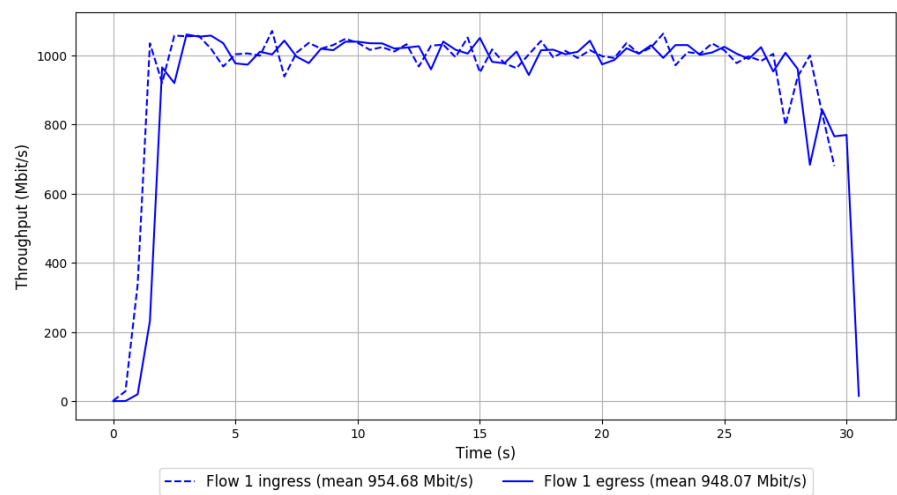


Run 1: Statistics of FillP

Start at: 2019-01-21 03:57:52  
End at: 2019-01-21 03:58:22  
Local clock offset: 15.106 ms  
Remote clock offset: 14.876 ms

# Below is generated by plot.py at 2019-01-21 07:05:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 948.07 Mbit/s  
95th percentile per-packet one-way delay: 117.276 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 948.07 Mbit/s  
95th percentile per-packet one-way delay: 117.276 ms  
Loss rate: 0.69%

Run 1: Report of FillP — Data Link



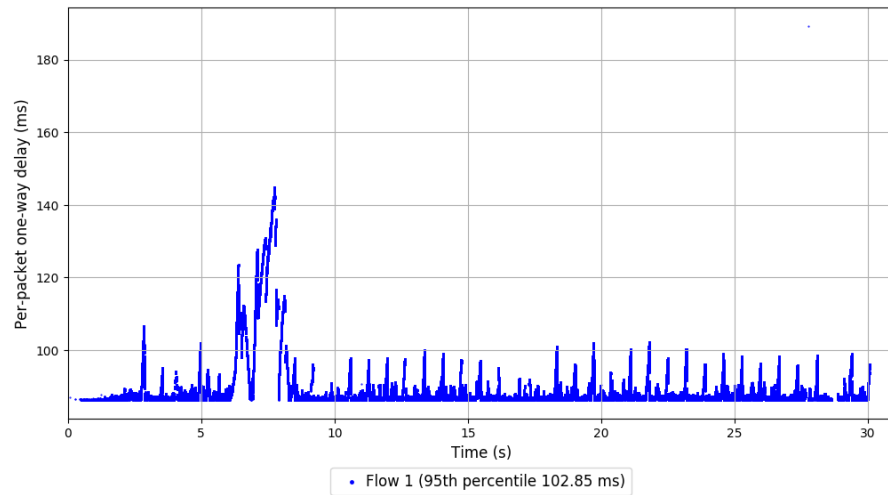
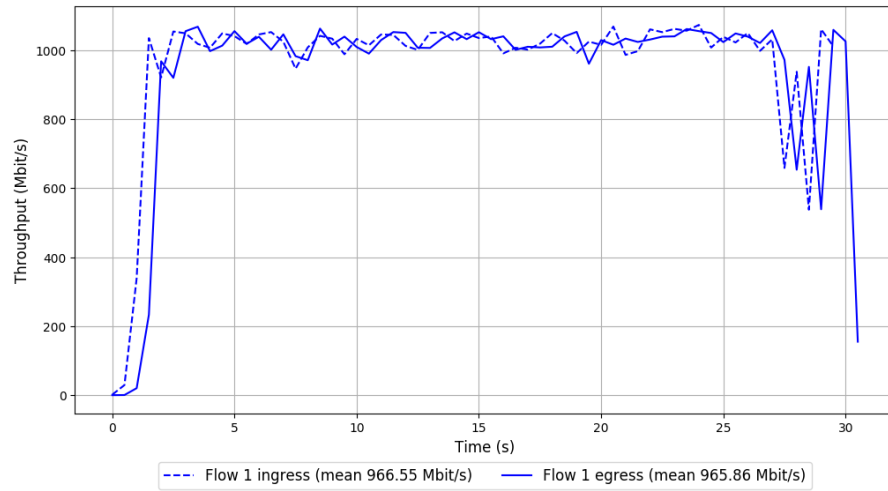


Run 2: Statistics of FillP

Start at: 2019-01-21 04:29:17  
End at: 2019-01-21 04:29:48  
Local clock offset: 28.107 ms  
Remote clock offset: 27.694 ms

# Below is generated by plot.py at 2019-01-21 07:16:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 965.86 Mbit/s  
95th percentile per-packet one-way delay: 102.854 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 965.86 Mbit/s  
95th percentile per-packet one-way delay: 102.854 ms  
Loss rate: 0.07%

## Run 2: Report of FillP — Data Link

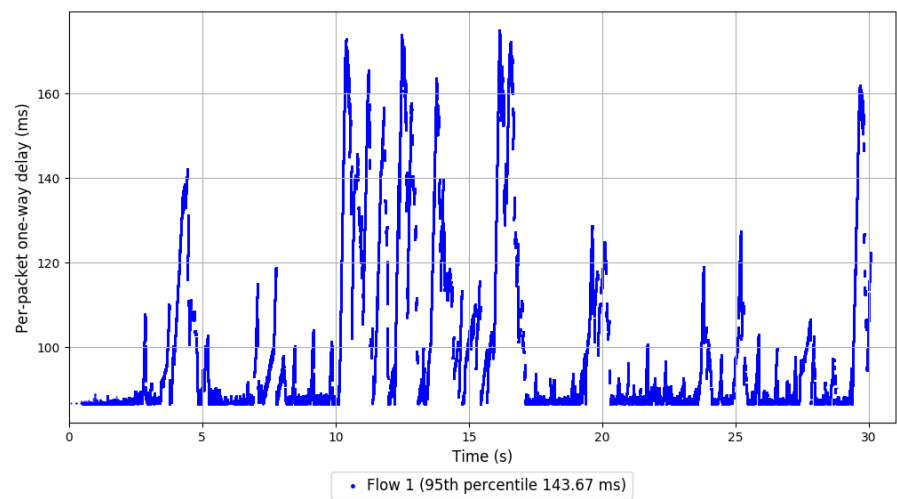
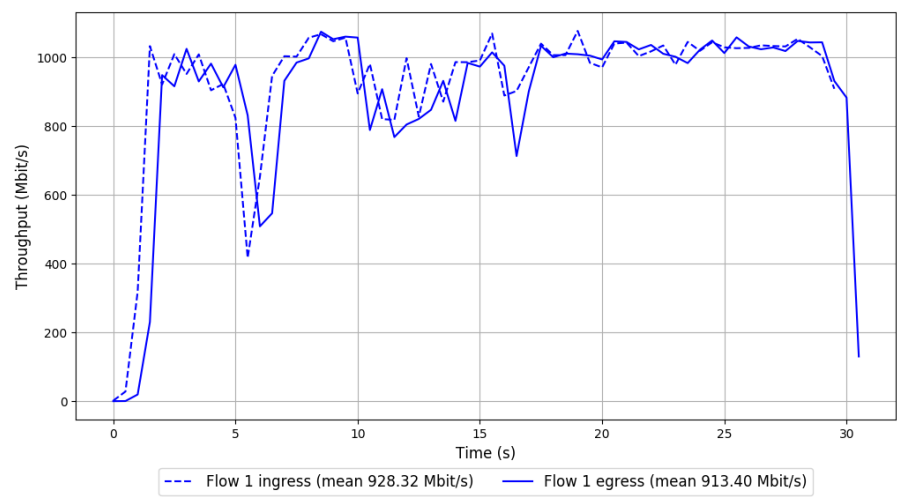


Run 3: Statistics of FillP

Start at: 2019-01-21 05:00:54  
End at: 2019-01-21 05:01:24  
Local clock offset: 15.734 ms  
Remote clock offset: 15.299 ms

# Below is generated by plot.py at 2019-01-21 07:17:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 913.40 Mbit/s  
95th percentile per-packet one-way delay: 143.672 ms  
Loss rate: 1.60%  
-- Flow 1:  
Average throughput: 913.40 Mbit/s  
95th percentile per-packet one-way delay: 143.672 ms  
Loss rate: 1.60%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-21 05:32:37

End at: 2019-01-21 05:33:07

Local clock offset: 7.639 ms

Remote clock offset: 4.938 ms

# Below is generated by plot.py at 2019-01-21 07:18:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 953.54 Mbit/s

95th percentile per-packet one-way delay: 104.663 ms

Loss rate: 0.19%

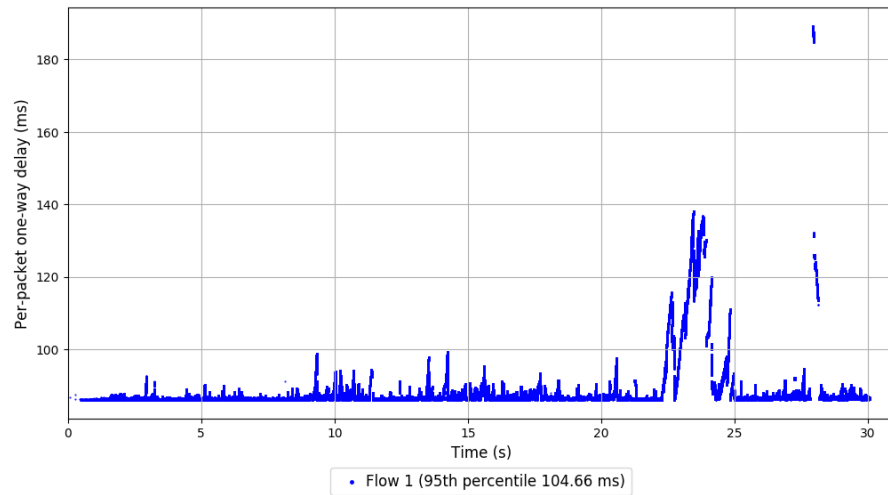
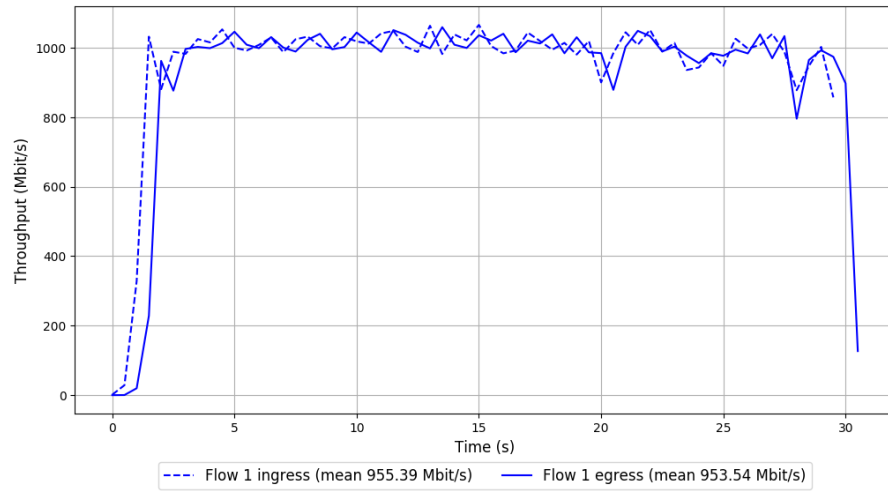
-- Flow 1:

Average throughput: 953.54 Mbit/s

95th percentile per-packet one-way delay: 104.663 ms

Loss rate: 0.19%

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



Run 5: Statistics of FillP

Start at: 2019-01-21 06:04:19

End at: 2019-01-21 06:04:49

Local clock offset: 2.633 ms

Remote clock offset: 1.683 ms

# Below is generated by plot.py at 2019-01-21 07:18:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 942.45 Mbit/s

95th percentile per-packet one-way delay: 129.533 ms

Loss rate: 0.41%

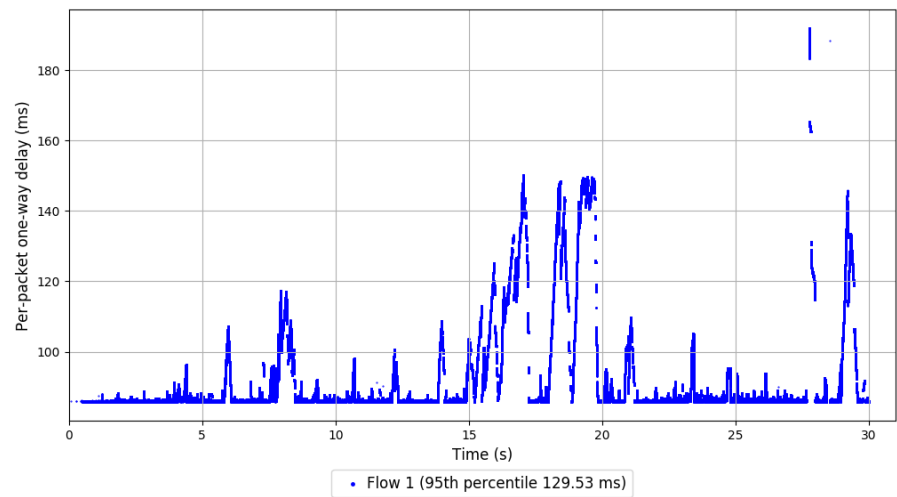
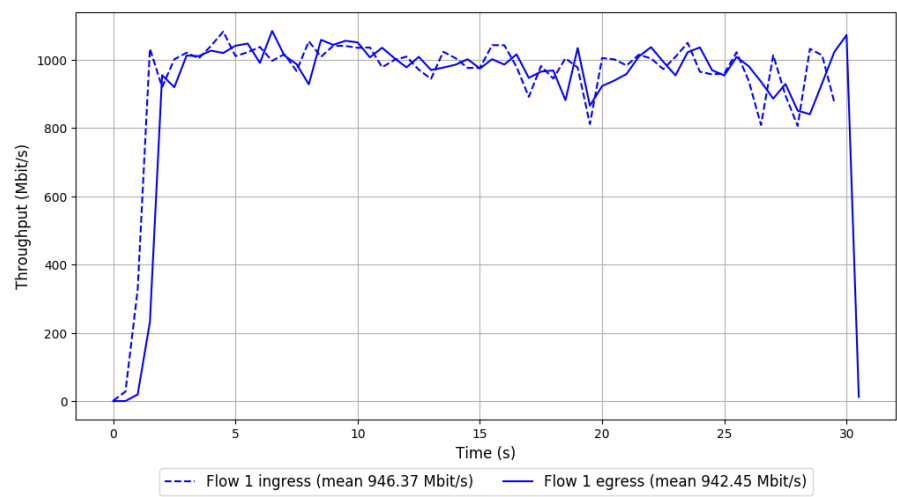
-- Flow 1:

Average throughput: 942.45 Mbit/s

95th percentile per-packet one-way delay: 129.533 ms

Loss rate: 0.41%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-21 03:54:25

End at: 2019-01-21 03:54:55

Local clock offset: 13.675 ms

Remote clock offset: 13.32 ms

# Below is generated by plot.py at 2019-01-21 07:18:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 945.96 Mbit/s

95th percentile per-packet one-way delay: 95.259 ms

Loss rate: 0.22%

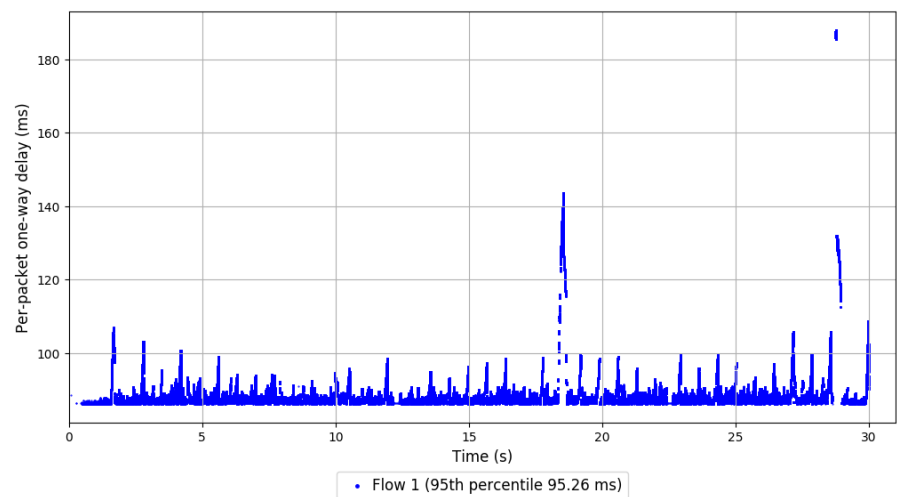
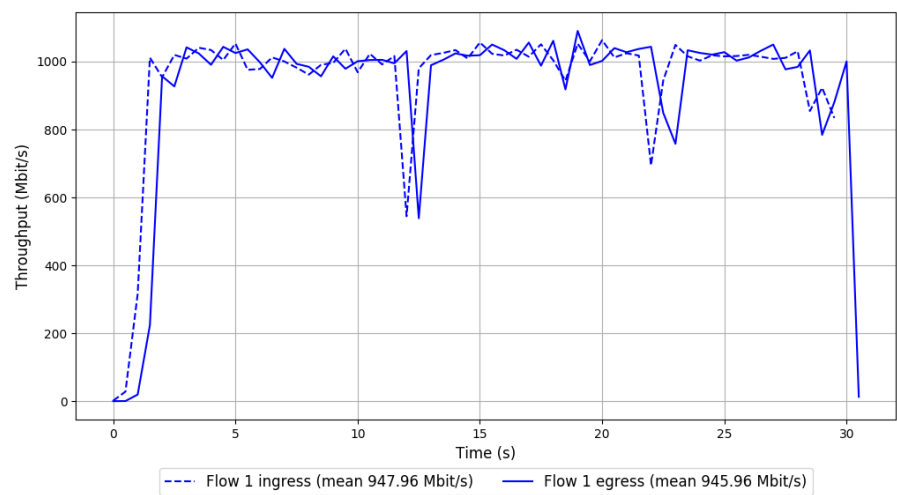
-- Flow 1:

Average throughput: 945.96 Mbit/s

95th percentile per-packet one-way delay: 95.259 ms

Loss rate: 0.22%

Run 1: Report of FillP-Sheep — Data Link

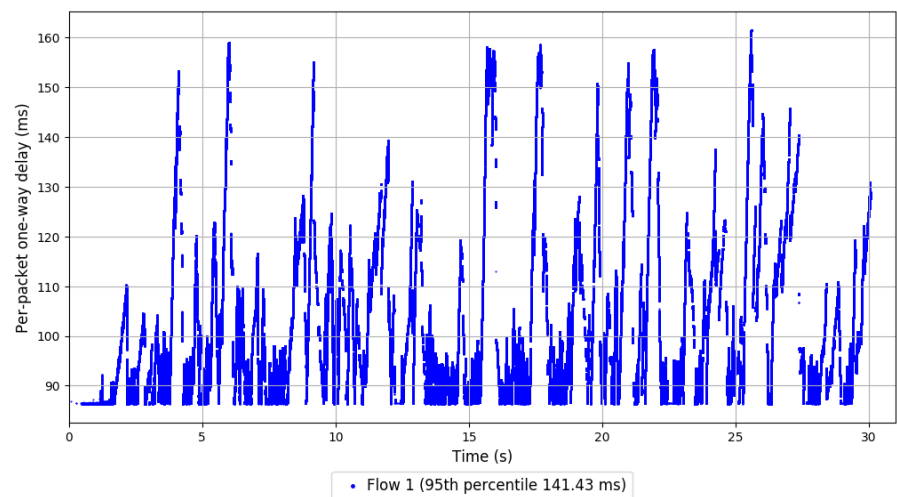
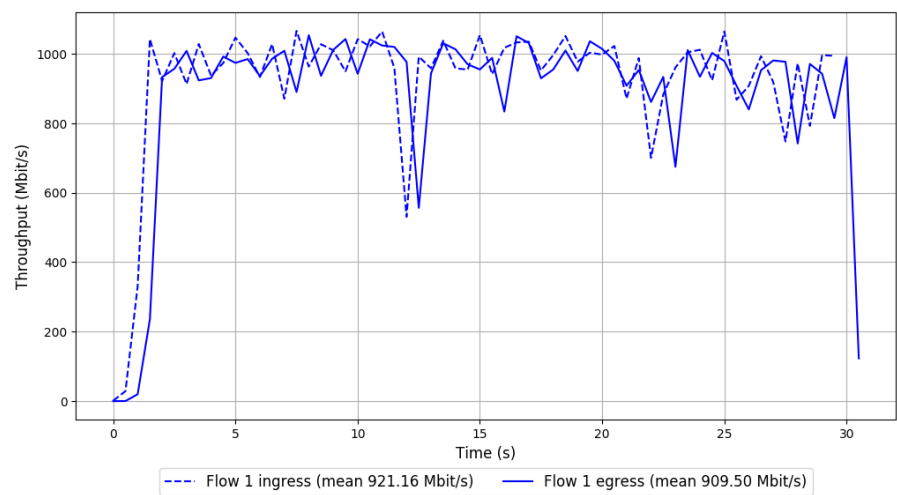


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-21 04:25:50  
End at: 2019-01-21 04:26:20  
Local clock offset: 24.794 ms  
Remote clock offset: 24.539 ms

# Below is generated by plot.py at 2019-01-21 07:19:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 909.50 Mbit/s  
95th percentile per-packet one-way delay: 141.430 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 909.50 Mbit/s  
95th percentile per-packet one-way delay: 141.430 ms  
Loss rate: 1.27%

Run 2: Report of FillP-Sheep — Data Link

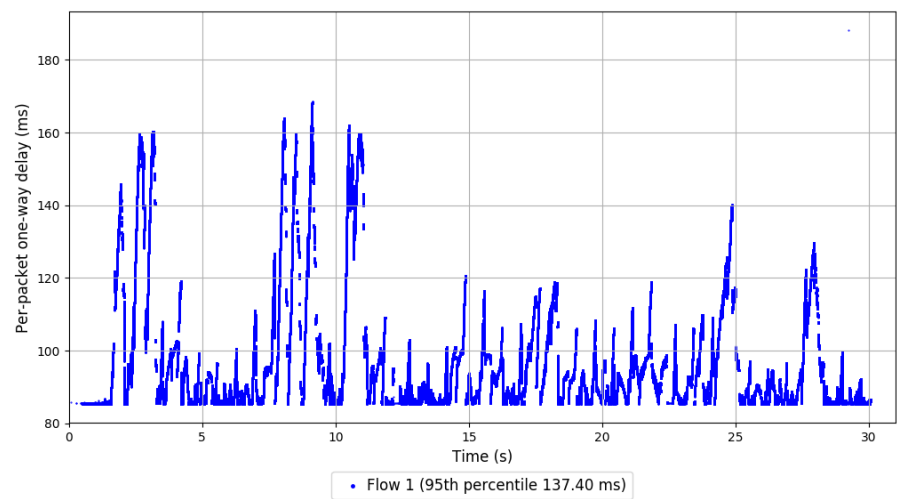
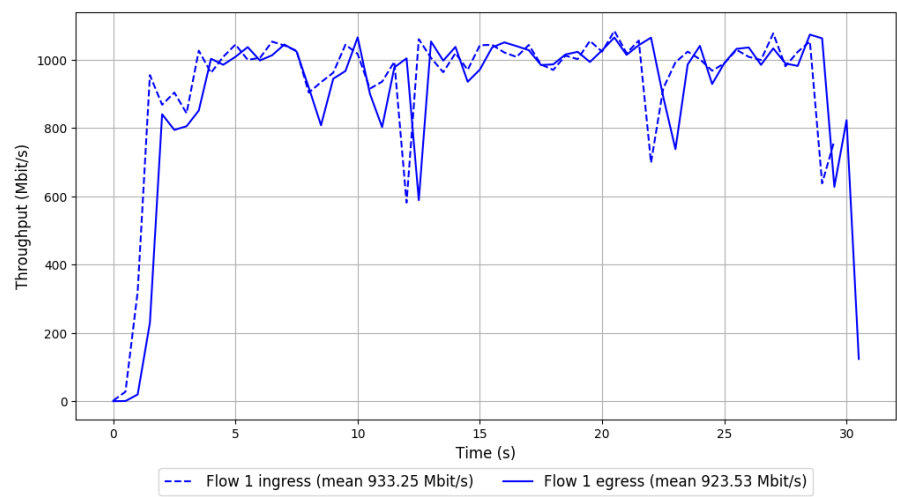


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-21 04:57:28  
End at: 2019-01-21 04:57:58  
Local clock offset: 16.434 ms  
Remote clock offset: 15.386 ms

# Below is generated by plot.py at 2019-01-21 07:20:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 923.53 Mbit/s  
95th percentile per-packet one-way delay: 137.398 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 923.53 Mbit/s  
95th percentile per-packet one-way delay: 137.398 ms  
Loss rate: 1.04%

Run 3: Report of FillP-Sheep — Data Link

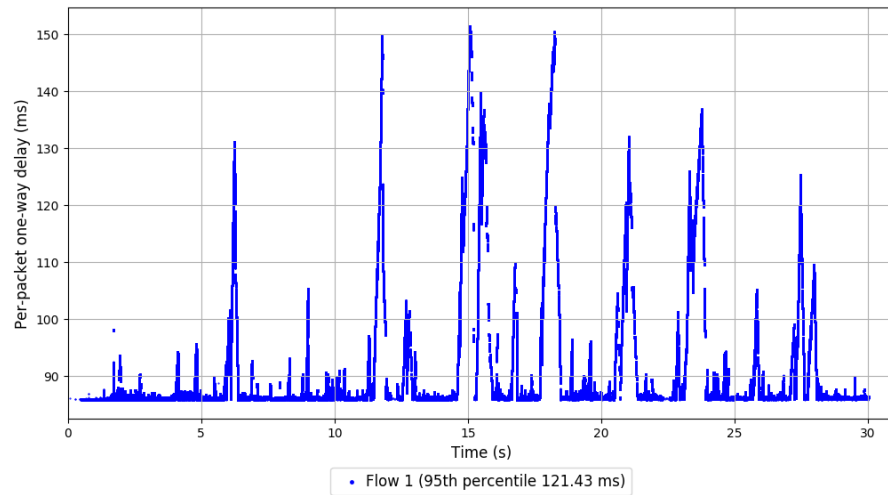
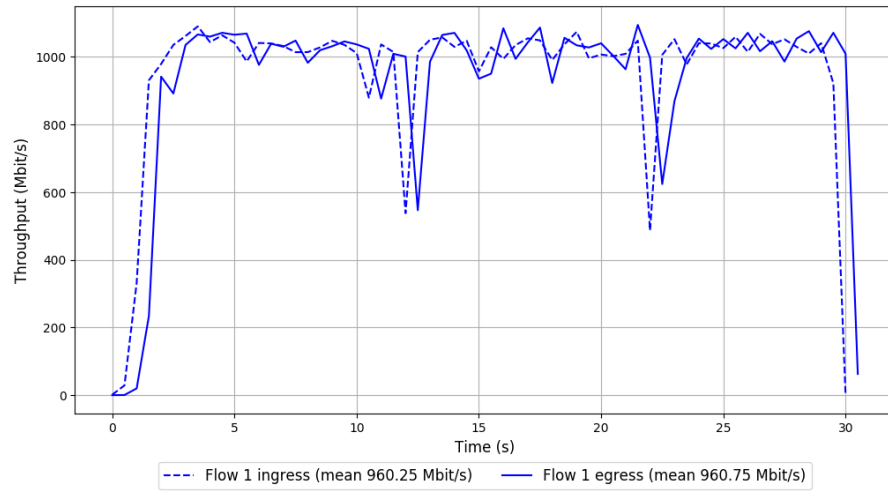


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-21 05:29:10  
End at: 2019-01-21 05:29:40  
Local clock offset: 8.127 ms  
Remote clock offset: 5.87 ms

# Below is generated by plot.py at 2019-01-21 07:36:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 960.75 Mbit/s  
95th percentile per-packet one-way delay: 121.434 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 960.75 Mbit/s  
95th percentile per-packet one-way delay: 121.434 ms  
Loss rate: 0.21%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-21 06:00:44

End at: 2019-01-21 06:01:14

Local clock offset: 3.355 ms

Remote clock offset: 1.939 ms

# Below is generated by plot.py at 2019-01-21 07:43:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 927.01 Mbit/s

95th percentile per-packet one-way delay: 119.806 ms

Loss rate: 0.28%

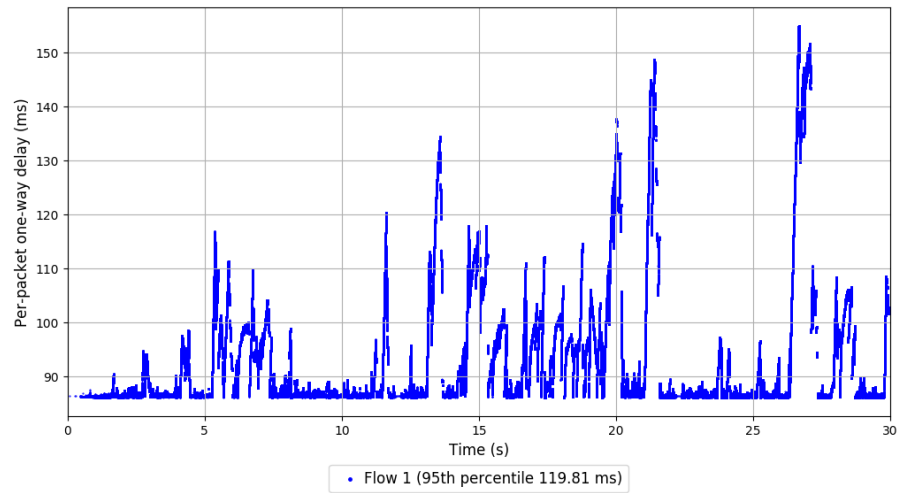
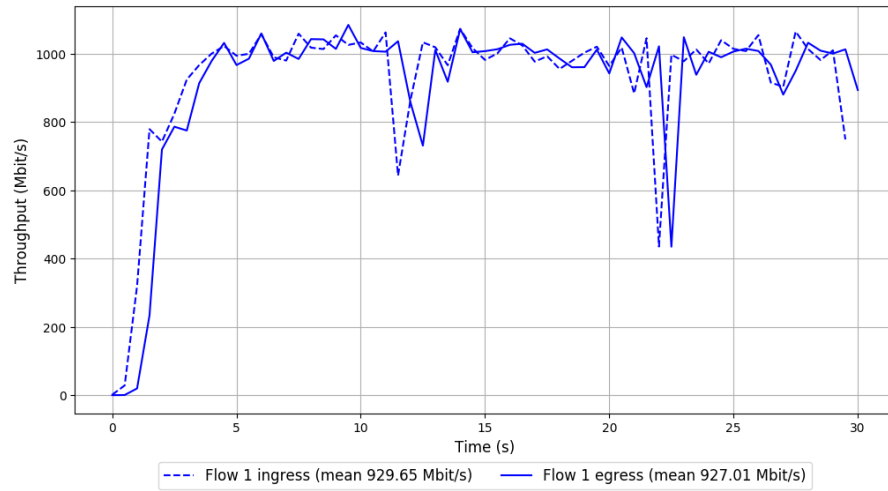
-- Flow 1:

Average throughput: 927.01 Mbit/s

95th percentile per-packet one-way delay: 119.806 ms

Loss rate: 0.28%

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

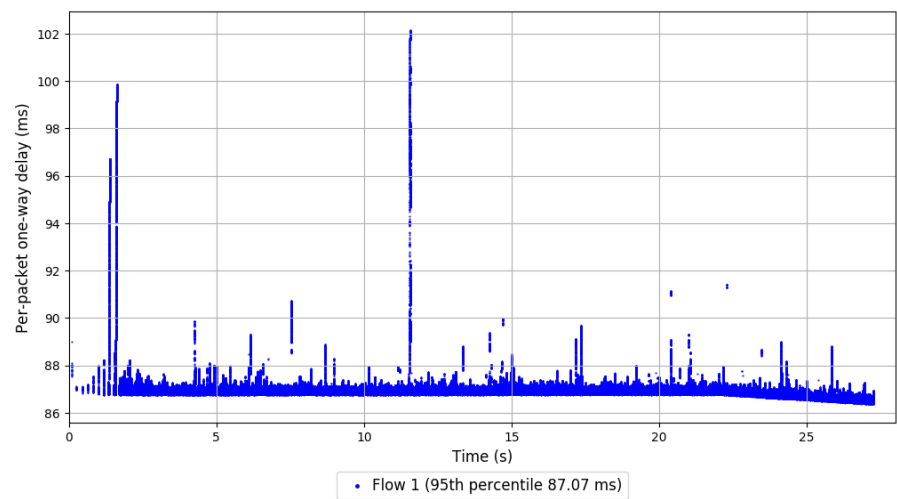
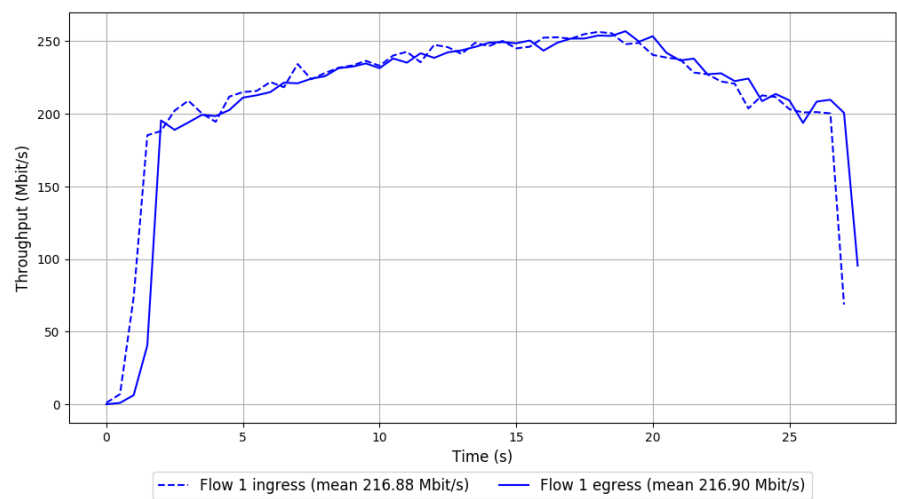


Run 1: Statistics of Indigo

Start at: 2019-01-21 03:49:44  
End at: 2019-01-21 03:50:14  
Local clock offset: 16.562 ms  
Remote clock offset: 16.703 ms

# Below is generated by plot.py at 2019-01-21 07:43:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 216.90 Mbit/s  
95th percentile per-packet one-way delay: 87.069 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 216.90 Mbit/s  
95th percentile per-packet one-way delay: 87.069 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

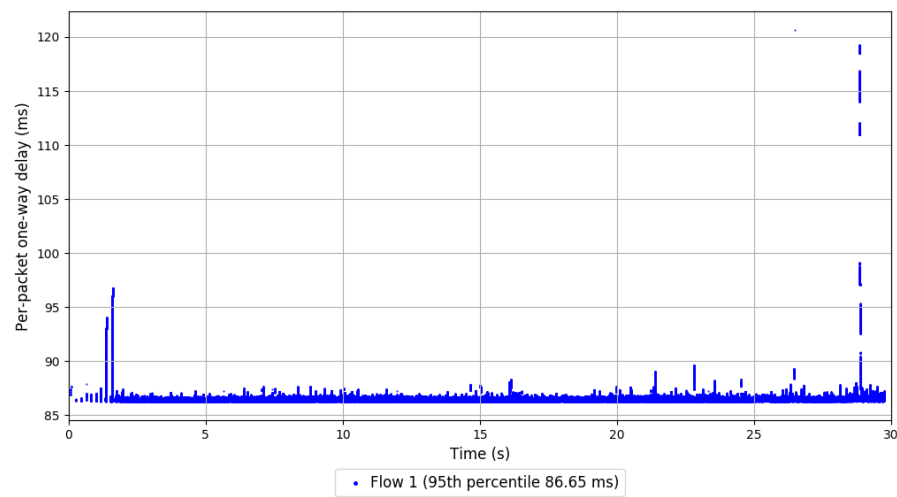
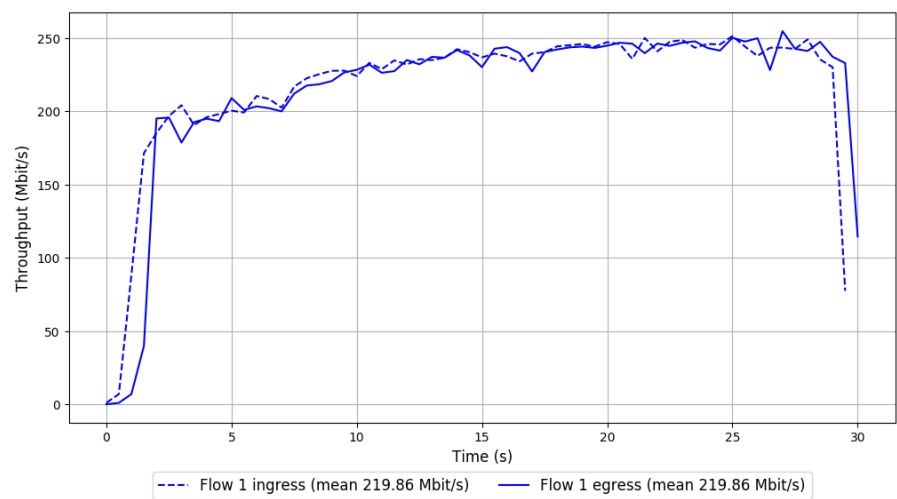


Run 2: Statistics of Indigo

Start at: 2019-01-21 04:21:15  
End at: 2019-01-21 04:21:45  
Local clock offset: 22.076 ms  
Remote clock offset: 21.554 ms

# Below is generated by plot.py at 2019-01-21 07:43:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 219.86 Mbit/s  
95th percentile per-packet one-way delay: 86.651 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 219.86 Mbit/s  
95th percentile per-packet one-way delay: 86.651 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

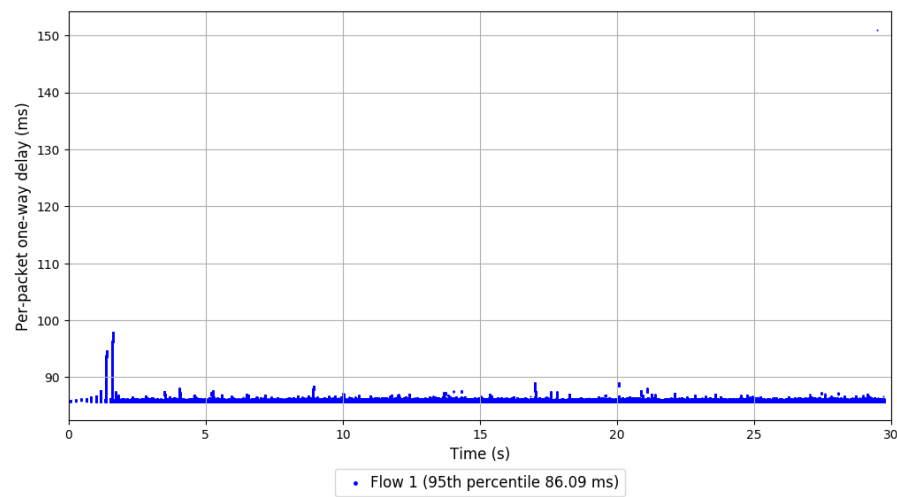
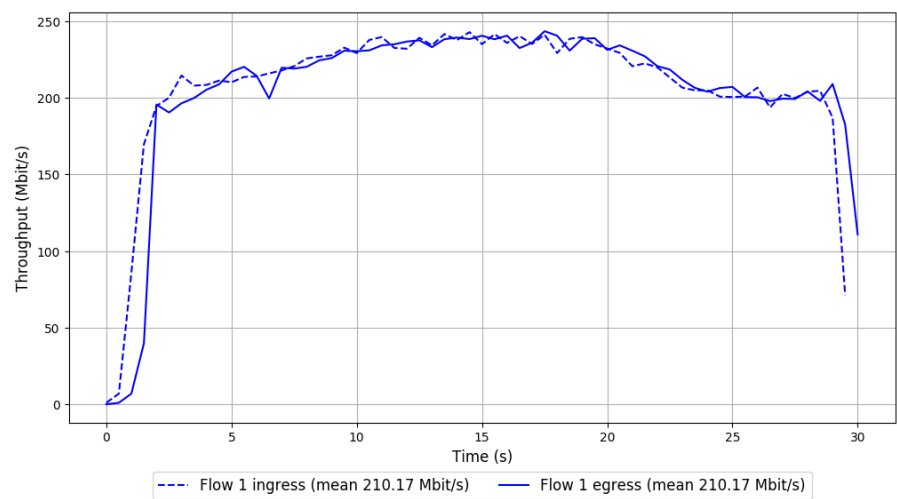


Run 3: Statistics of Indigo

Start at: 2019-01-21 04:52:47  
End at: 2019-01-21 04:53:17  
Local clock offset: 17.904 ms  
Remote clock offset: 17.396 ms

# Below is generated by plot.py at 2019-01-21 07:43:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 210.17 Mbit/s  
95th percentile per-packet one-way delay: 86.090 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 210.17 Mbit/s  
95th percentile per-packet one-way delay: 86.090 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-01-21 05:24:32

End at: 2019-01-21 05:25:02

Local clock offset: 10.061 ms

Remote clock offset: 8.422 ms

# Below is generated by plot.py at 2019-01-21 07:43:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.44 Mbit/s

95th percentile per-packet one-way delay: 86.763 ms

Loss rate: 0.00%

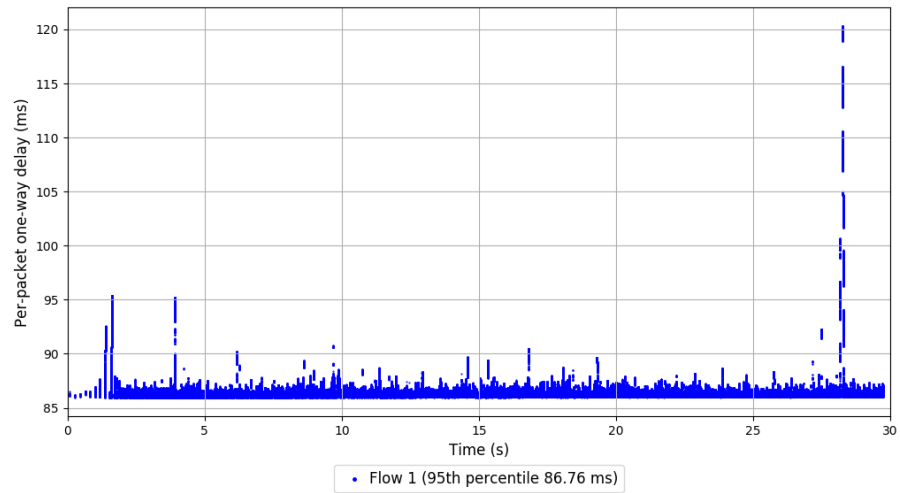
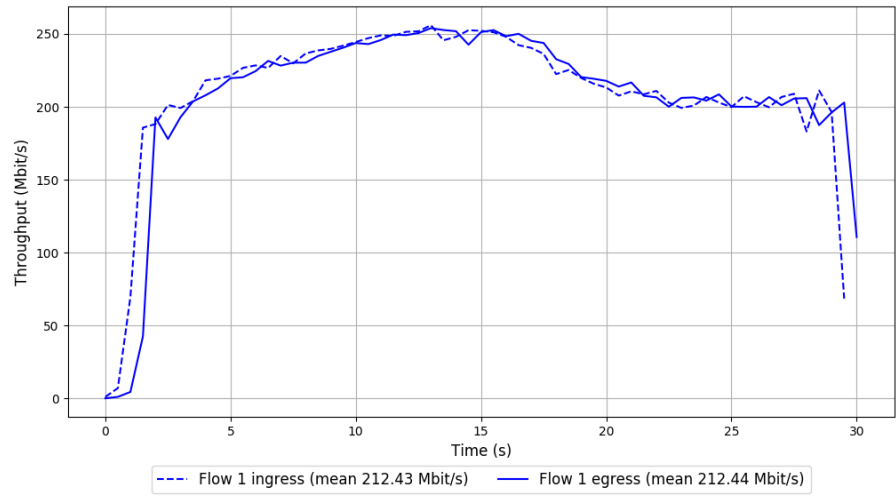
-- Flow 1:

Average throughput: 212.44 Mbit/s

95th percentile per-packet one-way delay: 86.763 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo

Start at: 2019-01-21 05:56:01

End at: 2019-01-21 05:56:31

Local clock offset: 5.055 ms

Remote clock offset: 2.721 ms

# Below is generated by plot.py at 2019-01-21 07:43:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 216.86 Mbit/s

95th percentile per-packet one-way delay: 86.405 ms

Loss rate: 0.01%

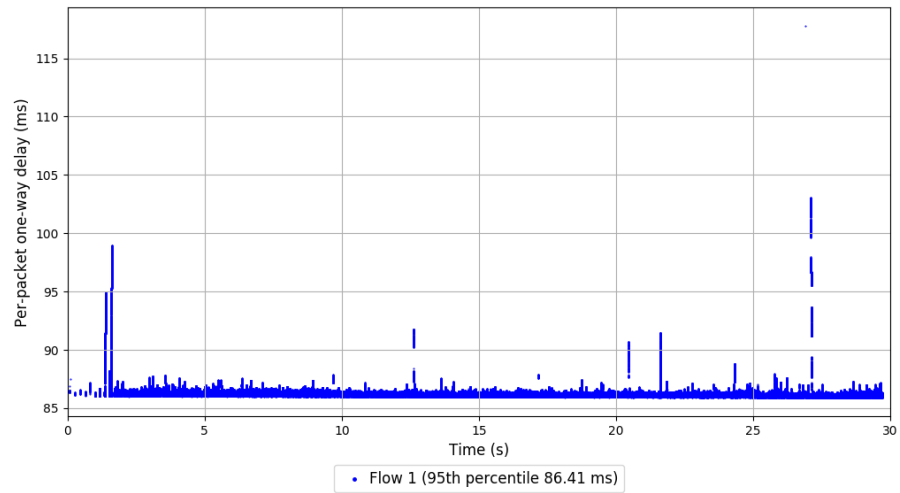
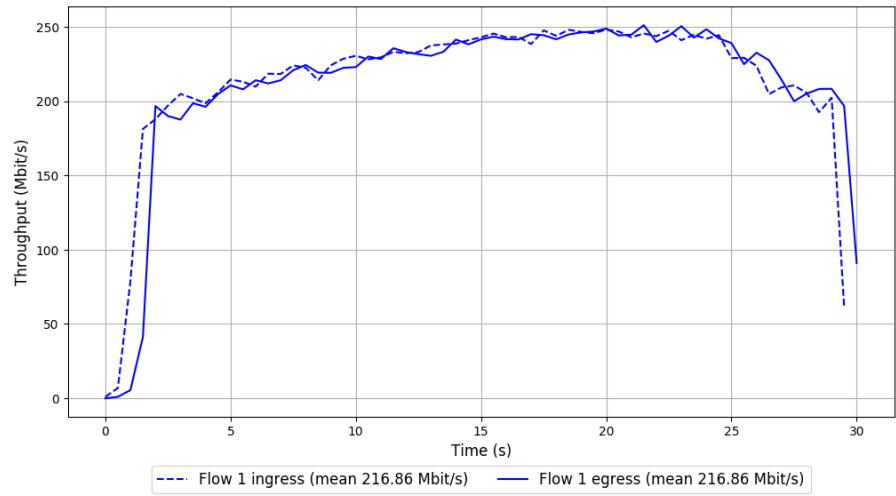
-- Flow 1:

Average throughput: 216.86 Mbit/s

95th percentile per-packet one-way delay: 86.405 ms

Loss rate: 0.01%

## Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

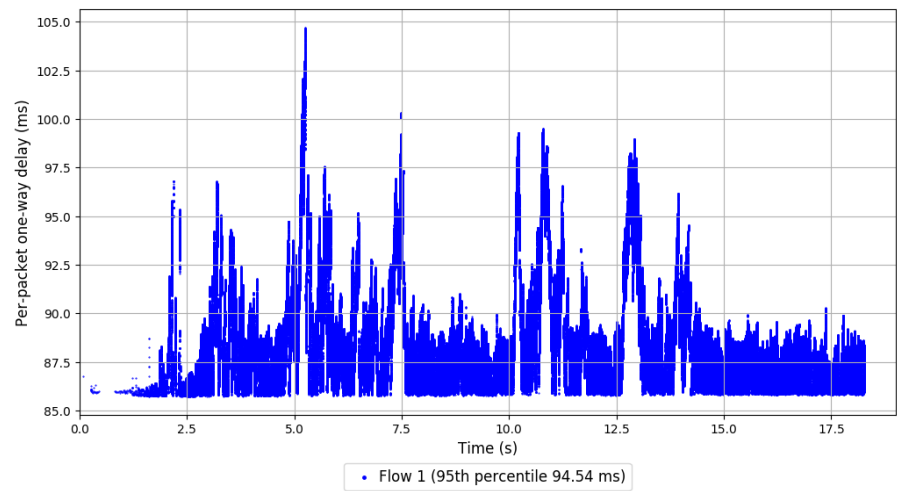
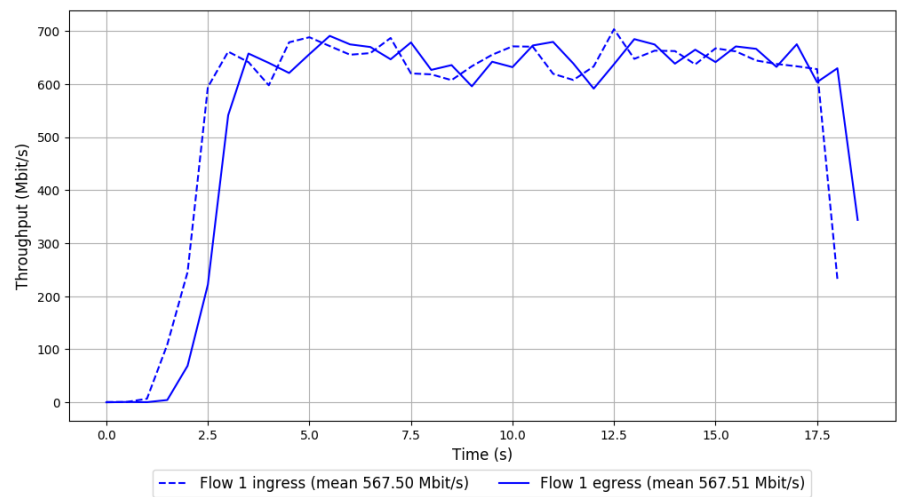
Start at: 2019-01-21 03:38:08

End at: 2019-01-21 03:38:38

Local clock offset: 6.688 ms

Remote clock offset: 6.234 ms

Run 1: Report of Indigo-MusesC3 — Data Link

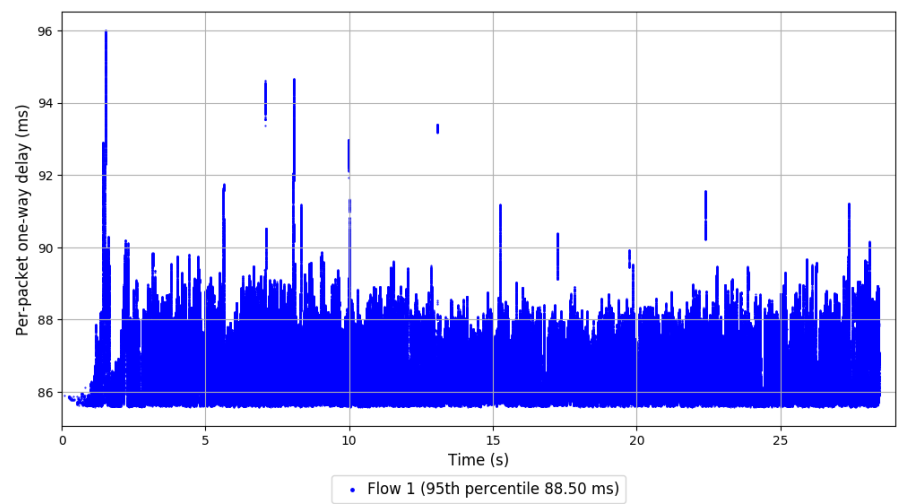
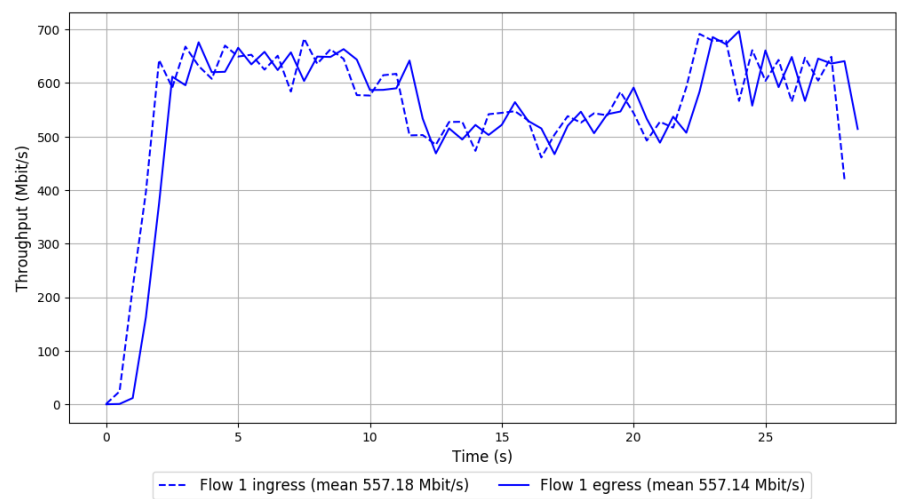


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-21 04:09:50  
End at: 2019-01-21 04:10:20  
Local clock offset: 23.938 ms  
Remote clock offset: 23.231 ms

# Below is generated by plot.py at 2019-01-21 07:43:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 557.14 Mbit/s  
95th percentile per-packet one-way delay: 88.501 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 557.14 Mbit/s  
95th percentile per-packet one-way delay: 88.501 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



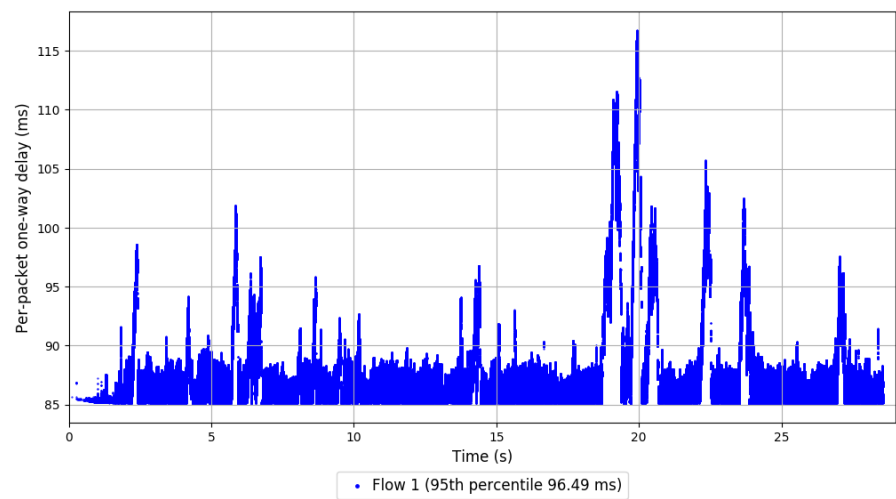
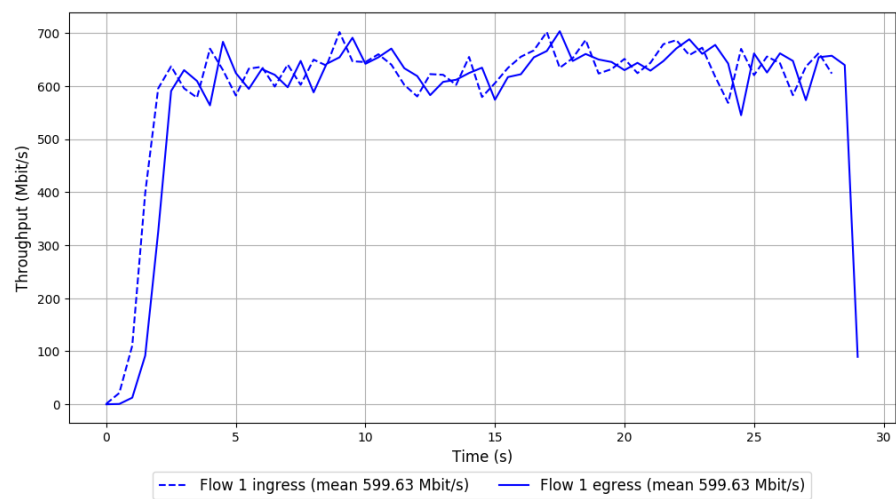


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-21 04:41:24  
End at: 2019-01-21 04:41:54  
Local clock offset: 41.51 ms  
Remote clock offset: 40.253 ms

# Below is generated by plot.py at 2019-01-21 07:43:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 599.63 Mbit/s  
95th percentile per-packet one-way delay: 96.494 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 599.63 Mbit/s  
95th percentile per-packet one-way delay: 96.494 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link

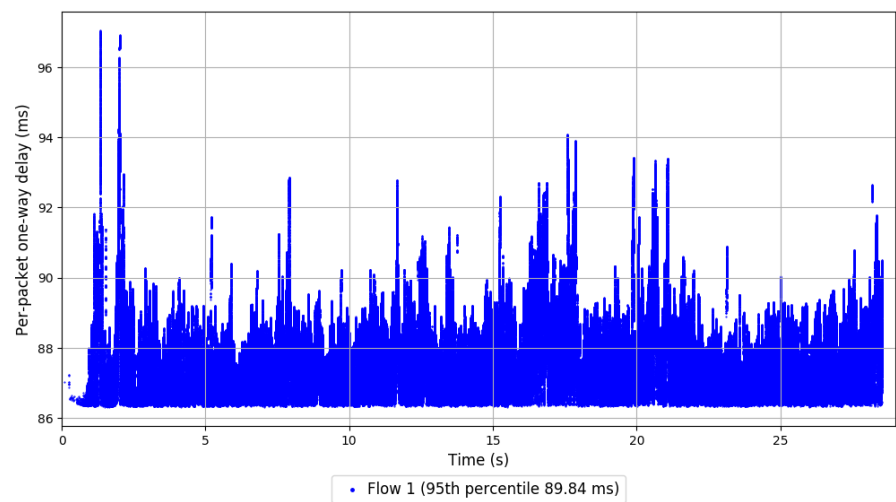
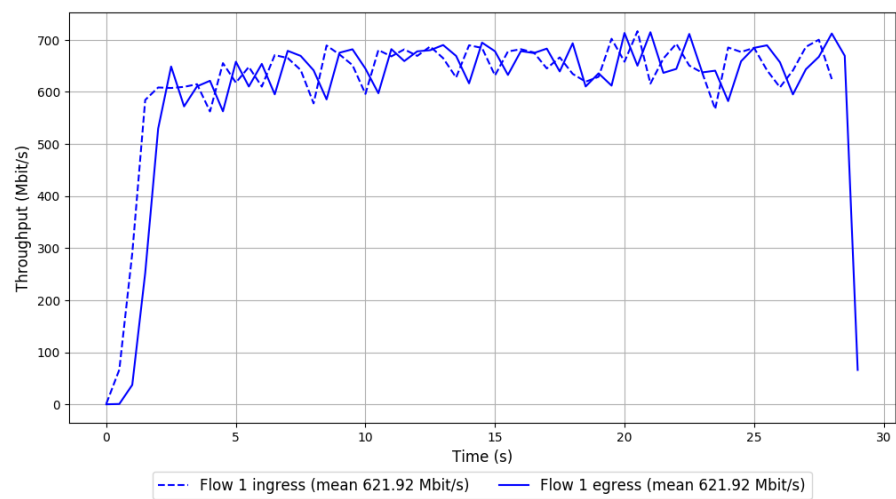


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-21 05:13:03  
End at: 2019-01-21 05:13:33  
Local clock offset: 19.521 ms  
Remote clock offset: 19.135 ms

# Below is generated by plot.py at 2019-01-21 07:43:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 621.92 Mbit/s  
95th percentile per-packet one-way delay: 89.836 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 621.92 Mbit/s  
95th percentile per-packet one-way delay: 89.836 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-21 05:44:31

End at: 2019-01-21 05:45:01

Local clock offset: 8.732 ms

Remote clock offset: 4.339 ms

# Below is generated by plot.py at 2019-01-21 07:43:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 596.48 Mbit/s

95th percentile per-packet one-way delay: 112.283 ms

Loss rate: 0.00%

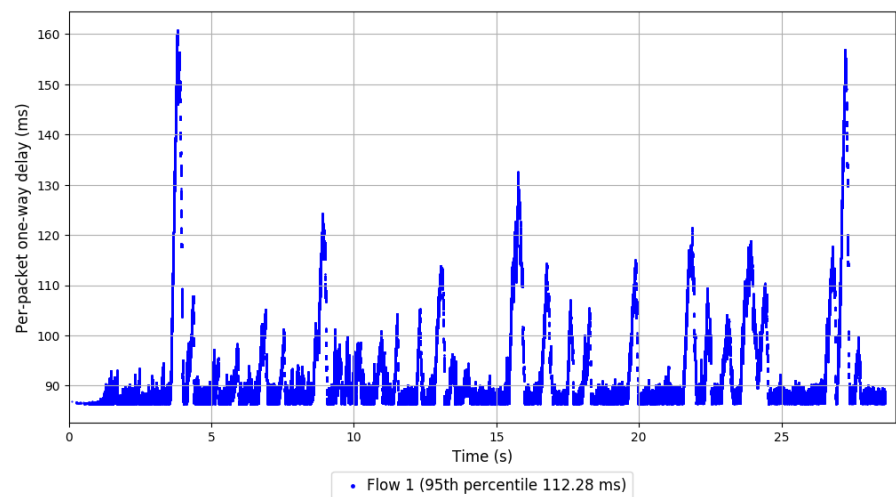
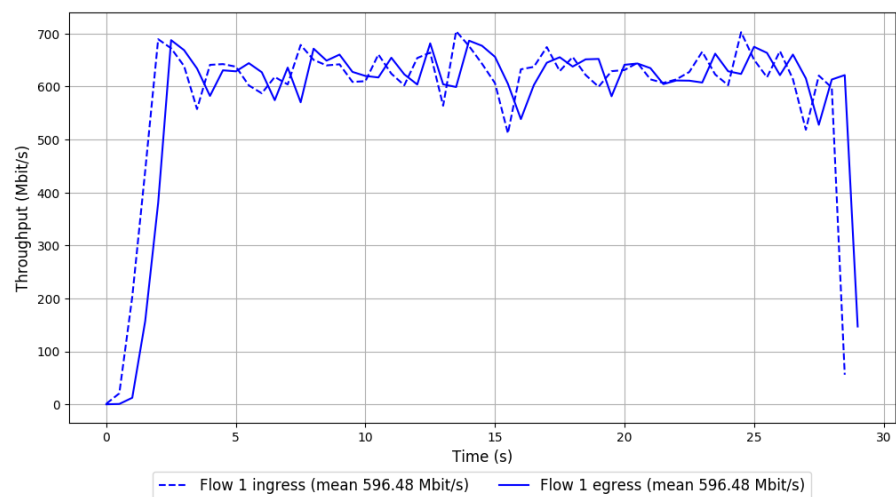
-- Flow 1:

Average throughput: 596.48 Mbit/s

95th percentile per-packet one-way delay: 112.283 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

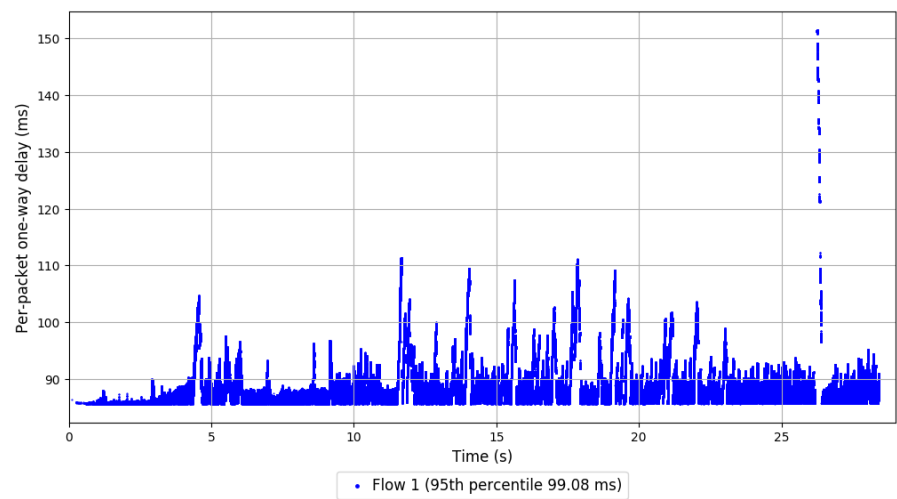
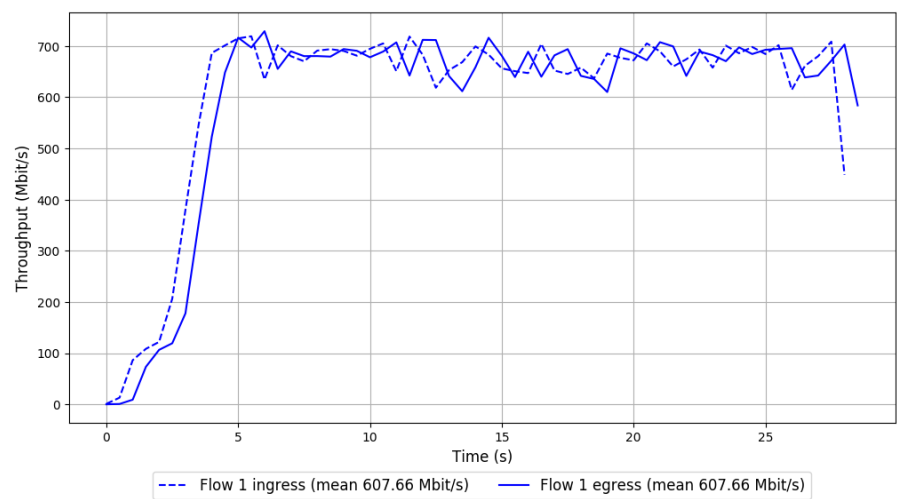


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-21 03:42:35  
End at: 2019-01-21 03:43:05  
Local clock offset: 10.499 ms  
Remote clock offset: 10.273 ms

# Below is generated by plot.py at 2019-01-21 07:44:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 607.66 Mbit/s  
95th percentile per-packet one-way delay: 99.083 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 607.66 Mbit/s  
95th percentile per-packet one-way delay: 99.083 ms  
Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link



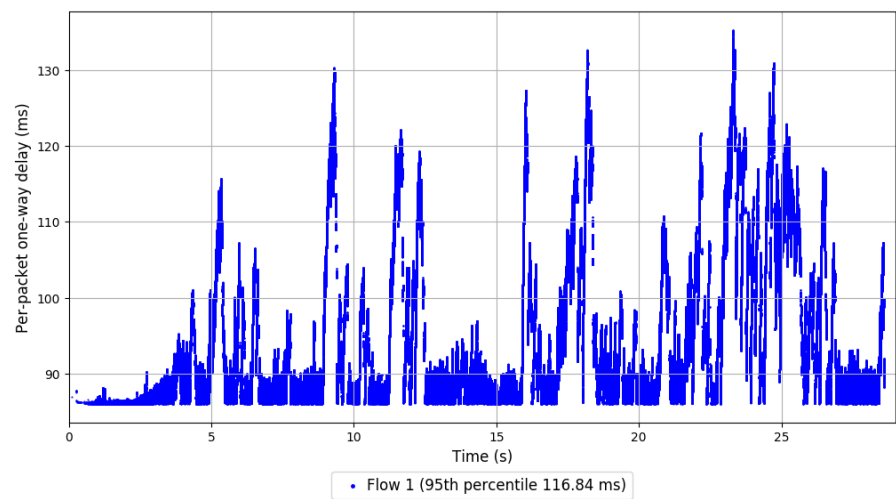
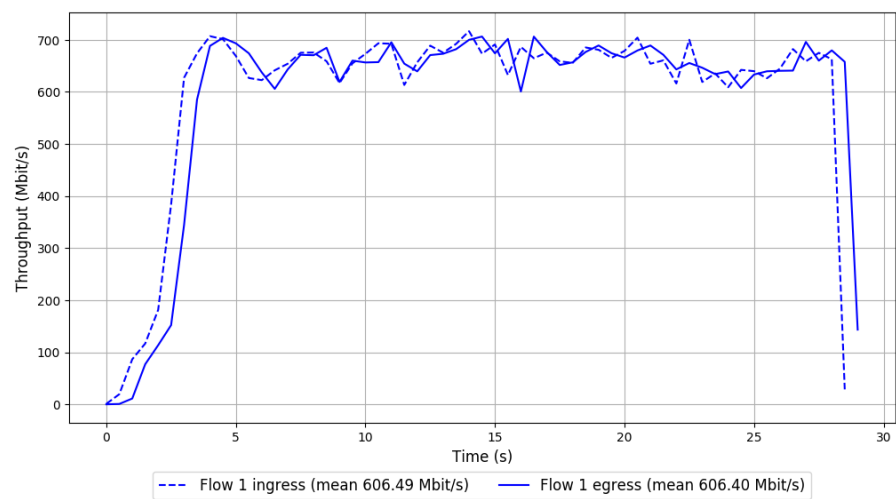


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-21 04:14:13  
End at: 2019-01-21 04:14:44  
Local clock offset: 21.048 ms  
Remote clock offset: 20.188 ms

# Below is generated by plot.py at 2019-01-21 07:44:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 606.40 Mbit/s  
95th percentile per-packet one-way delay: 116.845 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 606.40 Mbit/s  
95th percentile per-packet one-way delay: 116.845 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-21 04:45:47

End at: 2019-01-21 04:46:17

Local clock offset: 27.633 ms

Remote clock offset: 27.05 ms

# Below is generated by plot.py at 2019-01-21 07:52:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 607.92 Mbit/s

95th percentile per-packet one-way delay: 115.829 ms

Loss rate: 0.11%

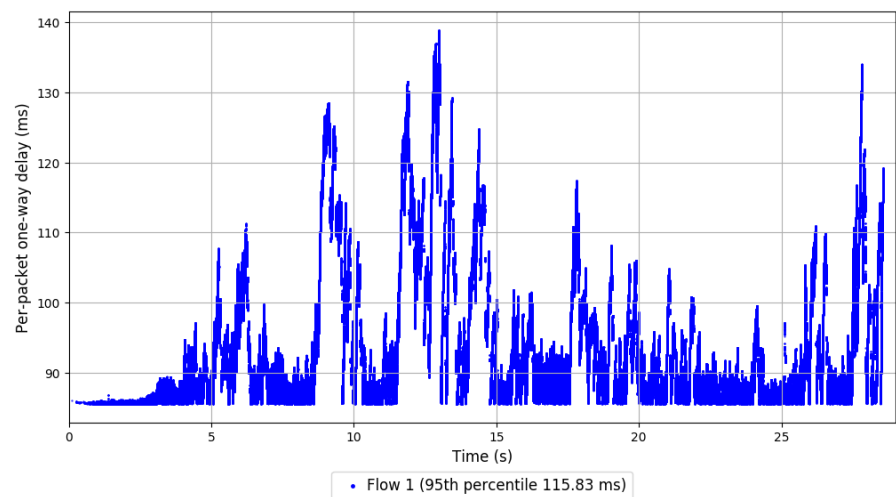
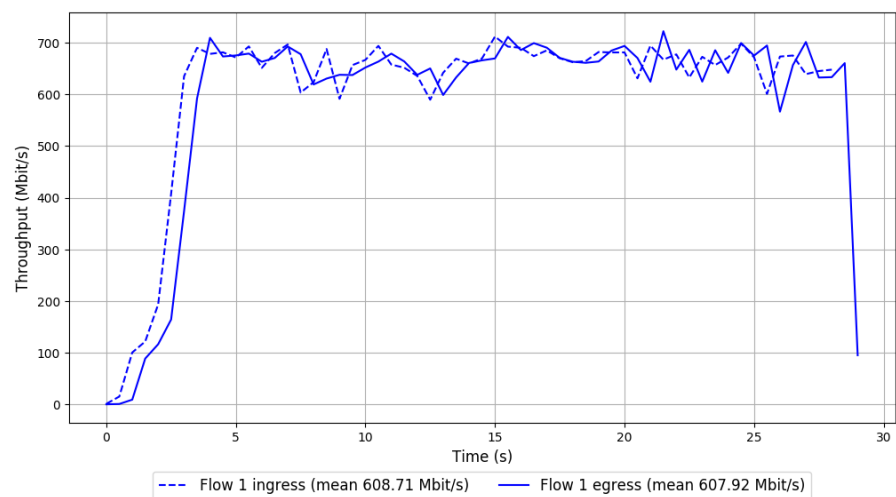
-- Flow 1:

Average throughput: 607.92 Mbit/s

95th percentile per-packet one-way delay: 115.829 ms

Loss rate: 0.11%

Run 3: Report of Indigo-MusesC5 — Data Link

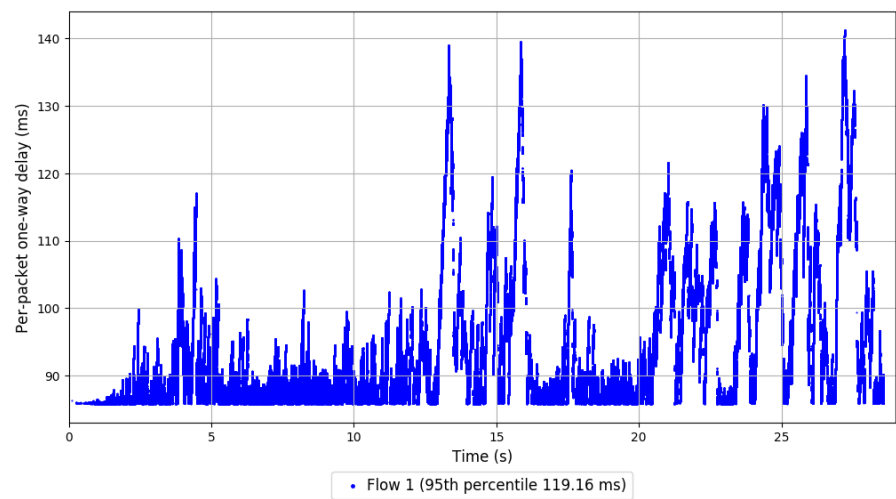
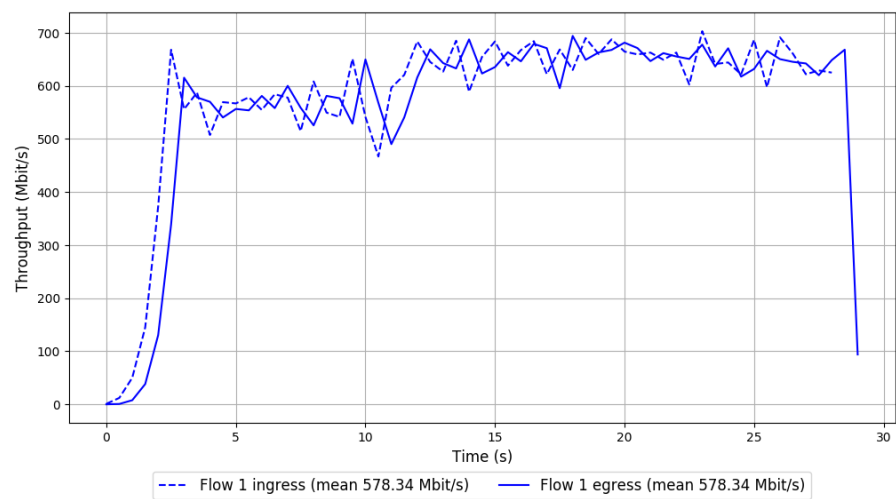


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-21 05:17:25  
End at: 2019-01-21 05:17:55  
Local clock offset: 17.978 ms  
Remote clock offset: 17.041 ms

# Below is generated by plot.py at 2019-01-21 07:53:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 578.34 Mbit/s  
95th percentile per-packet one-way delay: 119.158 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 578.34 Mbit/s  
95th percentile per-packet one-way delay: 119.158 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-21 05:48:54

End at: 2019-01-21 05:49:24

Local clock offset: 9.838 ms

Remote clock offset: 4.595 ms

# Below is generated by plot.py at 2019-01-21 07:56:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 573.17 Mbit/s

95th percentile per-packet one-way delay: 117.685 ms

Loss rate: 0.00%

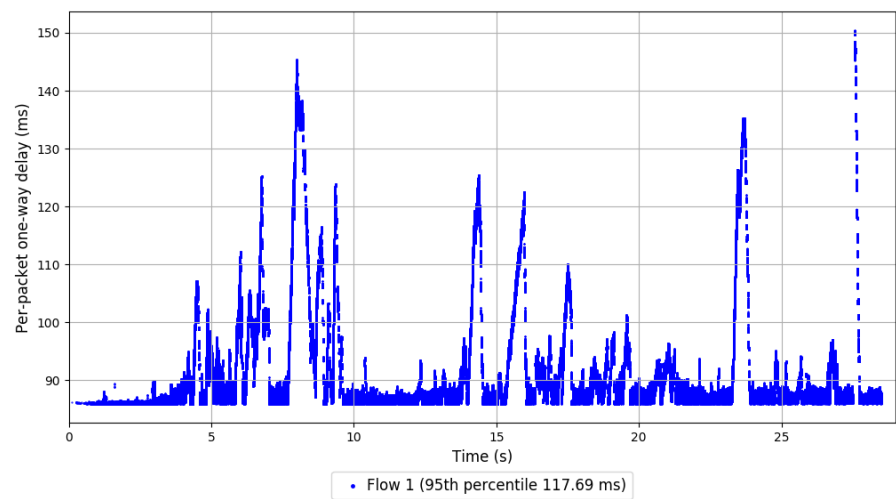
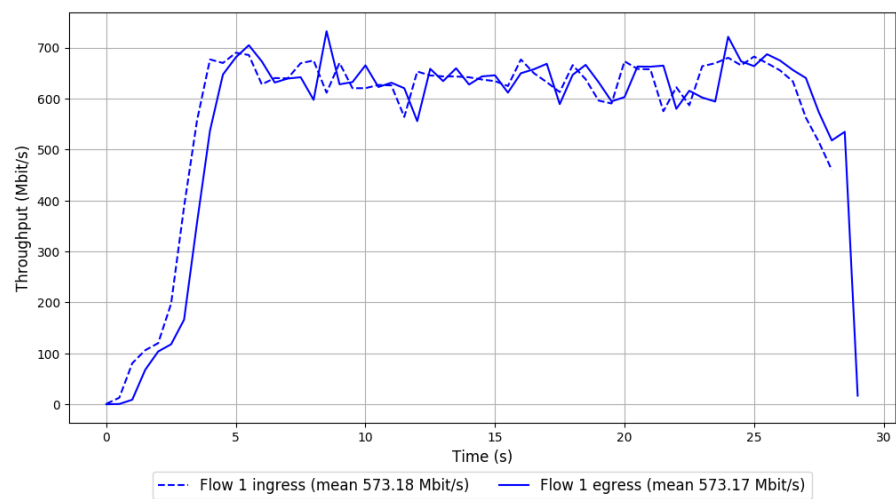
-- Flow 1:

Average throughput: 573.17 Mbit/s

95th percentile per-packet one-way delay: 117.685 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



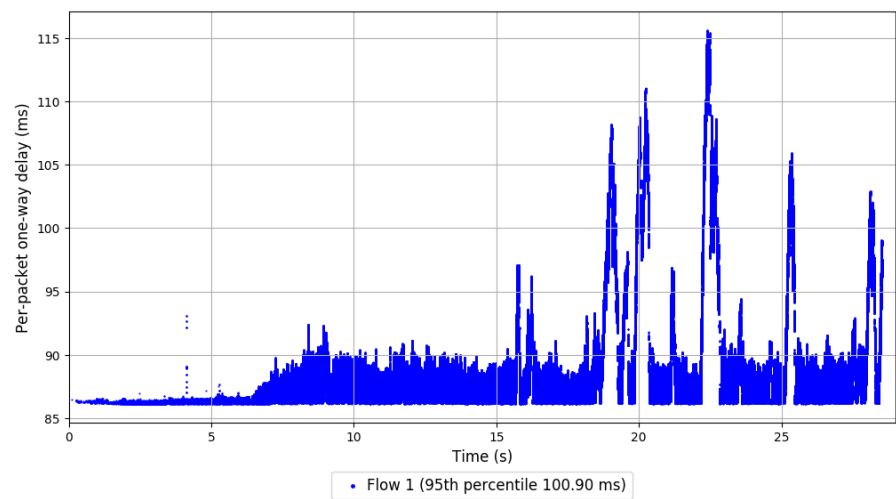
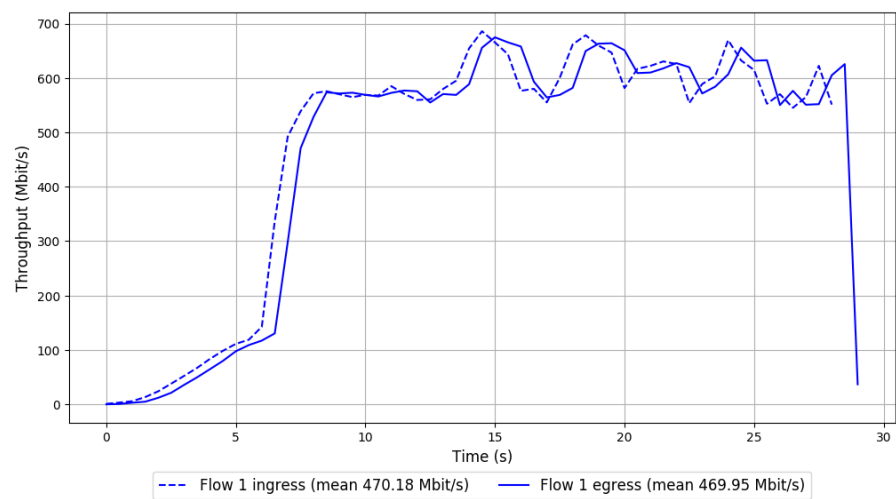


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-21 03:47:01
End at: 2019-01-21 03:47:31
Local clock offset: 12.185 ms
Remote clock offset: 11.929 ms

# Below is generated by plot.py at 2019-01-21 07:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 469.95 Mbit/s
95th percentile per-packet one-way delay: 100.904 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 469.95 Mbit/s
95th percentile per-packet one-way delay: 100.904 ms
Loss rate: 0.05%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-21 04:18:43

End at: 2019-01-21 04:19:13

Local clock offset: 20.442 ms

Remote clock offset: 20.42 ms

# Below is generated by plot.py at 2019-01-21 07:56:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 239.76 Mbit/s

95th percentile per-packet one-way delay: 88.096 ms

Loss rate: 0.00%

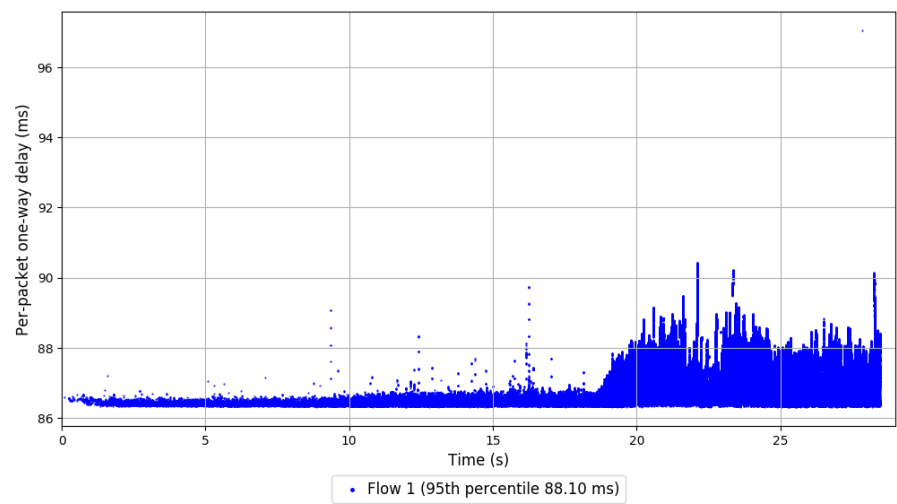
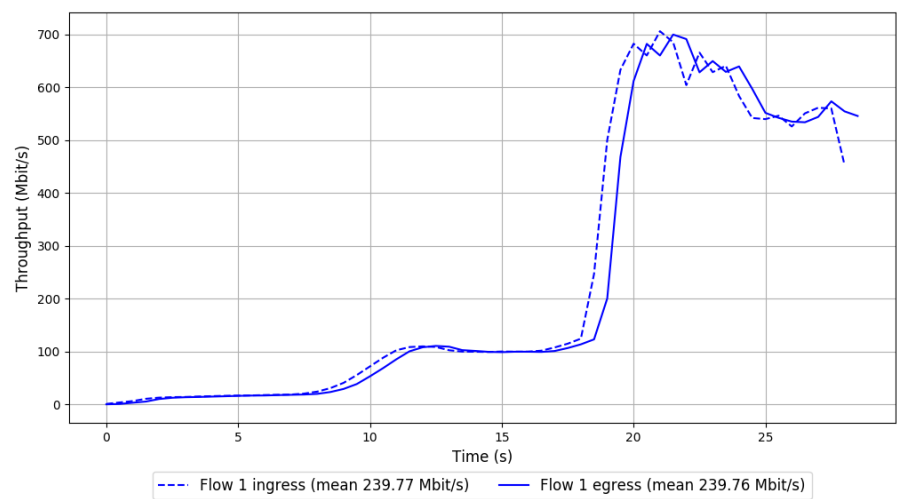
-- Flow 1:

Average throughput: 239.76 Mbit/s

95th percentile per-packet one-way delay: 88.096 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

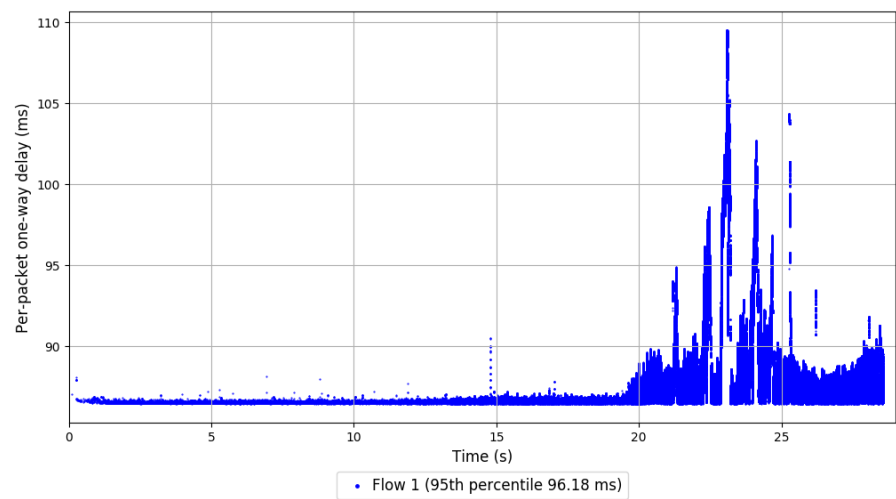
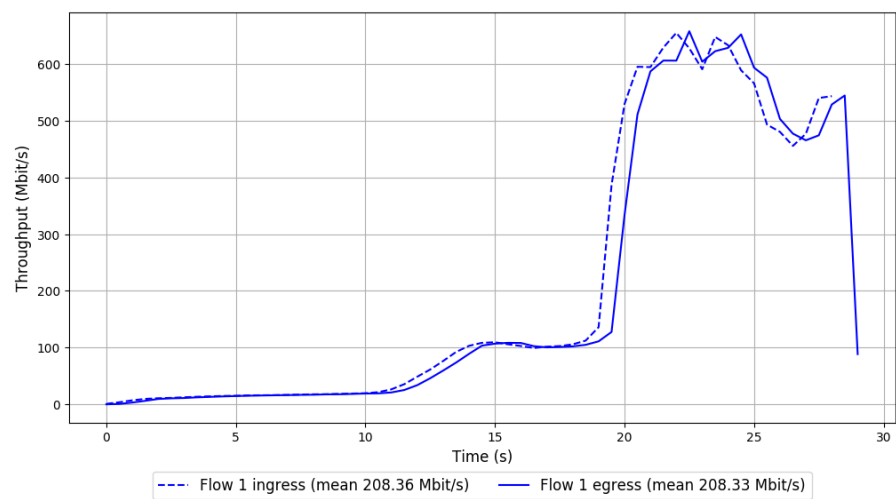


Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-21 04:50:17  
End at: 2019-01-21 04:50:47  
Local clock offset: 20.213 ms  
Remote clock offset: 19.698 ms

# Below is generated by plot.py at 2019-01-21 07:56:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 208.33 Mbit/s  
95th percentile per-packet one-way delay: 96.184 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 208.33 Mbit/s  
95th percentile per-packet one-way delay: 96.184 ms  
Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-21 05:21:54

End at: 2019-01-21 05:22:24

Local clock offset: 12.046 ms

Remote clock offset: 10.696 ms

# Below is generated by plot.py at 2019-01-21 07:56:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 334.56 Mbit/s

95th percentile per-packet one-way delay: 89.627 ms

Loss rate: 0.01%

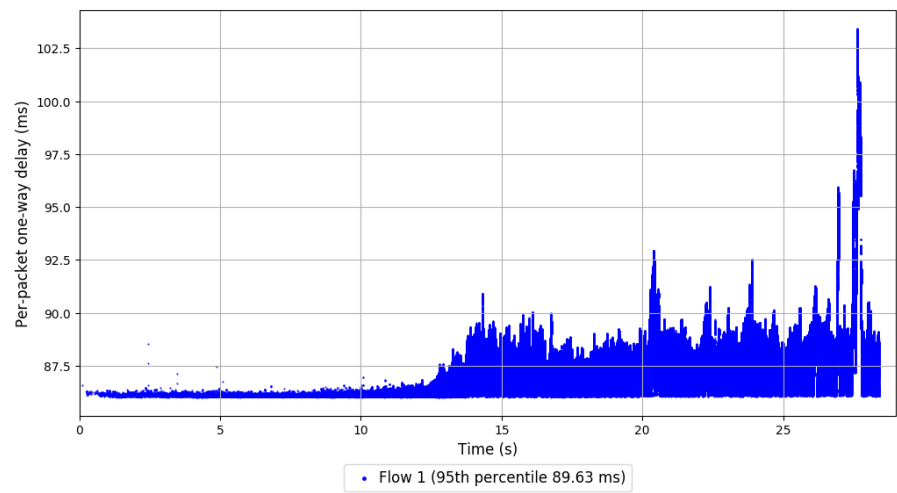
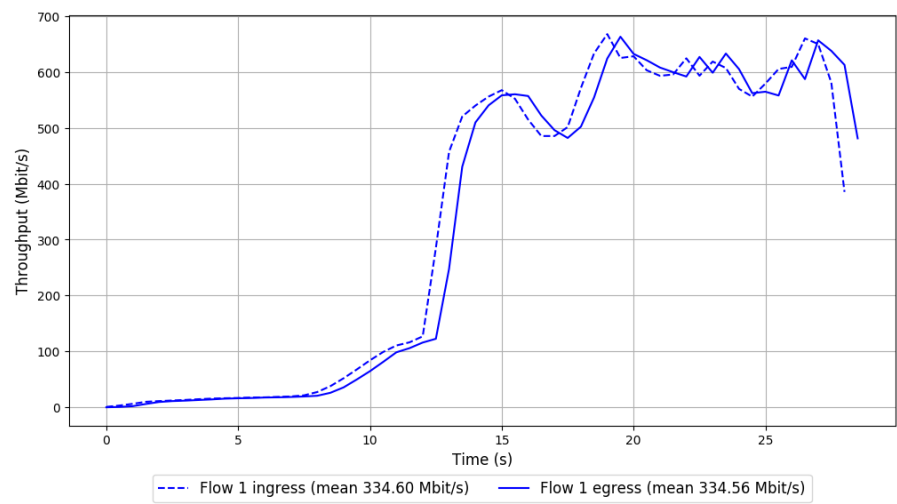
-- Flow 1:

Average throughput: 334.56 Mbit/s

95th percentile per-packet one-way delay: 89.627 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-21 05:53:23

End at: 2019-01-21 05:53:53

Local clock offset: 6.848 ms

Remote clock offset: 3.307 ms

# Below is generated by plot.py at 2019-01-21 07:56:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 335.97 Mbit/s

95th percentile per-packet one-way delay: 88.083 ms

Loss rate: 0.01%

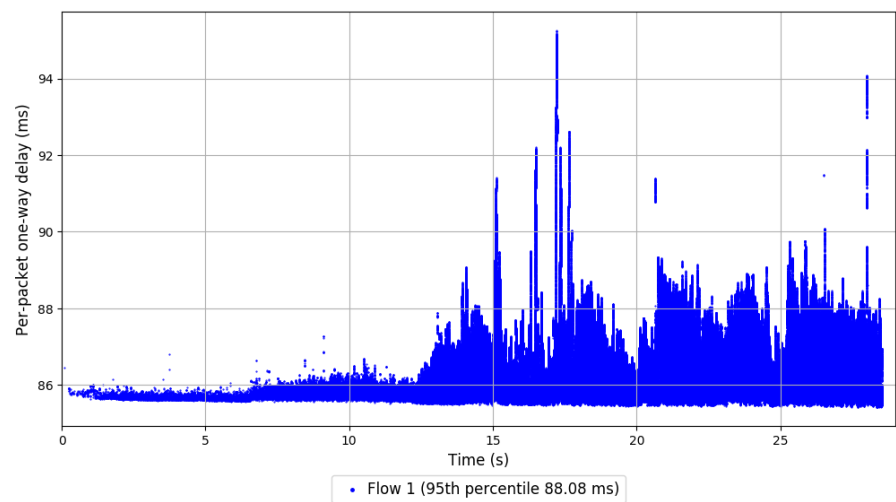
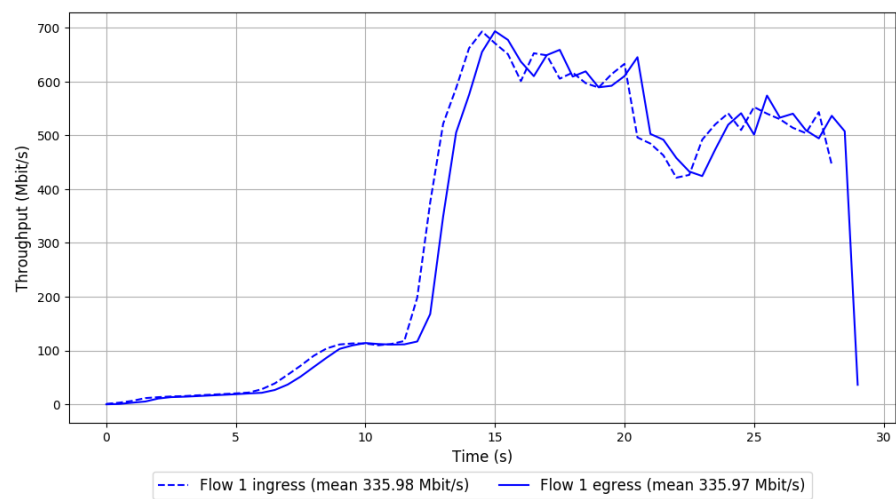
-- Flow 1:

Average throughput: 335.97 Mbit/s

95th percentile per-packet one-way delay: 88.083 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesD — Data Link

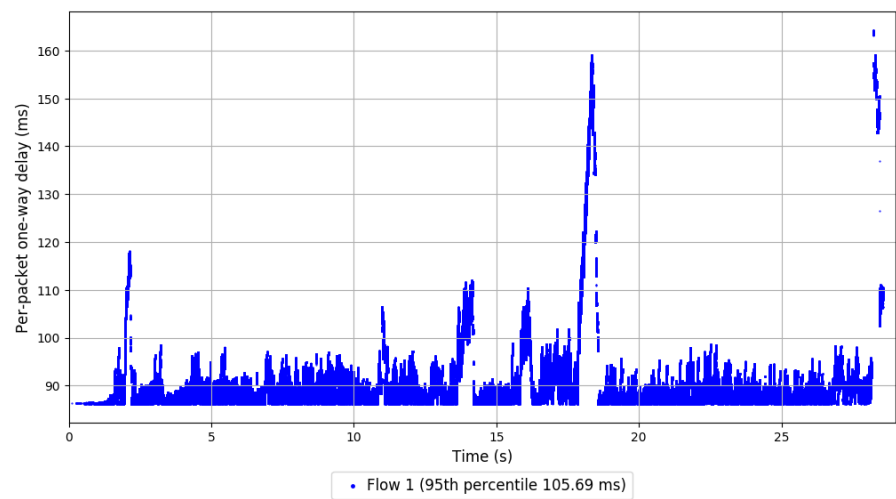
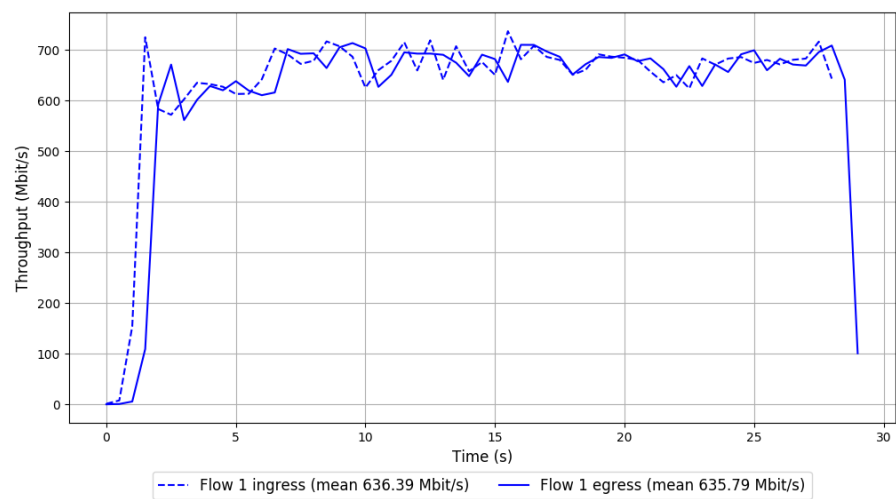


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-21 04:02:11
End at: 2019-01-21 04:02:41
Local clock offset: 19.861 ms
Remote clock offset: 19.457 ms

# Below is generated by plot.py at 2019-01-21 08:04:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 635.79 Mbit/s
95th percentile per-packet one-way delay: 105.690 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 635.79 Mbit/s
95th percentile per-packet one-way delay: 105.690 ms
Loss rate: 0.08%
```

Run 1: Report of Indigo-MusesT — Data Link

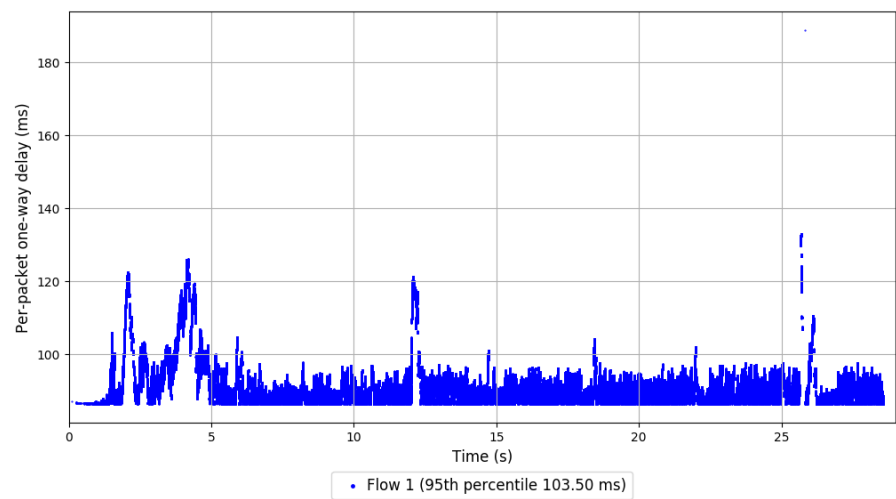
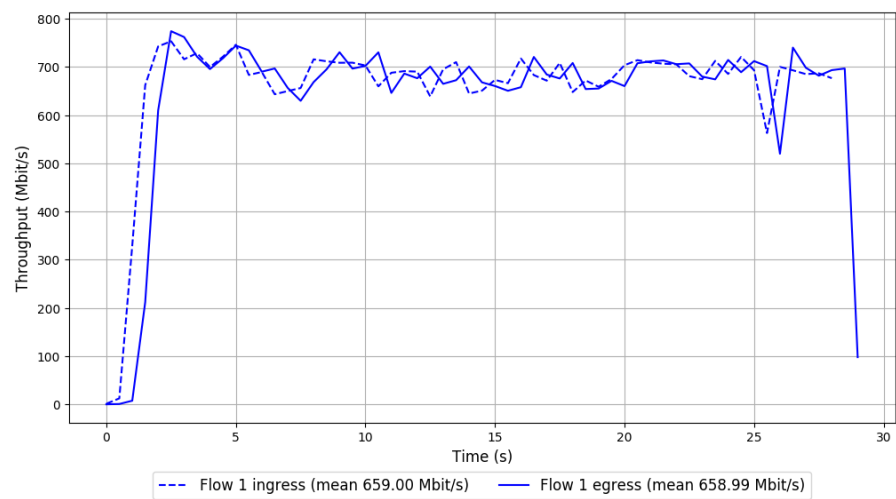


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-21 04:33:47  
End at: 2019-01-21 04:34:17  
Local clock offset: 32.996 ms  
Remote clock offset: 32.111 ms

# Below is generated by plot.py at 2019-01-21 08:04:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 658.99 Mbit/s  
95th percentile per-packet one-way delay: 103.499 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 658.99 Mbit/s  
95th percentile per-packet one-way delay: 103.499 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link

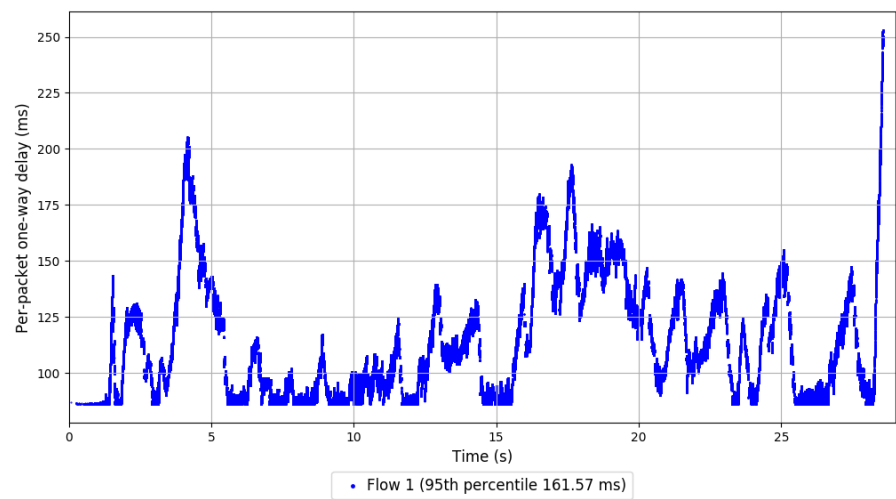
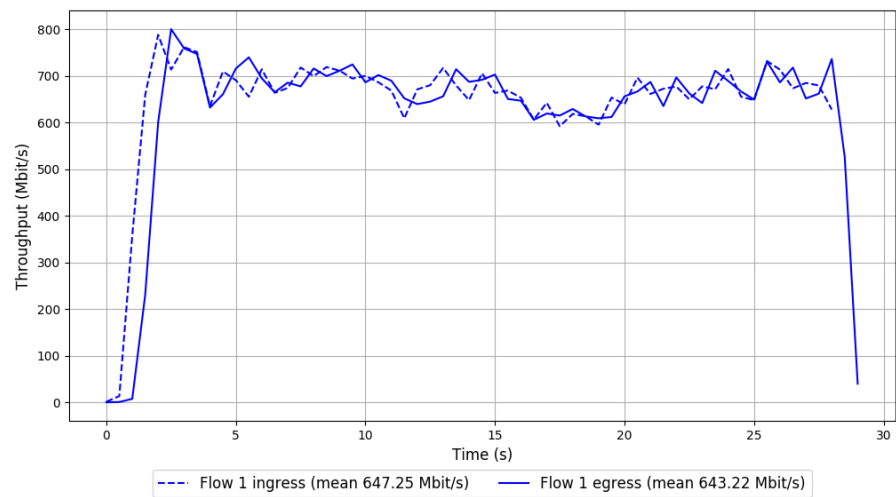


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-21 05:05:23  
End at: 2019-01-21 05:05:53  
Local clock offset: 16.616 ms  
Remote clock offset: 16.217 ms

# Below is generated by plot.py at 2019-01-21 08:06:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 643.22 Mbit/s  
95th percentile per-packet one-way delay: 161.569 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 643.22 Mbit/s  
95th percentile per-packet one-way delay: 161.569 ms  
Loss rate: 0.62%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-21 05:37:05

End at: 2019-01-21 05:37:35

Local clock offset: 7.954 ms

Remote clock offset: 4.347 ms

# Below is generated by plot.py at 2019-01-21 08:06:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 637.23 Mbit/s

95th percentile per-packet one-way delay: 149.206 ms

Loss rate: 0.26%

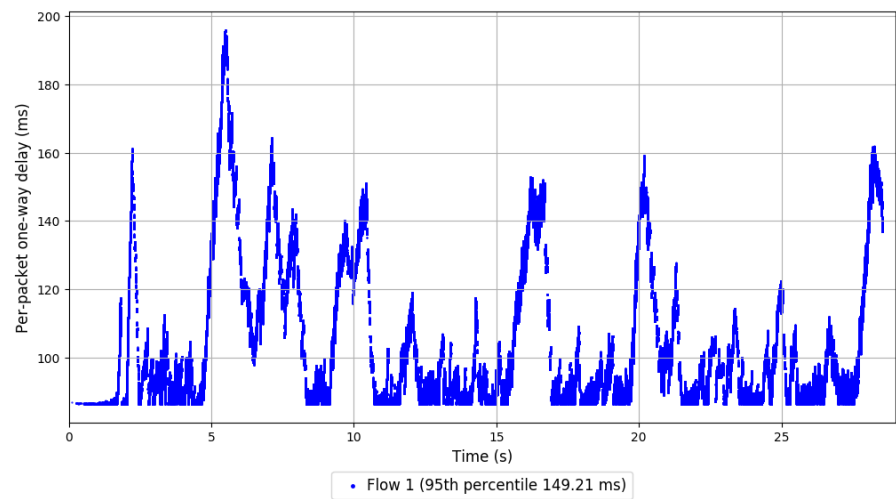
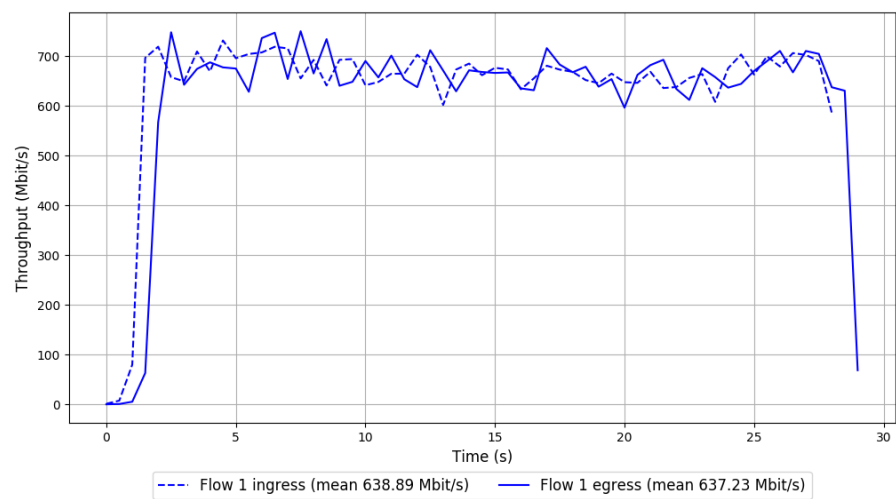
-- Flow 1:

Average throughput: 637.23 Mbit/s

95th percentile per-packet one-way delay: 149.206 ms

Loss rate: 0.26%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-21 06:08:51

End at: 2019-01-21 06:09:21

Local clock offset: 2.051 ms

Remote clock offset: 1.618 ms

# Below is generated by plot.py at 2019-01-21 08:06:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 604.70 Mbit/s

95th percentile per-packet one-way delay: 123.097 ms

Loss rate: 0.00%

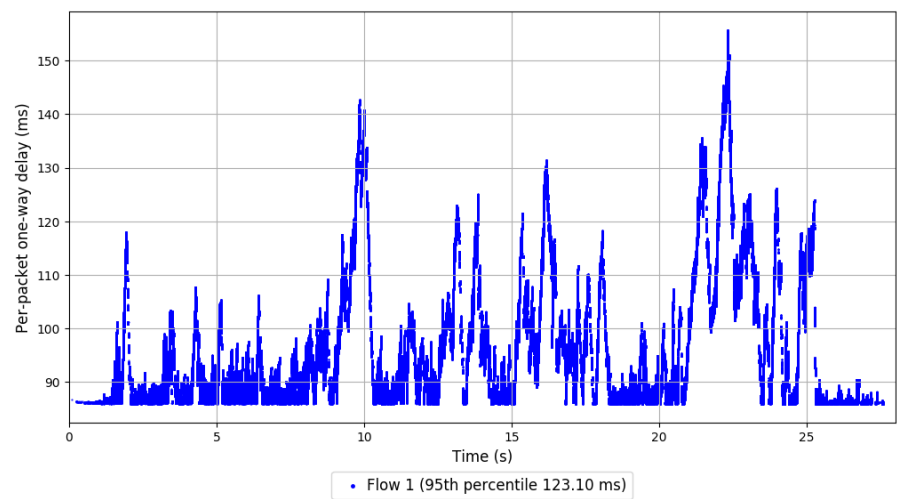
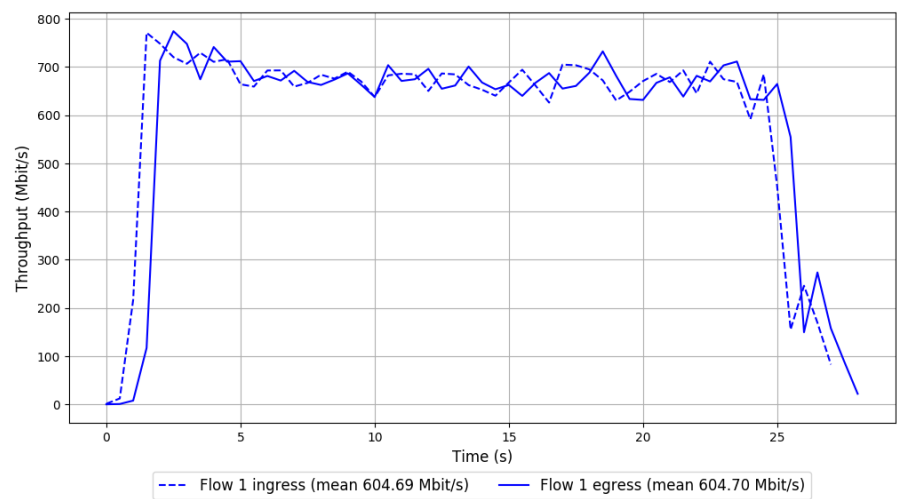
-- Flow 1:

Average throughput: 604.70 Mbit/s

95th percentile per-packet one-way delay: 123.097 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

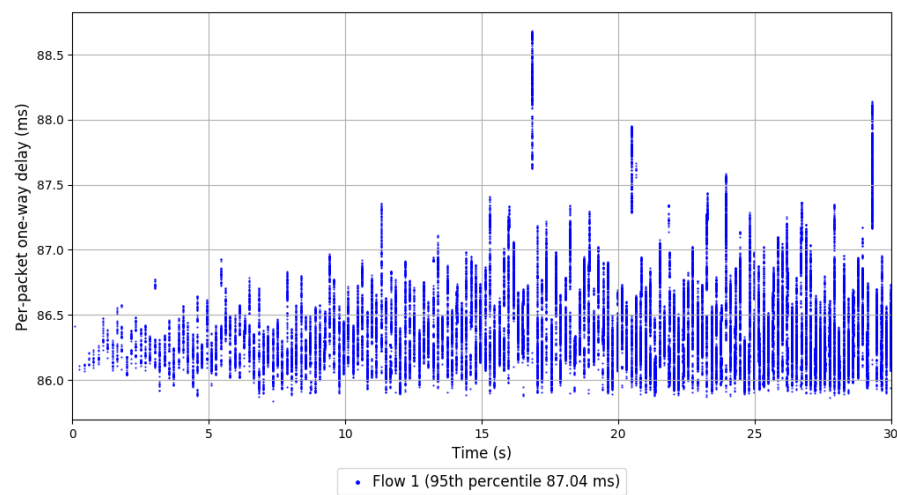
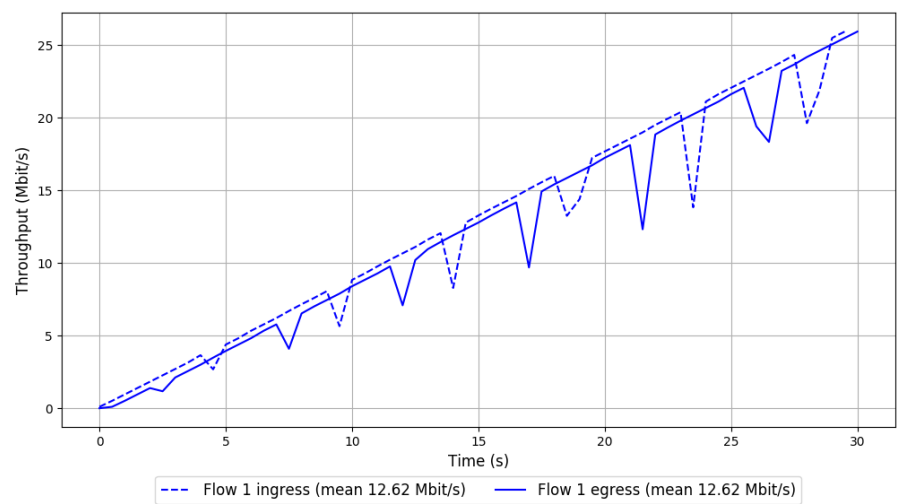


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-21 03:48:33
End at: 2019-01-21 03:49:03
Local clock offset: 14.936 ms
Remote clock offset: 14.285 ms

# Below is generated by plot.py at 2019-01-21 08:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 87.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 87.042 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

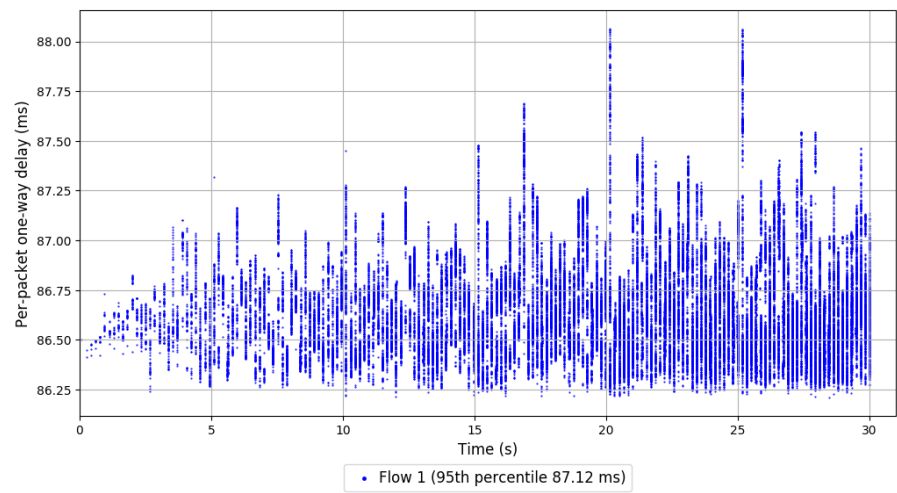
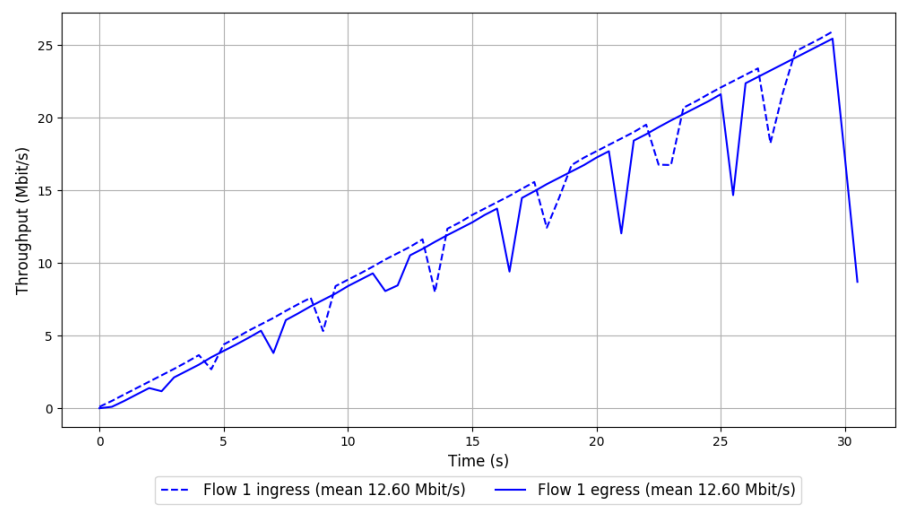


Run 2: Statistics of LEDBAT

Start at: 2019-01-21 04:20:04  
End at: 2019-01-21 04:20:34  
Local clock offset: 21.34 ms  
Remote clock offset: 20.904 ms

# Below is generated by plot.py at 2019-01-21 08:06:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.60 Mbit/s  
95th percentile per-packet one-way delay: 87.124 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.60 Mbit/s  
95th percentile per-packet one-way delay: 87.124 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



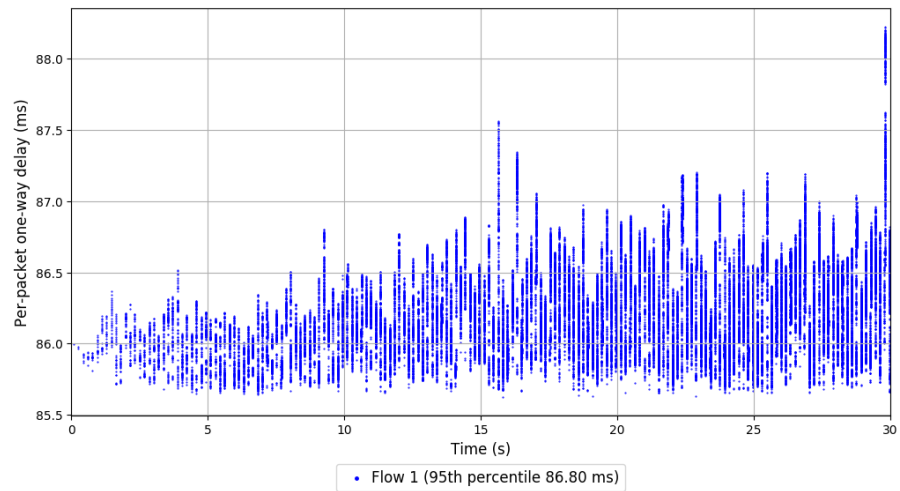
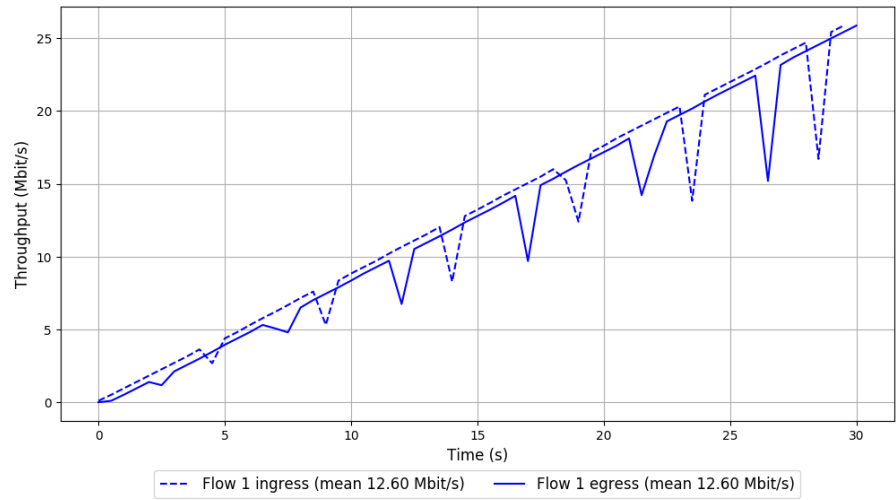


Run 3: Statistics of LEDBAT

Start at: 2019-01-21 04:51:37  
End at: 2019-01-21 04:52:07  
Local clock offset: 18.813 ms  
Remote clock offset: 18.228 ms

# Below is generated by plot.py at 2019-01-21 08:06:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.60 Mbit/s  
95th percentile per-packet one-way delay: 86.803 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.60 Mbit/s  
95th percentile per-packet one-way delay: 86.803 ms  
Loss rate: 0.00%

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



Run 4: Statistics of LEDBAT

Start at: 2019-01-21 05:23:21

End at: 2019-01-21 05:23:51

Local clock offset: 10.648 ms

Remote clock offset: 9.369 ms

# Below is generated by plot.py at 2019-01-21 08:06:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 87.331 ms

Loss rate: 0.00%

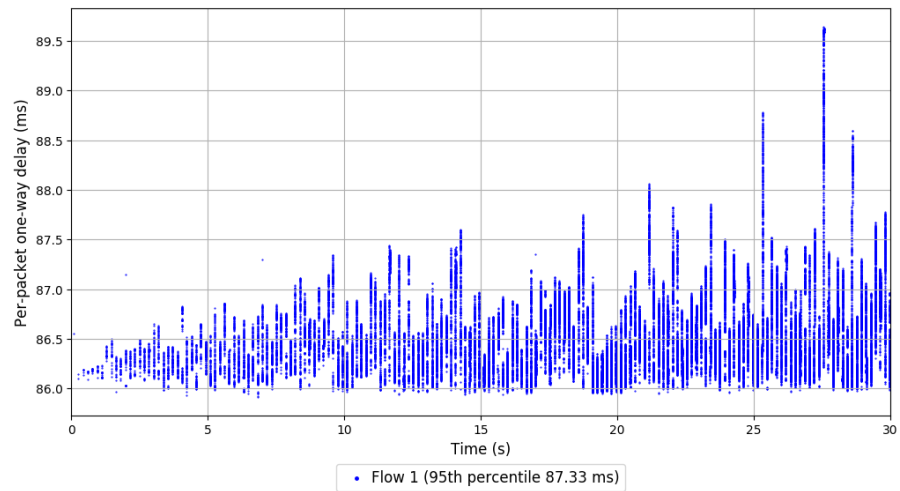
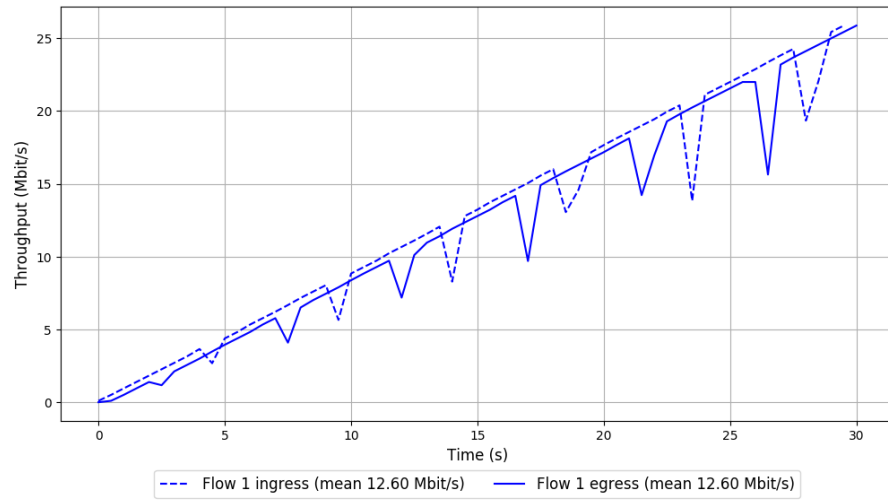
-- Flow 1:

Average throughput: 12.60 Mbit/s

95th percentile per-packet one-way delay: 87.331 ms

Loss rate: 0.00%

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



Run 5: Statistics of LEDBAT

Start at: 2019-01-21 05:54:50

End at: 2019-01-21 05:55:20

Local clock offset: 5.847 ms

Remote clock offset: 2.886 ms

# Below is generated by plot.py at 2019-01-21 08:06:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 87.373 ms

Loss rate: 0.00%

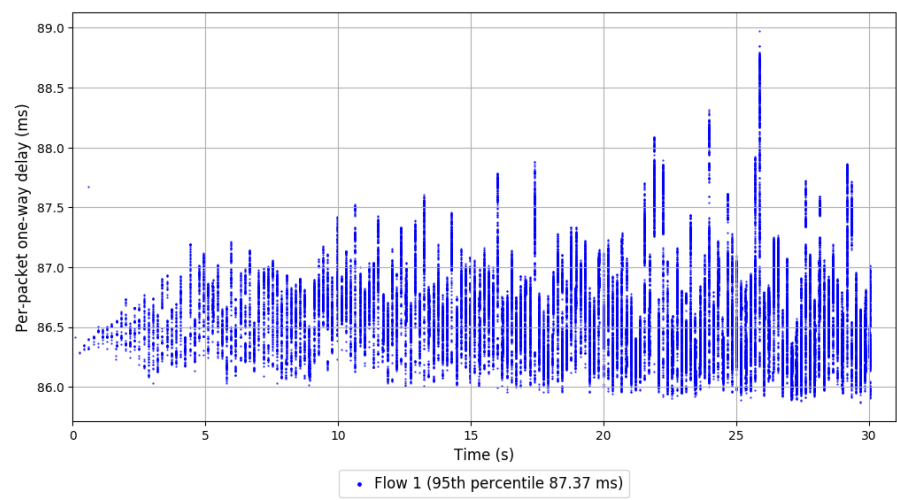
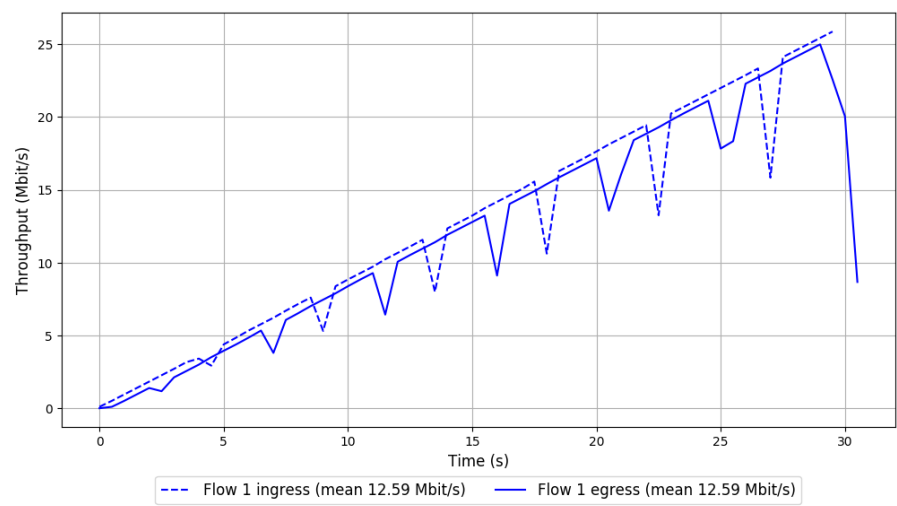
-- Flow 1:

Average throughput: 12.59 Mbit/s

95th percentile per-packet one-way delay: 87.373 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-21 03:56:14

End at: 2019-01-21 03:56:44

Local clock offset: 14.037 ms

Remote clock offset: 13.734 ms

# Below is generated by plot.py at 2019-01-21 08:13:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 394.47 Mbit/s

95th percentile per-packet one-way delay: 195.720 ms

Loss rate: 0.80%

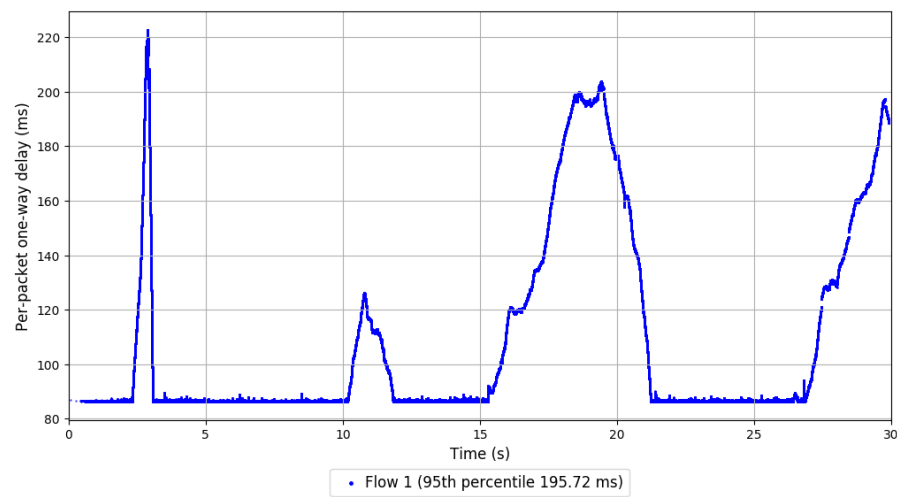
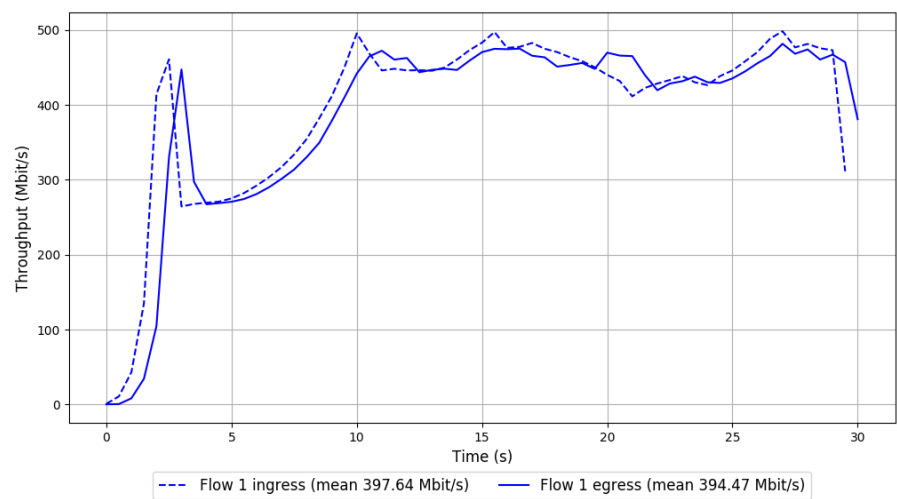
-- Flow 1:

Average throughput: 394.47 Mbit/s

95th percentile per-packet one-way delay: 195.720 ms

Loss rate: 0.80%

Run 1: Report of PCC-Allegro — Data Link



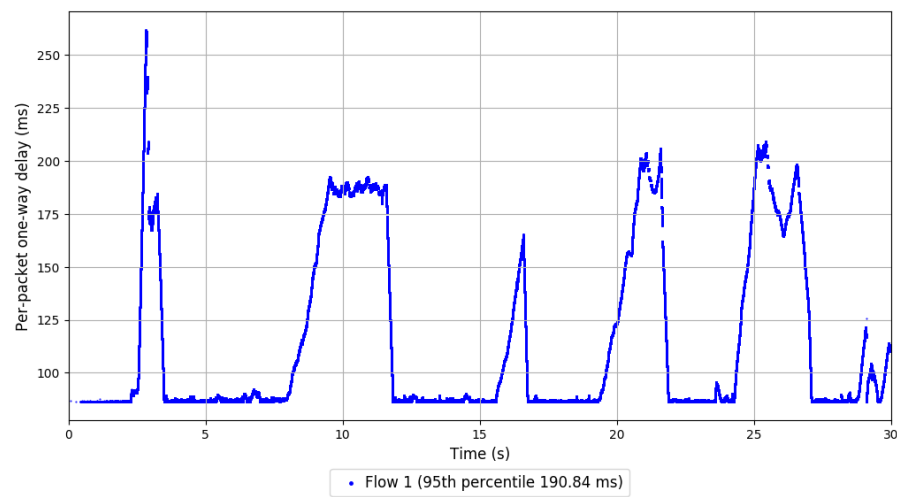
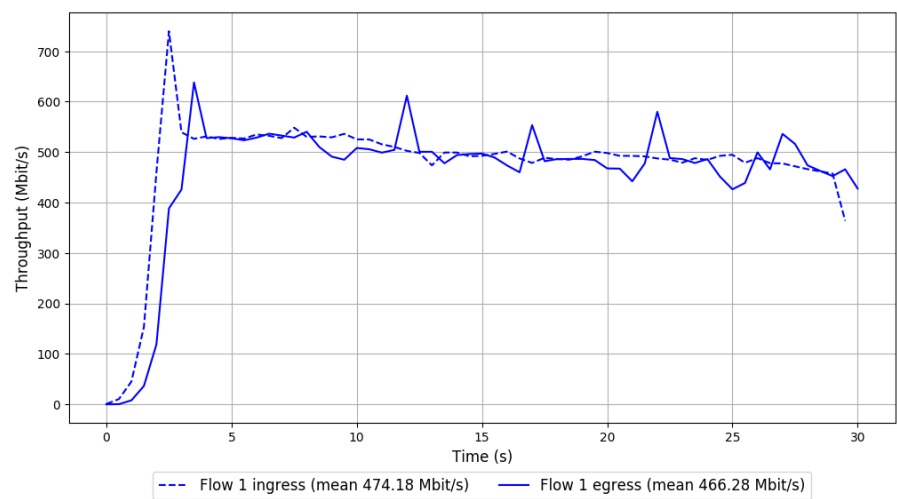


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-21 04:27:37  
End at: 2019-01-21 04:28:07  
Local clock offset: 26.685 ms  
Remote clock offset: 26.119 ms

# Below is generated by plot.py at 2019-01-21 08:16:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 466.28 Mbit/s  
95th percentile per-packet one-way delay: 190.835 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 466.28 Mbit/s  
95th percentile per-packet one-way delay: 190.835 ms  
Loss rate: 1.66%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-21 04:59:19

End at: 2019-01-21 04:59:49

Local clock offset: 15.69 ms

Remote clock offset: 15.366 ms

# Below is generated by plot.py at 2019-01-21 08:16:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 366.71 Mbit/s

95th percentile per-packet one-way delay: 201.716 ms

Loss rate: 1.18%

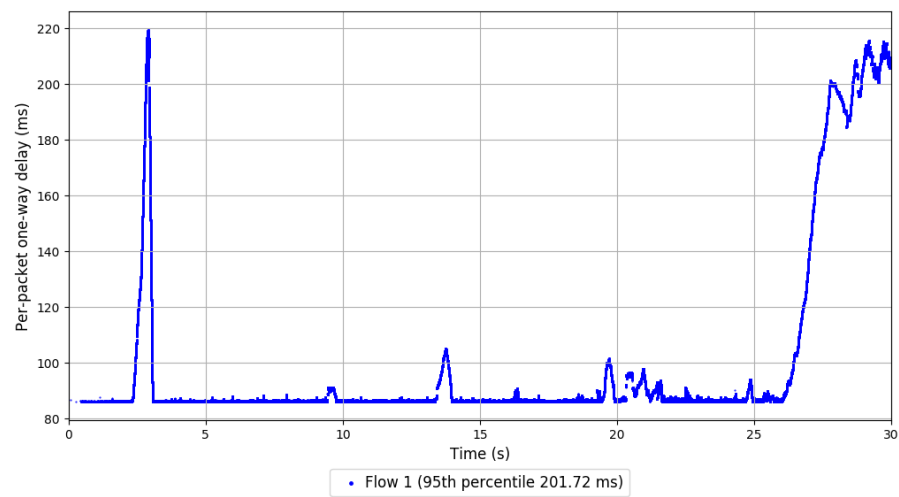
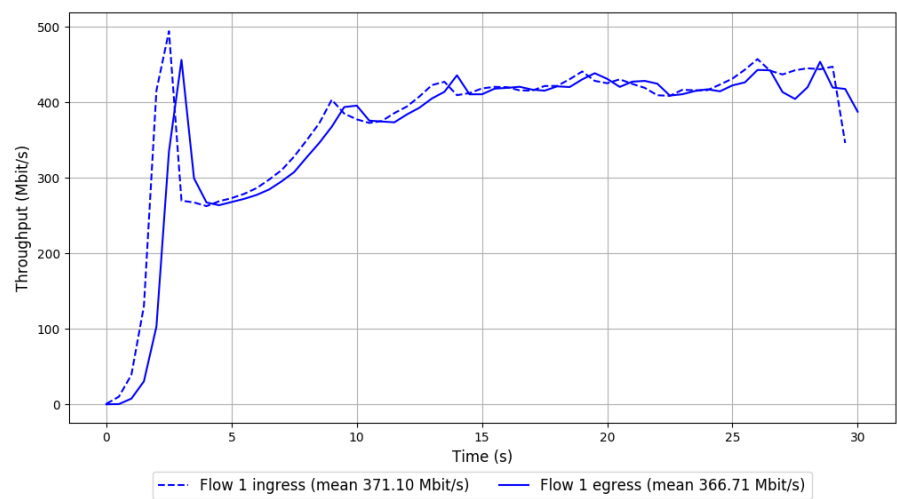
-- Flow 1:

Average throughput: 366.71 Mbit/s

95th percentile per-packet one-way delay: 201.716 ms

Loss rate: 1.18%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-21 05:31:01

End at: 2019-01-21 05:31:31

Local clock offset: 7.759 ms

Remote clock offset: 5.279 ms

# Below is generated by plot.py at 2019-01-21 08:24:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 406.30 Mbit/s

95th percentile per-packet one-way delay: 182.760 ms

Loss rate: 0.19%

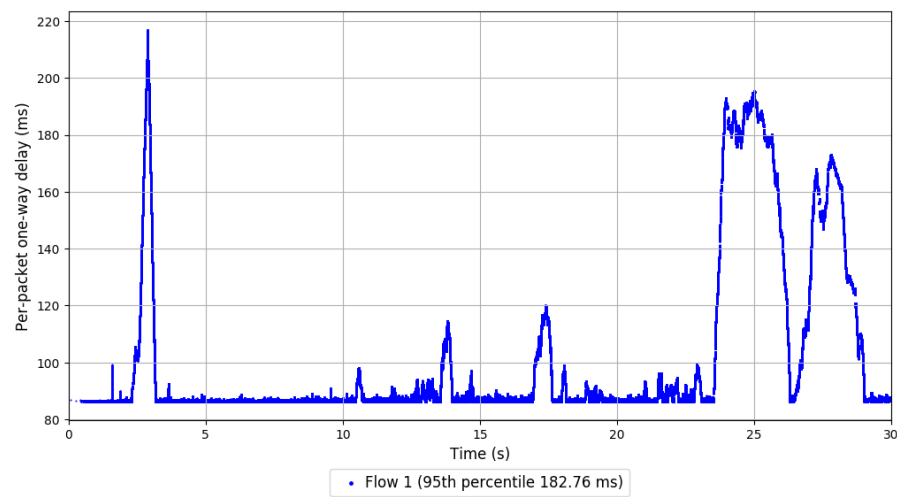
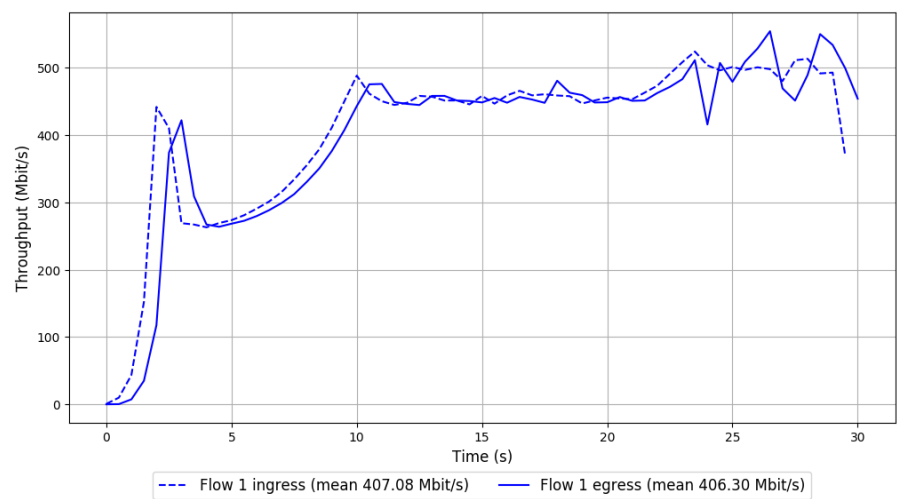
-- Flow 1:

Average throughput: 406.30 Mbit/s

95th percentile per-packet one-way delay: 182.760 ms

Loss rate: 0.19%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-21 06:02:33

End at: 2019-01-21 06:03:03

Local clock offset: 2.521 ms

Remote clock offset: 1.766 ms

# Below is generated by plot.py at 2019-01-21 08:31:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 538.53 Mbit/s

95th percentile per-packet one-way delay: 181.279 ms

Loss rate: 1.59%

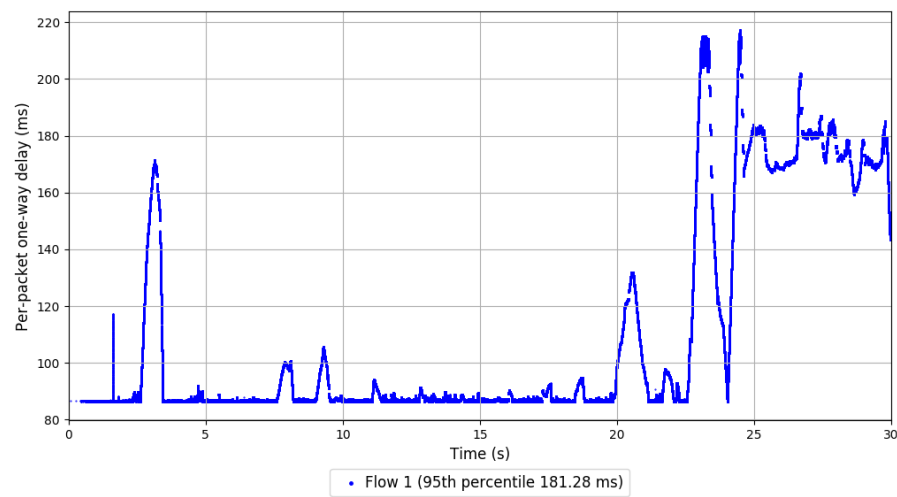
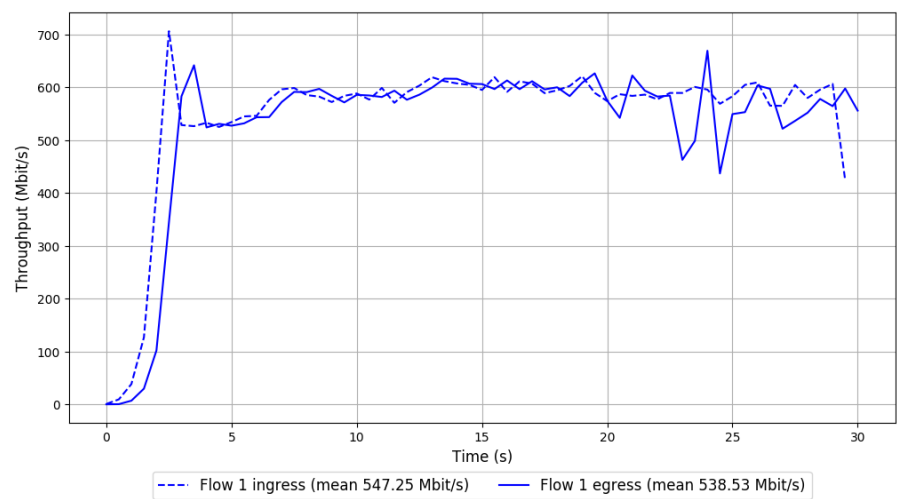
-- Flow 1:

Average throughput: 538.53 Mbit/s

95th percentile per-packet one-way delay: 181.279 ms

Loss rate: 1.59%

Run 5: Report of PCC-Allegro — Data Link



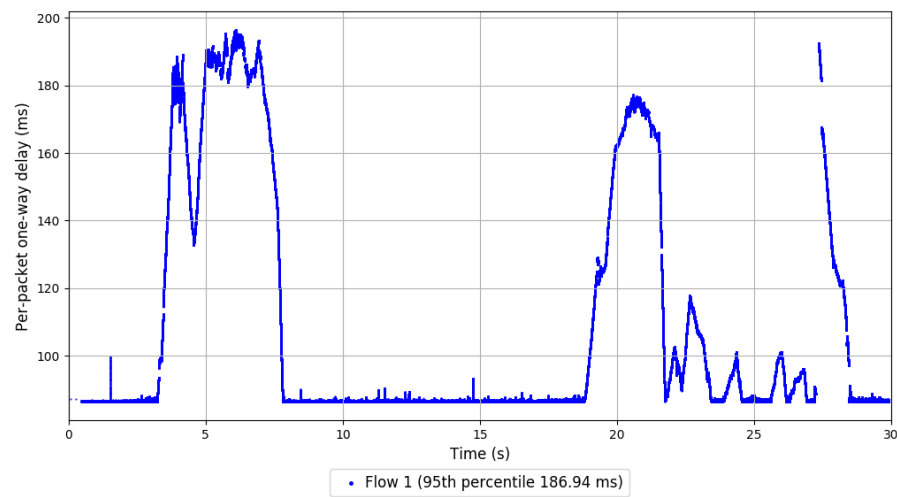
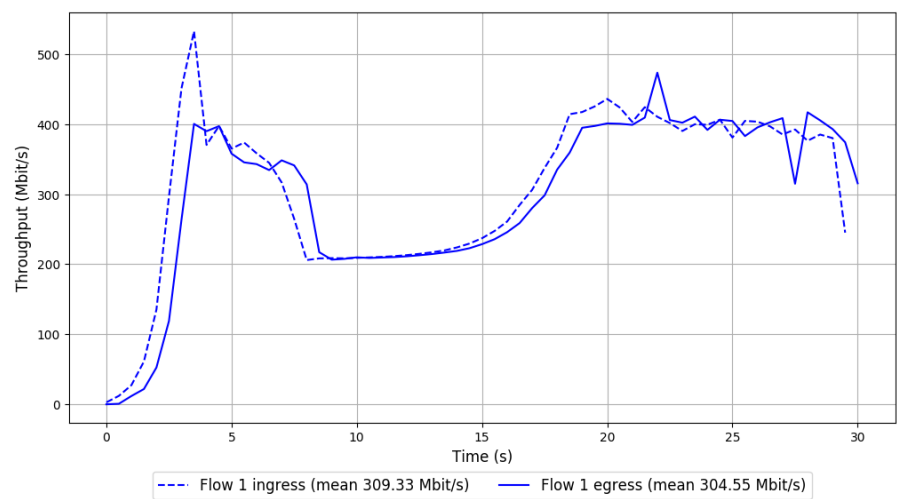


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-21 03:44:13
End at: 2019-01-21 03:44:43
Local clock offset: 9.065 ms
Remote clock offset: 8.97 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.55 Mbit/s
95th percentile per-packet one-way delay: 186.943 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 304.55 Mbit/s
95th percentile per-packet one-way delay: 186.943 ms
Loss rate: 1.55%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-21 04:15:52

End at: 2019-01-21 04:16:22

Local clock offset: 20.805 ms

Remote clock offset: 19.92 ms

# Below is generated by plot.py at 2019-01-21 08:31:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 339.25 Mbit/s

95th percentile per-packet one-way delay: 146.478 ms

Loss rate: 0.58%

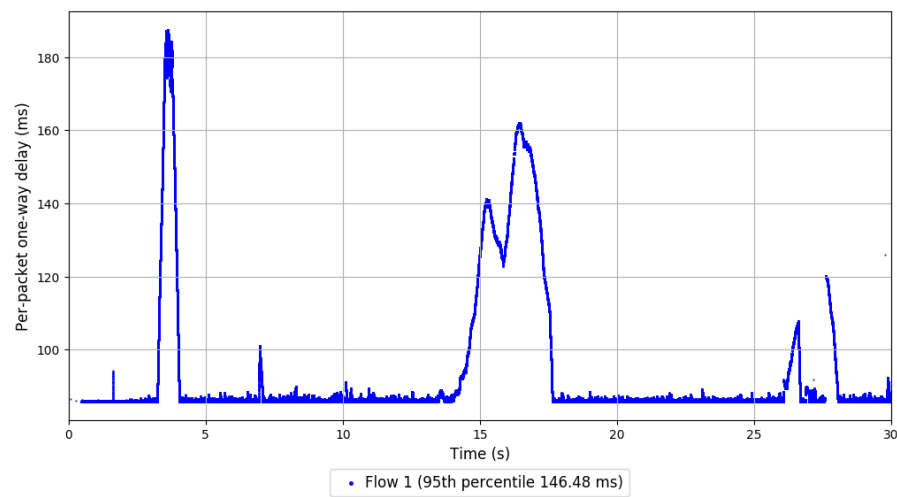
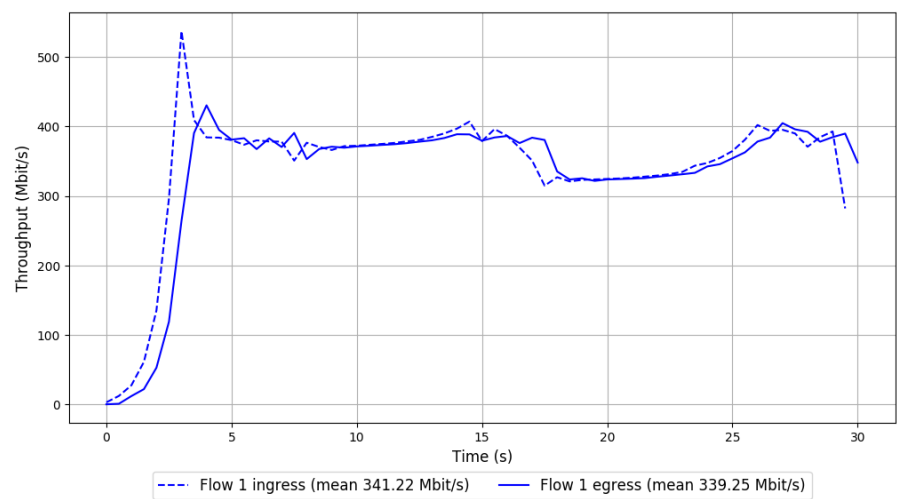
-- Flow 1:

Average throughput: 339.25 Mbit/s

95th percentile per-packet one-way delay: 146.478 ms

Loss rate: 0.58%

Run 2: Report of PCC-Expr — Data Link

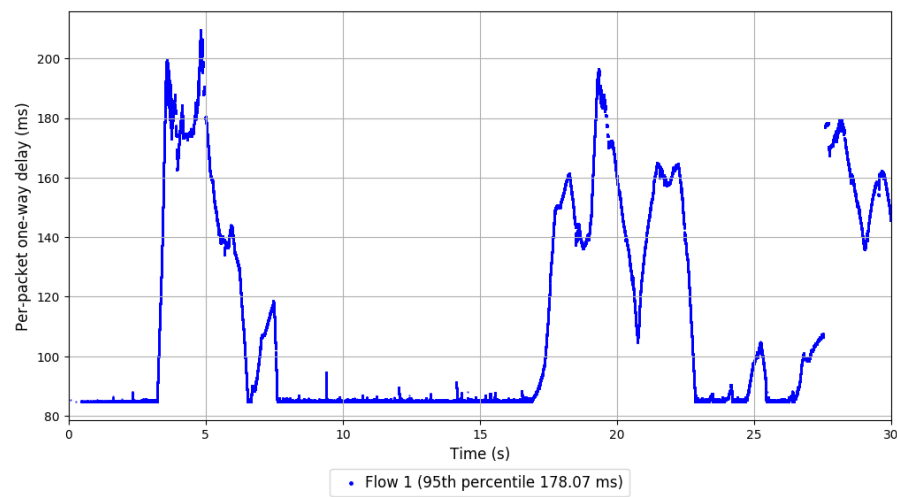
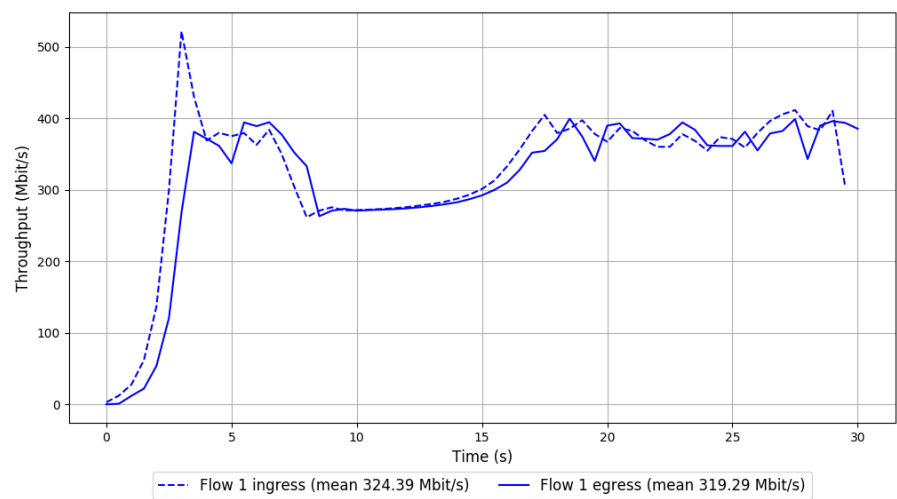


Run 3: Statistics of PCC-Expr

Start at: 2019-01-21 04:47:27  
End at: 2019-01-21 04:47:57  
Local clock offset: 25.175 ms  
Remote clock offset: 23.645 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 319.29 Mbit/s  
95th percentile per-packet one-way delay: 178.075 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 319.29 Mbit/s  
95th percentile per-packet one-way delay: 178.075 ms  
Loss rate: 1.57%

Run 3: Report of PCC-Expr — Data Link

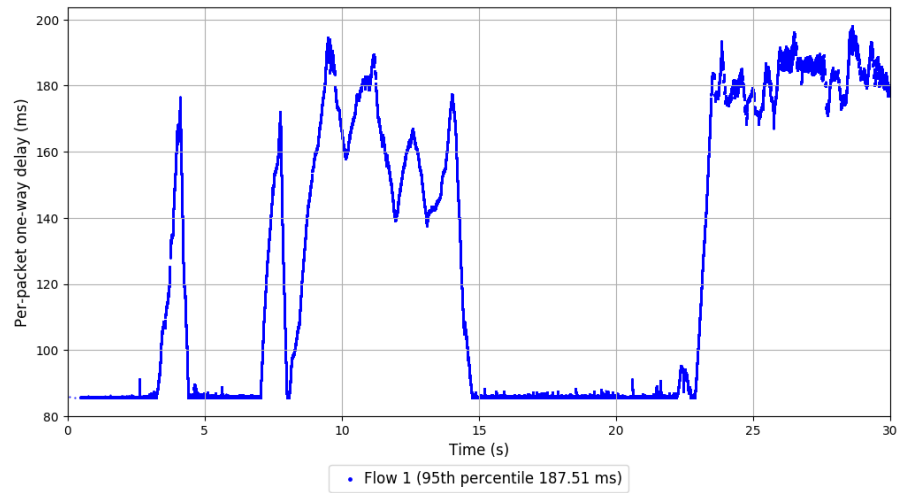
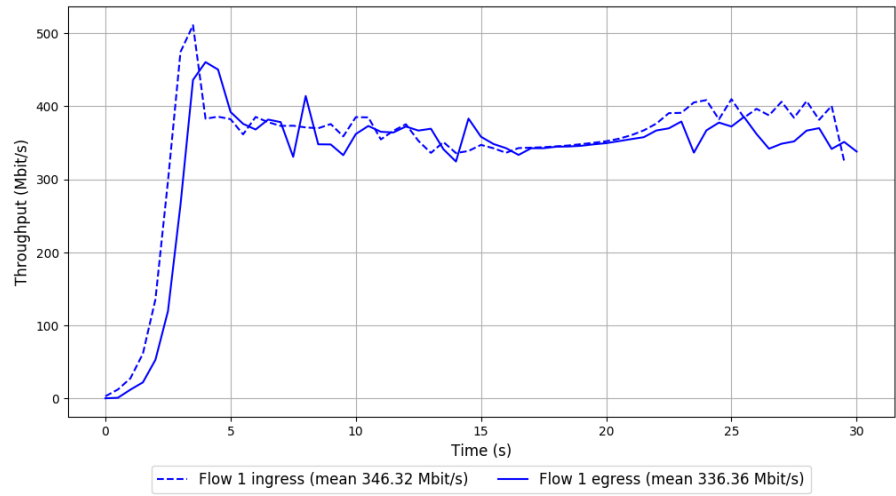


Run 4: Statistics of PCC-Expr

Start at: 2019-01-21 05:19:03  
End at: 2019-01-21 05:19:33  
Local clock offset: 15.386 ms  
Remote clock offset: 14.441 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 336.36 Mbit/s  
95th percentile per-packet one-way delay: 187.508 ms  
Loss rate: 2.98%  
-- Flow 1:  
Average throughput: 336.36 Mbit/s  
95th percentile per-packet one-way delay: 187.508 ms  
Loss rate: 2.98%

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





Run 5: Statistics of PCC-Expr

Start at: 2019-01-21 05:50:31

End at: 2019-01-21 05:51:01

Local clock offset: 9.969 ms

Remote clock offset: 4.339 ms

# Below is generated by plot.py at 2019-01-21 08:31:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 343.69 Mbit/s

95th percentile per-packet one-way delay: 189.076 ms

Loss rate: 5.79%

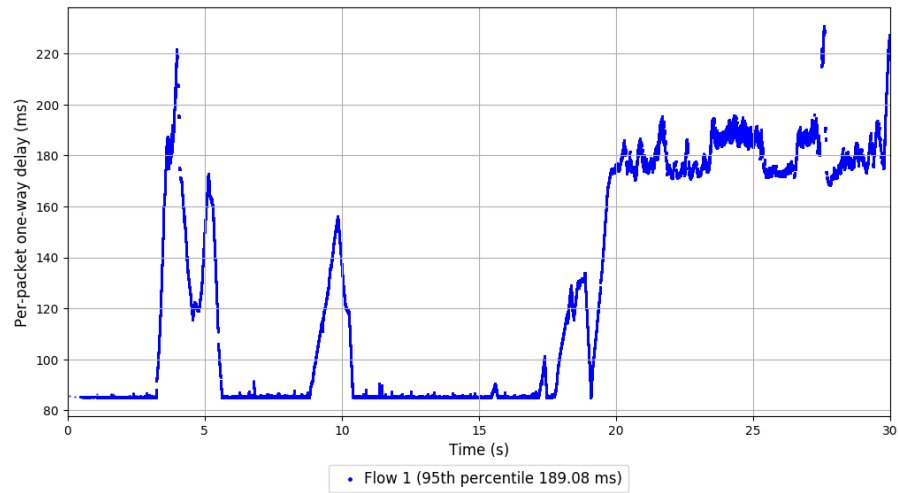
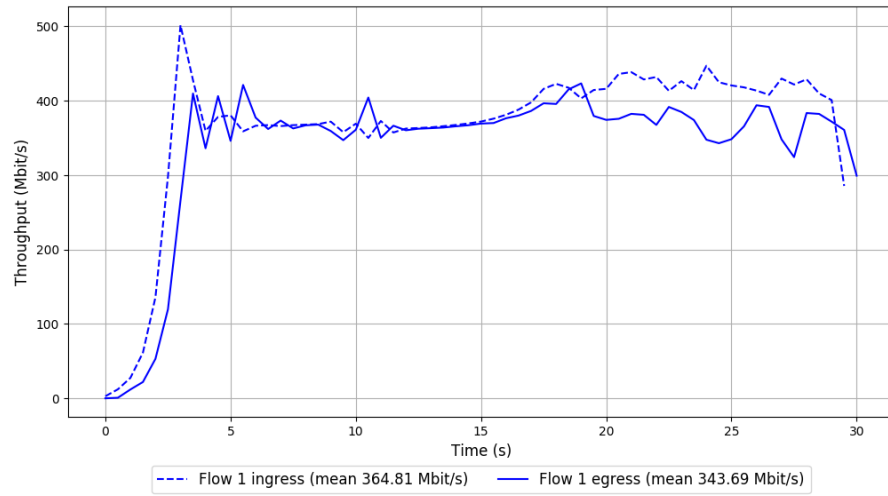
-- Flow 1:

Average throughput: 343.69 Mbit/s

95th percentile per-packet one-way delay: 189.076 ms

Loss rate: 5.79%

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

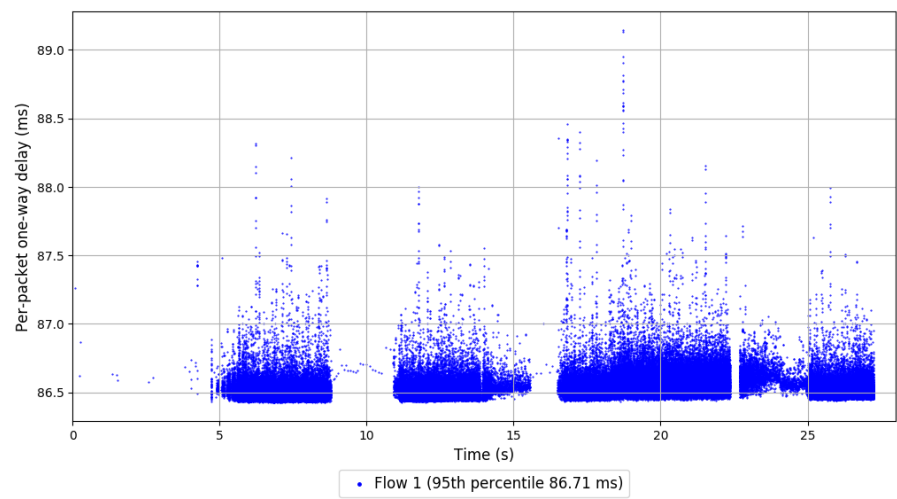
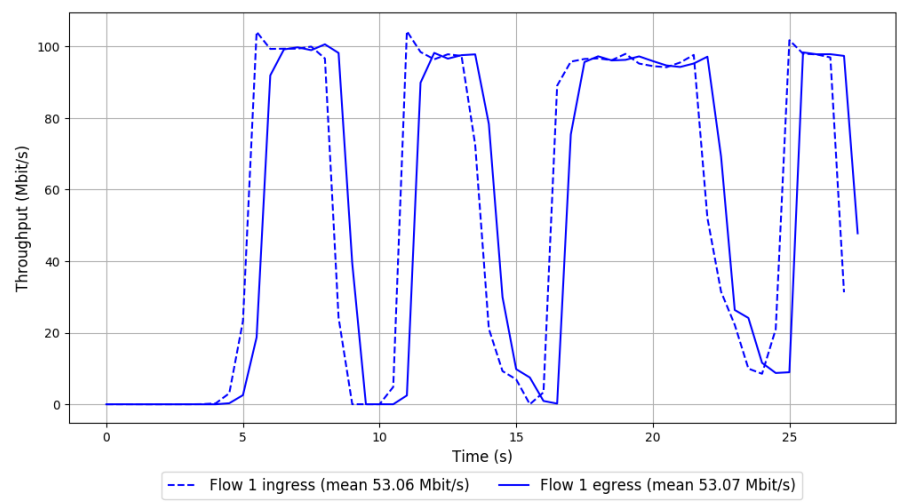


Run 1: Statistics of QUIC Cubic

Start at: 2019-01-21 04:00:59  
End at: 2019-01-21 04:01:29  
Local clock offset: 18.208 ms  
Remote clock offset: 17.965 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 53.07 Mbit/s  
95th percentile per-packet one-way delay: 86.712 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 53.07 Mbit/s  
95th percentile per-packet one-way delay: 86.712 ms  
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-21 04:32:35

End at: 2019-01-21 04:33:05

Local clock offset: 31.751 ms

Remote clock offset: 30.724 ms

# Below is generated by plot.py at 2019-01-21 08:31:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.66 Mbit/s

95th percentile per-packet one-way delay: 86.613 ms

Loss rate: 0.00%

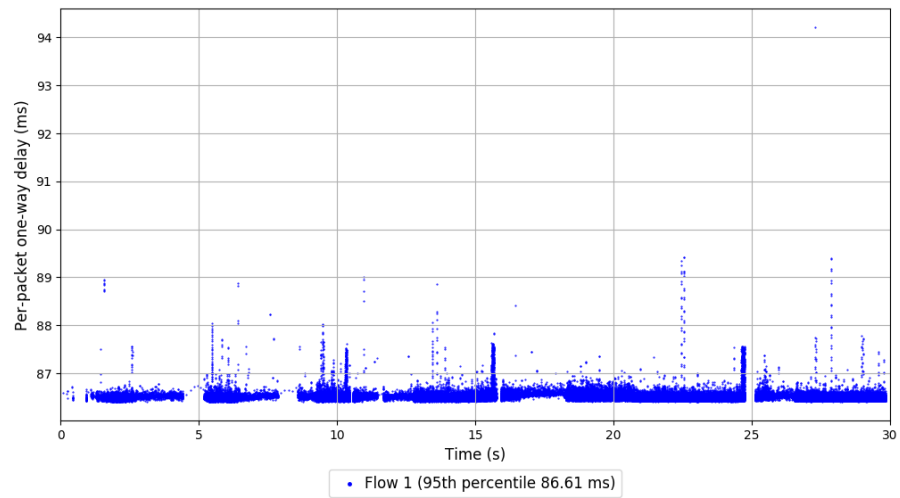
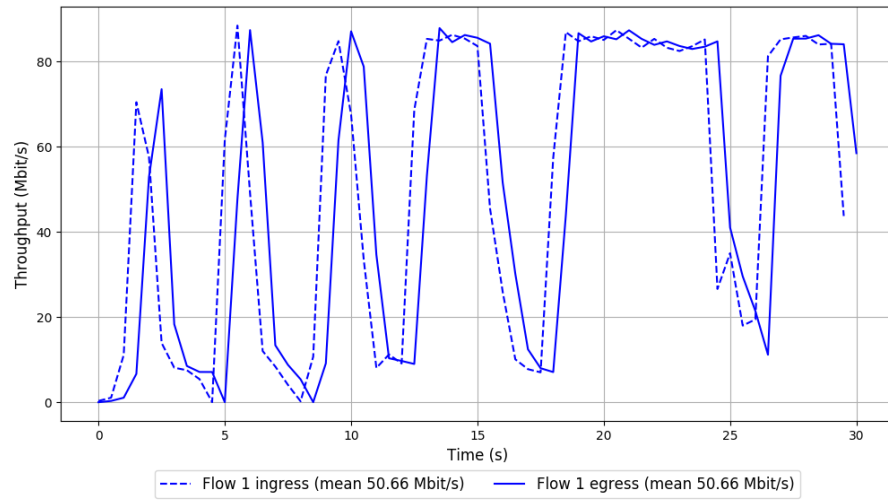
-- Flow 1:

Average throughput: 50.66 Mbit/s

95th percentile per-packet one-way delay: 86.613 ms

Loss rate: 0.00%

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

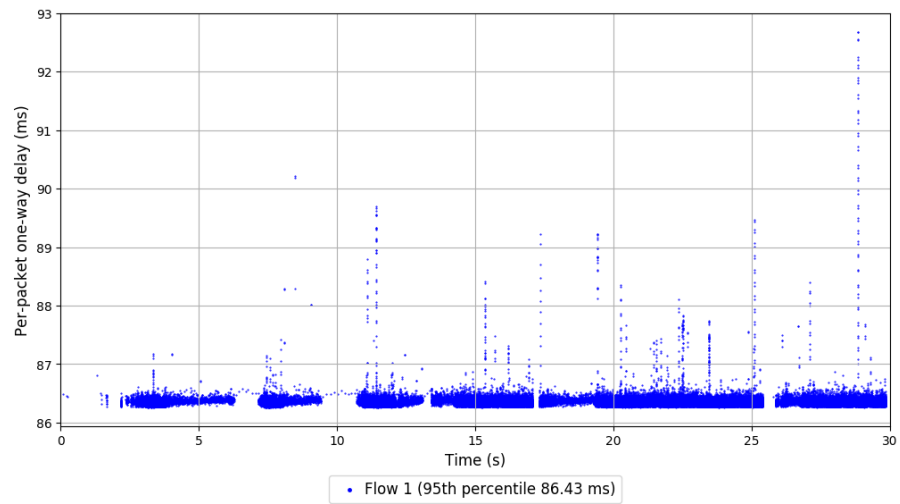
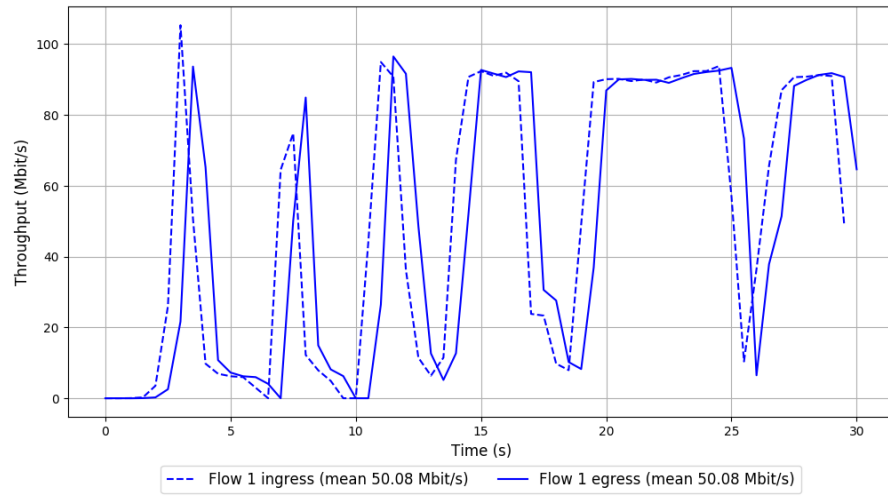


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-21 05:04:11  
End at: 2019-01-21 05:04:41  
Local clock offset: 16.342 ms  
Remote clock offset: 15.886 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.08 Mbit/s  
95th percentile per-packet one-way delay: 86.427 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.08 Mbit/s  
95th percentile per-packet one-way delay: 86.427 ms  
Loss rate: 0.00%

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





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-21 05:35:51

End at: 2019-01-21 05:36:21

Local clock offset: 7.984 ms

Remote clock offset: 4.611 ms

# Below is generated by plot.py at 2019-01-21 08:31:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 86.047 ms

Loss rate: 0.00%

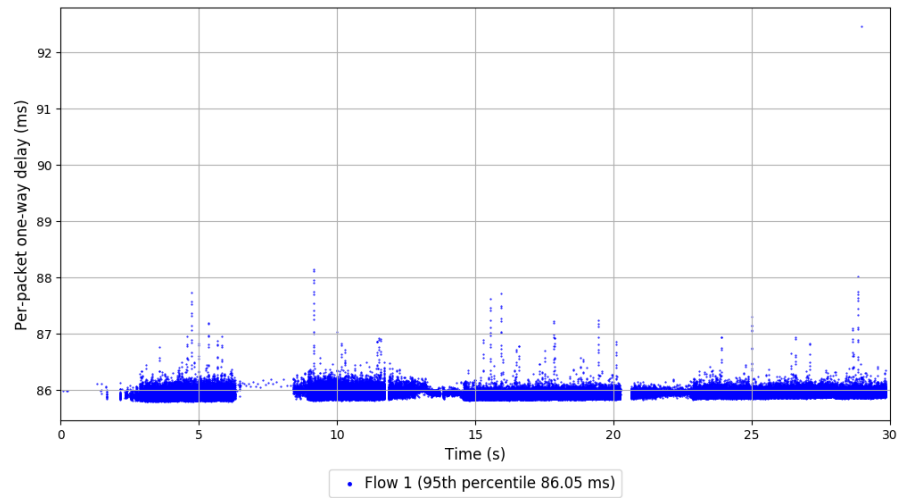
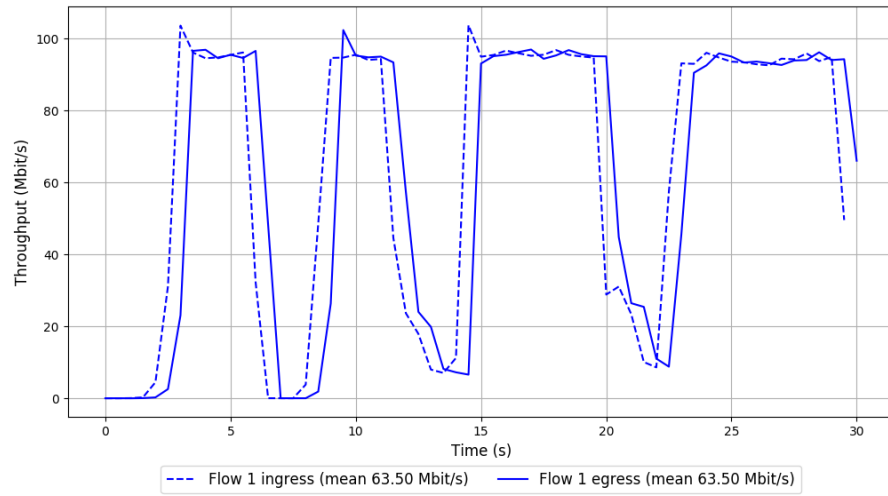
-- Flow 1:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 86.047 ms

Loss rate: 0.00%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-21 06:07:38

End at: 2019-01-21 06:08:08

Local clock offset: 2.185 ms

Remote clock offset: 1.645 ms

# Below is generated by plot.py at 2019-01-21 08:31:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 86.402 ms

Loss rate: 0.00%

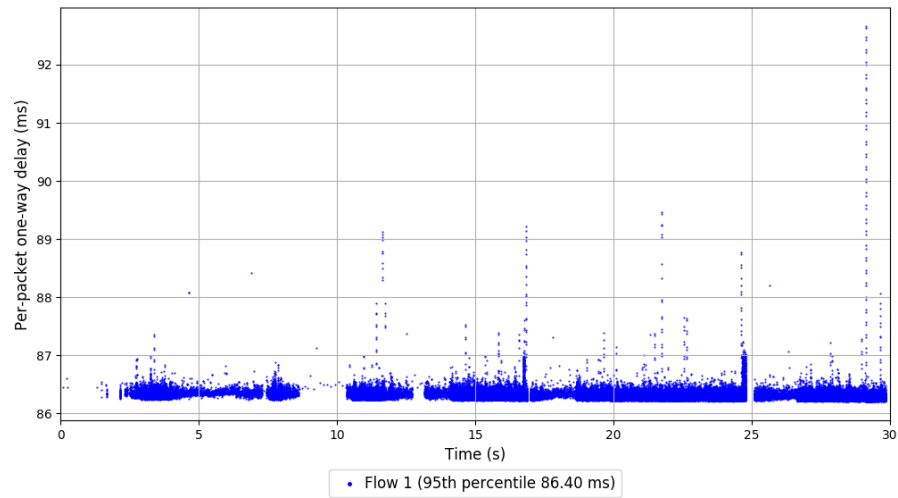
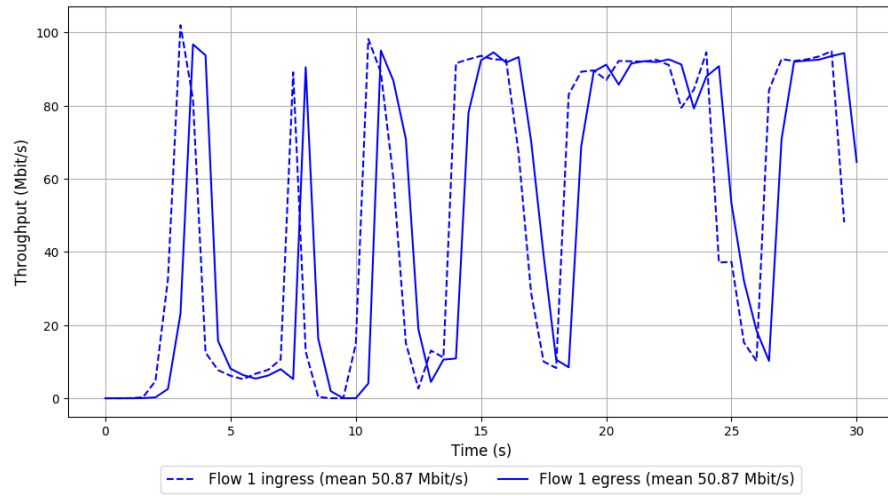
-- Flow 1:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 86.402 ms

Loss rate: 0.00%

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

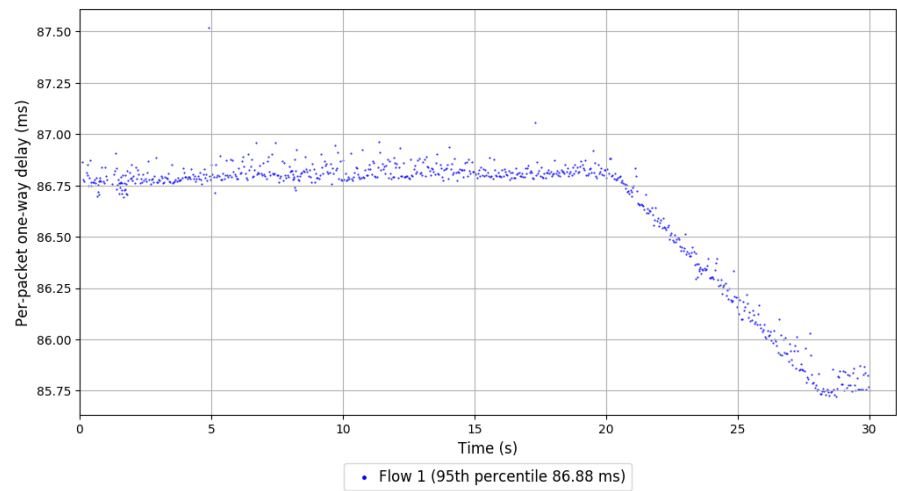
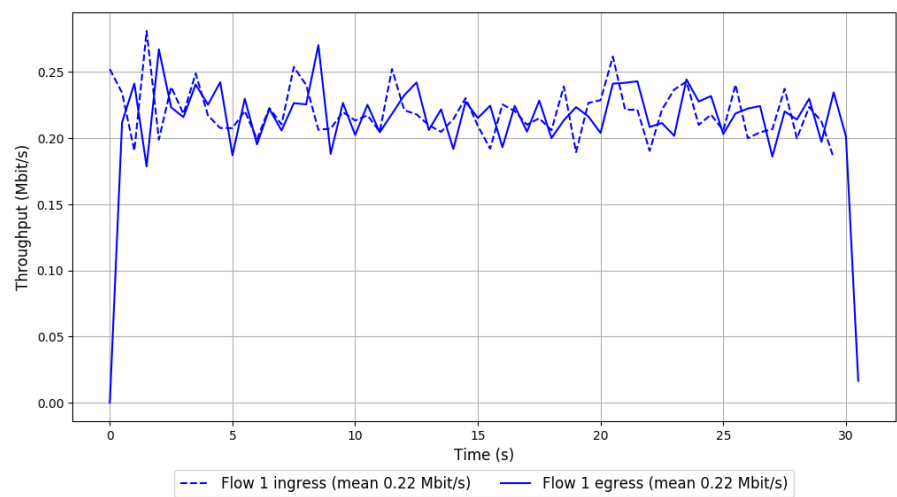


```
Run 1: Statistics of SCReAM

Start at: 2019-01-21 03:36:59
End at: 2019-01-21 03:37:29
Local clock offset: 5.818 ms
Remote clock offset: 5.878 ms

# Below is generated by plot.py at 2019-01-21 08:31:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.875 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

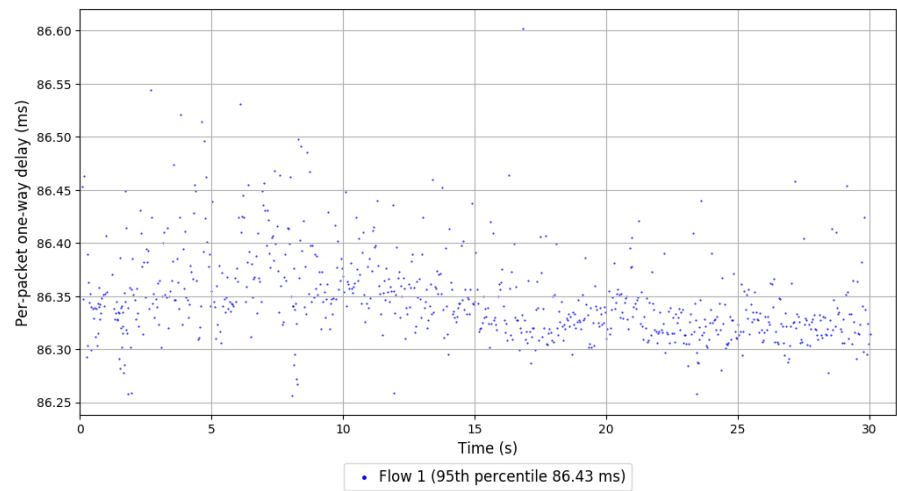
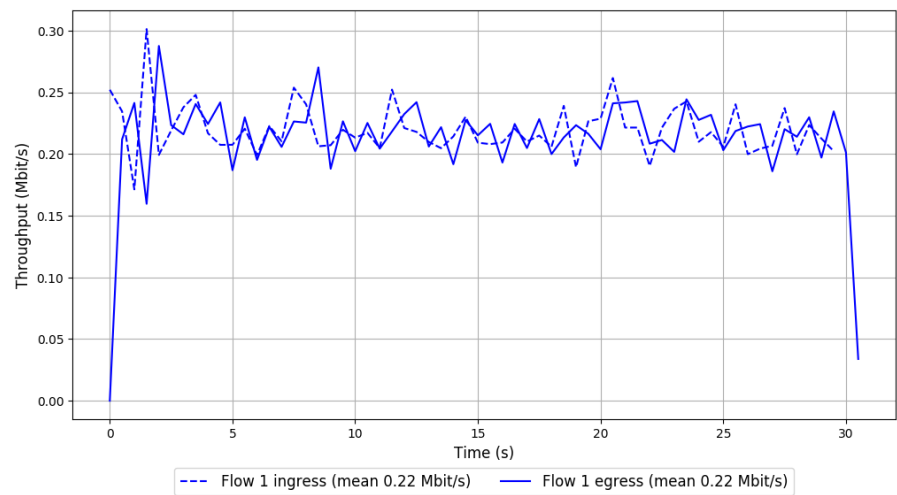


Run 2: Statistics of SCReAM

Start at: 2019-01-21 04:08:41  
End at: 2019-01-21 04:09:11  
Local clock offset: 25.615 ms  
Remote clock offset: 25.114 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.429 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.429 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



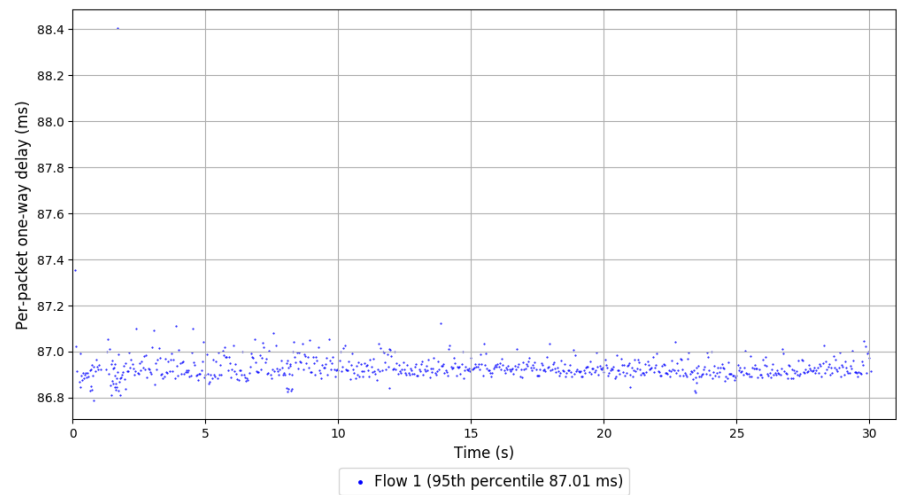
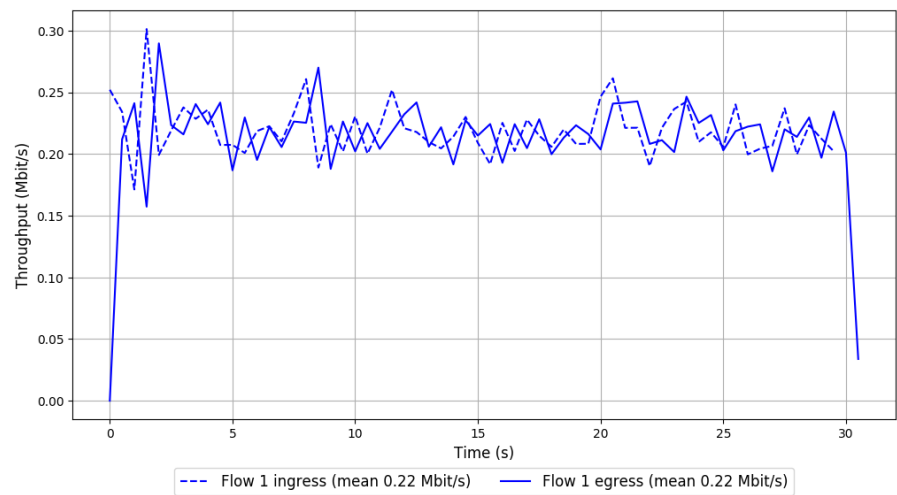


Run 3: Statistics of SCReAM

Start at: 2019-01-21 04:40:16  
End at: 2019-01-21 04:40:46  
Local clock offset: 39.264 ms  
Remote clock offset: 38.973 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 87.009 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 87.009 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

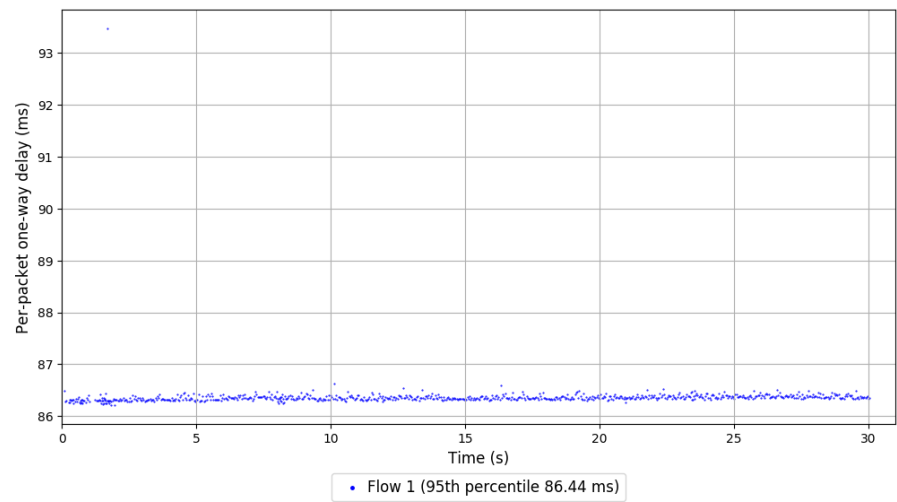
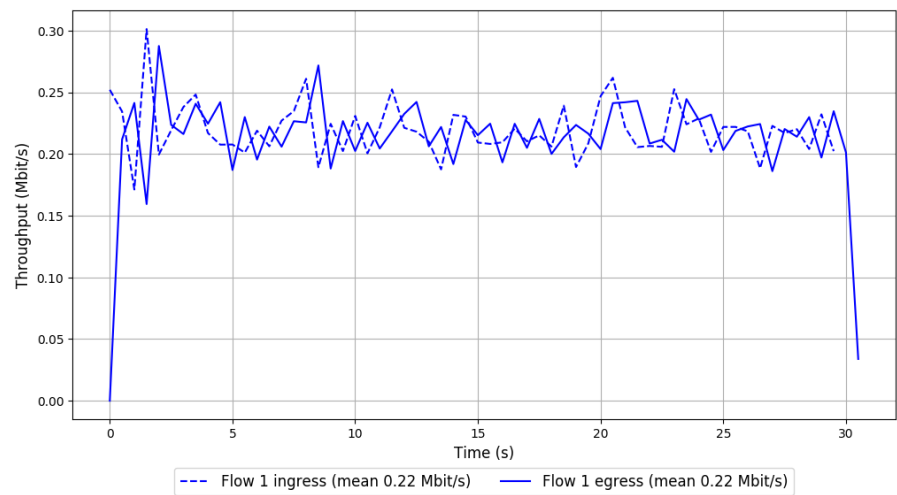


Run 4: Statistics of SCReAM

Start at: 2019-01-21 05:11:54  
End at: 2019-01-21 05:12:24  
Local clock offset: 18.892 ms  
Remote clock offset: 18.556 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.443 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.443 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-01-21 05:43:22

End at: 2019-01-21 05:43:52

Local clock offset: 8.561 ms

Remote clock offset: 4.265 ms

# Below is generated by plot.py at 2019-01-21 08:31:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.970 ms

Loss rate: 0.00%

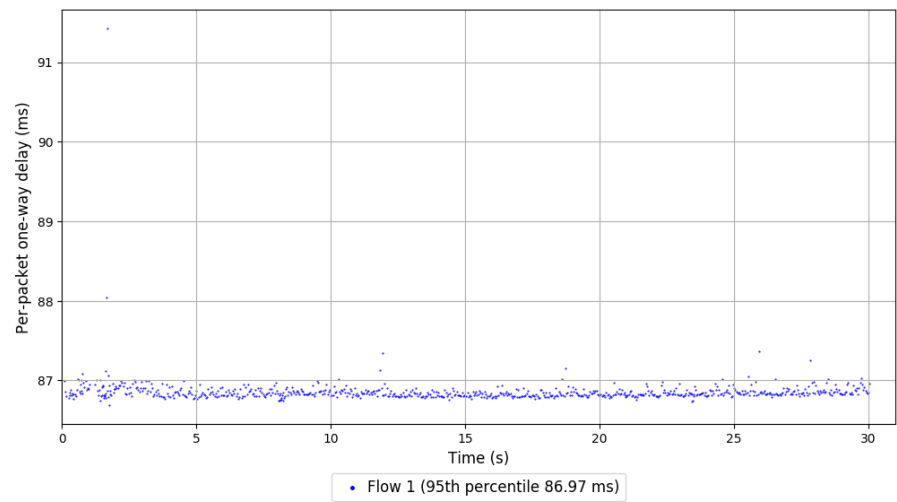
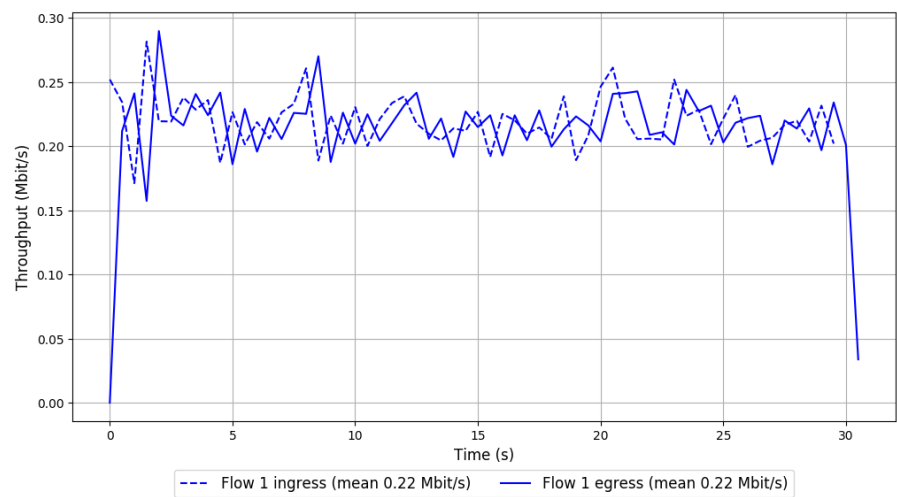
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.970 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

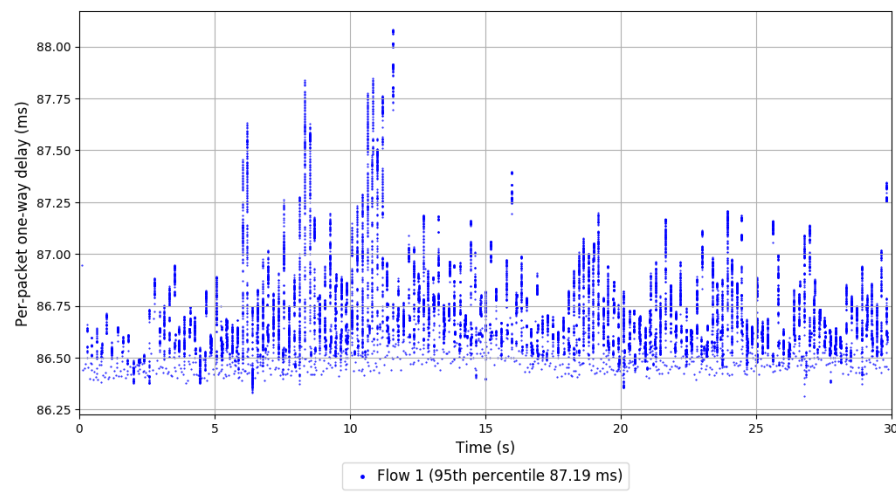
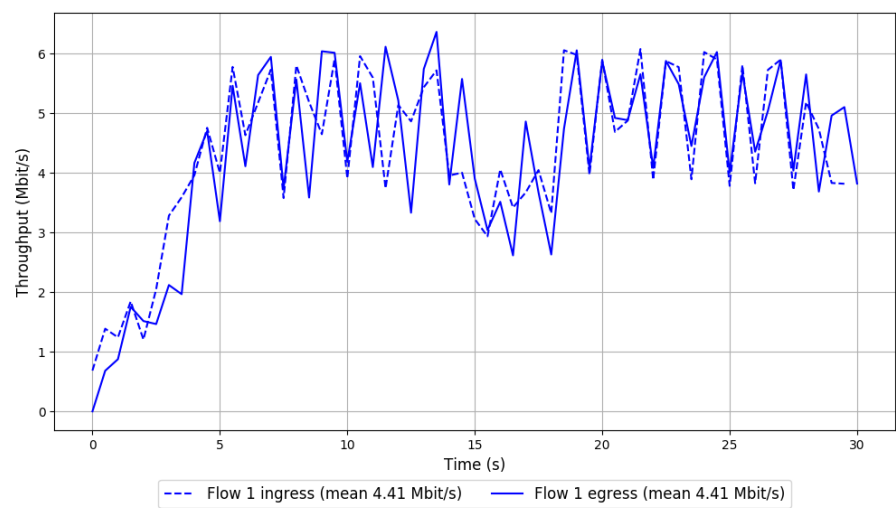


Run 1: Statistics of Sprout

Start at: 2019-01-21 03:45:51  
End at: 2019-01-21 03:46:21  
Local clock offset: 10.266 ms  
Remote clock offset: 10.239 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.41 Mbit/s  
95th percentile per-packet one-way delay: 87.187 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.41 Mbit/s  
95th percentile per-packet one-way delay: 87.187 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



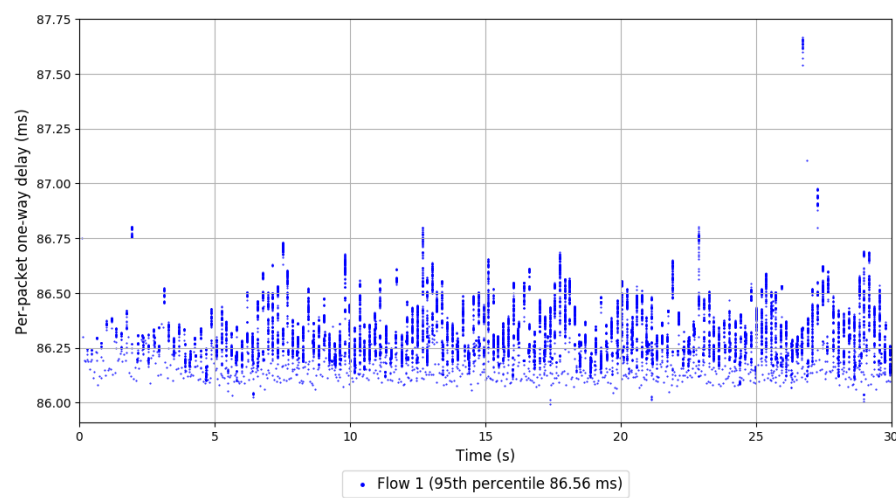
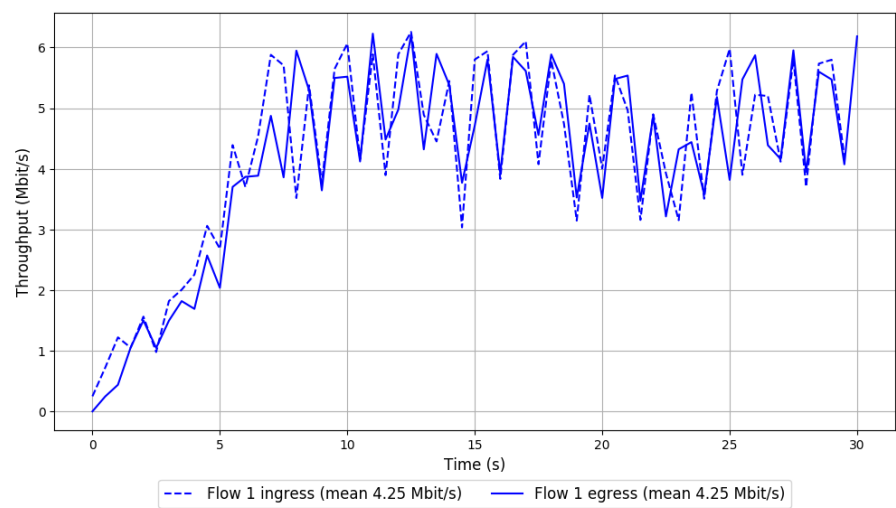


Run 2: Statistics of Sprout

Start at: 2019-01-21 04:17:34  
End at: 2019-01-21 04:18:04  
Local clock offset: 20.505 ms  
Remote clock offset: 20.066 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.25 Mbit/s  
95th percentile per-packet one-way delay: 86.562 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.25 Mbit/s  
95th percentile per-packet one-way delay: 86.562 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

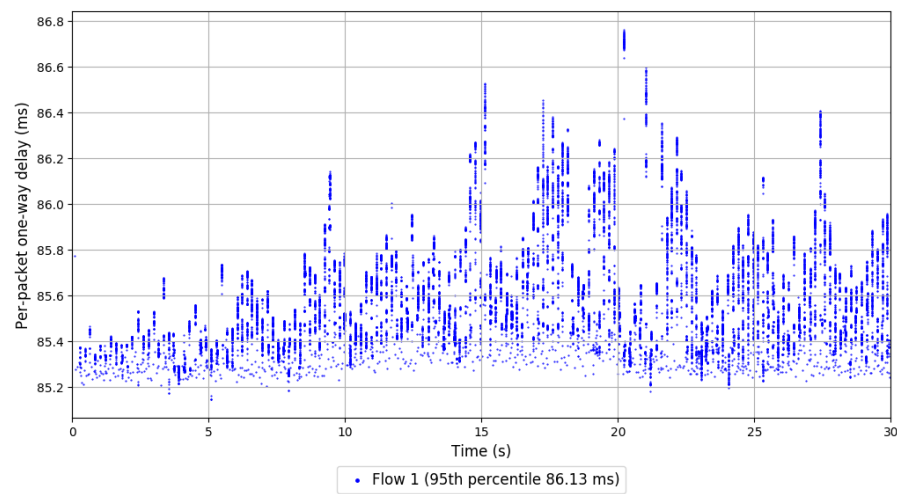
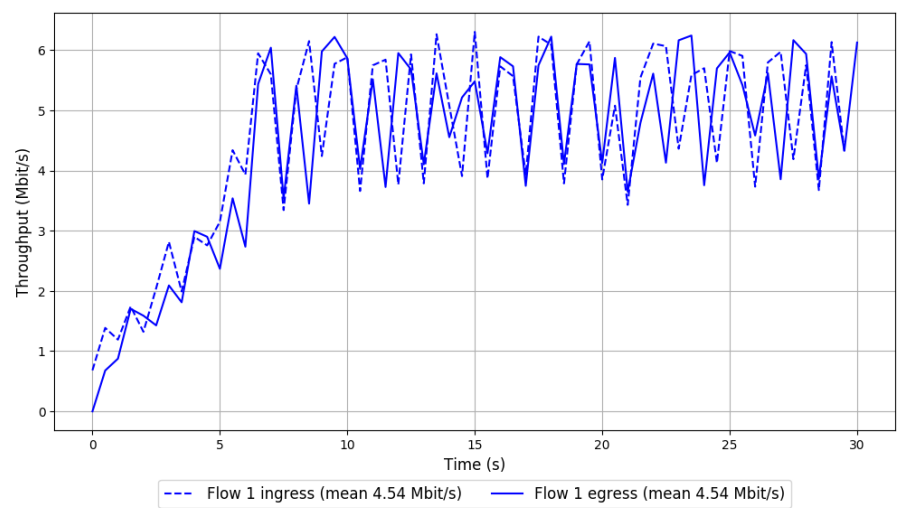


Run 3: Statistics of Sprout

Start at: 2019-01-21 04:49:07  
End at: 2019-01-21 04:49:37  
Local clock offset: 22.233 ms  
Remote clock offset: 21.116 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.54 Mbit/s  
95th percentile per-packet one-way delay: 86.127 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.54 Mbit/s  
95th percentile per-packet one-way delay: 86.127 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

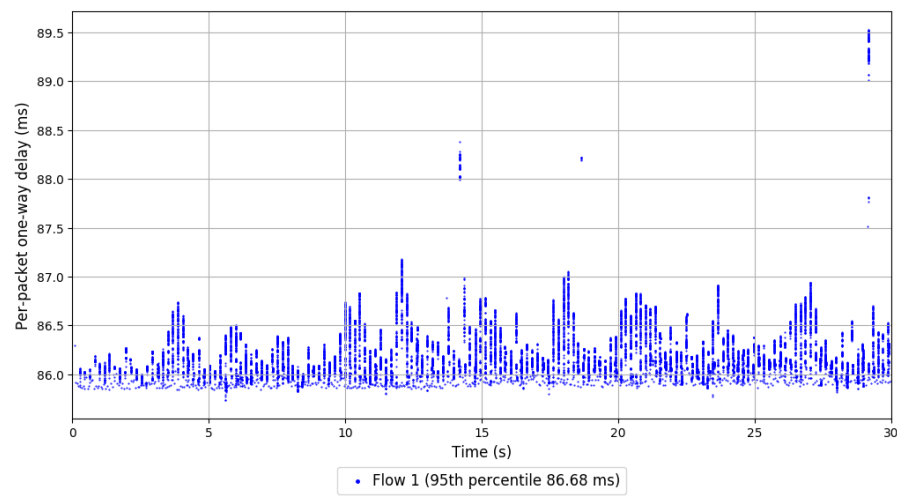
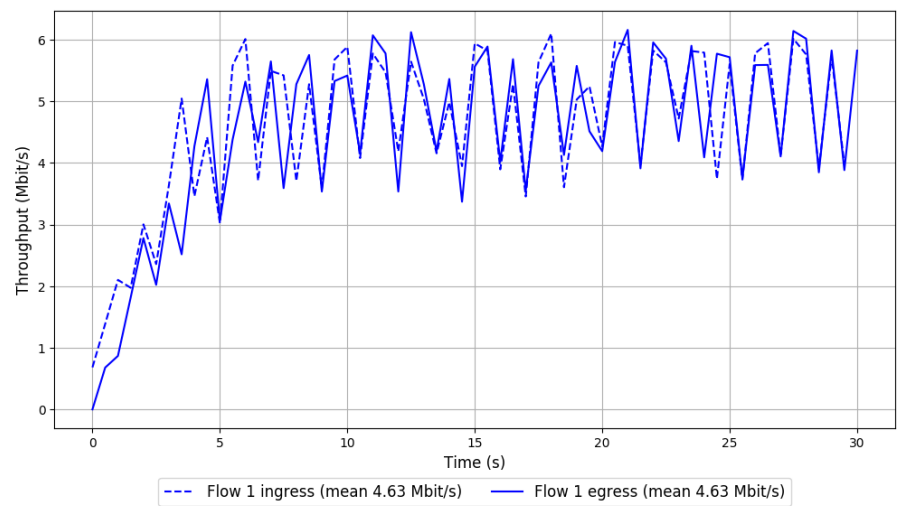


Run 4: Statistics of Sprout

Start at: 2019-01-21 05:20:45  
End at: 2019-01-21 05:21:15  
Local clock offset: 13.567 ms  
Remote clock offset: 12.059 ms

# Below is generated by plot.py at 2019-01-21 08:31:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.63 Mbit/s  
95th percentile per-packet one-way delay: 86.683 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.63 Mbit/s  
95th percentile per-packet one-way delay: 86.683 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-01-21 05:52:14

End at: 2019-01-21 05:52:44

Local clock offset: 7.907 ms

Remote clock offset: 3.639 ms

# Below is generated by plot.py at 2019-01-21 08:31:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 86.228 ms

Loss rate: 0.00%

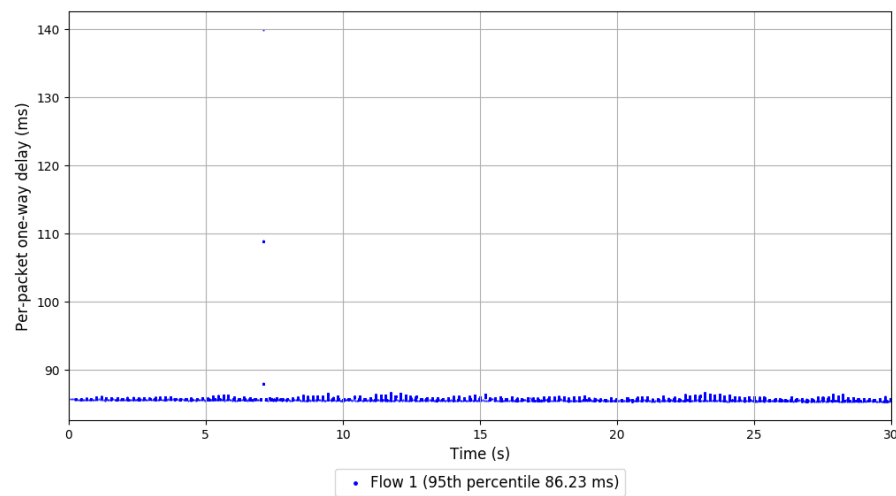
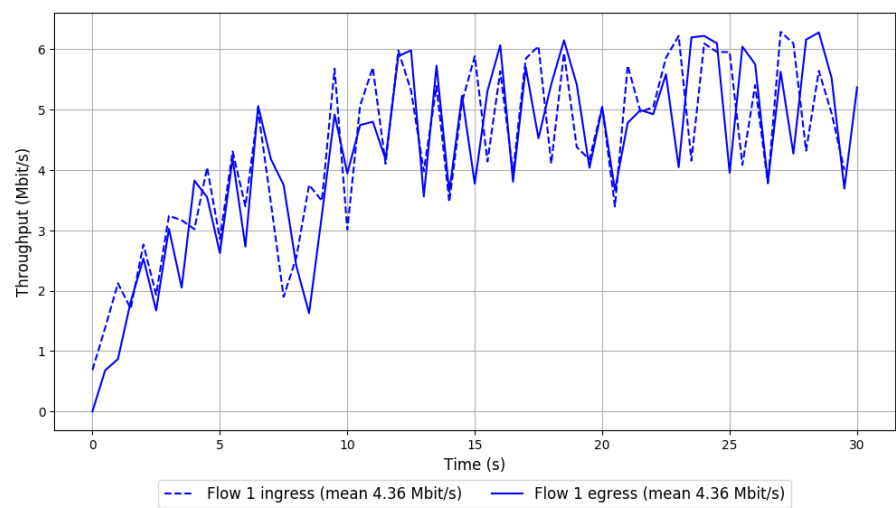
-- Flow 1:

Average throughput: 4.36 Mbit/s

95th percentile per-packet one-way delay: 86.228 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



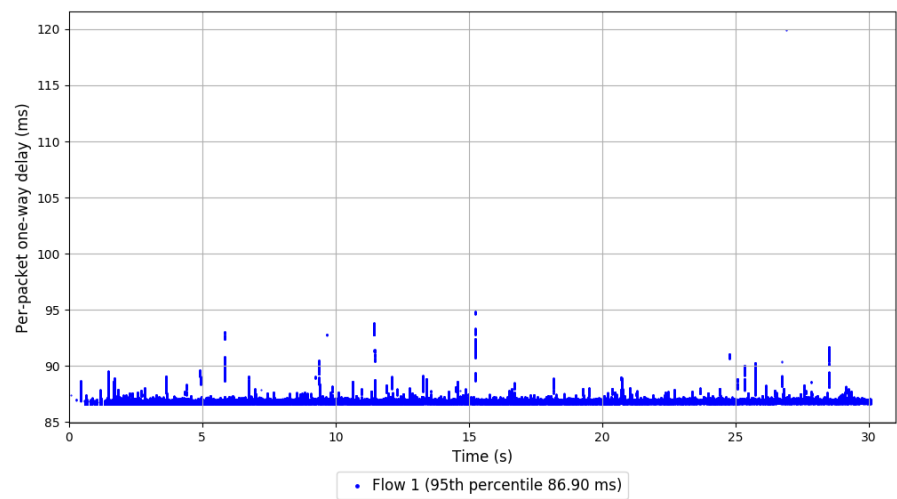
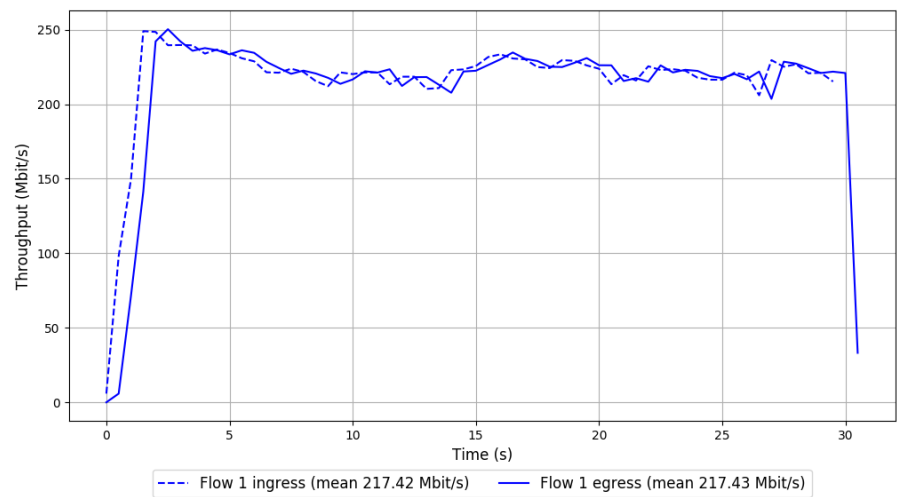


Run 1: Statistics of TaoVA-100x

Start at: 2019-01-21 04:05:29  
End at: 2019-01-21 04:05:59  
Local clock offset: 24.283 ms  
Remote clock offset: 24.252 ms

# Below is generated by plot.py at 2019-01-21 08:33:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 217.43 Mbit/s  
95th percentile per-packet one-way delay: 86.897 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 217.43 Mbit/s  
95th percentile per-packet one-way delay: 86.897 ms  
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-21 04:37:07

End at: 2019-01-21 04:37:37

Local clock offset: 36.34 ms

Remote clock offset: 35.446 ms

# Below is generated by plot.py at 2019-01-21 08:33:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.93 Mbit/s

95th percentile per-packet one-way delay: 87.079 ms

Loss rate: 0.00%

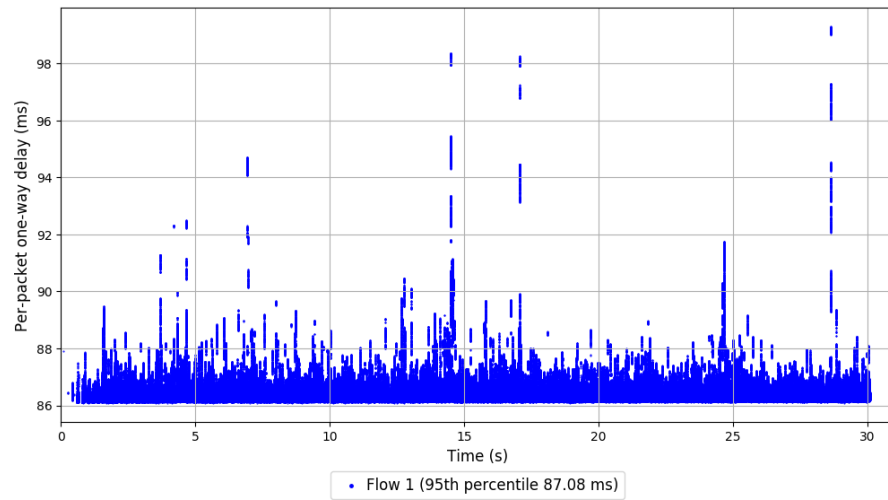
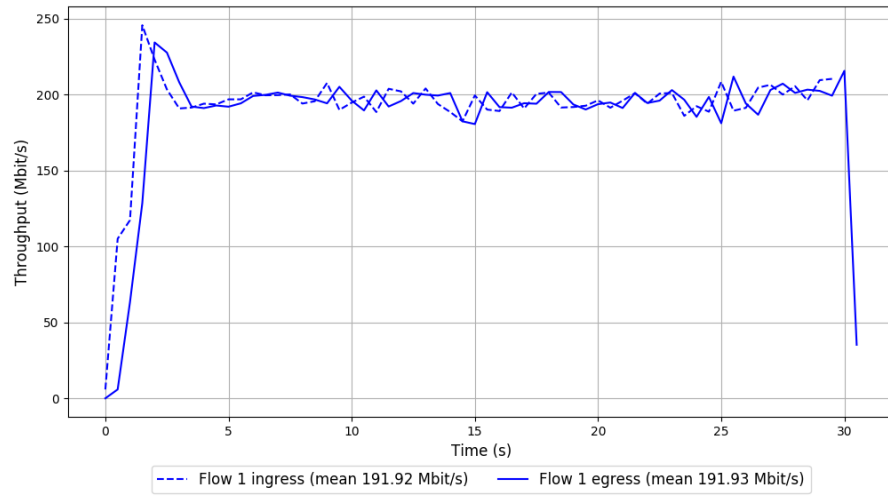
-- Flow 1:

Average throughput: 191.93 Mbit/s

95th percentile per-packet one-way delay: 87.079 ms

Loss rate: 0.00%

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

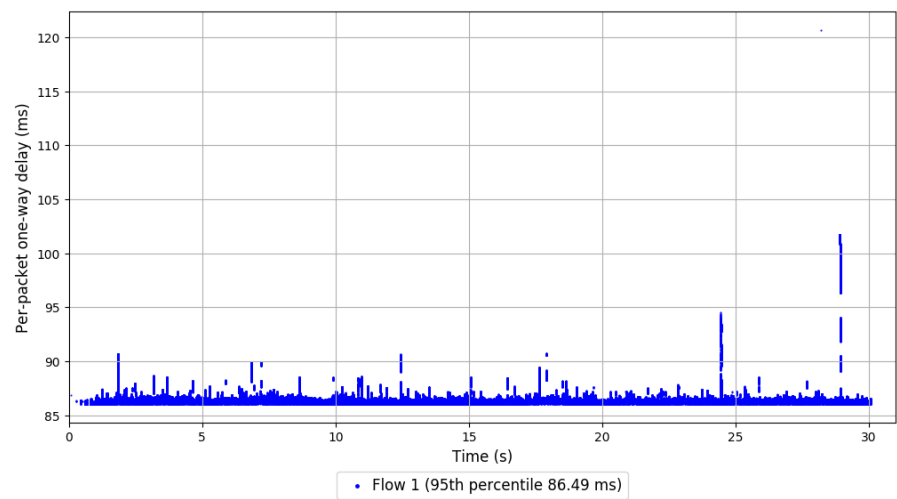
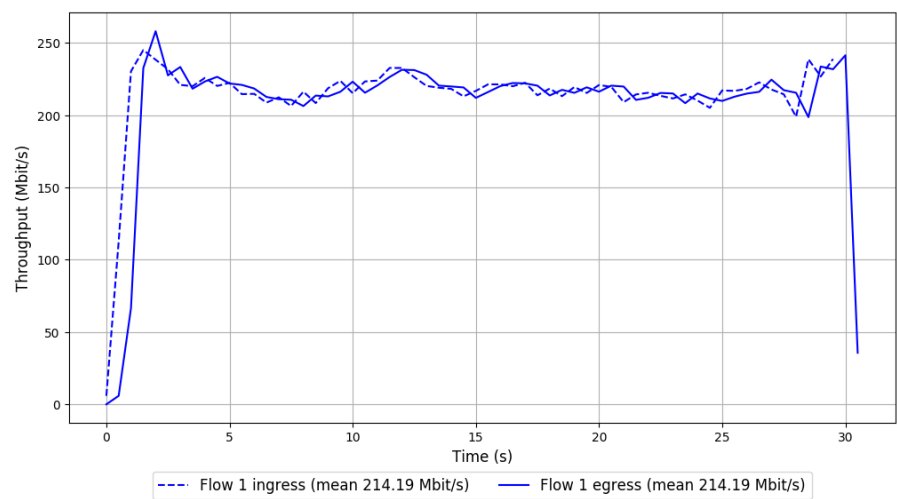


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-21 05:08:39  
End at: 2019-01-21 05:09:09  
Local clock offset: 17.508 ms  
Remote clock offset: 17.239 ms

# Below is generated by plot.py at 2019-01-21 08:34:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 214.19 Mbit/s  
95th percentile per-packet one-way delay: 86.489 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 214.19 Mbit/s  
95th percentile per-packet one-way delay: 86.489 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-21 05:40:12

End at: 2019-01-21 05:40:43

Local clock offset: 8.033 ms

Remote clock offset: 4.208 ms

# Below is generated by plot.py at 2019-01-21 08:34:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.58 Mbit/s

95th percentile per-packet one-way delay: 86.279 ms

Loss rate: 0.11%

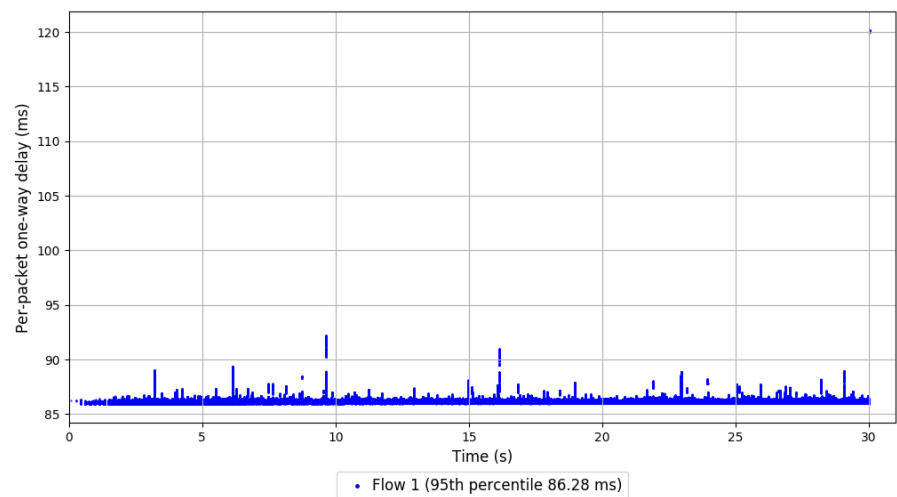
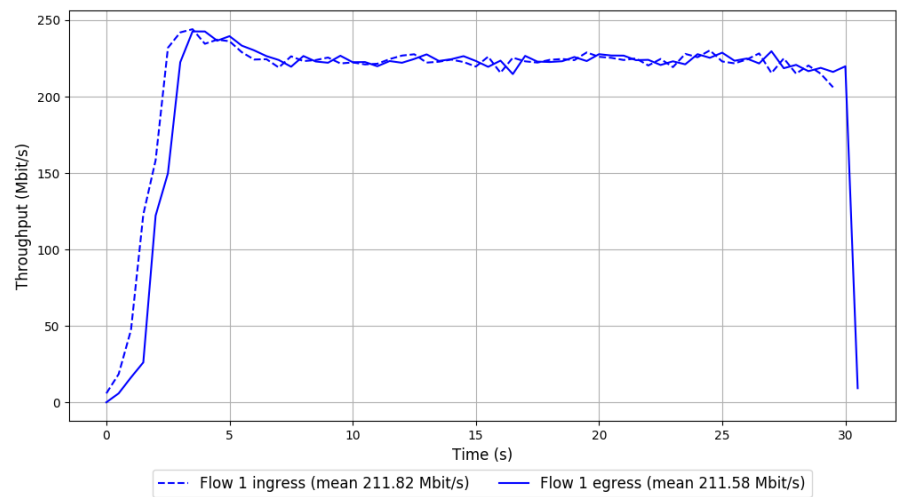
-- Flow 1:

Average throughput: 211.58 Mbit/s

95th percentile per-packet one-way delay: 86.279 ms

Loss rate: 0.11%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-21 06:12:29

End at: 2019-01-21 06:12:59

Local clock offset: 1.913 ms

Remote clock offset: 1.607 ms

# Below is generated by plot.py at 2019-01-21 08:34:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 216.65 Mbit/s

95th percentile per-packet one-way delay: 86.147 ms

Loss rate: 0.00%

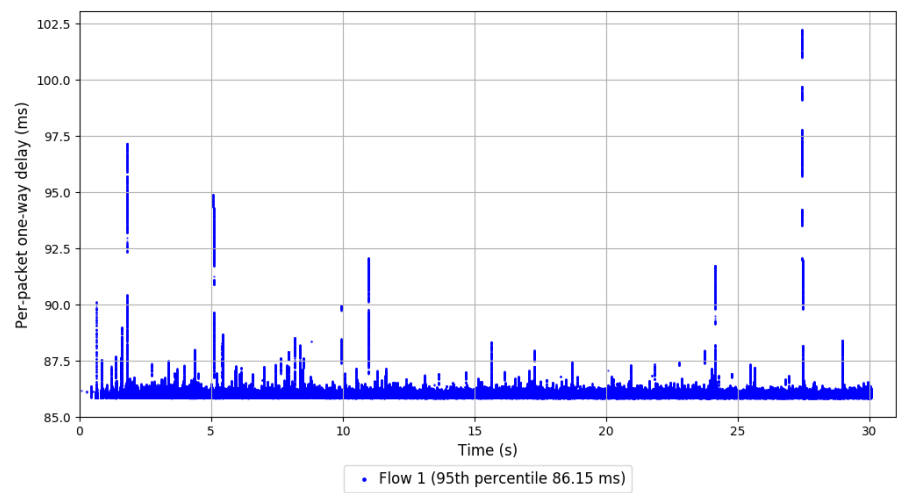
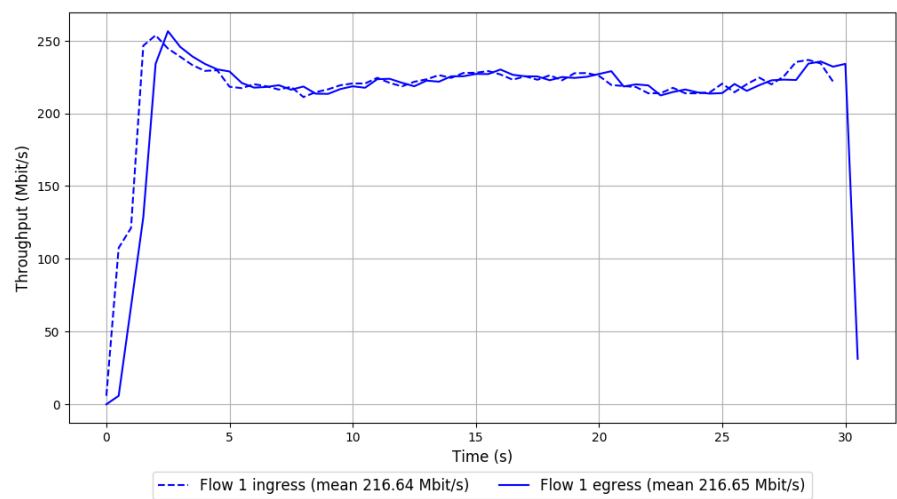
-- Flow 1:

Average throughput: 216.65 Mbit/s

95th percentile per-packet one-way delay: 86.147 ms

Loss rate: 0.00%

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

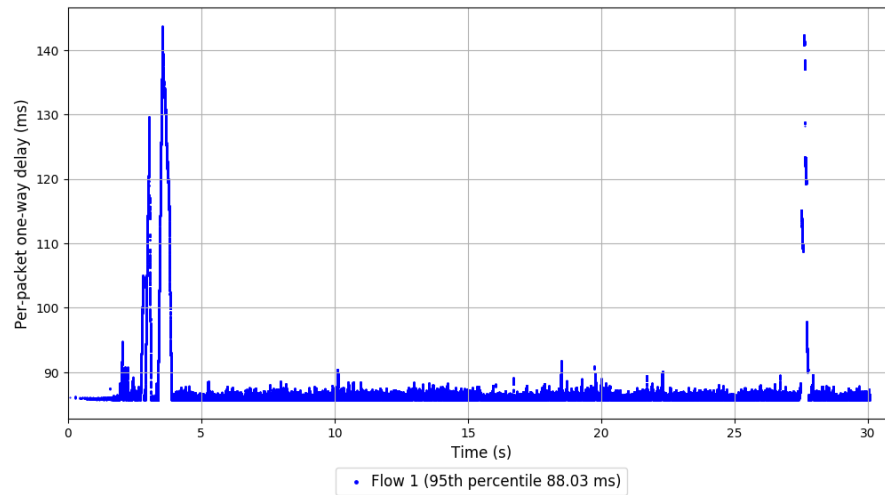
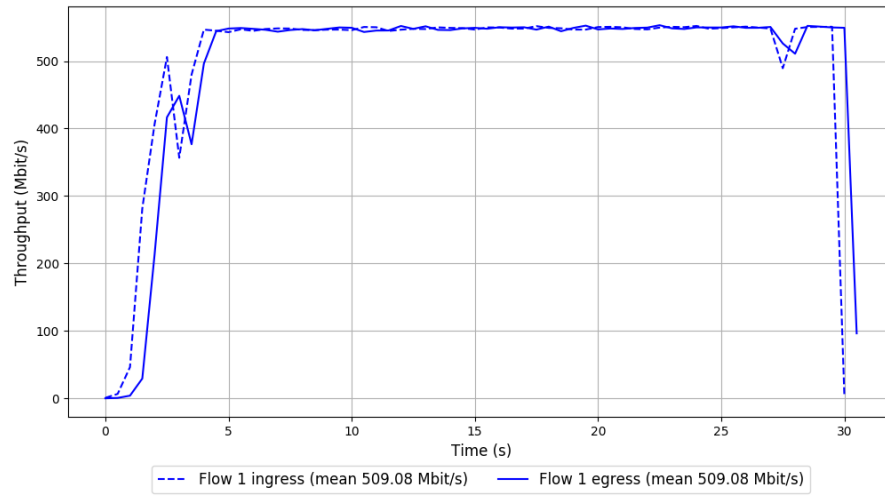


Run 1: Statistics of TCP Vegas

Start at: 2019-01-21 03:51:12  
End at: 2019-01-21 03:51:42  
Local clock offset: 16.742 ms  
Remote clock offset: 16.445 ms

# Below is generated by plot.py at 2019-01-21 08:43:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 509.08 Mbit/s  
95th percentile per-packet one-way delay: 88.032 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 509.08 Mbit/s  
95th percentile per-packet one-way delay: 88.032 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link

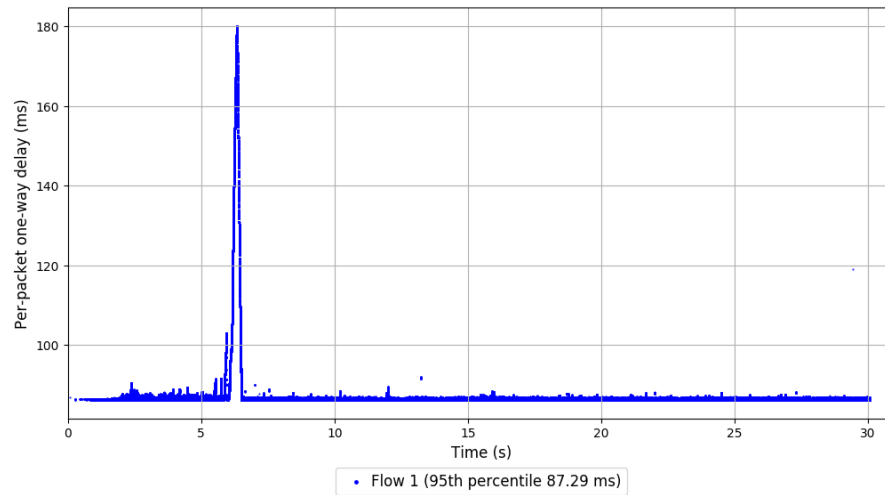
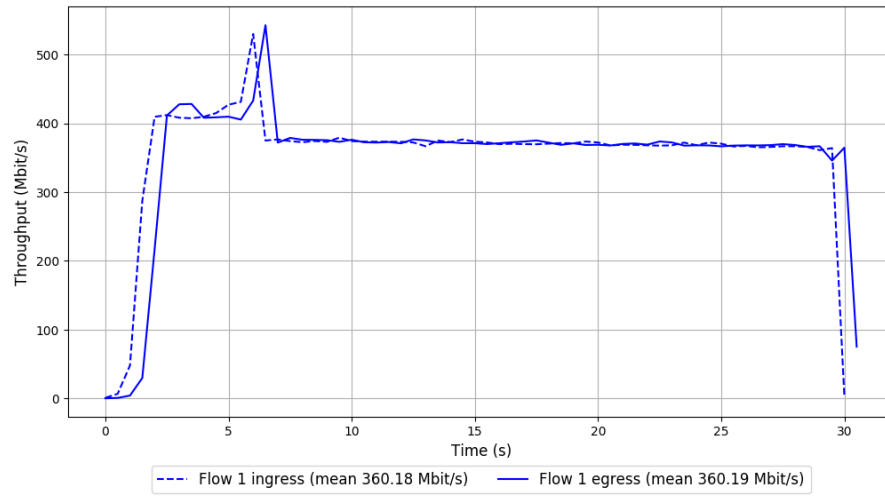


Run 2: Statistics of TCP Vegas

Start at: 2019-01-21 04:22:45  
End at: 2019-01-21 04:23:15  
Local clock offset: 22.638 ms  
Remote clock offset: 22.452 ms

# Below is generated by plot.py at 2019-01-21 08:43:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 360.19 Mbit/s  
95th percentile per-packet one-way delay: 87.288 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 360.19 Mbit/s  
95th percentile per-packet one-way delay: 87.288 ms  
Loss rate: 0.00%

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

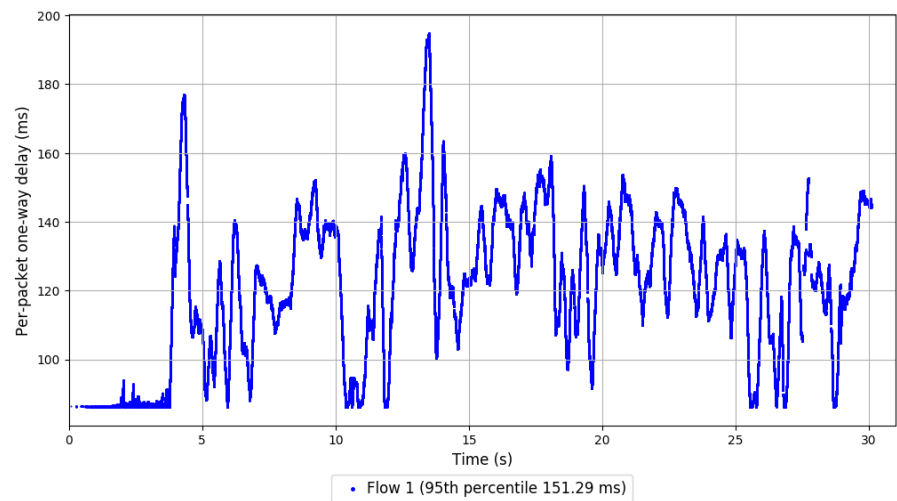
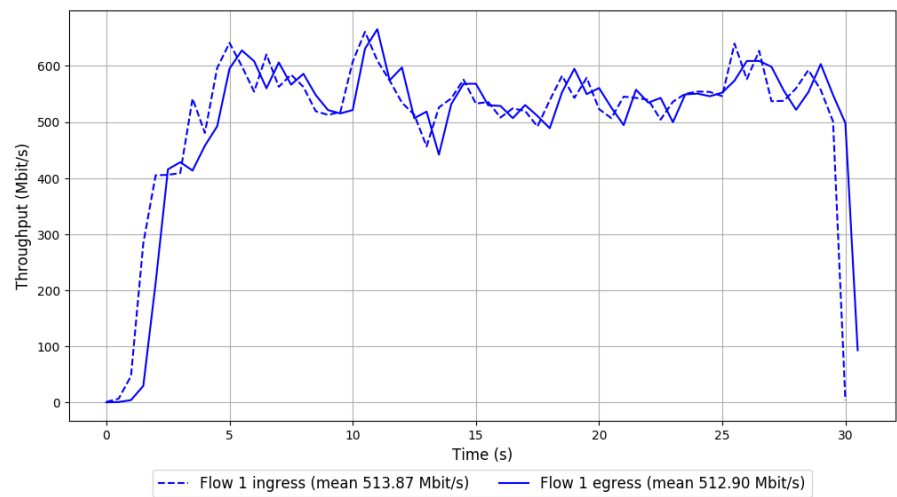


Run 3: Statistics of TCP Vegas

Start at: 2019-01-21 04:54:16  
End at: 2019-01-21 04:54:46  
Local clock offset: 16.674 ms  
Remote clock offset: 16.516 ms

# Below is generated by plot.py at 2019-01-21 08:44:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 512.90 Mbit/s  
95th percentile per-packet one-way delay: 151.288 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 512.90 Mbit/s  
95th percentile per-packet one-way delay: 151.288 ms  
Loss rate: 0.18%

Run 3: Report of TCP Vegas — Data Link





Run 4: Statistics of TCP Vegas

Start at: 2019-01-21 05:26:01

End at: 2019-01-21 05:26:31

Local clock offset: 8.834 ms

Remote clock offset: 7.406 ms

# Below is generated by plot.py at 2019-01-21 08:45:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 471.72 Mbit/s

95th percentile per-packet one-way delay: 97.551 ms

Loss rate: 0.08%

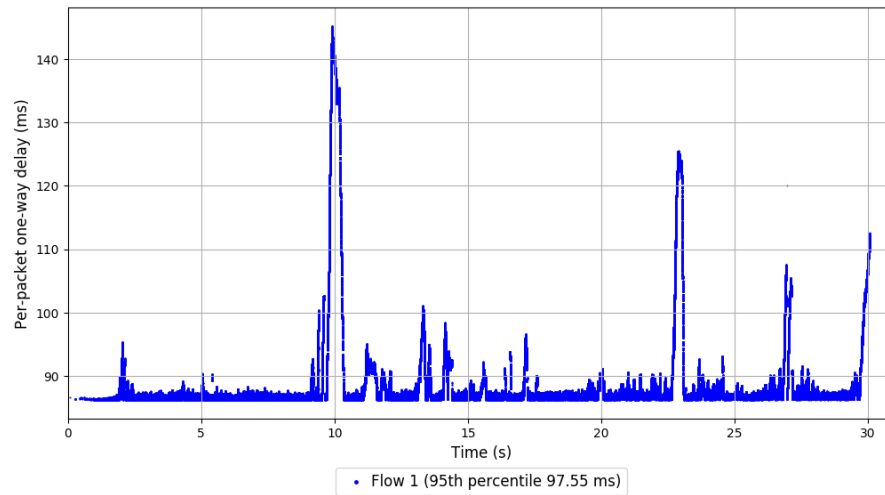
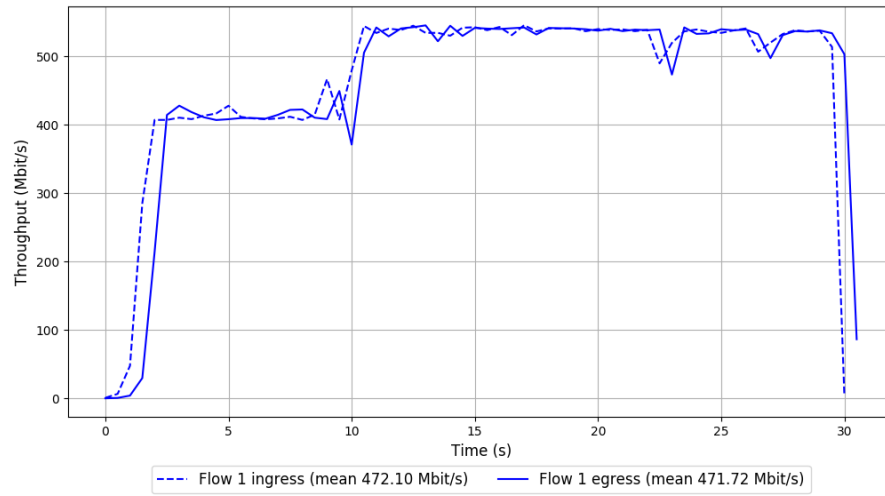
-- Flow 1:

Average throughput: 471.72 Mbit/s

95th percentile per-packet one-way delay: 97.551 ms

Loss rate: 0.08%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-01-21 05:57:31

End at: 2019-01-21 05:58:01

Local clock offset: 4.068 ms

Remote clock offset: 2.469 ms

# Below is generated by plot.py at 2019-01-21 08:46:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 493.03 Mbit/s

95th percentile per-packet one-way delay: 133.288 ms

Loss rate: 0.13%

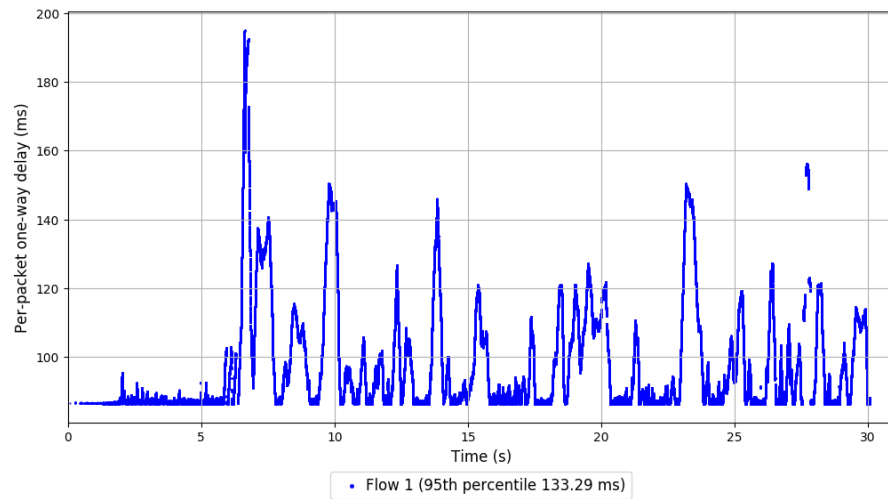
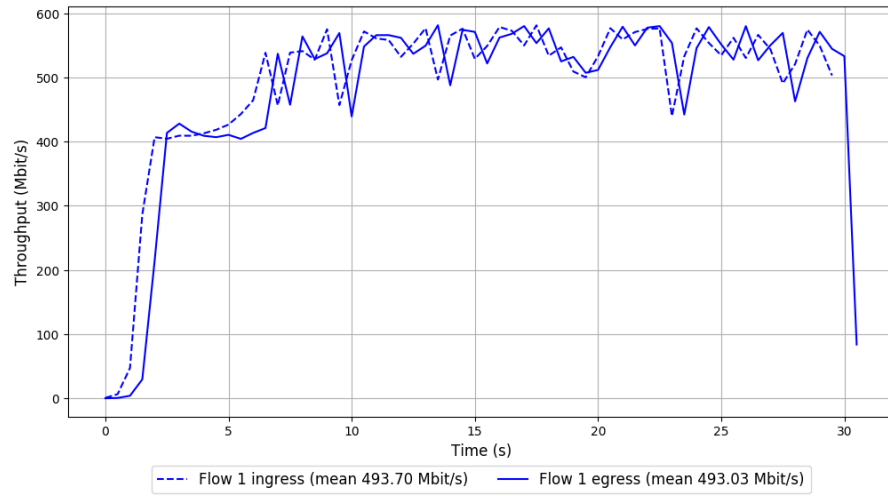
-- Flow 1:

Average throughput: 493.03 Mbit/s

95th percentile per-packet one-way delay: 133.288 ms

Loss rate: 0.13%

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

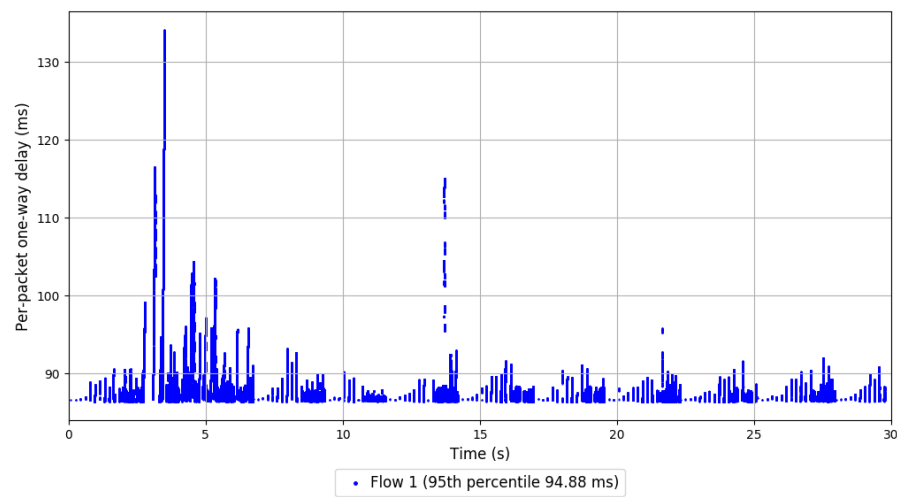
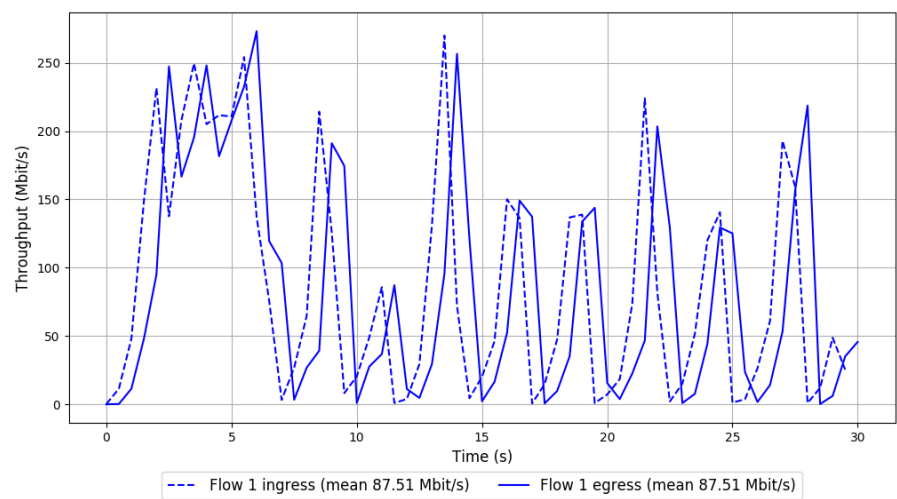


Run 1: Statistics of Verus

Start at: 2019-01-21 03:59:41  
End at: 2019-01-21 04:00:11  
Local clock offset: 16.932 ms  
Remote clock offset: 16.566 ms

# Below is generated by plot.py at 2019-01-21 08:46:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.51 Mbit/s  
95th percentile per-packet one-way delay: 94.880 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 87.51 Mbit/s  
95th percentile per-packet one-way delay: 94.880 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

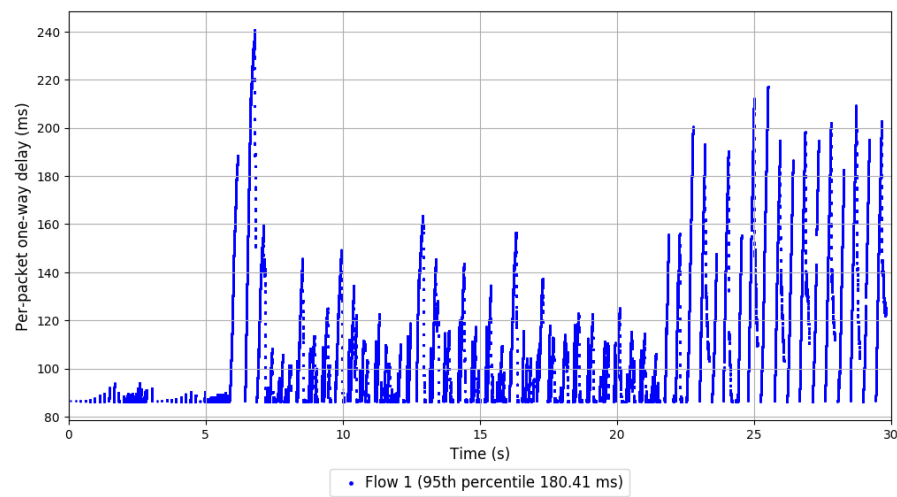
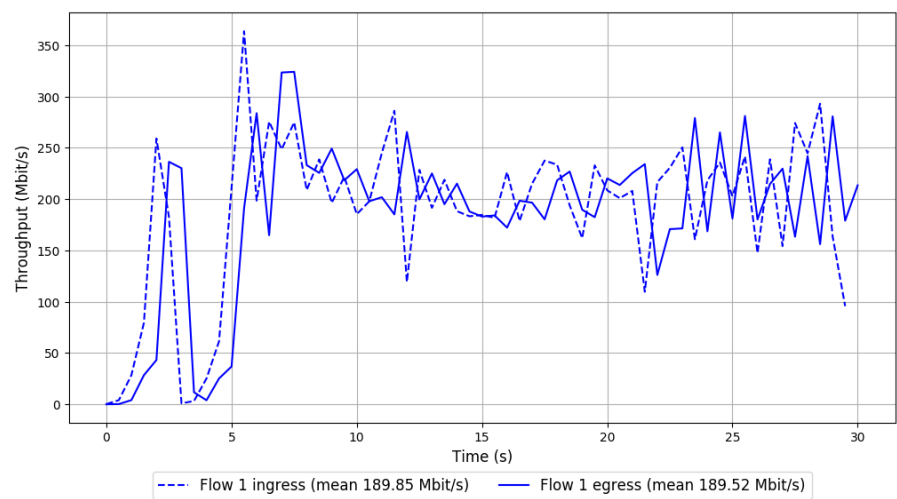


Run 2: Statistics of Verus

Start at: 2019-01-21 04:31:08  
End at: 2019-01-21 04:31:38  
Local clock offset: 29.894 ms  
Remote clock offset: 29.455 ms

# Below is generated by plot.py at 2019-01-21 08:46:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 189.52 Mbit/s  
95th percentile per-packet one-way delay: 180.413 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 189.52 Mbit/s  
95th percentile per-packet one-way delay: 180.413 ms  
Loss rate: 0.04%

Run 2: Report of Verus — Data Link



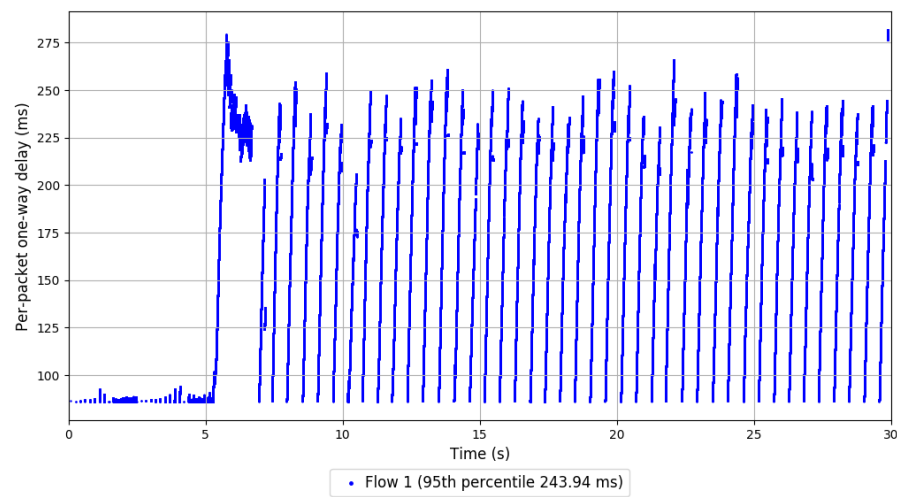
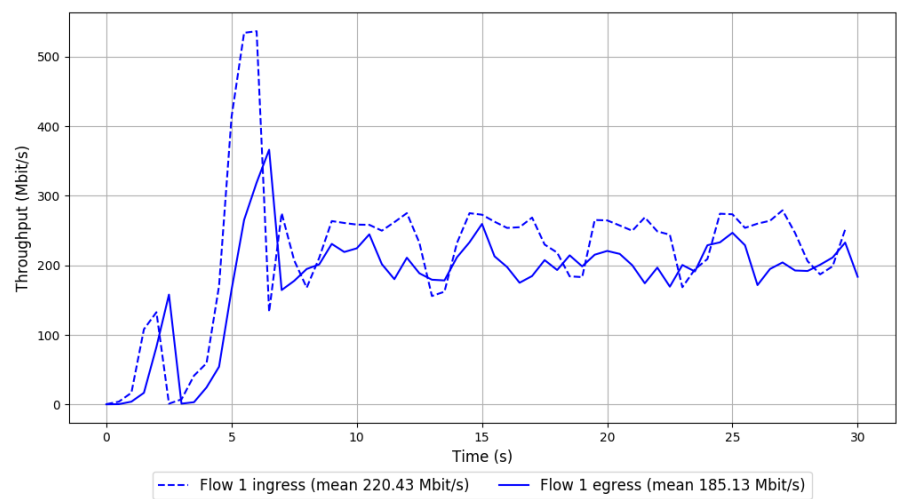


Run 3: Statistics of Verus

Start at: 2019-01-21 05:02:42  
End at: 2019-01-21 05:03:13  
Local clock offset: 15.992 ms  
Remote clock offset: 15.563 ms

# Below is generated by plot.py at 2019-01-21 08:46:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 185.13 Mbit/s  
95th percentile per-packet one-way delay: 243.940 ms  
Loss rate: 15.65%  
-- Flow 1:  
Average throughput: 185.13 Mbit/s  
95th percentile per-packet one-way delay: 243.940 ms  
Loss rate: 15.65%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-21 05:34:31

End at: 2019-01-21 05:35:01

Local clock offset: 7.597 ms

Remote clock offset: 4.724 ms

# Below is generated by plot.py at 2019-01-21 08:46:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 98.01 Mbit/s

95th percentile per-packet one-way delay: 131.203 ms

Loss rate: 1.44%

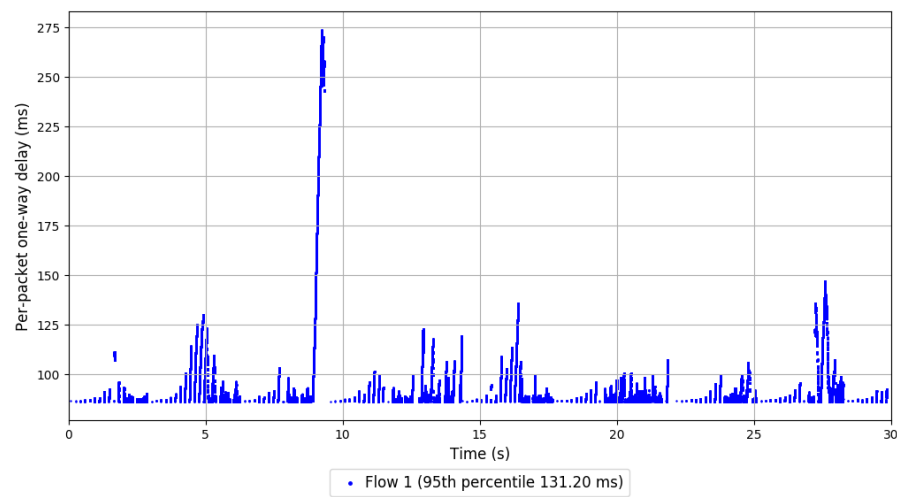
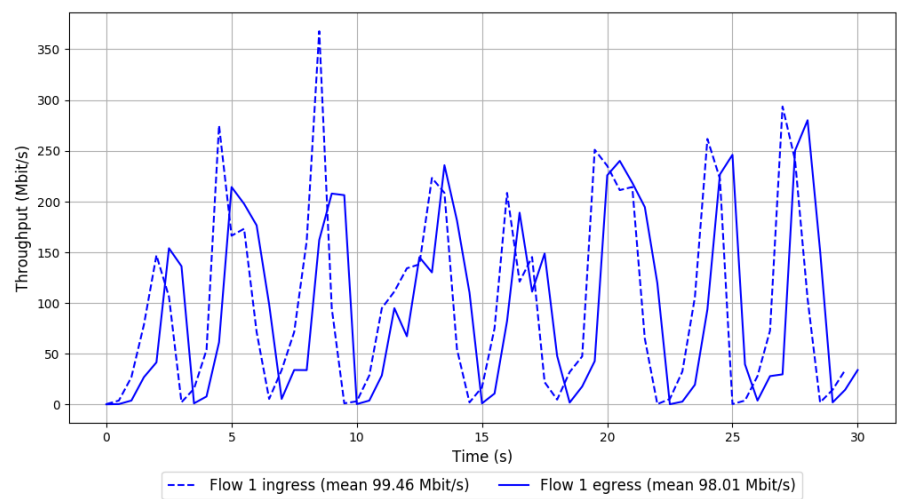
-- Flow 1:

Average throughput: 98.01 Mbit/s

95th percentile per-packet one-way delay: 131.203 ms

Loss rate: 1.44%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-21 06:06:16

End at: 2019-01-21 06:06:46

Local clock offset: 2.323 ms

Remote clock offset: 1.828 ms

# Below is generated by plot.py at 2019-01-21 08:46:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 100.25 Mbit/s

95th percentile per-packet one-way delay: 201.232 ms

Loss rate: 0.96%

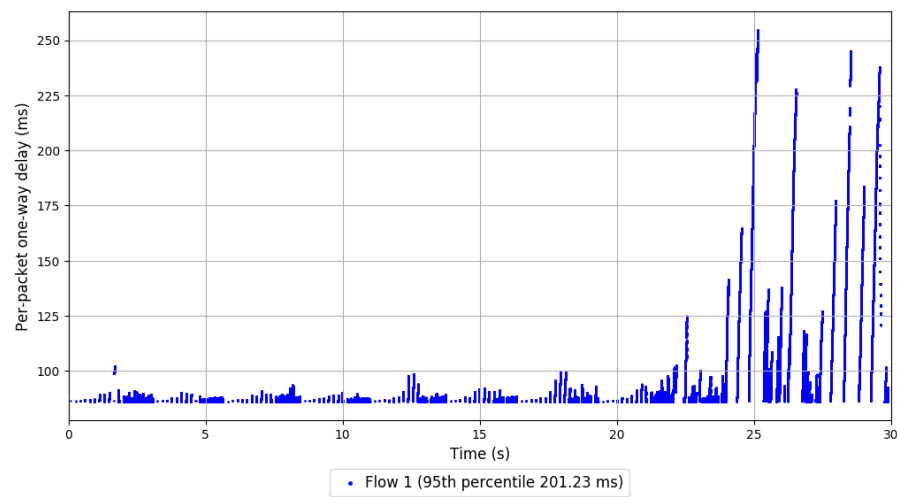
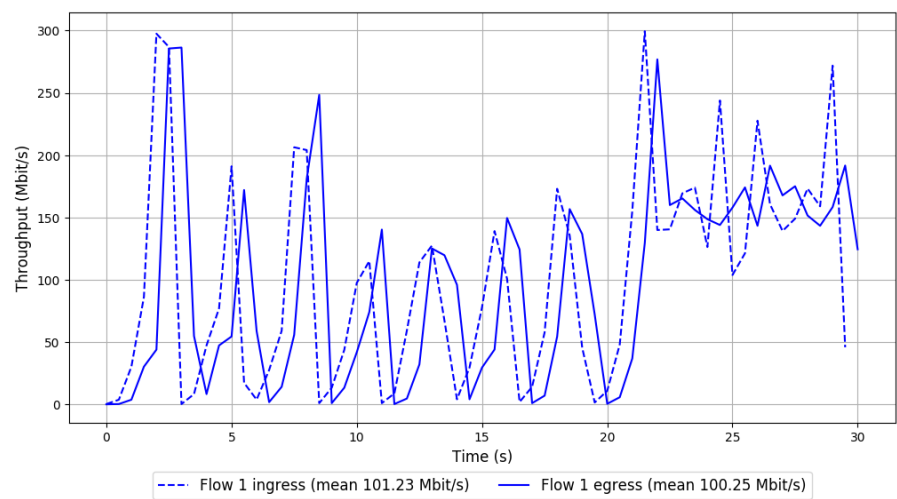
-- Flow 1:

Average throughput: 100.25 Mbit/s

95th percentile per-packet one-way delay: 201.232 ms

Loss rate: 0.96%

Run 5: Report of Verus — Data Link

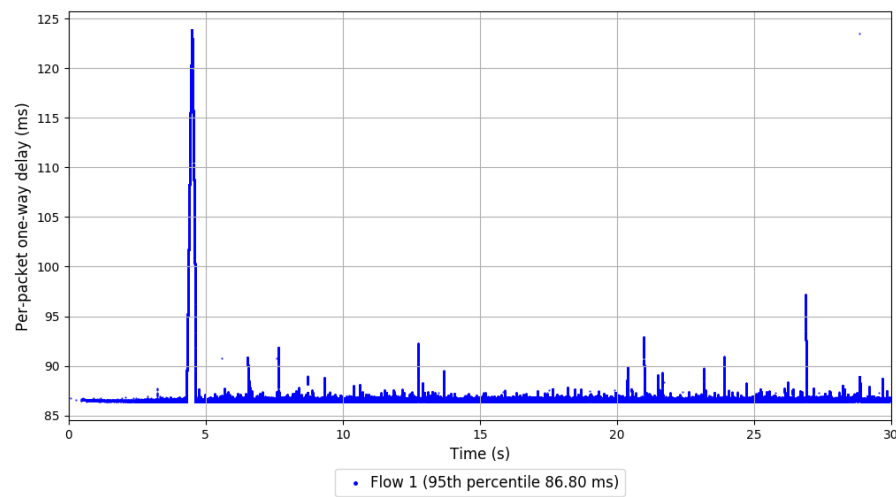
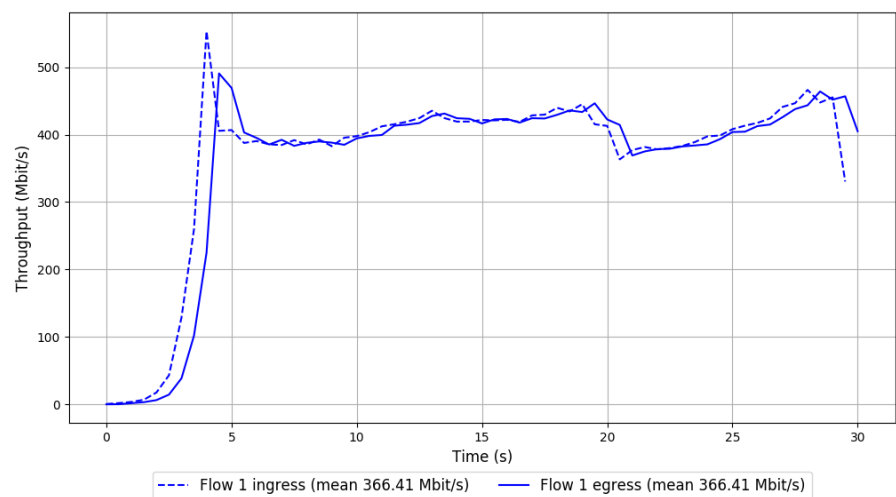


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-21 03:52:49  
End at: 2019-01-21 03:53:19  
Local clock offset: 14.213 ms  
Remote clock offset: 14.157 ms

# Below is generated by plot.py at 2019-01-21 08:50:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 366.41 Mbit/s  
95th percentile per-packet one-way delay: 86.798 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 366.41 Mbit/s  
95th percentile per-packet one-way delay: 86.798 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



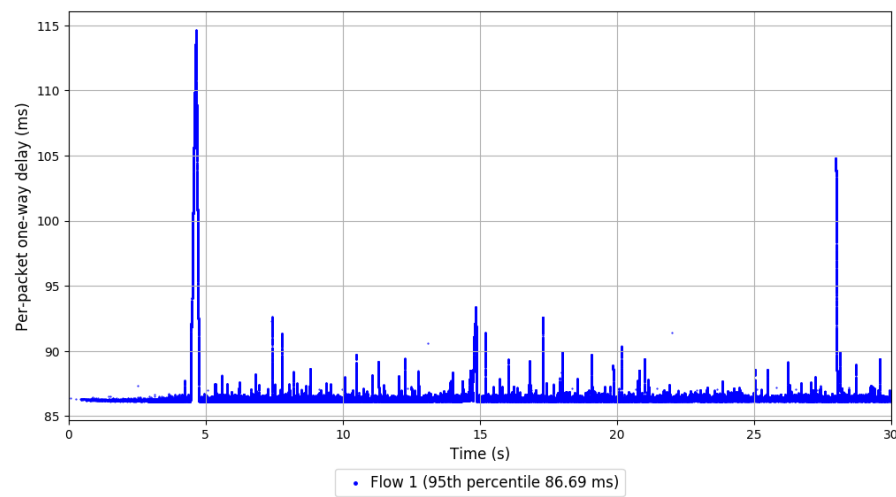
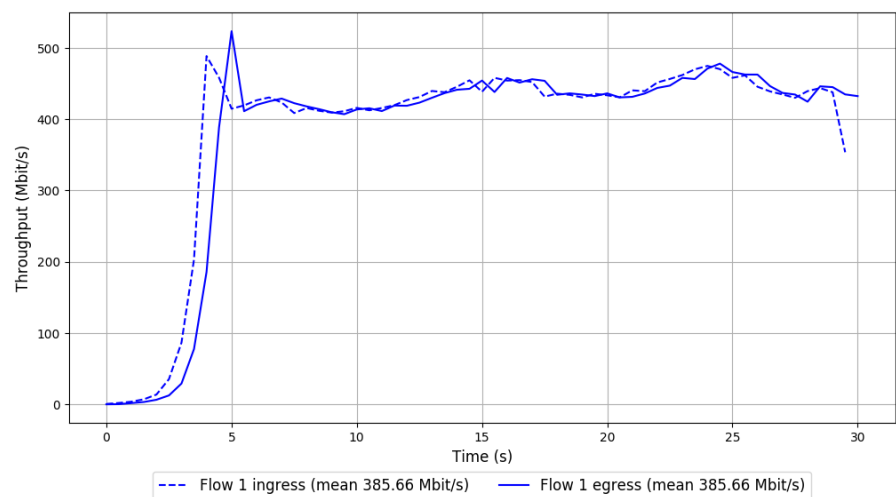


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-21 04:24:13  
End at: 2019-01-21 04:24:44  
Local clock offset: 23.837 ms  
Remote clock offset: 23.444 ms

# Below is generated by plot.py at 2019-01-21 08:50:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 385.66 Mbit/s  
95th percentile per-packet one-way delay: 86.693 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 385.66 Mbit/s  
95th percentile per-packet one-way delay: 86.693 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

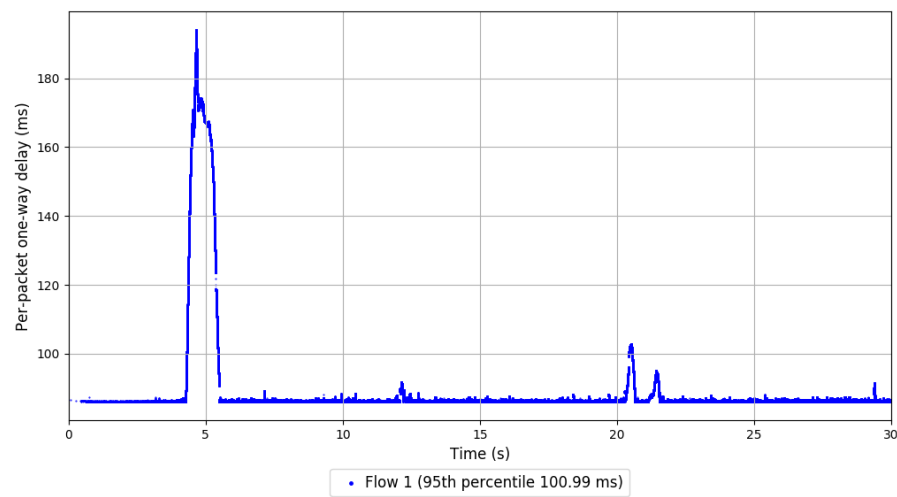
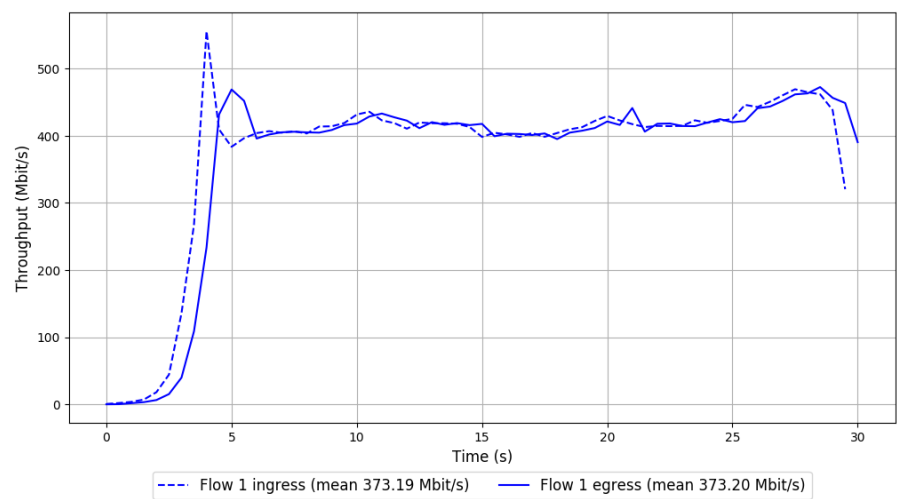


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-21 04:55:52  
End at: 2019-01-21 04:56:22  
Local clock offset: 16.455 ms  
Remote clock offset: 15.801 ms

# Below is generated by plot.py at 2019-01-21 08:50:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 373.20 Mbit/s  
95th percentile per-packet one-way delay: 100.993 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 373.20 Mbit/s  
95th percentile per-packet one-way delay: 100.993 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-21 05:27:36

End at: 2019-01-21 05:28:06

Local clock offset: 8.736 ms

Remote clock offset: 6.71 ms

# Below is generated by plot.py at 2019-01-21 08:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 350.58 Mbit/s

95th percentile per-packet one-way delay: 86.802 ms

Loss rate: 0.00%

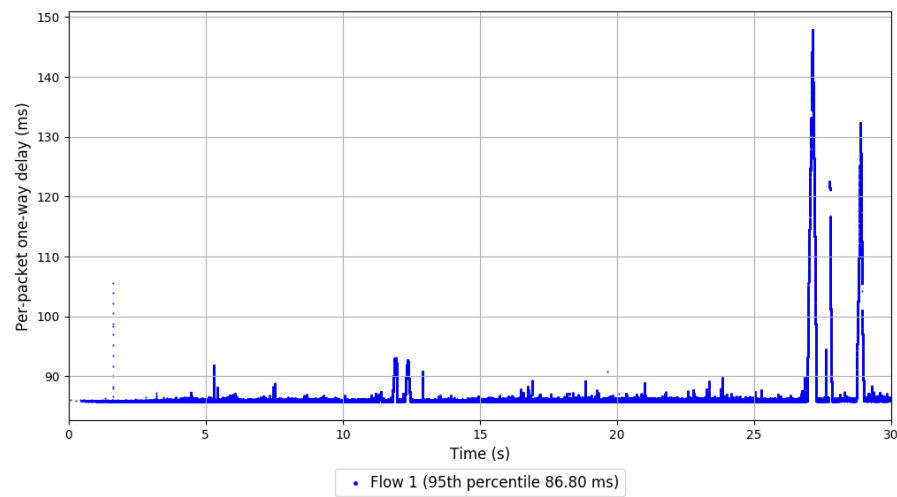
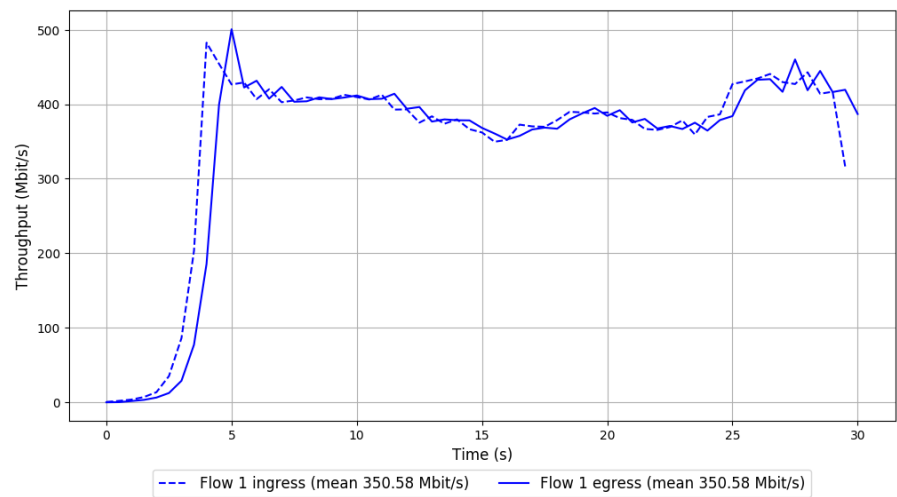
-- Flow 1:

Average throughput: 350.58 Mbit/s

95th percentile per-packet one-way delay: 86.802 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-21 05:59:06

End at: 2019-01-21 05:59:36

Local clock offset: 4.279 ms

Remote clock offset: 2.205 ms

# Below is generated by plot.py at 2019-01-21 08:50:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 389.70 Mbit/s

95th percentile per-packet one-way delay: 88.467 ms

Loss rate: 0.00%

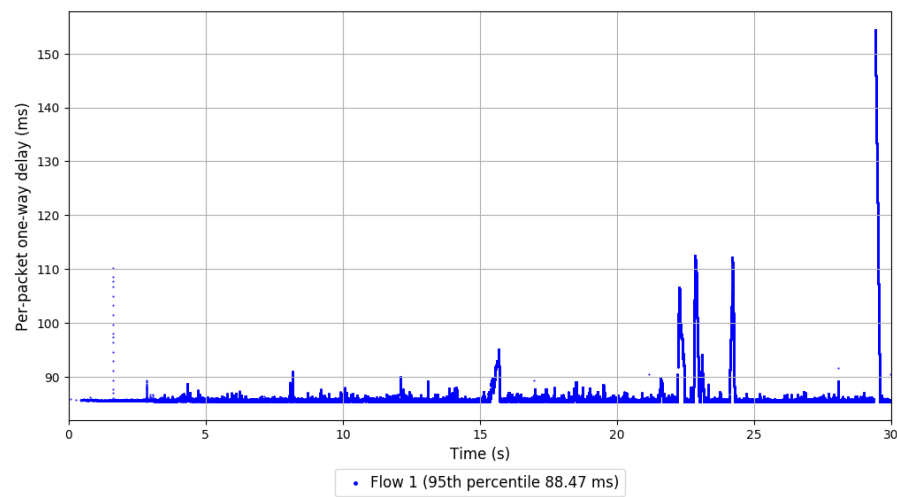
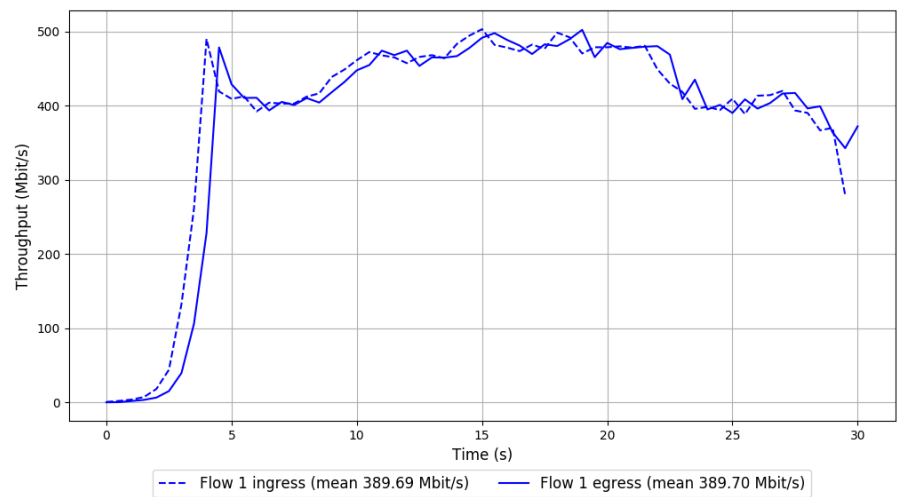
-- Flow 1:

Average throughput: 389.70 Mbit/s

95th percentile per-packet one-way delay: 88.467 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



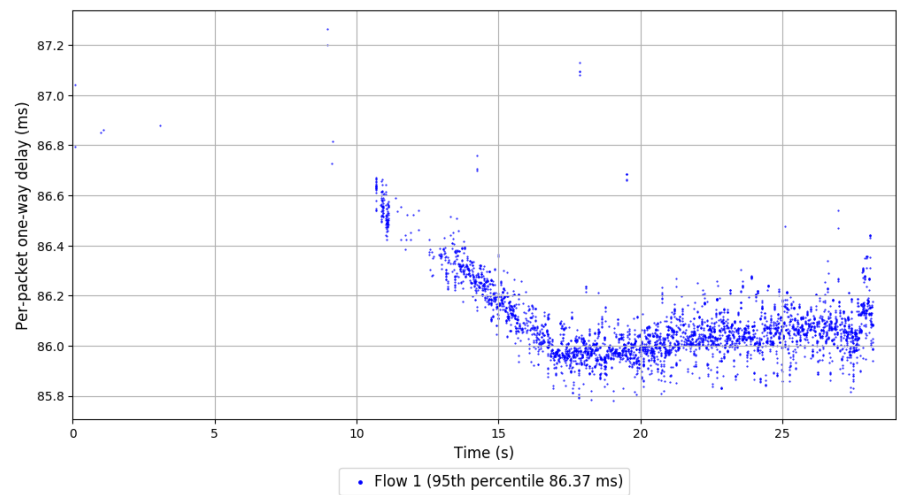
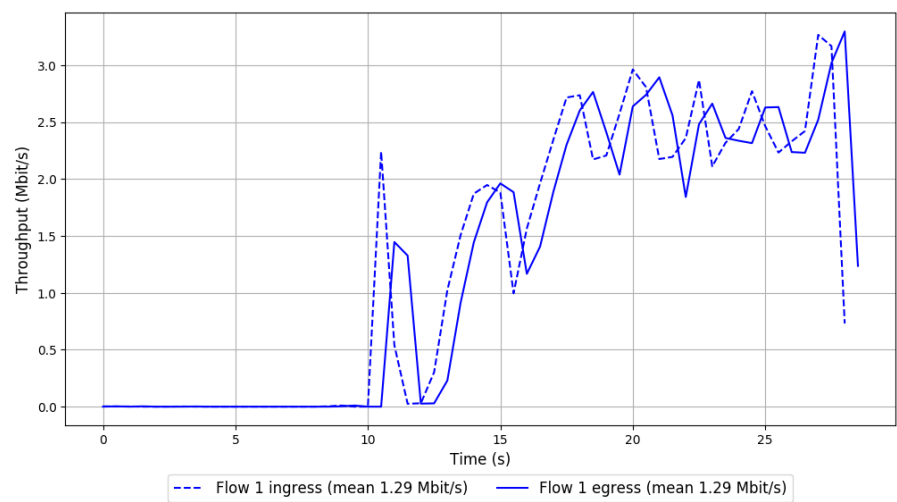


Run 1: Statistics of WebRTC media

Start at: 2019-01-21 03:41:25  
End at: 2019-01-21 03:41:55  
Local clock offset: 10.575 ms  
Remote clock offset: 10.756 ms

# Below is generated by plot.py at 2019-01-21 08:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 86.367 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 86.367 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

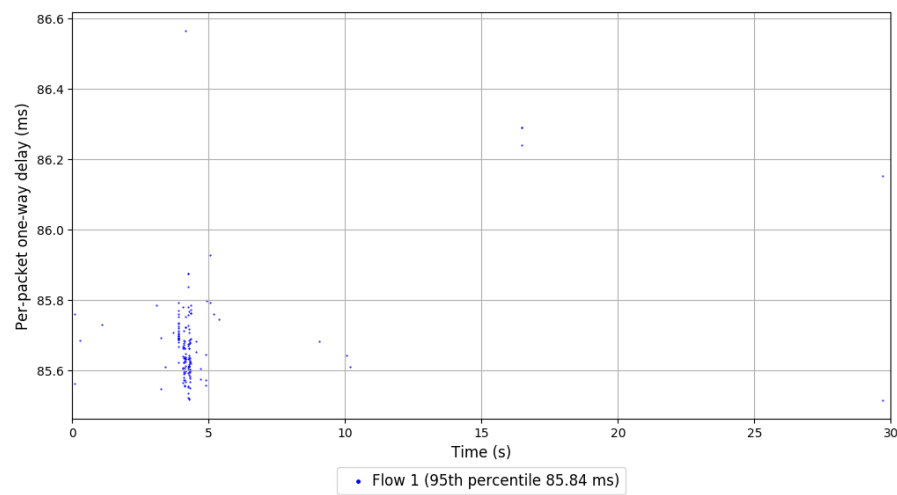
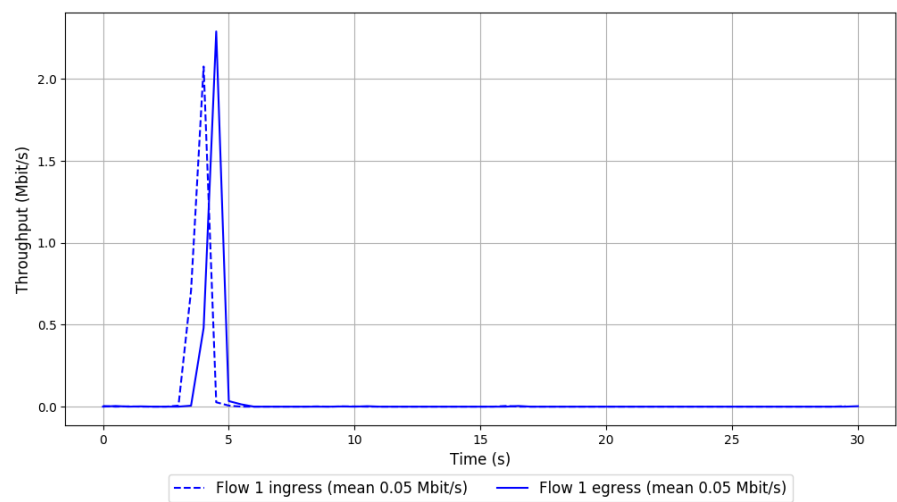


Run 2: Statistics of WebRTC media

Start at: 2019-01-21 04:13:05  
End at: 2019-01-21 04:13:35  
Local clock offset: 21.52 ms  
Remote clock offset: 20.646 ms

# Below is generated by plot.py at 2019-01-21 08:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 85.839 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 85.839 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

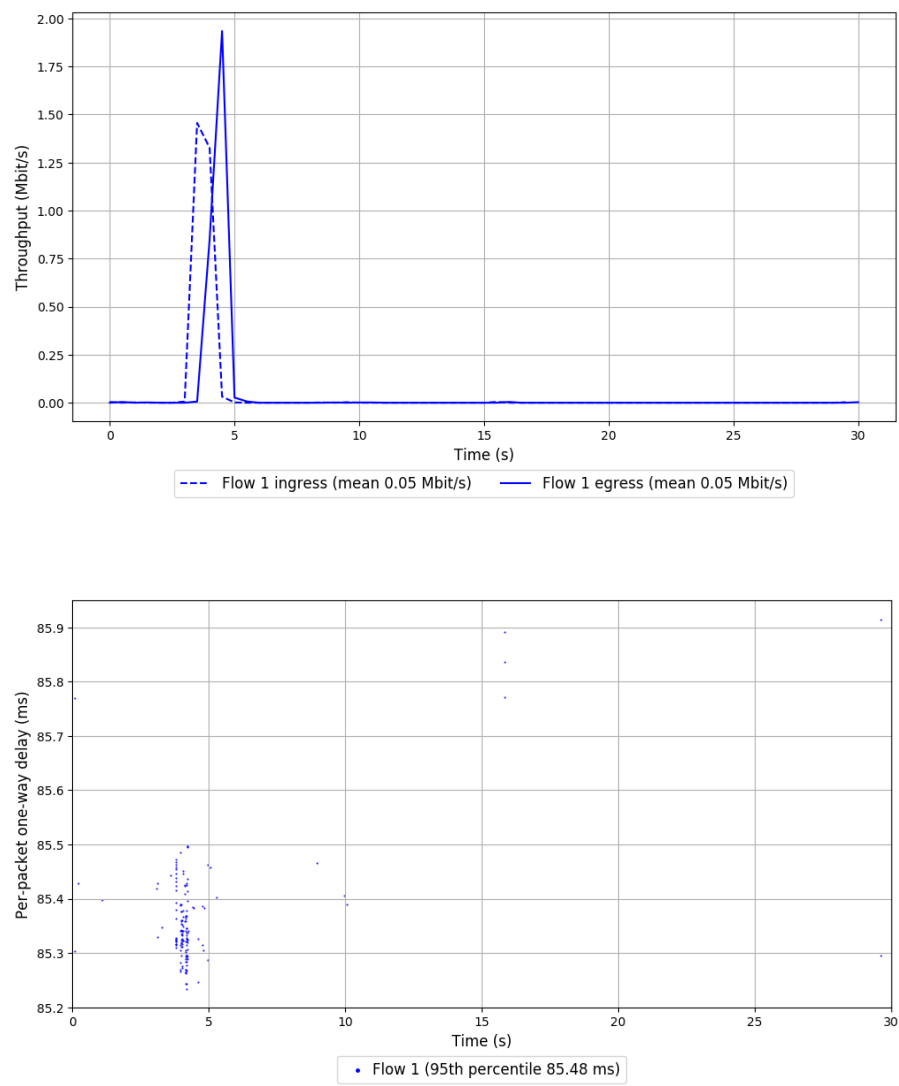


Run 3: Statistics of WebRTC media

Start at: 2019-01-21 04:44:38  
End at: 2019-01-21 04:45:08  
Local clock offset: 31.578 ms  
Remote clock offset: 30.197 ms

# Below is generated by plot.py at 2019-01-21 08:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 85.485 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 85.485 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

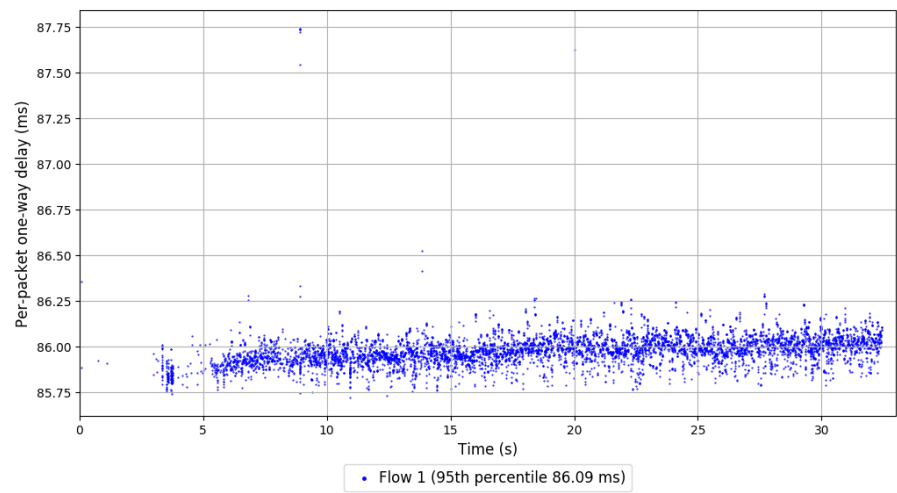
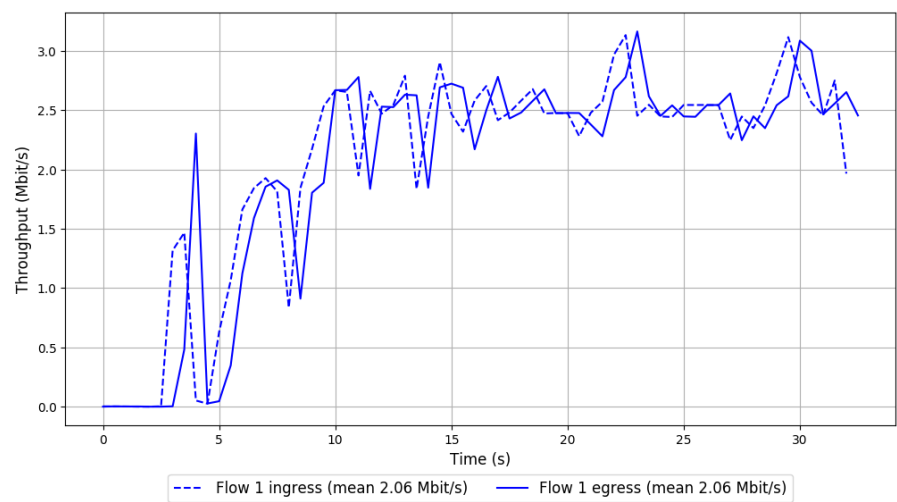


Run 4: Statistics of WebRTC media

Start at: 2019-01-21 05:16:16  
End at: 2019-01-21 05:16:46  
Local clock offset: 20.002 ms  
Remote clock offset: 19.156 ms

# Below is generated by plot.py at 2019-01-21 08:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 86.093 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 86.093 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-21 05:47:45

End at: 2019-01-21 05:48:15

Local clock offset: 9.876 ms

Remote clock offset: 4.467 ms

# Below is generated by plot.py at 2019-01-21 08:50:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 85.873 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 85.873 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

