

## Pantheon Report

Generated at 2018-05-30 14:16:17 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

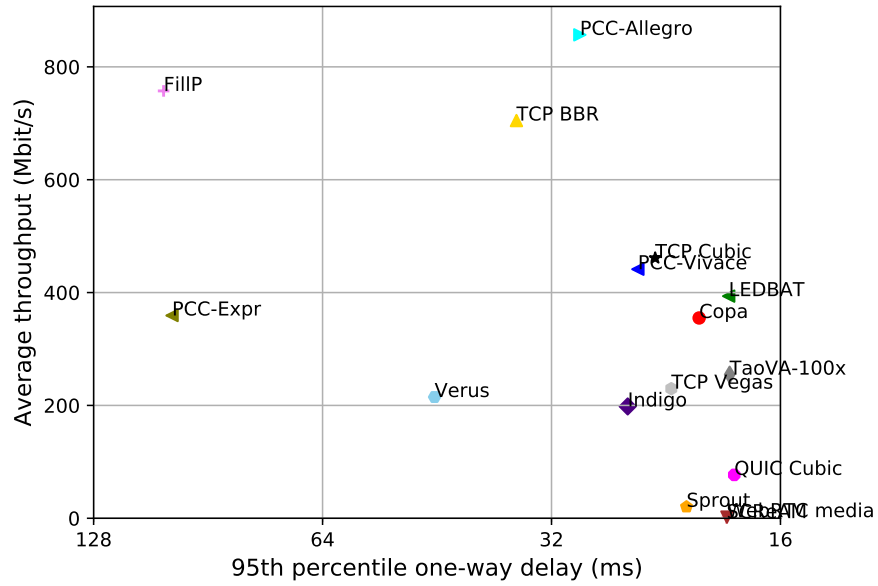
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

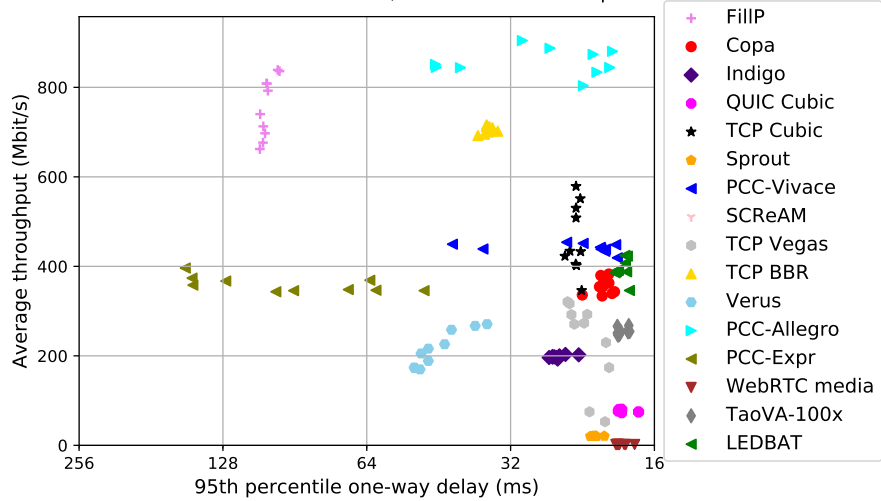
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
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
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS California 1 to Stanford, 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     | 704.85                           | 35.58                               | 0.31                         |
| Copa         | 10     | 354.97                           | 20.47                               | 0.00                         |
| TCP Cubic    | 10     | 461.18                           | 23.38                               | 0.06                         |
| FillP        | 10     | 757.36                           | 103.56                              | 3.66                         |
| Indigo       | 10     | 198.17                           | 25.41                               | 0.00                         |
| LEDBAT       | 10     | 393.68                           | 18.72                               | 0.00                         |
| PCC-Allegro  | 10     | 856.73                           | 29.37                               | 0.24                         |
| PCC-Expr     | 10     | 359.33                           | 100.95                              | 0.49                         |
| QUIC Cubic   | 10     | 76.90                            | 18.40                               | 0.00                         |
| SCReAM       | 10     | 0.22                             | 18.84                               | 0.00                         |
| Sprout       | 10     | 20.34                            | 21.27                               | 0.00                         |
| TaoVA-100x   | 10     | 254.53                           | 18.66                               | 0.00                         |
| TCP Vegas    | 10     | 229.71                           | 22.27                               | 0.09                         |
| Verus        | 10     | 214.88                           | 45.60                               | 17.67                        |
| PCC-Vivace   | 10     | 441.36                           | 24.64                               | 0.00                         |
| WebRTC media | 10     | 2.02                             | 18.82                               | 0.00                         |

Run 1: Statistics of TCP BBR

Start at: 2018-05-30 08:43:24

End at: 2018-05-30 08:43:54

Local clock offset: 0.302 ms

Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2018-05-30 12:45:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 692.29 Mbit/s

95th percentile per-packet one-way delay: 37.451 ms

Loss rate: 0.36%

-- Flow 1:

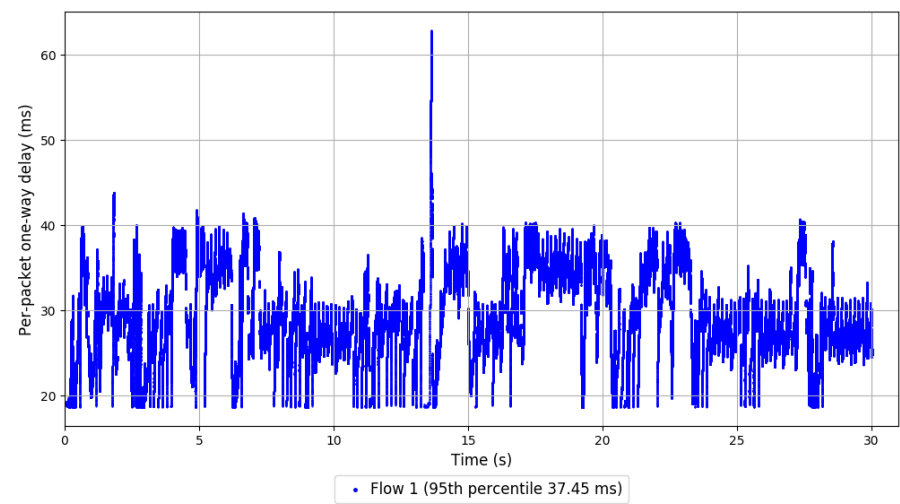
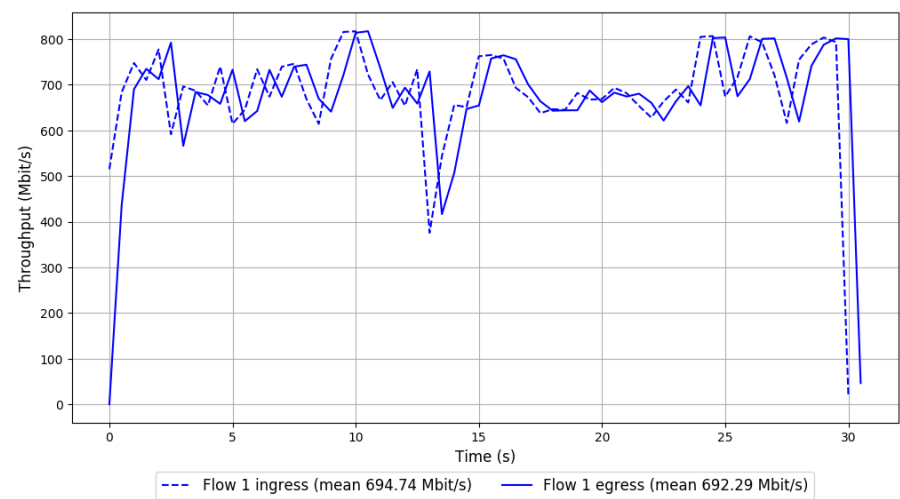
Average throughput: 692.29 Mbit/s

95th percentile per-packet one-way delay: 37.451 ms

Loss rate: 0.36%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-30 09:07:26

End at: 2018-05-30 09:07:56

Local clock offset: 0.12 ms

Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-05-30 12:45:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 716.30 Mbit/s

95th percentile per-packet one-way delay: 35.929 ms

Loss rate: 0.22%

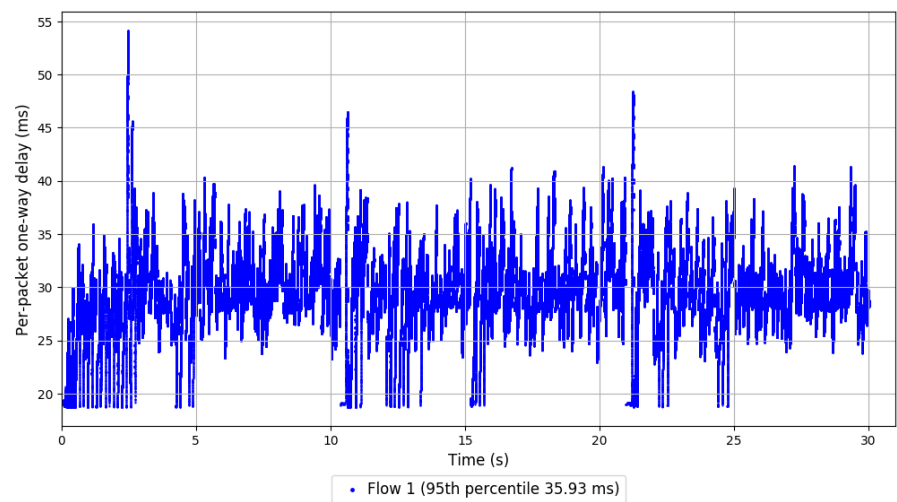
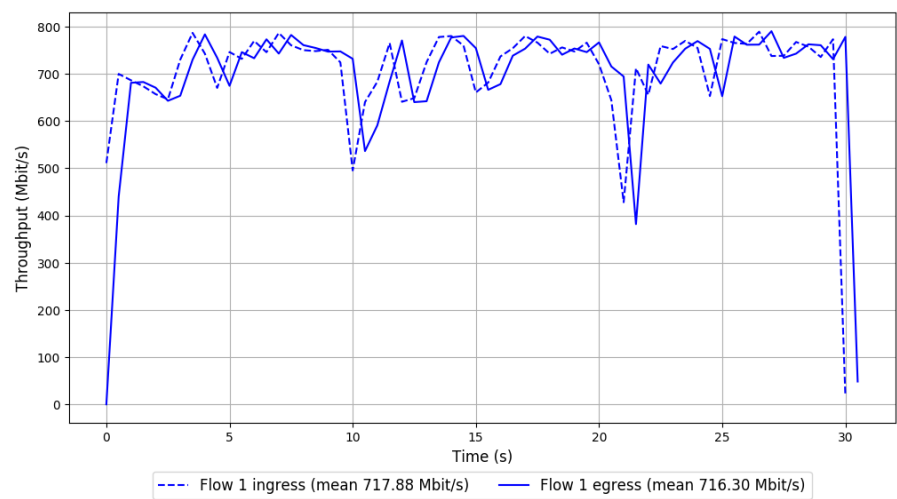
-- Flow 1:

Average throughput: 716.30 Mbit/s

95th percentile per-packet one-way delay: 35.929 ms

Loss rate: 0.22%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-30 09:31:32

End at: 2018-05-30 09:32:02

Local clock offset: 0.271 ms

Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-05-30 12:45:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 711.98 Mbit/s

95th percentile per-packet one-way delay: 35.958 ms

Loss rate: 0.32%

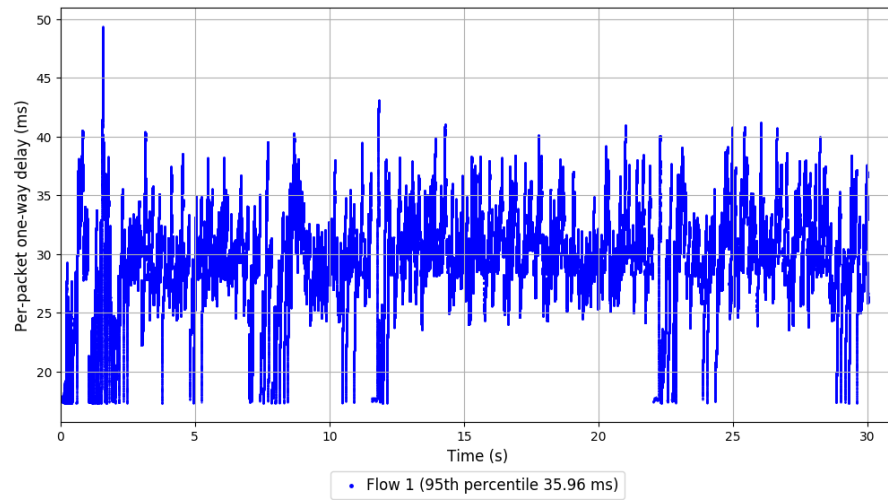
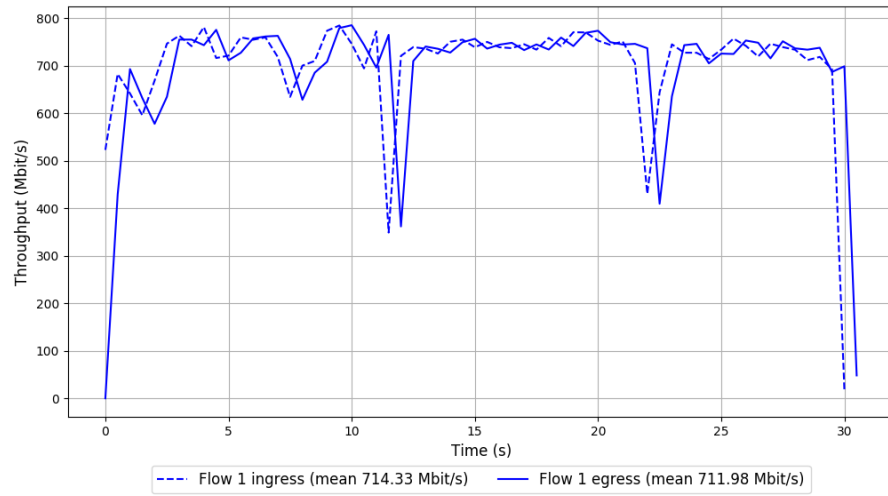
-- Flow 1:

Average throughput: 711.98 Mbit/s

95th percentile per-packet one-way delay: 35.958 ms

Loss rate: 0.32%

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



Run 4: Statistics of TCP BBR

Start at: 2018-05-30 09:55:45

End at: 2018-05-30 09:56:15

Local clock offset: 0.552 ms

Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-05-30 12:45:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 704.61 Mbit/s

95th percentile per-packet one-way delay: 35.044 ms

Loss rate: 0.29%

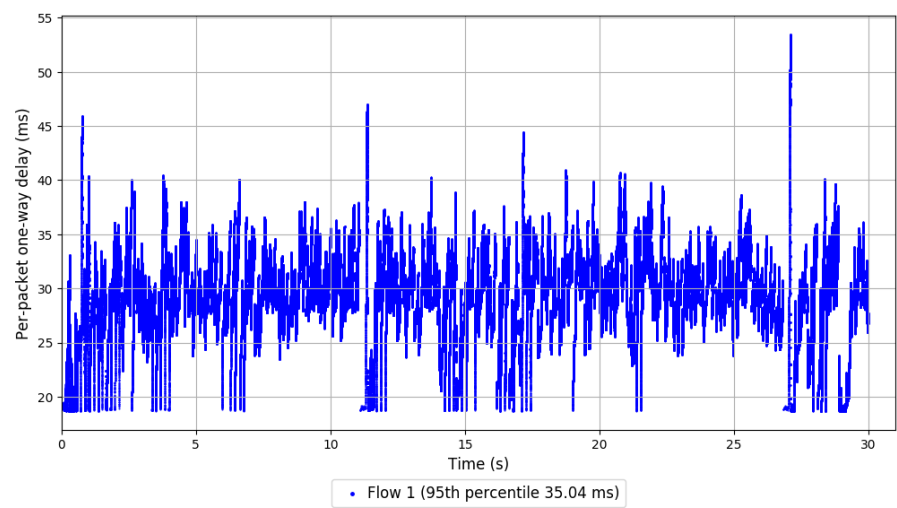
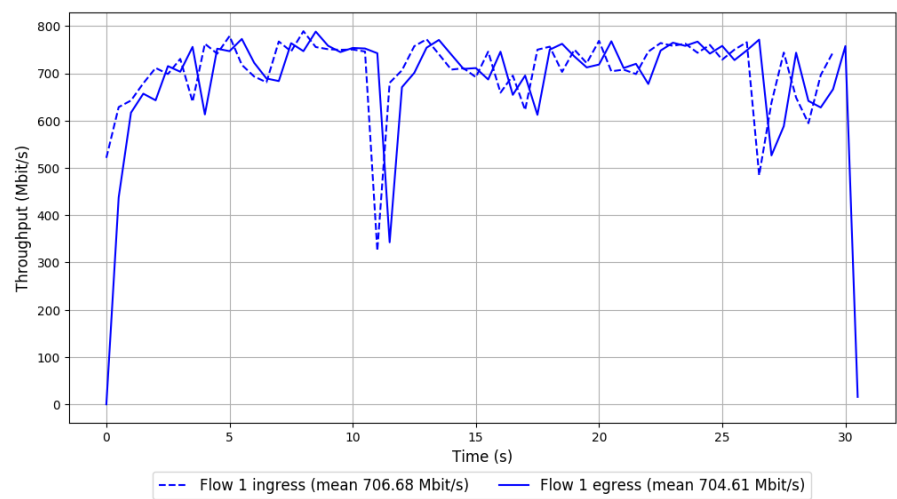
-- Flow 1:

Average throughput: 704.61 Mbit/s

95th percentile per-packet one-way delay: 35.044 ms

Loss rate: 0.29%

Run 4: Report of TCP BBR — Data Link



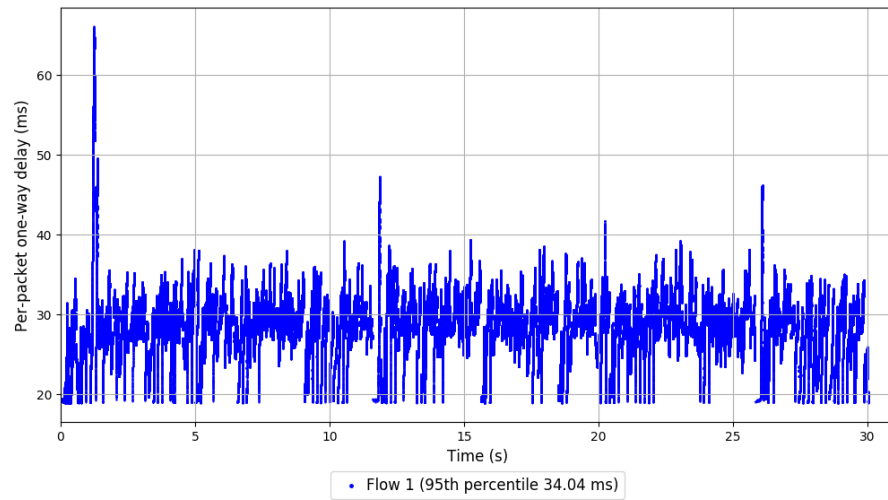
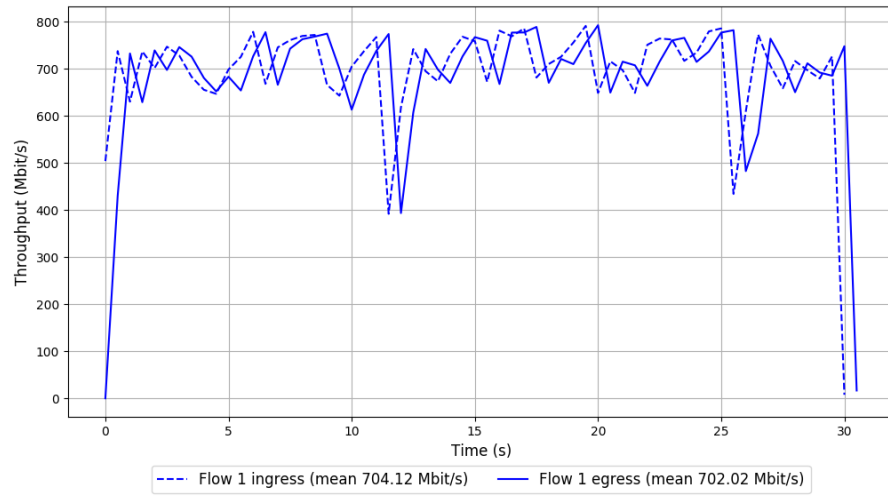
Run 5: Statistics of TCP BBR

Start at: 2018-05-30 10:19:39  
End at: 2018-05-30 10:20:09  
Local clock offset: 0.417 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-05-30 12:45:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 702.02 Mbit/s  
95th percentile per-packet one-way delay: 34.038 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 702.02 Mbit/s  
95th percentile per-packet one-way delay: 34.038 ms  
Loss rate: 0.30%



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



Run 6: Statistics of TCP BBR

Start at: 2018-05-30 10:43:42

End at: 2018-05-30 10:44:12

Local clock offset: 0.485 ms

Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-05-30 12:45:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 704.08 Mbit/s

95th percentile per-packet one-way delay: 35.056 ms

Loss rate: 0.32%

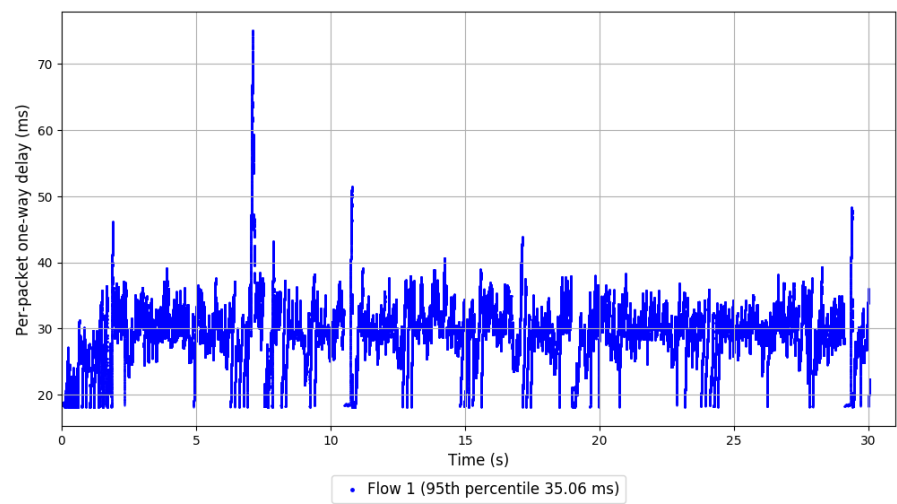
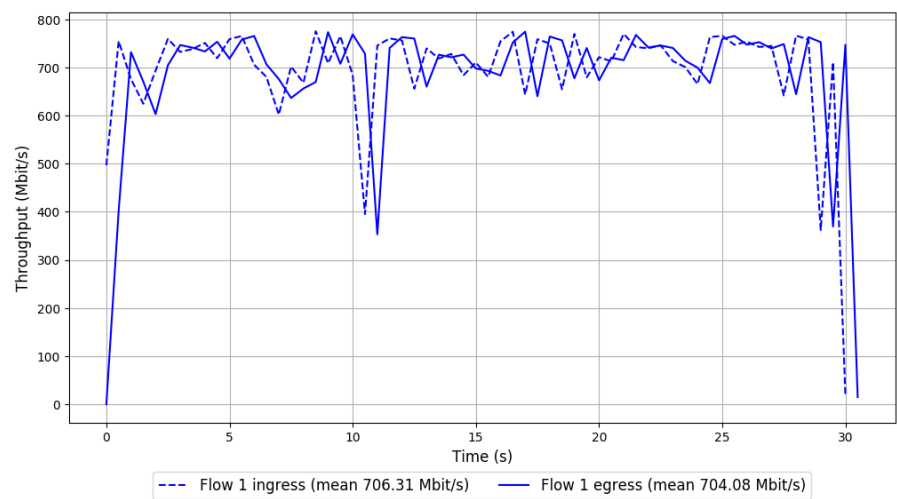
-- Flow 1:

Average throughput: 704.08 Mbit/s

95th percentile per-packet one-way delay: 35.056 ms

Loss rate: 0.32%

Run 6: Report of TCP BBR — Data Link

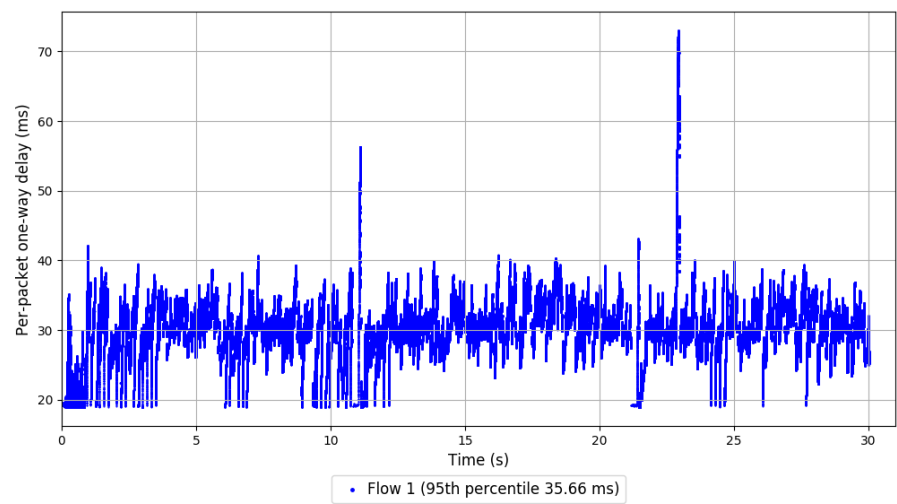
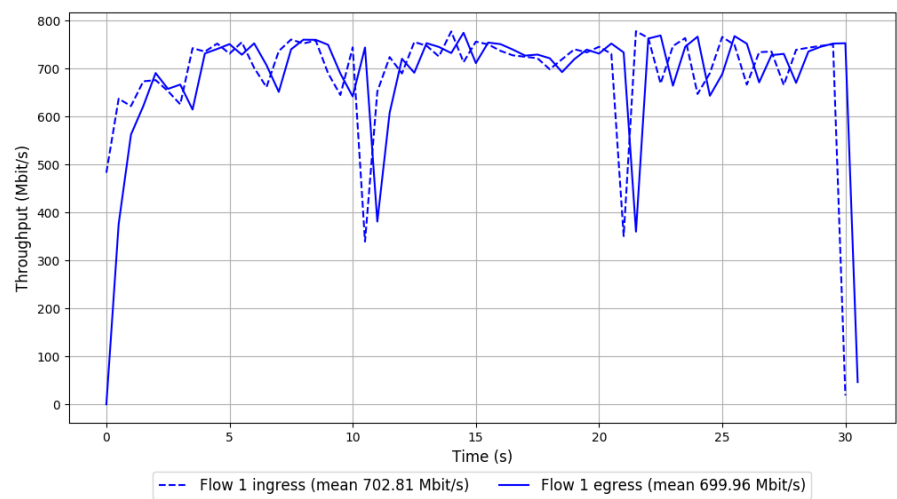


Run 7: Statistics of TCP BBR

Start at: 2018-05-30 11:07:36  
End at: 2018-05-30 11:08:06  
Local clock offset: 0.415 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-05-30 12:45:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 699.96 Mbit/s  
95th percentile per-packet one-way delay: 35.661 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 699.96 Mbit/s  
95th percentile per-packet one-way delay: 35.661 ms  
Loss rate: 0.41%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-30 11:31:28

End at: 2018-05-30 11:31:58

Local clock offset: 0.483 ms

Remote clock offset: -0.699 ms

# Below is generated by plot.py at 2018-05-30 12:45:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 712.22 Mbit/s

95th percentile per-packet one-way delay: 35.470 ms

Loss rate: 0.32%

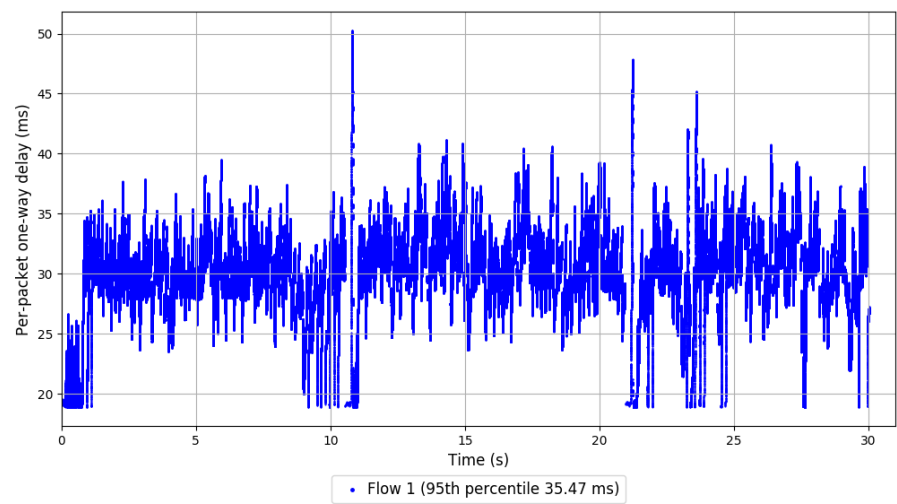
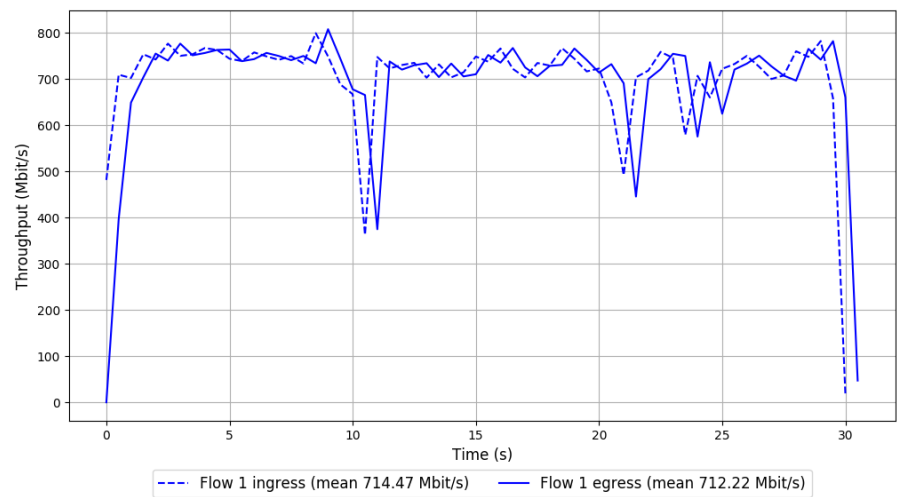
-- Flow 1:

Average throughput: 712.22 Mbit/s

95th percentile per-packet one-way delay: 35.470 ms

Loss rate: 0.32%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-30 11:55:26

End at: 2018-05-30 11:55:56

Local clock offset: 0.41 ms

Remote clock offset: -1.012 ms

# Below is generated by plot.py at 2018-05-30 12:53:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 695.39 Mbit/s

95th percentile per-packet one-way delay: 36.288 ms

Loss rate: 0.26%

-- Flow 1:

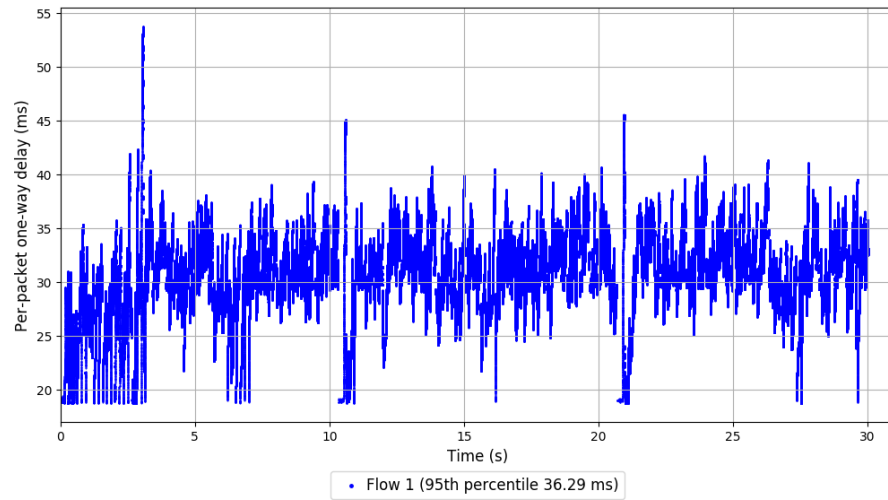
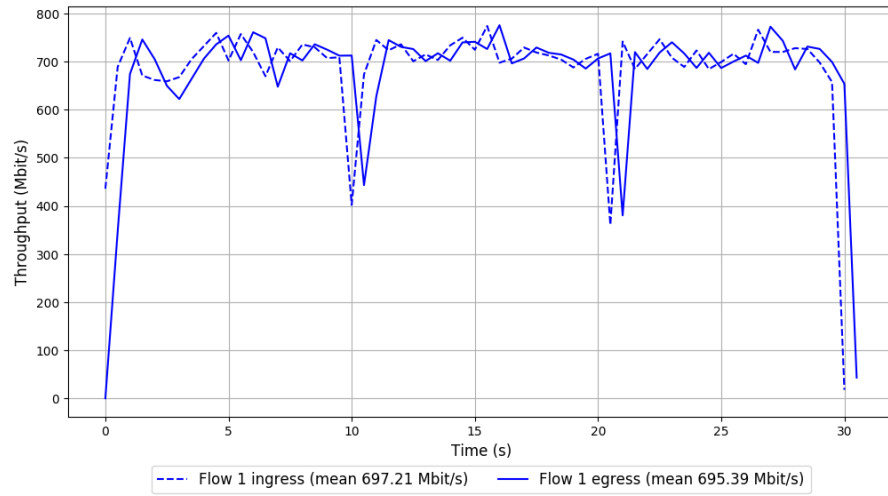
Average throughput: 695.39 Mbit/s

95th percentile per-packet one-way delay: 36.288 ms

Loss rate: 0.26%



### Run 9: Report of TCP BBR — Data Link

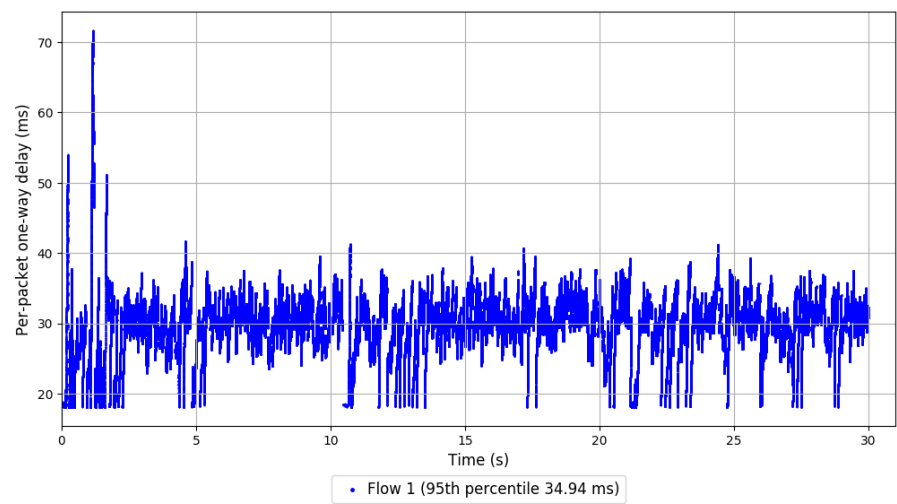
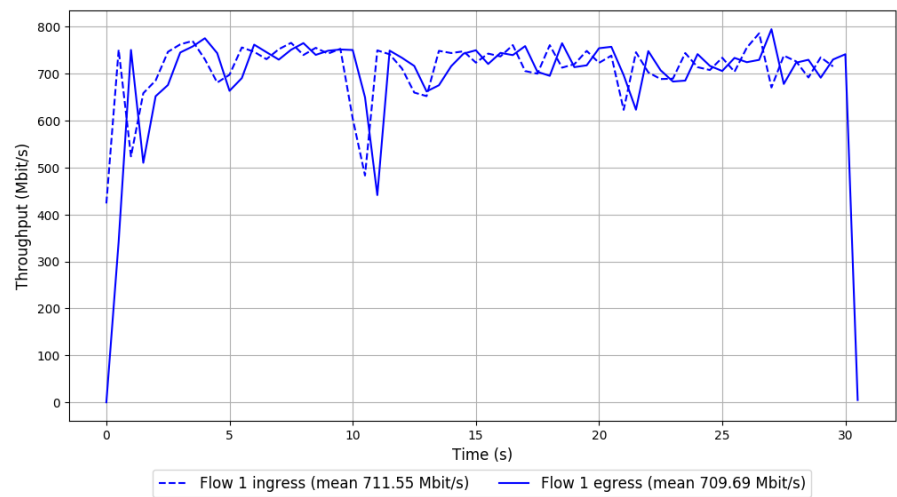


Run 10: Statistics of TCP BBR

Start at: 2018-05-30 12:19:22  
End at: 2018-05-30 12:19:53  
Local clock offset: -0.001 ms  
Remote clock offset: -1.372 ms

# Below is generated by plot.py at 2018-05-30 12:54:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 709.69 Mbit/s  
95th percentile per-packet one-way delay: 34.940 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 709.69 Mbit/s  
95th percentile per-packet one-way delay: 34.940 ms  
Loss rate: 0.26%

Run 10: Report of TCP BBR — Data Link

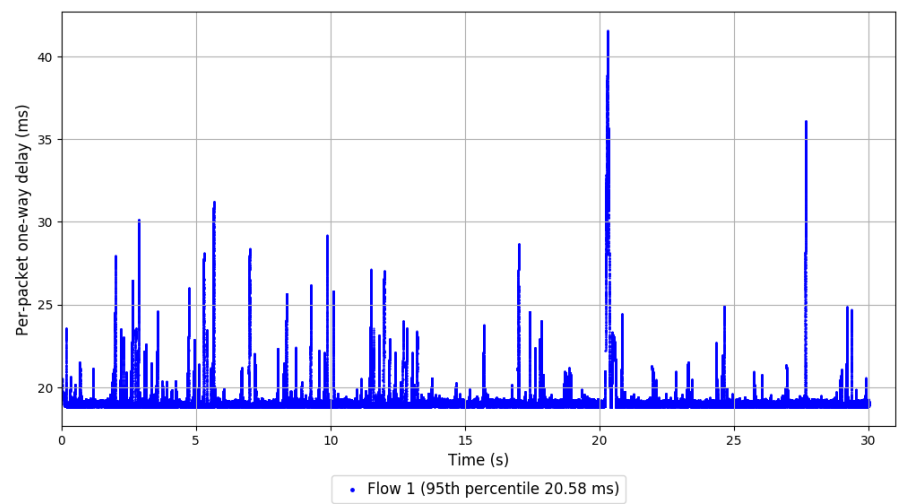
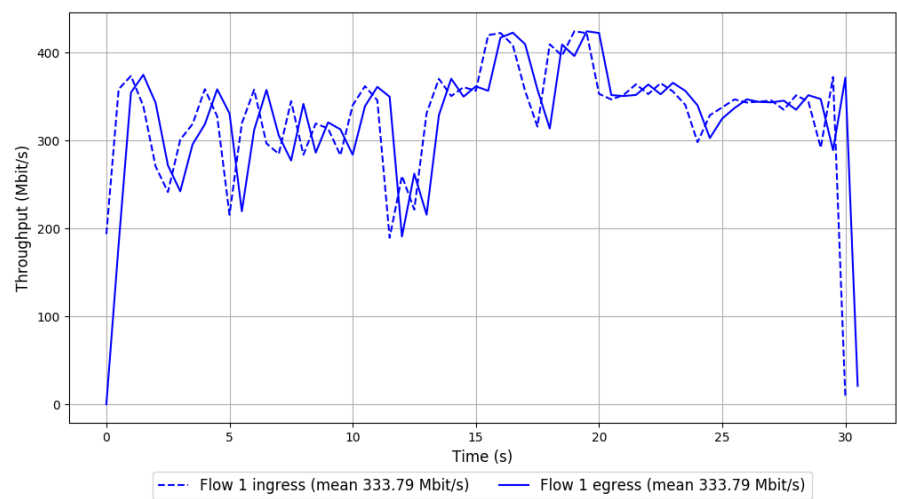


Run 1: Statistics of Copa

Start at: 2018-05-30 08:37:29  
End at: 2018-05-30 08:37:59  
Local clock offset: 0.276 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-05-30 12:54:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 333.79 Mbit/s  
95th percentile per-packet one-way delay: 20.583 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 333.79 Mbit/s  
95th percentile per-packet one-way delay: 20.583 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-30 09:01:31

End at: 2018-05-30 09:02:01

Local clock offset: 0.157 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-05-30 12:54:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 343.27 Mbit/s

95th percentile per-packet one-way delay: 19.393 ms

Loss rate: 0.00%

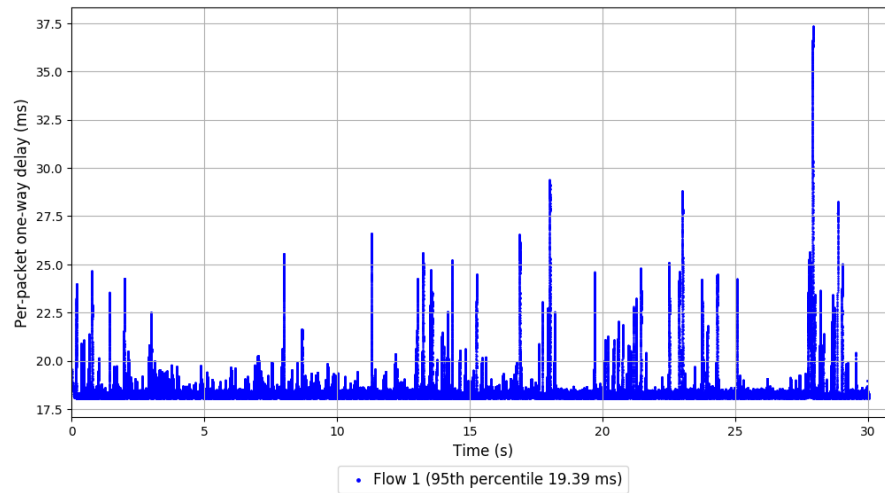
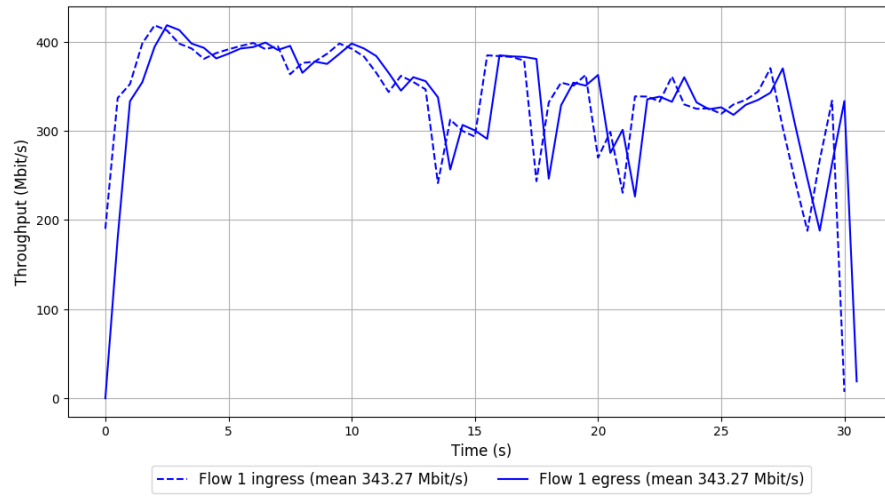
-- Flow 1:

Average throughput: 343.27 Mbit/s

95th percentile per-packet one-way delay: 19.393 ms

Loss rate: 0.00%

## Run 2: Report of Copa — Data Link



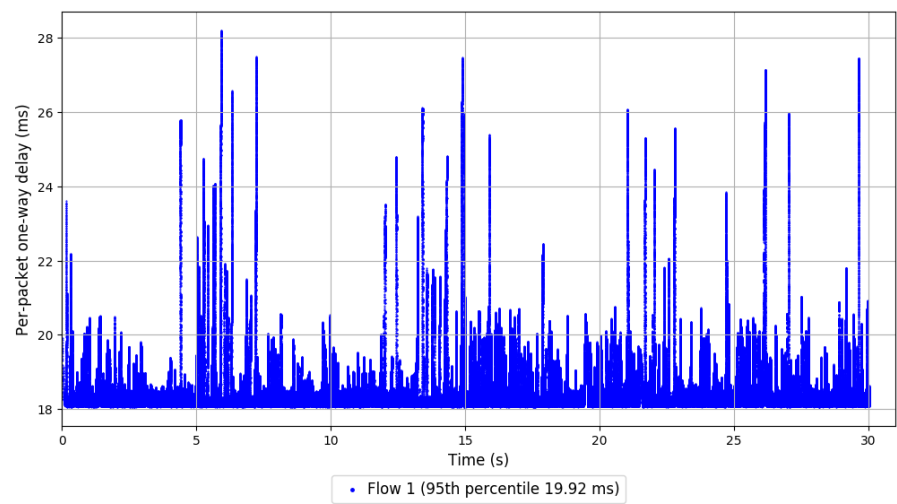
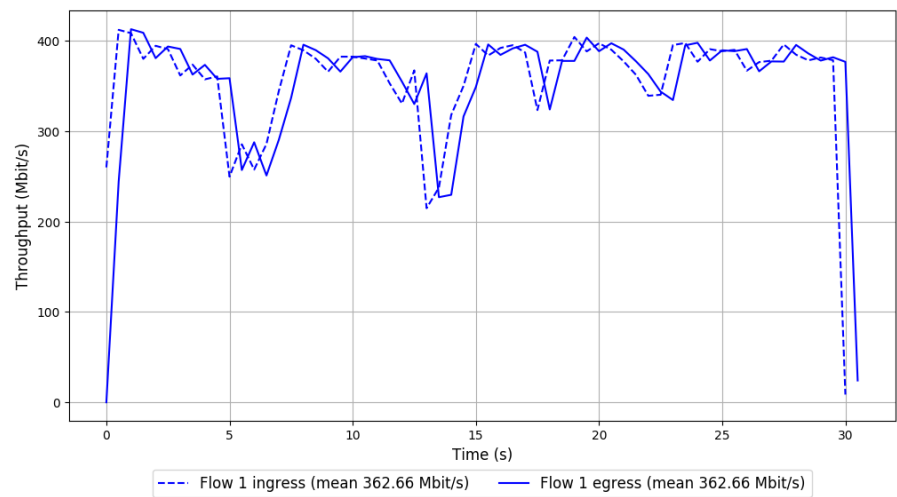
Run 3: Statistics of Copa

Start at: 2018-05-30 09:25:33  
End at: 2018-05-30 09:26:03  
Local clock offset: 0.193 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-05-30 12:54:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 362.66 Mbit/s  
95th percentile per-packet one-way delay: 19.922 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 362.66 Mbit/s  
95th percentile per-packet one-way delay: 19.922 ms  
Loss rate: 0.00%



Run 3: Report of Copa — Data Link

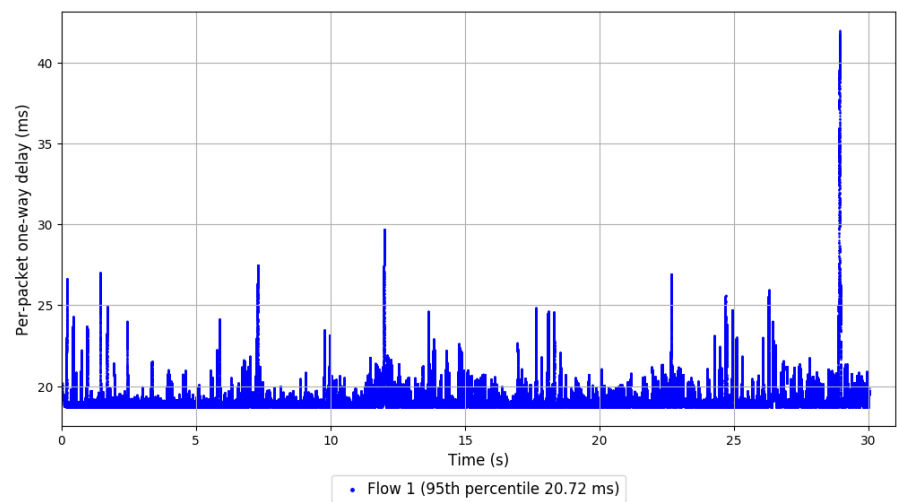
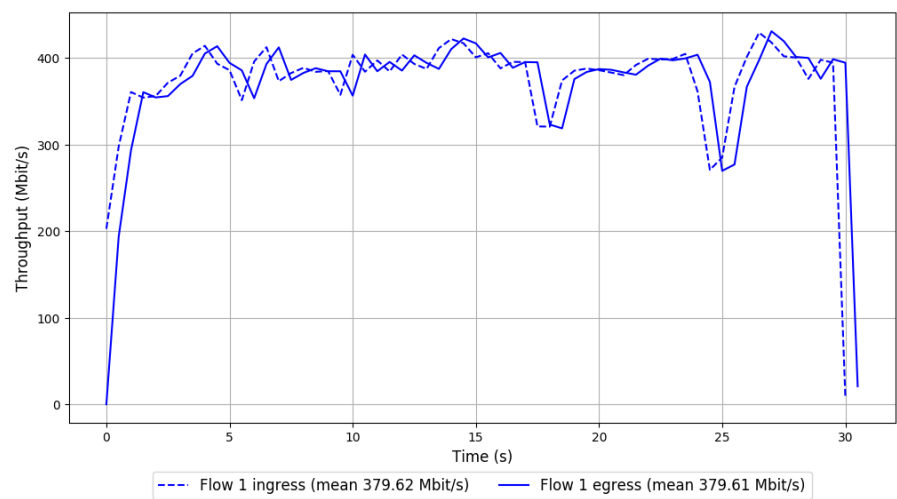


Run 4: Statistics of Copa

Start at: 2018-05-30 09:49:48  
End at: 2018-05-30 09:50:18  
Local clock offset: 0.527 ms  
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-05-30 12:54:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 379.61 Mbit/s  
95th percentile per-packet one-way delay: 20.718 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 379.61 Mbit/s  
95th percentile per-packet one-way delay: 20.718 ms  
Loss rate: 0.01%

Run 4: Report of Copa — Data Link

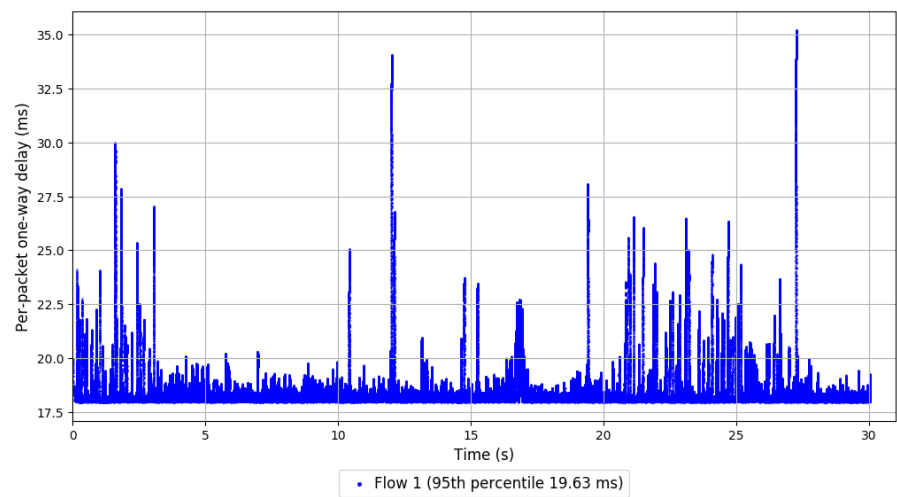
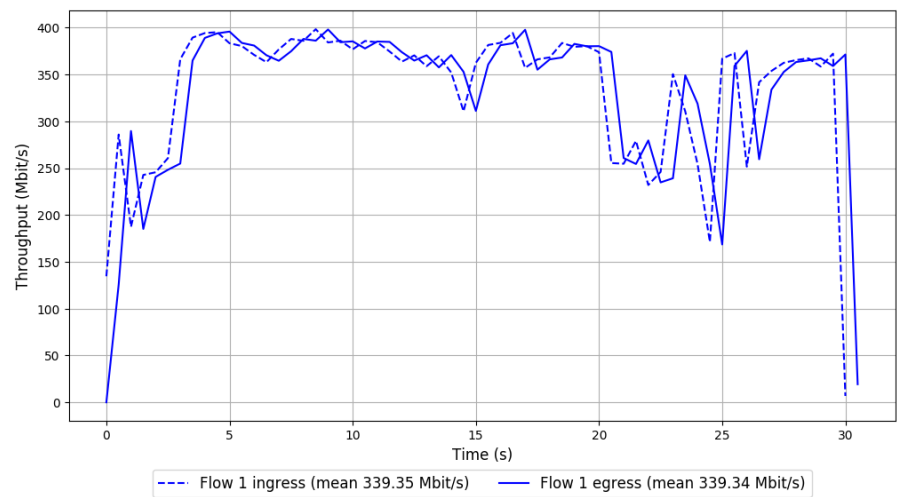


Run 5: Statistics of Copa

Start at: 2018-05-30 10:13:40  
End at: 2018-05-30 10:14:10  
Local clock offset: 0.395 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-05-30 12:54:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 339.34 Mbit/s  
95th percentile per-packet one-way delay: 19.631 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 339.34 Mbit/s  
95th percentile per-packet one-way delay: 19.631 ms  
Loss rate: 0.01%

Run 5: Report of Copa — Data Link

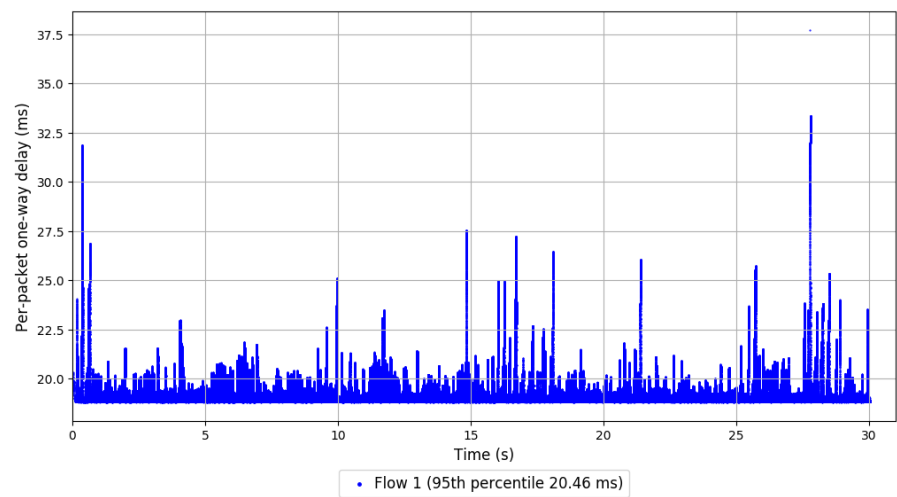
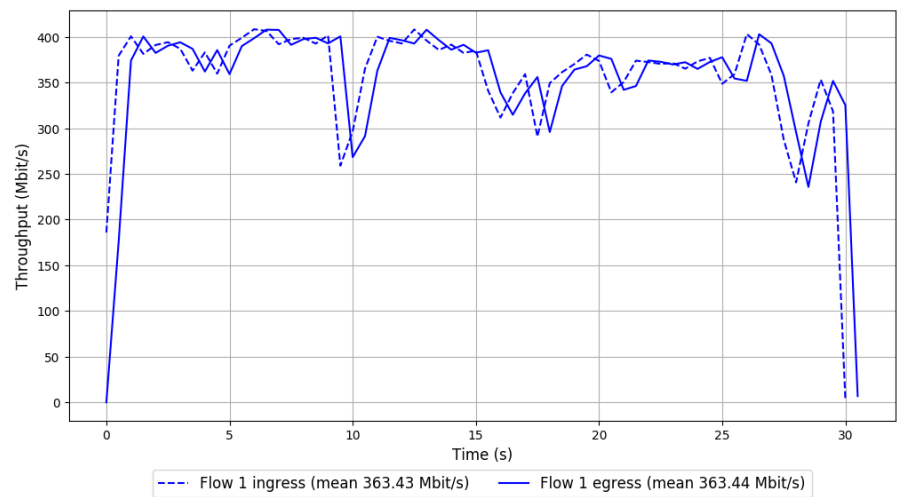


Run 6: Statistics of Copa

Start at: 2018-05-30 10:37:43  
End at: 2018-05-30 10:38:13  
Local clock offset: 0.54 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-05-30 12:54:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 363.44 Mbit/s  
95th percentile per-packet one-way delay: 20.462 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 363.44 Mbit/s  
95th percentile per-packet one-way delay: 20.462 ms  
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



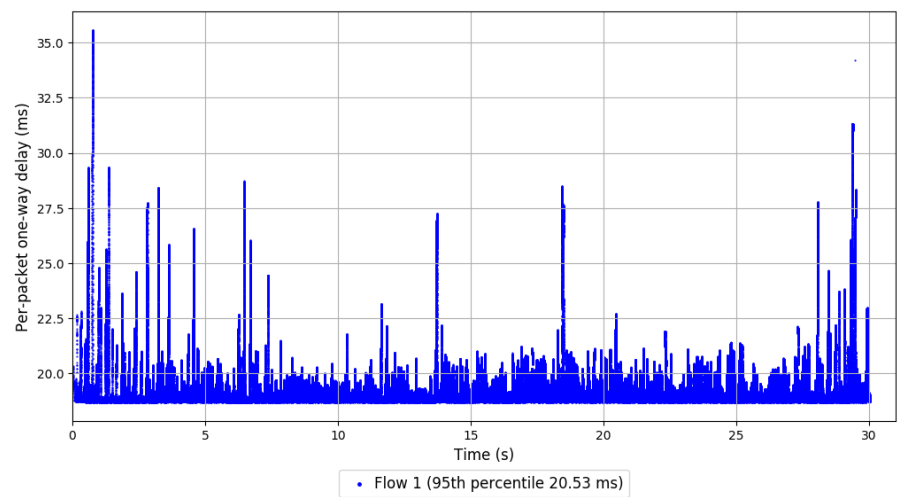
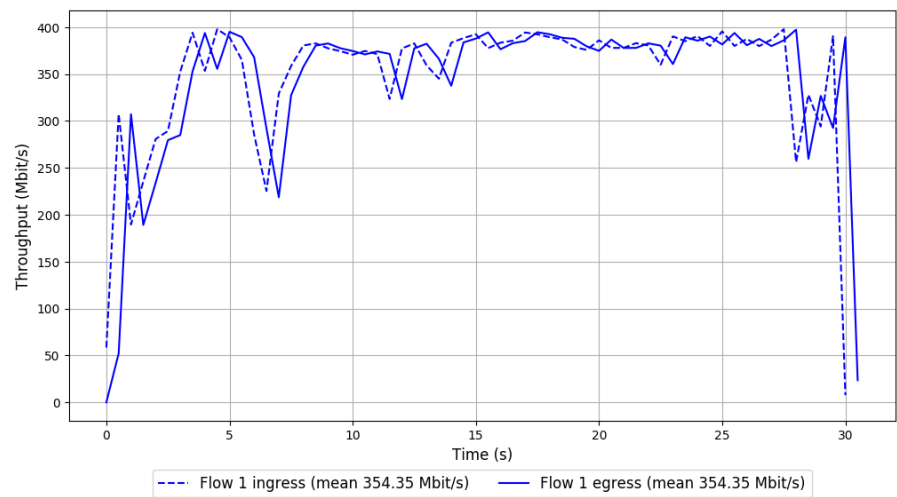
Run 7: Statistics of Copa

Start at: 2018-05-30 11:01:41  
End at: 2018-05-30 11:02:11  
Local clock offset: 0.427 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2018-05-30 13:01:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 354.35 Mbit/s  
95th percentile per-packet one-way delay: 20.528 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 354.35 Mbit/s  
95th percentile per-packet one-way delay: 20.528 ms  
Loss rate: 0.00%



Run 7: Report of Copa — Data Link

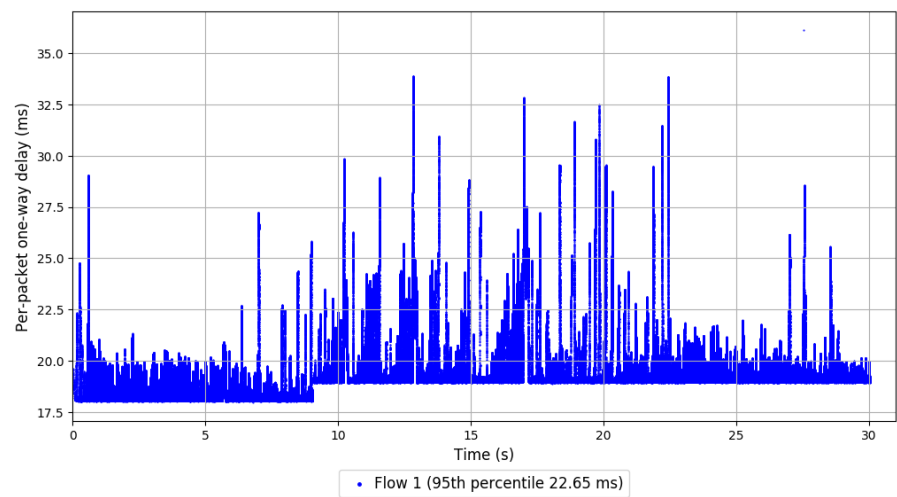
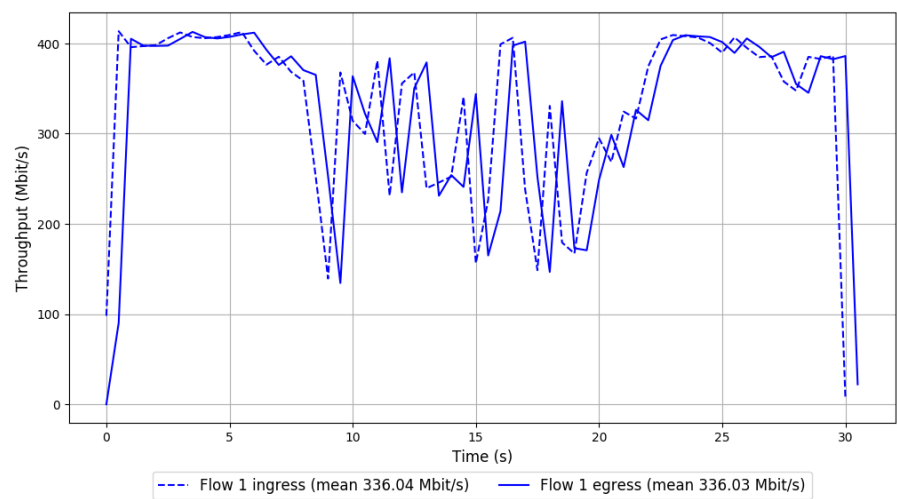


Run 8: Statistics of Copa

Start at: 2018-05-30 11:25:36  
End at: 2018-05-30 11:26:06  
Local clock offset: 0.41 ms  
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-05-30 13:01:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 336.03 Mbit/s  
95th percentile per-packet one-way delay: 22.652 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 336.03 Mbit/s  
95th percentile per-packet one-way delay: 22.652 ms  
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

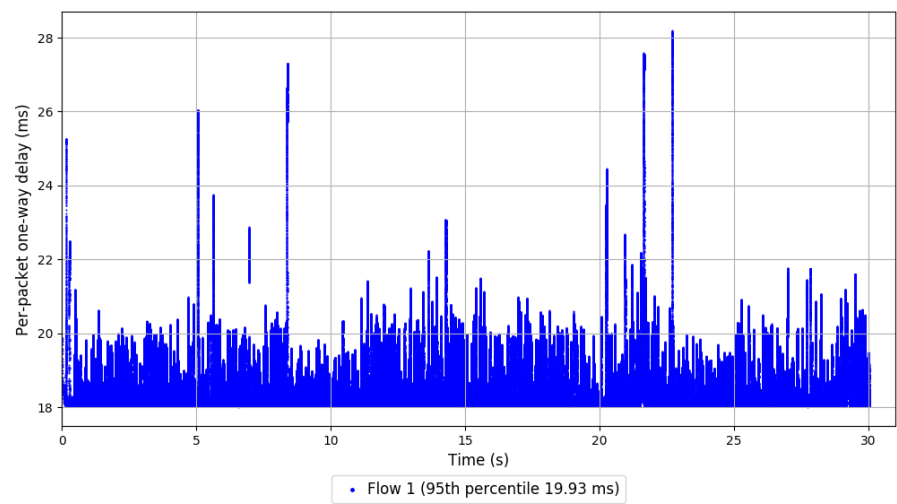
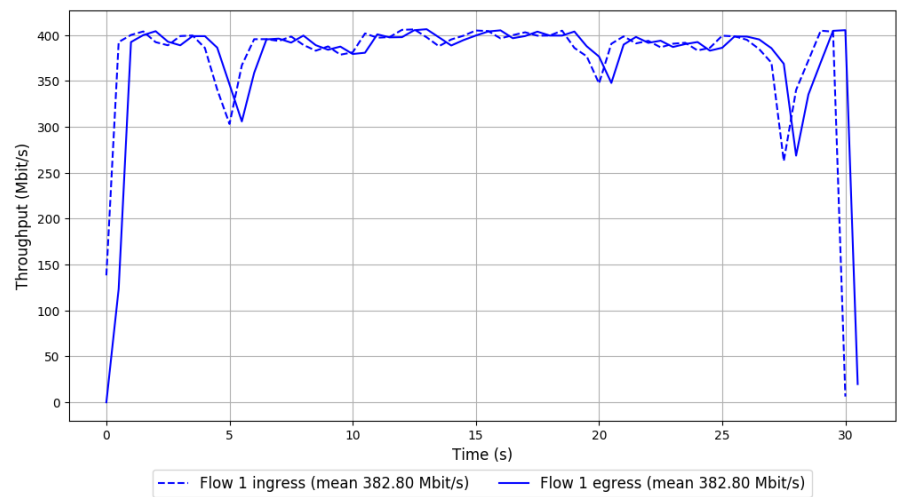


Run 9: Statistics of Copa

Start at: 2018-05-30 11:49:27  
End at: 2018-05-30 11:49:57  
Local clock offset: 0.387 ms  
Remote clock offset: -0.949 ms

# Below is generated by plot.py at 2018-05-30 13:02:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 382.80 Mbit/s  
95th percentile per-packet one-way delay: 19.930 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 382.80 Mbit/s  
95th percentile per-packet one-way delay: 19.930 ms  
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-30 12:13:26

End at: 2018-05-30 12:13:56

Local clock offset: 0.14 ms

Remote clock offset: -1.25 ms

# Below is generated by plot.py at 2018-05-30 13:02:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 354.45 Mbit/s

95th percentile per-packet one-way delay: 20.851 ms

Loss rate: 0.00%

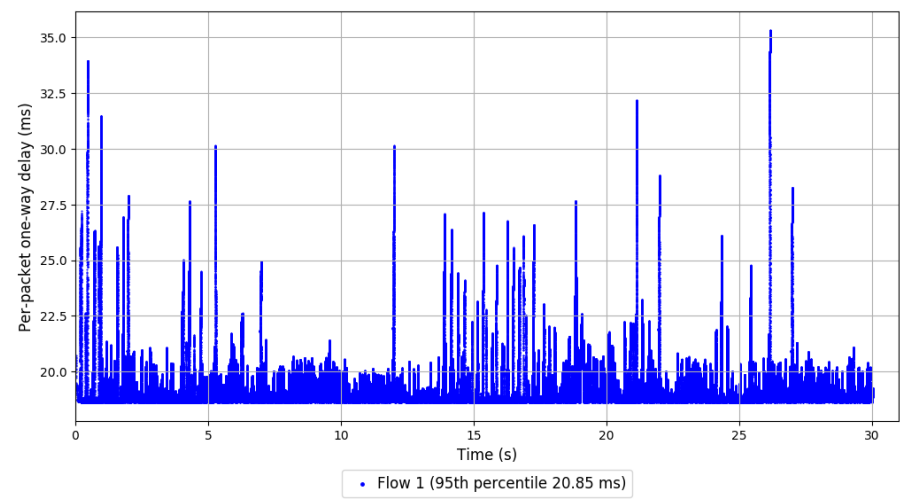
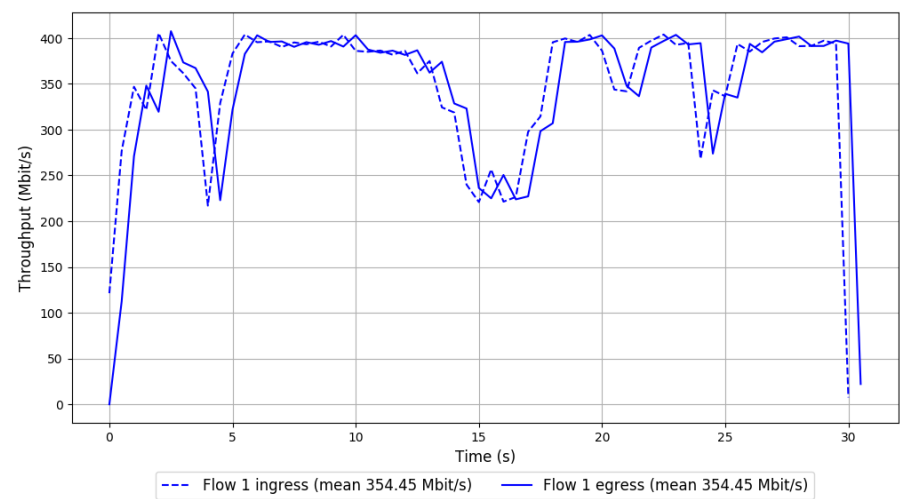
-- Flow 1:

Average throughput: 354.45 Mbit/s

95th percentile per-packet one-way delay: 20.851 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 08:35:58

End at: 2018-05-30 08:36:28

Local clock offset: 0.261 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-05-30 13:02:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 433.04 Mbit/s

95th percentile per-packet one-way delay: 22.825 ms

Loss rate: 0.05%

-- Flow 1:

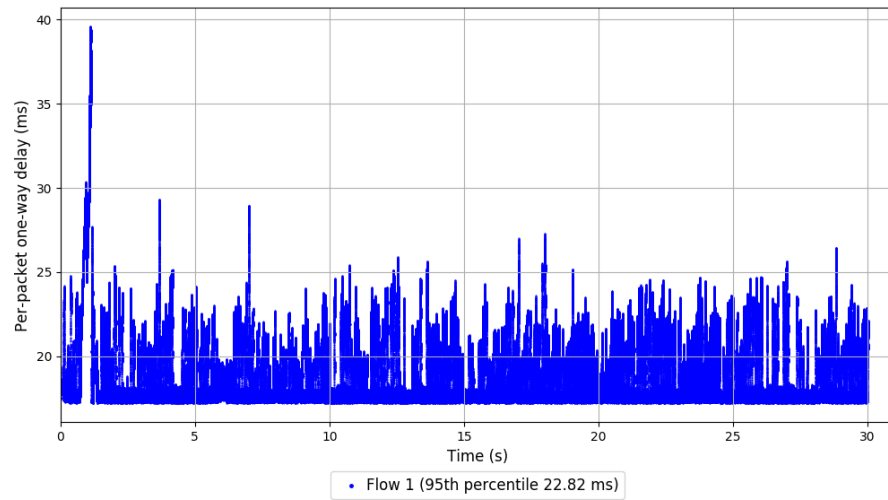
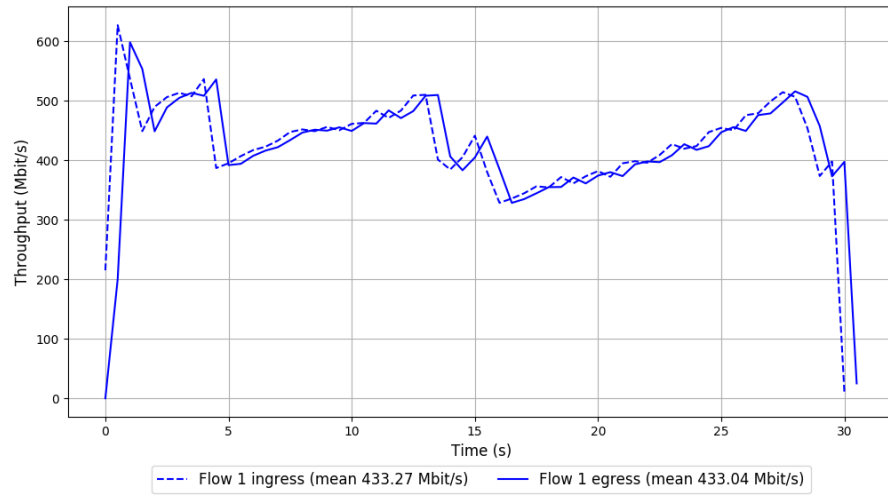
Average throughput: 433.04 Mbit/s

95th percentile per-packet one-way delay: 22.825 ms

Loss rate: 0.05%



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



Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 08:59:57

End at: 2018-05-30 09:00:27

Local clock offset: 0.15 ms

Remote clock offset: 0.122 ms

# Below is generated by plot.py at 2018-05-30 13:02:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 508.40 Mbit/s

95th percentile per-packet one-way delay: 23.345 ms

Loss rate: 0.07%

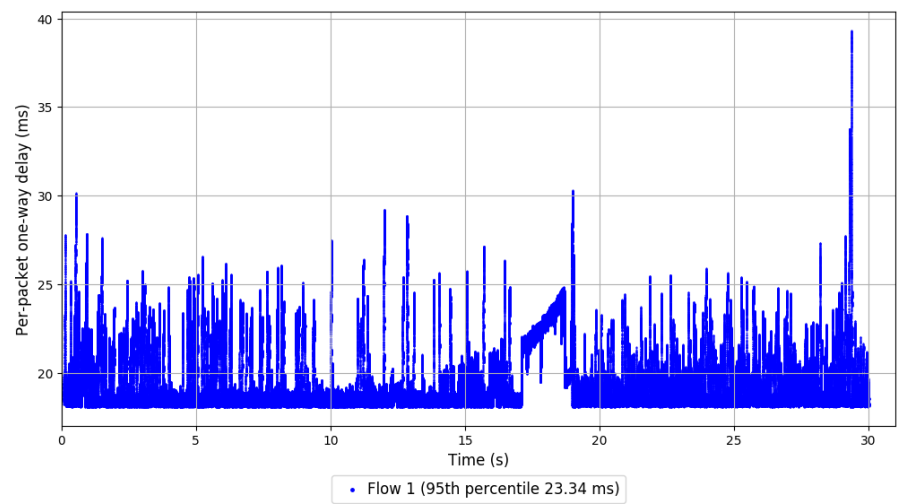
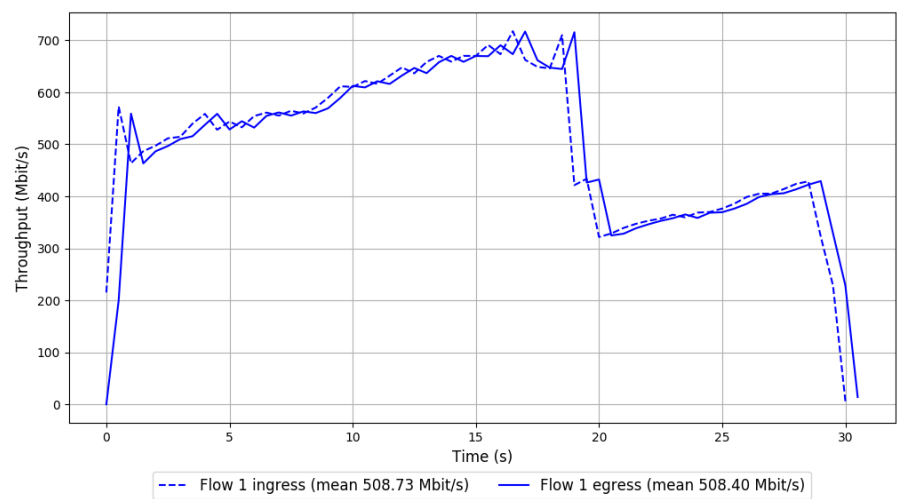
-- Flow 1:

Average throughput: 508.40 Mbit/s

95th percentile per-packet one-way delay: 23.345 ms

Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link

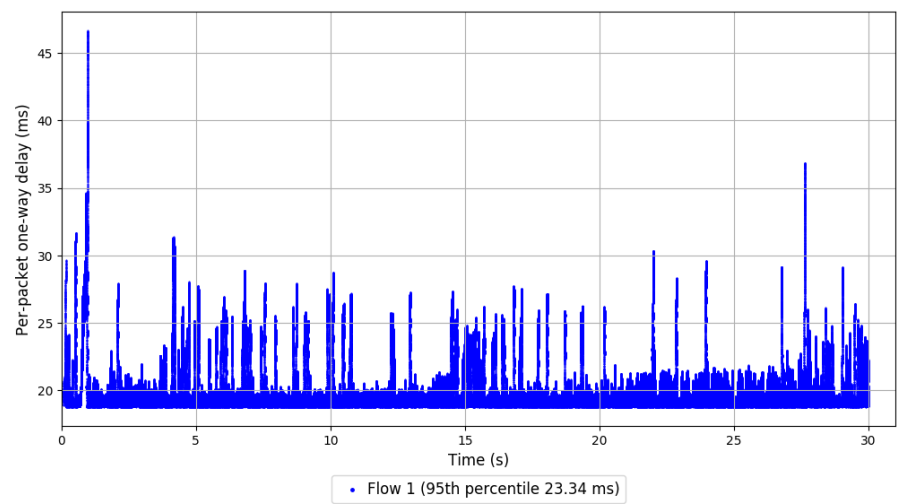
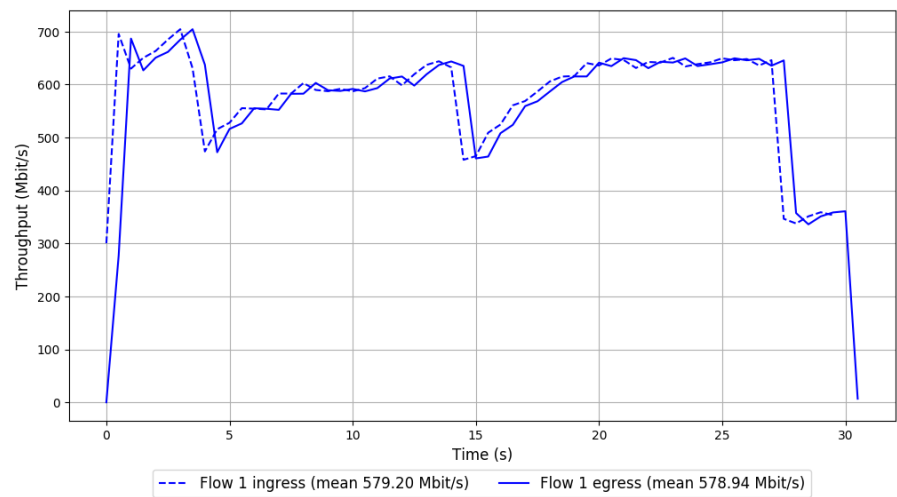


Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 09:23:57  
End at: 2018-05-30 09:24:27  
Local clock offset: 0.155 ms  
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2018-05-30 13:02:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 578.94 Mbit/s  
95th percentile per-packet one-way delay: 23.342 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 578.94 Mbit/s  
95th percentile per-packet one-way delay: 23.342 ms  
Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 09:48:13

End at: 2018-05-30 09:48:43

Local clock offset: 0.592 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-05-30 13:02:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 551.28 Mbit/s

95th percentile per-packet one-way delay: 22.869 ms

Loss rate: 0.06%

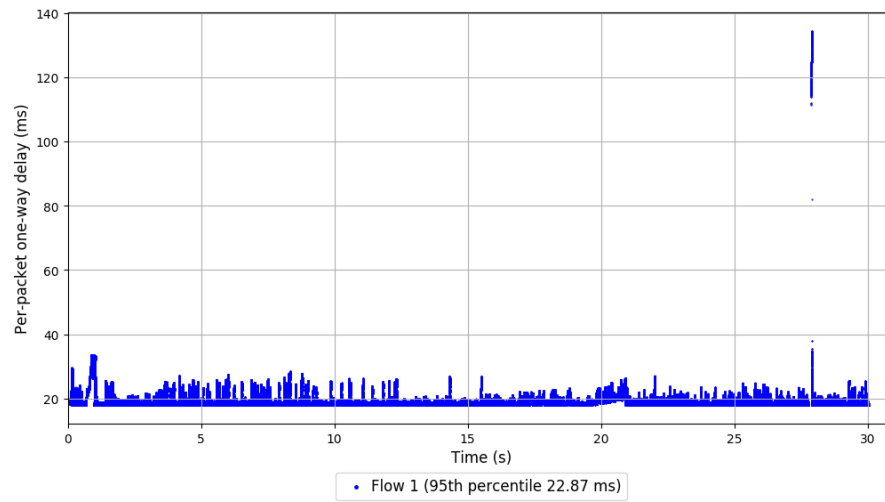
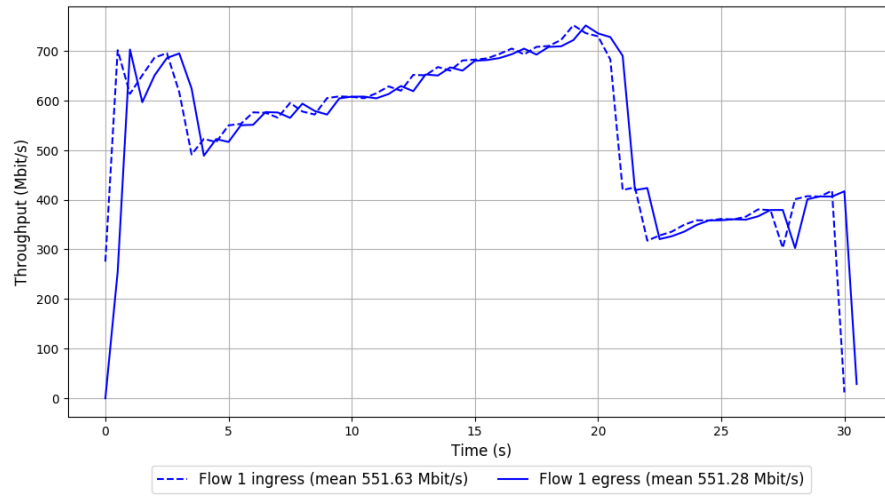
-- Flow 1:

Average throughput: 551.28 Mbit/s

95th percentile per-packet one-way delay: 22.869 ms

Loss rate: 0.06%

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



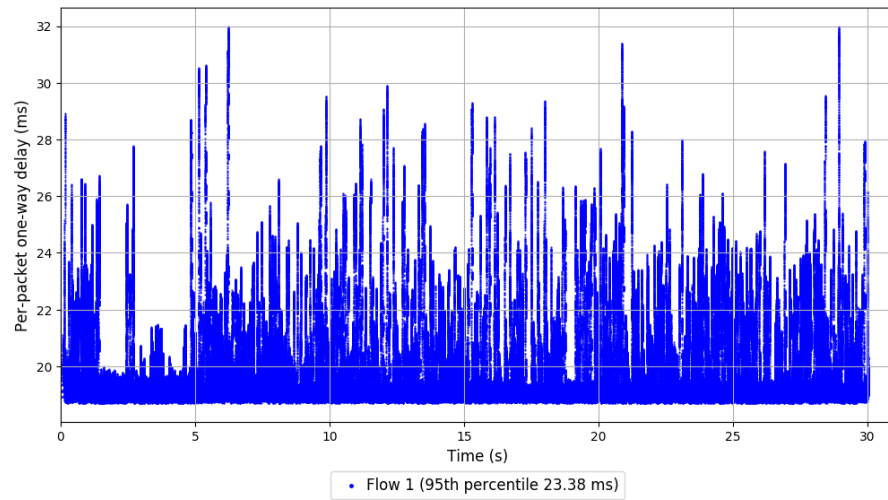
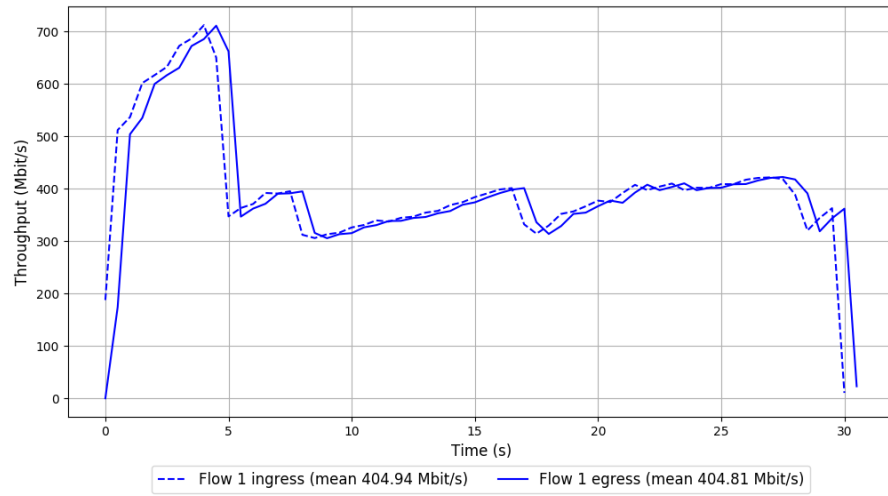
Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 10:12:10  
End at: 2018-05-30 10:12:40  
Local clock offset: 0.382 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-05-30 13:03:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 404.81 Mbit/s  
95th percentile per-packet one-way delay: 23.380 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 404.81 Mbit/s  
95th percentile per-packet one-way delay: 23.380 ms  
Loss rate: 0.04%



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

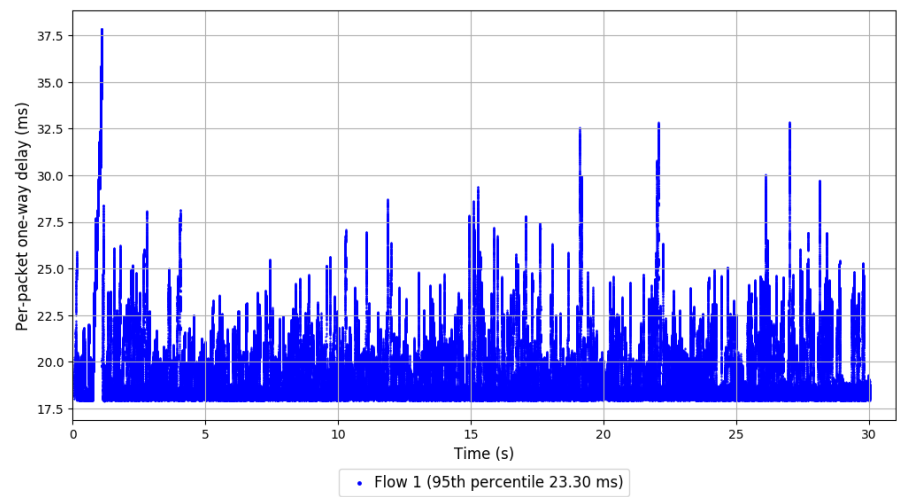
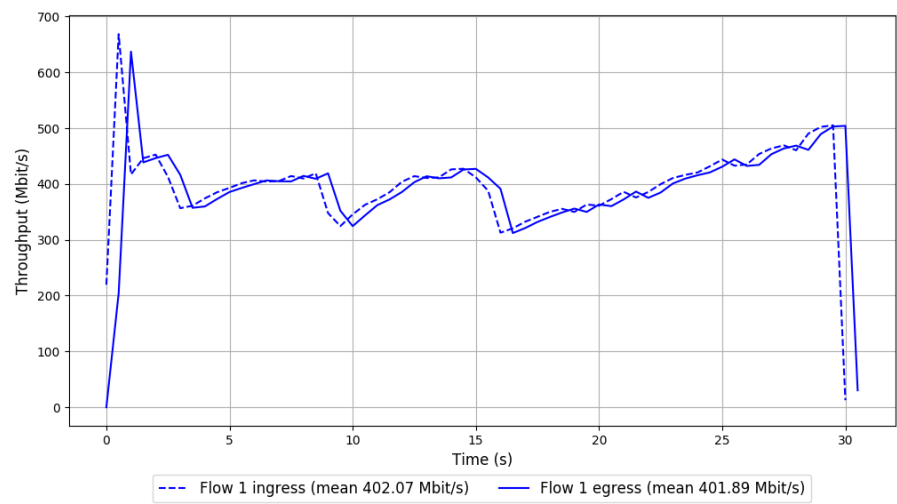


Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 10:36:13  
End at: 2018-05-30 10:36:43  
Local clock offset: 0.507 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-05-30 13:04:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 401.89 Mbit/s  
95th percentile per-packet one-way delay: 23.297 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 401.89 Mbit/s  
95th percentile per-packet one-way delay: 23.297 ms  
Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link

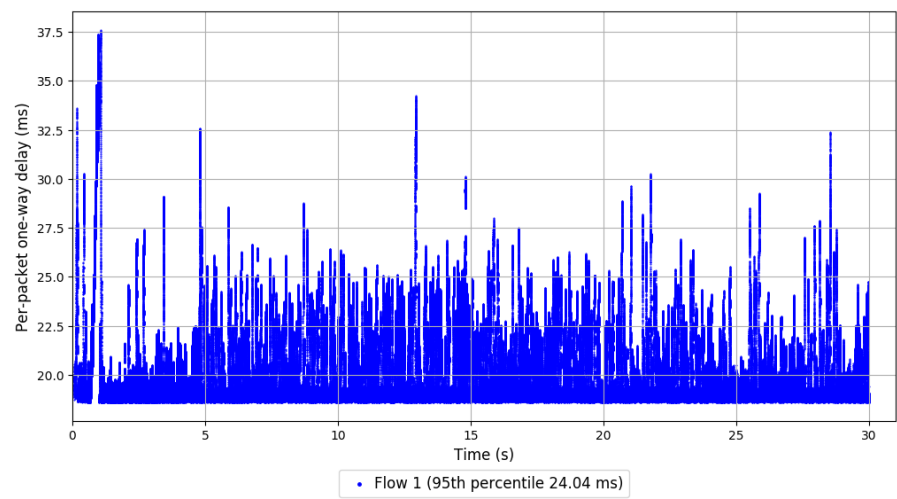
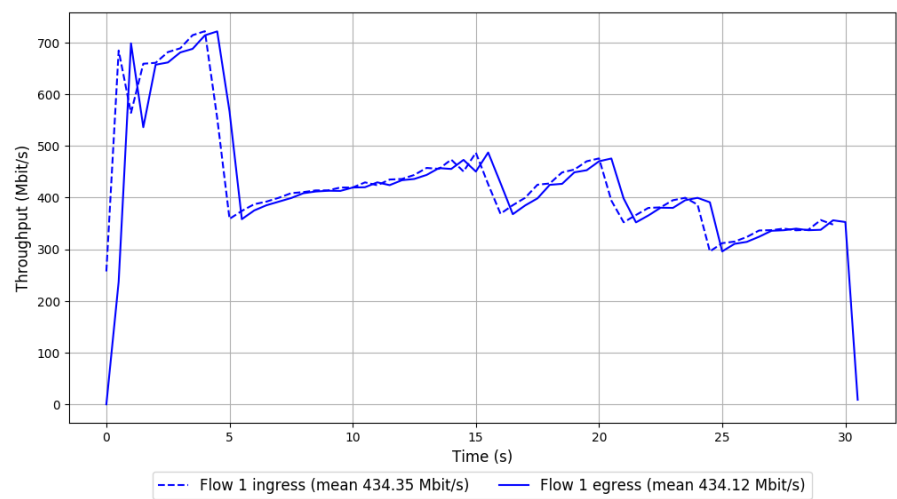


Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 11:00:10  
End at: 2018-05-30 11:00:40  
Local clock offset: 0.547 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-05-30 13:06:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 434.12 Mbit/s  
95th percentile per-packet one-way delay: 24.043 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 434.12 Mbit/s  
95th percentile per-packet one-way delay: 24.043 ms  
Loss rate: 0.05%

Run 7: Report of TCP Cubic — Data Link

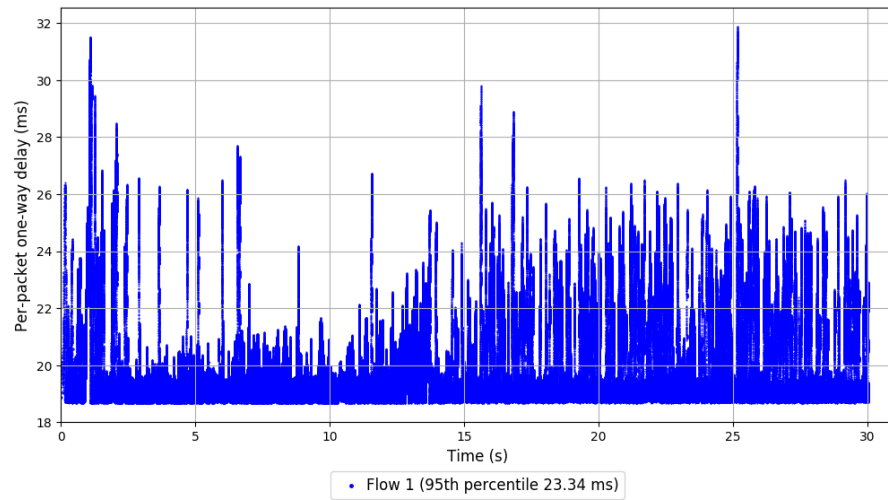
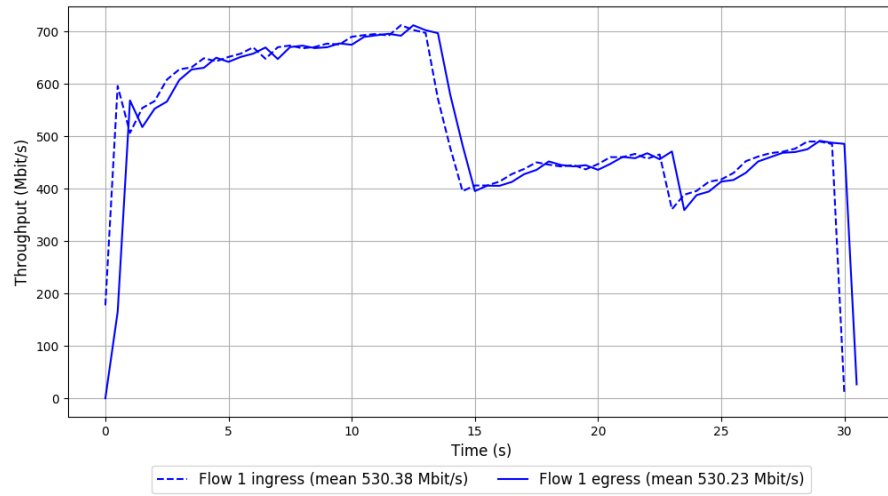


Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 11:24:02  
End at: 2018-05-30 11:24:32  
Local clock offset: 0.522 ms  
Remote clock offset: -0.525 ms

# Below is generated by plot.py at 2018-05-30 13:07:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 530.23 Mbit/s  
95th percentile per-packet one-way delay: 23.343 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 530.23 Mbit/s  
95th percentile per-packet one-way delay: 23.343 ms  
Loss rate: 0.03%

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



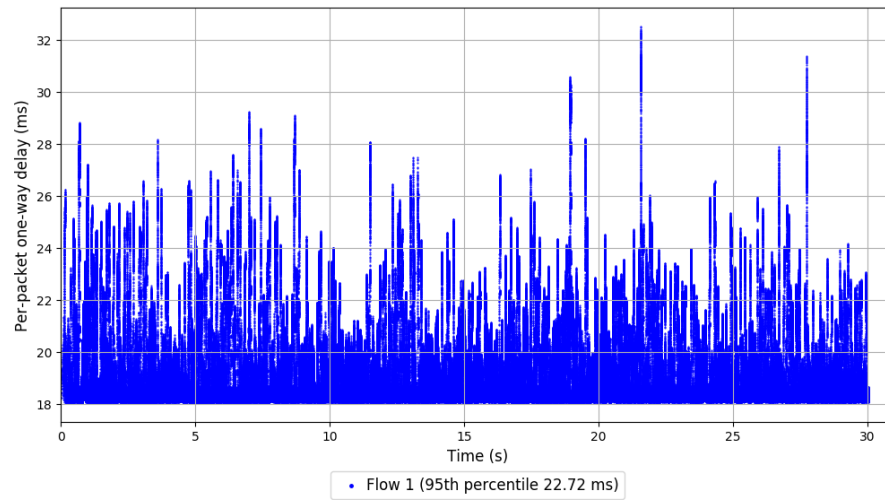
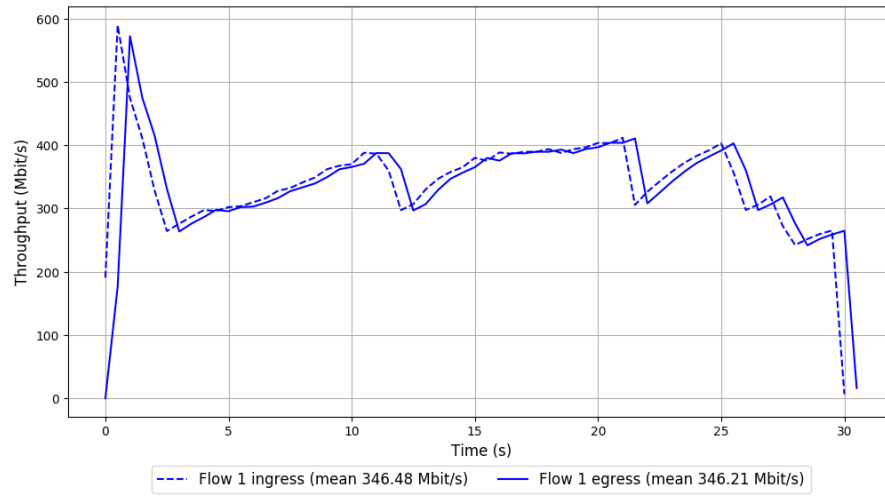
Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 11:47:59  
End at: 2018-05-30 11:48:29  
Local clock offset: 0.461 ms  
Remote clock offset: -0.818 ms

# Below is generated by plot.py at 2018-05-30 13:07:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 346.21 Mbit/s  
95th percentile per-packet one-way delay: 22.722 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 346.21 Mbit/s  
95th percentile per-packet one-way delay: 22.722 ms  
Loss rate: 0.08%



### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 12:11:55

End at: 2018-05-30 12:12:25

Local clock offset: 0.052 ms

Remote clock offset: -1.239 ms

# Below is generated by plot.py at 2018-05-30 13:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 422.92 Mbit/s

95th percentile per-packet one-way delay: 24.626 ms

Loss rate: 0.09%

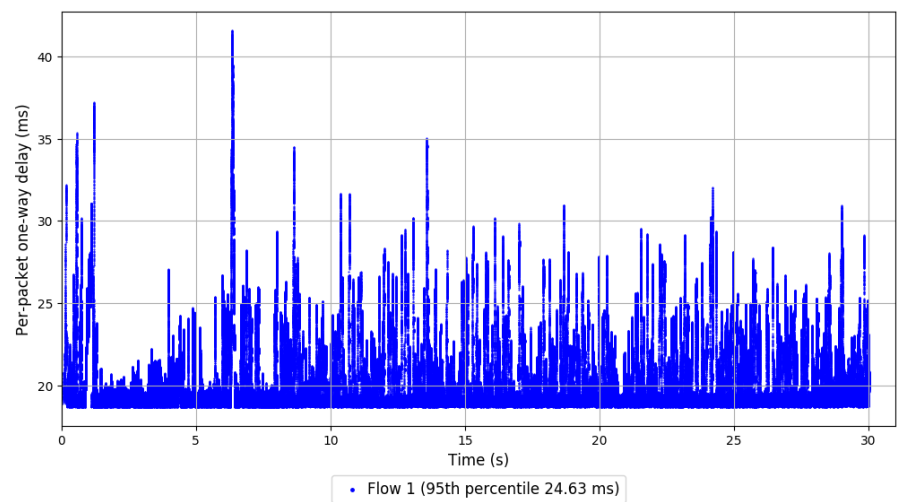
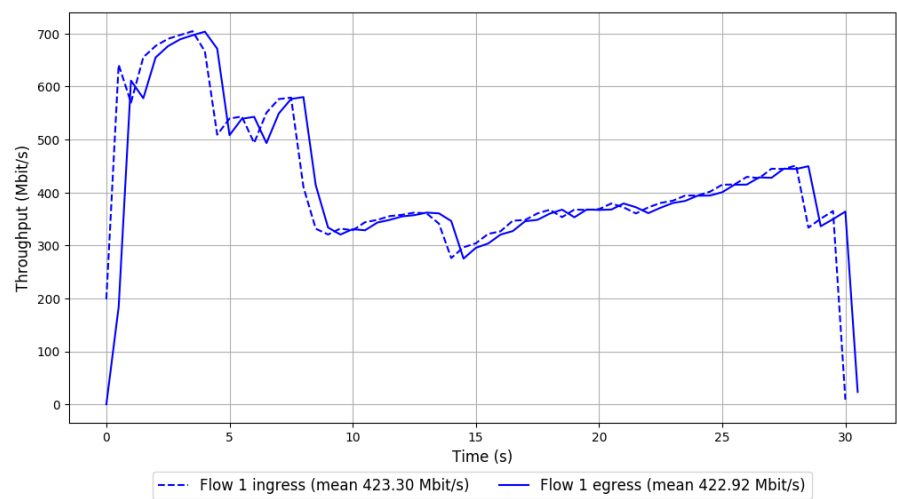
-- Flow 1:

Average throughput: 422.92 Mbit/s

95th percentile per-packet one-way delay: 24.626 ms

Loss rate: 0.09%

Run 10: Report of TCP Cubic — Data Link

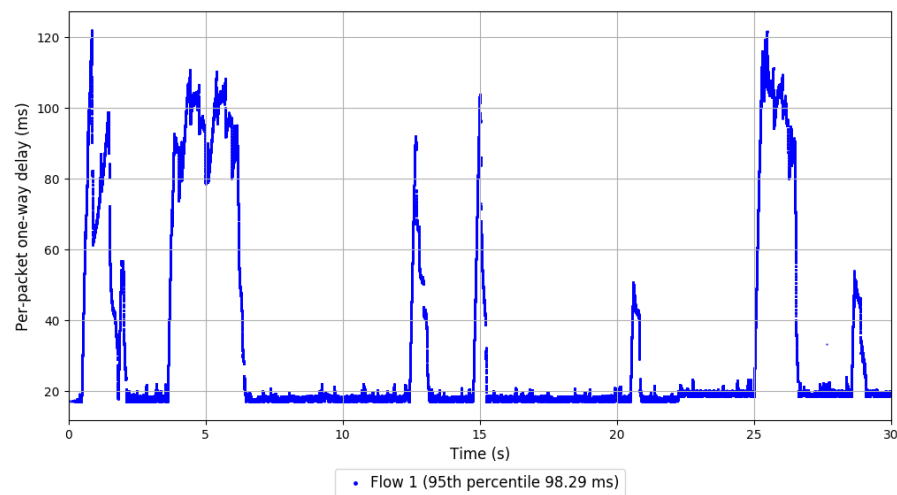
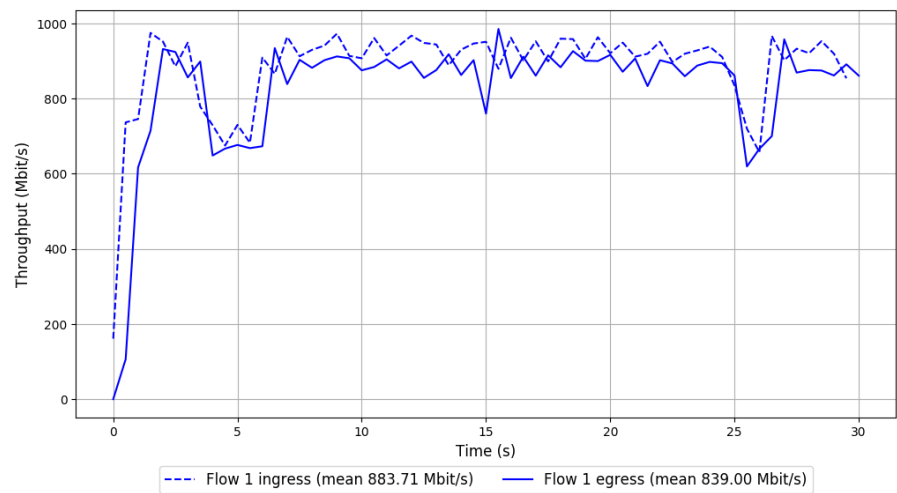


Run 1: Statistics of FillP

Start at: 2018-05-30 08:32:59  
End at: 2018-05-30 08:33:29  
Local clock offset: 0.248 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-05-30 13:15:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 839.00 Mbit/s  
95th percentile per-packet one-way delay: 98.289 ms  
Loss rate: 5.06%  
-- Flow 1:  
Average throughput: 839.00 Mbit/s  
95th percentile per-packet one-way delay: 98.289 ms  
Loss rate: 5.06%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-30 08:56:59

End at: 2018-05-30 08:57:29

Local clock offset: 0.289 ms

Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2018-05-30 13:15:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 836.15 Mbit/s

95th percentile per-packet one-way delay: 97.461 ms

Loss rate: 3.57%

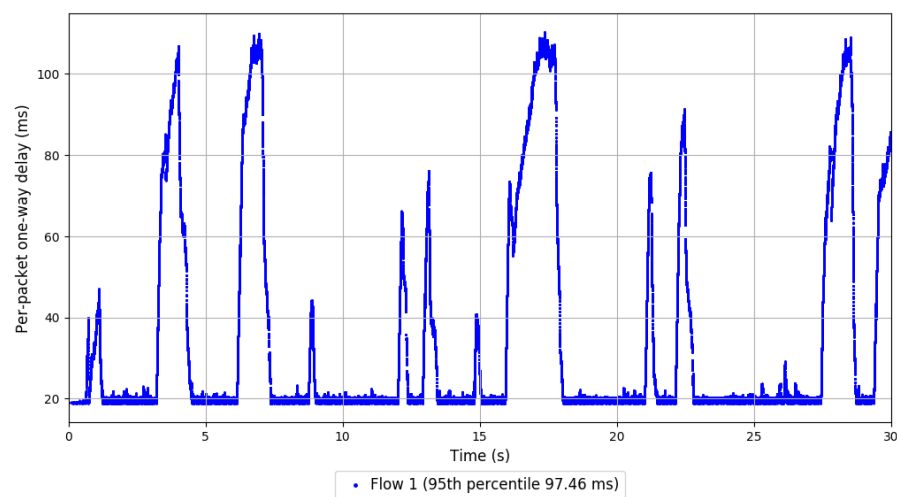
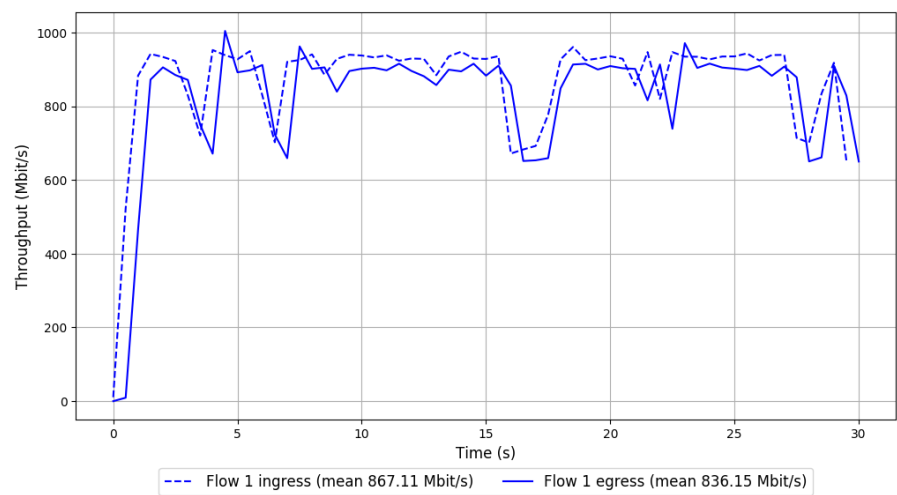
-- Flow 1:

Average throughput: 836.15 Mbit/s

95th percentile per-packet one-way delay: 97.461 ms

Loss rate: 3.57%

Run 2: Report of FillP — Data Link



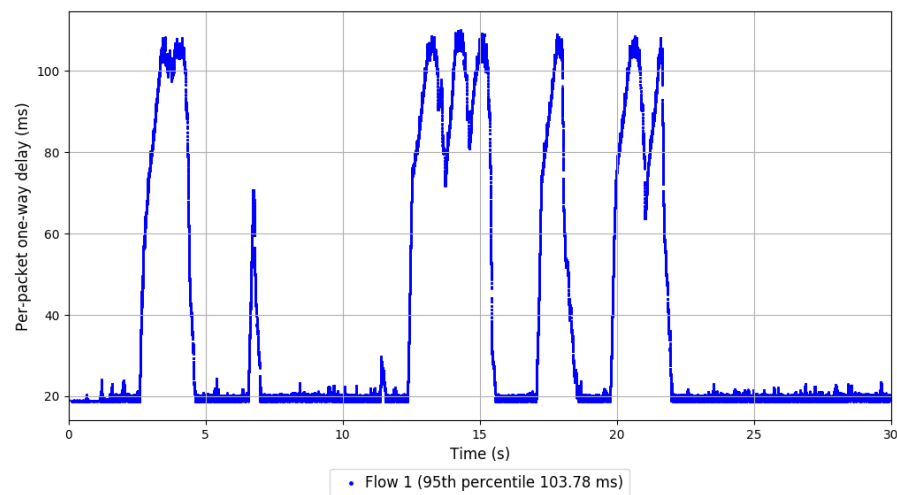
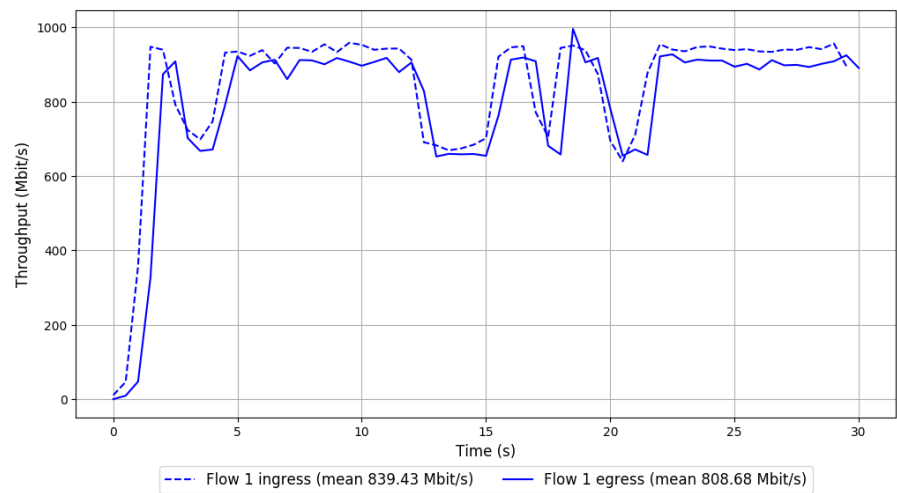
Run 3: Statistics of FillP

Start at: 2018-05-30 09:20:59  
End at: 2018-05-30 09:21:29  
Local clock offset: 0.235 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-05-30 13:16:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 808.68 Mbit/s  
95th percentile per-packet one-way delay: 103.777 ms  
Loss rate: 3.66%  
-- Flow 1:  
Average throughput: 808.68 Mbit/s  
95th percentile per-packet one-way delay: 103.777 ms  
Loss rate: 3.66%



Run 3: Report of FillP — Data Link

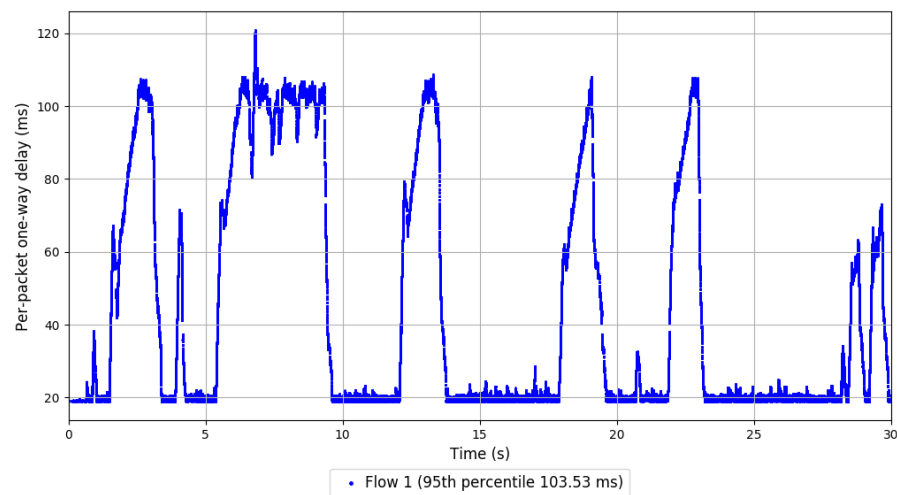
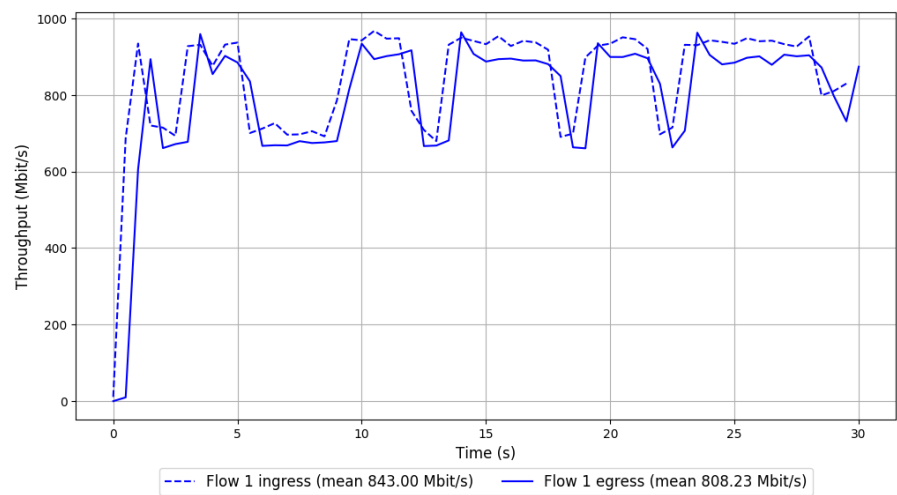


Run 4: Statistics of FillP

Start at: 2018-05-30 09:45:15  
End at: 2018-05-30 09:45:46  
Local clock offset: 0.542 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-05-30 13:17:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 808.23 Mbit/s  
95th percentile per-packet one-way delay: 103.534 ms  
Loss rate: 4.13%  
-- Flow 1:  
Average throughput: 808.23 Mbit/s  
95th percentile per-packet one-way delay: 103.534 ms  
Loss rate: 4.13%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-30 10:09:13

End at: 2018-05-30 10:09:43

Local clock offset: 0.375 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-05-30 13:17:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 792.53 Mbit/s

95th percentile per-packet one-way delay: 103.051 ms

Loss rate: 3.27%

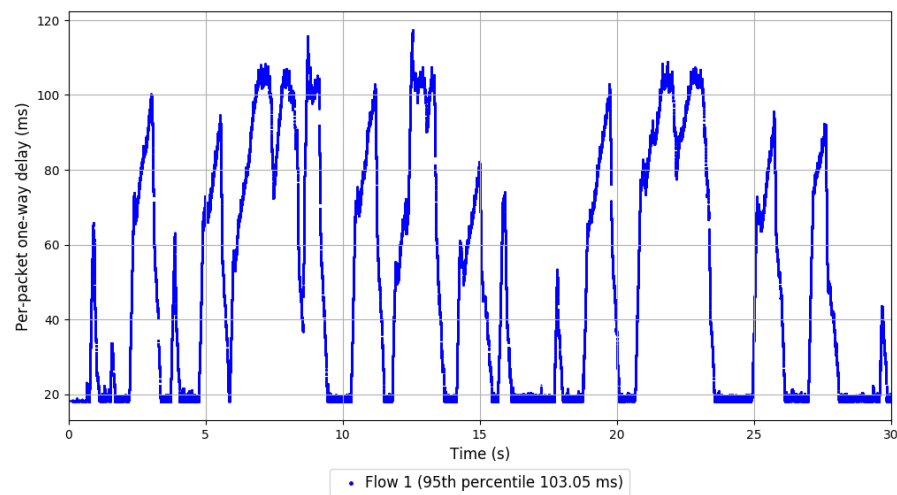
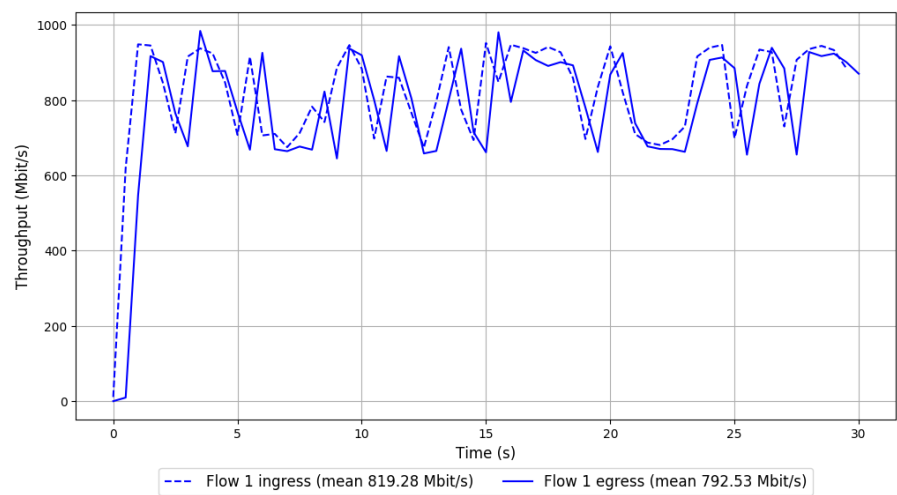
-- Flow 1:

Average throughput: 792.53 Mbit/s

95th percentile per-packet one-way delay: 103.051 ms

Loss rate: 3.27%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-30 10:33:18

End at: 2018-05-30 10:33:48

Local clock offset: 0.508 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-05-30 13:17:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 740.17 Mbit/s

95th percentile per-packet one-way delay: 106.958 ms

Loss rate: 3.19%

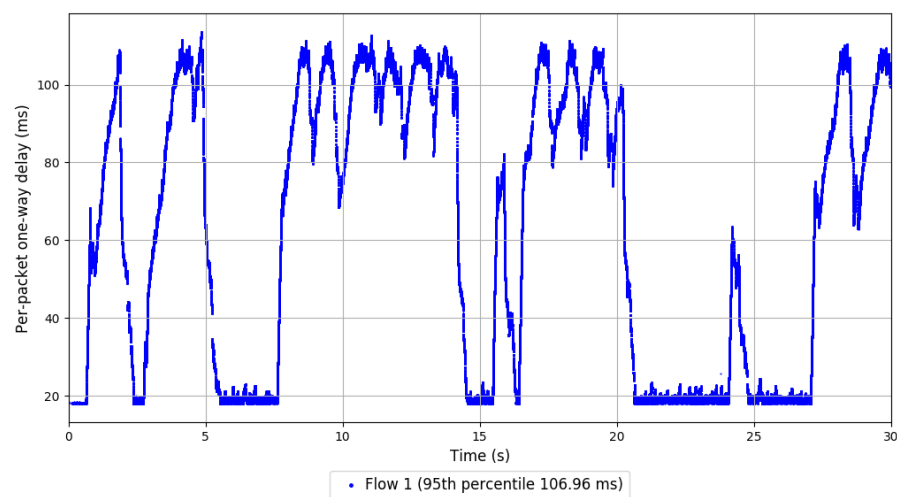
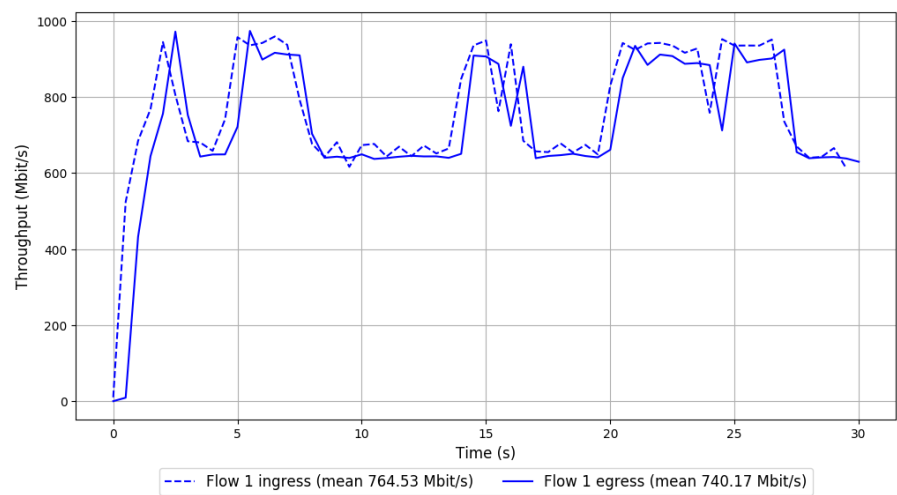
-- Flow 1:

Average throughput: 740.17 Mbit/s

95th percentile per-packet one-way delay: 106.958 ms

Loss rate: 3.19%

Run 6: Report of FillP — Data Link



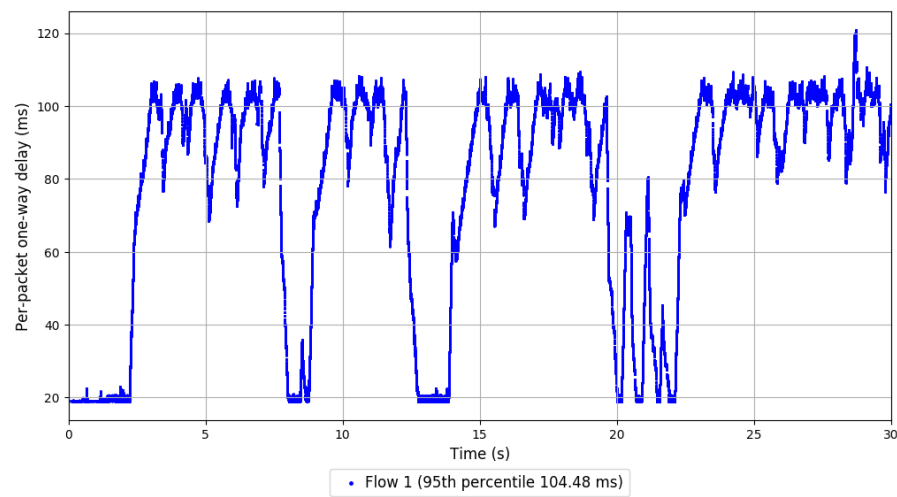
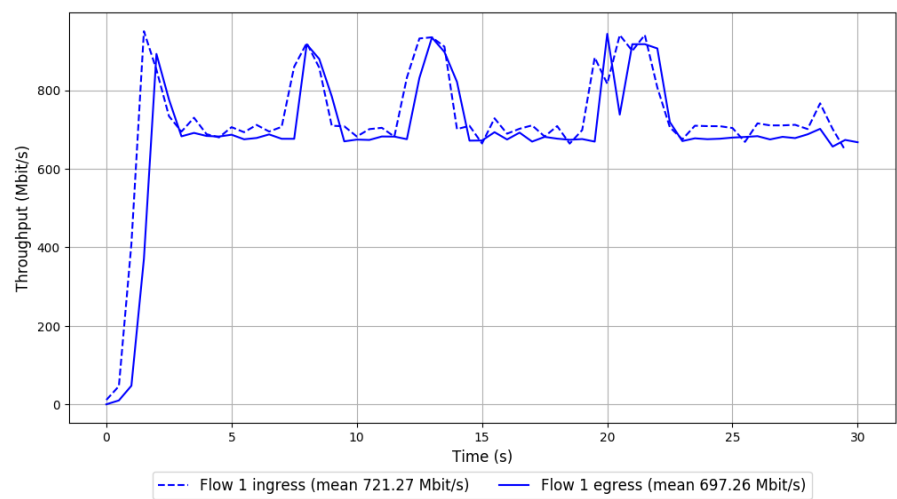
Run 7: Statistics of FillP

Start at: 2018-05-30 10:57:17  
End at: 2018-05-30 10:57:47  
Local clock offset: 0.468 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-05-30 13:17:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 697.26 Mbit/s  
95th percentile per-packet one-way delay: 104.481 ms  
Loss rate: 3.33%  
-- Flow 1:  
Average throughput: 697.26 Mbit/s  
95th percentile per-packet one-way delay: 104.481 ms  
Loss rate: 3.33%



Run 7: Report of FillP — Data Link

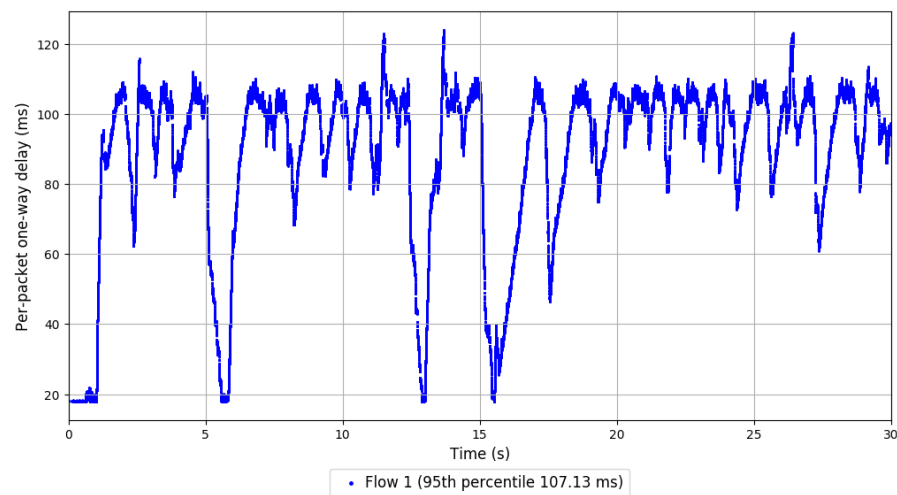
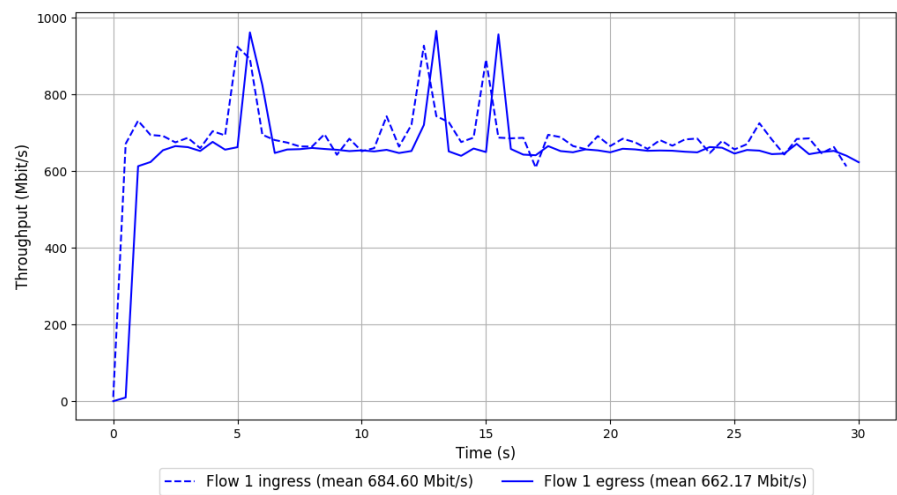


Run 8: Statistics of FillP

Start at: 2018-05-30 11:21:10  
End at: 2018-05-30 11:21:40  
Local clock offset: 0.526 ms  
Remote clock offset: -0.519 ms

# Below is generated by plot.py at 2018-05-30 13:17:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 662.17 Mbit/s  
95th percentile per-packet one-way delay: 107.131 ms  
Loss rate: 3.28%  
-- Flow 1:  
Average throughput: 662.17 Mbit/s  
95th percentile per-packet one-way delay: 107.131 ms  
Loss rate: 3.28%

Run 8: Report of FillP — Data Link

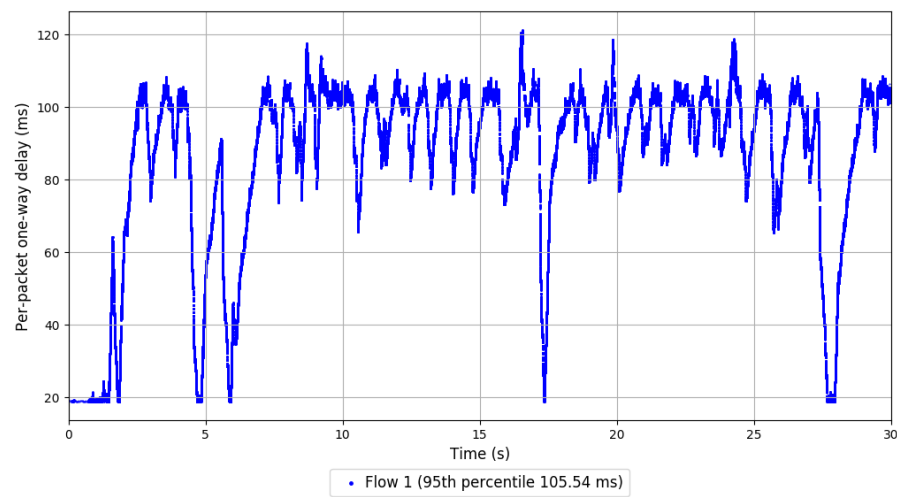
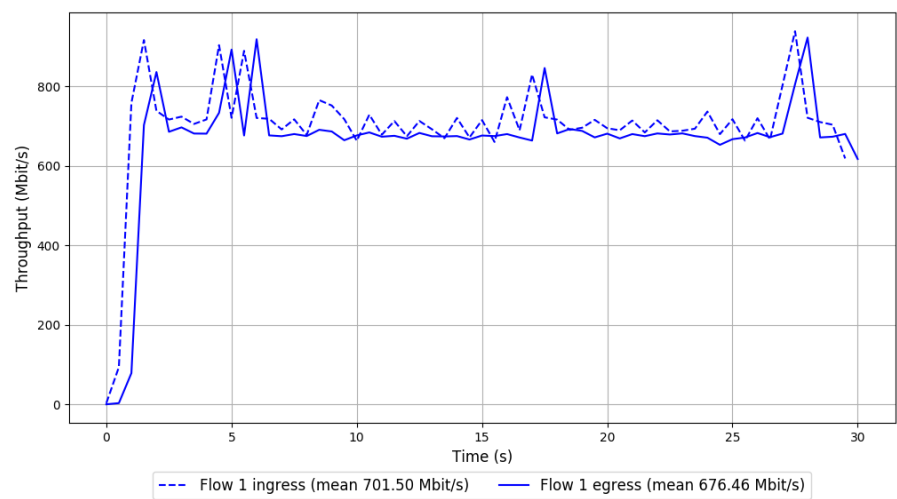


Run 9: Statistics of FillP

Start at: 2018-05-30 11:45:06  
End at: 2018-05-30 11:45:36  
Local clock offset: 0.47 ms  
Remote clock offset: -0.849 ms

# Below is generated by plot.py at 2018-05-30 13:25:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 676.46 Mbit/s  
95th percentile per-packet one-way delay: 105.537 ms  
Loss rate: 3.57%  
-- Flow 1:  
Average throughput: 676.46 Mbit/s  
95th percentile per-packet one-way delay: 105.537 ms  
Loss rate: 3.57%

Run 9: Report of FillP — Data Link

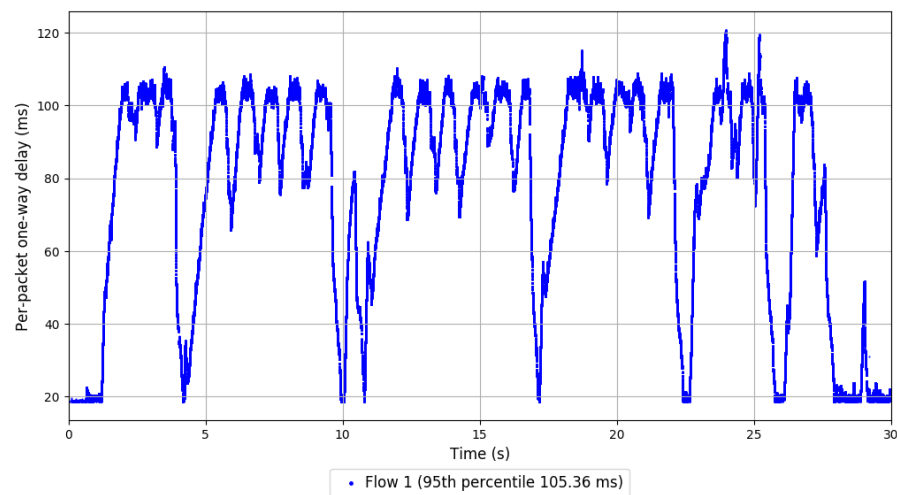
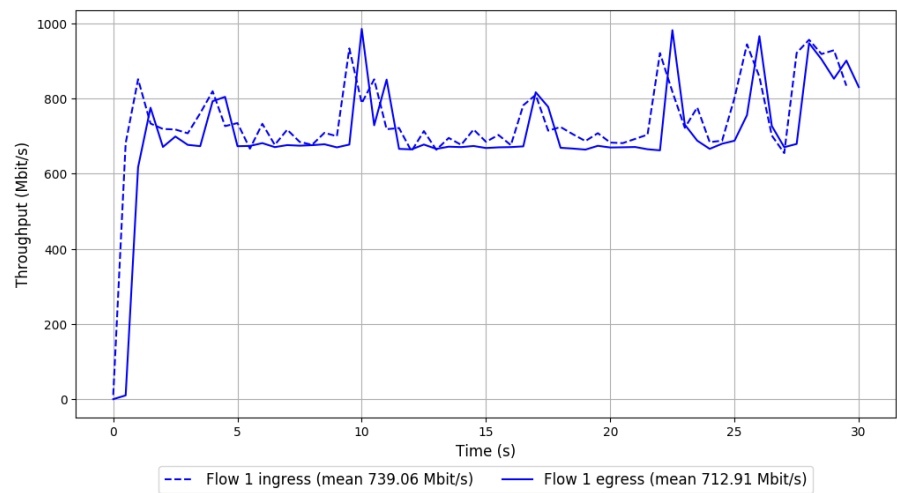


Run 10: Statistics of FillP

Start at: 2018-05-30 12:09:01  
End at: 2018-05-30 12:09:31  
Local clock offset: 0.186 ms  
Remote clock offset: -1.136 ms

# Below is generated by plot.py at 2018-05-30 13:26:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 712.91 Mbit/s  
95th percentile per-packet one-way delay: 105.363 ms  
Loss rate: 3.53%  
-- Flow 1:  
Average throughput: 712.91 Mbit/s  
95th percentile per-packet one-way delay: 105.363 ms  
Loss rate: 3.53%

Run 10: Report of FillP — Data Link



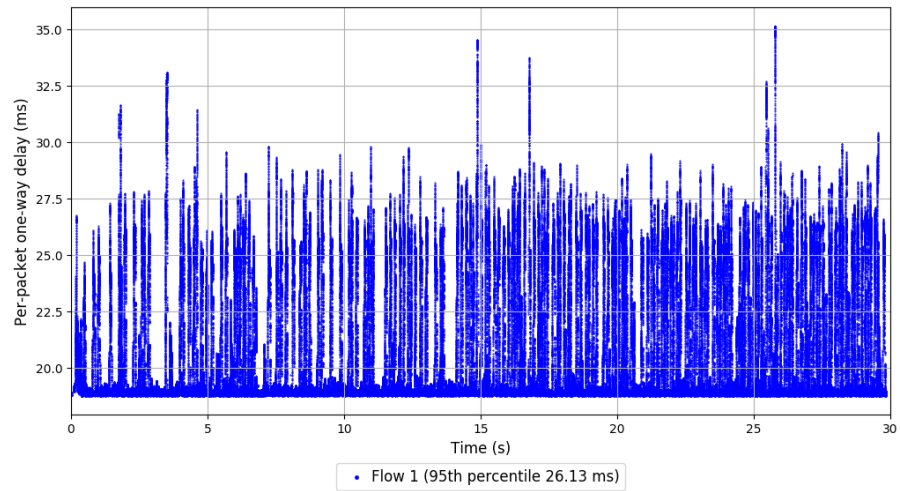
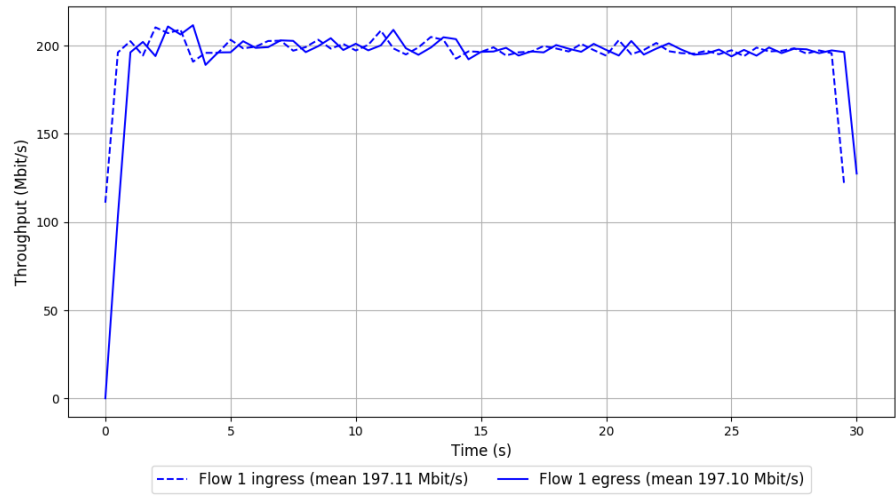
```
Run 1: Statistics of Indigo

Start at: 2018-05-30 08:31:34
End at: 2018-05-30 08:32:04
Local clock offset: 0.171 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-05-30 13:26:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.10 Mbit/s
95th percentile per-packet one-way delay: 26.133 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 197.10 Mbit/s
95th percentile per-packet one-way delay: 26.133 ms
Loss rate: 0.01%
```



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



Run 2: Statistics of Indigo

Start at: 2018-05-30 08:55:33

End at: 2018-05-30 08:56:03

Local clock offset: 0.324 ms

Remote clock offset: 0.207 ms

# Below is generated by plot.py at 2018-05-30 13:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 192.81 Mbit/s

95th percentile per-packet one-way delay: 25.510 ms

Loss rate: 0.00%

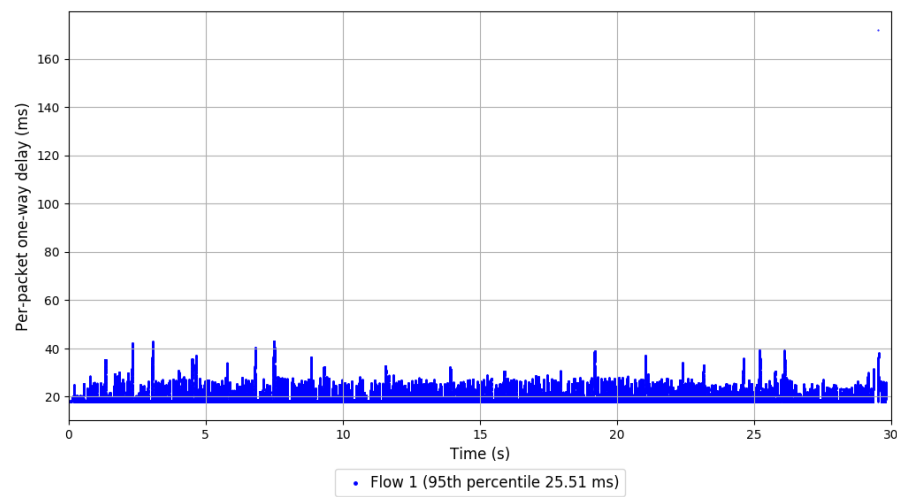
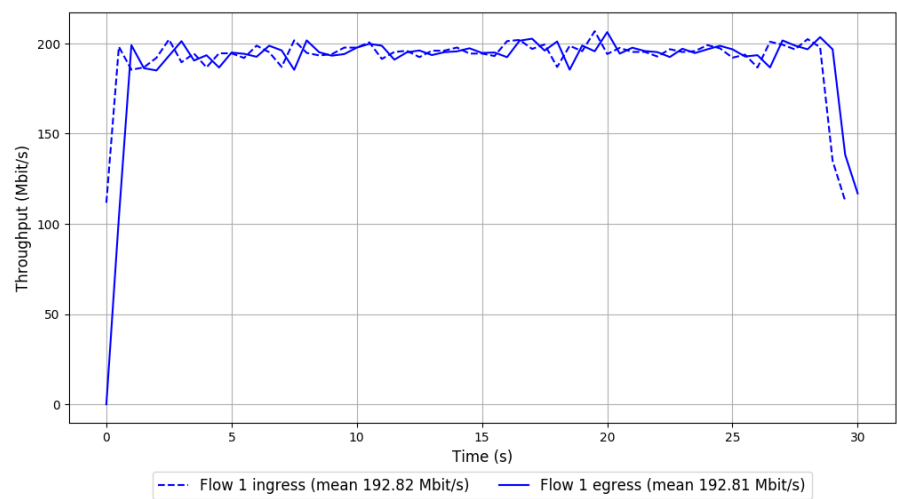
-- Flow 1:

Average throughput: 192.81 Mbit/s

95th percentile per-packet one-way delay: 25.510 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-30 09:19:33

End at: 2018-05-30 09:20:03

Local clock offset: 0.228 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-05-30 13:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.25 Mbit/s

95th percentile per-packet one-way delay: 26.581 ms

Loss rate: 0.00%

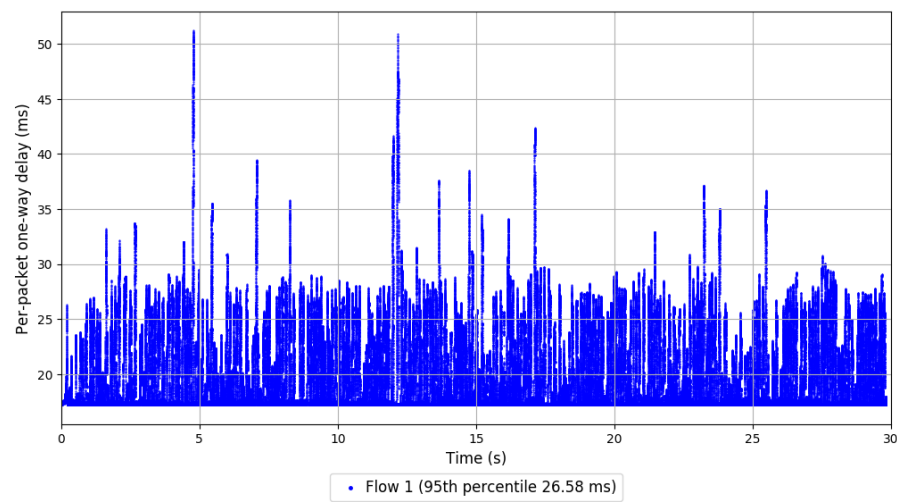
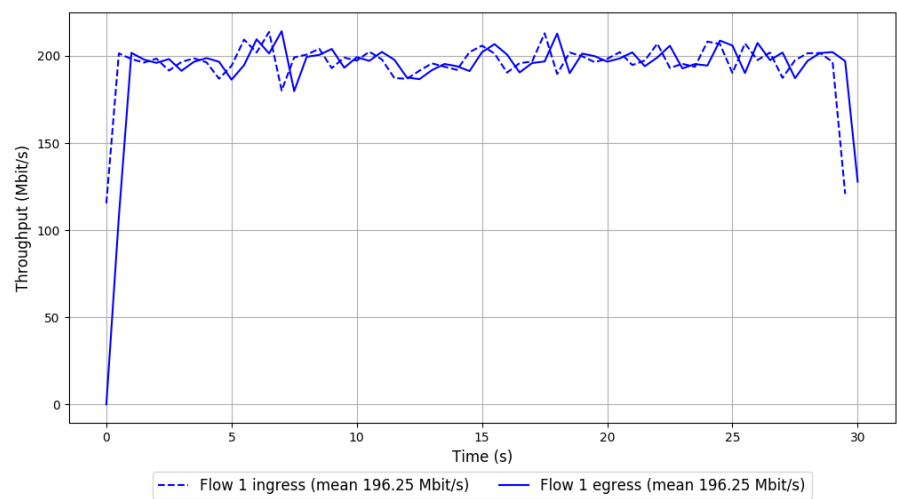
-- Flow 1:

Average throughput: 196.25 Mbit/s

95th percentile per-packet one-way delay: 26.581 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

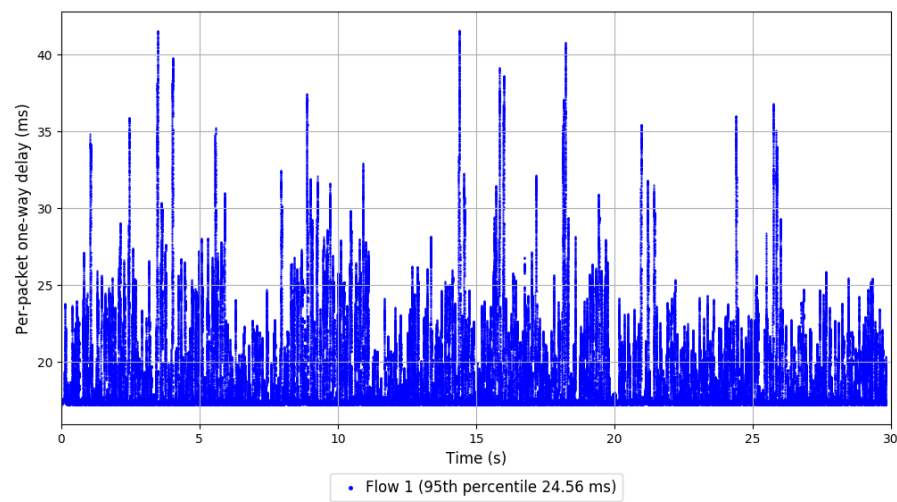
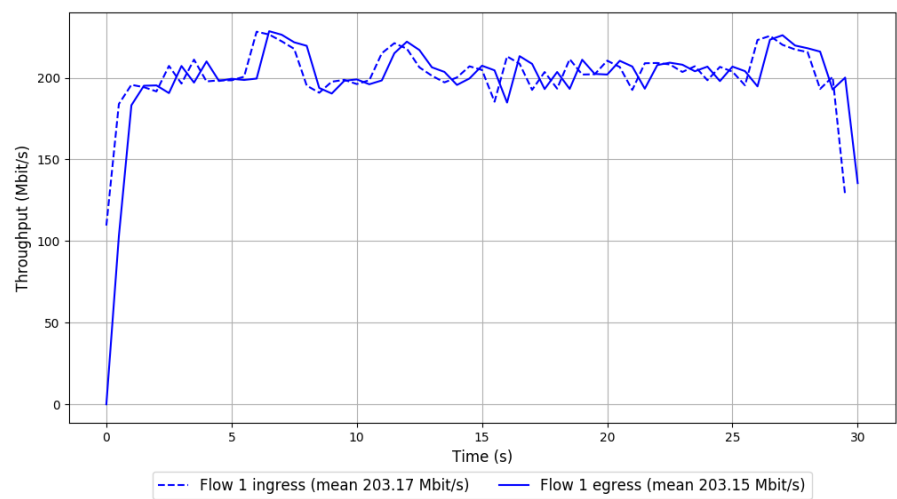


Run 4: Statistics of Indigo

Start at: 2018-05-30 09:43:50  
End at: 2018-05-30 09:44:20  
Local clock offset: 0.522 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-05-30 13:26:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 203.15 Mbit/s  
95th percentile per-packet one-way delay: 24.564 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 203.15 Mbit/s  
95th percentile per-packet one-way delay: 24.564 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-30 10:07:47

End at: 2018-05-30 10:08:17

Local clock offset: 0.449 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-05-30 13:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 197.39 Mbit/s

95th percentile per-packet one-way delay: 25.310 ms

Loss rate: 0.00%

-- Flow 1:

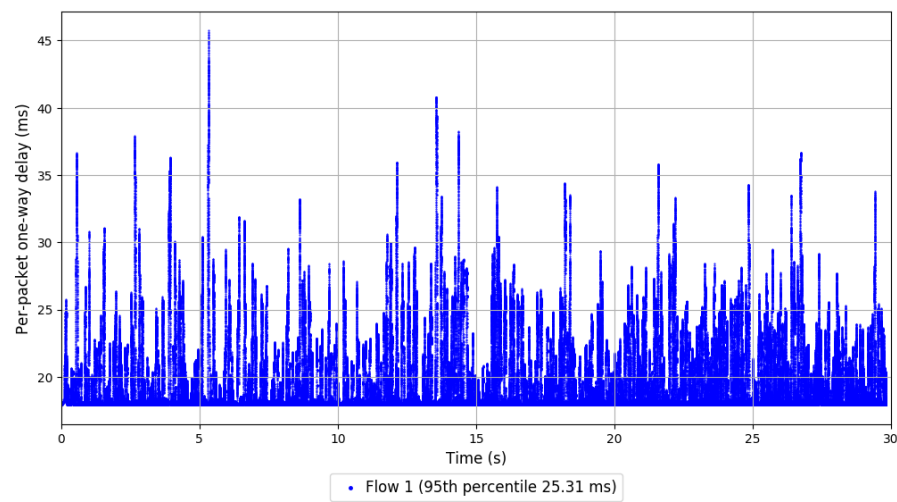
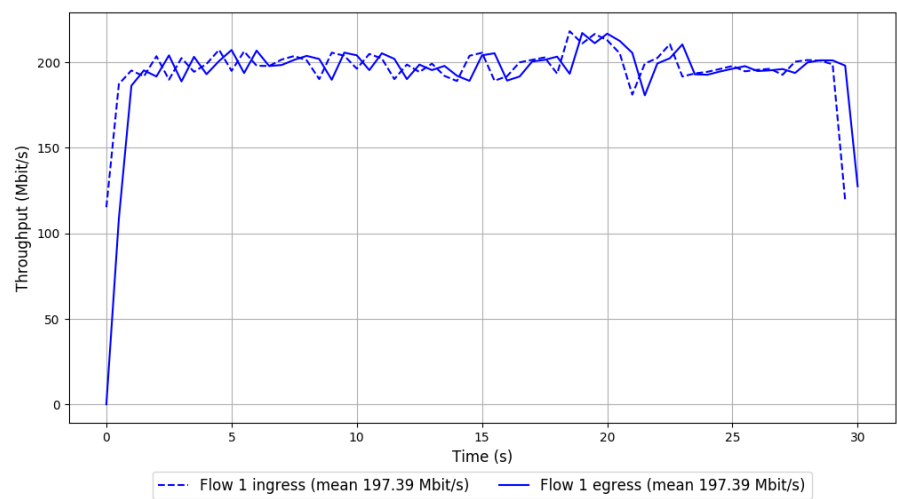
Average throughput: 197.39 Mbit/s

95th percentile per-packet one-way delay: 25.310 ms

Loss rate: 0.00%



Run 5: Report of Indigo — Data Link

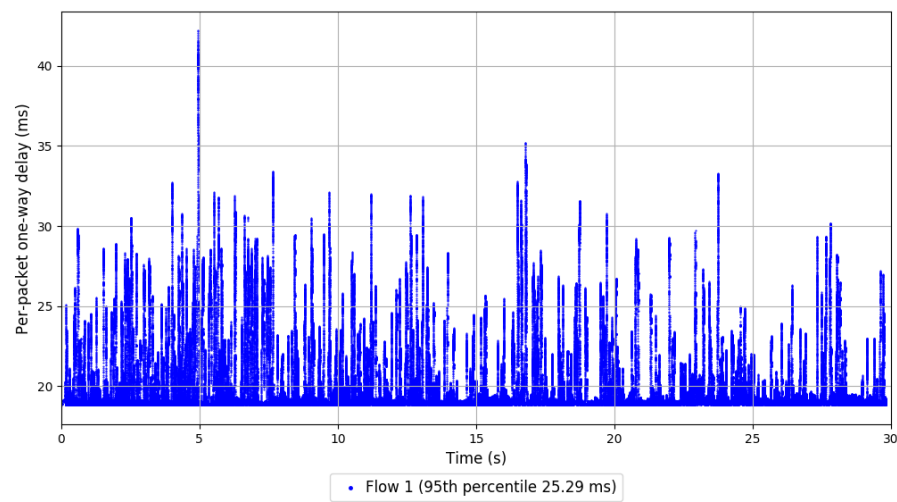
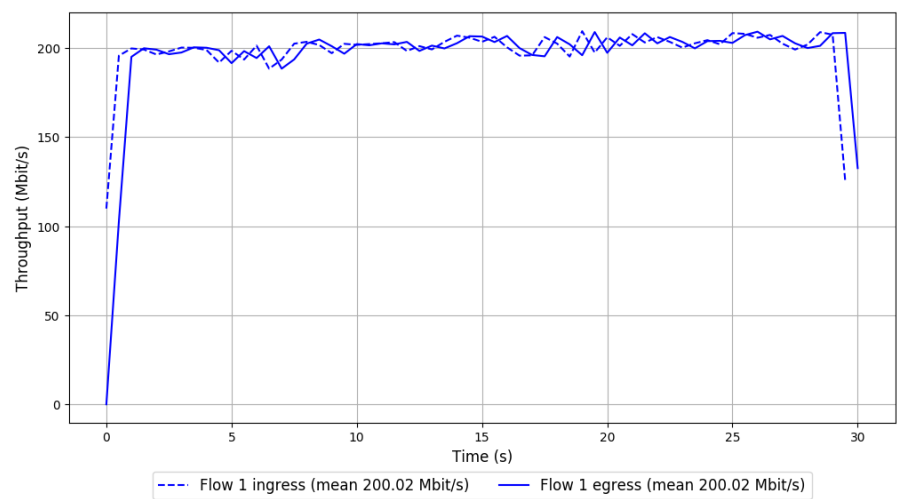


Run 6: Statistics of Indigo

Start at: 2018-05-30 10:31:52  
End at: 2018-05-30 10:32:22  
Local clock offset: 0.498 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-05-30 13:26:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 200.02 Mbit/s  
95th percentile per-packet one-way delay: 25.287 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 200.02 Mbit/s  
95th percentile per-packet one-way delay: 25.287 ms  
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

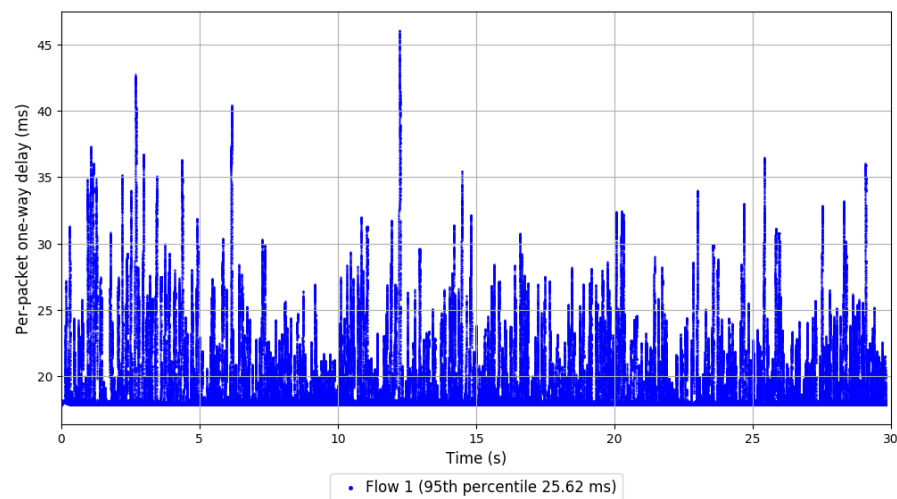
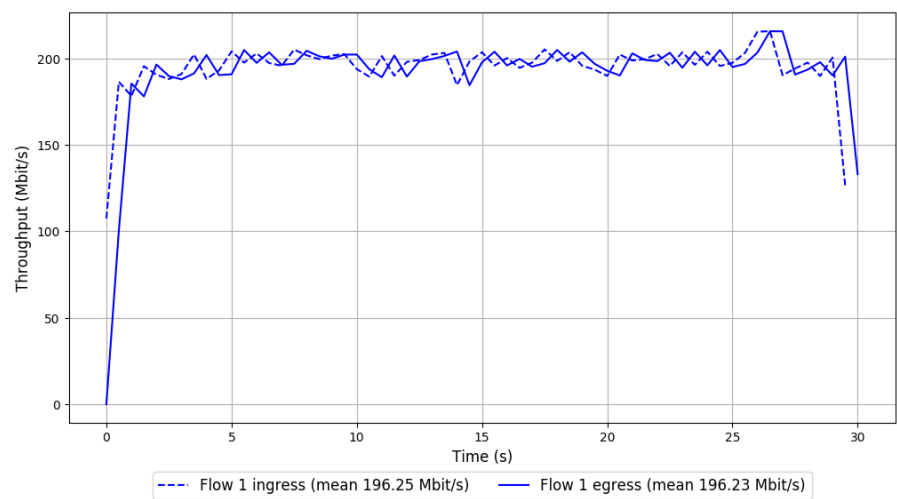


Run 7: Statistics of Indigo

Start at: 2018-05-30 10:55:51  
End at: 2018-05-30 10:56:21  
Local clock offset: 0.58 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-05-30 13:26:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 196.23 Mbit/s  
95th percentile per-packet one-way delay: 25.617 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 196.23 Mbit/s  
95th percentile per-packet one-way delay: 25.617 ms  
Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-30 11:19:44

End at: 2018-05-30 11:20:14

Local clock offset: 0.527 ms

Remote clock offset: -0.47 ms

# Below is generated by plot.py at 2018-05-30 13:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 202.27 Mbit/s

95th percentile per-packet one-way delay: 23.043 ms

Loss rate: 0.00%

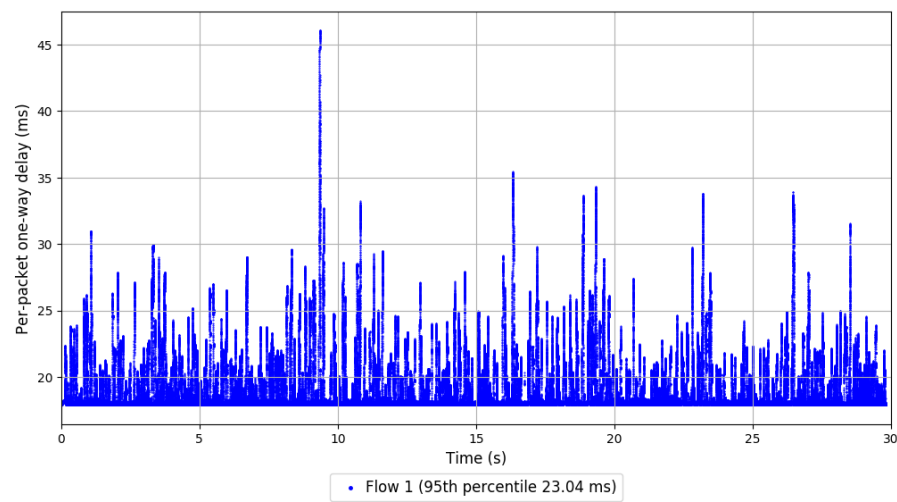
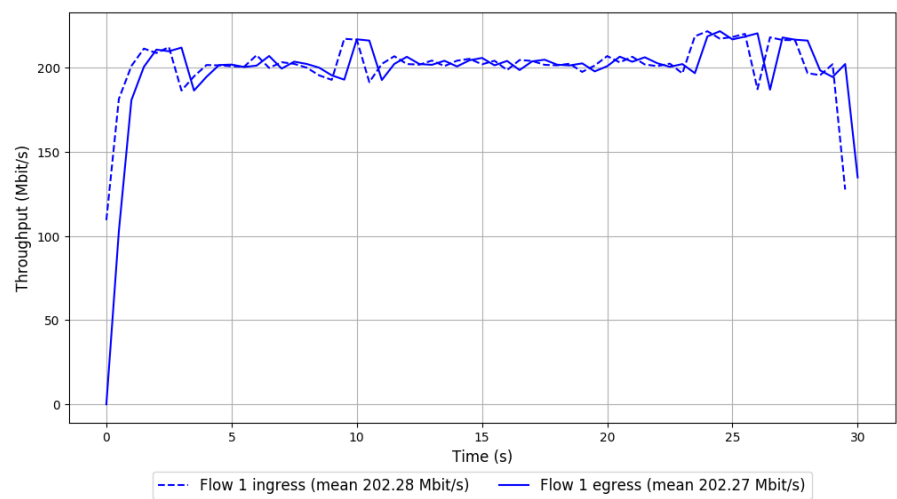
-- Flow 1:

Average throughput: 202.27 Mbit/s

95th percentile per-packet one-way delay: 23.043 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



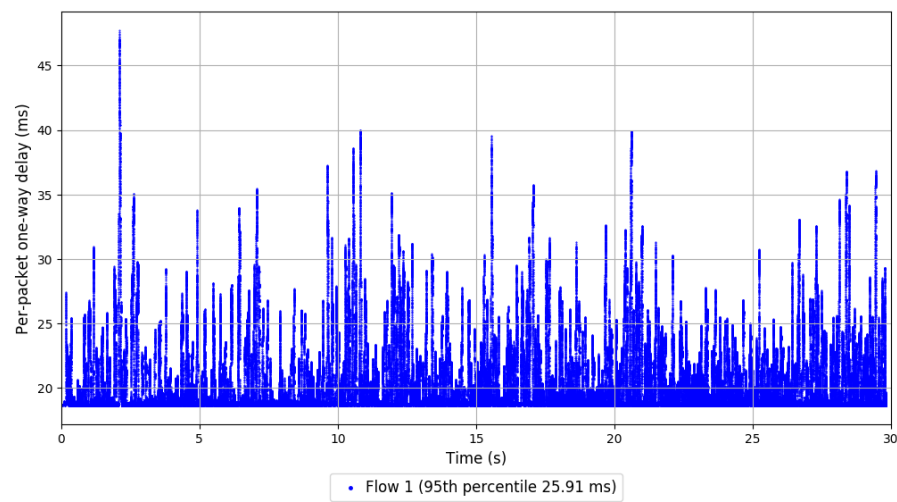
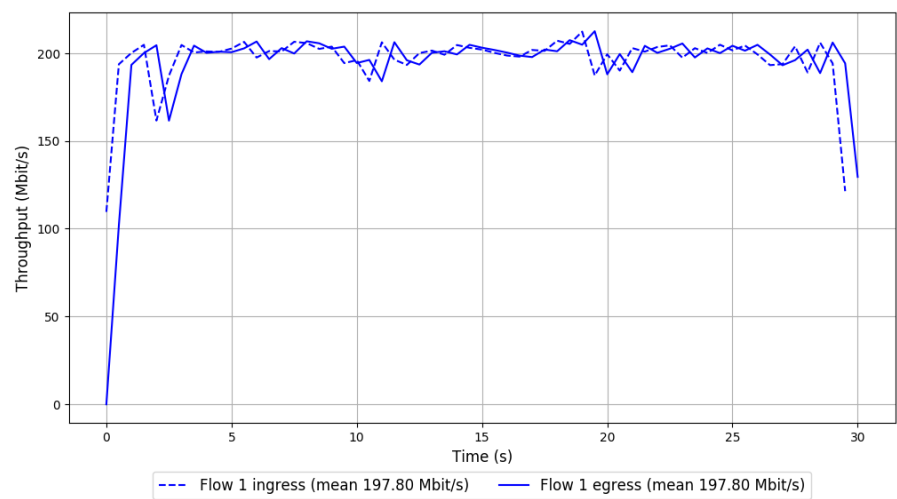
Run 9: Statistics of Indigo

Start at: 2018-05-30 11:43:40  
End at: 2018-05-30 11:44:10  
Local clock offset: 0.491 ms  
Remote clock offset: -0.823 ms

# Below is generated by plot.py at 2018-05-30 13:26:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 197.80 Mbit/s  
95th percentile per-packet one-way delay: 25.906 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 197.80 Mbit/s  
95th percentile per-packet one-way delay: 25.906 ms  
Loss rate: 0.00%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-30 12:07:35

End at: 2018-05-30 12:08:05

Local clock offset: 0.089 ms

Remote clock offset: -1.173 ms

# Below is generated by plot.py at 2018-05-30 13:26:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 198.65 Mbit/s

95th percentile per-packet one-way delay: 26.142 ms

Loss rate: 0.00%

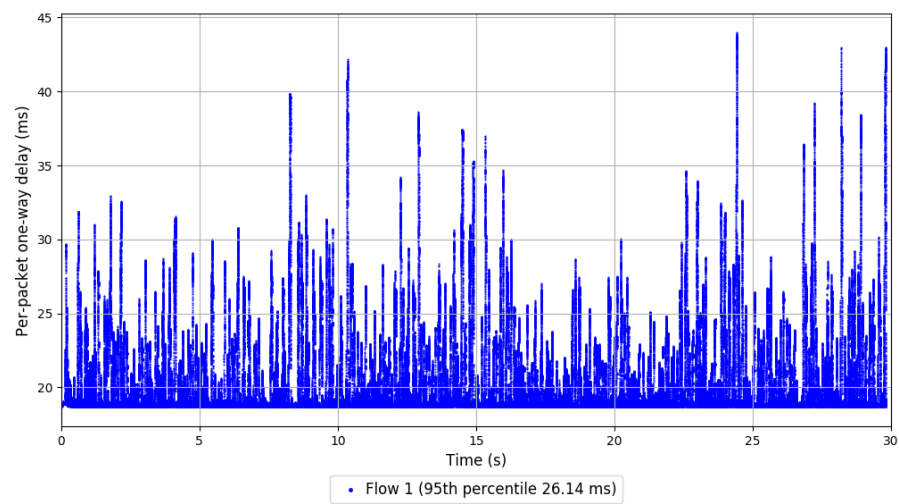
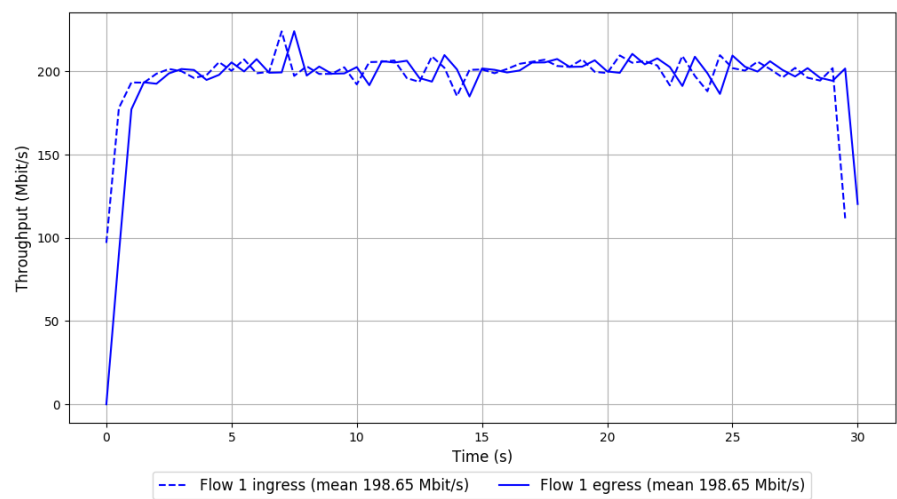
-- Flow 1:

Average throughput: 198.65 Mbit/s

95th percentile per-packet one-way delay: 26.142 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

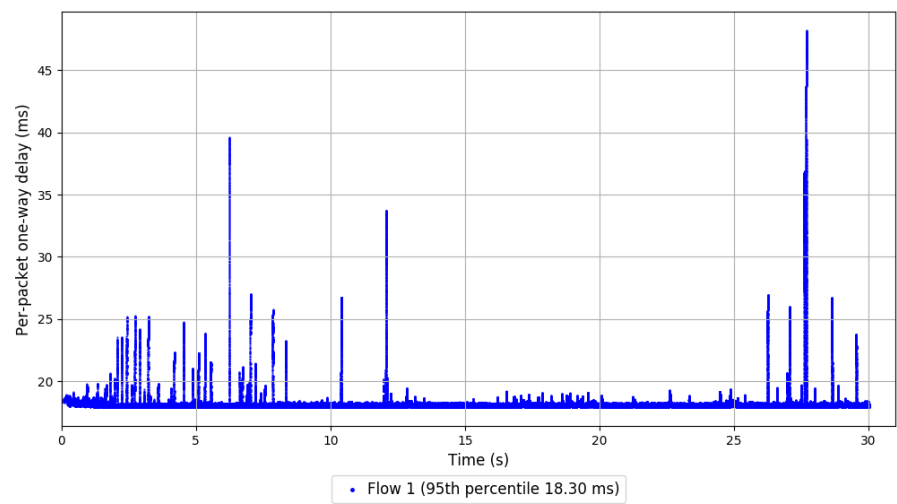
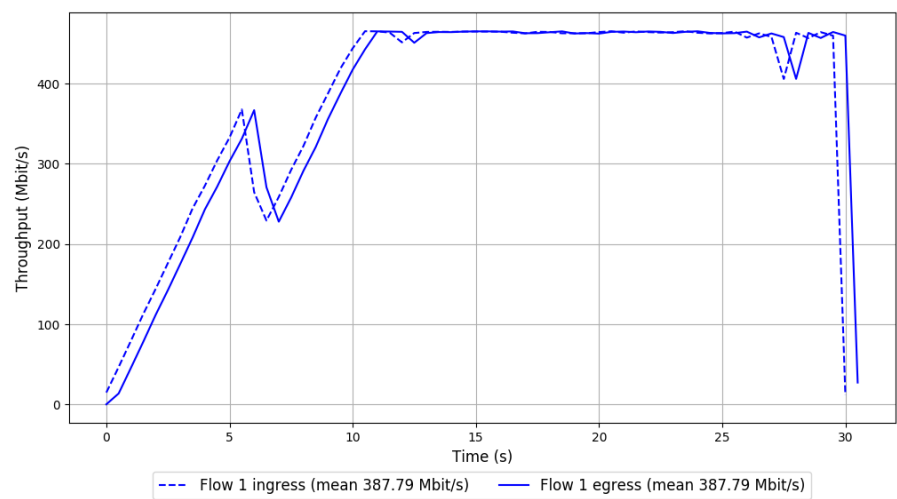


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-30 08:40:23
End at: 2018-05-30 08:40:53
Local clock offset: 0.277 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-05-30 13:26:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 387.79 Mbit/s
95th percentile per-packet one-way delay: 18.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 387.79 Mbit/s
95th percentile per-packet one-way delay: 18.296 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

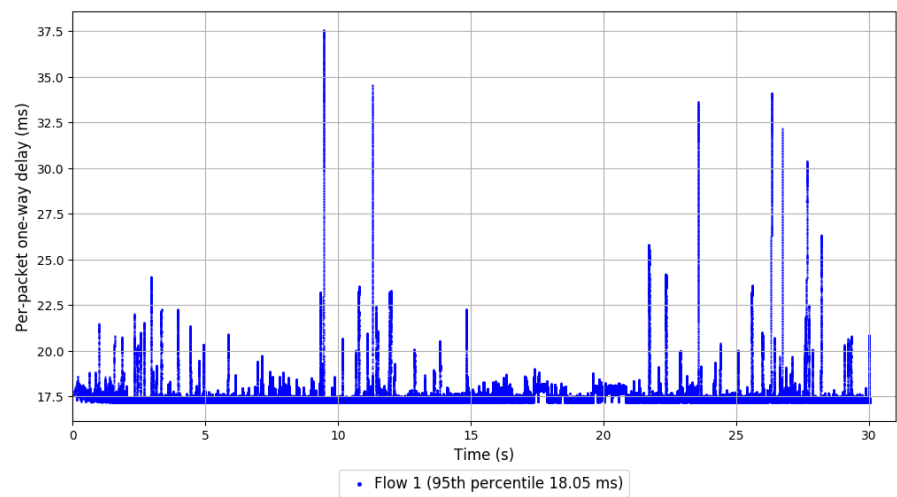
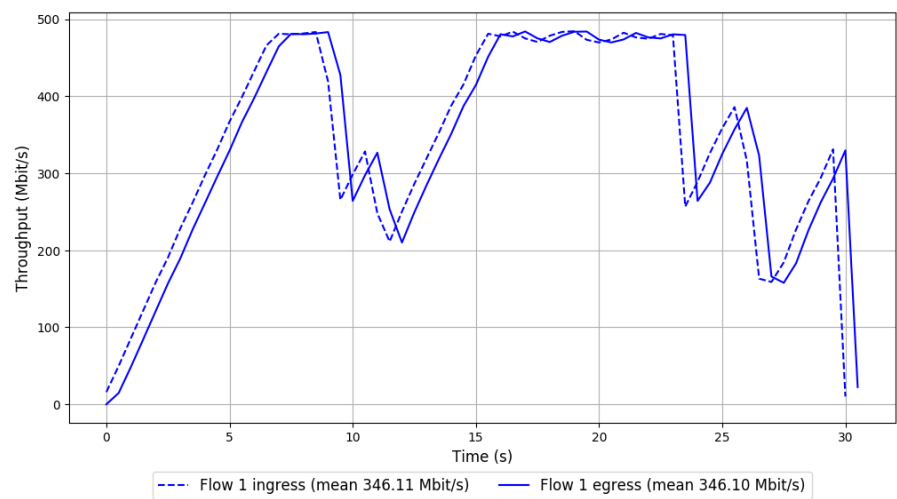


Run 2: Statistics of LEDBAT

Start at: 2018-05-30 09:04:26  
End at: 2018-05-30 09:04:56  
Local clock offset: 0.237 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-05-30 13:26:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 346.10 Mbit/s  
95th percentile per-packet one-way delay: 18.053 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 346.10 Mbit/s  
95th percentile per-packet one-way delay: 18.053 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



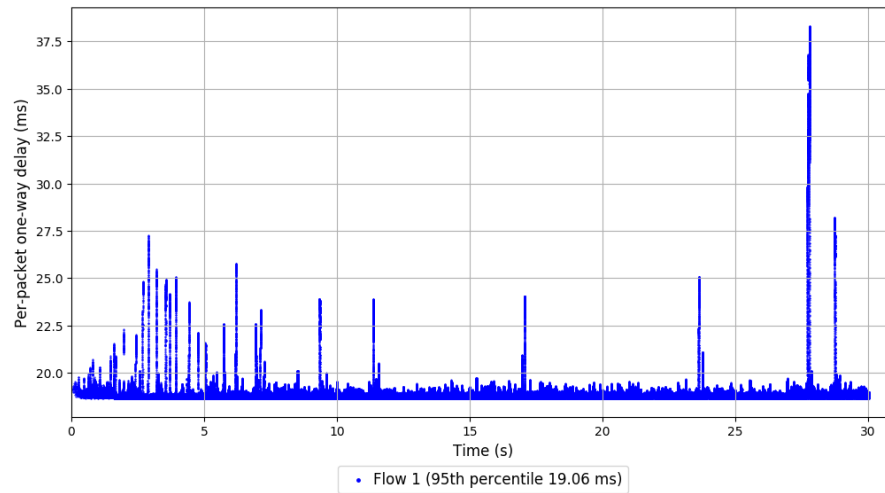
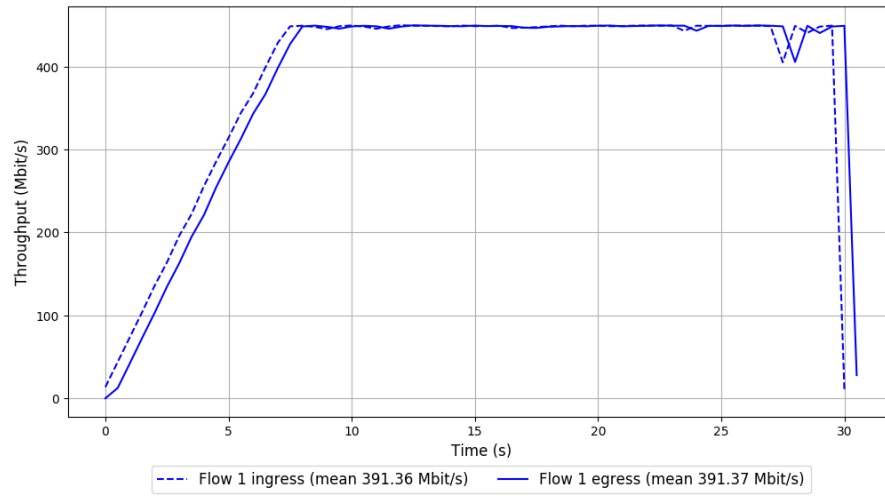
Run 3: Statistics of LEDBAT

Start at: 2018-05-30 09:28:29  
End at: 2018-05-30 09:28:59  
Local clock offset: 0.229 ms  
Remote clock offset: -0.283 ms

# Below is generated by plot.py at 2018-05-30 13:26:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 391.37 Mbit/s  
95th percentile per-packet one-way delay: 19.061 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 391.37 Mbit/s  
95th percentile per-packet one-way delay: 19.061 ms  
Loss rate: 0.00%



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

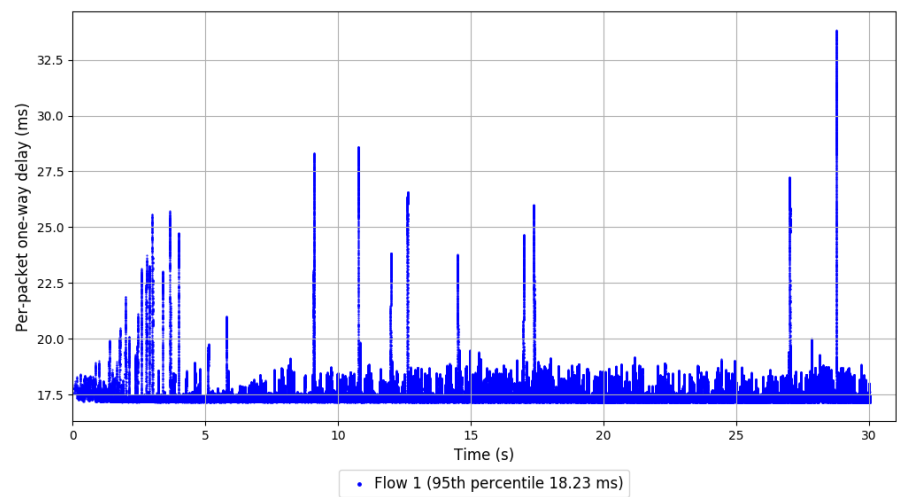
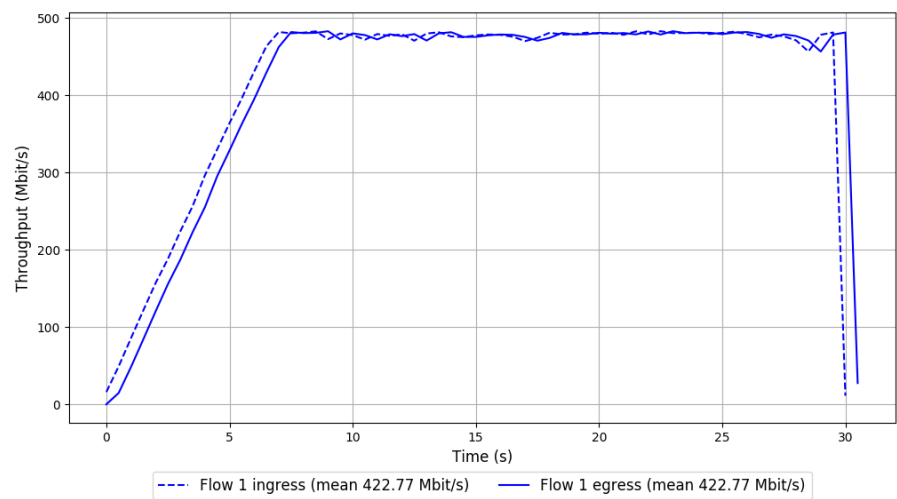


Run 4: Statistics of LEDBAT

Start at: 2018-05-30 09:52:44  
End at: 2018-05-30 09:53:14  
Local clock offset: 0.678 ms  
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2018-05-30 13:26:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 422.77 Mbit/s  
95th percentile per-packet one-way delay: 18.233 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 422.77 Mbit/s  
95th percentile per-packet one-way delay: 18.233 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

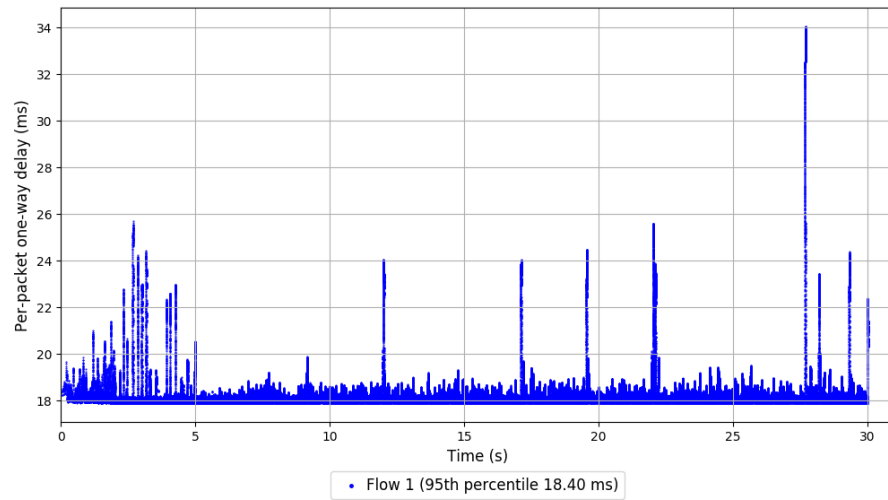
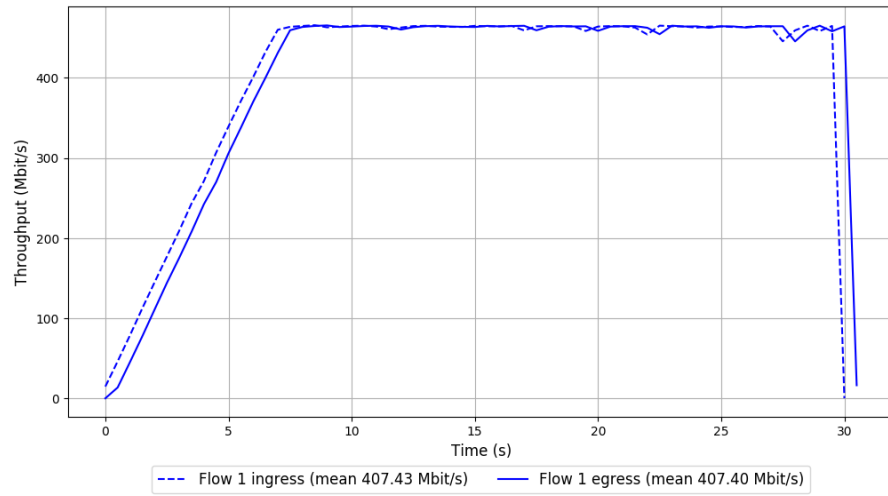


Run 5: Statistics of LEDBAT

Start at: 2018-05-30 10:16:35  
End at: 2018-05-30 10:17:05  
Local clock offset: 0.496 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-05-30 13:27:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 407.40 Mbit/s  
95th percentile per-packet one-way delay: 18.403 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 407.40 Mbit/s  
95th percentile per-packet one-way delay: 18.403 ms  
Loss rate: 0.00%

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

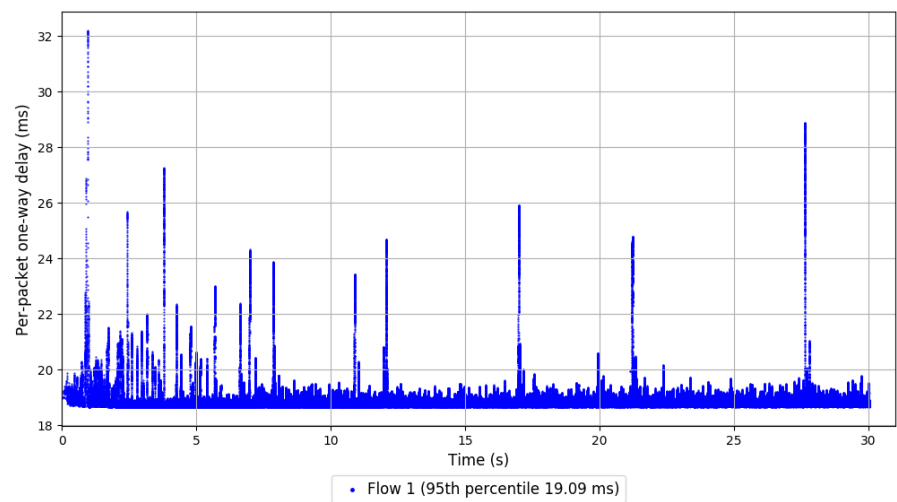
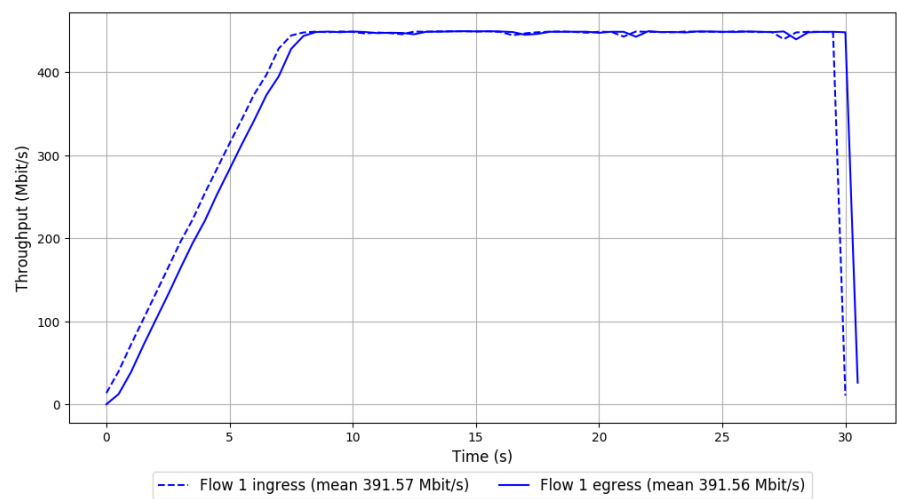


Run 6: Statistics of LEDBAT

Start at: 2018-05-30 10:40:40  
End at: 2018-05-30 10:41:10  
Local clock offset: 0.546 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-05-30 13:27:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 391.56 Mbit/s  
95th percentile per-packet one-way delay: 19.089 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 391.56 Mbit/s  
95th percentile per-packet one-way delay: 19.089 ms  
Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link



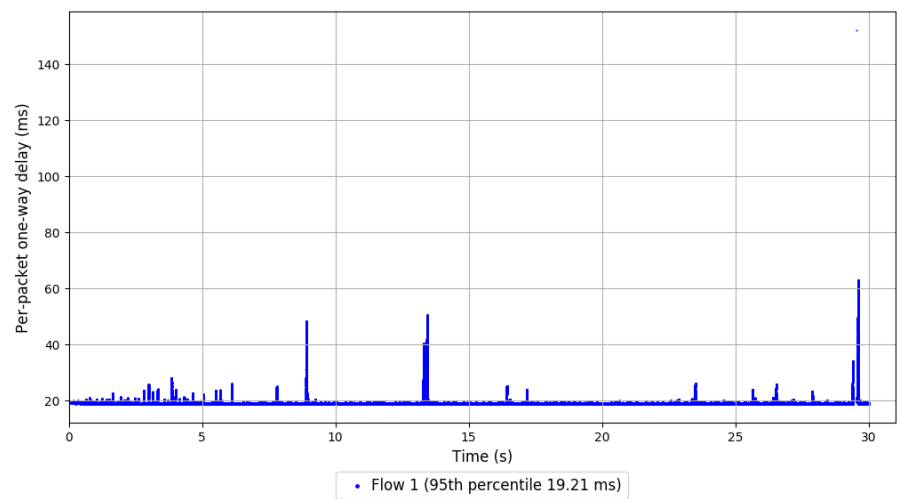
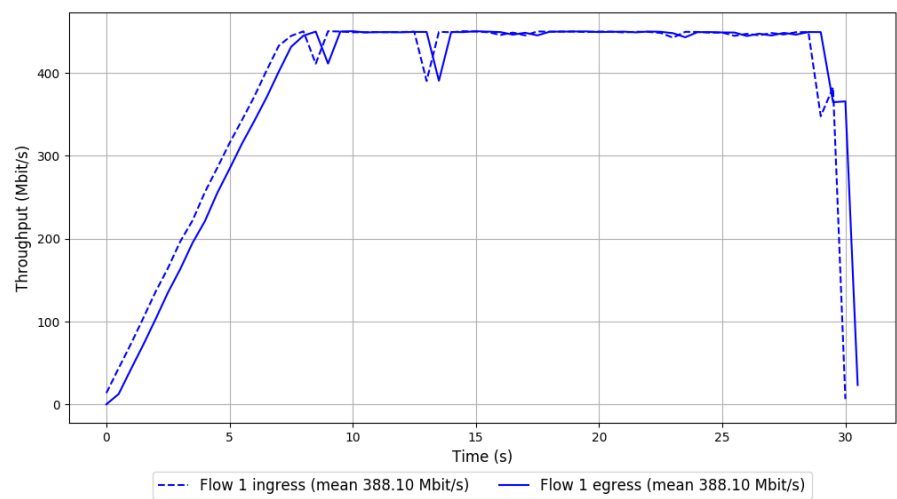
Run 7: Statistics of LEDBAT

Start at: 2018-05-30 11:04:36  
End at: 2018-05-30 11:05:06  
Local clock offset: 0.421 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-05-30 13:29:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 388.10 Mbit/s  
95th percentile per-packet one-way delay: 19.207 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 388.10 Mbit/s  
95th percentile per-packet one-way delay: 19.207 ms  
Loss rate: 0.00%



Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-30 11:28:30

End at: 2018-05-30 11:29:00

Local clock offset: 0.498 ms

Remote clock offset: -0.62 ms

# Below is generated by plot.py at 2018-05-30 13:29:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 385.61 Mbit/s

95th percentile per-packet one-way delay: 19.338 ms

Loss rate: 0.00%

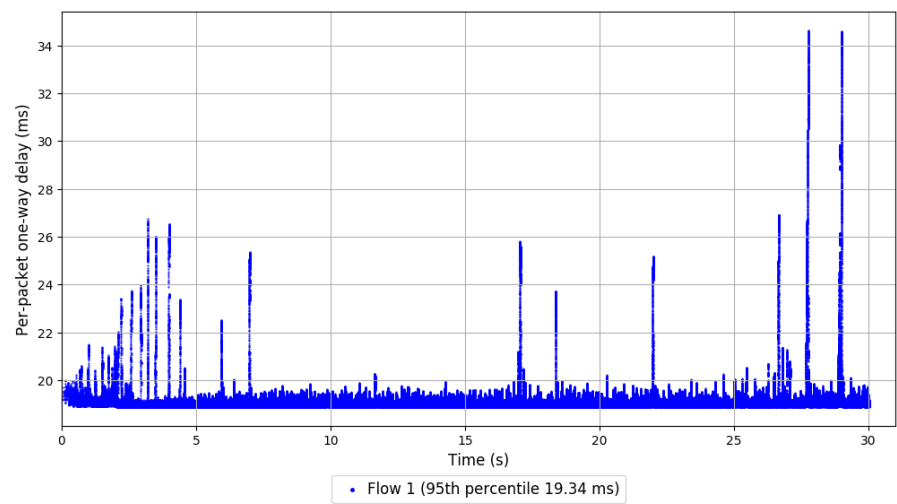
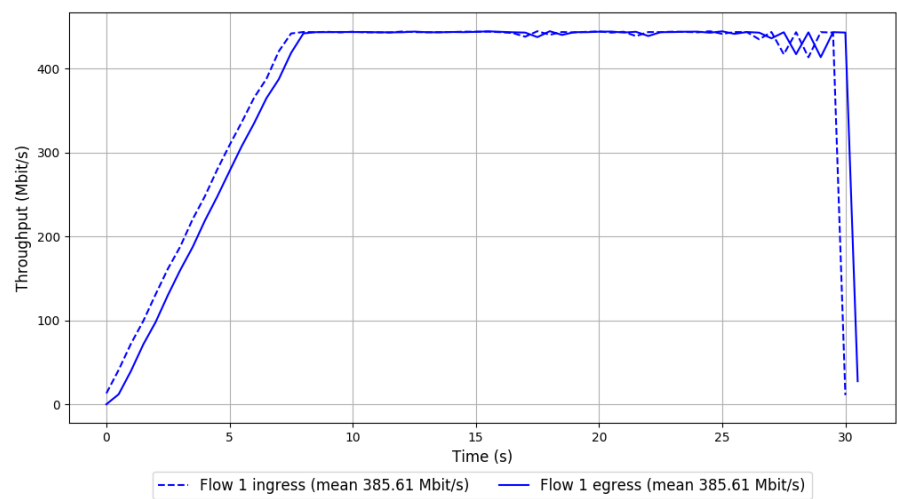
-- Flow 1:

Average throughput: 385.61 Mbit/s

95th percentile per-packet one-way delay: 19.338 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

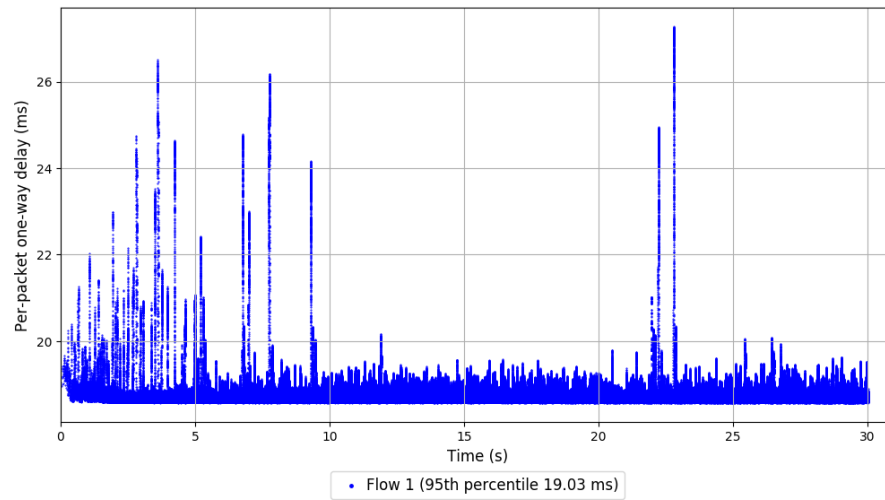
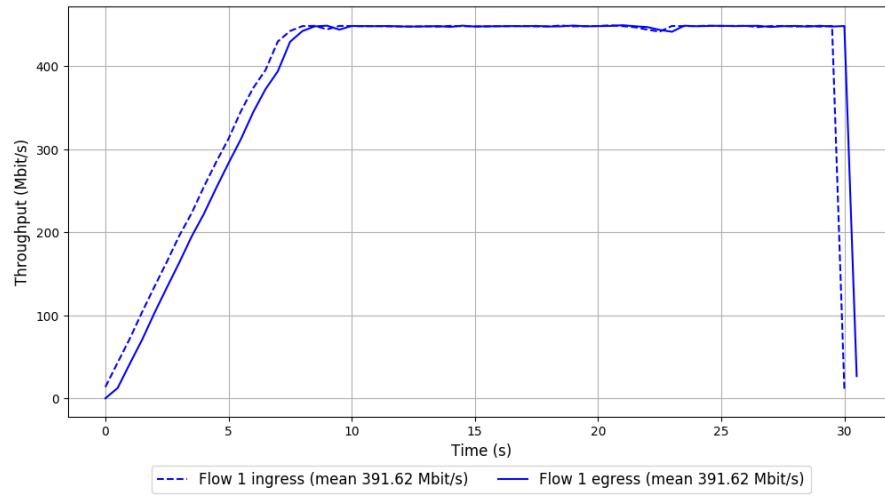


Run 9: Statistics of LEDBAT

Start at: 2018-05-30 11:52:24  
End at: 2018-05-30 11:52:54  
Local clock offset: 0.499 ms  
Remote clock offset: -0.977 ms

# Below is generated by plot.py at 2018-05-30 13:30:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 391.62 Mbit/s  
95th percentile per-packet one-way delay: 19.029 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 391.62 Mbit/s  
95th percentile per-packet one-way delay: 19.029 ms  
Loss rate: 0.01%

### Run 9: Report of LEDBAT — Data Link

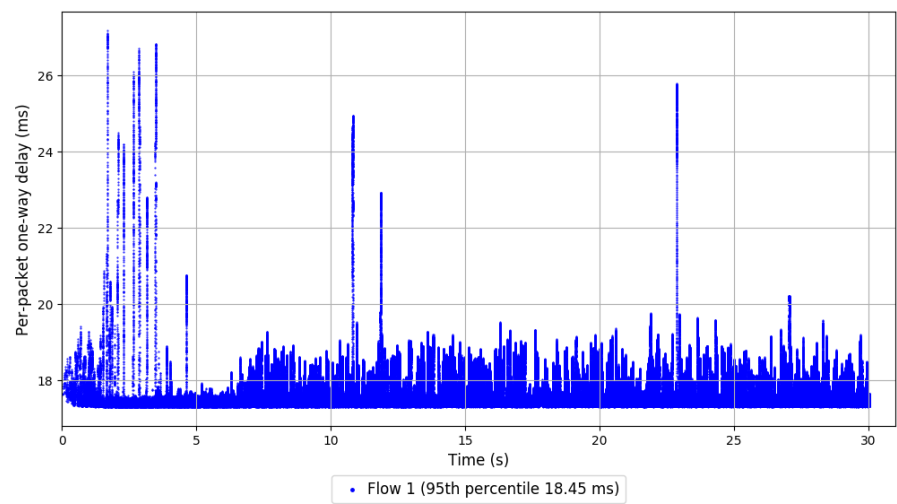
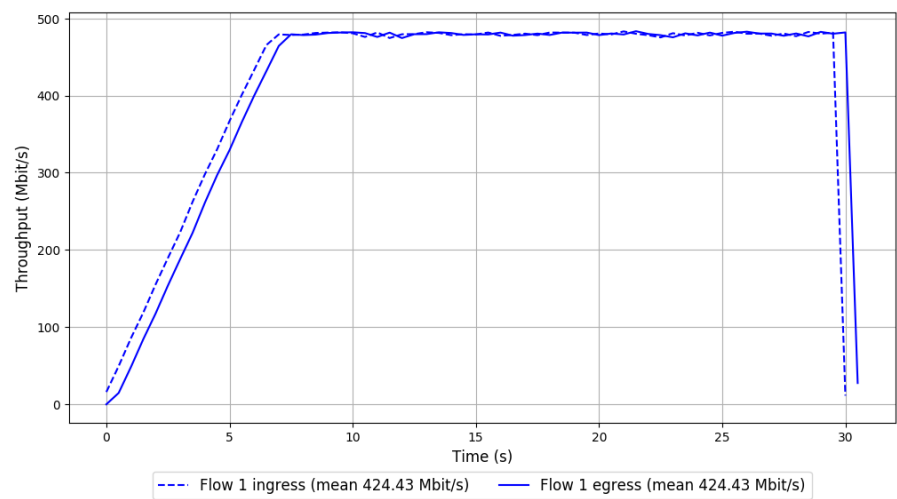


Run 10: Statistics of LEDBAT

Start at: 2018-05-30 12:16:21  
End at: 2018-05-30 12:16:51  
Local clock offset: 0.003 ms  
Remote clock offset: -1.325 ms

# Below is generated by plot.py at 2018-05-30 13:30:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 424.43 Mbit/s  
95th percentile per-packet one-way delay: 18.445 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 424.43 Mbit/s  
95th percentile per-packet one-way delay: 18.445 ms  
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 08:48:02

End at: 2018-05-30 08:48:33

Local clock offset: 0.316 ms

Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2018-05-30 13:36:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 844.64 Mbit/s

95th percentile per-packet one-way delay: 45.765 ms

Loss rate: 0.13%

-- Flow 1:

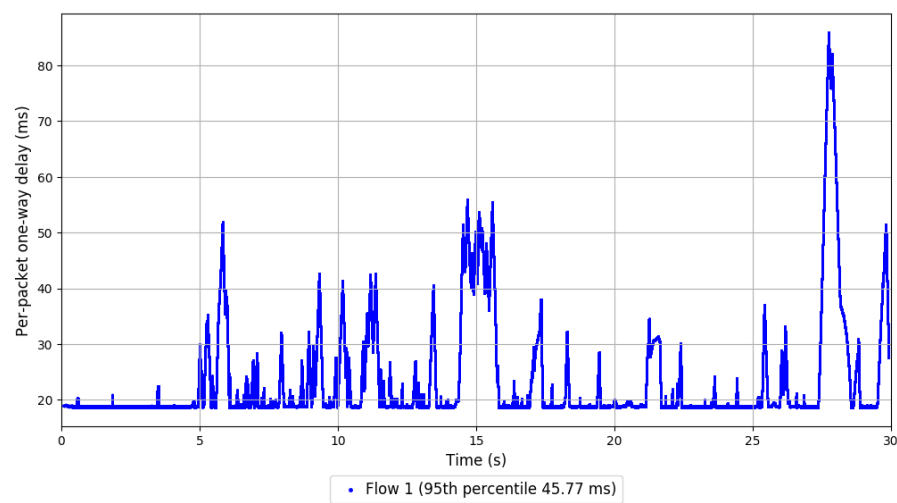
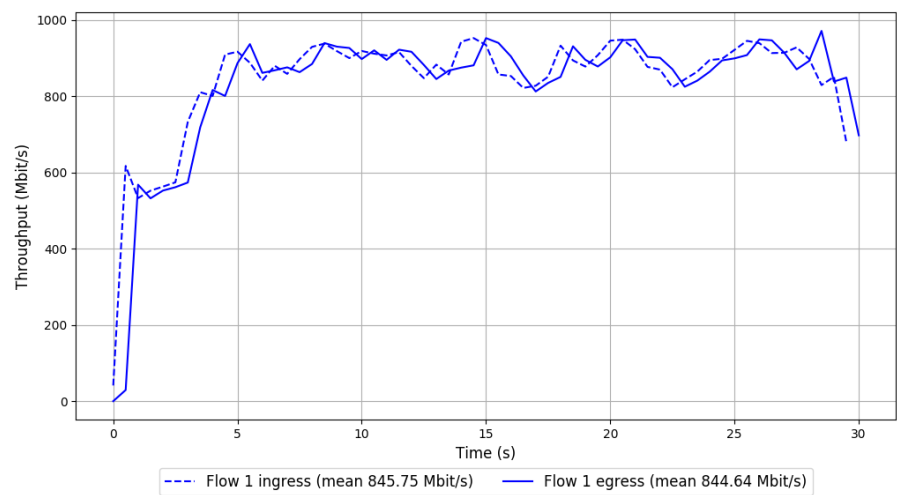
Average throughput: 844.64 Mbit/s

95th percentile per-packet one-way delay: 45.765 ms

Loss rate: 0.13%



Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 09:12:08

End at: 2018-05-30 09:12:38

Local clock offset: 0.18 ms

Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-05-30 13:38:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 887.39 Mbit/s

95th percentile per-packet one-way delay: 26.459 ms

Loss rate: 0.31%

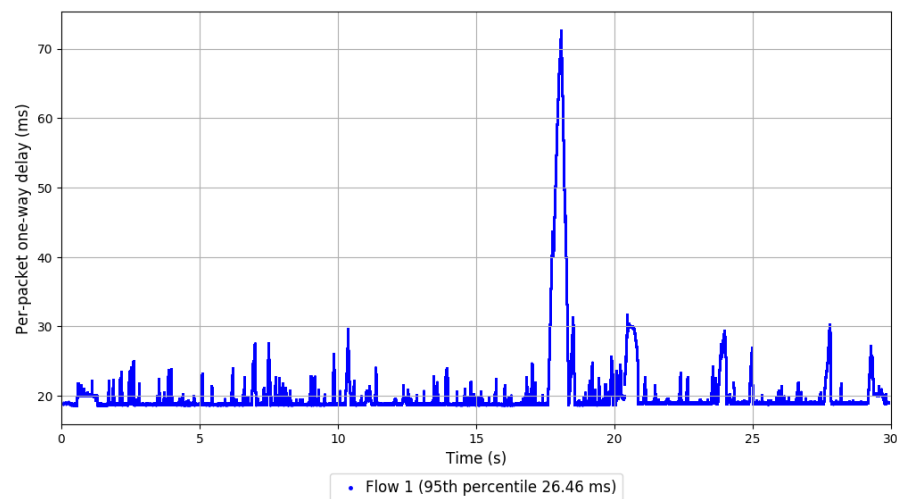
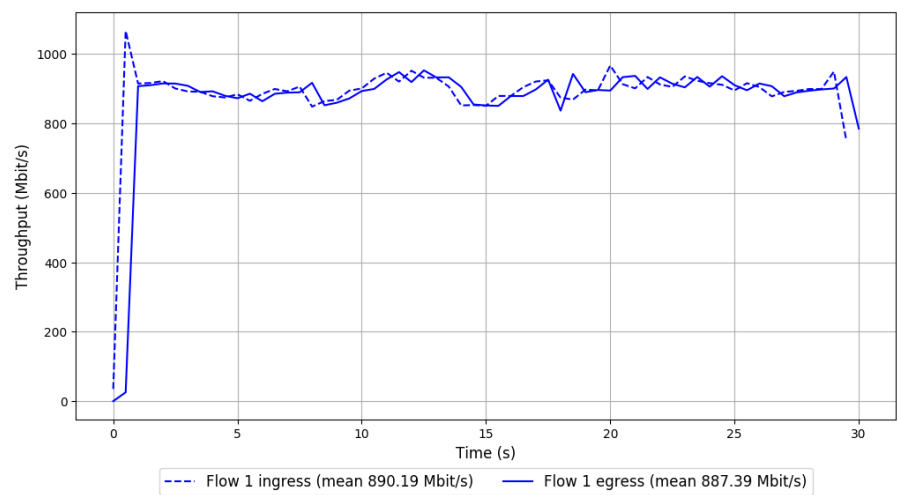
-- Flow 1:

Average throughput: 887.39 Mbit/s

95th percentile per-packet one-way delay: 26.459 ms

Loss rate: 0.31%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 09:36:16

End at: 2018-05-30 09:36:46

Local clock offset: 0.407 ms

Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-05-30 13:38:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 843.95 Mbit/s

95th percentile per-packet one-way delay: 40.737 ms

Loss rate: 0.16%

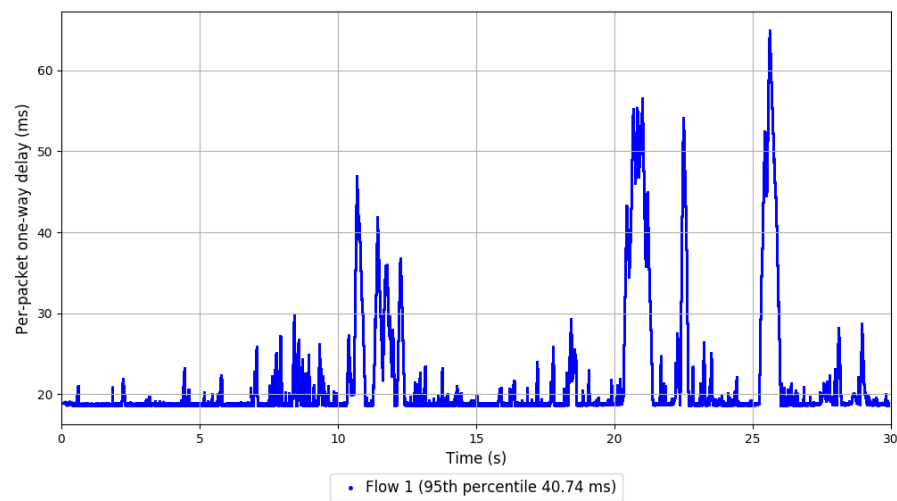
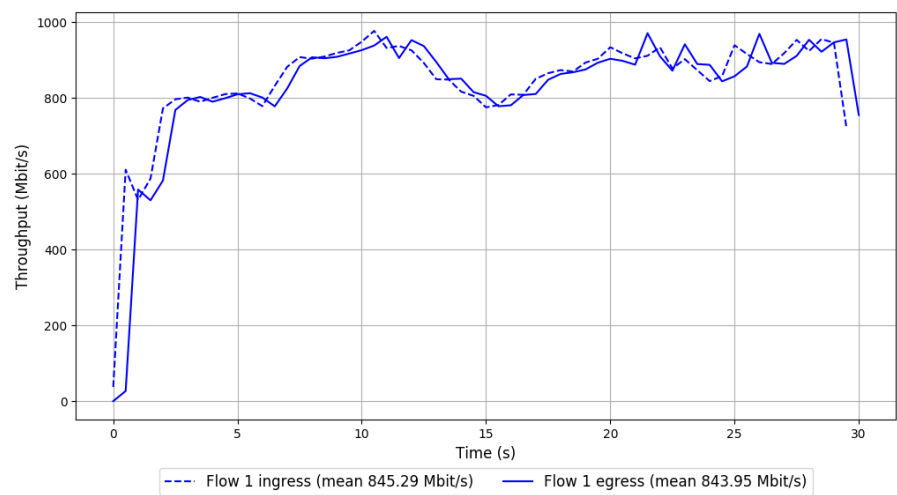
-- Flow 1:

Average throughput: 843.95 Mbit/s

95th percentile per-packet one-way delay: 40.737 ms

Loss rate: 0.16%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 10:00:24

End at: 2018-05-30 10:00:54

Local clock offset: 0.476 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-05-30 13:38:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 803.60 Mbit/s

95th percentile per-packet one-way delay: 22.525 ms

Loss rate: 0.11%

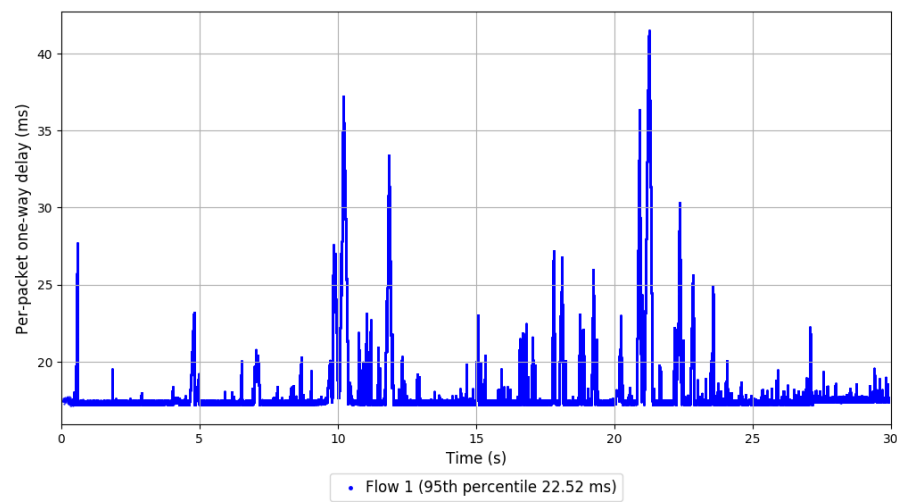
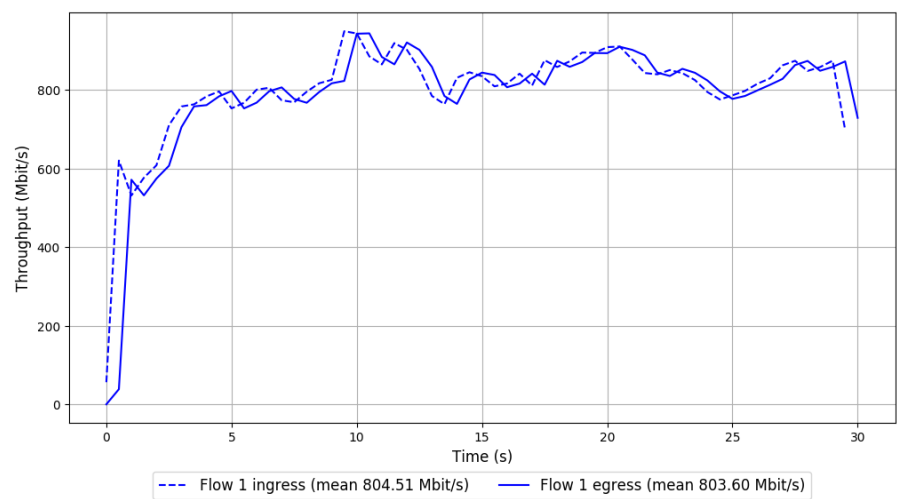
-- Flow 1:

Average throughput: 803.60 Mbit/s

95th percentile per-packet one-way delay: 22.525 ms

Loss rate: 0.11%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 10:24:18

End at: 2018-05-30 10:24:48

Local clock offset: 0.421 ms

Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-05-30 13:40:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 904.52 Mbit/s

95th percentile per-packet one-way delay: 30.230 ms

Loss rate: 0.51%

-- Flow 1:

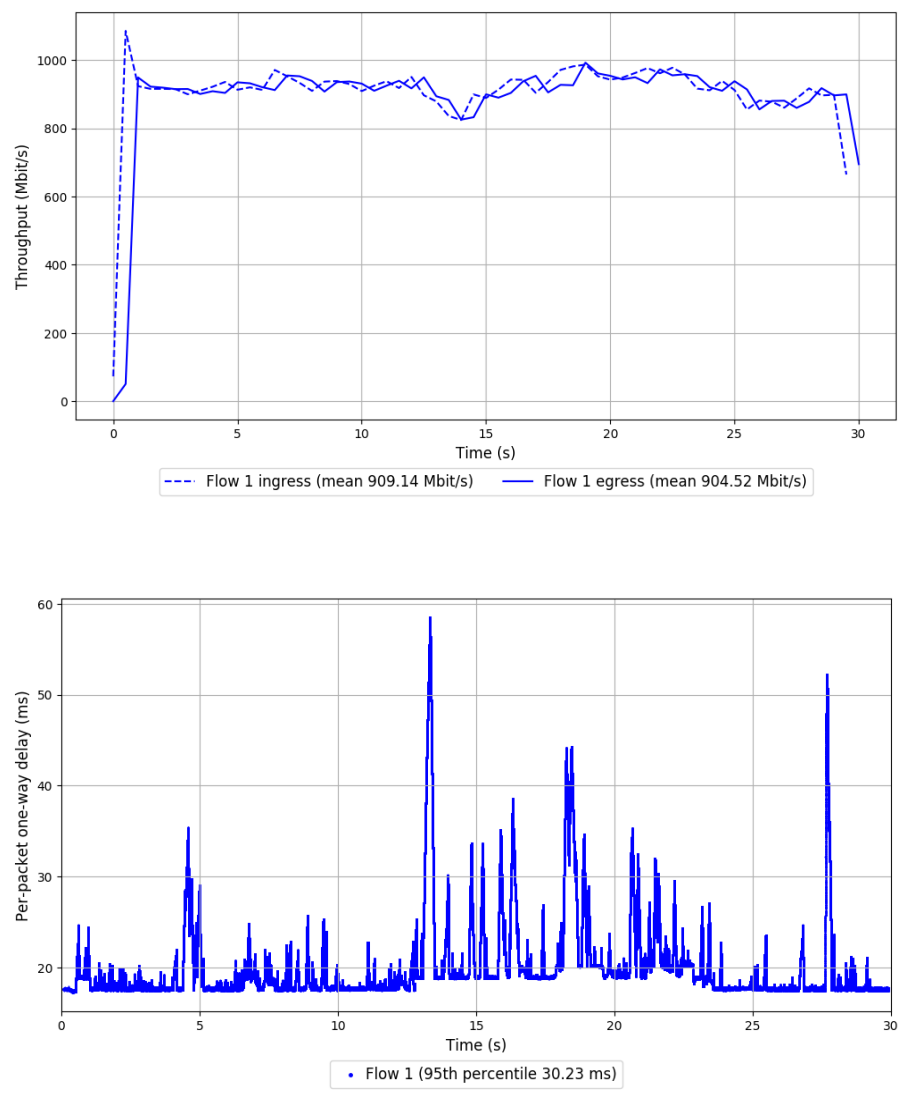
Average throughput: 904.52 Mbit/s

95th percentile per-packet one-way delay: 30.230 ms

Loss rate: 0.51%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 10:48:20

End at: 2018-05-30 10:48:50

Local clock offset: 0.505 ms

Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-05-30 13:40:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 851.22 Mbit/s

95th percentile per-packet one-way delay: 45.943 ms

Loss rate: 0.45%

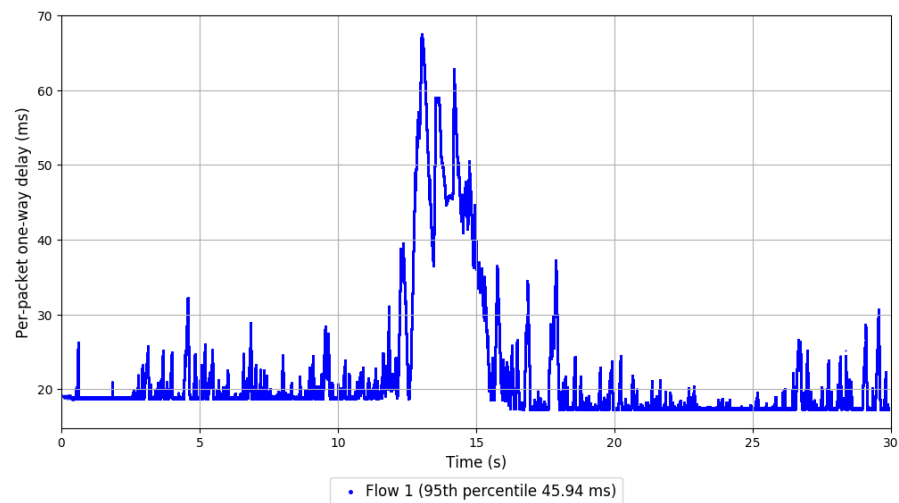
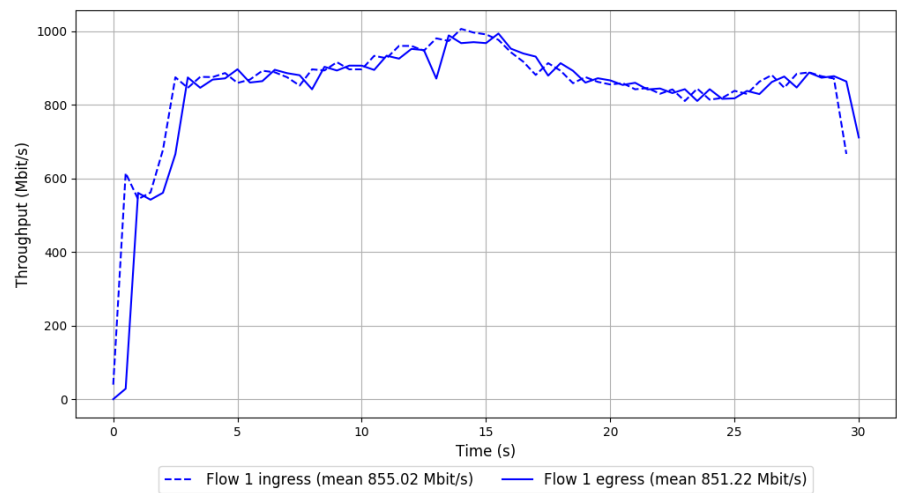
-- Flow 1:

Average throughput: 851.22 Mbit/s

95th percentile per-packet one-way delay: 45.943 ms

Loss rate: 0.45%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 11:12:16

End at: 2018-05-30 11:12:46

Local clock offset: 0.422 ms

Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2018-05-30 13:40:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 844.23 Mbit/s

95th percentile per-packet one-way delay: 19.842 ms

Loss rate: 0.10%

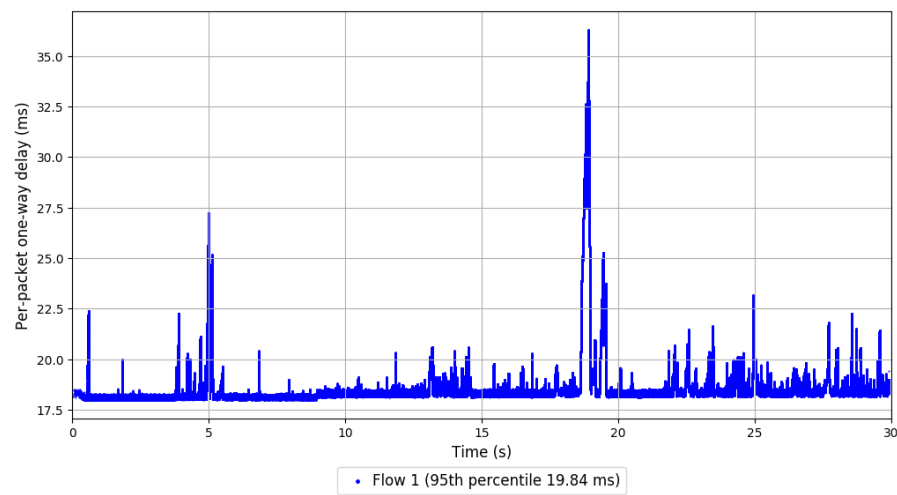
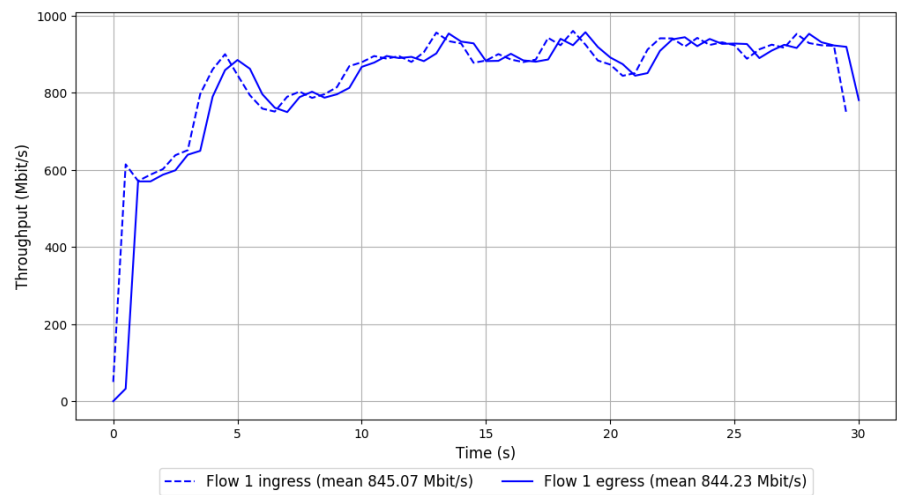
-- Flow 1:

Average throughput: 844.23 Mbit/s

95th percentile per-packet one-way delay: 19.842 ms

Loss rate: 0.10%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 11:36:10

End at: 2018-05-30 11:36:40

Local clock offset: 0.466 ms

Remote clock offset: -0.737 ms

# Below is generated by plot.py at 2018-05-30 13:42:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 873.63 Mbit/s

95th percentile per-packet one-way delay: 21.496 ms

Loss rate: 0.20%

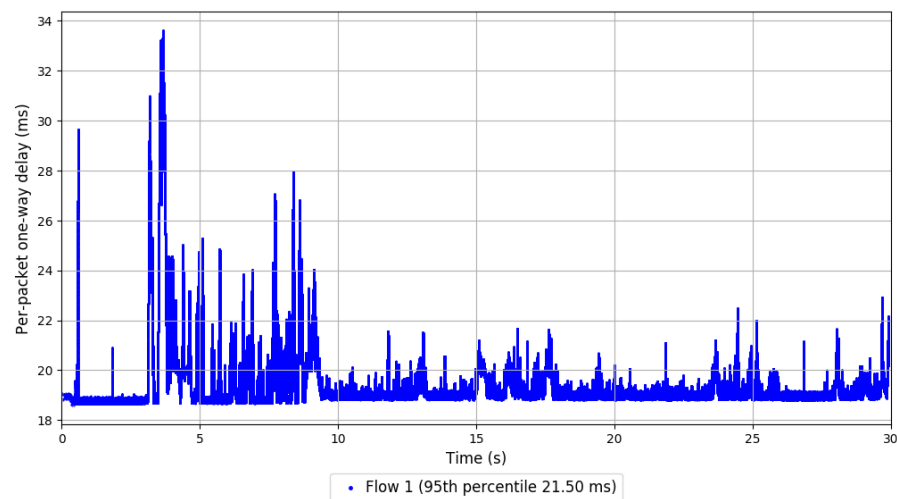
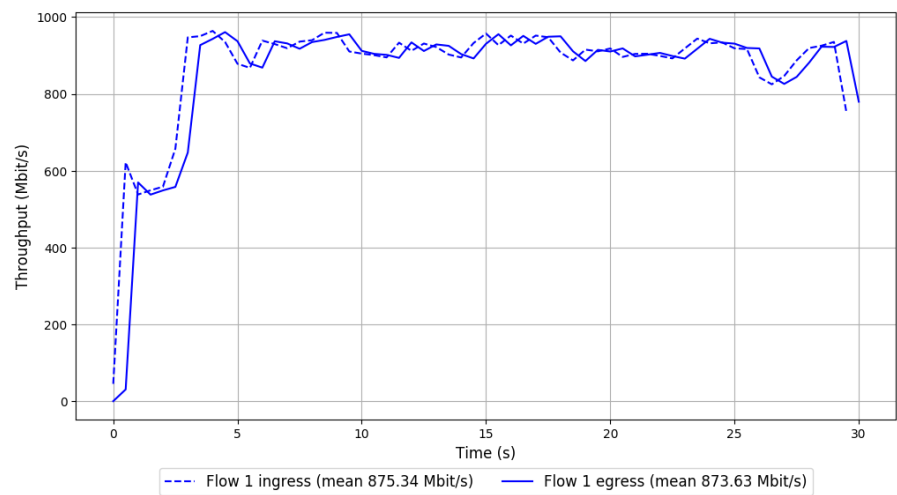
-- Flow 1:

Average throughput: 873.63 Mbit/s

95th percentile per-packet one-way delay: 21.496 ms

Loss rate: 0.20%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 12:00:04

End at: 2018-05-30 12:00:34

Local clock offset: 0.298 ms

Remote clock offset: -1.0 ms

# Below is generated by plot.py at 2018-05-30 13:47:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 833.73 Mbit/s

95th percentile per-packet one-way delay: 21.107 ms

Loss rate: 0.13%

-- Flow 1:

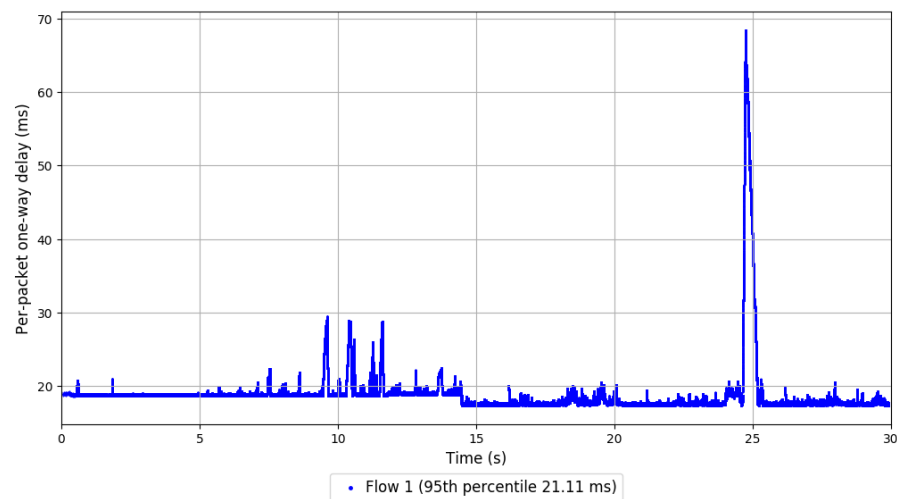
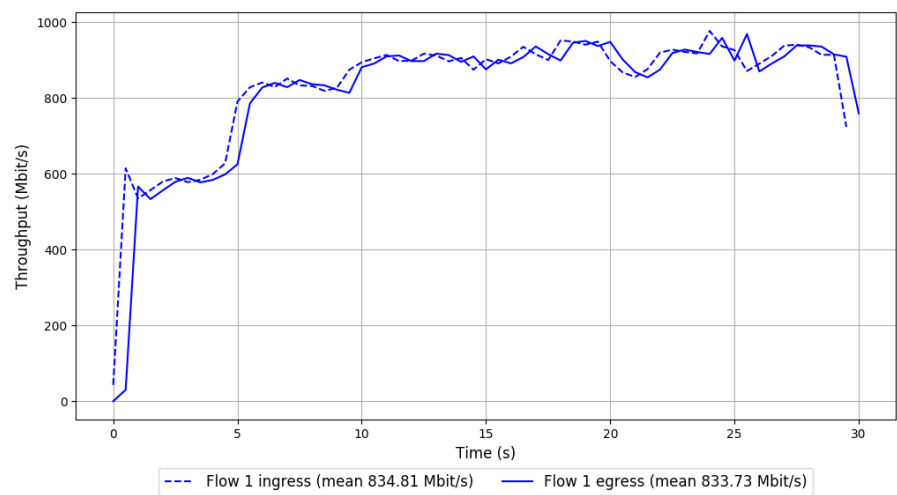
Average throughput: 833.73 Mbit/s

95th percentile per-packet one-way delay: 21.107 ms

Loss rate: 0.13%



Run 9: Report of PCC-Allegro — Data Link

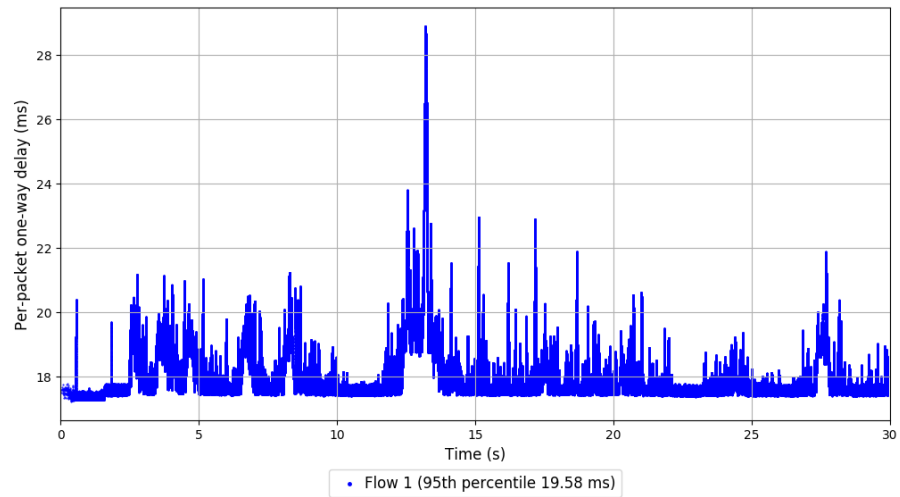
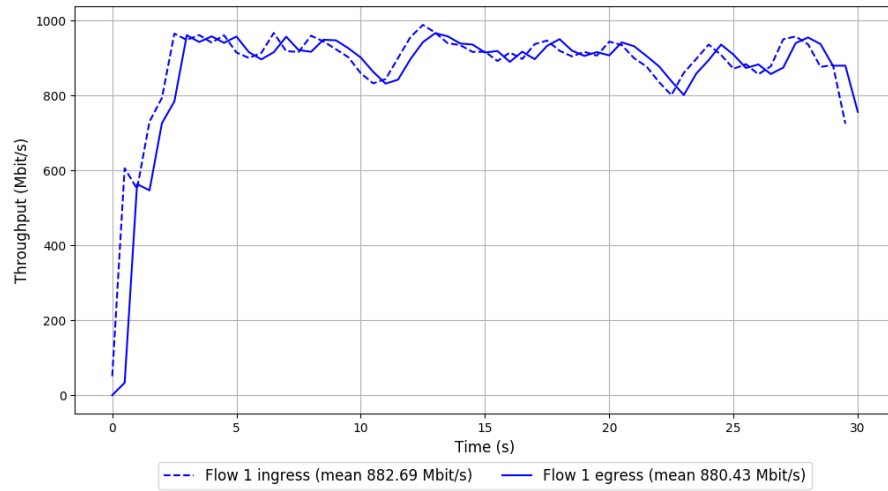


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 12:24:01  
End at: 2018-05-30 12:24:31  
Local clock offset: 0.054 ms  
Remote clock offset: -1.023 ms

# Below is generated by plot.py at 2018-05-30 13:48:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 880.43 Mbit/s  
95th percentile per-packet one-way delay: 19.577 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 880.43 Mbit/s  
95th percentile per-packet one-way delay: 19.577 ms  
Loss rate: 0.26%

### Run 10: Report of PCC-Allegro — Data Link

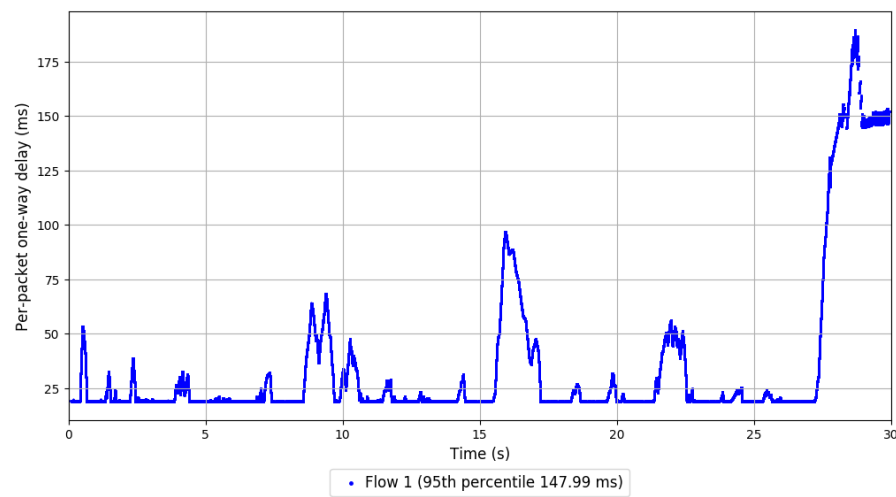
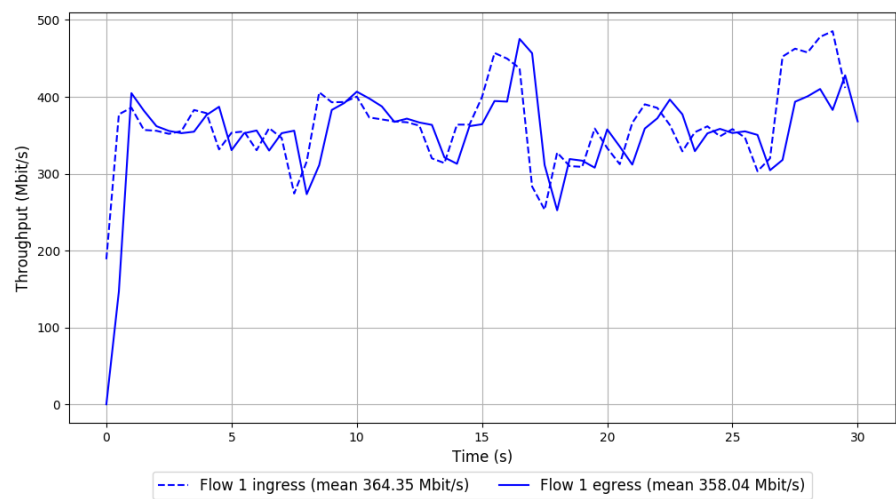


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 08:46:24
End at: 2018-05-30 08:46:54
Local clock offset: 0.329 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-05-30 13:48:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.04 Mbit/s
95th percentile per-packet one-way delay: 147.987 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 358.04 Mbit/s
95th percentile per-packet one-way delay: 147.987 ms
Loss rate: 1.73%
```

Run 1: Report of PCC-Expr — Data Link

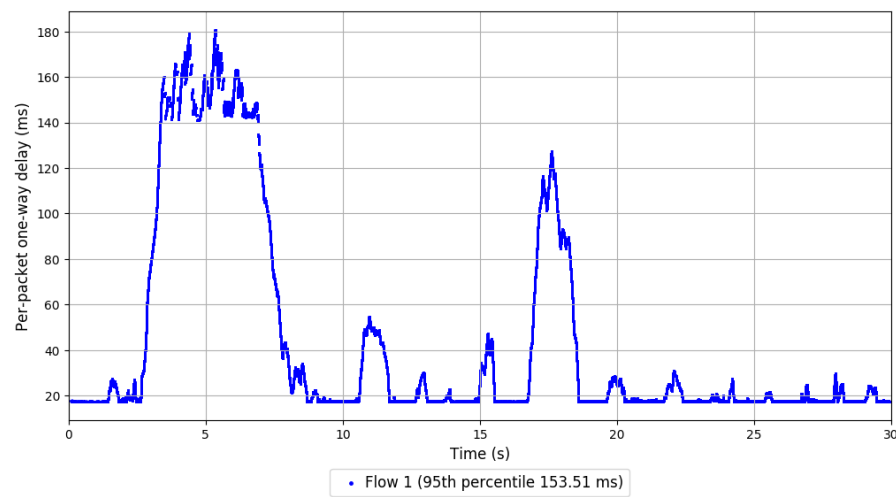
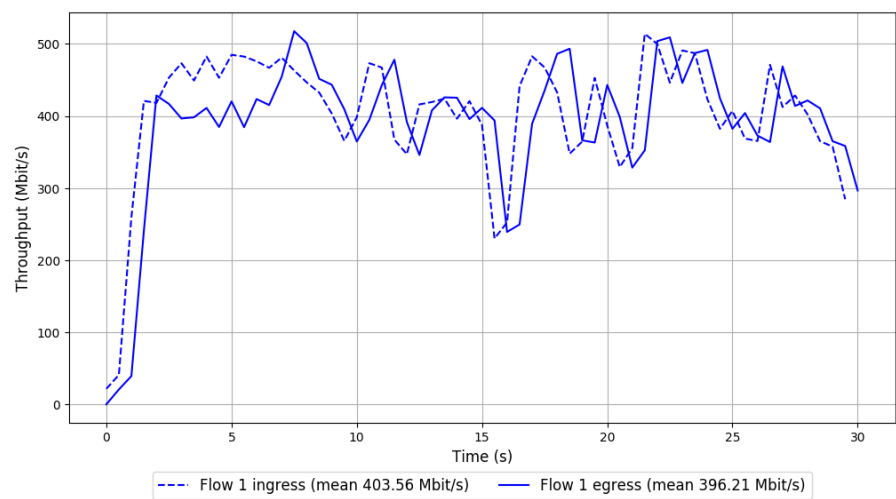


Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 09:10:27  
End at: 2018-05-30 09:10:57  
Local clock offset: 0.098 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-05-30 13:48:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 396.21 Mbit/s  
95th percentile per-packet one-way delay: 153.508 ms  
Loss rate: 1.82%  
-- Flow 1:  
Average throughput: 396.21 Mbit/s  
95th percentile per-packet one-way delay: 153.508 ms  
Loss rate: 1.82%

Run 2: Report of PCC-Expr — Data Link



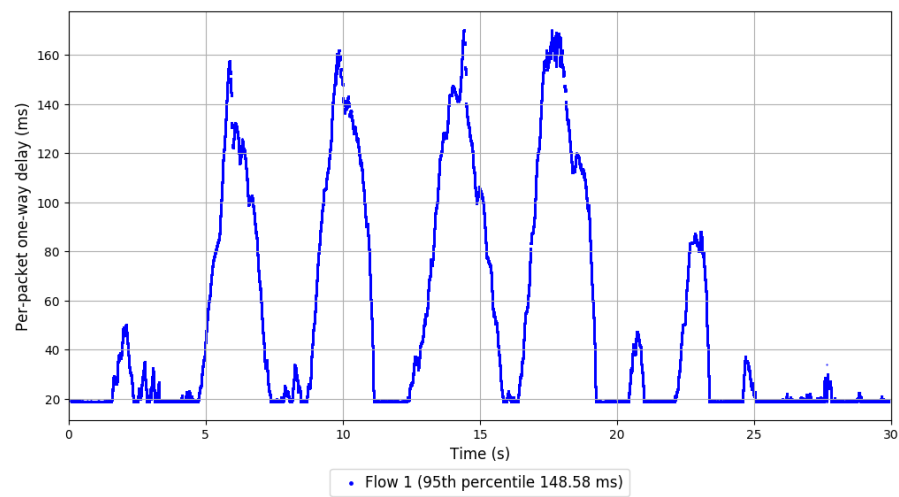
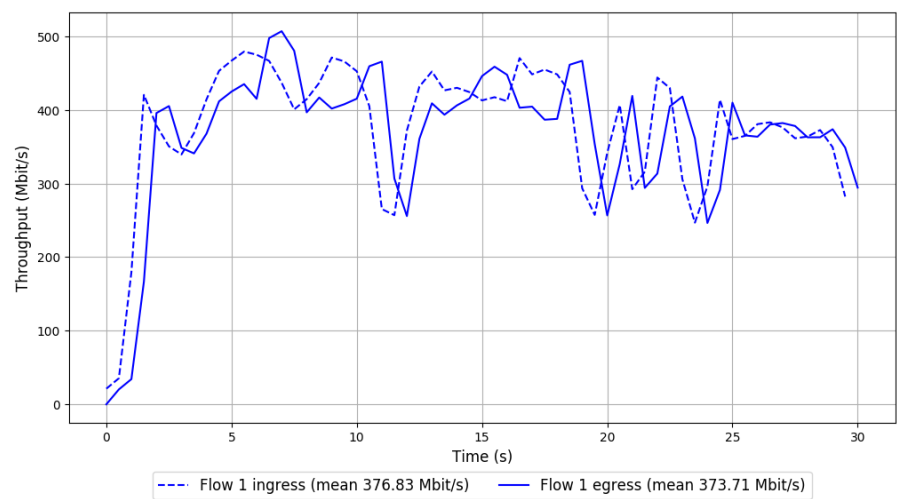
Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 09:34:37  
End at: 2018-05-30 09:35:07  
Local clock offset: 0.402 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-05-30 13:48:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 373.71 Mbit/s  
95th percentile per-packet one-way delay: 148.578 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 373.71 Mbit/s  
95th percentile per-packet one-way delay: 148.578 ms  
Loss rate: 0.83%



Run 3: Report of PCC-Expr — Data Link

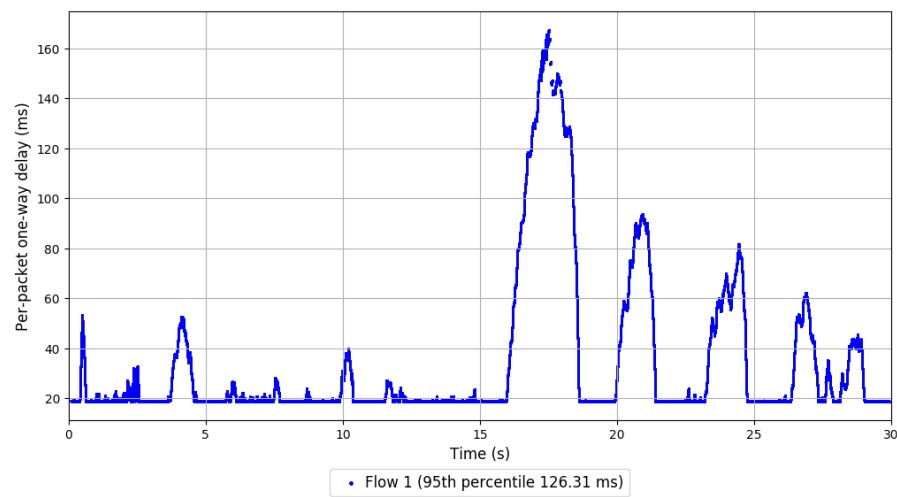
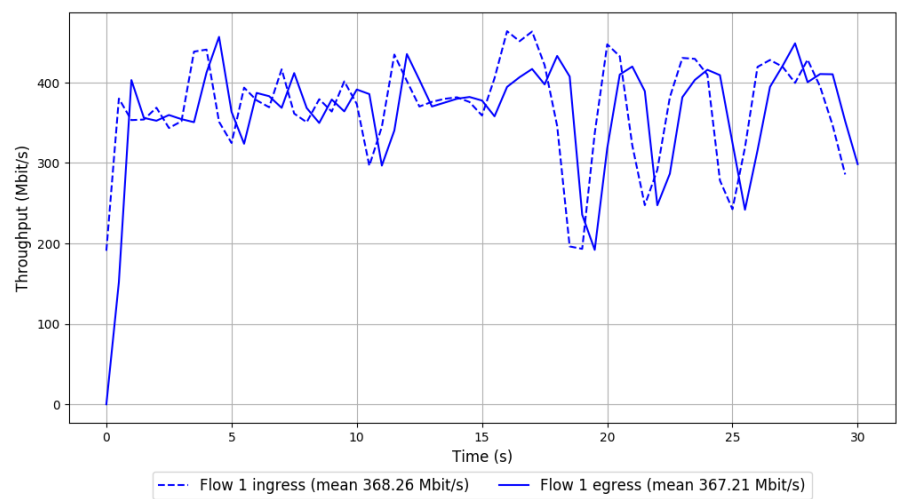


Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 09:58:45  
End at: 2018-05-30 09:59:15  
Local clock offset: 0.416 ms  
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2018-05-30 13:49:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 367.21 Mbit/s  
95th percentile per-packet one-way delay: 126.307 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 367.21 Mbit/s  
95th percentile per-packet one-way delay: 126.307 ms  
Loss rate: 0.28%

Run 4: Report of PCC-Expr — Data Link

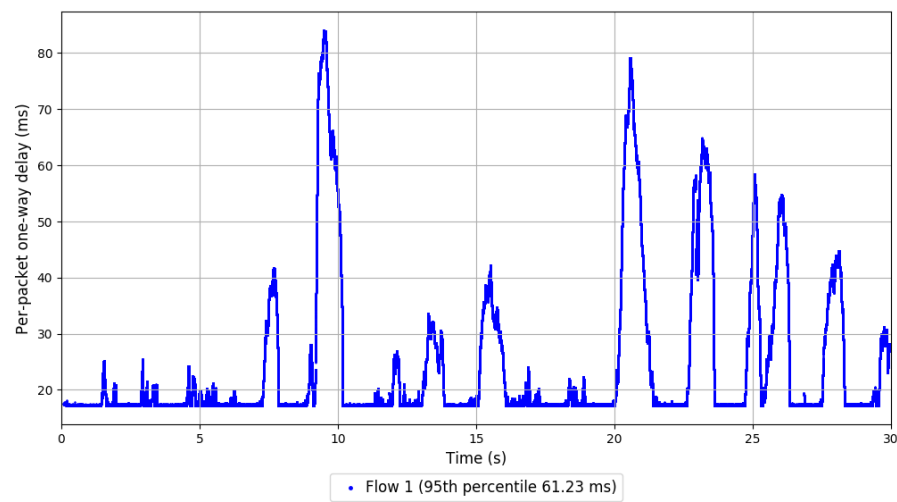
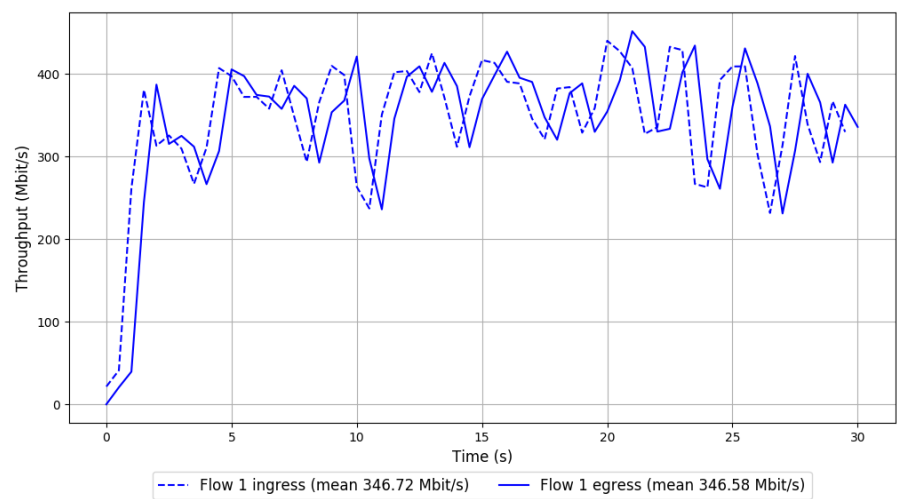


Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 10:22:40  
End at: 2018-05-30 10:23:10  
Local clock offset: 0.523 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-05-30 13:49:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 346.58 Mbit/s  
95th percentile per-packet one-way delay: 61.231 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 346.58 Mbit/s  
95th percentile per-packet one-way delay: 61.231 ms  
Loss rate: 0.04%

Run 5: Report of PCC-Expr — Data Link

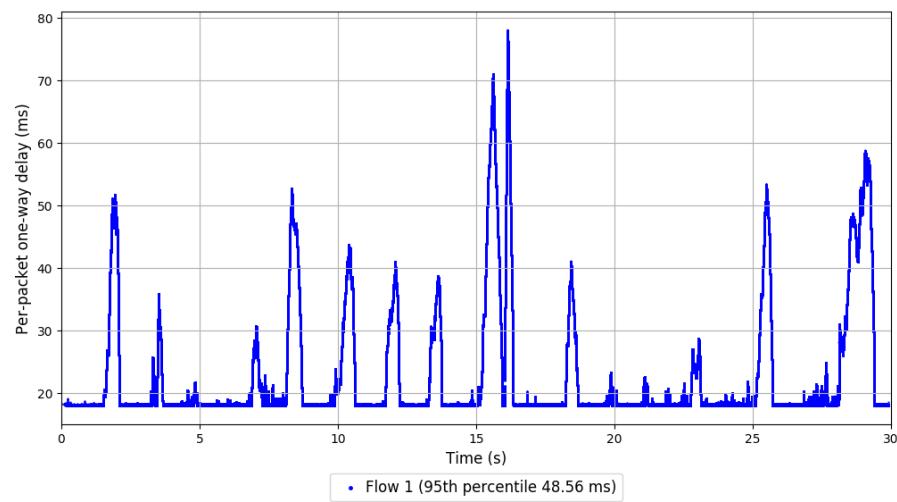
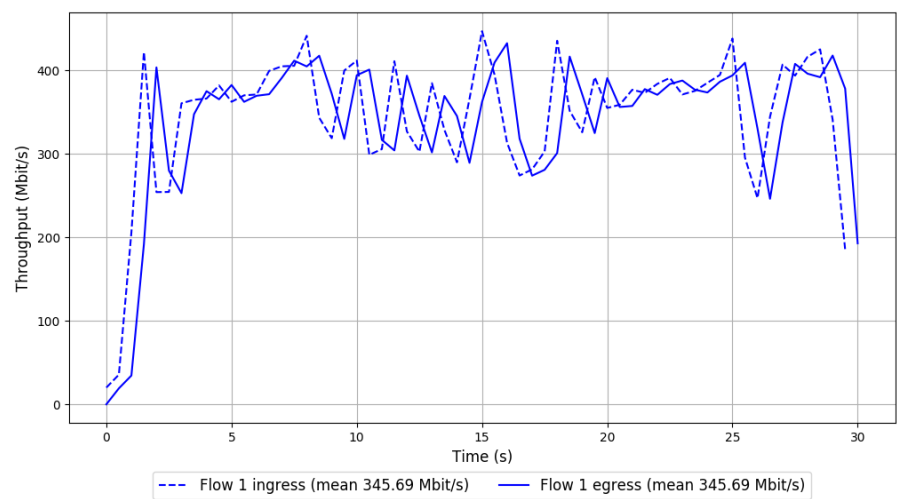


Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 10:46:42  
End at: 2018-05-30 10:47:12  
Local clock offset: 0.48 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-05-30 13:50:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 345.69 Mbit/s  
95th percentile per-packet one-way delay: 48.561 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 345.69 Mbit/s  
95th percentile per-packet one-way delay: 48.561 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



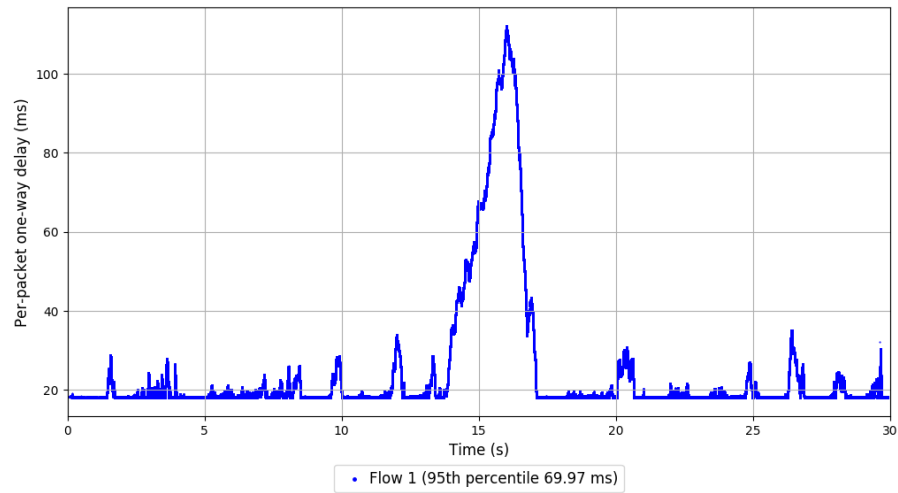
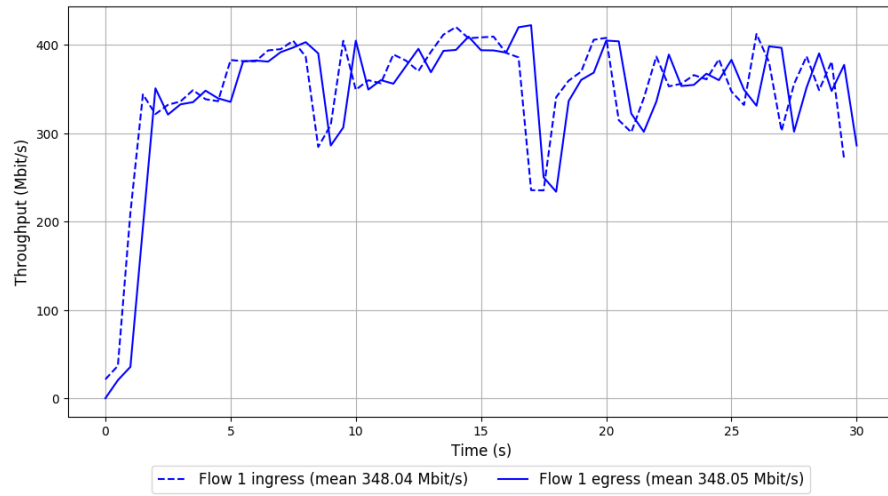
Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 11:10:38  
End at: 2018-05-30 11:11:08  
Local clock offset: 0.512 ms  
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2018-05-30 13:54:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 348.05 Mbit/s  
95th percentile per-packet one-way delay: 69.974 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 348.05 Mbit/s  
95th percentile per-packet one-way delay: 69.974 ms  
Loss rate: 0.00%



# Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 11:34:31

End at: 2018-05-30 11:35:01

Local clock offset: 0.409 ms

Remote clock offset: -0.75 ms

# Below is generated by plot.py at 2018-05-30 13:56:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 368.93 Mbit/s

95th percentile per-packet one-way delay: 63.075 ms

Loss rate: 0.01%

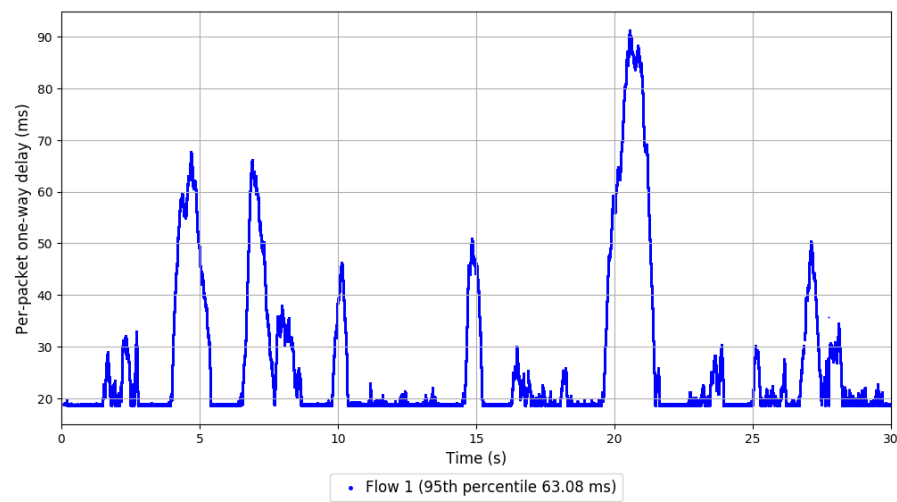
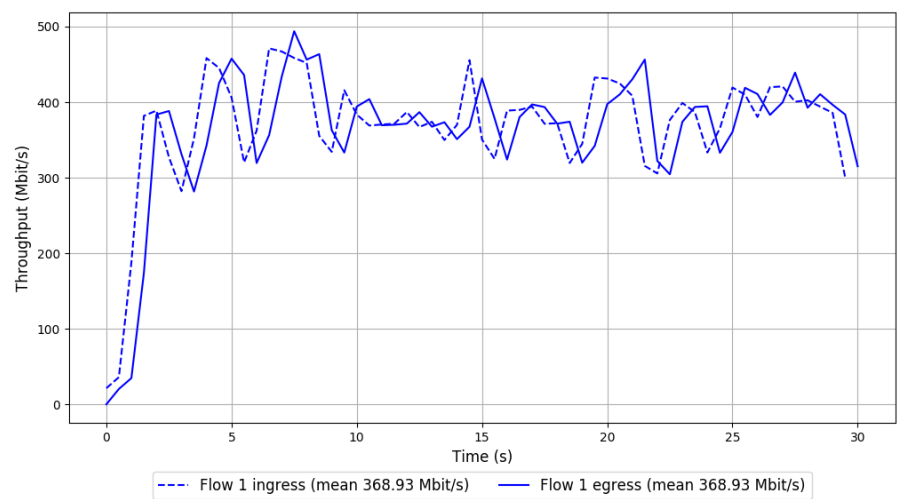
-- Flow 1:

Average throughput: 368.93 Mbit/s

95th percentile per-packet one-way delay: 63.075 ms

Loss rate: 0.01%

Run 8: Report of PCC-Expr — Data Link

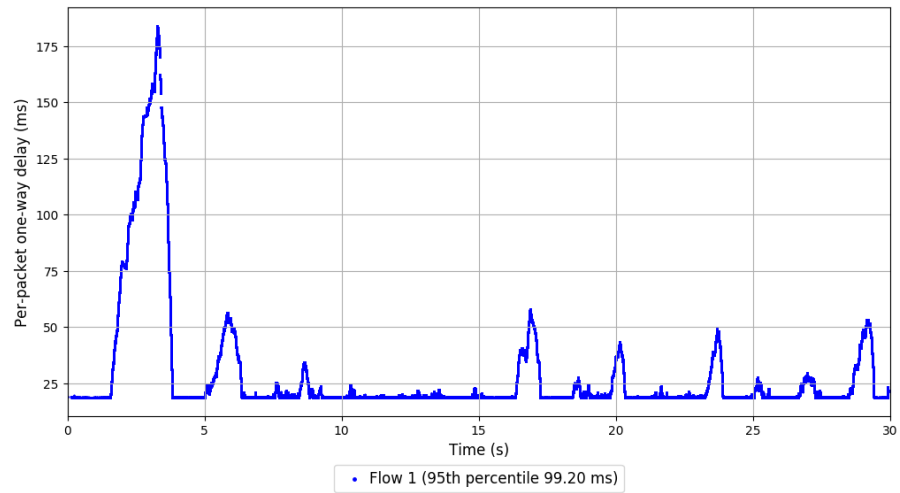
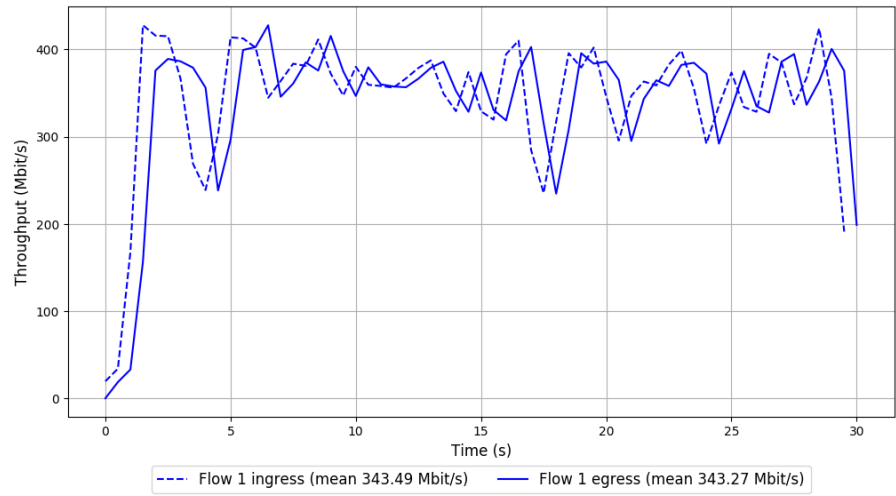


Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 11:58:26  
End at: 2018-05-30 11:58:56  
Local clock offset: 0.324 ms  
Remote clock offset: -1.047 ms

# Below is generated by plot.py at 2018-05-30 13:56:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 343.27 Mbit/s  
95th percentile per-packet one-way delay: 99.203 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 343.27 Mbit/s  
95th percentile per-packet one-way delay: 99.203 ms  
Loss rate: 0.07%

### Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 12:22:23

End at: 2018-05-30 12:22:53

Local clock offset: -0.031 ms

Remote clock offset: -1.15 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 345.66 Mbit/s

95th percentile per-packet one-way delay: 91.071 ms

Loss rate: 0.07%

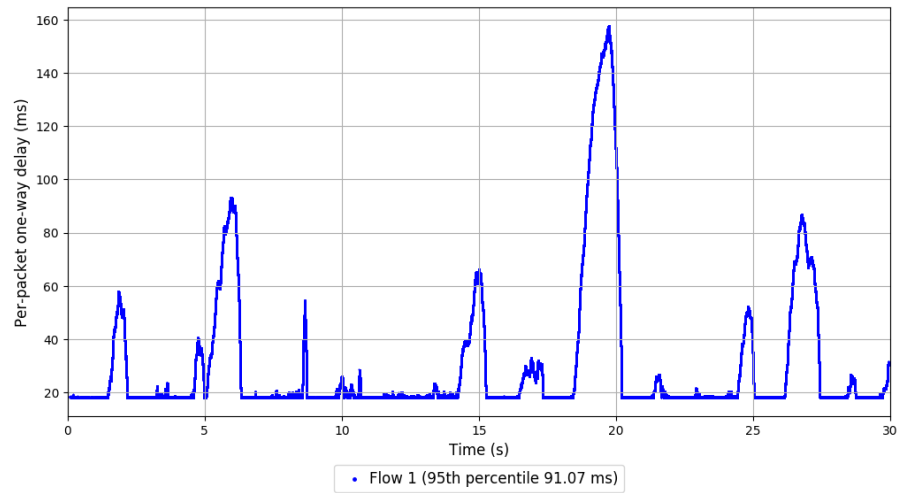
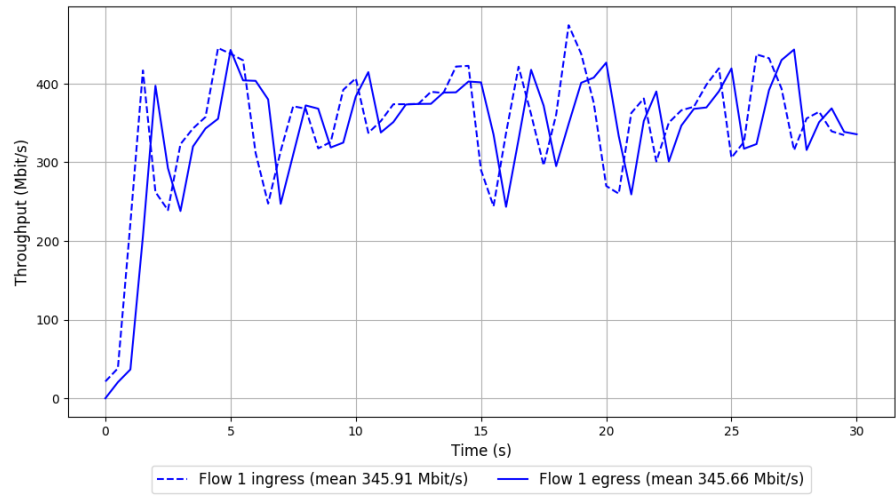
-- Flow 1:

Average throughput: 345.66 Mbit/s

95th percentile per-packet one-way delay: 91.071 ms

Loss rate: 0.07%

# Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-30 08:45:04

End at: 2018-05-30 08:45:34

Local clock offset: 0.216 ms

Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 19.020 ms

Loss rate: 0.00%

-- Flow 1:

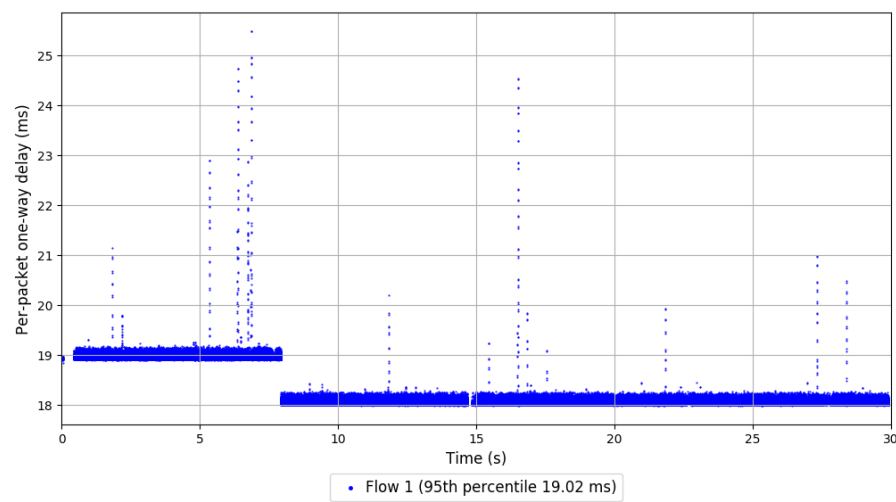
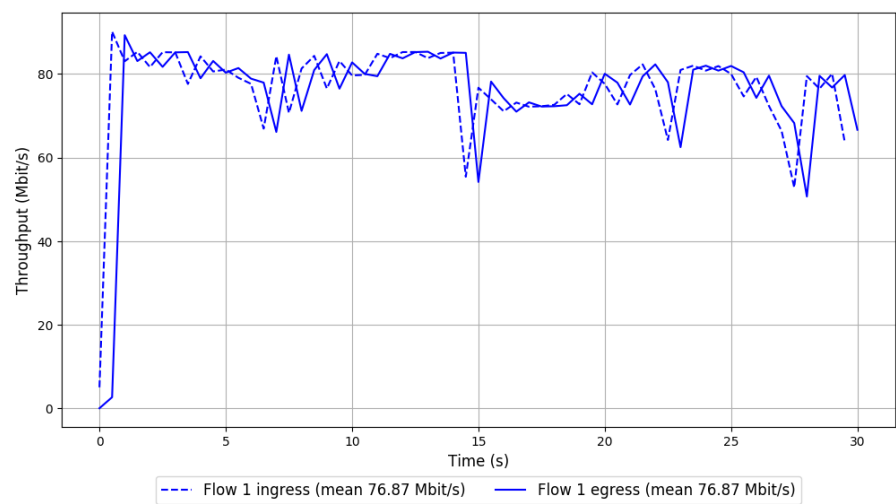
Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 19.020 ms

Loss rate: 0.00%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 09:09:06

End at: 2018-05-30 09:09:36

Local clock offset: 0.202 ms

Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.89 Mbit/s

95th percentile per-packet one-way delay: 18.896 ms

Loss rate: 0.00%

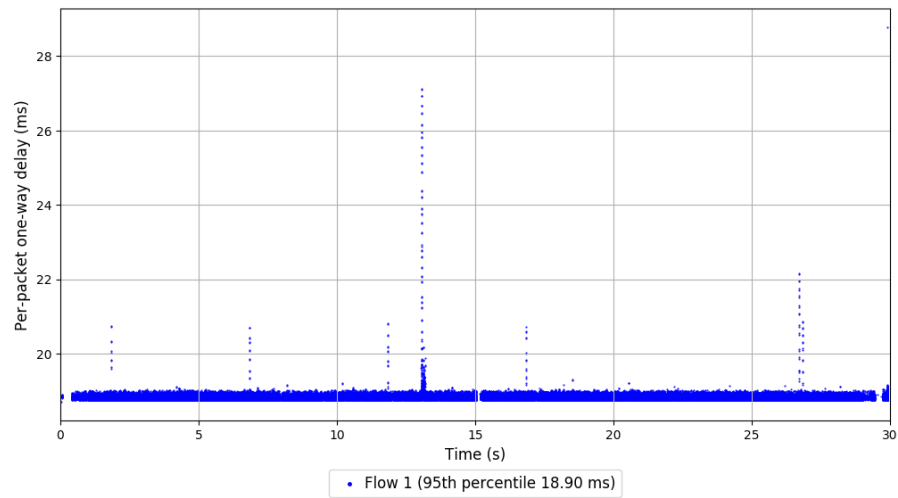
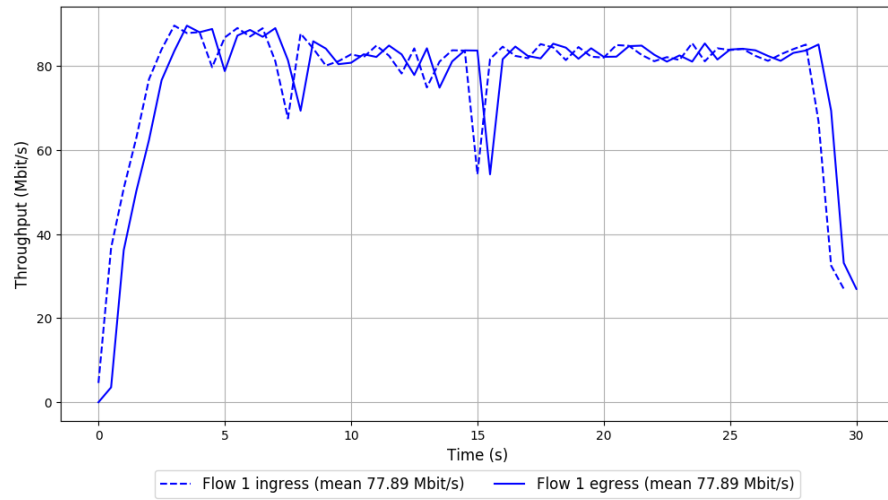
-- Flow 1:

Average throughput: 77.89 Mbit/s

95th percentile per-packet one-way delay: 18.896 ms

Loss rate: 0.00%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 09:33:17

End at: 2018-05-30 09:33:47

Local clock offset: 0.379 ms

Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.42 Mbit/s

95th percentile per-packet one-way delay: 18.780 ms

Loss rate: 0.00%

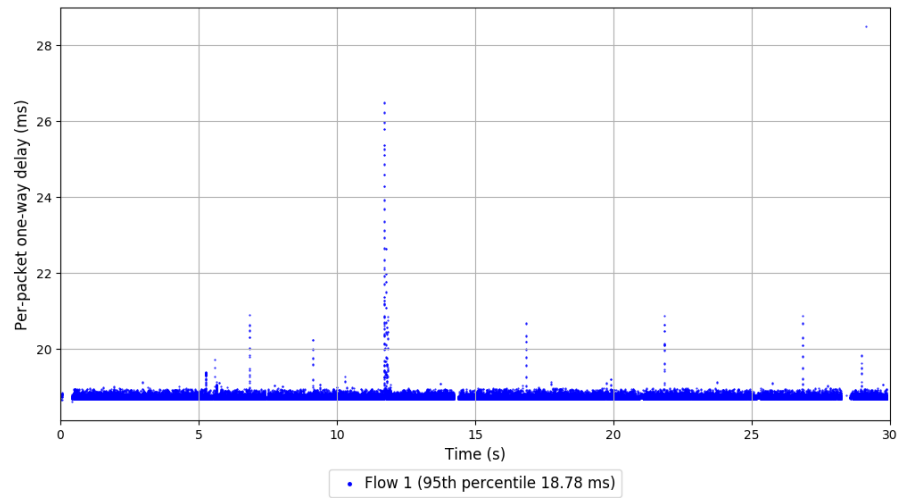
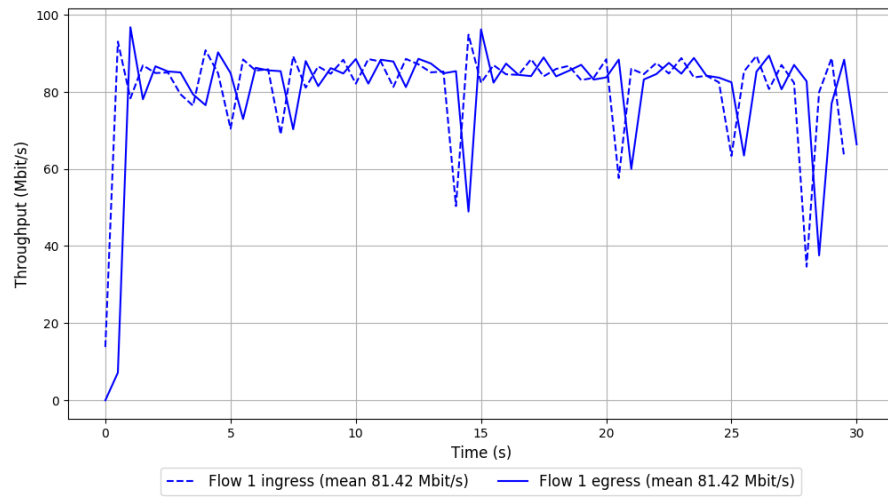
-- Flow 1:

Average throughput: 81.42 Mbit/s

95th percentile per-packet one-way delay: 18.780 ms

Loss rate: 0.00%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 09:57:25

End at: 2018-05-30 09:57:55

Local clock offset: 0.437 ms

Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 19.066 ms

Loss rate: 0.00%

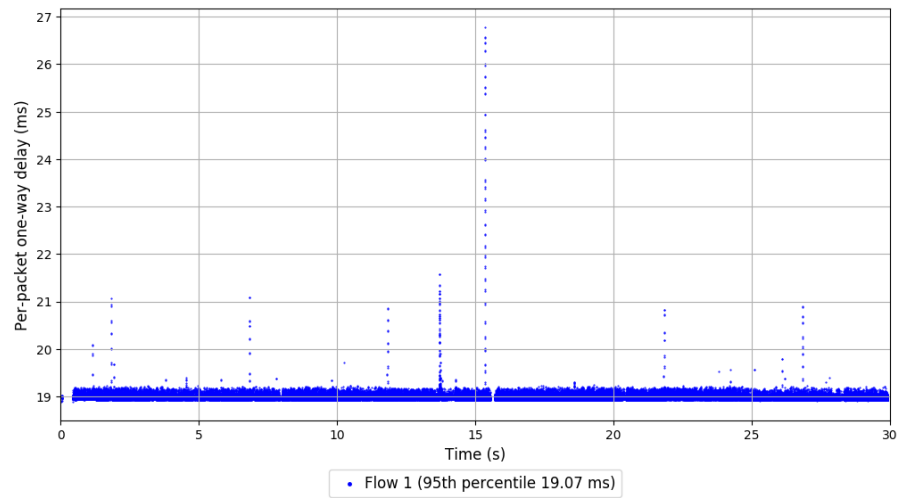
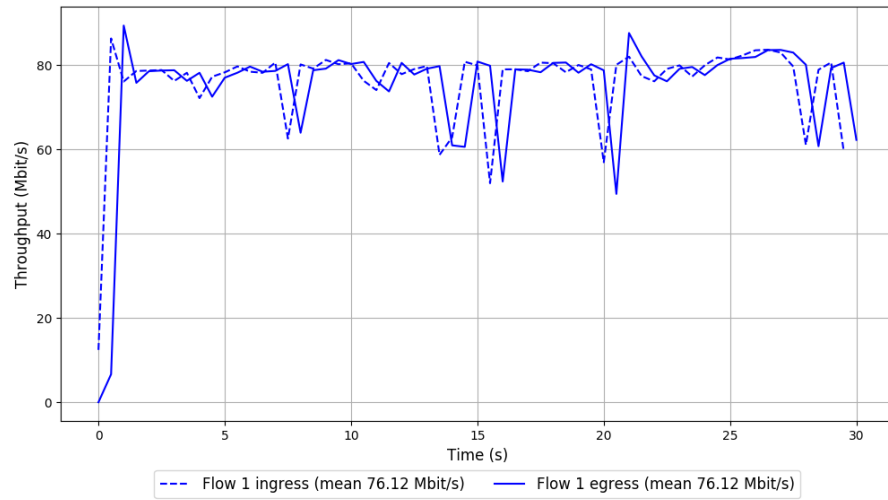
-- Flow 1:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 19.066 ms

Loss rate: 0.00%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 10:21:20

End at: 2018-05-30 10:21:50

Local clock offset: 0.509 ms

Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 17.293 ms

Loss rate: 0.00%

-- Flow 1:

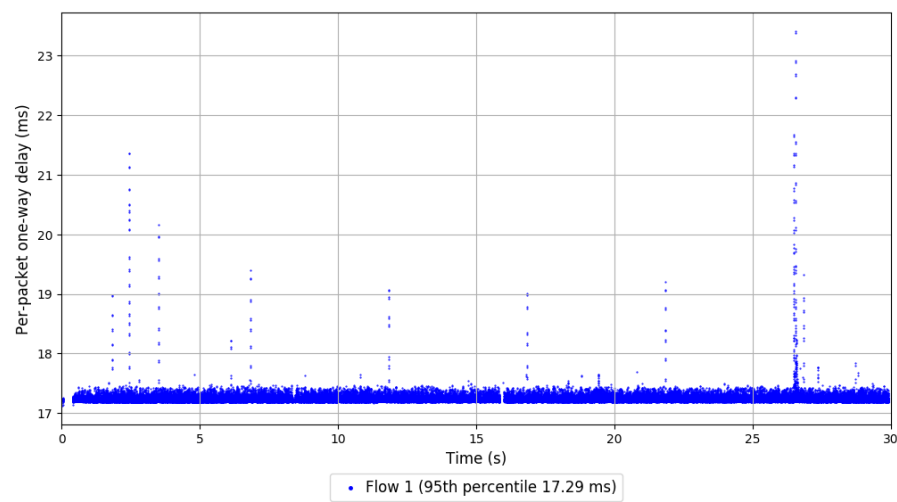
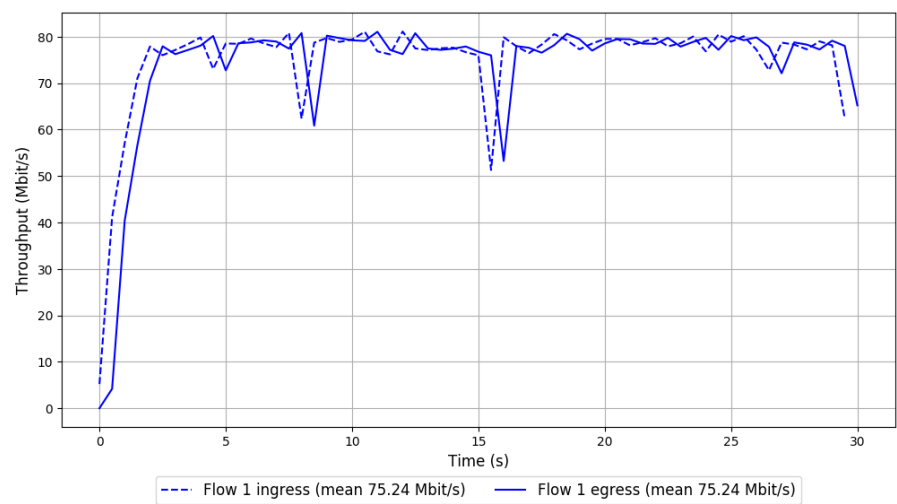
Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 17.293 ms

Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 10:45:22

End at: 2018-05-30 10:45:52

Local clock offset: 0.493 ms

Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 19.008 ms

Loss rate: 0.01%

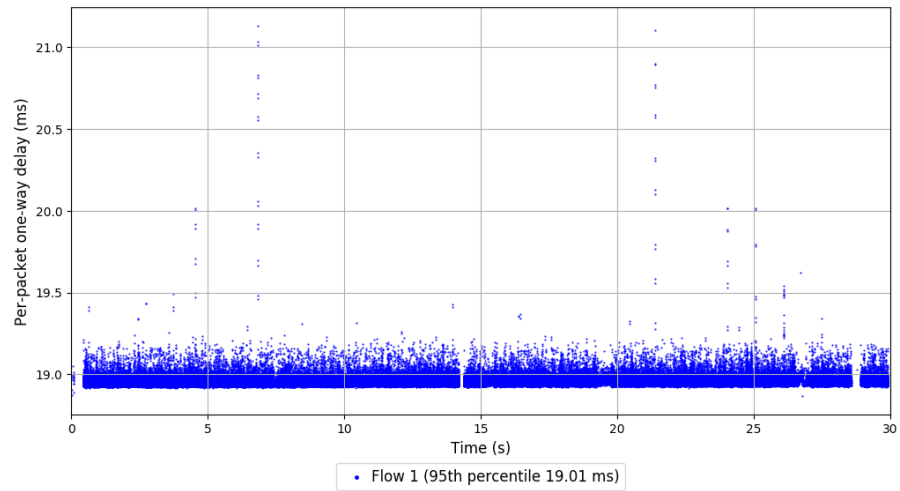
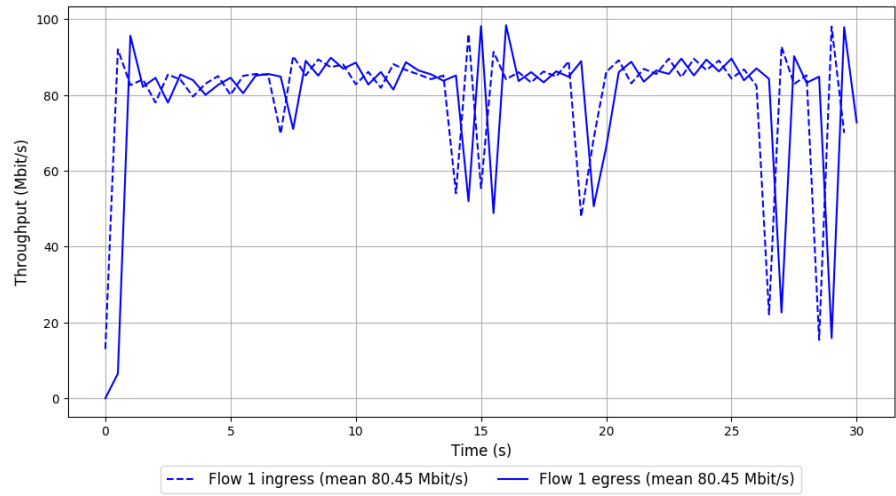
-- Flow 1:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 19.008 ms

Loss rate: 0.01%

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

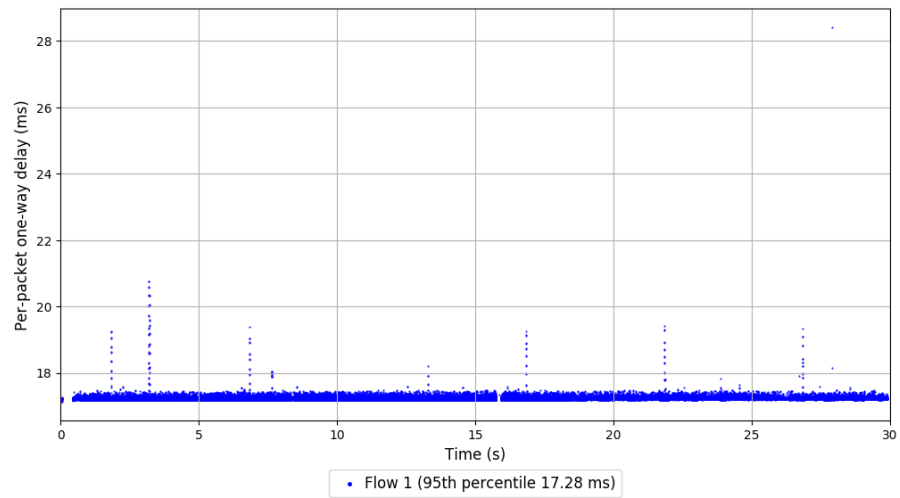
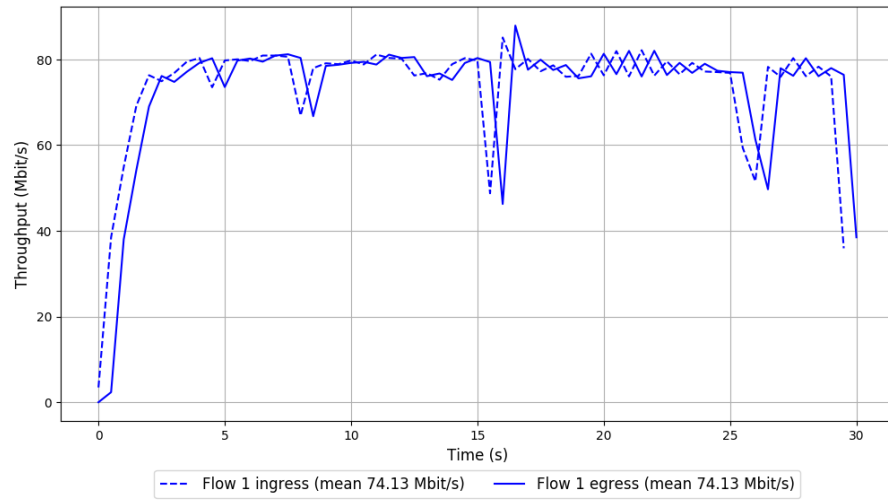


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 11:09:18  
End at: 2018-05-30 11:09:48  
Local clock offset: 0.511 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.13 Mbit/s  
95th percentile per-packet one-way delay: 17.280 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 74.13 Mbit/s  
95th percentile per-packet one-way delay: 17.280 ms  
Loss rate: 0.00%

### Run 7: Report of QUIC Cubic — Data Link

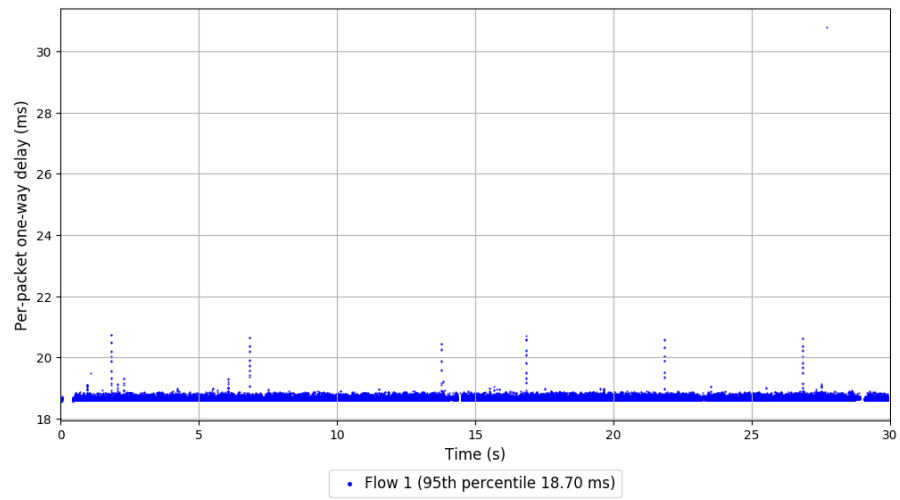
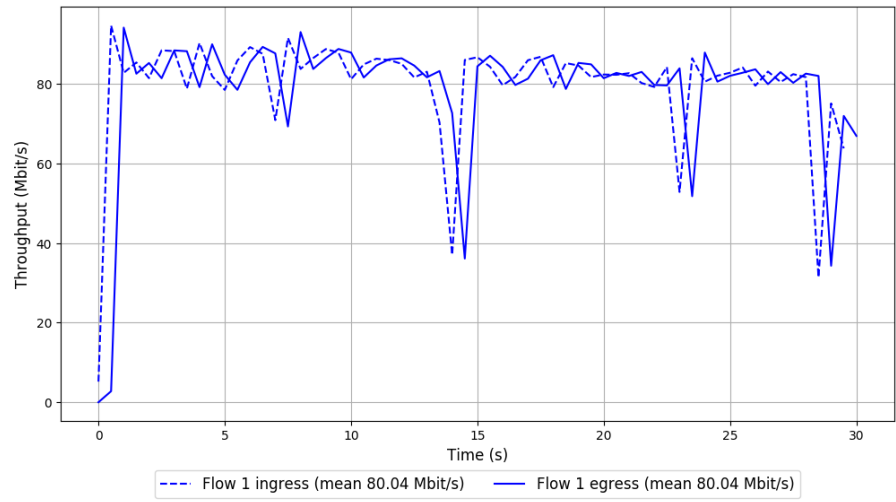


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 11:33:11  
End at: 2018-05-30 11:33:41  
Local clock offset: 0.482 ms  
Remote clock offset: -0.723 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.04 Mbit/s  
95th percentile per-packet one-way delay: 18.701 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 80.04 Mbit/s  
95th percentile per-packet one-way delay: 18.701 ms  
Loss rate: 0.00%

# Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 11:57:06

End at: 2018-05-30 11:57:36

Local clock offset: 0.358 ms

Remote clock offset: -1.037 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.53 Mbit/s

95th percentile per-packet one-way delay: 17.244 ms

Loss rate: 0.00%

-- Flow 1:

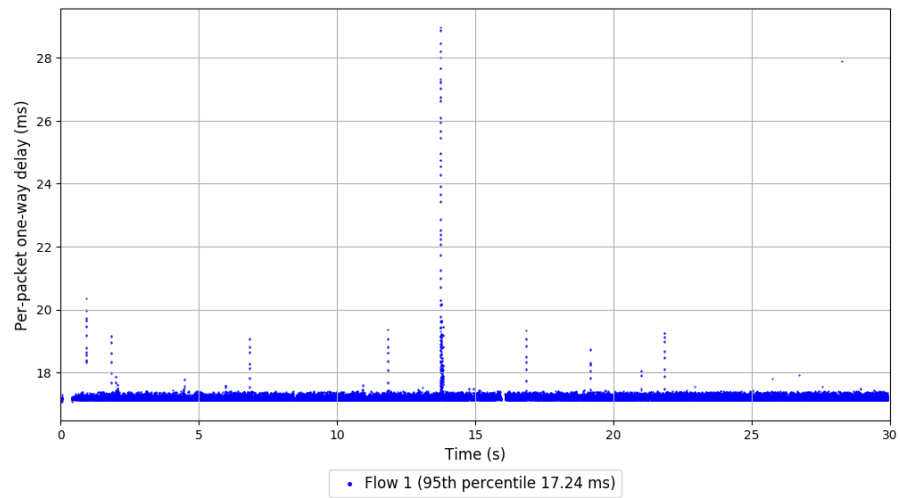
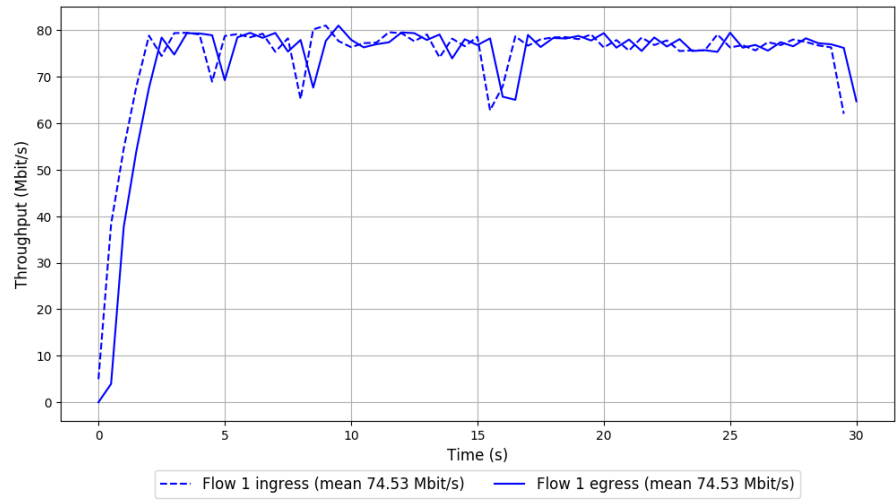
Average throughput: 74.53 Mbit/s

95th percentile per-packet one-way delay: 17.244 ms

Loss rate: 0.00%



### Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 12:21:03

End at: 2018-05-30 12:21:33

Local clock offset: 0.078 ms

Remote clock offset: -1.366 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 18.727 ms

Loss rate: 0.00%

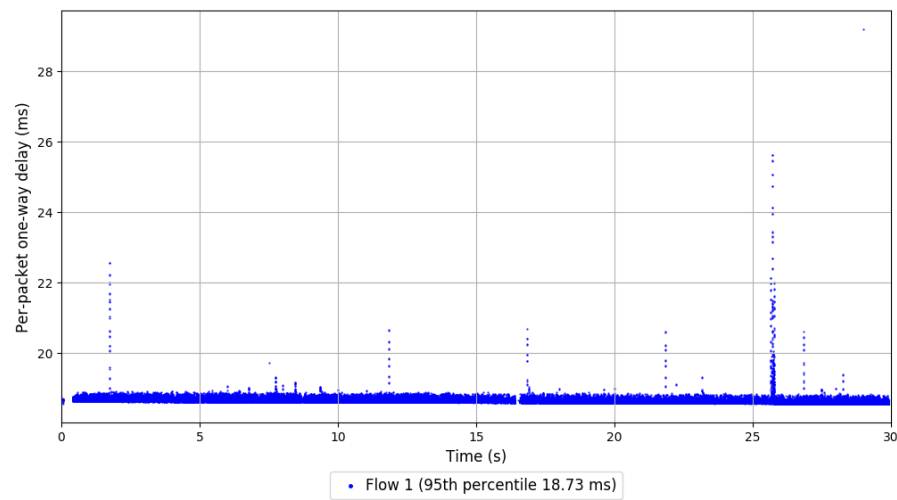
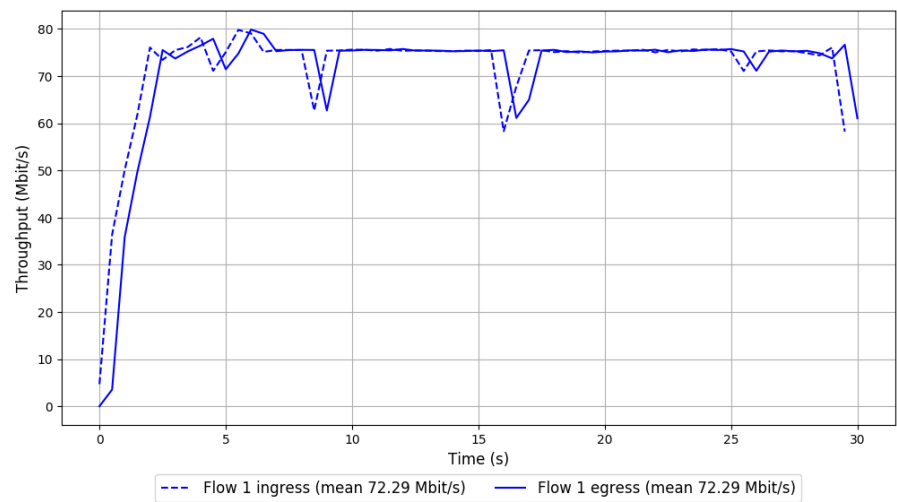
-- Flow 1:

Average throughput: 72.29 Mbit/s

95th percentile per-packet one-way delay: 18.727 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

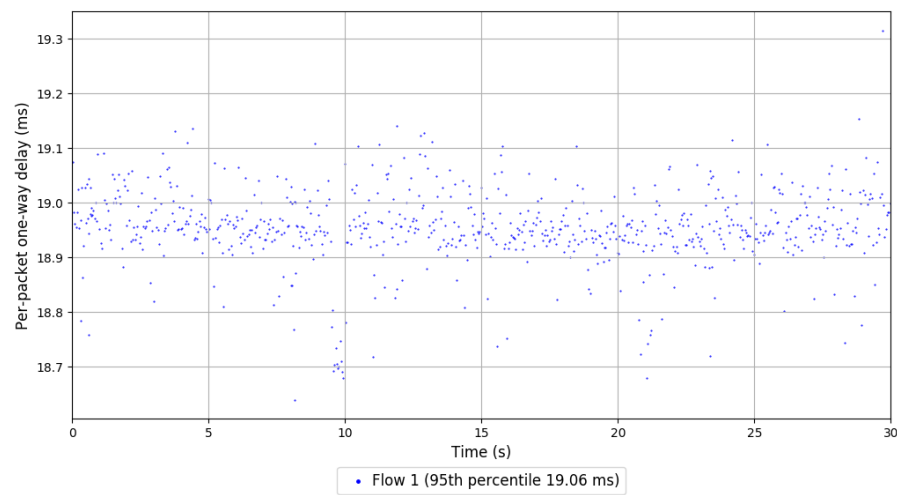
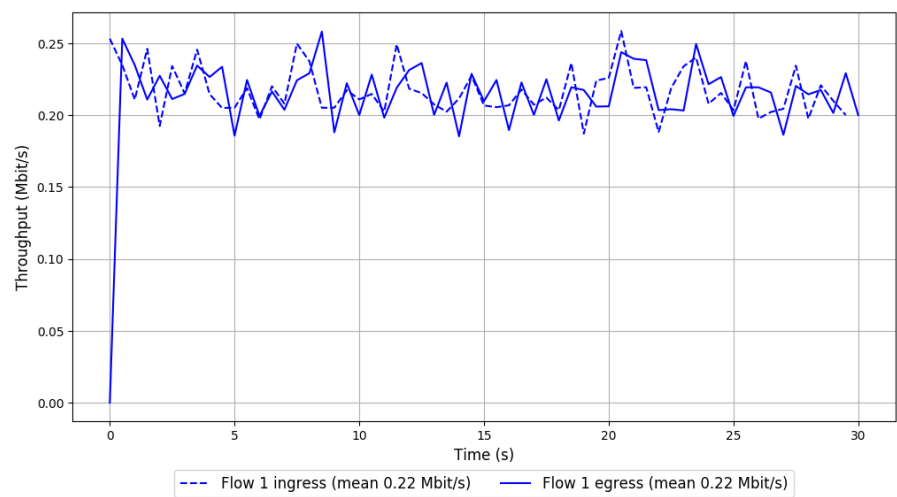


```
Run 1: Statistics of SCReAM

Start at: 2018-05-30 08:39:06
End at: 2018-05-30 08:39:36
Local clock offset: 0.262 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-30 13:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.062 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.062 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-30 09:03:08

End at: 2018-05-30 09:03:38

Local clock offset: 0.226 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.431 ms

Loss rate: 0.00%

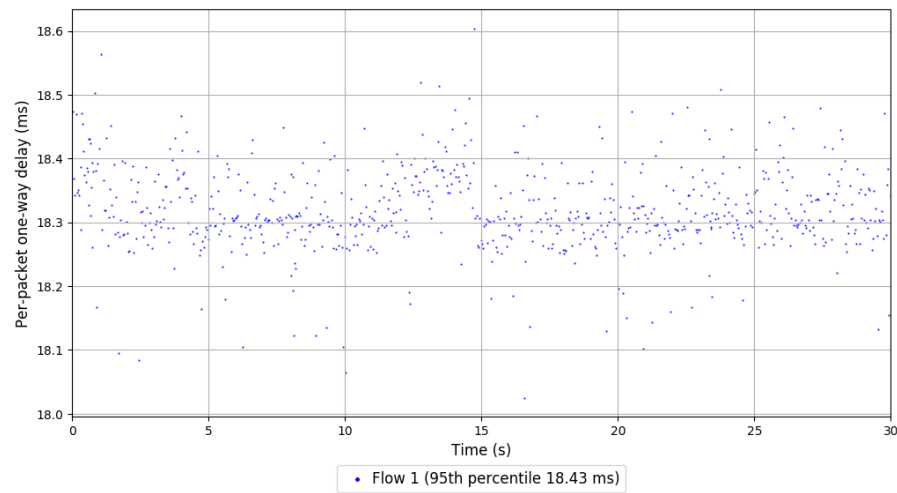
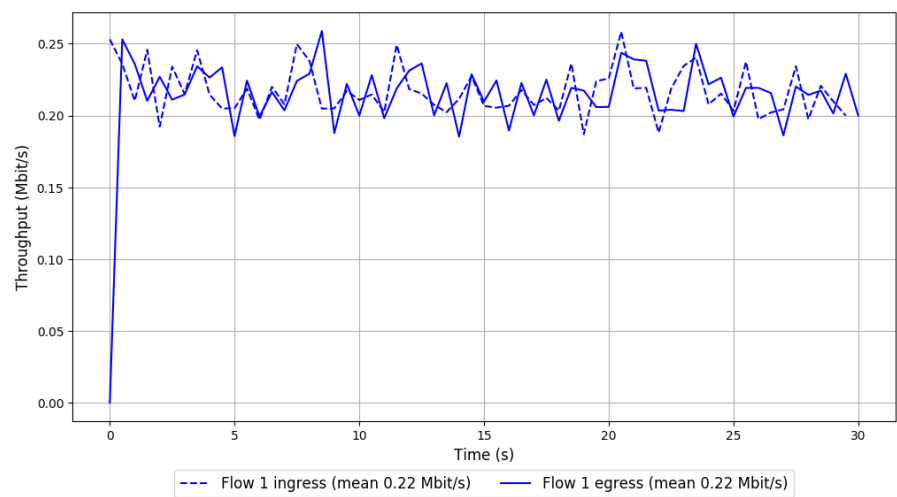
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.431 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-30 09:27:12

End at: 2018-05-30 09:27:42

Local clock offset: 0.296 ms

Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.095 ms

Loss rate: 0.00%

-- Flow 1:

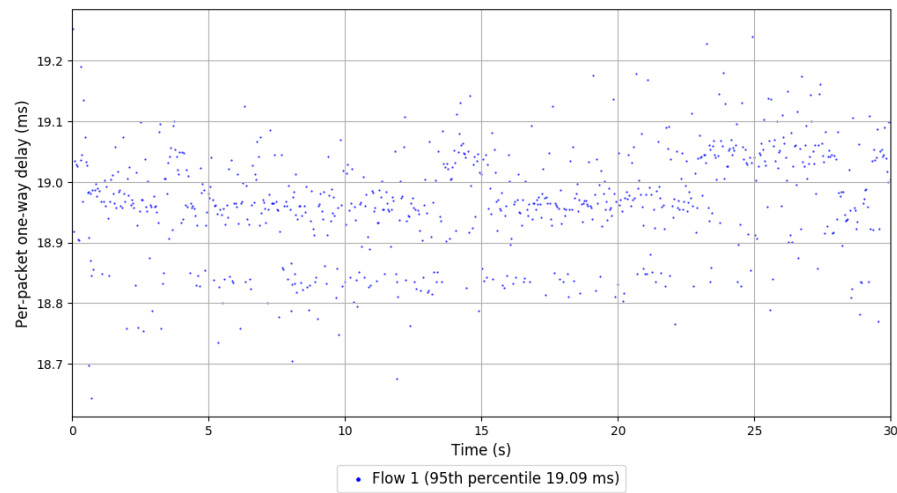
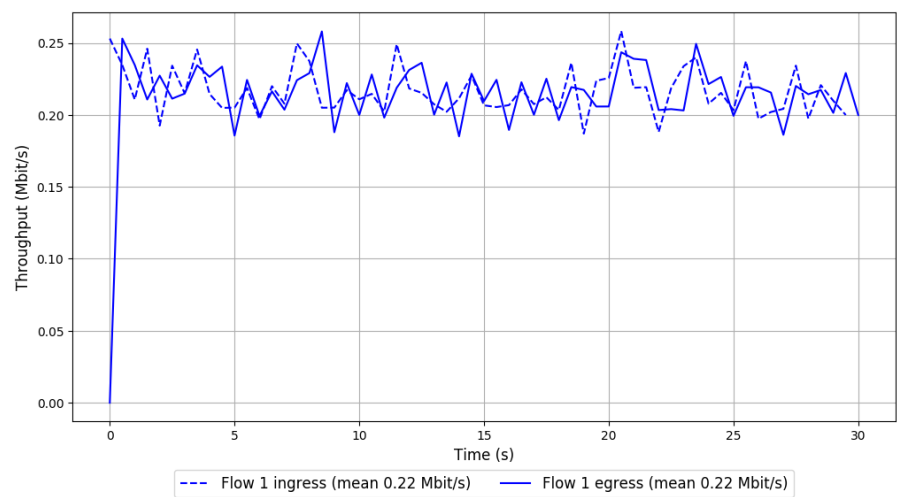
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.095 ms

Loss rate: 0.00%



Run 3: Report of SReAM — Data Link

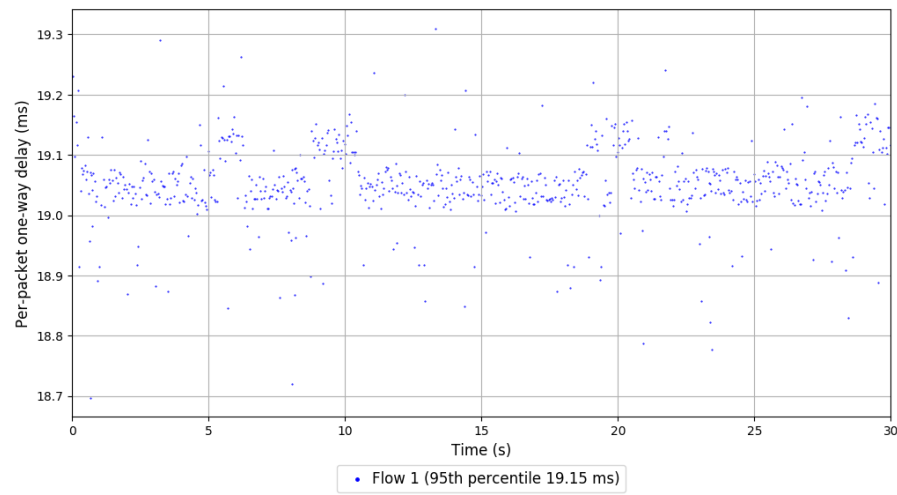
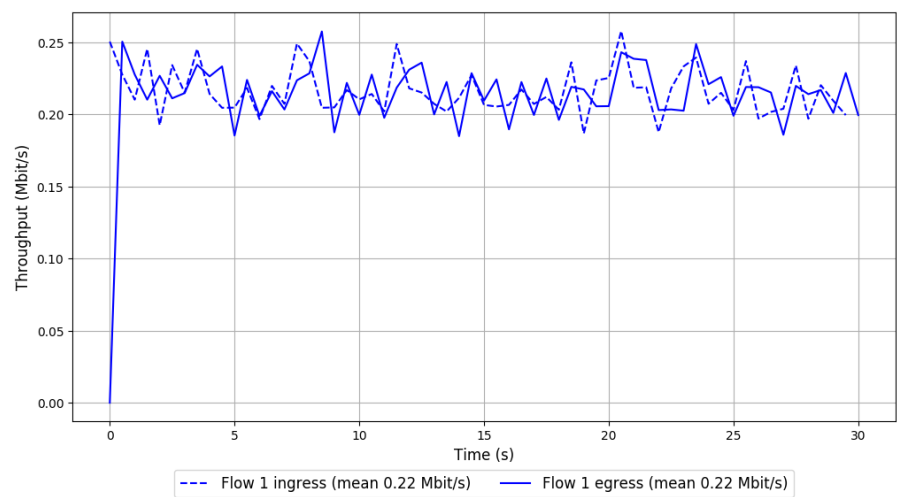


Run 4: Statistics of SCReAM

Start at: 2018-05-30 09:51:27  
End at: 2018-05-30 09:51:57  
Local clock offset: 0.567 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.150 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.150 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

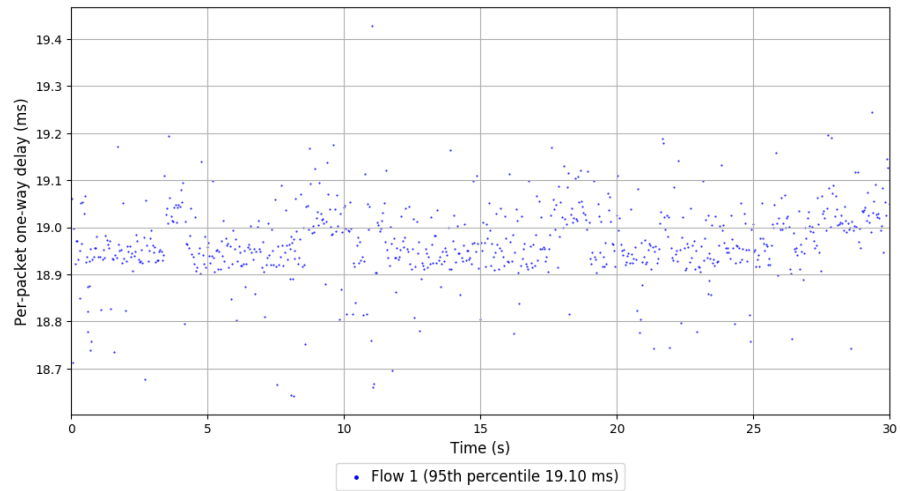
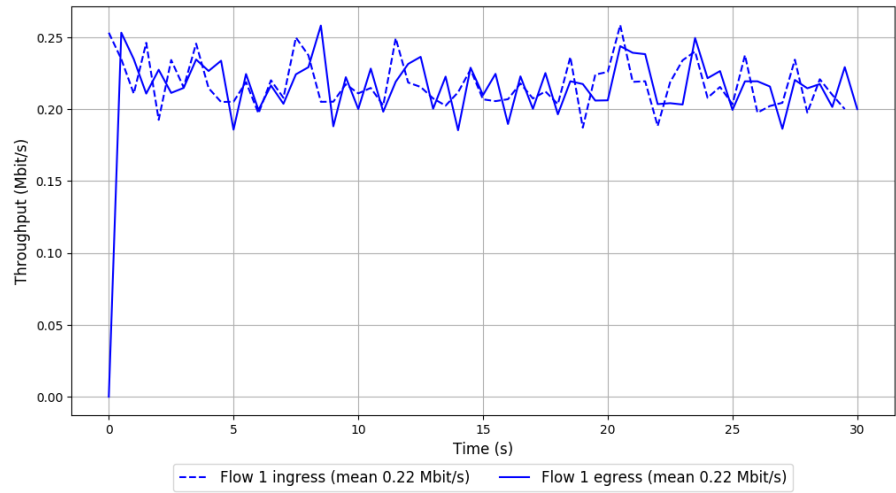


Run 5: Statistics of SCReAM

Start at: 2018-05-30 10:15:17  
End at: 2018-05-30 10:15:47  
Local clock offset: 0.488 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.098 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.098 ms  
Loss rate: 0.00%

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

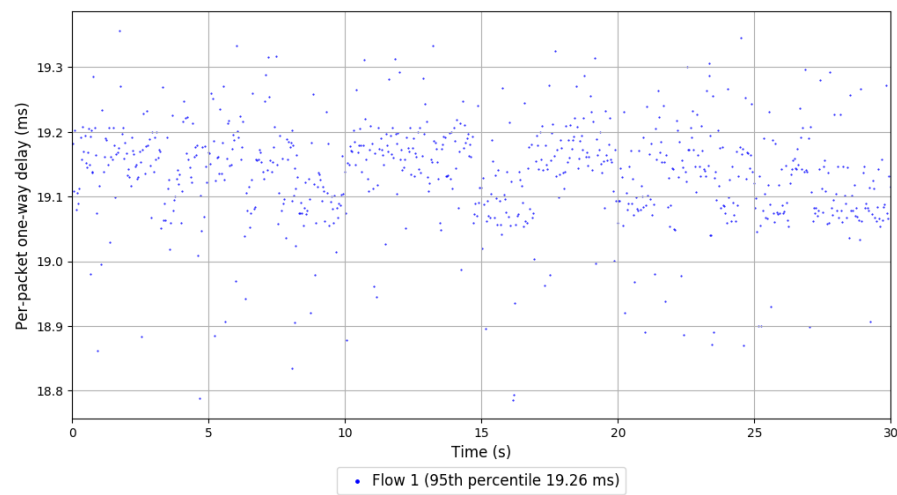
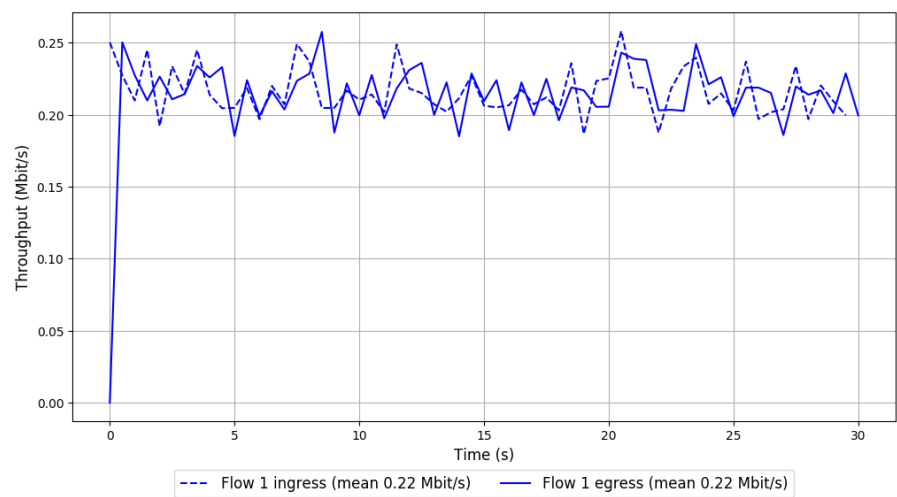


Run 6: Statistics of SCReAM

Start at: 2018-05-30 10:39:22  
End at: 2018-05-30 10:39:52  
Local clock offset: 0.449 ms  
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.256 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 19.256 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



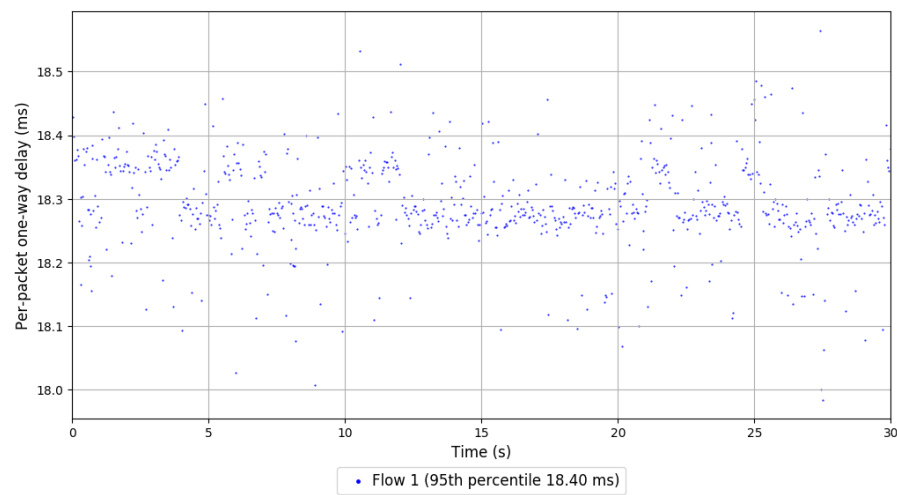
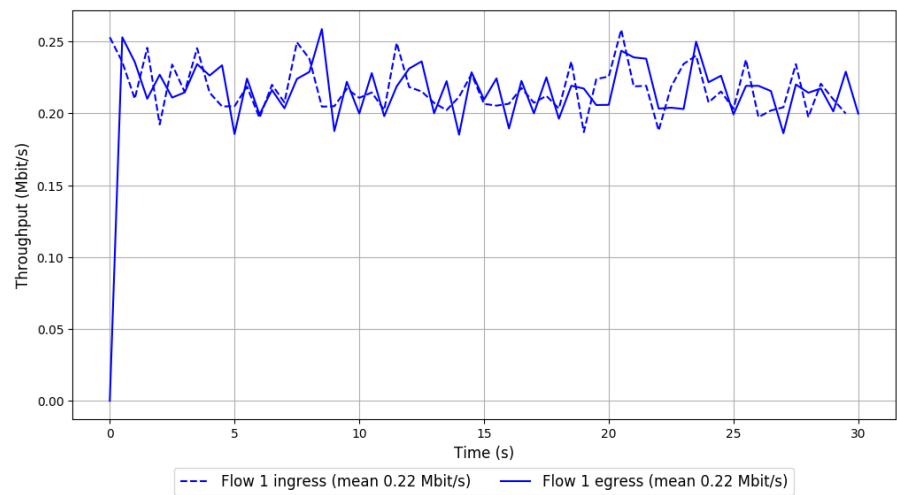
Run 7: Statistics of SCReAM

Start at: 2018-05-30 11:03:19  
End at: 2018-05-30 11:03:49  
Local clock offset: 0.516 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.402 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.402 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

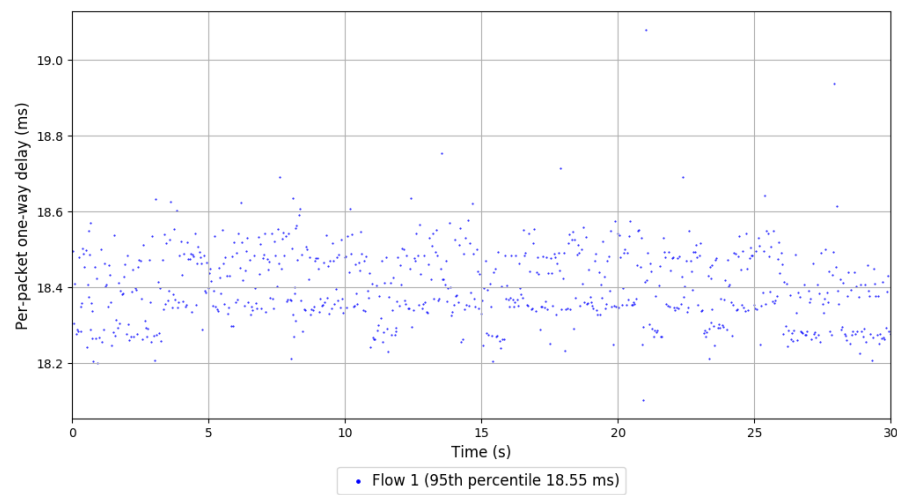
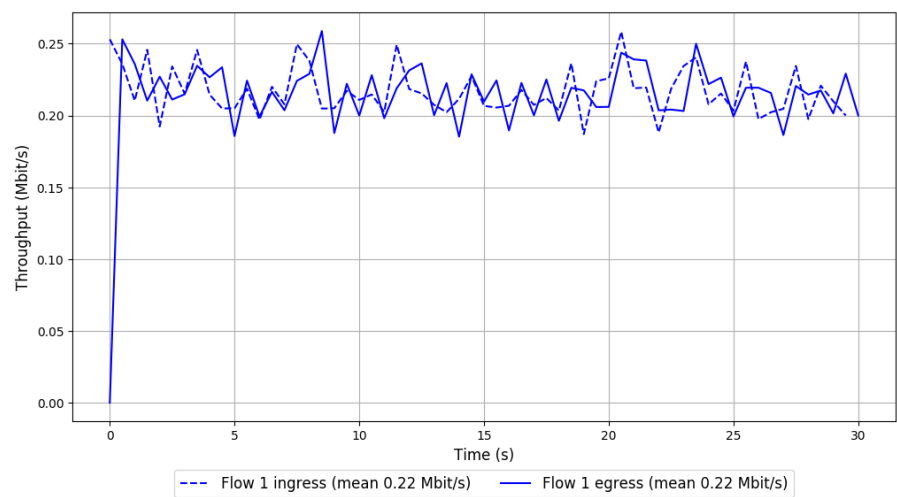


Run 8: Statistics of SCReAM

Start at: 2018-05-30 11:27:12  
End at: 2018-05-30 11:27:42  
Local clock offset: 0.411 ms  
Remote clock offset: -0.575 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.548 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.548 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

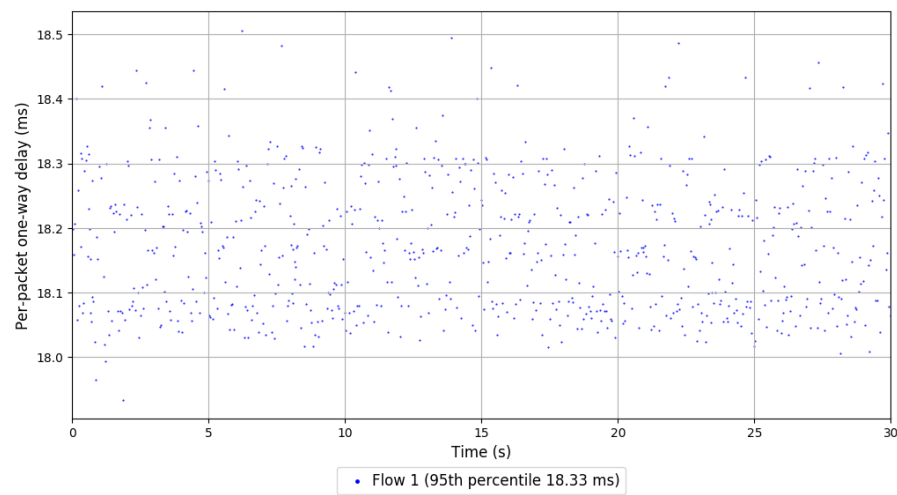
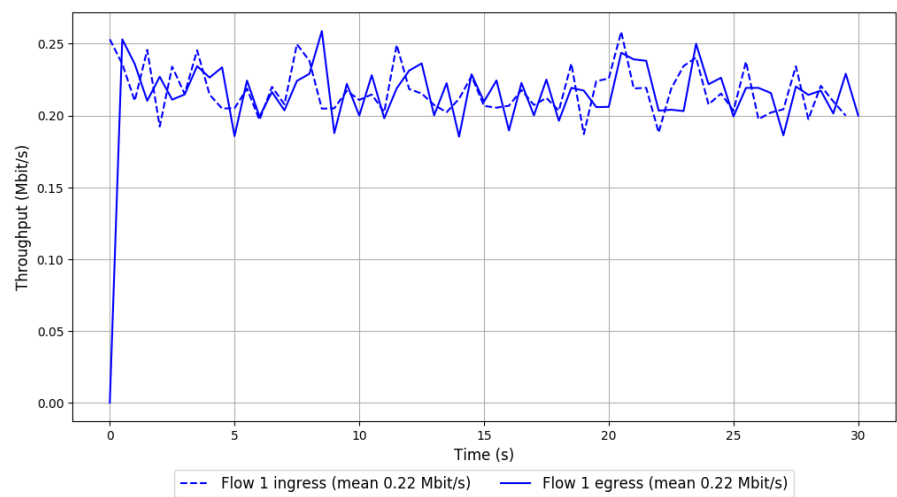


Run 9: Statistics of SCReAM

Start at: 2018-05-30 11:51:07  
End at: 2018-05-30 11:51:37  
Local clock offset: 0.501 ms  
Remote clock offset: -0.933 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.333 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.333 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

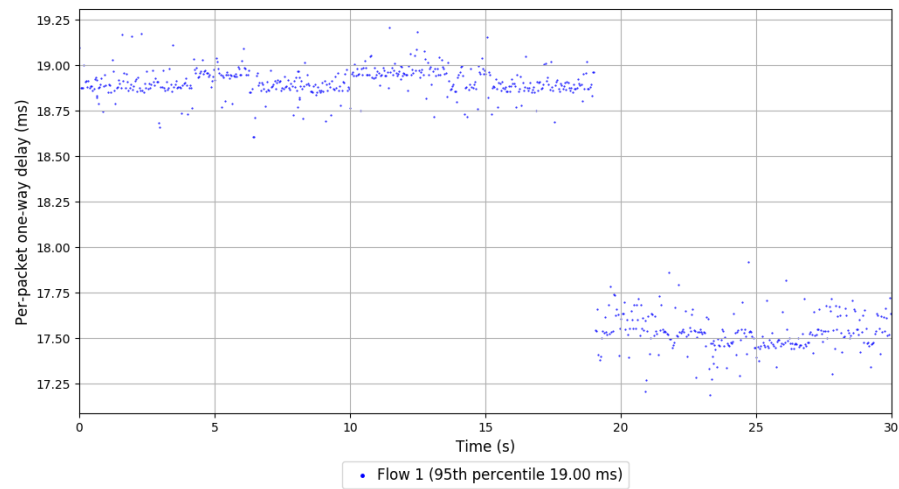
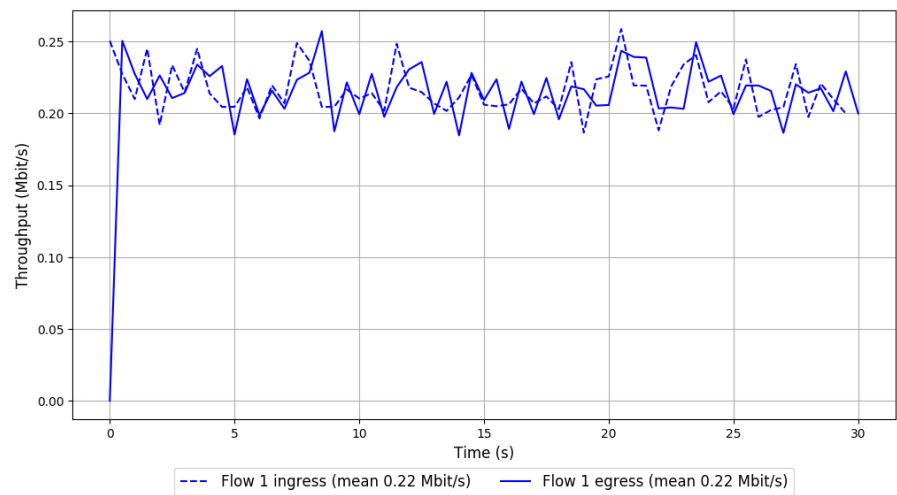


Run 10: Statistics of SCReAM

Start at: 2018-05-30 12:15:04  
End at: 2018-05-30 12:15:34  
Local clock offset: 0.12 ms  
Remote clock offset: -1.353 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.996 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 18.996 ms  
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



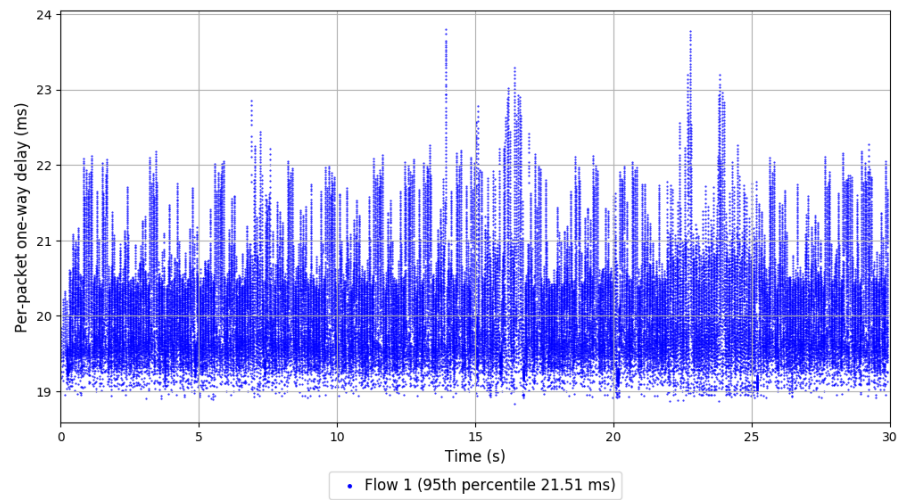
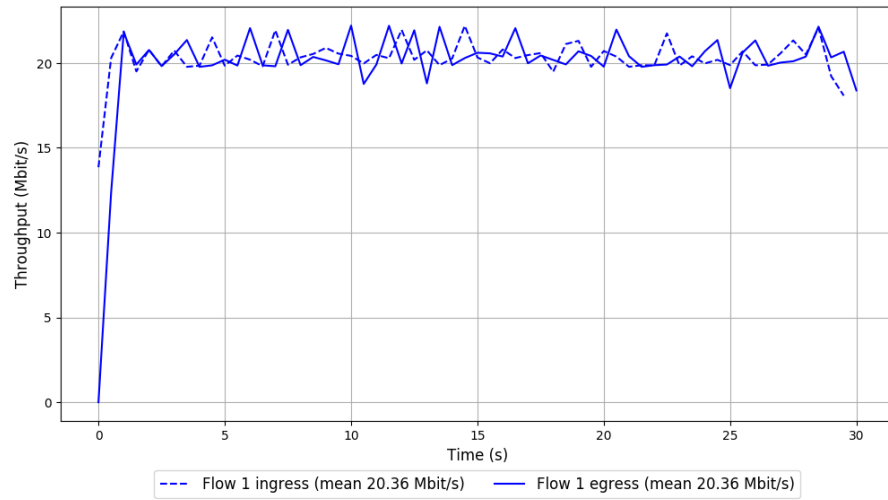
Run 1: Statistics of Sprout

Start at: 2018-05-30 08:25:39  
End at: 2018-05-30 08:26:09  
Local clock offset: 0.146 ms  
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.36 Mbit/s  
95th percentile per-packet one-way delay: 21.514 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.36 Mbit/s  
95th percentile per-packet one-way delay: 21.514 ms  
Loss rate: 0.00%



# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-30 08:49:40

End at: 2018-05-30 08:50:10

Local clock offset: 0.349 ms

Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.82 Mbit/s

95th percentile per-packet one-way delay: 20.374 ms

Loss rate: 0.00%

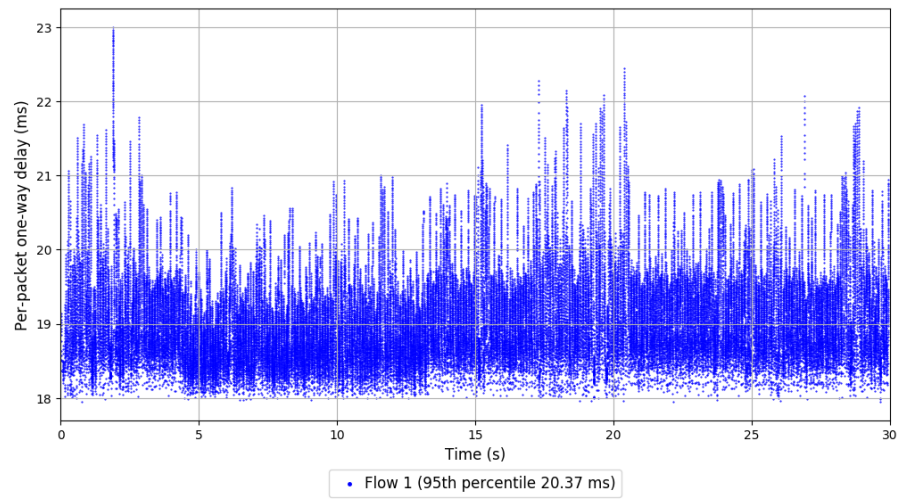
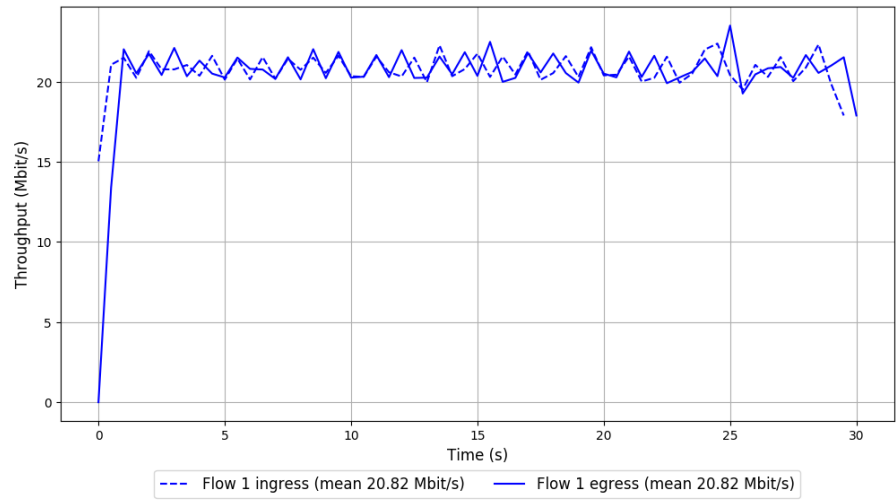
-- Flow 1:

Average throughput: 20.82 Mbit/s

95th percentile per-packet one-way delay: 20.374 ms

Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link

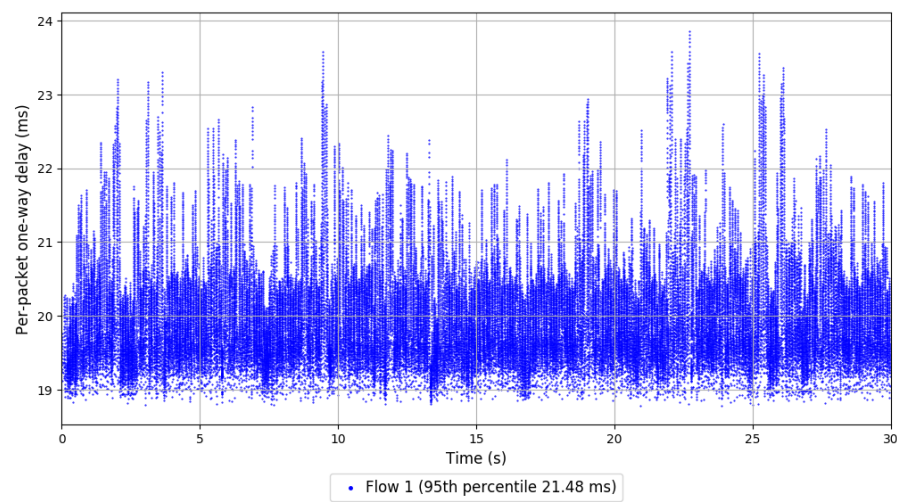
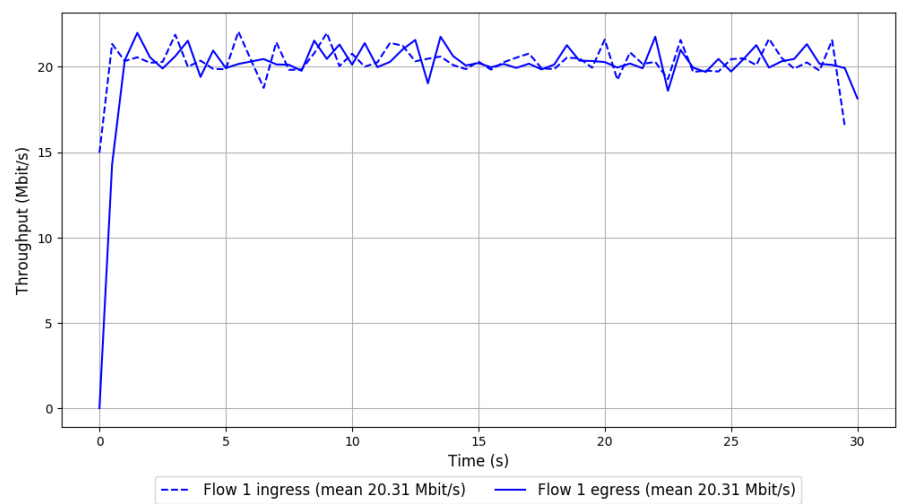


Run 3: Statistics of Sprout

Start at: 2018-05-30 09:13:46  
End at: 2018-05-30 09:14:16  
Local clock offset: 0.113 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.31 Mbit/s  
95th percentile per-packet one-way delay: 21.479 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.31 Mbit/s  
95th percentile per-packet one-way delay: 21.479 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

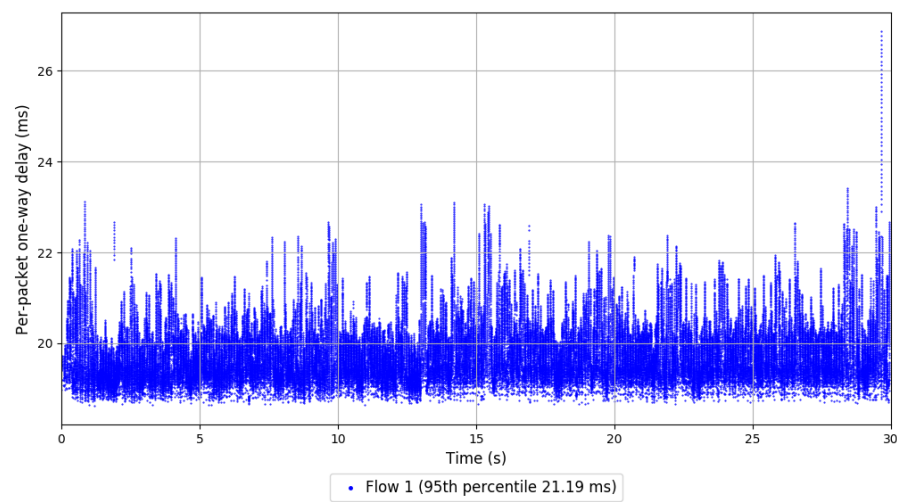
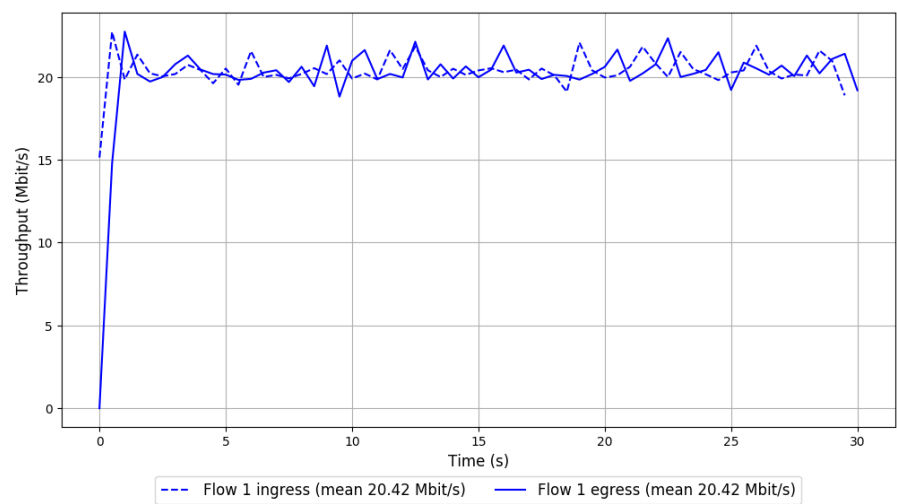


Run 4: Statistics of Sprout

Start at: 2018-05-30 09:37:53  
End at: 2018-05-30 09:38:23  
Local clock offset: 0.445 ms  
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.42 Mbit/s  
95th percentile per-packet one-way delay: 21.194 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.42 Mbit/s  
95th percentile per-packet one-way delay: 21.194 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



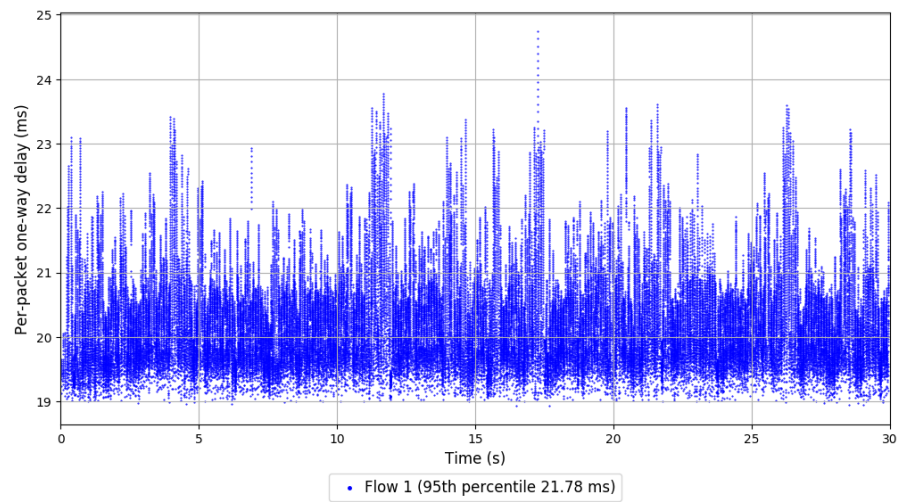
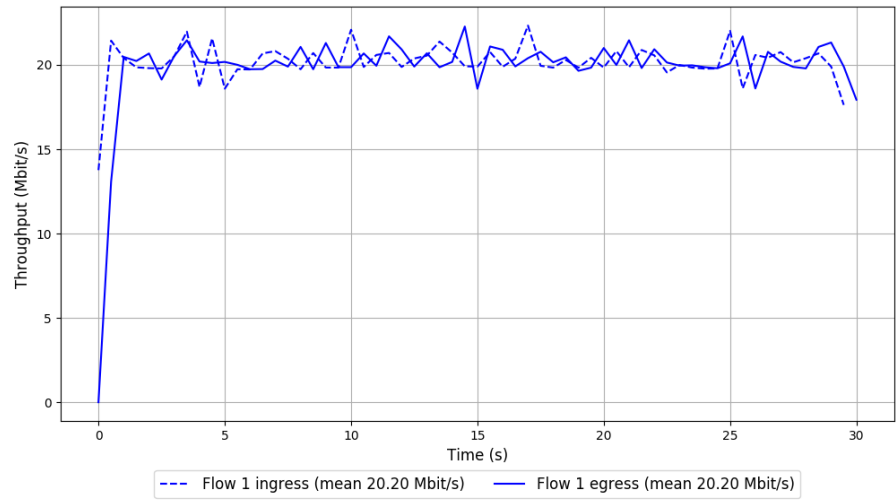
Run 5: Statistics of Sprout

Start at: 2018-05-30 10:02:00  
End at: 2018-05-30 10:02:30  
Local clock offset: 0.372 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.20 Mbit/s  
95th percentile per-packet one-way delay: 21.779 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.20 Mbit/s  
95th percentile per-packet one-way delay: 21.779 ms  
Loss rate: 0.00%



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



Run 6: Statistics of Sprout

Start at: 2018-05-30 10:25:57

End at: 2018-05-30 10:26:27

Local clock offset: 0.404 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.39 Mbit/s

95th percentile per-packet one-way delay: 21.249 ms

Loss rate: 0.00%

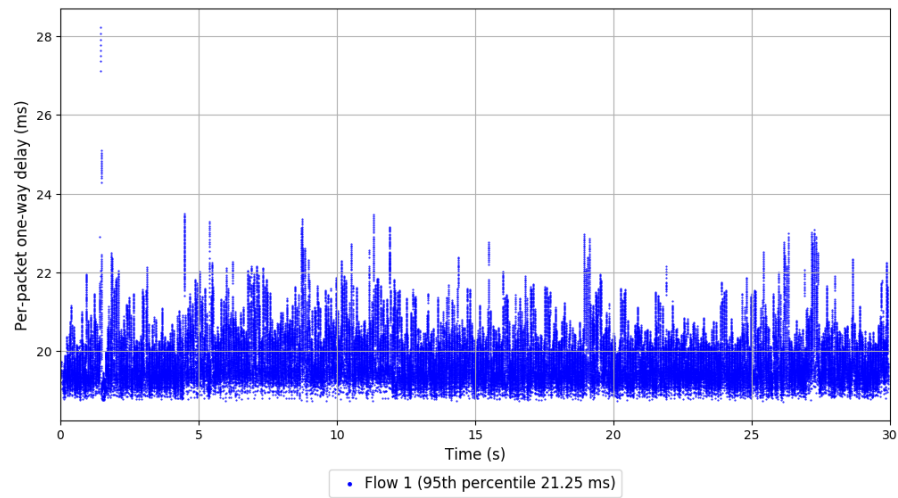
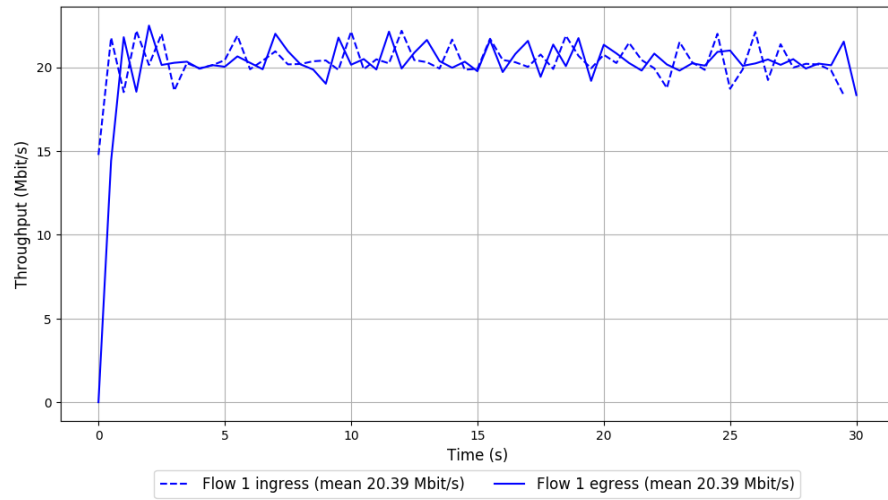
-- Flow 1:

Average throughput: 20.39 Mbit/s

95th percentile per-packet one-way delay: 21.249 ms

Loss rate: 0.00%

## Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-30 10:49:57

End at: 2018-05-30 10:50:27

Local clock offset: 0.607 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-05-30 13:56:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.30 Mbit/s

95th percentile per-packet one-way delay: 21.239 ms

Loss rate: 0.00%

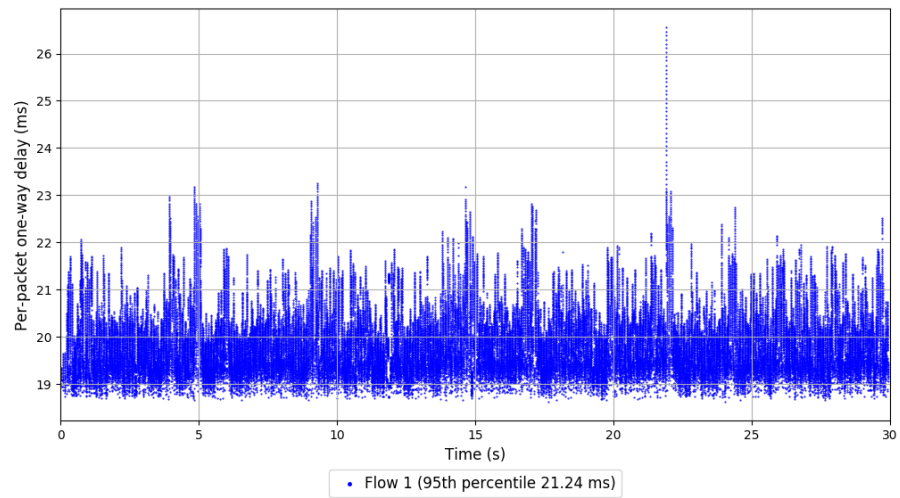
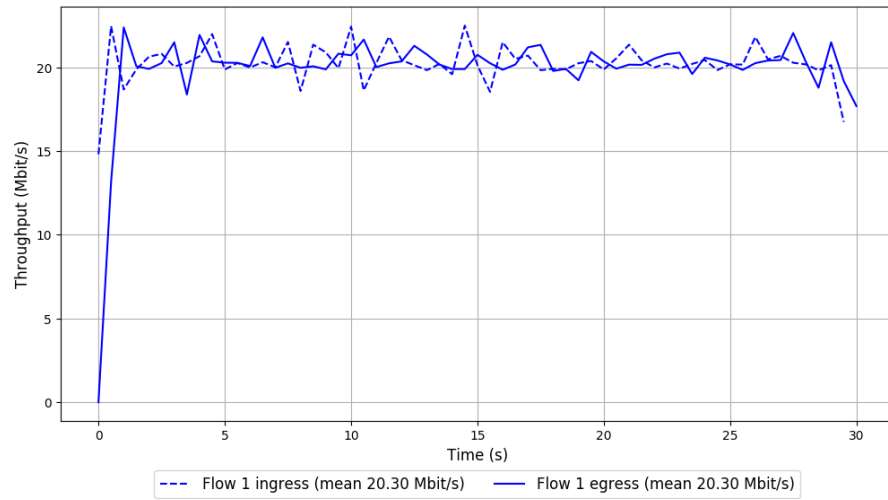
-- Flow 1:

Average throughput: 20.30 Mbit/s

95th percentile per-packet one-way delay: 21.239 ms

Loss rate: 0.00%

## Run 7: Report of Sprout — Data Link

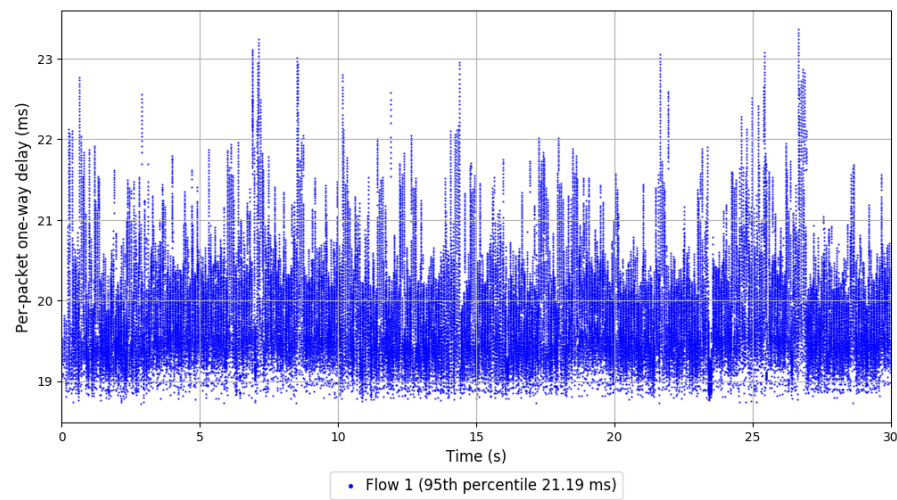
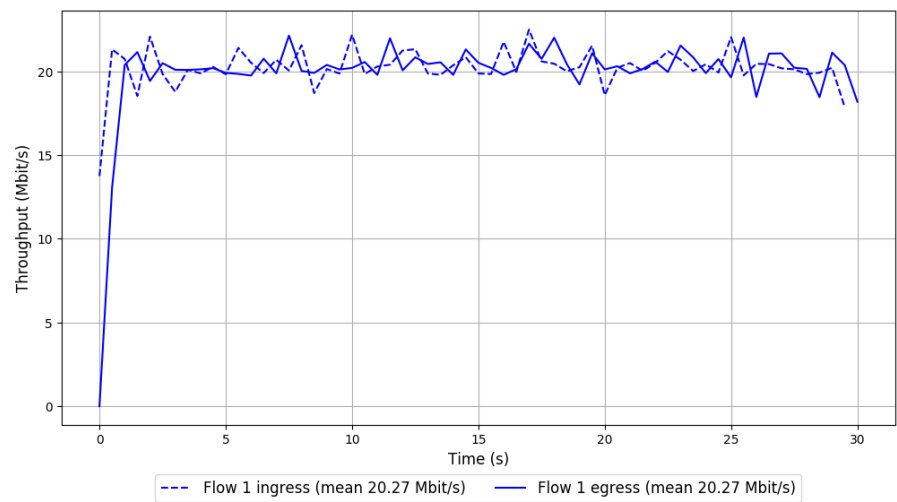


Run 8: Statistics of Sprout

Start at: 2018-05-30 11:13:53  
End at: 2018-05-30 11:14:23  
Local clock offset: 0.423 ms  
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.27 Mbit/s  
95th percentile per-packet one-way delay: 21.192 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.27 Mbit/s  
95th percentile per-packet one-way delay: 21.192 ms  
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



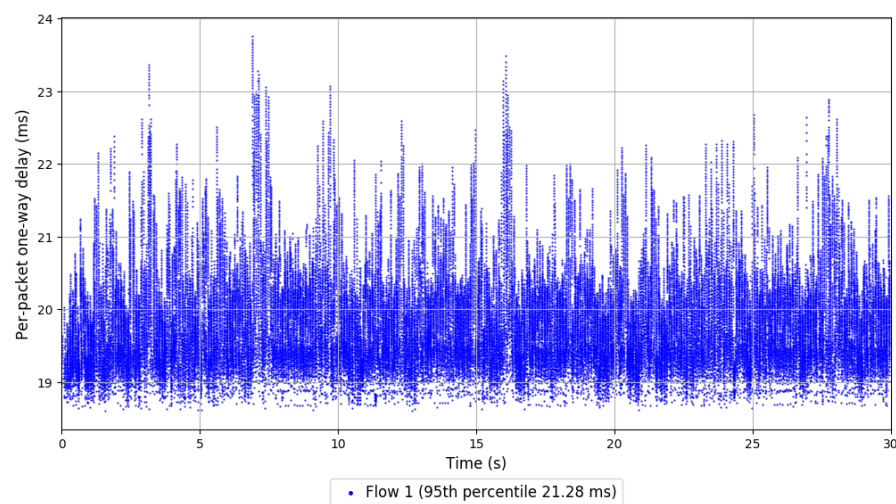
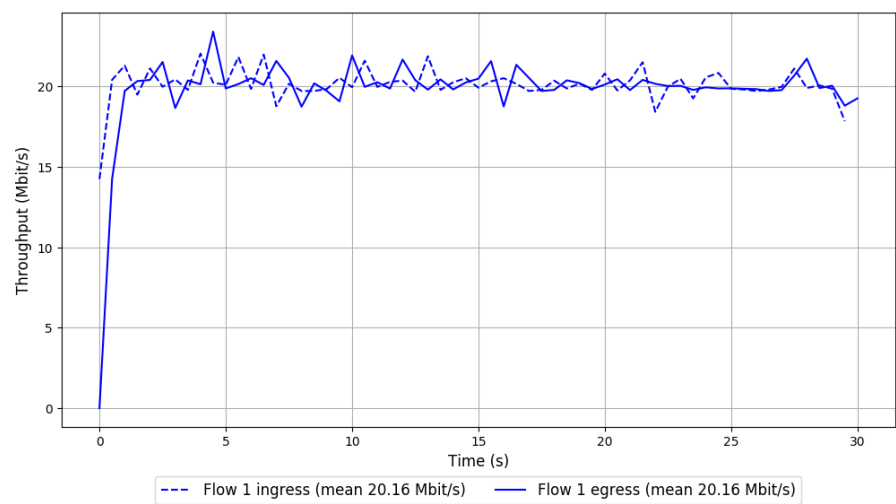
Run 9: Statistics of Sprout

Start at: 2018-05-30 11:37:48  
End at: 2018-05-30 11:38:18  
Local clock offset: 0.47 ms  
Remote clock offset: -0.791 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.16 Mbit/s  
95th percentile per-packet one-way delay: 21.280 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.16 Mbit/s  
95th percentile per-packet one-way delay: 21.280 ms  
Loss rate: 0.00%



Run 9: Report of Sprout — Data Link

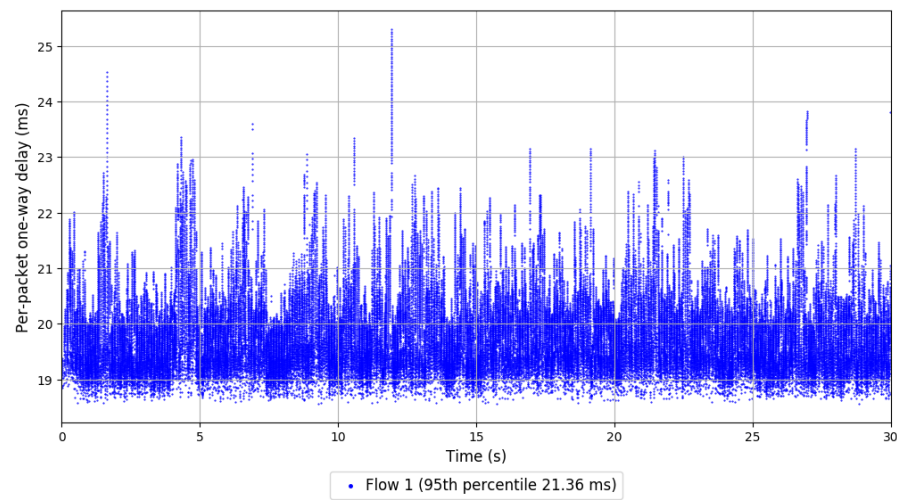
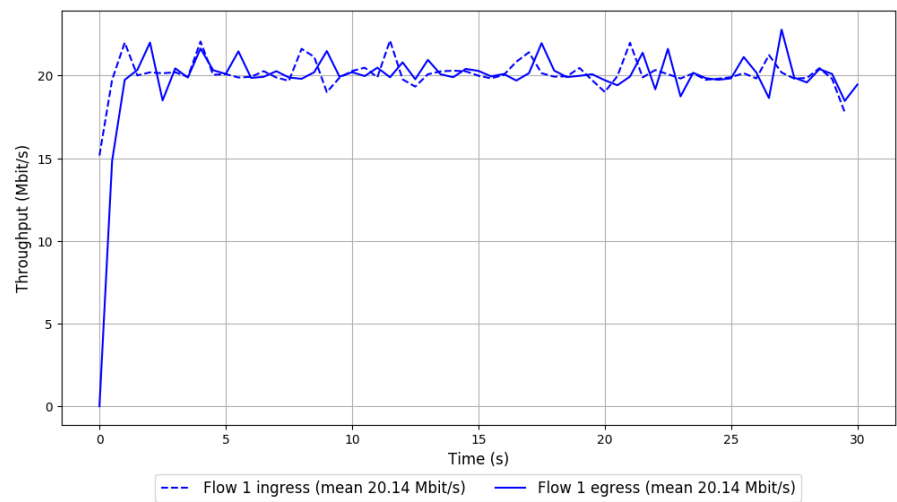


Run 10: Statistics of Sprout

Start at: 2018-05-30 12:01:40  
End at: 2018-05-30 12:02:10  
Local clock offset: 0.28 ms  
Remote clock offset: -1.116 ms

# Below is generated by plot.py at 2018-05-30 13:56:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.14 Mbit/s  
95th percentile per-packet one-way delay: 21.365 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.14 Mbit/s  
95th percentile per-packet one-way delay: 21.365 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 08:28:35

End at: 2018-05-30 08:29:05

Local clock offset: 0.108 ms

Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-05-30 13:58:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 250.78 Mbit/s

95th percentile per-packet one-way delay: 19.126 ms

Loss rate: 0.00%

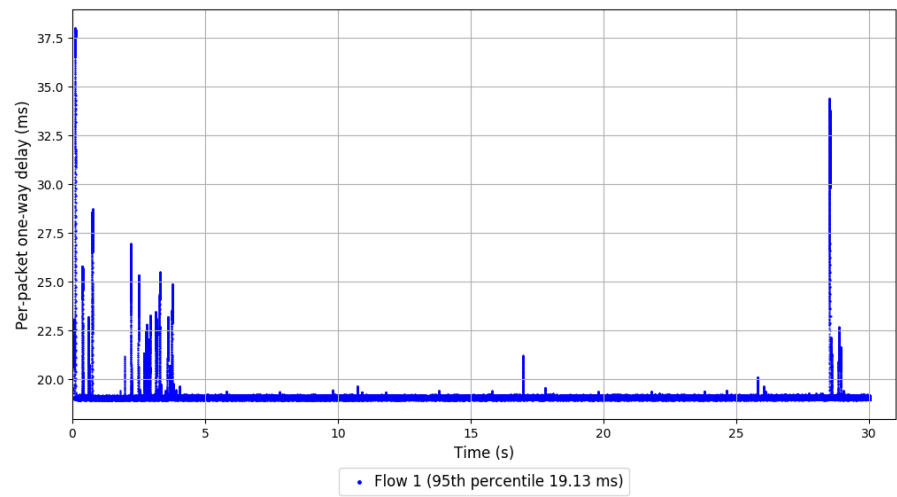
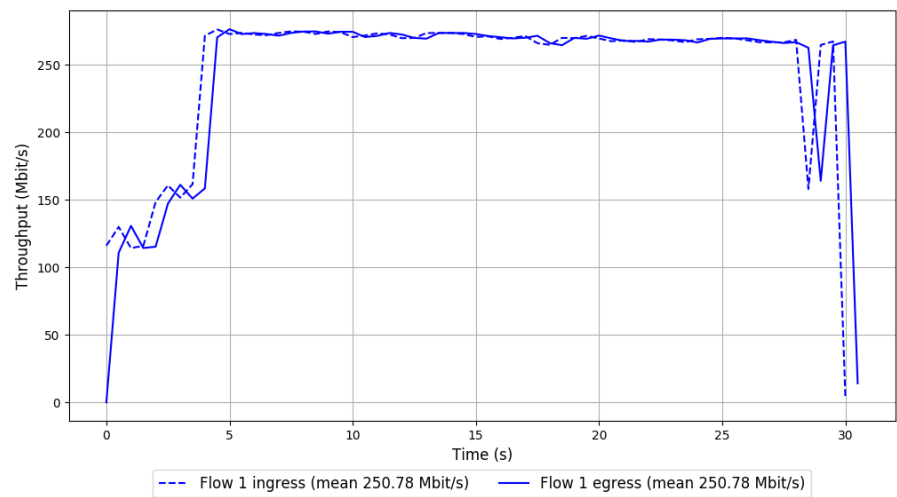
-- Flow 1:

Average throughput: 250.78 Mbit/s

95th percentile per-packet one-way delay: 19.126 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-30 08:52:35

End at: 2018-05-30 08:53:06

Local clock offset: 0.365 ms

Remote clock offset: 0.296 ms

# Below is generated by plot.py at 2018-05-30 13:58:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.69 Mbit/s

95th percentile per-packet one-way delay: 19.083 ms

Loss rate: 0.00%

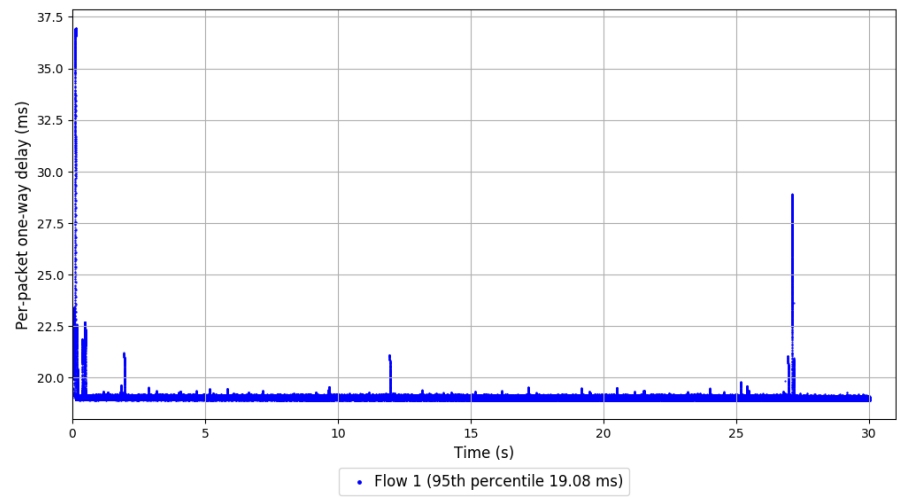
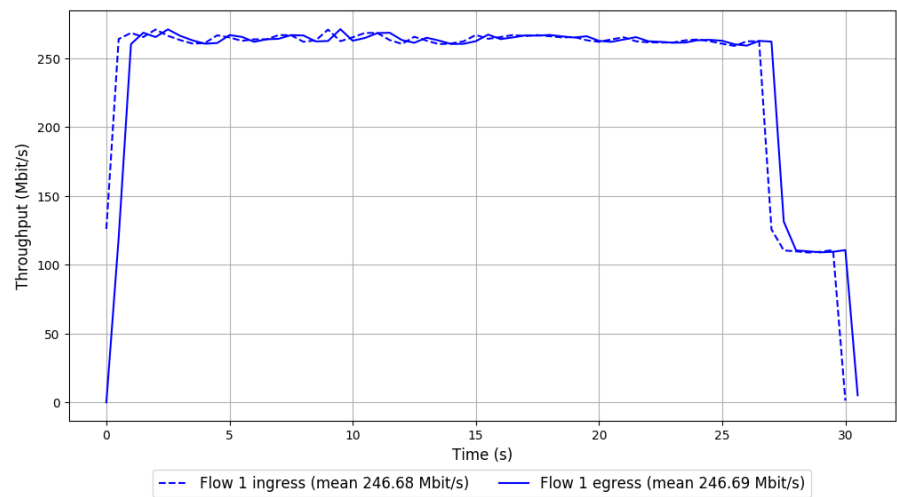
-- Flow 1:

Average throughput: 246.69 Mbit/s

95th percentile per-packet one-way delay: 19.083 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-30 09:16:42

End at: 2018-05-30 09:17:12

Local clock offset: 0.2 ms

Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2018-05-30 13:58:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.47 Mbit/s

95th percentile per-packet one-way delay: 19.023 ms

Loss rate: 0.00%

-- Flow 1:

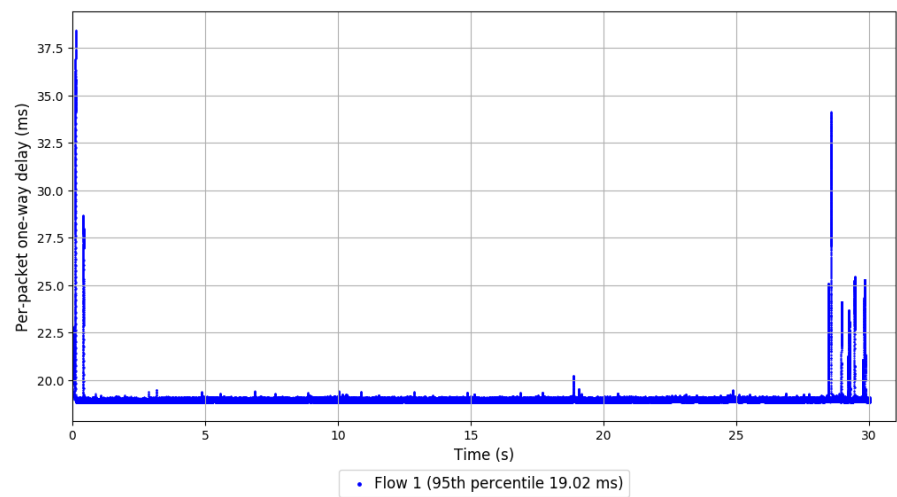
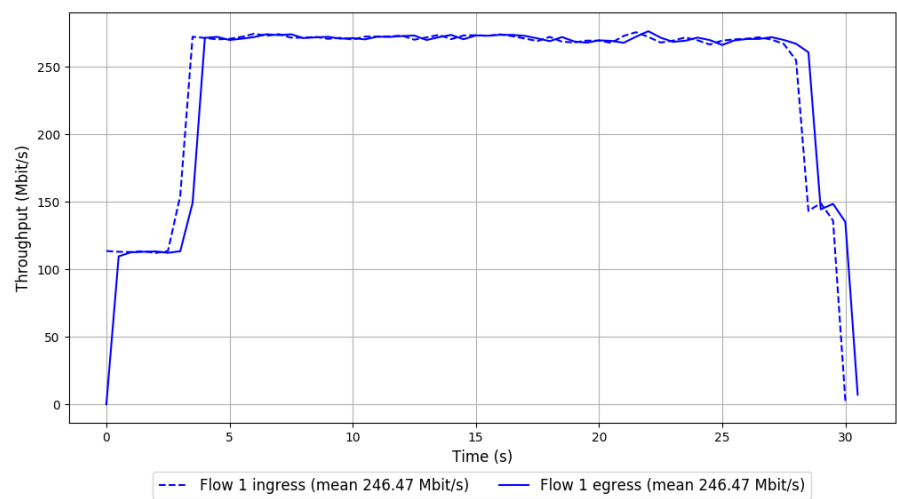
Average throughput: 246.47 Mbit/s

95th percentile per-packet one-way delay: 19.023 ms

Loss rate: 0.00%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-30 09:40:49

End at: 2018-05-30 09:41:19

Local clock offset: 0.487 ms

Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2018-05-30 13:59:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 267.77 Mbit/s

95th percentile per-packet one-way delay: 18.103 ms

Loss rate: 0.00%

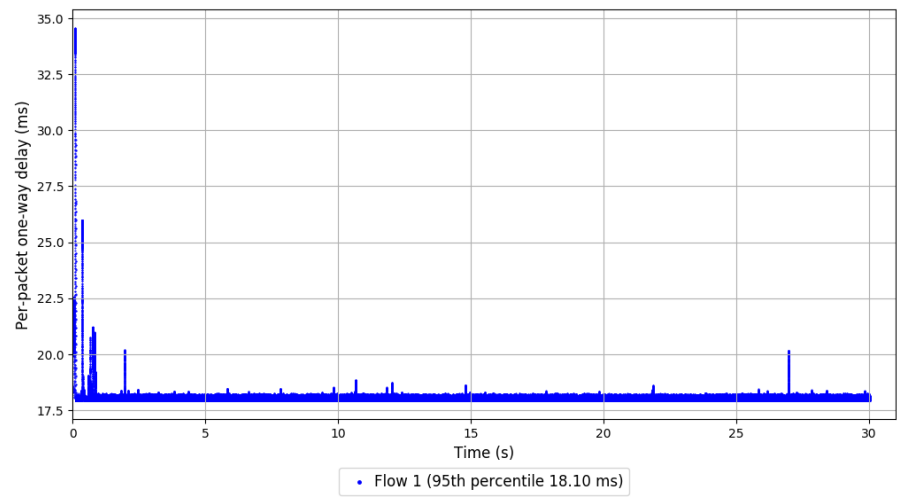
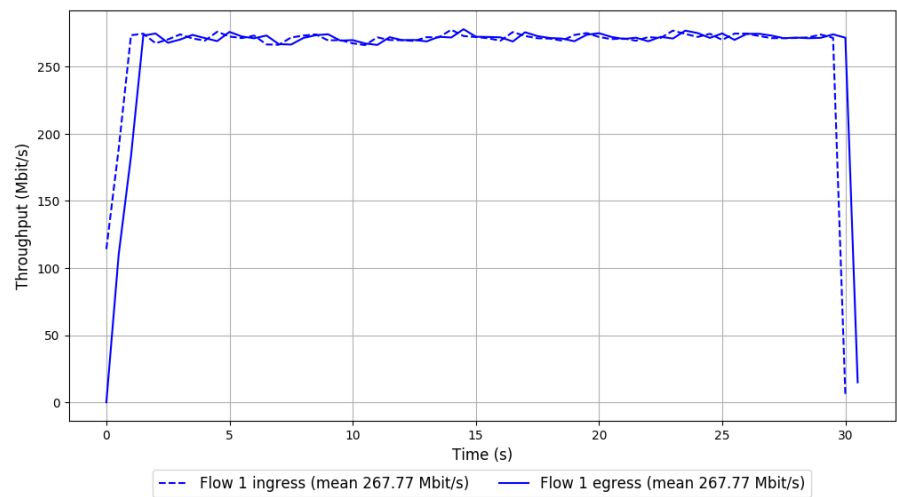
-- Flow 1:

Average throughput: 267.77 Mbit/s

95th percentile per-packet one-way delay: 18.103 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-30 10:04:55

End at: 2018-05-30 10:05:25

Local clock offset: 0.464 ms

Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-05-30 14:00:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.48 Mbit/s

95th percentile per-packet one-way delay: 18.022 ms

Loss rate: 0.00%

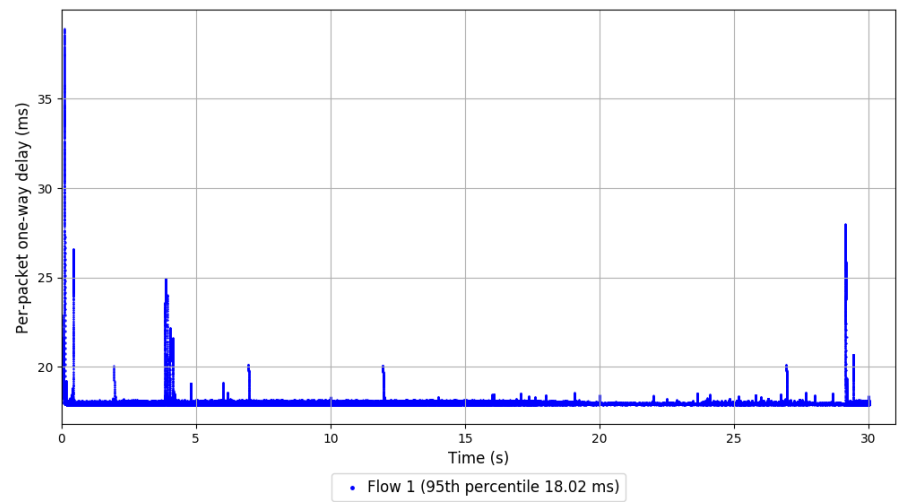
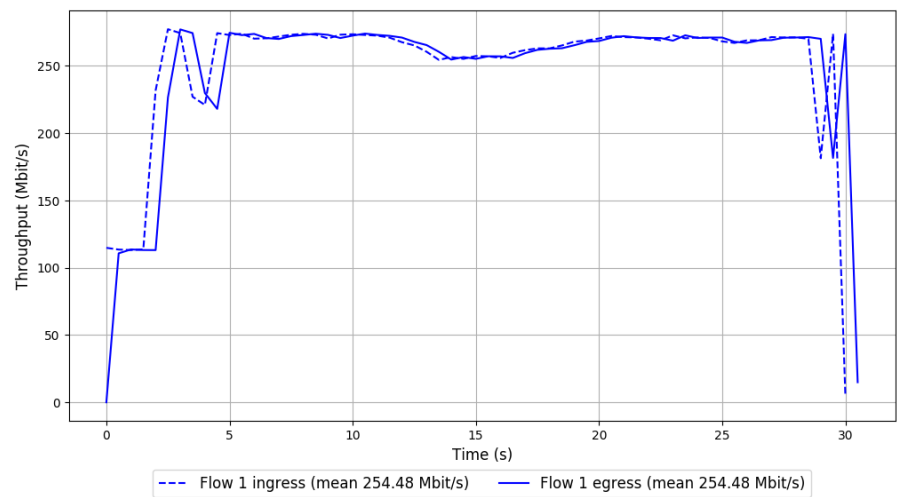
-- Flow 1:

Average throughput: 254.48 Mbit/s

95th percentile per-packet one-way delay: 18.022 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-30 10:28:53

End at: 2018-05-30 10:29:23

Local clock offset: 0.415 ms

Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-05-30 14:01:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 255.19 Mbit/s

95th percentile per-packet one-way delay: 18.842 ms

Loss rate: 0.00%

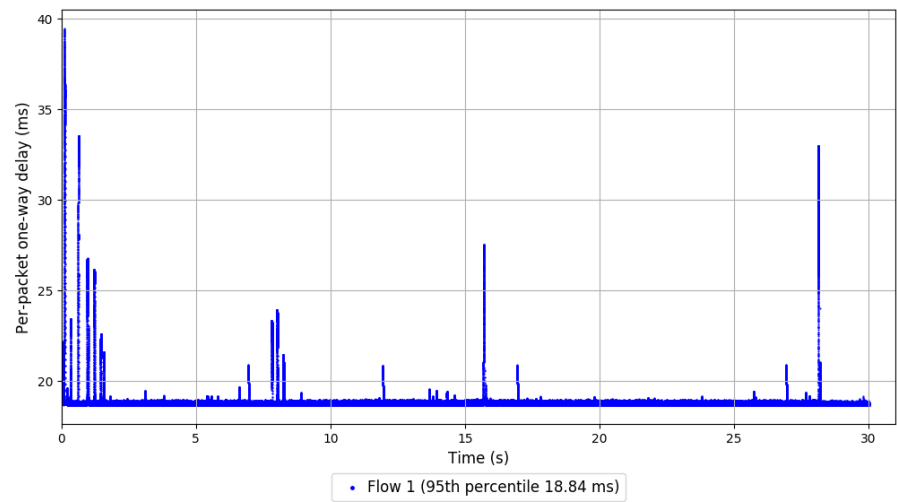
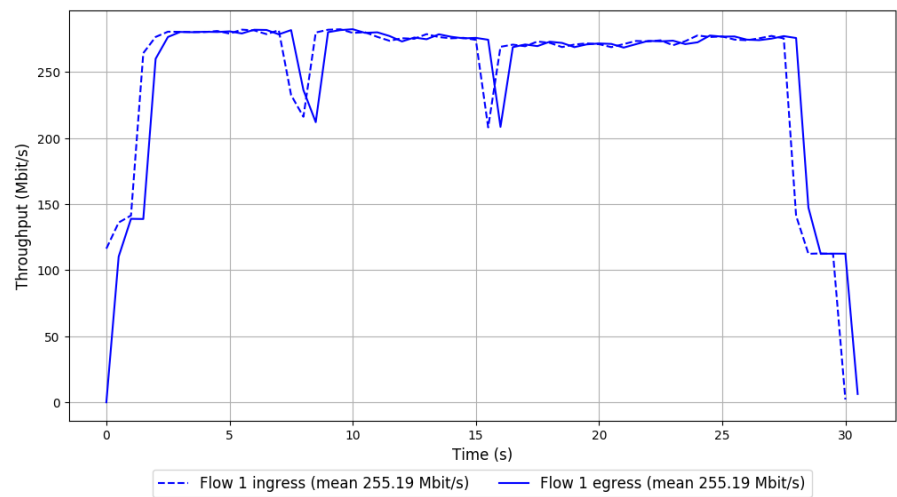
-- Flow 1:

Average throughput: 255.19 Mbit/s

95th percentile per-packet one-way delay: 18.842 ms

Loss rate: 0.00%

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



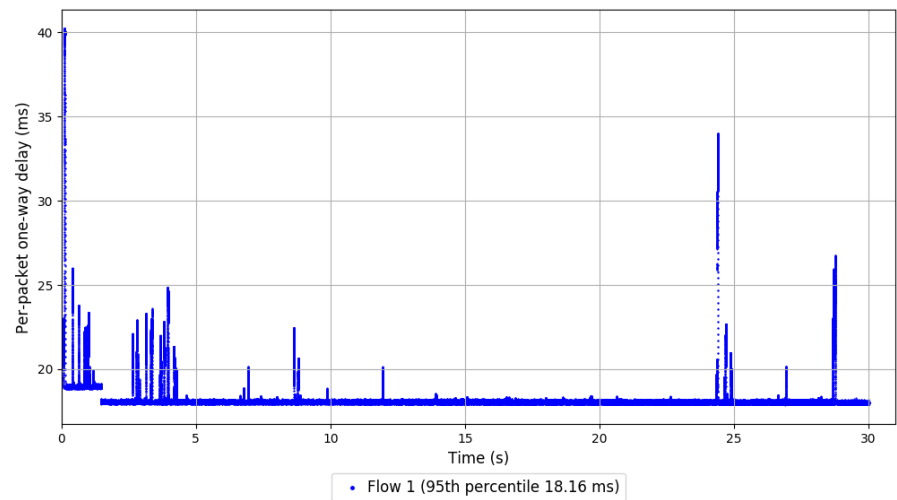
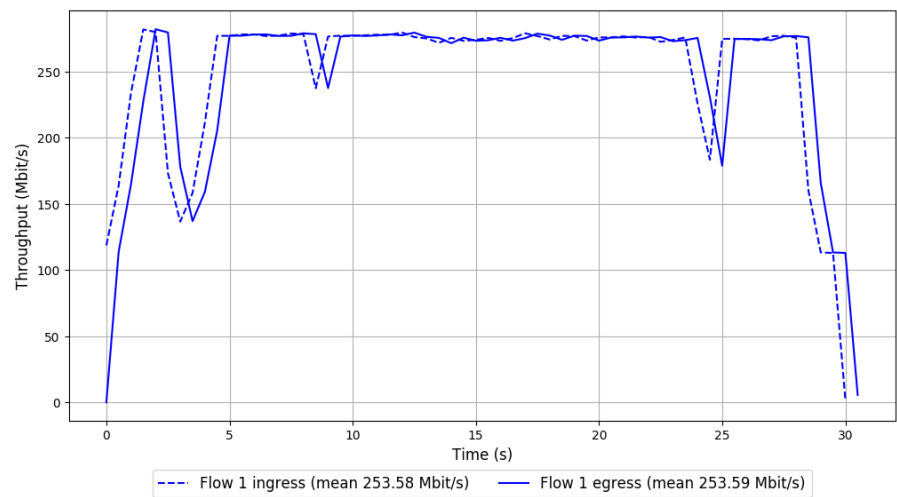
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-30 10:52:52  
End at: 2018-05-30 10:53:22  
Local clock offset: 0.628 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-05-30 14:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 253.59 Mbit/s  
95th percentile per-packet one-way delay: 18.162 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 253.59 Mbit/s  
95th percentile per-packet one-way delay: 18.162 ms  
Loss rate: 0.00%



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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-30 11:16:48

End at: 2018-05-30 11:17:18

Local clock offset: 0.428 ms

Remote clock offset: -0.324 ms

# Below is generated by plot.py at 2018-05-30 14:02:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 247.84 Mbit/s

95th percentile per-packet one-way delay: 18.940 ms

Loss rate: 0.00%

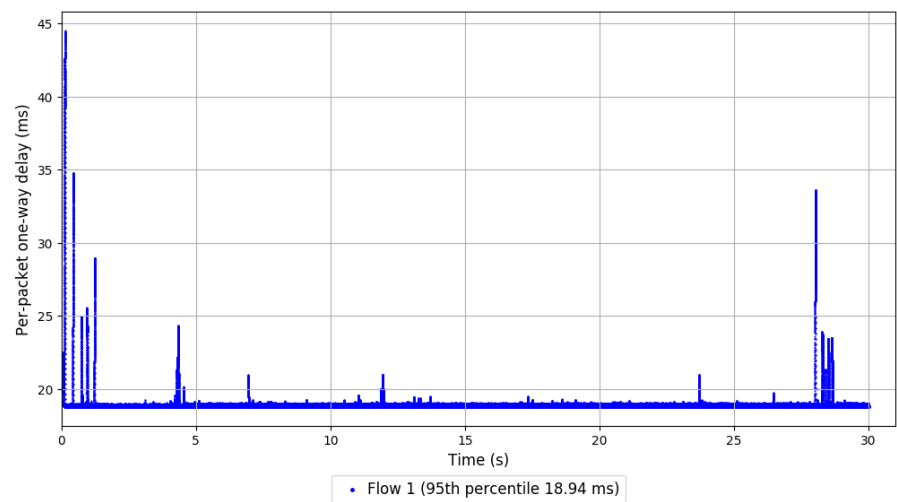
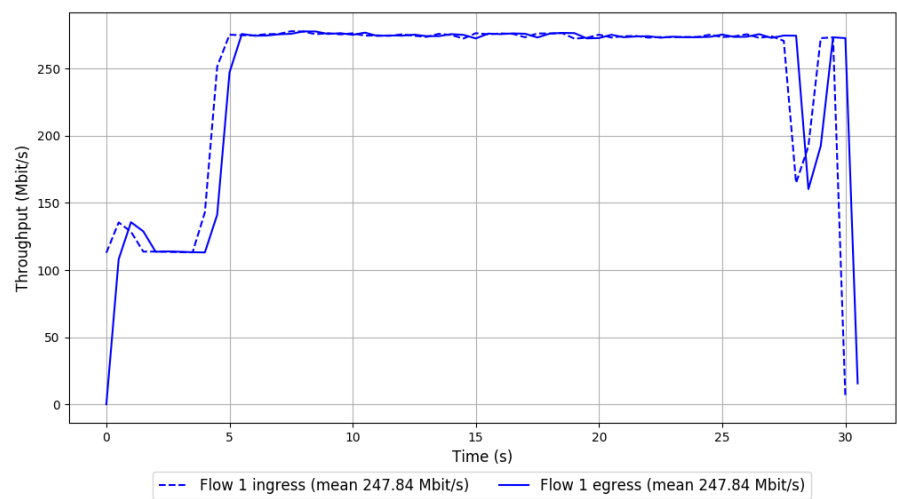
-- Flow 1:

Average throughput: 247.84 Mbit/s

95th percentile per-packet one-way delay: 18.940 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-30 11:40:44

End at: 2018-05-30 11:41:14

Local clock offset: 0.38 ms

Remote clock offset: -0.779 ms

# Below is generated by plot.py at 2018-05-30 14:04:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 266.07 Mbit/s

95th percentile per-packet one-way delay: 19.127 ms

Loss rate: 0.00%

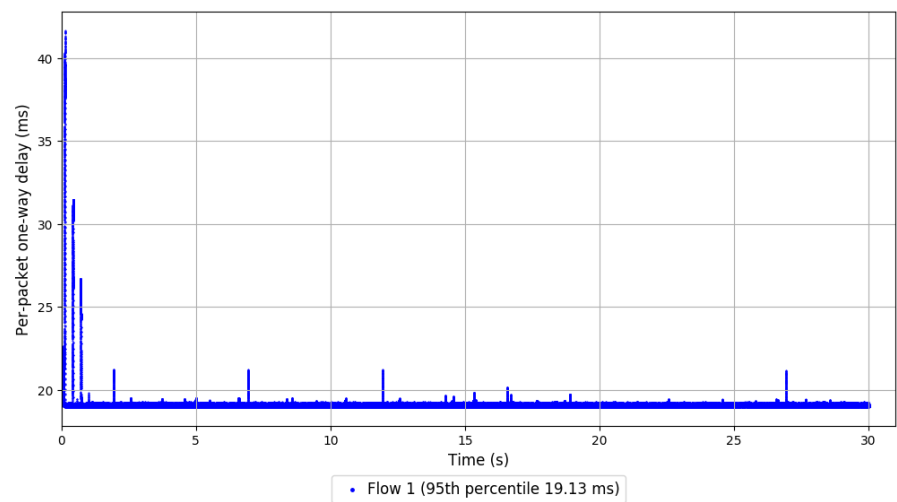
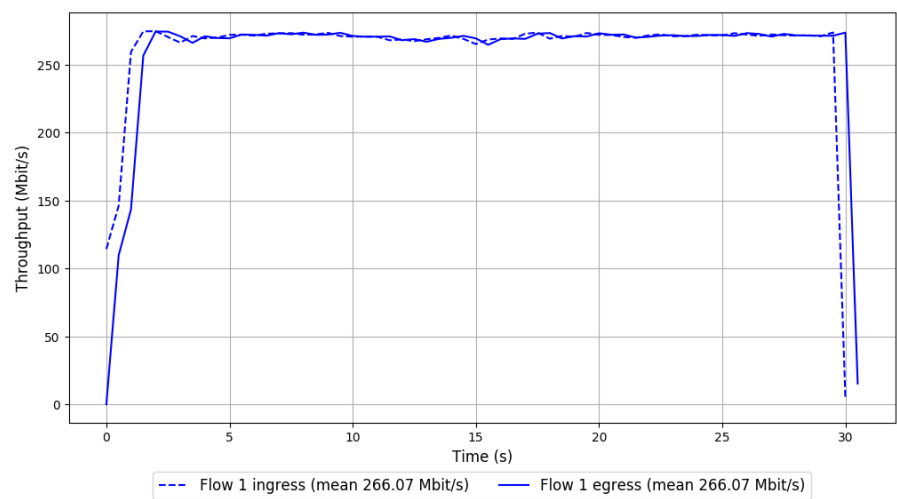
-- Flow 1:

Average throughput: 266.07 Mbit/s

95th percentile per-packet one-way delay: 19.127 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-30 12:04:36

End at: 2018-05-30 12:05:06

Local clock offset: 0.128 ms

Remote clock offset: -1.13 ms

# Below is generated by plot.py at 2018-05-30 14:04:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 256.46 Mbit/s

95th percentile per-packet one-way delay: 18.198 ms

Loss rate: 0.00%

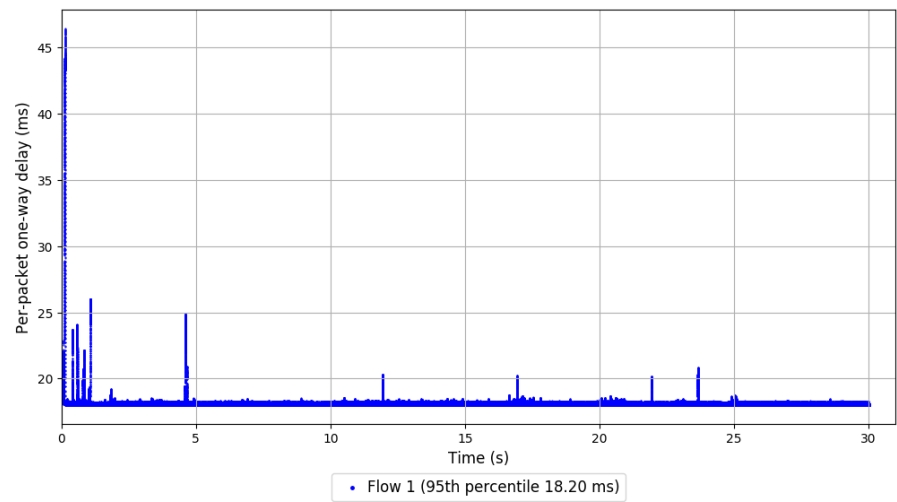
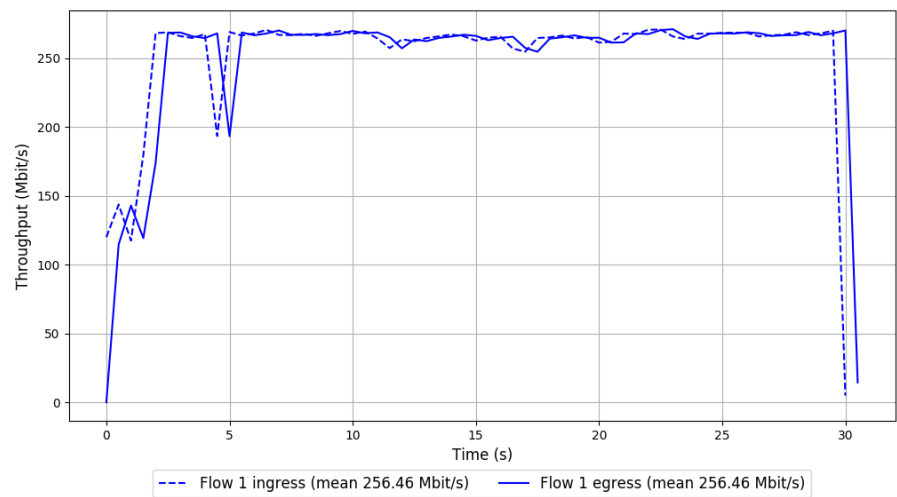
-- Flow 1:

Average throughput: 256.46 Mbit/s

95th percentile per-packet one-way delay: 18.198 ms

Loss rate: 0.00%

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



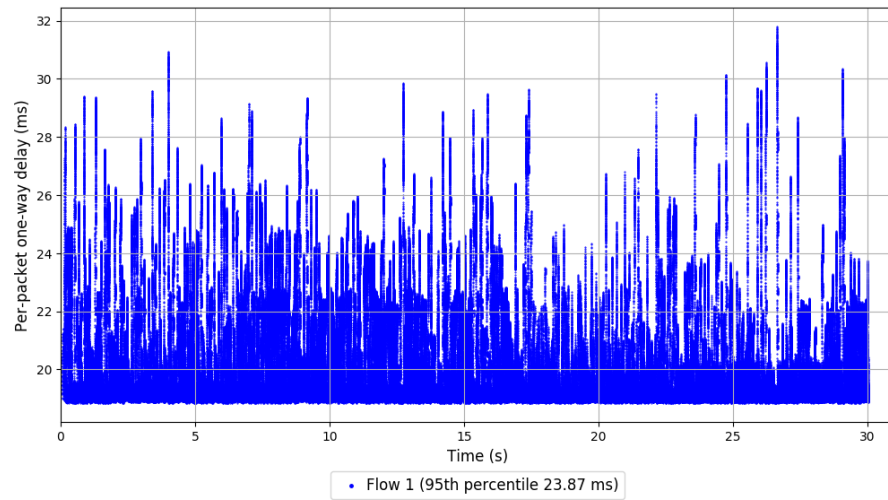
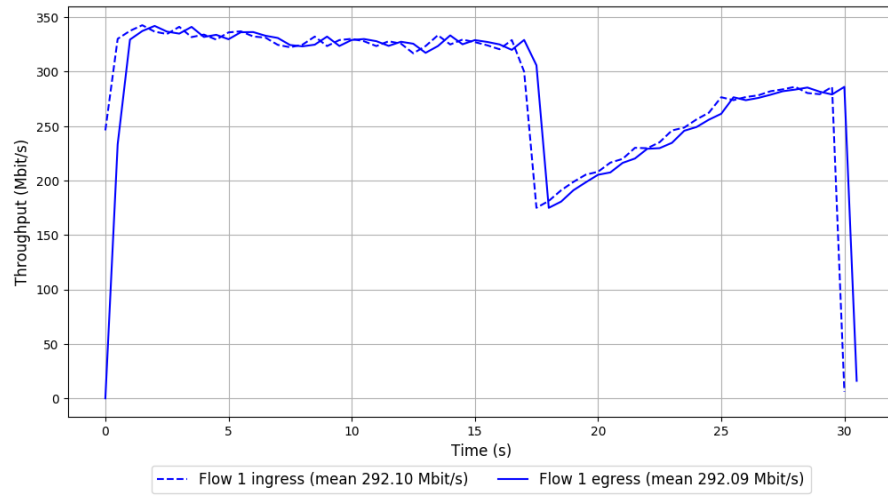
Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 08:30:07  
End at: 2018-05-30 08:30:37  
Local clock offset: 0.234 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-05-30 14:04:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 292.09 Mbit/s  
95th percentile per-packet one-way delay: 23.870 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 292.09 Mbit/s  
95th percentile per-packet one-way delay: 23.870 ms  
Loss rate: 0.01%



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



Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 08:54:07

End at: 2018-05-30 08:54:37

Local clock offset: 0.34 ms

Remote clock offset: 0.267 ms

# Below is generated by plot.py at 2018-05-30 14:04:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 273.06 Mbit/s

95th percentile per-packet one-way delay: 22.454 ms

Loss rate: 0.01%

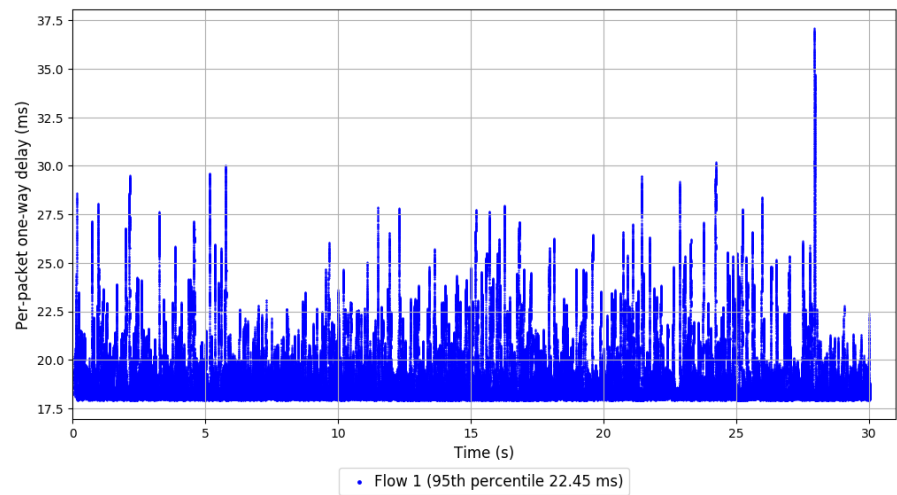
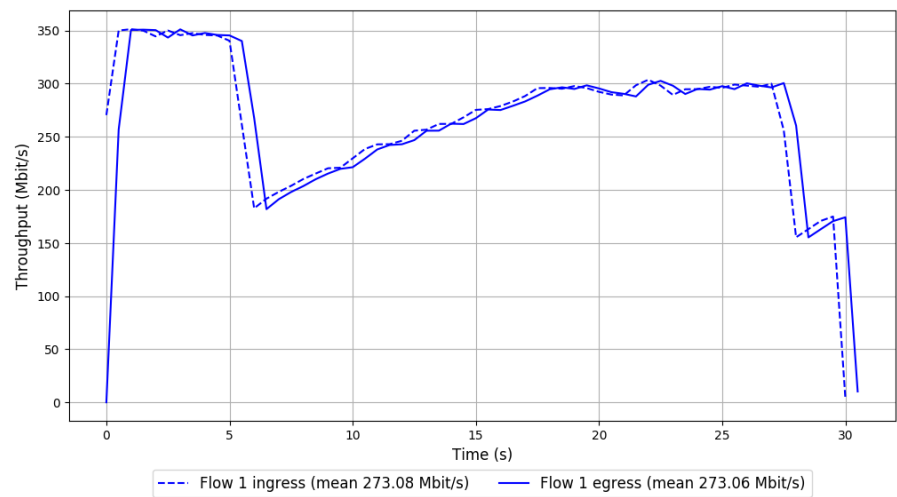
-- Flow 1:

Average throughput: 273.06 Mbit/s

95th percentile per-packet one-way delay: 22.454 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

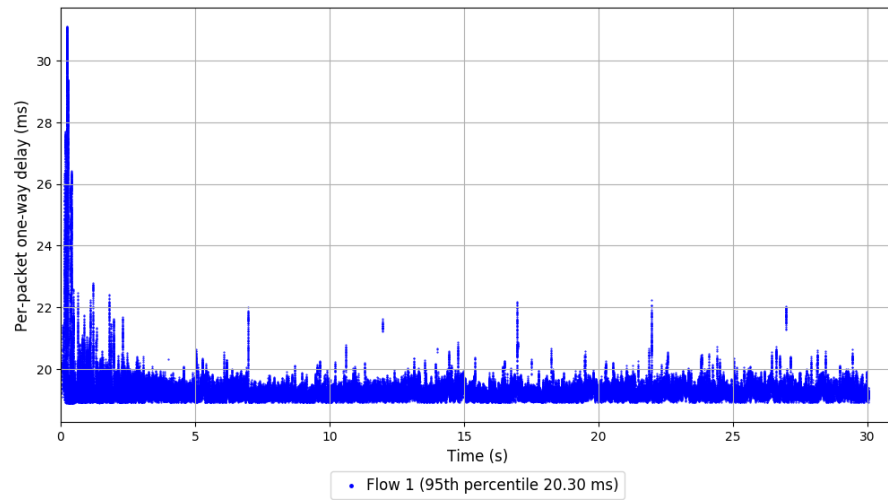
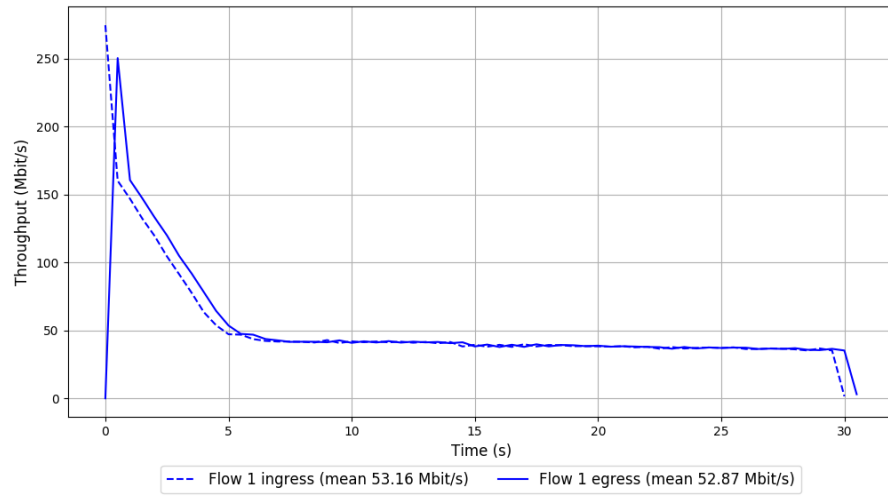


Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 09:18:14  
End at: 2018-05-30 09:18:44  
Local clock offset: 0.215 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-05-30 14:04:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 52.87 Mbit/s  
95th percentile per-packet one-way delay: 20.298 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 52.87 Mbit/s  
95th percentile per-packet one-way delay: 20.298 ms  
Loss rate: 0.56%

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

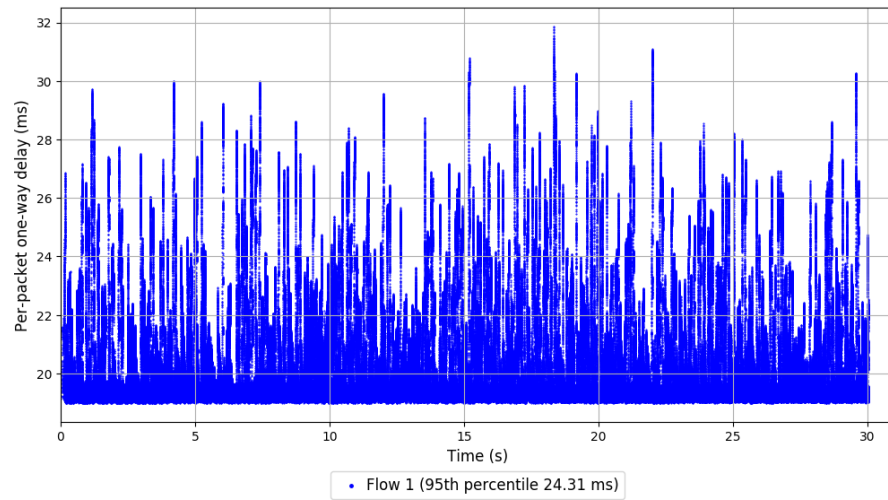
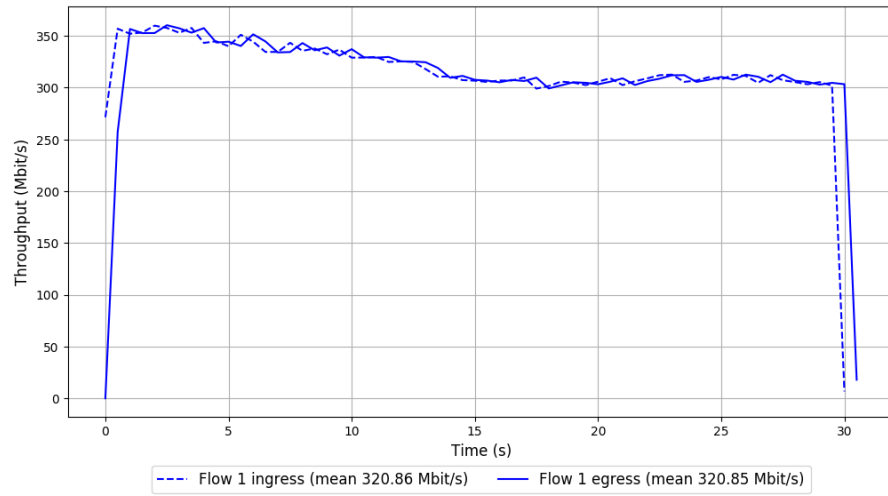


Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 09:42:22  
End at: 2018-05-30 09:42:52  
Local clock offset: 0.41 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-05-30 14:05:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 320.85 Mbit/s  
95th percentile per-packet one-way delay: 24.312 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 320.85 Mbit/s  
95th percentile per-packet one-way delay: 24.312 ms  
Loss rate: 0.00%

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



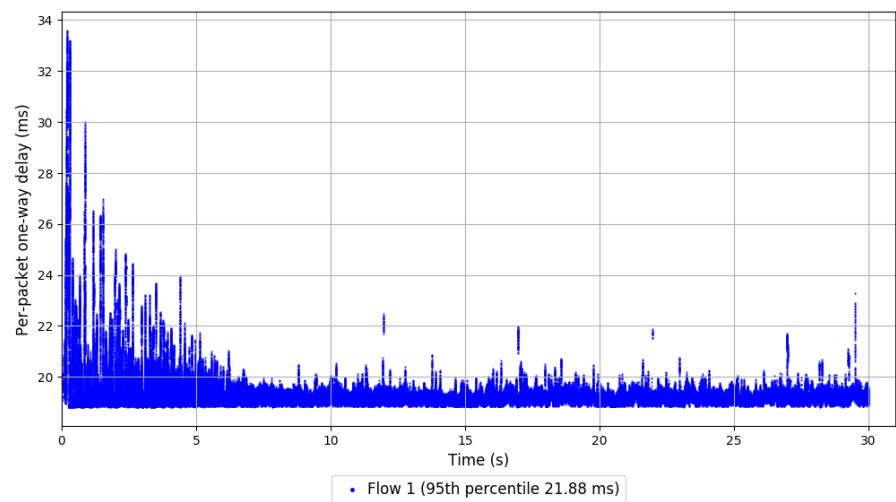
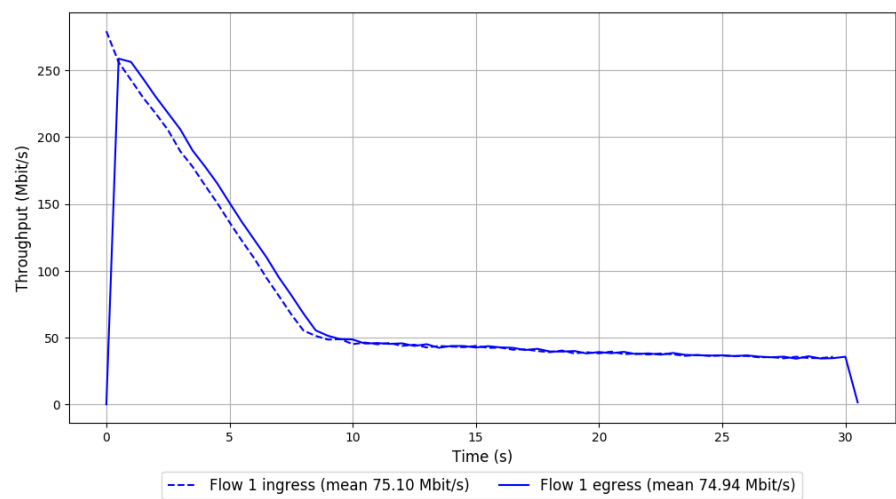
Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 10:06:27  
End at: 2018-05-30 10:06:57  
Local clock offset: 0.464 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-05-30 14:05:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.94 Mbit/s  
95th percentile per-packet one-way delay: 21.878 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 74.94 Mbit/s  
95th percentile per-packet one-way delay: 21.878 ms  
Loss rate: 0.22%



Run 5: Report of TCP Vegas — Data Link

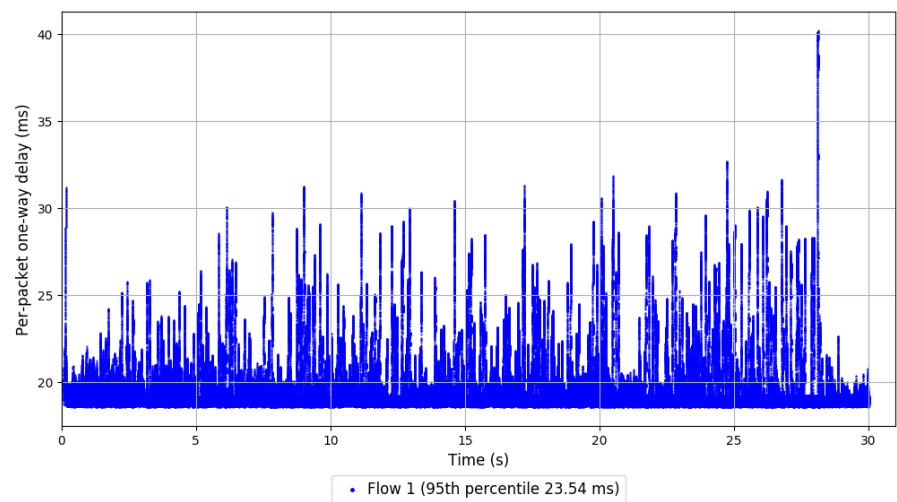
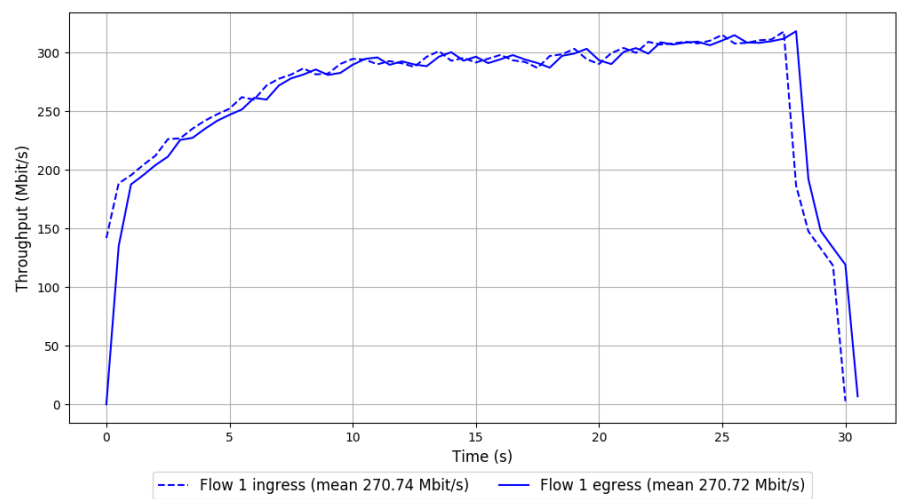


Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 10:30:26  
End at: 2018-05-30 10:30:56  
Local clock offset: 0.505 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-05-30 14:05:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 270.72 Mbit/s  
95th percentile per-packet one-way delay: 23.542 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 270.72 Mbit/s  
95th percentile per-packet one-way delay: 23.542 ms  
Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link

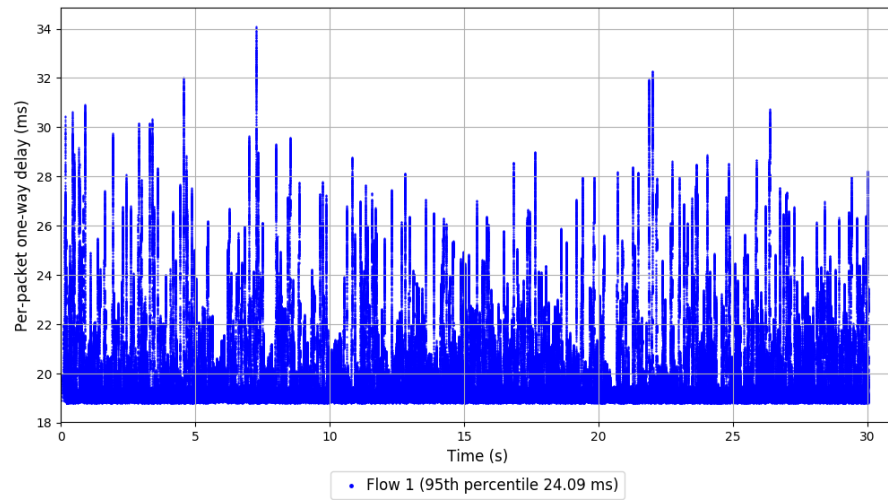
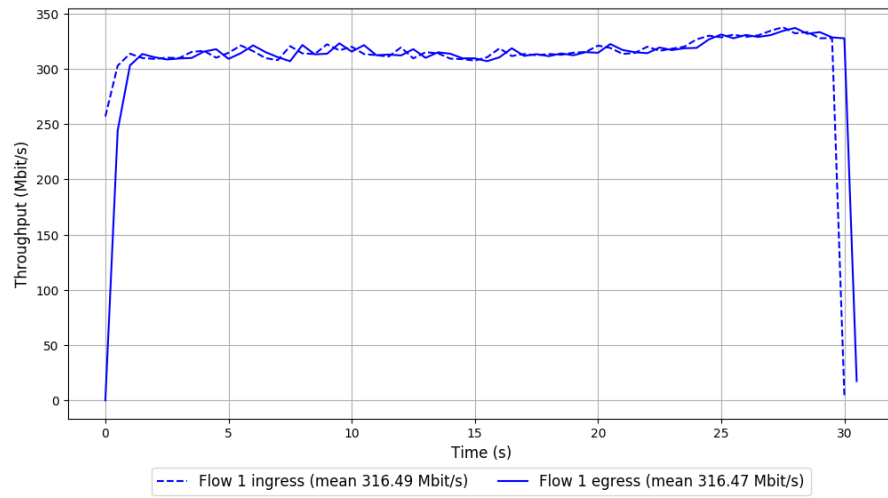


Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 10:54:24  
End at: 2018-05-30 10:54:54  
Local clock offset: 0.598 ms  
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2018-05-30 14:06:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 316.47 Mbit/s  
95th percentile per-packet one-way delay: 24.085 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 316.47 Mbit/s  
95th percentile per-packet one-way delay: 24.085 ms  
Loss rate: 0.01%

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

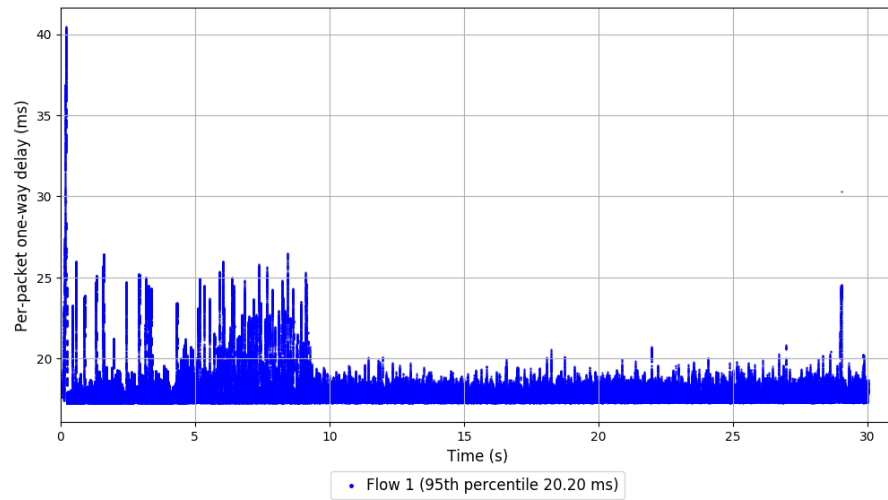
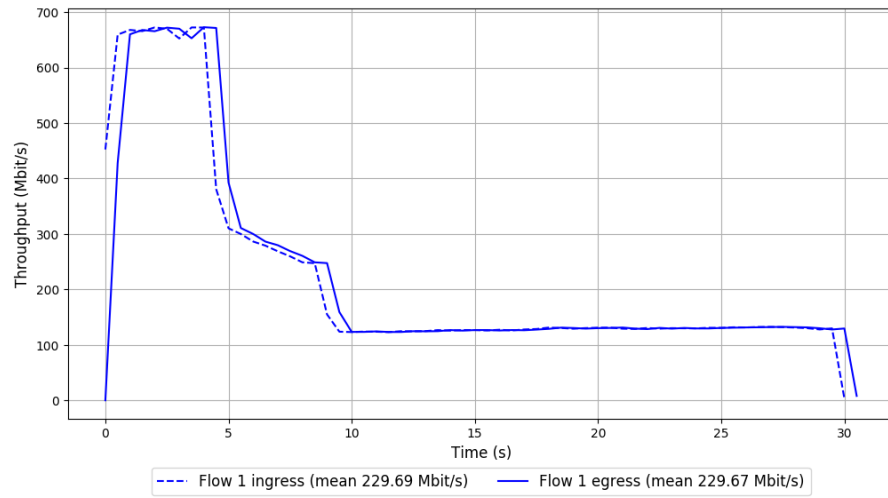


Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 11:18:19  
End at: 2018-05-30 11:18:49  
Local clock offset: 0.52 ms  
Remote clock offset: -0.372 ms

# Below is generated by plot.py at 2018-05-30 14:06:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 229.67 Mbit/s  
95th percentile per-packet one-way delay: 20.204 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 229.67 Mbit/s  
95th percentile per-packet one-way delay: 20.204 ms  
Loss rate: 0.01%

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



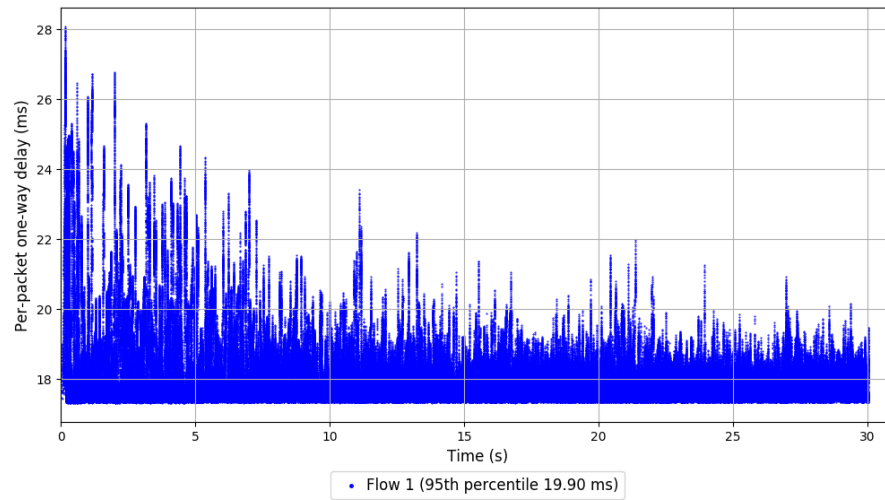
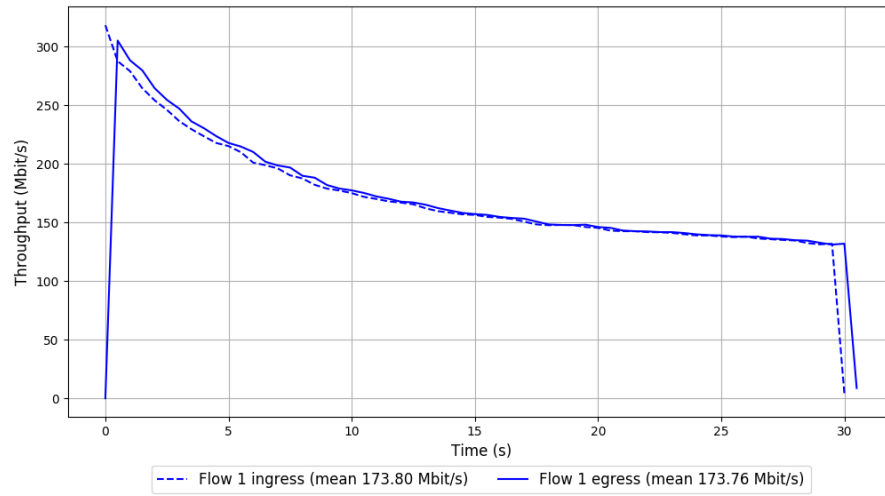
Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 11:42:17  
End at: 2018-05-30 11:42:47  
Local clock offset: 0.386 ms  
Remote clock offset: -0.796 ms

# Below is generated by plot.py at 2018-05-30 14:06:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 173.76 Mbit/s  
95th percentile per-packet one-way delay: 19.902 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 173.76 Mbit/s  
95th percentile per-packet one-way delay: 19.902 ms  
Loss rate: 0.02%



### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 12:06:08

End at: 2018-05-30 12:06:38

Local clock offset: 0.114 ms

Remote clock offset: -1.057 ms

# Below is generated by plot.py at 2018-05-30 14:06:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 292.65 Mbit/s

95th percentile per-packet one-way delay: 22.120 ms

Loss rate: 0.01%

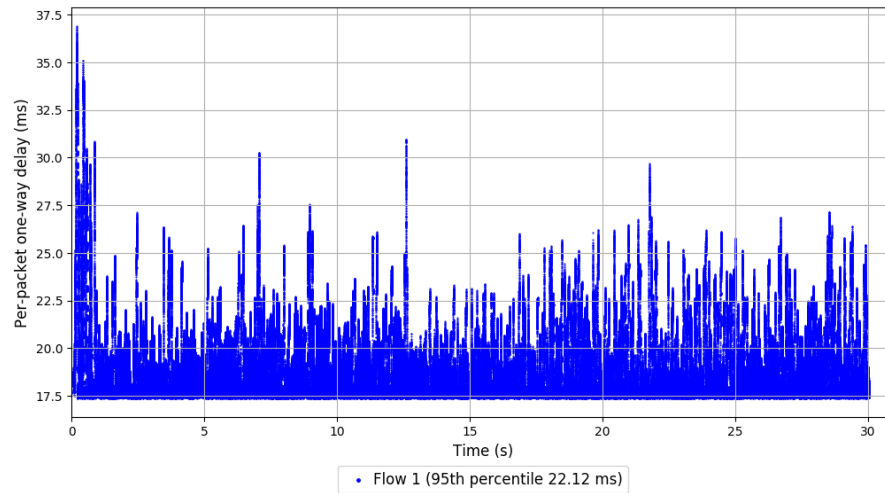
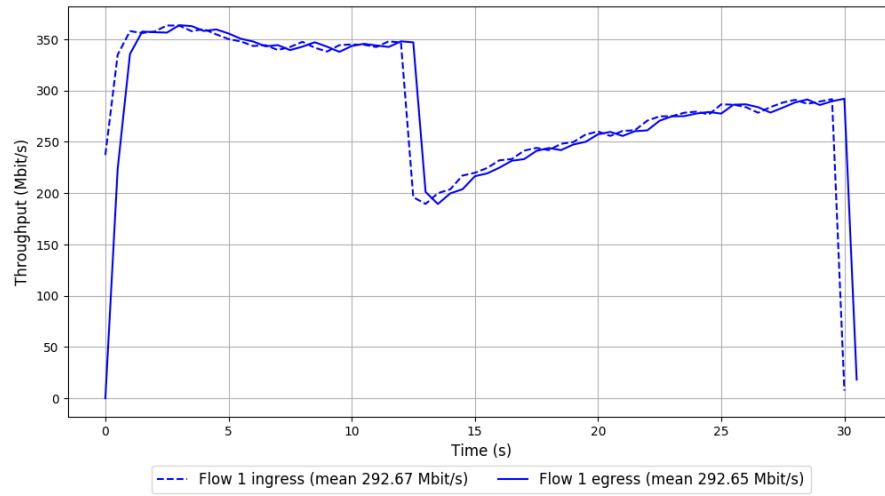
-- Flow 1:

Average throughput: 292.65 Mbit/s

95th percentile per-packet one-way delay: 22.120 ms

Loss rate: 0.01%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-30 08:41:57

End at: 2018-05-30 08:42:27

Local clock offset: 0.291 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2018-05-30 14:07:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 205.36 Mbit/s

95th percentile per-packet one-way delay: 49.247 ms

Loss rate: 19.53%

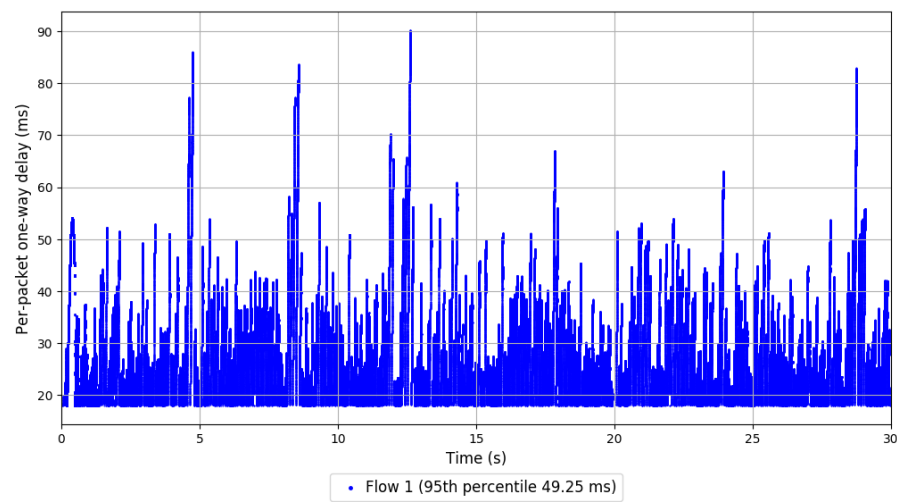
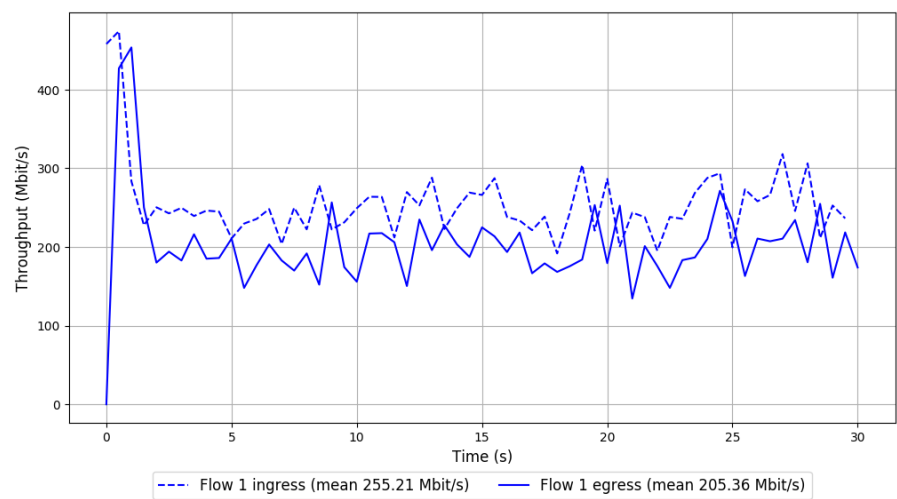
-- Flow 1:

Average throughput: 205.36 Mbit/s

95th percentile per-packet one-way delay: 49.247 ms

Loss rate: 19.53%

Run 1: Report of Verus — Data Link

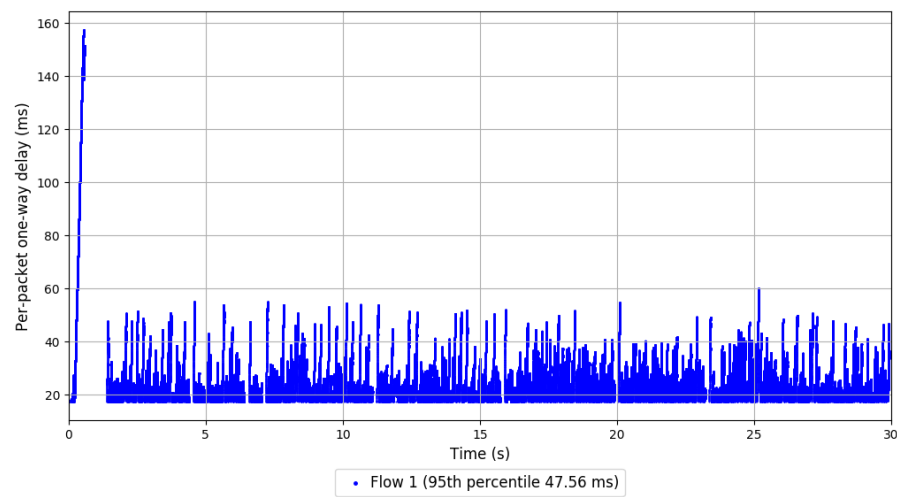
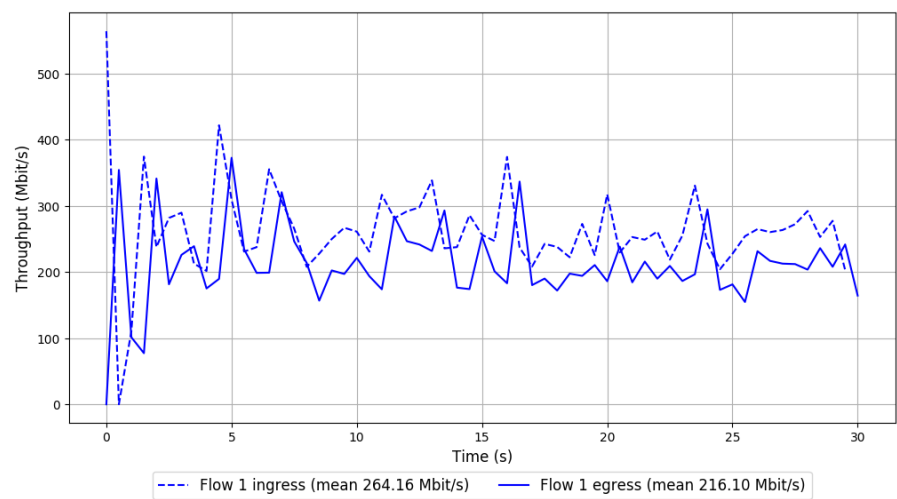


Run 2: Statistics of Verus

Start at: 2018-05-30 09:05:58  
End at: 2018-05-30 09:06:28  
Local clock offset: 0.125 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-05-30 14:07:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 216.10 Mbit/s  
95th percentile per-packet one-way delay: 47.557 ms  
Loss rate: 18.14%  
-- Flow 1:  
Average throughput: 216.10 Mbit/s  
95th percentile per-packet one-way delay: 47.557 ms  
Loss rate: 18.14%

Run 2: Report of Verus — Data Link



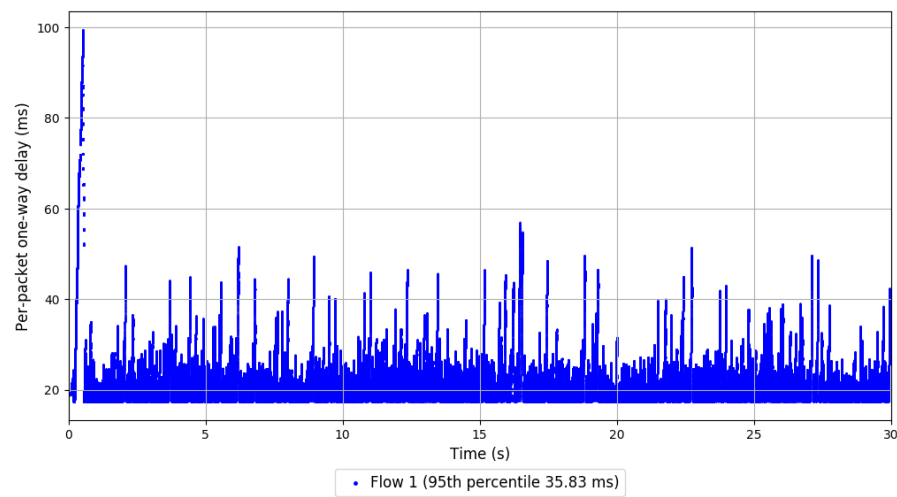
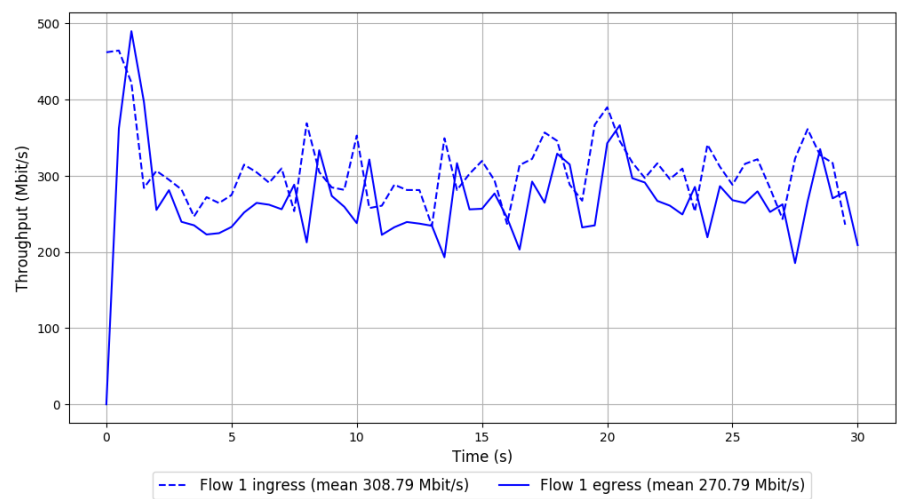
Run 3: Statistics of Verus

Start at: 2018-05-30 09:30:03  
End at: 2018-05-30 09:30:33  
Local clock offset: 0.249 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-05-30 14:08:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 270.79 Mbit/s  
95th percentile per-packet one-way delay: 35.833 ms  
Loss rate: 12.24%  
-- Flow 1:  
Average throughput: 270.79 Mbit/s  
95th percentile per-packet one-way delay: 35.833 ms  
Loss rate: 12.24%



Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-30 09:54:20

End at: 2018-05-30 09:54:50

Local clock offset: 0.618 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-05-30 14:08:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.93 Mbit/s

95th percentile per-packet one-way delay: 50.839 ms

Loss rate: 19.89%

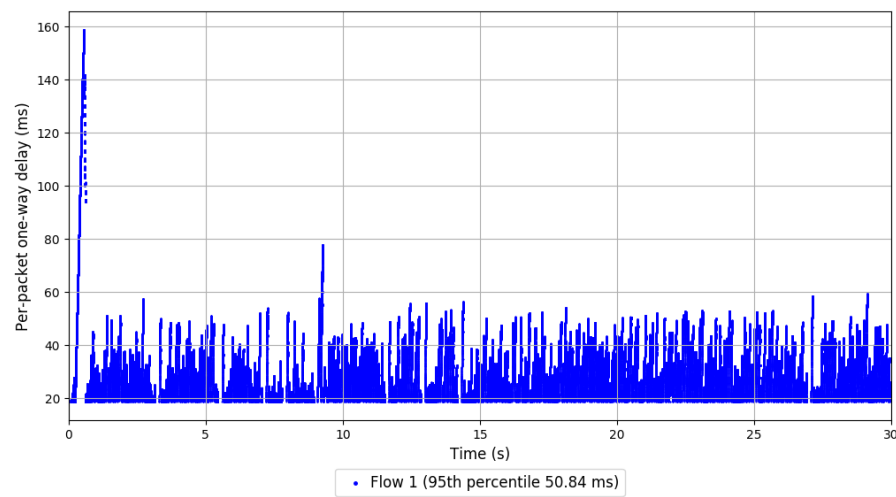
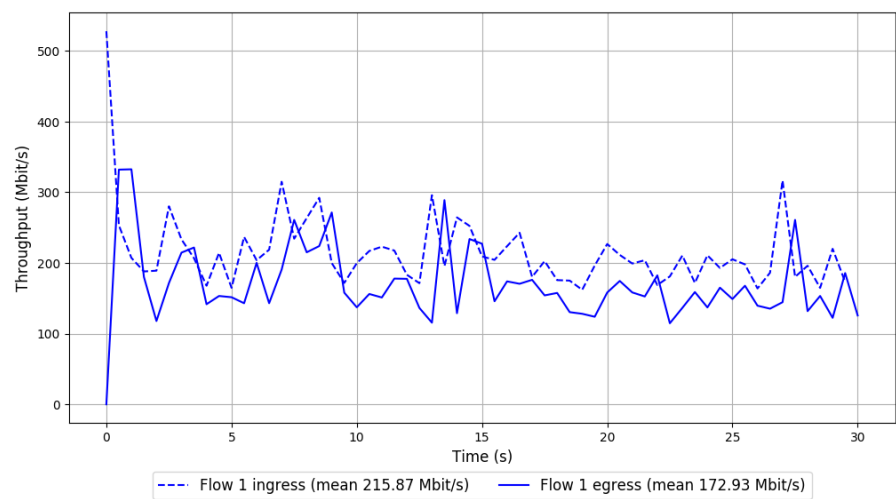
-- Flow 1:

Average throughput: 172.93 Mbit/s

95th percentile per-packet one-way delay: 50.839 ms

Loss rate: 19.89%

Run 4: Report of Verus — Data Link

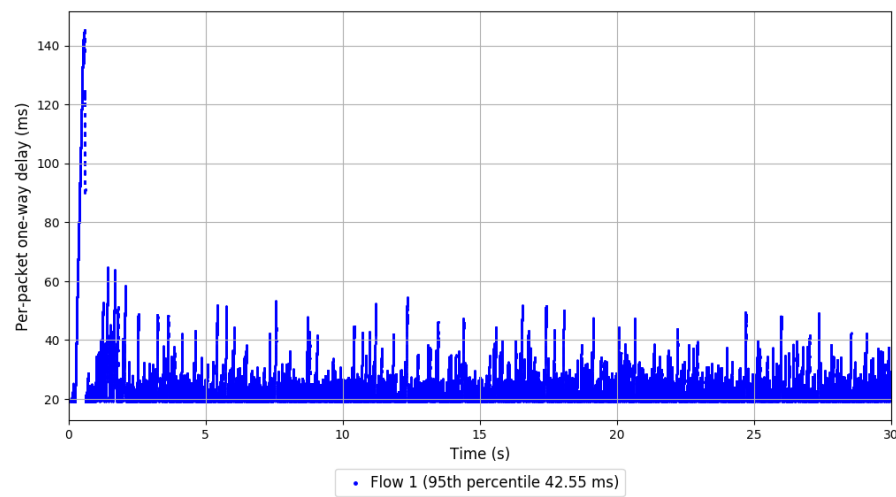
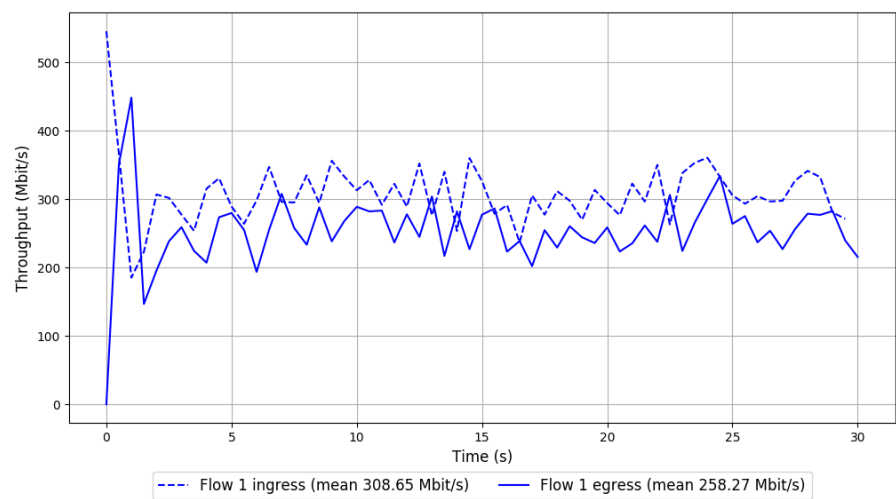


Run 5: Statistics of Verus

Start at: 2018-05-30 10:18:10  
End at: 2018-05-30 10:18:40  
Local clock offset: 0.41 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-05-30 14:08:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 258.27 Mbit/s  
95th percentile per-packet one-way delay: 42.549 ms  
Loss rate: 16.32%  
-- Flow 1:  
Average throughput: 258.27 Mbit/s  
95th percentile per-packet one-way delay: 42.549 ms  
Loss rate: 16.32%

Run 5: Report of Verus — Data Link

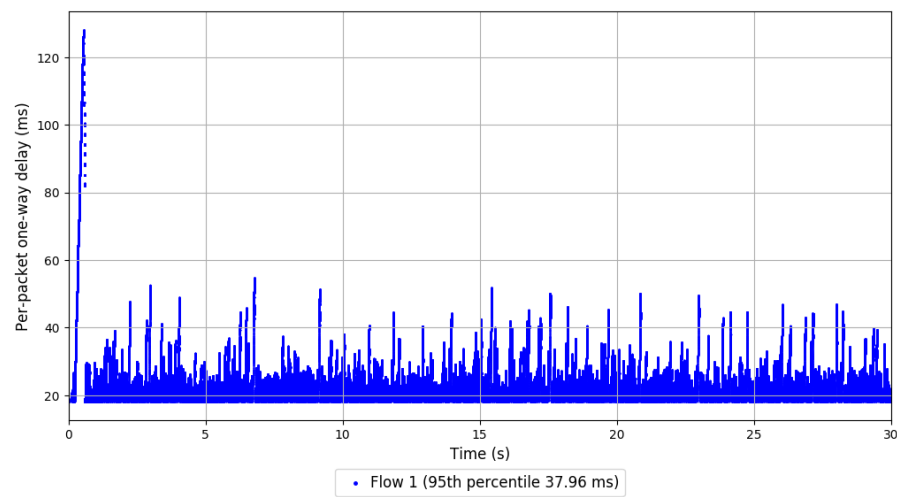
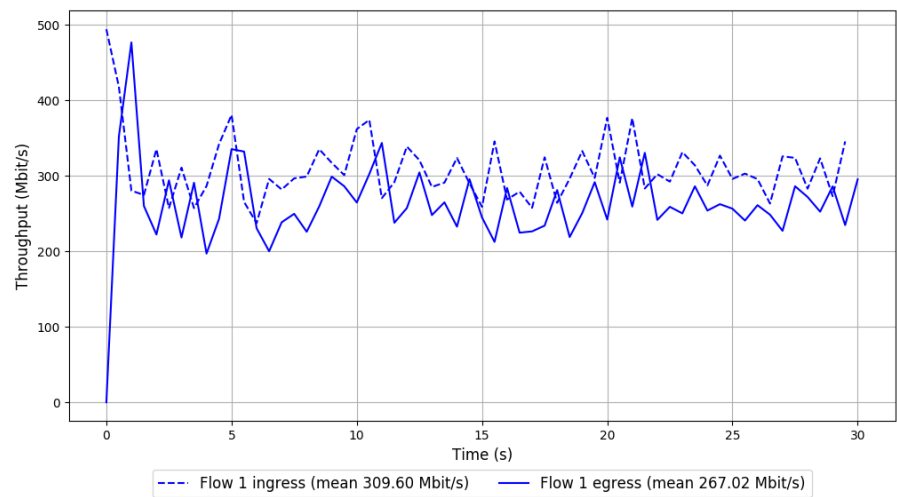


Run 6: Statistics of Verus

Start at: 2018-05-30 10:42:13  
End at: 2018-05-30 10:42:43  
Local clock offset: 0.468 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-05-30 14:09:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 267.02 Mbit/s  
95th percentile per-packet one-way delay: 37.958 ms  
Loss rate: 13.75%  
-- Flow 1:  
Average throughput: 267.02 Mbit/s  
95th percentile per-packet one-way delay: 37.958 ms  
Loss rate: 13.75%

Run 6: Report of Verus — Data Link



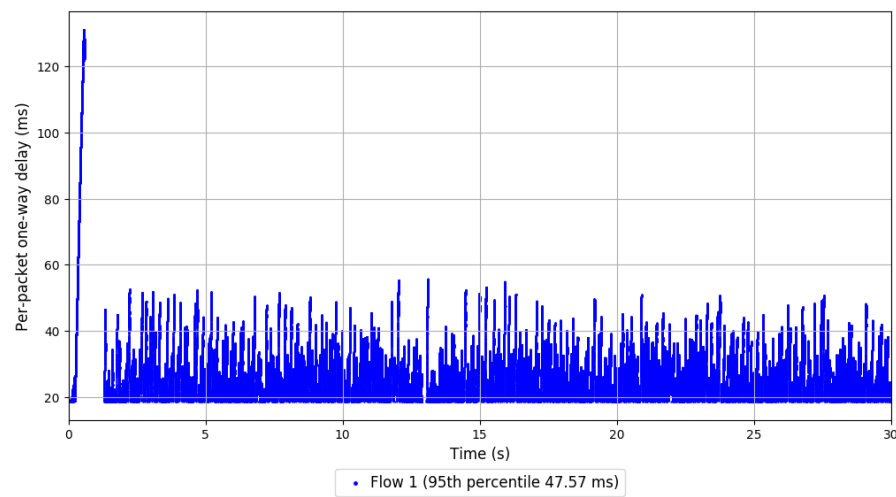
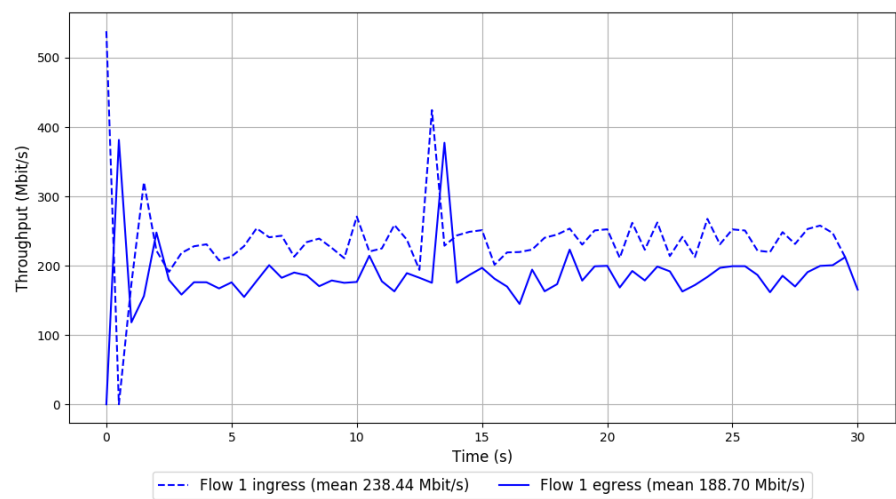
Run 7: Statistics of Verus

Start at: 2018-05-30 11:06:10  
End at: 2018-05-30 11:06:40  
Local clock offset: 0.517 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-05-30 14:09:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.70 Mbit/s  
95th percentile per-packet one-way delay: 47.571 ms  
Loss rate: 20.85%  
-- Flow 1:  
Average throughput: 188.70 Mbit/s  
95th percentile per-packet one-way delay: 47.571 ms  
Loss rate: 20.85%



Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-30 11:30:03

End at: 2018-05-30 11:30:33

Local clock offset: 0.397 ms

Remote clock offset: -0.64 ms

# Below is generated by plot.py at 2018-05-30 14:09:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.82 Mbit/s

95th percentile per-packet one-way delay: 49.517 ms

Loss rate: 17.79%

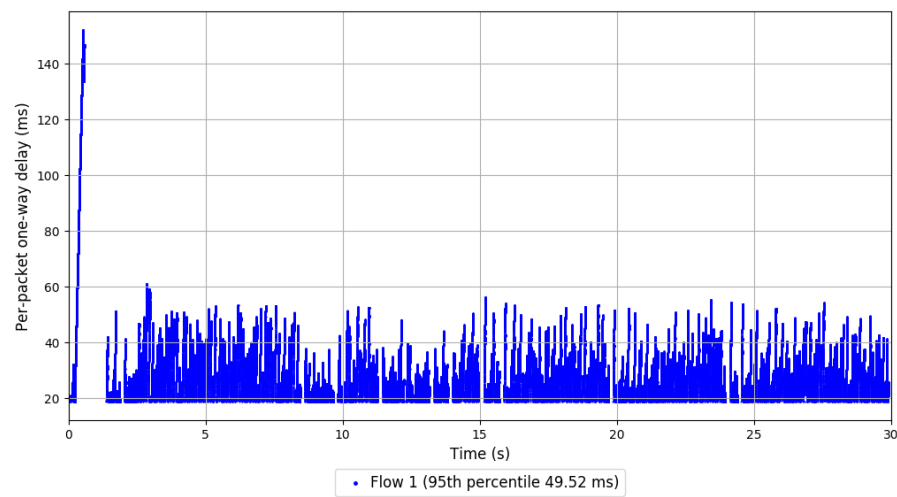
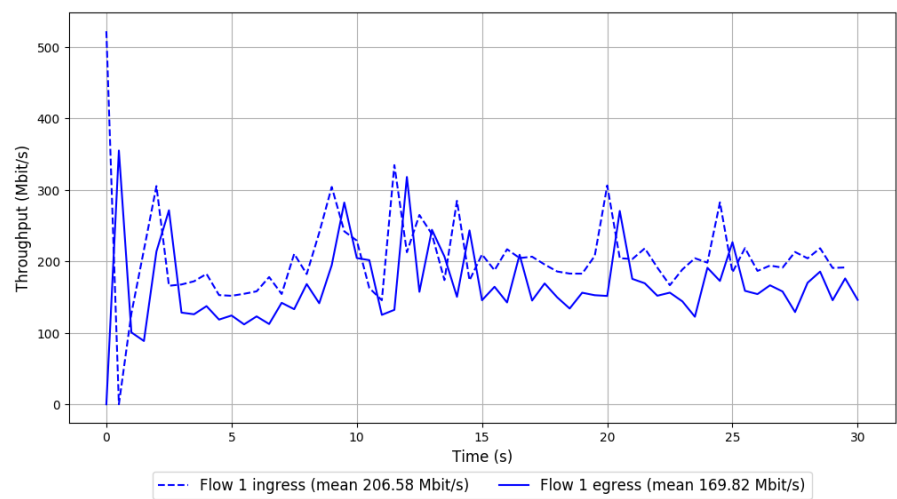
-- Flow 1:

Average throughput: 169.82 Mbit/s

95th percentile per-packet one-way delay: 49.517 ms

Loss rate: 17.79%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-30 11:53:59

End at: 2018-05-30 11:54:29

Local clock offset: 0.461 ms

Remote clock offset: -0.97 ms

# Below is generated by plot.py at 2018-05-30 14:10:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.98 Mbit/s

95th percentile per-packet one-way delay: 43.980 ms

Loss rate: 16.56%

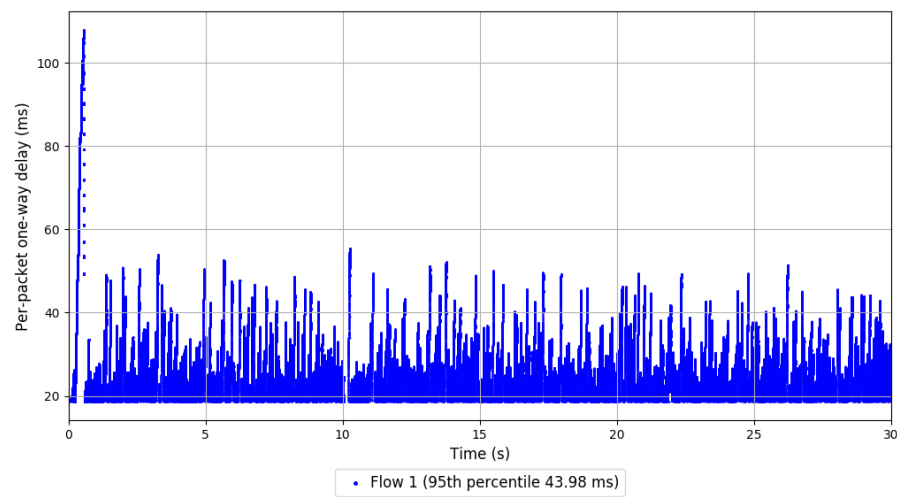
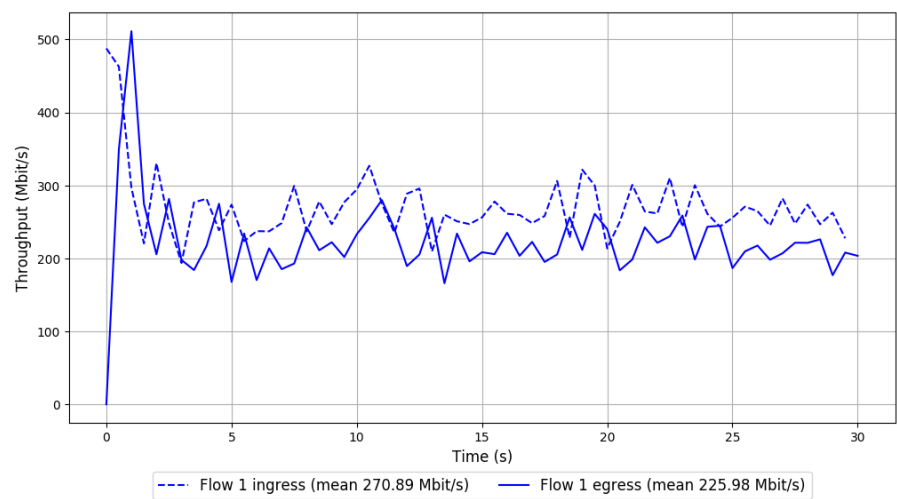
-- Flow 1:

Average throughput: 225.98 Mbit/s

95th percentile per-packet one-way delay: 43.980 ms

Loss rate: 16.56%

Run 9: Report of Verus — Data Link

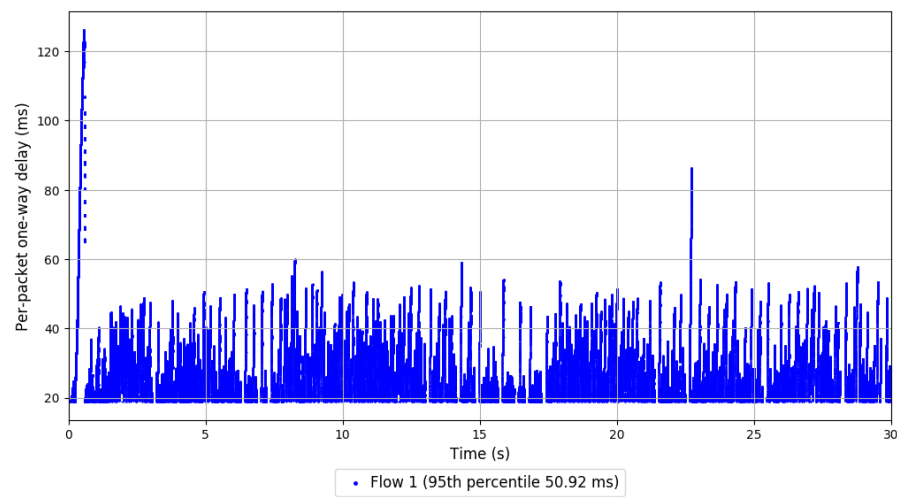
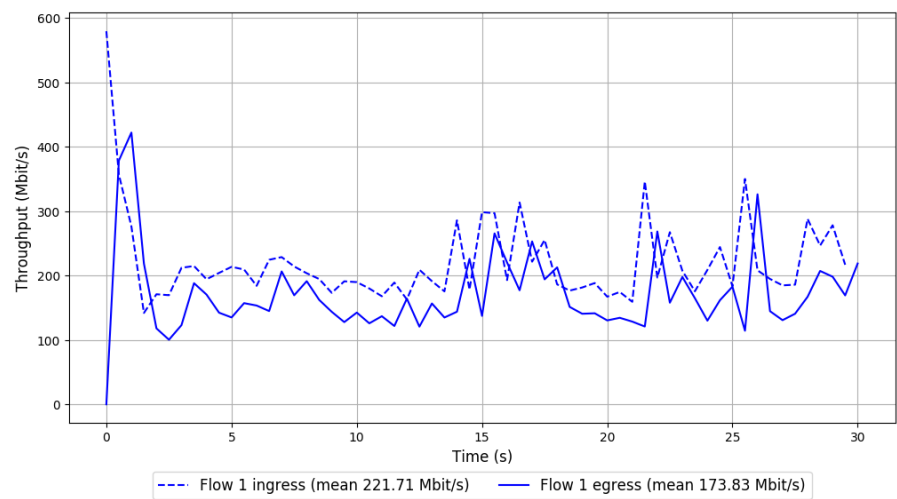


Run 10: Statistics of Verus

Start at: 2018-05-30 12:17:57  
End at: 2018-05-30 12:18:27  
Local clock offset: 0.099 ms  
Remote clock offset: -1.366 ms

# Below is generated by plot.py at 2018-05-30 14:10:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 173.83 Mbit/s  
95th percentile per-packet one-way delay: 50.924 ms  
Loss rate: 21.60%  
-- Flow 1:  
Average throughput: 173.83 Mbit/s  
95th percentile per-packet one-way delay: 50.924 ms  
Loss rate: 21.60%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 08:26:58

End at: 2018-05-30 08:27:28

Local clock offset: 0.171 ms

Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-05-30 14:13:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 438.81 Mbit/s

95th percentile per-packet one-way delay: 36.564 ms

Loss rate: 0.00%

-- Flow 1:

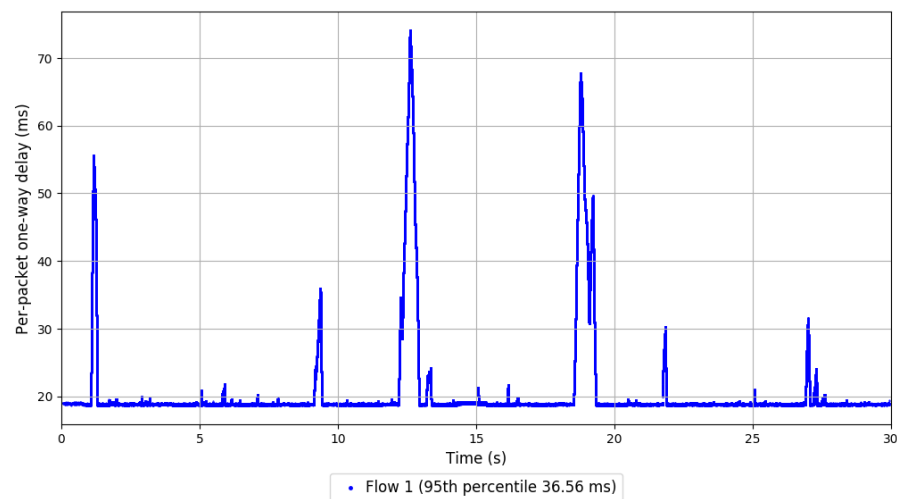
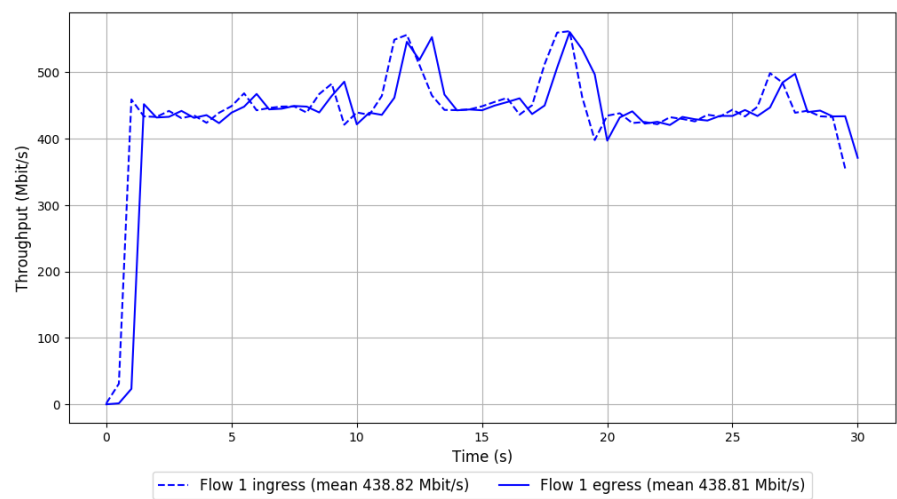
Average throughput: 438.81 Mbit/s

95th percentile per-packet one-way delay: 36.564 ms

Loss rate: 0.00%



Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 08:50:58

End at: 2018-05-30 08:51:28

Local clock offset: 0.363 ms

Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-05-30 14:14:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 449.48 Mbit/s

95th percentile per-packet one-way delay: 42.361 ms

Loss rate: 0.00%

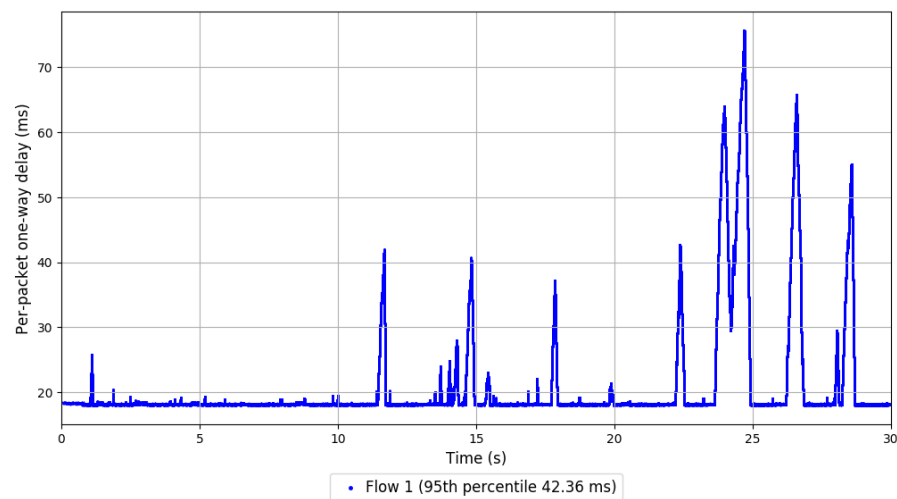
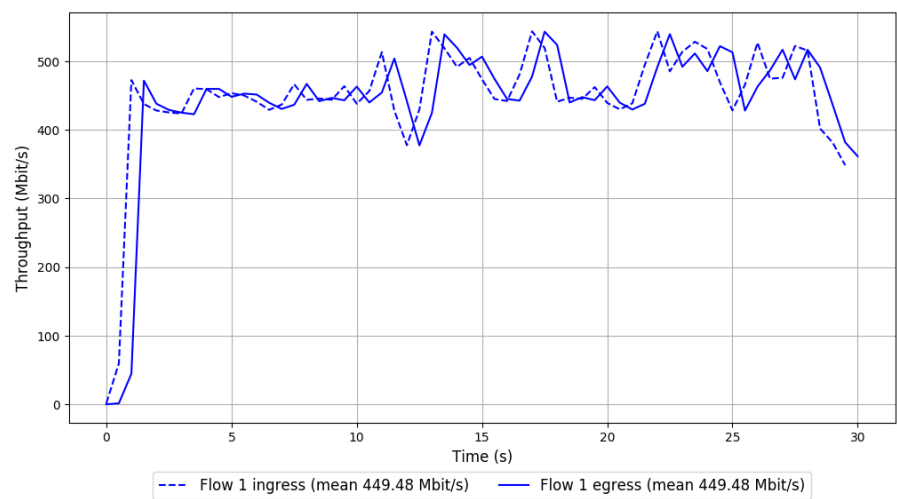
-- Flow 1:

Average throughput: 449.48 Mbit/s

95th percentile per-packet one-way delay: 42.361 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 09:15:05

End at: 2018-05-30 09:15:35

Local clock offset: 0.205 ms

Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-05-30 14:14:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 438.38 Mbit/s

95th percentile per-packet one-way delay: 20.258 ms

Loss rate: 0.00%

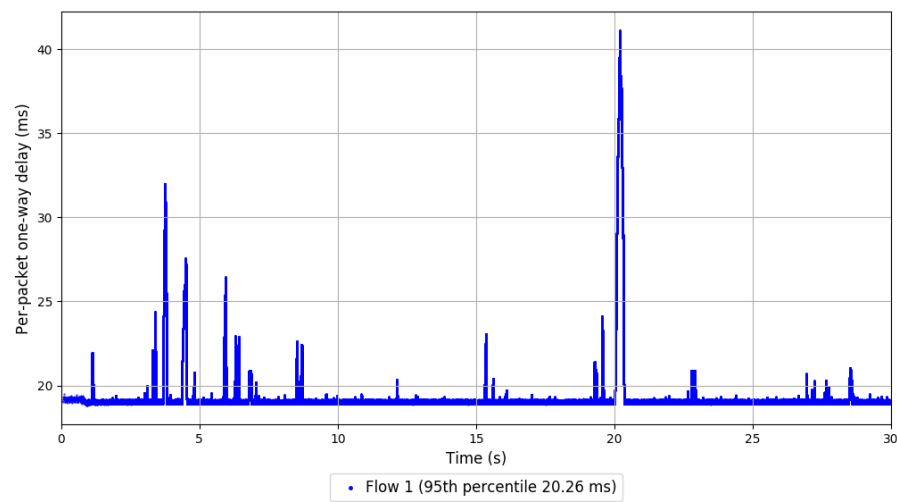
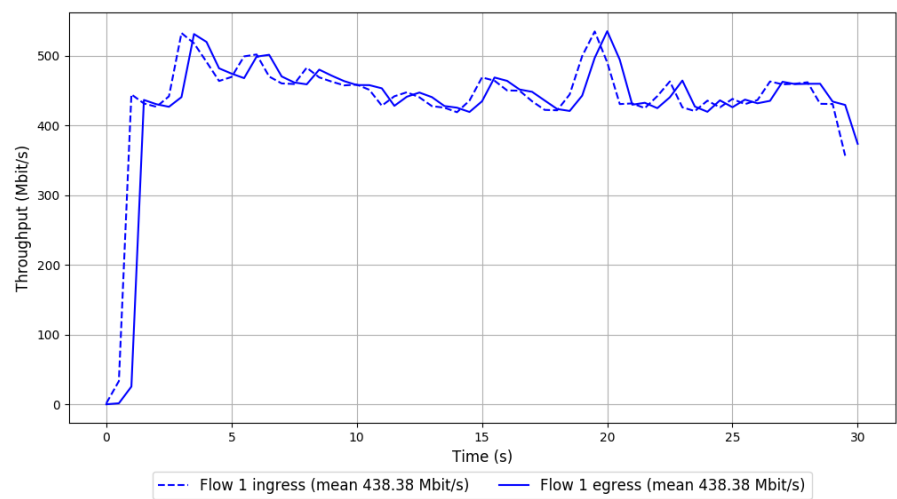
-- Flow 1:

Average throughput: 438.38 Mbit/s

95th percentile per-packet one-way delay: 20.258 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 09:39:11

End at: 2018-05-30 09:39:41

Local clock offset: 0.459 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-05-30 14:14:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 451.32 Mbit/s

95th percentile per-packet one-way delay: 22.561 ms

Loss rate: 0.00%

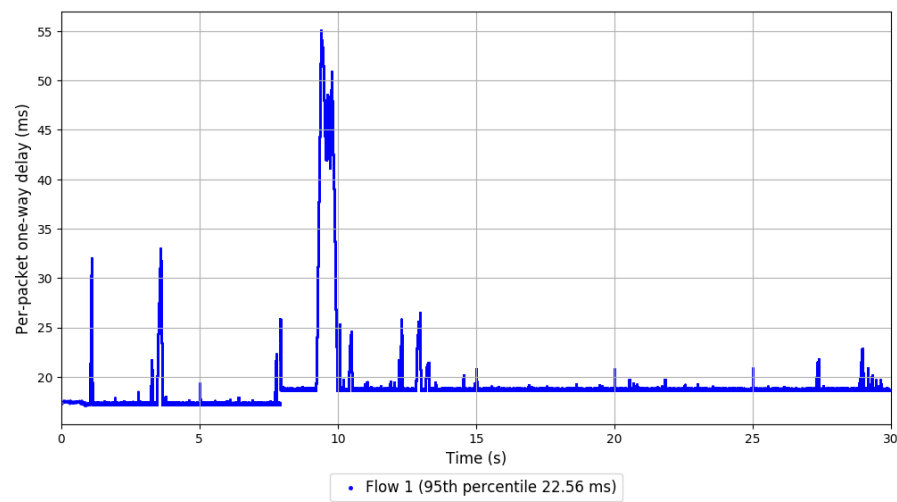
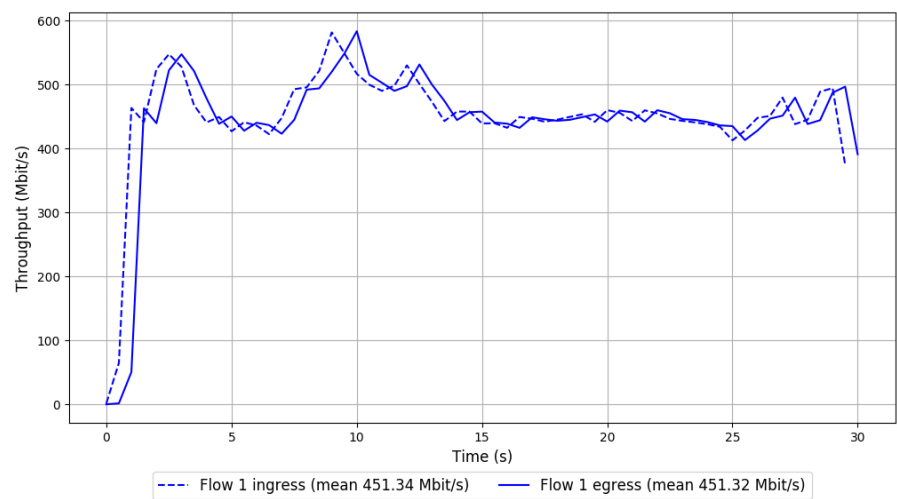
-- Flow 1:

Average throughput: 451.32 Mbit/s

95th percentile per-packet one-way delay: 22.561 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



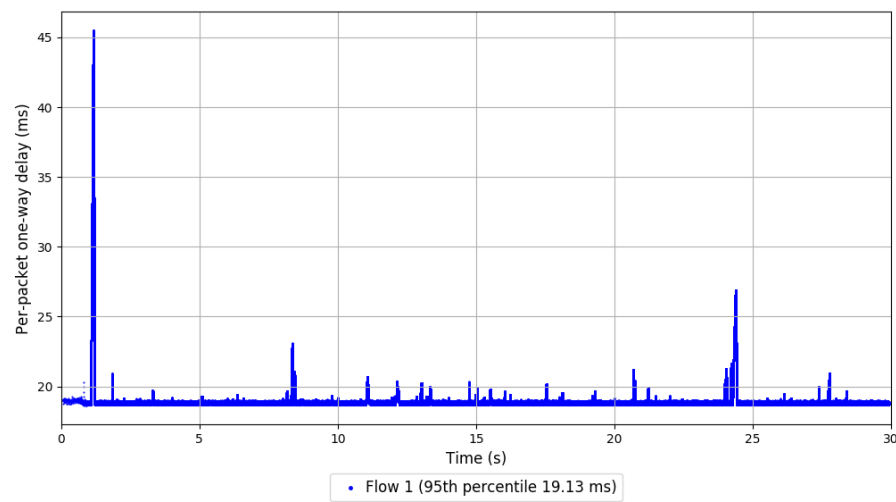
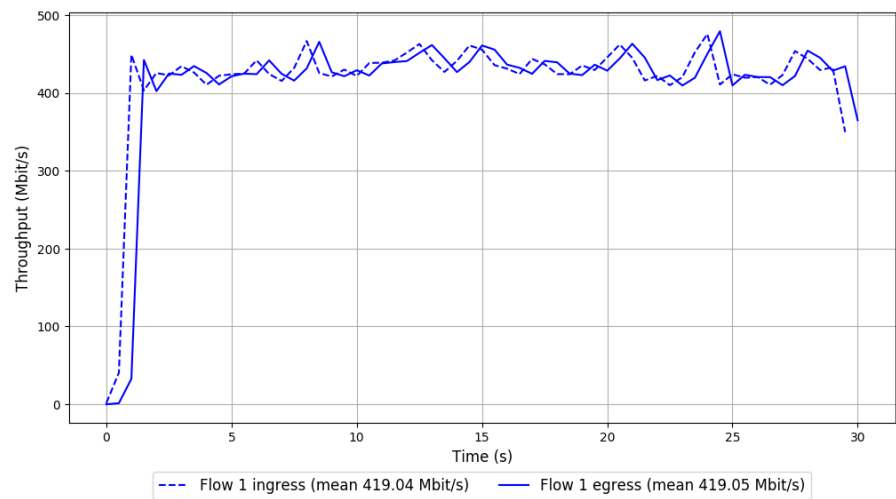
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 10:03:19  
End at: 2018-05-30 10:03:49  
Local clock offset: 0.46 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-05-30 14:14:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 419.05 Mbit/s  
95th percentile per-packet one-way delay: 19.134 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 419.05 Mbit/s  
95th percentile per-packet one-way delay: 19.134 ms  
Loss rate: 0.00%



Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 10:27:15

End at: 2018-05-30 10:27:46

Local clock offset: 0.397 ms

Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-05-30 14:15:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 442.43 Mbit/s

95th percentile per-packet one-way delay: 20.772 ms

Loss rate: 0.00%

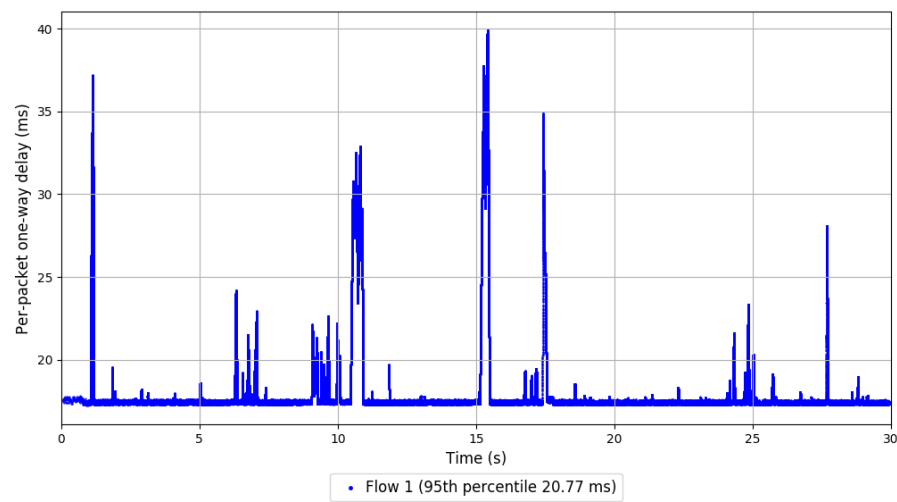
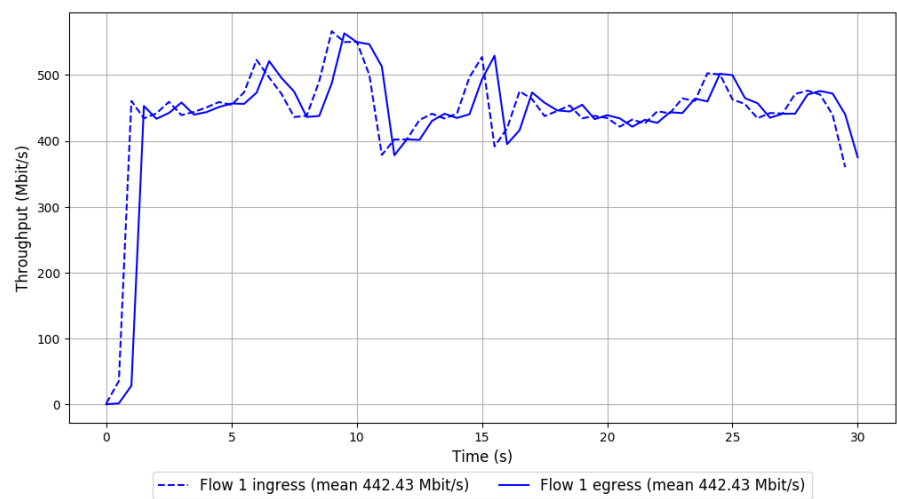
-- Flow 1:

Average throughput: 442.43 Mbit/s

95th percentile per-packet one-way delay: 20.772 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

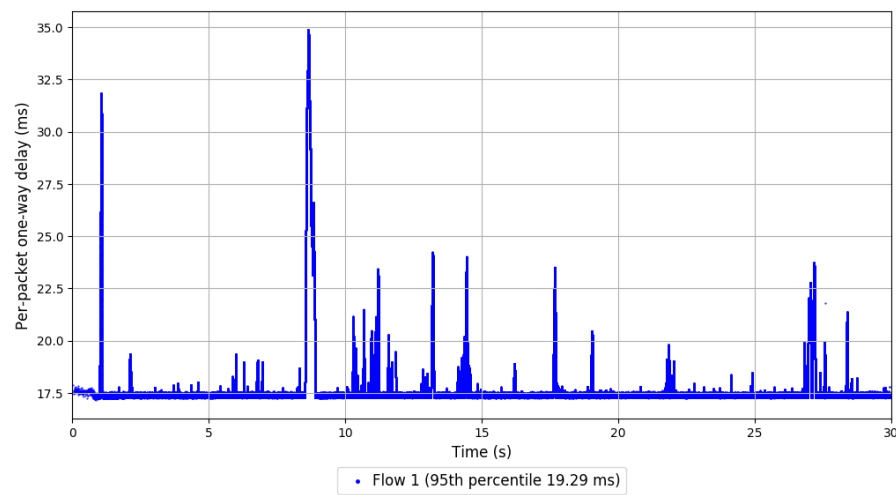
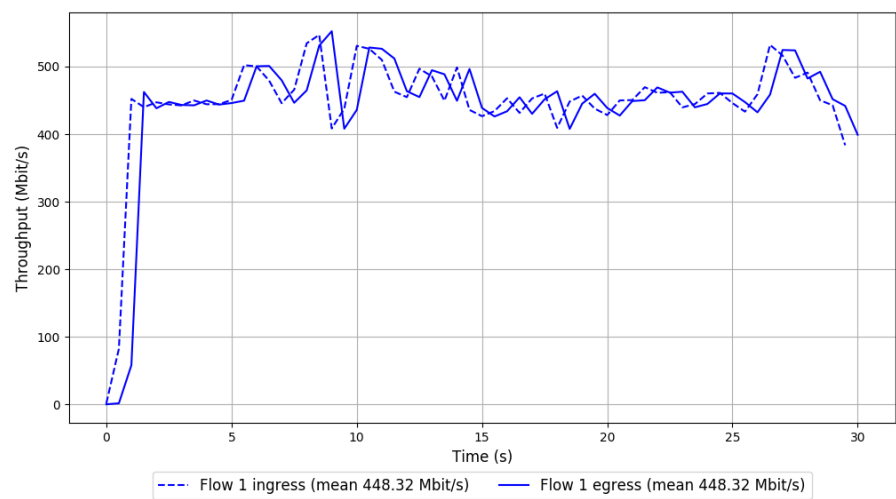


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 10:51:15  
End at: 2018-05-30 10:51:45  
Local clock offset: 0.617 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-05-30 14:15:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 448.32 Mbit/s  
95th percentile per-packet one-way delay: 19.285 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 448.32 Mbit/s  
95th percentile per-packet one-way delay: 19.285 ms  
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

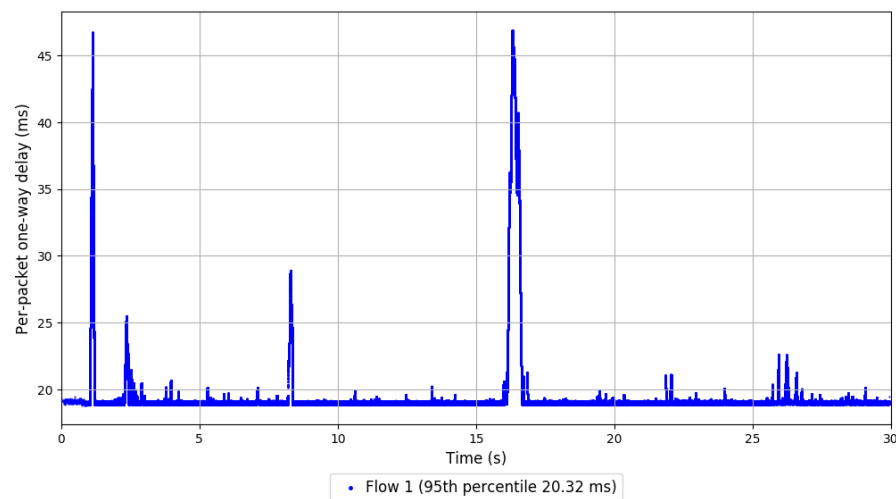
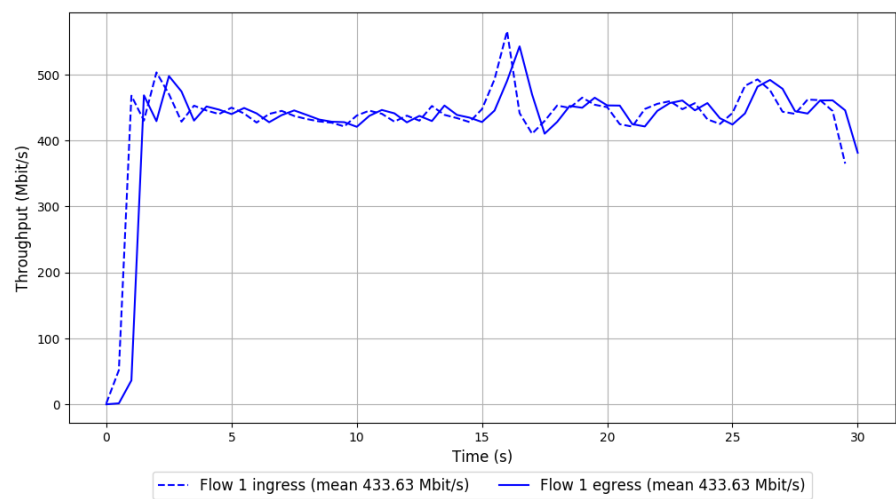


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 11:15:11  
End at: 2018-05-30 11:15:41  
Local clock offset: 0.502 ms  
Remote clock offset: -0.318 ms

# Below is generated by plot.py at 2018-05-30 14:15:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 433.63 Mbit/s  
95th percentile per-packet one-way delay: 20.324 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 433.63 Mbit/s  
95th percentile per-packet one-way delay: 20.324 ms  
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 11:39:06

End at: 2018-05-30 11:39:36

Local clock offset: 0.48 ms

Remote clock offset: -0.825 ms

# Below is generated by plot.py at 2018-05-30 14:16:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 453.84 Mbit/s

95th percentile per-packet one-way delay: 24.428 ms

Loss rate: 0.01%

-- Flow 1:

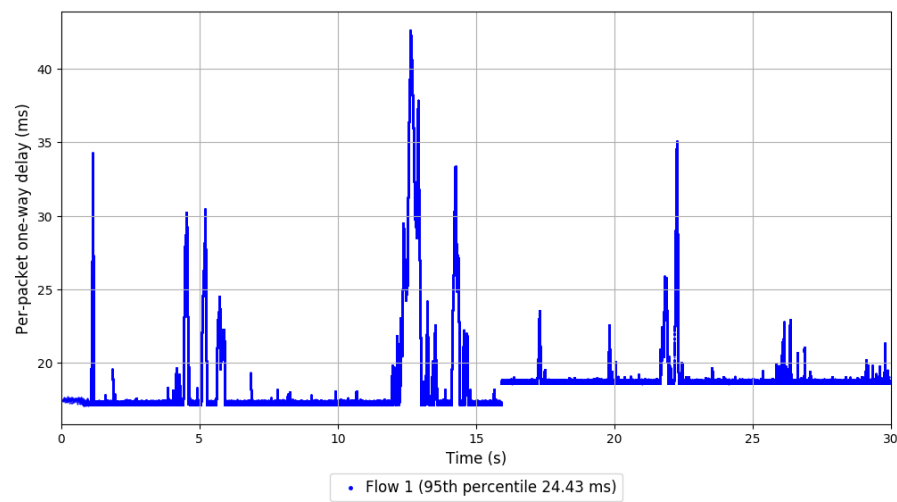
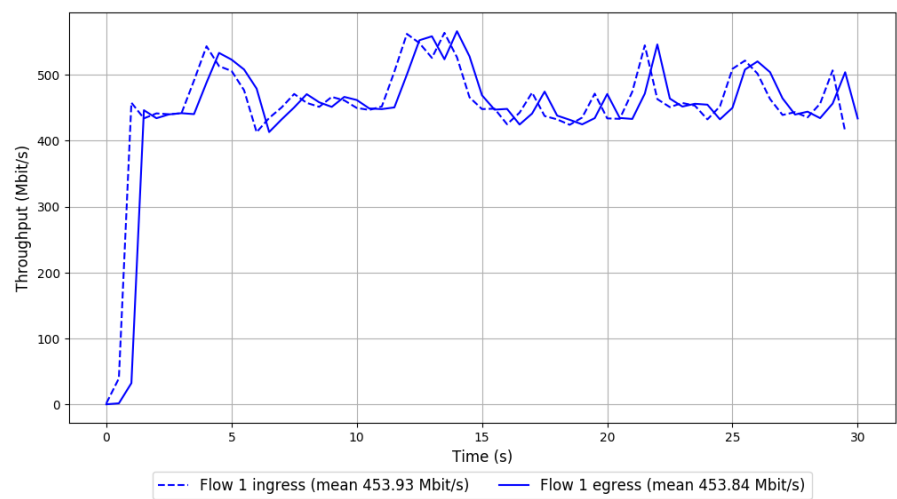
Average throughput: 453.84 Mbit/s

95th percentile per-packet one-way delay: 24.428 ms

Loss rate: 0.01%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 12:02:59

End at: 2018-05-30 12:03:29

Local clock offset: 0.153 ms

Remote clock offset: -1.081 ms

# Below is generated by plot.py at 2018-05-30 14:16:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 438.35 Mbit/s

95th percentile per-packet one-way delay: 20.703 ms

Loss rate: 0.00%

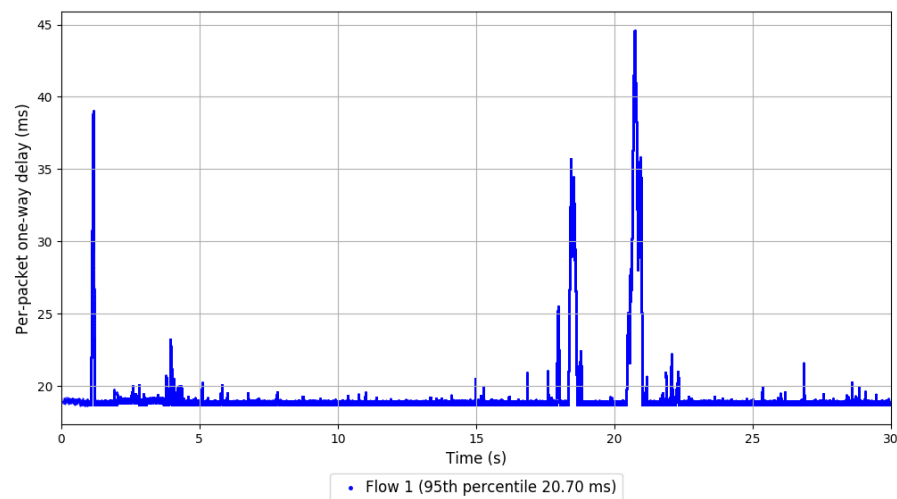
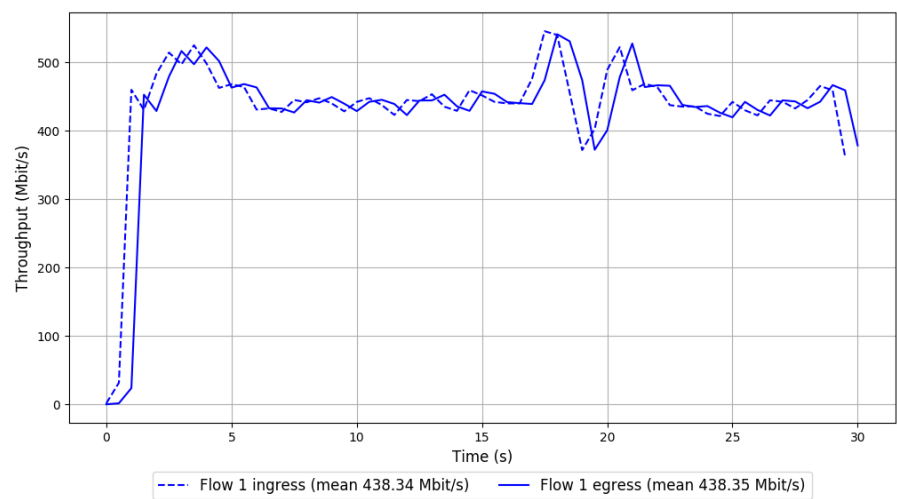
-- Flow 1:

Average throughput: 438.35 Mbit/s

95th percentile per-packet one-way delay: 20.703 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

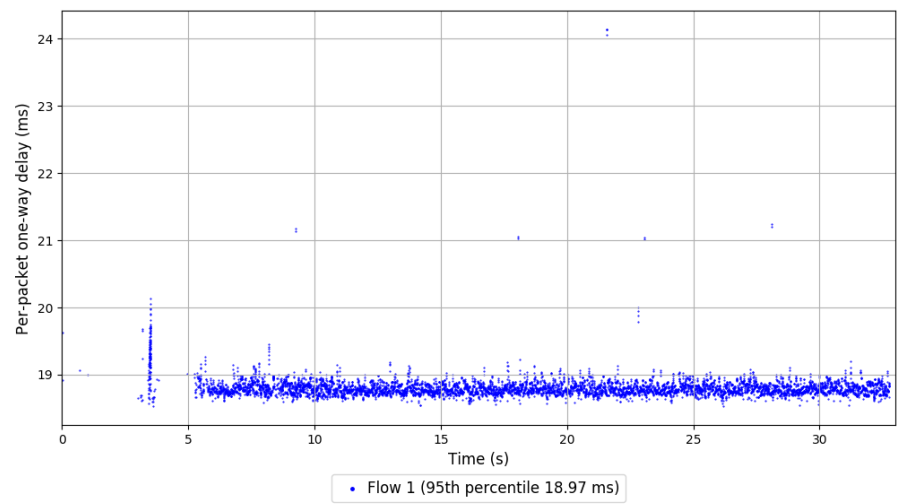
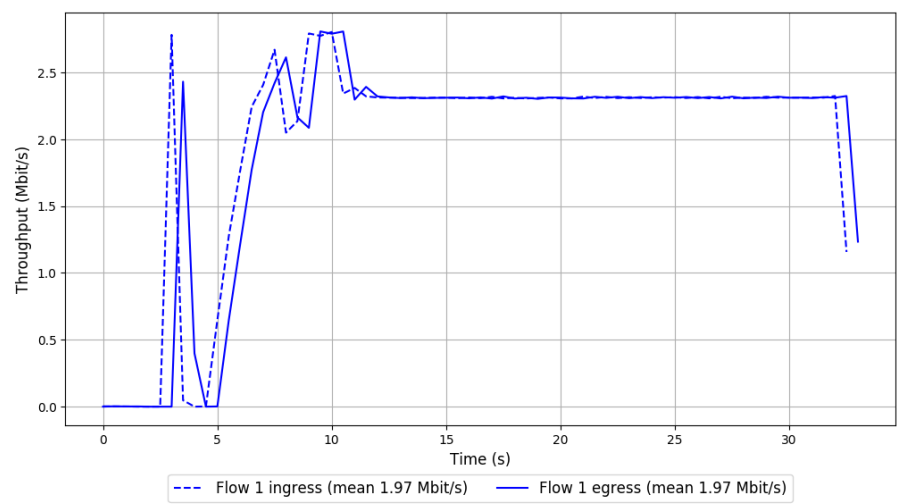


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-30 08:34:41
End at: 2018-05-30 08:35:11
Local clock offset: 0.272 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-05-30 14:16:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 18.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 18.966 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-30 08:58:39

End at: 2018-05-30 08:59:10

Local clock offset: 0.179 ms

Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-05-30 14:16:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.383 ms

Loss rate: 0.00%

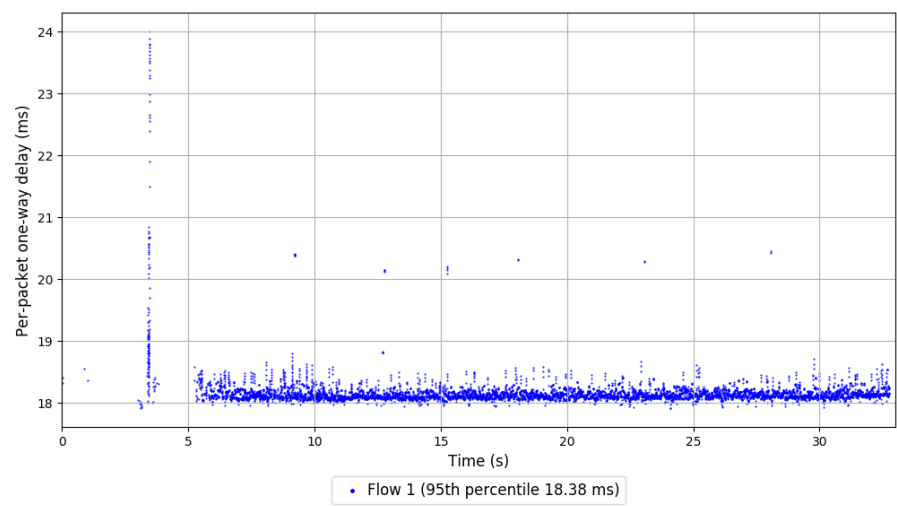
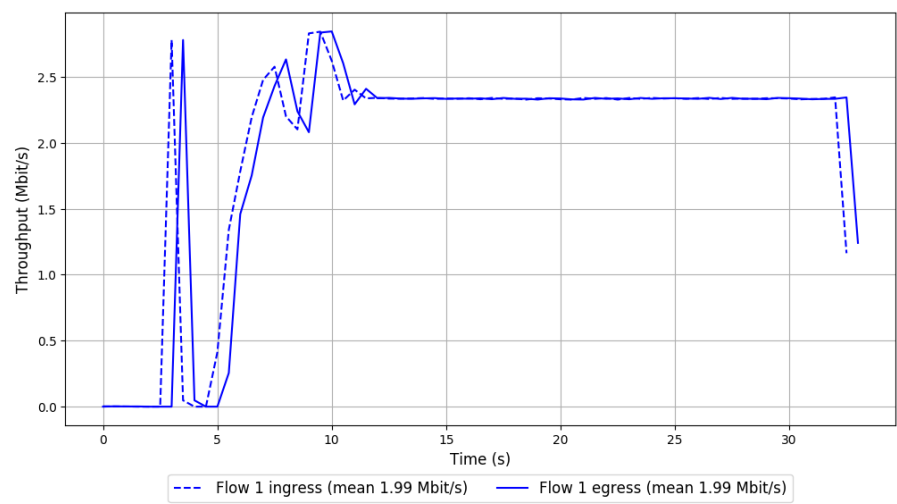
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.383 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



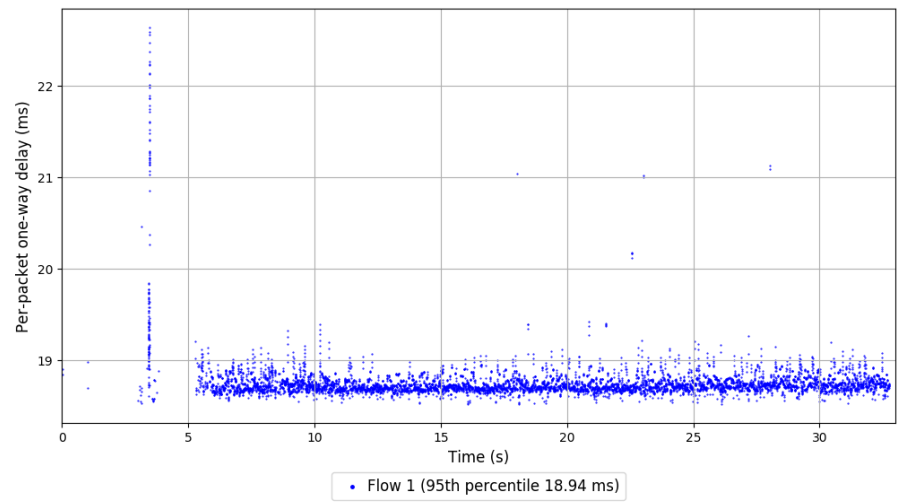
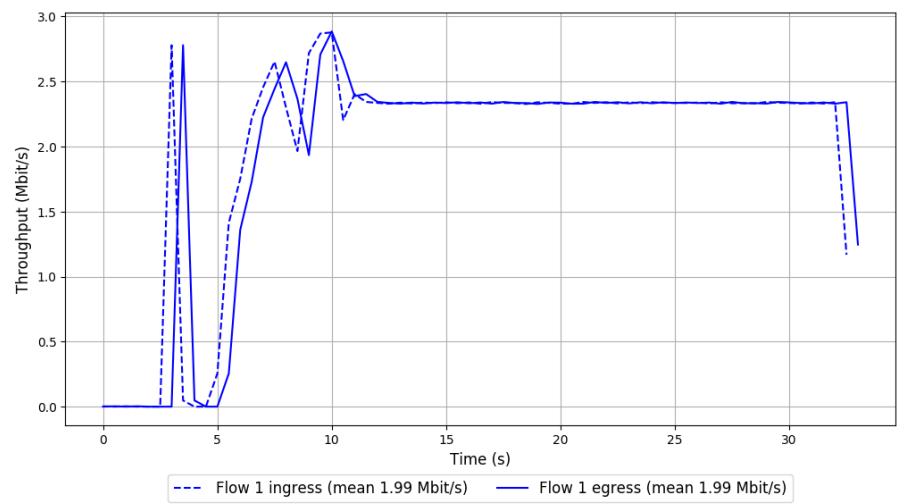
Run 3: Statistics of WebRTC media

Start at: 2018-05-30 09:22:40  
End at: 2018-05-30 09:23:10  
Local clock offset: 0.236 ms  
Remote clock offset: -0.257 ms

# Below is generated by plot.py at 2018-05-30 14:16:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 18.943 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 18.943 ms  
Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link

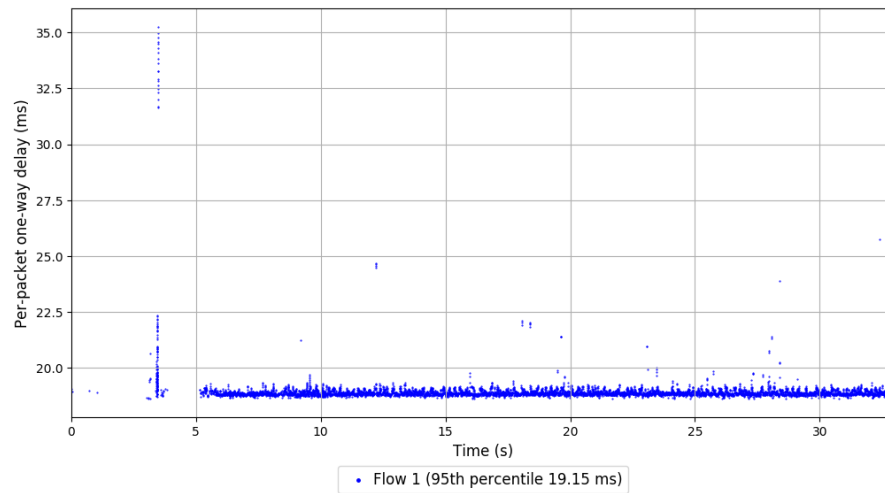
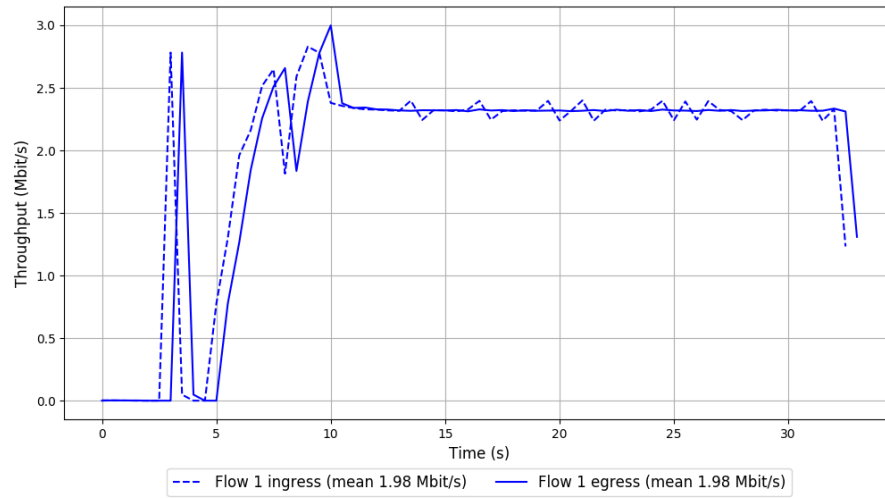


Run 4: Statistics of WebRTC media

Start at: 2018-05-30 09:46:55  
End at: 2018-05-30 09:47:25  
Local clock offset: 0.47 ms  
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2018-05-30 14:16:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.98 Mbit/s  
95th percentile per-packet one-way delay: 19.153 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.98 Mbit/s  
95th percentile per-packet one-way delay: 19.153 ms  
Loss rate: 0.00%

#### Run 4: Report of WebRTC media — Data Link

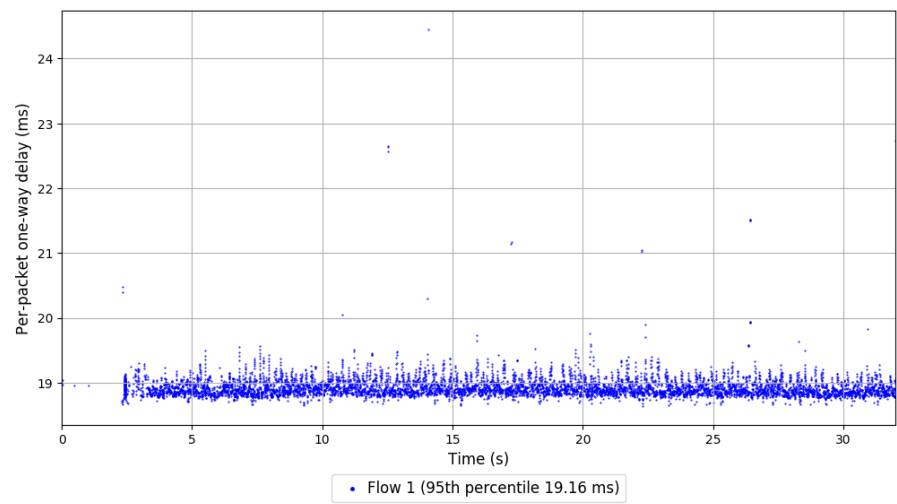
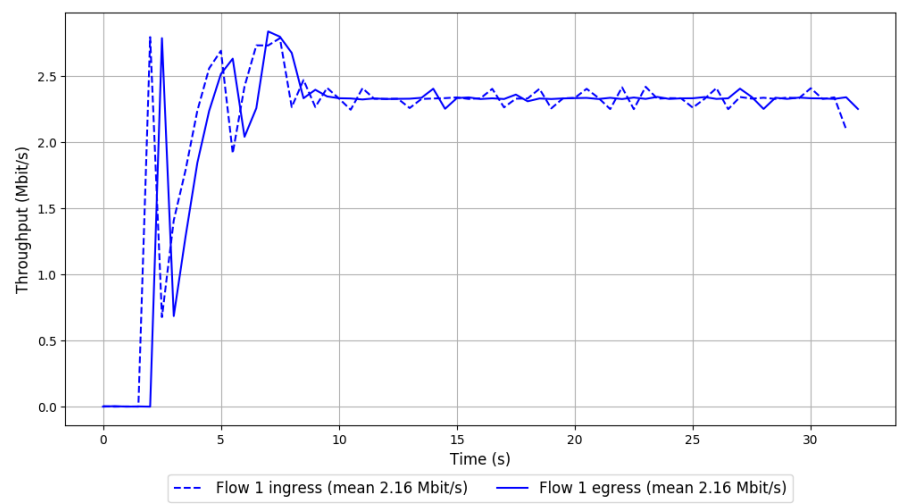


Run 5: Statistics of WebRTC media

Start at: 2018-05-30 10:10:52  
End at: 2018-05-30 10:11:22  
Local clock offset: 0.474 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-05-30 14:16:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.16 Mbit/s  
95th percentile per-packet one-way delay: 19.164 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.16 Mbit/s  
95th percentile per-packet one-way delay: 19.164 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-30 10:34:55

End at: 2018-05-30 10:35:26

Local clock offset: 0.502 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-05-30 14:16:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 18.504 ms

Loss rate: 0.03%

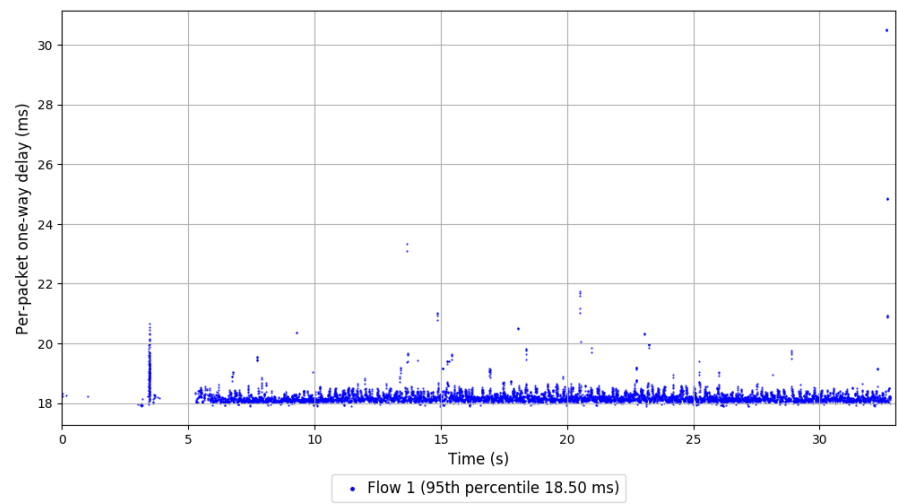
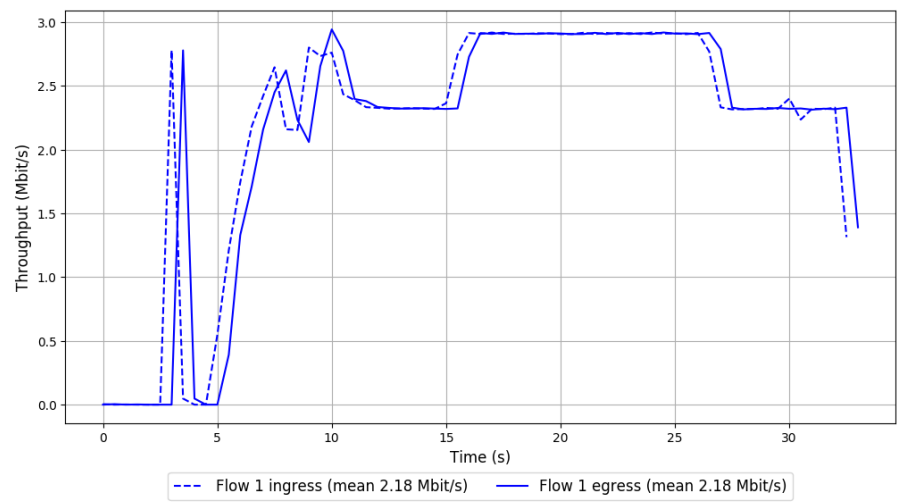
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 18.504 ms

Loss rate: 0.03%

Run 6: Report of WebRTC media — Data Link



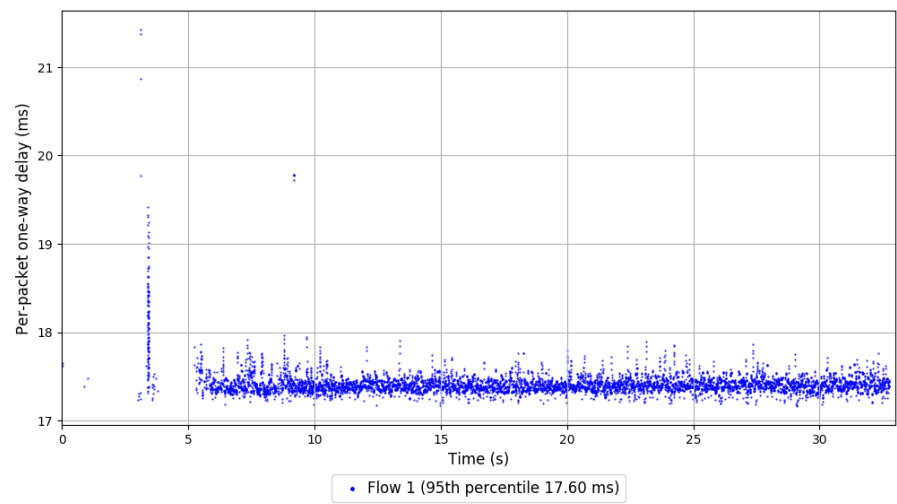
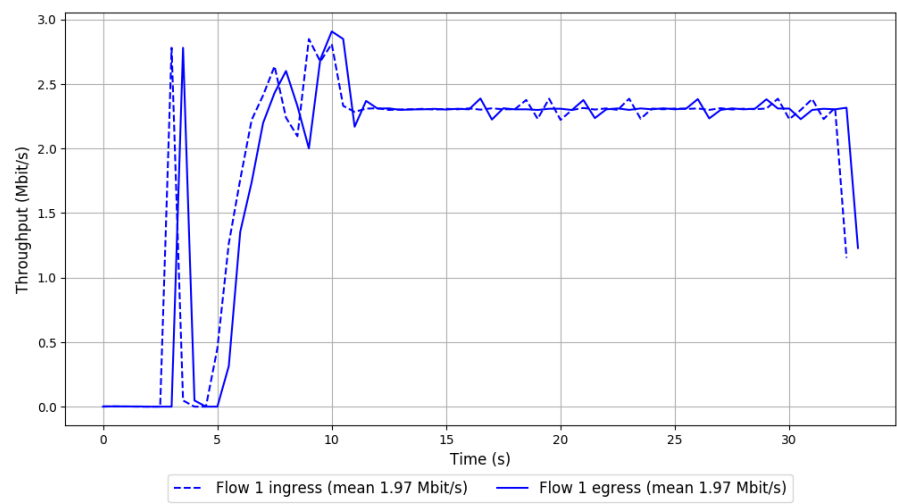
Run 7: Statistics of WebRTC media

Start at: 2018-05-30 10:58:53  
End at: 2018-05-30 10:59:23  
Local clock offset: 0.449 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-05-30 14:16:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.97 Mbit/s  
95th percentile per-packet one-way delay: 17.600 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.97 Mbit/s  
95th percentile per-packet one-way delay: 17.600 ms  
Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link

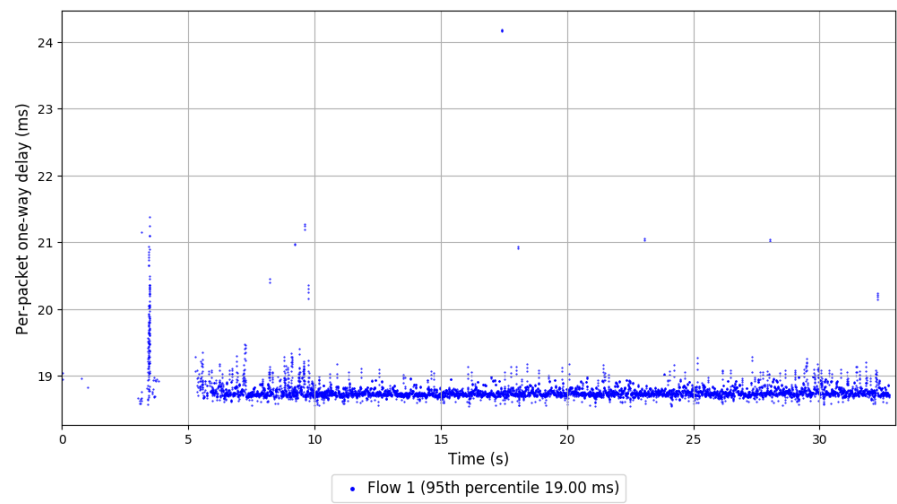
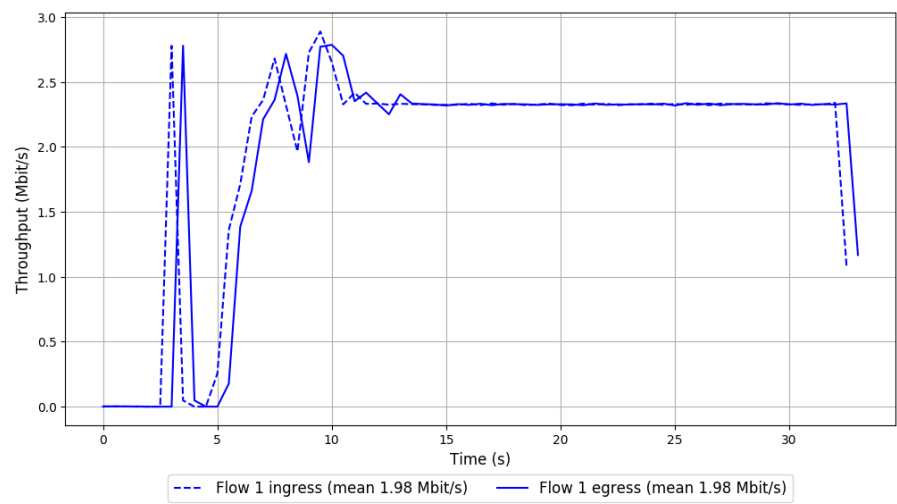


Run 8: Statistics of WebRTC media

Start at: 2018-05-30 11:22:45  
End at: 2018-05-30 11:23:15  
Local clock offset: 0.55 ms  
Remote clock offset: -0.514 ms

# Below is generated by plot.py at 2018-05-30 14:16:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.98 Mbit/s  
95th percentile per-packet one-way delay: 19.004 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.98 Mbit/s  
95th percentile per-packet one-way delay: 19.004 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

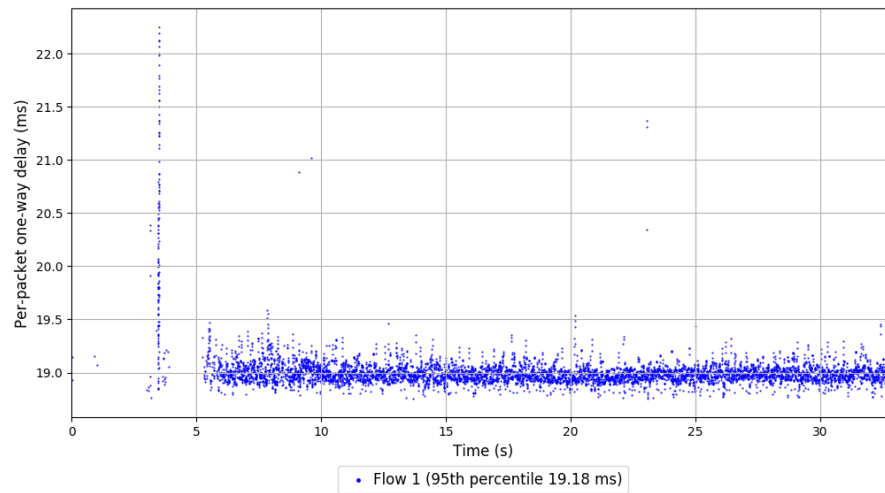
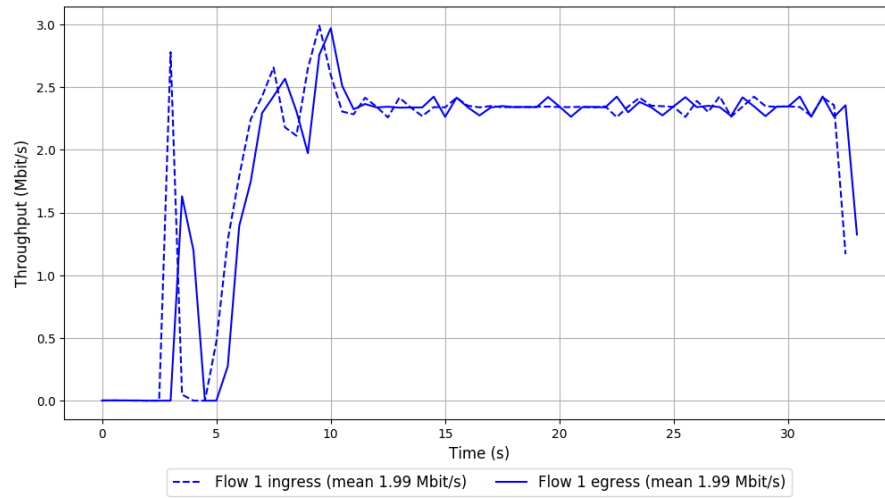


Run 9: Statistics of WebRTC media

Start at: 2018-05-30 11:46:42  
End at: 2018-05-30 11:47:12  
Local clock offset: 0.498 ms  
Remote clock offset: -0.889 ms

# Below is generated by plot.py at 2018-05-30 14:16:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 19.178 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 19.178 ms  
Loss rate: 0.00%

### Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-30 12:10:38  
End at: 2018-05-30 12:11:08  
Local clock offset: 0.07 ms  
Remote clock offset: -1.231 ms

# Below is generated by plot.py at 2018-05-30 14:16:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 19.268 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 19.268 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

