

## Pantheon Report

Generated at 2018-06-18 14:35:39 (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.

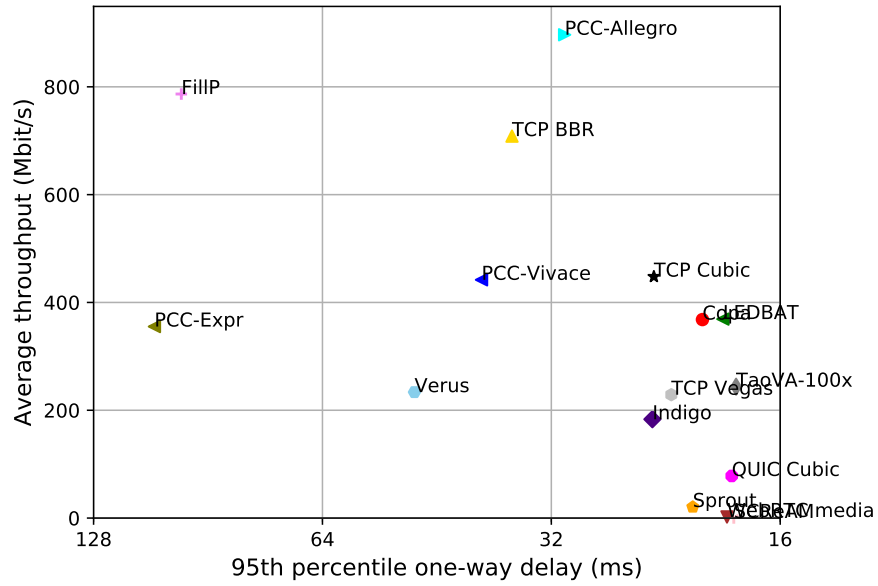
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

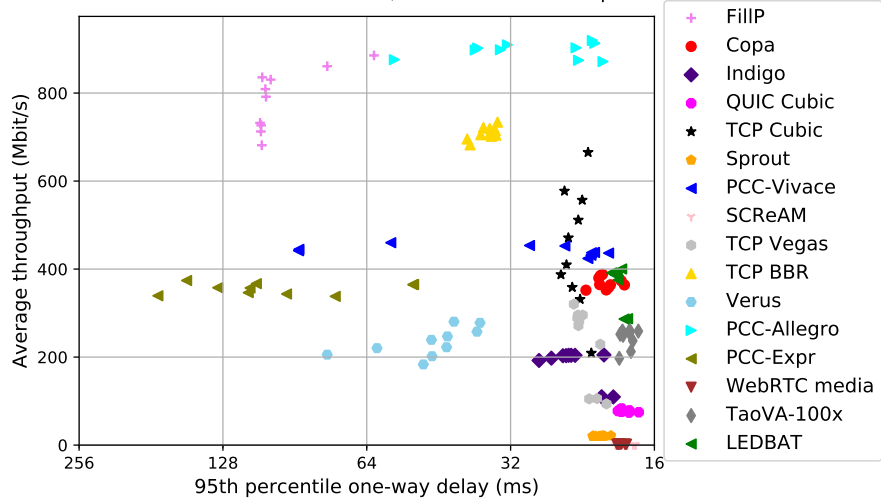
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
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     | 708.60                           | 36.05                               | 0.26                         |
| Copa         | 10     | 368.22                           | 20.25                               | 0.00                         |
| TCP Cubic    | 10     | 447.85                           | 23.46                               | 0.05                         |
| FillP        | 10     | 786.65                           | 98.13                               | 4.28                         |
| Indigo       | 10     | 183.28                           | 23.56                               | 0.01                         |
| LEDBAT       | 10     | 369.14                           | 19.03                               | 0.00                         |
| PCC-Allegro  | 10     | 896.56                           | 30.73                               | 0.41                         |
| PCC-Expr     | 10     | 355.29                           | 106.47                              | 0.39                         |
| QUIC Cubic   | 10     | 78.13                            | 18.53                               | 0.00                         |
| SReAM        | 10     | 0.22                             | 18.41                               | 0.00                         |
| Sprout       | 10     | 20.53                            | 20.85                               | 0.01                         |
| TaoVA-100x   | 10     | 243.74                           | 18.29                               | 0.00                         |
| TCP Vegas    | 10     | 228.82                           | 22.25                               | 0.04                         |
| Verus        | 10     | 233.64                           | 48.44                               | 15.58                        |
| PCC-Vivace   | 10     | 441.97                           | 39.54                               | 0.13                         |
| WebRTC media | 10     | 2.03                             | 18.80                               | 0.00                         |

Run 1: Statistics of TCP BBR

Start at: 2018-06-18 08:53:26

End at: 2018-06-18 08:53:56

Local clock offset: 2.721 ms

Remote clock offset: 1.902 ms

# Below is generated by plot.py at 2018-06-18 13:07:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 695.65 Mbit/s

95th percentile per-packet one-way delay: 39.440 ms

Loss rate: 0.15%

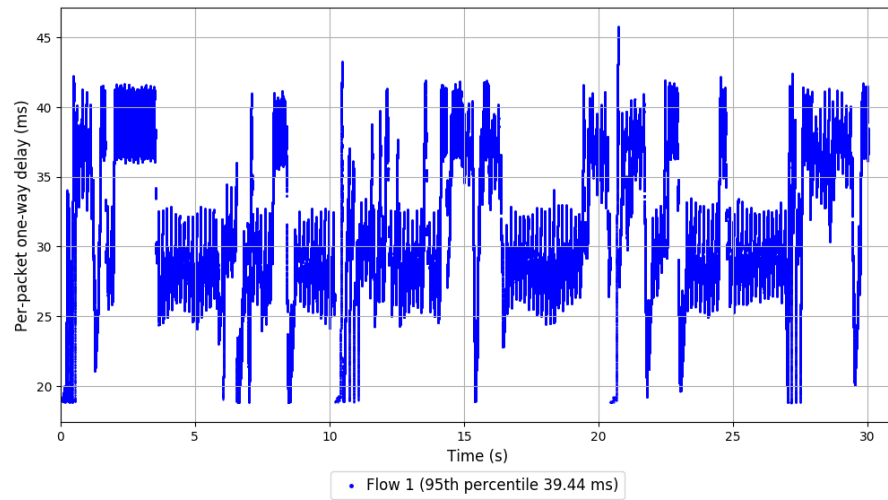
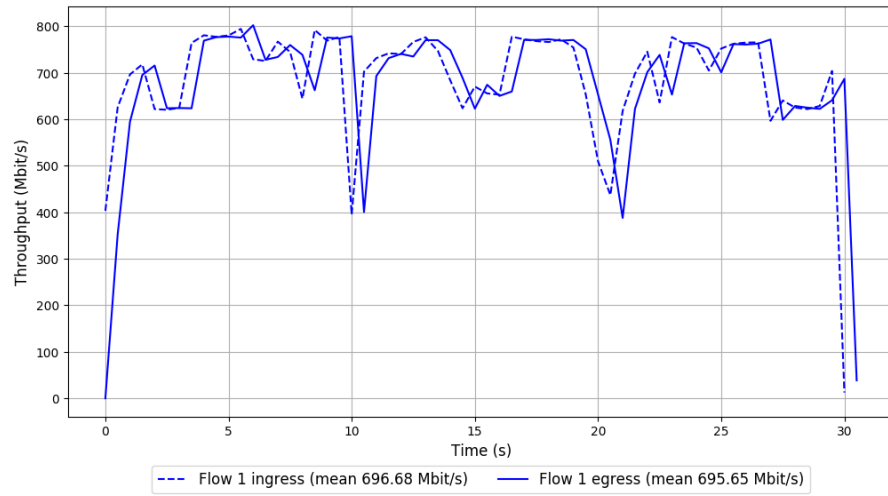
-- Flow 1:

Average throughput: 695.65 Mbit/s

95th percentile per-packet one-way delay: 39.440 ms

Loss rate: 0.15%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-18 09:17:32

End at: 2018-06-18 09:18:02

Local clock offset: 3.278 ms

Remote clock offset: 4.609 ms

# Below is generated by plot.py at 2018-06-18 13:07:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 682.34 Mbit/s

95th percentile per-packet one-way delay: 38.894 ms

Loss rate: 0.17%

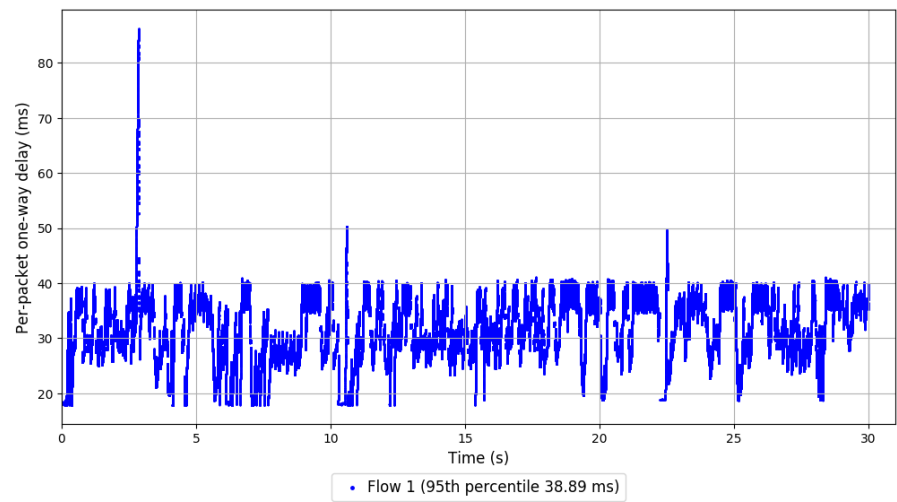
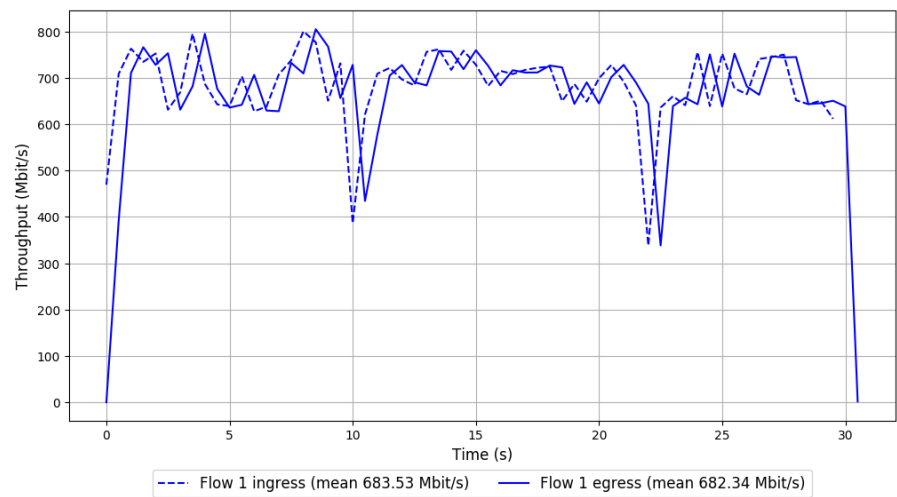
-- Flow 1:

Average throughput: 682.34 Mbit/s

95th percentile per-packet one-way delay: 38.894 ms

Loss rate: 0.17%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-18 09:41:38

End at: 2018-06-18 09:42:08

Local clock offset: 3.365 ms

Remote clock offset: 6.218 ms

# Below is generated by plot.py at 2018-06-18 13:07:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 721.74 Mbit/s

95th percentile per-packet one-way delay: 36.474 ms

Loss rate: 0.21%

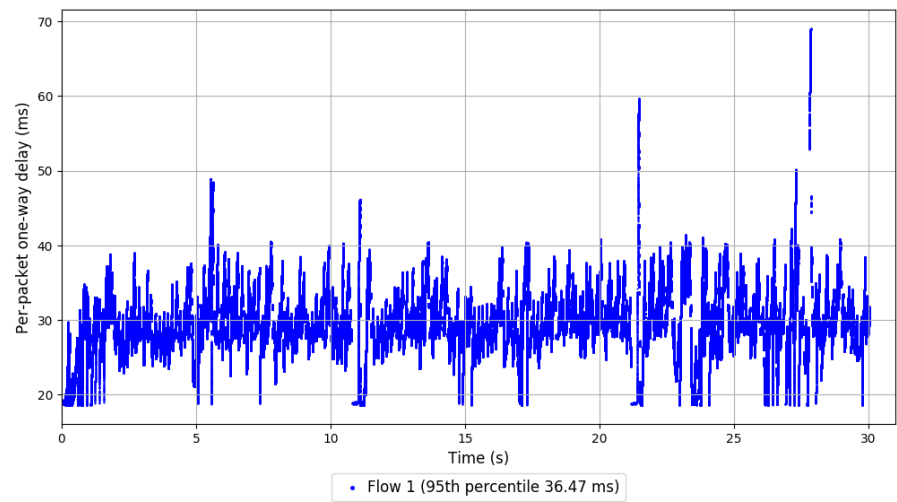
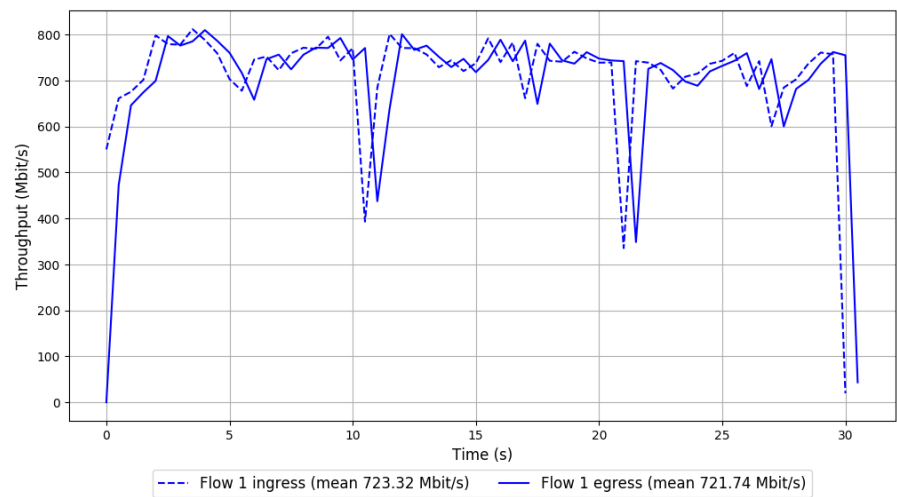
-- Flow 1:

Average throughput: 721.74 Mbit/s

95th percentile per-packet one-way delay: 36.474 ms

Loss rate: 0.21%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-18 10:05:49

End at: 2018-06-18 10:06:19

Local clock offset: 3.577 ms

Remote clock offset: 0.766 ms

# Below is generated by plot.py at 2018-06-18 13:07:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 705.35 Mbit/s

95th percentile per-packet one-way delay: 36.943 ms

Loss rate: 0.29%

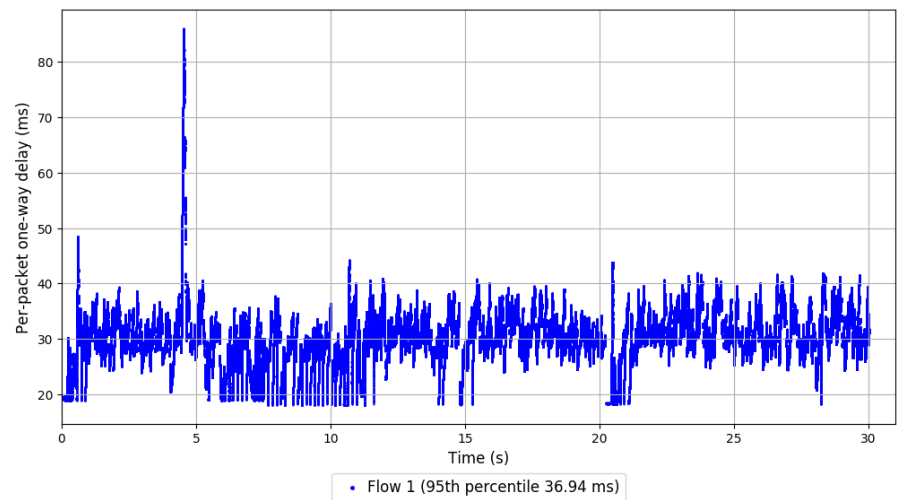
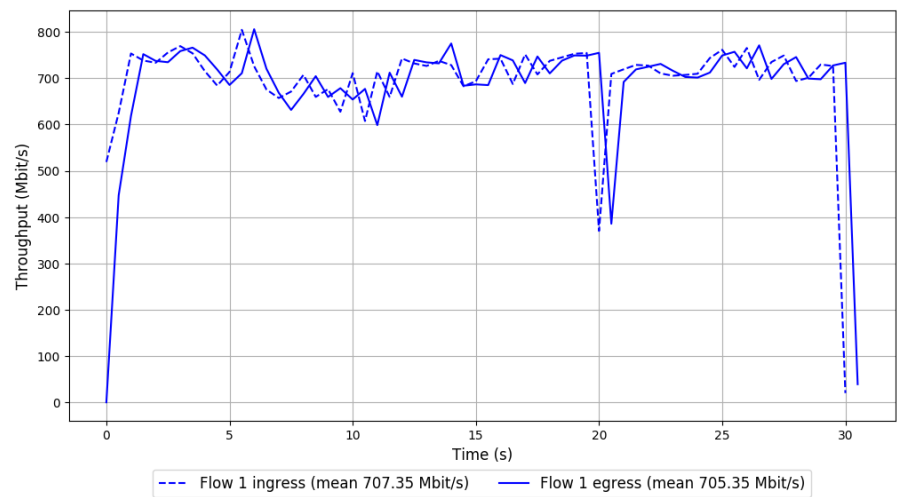
-- Flow 1:

Average throughput: 705.35 Mbit/s

95th percentile per-packet one-way delay: 36.943 ms

Loss rate: 0.29%

Run 4: Report of TCP BBR — Data Link

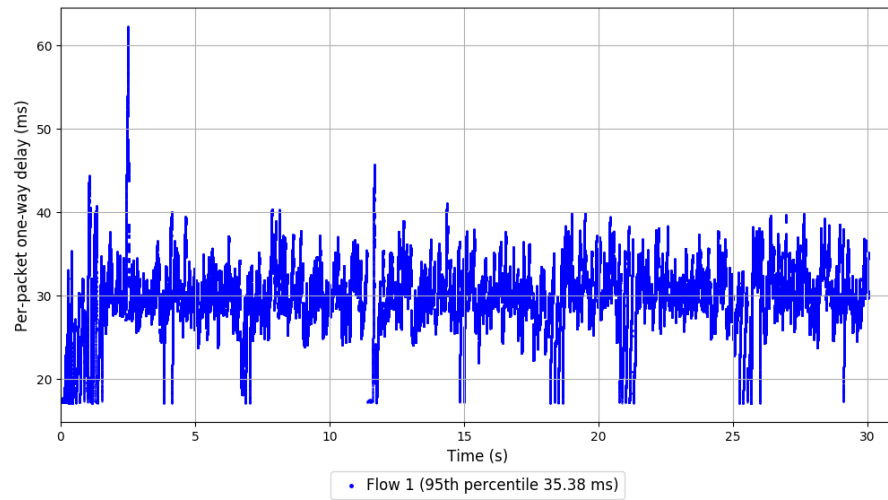
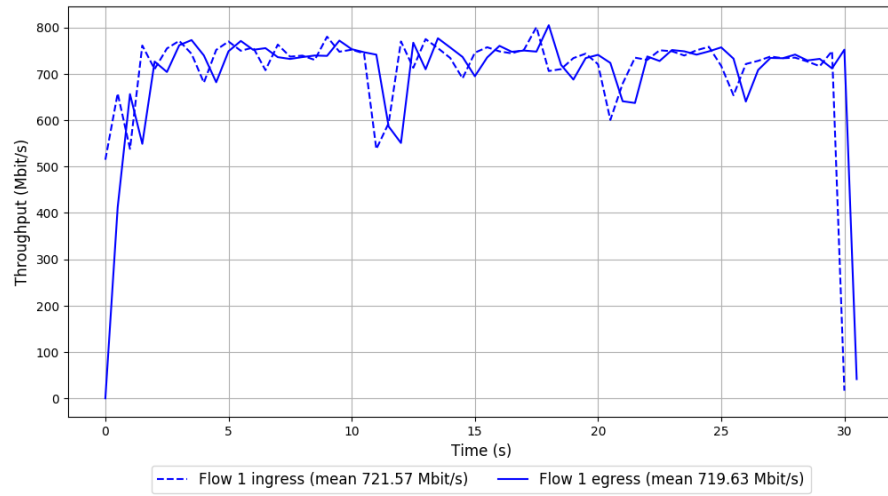


Run 5: Statistics of TCP BBR

Start at: 2018-06-18 10:29:59  
End at: 2018-06-18 10:30:29  
Local clock offset: 4.219 ms  
Remote clock offset: -1.692 ms

# Below is generated by plot.py at 2018-06-18 13:07:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 719.63 Mbit/s  
95th percentile per-packet one-way delay: 35.383 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 719.63 Mbit/s  
95th percentile per-packet one-way delay: 35.383 ms  
Loss rate: 0.27%

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

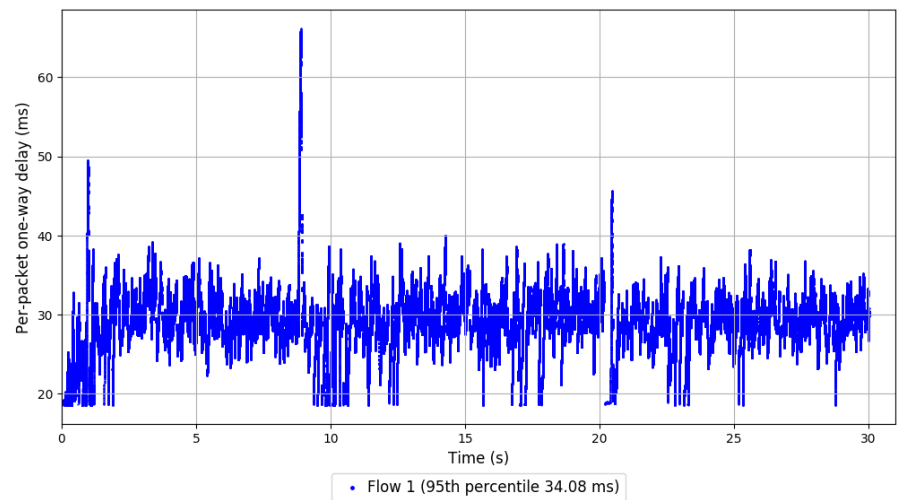
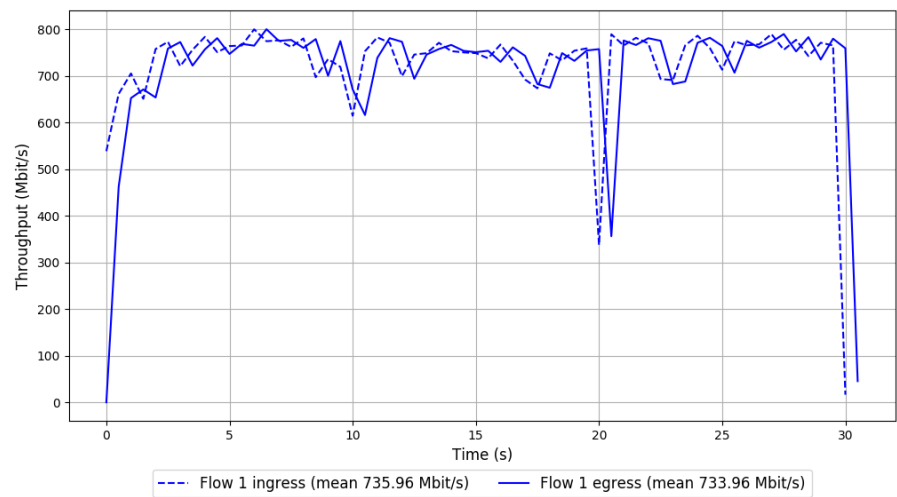


Run 6: Statistics of TCP BBR

Start at: 2018-06-18 10:54:02  
End at: 2018-06-18 10:54:32  
Local clock offset: 3.552 ms  
Remote clock offset: -1.184 ms

# Below is generated by plot.py at 2018-06-18 13:08:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 733.96 Mbit/s  
95th percentile per-packet one-way delay: 34.077 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 733.96 Mbit/s  
95th percentile per-packet one-way delay: 34.077 ms  
Loss rate: 0.27%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

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

End at: 2018-06-18 11:18:42

Local clock offset: 3.525 ms

Remote clock offset: 3.314 ms

# Below is generated by plot.py at 2018-06-18 13:08:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 704.31 Mbit/s

95th percentile per-packet one-way delay: 34.346 ms

Loss rate: 0.30%

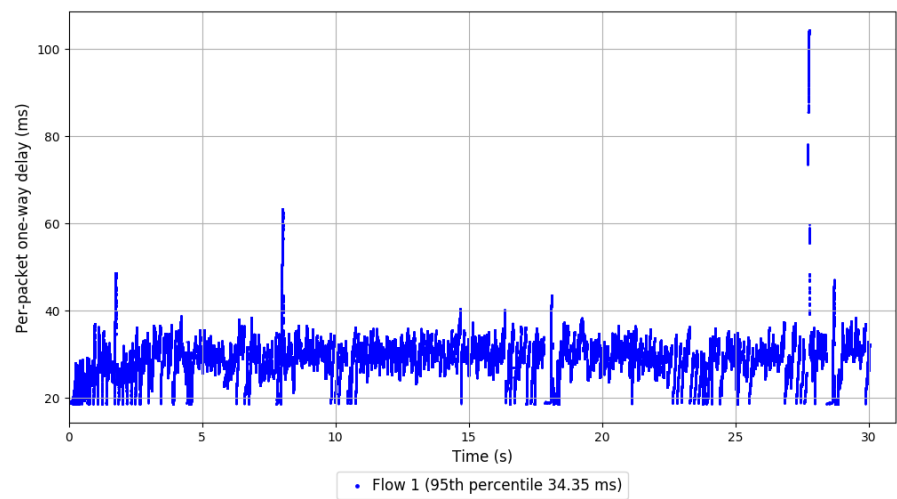
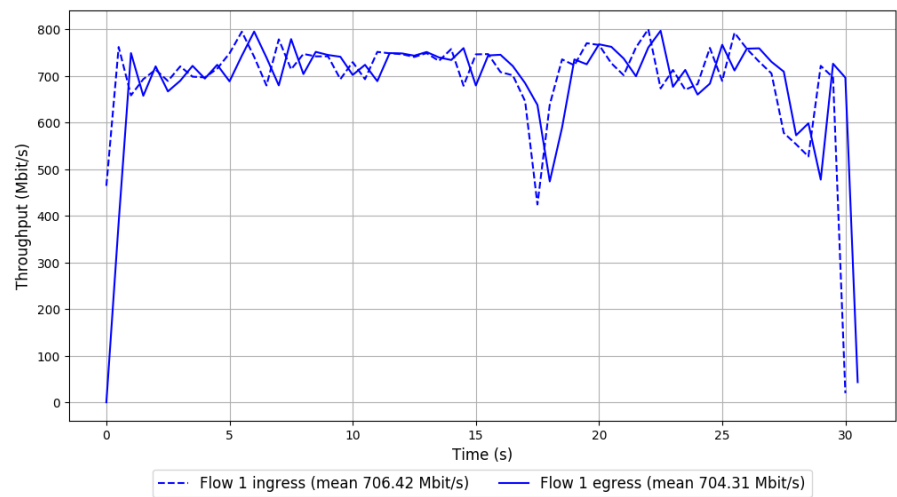
-- Flow 1:

Average throughput: 704.31 Mbit/s

95th percentile per-packet one-way delay: 34.346 ms

Loss rate: 0.30%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-18 11:42:08

End at: 2018-06-18 11:42:38

Local clock offset: 3.644 ms

Remote clock offset: 3.909 ms

# Below is generated by plot.py at 2018-06-18 13:08:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 701.82 Mbit/s

95th percentile per-packet one-way delay: 35.074 ms

Loss rate: 0.31%

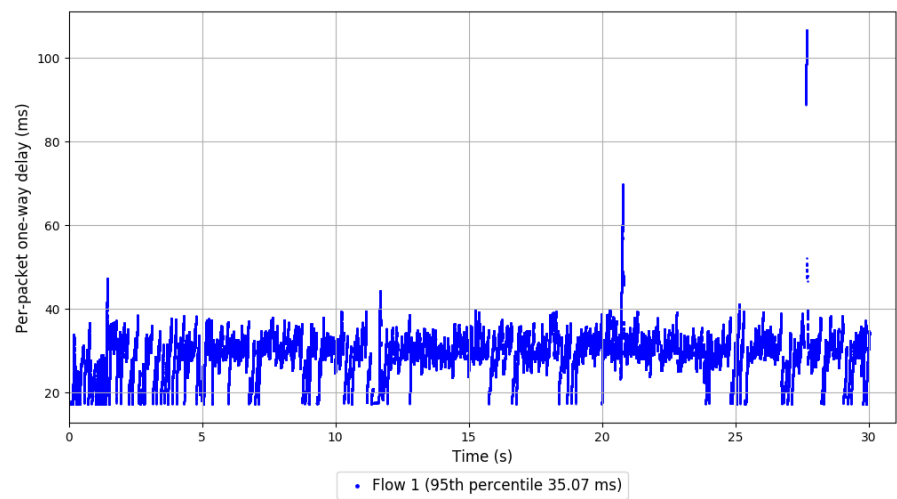
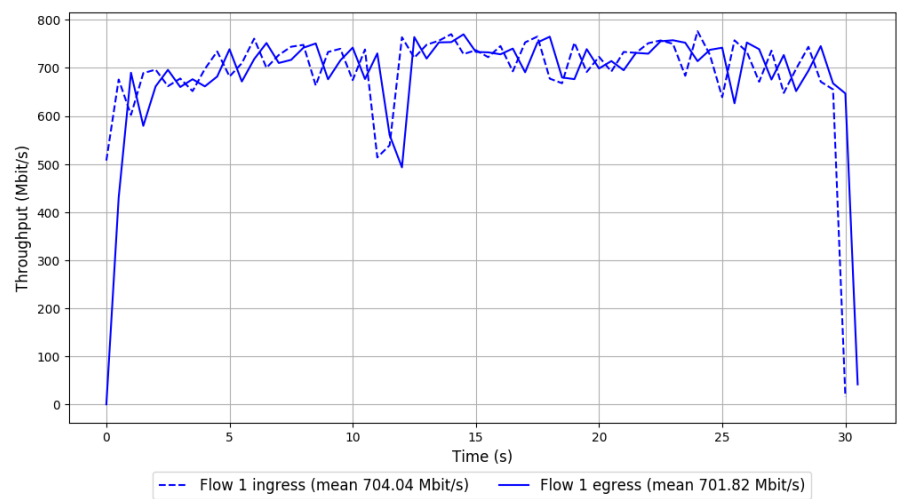
-- Flow 1:

Average throughput: 701.82 Mbit/s

95th percentile per-packet one-way delay: 35.074 ms

Loss rate: 0.31%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-18 12:05:48

End at: 2018-06-18 12:06:18

Local clock offset: 3.625 ms

Remote clock offset: 3.572 ms

# Below is generated by plot.py at 2018-06-18 13:15:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 715.05 Mbit/s

95th percentile per-packet one-way delay: 34.451 ms

Loss rate: 0.36%

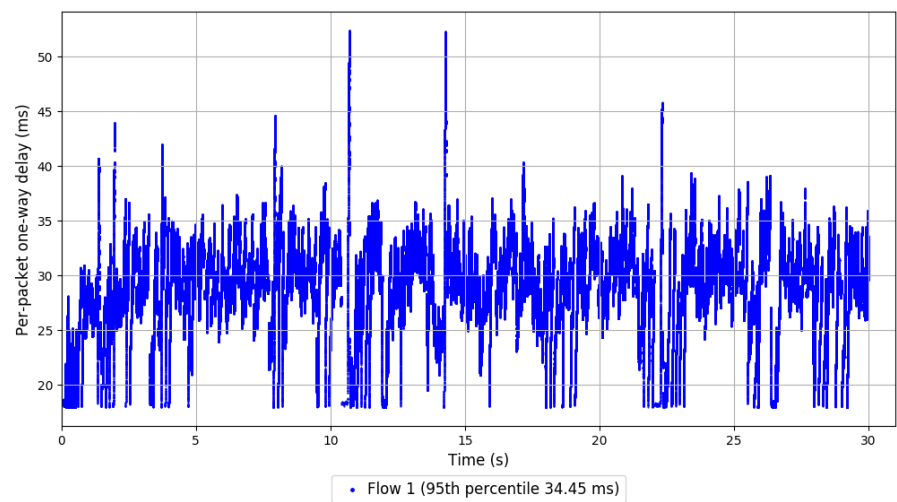
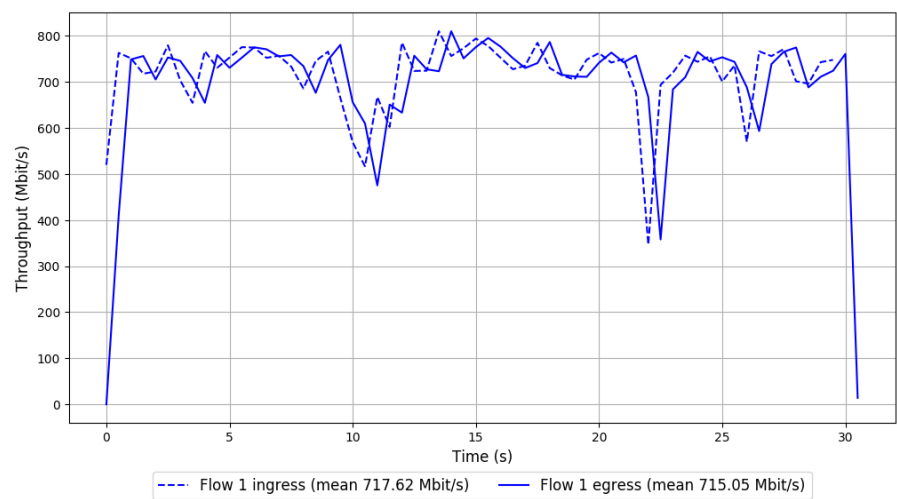
-- Flow 1:

Average throughput: 715.05 Mbit/s

95th percentile per-packet one-way delay: 34.451 ms

Loss rate: 0.36%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-18 12:29:49

End at: 2018-06-18 12:30:19

Local clock offset: 3.677 ms

Remote clock offset: 2.409 ms

# Below is generated by plot.py at 2018-06-18 13:15:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 706.12 Mbit/s

95th percentile per-packet one-way delay: 35.398 ms

Loss rate: 0.28%

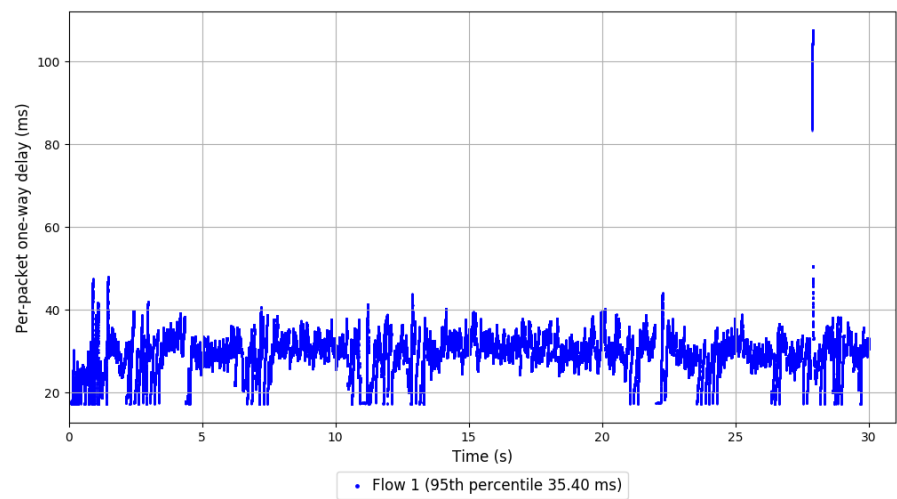
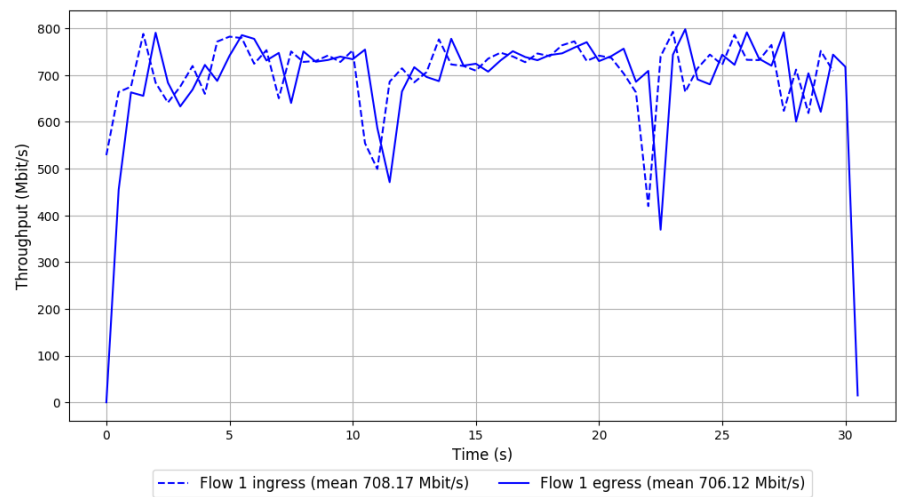
-- Flow 1:

Average throughput: 706.12 Mbit/s

95th percentile per-packet one-way delay: 35.398 ms

Loss rate: 0.28%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-18 09:08:41

End at: 2018-06-18 09:09:11

Local clock offset: 2.977 ms

Remote clock offset: 3.949 ms

# Below is generated by plot.py at 2018-06-18 13:15:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 352.65 Mbit/s

95th percentile per-packet one-way delay: 20.182 ms

Loss rate: 0.00%

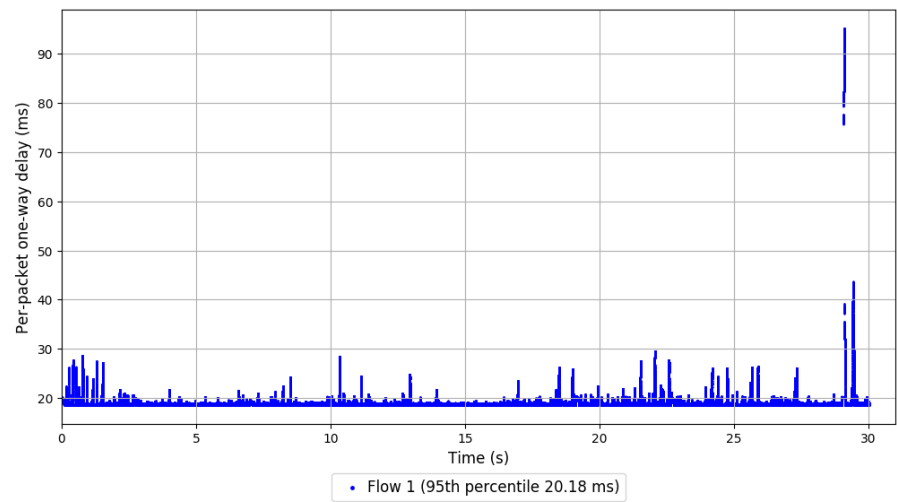
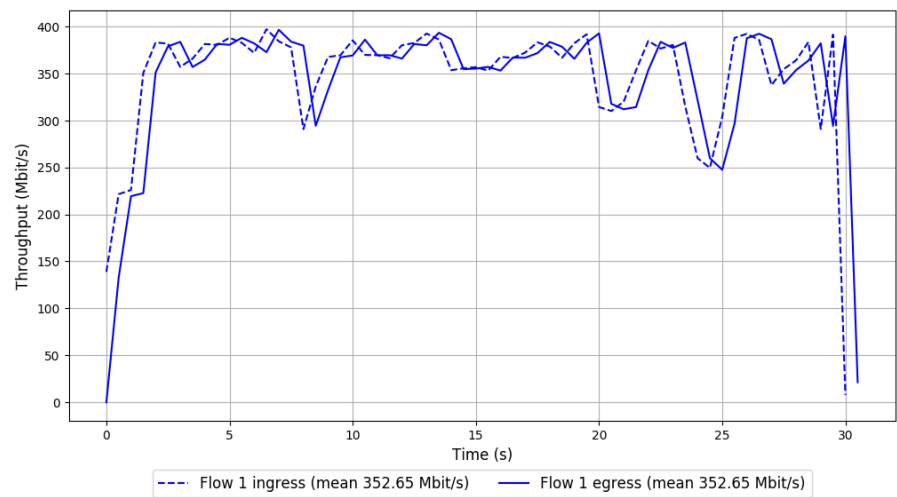
-- Flow 1:

Average throughput: 352.65 Mbit/s

95th percentile per-packet one-way delay: 20.182 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-18 09:32:41

End at: 2018-06-18 09:33:11

Local clock offset: 3.258 ms

Remote clock offset: 5.669 ms

# Below is generated by plot.py at 2018-06-18 13:15:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 363.97 Mbit/s

95th percentile per-packet one-way delay: 18.488 ms

Loss rate: 0.00%

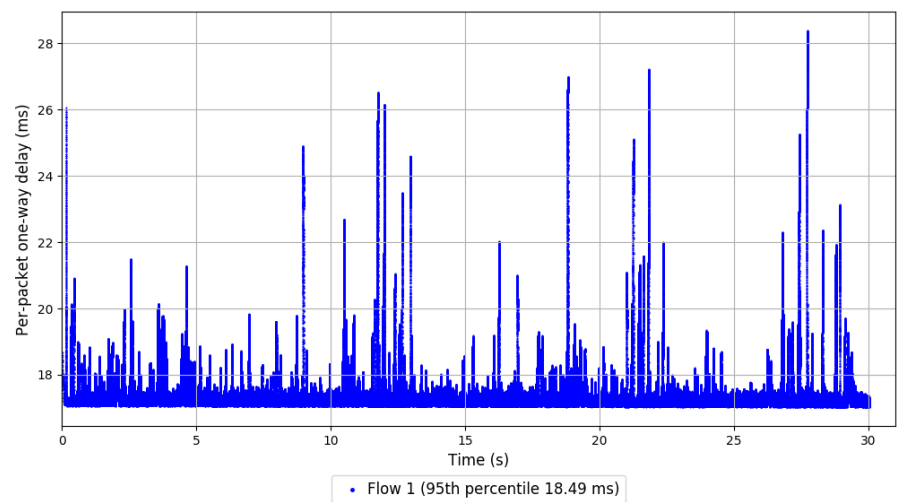
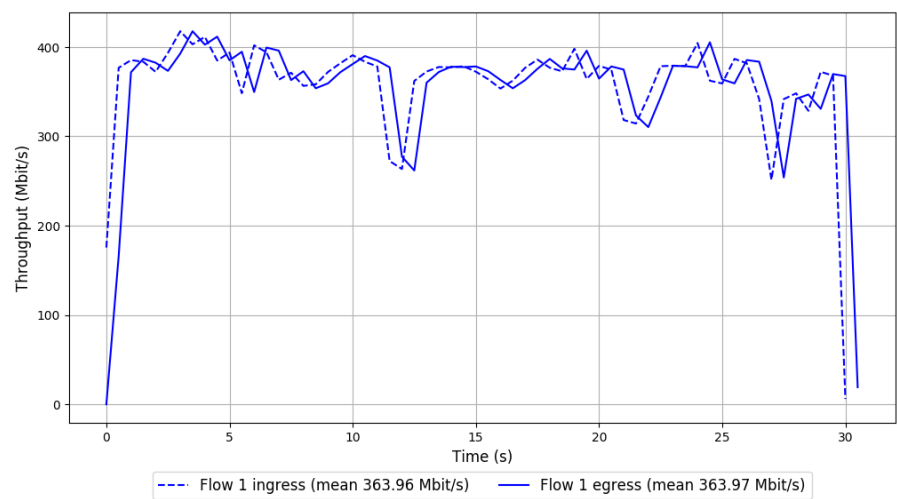
-- Flow 1:

Average throughput: 363.97 Mbit/s

95th percentile per-packet one-way delay: 18.488 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-18 09:56:52

End at: 2018-06-18 09:57:22

Local clock offset: 3.533 ms

Remote clock offset: 4.483 ms

# Below is generated by plot.py at 2018-06-18 13:15:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 373.34 Mbit/s

95th percentile per-packet one-way delay: 18.779 ms

Loss rate: 0.00%

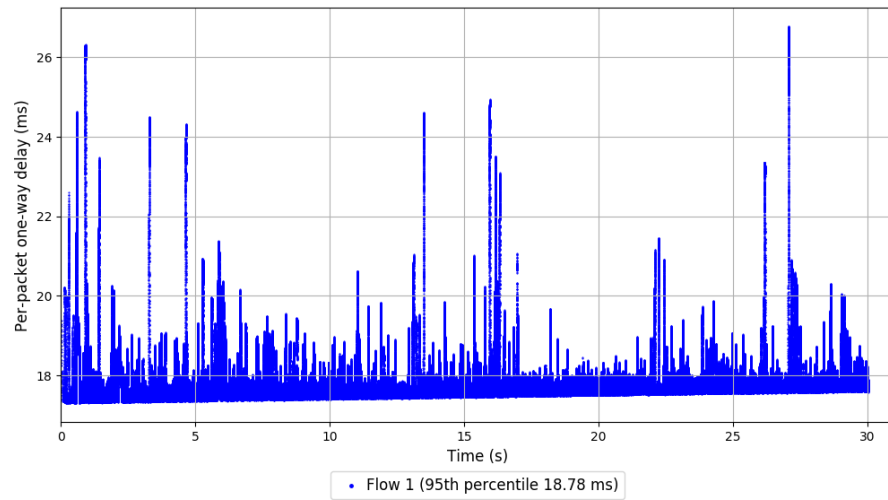
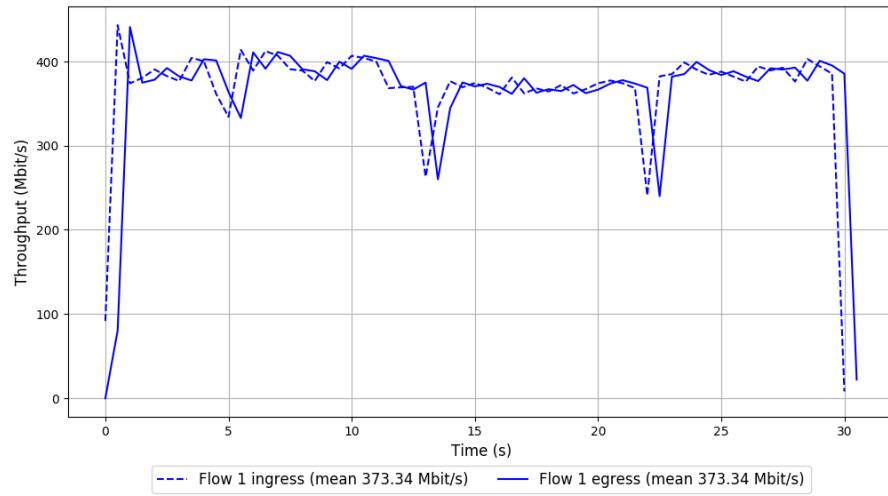
-- Flow 1:

Average throughput: 373.34 Mbit/s

95th percentile per-packet one-way delay: 18.779 ms

Loss rate: 0.00%

### Run 3: Report of Copa — Data Link

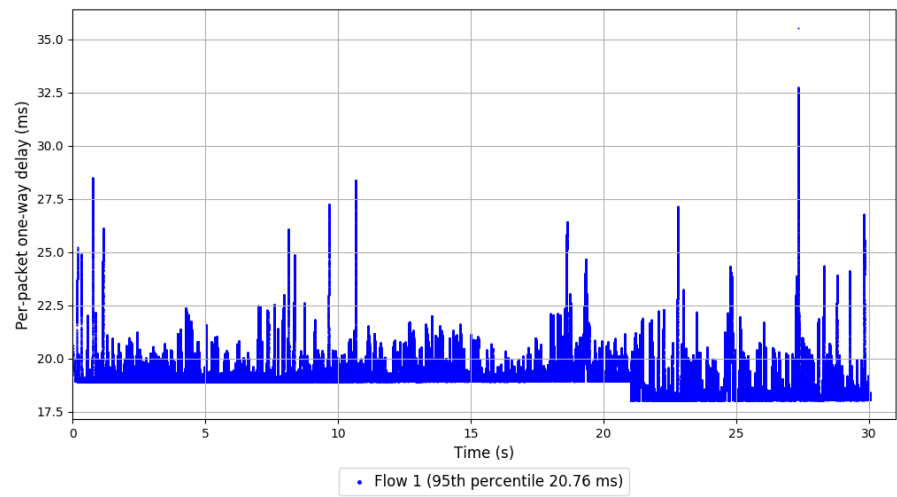
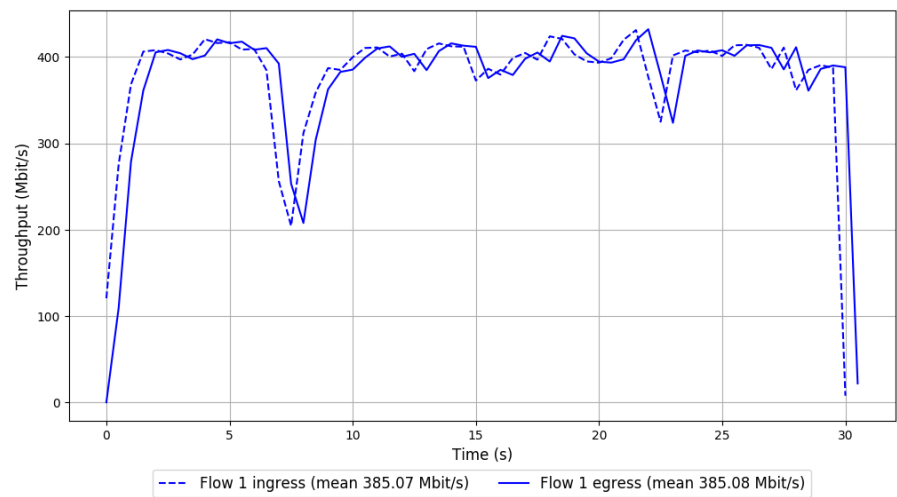


Run 4: Statistics of Copa

Start at: 2018-06-18 10:21:00  
End at: 2018-06-18 10:21:30  
Local clock offset: 4.052 ms  
Remote clock offset: -1.539 ms

# Below is generated by plot.py at 2018-06-18 13:16:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 385.08 Mbit/s  
95th percentile per-packet one-way delay: 20.760 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 385.08 Mbit/s  
95th percentile per-packet one-way delay: 20.760 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

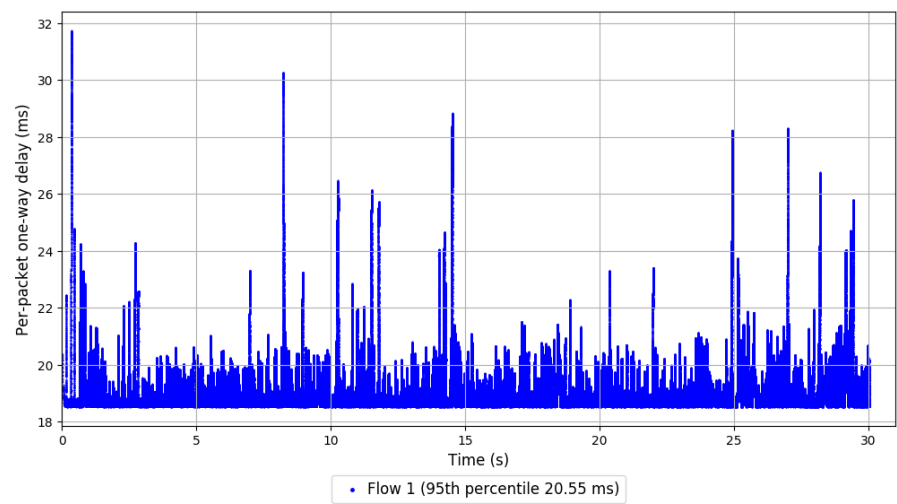
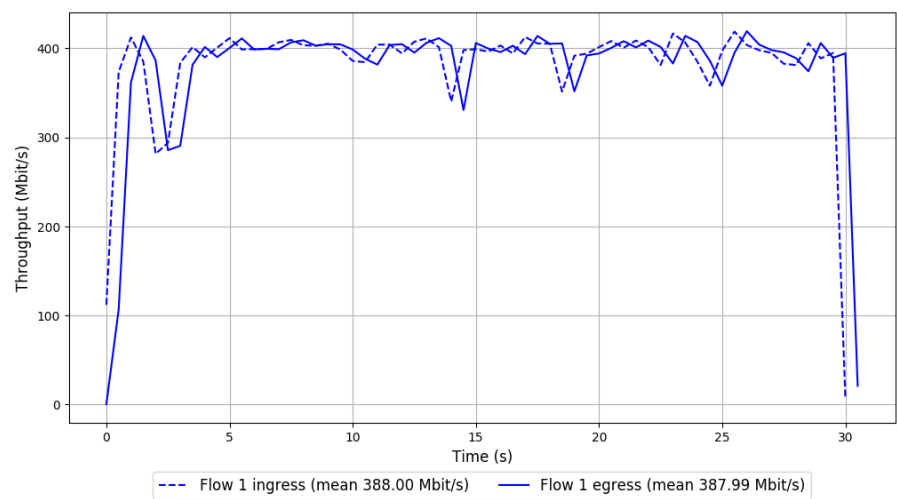


Run 5: Statistics of Copa

Start at: 2018-06-18 10:45:05  
End at: 2018-06-18 10:45:35  
Local clock offset: 3.734 ms  
Remote clock offset: -0.978 ms

# Below is generated by plot.py at 2018-06-18 13:16:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 387.99 Mbit/s  
95th percentile per-packet one-way delay: 20.554 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 387.99 Mbit/s  
95th percentile per-packet one-way delay: 20.554 ms  
Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-18 11:09:19

End at: 2018-06-18 11:09:49

Local clock offset: 3.41 ms

Remote clock offset: 1.66 ms

# Below is generated by plot.py at 2018-06-18 13:16:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 358.39 Mbit/s

95th percentile per-packet one-way delay: 19.942 ms

Loss rate: 0.00%

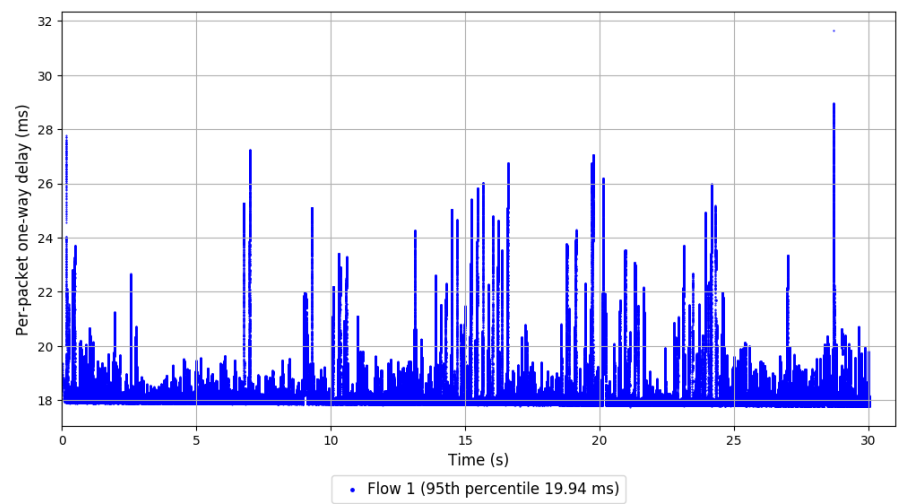
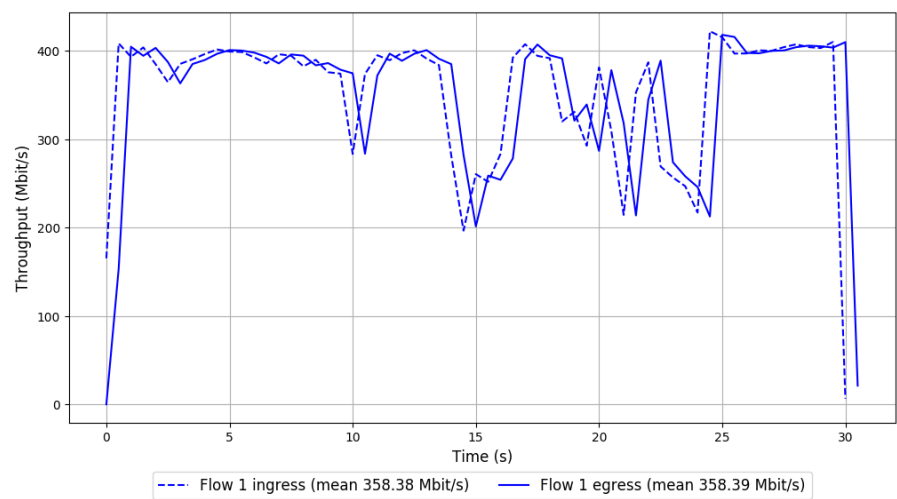
-- Flow 1:

Average throughput: 358.39 Mbit/s

95th percentile per-packet one-way delay: 19.942 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-18 11:33:09

End at: 2018-06-18 11:33:39

Local clock offset: 3.488 ms

Remote clock offset: 4.719 ms

# Below is generated by plot.py at 2018-06-18 13:23:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 379.70 Mbit/s

95th percentile per-packet one-way delay: 20.919 ms

Loss rate: 0.01%

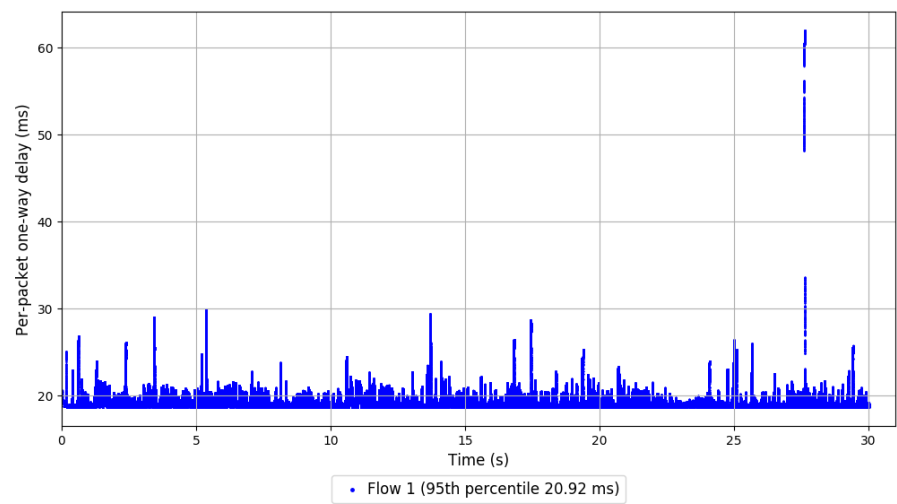
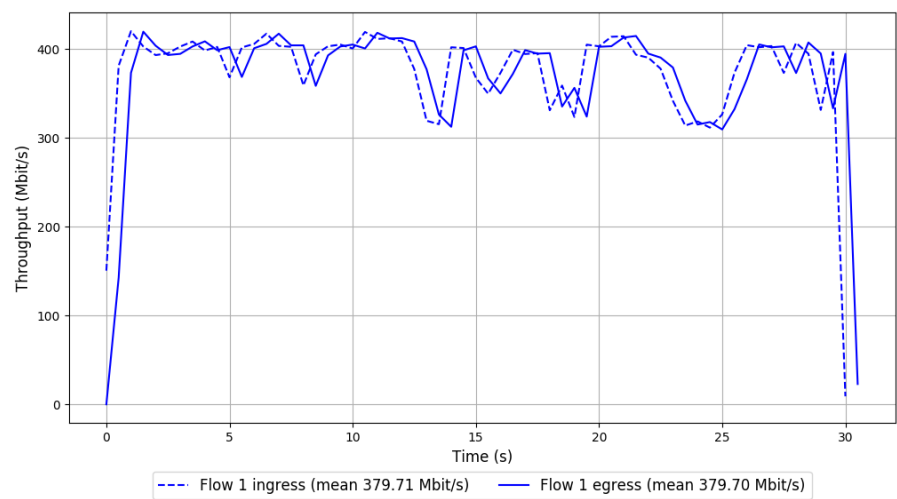
-- Flow 1:

Average throughput: 379.70 Mbit/s

95th percentile per-packet one-way delay: 20.919 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-18 11:56:54

End at: 2018-06-18 11:57:24

Local clock offset: 3.719 ms

Remote clock offset: 3.401 ms

# Below is generated by plot.py at 2018-06-18 13:23:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 364.74 Mbit/s

95th percentile per-packet one-way delay: 20.830 ms

Loss rate: 0.00%

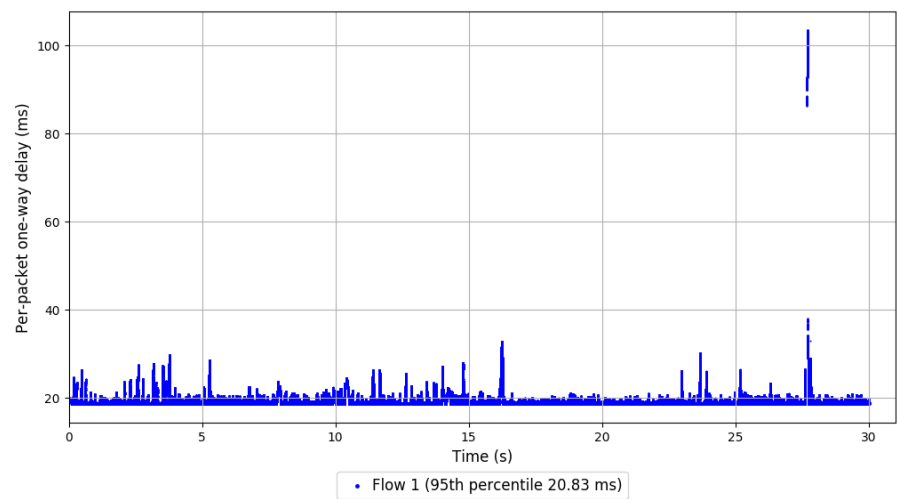
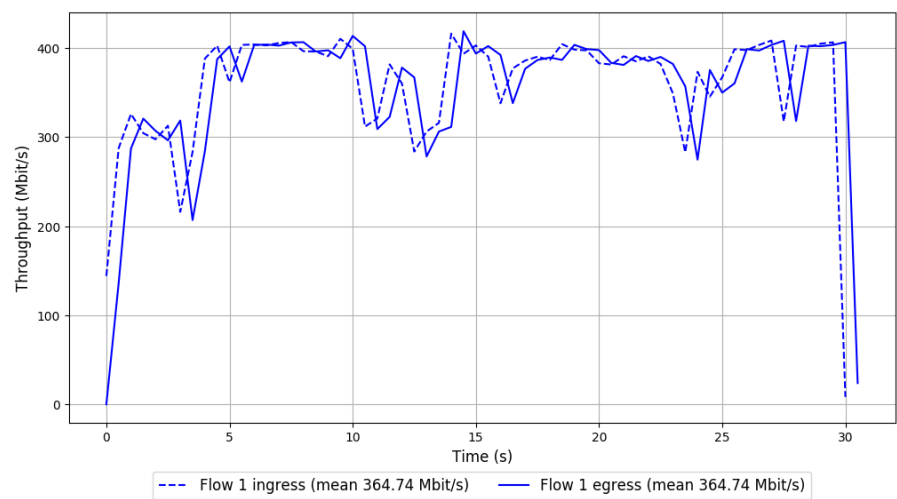
-- Flow 1:

Average throughput: 364.74 Mbit/s

95th percentile per-packet one-way delay: 20.830 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-18 12:20:53

End at: 2018-06-18 12:21:23

Local clock offset: 3.673 ms

Remote clock offset: 2.748 ms

# Below is generated by plot.py at 2018-06-18 13:23:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 352.04 Mbit/s

95th percentile per-packet one-way delay: 22.255 ms

Loss rate: 0.00%

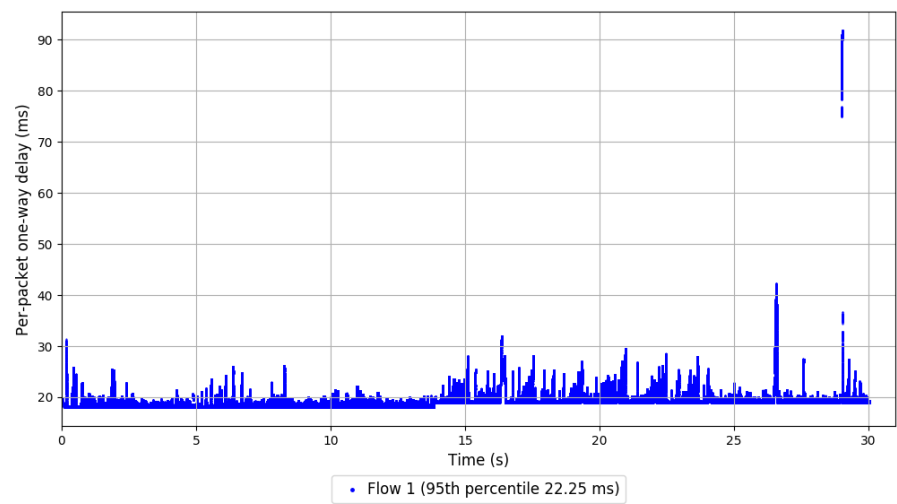
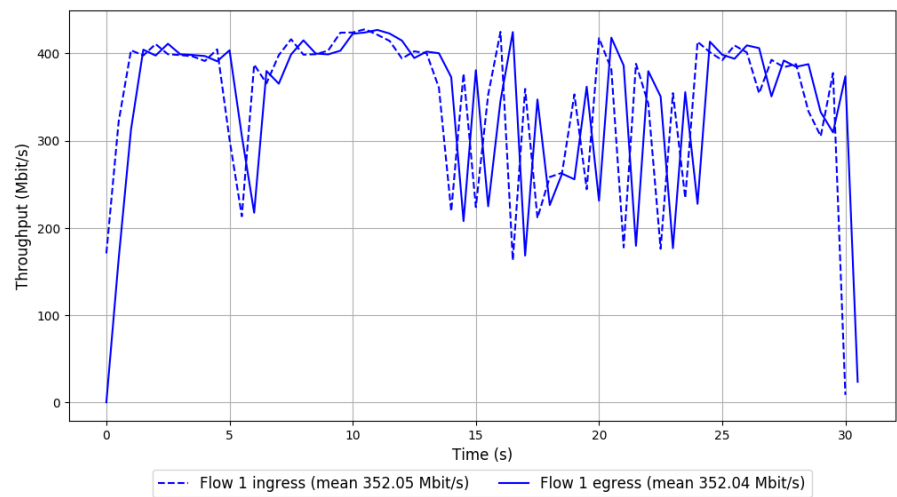
-- Flow 1:

Average throughput: 352.04 Mbit/s

95th percentile per-packet one-way delay: 22.255 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-18 12:44:54

End at: 2018-06-18 12:45:25

Local clock offset: 3.566 ms

Remote clock offset: 1.969 ms

# Below is generated by plot.py at 2018-06-18 13:23:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 364.28 Mbit/s

95th percentile per-packet one-way delay: 19.778 ms

Loss rate: 0.00%

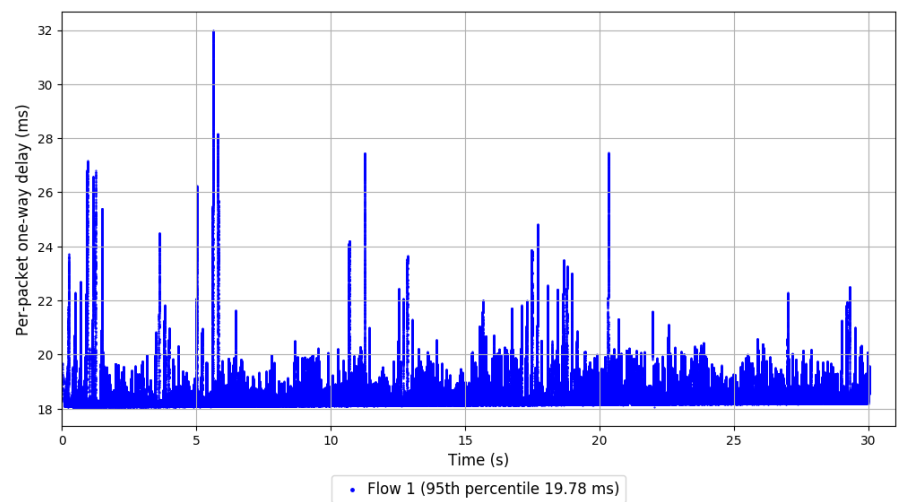
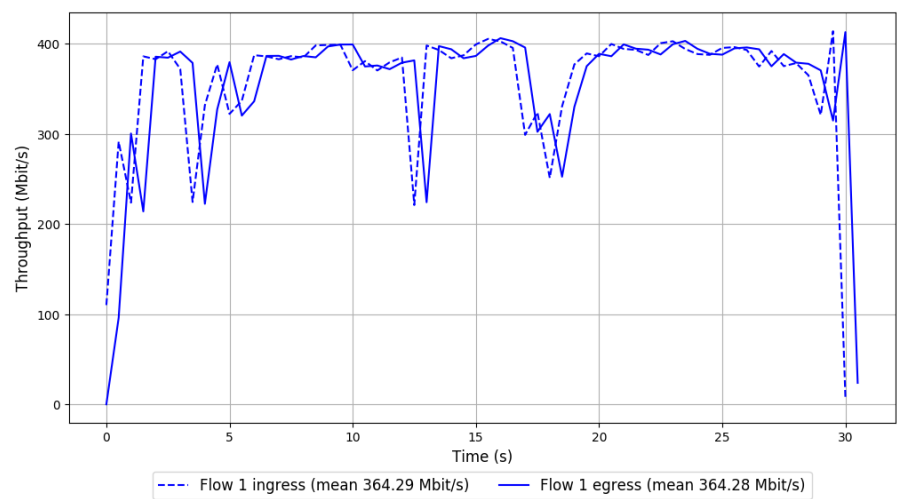
-- Flow 1:

Average throughput: 364.28 Mbit/s

95th percentile per-packet one-way delay: 19.778 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-18 08:59:41

End at: 2018-06-18 09:00:11

Local clock offset: 2.692 ms

Remote clock offset: 2.984 ms

# Below is generated by plot.py at 2018-06-18 13:23:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 409.75 Mbit/s

95th percentile per-packet one-way delay: 24.444 ms

Loss rate: 0.07%

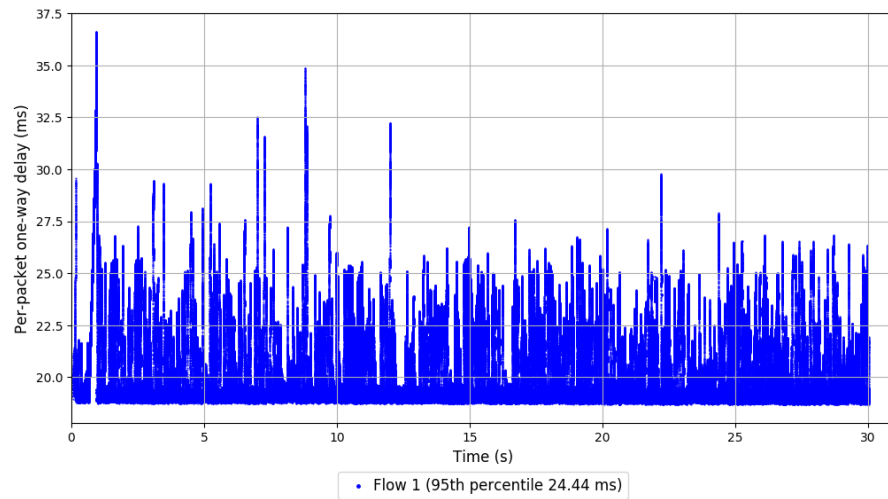
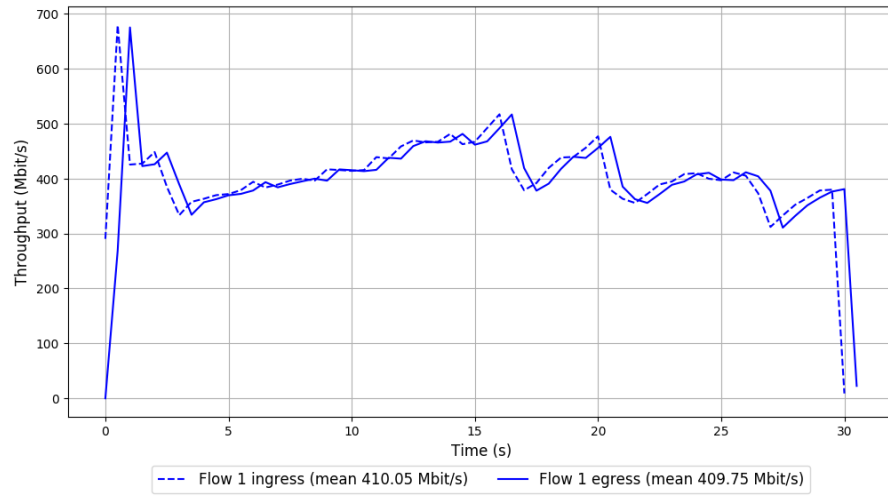
-- Flow 1:

Average throughput: 409.75 Mbit/s

95th percentile per-packet one-way delay: 24.444 ms

Loss rate: 0.07%

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



Run 2: Statistics of TCP Cubic

Start at: 2018-06-18 09:23:40

End at: 2018-06-18 09:24:10

Local clock offset: 3.304 ms

Remote clock offset: 5.114 ms

# Below is generated by plot.py at 2018-06-18 13:23:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 471.16 Mbit/s

95th percentile per-packet one-way delay: 24.219 ms

Loss rate: 0.08%

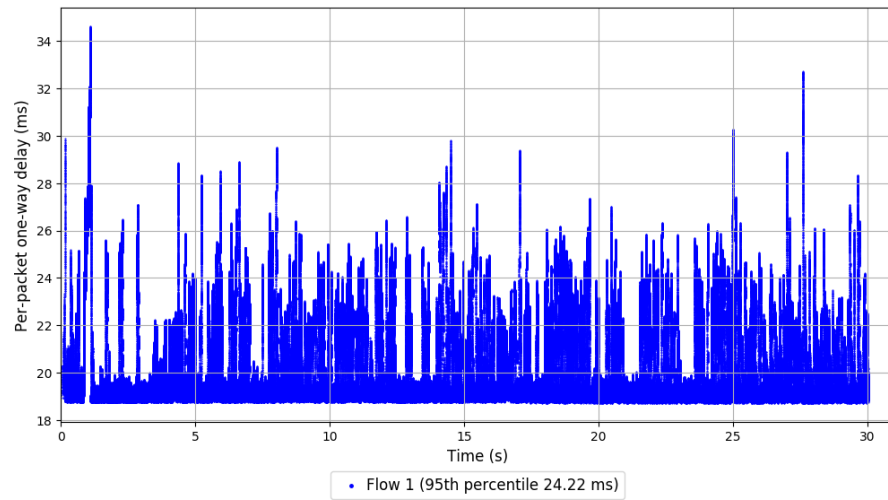
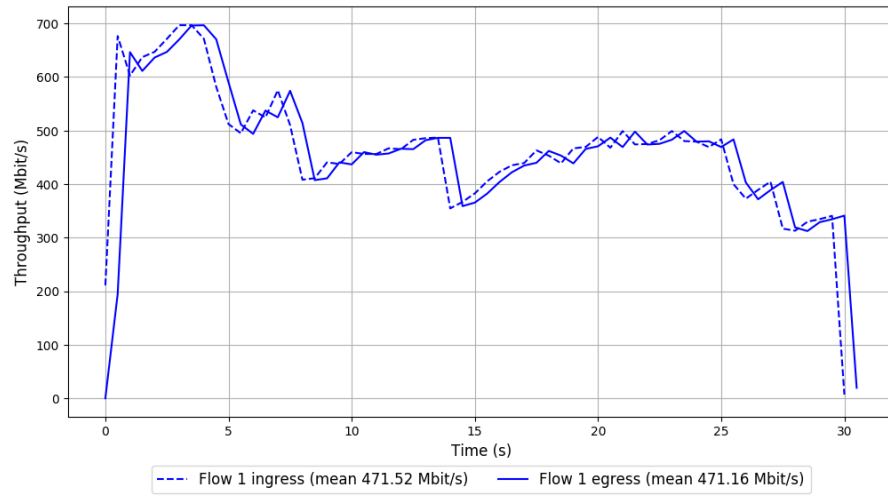
-- Flow 1:

Average throughput: 471.16 Mbit/s

95th percentile per-packet one-way delay: 24.219 ms

Loss rate: 0.08%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-06-18 09:47:49

End at: 2018-06-18 09:48:19

Local clock offset: 3.44 ms

Remote clock offset: 6.639 ms

# Below is generated by plot.py at 2018-06-18 13:23:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 556.78 Mbit/s

95th percentile per-packet one-way delay: 22.659 ms

Loss rate: 0.06%

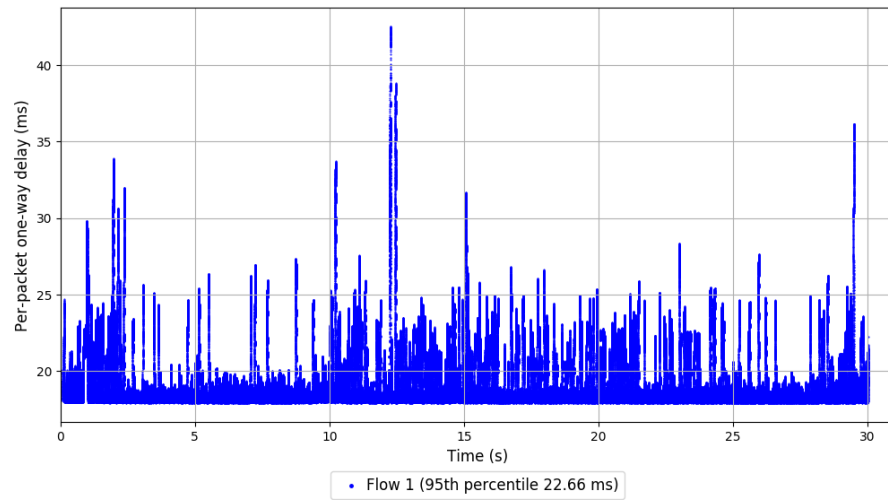
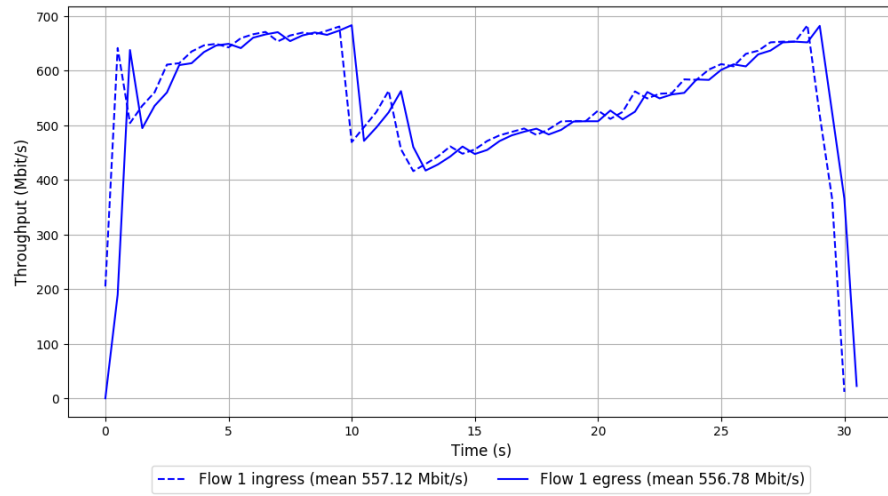
-- Flow 1:

Average throughput: 556.78 Mbit/s

95th percentile per-packet one-way delay: 22.659 ms

Loss rate: 0.06%

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

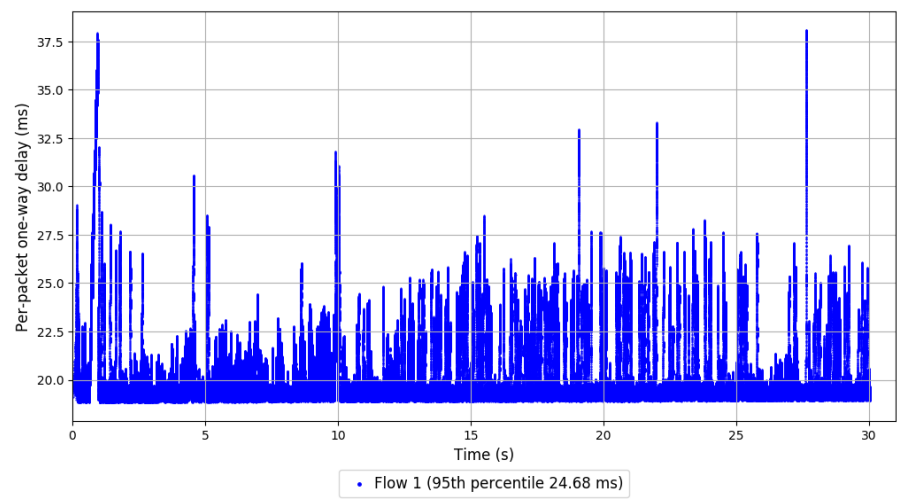
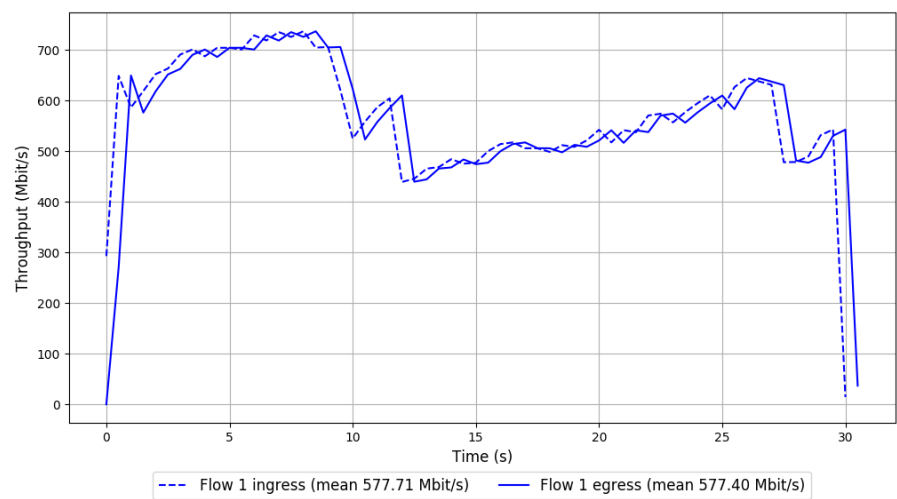


Run 4: Statistics of TCP Cubic

Start at: 2018-06-18 10:12:01  
End at: 2018-06-18 10:12:31  
Local clock offset: 3.904 ms  
Remote clock offset: -0.459 ms

# Below is generated by plot.py at 2018-06-18 13:23:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 577.40 Mbit/s  
95th percentile per-packet one-way delay: 24.678 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 577.40 Mbit/s  
95th percentile per-packet one-way delay: 24.678 ms  
Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link

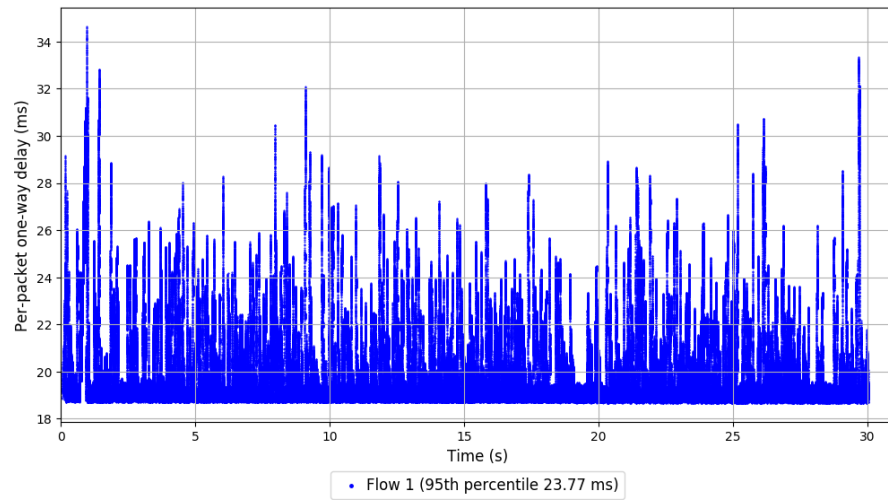
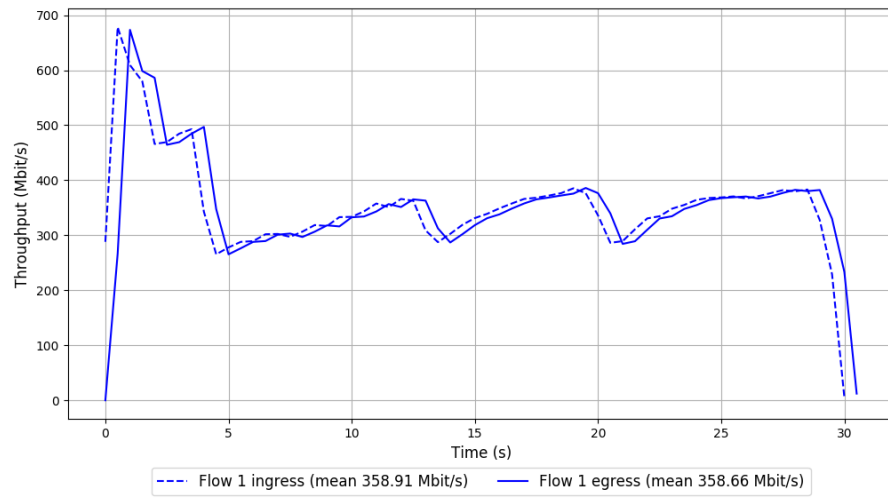


Run 5: Statistics of TCP Cubic

Start at: 2018-06-18 10:36:12  
End at: 2018-06-18 10:36:42  
Local clock offset: 4.14 ms  
Remote clock offset: -1.118 ms

# Below is generated by plot.py at 2018-06-18 13:24:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 358.66 Mbit/s  
95th percentile per-packet one-way delay: 23.773 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 358.66 Mbit/s  
95th percentile per-packet one-way delay: 23.773 ms  
Loss rate: 0.07%

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

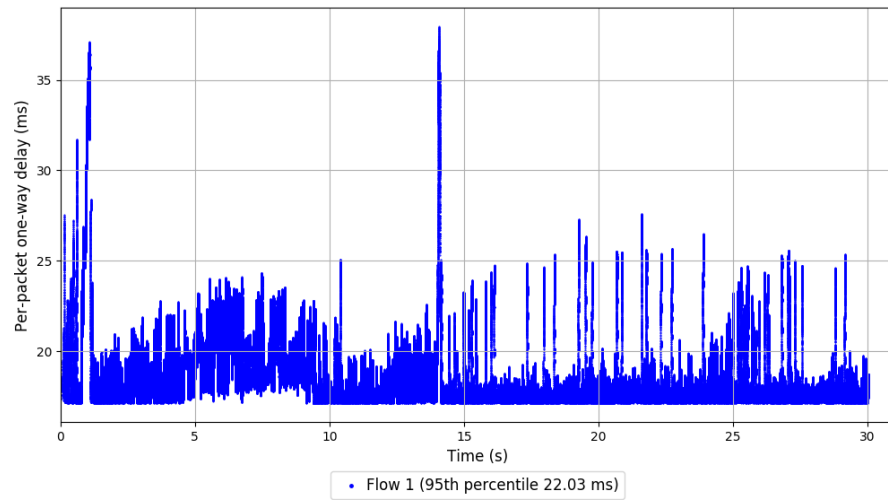
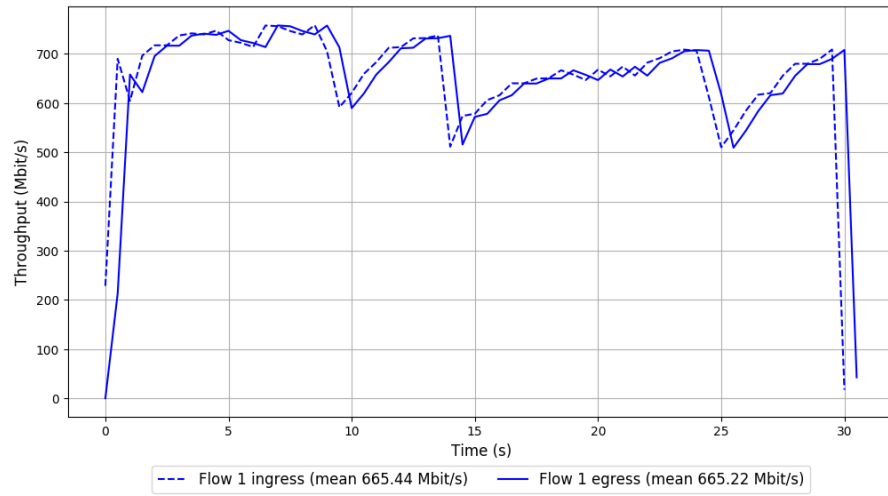


Run 6: Statistics of TCP Cubic

Start at: 2018-06-18 11:00:15  
End at: 2018-06-18 11:00:45  
Local clock offset: 3.502 ms  
Remote clock offset: -1.292 ms

# Below is generated by plot.py at 2018-06-18 13:28:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 665.22 Mbit/s  
95th percentile per-packet one-way delay: 22.027 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 665.22 Mbit/s  
95th percentile per-packet one-way delay: 22.027 ms  
Loss rate: 0.03%

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



Run 7: Statistics of TCP Cubic

Start at: 2018-06-18 11:24:21

End at: 2018-06-18 11:24:51

Local clock offset: 3.519 ms

Remote clock offset: 3.994 ms

# Below is generated by plot.py at 2018-06-18 13:28:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 331.39 Mbit/s

95th percentile per-packet one-way delay: 22.889 ms

Loss rate: 0.03%

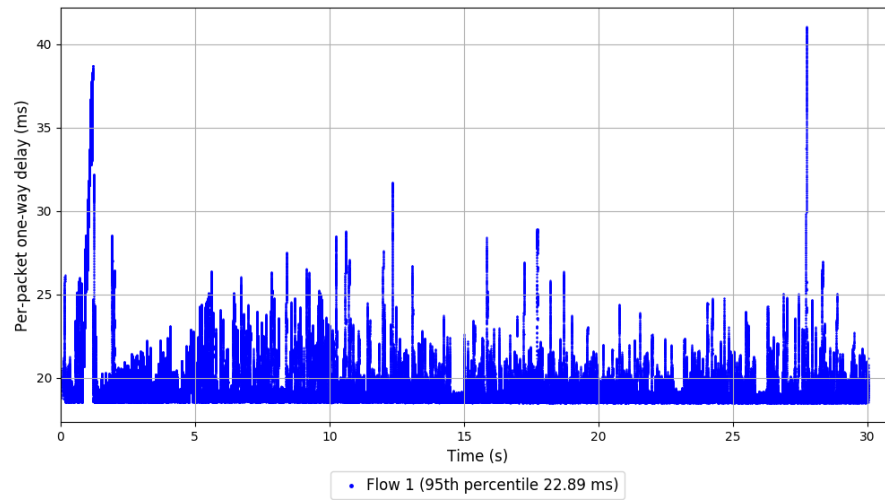
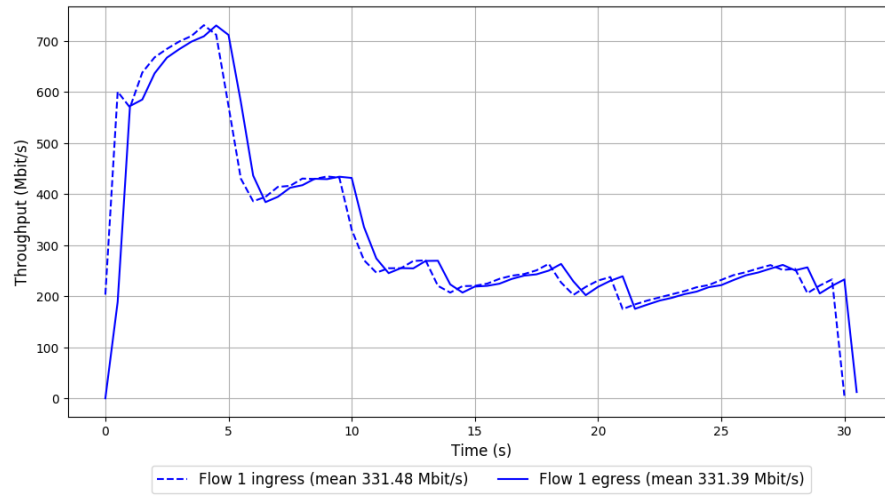
-- Flow 1:

Average throughput: 331.39 Mbit/s

95th percentile per-packet one-way delay: 22.889 ms

Loss rate: 0.03%

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



Run 8: Statistics of TCP Cubic

Start at: 2018-06-18 11:48:13

End at: 2018-06-18 11:48:43

Local clock offset: 3.597 ms

Remote clock offset: 3.449 ms

# Below is generated by plot.py at 2018-06-18 13:28:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.14 Mbit/s

95th percentile per-packet one-way delay: 21.684 ms

Loss rate: 0.00%

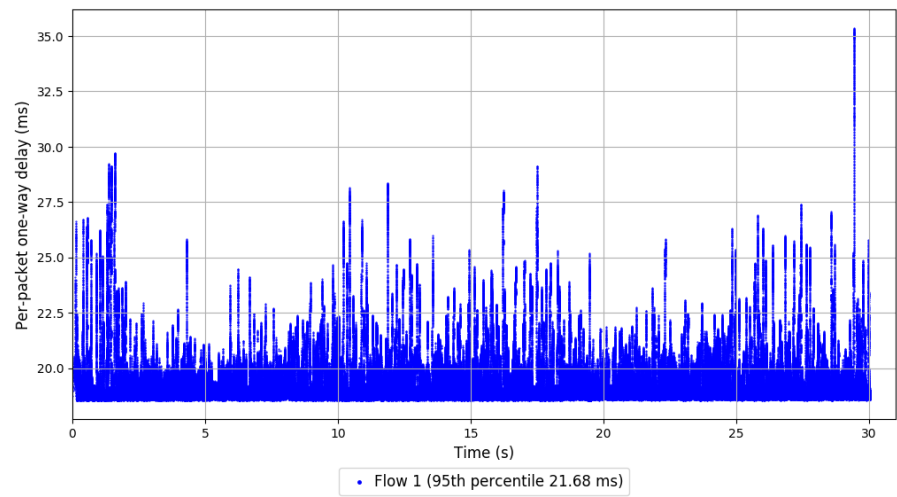
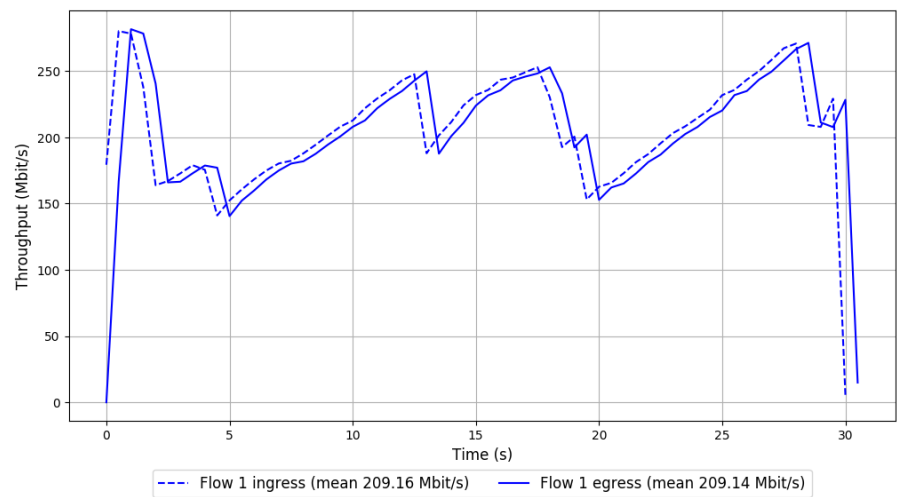
-- Flow 1:

Average throughput: 209.14 Mbit/s

95th percentile per-packet one-way delay: 21.684 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-18 12:11:54

End at: 2018-06-18 12:12:24

Local clock offset: 3.647 ms

Remote clock offset: 3.33 ms

# Below is generated by plot.py at 2018-06-18 13:28:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 511.52 Mbit/s

95th percentile per-packet one-way delay: 23.089 ms

Loss rate: 0.05%

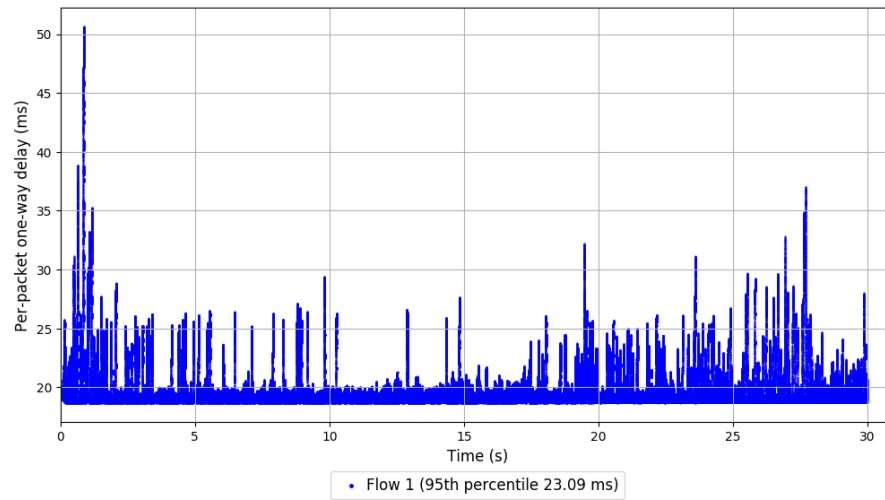
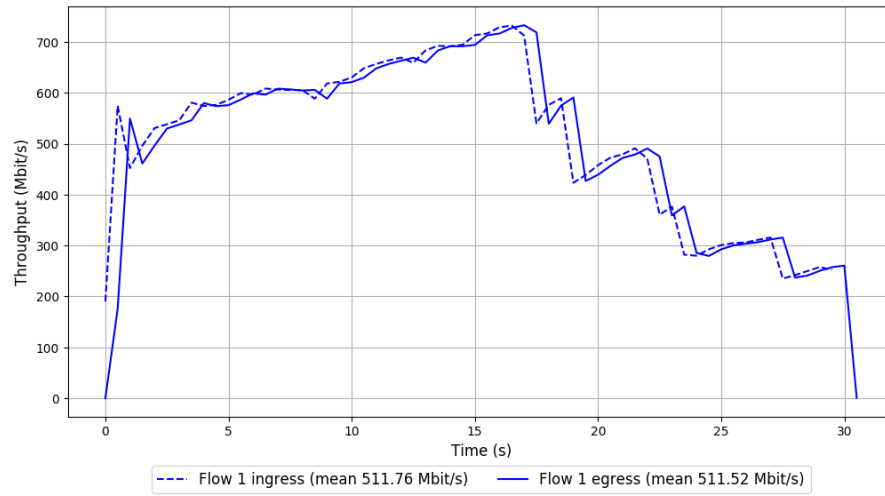
-- Flow 1:

Average throughput: 511.52 Mbit/s

95th percentile per-packet one-way delay: 23.089 ms

Loss rate: 0.05%

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



Run 10: Statistics of TCP Cubic

Start at: 2018-06-18 12:35:56

End at: 2018-06-18 12:36:26

Local clock offset: 3.732 ms

Remote clock offset: 2.362 ms

# Below is generated by plot.py at 2018-06-18 13:28:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 387.51 Mbit/s

95th percentile per-packet one-way delay: 25.107 ms

Loss rate: 0.08%

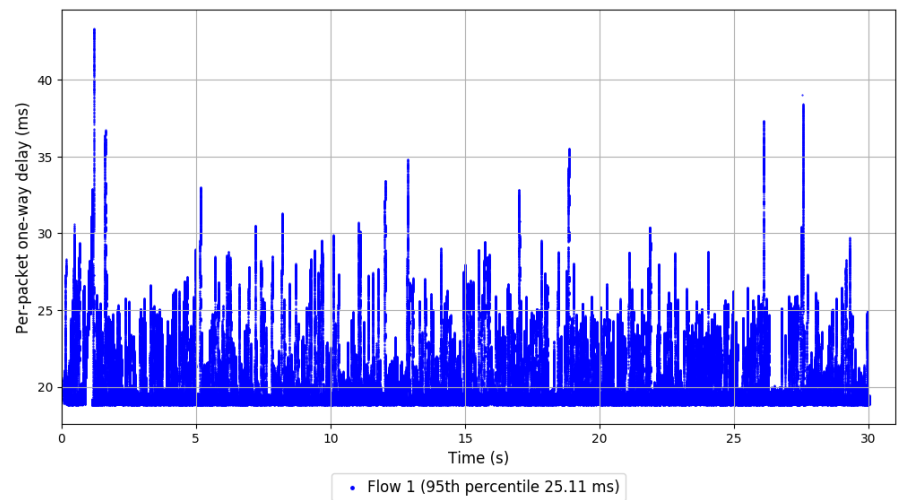
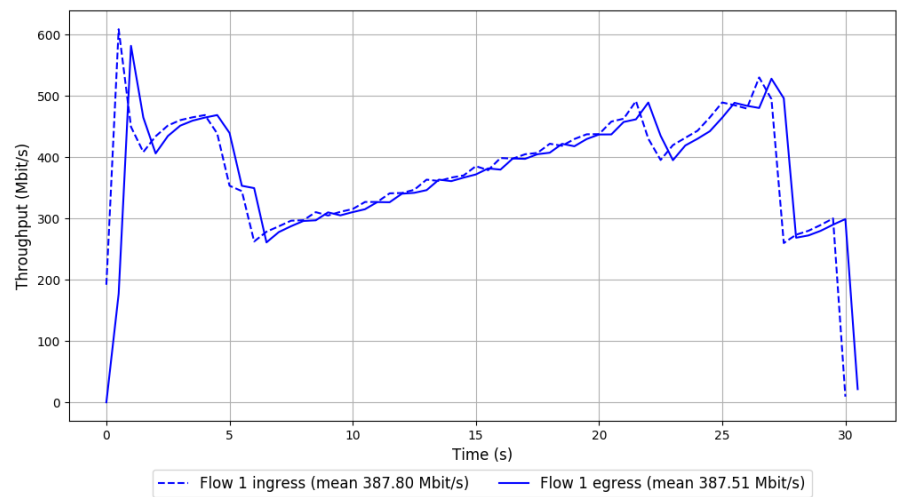
-- Flow 1:

Average throughput: 387.51 Mbit/s

95th percentile per-packet one-way delay: 25.107 ms

Loss rate: 0.08%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-18 08:55:10

End at: 2018-06-18 08:55:40

Local clock offset: 2.787 ms

Remote clock offset: 2.182 ms

# Below is generated by plot.py at 2018-06-18 13:35:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 860.94 Mbit/s

95th percentile per-packet one-way delay: 77.425 ms

Loss rate: 4.13%

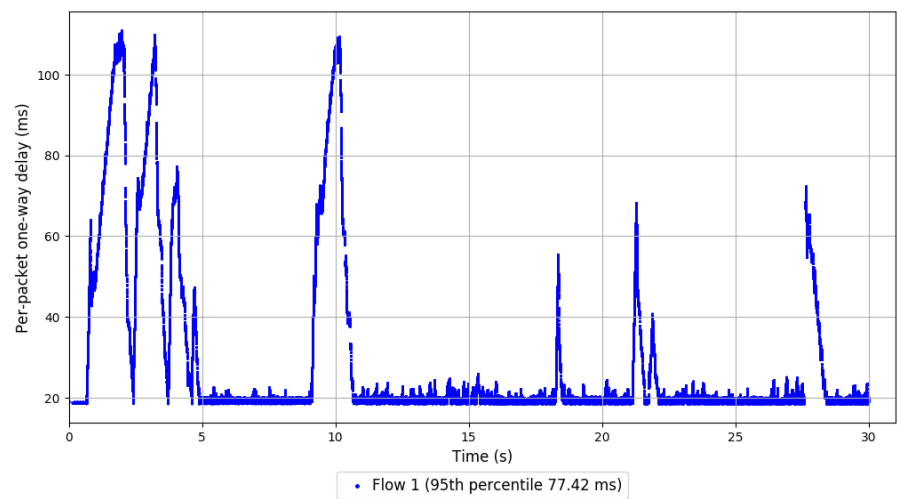
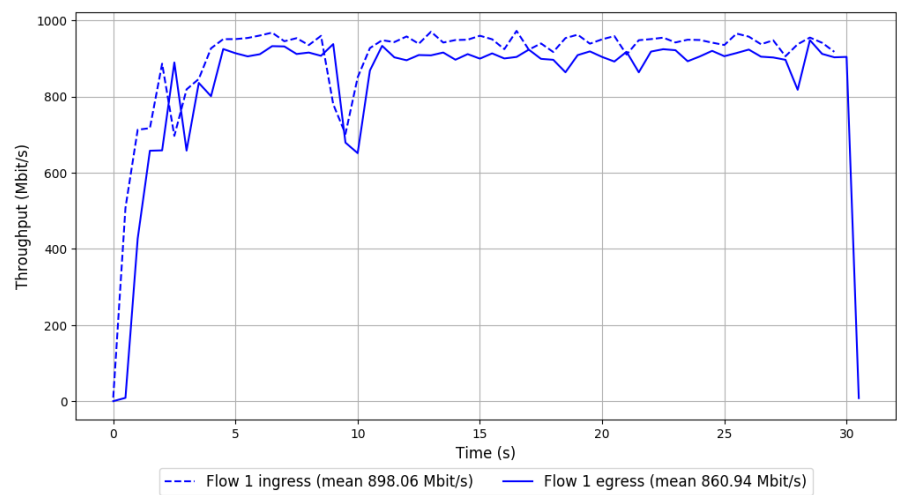
-- Flow 1:

Average throughput: 860.94 Mbit/s

95th percentile per-packet one-way delay: 77.425 ms

Loss rate: 4.13%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-18 09:19:11

End at: 2018-06-18 09:19:41

Local clock offset: 3.307 ms

Remote clock offset: 4.784 ms

# Below is generated by plot.py at 2018-06-18 13:36:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 885.49 Mbit/s

95th percentile per-packet one-way delay: 61.803 ms

Loss rate: 3.54%

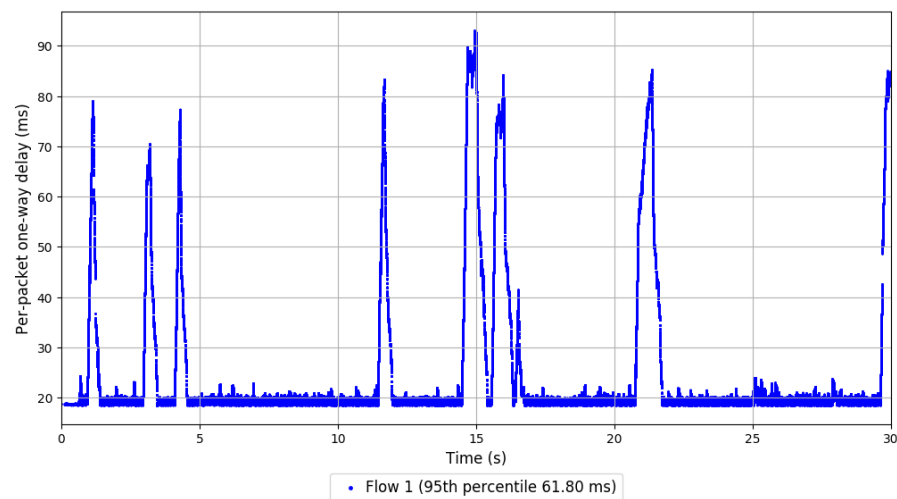
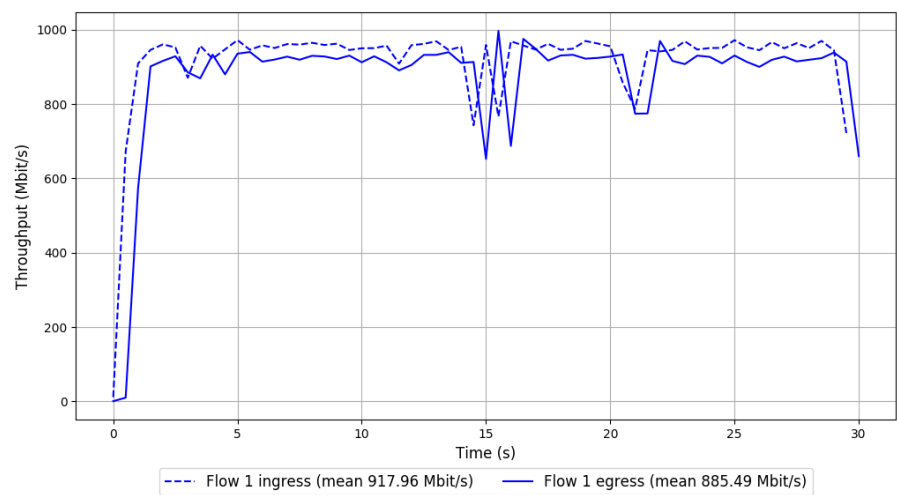
-- Flow 1:

Average throughput: 885.49 Mbit/s

95th percentile per-packet one-way delay: 61.803 ms

Loss rate: 3.54%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-18 09:43:18

End at: 2018-06-18 09:43:49

Local clock offset: 3.489 ms

Remote clock offset: 6.411 ms

# Below is generated by plot.py at 2018-06-18 13:36:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 830.59 Mbit/s

95th percentile per-packet one-way delay: 101.679 ms

Loss rate: 3.84%

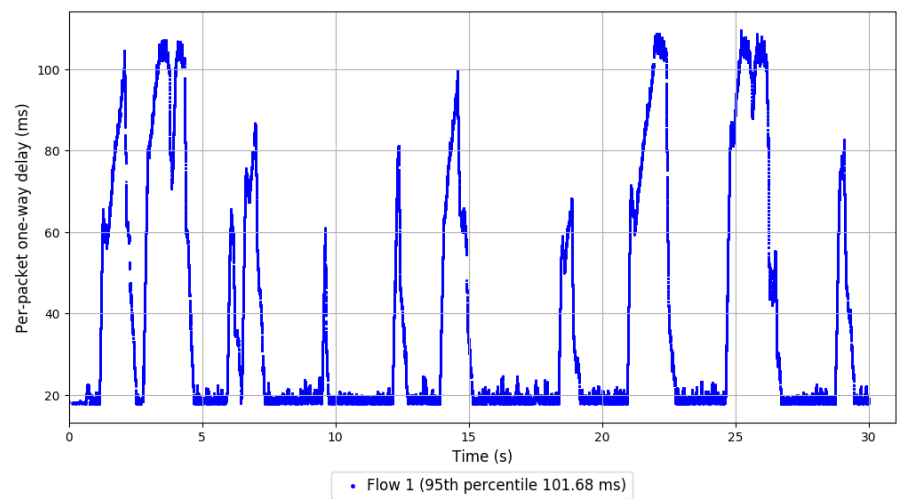
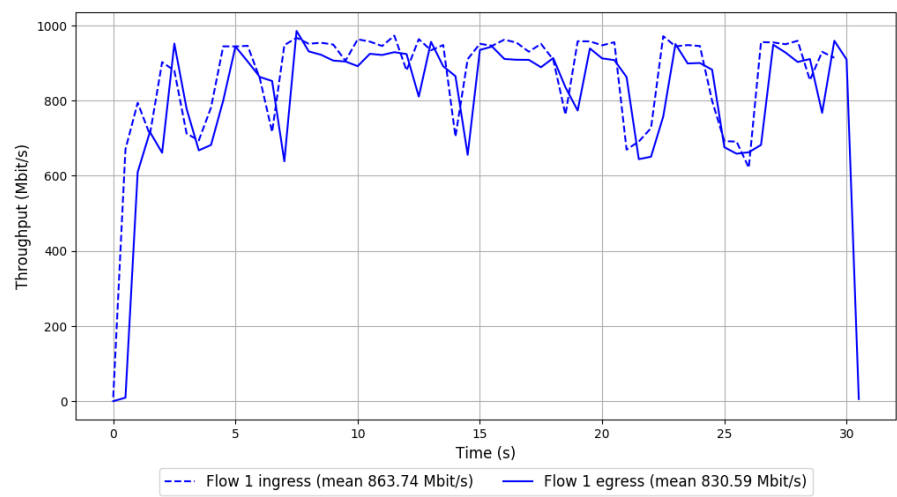
-- Flow 1:

Average throughput: 830.59 Mbit/s

95th percentile per-packet one-way delay: 101.679 ms

Loss rate: 3.84%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-18 10:07:34

End at: 2018-06-18 10:08:04

Local clock offset: 3.719 ms

Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2018-06-18 13:36:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 809.00 Mbit/s

95th percentile per-packet one-way delay: 104.315 ms

Loss rate: 4.45%

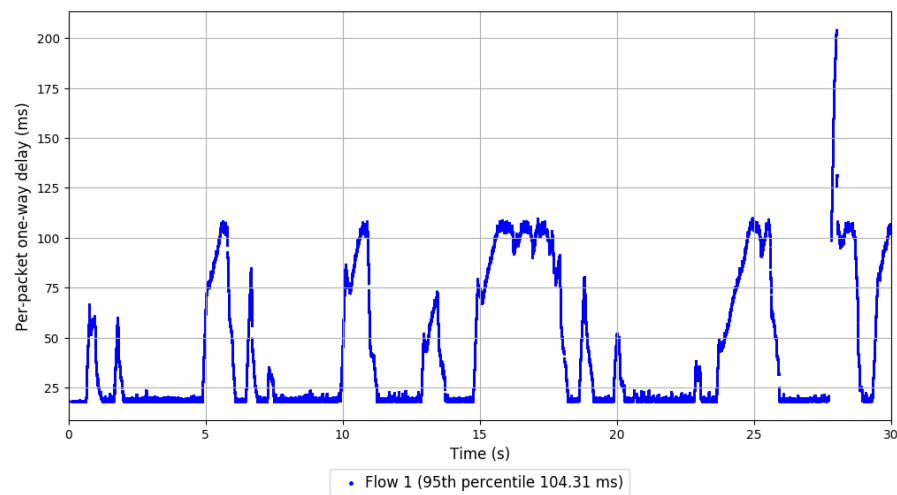
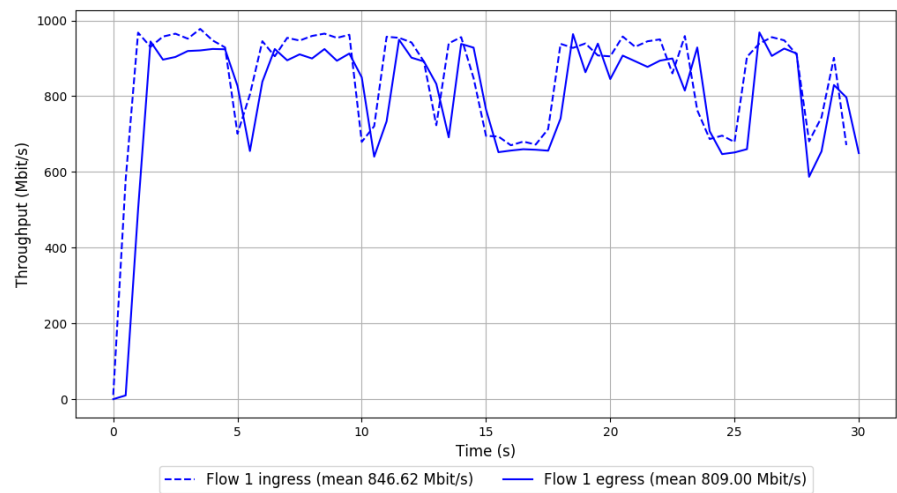
-- Flow 1:

Average throughput: 809.00 Mbit/s

95th percentile per-packet one-way delay: 104.315 ms

Loss rate: 4.45%

Run 4: Report of FillP — Data Link

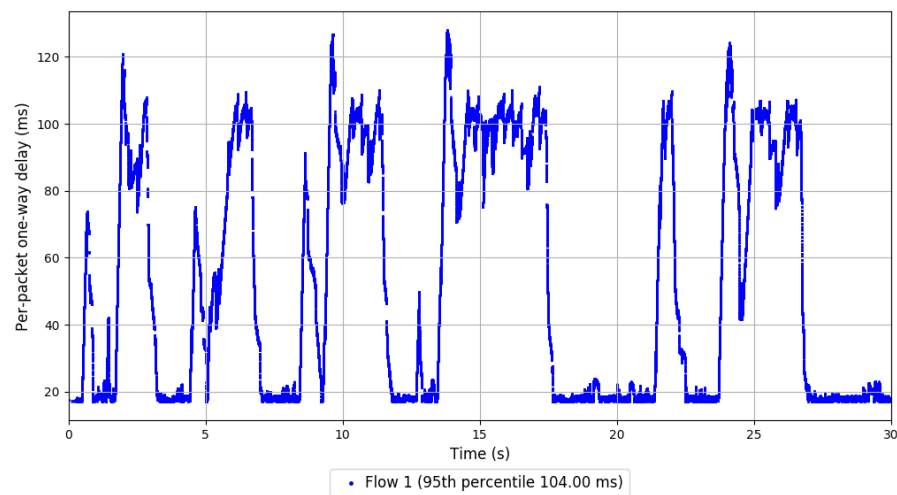
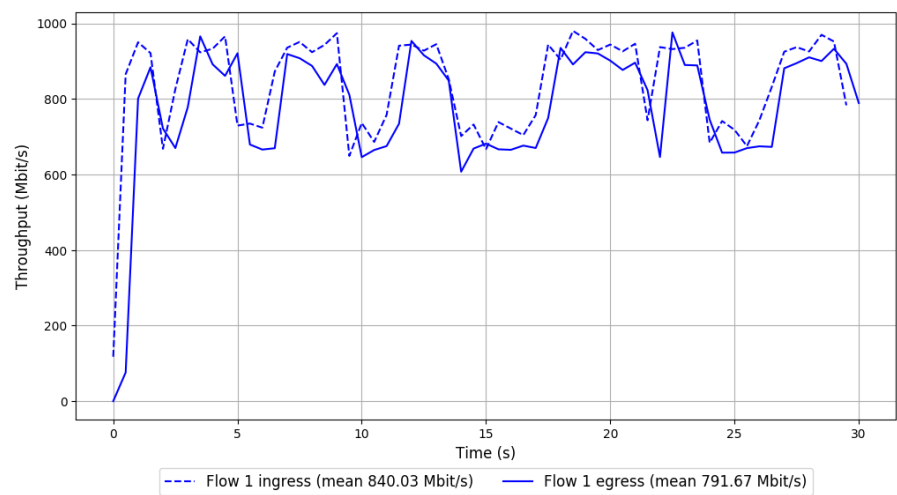


Run 5: Statistics of FillP

Start at: 2018-06-18 10:31:43  
End at: 2018-06-18 10:32:13  
Local clock offset: 4.241 ms  
Remote clock offset: -1.509 ms

# Below is generated by plot.py at 2018-06-18 13:38:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 791.67 Mbit/s  
95th percentile per-packet one-way delay: 104.001 ms  
Loss rate: 5.76%  
-- Flow 1:  
Average throughput: 791.67 Mbit/s  
95th percentile per-packet one-way delay: 104.001 ms  
Loss rate: 5.76%

Run 5: Report of FillP — Data Link

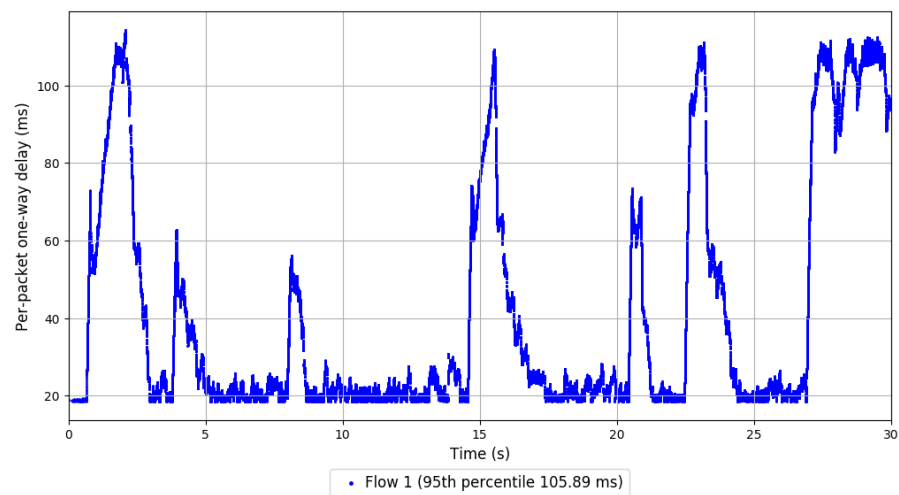
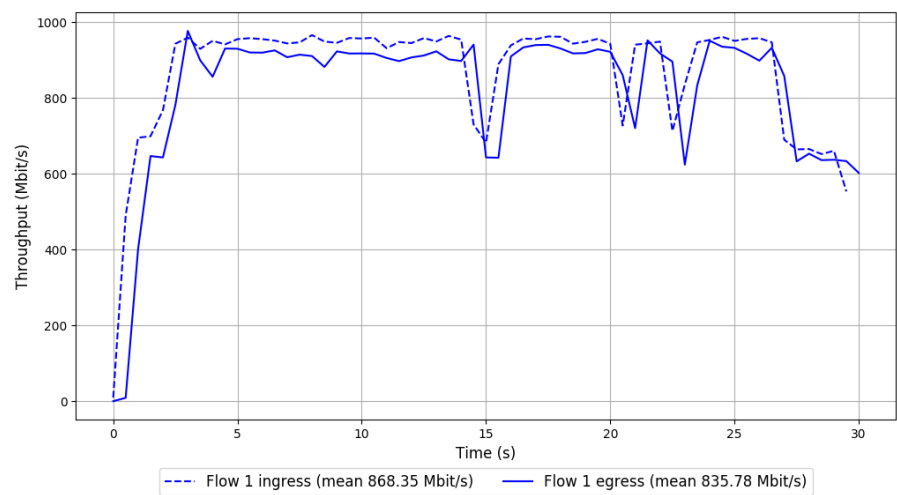


Run 6: Statistics of FillP

Start at: 2018-06-18 10:55:46  
End at: 2018-06-18 10:56:16  
Local clock offset: 3.528 ms  
Remote clock offset: -1.194 ms

# Below is generated by plot.py at 2018-06-18 13:40:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 835.78 Mbit/s  
95th percentile per-packet one-way delay: 105.891 ms  
Loss rate: 3.75%  
-- Flow 1:  
Average throughput: 835.78 Mbit/s  
95th percentile per-packet one-way delay: 105.891 ms  
Loss rate: 3.75%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-18 11:19:57

End at: 2018-06-18 11:20:27

Local clock offset: 3.453 ms

Remote clock offset: 3.554 ms

# Below is generated by plot.py at 2018-06-18 13:40:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 732.23 Mbit/s

95th percentile per-packet one-way delay: 107.028 ms

Loss rate: 6.19%

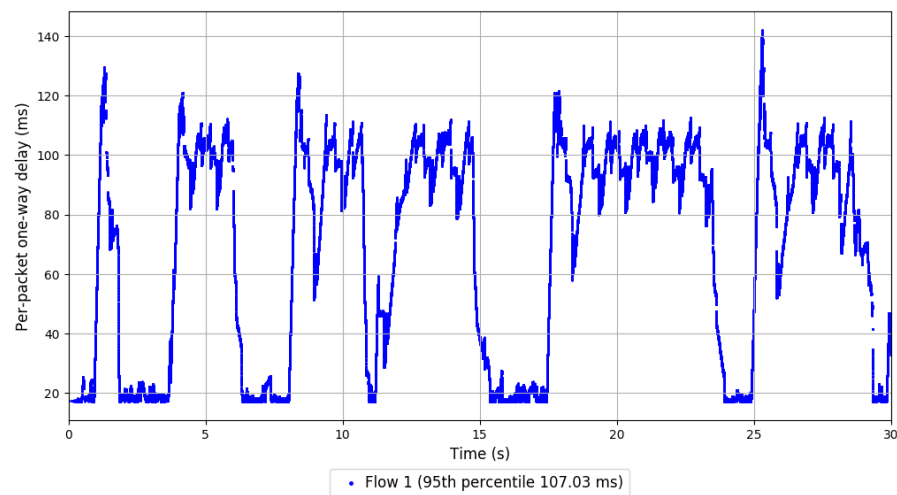
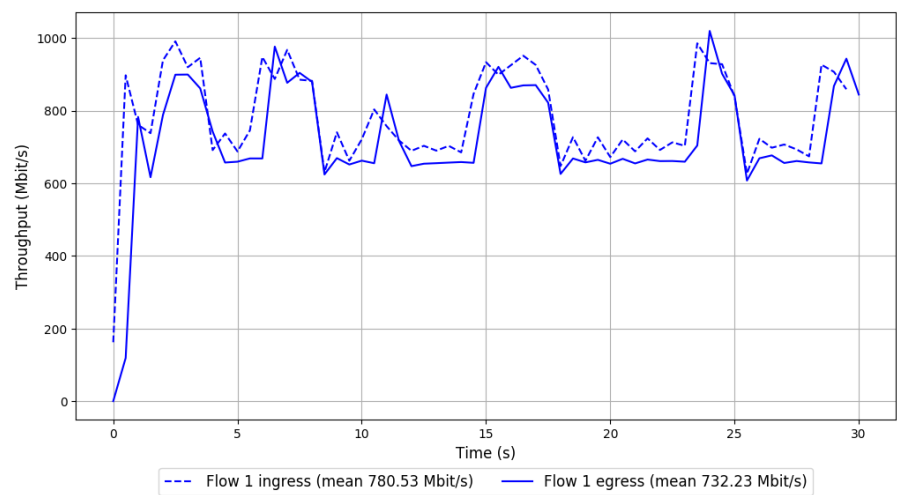
-- Flow 1:

Average throughput: 732.23 Mbit/s

95th percentile per-packet one-way delay: 107.028 ms

Loss rate: 6.19%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-18 11:43:47

End at: 2018-06-18 11:44:17

Local clock offset: 3.657 ms

Remote clock offset: 3.798 ms

# Below is generated by plot.py at 2018-06-18 13:40:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 726.70 Mbit/s

95th percentile per-packet one-way delay: 106.433 ms

Loss rate: 3.64%

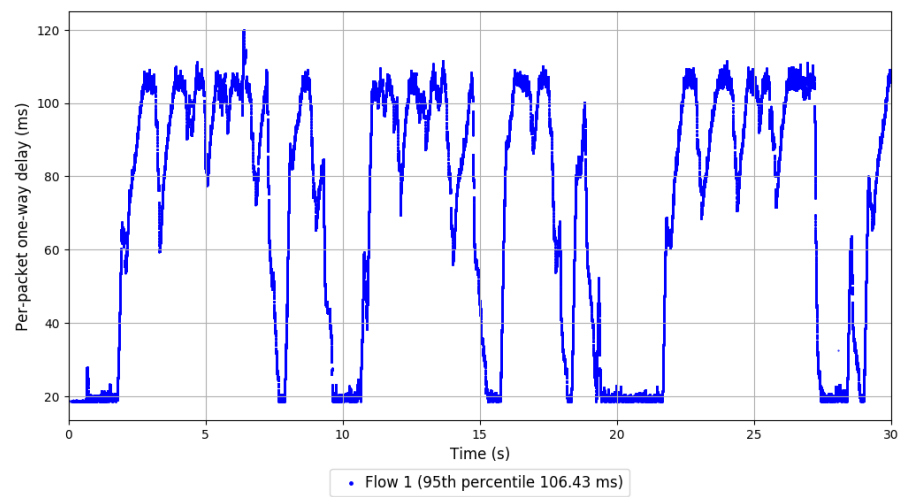
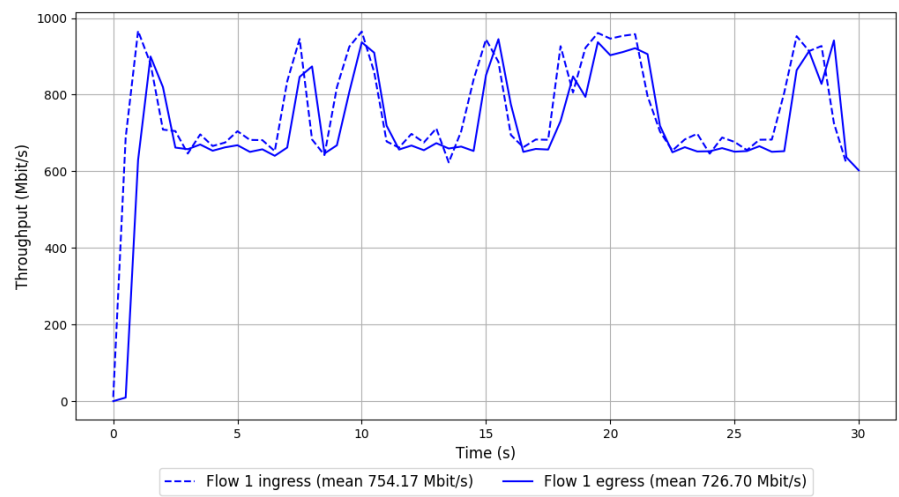
-- Flow 1:

Average throughput: 726.70 Mbit/s

95th percentile per-packet one-way delay: 106.433 ms

Loss rate: 3.64%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-18 12:07:29

End at: 2018-06-18 12:07:59

Local clock offset: 3.746 ms

Remote clock offset: 3.604 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 712.66 Mbit/s

95th percentile per-packet one-way delay: 106.596 ms

Loss rate: 4.01%

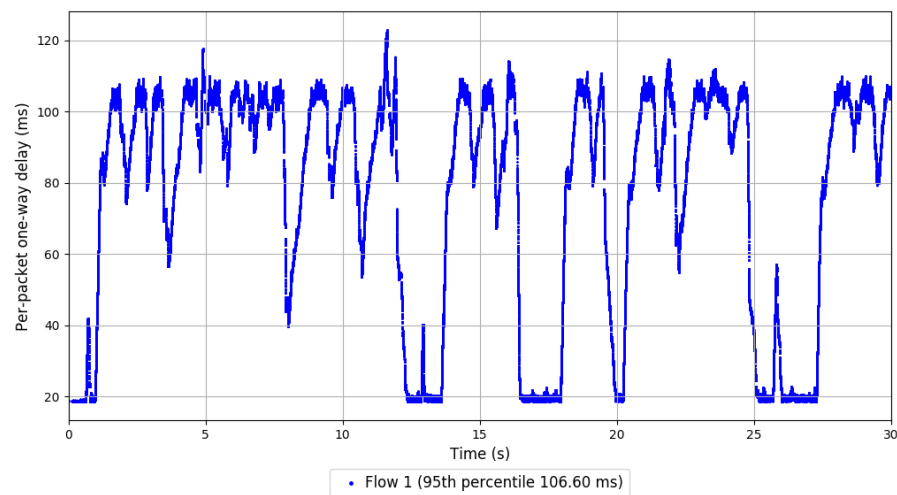
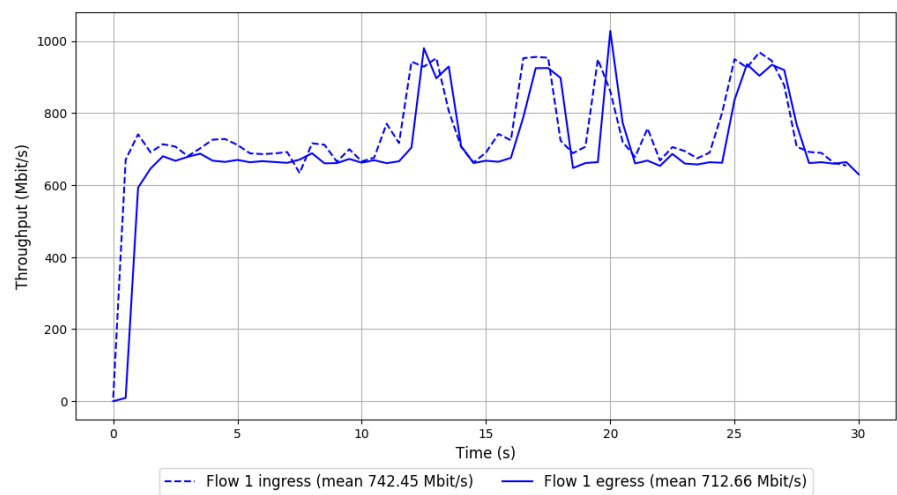
-- Flow 1:

Average throughput: 712.66 Mbit/s

95th percentile per-packet one-way delay: 106.596 ms

Loss rate: 4.01%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-18 12:31:29

End at: 2018-06-18 12:31:59

Local clock offset: 3.755 ms

Remote clock offset: 2.325 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 681.44 Mbit/s

95th percentile per-packet one-way delay: 106.141 ms

Loss rate: 3.46%

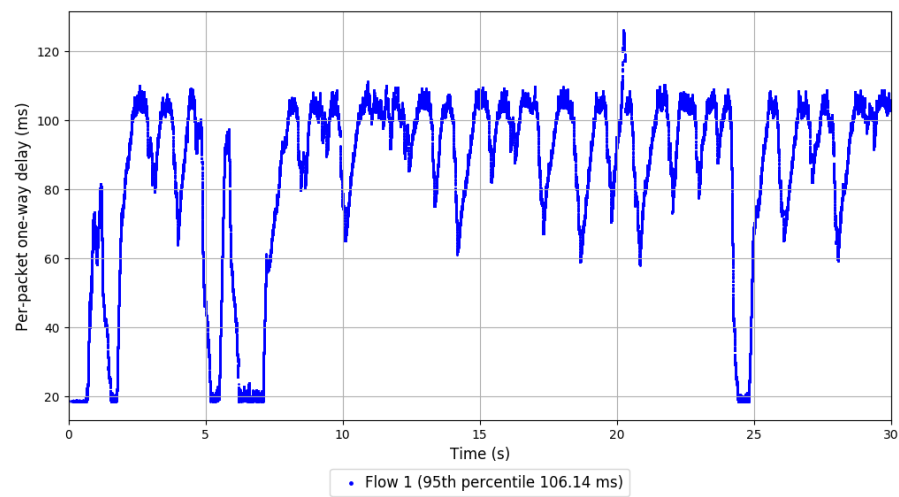
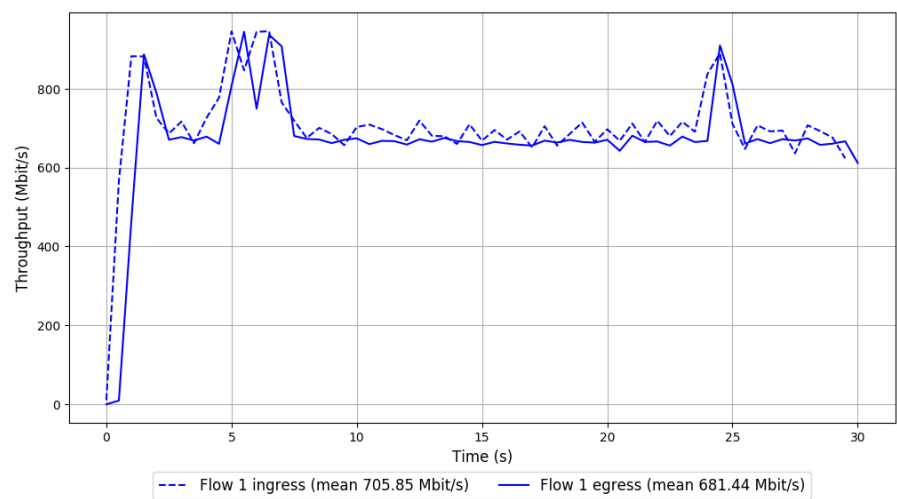
-- Flow 1:

Average throughput: 681.44 Mbit/s

95th percentile per-packet one-way delay: 106.141 ms

Loss rate: 3.46%

Run 10: Report of FillP — Data Link

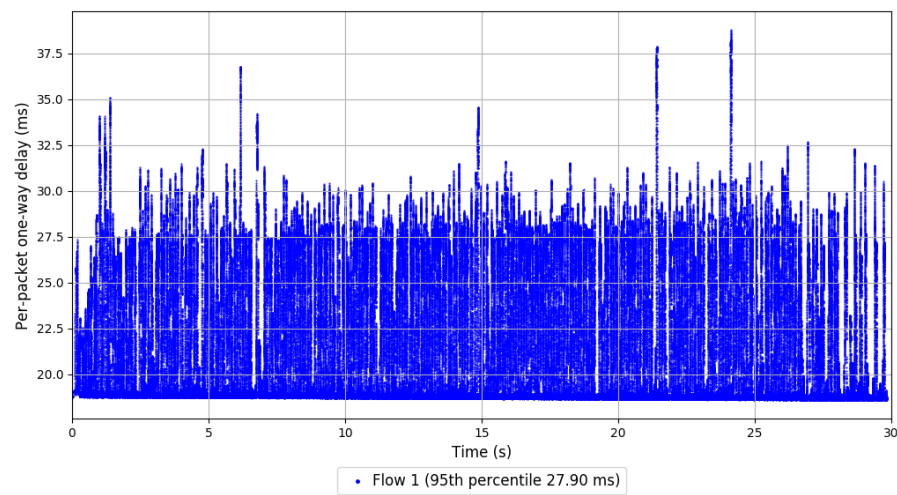
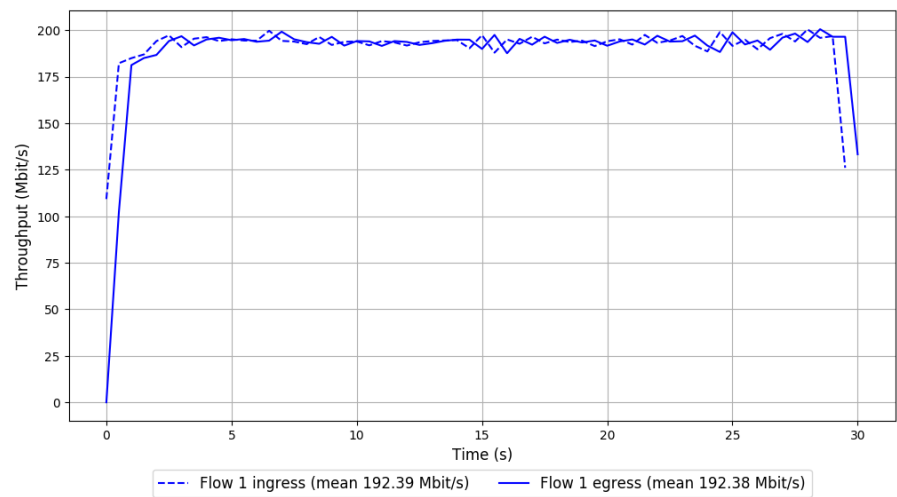


```
Run 1: Statistics of Indigo

Start at: 2018-06-18 08:47:26
End at: 2018-06-18 08:47:56
Local clock offset: 2.801 ms
Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2018-06-18 13:46:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.38 Mbit/s
95th percentile per-packet one-way delay: 27.902 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 192.38 Mbit/s
95th percentile per-packet one-way delay: 27.902 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-18 09:11:38

End at: 2018-06-18 09:12:08

Local clock offset: 3.121 ms

Remote clock offset: 4.205 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 109.51 Mbit/s

95th percentile per-packet one-way delay: 19.503 ms

Loss rate: 0.00%

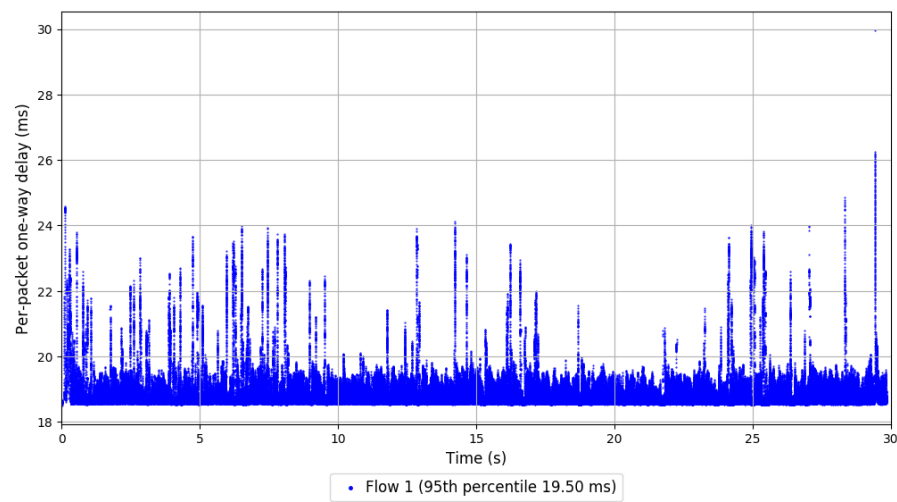
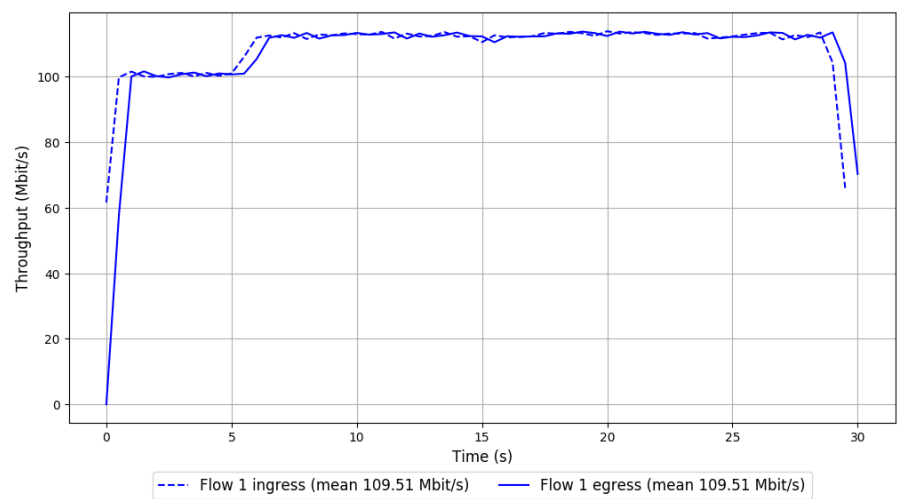
-- Flow 1:

Average throughput: 109.51 Mbit/s

95th percentile per-packet one-way delay: 19.503 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-18 09:35:38

End at: 2018-06-18 09:36:08

Local clock offset: 3.29 ms

Remote clock offset: 5.846 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 204.06 Mbit/s

95th percentile per-packet one-way delay: 24.194 ms

Loss rate: 0.00%

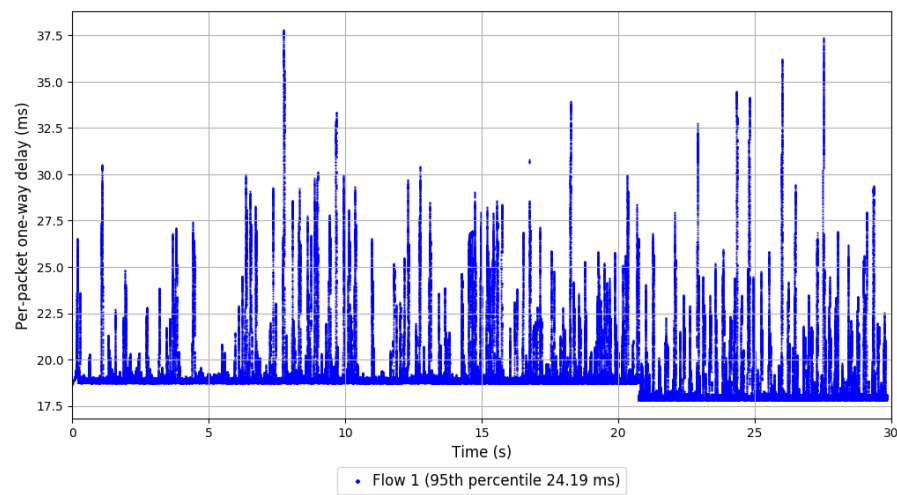
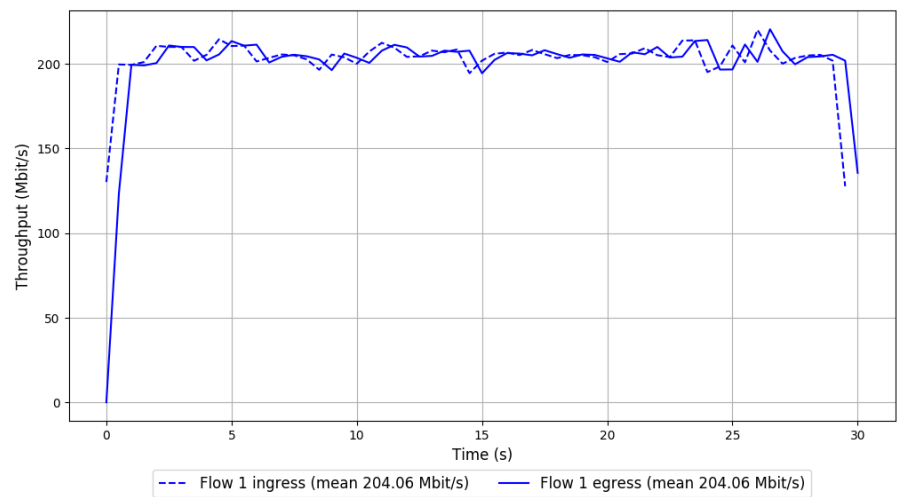
-- Flow 1:

Average throughput: 204.06 Mbit/s

95th percentile per-packet one-way delay: 24.194 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-18 09:59:50

End at: 2018-06-18 10:00:20

Local clock offset: 3.426 ms

Remote clock offset: 2.807 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 204.88 Mbit/s

95th percentile per-packet one-way delay: 20.406 ms

Loss rate: 0.00%

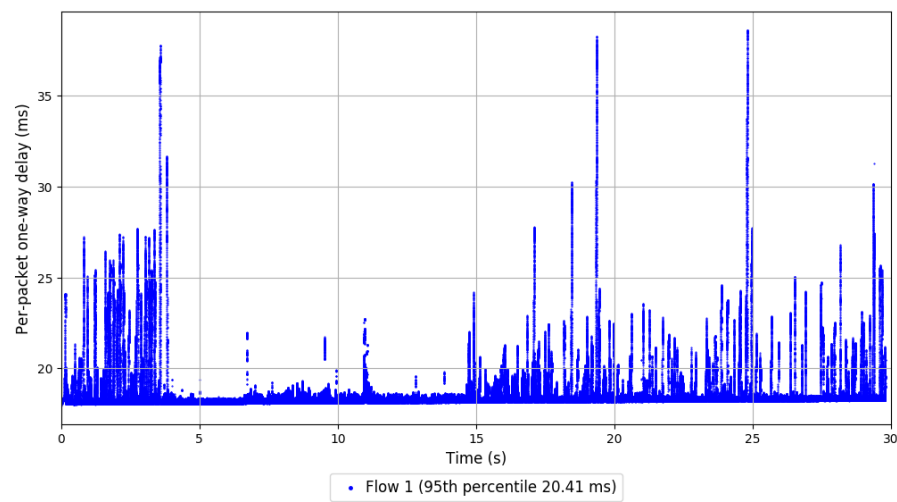
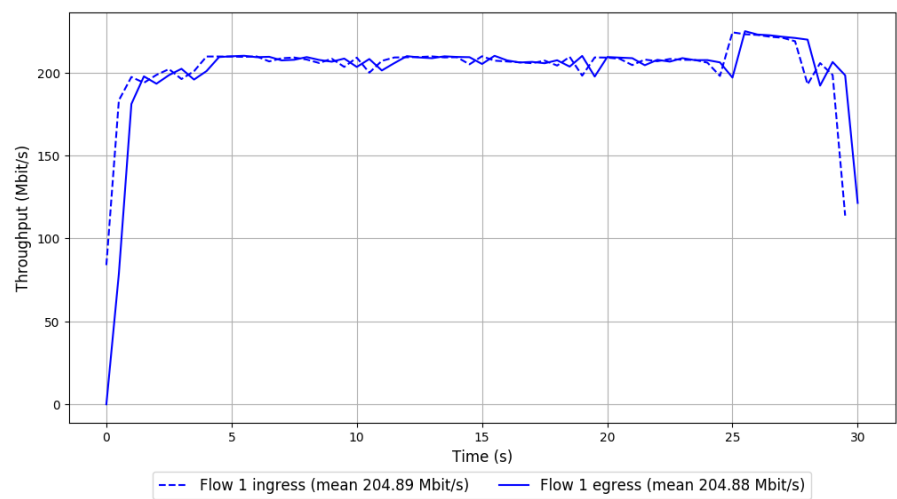
-- Flow 1:

Average throughput: 204.88 Mbit/s

95th percentile per-packet one-way delay: 20.406 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-18 10:23:58

End at: 2018-06-18 10:24:29

Local clock offset: 4.182 ms

Remote clock offset: -1.866 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.12 Mbit/s

95th percentile per-packet one-way delay: 24.867 ms

Loss rate: 0.00%

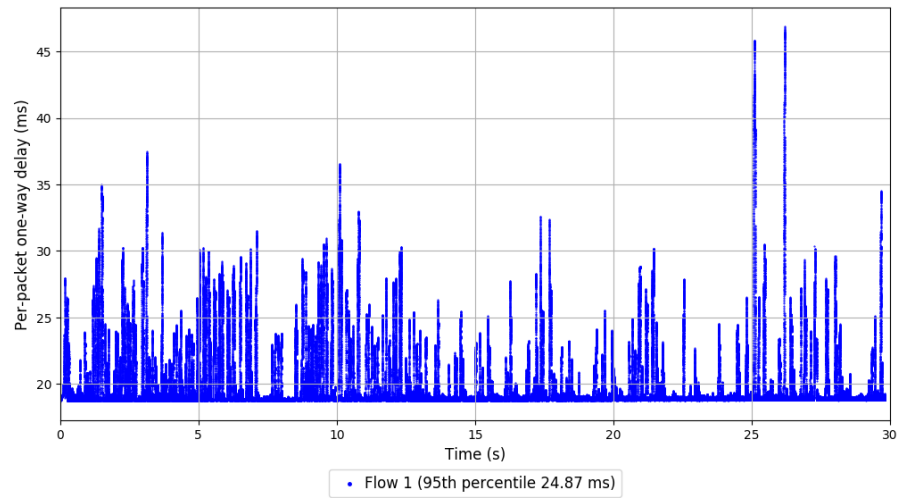
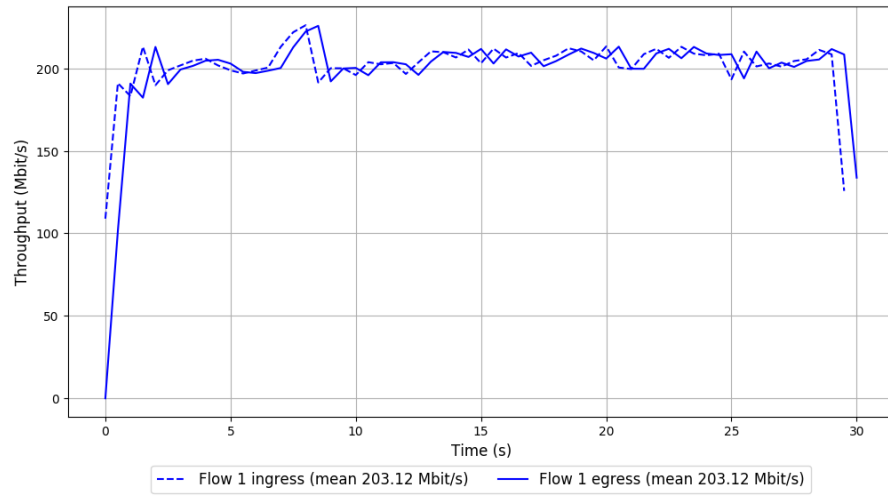
-- Flow 1:

Average throughput: 203.12 Mbit/s

95th percentile per-packet one-way delay: 24.867 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo

Start at: 2018-06-18 10:48:03

End at: 2018-06-18 10:48:33

Local clock offset: 3.655 ms

Remote clock offset: -0.975 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 204.12 Mbit/s

95th percentile per-packet one-way delay: 23.898 ms

Loss rate: 0.01%

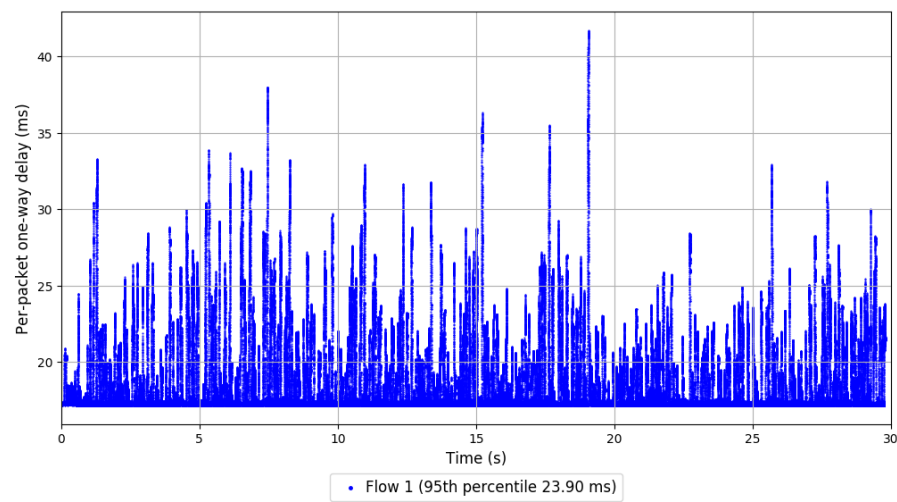
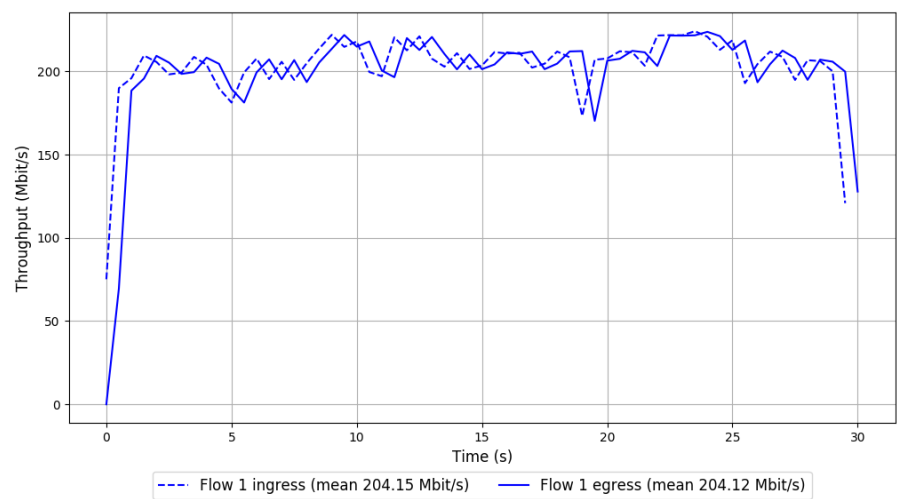
-- Flow 1:

Average throughput: 204.12 Mbit/s

95th percentile per-packet one-way delay: 23.898 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-18 11:12:16

End at: 2018-06-18 11:12:46

Local clock offset: 3.511 ms

Remote clock offset: 2.397 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 109.84 Mbit/s

95th percentile per-packet one-way delay: 20.636 ms

Loss rate: 0.00%

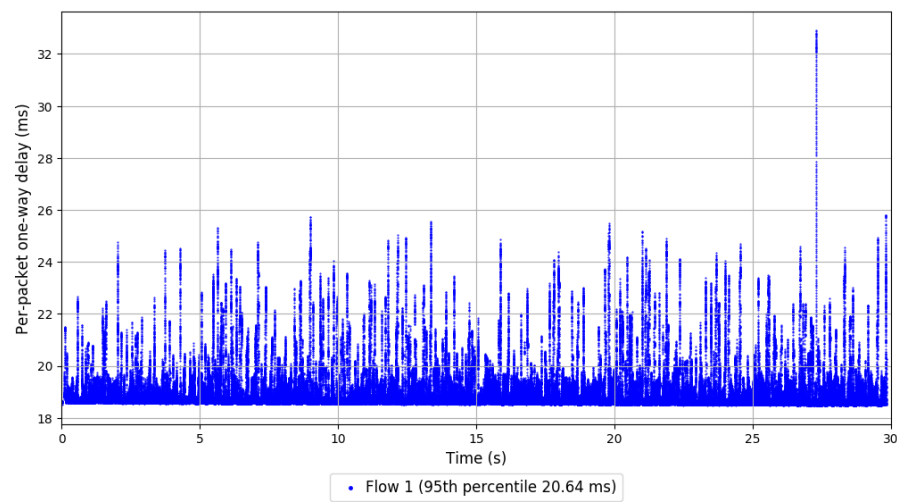
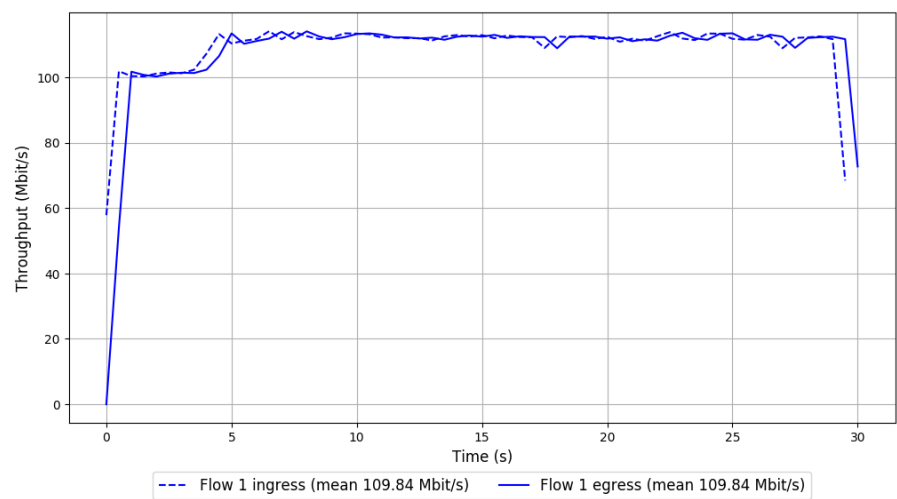
-- Flow 1:

Average throughput: 109.84 Mbit/s

95th percentile per-packet one-way delay: 20.636 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-18 11:36:07

End at: 2018-06-18 11:36:37

Local clock offset: 3.528 ms

Remote clock offset: 4.806 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.34 Mbit/s

95th percentile per-packet one-way delay: 24.486 ms

Loss rate: 0.04%

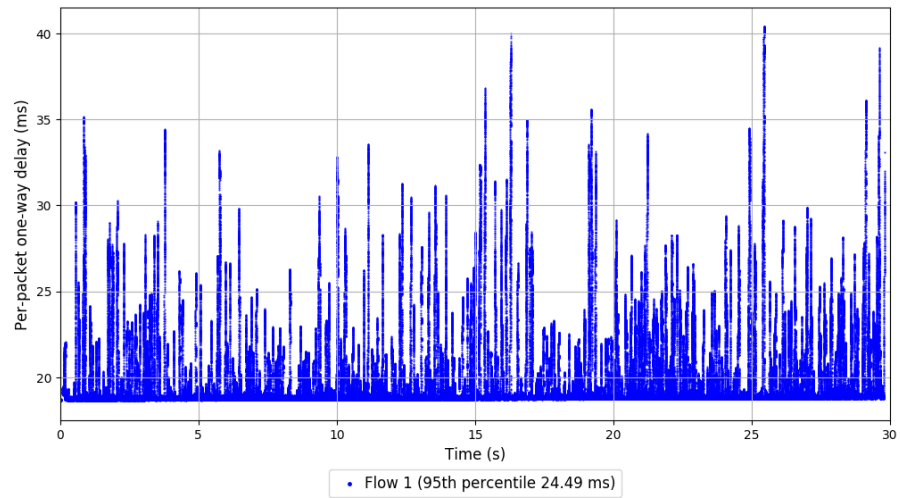
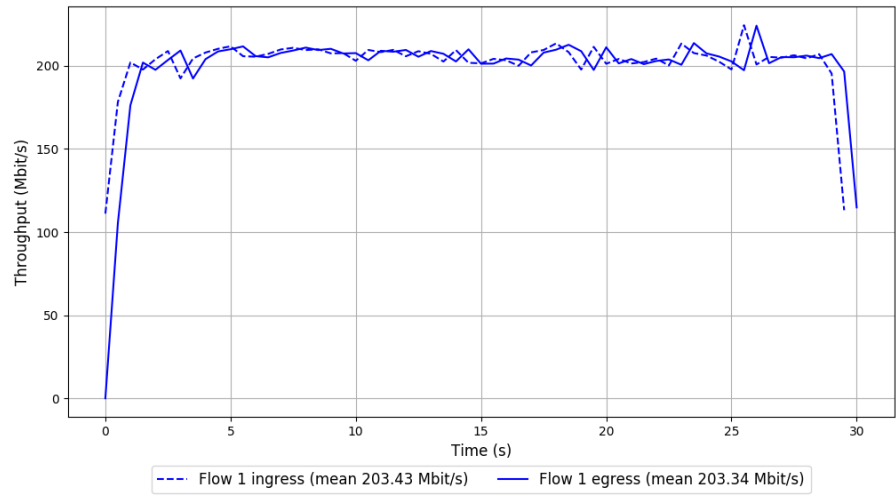
-- Flow 1:

Average throughput: 203.34 Mbit/s

95th percentile per-packet one-way delay: 24.486 ms

Loss rate: 0.04%

### Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-18 11:59:51

End at: 2018-06-18 12:00:21

Local clock offset: 3.735 ms

Remote clock offset: 3.446 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.97 Mbit/s

95th percentile per-packet one-way delay: 23.454 ms

Loss rate: 0.01%

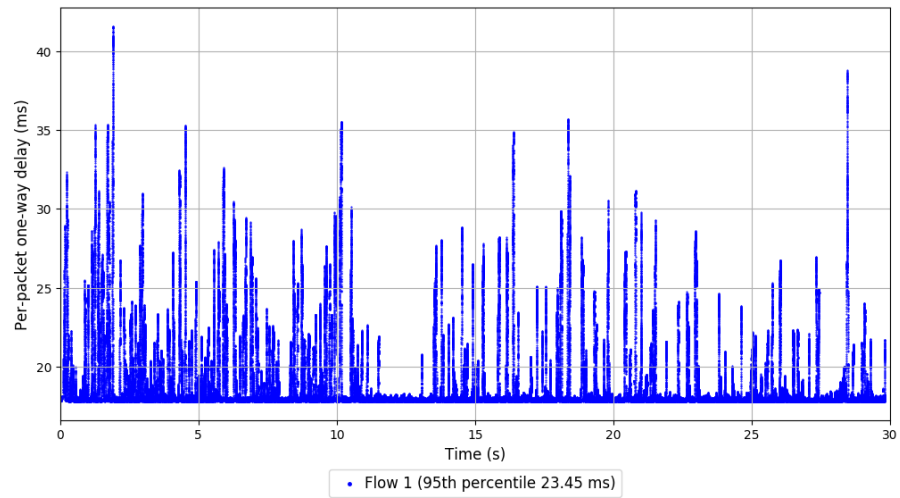
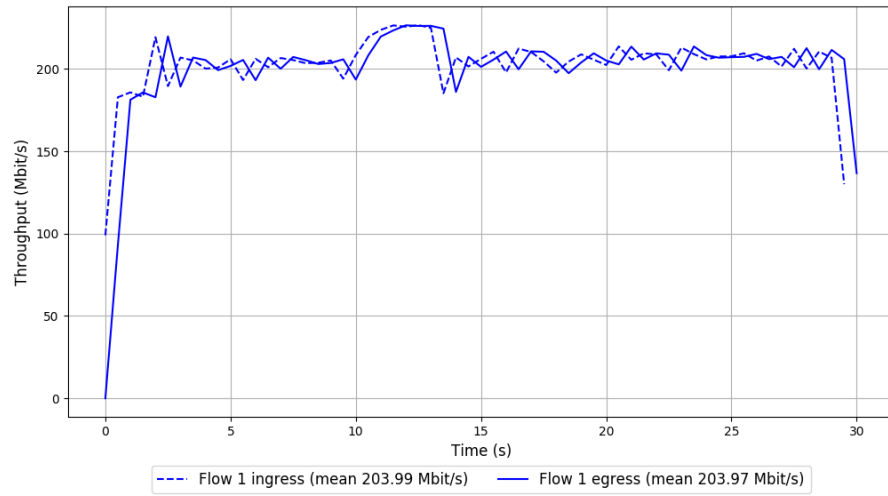
-- Flow 1:

Average throughput: 203.97 Mbit/s

95th percentile per-packet one-way delay: 23.454 ms

Loss rate: 0.01%

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



Run 10: Statistics of Indigo

Start at: 2018-06-18 12:23:50

End at: 2018-06-18 12:24:20

Local clock offset: 3.656 ms

Remote clock offset: 2.581 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 197.61 Mbit/s

95th percentile per-packet one-way delay: 26.289 ms

Loss rate: 0.00%

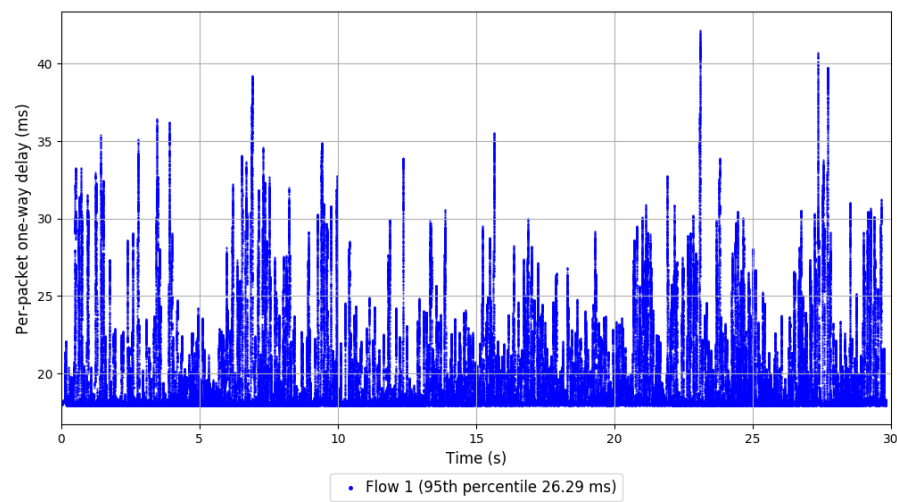
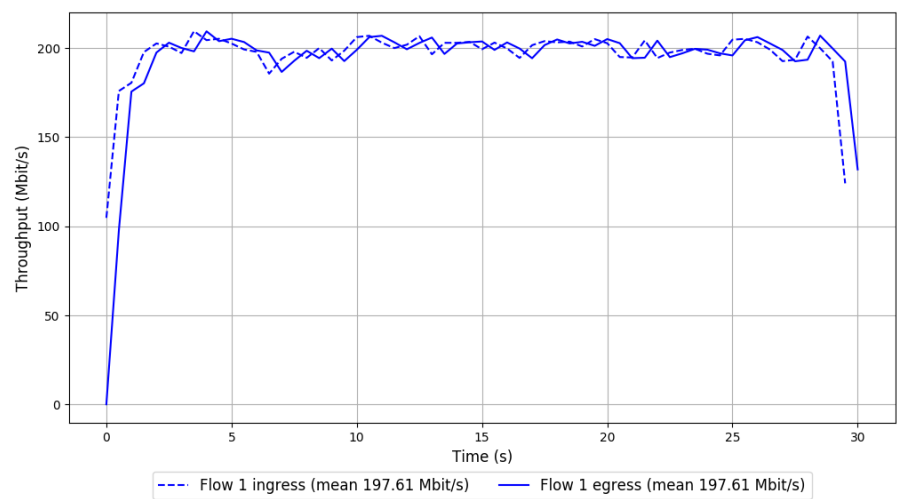
-- Flow 1:

Average throughput: 197.61 Mbit/s

95th percentile per-packet one-way delay: 26.289 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-06-18 09:05:39

End at: 2018-06-18 09:06:09

Local clock offset: 2.725 ms

Remote clock offset: 3.676 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 391.69 Mbit/s

95th percentile per-packet one-way delay: 19.162 ms

Loss rate: 0.00%

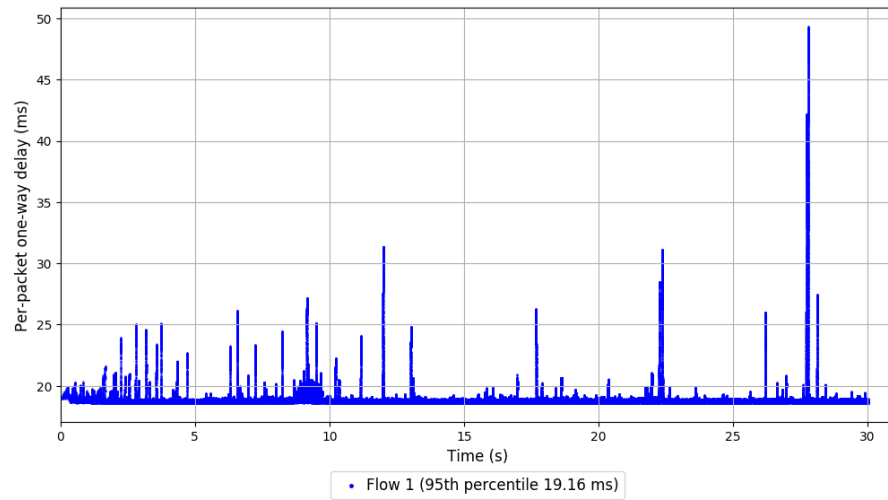
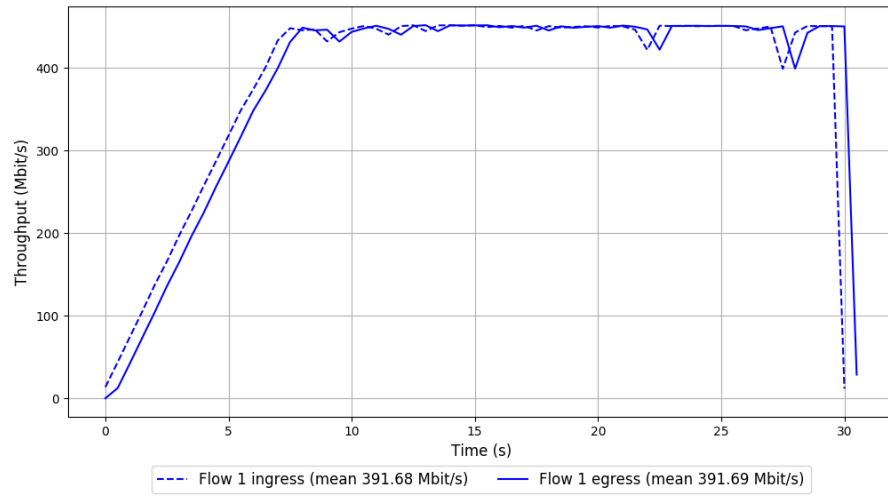
-- Flow 1:

Average throughput: 391.69 Mbit/s

95th percentile per-packet one-way delay: 19.162 ms

Loss rate: 0.00%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-18 09:29:40

End at: 2018-06-18 09:30:10

Local clock offset: 3.184 ms

Remote clock offset: 5.511 ms

# Below is generated by plot.py at 2018-06-18 13:46:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 388.01 Mbit/s

95th percentile per-packet one-way delay: 19.198 ms

Loss rate: 0.00%

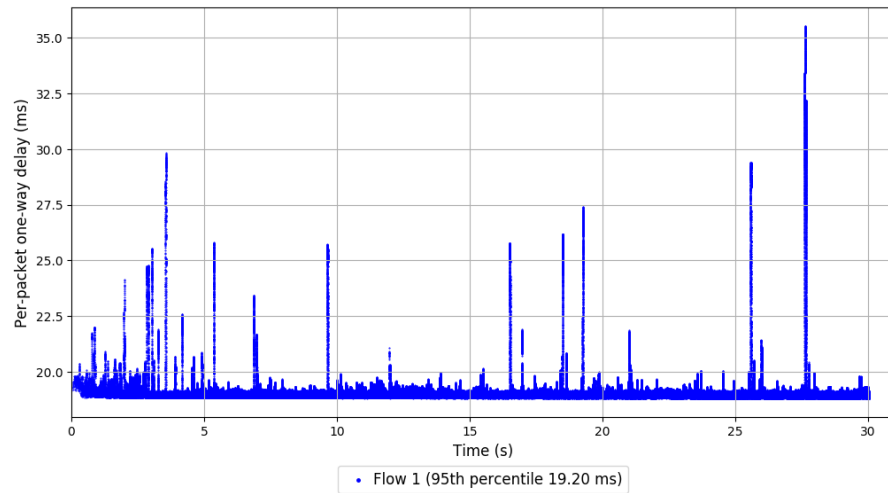
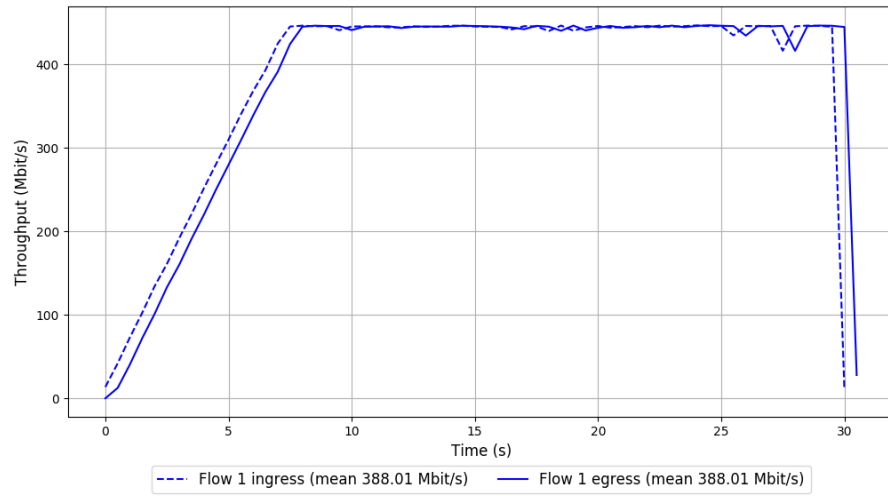
-- Flow 1:

Average throughput: 388.01 Mbit/s

95th percentile per-packet one-way delay: 19.198 ms

Loss rate: 0.00%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-18 09:53:52

End at: 2018-06-18 09:54:22

Local clock offset: 3.518 ms

Remote clock offset: 6.681 ms

# Below is generated by plot.py at 2018-06-18 13:47:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 391.52 Mbit/s

95th percentile per-packet one-way delay: 19.656 ms

Loss rate: 0.00%

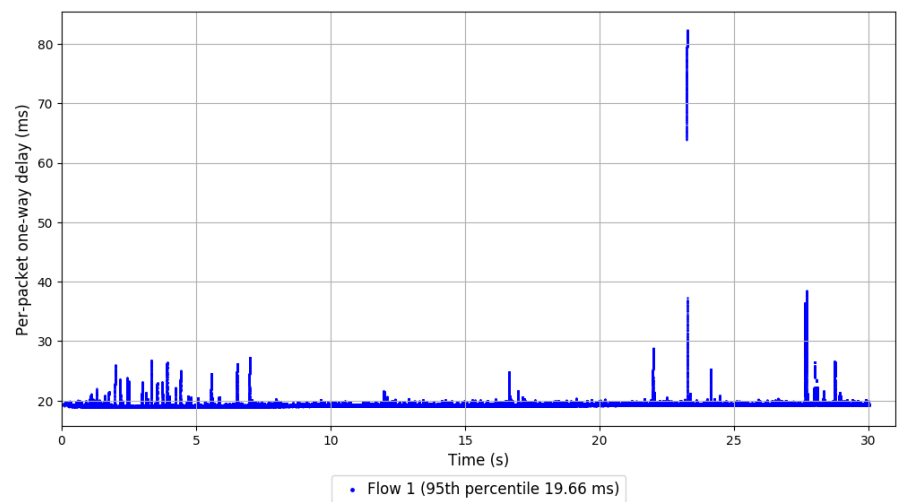
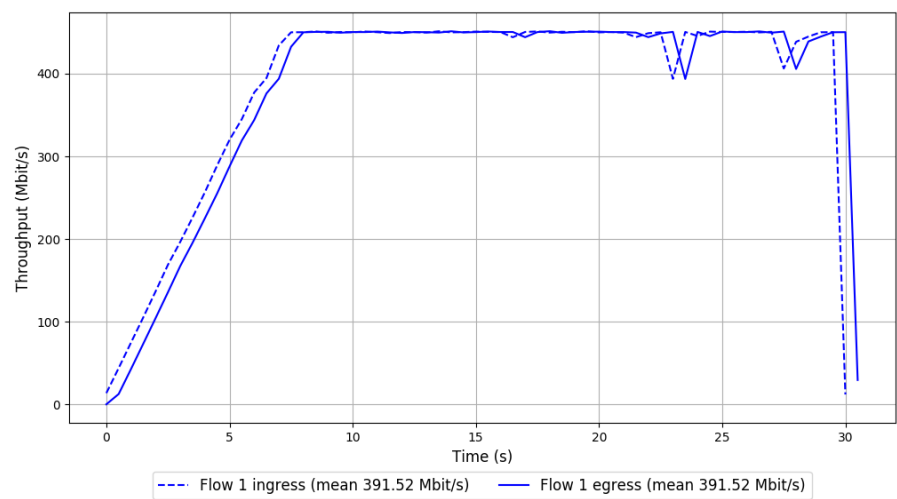
-- Flow 1:

Average throughput: 391.52 Mbit/s

95th percentile per-packet one-way delay: 19.656 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

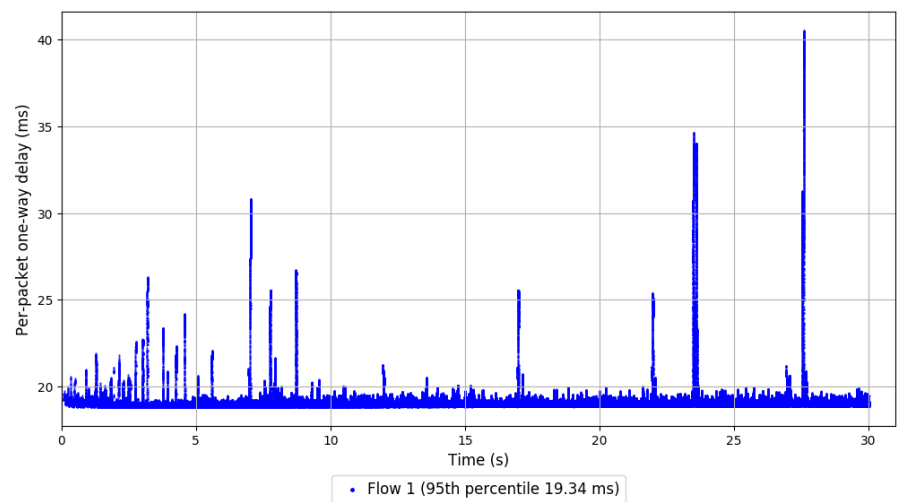
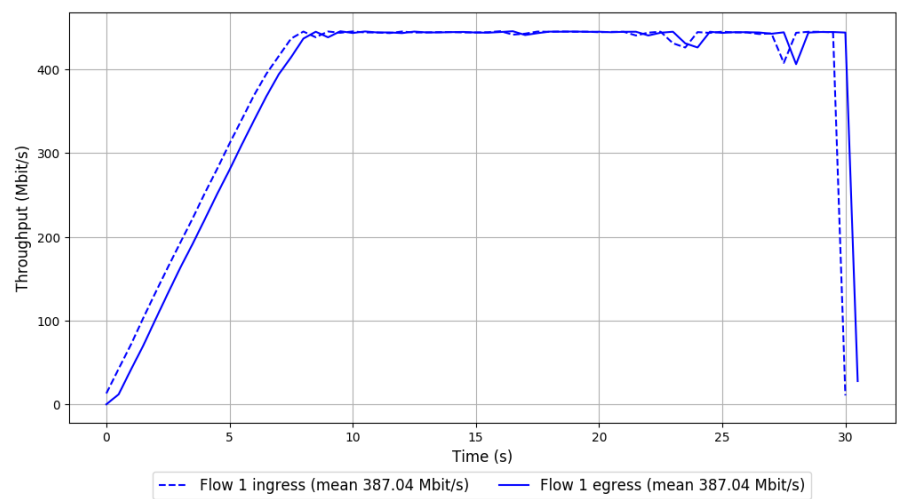


Run 4: Statistics of LEDBAT

Start at: 2018-06-18 10:18:05  
End at: 2018-06-18 10:18:35  
Local clock offset: 4.072 ms  
Remote clock offset: -1.239 ms

# Below is generated by plot.py at 2018-06-18 13:47:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 387.04 Mbit/s  
95th percentile per-packet one-way delay: 19.337 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 387.04 Mbit/s  
95th percentile per-packet one-way delay: 19.337 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

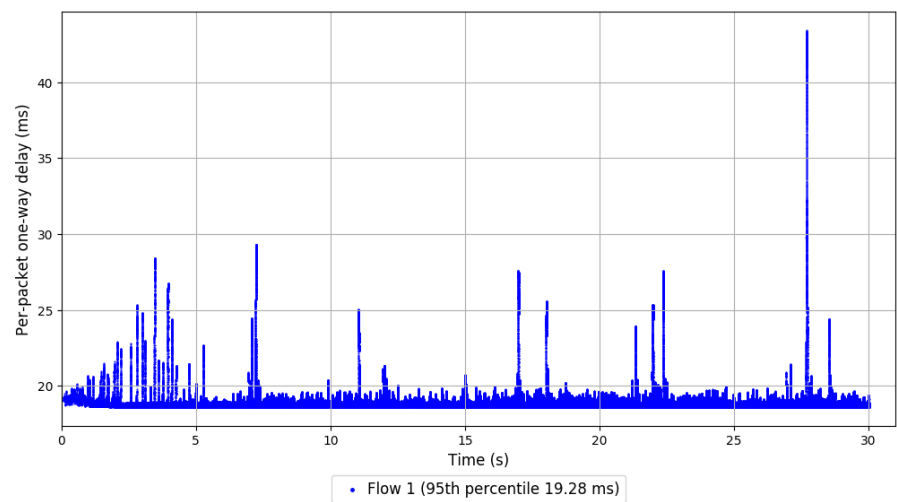
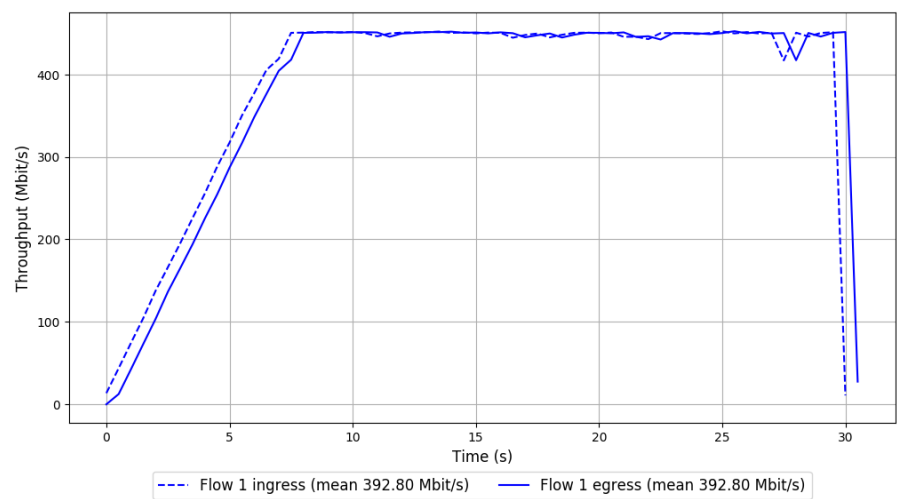


Run 5: Statistics of LEDBAT

Start at: 2018-06-18 10:42:06  
End at: 2018-06-18 10:42:36  
Local clock offset: 3.742 ms  
Remote clock offset: -0.955 ms

# Below is generated by plot.py at 2018-06-18 13:47:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 392.80 Mbit/s  
95th percentile per-packet one-way delay: 19.280 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 392.80 Mbit/s  
95th percentile per-packet one-way delay: 19.280 ms  
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-18 11:06:19

End at: 2018-06-18 11:06:49

Local clock offset: 3.481 ms

Remote clock offset: 0.766 ms

# Below is generated by plot.py at 2018-06-18 13:48:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 375.29 Mbit/s

95th percentile per-packet one-way delay: 19.061 ms

Loss rate: 0.00%

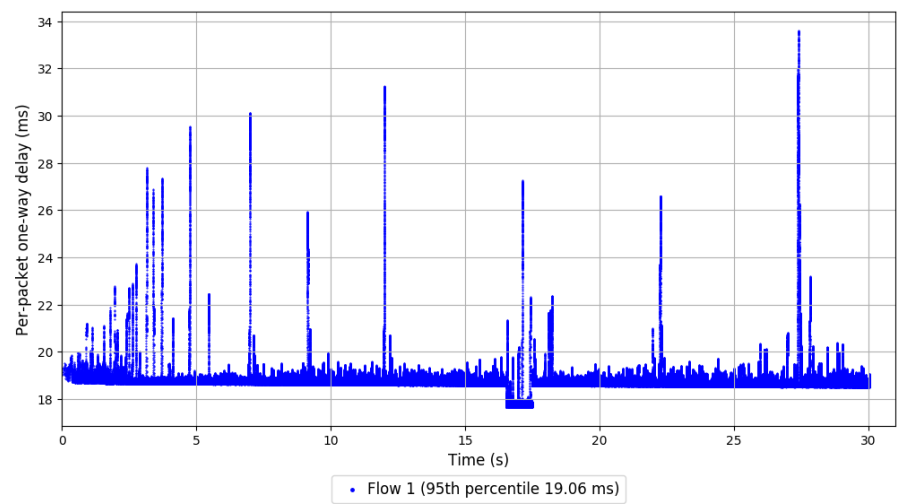
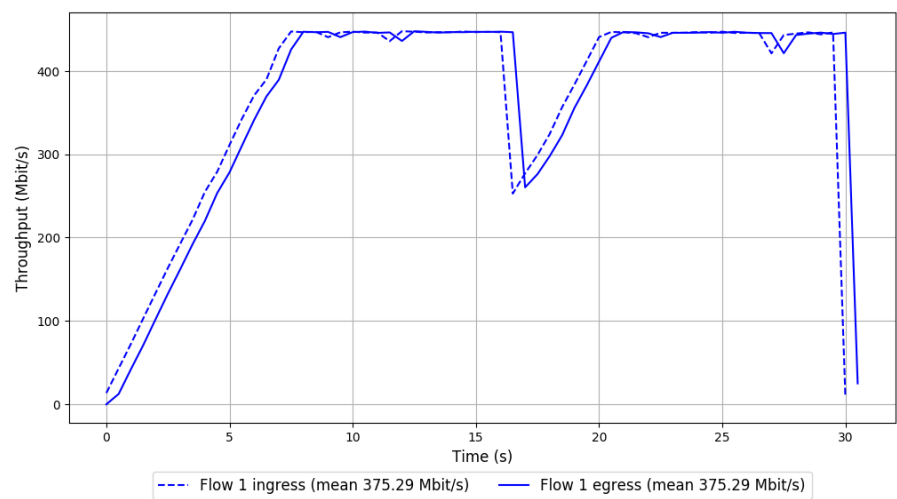
-- Flow 1:

Average throughput: 375.29 Mbit/s

95th percentile per-packet one-way delay: 19.061 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

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

End at: 2018-06-18 11:30:48

Local clock offset: 3.501 ms

Remote clock offset: 4.533 ms

# Below is generated by plot.py at 2018-06-18 13:49:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 287.38 Mbit/s

95th percentile per-packet one-way delay: 18.209 ms

Loss rate: 0.00%

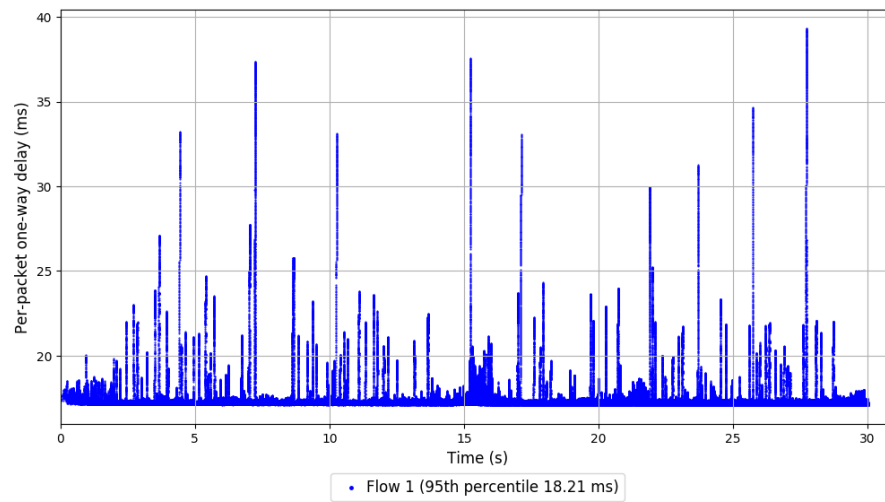
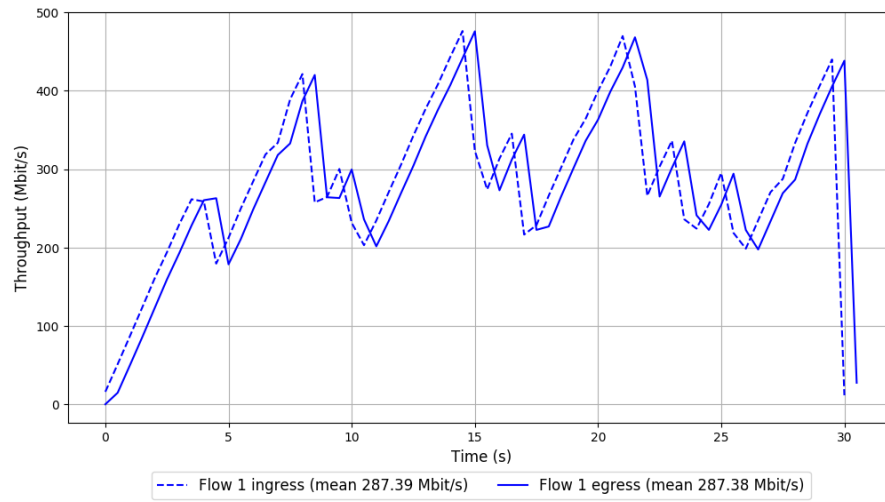
-- Flow 1:

Average throughput: 287.38 Mbit/s

95th percentile per-packet one-way delay: 18.209 ms

Loss rate: 0.00%

### Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-18 11:54:04

End at: 2018-06-18 11:54:34

Local clock offset: 3.723 ms

Remote clock offset: 3.465 ms

# Below is generated by plot.py at 2018-06-18 13:50:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 286.52 Mbit/s

95th percentile per-packet one-way delay: 18.526 ms

Loss rate: 0.01%

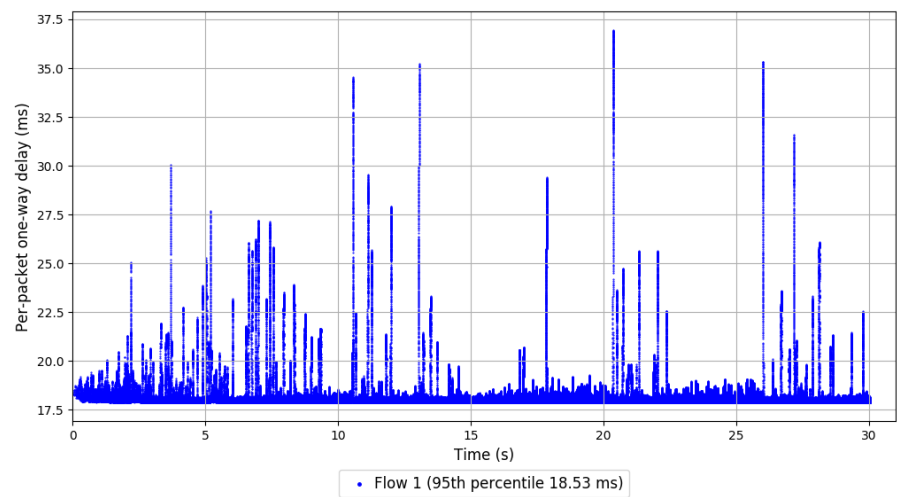
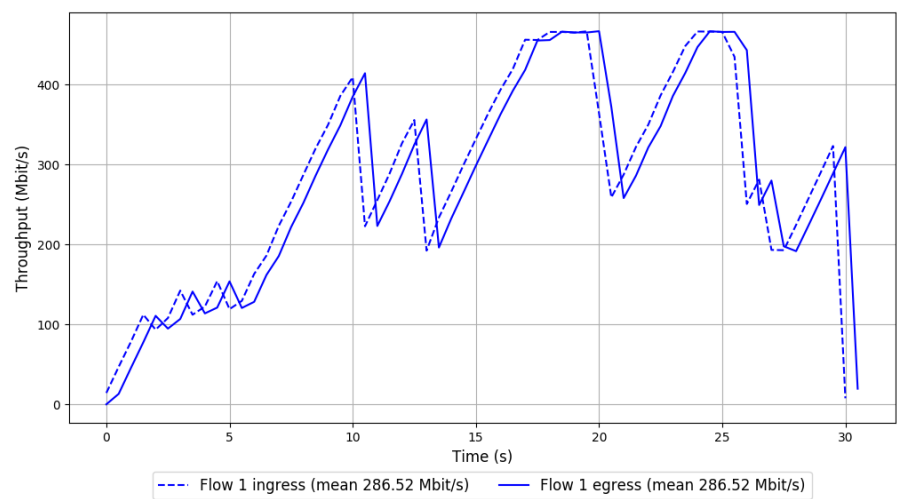
-- Flow 1:

Average throughput: 286.52 Mbit/s

95th percentile per-packet one-way delay: 18.526 ms

Loss rate: 0.01%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-18 12:17:52

End at: 2018-06-18 12:18:22

Local clock offset: 3.648 ms

Remote clock offset: 2.858 ms

# Below is generated by plot.py at 2018-06-18 13:51:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 400.27 Mbit/s

95th percentile per-packet one-way delay: 18.737 ms

Loss rate: 0.00%

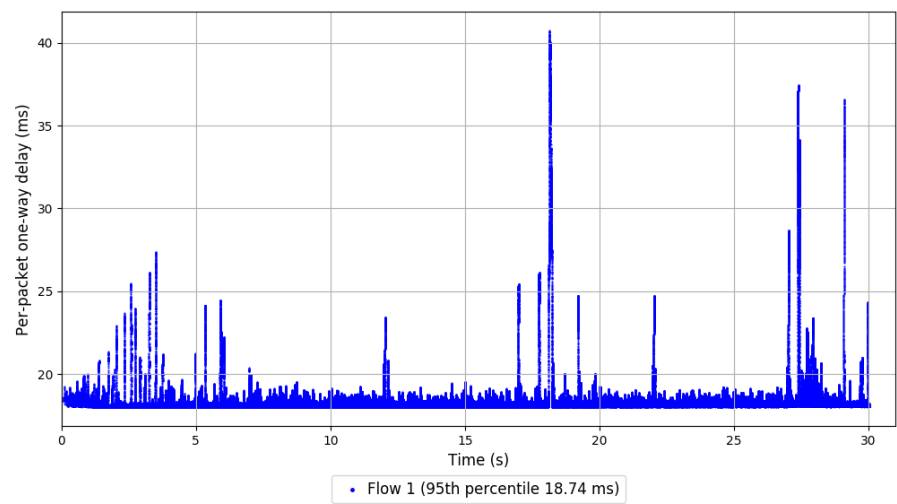
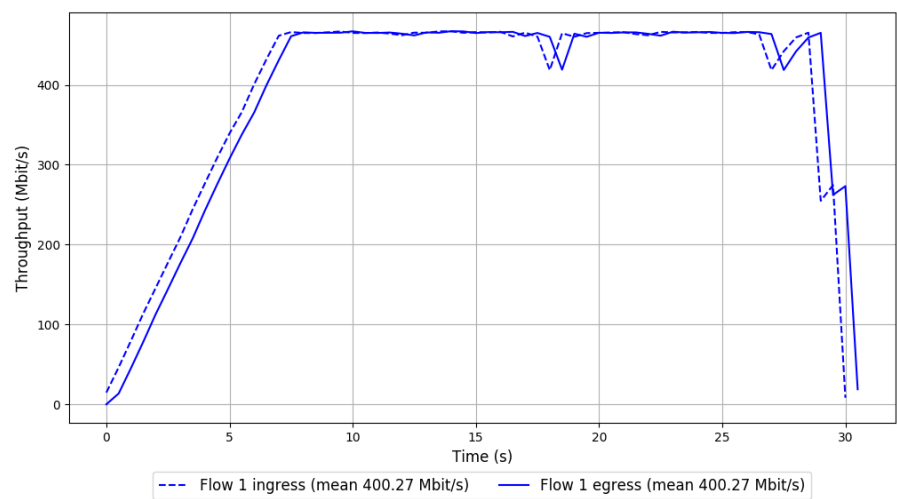
-- Flow 1:

Average throughput: 400.27 Mbit/s

95th percentile per-packet one-way delay: 18.737 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-18 12:41:54

End at: 2018-06-18 12:42:24

Local clock offset: 3.68 ms

Remote clock offset: 2.238 ms

# Below is generated by plot.py at 2018-06-18 13:51:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 390.86 Mbit/s

95th percentile per-packet one-way delay: 19.163 ms

Loss rate: 0.01%

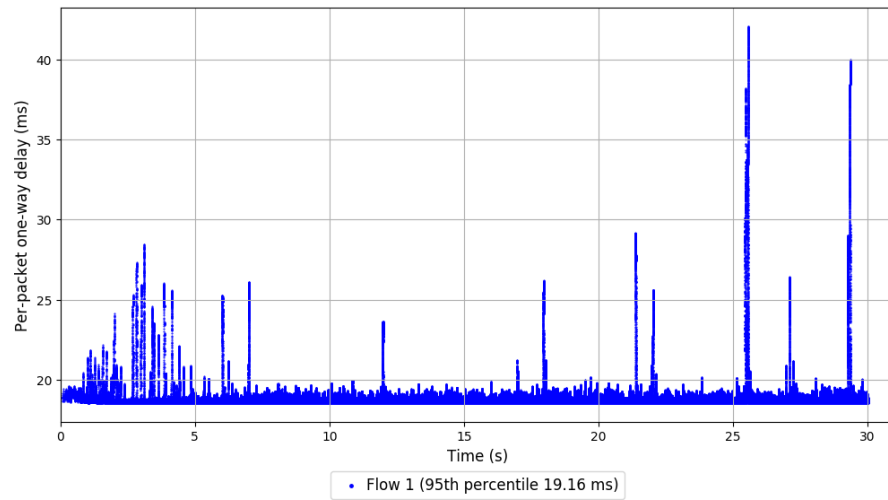
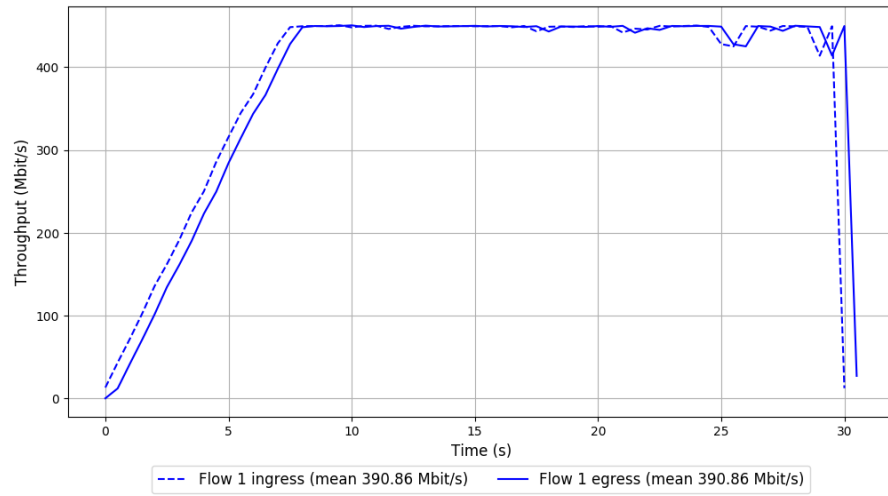
-- Flow 1:

Average throughput: 390.86 Mbit/s

95th percentile per-packet one-way delay: 19.163 ms

Loss rate: 0.01%

# Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-18 09:02:44

End at: 2018-06-18 09:03:14

Local clock offset: 2.617 ms

Remote clock offset: 3.36 ms

# Below is generated by plot.py at 2018-06-18 13:57:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 875.94 Mbit/s

95th percentile per-packet one-way delay: 56.019 ms

Loss rate: 0.65%

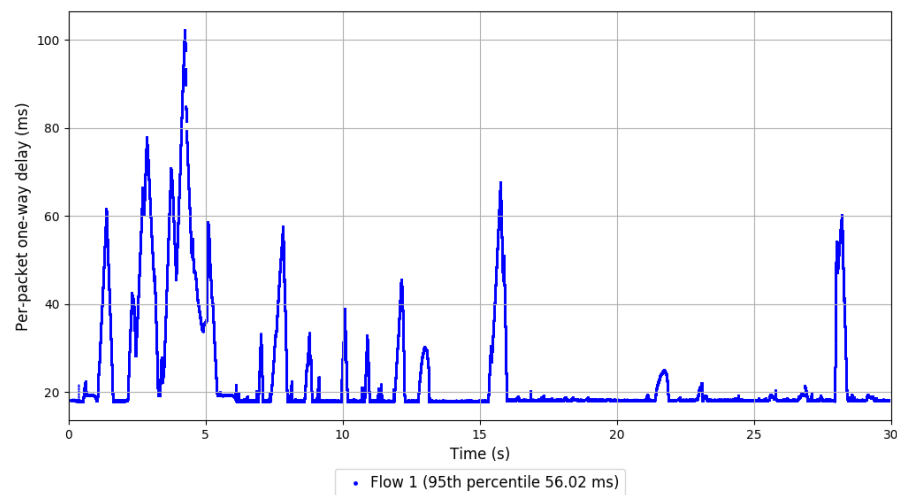
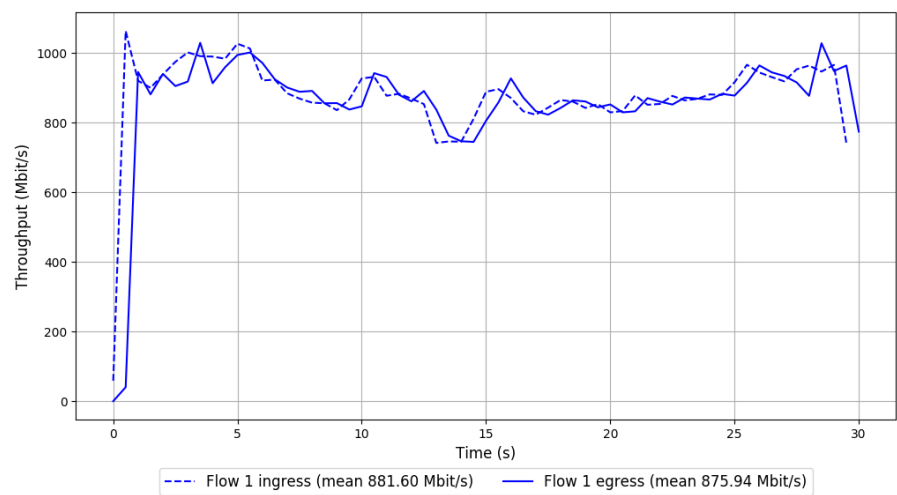
-- Flow 1:

Average throughput: 875.94 Mbit/s

95th percentile per-packet one-way delay: 56.019 ms

Loss rate: 0.65%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-18 09:26:44

End at: 2018-06-18 09:27:15

Local clock offset: 3.286 ms

Remote clock offset: 5.282 ms

# Below is generated by plot.py at 2018-06-18 13:58:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 909.61 Mbit/s

95th percentile per-packet one-way delay: 32.491 ms

Loss rate: 0.54%

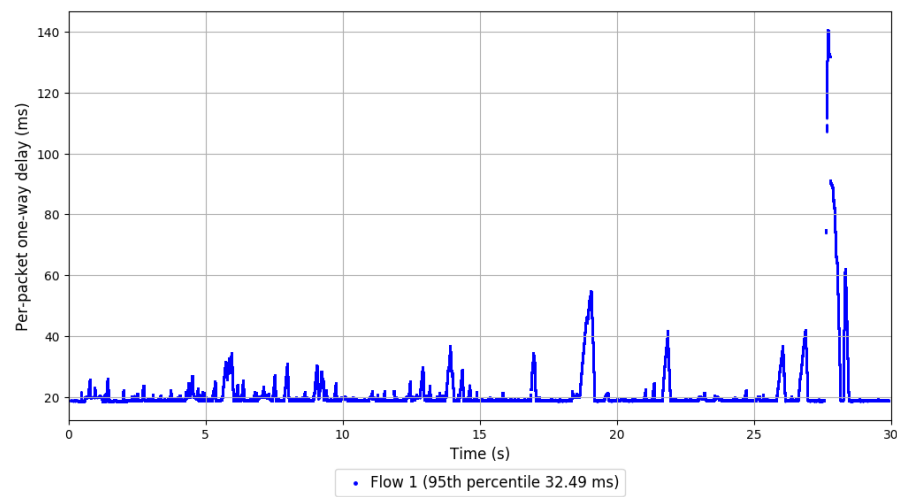
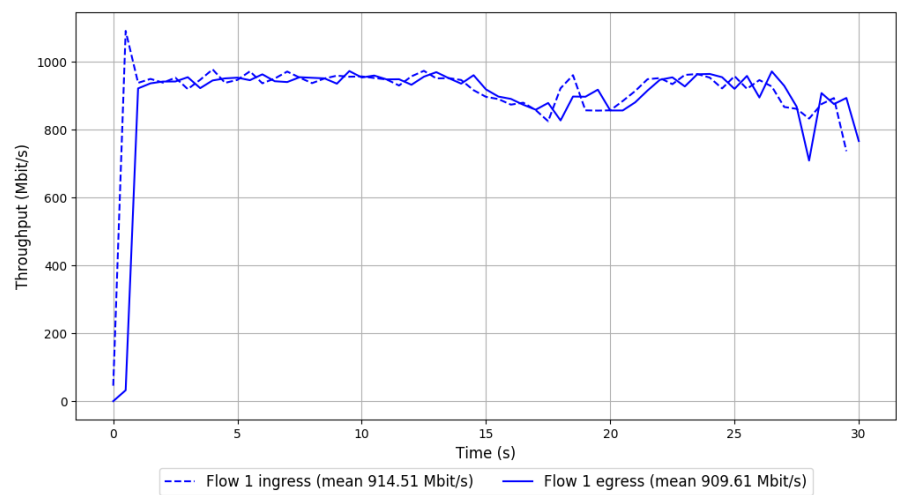
-- Flow 1:

Average throughput: 909.61 Mbit/s

95th percentile per-packet one-way delay: 32.491 ms

Loss rate: 0.54%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-18 09:50:56

End at: 2018-06-18 09:51:27

Local clock offset: 3.441 ms

Remote clock offset: 6.921 ms

# Below is generated by plot.py at 2018-06-18 13:58:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 874.47 Mbit/s

95th percentile per-packet one-way delay: 23.062 ms

Loss rate: 0.28%

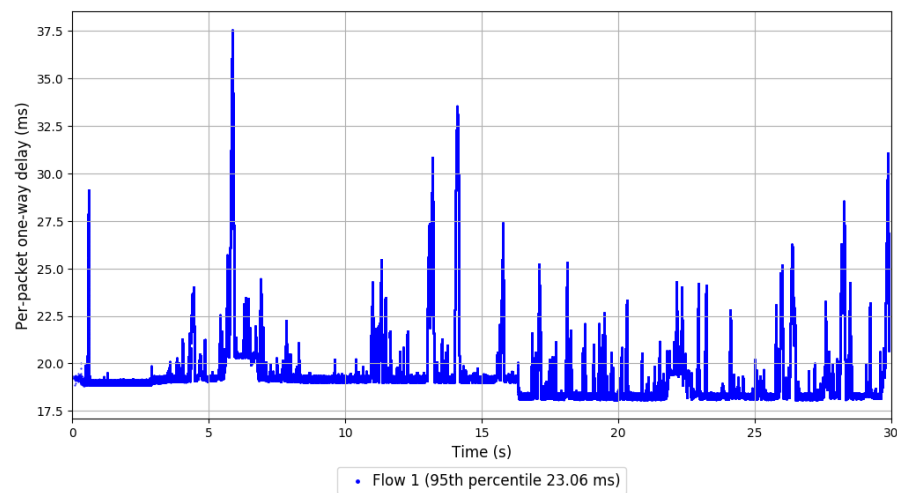
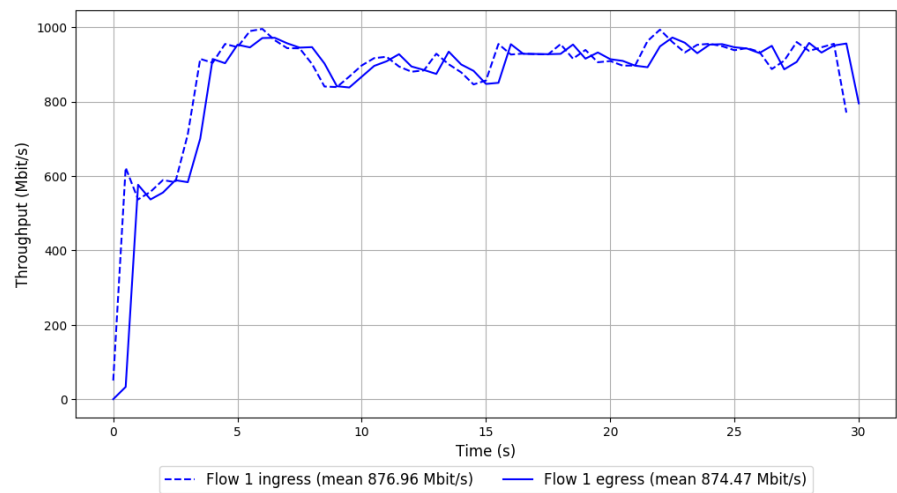
-- Flow 1:

Average throughput: 874.47 Mbit/s

95th percentile per-packet one-way delay: 23.062 ms

Loss rate: 0.28%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-18 10:15:09

End at: 2018-06-18 10:15:39

Local clock offset: 4.026 ms

Remote clock offset: -0.849 ms

# Below is generated by plot.py at 2018-06-18 13:58:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 902.91 Mbit/s

95th percentile per-packet one-way delay: 23.340 ms

Loss rate: 0.36%

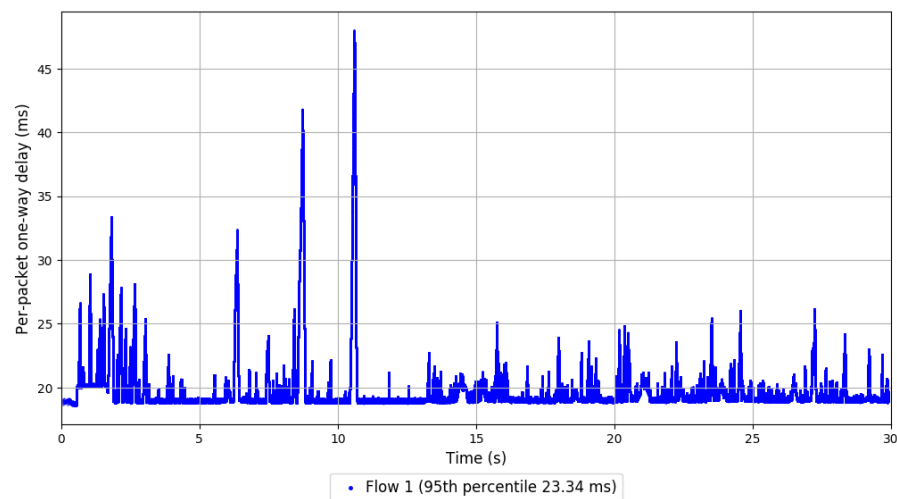
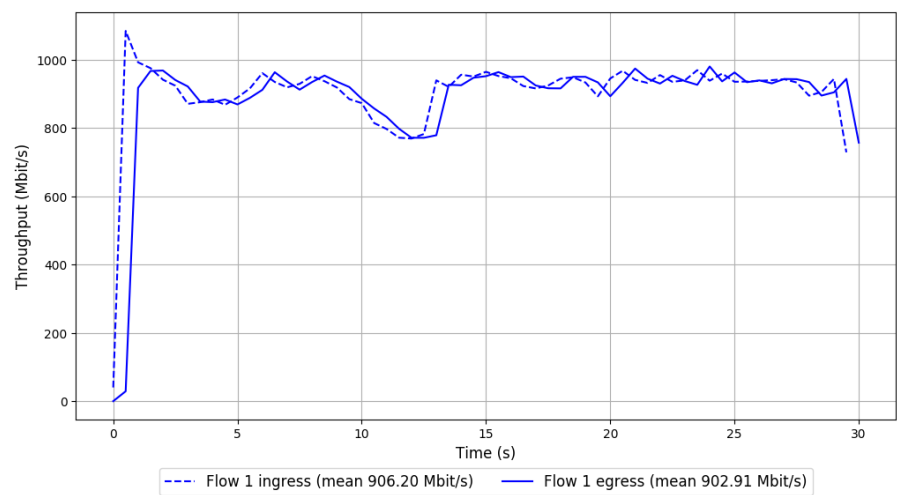
-- Flow 1:

Average throughput: 902.91 Mbit/s

95th percentile per-packet one-way delay: 23.340 ms

Loss rate: 0.36%

Run 4: Report of PCC-Allegro — Data Link

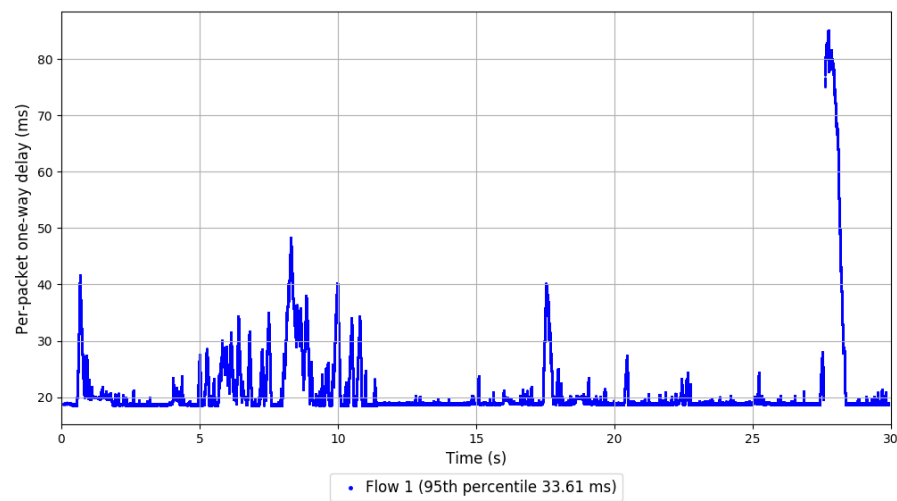
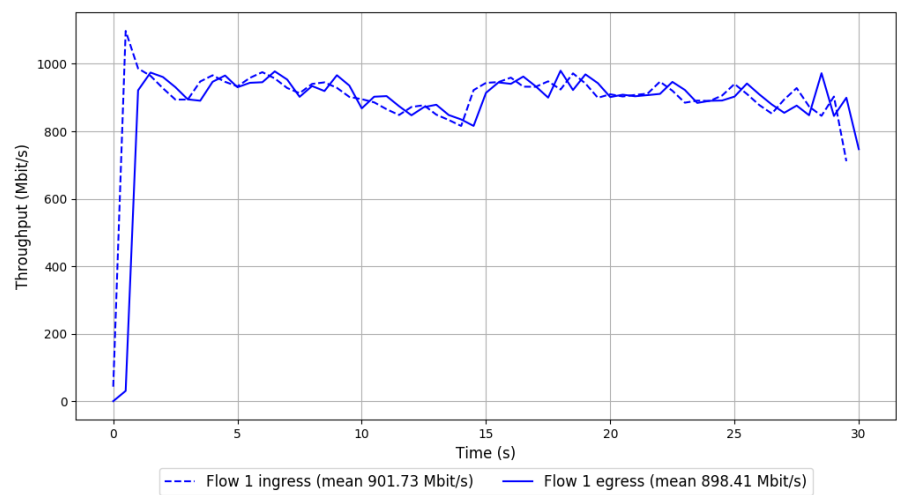


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-18 10:39:11  
End at: 2018-06-18 10:39:41  
Local clock offset: 3.962 ms  
Remote clock offset: -1.008 ms

# Below is generated by plot.py at 2018-06-18 14:00:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 898.41 Mbit/s  
95th percentile per-packet one-way delay: 33.607 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 898.41 Mbit/s  
95th percentile per-packet one-way delay: 33.607 ms  
Loss rate: 0.37%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-18 11:03:24

End at: 2018-06-18 11:03:54

Local clock offset: 3.444 ms

Remote clock offset: -0.471 ms

# Below is generated by plot.py at 2018-06-18 14:00:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 897.83 Mbit/s

95th percentile per-packet one-way delay: 37.942 ms

Loss rate: 0.27%

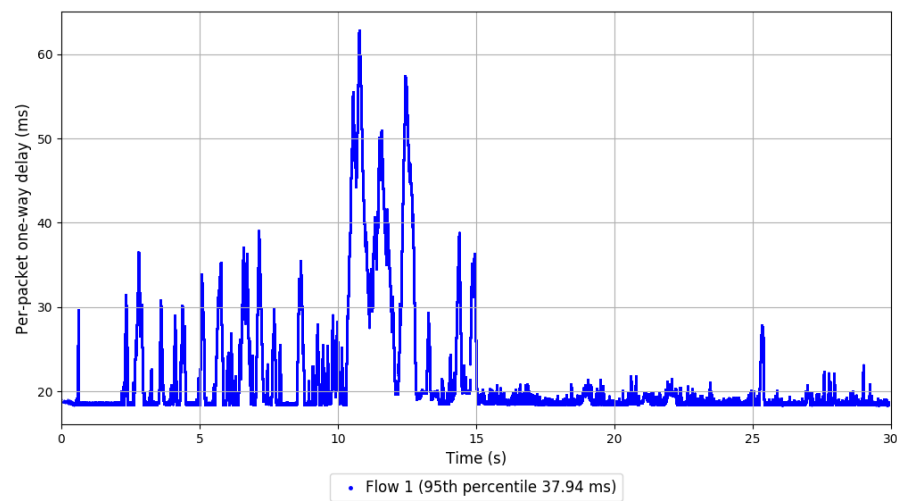
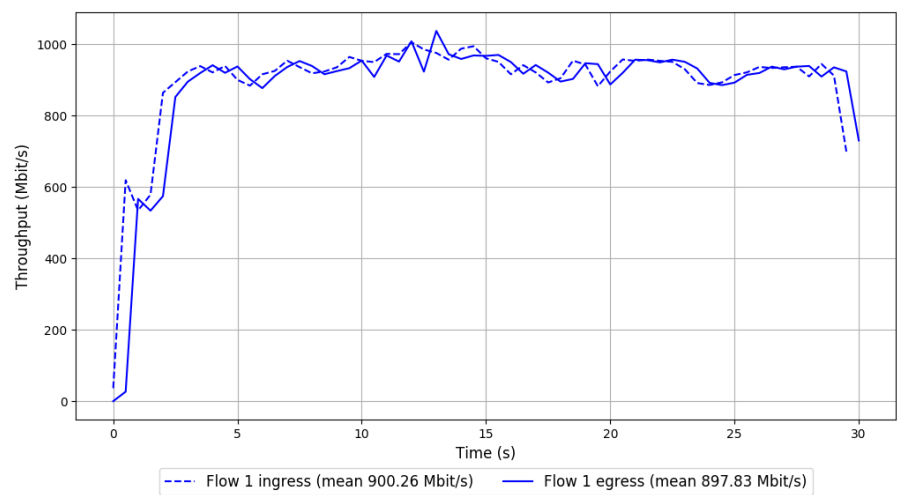
-- Flow 1:

Average throughput: 897.83 Mbit/s

95th percentile per-packet one-way delay: 37.942 ms

Loss rate: 0.27%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-18 11:27:22

End at: 2018-06-18 11:27:52

Local clock offset: 3.523 ms

Remote clock offset: 4.238 ms

# Below is generated by plot.py at 2018-06-18 14:02:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 919.49 Mbit/s

95th percentile per-packet one-way delay: 21.576 ms

Loss rate: 0.27%

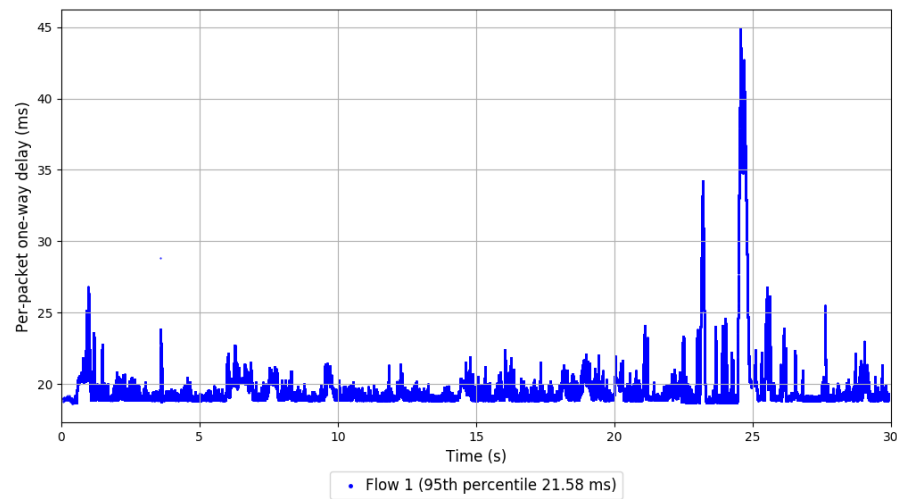
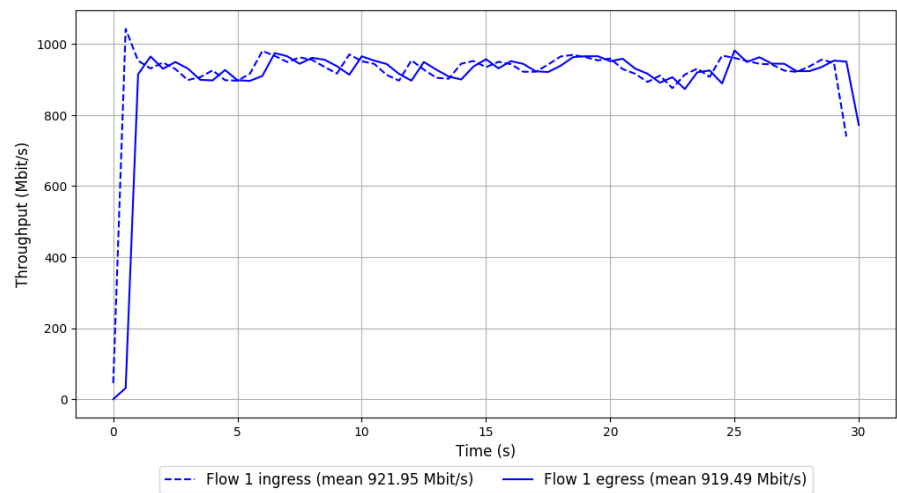
-- Flow 1:

Average throughput: 919.49 Mbit/s

95th percentile per-packet one-way delay: 21.576 ms

Loss rate: 0.27%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-18 11:51:09

End at: 2018-06-18 11:51:39

Local clock offset: 3.621 ms

Remote clock offset: 3.477 ms

# Below is generated by plot.py at 2018-06-18 14:02:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 902.24 Mbit/s

95th percentile per-packet one-way delay: 37.491 ms

Loss rate: 0.87%

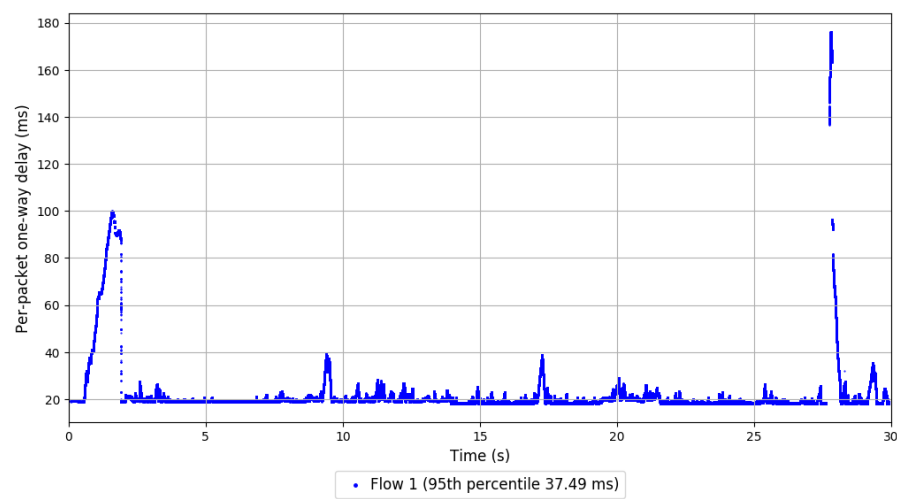
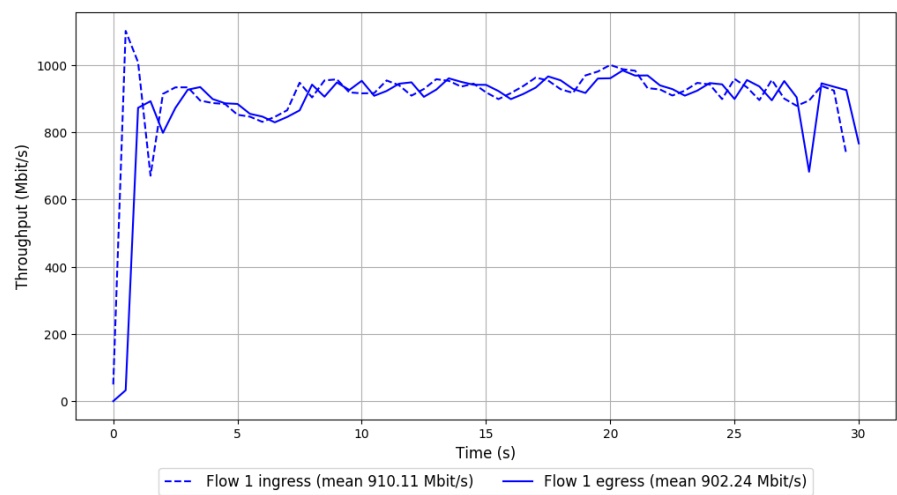
-- Flow 1:

Average throughput: 902.24 Mbit/s

95th percentile per-packet one-way delay: 37.491 ms

Loss rate: 0.87%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-18 12:14:57

End at: 2018-06-18 12:15:27

Local clock offset: 3.752 ms

Remote clock offset: 3.076 ms

# Below is generated by plot.py at 2018-06-18 14:08:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 871.51 Mbit/s

95th percentile per-packet one-way delay: 20.494 ms

Loss rate: 0.16%

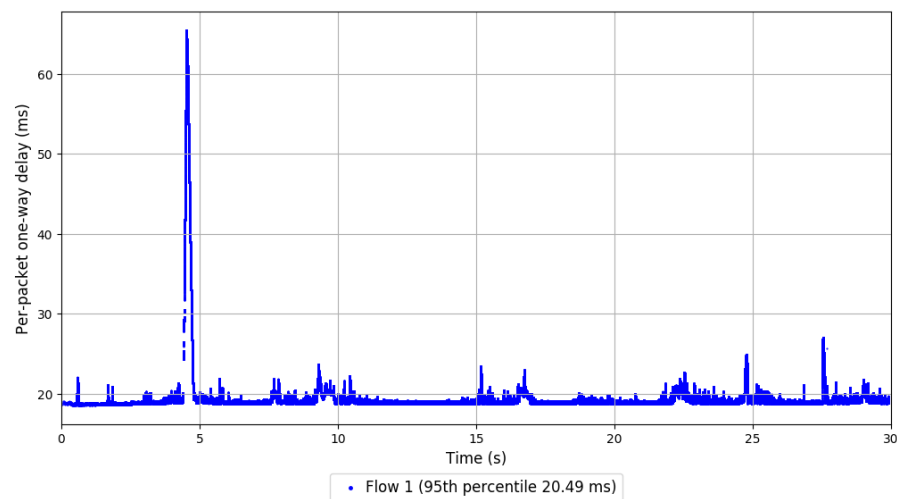
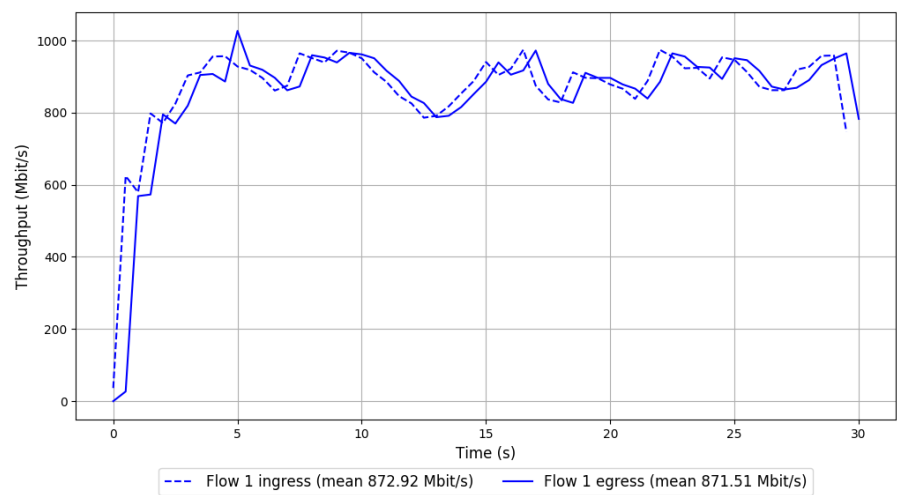
-- Flow 1:

Average throughput: 871.51 Mbit/s

95th percentile per-packet one-way delay: 20.494 ms

Loss rate: 0.16%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-18 12:38:58

End at: 2018-06-18 12:39:28

Local clock offset: 3.701 ms

Remote clock offset: 2.278 ms

# Below is generated by plot.py at 2018-06-18 14:09:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 913.19 Mbit/s

95th percentile per-packet one-way delay: 21.321 ms

Loss rate: 0.37%

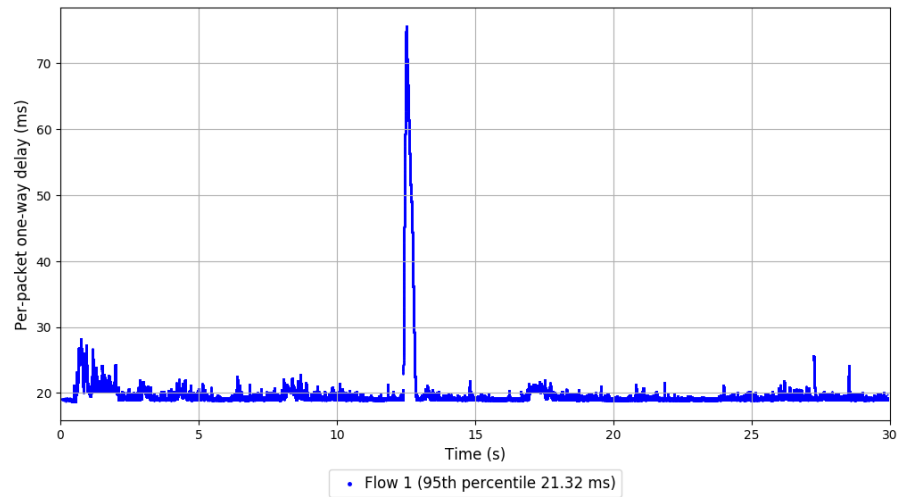
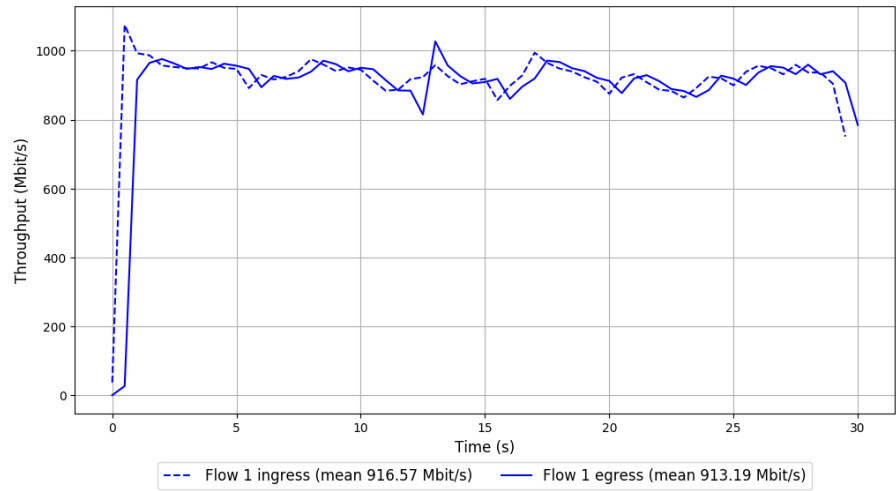
-- Flow 1:

Average throughput: 913.19 Mbit/s

95th percentile per-packet one-way delay: 21.321 ms

Loss rate: 0.37%

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

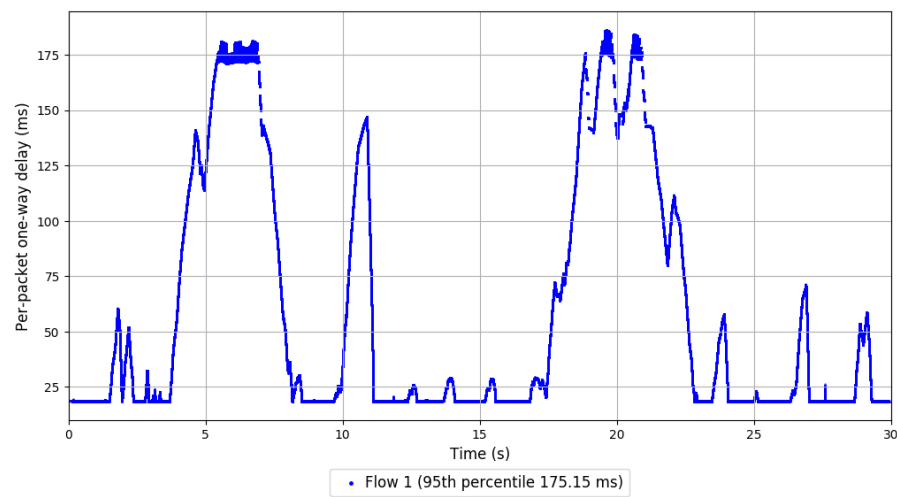
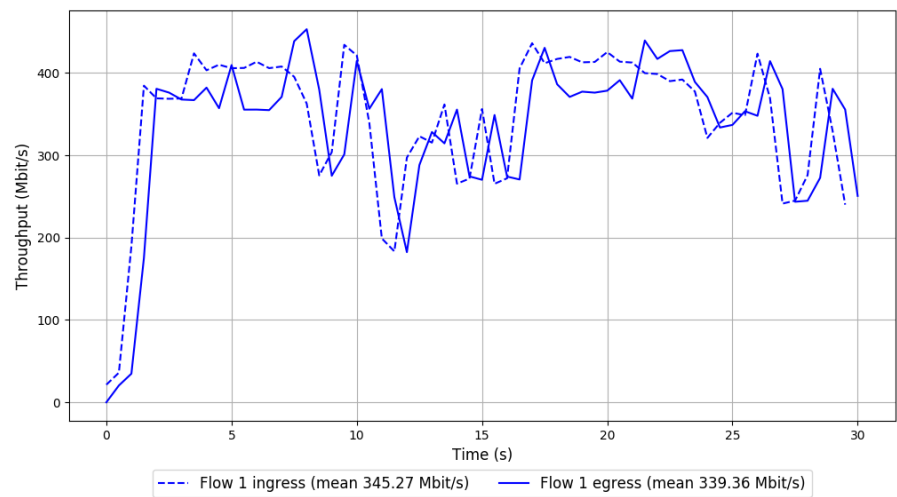


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-18 08:51:48
End at: 2018-06-18 08:52:18
Local clock offset: 2.825 ms
Remote clock offset: 1.483 ms

# Below is generated by plot.py at 2018-06-18 14:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.36 Mbit/s
95th percentile per-packet one-way delay: 175.146 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 339.36 Mbit/s
95th percentile per-packet one-way delay: 175.146 ms
Loss rate: 1.71%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-18 09:15:54

End at: 2018-06-18 09:16:24

Local clock offset: 3.254 ms

Remote clock offset: 4.558 ms

# Below is generated by plot.py at 2018-06-18 14:09:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 338.04 Mbit/s

95th percentile per-packet one-way delay: 74.519 ms

Loss rate: 0.00%

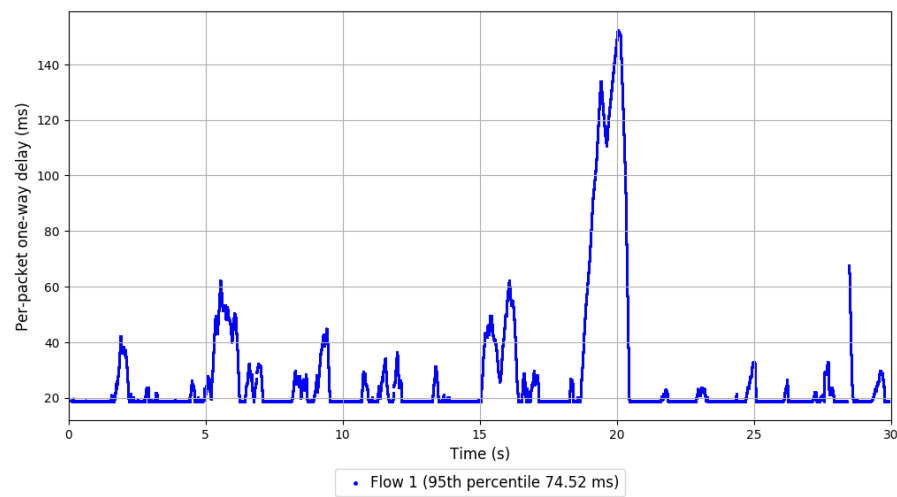
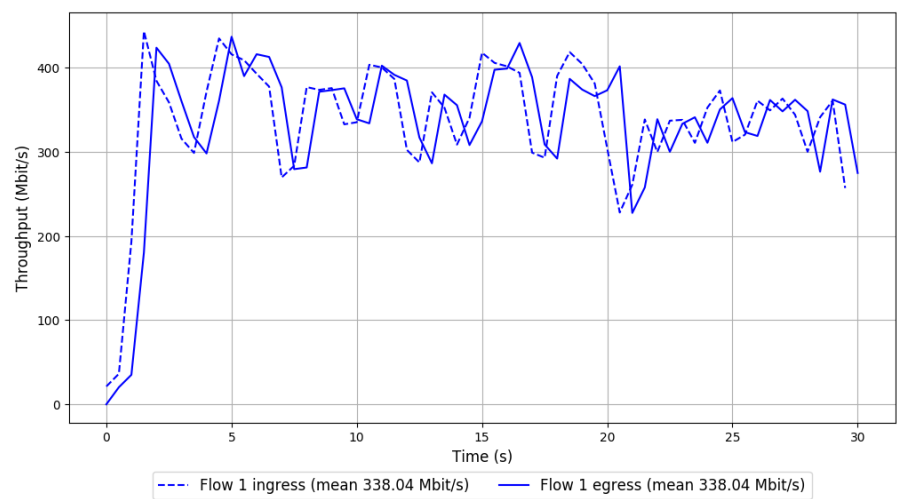
-- Flow 1:

Average throughput: 338.04 Mbit/s

95th percentile per-packet one-way delay: 74.519 ms

Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-18 09:39:59

End at: 2018-06-18 09:40:29

Local clock offset: 3.421 ms

Remote clock offset: 6.163 ms

# Below is generated by plot.py at 2018-06-18 14:09:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 365.18 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.00%

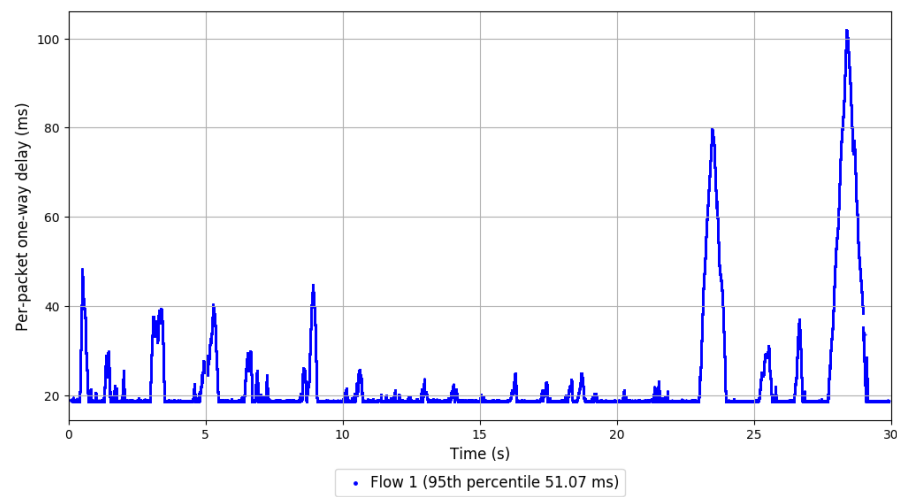
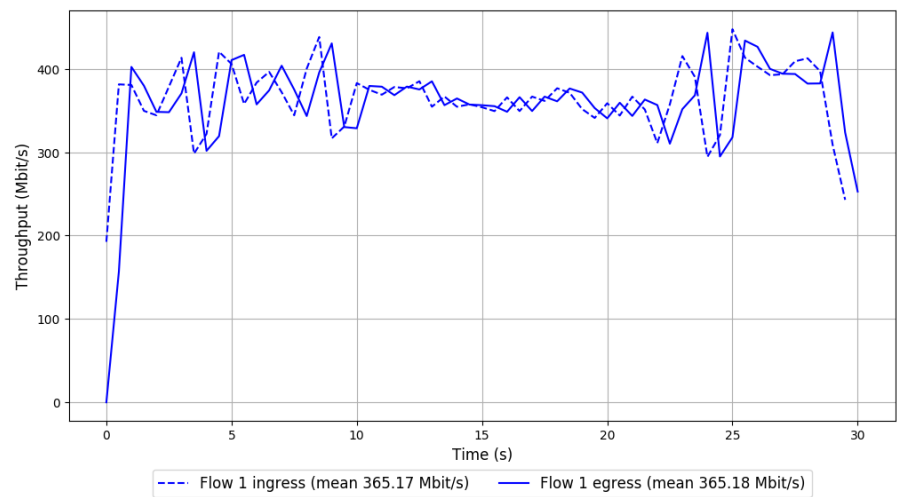
-- Flow 1:

Average throughput: 365.18 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-18 10:04:10

End at: 2018-06-18 10:04:40

Local clock offset: 3.482 ms

Remote clock offset: 1.209 ms

# Below is generated by plot.py at 2018-06-18 14:09:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 374.06 Mbit/s

95th percentile per-packet one-way delay: 152.506 ms

Loss rate: 1.73%

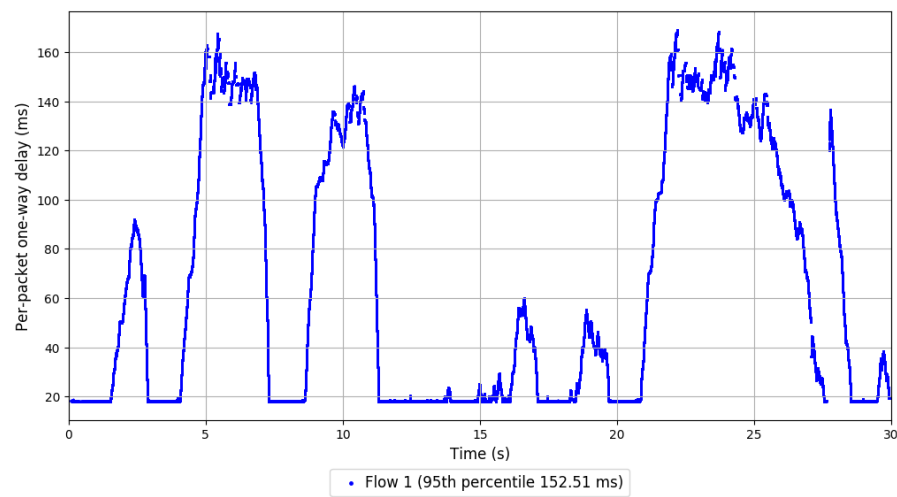
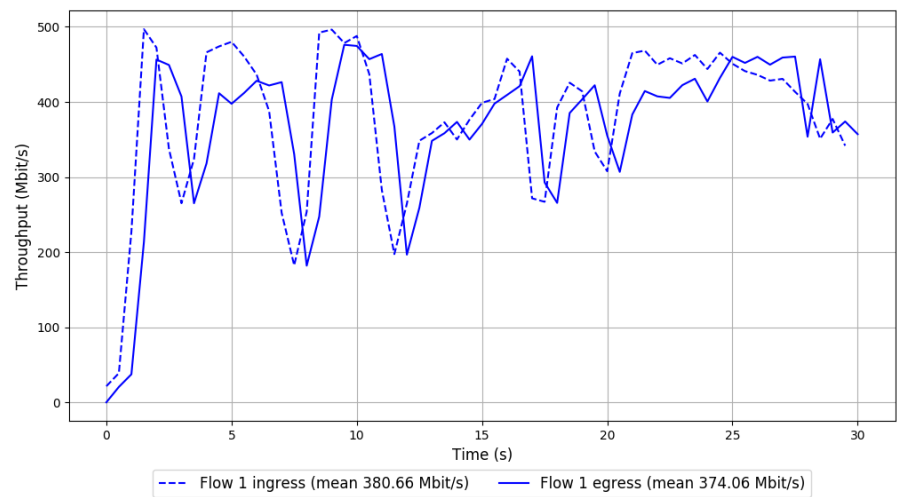
-- Flow 1:

Average throughput: 374.06 Mbit/s

95th percentile per-packet one-way delay: 152.506 ms

Loss rate: 1.73%

Run 4: Report of PCC-Expr — Data Link

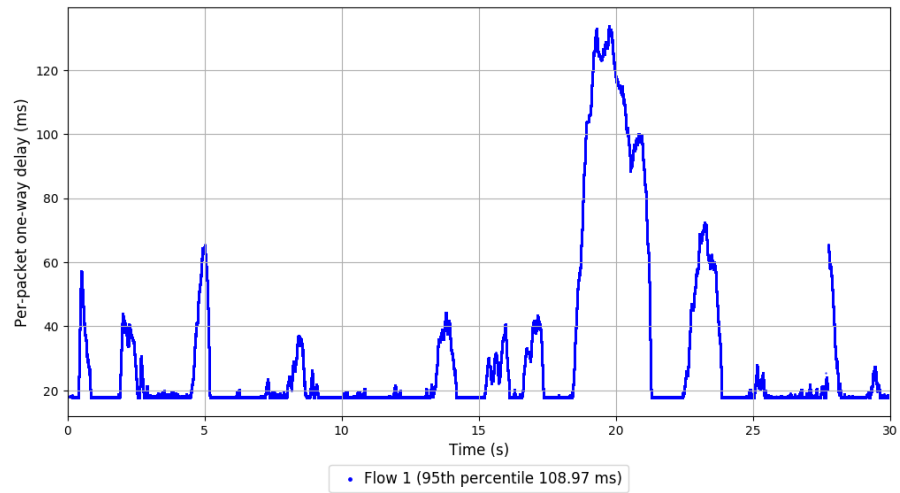
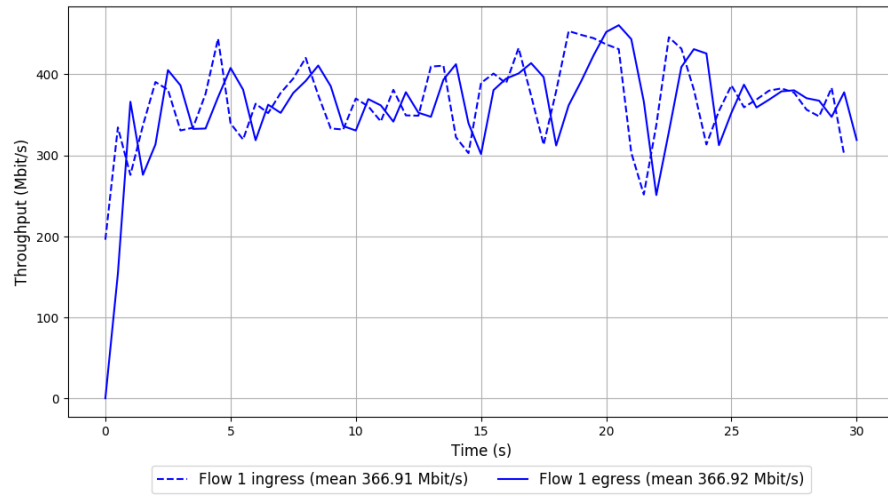


Run 5: Statistics of PCC-Expr

Start at: 2018-06-18 10:28:20  
End at: 2018-06-18 10:28:50  
Local clock offset: 4.223 ms  
Remote clock offset: -1.953 ms

# Below is generated by plot.py at 2018-06-18 14:10:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 366.92 Mbit/s  
95th percentile per-packet one-way delay: 108.972 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 366.92 Mbit/s  
95th percentile per-packet one-way delay: 108.972 ms  
Loss rate: 0.00%

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



Run 6: Statistics of PCC-Expr

Start at: 2018-06-18 10:52:23

End at: 2018-06-18 10:52:53

Local clock offset: 3.589 ms

Remote clock offset: -1.069 ms

# Below is generated by plot.py at 2018-06-18 14:10:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 364.63 Mbit/s

95th percentile per-packet one-way delay: 51.280 ms

Loss rate: 0.22%

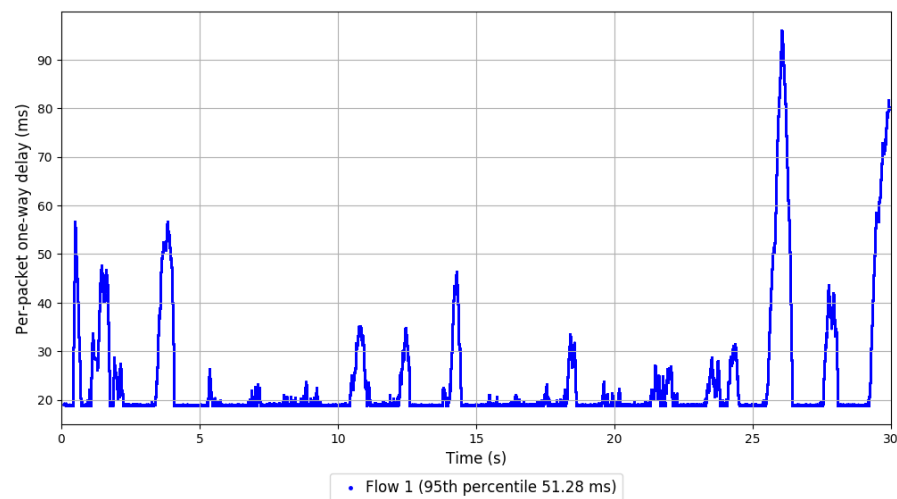
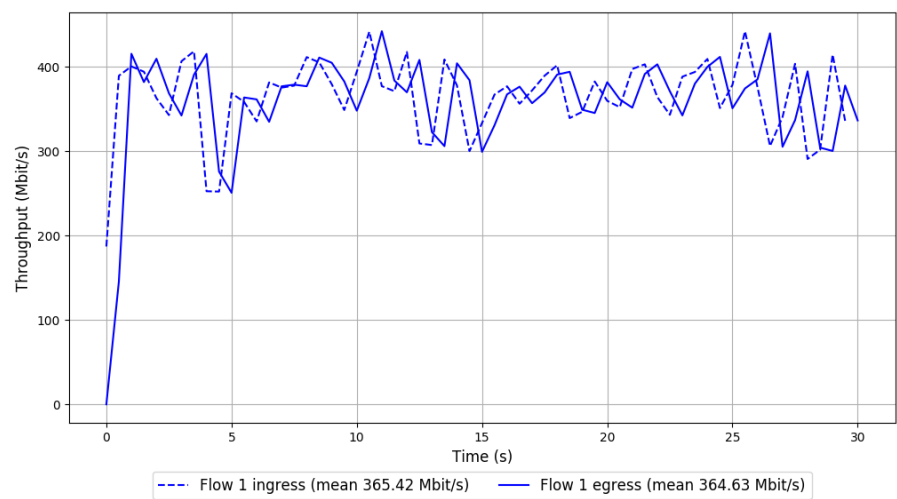
-- Flow 1:

Average throughput: 364.63 Mbit/s

95th percentile per-packet one-way delay: 51.280 ms

Loss rate: 0.22%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-18 11:16:33

End at: 2018-06-18 11:17:03

Local clock offset: 3.451 ms

Remote clock offset: 3.108 ms

# Below is generated by plot.py at 2018-06-18 14:14:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 343.39 Mbit/s

95th percentile per-packet one-way delay: 94.226 ms

Loss rate: 0.00%

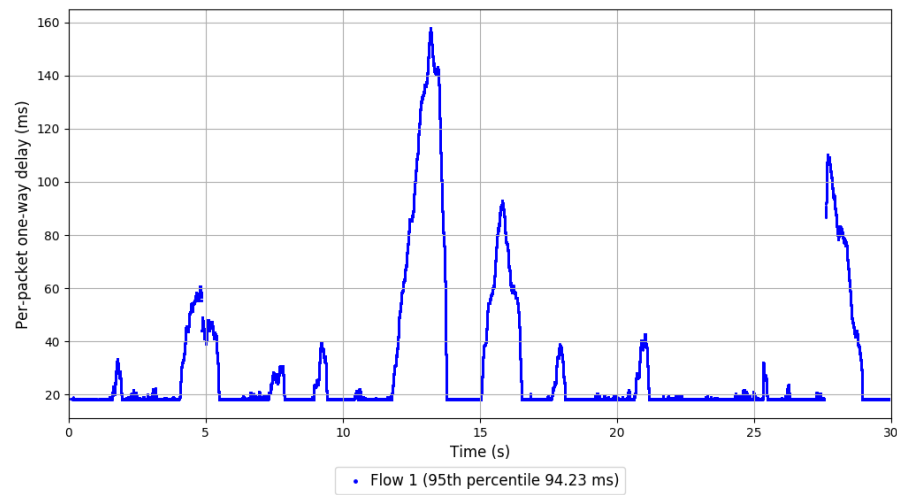
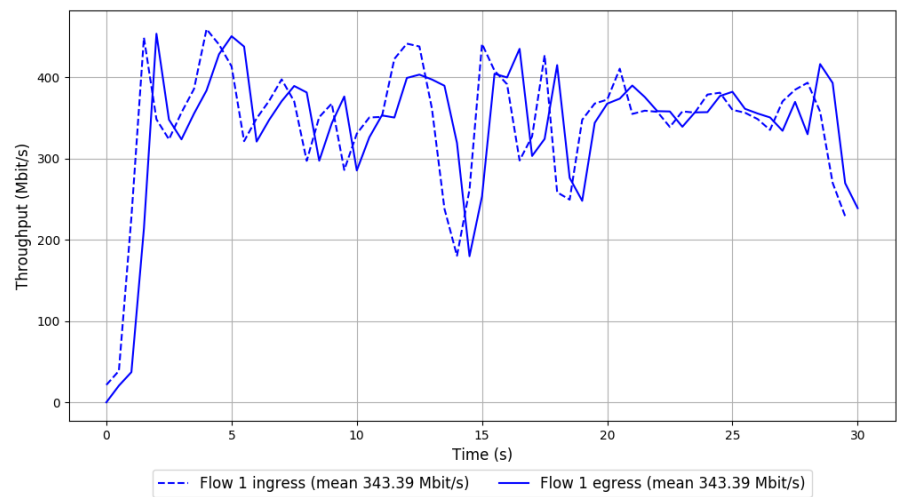
-- Flow 1:

Average throughput: 343.39 Mbit/s

95th percentile per-packet one-way delay: 94.226 ms

Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-18 11:40:29

End at: 2018-06-18 11:40:59

Local clock offset: 3.611 ms

Remote clock offset: 4.085 ms

# Below is generated by plot.py at 2018-06-18 14:14:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 357.06 Mbit/s

95th percentile per-packet one-way delay: 112.351 ms

Loss rate: 0.00%

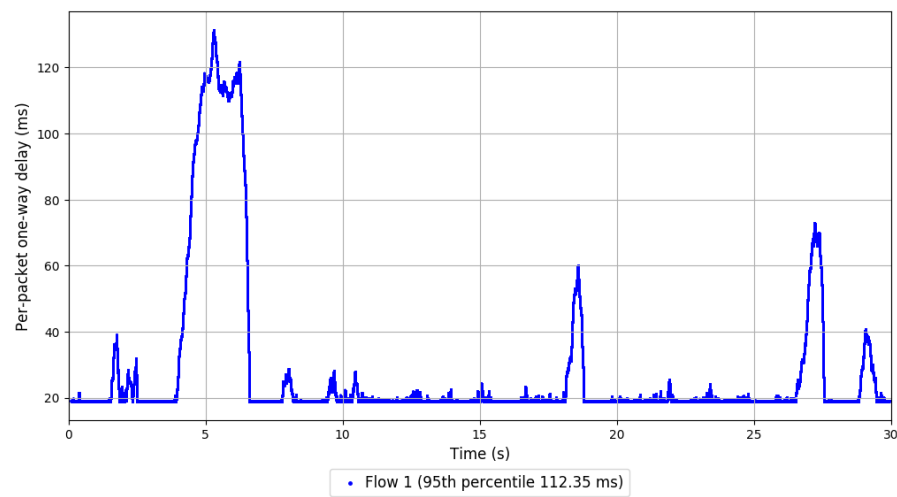
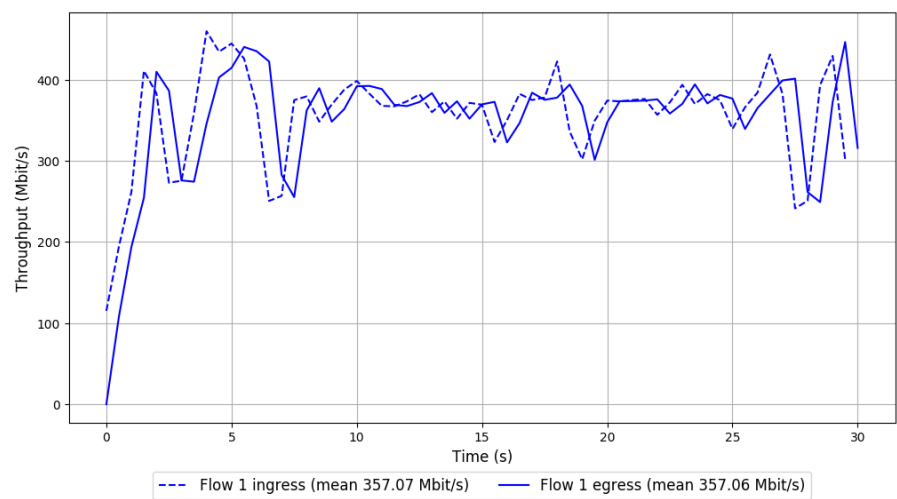
-- Flow 1:

Average throughput: 357.06 Mbit/s

95th percentile per-packet one-way delay: 112.351 ms

Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-18 12:04:11

End at: 2018-06-18 12:04:41

Local clock offset: 3.645 ms

Remote clock offset: 3.436 ms

# Below is generated by plot.py at 2018-06-18 14:16:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 346.51 Mbit/s

95th percentile per-packet one-way delay: 113.325 ms

Loss rate: 0.03%

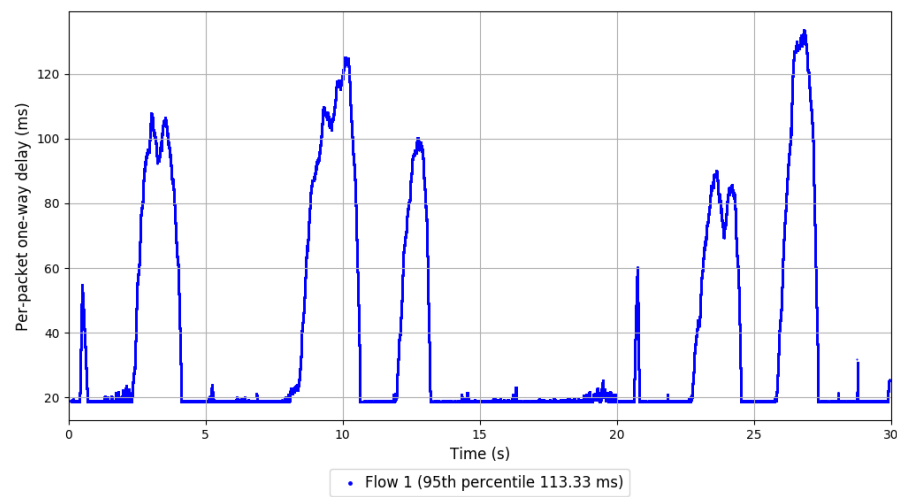
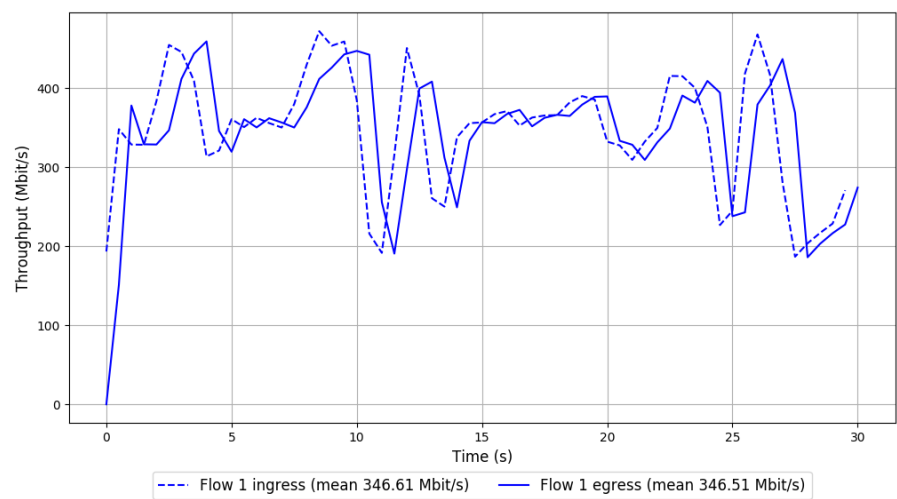
-- Flow 1:

Average throughput: 346.51 Mbit/s

95th percentile per-packet one-way delay: 113.325 ms

Loss rate: 0.03%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-18 12:28:10

End at: 2018-06-18 12:28:40

Local clock offset: 3.765 ms

Remote clock offset: 2.454 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 357.72 Mbit/s

95th percentile per-packet one-way delay: 131.262 ms

Loss rate: 0.20%

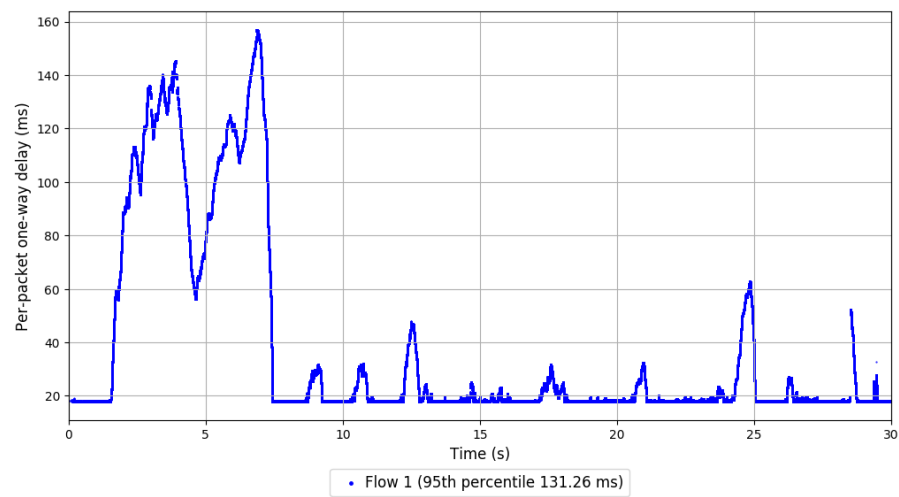
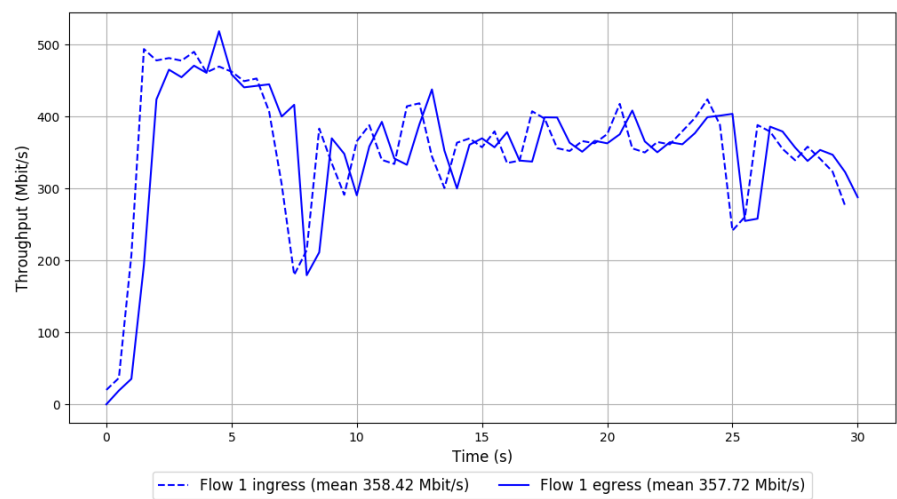
-- Flow 1:

Average throughput: 357.72 Mbit/s

95th percentile per-packet one-way delay: 131.262 ms

Loss rate: 0.20%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-18 08:58:21

End at: 2018-06-18 08:58:51

Local clock offset: 2.738 ms

Remote clock offset: 2.727 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 18.786 ms

Loss rate: 0.00%

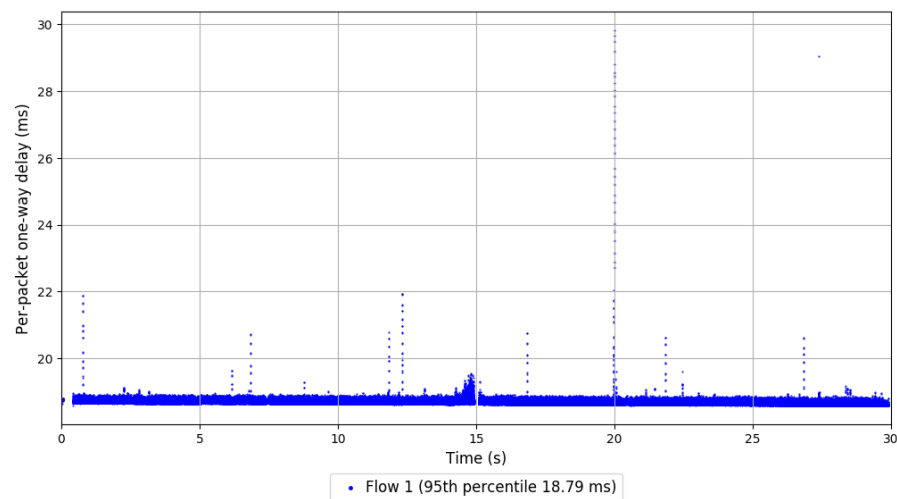
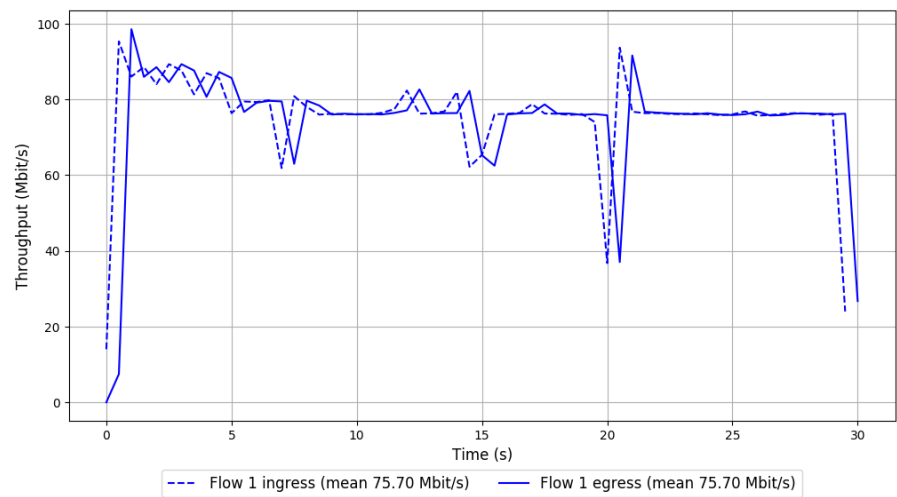
-- Flow 1:

Average throughput: 75.70 Mbit/s

95th percentile per-packet one-way delay: 18.786 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-18 09:22:19

End at: 2018-06-18 09:22:49

Local clock offset: 3.312 ms

Remote clock offset: 5.049 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.28 Mbit/s

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

Loss rate: 0.00%

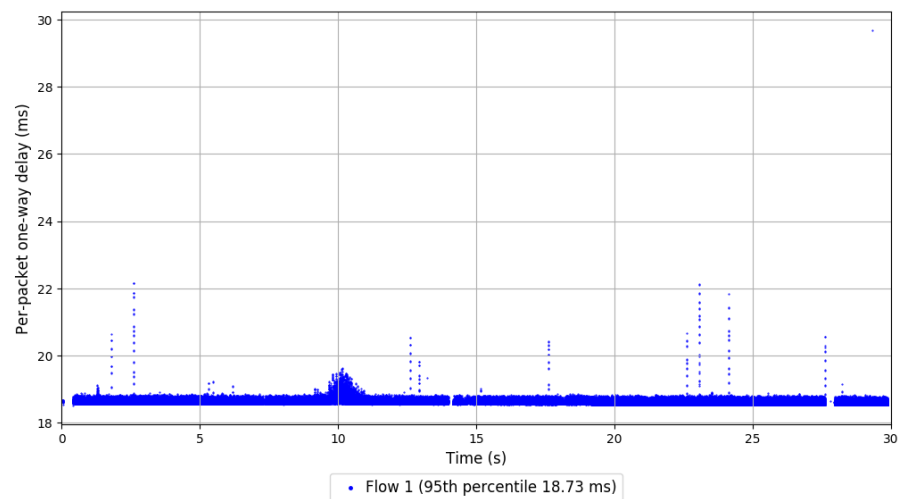
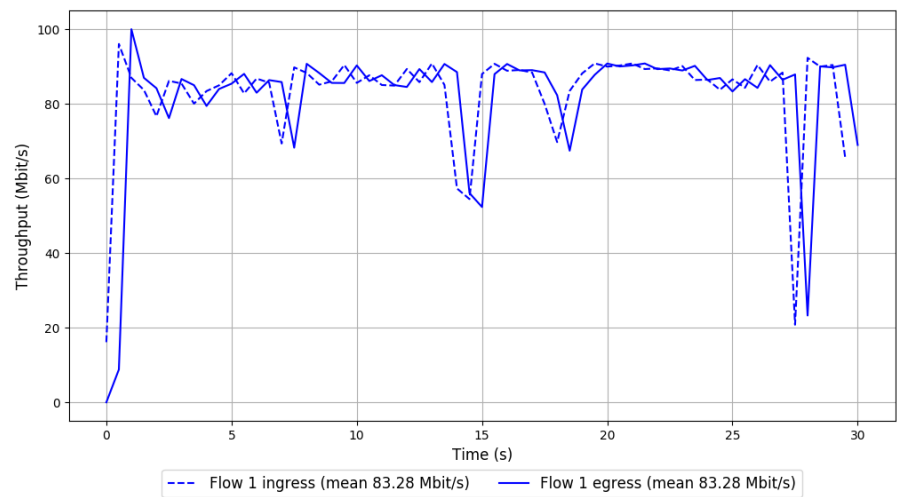
-- Flow 1:

Average throughput: 83.28 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-18 09:46:29

End at: 2018-06-18 09:46:59

Local clock offset: 3.503 ms

Remote clock offset: 6.594 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.71 Mbit/s

95th percentile per-packet one-way delay: 18.931 ms

Loss rate: 0.00%

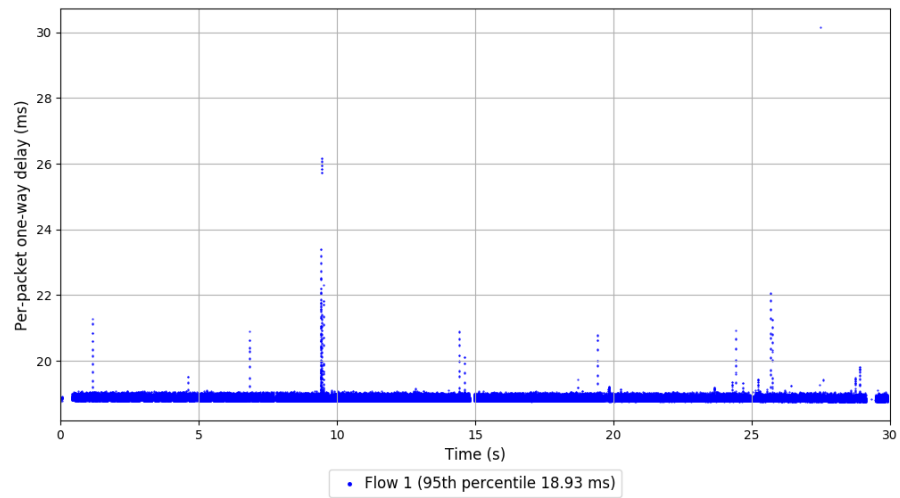
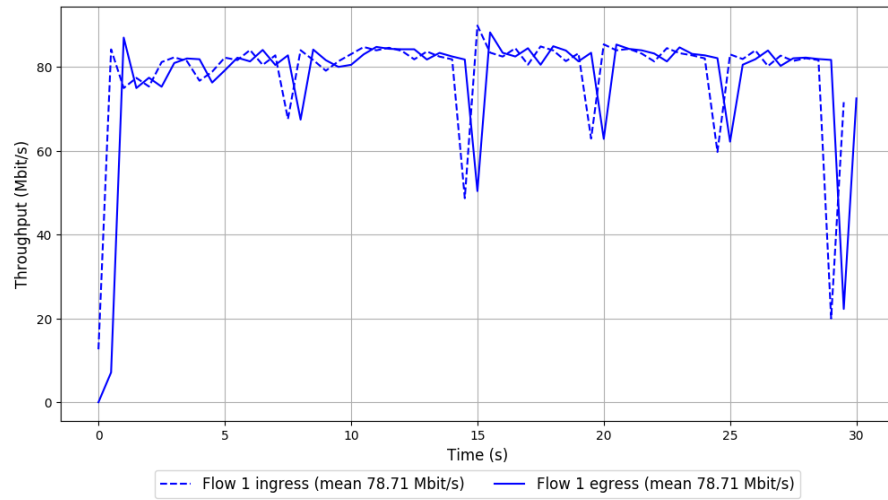
-- Flow 1:

Average throughput: 78.71 Mbit/s

95th percentile per-packet one-way delay: 18.931 ms

Loss rate: 0.00%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-18 10:10:40

End at: 2018-06-18 10:11:10

Local clock offset: 3.858 ms

Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.63 Mbit/s

95th percentile per-packet one-way delay: 19.079 ms

Loss rate: 0.00%

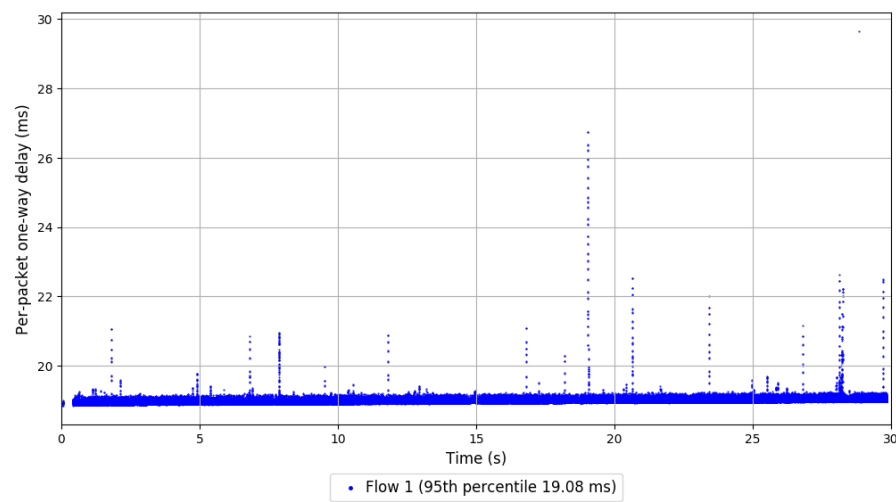
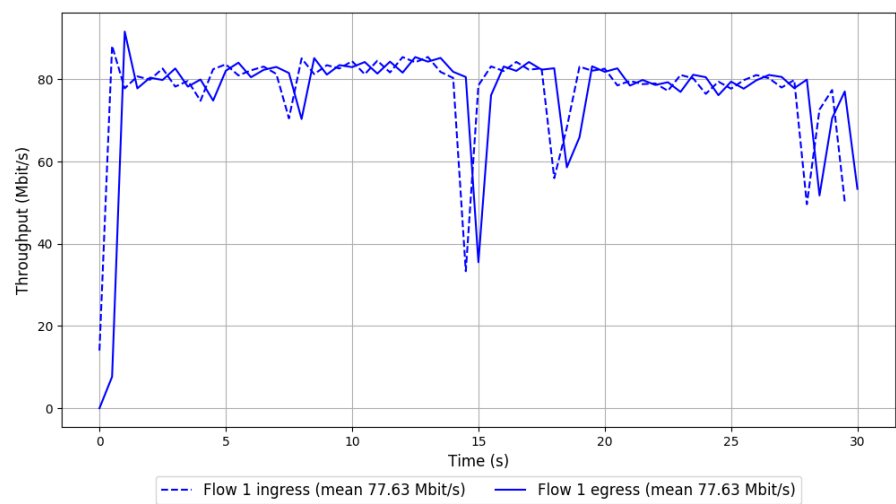
-- Flow 1:

Average throughput: 77.63 Mbit/s

95th percentile per-packet one-way delay: 19.079 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-18 10:34:51

End at: 2018-06-18 10:35:21

Local clock offset: 4.155 ms

Remote clock offset: -1.229 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.47 Mbit/s

95th percentile per-packet one-way delay: 18.876 ms

Loss rate: 0.00%

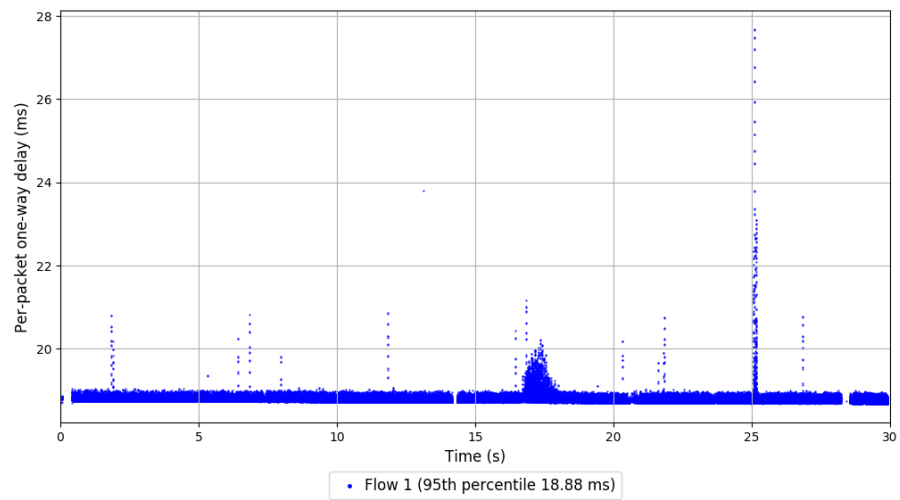
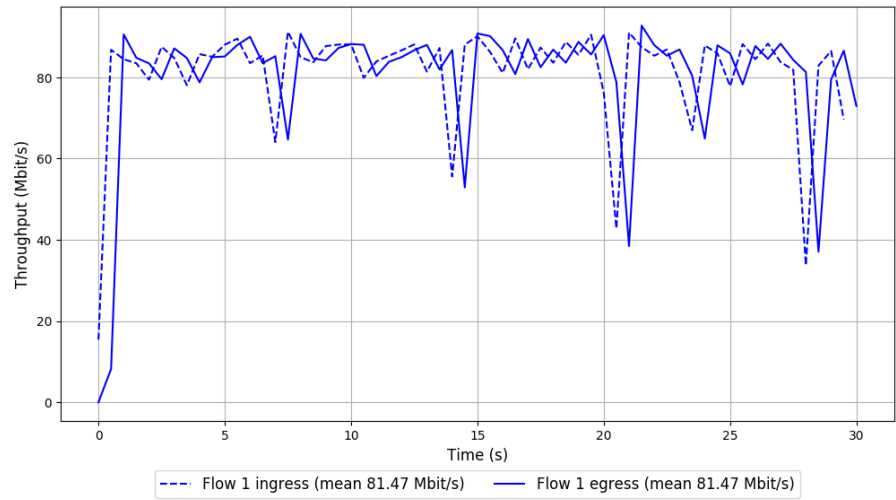
-- Flow 1:

Average throughput: 81.47 Mbit/s

95th percentile per-packet one-way delay: 18.876 ms

Loss rate: 0.00%

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



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-18 10:58:55

End at: 2018-06-18 10:59:25

Local clock offset: 3.499 ms

Remote clock offset: -1.291 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 18.705 ms

Loss rate: 0.00%

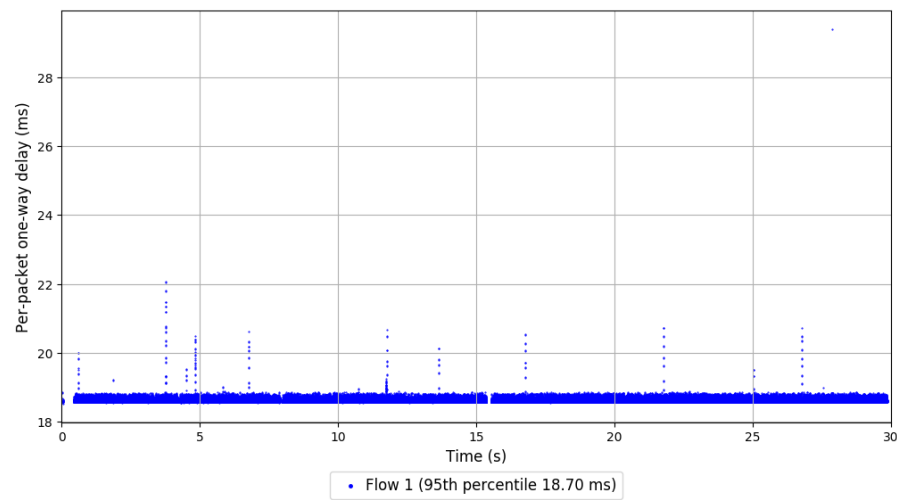
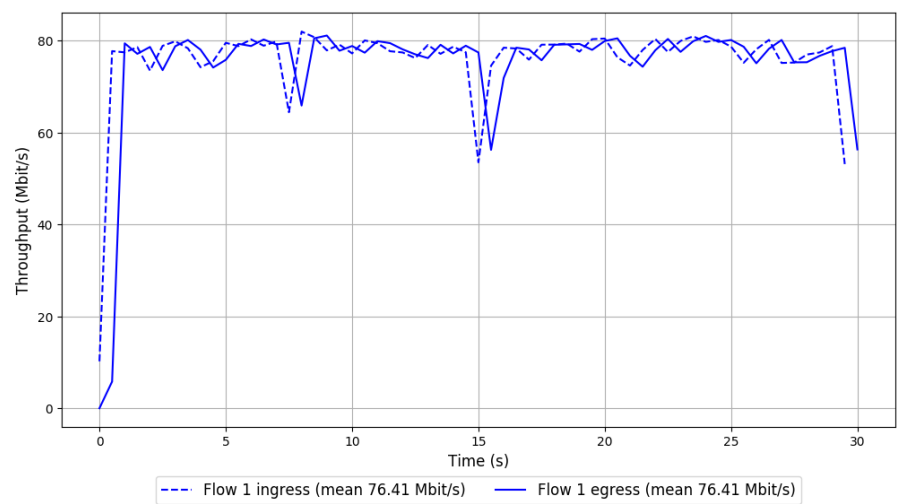
-- Flow 1:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 18.705 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-18 11:23:01

End at: 2018-06-18 11:23:31

Local clock offset: 3.527 ms

Remote clock offset: 3.923 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.76 Mbit/s

95th percentile per-packet one-way delay: 17.256 ms

Loss rate: 0.00%

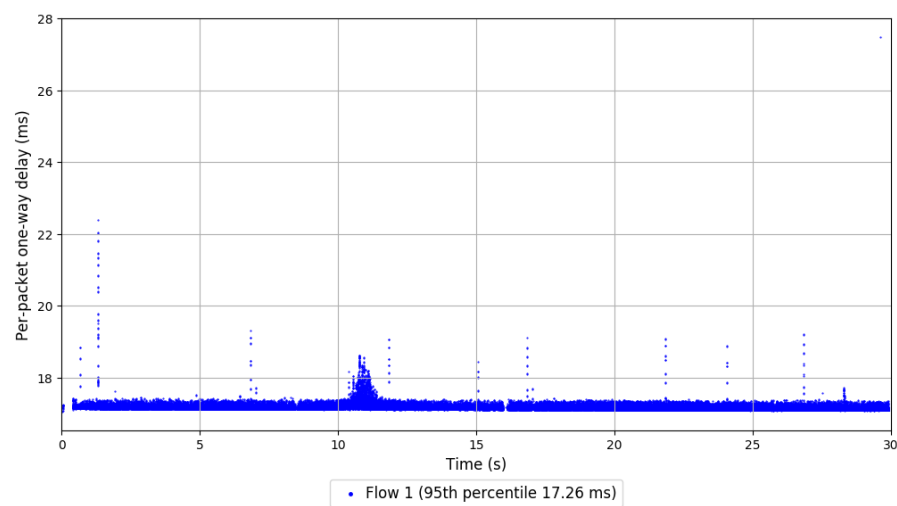
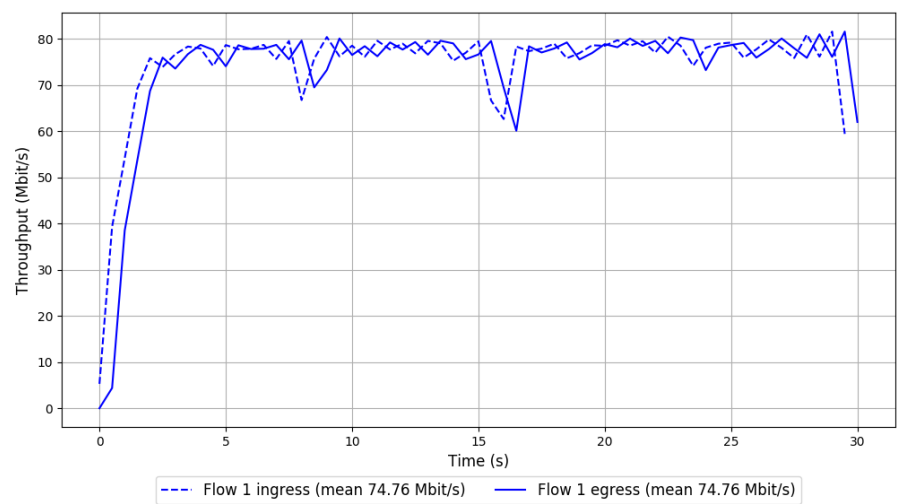
-- Flow 1:

Average throughput: 74.76 Mbit/s

95th percentile per-packet one-way delay: 17.256 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-18 11:46:53

End at: 2018-06-18 11:47:23

Local clock offset: 3.581 ms

Remote clock offset: 3.616 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.61 Mbit/s

95th percentile per-packet one-way delay: 18.803 ms

Loss rate: 0.00%

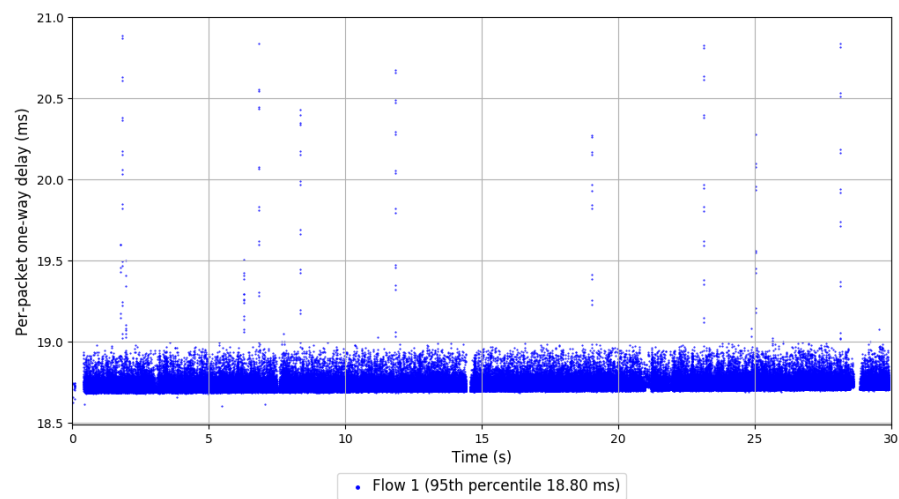
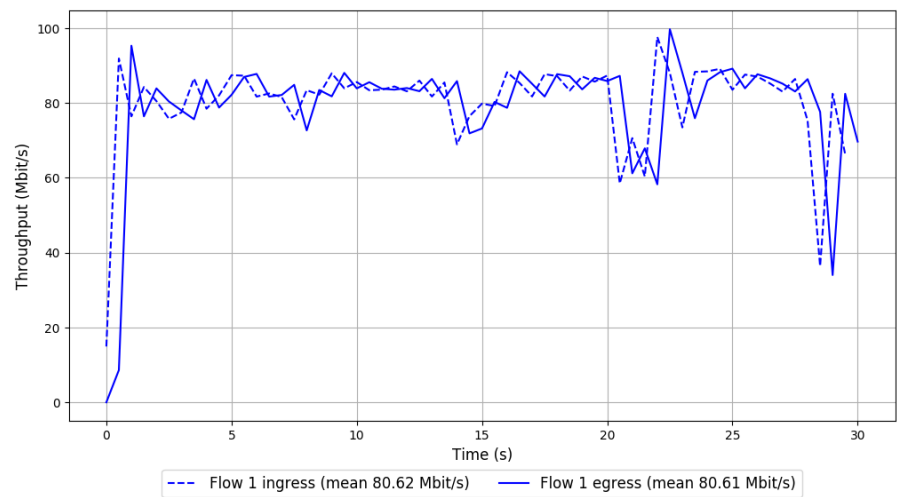
-- Flow 1:

Average throughput: 80.61 Mbit/s

95th percentile per-packet one-way delay: 18.803 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-18 12:10:34

End at: 2018-06-18 12:11:04

Local clock offset: 3.724 ms

Remote clock offset: 3.527 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.85 Mbit/s

95th percentile per-packet one-way delay: 18.049 ms

Loss rate: 0.00%

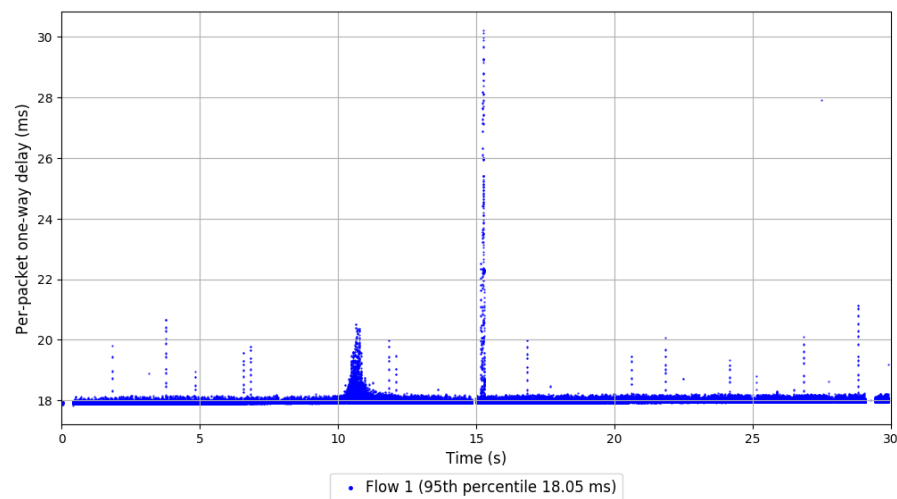
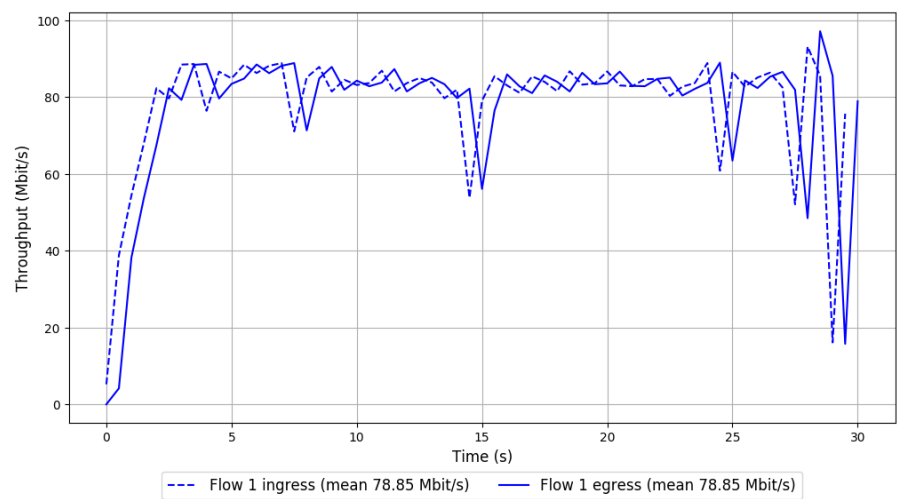
-- Flow 1:

Average throughput: 78.85 Mbit/s

95th percentile per-packet one-way delay: 18.049 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-18 12:34:35

End at: 2018-06-18 12:35:05

Local clock offset: 3.669 ms

Remote clock offset: 2.369 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 18.082 ms

Loss rate: 0.00%

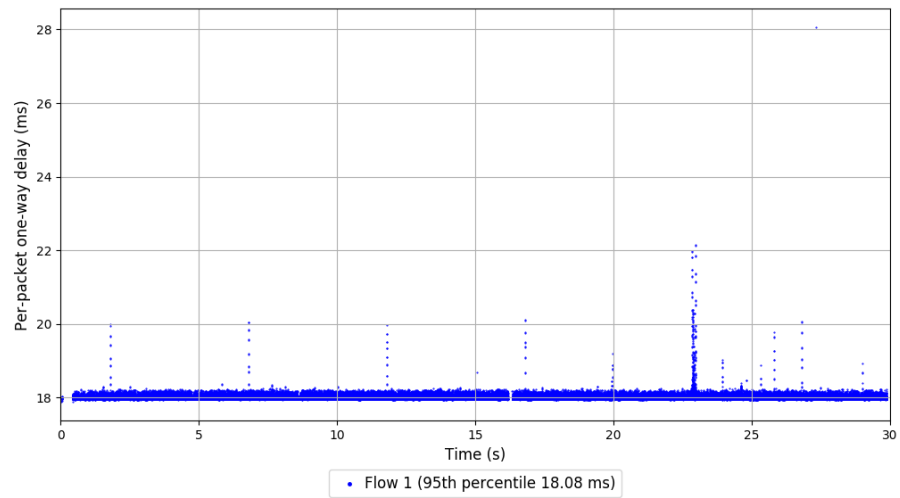
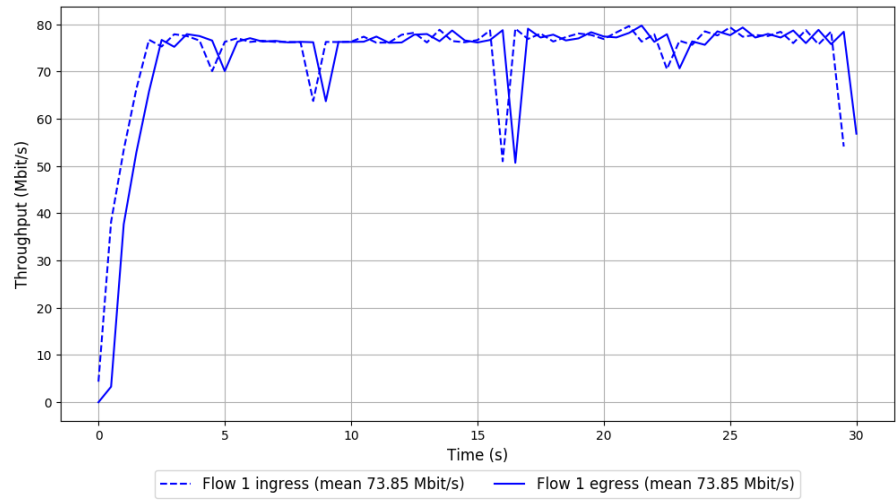
-- Flow 1:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 18.082 ms

Loss rate: 0.00%

# Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-06-18 09:04:22

End at: 2018-06-18 09:04:52

Local clock offset: 2.61 ms

Remote clock offset: 3.577 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.026 ms

Loss rate: 0.00%

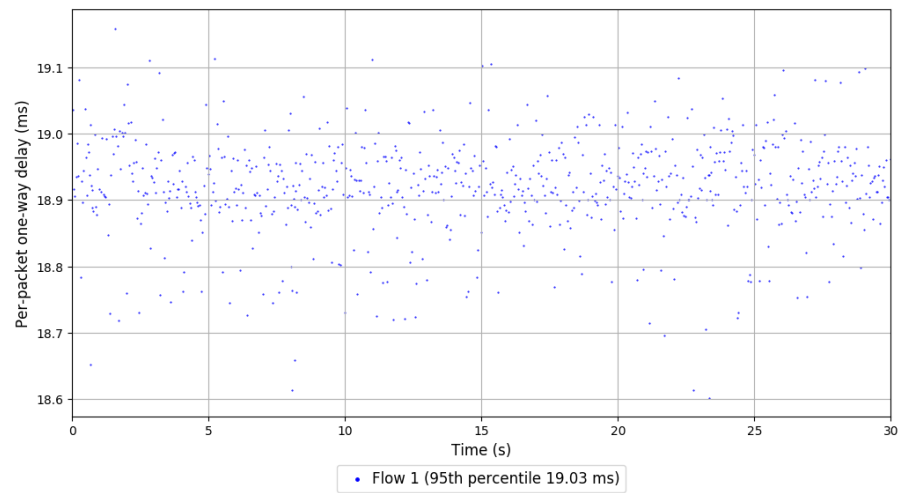
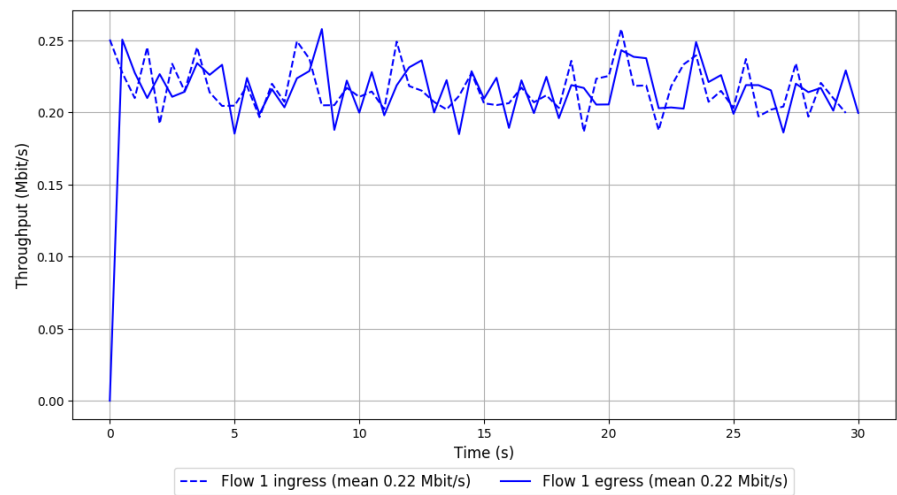
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.026 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-18 09:28:23

End at: 2018-06-18 09:28:53

Local clock offset: 3.192 ms

Remote clock offset: 5.455 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.382 ms

Loss rate: 0.00%

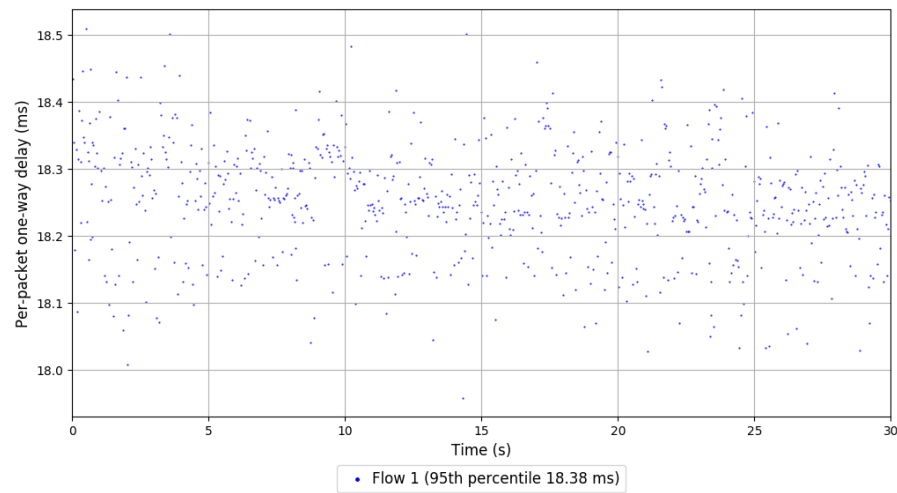
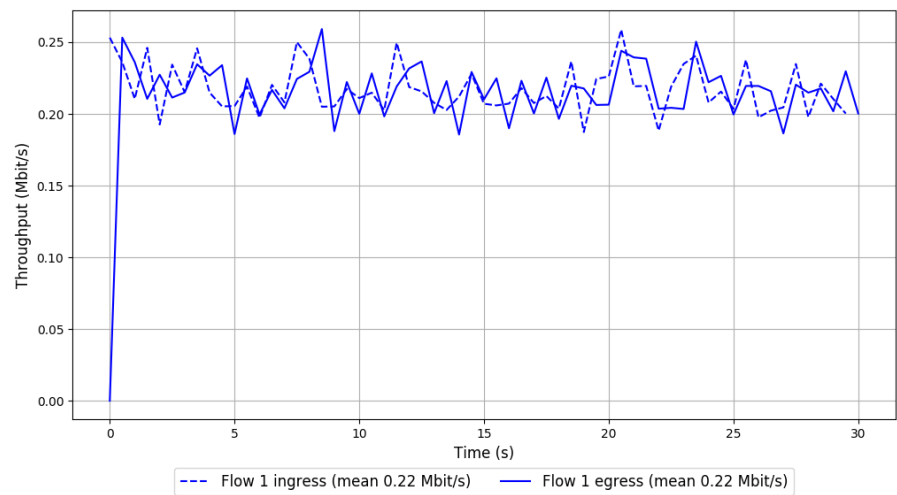
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.382 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-18 09:52:34

End at: 2018-06-18 09:53:04

Local clock offset: 3.528 ms

Remote clock offset: 6.964 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.951 ms

Loss rate: 0.00%

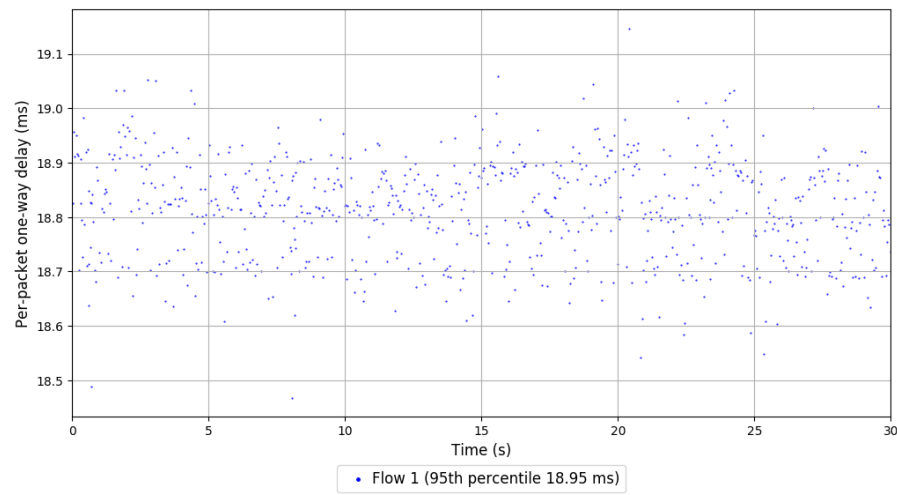
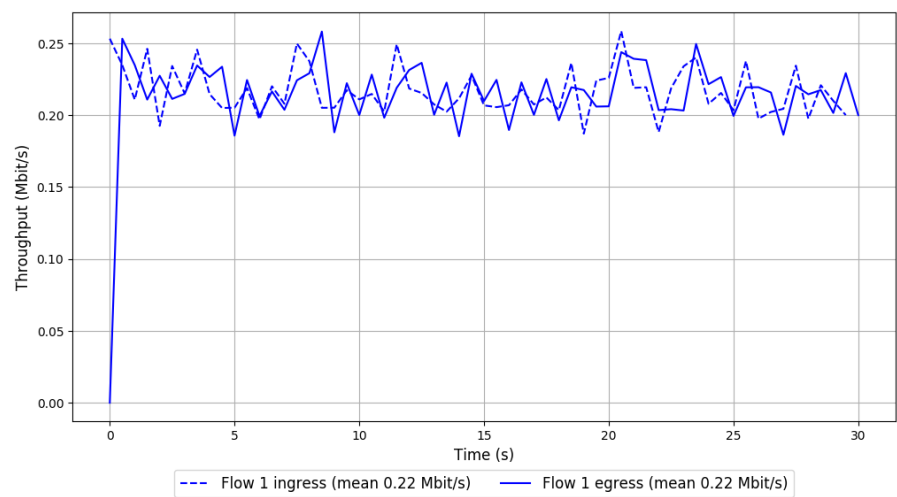
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.951 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

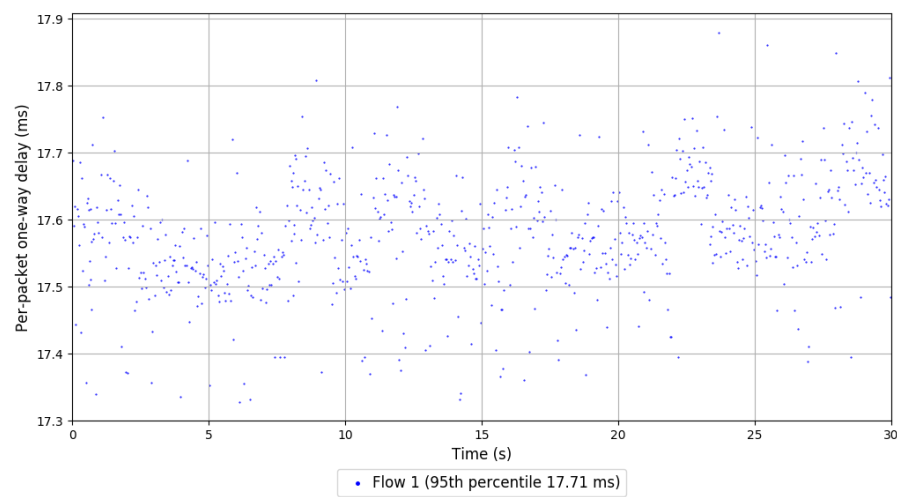
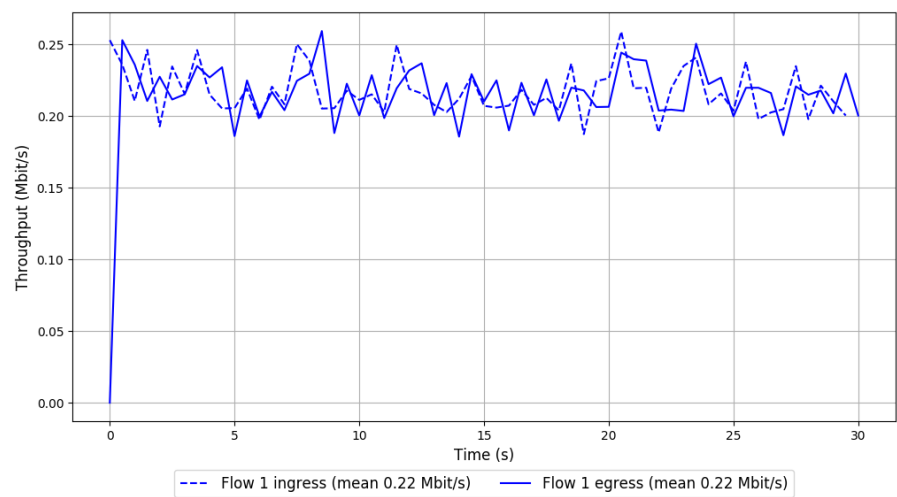


Run 4: Statistics of SCReAM

Start at: 2018-06-18 10:16:47  
End at: 2018-06-18 10:17:17  
Local clock offset: 3.959 ms  
Remote clock offset: -1.123 ms

# Below is generated by plot.py at 2018-06-18 14:16:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.714 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.714 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-18 10:40:49

End at: 2018-06-18 10:41:19

Local clock offset: 3.883 ms

Remote clock offset: -0.95 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.328 ms

Loss rate: 0.00%

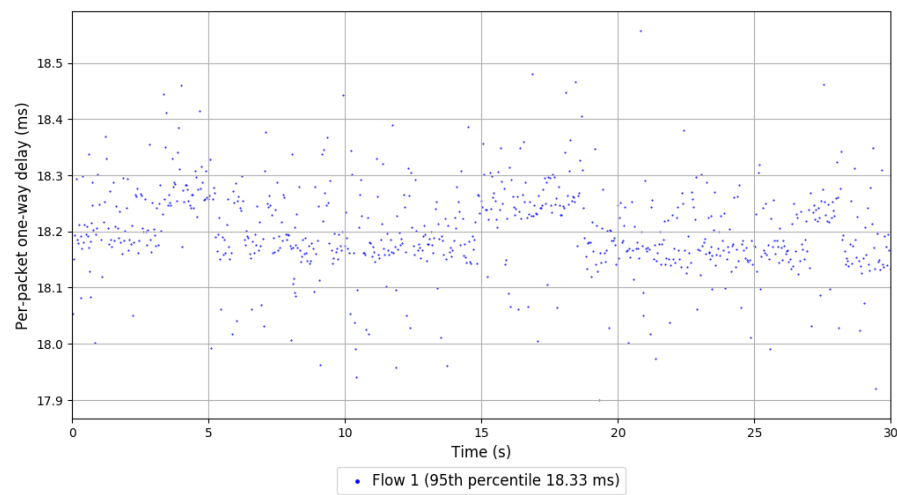
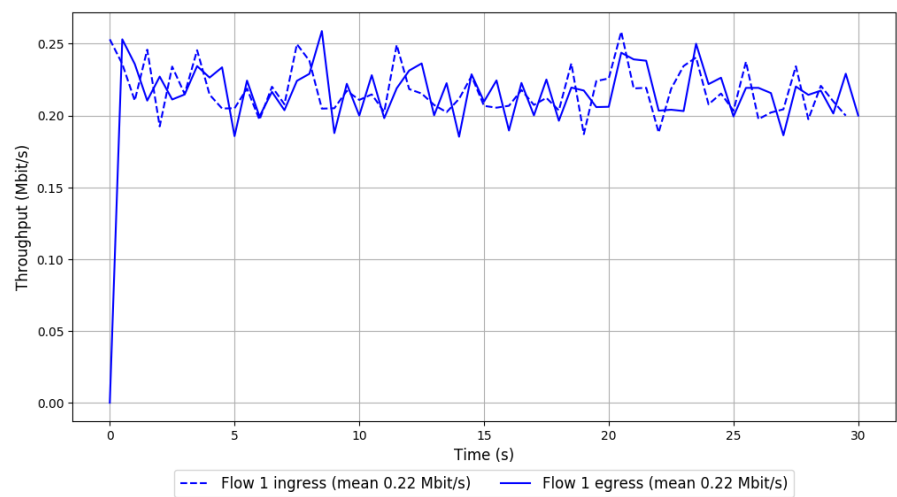
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.328 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-18 11:05:02

End at: 2018-06-18 11:05:32

Local clock offset: 3.367 ms

Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.255 ms

Loss rate: 0.00%

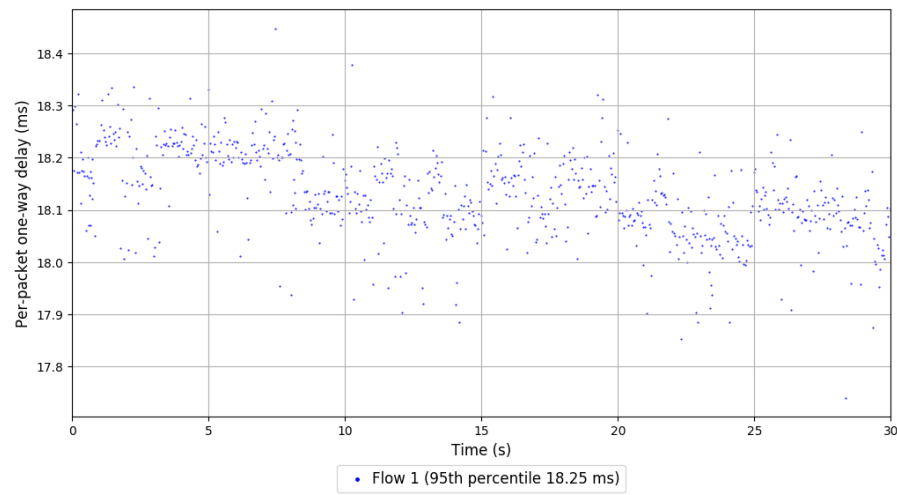
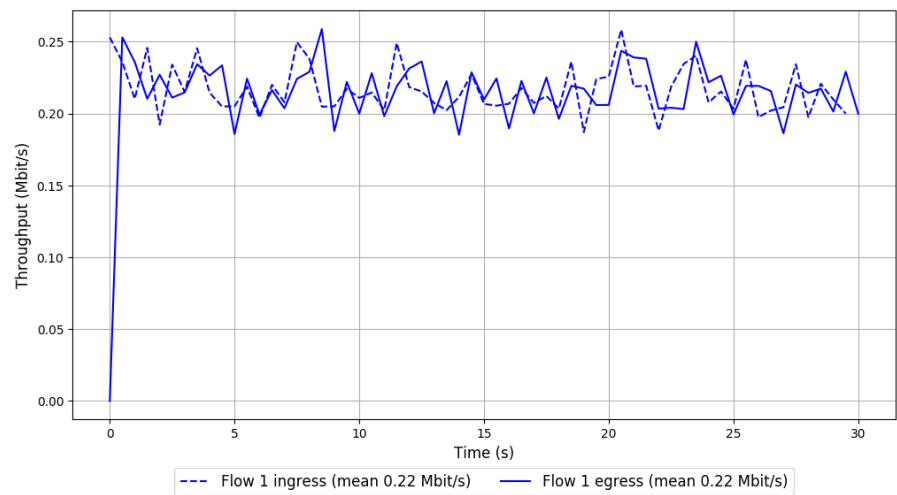
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.255 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-18 11:29:01

End at: 2018-06-18 11:29:31

Local clock offset: 3.494 ms

Remote clock offset: 4.386 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.512 ms

Loss rate: 0.00%

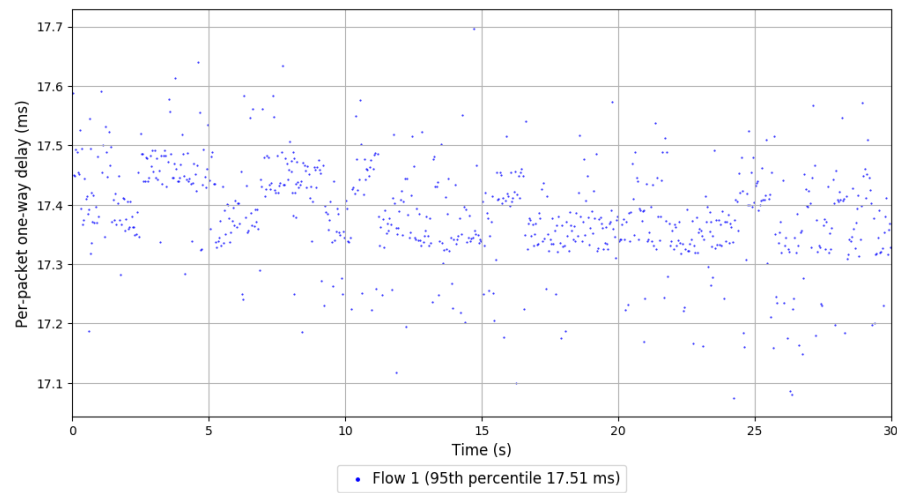
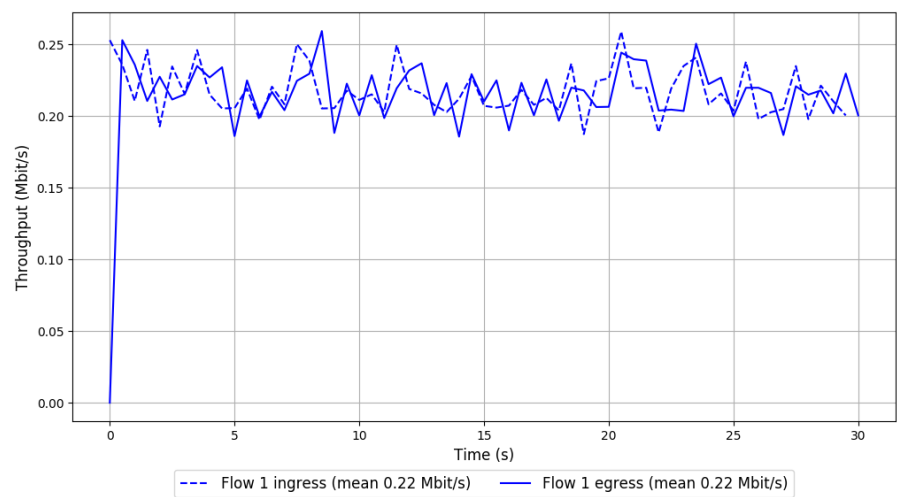
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 17.512 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-18 11:52:47

End at: 2018-06-18 11:53:17

Local clock offset: 3.707 ms

Remote clock offset: 3.488 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.379 ms

Loss rate: 0.00%

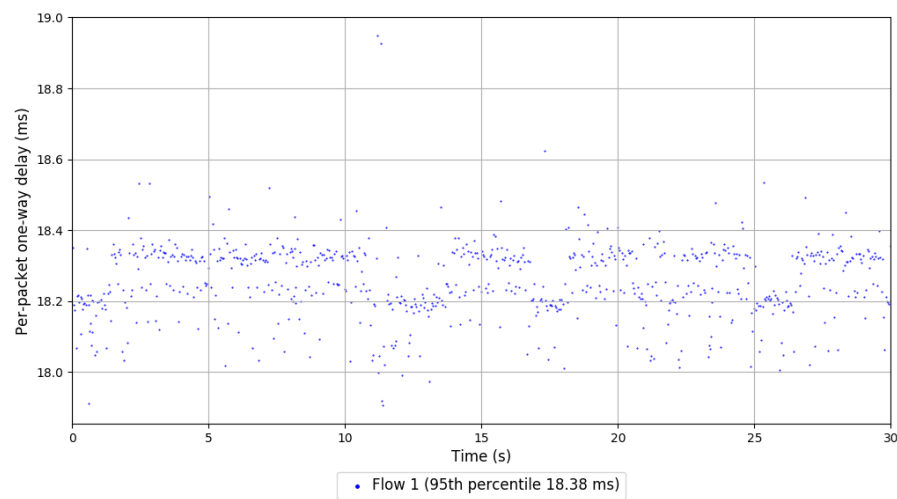
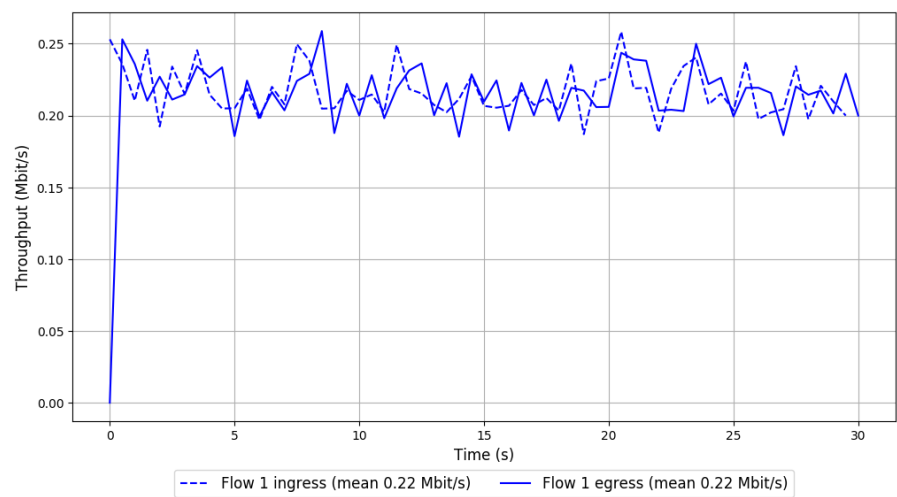
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.379 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-18 12:16:35

End at: 2018-06-18 12:17:05

Local clock offset: 3.666 ms

Remote clock offset: 2.913 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.273 ms

Loss rate: 0.00%

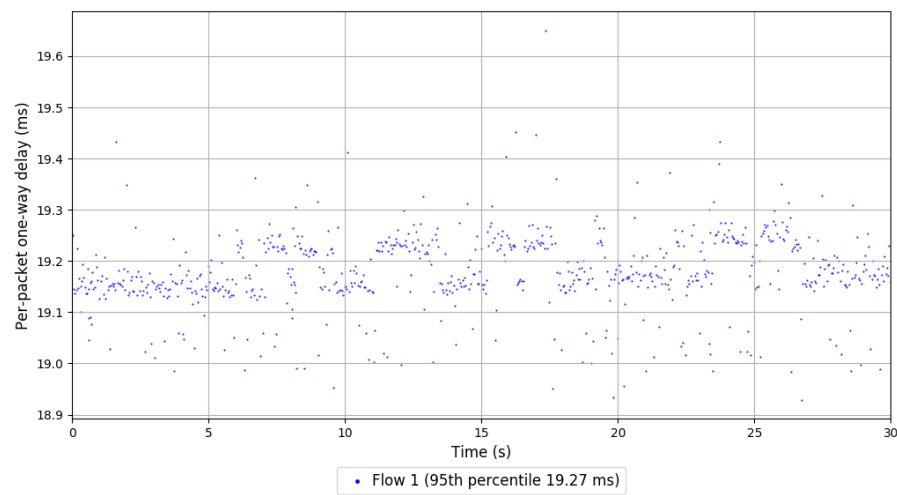
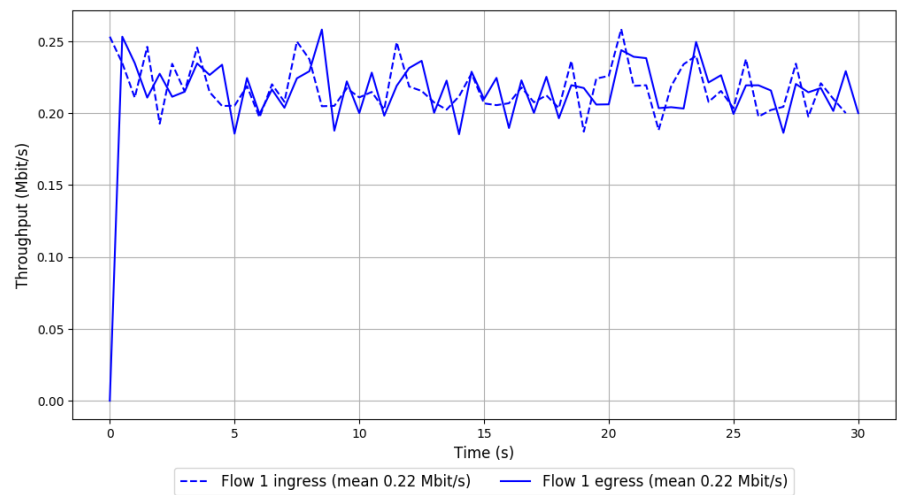
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.273 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-06-18 12:40:36

End at: 2018-06-18 12:41:06

Local clock offset: 3.697 ms

Remote clock offset: 2.301 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.325 ms

Loss rate: 0.00%

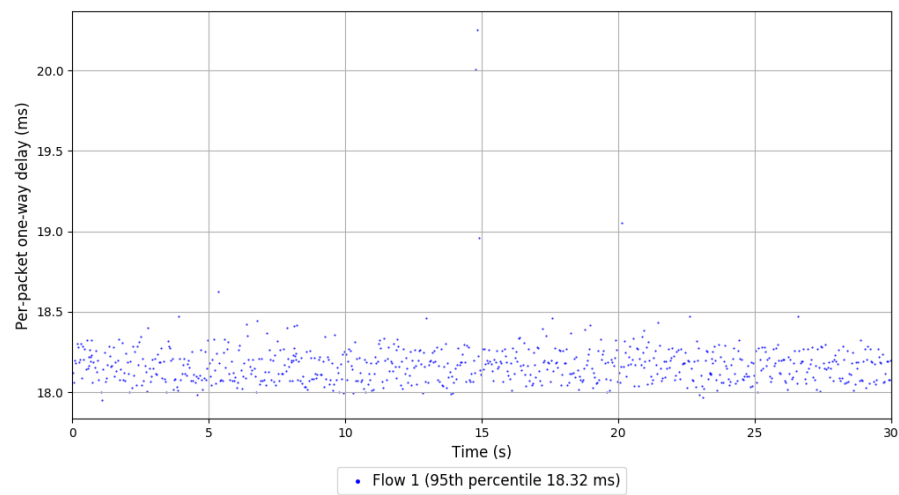
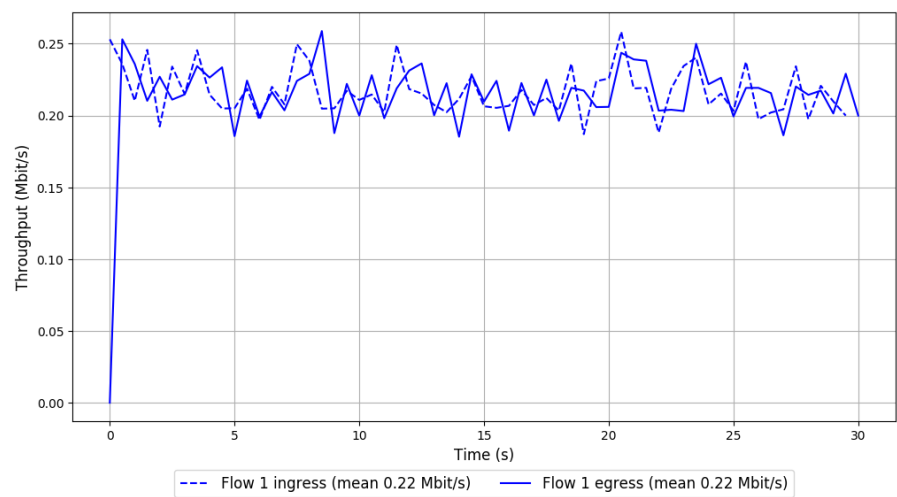
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.325 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-18 09:10:19

End at: 2018-06-18 09:10:49

Local clock offset: 2.977 ms

Remote clock offset: 4.142 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 20.361 ms

Loss rate: 0.00%

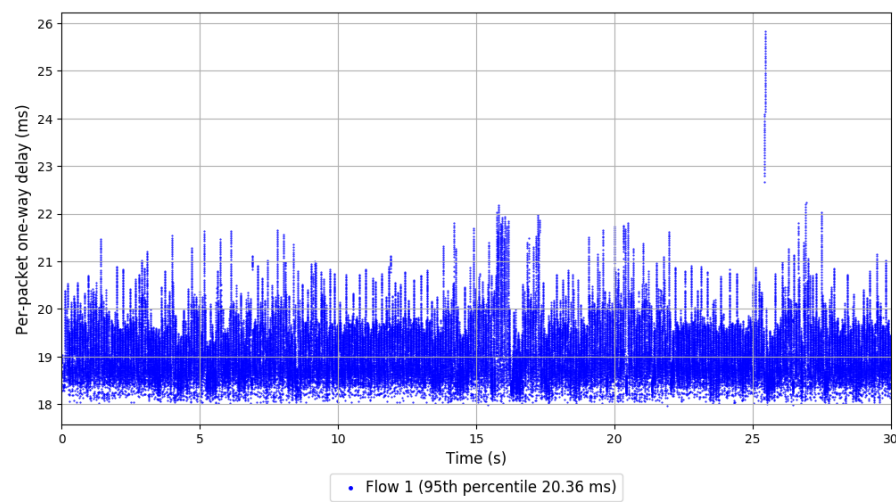
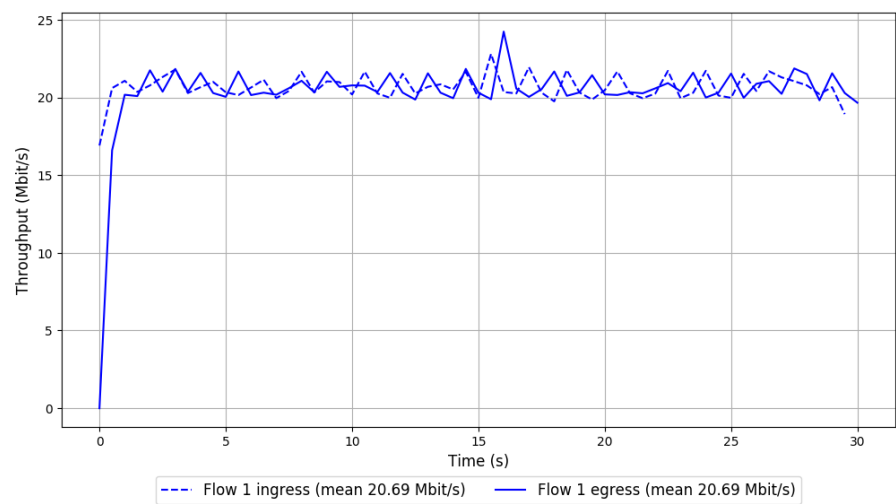
-- Flow 1:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 20.361 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-18 09:34:19

End at: 2018-06-18 09:34:49

Local clock offset: 3.237 ms

Remote clock offset: 5.819 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 20.441 ms

Loss rate: 0.00%

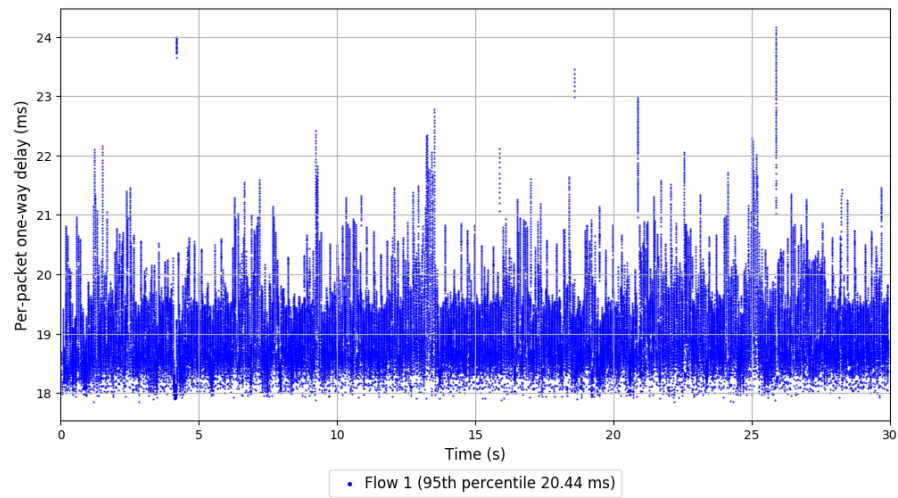
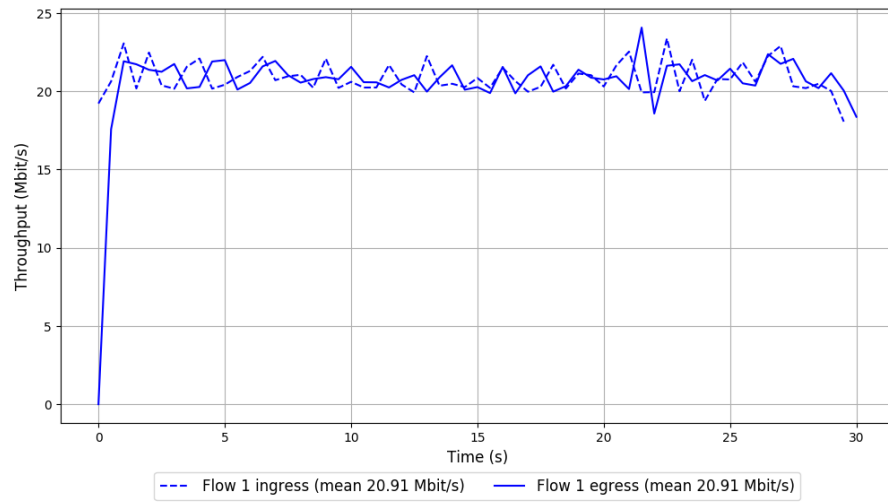
-- Flow 1:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 20.441 ms

Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-18 09:58:31

End at: 2018-06-18 09:59:01

Local clock offset: 3.521 ms

Remote clock offset: 3.533 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 21.494 ms

Loss rate: 0.05%

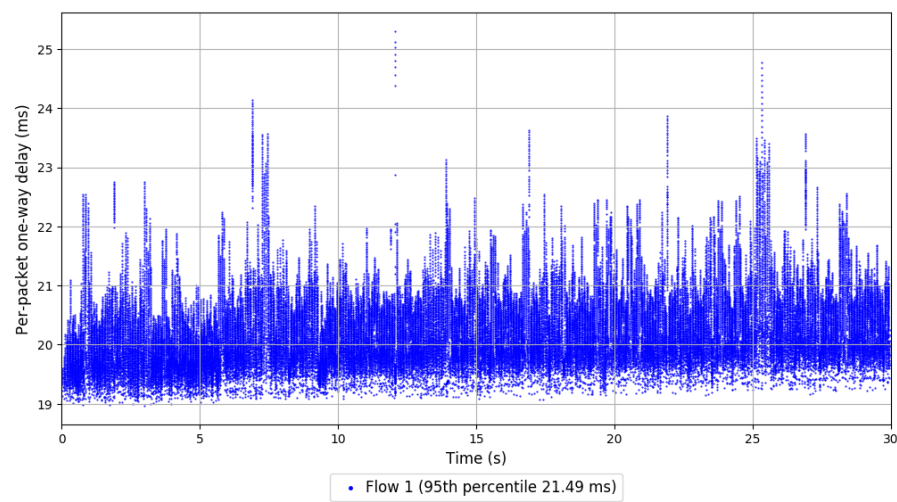
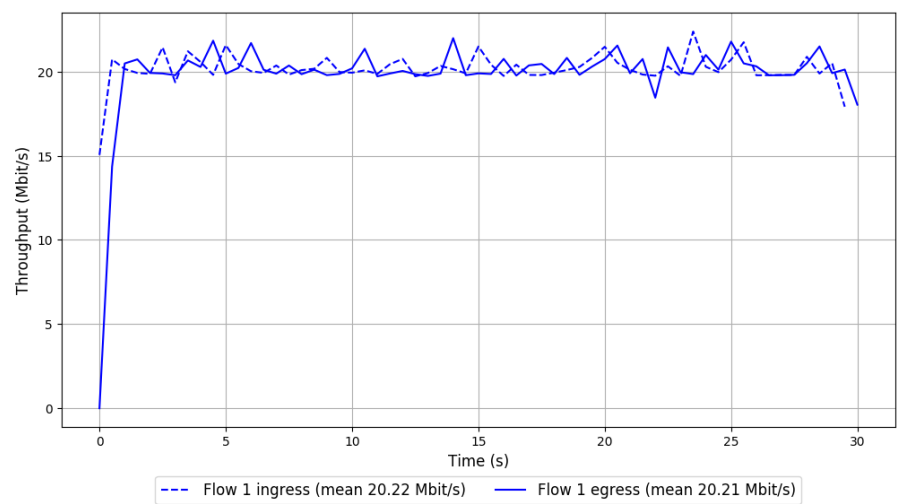
-- Flow 1:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 21.494 ms

Loss rate: 0.05%

Run 3: Report of Sprout — Data Link

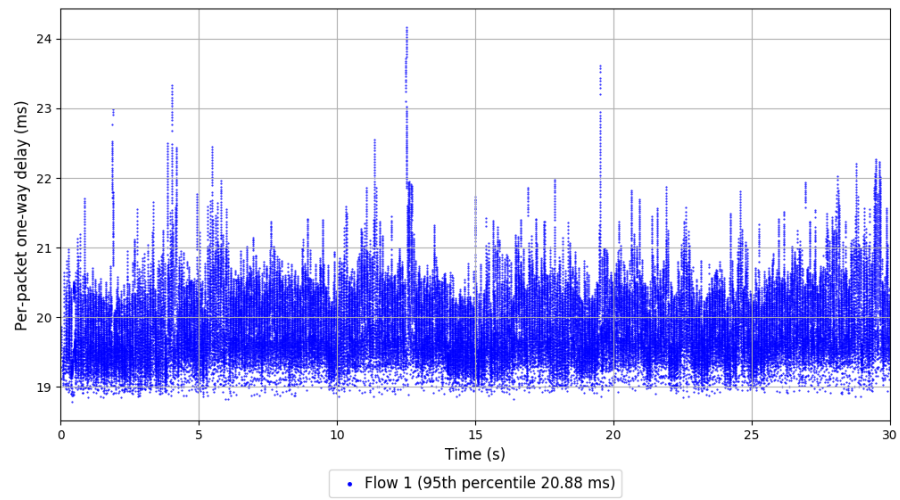
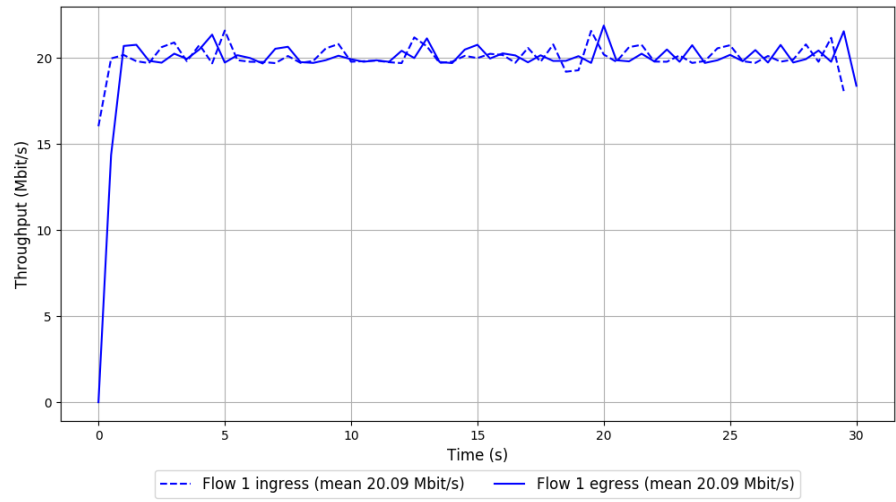


Run 4: Statistics of Sprout

Start at: 2018-06-18 10:22:40  
End at: 2018-06-18 10:23:10  
Local clock offset: 4.079 ms  
Remote clock offset: -1.756 ms

# Below is generated by plot.py at 2018-06-18 14:16:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.09 Mbit/s  
95th percentile per-packet one-way delay: 20.883 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.09 Mbit/s  
95th percentile per-packet one-way delay: 20.883 ms  
Loss rate: 0.00%

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

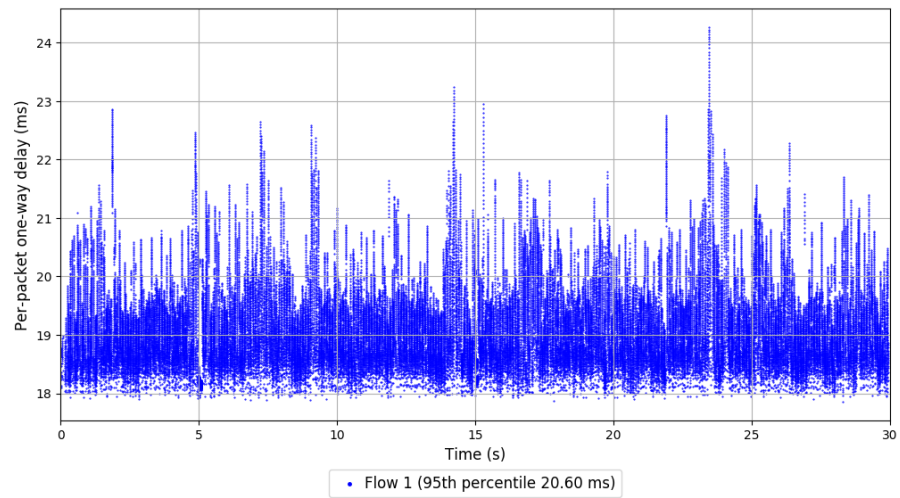
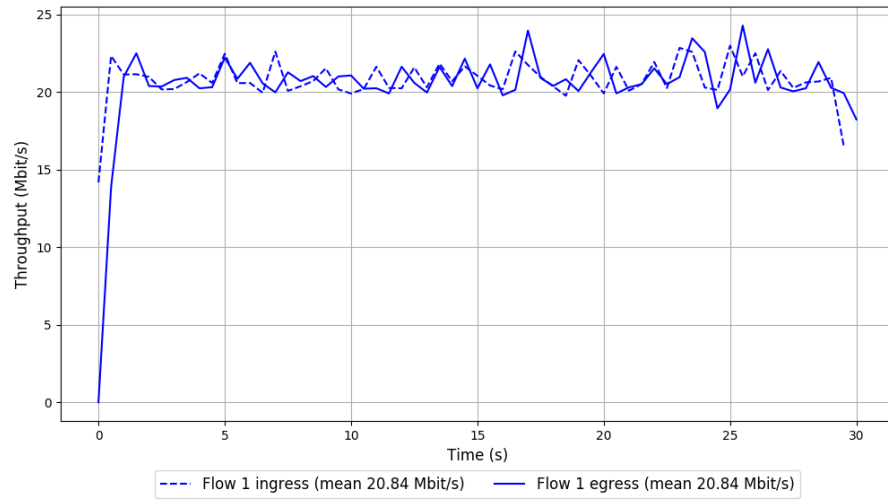


Run 5: Statistics of Sprout

Start at: 2018-06-18 10:46:44  
End at: 2018-06-18 10:47:14  
Local clock offset: 3.704 ms  
Remote clock offset: -0.966 ms

# Below is generated by plot.py at 2018-06-18 14:16:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 20.84 Mbit/s  
95th percentile per-packet one-way delay: 20.603 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 20.84 Mbit/s  
95th percentile per-packet one-way delay: 20.603 ms  
Loss rate: 0.00%

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



Run 6: Statistics of Sprout

Start at: 2018-06-18 11:10:57

End at: 2018-06-18 11:11:27

Local clock offset: 3.499 ms

Remote clock offset: 2.066 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.25 Mbit/s

95th percentile per-packet one-way delay: 20.726 ms

Loss rate: 0.00%

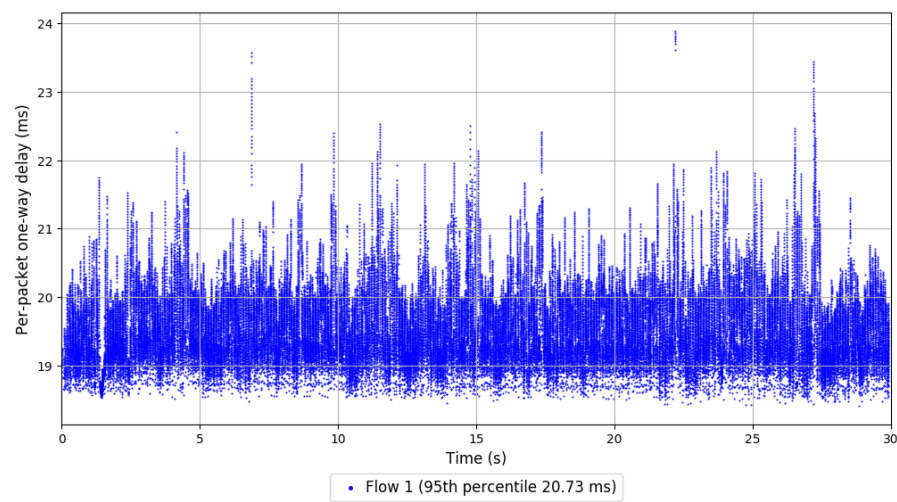
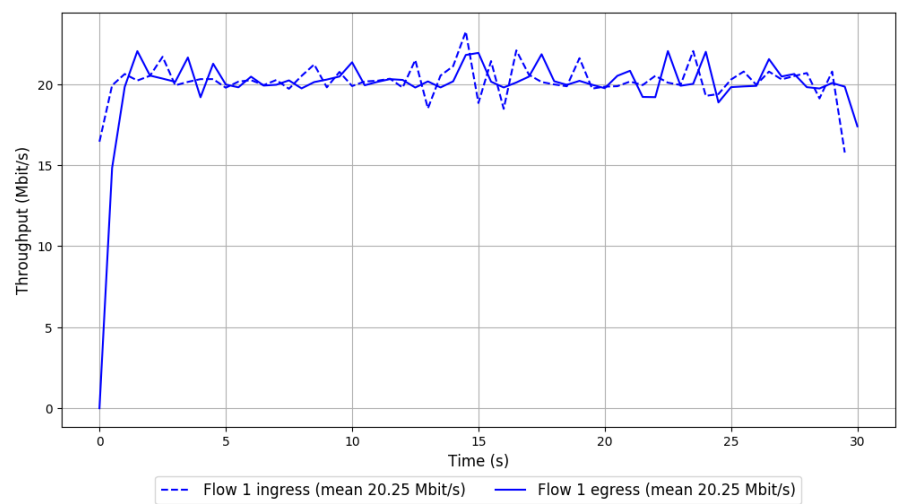
-- Flow 1:

Average throughput: 20.25 Mbit/s

95th percentile per-packet one-way delay: 20.726 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-06-18 11:34:49

End at: 2018-06-18 11:35:19

Local clock offset: 3.39 ms

Remote clock offset: 4.791 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.45 Mbit/s

95th percentile per-packet one-way delay: 19.734 ms

Loss rate: 0.01%

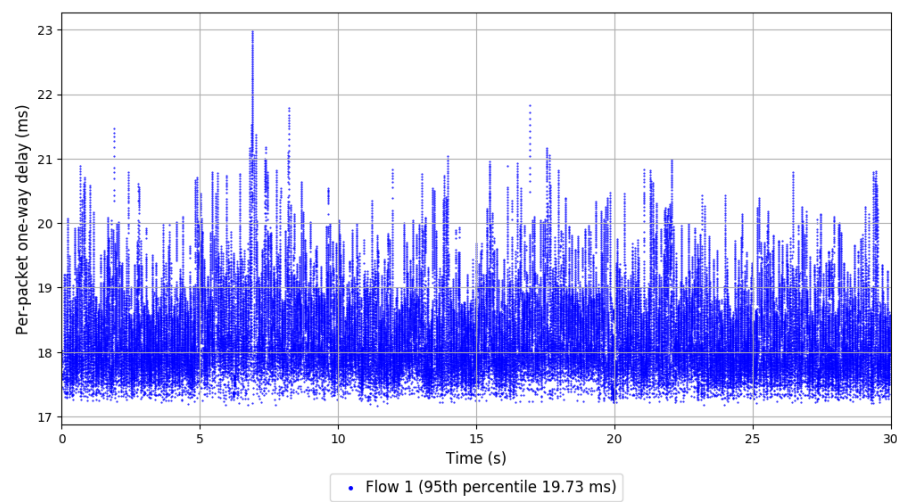
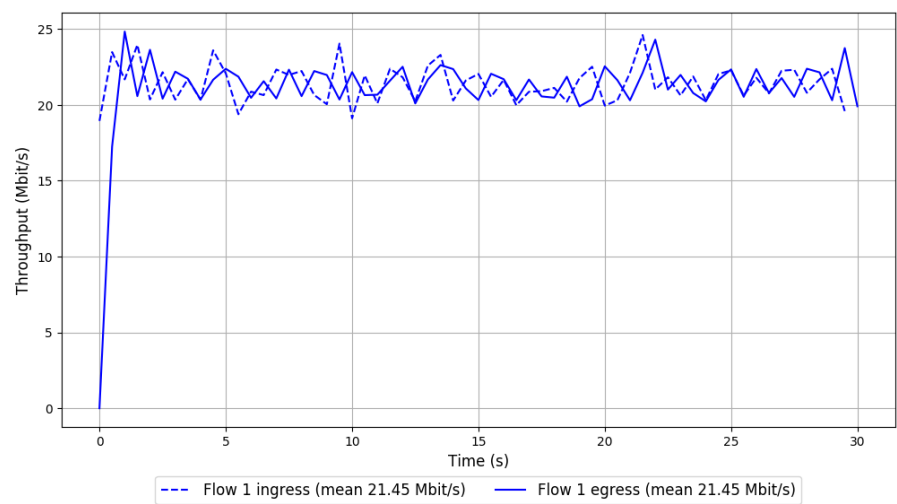
-- Flow 1:

Average throughput: 21.45 Mbit/s

95th percentile per-packet one-way delay: 19.734 ms

Loss rate: 0.01%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-06-18 11:58:33

End at: 2018-06-18 11:59:03

Local clock offset: 3.63 ms

Remote clock offset: 3.489 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.42 Mbit/s

95th percentile per-packet one-way delay: 21.539 ms

Loss rate: 0.00%

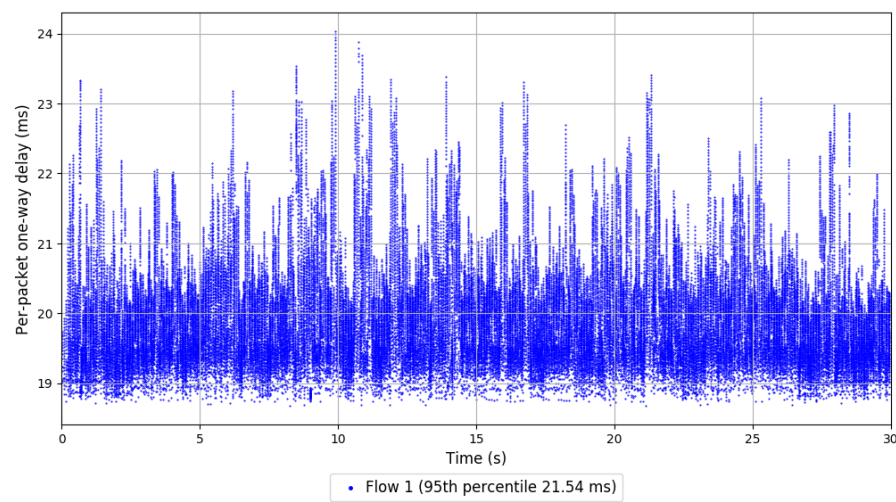
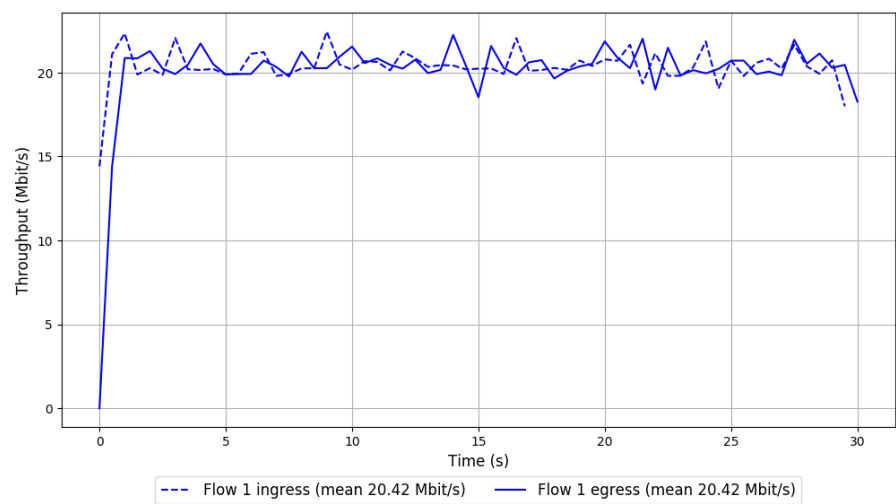
-- Flow 1:

Average throughput: 20.42 Mbit/s

95th percentile per-packet one-way delay: 21.539 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-18 12:22:31

End at: 2018-06-18 12:23:01

Local clock offset: 3.759 ms

Remote clock offset: 2.571 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 21.481 ms

Loss rate: 0.00%

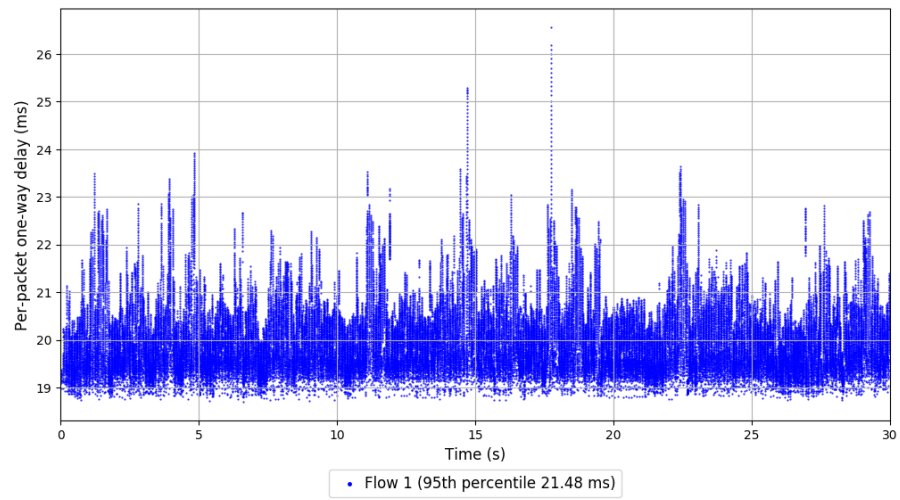
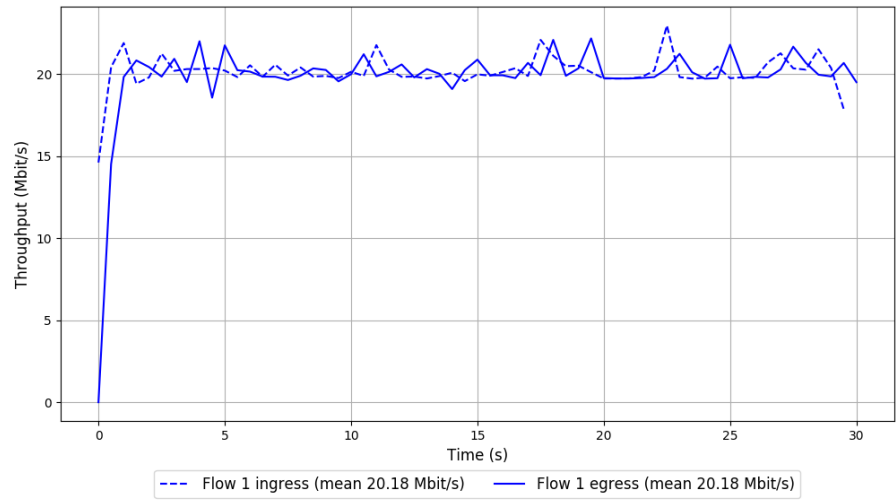
-- Flow 1:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 21.481 ms

Loss rate: 0.00%

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



Run 10: Statistics of Sprout

Start at: 2018-06-18 12:46:33

End at: 2018-06-18 12:47:03

Local clock offset: 3.659 ms

Remote clock offset: 1.527 ms

# Below is generated by plot.py at 2018-06-18 14:16:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.26 Mbit/s

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

Loss rate: 0.00%

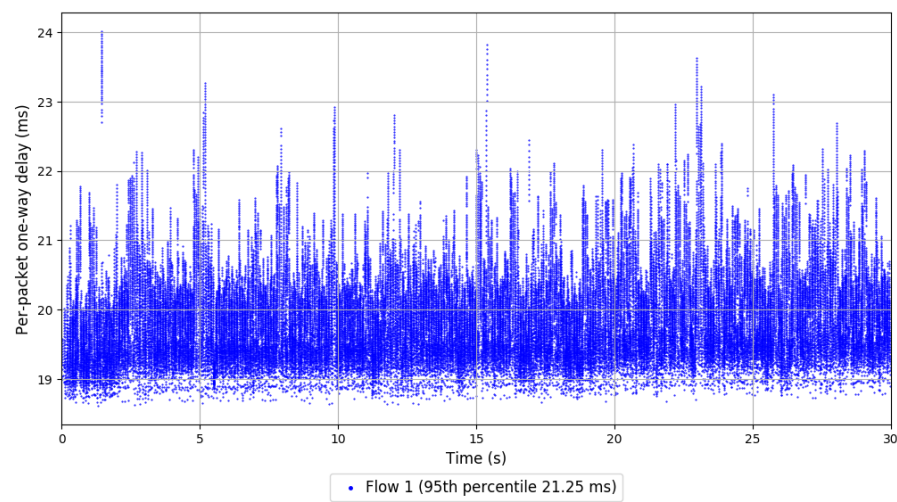
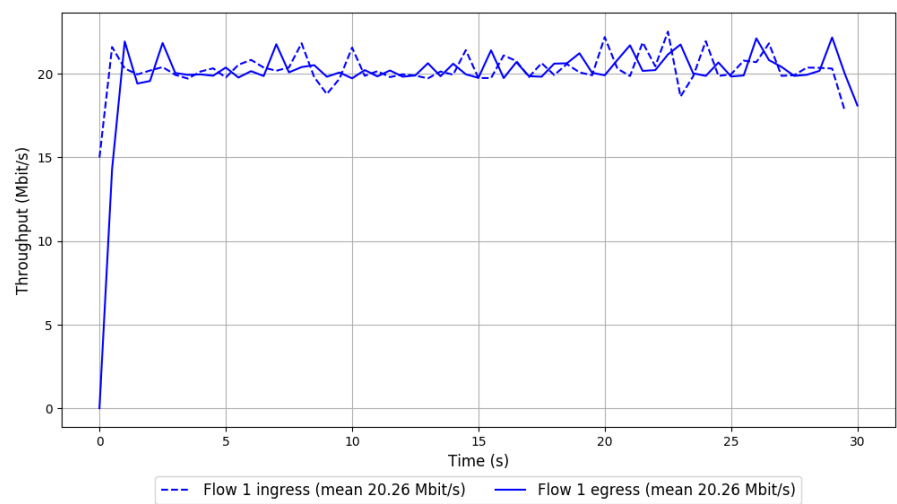
-- Flow 1:

Average throughput: 20.26 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-06-18 09:01:11

End at: 2018-06-18 09:01:41

Local clock offset: 2.578 ms

Remote clock offset: 3.13 ms

# Below is generated by plot.py at 2018-06-18 14:19:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.92 Mbit/s

95th percentile per-packet one-way delay: 18.046 ms

Loss rate: 0.00%

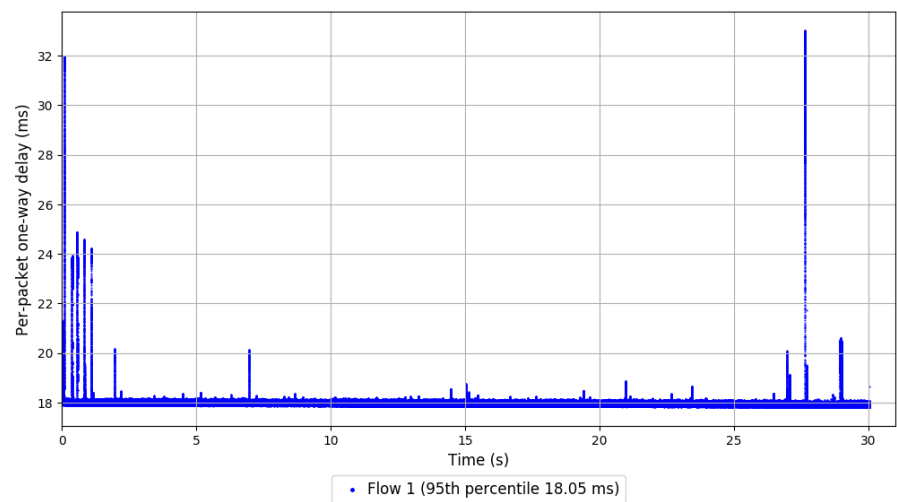
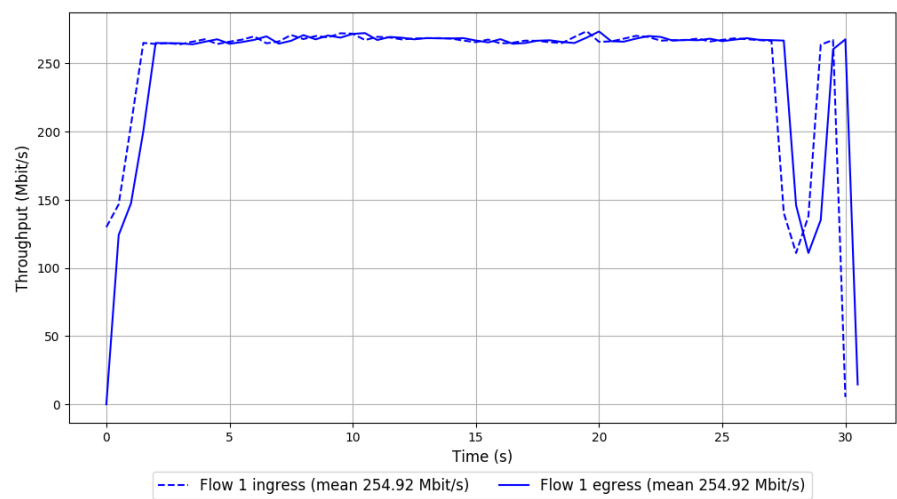
-- Flow 1:

Average throughput: 254.92 Mbit/s

95th percentile per-packet one-way delay: 18.046 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-18 09:25:12

End at: 2018-06-18 09:25:42

Local clock offset: 3.293 ms

Remote clock offset: 5.164 ms

# Below is generated by plot.py at 2018-06-18 14:19:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 259.23 Mbit/s

95th percentile per-packet one-way delay: 18.661 ms

Loss rate: 0.00%

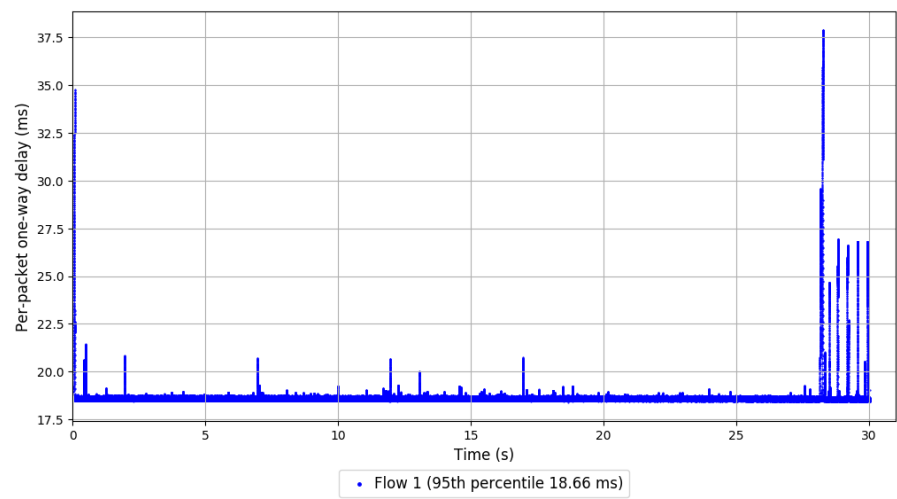
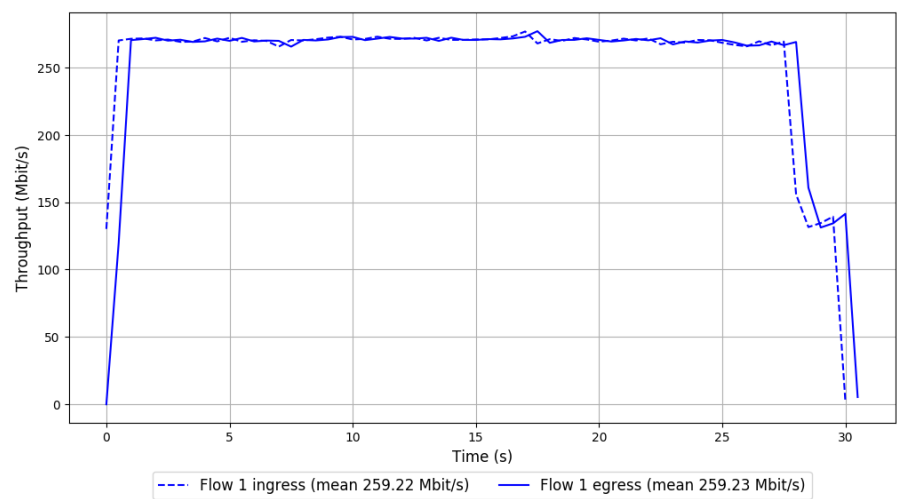
-- Flow 1:

Average throughput: 259.23 Mbit/s

95th percentile per-packet one-way delay: 18.661 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-18 09:49:24

End at: 2018-06-18 09:49:54

Local clock offset: 3.536 ms

Remote clock offset: 6.797 ms

# Below is generated by plot.py at 2018-06-18 14:19:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 259.01 Mbit/s

95th percentile per-packet one-way delay: 17.289 ms

Loss rate: 0.00%

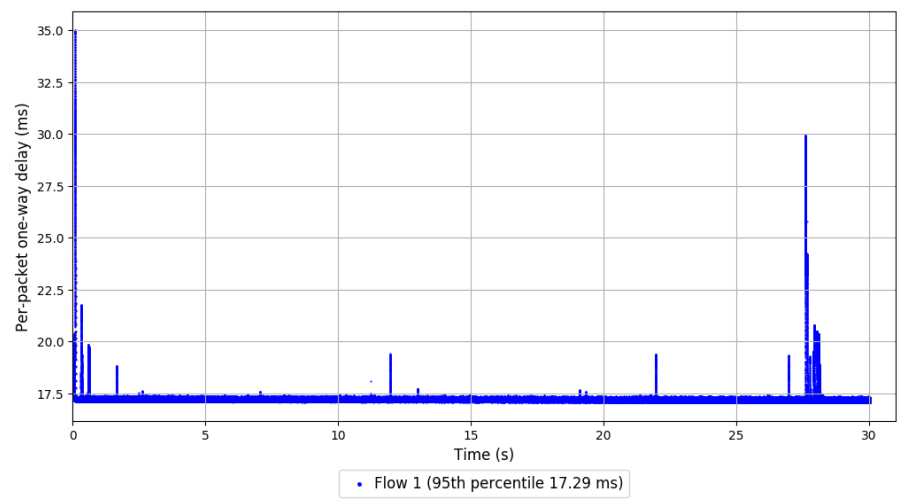
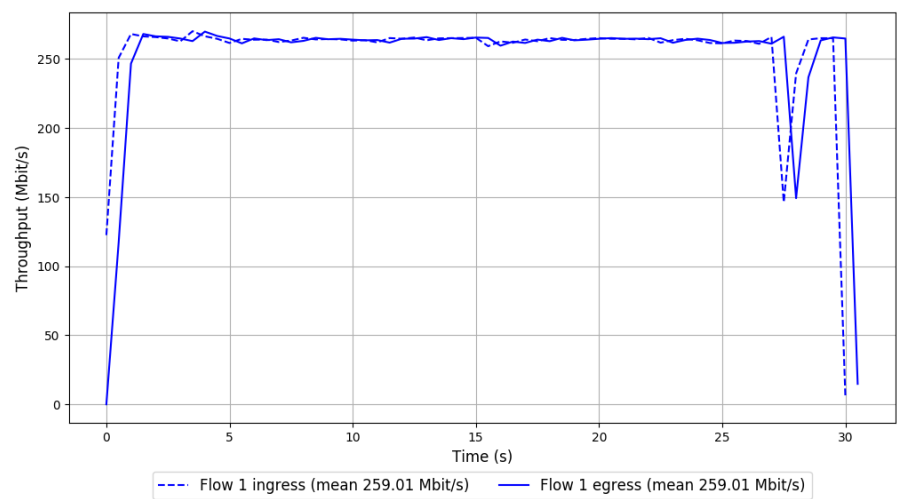
-- Flow 1:

Average throughput: 259.01 Mbit/s

95th percentile per-packet one-way delay: 17.289 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-18 10:13:36

End at: 2018-06-18 10:14:06

Local clock offset: 3.968 ms

Remote clock offset: -0.744 ms

# Below is generated by plot.py at 2018-06-18 14:19:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.63 Mbit/s

95th percentile per-packet one-way delay: 18.751 ms

Loss rate: 0.00%

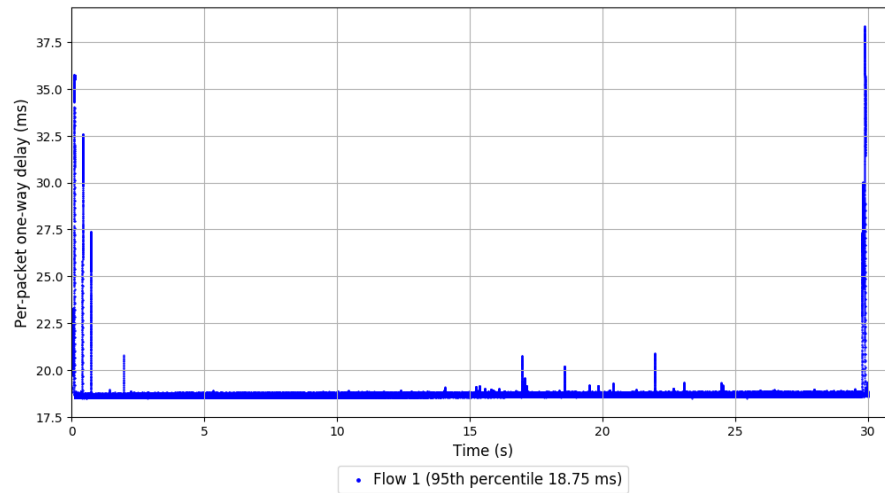
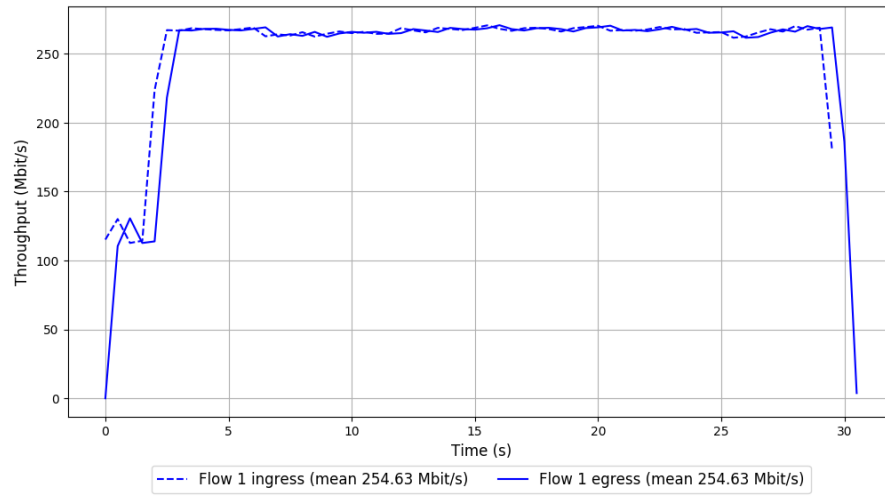
-- Flow 1:

Average throughput: 254.63 Mbit/s

95th percentile per-packet one-way delay: 18.751 ms

Loss rate: 0.00%

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

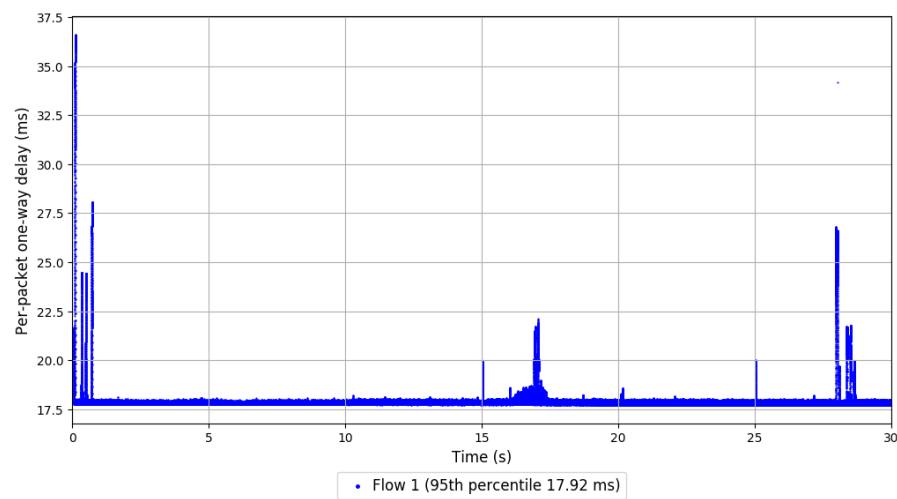
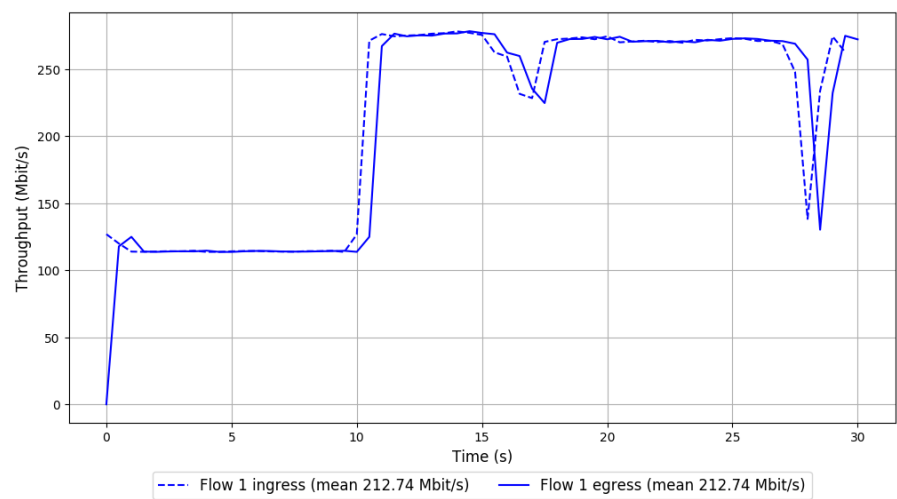


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-18 10:37:41  
End at: 2018-06-18 10:38:11  
Local clock offset: 4.038 ms  
Remote clock offset: -1.116 ms

# Below is generated by plot.py at 2018-06-18 14:19:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 212.74 Mbit/s  
95th percentile per-packet one-way delay: 17.917 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 212.74 Mbit/s  
95th percentile per-packet one-way delay: 17.917 ms  
Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-18 11:01:53

End at: 2018-06-18 11:02:23

Local clock offset: 3.477 ms

Remote clock offset: -1.221 ms

# Below is generated by plot.py at 2018-06-18 14:20:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 237.16 Mbit/s

95th percentile per-packet one-way delay: 17.758 ms

Loss rate: 0.00%

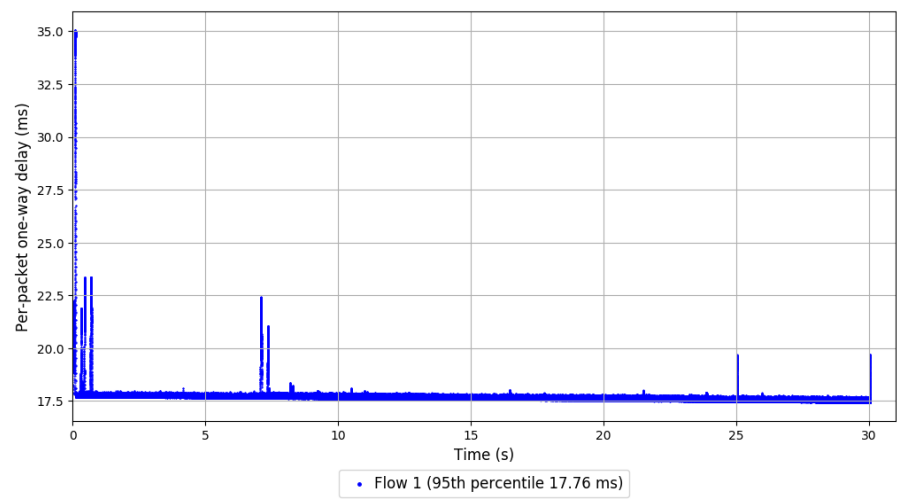
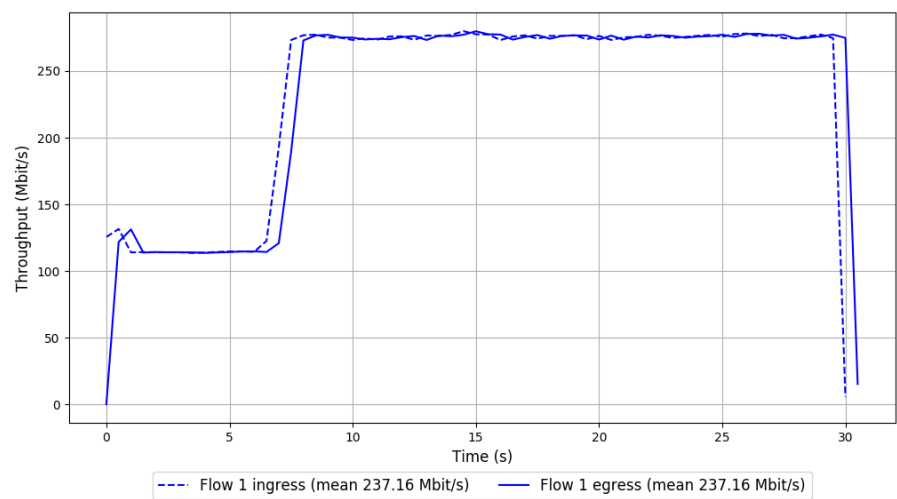
-- Flow 1:

Average throughput: 237.16 Mbit/s

95th percentile per-packet one-way delay: 17.758 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-18 11:25:49

End at: 2018-06-18 11:26:19

Local clock offset: 3.513 ms

Remote clock offset: 4.182 ms

# Below is generated by plot.py at 2018-06-18 14:22:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 260.91 Mbit/s

95th percentile per-packet one-way delay: 18.024 ms

Loss rate: 0.00%

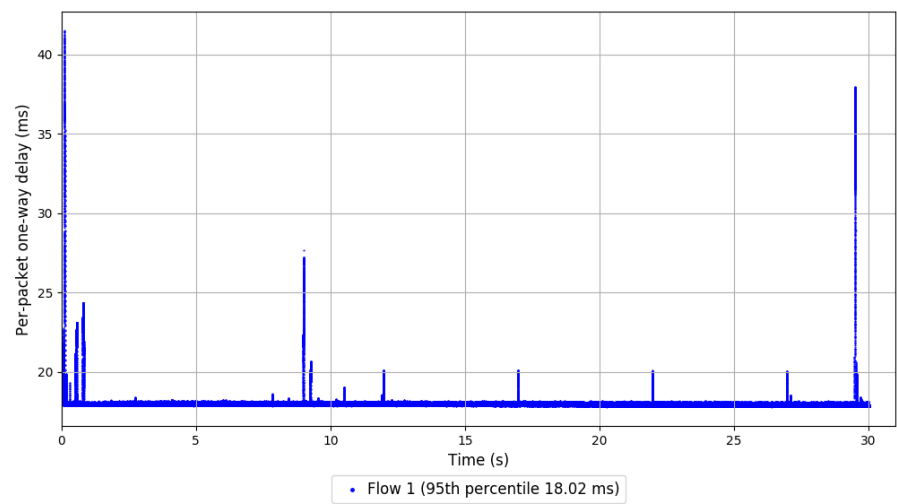
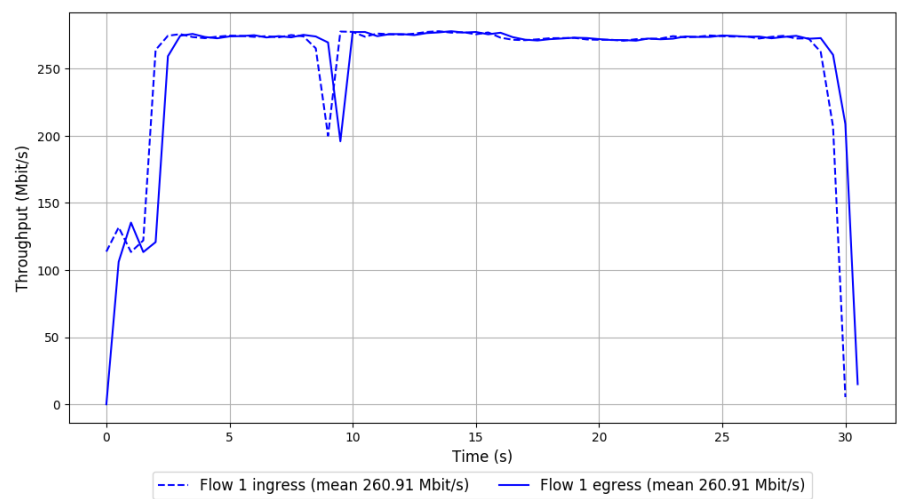
-- Flow 1:

Average throughput: 260.91 Mbit/s

95th percentile per-packet one-way delay: 18.024 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-18 11:49:37

End at: 2018-06-18 11:50:07

Local clock offset: 3.683 ms

Remote clock offset: 3.472 ms

# Below is generated by plot.py at 2018-06-18 14:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 251.91 Mbit/s

95th percentile per-packet one-way delay: 18.871 ms

Loss rate: 0.00%

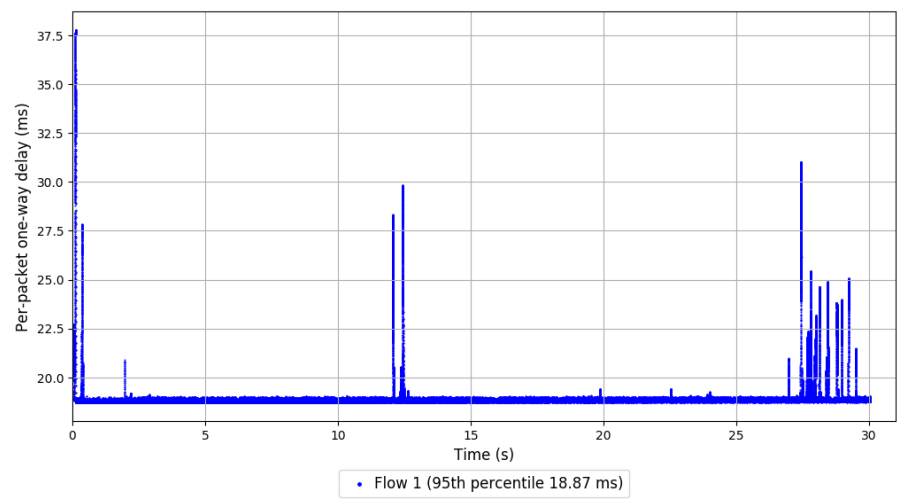
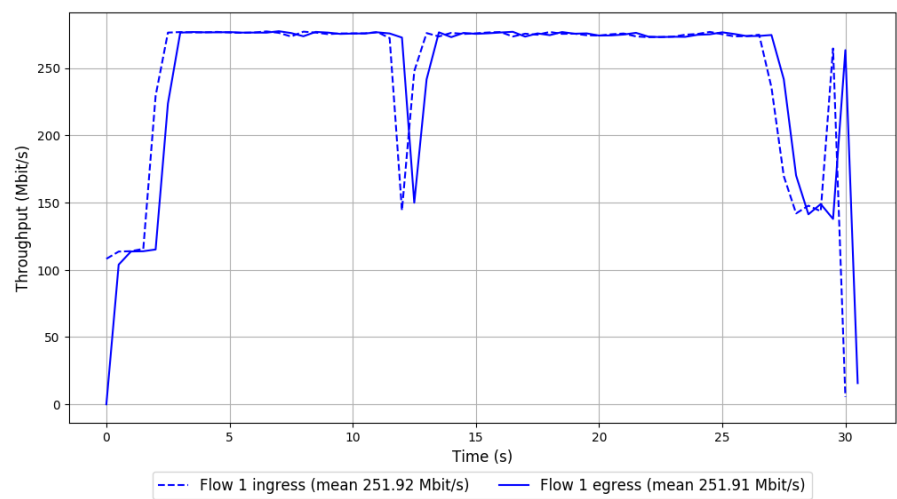
-- Flow 1:

Average throughput: 251.91 Mbit/s

95th percentile per-packet one-way delay: 18.871 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-18 12:13:28

End at: 2018-06-18 12:13:58

Local clock offset: 3.663 ms

Remote clock offset: 3.143 ms

# Below is generated by plot.py at 2018-06-18 14:23:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 197.31 Mbit/s

95th percentile per-packet one-way delay: 18.951 ms

Loss rate: 0.01%

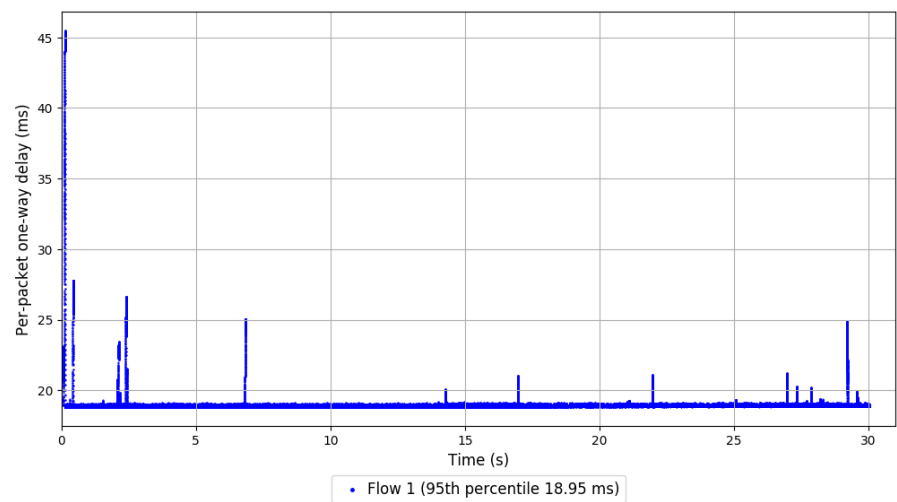
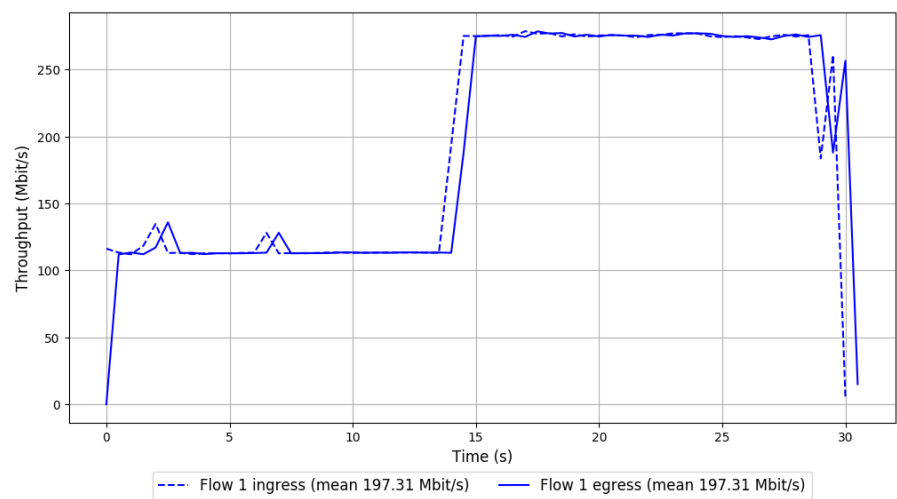
-- Flow 1:

Average throughput: 197.31 Mbit/s

95th percentile per-packet one-way delay: 18.951 ms

Loss rate: 0.01%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-18 12:37:25

End at: 2018-06-18 12:37:55

Local clock offset: 3.734 ms

Remote clock offset: 2.219 ms

# Below is generated by plot.py at 2018-06-18 14:24:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 249.58 Mbit/s

95th percentile per-packet one-way delay: 18.612 ms

Loss rate: 0.00%

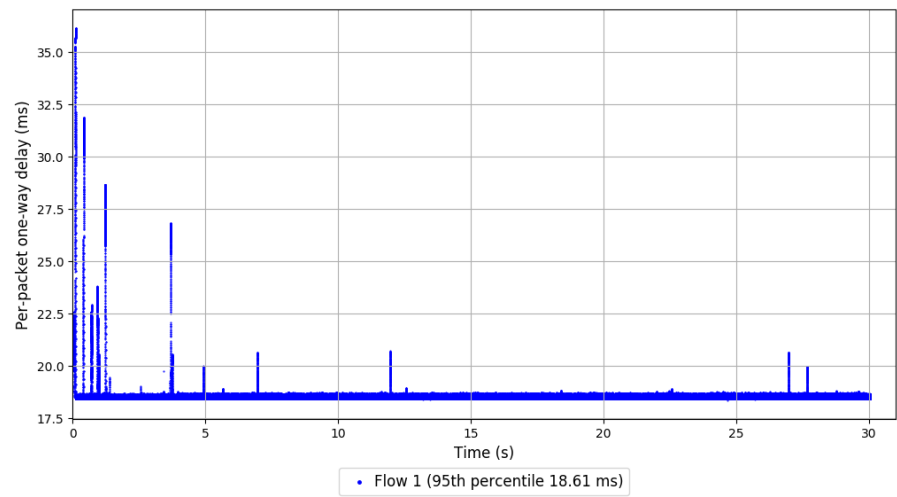
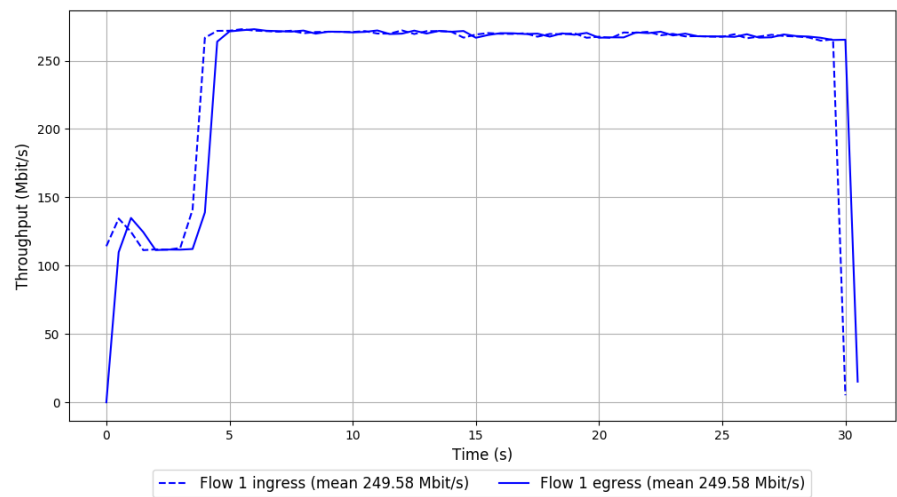
-- Flow 1:

Average throughput: 249.58 Mbit/s

95th percentile per-packet one-way delay: 18.612 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-18 09:07:13

End at: 2018-06-18 09:07:43

Local clock offset: 2.78 ms

Remote clock offset: 3.833 ms

# Below is generated by plot.py at 2018-06-18 14:24:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 320.28 Mbit/s

95th percentile per-packet one-way delay: 23.591 ms

Loss rate: 0.00%

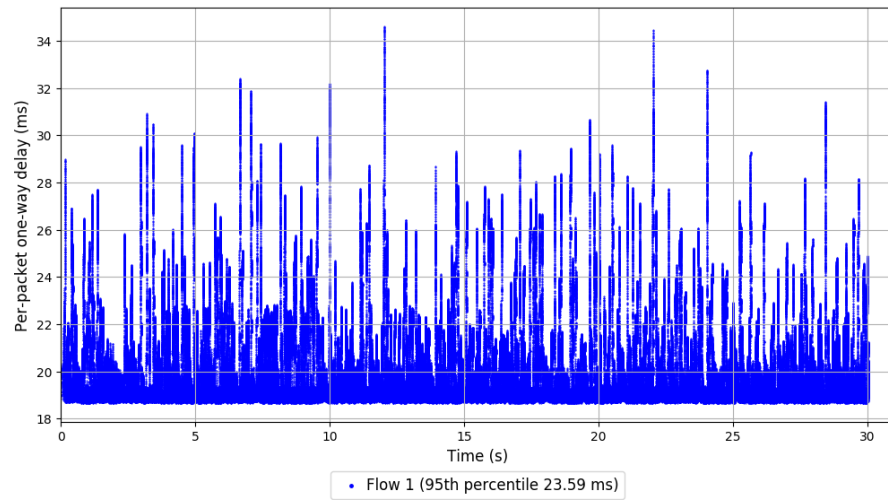
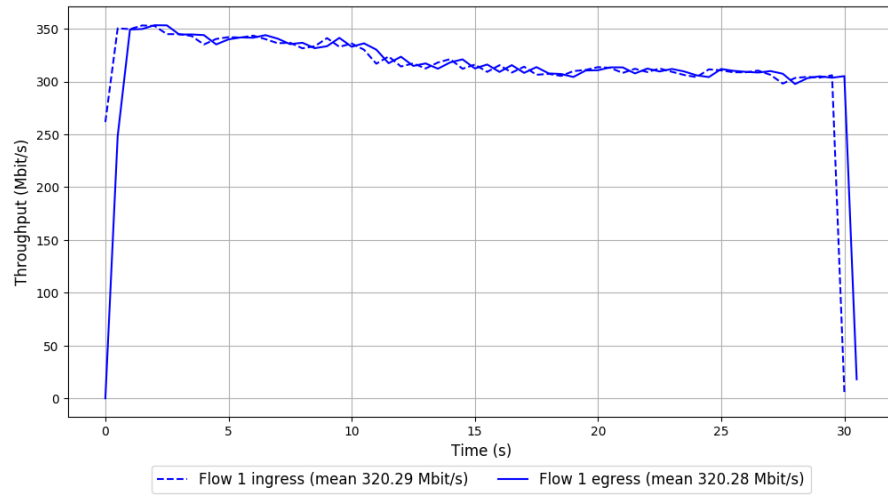
-- Flow 1:

Average throughput: 320.28 Mbit/s

95th percentile per-packet one-way delay: 23.591 ms

Loss rate: 0.00%

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



Run 2: Statistics of TCP Vegas

Start at: 2018-06-18 09:31:14

End at: 2018-06-18 09:31:44

Local clock offset: 3.172 ms

Remote clock offset: 5.648 ms

# Below is generated by plot.py at 2018-06-18 14:24:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 295.52 Mbit/s

95th percentile per-packet one-way delay: 23.120 ms

Loss rate: 0.01%

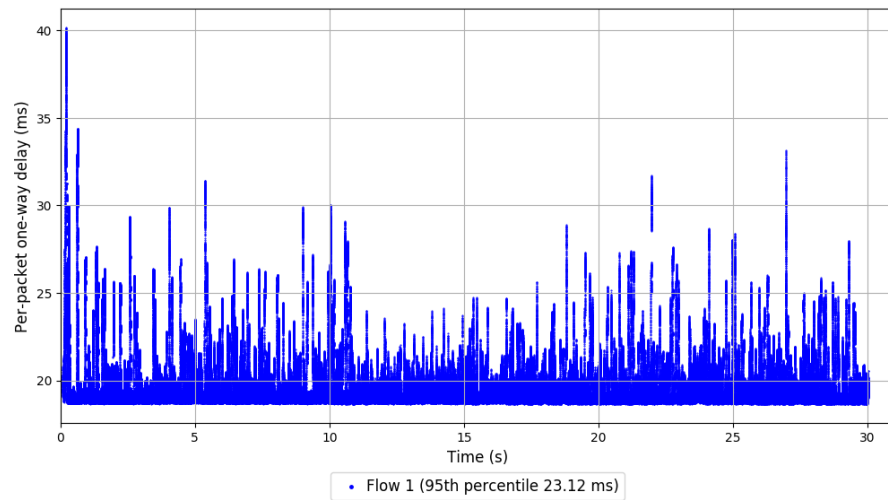
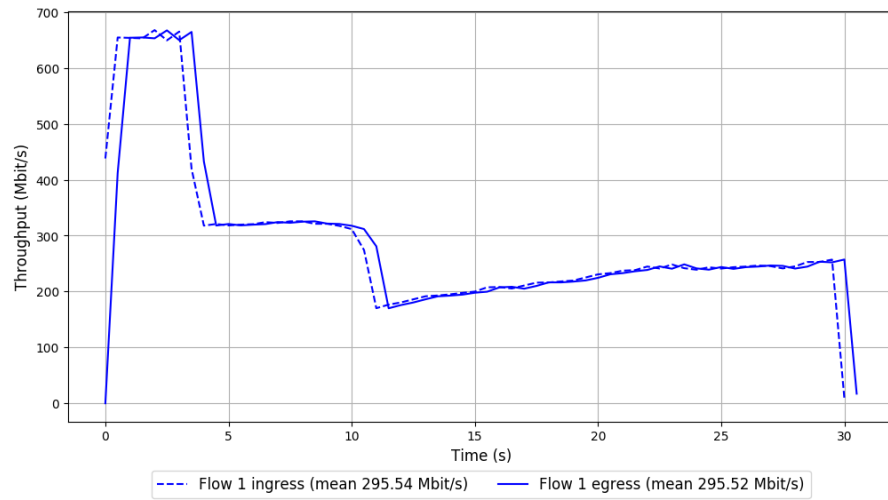
-- Flow 1:

Average throughput: 295.52 Mbit/s

95th percentile per-packet one-way delay: 23.120 ms

Loss rate: 0.01%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-06-18 09:55:26

End at: 2018-06-18 09:55:56

Local clock offset: 3.437 ms

Remote clock offset: 5.35 ms

# Below is generated by plot.py at 2018-06-18 14:24:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 289.04 Mbit/s

95th percentile per-packet one-way delay: 23.195 ms

Loss rate: 0.00%

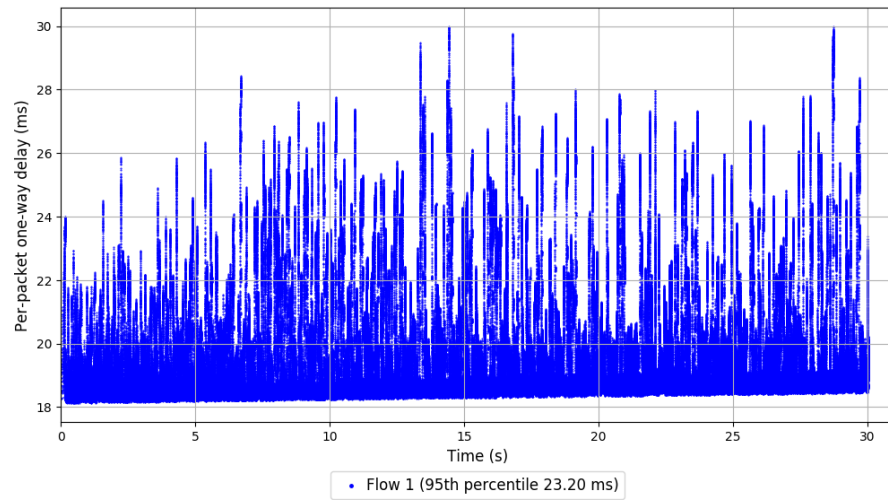
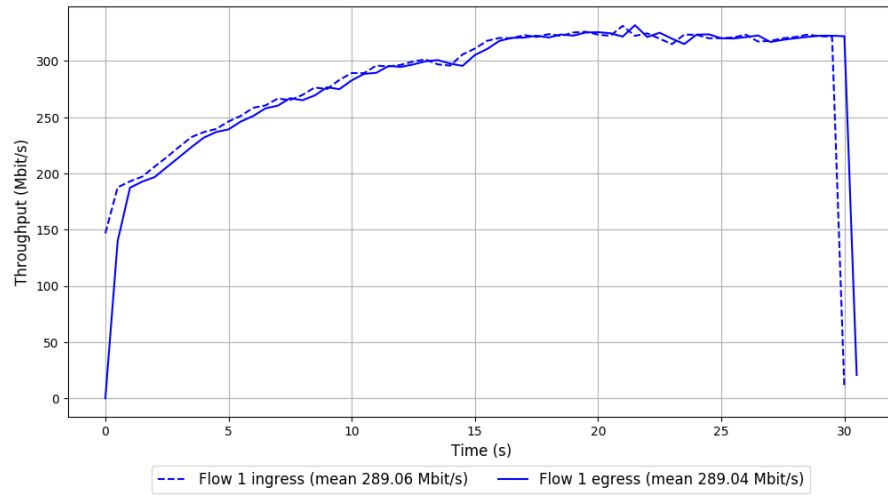
-- Flow 1:

Average throughput: 289.04 Mbit/s

95th percentile per-packet one-way delay: 23.195 ms

Loss rate: 0.00%

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

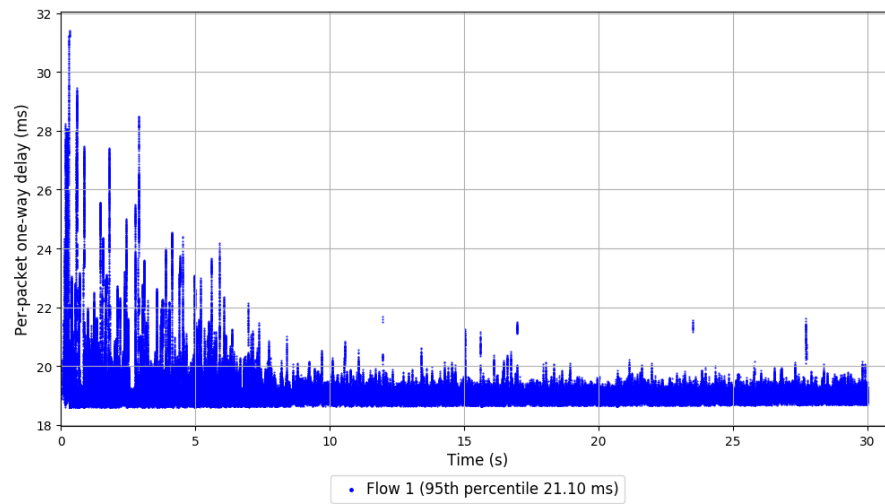
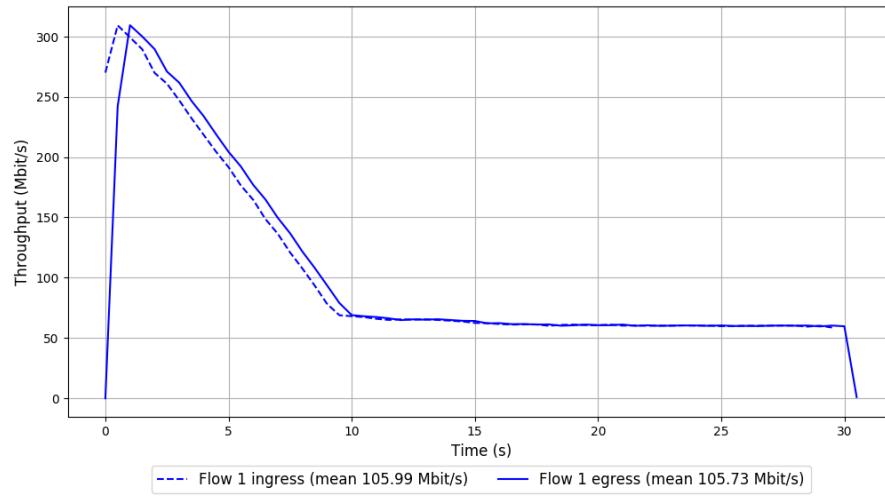


Run 4: Statistics of TCP Vegas

Start at: 2018-06-18 10:19:39  
End at: 2018-06-18 10:20:09  
Local clock offset: 4.105 ms  
Remote clock offset: -1.382 ms

# Below is generated by plot.py at 2018-06-18 14:24:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 105.73 Mbit/s  
95th percentile per-packet one-way delay: 21.096 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 105.73 Mbit/s  
95th percentile per-packet one-way delay: 21.096 ms  
Loss rate: 0.24%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-06-18 10:43:40

End at: 2018-06-18 10:44:10

Local clock offset: 3.679 ms

Remote clock offset: -1.02 ms

# Below is generated by plot.py at 2018-06-18 14:24:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 229.11 Mbit/s

95th percentile per-packet one-way delay: 20.768 ms

Loss rate: 0.11%

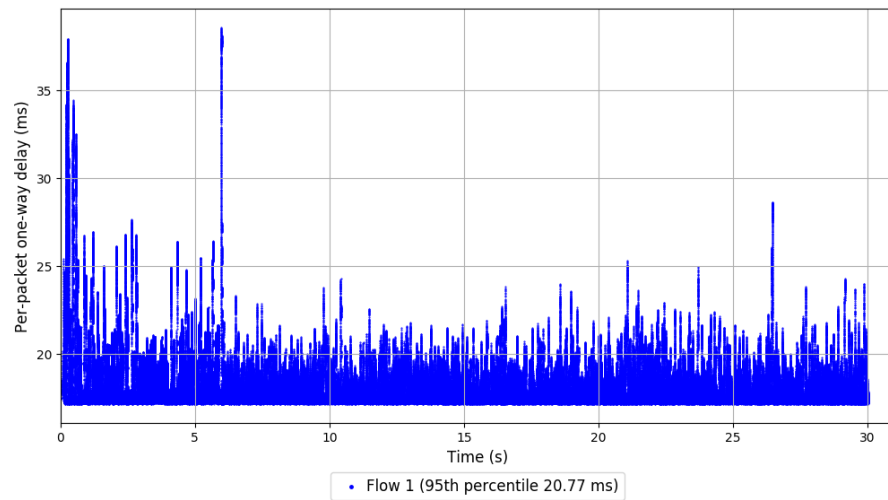
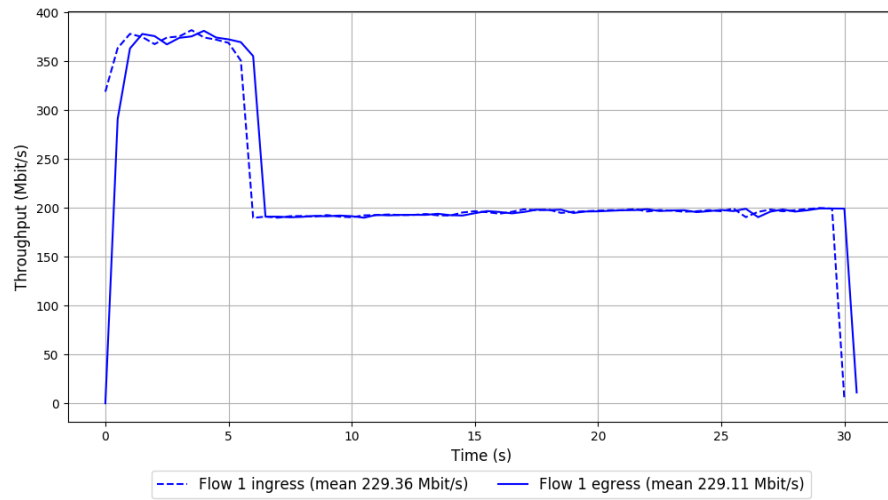
-- Flow 1:

Average throughput: 229.11 Mbit/s

95th percentile per-packet one-way delay: 20.768 ms

Loss rate: 0.11%

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



Run 6: Statistics of TCP Vegas

Start at: 2018-06-18 11:07:52

End at: 2018-06-18 11:08:22

Local clock offset: 3.493 ms

Remote clock offset: 1.334 ms

# Below is generated by plot.py at 2018-06-18 14:26:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 295.53 Mbit/s

95th percentile per-packet one-way delay: 22.603 ms

Loss rate: 0.01%

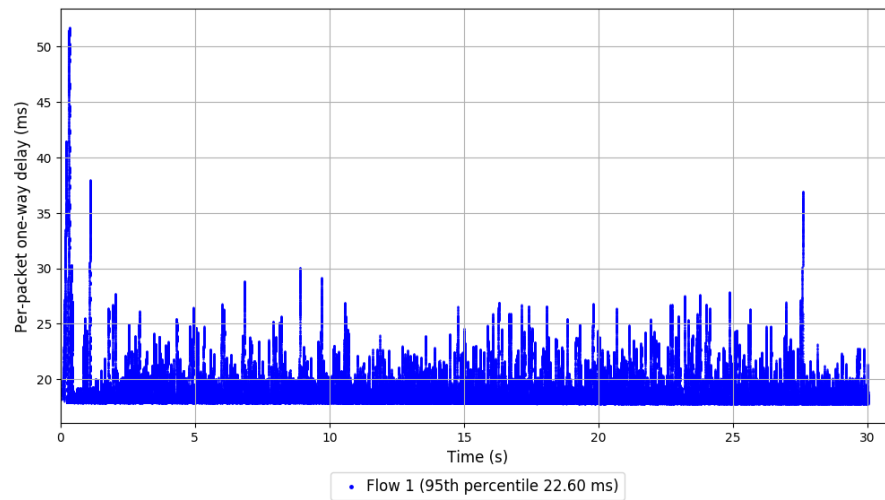
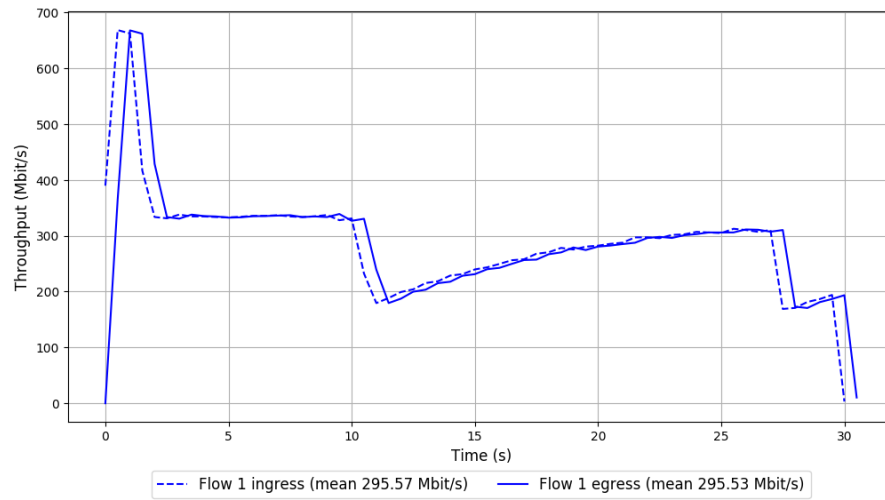
-- Flow 1:

Average throughput: 295.53 Mbit/s

95th percentile per-packet one-way delay: 22.603 ms

Loss rate: 0.01%

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



Run 7: Statistics of TCP Vegas

Start at: 2018-06-18 11:31:48

End at: 2018-06-18 11:32:18

Local clock offset: 3.502 ms

Remote clock offset: 4.619 ms

# Below is generated by plot.py at 2018-06-18 14:26:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 20.161 ms

Loss rate: 0.00%

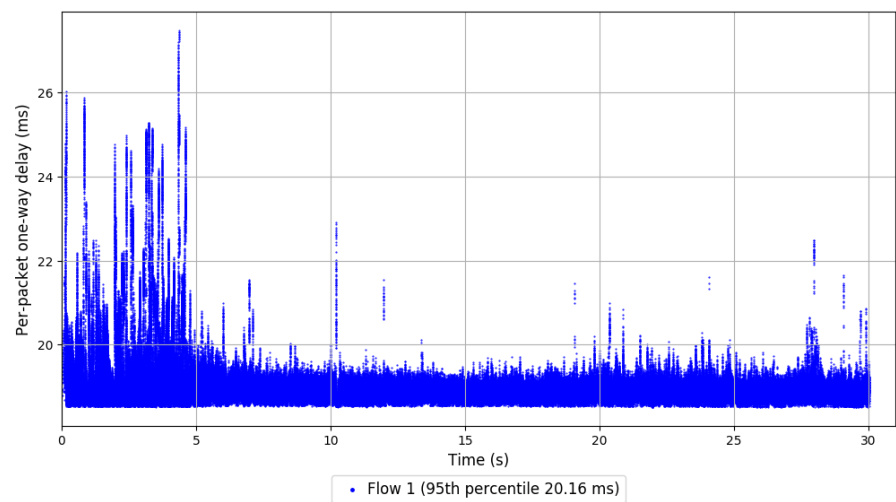
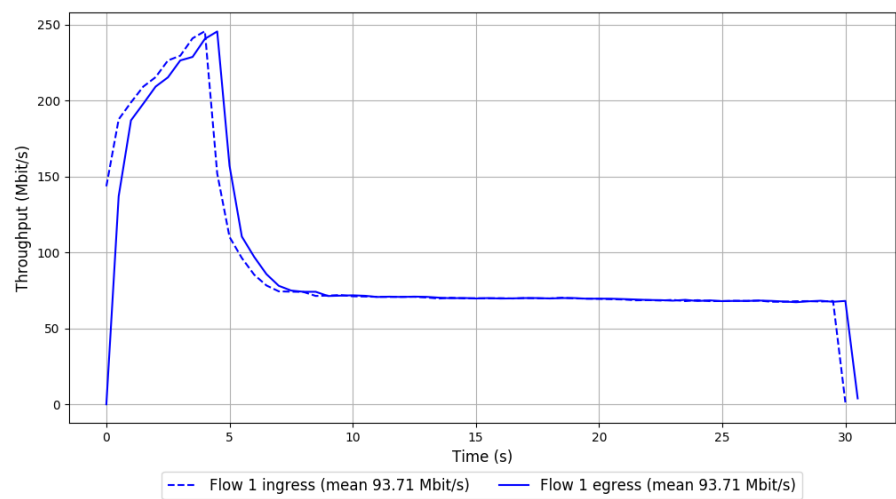
-- Flow 1:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 20.161 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-18 11:55:34

End at: 2018-06-18 11:56:04

Local clock offset: 3.709 ms

Remote clock offset: 3.401 ms

# Below is generated by plot.py at 2018-06-18 14:26:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 105.06 Mbit/s

95th percentile per-packet one-way delay: 21.909 ms

Loss rate: 0.00%

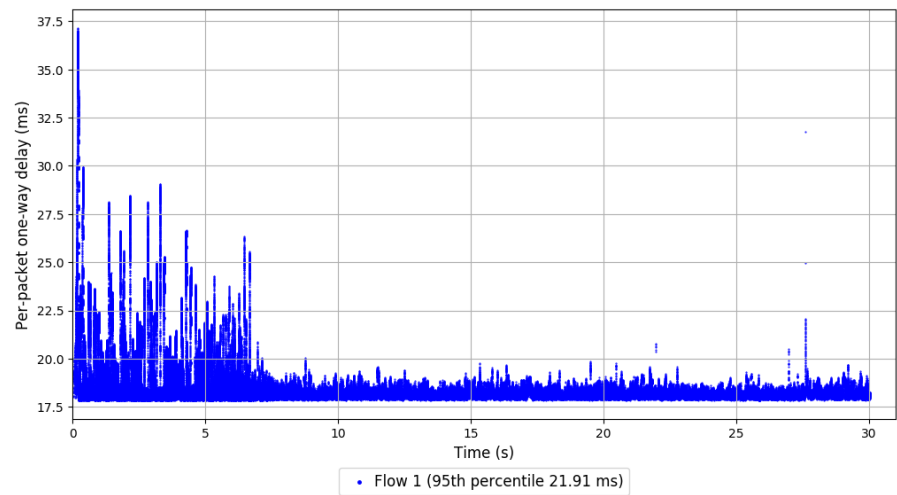
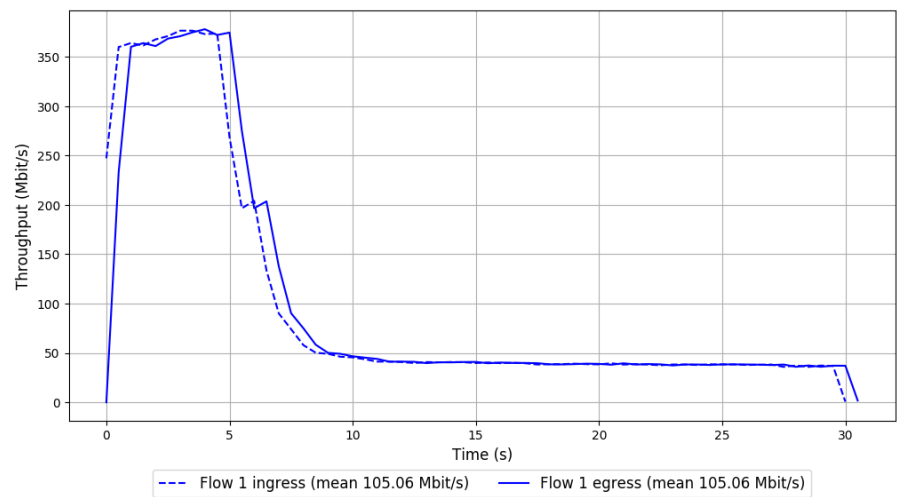
-- Flow 1:

Average throughput: 105.06 Mbit/s

95th percentile per-packet one-way delay: 21.909 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-18 12:19:27

End at: 2018-06-18 12:19:57

Local clock offset: 3.761 ms

Remote clock offset: 2.791 ms

# Below is generated by plot.py at 2018-06-18 14:26:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 271.59 Mbit/s

95th percentile per-packet one-way delay: 23.076 ms

Loss rate: 0.00%

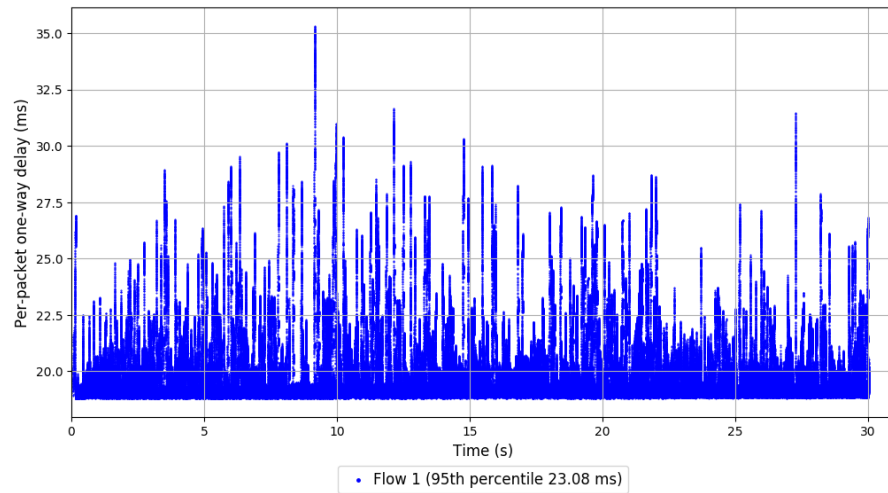
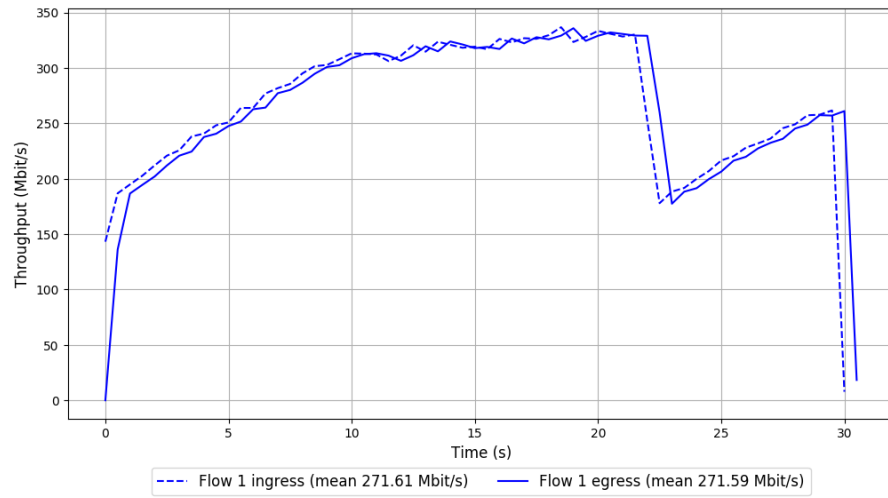
-- Flow 1:

Average throughput: 271.59 Mbit/s

95th percentile per-packet one-way delay: 23.076 ms

Loss rate: 0.00%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-06-18 12:43:28

End at: 2018-06-18 12:43:58

Local clock offset: 3.583 ms

Remote clock offset: 2.241 ms

# Below is generated by plot.py at 2018-06-18 14:26:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 282.66 Mbit/s

95th percentile per-packet one-way delay: 22.988 ms

Loss rate: 0.00%

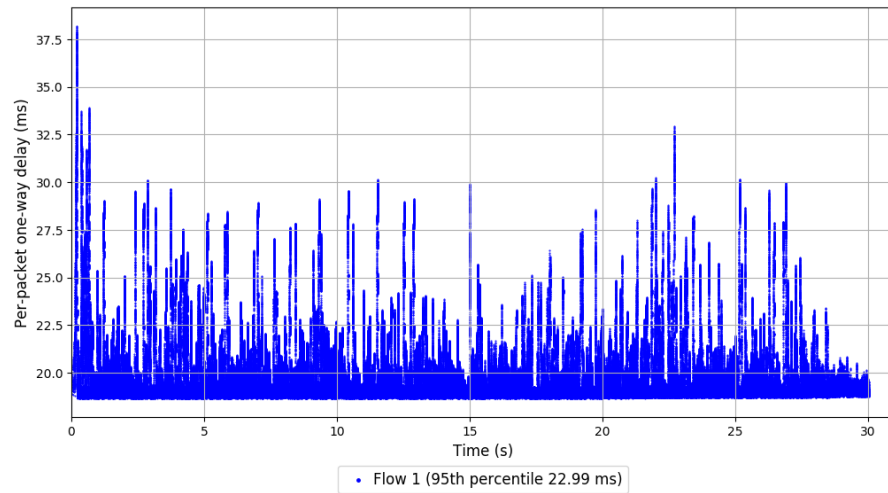
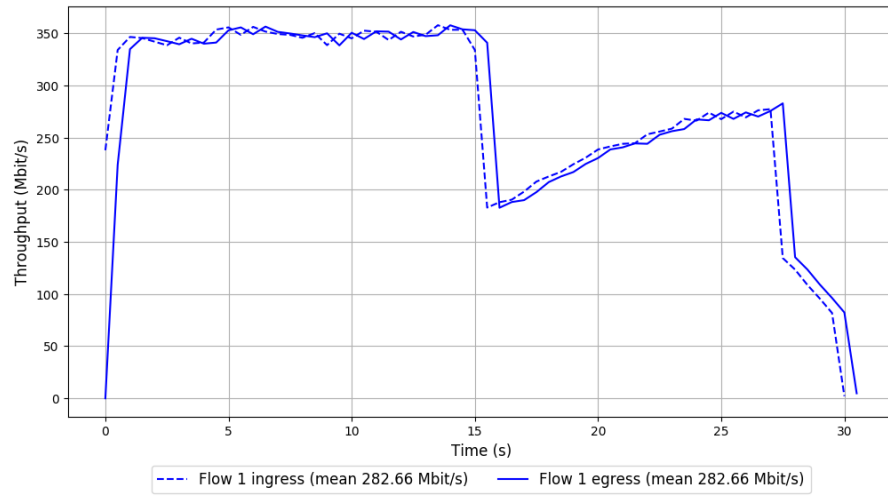
-- Flow 1:

Average throughput: 282.66 Mbit/s

95th percentile per-packet one-way delay: 22.988 ms

Loss rate: 0.00%

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



Run 1: Statistics of Verus

Start at: 2018-06-18 08:56:52

End at: 2018-06-18 08:57:22

Local clock offset: 2.771 ms

Remote clock offset: 2.506 ms

# Below is generated by plot.py at 2018-06-18 14:26:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 239.25 Mbit/s

95th percentile per-packet one-way delay: 46.860 ms

Loss rate: 13.61%

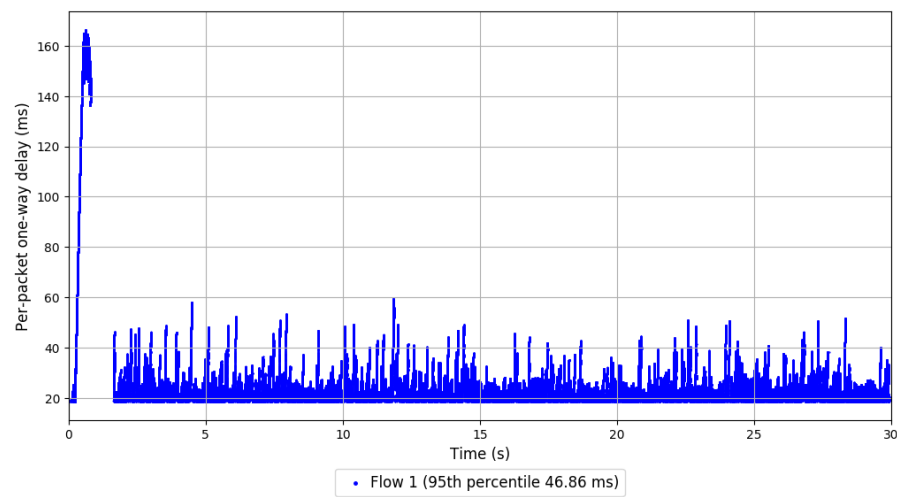
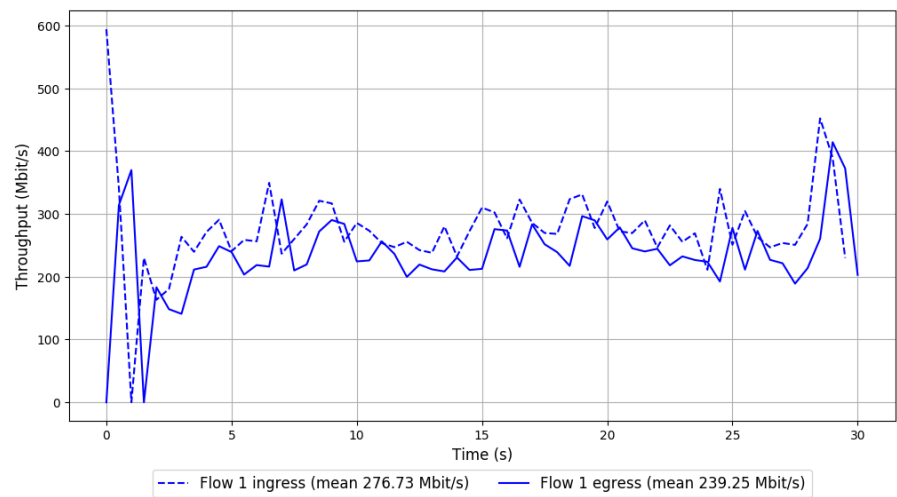
-- Flow 1:

Average throughput: 239.25 Mbit/s

95th percentile per-packet one-way delay: 46.860 ms

Loss rate: 13.61%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-18 09:20:53

End at: 2018-06-18 09:21:23

Local clock offset: 3.305 ms

Remote clock offset: 4.902 ms

# Below is generated by plot.py at 2018-06-18 14:26:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 205.59 Mbit/s

95th percentile per-packet one-way delay: 77.446 ms

Loss rate: 17.37%

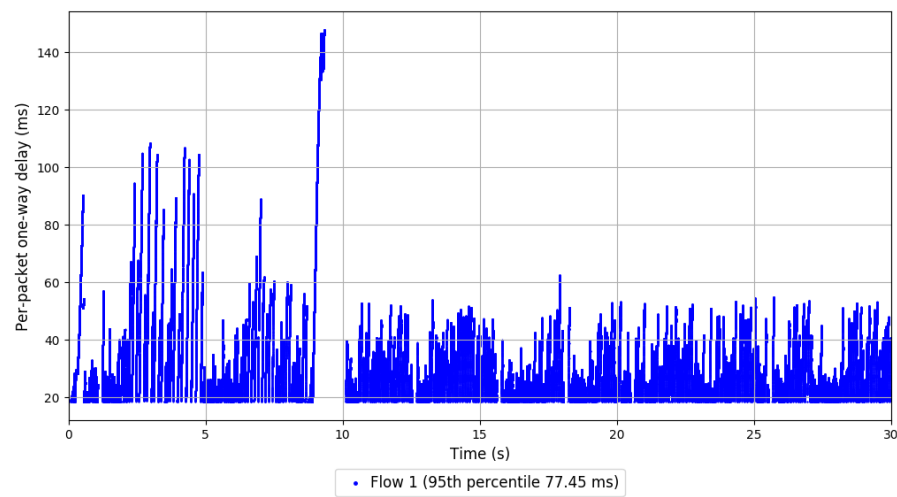
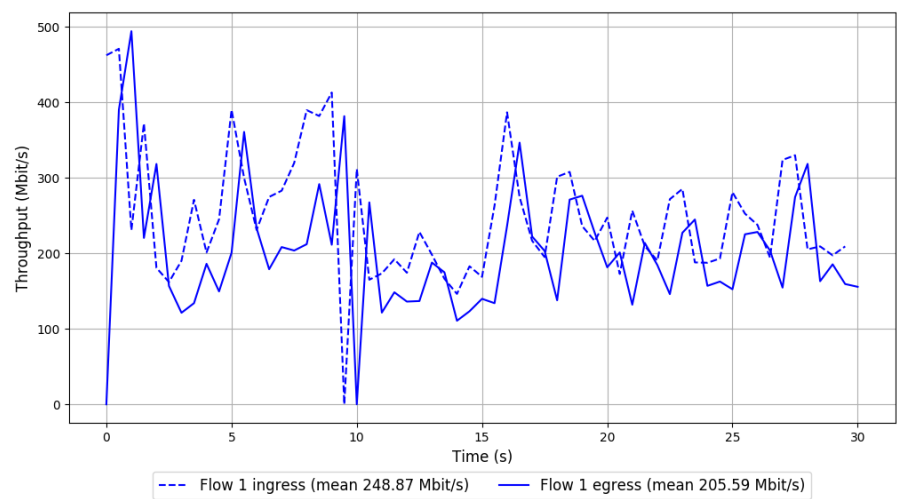
-- Flow 1:

Average throughput: 205.59 Mbit/s

95th percentile per-packet one-way delay: 77.446 ms

Loss rate: 17.37%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-18 09:44:59

End at: 2018-06-18 09:45:29

Local clock offset: 3.495 ms

Remote clock offset: 6.529 ms

# Below is generated by plot.py at 2018-06-18 14:27:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 280.48 Mbit/s

95th percentile per-packet one-way delay: 42.041 ms

Loss rate: 8.68%

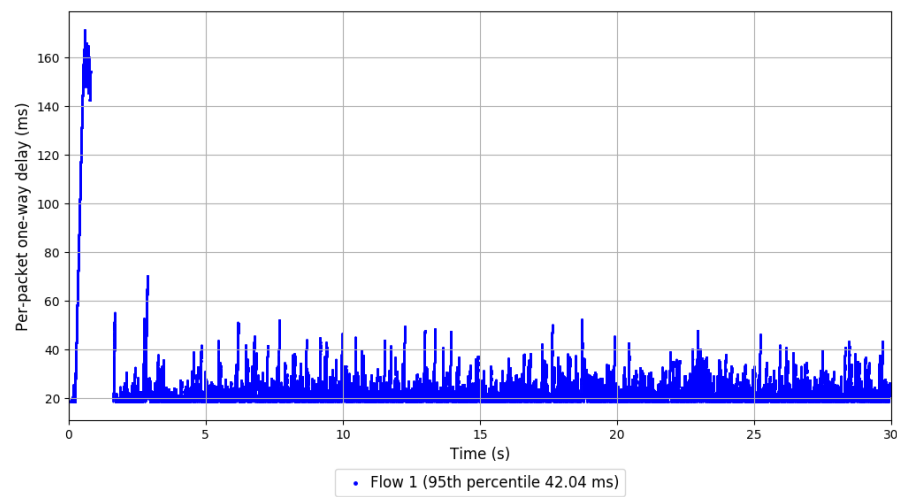
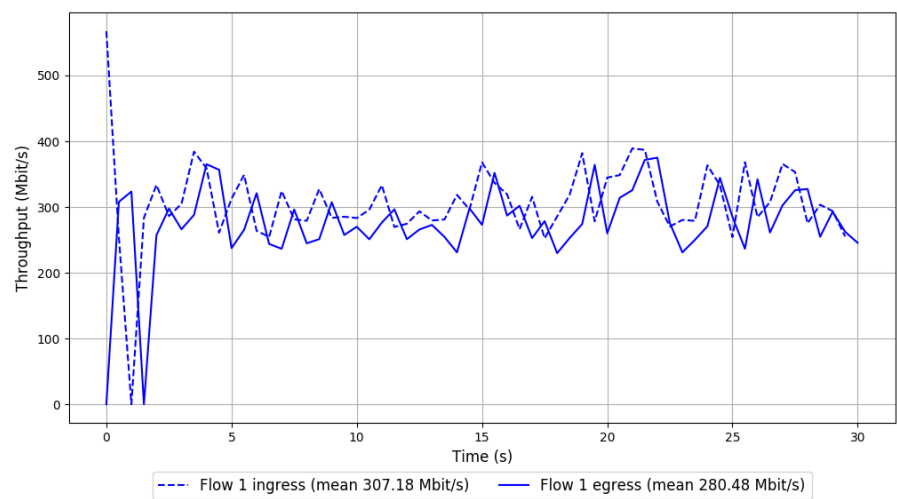
-- Flow 1:

Average throughput: 280.48 Mbit/s

95th percentile per-packet one-way delay: 42.041 ms

Loss rate: 8.68%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-18 10:09:14

End at: 2018-06-18 10:09:44

Local clock offset: 3.802 ms

Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2018-06-18 14:27:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 202.04 Mbit/s

95th percentile per-packet one-way delay: 46.721 ms

Loss rate: 16.70%

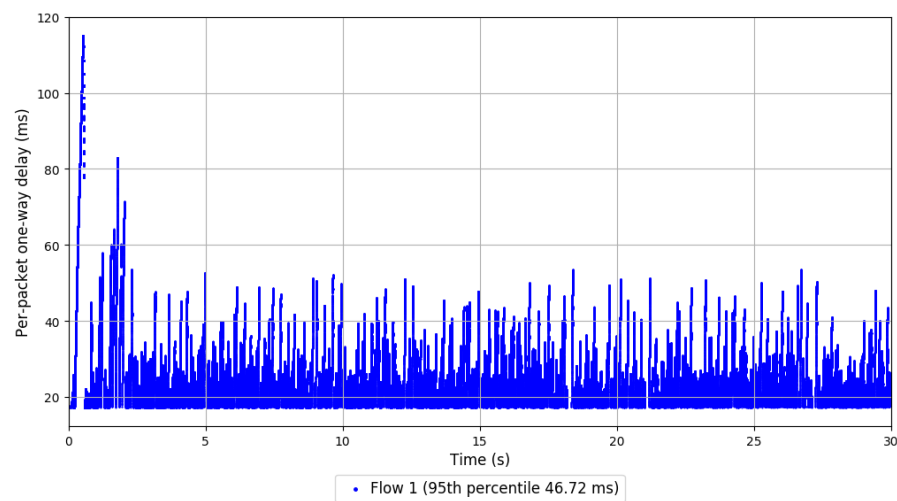
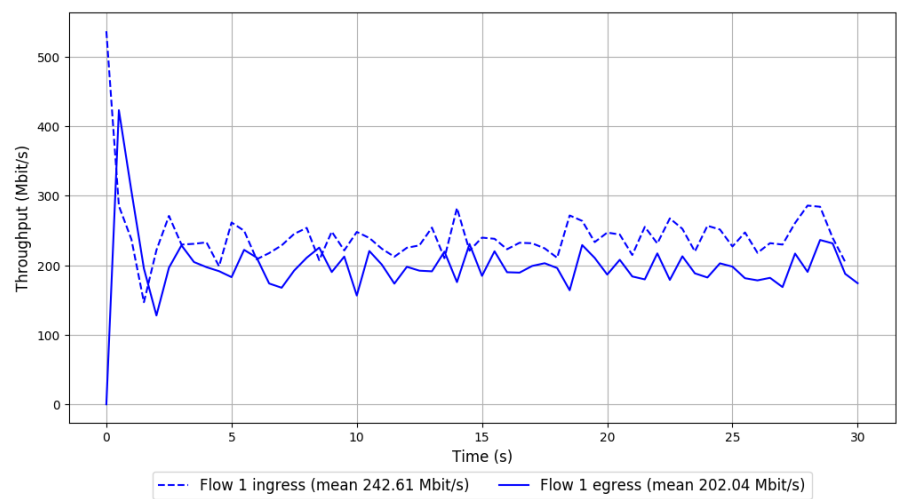
-- Flow 1:

Average throughput: 202.04 Mbit/s

95th percentile per-packet one-way delay: 46.721 ms

Loss rate: 16.70%

Run 4: Report of Verus — Data Link

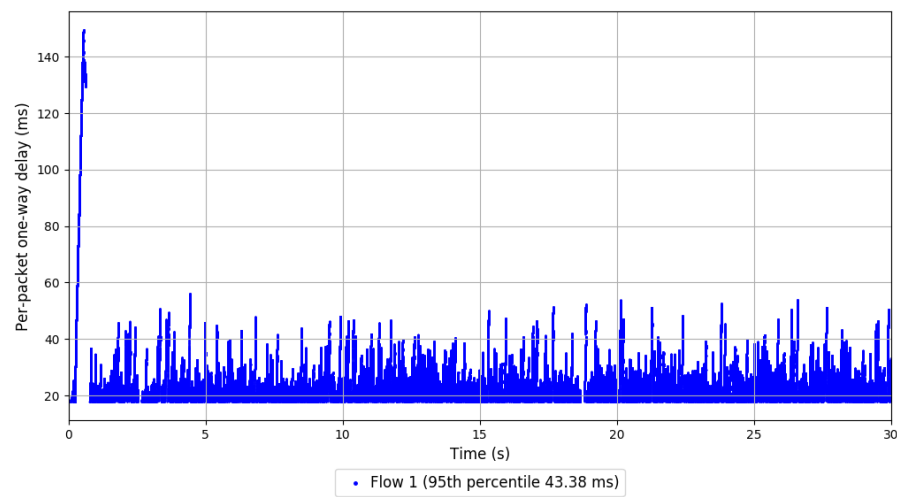
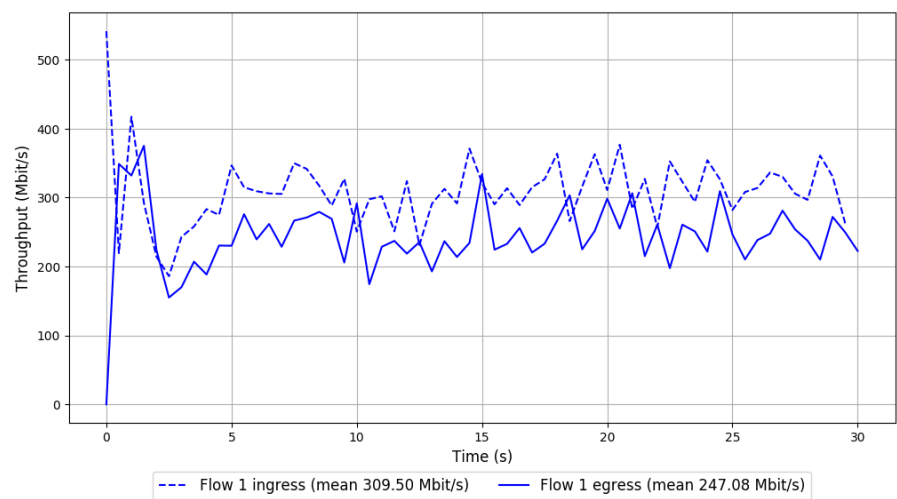


Run 5: Statistics of Verus

Start at: 2018-06-18 10:33:23  
End at: 2018-06-18 10:33:53  
Local clock offset: 4.267 ms  
Remote clock offset: -1.287 ms

# Below is generated by plot.py at 2018-06-18 14:28:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 247.08 Mbit/s  
95th percentile per-packet one-way delay: 43.381 ms  
Loss rate: 20.17%  
-- Flow 1:  
Average throughput: 247.08 Mbit/s  
95th percentile per-packet one-way delay: 43.381 ms  
Loss rate: 20.17%

Run 5: Report of Verus — Data Link

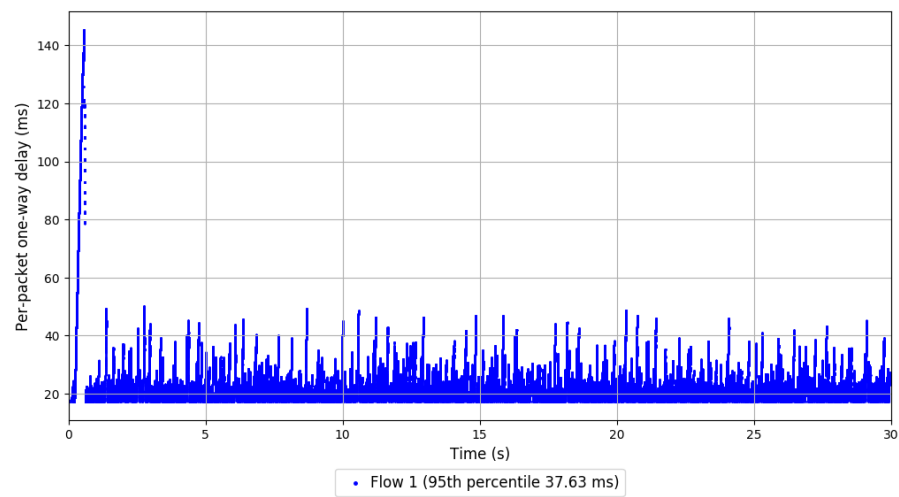
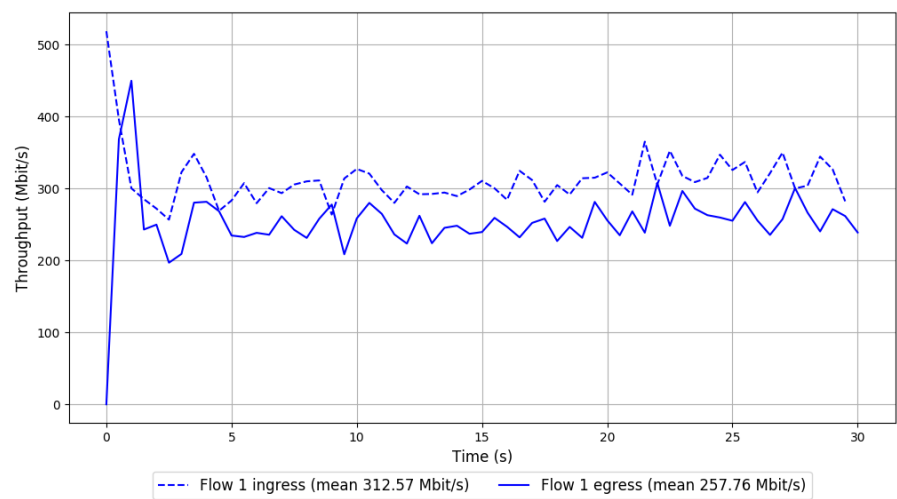


Run 6: Statistics of Verus

Start at: 2018-06-18 10:57:26  
End at: 2018-06-18 10:57:56  
Local clock offset: 3.526 ms  
Remote clock offset: -1.211 ms

# Below is generated by plot.py at 2018-06-18 14:29:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 257.76 Mbit/s  
95th percentile per-packet one-way delay: 37.626 ms  
Loss rate: 17.51%  
-- Flow 1:  
Average throughput: 257.76 Mbit/s  
95th percentile per-packet one-way delay: 37.626 ms  
Loss rate: 17.51%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-18 11:21:35

End at: 2018-06-18 11:22:05

Local clock offset: 3.53 ms

Remote clock offset: 3.77 ms

# Below is generated by plot.py at 2018-06-18 14:29:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.42 Mbit/s

95th percentile per-packet one-way delay: 48.724 ms

Loss rate: 15.68%

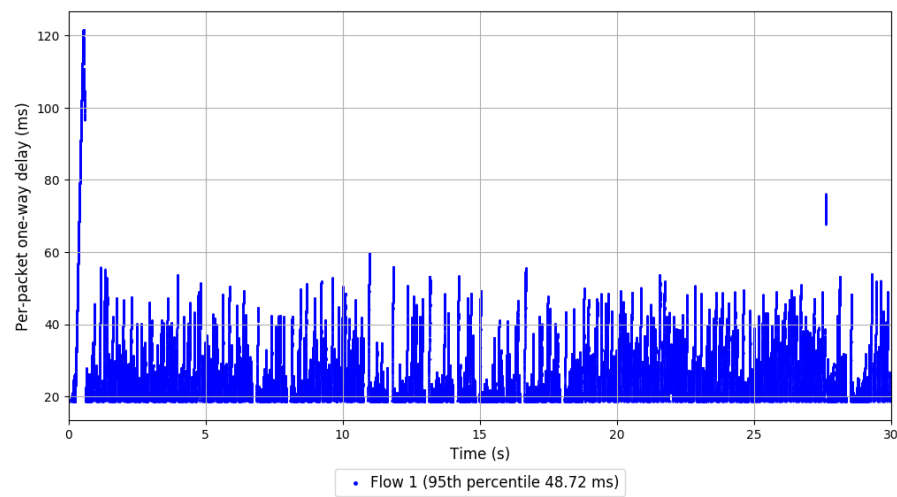
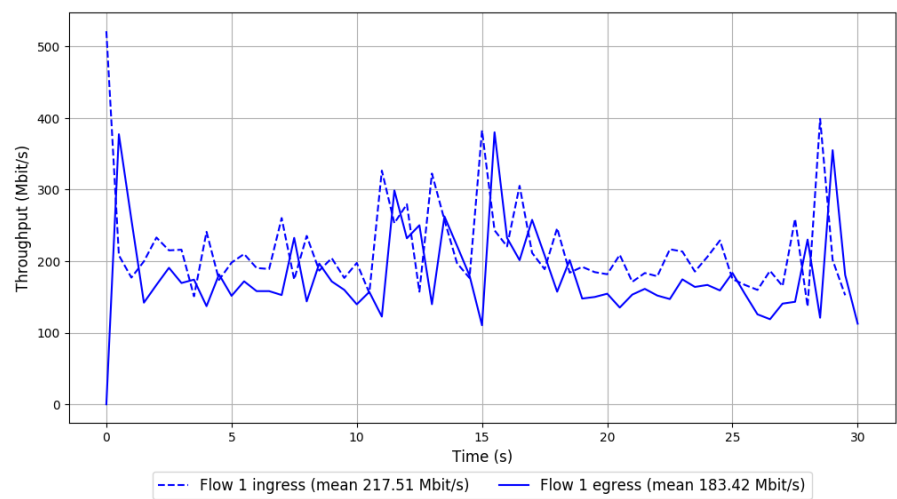
-- Flow 1:

Average throughput: 183.42 Mbit/s

95th percentile per-packet one-way delay: 48.724 ms

Loss rate: 15.68%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-18 11:45:26

End at: 2018-06-18 11:45:56

Local clock offset: 3.658 ms

Remote clock offset: 3.683 ms

# Below is generated by plot.py at 2018-06-18 14:29:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 220.37 Mbit/s

95th percentile per-packet one-way delay: 60.923 ms

Loss rate: 22.59%

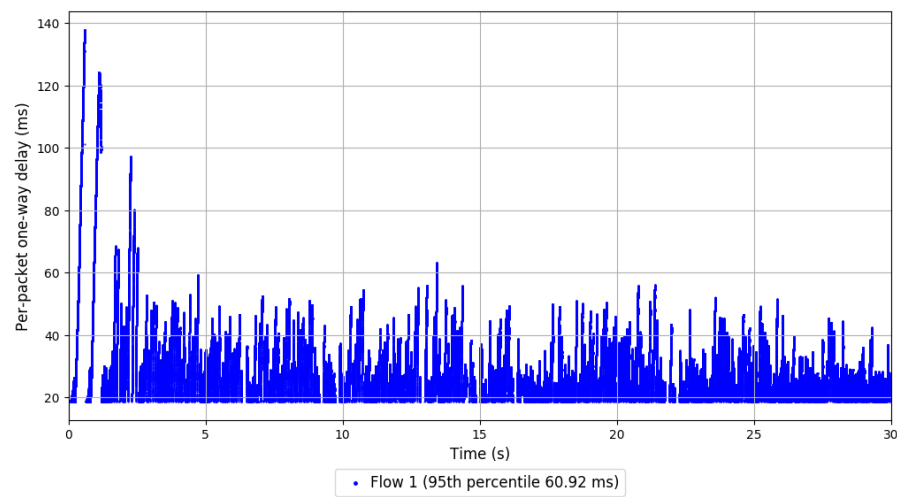
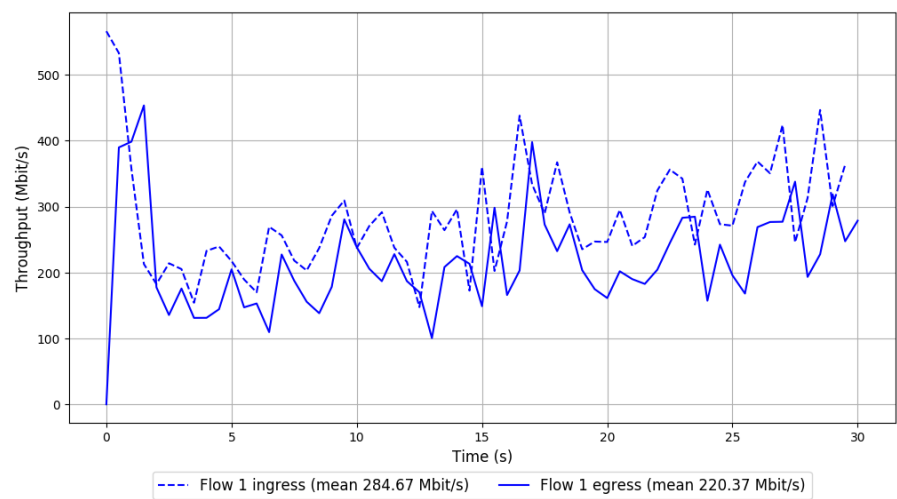
-- Flow 1:

Average throughput: 220.37 Mbit/s

95th percentile per-packet one-way delay: 60.923 ms

Loss rate: 22.59%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-18 12:09:07

End at: 2018-06-18 12:09:37

Local clock offset: 3.739 ms

Remote clock offset: 3.614 ms

# Below is generated by plot.py at 2018-06-18 14:29:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.49 Mbit/s

95th percentile per-packet one-way delay: 43.560 ms

Loss rate: 10.73%

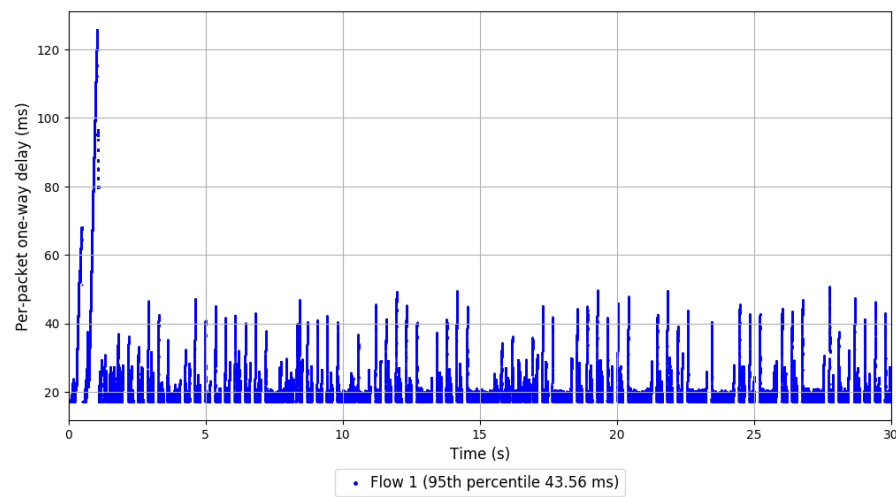
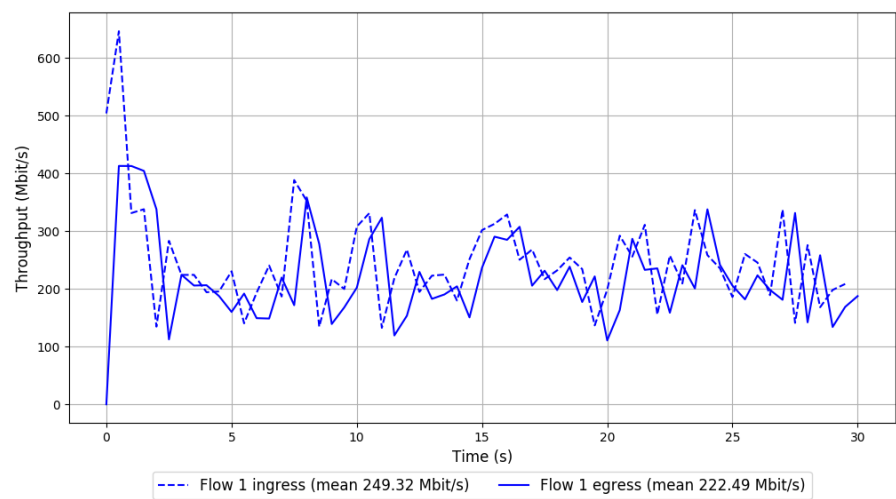
-- Flow 1:

Average throughput: 222.49 Mbit/s

95th percentile per-packet one-way delay: 43.560 ms

Loss rate: 10.73%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-18 12:33:05

End at: 2018-06-18 12:33:35

Local clock offset: 3.755 ms

Remote clock offset: 2.326 ms

# Below is generated by plot.py at 2018-06-18 14:29:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 277.89 Mbit/s

95th percentile per-packet one-way delay: 37.078 ms

Loss rate: 12.80%

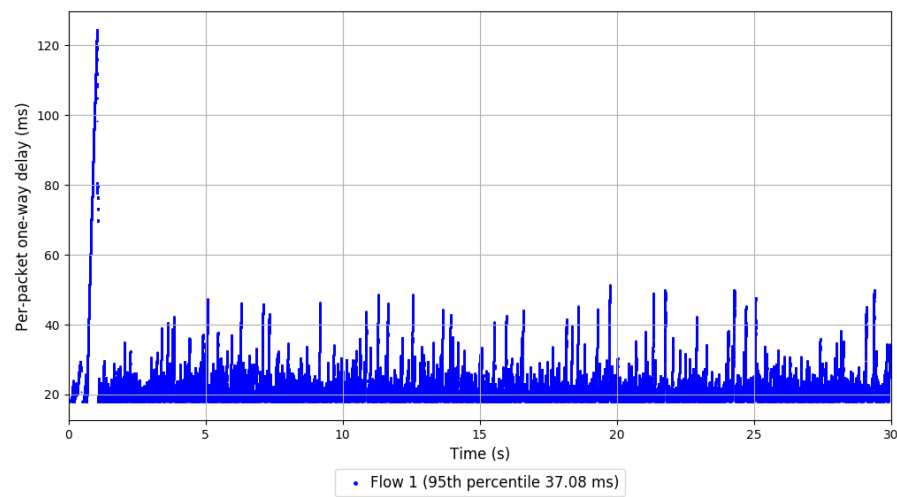
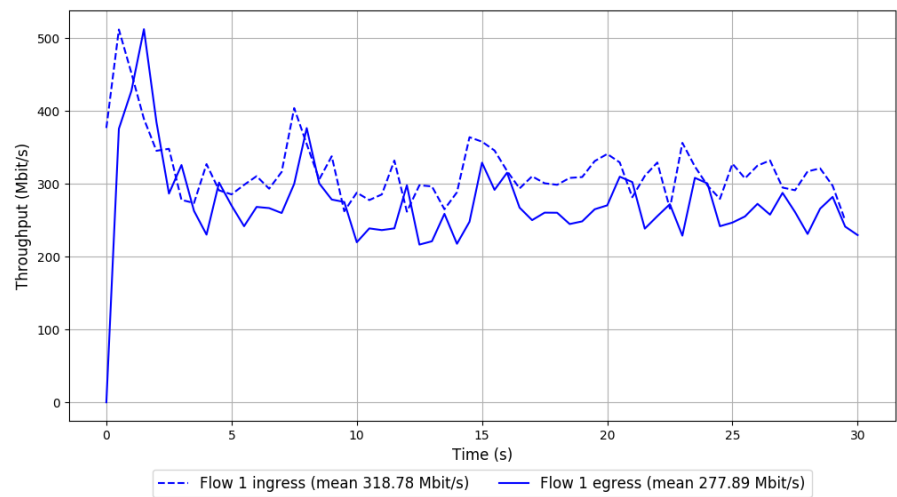
-- Flow 1:

Average throughput: 277.89 Mbit/s

95th percentile per-packet one-way delay: 37.078 ms

Loss rate: 12.80%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-18 08:48:52

End at: 2018-06-18 08:49:22

Local clock offset: 2.724 ms

Remote clock offset: 0.638 ms

# Below is generated by plot.py at 2018-06-18 14:32:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 460.00 Mbit/s

95th percentile per-packet one-way delay: 57.018 ms

Loss rate: 0.00%

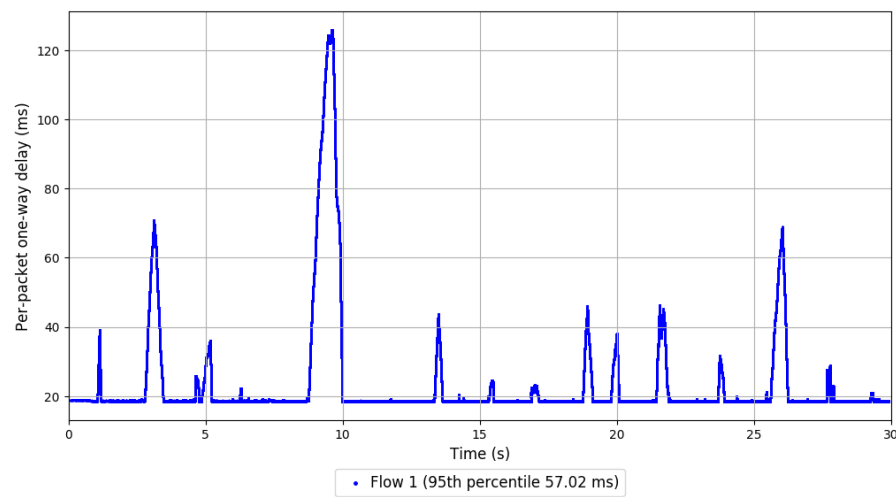
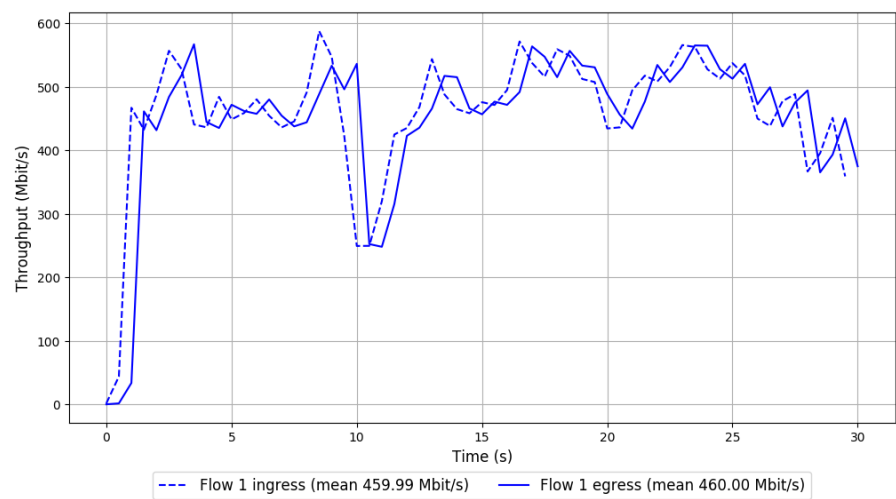
-- Flow 1:

Average throughput: 460.00 Mbit/s

95th percentile per-packet one-way delay: 57.018 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-18 09:13:00

End at: 2018-06-18 09:13:30

Local clock offset: 3.082 ms

Remote clock offset: 4.344 ms

# Below is generated by plot.py at 2018-06-18 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 441.69 Mbit/s

95th percentile per-packet one-way delay: 88.929 ms

Loss rate: 0.00%

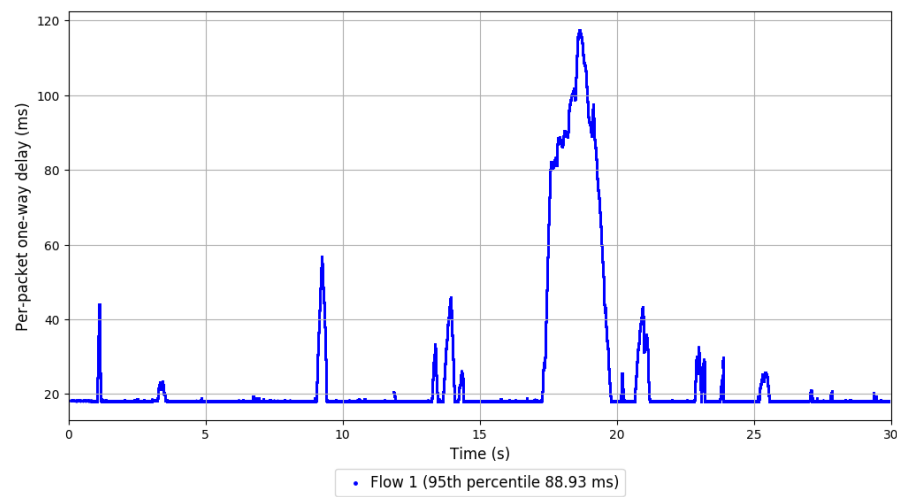
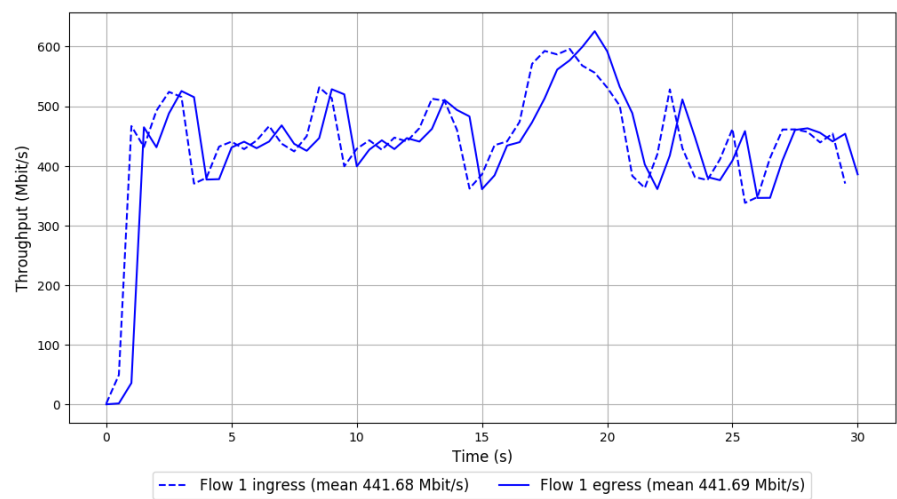
-- Flow 1:

Average throughput: 441.69 Mbit/s

95th percentile per-packet one-way delay: 88.929 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-18 09:37:04

End at: 2018-06-18 09:37:34

Local clock offset: 3.343 ms

Remote clock offset: 5.943 ms

# Below is generated by plot.py at 2018-06-18 14:34:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 453.64 Mbit/s

95th percentile per-packet one-way delay: 29.215 ms

Loss rate: 0.70%

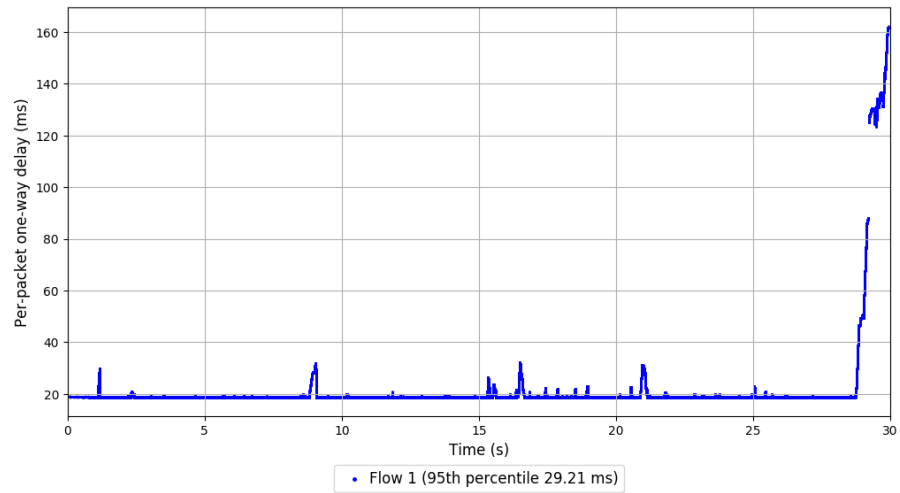
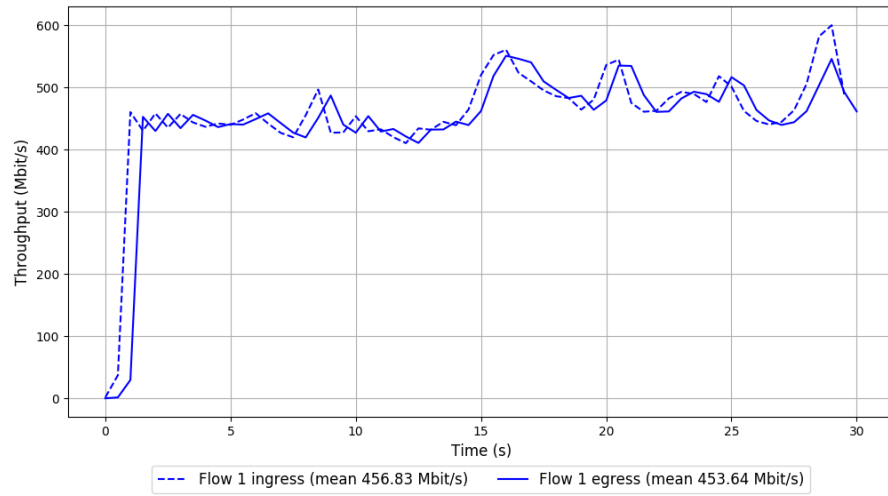
-- Flow 1:

Average throughput: 453.64 Mbit/s

95th percentile per-packet one-way delay: 29.215 ms

Loss rate: 0.70%

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



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-18 10:01:16

End at: 2018-06-18 10:01:46

Local clock offset: 3.42 ms

Remote clock offset: 2.196 ms

# Below is generated by plot.py at 2018-06-18 14:34:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 424.09 Mbit/s

95th percentile per-packet one-way delay: 22.055 ms

Loss rate: 0.00%

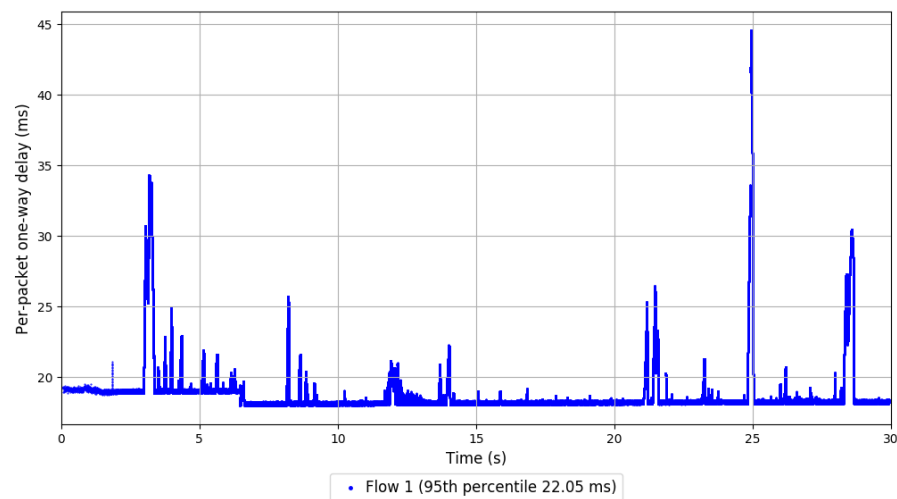
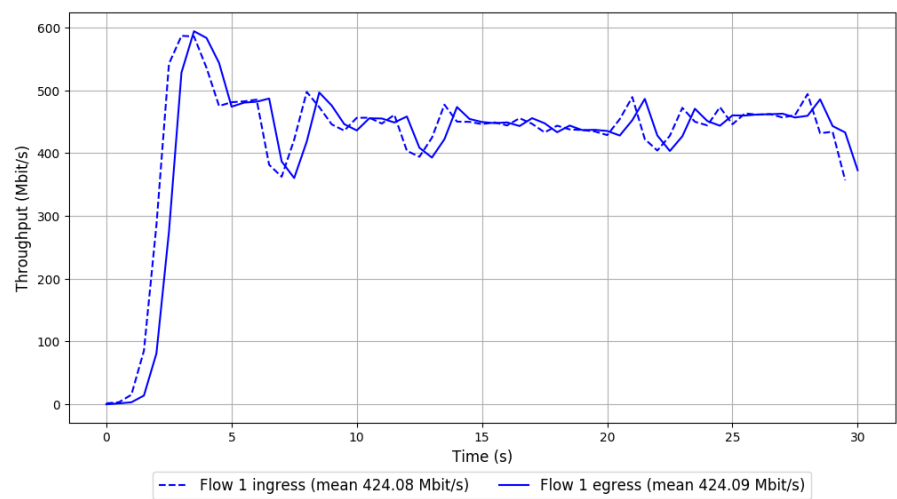
-- Flow 1:

Average throughput: 424.09 Mbit/s

95th percentile per-packet one-way delay: 22.055 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-18 10:25:25

End at: 2018-06-18 10:25:55

Local clock offset: 4.185 ms

Remote clock offset: -1.98 ms

# Below is generated by plot.py at 2018-06-18 14:34:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 437.80 Mbit/s

95th percentile per-packet one-way delay: 21.357 ms

Loss rate: 0.01%

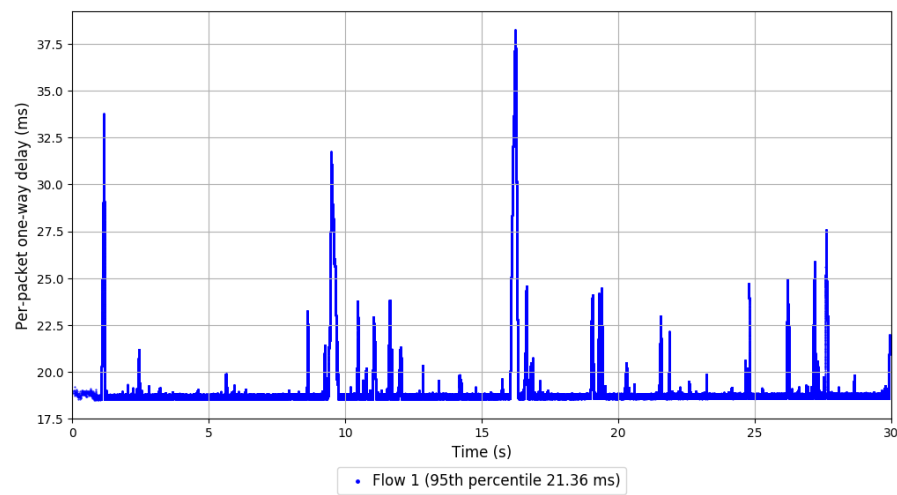
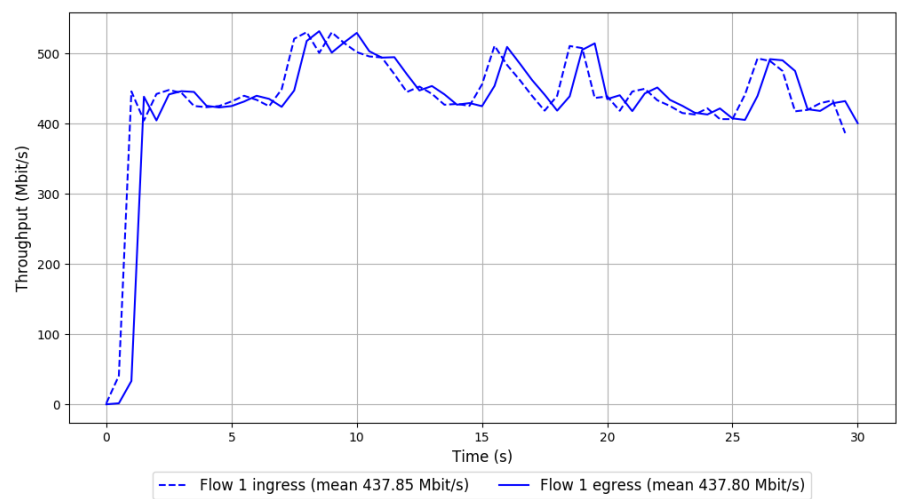
-- Flow 1:

Average throughput: 437.80 Mbit/s

95th percentile per-packet one-way delay: 21.357 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-18 10:49:28

End at: 2018-06-18 10:49:58

Local clock offset: 3.632 ms

Remote clock offset: -1.033 ms

# Below is generated by plot.py at 2018-06-18 14:34:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 431.58 Mbit/s

95th percentile per-packet one-way delay: 21.729 ms

Loss rate: 0.00%

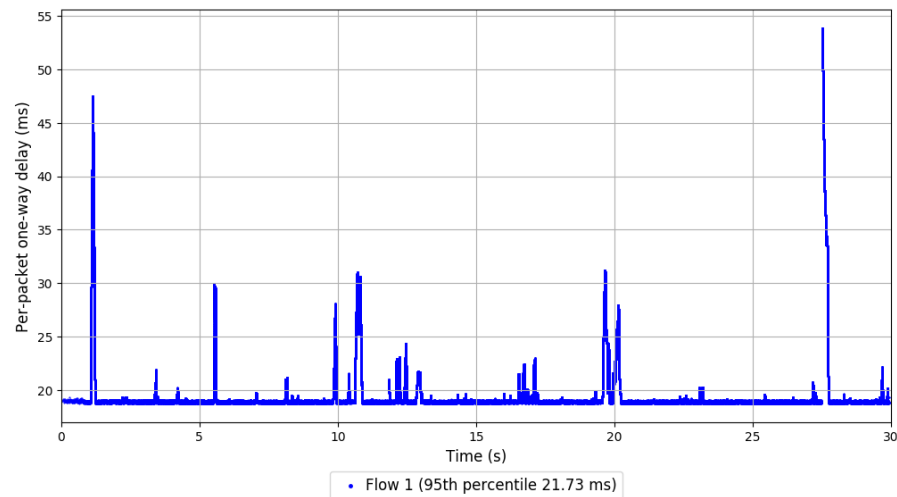
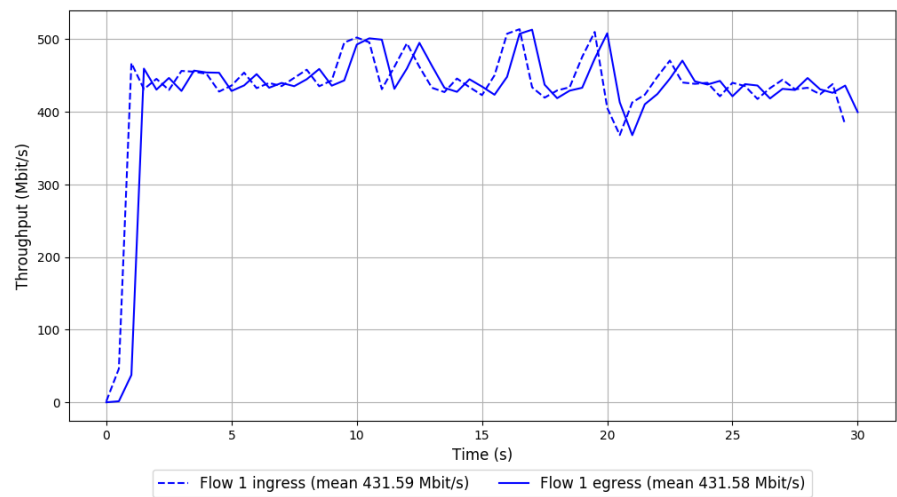
-- Flow 1:

Average throughput: 431.58 Mbit/s

95th percentile per-packet one-way delay: 21.729 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-18 11:13:38

End at: 2018-06-18 11:14:08

Local clock offset: 3.419 ms

Remote clock offset: 2.628 ms

# Below is generated by plot.py at 2018-06-18 14:34:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 444.82 Mbit/s

95th percentile per-packet one-way delay: 88.778 ms

Loss rate: 0.54%

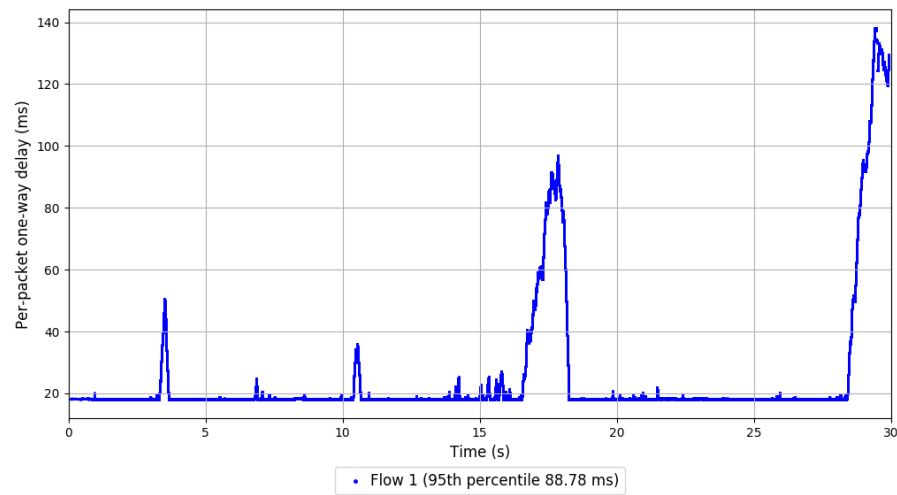
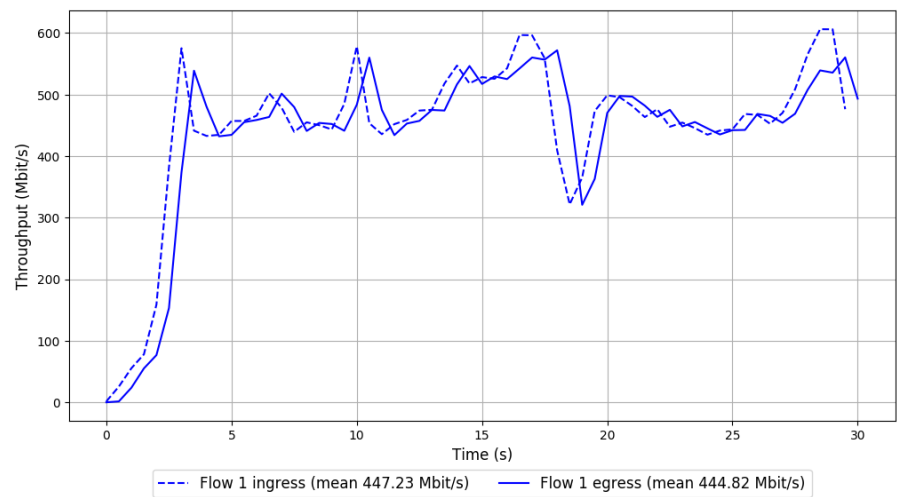
-- Flow 1:

Average throughput: 444.82 Mbit/s

95th percentile per-packet one-way delay: 88.778 ms

Loss rate: 0.54%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-18 11:37:33

End at: 2018-06-18 11:38:03

Local clock offset: 3.479 ms

Remote clock offset: 4.543 ms

# Below is generated by plot.py at 2018-06-18 14:35:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 452.58 Mbit/s

95th percentile per-packet one-way delay: 24.640 ms

Loss rate: 0.01%

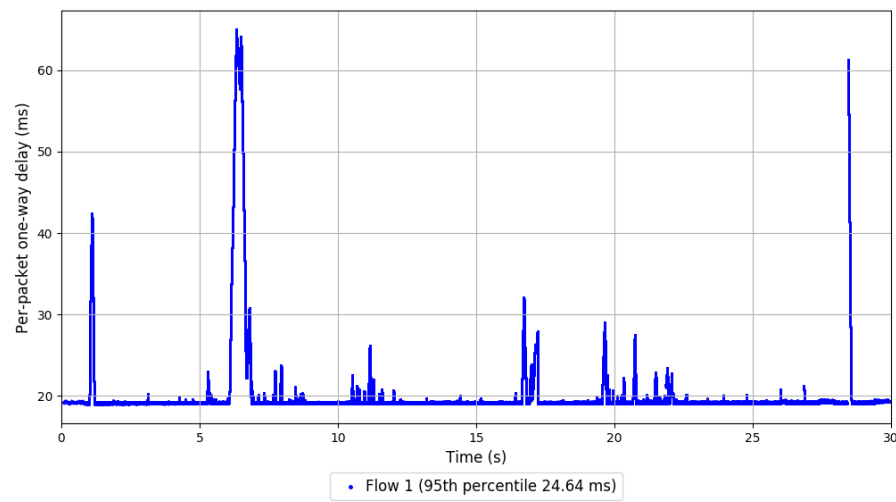
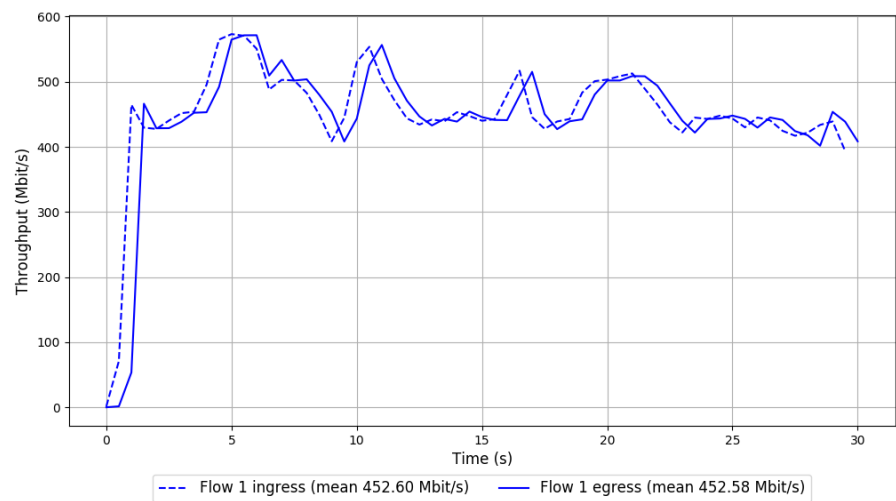
-- Flow 1:

Average throughput: 452.58 Mbit/s

95th percentile per-packet one-way delay: 24.640 ms

Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-18 12:01:17

End at: 2018-06-18 12:01:47

Local clock offset: 3.628 ms

Remote clock offset: 3.507 ms

# Below is generated by plot.py at 2018-06-18 14:35:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 437.19 Mbit/s

95th percentile per-packet one-way delay: 21.679 ms

Loss rate: 0.00%

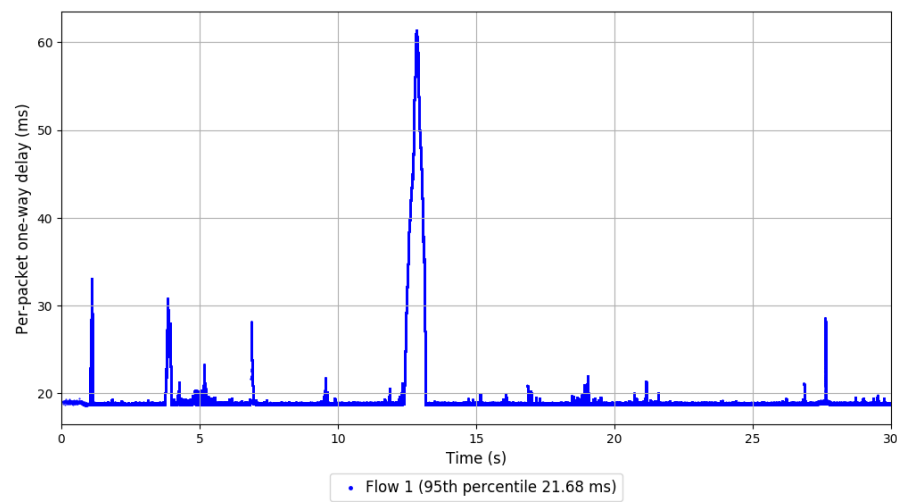
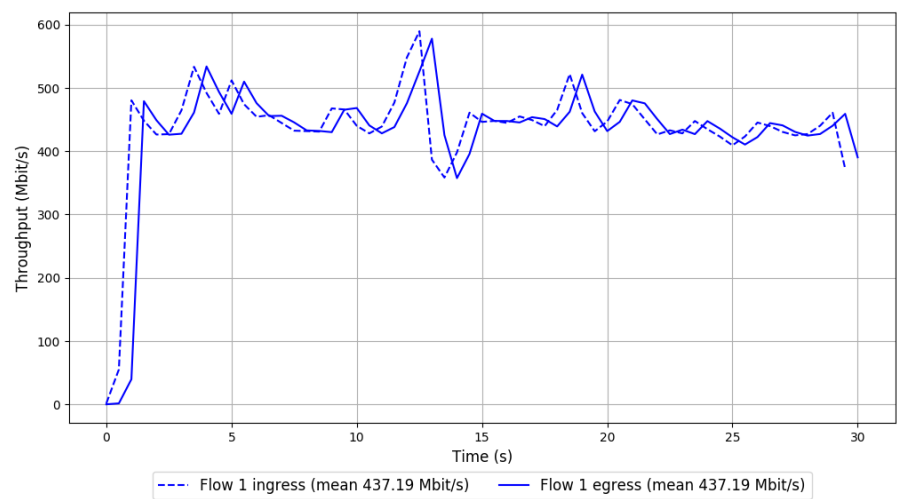
-- Flow 1:

Average throughput: 437.19 Mbit/s

95th percentile per-packet one-way delay: 21.679 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-18 12:25:16

End at: 2018-06-18 12:25:46

Local clock offset: 3.735 ms

Remote clock offset: 2.489 ms

# Below is generated by plot.py at 2018-06-18 14:35:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 436.34 Mbit/s

95th percentile per-packet one-way delay: 19.958 ms

Loss rate: 0.00%

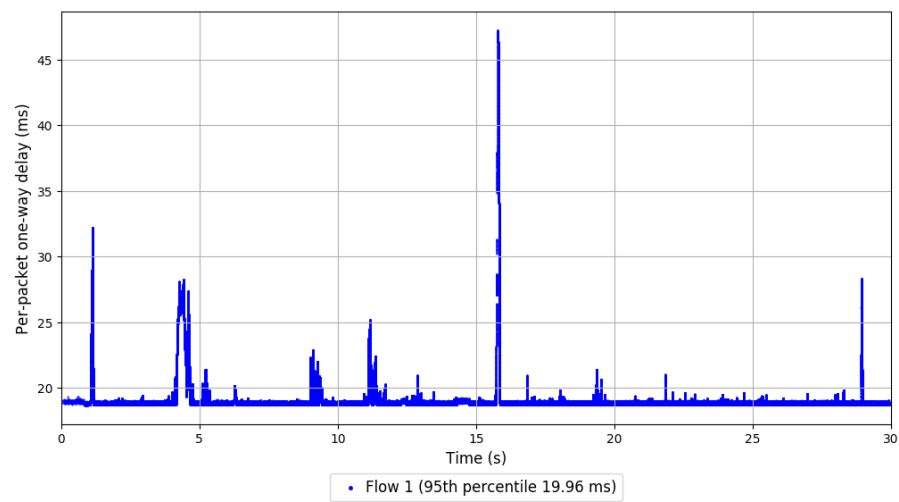
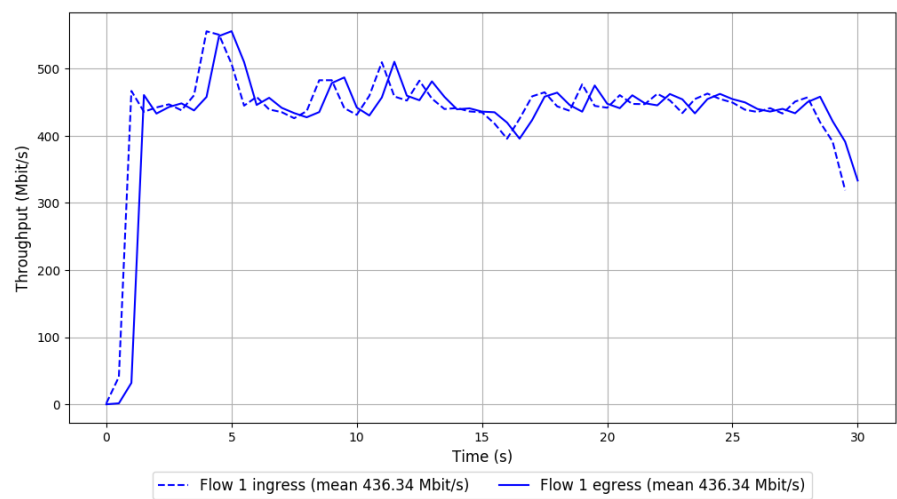
-- Flow 1:

Average throughput: 436.34 Mbit/s

95th percentile per-packet one-way delay: 19.958 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

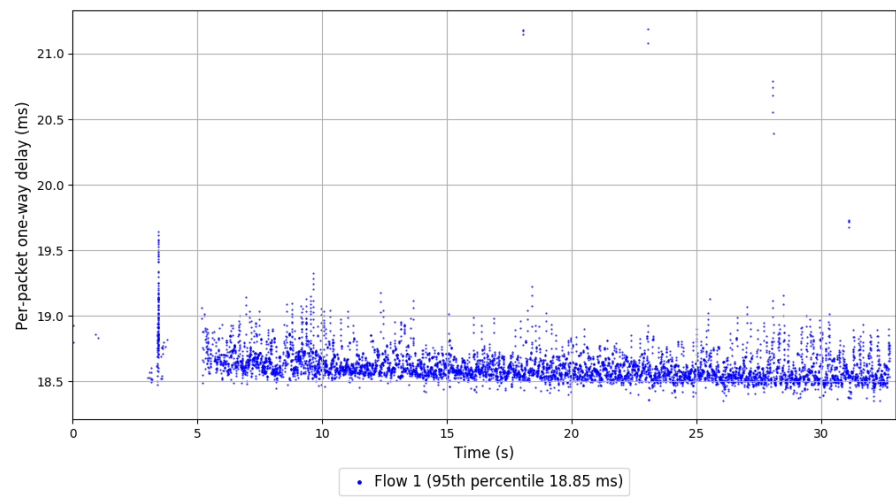
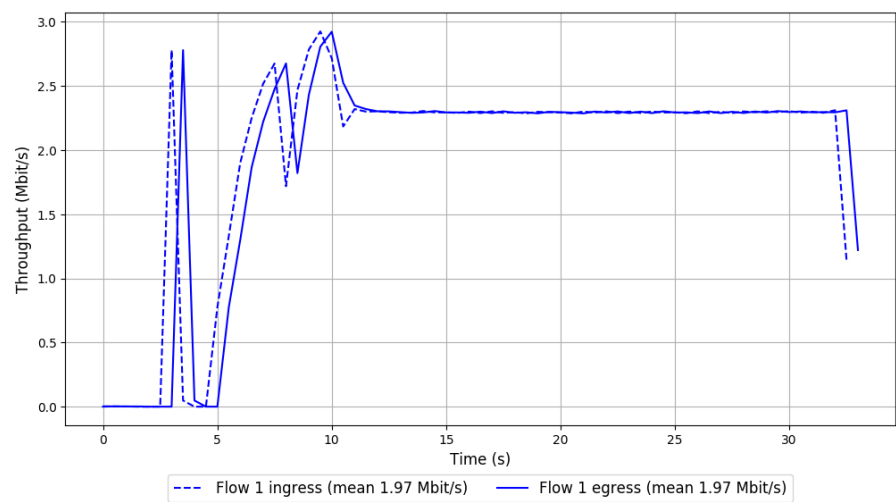


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-18 08:50:30
End at: 2018-06-18 08:51:00
Local clock offset: 2.817 ms
Remote clock offset: 1.165 ms

# Below is generated by plot.py at 2018-06-18 14:35:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 18.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 18.853 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-18 09:14:37

End at: 2018-06-18 09:15:07

Local clock offset: 3.231 ms

Remote clock offset: 4.402 ms

# Below is generated by plot.py at 2018-06-18 14:35:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 18.309 ms

Loss rate: 0.00%

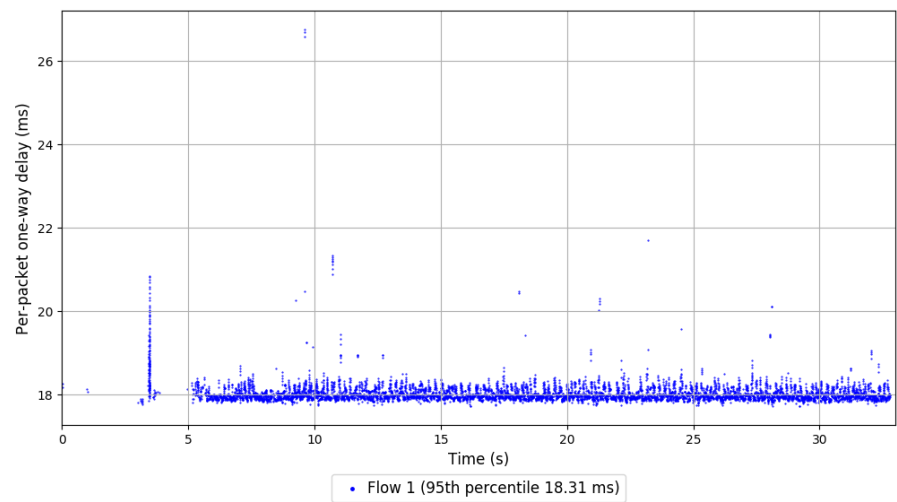
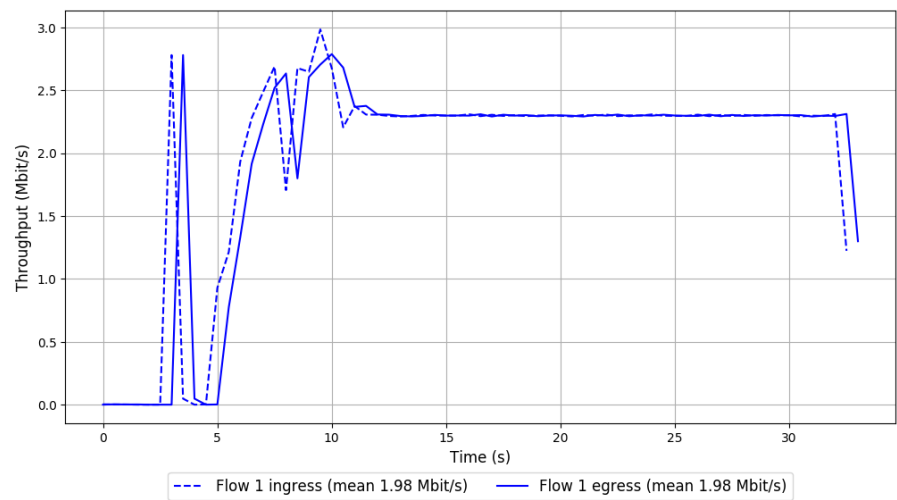
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 18.309 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-18 09:38:42

End at: 2018-06-18 09:39:12

Local clock offset: 3.388 ms

Remote clock offset: 6.081 ms

# Below is generated by plot.py at 2018-06-18 14:35:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 19.017 ms

Loss rate: 0.00%

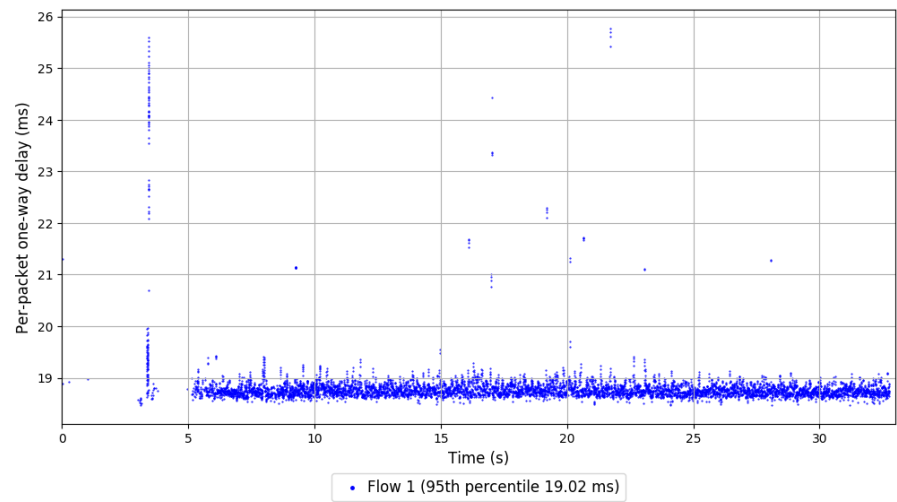
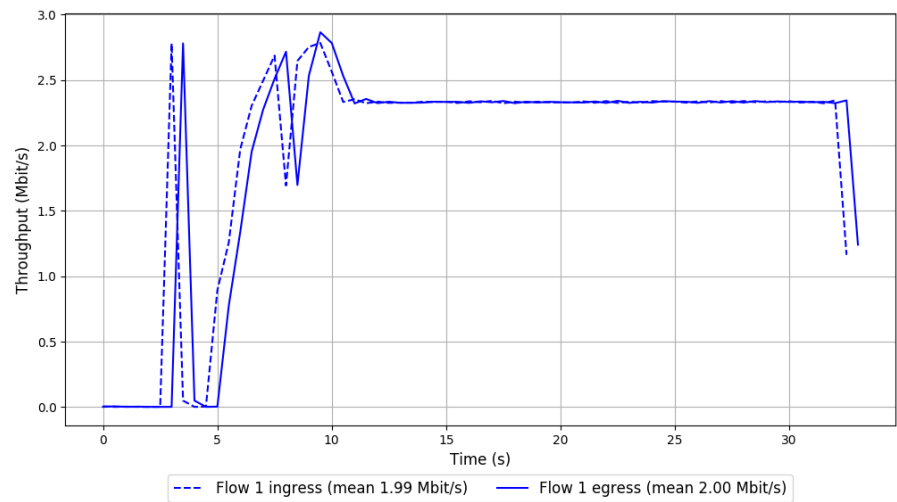
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 19.017 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-18 10:02:52

End at: 2018-06-18 10:03:22

Local clock offset: 3.401 ms

Remote clock offset: 1.671 ms

# Below is generated by plot.py at 2018-06-18 14:35:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.441 ms

Loss rate: 0.00%

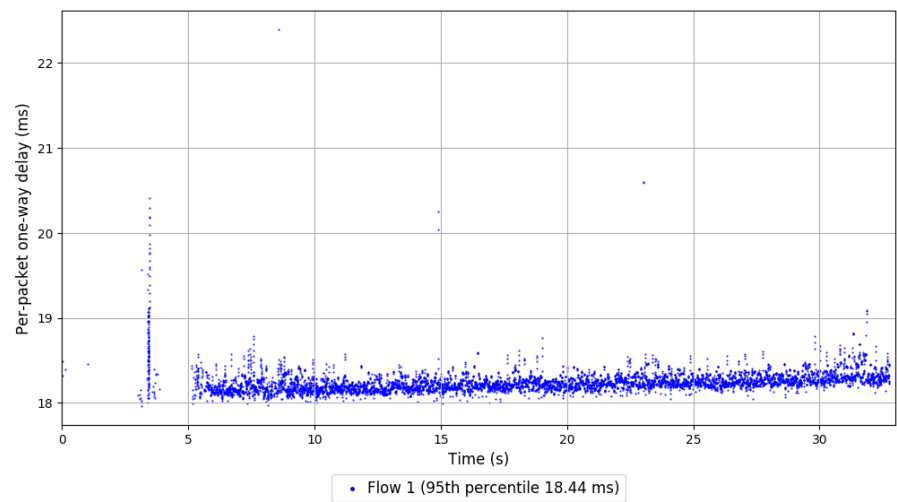
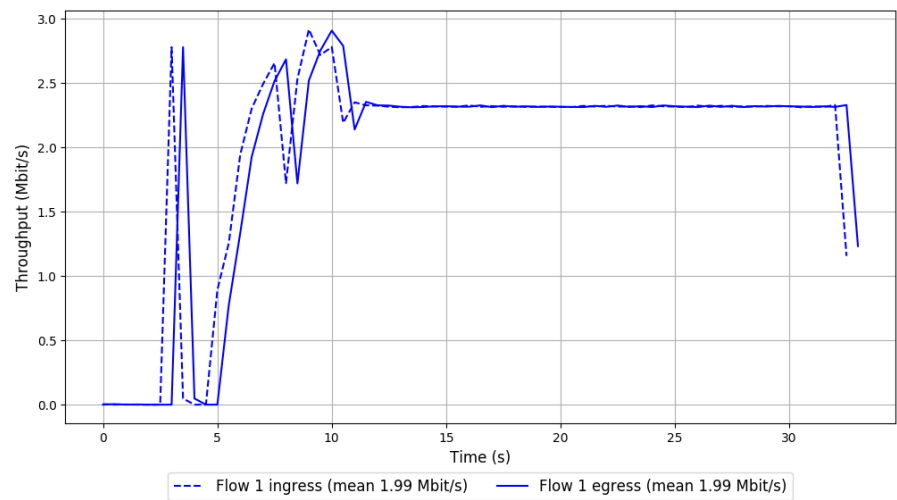
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.441 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

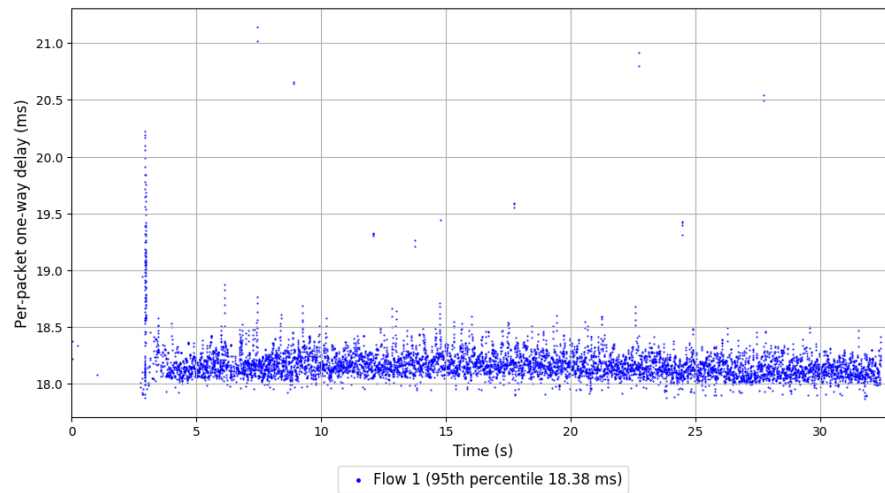
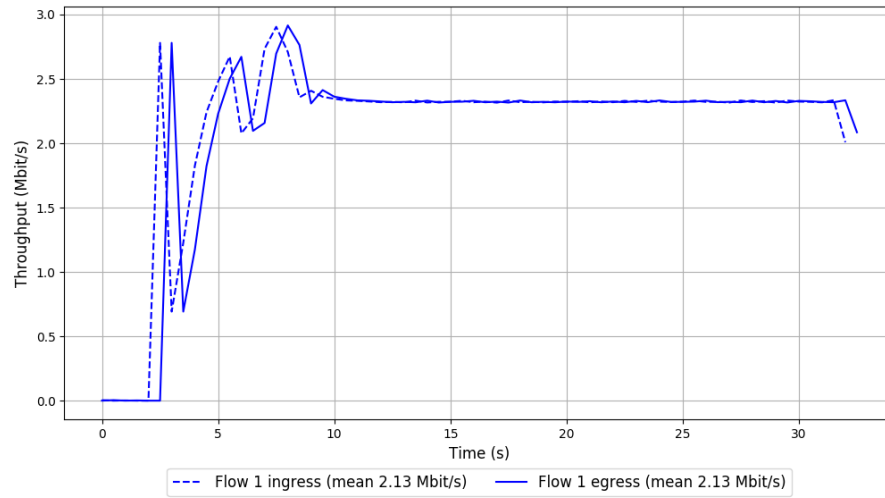


Run 5: Statistics of WebRTC media

Start at: 2018-06-18 10:27:02  
End at: 2018-06-18 10:27:32  
Local clock offset: 4.111 ms  
Remote clock offset: -2.071 ms

# Below is generated by plot.py at 2018-06-18 14:35:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 18.378 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 18.378 ms  
Loss rate: 0.00%

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

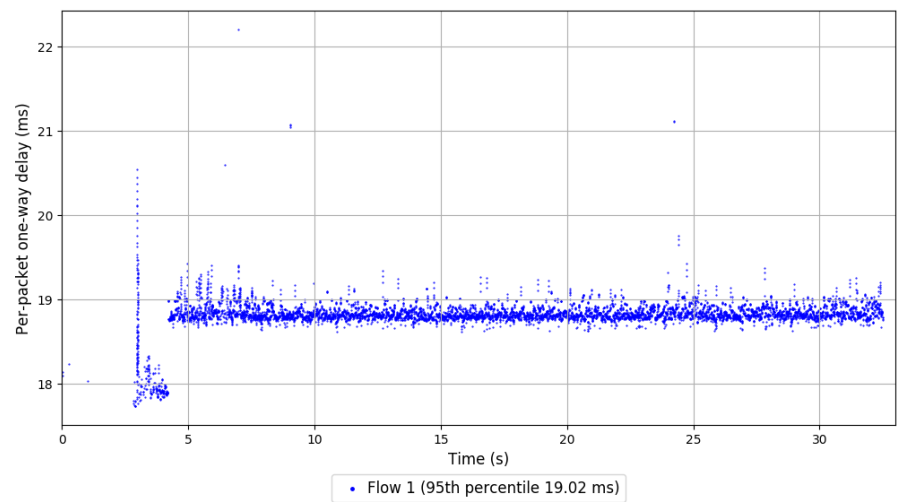
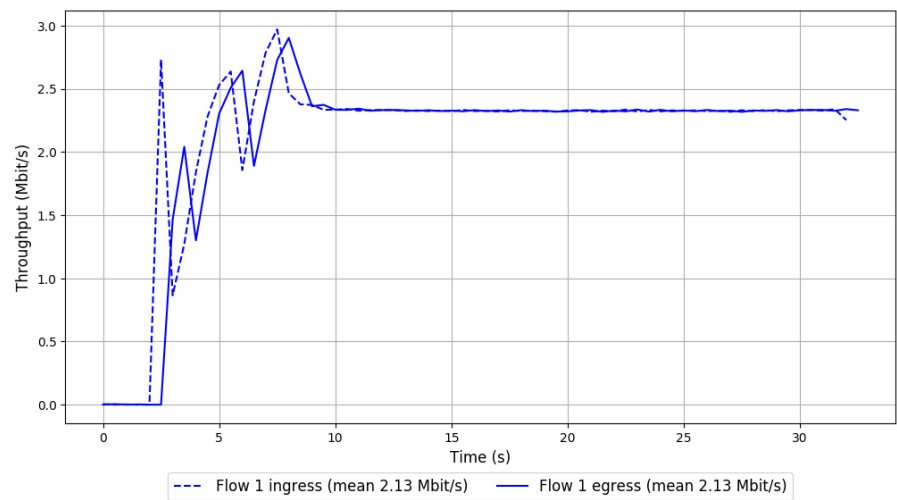


Run 6: Statistics of WebRTC media

Start at: 2018-06-18 10:51:06  
End at: 2018-06-18 10:51:36  
Local clock offset: 3.614 ms  
Remote clock offset: -1.126 ms

# Below is generated by plot.py at 2018-06-18 14:35:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 19.021 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 19.021 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-18 11:15:15

End at: 2018-06-18 11:15:45

Local clock offset: 3.511 ms

Remote clock offset: 2.948 ms

# Below is generated by plot.py at 2018-06-18 14:35:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 18.752 ms

Loss rate: 0.00%

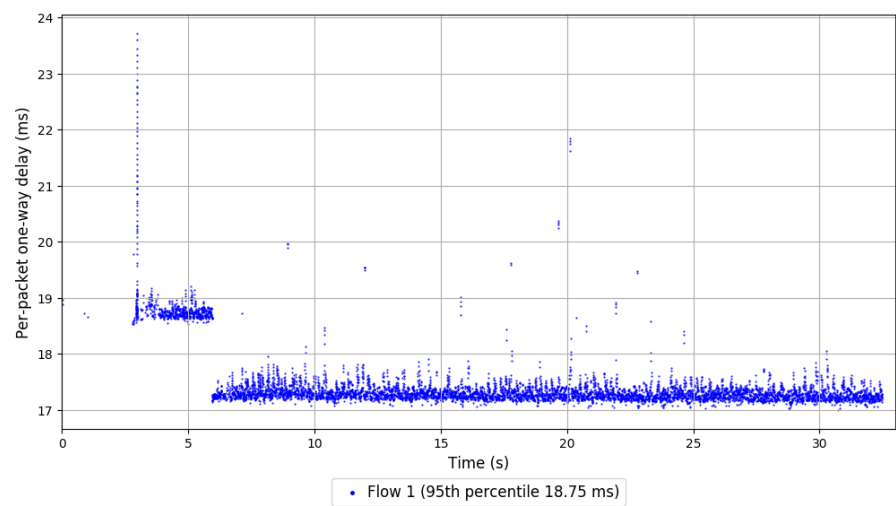
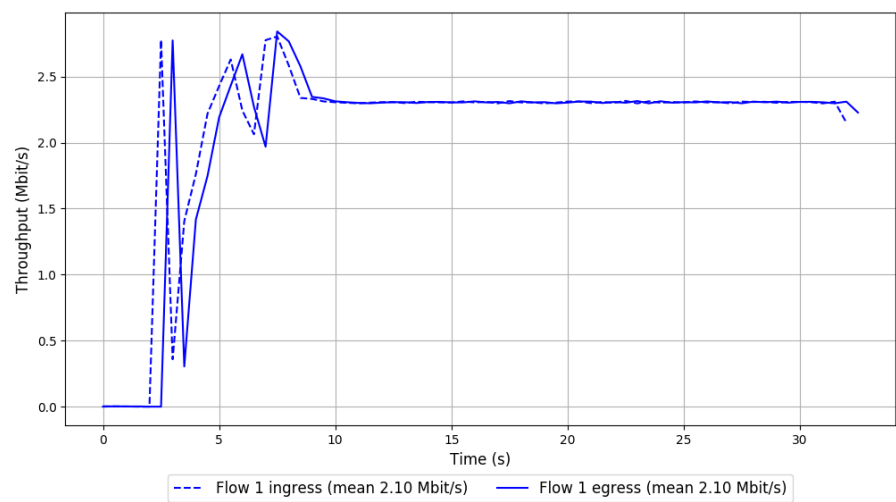
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 18.752 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-18 11:39:11

End at: 2018-06-18 11:39:41

Local clock offset: 3.505 ms

Remote clock offset: 4.246 ms

# Below is generated by plot.py at 2018-06-18 14:35:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 19.174 ms

Loss rate: 0.00%

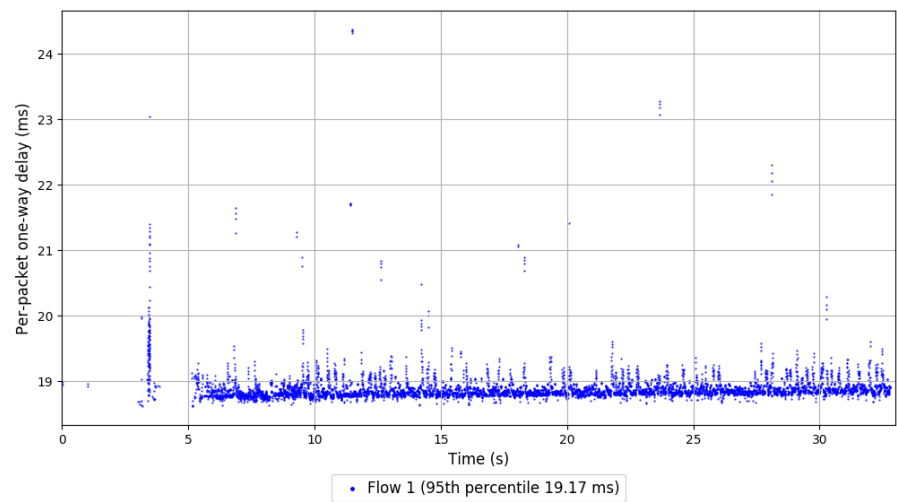
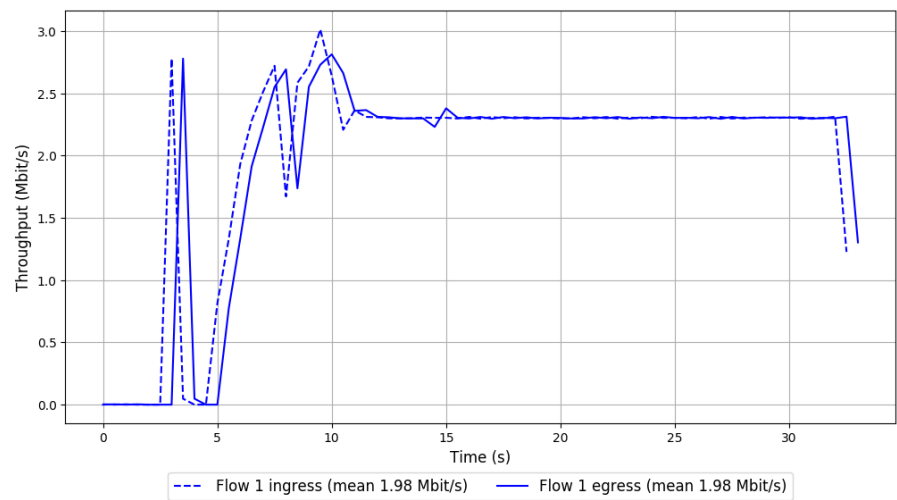
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 19.174 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-18 12:02:53

End at: 2018-06-18 12:03:23

Local clock offset: 3.734 ms

Remote clock offset: 3.538 ms

# Below is generated by plot.py at 2018-06-18 14:35:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 18.970 ms

Loss rate: 0.00%

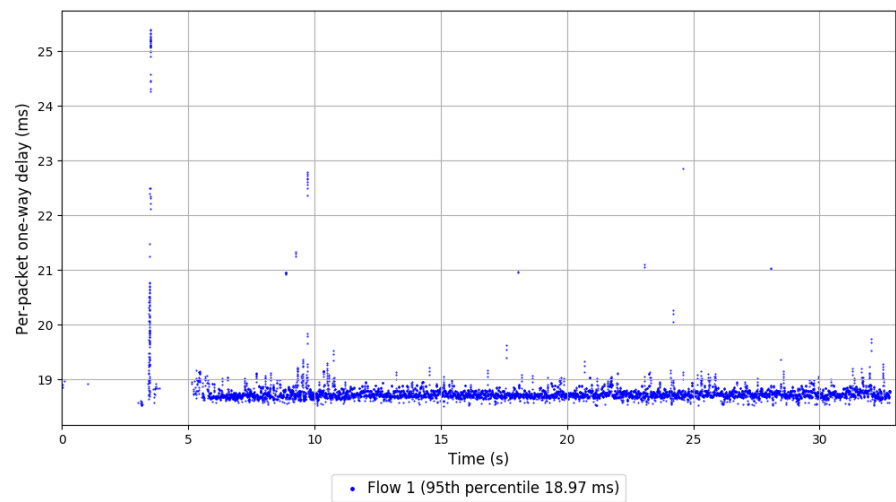
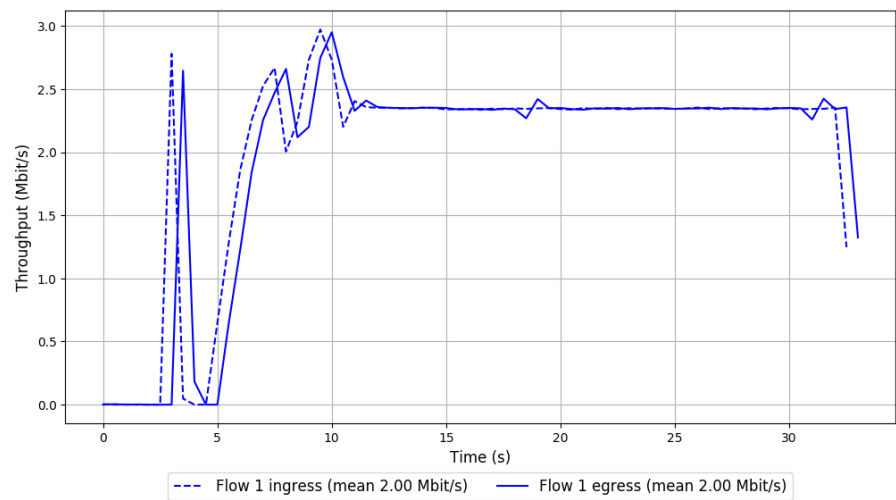
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 18.970 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-18 12:26:53

End at: 2018-06-18 12:27:23

Local clock offset: 3.637 ms

Remote clock offset: 2.525 ms

# Below is generated by plot.py at 2018-06-18 14:35:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 19.070 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 19.070 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

