

## Pantheon Report

Generated at 2018-11-30 18:12:15 (UTC).

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

Repeated the test of 19 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:

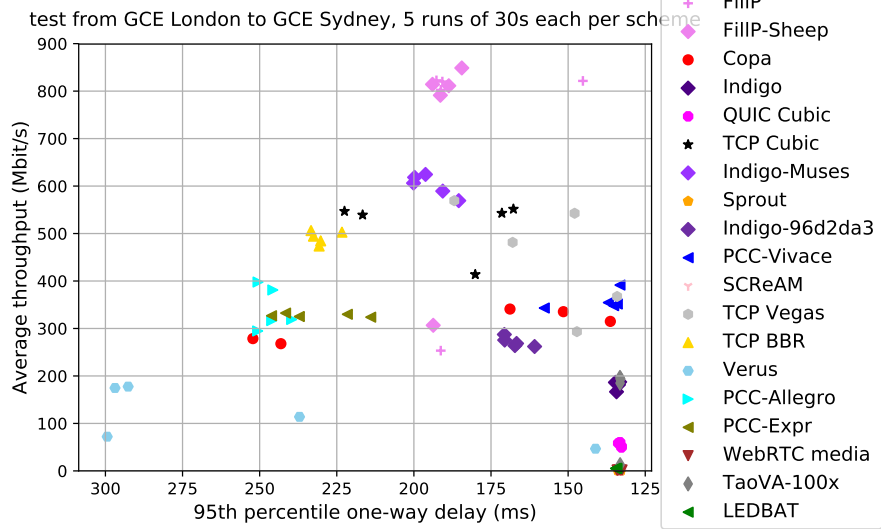
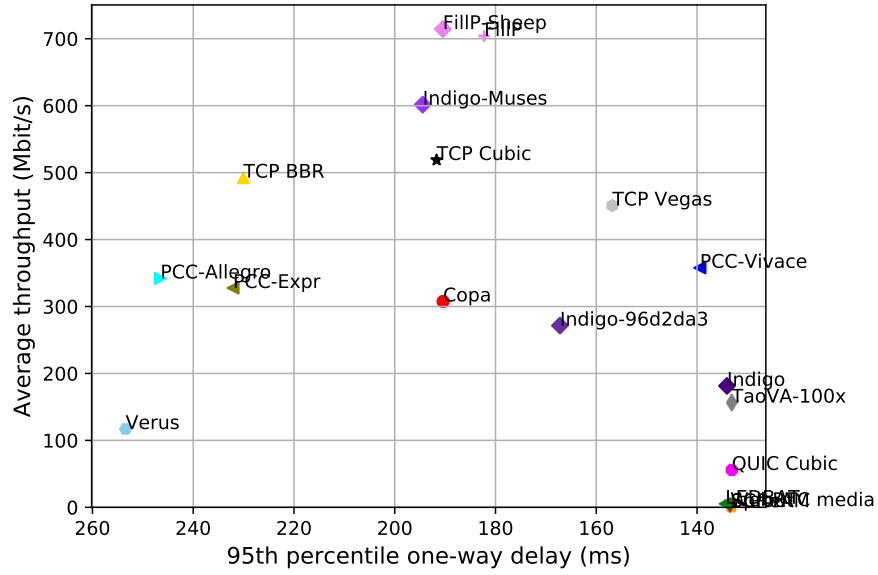
```
Linux 4.15.0-1024-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 7b6dad87cde3ab65f7c4052140eb54098aa58e9d
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f8aa0bcb967ed7048b6a8f994abb95
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
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 London to GCE Sydney, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



| scheme         | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|----------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR        | 5      | 492.40                           | 230.03                              | 2.08                         |
| Copa           | 5      | 307.58                           | 190.40                              | 0.92                         |
| TCP Cubic      | 5      | 518.87                           | 191.69                              | 1.09                         |
| FillP          | 5      | 704.04                           | 182.25                              | 2.23                         |
| FillP-Sheep    | 5      | 714.46                           | 190.46                              | 2.27                         |
| Indigo         | 5      | 181.40                           | 134.06                              | 0.89                         |
| Indigo-96d2da3 | 5      | 271.50                           | 167.21                              | 0.90                         |
| LEDBAT         | 5      | 5.23                             | 134.40                              | 1.78                         |
| Indigo-Muses   | 5      | 601.54                           | 194.44                              | 1.33                         |
| PCC-Allegro    | 5      | 341.87                           | 246.52                              | 5.13                         |
| PCC-Expr       | 5      | 327.64                           | 232.10                              | 4.83                         |
| QUIC Cubic     | 5      | 55.85                            | 133.10                              | 1.40                         |
| SCReAM         | 5      | 0.15                             | 133.31                              | 0.85                         |
| Sprout         | 5      | 0.66                             | 133.23                              | 1.10                         |
| TaoVA-100x     | 5      | 156.41                           | 133.12                              | 0.94                         |
| TCP Vegas      | 5      | 450.81                           | 156.81                              | 0.96                         |
| Verus          | 5      | 117.01                           | 253.43                              | 11.80                        |
| PCC-Vivace     | 5      | 357.75                           | 139.44                              | 1.20                         |
| WebRTC media   | 5      | 1.85                             | 133.43                              | 1.16                         |

Run 1: Statistics of TCP BBR

Start at: 2018-11-30 13:59:30

End at: 2018-11-30 14:00:00

Local clock offset: 0.13 ms

Remote clock offset: 0.342 ms

# Below is generated by plot.py at 2018-11-30 16:48:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 494.49 Mbit/s

95th percentile per-packet one-way delay: 232.552 ms

Loss rate: 2.28%

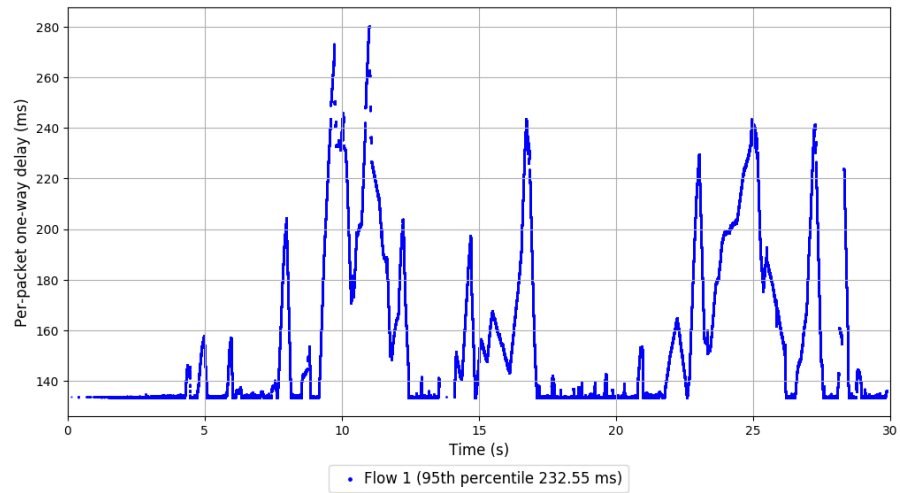
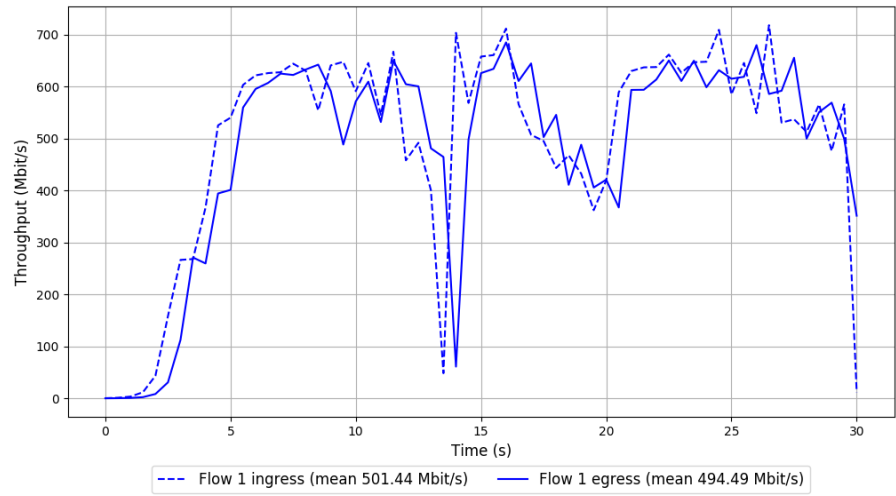
-- Flow 1:

Average throughput: 494.49 Mbit/s

95th percentile per-packet one-way delay: 232.552 ms

Loss rate: 2.28%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-11-30 14:29:17

End at: 2018-11-30 14:29:47

Local clock offset: 0.291 ms

Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-11-30 16:48:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 473.73 Mbit/s

95th percentile per-packet one-way delay: 230.712 ms

Loss rate: 2.76%

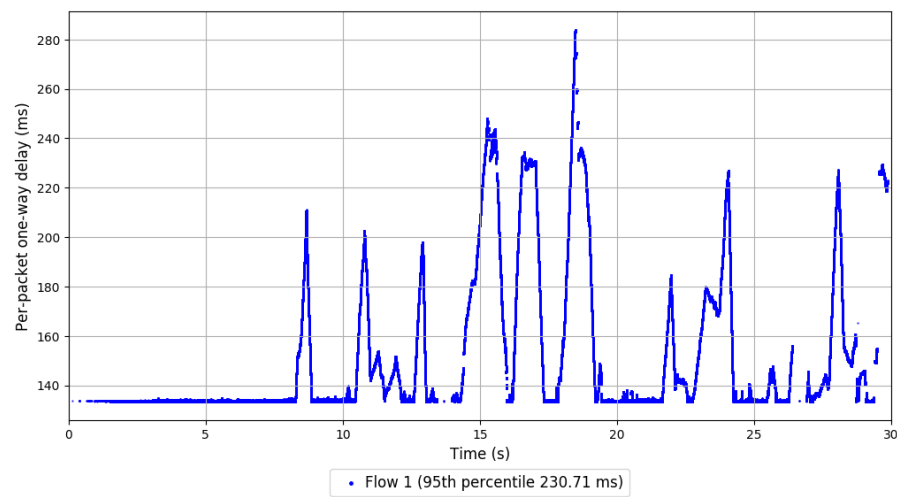
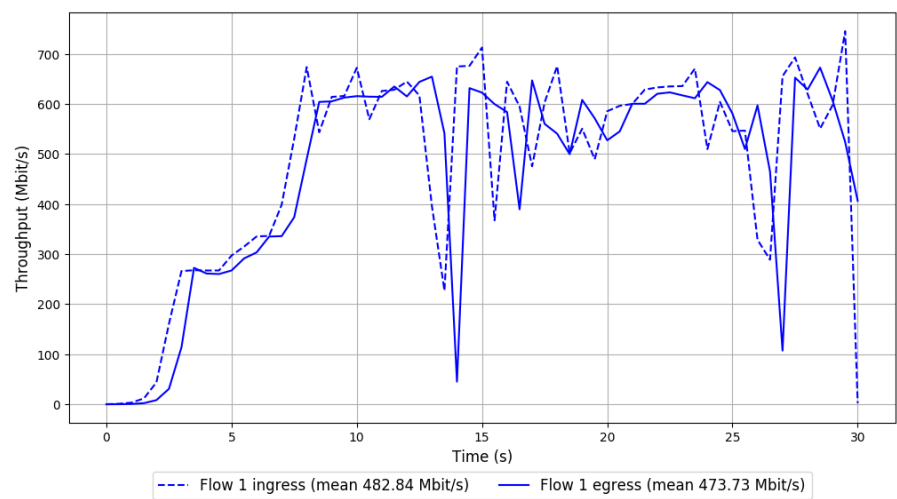
-- Flow 1:

Average throughput: 473.73 Mbit/s

95th percentile per-packet one-way delay: 230.712 ms

Loss rate: 2.76%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-11-30 15:00:04

End at: 2018-11-30 15:00:34

Local clock offset: 0.0 ms

Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-11-30 16:48:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 502.91 Mbit/s

95th percentile per-packet one-way delay: 223.327 ms

Loss rate: 1.26%

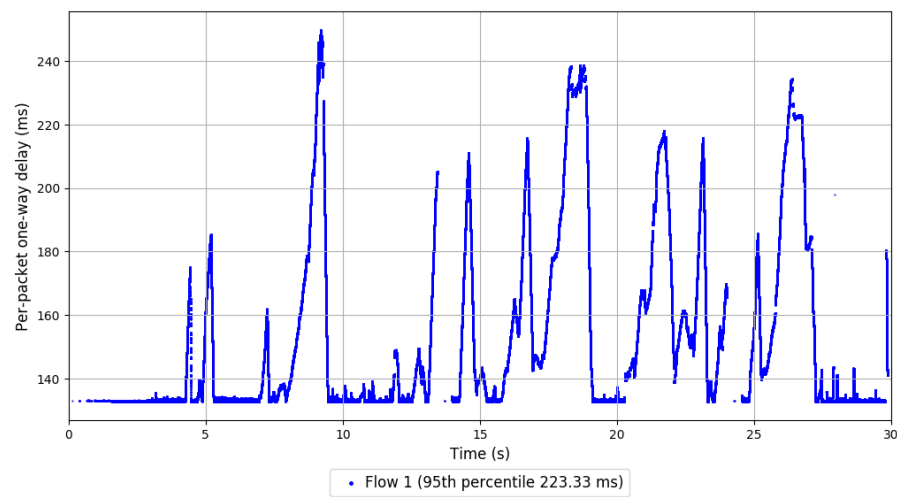
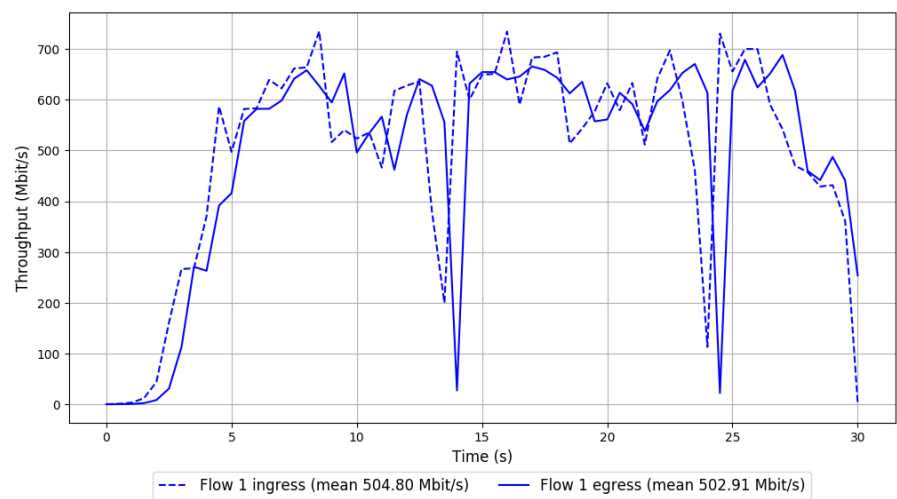
-- Flow 1:

Average throughput: 502.91 Mbit/s

95th percentile per-packet one-way delay: 223.327 ms

Loss rate: 1.26%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-11-30 15:30:54

End at: 2018-11-30 15:31:24

Local clock offset: -0.066 ms

Remote clock offset: -0.476 ms

# Below is generated by plot.py at 2018-11-30 16:48:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 506.27 Mbit/s

95th percentile per-packet one-way delay: 233.346 ms

Loss rate: 2.23%

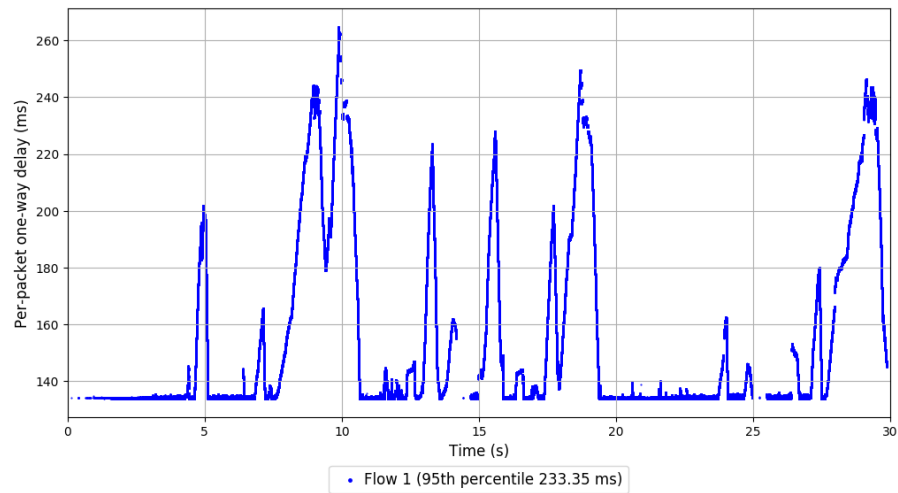
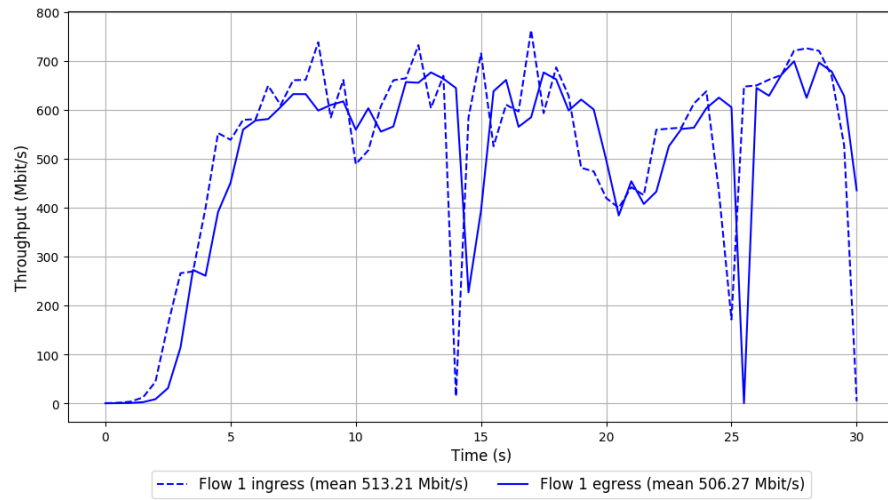
-- Flow 1:

Average throughput: 506.27 Mbit/s

95th percentile per-packet one-way delay: 233.346 ms

Loss rate: 2.23%

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

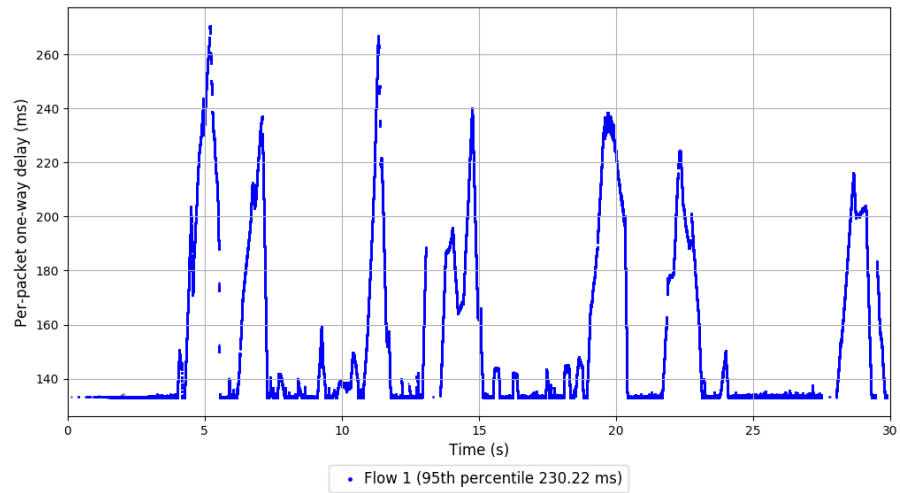
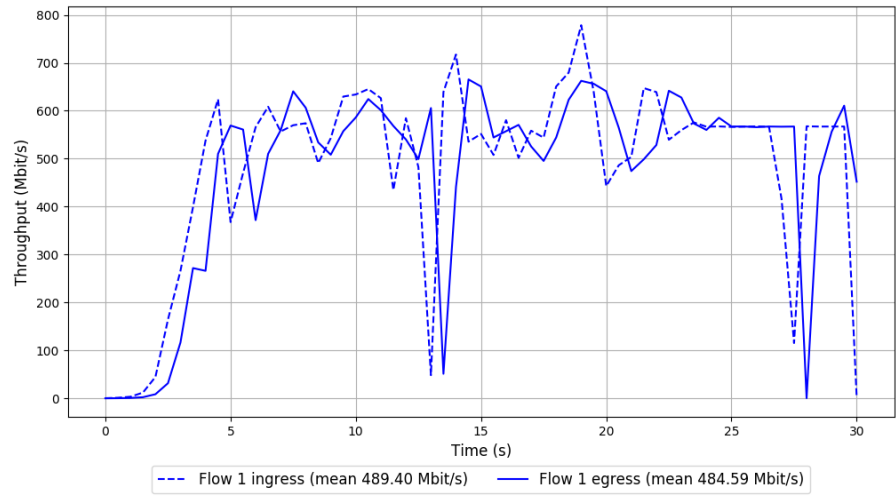


Run 5: Statistics of TCP BBR

Start at: 2018-11-30 16:02:09  
End at: 2018-11-30 16:02:39  
Local clock offset: 0.19 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-11-30 16:48:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 484.59 Mbit/s  
95th percentile per-packet one-way delay: 230.222 ms  
Loss rate: 1.87%  
-- Flow 1:  
Average throughput: 484.59 Mbit/s  
95th percentile per-packet one-way delay: 230.222 ms  
Loss rate: 1.87%

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

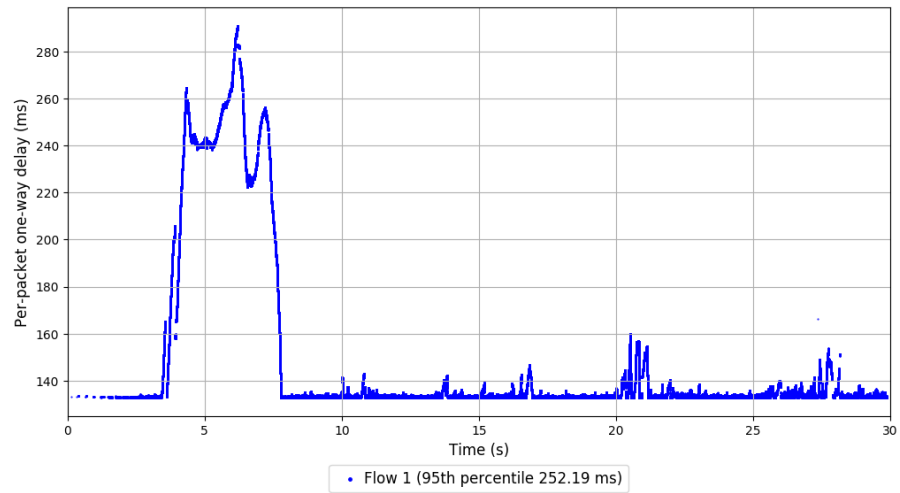
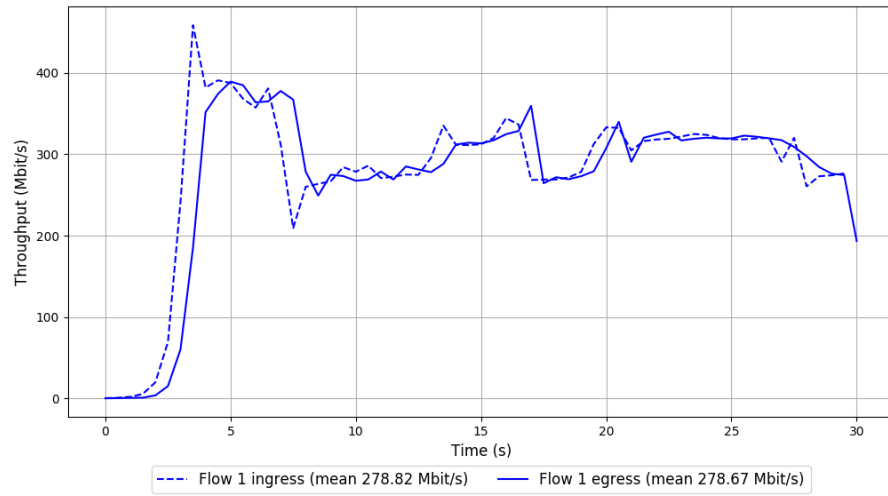


Run 1: Statistics of Copa

Start at: 2018-11-30 13:56:38  
End at: 2018-11-30 13:57:08  
Local clock offset: -0.271 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-11-30 16:48:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 278.67 Mbit/s  
95th percentile per-packet one-way delay: 252.195 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 278.67 Mbit/s  
95th percentile per-packet one-way delay: 252.195 ms  
Loss rate: 0.94%

## Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-11-30 14:26:22

End at: 2018-11-30 14:26:52

Local clock offset: -0.538 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-11-30 16:49:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 314.93 Mbit/s

95th percentile per-packet one-way delay: 136.314 ms

Loss rate: 1.01%

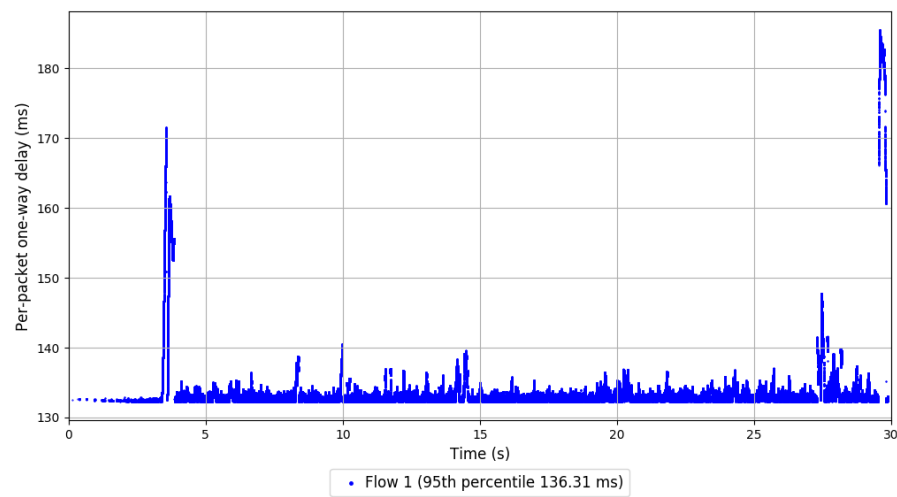
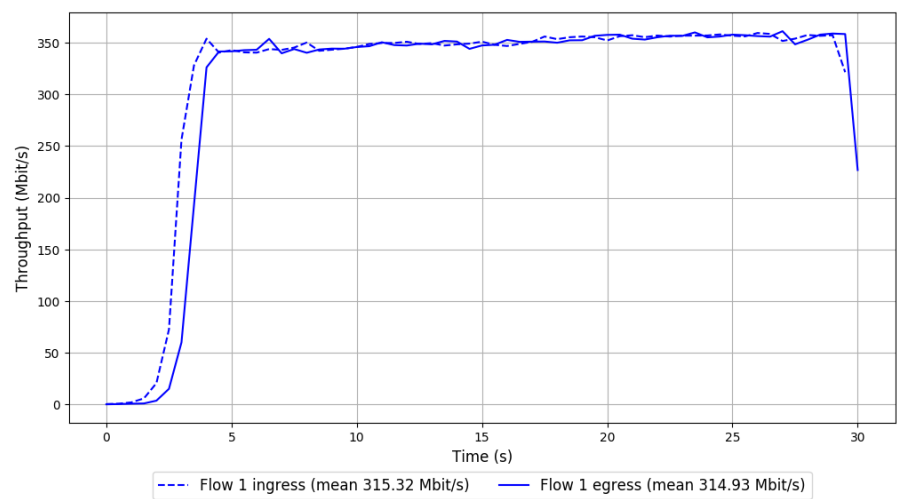
-- Flow 1:

Average throughput: 314.93 Mbit/s

95th percentile per-packet one-way delay: 136.314 ms

Loss rate: 1.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-11-30 14:56:54

End at: 2018-11-30 14:57:24

Local clock offset: 0.003 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-11-30 16:50:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 340.92 Mbit/s

95th percentile per-packet one-way delay: 168.850 ms

Loss rate: 0.94%

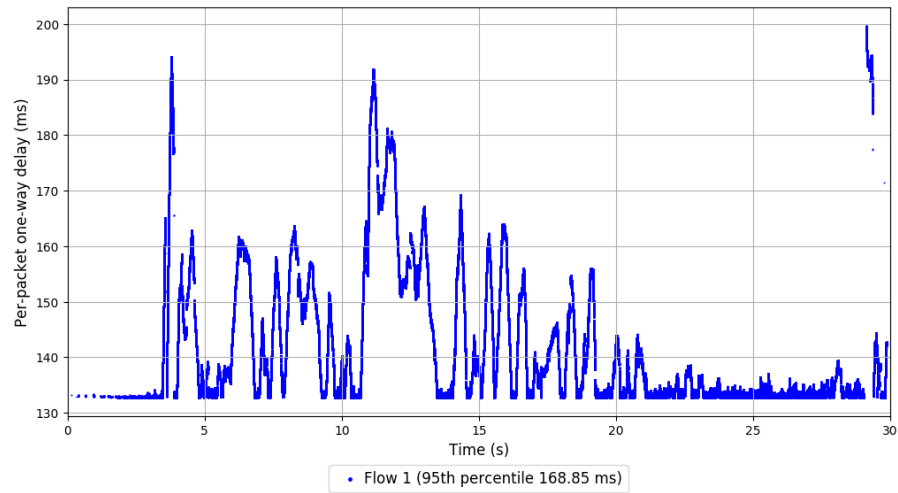
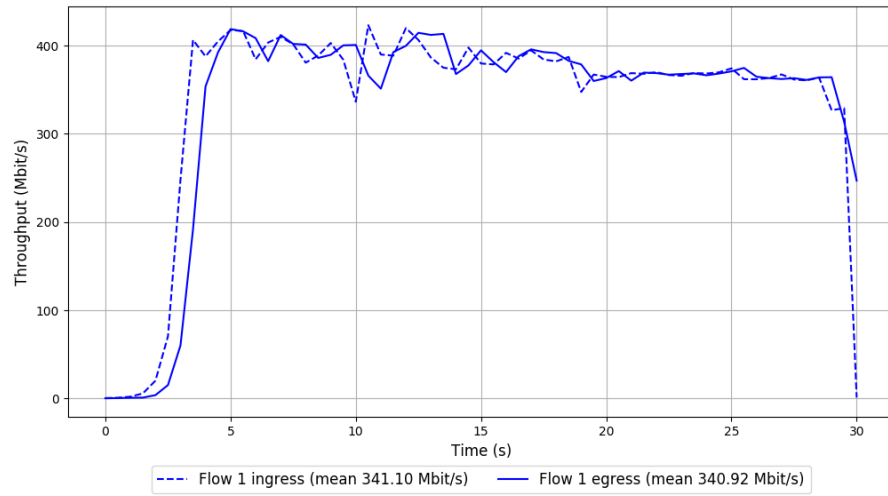
-- Flow 1:

Average throughput: 340.92 Mbit/s

95th percentile per-packet one-way delay: 168.850 ms

Loss rate: 0.94%

### Run 3: Report of Copa — Data Link

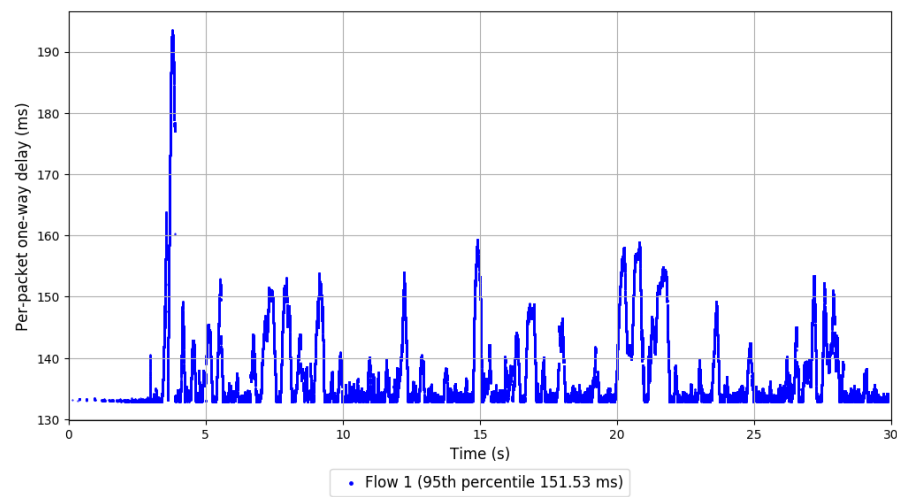
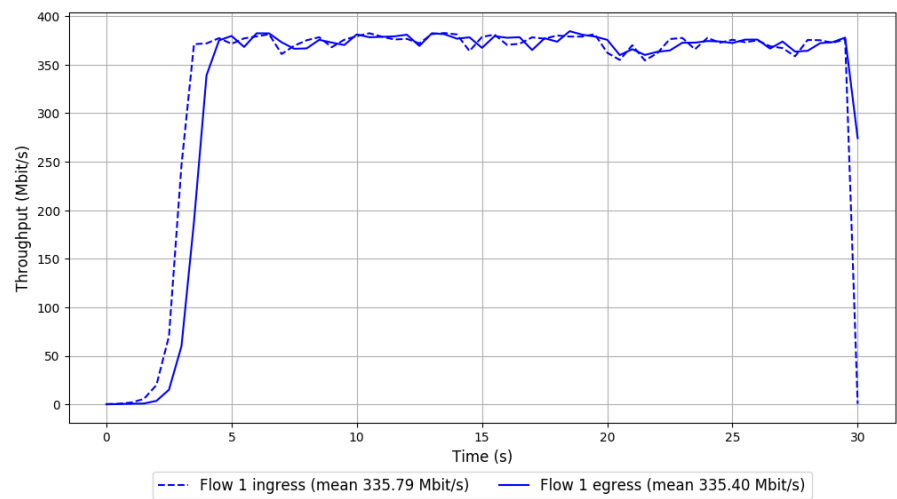


Run 4: Statistics of Copa

Start at: 2018-11-30 15:27:38  
End at: 2018-11-30 15:28:08  
Local clock offset: 0.015 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-11-30 17:00:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 335.40 Mbit/s  
95th percentile per-packet one-way delay: 151.534 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 335.40 Mbit/s  
95th percentile per-packet one-way delay: 151.534 ms  
Loss rate: 1.00%

Run 4: Report of Copa — Data Link

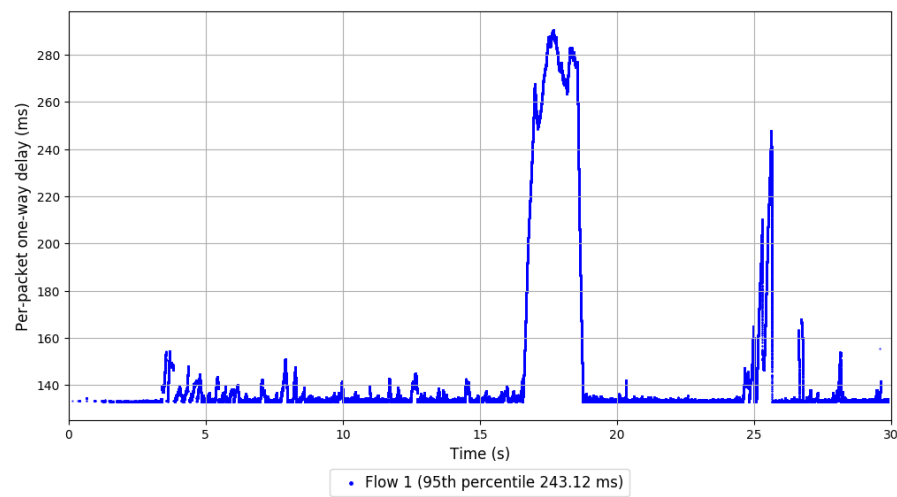
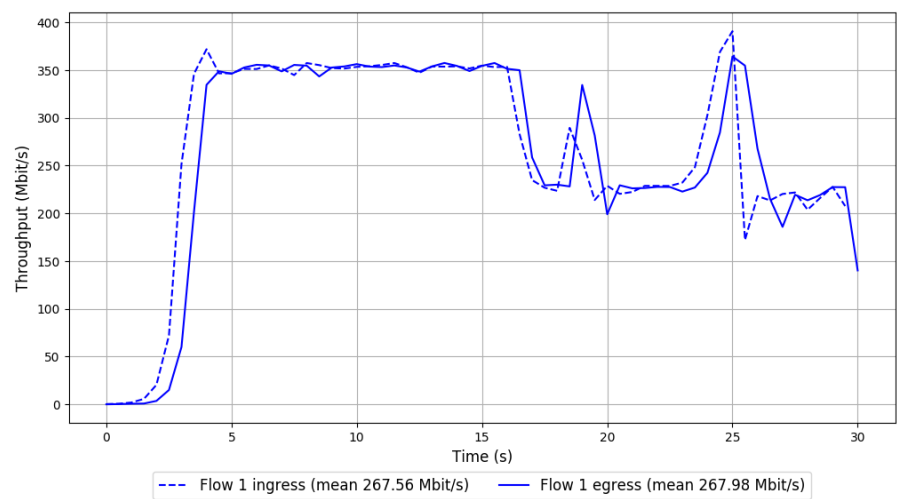


Run 5: Statistics of Copa

Start at: 2018-11-30 15:59:17  
End at: 2018-11-30 15:59:47  
Local clock offset: 0.281 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-11-30 17:00:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 267.98 Mbit/s  
95th percentile per-packet one-way delay: 243.119 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 267.98 Mbit/s  
95th percentile per-packet one-way delay: 243.119 ms  
Loss rate: 0.73%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-11-30 14:17:21

End at: 2018-11-30 14:17:51

Local clock offset: 0.036 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-11-30 17:00:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 539.23 Mbit/s

95th percentile per-packet one-way delay: 216.627 ms

Loss rate: 1.15%

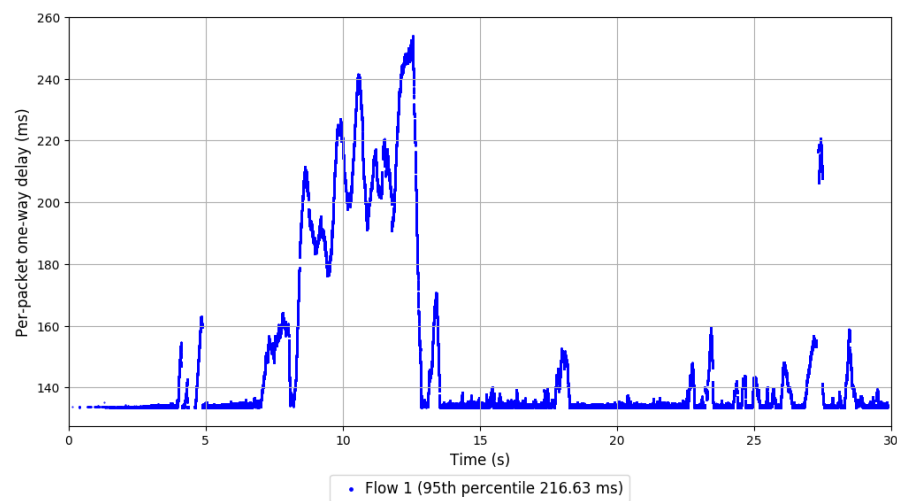
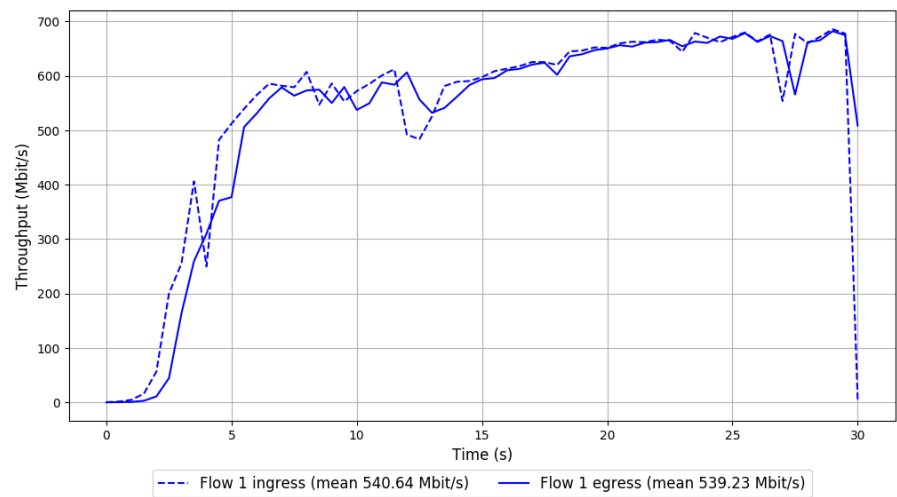
-- Flow 1:

Average throughput: 539.23 Mbit/s

95th percentile per-packet one-way delay: 216.627 ms

Loss rate: 1.15%

Run 1: Report of TCP Cubic — Data Link

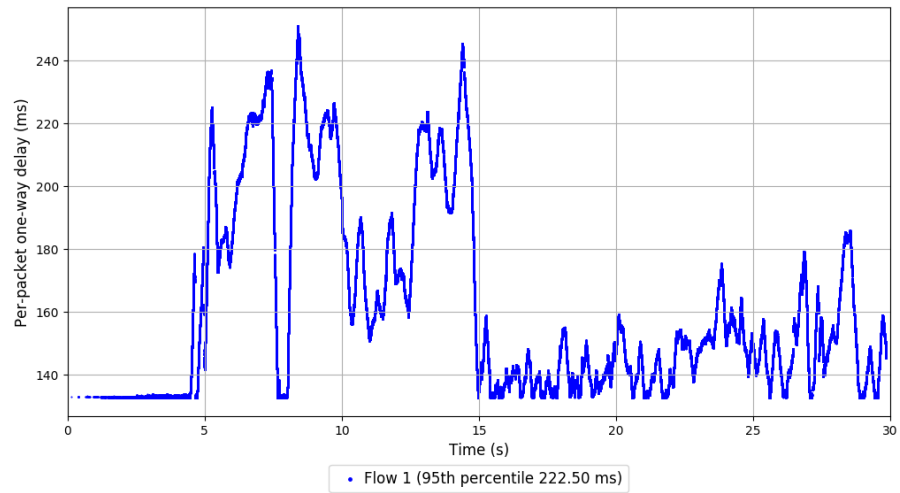
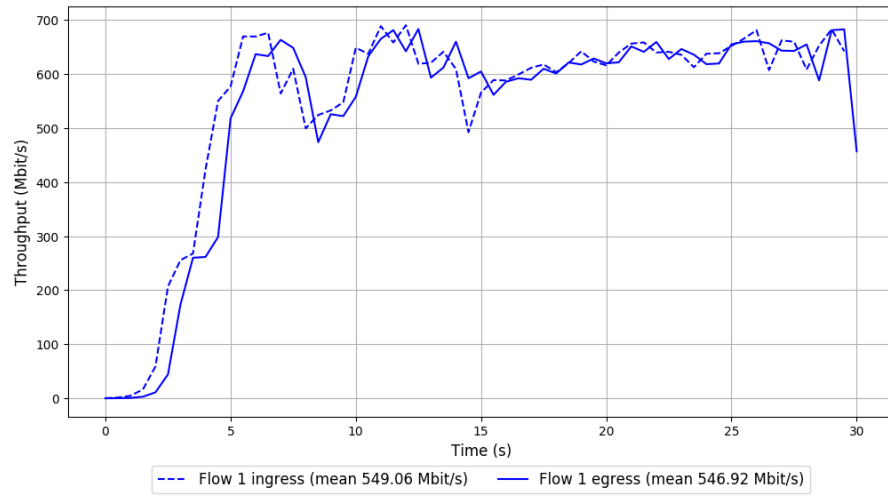


Run 2: Statistics of TCP Cubic

Start at: 2018-11-30 14:47:50  
End at: 2018-11-30 14:48:20  
Local clock offset: -0.275 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-11-30 17:00:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 546.92 Mbit/s  
95th percentile per-packet one-way delay: 222.496 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 546.92 Mbit/s  
95th percentile per-packet one-way delay: 222.496 ms  
Loss rate: 1.28%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-11-30 15:18:04

End at: 2018-11-30 15:18:34

Local clock offset: 0.341 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-11-30 17:00:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 542.91 Mbit/s

95th percentile per-packet one-way delay: 171.487 ms

Loss rate: 1.14%

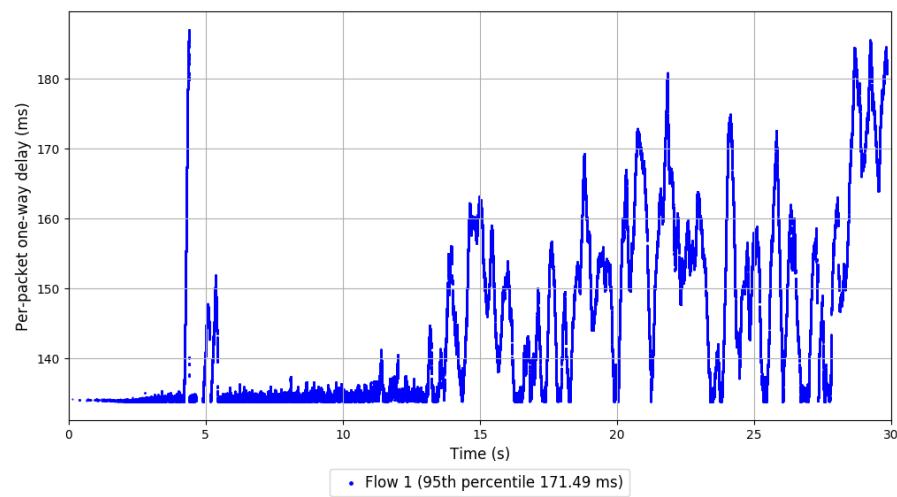
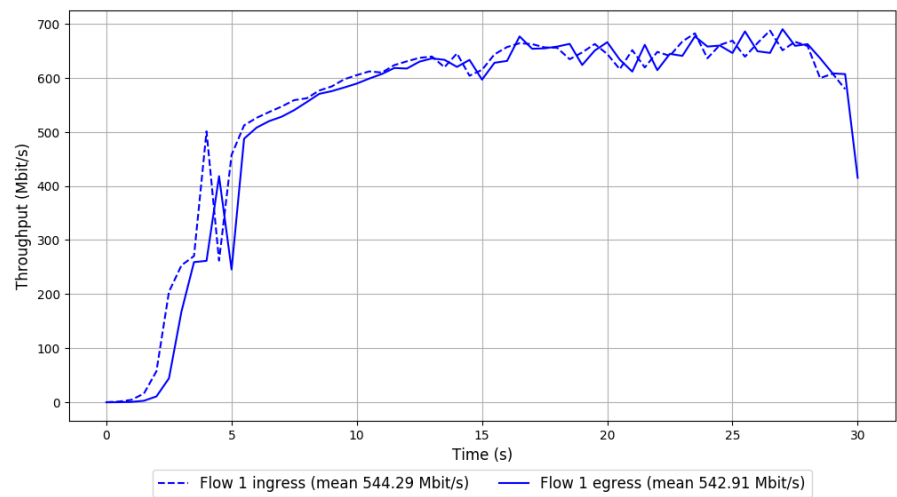
-- Flow 1:

Average throughput: 542.91 Mbit/s

95th percentile per-packet one-way delay: 171.487 ms

Loss rate: 1.14%

Run 3: Report of TCP Cubic — Data Link

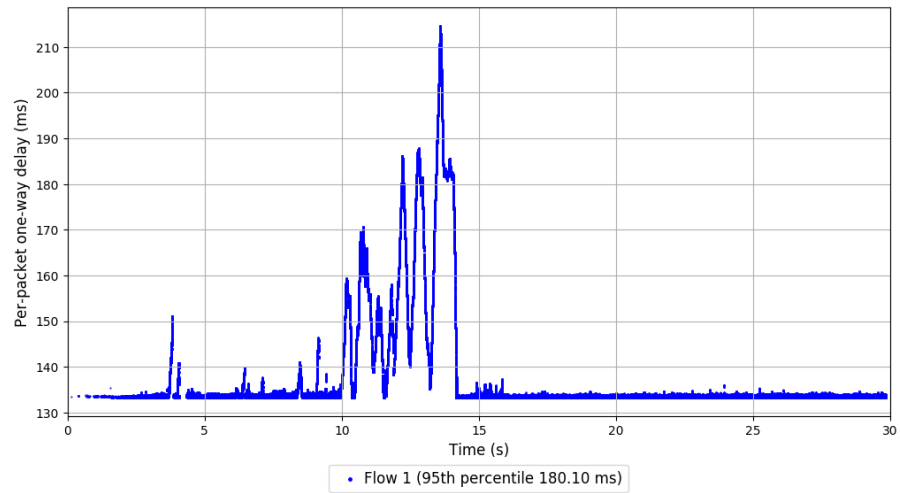
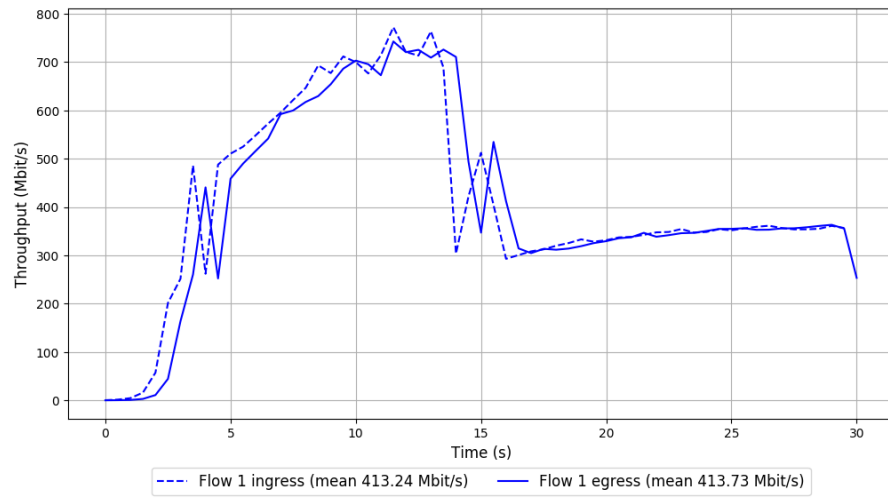


Run 4: Statistics of TCP Cubic

Start at: 2018-11-30 15:50:17  
End at: 2018-11-30 15:50:47  
Local clock offset: 0.17 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-11-30 17:00:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 413.73 Mbit/s  
95th percentile per-packet one-way delay: 180.103 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 413.73 Mbit/s  
95th percentile per-packet one-way delay: 180.103 ms  
Loss rate: 0.77%

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

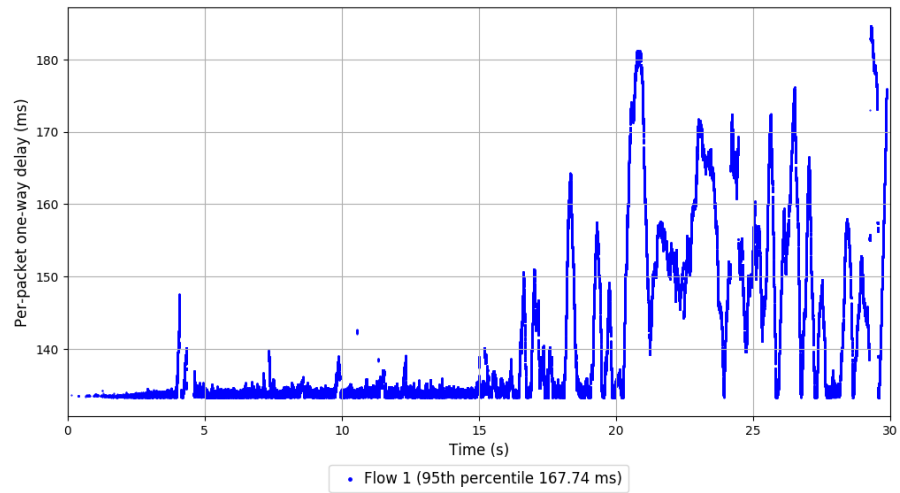
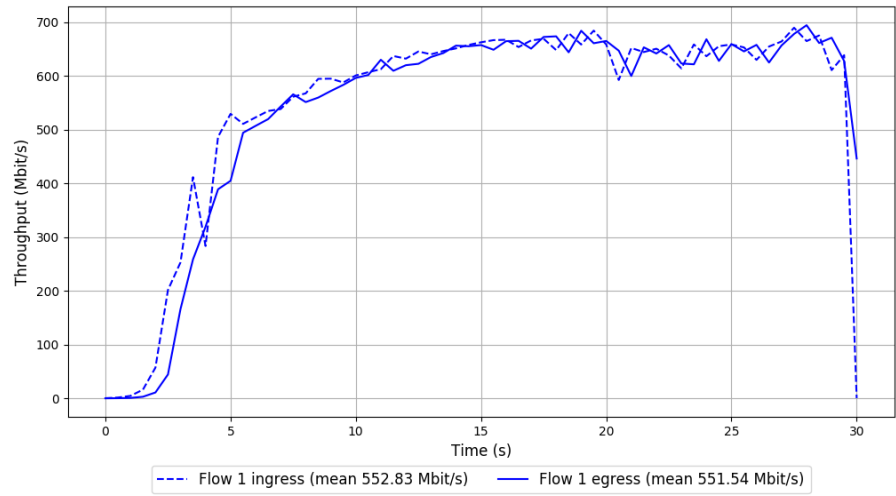


Run 5: Statistics of TCP Cubic

Start at: 2018-11-30 16:20:03  
End at: 2018-11-30 16:20:33  
Local clock offset: -0.165 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-11-30 17:01:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 551.54 Mbit/s  
95th percentile per-packet one-way delay: 167.736 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 551.54 Mbit/s  
95th percentile per-packet one-way delay: 167.736 ms  
Loss rate: 1.12%

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

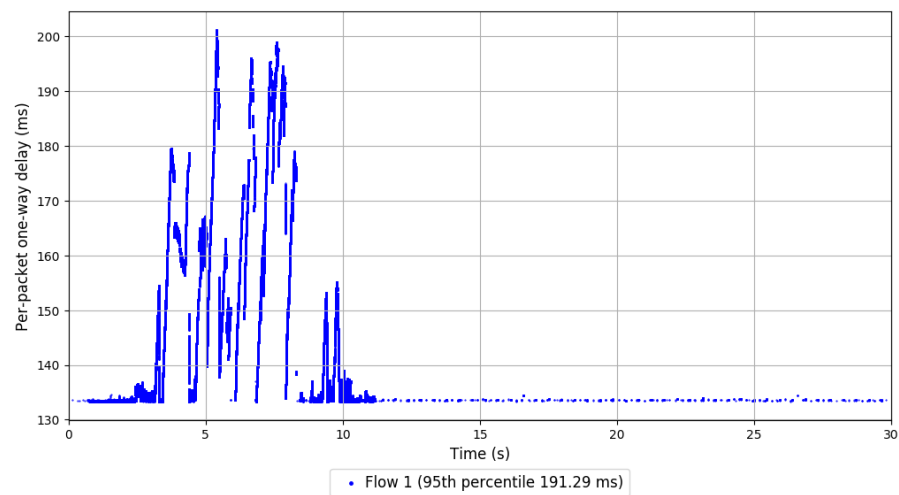
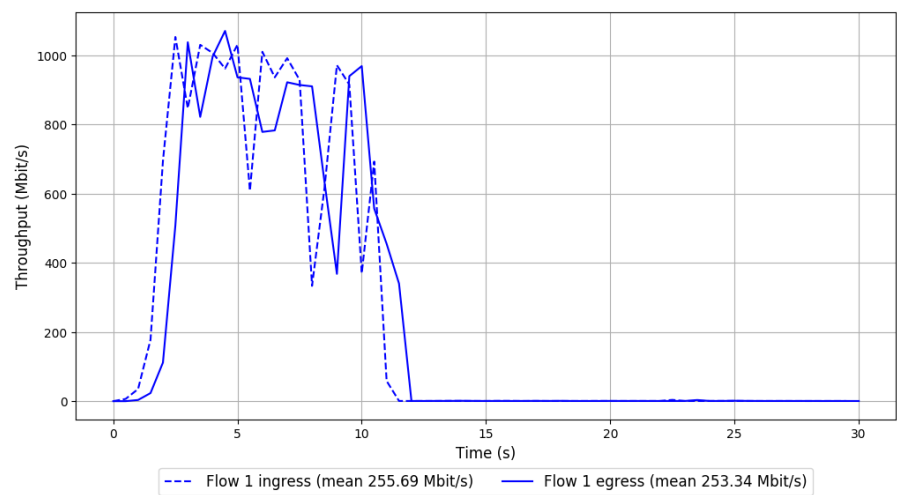


Run 1: Statistics of FillP

Start at: 2018-11-30 14:15:48  
End at: 2018-11-30 14:16:18  
Local clock offset: -0.091 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-11-30 17:01:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 253.34 Mbit/s  
95th percentile per-packet one-way delay: 191.289 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 253.34 Mbit/s  
95th percentile per-packet one-way delay: 191.289 ms  
Loss rate: 1.73%

Run 1: Report of FillP — Data Link

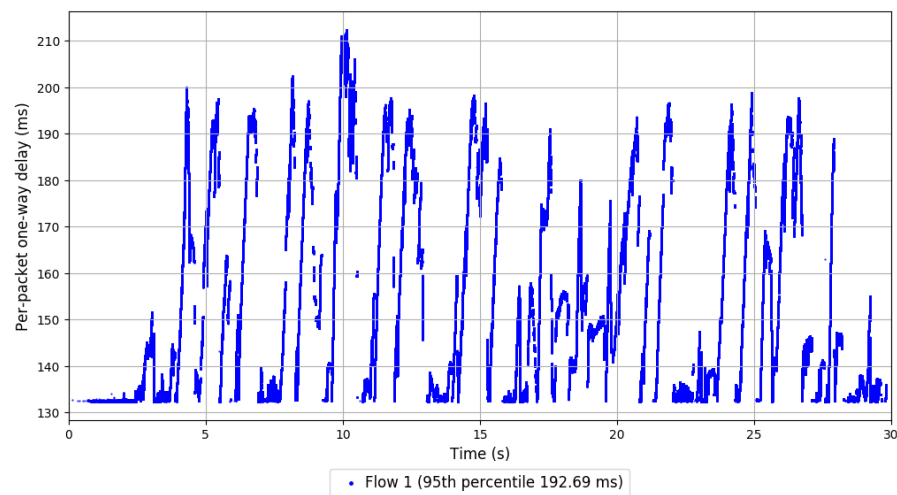
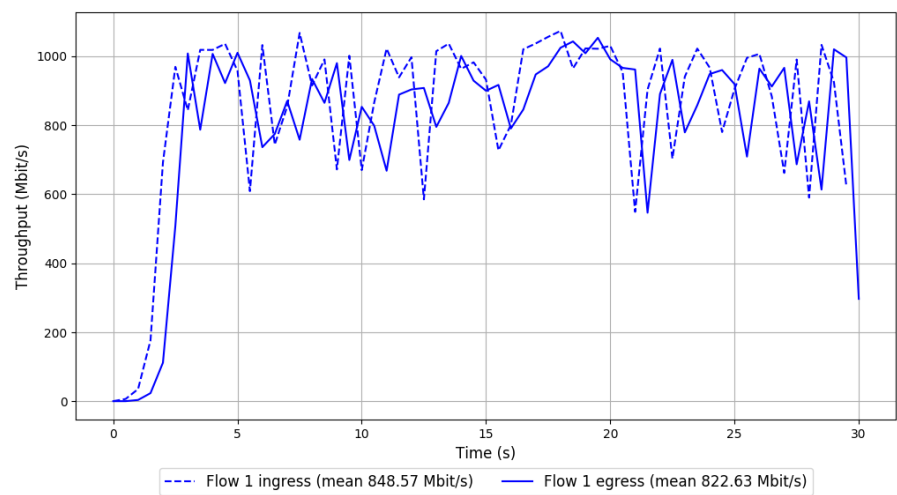


Run 2: Statistics of FillP

Start at: 2018-11-30 14:46:00  
End at: 2018-11-30 14:46:30  
Local clock offset: -0.446 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-11-30 17:17:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 822.63 Mbit/s  
95th percentile per-packet one-way delay: 192.689 ms  
Loss rate: 3.88%  
-- Flow 1:  
Average throughput: 822.63 Mbit/s  
95th percentile per-packet one-way delay: 192.689 ms  
Loss rate: 3.88%

Run 2: Report of FillP — Data Link

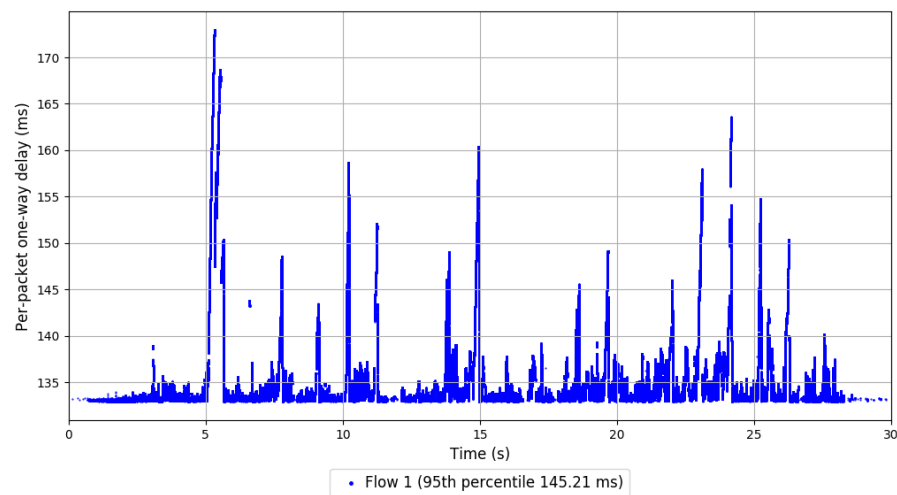
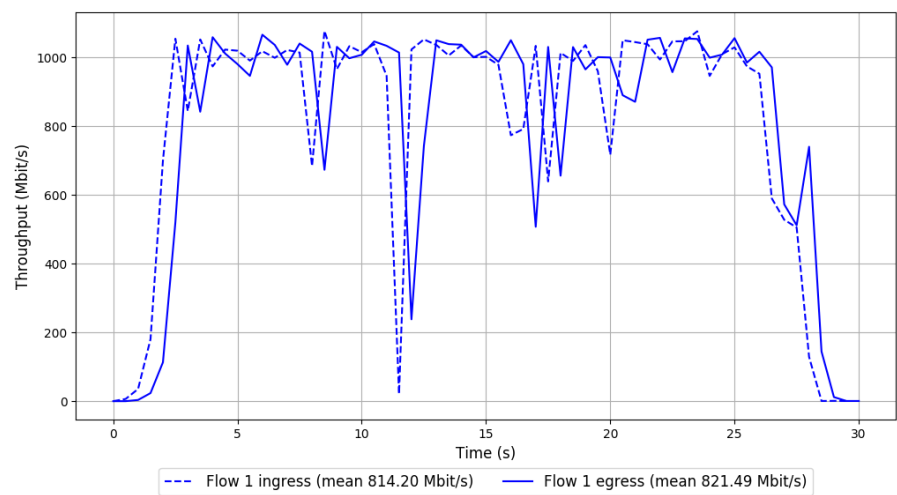


Run 3: Statistics of FillP

Start at: 2018-11-30 15:16:08  
End at: 2018-11-30 15:16:38  
Local clock offset: -0.44 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-11-30 17:17:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 821.49 Mbit/s  
95th percentile per-packet one-way delay: 145.209 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 821.49 Mbit/s  
95th percentile per-packet one-way delay: 145.209 ms  
Loss rate: 0.00%

Run 3: Report of FillP — Data Link

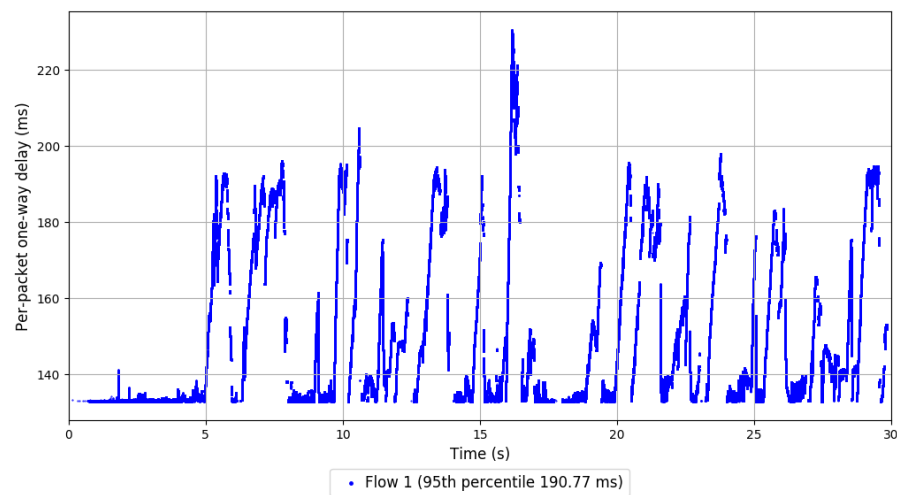
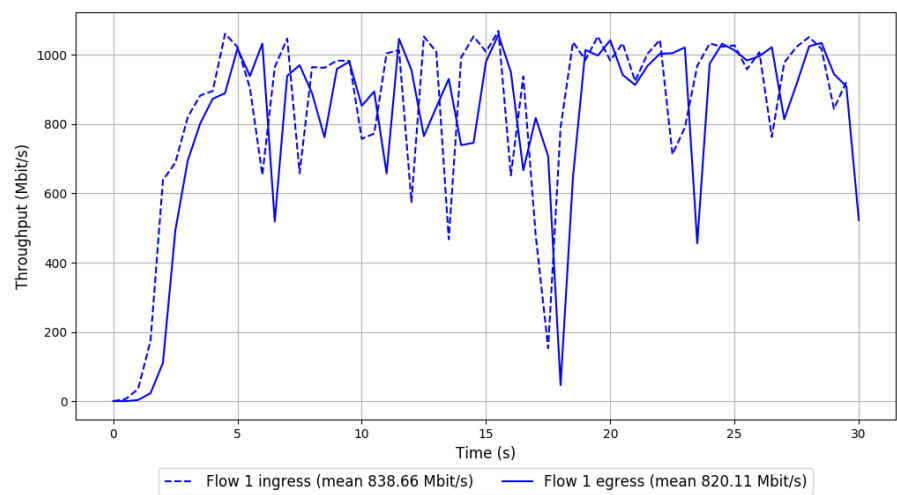


Run 4: Statistics of FillP

Start at: 2018-11-30 15:48:10  
End at: 2018-11-30 15:48:40  
Local clock offset: -0.068 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-11-30 17:18:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 820.11 Mbit/s  
95th percentile per-packet one-way delay: 190.772 ms  
Loss rate: 3.08%  
-- Flow 1:  
Average throughput: 820.11 Mbit/s  
95th percentile per-packet one-way delay: 190.772 ms  
Loss rate: 3.08%

Run 4: Report of FillP — Data Link

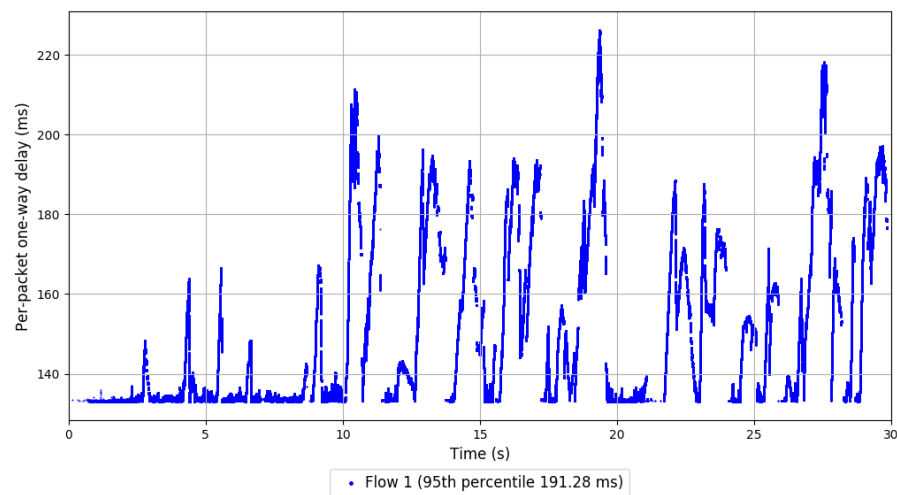
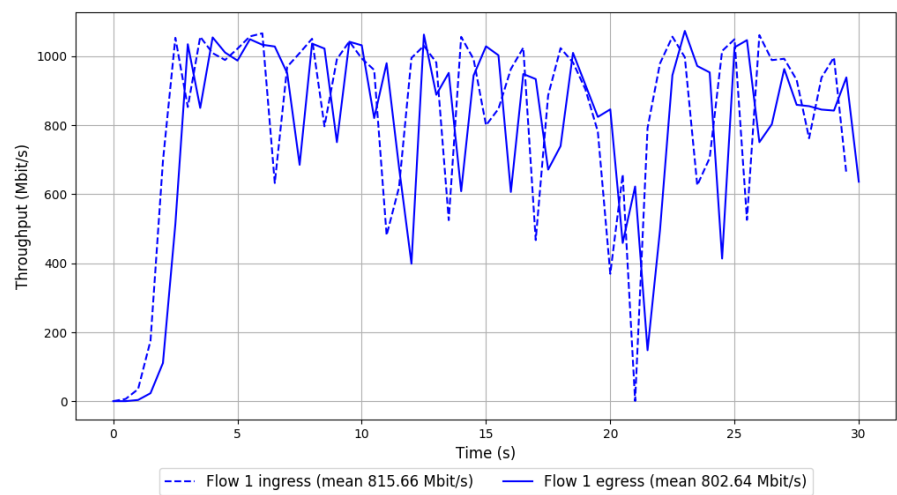


Run 5: Statistics of FillP

Start at: 2018-11-30 16:18:12  
End at: 2018-11-30 16:18:42  
Local clock offset: -0.092 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-11-30 17:18:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 802.64 Mbit/s  
95th percentile per-packet one-way delay: 191.284 ms  
Loss rate: 2.46%  
-- Flow 1:  
Average throughput: 802.64 Mbit/s  
95th percentile per-packet one-way delay: 191.284 ms  
Loss rate: 2.46%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-11-30 14:20:16

End at: 2018-11-30 14:20:46

Local clock offset: -0.143 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-11-30 17:19:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 848.79 Mbit/s

95th percentile per-packet one-way delay: 184.472 ms

Loss rate: 2.01%

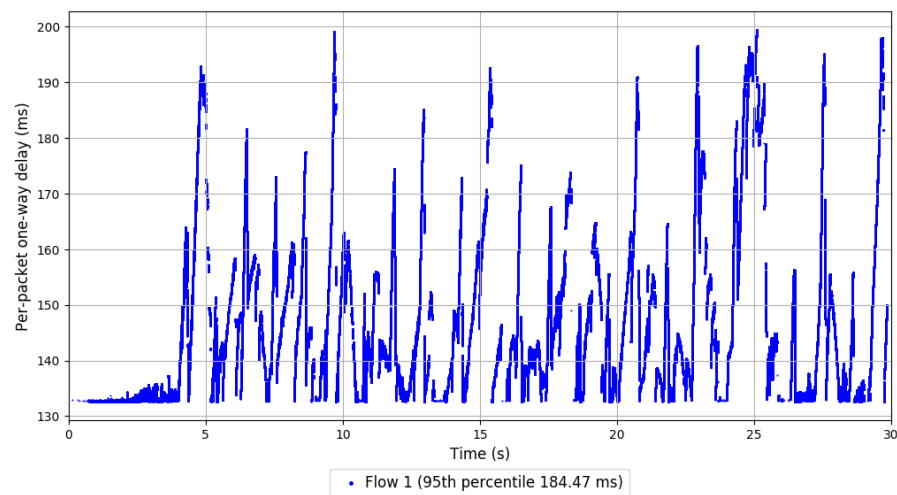
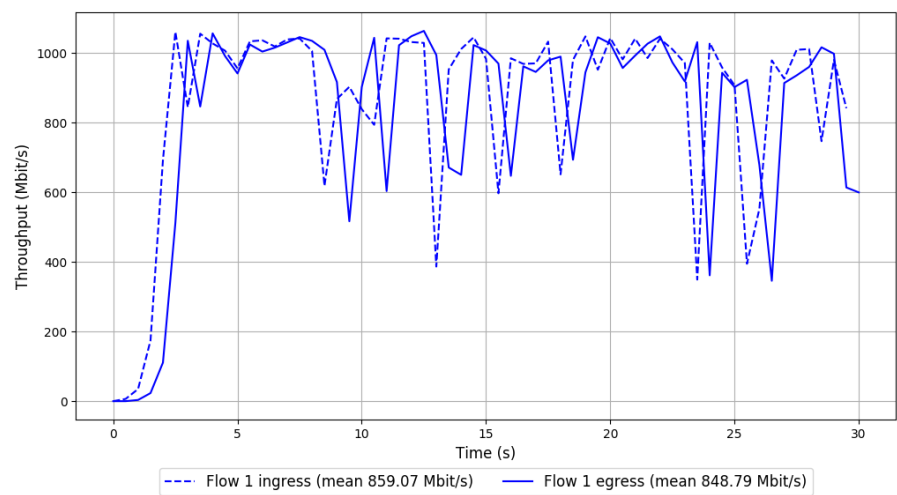
-- Flow 1:

Average throughput: 848.79 Mbit/s

95th percentile per-packet one-way delay: 184.472 ms

Loss rate: 2.01%

Run 1: Report of FillP-Sheep — Data Link

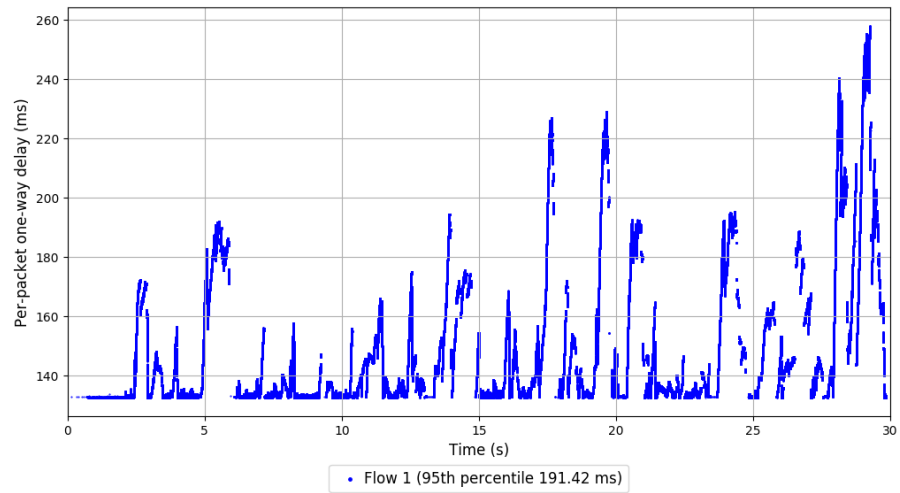
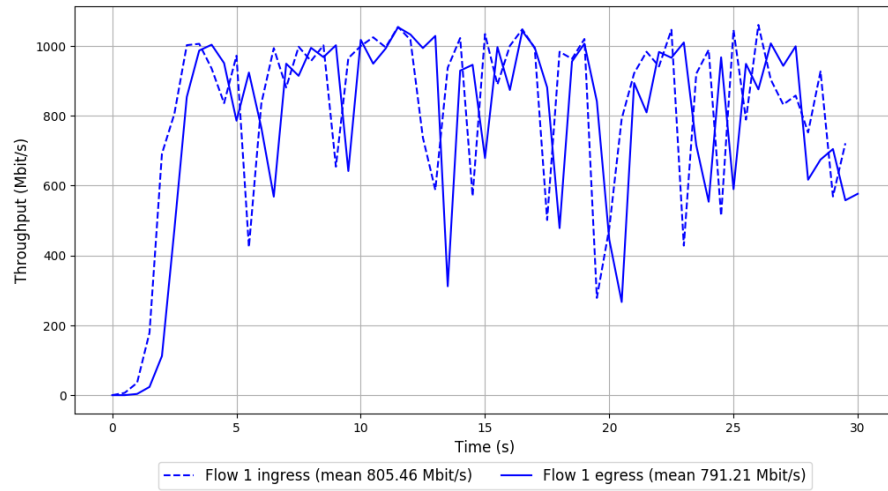


Run 2: Statistics of FillP-Sheep

Start at: 2018-11-30 14:50:45  
End at: 2018-11-30 14:51:15  
Local clock offset: -0.043 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-11-30 17:19:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 791.21 Mbit/s  
95th percentile per-packet one-way delay: 191.418 ms  
Loss rate: 2.64%  
-- Flow 1:  
Average throughput: 791.21 Mbit/s  
95th percentile per-packet one-way delay: 191.418 ms  
Loss rate: 2.64%

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



Run 3: Statistics of FillP-Sheep

Start at: 2018-11-30 15:21:14

End at: 2018-11-30 15:21:44

Local clock offset: -0.339 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-11-30 17:20:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 814.29 Mbit/s

95th percentile per-packet one-way delay: 193.966 ms

Loss rate: 2.68%

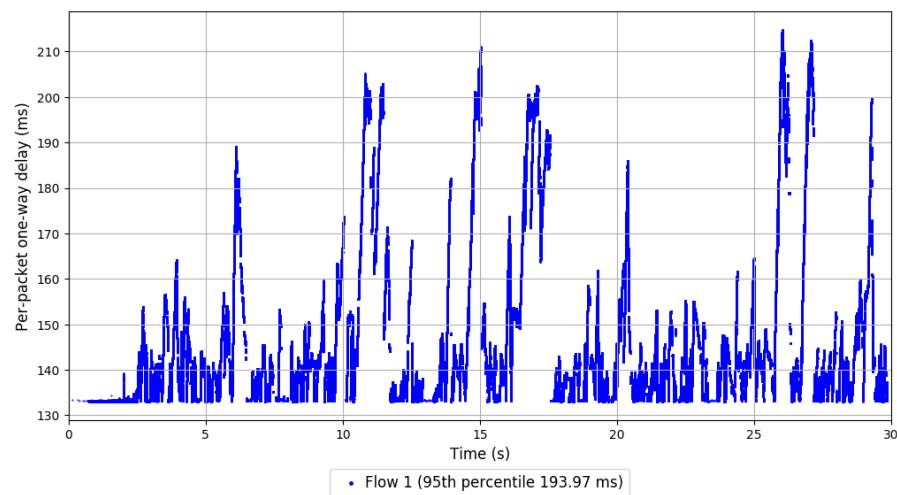
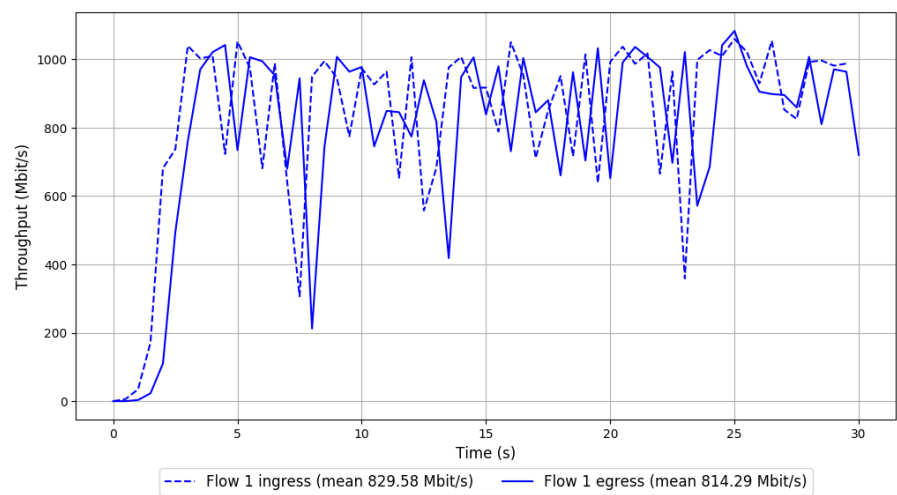
-- Flow 1:

Average throughput: 814.29 Mbit/s

95th percentile per-packet one-way delay: 193.966 ms

Loss rate: 2.68%

Run 3: Report of FillP-Sheep — Data Link

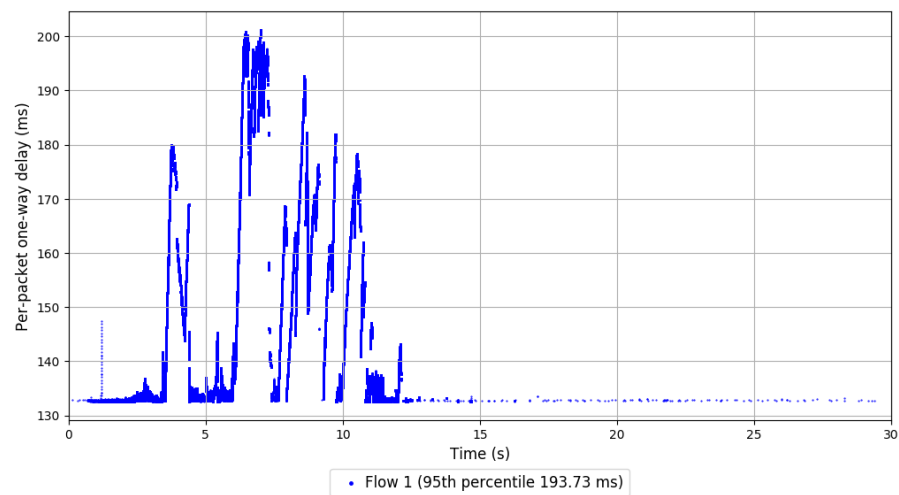
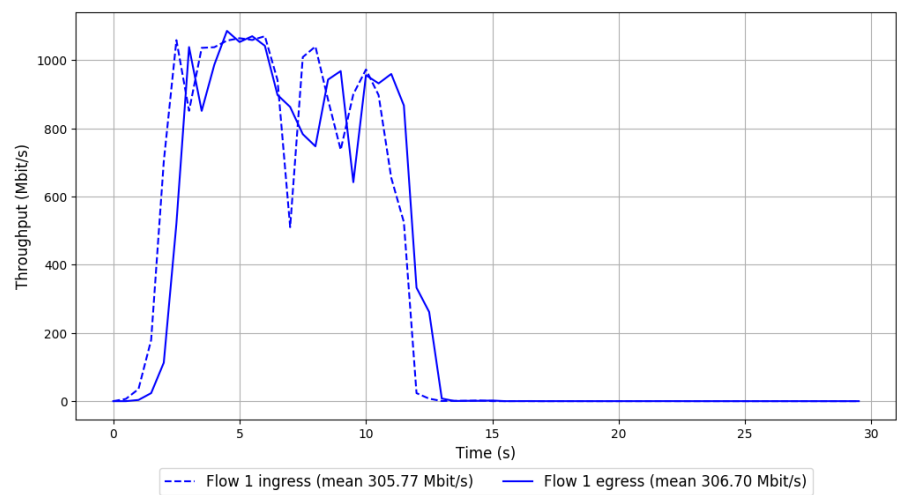


Run 4: Statistics of FillP-Sheep

Start at: 2018-11-30 15:53:18  
End at: 2018-11-30 15:53:48  
Local clock offset: 0.167 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-11-30 17:20:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 306.70 Mbit/s  
95th percentile per-packet one-way delay: 193.729 ms  
Loss rate: 1.71%  
-- Flow 1:  
Average throughput: 306.70 Mbit/s  
95th percentile per-packet one-way delay: 193.729 ms  
Loss rate: 1.71%

Run 4: Report of FillP-Sheep — Data Link

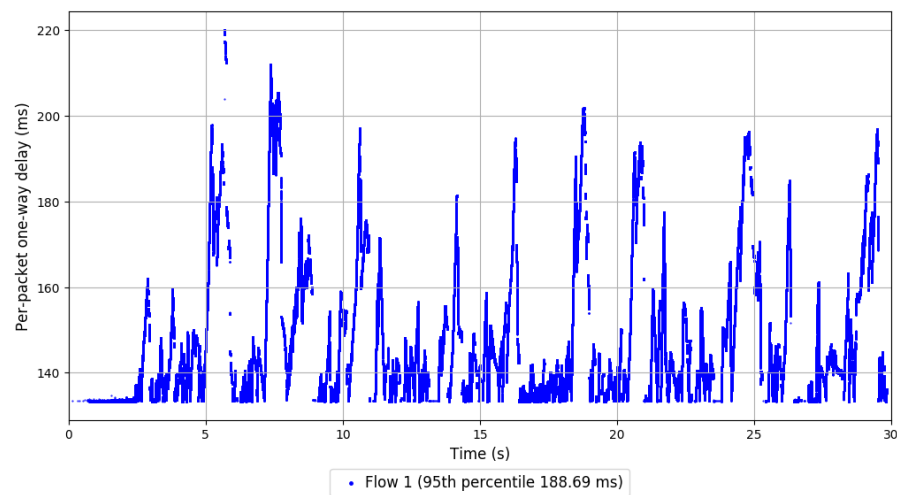
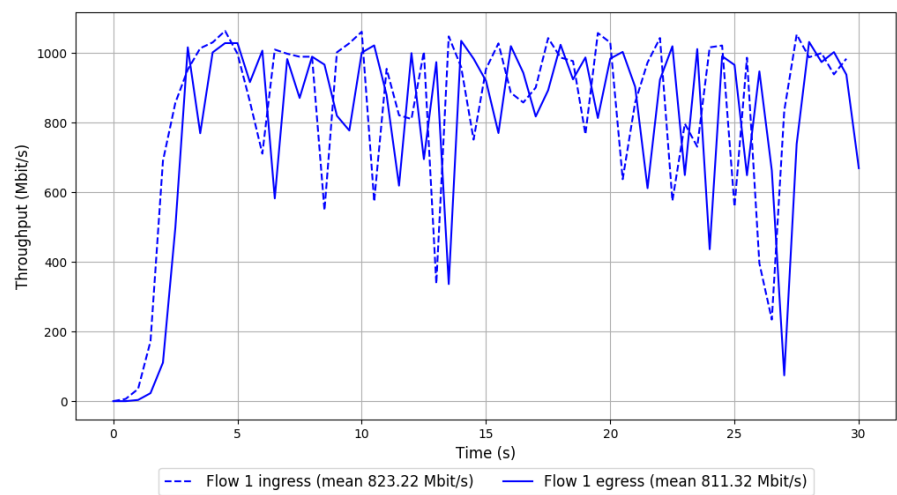


Run 5: Statistics of FillP-Sheep

Start at: 2018-11-30 16:23:01  
End at: 2018-11-30 16:23:31  
Local clock offset: -0.08 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-11-30 17:29:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 811.32 Mbit/s  
95th percentile per-packet one-way delay: 188.692 ms  
Loss rate: 2.33%  
-- Flow 1:  
Average throughput: 811.32 Mbit/s  
95th percentile per-packet one-way delay: 188.692 ms  
Loss rate: 2.33%

Run 5: Report of FillP-Sheep — Data Link

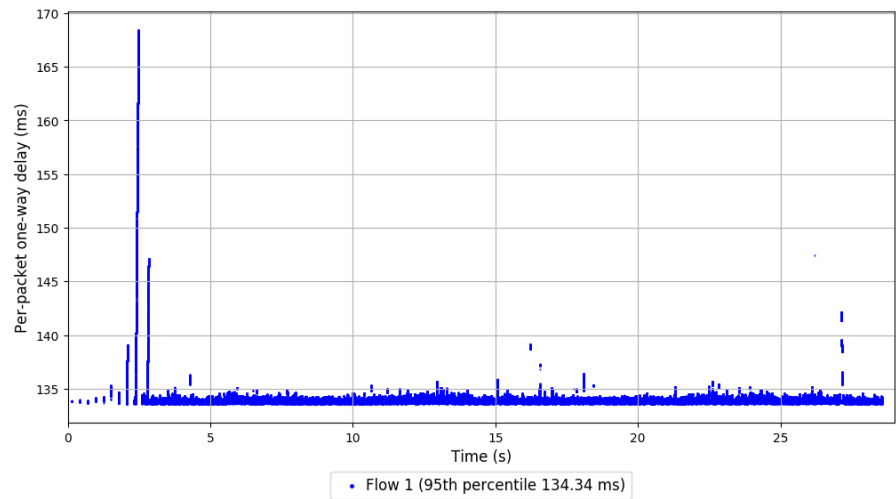
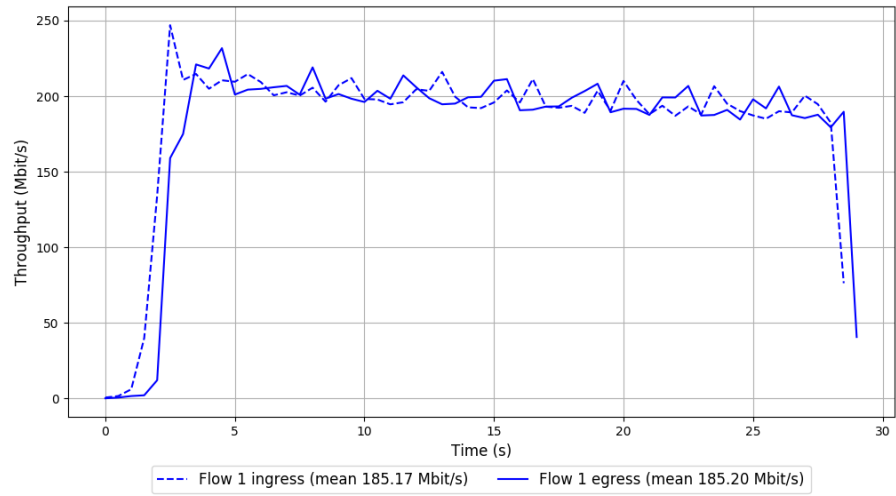


```
Run 1: Statistics of Indigo

Start at: 2018-11-30 14:10:52
End at: 2018-11-30 14:11:22
Local clock offset: 0.123 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-11-30 17:29:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.20 Mbit/s
95th percentile per-packet one-way delay: 134.343 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 185.20 Mbit/s
95th percentile per-packet one-way delay: 134.343 ms
Loss rate: 0.92%
```

## Run 1: Report of Indigo — Data Link

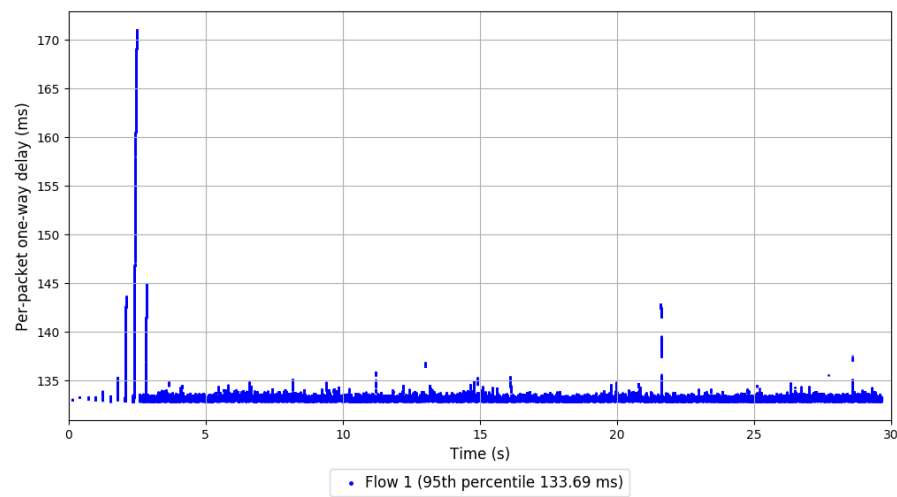
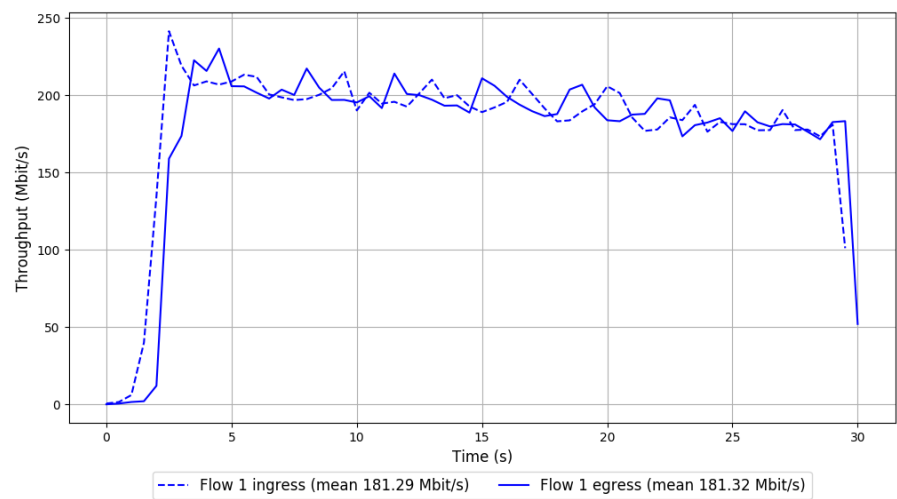


Run 2: Statistics of Indigo

Start at: 2018-11-30 14:40:36  
End at: 2018-11-30 14:41:06  
Local clock offset: 0.107 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-11-30 17:29:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 181.32 Mbit/s  
95th percentile per-packet one-way delay: 133.690 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 181.32 Mbit/s  
95th percentile per-packet one-way delay: 133.690 ms  
Loss rate: 0.87%

Run 2: Report of Indigo — Data Link

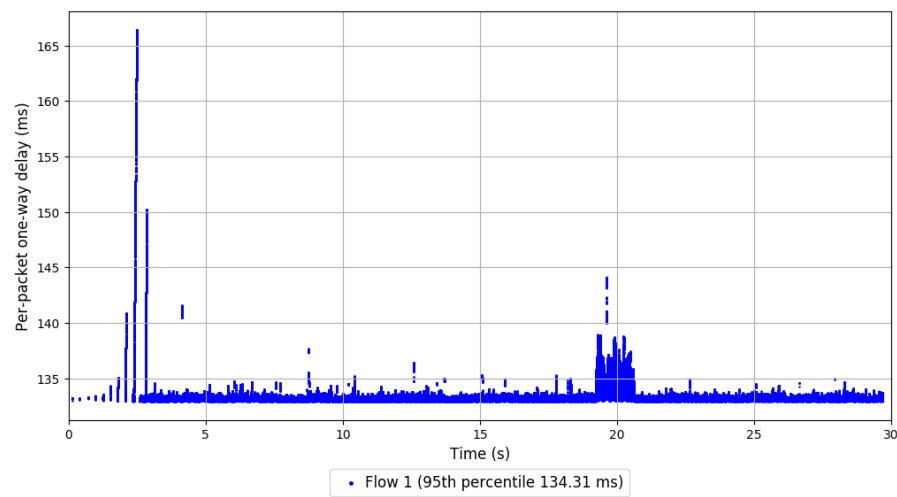
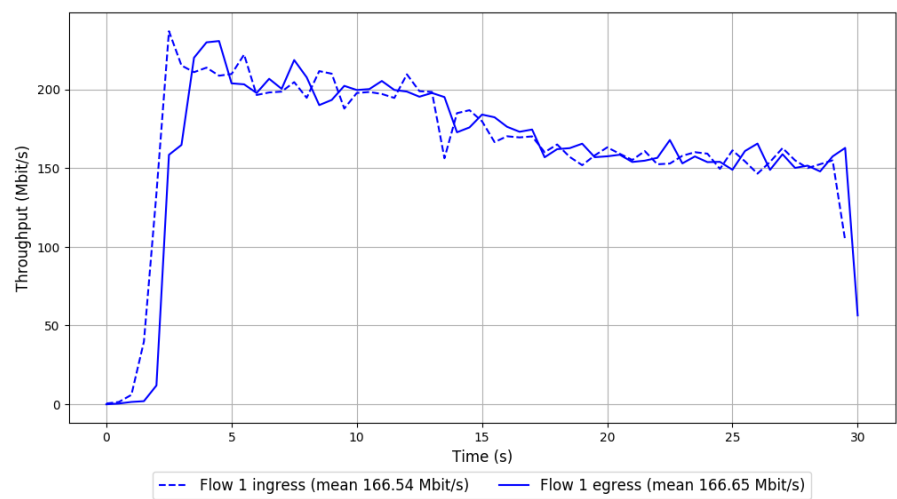


Run 3: Statistics of Indigo

Start at: 2018-11-30 15:10:58  
End at: 2018-11-30 15:11:28  
Local clock offset: -0.416 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-11-30 17:29:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 166.65 Mbit/s  
95th percentile per-packet one-way delay: 134.313 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 166.65 Mbit/s  
95th percentile per-packet one-way delay: 134.313 ms  
Loss rate: 0.83%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-11-30 15:42:44

End at: 2018-11-30 15:43:14

Local clock offset: -0.358 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-11-30 17:29:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.36 Mbit/s

95th percentile per-packet one-way delay: 133.290 ms

Loss rate: 0.91%

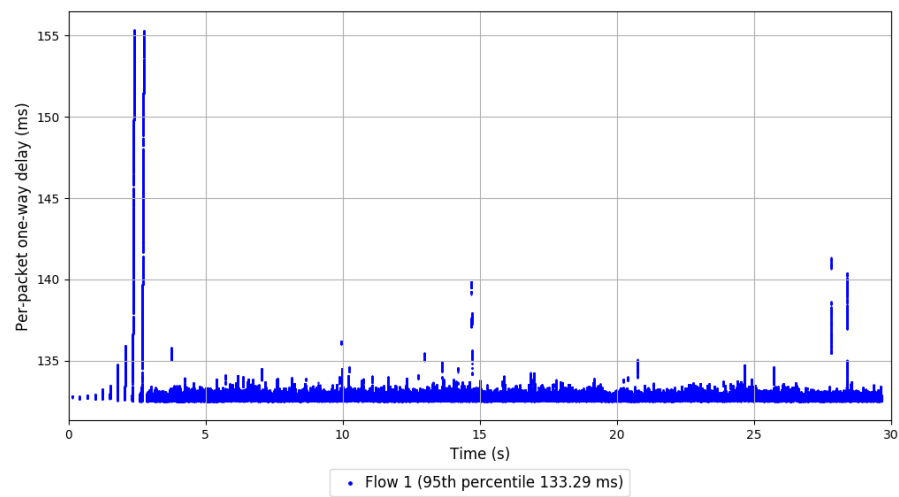
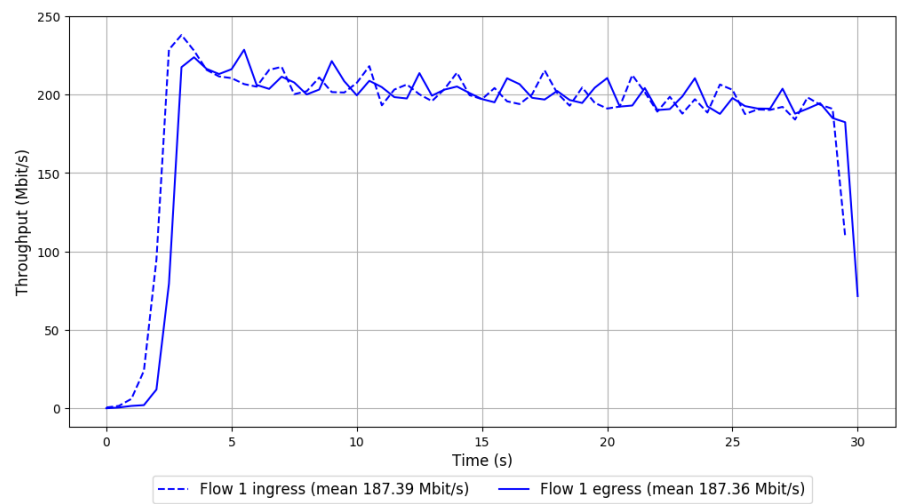
-- Flow 1:

Average throughput: 187.36 Mbit/s

95th percentile per-packet one-way delay: 133.290 ms

Loss rate: 0.91%

Run 4: Report of Indigo — Data Link

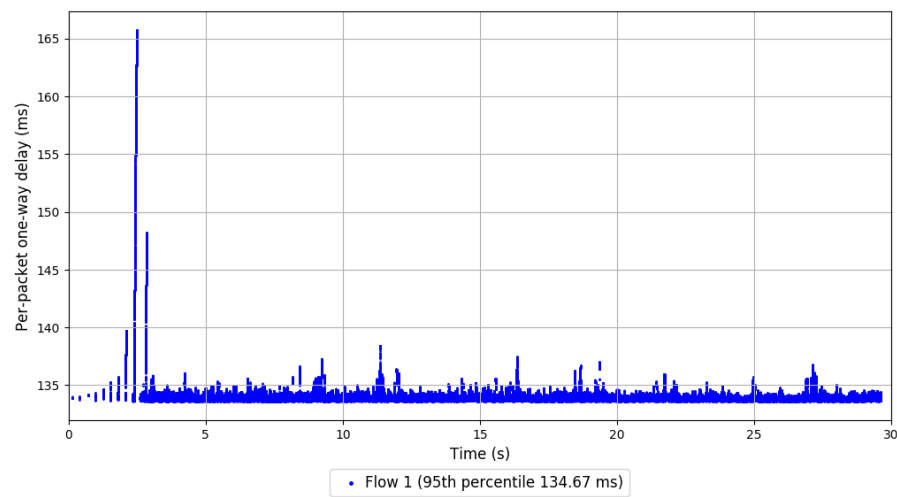
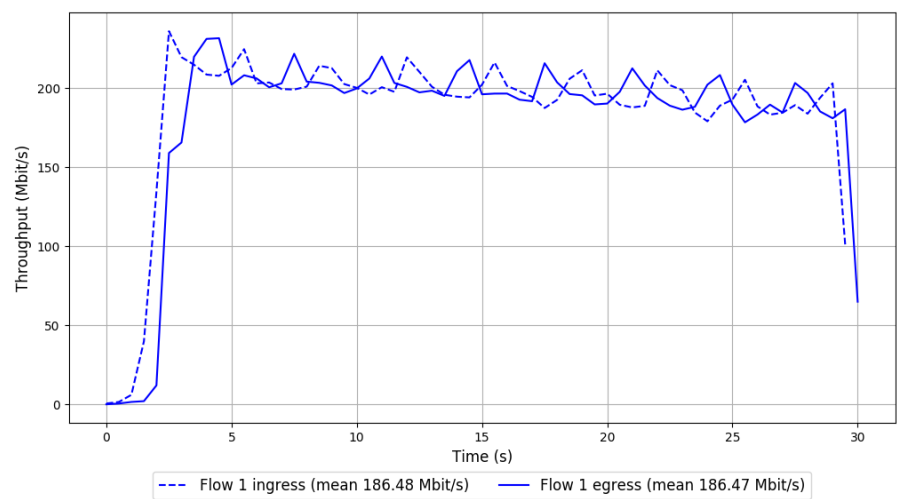


Run 5: Statistics of Indigo

Start at: 2018-11-30 16:13:26  
End at: 2018-11-30 16:13:56  
Local clock offset: 0.109 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-11-30 17:29:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 186.47 Mbit/s  
95th percentile per-packet one-way delay: 134.668 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 186.47 Mbit/s  
95th percentile per-packet one-way delay: 134.668 ms  
Loss rate: 0.91%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-96d2da3

Start at: 2018-11-30 14:06:18

End at: 2018-11-30 14:06:48

Local clock offset: -0.225 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-11-30 17:29:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 275.59 Mbit/s

95th percentile per-packet one-way delay: 170.568 ms

Loss rate: 1.09%

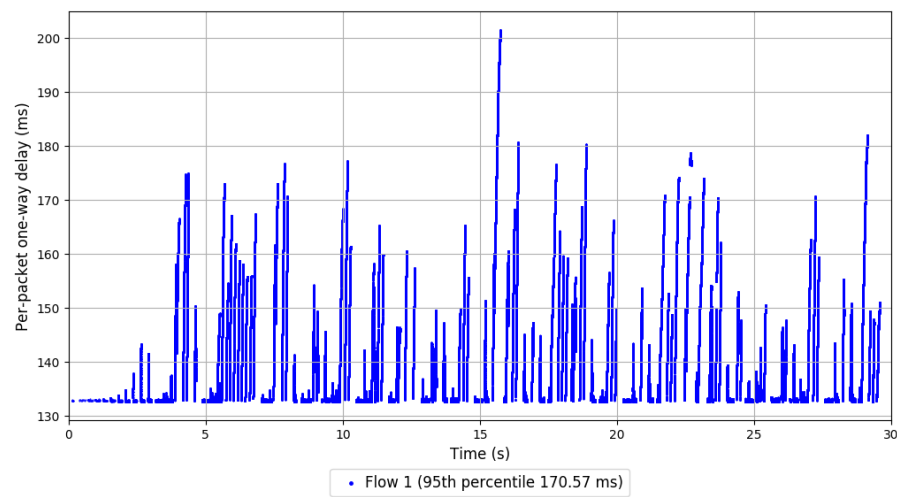
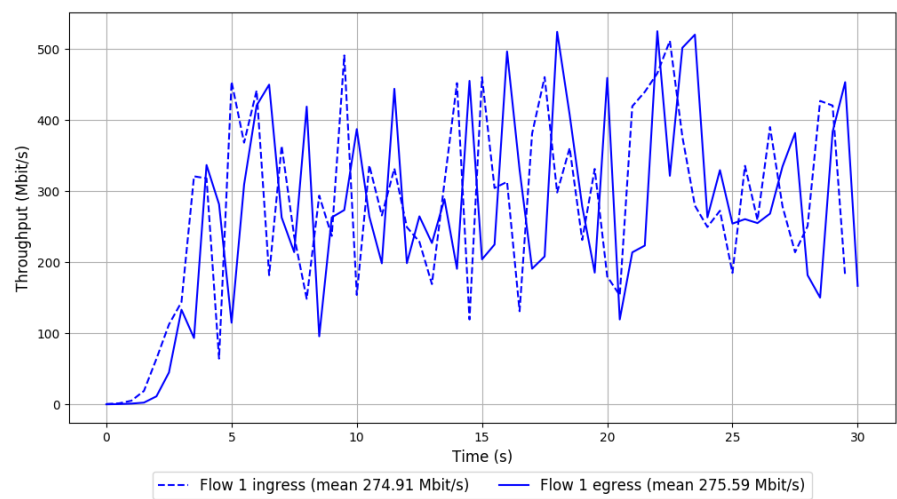
-- Flow 1:

Average throughput: 275.59 Mbit/s

95th percentile per-packet one-way delay: 170.568 ms

Loss rate: 1.09%

Run 1: Report of Indigo-96d2da3 — Data Link

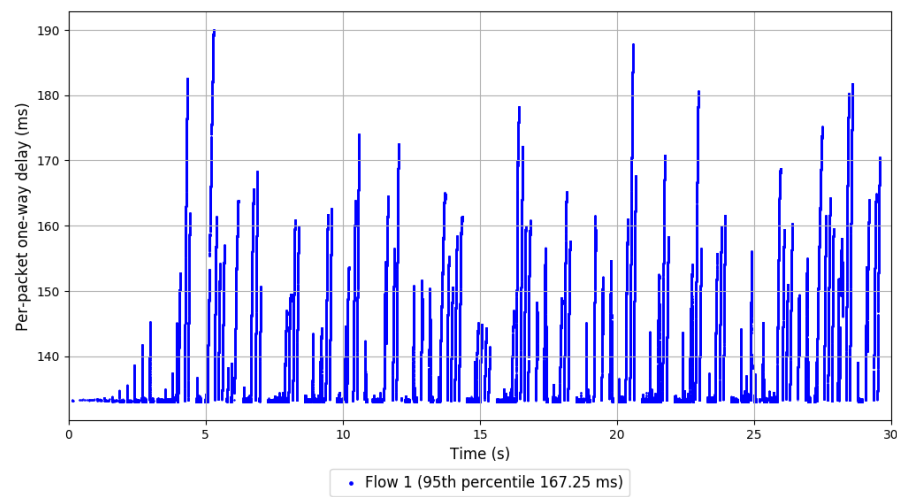
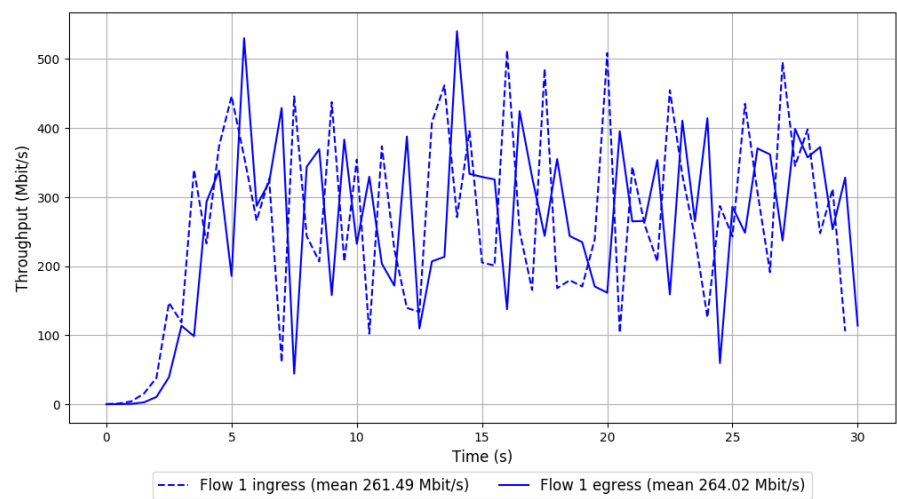


Run 2: Statistics of Indigo-96d2da3

Start at: 2018-11-30 14:35:45  
End at: 2018-11-30 14:36:15  
Local clock offset: -0.459 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-11-30 17:29:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 264.02 Mbit/s  
95th percentile per-packet one-way delay: 167.247 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 264.02 Mbit/s  
95th percentile per-packet one-way delay: 167.247 ms  
Loss rate: 0.68%

Run 2: Report of Indigo-96d2da3 — Data Link

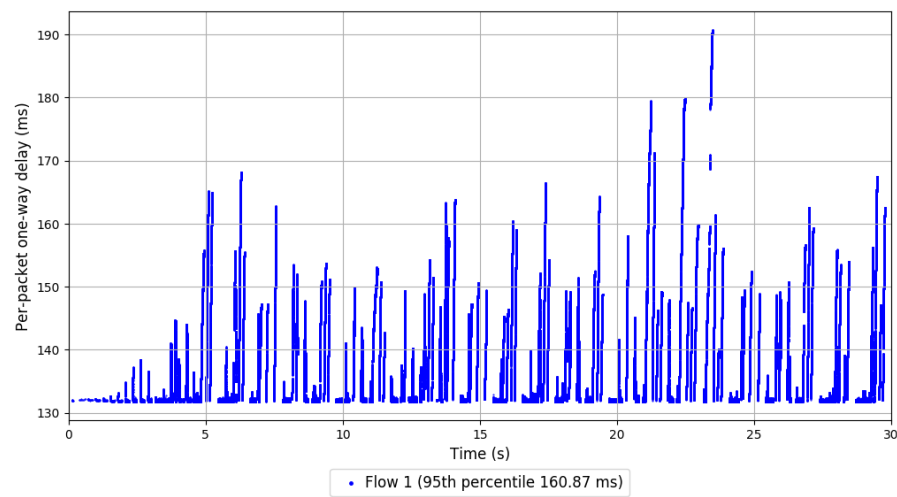
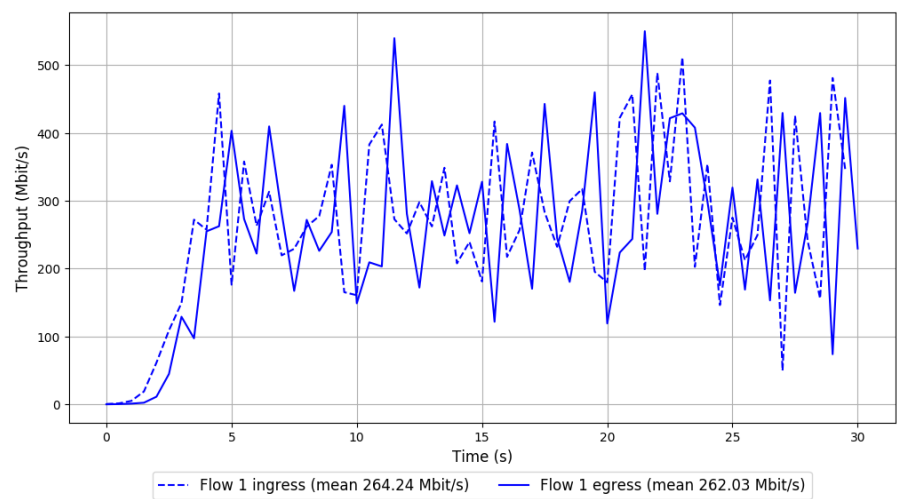


Run 3: Statistics of Indigo-96d2da3

Start at: 2018-11-30 15:06:44  
End at: 2018-11-30 15:07:14  
Local clock offset: -0.249 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-11-30 17:29:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 262.03 Mbit/s  
95th percentile per-packet one-way delay: 160.869 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 262.03 Mbit/s  
95th percentile per-packet one-way delay: 160.869 ms  
Loss rate: 1.45%

Run 3: Report of Indigo-96d2da3 — Data Link

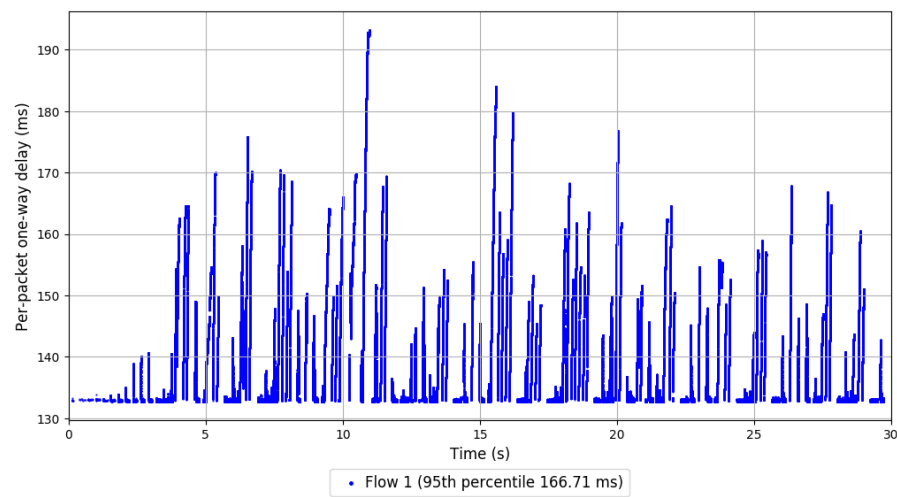
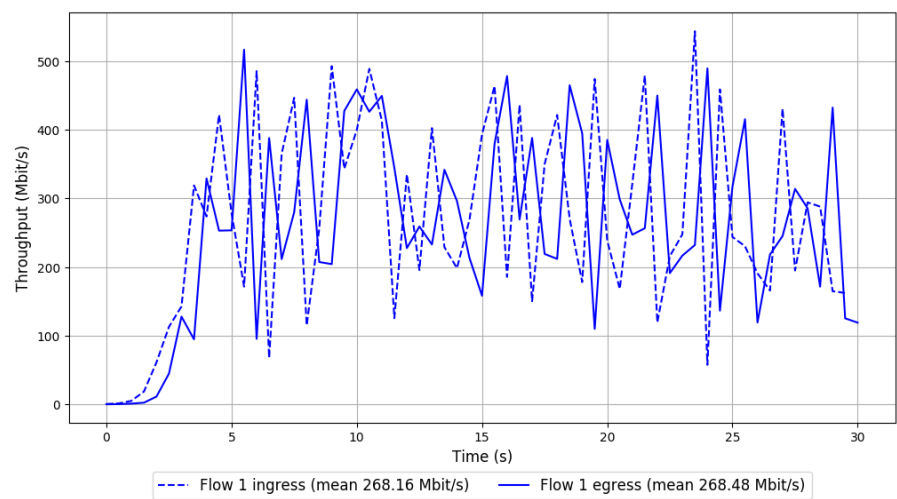


Run 4: Statistics of Indigo-96d2da3

Start at: 2018-11-30 15:38:09  
End at: 2018-11-30 15:38:39  
Local clock offset: -0.123 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-11-30 17:30:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 268.48 Mbit/s  
95th percentile per-packet one-way delay: 166.714 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 268.48 Mbit/s  
95th percentile per-packet one-way delay: 166.714 ms  
Loss rate: 0.58%

Run 4: Report of Indigo-96d2da3 — Data Link

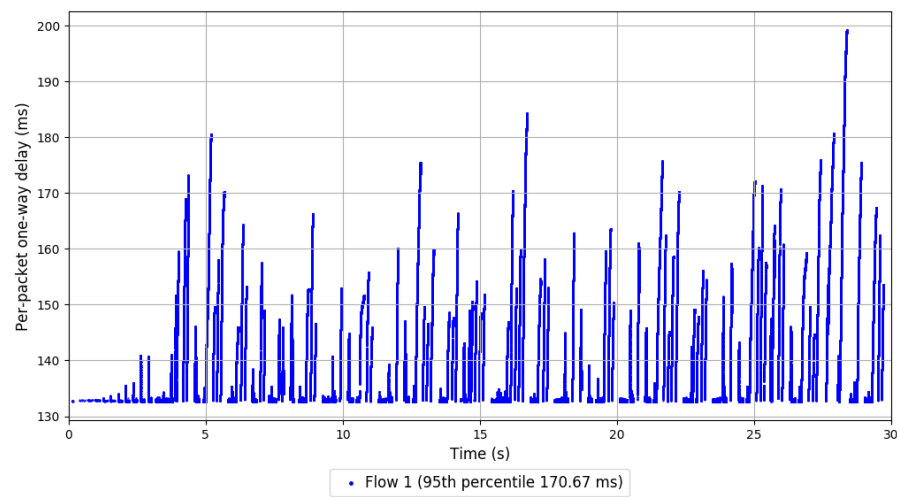
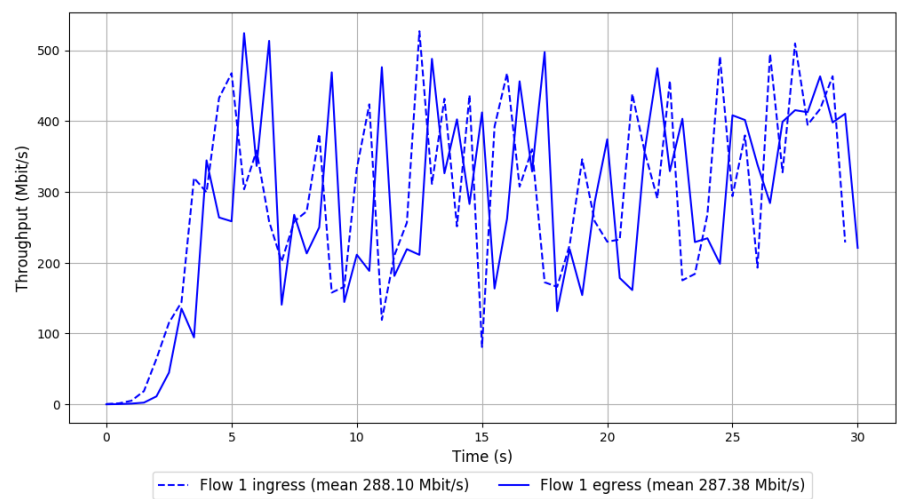


Run 5: Statistics of Indigo-96d2da3

Start at: 2018-11-30 16:09:05  
End at: 2018-11-30 16:09:35  
Local clock offset: -0.472 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-11-30 17:30:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 287.38 Mbit/s  
95th percentile per-packet one-way delay: 170.674 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 287.38 Mbit/s  
95th percentile per-packet one-way delay: 170.674 ms  
Loss rate: 0.70%

Run 5: Report of Indigo-96d2da3 — Data Link

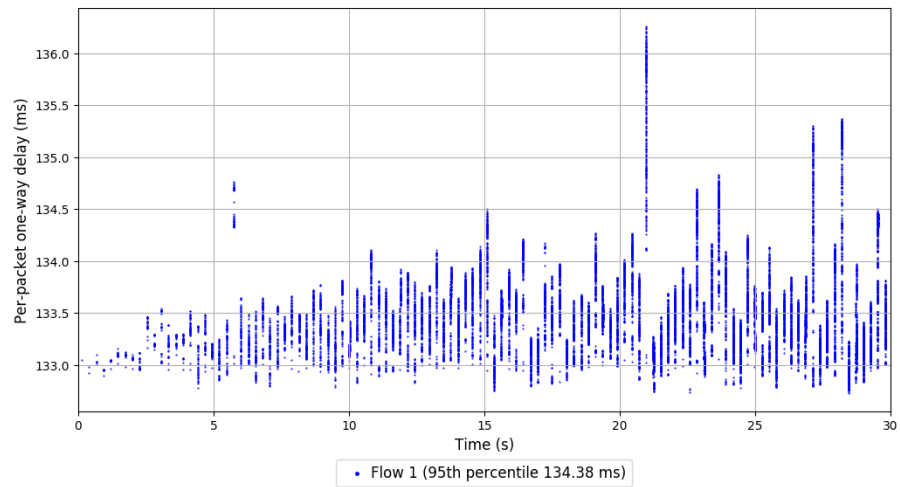
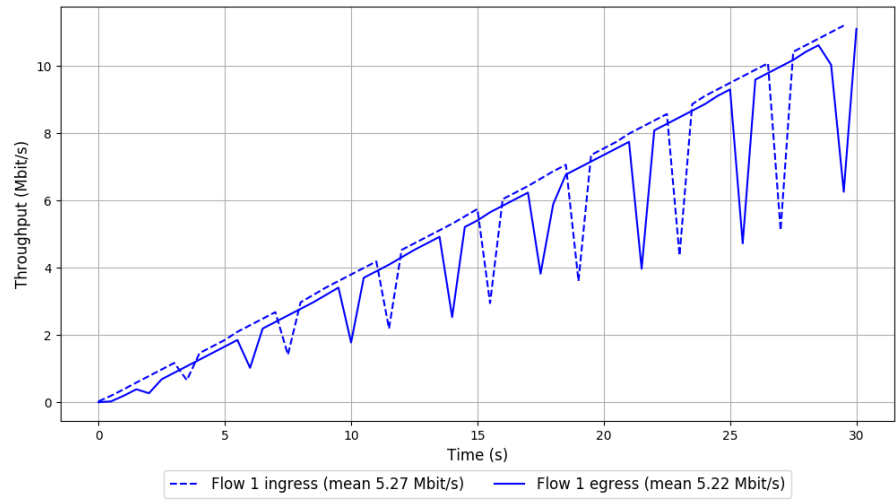


```
Run 1: Statistics of LEDBAT

Start at: 2018-11-30 14:09:40
End at: 2018-11-30 14:10:10
Local clock offset: 0.264 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-11-30 17:30:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 134.376 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 134.376 ms
Loss rate: 1.78%
```

# Run 1: Report of LEDBAT — Data Link

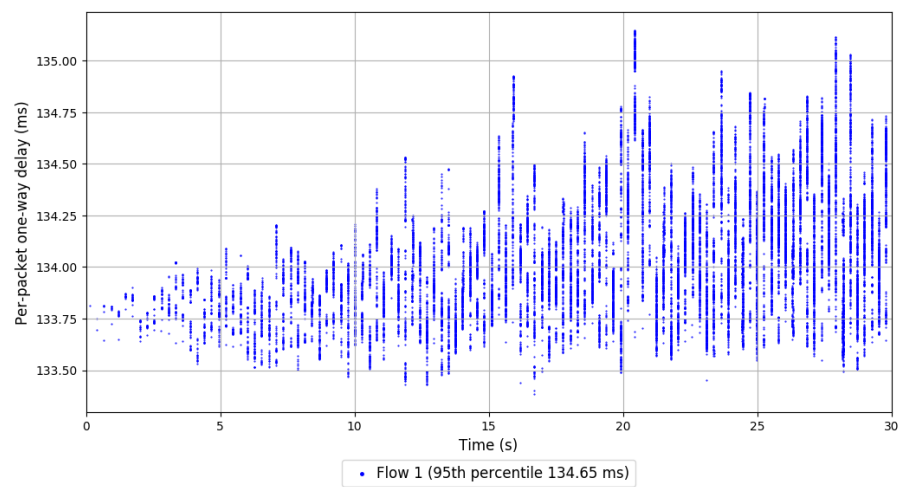
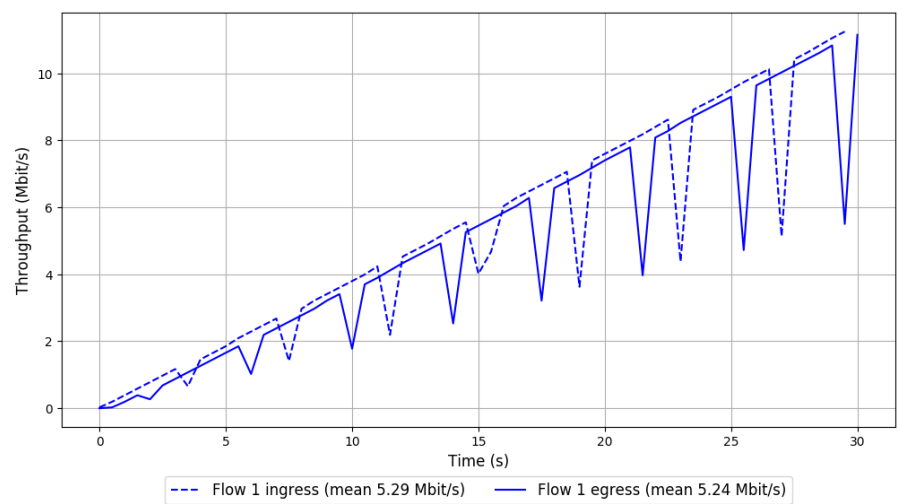


Run 2: Statistics of LEDBAT

Start at: 2018-11-30 14:39:24  
End at: 2018-11-30 14:39:54  
Local clock offset: -0.007 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-11-30 17:30:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.24 Mbit/s  
95th percentile per-packet one-way delay: 134.654 ms  
Loss rate: 1.79%  
-- Flow 1:  
Average throughput: 5.24 Mbit/s  
95th percentile per-packet one-way delay: 134.654 ms  
Loss rate: 1.79%

Run 2: Report of LEDBAT — Data Link

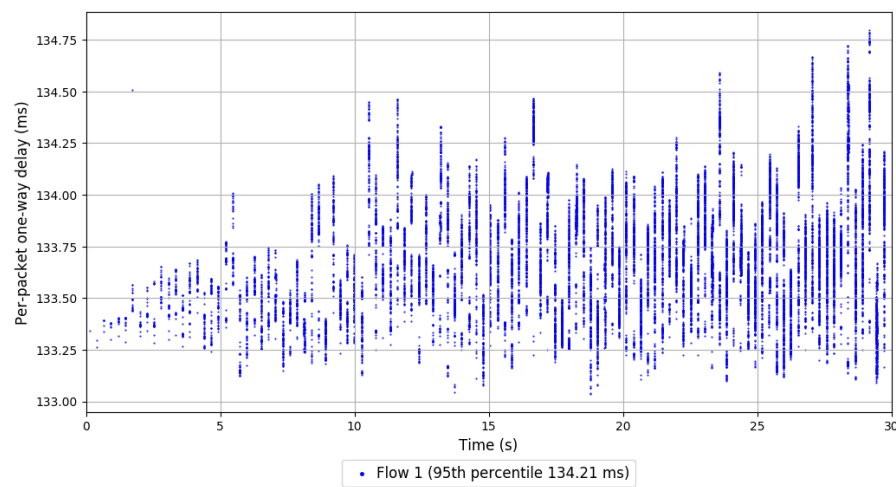
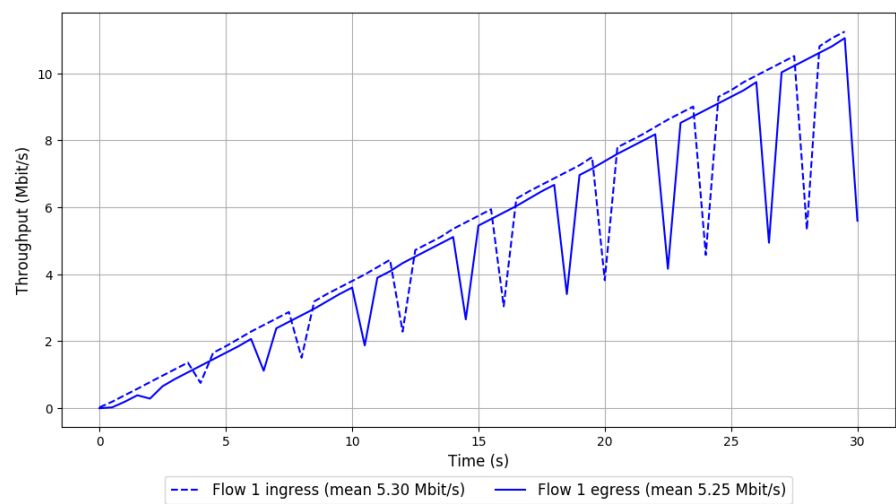


Run 3: Statistics of LEDBAT

Start at: 2018-11-30 15:09:46  
End at: 2018-11-30 15:10:16  
Local clock offset: -0.039 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-11-30 17:30:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.25 Mbit/s  
95th percentile per-packet one-way delay: 134.211 ms  
Loss rate: 1.79%  
-- Flow 1:  
Average throughput: 5.25 Mbit/s  
95th percentile per-packet one-way delay: 134.211 ms  
Loss rate: 1.79%

Run 3: Report of LEDBAT — Data Link

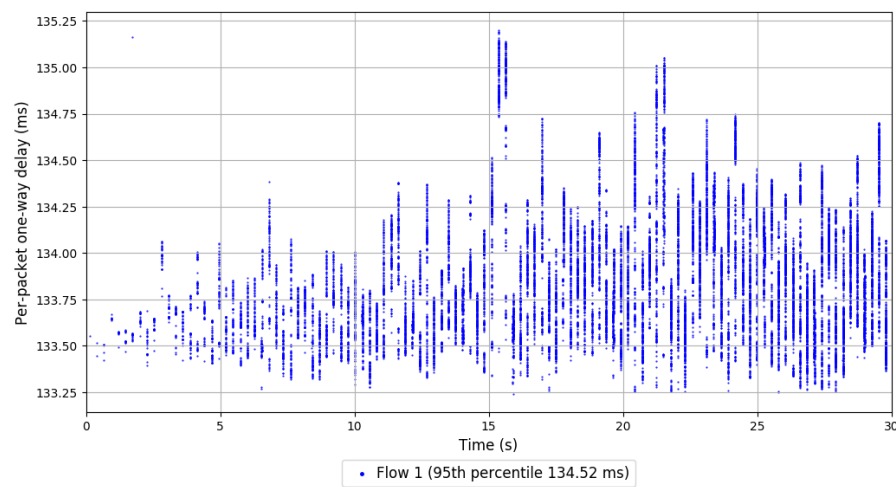
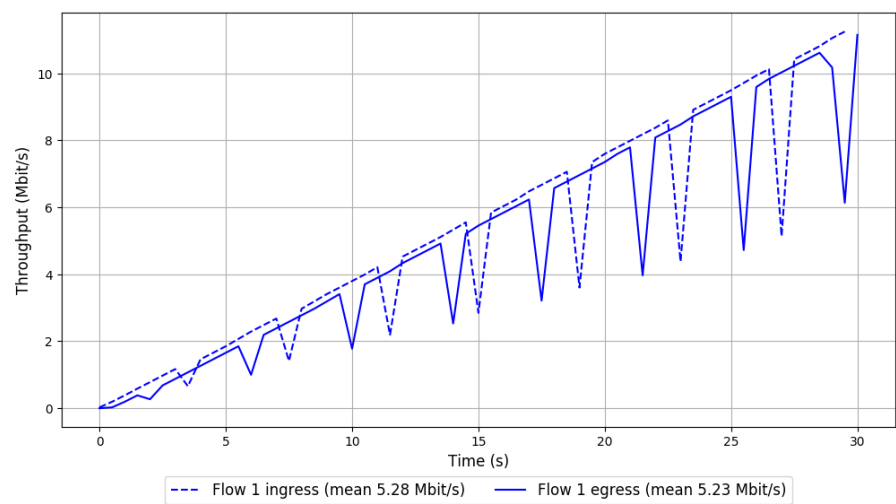


Run 4: Statistics of LEDBAT

Start at: 2018-11-30 15:41:32  
End at: 2018-11-30 15:42:02  
Local clock offset: -0.129 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-11-30 17:30:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 134.516 ms  
Loss rate: 1.79%  
-- Flow 1:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 134.516 ms  
Loss rate: 1.79%

Run 4: Report of LEDBAT — Data Link

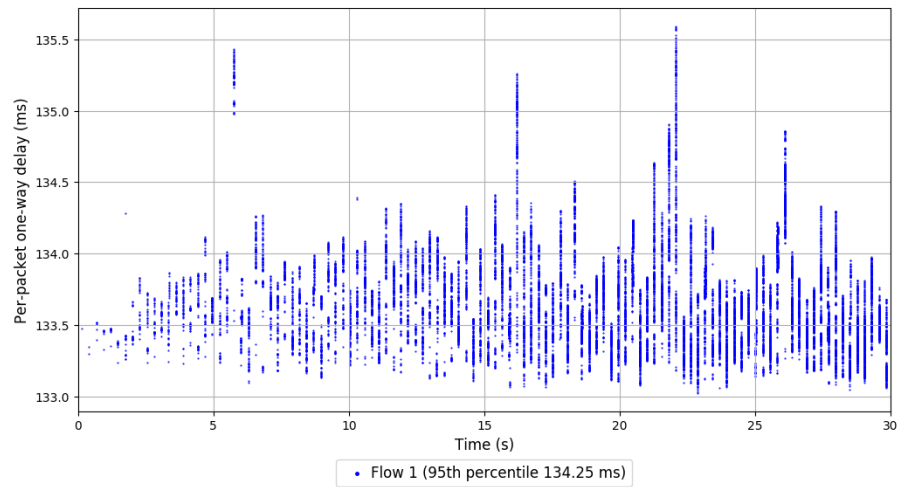
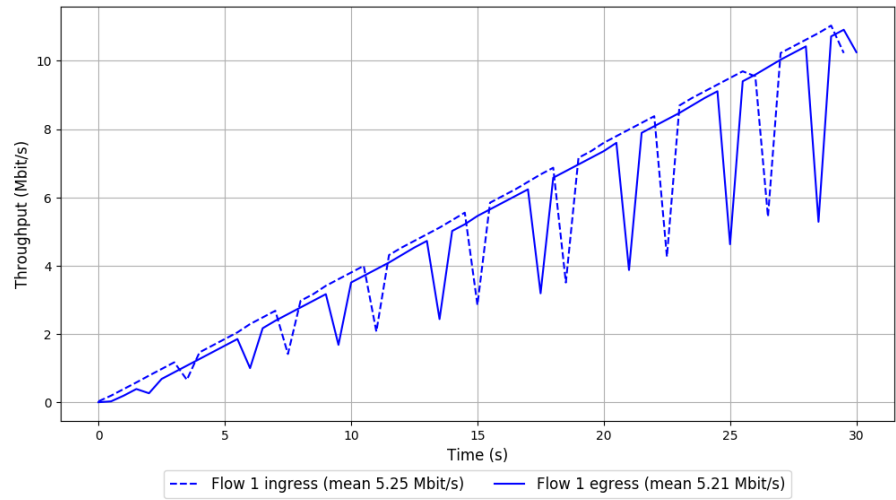


Run 5: Statistics of LEDBAT

Start at: 2018-11-30 16:12:14  
End at: 2018-11-30 16:12:44  
Local clock offset: -0.078 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-11-30 17:30:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.21 Mbit/s  
95th percentile per-packet one-way delay: 134.250 ms  
Loss rate: 1.76%  
-- Flow 1:  
Average throughput: 5.21 Mbit/s  
95th percentile per-packet one-way delay: 134.250 ms  
Loss rate: 1.76%

## Run 5: Report of LEDBAT — Data Link

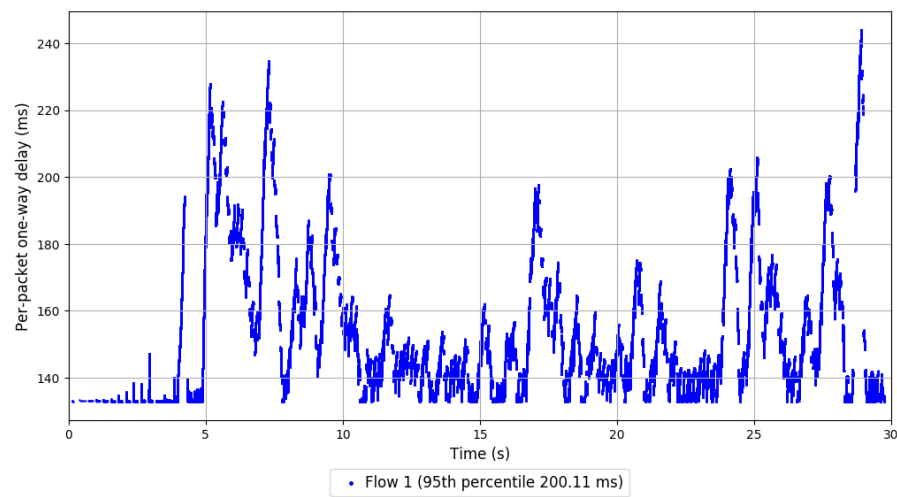
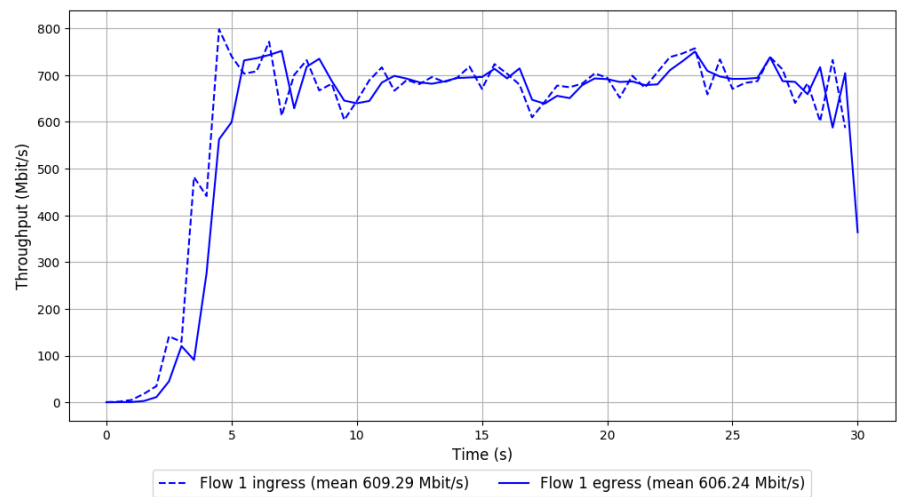


```
Run 1: Statistics of Indigo-Muses

Start at: 2018-11-30 14:14:03
End at: 2018-11-30 14:14:33
Local clock offset: -0.367 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-11-30 17:38:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 606.24 Mbit/s
95th percentile per-packet one-way delay: 200.114 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 606.24 Mbit/s
95th percentile per-packet one-way delay: 200.114 ms
Loss rate: 1.39%
```

Run 1: Report of Indigo-Muses — Data Link



Run 2: Statistics of Indigo-Muses

Start at: 2018-11-30 14:44:04

End at: 2018-11-30 14:44:34

Local clock offset: 0.349 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-11-30 17:39:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 618.34 Mbit/s

95th percentile per-packet one-way delay: 199.777 ms

Loss rate: 1.38%

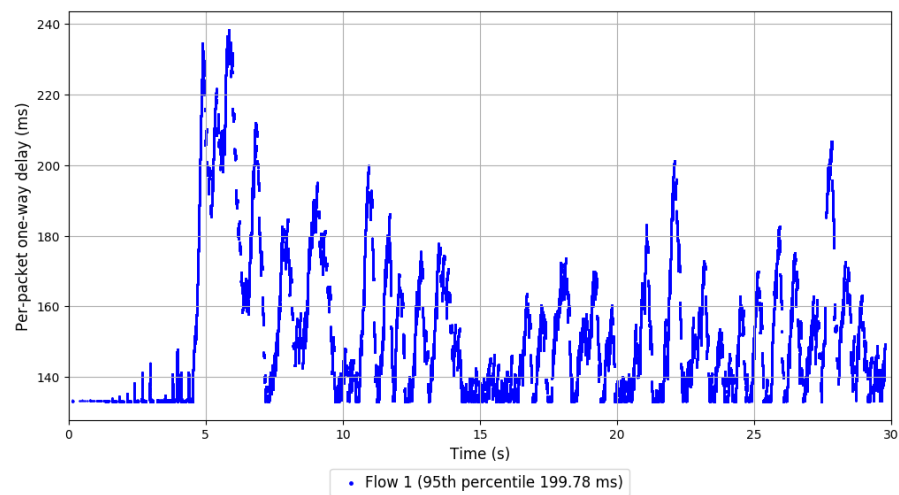
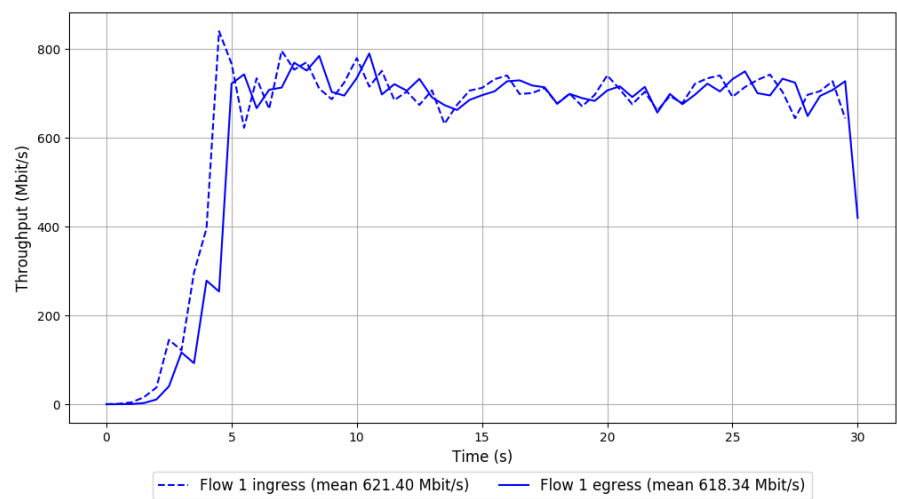
-- Flow 1:

Average throughput: 618.34 Mbit/s

95th percentile per-packet one-way delay: 199.777 ms

Loss rate: 1.38%

Run 2: Report of Indigo-Muses — Data Link

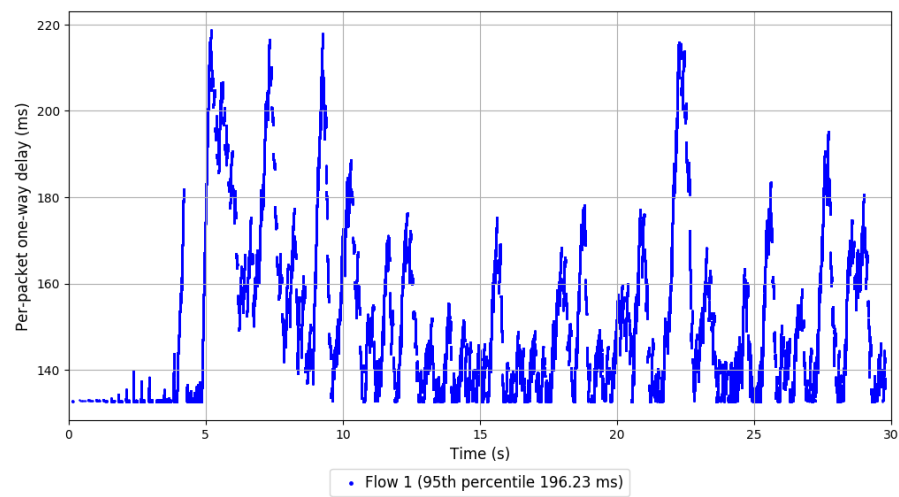
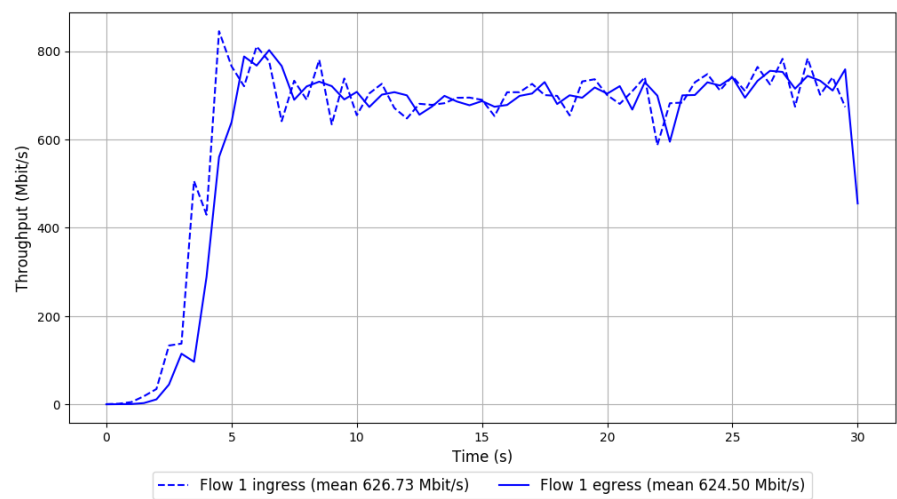


Run 3: Statistics of Indigo-Muses

Start at: 2018-11-30 15:14:00  
End at: 2018-11-30 15:14:30  
Local clock offset: -0.064 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-11-30 17:39:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 624.50 Mbit/s  
95th percentile per-packet one-way delay: 196.231 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 624.50 Mbit/s  
95th percentile per-packet one-way delay: 196.231 ms  
Loss rate: 1.24%

Run 3: Report of Indigo-Muses — Data Link

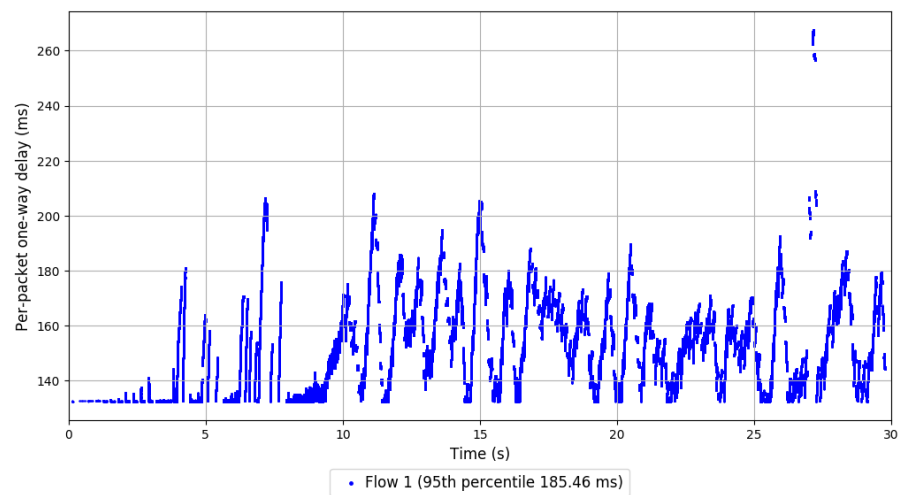
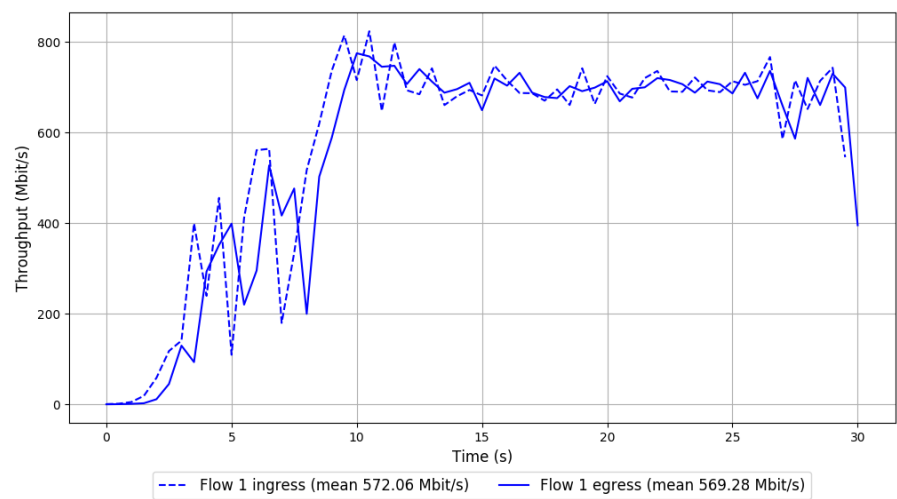


Run 4: Statistics of Indigo-Muses

Start at: 2018-11-30 15:46:12  
End at: 2018-11-30 15:46:42  
Local clock offset: -0.488 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-11-30 17:39:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 569.28 Mbit/s  
95th percentile per-packet one-way delay: 185.456 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 569.28 Mbit/s  
95th percentile per-packet one-way delay: 185.456 ms  
Loss rate: 1.38%

Run 4: Report of Indigo-Muses — Data Link

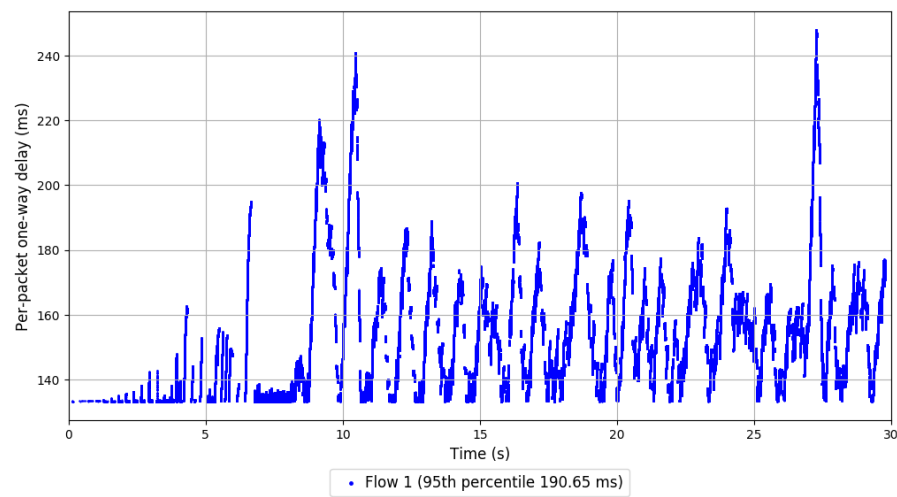
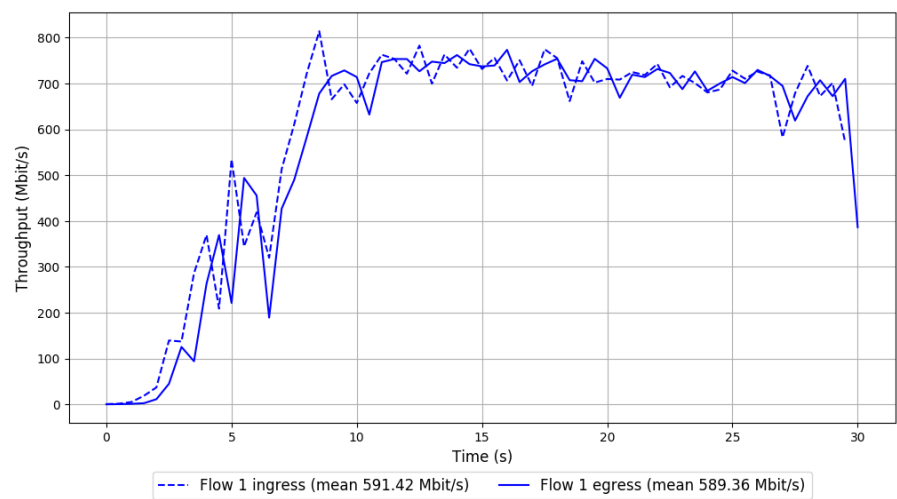


Run 5: Statistics of Indigo-Muses

Start at: 2018-11-30 16:16:23  
End at: 2018-11-30 16:16:53  
Local clock offset: -0.29 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-11-30 17:42:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 589.36 Mbit/s  
95th percentile per-packet one-way delay: 190.647 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 589.36 Mbit/s  
95th percentile per-packet one-way delay: 190.647 ms  
Loss rate: 1.24%

Run 5: Report of Indigo-Muses — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-11-30 14:07:49

End at: 2018-11-30 14:08:19

Local clock offset: -0.384 ms

Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-11-30 17:45:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 397.84 Mbit/s

95th percentile per-packet one-way delay: 250.520 ms

Loss rate: 5.23%

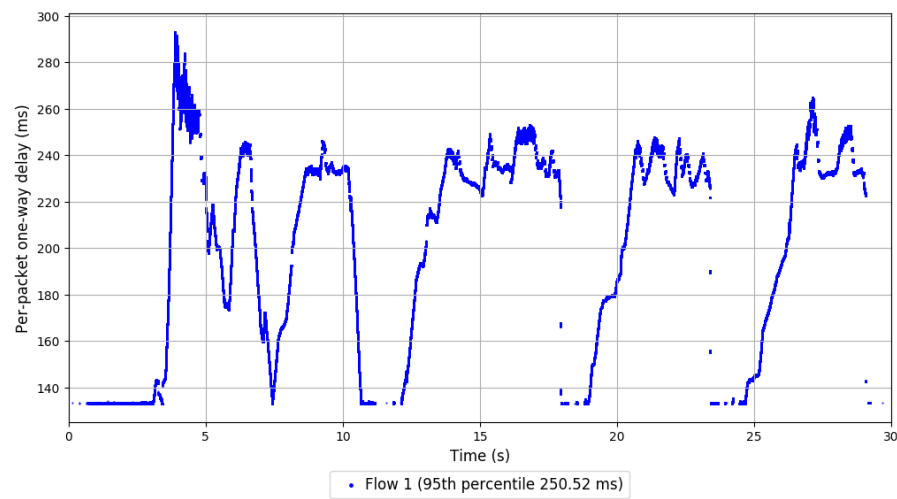
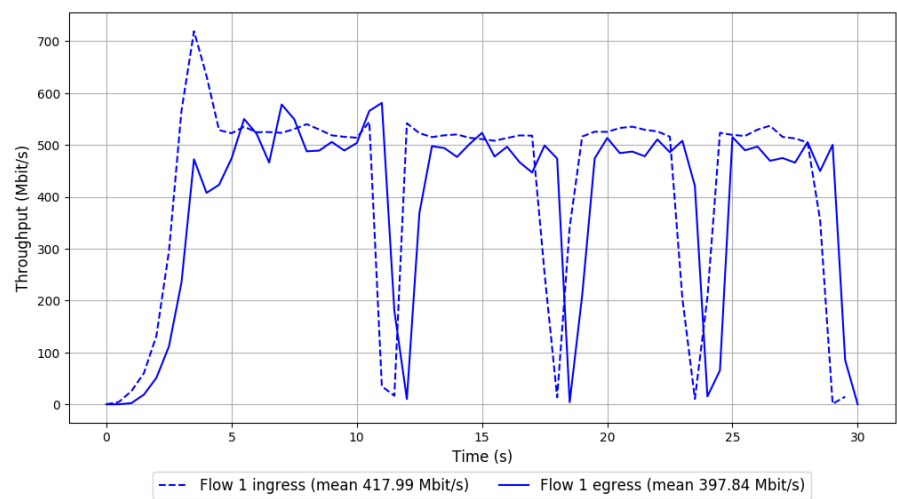
-- Flow 1:

Average throughput: 397.84 Mbit/s

95th percentile per-packet one-way delay: 250.520 ms

Loss rate: 5.23%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-11-30 14:37:20

End at: 2018-11-30 14:37:50

Local clock offset: -0.056 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-11-30 17:45:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 381.13 Mbit/s

95th percentile per-packet one-way delay: 245.724 ms

Loss rate: 5.33%

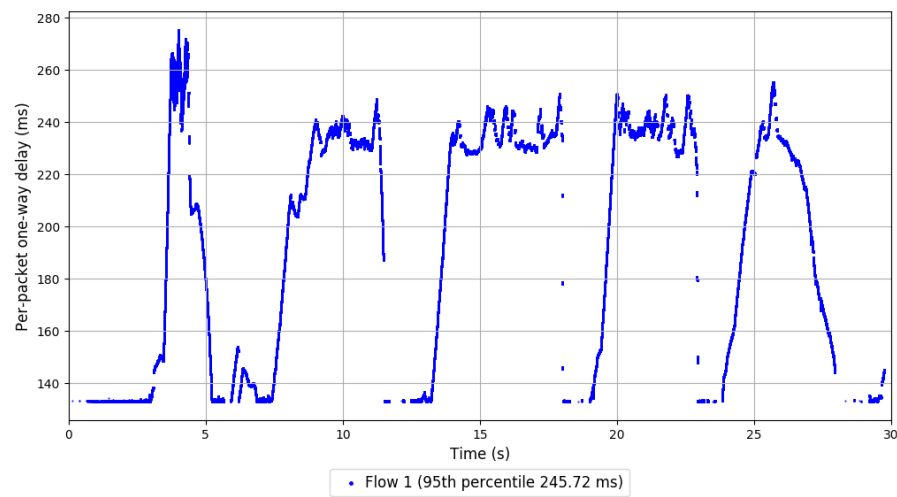
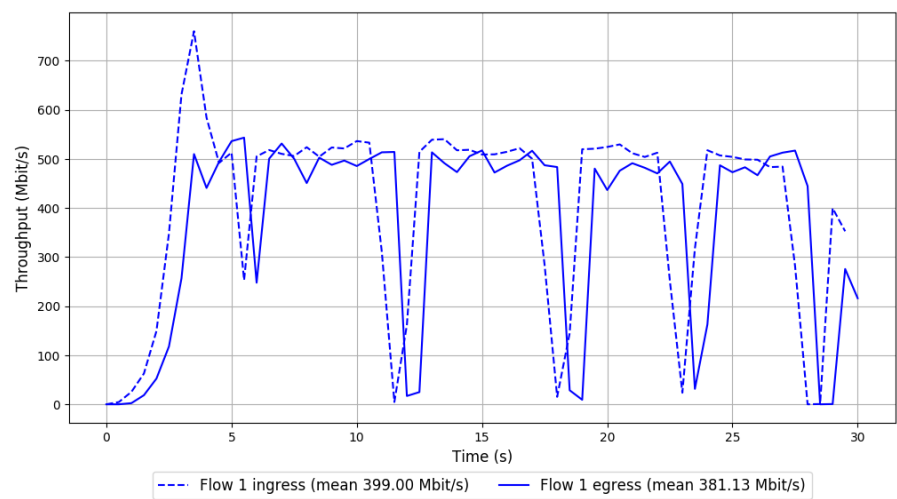
-- Flow 1:

Average throughput: 381.13 Mbit/s

95th percentile per-packet one-way delay: 245.724 ms

Loss rate: 5.33%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-11-30 15:08:11

End at: 2018-11-30 15:08:41

Local clock offset: 0.003 ms

Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-11-30 17:45:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 319.01 Mbit/s

95th percentile per-packet one-way delay: 239.620 ms

Loss rate: 4.17%

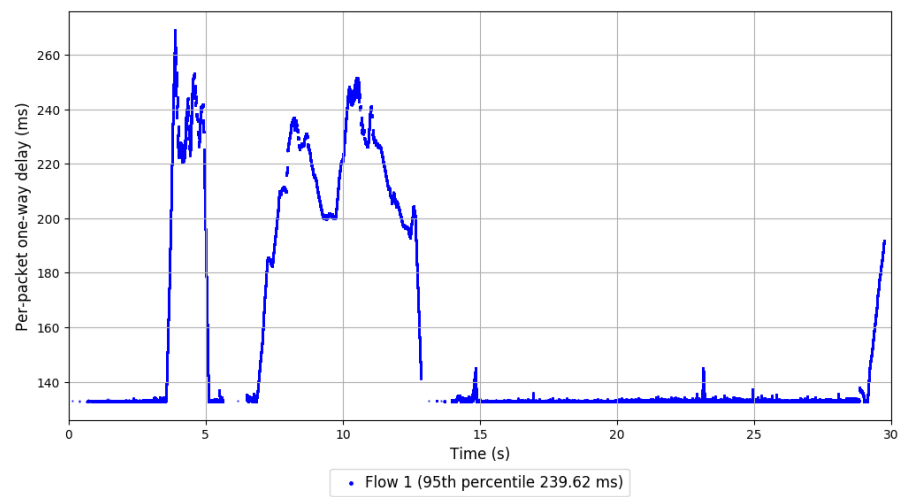
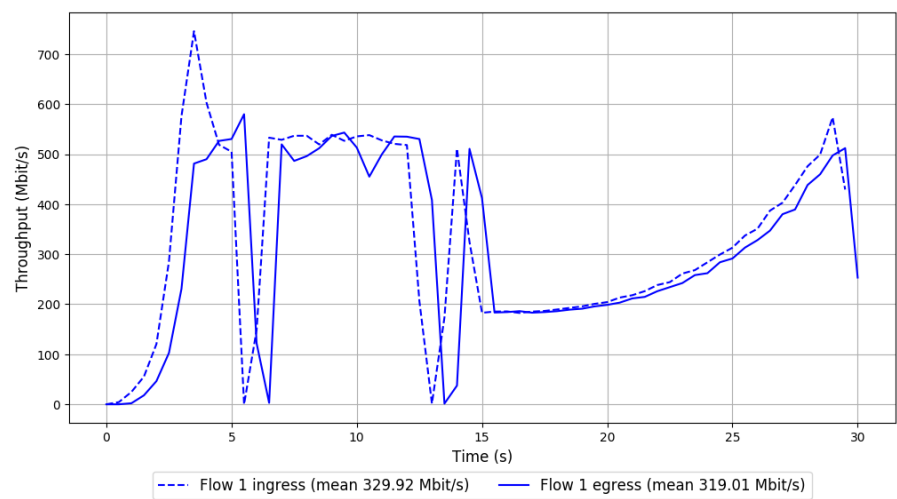
-- Flow 1:

Average throughput: 319.01 Mbit/s

95th percentile per-packet one-way delay: 239.620 ms

Loss rate: 4.17%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-11-30 15:39:40

End at: 2018-11-30 15:40:10

Local clock offset: 0.073 ms

Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-11-30 17:50:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 294.74 Mbit/s

95th percentile per-packet one-way delay: 250.637 ms

Loss rate: 6.10%

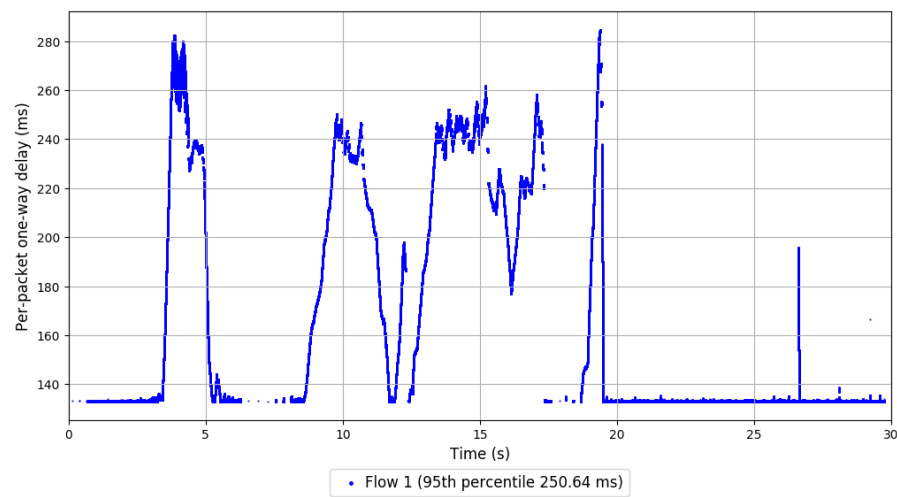
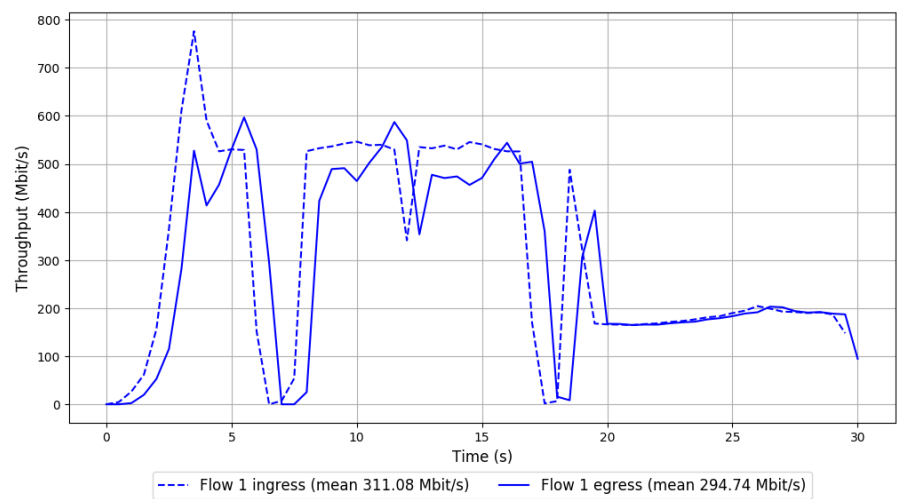
-- Flow 1:

Average throughput: 294.74 Mbit/s

95th percentile per-packet one-way delay: 250.637 ms

Loss rate: 6.10%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-11-30 16:10:35

End at: 2018-11-30 16:11:05

Local clock offset: -0.094 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-11-30 17:52:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 316.63 Mbit/s

95th percentile per-packet one-way delay: 246.083 ms

Loss rate: 4.82%

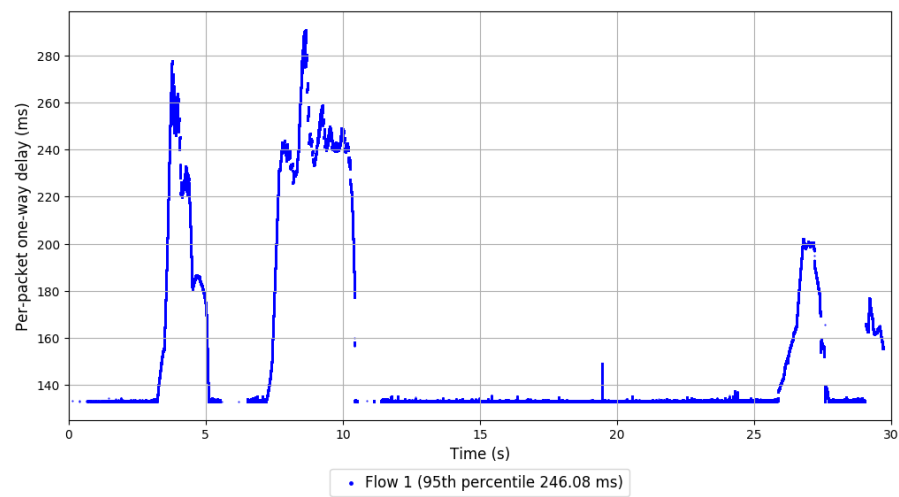
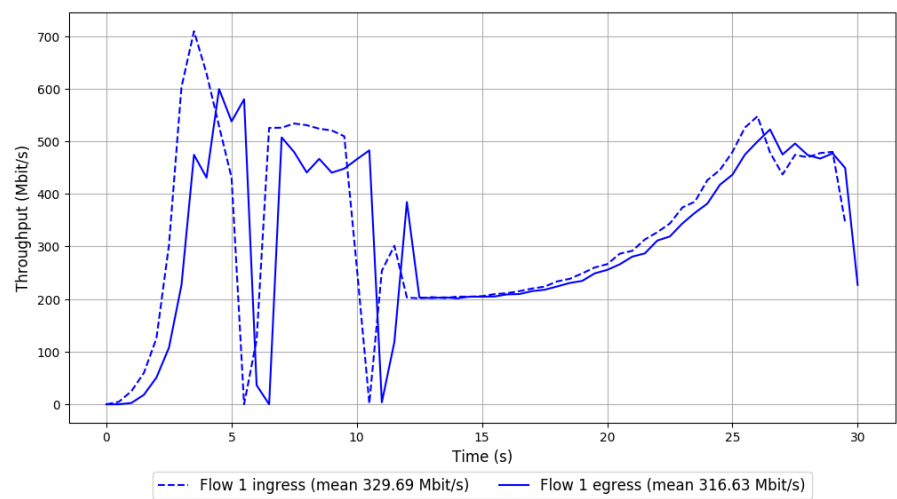
-- Flow 1:

Average throughput: 316.63 Mbit/s

95th percentile per-packet one-way delay: 246.083 ms

Loss rate: 4.82%

Run 5: Report of PCC-Allegro — Data Link

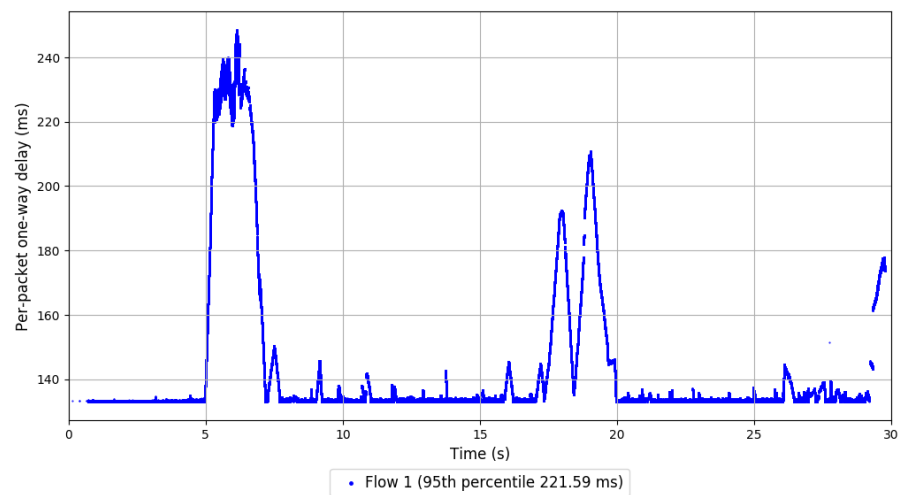
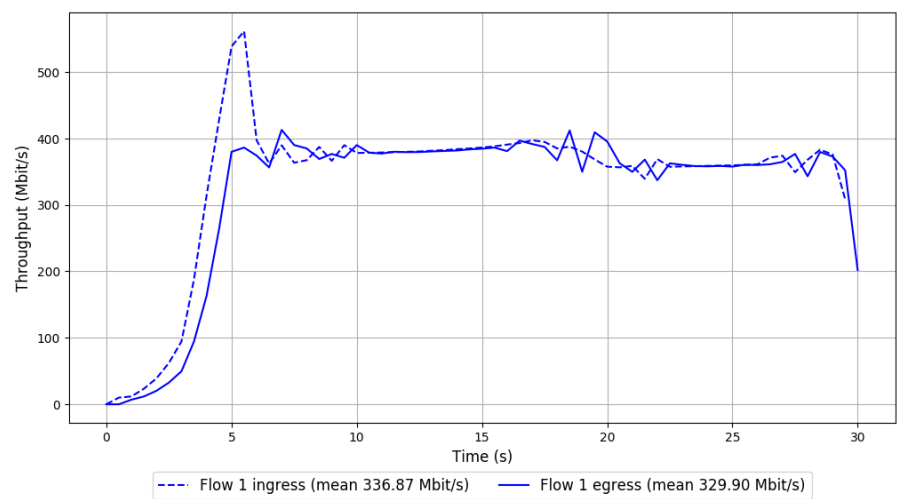


Run 1: Statistics of PCC-Expr

Start at: 2018-11-30 14:01:13  
End at: 2018-11-30 14:01:43  
Local clock offset: -0.252 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-11-30 17:52:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 329.90 Mbit/s  
95th percentile per-packet one-way delay: 221.585 ms  
Loss rate: 2.95%  
-- Flow 1:  
Average throughput: 329.90 Mbit/s  
95th percentile per-packet one-way delay: 221.585 ms  
Loss rate: 2.95%

Run 1: Report of PCC-Expr — Data Link

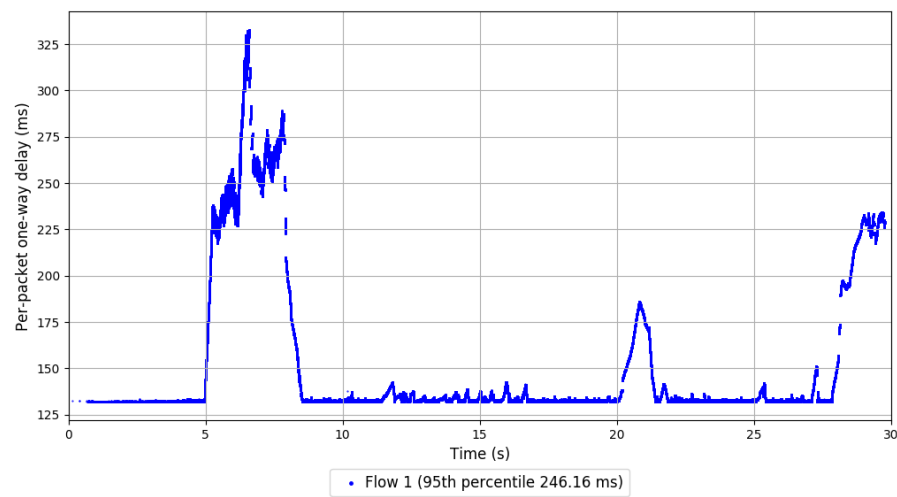
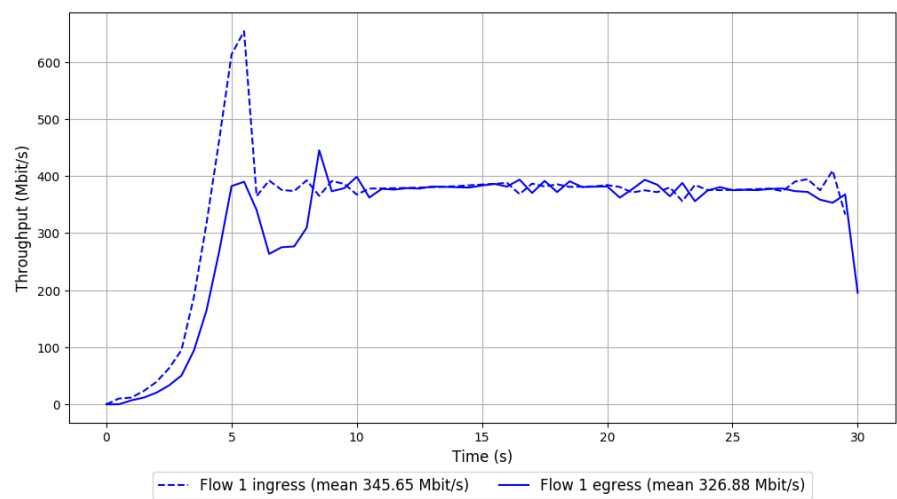


Run 2: Statistics of PCC-Expr

Start at: 2018-11-30 14:31:03  
End at: 2018-11-30 14:31:33  
Local clock offset: -0.513 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-11-30 17:52:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 326.88 Mbit/s  
95th percentile per-packet one-way delay: 246.155 ms  
Loss rate: 6.27%  
-- Flow 1:  
Average throughput: 326.88 Mbit/s  
95th percentile per-packet one-way delay: 246.155 ms  
Loss rate: 6.27%

Run 2: Report of PCC-Expr — Data Link

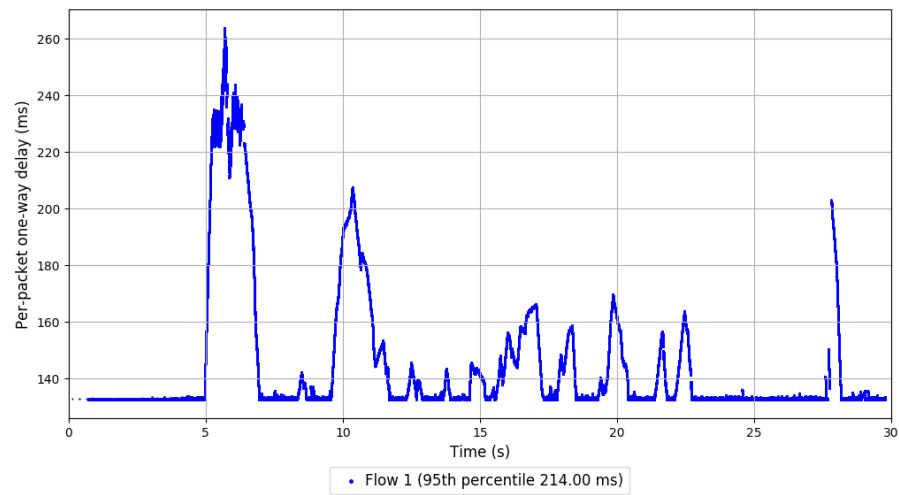
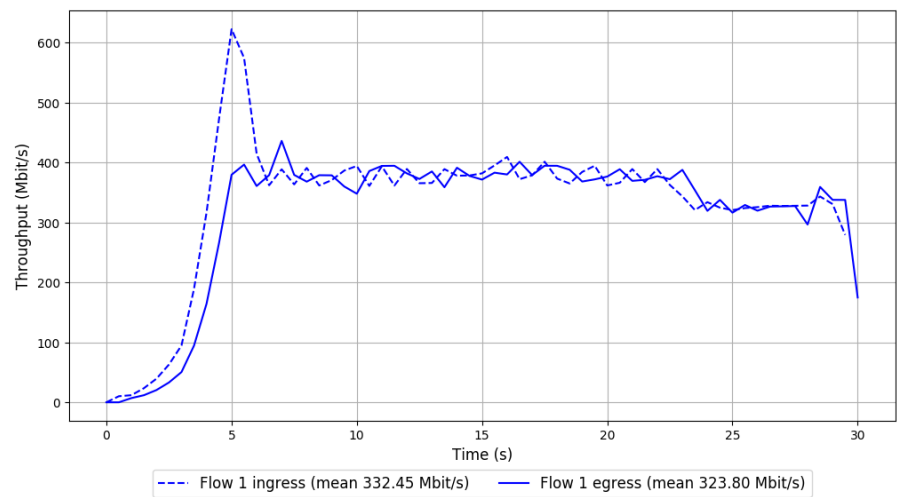


Run 3: Statistics of PCC-Expr

Start at: 2018-11-30 15:01:55  
End at: 2018-11-30 15:02:25  
Local clock offset: -0.154 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-11-30 17:54:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 323.80 Mbit/s  
95th percentile per-packet one-way delay: 214.005 ms  
Loss rate: 3.47%  
-- Flow 1:  
Average throughput: 323.80 Mbit/s  
95th percentile per-packet one-way delay: 214.005 ms  
Loss rate: 3.47%

Run 3: Report of PCC-Expr — Data Link

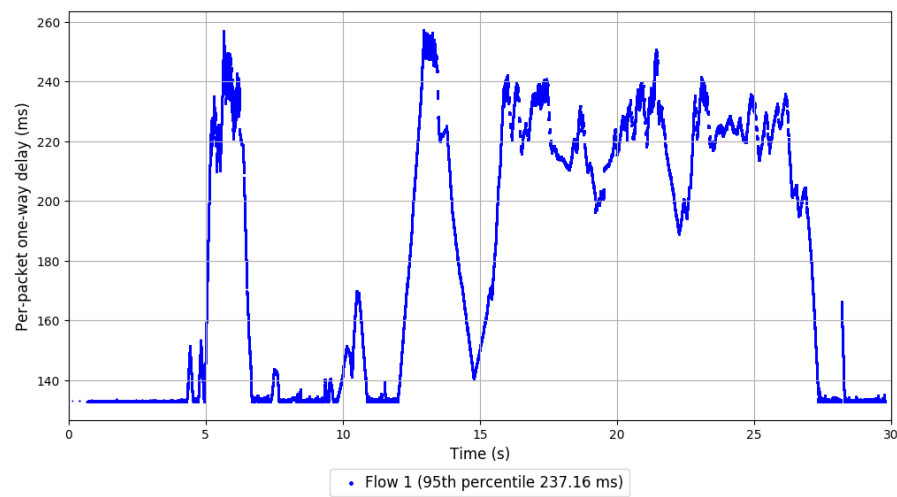
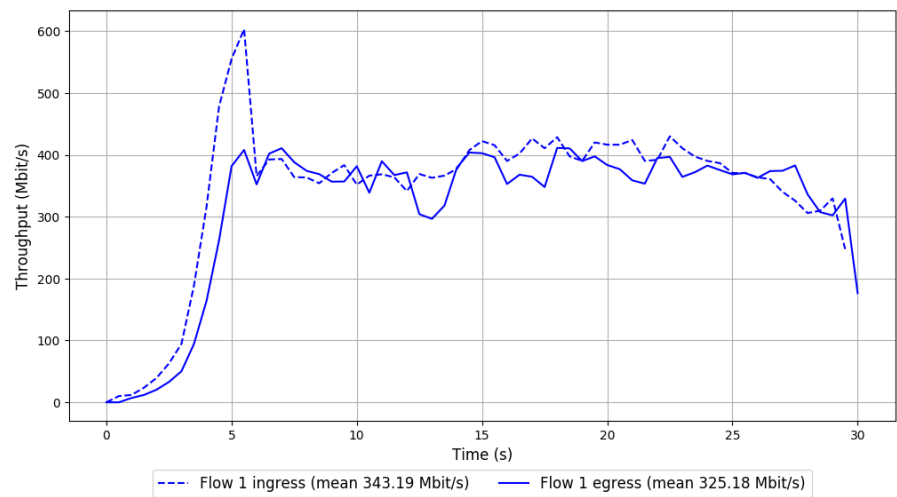


Run 4: Statistics of PCC-Expr

Start at: 2018-11-30 15:32:51  
End at: 2018-11-30 15:33:21  
Local clock offset: -0.092 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-11-30 17:57:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 325.18 Mbit/s  
95th percentile per-packet one-way delay: 237.158 ms  
Loss rate: 6.09%  
-- Flow 1:  
Average throughput: 325.18 Mbit/s  
95th percentile per-packet one-way delay: 237.158 ms  
Loss rate: 6.09%

Run 4: Report of PCC-Expr — Data Link

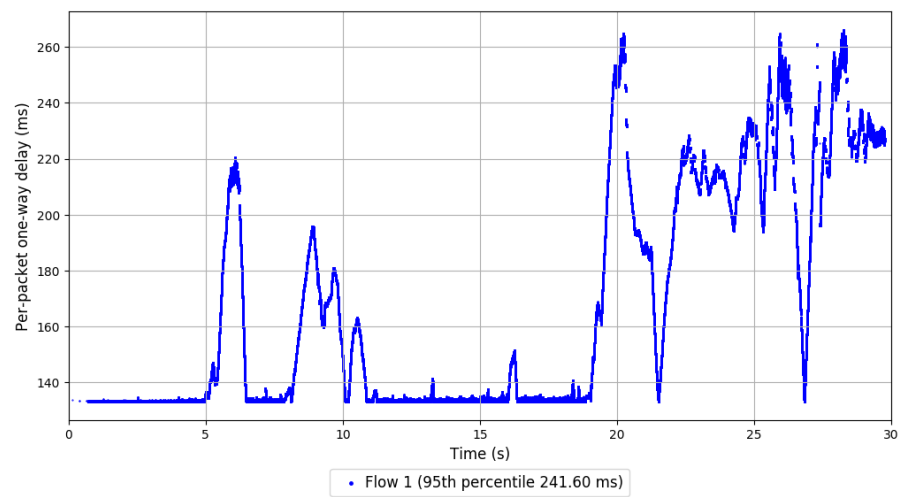
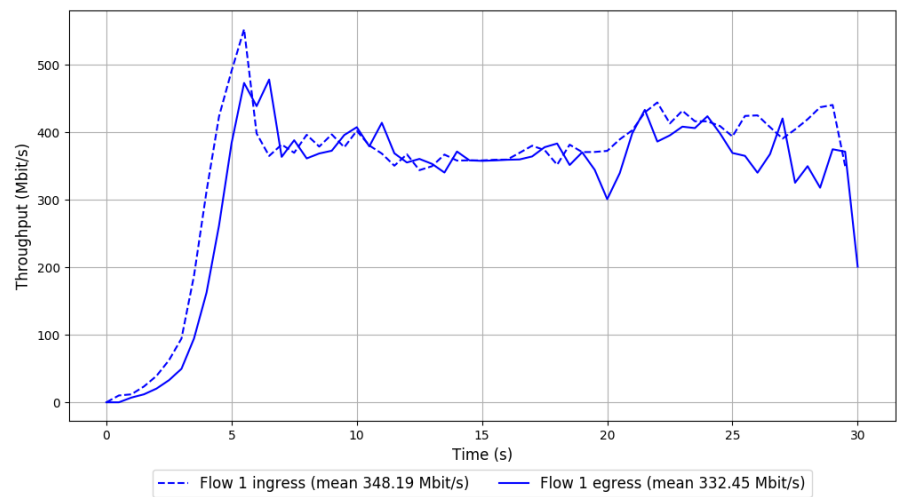


Run 5: Statistics of PCC-Expr

Start at: 2018-11-30 16:03:55  
End at: 2018-11-30 16:04:25  
Local clock offset: 0.342 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-11-30 17:59:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 332.45 Mbit/s  
95th percentile per-packet one-way delay: 241.603 ms  
Loss rate: 5.37%  
-- Flow 1:  
Average throughput: 332.45 Mbit/s  
95th percentile per-packet one-way delay: 241.603 ms  
Loss rate: 5.37%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-11-30 14:05:02

End at: 2018-11-30 14:05:32

Local clock offset: -0.199 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-11-30 17:59:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.87 Mbit/s

95th percentile per-packet one-way delay: 133.253 ms

Loss rate: 1.42%

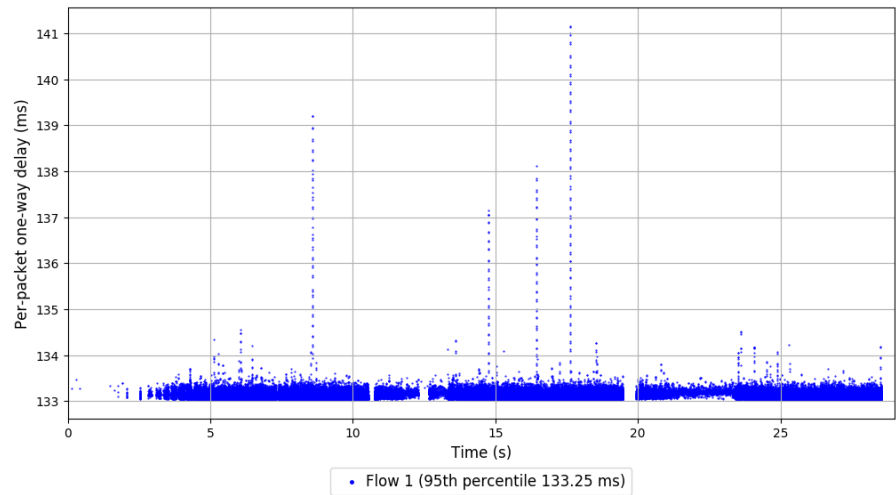
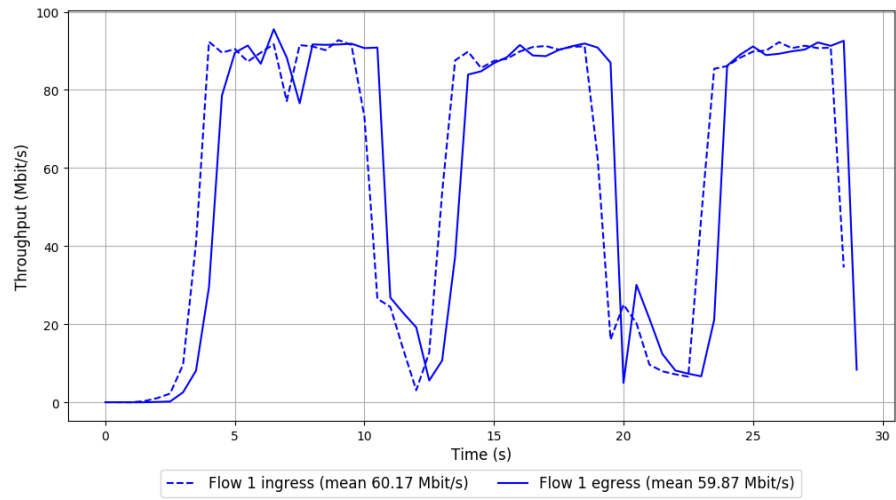
-- Flow 1:

Average throughput: 59.87 Mbit/s

95th percentile per-packet one-way delay: 133.253 ms

Loss rate: 1.42%

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



Run 2: Statistics of QUIC Cubic

Start at: 2018-11-30 14:34:29

End at: 2018-11-30 14:34:59

Local clock offset: -0.524 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-11-30 17:59:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.05 Mbit/s

95th percentile per-packet one-way delay: 133.129 ms

Loss rate: 1.35%

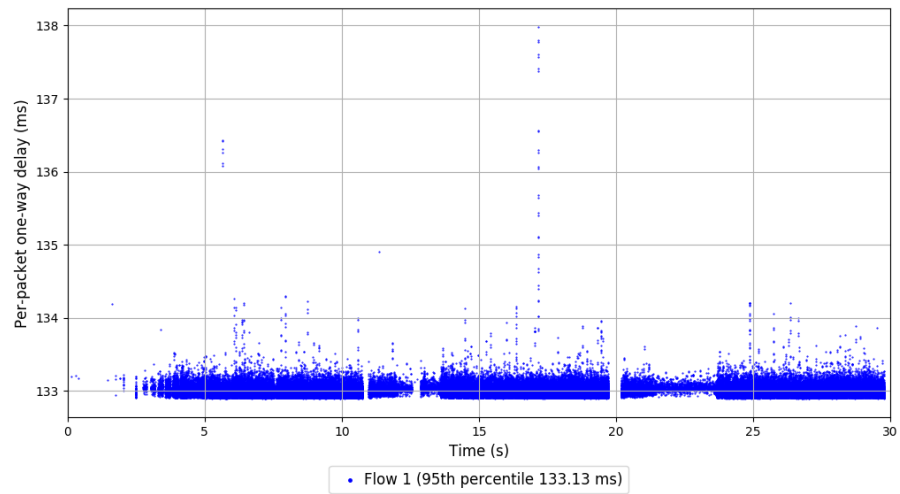
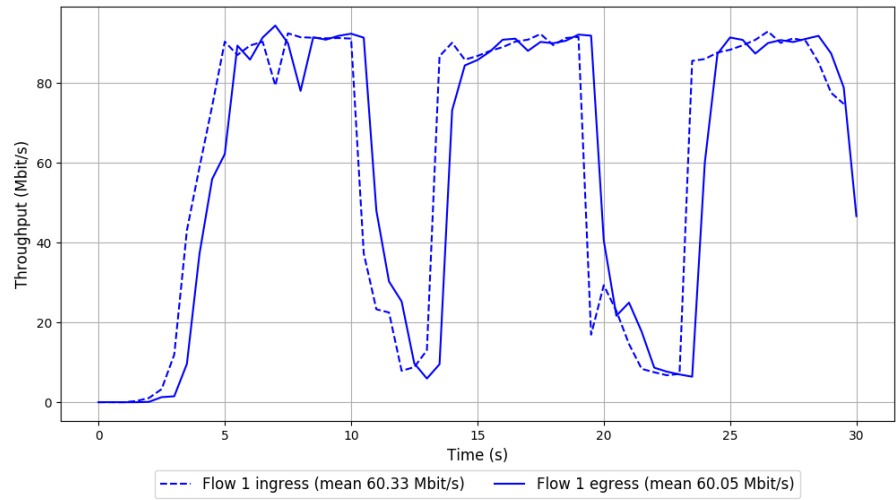
-- Flow 1:

Average throughput: 60.05 Mbit/s

95th percentile per-packet one-way delay: 133.129 ms

Loss rate: 1.35%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-11-30 15:05:29

End at: 2018-11-30 15:05:59

Local clock offset: 0.182 ms

Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-11-30 17:59:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.35 Mbit/s

95th percentile per-packet one-way delay: 132.717 ms

Loss rate: 1.49%

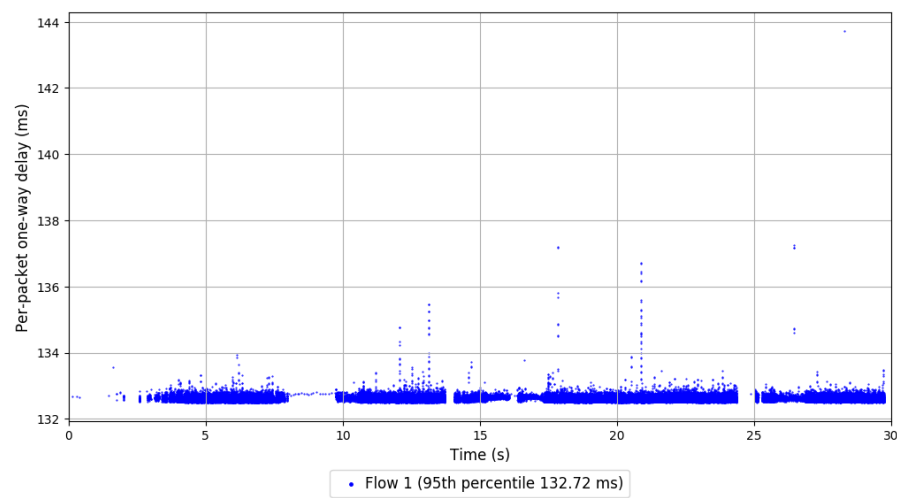
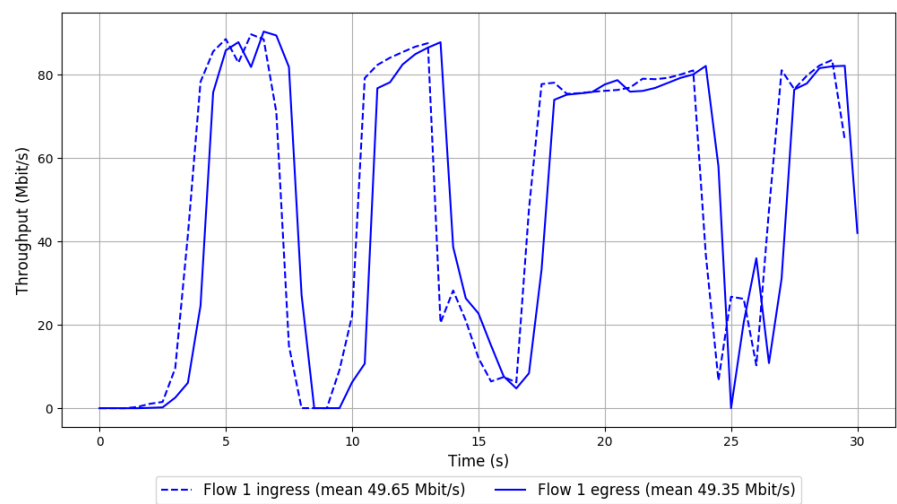
-- Flow 1:

Average throughput: 49.35 Mbit/s

95th percentile per-packet one-way delay: 132.717 ms

Loss rate: 1.49%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-11-30 15:36:52

End at: 2018-11-30 15:37:22

Local clock offset: -0.07 ms

Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-11-30 17:59:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 51.53 Mbit/s

95th percentile per-packet one-way delay: 132.639 ms

Loss rate: 1.34%

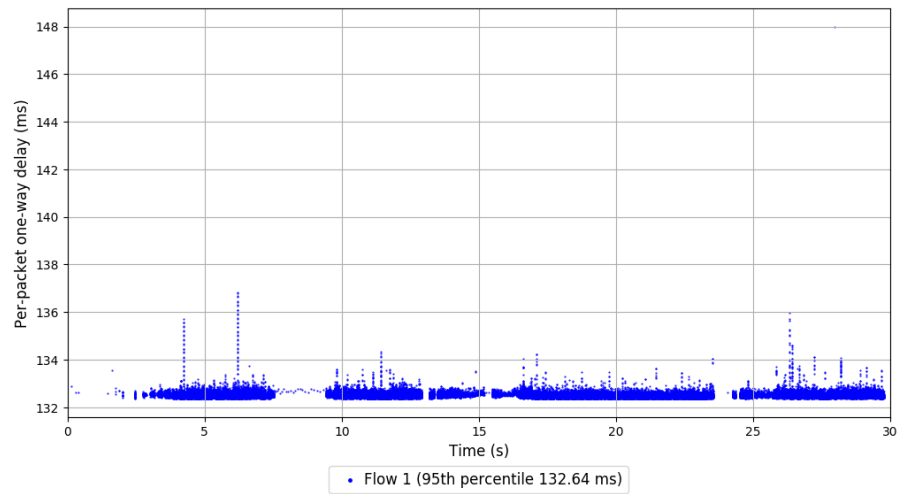
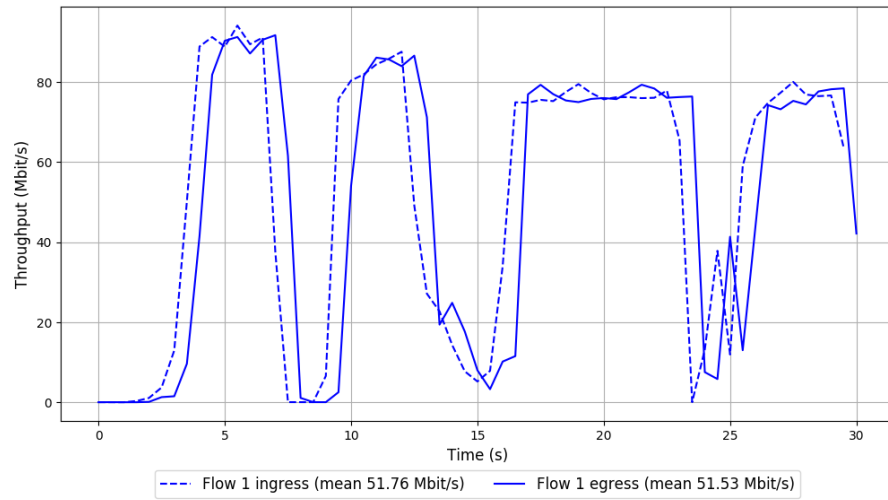
-- Flow 1:

Average throughput: 51.53 Mbit/s

95th percentile per-packet one-way delay: 132.639 ms

Loss rate: 1.34%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-11-30 16:07:49

End at: 2018-11-30 16:08:19

Local clock offset: 0.185 ms

Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-11-30 17:59:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.43 Mbit/s

95th percentile per-packet one-way delay: 133.771 ms

Loss rate: 1.39%

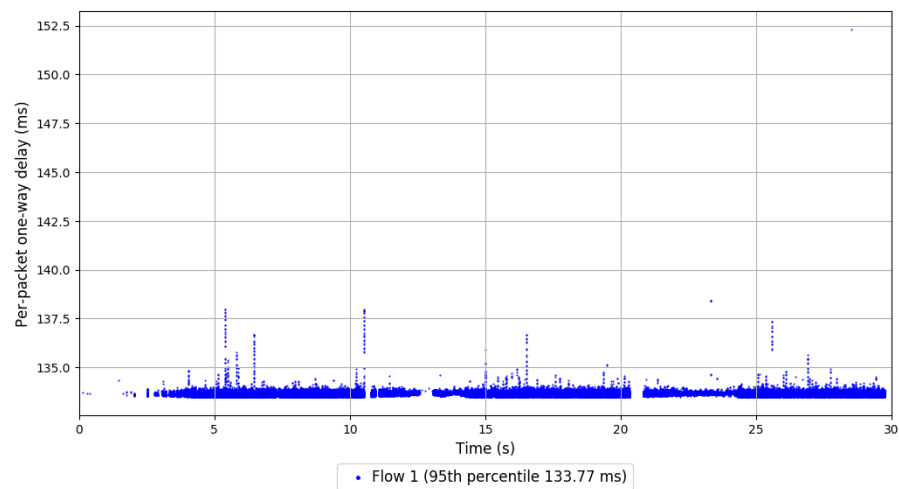
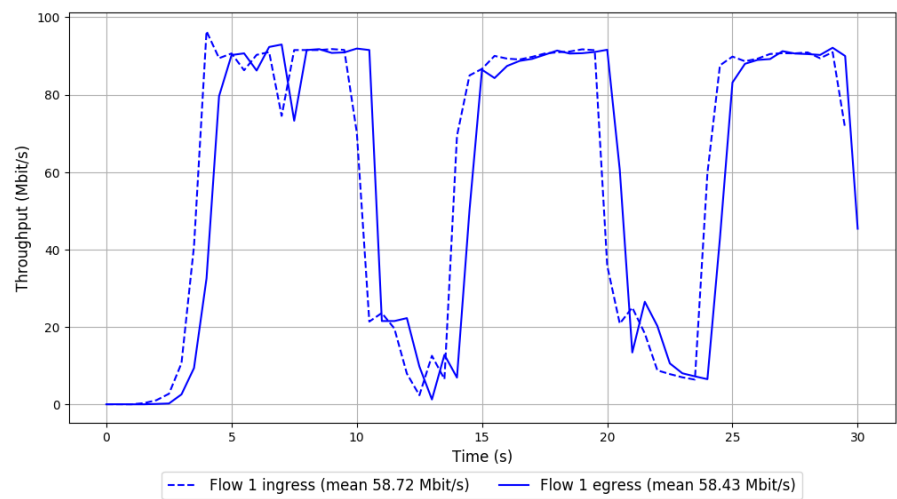
-- Flow 1:

Average throughput: 58.43 Mbit/s

95th percentile per-packet one-way delay: 133.771 ms

Loss rate: 1.39%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-11-30 14:23:47

End at: 2018-11-30 14:24:17

Local clock offset: -0.147 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-11-30 17:59:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.717 ms

Loss rate: 0.88%

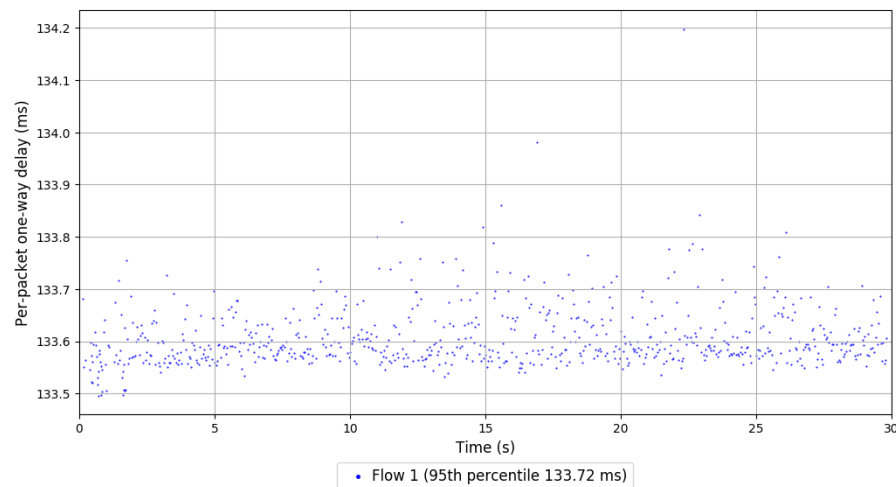
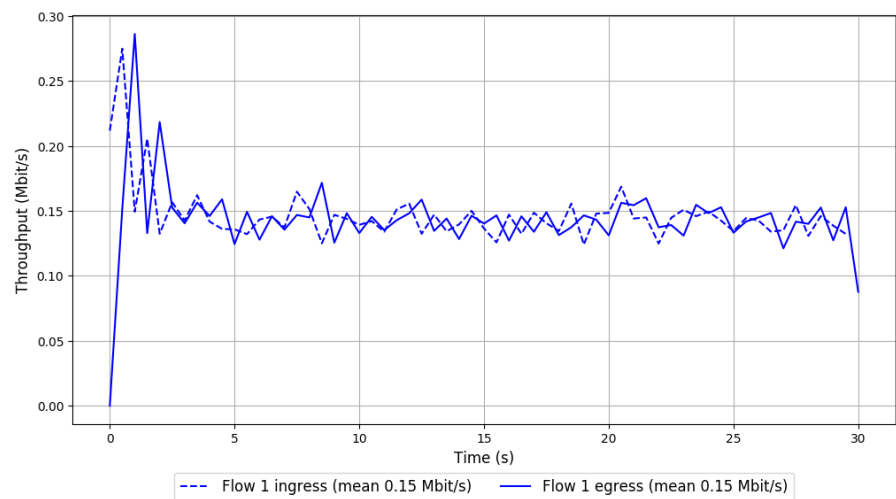
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.717 ms

Loss rate: 0.88%

Run 1: Report of SReAM — Data Link

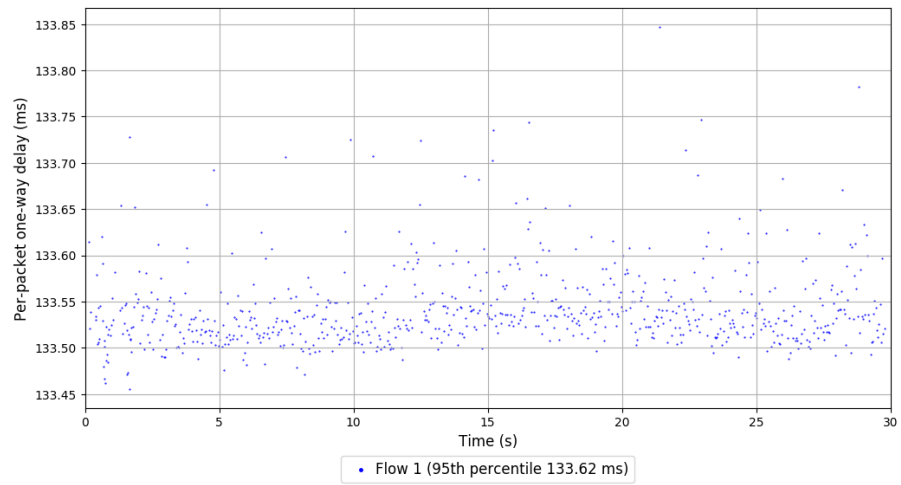
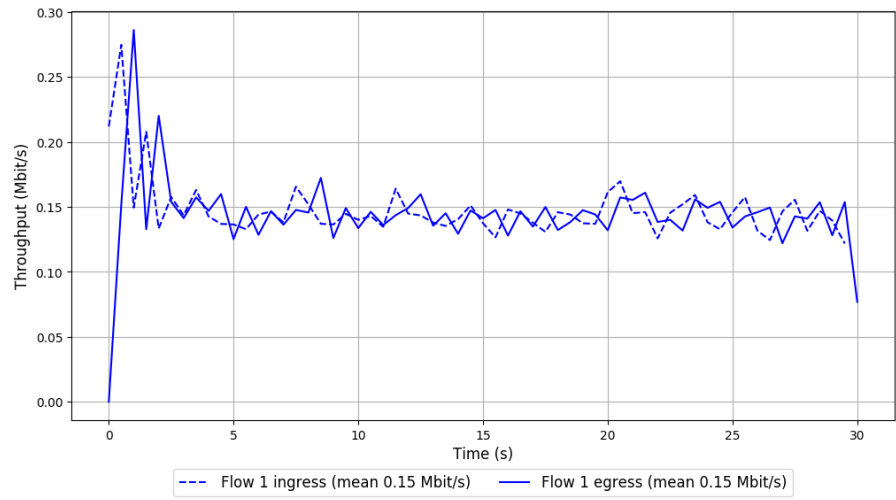


Run 2: Statistics of SCReAM

Start at: 2018-11-30 14:54:26  
End at: 2018-11-30 14:54:56  
Local clock offset: -0.016 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-11-30 17:59:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.624 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.624 ms  
Loss rate: 0.88%

## Run 2: Report of SReAM — Data Link

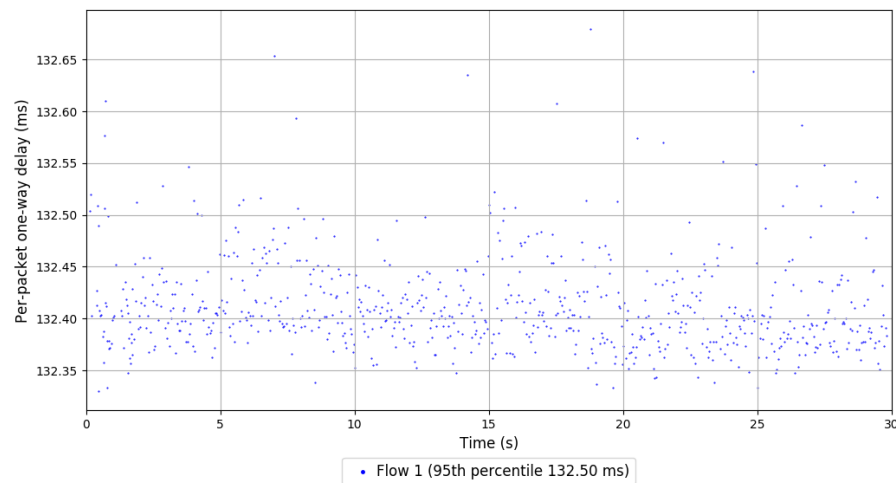
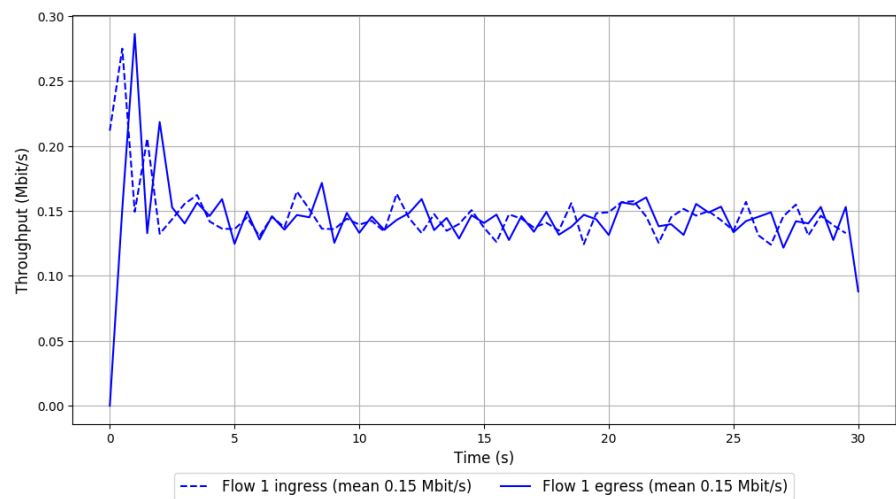


Run 3: Statistics of SCReAM

Start at: 2018-11-30 15:25:04  
End at: 2018-11-30 15:25:34  
Local clock offset: 0.08 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-11-30 17:59:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.503 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.503 ms  
Loss rate: 0.88%

Run 3: Report of SReAM — Data Link

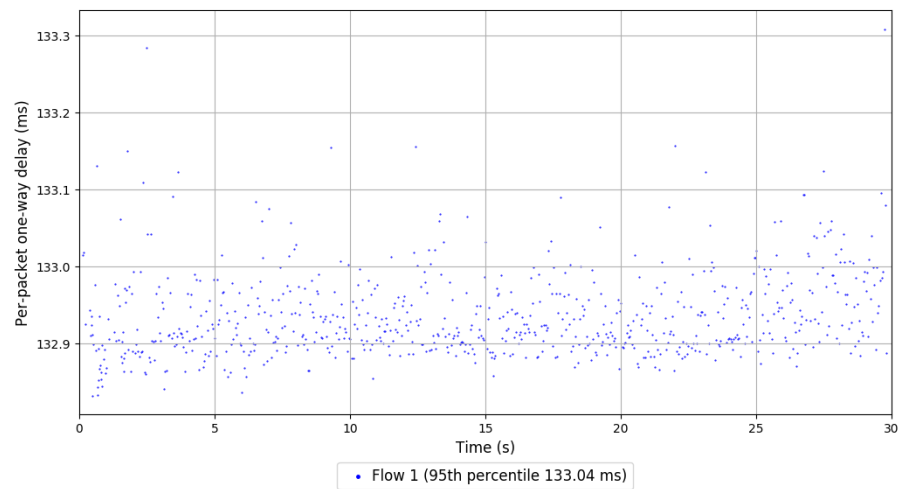
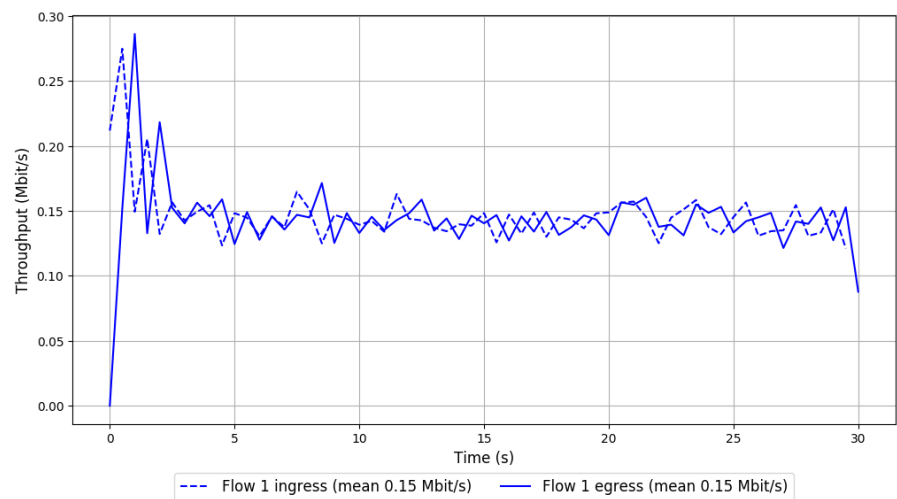


Run 4: Statistics of SCReAM

Start at: 2018-11-30 15:56:33  
End at: 2018-11-30 15:57:03  
Local clock offset: -0.062 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-11-30 17:59:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.040 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.040 ms  
Loss rate: 0.75%

Run 4: Report of SReAM — Data Link

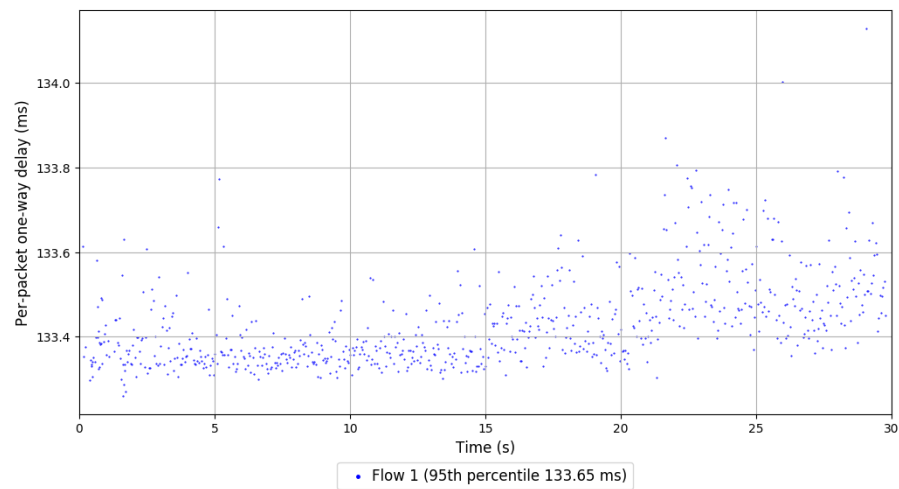
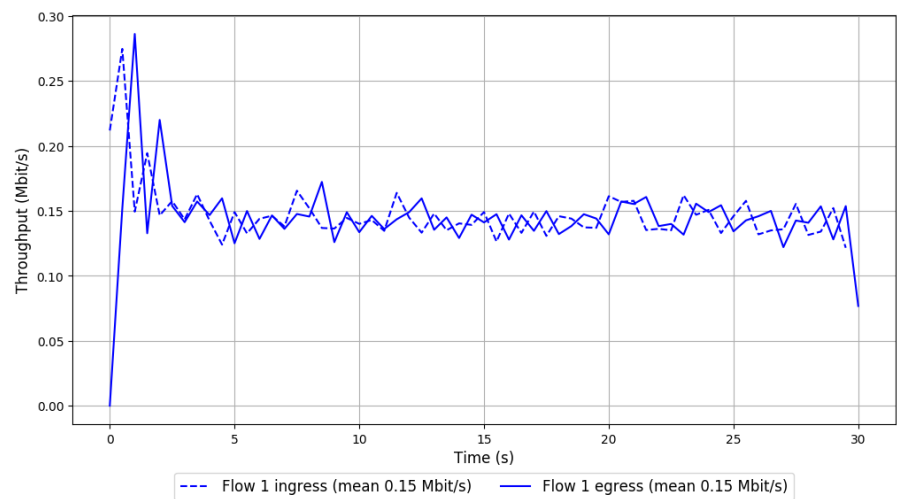


Run 5: Statistics of SCReAM

Start at: 2018-11-30 16:26:43  
End at: 2018-11-30 16:27:13  
Local clock offset: -0.249 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-11-30 17:59:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.646 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.646 ms  
Loss rate: 0.88%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-11-30 14:19:05

End at: 2018-11-30 14:19:35

Local clock offset: 0.067 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-11-30 17:59:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 132.976 ms

Loss rate: 0.93%

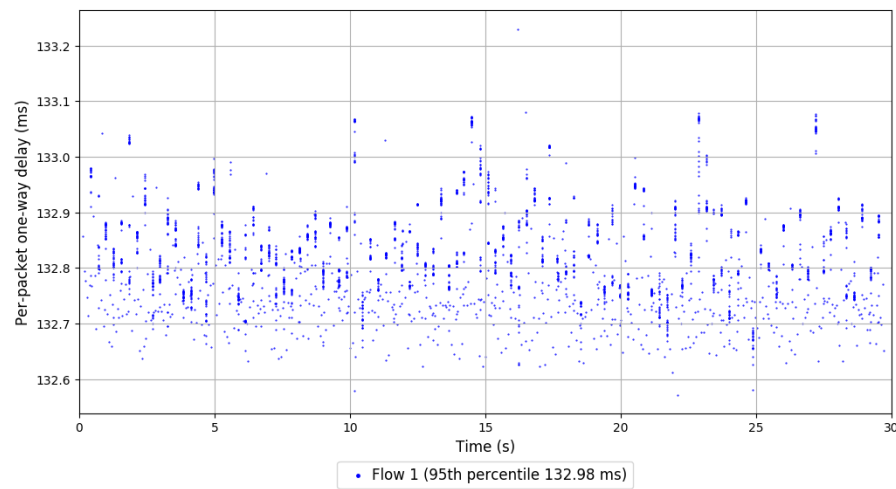
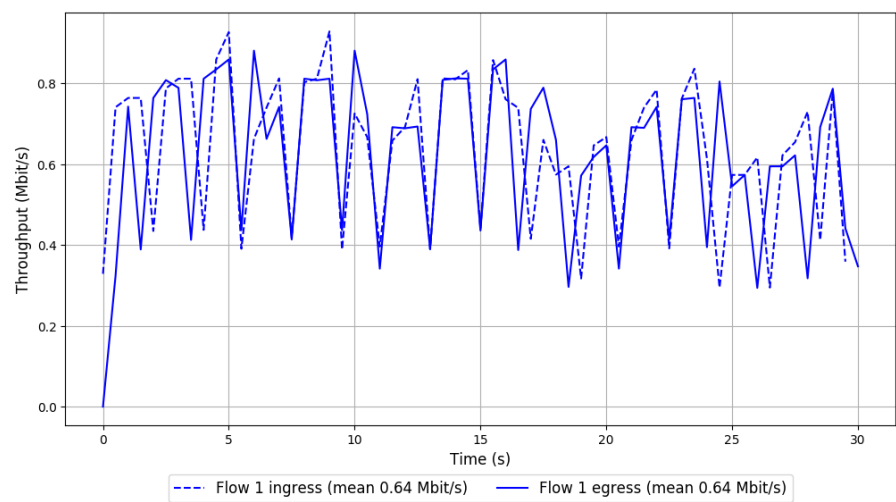
-- Flow 1:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 132.976 ms

Loss rate: 0.93%

Run 1: Report of Sprout — Data Link

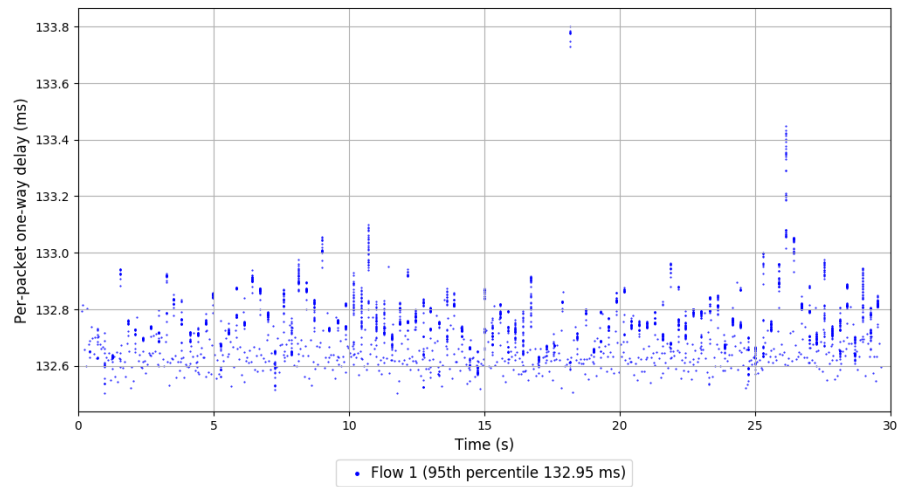
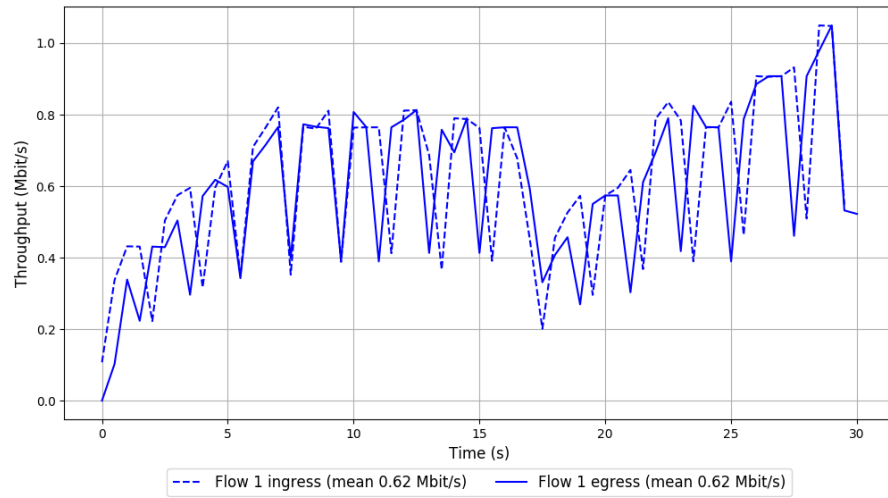


Run 2: Statistics of Sprout

Start at: 2018-11-30 14:49:34  
End at: 2018-11-30 14:50:04  
Local clock offset: -0.284 ms  
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-11-30 17:59:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 132.946 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 132.946 ms  
Loss rate: 1.47%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-11-30 15:20:03

End at: 2018-11-30 15:20:33

Local clock offset: -0.307 ms

Remote clock offset: 0.294 ms

# Below is generated by plot.py at 2018-11-30 17:59:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 132.968 ms

Loss rate: 0.92%

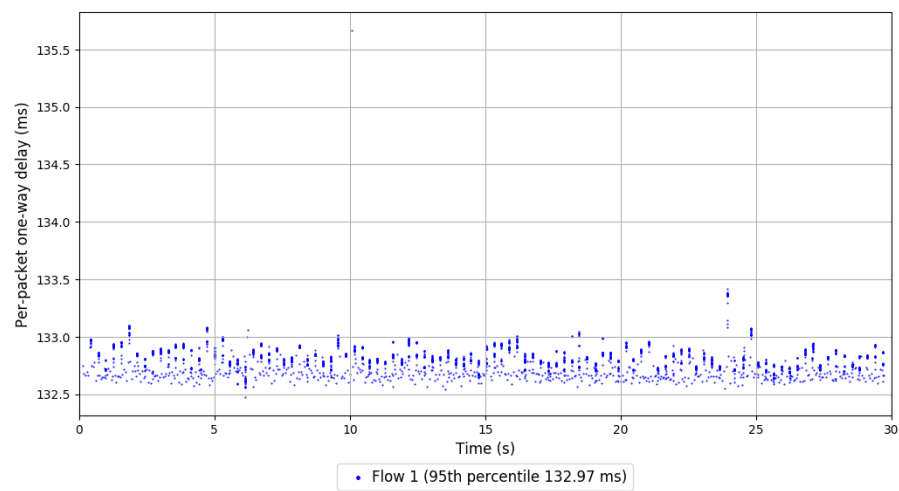
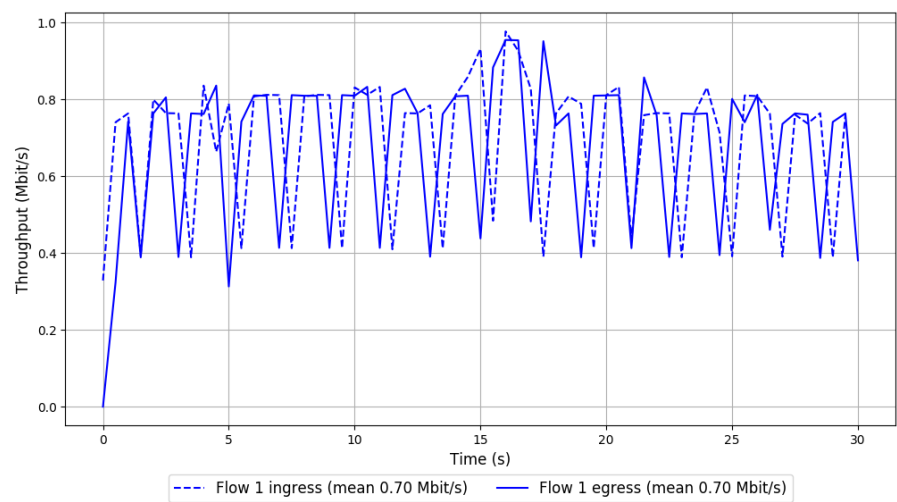
-- Flow 1:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 132.968 ms

Loss rate: 0.92%

Run 3: Report of Sprout — Data Link

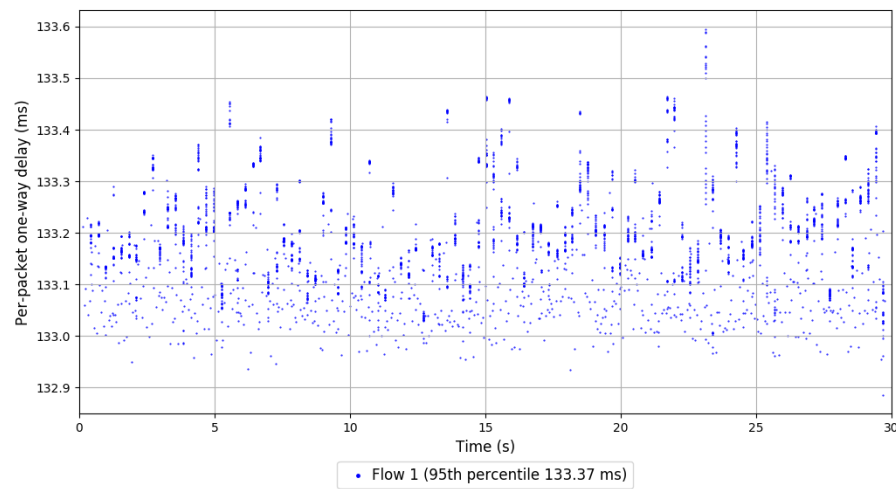
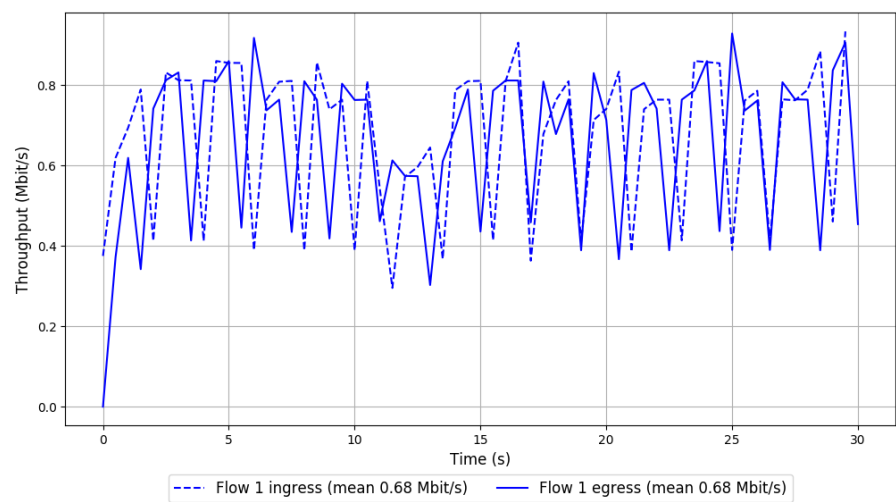


Run 4: Statistics of Sprout

Start at: 2018-11-30 15:52:07  
End at: 2018-11-30 15:52:37  
Local clock offset: -0.489 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-11-30 17:59:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 133.372 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 133.372 ms  
Loss rate: 1.20%

Run 4: Report of Sprout — Data Link

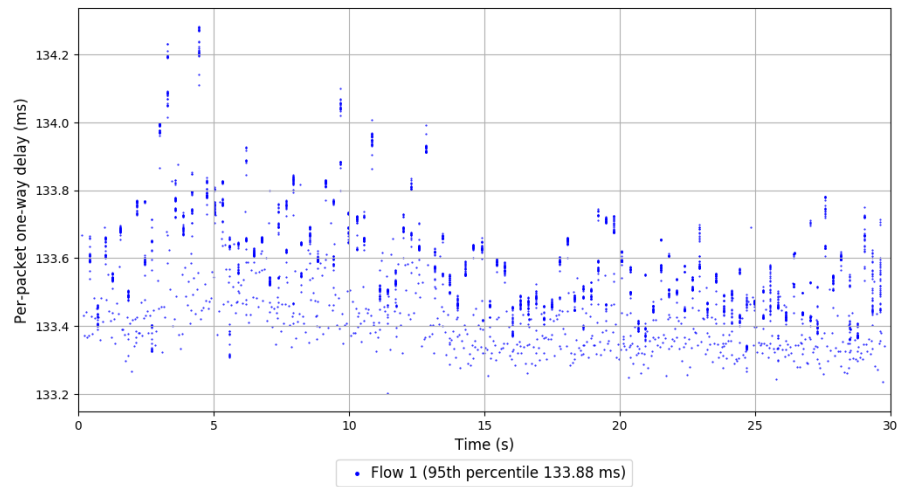
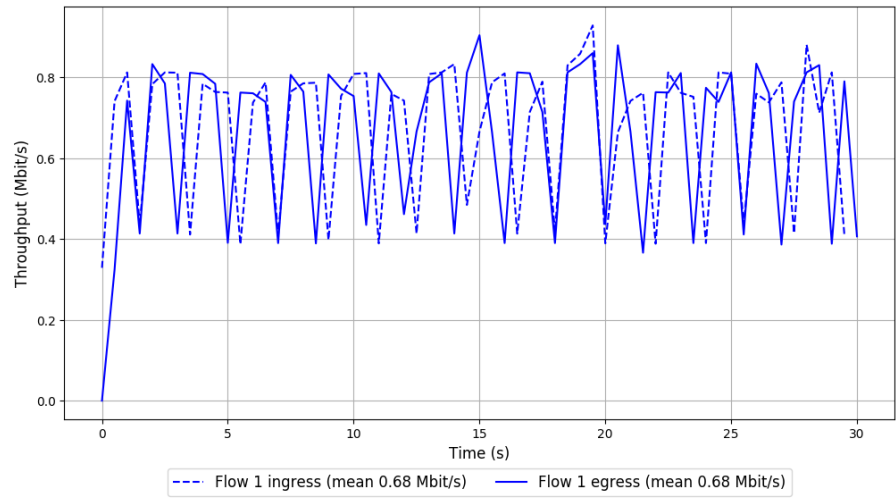


Run 5: Statistics of Sprout

Start at: 2018-11-30 16:21:50  
End at: 2018-11-30 16:22:20  
Local clock offset: -0.33 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-11-30 17:59:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 133.884 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 133.884 ms  
Loss rate: 1.00%

## Run 5: Report of Sprout — Data Link

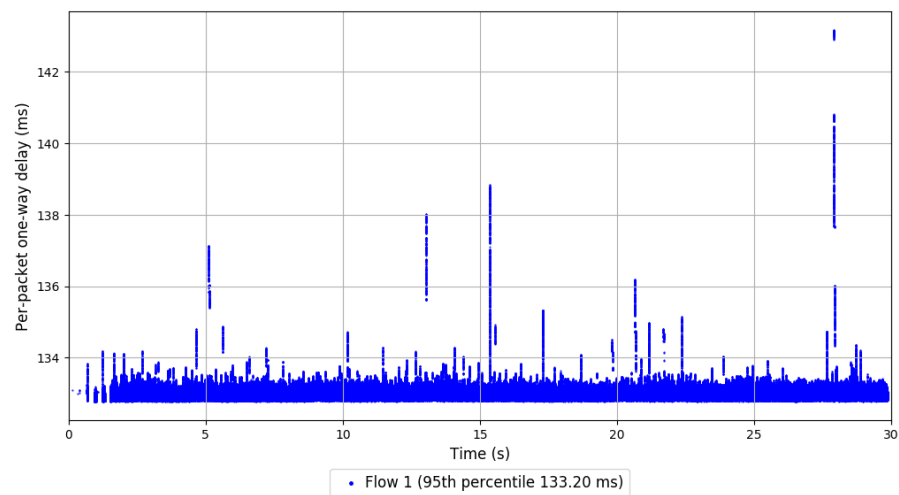
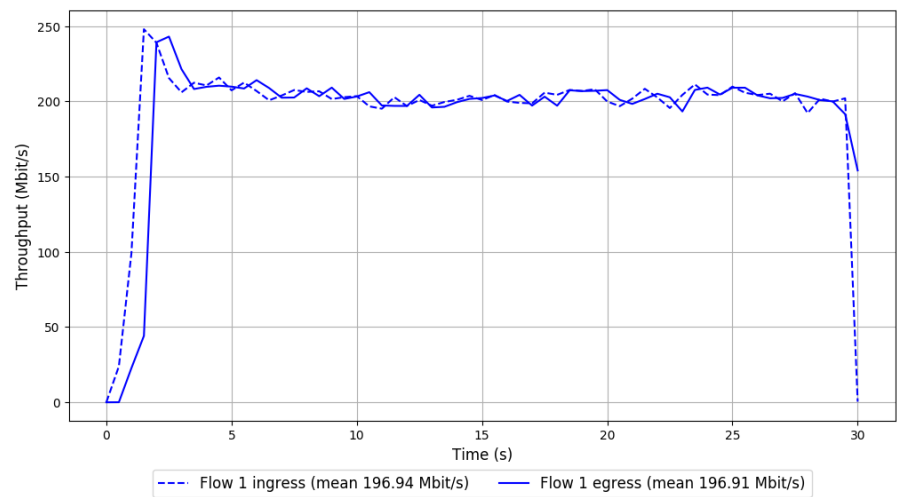


Run 1: Statistics of TaoVA-100x

Start at: 2018-11-30 14:12:31  
End at: 2018-11-30 14:13:01  
Local clock offset: -0.587 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-11-30 17:59:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 196.91 Mbit/s  
95th percentile per-packet one-way delay: 133.196 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 196.91 Mbit/s  
95th percentile per-packet one-way delay: 133.196 ms  
Loss rate: 0.91%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-11-30 14:42:20

End at: 2018-11-30 14:42:50

Local clock offset: -0.01 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-11-30 17:59:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 193.41 Mbit/s

95th percentile per-packet one-way delay: 133.129 ms

Loss rate: 0.93%

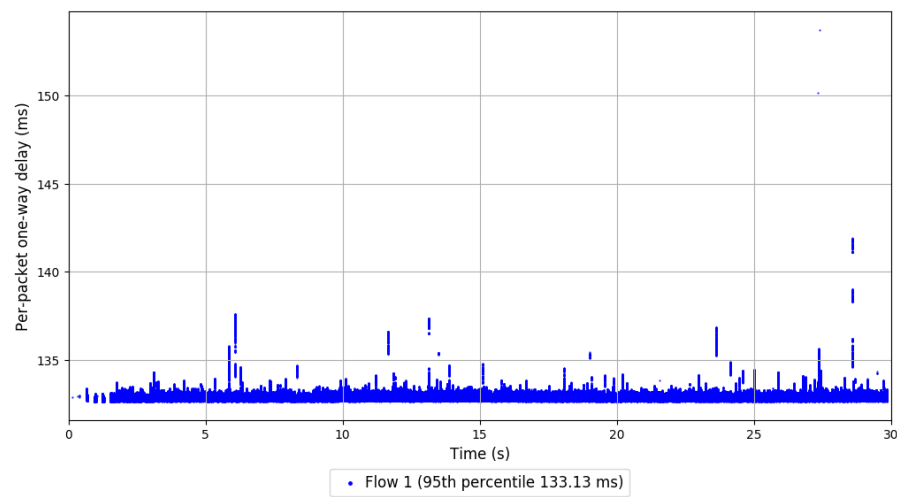
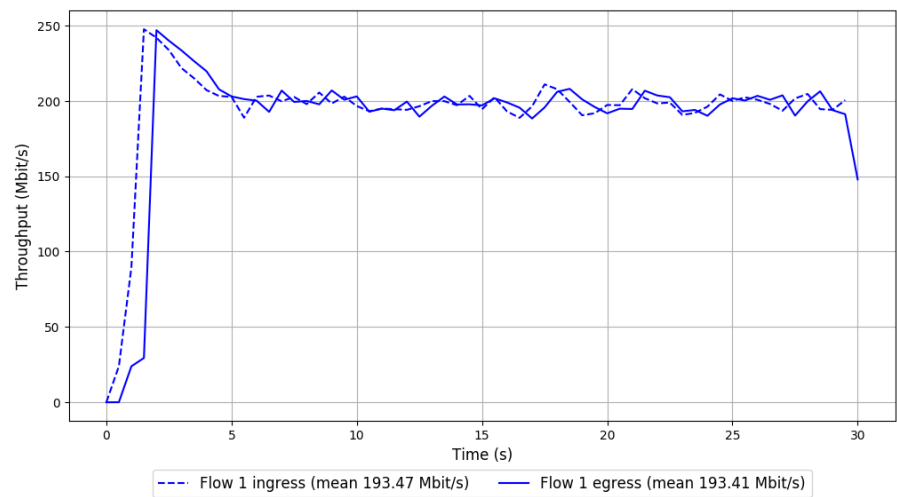
-- Flow 1:

Average throughput: 193.41 Mbit/s

95th percentile per-packet one-way delay: 133.129 ms

Loss rate: 0.93%

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

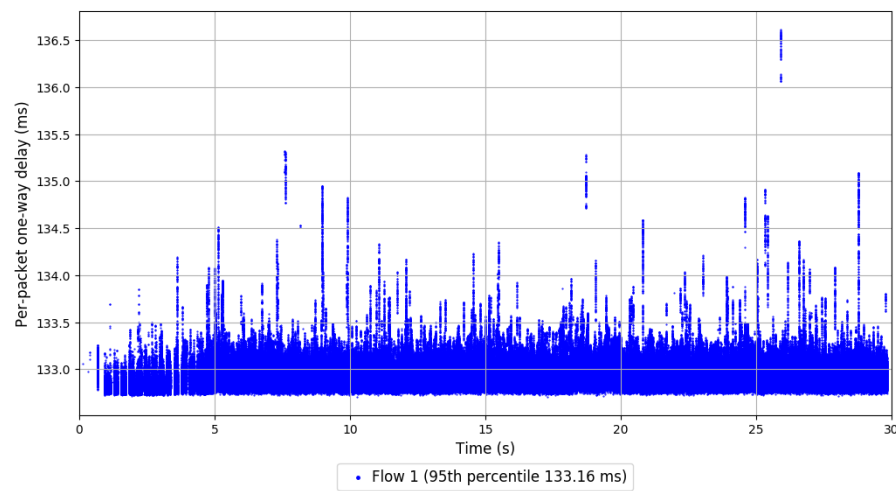
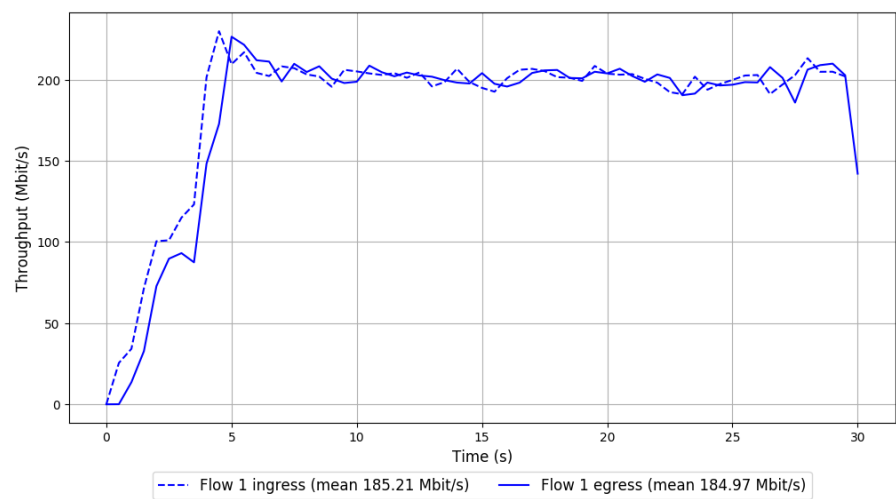


Run 3: Statistics of TaoVA-100x

Start at: 2018-11-30 15:12:27  
End at: 2018-11-30 15:12:57  
Local clock offset: 0.361 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-11-30 17:59:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 184.97 Mbit/s  
95th percentile per-packet one-way delay: 133.164 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 184.97 Mbit/s  
95th percentile per-packet one-way delay: 133.164 ms  
Loss rate: 1.02%

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

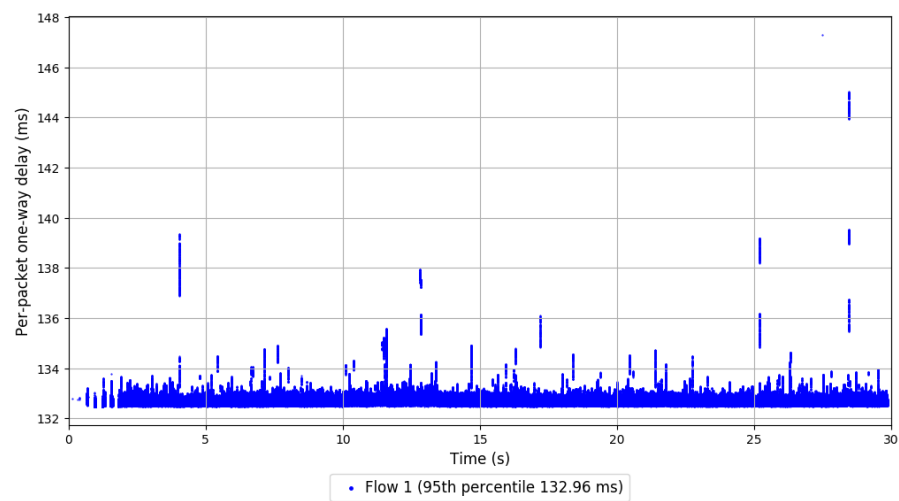
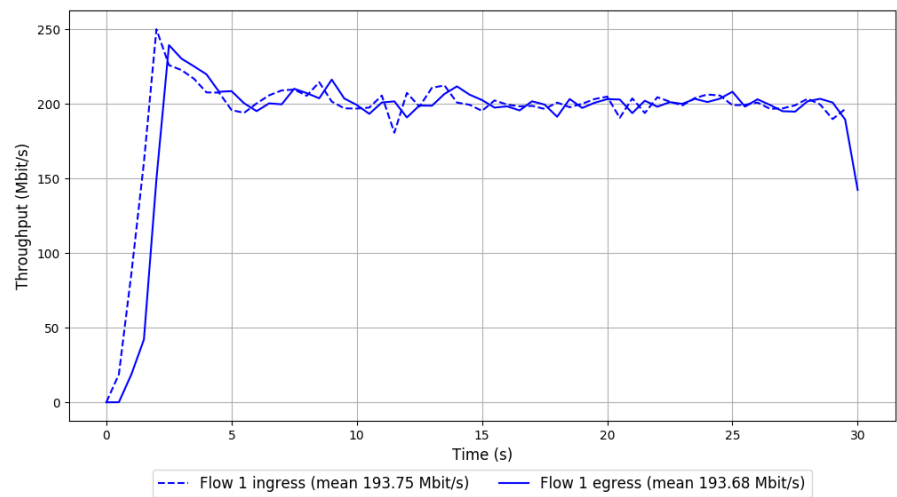


Run 4: Statistics of TaoVA-100x

Start at: 2018-11-30 15:44:32  
End at: 2018-11-30 15:45:02  
Local clock offset: -0.328 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-11-30 18:00:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 193.68 Mbit/s  
95th percentile per-packet one-way delay: 132.955 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 193.68 Mbit/s  
95th percentile per-packet one-way delay: 132.955 ms  
Loss rate: 0.92%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-11-30 16:15:09

End at: 2018-11-30 16:15:39

Local clock offset: -0.467 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-11-30 18:00:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 133.136 ms

Loss rate: 0.91%

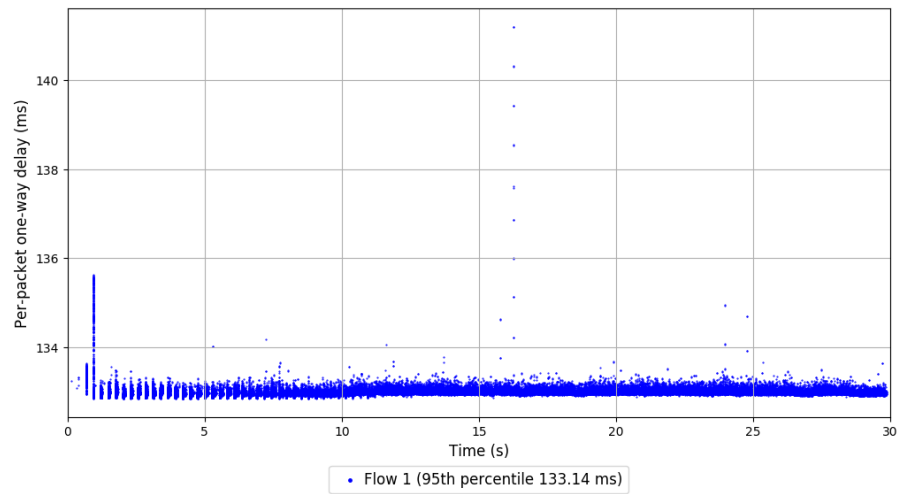
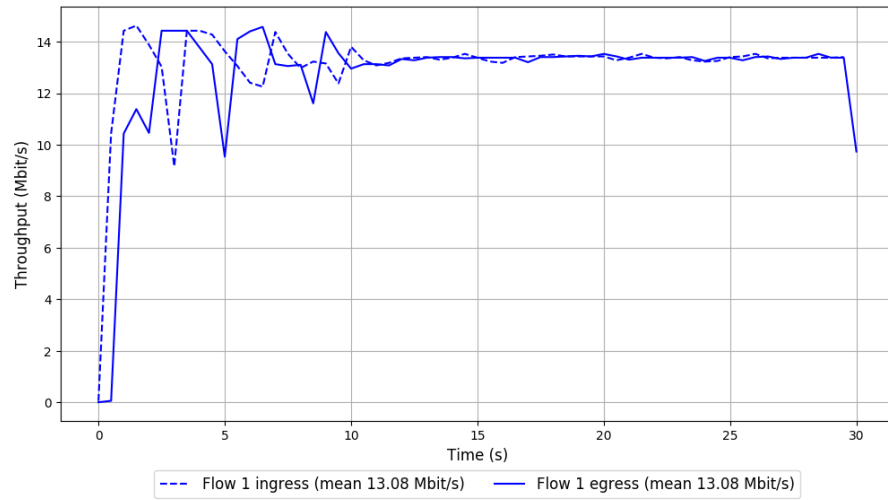
-- Flow 1:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 133.136 ms

Loss rate: 0.91%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-11-30 14:22:05

End at: 2018-11-30 14:22:35

Local clock offset: -0.14 ms

Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-11-30 18:05:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 542.68 Mbit/s

95th percentile per-packet one-way delay: 147.895 ms

Loss rate: 1.02%

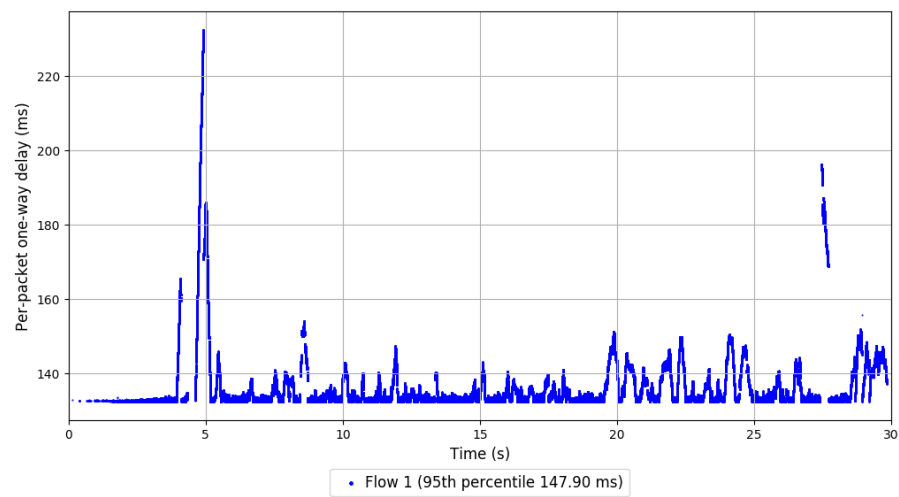
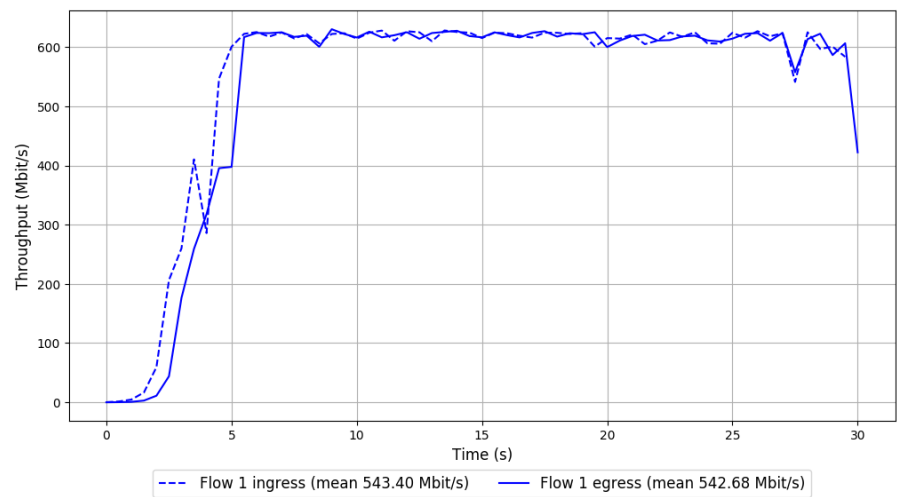
-- Flow 1:

Average throughput: 542.68 Mbit/s

95th percentile per-packet one-way delay: 147.895 ms

Loss rate: 1.02%

Run 1: Report of TCP Vegas — Data Link

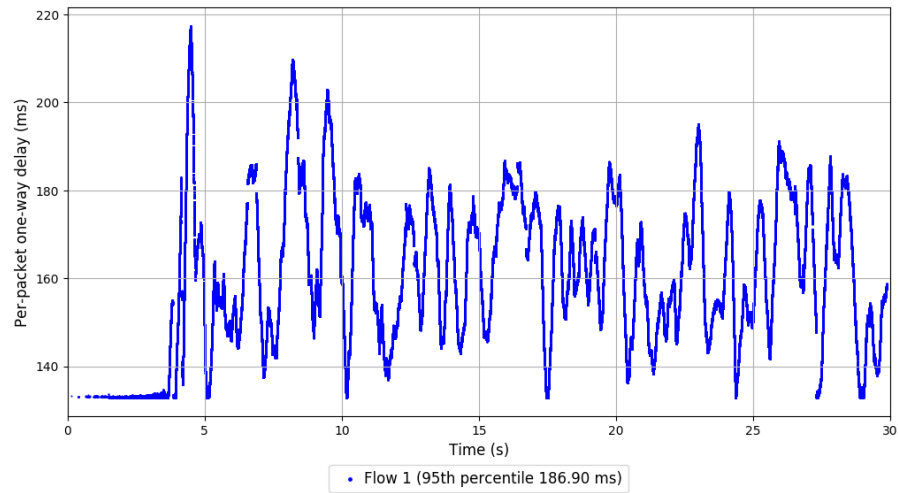
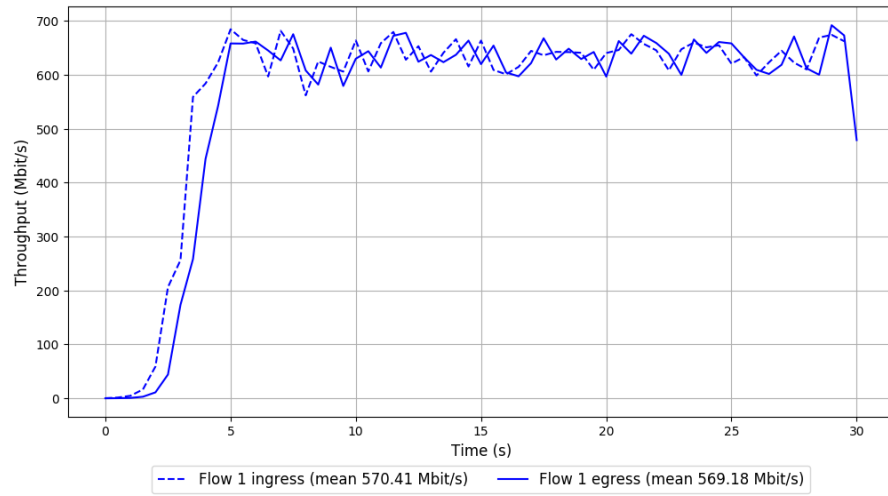


Run 2: Statistics of TCP Vegas

Start at: 2018-11-30 14:52:35  
End at: 2018-11-30 14:53:05  
Local clock offset: 0.017 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-11-30 18:07:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 569.18 Mbit/s  
95th percentile per-packet one-way delay: 186.904 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 569.18 Mbit/s  
95th percentile per-packet one-way delay: 186.904 ms  
Loss rate: 1.10%

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

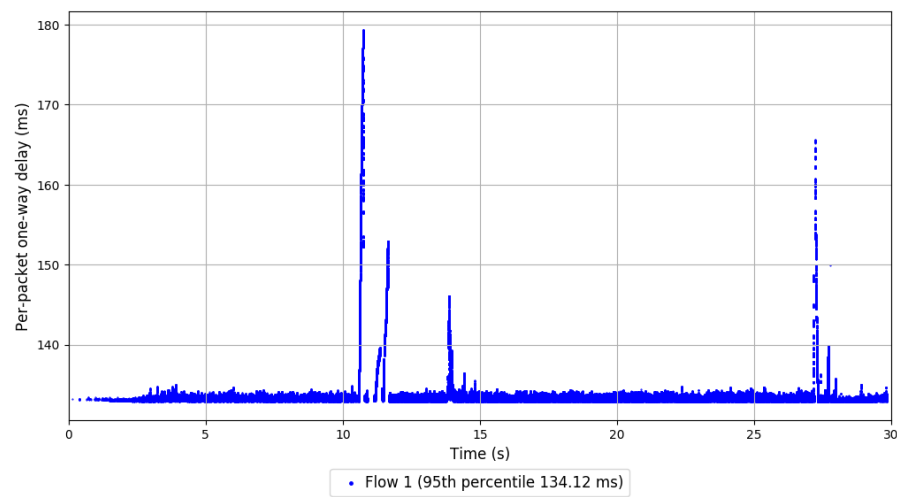
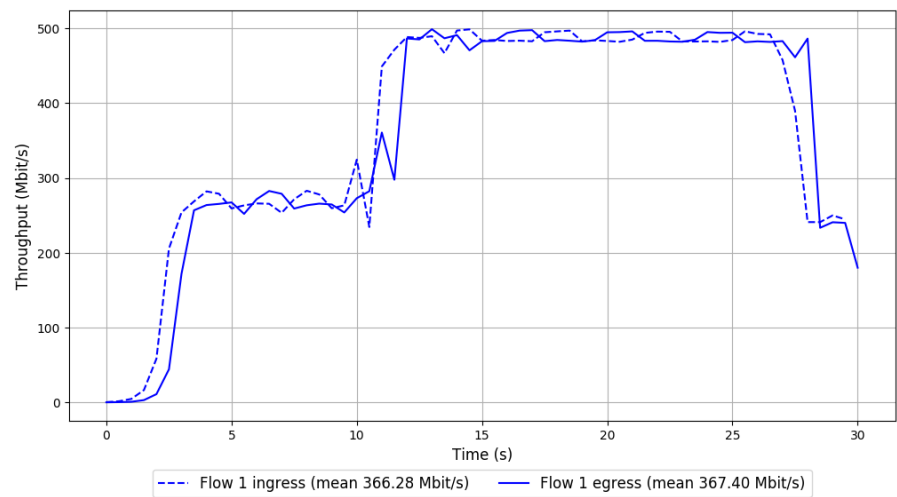


Run 3: Statistics of TCP Vegas

Start at: 2018-11-30 15:23:20  
End at: 2018-11-30 15:23:50  
Local clock offset: 0.12 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-11-30 18:07:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 367.40 Mbit/s  
95th percentile per-packet one-way delay: 134.125 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 367.40 Mbit/s  
95th percentile per-packet one-way delay: 134.125 ms  
Loss rate: 0.59%

Run 3: Report of TCP Vegas — Data Link

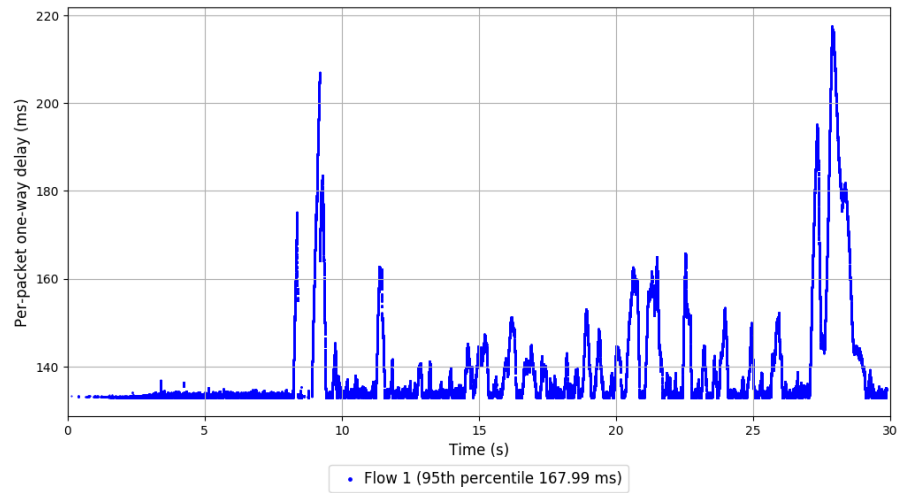
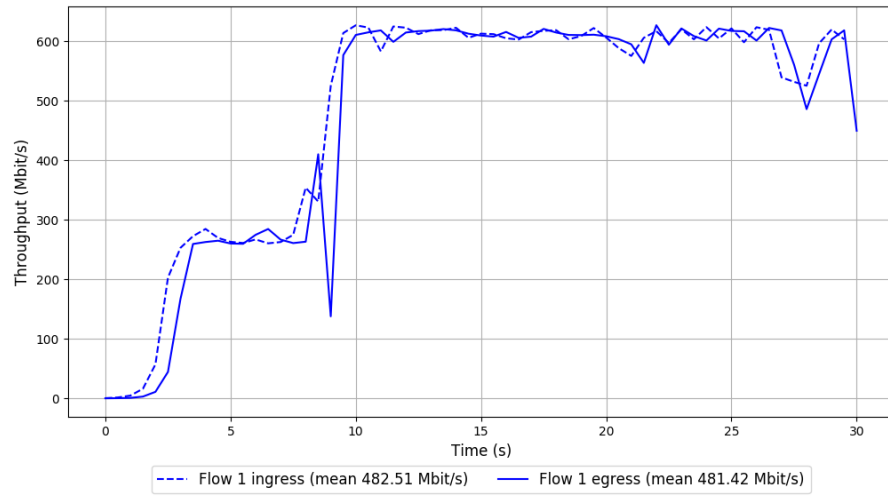


Run 4: Statistics of TCP Vegas

Start at: 2018-11-30 15:54:50  
End at: 2018-11-30 15:55:20  
Local clock offset: -0.49 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-11-30 18:09:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 481.42 Mbit/s  
95th percentile per-packet one-way delay: 167.986 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 481.42 Mbit/s  
95th percentile per-packet one-way delay: 167.986 ms  
Loss rate: 1.12%

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

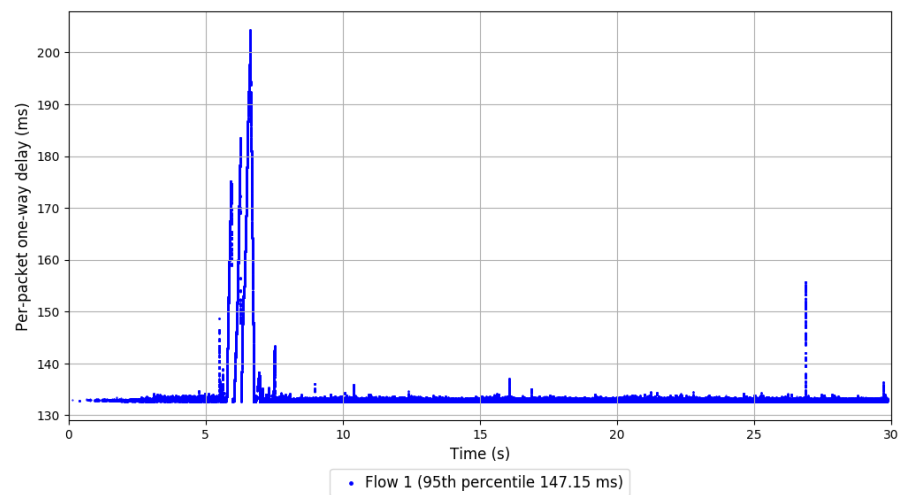
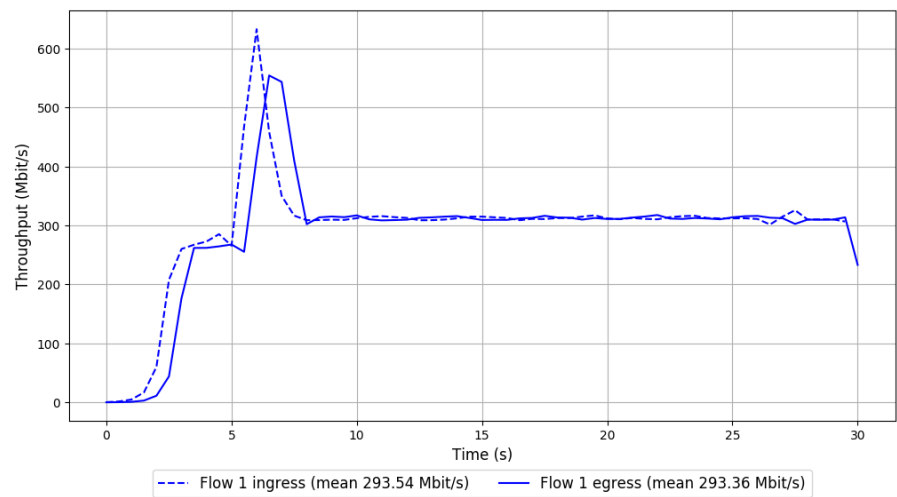


Run 5: Statistics of TCP Vegas

Start at: 2018-11-30 16:25:10  
End at: 2018-11-30 16:25:40  
Local clock offset: -0.108 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-11-30 18:09:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 293.36 Mbit/s  
95th percentile per-packet one-way delay: 147.150 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 293.36 Mbit/s  
95th percentile per-packet one-way delay: 147.150 ms  
Loss rate: 0.95%

Run 5: Report of TCP Vegas — Data Link

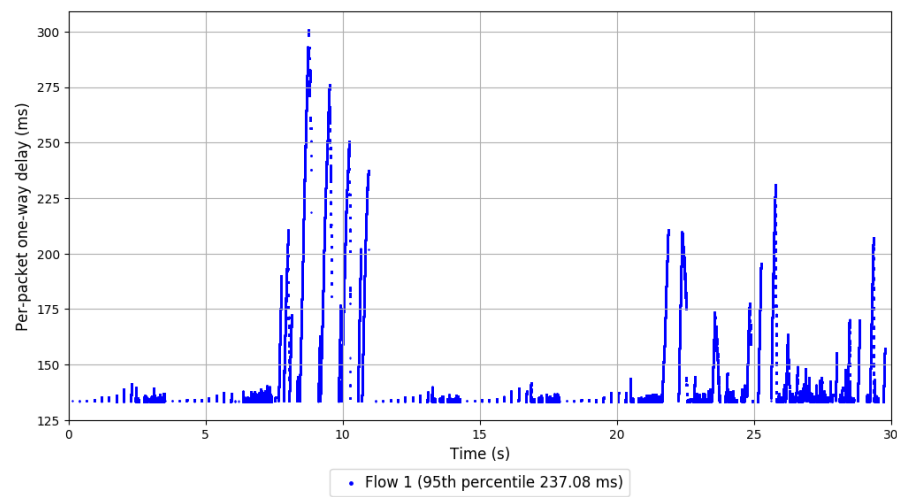
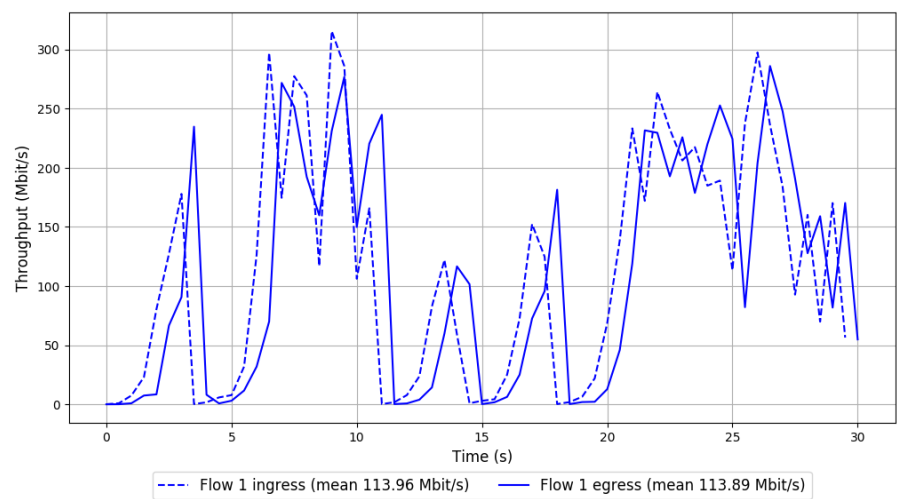


Run 1: Statistics of Verus

Start at: 2018-11-30 14:24:58  
End at: 2018-11-30 14:25:28  
Local clock offset: 0.115 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-11-30 18:09:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 113.89 Mbit/s  
95th percentile per-packet one-way delay: 237.077 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 113.89 Mbit/s  
95th percentile per-packet one-way delay: 237.077 ms  
Loss rate: 1.06%

Run 1: Report of Verus — Data Link

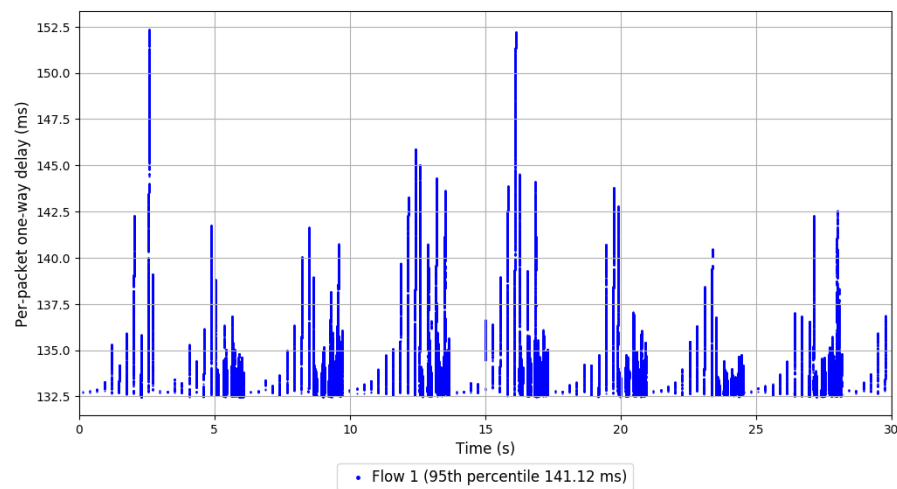
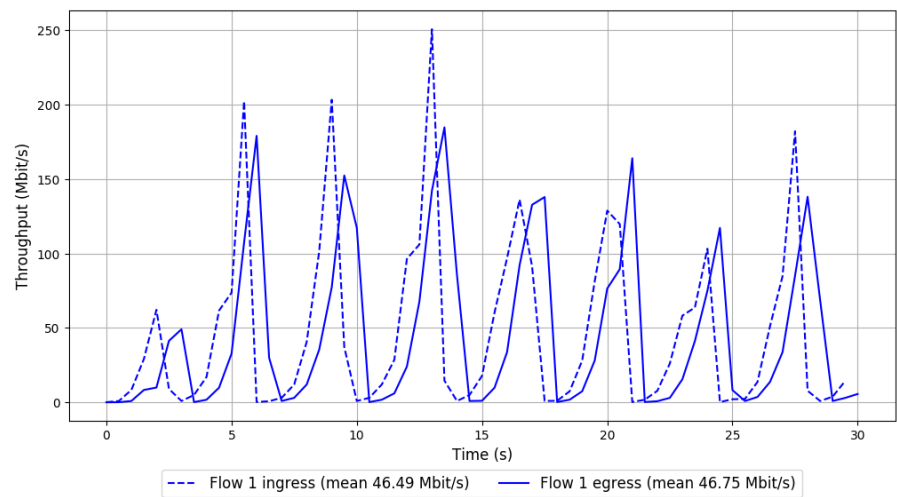


Run 2: Statistics of Verus

Start at: 2018-11-30 14:55:36  
End at: 2018-11-30 14:56:06  
Local clock offset: -0.252 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-11-30 18:09:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.75 Mbit/s  
95th percentile per-packet one-way delay: 141.120 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 46.75 Mbit/s  
95th percentile per-packet one-way delay: 141.120 ms  
Loss rate: 0.34%

Run 2: Report of Verus — Data Link

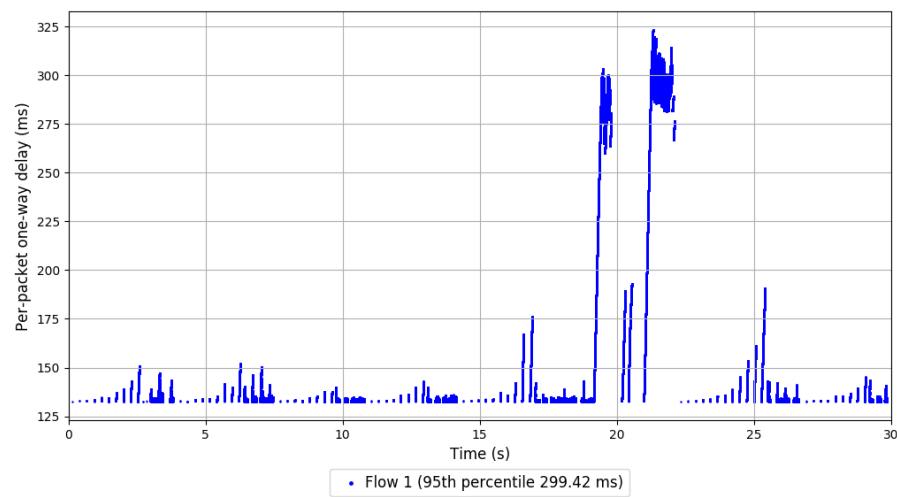
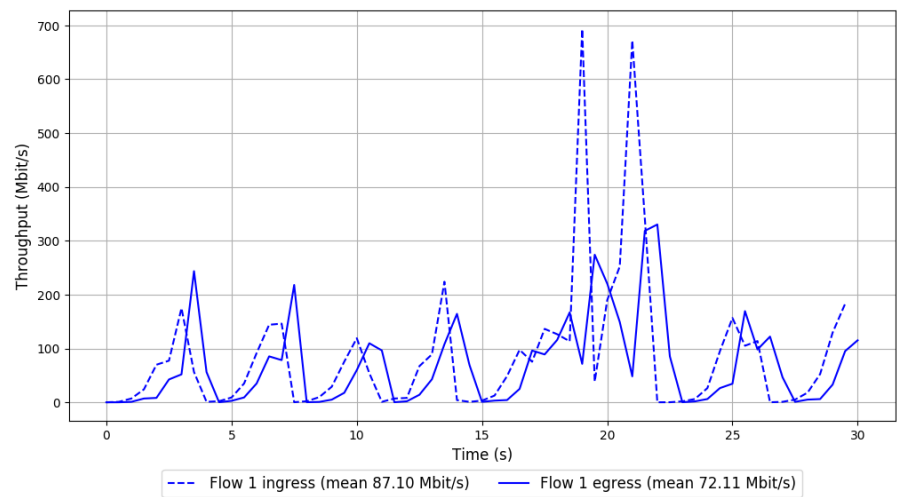


Run 3: Statistics of Verus

Start at: 2018-11-30 15:26:14  
End at: 2018-11-30 15:26:44  
Local clock offset: 0.348 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-11-30 18:09:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 72.11 Mbit/s  
95th percentile per-packet one-way delay: 299.417 ms  
Loss rate: 17.95%  
-- Flow 1:  
Average throughput: 72.11 Mbit/s  
95th percentile per-packet one-way delay: 299.417 ms  
Loss rate: 17.95%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-11-30 15:57:44

End at: 2018-11-30 15:58:14

Local clock offset: 0.087 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-11-30 18:09:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 174.71 Mbit/s

95th percentile per-packet one-way delay: 296.893 ms

Loss rate: 20.34%

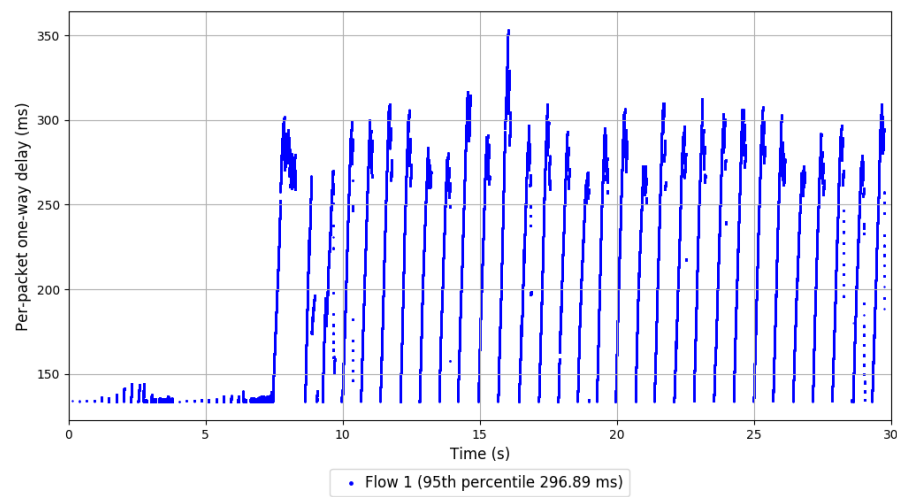
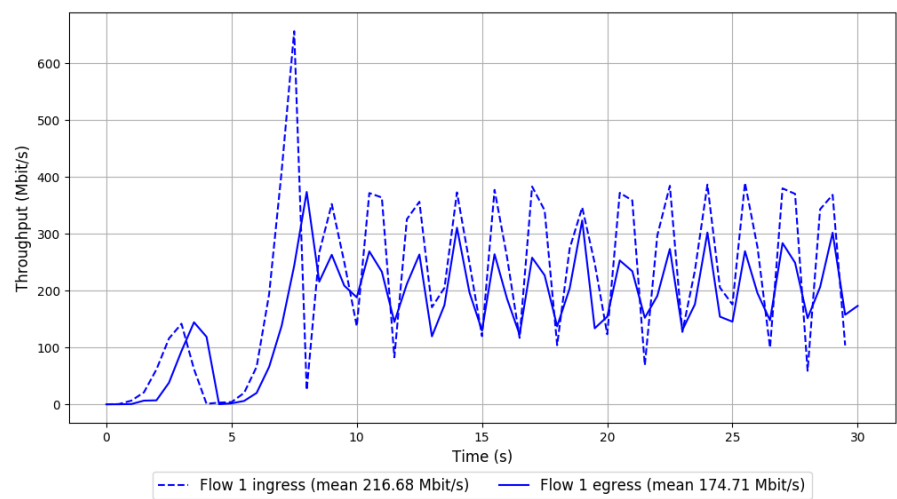
-- Flow 1:

Average throughput: 174.71 Mbit/s

95th percentile per-packet one-way delay: 296.893 ms

Loss rate: 20.34%

Run 4: Report of Verus — Data Link

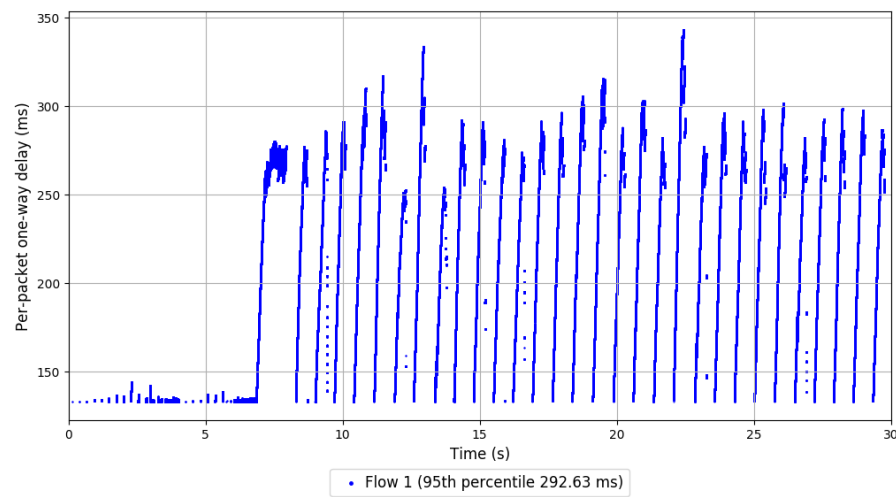
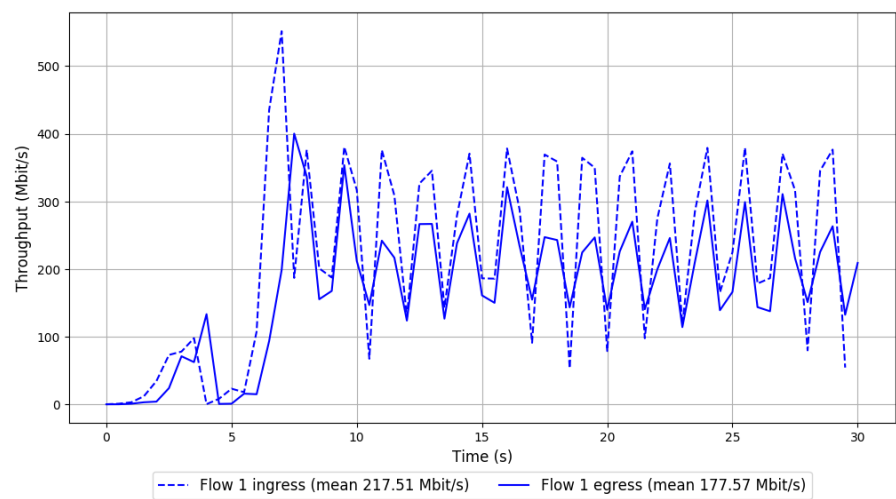


Run 5: Statistics of Verus

Start at: 2018-11-30 16:27:53  
End at: 2018-11-30 16:28:23  
Local clock offset: -0.278 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-11-30 18:11:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 177.57 Mbit/s  
95th percentile per-packet one-way delay: 292.627 ms  
Loss rate: 19.30%  
-- Flow 1:  
Average throughput: 177.57 Mbit/s  
95th percentile per-packet one-way delay: 292.627 ms  
Loss rate: 19.30%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-11-30 14:03:08

End at: 2018-11-30 14:03:38

Local clock offset: 0.196 ms

Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-11-30 18:11:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 354.58 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 1.19%

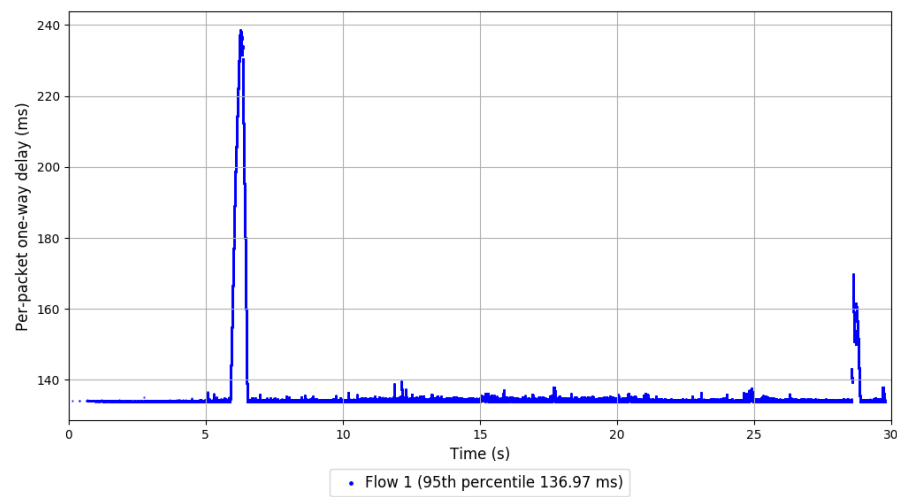
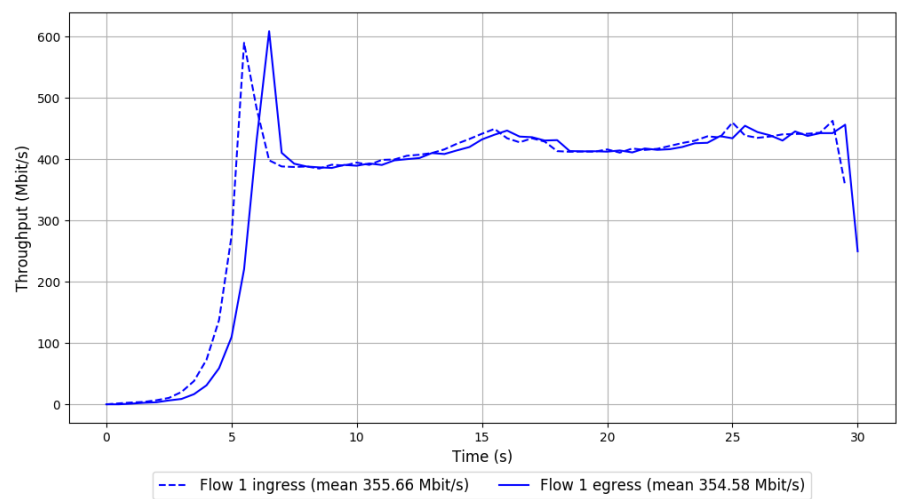
-- Flow 1:

Average throughput: 354.58 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 1.19%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-11-30 14:32:50

End at: 2018-11-30 14:33:20

Local clock offset: 0.133 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-11-30 18:11:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 348.11 Mbit/s

95th percentile per-packet one-way delay: 135.236 ms

Loss rate: 1.25%

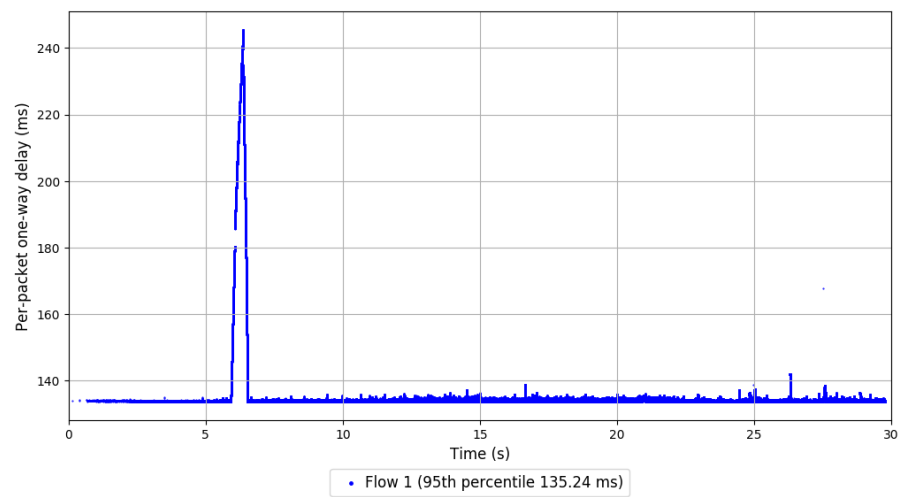
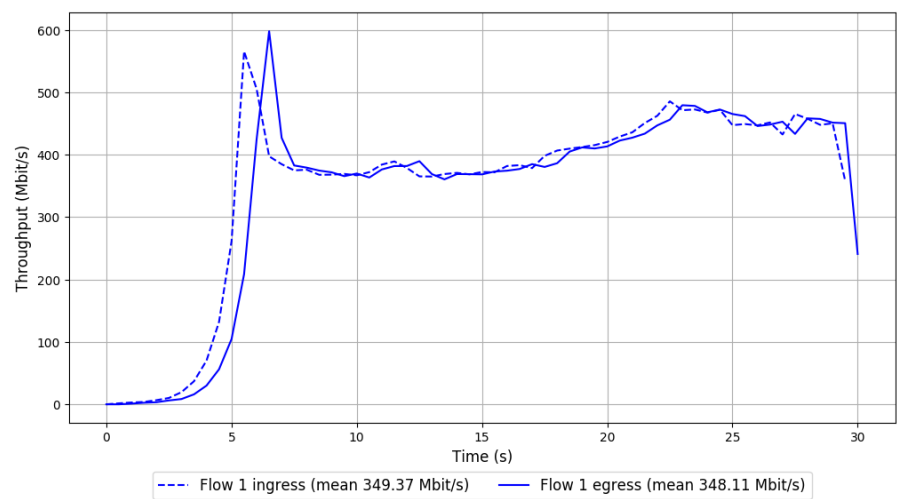
-- Flow 1:

Average throughput: 348.11 Mbit/s

95th percentile per-packet one-way delay: 135.236 ms

Loss rate: 1.25%

Run 2: Report of PCC-Vivace — Data Link

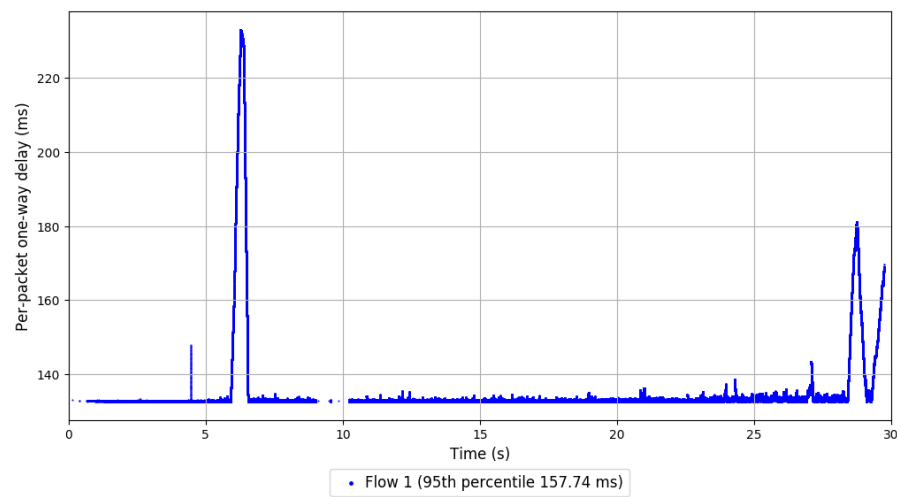
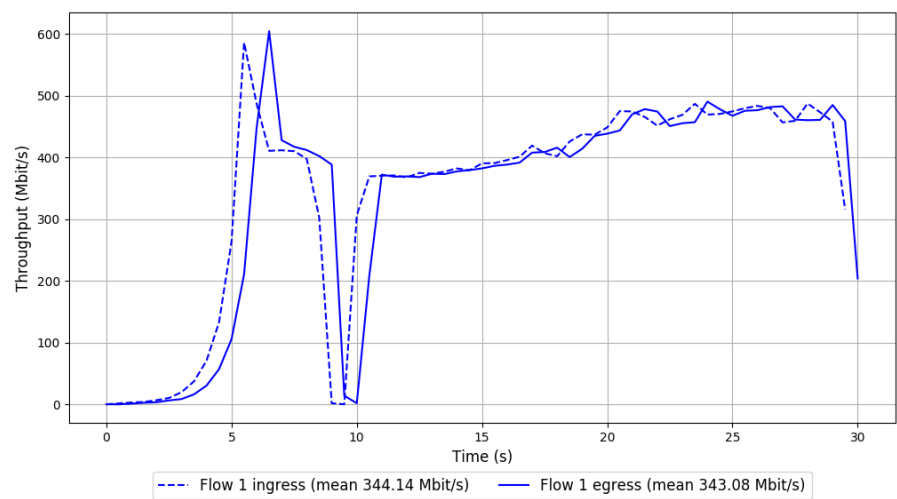


Run 3: Statistics of PCC-Vivace

Start at: 2018-11-30 15:03:45  
End at: 2018-11-30 15:04:15  
Local clock offset: -0.135 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-11-30 18:11:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 343.08 Mbit/s  
95th percentile per-packet one-way delay: 157.738 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 343.08 Mbit/s  
95th percentile per-packet one-way delay: 157.738 ms  
Loss rate: 1.20%

Run 3: Report of PCC-Vivace — Data Link

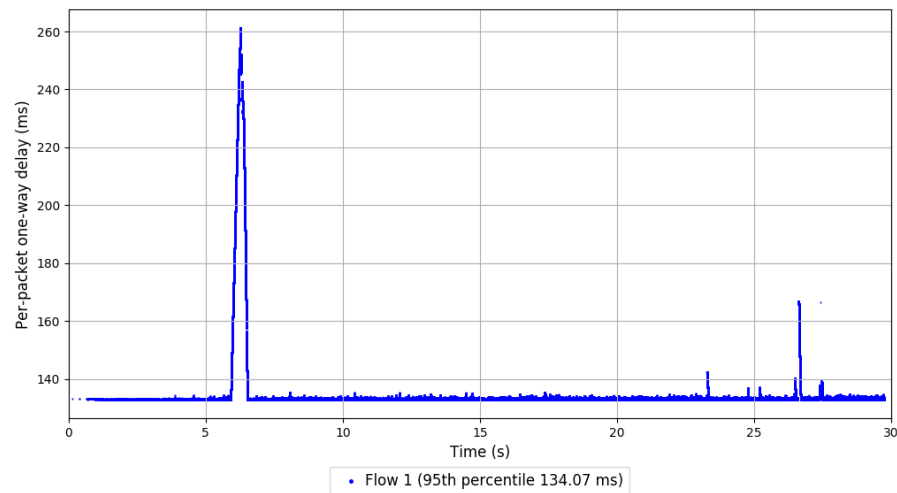
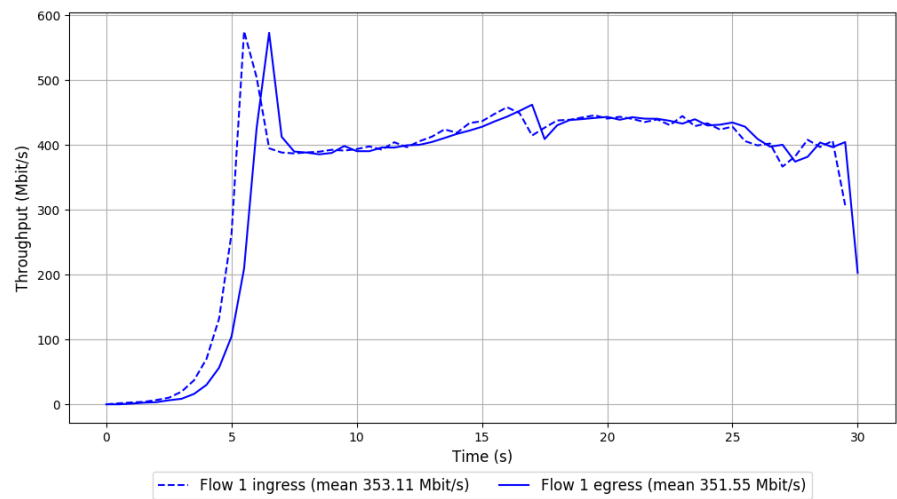


Run 4: Statistics of PCC-Vivace

Start at: 2018-11-30 15:34:47  
End at: 2018-11-30 15:35:17  
Local clock offset: -0.352 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-11-30 18:12:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 351.55 Mbit/s  
95th percentile per-packet one-way delay: 134.073 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 351.55 Mbit/s  
95th percentile per-packet one-way delay: 134.073 ms  
Loss rate: 1.33%

Run 4: Report of PCC-Vivace — Data Link

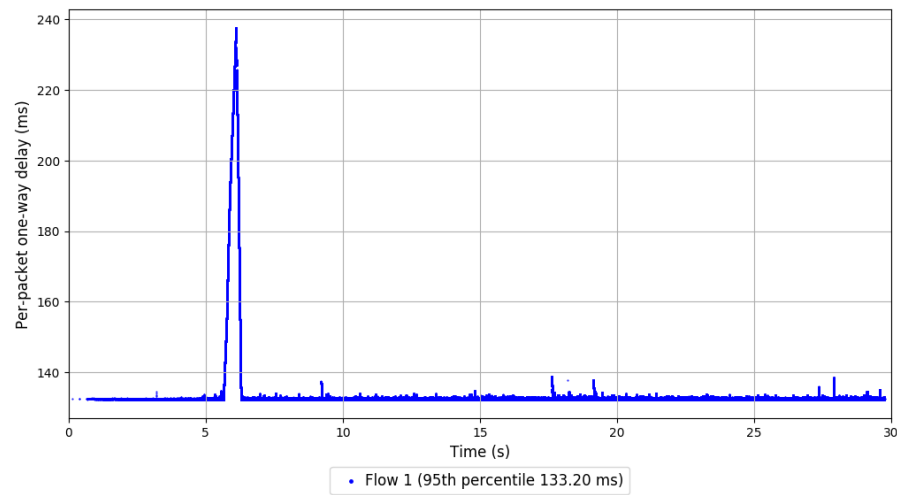
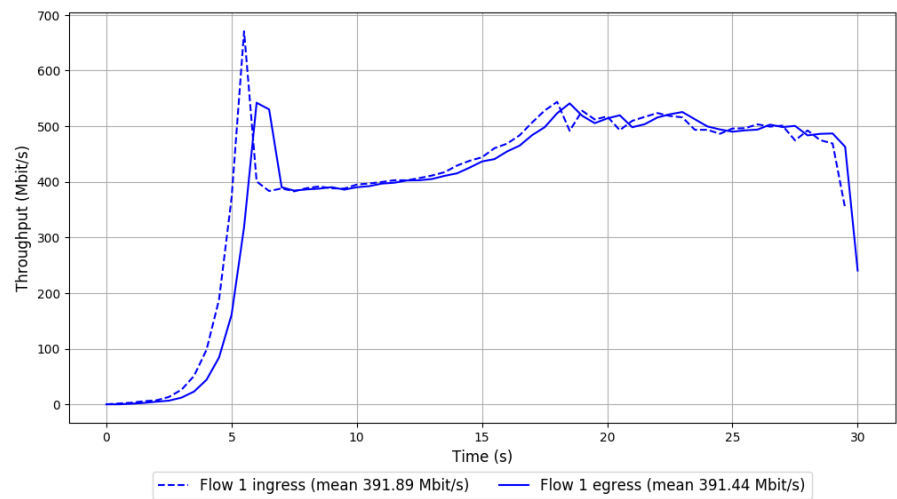


Run 5: Statistics of PCC-Vivace

Start at: 2018-11-30 16:05:46  
End at: 2018-11-30 16:06:16  
Local clock offset: -0.091 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-11-30 18:12:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 391.44 Mbit/s  
95th percentile per-packet one-way delay: 133.200 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 391.44 Mbit/s  
95th percentile per-packet one-way delay: 133.200 ms  
Loss rate: 1.01%

Run 5: Report of PCC-Vivace — Data Link

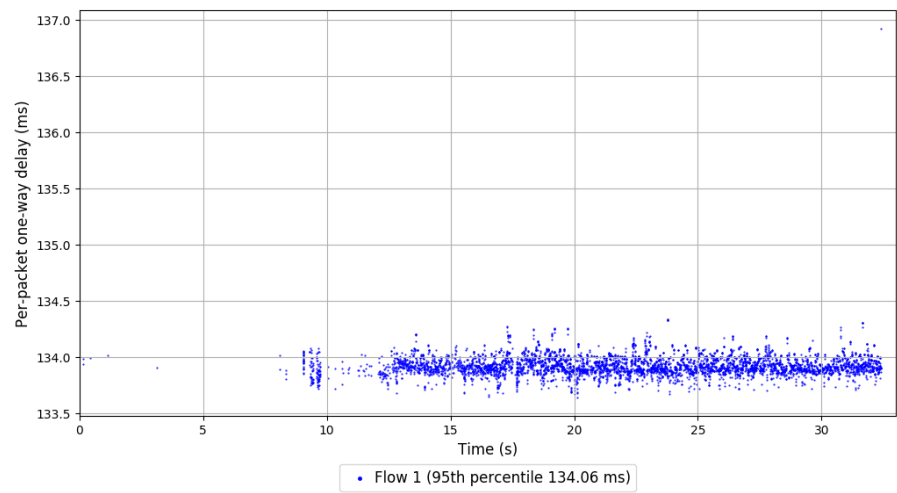
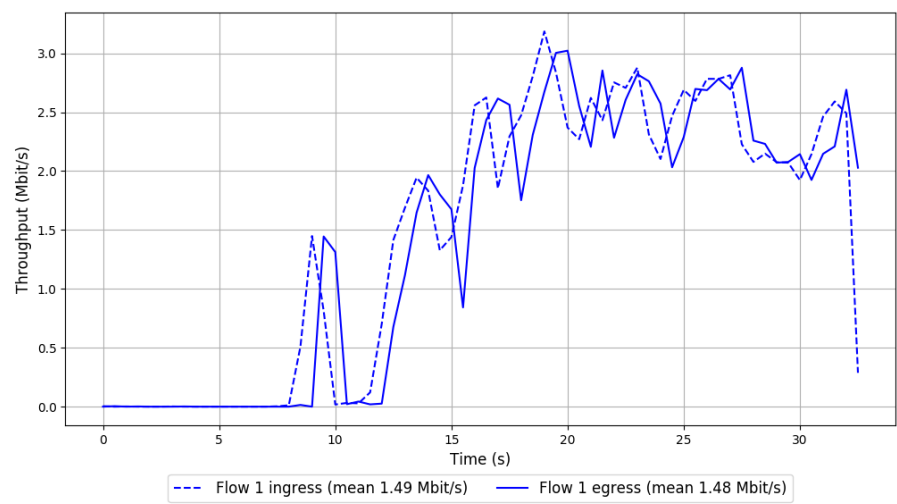


Run 1: Statistics of WebRTC media

Start at: 2018-11-30 13:58:19  
End at: 2018-11-30 13:58:49  
Local clock offset: 0.114 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-11-30 18:12:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 134.063 ms  
Loss rate: 1.46%  
-- Flow 1:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 134.063 ms  
Loss rate: 1.46%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-11-30 14:28:06

End at: 2018-11-30 14:28:36

Local clock offset: -0.344 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-11-30 18:12:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 132.945 ms

Loss rate: 0.95%

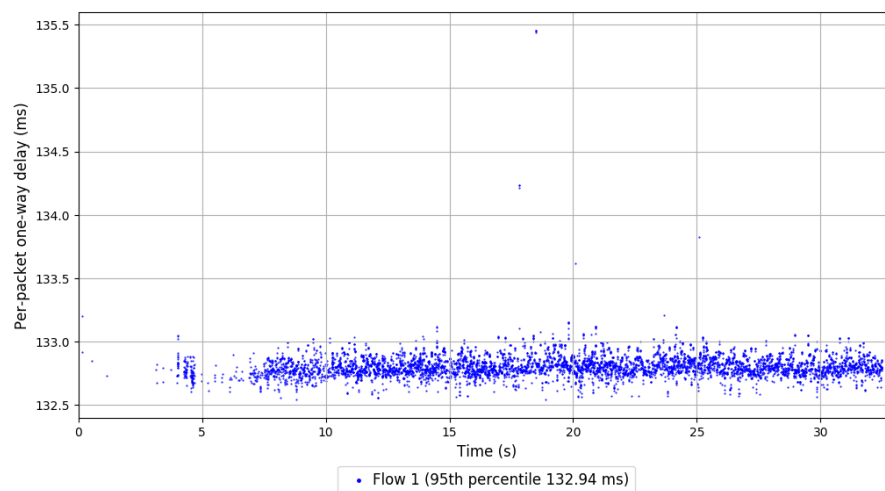
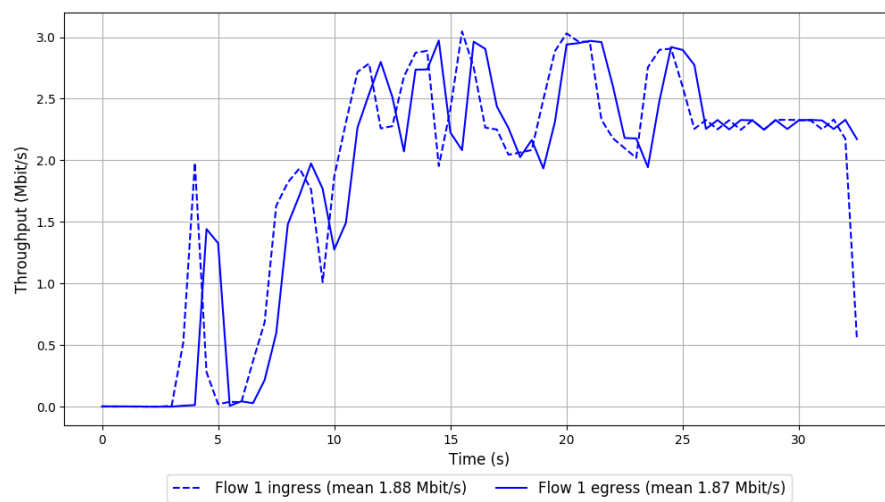
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 132.945 ms

Loss rate: 0.95%

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



Run 3: Statistics of WebRTC media

Start at: 2018-11-30 14:58:53

End at: 2018-11-30 14:59:23

Local clock offset: -0.252 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-11-30 18:12:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 133.555 ms

Loss rate: 1.10%

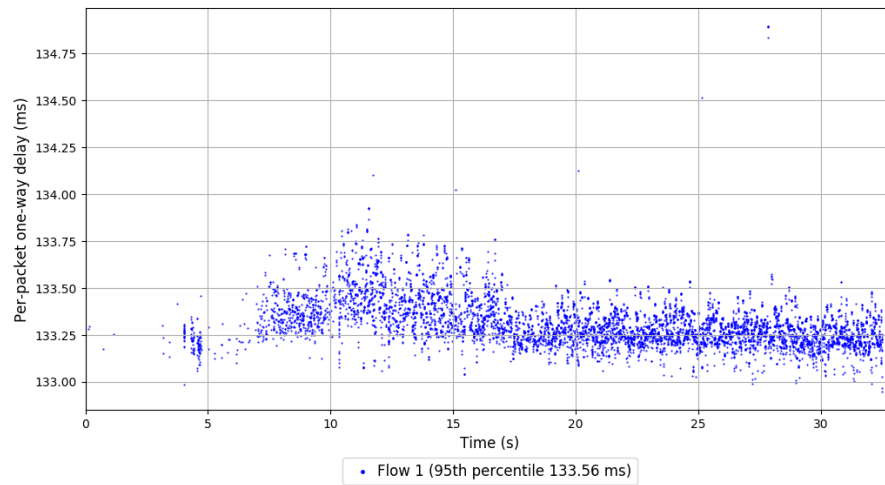
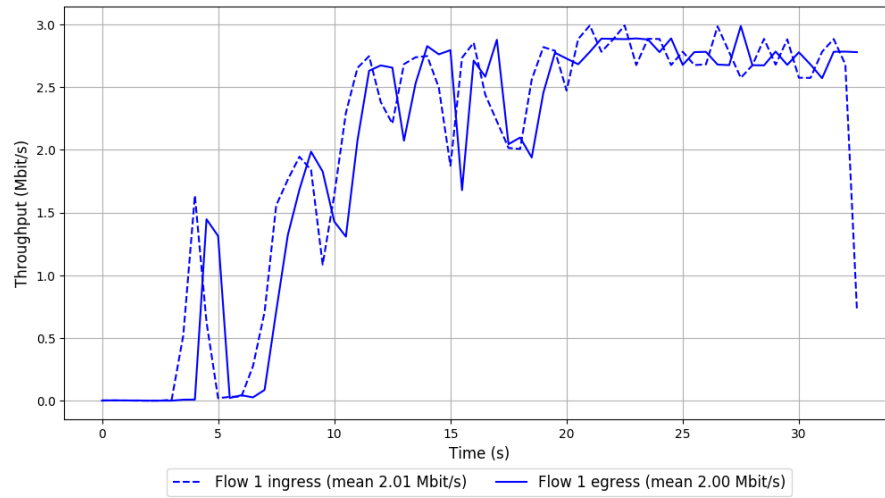
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 133.555 ms

Loss rate: 1.10%

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

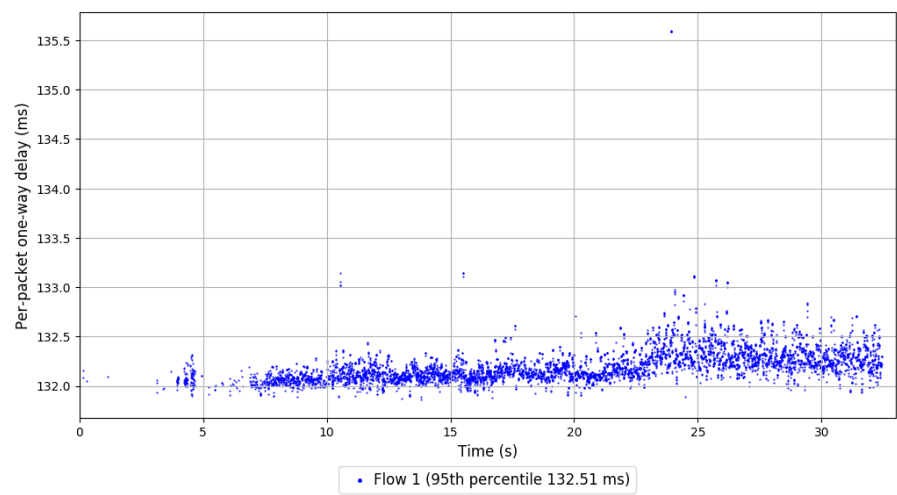
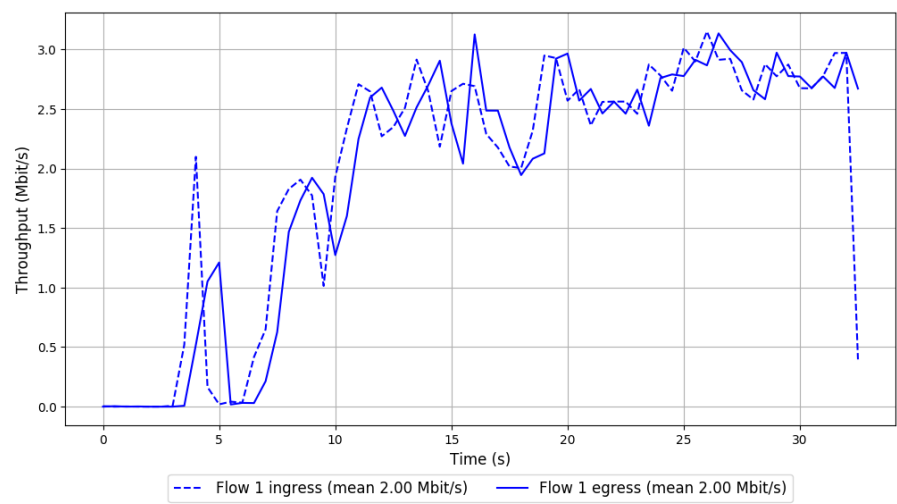


Run 4: Statistics of WebRTC media

Start at: 2018-11-30 15:29:43  
End at: 2018-11-30 15:30:13  
Local clock offset: -0.525 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-11-30 18:12:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 132.515 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 2.00 Mbit/s  
95th percentile per-packet one-way delay: 132.515 ms  
Loss rate: 1.14%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-11-30 16:00:57  
End at: 2018-11-30 16:01:28  
Local clock offset: -0.02 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-11-30 18:12:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.91 Mbit/s  
95th percentile per-packet one-way delay: 134.086 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 1.91 Mbit/s  
95th percentile per-packet one-way delay: 134.086 ms  
Loss rate: 1.16%

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

