

## Pantheon Report

Generated at 2018-05-26 08:55:51 (UTC).

Data path: GCE London Ethernet (*local*) → GCE Iowa Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

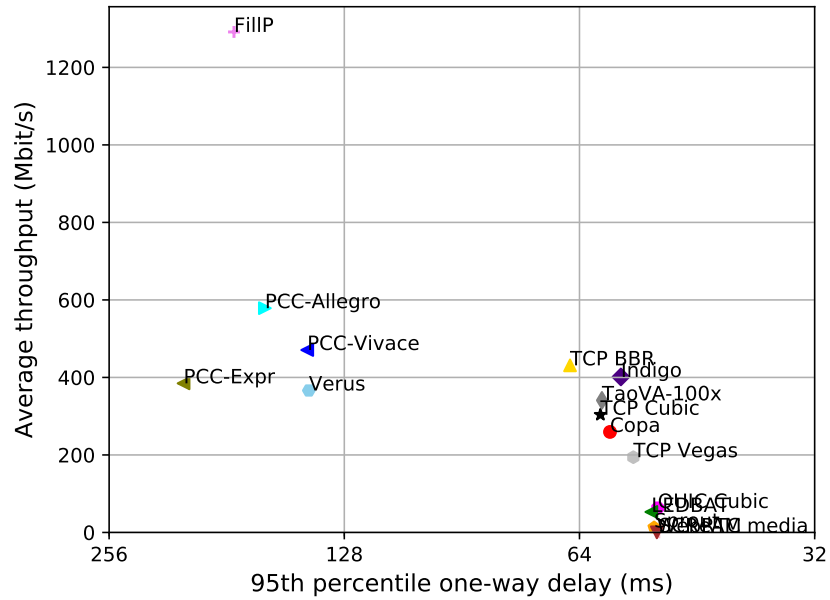
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

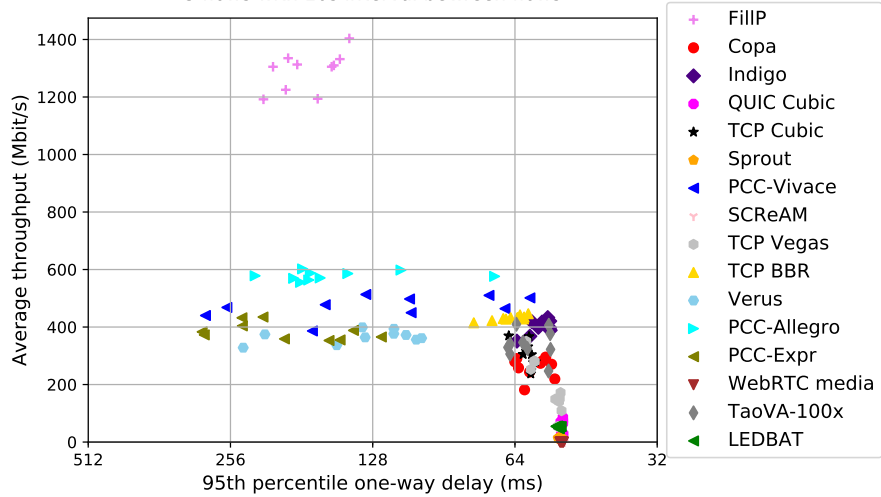
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE London to GCE Iowa, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London to GCE Iowa, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows



| scheme       | # runs | mean avg tput (Mbit/s) |        |        | mean 95th-%ile delay (ms) |        |        | mean loss rate (%) |        |        |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
|              |        | flow 1                 | flow 2 | flow 3 | flow 1                    | flow 2 | flow 3 | flow 1             | flow 2 | flow 3 |
| TCP BBR      | 10     | 219.64                 | 215.44 | 204.78 | 64.63                     | 65.75  | 67.59  | 0.02               | 0.03   | 0.11   |
| Copa         | 10     | 134.98                 | 122.10 | 129.67 | 58.97                     | 58.02  | 58.99  | 0.00               | 0.03   | 0.00   |
| TCP Cubic    | 10     | 164.92                 | 132.32 | 152.46 | 59.10                     | 58.83  | 60.54  | 0.02               | 0.03   | 0.05   |
| FillP        | 10     | 706.54                 | 607.46 | 544.03 | 164.84                    | 168.74 | 163.15 | 4.67               | 5.03   | 5.00   |
| Indigo       | 10     | 210.78                 | 202.68 | 173.22 | 55.83                     | 57.32  | 57.45  | 0.01               | 0.02   | 0.02   |
| LEDBAT       | 10     | 34.24                  | 22.52  | 11.19  | 51.85                     | 51.71  | 51.52  | 0.00               | 0.00   | 0.00   |
| PCC-Allegro  | 10     | 528.17                 | 55.91  | 40.72  | 163.65                    | 146.36 | 134.74 | 2.10               | 1.48   | 1.98   |
| PCC-Expr     | 10     | 235.59                 | 188.86 | 71.25  | 206.22                    | 167.21 | 92.60  | 3.13               | 2.61   | 0.98   |
| QUIC Cubic   | 10     | 37.21                  | 30.16  | 18.29  | 50.57                     | 50.64  | 50.55  | 0.00               | 0.00   | 0.00   |
| SCReAM       | 10     | 0.22                   | 0.22   | 0.22   | 50.58                     | 50.35  | 50.35  | 0.01               | 0.00   | 0.00   |
| Sprout       | 10     | 6.76                   | 6.21   | 6.37   | 51.34                     | 51.38  | 51.28  | 0.00               | 0.00   | 0.00   |
| TaoVA-100x   | 10     | 180.92                 | 172.02 | 136.42 | 56.84                     | 59.58  | 64.54  | 0.02               | 0.01   | 0.03   |
| TCP Vegas    | 10     | 98.24                  | 109.41 | 69.47  | 54.50                     | 53.96  | 53.38  | 0.01               | 0.02   | 0.03   |
| Verus        | 10     | 219.36                 | 164.19 | 116.60 | 130.08                    | 141.03 | 161.55 | 0.46               | 0.59   | 0.46   |
| PCC-Vivace   | 10     | 277.51                 | 232.40 | 117.29 | 146.02                    | 121.16 | 64.42  | 0.72               | 1.11   | 0.01   |
| WebRTC media | 10     | 0.05                   | 0.05   | 0.05   | 50.80                     | 50.75  | 50.97  | 0.00               | 0.00   | 0.00   |

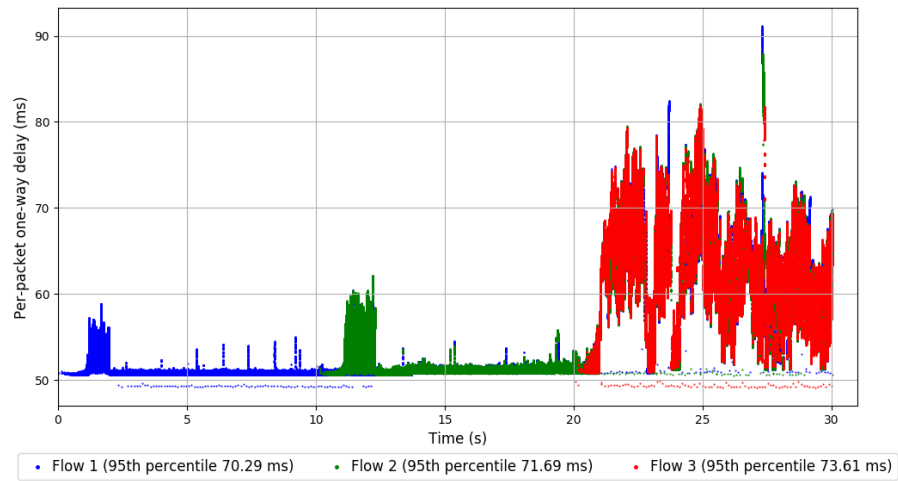
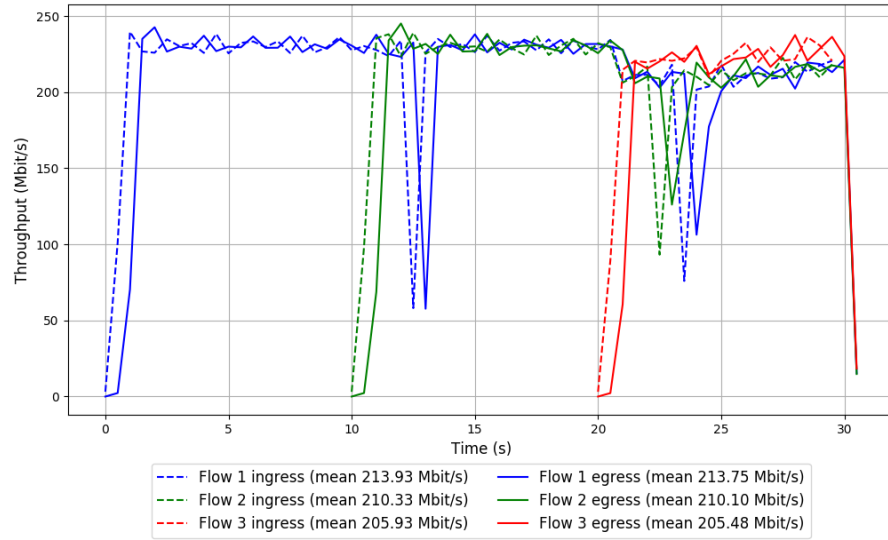
Run 1: Statistics of TCP BBR

Start at: 2018-05-26 02:46:38  
End at: 2018-05-26 02:47:08  
Local clock offset: -0.619 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-05-26 06:54:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 422.16 Mbit/s  
95th percentile per-packet one-way delay: 71.566 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 213.75 Mbit/s  
95th percentile per-packet one-way delay: 70.290 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 210.10 Mbit/s  
95th percentile per-packet one-way delay: 71.687 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 205.48 Mbit/s  
95th percentile per-packet one-way delay: 73.612 ms  
Loss rate: 0.15%



# Run 1: Report of TCP BBR — Data Link

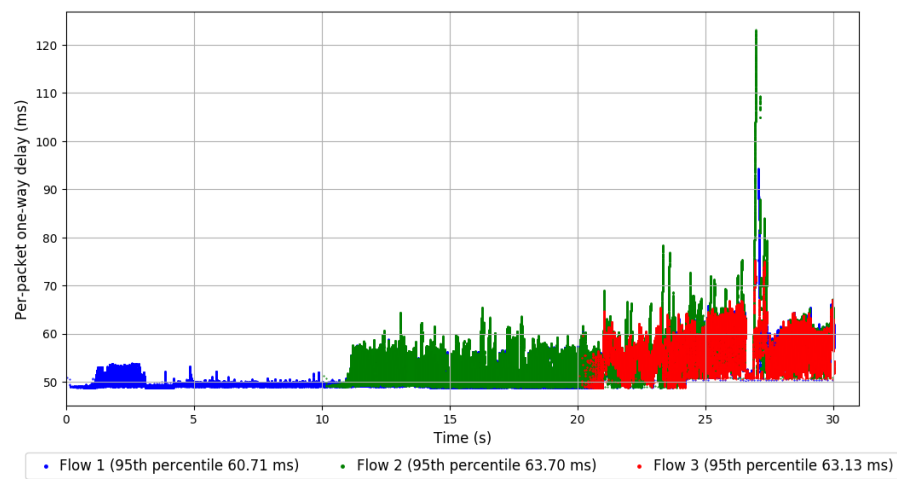
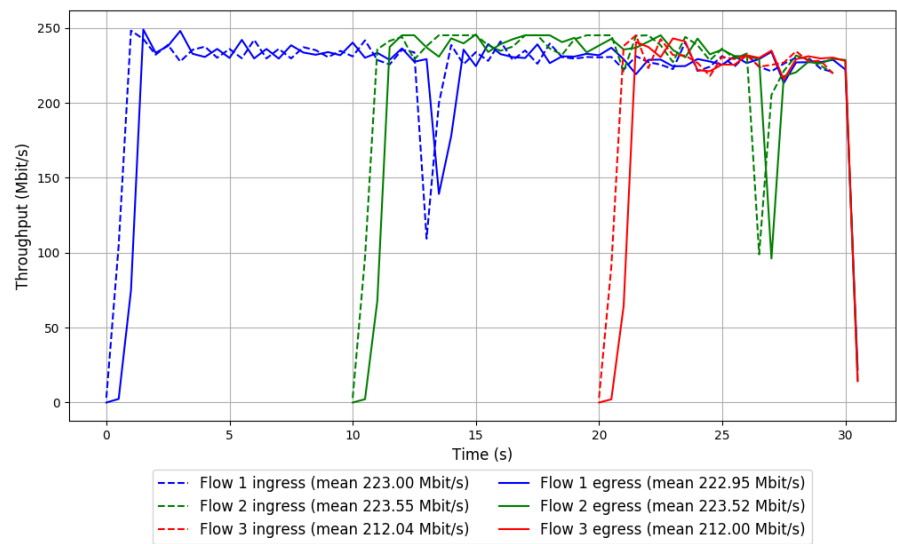


Run 2: Statistics of TCP BBR

Start at: 2018-05-26 03:09:27  
End at: 2018-05-26 03:09:57  
Local clock offset: -0.261 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-05-26 06:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 442.32 Mbit/s  
95th percentile per-packet one-way delay: 62.444 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 222.95 Mbit/s  
95th percentile per-packet one-way delay: 60.708 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 223.52 Mbit/s  
95th percentile per-packet one-way delay: 63.698 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 212.00 Mbit/s  
95th percentile per-packet one-way delay: 63.133 ms  
Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link

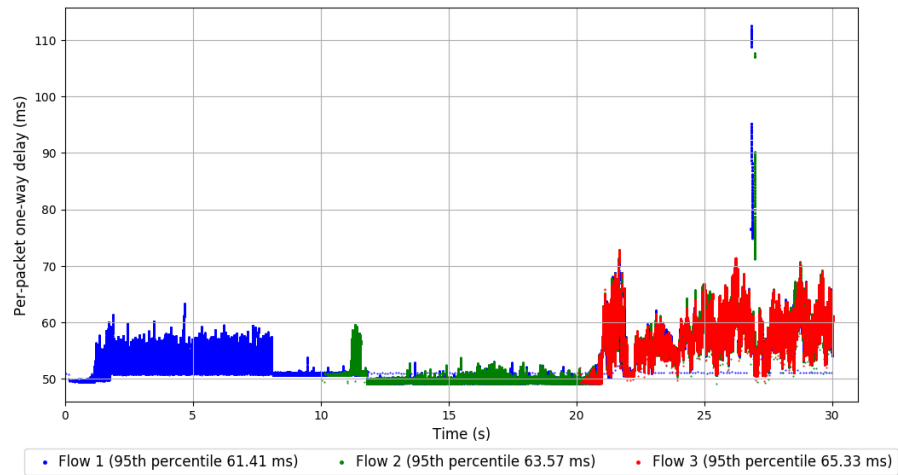
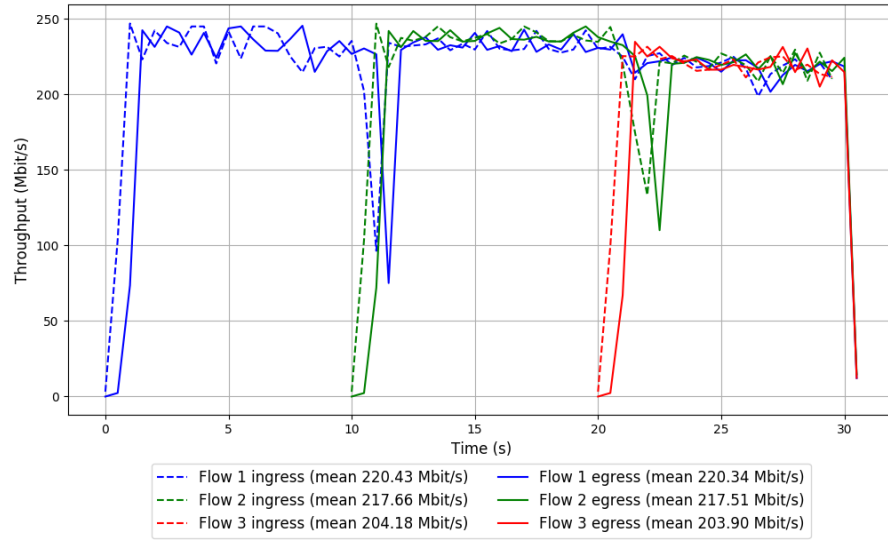


Run 3: Statistics of TCP BBR

Start at: 2018-05-26 03:32:19  
End at: 2018-05-26 03:32:49  
Local clock offset: -0.631 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-05-26 06:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 433.13 Mbit/s  
95th percentile per-packet one-way delay: 63.247 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 220.34 Mbit/s  
95th percentile per-packet one-way delay: 61.414 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 217.51 Mbit/s  
95th percentile per-packet one-way delay: 63.570 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 203.90 Mbit/s  
95th percentile per-packet one-way delay: 65.326 ms  
Loss rate: 0.14%

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

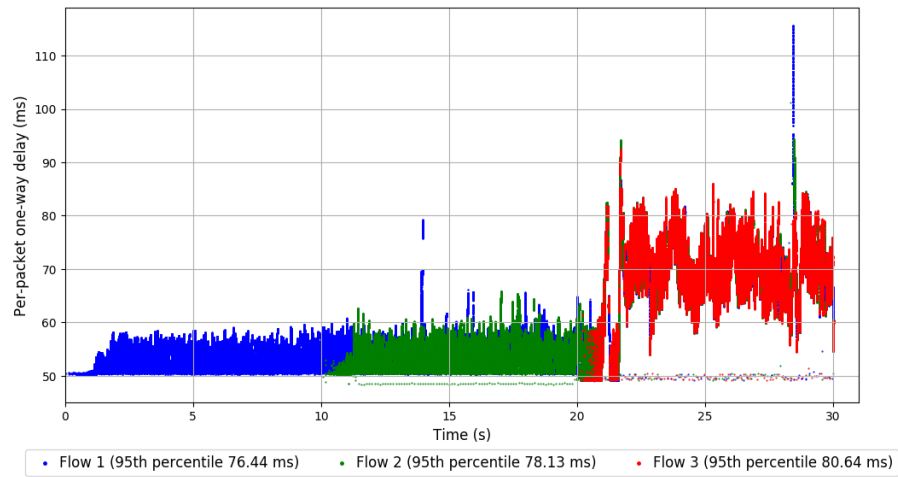
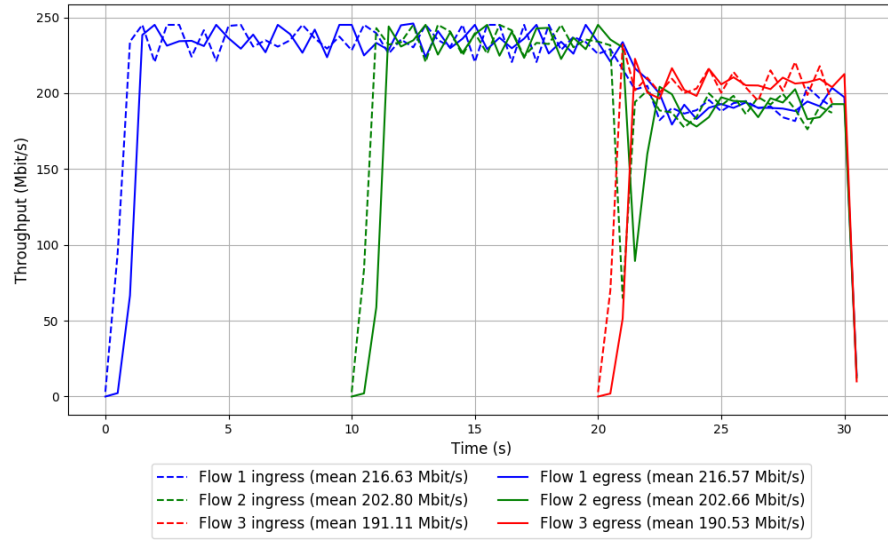


Run 4: Statistics of TCP BBR

Start at: 2018-05-26 03:55:21  
End at: 2018-05-26 03:55:51  
Local clock offset: 0.205 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-05-26 06:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 414.84 Mbit/s  
95th percentile per-packet one-way delay: 78.226 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 216.57 Mbit/s  
95th percentile per-packet one-way delay: 76.441 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 202.66 Mbit/s  
95th percentile per-packet one-way delay: 78.134 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 190.53 Mbit/s  
95th percentile per-packet one-way delay: 80.644 ms  
Loss rate: 0.31%

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



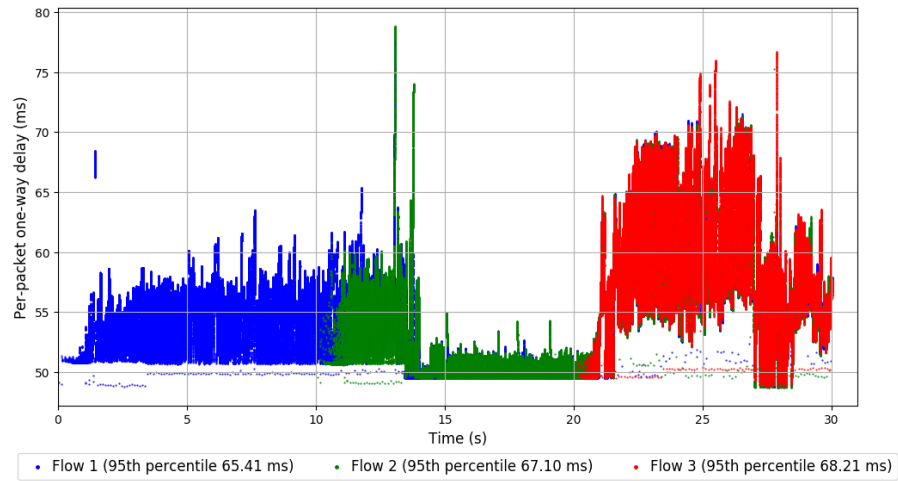
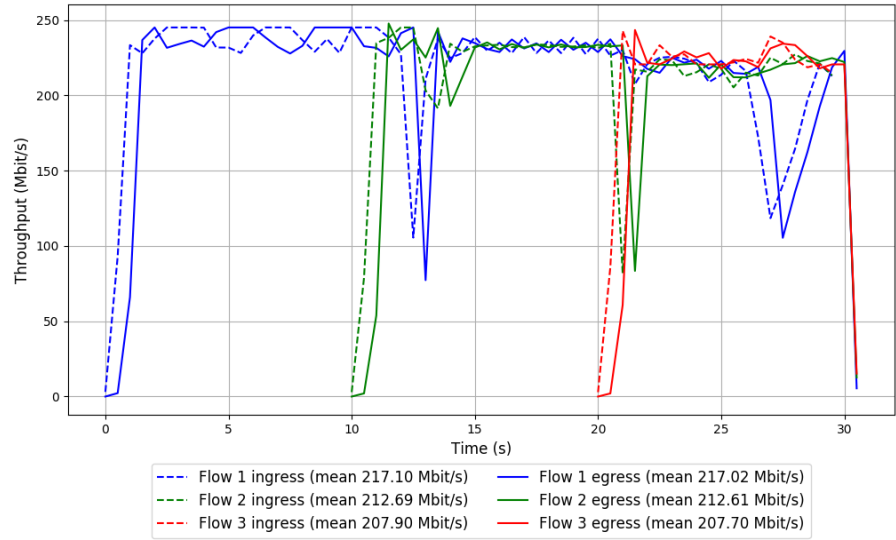
Run 5: Statistics of TCP BBR

Start at: 2018-05-26 04:18:18  
End at: 2018-05-26 04:18:48  
Local clock offset: -0.181 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-05-26 06:54:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 427.59 Mbit/s  
95th percentile per-packet one-way delay: 66.886 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 217.02 Mbit/s  
95th percentile per-packet one-way delay: 65.405 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 212.61 Mbit/s  
95th percentile per-packet one-way delay: 67.098 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 207.70 Mbit/s  
95th percentile per-packet one-way delay: 68.214 ms  
Loss rate: 0.09%



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



Run 6: Statistics of TCP BBR

Start at: 2018-05-26 04:41:12

End at: 2018-05-26 04:41:42

Local clock offset: -0.162 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-05-26 06:54:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 432.59 Mbit/s

95th percentile per-packet one-way delay: 65.374 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 217.77 Mbit/s

95th percentile per-packet one-way delay: 65.368 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 219.47 Mbit/s

95th percentile per-packet one-way delay: 64.772 ms

Loss rate: 0.03%

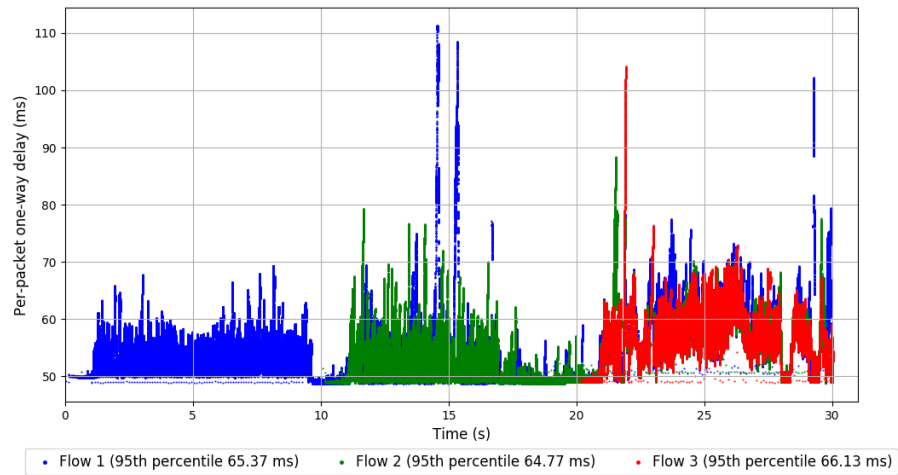
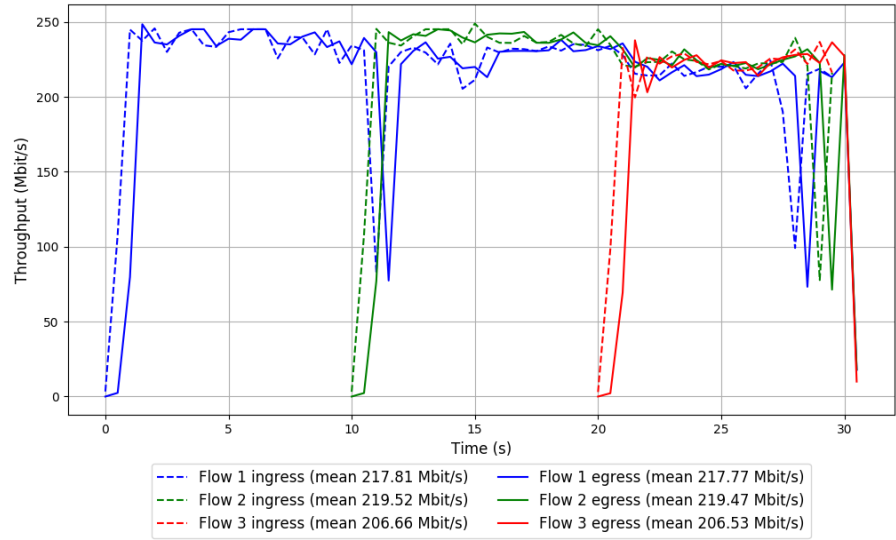
-- Flow 3:

Average throughput: 206.53 Mbit/s

95th percentile per-packet one-way delay: 66.128 ms

Loss rate: 0.07%

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



Run 7: Statistics of TCP BBR

Start at: 2018-05-26 05:04:23

End at: 2018-05-26 05:04:53

Local clock offset: 0.148 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-05-26 06:54:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 446.44 Mbit/s

95th percentile per-packet one-way delay: 59.979 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 228.32 Mbit/s

95th percentile per-packet one-way delay: 59.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 221.36 Mbit/s

95th percentile per-packet one-way delay: 58.287 ms

Loss rate: 0.04%

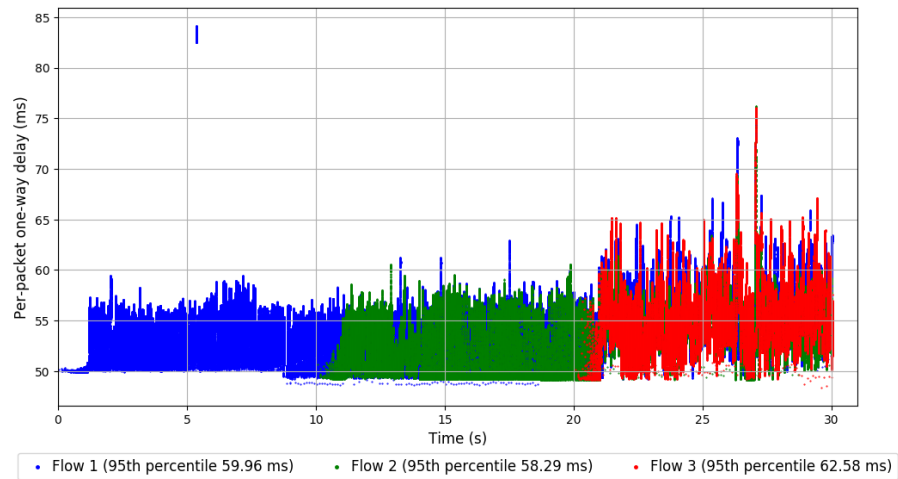
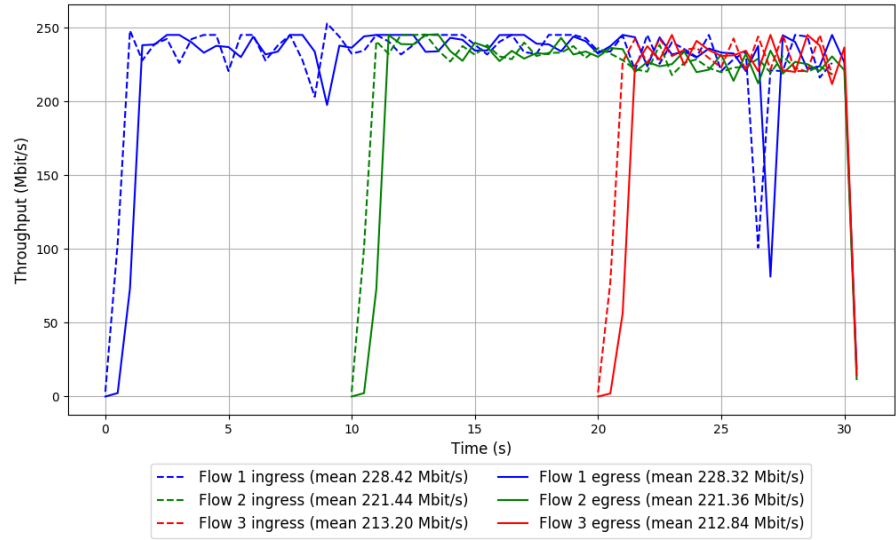
-- Flow 3:

Average throughput: 212.84 Mbit/s

95th percentile per-packet one-way delay: 62.577 ms

Loss rate: 0.17%

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



Run 8: Statistics of TCP BBR

Start at: 2018-05-26 05:27:22

End at: 2018-05-26 05:27:52

Local clock offset: -0.189 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-26 06:54:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 429.68 Mbit/s

95th percentile per-packet one-way delay: 67.759 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 221.42 Mbit/s

95th percentile per-packet one-way delay: 66.123 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 212.07 Mbit/s

95th percentile per-packet one-way delay: 67.815 ms

Loss rate: 0.03%

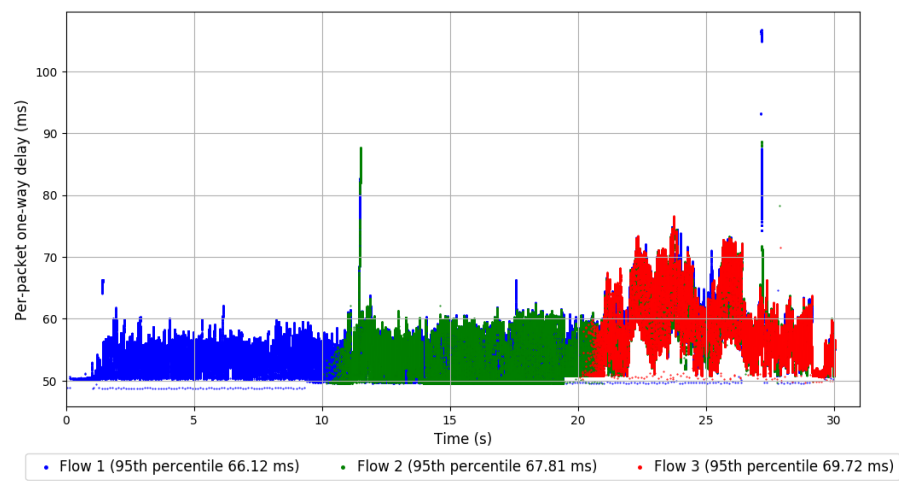
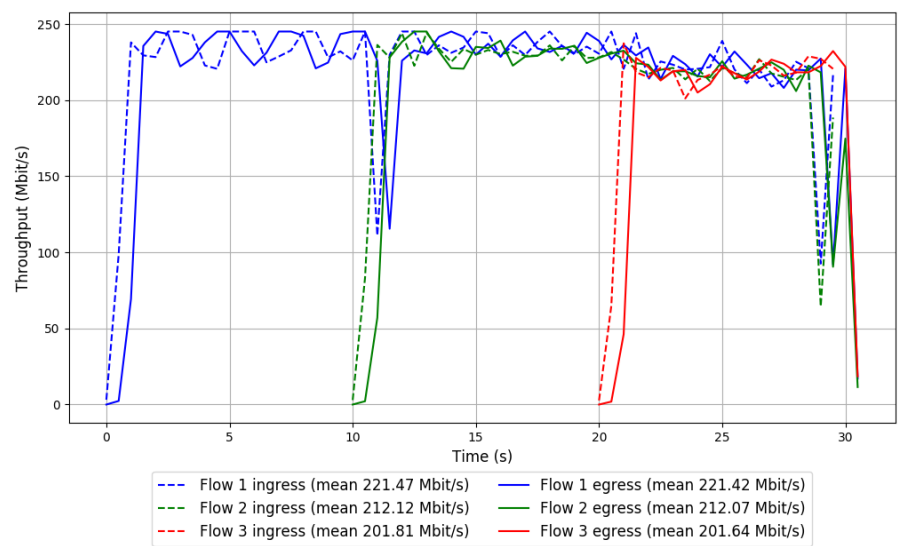
-- Flow 3:

Average throughput: 201.64 Mbit/s

95th percentile per-packet one-way delay: 69.723 ms

Loss rate: 0.09%

Run 8: Report of TCP BBR — Data Link



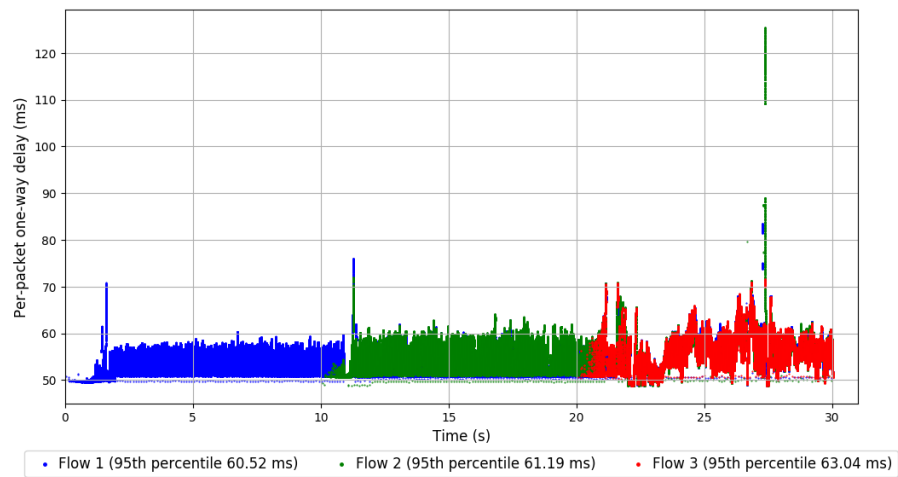
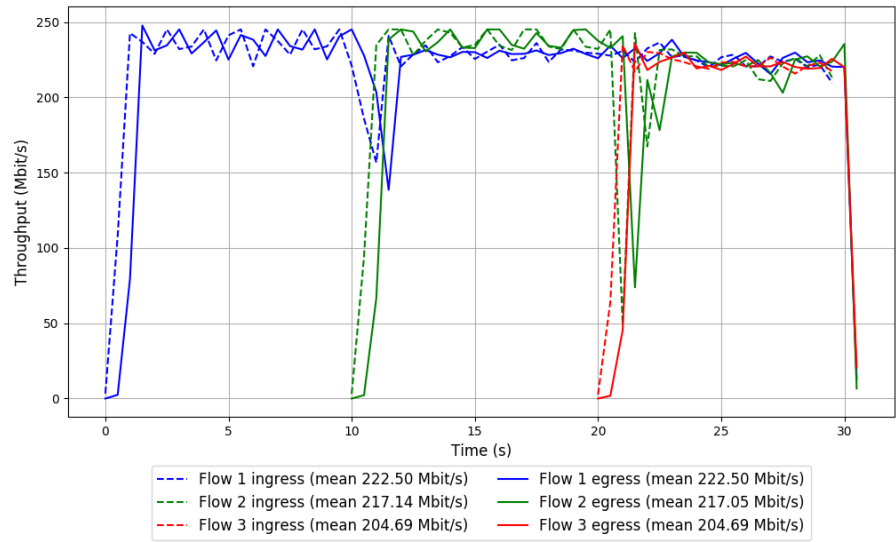
Run 9: Statistics of TCP BBR

Start at: 2018-05-26 05:50:29  
End at: 2018-05-26 05:50:59  
Local clock offset: -0.174 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-05-26 07:00:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 434.96 Mbit/s  
95th percentile per-packet one-way delay: 61.218 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 222.50 Mbit/s  
95th percentile per-packet one-way delay: 60.525 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 217.05 Mbit/s  
95th percentile per-packet one-way delay: 61.189 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 204.69 Mbit/s  
95th percentile per-packet one-way delay: 63.039 ms  
Loss rate: 0.00%



# Run 9: Report of TCP BBR — Data Link

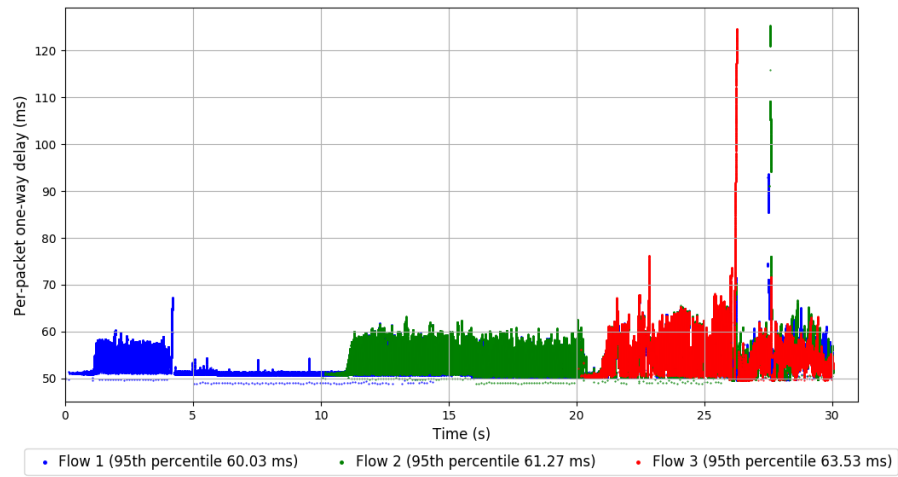
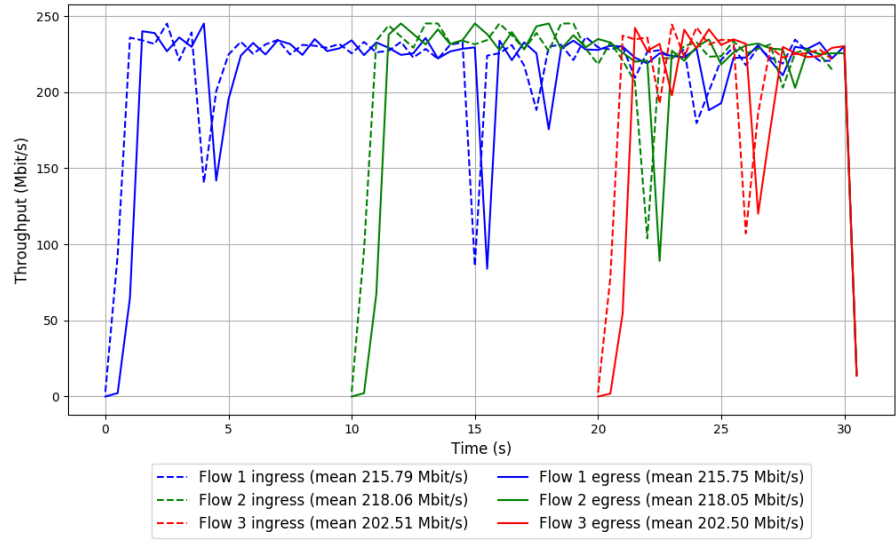


Run 10: Statistics of TCP BBR

Start at: 2018-05-26 06:13:35  
End at: 2018-05-26 06:14:05  
Local clock offset: -0.154 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-05-26 07:00:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 428.22 Mbit/s  
95th percentile per-packet one-way delay: 61.382 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 215.75 Mbit/s  
95th percentile per-packet one-way delay: 60.027 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 218.05 Mbit/s  
95th percentile per-packet one-way delay: 61.271 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 202.50 Mbit/s  
95th percentile per-packet one-way delay: 63.530 ms  
Loss rate: 0.03%

# Run 10: Report of TCP BBR — Data Link

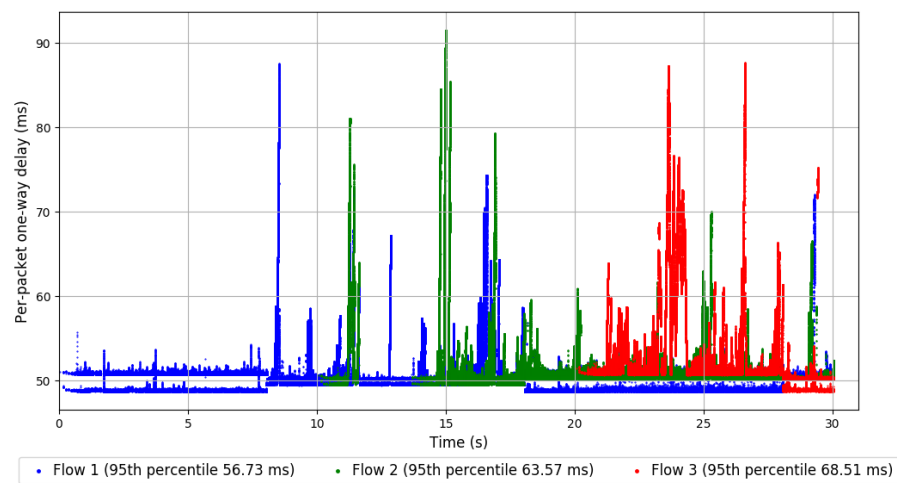
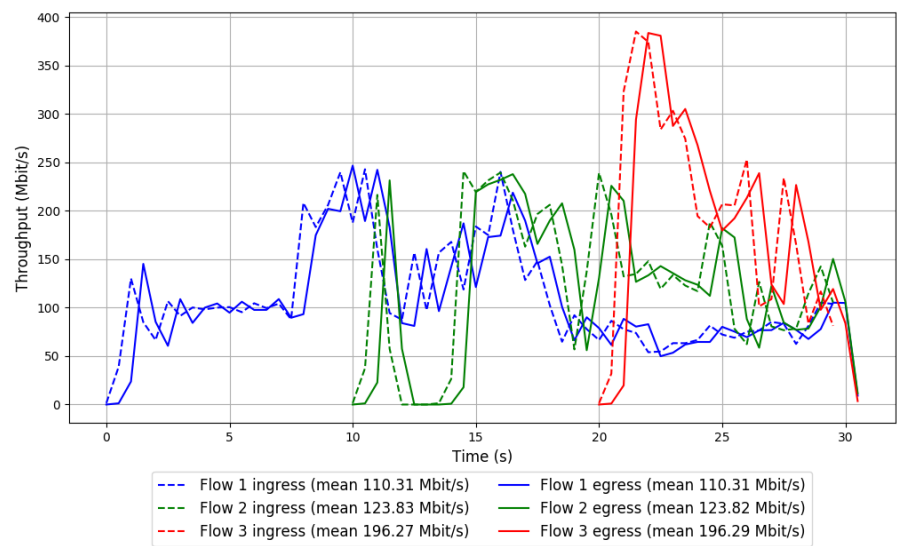


Run 1: Statistics of Copa

Start at: 2018-05-26 02:57:43  
End at: 2018-05-26 02:58:13  
Local clock offset: -0.23 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-05-26 07:01:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 258.03 Mbit/s  
95th percentile per-packet one-way delay: 62.905 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 110.31 Mbit/s  
95th percentile per-packet one-way delay: 56.725 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 123.82 Mbit/s  
95th percentile per-packet one-way delay: 63.573 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 196.29 Mbit/s  
95th percentile per-packet one-way delay: 68.509 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

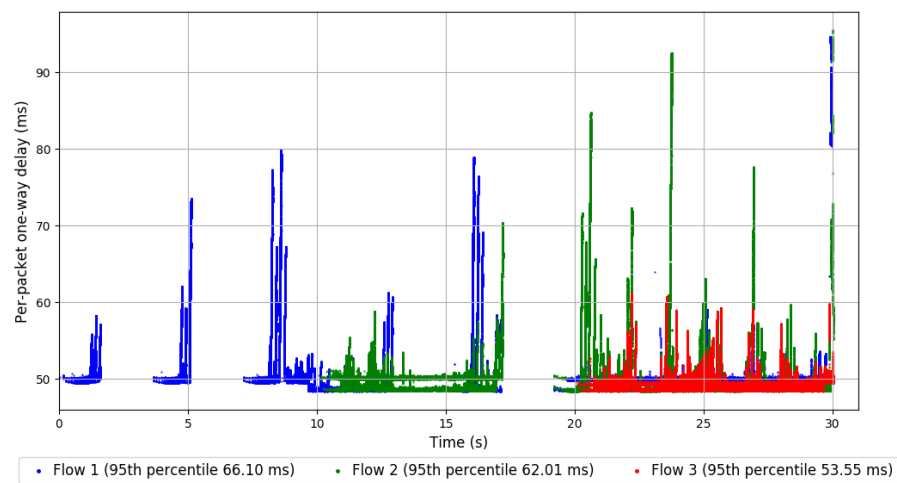
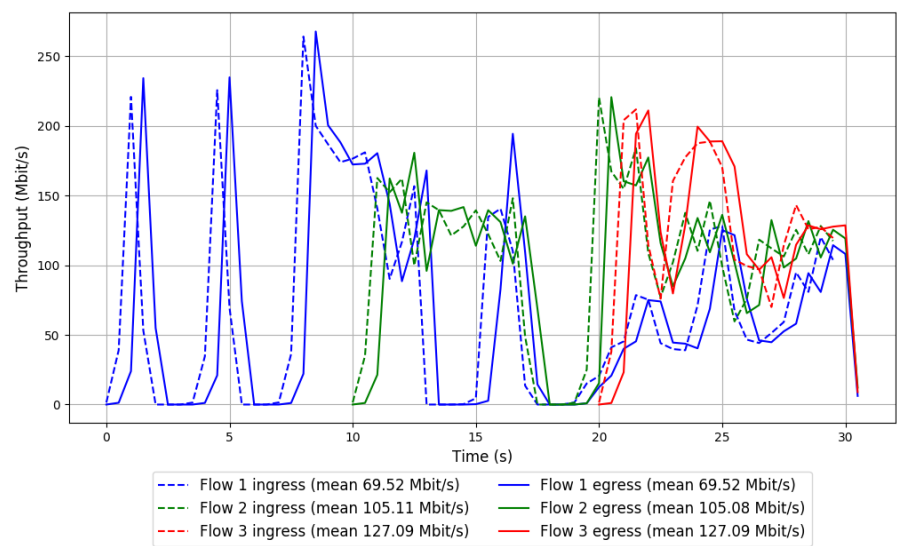


Run 2: Statistics of Copa

Start at: 2018-05-26 03:20:42  
End at: 2018-05-26 03:21:12  
Local clock offset: 0.104 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-05-26 07:01:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 181.70 Mbit/s  
95th percentile per-packet one-way delay: 61.076 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.52 Mbit/s  
95th percentile per-packet one-way delay: 66.096 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 105.08 Mbit/s  
95th percentile per-packet one-way delay: 62.014 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 127.09 Mbit/s  
95th percentile per-packet one-way delay: 53.548 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



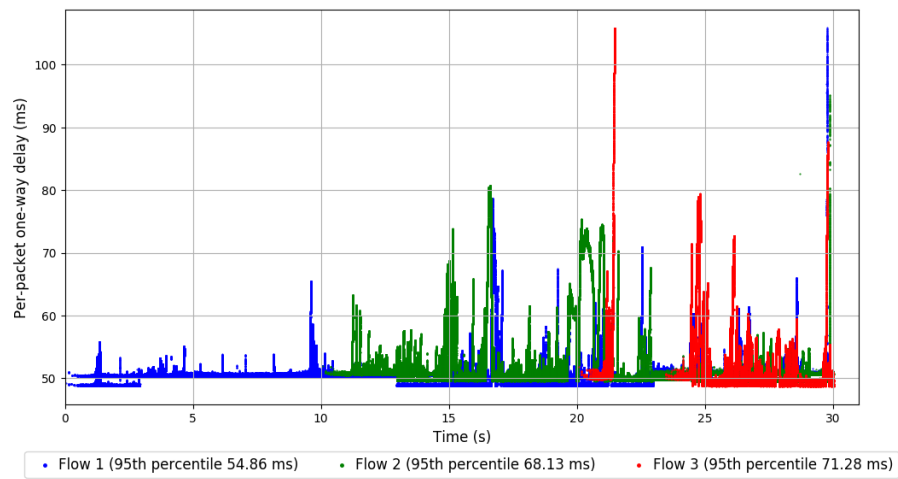
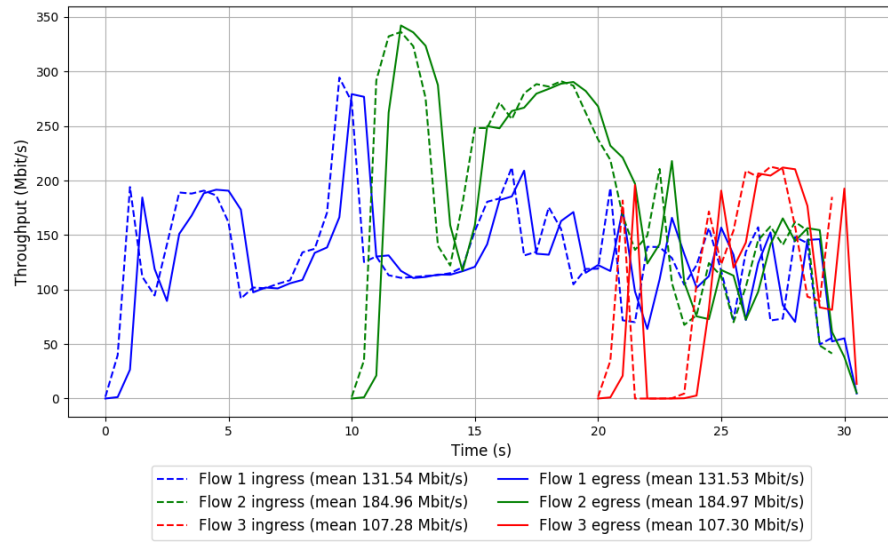
Run 3: Statistics of Copa

Start at: 2018-05-26 03:43:37  
End at: 2018-05-26 03:44:07  
Local clock offset: -0.234 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-05-26 07:02:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 290.29 Mbit/s  
95th percentile per-packet one-way delay: 63.445 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 131.53 Mbit/s  
95th percentile per-packet one-way delay: 54.862 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 184.97 Mbit/s  
95th percentile per-packet one-way delay: 68.131 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 107.30 Mbit/s  
95th percentile per-packet one-way delay: 71.285 ms  
Loss rate: 0.00%



### Run 3: Report of Copa — Data Link

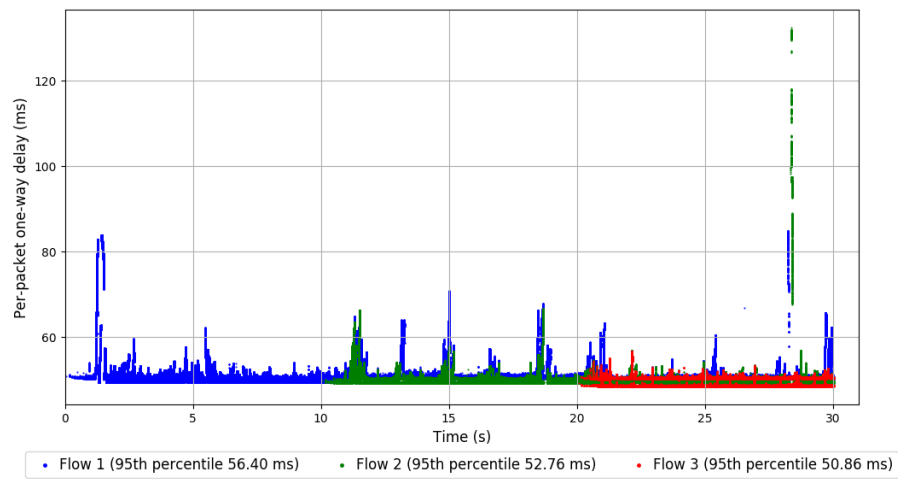
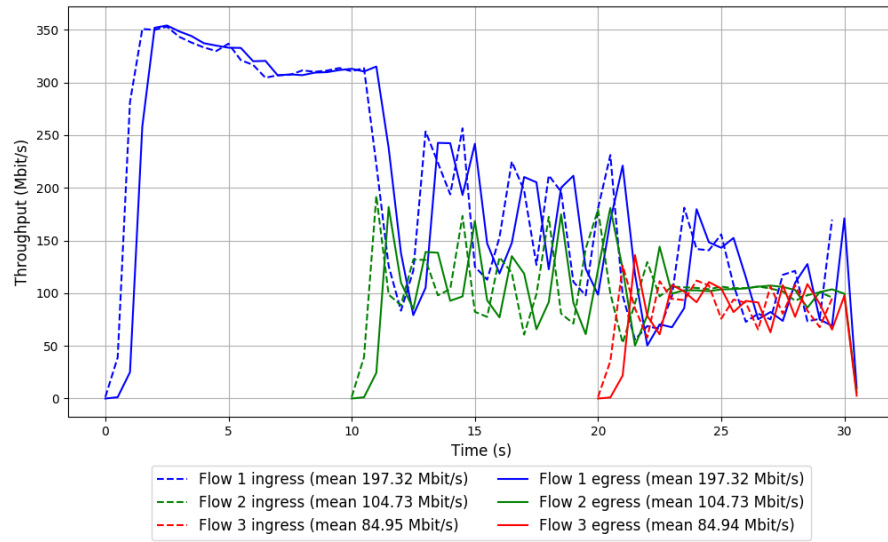


Run 4: Statistics of Copa

Start at: 2018-05-26 04:06:30  
End at: 2018-05-26 04:07:00  
Local clock offset: 0.114 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-26 07:02:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 295.31 Mbit/s  
95th percentile per-packet one-way delay: 55.103 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 197.32 Mbit/s  
95th percentile per-packet one-way delay: 56.396 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 104.73 Mbit/s  
95th percentile per-packet one-way delay: 52.762 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 84.94 Mbit/s  
95th percentile per-packet one-way delay: 50.858 ms  
Loss rate: 0.00%

# Run 4: Report of Copa — Data Link

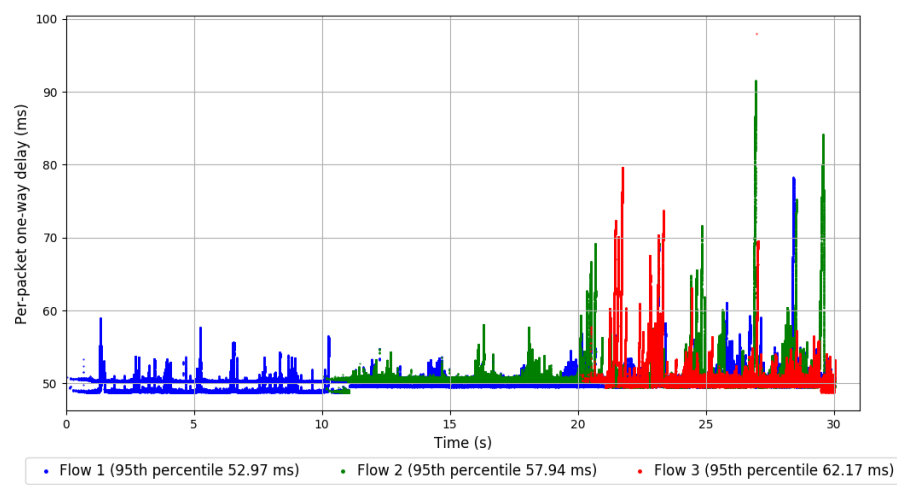
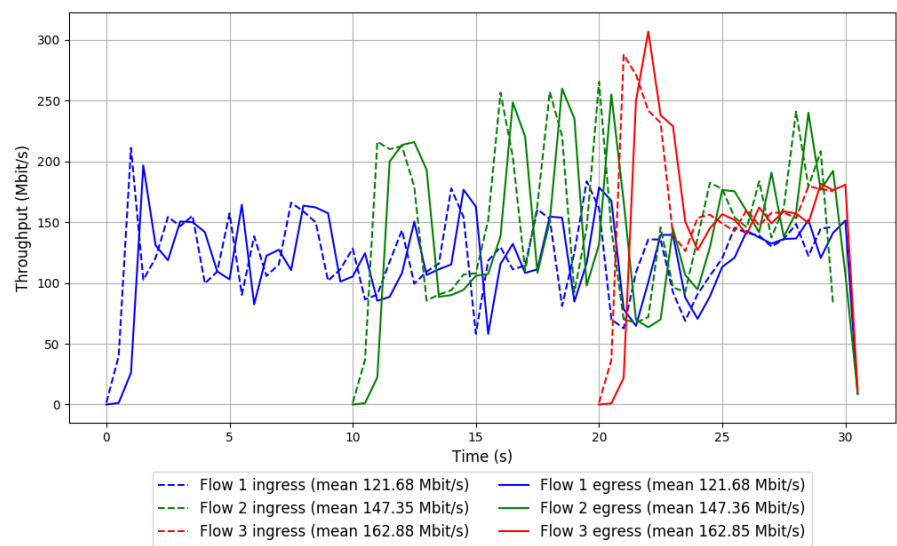


Run 5: Statistics of Copa

Start at: 2018-05-26 04:29:30  
End at: 2018-05-26 04:30:00  
Local clock offset: -0.265 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2018-05-26 07:02:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 273.95 Mbit/s  
95th percentile per-packet one-way delay: 56.523 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 121.68 Mbit/s  
95th percentile per-packet one-way delay: 52.974 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 147.36 Mbit/s  
95th percentile per-packet one-way delay: 57.939 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 162.85 Mbit/s  
95th percentile per-packet one-way delay: 62.175 ms  
Loss rate: 0.03%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-26 04:52:26

End at: 2018-05-26 04:52:56

Local clock offset: -0.189 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-05-26 07:02:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 279.44 Mbit/s

95th percentile per-packet one-way delay: 64.056 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.65 Mbit/s

95th percentile per-packet one-way delay: 79.614 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.12 Mbit/s

95th percentile per-packet one-way delay: 56.740 ms

Loss rate: 0.00%

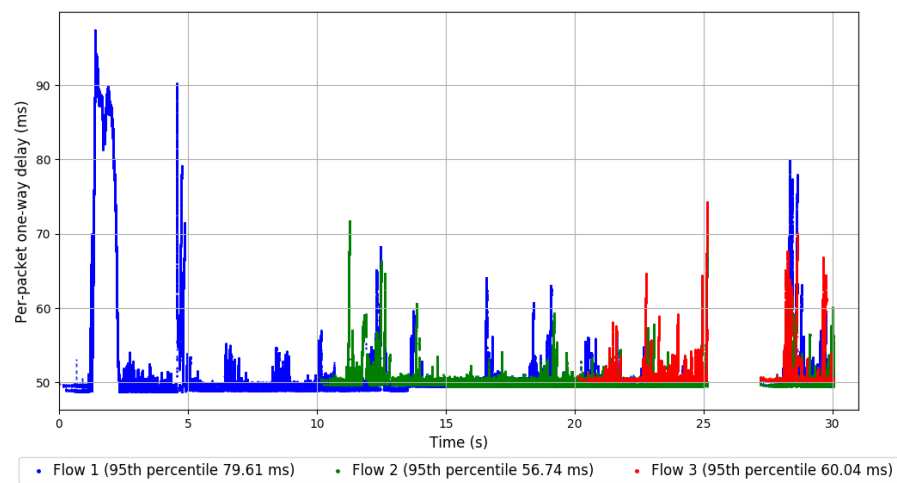
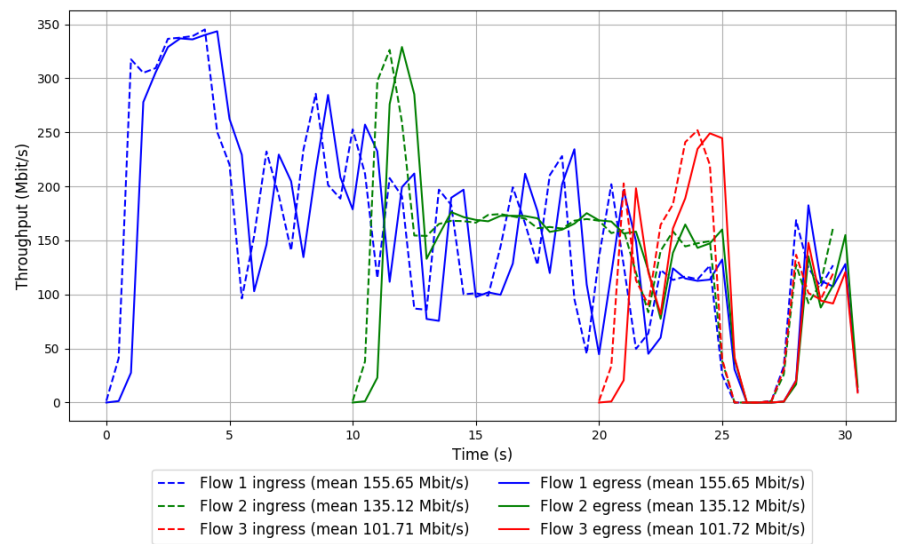
-- Flow 3:

Average throughput: 101.72 Mbit/s

95th percentile per-packet one-way delay: 60.044 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-26 05:15:40

End at: 2018-05-26 05:16:10

Local clock offset: -0.184 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2018-05-26 07:05:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 219.32 Mbit/s

95th percentile per-packet one-way delay: 52.706 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 112.40 Mbit/s

95th percentile per-packet one-way delay: 51.973 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 53.950 ms

Loss rate: 0.00%

-- Flow 3:

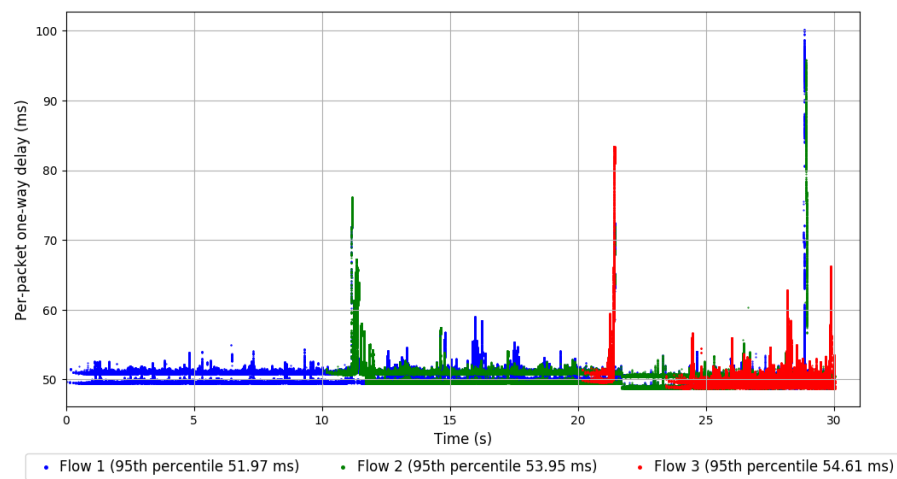
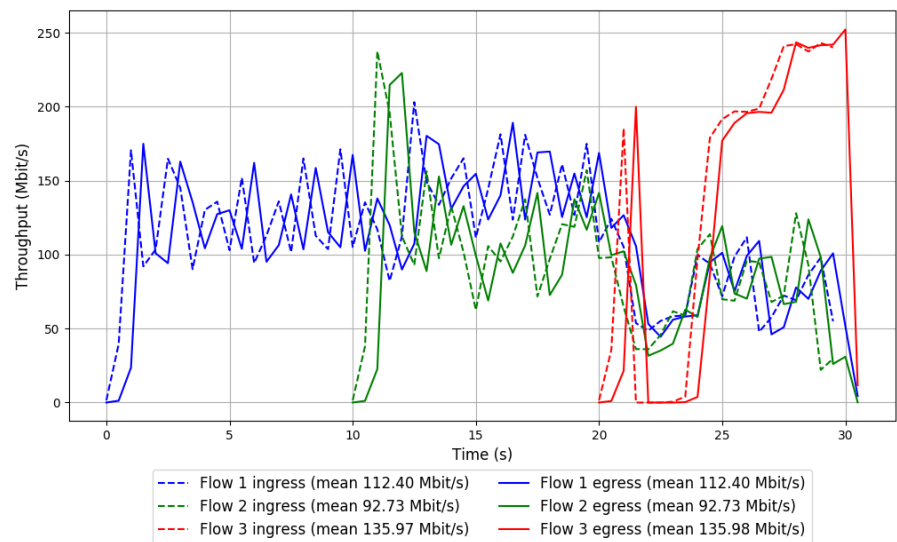
Average throughput: 135.98 Mbit/s

95th percentile per-packet one-way delay: 54.609 ms

Loss rate: 0.00%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-26 05:38:44

End at: 2018-05-26 05:39:14

Local clock offset: -0.23 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-05-26 07:08:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 270.50 Mbit/s

95th percentile per-packet one-way delay: 53.544 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 169.65 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 94.30 Mbit/s

95th percentile per-packet one-way delay: 51.632 ms

Loss rate: 0.00%

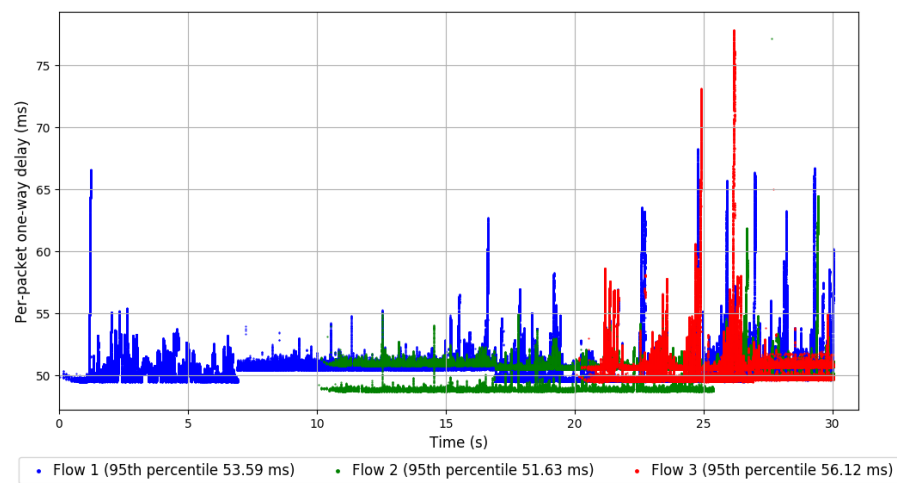
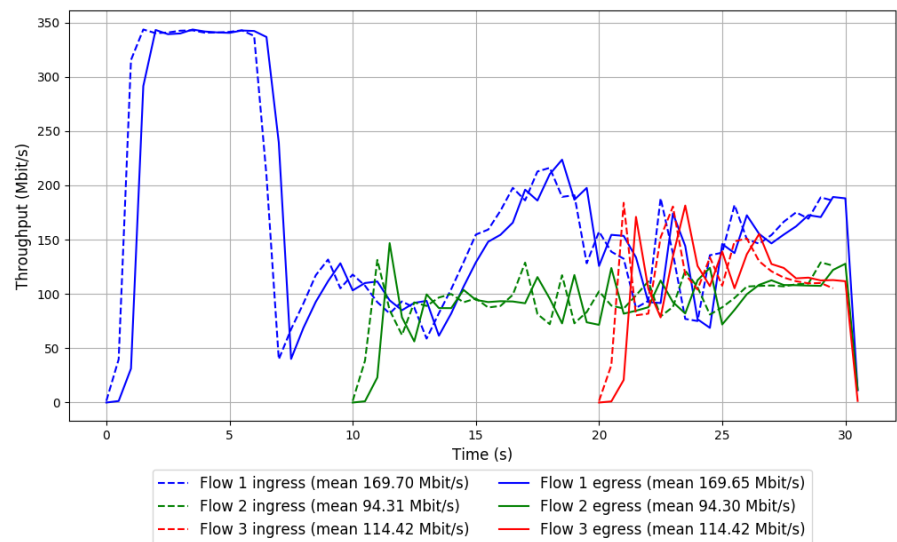
-- Flow 3:

Average throughput: 114.42 Mbit/s

95th percentile per-packet one-way delay: 56.120 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

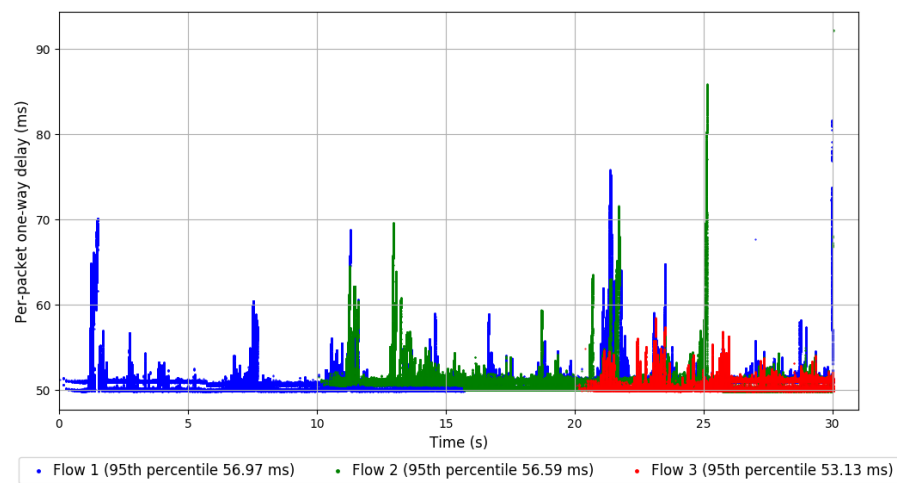
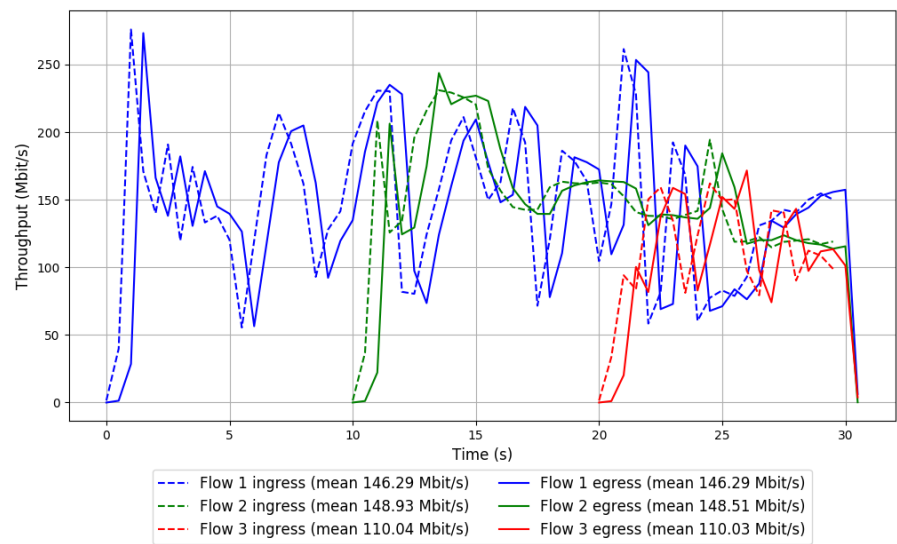


Run 9: Statistics of Copa

Start at: 2018-05-26 06:01:46  
End at: 2018-05-26 06:02:16  
Local clock offset: -0.533 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-05-26 07:09:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 281.76 Mbit/s  
95th percentile per-packet one-way delay: 56.013 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 146.29 Mbit/s  
95th percentile per-packet one-way delay: 56.969 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 148.51 Mbit/s  
95th percentile per-packet one-way delay: 56.589 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 110.03 Mbit/s  
95th percentile per-packet one-way delay: 53.126 ms  
Loss rate: 0.01%

Run 9: Report of Copa — Data Link

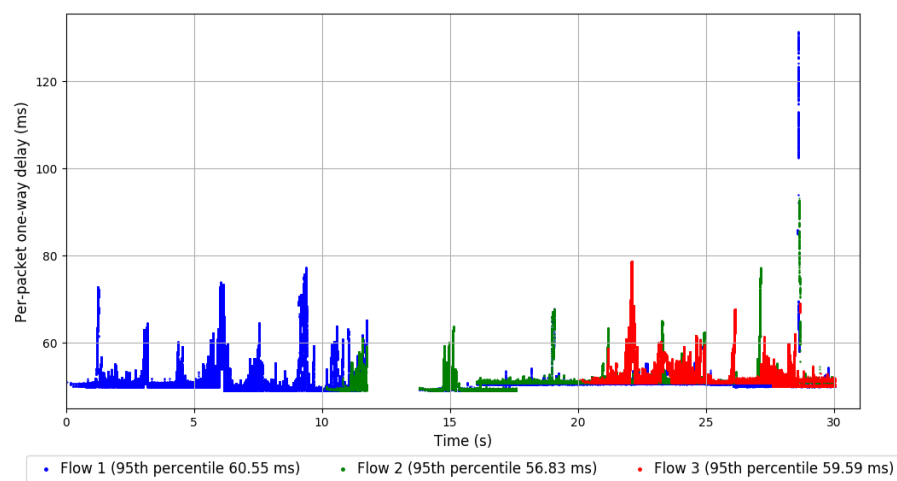
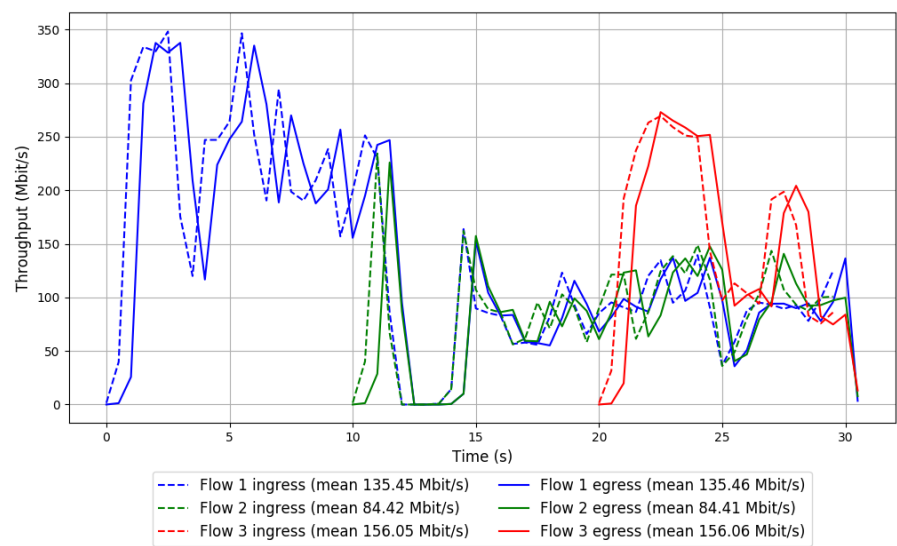


Run 10: Statistics of Copa

Start at: 2018-05-26 06:24:54  
End at: 2018-05-26 06:25:24  
Local clock offset: -0.5 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-05-26 07:09:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 243.50 Mbit/s  
95th percentile per-packet one-way delay: 59.604 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 135.46 Mbit/s  
95th percentile per-packet one-way delay: 60.554 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 84.41 Mbit/s  
95th percentile per-packet one-way delay: 56.829 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 156.06 Mbit/s  
95th percentile per-packet one-way delay: 59.590 ms  
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-26 02:43:38

End at: 2018-05-26 02:44:08

Local clock offset: -0.29 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-05-26 07:09:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 369.54 Mbit/s

95th percentile per-packet one-way delay: 65.968 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 184.80 Mbit/s

95th percentile per-packet one-way delay: 62.836 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 199.16 Mbit/s

95th percentile per-packet one-way delay: 66.149 ms

Loss rate: 0.00%

-- Flow 3:

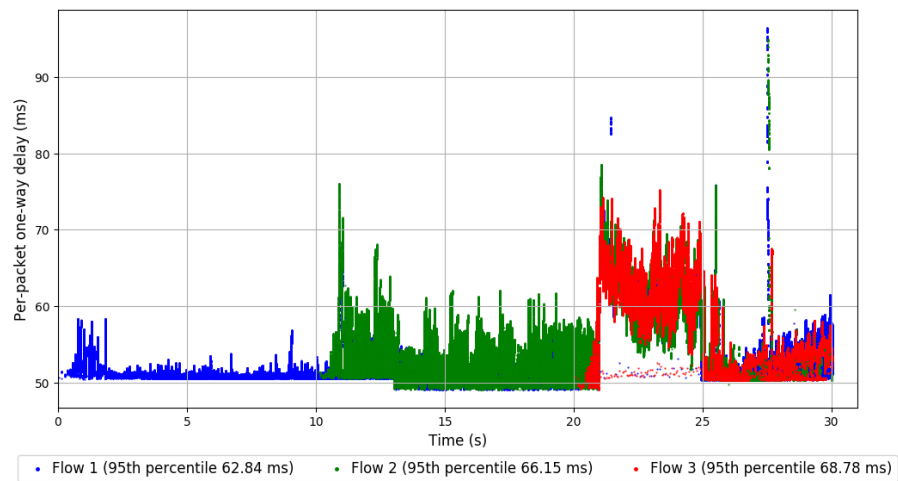
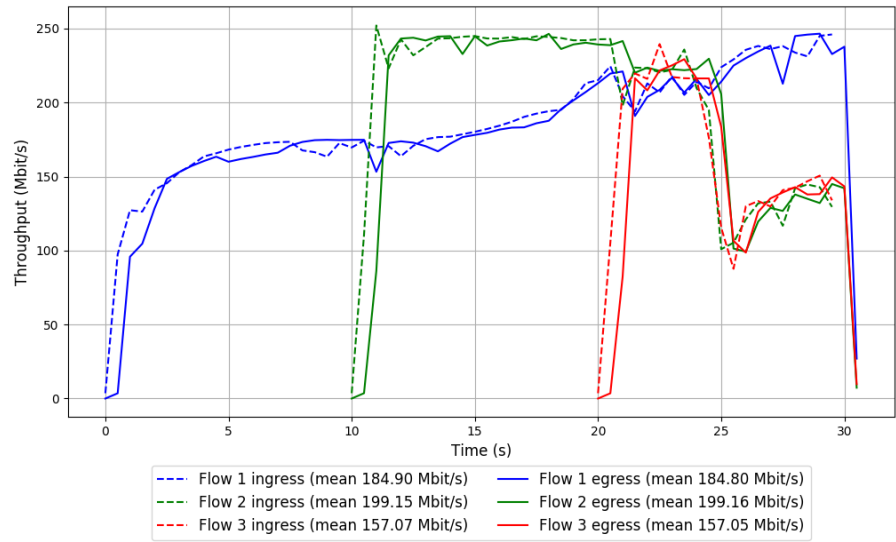
Average throughput: 157.05 Mbit/s

95th percentile per-packet one-way delay: 68.776 ms

Loss rate: 0.01%



# Run 1: Report of TCP Cubic — Data Link

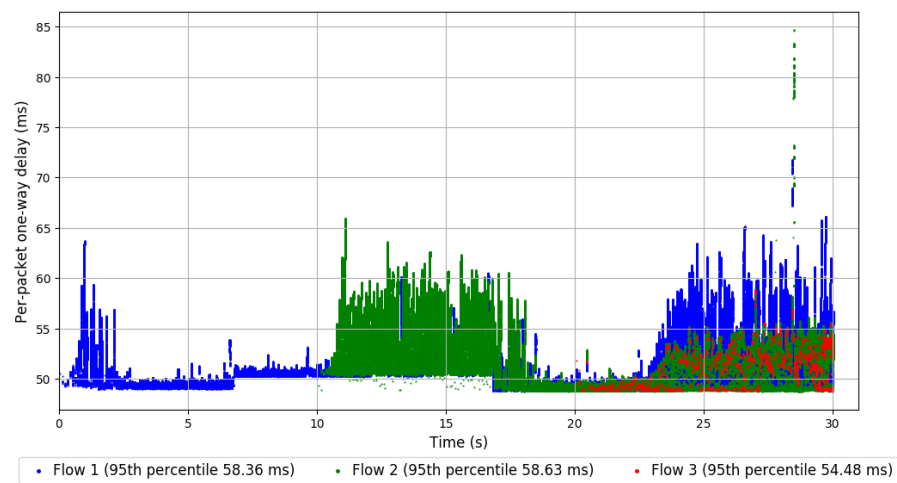
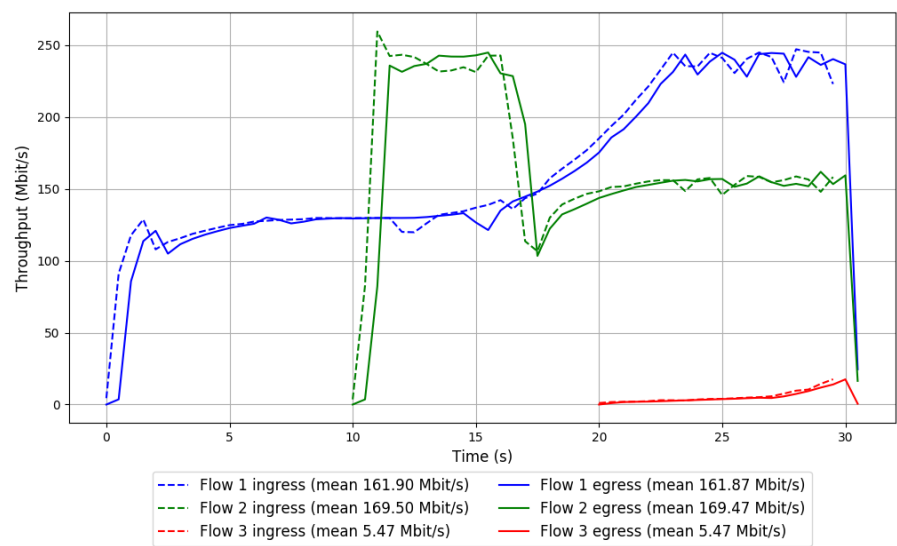


Run 2: Statistics of TCP Cubic

Start at: 2018-05-26 03:06:34  
End at: 2018-05-26 03:07:04  
Local clock offset: -0.257 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-05-26 07:09:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 276.57 Mbit/s  
95th percentile per-packet one-way delay: 58.493 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 161.87 Mbit/s  
95th percentile per-packet one-way delay: 58.363 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 169.47 Mbit/s  
95th percentile per-packet one-way delay: 58.633 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.47 Mbit/s  
95th percentile per-packet one-way delay: 54.485 ms  
Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link

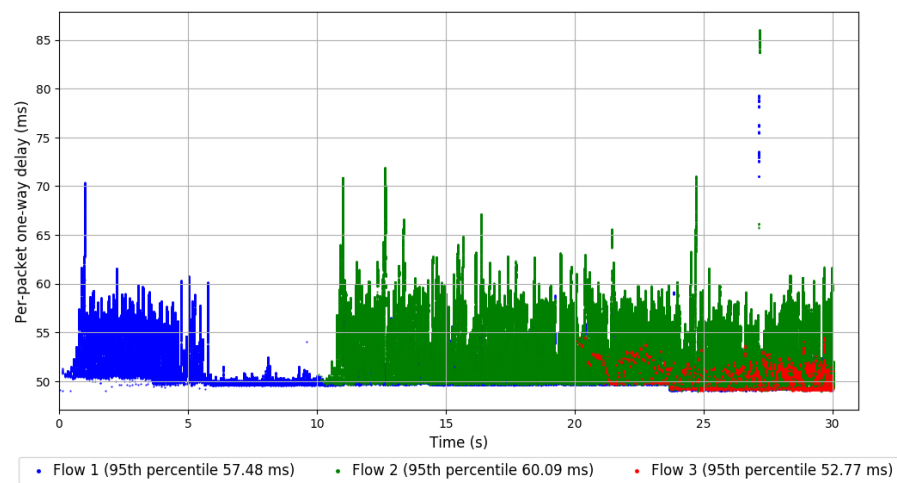
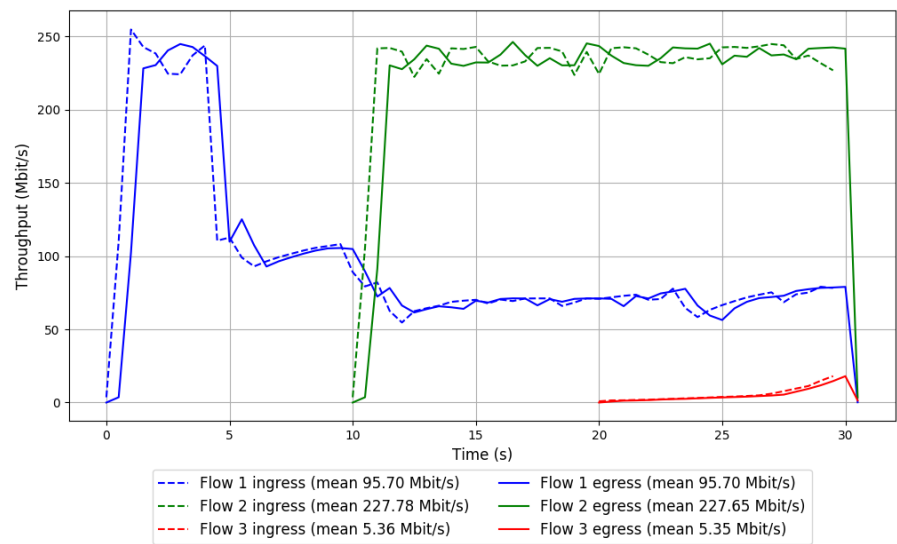


Run 3: Statistics of TCP Cubic

Start at: 2018-05-26 03:29:28  
End at: 2018-05-26 03:29:58  
Local clock offset: -0.243 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-05-26 07:09:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 249.05 Mbit/s  
95th percentile per-packet one-way delay: 59.184 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 95.70 Mbit/s  
95th percentile per-packet one-way delay: 57.480 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 227.65 Mbit/s  
95th percentile per-packet one-way delay: 60.090 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 5.35 Mbit/s  
95th percentile per-packet one-way delay: 52.766 ms  
Loss rate: 0.18%

Run 3: Report of TCP Cubic — Data Link

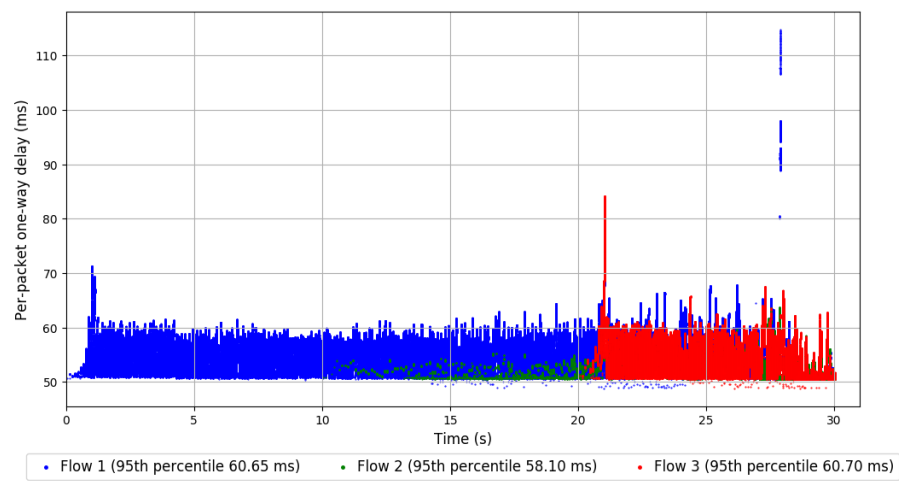
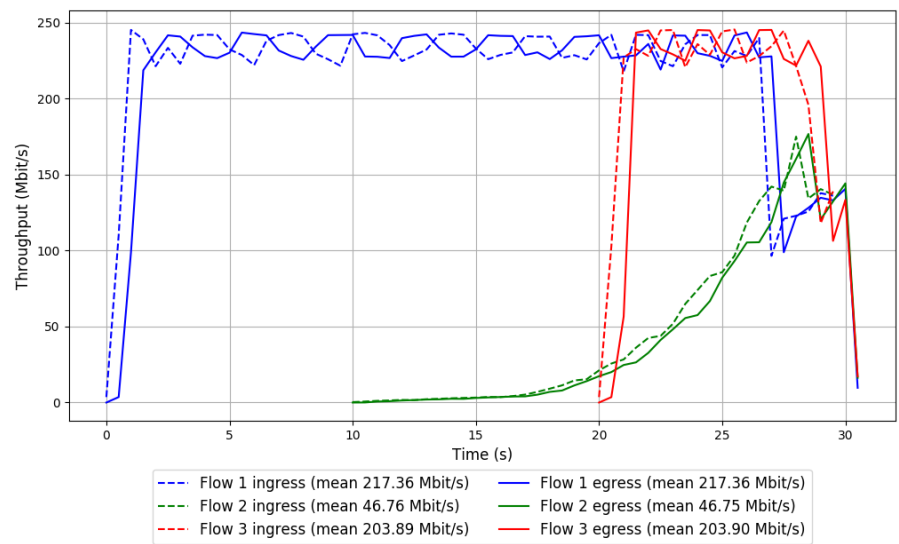


Run 4: Statistics of TCP Cubic

Start at: 2018-05-26 03:52:27  
End at: 2018-05-26 03:52:57  
Local clock offset: -0.224 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-05-26 07:09:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 316.29 Mbit/s  
95th percentile per-packet one-way delay: 60.547 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 217.36 Mbit/s  
95th percentile per-packet one-way delay: 60.653 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.75 Mbit/s  
95th percentile per-packet one-way delay: 58.103 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 203.90 Mbit/s  
95th percentile per-packet one-way delay: 60.698 ms  
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



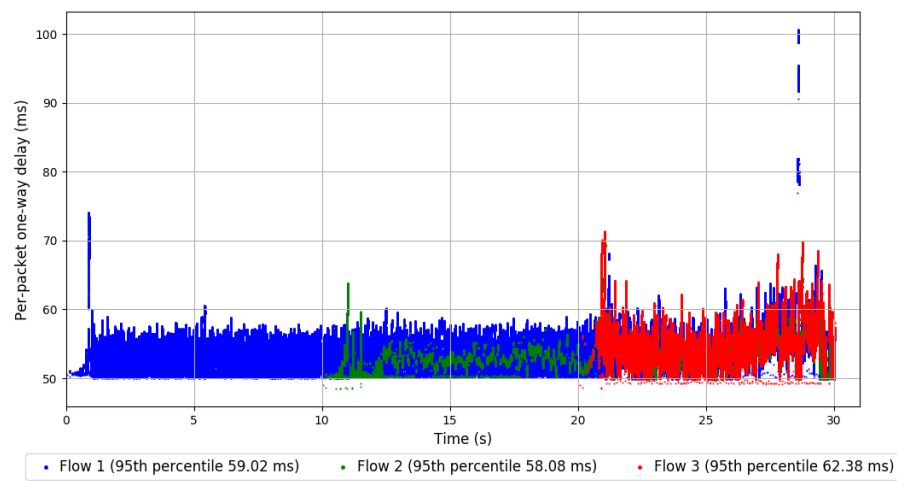
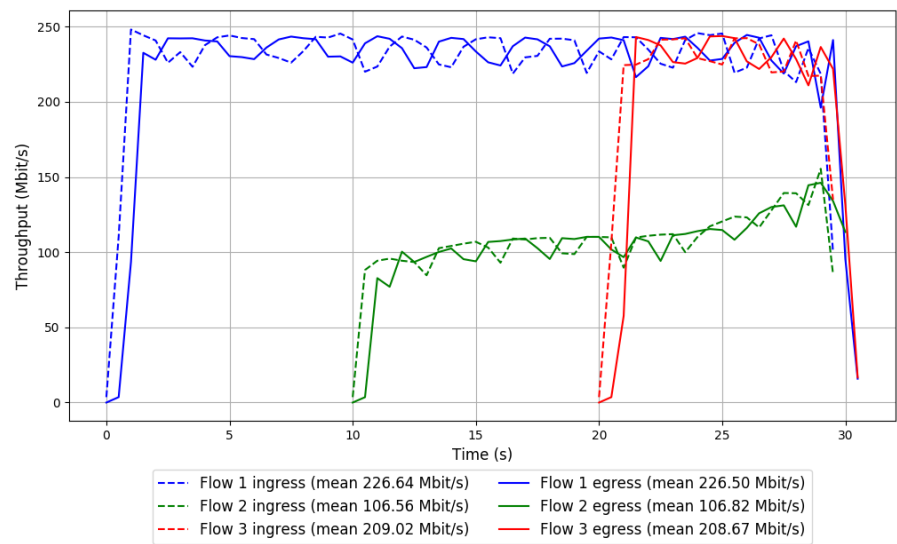
Run 5: Statistics of TCP Cubic

Start at: 2018-05-26 04:15:20  
End at: 2018-05-26 04:15:50  
Local clock offset: 0.155 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-05-26 07:12:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 366.85 Mbit/s  
95th percentile per-packet one-way delay: 59.759 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 226.50 Mbit/s  
95th percentile per-packet one-way delay: 59.021 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 106.82 Mbit/s  
95th percentile per-packet one-way delay: 58.075 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 208.67 Mbit/s  
95th percentile per-packet one-way delay: 62.381 ms  
Loss rate: 0.16%



Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-26 04:38:17

End at: 2018-05-26 04:38:47

Local clock offset: 0.176 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-05-26 07:12:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 304.03 Mbit/s

95th percentile per-packet one-way delay: 59.012 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 133.69 Mbit/s

95th percentile per-packet one-way delay: 57.778 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 146.70 Mbit/s

95th percentile per-packet one-way delay: 56.764 ms

Loss rate: 0.00%

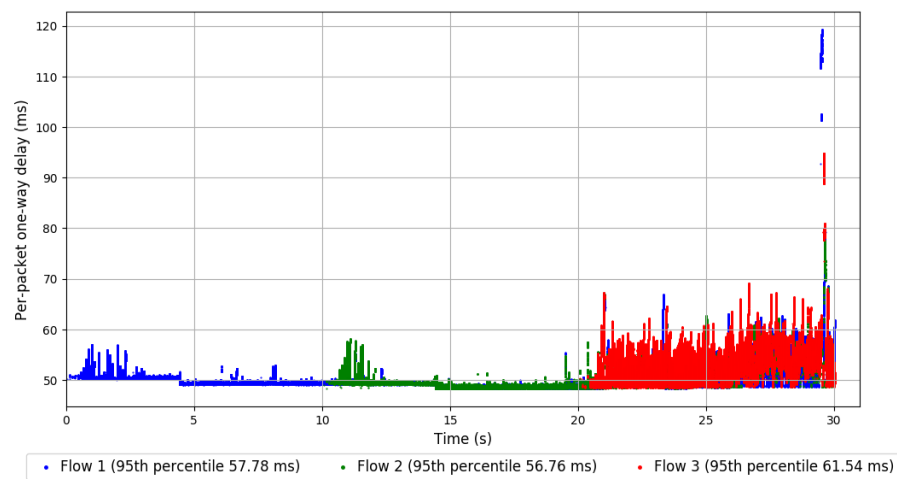
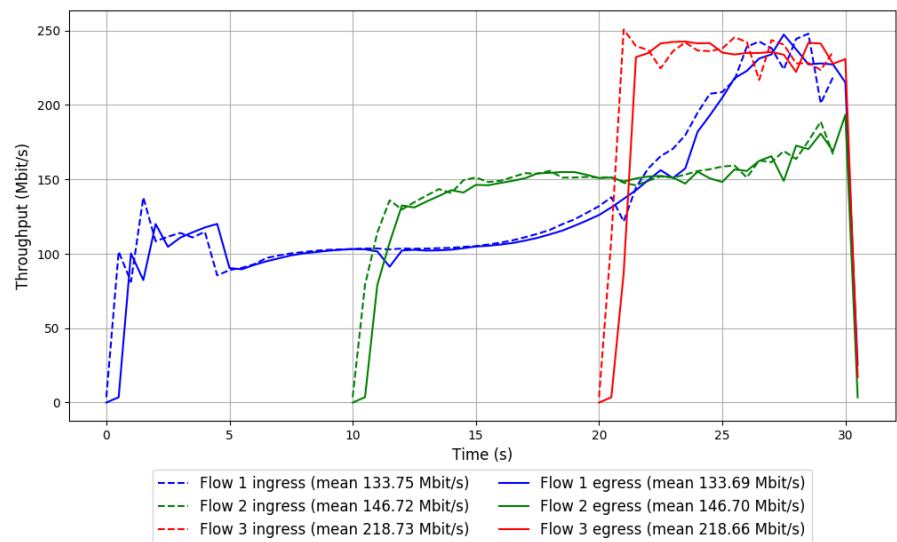
-- Flow 3:

Average throughput: 218.66 Mbit/s

95th percentile per-packet one-way delay: 61.542 ms

Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-26 05:01:34

End at: 2018-05-26 05:02:04

Local clock offset: -0.216 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-26 07:12:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 237.63 Mbit/s

95th percentile per-packet one-way delay: 59.257 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 144.64 Mbit/s

95th percentile per-packet one-way delay: 56.791 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 35.96 Mbit/s

95th percentile per-packet one-way delay: 57.384 ms

Loss rate: 0.03%

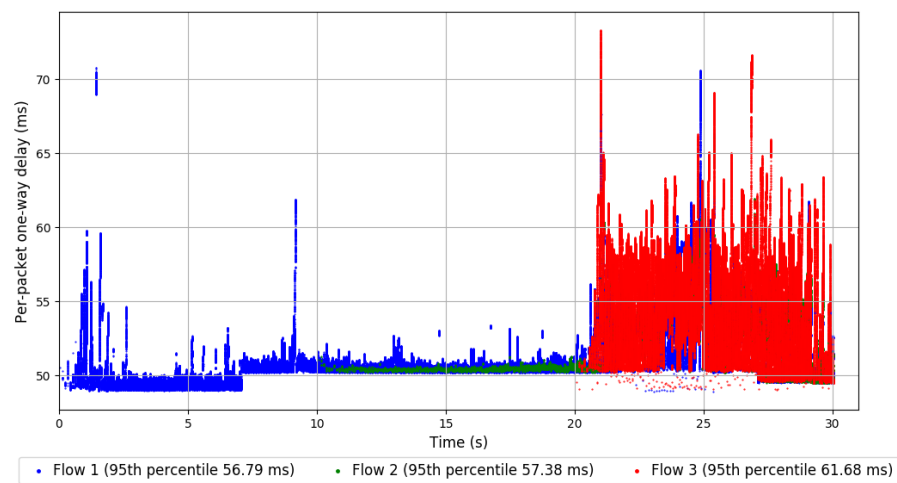
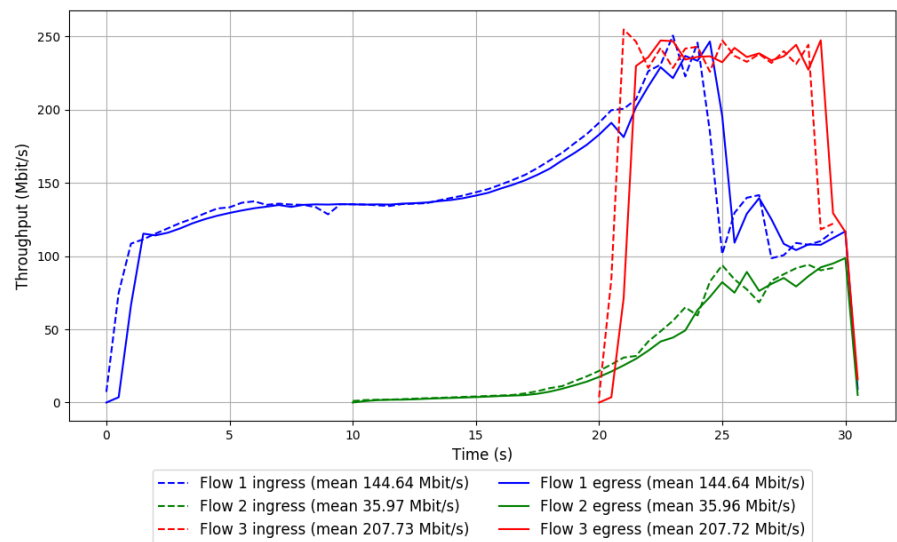
-- Flow 3:

Average throughput: 207.72 Mbit/s

95th percentile per-packet one-way delay: 61.677 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-26 05:24:25

End at: 2018-05-26 05:24:55

Local clock offset: -0.564 ms

Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2018-05-26 07:12:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 305.27 Mbit/s

95th percentile per-packet one-way delay: 61.494 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 155.33 Mbit/s

95th percentile per-packet one-way delay: 60.716 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 119.82 Mbit/s

95th percentile per-packet one-way delay: 57.778 ms

Loss rate: 0.08%

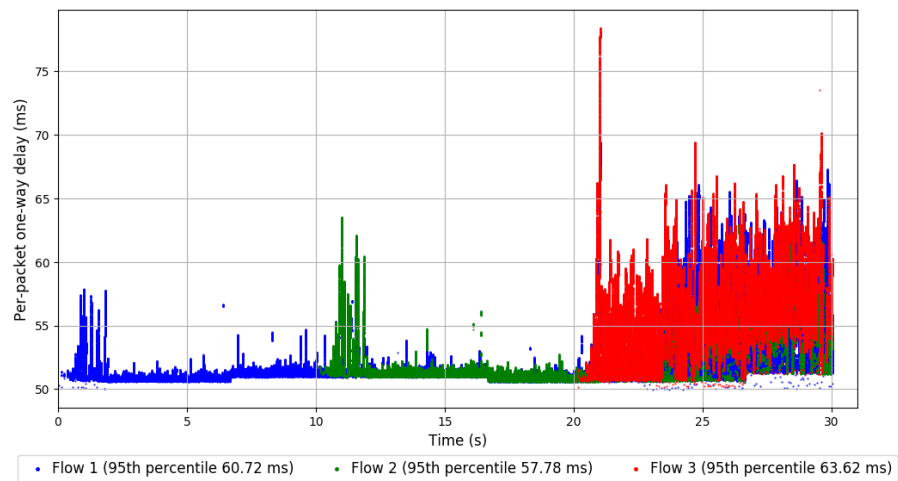
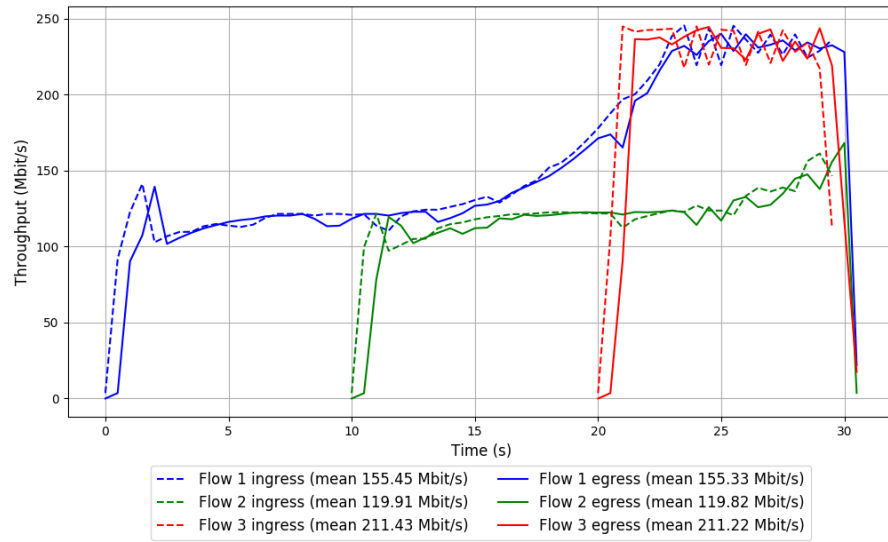
-- Flow 3:

Average throughput: 211.22 Mbit/s

95th percentile per-packet one-way delay: 63.620 ms

Loss rate: 0.00%

# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-26 05:47:37

End at: 2018-05-26 05:48:07

Local clock offset: -0.193 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-05-26 07:12:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 279.69 Mbit/s

95th percentile per-packet one-way delay: 57.914 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 141.78 Mbit/s

95th percentile per-packet one-way delay: 58.559 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.90 Mbit/s

95th percentile per-packet one-way delay: 56.724 ms

Loss rate: 0.00%

-- Flow 3:

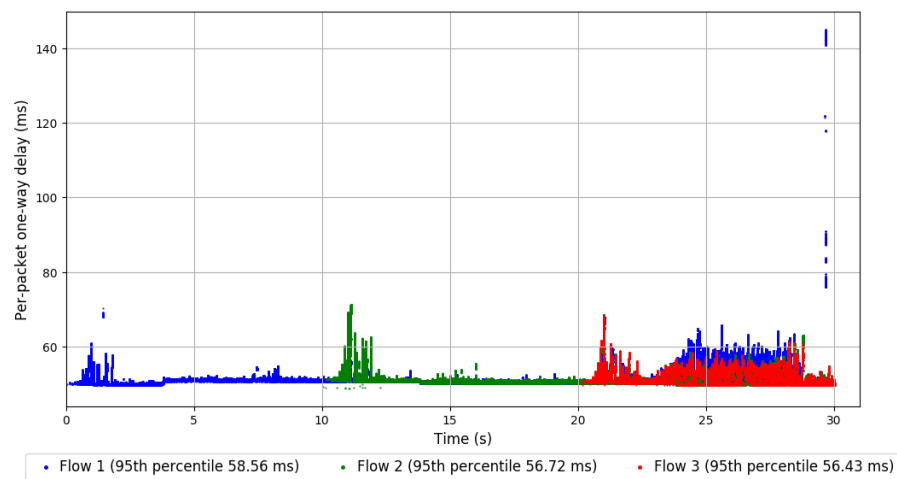
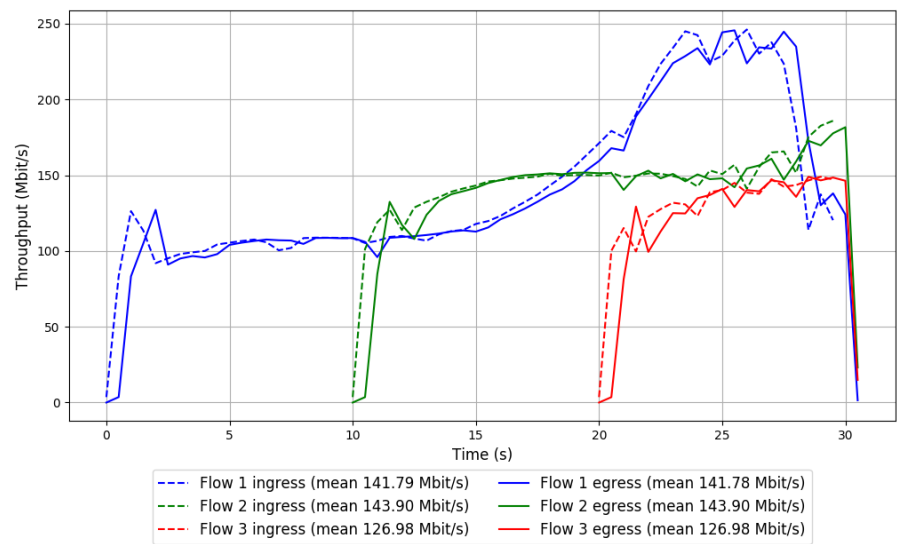
Average throughput: 126.98 Mbit/s

95th percentile per-packet one-way delay: 56.431 ms

Loss rate: 0.00%



Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-26 06:10:39

End at: 2018-05-26 06:11:09

Local clock offset: 0.247 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-05-26 07:13:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 331.52 Mbit/s

95th percentile per-packet one-way delay: 60.099 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 187.49 Mbit/s

95th percentile per-packet one-way delay: 58.853 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 126.95 Mbit/s

95th percentile per-packet one-way delay: 58.569 ms

Loss rate: 0.11%

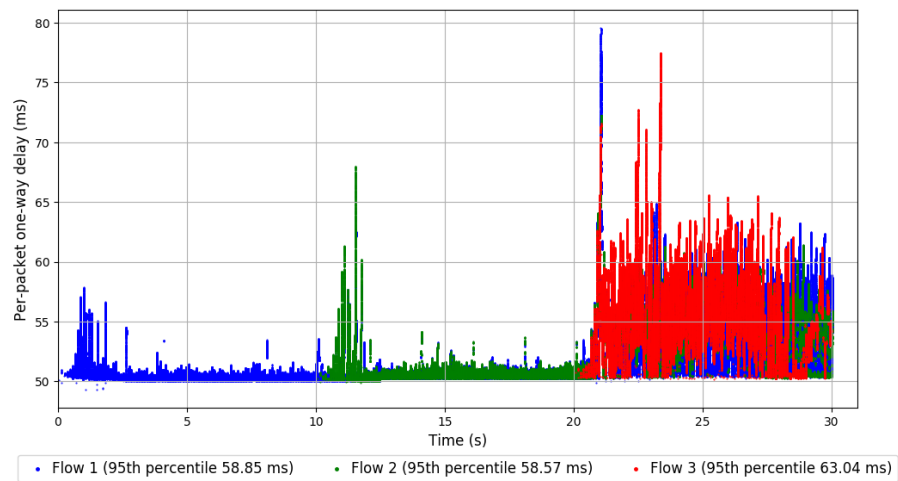
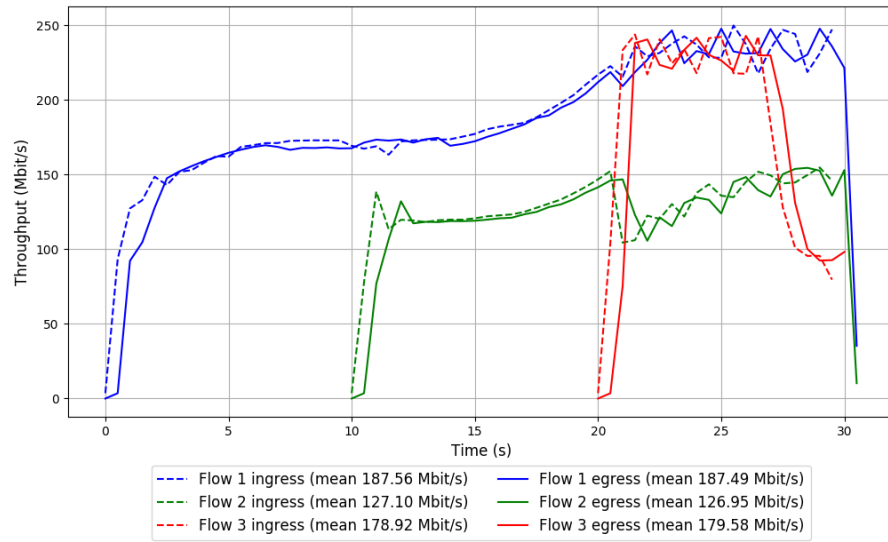
-- Flow 3:

Average throughput: 179.58 Mbit/s

95th percentile per-packet one-way delay: 63.038 ms

Loss rate: 0.01%

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

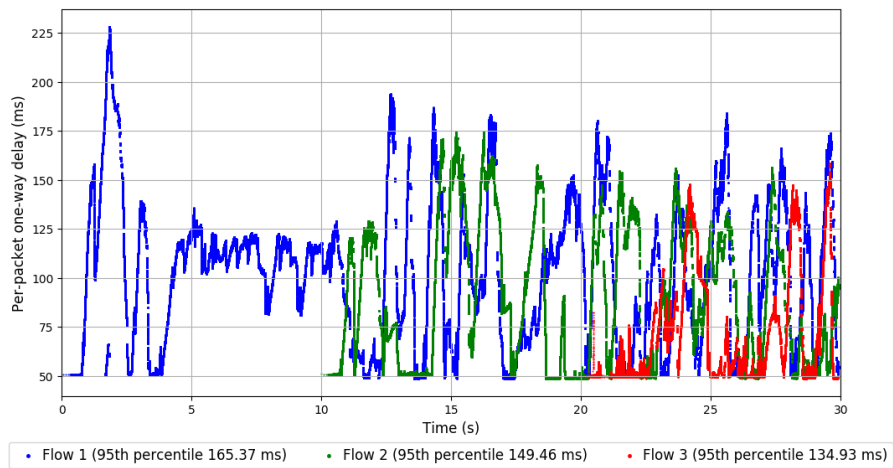
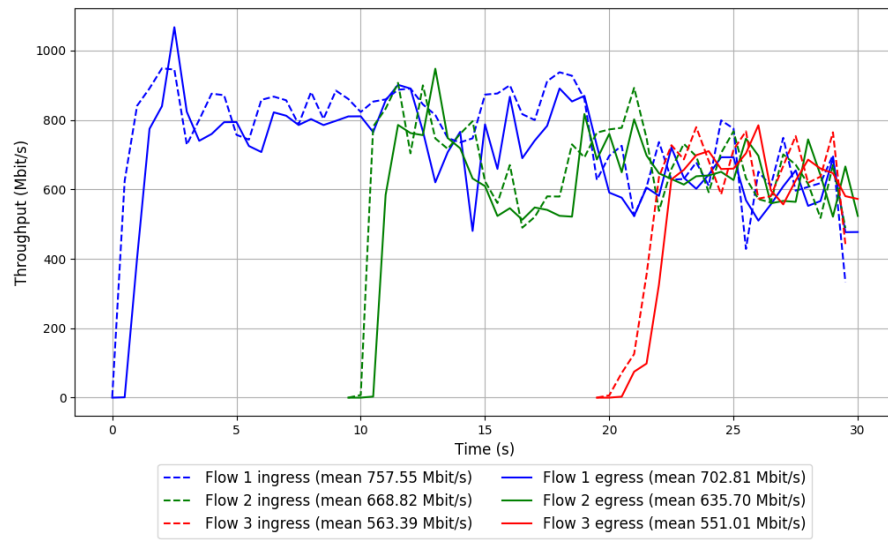


Run 1: Statistics of FillP

Start at: 2018-05-26 03:00:23  
End at: 2018-05-26 03:00:53  
Local clock offset: -0.258 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-26 07:33:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1309.94 Mbit/s  
95th percentile per-packet one-way delay: 154.670 ms  
Loss rate: 5.81%  
-- Flow 1:  
Average throughput: 702.81 Mbit/s  
95th percentile per-packet one-way delay: 165.373 ms  
Loss rate: 7.22%  
-- Flow 2:  
Average throughput: 635.70 Mbit/s  
95th percentile per-packet one-way delay: 149.457 ms  
Loss rate: 4.95%  
-- Flow 3:  
Average throughput: 551.01 Mbit/s  
95th percentile per-packet one-way delay: 134.928 ms  
Loss rate: 2.20%

## Run 1: Report of FillP — Data Link

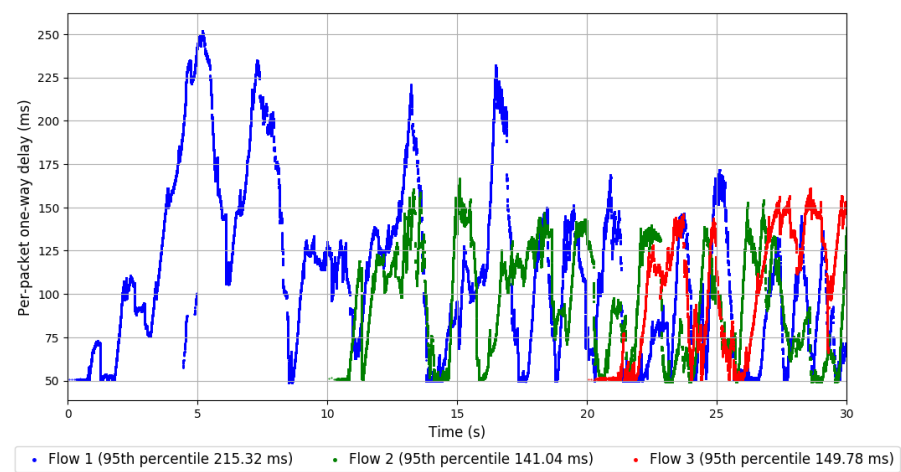
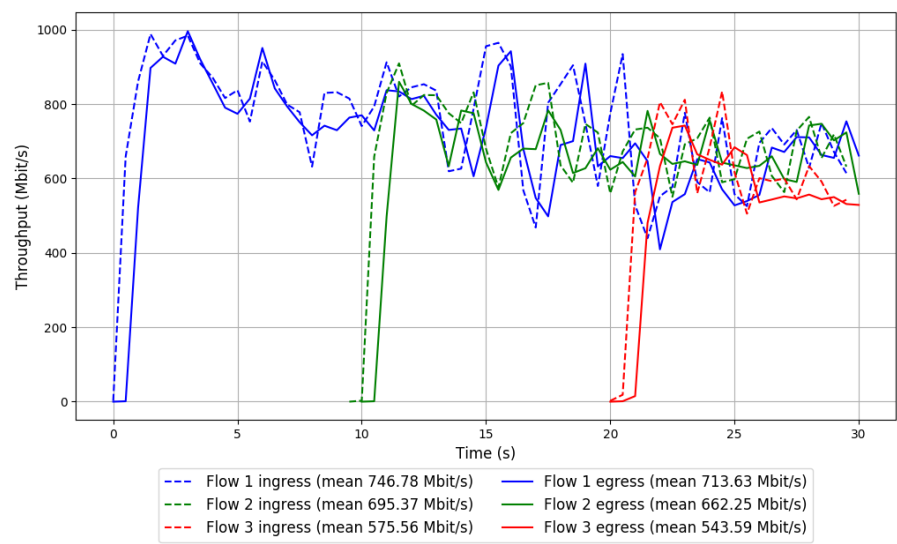


Run 2: Statistics of FillP

Start at: 2018-05-26 03:23:17  
End at: 2018-05-26 03:23:47  
Local clock offset: -0.294 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-05-26 07:34:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1334.97 Mbit/s  
95th percentile per-packet one-way delay: 193.292 ms  
Loss rate: 4.70%  
-- Flow 1:  
Average throughput: 713.63 Mbit/s  
95th percentile per-packet one-way delay: 215.317 ms  
Loss rate: 4.44%  
-- Flow 2:  
Average throughput: 662.25 Mbit/s  
95th percentile per-packet one-way delay: 141.043 ms  
Loss rate: 4.77%  
-- Flow 3:  
Average throughput: 543.59 Mbit/s  
95th percentile per-packet one-way delay: 149.785 ms  
Loss rate: 5.56%

Run 2: Report of FillP — Data Link



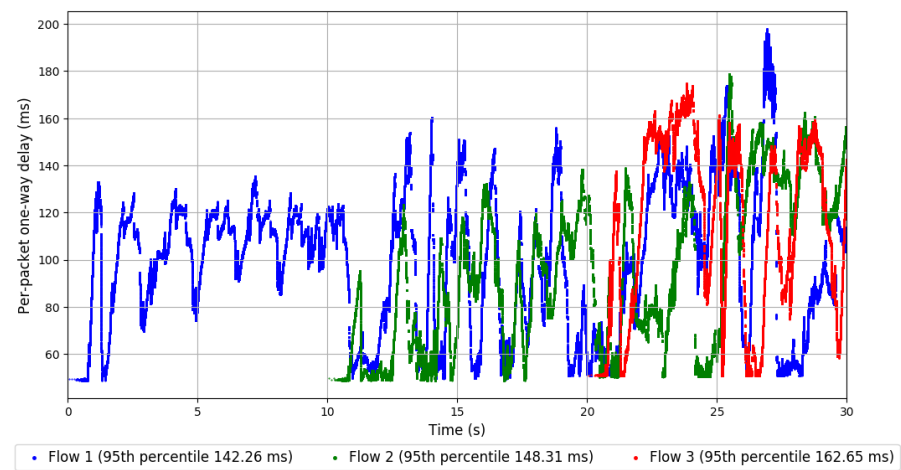
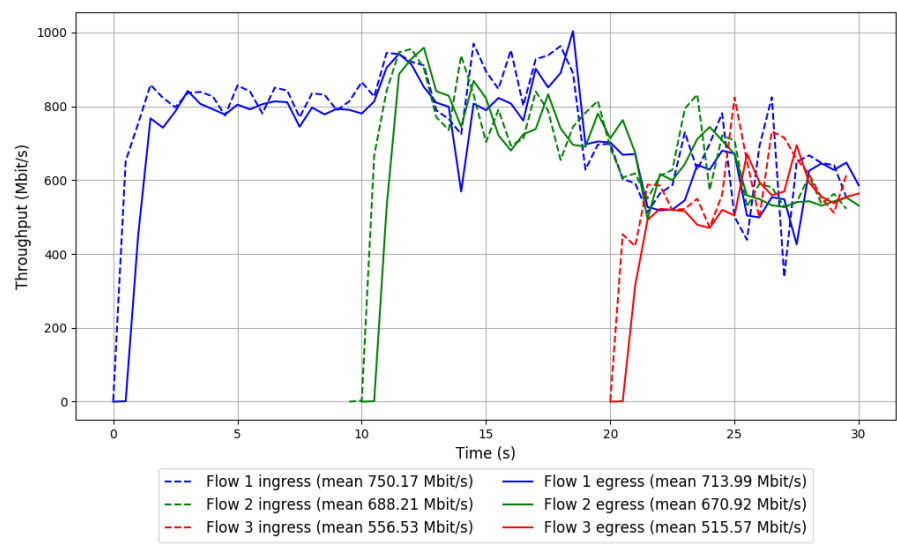
Run 3: Statistics of FillP

Start at: 2018-05-26 03:46:21  
End at: 2018-05-26 03:46:51  
Local clock offset: -0.189 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-05-26 07:36:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1331.70 Mbit/s  
95th percentile per-packet one-way delay: 150.227 ms  
Loss rate: 4.39%  
-- Flow 1:  
Average throughput: 713.99 Mbit/s  
95th percentile per-packet one-way delay: 142.265 ms  
Loss rate: 4.82%  
-- Flow 2:  
Average throughput: 670.92 Mbit/s  
95th percentile per-packet one-way delay: 148.307 ms  
Loss rate: 2.50%  
-- Flow 3:  
Average throughput: 515.57 Mbit/s  
95th percentile per-packet one-way delay: 162.646 ms  
Loss rate: 7.35%



Run 3: Report of FillP — Data Link

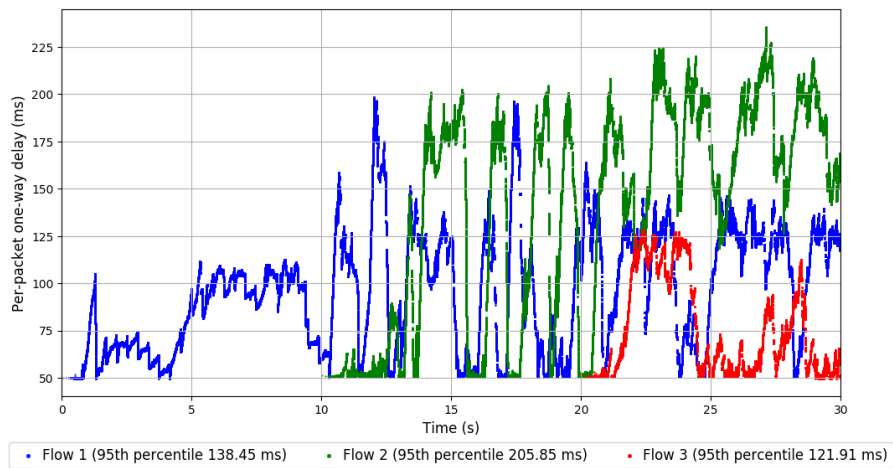
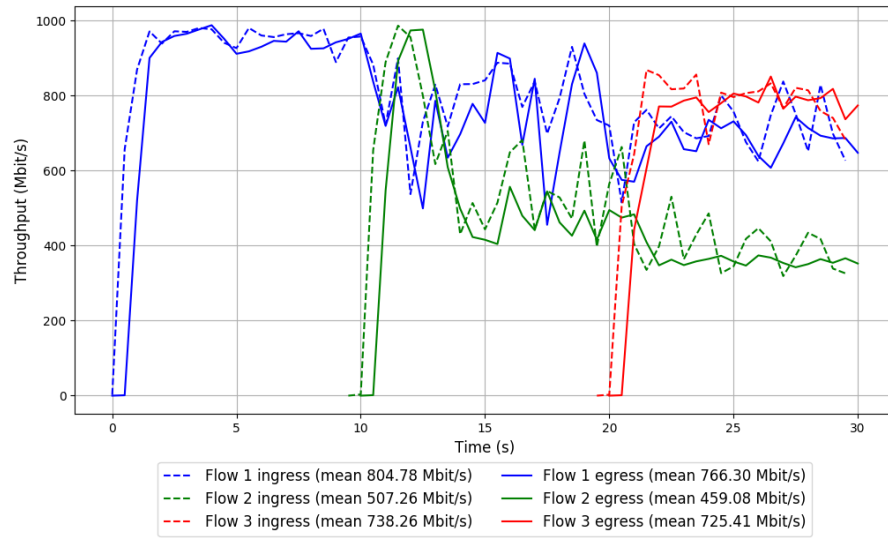


Run 4: Statistics of FillP

Start at: 2018-05-26 04:09:12  
End at: 2018-05-26 04:09:42  
Local clock offset: -0.203 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-05-26 07:36:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1312.90 Mbit/s  
95th percentile per-packet one-way delay: 184.915 ms  
Loss rate: 5.40%  
-- Flow 1:  
Average throughput: 766.30 Mbit/s  
95th percentile per-packet one-way delay: 138.448 ms  
Loss rate: 4.78%  
-- Flow 2:  
Average throughput: 459.08 Mbit/s  
95th percentile per-packet one-way delay: 205.847 ms  
Loss rate: 9.50%  
-- Flow 3:  
Average throughput: 725.41 Mbit/s  
95th percentile per-packet one-way delay: 121.910 ms  
Loss rate: 1.75%

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

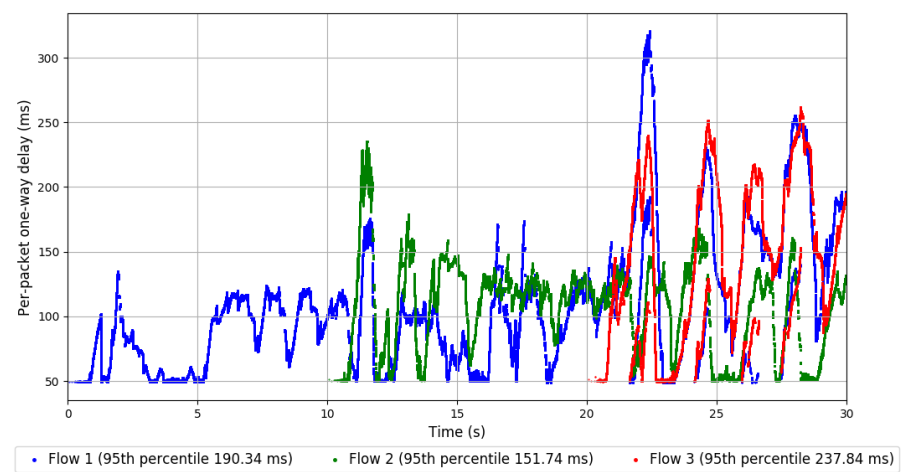
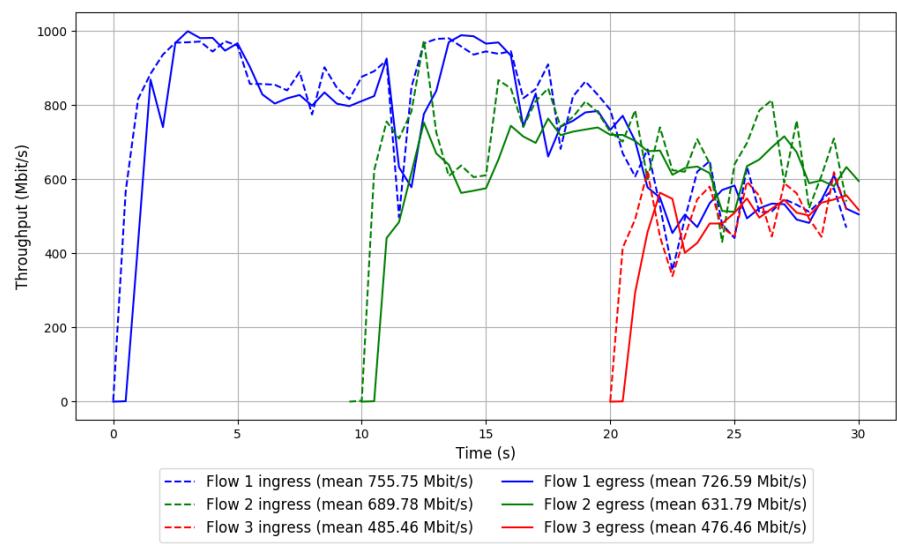


Run 5: Statistics of FillP

Start at: 2018-05-26 04:32:13  
End at: 2018-05-26 04:32:43  
Local clock offset: 0.15 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-05-26 07:37:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1305.12 Mbit/s  
95th percentile per-packet one-way delay: 208.053 ms  
Loss rate: 5.14%  
-- Flow 1:  
Average throughput: 726.59 Mbit/s  
95th percentile per-packet one-way delay: 190.340 ms  
Loss rate: 3.85%  
-- Flow 2:  
Average throughput: 631.79 Mbit/s  
95th percentile per-packet one-way delay: 151.737 ms  
Loss rate: 8.41%  
-- Flow 3:  
Average throughput: 476.46 Mbit/s  
95th percentile per-packet one-way delay: 237.844 ms  
Loss rate: 1.86%

Run 5: Report of FillP — Data Link

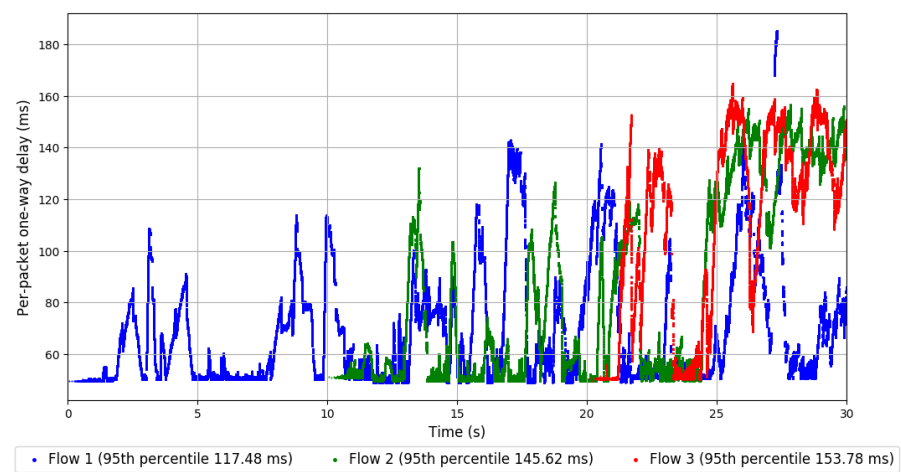
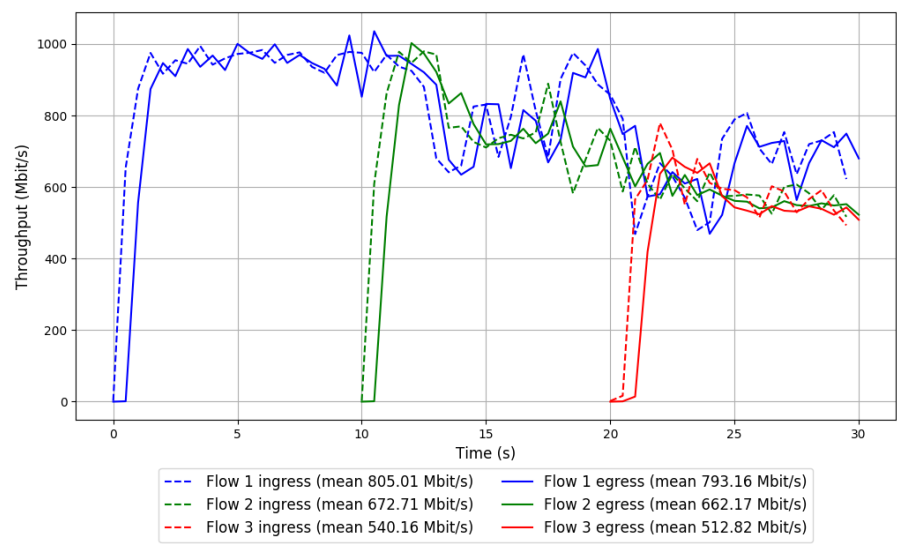


Run 6: Statistics of FillP

Start at: 2018-05-26 04:55:09  
End at: 2018-05-26 04:55:39  
Local clock offset: -0.198 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-05-26 07:39:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1403.65 Mbit/s  
95th percentile per-packet one-way delay: 143.457 ms  
Loss rate: 1.95%  
-- Flow 1:  
Average throughput: 793.16 Mbit/s  
95th percentile per-packet one-way delay: 117.476 ms  
Loss rate: 1.46%  
-- Flow 2:  
Average throughput: 662.17 Mbit/s  
95th percentile per-packet one-way delay: 145.622 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 512.82 Mbit/s  
95th percentile per-packet one-way delay: 153.783 ms  
Loss rate: 5.06%

Run 6: Report of FillP — Data Link



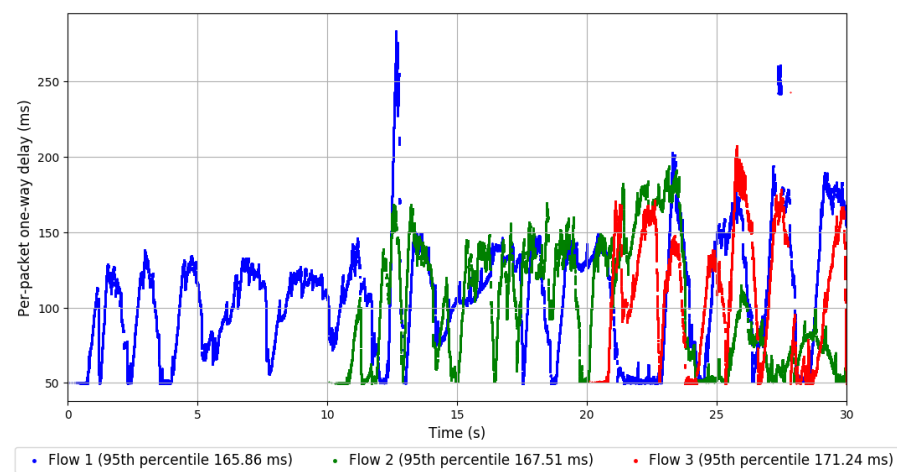
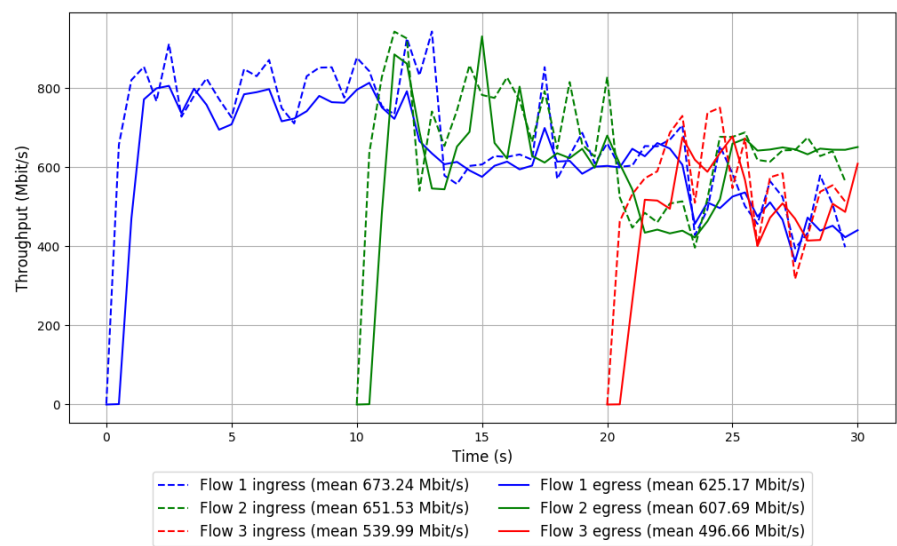
Run 7: Statistics of FillP

Start at: 2018-05-26 05:18:18  
End at: 2018-05-26 05:18:48  
Local clock offset: -0.558 ms  
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-05-26 07:39:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1193.83 Mbit/s  
95th percentile per-packet one-way delay: 167.360 ms  
Loss rate: 7.12%  
-- Flow 1:  
Average throughput: 625.17 Mbit/s  
95th percentile per-packet one-way delay: 165.860 ms  
Loss rate: 7.13%  
-- Flow 2:  
Average throughput: 607.69 Mbit/s  
95th percentile per-packet one-way delay: 167.511 ms  
Loss rate: 6.73%  
-- Flow 3:  
Average throughput: 496.66 Mbit/s  
95th percentile per-packet one-way delay: 171.236 ms  
Loss rate: 8.04%



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-26 05:41:27

End at: 2018-05-26 05:41:57

Local clock offset: -0.218 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-05-26 07:39:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1191.90 Mbit/s

95th percentile per-packet one-way delay: 217.983 ms

Loss rate: 3.13%

-- Flow 1:

Average throughput: 624.96 Mbit/s

95th percentile per-packet one-way delay: 217.633 ms

Loss rate: 3.31%

-- Flow 2:

Average throughput: 543.78 Mbit/s

95th percentile per-packet one-way delay: 233.375 ms

Loss rate: 1.87%

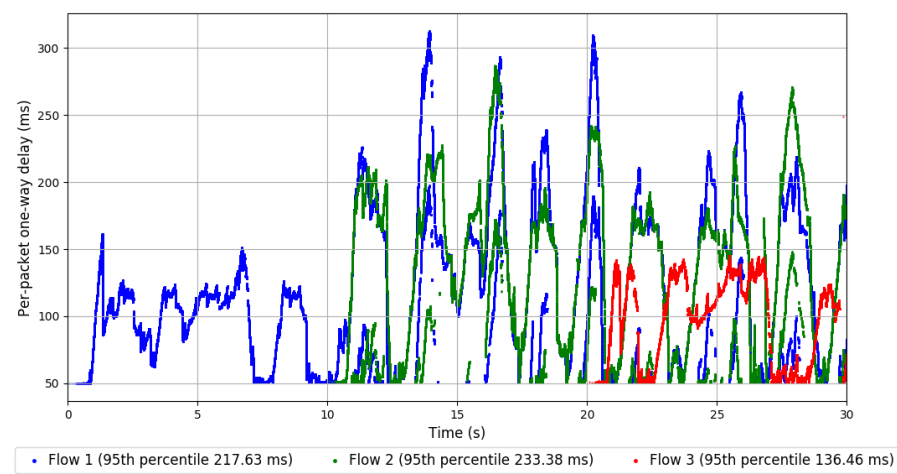
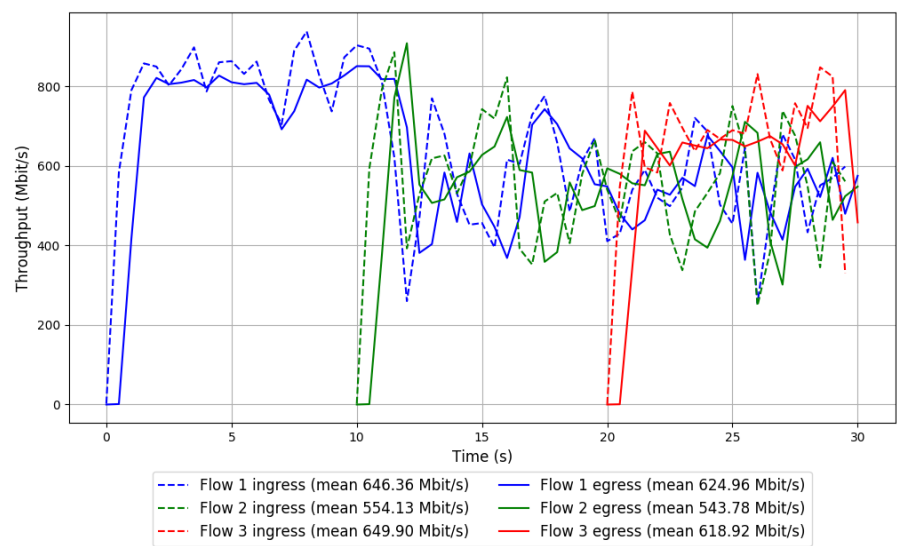
-- Flow 3:

Average throughput: 618.92 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 4.75%

Run 8: Report of FillP — Data Link

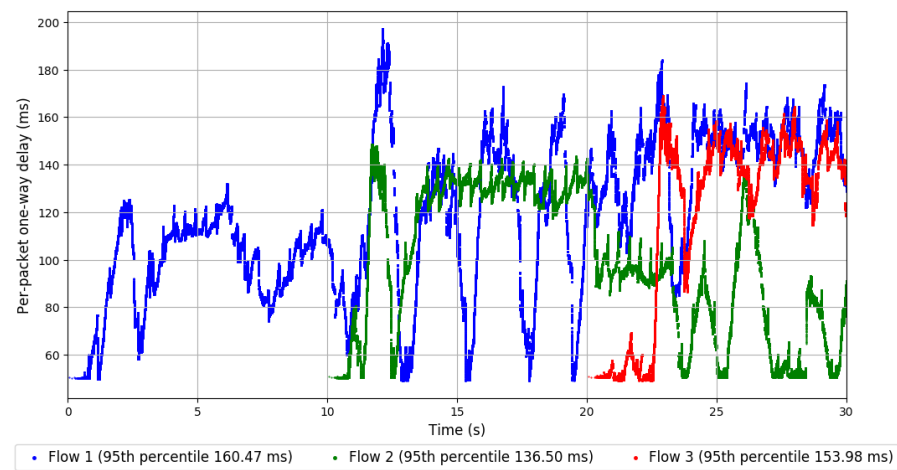
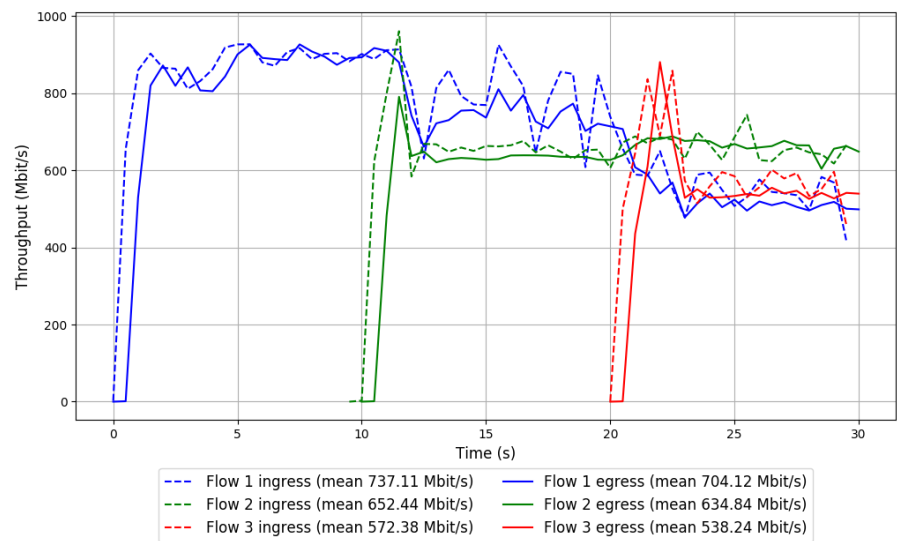


Run 9: Statistics of FillP

Start at: 2018-05-26 06:04:30  
End at: 2018-05-26 06:05:00  
Local clock offset: 0.223 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-05-26 08:00:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1305.25 Mbit/s  
95th percentile per-packet one-way delay: 156.331 ms  
Loss rate: 4.12%  
-- Flow 1:  
Average throughput: 704.12 Mbit/s  
95th percentile per-packet one-way delay: 160.472 ms  
Loss rate: 4.48%  
-- Flow 2:  
Average throughput: 634.84 Mbit/s  
95th percentile per-packet one-way delay: 136.497 ms  
Loss rate: 2.70%  
-- Flow 3:  
Average throughput: 538.24 Mbit/s  
95th percentile per-packet one-way delay: 153.980 ms  
Loss rate: 5.98%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-26 06:27:36

End at: 2018-05-26 06:28:06

Local clock offset: -0.128 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-05-26 08:00:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1225.08 Mbit/s

95th percentile per-packet one-way delay: 195.522 ms

Loss rate: 6.15%

-- Flow 1:

Average throughput: 694.64 Mbit/s

95th percentile per-packet one-way delay: 135.190 ms

Loss rate: 5.22%

-- Flow 2:

Average throughput: 566.33 Mbit/s

95th percentile per-packet one-way delay: 208.025 ms

Loss rate: 7.29%

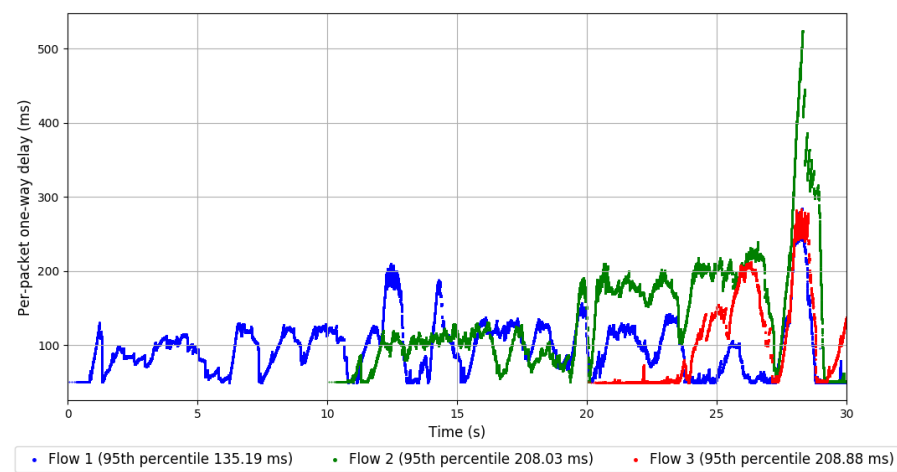
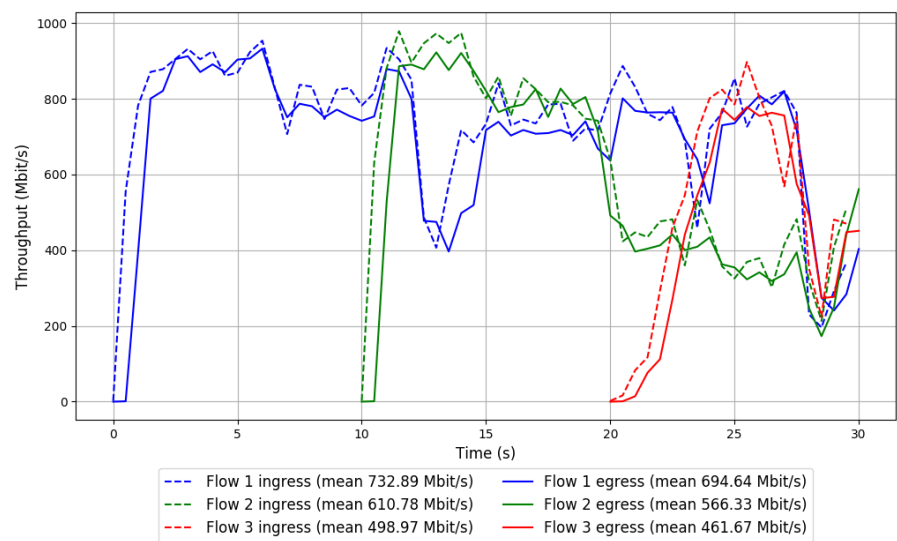
-- Flow 3:

Average throughput: 461.67 Mbit/s

95th percentile per-packet one-way delay: 208.885 ms

Loss rate: 7.47%

Run 10: Report of FillP — Data Link



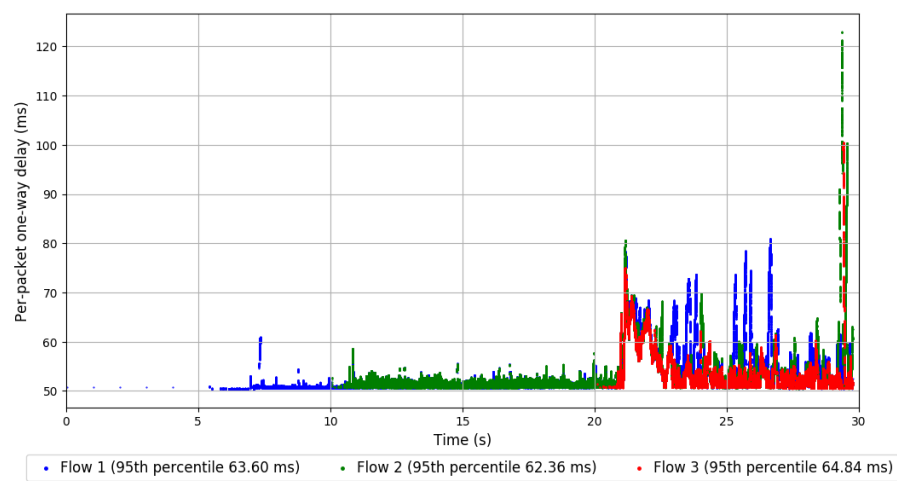
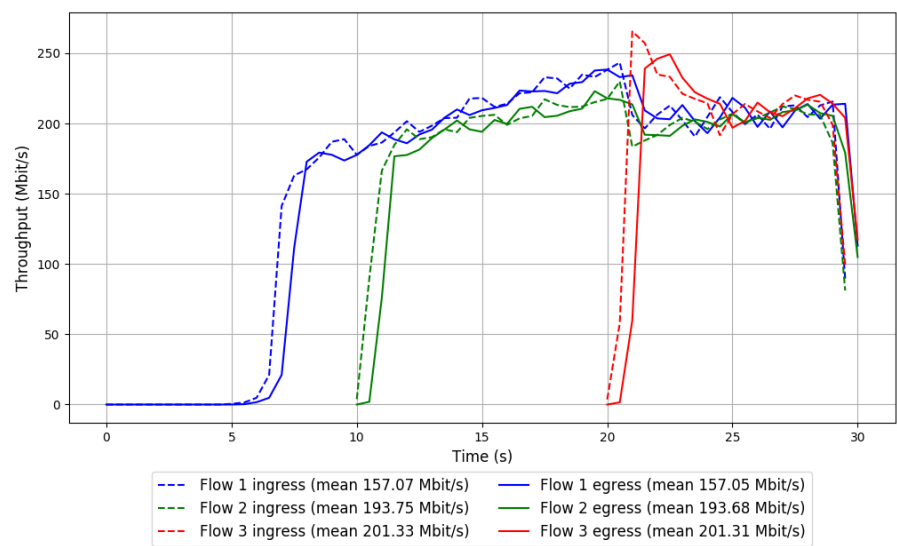
```
Run 1: Statistics of Indigo

Start at: 2018-05-26 02:55:04
End at: 2018-05-26 02:55:34
Local clock offset: -0.27 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-05-26 08:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.98 Mbit/s
95th percentile per-packet one-way delay: 63.395 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 157.05 Mbit/s
95th percentile per-packet one-way delay: 63.604 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 193.68 Mbit/s
95th percentile per-packet one-way delay: 62.359 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 201.31 Mbit/s
95th percentile per-packet one-way delay: 64.842 ms
Loss rate: 0.03%
```



Run 1: Report of Indigo — Data Link

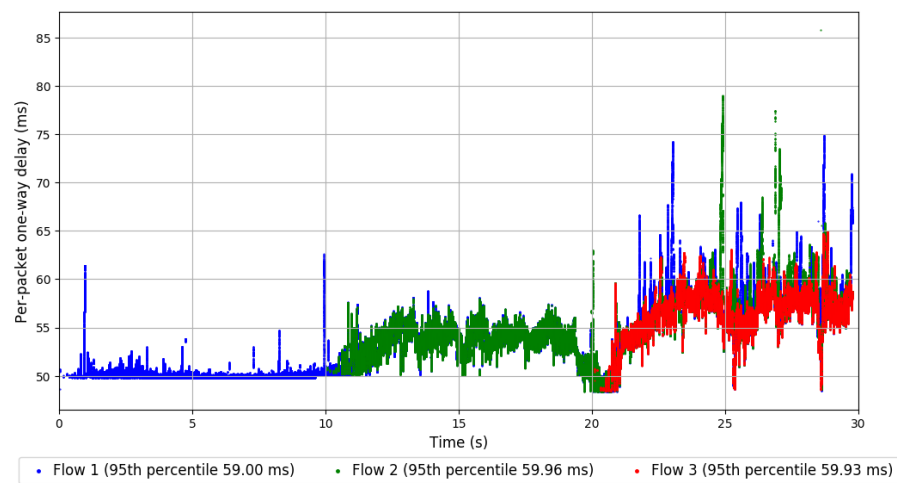
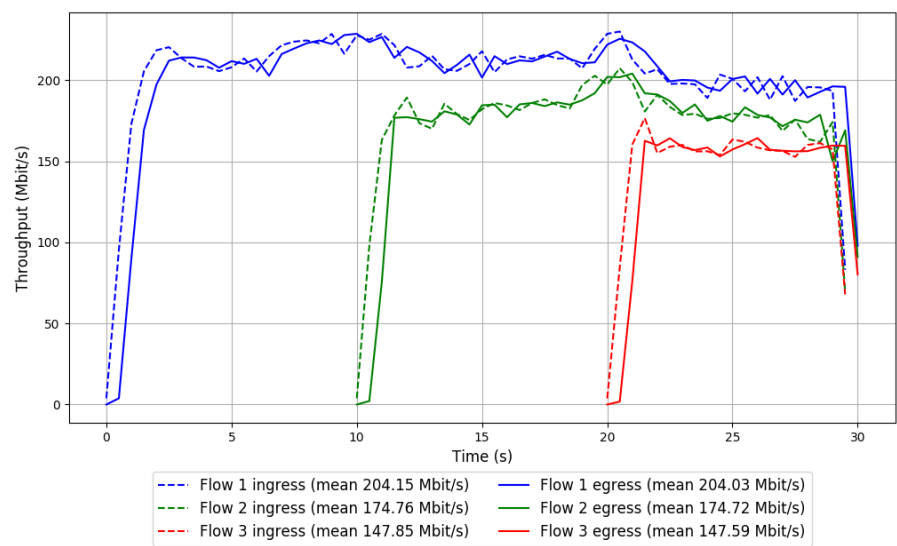


Run 2: Statistics of Indigo

Start at: 2018-05-26 03:18:01  
End at: 2018-05-26 03:18:31  
Local clock offset: 0.087 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 368.01 Mbit/s  
95th percentile per-packet one-way delay: 59.509 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 204.03 Mbit/s  
95th percentile per-packet one-way delay: 59.001 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 174.72 Mbit/s  
95th percentile per-packet one-way delay: 59.963 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 147.59 Mbit/s  
95th percentile per-packet one-way delay: 59.926 ms  
Loss rate: 0.15%

Run 2: Report of Indigo — Data Link

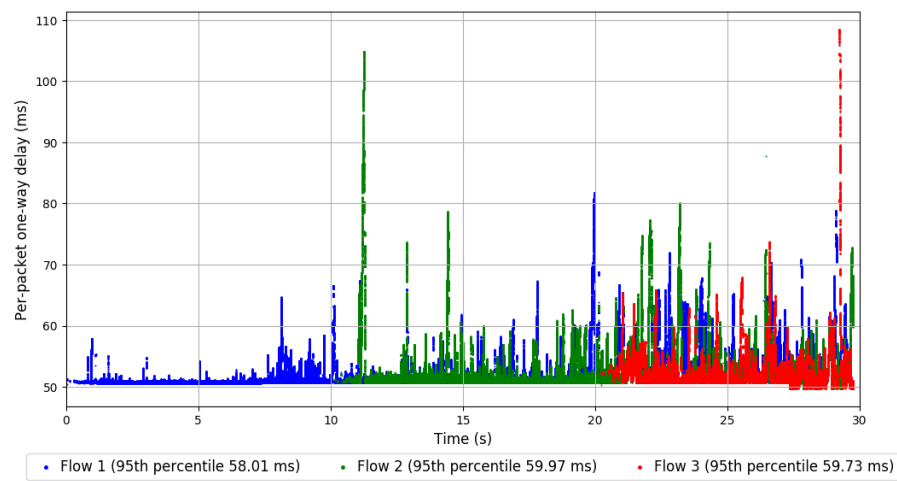
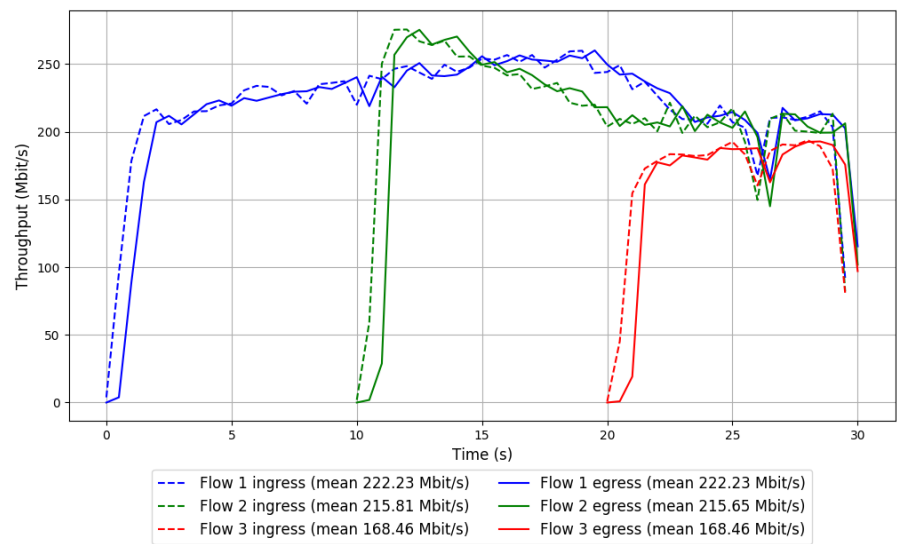


Run 3: Statistics of Indigo

Start at: 2018-05-26 03:40:54  
End at: 2018-05-26 03:41:24  
Local clock offset: -0.204 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 418.55 Mbit/s  
95th percentile per-packet one-way delay: 58.939 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 222.23 Mbit/s  
95th percentile per-packet one-way delay: 58.011 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 215.65 Mbit/s  
95th percentile per-packet one-way delay: 59.973 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 168.46 Mbit/s  
95th percentile per-packet one-way delay: 59.732 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

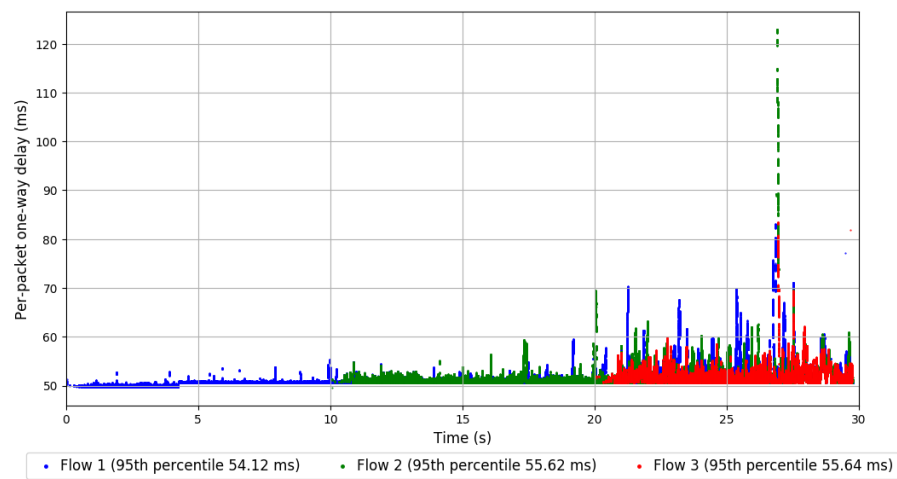
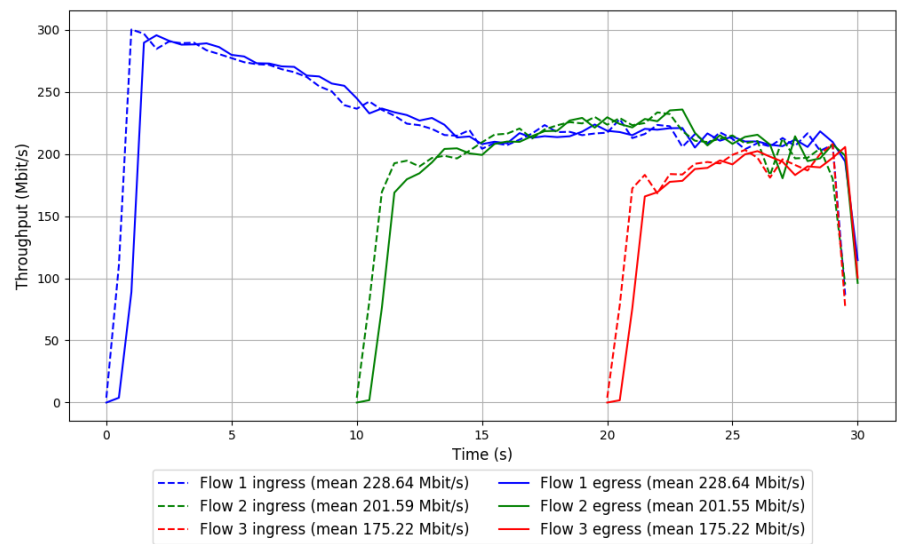


Run 4: Statistics of Indigo

Start at: 2018-05-26 04:03:47  
End at: 2018-05-26 04:04:17  
Local clock offset: -0.22 ms  
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 419.22 Mbit/s  
95th percentile per-packet one-way delay: 54.946 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 228.64 Mbit/s  
95th percentile per-packet one-way delay: 54.123 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 201.55 Mbit/s  
95th percentile per-packet one-way delay: 55.625 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 175.22 Mbit/s  
95th percentile per-packet one-way delay: 55.642 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



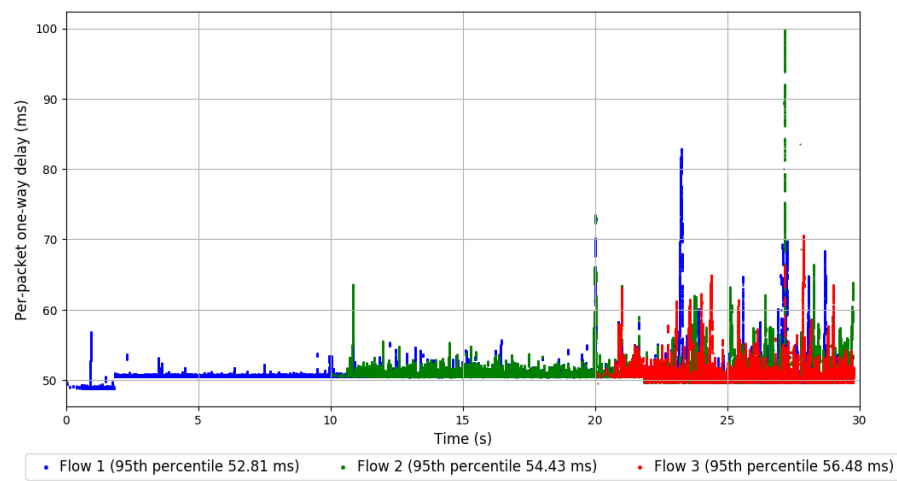
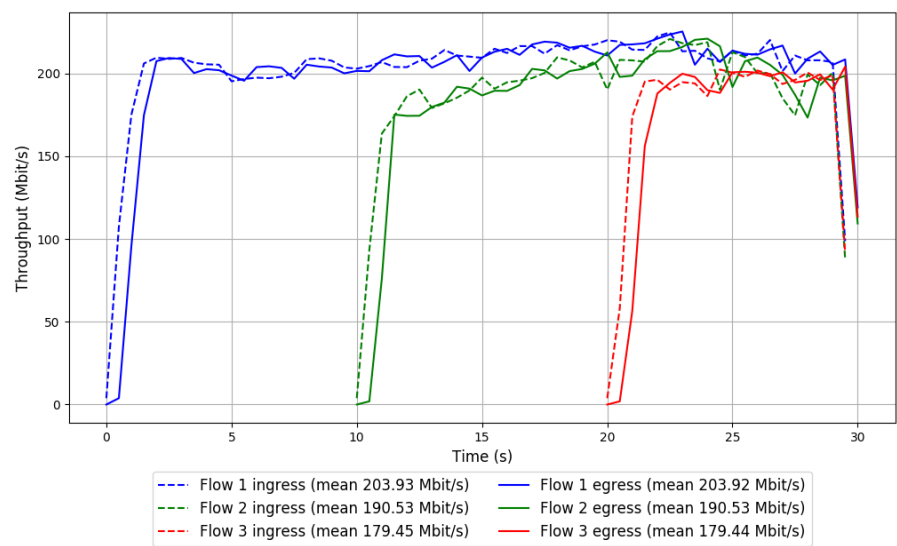
Run 5: Statistics of Indigo

Start at: 2018-05-26 04:26:49  
End at: 2018-05-26 04:27:19  
Local clock offset: -0.251 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 388.67 Mbit/s  
95th percentile per-packet one-way delay: 53.896 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 203.92 Mbit/s  
95th percentile per-packet one-way delay: 52.814 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 190.53 Mbit/s  
95th percentile per-packet one-way delay: 54.426 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 179.44 Mbit/s  
95th percentile per-packet one-way delay: 56.485 ms  
Loss rate: 0.00%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-26 04:49:44

End at: 2018-05-26 04:50:14

Local clock offset: -0.587 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-05-26 08:00:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 417.24 Mbit/s

95th percentile per-packet one-way delay: 56.081 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 230.96 Mbit/s

95th percentile per-packet one-way delay: 55.355 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 197.50 Mbit/s

95th percentile per-packet one-way delay: 55.885 ms

Loss rate: 0.01%

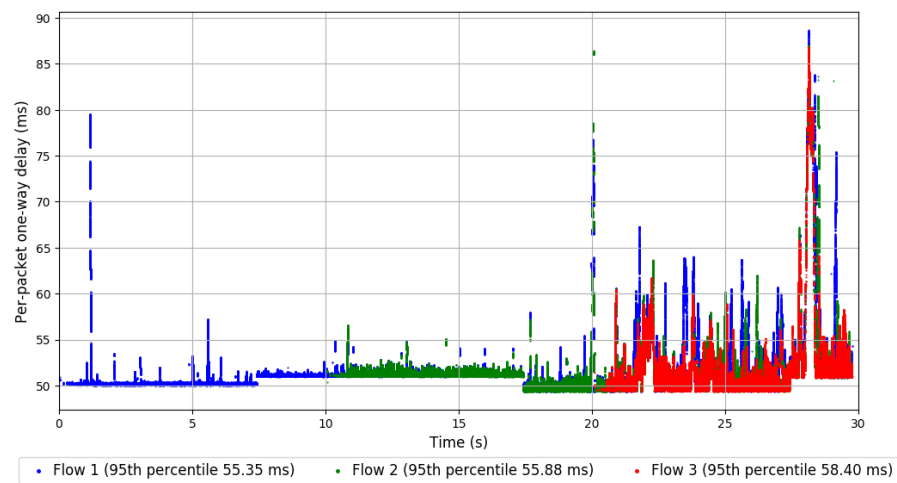
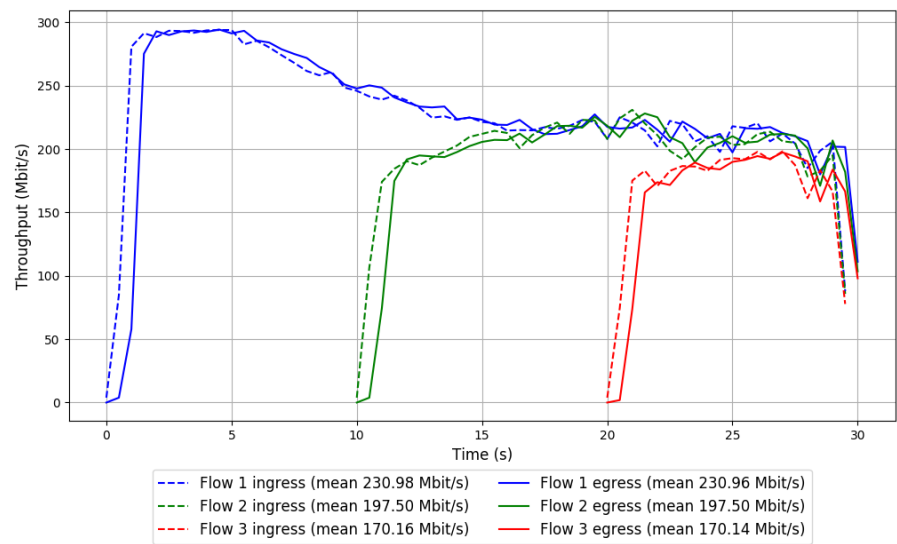
-- Flow 3:

Average throughput: 170.14 Mbit/s

95th percentile per-packet one-way delay: 58.395 ms

Loss rate: 0.02%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-26 05:12:58

End at: 2018-05-26 05:13:28

Local clock offset: -0.237 ms

Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-05-26 08:00:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 398.93 Mbit/s

95th percentile per-packet one-way delay: 57.108 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 205.97 Mbit/s

95th percentile per-packet one-way delay: 54.395 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 208.89 Mbit/s

95th percentile per-packet one-way delay: 60.682 ms

Loss rate: 0.00%

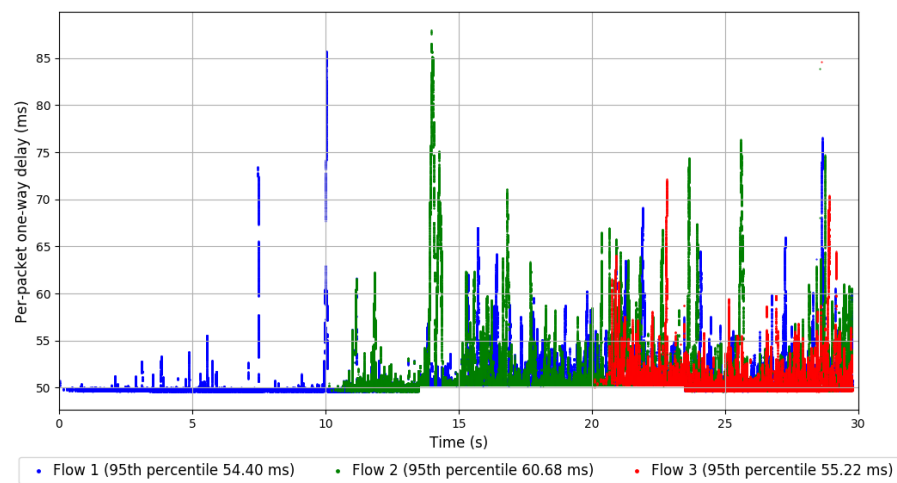
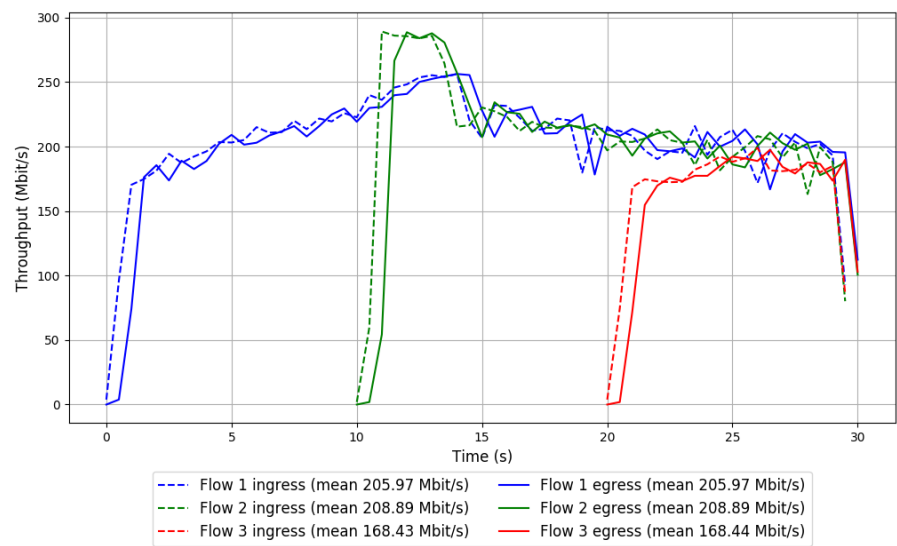
-- Flow 3:

Average throughput: 168.44 Mbit/s

95th percentile per-packet one-way delay: 55.219 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-26 05:36:02

End at: 2018-05-26 05:36:32

Local clock offset: -0.583 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-05-26 08:00:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 397.62 Mbit/s

95th percentile per-packet one-way delay: 54.046 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 212.39 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 194.52 Mbit/s

95th percentile per-packet one-way delay: 53.943 ms

Loss rate: 0.00%

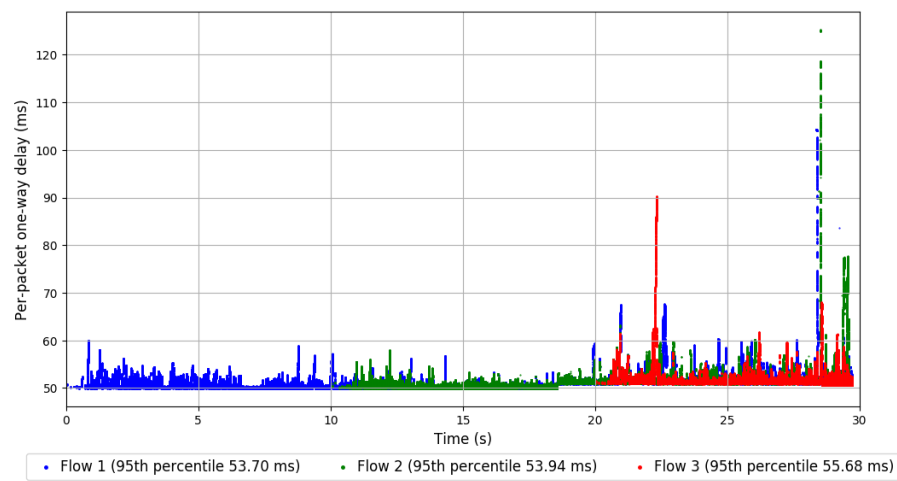
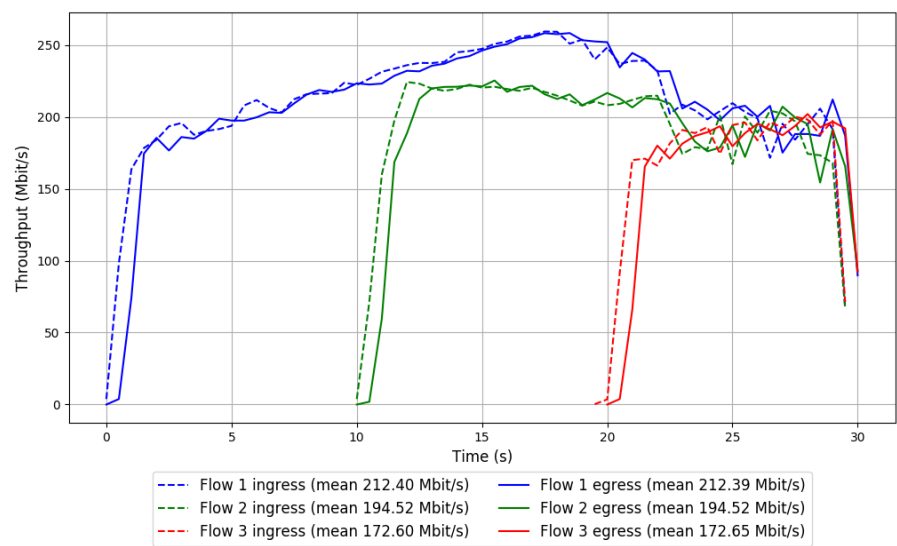
-- Flow 3:

Average throughput: 172.65 Mbit/s

95th percentile per-packet one-way delay: 55.680 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



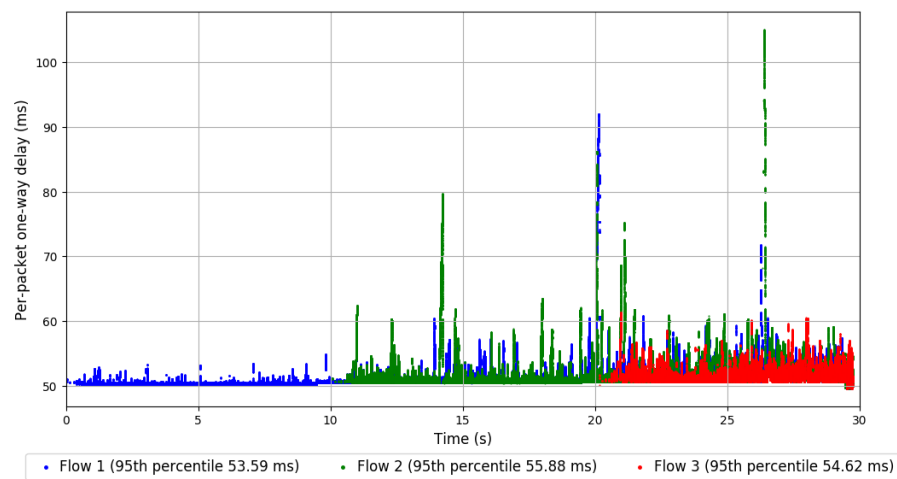
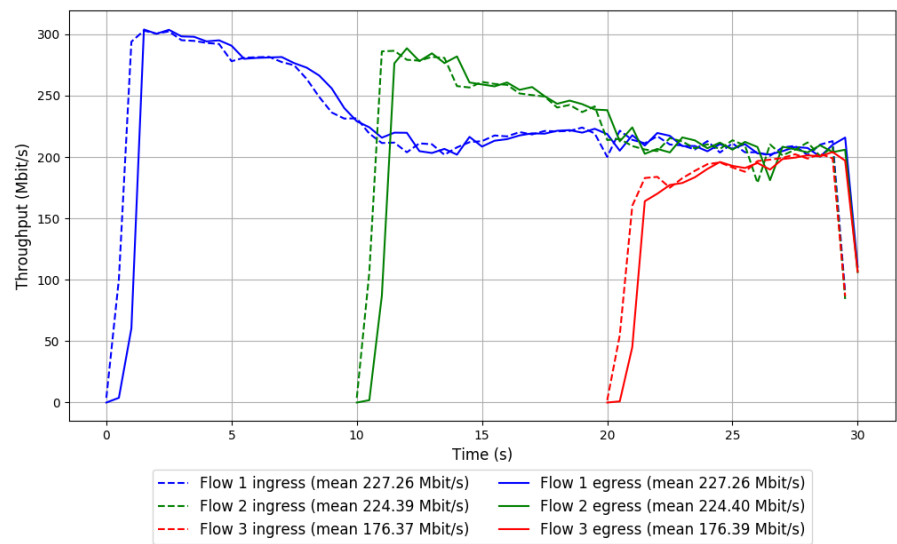
Run 9: Statistics of Indigo

Start at: 2018-05-26 05:59:02  
End at: 2018-05-26 05:59:32  
Local clock offset: -0.174 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 432.87 Mbit/s  
95th percentile per-packet one-way delay: 54.546 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 227.26 Mbit/s  
95th percentile per-packet one-way delay: 53.592 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 224.40 Mbit/s  
95th percentile per-packet one-way delay: 55.883 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 176.39 Mbit/s  
95th percentile per-packet one-way delay: 54.625 ms  
Loss rate: 0.00%



Run 9: Report of Indigo — Data Link

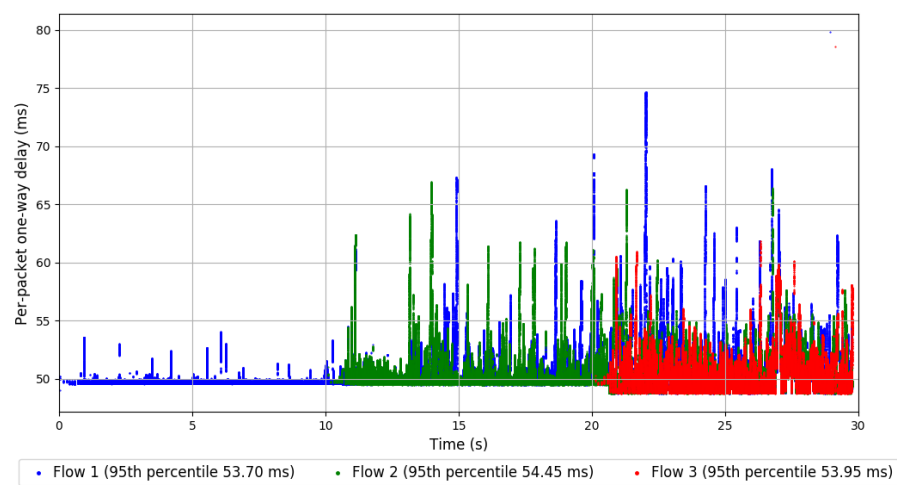
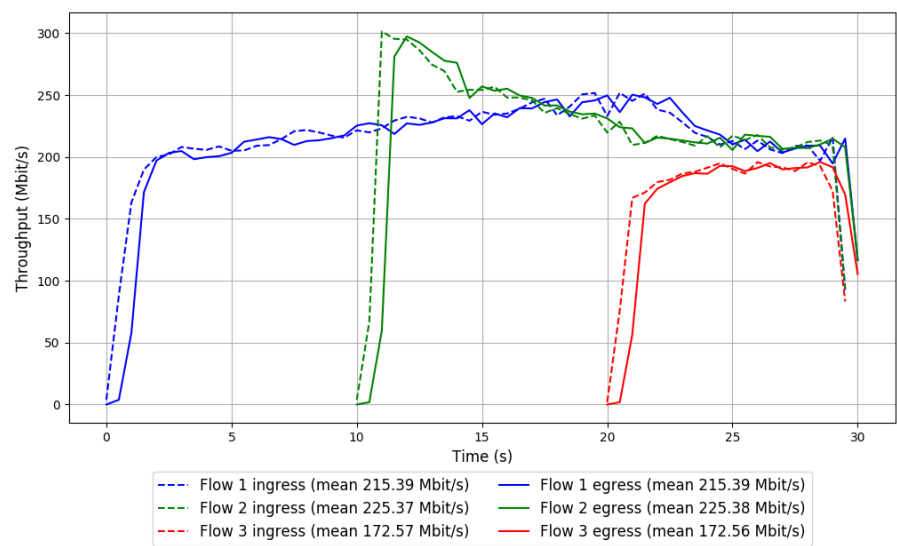


Run 10: Statistics of Indigo

Start at: 2018-05-26 06:22:10  
End at: 2018-05-26 06:22:40  
Local clock offset: -0.128 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 420.62 Mbit/s  
95th percentile per-packet one-way delay: 54.023 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 215.39 Mbit/s  
95th percentile per-packet one-way delay: 53.701 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 225.38 Mbit/s  
95th percentile per-packet one-way delay: 54.445 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 172.56 Mbit/s  
95th percentile per-packet one-way delay: 53.945 ms  
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

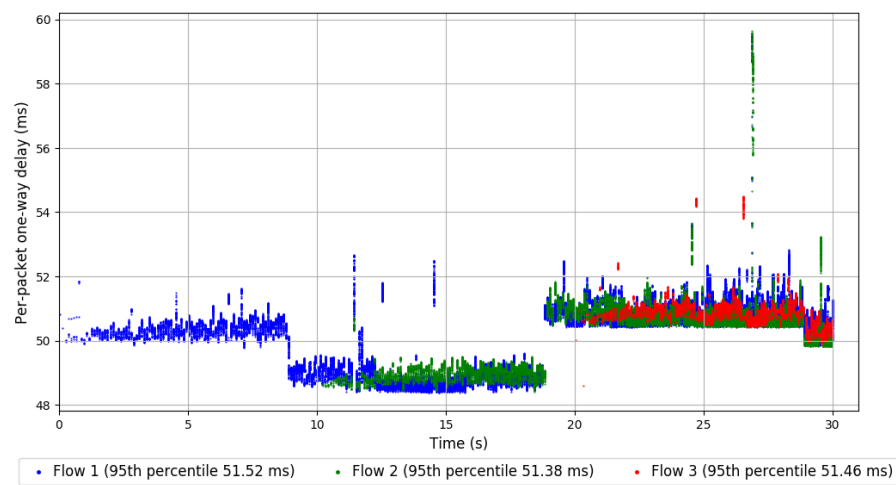
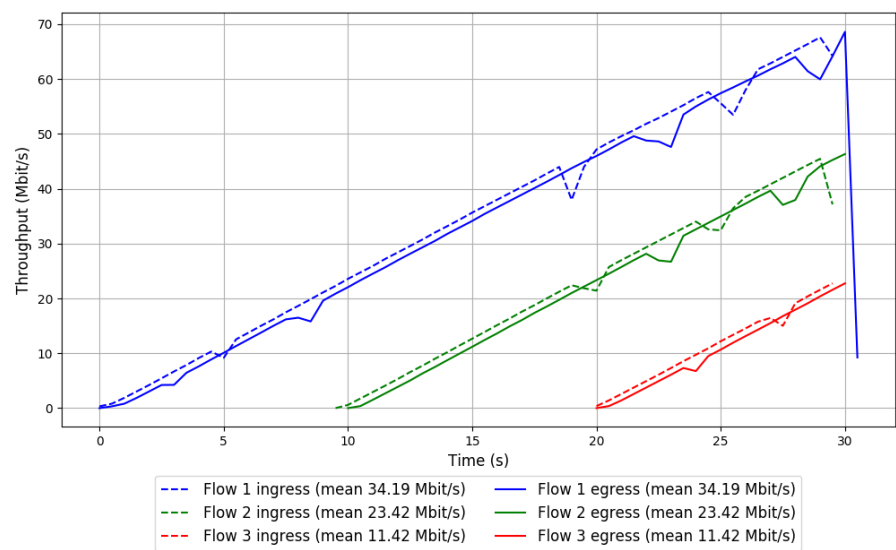


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-26 03:02:22
End at: 2018-05-26 03:02:52
Local clock offset: 0.135 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-05-26 08:00:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.53 Mbit/s
95th percentile per-packet one-way delay: 51.485 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.19 Mbit/s
95th percentile per-packet one-way delay: 51.524 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 51.381 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 51.463 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

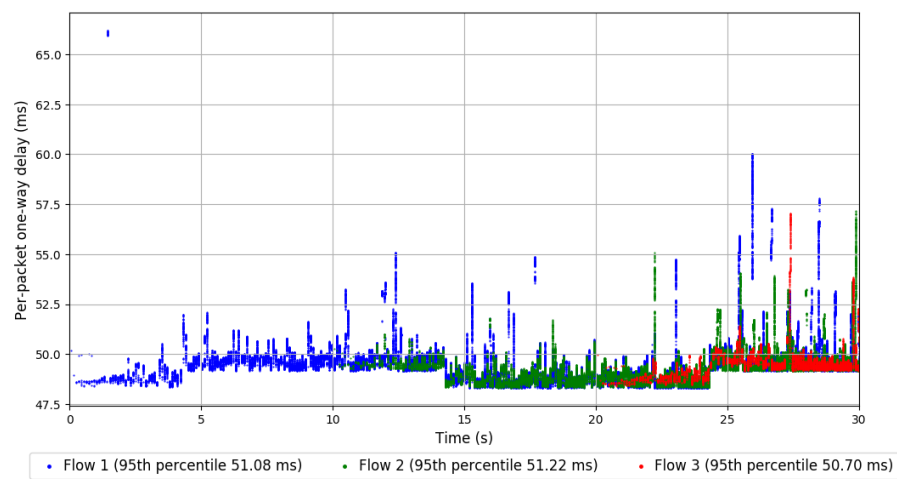
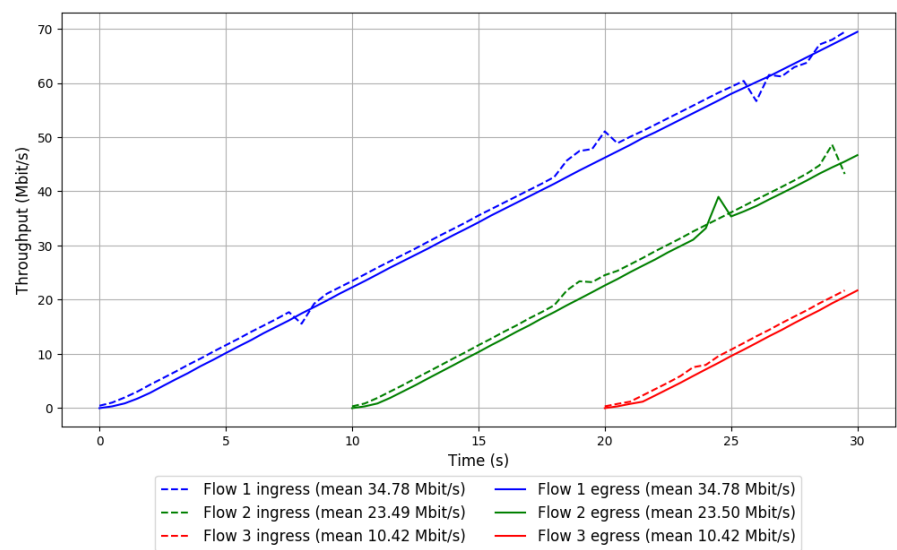


Run 2: Statistics of LEDBAT

Start at: 2018-05-26 03:25:17  
End at: 2018-05-26 03:25:47  
Local clock offset: 0.167 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.85 Mbit/s  
95th percentile per-packet one-way delay: 51.088 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 34.78 Mbit/s  
95th percentile per-packet one-way delay: 51.077 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 23.50 Mbit/s  
95th percentile per-packet one-way delay: 51.221 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 10.42 Mbit/s  
95th percentile per-packet one-way delay: 50.705 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



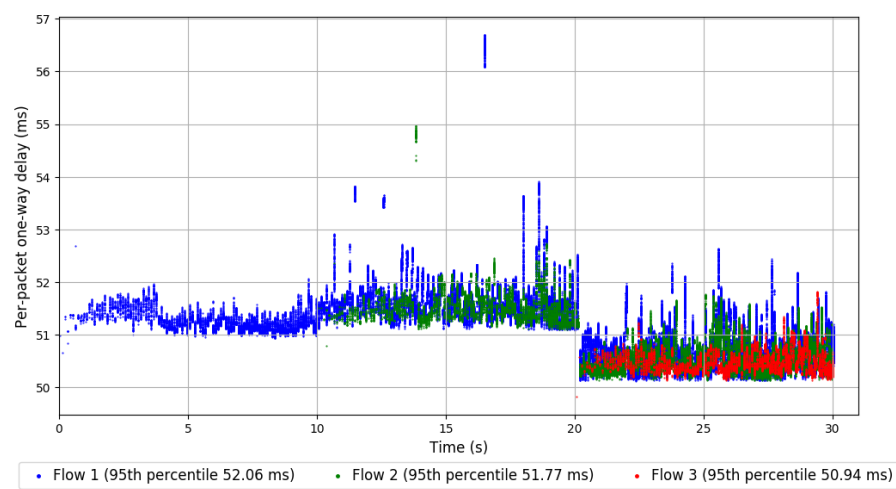
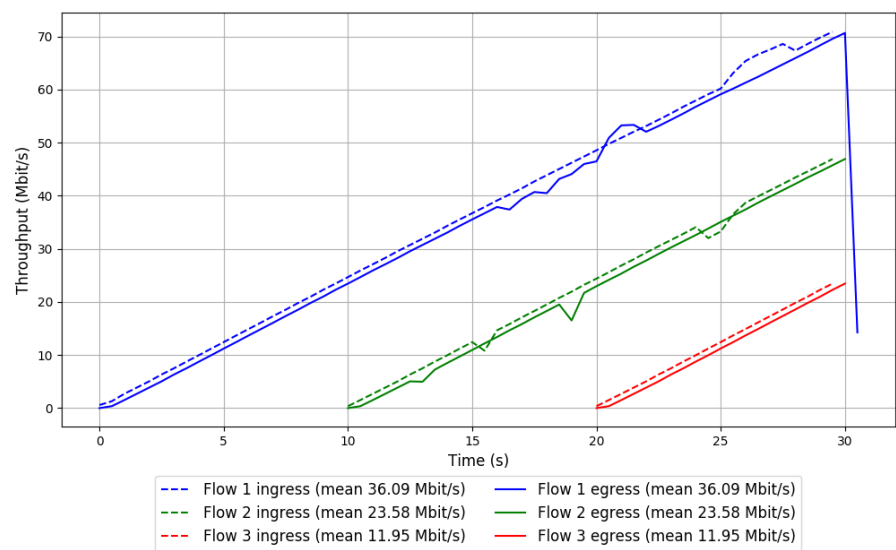
Run 3: Statistics of LEDBAT

Start at: 2018-05-26 03:48:21  
End at: 2018-05-26 03:48:51  
Local clock offset: -0.596 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.71 Mbit/s  
95th percentile per-packet one-way delay: 51.950 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 36.09 Mbit/s  
95th percentile per-packet one-way delay: 52.059 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 23.58 Mbit/s  
95th percentile per-packet one-way delay: 51.767 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.95 Mbit/s  
95th percentile per-packet one-way delay: 50.938 ms  
Loss rate: 0.00%



Run 3: Report of LEDBAT — Data Link

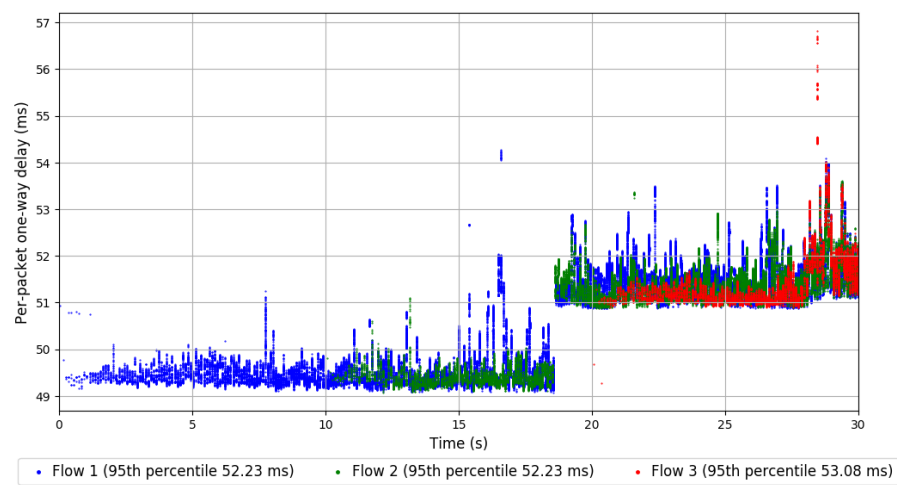
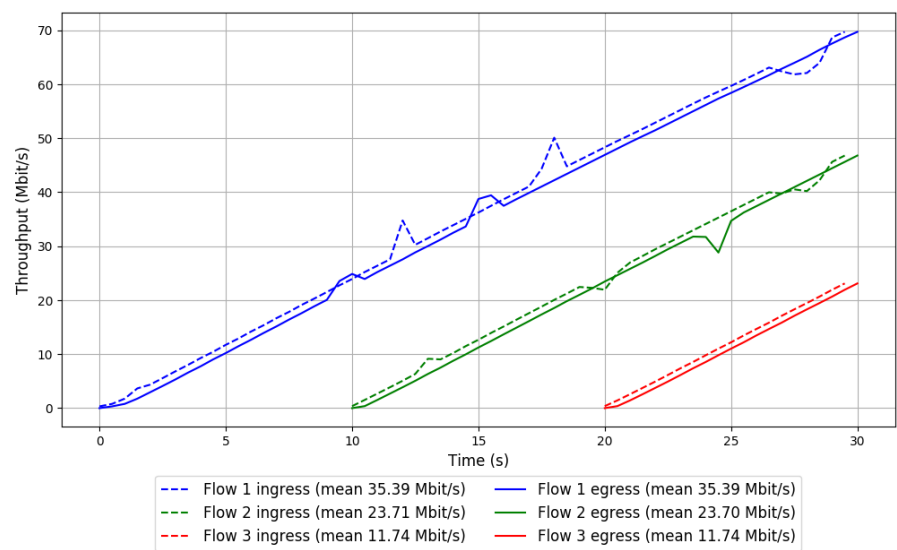


Run 4: Statistics of LEDBAT

Start at: 2018-05-26 04:11:13  
End at: 2018-05-26 04:11:43  
Local clock offset: -0.602 ms  
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.05 Mbit/s  
95th percentile per-packet one-way delay: 52.271 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 35.39 Mbit/s  
95th percentile per-packet one-way delay: 52.233 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 23.70 Mbit/s  
95th percentile per-packet one-way delay: 52.226 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.74 Mbit/s  
95th percentile per-packet one-way delay: 53.082 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

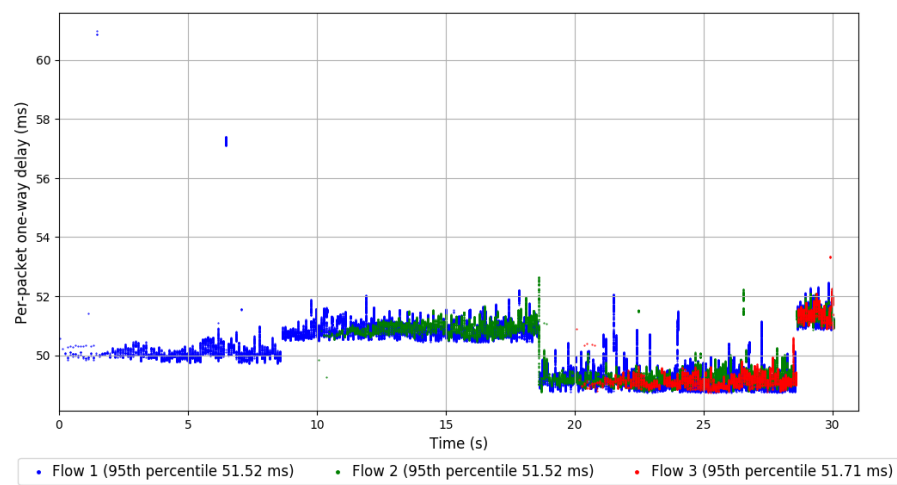
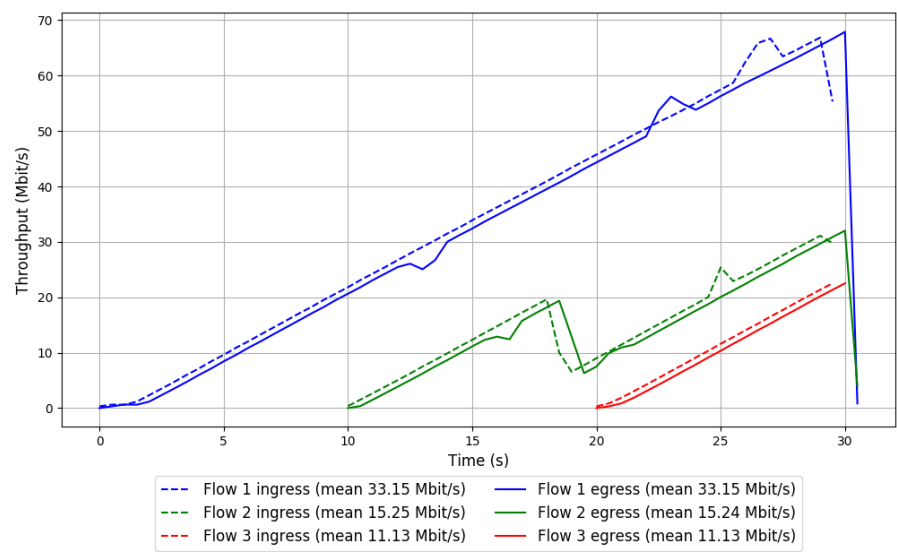


Run 5: Statistics of LEDBAT

Start at: 2018-05-26 04:34:13  
End at: 2018-05-26 04:34:43  
Local clock offset: -0.25 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.99 Mbit/s  
95th percentile per-packet one-way delay: 51.534 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 33.15 Mbit/s  
95th percentile per-packet one-way delay: 51.517 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 15.24 Mbit/s  
95th percentile per-packet one-way delay: 51.515 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 11.13 Mbit/s  
95th percentile per-packet one-way delay: 51.711 ms  
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-26 04:57:12

End at: 2018-05-26 04:57:42

Local clock offset: -0.193 ms

Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2018-05-26 08:00:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.68 Mbit/s

95th percentile per-packet one-way delay: 51.699 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.45 Mbit/s

95th percentile per-packet one-way delay: 51.793 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.83 Mbit/s

95th percentile per-packet one-way delay: 51.494 ms

Loss rate: 0.00%

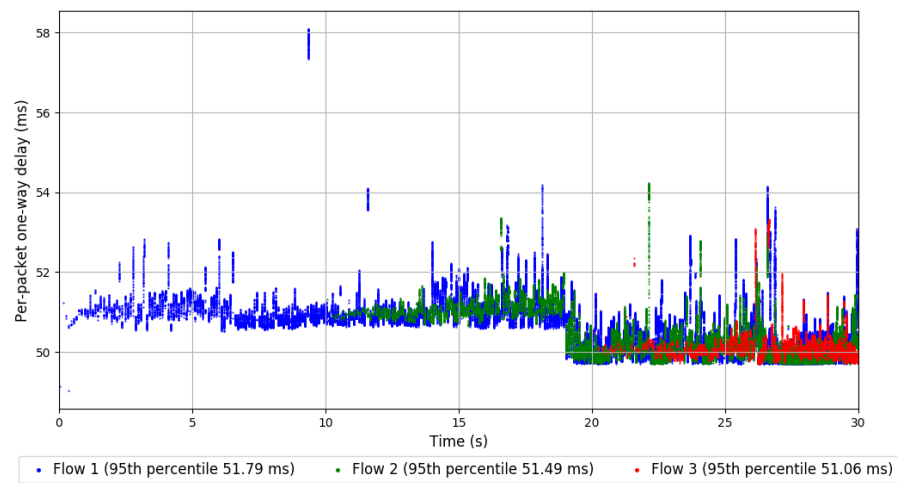
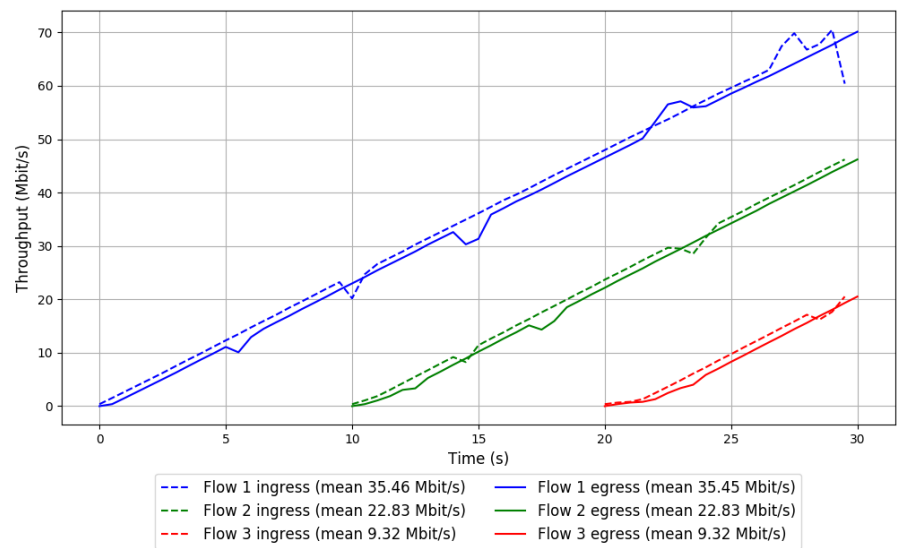
-- Flow 3:

Average throughput: 9.32 Mbit/s

95th percentile per-packet one-way delay: 51.058 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-26 05:20:14

End at: 2018-05-26 05:20:44

Local clock offset: -0.19 ms

Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2018-05-26 08:00:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 47.56 Mbit/s

95th percentile per-packet one-way delay: 51.764 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 28.21 Mbit/s

95th percentile per-packet one-way delay: 51.819 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.37 Mbit/s

95th percentile per-packet one-way delay: 51.724 ms

Loss rate: 0.00%

-- Flow 3:

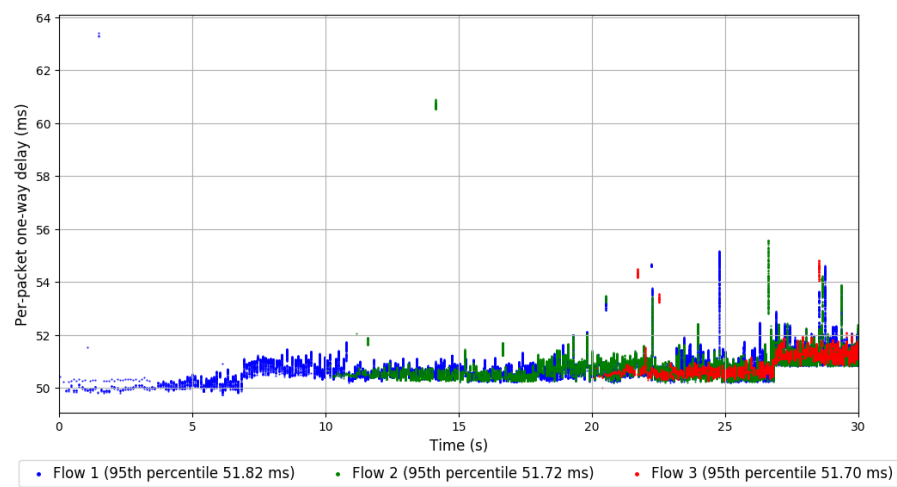
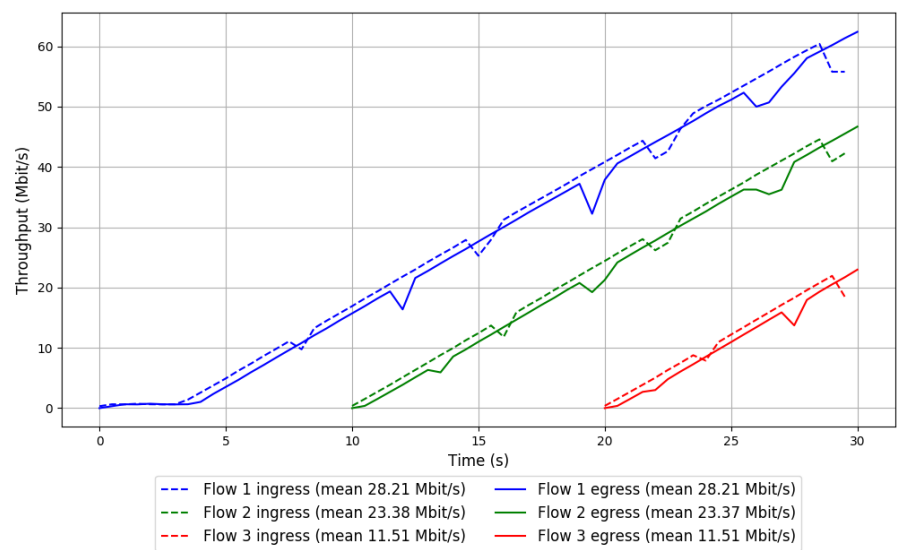
Average throughput: 11.51 Mbit/s

95th percentile per-packet one-way delay: 51.700 ms

Loss rate: 0.00%



Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-26 05:43:23

End at: 2018-05-26 05:43:53

Local clock offset: -0.198 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-05-26 08:00:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 52.432 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 35.02 Mbit/s

95th percentile per-packet one-way delay: 52.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.53 Mbit/s

95th percentile per-packet one-way delay: 52.237 ms

Loss rate: 0.00%

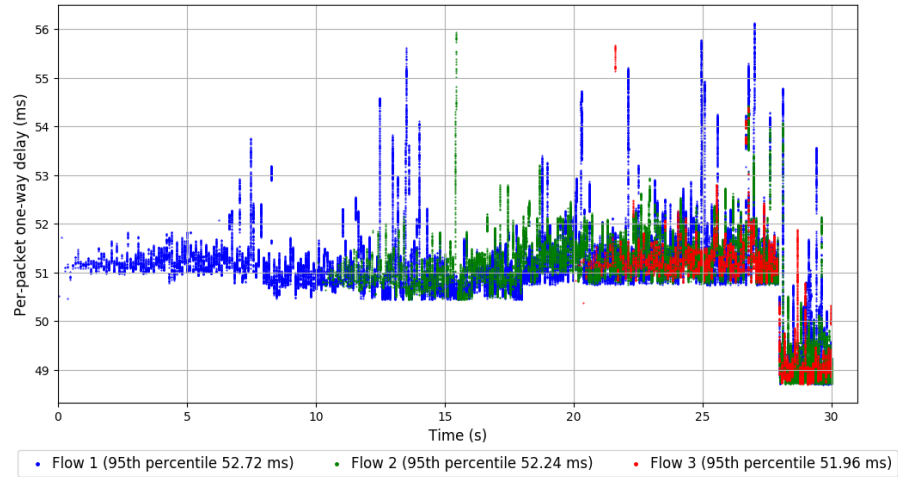
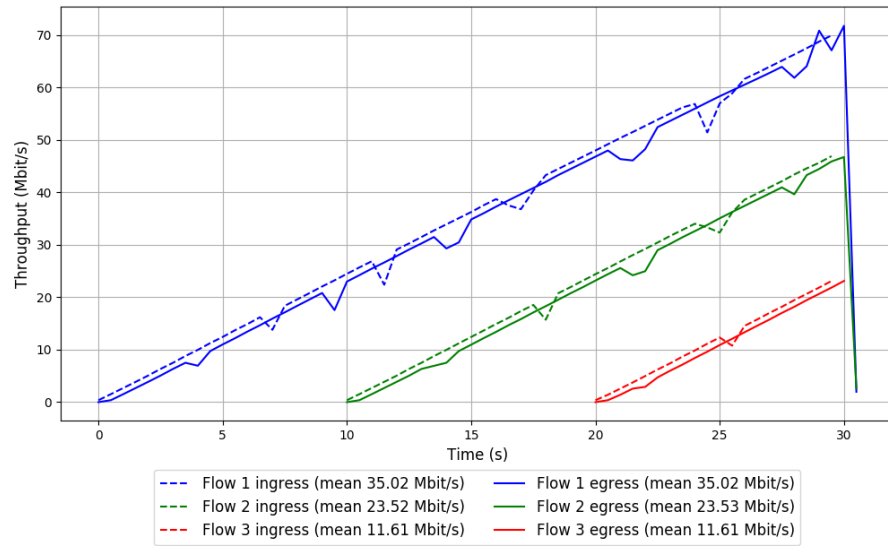
-- Flow 3:

Average throughput: 11.61 Mbit/s

95th percentile per-packet one-way delay: 51.956 ms

Loss rate: 0.00%

## Run 8: Report of LEDBAT — Data Link

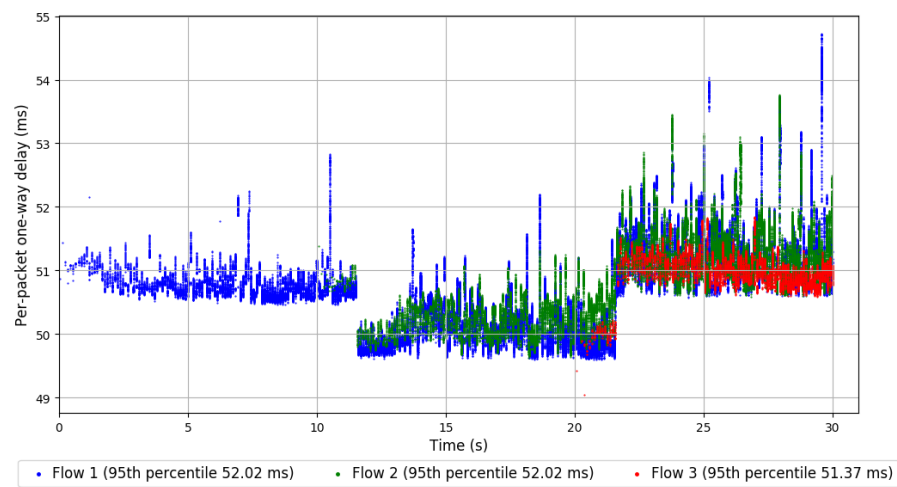
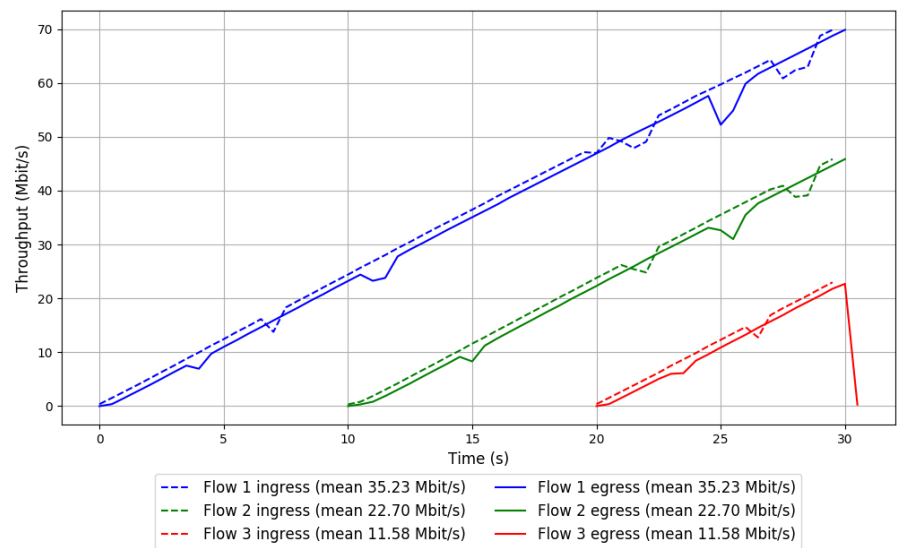


Run 9: Statistics of LEDBAT

Start at: 2018-05-26 06:06:30  
End at: 2018-05-26 06:07:00  
Local clock offset: -0.152 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.15 Mbit/s  
95th percentile per-packet one-way delay: 51.985 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 35.23 Mbit/s  
95th percentile per-packet one-way delay: 52.024 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 22.70 Mbit/s  
95th percentile per-packet one-way delay: 52.025 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.58 Mbit/s  
95th percentile per-packet one-way delay: 51.370 ms  
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

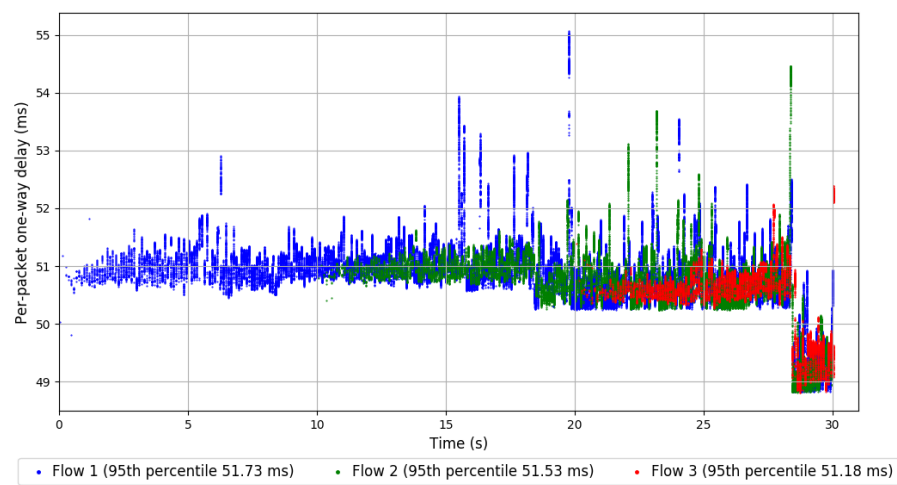
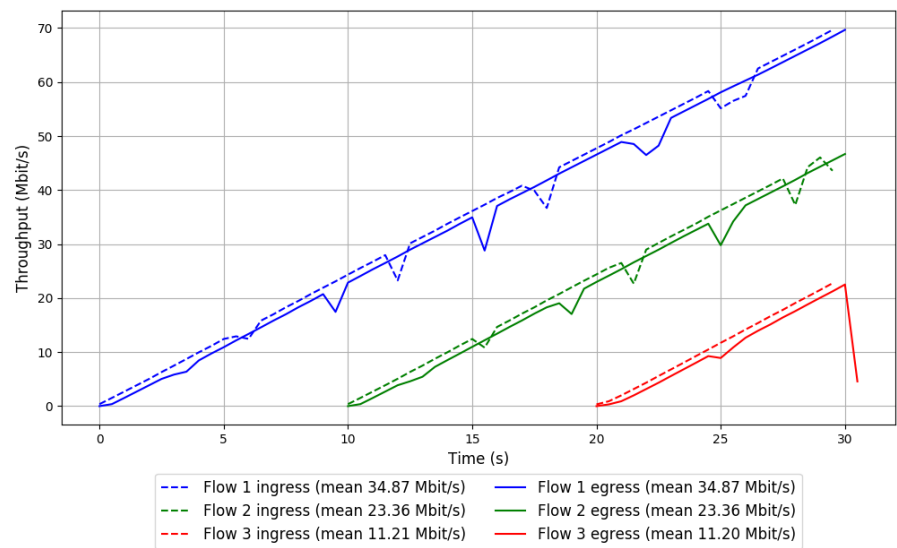


Run 10: Statistics of LEDBAT

Start at: 2018-05-26 06:29:33  
End at: 2018-05-26 06:30:03  
Local clock offset: -0.159 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.06 Mbit/s  
95th percentile per-packet one-way delay: 51.677 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 34.87 Mbit/s  
95th percentile per-packet one-way delay: 51.734 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 23.36 Mbit/s  
95th percentile per-packet one-way delay: 51.526 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 11.20 Mbit/s  
95th percentile per-packet one-way delay: 51.181 ms  
Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link



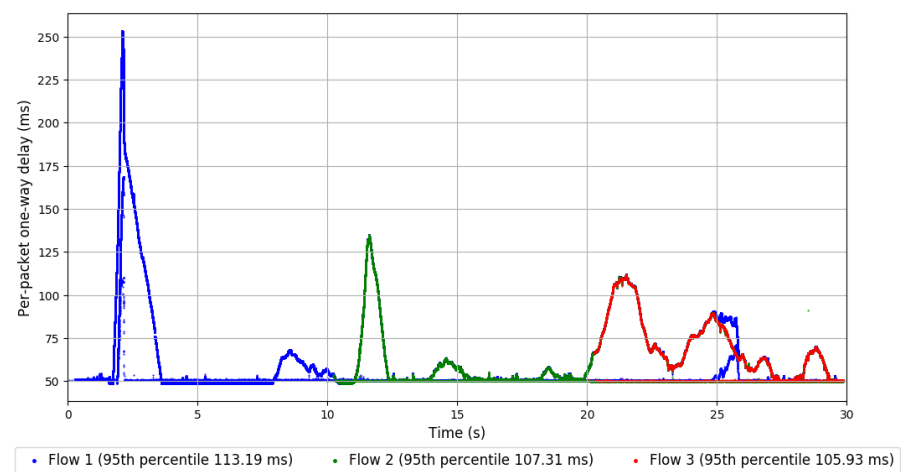
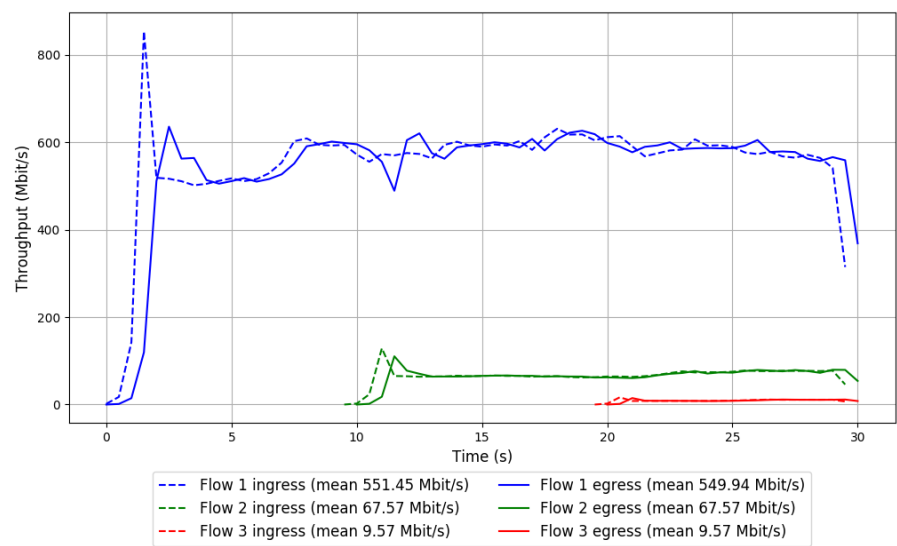
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-26 02:51:59  
End at: 2018-05-26 02:52:29  
Local clock offset: -0.241 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 598.10 Mbit/s  
95th percentile per-packet one-way delay: 111.517 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 549.94 Mbit/s  
95th percentile per-packet one-way delay: 113.193 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 67.57 Mbit/s  
95th percentile per-packet one-way delay: 107.315 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 9.57 Mbit/s  
95th percentile per-packet one-way delay: 105.930 ms  
Loss rate: 0.00%



Run 1: Report of PCC-Allegro — Data Link

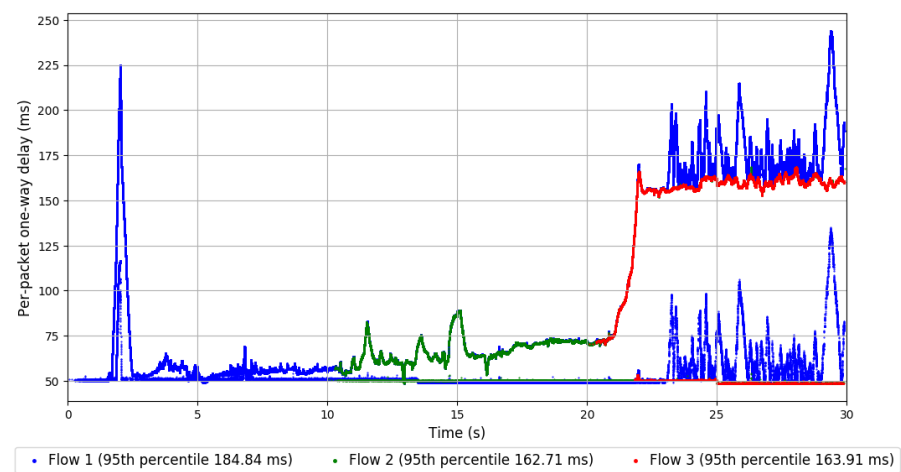
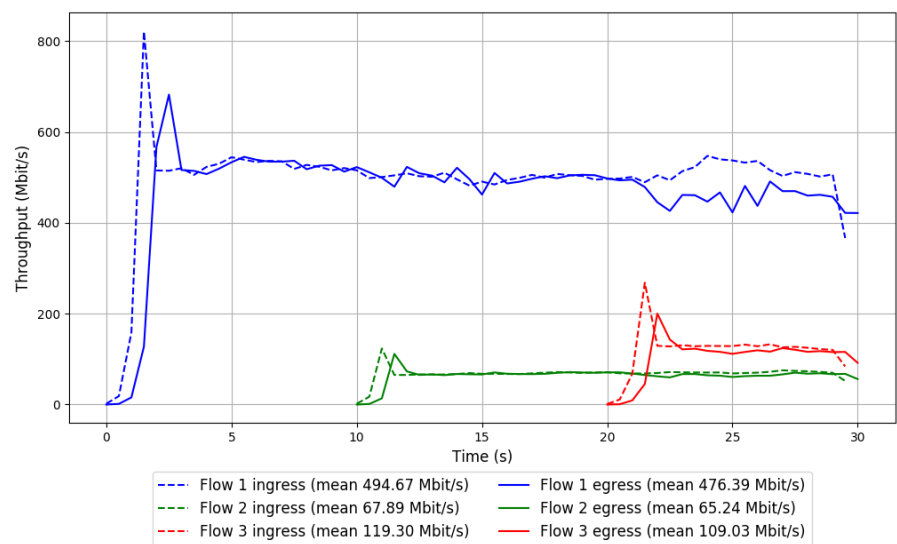


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-26 03:14:56  
End at: 2018-05-26 03:15:26  
Local clock offset: -0.219 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 555.51 Mbit/s  
95th percentile per-packet one-way delay: 181.942 ms  
Loss rate: 4.06%  
-- Flow 1:  
Average throughput: 476.39 Mbit/s  
95th percentile per-packet one-way delay: 184.836 ms  
Loss rate: 3.70%  
-- Flow 2:  
Average throughput: 65.24 Mbit/s  
95th percentile per-packet one-way delay: 162.708 ms  
Loss rate: 3.87%  
-- Flow 3:  
Average throughput: 109.03 Mbit/s  
95th percentile per-packet one-way delay: 163.908 ms  
Loss rate: 8.80%

Run 2: Report of PCC-Allegro — Data Link

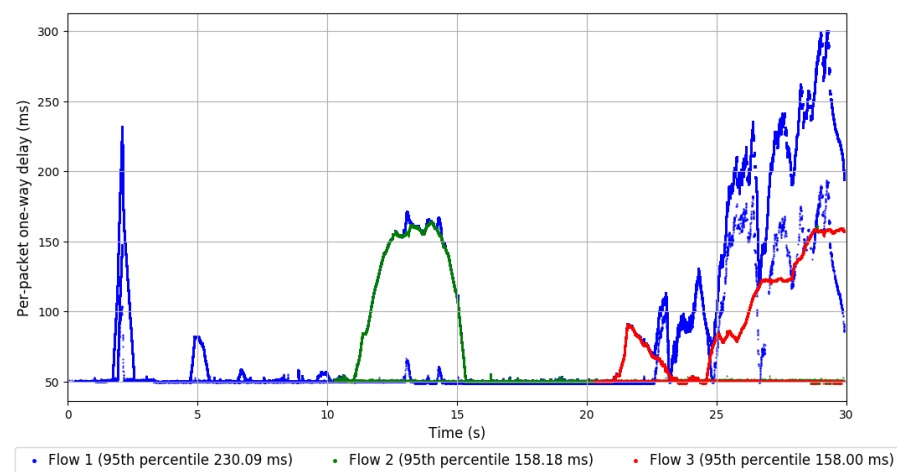
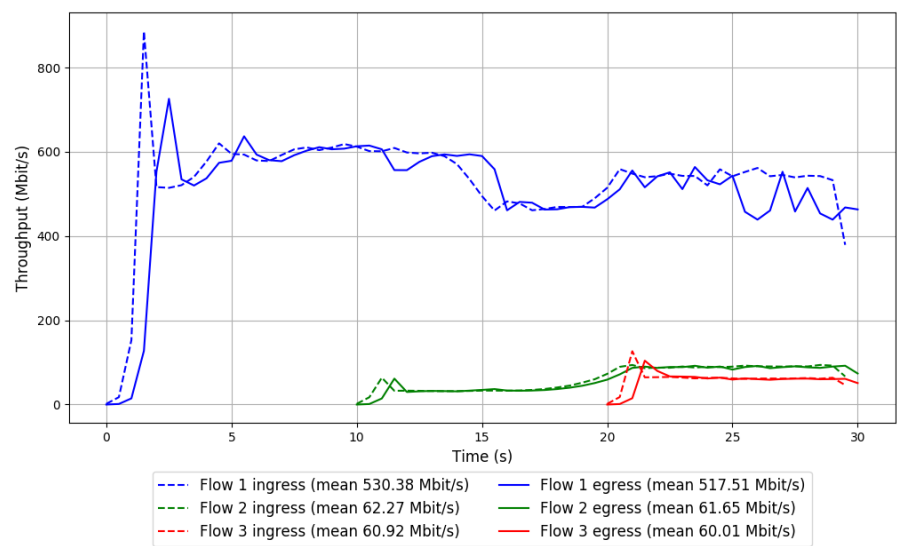


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-26 03:37:48  
End at: 2018-05-26 03:38:18  
Local clock offset: -0.228 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 578.24 Mbit/s  
95th percentile per-packet one-way delay: 226.991 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 517.51 Mbit/s  
95th percentile per-packet one-way delay: 230.088 ms  
Loss rate: 2.43%  
-- Flow 2:  
Average throughput: 61.65 Mbit/s  
95th percentile per-packet one-way delay: 158.180 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 60.01 Mbit/s  
95th percentile per-packet one-way delay: 157.997 ms  
Loss rate: 1.48%

Run 3: Report of PCC-Allegro — Data Link

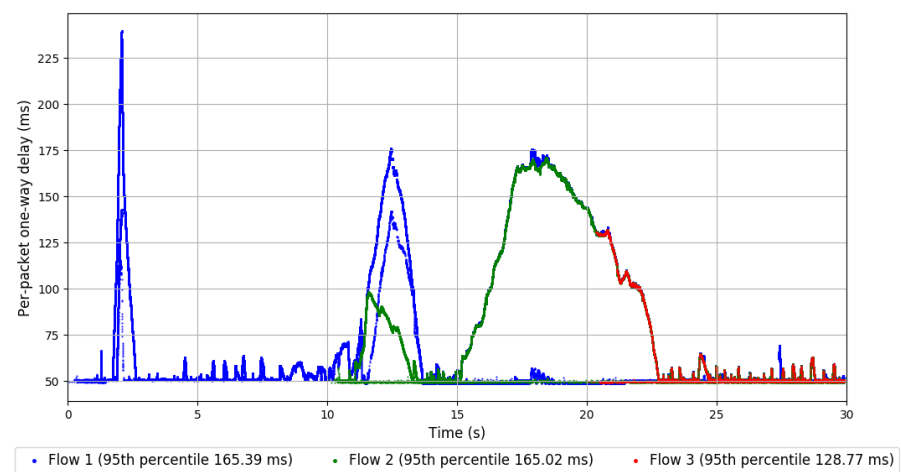
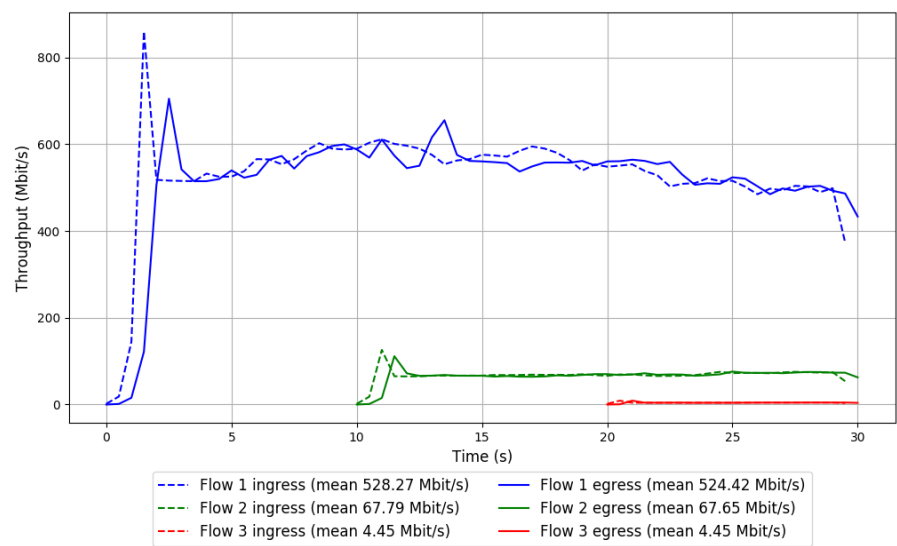


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-26 04:00:50  
End at: 2018-05-26 04:01:20  
Local clock offset: 0.151 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 570.86 Mbit/s  
95th percentile per-packet one-way delay: 165.345 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 524.42 Mbit/s  
95th percentile per-packet one-way delay: 165.391 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 67.65 Mbit/s  
95th percentile per-packet one-way delay: 165.018 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 4.45 Mbit/s  
95th percentile per-packet one-way delay: 128.770 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



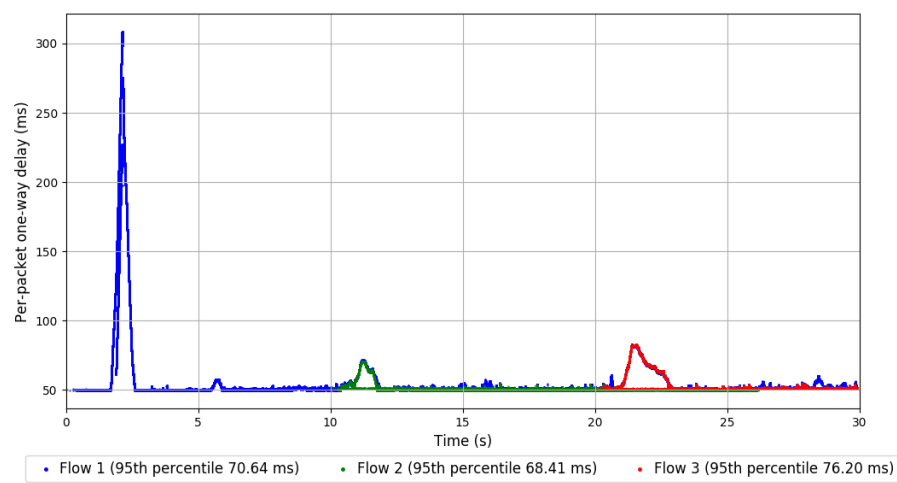
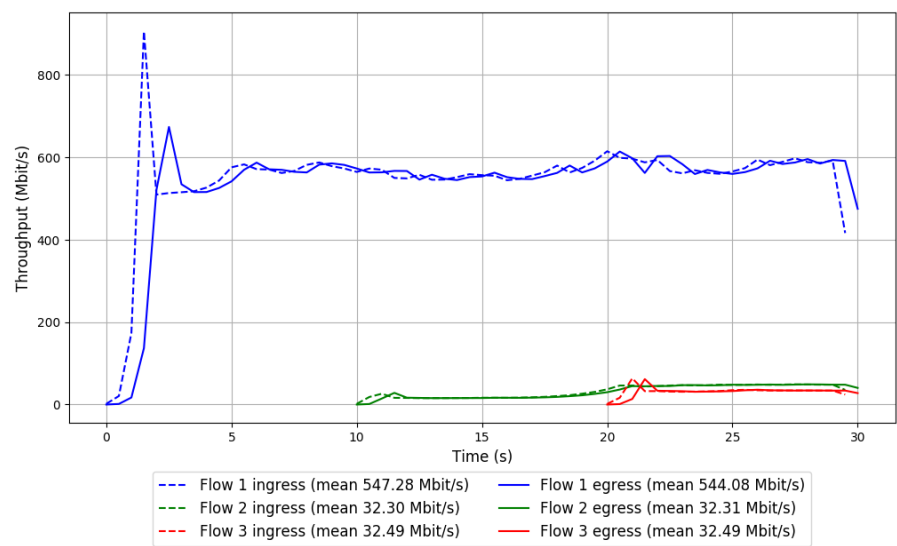
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-26 04:23:45  
End at: 2018-05-26 04:24:15  
Local clock offset: -0.201 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-05-26 08:00:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 576.26 Mbit/s  
95th percentile per-packet one-way delay: 70.669 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 544.08 Mbit/s  
95th percentile per-packet one-way delay: 70.636 ms  
Loss rate: 0.58%  
-- Flow 2:  
Average throughput: 32.31 Mbit/s  
95th percentile per-packet one-way delay: 68.411 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 32.49 Mbit/s  
95th percentile per-packet one-way delay: 76.198 ms  
Loss rate: 0.00%



Run 5: Report of PCC-Allegro — Data Link

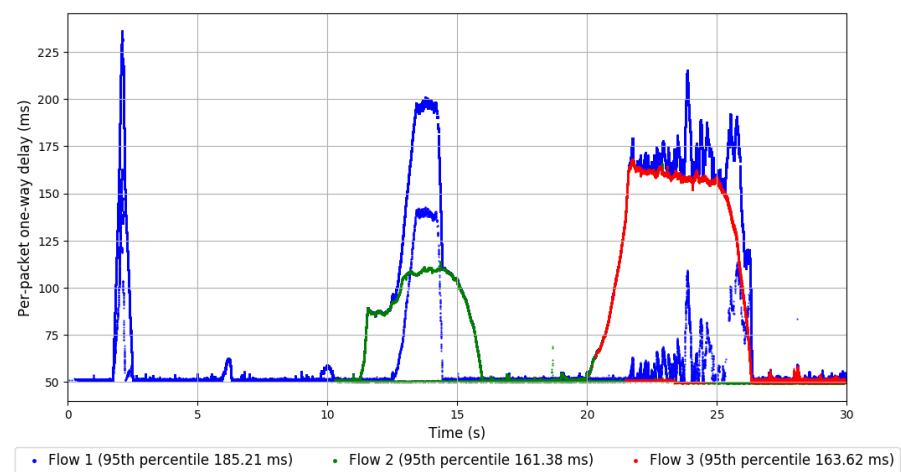
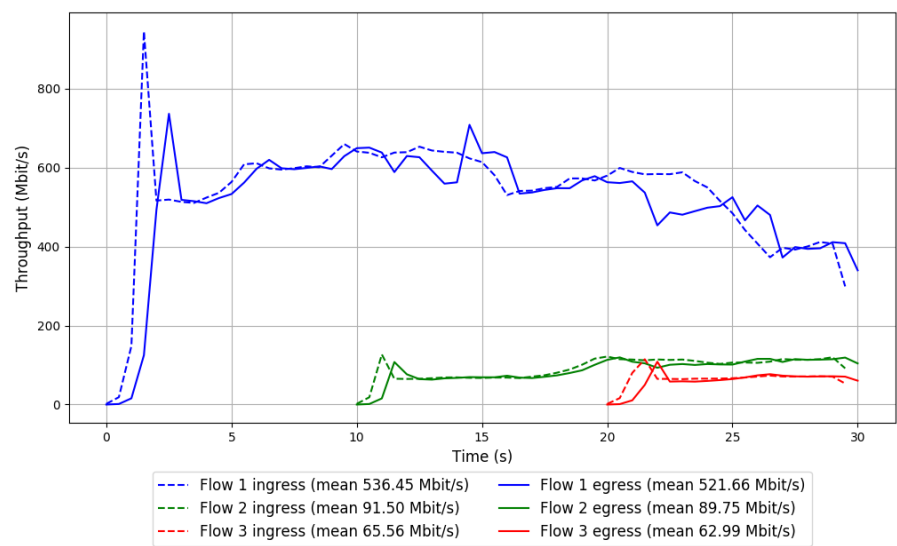


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-26 04:46:38  
End at: 2018-05-26 04:47:08  
Local clock offset: -0.605 ms  
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-05-26 08:00:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 602.07 Mbit/s  
95th percentile per-packet one-way delay: 180.145 ms  
Loss rate: 2.72%  
-- Flow 1:  
Average throughput: 521.66 Mbit/s  
95th percentile per-packet one-way delay: 185.207 ms  
Loss rate: 2.76%  
-- Flow 2:  
Average throughput: 89.75 Mbit/s  
95th percentile per-packet one-way delay: 161.380 ms  
Loss rate: 1.92%  
-- Flow 3:  
Average throughput: 62.99 Mbit/s  
95th percentile per-packet one-way delay: 163.624 ms  
Loss rate: 4.03%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-26 05:09:49

End at: 2018-05-26 05:10:19

Local clock offset: -0.192 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2018-05-26 08:06:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 569.36 Mbit/s

95th percentile per-packet one-way delay: 188.135 ms

Loss rate: 7.21%

-- Flow 1:

Average throughput: 524.96 Mbit/s

95th percentile per-packet one-way delay: 188.724 ms

Loss rate: 7.33%

-- Flow 2:

Average throughput: 65.72 Mbit/s

95th percentile per-packet one-way delay: 181.584 ms

Loss rate: 5.78%

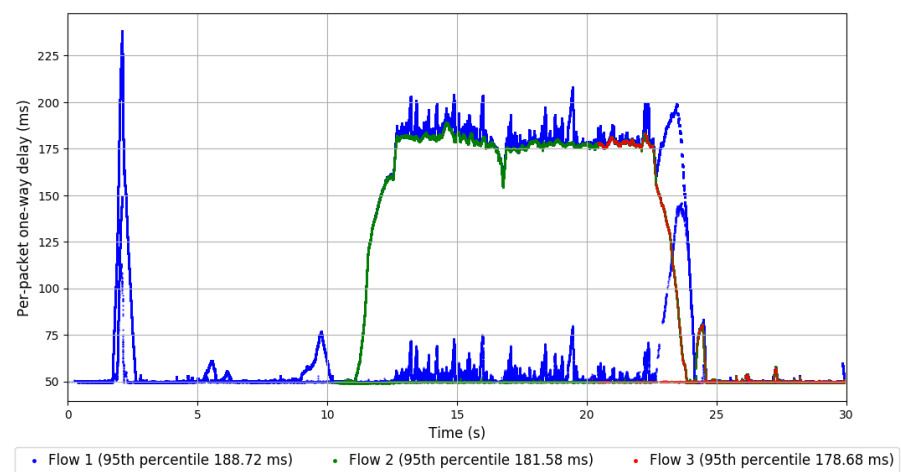
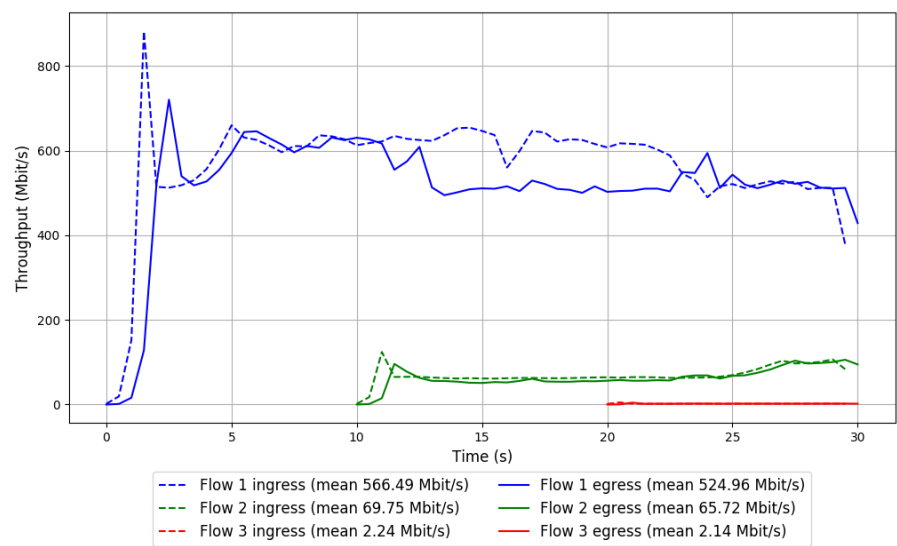
-- Flow 3:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 178.681 ms

Loss rate: 4.47%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-26 05:32:48

End at: 2018-05-26 05:33:18

Local clock offset: -0.214 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-05-26 08:06:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 585.90 Mbit/s

95th percentile per-packet one-way delay: 144.514 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 556.43 Mbit/s

95th percentile per-packet one-way delay: 146.921 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 129.475 ms

Loss rate: 0.00%

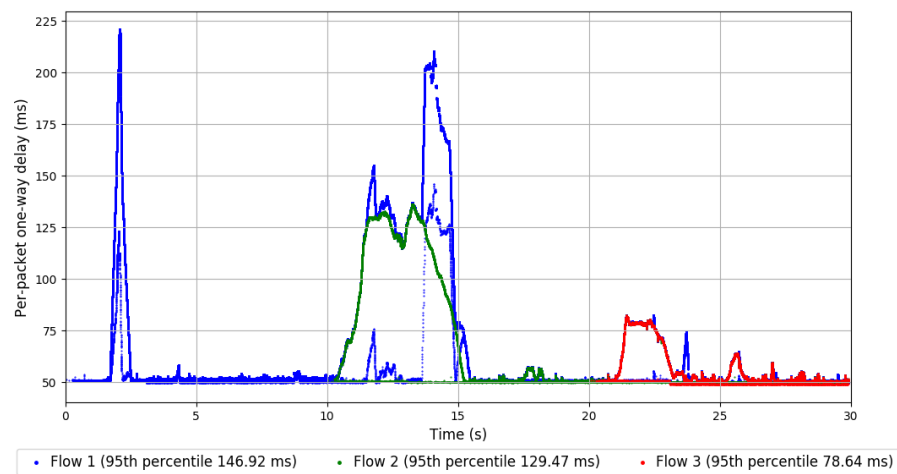
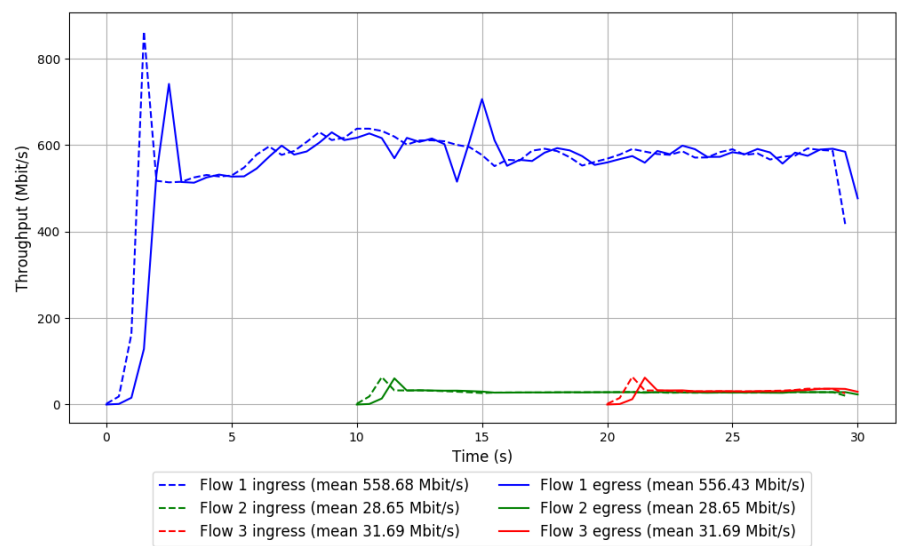
-- Flow 3:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 78.638 ms

Loss rate: 0.01%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-26 05:55:51

End at: 2018-05-26 05:56:21

Local clock offset: -0.563 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-05-26 08:06:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 563.54 Mbit/s

95th percentile per-packet one-way delay: 174.818 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 547.46 Mbit/s

95th percentile per-packet one-way delay: 175.016 ms

Loss rate: 1.81%

-- Flow 2:

Average throughput: 8.11 Mbit/s

95th percentile per-packet one-way delay: 169.246 ms

Loss rate: 1.42%

-- Flow 3:

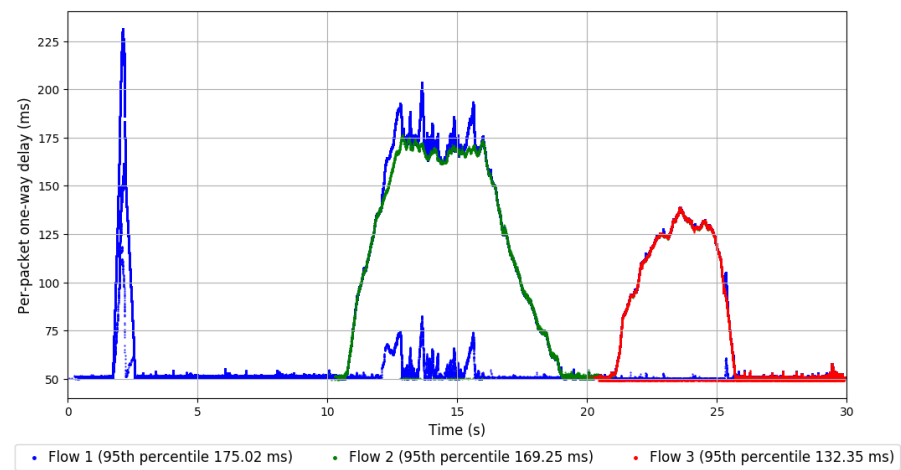
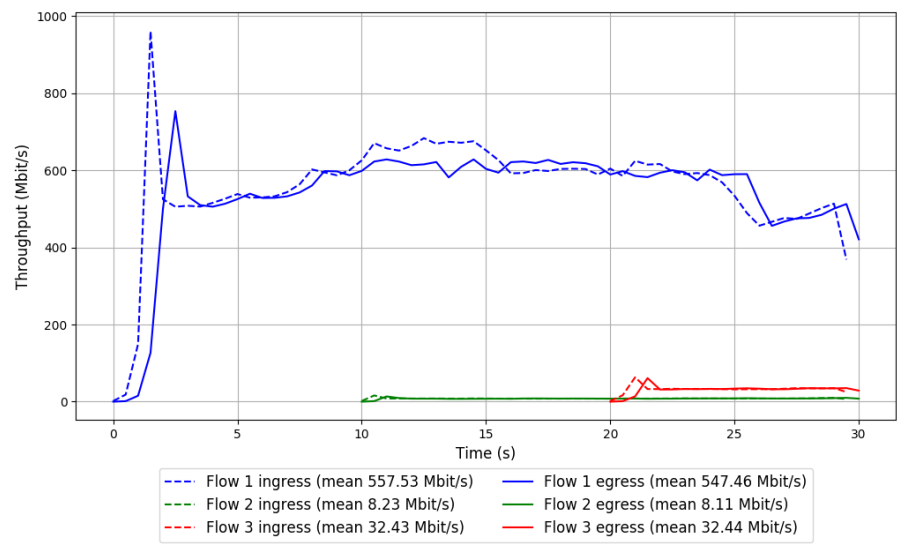
Average throughput: 32.44 Mbit/s

95th percentile per-packet one-way delay: 132.354 ms

Loss rate: 0.00%



Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-26 06:19:06

End at: 2018-05-26 06:19:36

Local clock offset: -0.102 ms

Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2018-05-26 08:07:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 587.51 Mbit/s

95th percentile per-packet one-way delay: 173.451 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 518.85 Mbit/s

95th percentile per-packet one-way delay: 176.495 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 160.287 ms

Loss rate: 0.54%

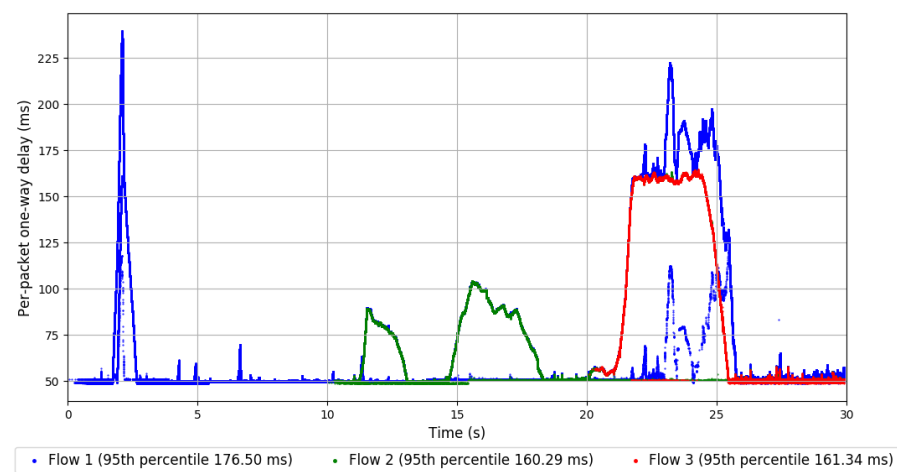
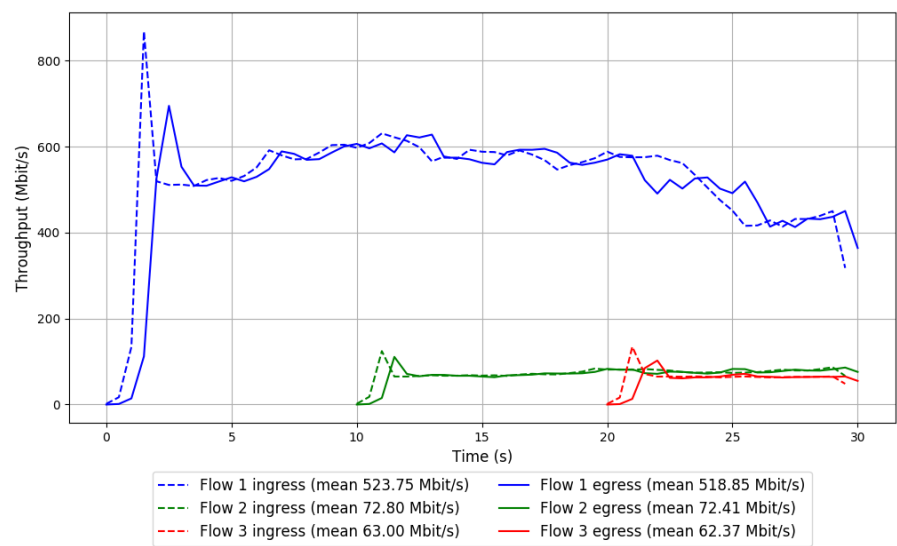
-- Flow 3:

Average throughput: 62.37 Mbit/s

95th percentile per-packet one-way delay: 161.340 ms

Loss rate: 1.03%

Run 10: Report of PCC-Allegro — Data Link

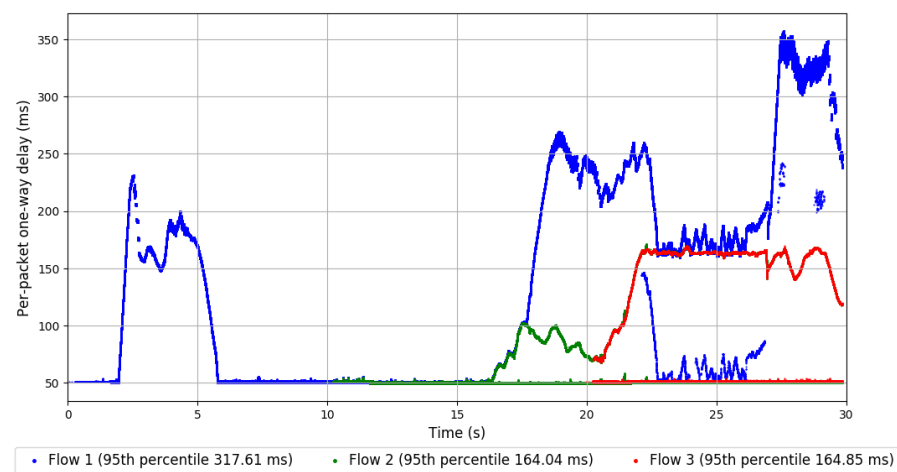
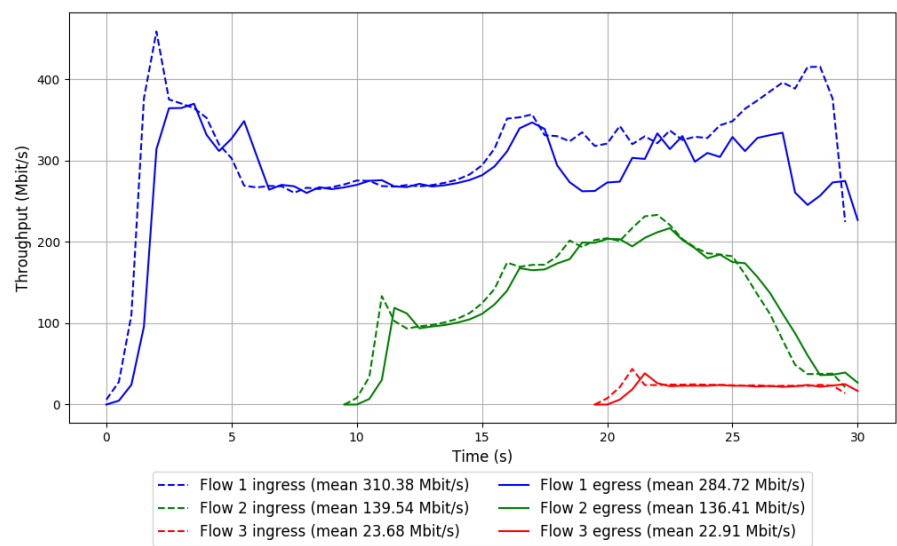


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-26 02:40:49
End at: 2018-05-26 02:41:19
Local clock offset: -0.213 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-05-26 08:11:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.31 Mbit/s
95th percentile per-packet one-way delay: 293.945 ms
Loss rate: 6.81%
-- Flow 1:
Average throughput: 284.72 Mbit/s
95th percentile per-packet one-way delay: 317.613 ms
Loss rate: 8.27%
-- Flow 2:
Average throughput: 136.41 Mbit/s
95th percentile per-packet one-way delay: 164.044 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 22.91 Mbit/s
95th percentile per-packet one-way delay: 164.855 ms
Loss rate: 3.27%
```

Run 1: Report of PCC-Expr — Data Link

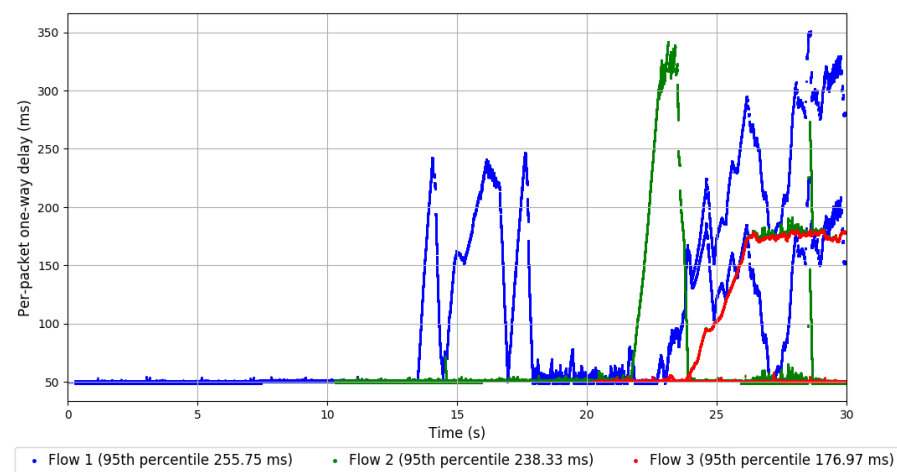
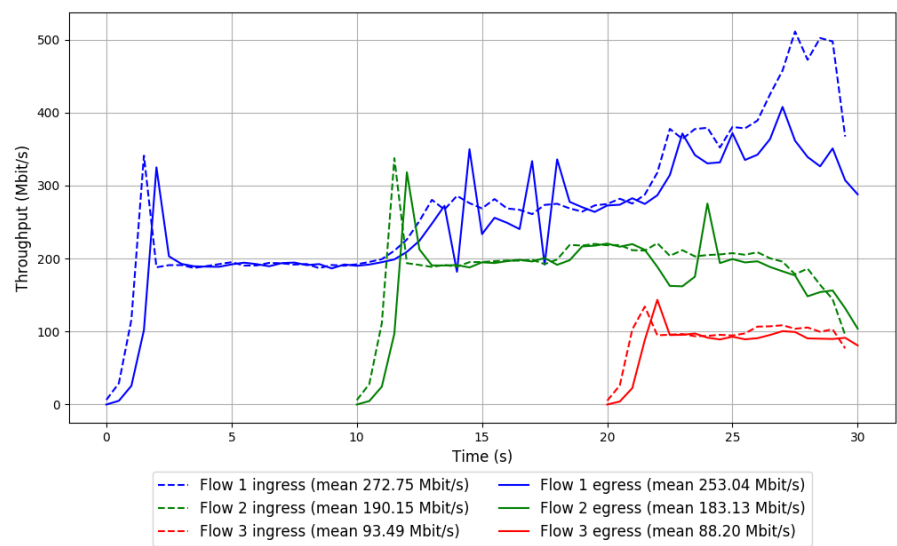


```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-26 03:03:34
End at: 2018-05-26 03:04:04
Local clock offset: -0.231 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-05-26 08:12:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.91 Mbit/s
95th percentile per-packet one-way delay: 241.669 ms
Loss rate: 6.06%
-- Flow 1:
Average throughput: 253.04 Mbit/s
95th percentile per-packet one-way delay: 255.747 ms
Loss rate: 7.22%
-- Flow 2:
Average throughput: 183.13 Mbit/s
95th percentile per-packet one-way delay: 238.334 ms
Loss rate: 3.69%
-- Flow 3:
Average throughput: 88.20 Mbit/s
95th percentile per-packet one-way delay: 176.973 ms
Loss rate: 5.63%
```

Run 2: Report of PCC-Expr — Data Link



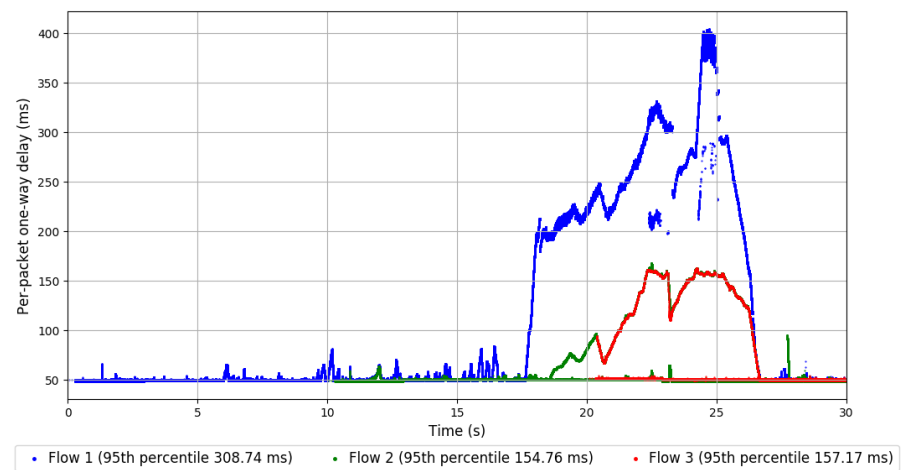
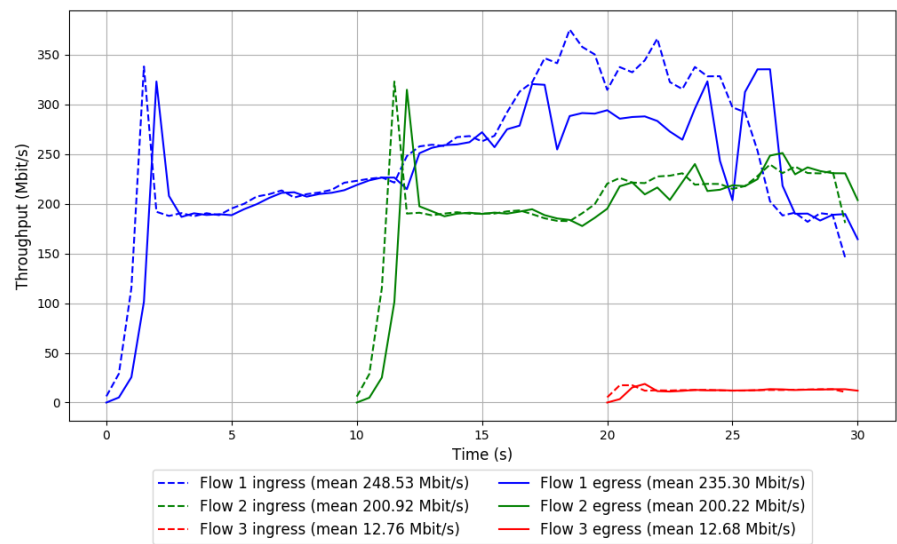
Run 3: Statistics of PCC-Expr

Start at: 2018-05-26 03:26:28  
End at: 2018-05-26 03:26:58  
Local clock offset: -0.236 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-05-26 08:12:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 372.65 Mbit/s  
95th percentile per-packet one-way delay: 290.904 ms  
Loss rate: 3.55%  
-- Flow 1:  
Average throughput: 235.30 Mbit/s  
95th percentile per-packet one-way delay: 308.739 ms  
Loss rate: 5.33%  
-- Flow 2:  
Average throughput: 200.22 Mbit/s  
95th percentile per-packet one-way delay: 154.757 ms  
Loss rate: 0.35%  
-- Flow 3:  
Average throughput: 12.68 Mbit/s  
95th percentile per-packet one-way delay: 157.168 ms  
Loss rate: 0.67%



Run 3: Report of PCC-Expr — Data Link

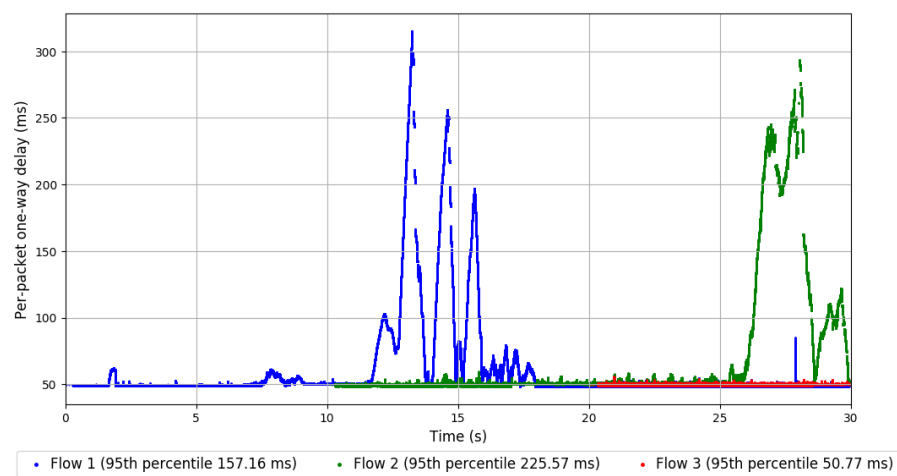
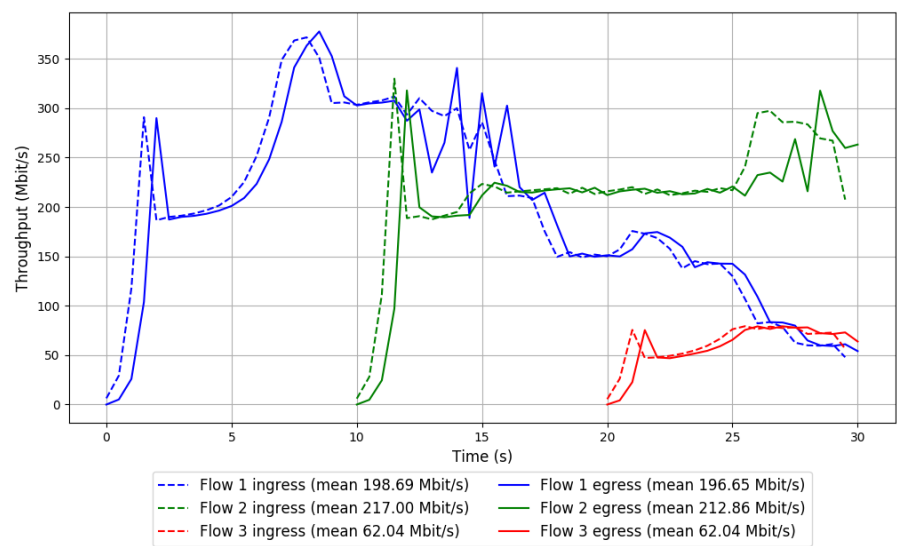


Run 4: Statistics of PCC-Expr

Start at: 2018-05-26 03:49:33  
End at: 2018-05-26 03:50:03  
Local clock offset: 0.199 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-05-26 08:12:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 358.67 Mbit/s  
95th percentile per-packet one-way delay: 196.833 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 196.65 Mbit/s  
95th percentile per-packet one-way delay: 157.161 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 212.86 Mbit/s  
95th percentile per-packet one-way delay: 225.574 ms  
Loss rate: 1.90%  
-- Flow 3:  
Average throughput: 62.04 Mbit/s  
95th percentile per-packet one-way delay: 50.765 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-26 04:12:24

End at: 2018-05-26 04:12:54

Local clock offset: -0.229 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-05-26 08:19:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 388.21 Mbit/s

95th percentile per-packet one-way delay: 140.617 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 230.61 Mbit/s

95th percentile per-packet one-way delay: 144.290 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 200.85 Mbit/s

95th percentile per-packet one-way delay: 59.101 ms

Loss rate: 0.06%

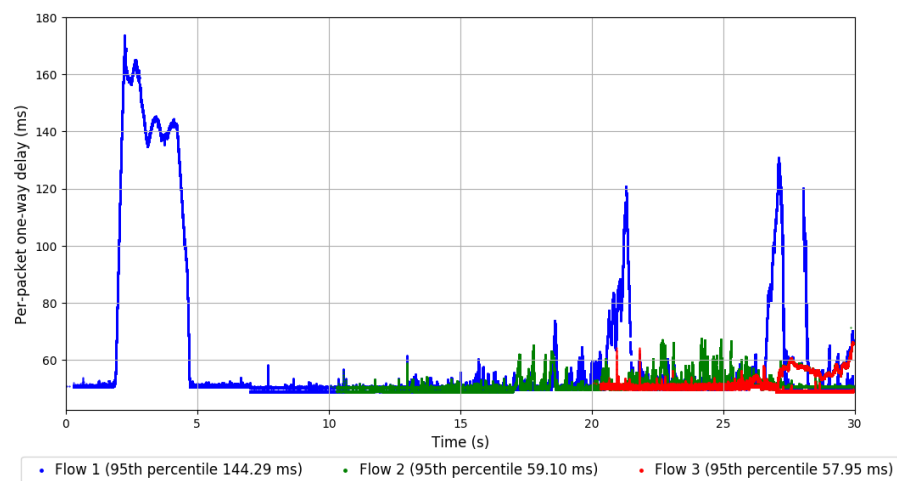
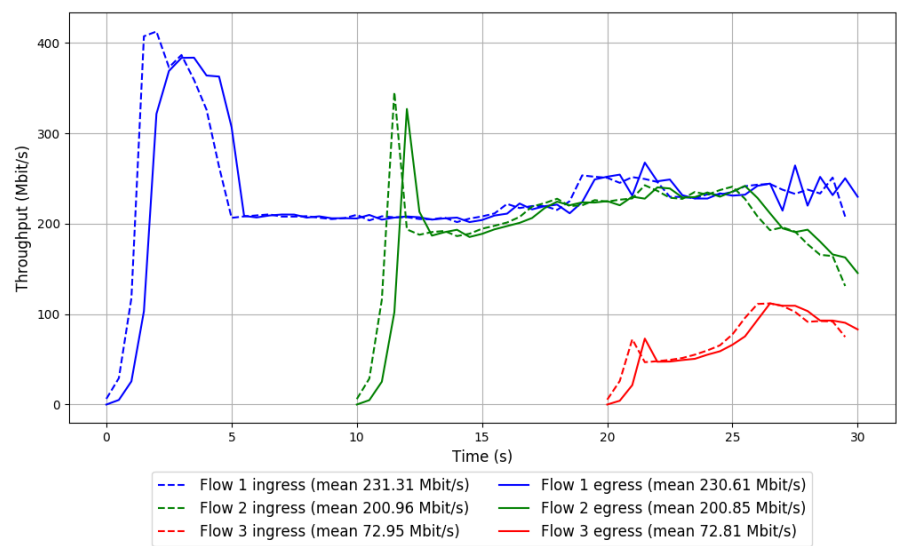
-- Flow 3:

Average throughput: 72.81 Mbit/s

95th percentile per-packet one-way delay: 57.950 ms

Loss rate: 0.19%

Run 5: Report of PCC-Expr — Data Link

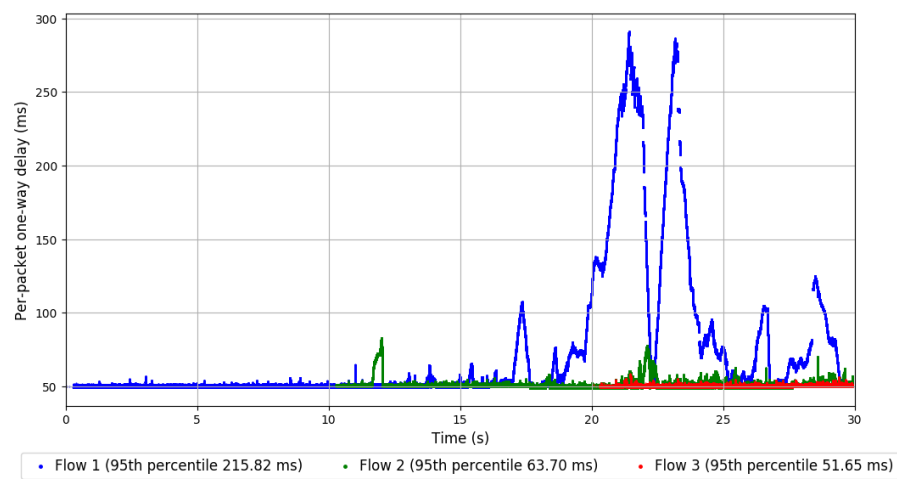
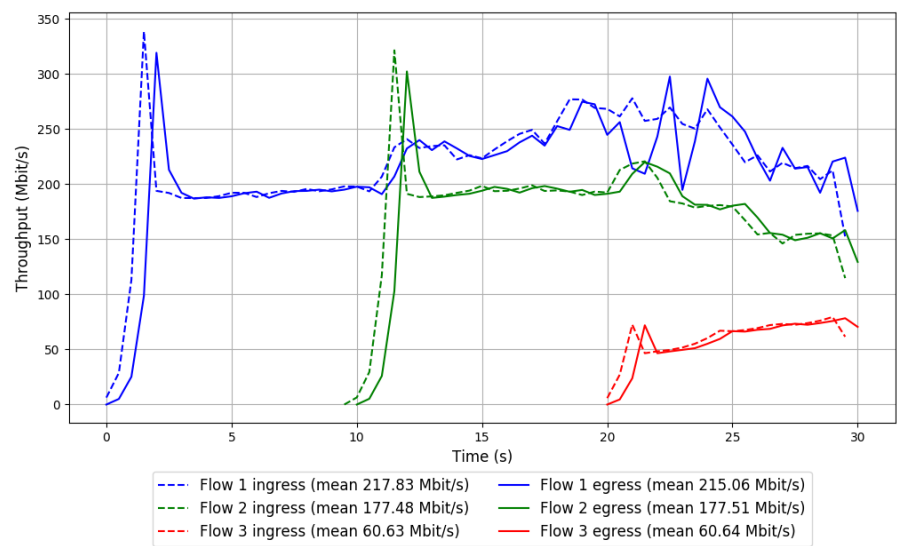


Run 6: Statistics of PCC-Expr

Start at: 2018-05-26 04:35:24  
End at: 2018-05-26 04:35:54  
Local clock offset: -0.242 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-05-26 08:19:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 353.18 Mbit/s  
95th percentile per-packet one-way delay: 158.392 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 215.06 Mbit/s  
95th percentile per-packet one-way delay: 215.822 ms  
Loss rate: 1.27%  
-- Flow 2:  
Average throughput: 177.51 Mbit/s  
95th percentile per-packet one-way delay: 63.701 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 60.64 Mbit/s  
95th percentile per-packet one-way delay: 51.647 ms  
Loss rate: 0.01%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-26 04:58:24

End at: 2018-05-26 04:58:54

Local clock offset: -0.202 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-05-26 08:21:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 432.16 Mbit/s

95th percentile per-packet one-way delay: 242.113 ms

Loss rate: 4.23%

-- Flow 1:

Average throughput: 262.49 Mbit/s

95th percentile per-packet one-way delay: 235.329 ms

Loss rate: 5.46%

-- Flow 2:

Average throughput: 208.88 Mbit/s

95th percentile per-packet one-way delay: 266.592 ms

Loss rate: 2.73%

-- Flow 3:

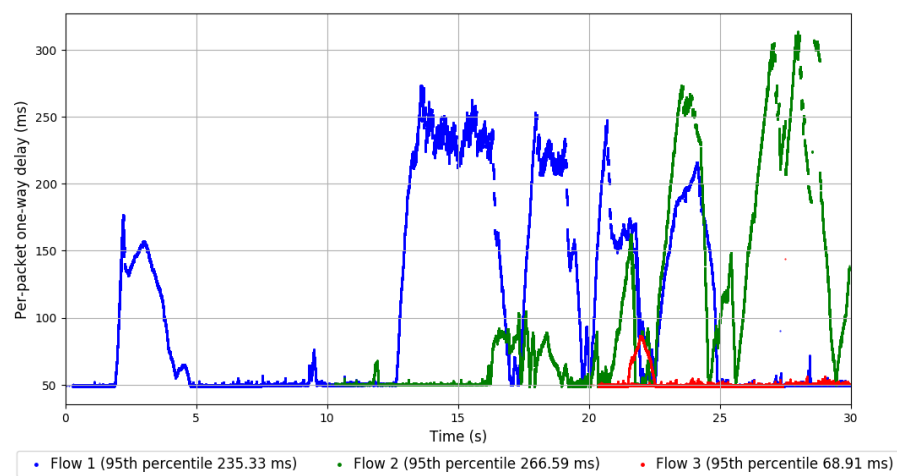
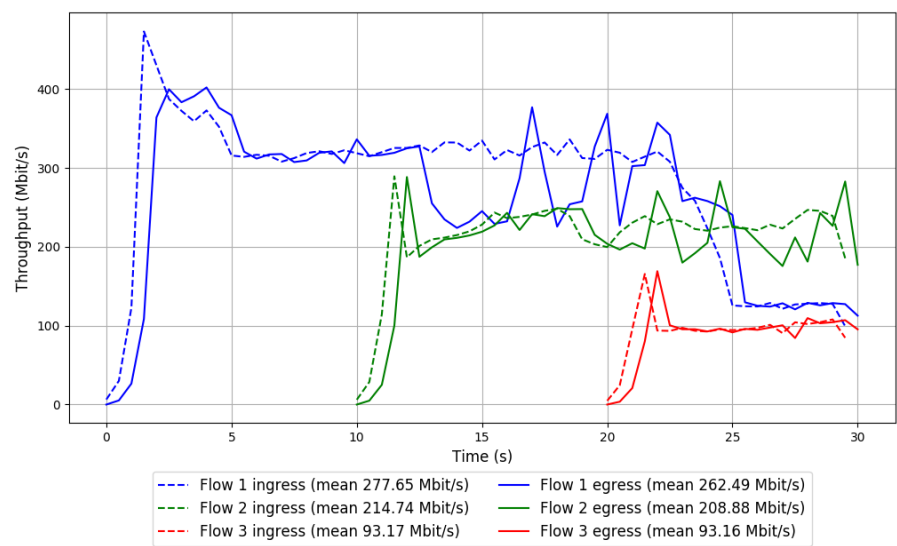
Average throughput: 93.16 Mbit/s

95th percentile per-packet one-way delay: 68.906 ms

Loss rate: 0.02%



Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-26 05:21:25

End at: 2018-05-26 05:21:55

Local clock offset: -0.614 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-05-26 08:21:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 434.74 Mbit/s

95th percentile per-packet one-way delay: 218.508 ms

Loss rate: 6.46%

-- Flow 1:

Average throughput: 256.49 Mbit/s

95th percentile per-packet one-way delay: 181.365 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 223.72 Mbit/s

95th percentile per-packet one-way delay: 230.334 ms

Loss rate: 13.68%

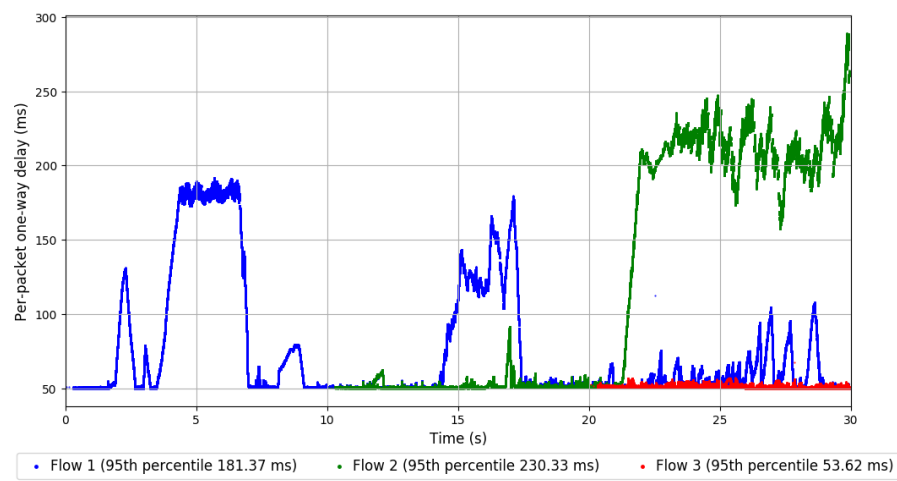
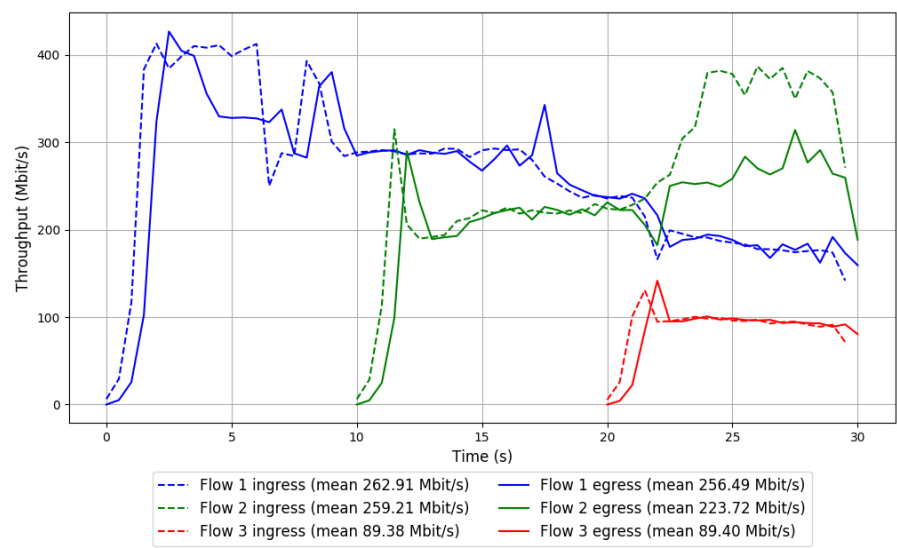
-- Flow 3:

Average throughput: 89.40 Mbit/s

95th percentile per-packet one-way delay: 53.616 ms

Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-26 05:44:35

End at: 2018-05-26 05:45:05

Local clock offset: 0.158 ms

Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2018-05-26 08:22:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 365.38 Mbit/s

95th percentile per-packet one-way delay: 122.759 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 215.36 Mbit/s

95th percentile per-packet one-way delay: 128.411 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 174.97 Mbit/s

95th percentile per-packet one-way delay: 86.973 ms

Loss rate: 0.01%

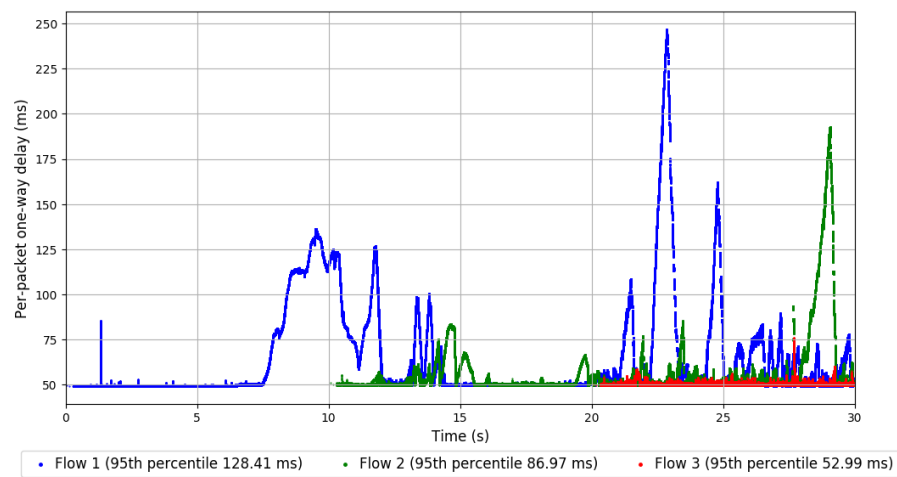
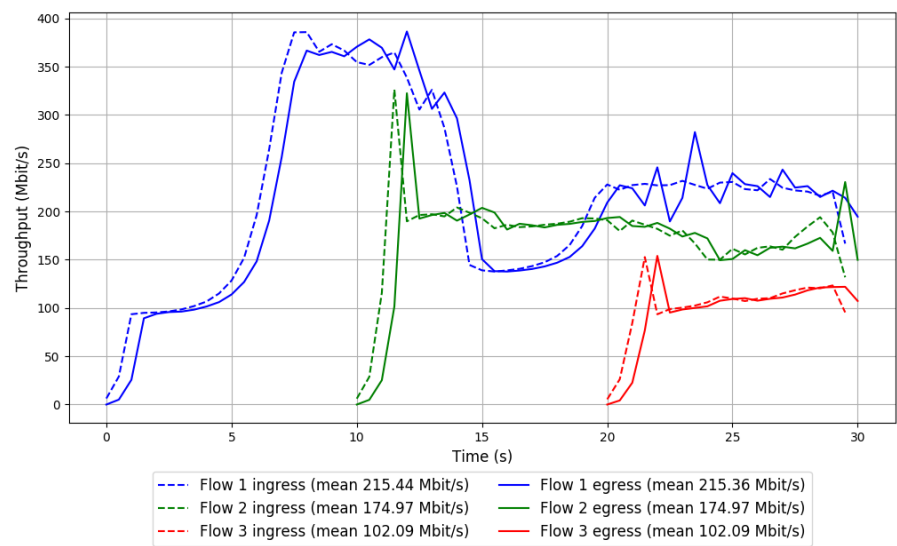
-- Flow 3:

Average throughput: 102.09 Mbit/s

95th percentile per-packet one-way delay: 52.989 ms

Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link

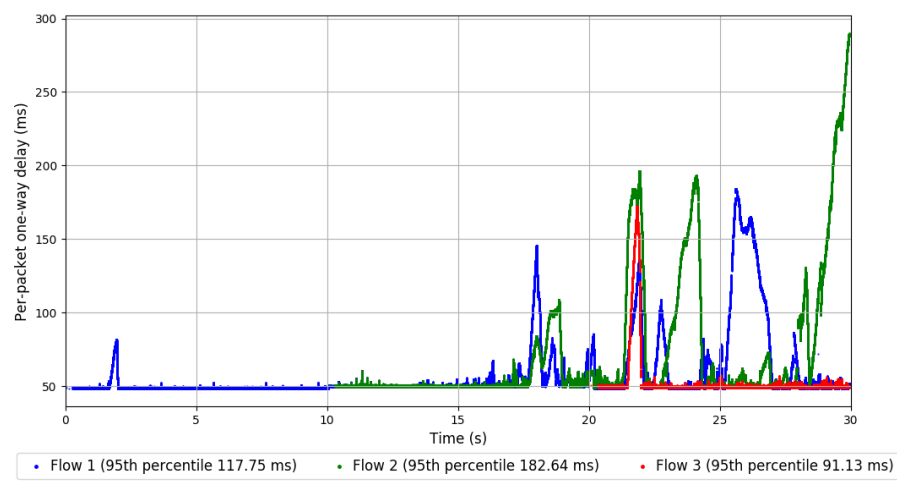
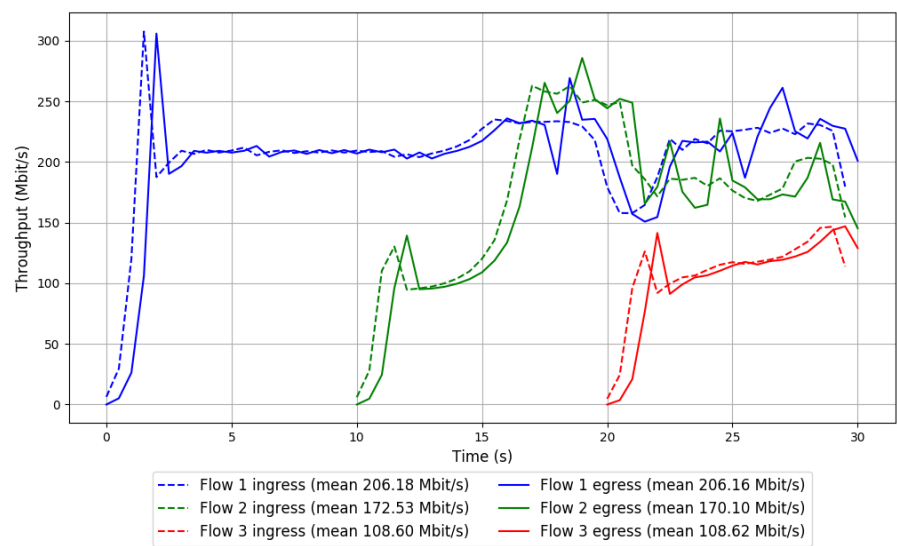


Run 10: Statistics of PCC-Expr

Start at: 2018-05-26 06:07:41  
End at: 2018-05-26 06:08:11  
Local clock offset: 0.276 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 355.10 Mbit/s  
95th percentile per-packet one-way delay: 150.073 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 206.16 Mbit/s  
95th percentile per-packet one-way delay: 117.750 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 170.10 Mbit/s  
95th percentile per-packet one-way delay: 182.643 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 108.62 Mbit/s  
95th percentile per-packet one-way delay: 91.132 ms  
Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link



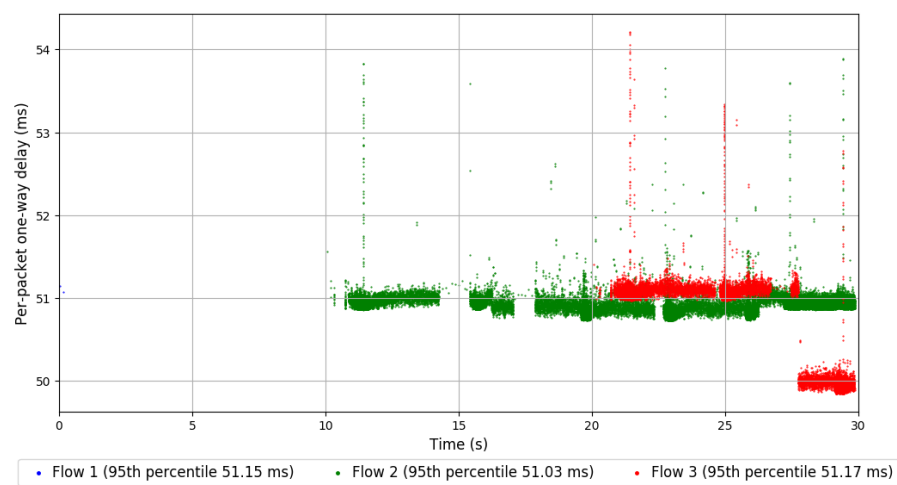
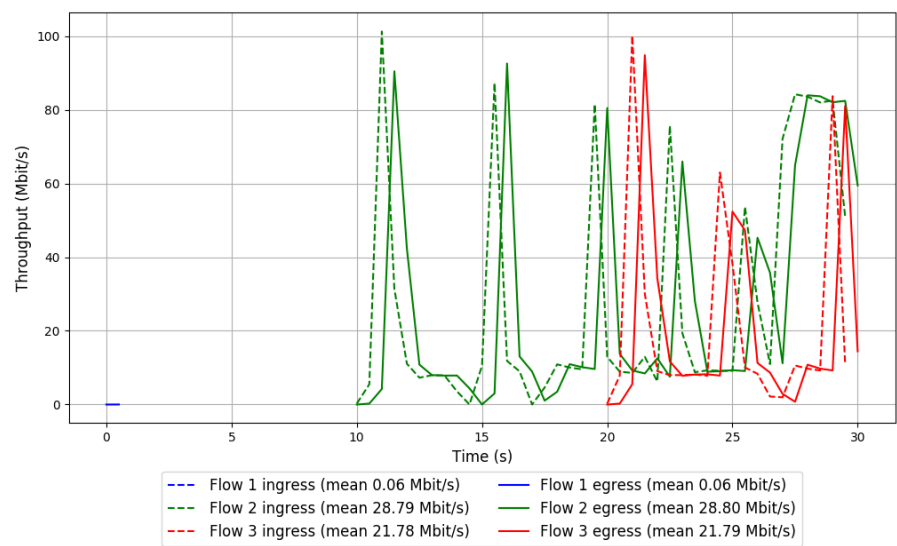
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-26 02:59:13  
End at: 2018-05-26 02:59:43  
Local clock offset: -0.63 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 26.29 Mbit/s  
95th percentile per-packet one-way delay: 51.112 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 51.146 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 28.80 Mbit/s  
95th percentile per-packet one-way delay: 51.035 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 21.79 Mbit/s  
95th percentile per-packet one-way delay: 51.166 ms  
Loss rate: 0.00%



Run 1: Report of QUIC Cubic — Data Link

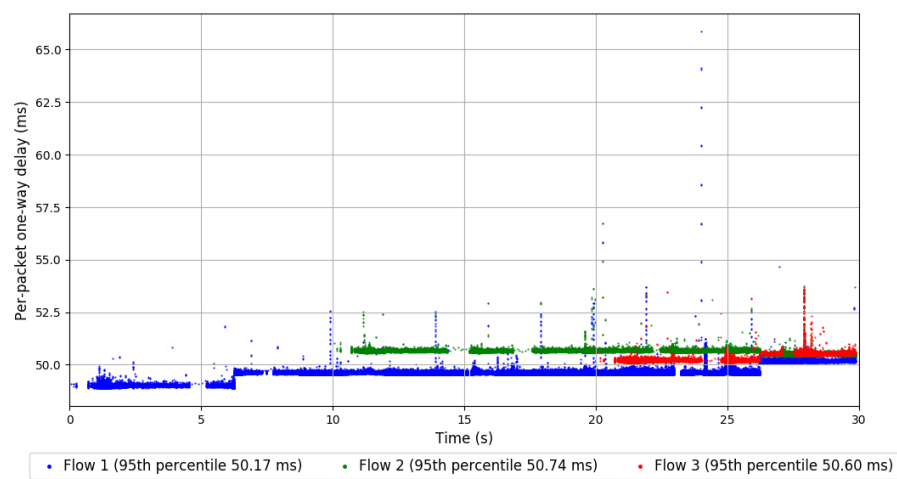
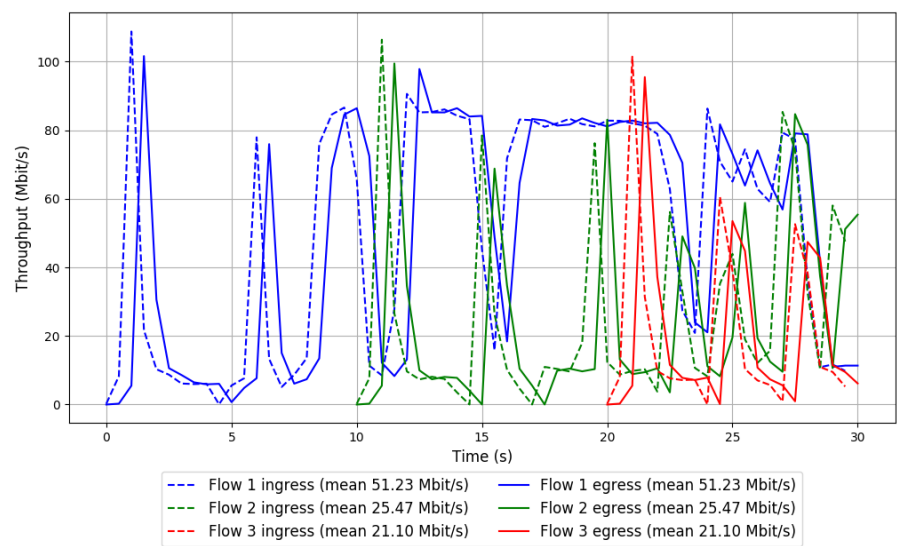


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-26 03:22:05  
End at: 2018-05-26 03:22:35  
Local clock offset: -0.196 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.08 Mbit/s  
95th percentile per-packet one-way delay: 50.678 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 51.23 Mbit/s  
95th percentile per-packet one-way delay: 50.175 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 25.47 Mbit/s  
95th percentile per-packet one-way delay: 50.741 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 21.10 Mbit/s  
95th percentile per-packet one-way delay: 50.601 ms  
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

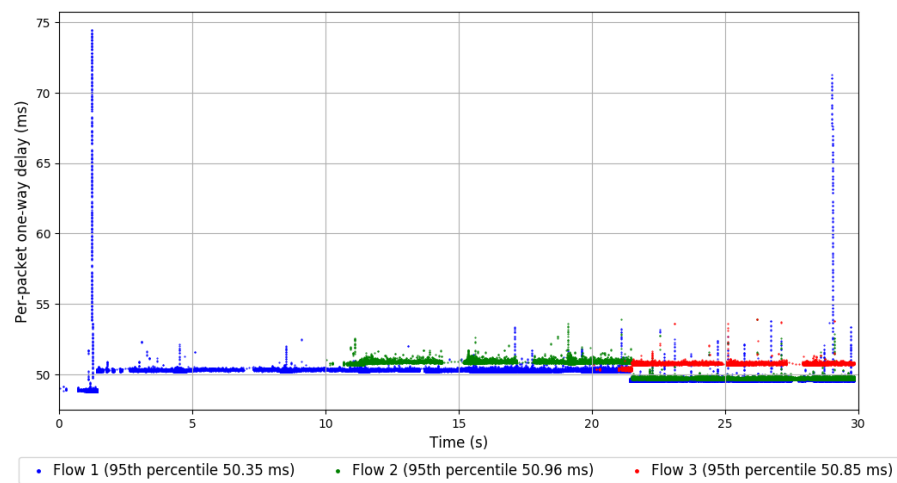
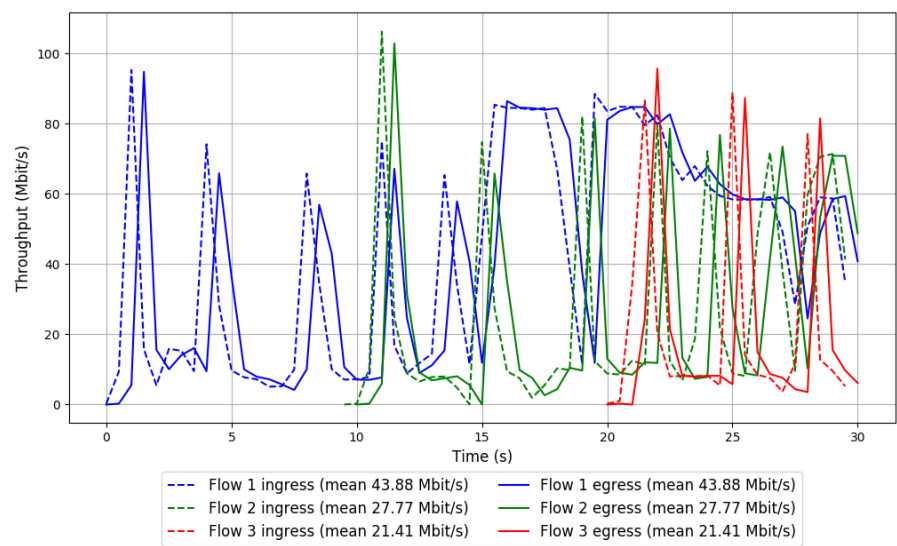


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-26 03:45:10  
End at: 2018-05-26 03:45:40  
Local clock offset: -0.281 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.37 Mbit/s  
95th percentile per-packet one-way delay: 50.866 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.88 Mbit/s  
95th percentile per-packet one-way delay: 50.352 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 27.77 Mbit/s  
95th percentile per-packet one-way delay: 50.956 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 21.41 Mbit/s  
95th percentile per-packet one-way delay: 50.853 ms  
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

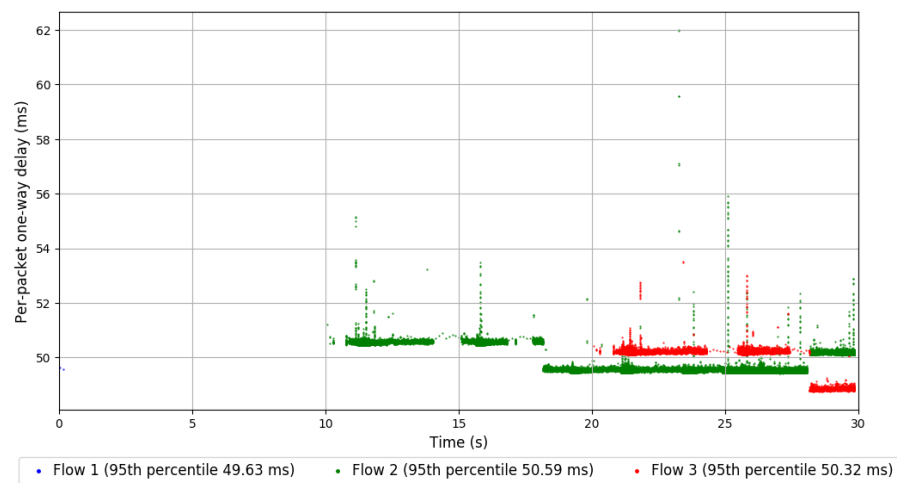
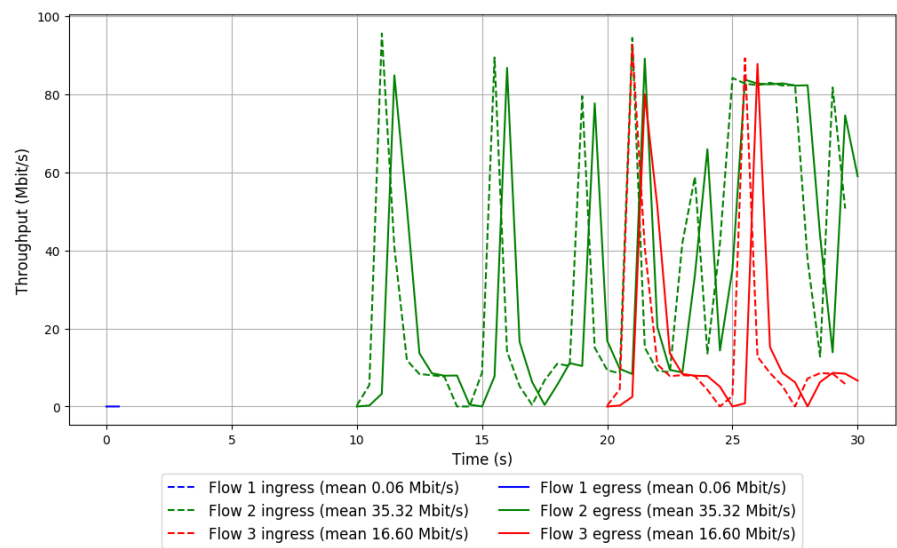


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-26 04:08:03  
End at: 2018-05-26 04:08:33  
Local clock offset: -0.168 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.91 Mbit/s  
95th percentile per-packet one-way delay: 50.576 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 49.635 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.32 Mbit/s  
95th percentile per-packet one-way delay: 50.586 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 16.60 Mbit/s  
95th percentile per-packet one-way delay: 50.317 ms  
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



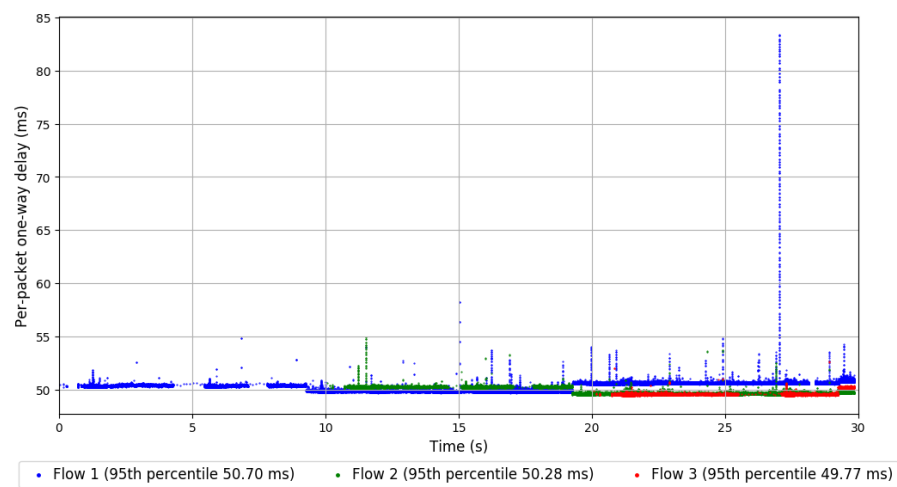
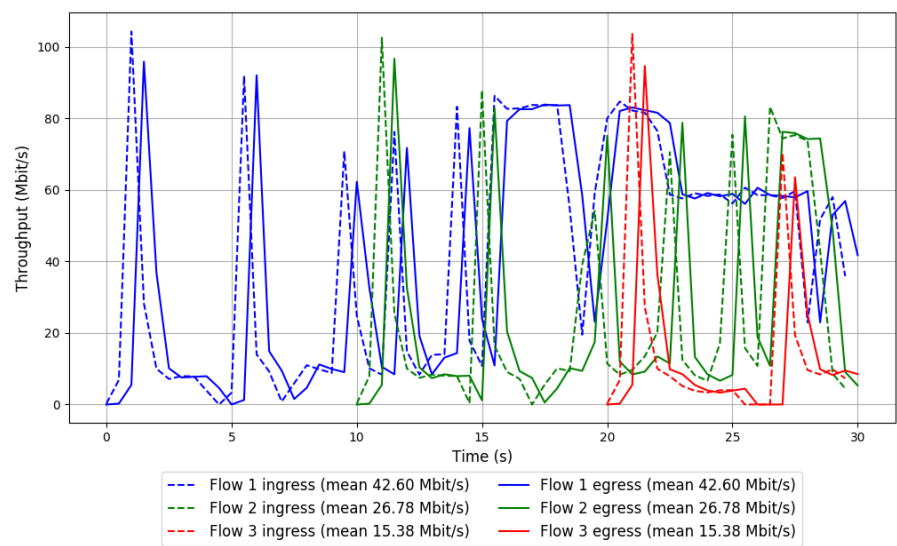
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-26 04:31:02  
End at: 2018-05-26 04:31:32  
Local clock offset: -0.203 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.44 Mbit/s  
95th percentile per-packet one-way delay: 50.661 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 42.60 Mbit/s  
95th percentile per-packet one-way delay: 50.705 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 26.78 Mbit/s  
95th percentile per-packet one-way delay: 50.279 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.38 Mbit/s  
95th percentile per-packet one-way delay: 49.773 ms  
Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-26 04:53:58

End at: 2018-05-26 04:54:28

Local clock offset: -0.212 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-05-26 08:22:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.88 Mbit/s

95th percentile per-packet one-way delay: 50.747 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 38.85 Mbit/s

95th percentile per-packet one-way delay: 50.763 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 50.730 ms

Loss rate: 0.00%

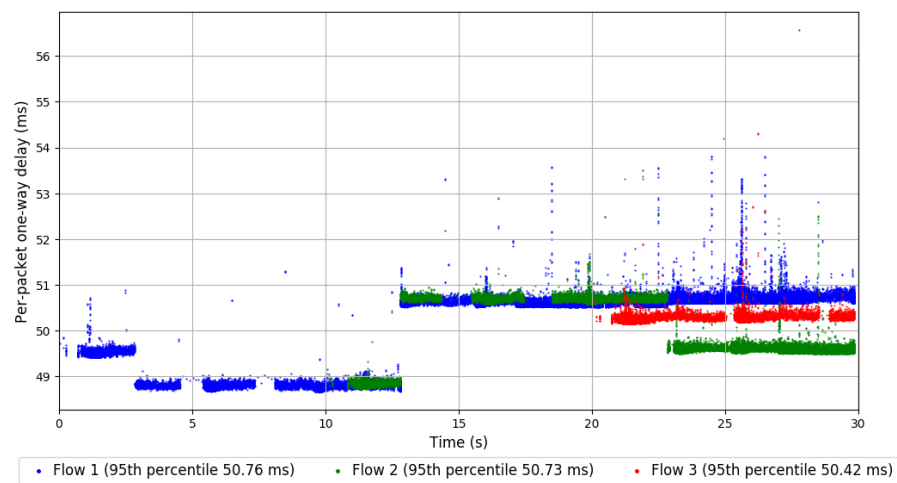
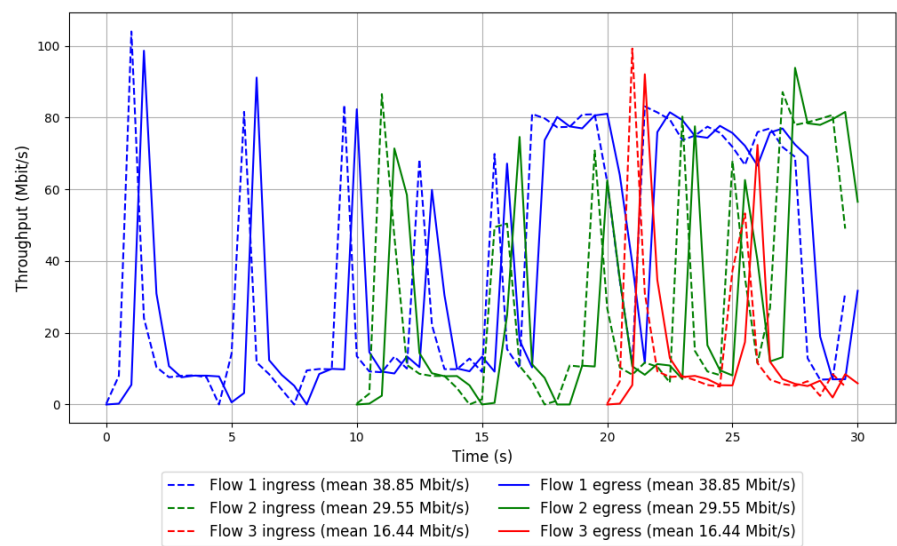
-- Flow 3:

Average throughput: 16.44 Mbit/s

95th percentile per-packet one-way delay: 50.416 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-26 05:17:06

End at: 2018-05-26 05:17:36

Local clock offset: 0.179 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-05-26 08:22:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.07 Mbit/s

95th percentile per-packet one-way delay: 50.655 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.62 Mbit/s

95th percentile per-packet one-way delay: 50.693 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 49.371 ms

Loss rate: 0.00%

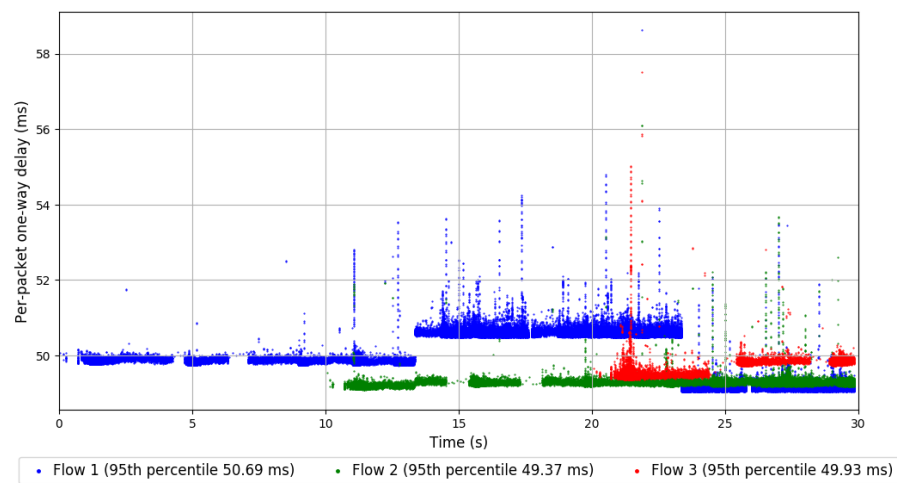
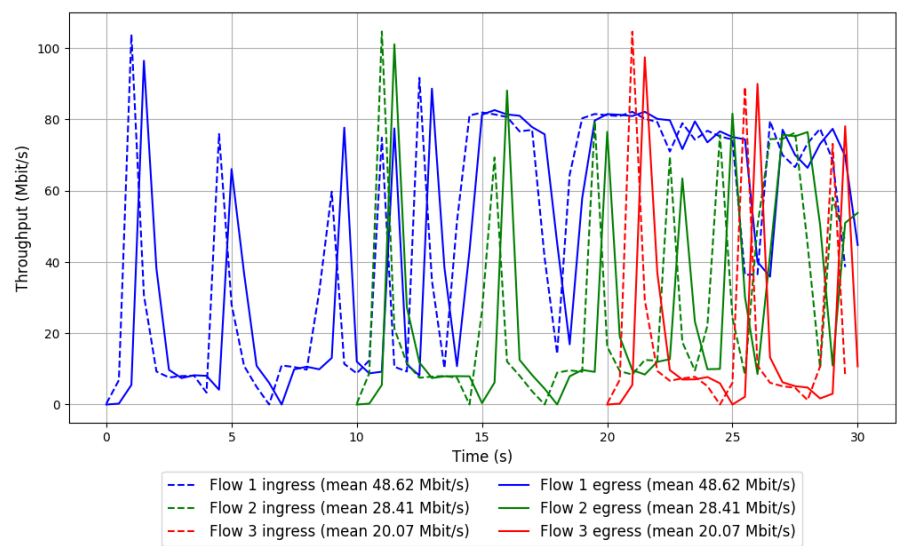
-- Flow 3:

Average throughput: 20.07 Mbit/s

95th percentile per-packet one-way delay: 49.929 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-26 05:40:15

End at: 2018-05-26 05:40:45

Local clock offset: -0.598 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-05-26 08:22:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.06 Mbit/s

95th percentile per-packet one-way delay: 51.221 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 50.873 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.55 Mbit/s

95th percentile per-packet one-way delay: 50.973 ms

Loss rate: 0.00%

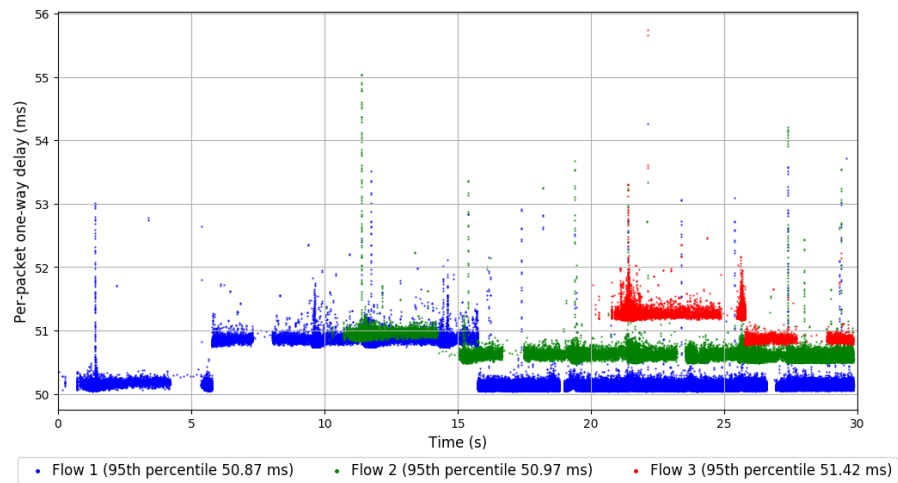
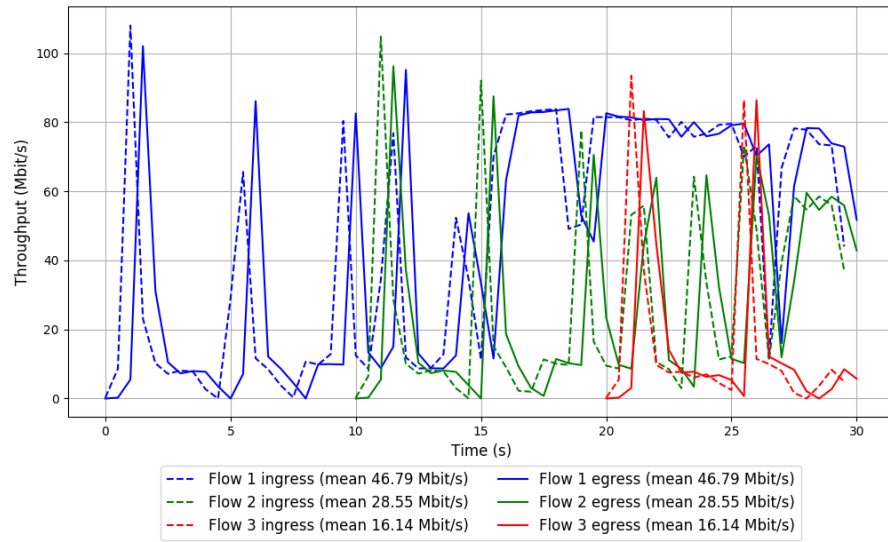
-- Flow 3:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 51.422 ms

Loss rate: 0.00%

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



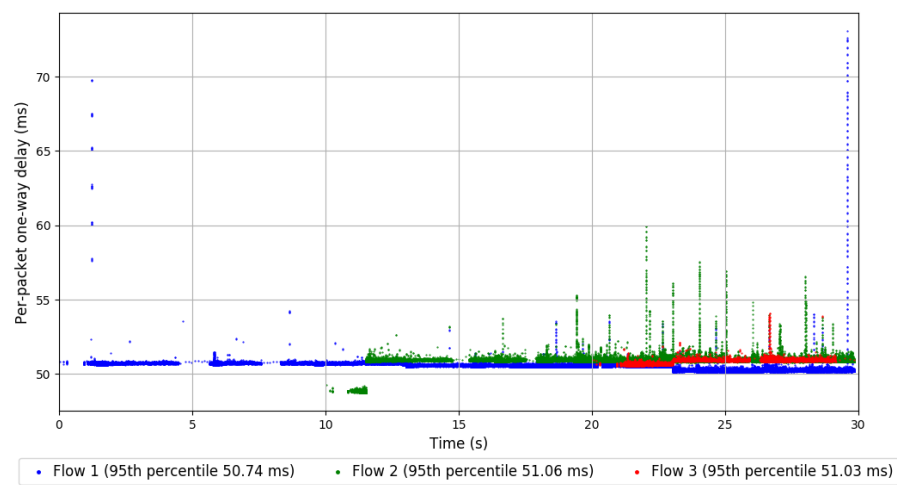
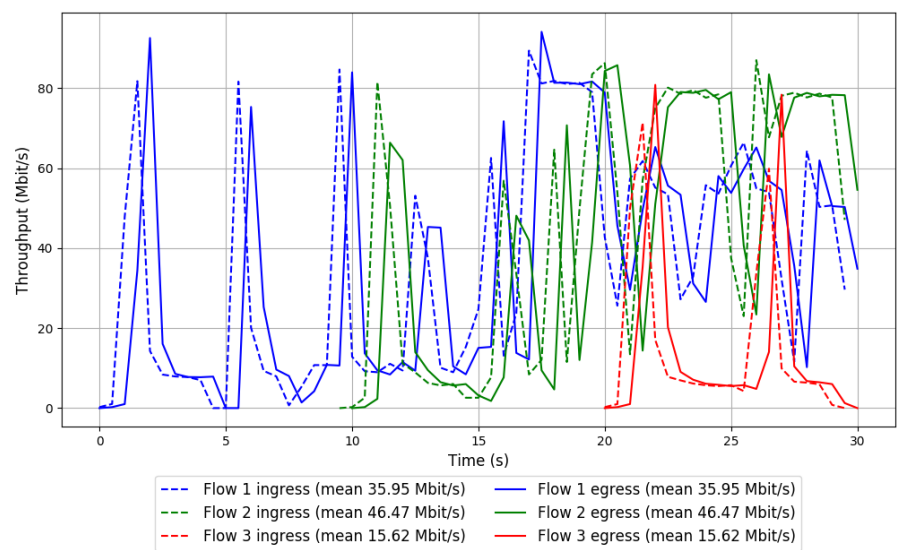
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-26 06:03:18  
End at: 2018-05-26 06:03:48  
Local clock offset: -0.148 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.95 Mbit/s  
95th percentile per-packet one-way delay: 50.987 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 35.95 Mbit/s  
95th percentile per-packet one-way delay: 50.744 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.47 Mbit/s  
95th percentile per-packet one-way delay: 51.059 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.62 Mbit/s  
95th percentile per-packet one-way delay: 51.029 ms  
Loss rate: 0.00%



Run 9: Report of QUIC Cubic — Data Link

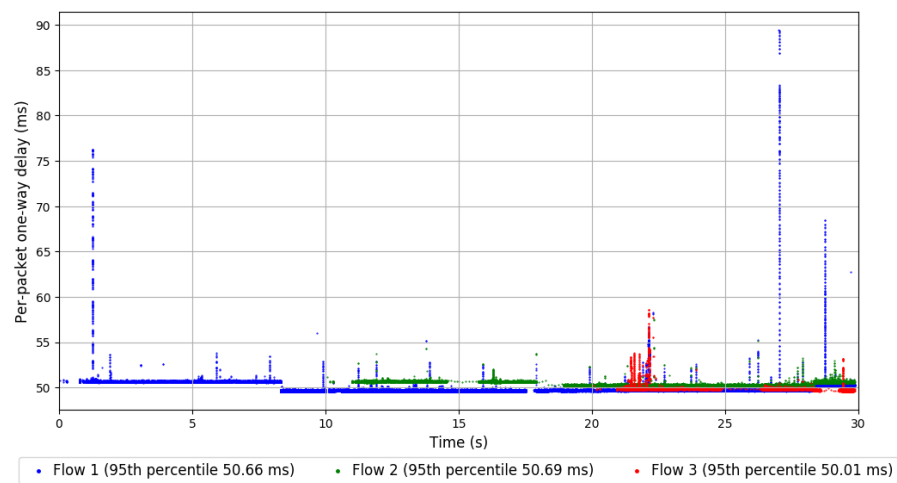
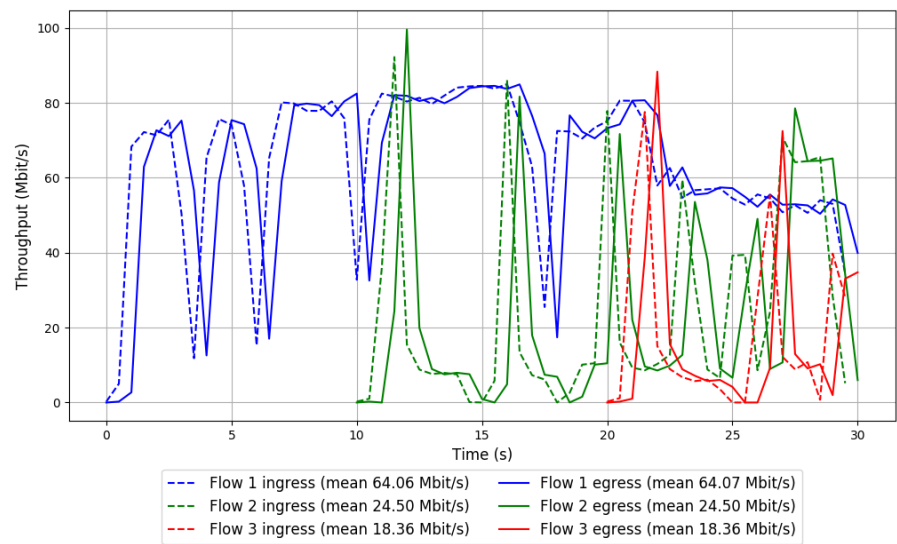


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-26 06:26:23  
End at: 2018-05-26 06:26:53  
Local clock offset: -0.15 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.38 Mbit/s  
95th percentile per-packet one-way delay: 50.665 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 64.07 Mbit/s  
95th percentile per-packet one-way delay: 50.657 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.50 Mbit/s  
95th percentile per-packet one-way delay: 50.690 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 18.36 Mbit/s  
95th percentile per-packet one-way delay: 50.009 ms  
Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

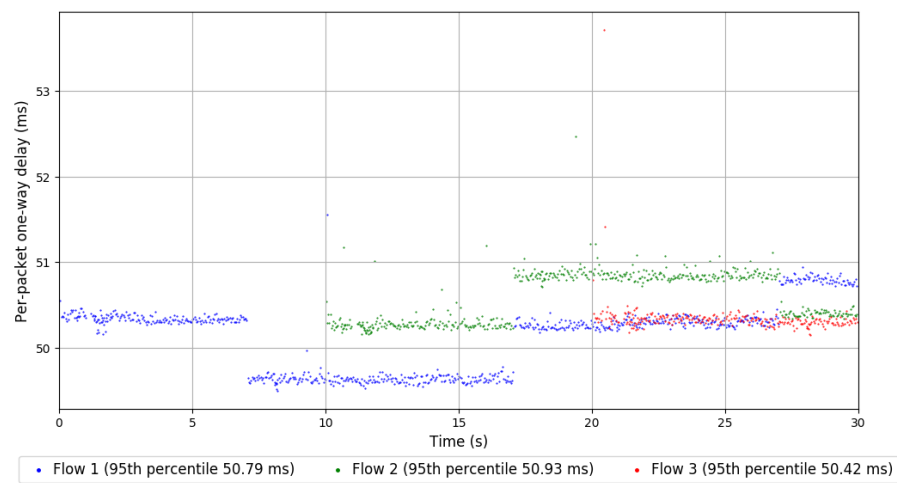
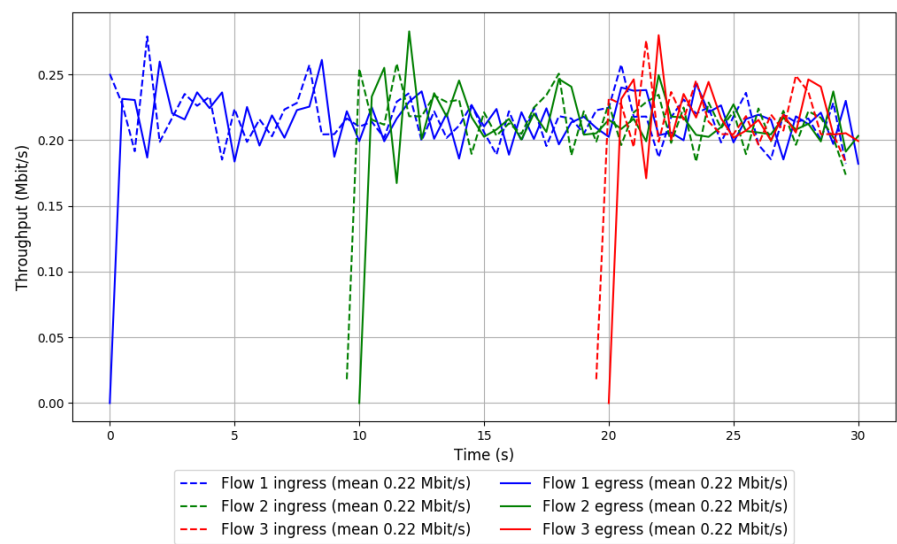


Run 1: Statistics of SReAM

Start at: 2018-05-26 02:49:44  
End at: 2018-05-26 02:50:14  
Local clock offset: -0.227 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 50.874 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.788 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.931 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.418 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

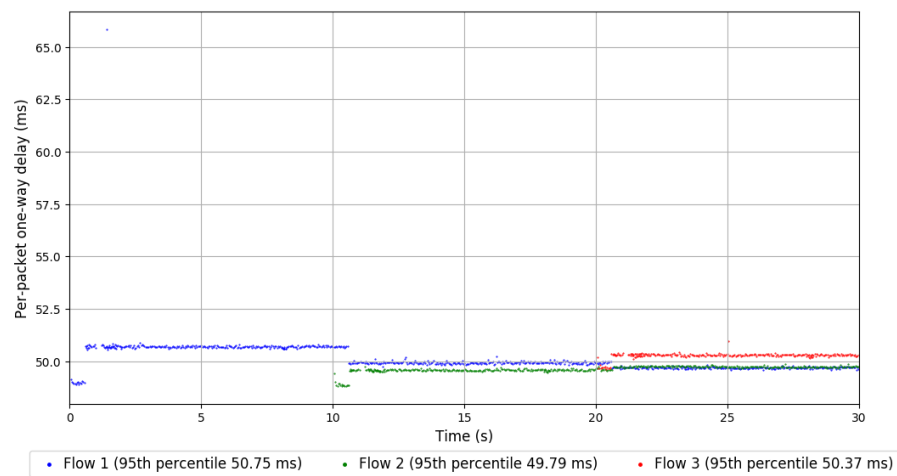
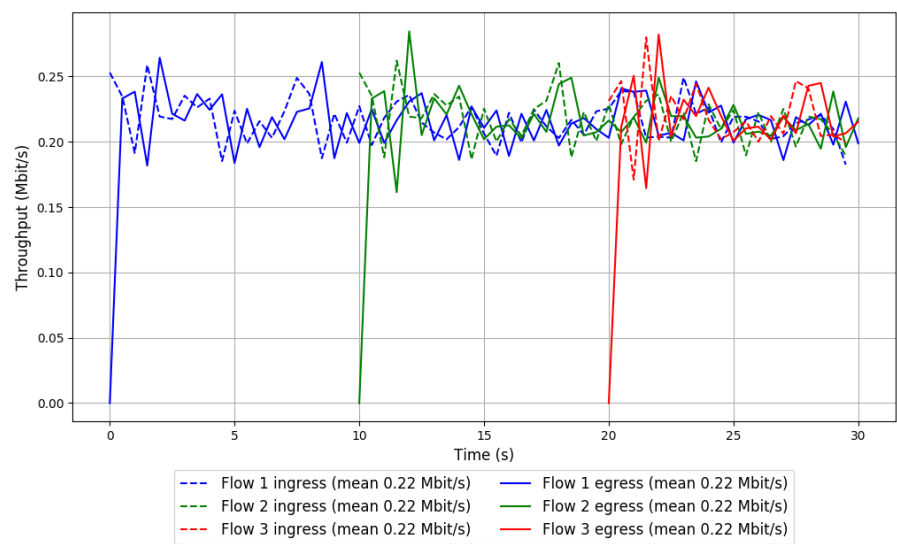


Run 2: Statistics of SReAM

Start at: 2018-05-26 03:12:41  
End at: 2018-05-26 03:13:11  
Local clock offset: -0.215 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 50.728 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.750 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.787 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.373 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



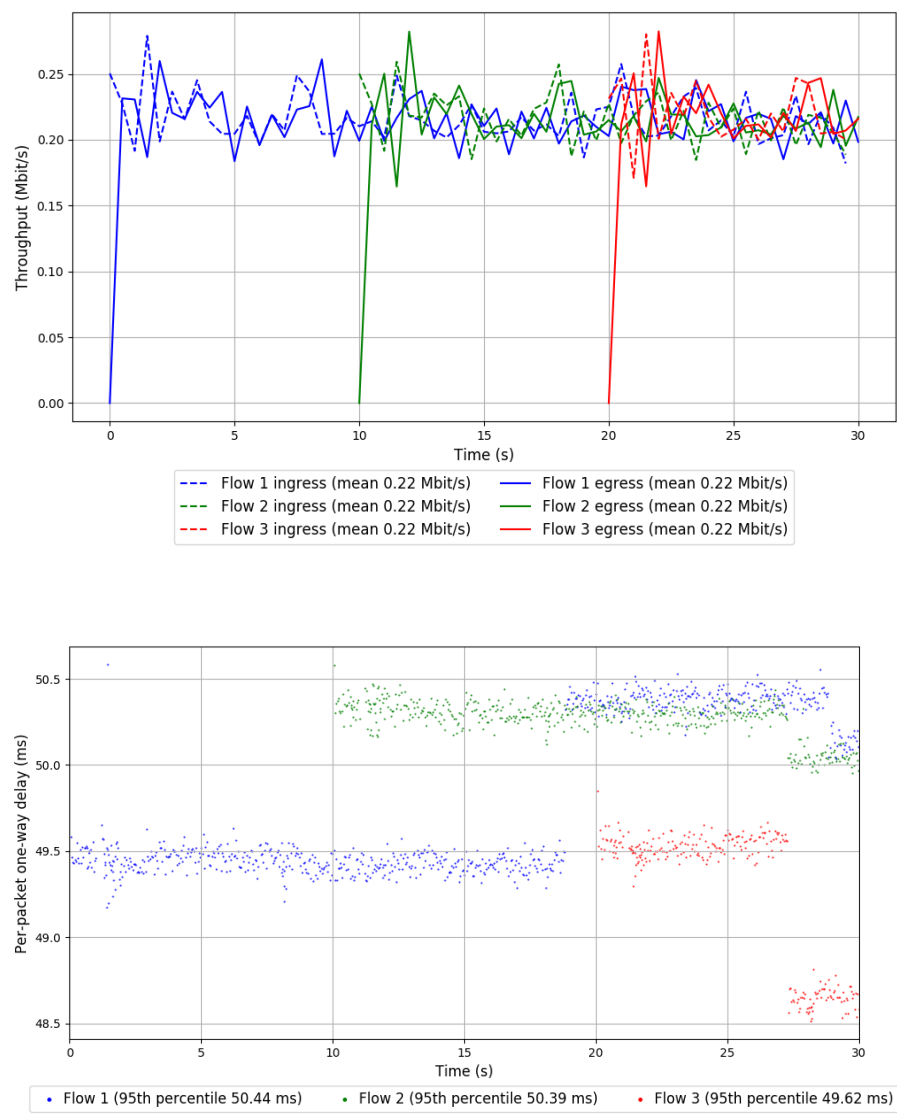
Run 3: Statistics of SReAM

Start at: 2018-05-26 03:35:32  
End at: 2018-05-26 03:36:02  
Local clock offset: 0.163 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 50.417 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.439 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.393 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.618 ms  
Loss rate: 0.00%



Run 3: Report of SCReAM — Data Link

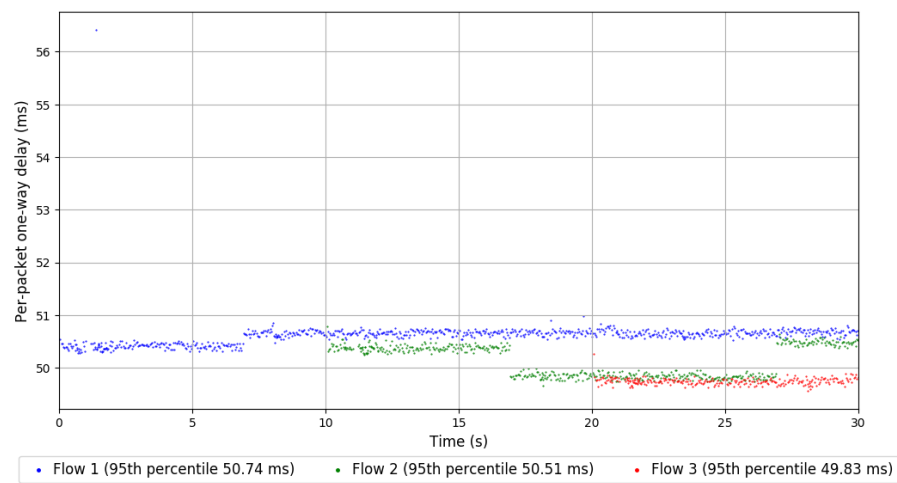
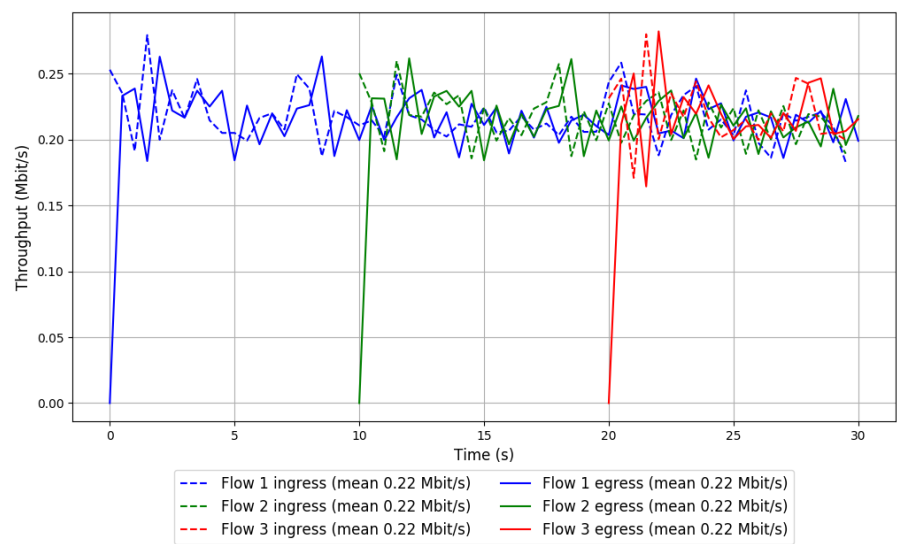


Run 4: Statistics of SReAM

Start at: 2018-05-26 03:58:34  
End at: 2018-05-26 03:59:04  
Local clock offset: -0.151 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 50.721 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.740 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.506 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.832 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

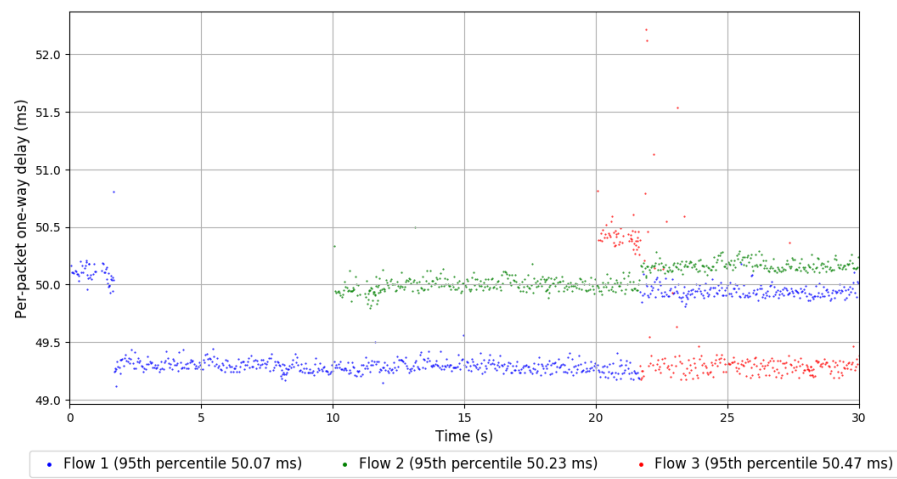
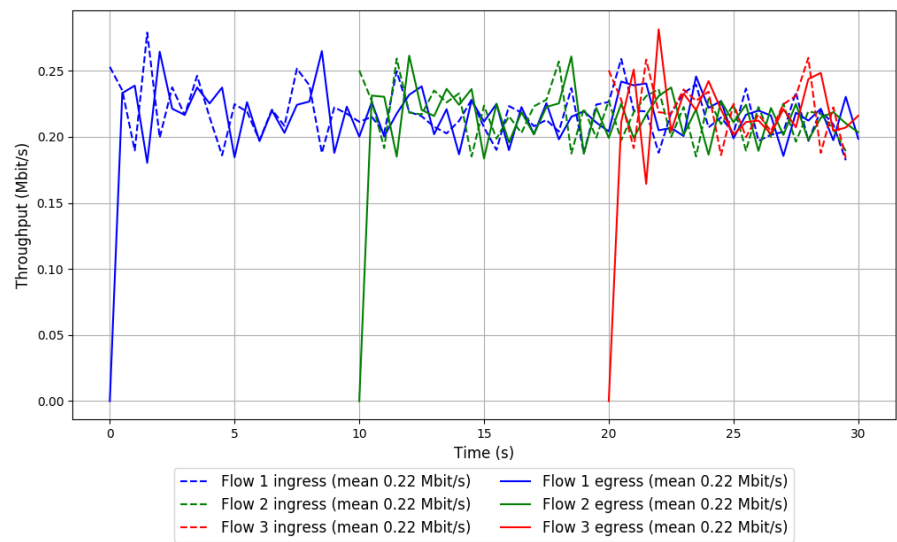


Run 5: Statistics of SReAM

Start at: 2018-05-26 04:21:30  
End at: 2018-05-26 04:22:00  
Local clock offset: 0.179 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 50.242 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.073 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.229 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.474 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

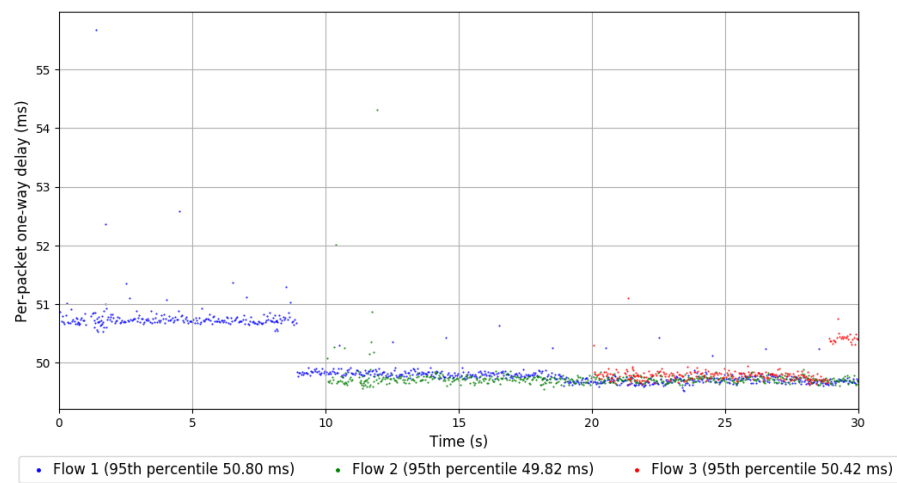
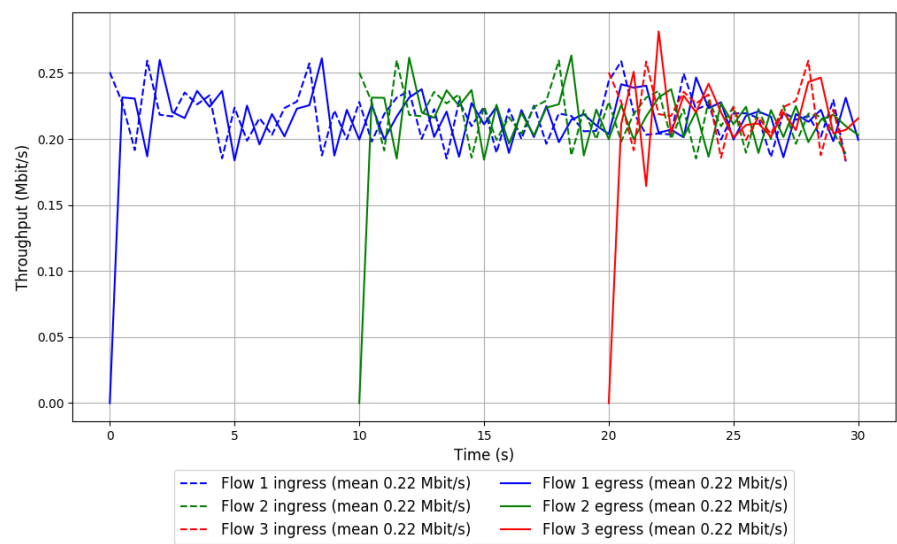


Run 6: Statistics of SReAM

Start at: 2018-05-26 04:44:22  
End at: 2018-05-26 04:44:52  
Local clock offset: -0.181 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 50.759 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.802 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.822 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.421 ms  
Loss rate: 0.00%

Run 6: Report of SCReAM — Data Link



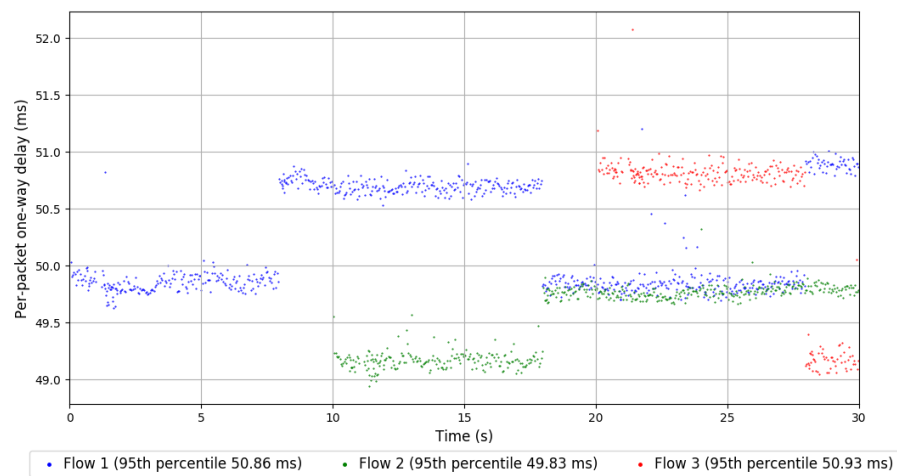
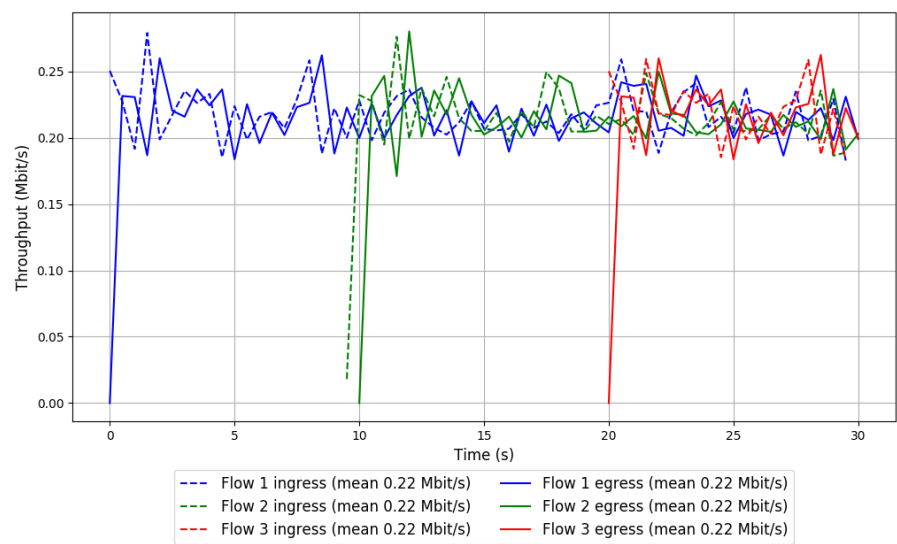
Run 7: Statistics of SReAM

Start at: 2018-05-26 05:07:33  
End at: 2018-05-26 05:08:03  
Local clock offset: -0.176 ms  
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 50.864 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.864 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.829 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.931 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-26 05:30:32

End at: 2018-05-26 05:31:02

Local clock offset: 0.172 ms

Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-05-26 08:22:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.526 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.810 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.565 ms

Loss rate: 0.00%

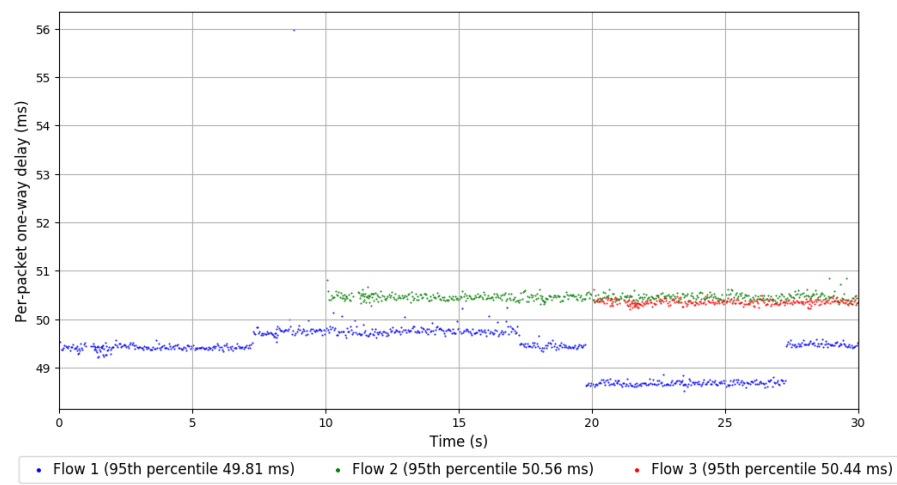
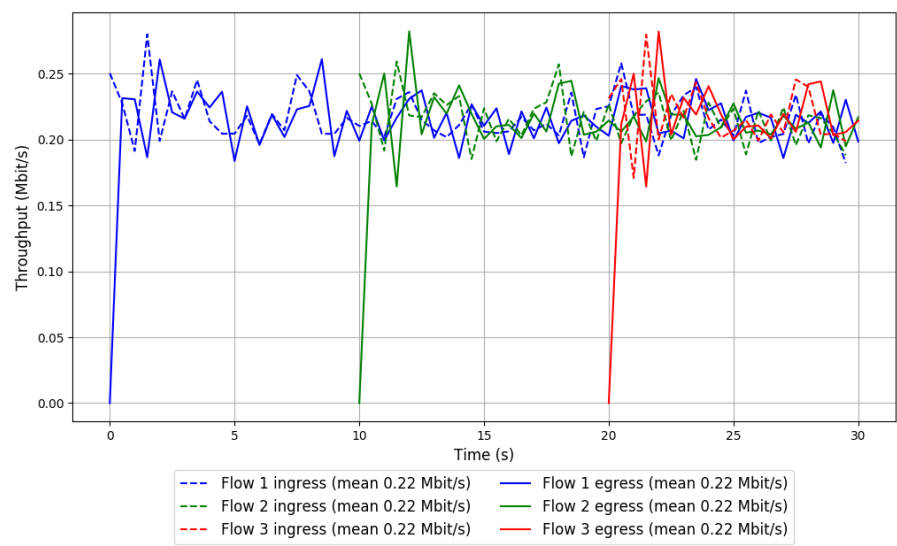
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.438 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

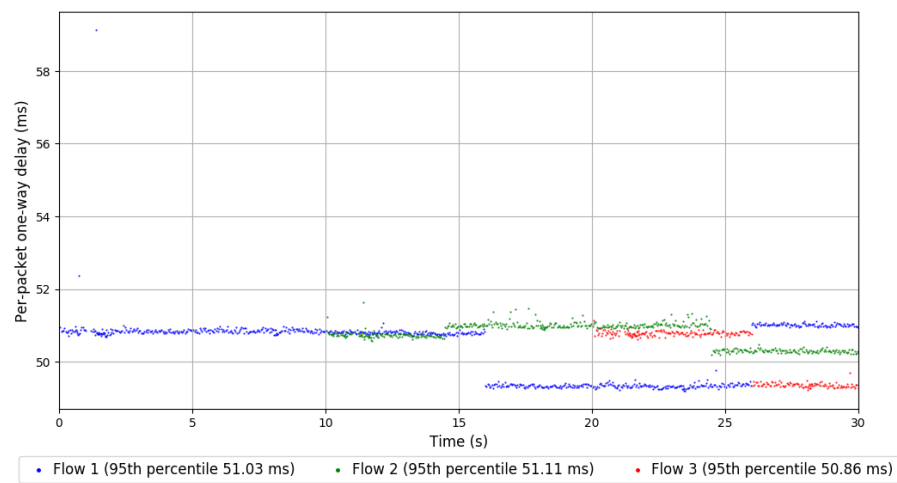
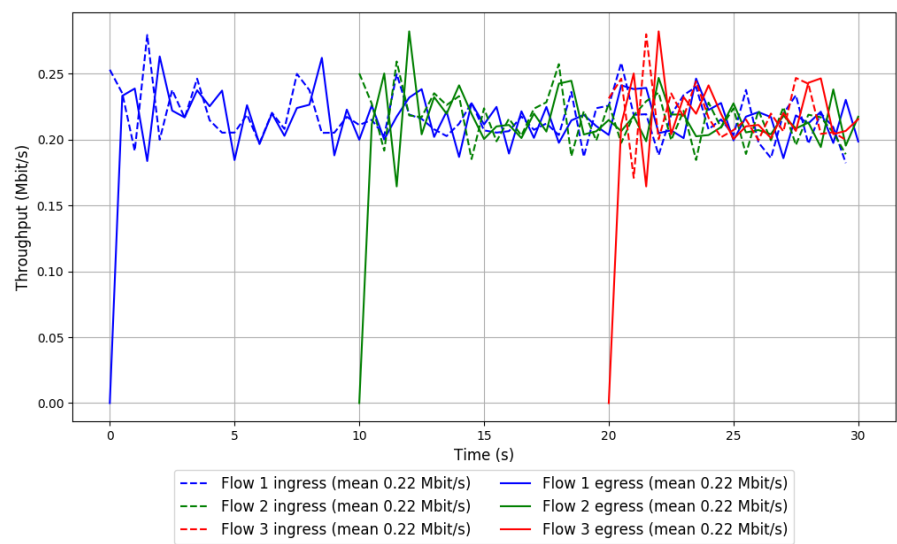


Run 9: Statistics of SReAM

Start at: 2018-05-26 05:53:35  
End at: 2018-05-26 05:54:05  
Local clock offset: -0.546 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 51.047 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.027 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.108 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.859 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

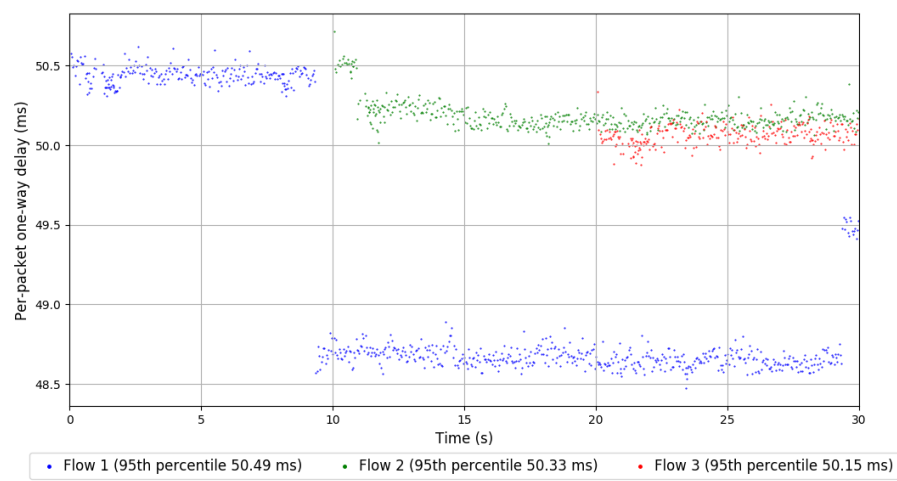
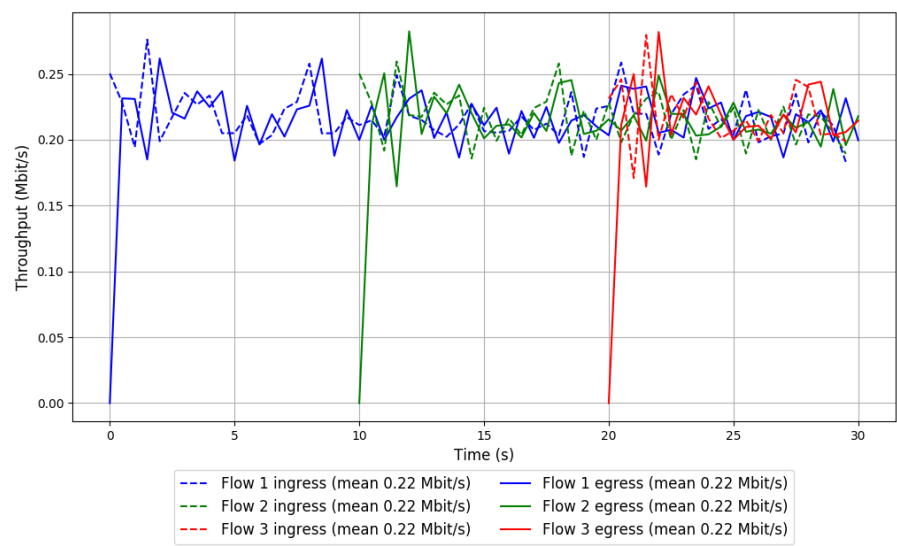


Run 10: Statistics of SReAM

Start at: 2018-05-26 06:16:50  
End at: 2018-05-26 06:17:20  
Local clock offset: 0.251 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-05-26 08:22:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 50.479 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.489 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.328 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.153 ms  
Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



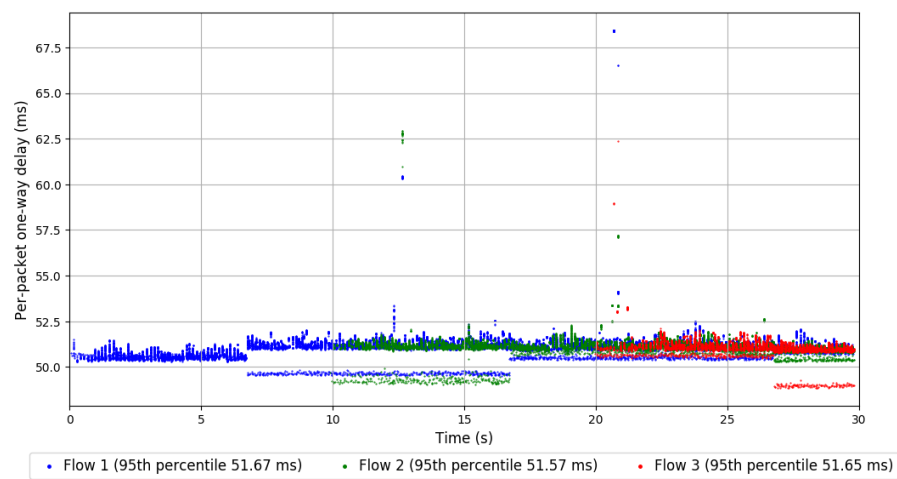
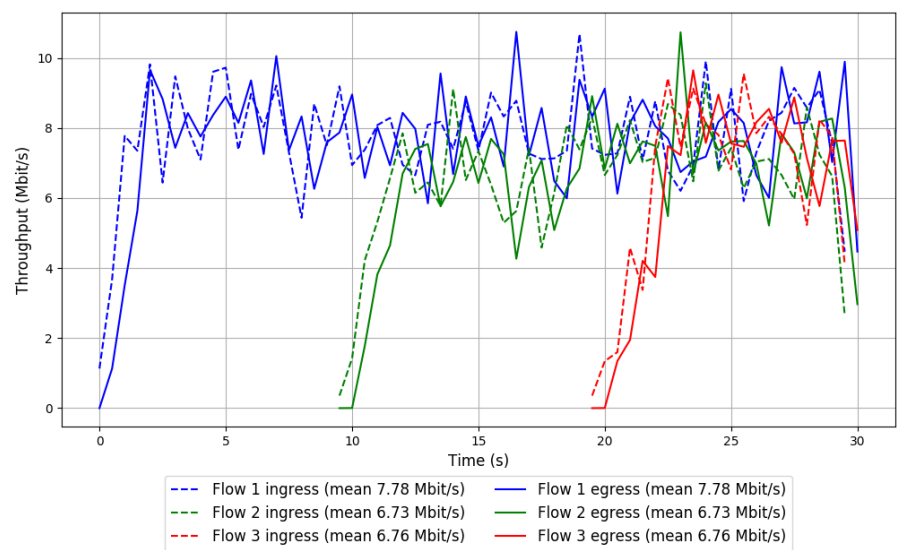
Run 1: Statistics of Sprout

Start at: 2018-05-26 02:56:34  
End at: 2018-05-26 02:57:04  
Local clock offset: -0.264 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-05-26 08:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.52 Mbit/s  
95th percentile per-packet one-way delay: 51.642 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.78 Mbit/s  
95th percentile per-packet one-way delay: 51.666 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.73 Mbit/s  
95th percentile per-packet one-way delay: 51.571 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.76 Mbit/s  
95th percentile per-packet one-way delay: 51.650 ms  
Loss rate: 0.00%



Run 1: Report of Sprout — Data Link

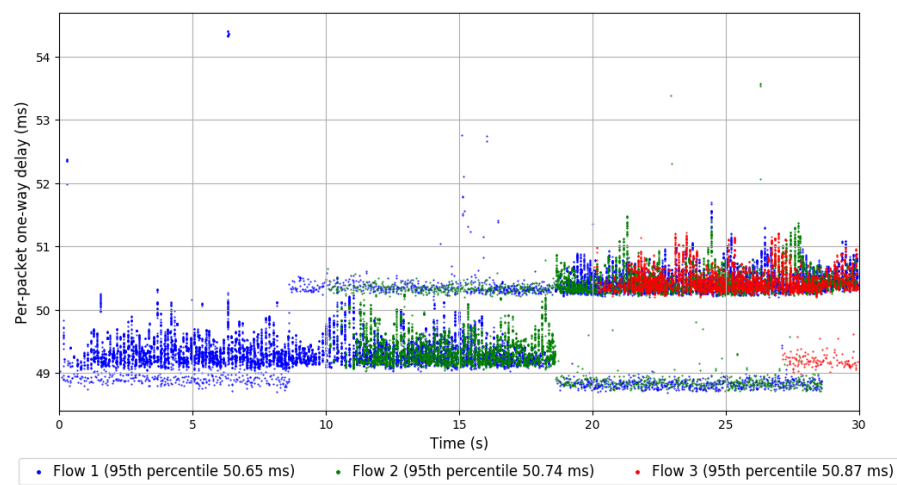
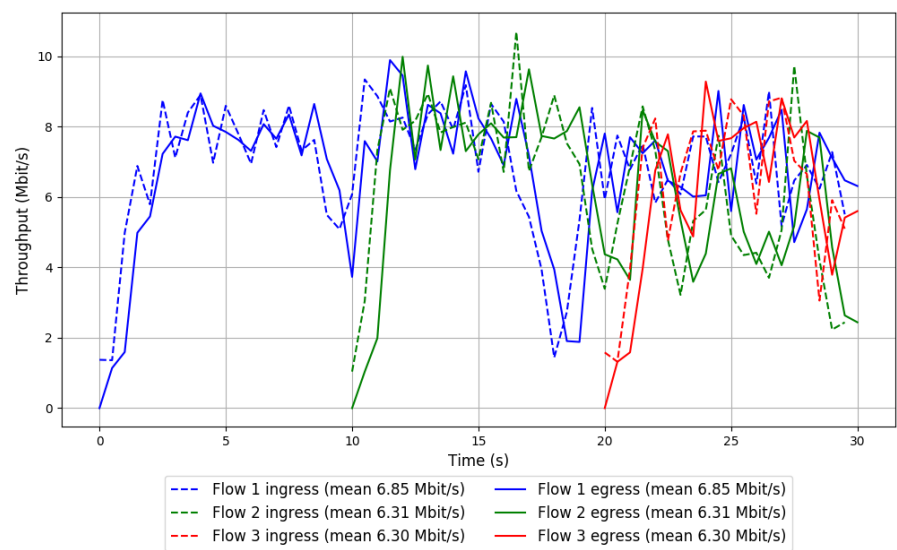


Run 2: Statistics of Sprout

Start at: 2018-05-26 03:19:33  
End at: 2018-05-26 03:20:03  
Local clock offset: -0.269 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-05-26 08:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.13 Mbit/s  
95th percentile per-packet one-way delay: 50.731 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.85 Mbit/s  
95th percentile per-packet one-way delay: 50.653 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.31 Mbit/s  
95th percentile per-packet one-way delay: 50.741 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.30 Mbit/s  
95th percentile per-packet one-way delay: 50.867 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

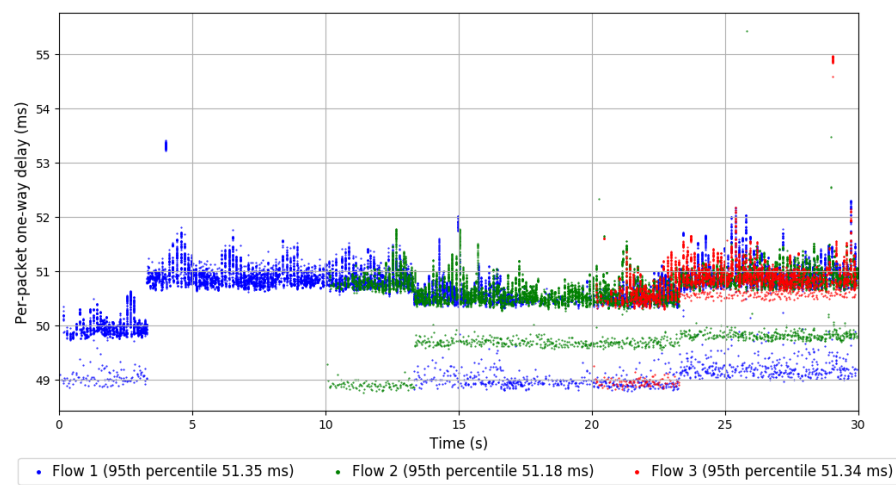
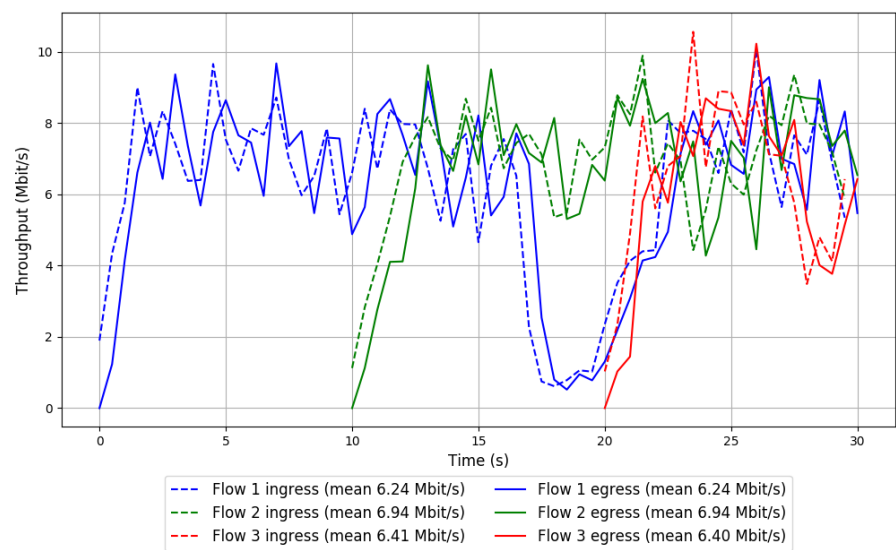


Run 3: Statistics of Sprout

Start at: 2018-05-26 03:42:28  
End at: 2018-05-26 03:42:58  
Local clock offset: -0.263 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-05-26 08:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.97 Mbit/s  
95th percentile per-packet one-way delay: 51.287 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.24 Mbit/s  
95th percentile per-packet one-way delay: 51.351 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.94 Mbit/s  
95th percentile per-packet one-way delay: 51.179 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.40 Mbit/s  
95th percentile per-packet one-way delay: 51.345 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

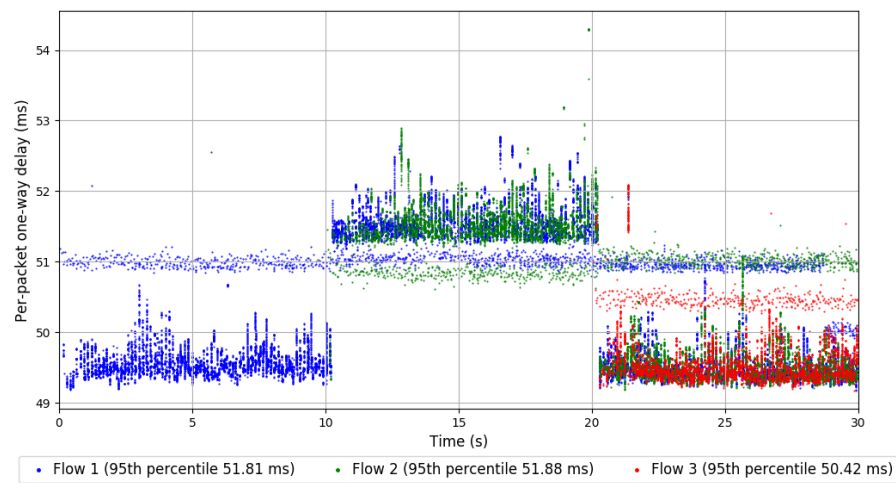
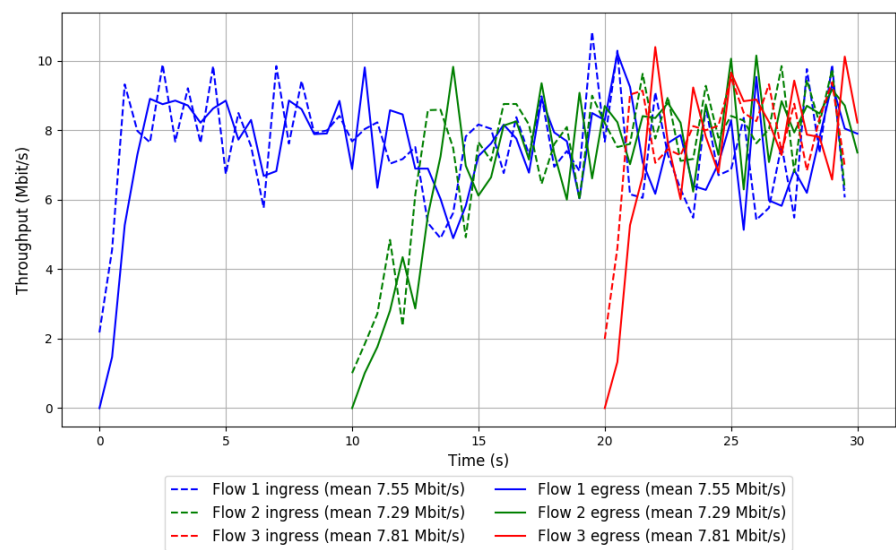


Run 4: Statistics of Sprout

Start at: 2018-05-26 04:05:21  
End at: 2018-05-26 04:05:51  
Local clock offset: -0.595 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-05-26 08:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.97 Mbit/s  
95th percentile per-packet one-way delay: 51.795 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.55 Mbit/s  
95th percentile per-packet one-way delay: 51.807 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 7.29 Mbit/s  
95th percentile per-packet one-way delay: 51.883 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.81 Mbit/s  
95th percentile per-packet one-way delay: 50.420 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



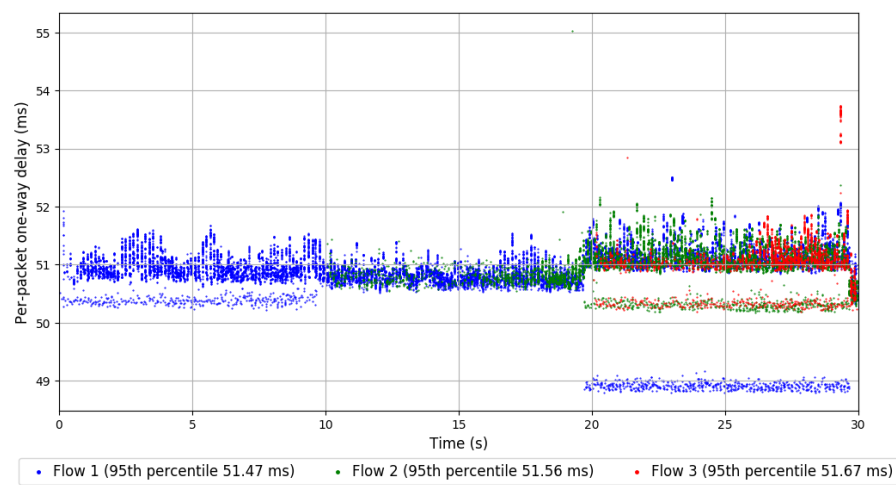
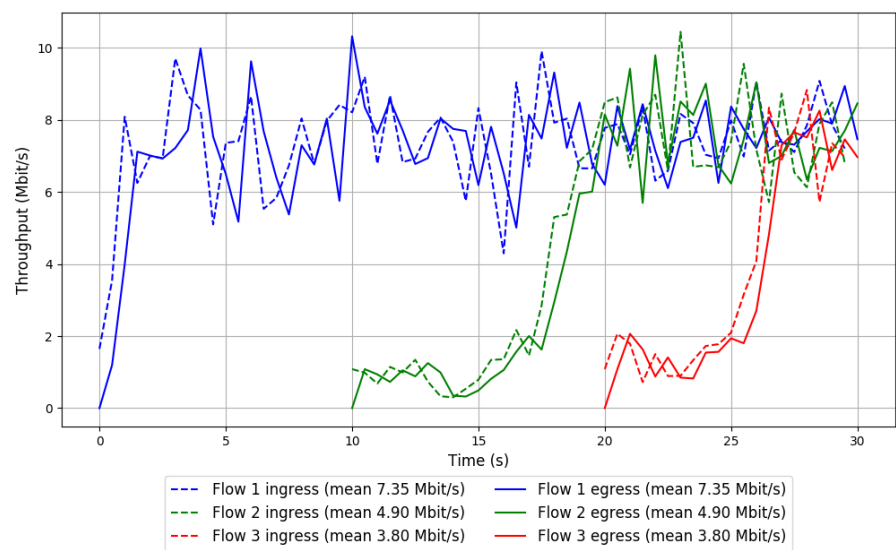
Run 5: Statistics of Sprout

Start at: 2018-05-26 04:28:21  
End at: 2018-05-26 04:28:51  
Local clock offset: -0.238 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-05-26 08:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.86 Mbit/s  
95th percentile per-packet one-way delay: 51.524 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.35 Mbit/s  
95th percentile per-packet one-way delay: 51.469 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.90 Mbit/s  
95th percentile per-packet one-way delay: 51.560 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.80 Mbit/s  
95th percentile per-packet one-way delay: 51.667 ms  
Loss rate: 0.00%



Run 5: Report of Sprout — Data Link

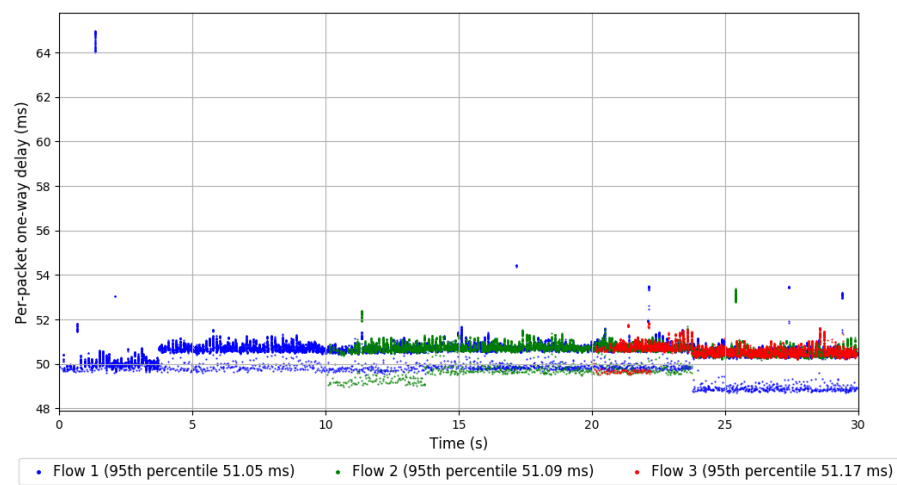
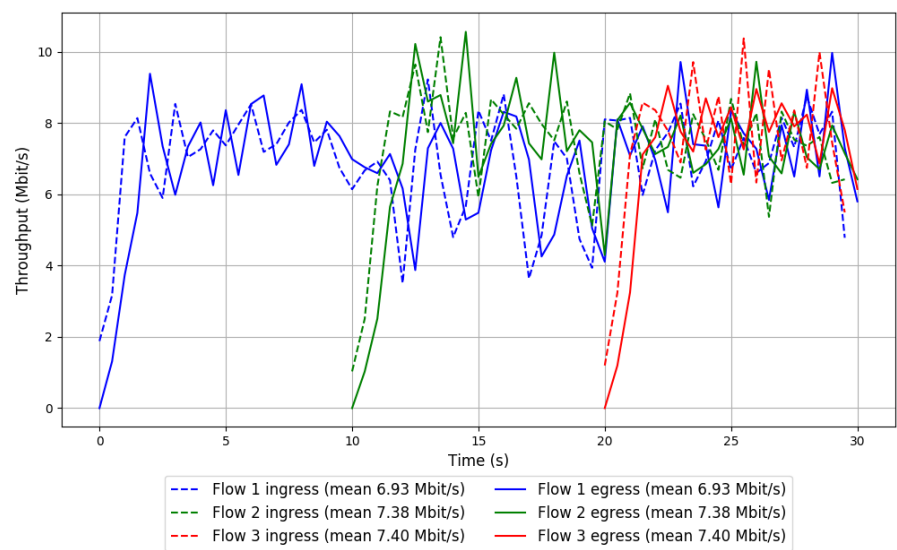


Run 6: Statistics of Sprout

Start at: 2018-05-26 04:51:17  
End at: 2018-05-26 04:51:47  
Local clock offset: -0.176 ms  
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-05-26 08:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.28 Mbit/s  
95th percentile per-packet one-way delay: 51.080 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.93 Mbit/s  
95th percentile per-packet one-way delay: 51.055 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 7.38 Mbit/s  
95th percentile per-packet one-way delay: 51.085 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 7.40 Mbit/s  
95th percentile per-packet one-way delay: 51.174 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

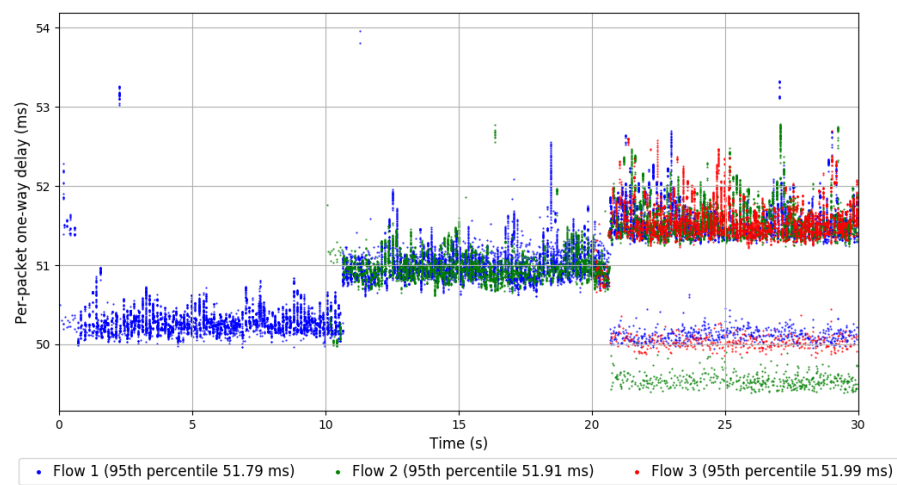
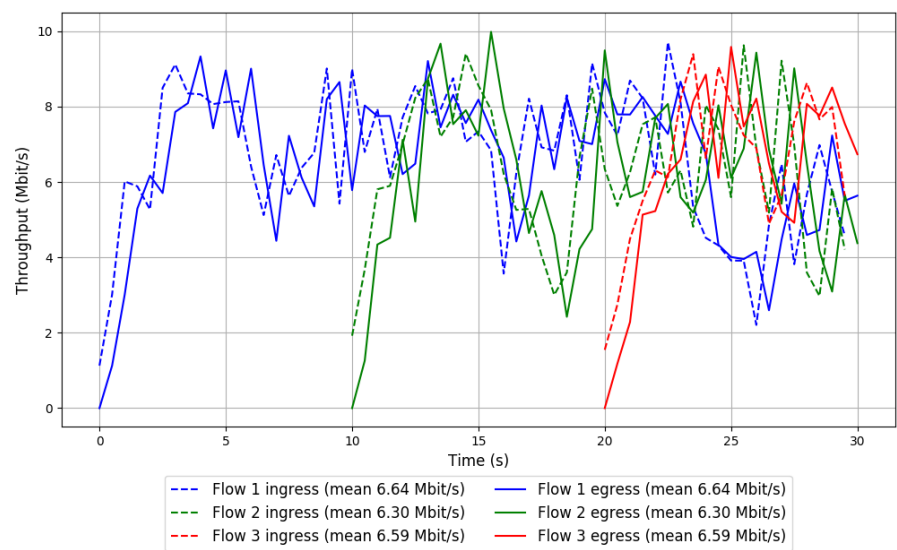


Run 7: Statistics of Sprout

Start at: 2018-05-26 05:14:31  
End at: 2018-05-26 05:15:01  
Local clock offset: -0.561 ms  
Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2018-05-26 08:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.00 Mbit/s  
95th percentile per-packet one-way delay: 51.884 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.64 Mbit/s  
95th percentile per-packet one-way delay: 51.791 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.30 Mbit/s  
95th percentile per-packet one-way delay: 51.913 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.59 Mbit/s  
95th percentile per-packet one-way delay: 51.988 ms  
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-26 05:37:36

End at: 2018-05-26 05:38:06

Local clock offset: -0.21 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-05-26 08:22:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 10.10 Mbit/s

95th percentile per-packet one-way delay: 51.380 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 51.297 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 51.410 ms

Loss rate: 0.00%

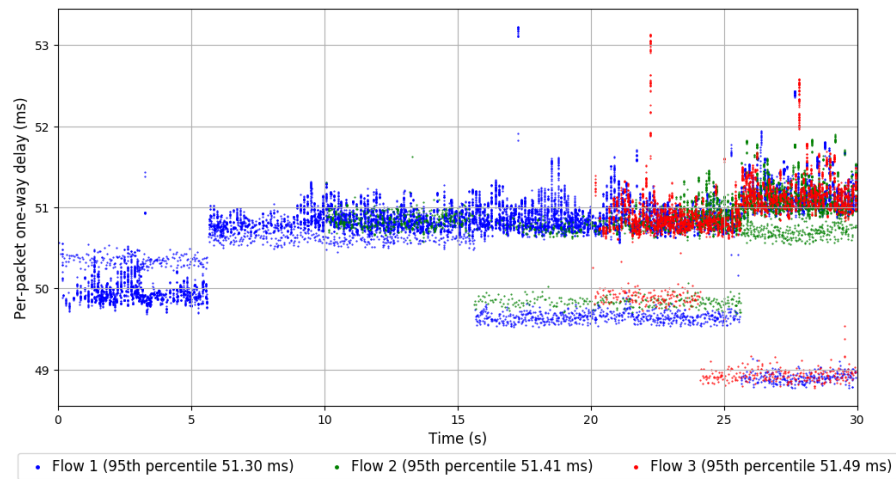
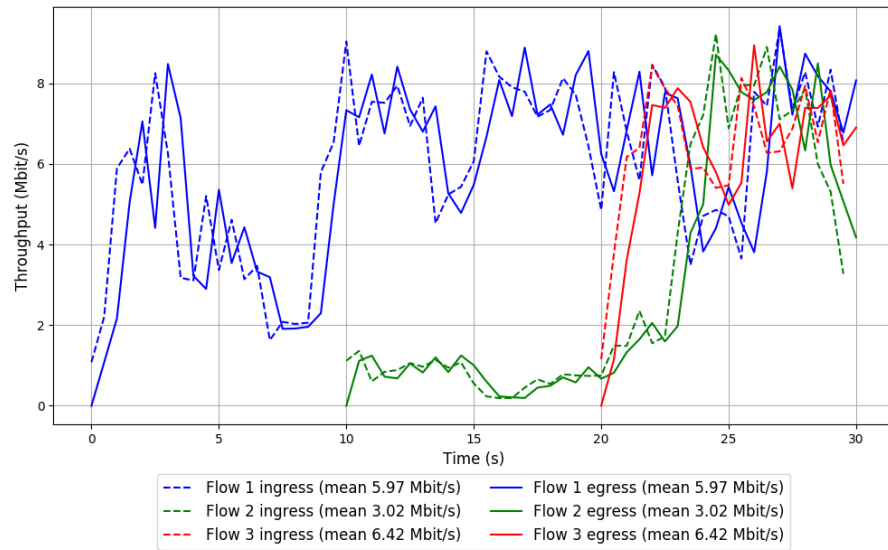
-- Flow 3:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 51.488 ms

Loss rate: 0.00%

## Run 8: Report of Sprout — Data Link



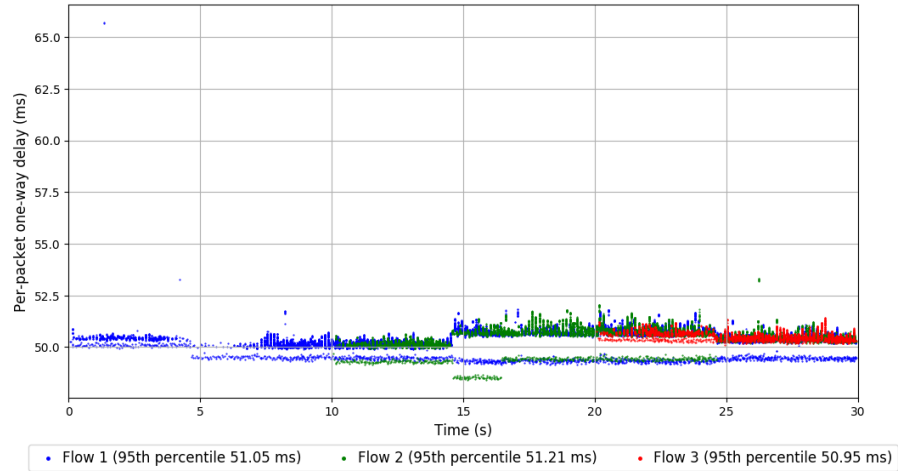
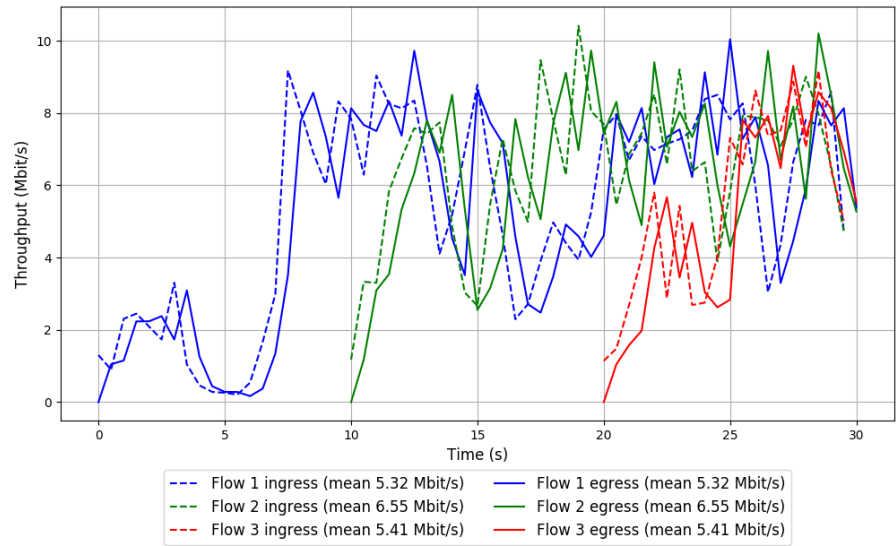
Run 9: Statistics of Sprout

Start at: 2018-05-26 06:00:37  
End at: 2018-05-26 06:01:07  
Local clock offset: 0.195 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-05-26 08:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.47 Mbit/s  
95th percentile per-packet one-way delay: 51.090 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.32 Mbit/s  
95th percentile per-packet one-way delay: 51.047 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.55 Mbit/s  
95th percentile per-packet one-way delay: 51.212 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.41 Mbit/s  
95th percentile per-packet one-way delay: 50.950 ms  
Loss rate: 0.00%



## Run 9: Report of Sprout — Data Link

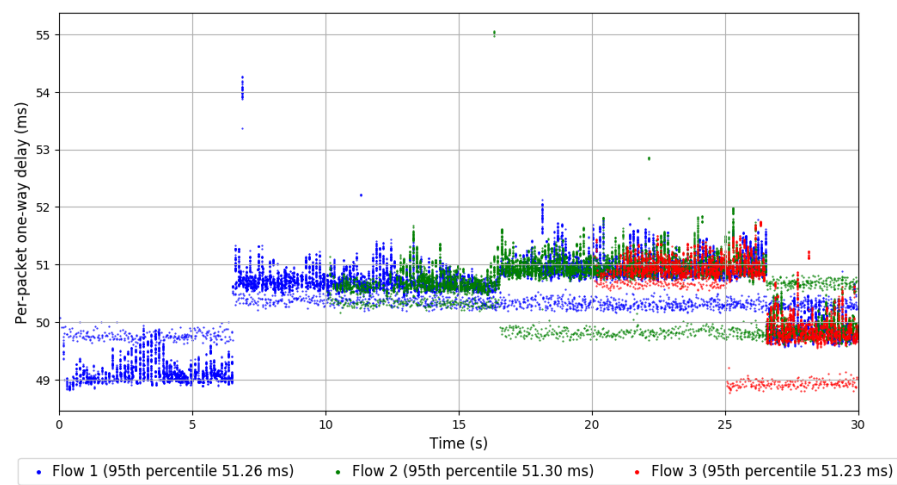
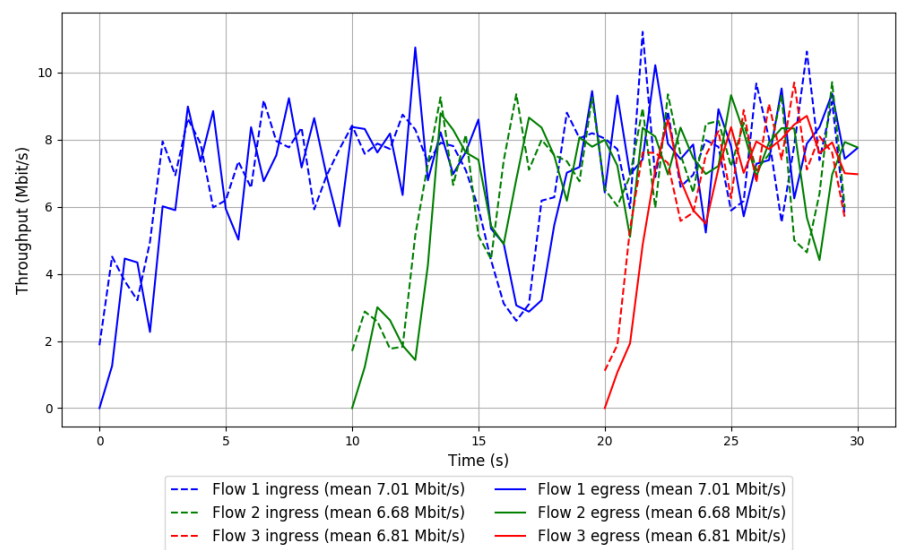


Run 10: Statistics of Sprout

Start at: 2018-05-26 06:23:45  
End at: 2018-05-26 06:24:15  
Local clock offset: -0.153 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-05-26 08:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.70 Mbit/s  
95th percentile per-packet one-way delay: 51.270 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.01 Mbit/s  
95th percentile per-packet one-way delay: 51.259 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.68 Mbit/s  
95th percentile per-packet one-way delay: 51.295 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.81 Mbit/s  
95th percentile per-packet one-way delay: 51.229 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

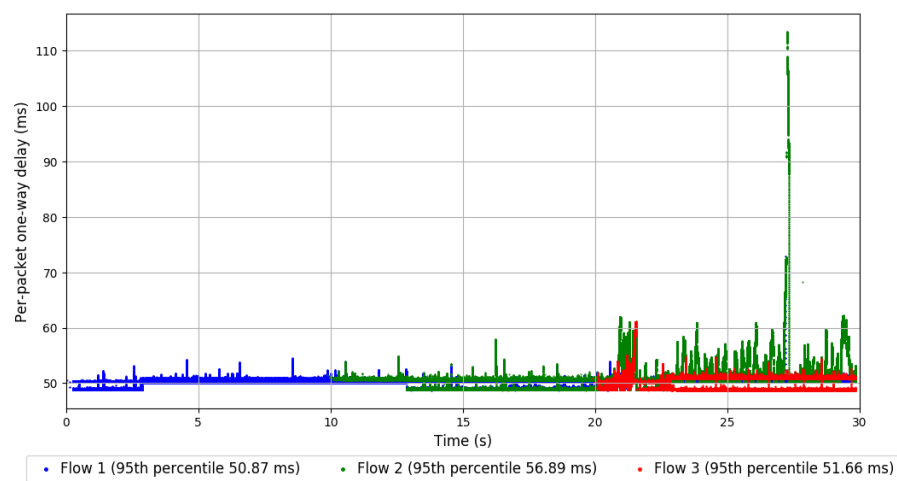
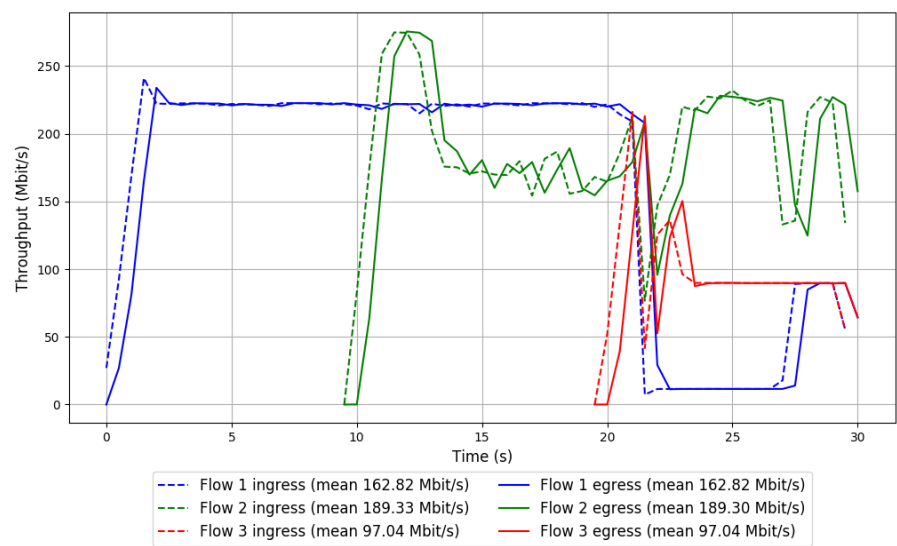


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-26 02:53:28
End at: 2018-05-26 02:53:58
Local clock offset: -0.245 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-05-26 08:28:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.10 Mbit/s
95th percentile per-packet one-way delay: 53.809 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 162.82 Mbit/s
95th percentile per-packet one-way delay: 50.868 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 189.30 Mbit/s
95th percentile per-packet one-way delay: 56.894 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 51.663 ms
Loss rate: 0.00%
```

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

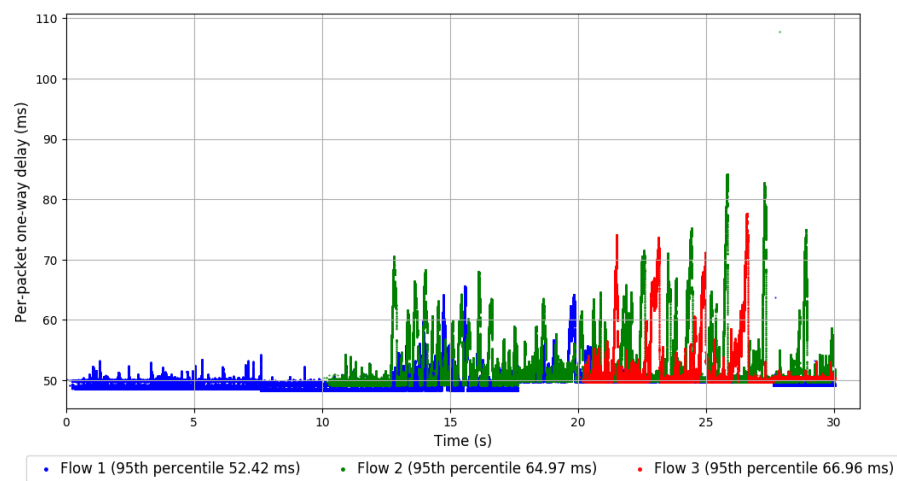
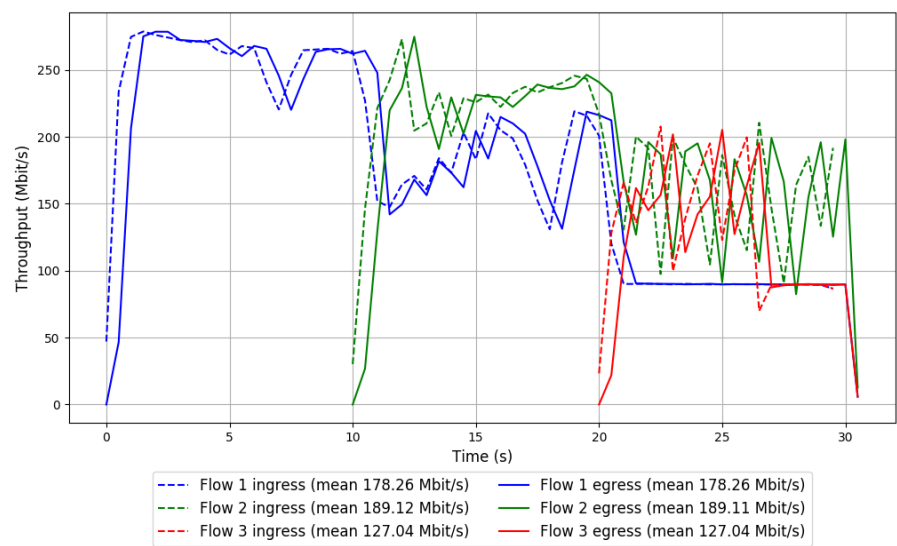


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-26 03:16:24  
End at: 2018-05-26 03:16:54  
Local clock offset: 0.147 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-05-26 08:29:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 346.44 Mbit/s  
95th percentile per-packet one-way delay: 61.603 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 178.26 Mbit/s  
95th percentile per-packet one-way delay: 52.424 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 189.11 Mbit/s  
95th percentile per-packet one-way delay: 64.969 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 127.04 Mbit/s  
95th percentile per-packet one-way delay: 66.964 ms  
Loss rate: 0.00%

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



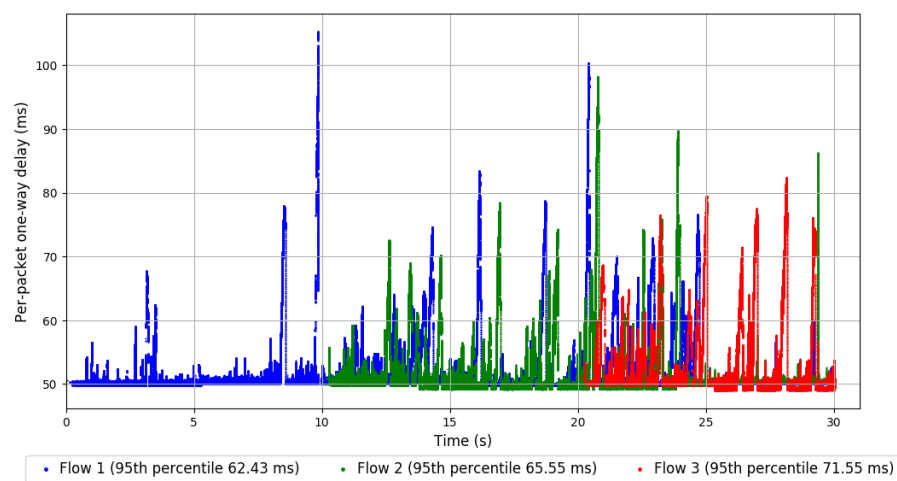
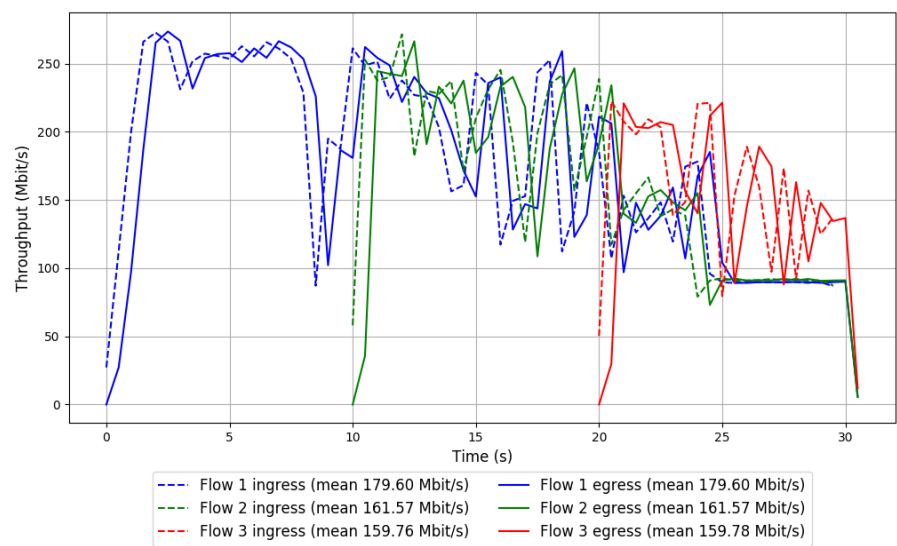
Run 3: Statistics of TaoVA-100x

Start at: 2018-05-26 03:39:16  
End at: 2018-05-26 03:39:46  
Local clock offset: 0.176 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-05-26 08:29:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 340.31 Mbit/s  
95th percentile per-packet one-way delay: 65.519 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 179.60 Mbit/s  
95th percentile per-packet one-way delay: 62.427 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 161.57 Mbit/s  
95th percentile per-packet one-way delay: 65.545 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 159.78 Mbit/s  
95th percentile per-packet one-way delay: 71.548 ms  
Loss rate: 0.00%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-26 04:02:17

End at: 2018-05-26 04:02:47

Local clock offset: -0.201 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-05-26 08:29:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 247.08 Mbit/s

95th percentile per-packet one-way delay: 54.340 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 124.63 Mbit/s

95th percentile per-packet one-way delay: 55.867 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 132.41 Mbit/s

95th percentile per-packet one-way delay: 52.566 ms

Loss rate: 0.00%

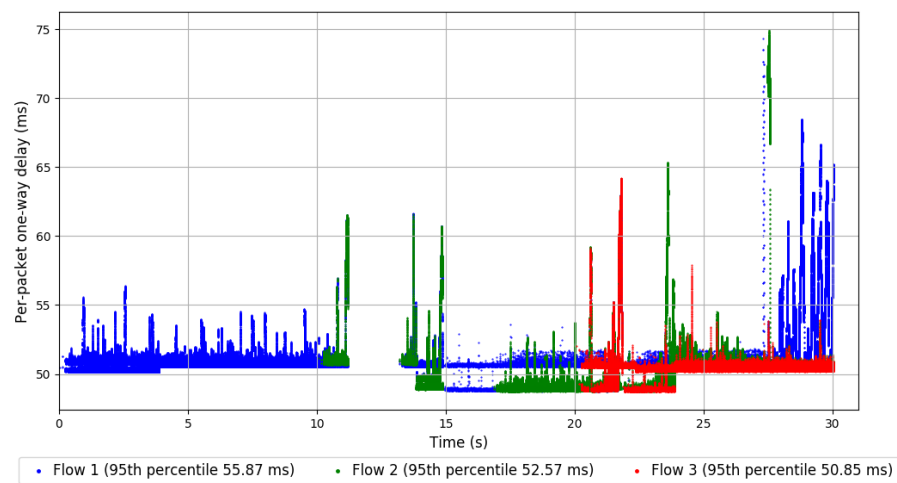
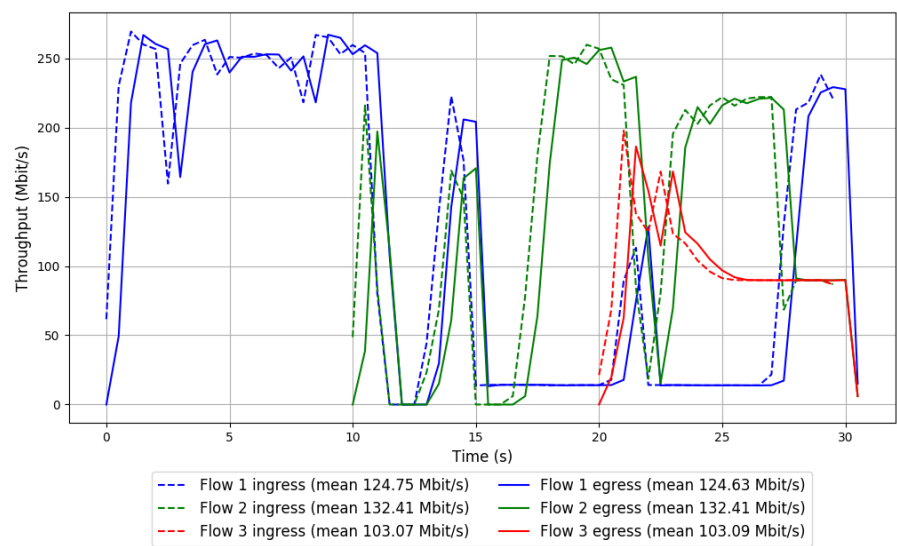
-- Flow 3:

Average throughput: 103.09 Mbit/s

95th percentile per-packet one-way delay: 50.853 ms

Loss rate: 0.00%

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

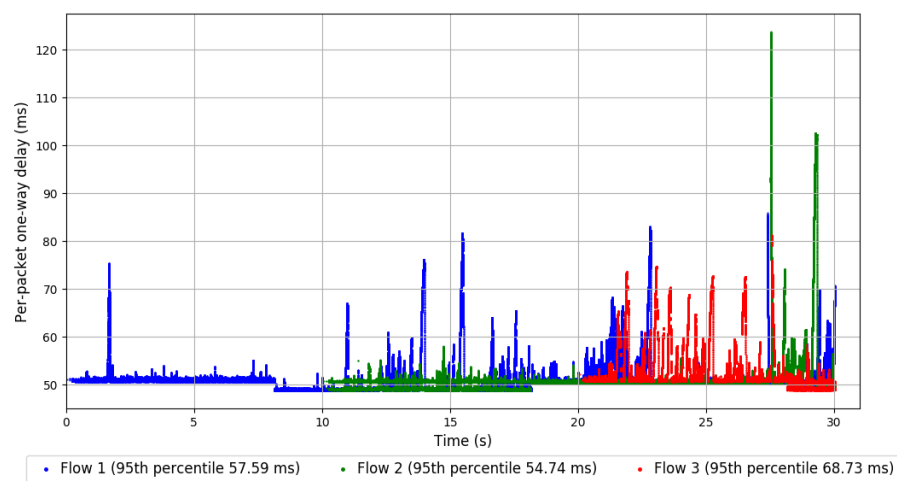
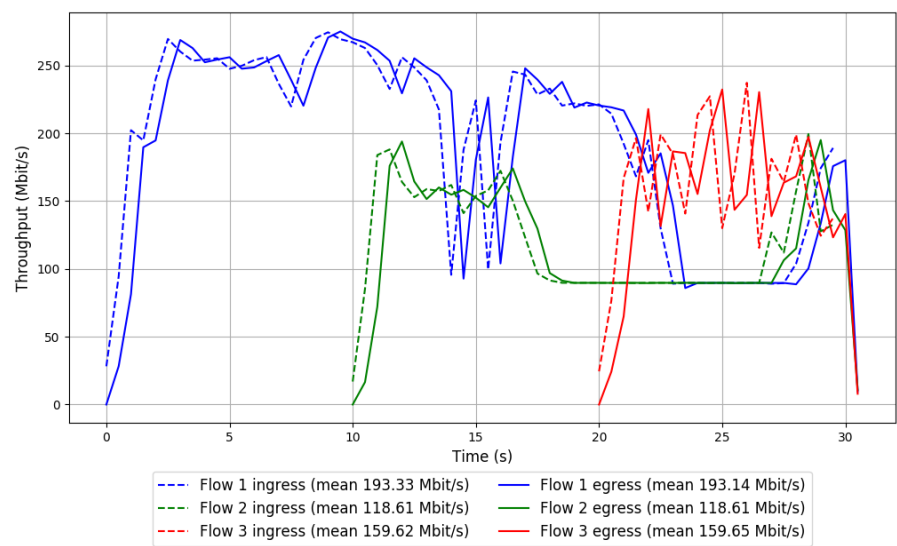


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-26 04:25:13  
End at: 2018-05-26 04:25:43  
Local clock offset: -0.201 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-05-26 08:30:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 325.19 Mbit/s  
95th percentile per-packet one-way delay: 60.220 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 193.14 Mbit/s  
95th percentile per-packet one-way delay: 57.595 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 118.61 Mbit/s  
95th percentile per-packet one-way delay: 54.742 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 159.65 Mbit/s  
95th percentile per-packet one-way delay: 68.735 ms  
Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-26 04:48:07

End at: 2018-05-26 04:48:37

Local clock offset: -0.591 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-05-26 08:31:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 329.24 Mbit/s

95th percentile per-packet one-way delay: 66.243 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 175.04 Mbit/s

95th percentile per-packet one-way delay: 63.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.06 Mbit/s

95th percentile per-packet one-way delay: 63.287 ms

Loss rate: 0.00%

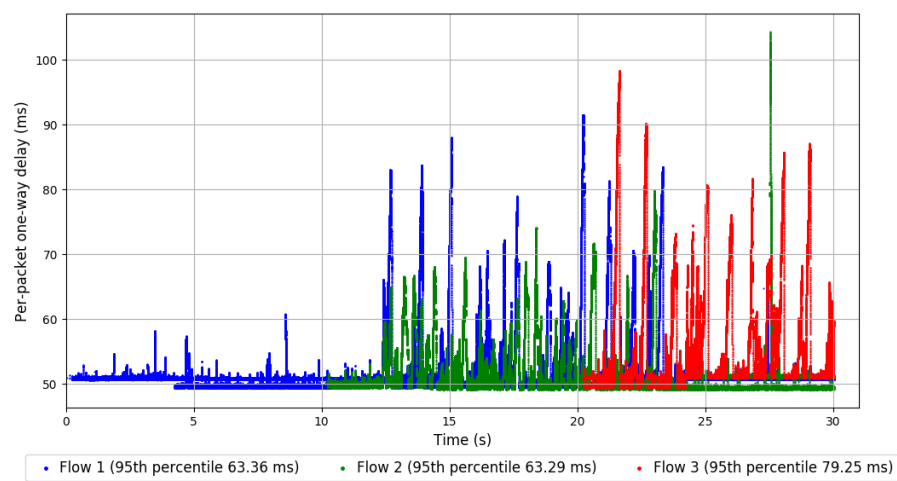
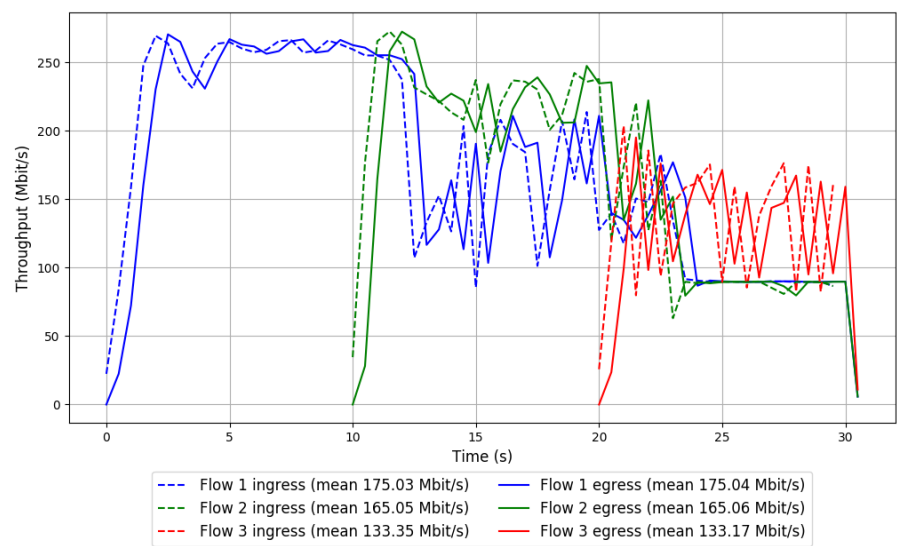
-- Flow 3:

Average throughput: 133.17 Mbit/s

95th percentile per-packet one-way delay: 79.252 ms

Loss rate: 0.16%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-26 05:11:17

End at: 2018-05-26 05:11:47

Local clock offset: 0.189 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-05-26 08:34:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 376.88 Mbit/s

95th percentile per-packet one-way delay: 53.906 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 209.38 Mbit/s

95th percentile per-packet one-way delay: 51.549 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 192.55 Mbit/s

95th percentile per-packet one-way delay: 54.092 ms

Loss rate: 0.01%

-- Flow 3:

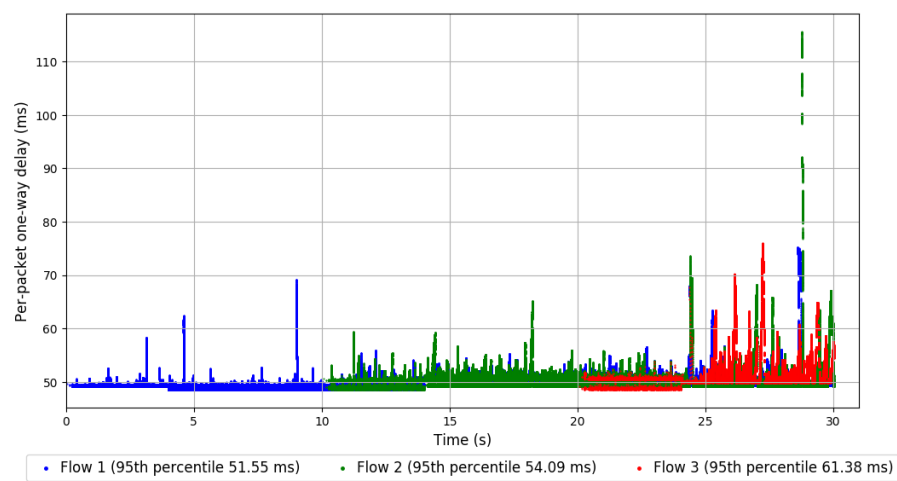
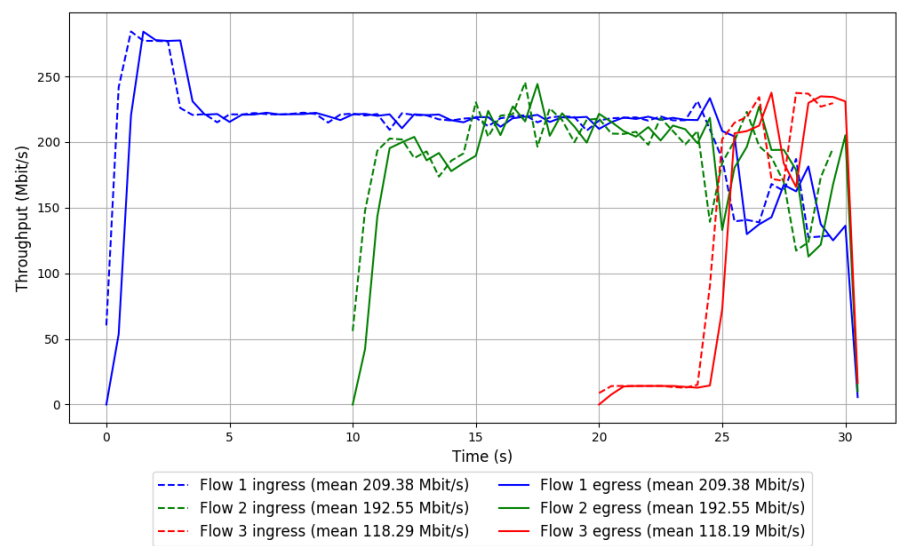
Average throughput: 118.19 Mbit/s

95th percentile per-packet one-way delay: 61.378 ms

Loss rate: 0.09%



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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-26 05:34:16

End at: 2018-05-26 05:34:46

Local clock offset: 0.185 ms

Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-05-26 08:35:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 409.54 Mbit/s

95th percentile per-packet one-way delay: 63.553 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 222.16 Mbit/s

95th percentile per-packet one-way delay: 57.621 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 192.18 Mbit/s

95th percentile per-packet one-way delay: 66.180 ms

Loss rate: 0.01%

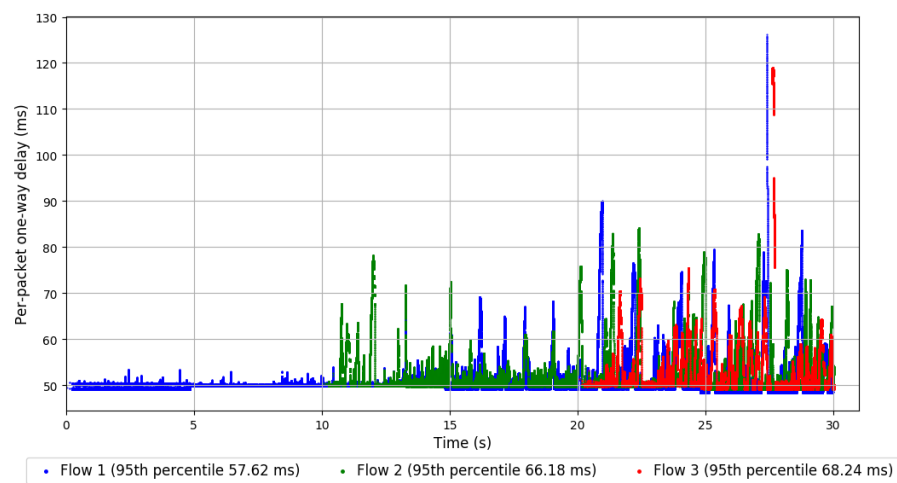
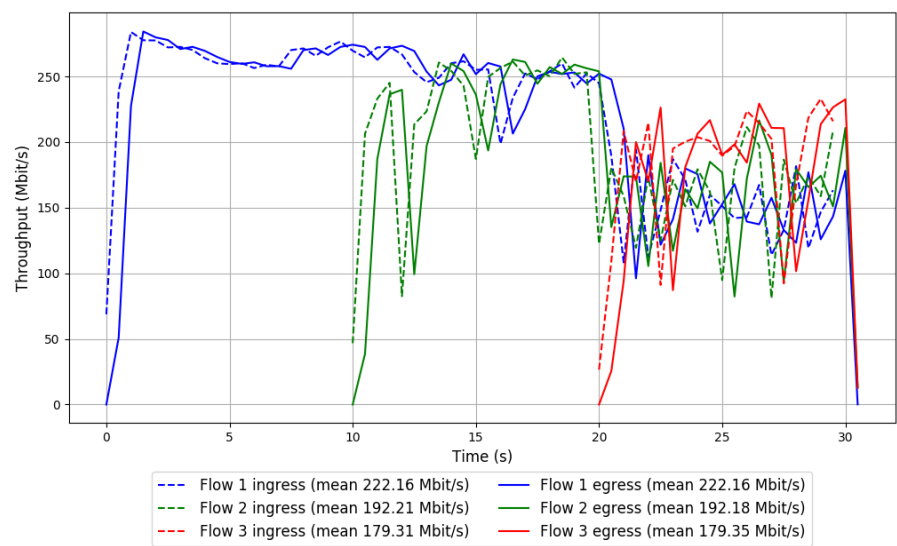
-- Flow 3:

Average throughput: 179.35 Mbit/s

95th percentile per-packet one-way delay: 68.236 ms

Loss rate: 0.00%

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

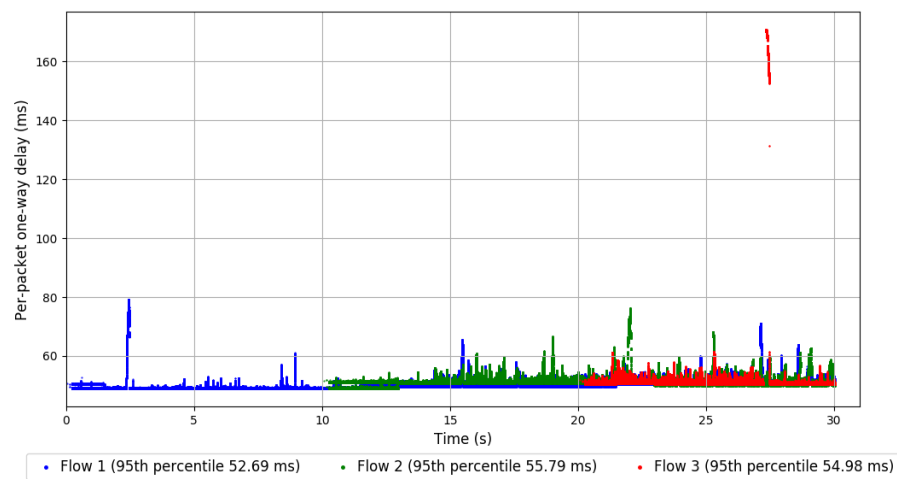
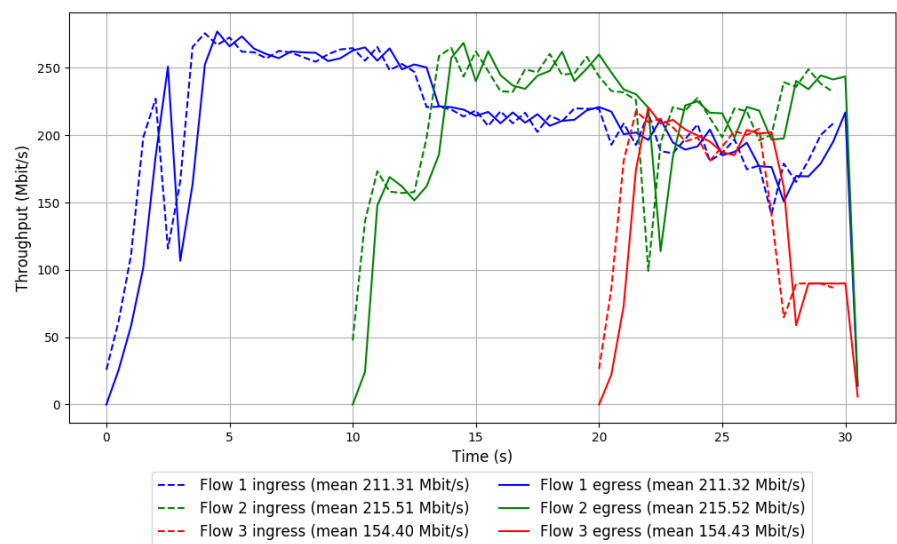


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-26 05:57:18  
End at: 2018-05-26 05:57:48  
Local clock offset: -0.182 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-05-26 08:39:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 406.15 Mbit/s  
95th percentile per-packet one-way delay: 54.265 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 211.32 Mbit/s  
95th percentile per-packet one-way delay: 52.685 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 215.52 Mbit/s  
95th percentile per-packet one-way delay: 55.786 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 154.43 Mbit/s  
95th percentile per-packet one-way delay: 54.983 ms  
Loss rate: 0.00%

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

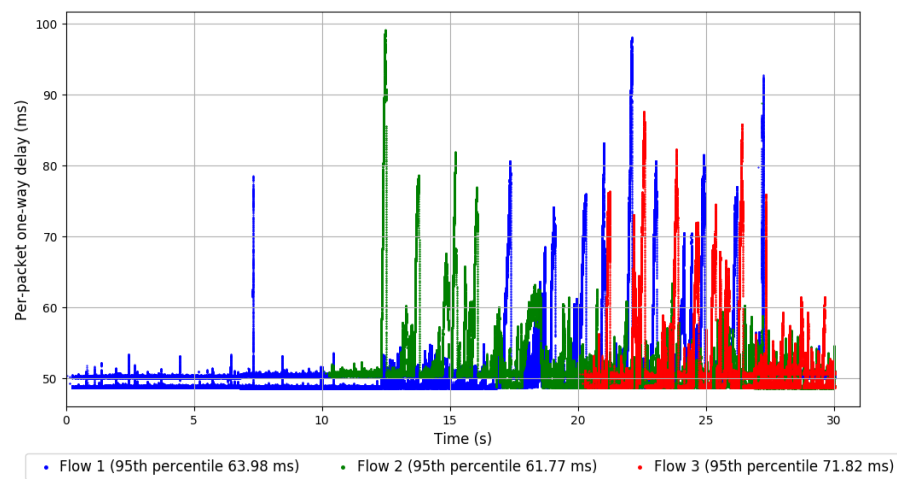
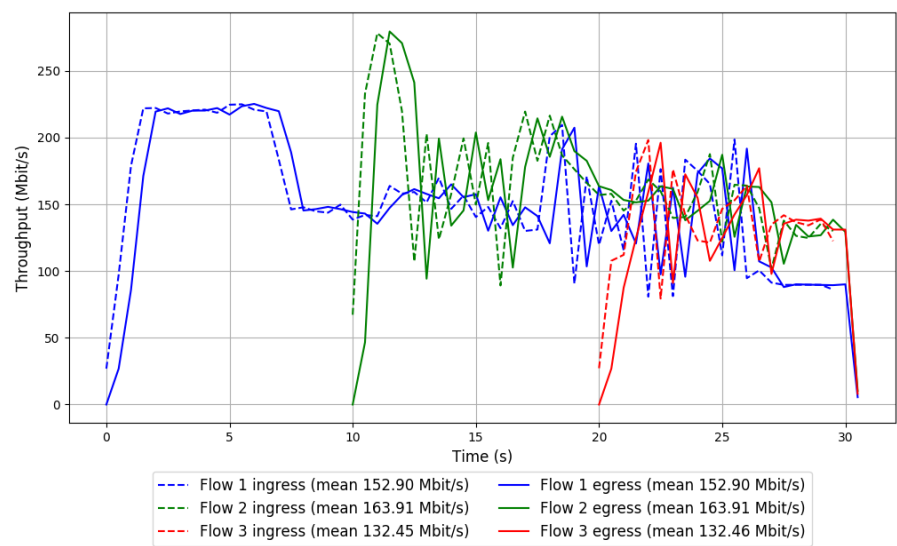


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-26 06:20:34  
End at: 2018-05-26 06:21:04  
Local clock offset: -0.103 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-05-26 08:39:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 306.11 Mbit/s  
95th percentile per-packet one-way delay: 65.572 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 152.90 Mbit/s  
95th percentile per-packet one-way delay: 63.979 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 163.91 Mbit/s  
95th percentile per-packet one-way delay: 61.771 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 132.46 Mbit/s  
95th percentile per-packet one-way delay: 71.821 ms  
Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-26 02:42:27

End at: 2018-05-26 02:42:57

Local clock offset: -0.633 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-05-26 08:39:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 54.22 Mbit/s

95th percentile per-packet one-way delay: 51.977 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 52.085 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.24 Mbit/s

95th percentile per-packet one-way delay: 51.859 ms

Loss rate: 0.01%

-- Flow 3:

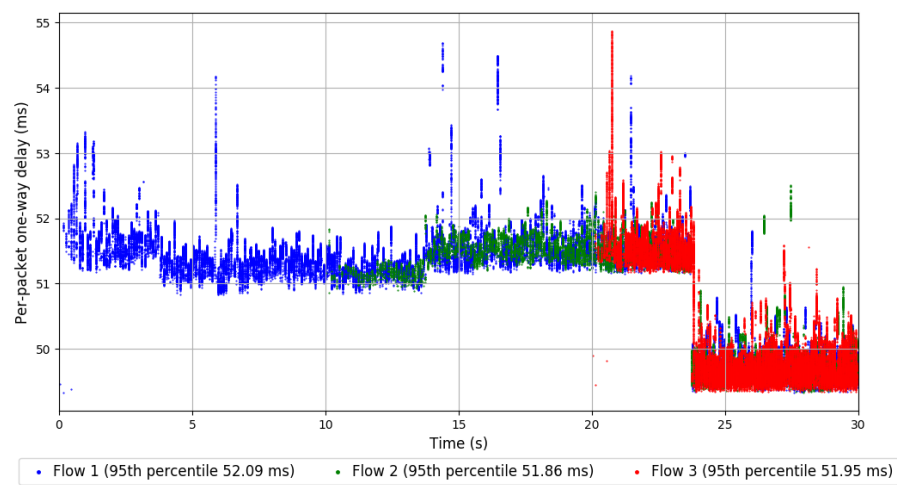
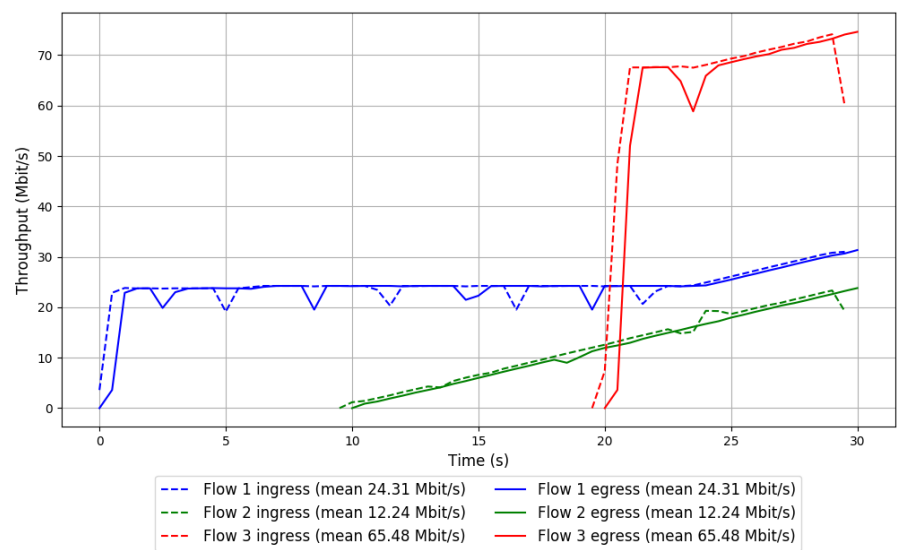
Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 51.948 ms

Loss rate: 0.00%



Run 1: Report of TCP Vegas — Data Link

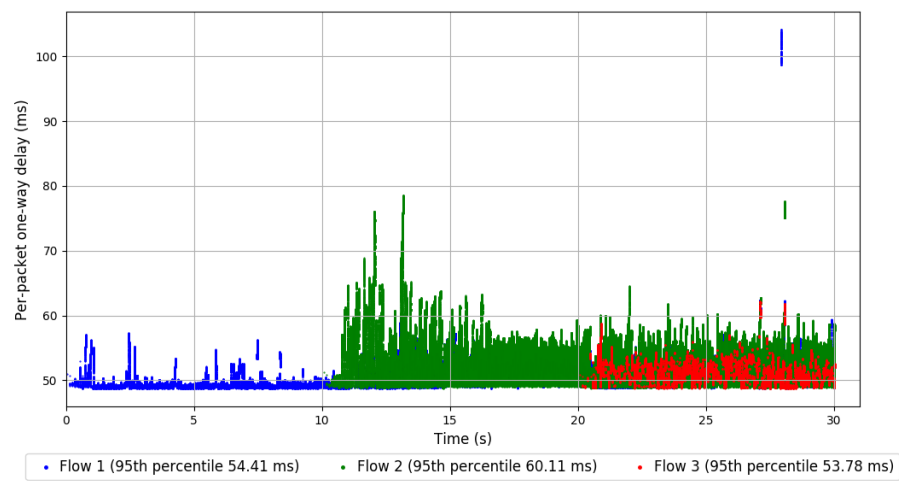
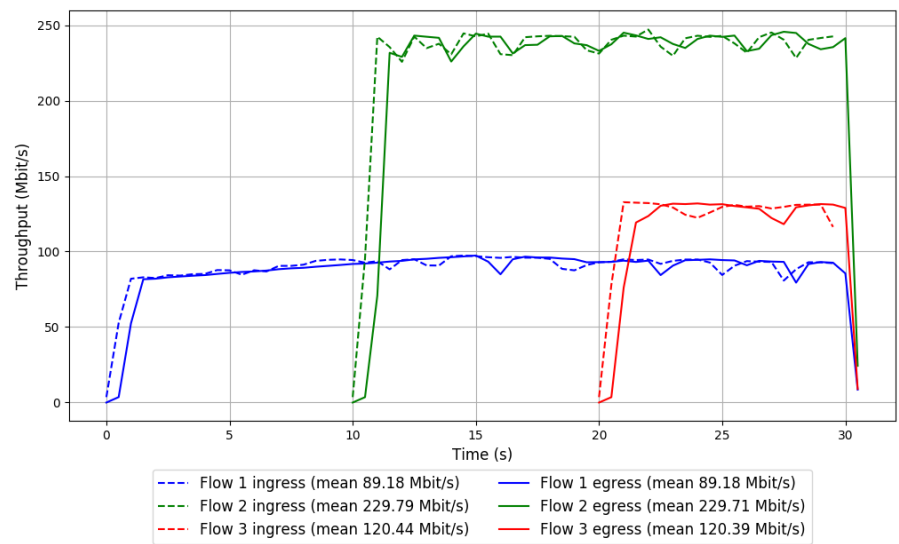


Run 2: Statistics of TCP Vegas

Start at: 2018-05-26 03:05:13  
End at: 2018-05-26 03:05:43  
Local clock offset: -0.301 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-05-26 08:39:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 282.15 Mbit/s  
95th percentile per-packet one-way delay: 58.283 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 89.18 Mbit/s  
95th percentile per-packet one-way delay: 54.411 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 229.71 Mbit/s  
95th percentile per-packet one-way delay: 60.109 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 120.39 Mbit/s  
95th percentile per-packet one-way delay: 53.778 ms  
Loss rate: 0.04%

Run 2: Report of TCP Vegas — Data Link

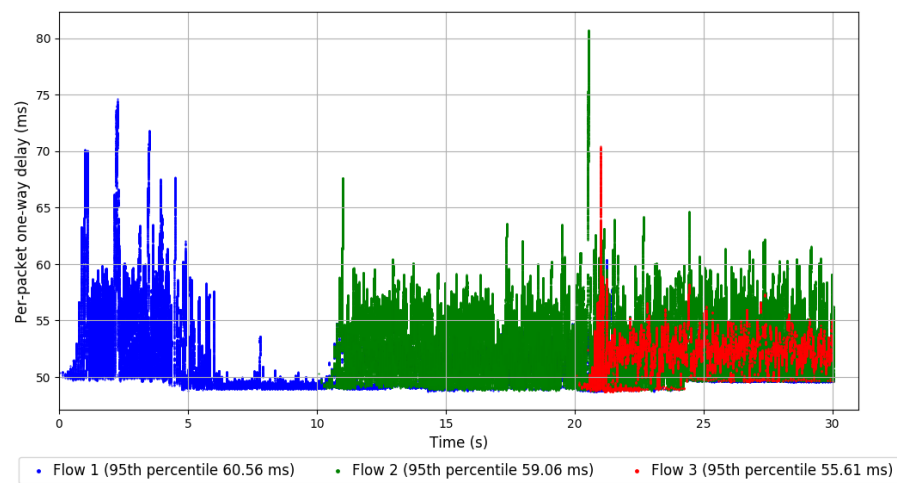
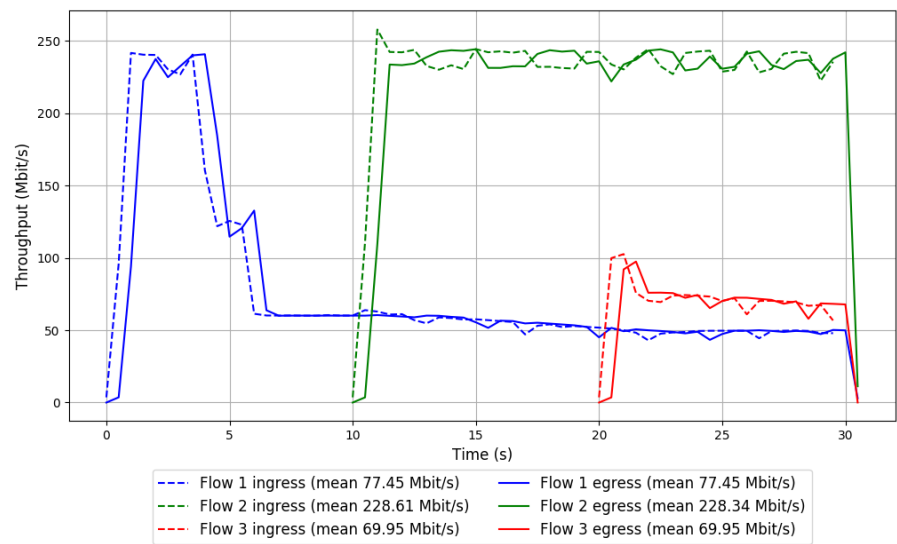


Run 3: Statistics of TCP Vegas

Start at: 2018-05-26 03:28:07  
End at: 2018-05-26 03:28:37  
Local clock offset: -0.248 ms  
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2018-05-26 08:39:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 252.78 Mbit/s  
95th percentile per-packet one-way delay: 59.231 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 77.45 Mbit/s  
95th percentile per-packet one-way delay: 60.559 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 228.34 Mbit/s  
95th percentile per-packet one-way delay: 59.063 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 69.95 Mbit/s  
95th percentile per-packet one-way delay: 55.609 ms  
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

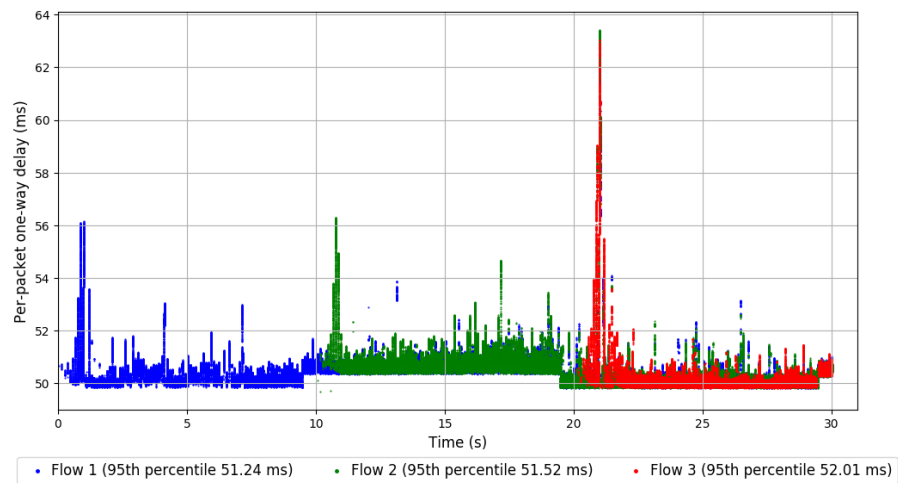
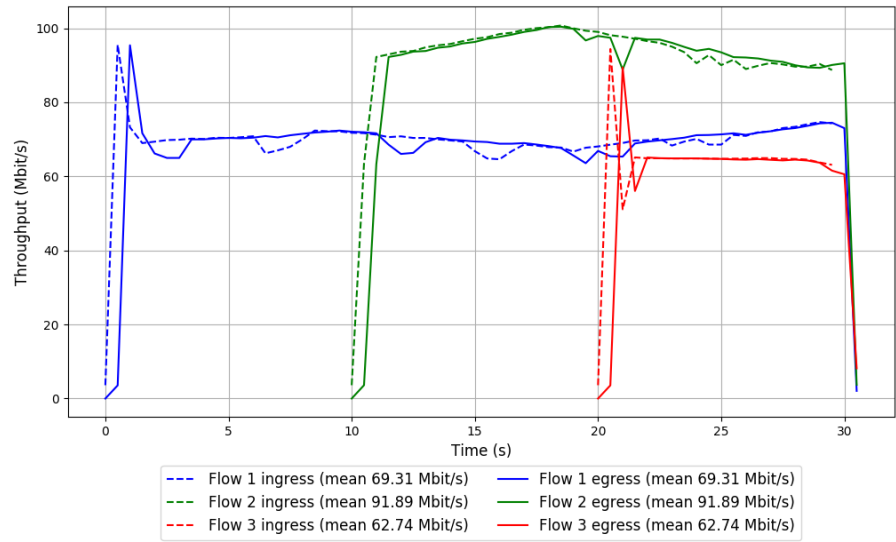


Run 4: Statistics of TCP Vegas

Start at: 2018-05-26 03:51:12  
End at: 2018-05-26 03:51:42  
Local clock offset: 0.173 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-05-26 08:39:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 151.30 Mbit/s  
95th percentile per-packet one-way delay: 51.444 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.31 Mbit/s  
95th percentile per-packet one-way delay: 51.240 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 91.89 Mbit/s  
95th percentile per-packet one-way delay: 51.524 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 62.74 Mbit/s  
95th percentile per-packet one-way delay: 52.006 ms  
Loss rate: 0.00%

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



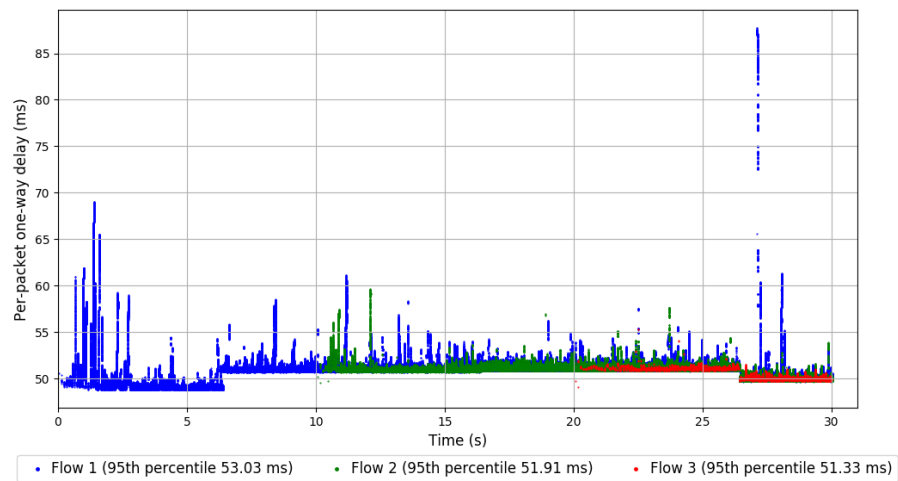
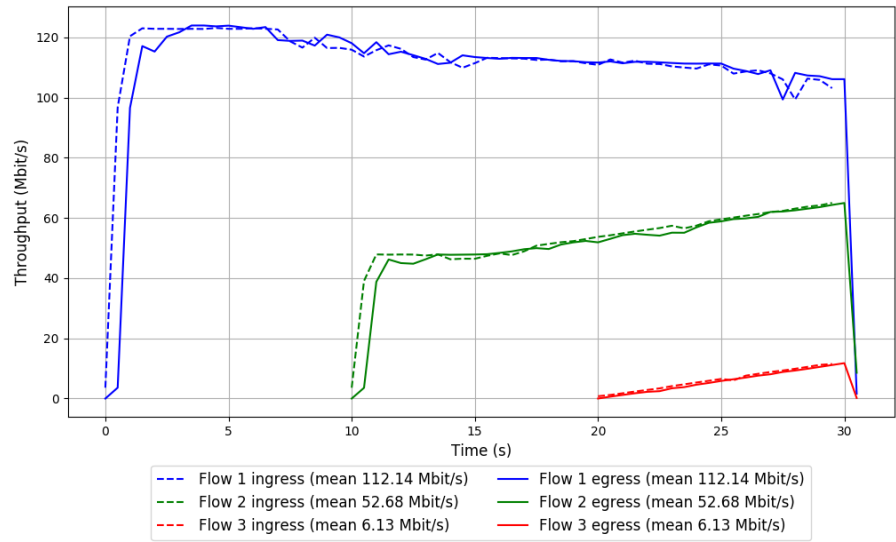
Run 5: Statistics of TCP Vegas

Start at: 2018-05-26 04:14:05  
End at: 2018-05-26 04:14:35  
Local clock offset: -0.235 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-05-26 08:39:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 149.25 Mbit/s  
95th percentile per-packet one-way delay: 52.583 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 112.14 Mbit/s  
95th percentile per-packet one-way delay: 53.033 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 52.68 Mbit/s  
95th percentile per-packet one-way delay: 51.913 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.13 Mbit/s  
95th percentile per-packet one-way delay: 51.334 ms  
Loss rate: 0.12%



# Run 5: Report of TCP Vegas — Data Link

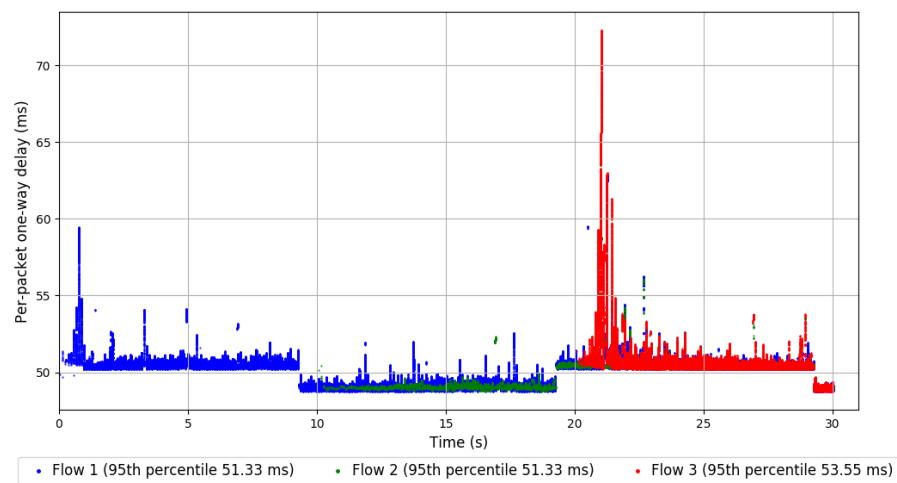
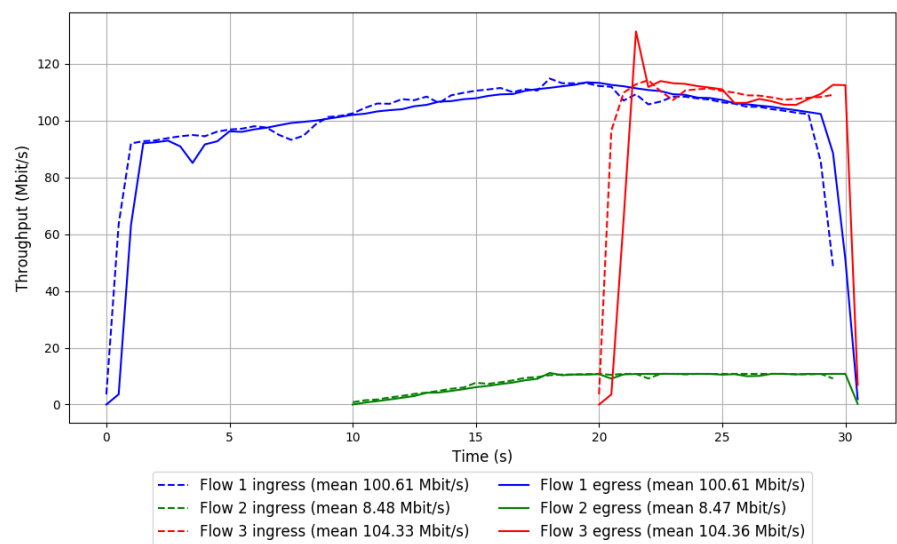


Run 6: Statistics of TCP Vegas

Start at: 2018-05-26 04:37:02  
End at: 2018-05-26 04:37:32  
Local clock offset: -0.229 ms  
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2018-05-26 08:39:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 140.85 Mbit/s  
95th percentile per-packet one-way delay: 51.623 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 100.61 Mbit/s  
95th percentile per-packet one-way delay: 51.327 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.47 Mbit/s  
95th percentile per-packet one-way delay: 51.328 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 104.36 Mbit/s  
95th percentile per-packet one-way delay: 53.549 ms  
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-26 05:00:09

End at: 2018-05-26 05:00:39

Local clock offset: -0.194 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-05-26 08:39:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 350.46 Mbit/s

95th percentile per-packet one-way delay: 60.570 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 229.89 Mbit/s

95th percentile per-packet one-way delay: 61.318 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 161.87 Mbit/s

95th percentile per-packet one-way delay: 57.173 ms

Loss rate: 0.02%

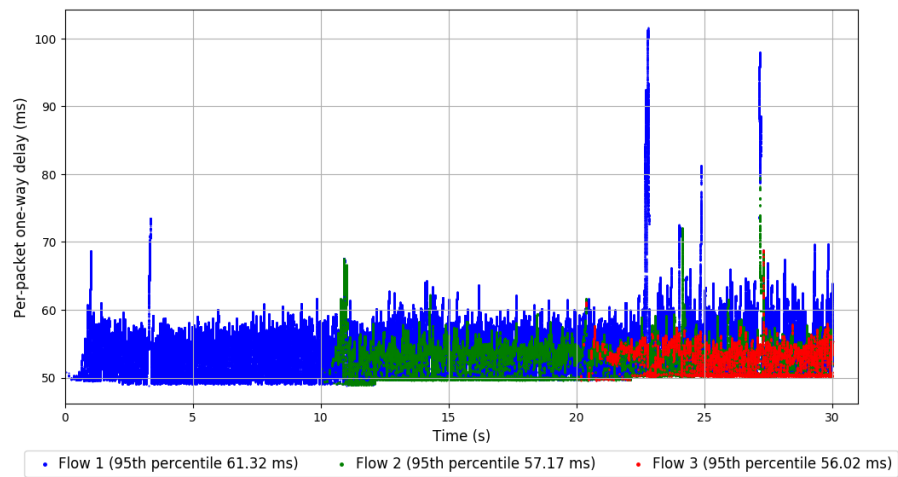
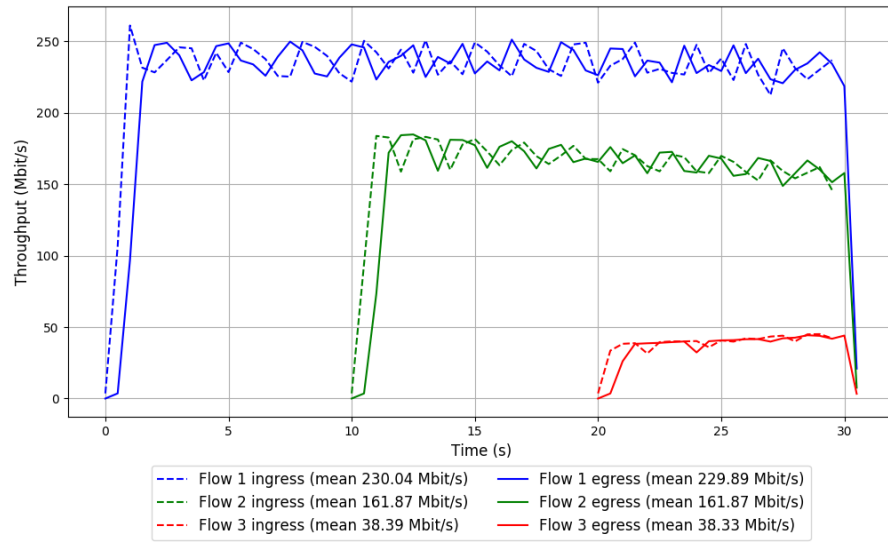
-- Flow 3:

Average throughput: 38.33 Mbit/s

95th percentile per-packet one-way delay: 56.020 ms

Loss rate: 0.14%

# Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-26 05:23:11

End at: 2018-05-26 05:23:41

Local clock offset: 0.169 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-05-26 08:39:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 108.95 Mbit/s

95th percentile per-packet one-way delay: 51.001 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 25.16 Mbit/s

95th percentile per-packet one-way delay: 51.066 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.35 Mbit/s

95th percentile per-packet one-way delay: 51.033 ms

Loss rate: 0.00%

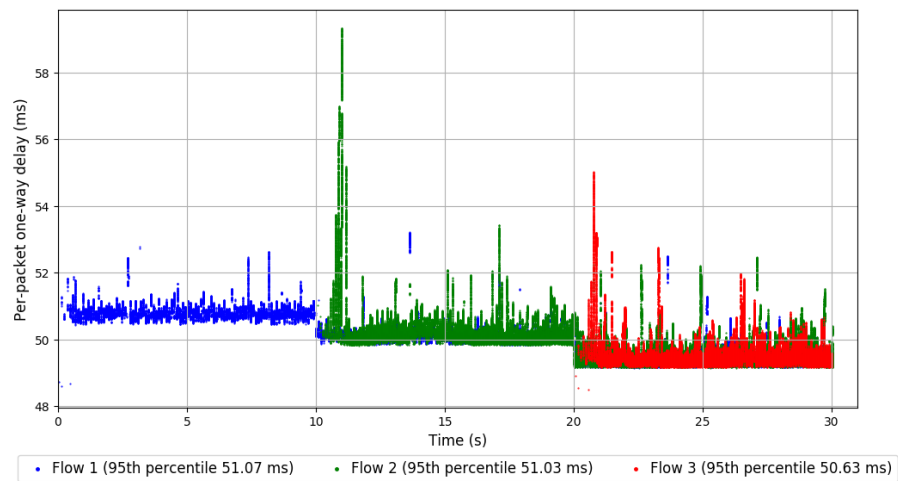
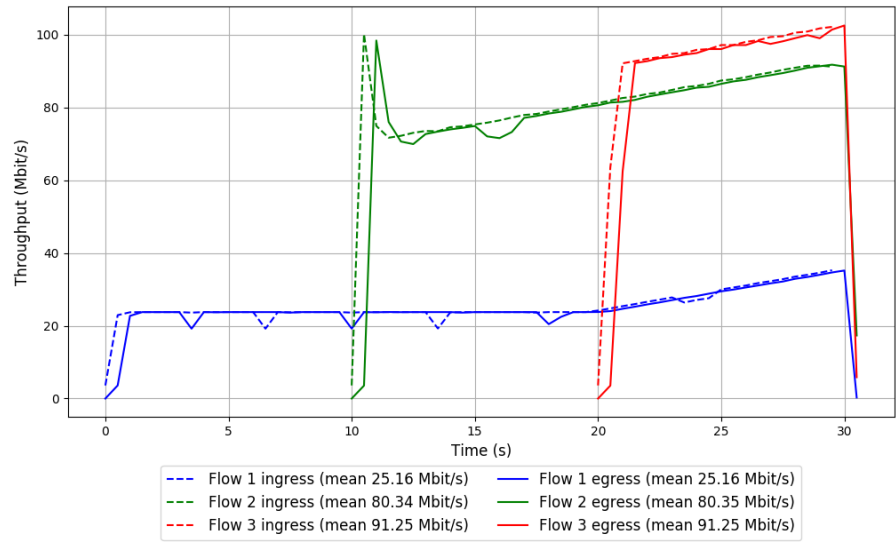
-- Flow 3:

Average throughput: 91.25 Mbit/s

95th percentile per-packet one-way delay: 50.634 ms

Loss rate: 0.00%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-26 05:46:16

End at: 2018-05-26 05:46:46

Local clock offset: 0.155 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-26 08:39:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 279.74 Mbit/s

95th percentile per-packet one-way delay: 58.124 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 184.20 Mbit/s

95th percentile per-packet one-way delay: 58.477 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 107.62 Mbit/s

95th percentile per-packet one-way delay: 54.722 ms

Loss rate: 0.00%

-- Flow 3:

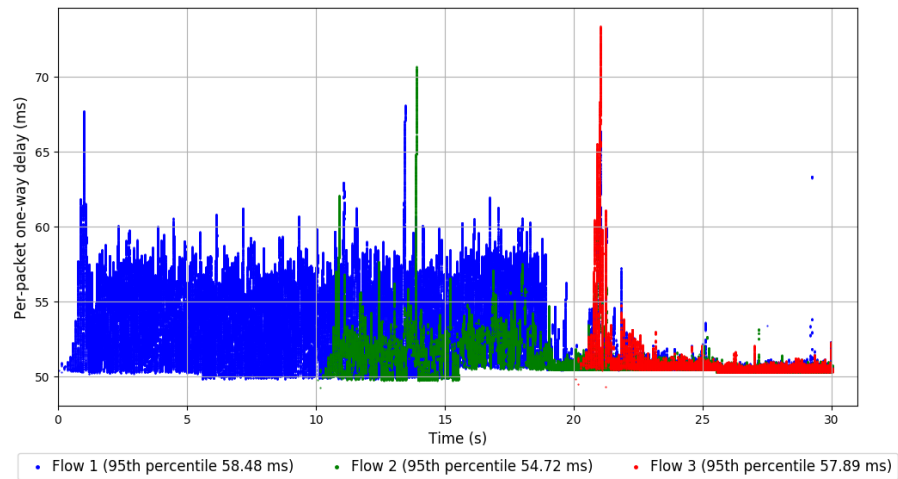
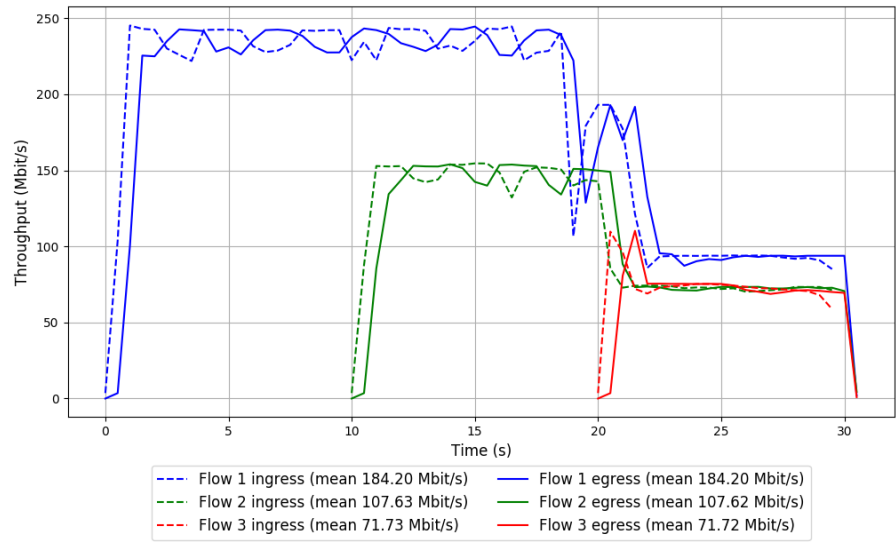
Average throughput: 71.72 Mbit/s

95th percentile per-packet one-way delay: 57.890 ms

Loss rate: 0.01%



# Run 9: Report of TCP Vegas — Data Link

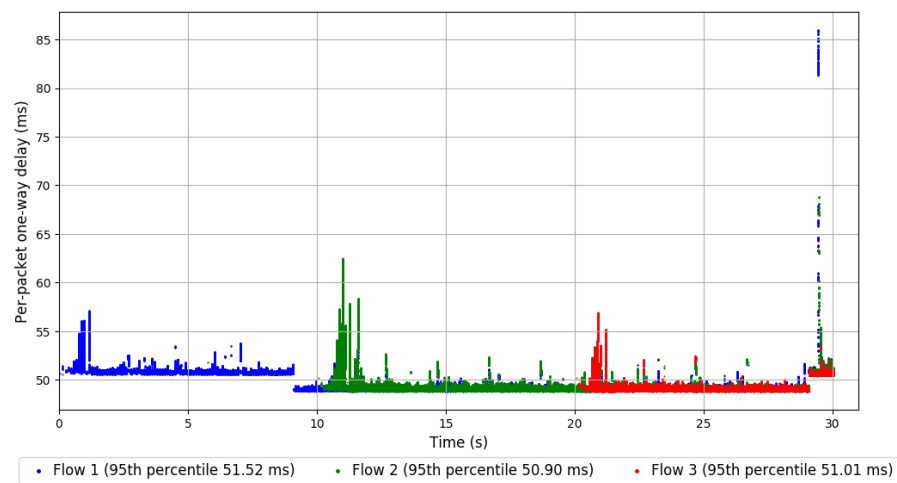
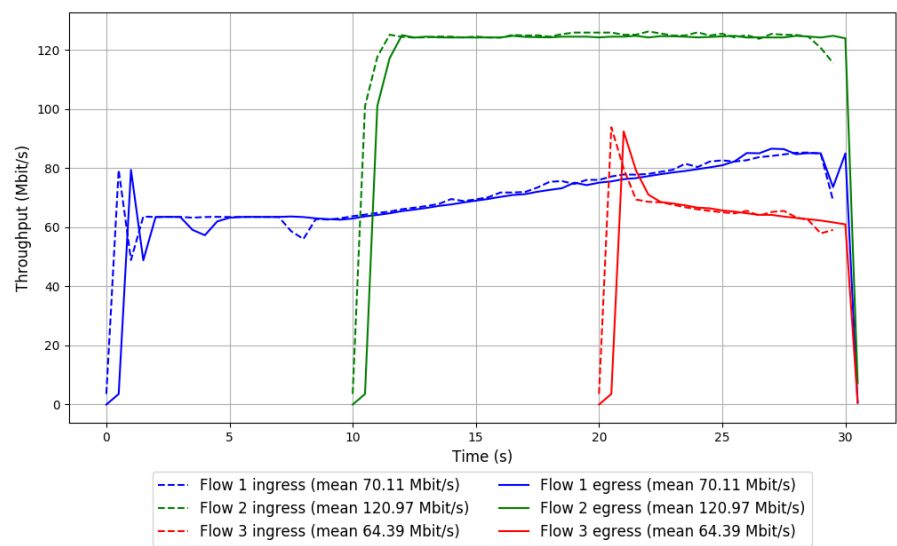


Run 10: Statistics of TCP Vegas

Start at: 2018-05-26 06:09:22  
End at: 2018-05-26 06:09:52  
Local clock offset: -0.155 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-05-26 08:39:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 172.07 Mbit/s  
95th percentile per-packet one-way delay: 51.243 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 70.11 Mbit/s  
95th percentile per-packet one-way delay: 51.523 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 120.97 Mbit/s  
95th percentile per-packet one-way delay: 50.903 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 64.39 Mbit/s  
95th percentile per-packet one-way delay: 51.005 ms  
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

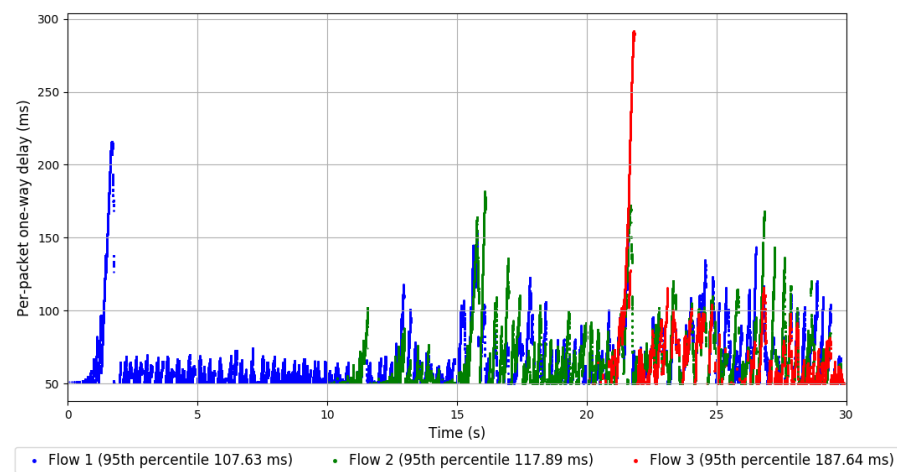
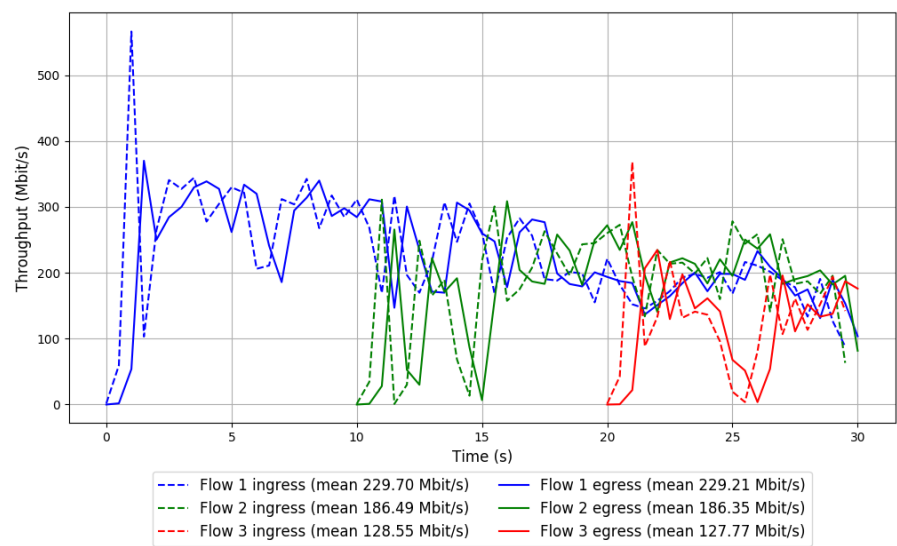


Run 1: Statistics of Verus

Start at: 2018-05-26 02:45:04  
End at: 2018-05-26 02:45:34  
Local clock offset: -0.271 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-05-26 08:42:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 393.81 Mbit/s  
95th percentile per-packet one-way delay: 115.410 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 229.21 Mbit/s  
95th percentile per-packet one-way delay: 107.627 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 186.35 Mbit/s  
95th percentile per-packet one-way delay: 117.886 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 127.77 Mbit/s  
95th percentile per-packet one-way delay: 187.636 ms  
Loss rate: 0.67%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-26 03:07:56

End at: 2018-05-26 03:08:26

Local clock offset: -0.215 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-05-26 08:42:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 361.30 Mbit/s

95th percentile per-packet one-way delay: 100.851 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 209.71 Mbit/s

95th percentile per-packet one-way delay: 99.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.06 Mbit/s

95th percentile per-packet one-way delay: 111.286 ms

Loss rate: 0.00%

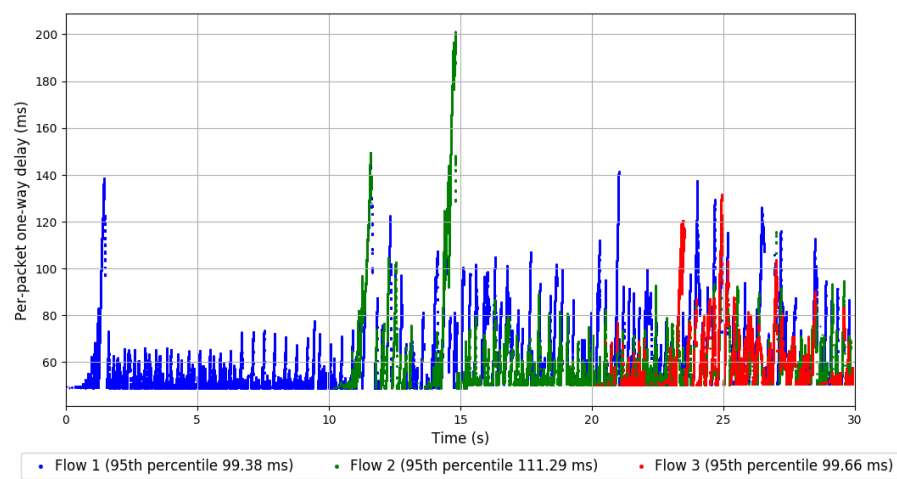
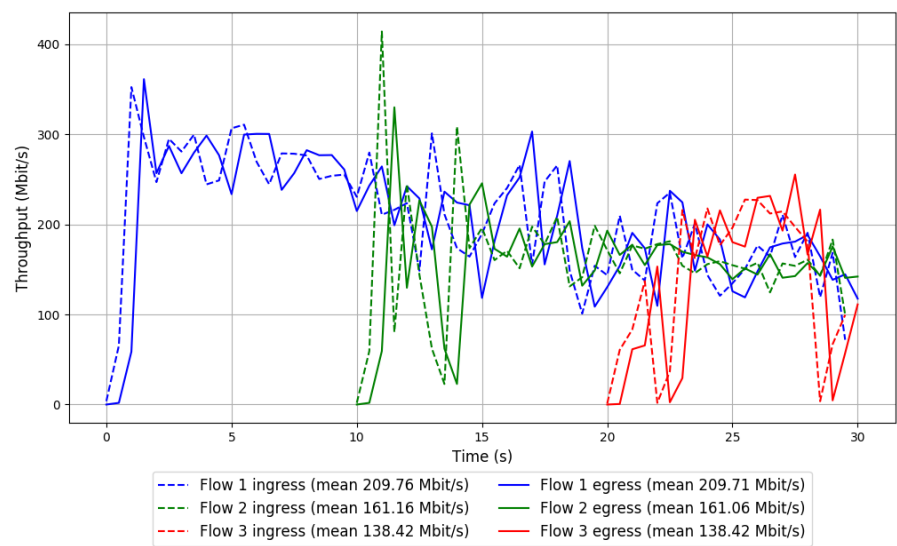
-- Flow 3:

Average throughput: 138.42 Mbit/s

95th percentile per-packet one-way delay: 99.661 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



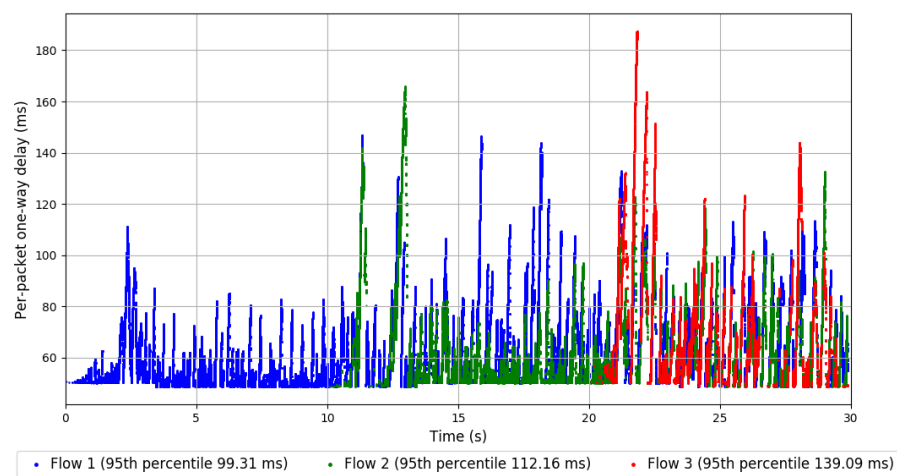
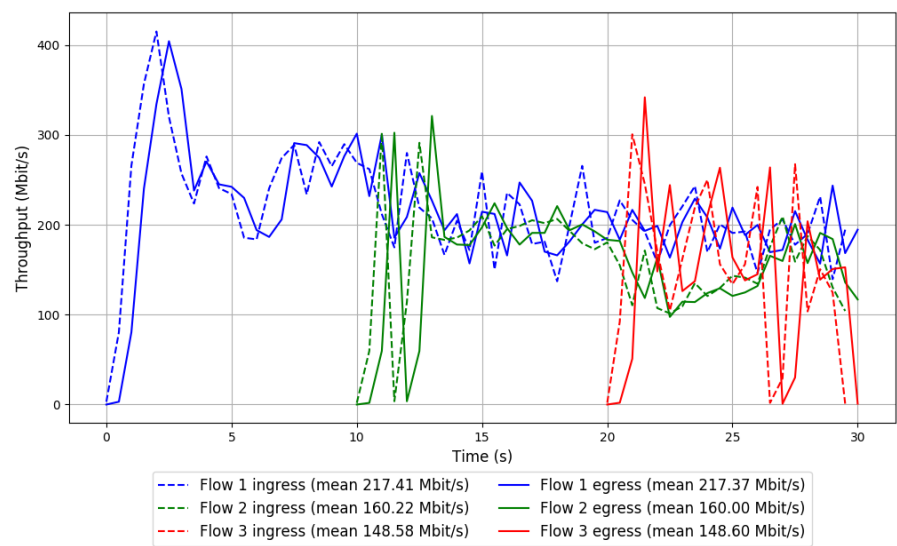
Run 3: Statistics of Verus

Start at: 2018-05-26 03:30:48  
End at: 2018-05-26 03:31:18  
Local clock offset: -0.188 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-05-26 08:42:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 372.39 Mbit/s  
95th percentile per-packet one-way delay: 108.801 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 217.37 Mbit/s  
95th percentile per-packet one-way delay: 99.306 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 160.00 Mbit/s  
95th percentile per-packet one-way delay: 112.158 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 148.60 Mbit/s  
95th percentile per-packet one-way delay: 139.091 ms  
Loss rate: 0.00%



Run 3: Report of Verus — Data Link

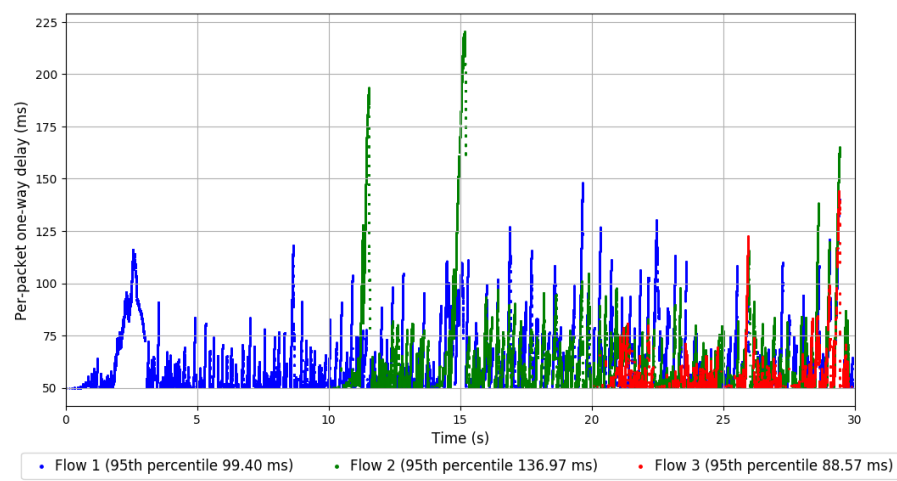
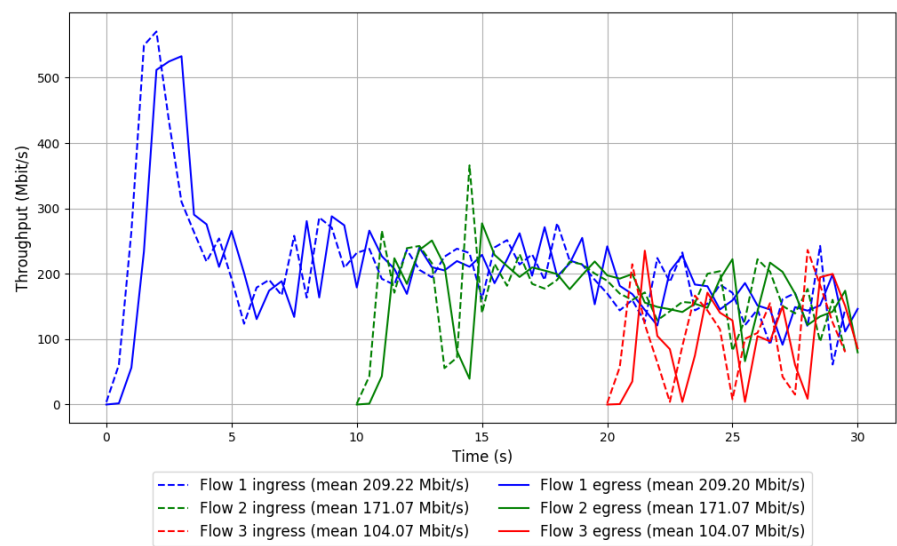


Run 4: Statistics of Verus

Start at: 2018-05-26 03:53:51  
End at: 2018-05-26 03:54:21  
Local clock offset: -0.214 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-05-26 08:43:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 356.20 Mbit/s  
95th percentile per-packet one-way delay: 103.512 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 209.20 Mbit/s  
95th percentile per-packet one-way delay: 99.397 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 171.07 Mbit/s  
95th percentile per-packet one-way delay: 136.974 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 104.07 Mbit/s  
95th percentile per-packet one-way delay: 88.574 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

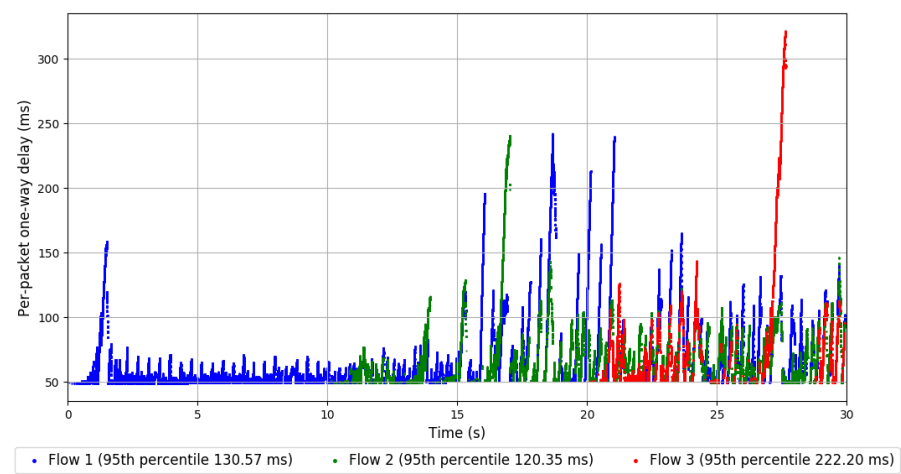
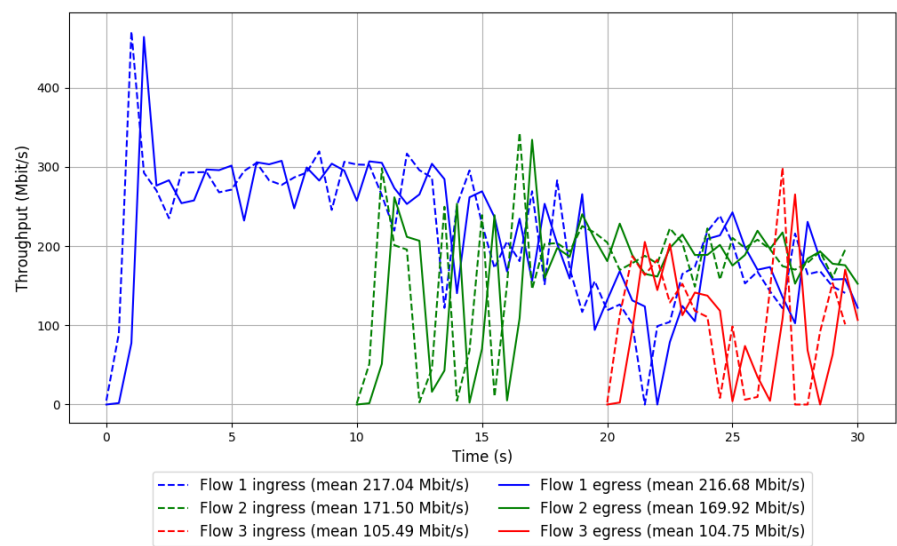


Run 5: Statistics of Verus

Start at: 2018-05-26 04:16:46  
End at: 2018-05-26 04:17:16  
Local clock offset: 0.13 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-05-26 08:44:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 364.12 Mbit/s  
95th percentile per-packet one-way delay: 132.801 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 216.68 Mbit/s  
95th percentile per-packet one-way delay: 130.566 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 169.92 Mbit/s  
95th percentile per-packet one-way delay: 120.347 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 104.75 Mbit/s  
95th percentile per-packet one-way delay: 222.198 ms  
Loss rate: 0.70%

Run 5: Report of Verus — Data Link

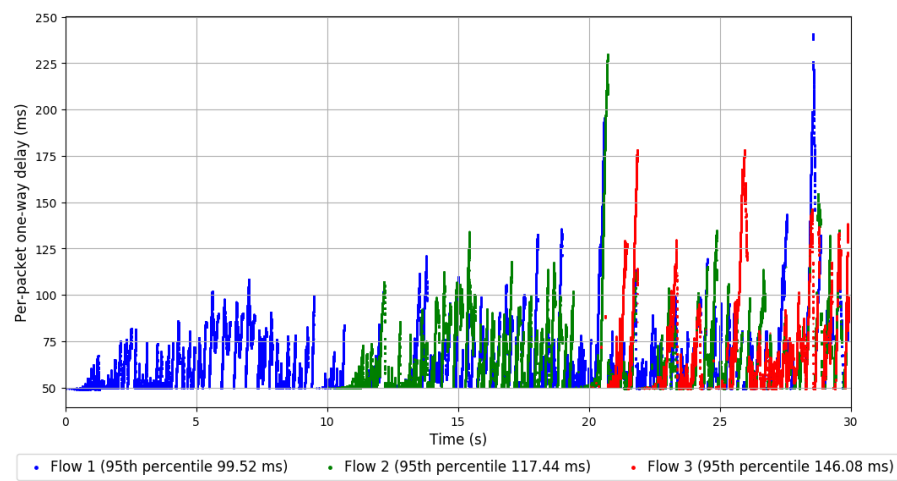
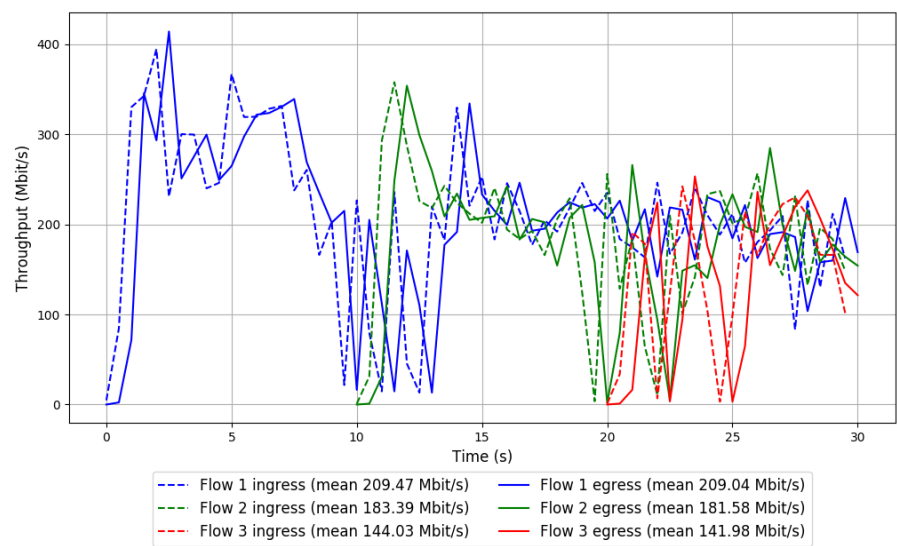


Run 6: Statistics of Verus

Start at: 2018-05-26 04:39:40  
End at: 2018-05-26 04:40:10  
Local clock offset: -0.245 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-05-26 08:45:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 376.66 Mbit/s  
95th percentile per-packet one-way delay: 115.490 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 209.04 Mbit/s  
95th percentile per-packet one-way delay: 99.523 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 181.58 Mbit/s  
95th percentile per-packet one-way delay: 117.445 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 141.98 Mbit/s  
95th percentile per-packet one-way delay: 146.082 ms  
Loss rate: 1.41%

Run 6: Report of Verus — Data Link



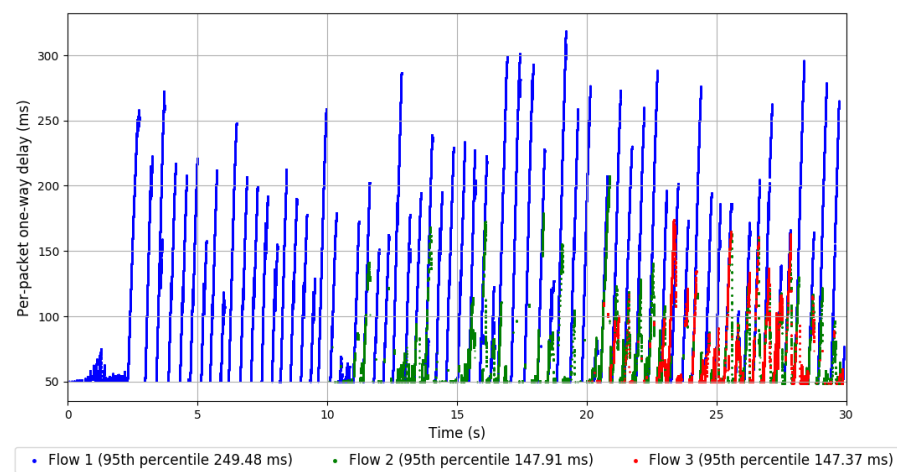
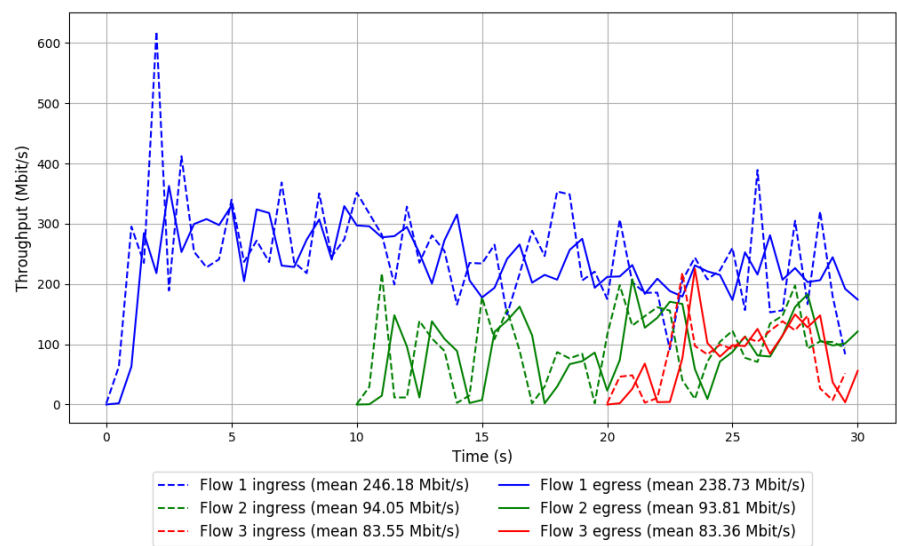
Run 7: Statistics of Verus

Start at: 2018-05-26 05:02:54  
End at: 2018-05-26 05:03:24  
Local clock offset: 0.199 ms  
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-05-26 08:45:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 328.19 Mbit/s  
95th percentile per-packet one-way delay: 240.584 ms  
Loss rate: 2.24%  
-- Flow 1:  
Average throughput: 238.73 Mbit/s  
95th percentile per-packet one-way delay: 249.483 ms  
Loss rate: 2.98%  
-- Flow 2:  
Average throughput: 93.81 Mbit/s  
95th percentile per-packet one-way delay: 147.907 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 83.36 Mbit/s  
95th percentile per-packet one-way delay: 147.372 ms  
Loss rate: 0.13%



Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-26 05:25:48

End at: 2018-05-26 05:26:18

Local clock offset: -0.584 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-05-26 08:46:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 398.98 Mbit/s

95th percentile per-packet one-way delay: 134.607 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 232.02 Mbit/s

95th percentile per-packet one-way delay: 145.656 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 190.48 Mbit/s

95th percentile per-packet one-way delay: 126.339 ms

Loss rate: 0.10%

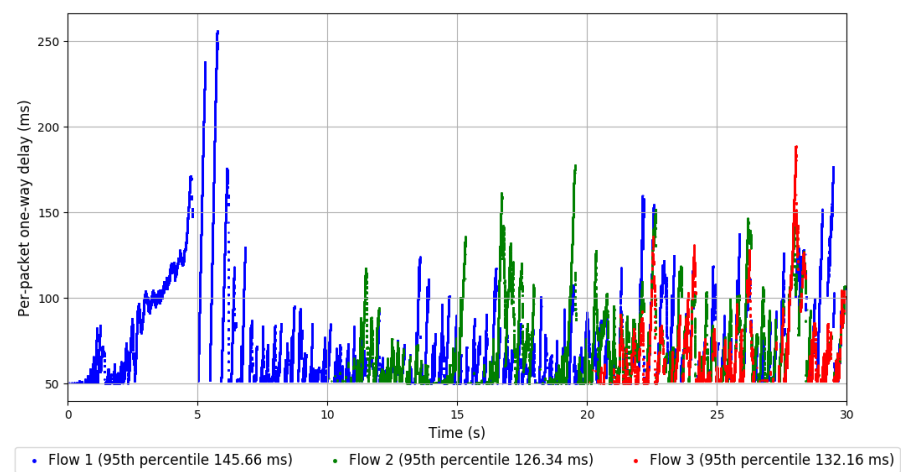
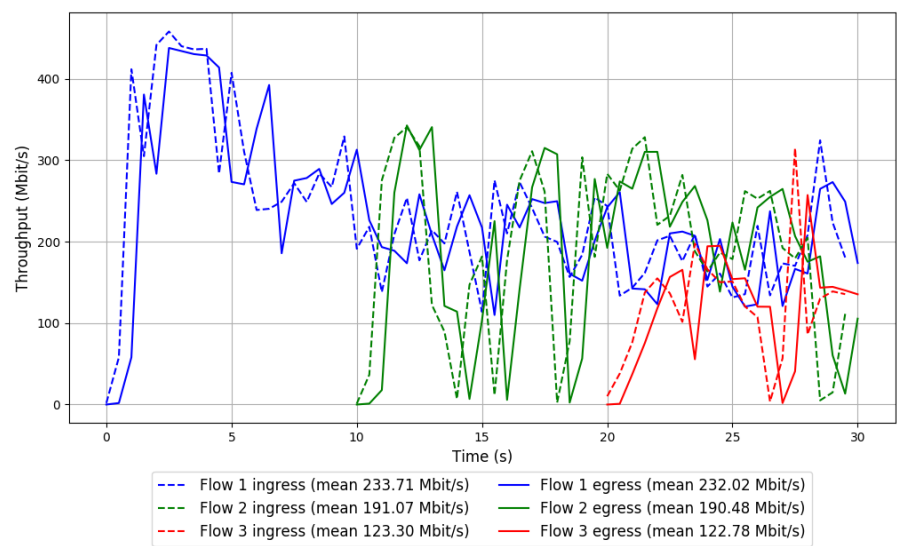
-- Flow 3:

Average throughput: 122.78 Mbit/s

95th percentile per-packet one-way delay: 132.163 ms

Loss rate: 0.10%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-26 05:49:00

End at: 2018-05-26 05:49:30

Local clock offset: 0.188 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-05-26 08:47:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 336.88 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 216.26 Mbit/s

95th percentile per-packet one-way delay: 139.639 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 135.11 Mbit/s

95th percentile per-packet one-way delay: 163.543 ms

Loss rate: 0.00%

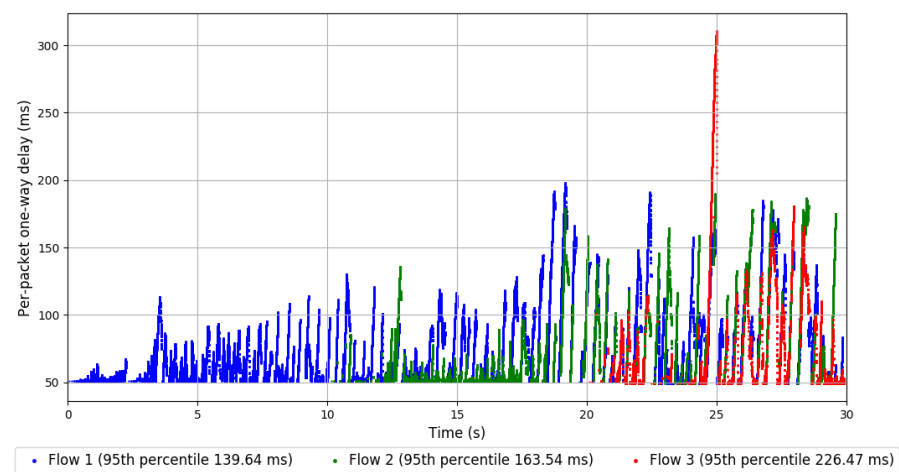
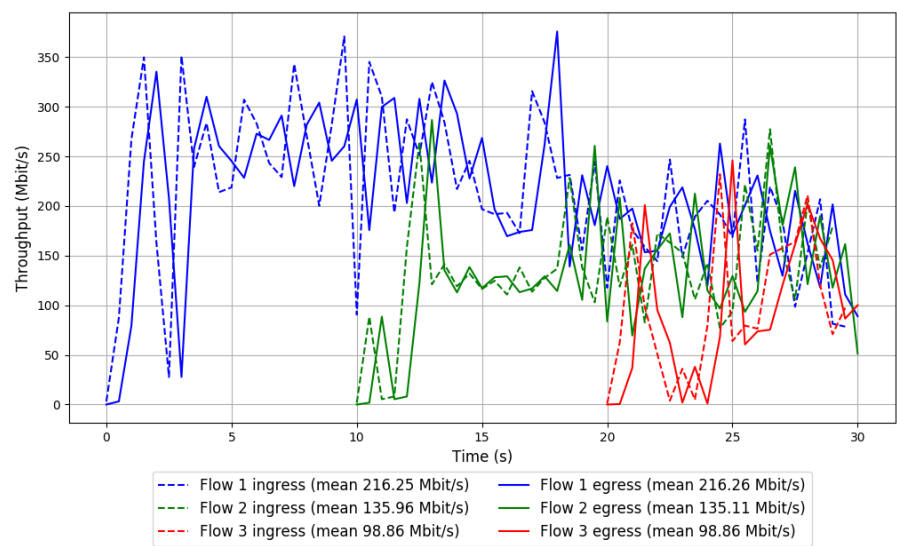
-- Flow 3:

Average throughput: 98.86 Mbit/s

95th percentile per-packet one-way delay: 226.467 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link

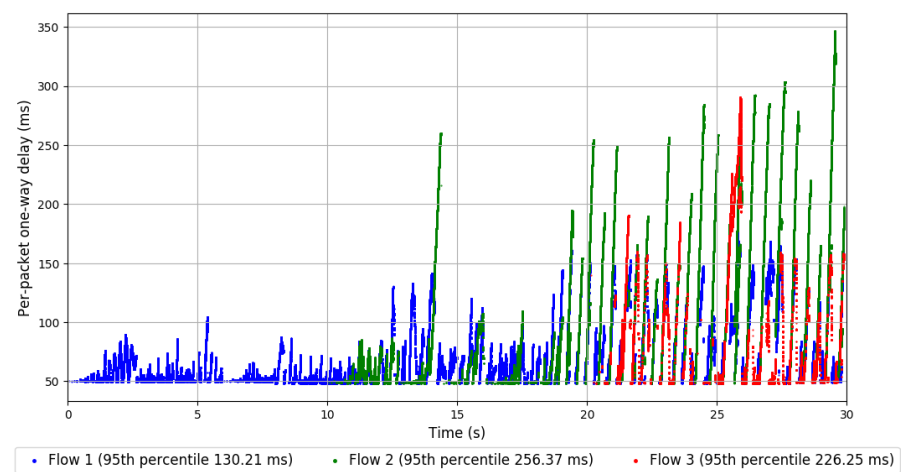
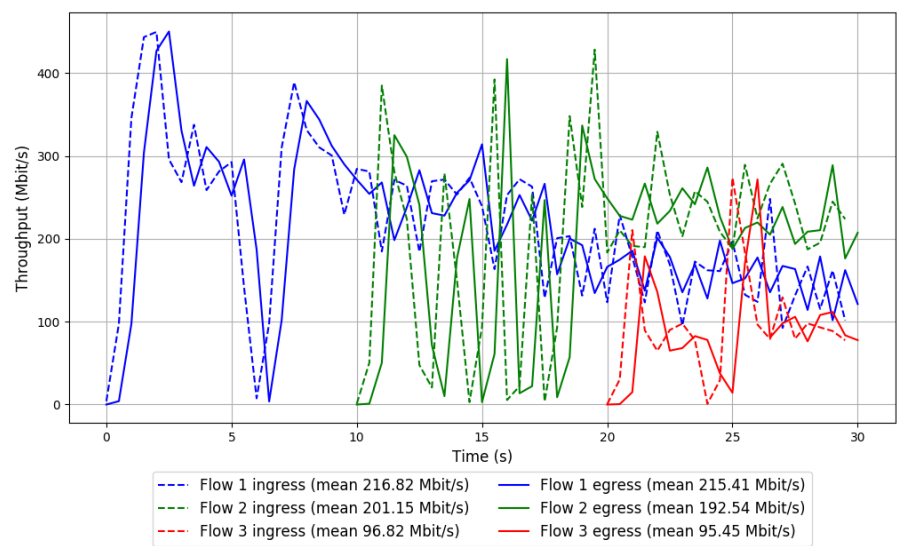


Run 10: Statistics of Verus

Start at: 2018-05-26 06:12:03  
End at: 2018-05-26 06:12:33  
Local clock offset: 0.265 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-05-26 08:48:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 374.46 Mbit/s  
95th percentile per-packet one-way delay: 216.466 ms  
Loss rate: 1.63%  
-- Flow 1:  
Average throughput: 215.41 Mbit/s  
95th percentile per-packet one-way delay: 130.214 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 192.54 Mbit/s  
95th percentile per-packet one-way delay: 256.373 ms  
Loss rate: 3.79%  
-- Flow 3:  
Average throughput: 95.45 Mbit/s  
95th percentile per-packet one-way delay: 226.254 ms  
Loss rate: 1.61%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-26 02:48:06

End at: 2018-05-26 02:48:36

Local clock offset: -0.273 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-05-26 08:49:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 449.82 Mbit/s

95th percentile per-packet one-way delay: 106.169 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 319.42 Mbit/s

95th percentile per-packet one-way delay: 131.150 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 173.49 Mbit/s

95th percentile per-packet one-way delay: 51.370 ms

Loss rate: 0.01%

-- Flow 3:

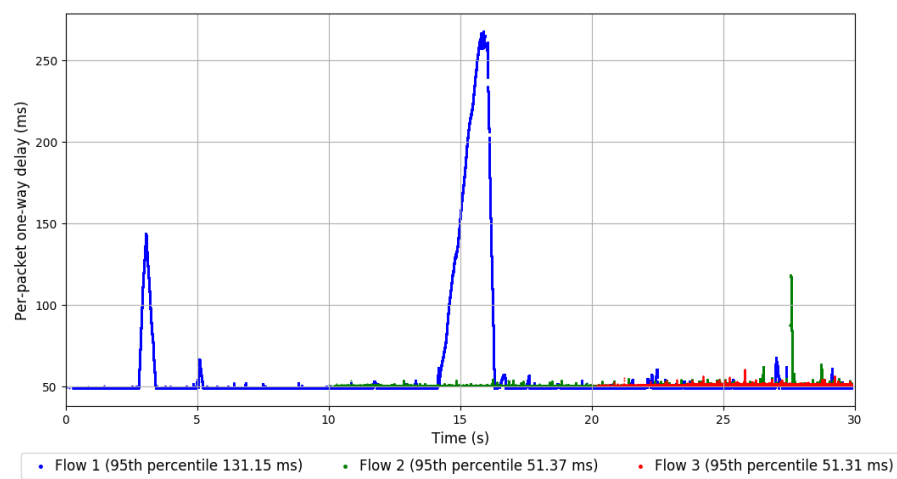
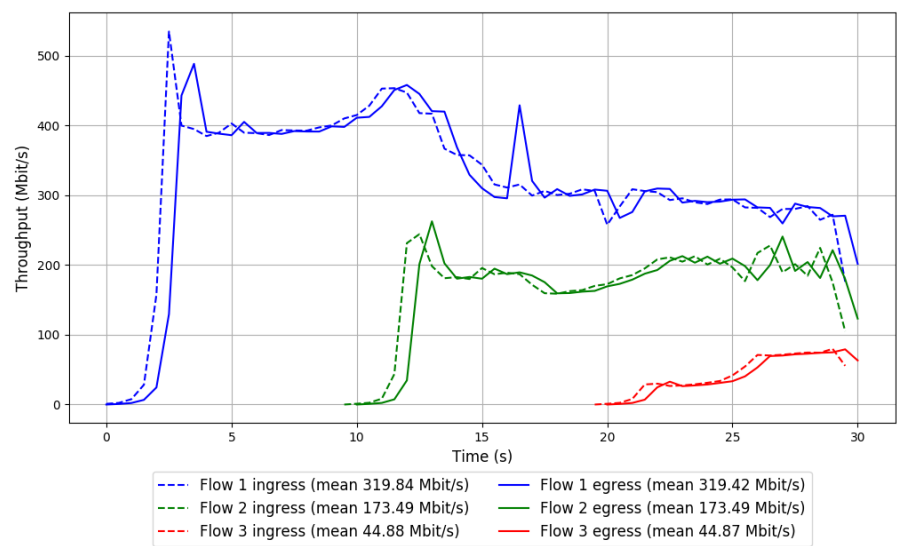
Average throughput: 44.87 Mbit/s

95th percentile per-packet one-way delay: 51.311 ms

Loss rate: 0.03%



Run 1: Report of PCC-Vivace — Data Link

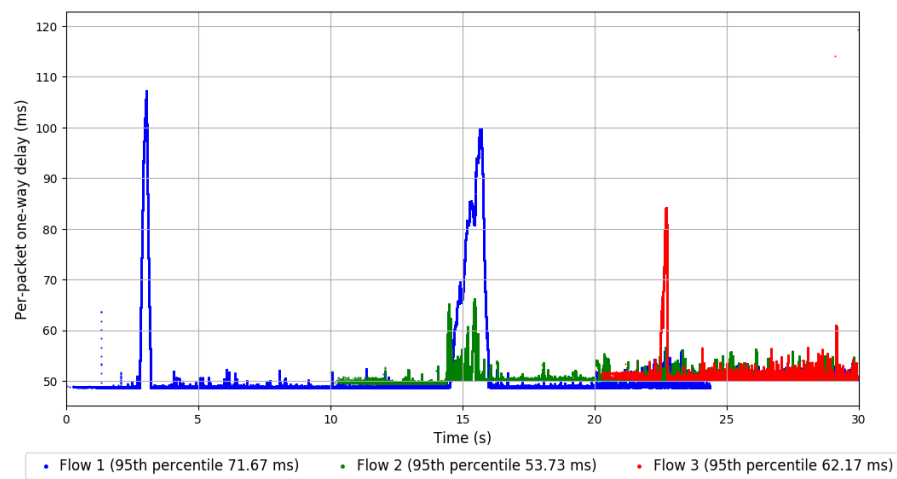
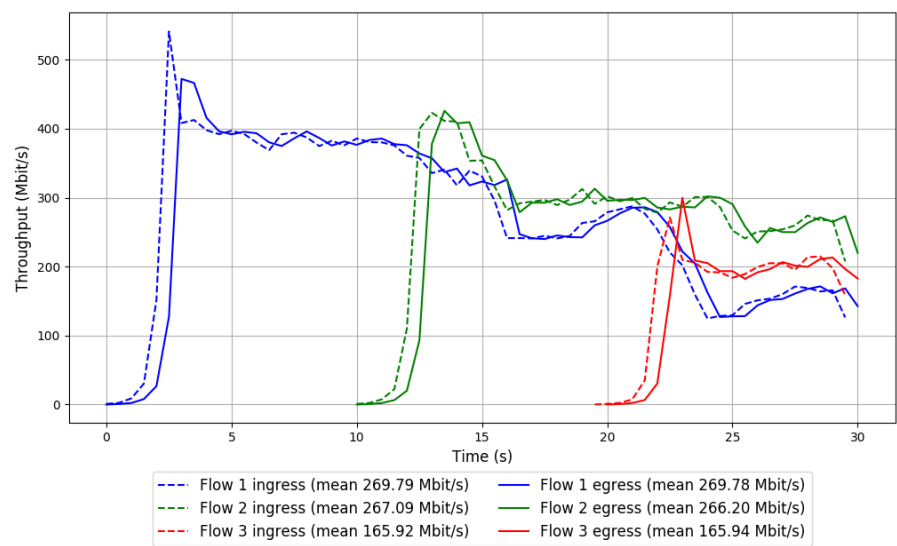


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-26 03:10:57  
End at: 2018-05-26 03:11:27  
Local clock offset: -0.246 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-05-26 08:51:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 501.31 Mbit/s  
95th percentile per-packet one-way delay: 59.506 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 269.78 Mbit/s  
95th percentile per-packet one-way delay: 71.674 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 266.20 Mbit/s  
95th percentile per-packet one-way delay: 53.732 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 165.94 Mbit/s  
95th percentile per-packet one-way delay: 62.166 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

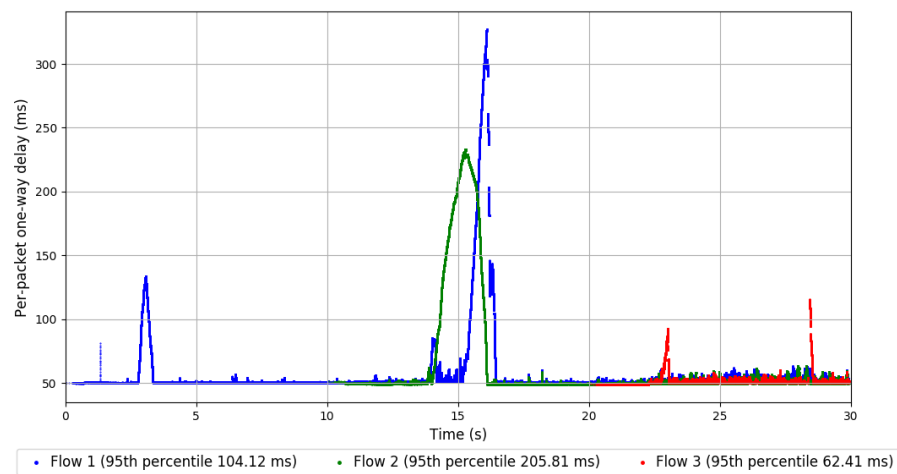
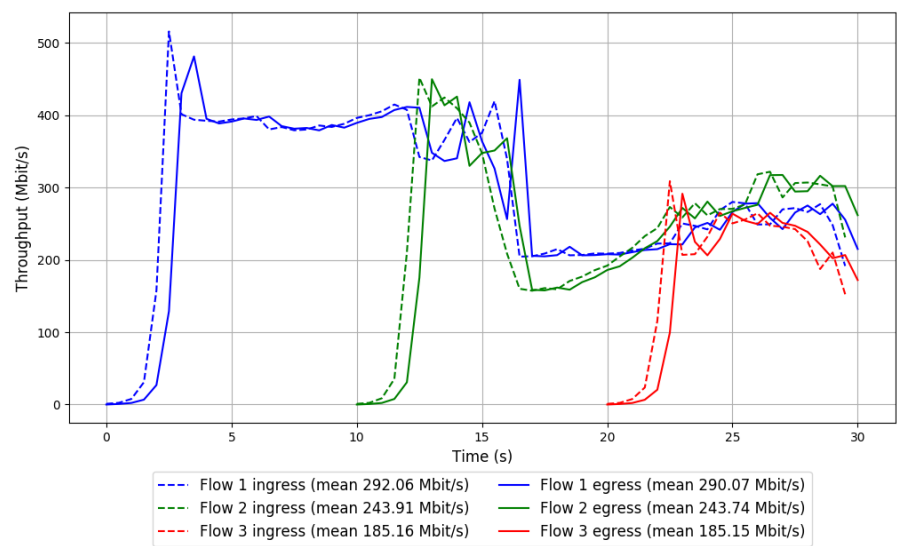


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-26 03:33:50  
End at: 2018-05-26 03:34:20  
Local clock offset: -0.225 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-05-26 08:53:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 513.25 Mbit/s  
95th percentile per-packet one-way delay: 132.406 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 290.07 Mbit/s  
95th percentile per-packet one-way delay: 104.121 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 243.74 Mbit/s  
95th percentile per-packet one-way delay: 205.811 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 185.15 Mbit/s  
95th percentile per-packet one-way delay: 62.408 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

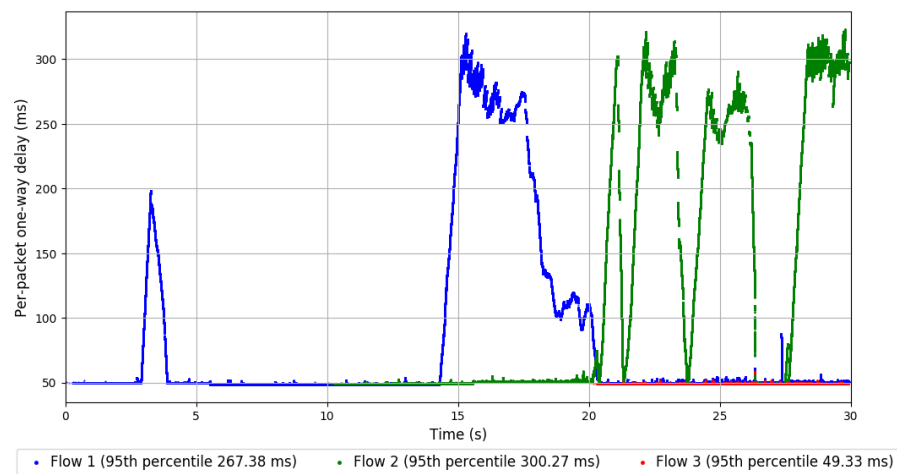
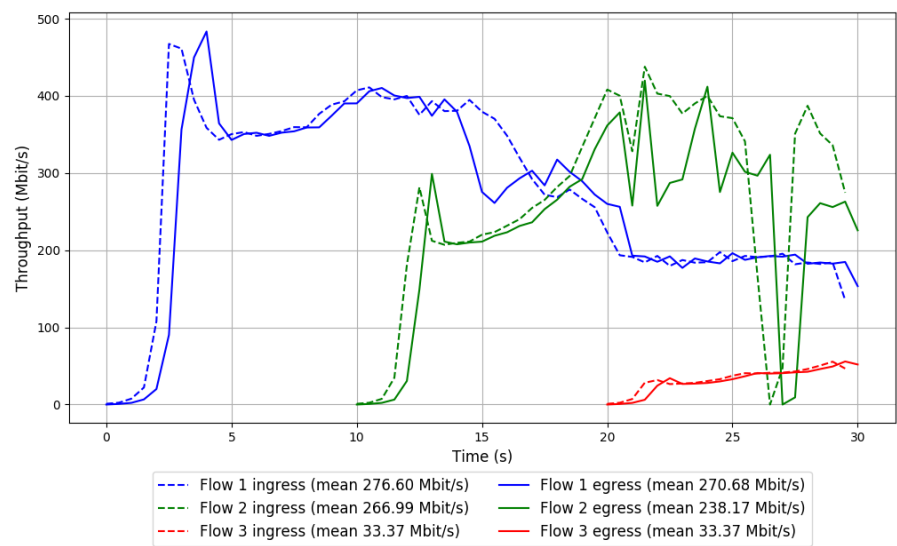


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-26 03:56:54  
End at: 2018-05-26 03:57:24  
Local clock offset: 0.193 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-05-26 08:53:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 440.07 Mbit/s  
95th percentile per-packet one-way delay: 289.242 ms  
Loss rate: 5.39%  
-- Flow 1:  
Average throughput: 270.68 Mbit/s  
95th percentile per-packet one-way delay: 267.380 ms  
Loss rate: 2.14%  
-- Flow 2:  
Average throughput: 238.17 Mbit/s  
95th percentile per-packet one-way delay: 300.271 ms  
Loss rate: 10.79%  
-- Flow 3:  
Average throughput: 33.37 Mbit/s  
95th percentile per-packet one-way delay: 49.325 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



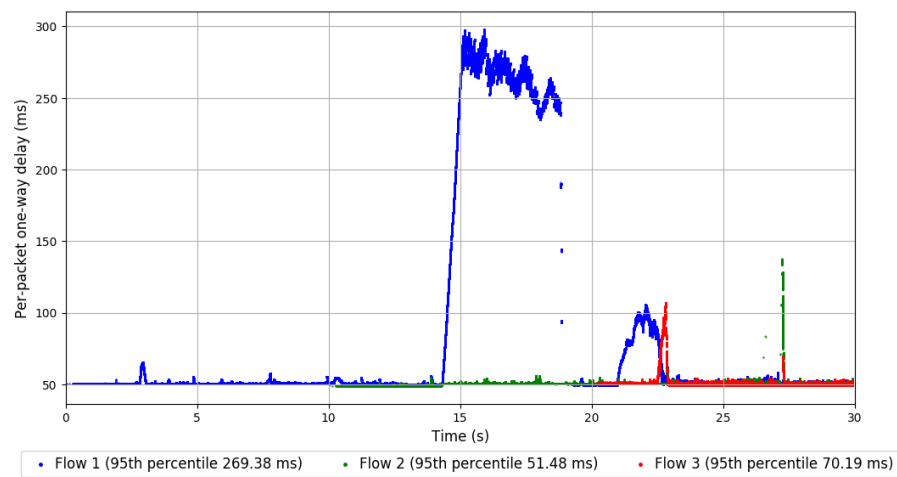
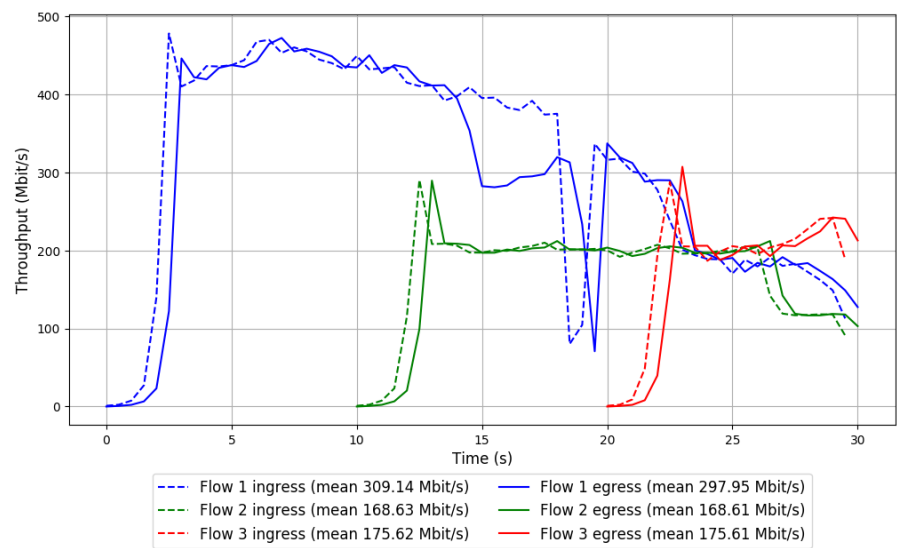
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-26 04:19:47  
End at: 2018-05-26 04:20:17  
Local clock offset: -0.286 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-05-26 08:53:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 468.11 Mbit/s  
95th percentile per-packet one-way delay: 260.574 ms  
Loss rate: 2.33%  
-- Flow 1:  
Average throughput: 297.95 Mbit/s  
95th percentile per-packet one-way delay: 269.375 ms  
Loss rate: 3.62%  
-- Flow 2:  
Average throughput: 168.61 Mbit/s  
95th percentile per-packet one-way delay: 51.482 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 175.61 Mbit/s  
95th percentile per-packet one-way delay: 70.192 ms  
Loss rate: 0.00%



Run 5: Report of PCC-Vivace — Data Link

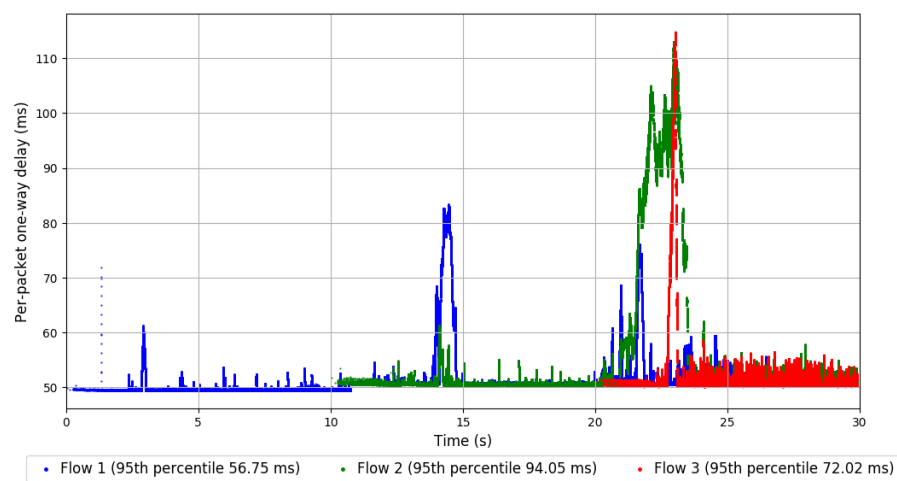
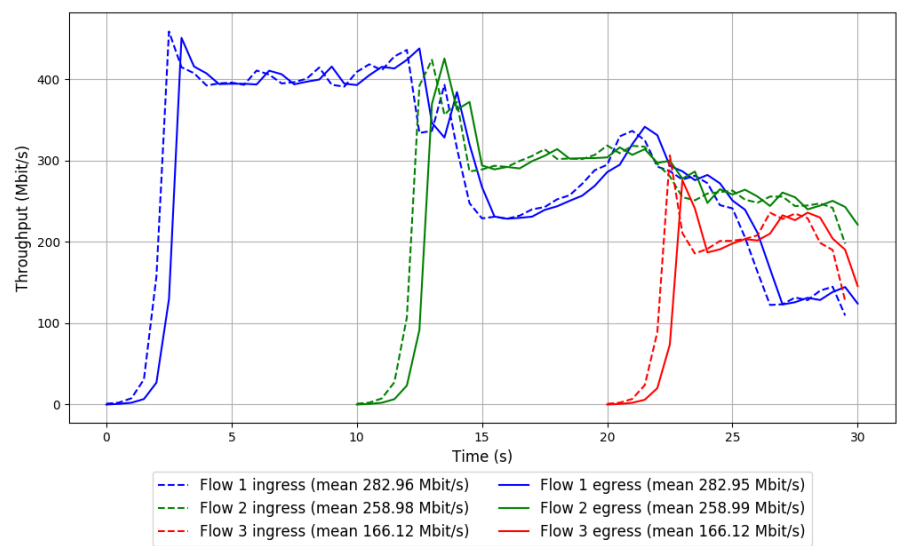


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-26 04:42:40  
End at: 2018-05-26 04:43:10  
Local clock offset: -0.135 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-05-26 08:55:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 510.01 Mbit/s  
95th percentile per-packet one-way delay: 72.648 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 282.95 Mbit/s  
95th percentile per-packet one-way delay: 56.746 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 258.99 Mbit/s  
95th percentile per-packet one-way delay: 94.053 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 166.12 Mbit/s  
95th percentile per-packet one-way delay: 72.023 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-26 05:05:54

End at: 2018-05-26 05:06:25

Local clock offset: -0.21 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-05-26 08:55:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 463.92 Mbit/s

95th percentile per-packet one-way delay: 67.204 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 245.37 Mbit/s

95th percentile per-packet one-way delay: 71.877 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 249.95 Mbit/s

95th percentile per-packet one-way delay: 54.513 ms

Loss rate: 0.00%

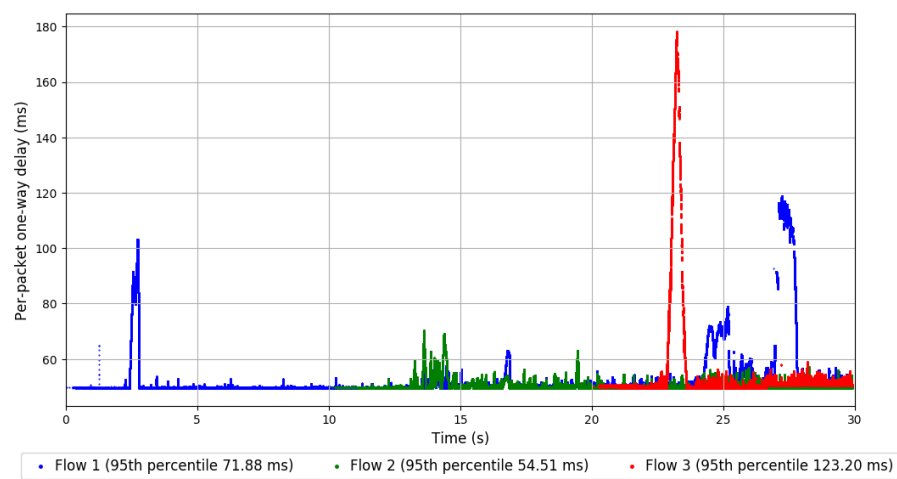
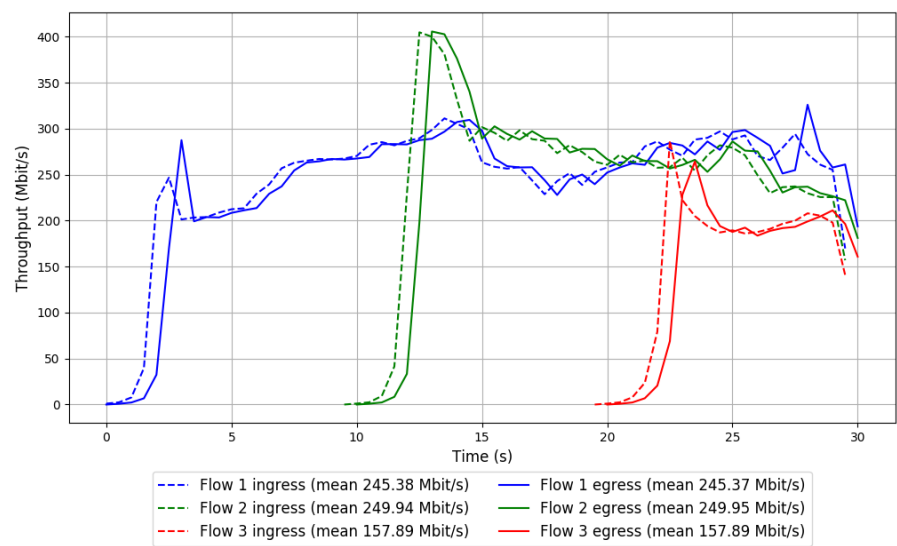
-- Flow 3:

Average throughput: 157.89 Mbit/s

95th percentile per-packet one-way delay: 123.203 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-26 05:28:51

End at: 2018-05-26 05:29:21

Local clock offset: -0.58 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-05-26 08:55:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 477.59 Mbit/s

95th percentile per-packet one-way delay: 161.362 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 272.46 Mbit/s

95th percentile per-packet one-way delay: 186.620 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 282.09 Mbit/s

95th percentile per-packet one-way delay: 145.236 ms

Loss rate: 0.07%

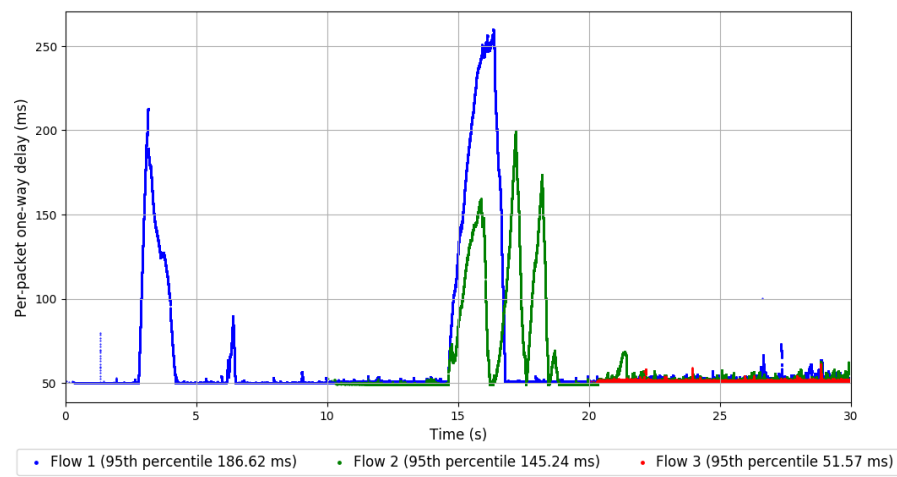
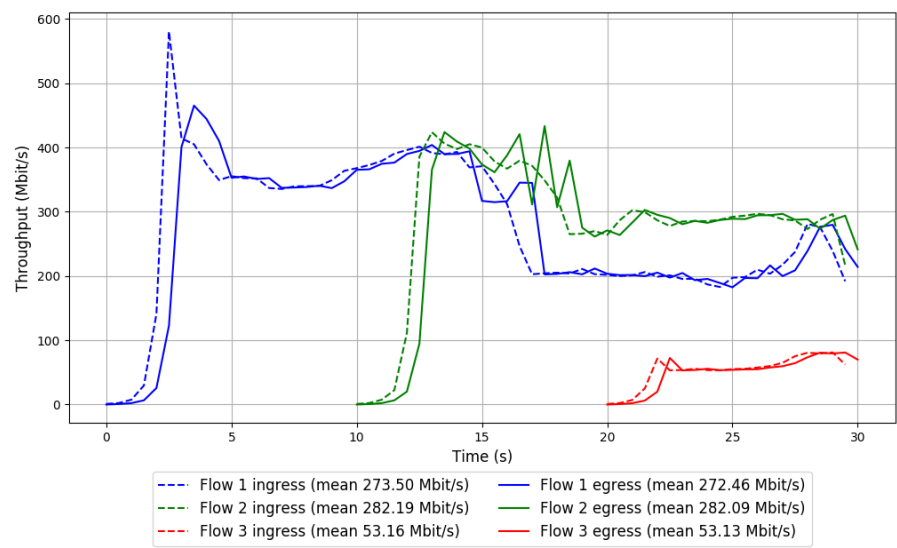
-- Flow 3:

Average throughput: 53.13 Mbit/s

95th percentile per-packet one-way delay: 51.573 ms

Loss rate: 0.06%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-26 05:51:58

End at: 2018-05-26 05:52:28

Local clock offset: -0.134 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-05-26 08:55:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 386.33 Mbit/s

95th percentile per-packet one-way delay: 171.766 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 207.39 Mbit/s

95th percentile per-packet one-way delay: 165.959 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 216.49 Mbit/s

95th percentile per-packet one-way delay: 201.434 ms

Loss rate: 0.02%

-- Flow 3:

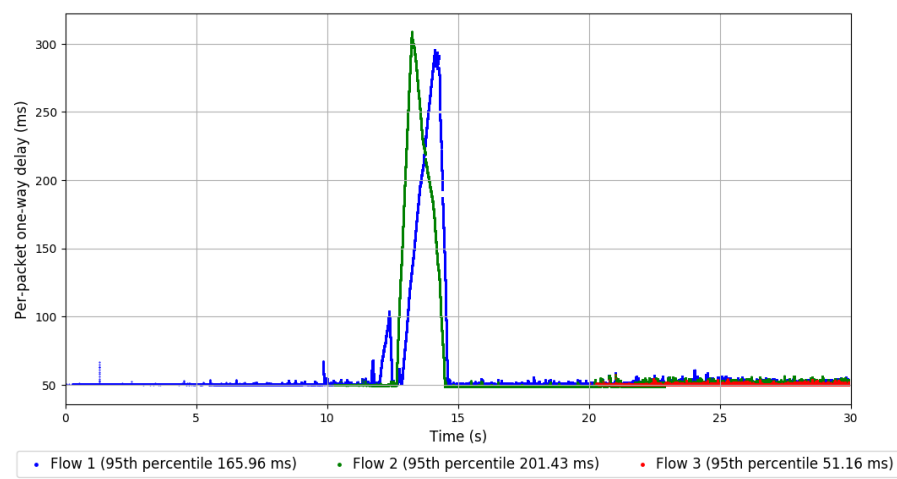
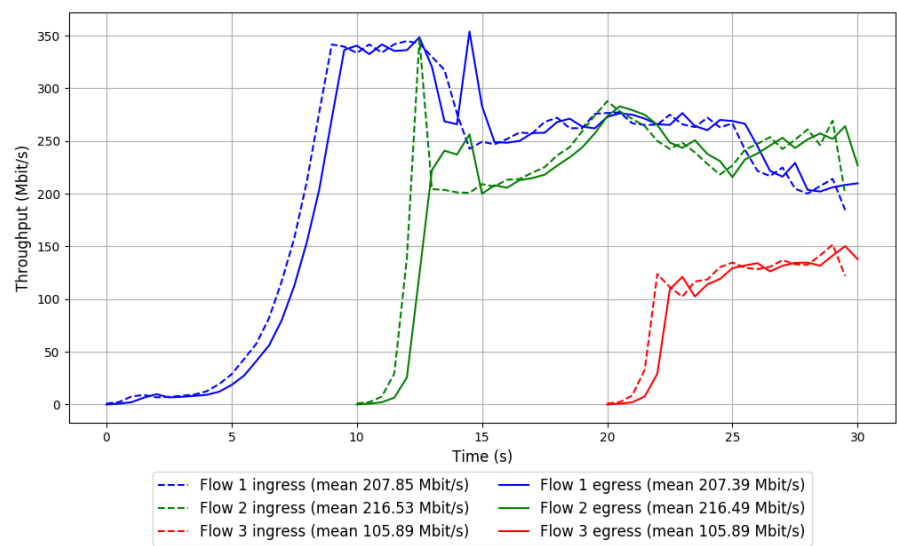
Average throughput: 105.89 Mbit/s

95th percentile per-packet one-way delay: 51.163 ms

Loss rate: 0.00%



Run 9: Report of PCC-Vivace — Data Link

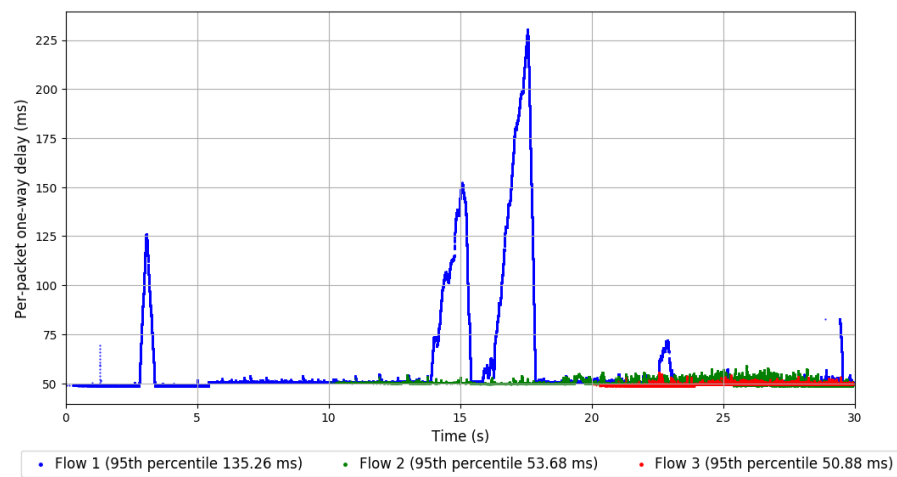
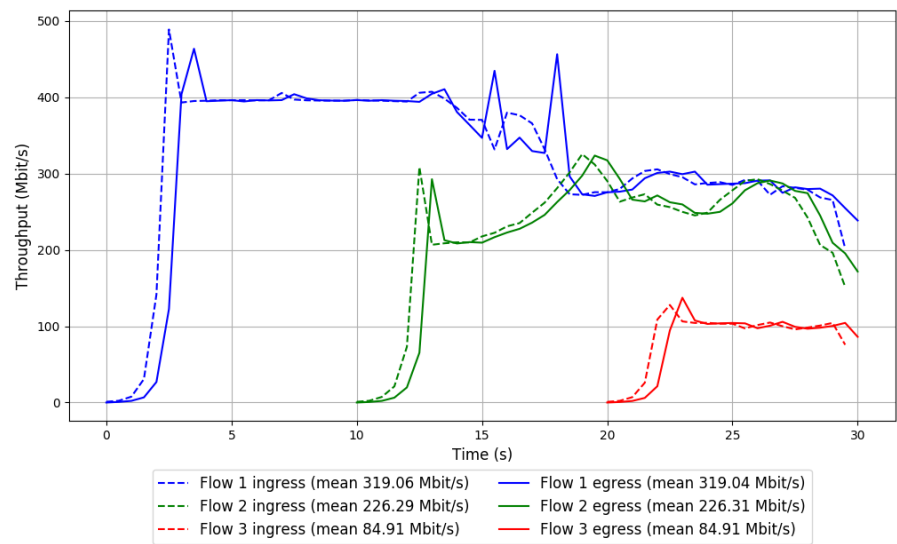


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-26 06:15:06  
End at: 2018-05-26 06:15:36  
Local clock offset: -0.118 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-05-26 08:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 497.51 Mbit/s  
95th percentile per-packet one-way delay: 106.997 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 319.04 Mbit/s  
95th percentile per-packet one-way delay: 135.263 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 226.31 Mbit/s  
95th percentile per-packet one-way delay: 53.677 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 84.91 Mbit/s  
95th percentile per-packet one-way delay: 50.881 ms  
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

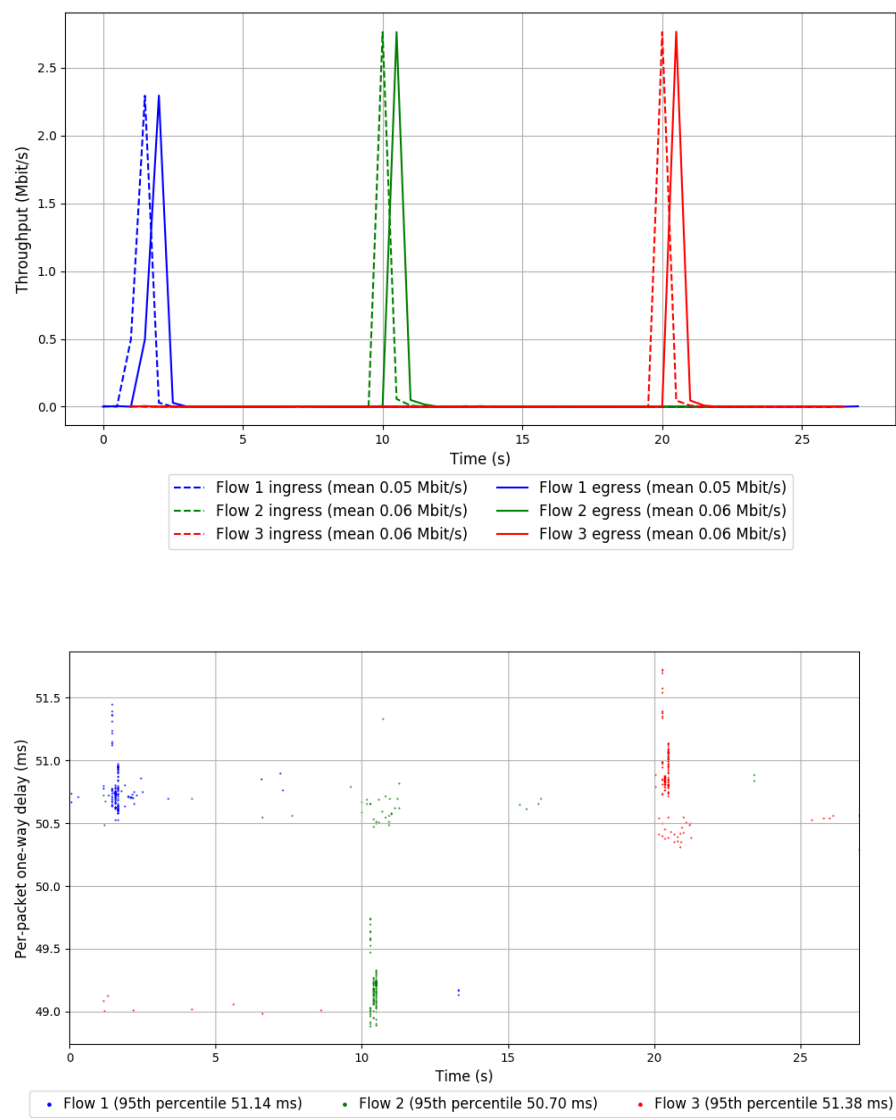


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-26 02:50:52
End at: 2018-05-26 02:51:22
Local clock offset: -0.276 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-05-26 08:55:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 51.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.144 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.697 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.376 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-26 03:13:48

End at: 2018-05-26 03:14:18

Local clock offset: -0.269 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-05-26 08:55:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.712 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.703 ms

Loss rate: 0.00%

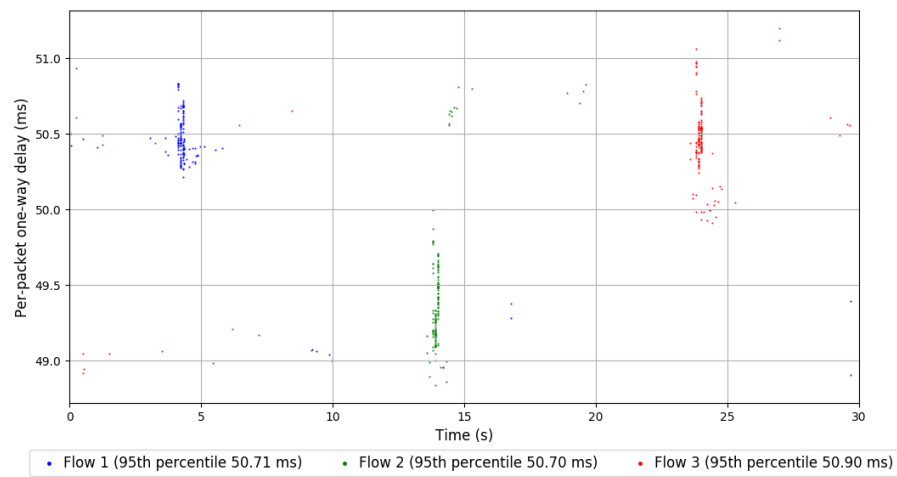
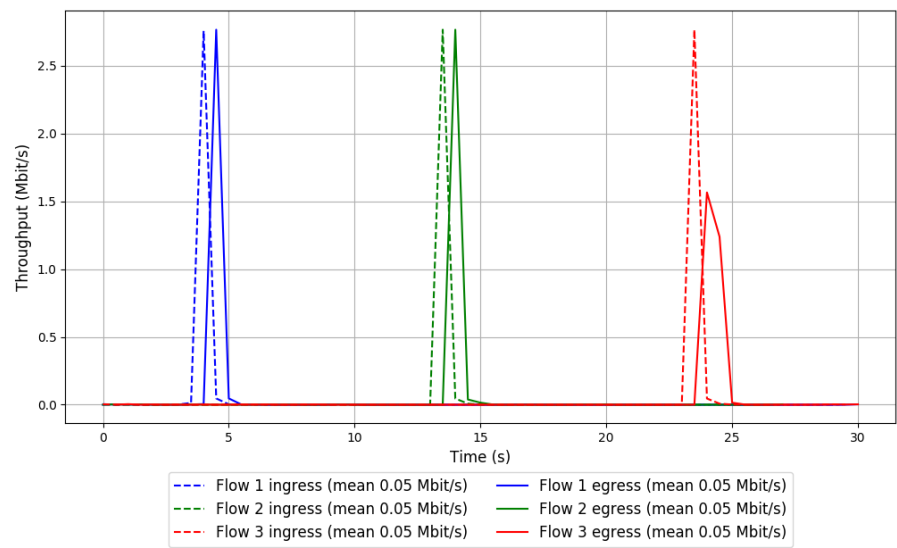
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.898 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



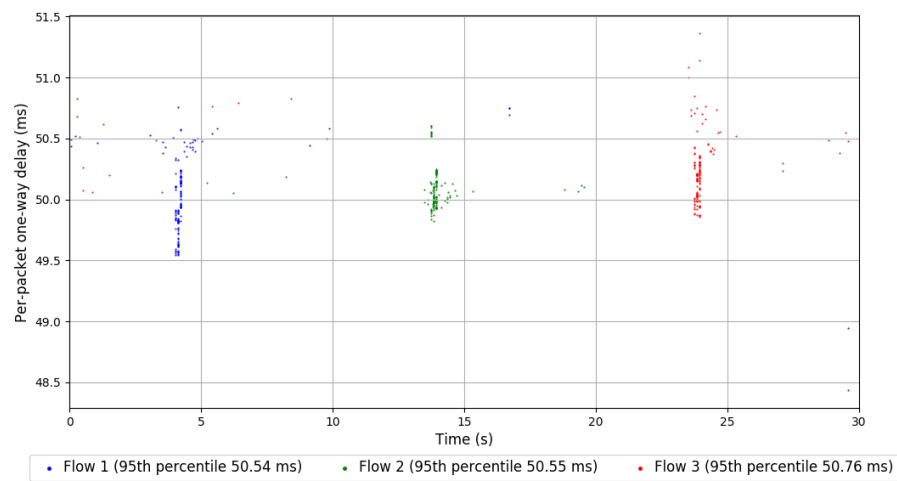
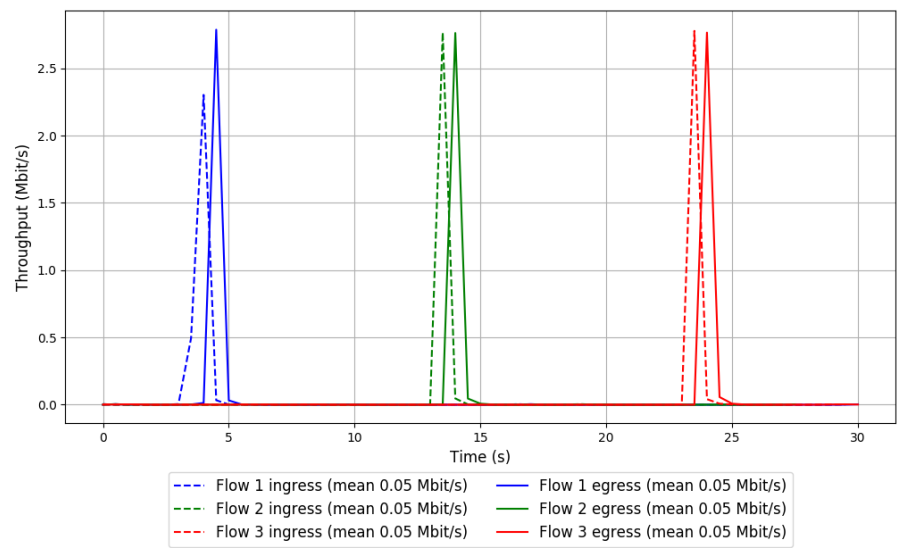
Run 3: Statistics of WebRTC media

Start at: 2018-05-26 03:36:40  
End at: 2018-05-26 03:37:10  
Local clock offset: 0.129 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-05-26 08:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 50.620 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.540 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.545 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.763 ms  
Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link

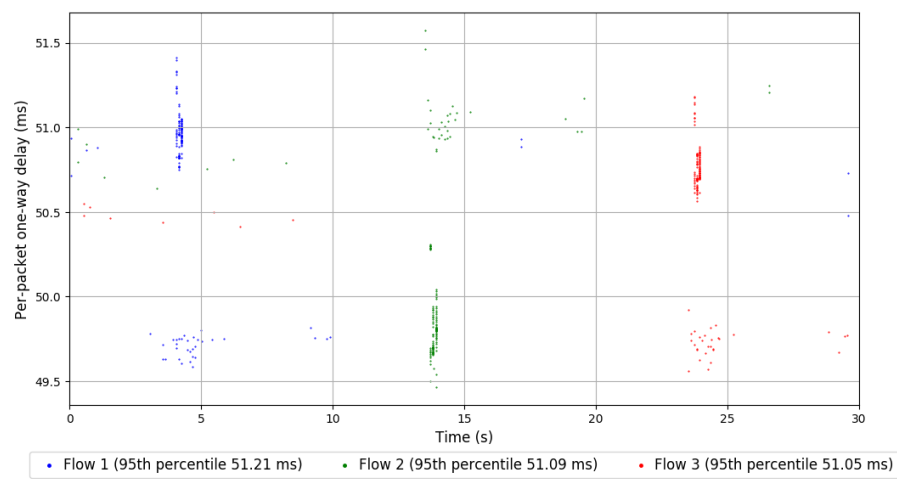
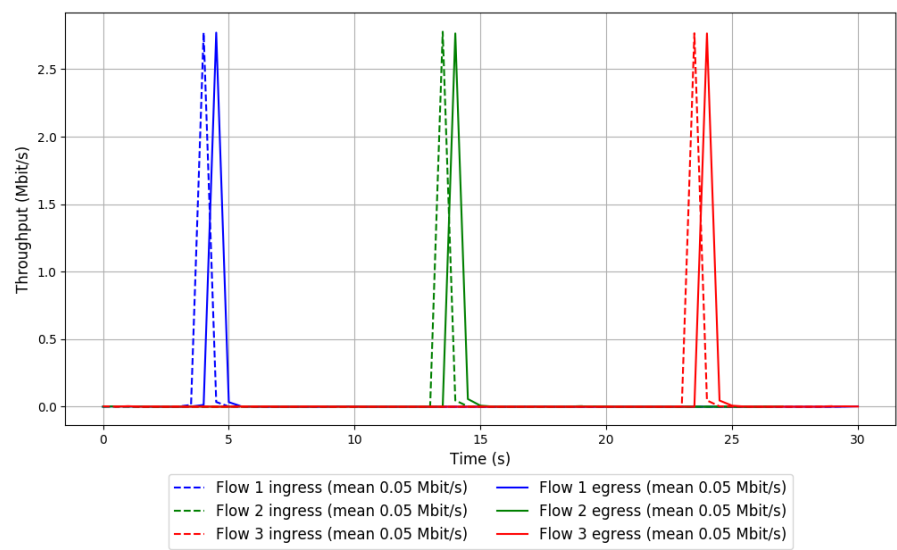


Run 4: Statistics of WebRTC media

Start at: 2018-05-26 03:59:42  
End at: 2018-05-26 04:00:12  
Local clock offset: -0.216 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-05-26 08:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 51.102 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 51.212 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 51.090 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 51.055 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

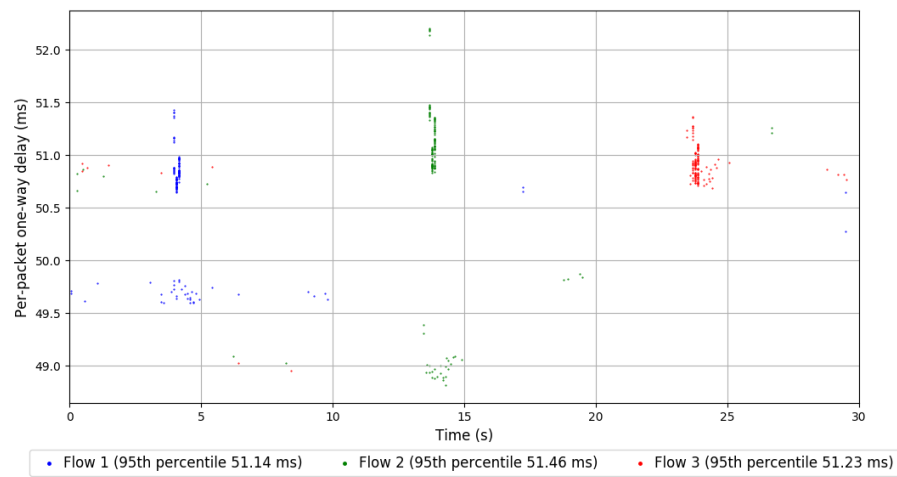
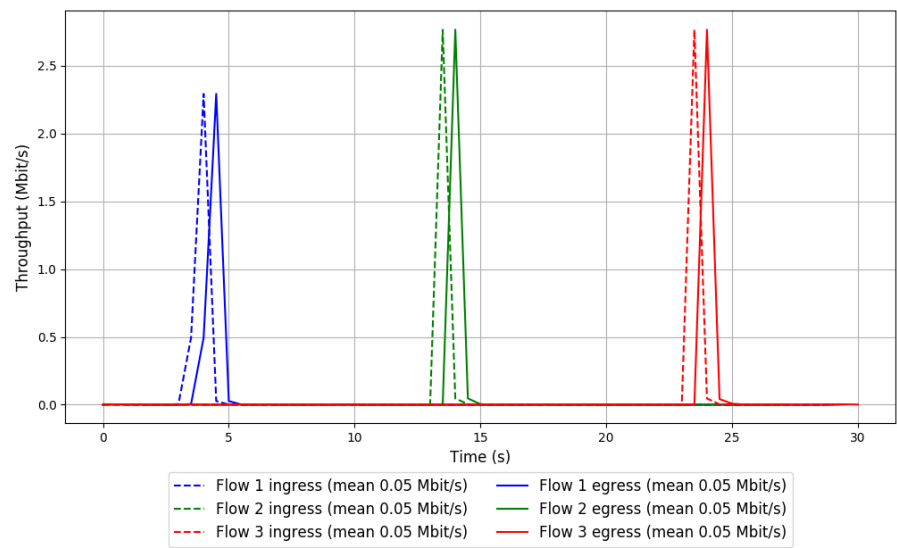


Run 5: Statistics of WebRTC media

Start at: 2018-05-26 04:22:37  
End at: 2018-05-26 04:23:07  
Local clock offset: -0.228 ms  
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2018-05-26 08:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 51.363 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 51.143 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 51.456 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 51.235 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

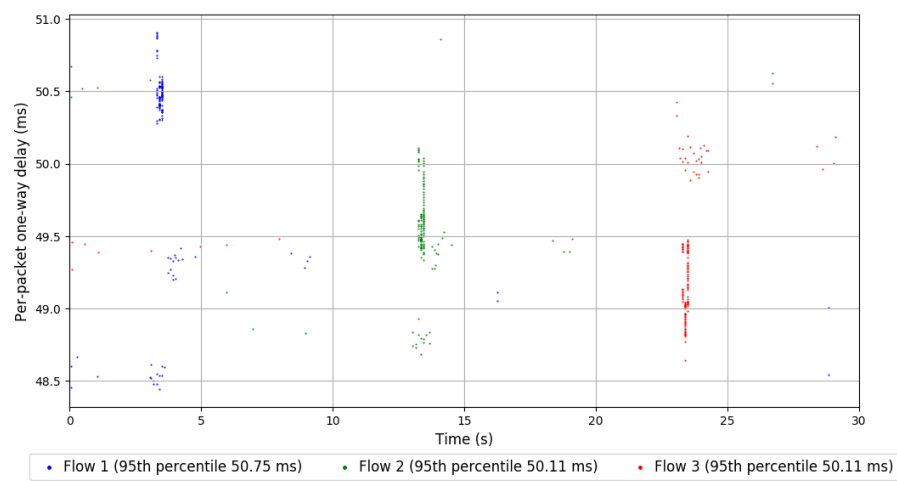
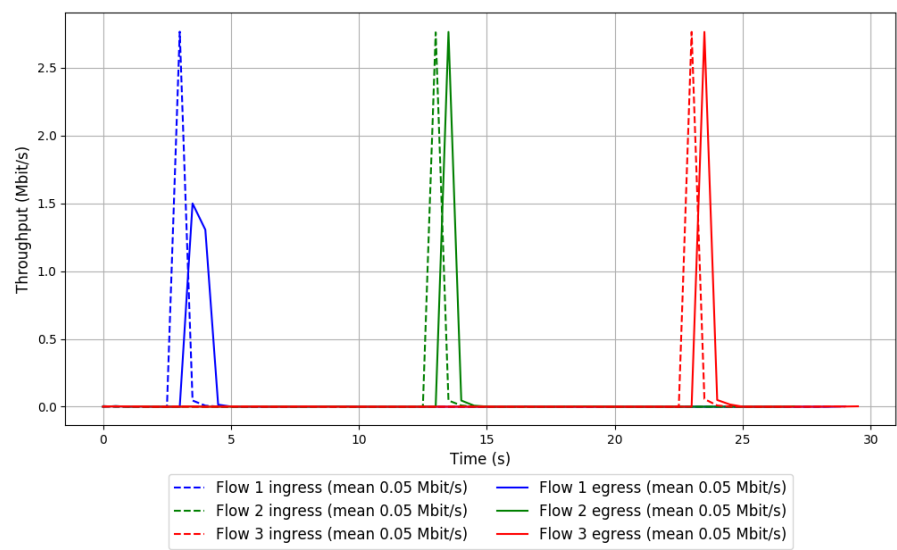


Run 6: Statistics of WebRTC media

Start at: 2018-05-26 04:45:30  
End at: 2018-05-26 04:46:00  
Local clock offset: 0.158 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-05-26 08:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 50.556 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.749 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.108 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.107 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-26 05:08:41

End at: 2018-05-26 05:09:11

Local clock offset: -0.205 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-05-26 08:55:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 50.609 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 49.920 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.210 ms

Loss rate: 0.00%

-- Flow 3:

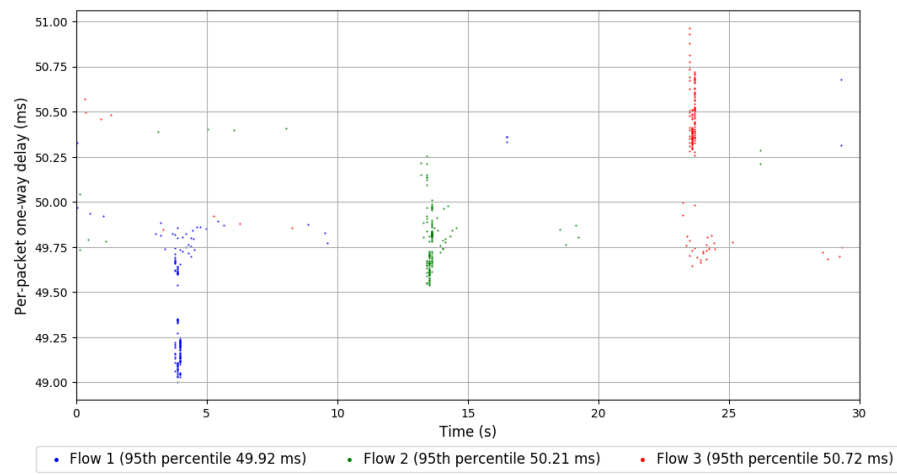
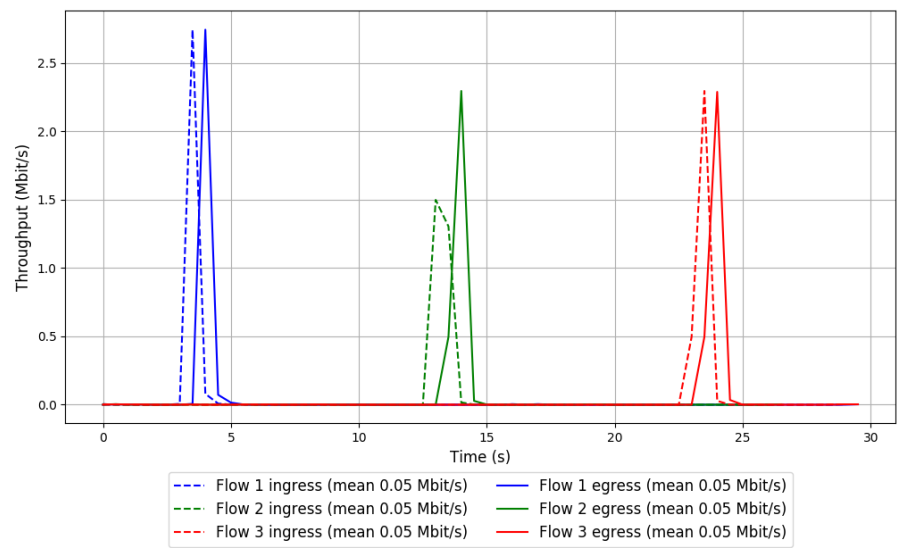
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-26 05:31:40

End at: 2018-05-26 05:32:10

Local clock offset: -0.21 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-05-26 08:55:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 51.372 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 51.429 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.760 ms

Loss rate: 0.00%

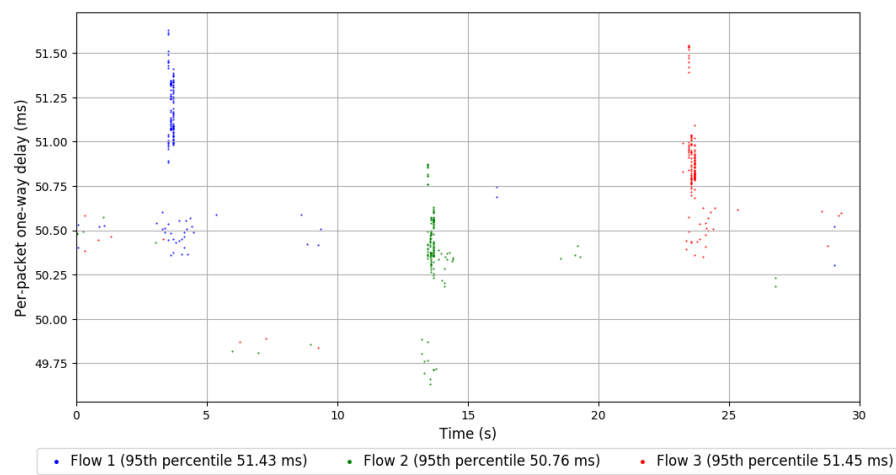
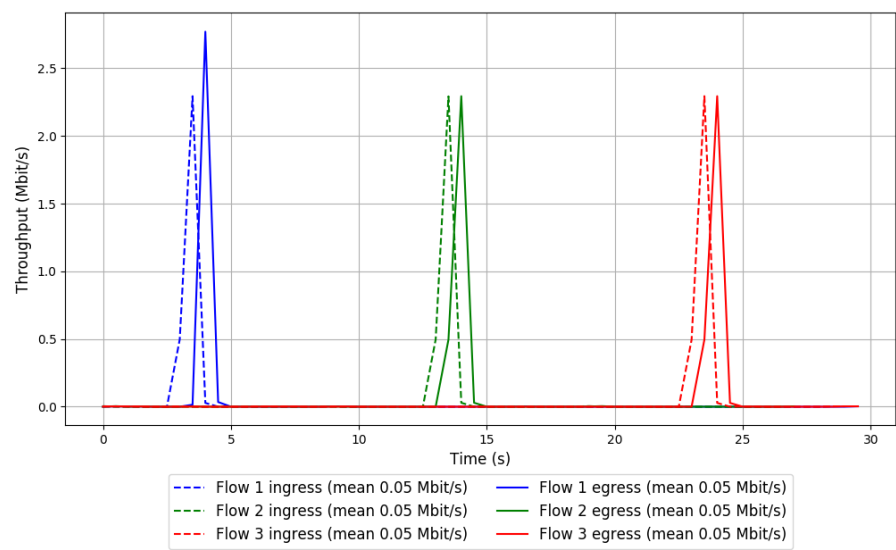
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

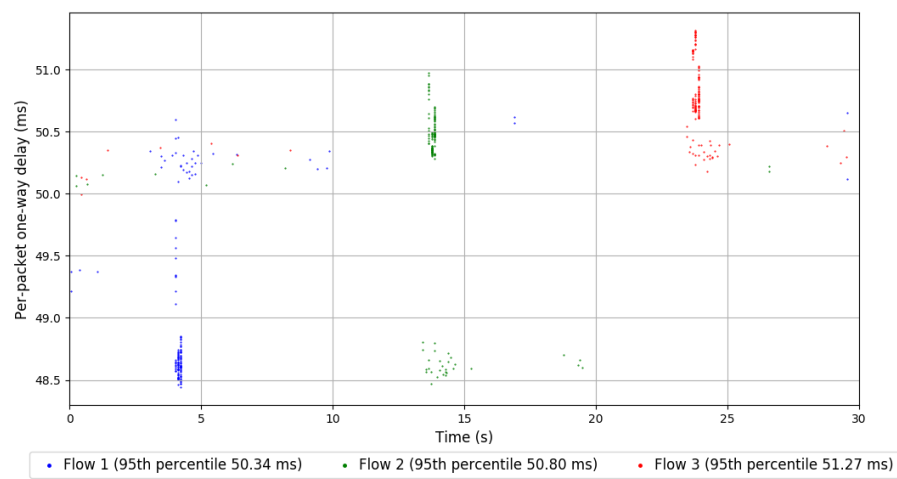
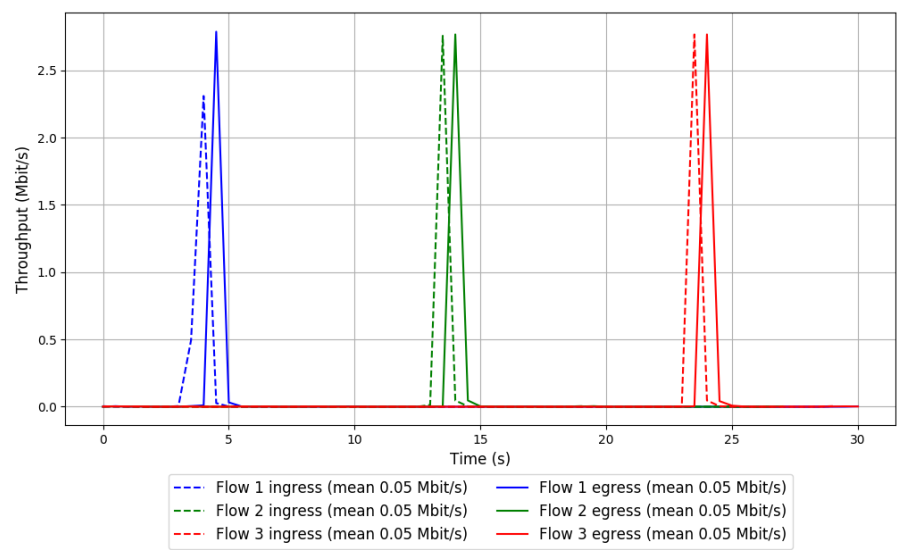


Run 9: Statistics of WebRTC media

Start at: 2018-05-26 05:54:43  
End at: 2018-05-26 05:55:13  
Local clock offset: 0.2 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-05-26 08:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 51.133 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.343 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.800 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 51.274 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-26 06:17:58  
End at: 2018-05-26 06:18:28  
Local clock offset: -0.147 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-05-26 08:55:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 50.887 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.842 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 51.149 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.858 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

