

## Pantheon Report

Generated at 2019-01-17 21:00:24 (UTC).

Data path: GCE Sydney on `ens4` (*local*) → GCE London 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:

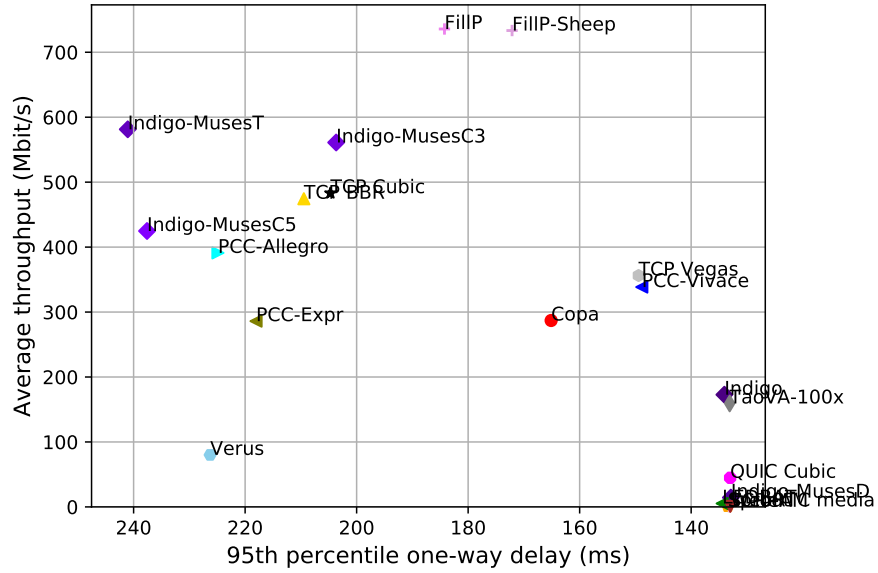
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

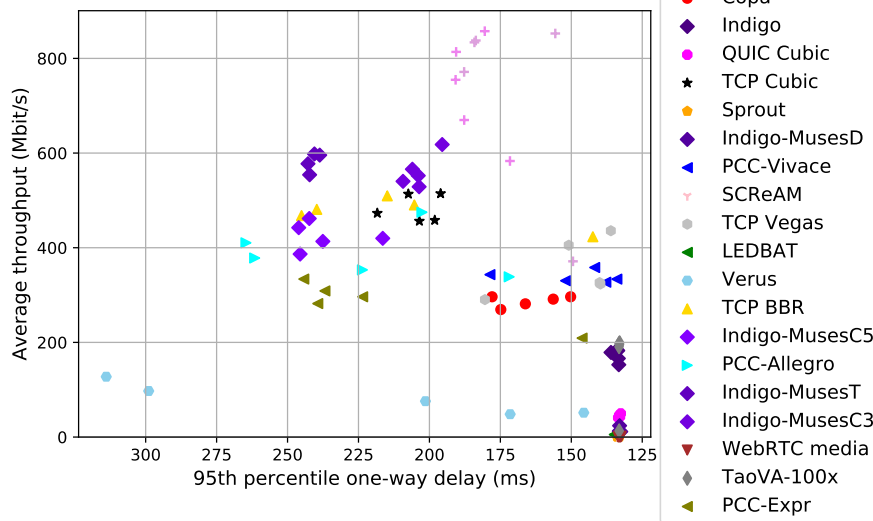
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d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

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Sydney to GCE London, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE Sydney to GCE London, 5 runs of 30s each per 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      | 474.45                           | 209.46                              | 1.22                         |
| Copa           | 5      | 287.01                           | 165.11                              | 0.05                         |
| TCP Cubic      | 5      | 483.08                           | 204.70                              | 0.09                         |
| FillP          | 5      | 735.82                           | 184.24                              | 1.18                         |
| FillP-Sheep    | 5      | 733.42                           | 172.12                              | 0.53                         |
| Indigo         | 5      | 172.80                           | 134.04                              | 0.00                         |
| Indigo-MusesC3 | 5      | 561.06                           | 203.67                              | 0.13                         |
| Indigo-MusesC5 | 5      | 424.80                           | 237.60                              | 6.97                         |
| Indigo-MusesD  | 5      | 14.36                            | 132.88                              | 0.00                         |
| Indigo-MusesT  | 4      | 581.35                           | 241.05                              | 6.90                         |
| LEDBAT         | 5      | 5.27                             | 134.44                              | 0.00                         |
| PCC-Allegro    | 5      | 391.07                           | 224.87                              | 2.40                         |
| PCC-Expr       | 5      | 285.99                           | 218.04                              | 2.69                         |
| QUIC Cubic     | 4      | 44.83                            | 133.01                              | 0.00                         |
| SCReAM         | 5      | 0.15                             | 133.17                              | 0.00                         |
| Sprout         | 5      | 0.69                             | 133.42                              | 0.00                         |
| TaoVA-100x     | 5      | 159.28                           | 133.09                              | 0.00                         |
| TCP Vegas      | 5      | 356.24                           | 149.43                              | 0.09                         |
| Verus          | 5      | 80.08                            | 226.27                              | 8.00                         |
| PCC-Vivace     | 5      | 338.50                           | 148.85                              | 0.12                         |
| WebRTC media   | 5      | 0.82                             | 132.98                              | 0.00                         |



Run 1: Statistics of TCP BBR

Start at: 2019-01-17 16:35:20

End at: 2019-01-17 16:35:51

Local clock offset: 0.113 ms

Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-01-17 19:38:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 509.62 Mbit/s

95th percentile per-packet one-way delay: 214.848 ms

Loss rate: 0.77%

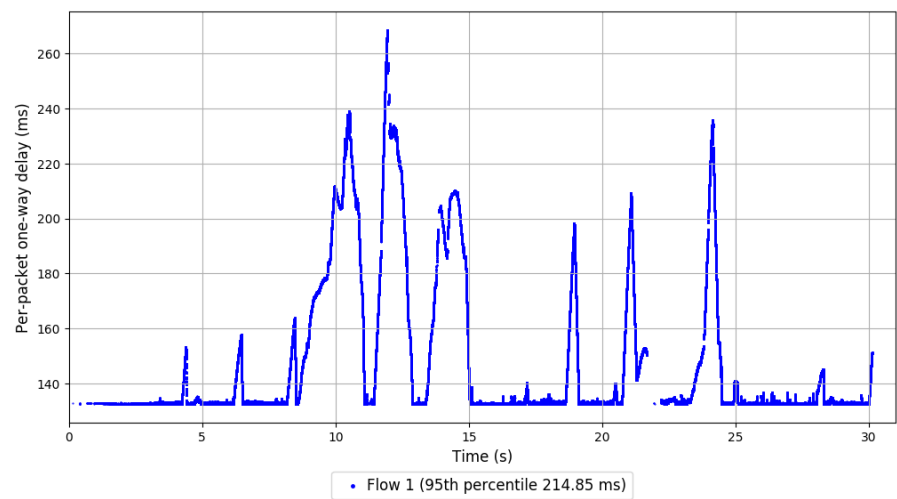
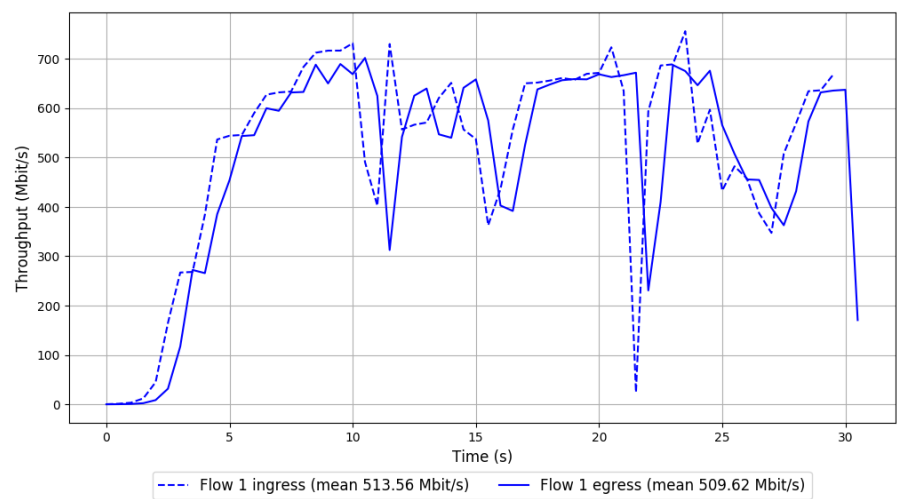
-- Flow 1:

Average throughput: 509.62 Mbit/s

95th percentile per-packet one-way delay: 214.848 ms

Loss rate: 0.77%

Run 1: Report of TCP BBR — Data Link

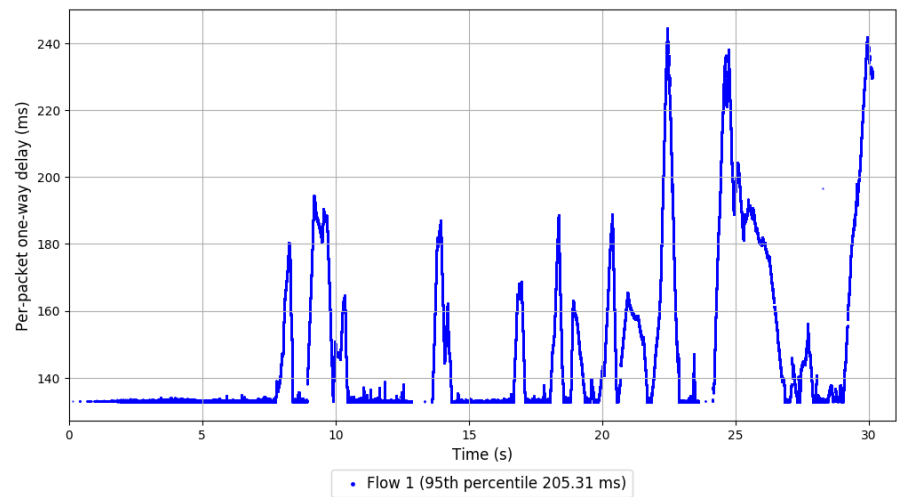
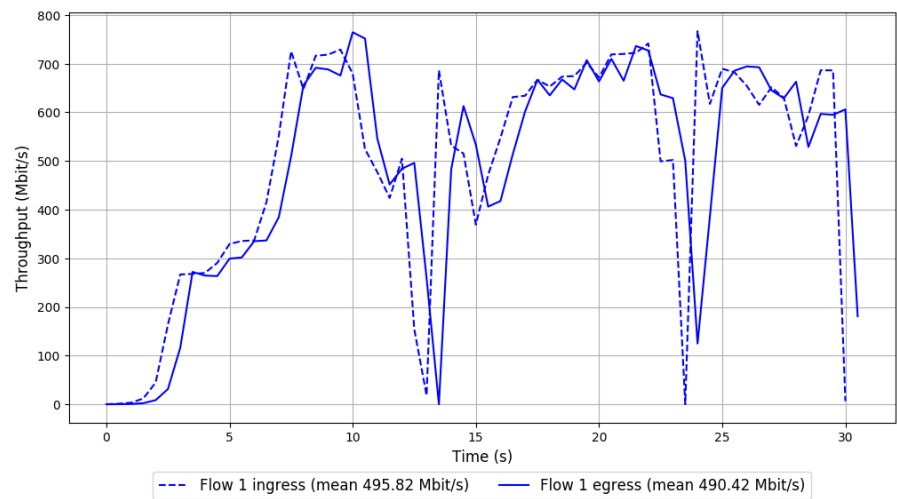


Run 2: Statistics of TCP BBR

Start at: 2019-01-17 17:07:30  
End at: 2019-01-17 17:08:00  
Local clock offset: -0.124 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-01-17 19:38:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 490.42 Mbit/s  
95th percentile per-packet one-way delay: 205.305 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 490.42 Mbit/s  
95th percentile per-packet one-way delay: 205.305 ms  
Loss rate: 1.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-17 17:43:42

End at: 2019-01-17 17:44:12

Local clock offset: -0.29 ms

Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-17 19:38:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 423.20 Mbit/s

95th percentile per-packet one-way delay: 142.404 ms

Loss rate: 0.07%

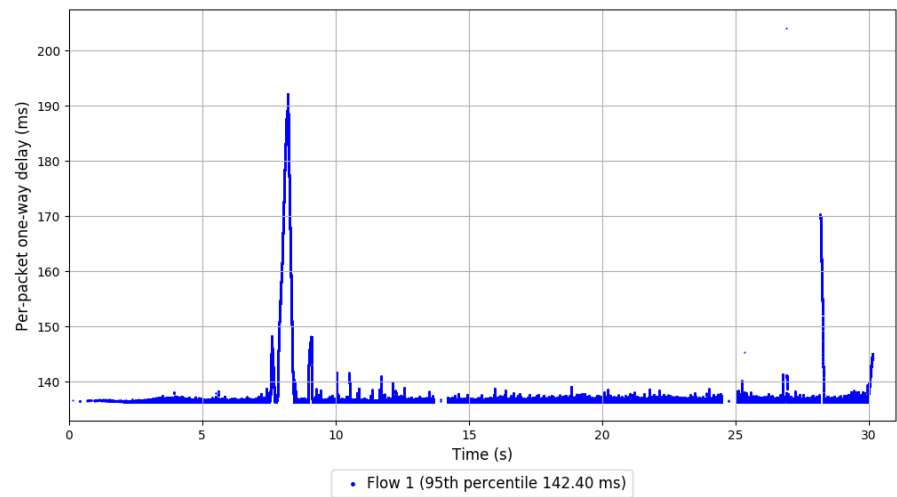
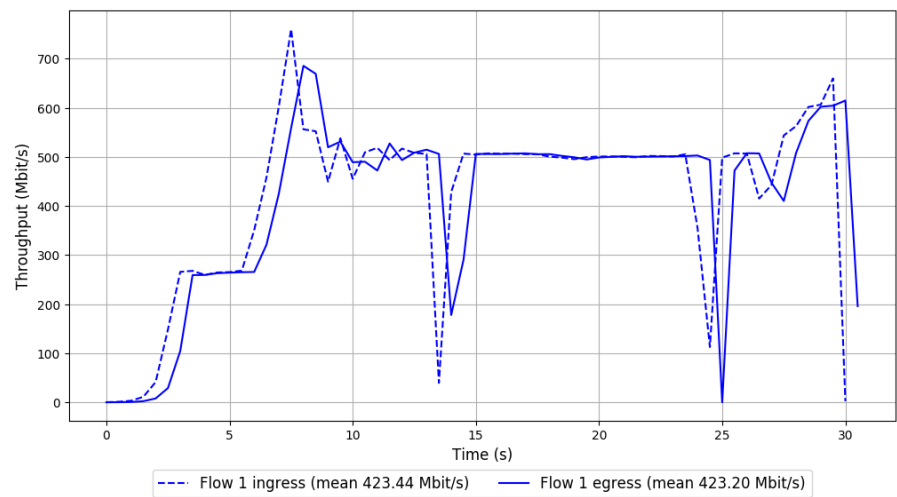
-- Flow 1:

Average throughput: 423.20 Mbit/s

95th percentile per-packet one-way delay: 142.404 ms

Loss rate: 0.07%

Run 3: Report of TCP BBR — Data Link

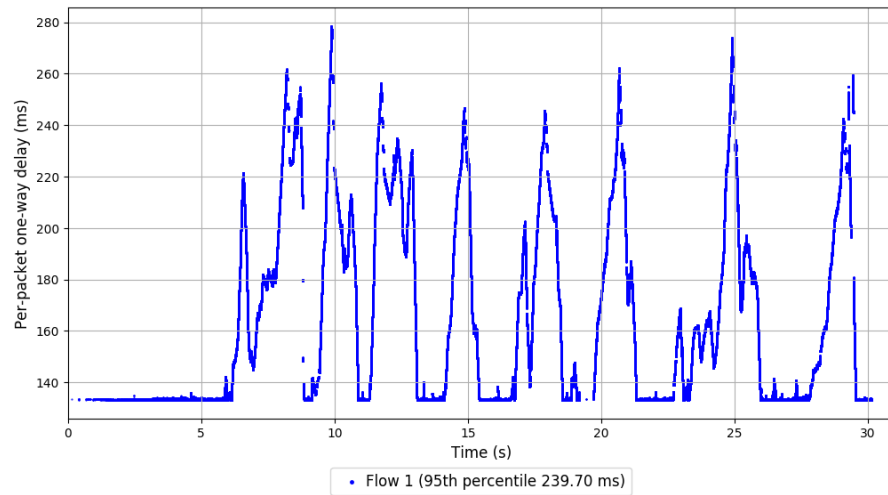
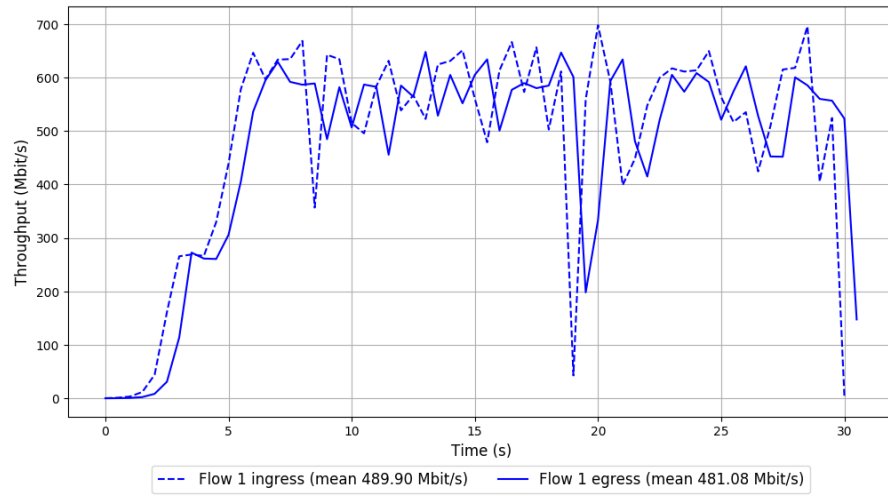


Run 4: Statistics of TCP BBR

Start at: 2019-01-17 18:16:40  
End at: 2019-01-17 18:17:10  
Local clock offset: -0.524 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2019-01-17 19:38:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 481.08 Mbit/s  
95th percentile per-packet one-way delay: 239.697 ms  
Loss rate: 1.80%  
-- Flow 1:  
Average throughput: 481.08 Mbit/s  
95th percentile per-packet one-way delay: 239.697 ms  
Loss rate: 1.80%

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



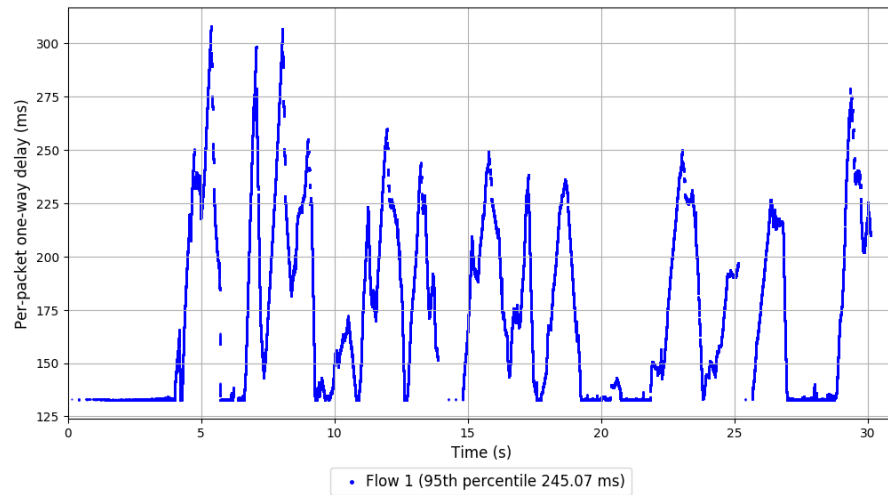
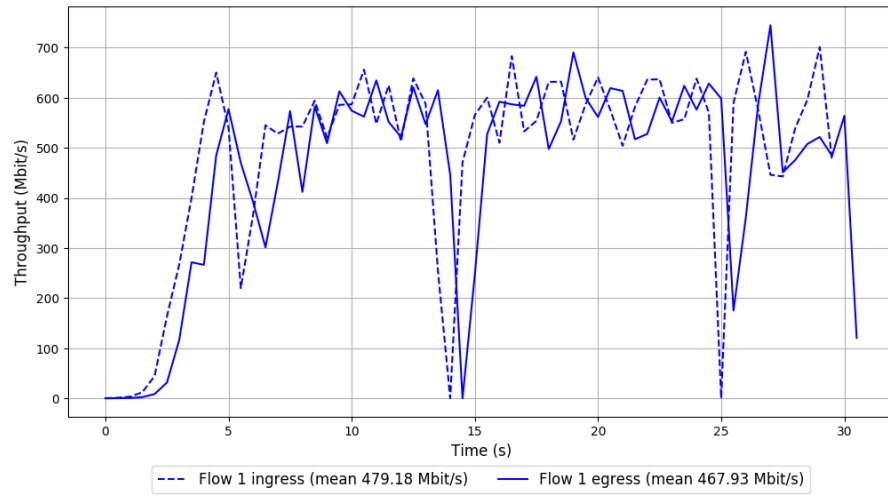


Run 5: Statistics of TCP BBR

Start at: 2019-01-17 18:49:41  
End at: 2019-01-17 18:50:11  
Local clock offset: -0.026 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-01-17 19:38:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 467.93 Mbit/s  
95th percentile per-packet one-way delay: 245.068 ms  
Loss rate: 2.35%  
-- Flow 1:  
Average throughput: 467.93 Mbit/s  
95th percentile per-packet one-way delay: 245.068 ms  
Loss rate: 2.35%

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



Run 1: Statistics of Copa

Start at: 2019-01-17 16:49:38

End at: 2019-01-17 16:50:08

Local clock offset: -0.565 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-01-17 19:38:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 291.39 Mbit/s

95th percentile per-packet one-way delay: 156.368 ms

Loss rate: 0.00%

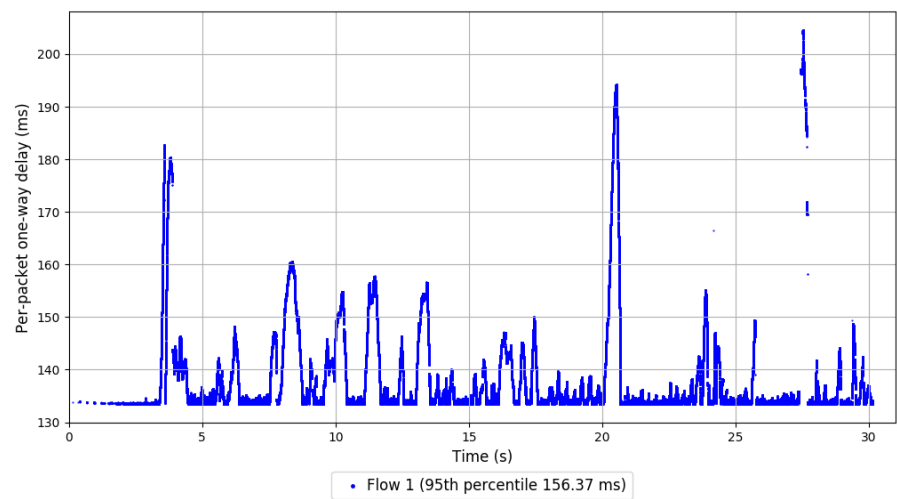
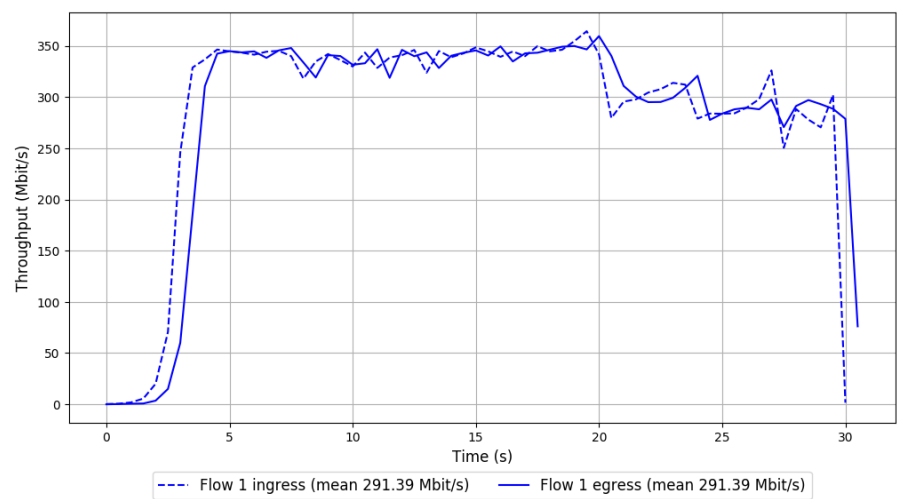
-- Flow 1:

Average throughput: 291.39 Mbit/s

95th percentile per-packet one-way delay: 156.368 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

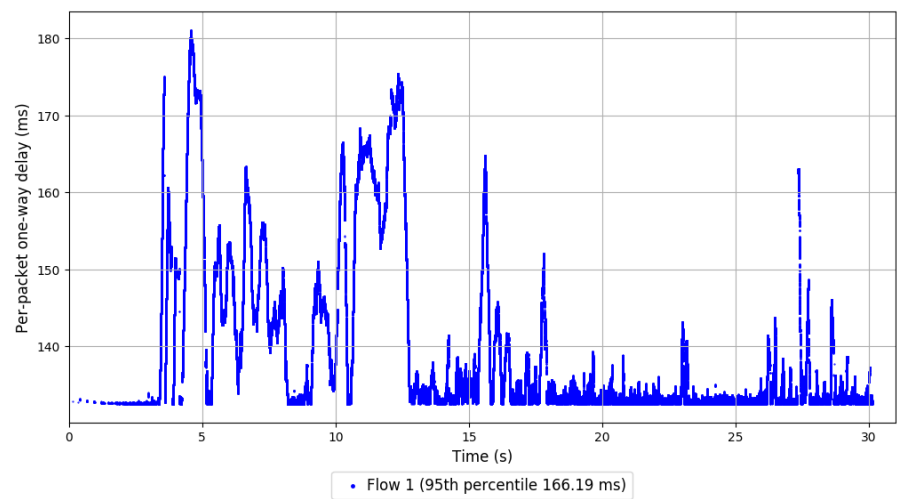
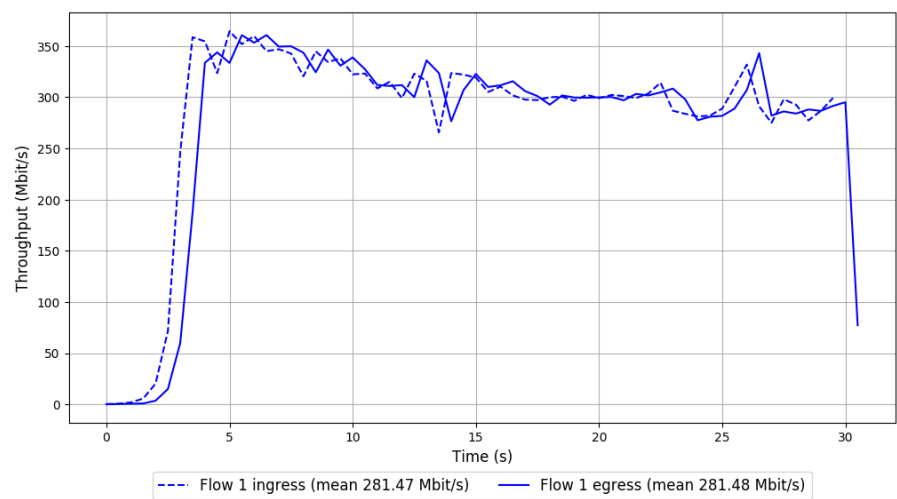


Run 2: Statistics of Copa

Start at: 2019-01-17 17:23:18  
End at: 2019-01-17 17:23:48  
Local clock offset: 0.066 ms  
Remote clock offset: -0.453 ms

# Below is generated by plot.py at 2019-01-17 19:38:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 281.48 Mbit/s  
95th percentile per-packet one-way delay: 166.191 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 281.48 Mbit/s  
95th percentile per-packet one-way delay: 166.191 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

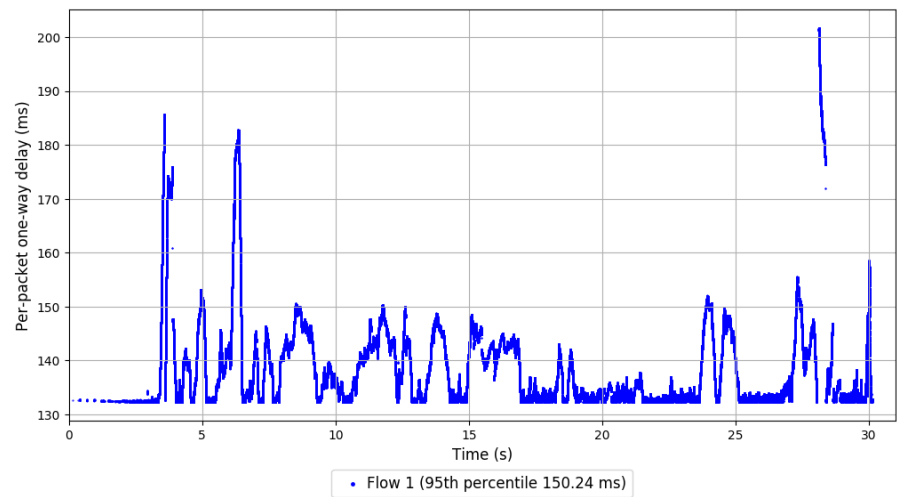
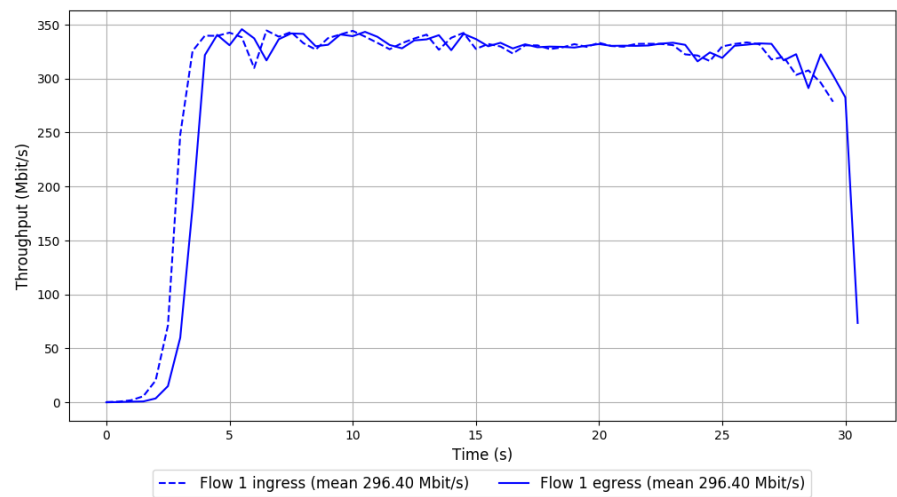


Run 3: Statistics of Copa

Start at: 2019-01-17 17:59:20  
End at: 2019-01-17 17:59:50  
Local clock offset: 0.336 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-01-17 19:39:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 296.40 Mbit/s  
95th percentile per-packet one-way delay: 150.236 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 296.40 Mbit/s  
95th percentile per-packet one-way delay: 150.236 ms  
Loss rate: 0.00%

Run 3: Report of Copa — Data Link



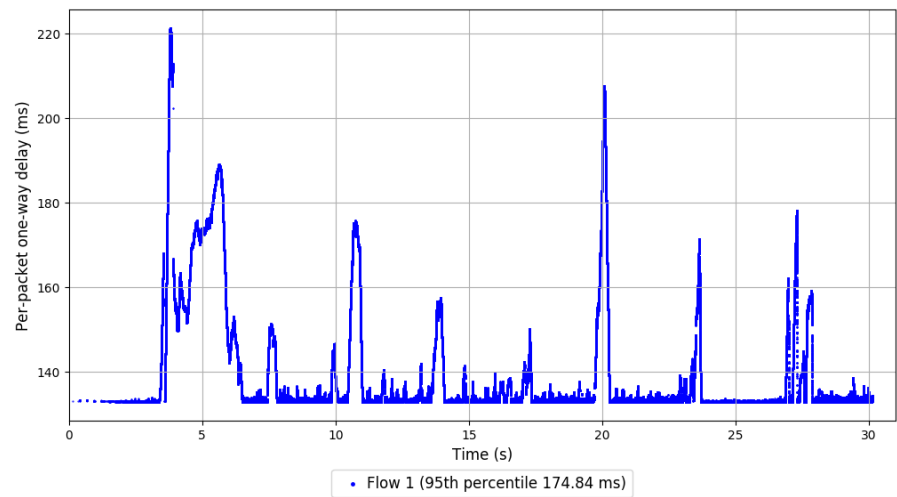
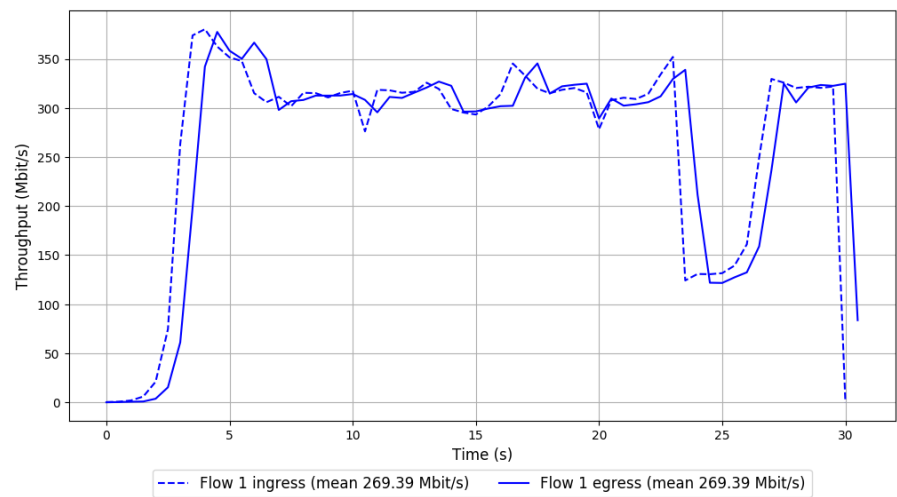


Run 4: Statistics of Copa

Start at: 2019-01-17 18:31:19  
End at: 2019-01-17 18:31:49  
Local clock offset: -0.291 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-01-17 19:46:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 269.39 Mbit/s  
95th percentile per-packet one-way delay: 174.845 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 269.39 Mbit/s  
95th percentile per-packet one-way delay: 174.845 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

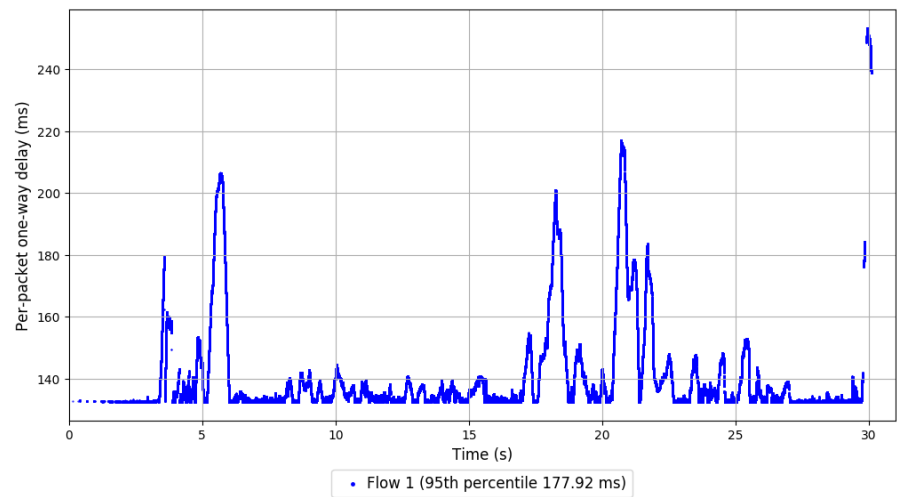
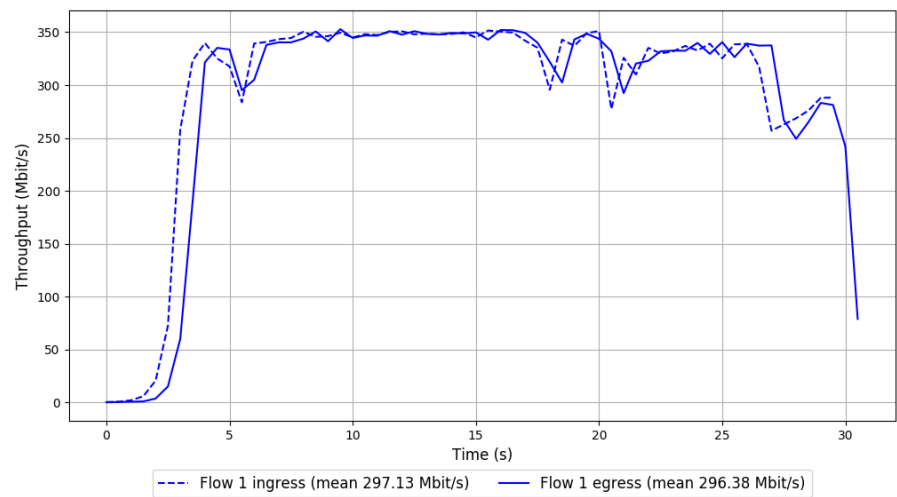


Run 5: Statistics of Copa

Start at: 2019-01-17 19:04:47  
End at: 2019-01-17 19:05:17  
Local clock offset: 0.111 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-01-17 19:47:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 296.38 Mbit/s  
95th percentile per-packet one-way delay: 177.923 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 296.38 Mbit/s  
95th percentile per-packet one-way delay: 177.923 ms  
Loss rate: 0.25%

Run 5: Report of Copa — Data Link

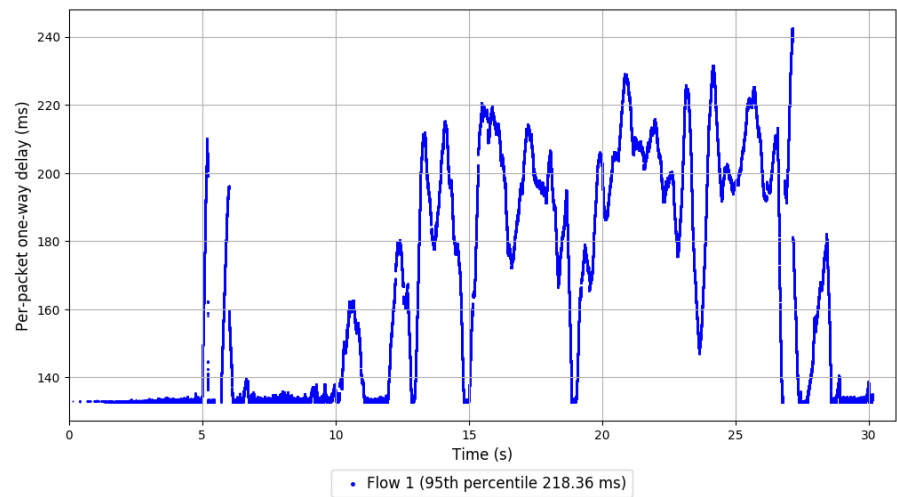
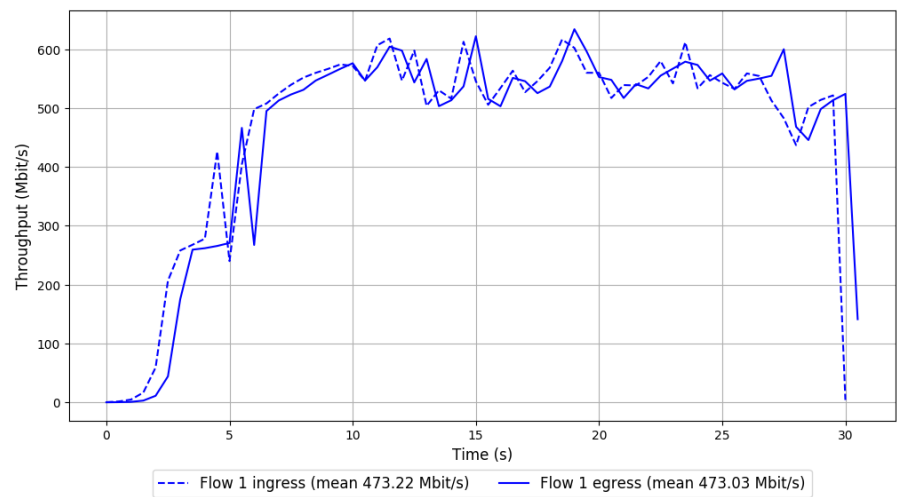


Run 1: Statistics of TCP Cubic

Start at: 2019-01-17 16:45:07  
End at: 2019-01-17 16:45:37  
Local clock offset: -0.121 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-17 19:47:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 473.03 Mbit/s  
95th percentile per-packet one-way delay: 218.364 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 473.03 Mbit/s  
95th percentile per-packet one-way delay: 218.364 ms  
Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-17 17:18:25

End at: 2019-01-17 17:18:55

Local clock offset: 0.112 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-01-17 19:47:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 514.40 Mbit/s

95th percentile per-packet one-way delay: 196.059 ms

Loss rate: 0.10%

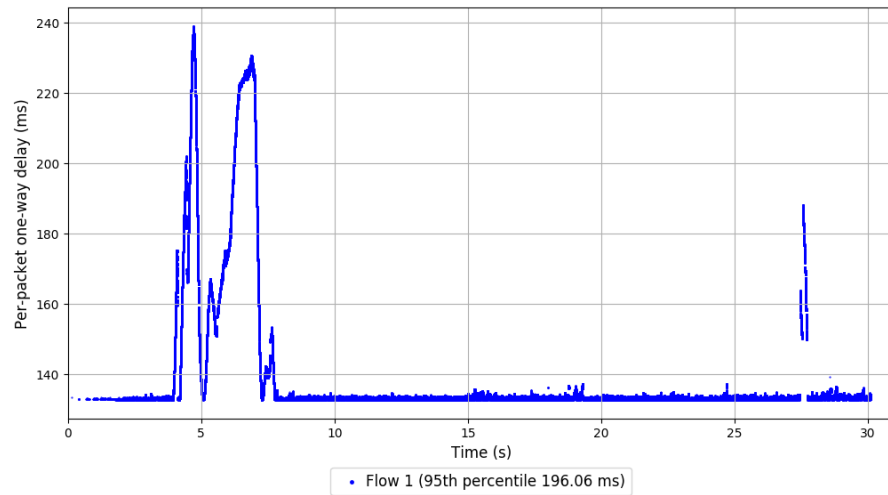
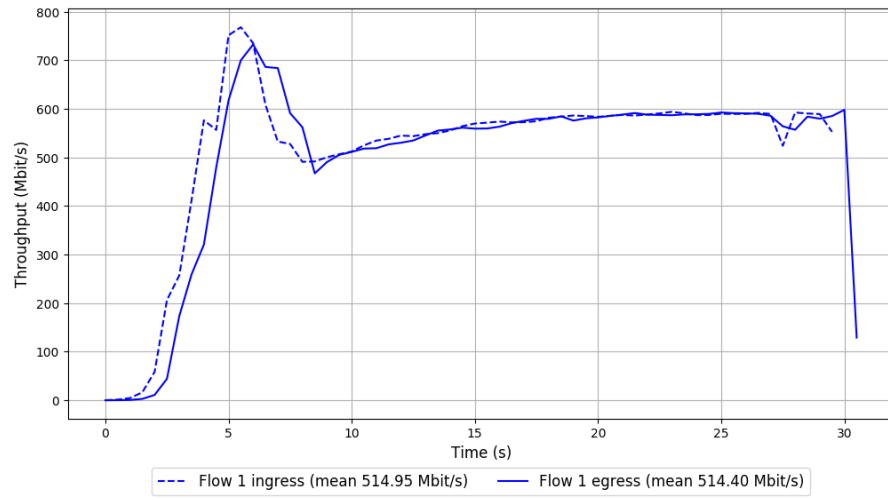
-- Flow 1:

Average throughput: 514.40 Mbit/s

95th percentile per-packet one-way delay: 196.059 ms

Loss rate: 0.10%

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



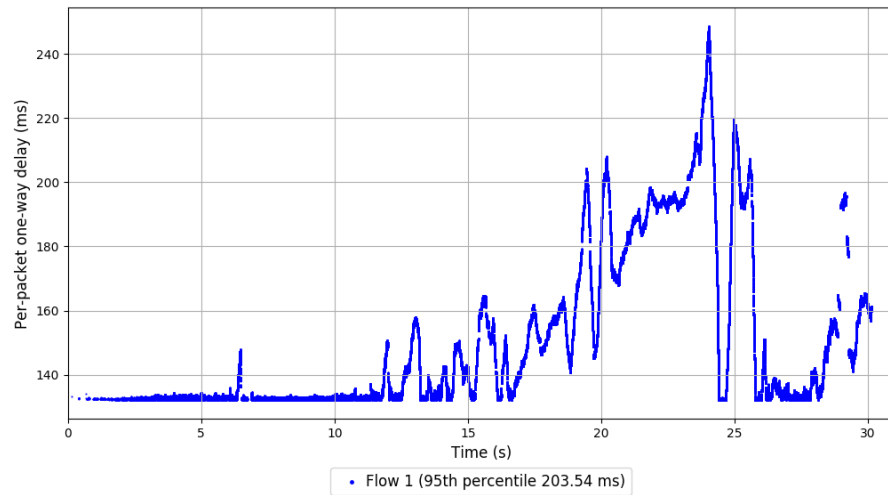
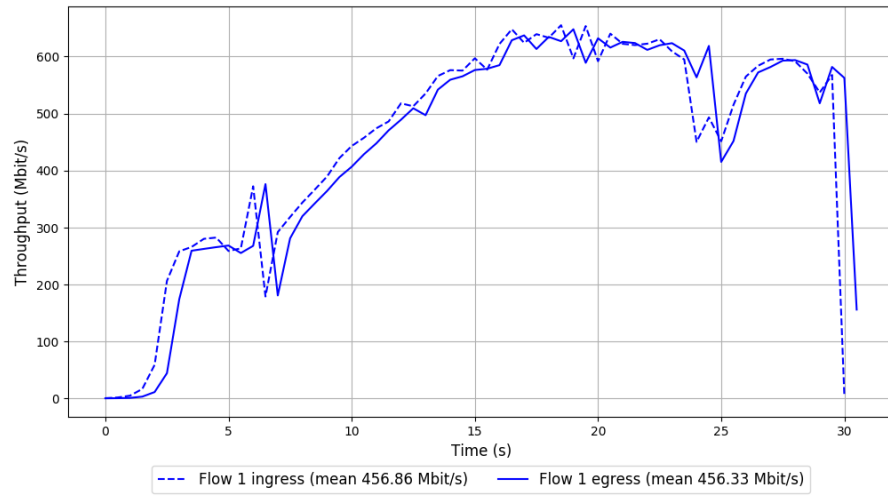


Run 3: Statistics of TCP Cubic

Start at: 2019-01-17 17:54:41  
End at: 2019-01-17 17:55:11  
Local clock offset: 0.263 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-01-17 19:47:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 456.33 Mbit/s  
95th percentile per-packet one-way delay: 203.536 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 456.33 Mbit/s  
95th percentile per-packet one-way delay: 203.536 ms  
Loss rate: 0.12%

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

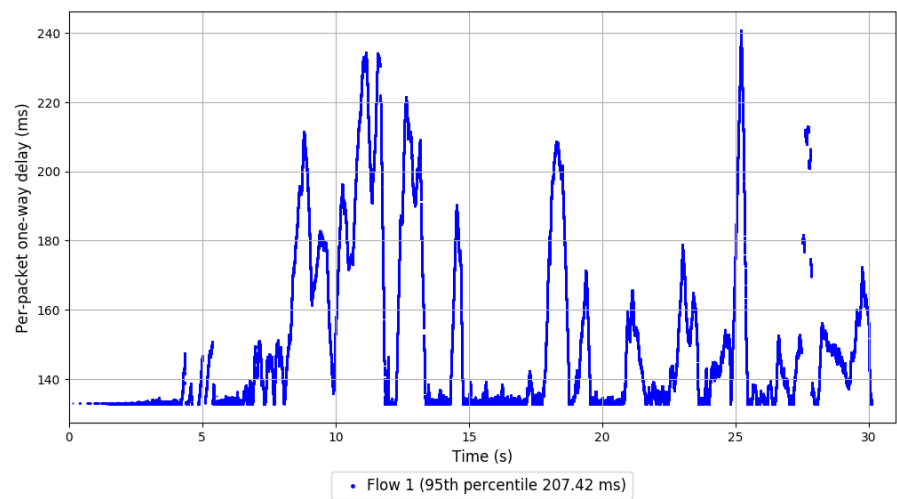
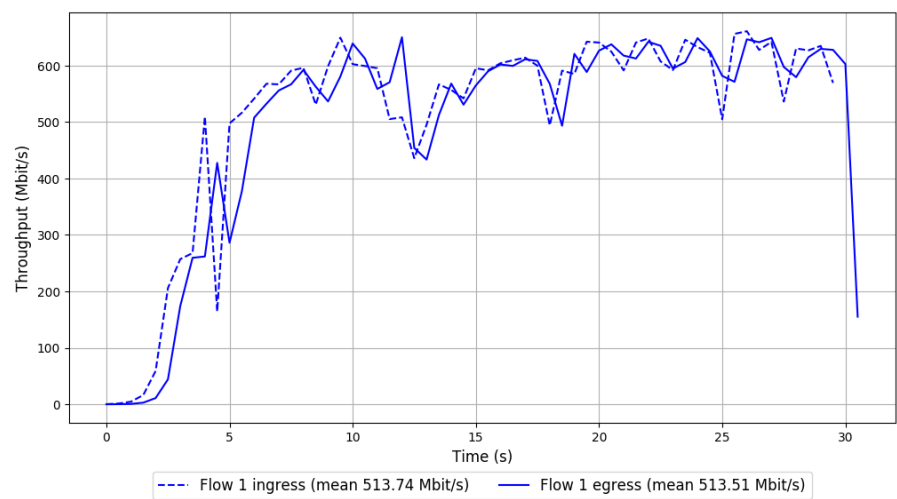


Run 4: Statistics of TCP Cubic

Start at: 2019-01-17 18:26:50  
End at: 2019-01-17 18:27:20  
Local clock offset: -0.028 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-01-17 19:48:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 513.51 Mbit/s  
95th percentile per-packet one-way delay: 207.421 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 513.51 Mbit/s  
95th percentile per-packet one-way delay: 207.421 ms  
Loss rate: 0.04%

Run 4: Report of TCP Cubic — Data Link

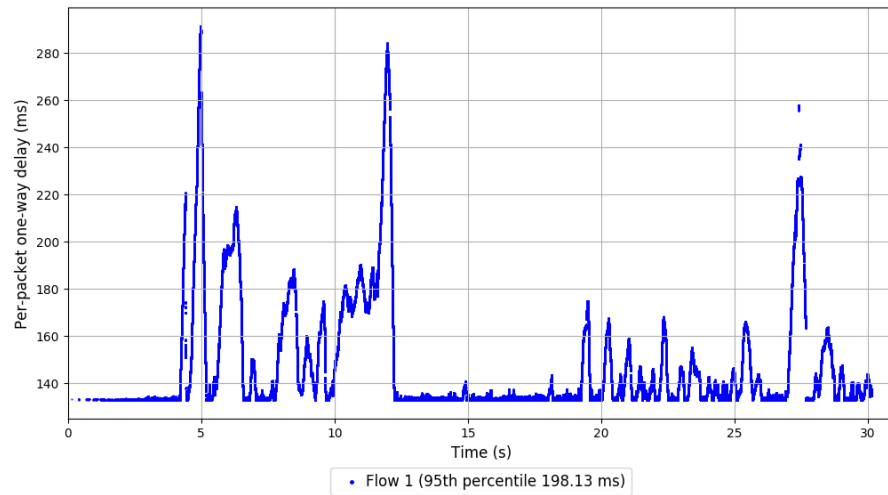
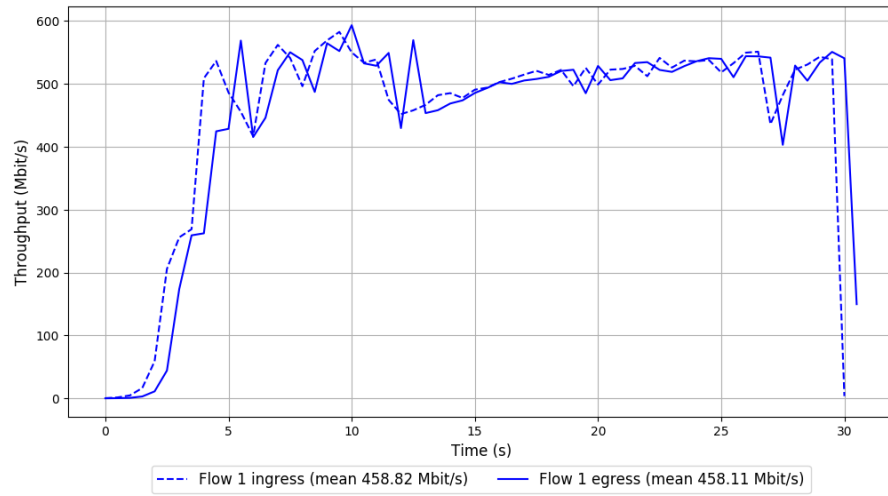


Run 5: Statistics of TCP Cubic

Start at: 2019-01-17 19:00:14  
End at: 2019-01-17 19:00:44  
Local clock offset: -0.419 ms  
Remote clock offset: -0.427 ms

# Below is generated by plot.py at 2019-01-17 19:48:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 458.11 Mbit/s  
95th percentile per-packet one-way delay: 198.130 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 458.11 Mbit/s  
95th percentile per-packet one-way delay: 198.130 ms  
Loss rate: 0.15%

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

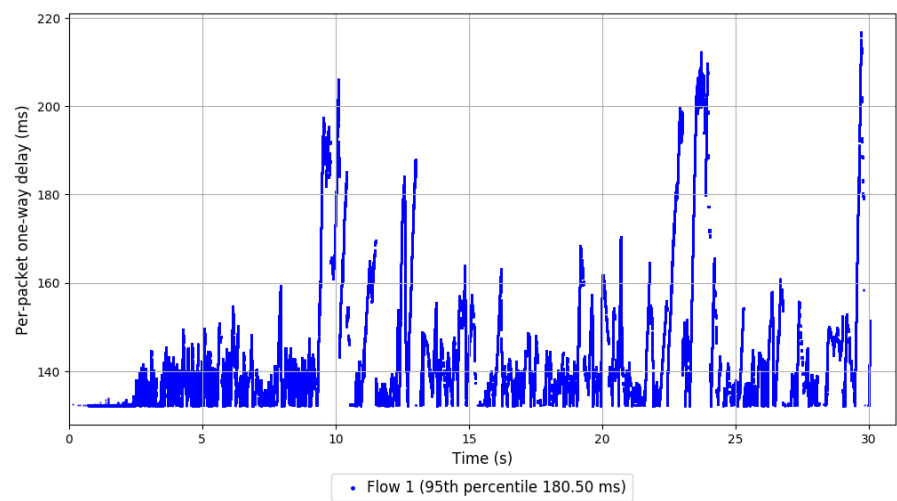
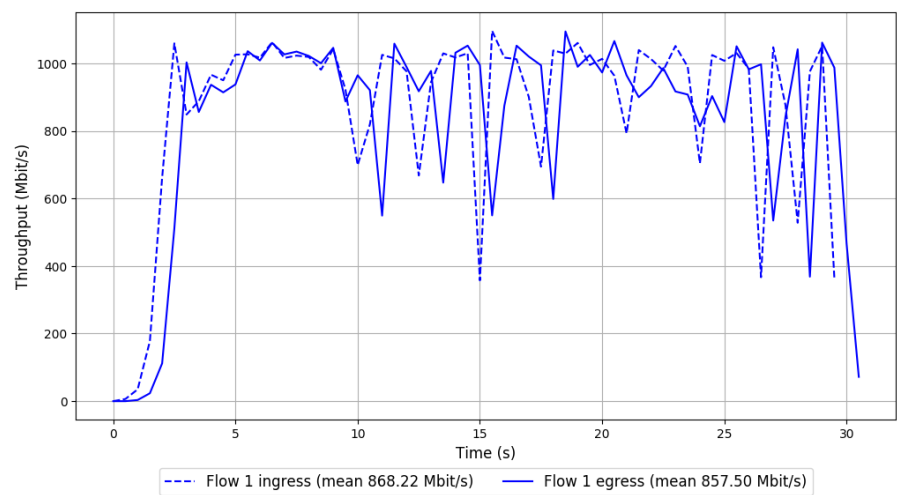


Run 1: Statistics of FillP

Start at: 2019-01-17 17:00:57  
End at: 2019-01-17 17:01:27  
Local clock offset: 0.218 ms  
Remote clock offset: -0.438 ms

# Below is generated by plot.py at 2019-01-17 19:57:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 857.50 Mbit/s  
95th percentile per-packet one-way delay: 180.496 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 857.50 Mbit/s  
95th percentile per-packet one-way delay: 180.496 ms  
Loss rate: 1.23%

Run 1: Report of FillP — Data Link



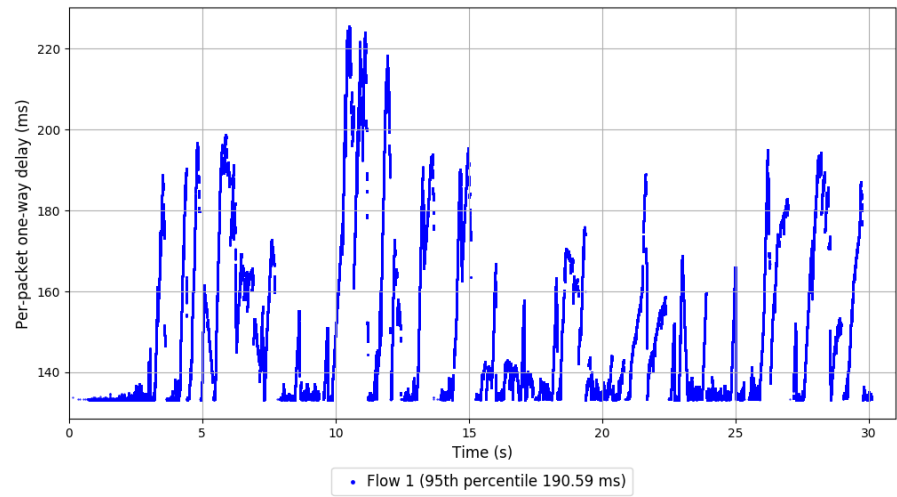
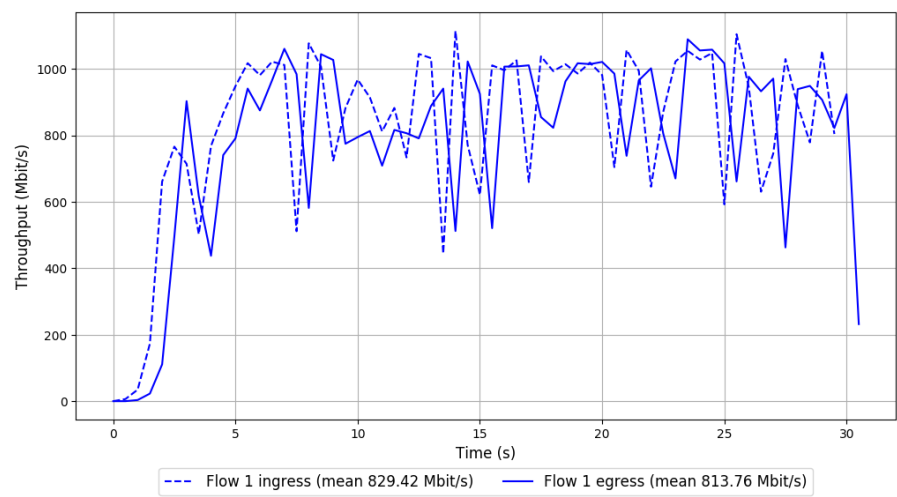


Run 2: Statistics of FillP

Start at: 2019-01-17 17:35:37  
End at: 2019-01-17 17:36:07  
Local clock offset: -0.287 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-01-17 20:04:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 813.76 Mbit/s  
95th percentile per-packet one-way delay: 190.587 ms  
Loss rate: 1.89%  
-- Flow 1:  
Average throughput: 813.76 Mbit/s  
95th percentile per-packet one-way delay: 190.587 ms  
Loss rate: 1.89%

Run 2: Report of FillP — Data Link

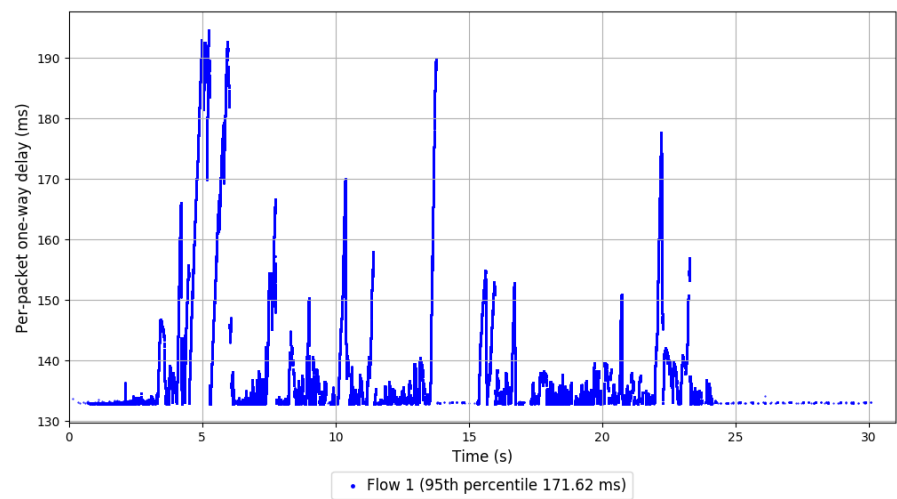
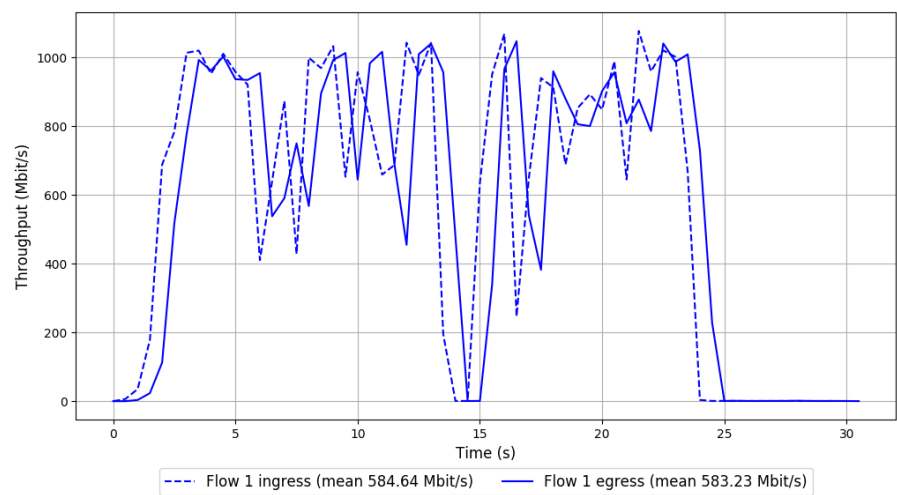


Run 3: Statistics of FillP

Start at: 2019-01-17 18:10:19  
End at: 2019-01-17 18:10:49  
Local clock offset: -0.125 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-01-17 20:04:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 583.23 Mbit/s  
95th percentile per-packet one-way delay: 171.618 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 583.23 Mbit/s  
95th percentile per-packet one-way delay: 171.618 ms  
Loss rate: 0.24%

Run 3: Report of FillP — Data Link

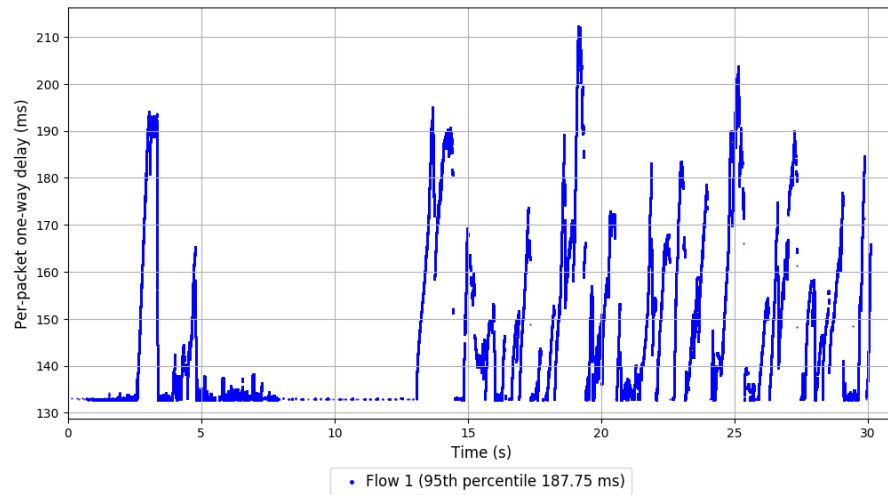
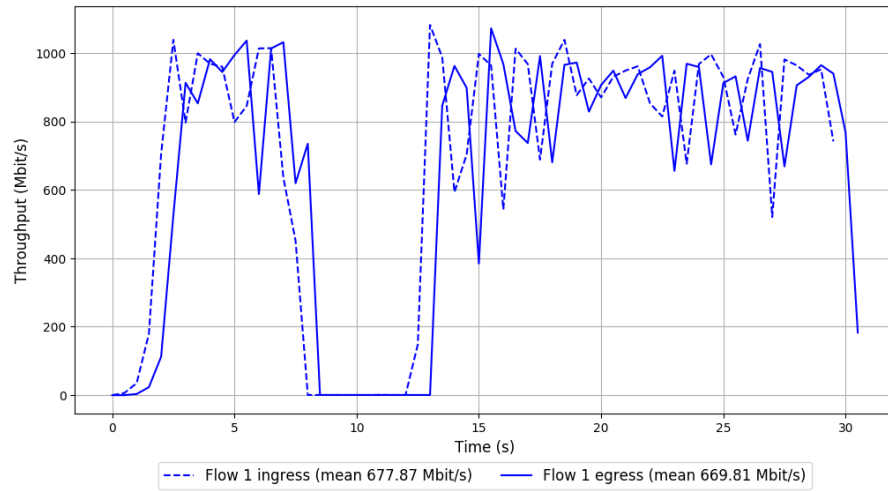


Run 4: Statistics of FillP

Start at: 2019-01-17 18:42:39  
End at: 2019-01-17 18:43:09  
Local clock offset: -0.009 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-01-17 20:04:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 669.81 Mbit/s  
95th percentile per-packet one-way delay: 187.746 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 669.81 Mbit/s  
95th percentile per-packet one-way delay: 187.746 ms  
Loss rate: 1.19%

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



Run 5: Statistics of FillP

Start at: 2019-01-17 19:15:52

End at: 2019-01-17 19:16:22

Local clock offset: -0.385 ms

Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2019-01-17 20:04:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 754.79 Mbit/s

95th percentile per-packet one-way delay: 190.772 ms

Loss rate: 1.36%

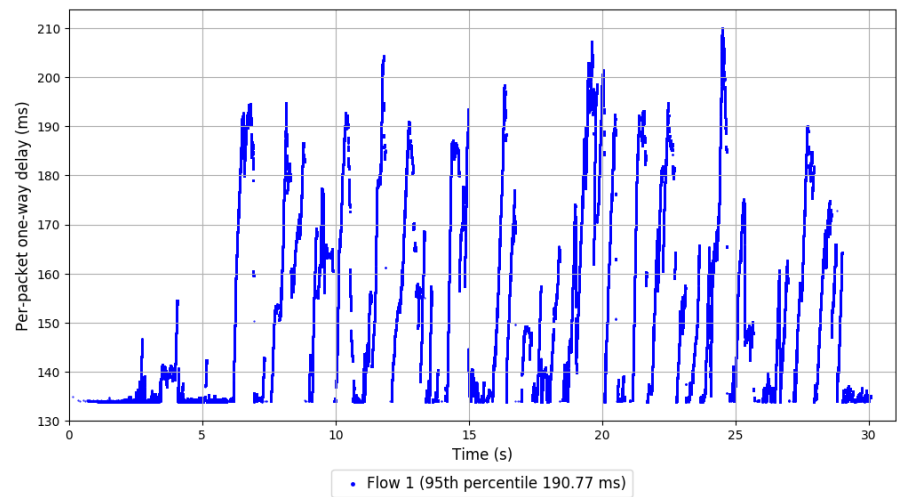
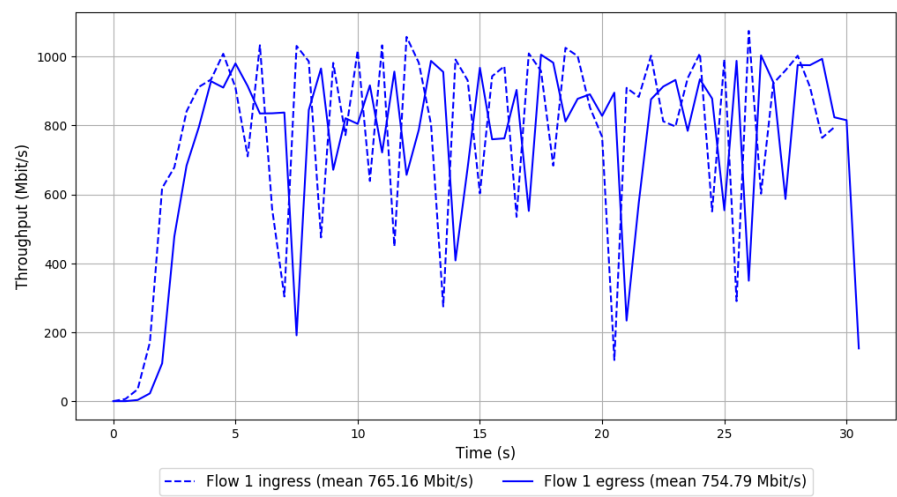
-- Flow 1:

Average throughput: 754.79 Mbit/s

95th percentile per-packet one-way delay: 190.772 ms

Loss rate: 1.36%

Run 5: Report of FillP — Data Link



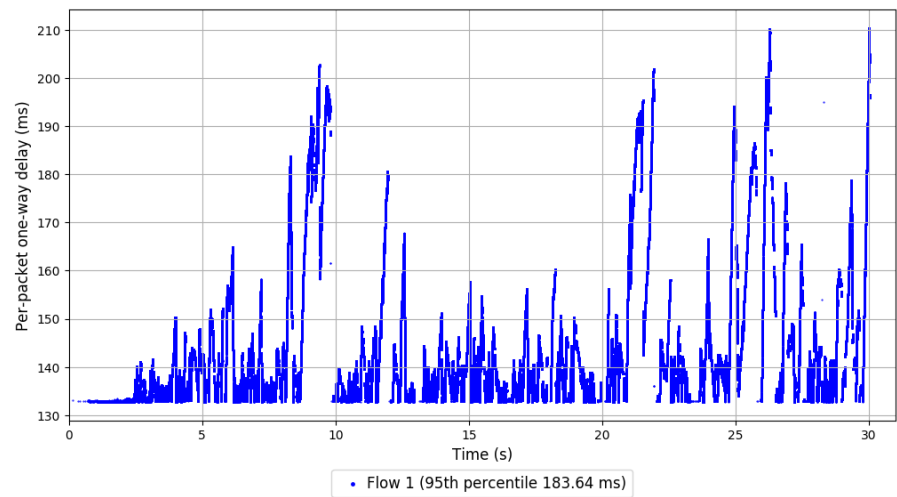
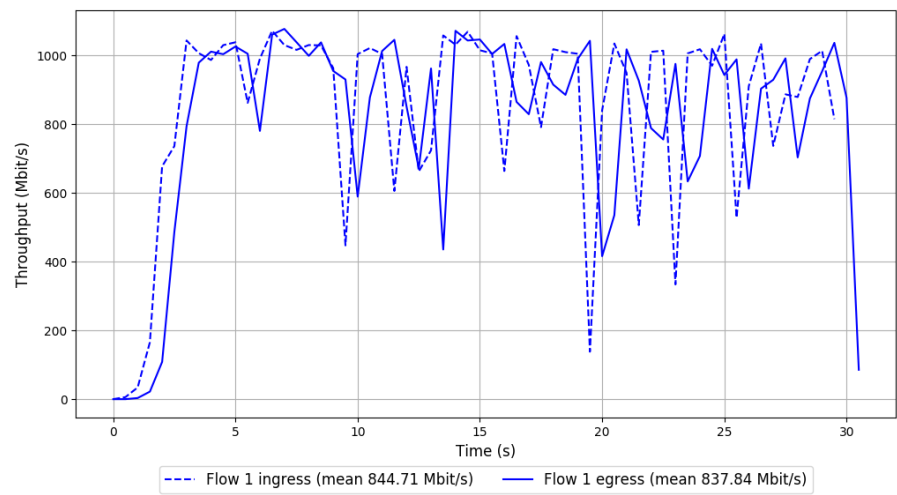


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-17 16:53:00  
End at: 2019-01-17 16:53:30  
Local clock offset: -0.142 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-01-17 20:06:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 837.84 Mbit/s  
95th percentile per-packet one-way delay: 183.641 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 837.84 Mbit/s  
95th percentile per-packet one-way delay: 183.641 ms  
Loss rate: 0.76%

Run 1: Report of FillP-Sheep — Data Link

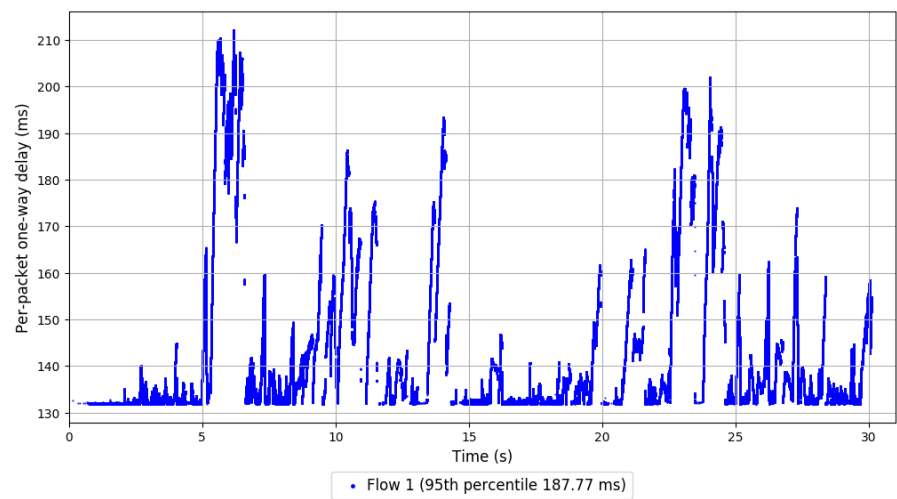
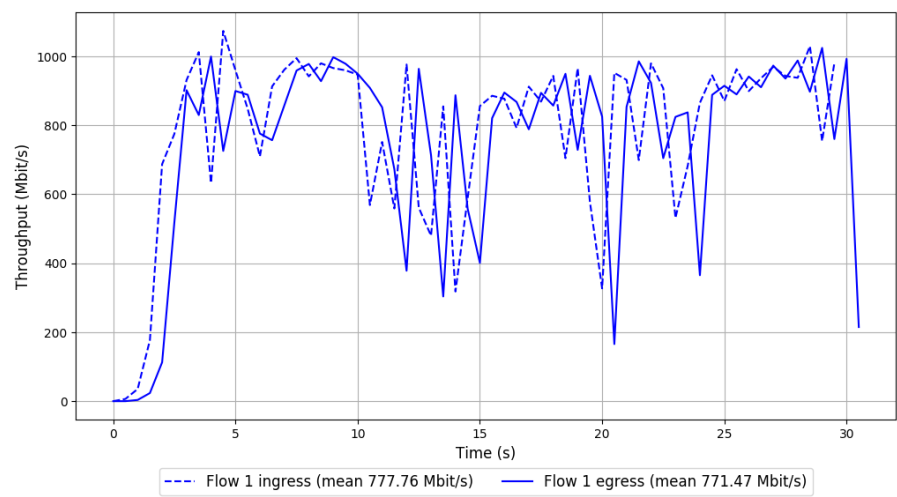


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-17 17:26:35  
End at: 2019-01-17 17:27:05  
Local clock offset: 0.347 ms  
Remote clock offset: -0.449 ms

# Below is generated by plot.py at 2019-01-17 20:06:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 771.47 Mbit/s  
95th percentile per-packet one-way delay: 187.768 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 771.47 Mbit/s  
95th percentile per-packet one-way delay: 187.768 ms  
Loss rate: 0.81%

Run 2: Report of FillP-Sheep — Data Link

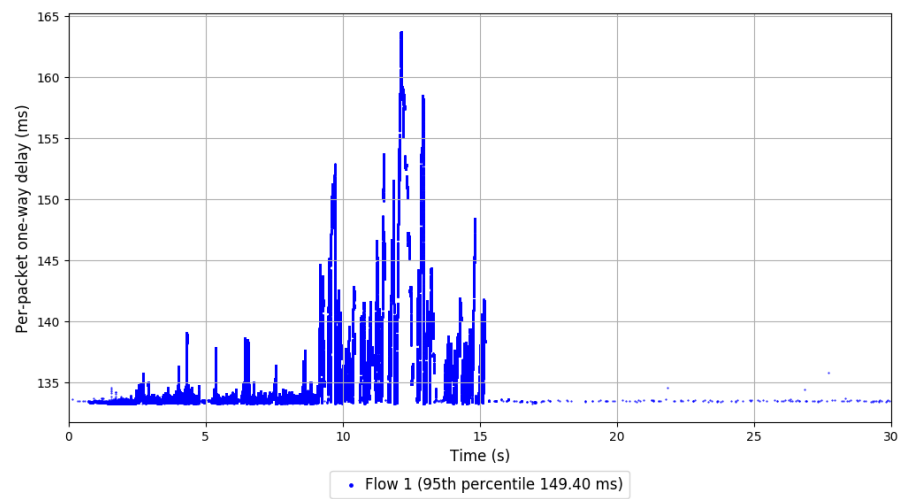
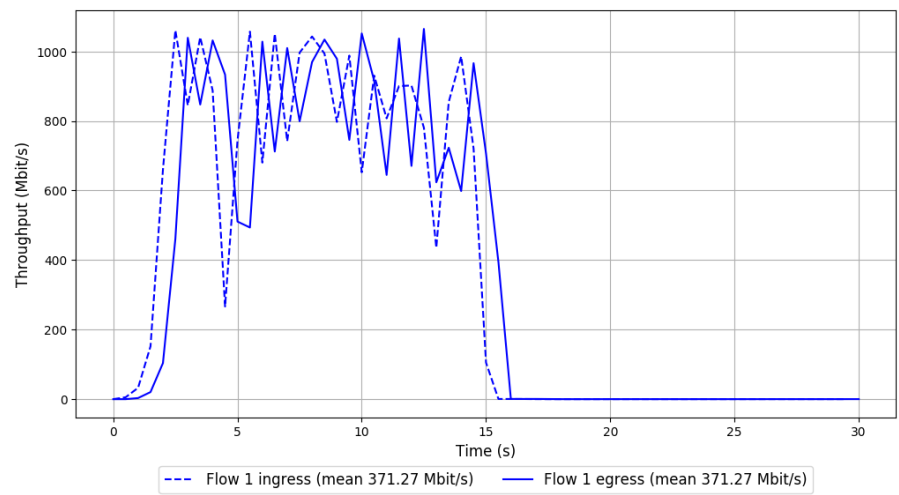


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-17 18:02:45  
End at: 2019-01-17 18:03:15  
Local clock offset: -0.516 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-01-17 20:06:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 371.27 Mbit/s  
95th percentile per-packet one-way delay: 149.403 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 371.27 Mbit/s  
95th percentile per-packet one-way delay: 149.403 ms  
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link

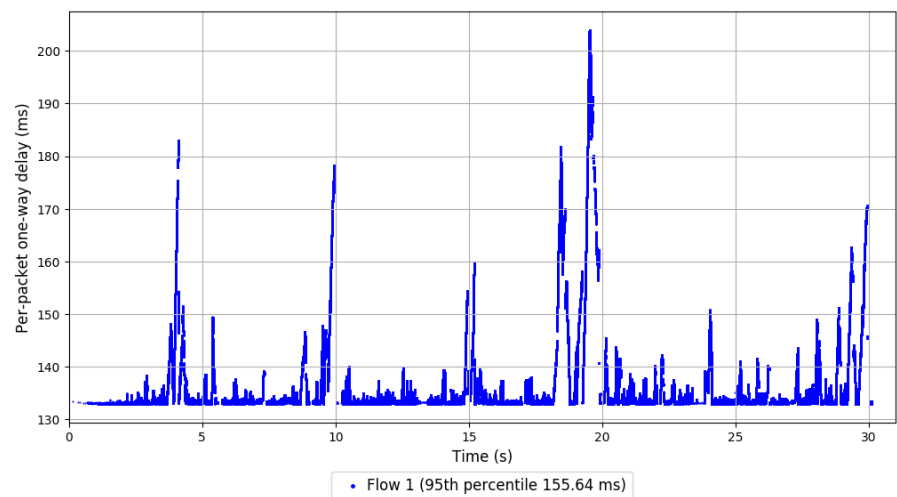
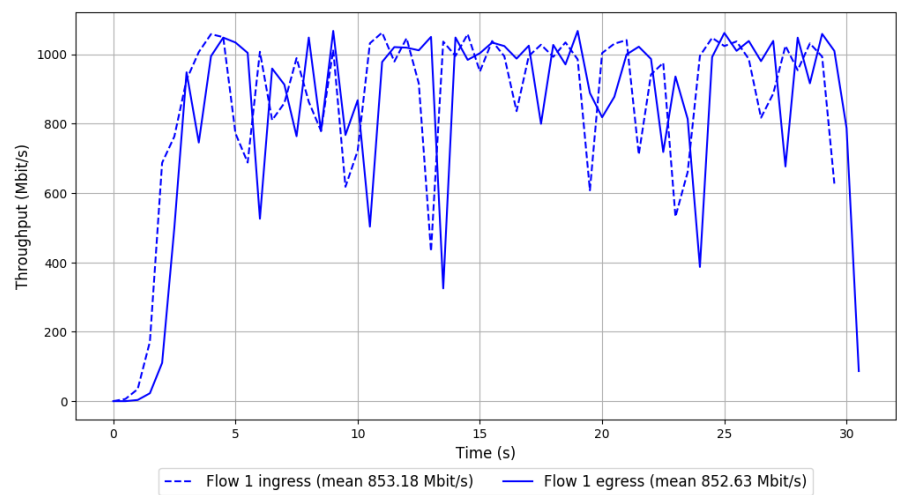


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-17 18:34:56  
End at: 2019-01-17 18:35:26  
Local clock offset: 0.389 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-01-17 20:16:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 852.63 Mbit/s  
95th percentile per-packet one-way delay: 155.643 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 852.63 Mbit/s  
95th percentile per-packet one-way delay: 155.643 ms  
Loss rate: 0.07%

Run 4: Report of FillP-Sheep — Data Link



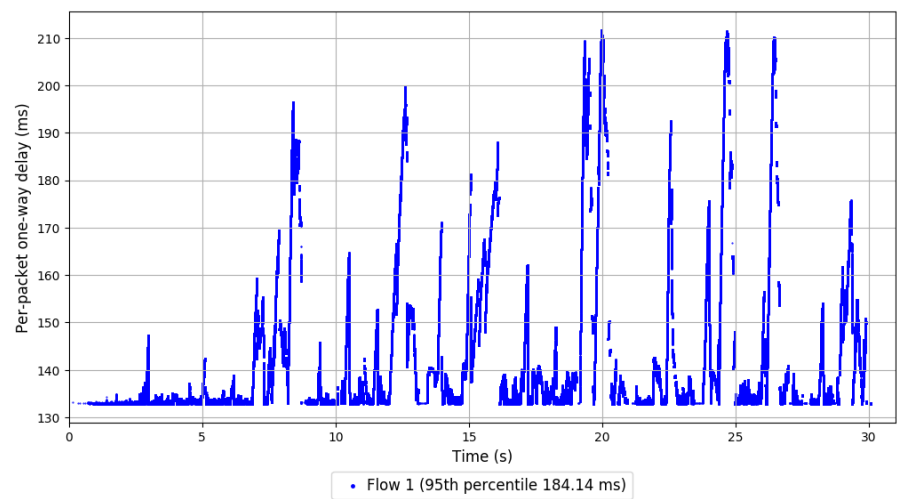
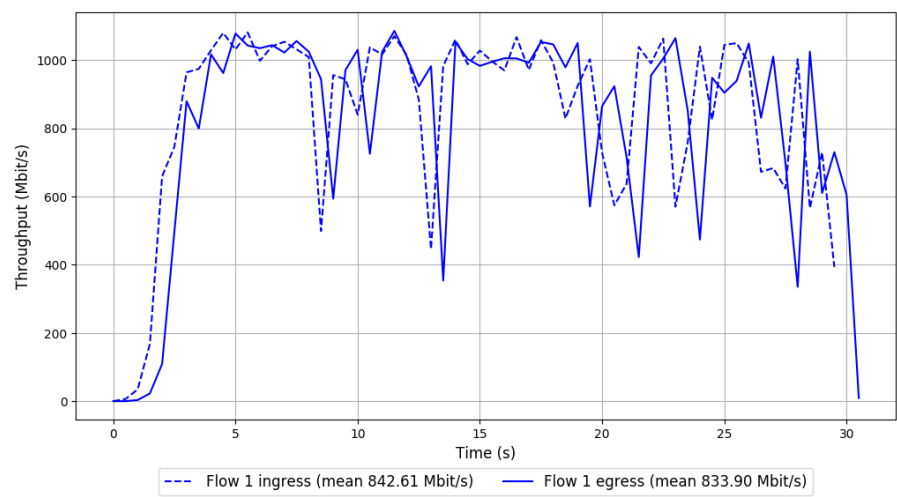


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-17 19:08:10  
End at: 2019-01-17 19:08:40  
Local clock offset: -0.139 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-01-17 20:18:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 833.90 Mbit/s  
95th percentile per-packet one-way delay: 184.140 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 833.90 Mbit/s  
95th percentile per-packet one-way delay: 184.140 ms  
Loss rate: 1.03%

Run 5: Report of FillP-Sheep — Data Link

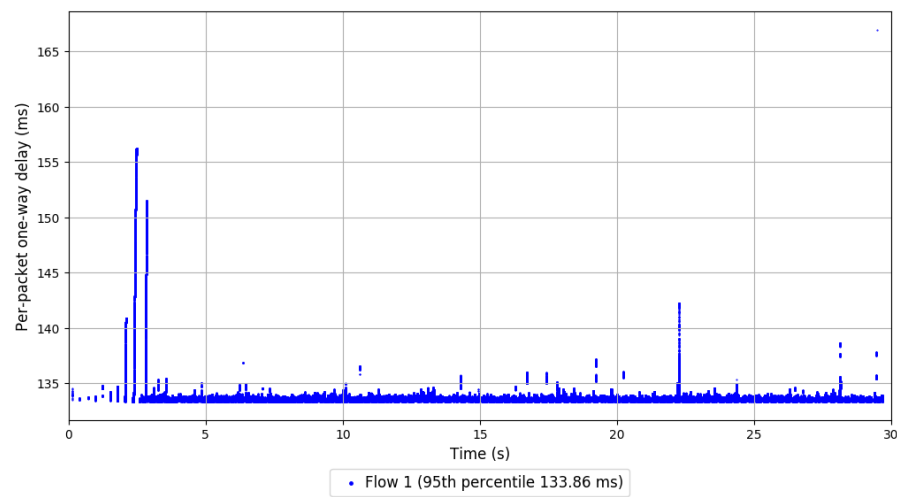
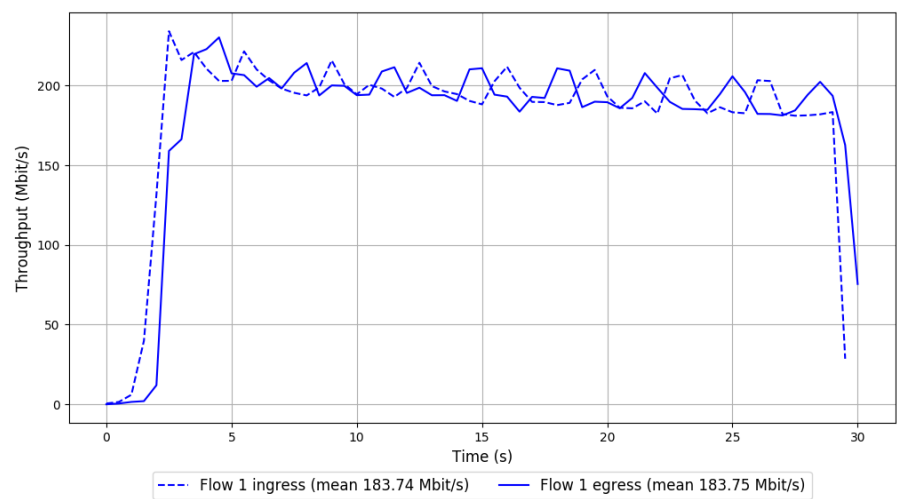


Run 1: Statistics of Indigo

Start at: 2019-01-17 16:39:29  
End at: 2019-01-17 16:39:59  
Local clock offset: -0.083 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-01-17 20:18:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 183.75 Mbit/s  
95th percentile per-packet one-way delay: 133.864 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 183.75 Mbit/s  
95th percentile per-packet one-way delay: 133.864 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

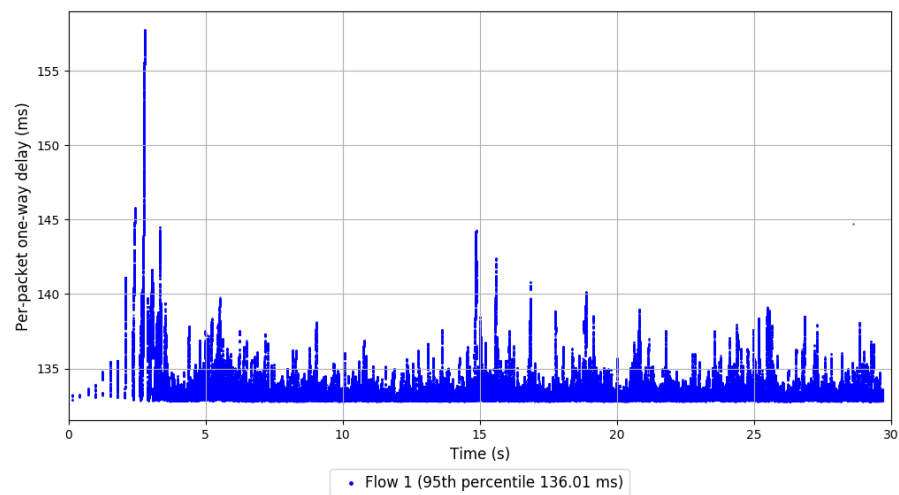
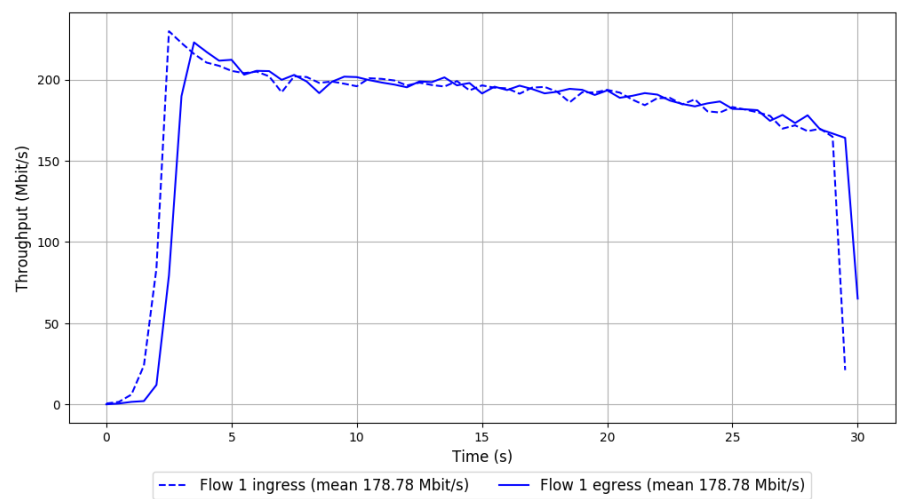


Run 2: Statistics of Indigo

Start at: 2019-01-17 17:11:37  
End at: 2019-01-17 17:12:07  
Local clock offset: -0.094 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-01-17 20:18:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 178.78 Mbit/s  
95th percentile per-packet one-way delay: 136.013 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 178.78 Mbit/s  
95th percentile per-packet one-way delay: 136.013 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

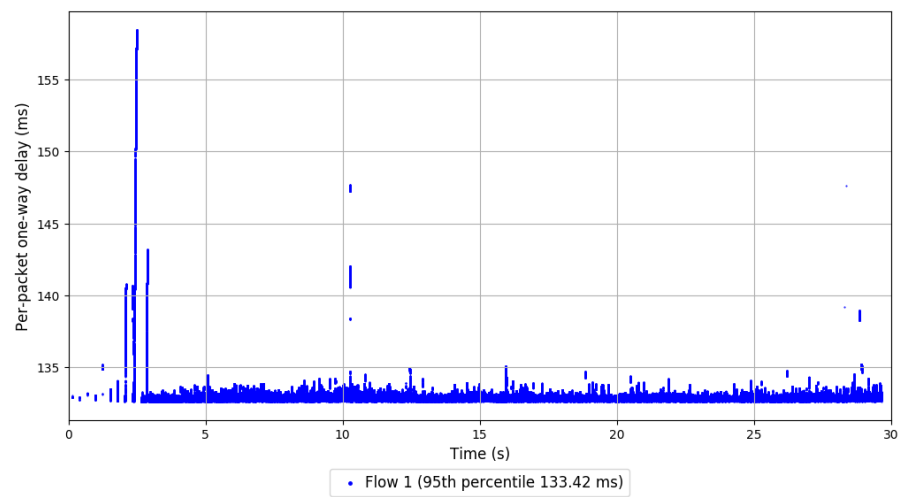
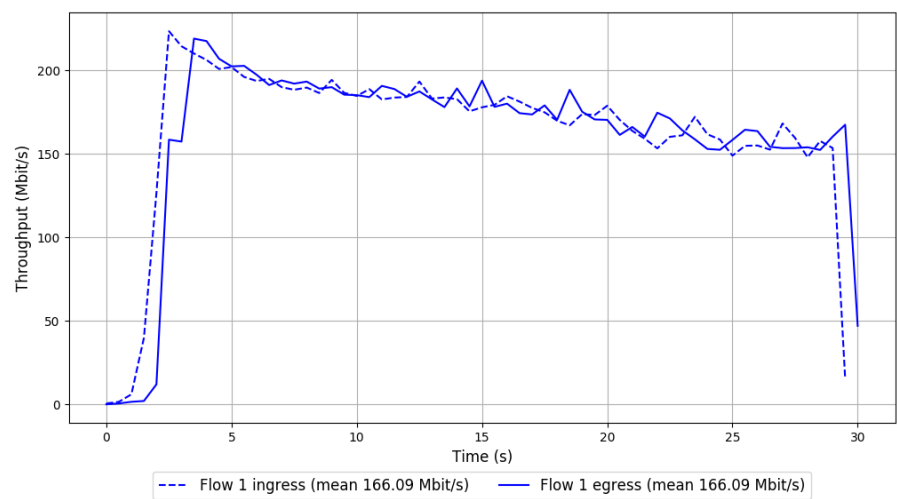


Run 3: Statistics of Indigo

Start at: 2019-01-17 17:47:52  
End at: 2019-01-17 17:48:22  
Local clock offset: 0.084 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-01-17 20:18:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 166.09 Mbit/s  
95th percentile per-packet one-way delay: 133.423 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 166.09 Mbit/s  
95th percentile per-packet one-way delay: 133.423 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



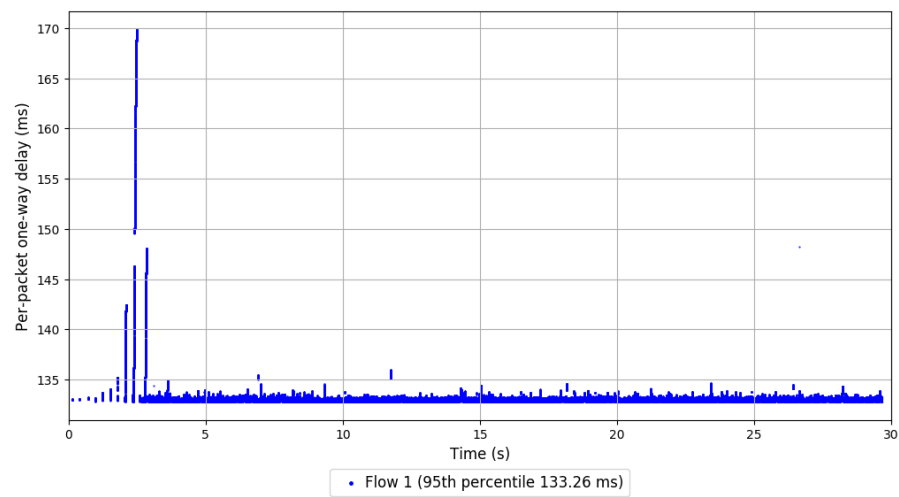
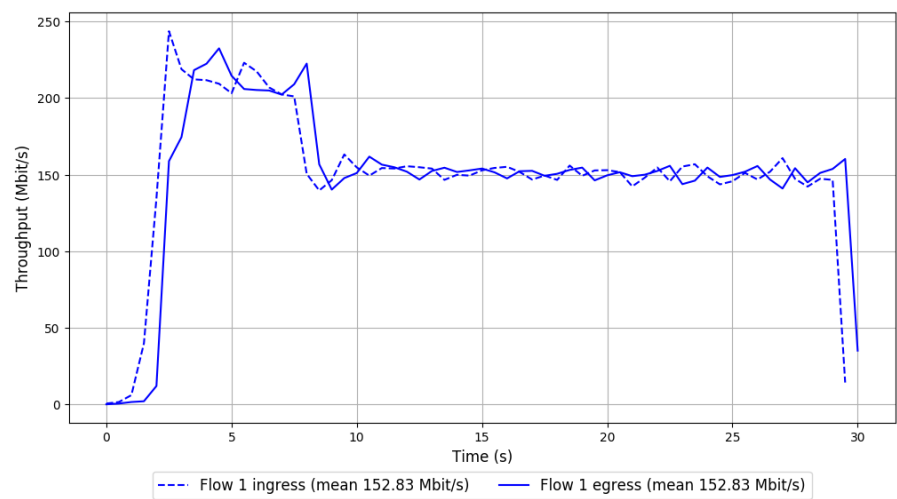


Run 4: Statistics of Indigo

Start at: 2019-01-17 18:20:44  
End at: 2019-01-17 18:21:14  
Local clock offset: -0.056 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-01-17 20:18:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 152.83 Mbit/s  
95th percentile per-packet one-way delay: 133.265 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 152.83 Mbit/s  
95th percentile per-packet one-way delay: 133.265 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-17 18:53:46

End at: 2019-01-17 18:54:16

Local clock offset: -0.101 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-01-17 20:18:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.54 Mbit/s

95th percentile per-packet one-way delay: 133.638 ms

Loss rate: 0.00%

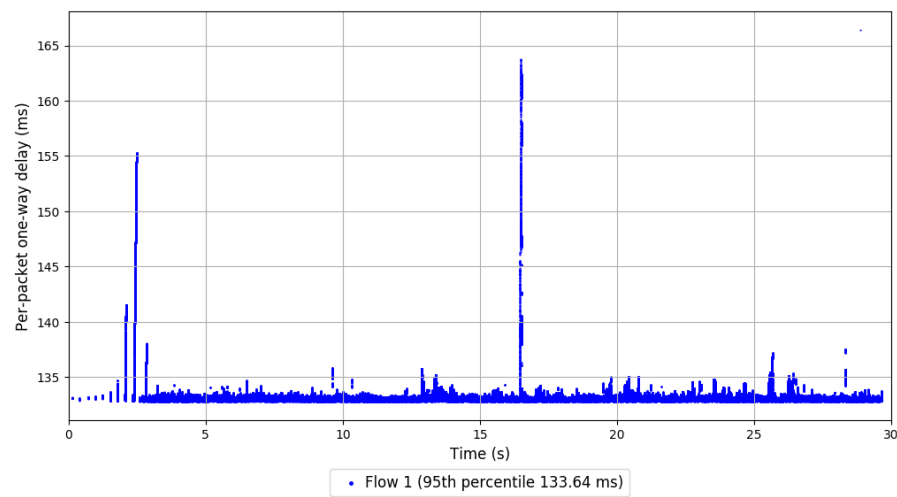
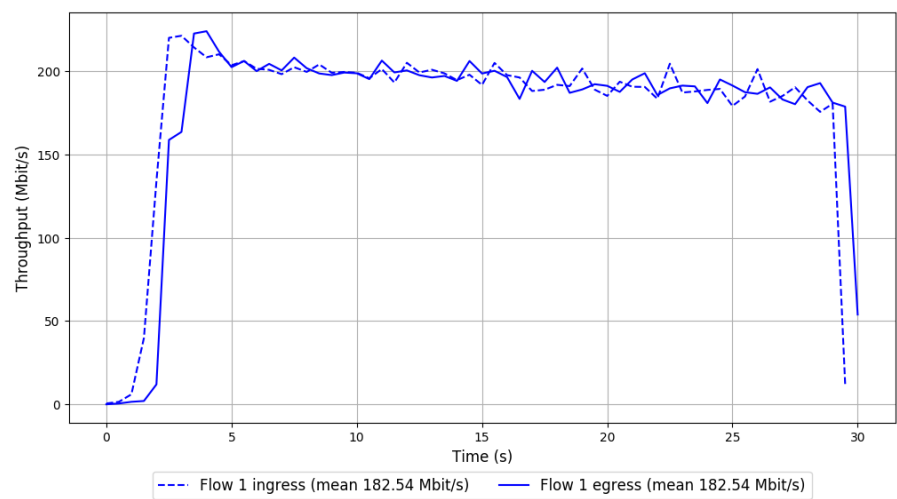
-- Flow 1:

Average throughput: 182.54 Mbit/s

95th percentile per-packet one-way delay: 133.638 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

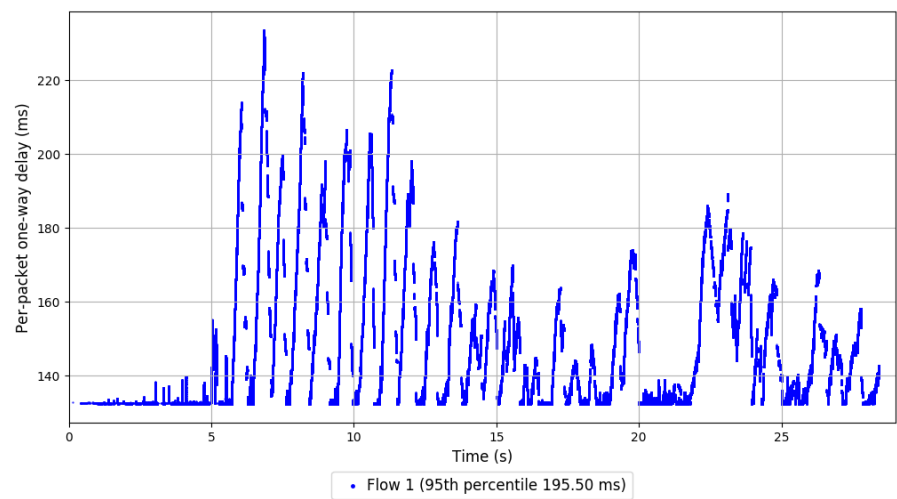
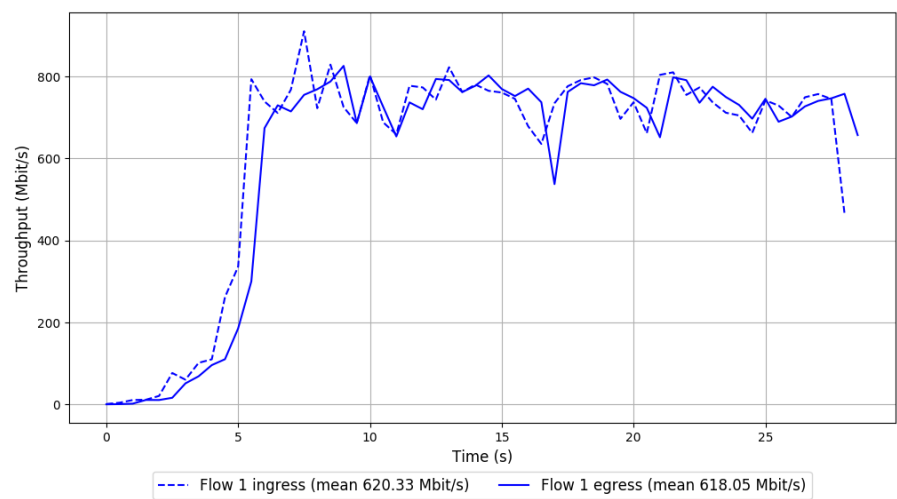


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-17 16:41:00  
End at: 2019-01-17 16:41:30  
Local clock offset: 0.02 ms  
Remote clock offset: -0.481 ms

# Below is generated by plot.py at 2019-01-17 20:18:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 618.05 Mbit/s  
95th percentile per-packet one-way delay: 195.495 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 618.05 Mbit/s  
95th percentile per-packet one-way delay: 195.495 ms  
Loss rate: 0.37%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-17 17:13:28

End at: 2019-01-17 17:13:58

Local clock offset: -0.375 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-01-17 20:18:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 540.29 Mbit/s

95th percentile per-packet one-way delay: 209.301 ms

Loss rate: 0.02%

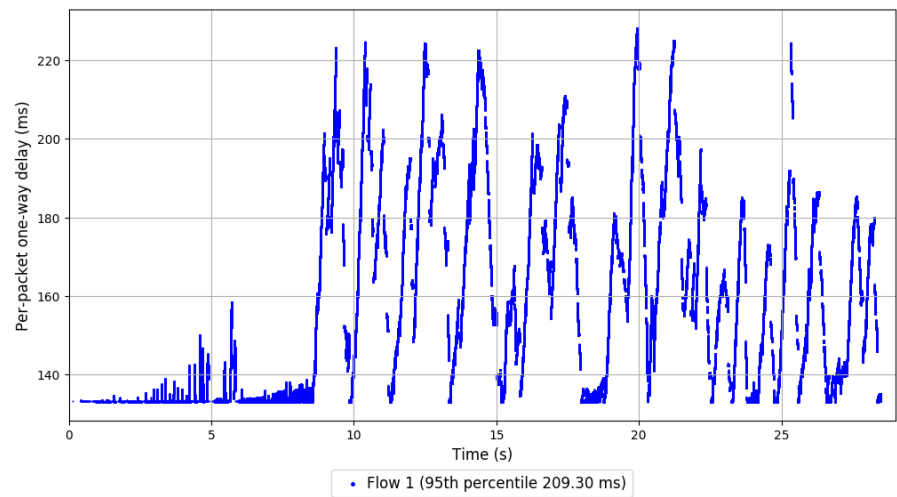
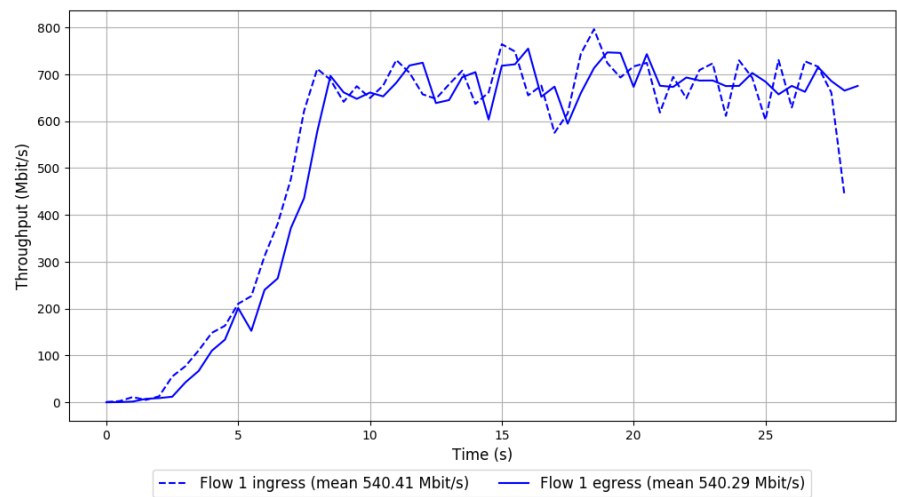
-- Flow 1:

Average throughput: 540.29 Mbit/s

95th percentile per-packet one-way delay: 209.301 ms

Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-17 17:49:30

End at: 2019-01-17 17:50:00

Local clock offset: 0.321 ms

Remote clock offset: 0.077 ms

# Below is generated by plot.py at 2019-01-17 20:19:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 528.83 Mbit/s

95th percentile per-packet one-way delay: 203.630 ms

Loss rate: 0.15%

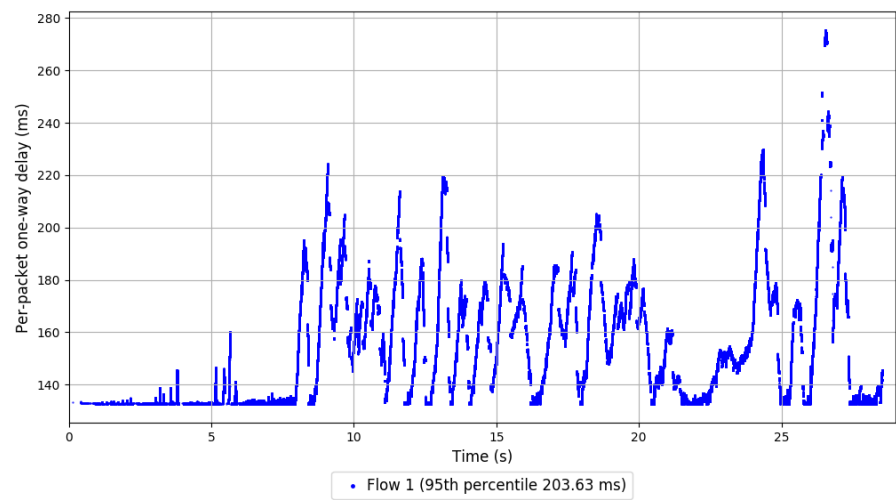
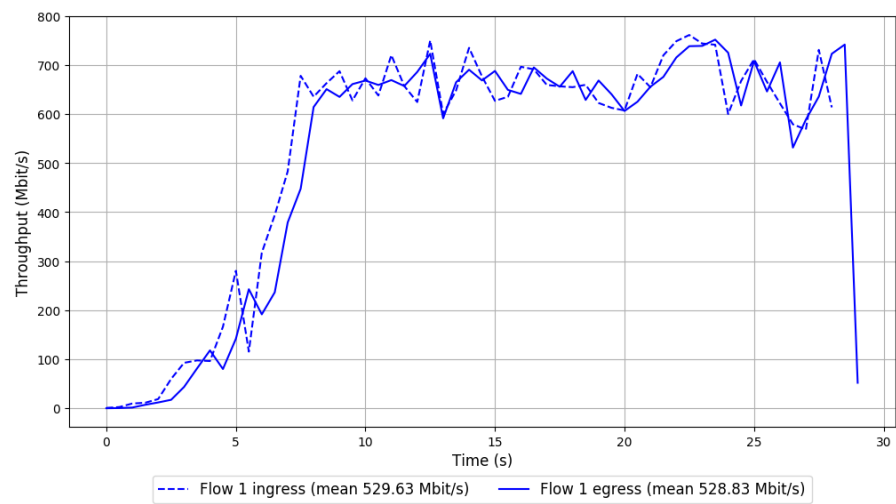
-- Flow 1:

Average throughput: 528.83 Mbit/s

95th percentile per-packet one-way delay: 203.630 ms

Loss rate: 0.15%

Run 3: Report of Indigo-MusesC3 — Data Link

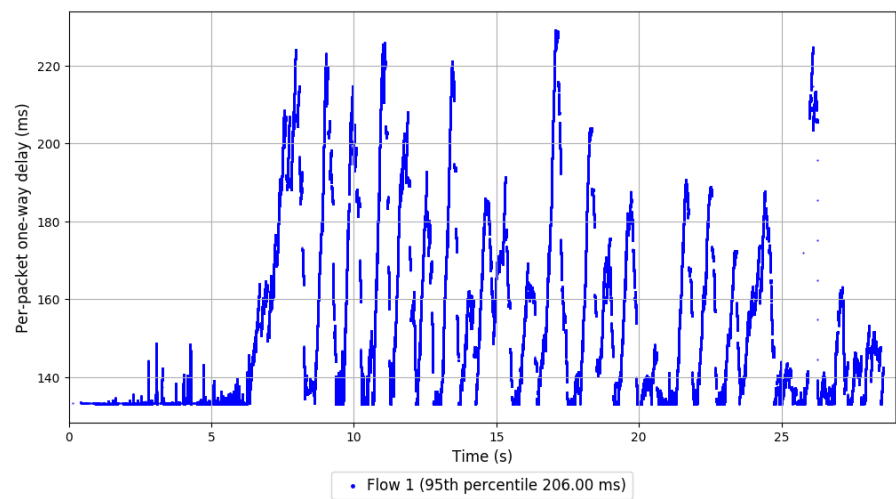
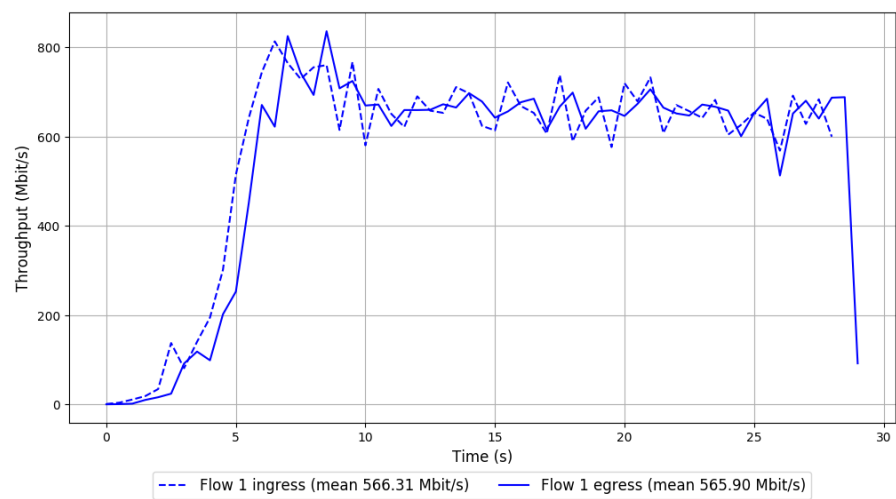


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-17 18:22:12  
End at: 2019-01-17 18:22:42  
Local clock offset: -0.315 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-01-17 20:20:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 565.90 Mbit/s  
95th percentile per-packet one-way delay: 206.004 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 565.90 Mbit/s  
95th percentile per-packet one-way delay: 206.004 ms  
Loss rate: 0.07%

Run 4: Report of Indigo-MusesC3 — Data Link

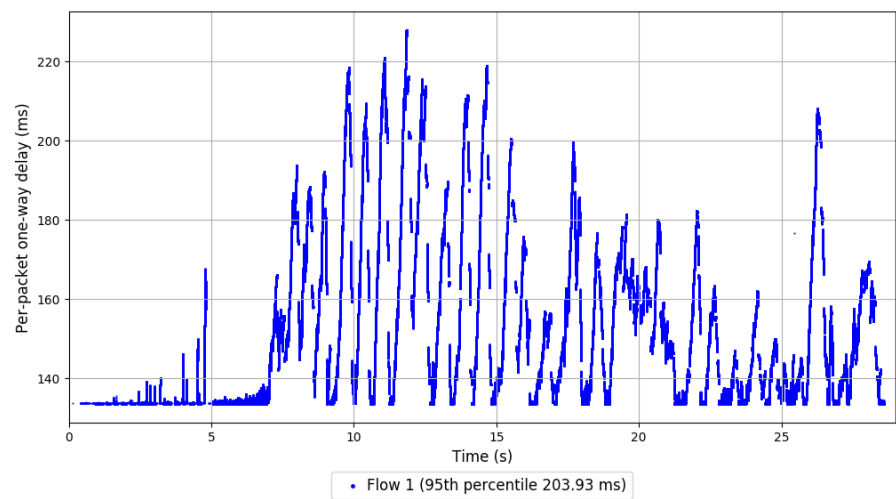
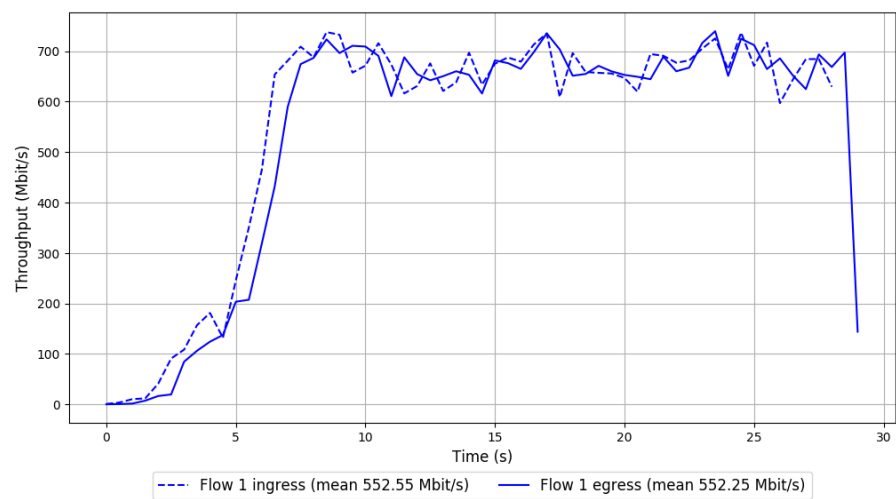


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-17 18:55:21  
End at: 2019-01-17 18:55:51  
Local clock offset: -0.152 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-01-17 20:21:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 552.25 Mbit/s  
95th percentile per-packet one-way delay: 203.932 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 552.25 Mbit/s  
95th percentile per-packet one-way delay: 203.932 ms  
Loss rate: 0.05%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-17 16:51:23

End at: 2019-01-17 16:51:53

Local clock offset: 0.03 ms

Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-17 20:21:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 419.85 Mbit/s

95th percentile per-packet one-way delay: 216.449 ms

Loss rate: 2.56%

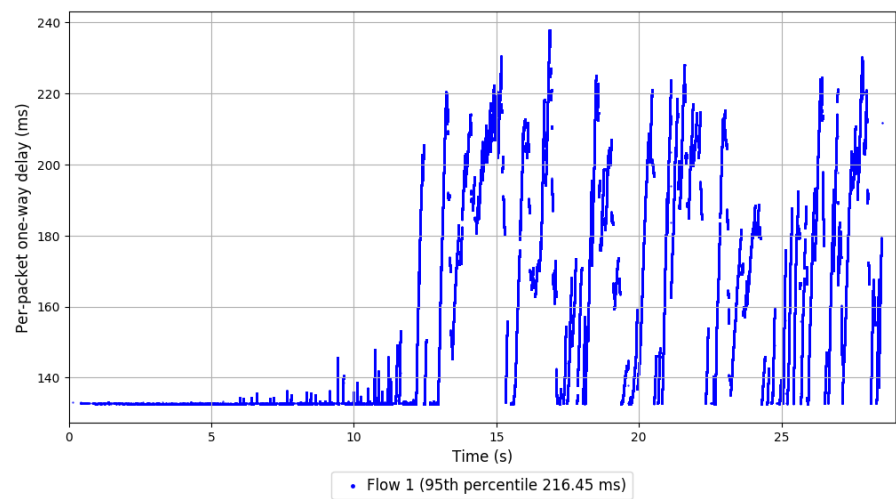
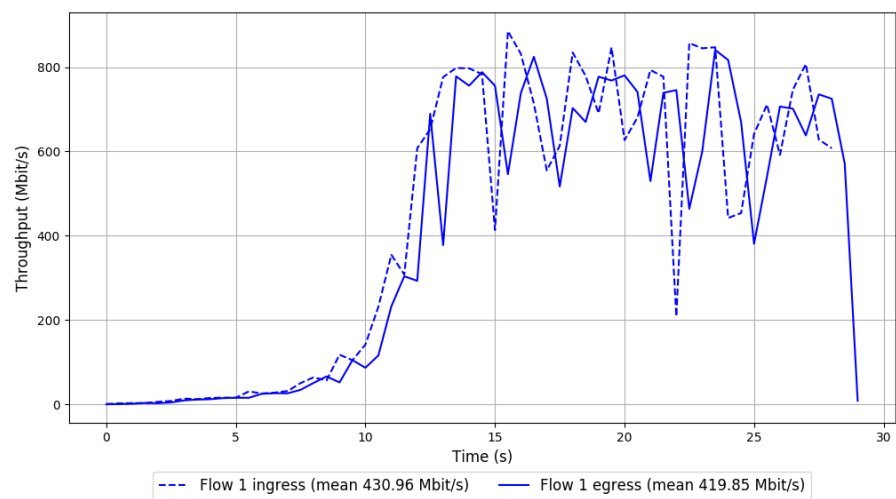
-- Flow 1:

Average throughput: 419.85 Mbit/s

95th percentile per-packet one-way delay: 216.449 ms

Loss rate: 2.56%

Run 1: Report of Indigo-MusesC5 — Data Link



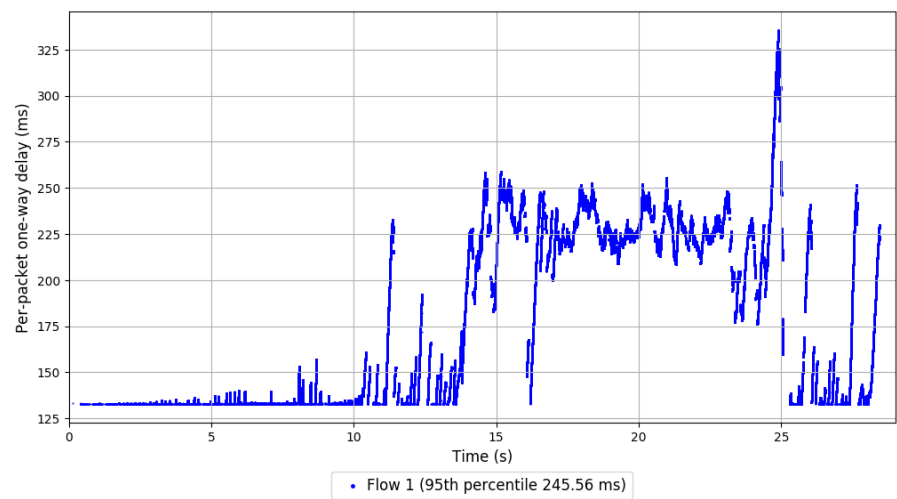
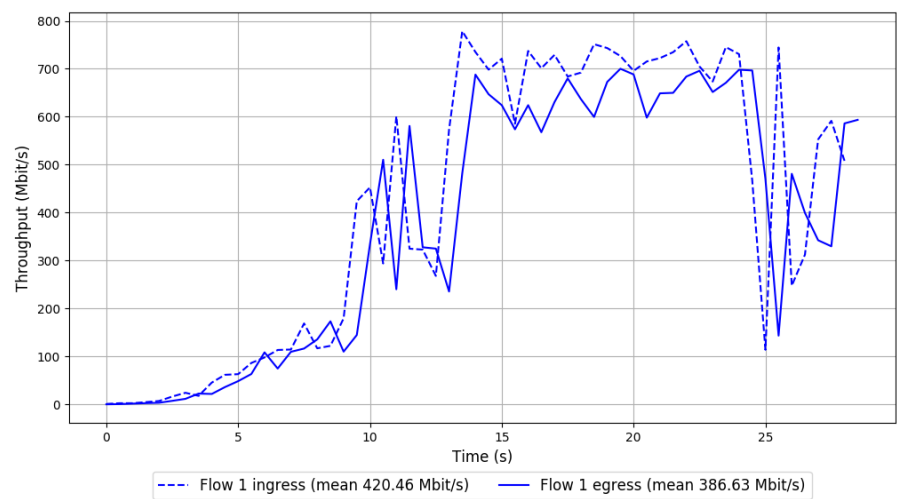


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-17 17:25:01  
End at: 2019-01-17 17:25:31  
Local clock offset: -0.069 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-01-17 20:23:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 386.63 Mbit/s  
95th percentile per-packet one-way delay: 245.565 ms  
Loss rate: 8.01%  
-- Flow 1:  
Average throughput: 386.63 Mbit/s  
95th percentile per-packet one-way delay: 245.565 ms  
Loss rate: 8.01%

Run 2: Report of Indigo-MusesC5 — Data Link

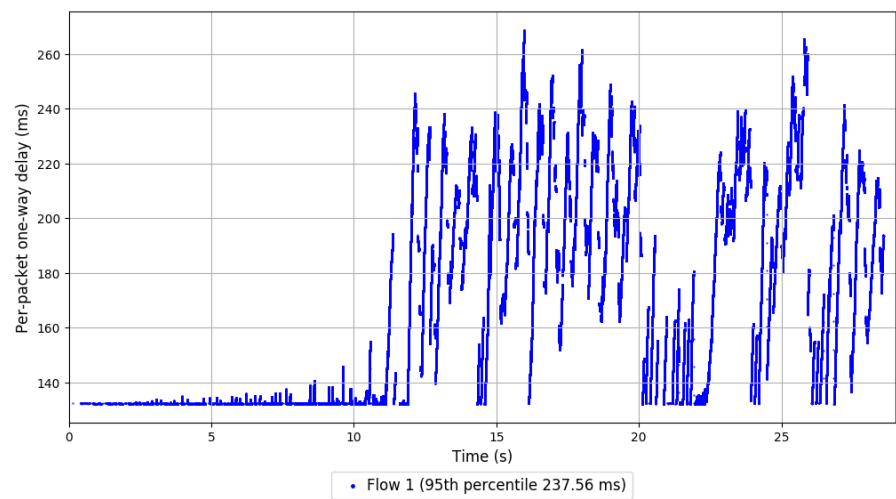
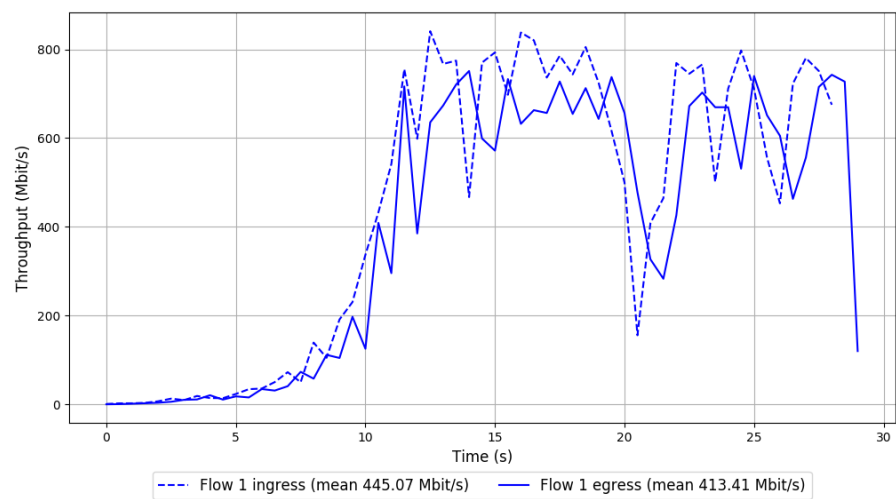


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-17 18:01:10  
End at: 2019-01-17 18:01:40  
Local clock offset: 0.111 ms  
Remote clock offset: -0.492 ms

# Below is generated by plot.py at 2019-01-17 20:24:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 413.41 Mbit/s  
95th percentile per-packet one-way delay: 237.563 ms  
Loss rate: 7.11%  
-- Flow 1:  
Average throughput: 413.41 Mbit/s  
95th percentile per-packet one-way delay: 237.563 ms  
Loss rate: 7.11%

Run 3: Report of Indigo-MusesC5 — Data Link

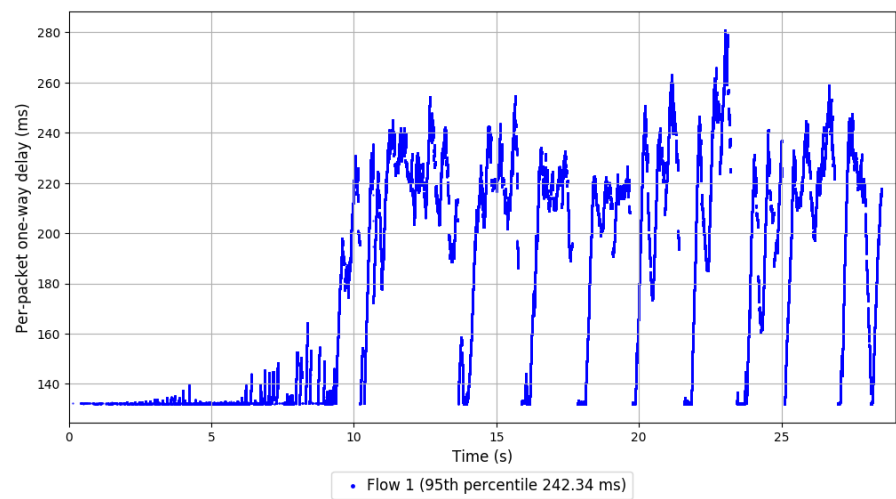
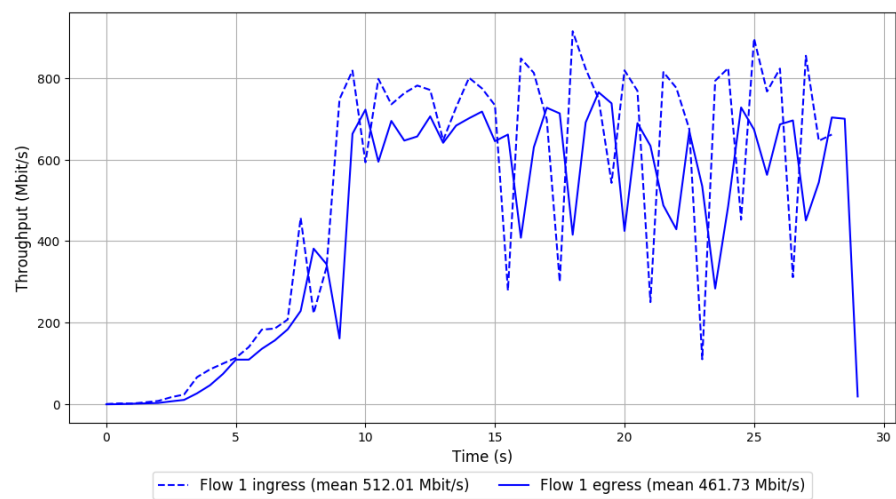


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-17 18:32:58  
End at: 2019-01-17 18:33:28  
Local clock offset: -0.051 ms  
Remote clock offset: -0.443 ms

# Below is generated by plot.py at 2019-01-17 20:26:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 461.73 Mbit/s  
95th percentile per-packet one-way delay: 242.345 ms  
Loss rate: 9.82%  
-- Flow 1:  
Average throughput: 461.73 Mbit/s  
95th percentile per-packet one-way delay: 242.345 ms  
Loss rate: 9.82%

Run 4: Report of Indigo-MusesC5 — Data Link

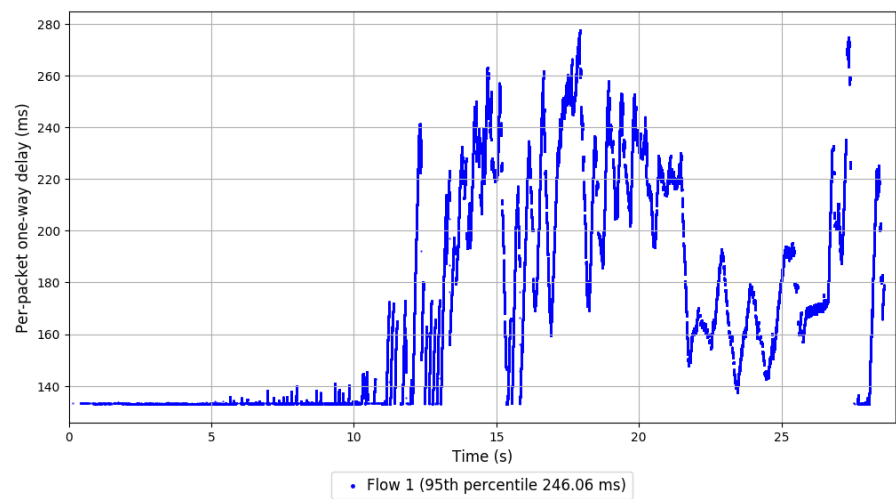
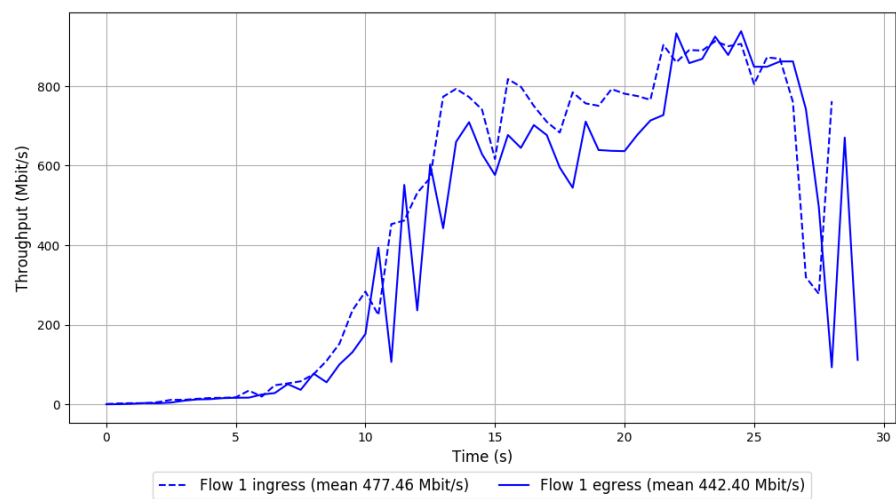


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-17 19:06:35  
End at: 2019-01-17 19:07:05  
Local clock offset: 0.24 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-01-17 20:26:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 442.40 Mbit/s  
95th percentile per-packet one-way delay: 246.060 ms  
Loss rate: 7.34%  
-- Flow 1:  
Average throughput: 442.40 Mbit/s  
95th percentile per-packet one-way delay: 246.060 ms  
Loss rate: 7.34%

Run 5: Report of Indigo-MusesC5 — Data Link



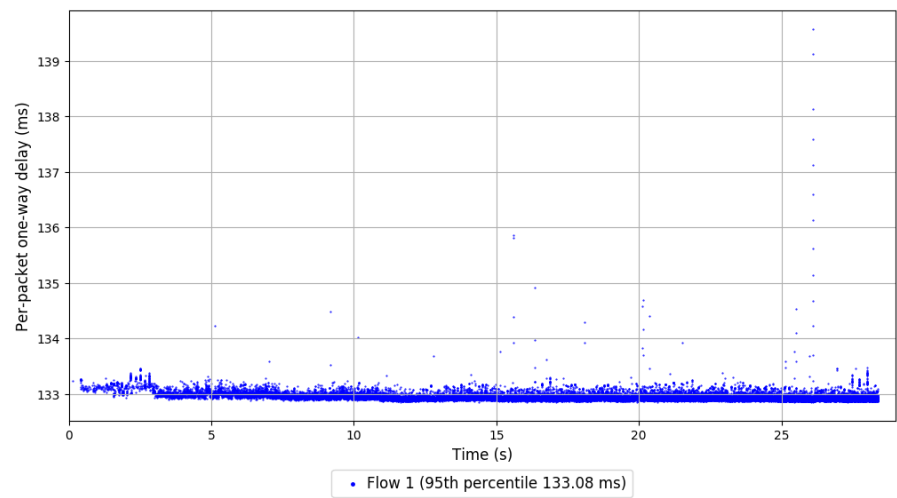
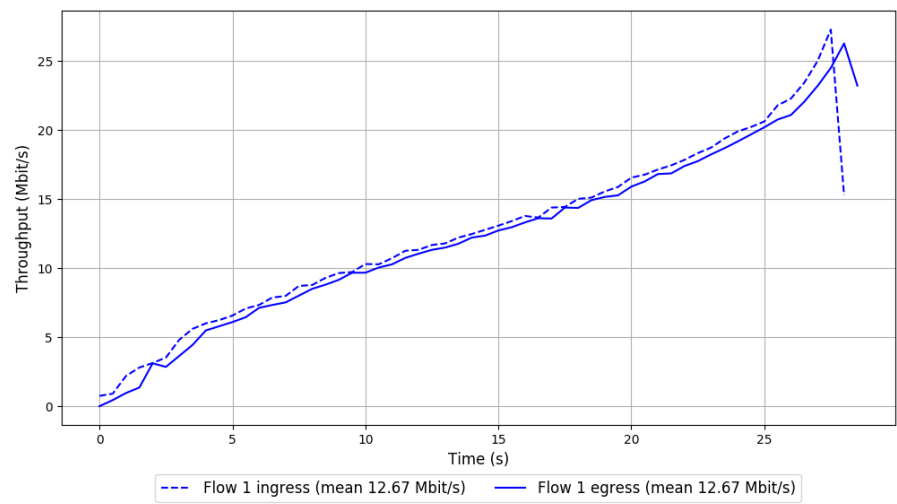


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-17 16:59:45
End at: 2019-01-17 17:00:15
Local clock offset: -0.145 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-01-17 20:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 133.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 133.084 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-17 17:34:24

End at: 2019-01-17 17:34:54

Local clock offset: -0.085 ms

Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-01-17 20:26:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.39 Mbit/s

95th percentile per-packet one-way delay: 132.877 ms

Loss rate: 0.00%

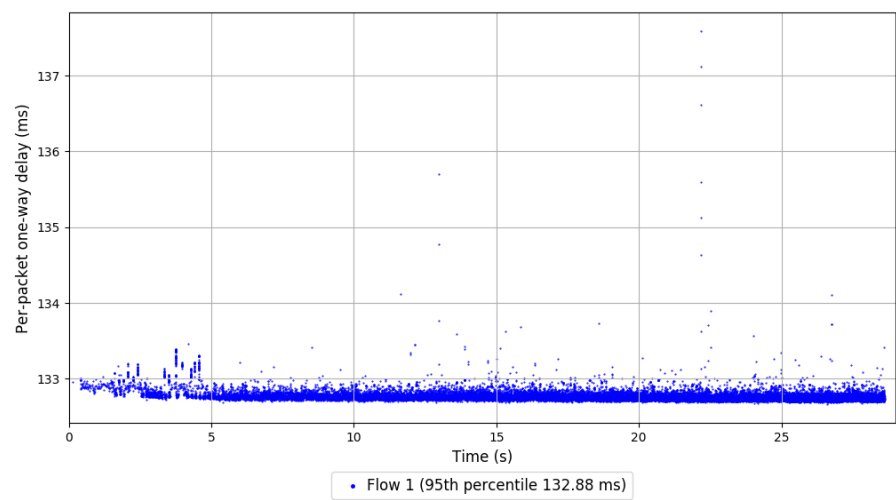
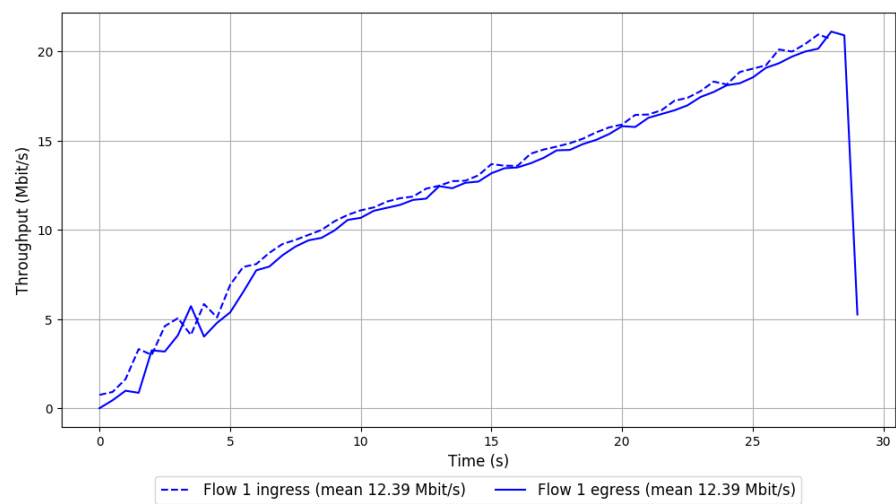
-- Flow 1:

Average throughput: 12.39 Mbit/s

95th percentile per-packet one-way delay: 132.877 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-17 18:09:06

End at: 2019-01-17 18:09:36

Local clock offset: 0.177 ms

Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-01-17 20:26:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.00 Mbit/s

95th percentile per-packet one-way delay: 132.984 ms

Loss rate: 0.00%

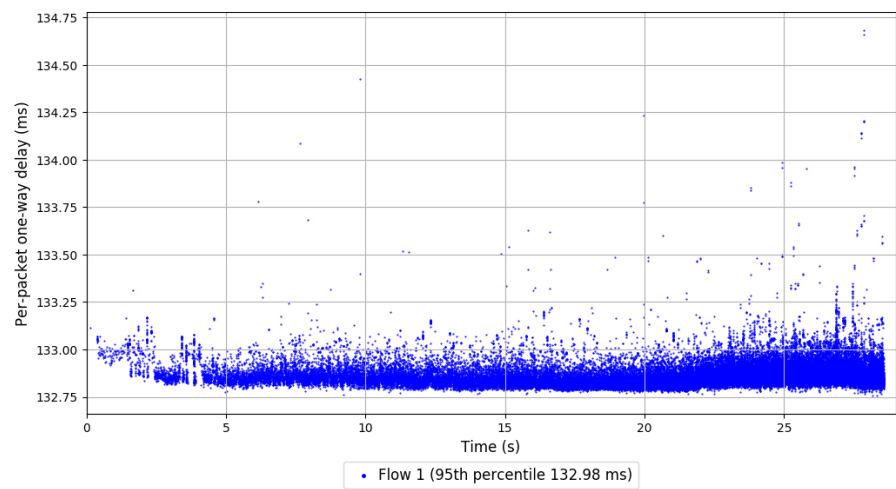
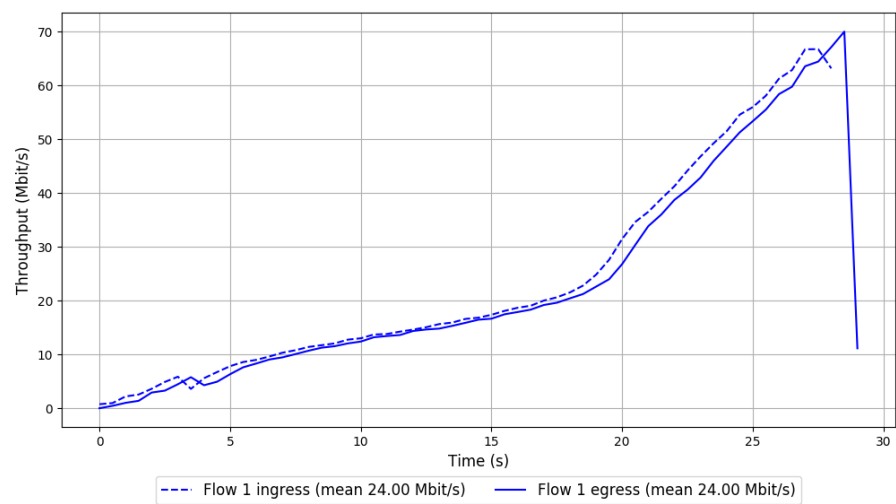
-- Flow 1:

Average throughput: 24.00 Mbit/s

95th percentile per-packet one-way delay: 132.984 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

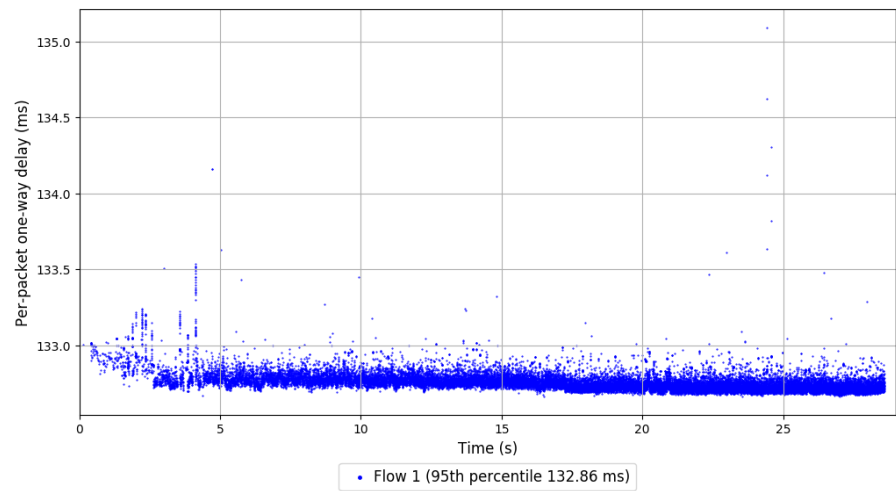
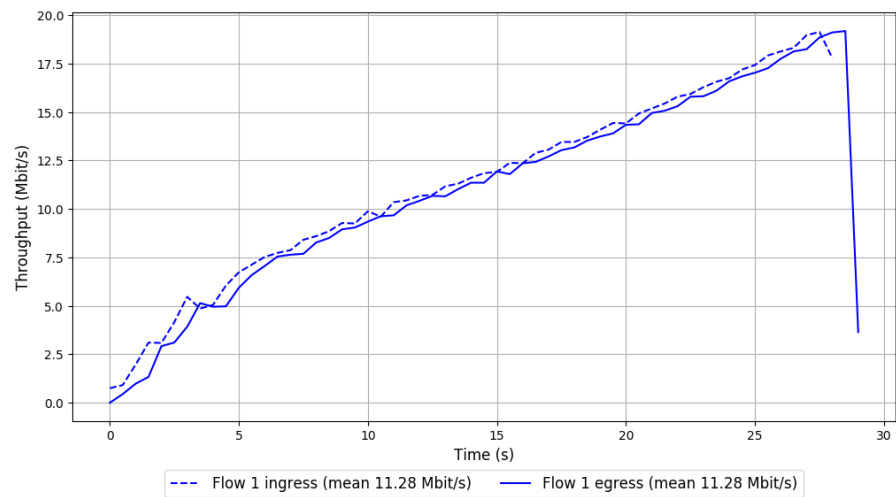


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-17 18:41:26  
End at: 2019-01-17 18:41:56  
Local clock offset: -0.053 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-01-17 20:26:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.28 Mbit/s  
95th percentile per-packet one-way delay: 132.858 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 11.28 Mbit/s  
95th percentile per-packet one-way delay: 132.858 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-17 19:14:40

End at: 2019-01-17 19:15:10

Local clock offset: 0.285 ms

Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-01-17 20:26:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 132.581 ms

Loss rate: 0.00%

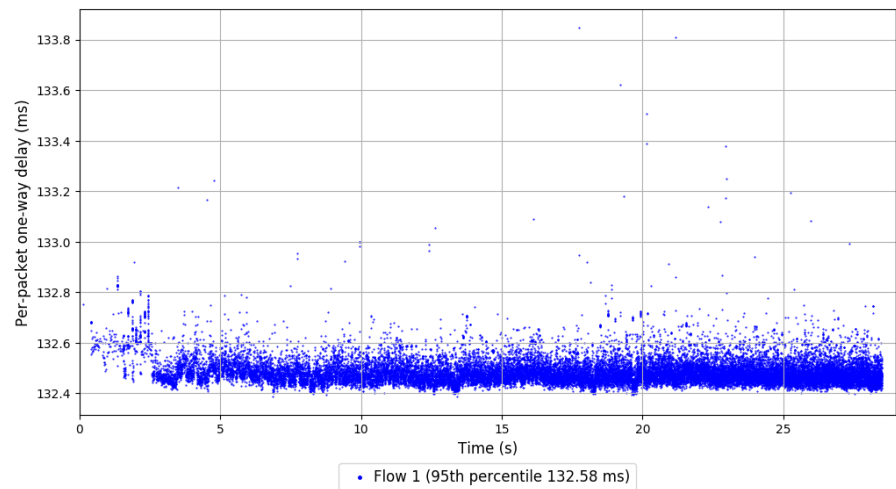
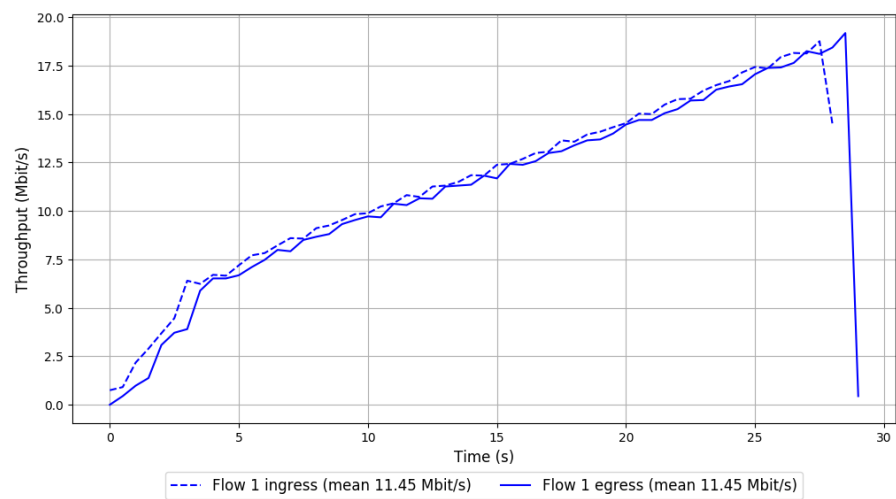
-- Flow 1:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 132.581 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

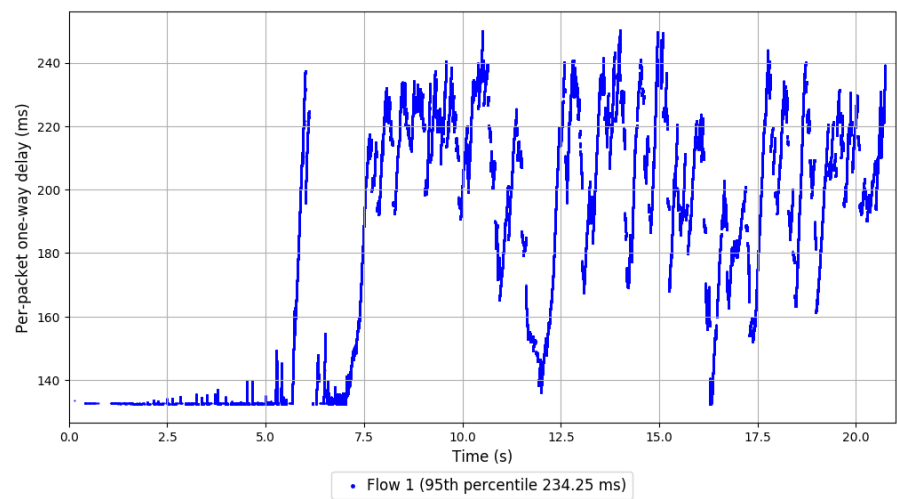
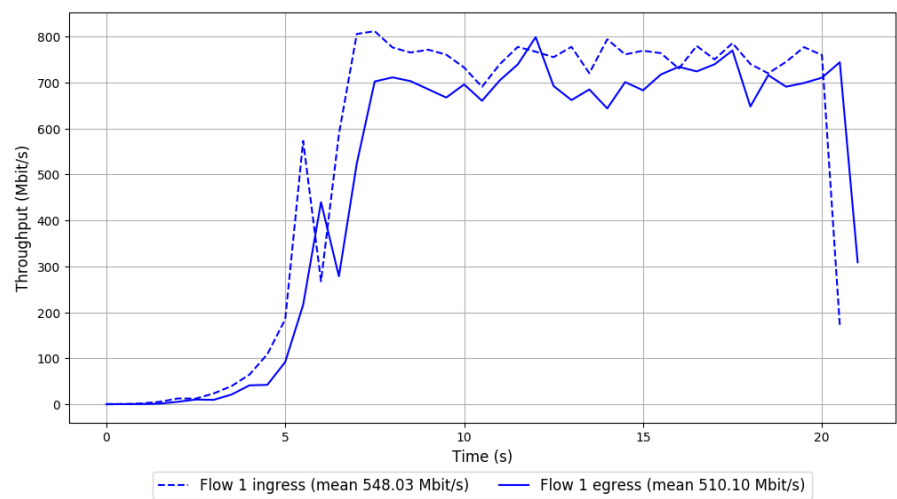
Start at: 2019-01-17 16:33:32

End at: 2019-01-17 16:34:02

Local clock offset: 0.127 ms

Remote clock offset: -0.188 ms

Run 1: Report of Indigo-MusesT — Data Link

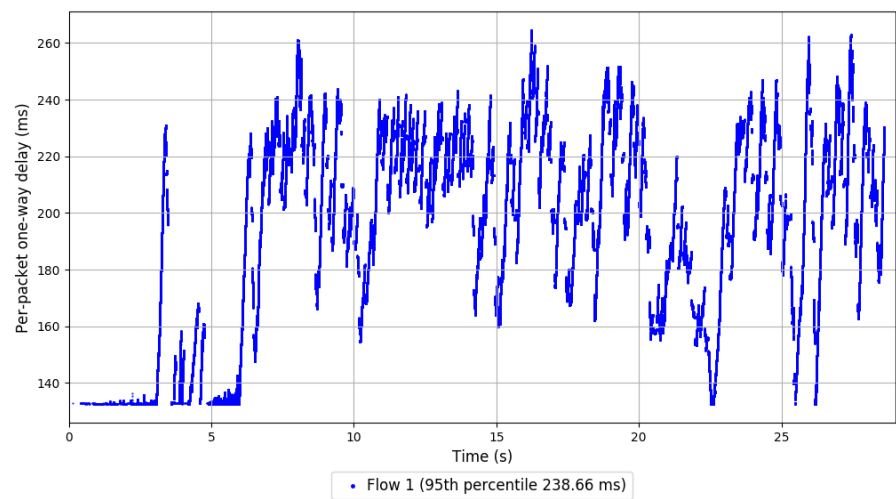
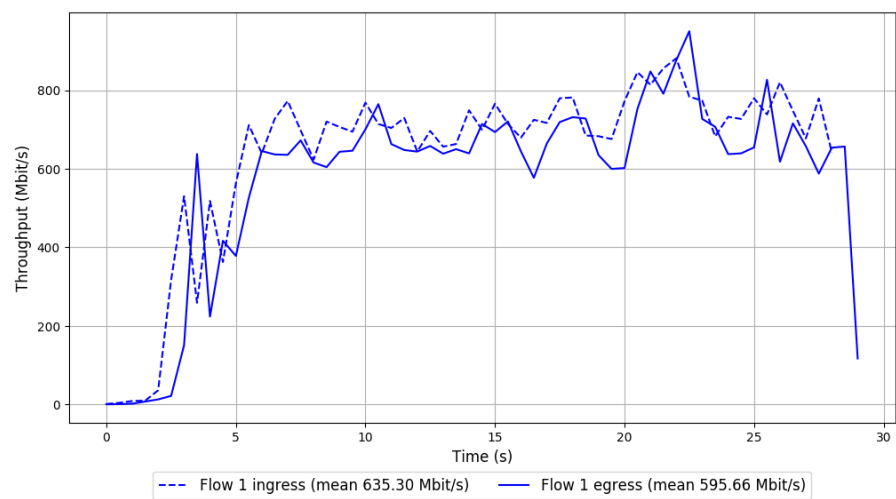


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-17 17:05:40  
End at: 2019-01-17 17:06:10  
Local clock offset: 0.095 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-01-17 20:30:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 595.66 Mbit/s  
95th percentile per-packet one-way delay: 238.664 ms  
Loss rate: 6.24%  
-- Flow 1:  
Average throughput: 595.66 Mbit/s  
95th percentile per-packet one-way delay: 238.664 ms  
Loss rate: 6.24%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-17 17:41:13

End at: 2019-01-17 17:41:43

Local clock offset: -0.08 ms

Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-01-17 20:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 554.10 Mbit/s

95th percentile per-packet one-way delay: 242.220 ms

Loss rate: 5.89%

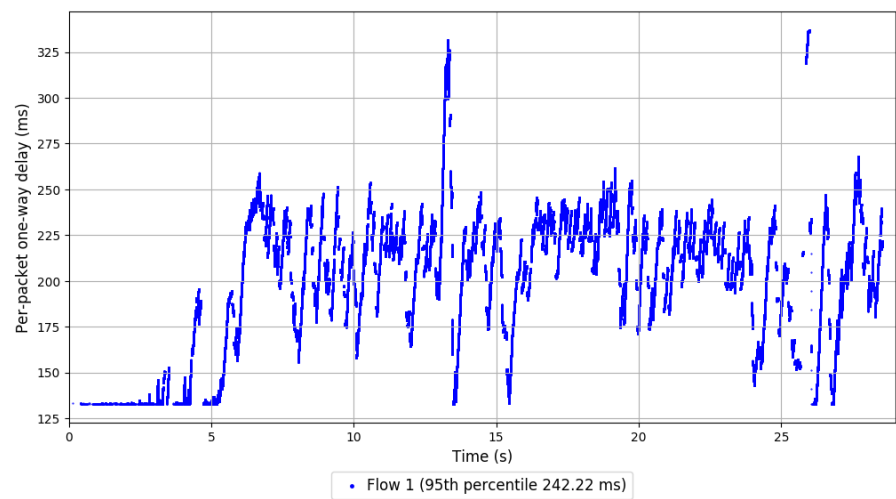
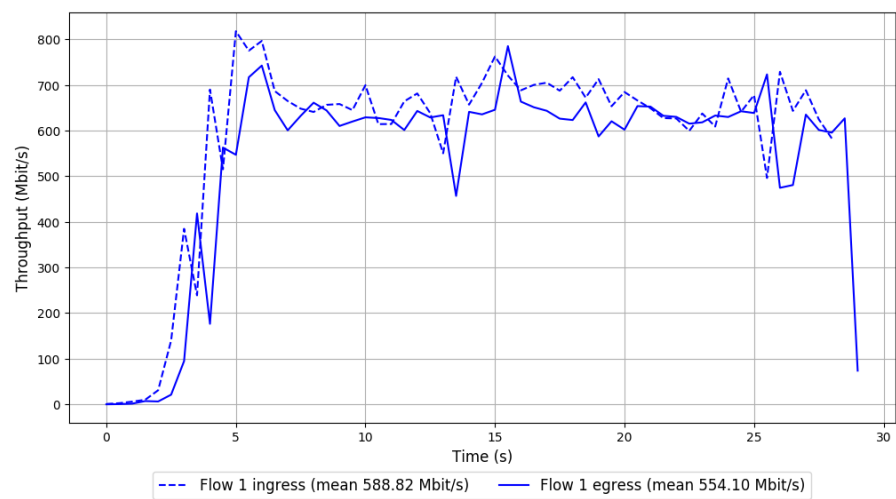
-- Flow 1:

Average throughput: 554.10 Mbit/s

95th percentile per-packet one-way delay: 242.220 ms

Loss rate: 5.89%

Run 3: Report of Indigo-MusesT — Data Link



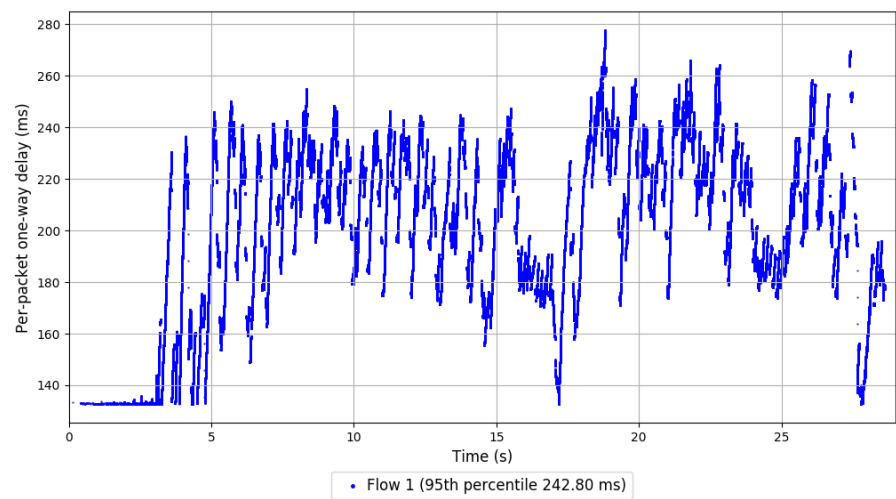
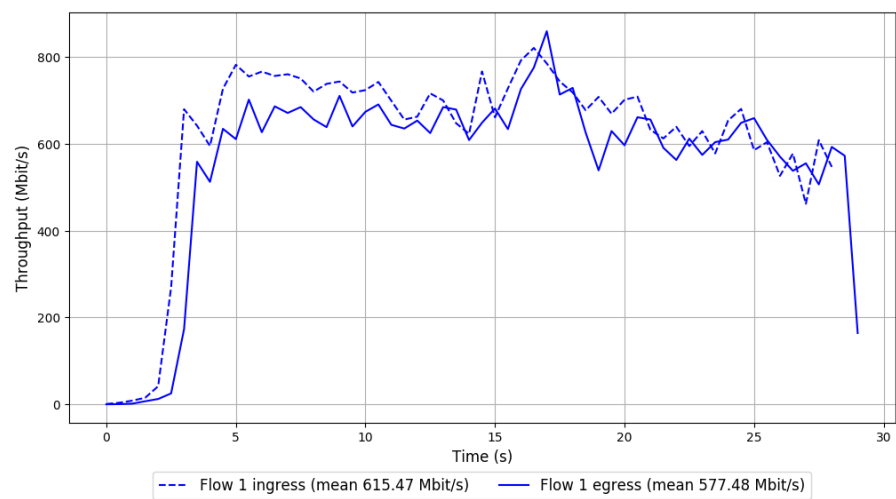


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-17 18:14:57  
End at: 2019-01-17 18:15:28  
Local clock offset: 0.161 ms  
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-01-17 20:31:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 577.48 Mbit/s  
95th percentile per-packet one-way delay: 242.796 ms  
Loss rate: 6.17%  
-- Flow 1:  
Average throughput: 577.48 Mbit/s  
95th percentile per-packet one-way delay: 242.796 ms  
Loss rate: 6.17%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-17 18:47:56

End at: 2019-01-17 18:48:26

Local clock offset: -0.31 ms

Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-01-17 20:33:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 598.14 Mbit/s

95th percentile per-packet one-way delay: 240.521 ms

Loss rate: 9.29%

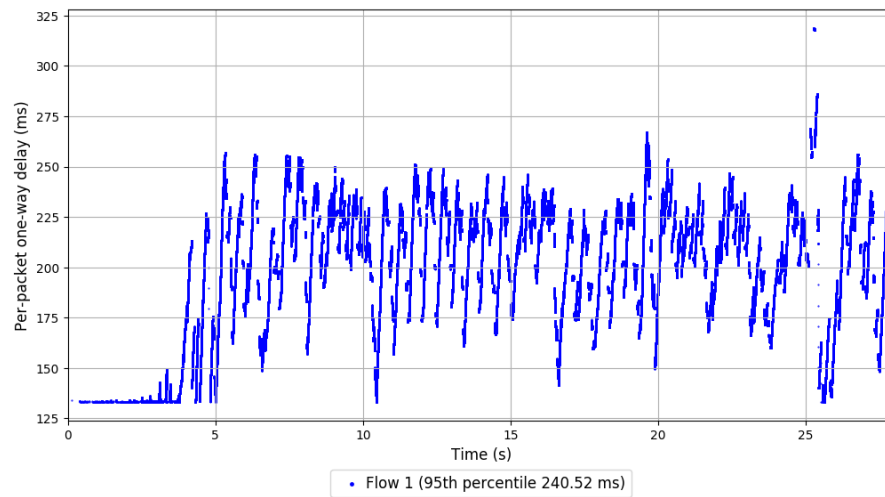
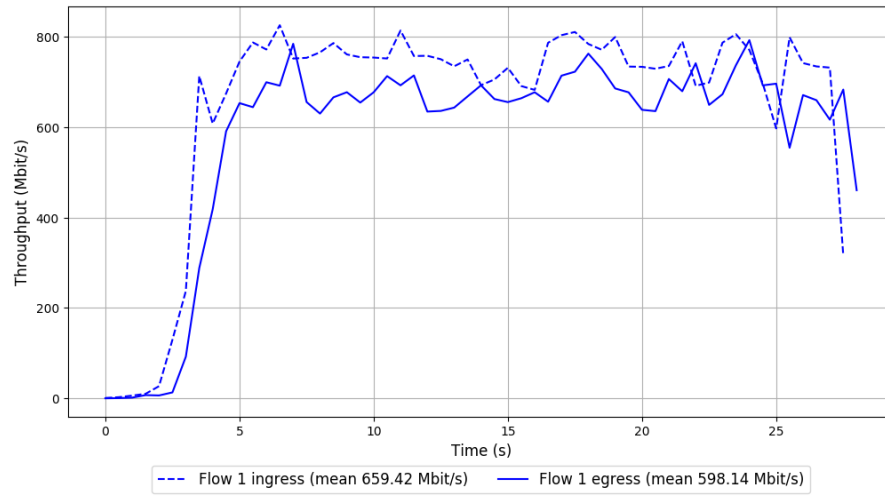
-- Flow 1:

Average throughput: 598.14 Mbit/s

95th percentile per-packet one-way delay: 240.521 ms

Loss rate: 9.29%

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

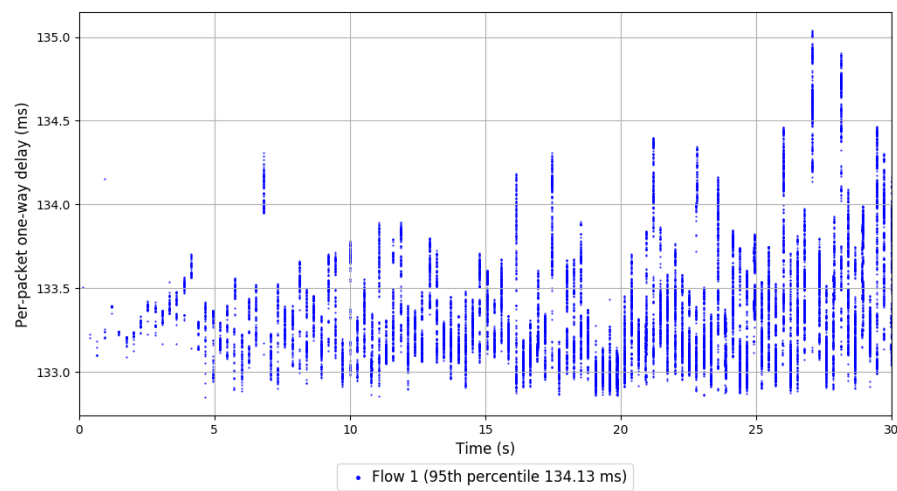
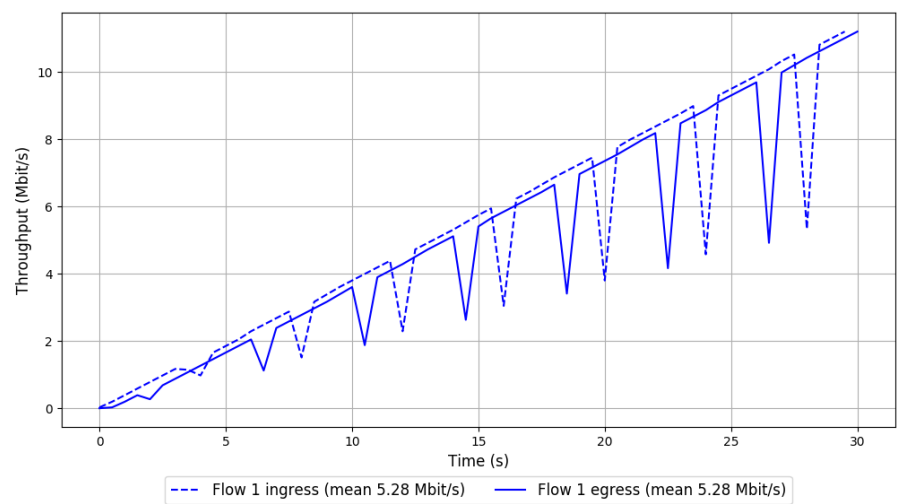


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-17 16:32:19
End at: 2019-01-17 16:32:49
Local clock offset: 0.096 ms
Remote clock offset: 0.239 ms

# Below is generated by plot.py at 2019-01-17 20:33:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 134.131 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 134.131 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-17 17:04:28

End at: 2019-01-17 17:04:58

Local clock offset: -0.174 ms

Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2019-01-17 20:33:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 134.638 ms

Loss rate: 0.00%

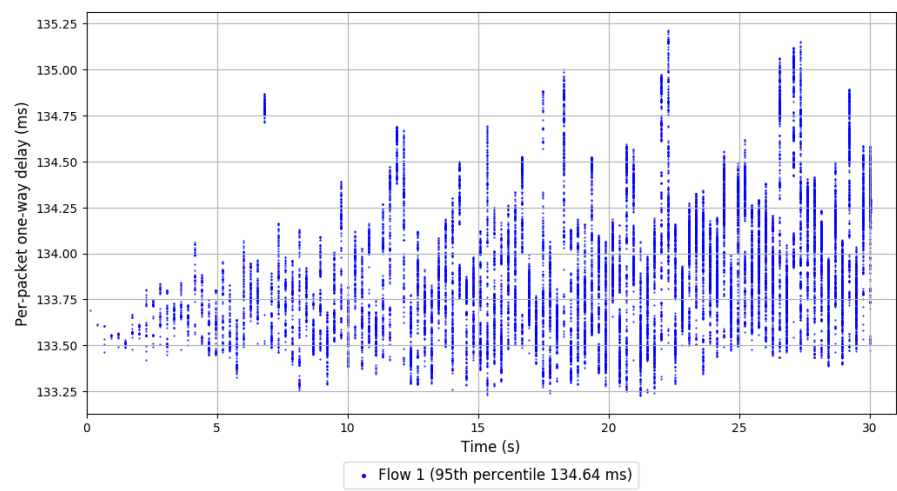
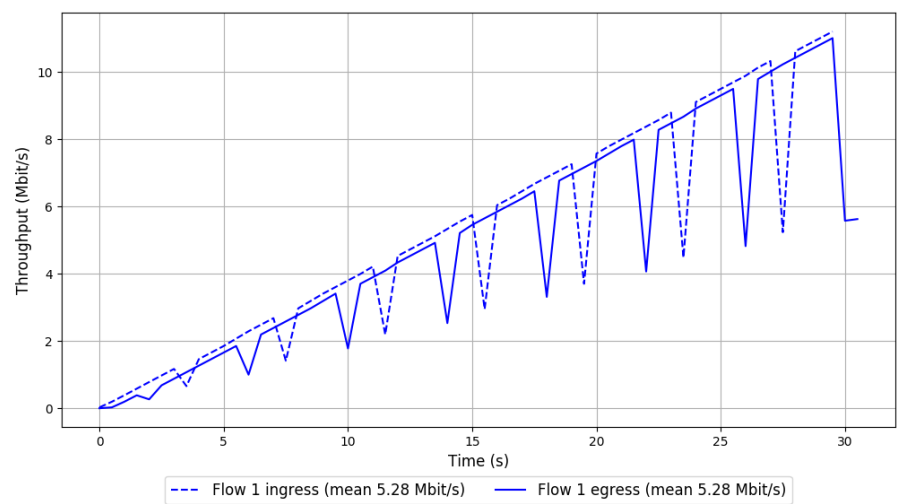
-- Flow 1:

Average throughput: 5.28 Mbit/s

95th percentile per-packet one-way delay: 134.638 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



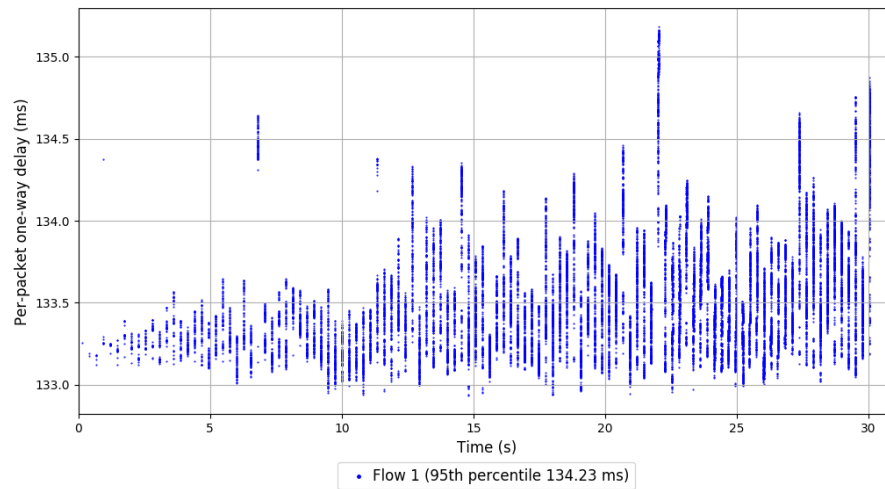
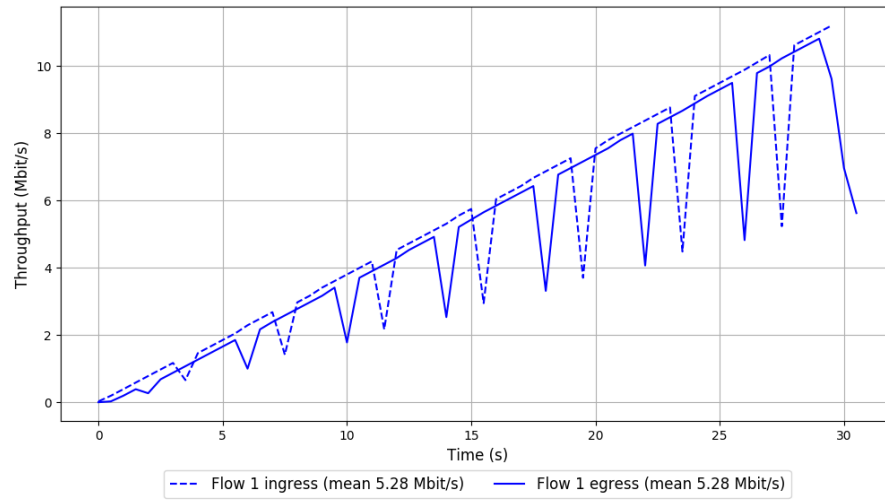


Run 3: Statistics of LEDBAT

Start at: 2019-01-17 17:40:01  
End at: 2019-01-17 17:40:31  
Local clock offset: 0.063 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-01-17 20:33:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.28 Mbit/s  
95th percentile per-packet one-way delay: 134.230 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.28 Mbit/s  
95th percentile per-packet one-way delay: 134.230 ms  
Loss rate: 0.00%

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

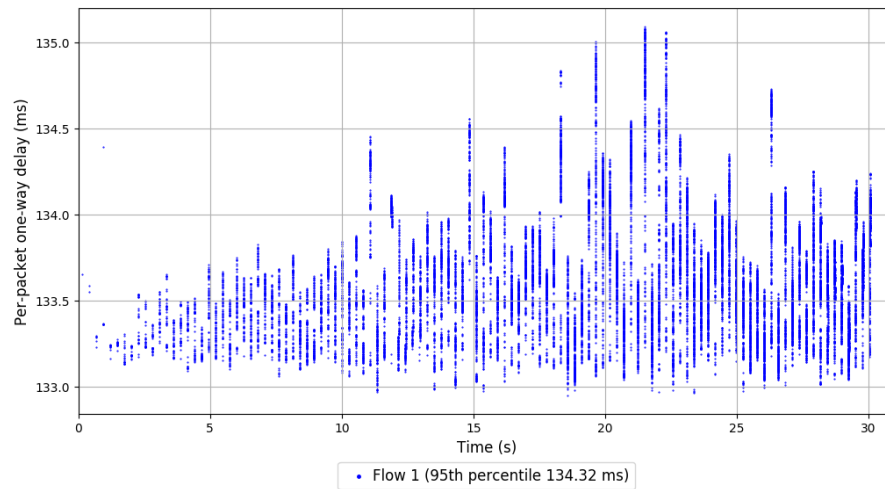
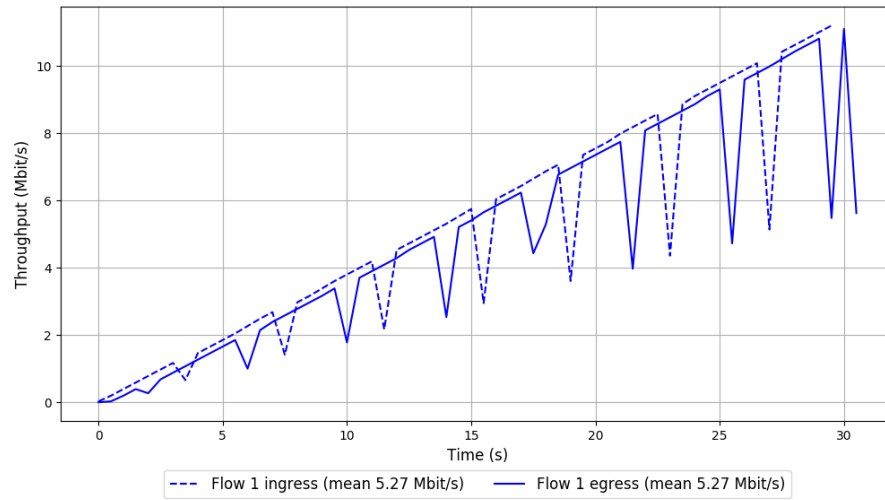


Run 4: Statistics of LEDBAT

Start at: 2019-01-17 18:13:46  
End at: 2019-01-17 18:14:16  
Local clock offset: -0.273 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-01-17 20:33:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.27 Mbit/s  
95th percentile per-packet one-way delay: 134.317 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.27 Mbit/s  
95th percentile per-packet one-way delay: 134.317 ms  
Loss rate: 0.00%

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

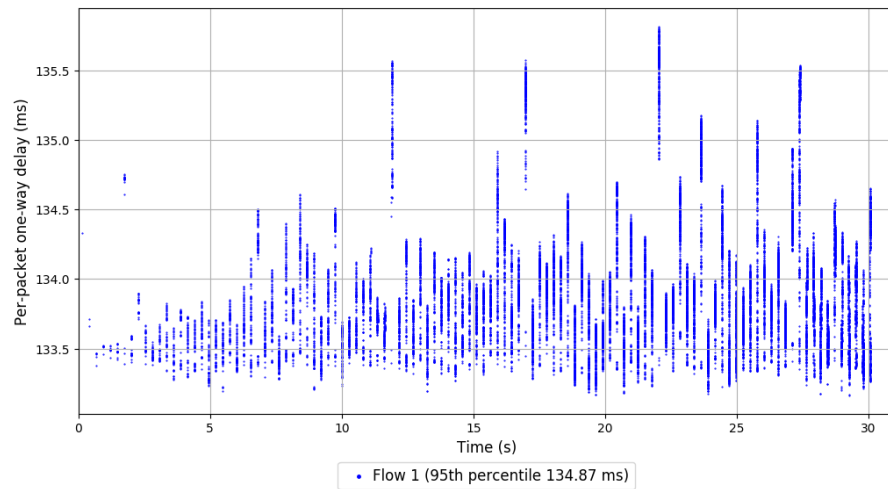
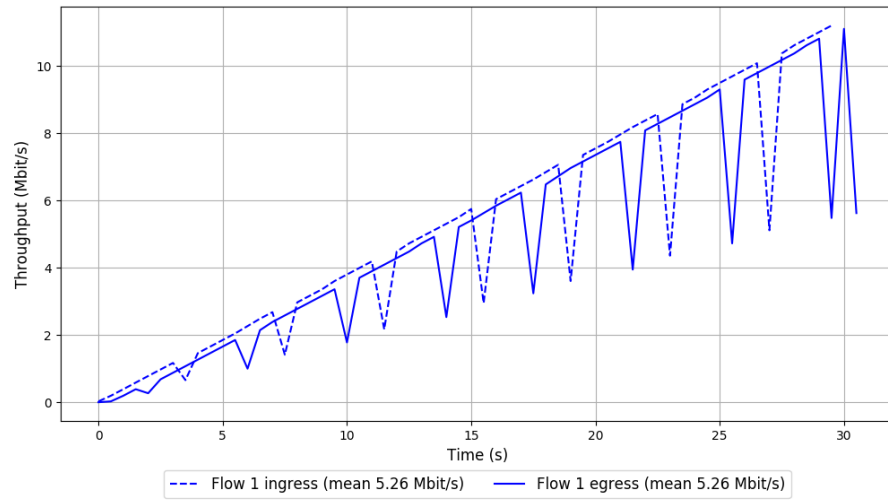


Run 5: Statistics of LEDBAT

Start at: 2019-01-17 18:46:44  
End at: 2019-01-17 18:47:14  
Local clock offset: -0.441 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-17 20:33:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.26 Mbit/s  
95th percentile per-packet one-way delay: 134.867 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.26 Mbit/s  
95th percentile per-packet one-way delay: 134.867 ms  
Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-17 17:02:51

End at: 2019-01-17 17:03:21

Local clock offset: 0.052 ms

Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-01-17 20:37:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 353.20 Mbit/s

95th percentile per-packet one-way delay: 223.613 ms

Loss rate: 1.05%

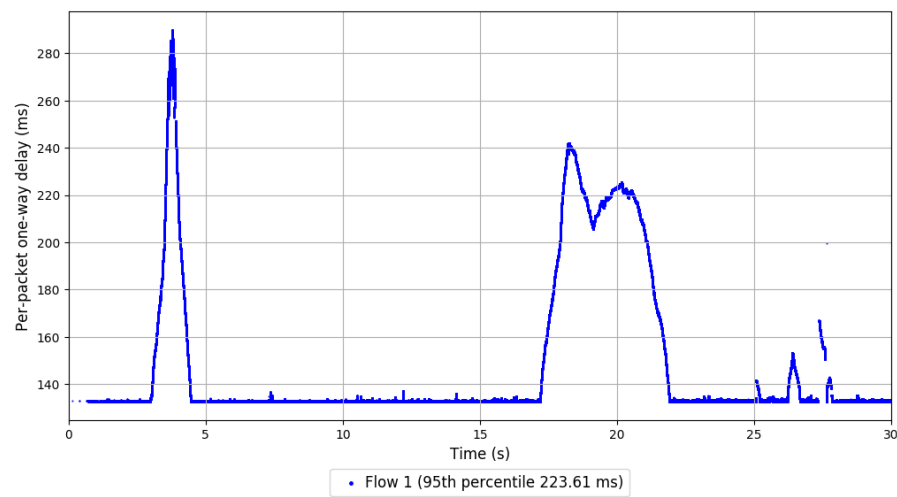
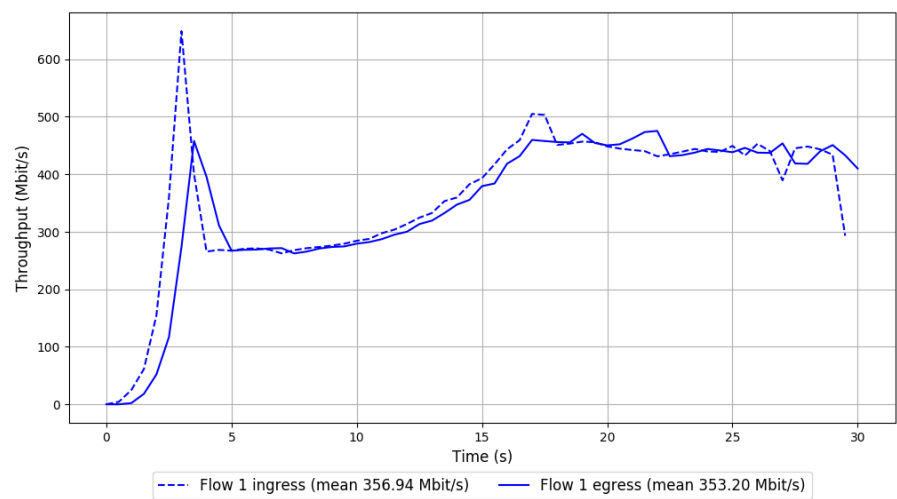
-- Flow 1:

Average throughput: 353.20 Mbit/s

95th percentile per-packet one-way delay: 223.613 ms

Loss rate: 1.05%

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-17 17:37:53

End at: 2019-01-17 17:38:23

Local clock offset: -0.36 ms

Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-01-17 20:38:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 338.55 Mbit/s

95th percentile per-packet one-way delay: 171.889 ms

Loss rate: 0.22%

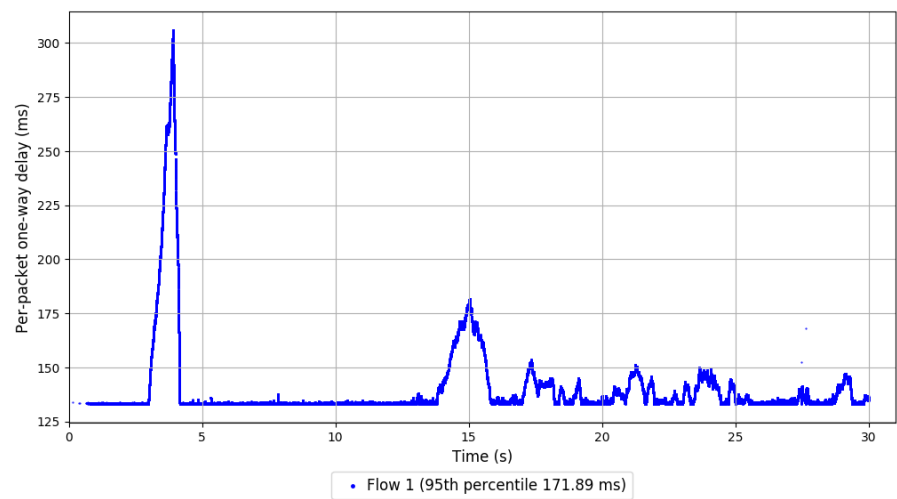
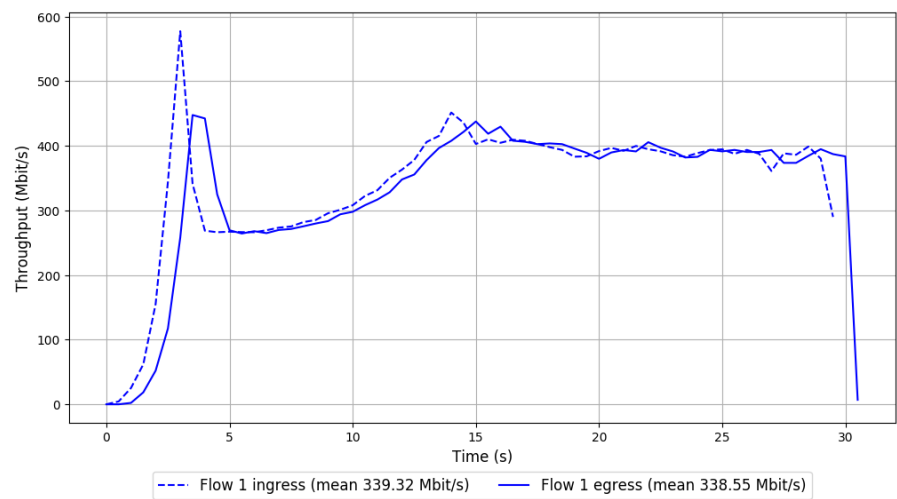
-- Flow 1:

Average throughput: 338.55 Mbit/s

95th percentile per-packet one-way delay: 171.889 ms

Loss rate: 0.22%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-17 18:11:58

End at: 2019-01-17 18:12:28

Local clock offset: 0.112 ms

Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-01-17 20:44:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 474.92 Mbit/s

95th percentile per-packet one-way delay: 202.631 ms

Loss rate: 0.30%

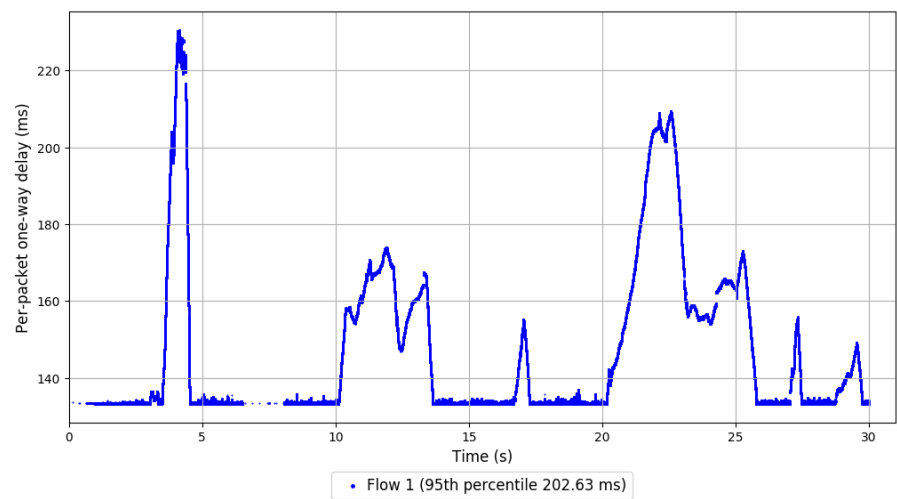
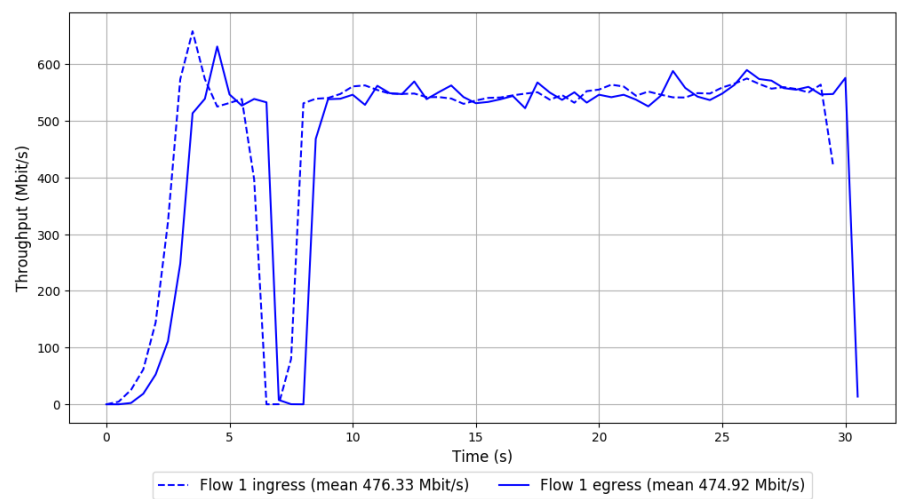
-- Flow 1:

Average throughput: 474.92 Mbit/s

95th percentile per-packet one-way delay: 202.631 ms

Loss rate: 0.30%

Run 3: Report of PCC-Allegro — Data Link

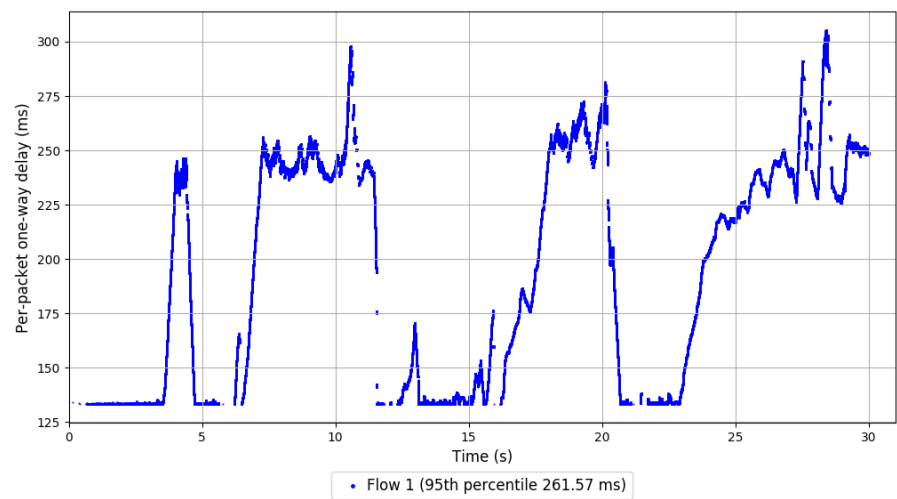
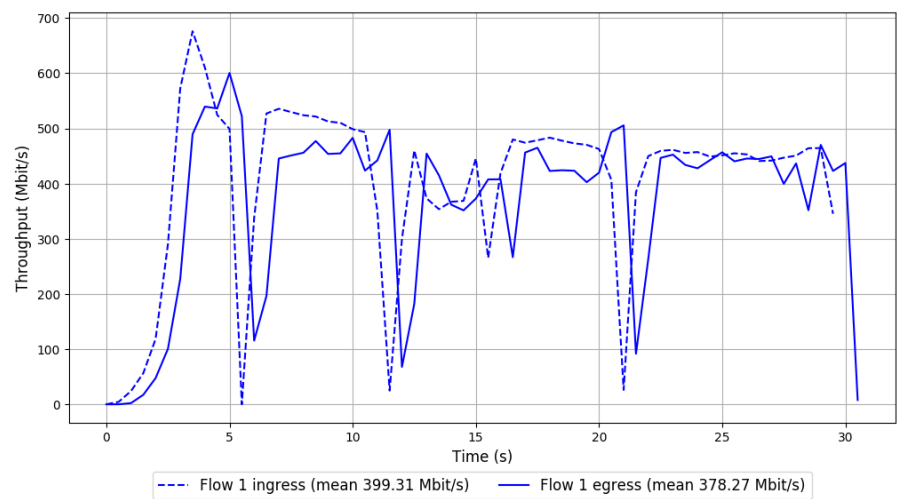


Run 4: Statistics of PCC-Allegro

Start at: 2019-01-17 18:44:49  
End at: 2019-01-17 18:45:19  
Local clock offset: -0.259 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-01-17 20:44:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 378.27 Mbit/s  
95th percentile per-packet one-way delay: 261.575 ms  
Loss rate: 5.27%  
-- Flow 1:  
Average throughput: 378.27 Mbit/s  
95th percentile per-packet one-way delay: 261.575 ms  
Loss rate: 5.27%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-17 19:17:53

End at: 2019-01-17 19:18:23

Local clock offset: -0.151 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-01-17 20:47:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 410.43 Mbit/s

95th percentile per-packet one-way delay: 264.654 ms

Loss rate: 5.18%

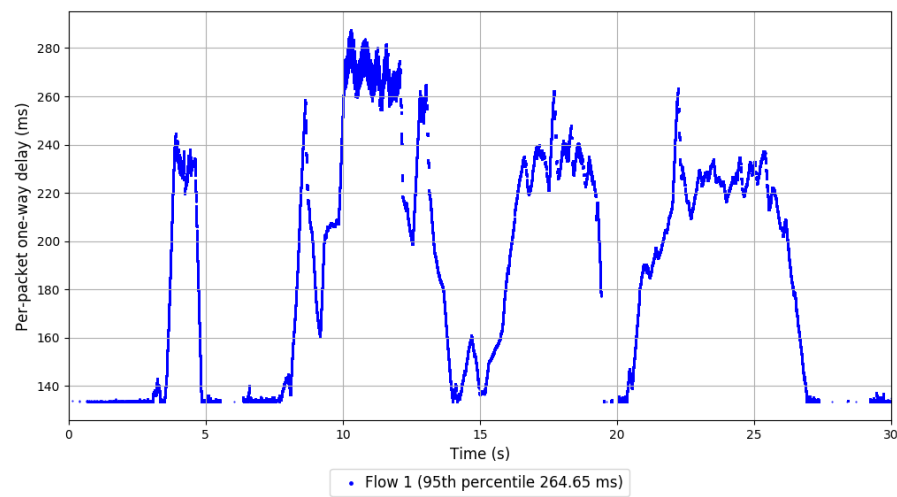
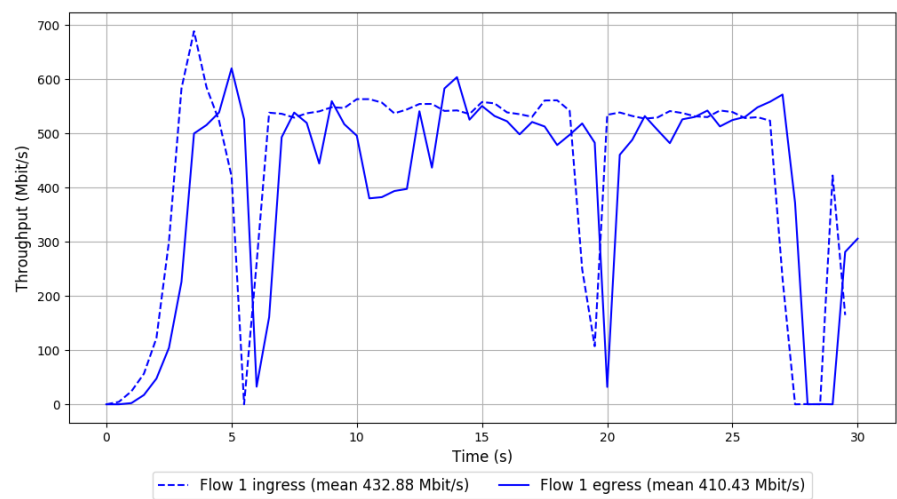
-- Flow 1:

Average throughput: 410.43 Mbit/s

95th percentile per-packet one-way delay: 264.654 ms

Loss rate: 5.18%

Run 5: Report of PCC-Allegro — Data Link



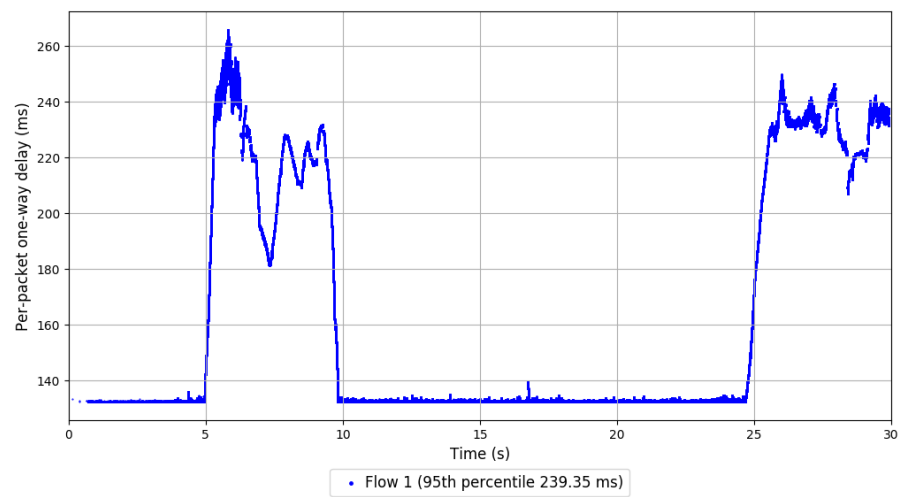
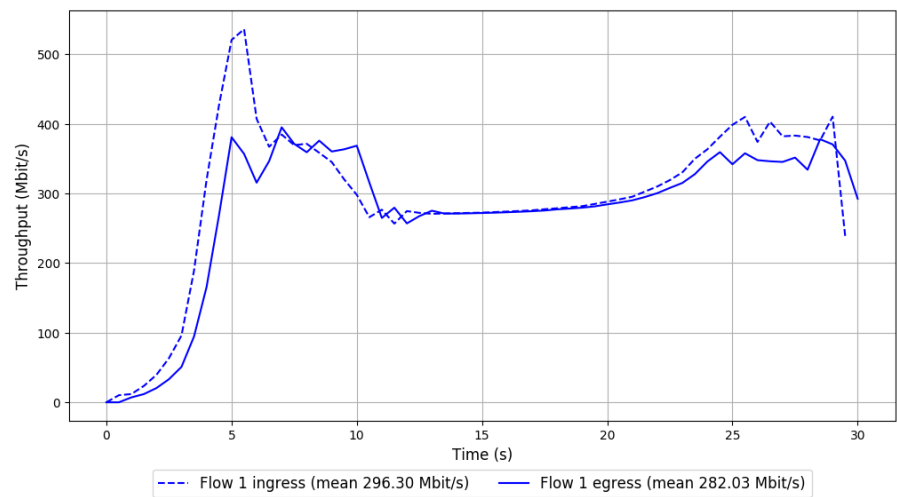


Run 1: Statistics of PCC-Expr

Start at: 2019-01-17 16:58:00  
End at: 2019-01-17 16:58:30  
Local clock offset: -0.155 ms  
Remote clock offset: -0.483 ms

# Below is generated by plot.py at 2019-01-17 20:47:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 282.03 Mbit/s  
95th percentile per-packet one-way delay: 239.354 ms  
Loss rate: 4.82%  
-- Flow 1:  
Average throughput: 282.03 Mbit/s  
95th percentile per-packet one-way delay: 239.354 ms  
Loss rate: 4.82%

Run 1: Report of PCC-Expr — Data Link

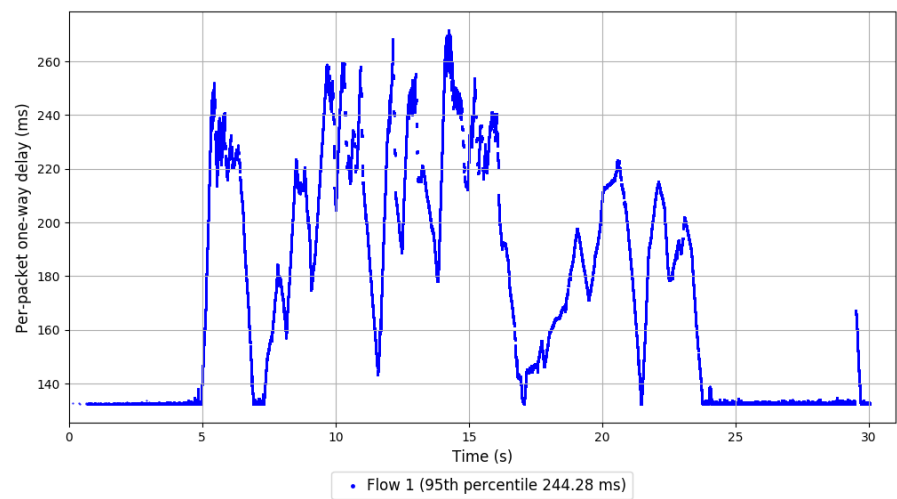
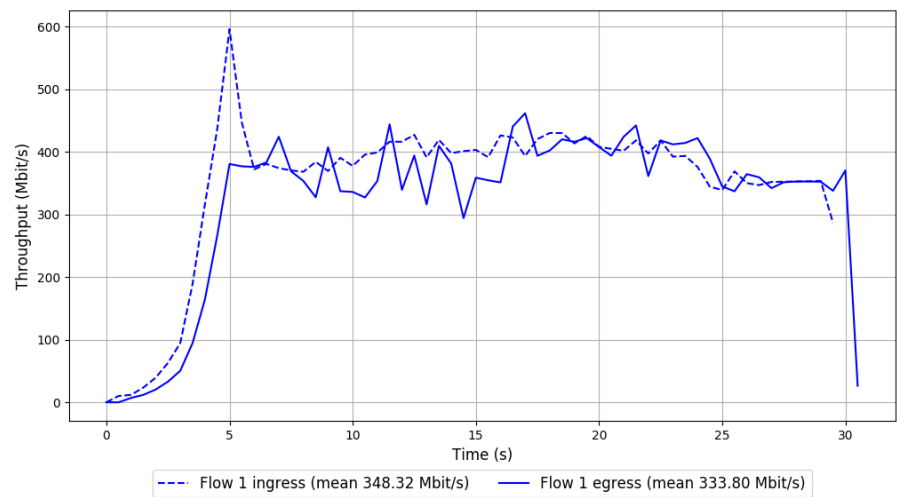


Run 2: Statistics of PCC-Expr

Start at: 2019-01-17 17:31:53  
End at: 2019-01-17 17:32:23  
Local clock offset: 0.338 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-01-17 20:47:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 333.80 Mbit/s  
95th percentile per-packet one-way delay: 244.284 ms  
Loss rate: 4.17%  
-- Flow 1:  
Average throughput: 333.80 Mbit/s  
95th percentile per-packet one-way delay: 244.284 ms  
Loss rate: 4.17%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-17 18:07:23

End at: 2019-01-17 18:07:53

Local clock offset: -0.498 ms

Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2019-01-17 20:47:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 308.75 Mbit/s

95th percentile per-packet one-way delay: 236.837 ms

Loss rate: 2.43%

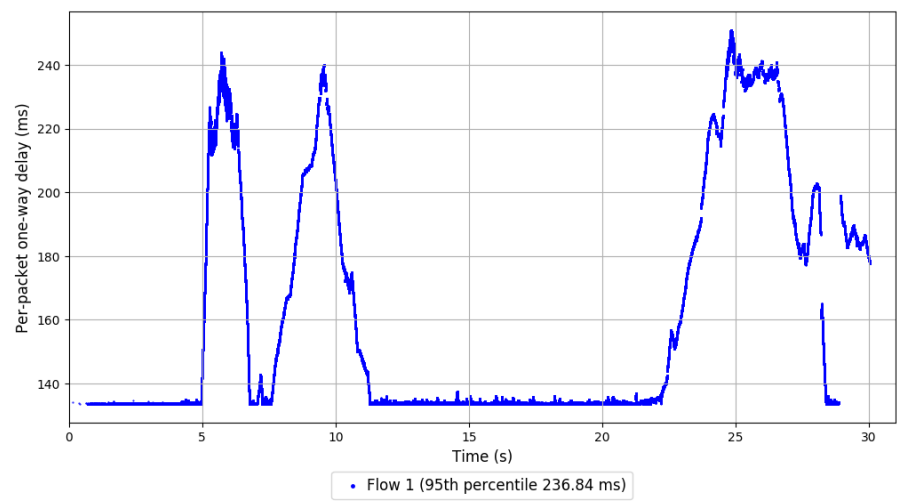
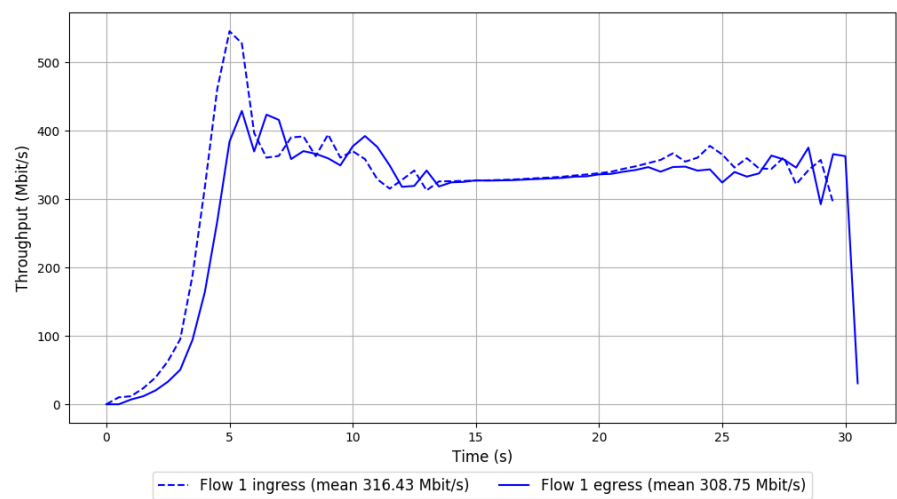
-- Flow 1:

Average throughput: 308.75 Mbit/s

95th percentile per-packet one-way delay: 236.837 ms

Loss rate: 2.43%

Run 3: Report of PCC-Expr — Data Link

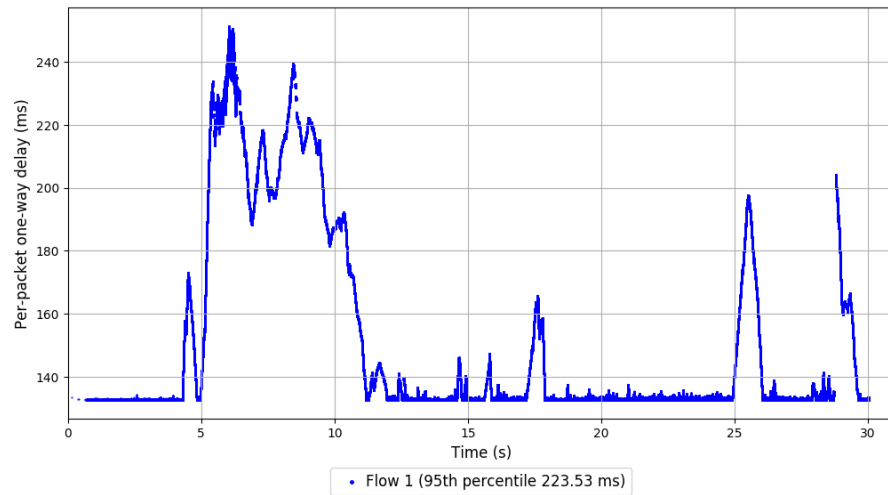
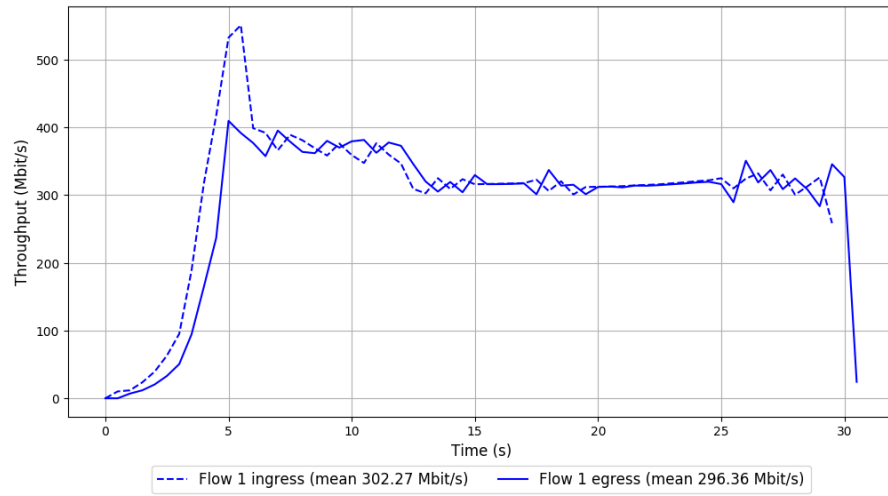


Run 4: Statistics of PCC-Expr

Start at: 2019-01-17 18:39:45  
End at: 2019-01-17 18:40:15  
Local clock offset: -0.007 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 296.36 Mbit/s  
95th percentile per-packet one-way delay: 223.533 ms  
Loss rate: 1.96%  
-- Flow 1:  
Average throughput: 296.36 Mbit/s  
95th percentile per-packet one-way delay: 223.533 ms  
Loss rate: 1.96%

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



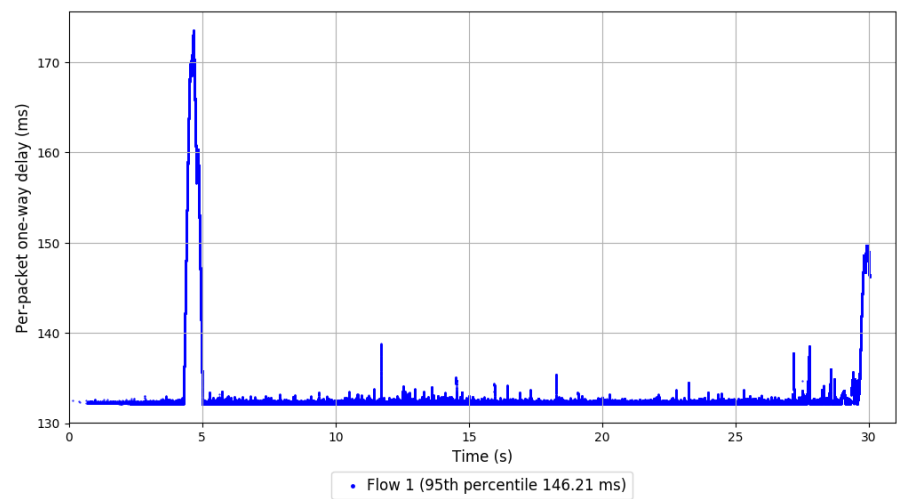
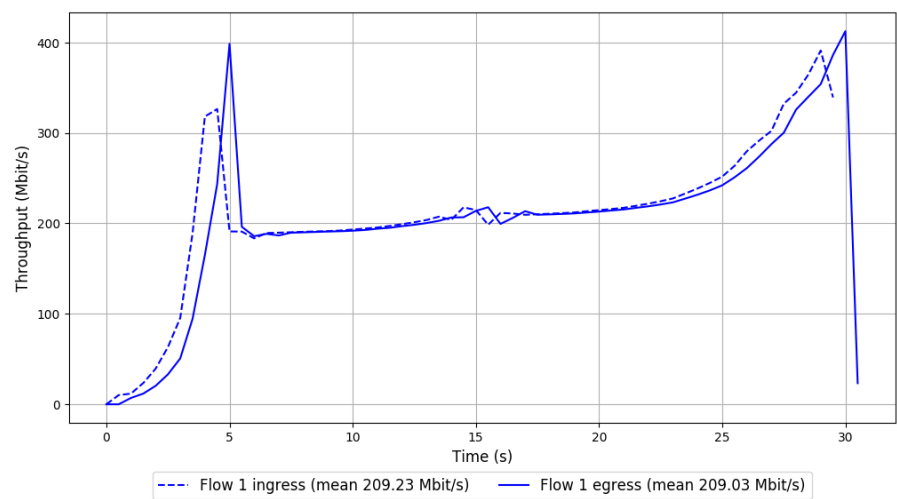


Run 5: Statistics of PCC-Expr

Start at: 2019-01-17 19:13:05  
End at: 2019-01-17 19:13:35  
Local clock offset: 0.123 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 209.03 Mbit/s  
95th percentile per-packet one-way delay: 146.209 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 209.03 Mbit/s  
95th percentile per-packet one-way delay: 146.209 ms  
Loss rate: 0.09%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

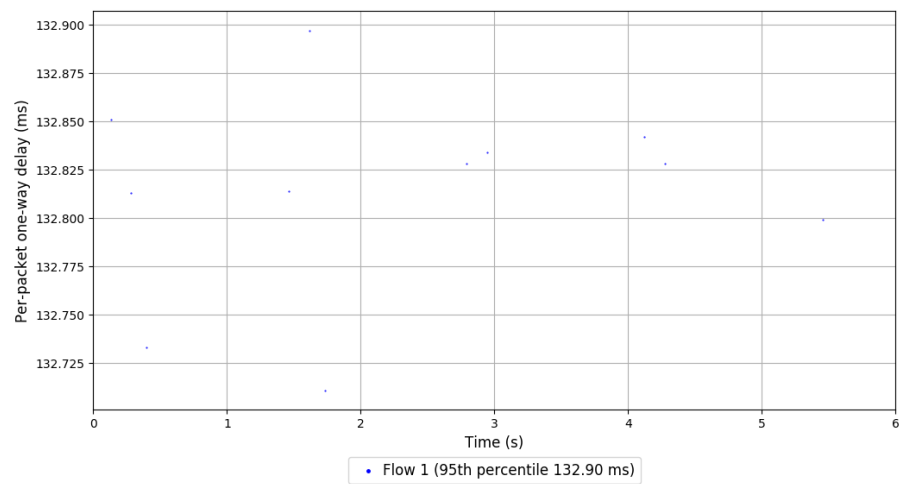
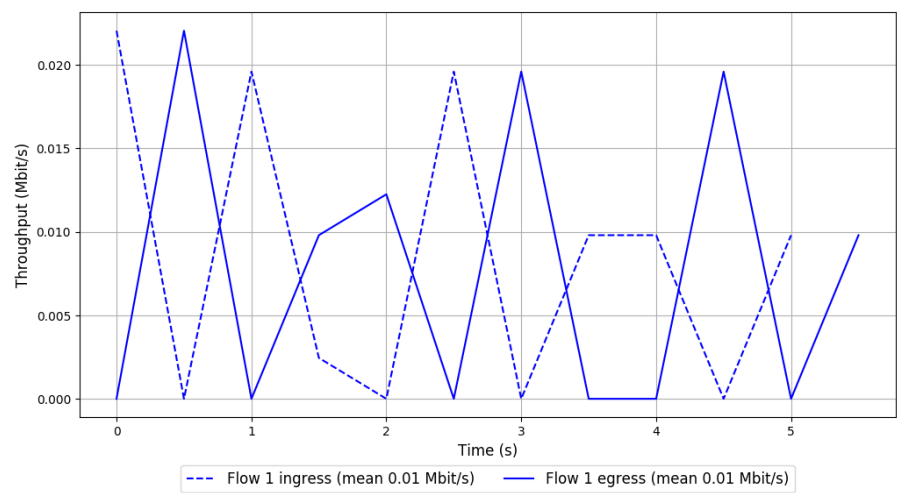
Start at: 2019-01-17 16:42:44

End at: 2019-01-17 16:43:14

Local clock offset: -0.398 ms

Remote clock offset: -0.47 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-17 17:15:27

End at: 2019-01-17 17:15:57

Local clock offset: -0.11 ms

Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2019-01-17 20:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.76 Mbit/s

95th percentile per-packet one-way delay: 133.475 ms

Loss rate: 0.00%

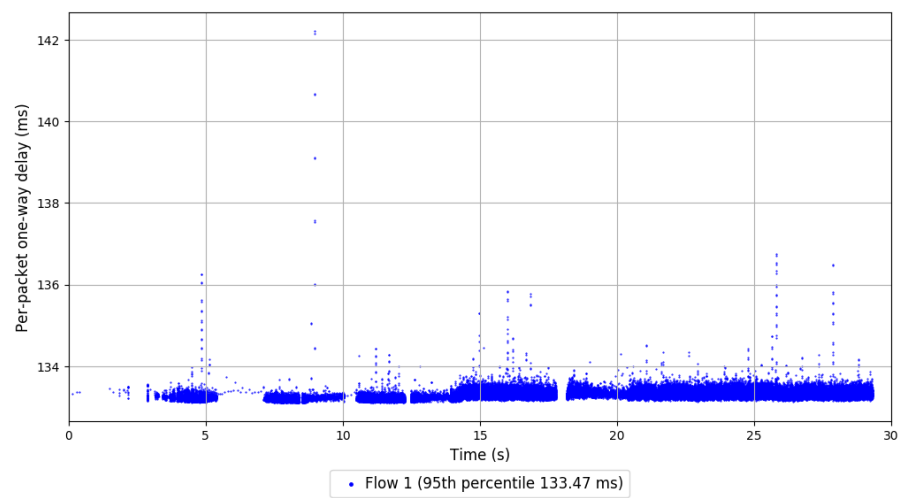
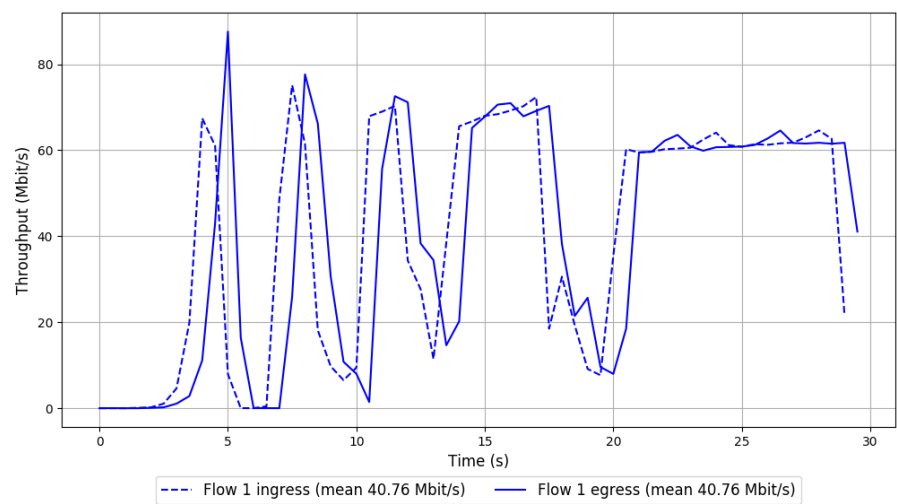
-- Flow 1:

Average throughput: 40.76 Mbit/s

95th percentile per-packet one-way delay: 133.475 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-17 17:51:34

End at: 2019-01-17 17:52:04

Local clock offset: -0.406 ms

Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-01-17 20:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 42.74 Mbit/s

95th percentile per-packet one-way delay: 132.857 ms

Loss rate: 0.00%

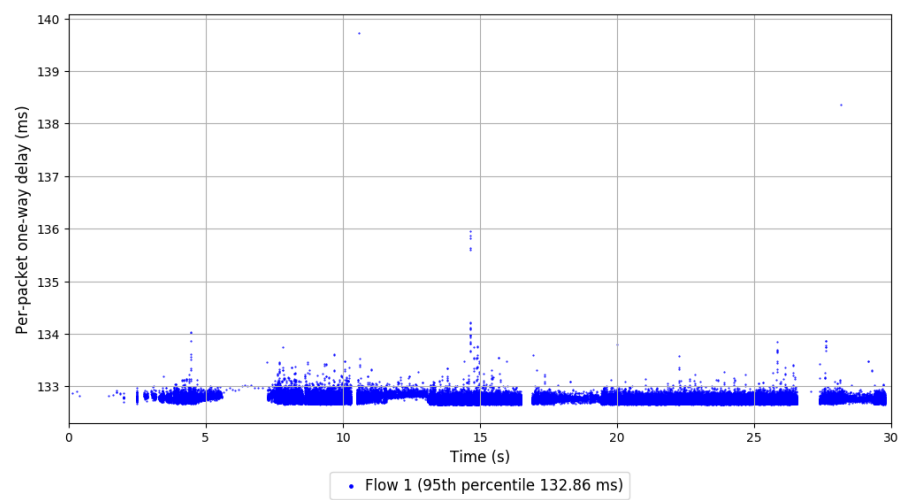
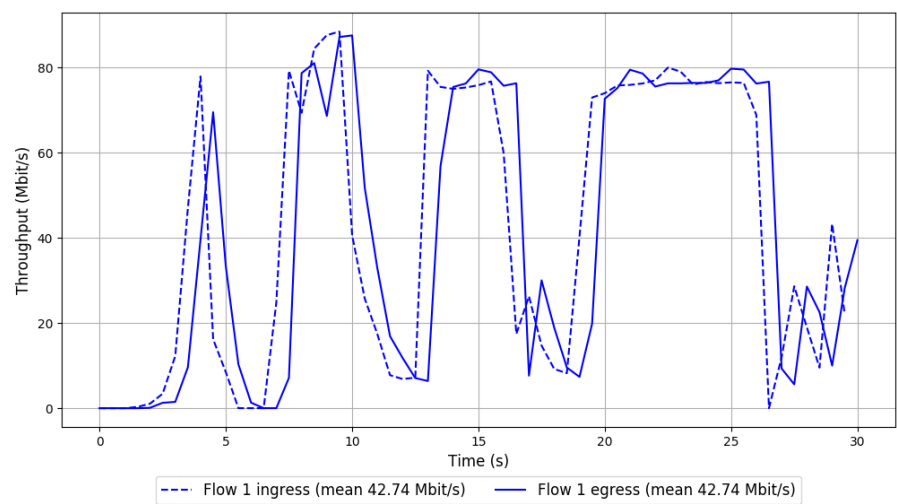
-- Flow 1:

Average throughput: 42.74 Mbit/s

95th percentile per-packet one-way delay: 132.857 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-17 18:24:00

End at: 2019-01-17 18:24:30

Local clock offset: 0.337 ms

Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-17 20:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 132.575 ms

Loss rate: 0.00%

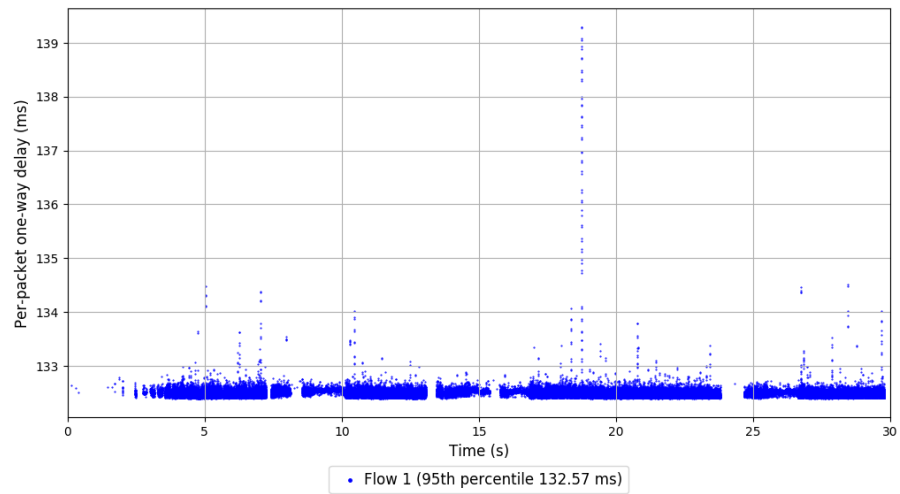
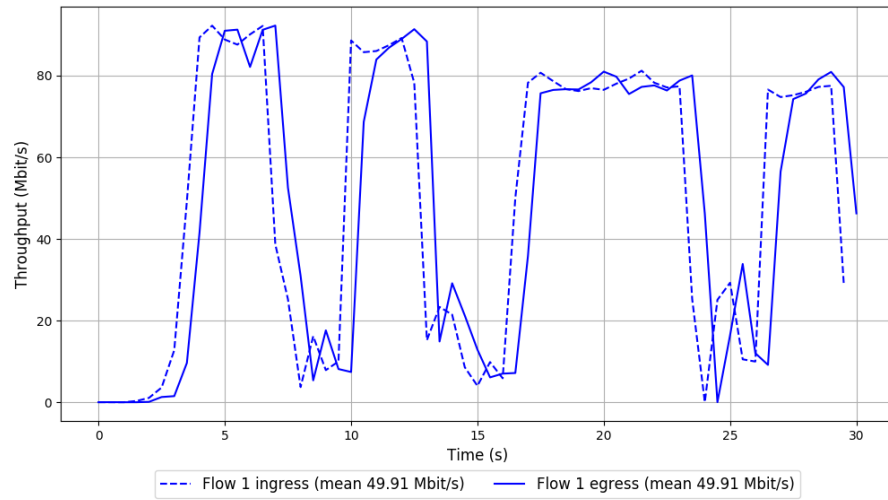
-- Flow 1:

Average throughput: 49.91 Mbit/s

95th percentile per-packet one-way delay: 132.575 ms

Loss rate: 0.00%

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



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-17 18:57:11

End at: 2019-01-17 18:57:41

Local clock offset: -0.245 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-01-17 20:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.90 Mbit/s

95th percentile per-packet one-way delay: 133.126 ms

Loss rate: 0.00%

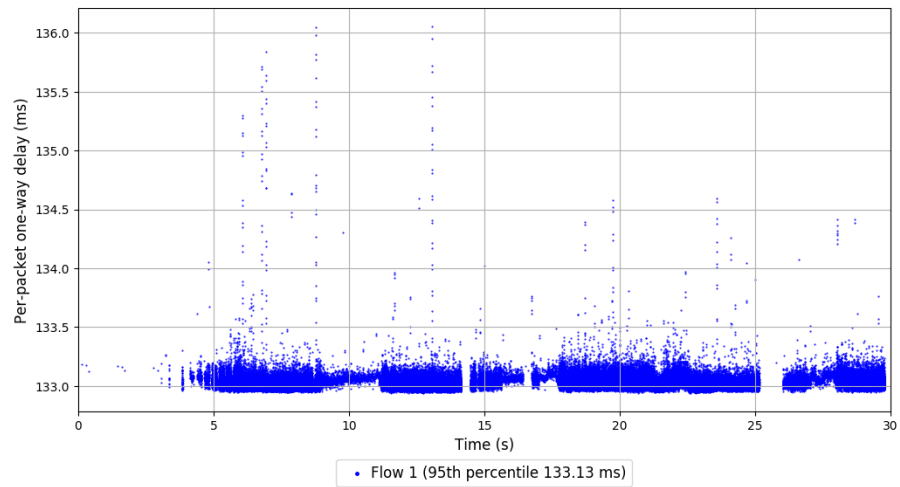
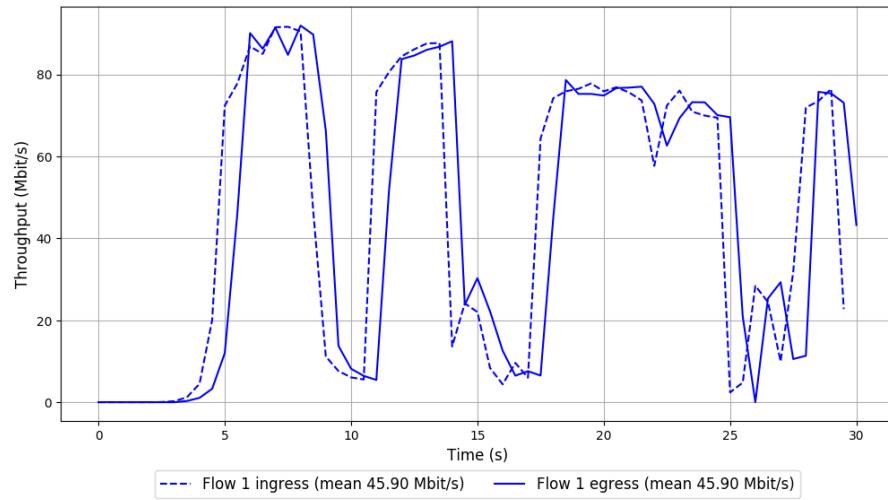
-- Flow 1:

Average throughput: 45.90 Mbit/s

95th percentile per-packet one-way delay: 133.126 ms

Loss rate: 0.00%

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

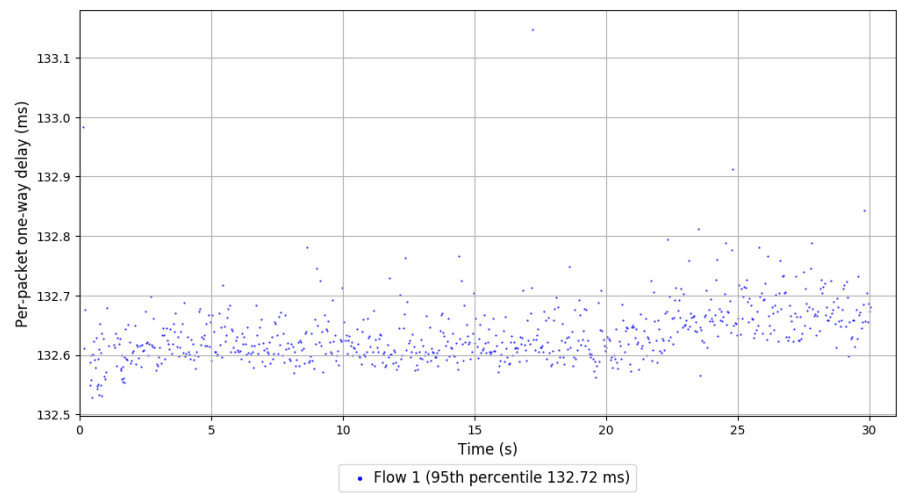
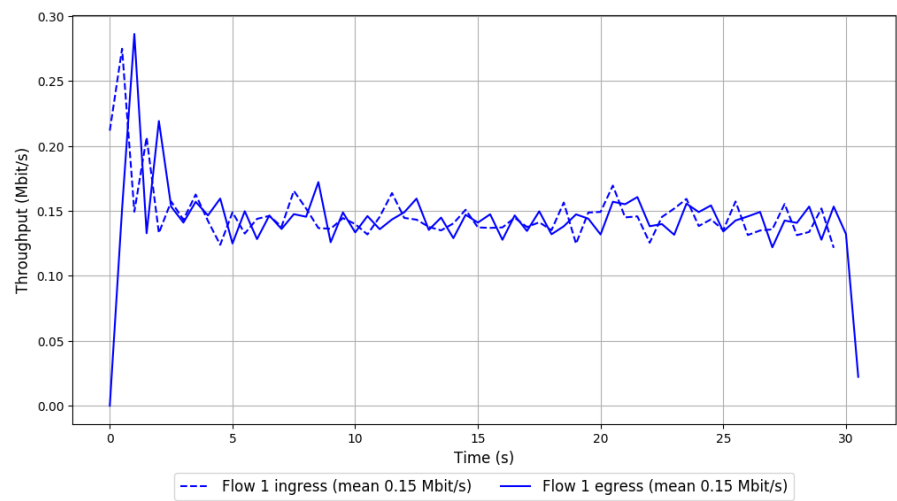


Run 1: Statistics of SCReAM

Start at: 2019-01-17 16:46:48  
End at: 2019-01-17 16:47:18  
Local clock offset: 0.311 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.717 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.717 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

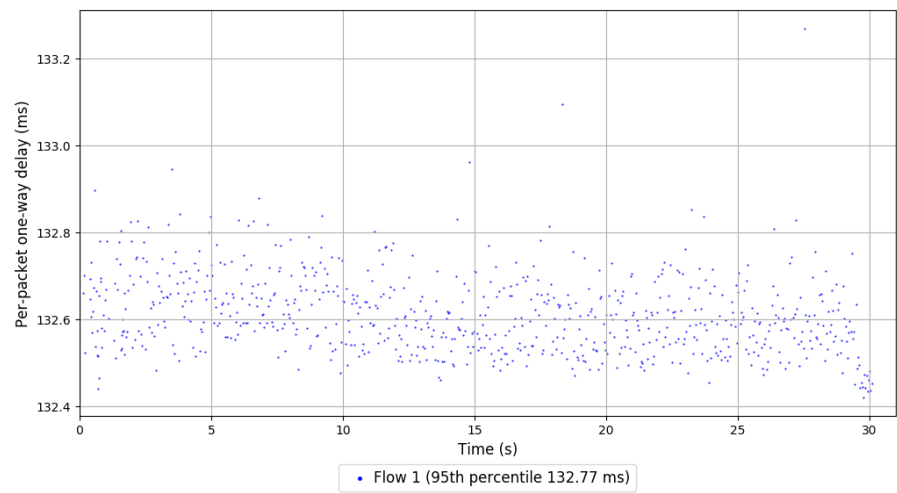
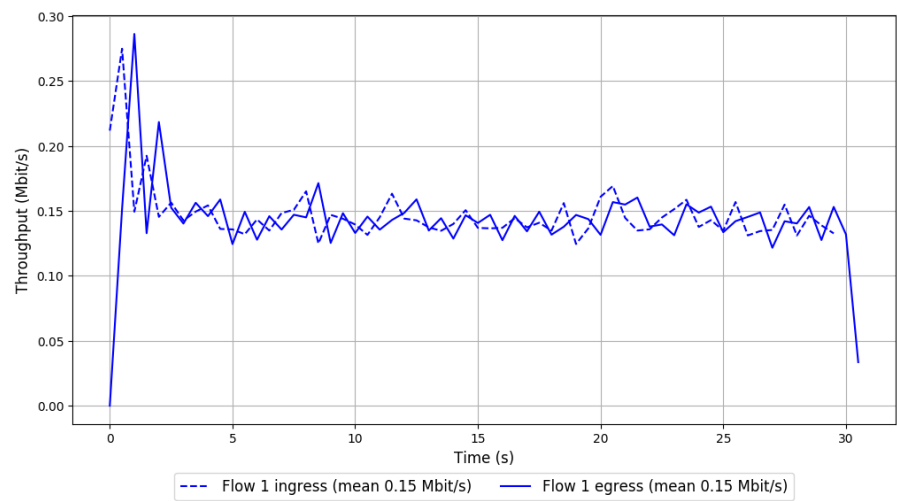


Run 2: Statistics of SCReAM

Start at: 2019-01-17 17:20:32  
End at: 2019-01-17 17:21:02  
Local clock offset: 0.034 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.769 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.769 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



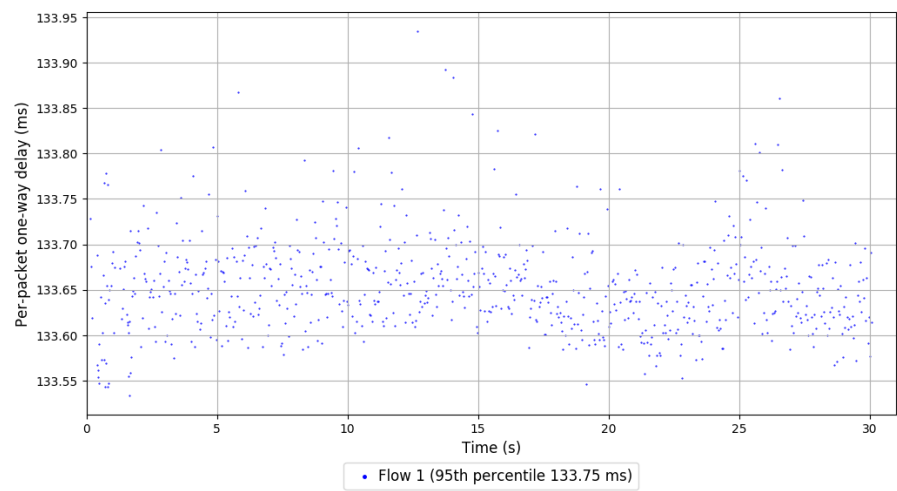
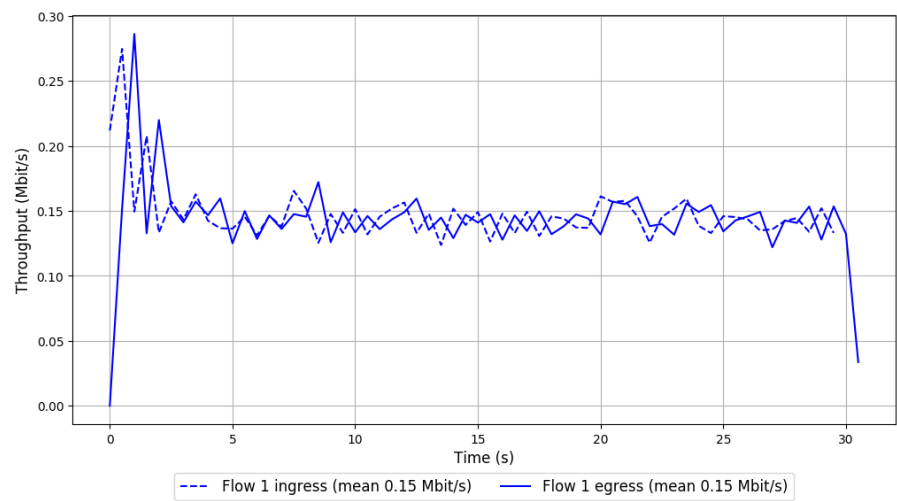


Run 3: Statistics of SCReAM

Start at: 2019-01-17 17:56:37  
End at: 2019-01-17 17:57:07  
Local clock offset: -0.098 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.748 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.748 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

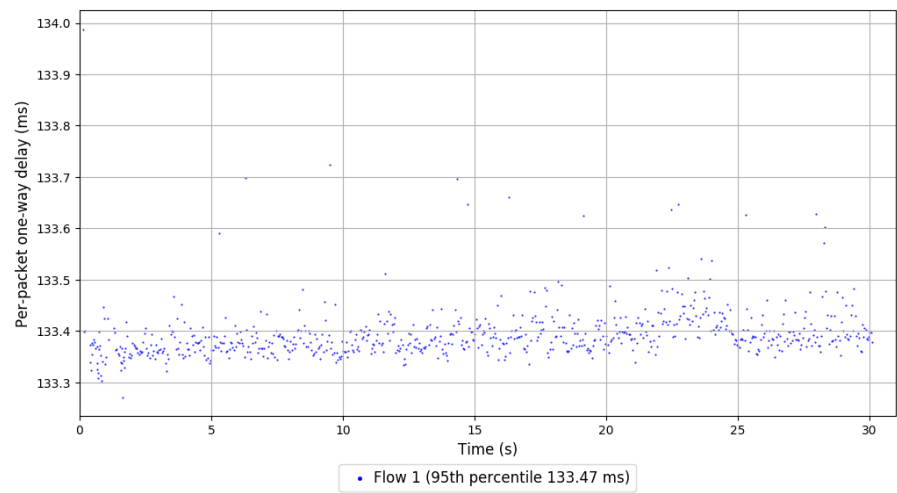
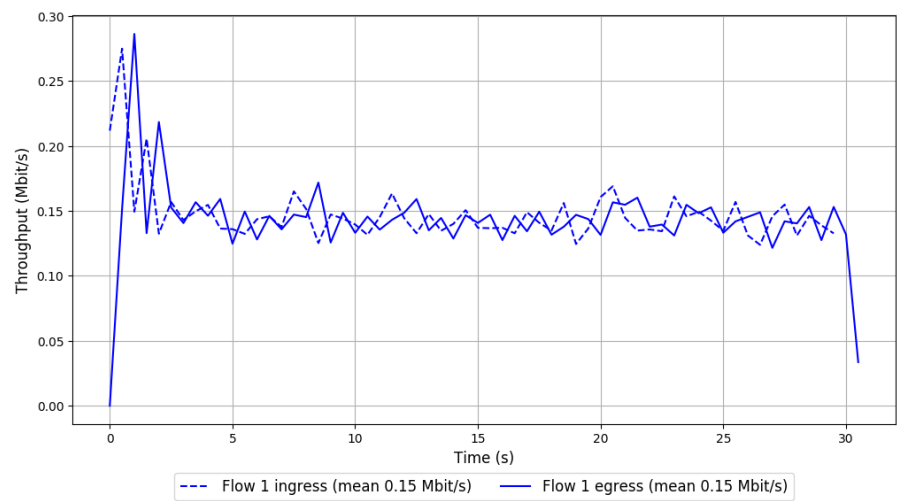


Run 4: Statistics of SCReAM

Start at: 2019-01-17 18:28:33  
End at: 2019-01-17 18:29:03  
Local clock offset: -0.449 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.475 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.475 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

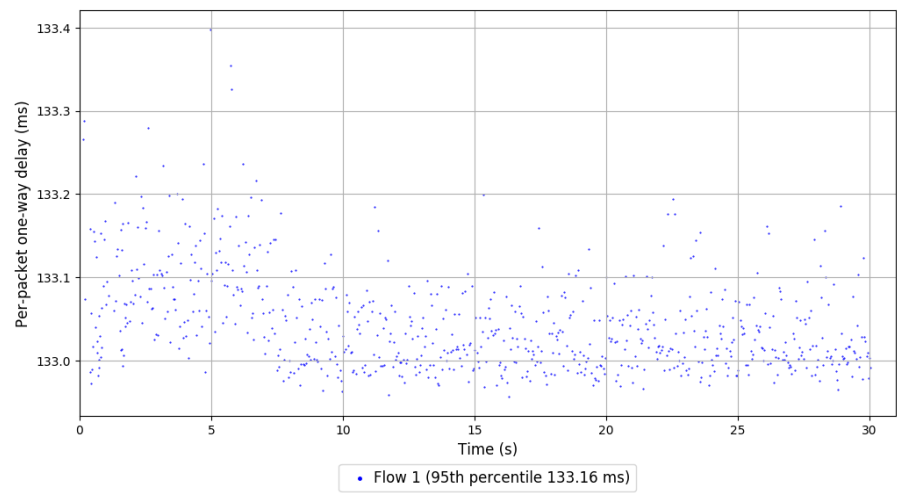
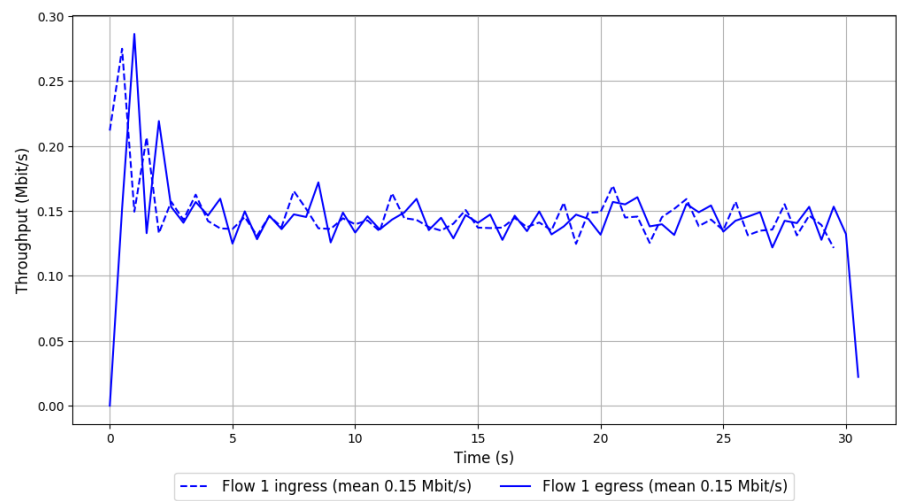


Run 5: Statistics of SCReAM

Start at: 2019-01-17 19:01:59  
End at: 2019-01-17 19:02:29  
Local clock offset: -0.511 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.161 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.161 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-17 16:38:18

End at: 2019-01-17 16:38:48

Local clock offset: -0.363 ms

Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2019-01-17 20:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 133.833 ms

Loss rate: 0.00%

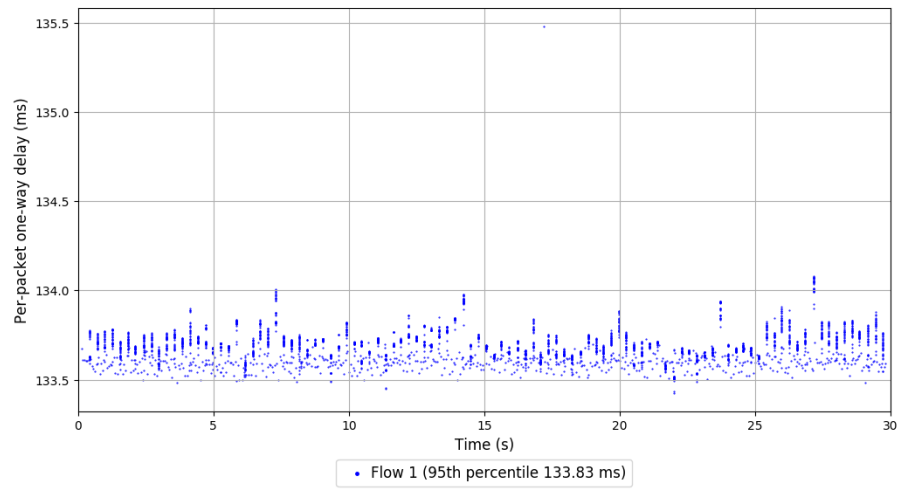
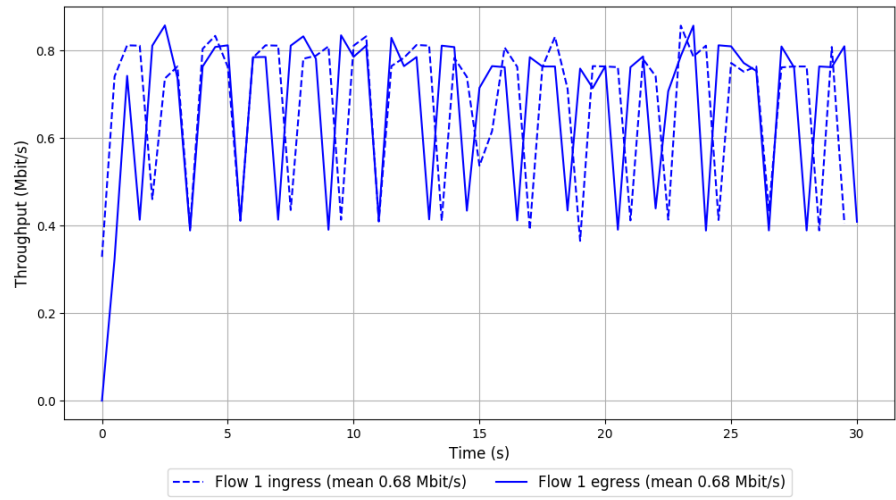
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 133.833 ms

Loss rate: 0.00%

# Run 1: Report of Sprout — Data Link



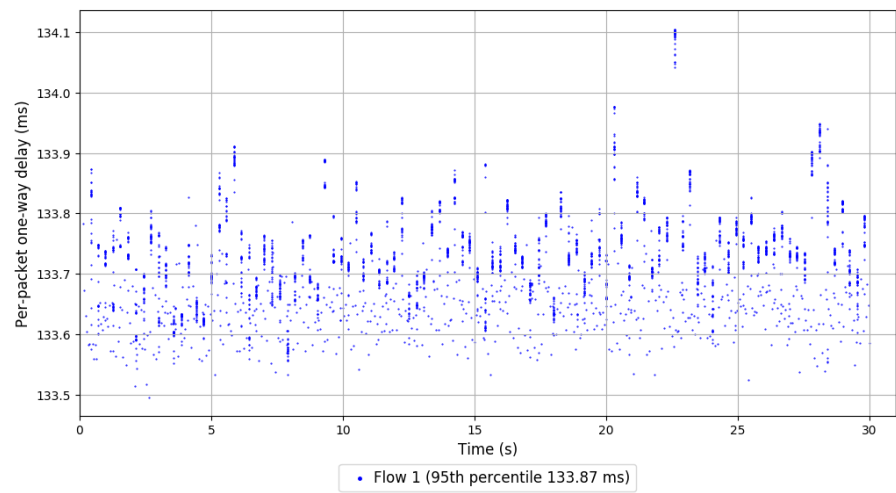
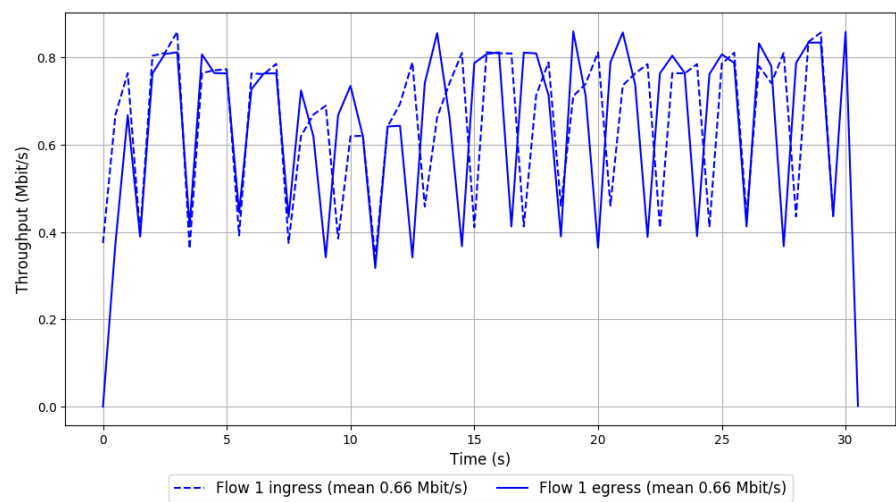


Run 2: Statistics of Sprout

Start at: 2019-01-17 17:10:26  
End at: 2019-01-17 17:10:56  
Local clock offset: -0.136 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 133.865 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 133.865 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

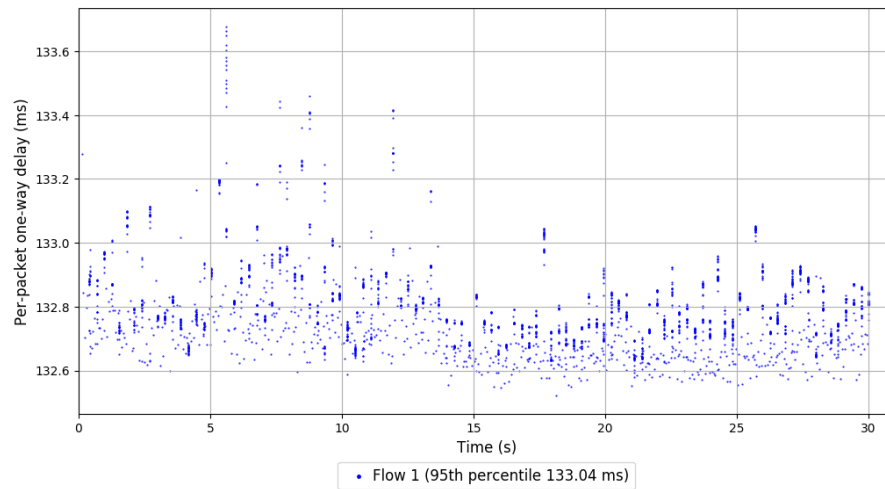
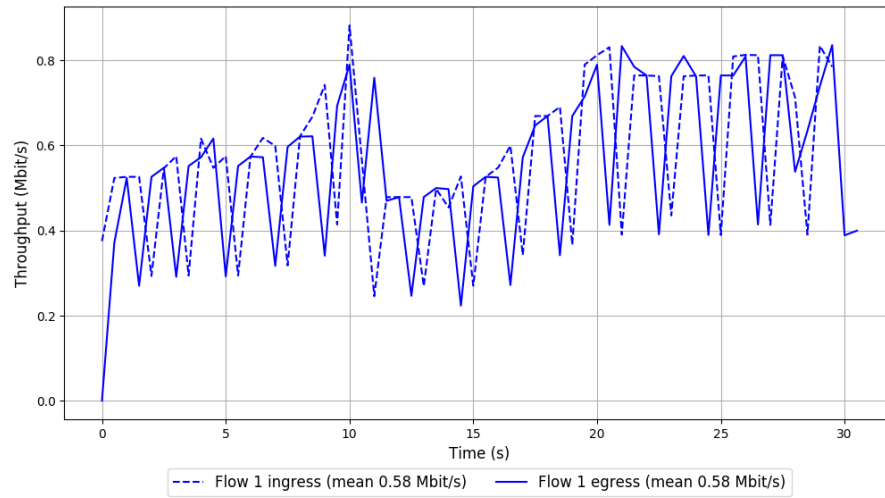


Run 3: Statistics of Sprout

Start at: 2019-01-17 17:46:41  
End at: 2019-01-17 17:47:11  
Local clock offset: 0.326 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 133.043 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 133.043 ms  
Loss rate: 0.00%

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

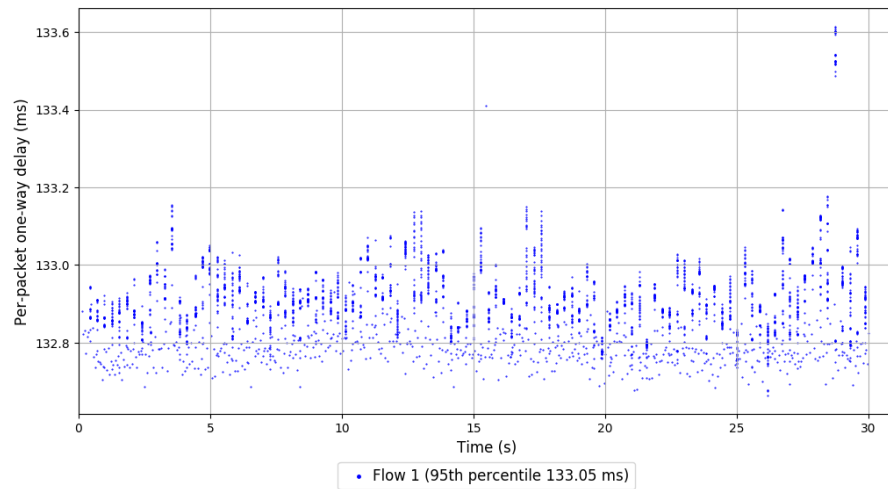
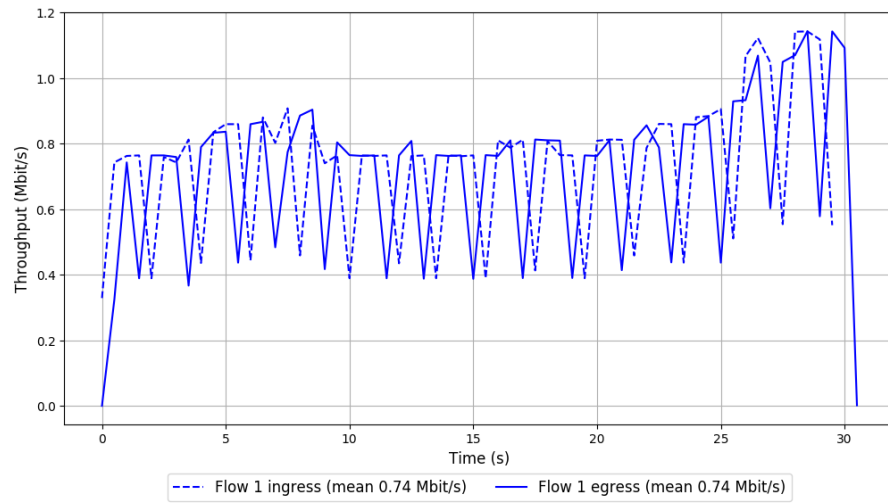


Run 4: Statistics of Sprout

Start at: 2019-01-17 18:19:34  
End at: 2019-01-17 18:20:04  
Local clock offset: 0.095 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.74 Mbit/s  
95th percentile per-packet one-way delay: 133.053 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.74 Mbit/s  
95th percentile per-packet one-way delay: 133.053 ms  
Loss rate: 0.00%

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

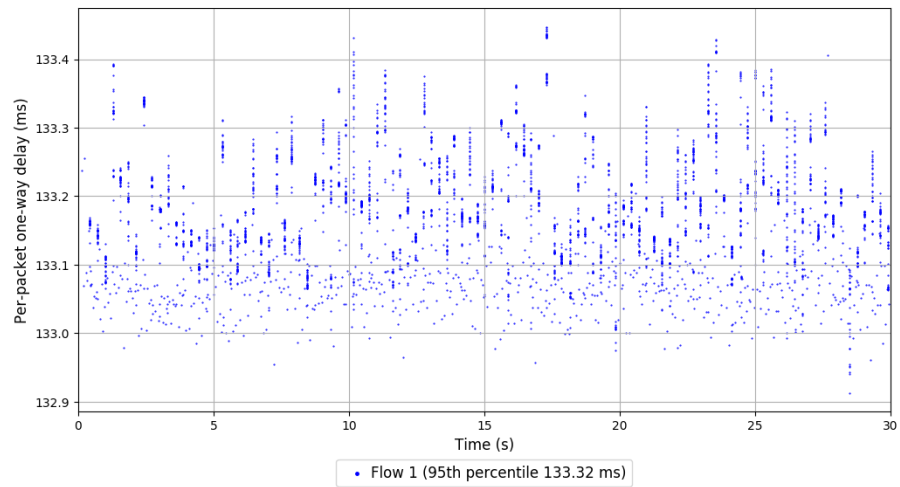
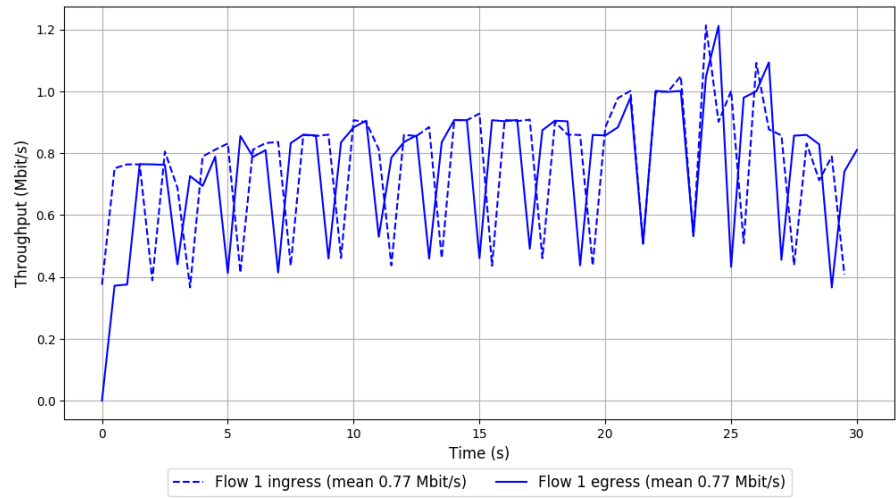


Run 5: Statistics of Sprout

Start at: 2019-01-17 18:52:35  
End at: 2019-01-17 18:53:05  
Local clock offset: -0.229 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-01-17 20:49:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.77 Mbit/s  
95th percentile per-packet one-way delay: 133.325 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.77 Mbit/s  
95th percentile per-packet one-way delay: 133.325 ms  
Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2019-01-17 16:43:54

End at: 2019-01-17 16:44:24

Local clock offset: -0.281 ms

Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-01-17 20:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 133.123 ms

Loss rate: 0.00%

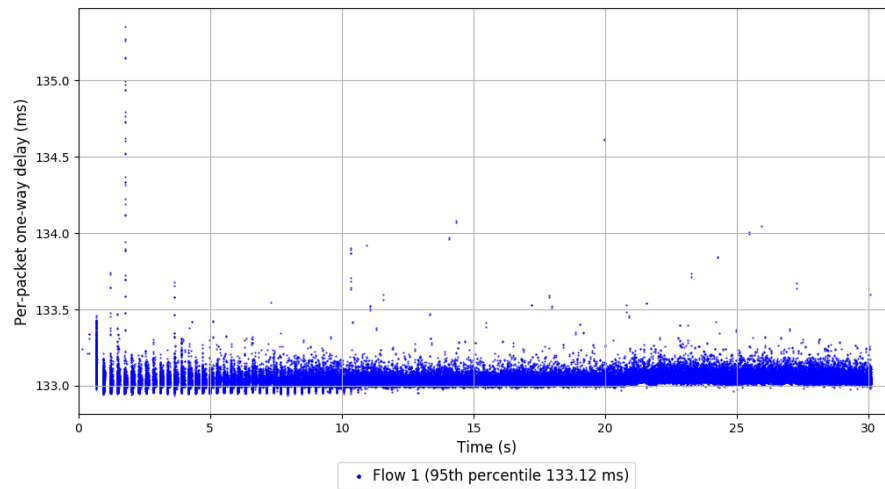
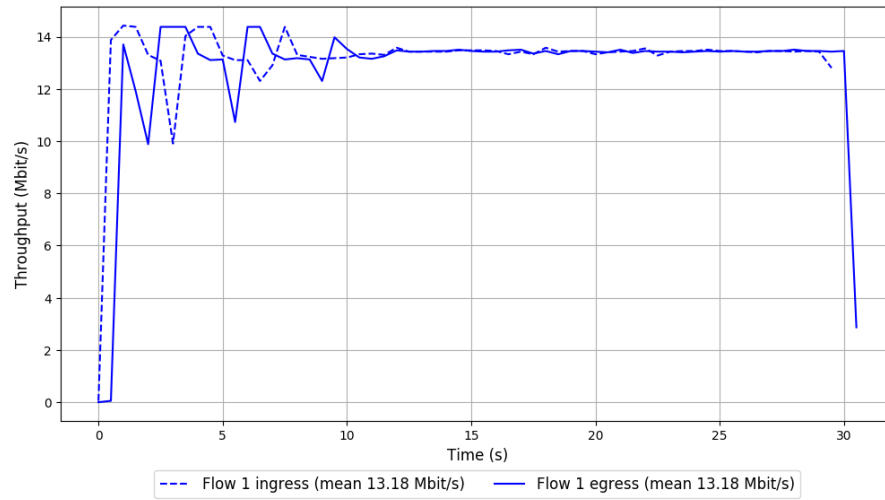
-- Flow 1:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 133.123 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-17 17:16:42

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

Local clock offset: 0.148 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-01-17 20:51:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 195.50 Mbit/s

95th percentile per-packet one-way delay: 133.023 ms

Loss rate: 0.00%

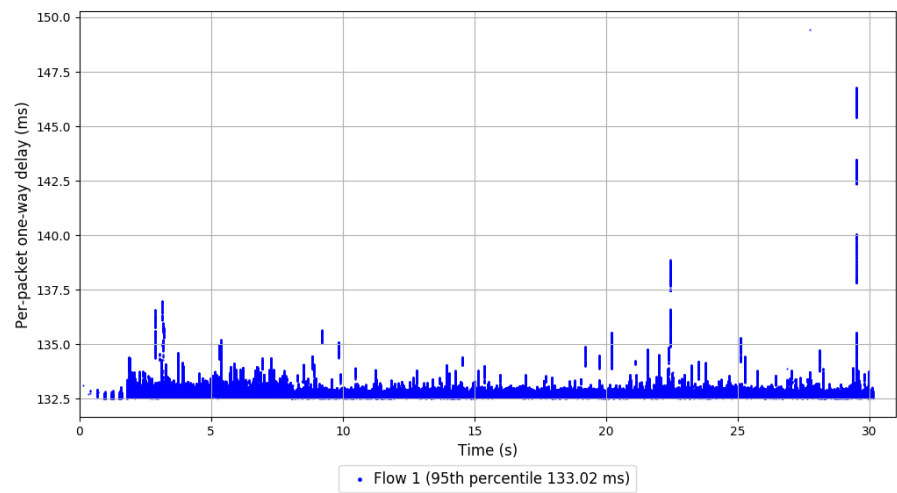
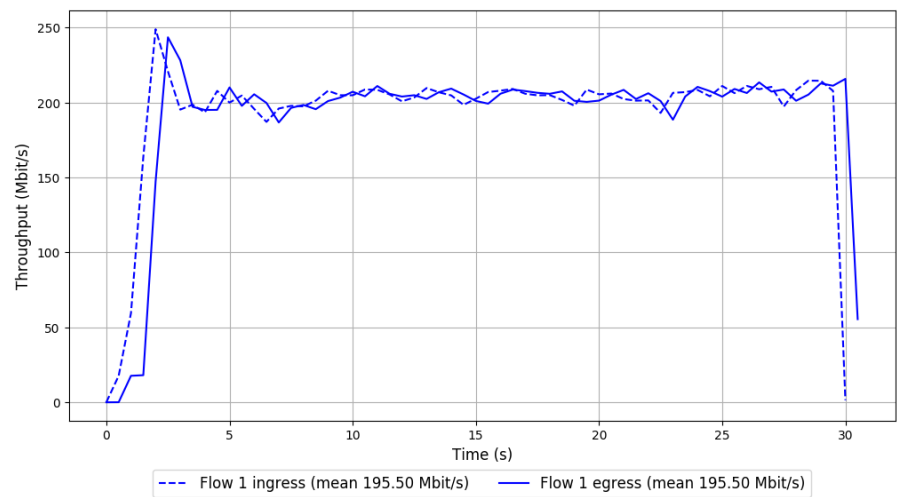
-- Flow 1:

Average throughput: 195.50 Mbit/s

95th percentile per-packet one-way delay: 133.023 ms

Loss rate: 0.00%

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

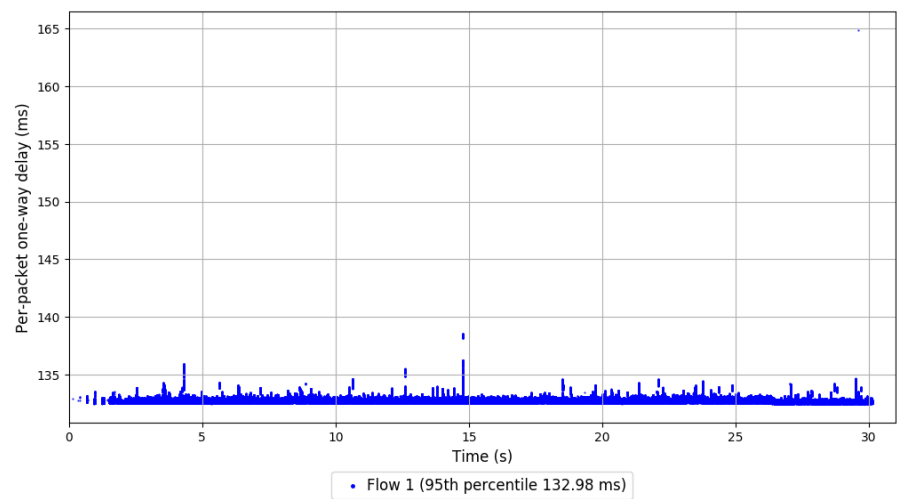
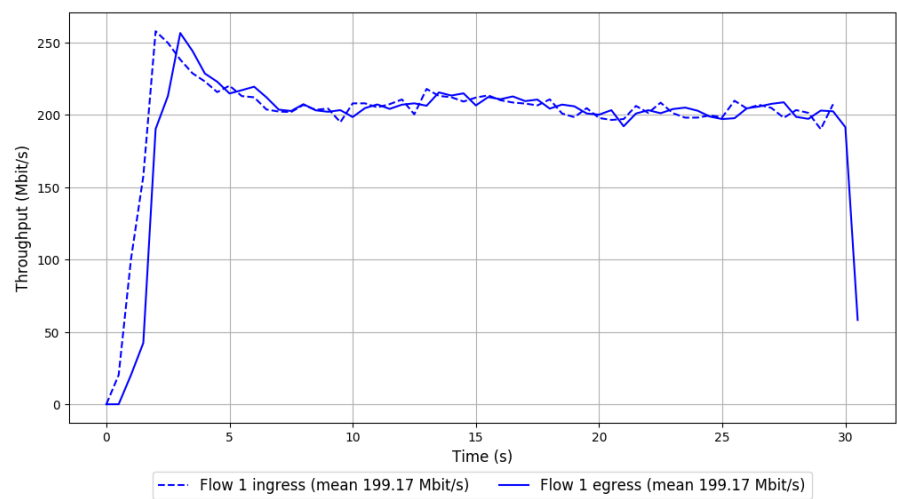


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-17 17:52:49  
End at: 2019-01-17 17:53:20  
Local clock offset: 0.183 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-01-17 20:51:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 199.17 Mbit/s  
95th percentile per-packet one-way delay: 132.977 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 199.17 Mbit/s  
95th percentile per-packet one-way delay: 132.977 ms  
Loss rate: 0.00%

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

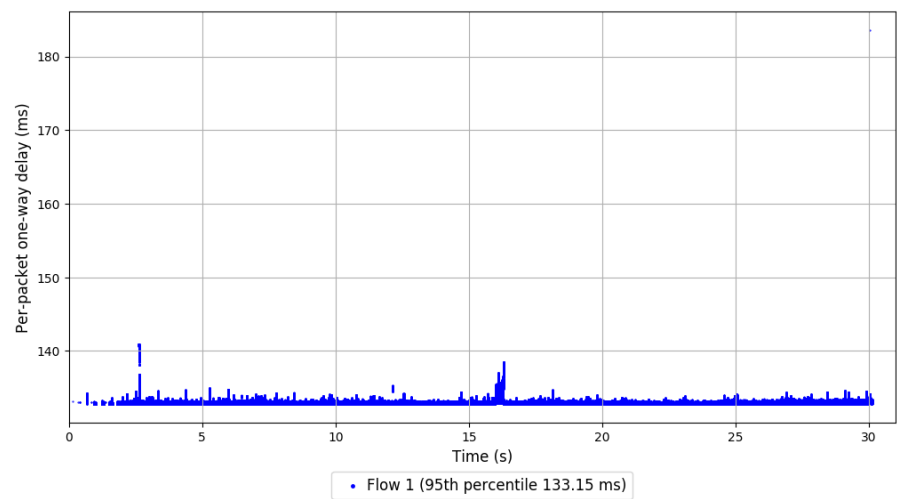
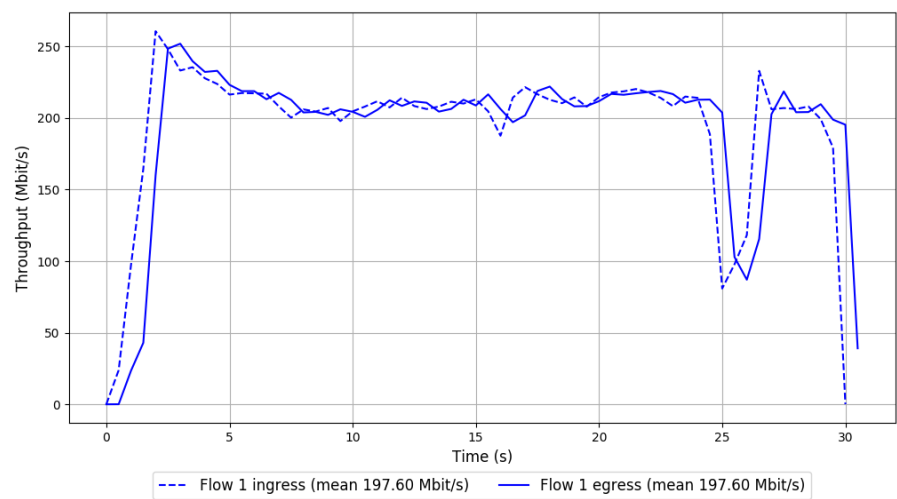


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-17 18:25:14  
End at: 2019-01-17 18:25:44  
Local clock offset: -0.057 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-17 20:51:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 197.60 Mbit/s  
95th percentile per-packet one-way delay: 133.153 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 197.60 Mbit/s  
95th percentile per-packet one-way delay: 133.153 ms  
Loss rate: 0.00%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-17 18:58:26

End at: 2019-01-17 18:58:56

Local clock offset: -0.07 ms

Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2019-01-17 20:51:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 190.97 Mbit/s

95th percentile per-packet one-way delay: 133.177 ms

Loss rate: 0.00%

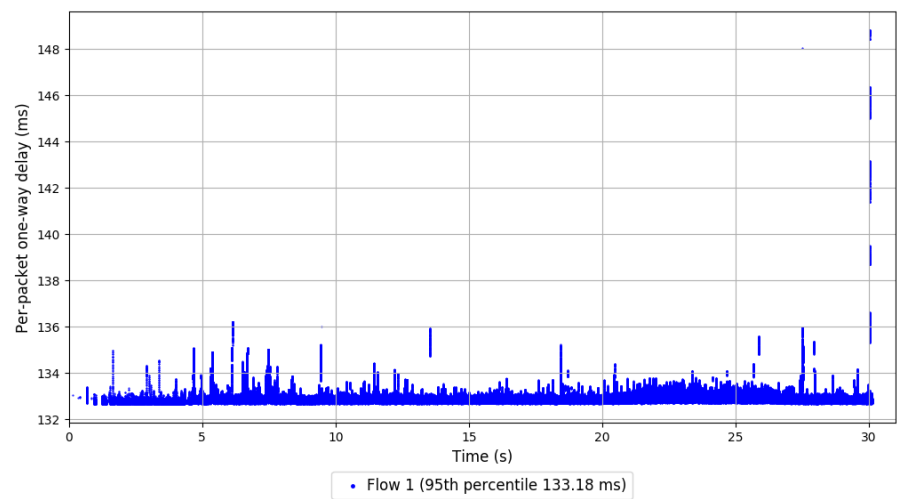
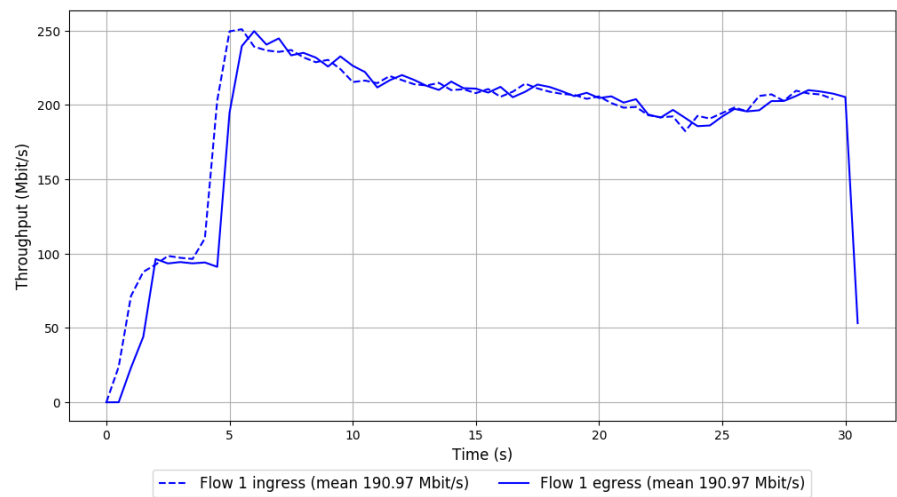
-- Flow 1:

Average throughput: 190.97 Mbit/s

95th percentile per-packet one-way delay: 133.177 ms

Loss rate: 0.00%

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

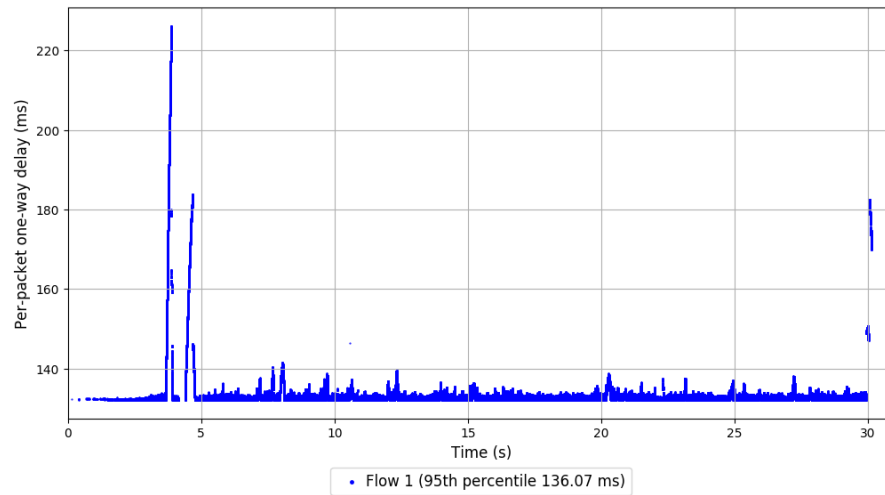
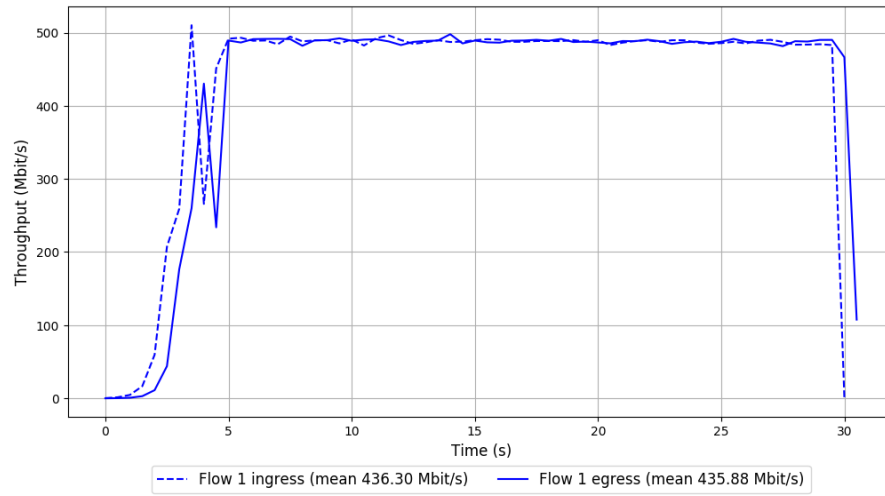


Run 1: Statistics of TCP Vegas

Start at: 2019-01-17 16:47:58  
End at: 2019-01-17 16:48:28  
Local clock offset: 0.147 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-17 20:54:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 435.88 Mbit/s  
95th percentile per-packet one-way delay: 136.068 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 435.88 Mbit/s  
95th percentile per-packet one-way delay: 136.068 ms  
Loss rate: 0.11%

# Run 1: Report of TCP Vegas — Data Link

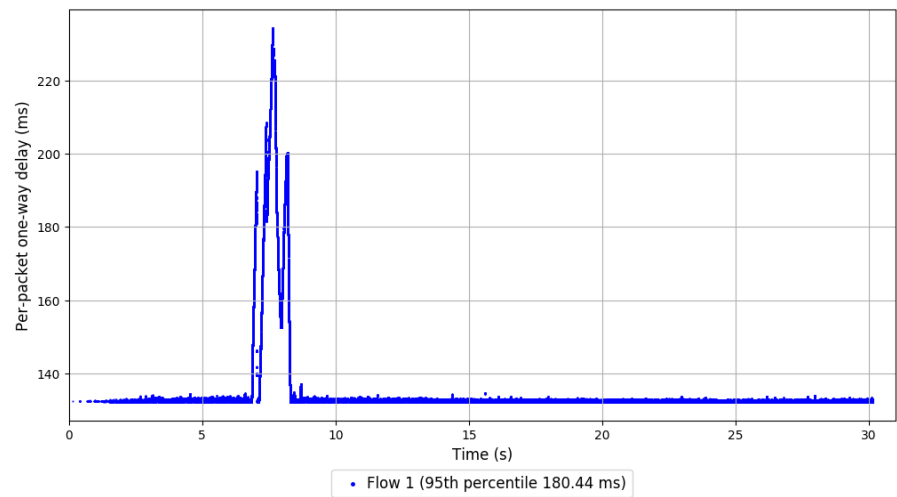
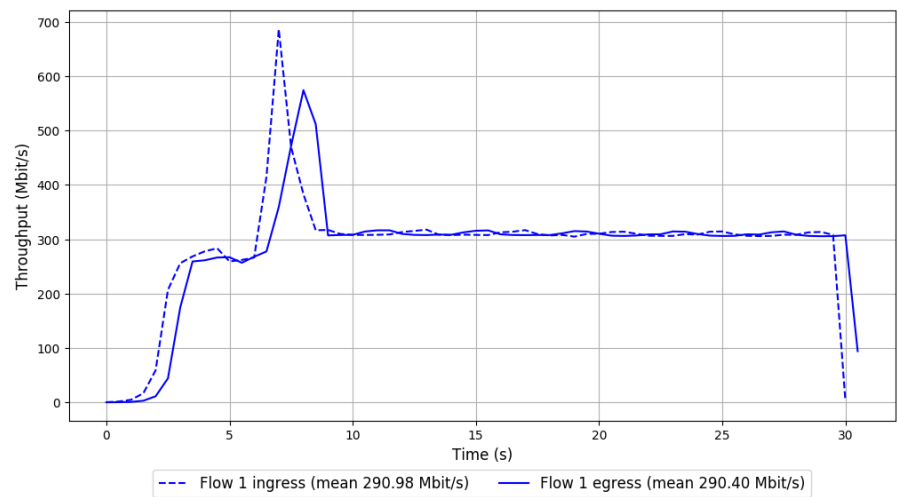


Run 2: Statistics of TCP Vegas

Start at: 2019-01-17 17:21:43  
End at: 2019-01-17 17:22:13  
Local clock offset: 0.076 ms  
Remote clock offset: -0.455 ms

# Below is generated by plot.py at 2019-01-17 20:54:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 290.40 Mbit/s  
95th percentile per-packet one-way delay: 180.439 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 290.40 Mbit/s  
95th percentile per-packet one-way delay: 180.439 ms  
Loss rate: 0.20%

Run 2: Report of TCP Vegas — Data Link

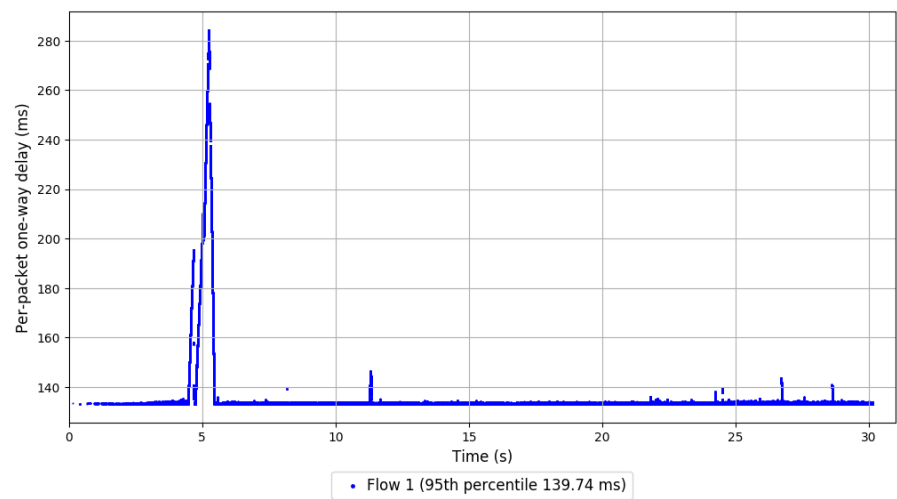
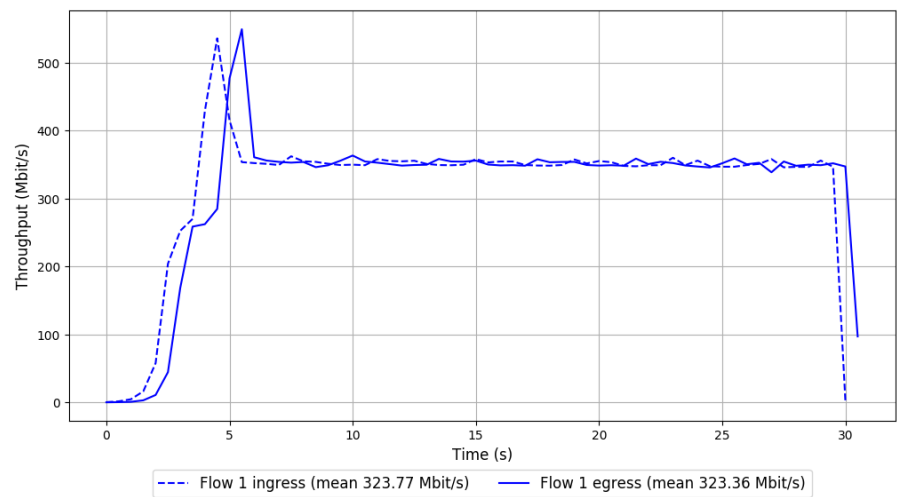


Run 3: Statistics of TCP Vegas

Start at: 2019-01-17 17:57:47  
End at: 2019-01-17 17:58:17  
Local clock offset: -0.334 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-01-17 20:54:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 323.36 Mbit/s  
95th percentile per-packet one-way delay: 139.744 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 323.36 Mbit/s  
95th percentile per-packet one-way delay: 139.744 ms  
Loss rate: 0.13%

Run 3: Report of TCP Vegas — Data Link





Run 4: Statistics of TCP Vegas

Start at: 2019-01-17 18:29:43

End at: 2019-01-17 18:30:13

Local clock offset: -0.283 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-01-17 20:57:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 405.25 Mbit/s

95th percentile per-packet one-way delay: 150.905 ms

Loss rate: 0.00%

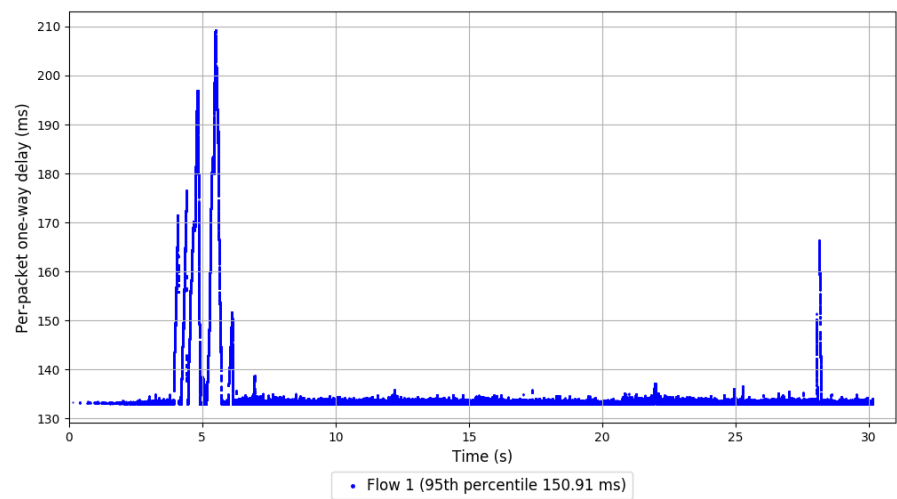
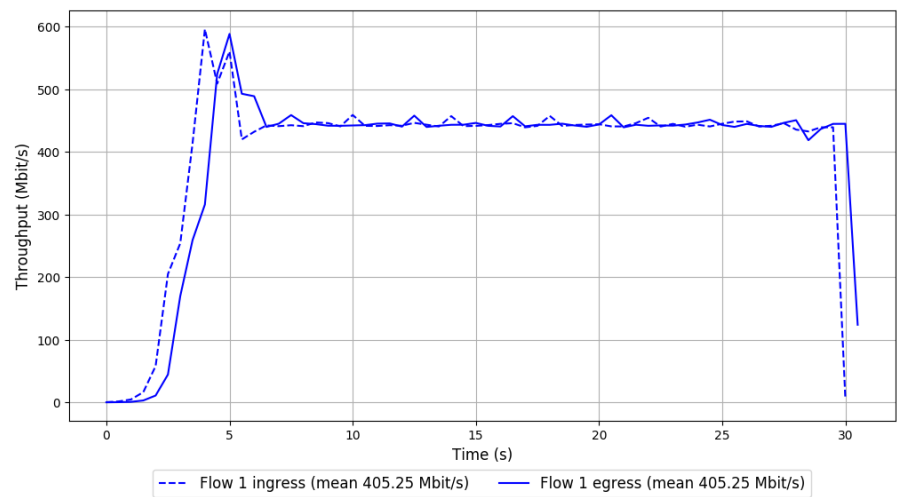
-- Flow 1:

Average throughput: 405.25 Mbit/s

95th percentile per-packet one-way delay: 150.905 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

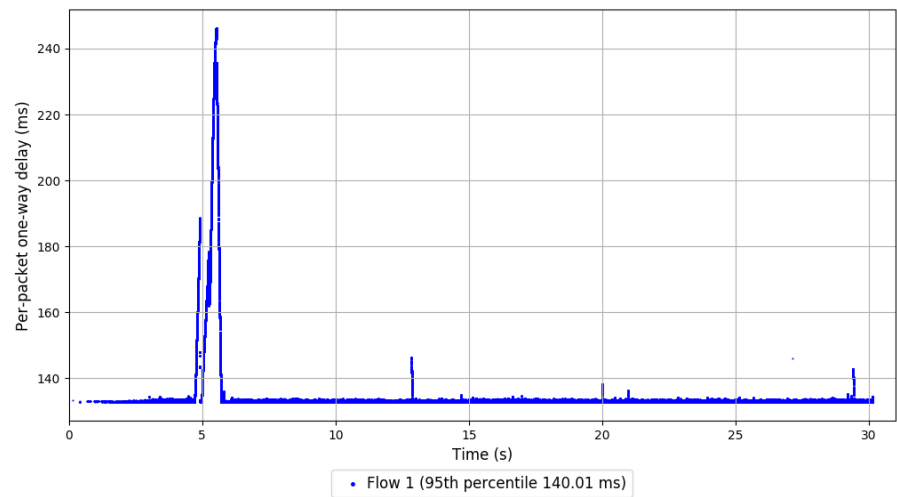
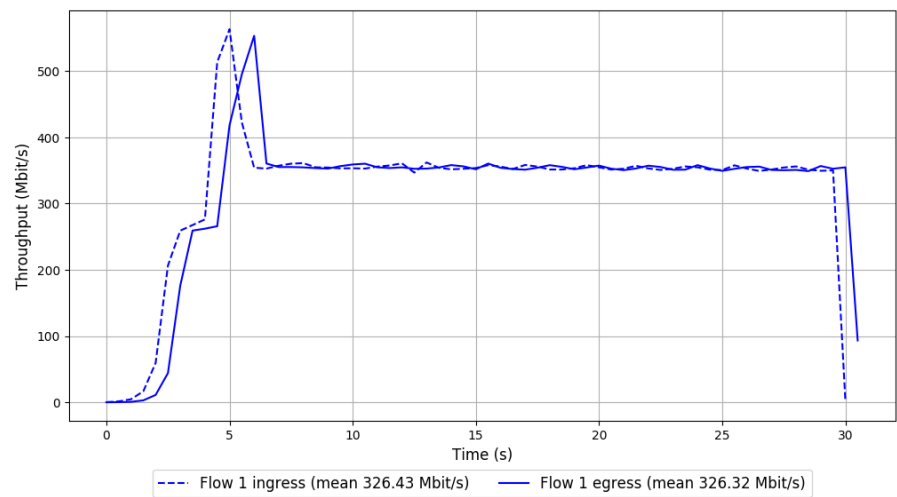


Run 5: Statistics of TCP Vegas

Start at: 2019-01-17 19:03:09  
End at: 2019-01-17 19:03:39  
Local clock offset: -0.147 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-17 20:57:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 326.32 Mbit/s  
95th percentile per-packet one-way delay: 140.014 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 326.32 Mbit/s  
95th percentile per-packet one-way delay: 140.014 ms  
Loss rate: 0.03%

Run 5: Report of TCP Vegas — Data Link

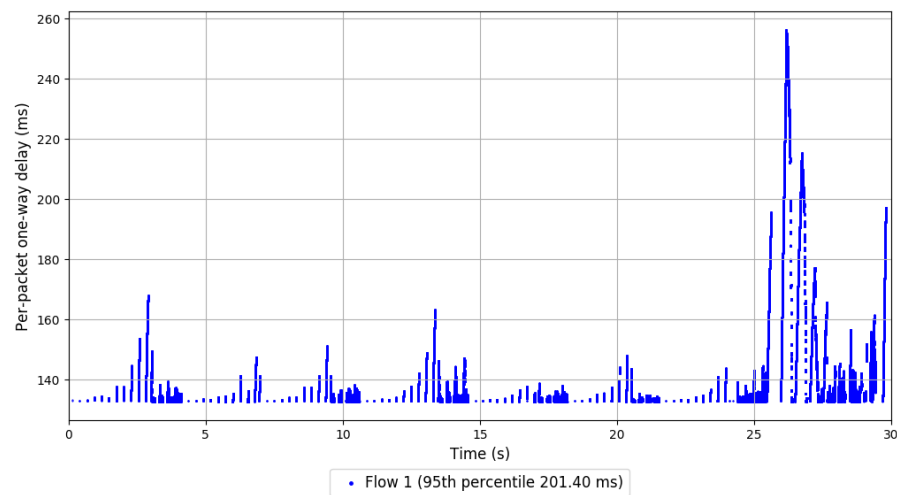
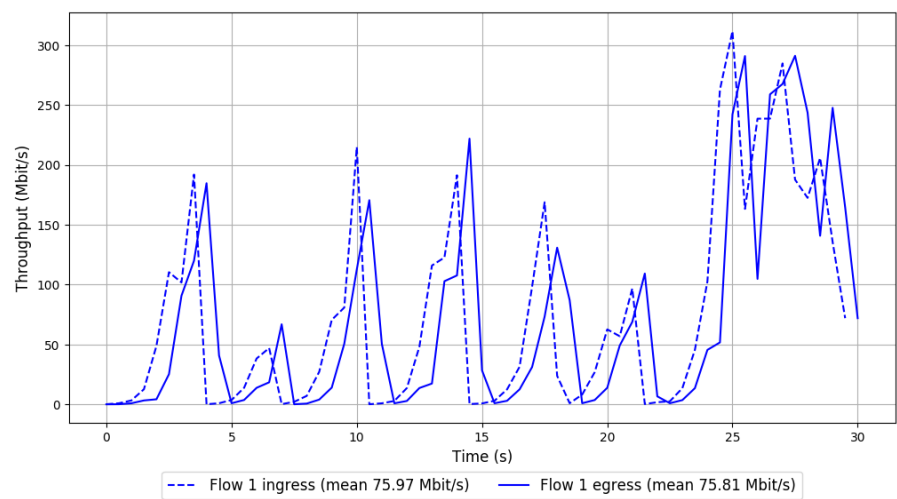


Run 1: Statistics of Verus

Start at: 2019-01-17 16:56:40  
End at: 2019-01-17 16:57:10  
Local clock offset: -0.122 ms  
Remote clock offset: -0.462 ms

# Below is generated by plot.py at 2019-01-17 20:57:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.81 Mbit/s  
95th percentile per-packet one-way delay: 201.400 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 75.81 Mbit/s  
95th percentile per-packet one-way delay: 201.400 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

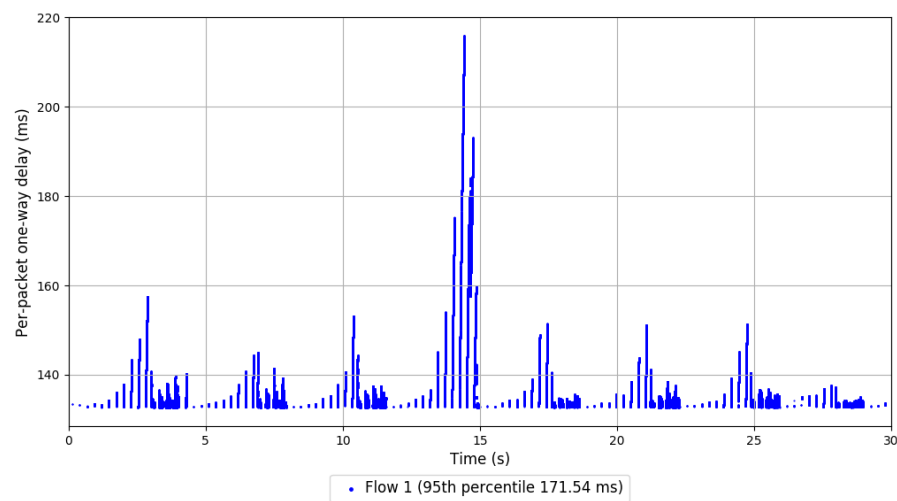
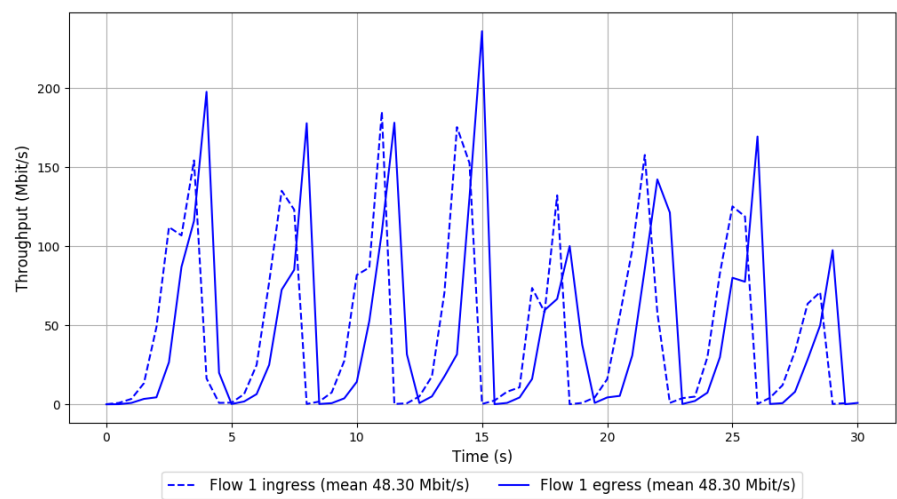


Run 2: Statistics of Verus

Start at: 2019-01-17 17:30:31  
End at: 2019-01-17 17:31:01  
Local clock offset: 0.293 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-17 20:57:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 48.30 Mbit/s  
95th percentile per-packet one-way delay: 171.539 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 48.30 Mbit/s  
95th percentile per-packet one-way delay: 171.539 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-01-17 18:06:05

End at: 2019-01-17 18:06:35

Local clock offset: 0.072 ms

Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2019-01-17 20:57:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 145.602 ms

Loss rate: 0.49%

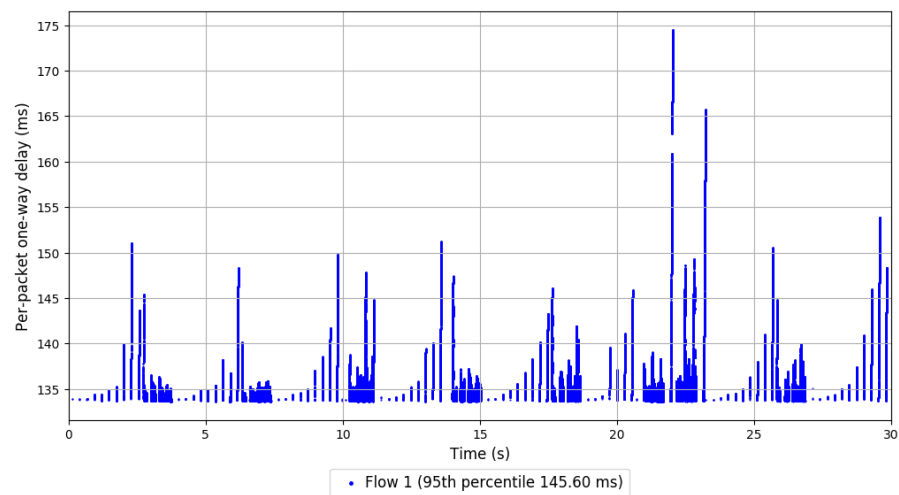
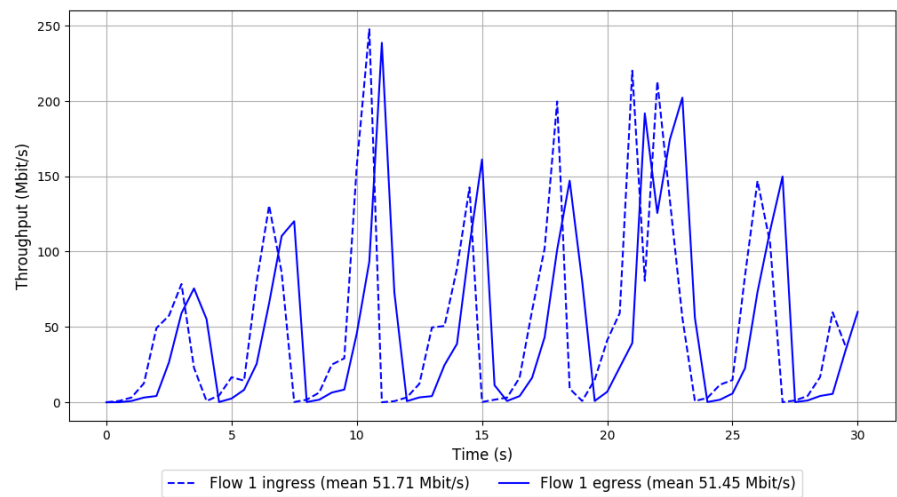
-- Flow 1:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 145.602 ms

Loss rate: 0.49%

Run 3: Report of Verus — Data Link

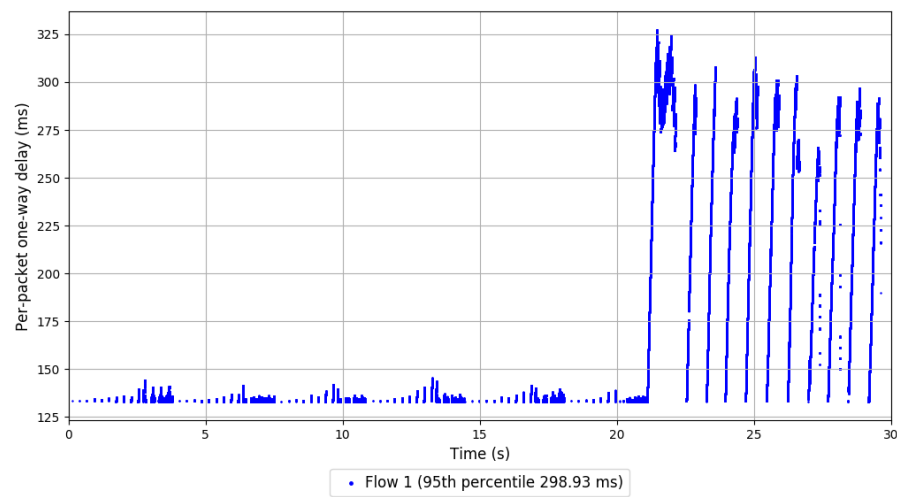
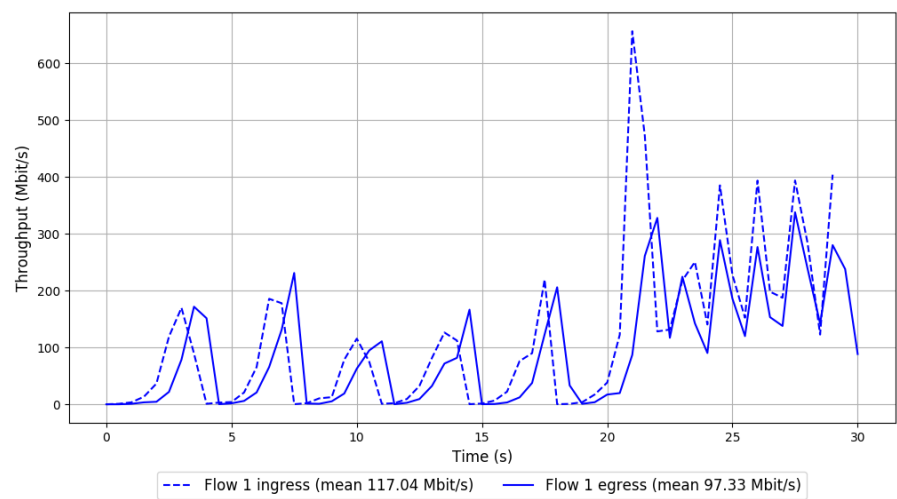


Run 4: Statistics of Verus

Start at: 2019-01-17 18:38:23  
End at: 2019-01-17 18:38:53  
Local clock offset: -0.017 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-17 20:57:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.33 Mbit/s  
95th percentile per-packet one-way delay: 298.931 ms  
Loss rate: 16.68%  
-- Flow 1:  
Average throughput: 97.33 Mbit/s  
95th percentile per-packet one-way delay: 298.931 ms  
Loss rate: 16.68%

Run 4: Report of Verus — Data Link

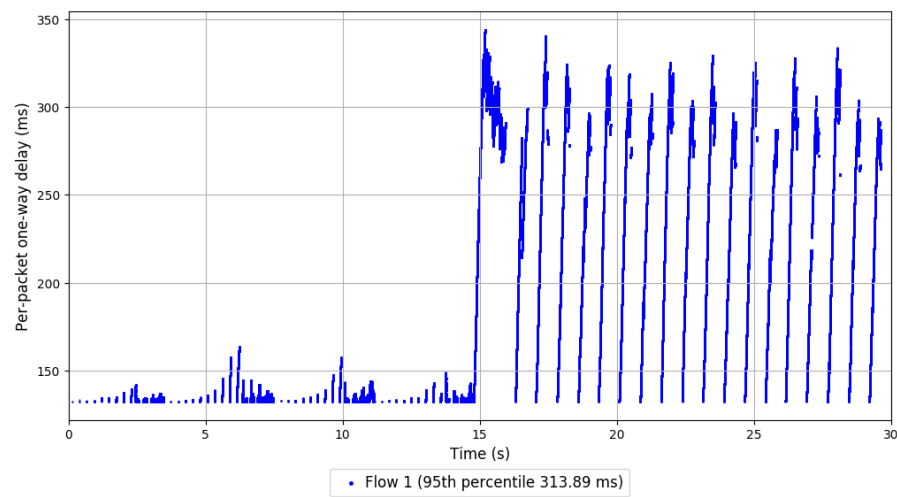
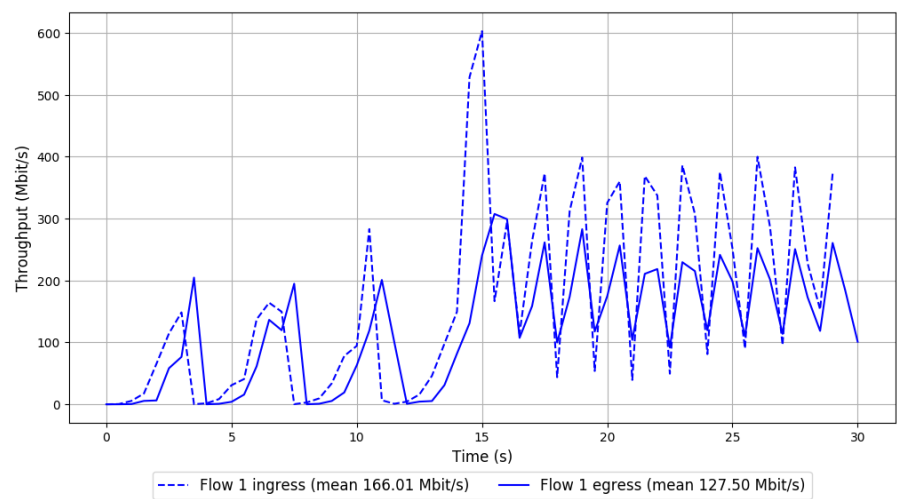


Run 5: Statistics of Verus

Start at: 2019-01-17 19:11:37  
End at: 2019-01-17 19:12:07  
Local clock offset: -0.106 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-17 20:58:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 127.50 Mbit/s  
95th percentile per-packet one-way delay: 313.891 ms  
Loss rate: 22.85%  
-- Flow 1:  
Average throughput: 127.50 Mbit/s  
95th percentile per-packet one-way delay: 313.891 ms  
Loss rate: 22.85%

Run 5: Report of Verus — Data Link

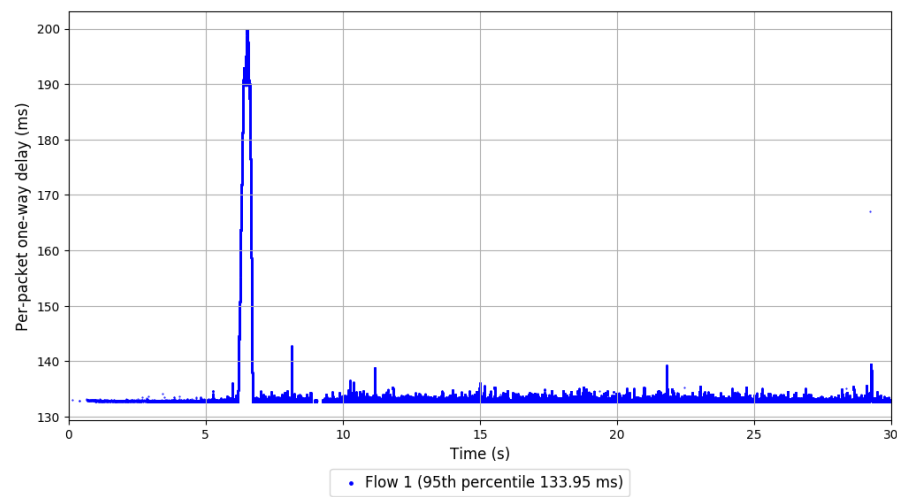
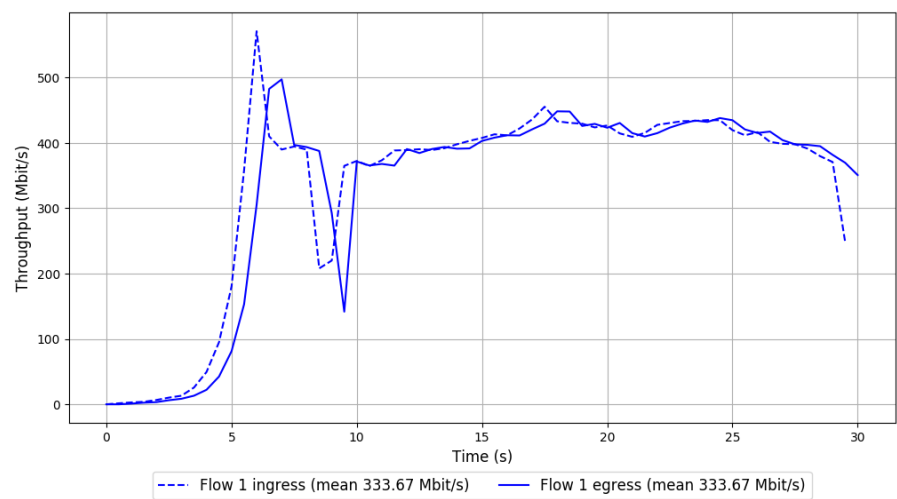


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-17 16:54:59  
End at: 2019-01-17 16:55:29  
Local clock offset: -0.112 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-01-17 20:59:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 333.67 Mbit/s  
95th percentile per-packet one-way delay: 133.950 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 333.67 Mbit/s  
95th percentile per-packet one-way delay: 133.950 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-01-17 17:28:24

End at: 2019-01-17 17:28:54

Local clock offset: 0.175 ms

Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-01-17 21:00:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 343.18 Mbit/s

95th percentile per-packet one-way delay: 178.686 ms

Loss rate: 0.00%

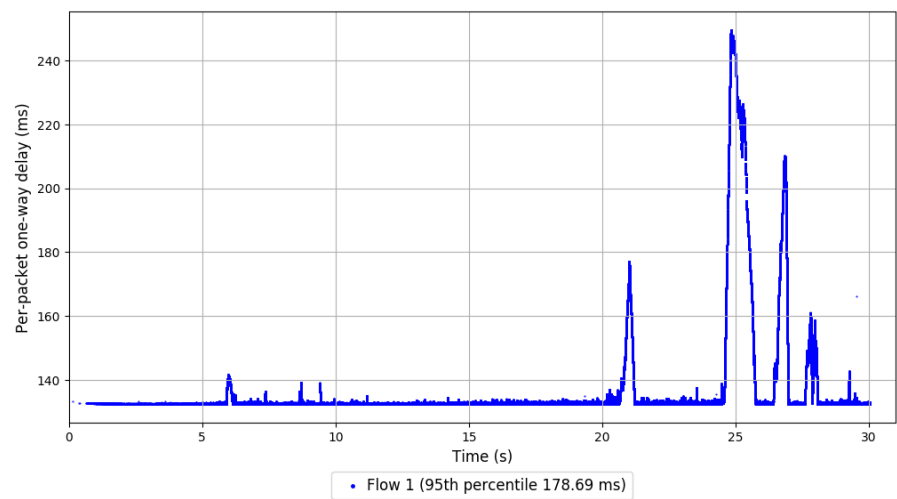
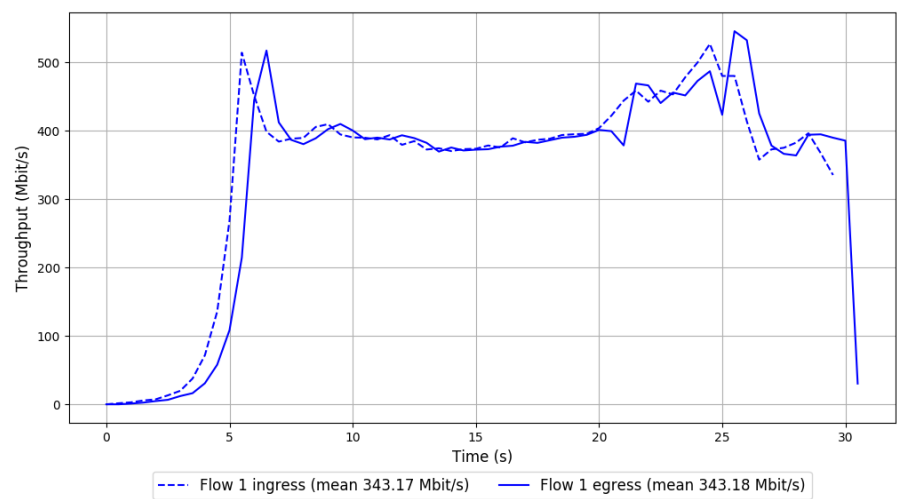
-- Flow 1:

Average throughput: 343.18 Mbit/s

95th percentile per-packet one-way delay: 178.686 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

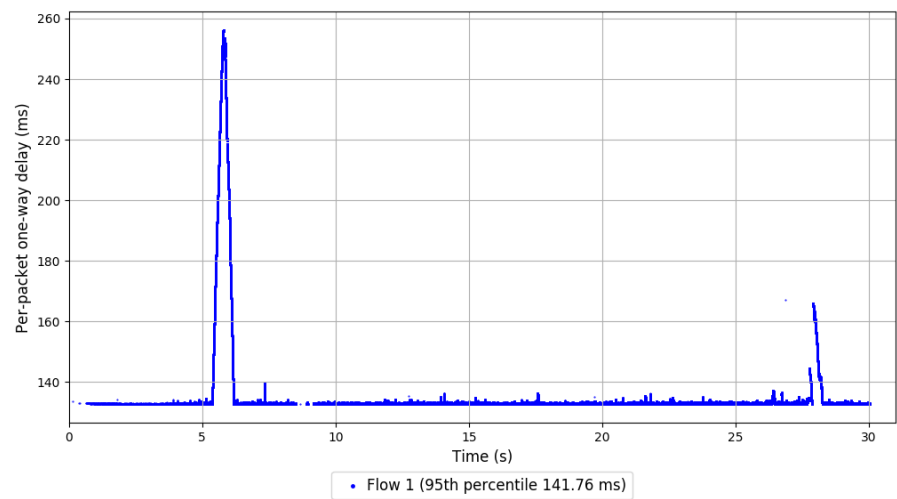
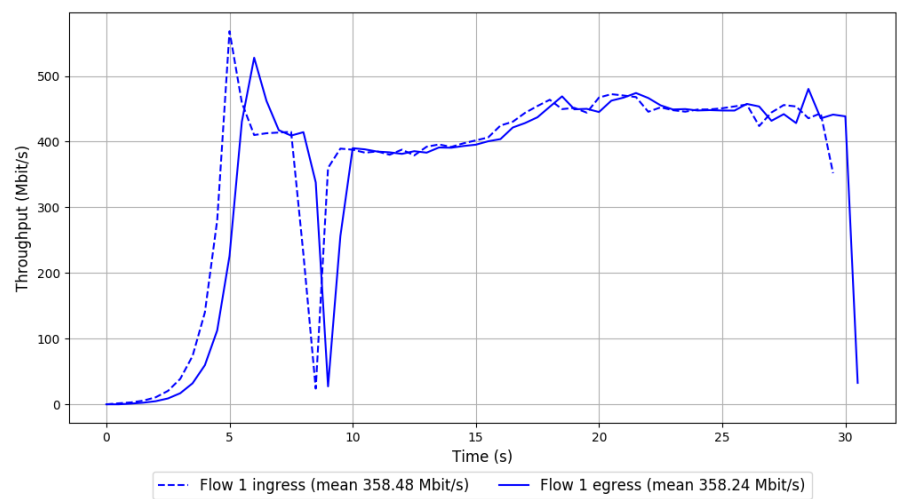


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-17 18:04:13  
End at: 2019-01-17 18:04:43  
Local clock offset: 0.087 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-01-17 21:00:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 358.24 Mbit/s  
95th percentile per-packet one-way delay: 141.764 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 358.24 Mbit/s  
95th percentile per-packet one-way delay: 141.764 ms  
Loss rate: 0.07%

Run 3: Report of PCC-Vivace — Data Link

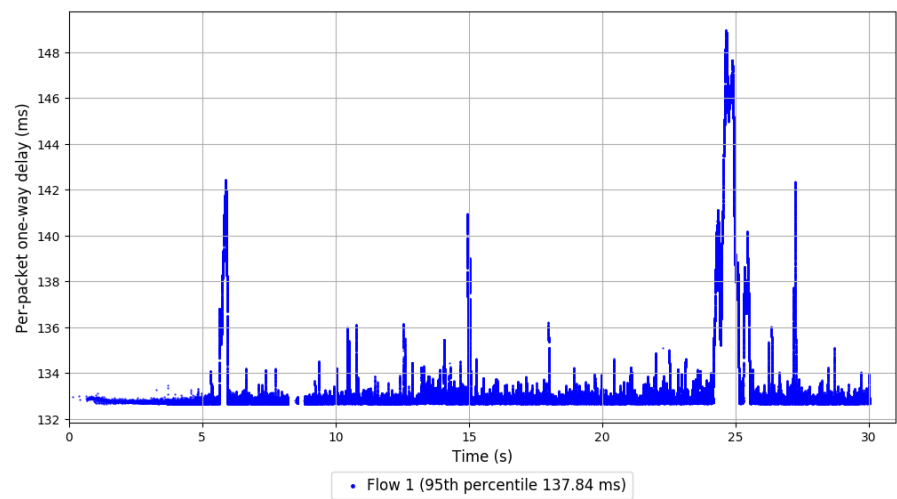
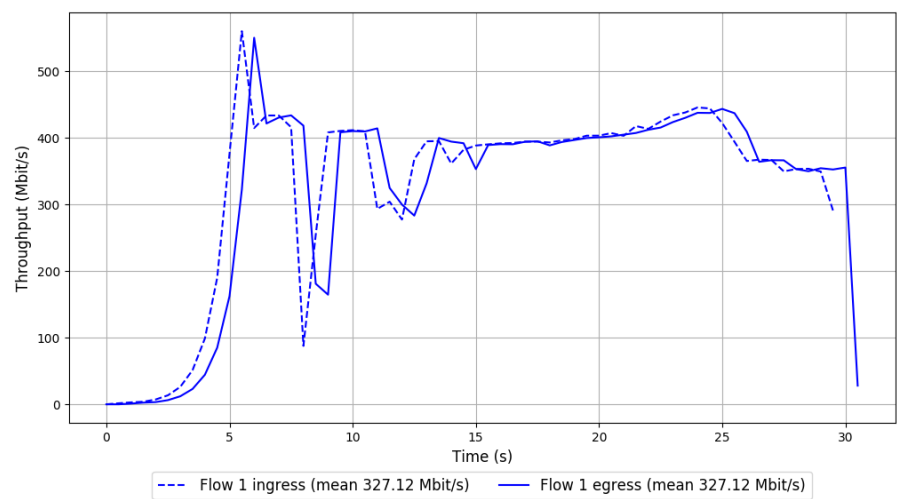


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-17 18:36:47  
End at: 2019-01-17 18:37:17  
Local clock offset: 0.333 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-17 21:00:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 327.12 Mbit/s  
95th percentile per-packet one-way delay: 137.841 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 327.12 Mbit/s  
95th percentile per-packet one-way delay: 137.841 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

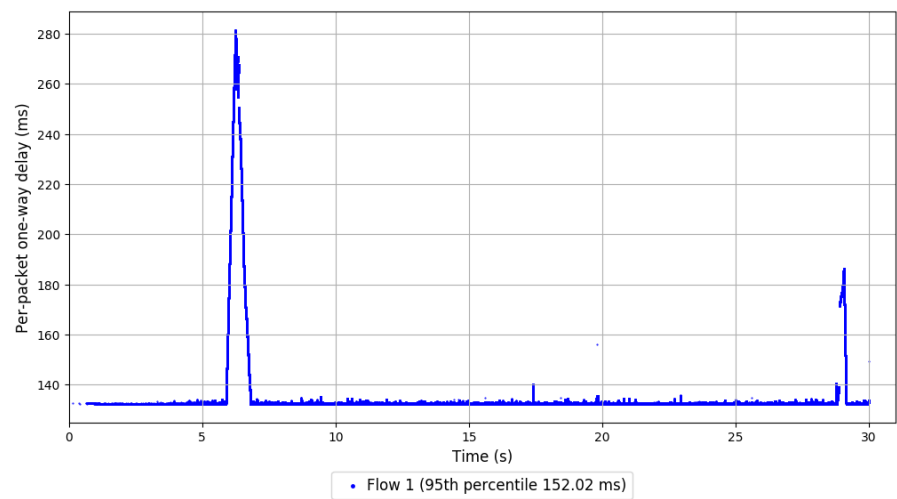
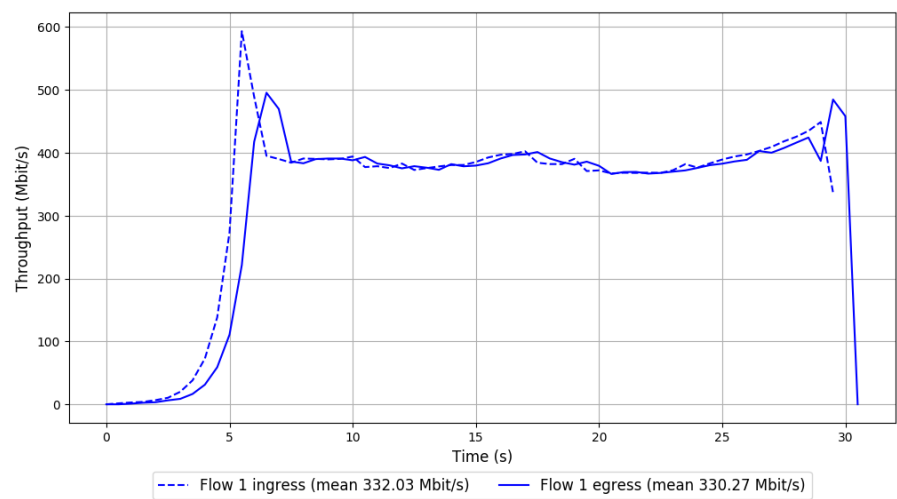


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-17 19:10:00  
End at: 2019-01-17 19:10:30  
Local clock offset: -0.131 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-01-17 21:00:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 330.27 Mbit/s  
95th percentile per-packet one-way delay: 152.024 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 330.27 Mbit/s  
95th percentile per-packet one-way delay: 152.024 ms  
Loss rate: 0.52%

Run 5: Report of PCC-Vivace — Data Link



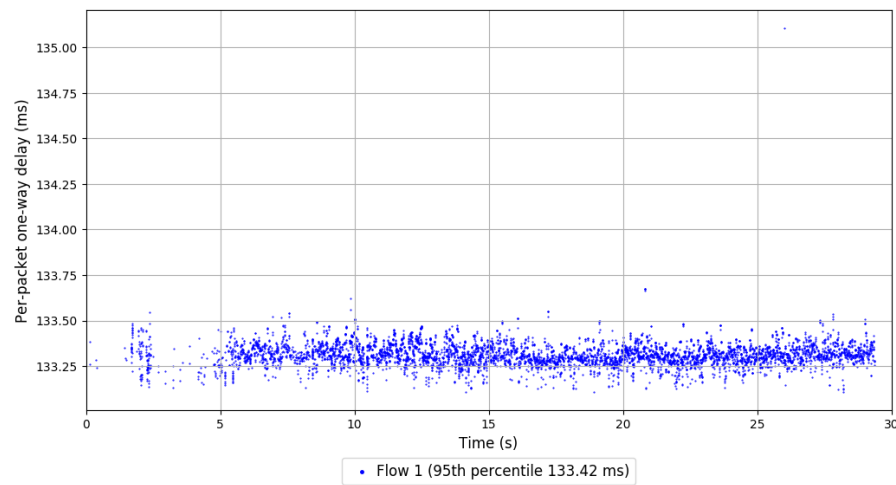
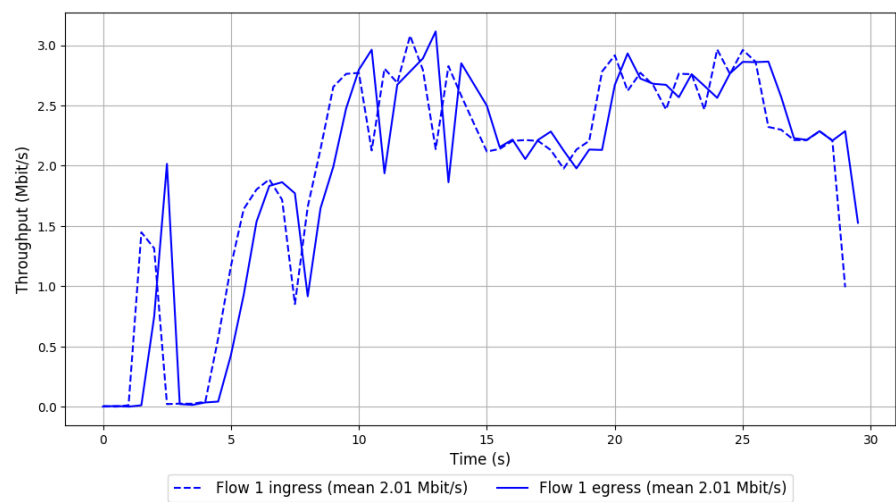


Run 1: Statistics of WebRTC media

Start at: 2019-01-17 16:37:07  
End at: 2019-01-17 16:37:37  
Local clock offset: -0.383 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-17 21:00:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 133.416 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 133.416 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

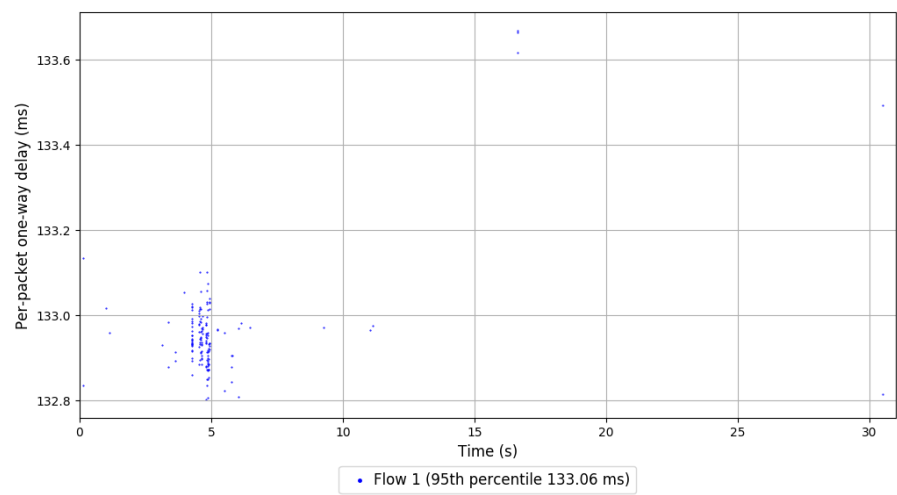
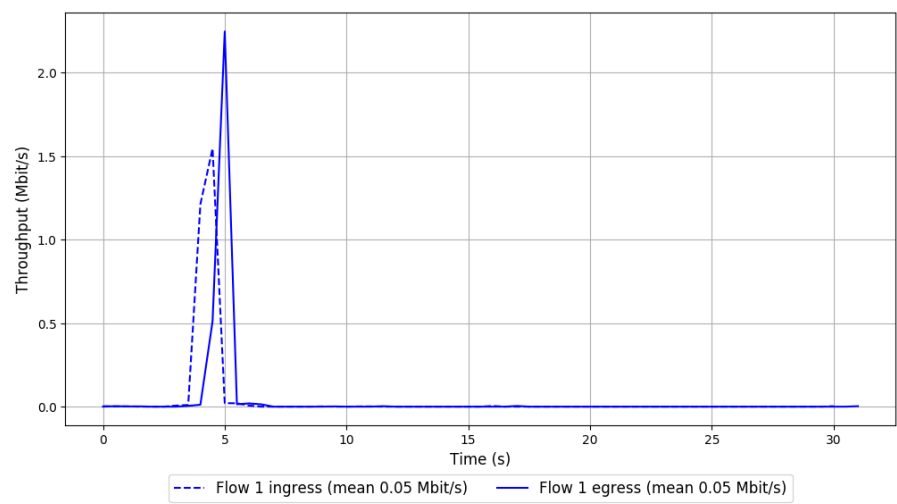


Run 2: Statistics of WebRTC media

Start at: 2019-01-17 17:09:16  
End at: 2019-01-17 17:09:46  
Local clock offset: -0.113 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-01-17 21:00:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.058 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.058 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

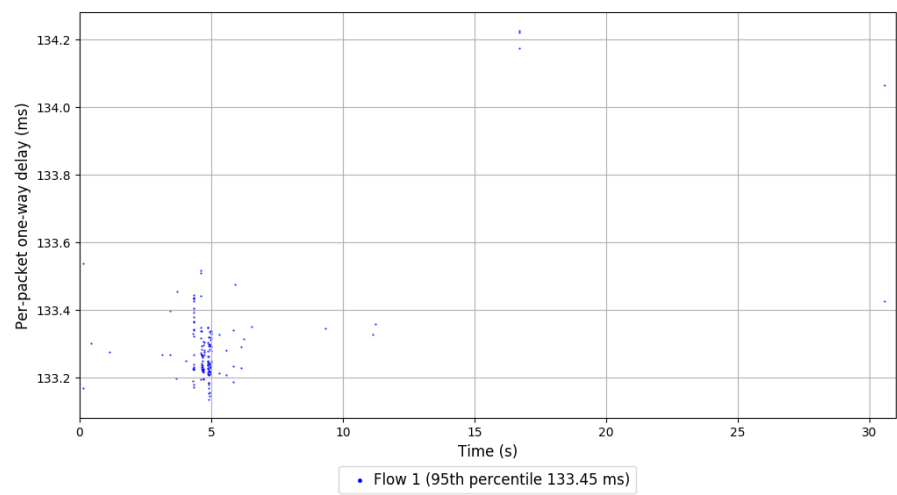
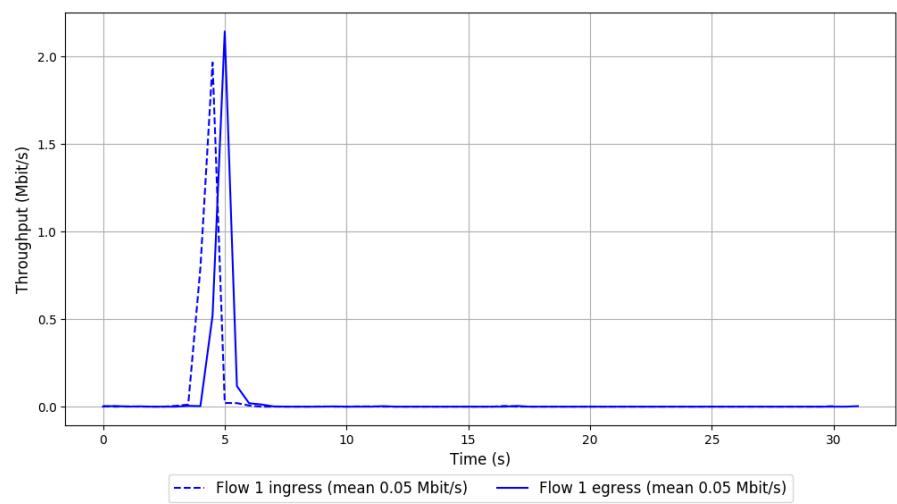


Run 3: Statistics of WebRTC media

Start at: 2019-01-17 17:45:30  
End at: 2019-01-17 17:46:00  
Local clock offset: -0.261 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-01-17 21:00:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.454 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.454 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

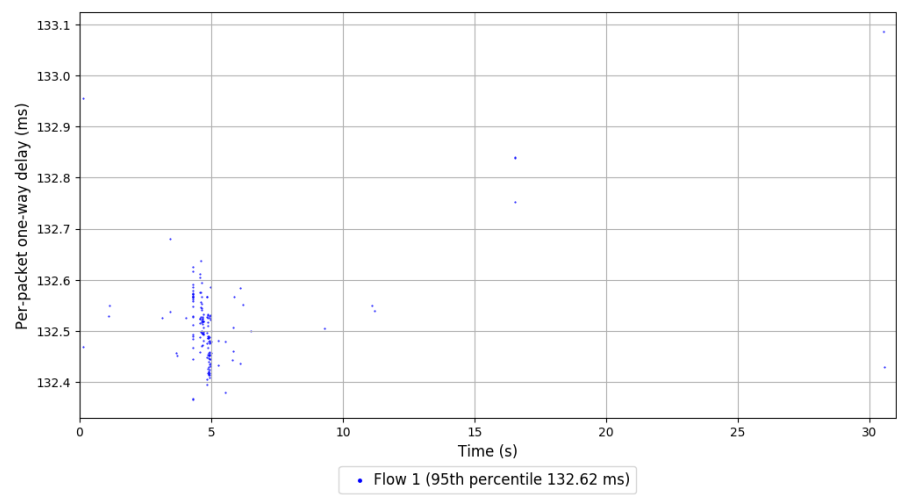
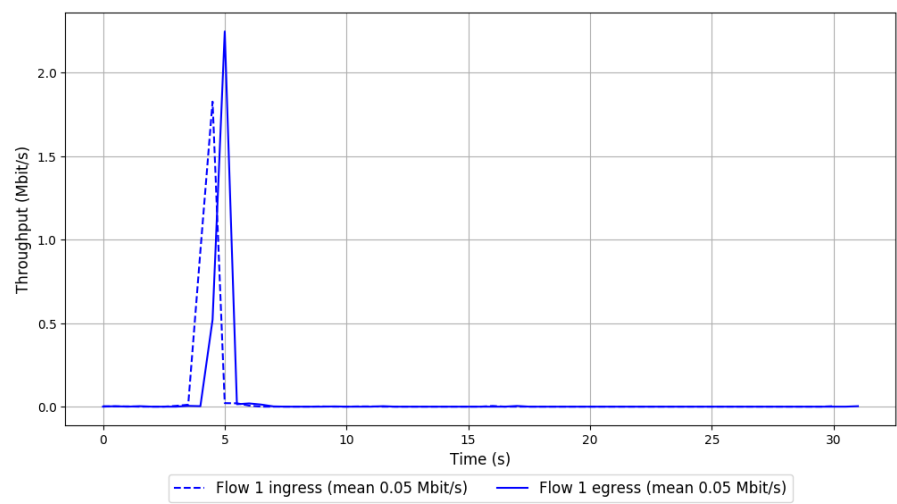


Run 4: Statistics of WebRTC media

Start at: 2019-01-17 18:18:23  
End at: 2019-01-17 18:18:53  
Local clock offset: -0.077 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-01-17 21:00:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.617 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.617 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-17 18:51:24  
End at: 2019-01-17 18:51:54  
Local clock offset: 0.38 ms  
Remote clock offset: -0.403 ms

# Below is generated by plot.py at 2019-01-17 21:00:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.93 Mbit/s  
95th percentile per-packet one-way delay: 132.379 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.93 Mbit/s  
95th percentile per-packet one-way delay: 132.379 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

