

## Pantheon Report

Generated at 2018-05-22 13:02:50 (UTC).

Data path: Brazil Ethernet (*remote*) → AWS Brazil 1 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

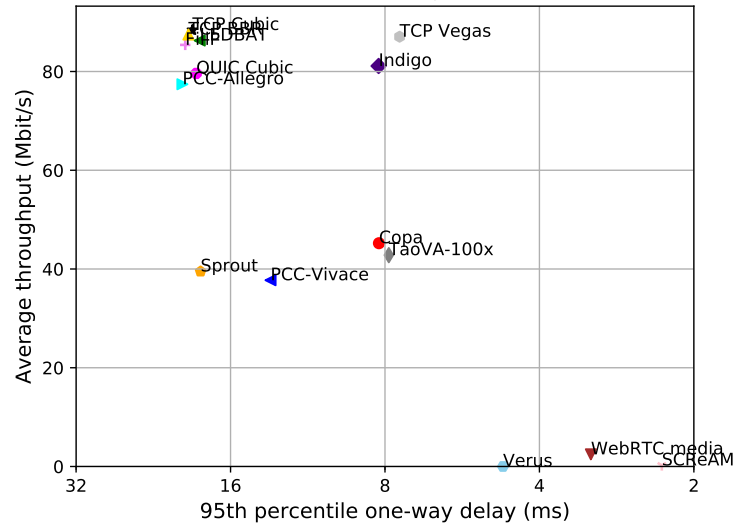
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

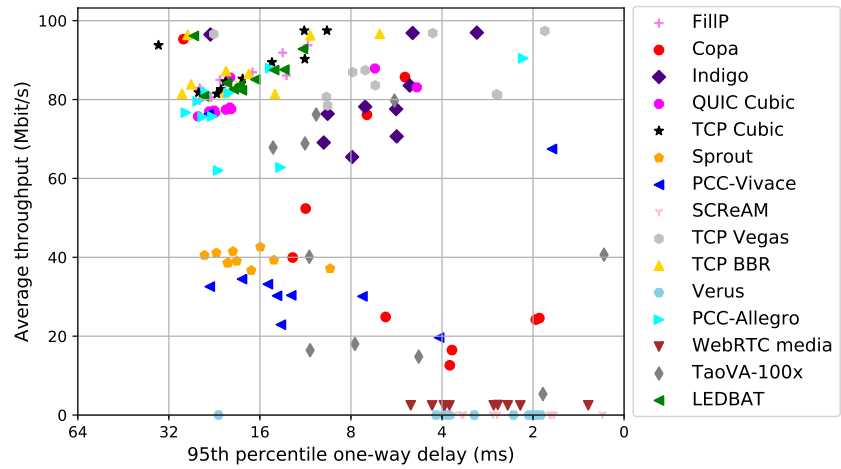
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from Brazil Ethernet to AWS Brazil 1 Ethernet, 10 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      | 10     | 87.49                            | 19.33                               | 0.04                         |
| Copa         | 10     | 45.22                            | 8.22                                | 0.01                         |
| TCP Cubic    | 10     | 88.41                            | 18.99                               | 0.06                         |
| FillP        | 10     | 85.39                            | 19.61                               | 0.05                         |
| Indigo       | 10     | 81.12                            | 8.23                                | 0.01                         |
| LEDBAT       | 10     | 86.27                            | 18.38                               | 0.09                         |
| PCC-Allegro  | 10     | 77.42                            | 19.86                               | 1.32                         |
| PCC-Expr     | 0      | N/A                              | N/A                                 | N/A                          |
| QUIC Cubic   | 10     | 79.61                            | 18.67                               | 0.03                         |
| SCReAM       | 10     | 0.22                             | 2.31                                | 0.04                         |
| Sprout       | 10     | 39.51                            | 18.31                               | 0.04                         |
| TaoVA-100x   | 10     | 42.80                            | 7.86                                | 0.01                         |
| TCP Vegas    | 10     | 87.04                            | 7.49                                | 0.01                         |
| Verus        | 10     | 0.00                             | 4.71                                | 0.00                         |
| PCC-Vivace   | 10     | 37.73                            | 13.37                               | 0.56                         |
| WebRTC media | 10     | 2.46                             | 3.18                                | 0.01                         |

Run 1: Statistics of TCP BBR

Start at: 2018-05-22 10:03:53

End at: 2018-05-22 10:04:23

Local clock offset: -3.84 ms

Remote clock offset: -4.684 ms

# Below is generated by plot.py at 2018-05-22 12:49:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.35 Mbit/s

95th percentile per-packet one-way delay: 19.065 ms

Loss rate: 0.03%

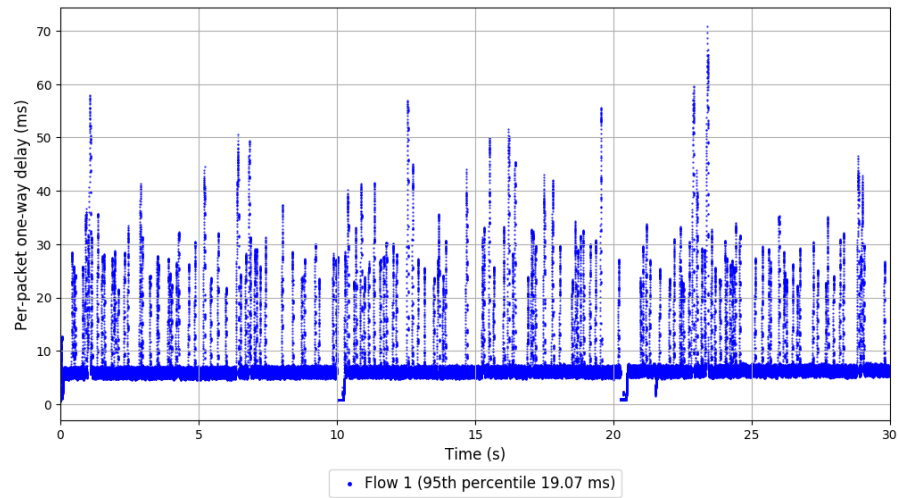
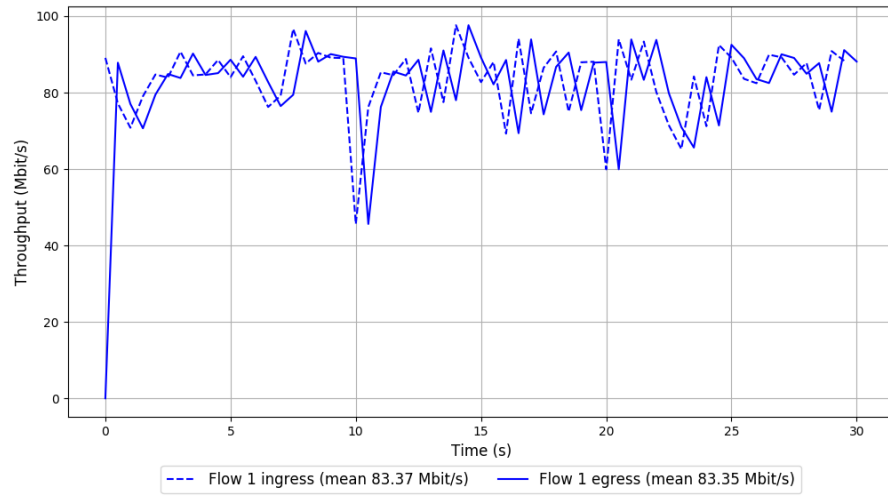
-- Flow 1:

Average throughput: 83.35 Mbit/s

95th percentile per-packet one-way delay: 19.065 ms

Loss rate: 0.03%

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

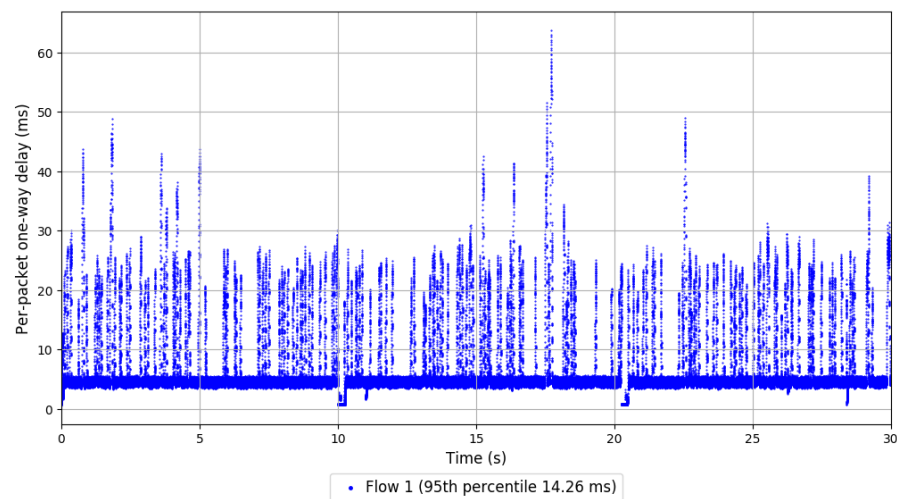
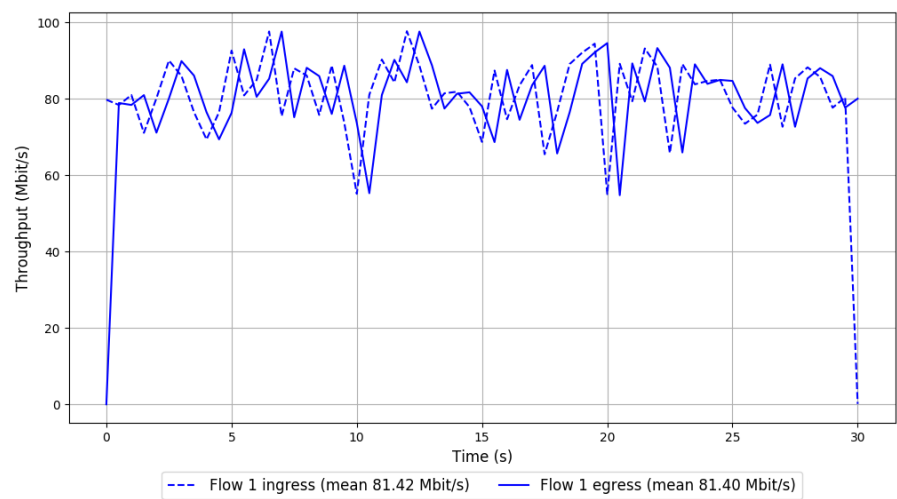


Run 2: Statistics of TCP BBR

Start at: 2018-05-22 10:21:20  
End at: 2018-05-22 10:21:50  
Local clock offset: -6.568 ms  
Remote clock offset: -1.352 ms

# Below is generated by plot.py at 2018-05-22 12:49:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.40 Mbit/s  
95th percentile per-packet one-way delay: 14.260 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 81.40 Mbit/s  
95th percentile per-packet one-way delay: 14.260 ms  
Loss rate: 0.03%

Run 2: Report of TCP BBR — Data Link

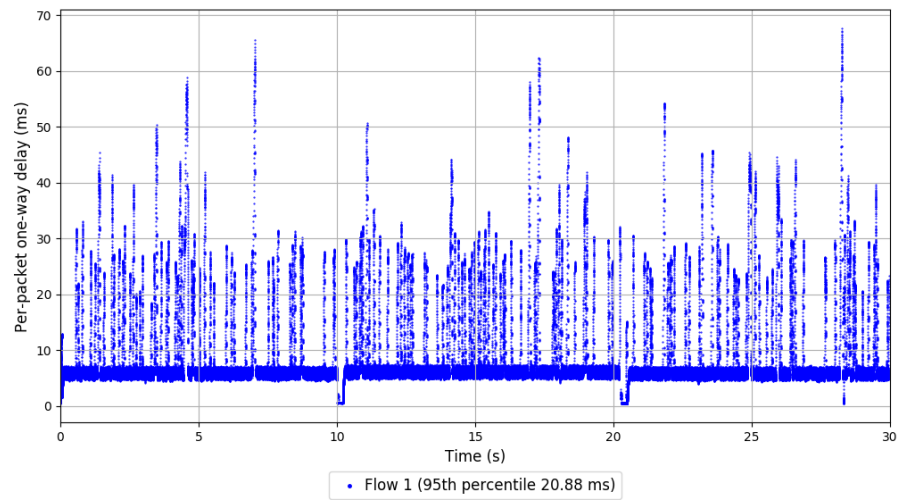
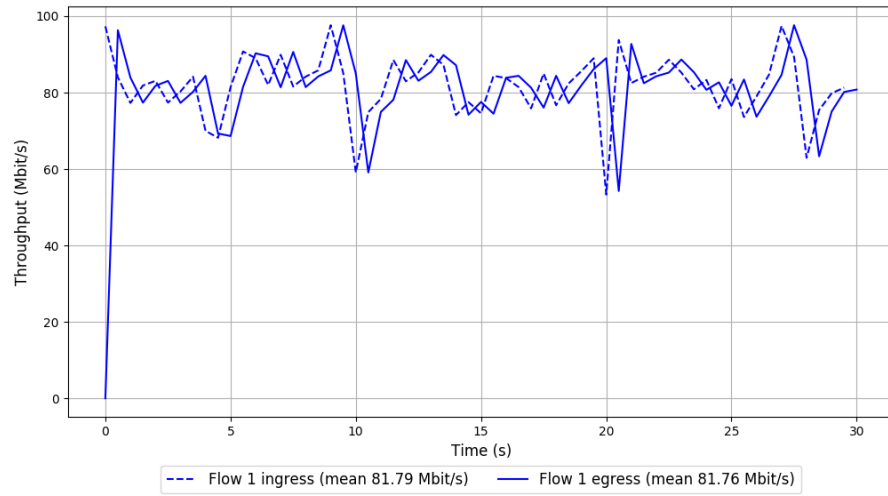


Run 3: Statistics of TCP BBR

Start at: 2018-05-22 10:38:50  
End at: 2018-05-22 10:39:20  
Local clock offset: -6.284 ms  
Remote clock offset: -4.672 ms

# Below is generated by plot.py at 2018-05-22 12:49:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.76 Mbit/s  
95th percentile per-packet one-way delay: 20.881 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 81.76 Mbit/s  
95th percentile per-packet one-way delay: 20.881 ms  
Loss rate: 0.04%

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

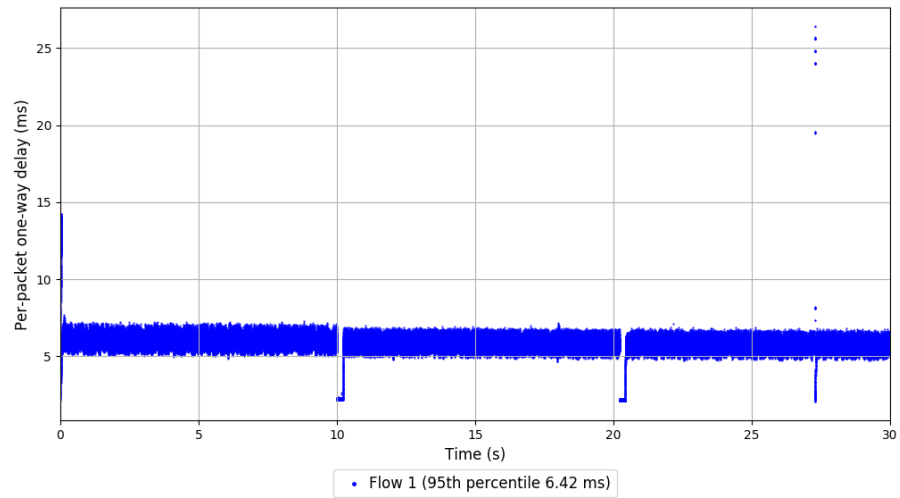
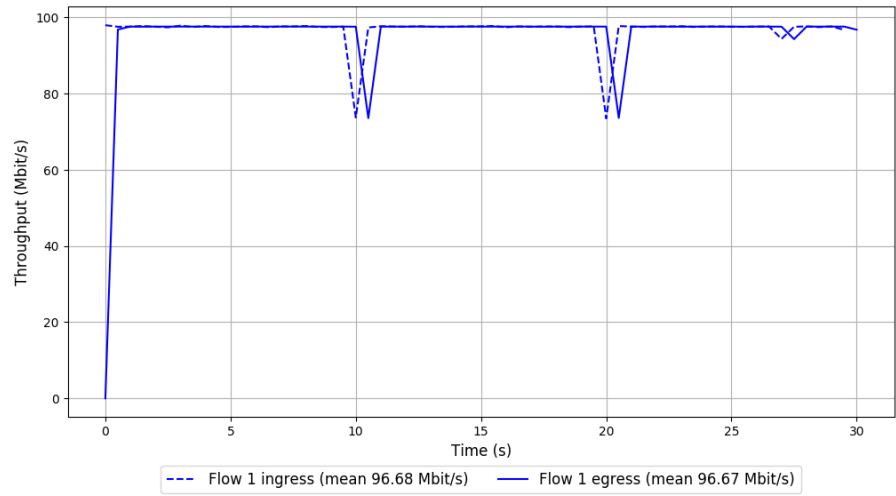


Run 4: Statistics of TCP BBR

Start at: 2018-05-22 10:56:22  
End at: 2018-05-22 10:56:52  
Local clock offset: -4.513 ms  
Remote clock offset: -7.769 ms

# Below is generated by plot.py at 2018-05-22 12:49:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.67 Mbit/s  
95th percentile per-packet one-way delay: 6.425 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 96.67 Mbit/s  
95th percentile per-packet one-way delay: 6.425 ms  
Loss rate: 0.02%

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

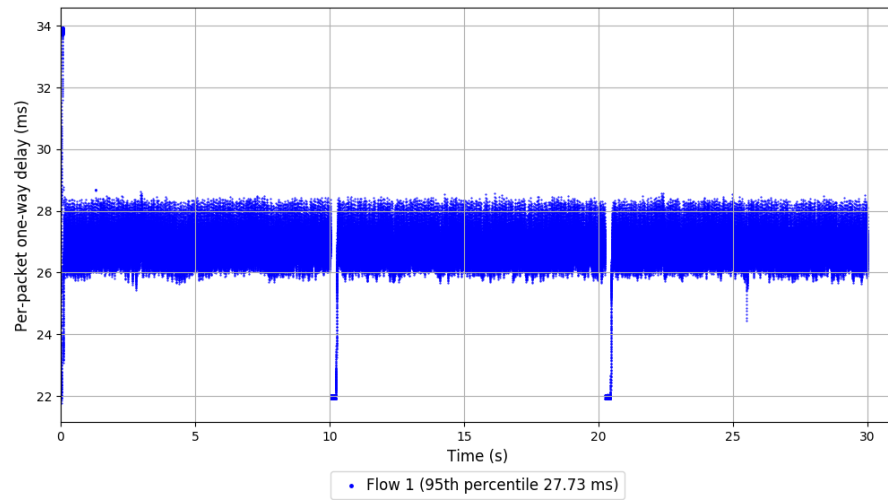
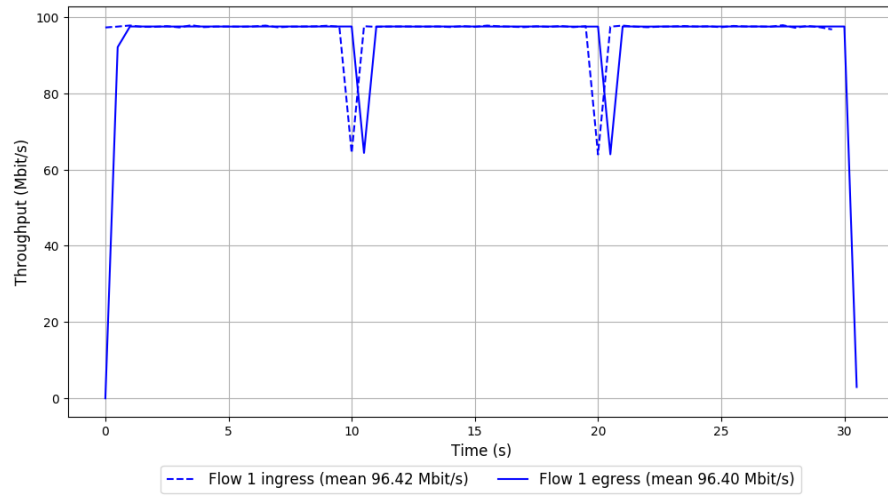


Run 5: Statistics of TCP BBR

Start at: 2018-05-22 11:14:03  
End at: 2018-05-22 11:14:33  
Local clock offset: 19.019 ms  
Remote clock offset: -7.417 ms

# Below is generated by plot.py at 2018-05-22 12:49:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.40 Mbit/s  
95th percentile per-packet one-way delay: 27.728 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 96.40 Mbit/s  
95th percentile per-packet one-way delay: 27.728 ms  
Loss rate: 0.02%

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

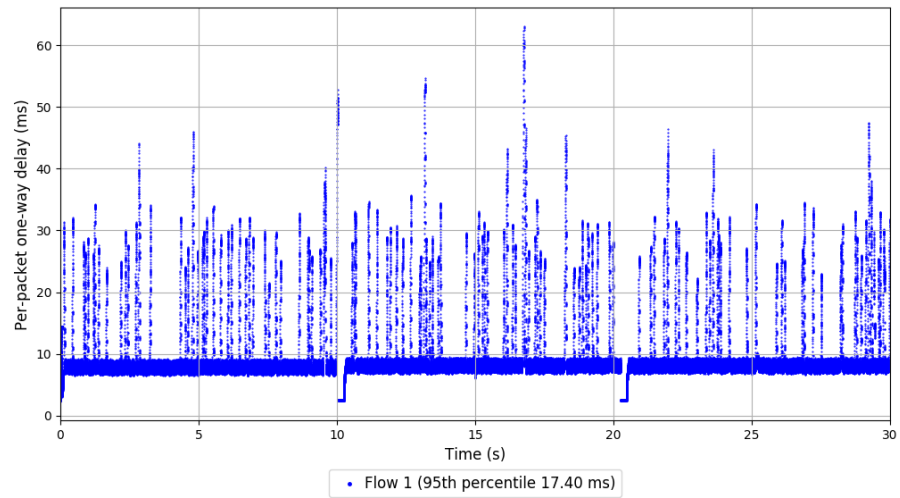
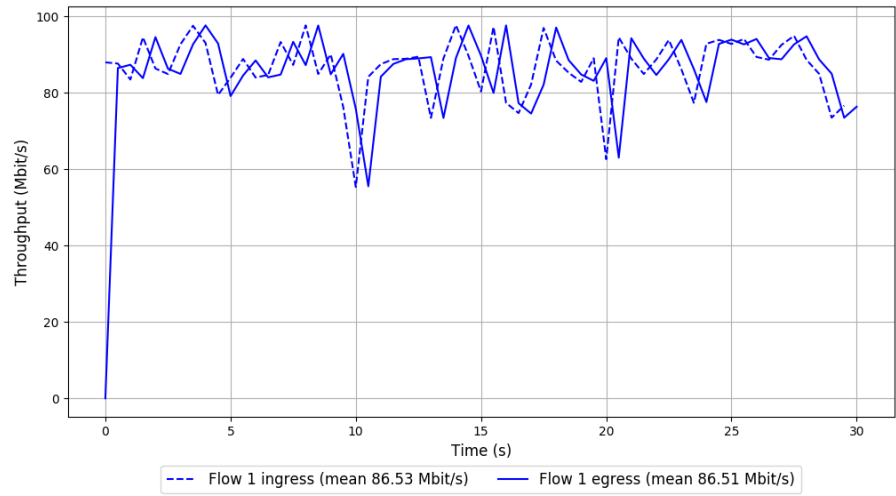


Run 6: Statistics of TCP BBR

Start at: 2018-05-22 11:31:46  
End at: 2018-05-22 11:32:16  
Local clock offset: -1.274 ms  
Remote clock offset: -6.918 ms

# Below is generated by plot.py at 2018-05-22 12:49:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.51 Mbit/s  
95th percentile per-packet one-way delay: 17.403 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 86.51 Mbit/s  
95th percentile per-packet one-way delay: 17.403 ms  
Loss rate: 0.03%

### Run 6: Report of TCP BBR — Data Link

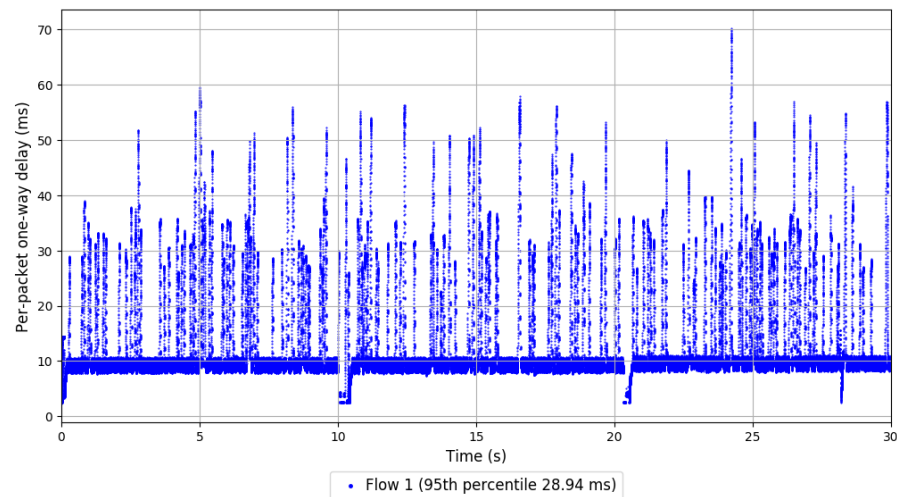
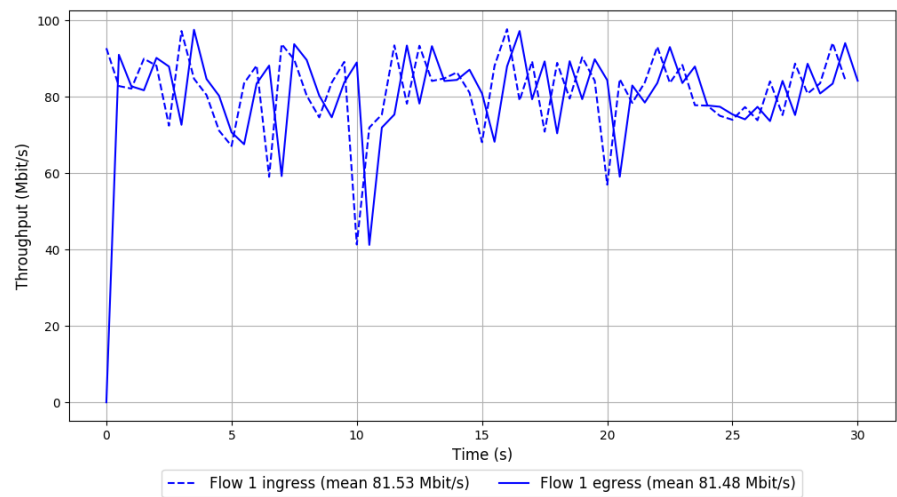


Run 7: Statistics of TCP BBR

Start at: 2018-05-22 11:49:17  
End at: 2018-05-22 11:49:47  
Local clock offset: -0.767 ms  
Remote clock offset: -2.843 ms

# Below is generated by plot.py at 2018-05-22 12:49:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.48 Mbit/s  
95th percentile per-packet one-way delay: 28.944 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 81.48 Mbit/s  
95th percentile per-packet one-way delay: 28.944 ms  
Loss rate: 0.07%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-22 12:06:56

End at: 2018-05-22 12:07:26

Local clock offset: -4.66 ms

Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2018-05-22 12:49:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 27.007 ms

Loss rate: 0.07%

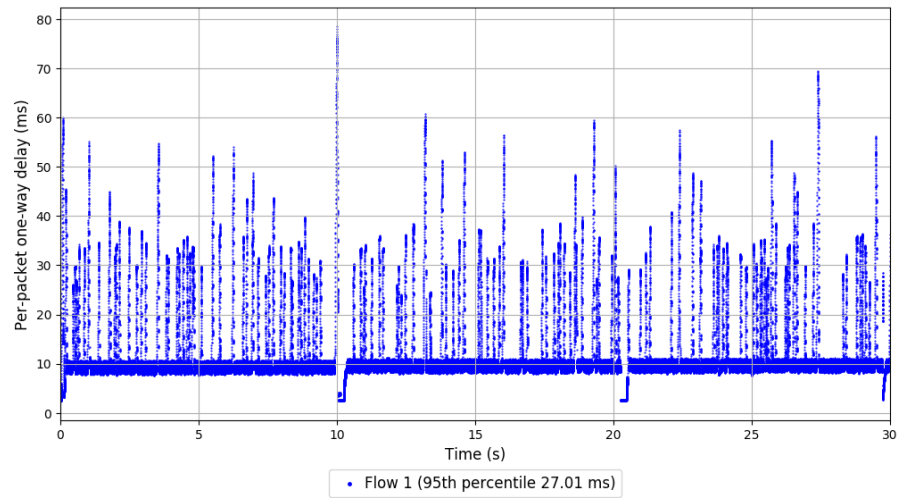
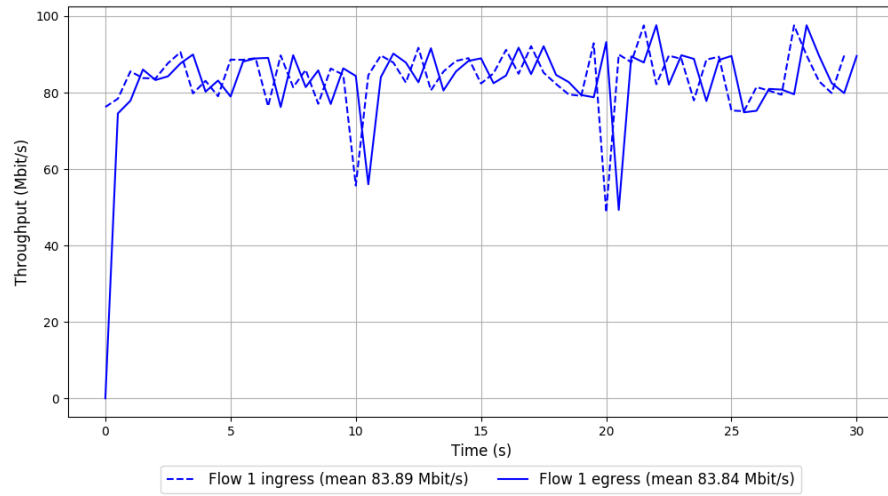
-- Flow 1:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 27.007 ms

Loss rate: 0.07%

### Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-22 12:24:30

End at: 2018-05-22 12:25:00

Local clock offset: -7.474 ms

Remote clock offset: -4.77 ms

# Below is generated by plot.py at 2018-05-22 12:50:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 20.691 ms

Loss rate: 0.06%

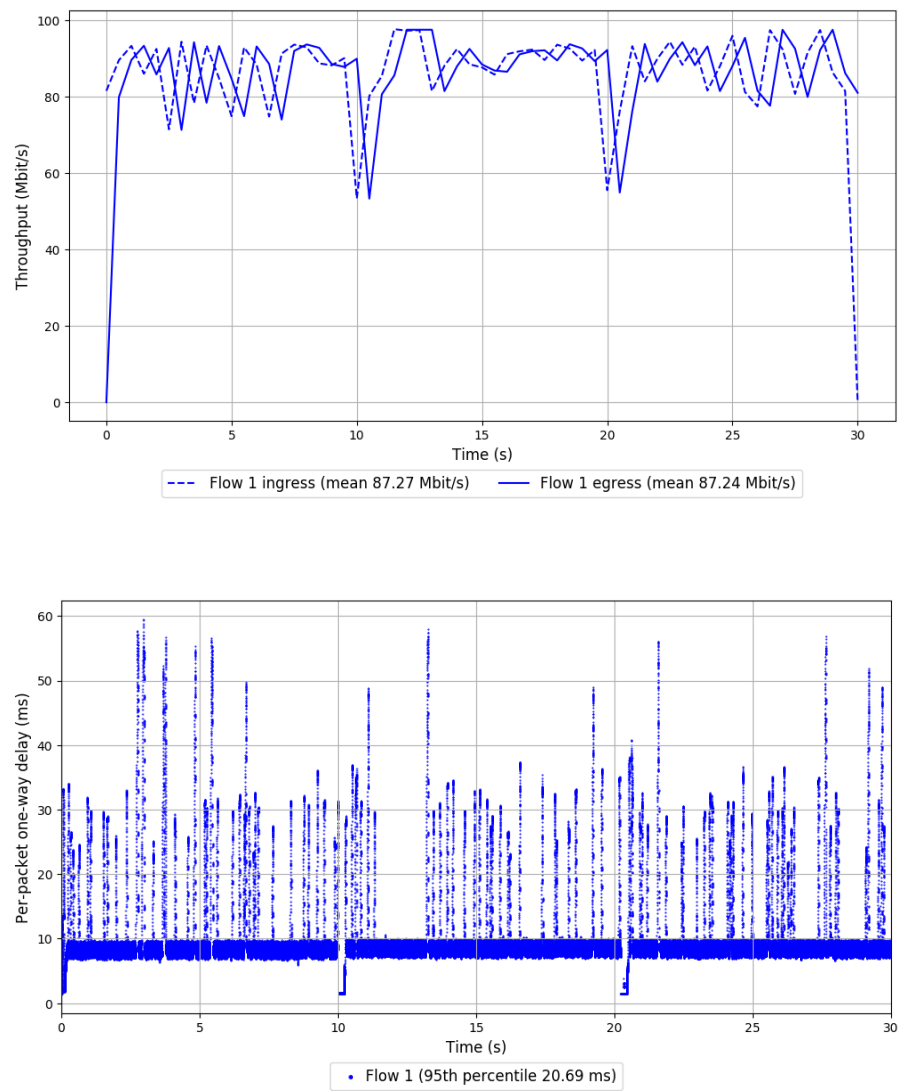
-- Flow 1:

Average throughput: 87.24 Mbit/s

95th percentile per-packet one-way delay: 20.691 ms

Loss rate: 0.06%

Run 9: Report of TCP BBR — Data Link

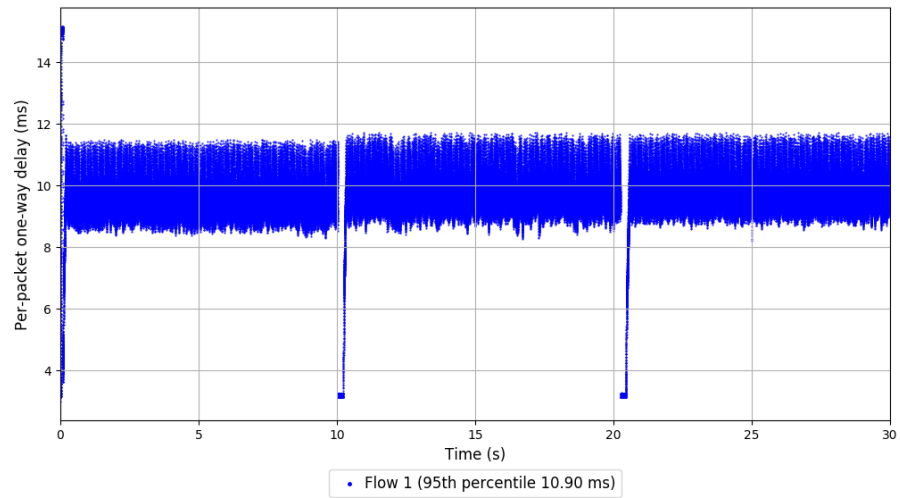
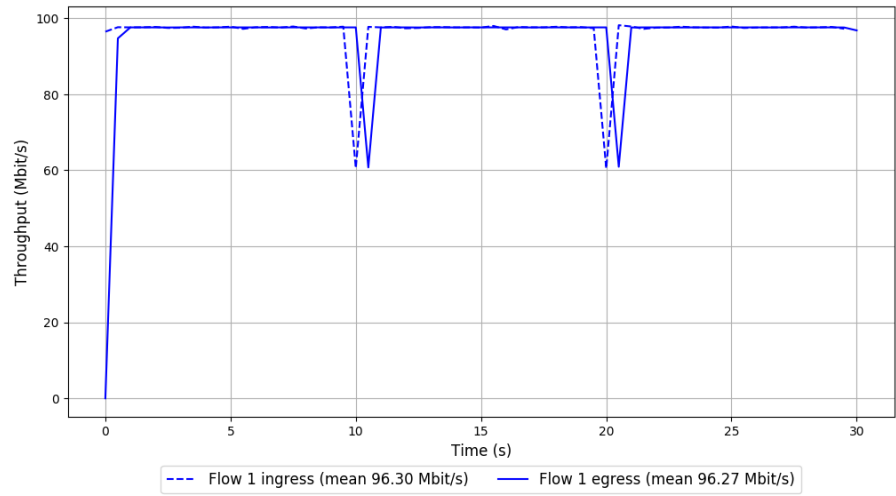


Run 10: Statistics of TCP BBR

Start at: 2018-05-22 12:42:11  
End at: 2018-05-22 12:42:41  
Local clock offset: -5.434 ms  
Remote clock offset: -7.075 ms

# Below is generated by plot.py at 2018-05-22 12:50:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 10.903 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 10.903 ms  
Loss rate: 0.05%

### Run 10: Report of TCP BBR — Data Link

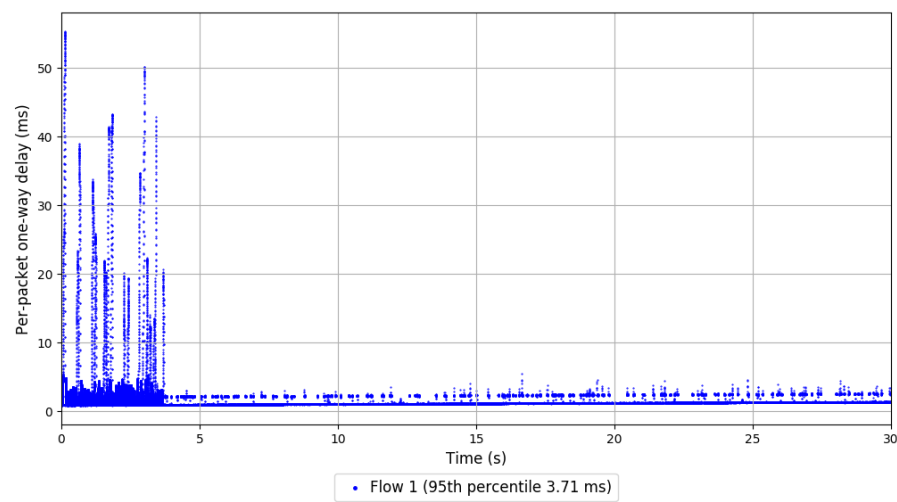
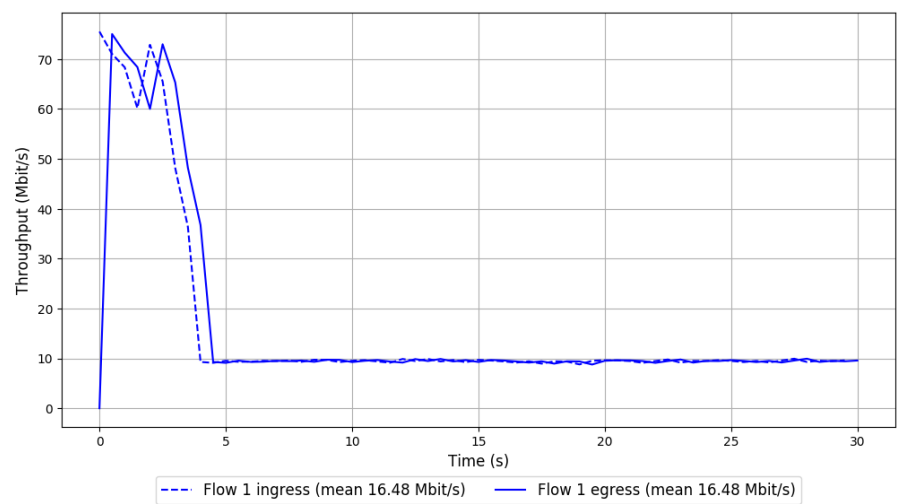


Run 1: Statistics of Copa

Start at: 2018-05-22 10:00:33  
End at: 2018-05-22 10:01:03  
Local clock offset: -2.612 ms  
Remote clock offset: -6.354 ms

# Below is generated by plot.py at 2018-05-22 12:50:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 16.48 Mbit/s  
95th percentile per-packet one-way delay: 3.707 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 16.48 Mbit/s  
95th percentile per-packet one-way delay: 3.707 ms  
Loss rate: 0.01%

Run 1: Report of Copa — Data Link

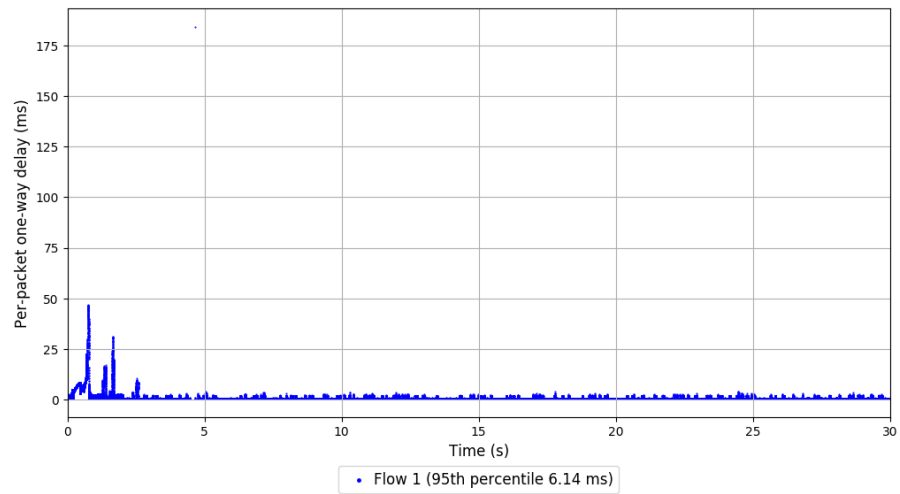
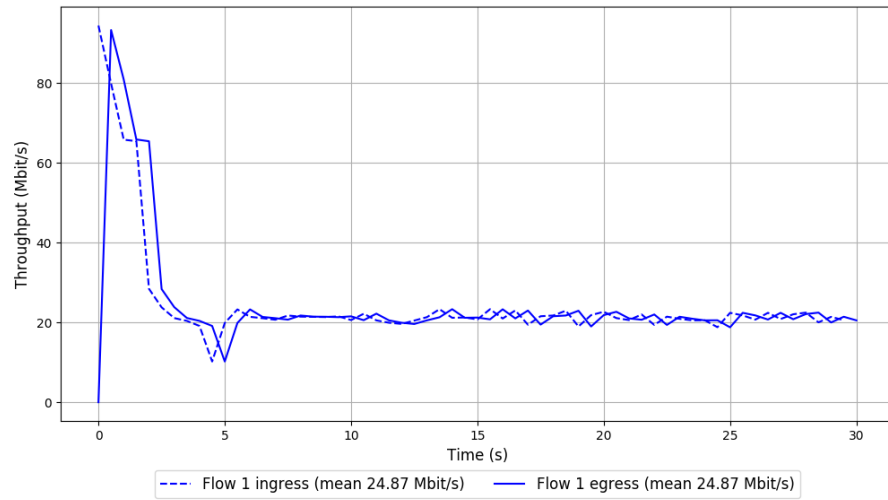


Run 2: Statistics of Copa

Start at: 2018-05-22 10:18:00  
End at: 2018-05-22 10:18:30  
Local clock offset: -6.24 ms  
Remote clock offset: -1.647 ms

# Below is generated by plot.py at 2018-05-22 12:50:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.87 Mbit/s  
95th percentile per-packet one-way delay: 6.144 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 24.87 Mbit/s  
95th percentile per-packet one-way delay: 6.144 ms  
Loss rate: 0.01%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-22 10:35:29

End at: 2018-05-22 10:35:59

Local clock offset: -6.281 ms

Remote clock offset: -3.31 ms

# Below is generated by plot.py at 2018-05-22 12:50:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 1.940 ms

Loss rate: 0.01%

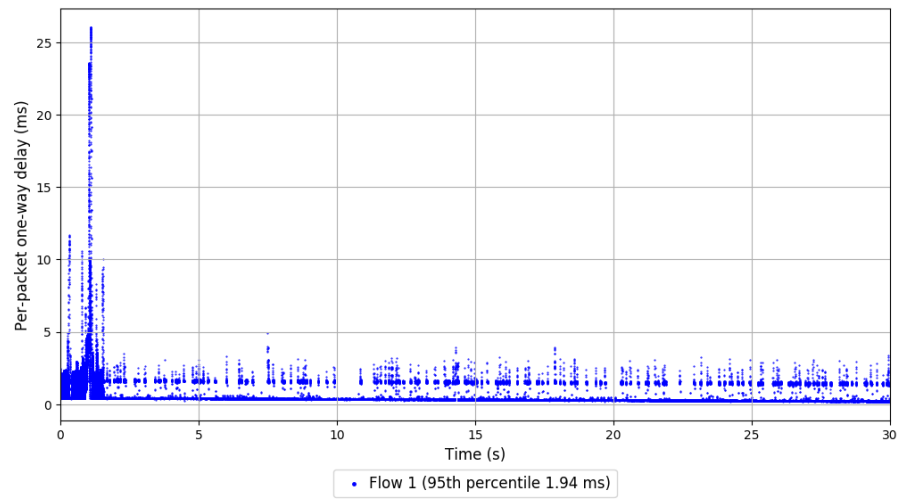
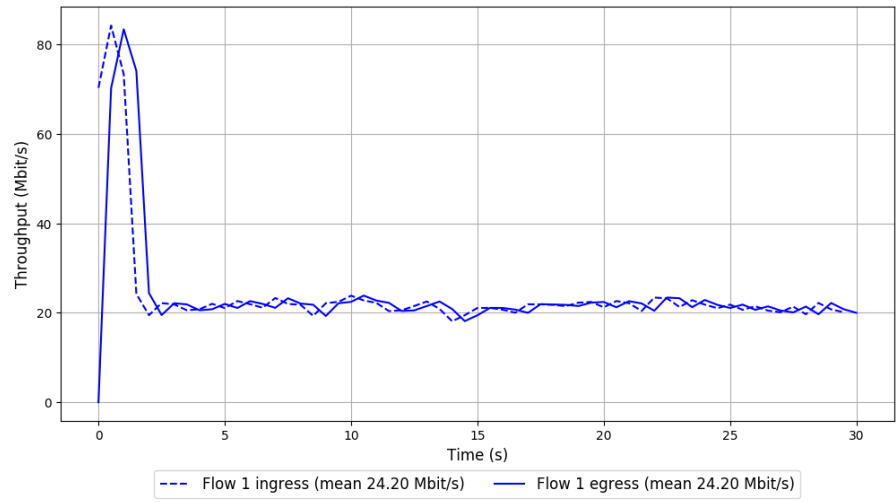
-- Flow 1:

Average throughput: 24.20 Mbit/s

95th percentile per-packet one-way delay: 1.940 ms

Loss rate: 0.01%

### Run 3: Report of Copa — Data Link

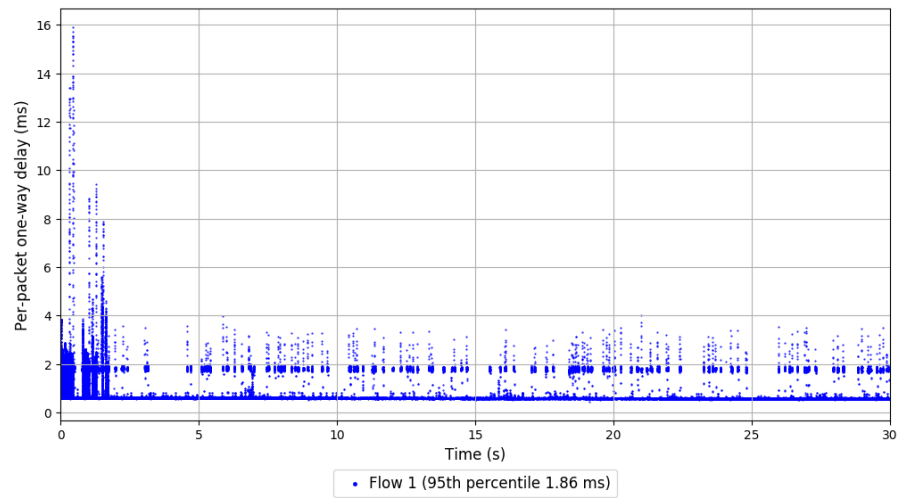
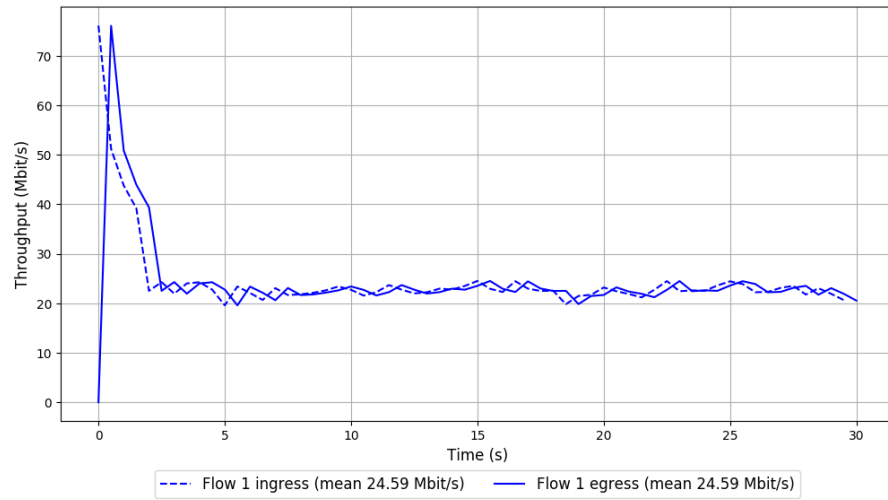


Run 4: Statistics of Copa

Start at: 2018-05-22 10:53:00  
End at: 2018-05-22 10:53:30  
Local clock offset: -6.196 ms  
Remote clock offset: -7.403 ms

# Below is generated by plot.py at 2018-05-22 12:50:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 1.861 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 1.861 ms  
Loss rate: 0.01%

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



Run 5: Statistics of Copa

Start at: 2018-05-22 11:10:36

End at: 2018-05-22 11:11:06

Local clock offset: 17.8 ms

Remote clock offset: -7.58 ms

# Below is generated by plot.py at 2018-05-22 12:51:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 28.640 ms

Loss rate: 0.03%

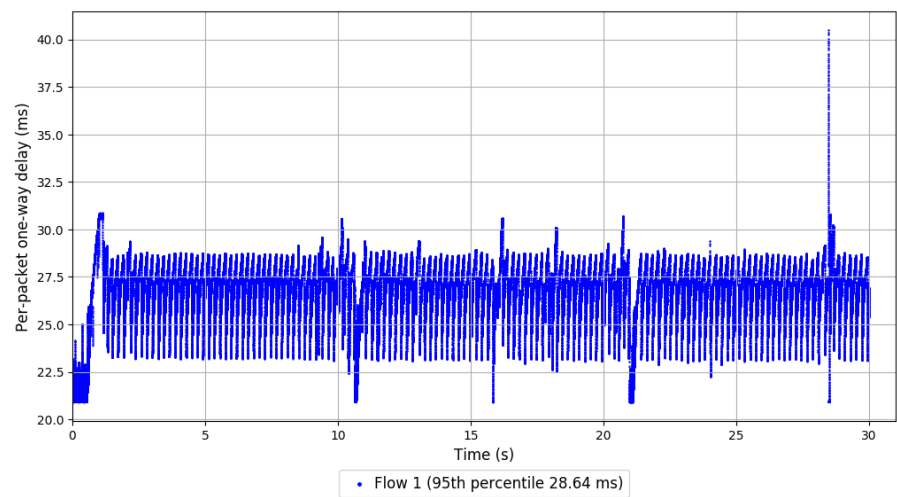
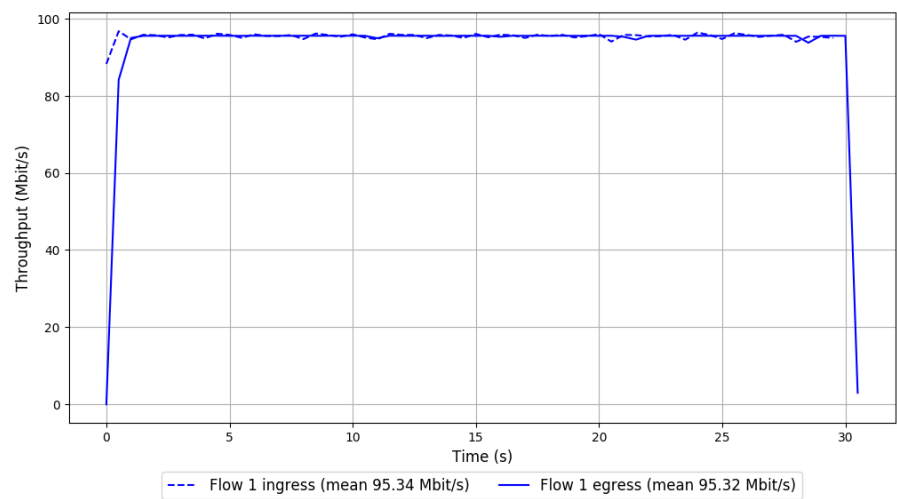
-- Flow 1:

Average throughput: 95.32 Mbit/s

95th percentile per-packet one-way delay: 28.640 ms

Loss rate: 0.03%

Run 5: Report of Copa — Data Link

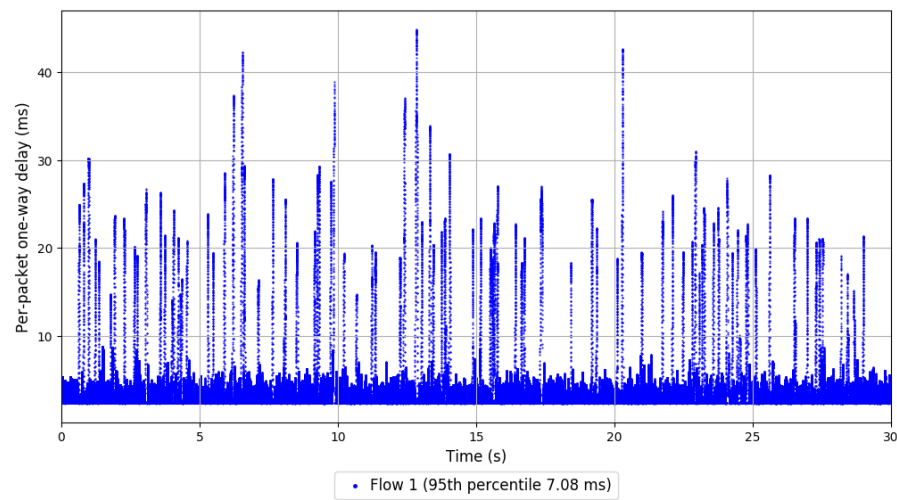
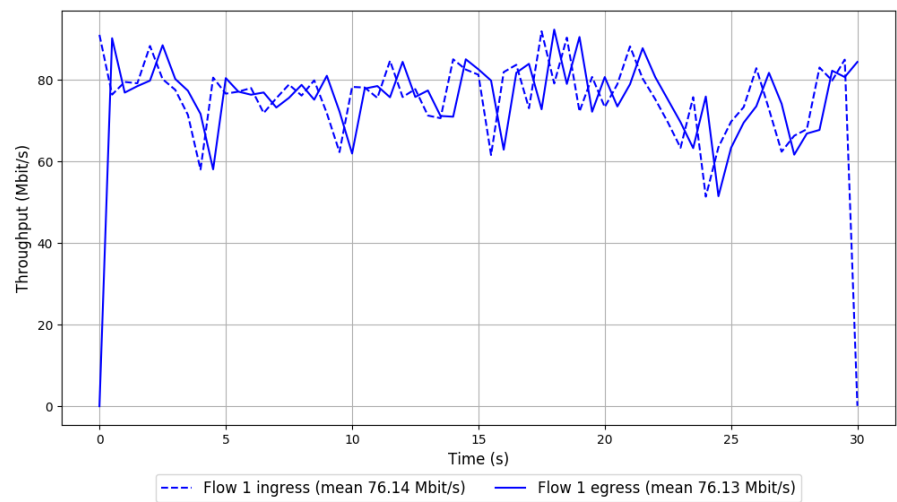


Run 6: Statistics of Copa

Start at: 2018-05-22 11:28:22  
End at: 2018-05-22 11:28:52  
Local clock offset: -1.385 ms  
Remote clock offset: -6.973 ms

# Below is generated by plot.py at 2018-05-22 12:51:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.13 Mbit/s  
95th percentile per-packet one-way delay: 7.083 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 76.13 Mbit/s  
95th percentile per-packet one-way delay: 7.083 ms  
Loss rate: 0.03%

Run 6: Report of Copa — Data Link

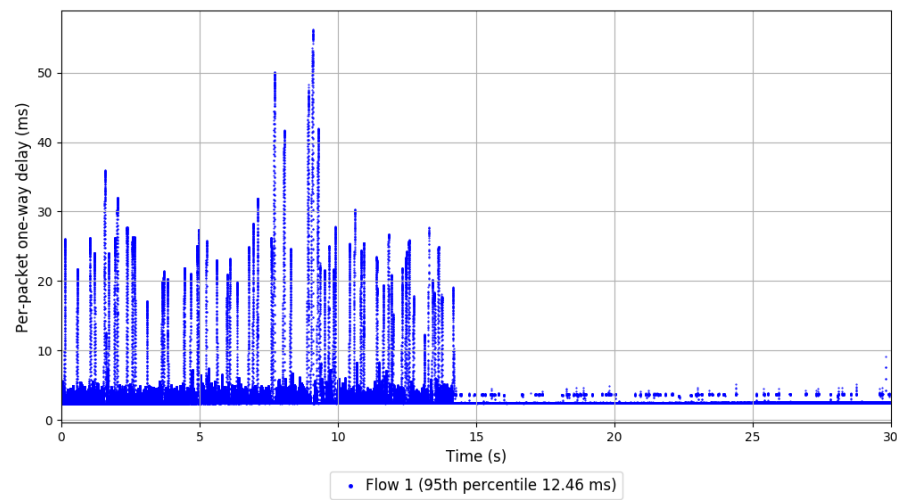
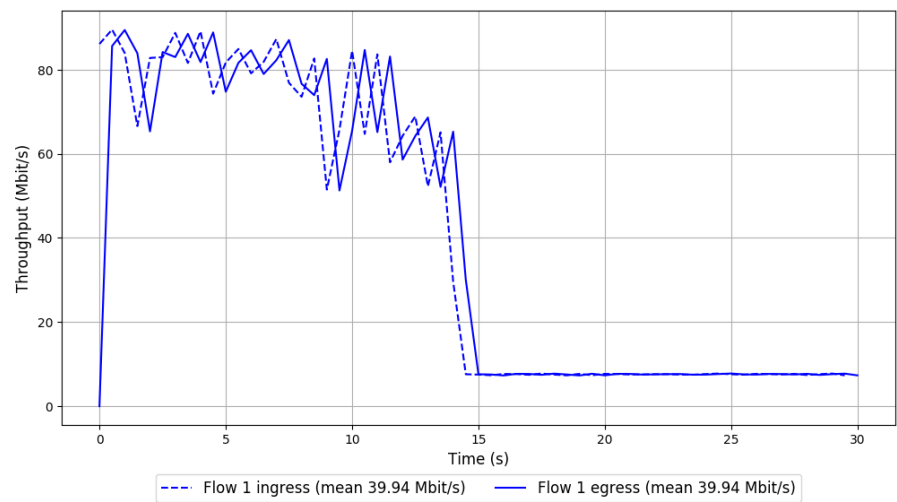


Run 7: Statistics of Copa

Start at: 2018-05-22 11:45:56  
End at: 2018-05-22 11:46:26  
Local clock offset: -0.88 ms  
Remote clock offset: -3.744 ms

# Below is generated by plot.py at 2018-05-22 12:51:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 39.94 Mbit/s  
95th percentile per-packet one-way delay: 12.465 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 39.94 Mbit/s  
95th percentile per-packet one-way delay: 12.465 ms  
Loss rate: 0.01%

Run 7: Report of Copa — Data Link

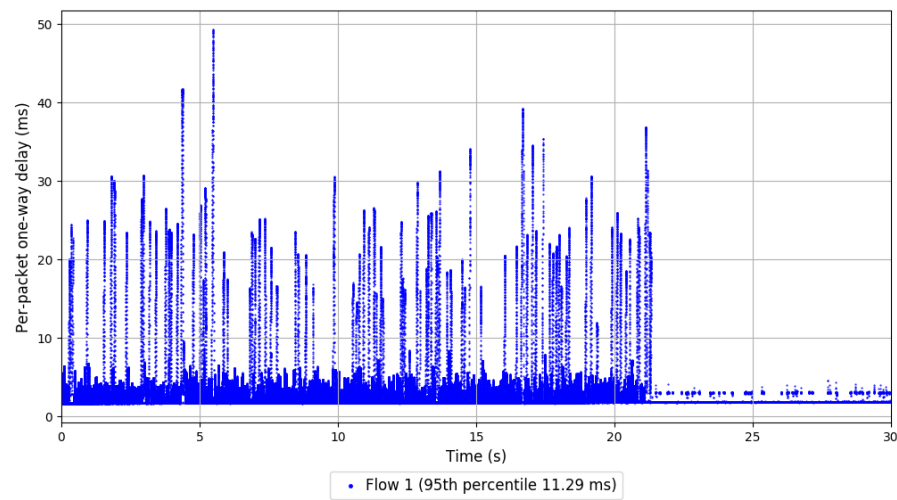
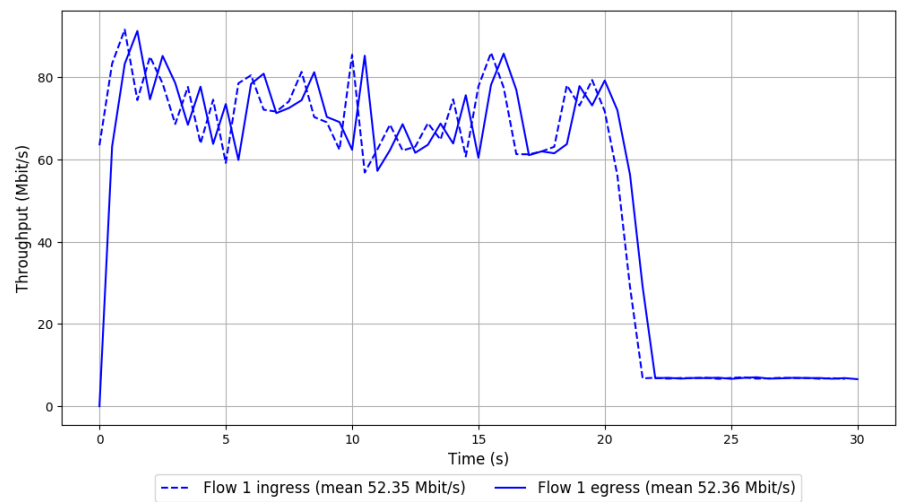


Run 8: Statistics of Copa

Start at: 2018-05-22 12:03:33  
End at: 2018-05-22 12:04:03  
Local clock offset: -4.585 ms  
Remote clock offset: -0.555 ms

# Below is generated by plot.py at 2018-05-22 12:51:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 52.36 Mbit/s  
95th percentile per-packet one-way delay: 11.292 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 52.36 Mbit/s  
95th percentile per-packet one-way delay: 11.292 ms  
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

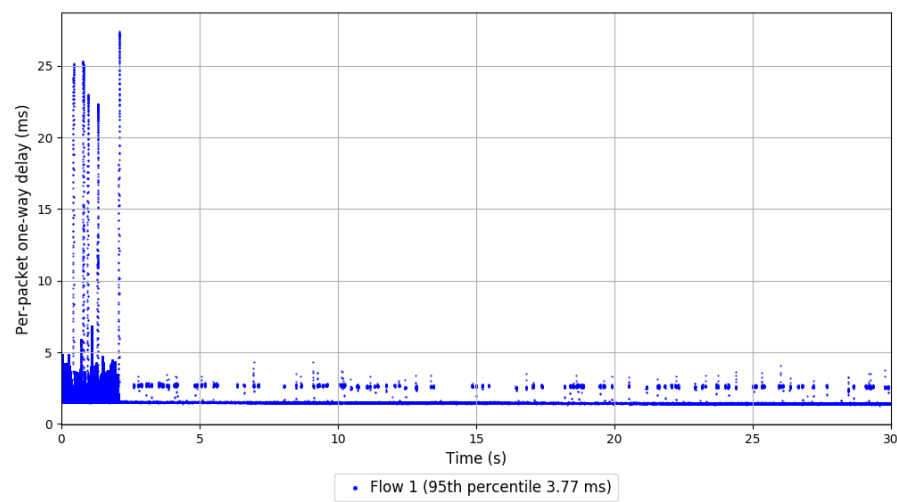
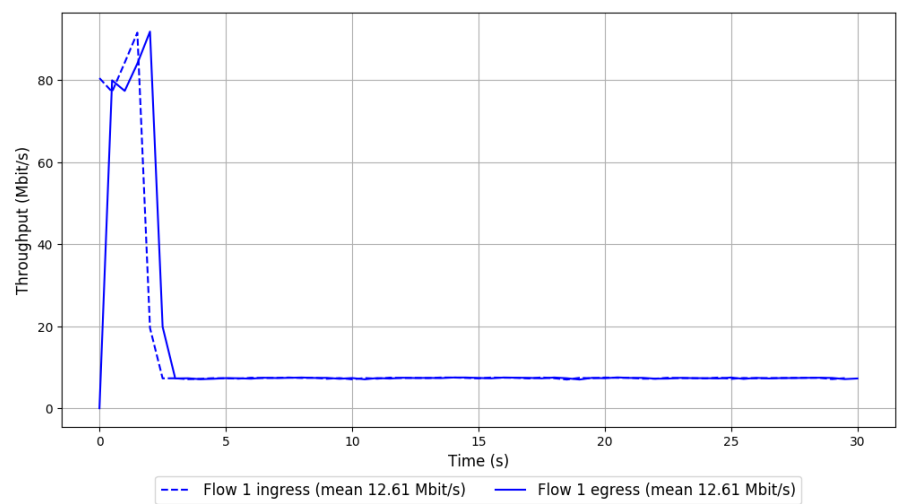


Run 9: Statistics of Copa

Start at: 2018-05-22 12:21:09  
End at: 2018-05-22 12:21:39  
Local clock offset: -7.25 ms  
Remote clock offset: -3.846 ms

# Below is generated by plot.py at 2018-05-22 12:51:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.61 Mbit/s  
95th percentile per-packet one-way delay: 3.769 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 12.61 Mbit/s  
95th percentile per-packet one-way delay: 3.769 ms  
Loss rate: 0.01%

Run 9: Report of Copa — Data Link

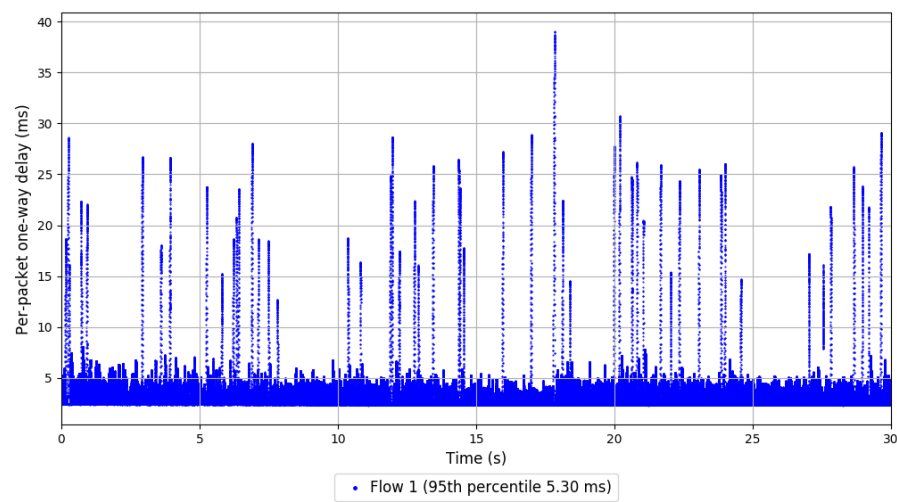
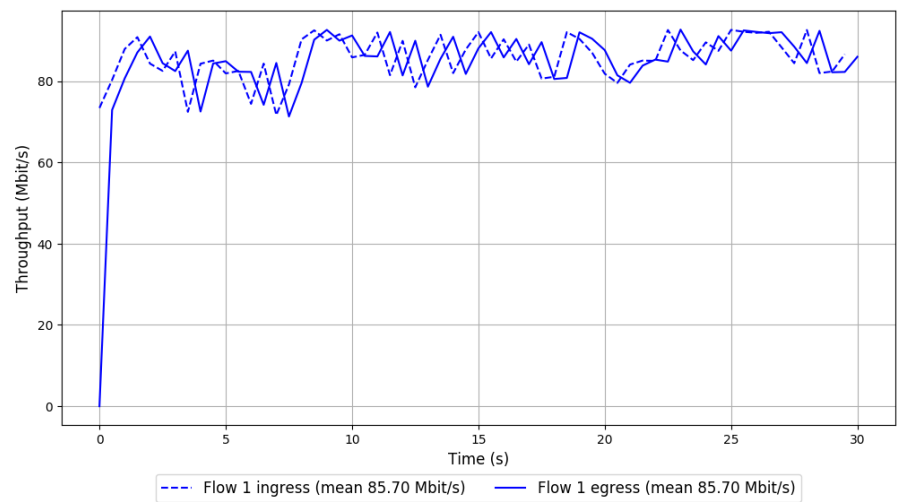


Run 10: Statistics of Copa

Start at: 2018-05-22 12:38:44  
End at: 2018-05-22 12:39:14  
Local clock offset: -6.199 ms  
Remote clock offset: -6.876 ms

# Below is generated by plot.py at 2018-05-22 12:51:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.70 Mbit/s  
95th percentile per-packet one-way delay: 5.301 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 85.70 Mbit/s  
95th percentile per-packet one-way delay: 5.301 ms  
Loss rate: 0.02%

Run 10: Report of Copa — Data Link

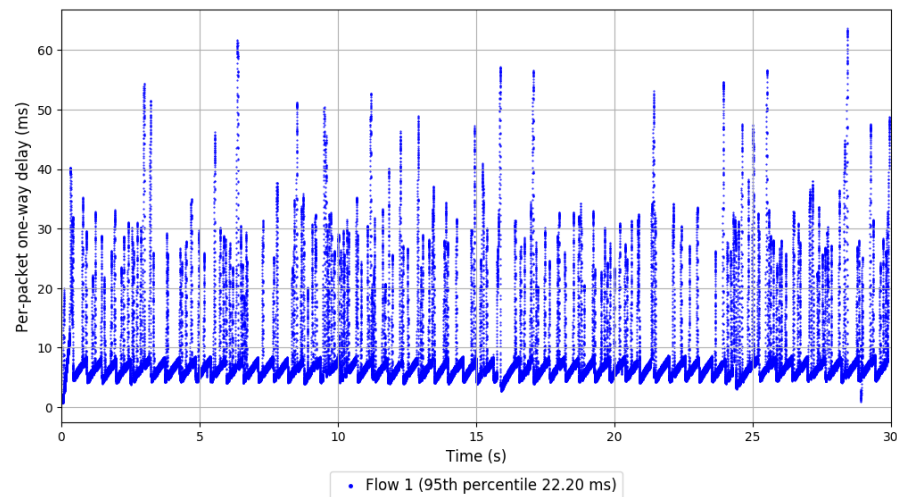
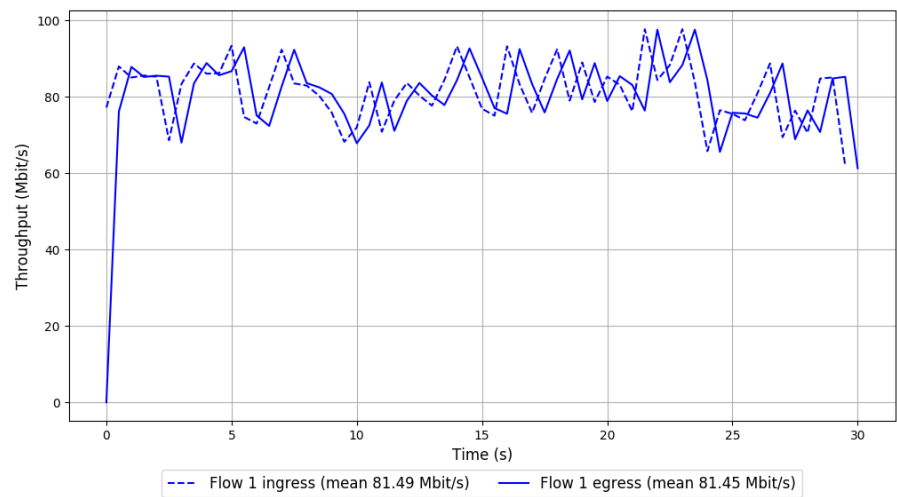


Run 1: Statistics of TCP Cubic

Start at: 2018-05-22 10:08:16  
End at: 2018-05-22 10:08:46  
Local clock offset: -4.935 ms  
Remote clock offset: -3.376 ms

# Below is generated by plot.py at 2018-05-22 12:51:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.45 Mbit/s  
95th percentile per-packet one-way delay: 22.195 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 81.45 Mbit/s  
95th percentile per-packet one-way delay: 22.195 ms  
Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link

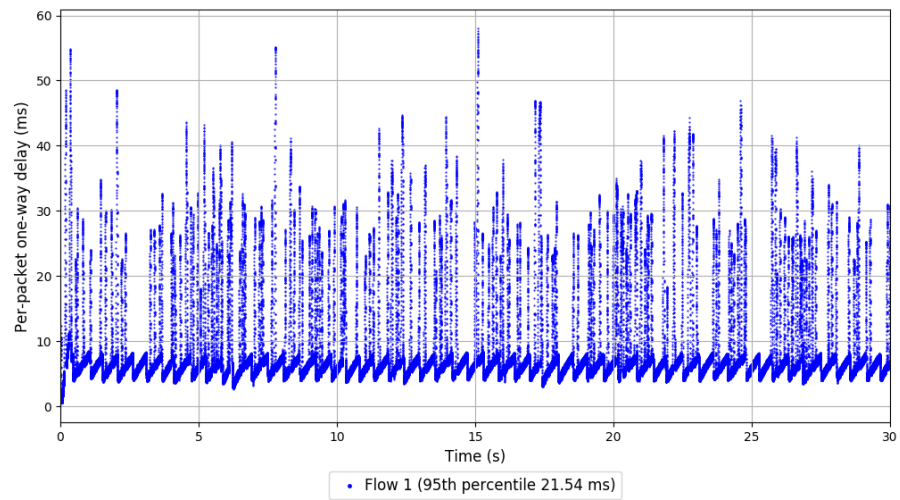
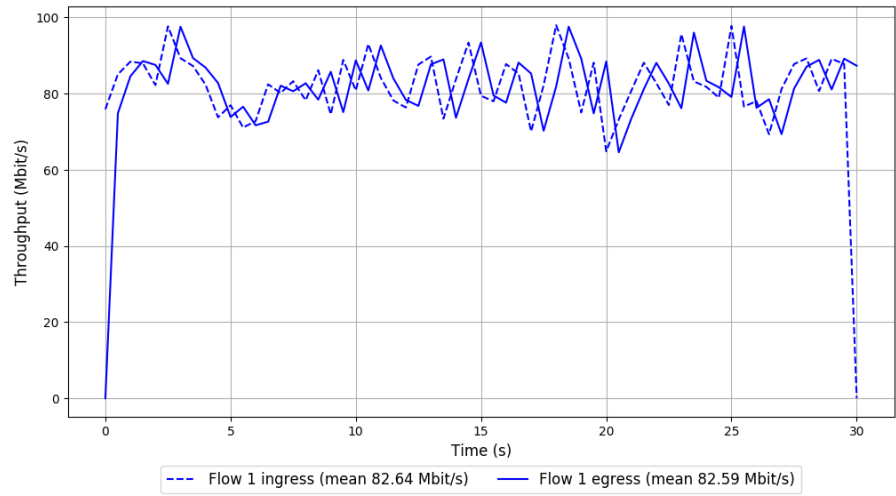


Run 2: Statistics of TCP Cubic

Start at: 2018-05-22 10:25:44  
End at: 2018-05-22 10:26:14  
Local clock offset: -6.843 ms  
Remote clock offset: -0.936 ms

# Below is generated by plot.py at 2018-05-22 12:51:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.59 Mbit/s  
95th percentile per-packet one-way delay: 21.537 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 82.59 Mbit/s  
95th percentile per-packet one-way delay: 21.537 ms  
Loss rate: 0.06%

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

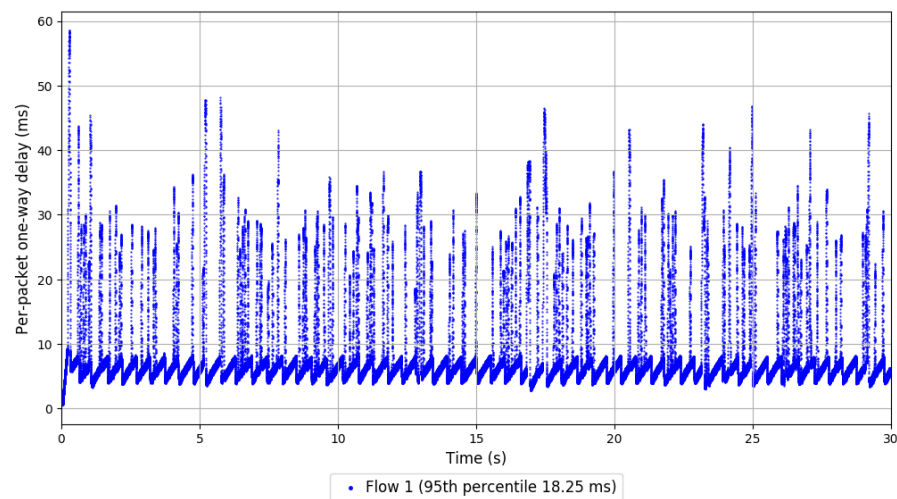
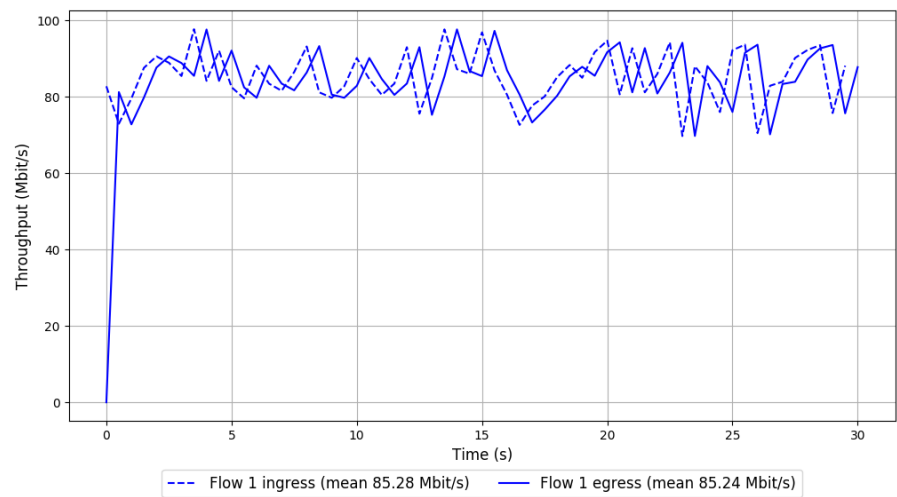


Run 3: Statistics of TCP Cubic

Start at: 2018-05-22 10:43:13  
End at: 2018-05-22 10:43:43  
Local clock offset: -6.175 ms  
Remote clock offset: -5.959 ms

# Below is generated by plot.py at 2018-05-22 12:51:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.24 Mbit/s  
95th percentile per-packet one-way delay: 18.253 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 85.24 Mbit/s  
95th percentile per-packet one-way delay: 18.253 ms  
Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link

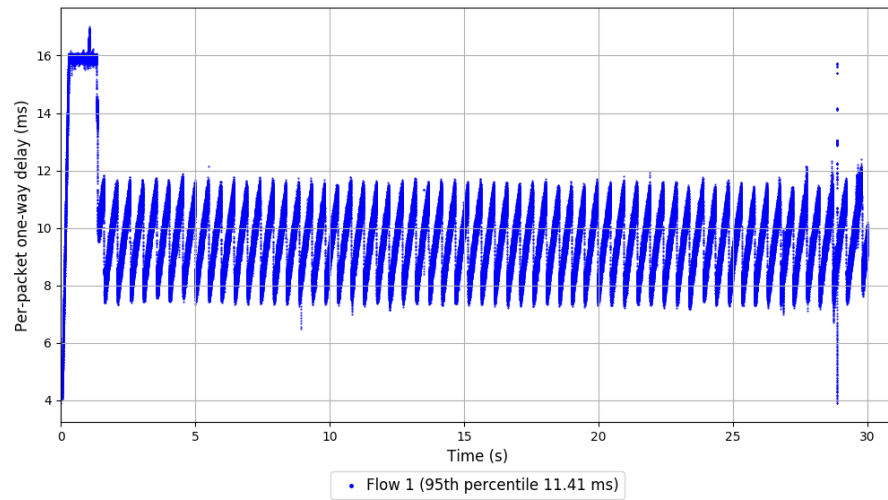
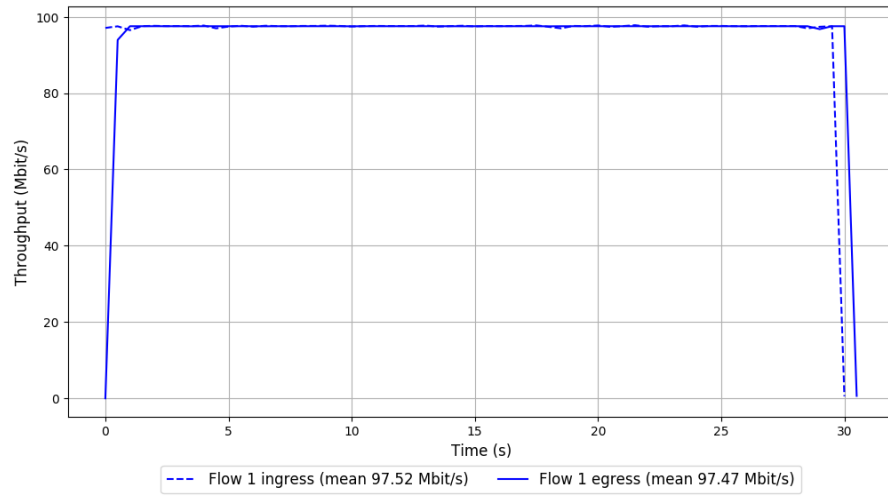


Run 4: Statistics of TCP Cubic

Start at: 2018-05-22 11:00:46  
End at: 2018-05-22 11:01:16  
Local clock offset: -0.98 ms  
Remote clock offset: -8.057 ms

# Below is generated by plot.py at 2018-05-22 12:51:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 11.410 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 11.410 ms  
Loss rate: 0.06%

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

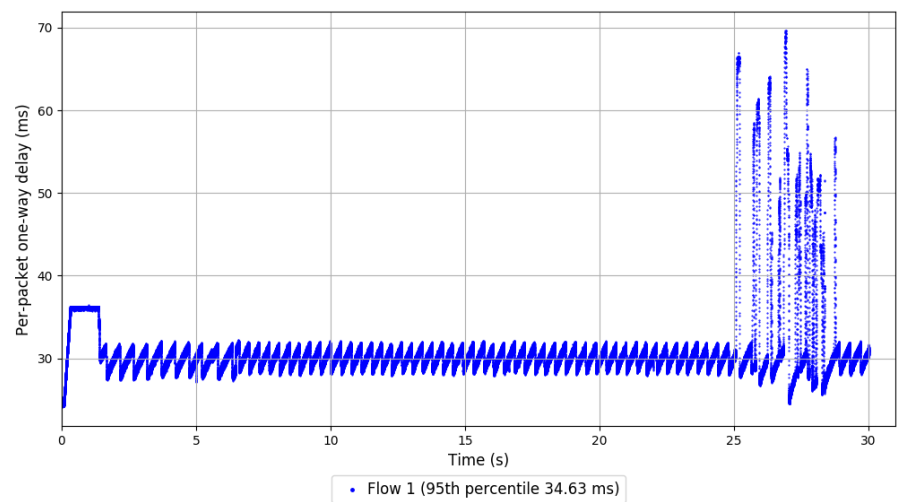
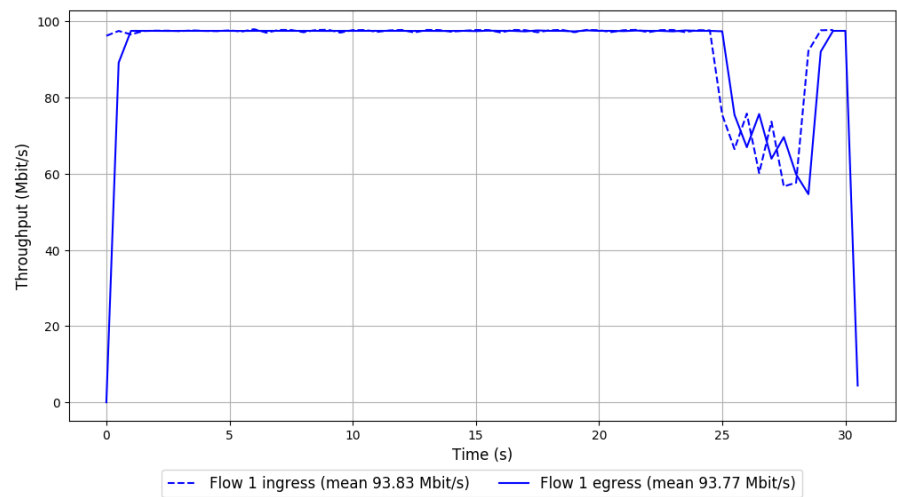


Run 5: Statistics of TCP Cubic

Start at: 2018-05-22 11:18:33  
End at: 2018-05-22 11:19:03  
Local clock offset: 21.533 ms  
Remote clock offset: -7.089 ms

# Below is generated by plot.py at 2018-05-22 12:51:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.77 Mbit/s  
95th percentile per-packet one-way delay: 34.628 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 93.77 Mbit/s  
95th percentile per-packet one-way delay: 34.628 ms  
Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link

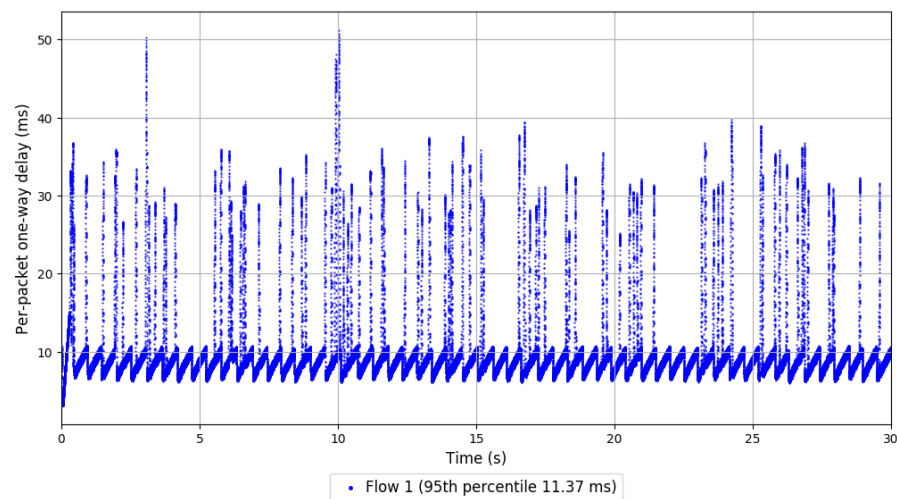
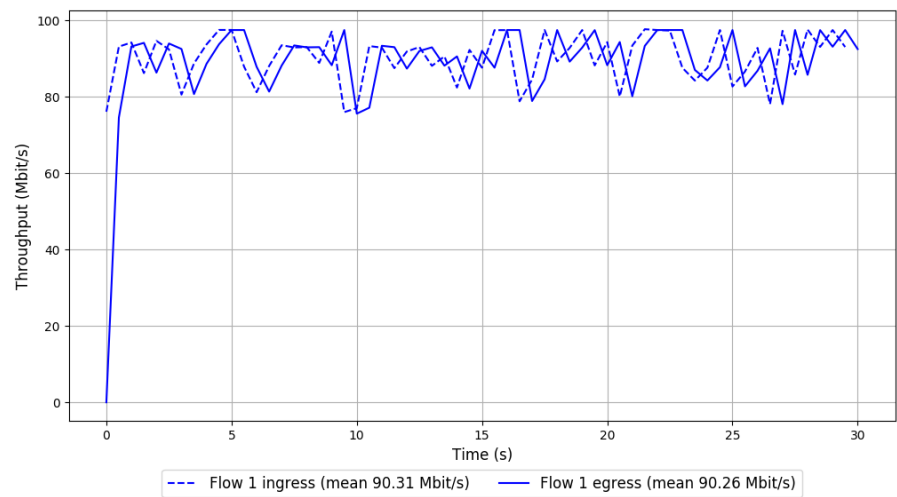


Run 6: Statistics of TCP Cubic

Start at: 2018-05-22 11:36:10  
End at: 2018-05-22 11:36:40  
Local clock offset: -0.406 ms  
Remote clock offset: -6.842 ms

# Below is generated by plot.py at 2018-05-22 12:51:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.26 Mbit/s  
95th percentile per-packet one-way delay: 11.368 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 90.26 Mbit/s  
95th percentile per-packet one-way delay: 11.368 ms  
Loss rate: 0.06%

Run 6: Report of TCP Cubic — Data Link

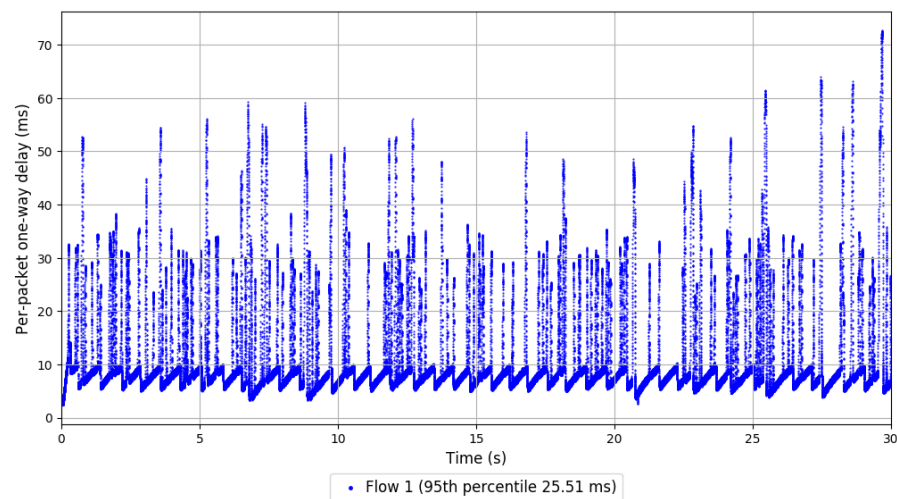
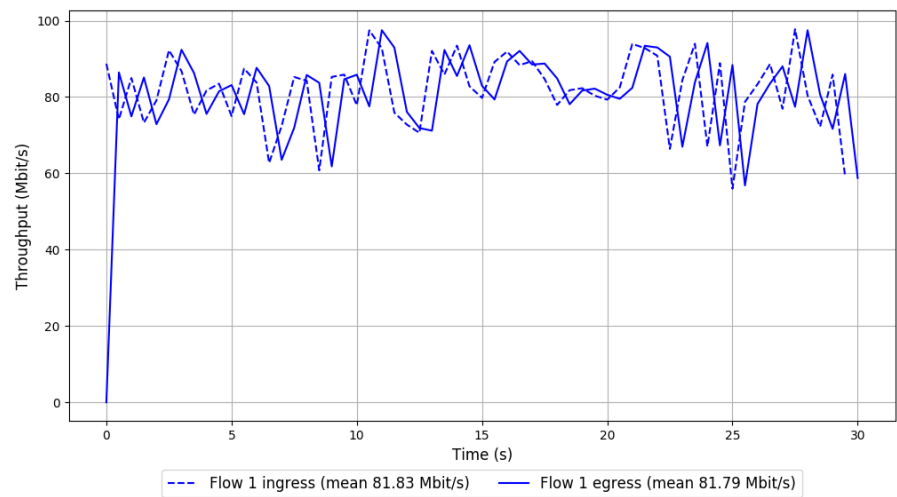


Run 7: Statistics of TCP Cubic

Start at: 2018-05-22 11:53:41  
End at: 2018-05-22 11:54:11  
Local clock offset: -0.63 ms  
Remote clock offset: -1.926 ms

# Below is generated by plot.py at 2018-05-22 12:51:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.79 Mbit/s  
95th percentile per-packet one-way delay: 25.514 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 81.79 Mbit/s  
95th percentile per-packet one-way delay: 25.514 ms  
Loss rate: 0.06%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 12:11:20

End at: 2018-05-22 12:11:50

Local clock offset: -6.229 ms

Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2018-05-22 12:52:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 20.777 ms

Loss rate: 0.06%

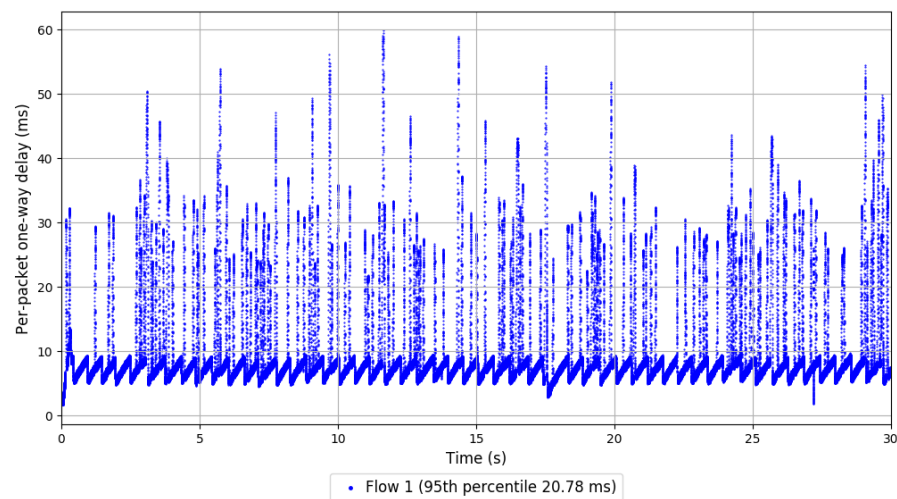
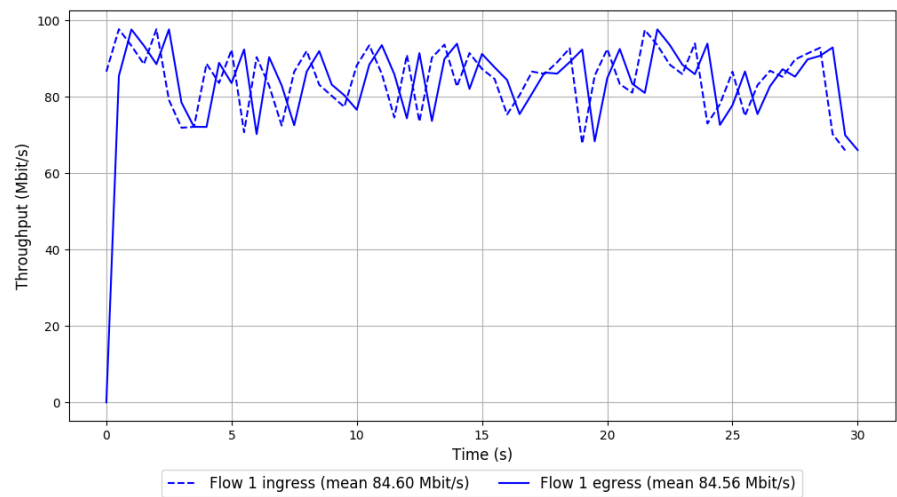
-- Flow 1:

Average throughput: 84.56 Mbit/s

95th percentile per-packet one-way delay: 20.777 ms

Loss rate: 0.06%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 12:28:54

End at: 2018-05-22 12:29:24

Local clock offset: -5.804 ms

Remote clock offset: -5.69 ms

# Below is generated by plot.py at 2018-05-22 12:52:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 14.603 ms

Loss rate: 0.05%

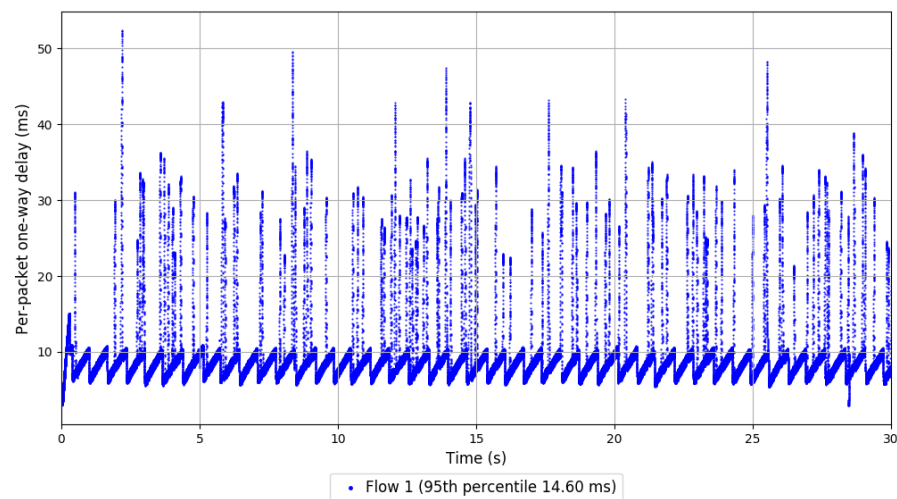
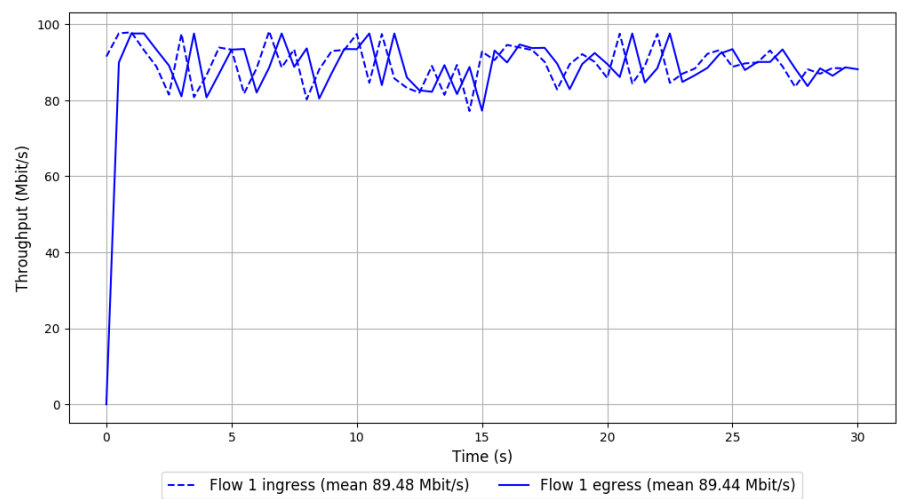
-- Flow 1:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 14.603 ms

Loss rate: 0.05%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 12:46:36

End at: 2018-05-22 12:47:06

Local clock offset: -6.215 ms

Remote clock offset: -7.379 ms

# Below is generated by plot.py at 2018-05-22 12:52:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 9.603 ms

Loss rate: 0.06%

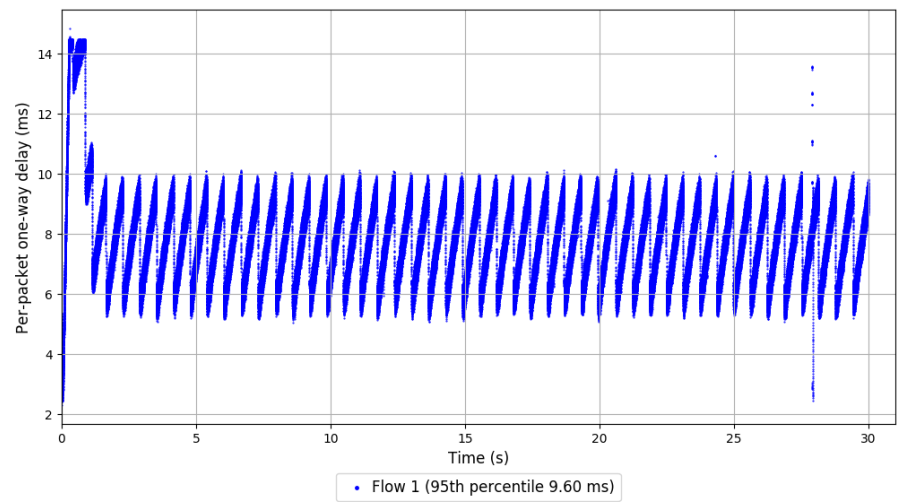
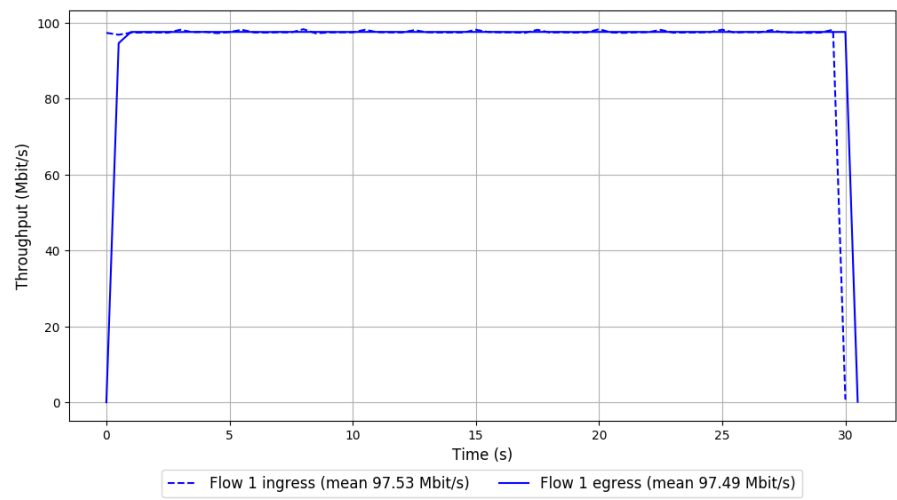
-- Flow 1:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 9.603 ms

Loss rate: 0.06%

Run 10: Report of TCP Cubic — Data Link

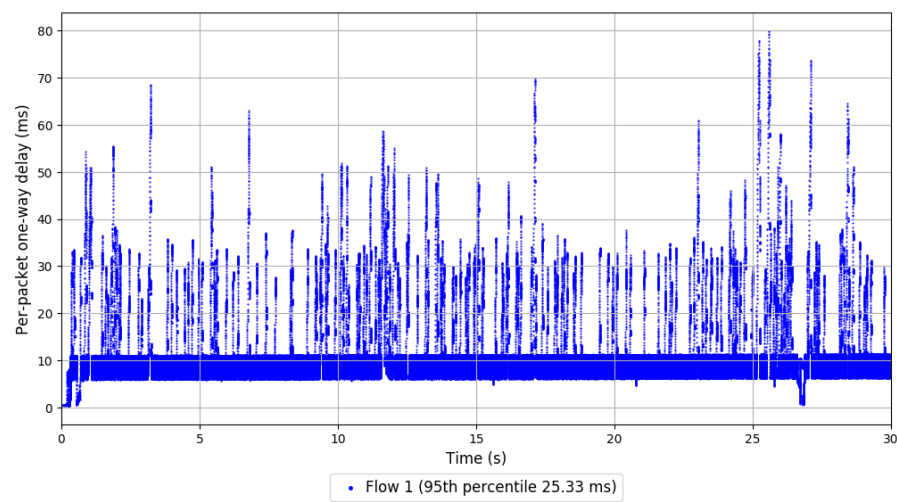
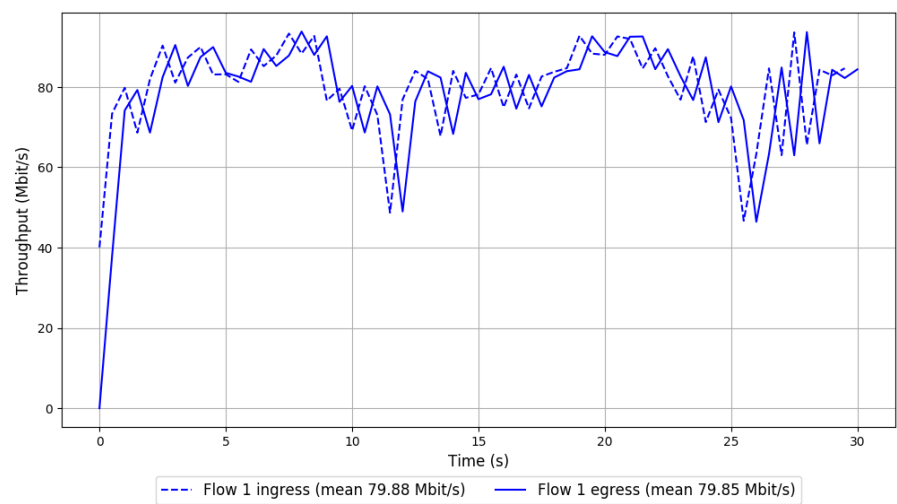


Run 1: Statistics of FillP

Start at: 2018-05-22 09:56:10  
End at: 2018-05-22 09:56:40  
Local clock offset: -0.21 ms  
Remote clock offset: -8.756 ms

# Below is generated by plot.py at 2018-05-22 12:52:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.85 Mbit/s  
95th percentile per-packet one-way delay: 25.326 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 79.85 Mbit/s  
95th percentile per-packet one-way delay: 25.326 ms  
Loss rate: 0.06%

Run 1: Report of FillP — Data Link

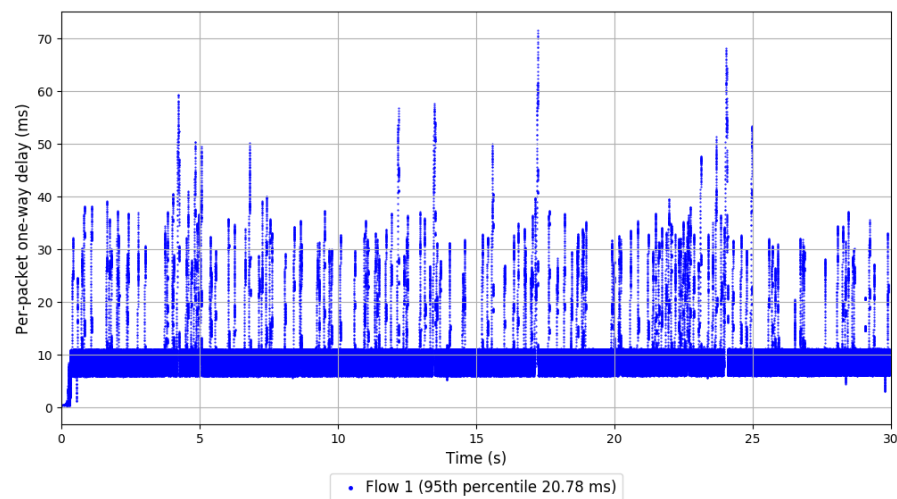
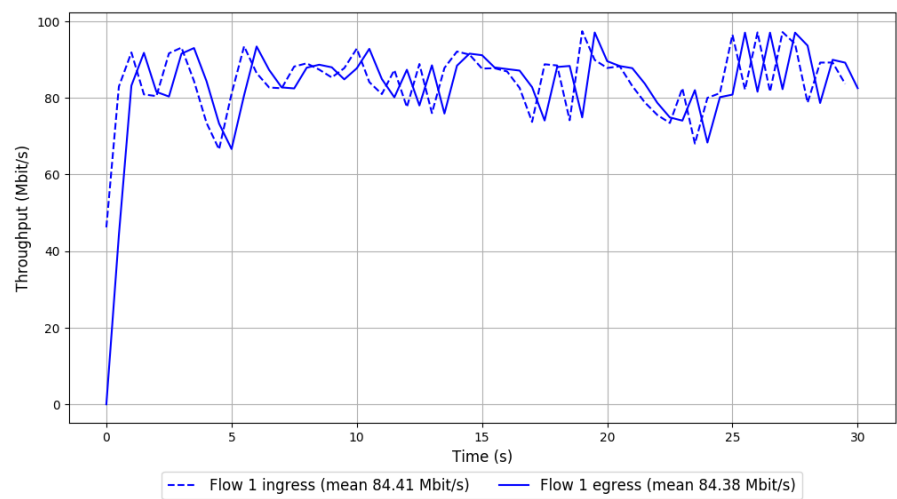


Run 2: Statistics of FillP

Start at: 2018-05-22 10:13:39  
End at: 2018-05-22 10:14:09  
Local clock offset: -5.855 ms  
Remote clock offset: -2.186 ms

# Below is generated by plot.py at 2018-05-22 12:52:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.38 Mbit/s  
95th percentile per-packet one-way delay: 20.779 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 84.38 Mbit/s  
95th percentile per-packet one-way delay: 20.779 ms  
Loss rate: 0.05%

Run 2: Report of FillP — Data Link

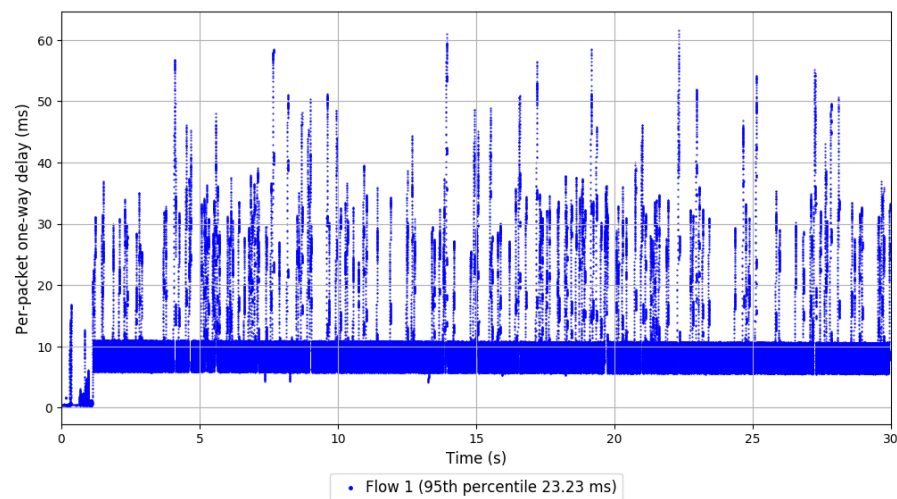
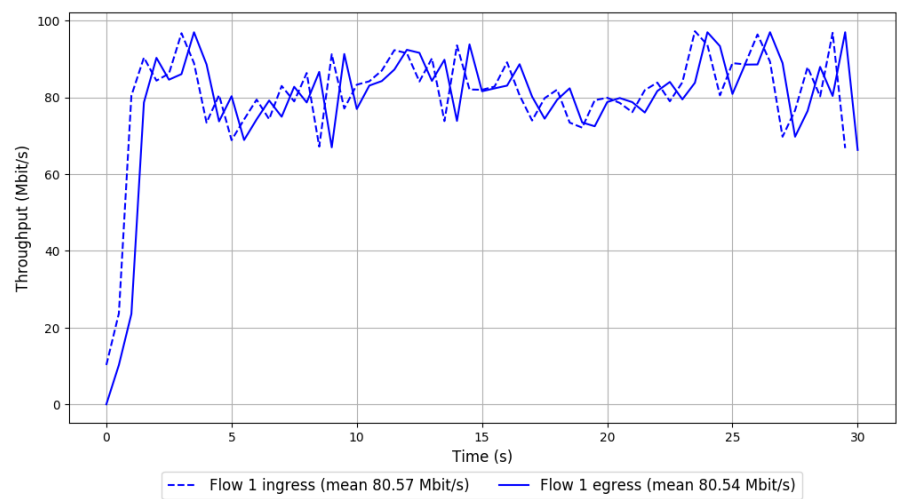


Run 3: Statistics of FillP

Start at: 2018-05-22 10:31:06  
End at: 2018-05-22 10:31:37  
Local clock offset: -6.546 ms  
Remote clock offset: -0.659 ms

# Below is generated by plot.py at 2018-05-22 12:53:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.54 Mbit/s  
95th percentile per-packet one-way delay: 23.227 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 80.54 Mbit/s  
95th percentile per-packet one-way delay: 23.227 ms  
Loss rate: 0.05%

Run 3: Report of FillP — Data Link

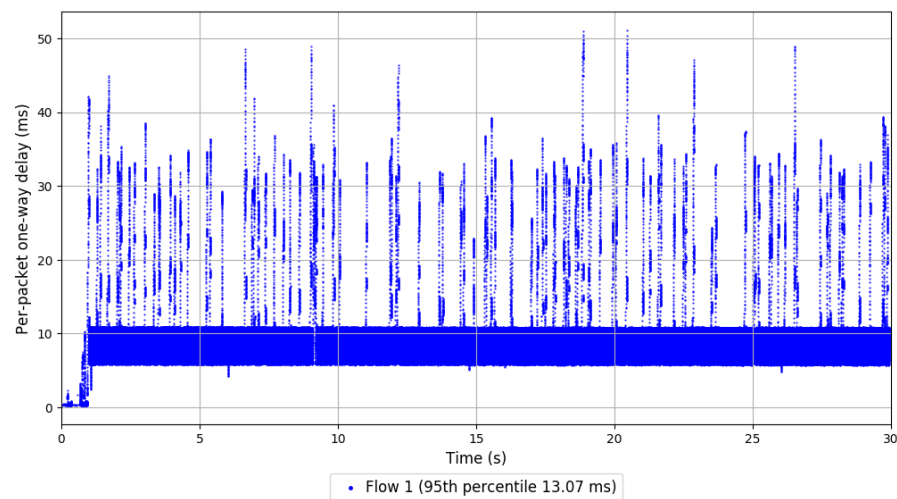
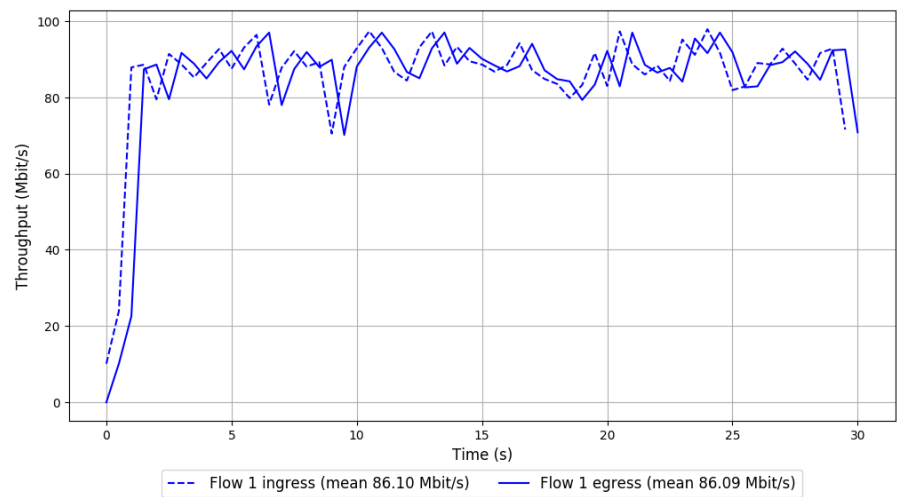


Run 4: Statistics of FillP

Start at: 2018-05-22 10:48:36  
End at: 2018-05-22 10:49:06  
Local clock offset: -6.367 ms  
Remote clock offset: -6.849 ms

# Below is generated by plot.py at 2018-05-22 12:53:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.09 Mbit/s  
95th percentile per-packet one-way delay: 13.068 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 86.09 Mbit/s  
95th percentile per-packet one-way delay: 13.068 ms  
Loss rate: 0.04%

Run 4: Report of FillP — Data Link

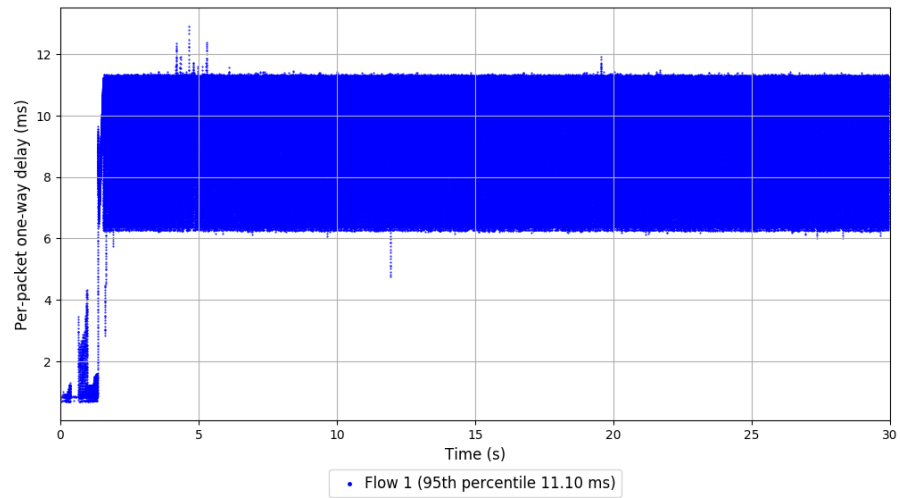
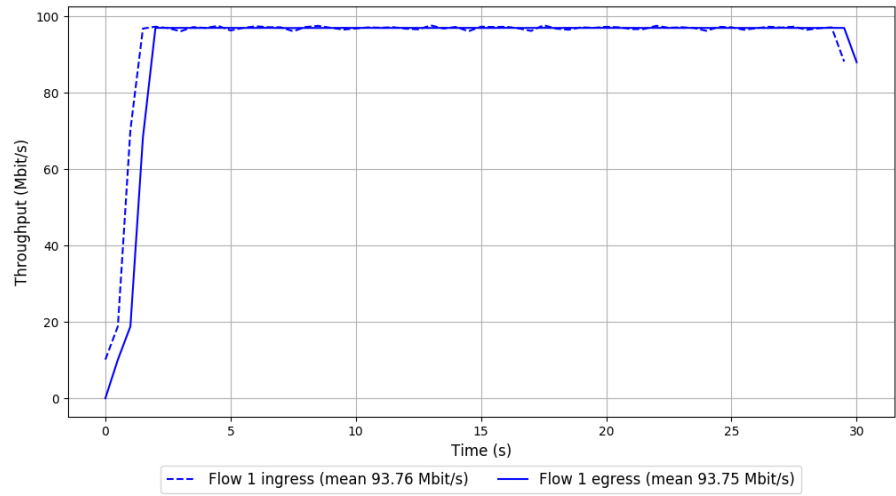


Run 5: Statistics of FillP

Start at: 2018-05-22 11:06:11  
End at: 2018-05-22 11:06:41  
Local clock offset: -3.198 ms  
Remote clock offset: -8.201 ms

# Below is generated by plot.py at 2018-05-22 12:53:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.75 Mbit/s  
95th percentile per-packet one-way delay: 11.102 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 93.75 Mbit/s  
95th percentile per-packet one-way delay: 11.102 ms  
Loss rate: 0.03%

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

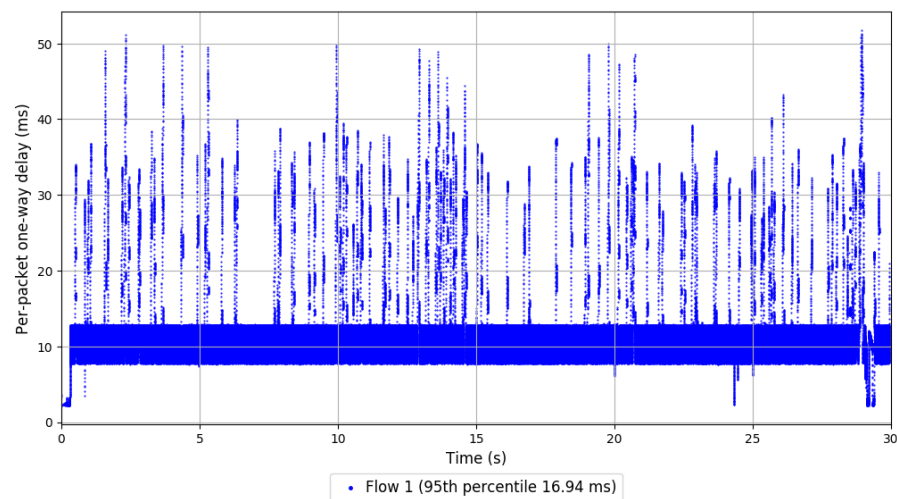
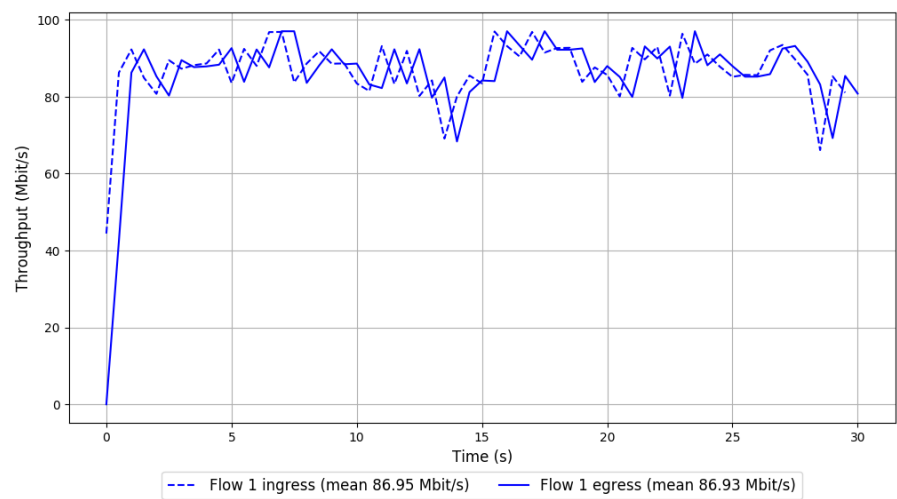


Run 6: Statistics of FillP

Start at: 2018-05-22 11:23:55  
End at: 2018-05-22 11:24:25  
Local clock offset: -1.467 ms  
Remote clock offset: -6.945 ms

# Below is generated by plot.py at 2018-05-22 12:53:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.93 Mbit/s  
95th percentile per-packet one-way delay: 16.937 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 86.93 Mbit/s  
95th percentile per-packet one-way delay: 16.937 ms  
Loss rate: 0.04%

Run 6: Report of FillP — Data Link

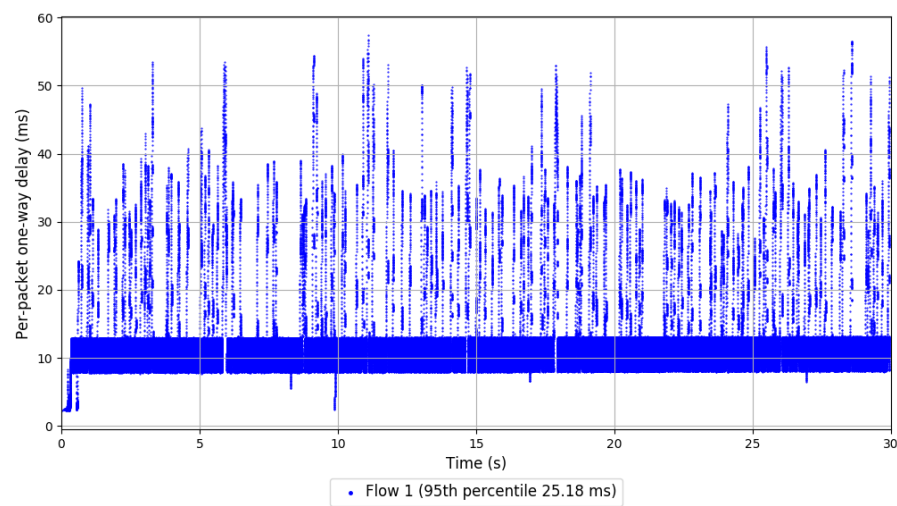
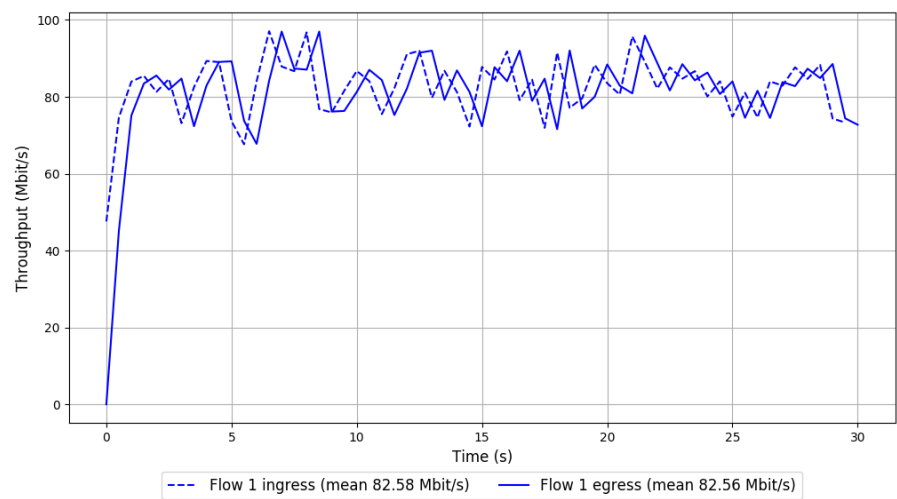


Run 7: Statistics of FillP

Start at: 2018-05-22 11:41:33  
End at: 2018-05-22 11:42:03  
Local clock offset: -1.019 ms  
Remote clock offset: -5.527 ms

# Below is generated by plot.py at 2018-05-22 12:53:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.56 Mbit/s  
95th percentile per-packet one-way delay: 25.182 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 82.56 Mbit/s  
95th percentile per-packet one-way delay: 25.182 ms  
Loss rate: 0.05%

Run 7: Report of FillP — Data Link

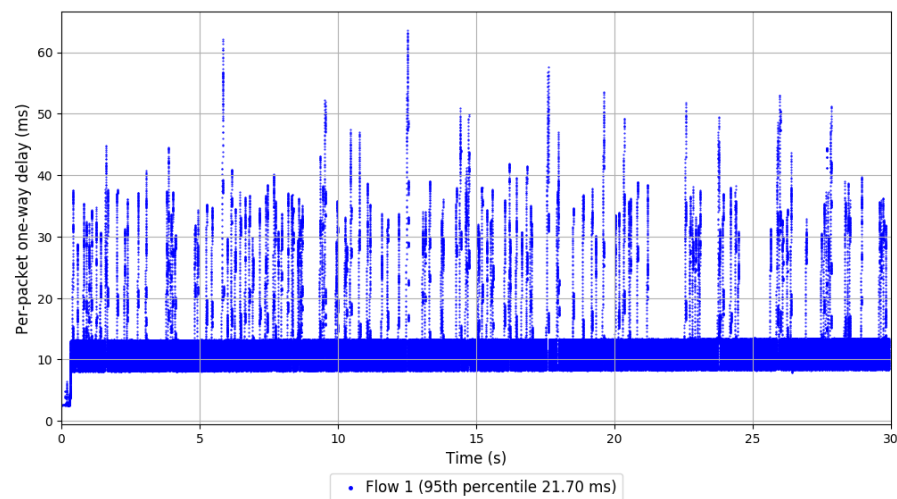
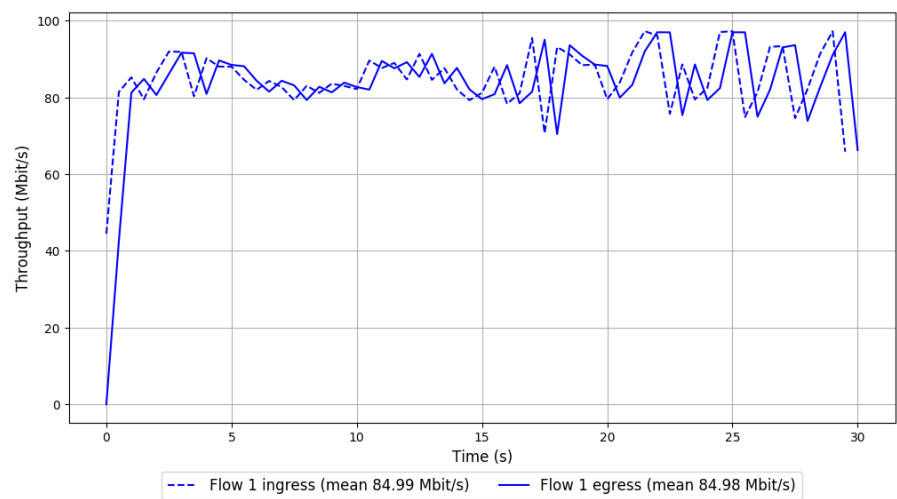


Run 8: Statistics of FillP

Start at: 2018-05-22 11:59:07  
End at: 2018-05-22 11:59:37  
Local clock offset: -2.04 ms  
Remote clock offset: -1.129 ms

# Below is generated by plot.py at 2018-05-22 12:53:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.98 Mbit/s  
95th percentile per-packet one-way delay: 21.700 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 84.98 Mbit/s  
95th percentile per-packet one-way delay: 21.700 ms  
Loss rate: 0.04%

Run 8: Report of FillP — Data Link

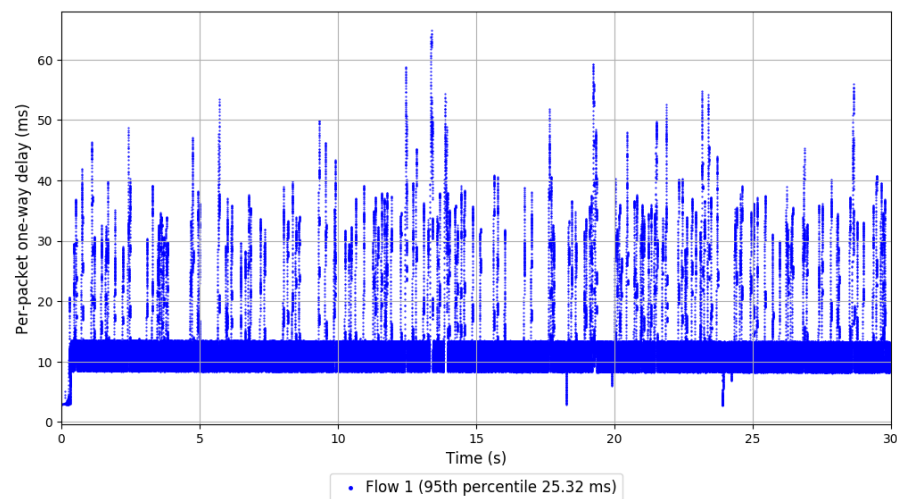
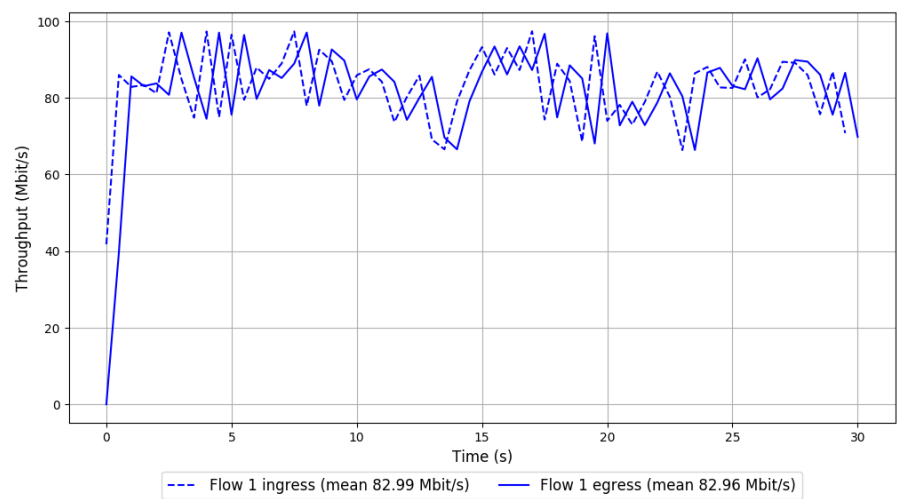


Run 9: Statistics of FillP

Start at: 2018-05-22 12:16:43  
End at: 2018-05-22 12:17:13  
Local clock offset: -5.333 ms  
Remote clock offset: -1.845 ms

# Below is generated by plot.py at 2018-05-22 12:53:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.96 Mbit/s  
95th percentile per-packet one-way delay: 25.318 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 82.96 Mbit/s  
95th percentile per-packet one-way delay: 25.318 ms  
Loss rate: 0.06%

Run 9: Report of FillP — Data Link

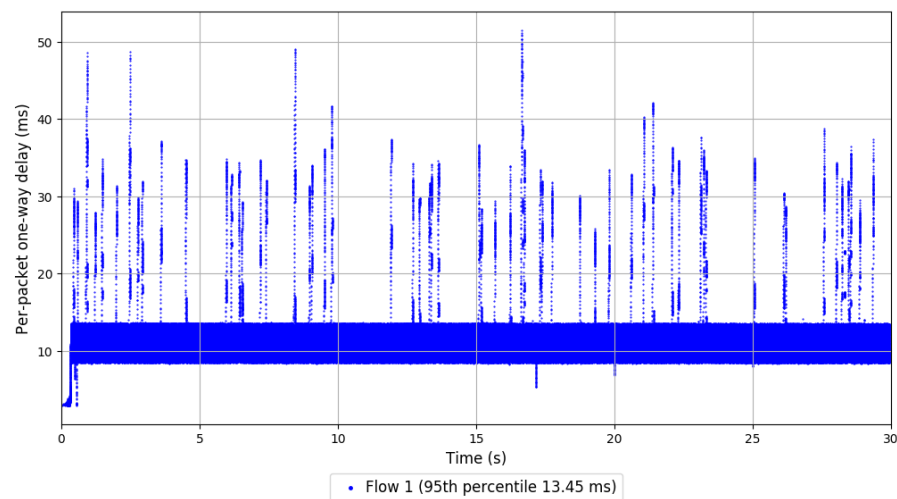
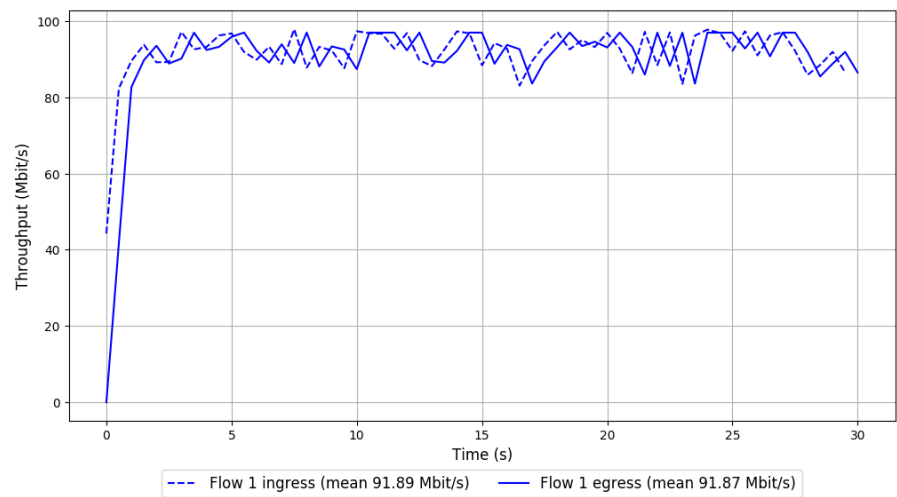


Run 10: Statistics of FillP

Start at: 2018-05-22 12:34:17  
End at: 2018-05-22 12:34:47  
Local clock offset: -5.517 ms  
Remote clock offset: -6.427 ms

# Below is generated by plot.py at 2018-05-22 12:54:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.87 Mbit/s  
95th percentile per-packet one-way delay: 13.453 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 91.87 Mbit/s  
95th percentile per-packet one-way delay: 13.453 ms  
Loss rate: 0.04%

Run 10: Report of FillP — Data Link

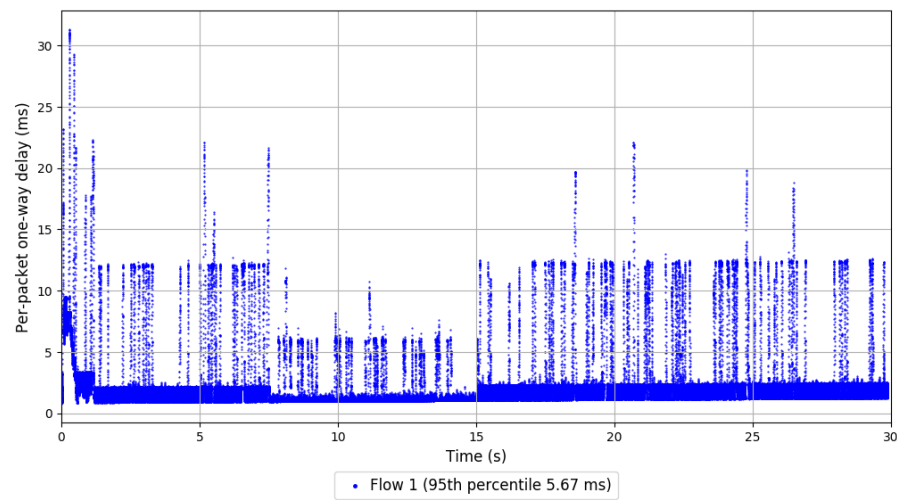
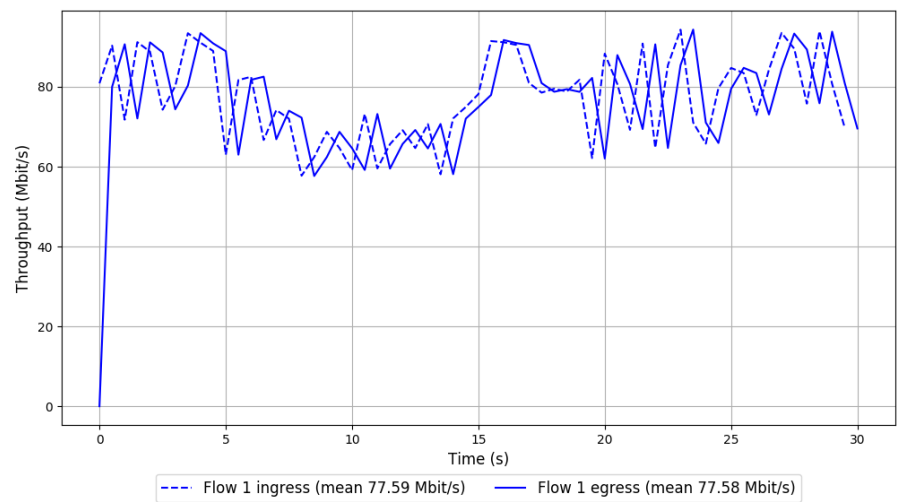


Run 1: Statistics of Indigo

Start at: 2018-05-22 10:02:45  
End at: 2018-05-22 10:03:15  
Local clock offset: -3.411 ms  
Remote clock offset: -5.273 ms

# Below is generated by plot.py at 2018-05-22 12:54:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.58 Mbit/s  
95th percentile per-packet one-way delay: 5.672 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 77.58 Mbit/s  
95th percentile per-packet one-way delay: 5.672 ms  
Loss rate: 0.01%

Run 1: Report of Indigo — Data Link

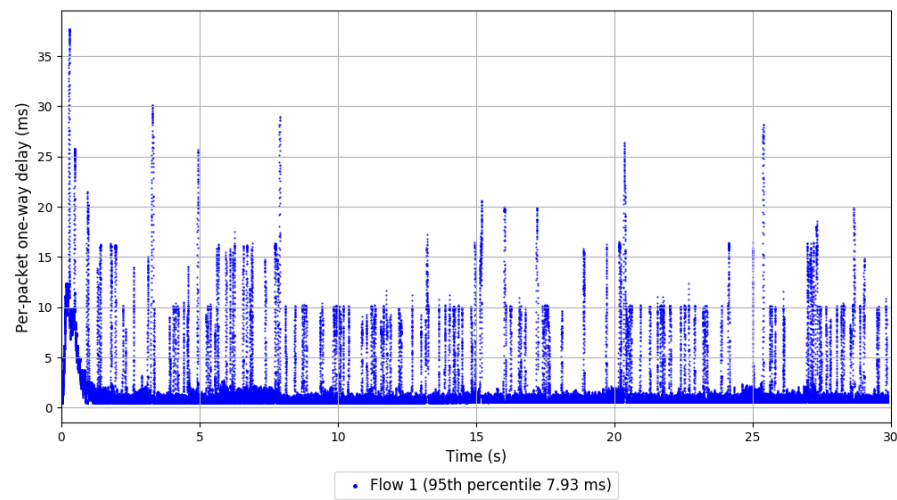
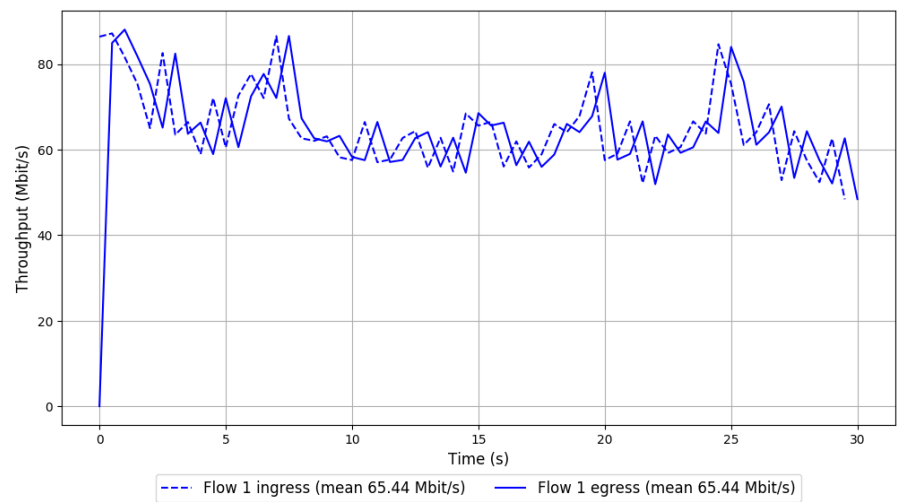


Run 2: Statistics of Indigo

Start at: 2018-05-22 10:20:13  
End at: 2018-05-22 10:20:43  
Local clock offset: -6.5 ms  
Remote clock offset: -1.392 ms

# Below is generated by plot.py at 2018-05-22 12:54:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 65.44 Mbit/s  
95th percentile per-packet one-way delay: 7.928 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 65.44 Mbit/s  
95th percentile per-packet one-way delay: 7.928 ms  
Loss rate: 0.01%

Run 2: Report of Indigo — Data Link

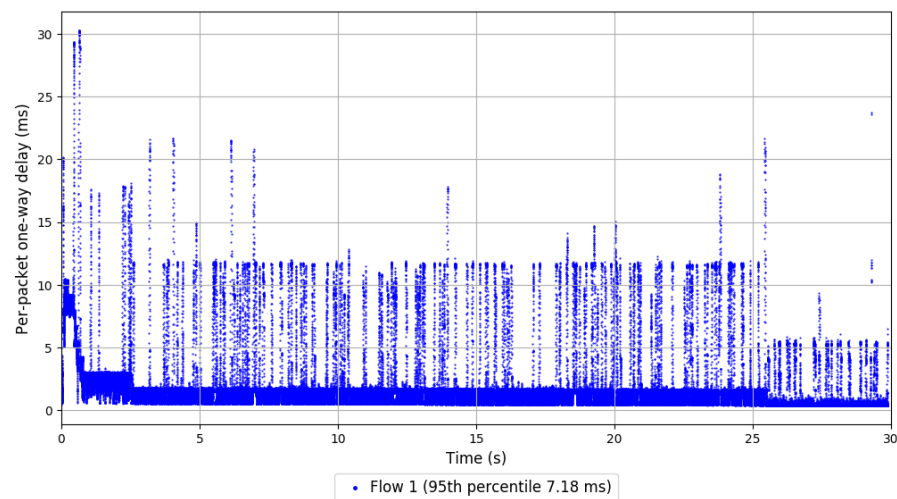
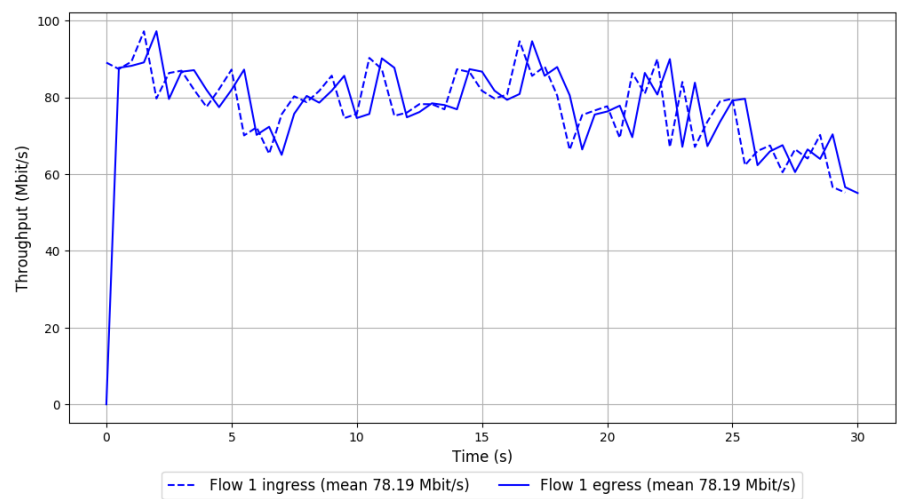


Run 3: Statistics of Indigo

Start at: 2018-05-22 10:37:42  
End at: 2018-05-22 10:38:12  
Local clock offset: -6.231 ms  
Remote clock offset: -4.351 ms

# Below is generated by plot.py at 2018-05-22 12:54:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.19 Mbit/s  
95th percentile per-packet one-way delay: 7.180 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 78.19 Mbit/s  
95th percentile per-packet one-way delay: 7.180 ms  
Loss rate: 0.01%

Run 3: Report of Indigo — Data Link

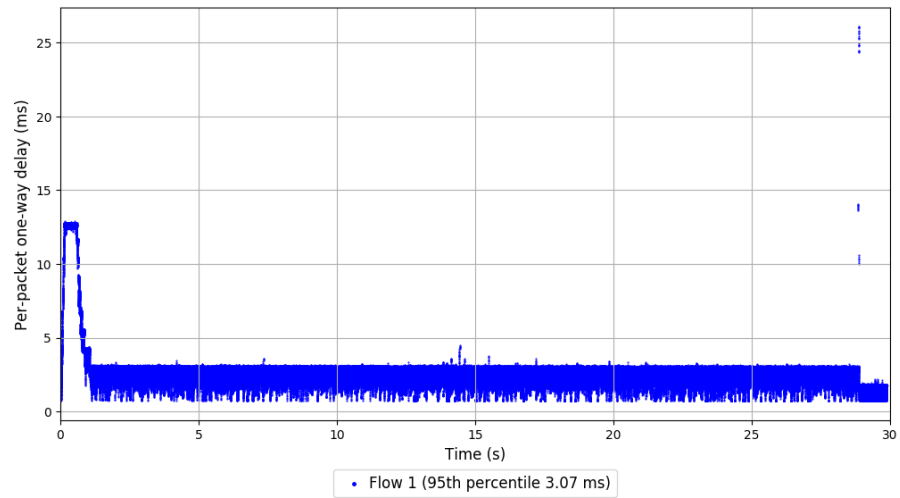
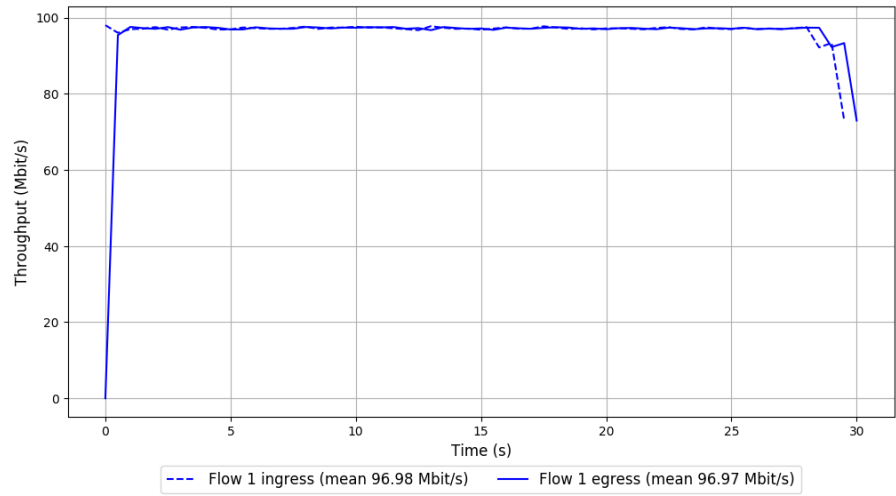


Run 4: Statistics of Indigo

Start at: 2018-05-22 10:55:13  
End at: 2018-05-22 10:55:43  
Local clock offset: -6.179 ms  
Remote clock offset: -7.573 ms

# Below is generated by plot.py at 2018-05-22 12:54:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.97 Mbit/s  
95th percentile per-packet one-way delay: 3.068 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.97 Mbit/s  
95th percentile per-packet one-way delay: 3.068 ms  
Loss rate: 0.01%

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

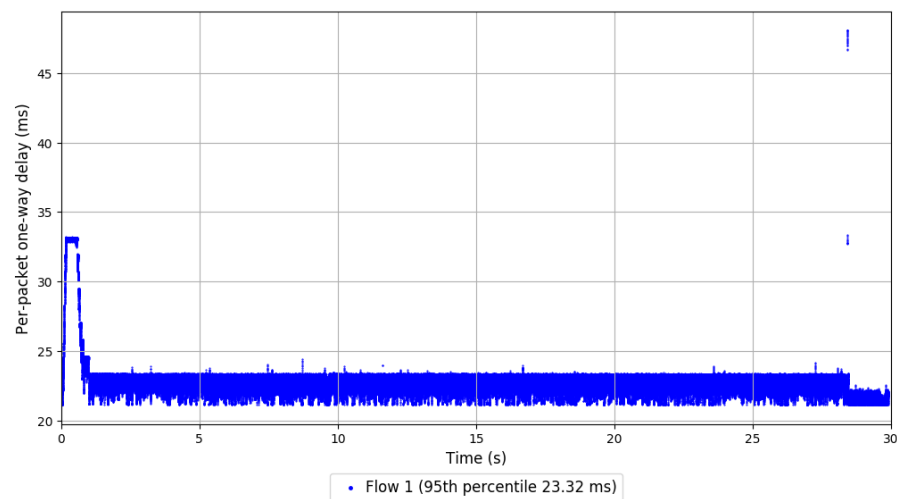
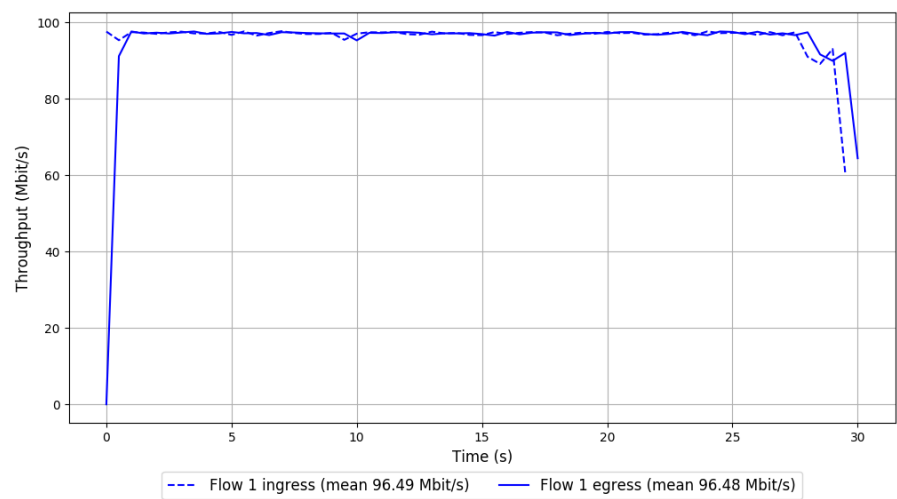


Run 5: Statistics of Indigo

Start at: 2018-05-22 11:12:54  
End at: 2018-05-22 11:13:25  
Local clock offset: 18.058 ms  
Remote clock offset: -7.433 ms

# Below is generated by plot.py at 2018-05-22 12:54:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.48 Mbit/s  
95th percentile per-packet one-way delay: 23.323 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.48 Mbit/s  
95th percentile per-packet one-way delay: 23.323 ms  
Loss rate: 0.01%

Run 5: Report of Indigo — Data Link

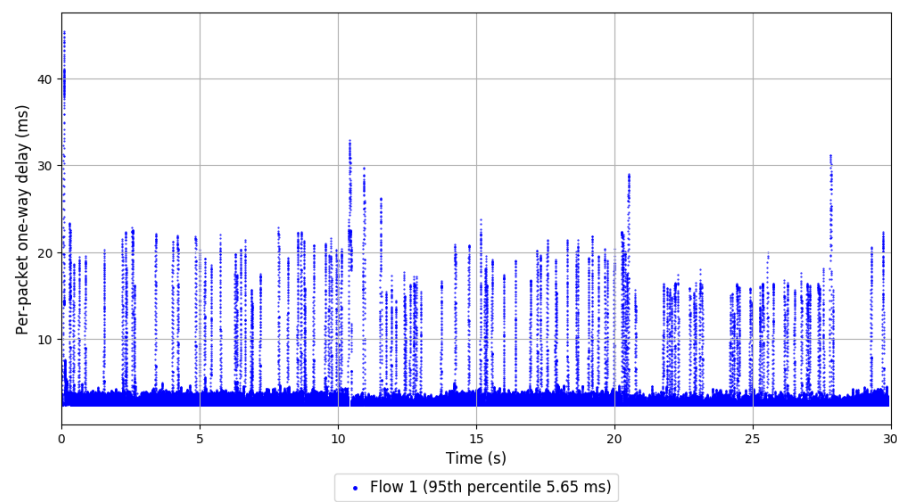
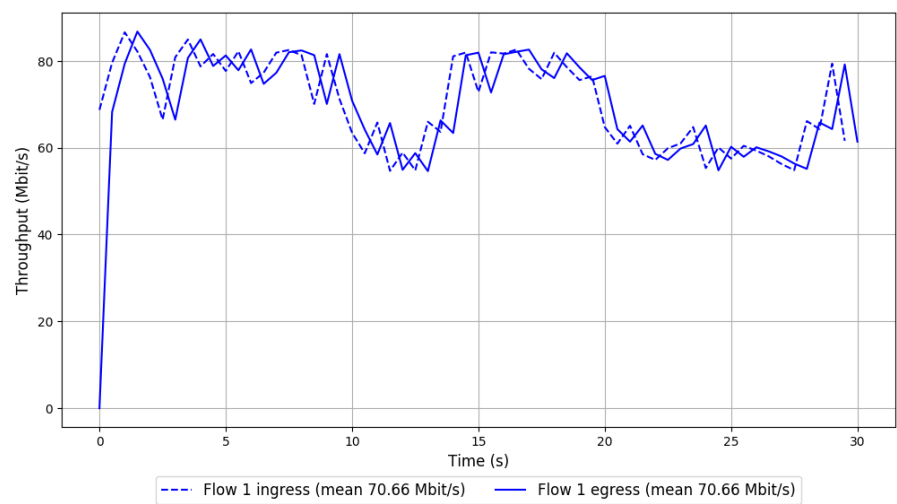


Run 6: Statistics of Indigo

Start at: 2018-05-22 11:30:39  
End at: 2018-05-22 11:31:09  
Local clock offset: -1.292 ms  
Remote clock offset: -6.943 ms

# Below is generated by plot.py at 2018-05-22 12:54:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.66 Mbit/s  
95th percentile per-packet one-way delay: 5.647 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 70.66 Mbit/s  
95th percentile per-packet one-way delay: 5.647 ms  
Loss rate: 0.02%

Run 6: Report of Indigo — Data Link

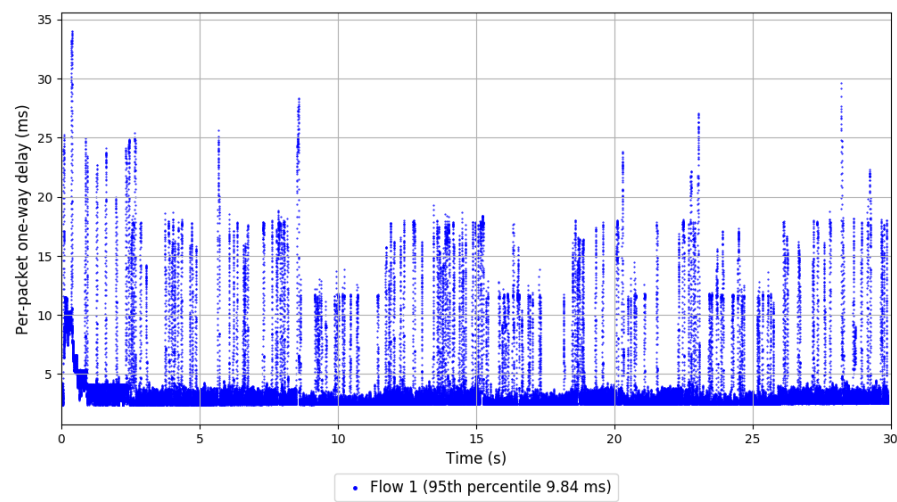
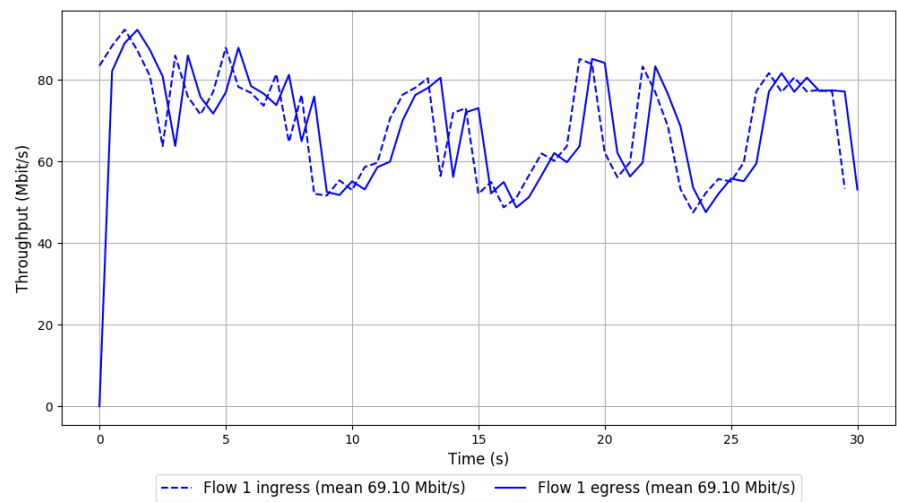


Run 7: Statistics of Indigo

Start at: 2018-05-22 11:48:10  
End at: 2018-05-22 11:48:40  
Local clock offset: -0.807 ms  
Remote clock offset: -3.098 ms

# Below is generated by plot.py at 2018-05-22 12:54:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.10 Mbit/s  
95th percentile per-packet one-way delay: 9.841 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 69.10 Mbit/s  
95th percentile per-packet one-way delay: 9.841 ms  
Loss rate: 0.02%

Run 7: Report of Indigo — Data Link

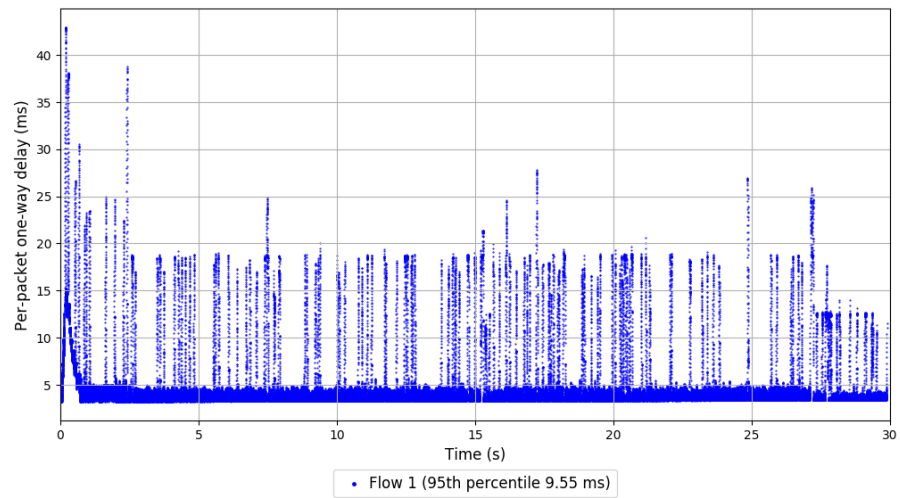
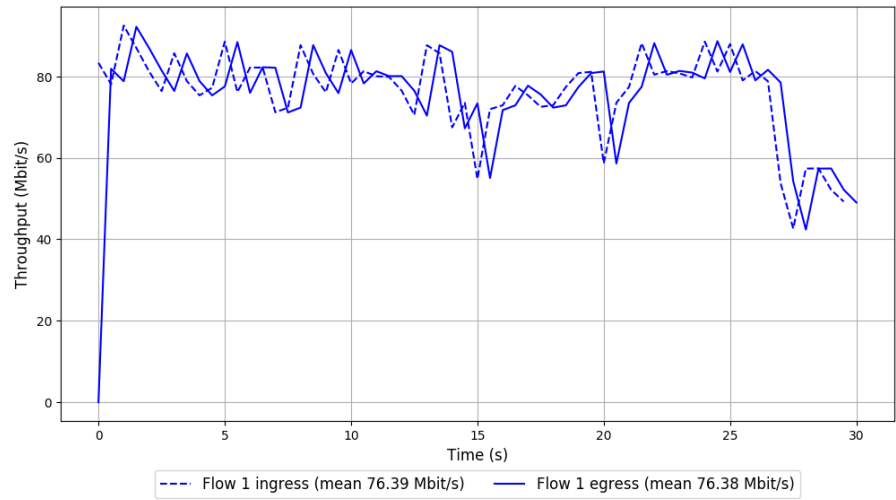


Run 8: Statistics of Indigo

Start at: 2018-05-22 12:05:49  
End at: 2018-05-22 12:06:19  
Local clock offset: -3.63 ms  
Remote clock offset: -0.362 ms

# Below is generated by plot.py at 2018-05-22 12:54:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.38 Mbit/s  
95th percentile per-packet one-way delay: 9.550 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 76.38 Mbit/s  
95th percentile per-packet one-way delay: 9.550 ms  
Loss rate: 0.02%

## Run 8: Report of Indigo — Data Link

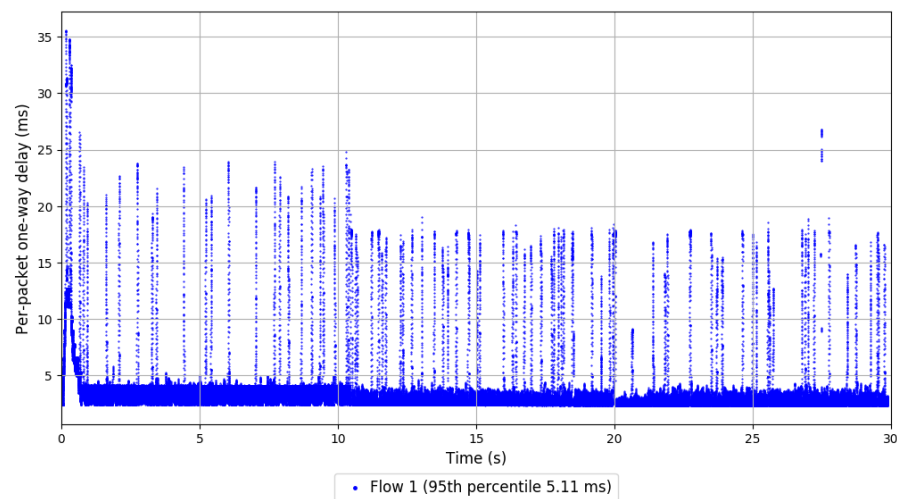
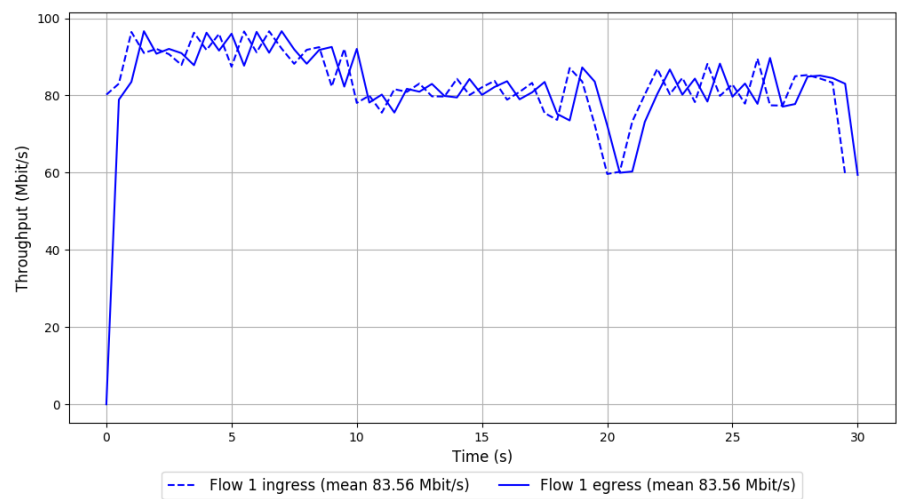


Run 9: Statistics of Indigo

Start at: 2018-05-22 12:23:22  
End at: 2018-05-22 12:23:52  
Local clock offset: -6.609 ms  
Remote clock offset: -4.609 ms

# Below is generated by plot.py at 2018-05-22 12:55:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.56 Mbit/s  
95th percentile per-packet one-way delay: 5.112 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 83.56 Mbit/s  
95th percentile per-packet one-way delay: 5.112 ms  
Loss rate: 0.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 12:41:02

End at: 2018-05-22 12:41:32

Local clock offset: -6.271 ms

Remote clock offset: -7.054 ms

# Below is generated by plot.py at 2018-05-22 12:55:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 5.002 ms

Loss rate: 0.02%

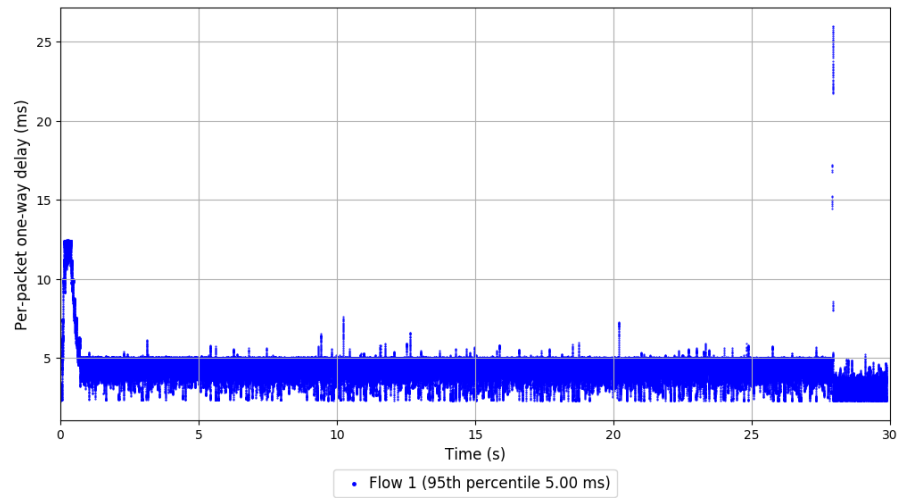
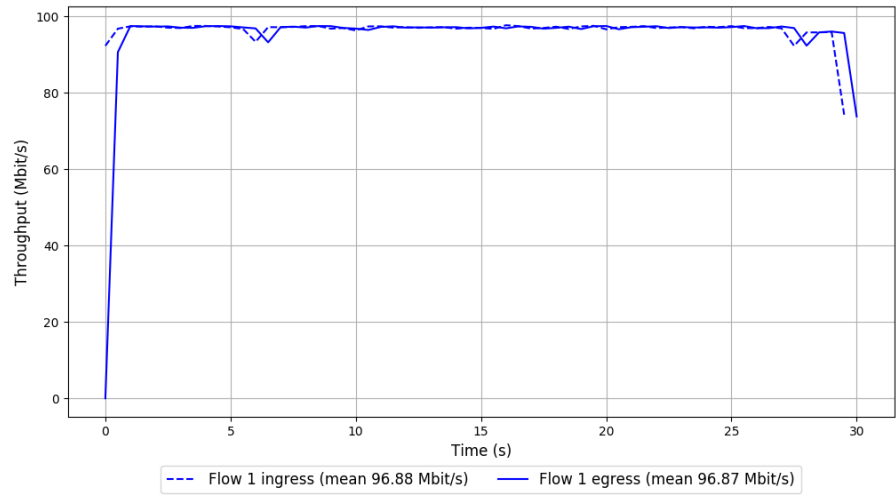
-- Flow 1:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 5.002 ms

Loss rate: 0.02%

## Run 10: Report of Indigo — Data Link

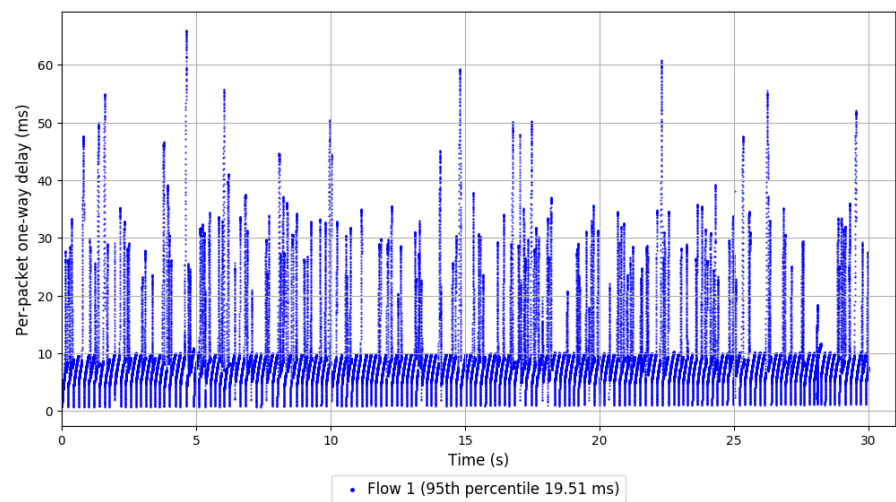
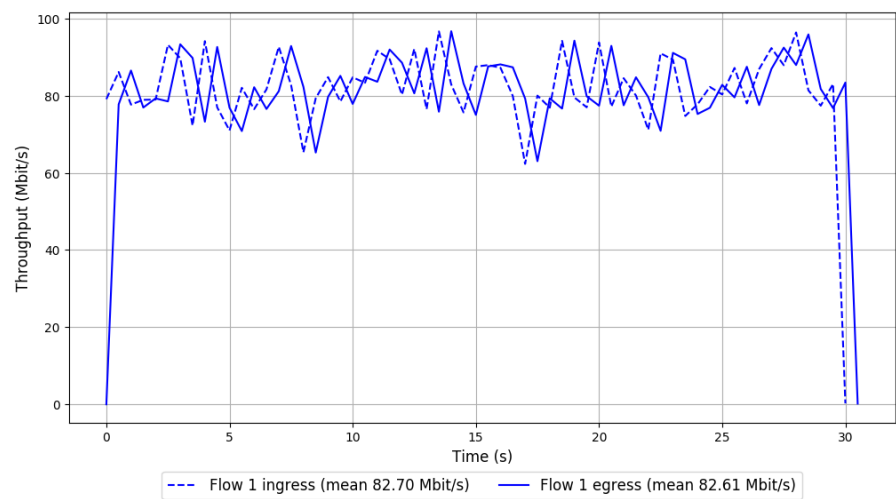


Run 1: Statistics of LEDBAT

Start at: 2018-05-22 10:01:37  
End at: 2018-05-22 10:02:07  
Local clock offset: -3.033 ms  
Remote clock offset: -5.781 ms

# Below is generated by plot.py at 2018-05-22 12:55:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.61 Mbit/s  
95th percentile per-packet one-way delay: 19.511 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 82.61 Mbit/s  
95th percentile per-packet one-way delay: 19.511 ms  
Loss rate: 0.10%

Run 1: Report of LEDBAT — Data Link

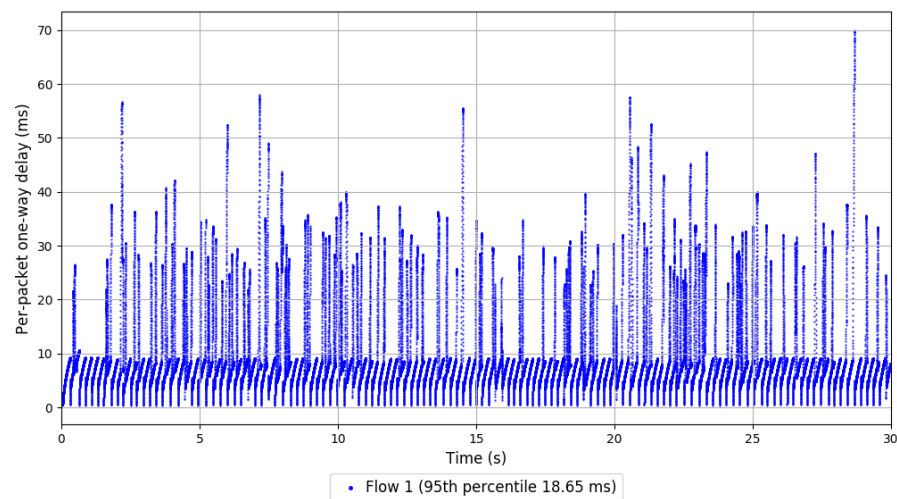
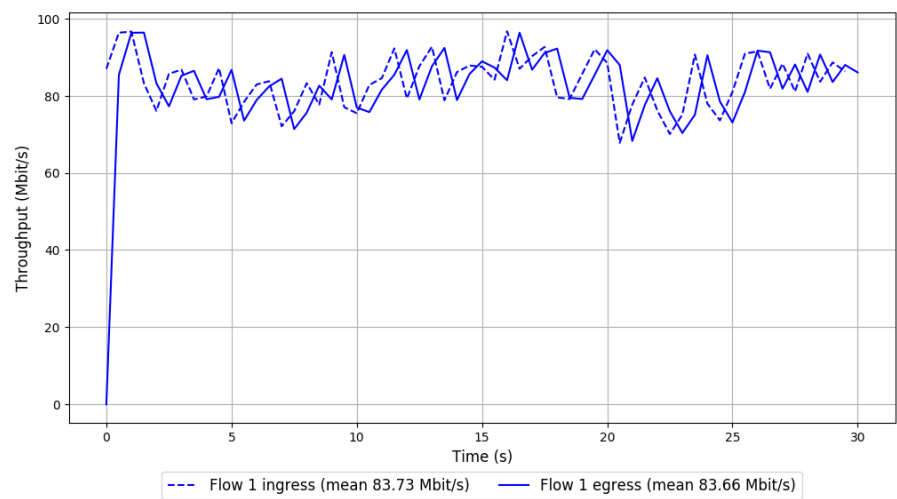


Run 2: Statistics of LEDBAT

Start at: 2018-05-22 10:19:05  
End at: 2018-05-22 10:19:35  
Local clock offset: -6.455 ms  
Remote clock offset: -1.475 ms

# Below is generated by plot.py at 2018-05-22 12:55:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.66 Mbit/s  
95th percentile per-packet one-way delay: 18.654 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 83.66 Mbit/s  
95th percentile per-packet one-way delay: 18.654 ms  
Loss rate: 0.10%

Run 2: Report of LEDBAT — Data Link

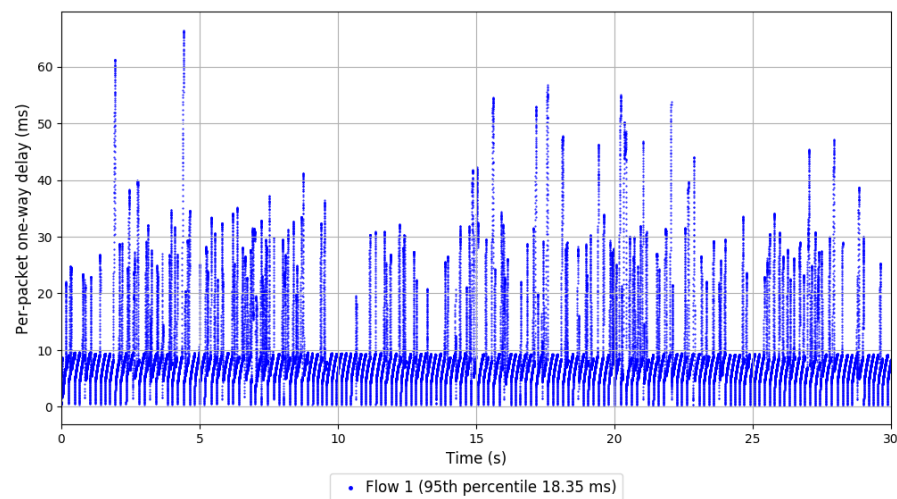
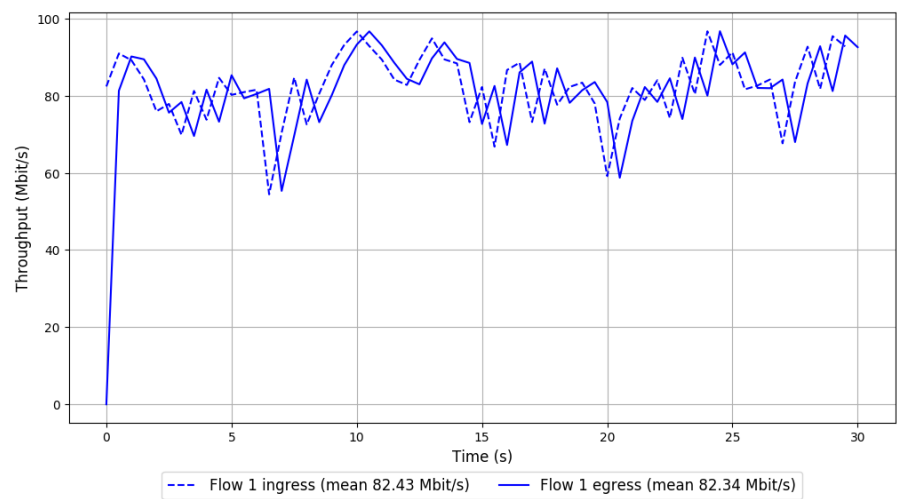


Run 3: Statistics of LEDBAT

Start at: 2018-05-22 10:36:34  
End at: 2018-05-22 10:37:04  
Local clock offset: -6.336 ms  
Remote clock offset: -3.801 ms

# Below is generated by plot.py at 2018-05-22 12:55:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.34 Mbit/s  
95th percentile per-packet one-way delay: 18.350 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 82.34 Mbit/s  
95th percentile per-packet one-way delay: 18.350 ms  
Loss rate: 0.11%

Run 3: Report of LEDBAT — Data Link

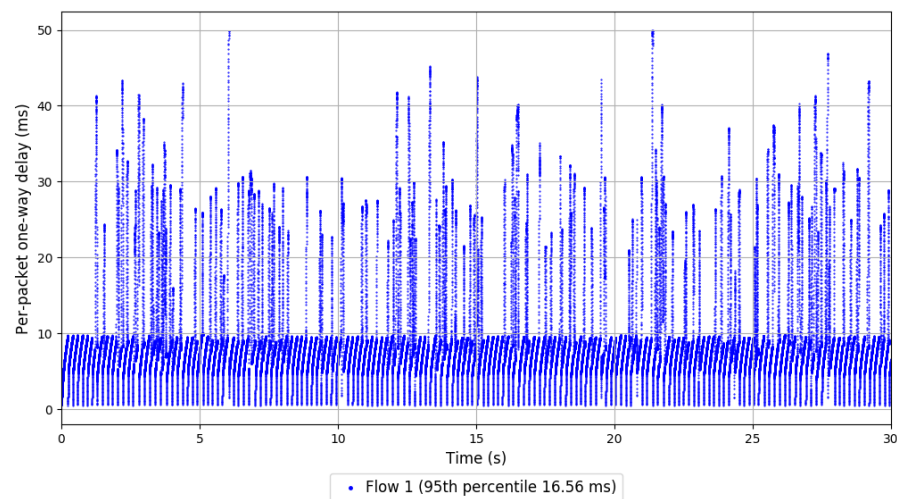
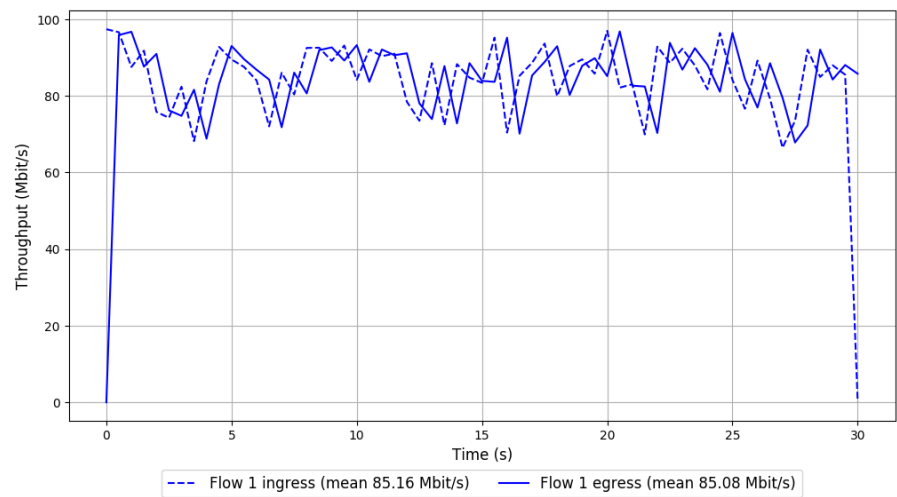


Run 4: Statistics of LEDBAT

Start at: 2018-05-22 10:54:05  
End at: 2018-05-22 10:54:35  
Local clock offset: -6.336 ms  
Remote clock offset: -7.486 ms

# Below is generated by plot.py at 2018-05-22 12:55:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.08 Mbit/s  
95th percentile per-packet one-way delay: 16.563 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 85.08 Mbit/s  
95th percentile per-packet one-way delay: 16.563 ms  
Loss rate: 0.10%

Run 4: Report of LEDBAT — Data Link

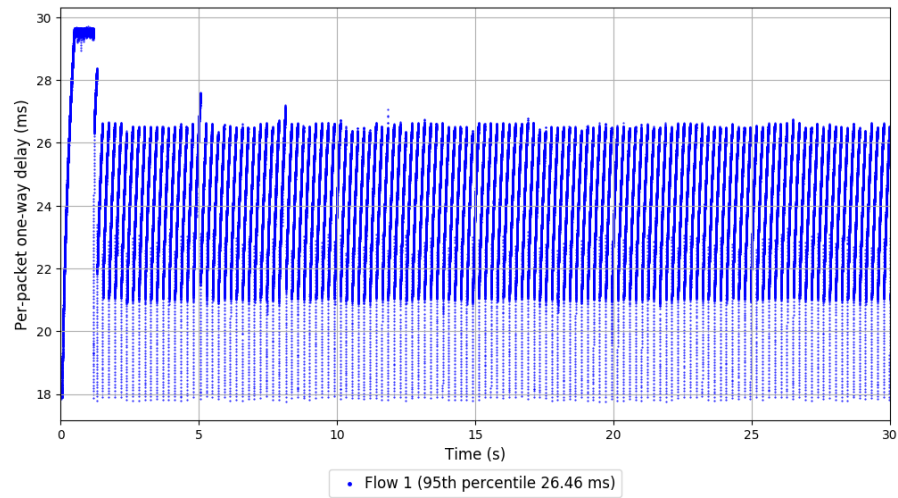
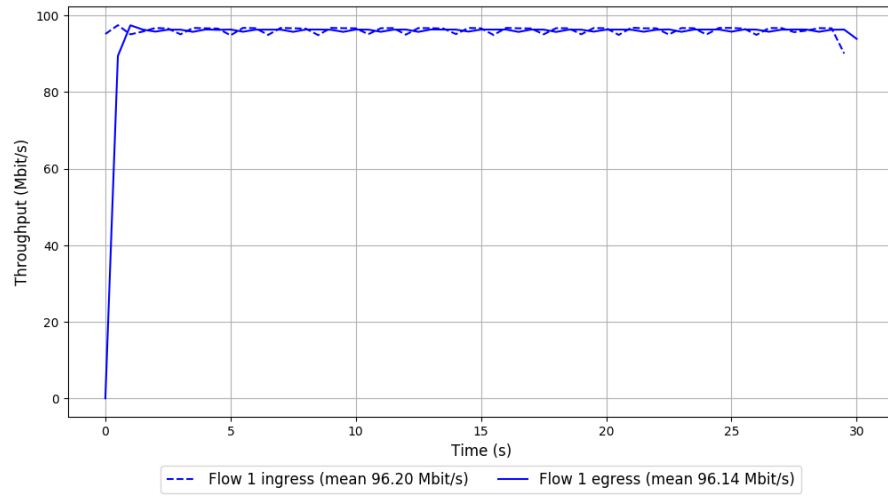


Run 5: Statistics of LEDBAT

Start at: 2018-05-22 11:11:46  
End at: 2018-05-22 11:12:16  
Local clock offset: 14.942 ms  
Remote clock offset: -7.442 ms

# Below is generated by plot.py at 2018-05-22 12:55:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.14 Mbit/s  
95th percentile per-packet one-way delay: 26.457 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 96.14 Mbit/s  
95th percentile per-packet one-way delay: 26.457 ms  
Loss rate: 0.08%

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

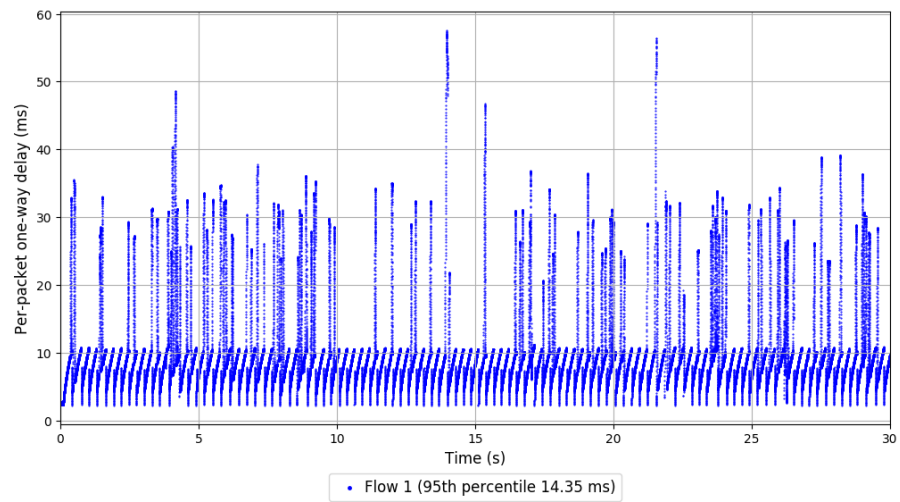
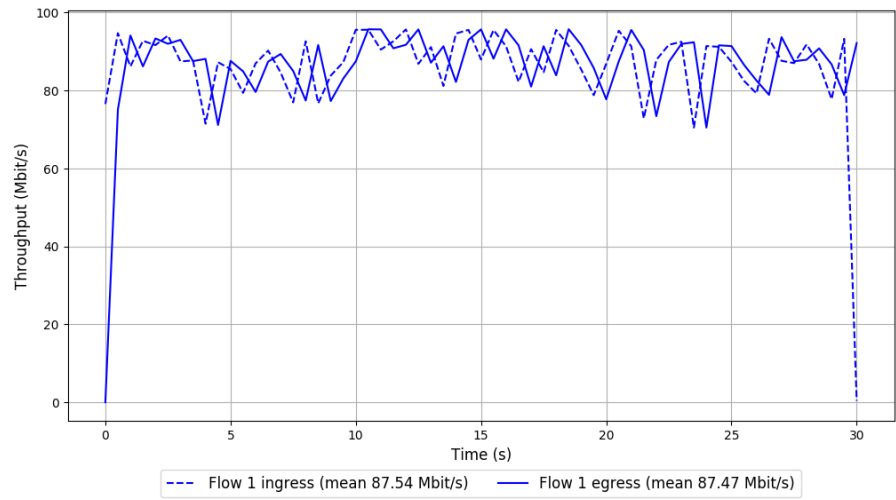


Run 6: Statistics of LEDBAT

Start at: 2018-05-22 11:29:31  
End at: 2018-05-22 11:30:01  
Local clock offset: -1.38 ms  
Remote clock offset: -6.942 ms

# Below is generated by plot.py at 2018-05-22 12:55:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.47 Mbit/s  
95th percentile per-packet one-way delay: 14.354 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 87.47 Mbit/s  
95th percentile per-packet one-way delay: 14.354 ms  
Loss rate: 0.09%

## Run 6: Report of LEDBAT — Data Link

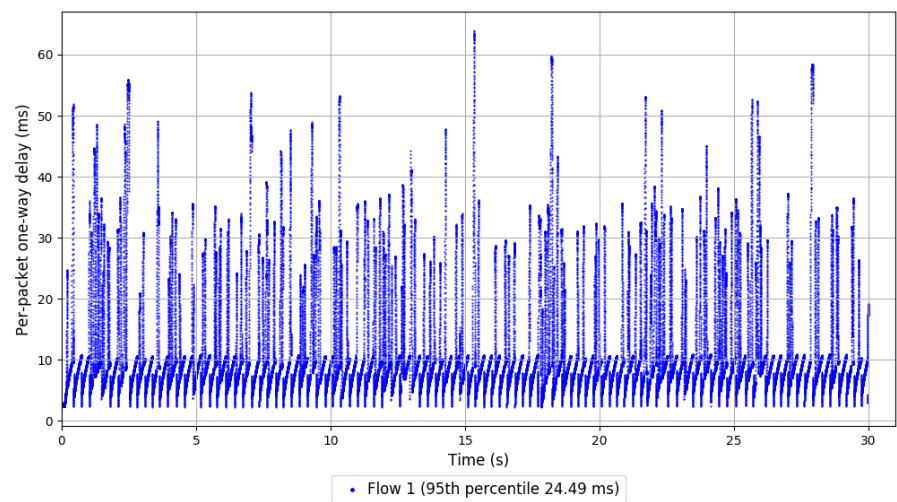
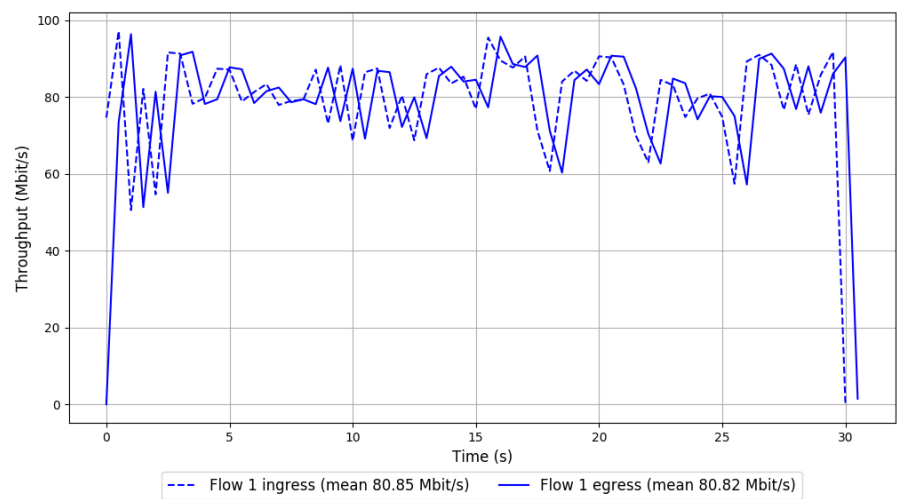


Run 7: Statistics of LEDBAT

Start at: 2018-05-22 11:47:02  
End at: 2018-05-22 11:47:32  
Local clock offset: -0.929 ms  
Remote clock offset: -3.413 ms

# Below is generated by plot.py at 2018-05-22 12:56:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.82 Mbit/s  
95th percentile per-packet one-way delay: 24.488 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 80.82 Mbit/s  
95th percentile per-packet one-way delay: 24.488 ms  
Loss rate: 0.07%

Run 7: Report of LEDBAT — Data Link

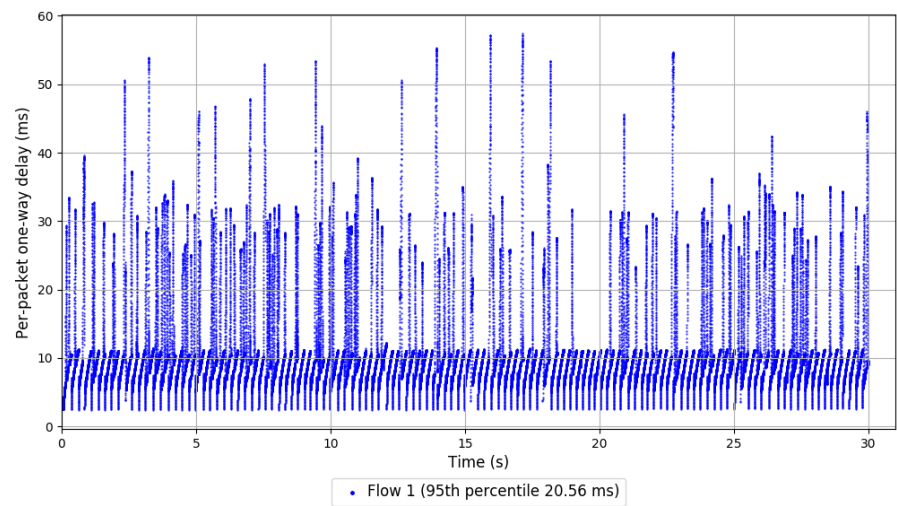
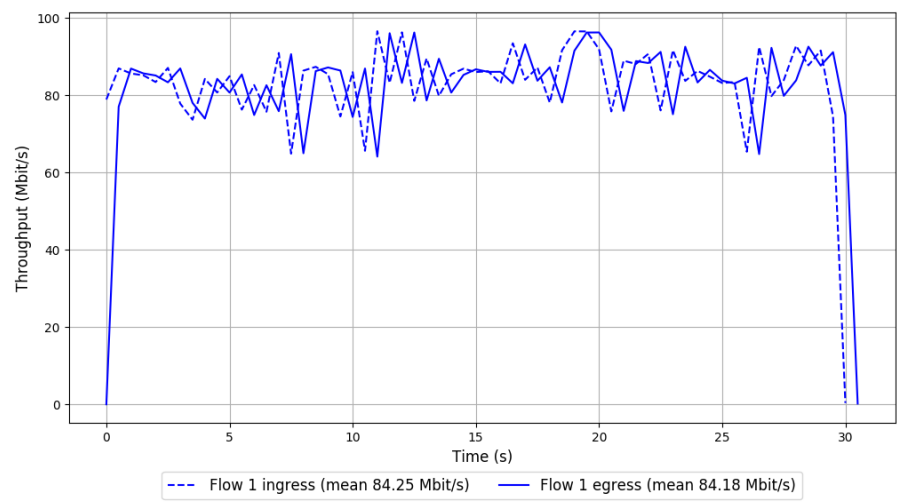


Run 8: Statistics of LEDBAT

Start at: 2018-05-22 12:04:41  
End at: 2018-05-22 12:05:11  
Local clock offset: -4.076 ms  
Remote clock offset: -0.448 ms

# Below is generated by plot.py at 2018-05-22 12:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.18 Mbit/s  
95th percentile per-packet one-way delay: 20.556 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 84.18 Mbit/s  
95th percentile per-packet one-way delay: 20.556 ms  
Loss rate: 0.10%

Run 8: Report of LEDBAT — Data Link

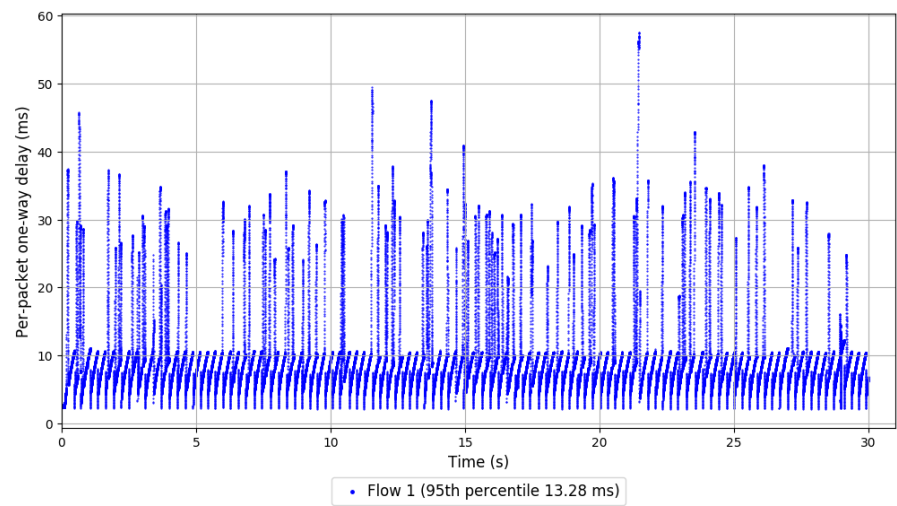
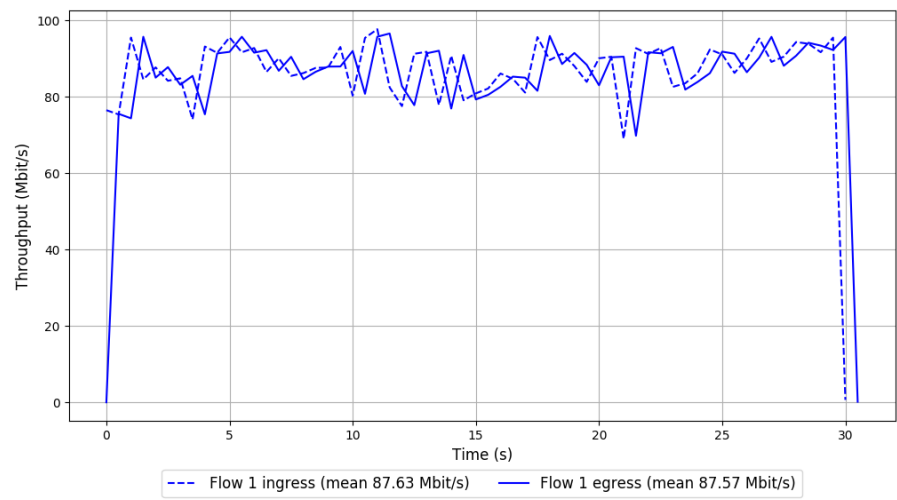


Run 9: Statistics of LEDBAT

Start at: 2018-05-22 12:22:14  
End at: 2018-05-22 12:22:44  
Local clock offset: -6.544 ms  
Remote clock offset: -4.224 ms

# Below is generated by plot.py at 2018-05-22 12:56:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.57 Mbit/s  
95th percentile per-packet one-way delay: 13.279 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 87.57 Mbit/s  
95th percentile per-packet one-way delay: 13.279 ms  
Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link

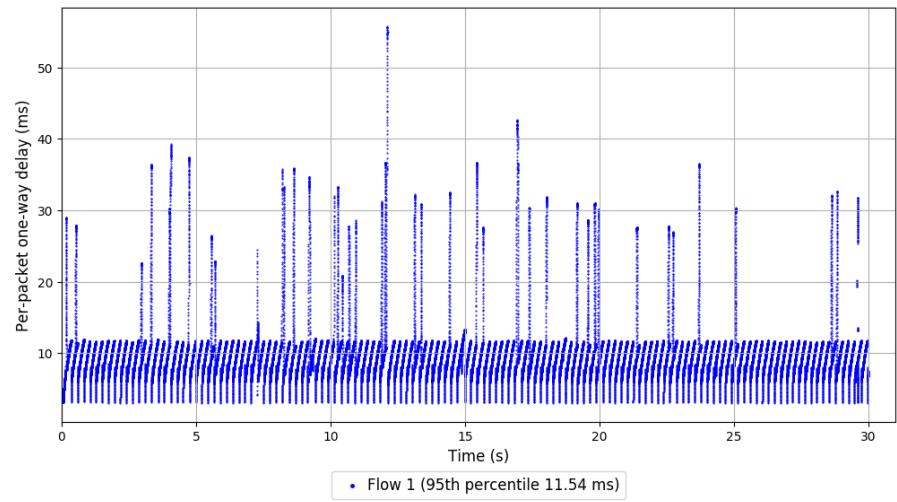
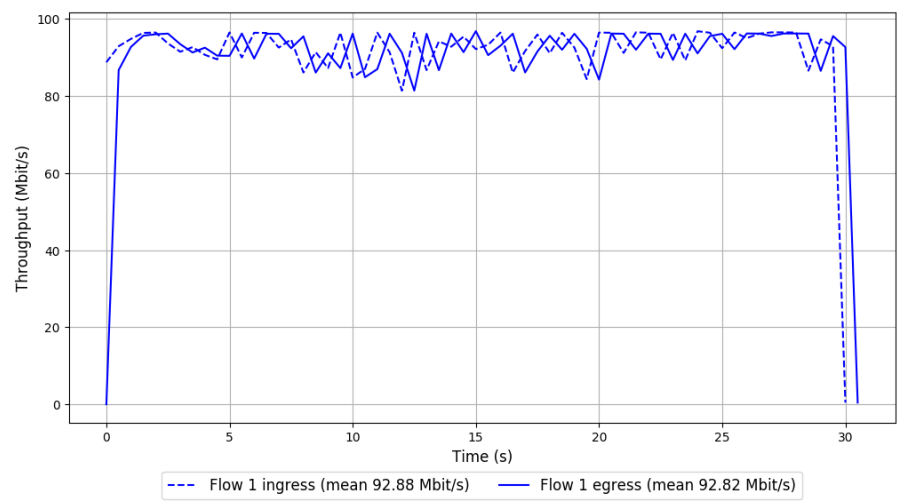


Run 10: Statistics of LEDBAT

Start at: 2018-05-22 12:39:54  
End at: 2018-05-22 12:40:24  
Local clock offset: -5.426 ms  
Remote clock offset: -6.973 ms

# Below is generated by plot.py at 2018-05-22 12:56:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.82 Mbit/s  
95th percentile per-packet one-way delay: 11.539 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 92.82 Mbit/s  
95th percentile per-packet one-way delay: 11.539 ms  
Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link

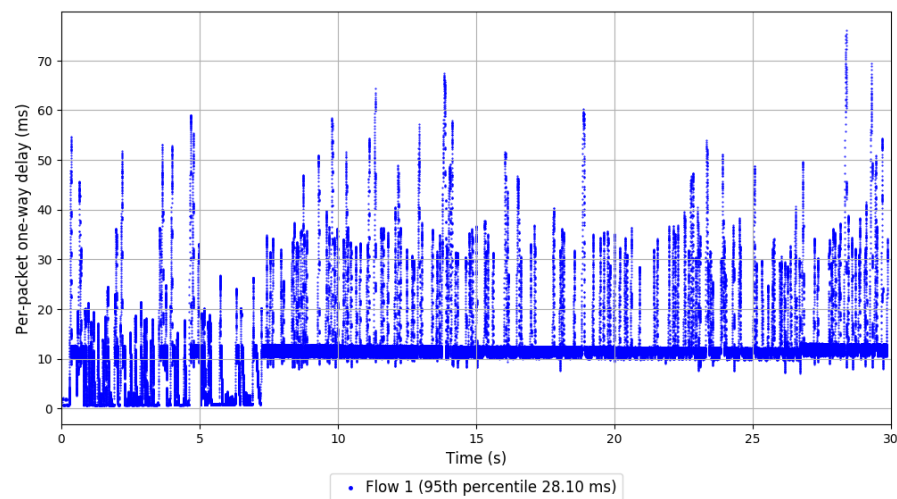
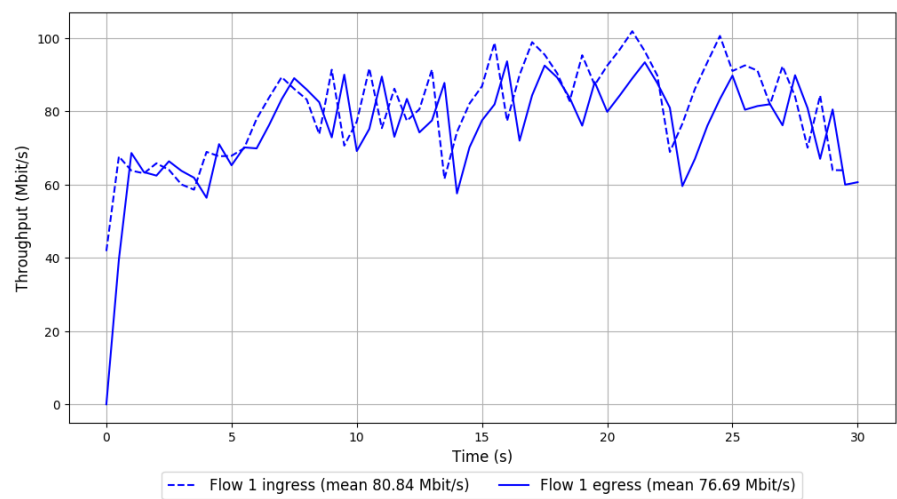


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-22 09:57:16
End at: 2018-05-22 09:57:46
Local clock offset: -0.855 ms
Remote clock offset: -8.504 ms

# Below is generated by plot.py at 2018-05-22 12:56:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 28.103 ms
Loss rate: 5.16%
-- Flow 1:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 28.103 ms
Loss rate: 5.16%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-22 10:14:45

End at: 2018-05-22 10:15:15

Local clock offset: -5.985 ms

Remote clock offset: -2.019 ms

# Below is generated by plot.py at 2018-05-22 12:56:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.71 Mbit/s

95th percentile per-packet one-way delay: 22.991 ms

Loss rate: 1.70%

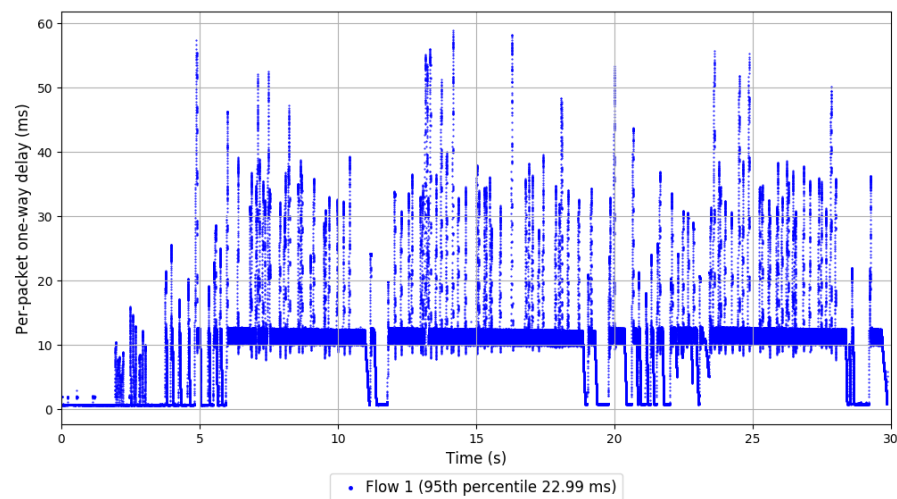
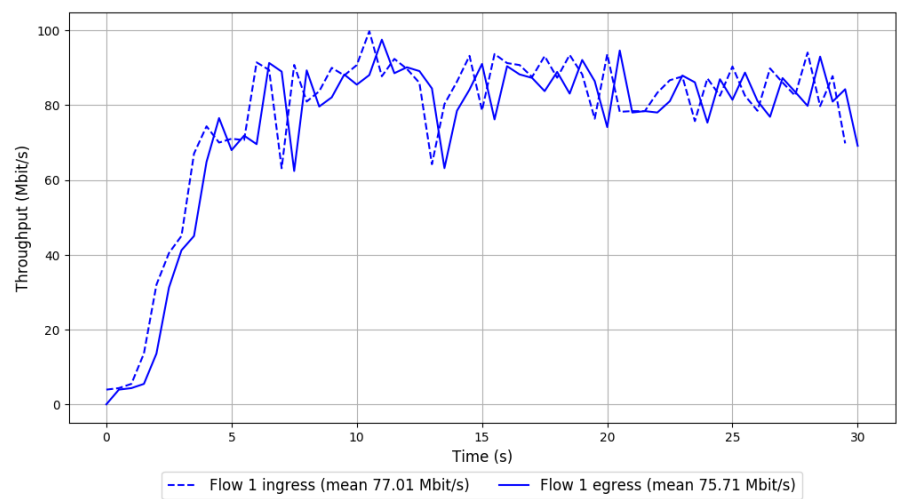
-- Flow 1:

Average throughput: 75.71 Mbit/s

95th percentile per-packet one-way delay: 22.991 ms

Loss rate: 1.70%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-22 10:32:13

End at: 2018-05-22 10:32:43

Local clock offset: -6.461 ms

Remote clock offset: -1.51 ms

# Below is generated by plot.py at 2018-05-22 12:56:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 24.731 ms

Loss rate: 1.03%

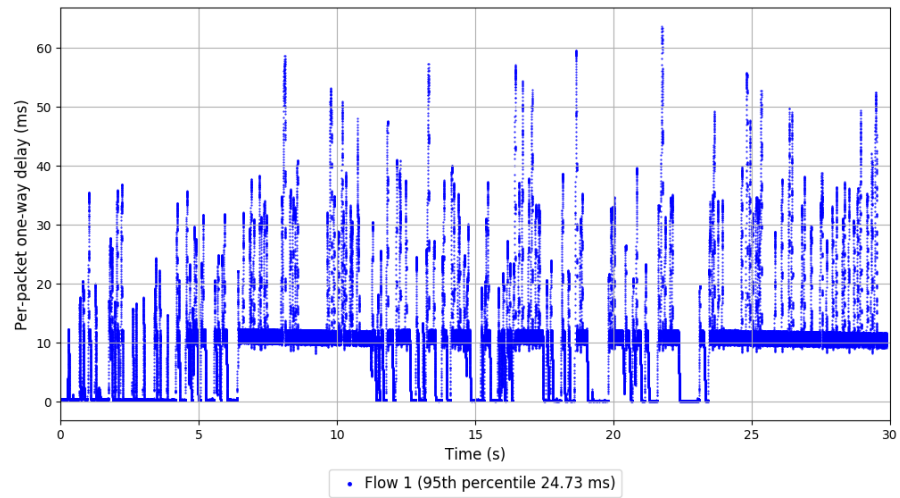
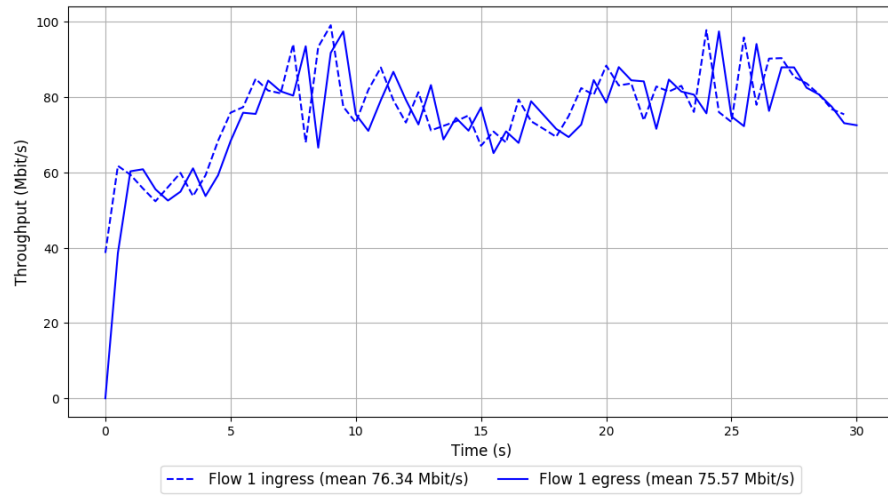
-- Flow 1:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 24.731 ms

Loss rate: 1.03%

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



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-22 10:49:42

End at: 2018-05-22 10:50:12

Local clock offset: -6.225 ms

Remote clock offset: -6.996 ms

# Below is generated by plot.py at 2018-05-22 12:56:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 13.673 ms

Loss rate: 0.17%

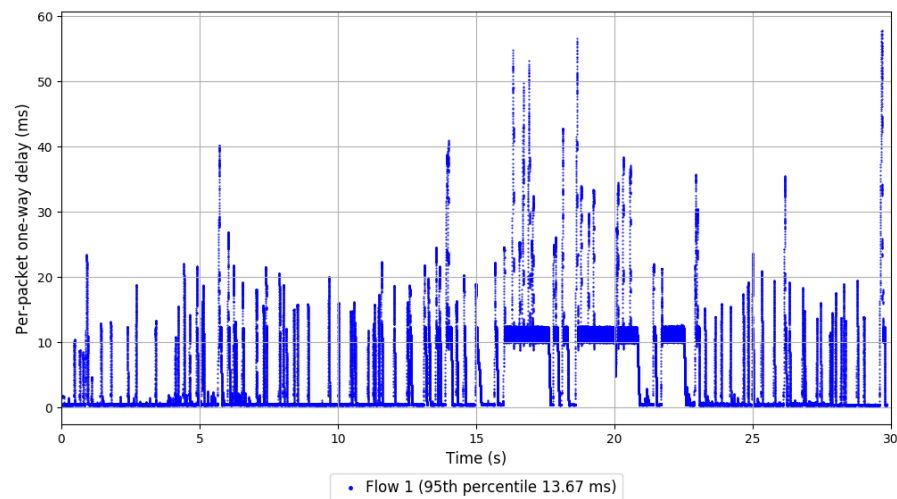
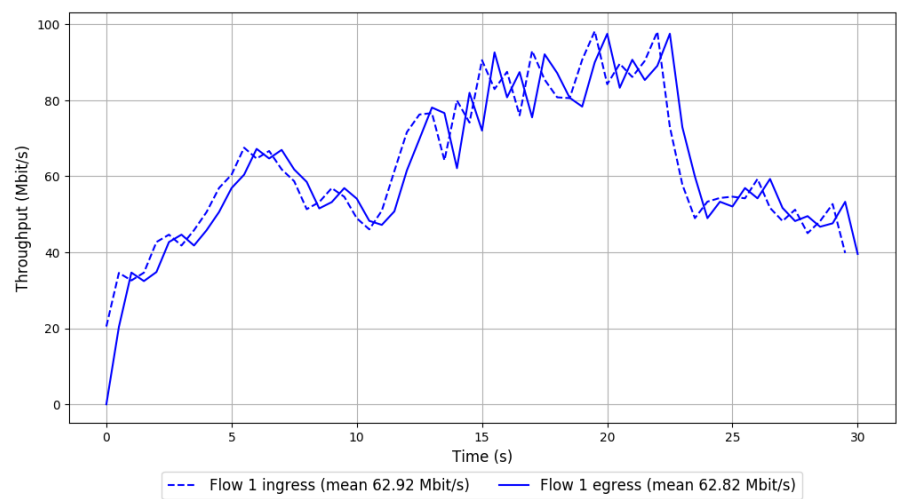
-- Flow 1:

Average throughput: 62.82 Mbit/s

95th percentile per-packet one-way delay: 13.673 ms

Loss rate: 0.17%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-22 11:07:18

End at: 2018-05-22 11:07:48

Local clock offset: -3.119 ms

Remote clock offset: -7.983 ms

# Below is generated by plot.py at 2018-05-22 12:57:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 2.155 ms

Loss rate: 0.01%

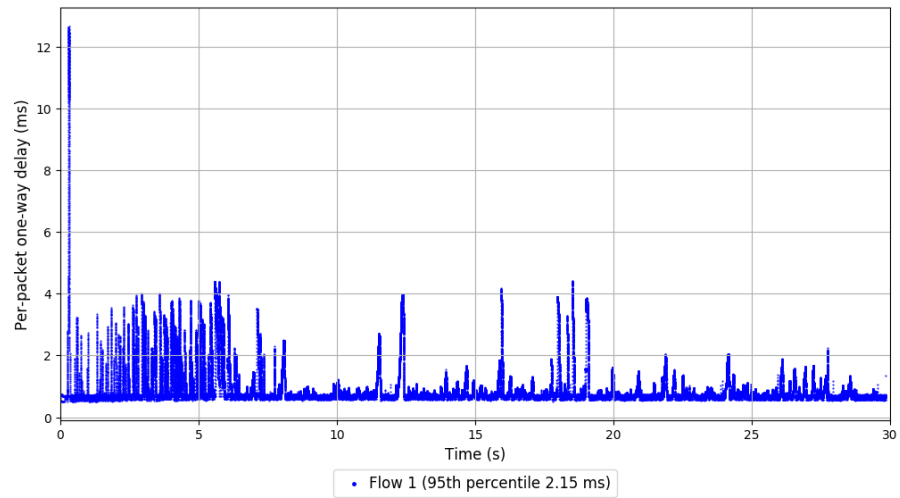
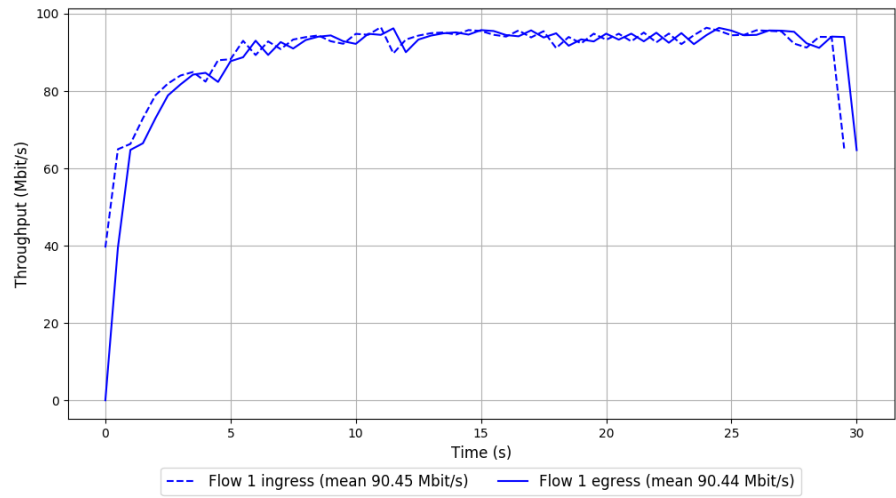
-- Flow 1:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 2.155 ms

Loss rate: 0.01%

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



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-22 11:25:02

End at: 2018-05-22 11:25:32

Local clock offset: -0.642 ms

Remote clock offset: -6.938 ms

# Below is generated by plot.py at 2018-05-22 12:57:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 20.280 ms

Loss rate: 0.83%

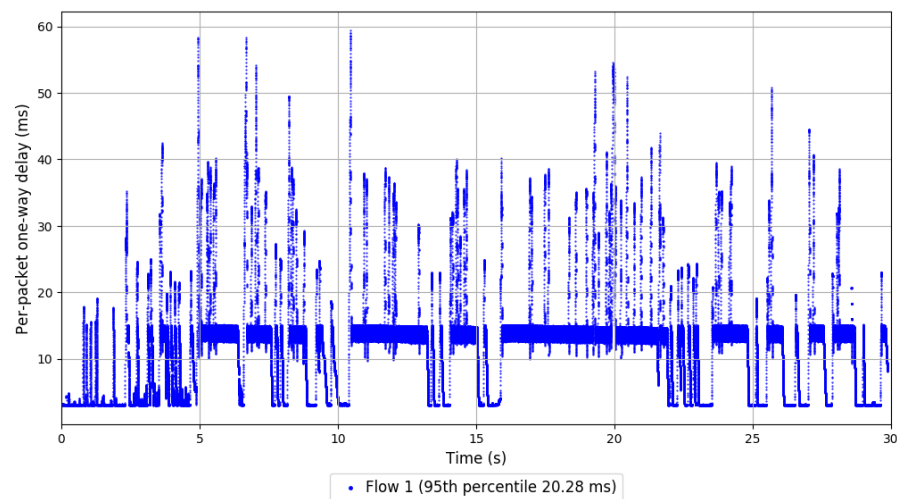
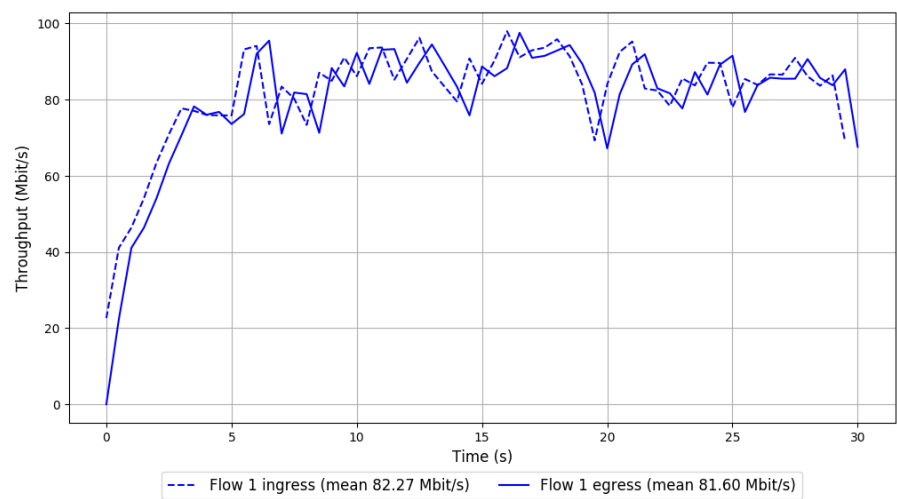
-- Flow 1:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 20.280 ms

Loss rate: 0.83%

Run 6: Report of PCC-Allegro — Data Link

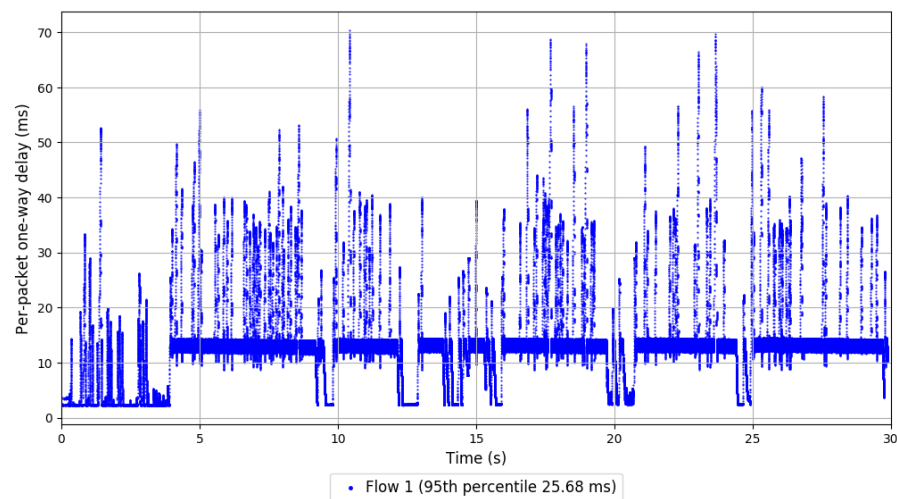
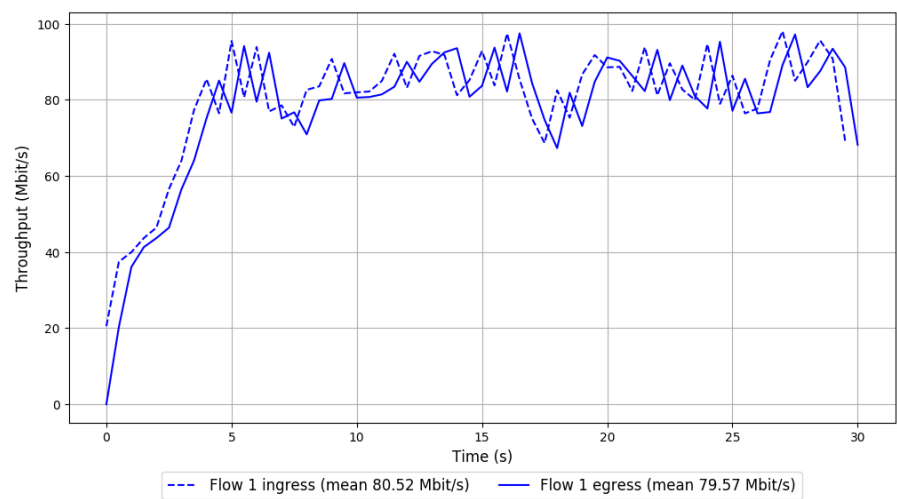


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-22 11:42:40  
End at: 2018-05-22 11:43:10  
Local clock offset: -0.99 ms  
Remote clock offset: -4.986 ms

# Below is generated by plot.py at 2018-05-22 12:57:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.57 Mbit/s  
95th percentile per-packet one-way delay: 25.676 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 79.57 Mbit/s  
95th percentile per-packet one-way delay: 25.676 ms  
Loss rate: 1.21%

Run 7: Report of PCC-Allegro — Data Link

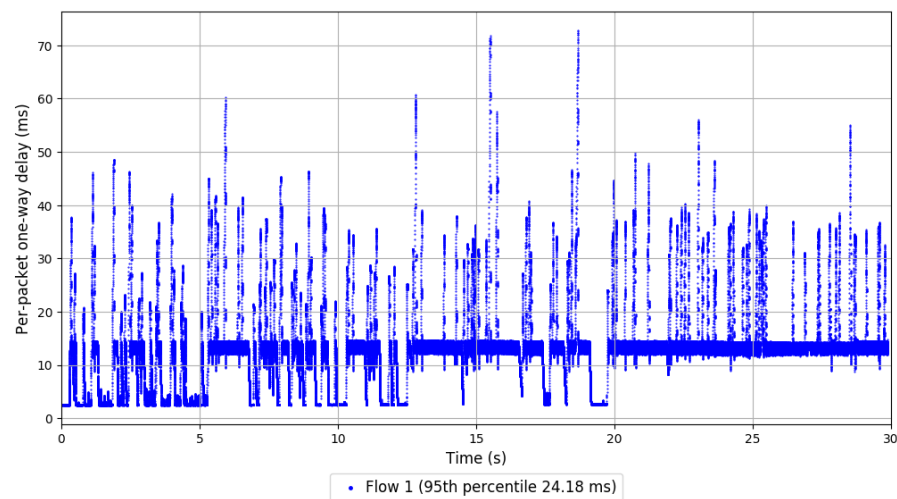
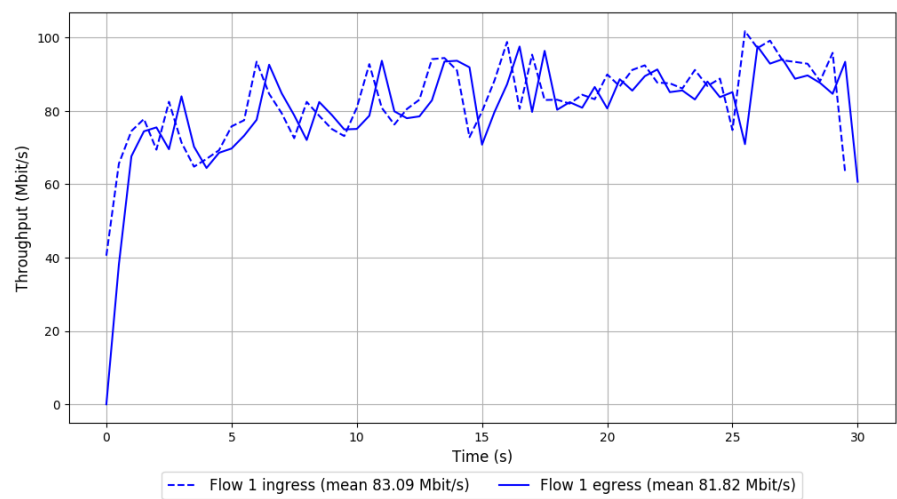


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 12:00:13  
End at: 2018-05-22 12:00:43  
Local clock offset: -2.566 ms  
Remote clock offset: -0.927 ms

# Below is generated by plot.py at 2018-05-22 12:57:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.82 Mbit/s  
95th percentile per-packet one-way delay: 24.178 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 81.82 Mbit/s  
95th percentile per-packet one-way delay: 24.178 ms  
Loss rate: 1.56%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 12:17:49

End at: 2018-05-22 12:18:19

Local clock offset: -6.96 ms

Remote clock offset: -2.493 ms

# Below is generated by plot.py at 2018-05-22 12:57:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 62.01 Mbit/s

95th percentile per-packet one-way delay: 21.978 ms

Loss rate: 0.74%

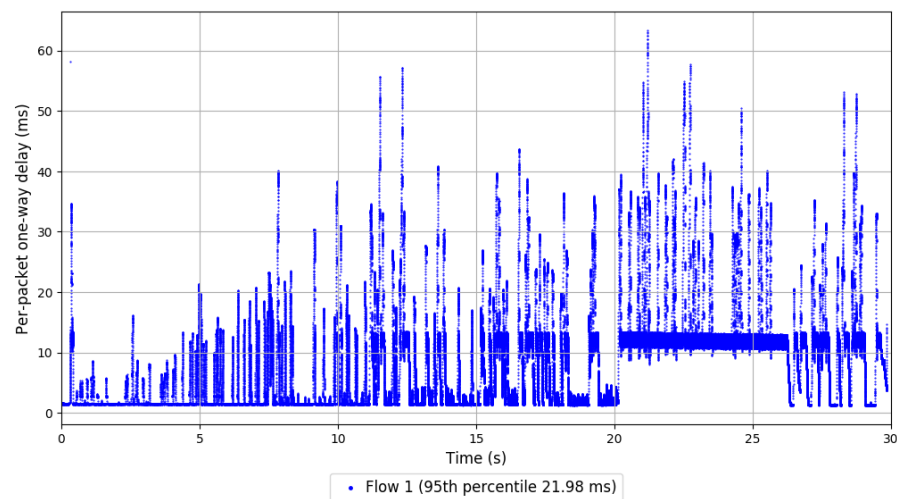
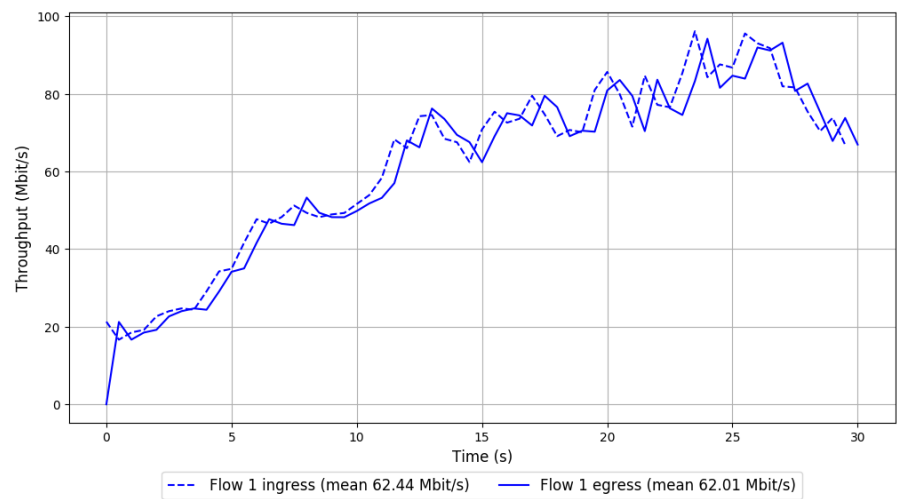
-- Flow 1:

Average throughput: 62.01 Mbit/s

95th percentile per-packet one-way delay: 21.978 ms

Loss rate: 0.74%

Run 9: Report of PCC-Allegro — Data Link

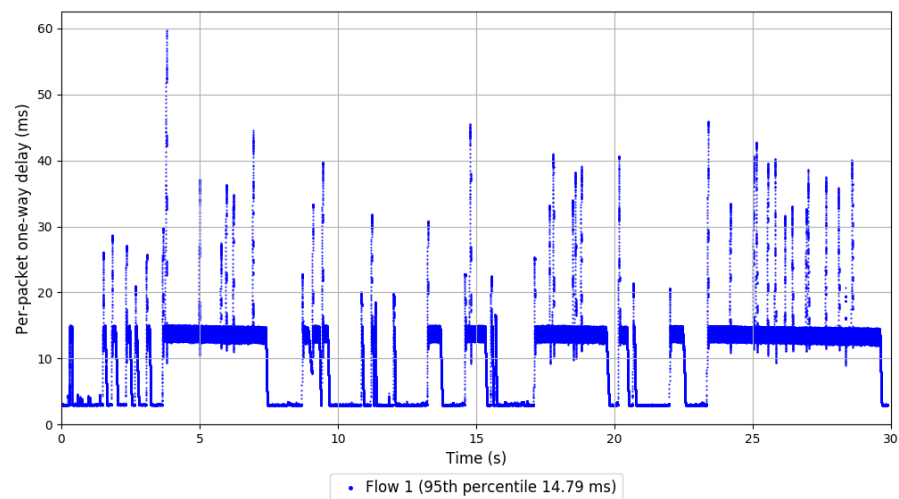
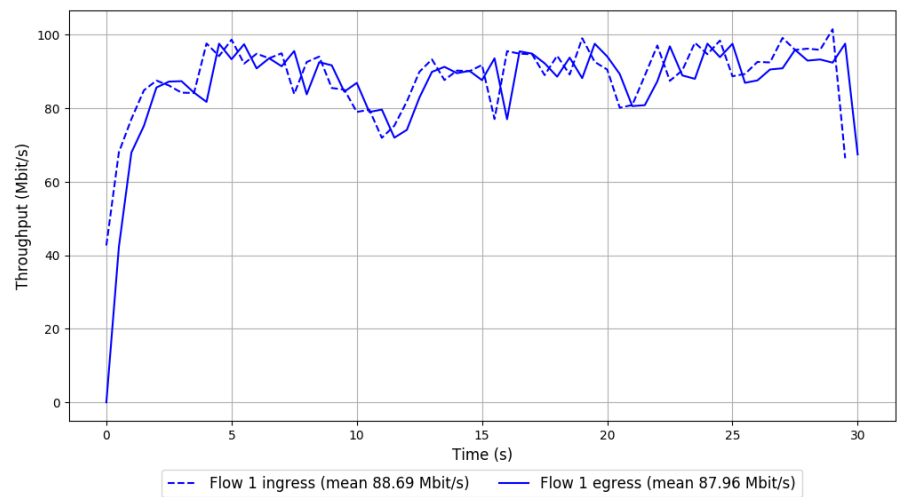


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 12:35:23  
End at: 2018-05-22 12:35:53  
Local clock offset: -5.496 ms  
Remote clock offset: -6.509 ms

# Below is generated by plot.py at 2018-05-22 12:57:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.96 Mbit/s  
95th percentile per-packet one-way delay: 14.789 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 87.96 Mbit/s  
95th percentile per-packet one-way delay: 14.789 ms  
Loss rate: 0.84%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-22 09:51:54

End at: 2018-05-22 09:52:24

Local clock offset: -0.474 ms

Remote clock offset: -8.488 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-22 10:09:23  
End at: 2018-05-22 10:09:53  
Local clock offset: -5.211 ms  
Remote clock offset: -3.039 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-22 10:26:51

End at: 2018-05-22 10:27:21

Local clock offset: -6.743 ms

Remote clock offset: -0.869 ms

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

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-22 10:44:20

End at: 2018-05-22 10:44:50

Local clock offset: -6.289 ms

Remote clock offset: -6.047 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-22 11:01:54

End at: 2018-05-22 11:02:24

Local clock offset: -3.158 ms

Remote clock offset: -8.17 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-22 11:19:40

End at: 2018-05-22 11:20:10

Local clock offset: -1.742 ms

Remote clock offset: -7.035 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-22 11:37:17

End at: 2018-05-22 11:37:47

Local clock offset: -1.969 ms

Remote clock offset: -6.854 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-05-22 11:54:48

End at: 2018-05-22 11:55:18

Local clock offset: -1.428 ms

Remote clock offset: -1.774 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 12:12:27

End at: 2018-05-22 12:12:57

Local clock offset: -5.601 ms

Remote clock offset: 0.197 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 12:30:01

End at: 2018-05-22 12:30:31

Local clock offset: -6.565 ms

Remote clock offset: -5.933 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-22 10:07:09

End at: 2018-05-22 10:07:39

Local clock offset: -4.668 ms

Remote clock offset: -3.682 ms

# Below is generated by plot.py at 2018-05-22 12:57:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.64 Mbit/s

95th percentile per-packet one-way delay: 22.537 ms

Loss rate: 0.04%

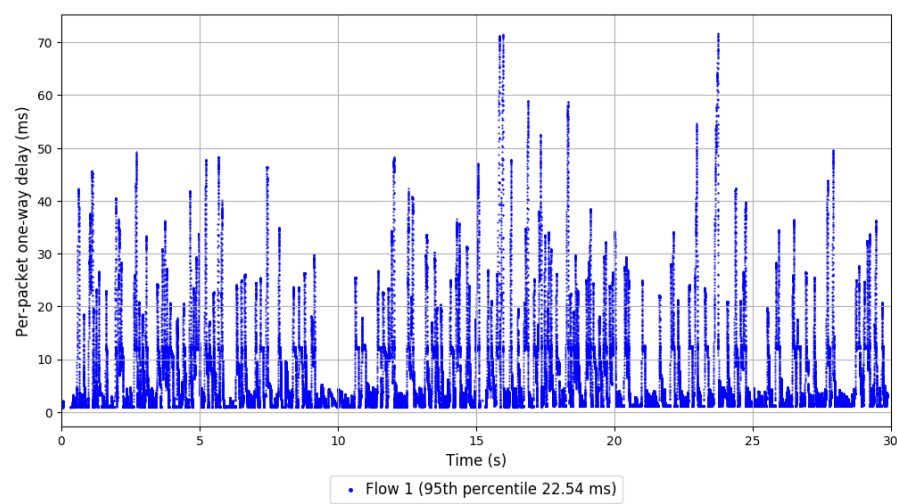
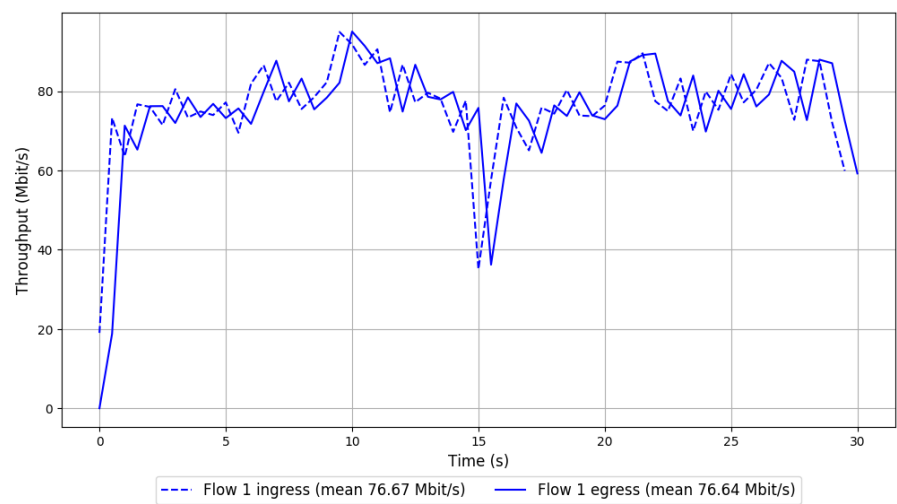
-- Flow 1:

Average throughput: 76.64 Mbit/s

95th percentile per-packet one-way delay: 22.537 ms

Loss rate: 0.04%

Run 1: Report of QUIC Cubic — Data Link

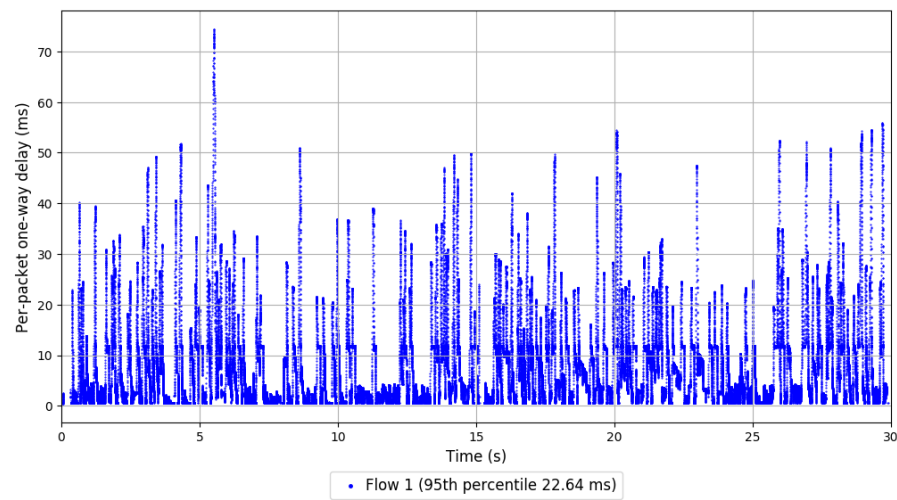
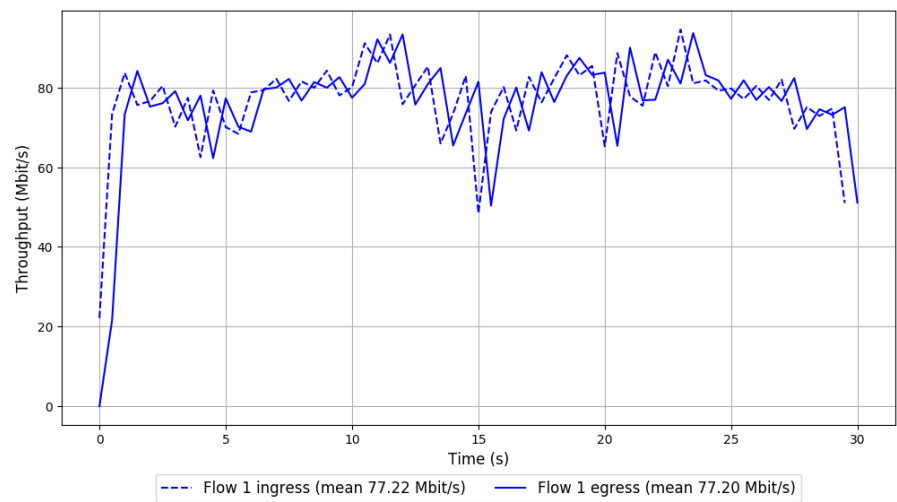


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-22 10:24:37  
End at: 2018-05-22 10:25:07  
Local clock offset: -6.766 ms  
Remote clock offset: -1.084 ms

# Below is generated by plot.py at 2018-05-22 12:57:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.20 Mbit/s  
95th percentile per-packet one-way delay: 22.637 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 77.20 Mbit/s  
95th percentile per-packet one-way delay: 22.637 ms  
Loss rate: 0.03%

Run 2: Report of QUIC Cubic — Data Link

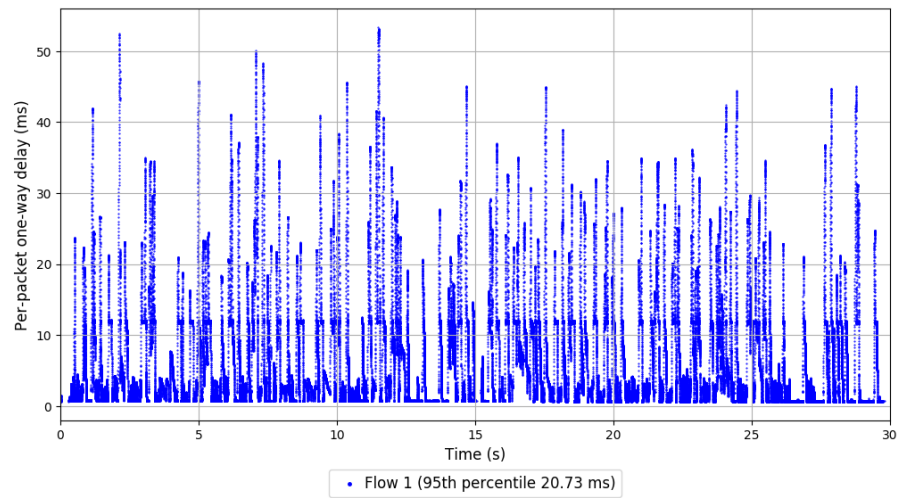
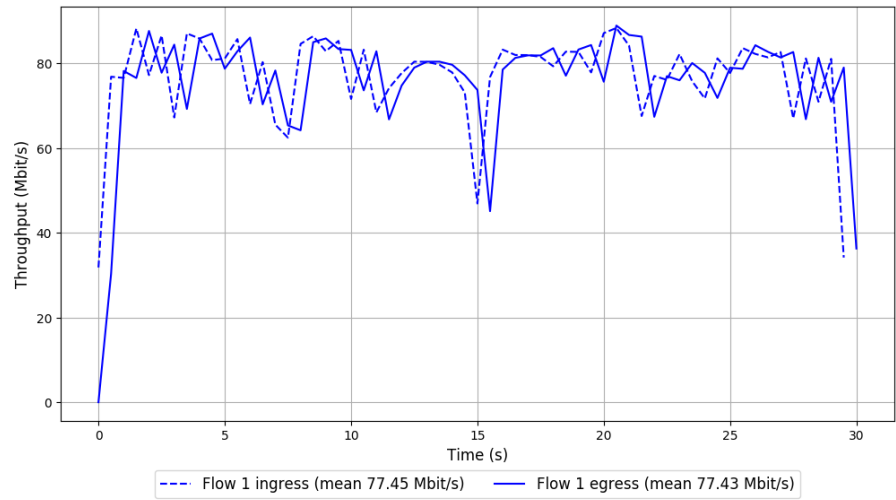


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-22 10:42:07  
End at: 2018-05-22 10:42:37  
Local clock offset: -5.923 ms  
Remote clock offset: -5.607 ms

# Below is generated by plot.py at 2018-05-22 12:58:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.43 Mbit/s  
95th percentile per-packet one-way delay: 20.734 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 77.43 Mbit/s  
95th percentile per-packet one-way delay: 20.734 ms  
Loss rate: 0.03%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-22 10:59:39

End at: 2018-05-22 11:00:10

Local clock offset: -4.853 ms

Remote clock offset: -7.999 ms

# Below is generated by plot.py at 2018-05-22 12:58:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 4.843 ms

Loss rate: 0.01%

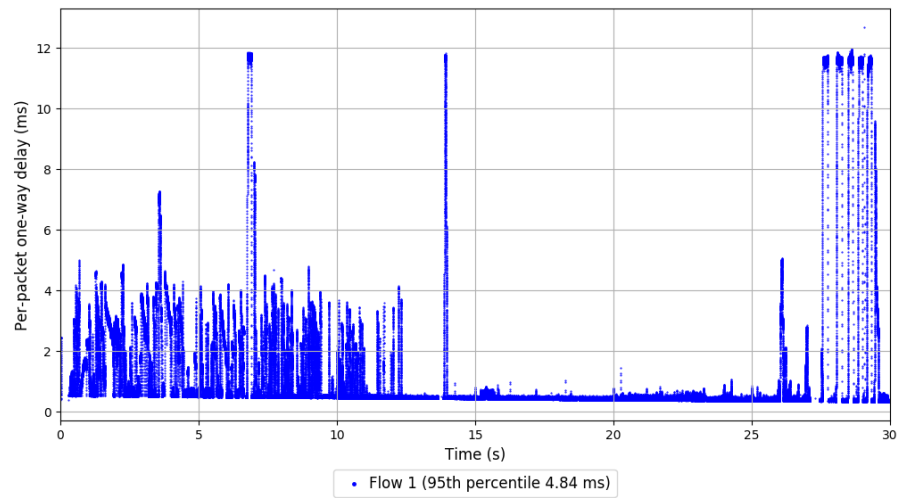
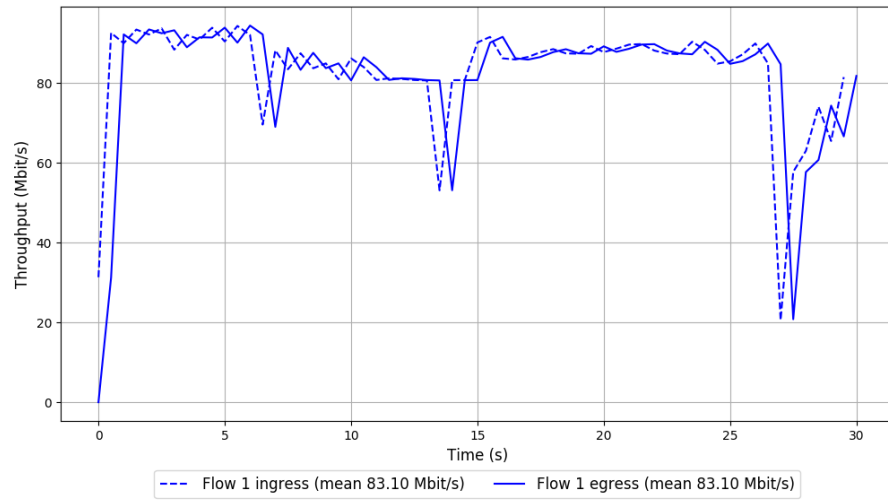
-- Flow 1:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 4.843 ms

Loss rate: 0.01%

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

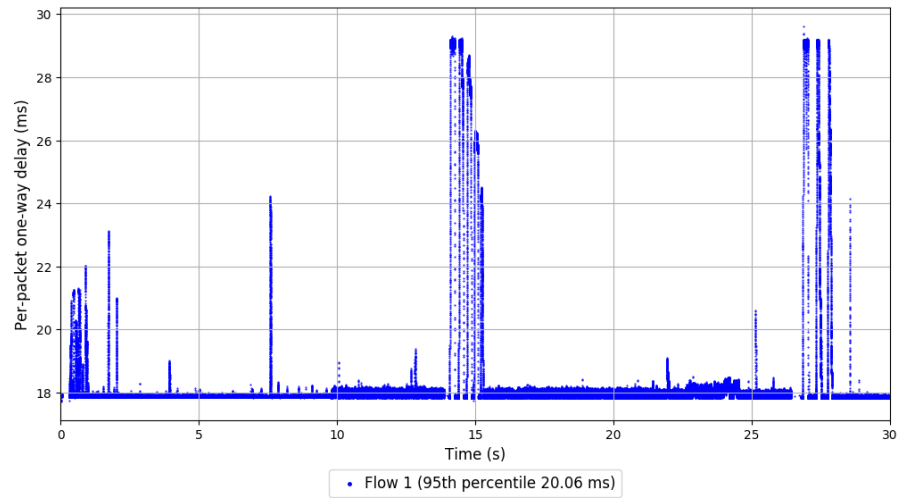
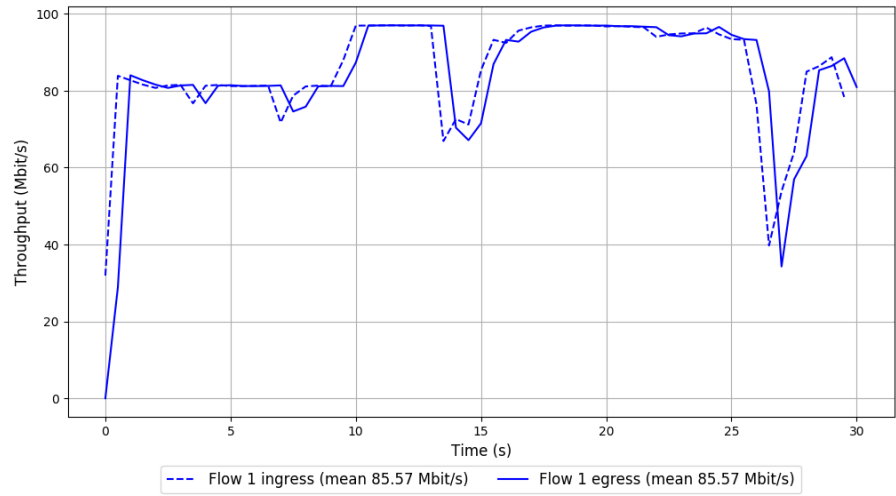


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-22 11:17:21  
End at: 2018-05-22 11:17:51  
Local clock offset: 15.211 ms  
Remote clock offset: -7.119 ms

# Below is generated by plot.py at 2018-05-22 12:58:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.57 Mbit/s  
95th percentile per-packet one-way delay: 20.060 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 85.57 Mbit/s  
95th percentile per-packet one-way delay: 20.060 ms  
Loss rate: 0.01%

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

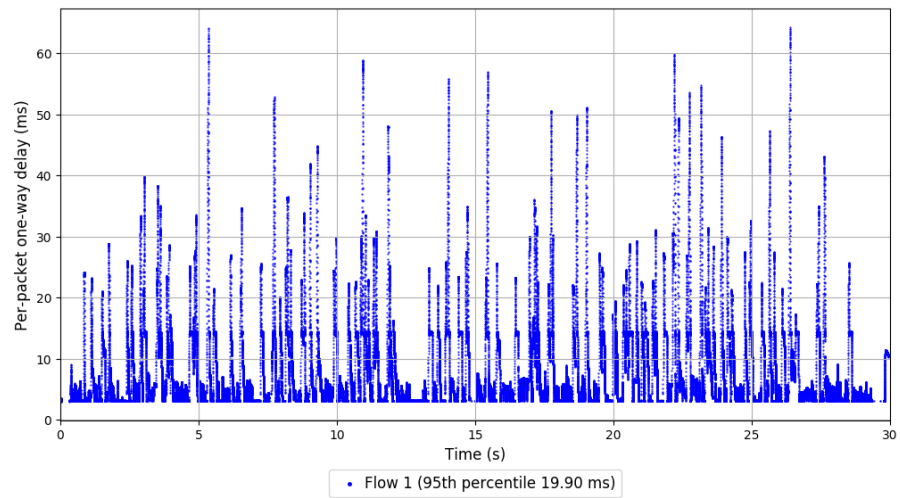
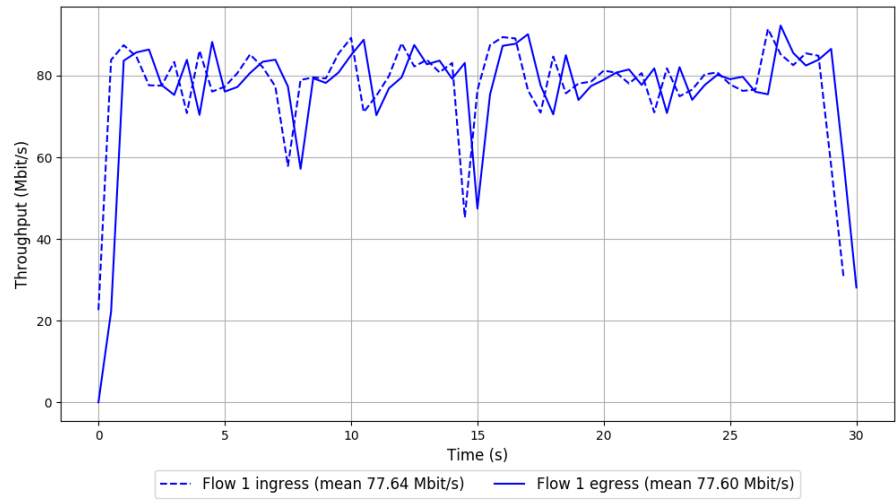


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-22 11:35:03  
End at: 2018-05-22 11:35:34  
Local clock offset: -0.431 ms  
Remote clock offset: -6.834 ms

# Below is generated by plot.py at 2018-05-22 12:58:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.60 Mbit/s  
95th percentile per-packet one-way delay: 19.896 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 77.60 Mbit/s  
95th percentile per-packet one-way delay: 19.896 ms  
Loss rate: 0.06%

## Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-22 11:52:34

End at: 2018-05-22 11:53:04

Local clock offset: 0.095 ms

Remote clock offset: -2.135 ms

# Below is generated by plot.py at 2018-05-22 12:58:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.72 Mbit/s

95th percentile per-packet one-way delay: 25.633 ms

Loss rate: 0.04%

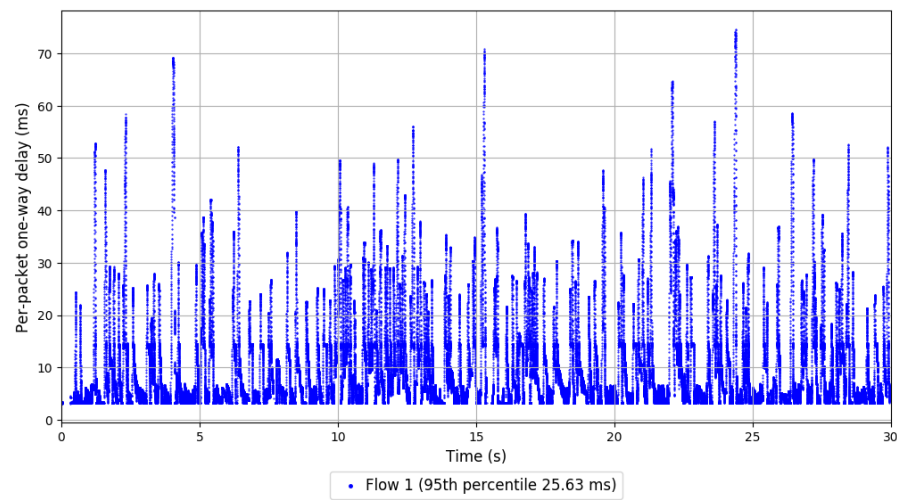
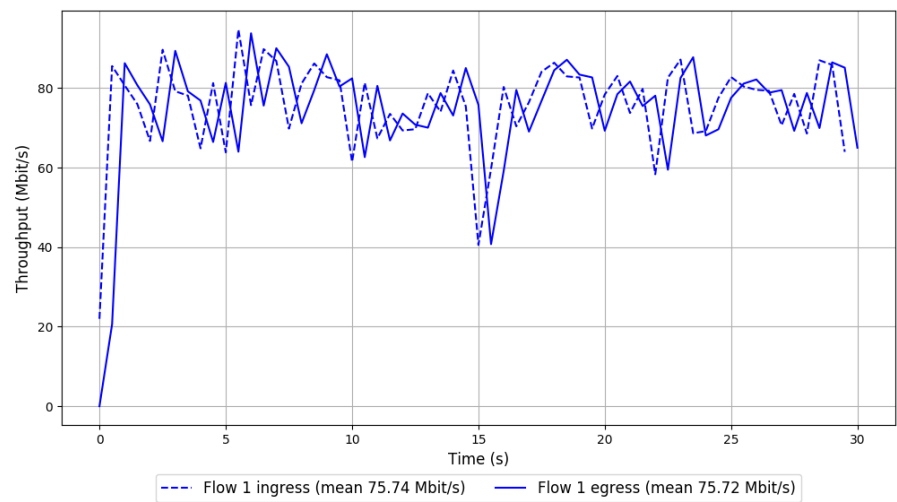
-- Flow 1:

Average throughput: 75.72 Mbit/s

95th percentile per-packet one-way delay: 25.633 ms

Loss rate: 0.04%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 12:10:13

End at: 2018-05-22 12:10:43

Local clock offset: -5.336 ms

Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-05-22 12:58:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 23.538 ms

Loss rate: 0.04%

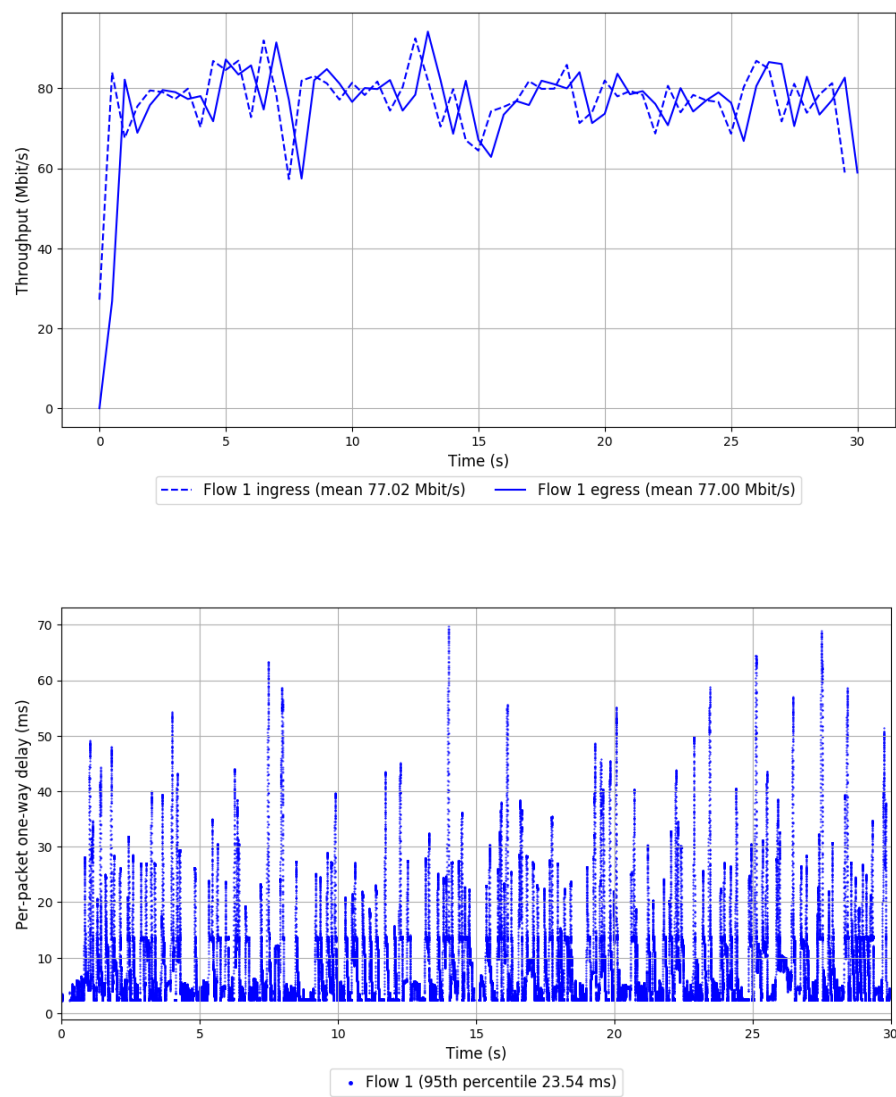
-- Flow 1:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 23.538 ms

Loss rate: 0.04%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 12:27:47

End at: 2018-05-22 12:28:17

Local clock offset: -6.724 ms

Remote clock offset: -5.508 ms

# Below is generated by plot.py at 2018-05-22 12:58:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.97 Mbit/s

95th percentile per-packet one-way delay: 20.110 ms

Loss rate: 0.05%

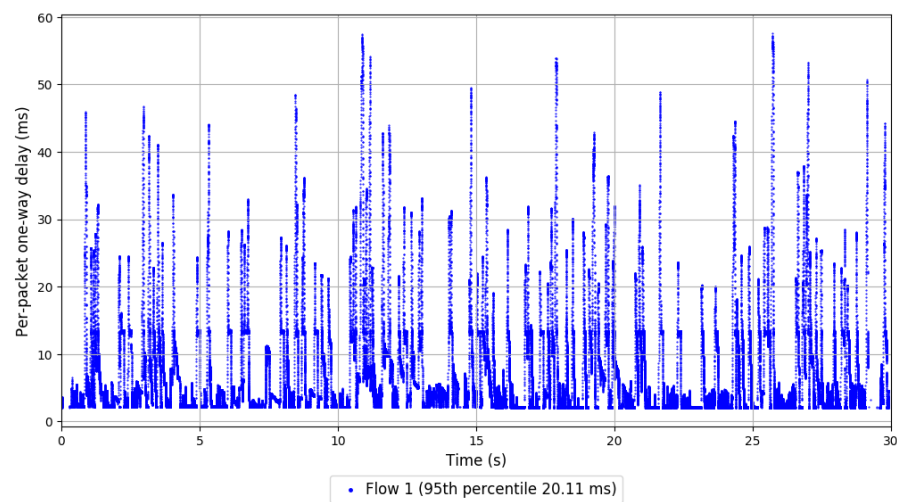
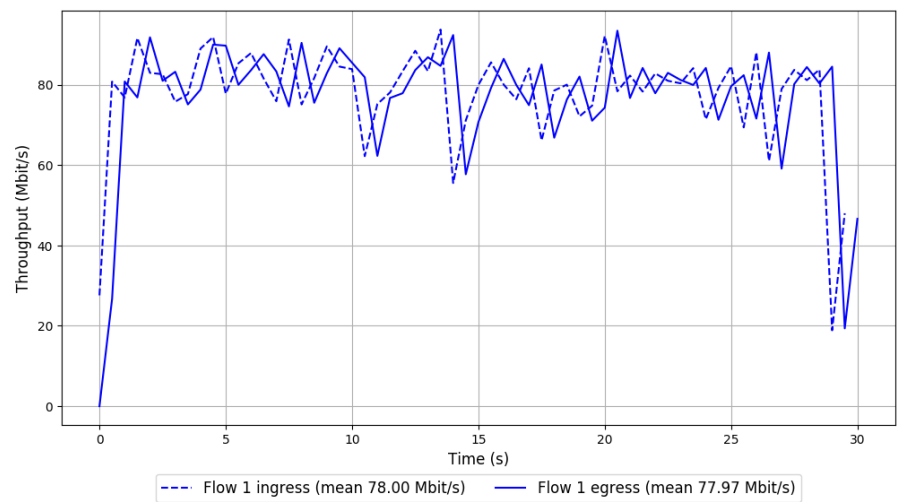
-- Flow 1:

Average throughput: 77.97 Mbit/s

95th percentile per-packet one-way delay: 20.110 ms

Loss rate: 0.05%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 12:45:29

End at: 2018-05-22 12:45:59

Local clock offset: -5.449 ms

Remote clock offset: -7.27 ms

# Below is generated by plot.py at 2018-05-22 12:59:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 6.664 ms

Loss rate: 0.02%

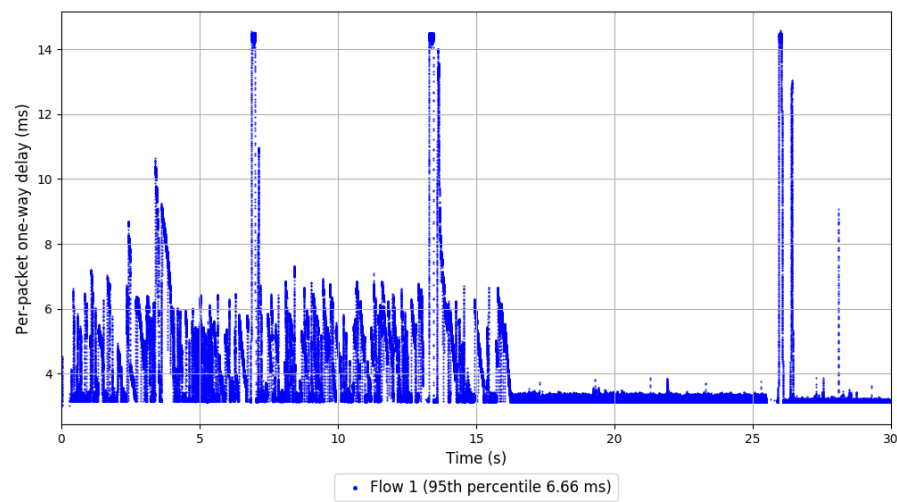
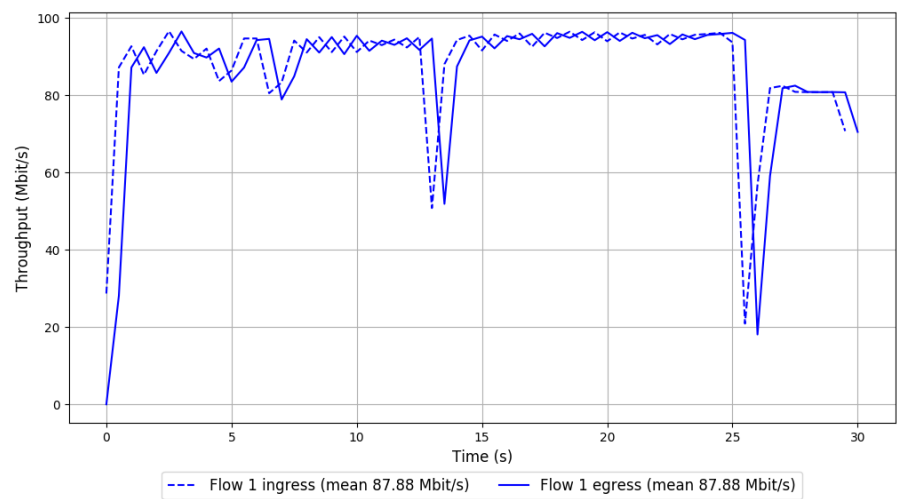
-- Flow 1:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 6.664 ms

Loss rate: 0.02%

Run 10: Report of QUIC Cubic — Data Link

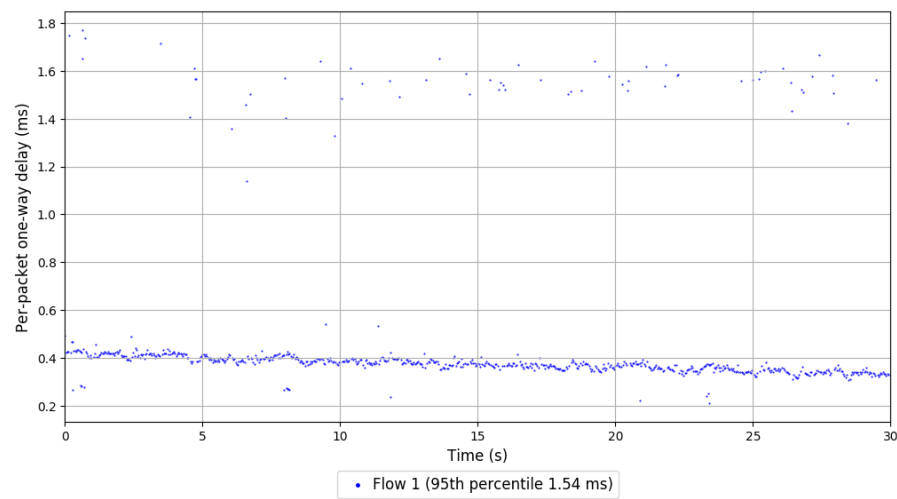
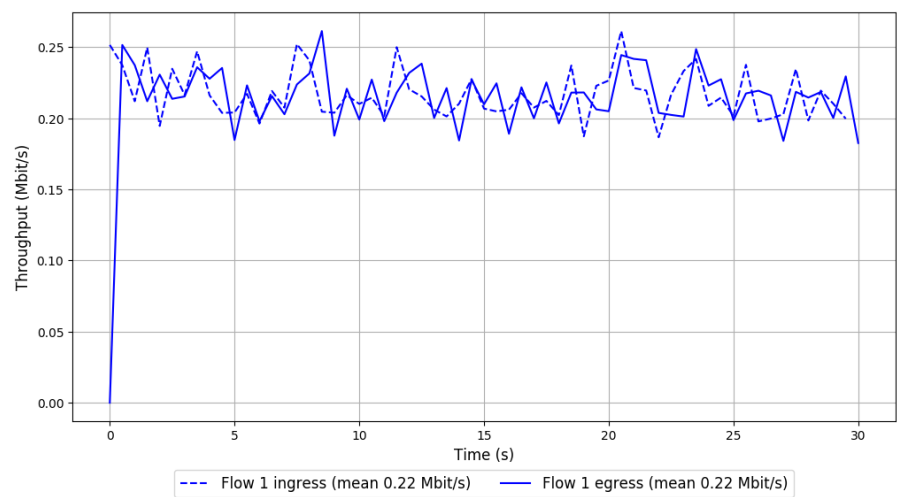


Run 1: Statistics of SCReAM

Start at: 2018-05-22 09:52:57  
End at: 2018-05-22 09:53:28  
Local clock offset: -0.466 ms  
Remote clock offset: -8.543 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.543 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.543 ms  
Loss rate: 0.13%

Run 1: Report of SReAM — Data Link

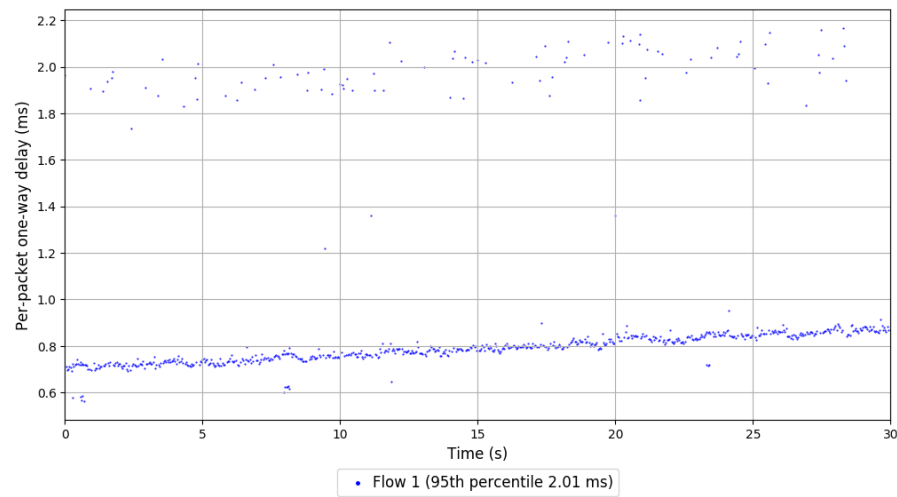
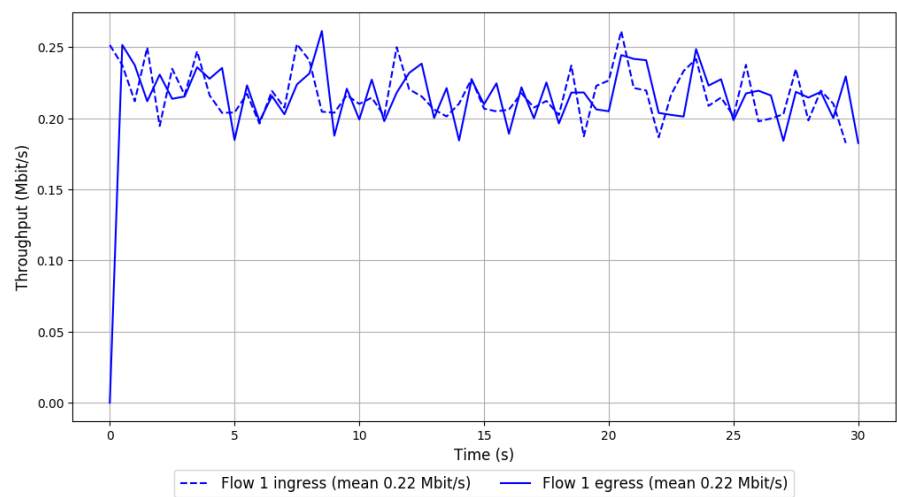


Run 2: Statistics of SCReAM

Start at: 2018-05-22 10:10:26  
End at: 2018-05-22 10:10:56  
Local clock offset: -5.379 ms  
Remote clock offset: -2.764 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.009 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.009 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

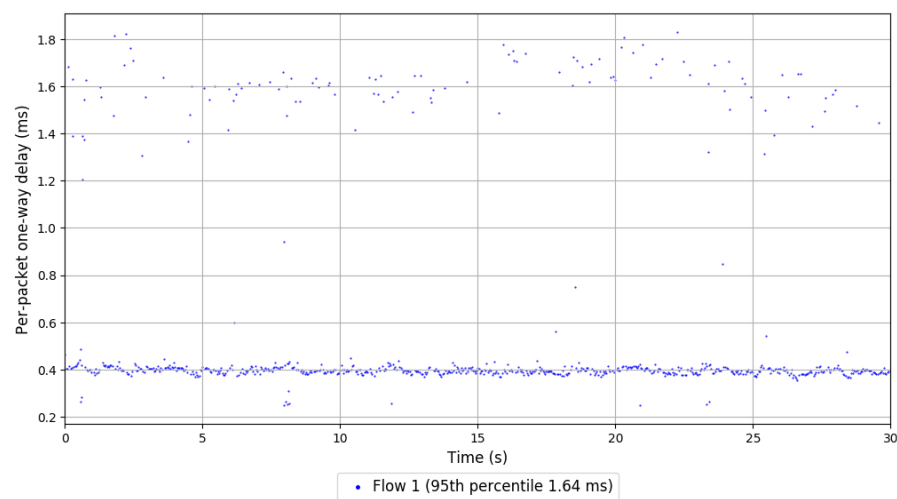
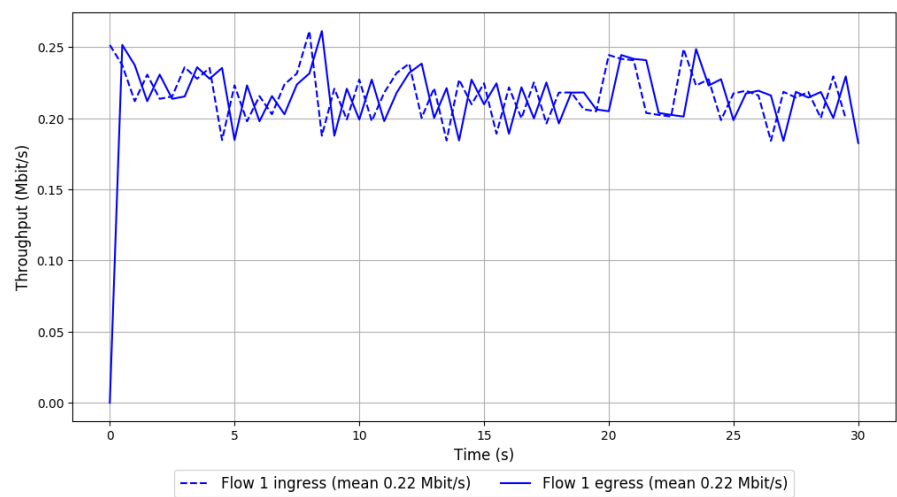


Run 3: Statistics of SCReAM

Start at: 2018-05-22 10:27:54  
End at: 2018-05-22 10:28:24  
Local clock offset: -6.748 ms  
Remote clock offset: -0.768 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.637 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.637 ms  
Loss rate: 0.13%

Run 3: Report of SReAM — Data Link

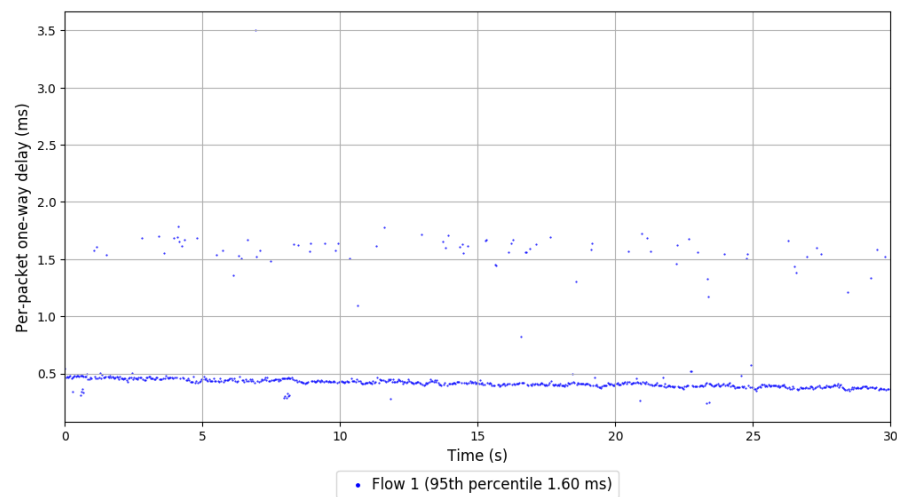
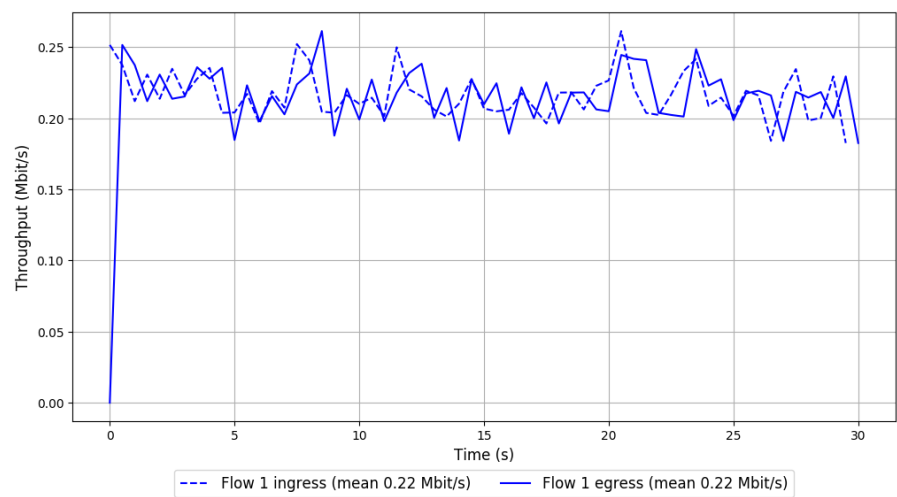


Run 4: Statistics of SCReAM

Start at: 2018-05-22 10:45:24  
End at: 2018-05-22 10:45:54  
Local clock offset: -6.274 ms  
Remote clock offset: -6.351 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.596 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.596 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

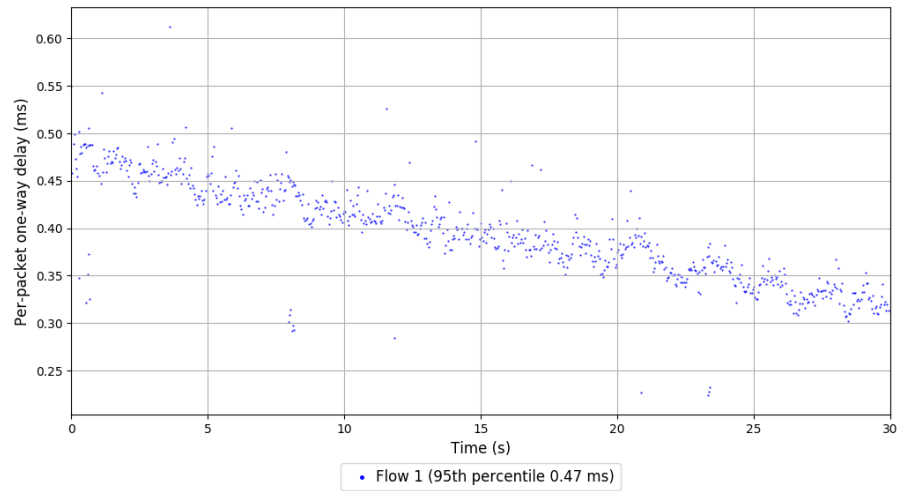
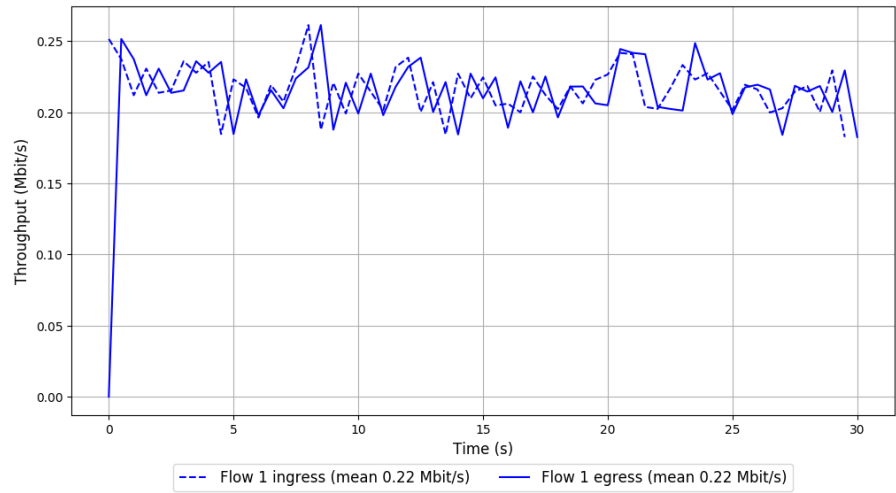


Run 5: Statistics of SCReAM

Start at: 2018-05-22 11:02:57  
End at: 2018-05-22 11:03:27  
Local clock offset: -4.089 ms  
Remote clock offset: -8.139 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.474 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.474 ms  
Loss rate: 0.00%

## Run 5: Report of SReAM — Data Link

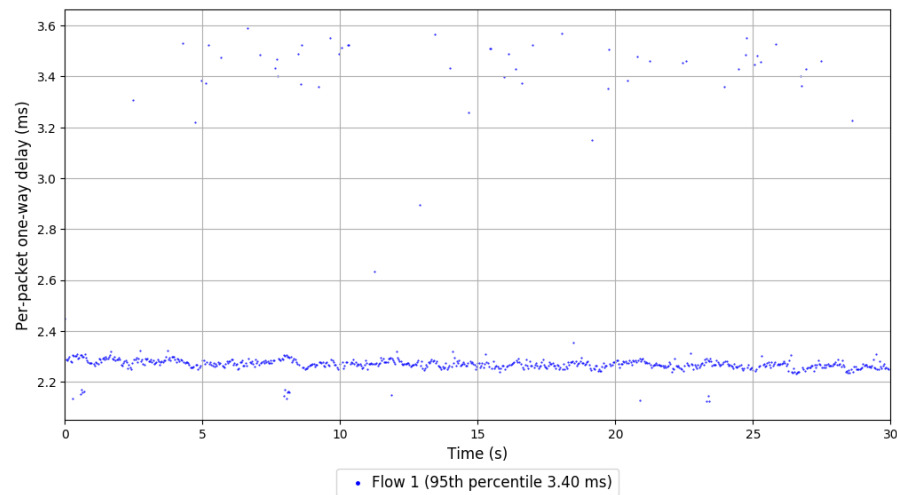
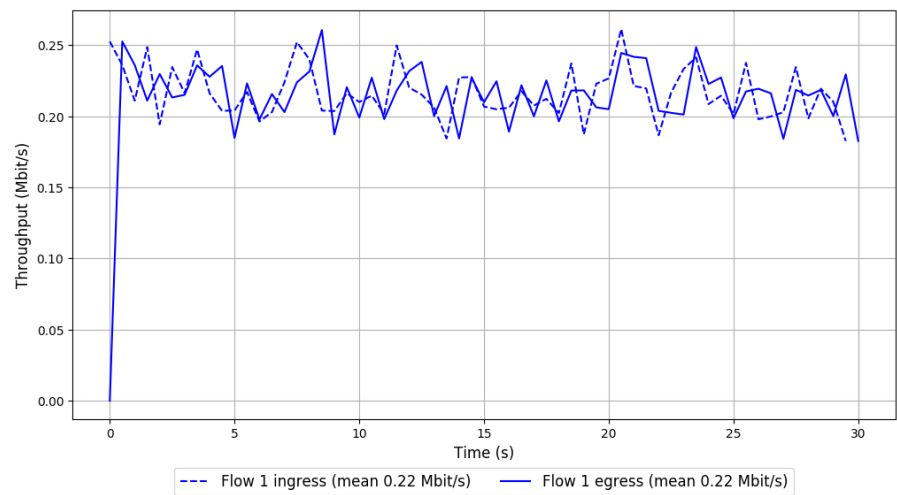


Run 6: Statistics of SCReAM

Start at: 2018-05-22 11:20:43  
End at: 2018-05-22 11:21:13  
Local clock offset: -1.692 ms  
Remote clock offset: -6.982 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.399 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.399 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

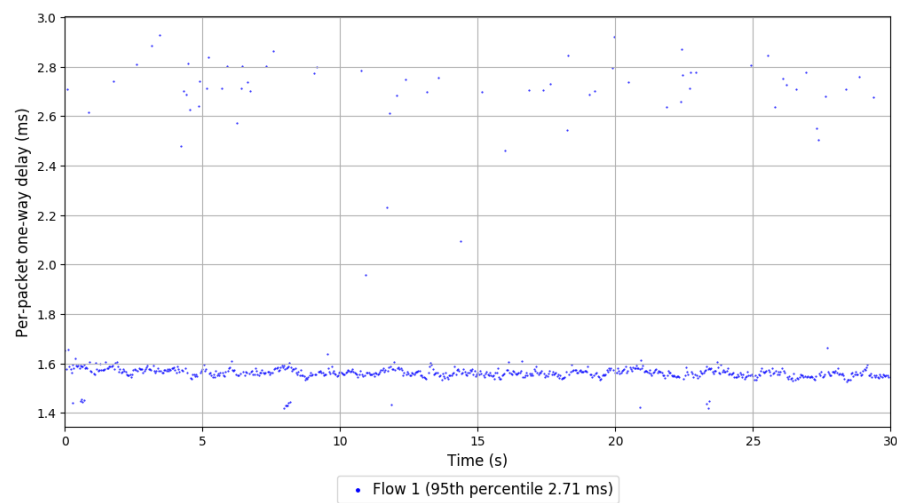
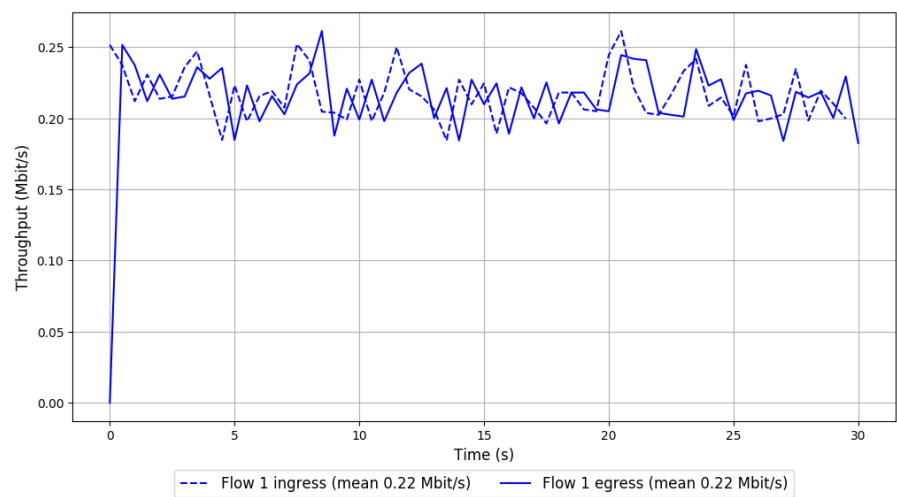


Run 7: Statistics of SCReAM

Start at: 2018-05-22 11:38:21  
End at: 2018-05-22 11:38:51  
Local clock offset: -1.887 ms  
Remote clock offset: -6.846 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.708 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.708 ms  
Loss rate: 0.13%

Run 7: Report of SReAM — Data Link

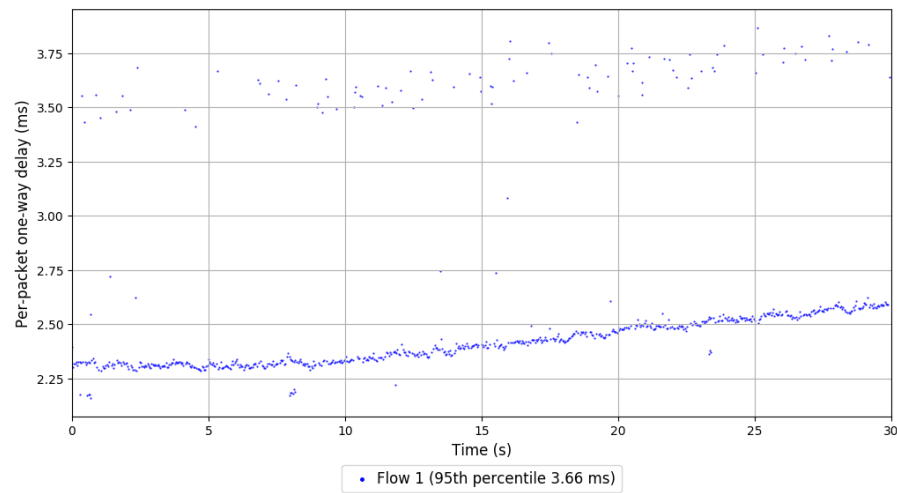
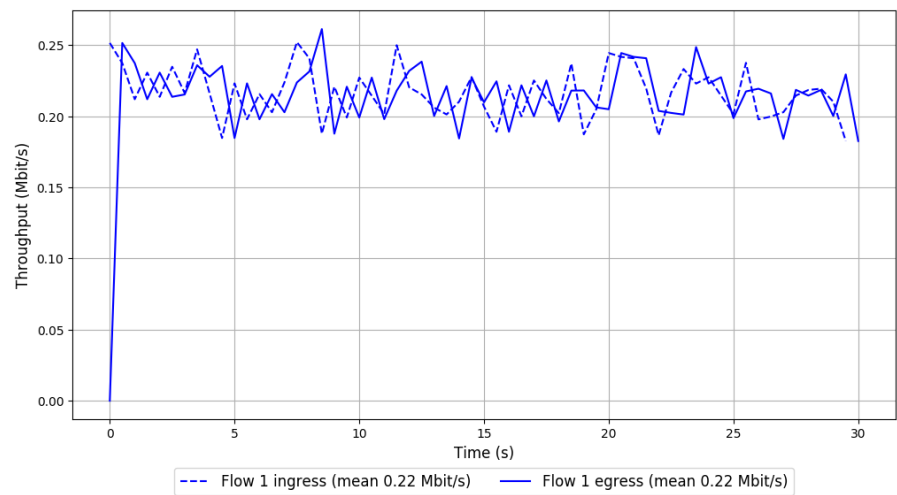


Run 8: Statistics of SCReAM

Start at: 2018-05-22 11:55:52  
End at: 2018-05-22 11:56:22  
Local clock offset: -0.547 ms  
Remote clock offset: -1.463 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.656 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.656 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-22 12:13:30

End at: 2018-05-22 12:14:00

Local clock offset: -6.499 ms

Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2018-05-22 12:59:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.629 ms

Loss rate: 0.00%

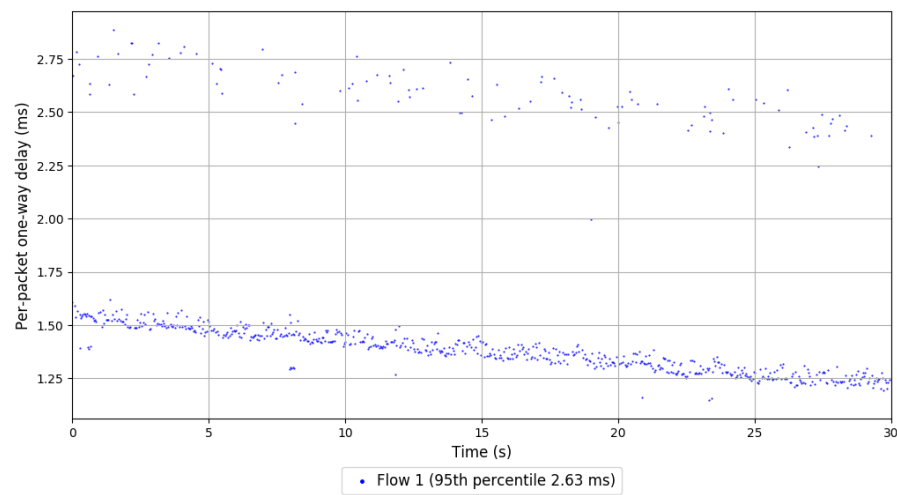
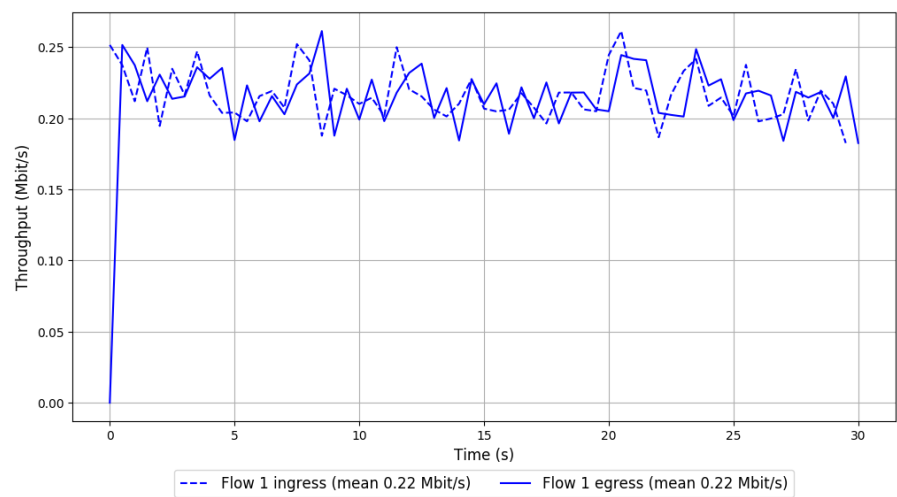
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.629 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

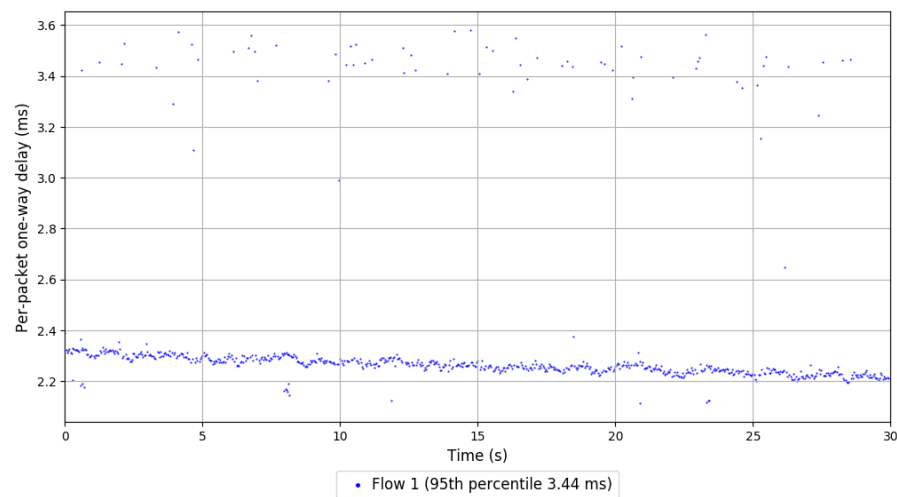
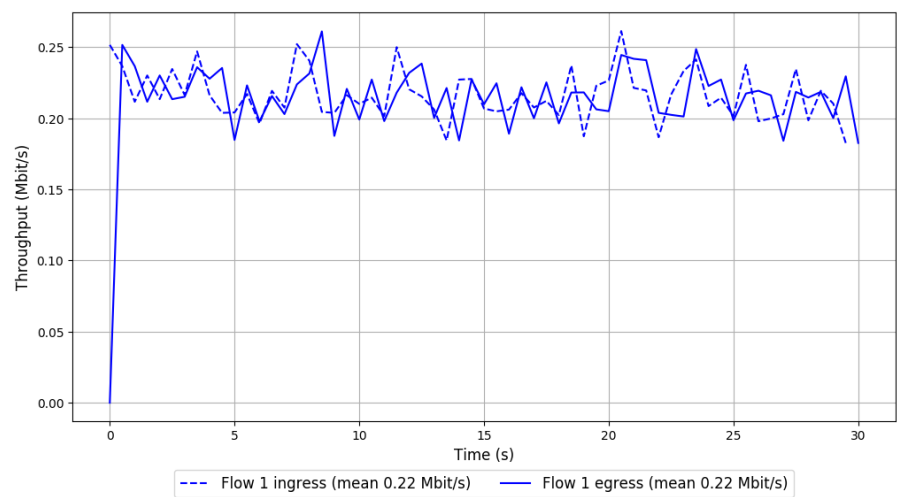


Run 10: Statistics of SReAM

Start at: 2018-05-22 12:31:05  
End at: 2018-05-22 12:31:35  
Local clock offset: -6.433 ms  
Remote clock offset: -6.063 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.443 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.443 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

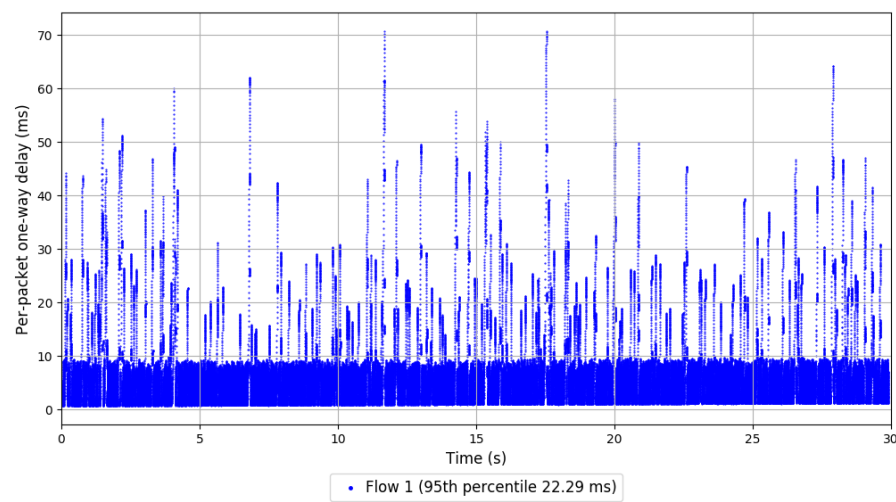
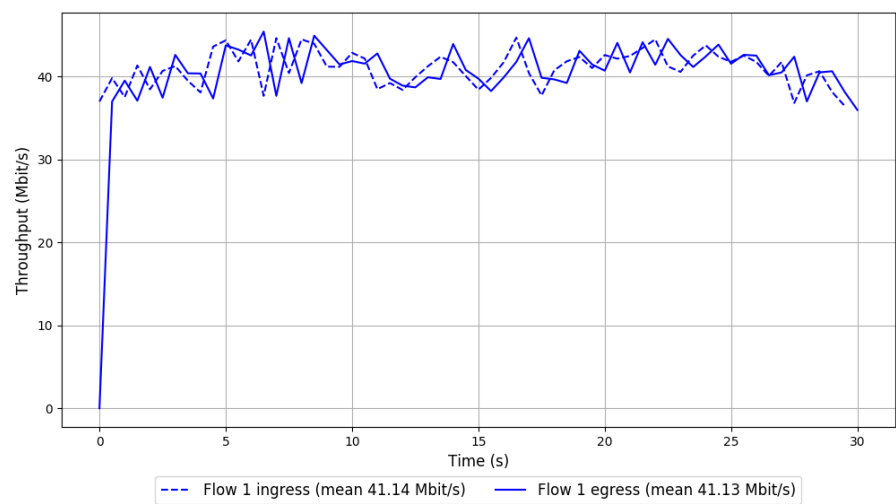


Run 1: Statistics of Sprout

Start at: 2018-05-22 09:59:27  
End at: 2018-05-22 09:59:57  
Local clock offset: -2.085 ms  
Remote clock offset: -6.964 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 41.13 Mbit/s  
95th percentile per-packet one-way delay: 22.287 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 41.13 Mbit/s  
95th percentile per-packet one-way delay: 22.287 ms  
Loss rate: 0.02%

Run 1: Report of Sprout — Data Link

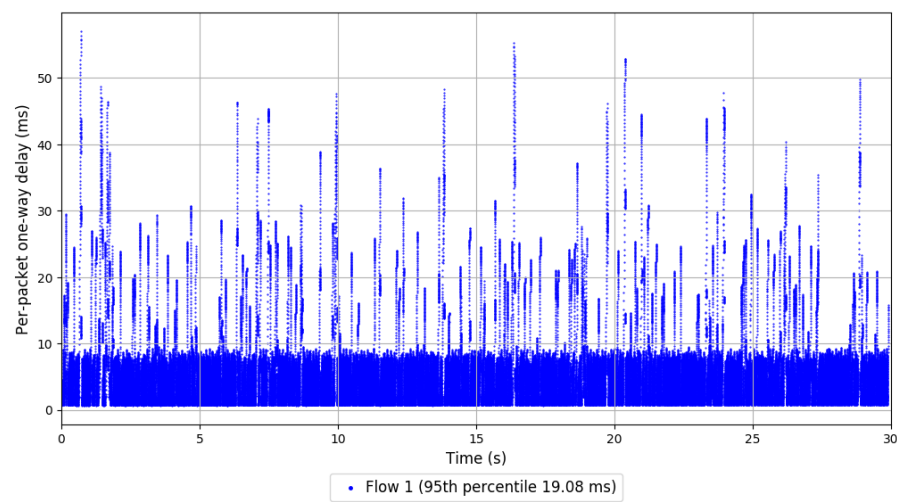
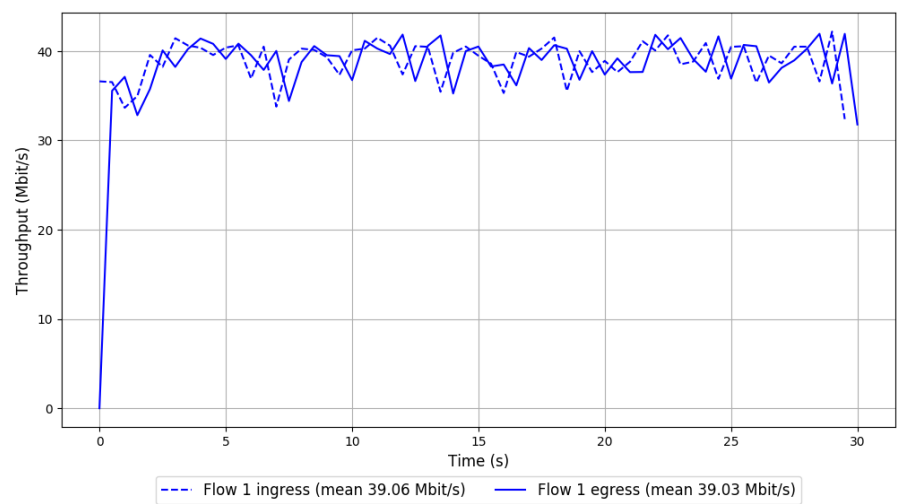


Run 2: Statistics of Sprout

Start at: 2018-05-22 10:16:54  
End at: 2018-05-22 10:17:24  
Local clock offset: -6.142 ms  
Remote clock offset: -1.848 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 39.03 Mbit/s  
95th percentile per-packet one-way delay: 19.082 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 39.03 Mbit/s  
95th percentile per-packet one-way delay: 19.082 ms  
Loss rate: 0.05%

Run 2: Report of Sprout — Data Link

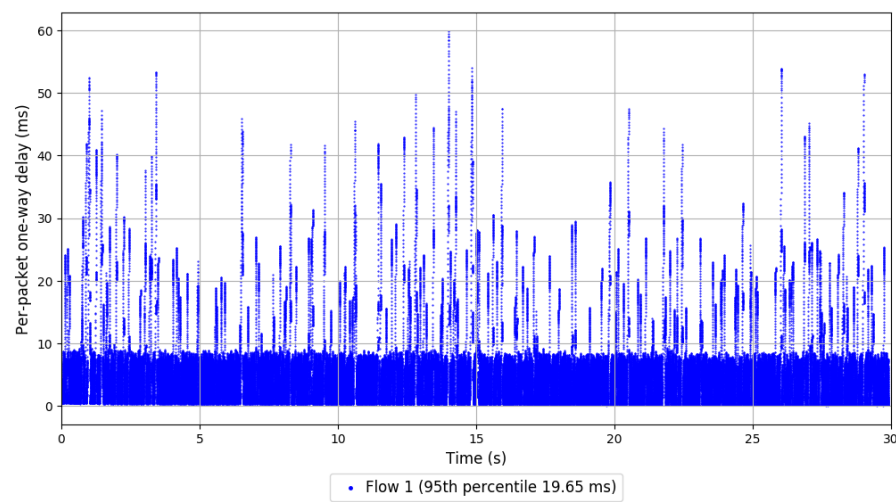
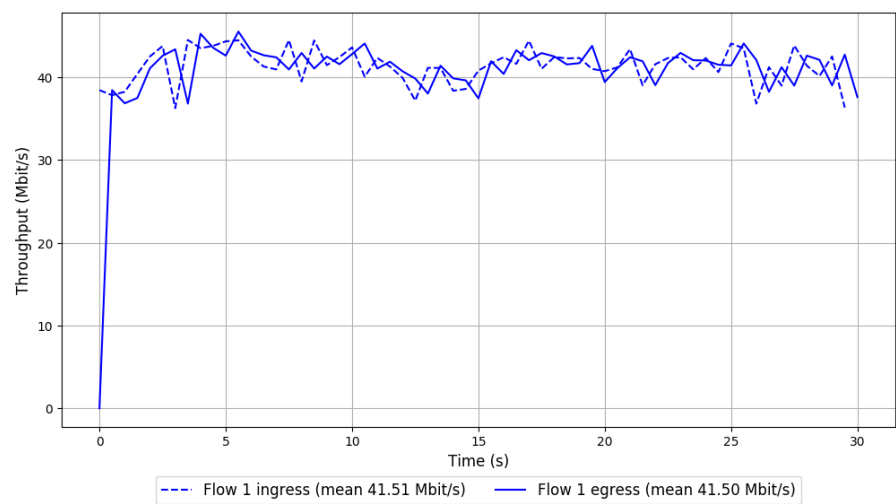


Run 3: Statistics of Sprout

Start at: 2018-05-22 10:34:23  
End at: 2018-05-22 10:34:53  
Local clock offset: -6.388 ms  
Remote clock offset: -2.793 ms

# Below is generated by plot.py at 2018-05-22 12:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 41.50 Mbit/s  
95th percentile per-packet one-way delay: 19.651 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 41.50 Mbit/s  
95th percentile per-packet one-way delay: 19.651 ms  
Loss rate: 0.01%

Run 3: Report of Sprout — Data Link

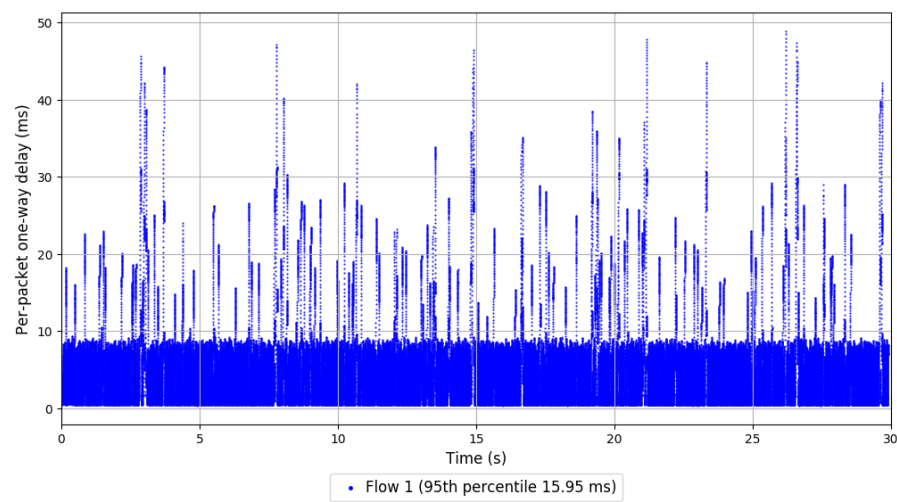
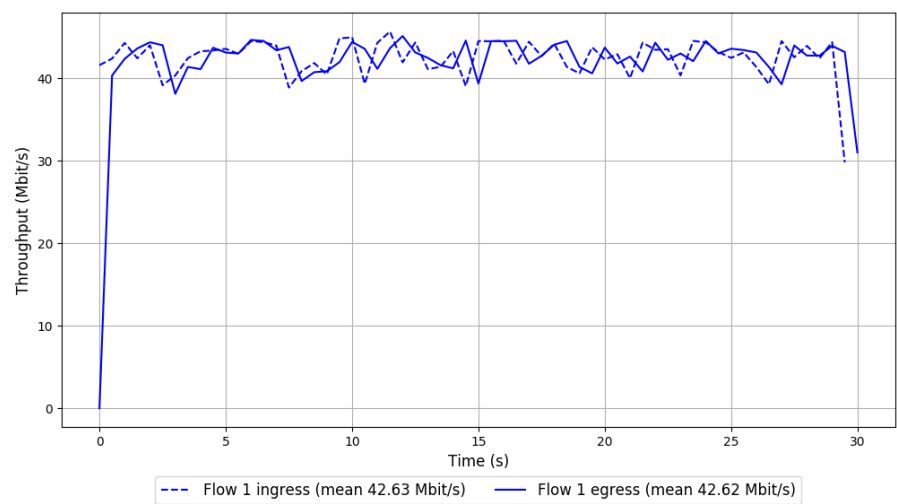


Run 4: Statistics of Sprout

Start at: 2018-05-22 10:51:54  
End at: 2018-05-22 10:52:24  
Local clock offset: -6.253 ms  
Remote clock offset: -7.269 ms

# Below is generated by plot.py at 2018-05-22 12:59:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 42.62 Mbit/s  
95th percentile per-packet one-way delay: 15.947 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 42.62 Mbit/s  
95th percentile per-packet one-way delay: 15.947 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

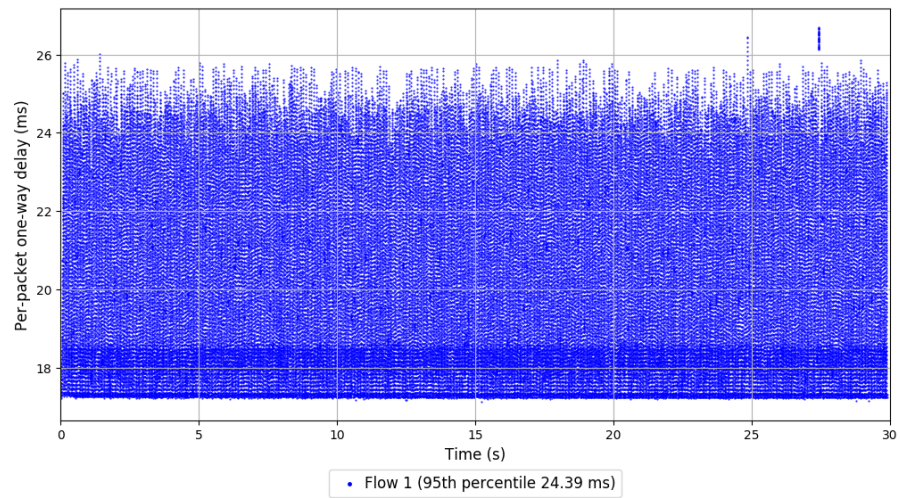
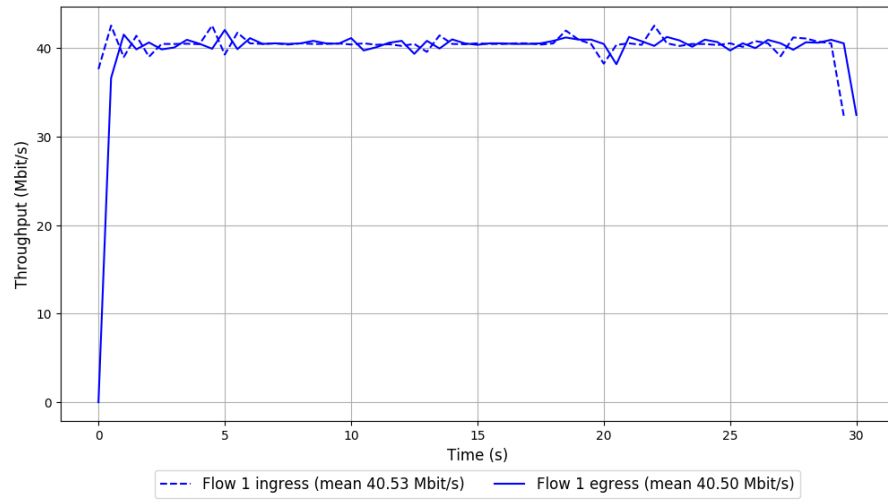


Run 5: Statistics of Sprout

Start at: 2018-05-22 11:09:30  
End at: 2018-05-22 11:10:00  
Local clock offset: 13.743 ms  
Remote clock offset: -7.748 ms

# Below is generated by plot.py at 2018-05-22 12:59:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.50 Mbit/s  
95th percentile per-packet one-way delay: 24.393 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 40.50 Mbit/s  
95th percentile per-packet one-way delay: 24.393 ms  
Loss rate: 0.08%

## Run 5: Report of Sprout — Data Link

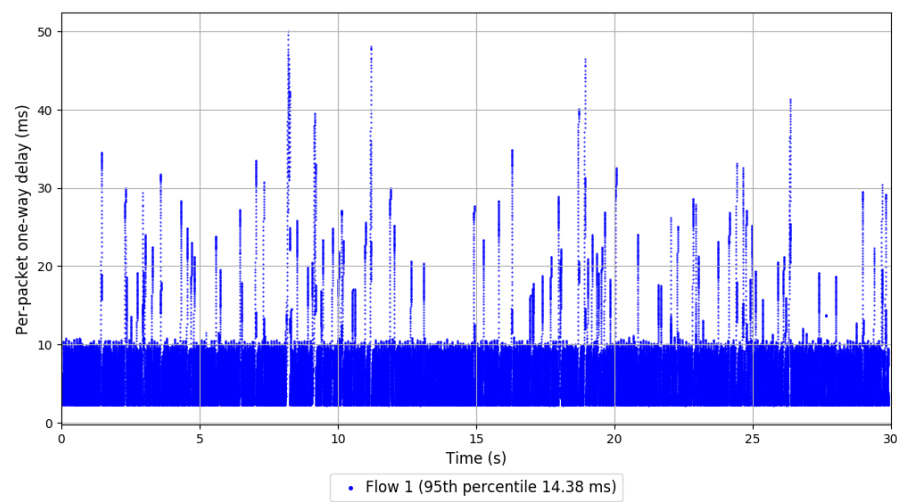
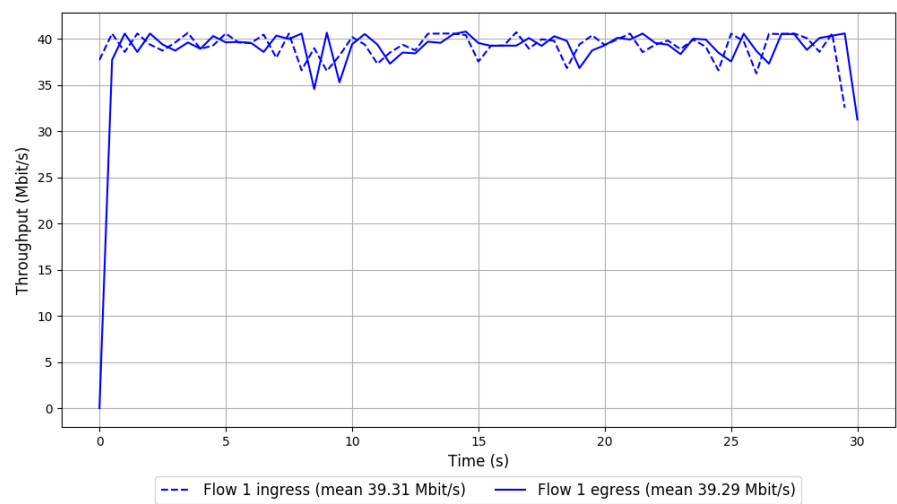


Run 6: Statistics of Sprout

Start at: 2018-05-22 11:27:16  
End at: 2018-05-22 11:27:46  
Local clock offset: -1.387 ms  
Remote clock offset: -6.885 ms

# Below is generated by plot.py at 2018-05-22 12:59:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 39.29 Mbit/s  
95th percentile per-packet one-way delay: 14.382 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 39.29 Mbit/s  
95th percentile per-packet one-way delay: 14.382 ms  
Loss rate: 0.06%

Run 6: Report of Sprout — Data Link

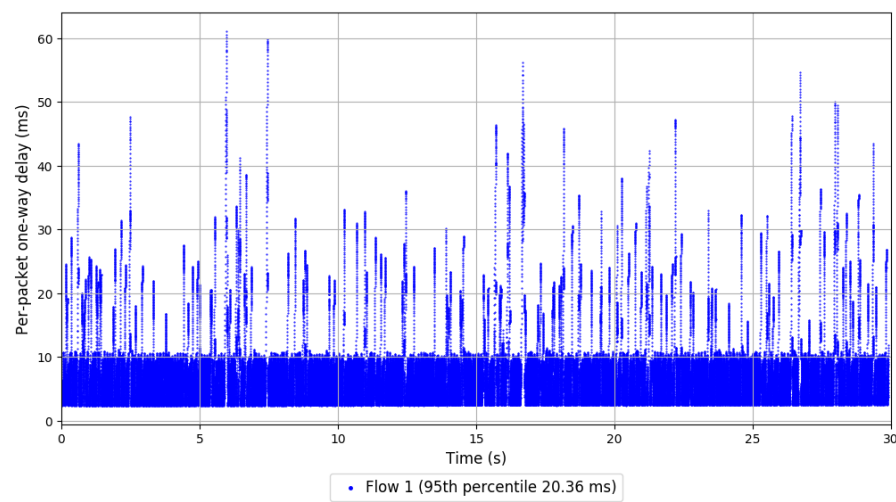
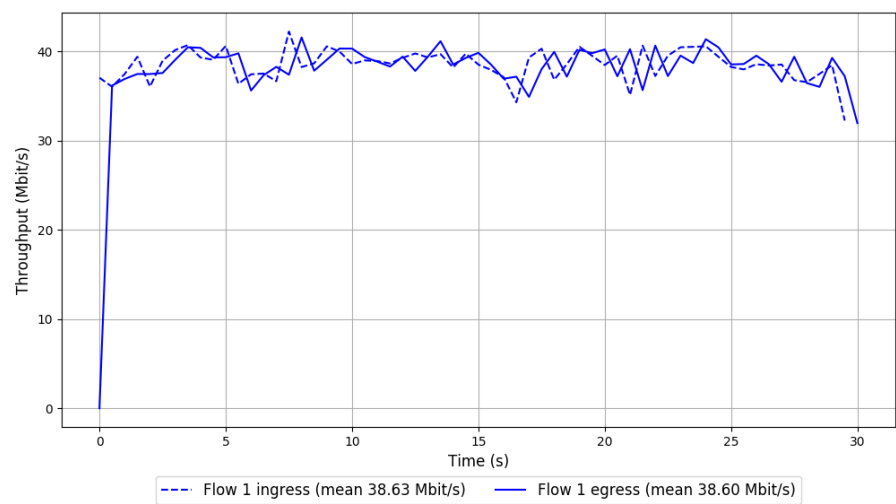


Run 7: Statistics of Sprout

Start at: 2018-05-22 11:44:50  
End at: 2018-05-22 11:45:20  
Local clock offset: -0.92 ms  
Remote clock offset: -4.161 ms

# Below is generated by plot.py at 2018-05-22 12:59:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 38.60 Mbit/s  
95th percentile per-packet one-way delay: 20.361 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 38.60 Mbit/s  
95th percentile per-packet one-way delay: 20.361 ms  
Loss rate: 0.07%

Run 7: Report of Sprout — Data Link

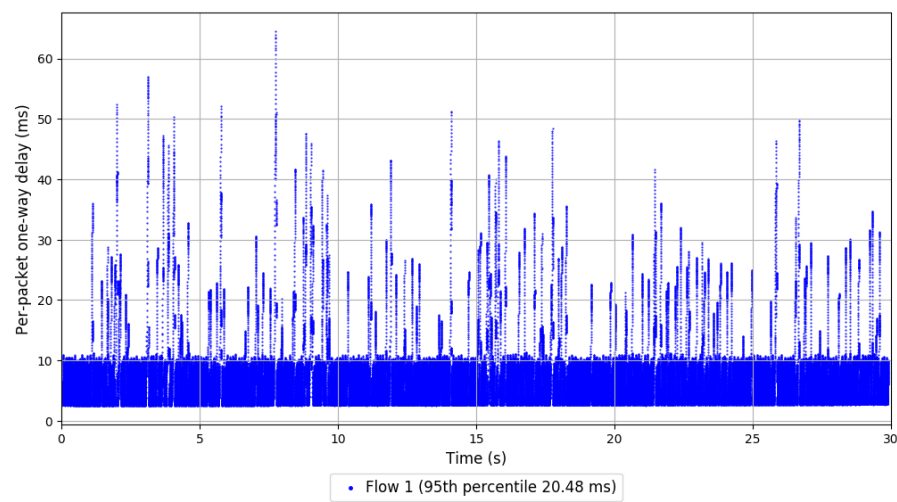
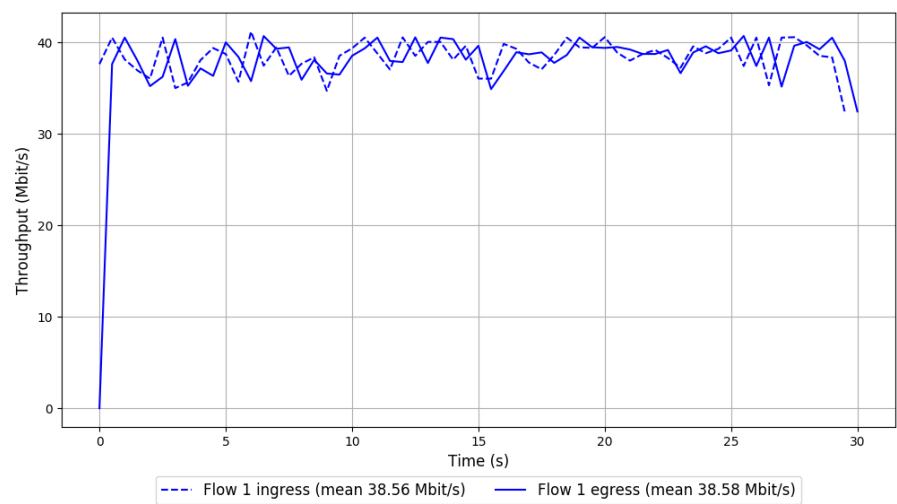


Run 8: Statistics of Sprout

Start at: 2018-05-22 12:02:28  
End at: 2018-05-22 12:02:58  
Local clock offset: -3.397 ms  
Remote clock offset: -0.659 ms

# Below is generated by plot.py at 2018-05-22 12:59:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 38.58 Mbit/s  
95th percentile per-packet one-way delay: 20.485 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 38.58 Mbit/s  
95th percentile per-packet one-way delay: 20.485 ms  
Loss rate: 0.01%

Run 8: Report of Sprout — Data Link

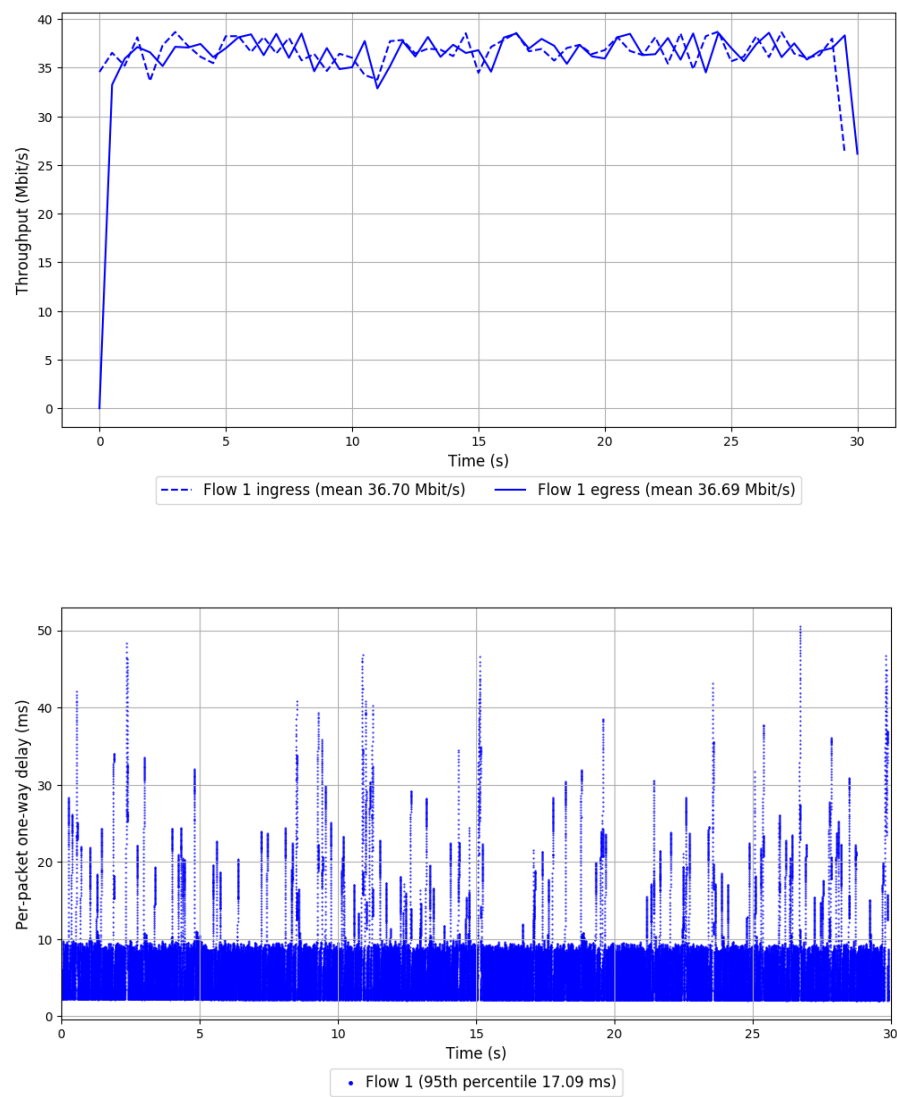


Run 9: Statistics of Sprout

Start at: 2018-05-22 12:20:04  
End at: 2018-05-22 12:20:34  
Local clock offset: -6.444 ms  
Remote clock offset: -3.431 ms

# Below is generated by plot.py at 2018-05-22 12:59:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 36.69 Mbit/s  
95th percentile per-packet one-way delay: 17.087 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 36.69 Mbit/s  
95th percentile per-packet one-way delay: 17.087 ms  
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

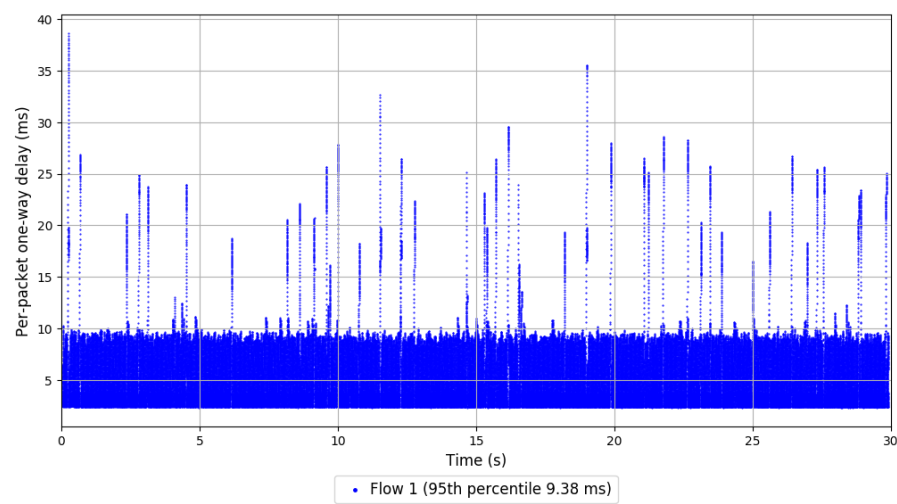
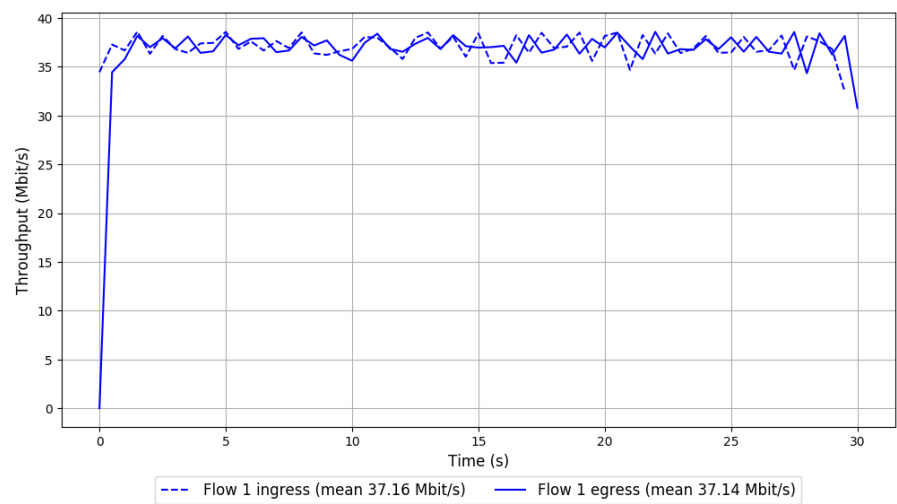


Run 10: Statistics of Sprout

Start at: 2018-05-22 12:37:39  
End at: 2018-05-22 12:38:09  
Local clock offset: -6.219 ms  
Remote clock offset: -6.809 ms

# Below is generated by plot.py at 2018-05-22 12:59:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 37.14 Mbit/s  
95th percentile per-packet one-way delay: 9.376 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 37.14 Mbit/s  
95th percentile per-packet one-way delay: 9.376 ms  
Loss rate: 0.07%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-22 09:58:22

End at: 2018-05-22 09:58:52

Local clock offset: -1.42 ms

Remote clock offset: -7.884 ms

# Below is generated by plot.py at 2018-05-22 12:59:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 10.916 ms

Loss rate: 0.01%

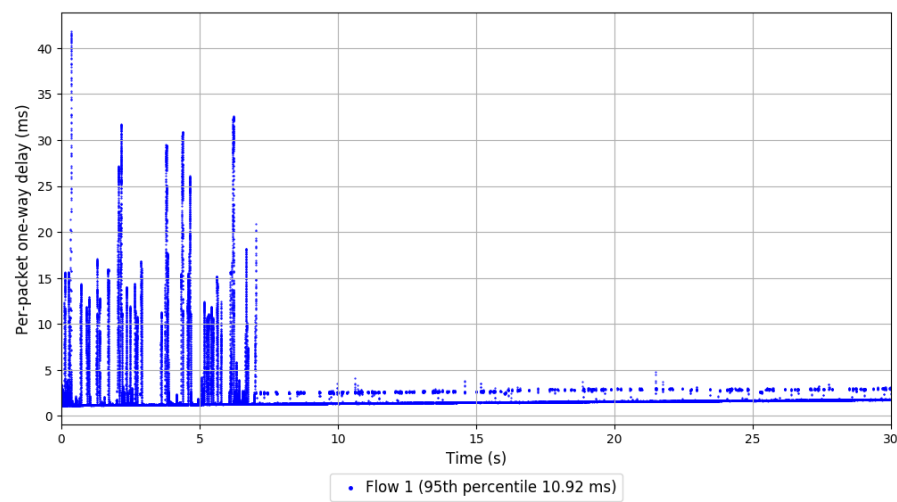
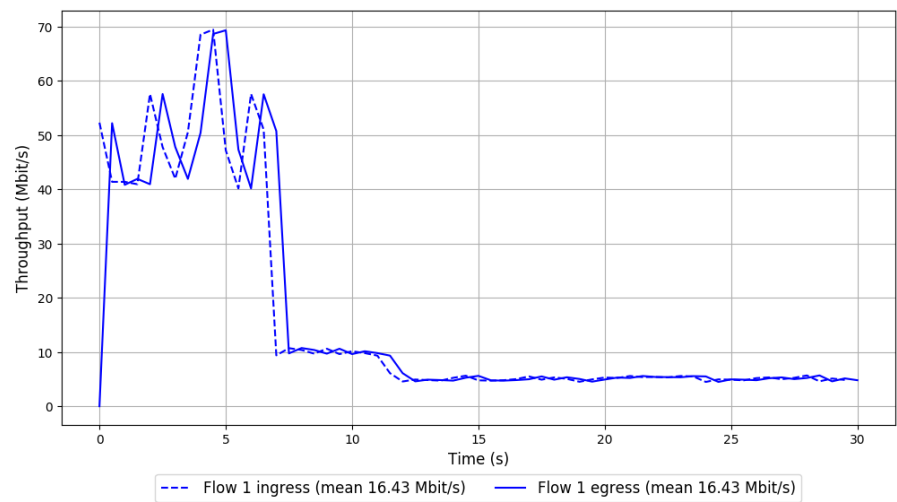
-- Flow 1:

Average throughput: 16.43 Mbit/s

95th percentile per-packet one-way delay: 10.916 ms

Loss rate: 0.01%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-22 10:15:51

End at: 2018-05-22 10:16:21

Local clock offset: -6.13 ms

Remote clock offset: -1.96 ms

# Below is generated by plot.py at 2018-05-22 12:59:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 1.783 ms

Loss rate: 0.01%

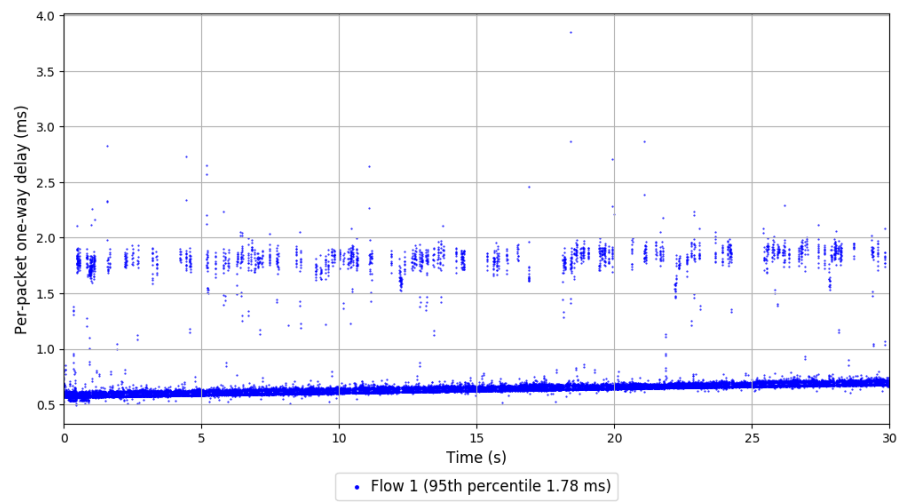
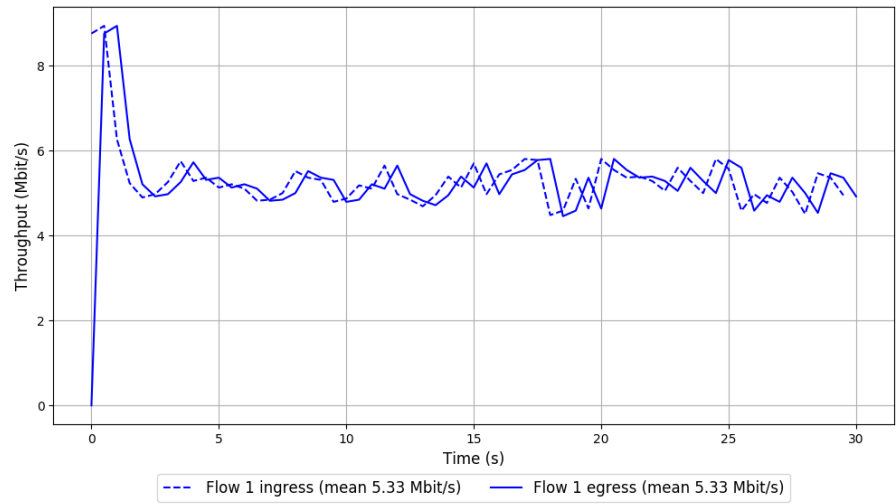
-- Flow 1:

Average throughput: 5.33 Mbit/s

95th percentile per-packet one-way delay: 1.783 ms

Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-22 10:33:18

End at: 2018-05-22 10:33:48

Local clock offset: -6.454 ms

Remote clock offset: -2.272 ms

# Below is generated by plot.py at 2018-05-22 12:59:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 18.03 Mbit/s

95th percentile per-packet one-way delay: 7.764 ms

Loss rate: 0.00%

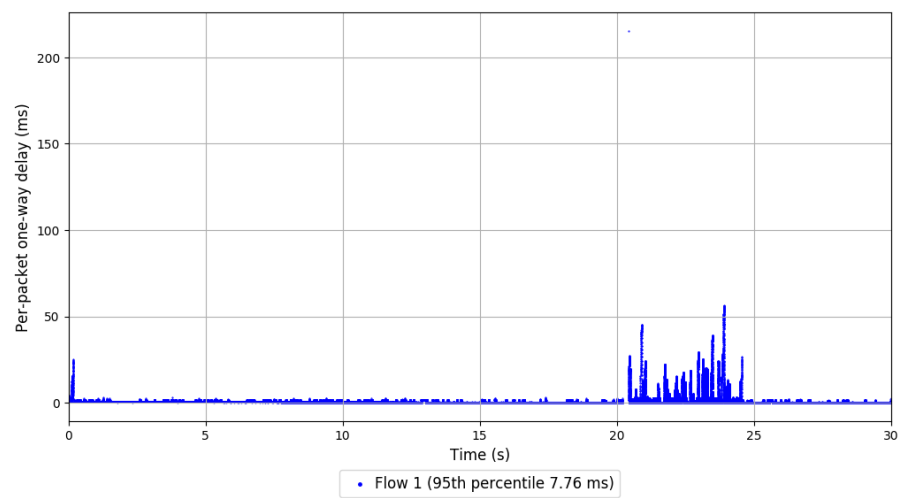
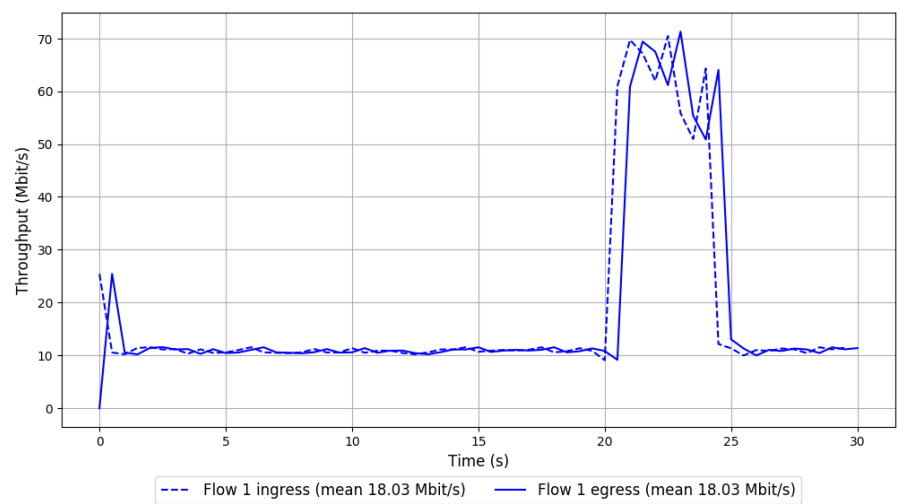
-- Flow 1:

Average throughput: 18.03 Mbit/s

95th percentile per-packet one-way delay: 7.764 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-22 10:50:48

End at: 2018-05-22 10:51:18

Local clock offset: -6.33 ms

Remote clock offset: -7.143 ms

# Below is generated by plot.py at 2018-05-22 13:00:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 10.983 ms

Loss rate: 0.01%

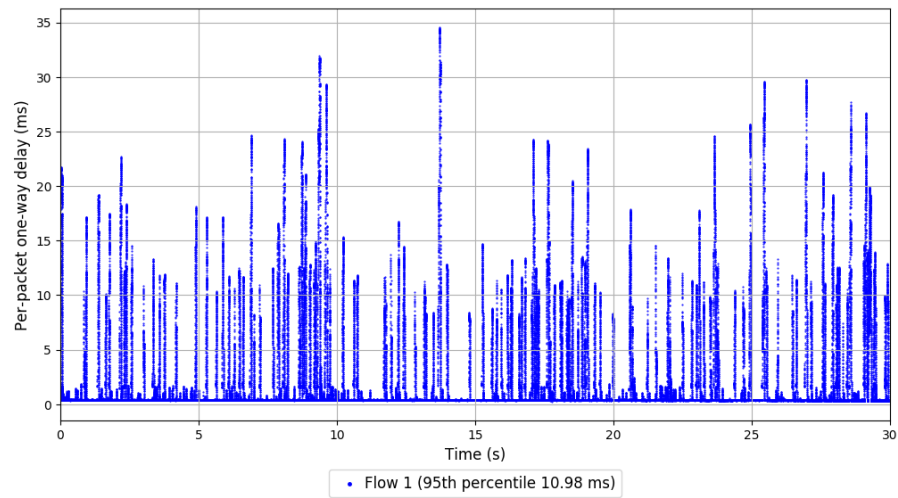
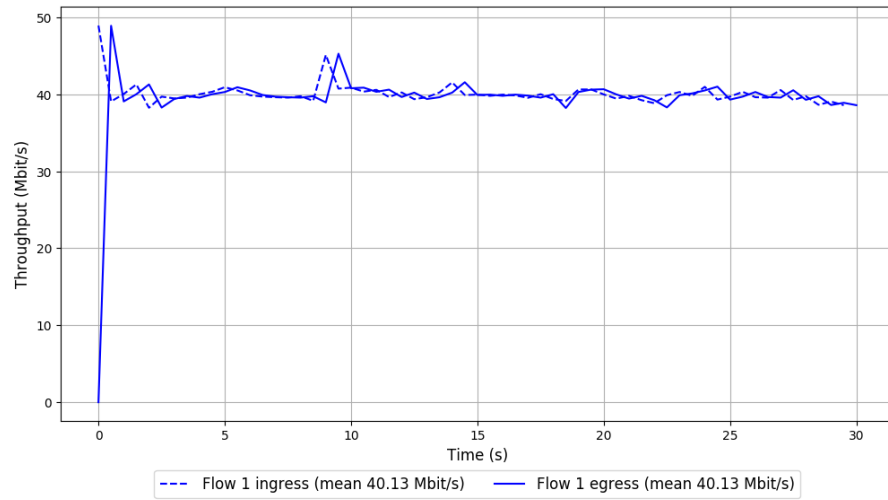
-- Flow 1:

Average throughput: 40.13 Mbit/s

95th percentile per-packet one-way delay: 10.983 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-22 11:08:24

End at: 2018-05-22 11:08:54

Local clock offset: -3.038 ms

Remote clock offset: -7.819 ms

# Below is generated by plot.py at 2018-05-22 13:00:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 0.440 ms

Loss rate: 0.01%

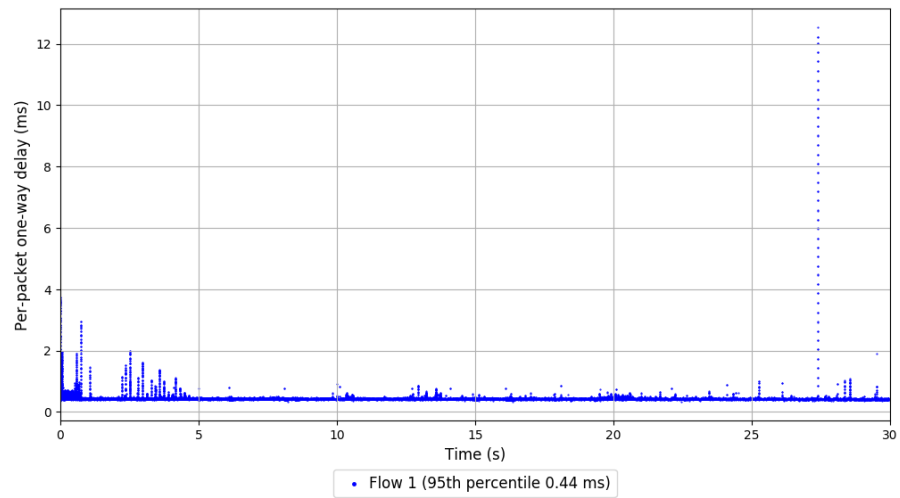
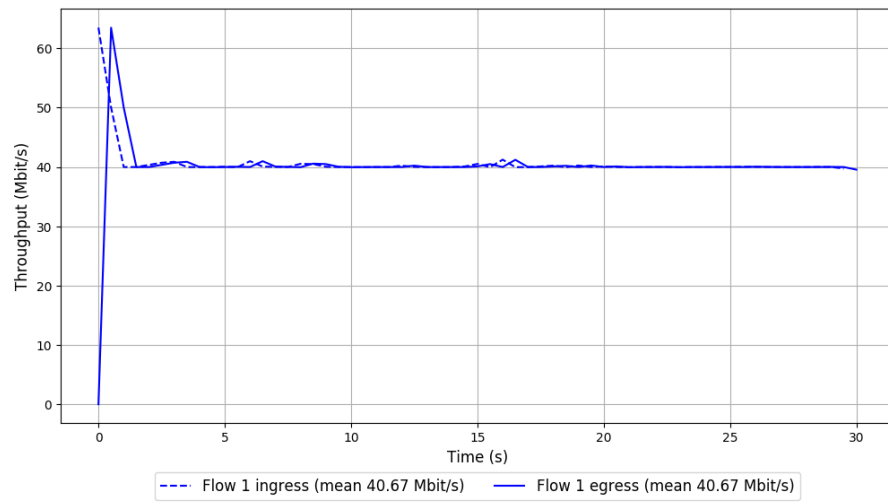
-- Flow 1:

Average throughput: 40.67 Mbit/s

95th percentile per-packet one-way delay: 0.440 ms

Loss rate: 0.01%

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

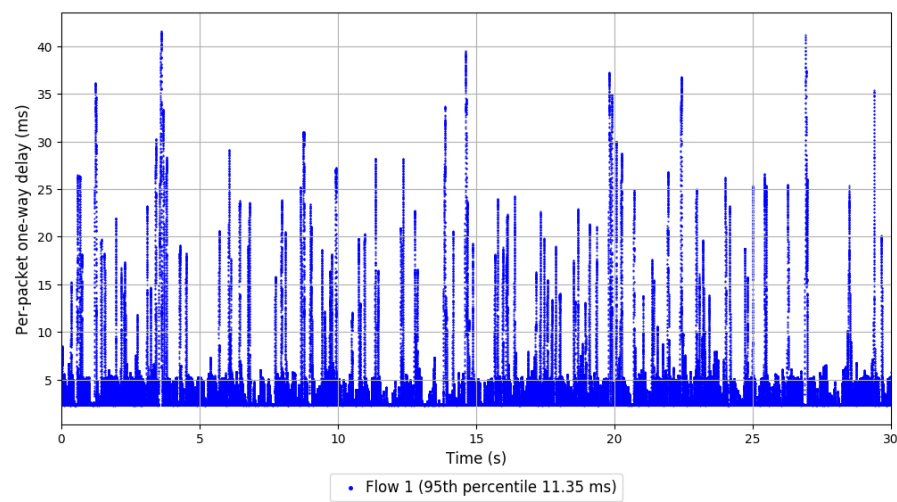
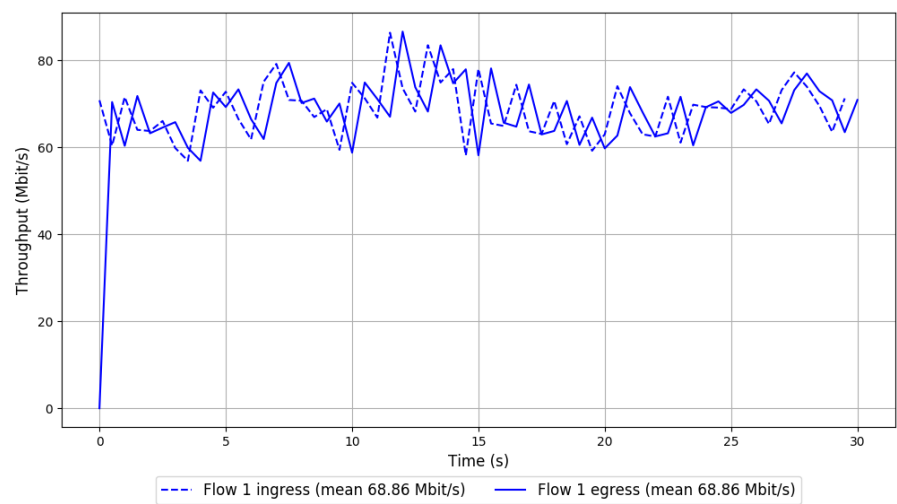


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-22 11:26:07  
End at: 2018-05-22 11:26:37  
Local clock offset: -1.348 ms  
Remote clock offset: -6.915 ms

# Below is generated by plot.py at 2018-05-22 13:00:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.86 Mbit/s  
95th percentile per-packet one-way delay: 11.350 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 68.86 Mbit/s  
95th percentile per-packet one-way delay: 11.350 ms  
Loss rate: 0.01%

Run 6: Report of TaoVA-100x — Data Link

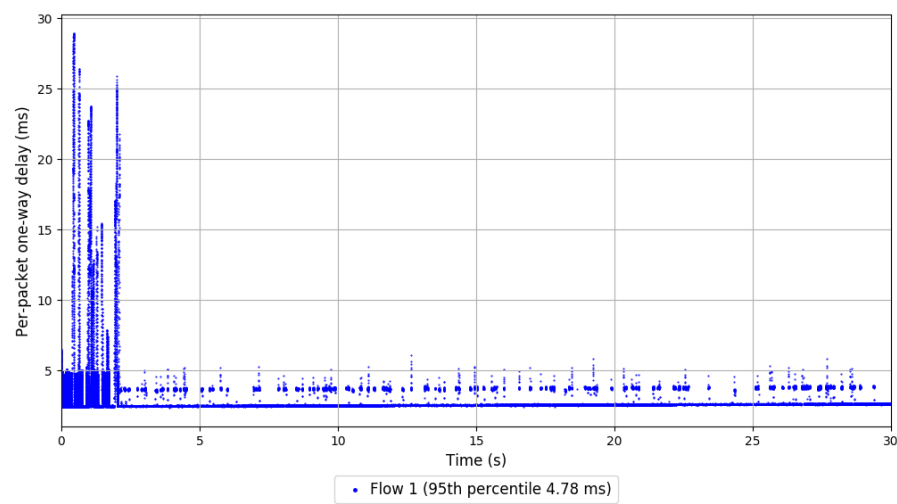
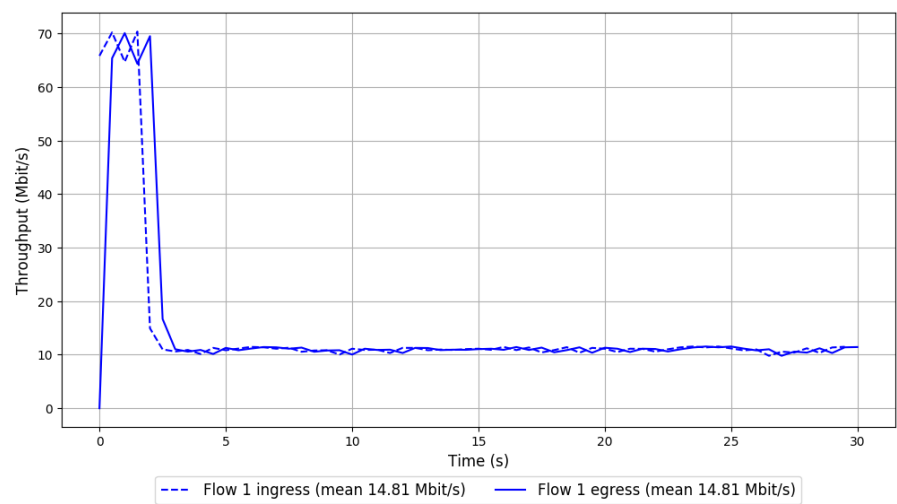


Run 7: Statistics of TaoVA-100x

Start at: 2018-05-22 11:43:46  
End at: 2018-05-22 11:44:16  
Local clock offset: -0.955 ms  
Remote clock offset: -4.598 ms

# Below is generated by plot.py at 2018-05-22 13:00:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 14.81 Mbit/s  
95th percentile per-packet one-way delay: 4.775 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 14.81 Mbit/s  
95th percentile per-packet one-way delay: 4.775 ms  
Loss rate: 0.01%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-22 12:01:19

End at: 2018-05-22 12:01:49

Local clock offset: -3.06 ms

Remote clock offset: -0.88 ms

# Below is generated by plot.py at 2018-05-22 13:01:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 14.469 ms

Loss rate: 0.02%

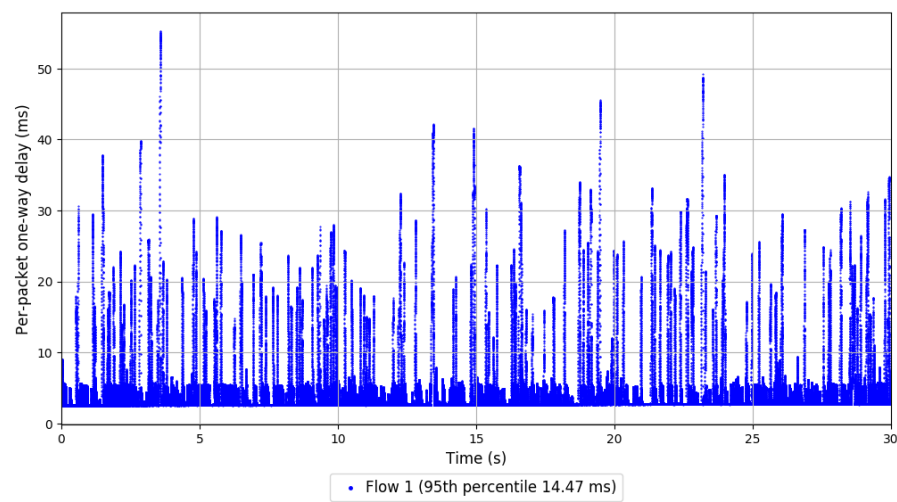
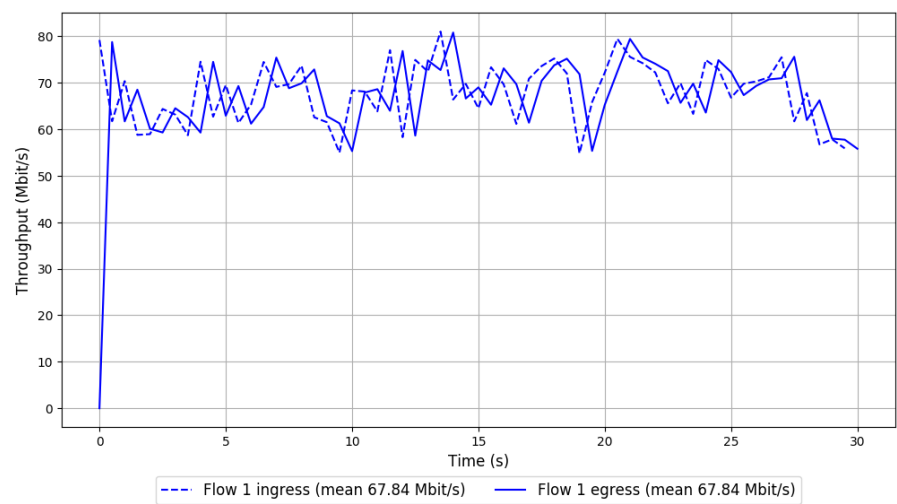
-- Flow 1:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 14.469 ms

Loss rate: 0.02%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 12:18:55

End at: 2018-05-22 12:19:25

Local clock offset: -7.121 ms

Remote clock offset: -2.97 ms

# Below is generated by plot.py at 2018-05-22 13:01:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 10.420 ms

Loss rate: 0.03%

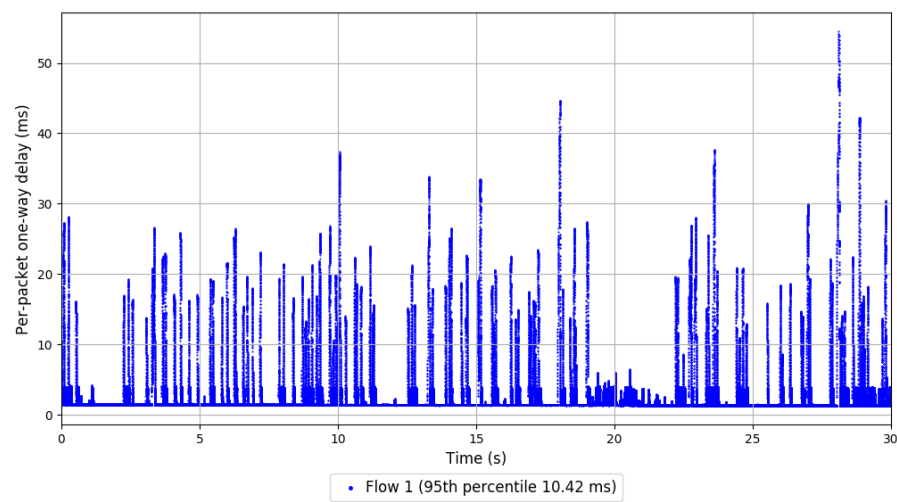
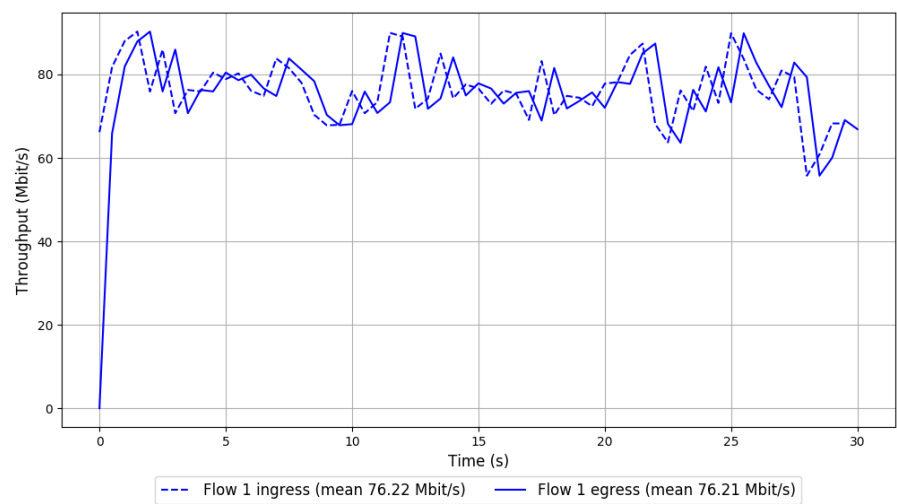
-- Flow 1:

Average throughput: 76.21 Mbit/s

95th percentile per-packet one-way delay: 10.420 ms

Loss rate: 0.03%

Run 9: Report of TaoVA-100x — Data Link

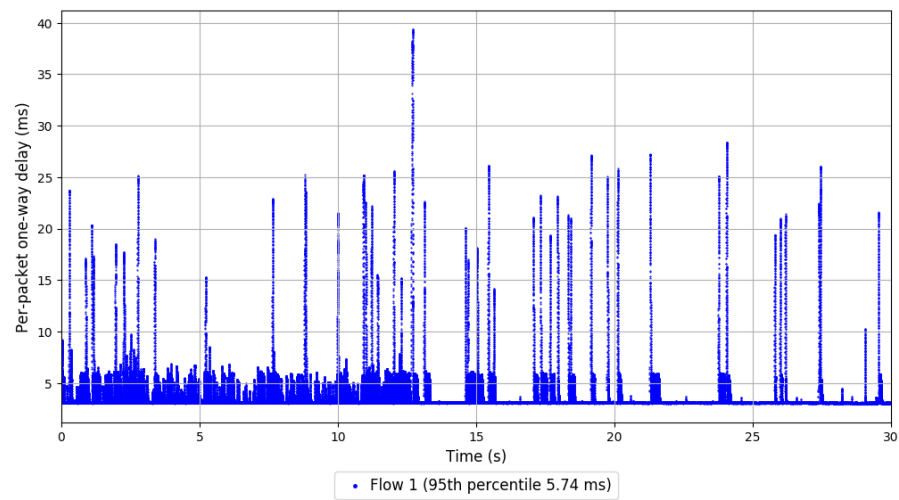
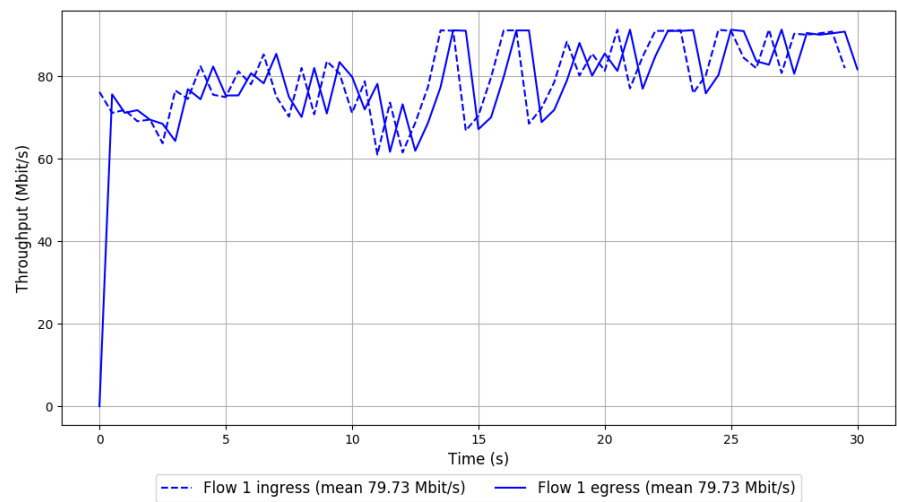


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 12:36:29  
End at: 2018-05-22 12:36:59  
Local clock offset: -5.471 ms  
Remote clock offset: -6.636 ms

# Below is generated by plot.py at 2018-05-22 13:01:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.73 Mbit/s  
95th percentile per-packet one-way delay: 5.744 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 79.73 Mbit/s  
95th percentile per-packet one-way delay: 5.744 ms  
Loss rate: 0.02%

Run 10: Report of TaoVA-100x — Data Link

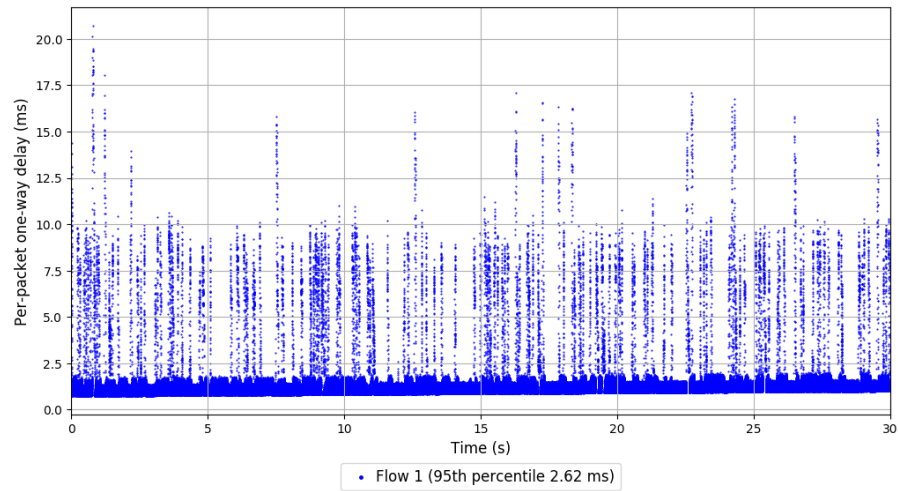
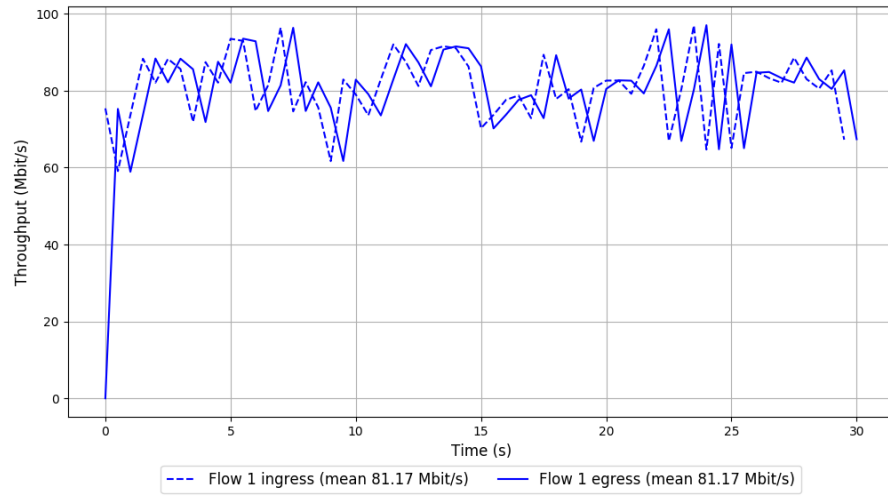


Run 1: Statistics of TCP Vegas

Start at: 2018-05-22 10:06:03  
End at: 2018-05-22 10:06:33  
Local clock offset: -4.446 ms  
Remote clock offset: -3.981 ms

# Below is generated by plot.py at 2018-05-22 13:01:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.17 Mbit/s  
95th percentile per-packet one-way delay: 2.620 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 81.17 Mbit/s  
95th percentile per-packet one-way delay: 2.620 ms  
Loss rate: 0.00%

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

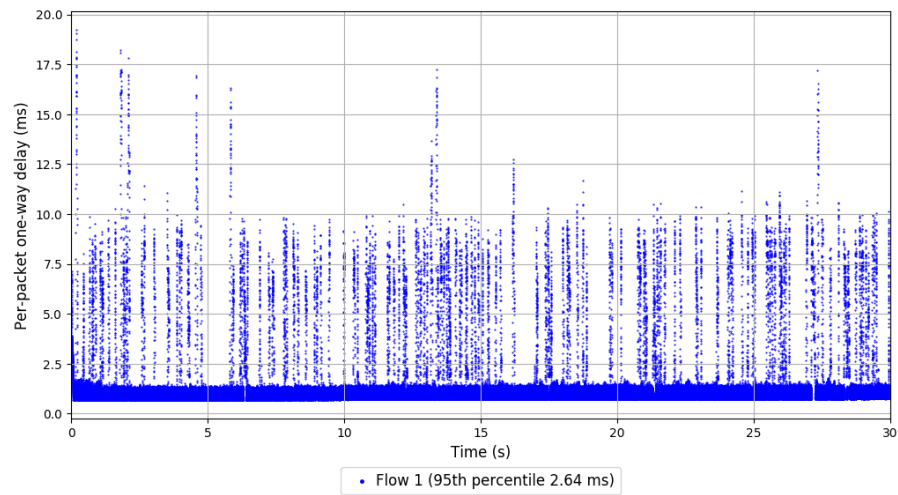
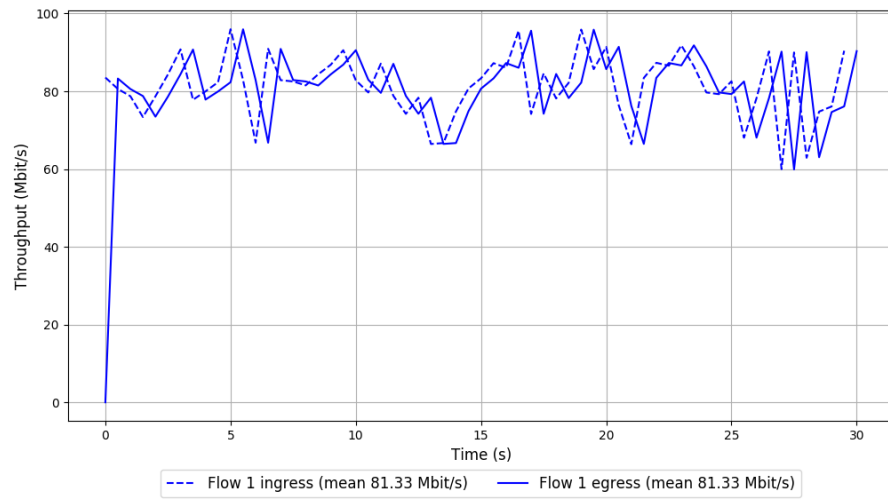


Run 2: Statistics of TCP Vegas

Start at: 2018-05-22 10:23:30  
End at: 2018-05-22 10:24:00  
Local clock offset: -6.639 ms  
Remote clock offset: -1.068 ms

# Below is generated by plot.py at 2018-05-22 13:01:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.33 Mbit/s  
95th percentile per-packet one-way delay: 2.641 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 81.33 Mbit/s  
95th percentile per-packet one-way delay: 2.641 ms  
Loss rate: 0.01%

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

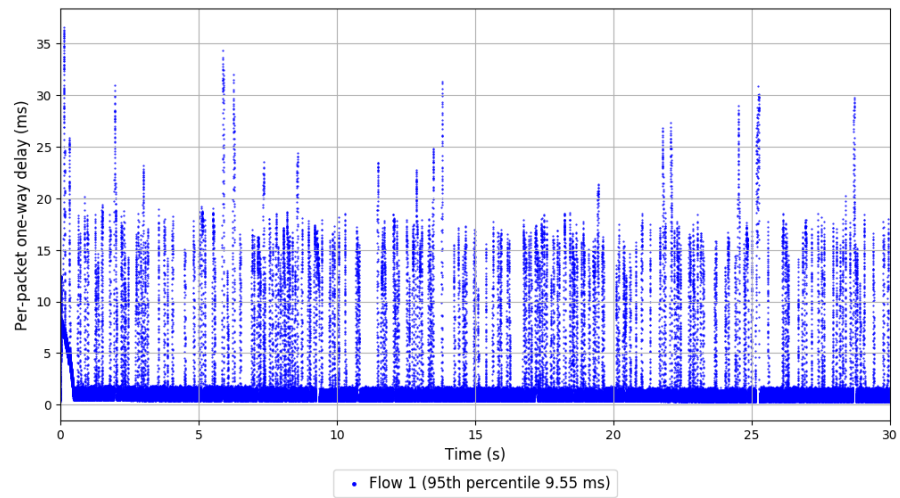
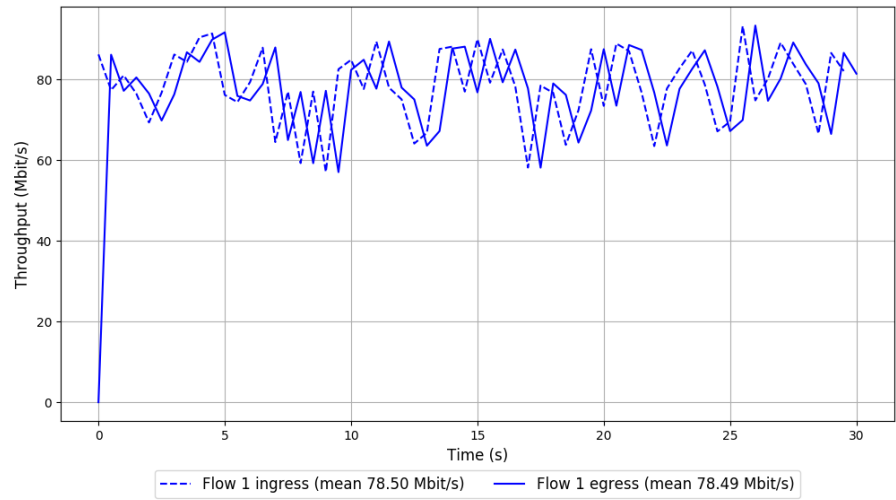


Run 3: Statistics of TCP Vegas

Start at: 2018-05-22 10:41:00  
End at: 2018-05-22 10:41:30  
Local clock offset: -6.213 ms  
Remote clock offset: -5.327 ms

# Below is generated by plot.py at 2018-05-22 13:01:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.49 Mbit/s  
95th percentile per-packet one-way delay: 9.552 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 78.49 Mbit/s  
95th percentile per-packet one-way delay: 9.552 ms  
Loss rate: 0.02%

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

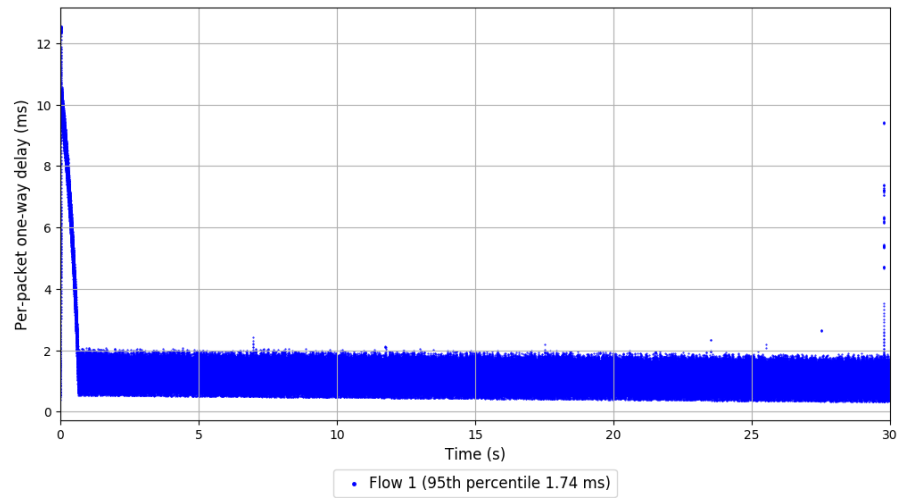
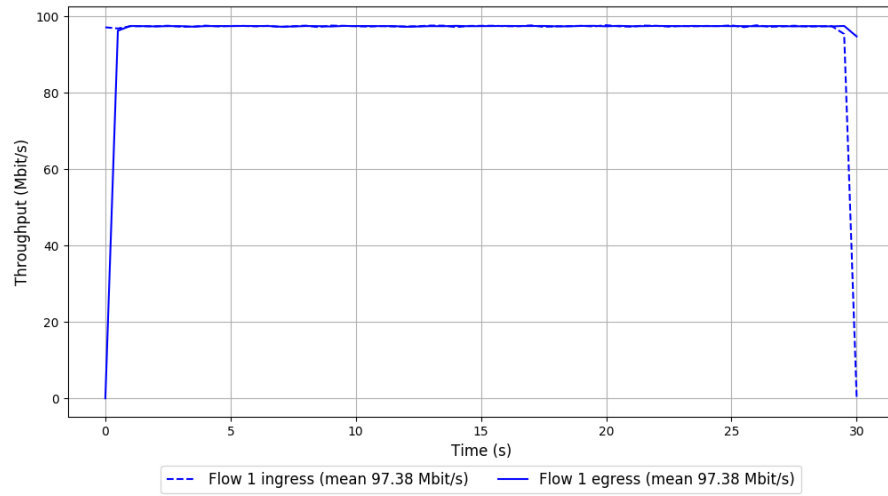


Run 4: Statistics of TCP Vegas

Start at: 2018-05-22 10:58:32  
End at: 2018-05-22 10:59:02  
Local clock offset: -5.413 ms  
Remote clock offset: -7.907 ms

# Below is generated by plot.py at 2018-05-22 13:01:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.38 Mbit/s  
95th percentile per-packet one-way delay: 1.741 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.38 Mbit/s  
95th percentile per-packet one-way delay: 1.741 ms  
Loss rate: 0.01%

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

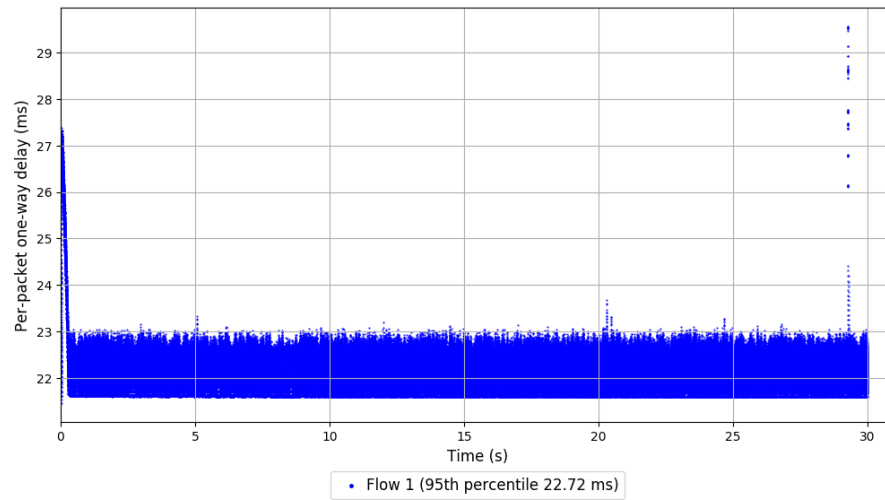
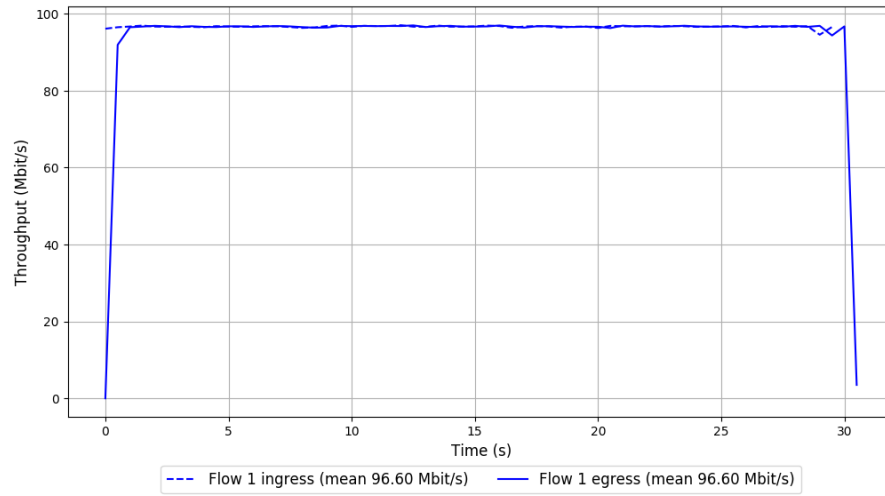


Run 5: Statistics of TCP Vegas

Start at: 2018-05-22 11:16:14  
End at: 2018-05-22 11:16:44  
Local clock offset: 18.969 ms  
Remote clock offset: -7.197 ms

# Below is generated by plot.py at 2018-05-22 13:01:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.60 Mbit/s  
95th percentile per-packet one-way delay: 22.724 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.60 Mbit/s  
95th percentile per-packet one-way delay: 22.724 ms  
Loss rate: 0.01%

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

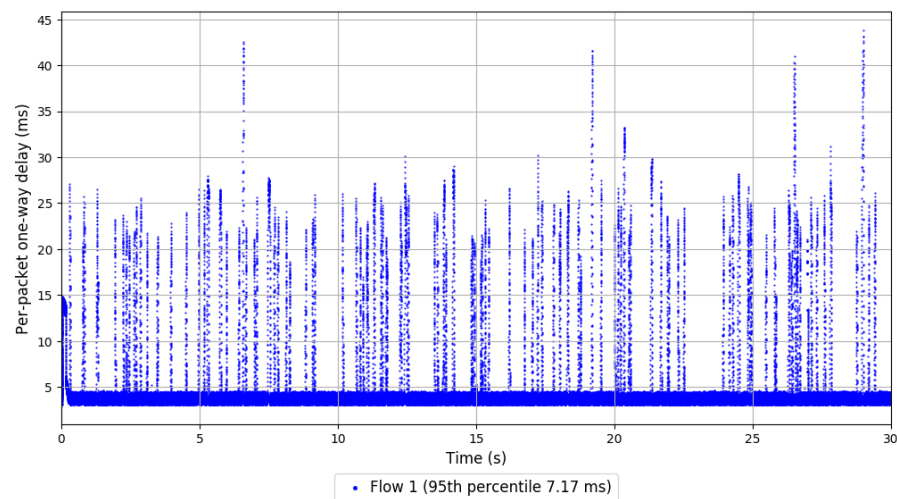
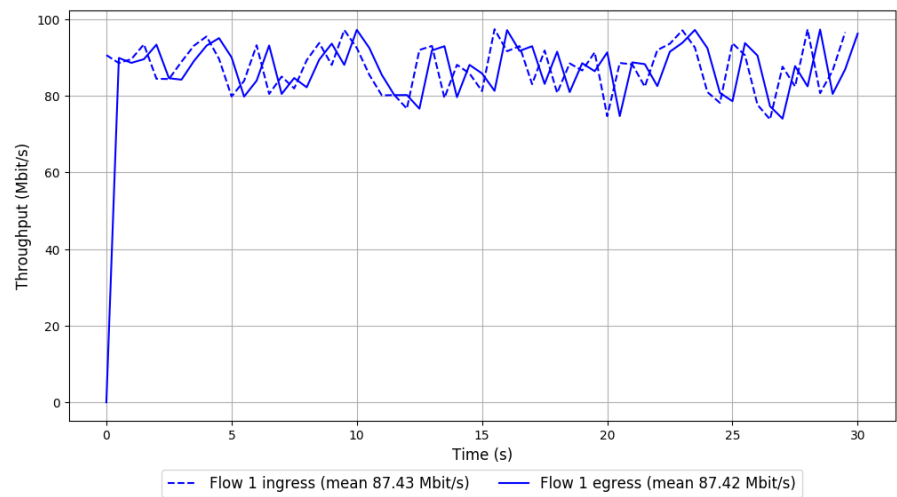


Run 6: Statistics of TCP Vegas

Start at: 2018-05-22 11:33:57  
End at: 2018-05-22 11:34:27  
Local clock offset: -0.464 ms  
Remote clock offset: -6.838 ms

# Below is generated by plot.py at 2018-05-22 13:01:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.42 Mbit/s  
95th percentile per-packet one-way delay: 7.175 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 87.42 Mbit/s  
95th percentile per-packet one-way delay: 7.175 ms  
Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link

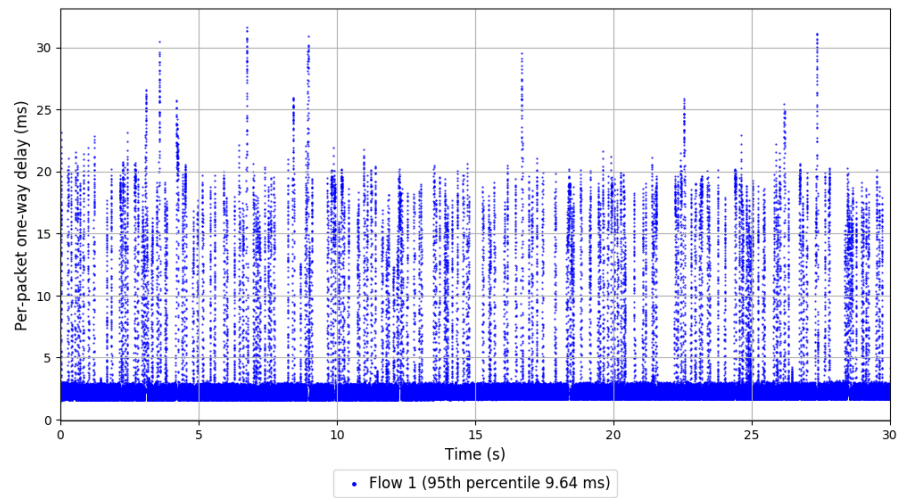
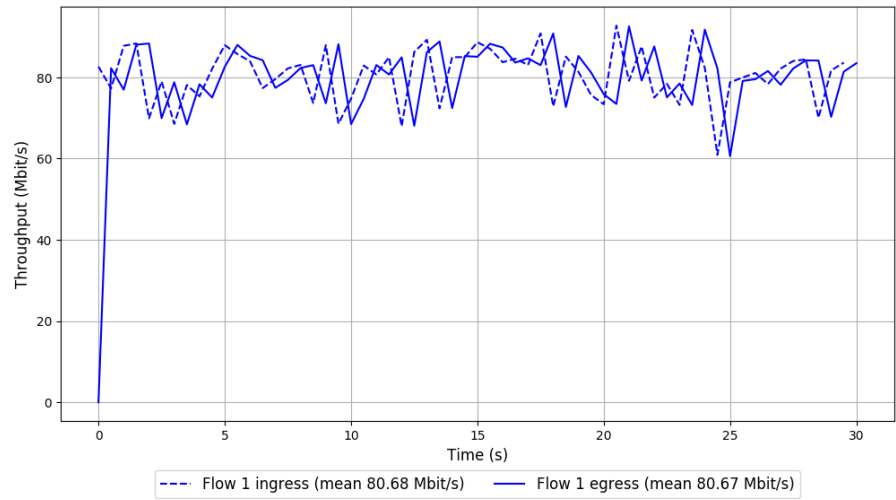


Run 7: Statistics of TCP Vegas

Start at: 2018-05-22 11:51:28  
End at: 2018-05-22 11:51:58  
Local clock offset: -1.545 ms  
Remote clock offset: -2.334 ms

# Below is generated by plot.py at 2018-05-22 13:02:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.67 Mbit/s  
95th percentile per-packet one-way delay: 9.642 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 80.67 Mbit/s  
95th percentile per-packet one-way delay: 9.642 ms  
Loss rate: 0.02%

### Run 7: Report of TCP Vegas — Data Link

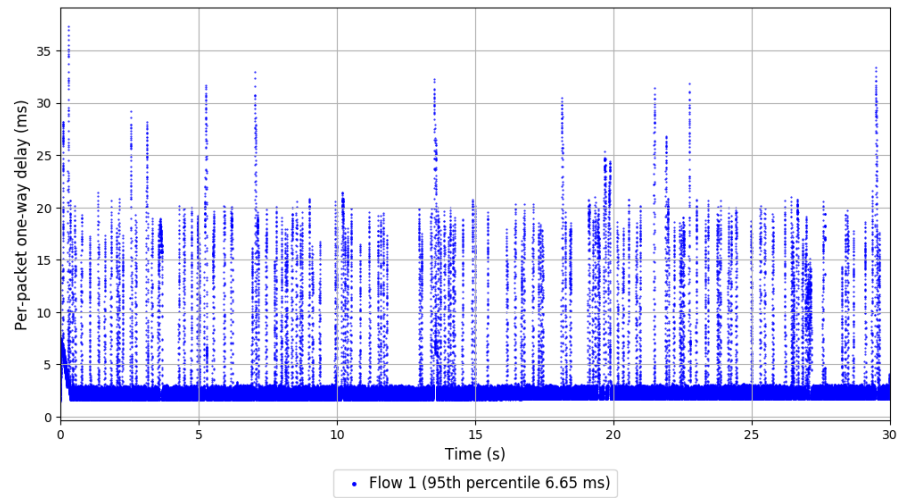
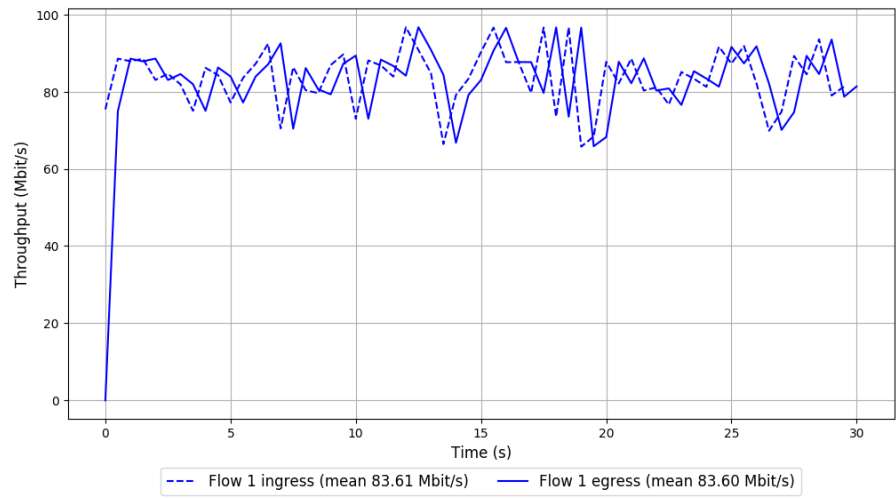


Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 12:09:06  
End at: 2018-05-22 12:09:36  
Local clock offset: -5.894 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-05-22 13:02:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 83.60 Mbit/s  
95th percentile per-packet one-way delay: 6.648 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 83.60 Mbit/s  
95th percentile per-packet one-way delay: 6.648 ms  
Loss rate: 0.01%

### Run 8: Report of TCP Vegas — Data Link

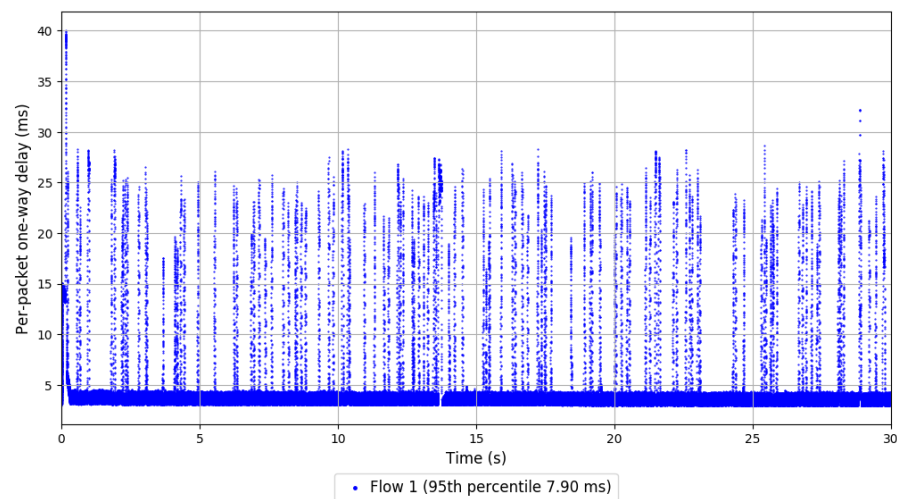
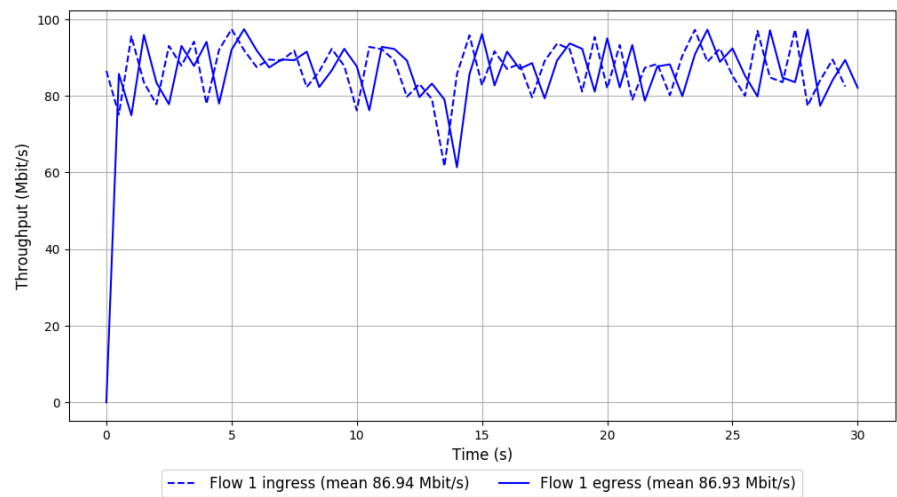


Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 12:26:40  
End at: 2018-05-22 12:27:10  
Local clock offset: -6.011 ms  
Remote clock offset: -5.377 ms

# Below is generated by plot.py at 2018-05-22 13:02:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.93 Mbit/s  
95th percentile per-packet one-way delay: 7.897 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 86.93 Mbit/s  
95th percentile per-packet one-way delay: 7.897 ms  
Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link

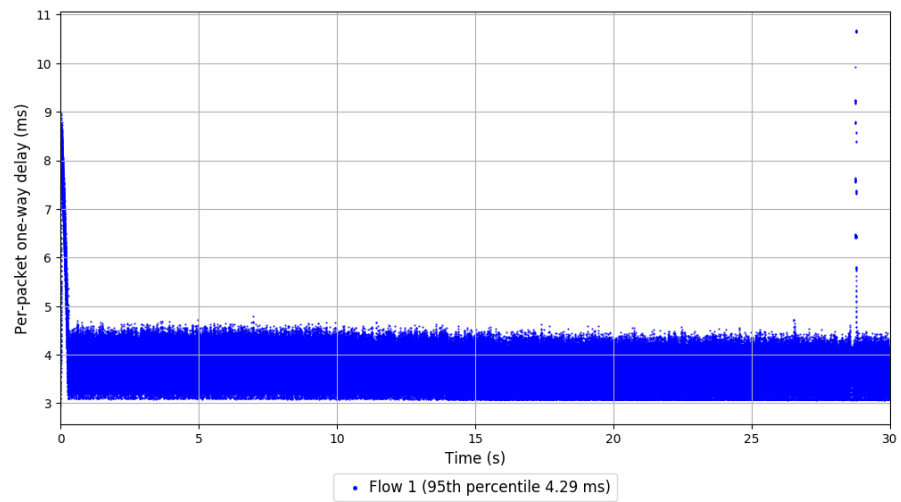
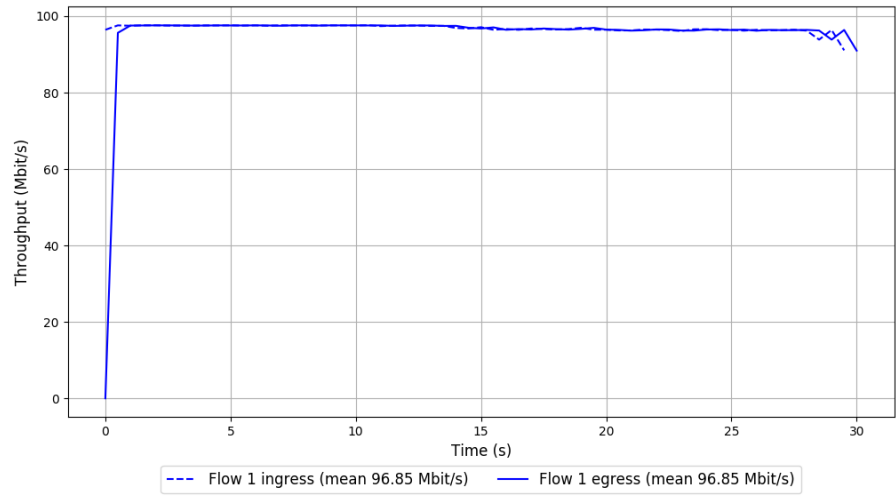


Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 12:44:21  
End at: 2018-05-22 12:44:51  
Local clock offset: -5.444 ms  
Remote clock offset: -7.147 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.85 Mbit/s  
95th percentile per-packet one-way delay: 4.290 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.85 Mbit/s  
95th percentile per-packet one-way delay: 4.290 ms  
Loss rate: 0.01%

### Run 10: Report of TCP Vegas — Data Link

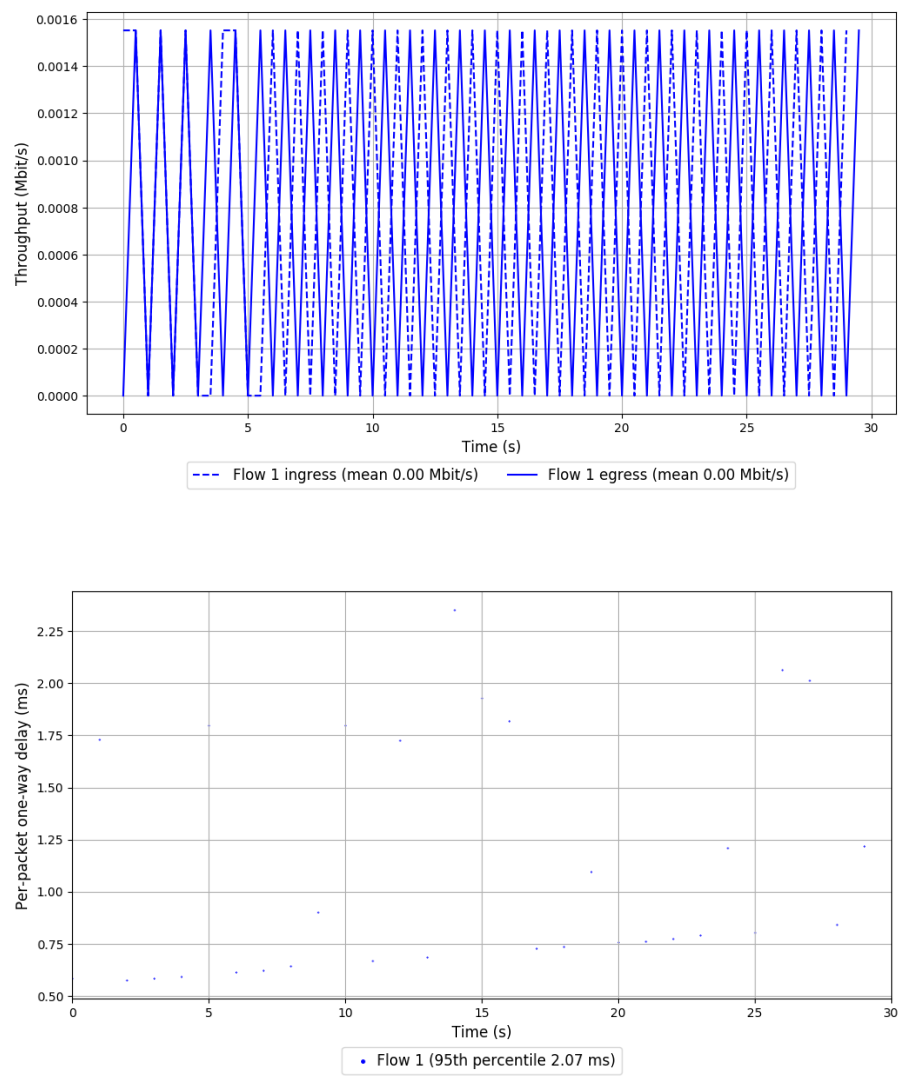


Run 1: Statistics of Verus

Start at: 2018-05-22 10:04:59  
End at: 2018-05-22 10:05:29  
Local clock offset: -4.143 ms  
Remote clock offset: -4.281 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 2.067 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 2.067 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

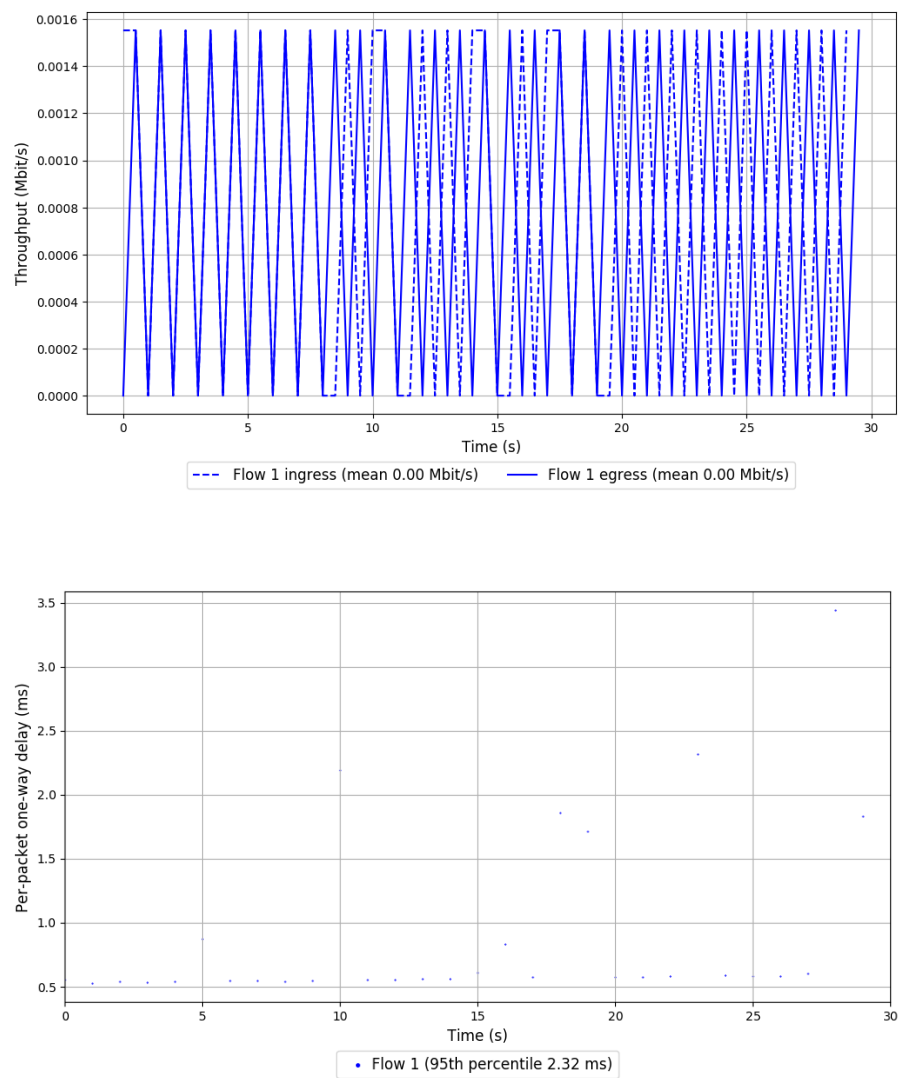


Run 2: Statistics of Verus

Start at: 2018-05-22 10:22:27  
End at: 2018-05-22 10:22:57  
Local clock offset: -6.591 ms  
Remote clock offset: -1.163 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 2.319 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 2.319 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

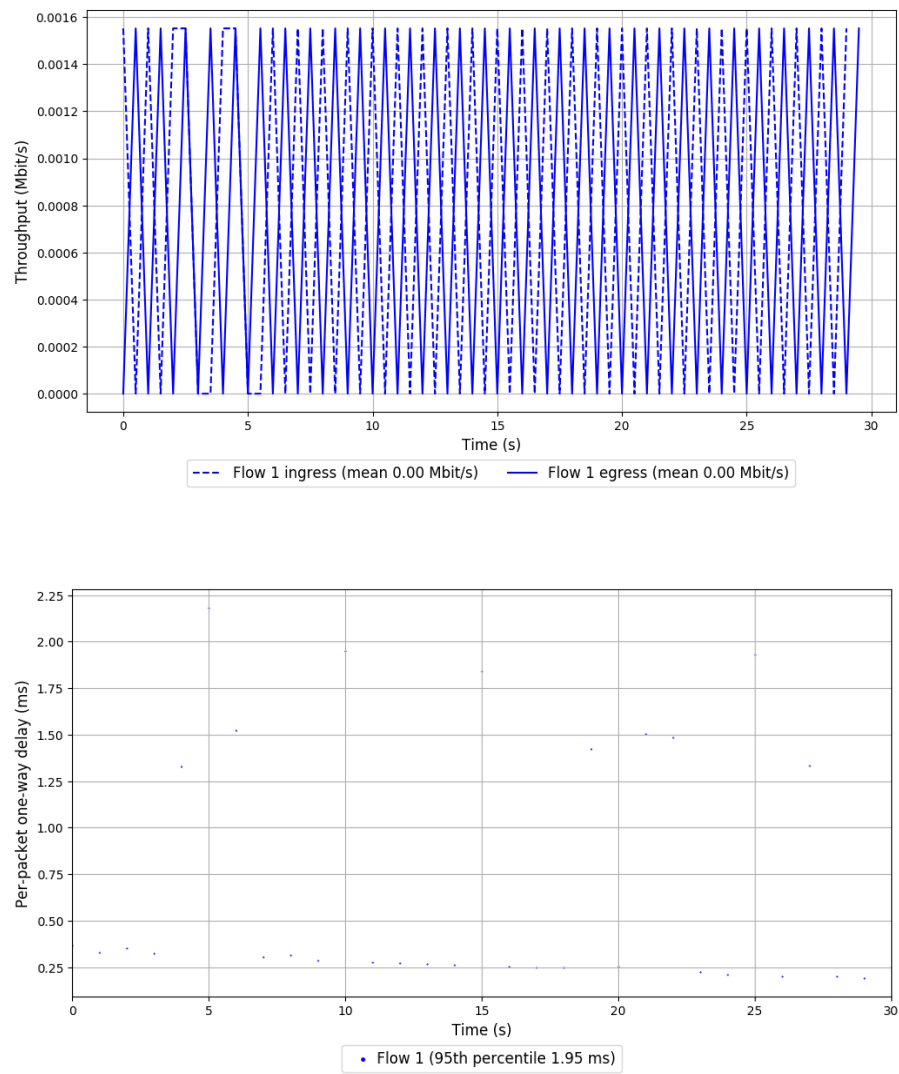


Run 3: Statistics of Verus

Start at: 2018-05-22 10:39:56  
End at: 2018-05-22 10:40:26  
Local clock offset: -6.276 ms  
Remote clock offset: -5.093 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.949 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.949 ms  
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

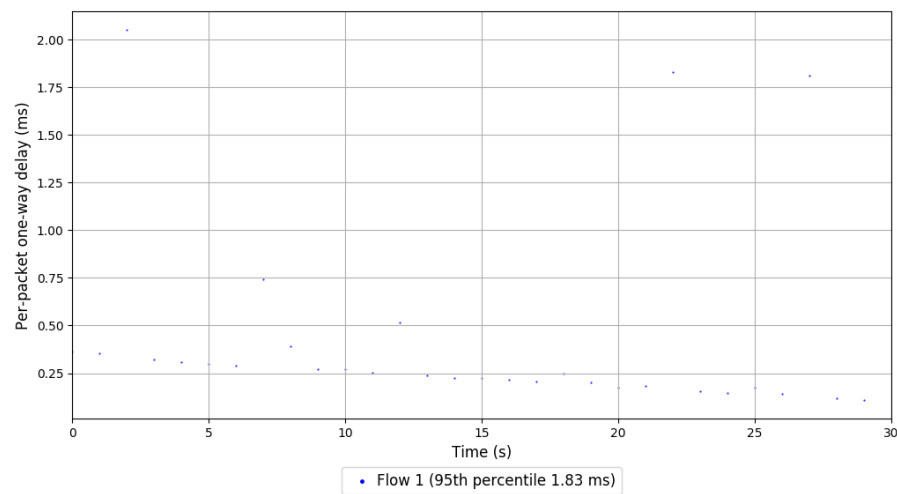
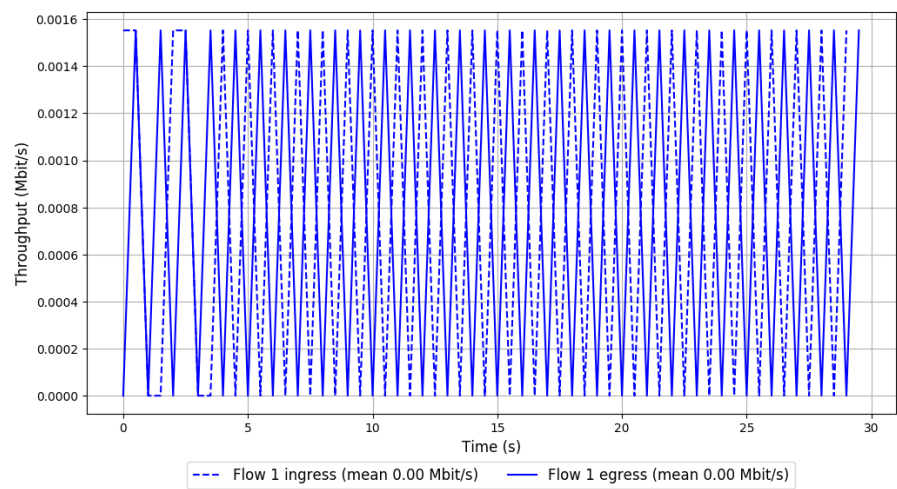


Run 4: Statistics of Verus

Start at: 2018-05-22 10:57:29  
End at: 2018-05-22 10:57:59  
Local clock offset: -5.901 ms  
Remote clock offset: -7.847 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.830 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.830 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

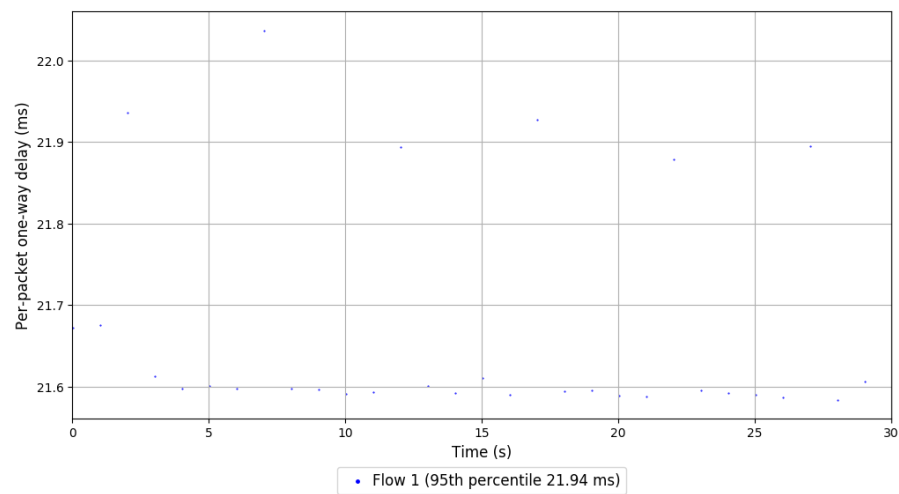
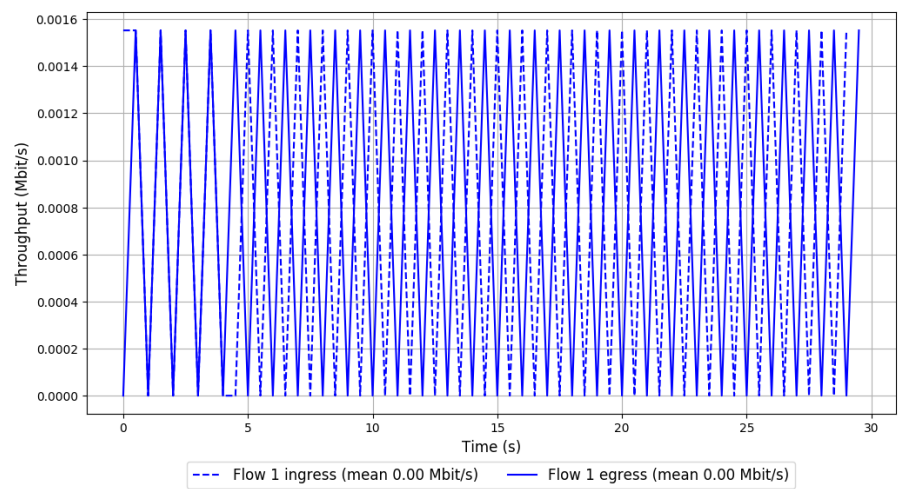


Run 5: Statistics of Verus

Start at: 2018-05-22 11:15:10  
End at: 2018-05-22 11:15:40  
Local clock offset: 19.004 ms  
Remote clock offset: -7.283 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 21.936 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 21.936 ms  
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

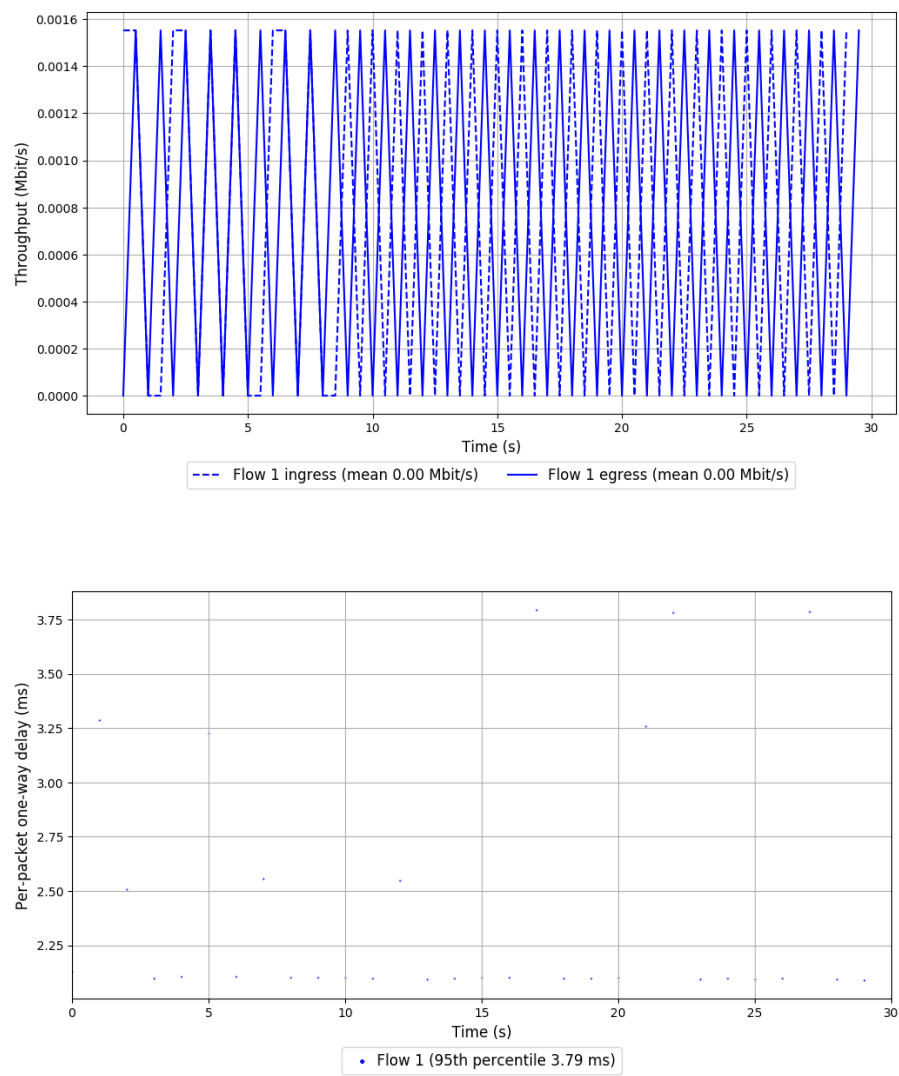


Run 6: Statistics of Verus

Start at: 2018-05-22 11:32:53  
End at: 2018-05-22 11:33:23  
Local clock offset: -1.33 ms  
Remote clock offset: -6.845 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 3.786 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 3.786 ms  
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

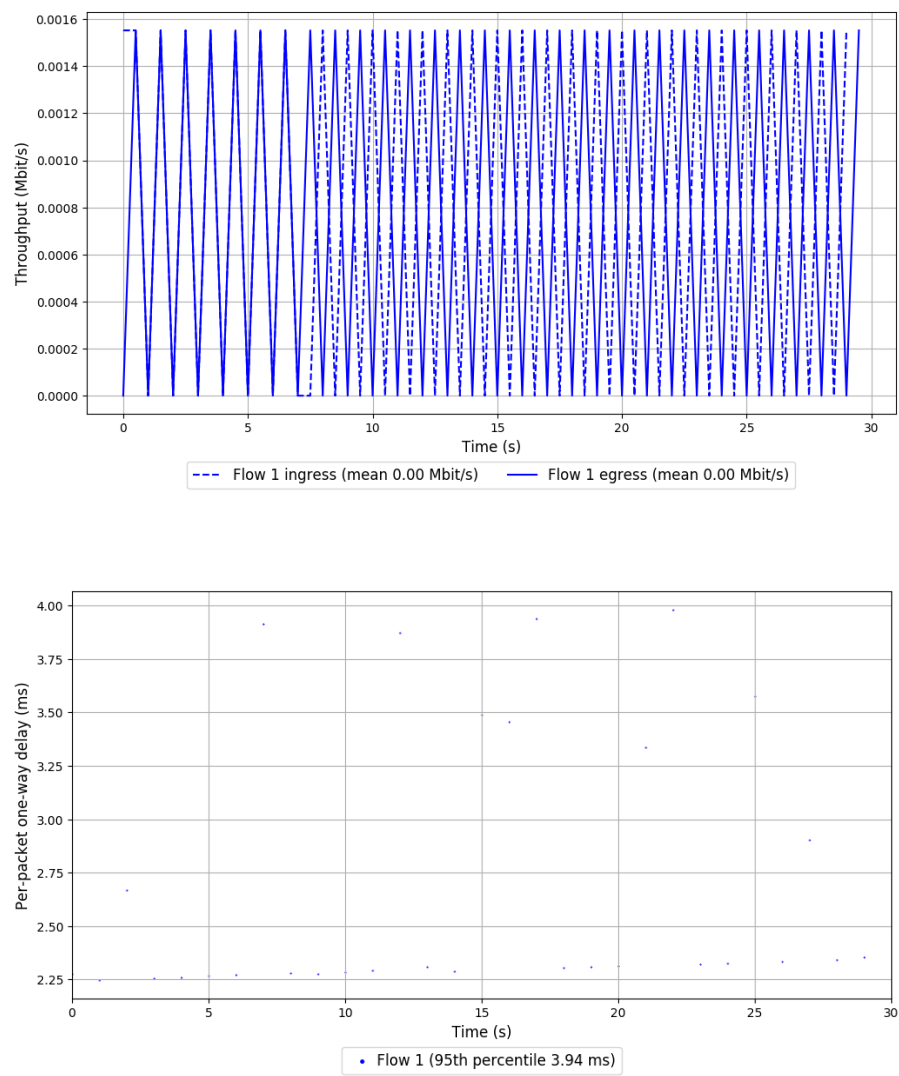


Run 7: Statistics of Verus

Start at: 2018-05-22 11:50:24  
End at: 2018-05-22 11:50:54  
Local clock offset: -0.729 ms  
Remote clock offset: -2.546 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 3.937 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 3.937 ms  
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

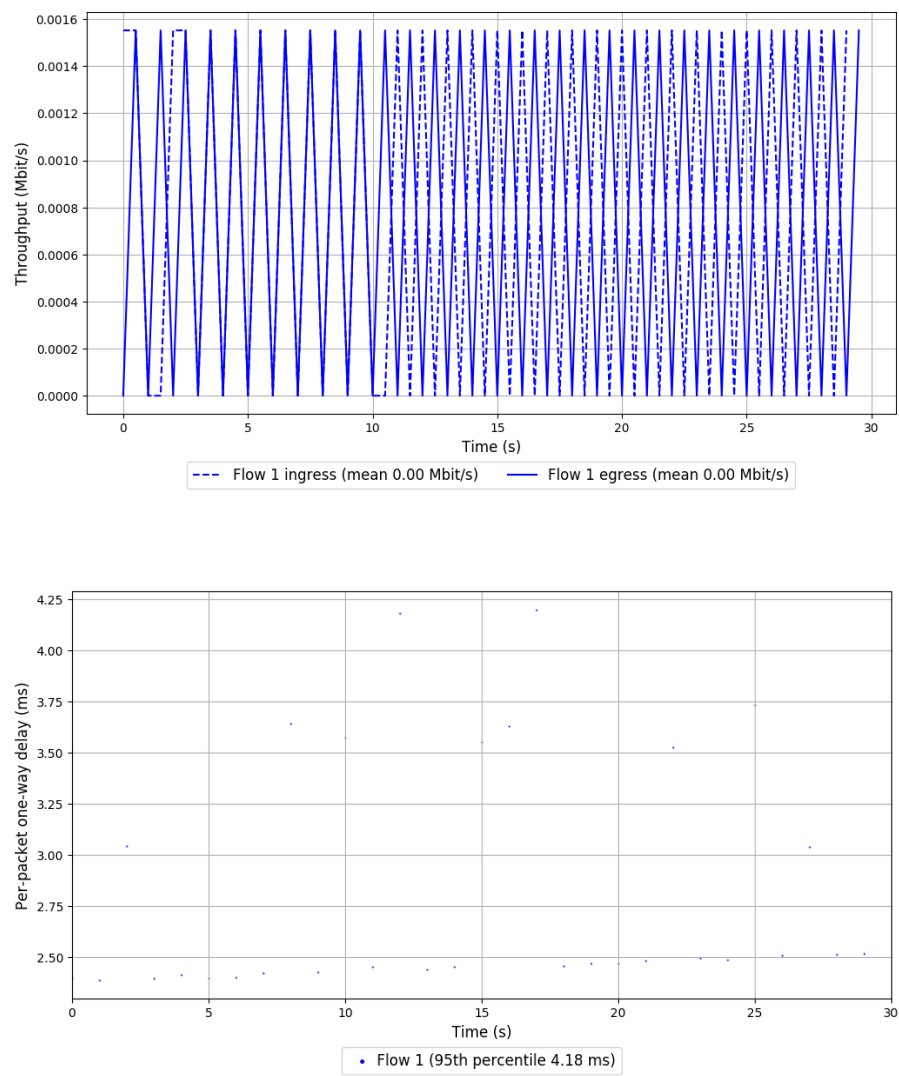


Run 8: Statistics of Verus

Start at: 2018-05-22 12:08:03  
End at: 2018-05-22 12:08:33  
Local clock offset: -4.867 ms  
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 4.181 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 4.181 ms  
Loss rate: 0.00%

Run 8: Report of Verus — Data Link

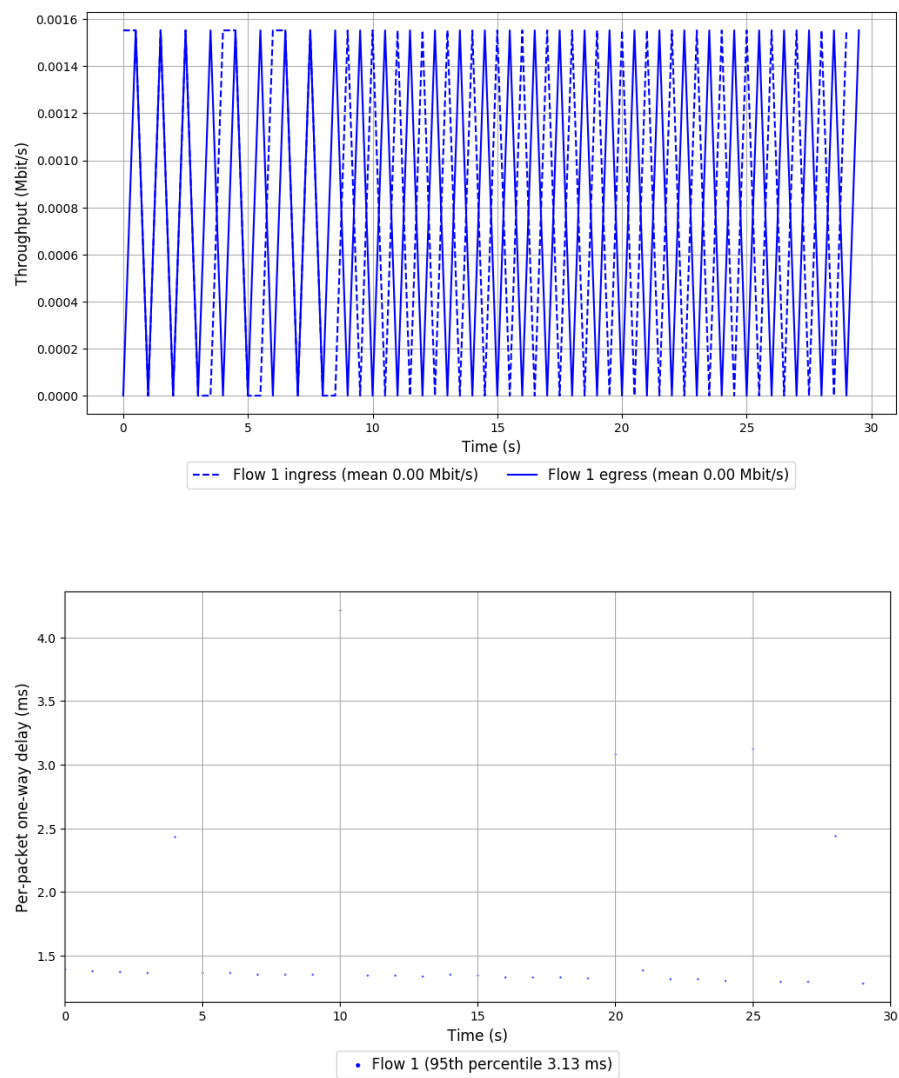


Run 9: Statistics of Verus

Start at: 2018-05-22 12:25:37  
End at: 2018-05-22 12:26:07  
Local clock offset: -7.538 ms  
Remote clock offset: -5.064 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 3.129 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 3.129 ms  
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

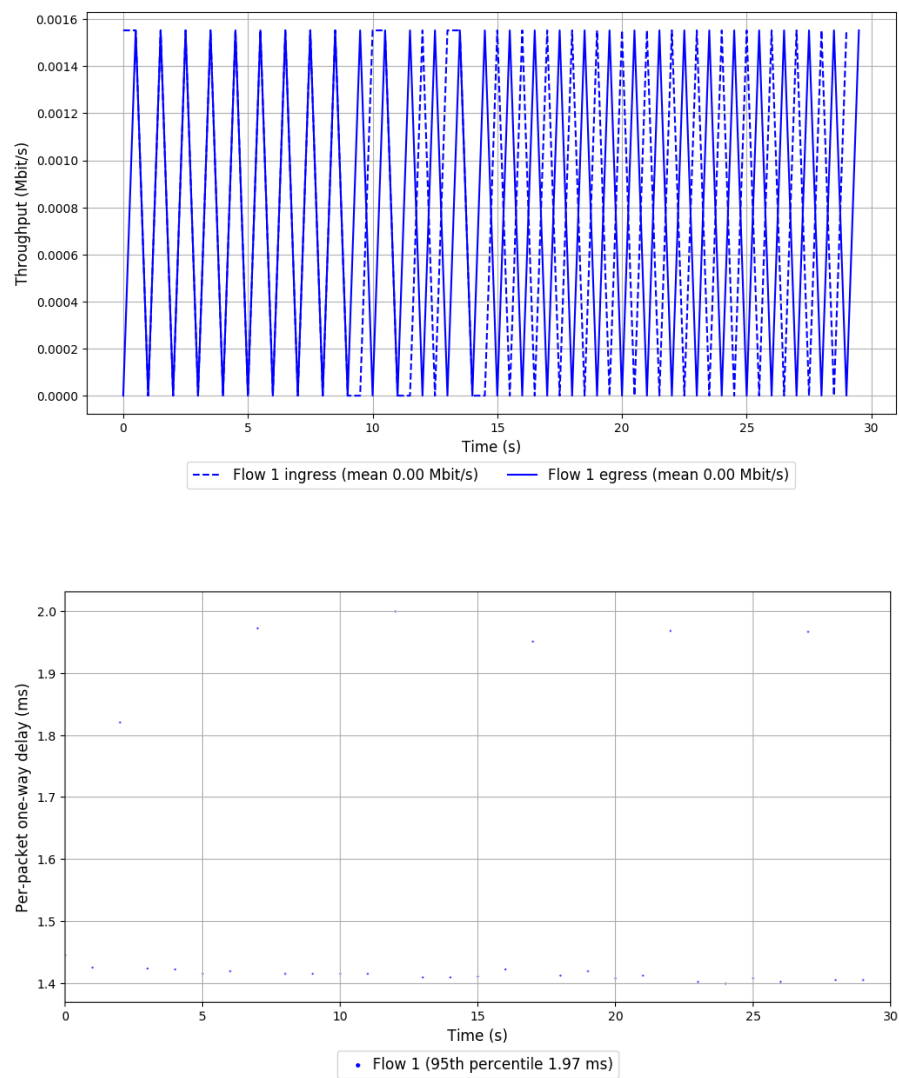


Run 10: Statistics of Verus

Start at: 2018-05-22 12:43:18  
End at: 2018-05-22 12:43:48  
Local clock offset: -7.015 ms  
Remote clock offset: -7.149 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.973 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1.973 ms  
Loss rate: 0.00%

Run 10: Report of Verus — Data Link

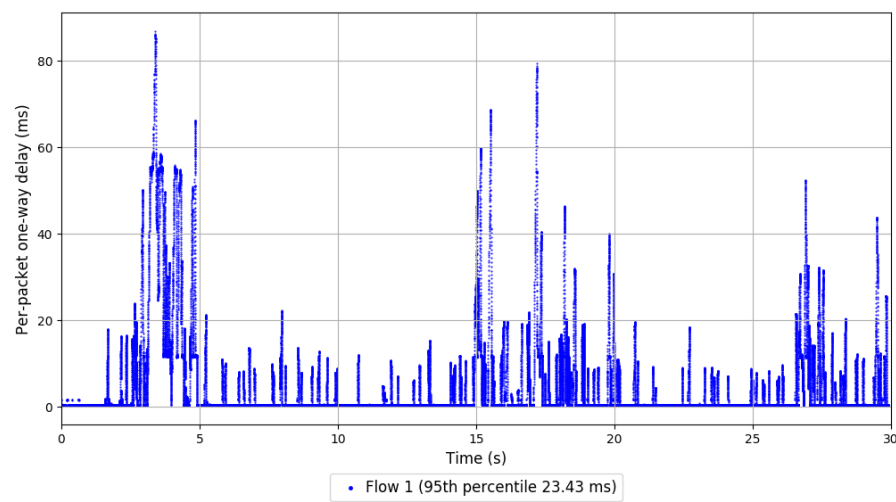
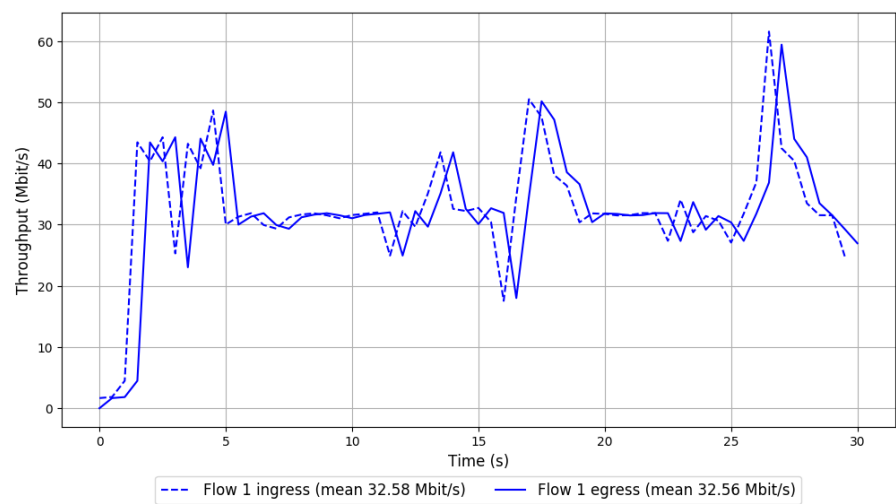


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-22 09:55:05  
End at: 2018-05-22 09:55:35  
Local clock offset: -0.304 ms  
Remote clock offset: -8.761 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 32.56 Mbit/s  
95th percentile per-packet one-way delay: 23.432 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 32.56 Mbit/s  
95th percentile per-packet one-way delay: 23.432 ms  
Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link

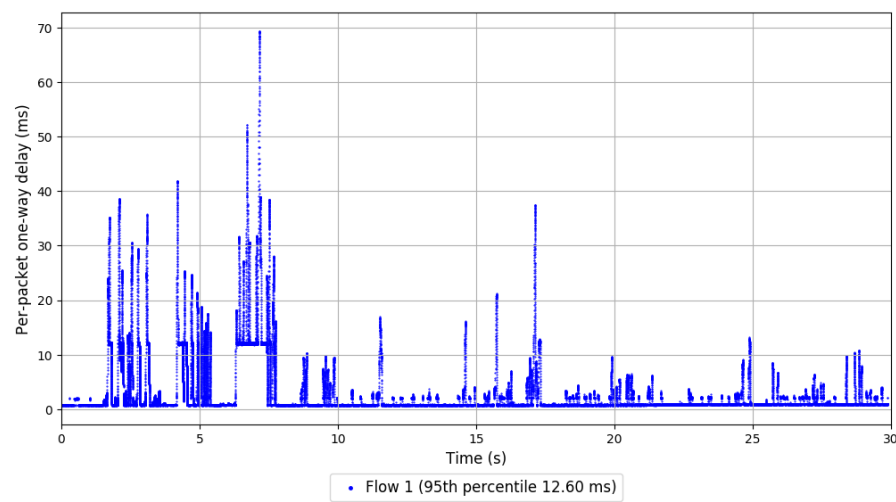
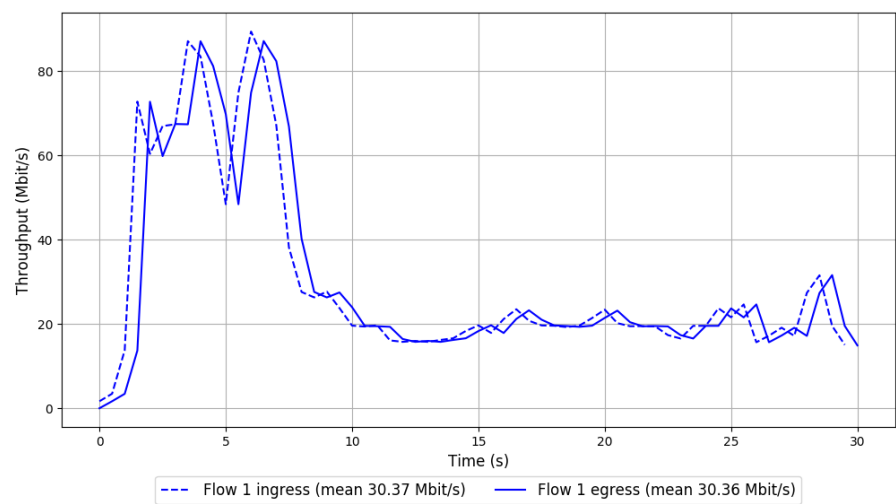


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-22 10:12:33  
End at: 2018-05-22 10:13:03  
Local clock offset: -5.702 ms  
Remote clock offset: -2.446 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 30.36 Mbit/s  
95th percentile per-packet one-way delay: 12.604 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 30.36 Mbit/s  
95th percentile per-packet one-way delay: 12.604 ms  
Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link

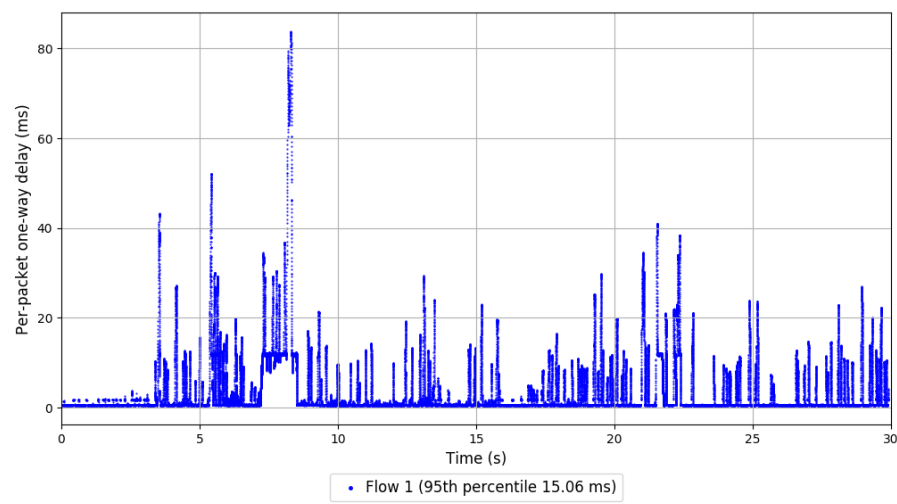
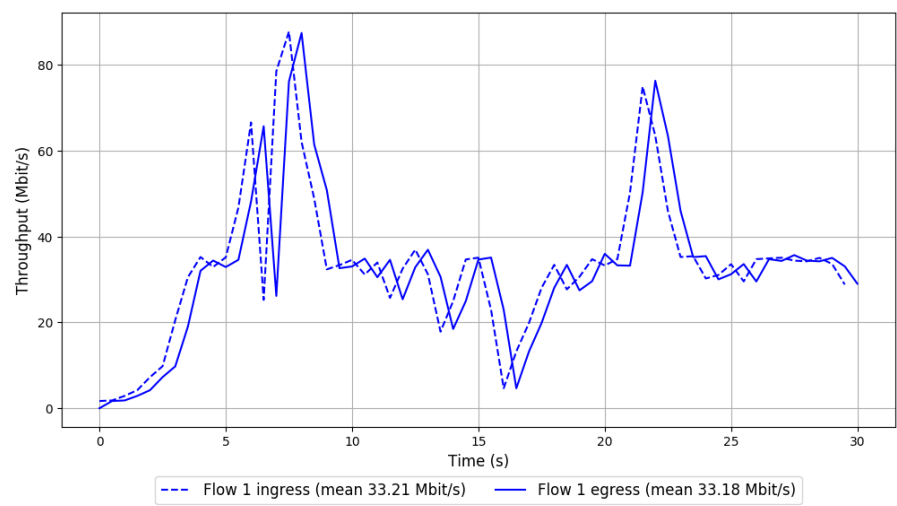


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-22 10:30:01  
End at: 2018-05-22 10:30:31  
Local clock offset: -6.648 ms  
Remote clock offset: -0.791 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 33.18 Mbit/s  
95th percentile per-packet one-way delay: 15.059 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 33.18 Mbit/s  
95th percentile per-packet one-way delay: 15.059 ms  
Loss rate: 0.08%

Run 3: Report of PCC-Vivace — Data Link

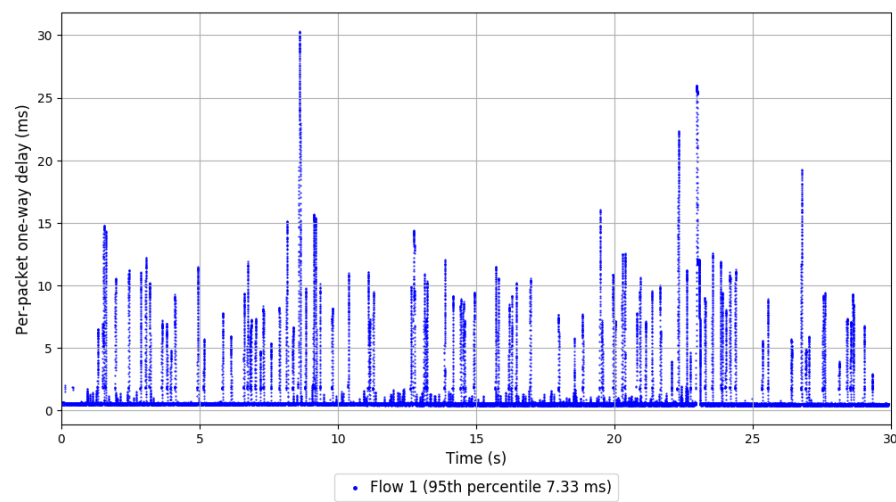
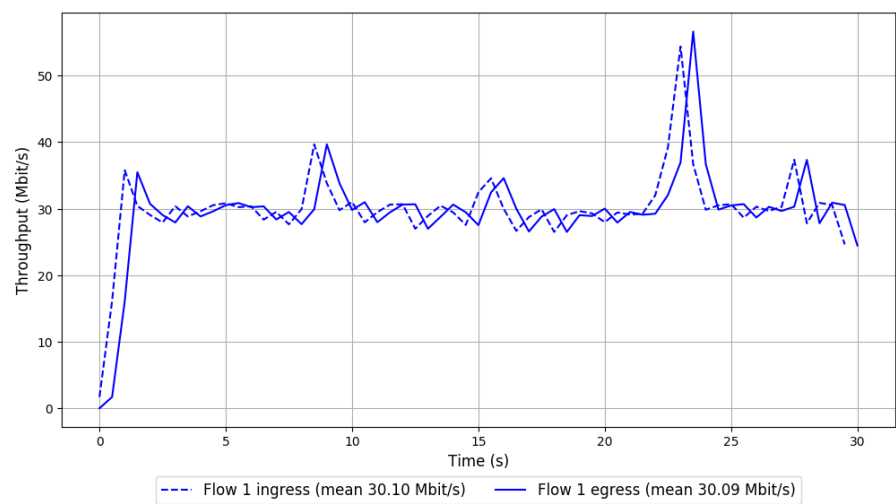


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-22 10:47:31  
End at: 2018-05-22 10:48:01  
Local clock offset: -6.282 ms  
Remote clock offset: -6.712 ms

# Below is generated by plot.py at 2018-05-22 13:02:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 30.09 Mbit/s  
95th percentile per-packet one-way delay: 7.330 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 30.09 Mbit/s  
95th percentile per-packet one-way delay: 7.330 ms  
Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-22 11:05:04

End at: 2018-05-22 11:05:34

Local clock offset: -2.934 ms

Remote clock offset: -8.334 ms

# Below is generated by plot.py at 2018-05-22 13:02:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.47 Mbit/s

95th percentile per-packet one-way delay: 1.584 ms

Loss rate: 0.00%

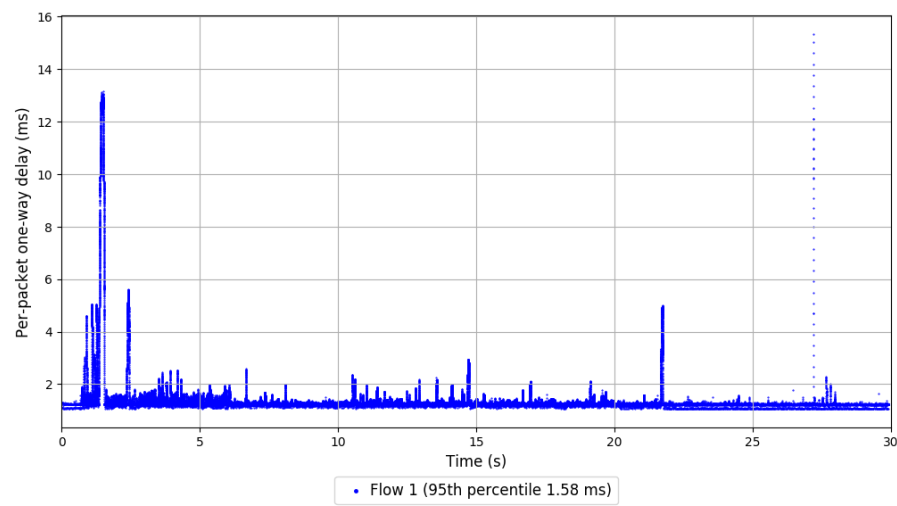
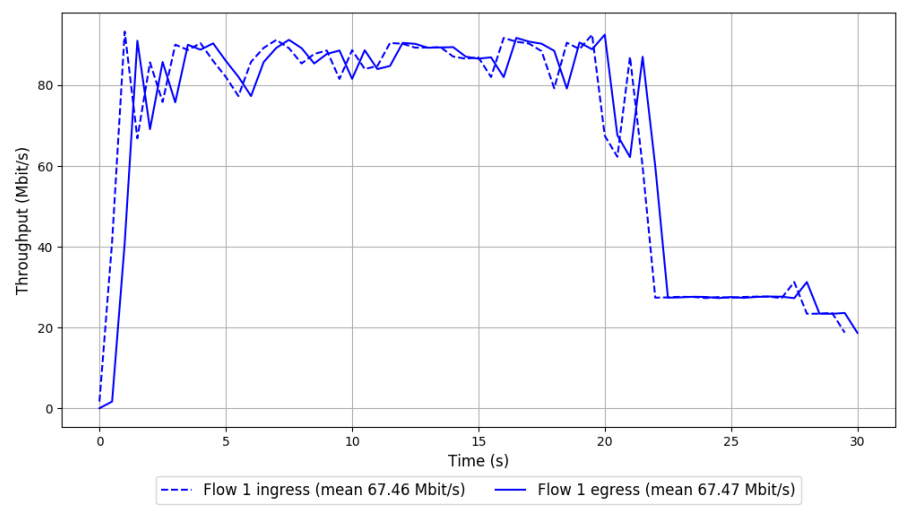
-- Flow 1:

Average throughput: 67.47 Mbit/s

95th percentile per-packet one-way delay: 1.584 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

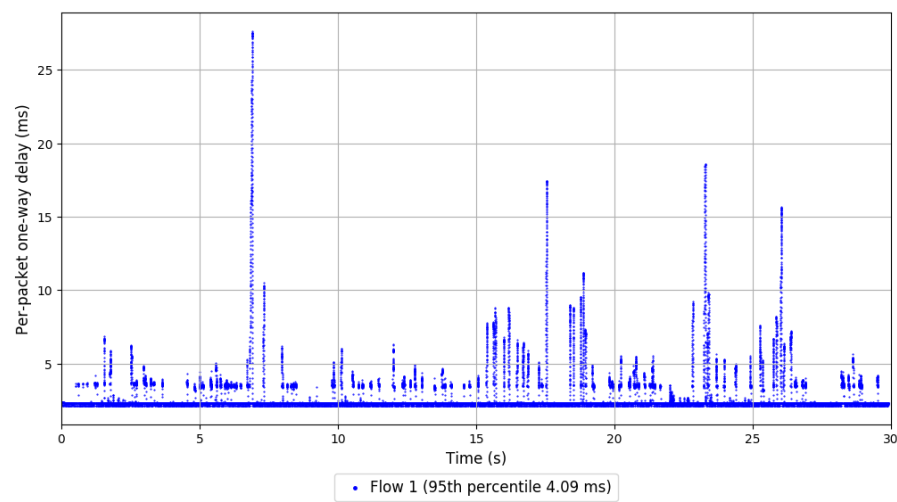
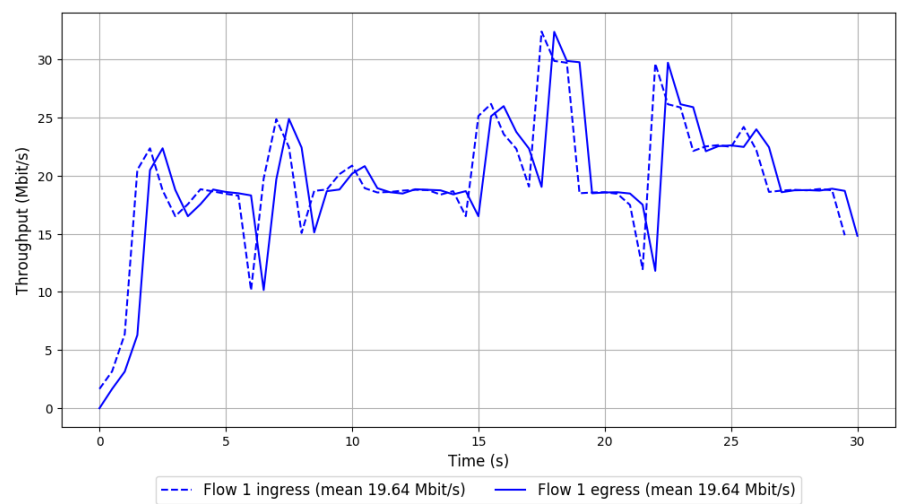


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-22 11:22:51  
End at: 2018-05-22 11:23:21  
Local clock offset: -1.56 ms  
Remote clock offset: -6.968 ms

# Below is generated by plot.py at 2018-05-22 13:02:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 19.64 Mbit/s  
95th percentile per-packet one-way delay: 4.088 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 19.64 Mbit/s  
95th percentile per-packet one-way delay: 4.088 ms  
Loss rate: 0.02%

Run 6: Report of PCC-Vivace — Data Link

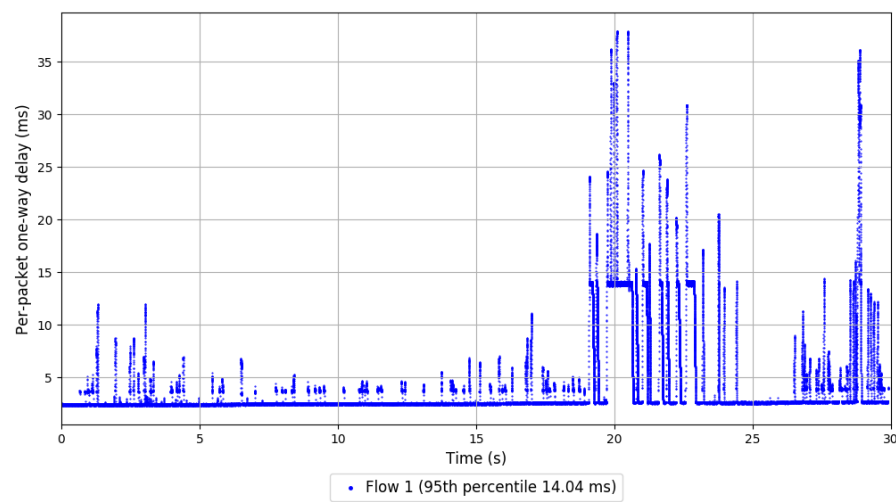
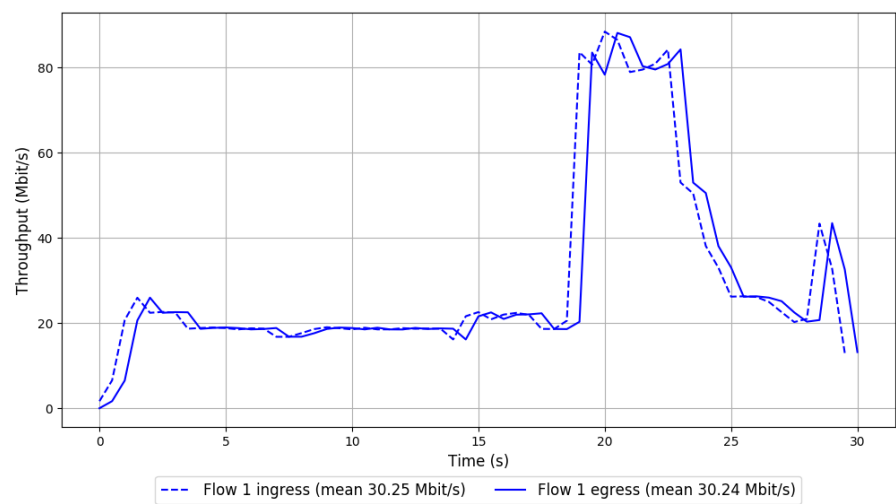


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-22 11:40:28  
End at: 2018-05-22 11:40:58  
Local clock offset: -1.053 ms  
Remote clock offset: -6.168 ms

# Below is generated by plot.py at 2018-05-22 13:02:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 30.24 Mbit/s  
95th percentile per-packet one-way delay: 14.043 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 30.24 Mbit/s  
95th percentile per-packet one-way delay: 14.043 ms  
Loss rate: 0.06%

Run 7: Report of PCC-Vivace — Data Link

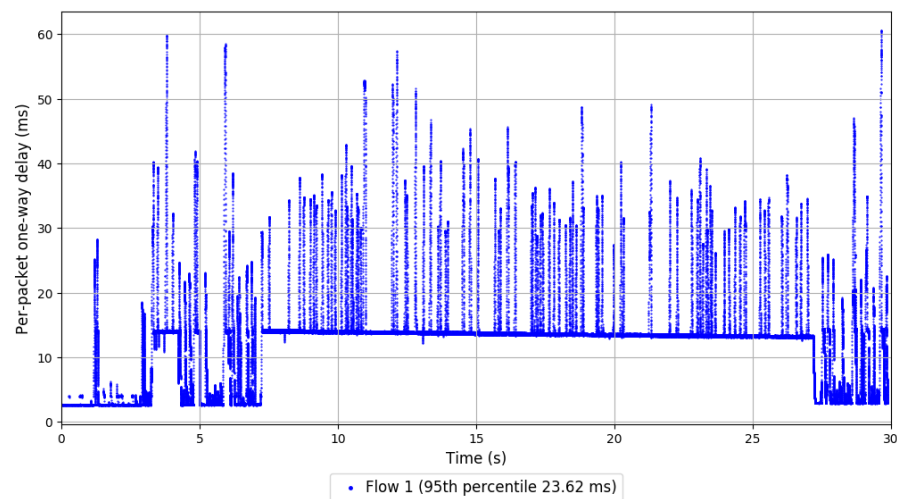
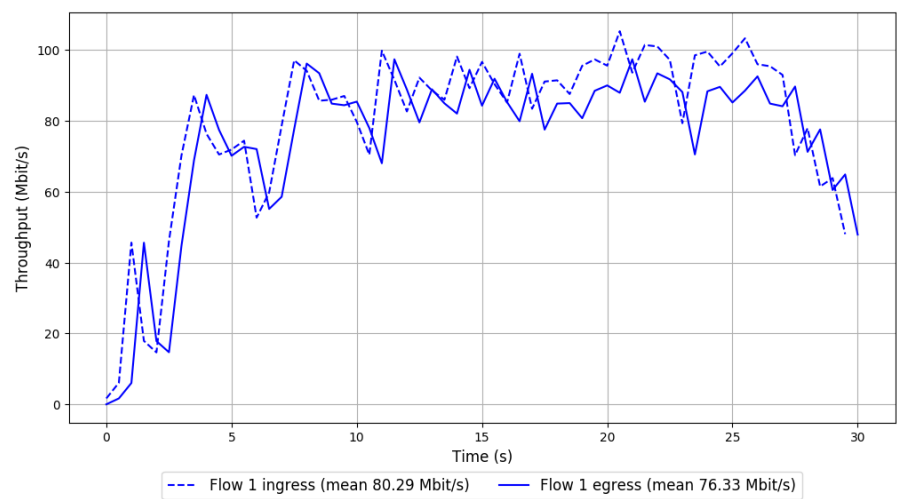


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 11:57:59  
End at: 2018-05-22 11:58:29  
Local clock offset: -1.382 ms  
Remote clock offset: -1.239 ms

# Below is generated by plot.py at 2018-05-22 13:02:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.33 Mbit/s  
95th percentile per-packet one-way delay: 23.620 ms  
Loss rate: 4.95%  
-- Flow 1:  
Average throughput: 76.33 Mbit/s  
95th percentile per-packet one-way delay: 23.620 ms  
Loss rate: 4.95%

Run 8: Report of PCC-Vivace — Data Link

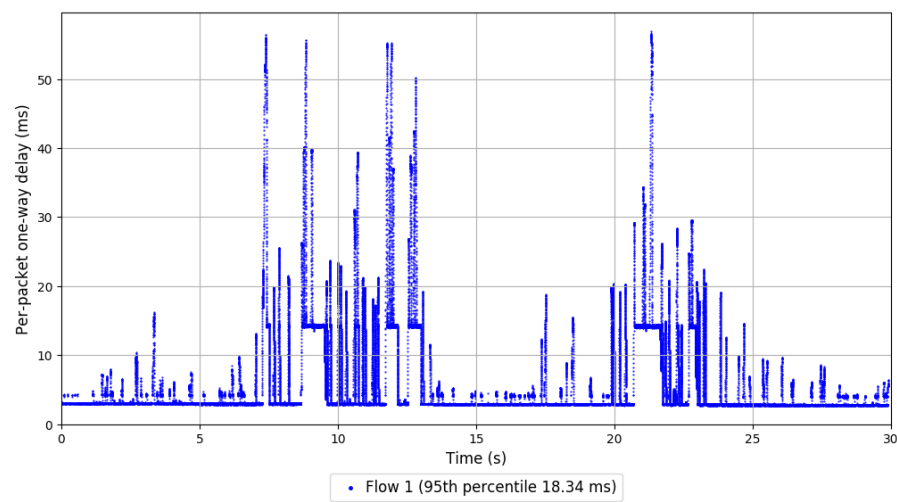
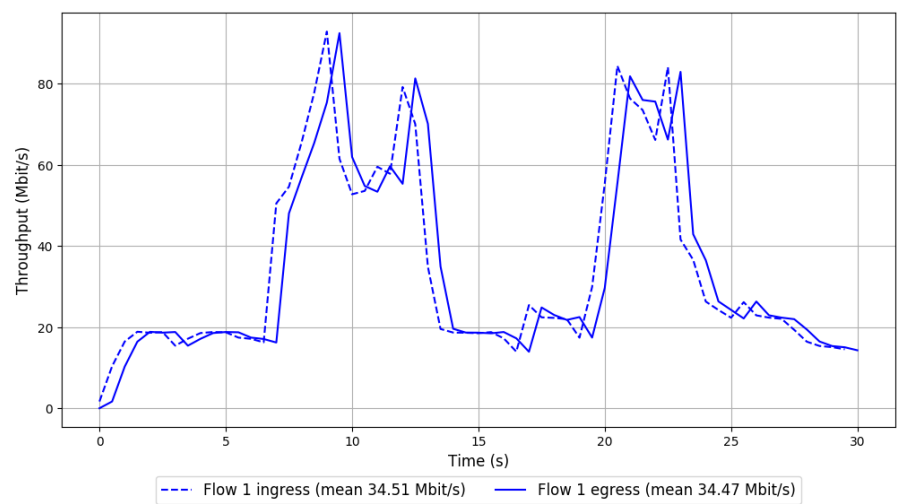


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 12:15:38  
End at: 2018-05-22 12:16:08  
Local clock offset: -5.212 ms  
Remote clock offset: -1.262 ms

# Below is generated by plot.py at 2018-05-22 13:02:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.47 Mbit/s  
95th percentile per-packet one-way delay: 18.339 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 34.47 Mbit/s  
95th percentile per-packet one-way delay: 18.339 ms  
Loss rate: 0.11%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 12:33:12

End at: 2018-05-22 12:33:42

Local clock offset: -6.317 ms

Remote clock offset: -6.372 ms

# Below is generated by plot.py at 2018-05-22 13:02:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 13.636 ms

Loss rate: 0.24%

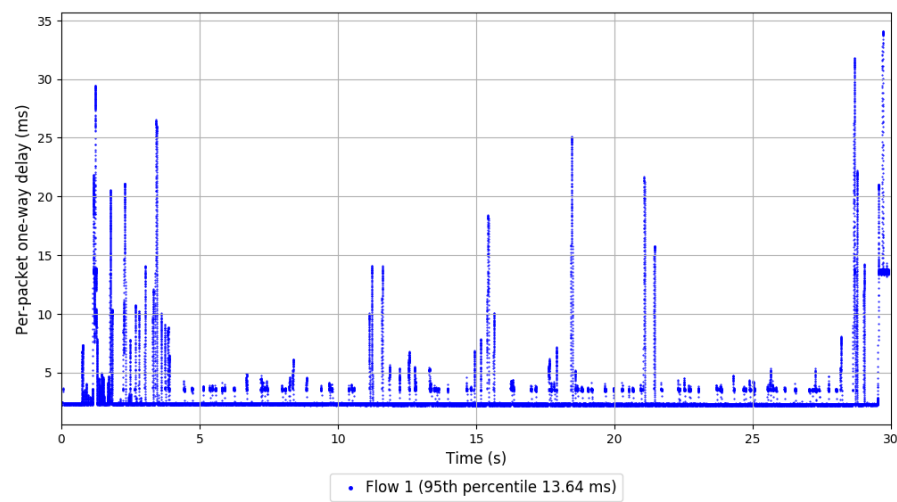
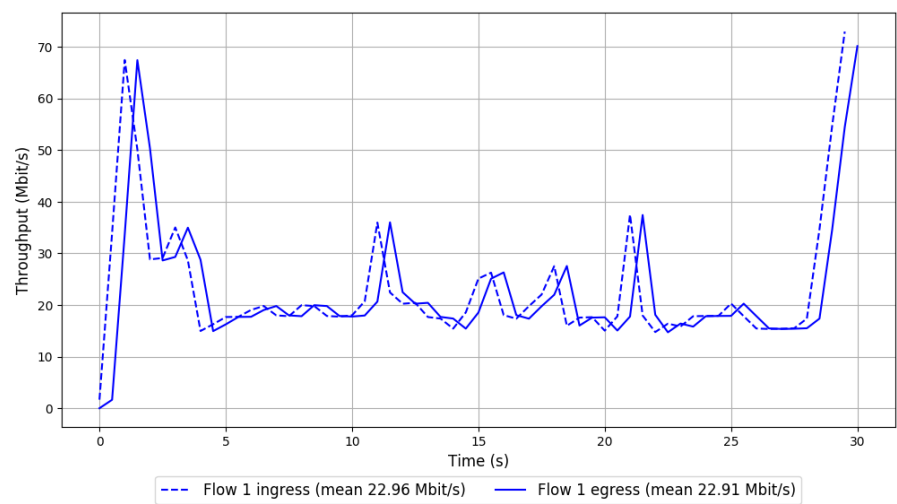
-- Flow 1:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 13.636 ms

Loss rate: 0.24%

Run 10: Report of PCC-Vivace — Data Link

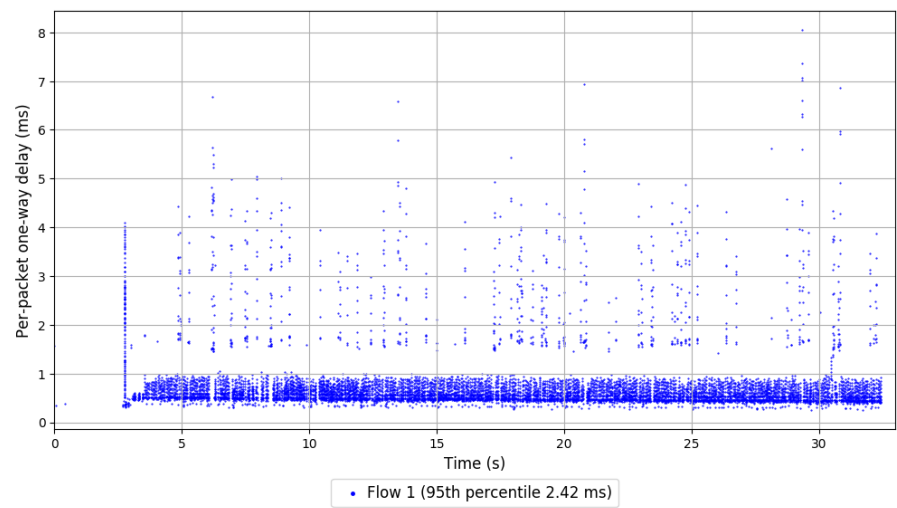
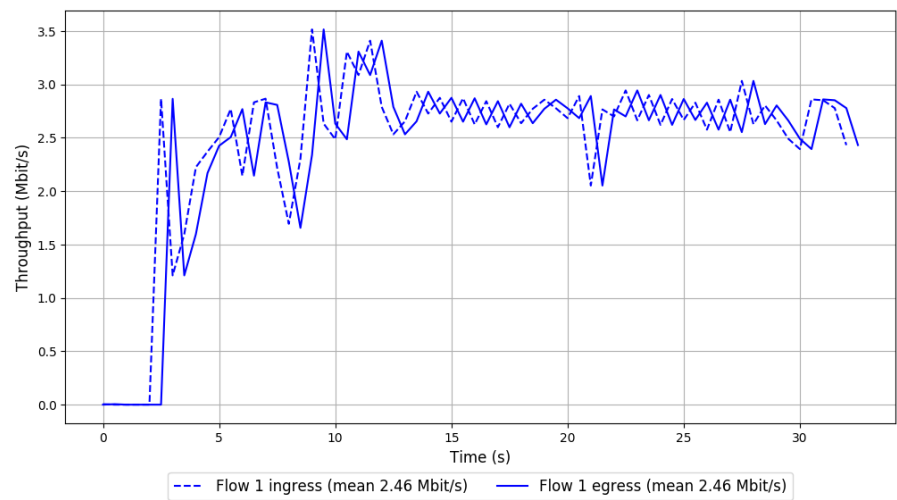


Run 1: Statistics of WebRTC media

Start at: 2018-05-22 09:54:01  
End at: 2018-05-22 09:54:31  
Local clock offset: -0.341 ms  
Remote clock offset: -8.631 ms

# Below is generated by plot.py at 2018-05-22 13:02:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 2.425 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 2.425 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

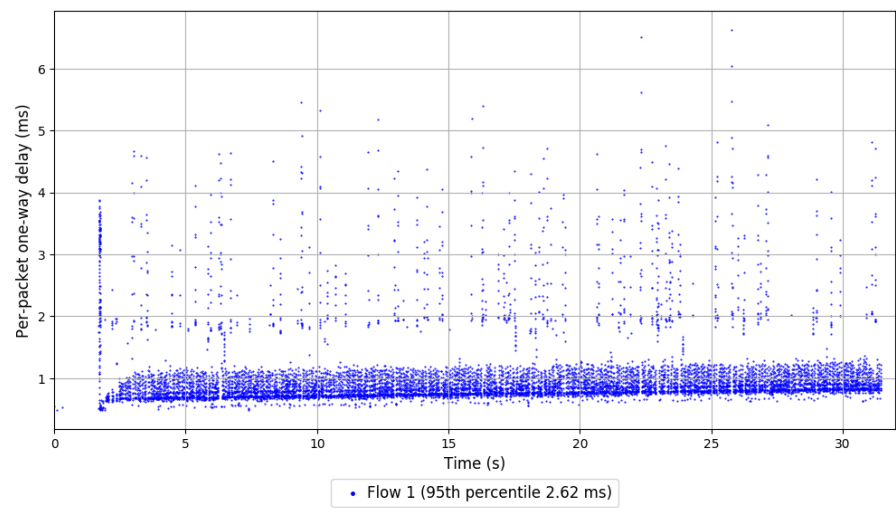
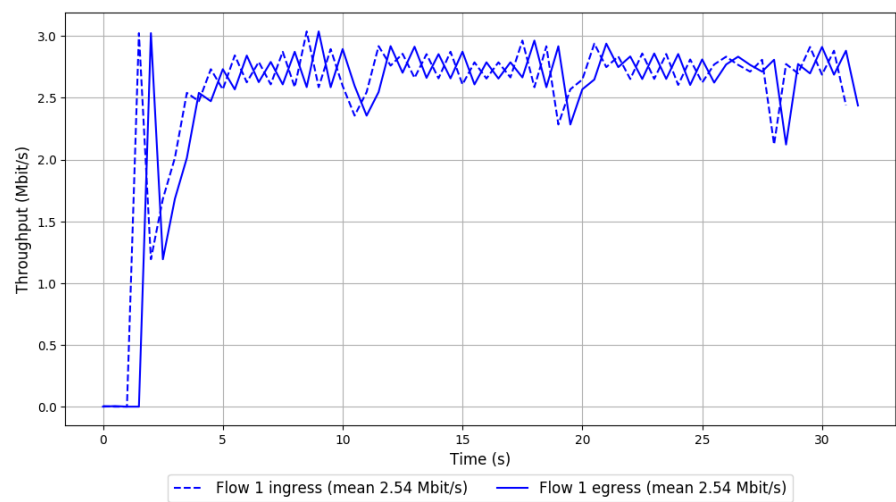


Run 2: Statistics of WebRTC media

Start at: 2018-05-22 10:11:30  
End at: 2018-05-22 10:12:00  
Local clock offset: -5.573 ms  
Remote clock offset: -2.659 ms

# Below is generated by plot.py at 2018-05-22 13:02:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.54 Mbit/s  
95th percentile per-packet one-way delay: 2.615 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.54 Mbit/s  
95th percentile per-packet one-way delay: 2.615 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

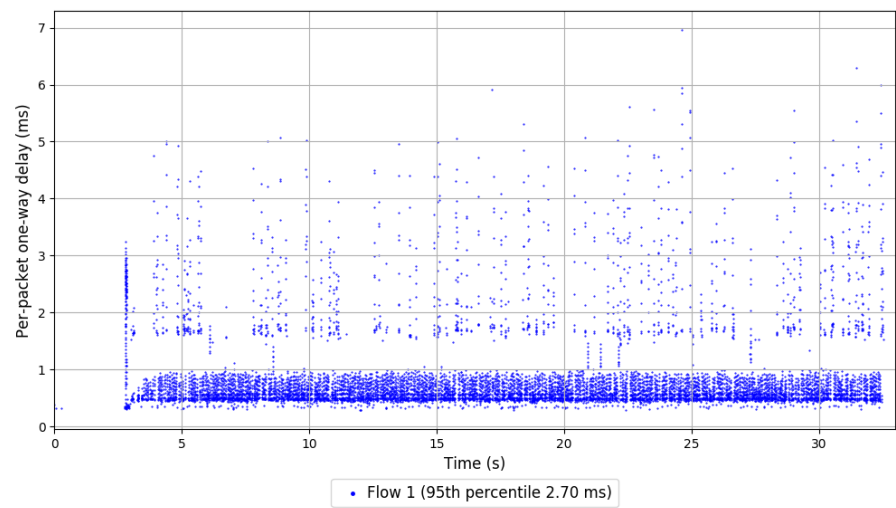
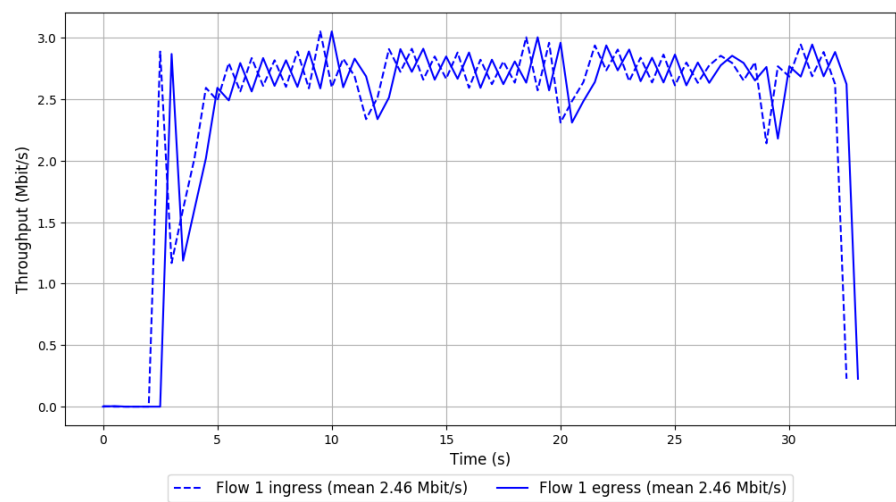


Run 3: Statistics of WebRTC media

Start at: 2018-05-22 10:28:58  
End at: 2018-05-22 10:29:28  
Local clock offset: -6.657 ms  
Remote clock offset: -0.726 ms

# Below is generated by plot.py at 2018-05-22 13:02:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 2.698 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 2.698 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-22 10:46:27

End at: 2018-05-22 10:46:57

Local clock offset: -6.205 ms

Remote clock offset: -6.53 ms

# Below is generated by plot.py at 2018-05-22 13:02:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 2.203 ms

Loss rate: 0.00%

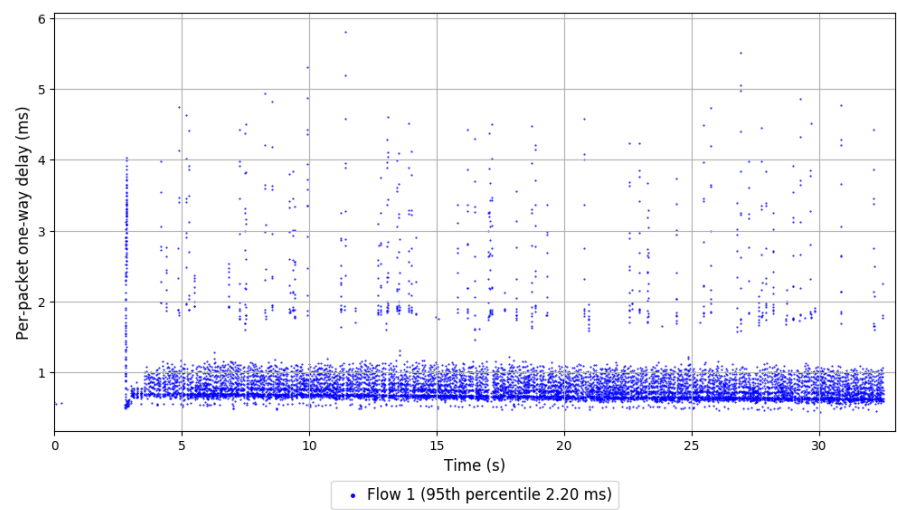
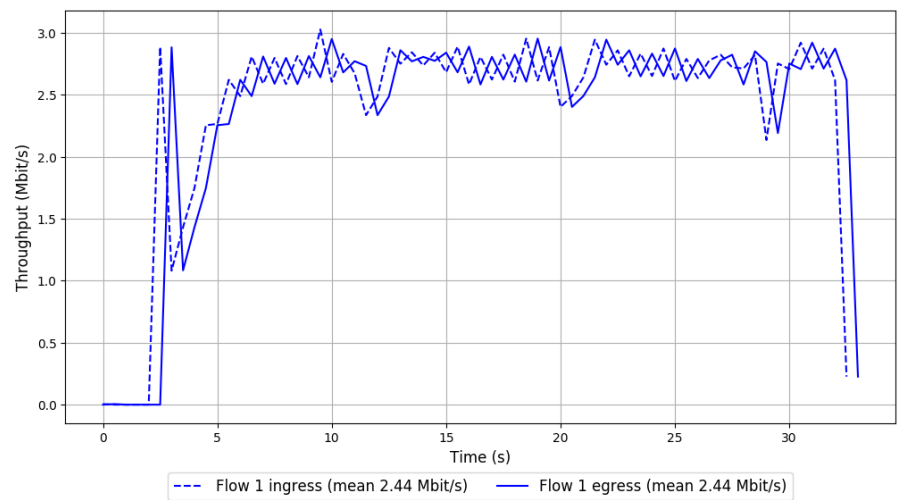
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 2.203 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

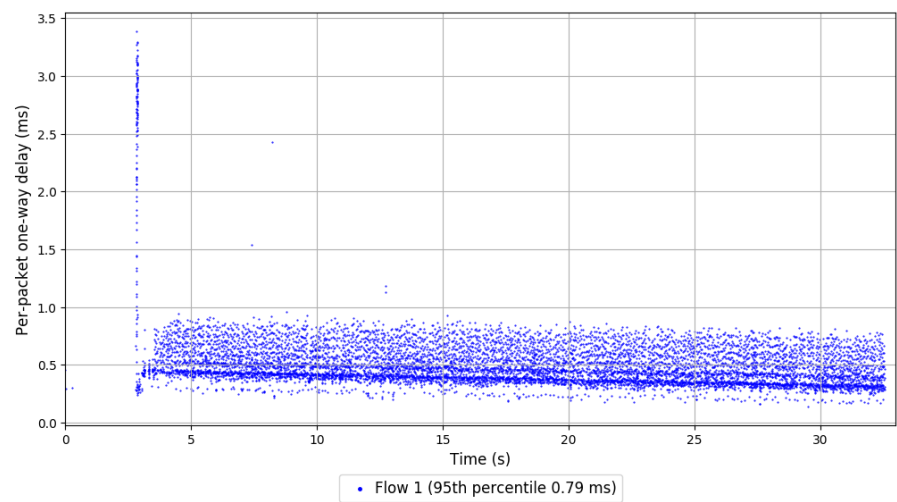
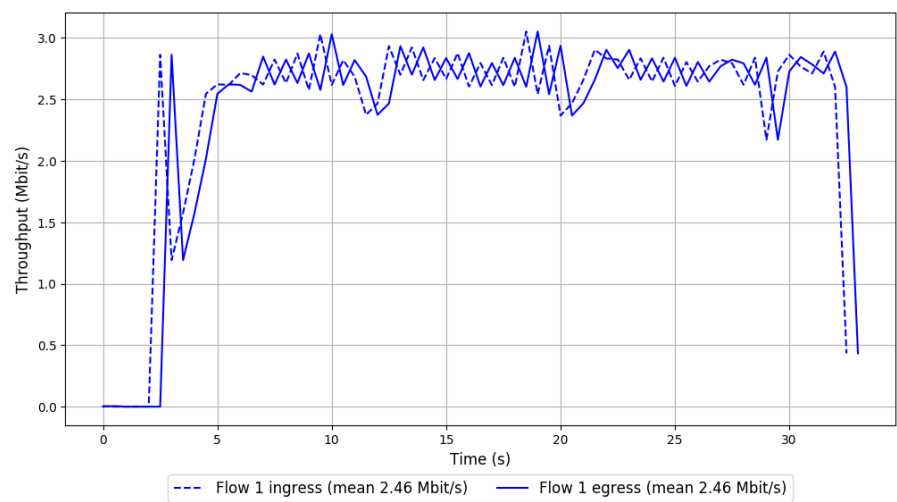


Run 5: Statistics of WebRTC media

Start at: 2018-05-22 11:04:01  
End at: 2018-05-22 11:04:31  
Local clock offset: -3.86 ms  
Remote clock offset: -8.288 ms

# Below is generated by plot.py at 2018-05-22 13:02:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 0.787 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 0.787 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-22 11:21:47

End at: 2018-05-22 11:22:17

Local clock offset: -1.618 ms

Remote clock offset: -6.98 ms

# Below is generated by plot.py at 2018-05-22 13:02:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 3.778 ms

Loss rate: 0.00%

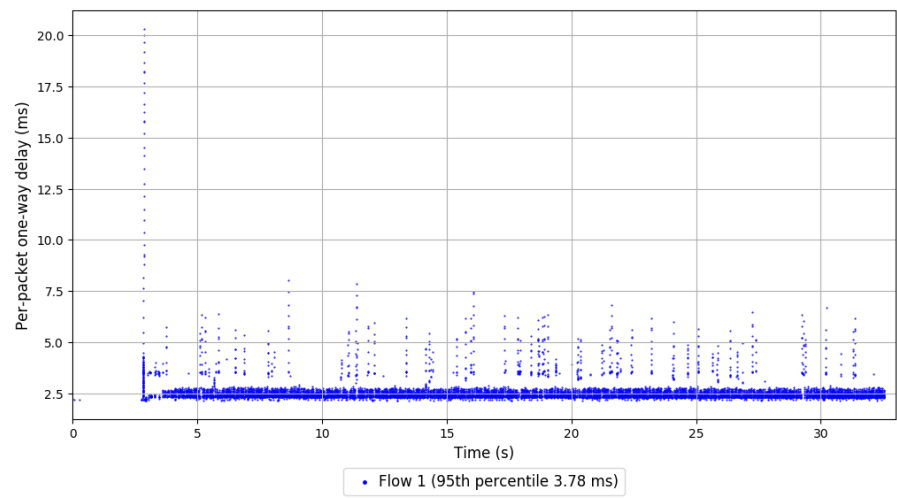
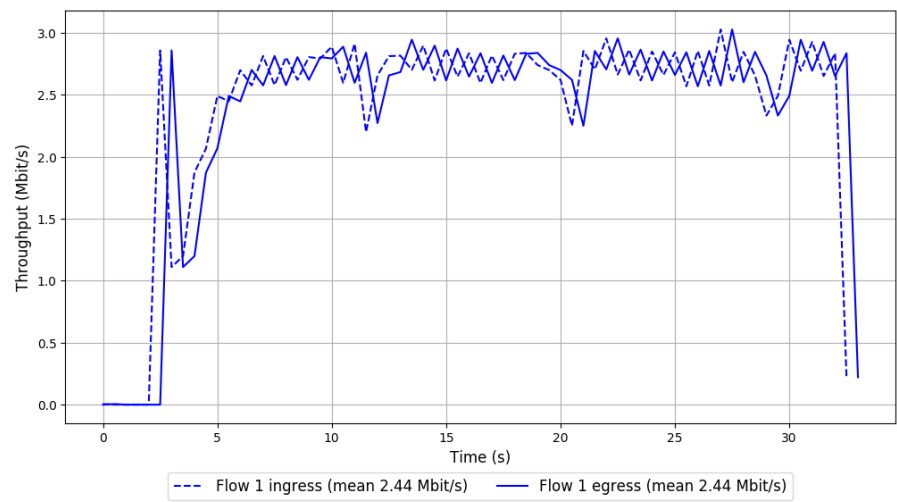
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 3.778 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

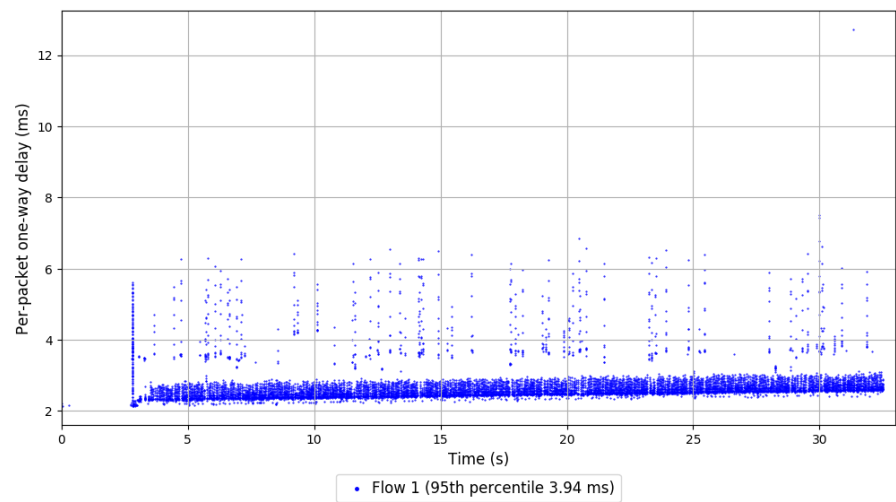
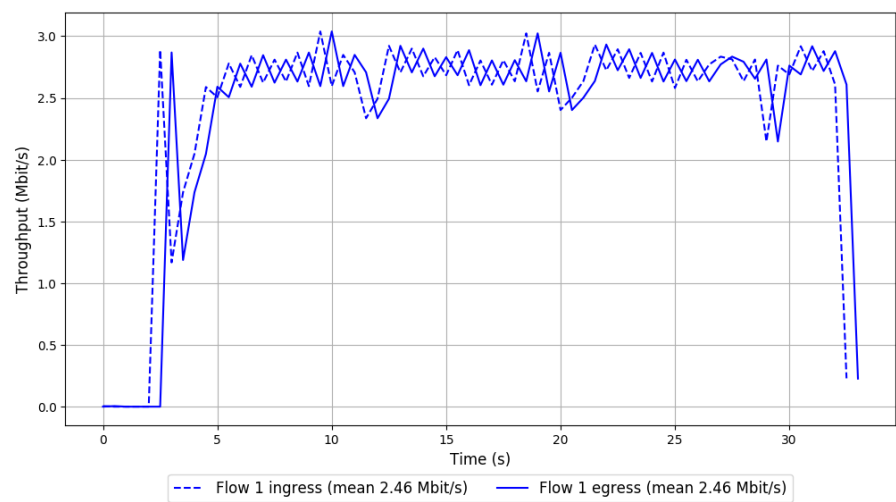


Run 7: Statistics of WebRTC media

Start at: 2018-05-22 11:39:24  
End at: 2018-05-22 11:39:55  
Local clock offset: -1.149 ms  
Remote clock offset: -6.722 ms

# Below is generated by plot.py at 2018-05-22 13:02:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 3.945 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 3.945 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

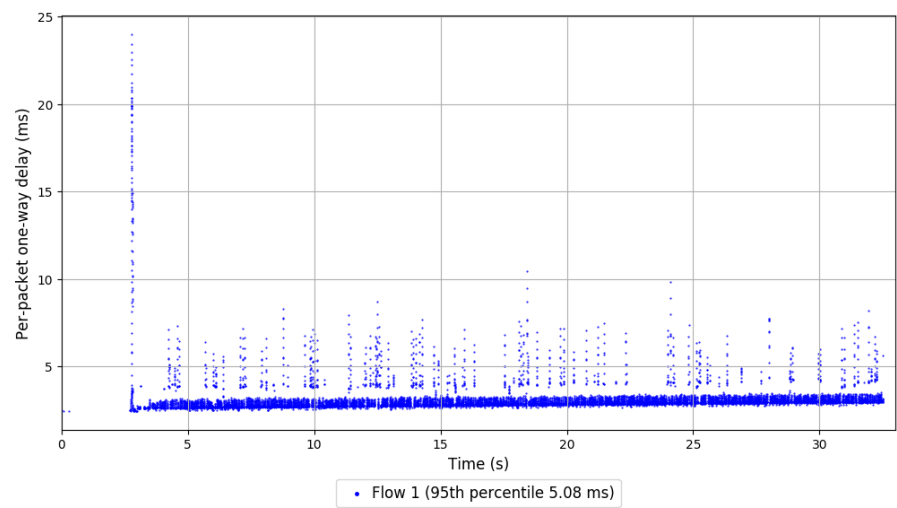
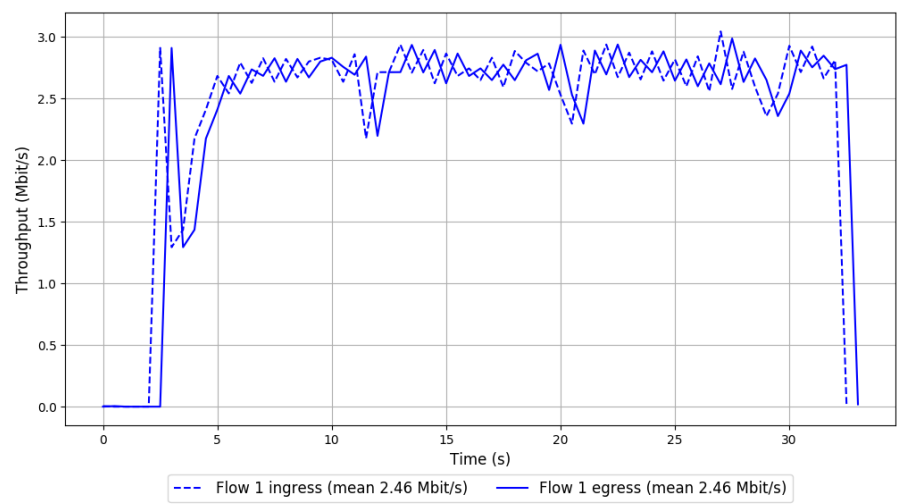


Run 8: Statistics of WebRTC media

Start at: 2018-05-22 11:56:55  
End at: 2018-05-22 11:57:25  
Local clock offset: -0.873 ms  
Remote clock offset: -1.351 ms

# Below is generated by plot.py at 2018-05-22 13:02:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 5.075 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 5.075 ms  
Loss rate: 0.02%

Run 8: Report of WebRTC media — Data Link

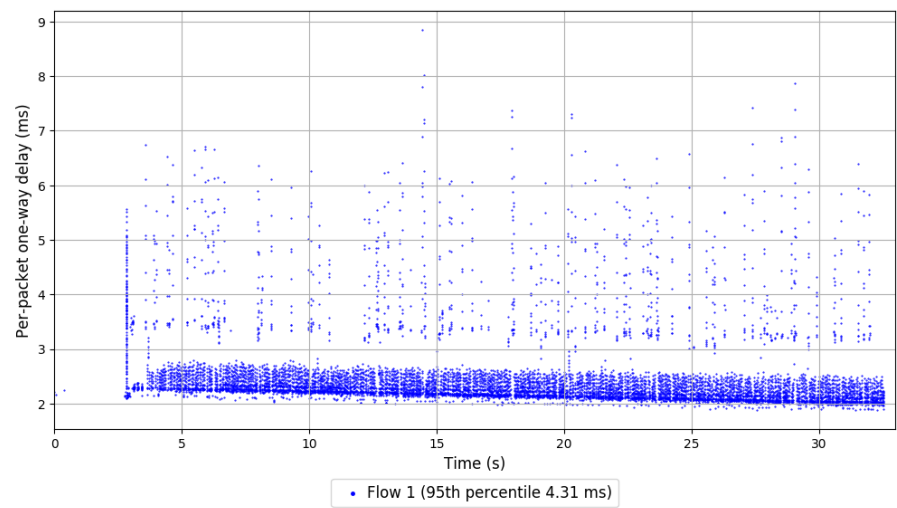
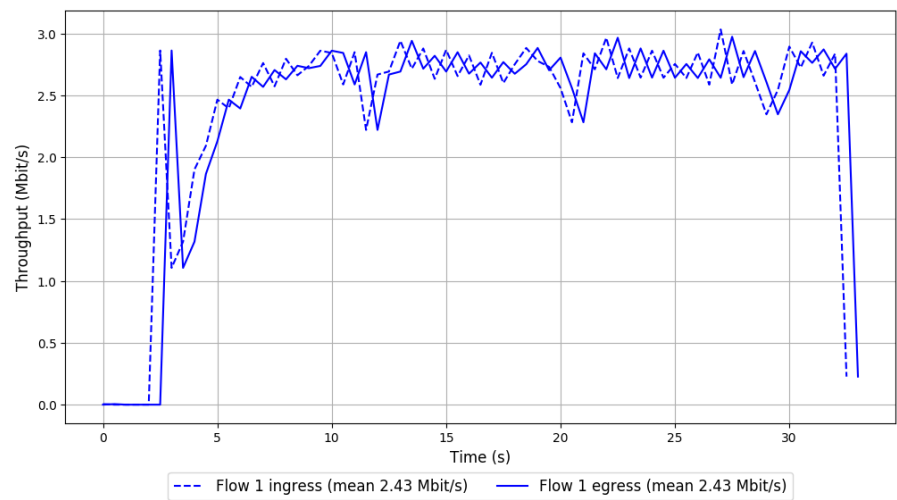


Run 9: Statistics of WebRTC media

Start at: 2018-05-22 12:14:34  
End at: 2018-05-22 12:15:04  
Local clock offset: -5.853 ms  
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2018-05-22 13:02:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.43 Mbit/s  
95th percentile per-packet one-way delay: 4.312 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.43 Mbit/s  
95th percentile per-packet one-way delay: 4.312 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 12:32:08

End at: 2018-05-22 12:32:38

Local clock offset: -6.358 ms

Remote clock offset: -6.165 ms

# Below is generated by plot.py at 2018-05-22 13:02:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 3.916 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 3.916 ms

Loss rate: 0.10%

Run 10: Report of WebRTC media — Data Link

