

## Pantheon Report

Generated at 2018-07-11 21:34:00 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

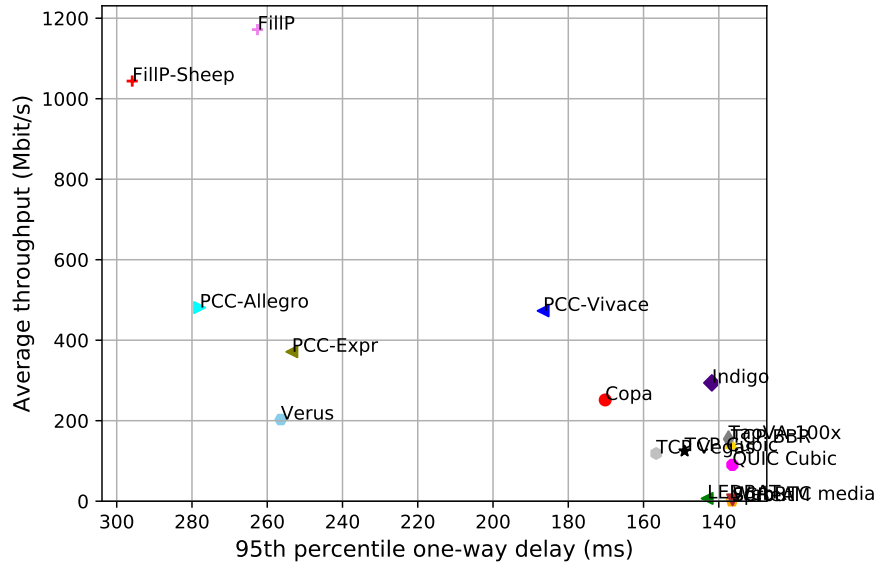
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

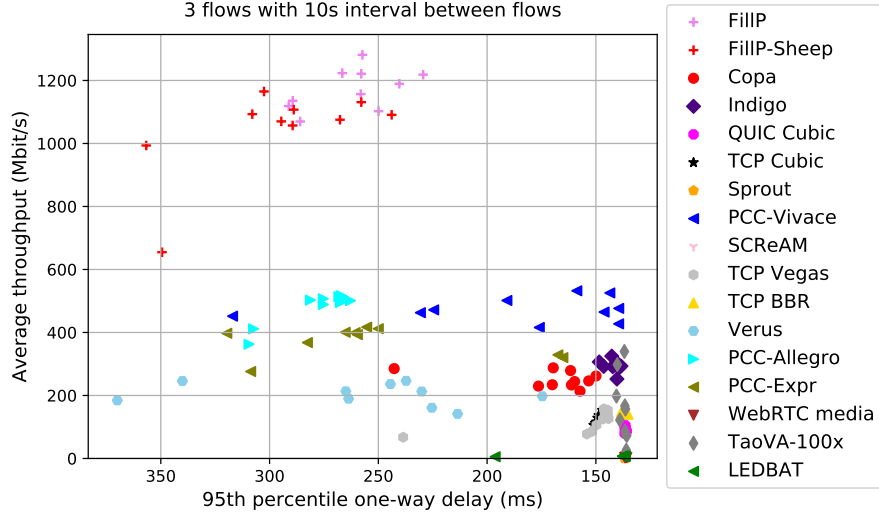
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE London to GCE Sydney, 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 Sydney, 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     | 74.81                  | 74.17  | 65.47  | 136.50                    | 137.07 | 137.33 | 1.00               | 1.46   | 3.38   |
| Copa         | 10     | 147.22                 | 116.47 | 83.53  | 170.98                    | 164.99 | 155.45 | 0.74               | 1.47   | 4.13   |
| TCP Cubic    | 10     | 83.24                  | 46.59  | 32.62  | 149.50                    | 147.58 | 144.47 | 1.01               | 3.13   | 7.01   |
| FillP        | 10     | 637.59                 | 571.27 | 478.25 | 256.49                    | 264.34 | 249.39 | 5.87               | 6.37   | 6.79   |
| FillP-Sheep  | 10     | 553.46                 | 528.82 | 431.54 | 296.18                    | 292.74 | 246.17 | 7.68               | 8.38   | 7.50   |
| Indigo       | 10     | 150.30                 | 155.36 | 126.13 | 140.56                    | 142.22 | 144.25 | 0.91               | 1.37   | 3.65   |
| LEDBAT       | 10     | 4.42                   | 3.07   | 1.30   | 143.12                    | 148.21 | 142.49 | 1.89               | 2.77   | 5.40   |
| PCC-Allegro  | 10     | 437.45                 | 46.81  | 39.02  | 278.34                    | 269.06 | 256.84 | 4.72               | 3.83   | 5.81   |
| PCC-Expr     | 10     | 248.96                 | 157.50 | 55.77  | 257.80                    | 204.55 | 193.10 | 3.74               | 2.97   | 4.06   |
| QUIC Cubic   | 10     | 48.57                  | 43.17  | 39.70  | 136.18                    | 135.92 | 136.34 | 0.93               | 1.83   | 3.11   |
| SCReAM       | 10     | 0.22                   | 0.22   | 0.22   | 136.15                    | 136.15 | 136.17 | 0.89               | 1.43   | 2.52   |
| Sprout       | 10     | 0.16                   | 0.17   | 0.21   | 136.39                    | 136.43 | 136.44 | 0.68               | 1.06   | 1.91   |
| TaoVA-100x   | 10     | 62.60                  | 96.79  | 86.55  | 136.70                    | 137.71 | 140.72 | 0.62               | 1.37   | 3.10   |
| TCP Vegas    | 10     | 62.27                  | 63.85  | 43.79  | 155.37                    | 157.45 | 151.02 | 0.88               | 1.63   | 3.86   |
| Verus        | 10     | 116.65                 | 93.34  | 77.48  | 218.69                    | 253.17 | 251.62 | 1.08               | 4.17   | 5.10   |
| PCC-Vivace   | 10     | 277.99                 | 238.12 | 115.72 | 165.25                    | 208.59 | 163.20 | 1.30               | 2.35   | 4.42   |
| WebRTC media | 10     | 1.80                   | 1.11   | 0.38   | 136.29                    | 136.23 | 136.25 | 1.52               | 2.02   | 3.90   |

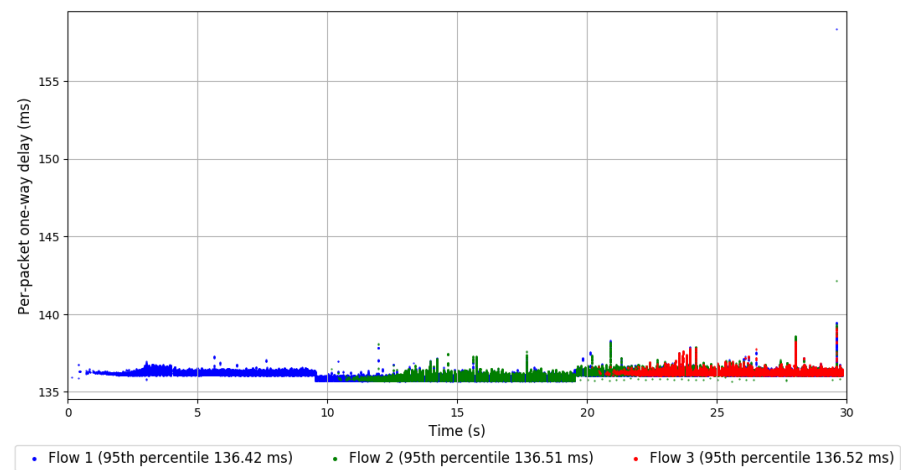
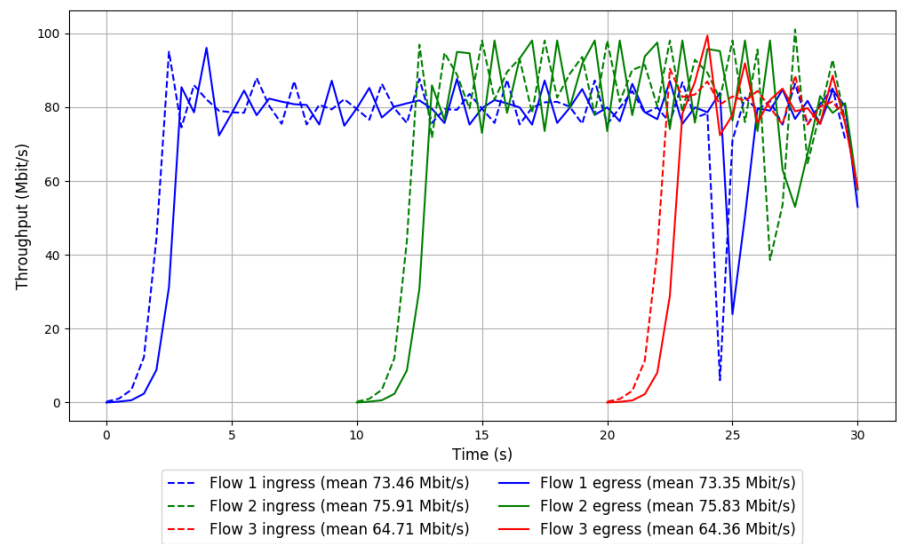
Run 1: Statistics of TCP BBR

Start at: 2018-07-11 14:37:14  
End at: 2018-07-11 14:37:44  
Local clock offset: -0.084 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-07-11 19:20:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 144.55 Mbit/s  
95th percentile per-packet one-way delay: 136.470 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 73.35 Mbit/s  
95th percentile per-packet one-way delay: 136.416 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 75.83 Mbit/s  
95th percentile per-packet one-way delay: 136.510 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 64.36 Mbit/s  
95th percentile per-packet one-way delay: 136.519 ms  
Loss rate: 3.27%



Run 1: Report of TCP BBR — Data Link

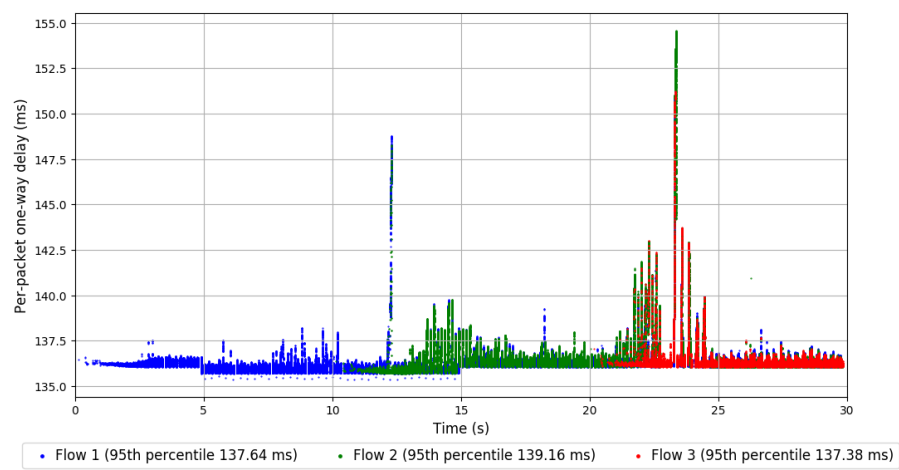
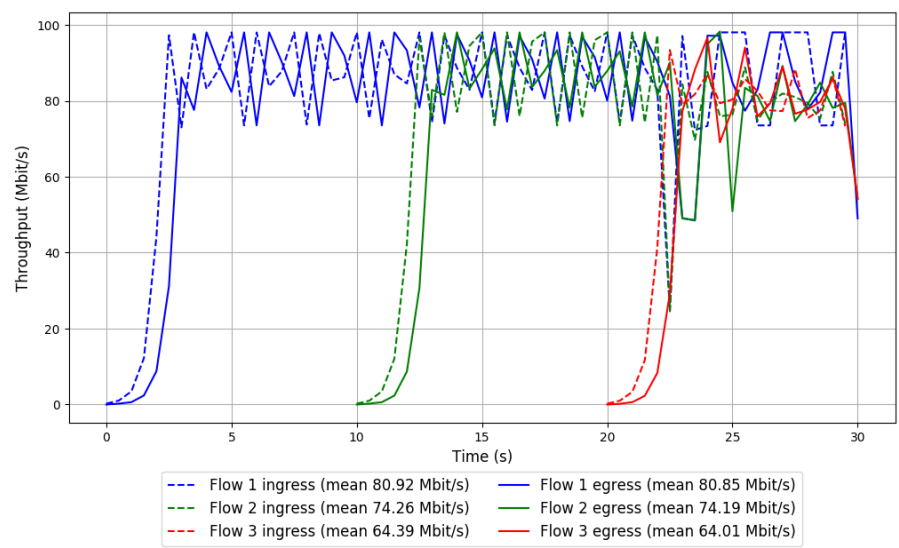


Run 2: Statistics of TCP BBR

Start at: 2018-07-11 15:04:19  
End at: 2018-07-11 15:04:49  
Local clock offset: -0.08 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-07-11 19:20:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 150.62 Mbit/s  
95th percentile per-packet one-way delay: 138.036 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 80.85 Mbit/s  
95th percentile per-packet one-way delay: 137.639 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 74.19 Mbit/s  
95th percentile per-packet one-way delay: 139.160 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 64.01 Mbit/s  
95th percentile per-packet one-way delay: 137.378 ms  
Loss rate: 3.32%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-11 15:31:01

End at: 2018-07-11 15:31:31

Local clock offset: 0.183 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-07-11 19:20:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 141.74 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 72.93 Mbit/s

95th percentile per-packet one-way delay: 136.750 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 72.28 Mbit/s

95th percentile per-packet one-way delay: 136.488 ms

Loss rate: 1.48%

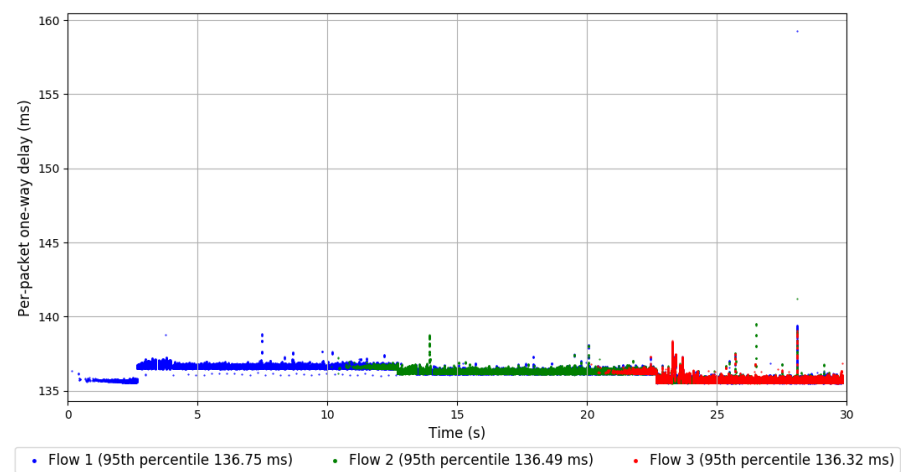
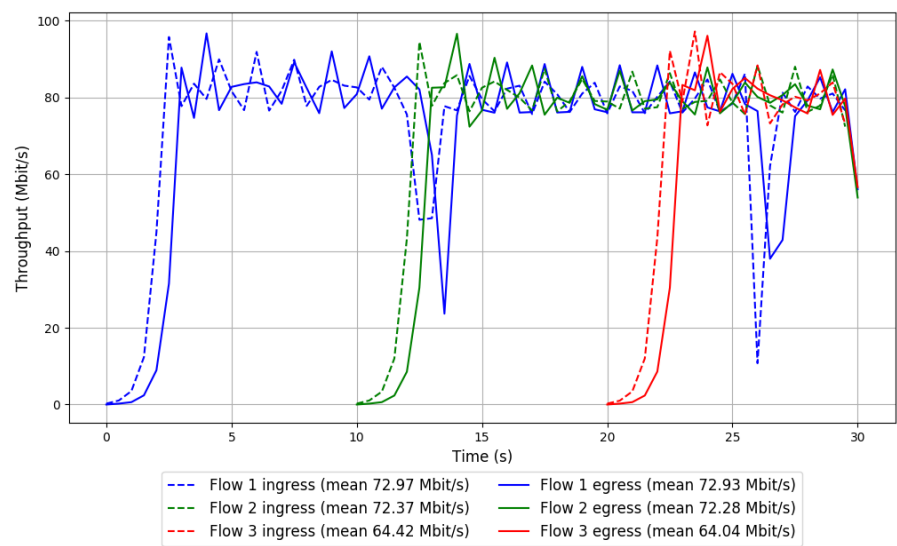
-- Flow 3:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 136.319 ms

Loss rate: 3.32%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-11 15:57:47

End at: 2018-07-11 15:58:17

Local clock offset: -0.112 ms

Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2018-07-11 19:20:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 140.32 Mbit/s

95th percentile per-packet one-way delay: 135.178 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 72.26 Mbit/s

95th percentile per-packet one-way delay: 135.175 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 70.55 Mbit/s

95th percentile per-packet one-way delay: 135.181 ms

Loss rate: 1.63%

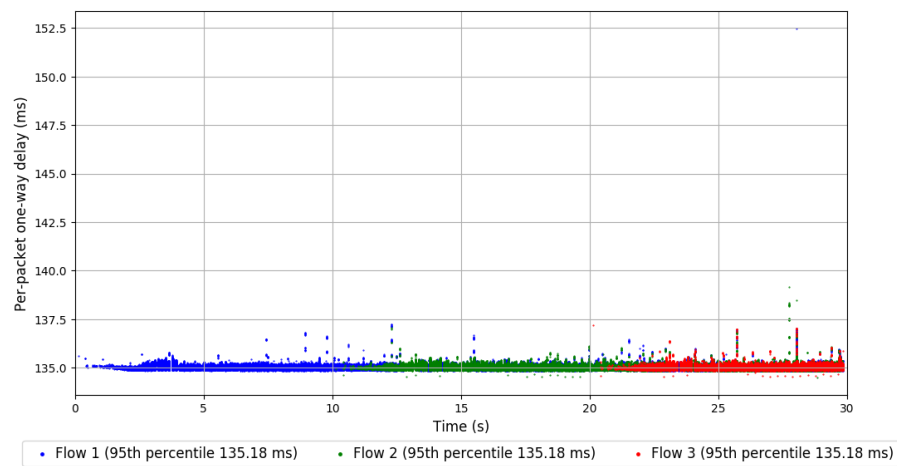
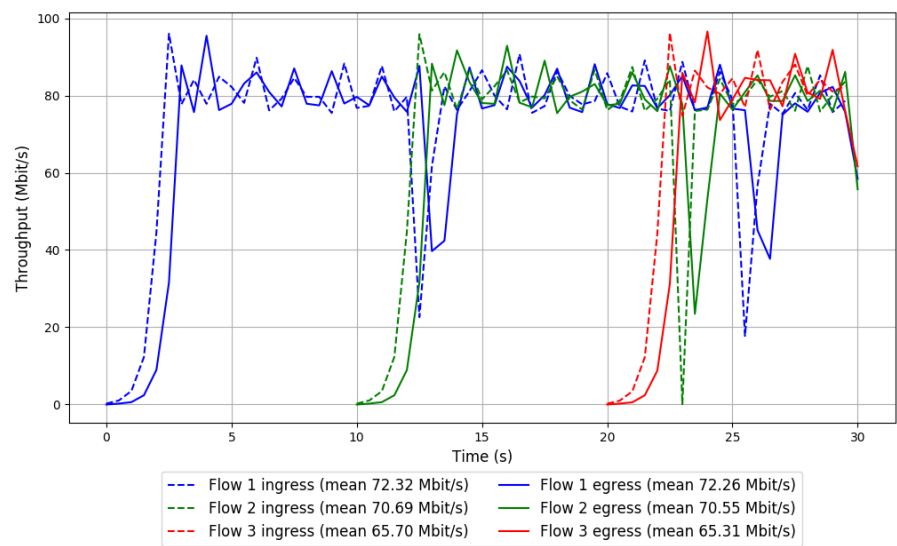
-- Flow 3:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 135.181 ms

Loss rate: 3.32%

Run 4: Report of TCP BBR — Data Link



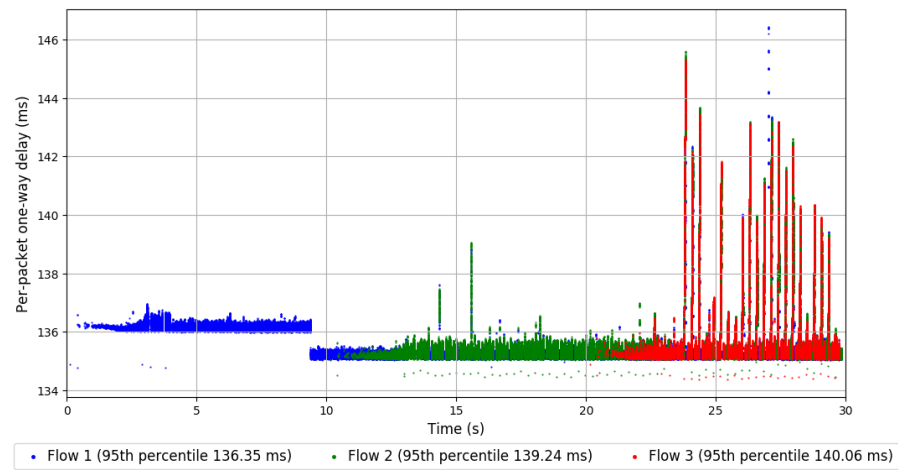
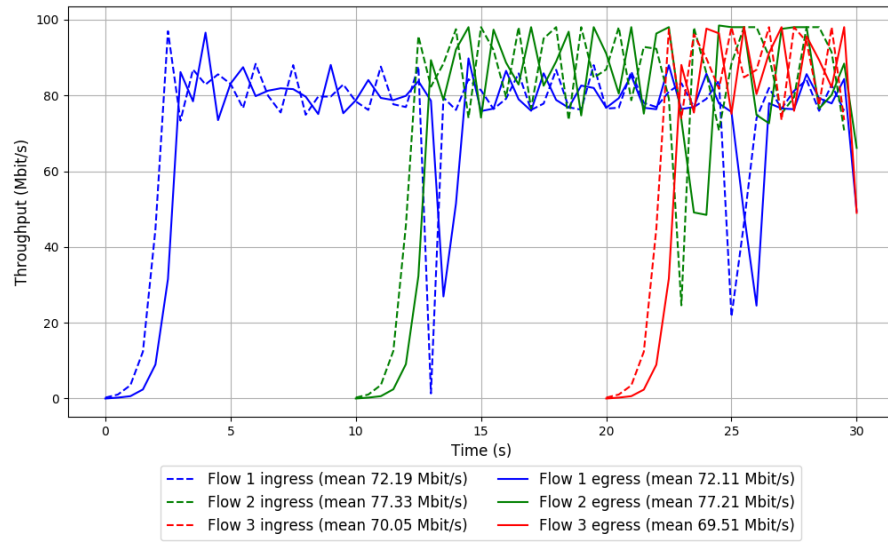
Run 5: Statistics of TCP BBR

Start at: 2018-07-11 16:24:14  
End at: 2018-07-11 16:24:44  
Local clock offset: -0.223 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-07-11 19:20:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 145.68 Mbit/s  
95th percentile per-packet one-way delay: 138.216 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 72.11 Mbit/s  
95th percentile per-packet one-way delay: 136.347 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 77.21 Mbit/s  
95th percentile per-packet one-way delay: 139.239 ms  
Loss rate: 1.52%  
-- Flow 3:  
Average throughput: 69.51 Mbit/s  
95th percentile per-packet one-way delay: 140.061 ms  
Loss rate: 3.54%



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



Run 6: Statistics of TCP BBR

Start at: 2018-07-11 16:51:33

End at: 2018-07-11 16:52:03

Local clock offset: -0.074 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-07-11 19:20:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 149.88 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 77.94 Mbit/s

95th percentile per-packet one-way delay: 136.110 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 76.65 Mbit/s

95th percentile per-packet one-way delay: 136.883 ms

Loss rate: 1.51%

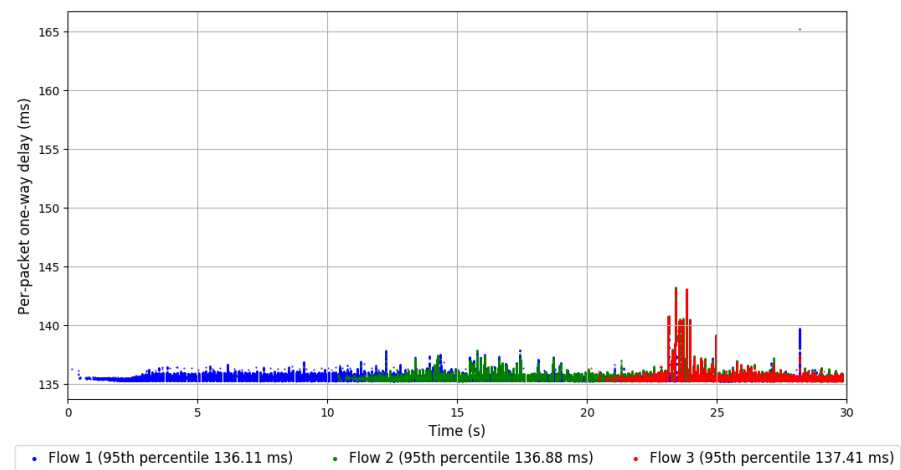
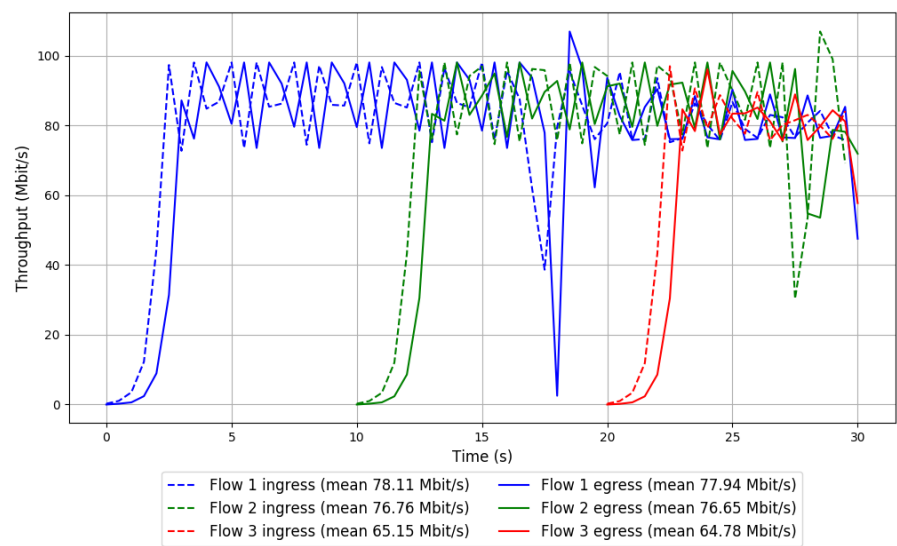
-- Flow 3:

Average throughput: 64.78 Mbit/s

95th percentile per-packet one-way delay: 137.414 ms

Loss rate: 3.30%

Run 6: Report of TCP BBR — Data Link

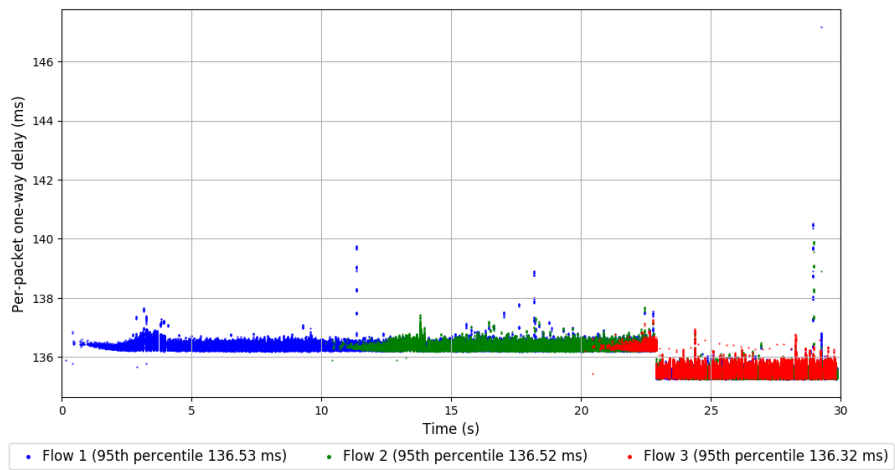
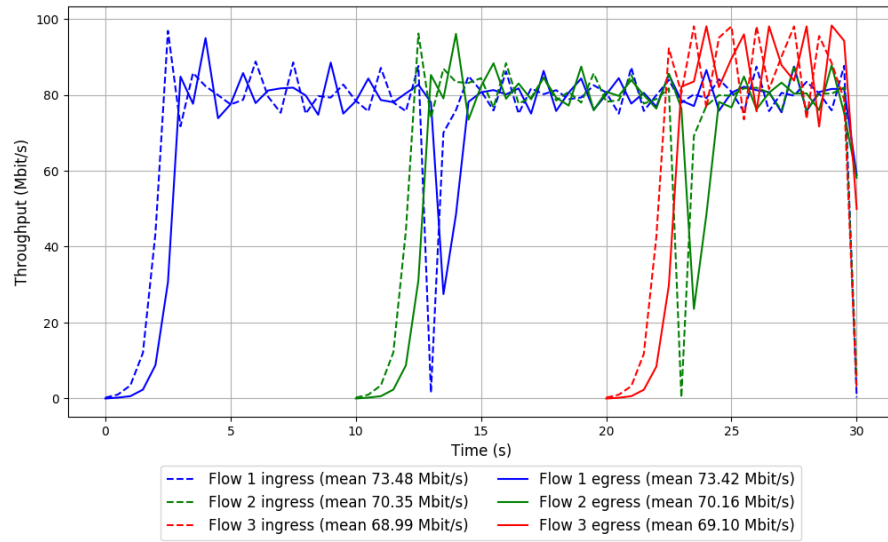


Run 7: Statistics of TCP BBR

Start at: 2018-07-11 17:18:11  
End at: 2018-07-11 17:18:41  
Local clock offset: -0.085 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-07-11 19:20:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 142.32 Mbit/s  
95th percentile per-packet one-way delay: 136.512 ms  
Loss rate: 1.72%  
-- Flow 1:  
Average throughput: 73.42 Mbit/s  
95th percentile per-packet one-way delay: 136.527 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 70.16 Mbit/s  
95th percentile per-packet one-way delay: 136.520 ms  
Loss rate: 1.84%  
-- Flow 3:  
Average throughput: 69.10 Mbit/s  
95th percentile per-packet one-way delay: 136.321 ms  
Loss rate: 3.56%

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



Run 8: Statistics of TCP BBR

Start at: 2018-07-11 17:44:56

End at: 2018-07-11 17:45:26

Local clock offset: -0.015 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-07-11 19:20:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 148.34 Mbit/s

95th percentile per-packet one-way delay: 136.760 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 78.19 Mbit/s

95th percentile per-packet one-way delay: 136.796 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 136.674 ms

Loss rate: 1.46%

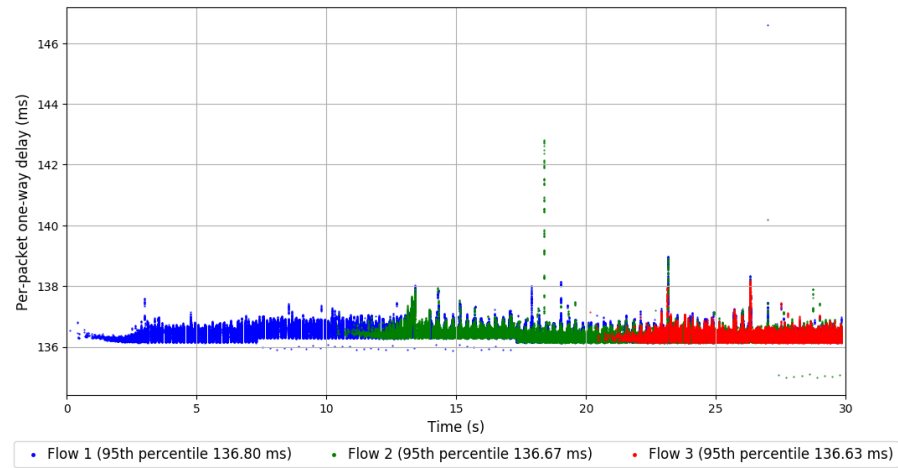
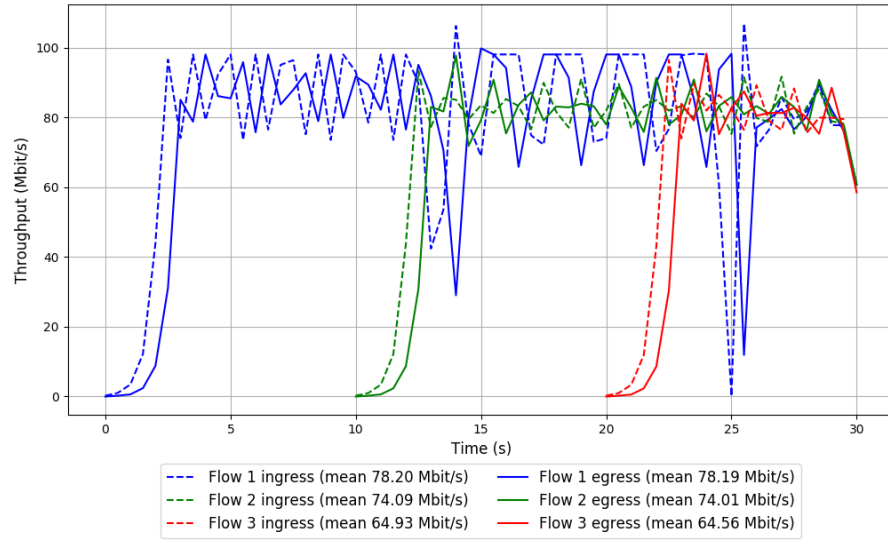
-- Flow 3:

Average throughput: 64.56 Mbit/s

95th percentile per-packet one-way delay: 136.627 ms

Loss rate: 3.29%

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



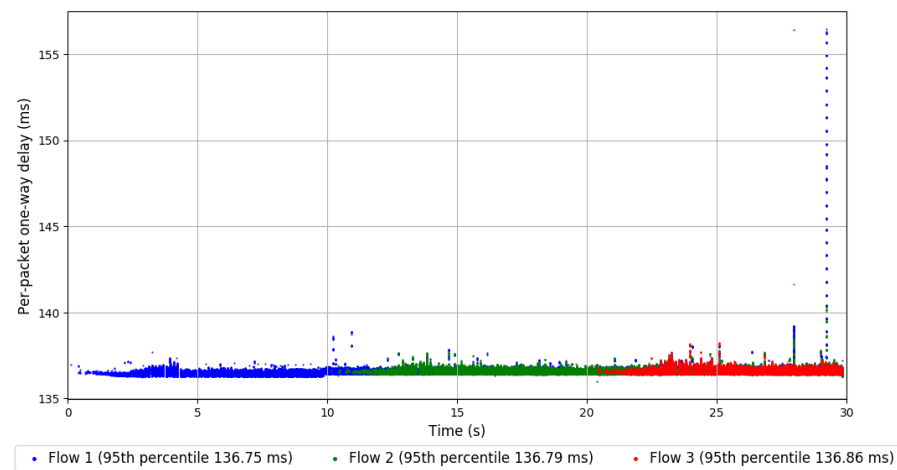
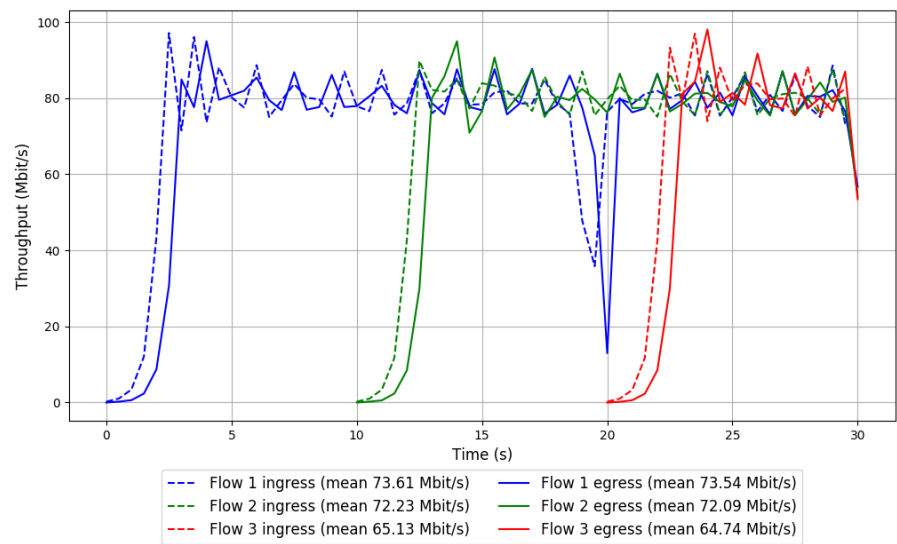
Run 9: Statistics of TCP BBR

Start at: 2018-07-11 18:11:44  
End at: 2018-07-11 18:12:14  
Local clock offset: 0.134 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-07-11 19:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 142.41 Mbit/s  
95th percentile per-packet one-way delay: 136.784 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 73.54 Mbit/s  
95th percentile per-packet one-way delay: 136.751 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 72.09 Mbit/s  
95th percentile per-packet one-way delay: 136.791 ms  
Loss rate: 1.56%  
-- Flow 3:  
Average throughput: 64.74 Mbit/s  
95th percentile per-packet one-way delay: 136.856 ms  
Loss rate: 3.56%



Run 9: Report of TCP BBR — Data Link

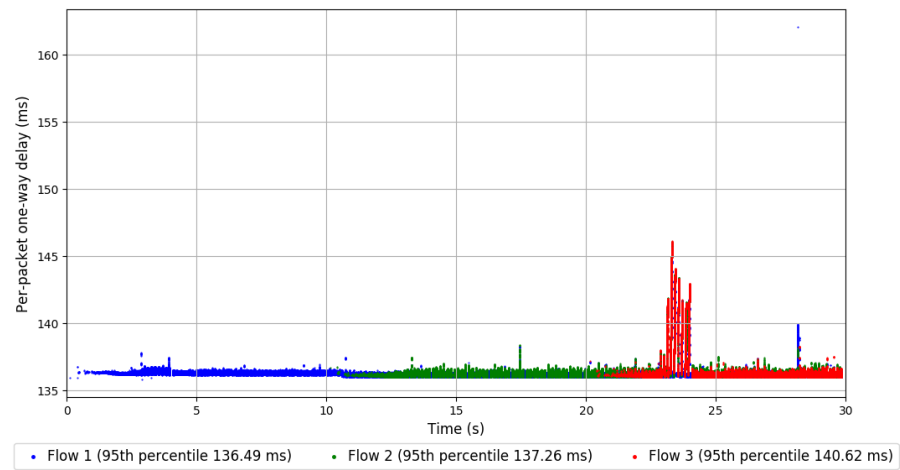
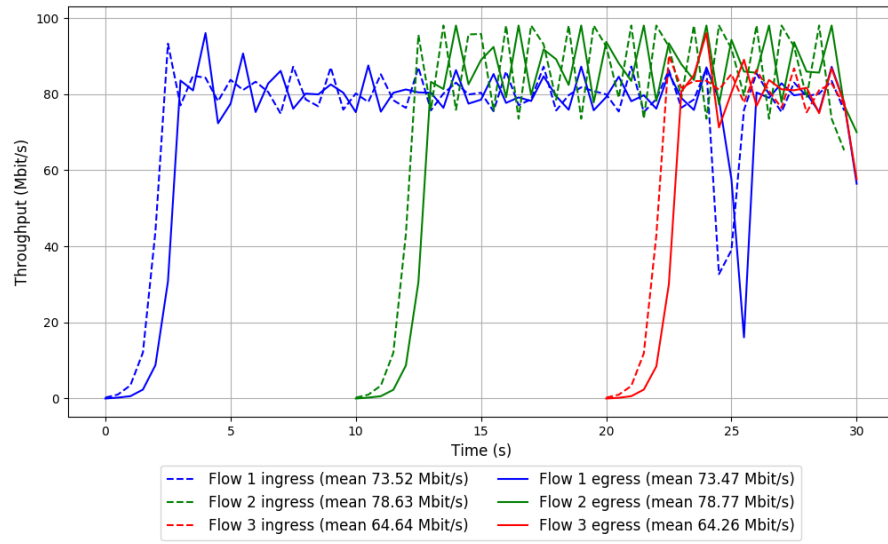


Run 10: Statistics of TCP BBR

Start at: 2018-07-11 18:38:33  
End at: 2018-07-11 18:39:03  
Local clock offset: -0.163 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-07-11 19:22:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 146.59 Mbit/s  
95th percentile per-packet one-way delay: 136.771 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 73.47 Mbit/s  
95th percentile per-packet one-way delay: 136.494 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 78.77 Mbit/s  
95th percentile per-packet one-way delay: 137.263 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 64.26 Mbit/s  
95th percentile per-packet one-way delay: 140.618 ms  
Loss rate: 3.33%

# Run 10: Report of TCP BBR — Data Link

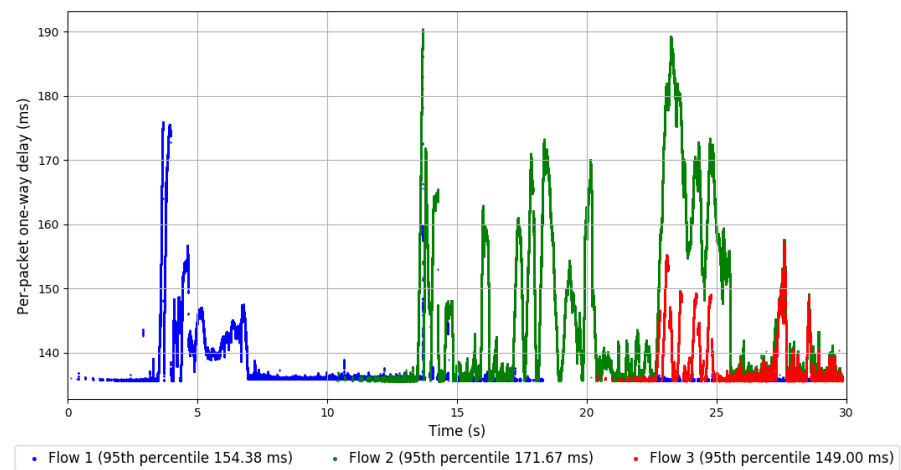
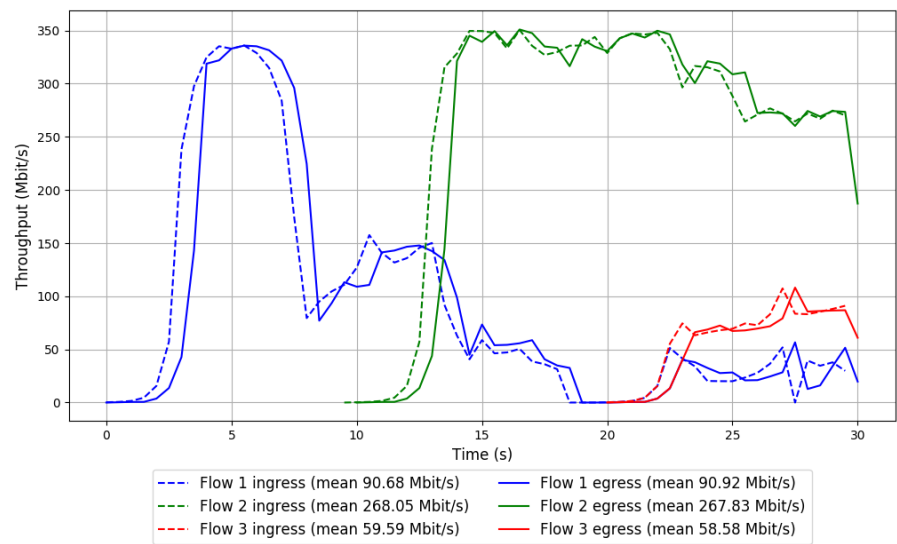


Run 1: Statistics of Copa

Start at: 2018-07-11 14:47:09  
End at: 2018-07-11 14:47:39  
Local clock offset: -0.179 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-07-11 19:29:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 287.70 Mbit/s  
95th percentile per-packet one-way delay: 169.600 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 90.92 Mbit/s  
95th percentile per-packet one-way delay: 154.380 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 267.83 Mbit/s  
95th percentile per-packet one-way delay: 171.666 ms  
Loss rate: 1.44%  
-- Flow 3:  
Average throughput: 58.58 Mbit/s  
95th percentile per-packet one-way delay: 149.001 ms  
Loss rate: 4.37%

Run 1: Report of Copa — Data Link

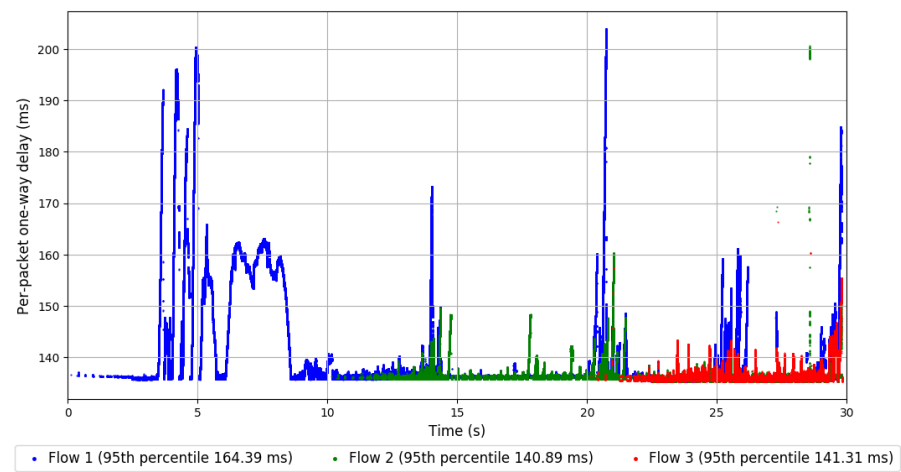
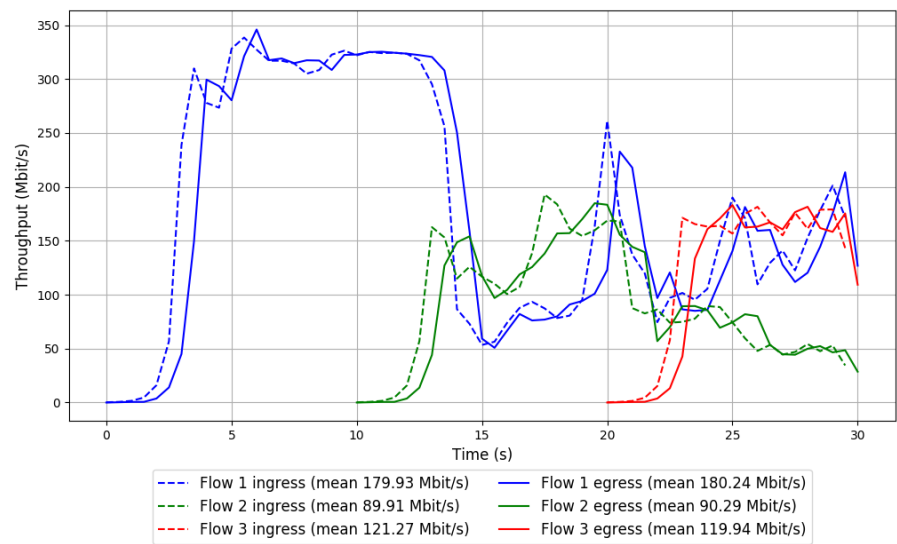


Run 2: Statistics of Copa

Start at: 2018-07-11 15:14:21  
End at: 2018-07-11 15:14:51  
Local clock offset: 0.071 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-07-11 19:29:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 279.01 Mbit/s  
95th percentile per-packet one-way delay: 161.630 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 180.24 Mbit/s  
95th percentile per-packet one-way delay: 164.389 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 90.29 Mbit/s  
95th percentile per-packet one-way delay: 140.893 ms  
Loss rate: 0.67%  
-- Flow 3:  
Average throughput: 119.94 Mbit/s  
95th percentile per-packet one-way delay: 141.305 ms  
Loss rate: 3.81%

Run 2: Report of Copa — Data Link



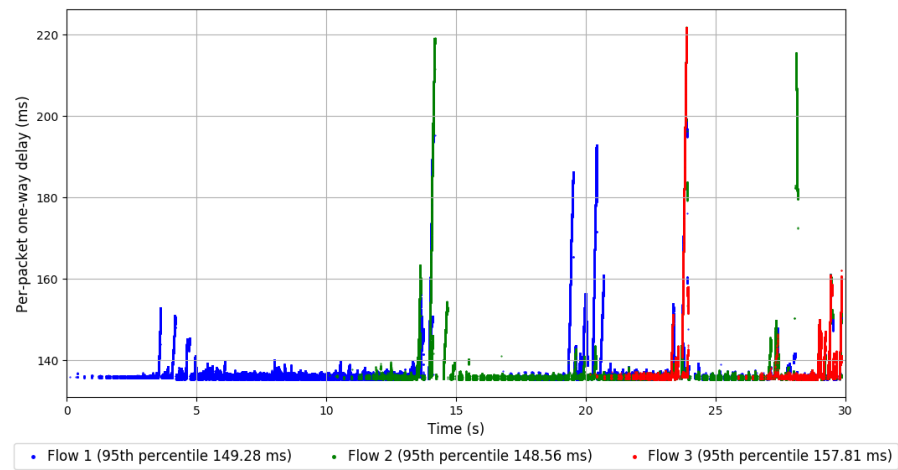
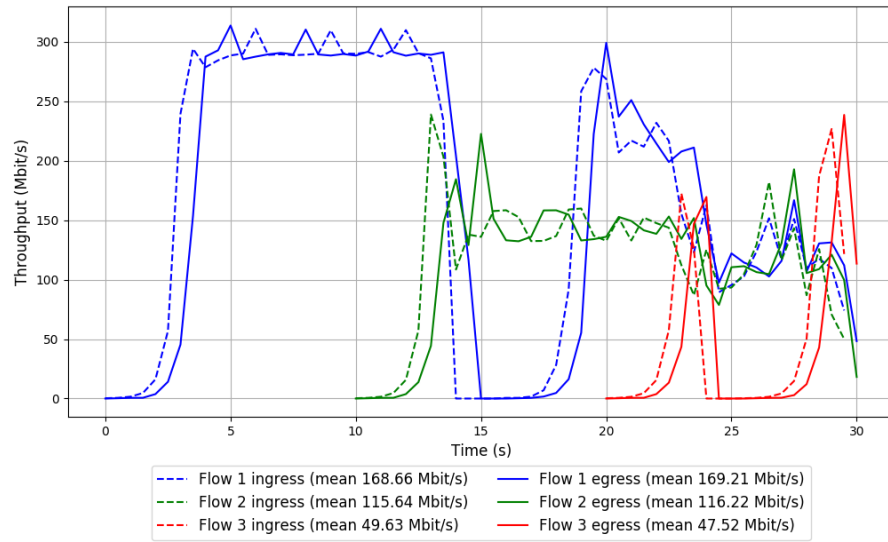
Run 3: Statistics of Copa

Start at: 2018-07-11 15:41:09  
End at: 2018-07-11 15:41:40  
Local clock offset: -0.031 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-07-11 19:29:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 261.79 Mbit/s  
95th percentile per-packet one-way delay: 149.952 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 169.21 Mbit/s  
95th percentile per-packet one-way delay: 149.283 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 116.22 Mbit/s  
95th percentile per-packet one-way delay: 148.558 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 47.52 Mbit/s  
95th percentile per-packet one-way delay: 157.812 ms  
Loss rate: 6.52%



### Run 3: Report of Copa — Data Link

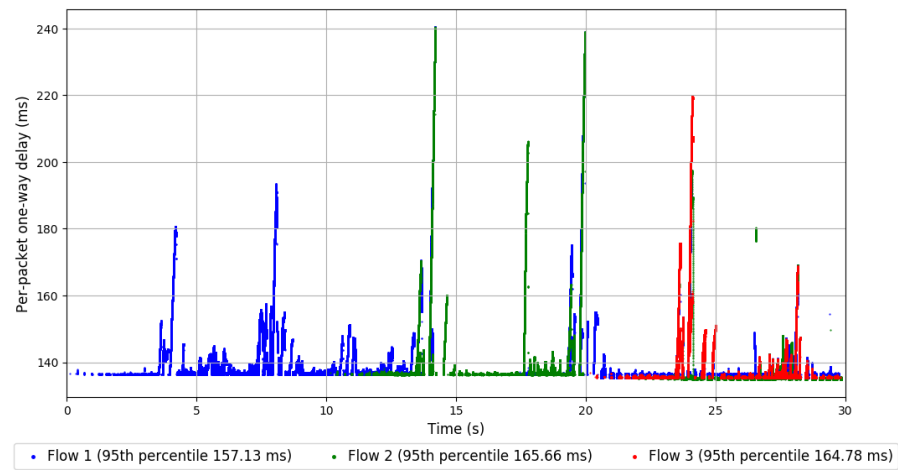
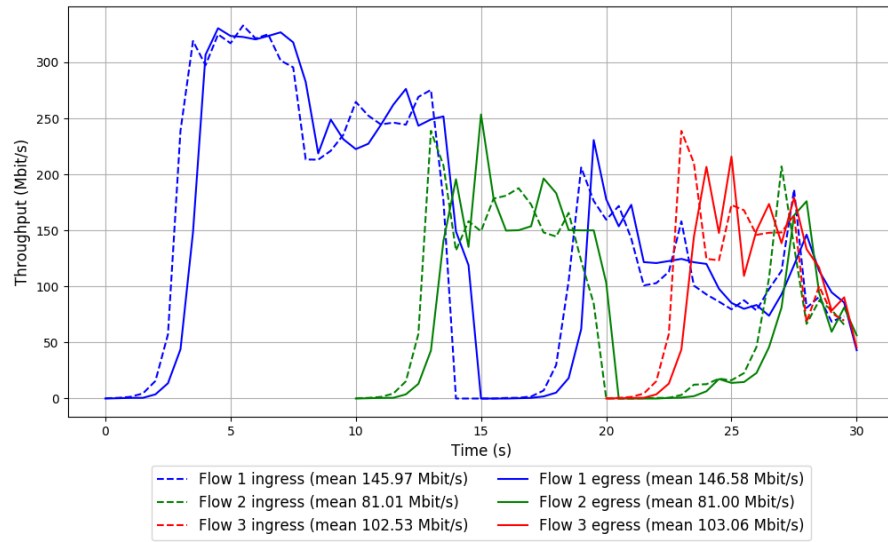


Run 4: Statistics of Copa

Start at: 2018-07-11 16:07:43  
End at: 2018-07-11 16:08:13  
Local clock offset: -0.048 ms  
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2018-07-11 19:29:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 233.39 Mbit/s  
95th percentile per-packet one-way delay: 161.224 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 146.58 Mbit/s  
95th percentile per-packet one-way delay: 157.133 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 81.00 Mbit/s  
95th percentile per-packet one-way delay: 165.656 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 103.06 Mbit/s  
95th percentile per-packet one-way delay: 164.781 ms  
Loss rate: 2.25%

# Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-11 16:34:25

End at: 2018-07-11 16:34:55

Local clock offset: 0.071 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-07-11 19:29:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 246.29 Mbit/s

95th percentile per-packet one-way delay: 153.290 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 170.55 Mbit/s

95th percentile per-packet one-way delay: 146.833 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 56.32 Mbit/s

95th percentile per-packet one-way delay: 159.551 ms

Loss rate: 4.27%

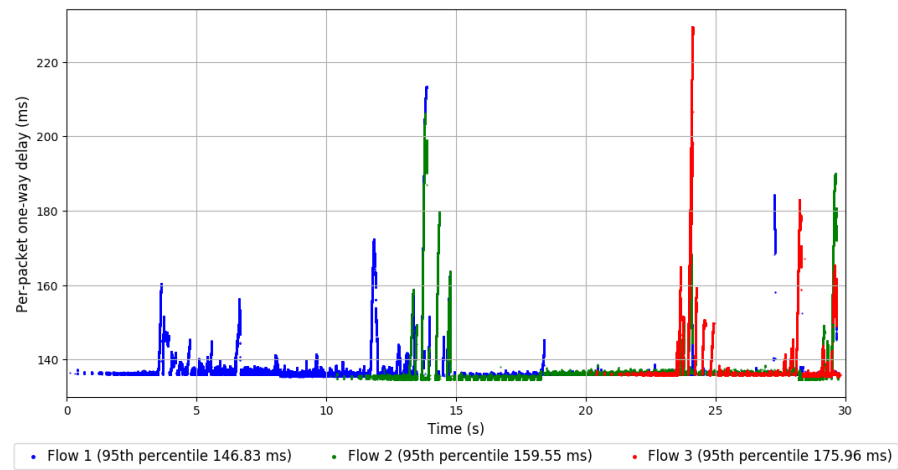
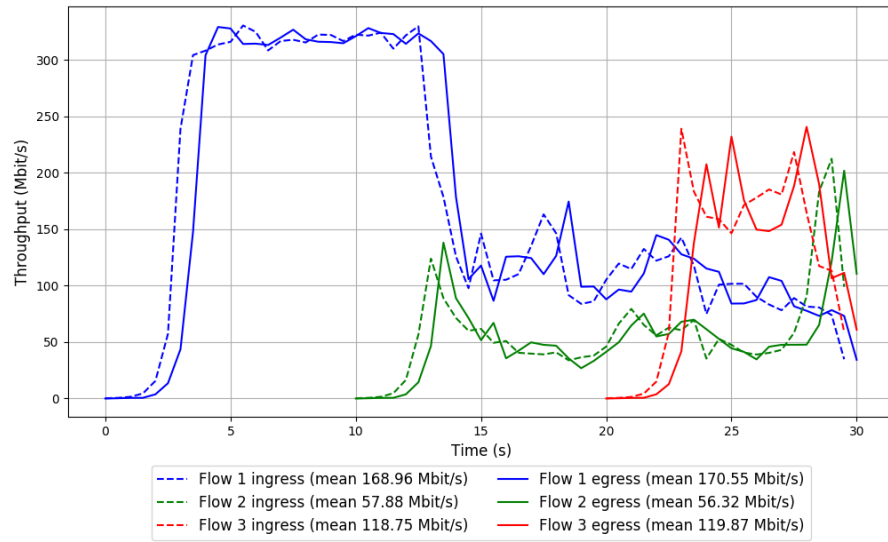
-- Flow 3:

Average throughput: 119.87 Mbit/s

95th percentile per-packet one-way delay: 175.957 ms

Loss rate: 1.82%

## Run 5: Report of Copa — Data Link

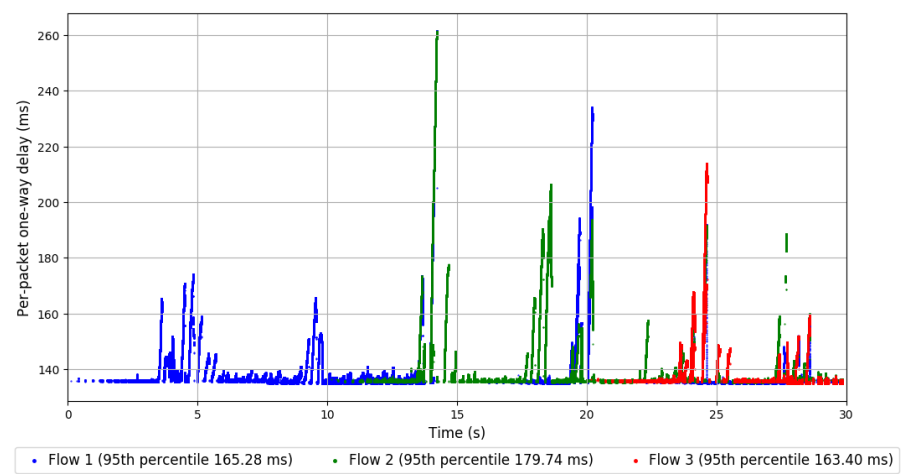
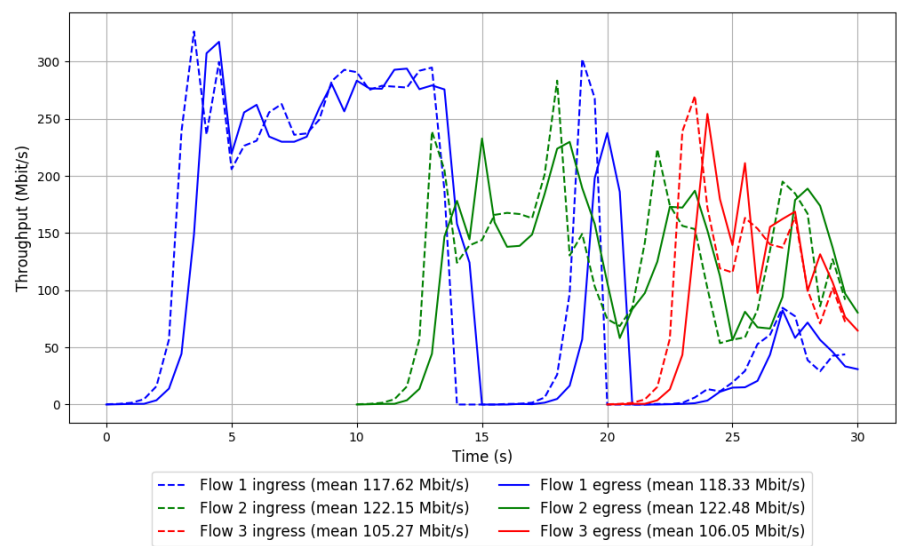


Run 6: Statistics of Copa

Start at: 2018-07-11 17:01:46  
End at: 2018-07-11 17:02:16  
Local clock offset: 0.018 ms  
Remote clock offset: -0.096 ms

```
# Below is generated by plot.py at 2018-07-11 19:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.11 Mbit/s
95th percentile per-packet one-way delay: 170.020 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 118.33 Mbit/s
95th percentile per-packet one-way delay: 165.283 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 122.48 Mbit/s
95th percentile per-packet one-way delay: 179.741 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 106.05 Mbit/s
95th percentile per-packet one-way delay: 163.397 ms
Loss rate: 2.02%
```

Run 6: Report of Copa — Data Link



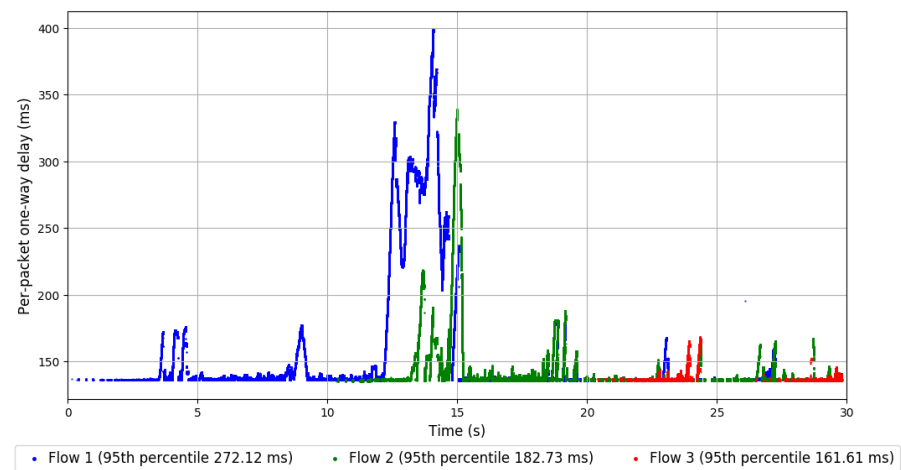
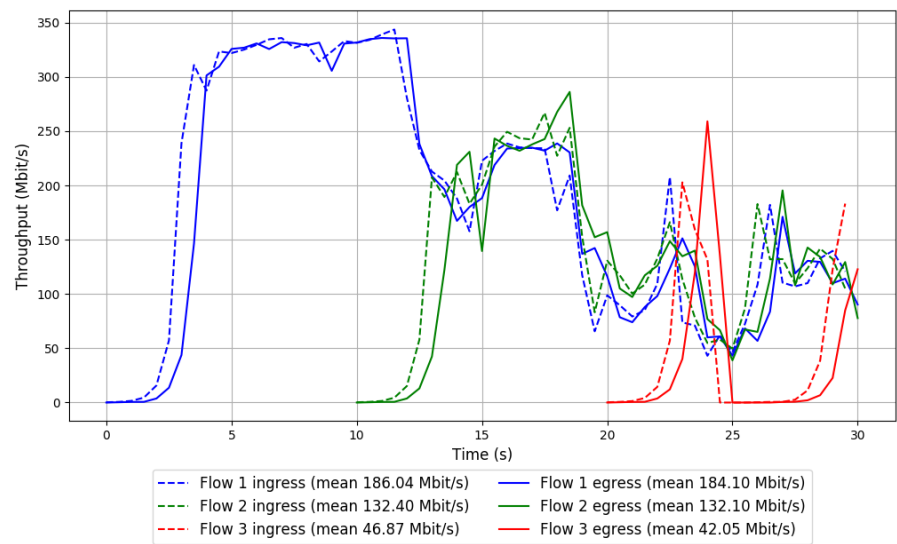
Run 7: Statistics of Copa

Start at: 2018-07-11 17:28:12  
End at: 2018-07-11 17:28:42  
Local clock offset: 0.052 ms  
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-07-11 19:31:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 285.31 Mbit/s  
95th percentile per-packet one-way delay: 242.715 ms  
Loss rate: 2.41%  
-- Flow 1:  
Average throughput: 184.10 Mbit/s  
95th percentile per-packet one-way delay: 272.117 ms  
Loss rate: 1.97%  
-- Flow 2:  
Average throughput: 132.10 Mbit/s  
95th percentile per-packet one-way delay: 182.731 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 42.05 Mbit/s  
95th percentile per-packet one-way delay: 161.614 ms  
Loss rate: 12.82%



Run 7: Report of Copa — Data Link

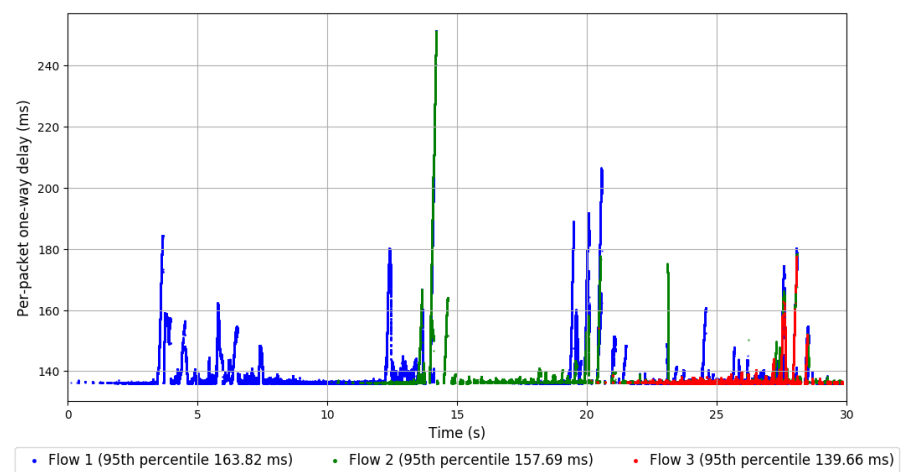
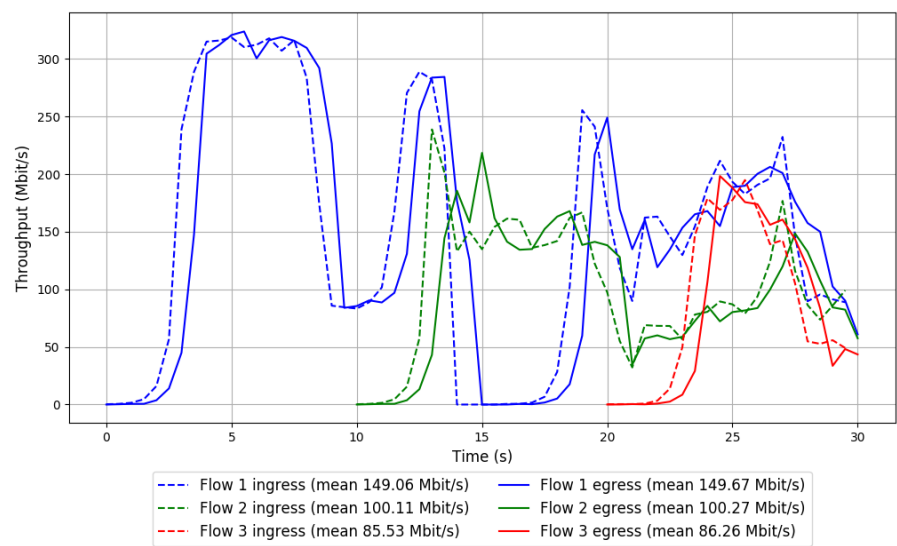


Run 8: Statistics of Copa

Start at: 2018-07-11 17:55:08  
End at: 2018-07-11 17:55:38  
Local clock offset: -0.032 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-07-11 19:31:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 244.20 Mbit/s  
95th percentile per-packet one-way delay: 159.764 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 149.67 Mbit/s  
95th percentile per-packet one-way delay: 163.818 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 100.27 Mbit/s  
95th percentile per-packet one-way delay: 157.685 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 86.26 Mbit/s  
95th percentile per-packet one-way delay: 139.657 ms  
Loss rate: 1.91%

Run 8: Report of Copa — Data Link

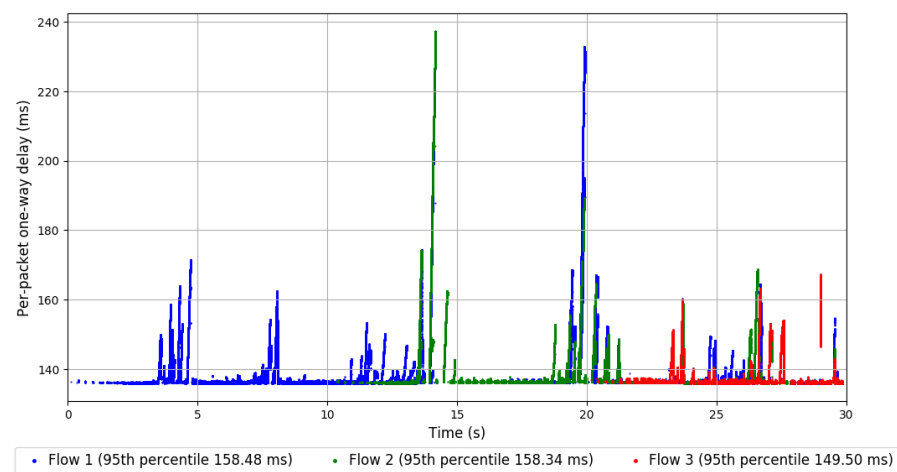
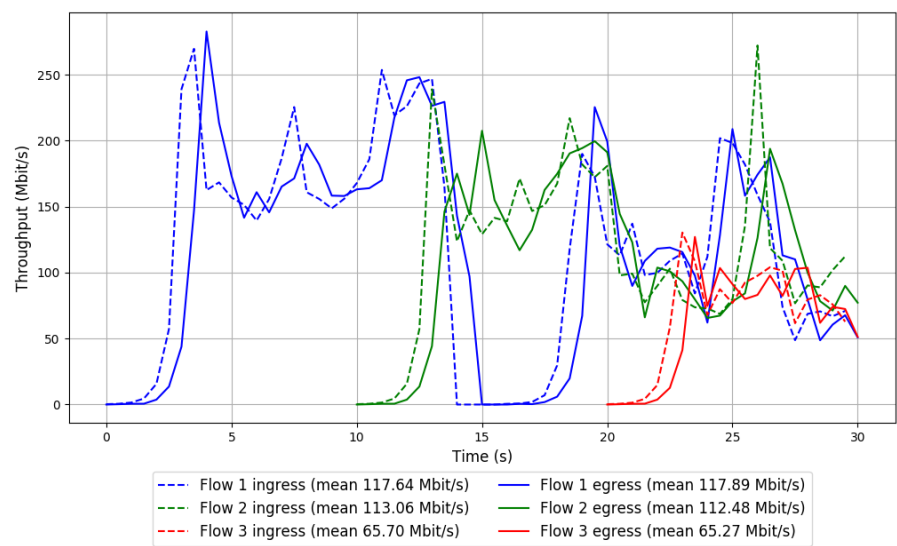


Run 9: Statistics of Copa

Start at: 2018-07-11 18:21:50  
End at: 2018-07-11 18:22:20  
Local clock offset: -0.076 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-07-11 19:34:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 213.78 Mbit/s  
95th percentile per-packet one-way delay: 157.294 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 117.89 Mbit/s  
95th percentile per-packet one-way delay: 158.480 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 112.48 Mbit/s  
95th percentile per-packet one-way delay: 158.337 ms  
Loss rate: 1.88%  
-- Flow 3:  
Average throughput: 65.27 Mbit/s  
95th percentile per-packet one-way delay: 149.503 ms  
Loss rate: 3.39%

Run 9: Report of Copa — Data Link

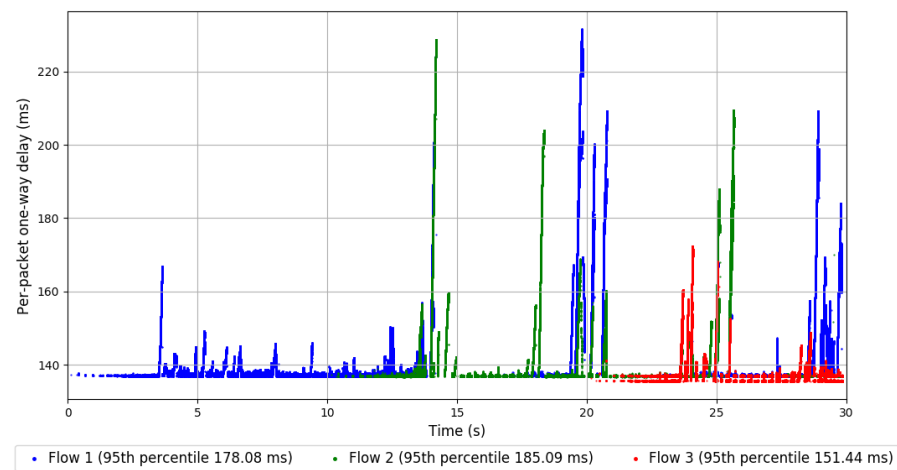
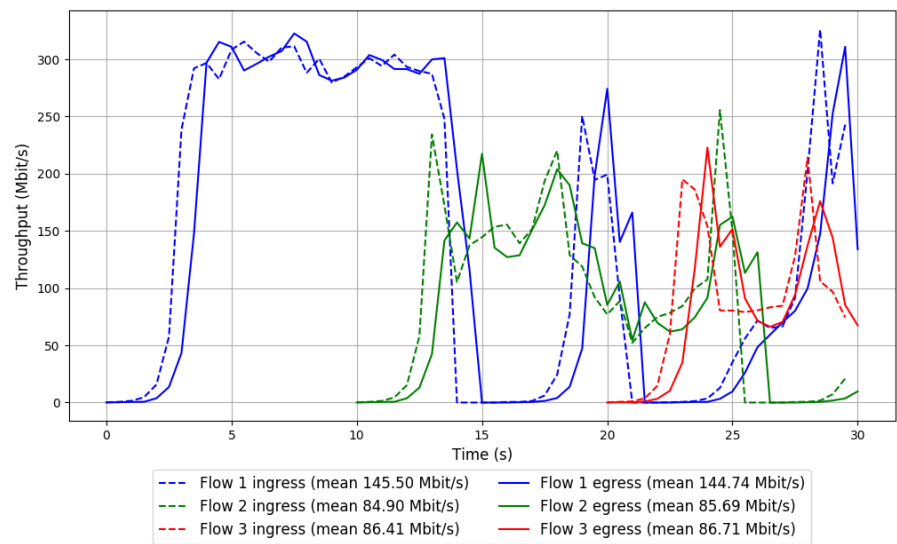


Run 10: Statistics of Copa

Start at: 2018-07-11 18:48:42  
End at: 2018-07-11 18:49:12  
Local clock offset: 0.186 ms  
Remote clock offset: -0.478 ms

# Below is generated by plot.py at 2018-07-11 19:35:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 229.73 Mbit/s  
95th percentile per-packet one-way delay: 176.372 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 144.74 Mbit/s  
95th percentile per-packet one-way delay: 178.079 ms  
Loss rate: 1.43%  
-- Flow 2:  
Average throughput: 85.69 Mbit/s  
95th percentile per-packet one-way delay: 185.094 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 86.71 Mbit/s  
95th percentile per-packet one-way delay: 151.444 ms  
Loss rate: 2.39%

Run 10: Report of Copa — Data Link



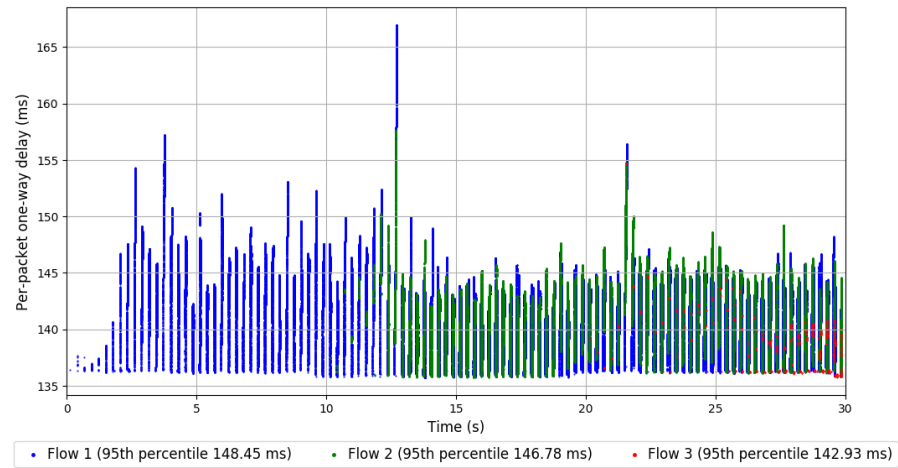
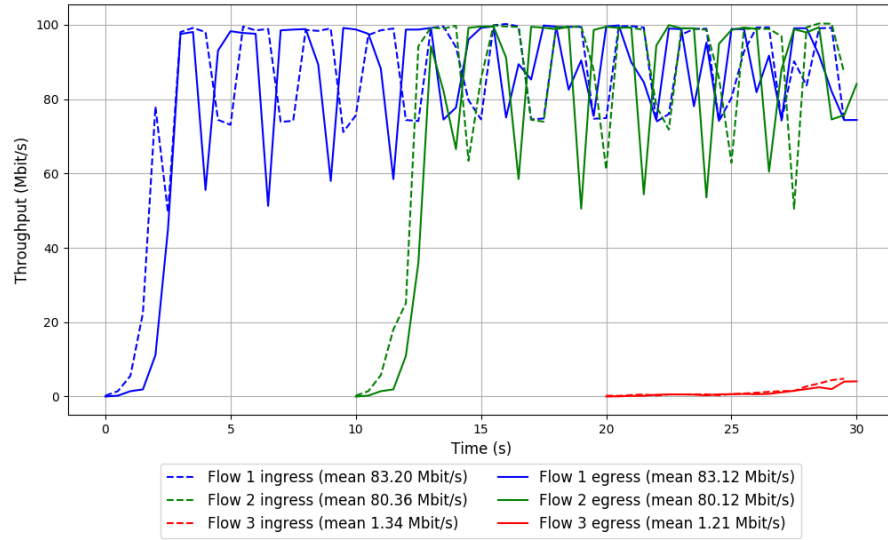
Run 1: Statistics of TCP Cubic

Start at: 2018-07-11 14:44:14  
End at: 2018-07-11 14:44:44  
Local clock offset: -0.082 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-07-11 19:35:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 136.56 Mbit/s  
95th percentile per-packet one-way delay: 147.779 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 83.12 Mbit/s  
95th percentile per-packet one-way delay: 148.450 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 80.12 Mbit/s  
95th percentile per-packet one-way delay: 146.780 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 1.21 Mbit/s  
95th percentile per-packet one-way delay: 142.929 ms  
Loss rate: 11.72%



# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-11 15:11:26

End at: 2018-07-11 15:11:56

Local clock offset: 0.064 ms

Remote clock offset: 0.259 ms

# Below is generated by plot.py at 2018-07-11 19:35:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 137.24 Mbit/s

95th percentile per-packet one-way delay: 148.645 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 83.05 Mbit/s

95th percentile per-packet one-way delay: 150.173 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 81.31 Mbit/s

95th percentile per-packet one-way delay: 145.207 ms

Loss rate: 1.53%

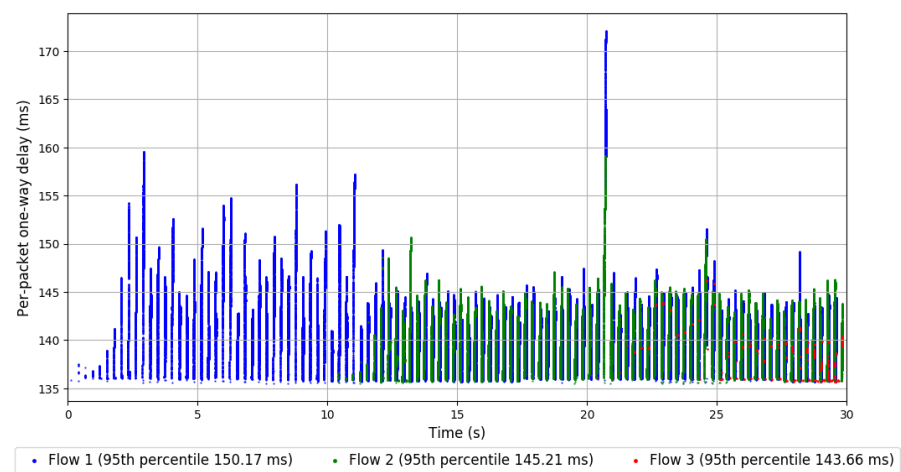
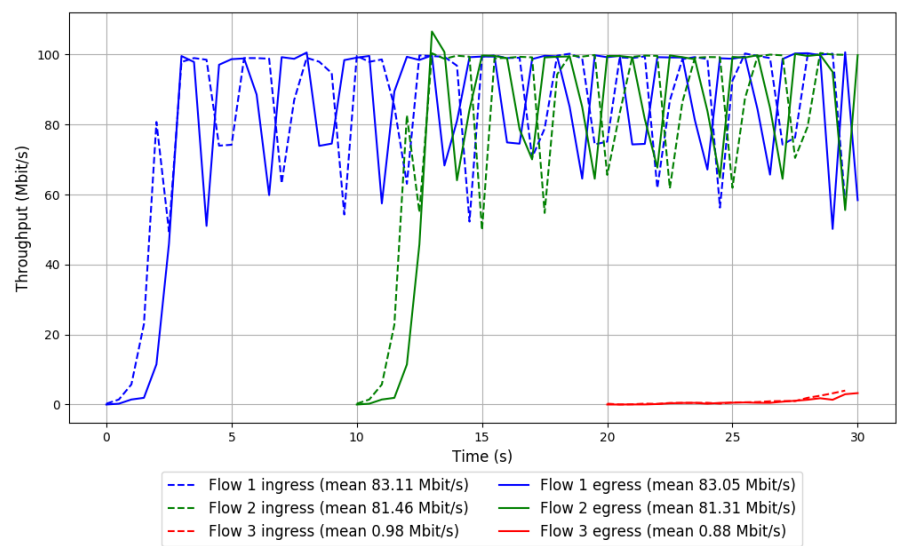
-- Flow 3:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 143.665 ms

Loss rate: 13.04%

Run 2: Report of TCP Cubic — Data Link

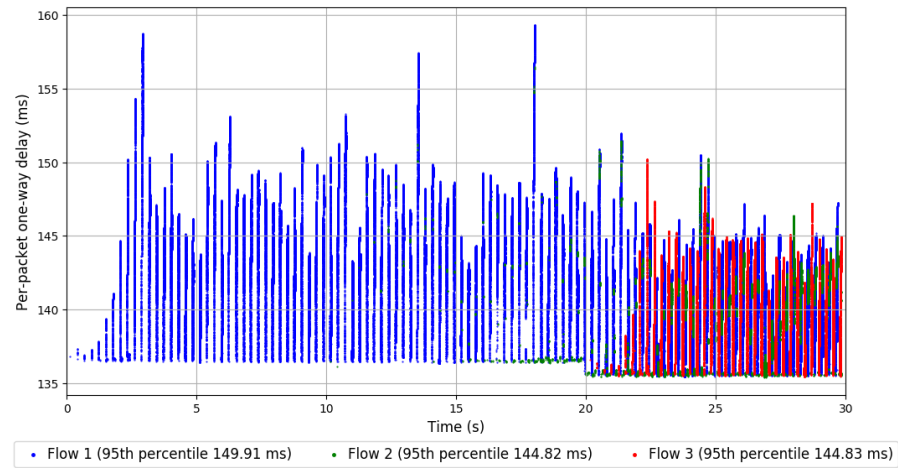
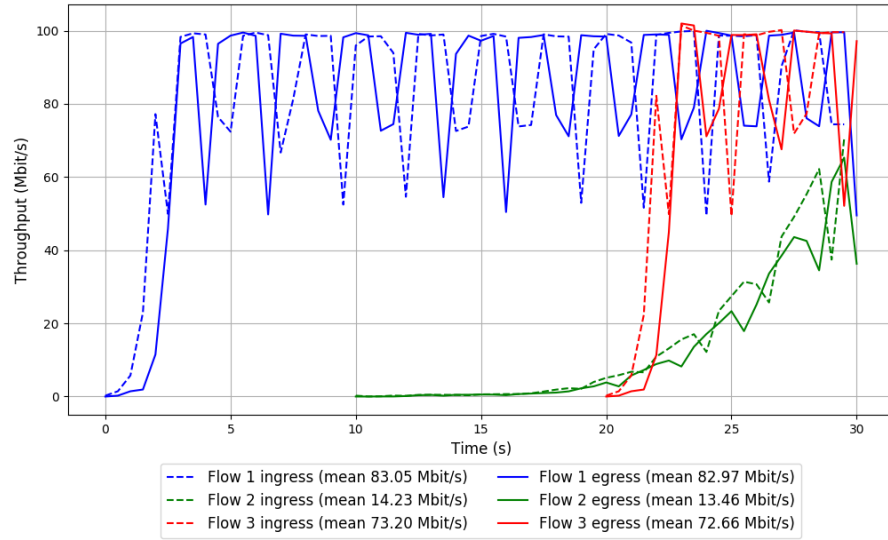


Run 3: Statistics of TCP Cubic

Start at: 2018-07-11 15:38:14  
End at: 2018-07-11 15:38:44  
Local clock offset: 0.046 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-07-11 19:35:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 115.13 Mbit/s  
95th percentile per-packet one-way delay: 149.238 ms  
Loss rate: 1.97%  
-- Flow 1:  
Average throughput: 82.97 Mbit/s  
95th percentile per-packet one-way delay: 149.908 ms  
Loss rate: 1.00%  
-- Flow 2:  
Average throughput: 13.46 Mbit/s  
95th percentile per-packet one-way delay: 144.822 ms  
Loss rate: 6.67%  
-- Flow 3:  
Average throughput: 72.66 Mbit/s  
95th percentile per-packet one-way delay: 144.831 ms  
Loss rate: 3.43%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-07-11 16:04:50

End at: 2018-07-11 16:05:20

Local clock offset: -0.019 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-07-11 19:35:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 153.41 Mbit/s

95th percentile per-packet one-way delay: 147.030 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 147.747 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 81.14 Mbit/s

95th percentile per-packet one-way delay: 144.895 ms

Loss rate: 1.54%

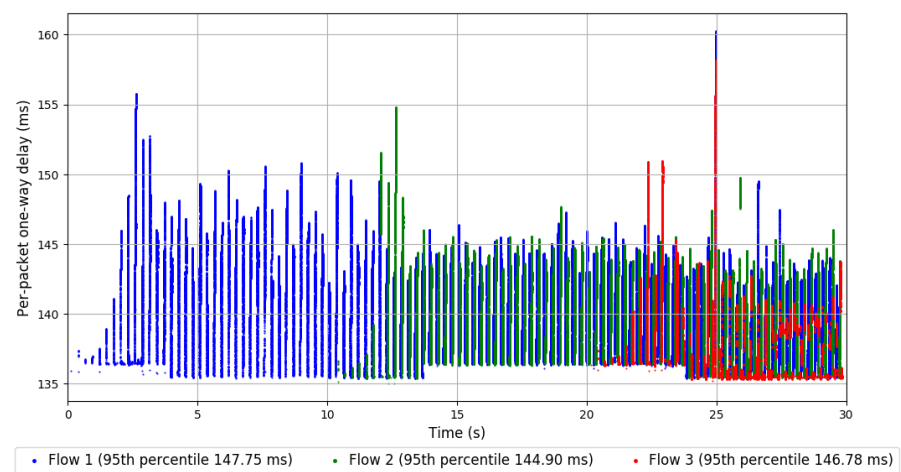
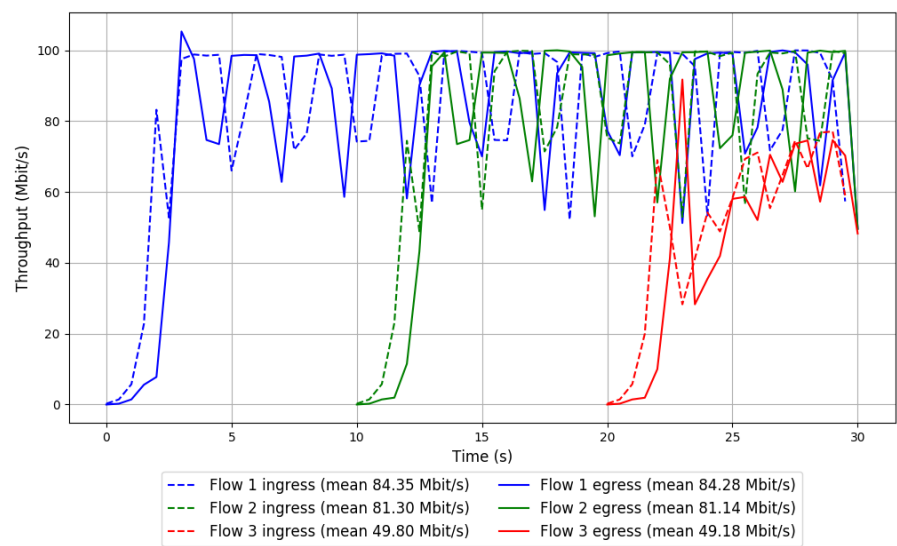
-- Flow 3:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 146.775 ms

Loss rate: 3.95%

Run 4: Report of TCP Cubic — Data Link



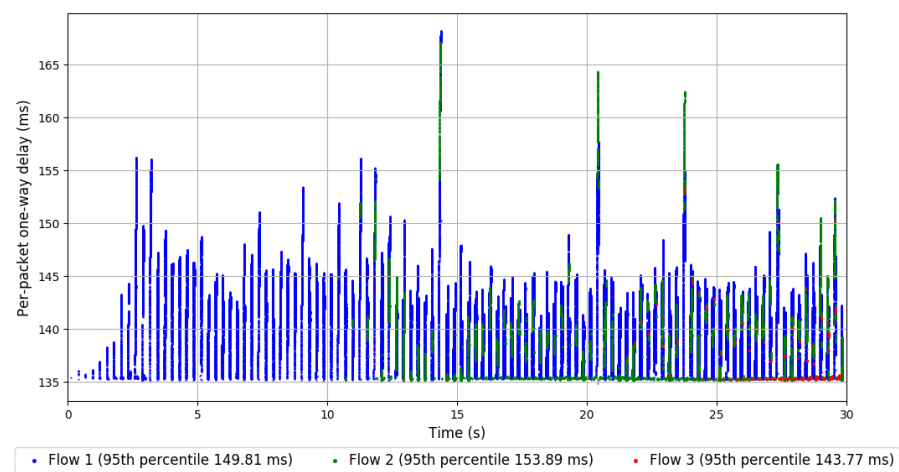
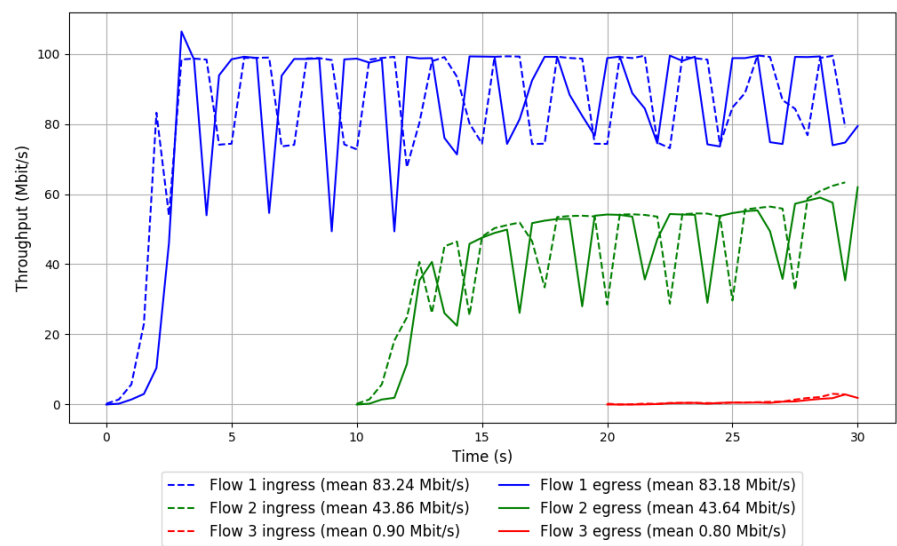
Run 5: Statistics of TCP Cubic

Start at: 2018-07-11 16:31:28  
End at: 2018-07-11 16:31:58  
Local clock offset: -0.222 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-07-11 19:35:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 112.37 Mbit/s  
95th percentile per-packet one-way delay: 150.312 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 83.18 Mbit/s  
95th percentile per-packet one-way delay: 149.811 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 43.64 Mbit/s  
95th percentile per-packet one-way delay: 153.886 ms  
Loss rate: 1.86%  
-- Flow 3:  
Average throughput: 0.80 Mbit/s  
95th percentile per-packet one-way delay: 143.767 ms  
Loss rate: 12.92%



Run 5: Report of TCP Cubic — Data Link

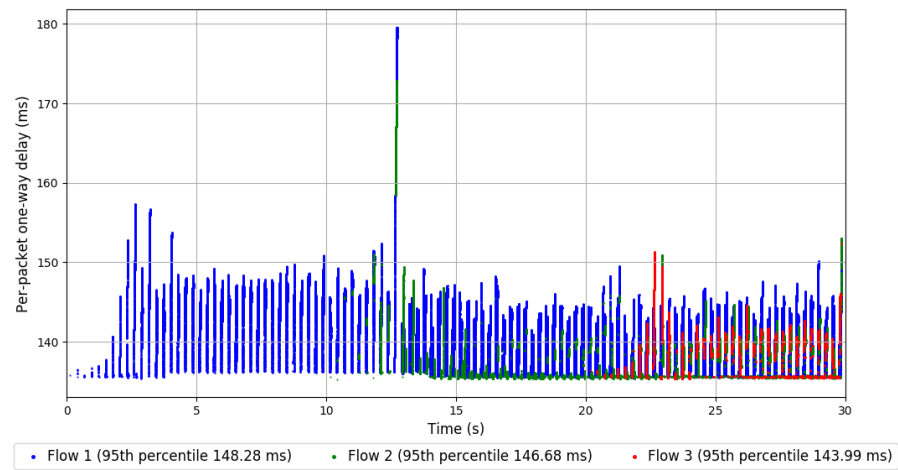
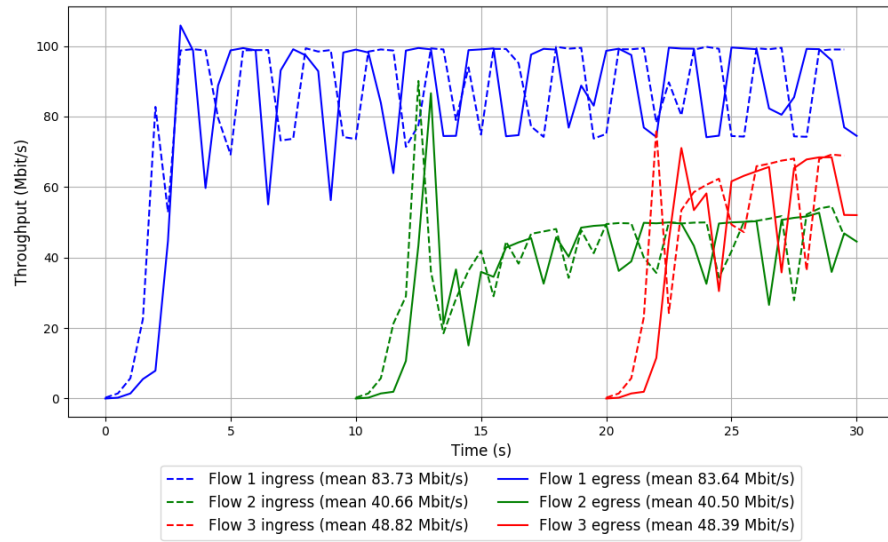


Run 6: Statistics of TCP Cubic

Start at: 2018-07-11 16:58:50  
End at: 2018-07-11 16:59:20  
Local clock offset: -0.041 ms  
Remote clock offset: -0.097 ms

```
# Below is generated by plot.py at 2018-07-11 19:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.27 Mbit/s
95th percentile per-packet one-way delay: 147.940 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 83.64 Mbit/s
95th percentile per-packet one-way delay: 148.284 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 40.50 Mbit/s
95th percentile per-packet one-way delay: 146.682 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 48.39 Mbit/s
95th percentile per-packet one-way delay: 143.994 ms
Loss rate: 3.58%
```

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

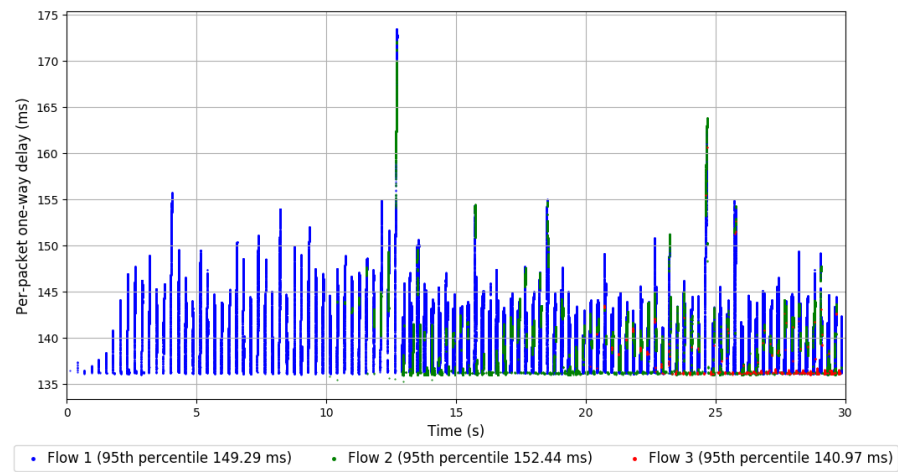
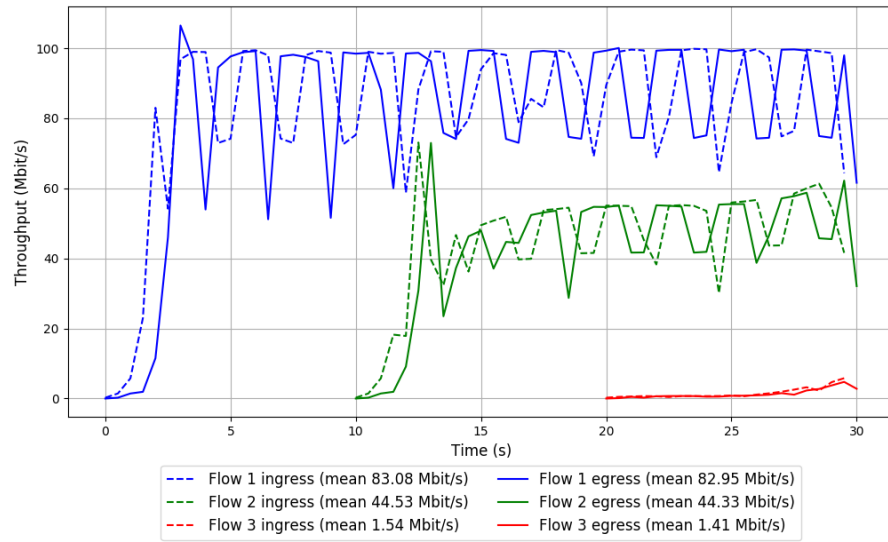


Run 7: Statistics of TCP Cubic

Start at: 2018-07-11 17:25:22  
End at: 2018-07-11 17:25:52  
Local clock offset: -0.149 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-07-11 19:35:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 112.80 Mbit/s  
95th percentile per-packet one-way delay: 149.998 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 82.95 Mbit/s  
95th percentile per-packet one-way delay: 149.287 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 44.33 Mbit/s  
95th percentile per-packet one-way delay: 152.443 ms  
Loss rate: 1.82%  
-- Flow 3:  
Average throughput: 1.41 Mbit/s  
95th percentile per-packet one-way delay: 140.968 ms  
Loss rate: 10.69%

# Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-11 17:52:10

End at: 2018-07-11 17:52:40

Local clock offset: 0.122 ms

Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2018-07-11 19:35:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.16 Mbit/s

95th percentile per-packet one-way delay: 151.015 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 82.98 Mbit/s

95th percentile per-packet one-way delay: 151.661 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 16.55 Mbit/s

95th percentile per-packet one-way delay: 145.551 ms

Loss rate: 6.32%

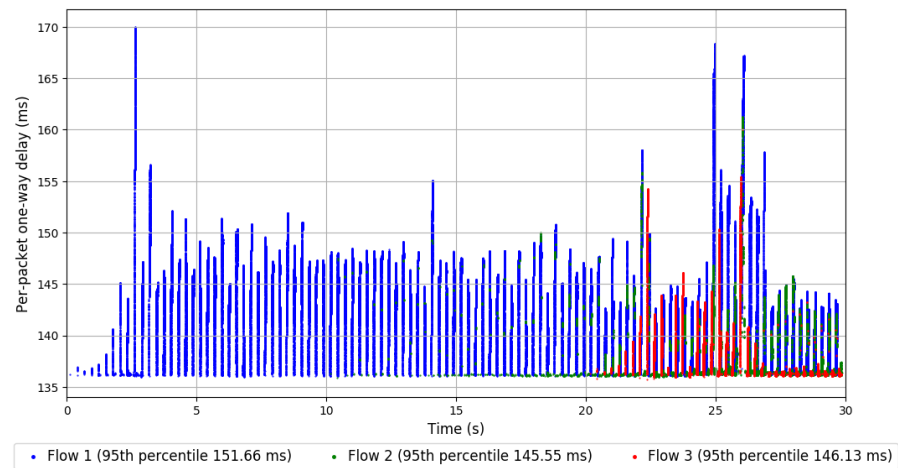
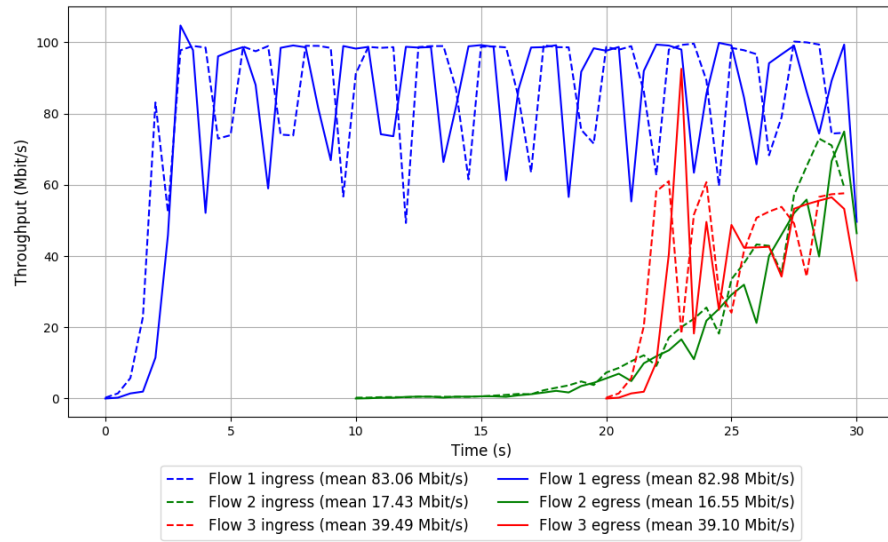
-- Flow 3:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 146.133 ms

Loss rate: 3.69%

# Run 8: Report of TCP Cubic — Data Link



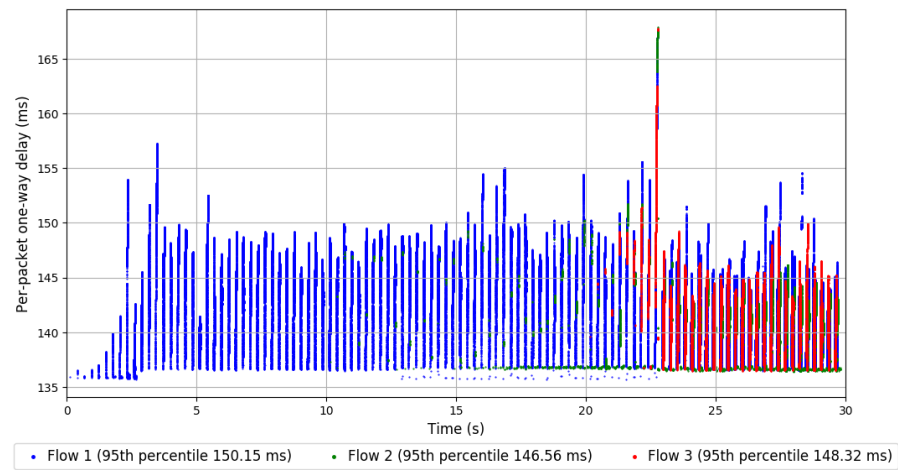
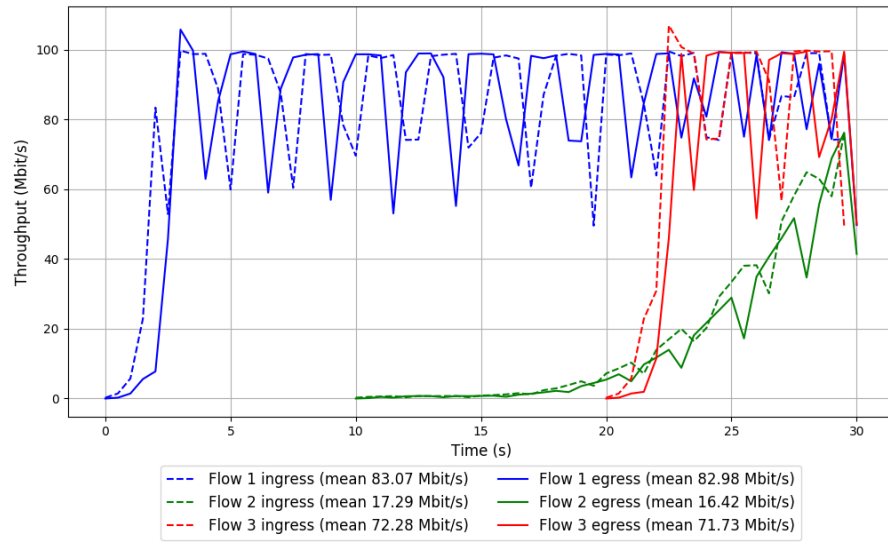
Run 9: Statistics of TCP Cubic

Start at: 2018-07-11 18:18:51  
End at: 2018-07-11 18:19:21  
Local clock offset: -0.108 ms  
Remote clock offset: -0.468 ms

# Below is generated by plot.py at 2018-07-11 19:35:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 116.40 Mbit/s  
95th percentile per-packet one-way delay: 149.747 ms  
Loss rate: 2.02%  
-- Flow 1:  
Average throughput: 82.98 Mbit/s  
95th percentile per-packet one-way delay: 150.152 ms  
Loss rate: 1.00%  
-- Flow 2:  
Average throughput: 16.42 Mbit/s  
95th percentile per-packet one-way delay: 146.560 ms  
Loss rate: 6.32%  
-- Flow 3:  
Average throughput: 71.73 Mbit/s  
95th percentile per-packet one-way delay: 148.319 ms  
Loss rate: 3.52%



# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-11 18:45:47

End at: 2018-07-11 18:46:17

Local clock offset: -0.145 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-07-11 19:35:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 128.68 Mbit/s

95th percentile per-packet one-way delay: 149.222 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 83.29 Mbit/s

95th percentile per-packet one-way delay: 149.514 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 48.43 Mbit/s

95th percentile per-packet one-way delay: 149.016 ms

Loss rate: 1.79%

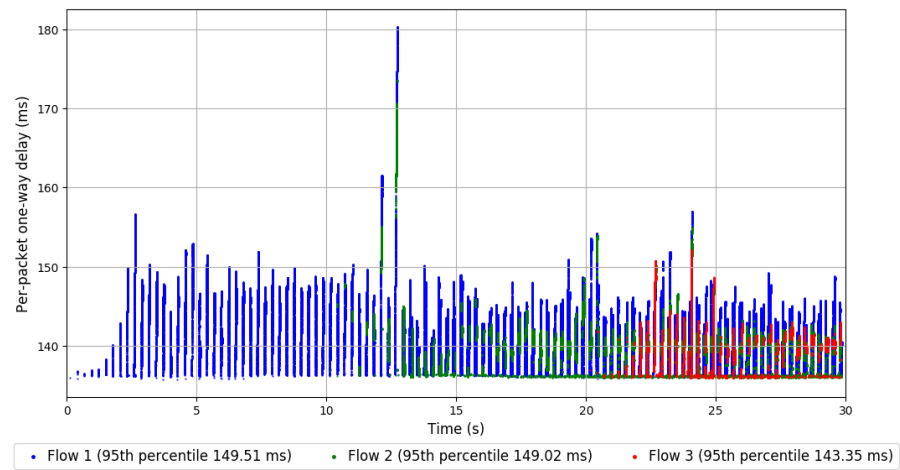
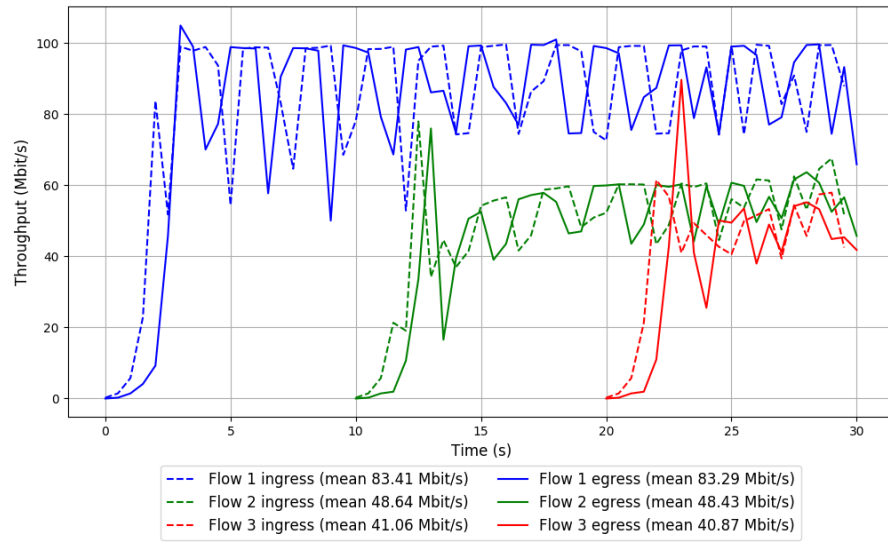
-- Flow 3:

Average throughput: 40.87 Mbit/s

95th percentile per-packet one-way delay: 143.353 ms

Loss rate: 3.60%

# Run 10: Report of TCP Cubic — Data Link

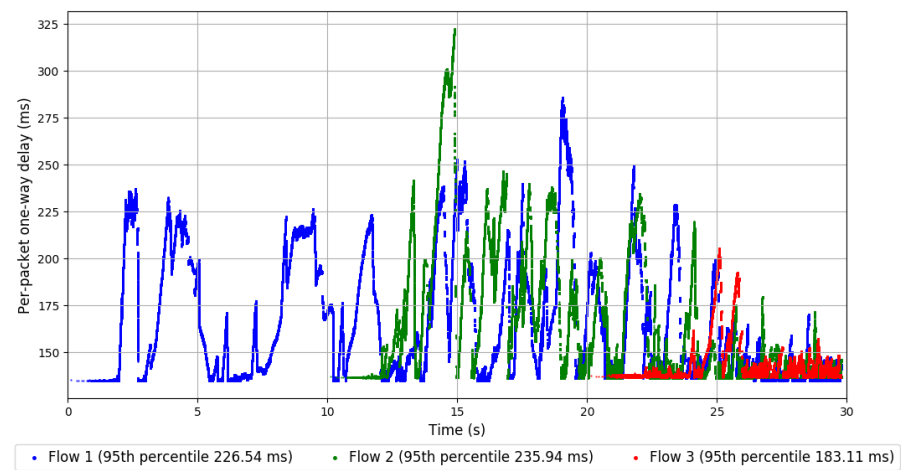
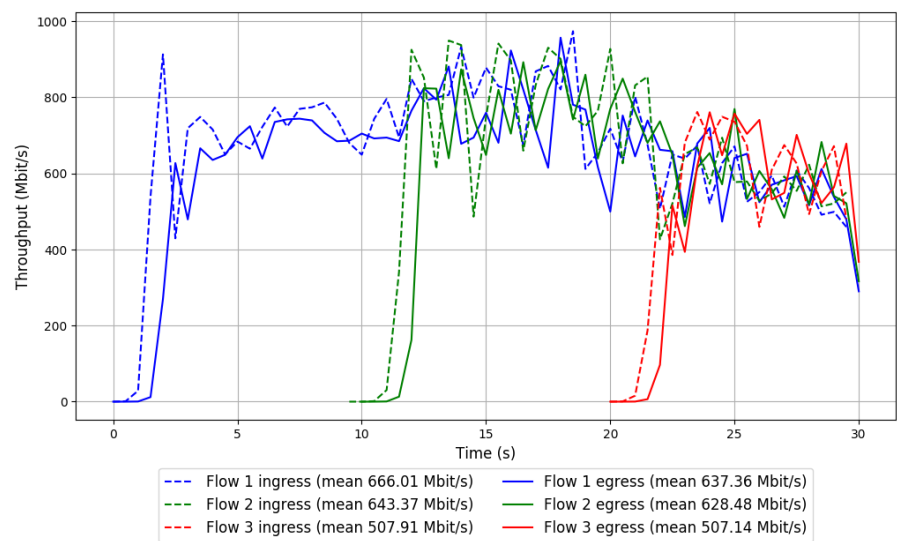


Run 1: Statistics of FillP

Start at: 2018-07-11 14:48:57  
End at: 2018-07-11 14:49:27  
Local clock offset: 0.154 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-07-11 19:57:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1218.53 Mbit/s  
95th percentile per-packet one-way delay: 229.394 ms  
Loss rate: 4.38%  
-- Flow 1:  
Average throughput: 637.36 Mbit/s  
95th percentile per-packet one-way delay: 226.543 ms  
Loss rate: 5.17%  
-- Flow 2:  
Average throughput: 628.48 Mbit/s  
95th percentile per-packet one-way delay: 235.943 ms  
Loss rate: 3.66%  
-- Flow 3:  
Average throughput: 507.14 Mbit/s  
95th percentile per-packet one-way delay: 183.110 ms  
Loss rate: 3.05%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-11 15:16:06

End at: 2018-07-11 15:16:36

Local clock offset: -0.01 ms

Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2018-07-11 19:59:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1281.34 Mbit/s

95th percentile per-packet one-way delay: 257.316 ms

Loss rate: 3.53%

-- Flow 1:

Average throughput: 718.61 Mbit/s

95th percentile per-packet one-way delay: 256.208 ms

Loss rate: 2.26%

-- Flow 2:

Average throughput: 629.95 Mbit/s

95th percentile per-packet one-way delay: 306.926 ms

Loss rate: 4.21%

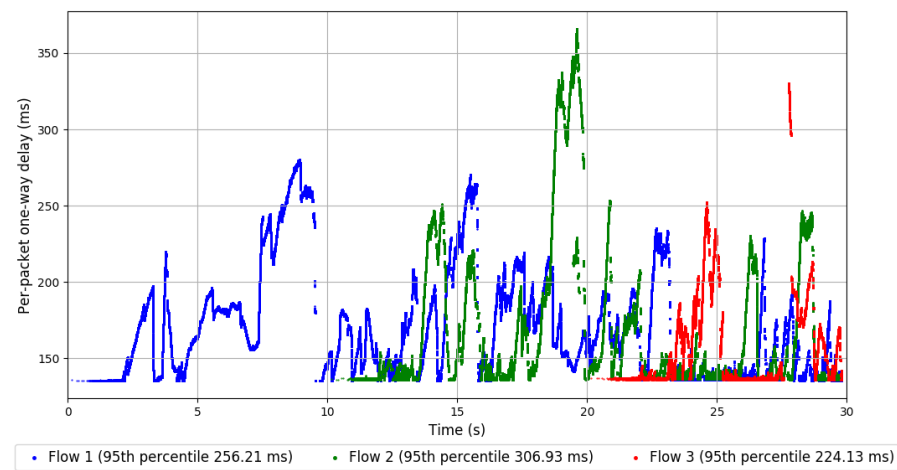
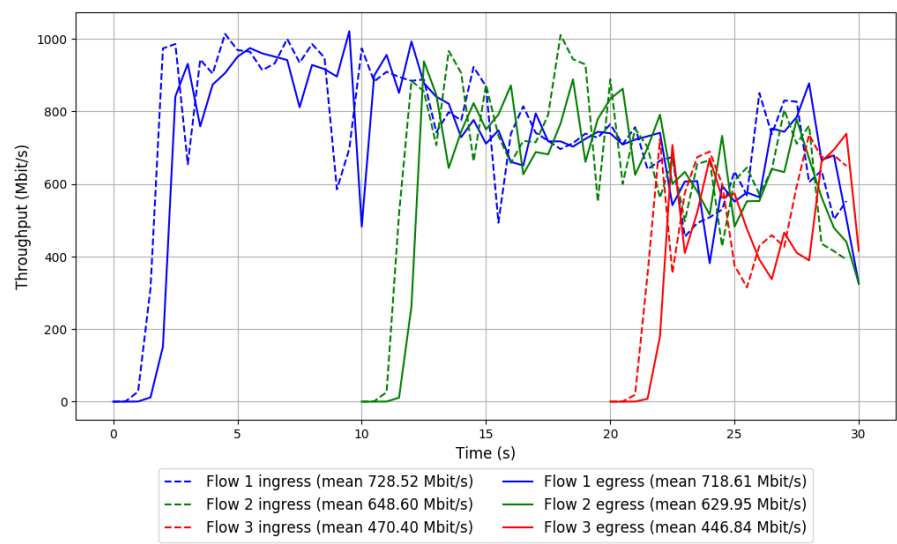
-- Flow 3:

Average throughput: 446.84 Mbit/s

95th percentile per-packet one-way delay: 224.132 ms

Loss rate: 7.62%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-11 15:42:53

End at: 2018-07-11 15:43:23

Local clock offset: -0.143 ms

Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2018-07-11 19:59:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1189.50 Mbit/s

95th percentile per-packet one-way delay: 240.342 ms

Loss rate: 5.16%

-- Flow 1:

Average throughput: 637.93 Mbit/s

95th percentile per-packet one-way delay: 239.325 ms

Loss rate: 5.53%

-- Flow 2:

Average throughput: 581.17 Mbit/s

95th percentile per-packet one-way delay: 245.905 ms

Loss rate: 5.07%

-- Flow 3:

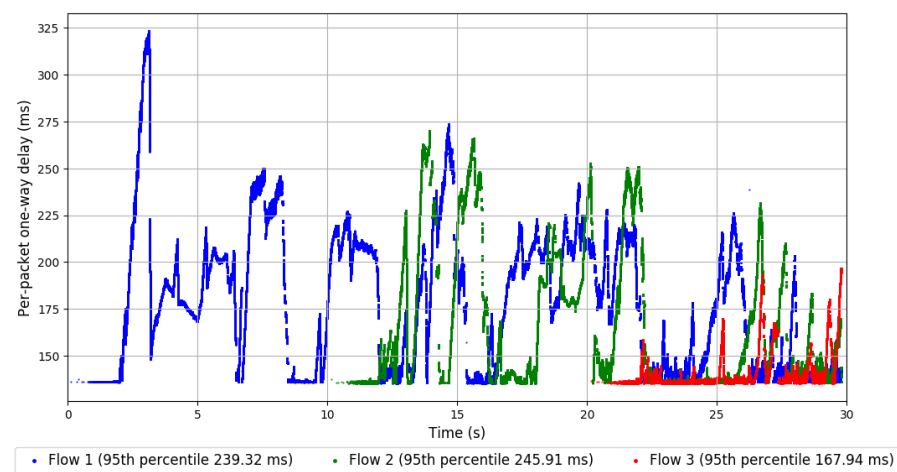
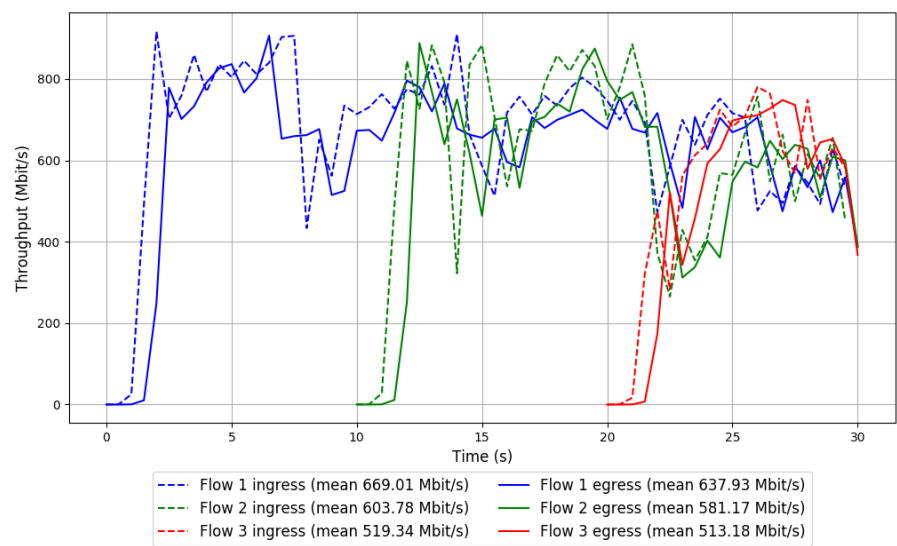
Average throughput: 513.18 Mbit/s

95th percentile per-packet one-way delay: 167.943 ms

Loss rate: 3.92%



Run 3: Report of FillP — Data Link

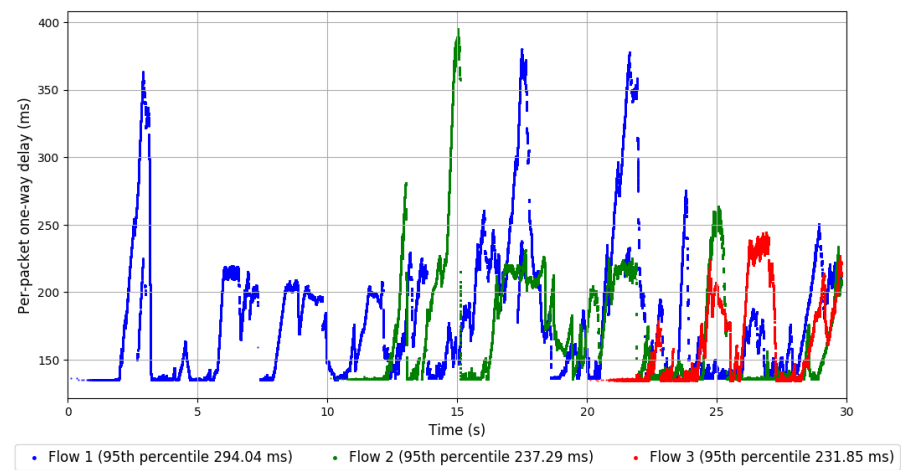
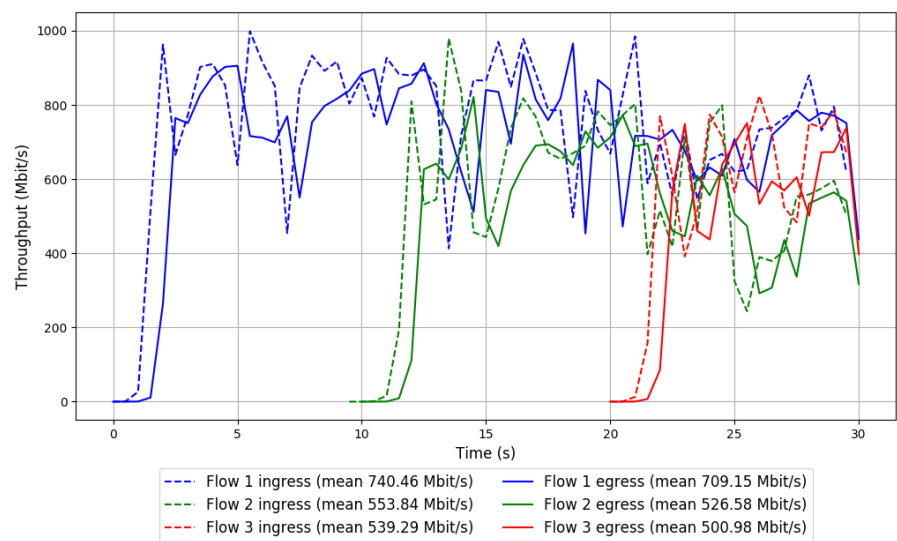


Run 4: Statistics of FillP

Start at: 2018-07-11 16:09:23  
End at: 2018-07-11 16:09:53  
Local clock offset: -0.01 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-07-11 19:59:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1221.40 Mbit/s  
95th percentile per-packet one-way delay: 257.859 ms  
Loss rate: 6.06%  
-- Flow 1:  
Average throughput: 709.15 Mbit/s  
95th percentile per-packet one-way delay: 294.038 ms  
Loss rate: 5.11%  
-- Flow 2:  
Average throughput: 526.58 Mbit/s  
95th percentile per-packet one-way delay: 237.288 ms  
Loss rate: 6.24%  
-- Flow 3:  
Average throughput: 500.98 Mbit/s  
95th percentile per-packet one-way delay: 231.849 ms  
Loss rate: 9.67%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-11 16:36:06

End at: 2018-07-11 16:36:36

Local clock offset: -0.005 ms

Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2018-07-11 19:59:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1135.57 Mbit/s

95th percentile per-packet one-way delay: 289.350 ms

Loss rate: 7.22%

-- Flow 1:

Average throughput: 629.60 Mbit/s

95th percentile per-packet one-way delay: 298.594 ms

Loss rate: 7.11%

-- Flow 2:

Average throughput: 582.74 Mbit/s

95th percentile per-packet one-way delay: 233.370 ms

Loss rate: 7.63%

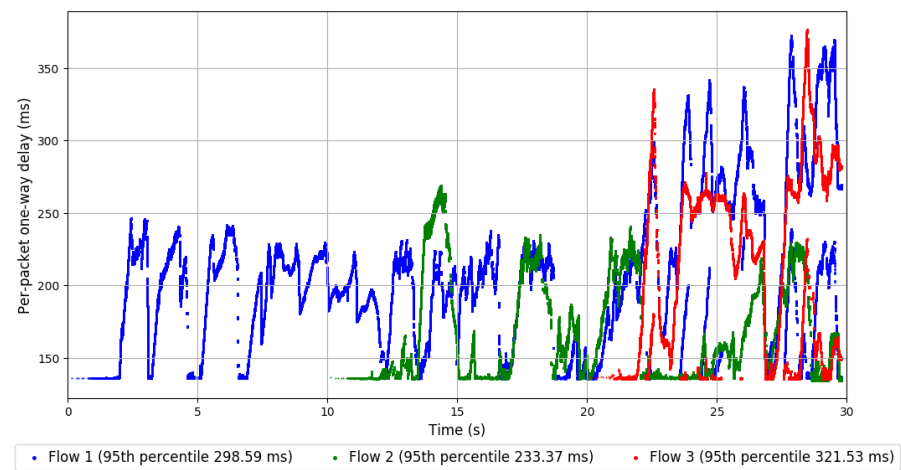
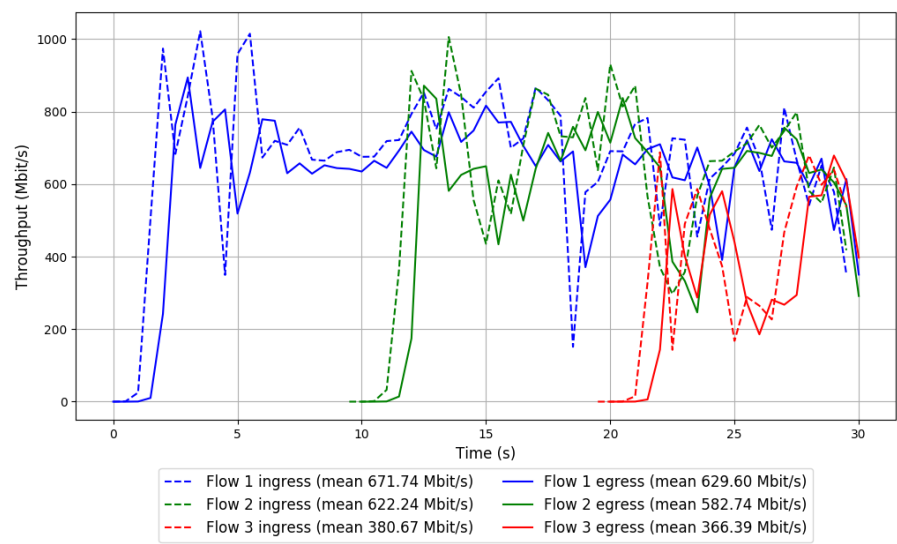
-- Flow 3:

Average throughput: 366.39 Mbit/s

95th percentile per-packet one-way delay: 321.532 ms

Loss rate: 6.40%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-11 17:03:27

End at: 2018-07-11 17:03:57

Local clock offset: -0.204 ms

Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2018-07-11 19:59:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1069.79 Mbit/s

95th percentile per-packet one-way delay: 285.931 ms

Loss rate: 7.89%

-- Flow 1:

Average throughput: 588.56 Mbit/s

95th percentile per-packet one-way delay: 248.853 ms

Loss rate: 8.68%

-- Flow 2:

Average throughput: 483.10 Mbit/s

95th percentile per-packet one-way delay: 291.064 ms

Loss rate: 6.44%

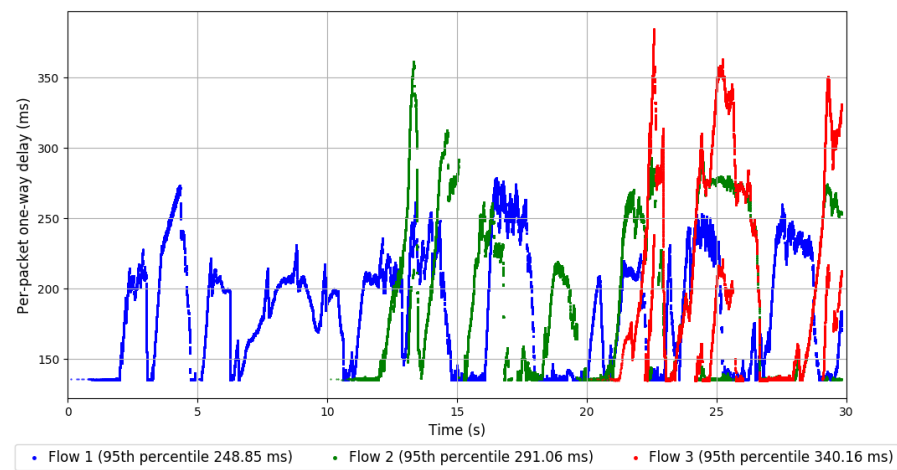
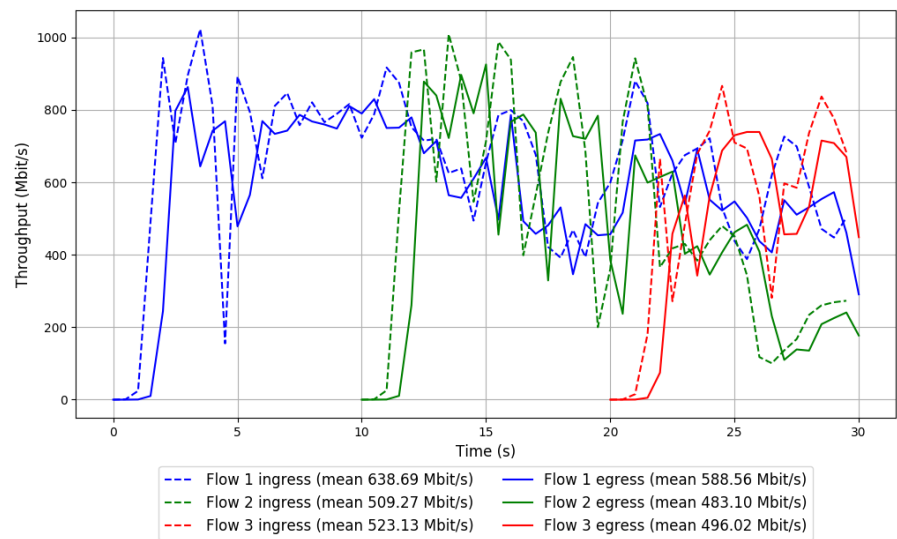
-- Flow 3:

Average throughput: 496.02 Mbit/s

95th percentile per-packet one-way delay: 340.161 ms

Loss rate: 7.80%

Run 6: Report of FillP — Data Link



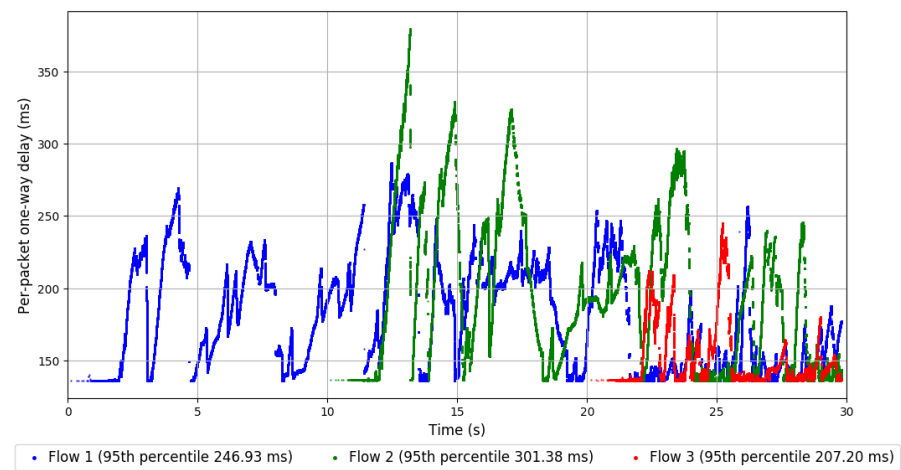
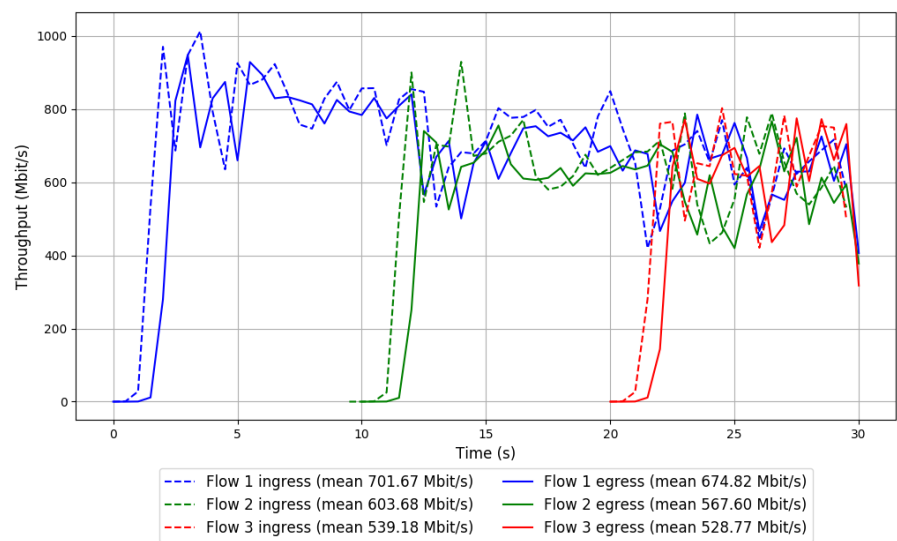
Run 7: Statistics of FillP

Start at: 2018-07-11 17:29:58  
End at: 2018-07-11 17:30:28  
Local clock offset: -0.06 ms  
Remote clock offset: -0.092 ms

```
# Below is generated by plot.py at 2018-07-11 20:00:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1223.33 Mbit/s
95th percentile per-packet one-way delay: 266.559 ms
Loss rate: 5.50%
-- Flow 1:
Average throughput: 674.82 Mbit/s
95th percentile per-packet one-way delay: 246.930 ms
Loss rate: 4.71%
-- Flow 2:
Average throughput: 567.60 Mbit/s
95th percentile per-packet one-way delay: 301.379 ms
Loss rate: 7.27%
-- Flow 3:
Average throughput: 528.77 Mbit/s
95th percentile per-packet one-way delay: 207.202 ms
Loss rate: 4.64%
```



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-11 17:56:50

End at: 2018-07-11 17:57:20

Local clock offset: -0.099 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-07-11 20:00:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1118.60 Mbit/s

95th percentile per-packet one-way delay: 291.210 ms

Loss rate: 7.55%

-- Flow 1:

Average throughput: 626.46 Mbit/s

95th percentile per-packet one-way delay: 236.932 ms

Loss rate: 7.32%

-- Flow 2:

Average throughput: 521.62 Mbit/s

95th percentile per-packet one-way delay: 293.002 ms

Loss rate: 8.14%

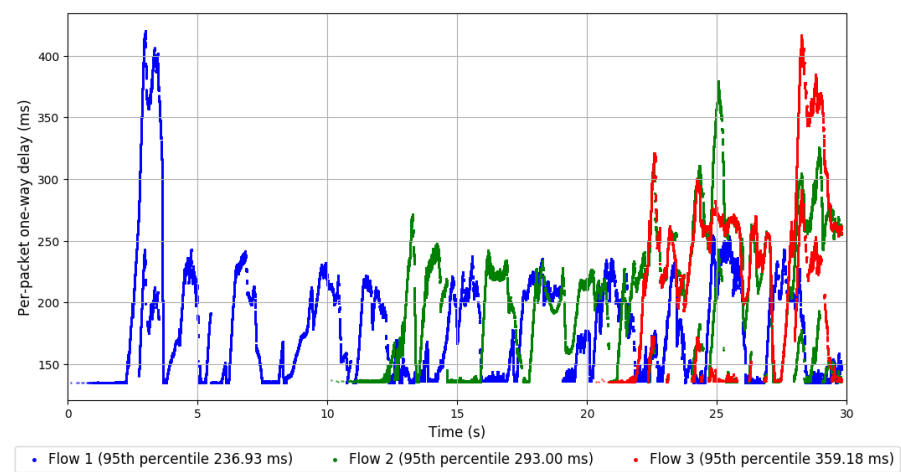
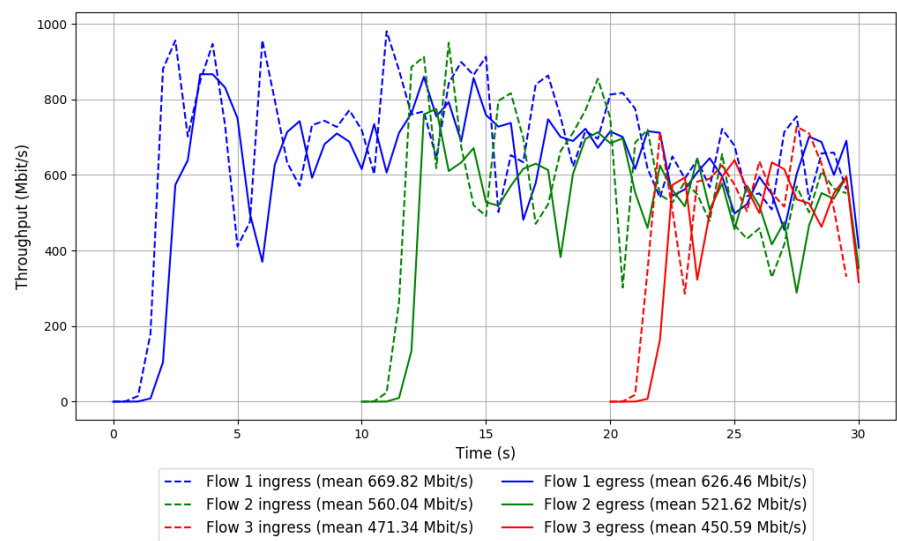
-- Flow 3:

Average throughput: 450.59 Mbit/s

95th percentile per-packet one-way delay: 359.175 ms

Loss rate: 7.13%

Run 8: Report of FillP — Data Link

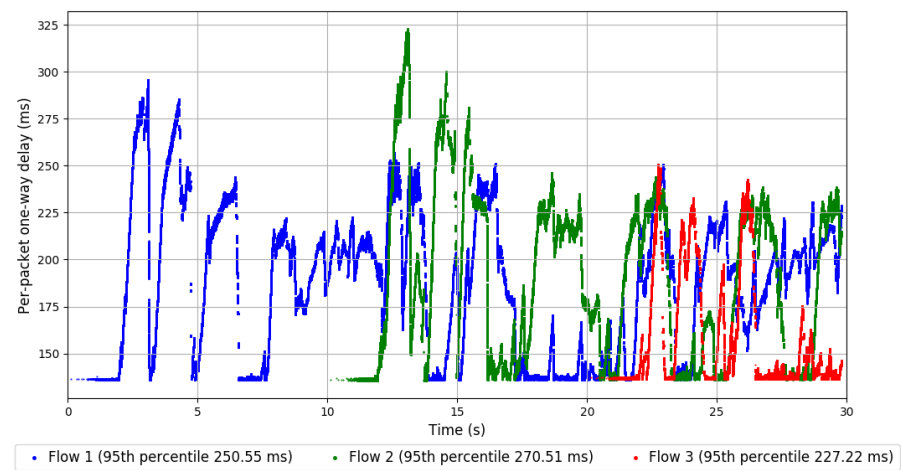
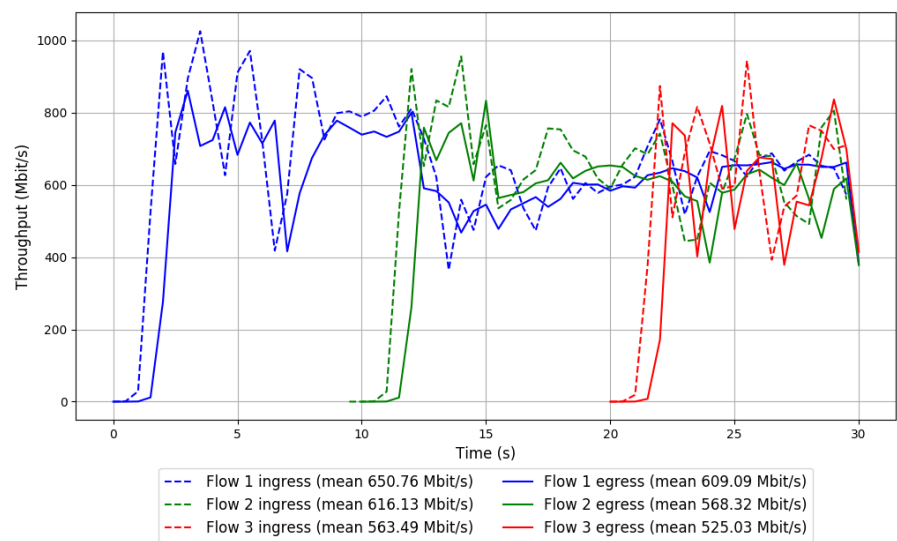


Run 9: Statistics of FillP

Start at: 2018-07-11 18:23:29  
End at: 2018-07-11 18:23:59  
Local clock offset: -0.179 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-07-11 20:22:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1156.73 Mbit/s  
95th percentile per-packet one-way delay: 258.063 ms  
Loss rate: 8.15%  
-- Flow 1:  
Average throughput: 609.09 Mbit/s  
95th percentile per-packet one-way delay: 250.548 ms  
Loss rate: 7.26%  
-- Flow 2:  
Average throughput: 568.32 Mbit/s  
95th percentile per-packet one-way delay: 270.506 ms  
Loss rate: 9.00%  
-- Flow 3:  
Average throughput: 525.03 Mbit/s  
95th percentile per-packet one-way delay: 227.215 ms  
Loss rate: 9.41%

Run 9: Report of FillP — Data Link

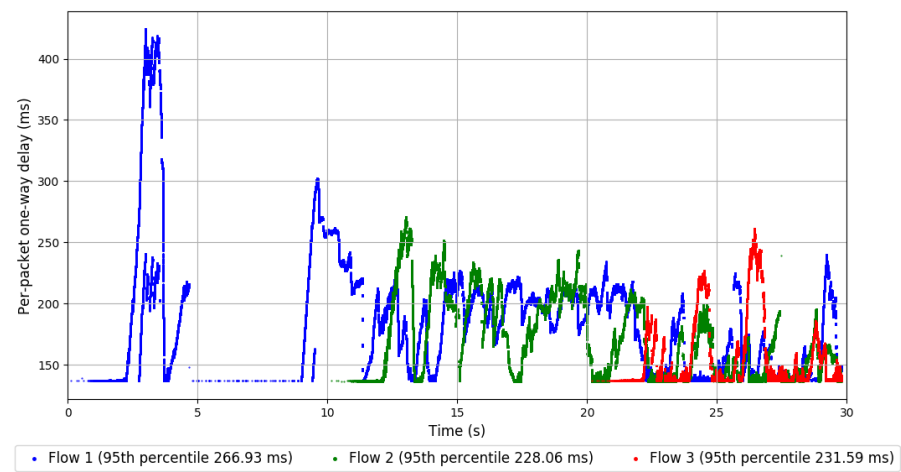
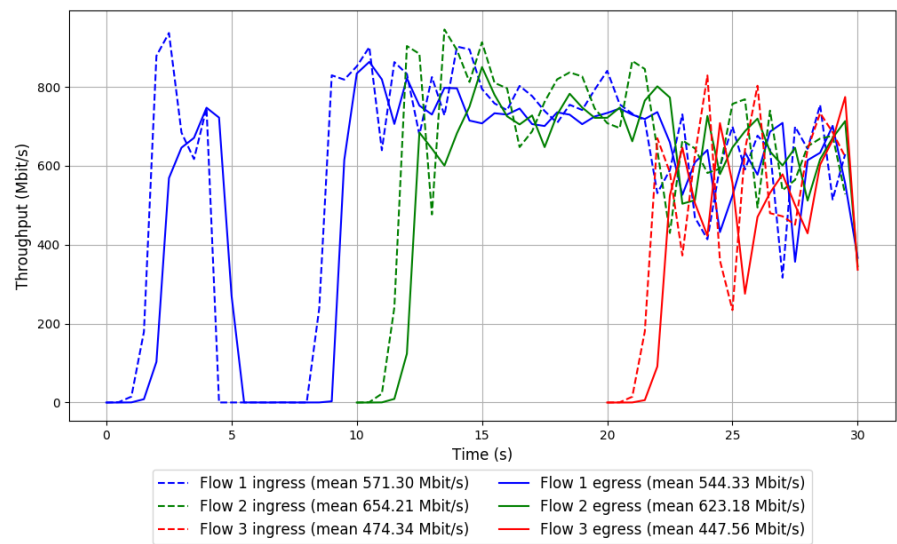


Run 10: Statistics of FillP

Start at: 2018-07-11 18:50:22  
End at: 2018-07-11 18:50:52  
Local clock offset: 0.048 ms  
Remote clock offset: -0.444 ms

# Below is generated by plot.py at 2018-07-11 20:22:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1102.55 Mbit/s  
95th percentile per-packet one-way delay: 249.883 ms  
Loss rate: 6.12%  
-- Flow 1:  
Average throughput: 544.33 Mbit/s  
95th percentile per-packet one-way delay: 266.929 ms  
Loss rate: 5.59%  
-- Flow 2:  
Average throughput: 623.18 Mbit/s  
95th percentile per-packet one-way delay: 228.060 ms  
Loss rate: 6.05%  
-- Flow 3:  
Average throughput: 447.56 Mbit/s  
95th percentile per-packet one-way delay: 231.590 ms  
Loss rate: 8.25%

Run 10: Report of FillP — Data Link



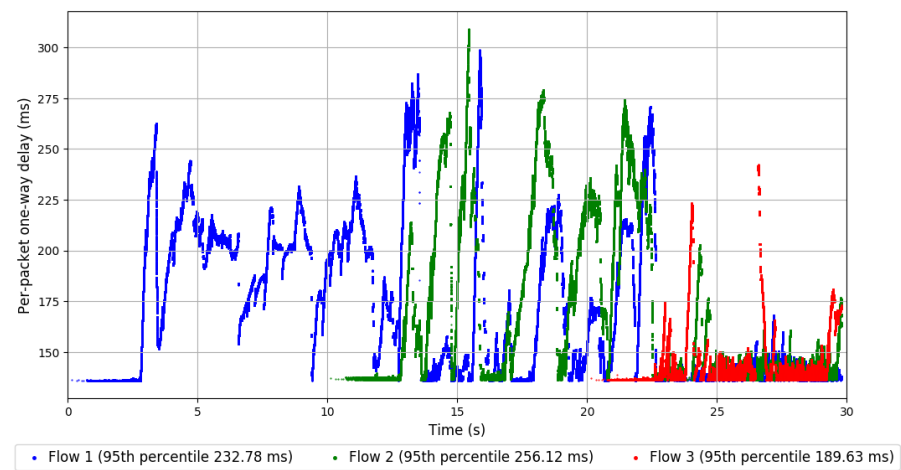
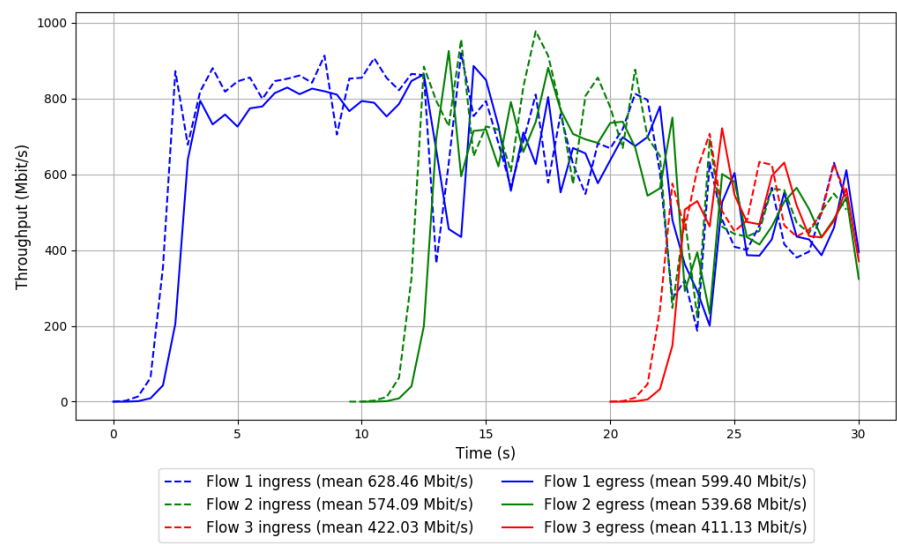
Run 1: Statistics of FillP-Sheep

Start at: 2018-07-11 14:53:51  
End at: 2018-07-11 14:54:21  
Local clock offset: 0.047 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-07-11 20:22:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1090.87 Mbit/s  
95th percentile per-packet one-way delay: 243.871 ms  
Loss rate: 6.06%  
-- Flow 1:  
Average throughput: 599.40 Mbit/s  
95th percentile per-packet one-way delay: 232.780 ms  
Loss rate: 5.49%  
-- Flow 2:  
Average throughput: 539.68 Mbit/s  
95th percentile per-packet one-way delay: 256.124 ms  
Loss rate: 7.28%  
-- Flow 3:  
Average throughput: 411.13 Mbit/s  
95th percentile per-packet one-way delay: 189.629 ms  
Loss rate: 5.26%



Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-11 15:20:59

End at: 2018-07-11 15:21:29

Local clock offset: -0.047 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-07-11 20:22:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1075.42 Mbit/s

95th percentile per-packet one-way delay: 267.616 ms

Loss rate: 7.05%

-- Flow 1:

Average throughput: 607.79 Mbit/s

95th percentile per-packet one-way delay: 277.172 ms

Loss rate: 6.28%

-- Flow 2:

Average throughput: 503.04 Mbit/s

95th percentile per-packet one-way delay: 255.766 ms

Loss rate: 8.62%

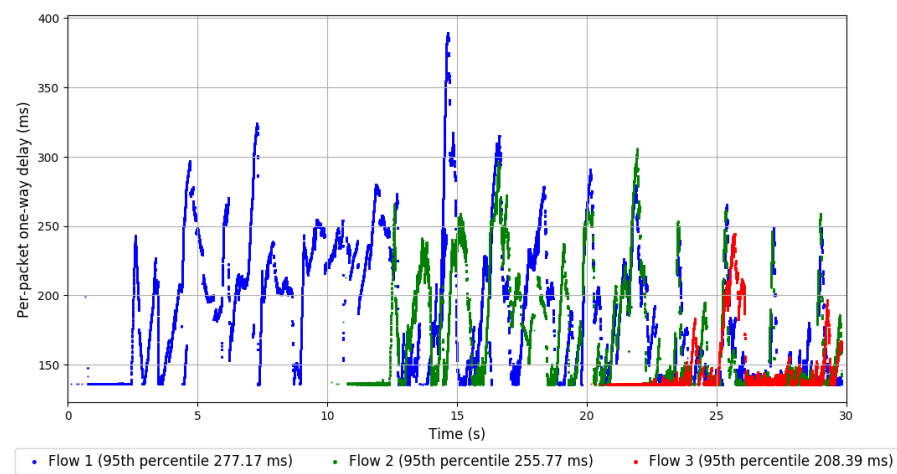
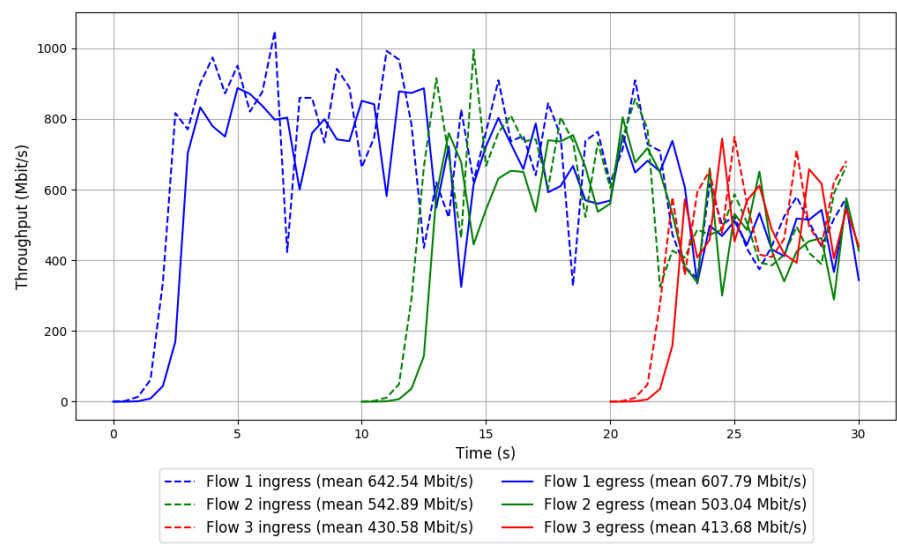
-- Flow 3:

Average throughput: 413.68 Mbit/s

95th percentile per-packet one-way delay: 208.394 ms

Loss rate: 6.58%

Run 2: Report of FillP-Sheep — Data Link

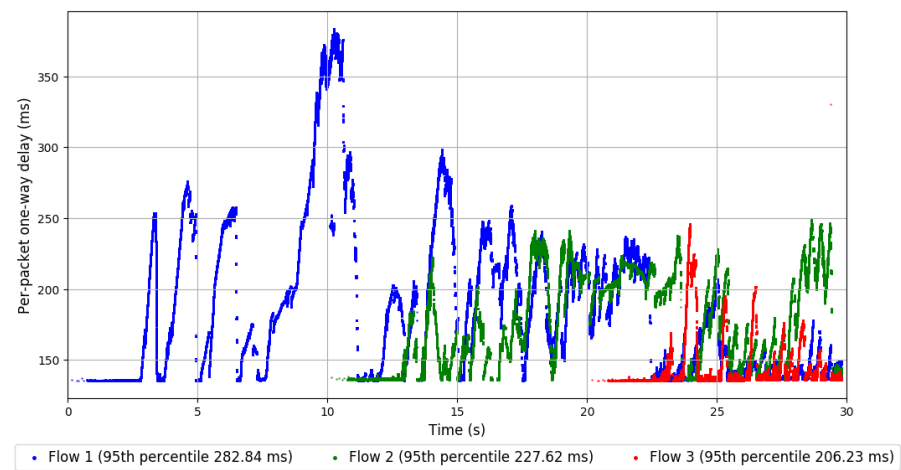
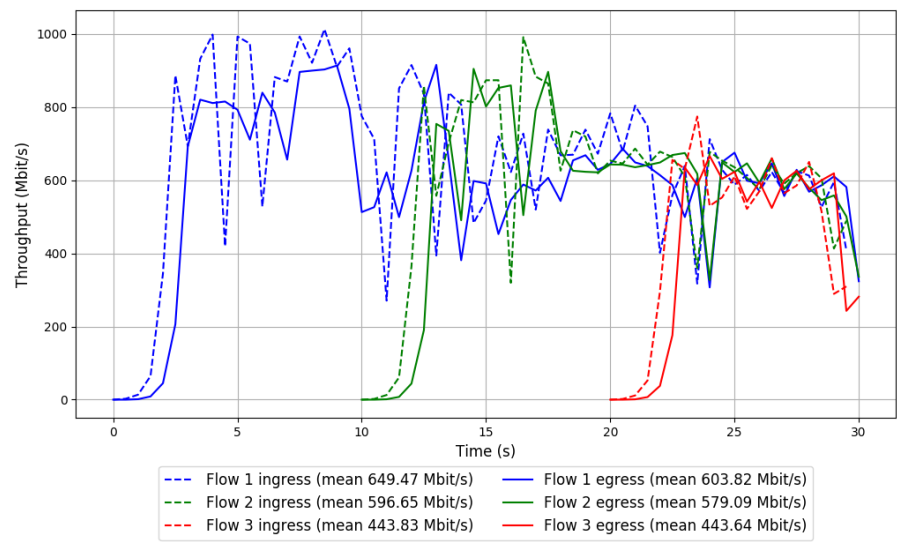


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-11 15:47:48  
End at: 2018-07-11 15:48:18  
Local clock offset: -0.072 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-07-11 20:22:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1131.20 Mbit/s  
95th percentile per-packet one-way delay: 257.840 ms  
Loss rate: 6.05%  
-- Flow 1:  
Average throughput: 603.82 Mbit/s  
95th percentile per-packet one-way delay: 282.843 ms  
Loss rate: 7.88%  
-- Flow 2:  
Average throughput: 579.09 Mbit/s  
95th percentile per-packet one-way delay: 227.623 ms  
Loss rate: 4.27%  
-- Flow 3:  
Average throughput: 443.64 Mbit/s  
95th percentile per-packet one-way delay: 206.226 ms  
Loss rate: 2.73%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-11 16:14:19

End at: 2018-07-11 16:14:49

Local clock offset: 0.083 ms

Remote clock offset: 0.287 ms

# Below is generated by plot.py at 2018-07-11 20:22:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 654.80 Mbit/s

95th percentile per-packet one-way delay: 349.430 ms

Loss rate: 12.65%

-- Flow 1:

Average throughput: 113.47 Mbit/s

95th percentile per-packet one-way delay: 424.478 ms

Loss rate: 15.24%

-- Flow 2:

Average throughput: 589.38 Mbit/s

95th percentile per-packet one-way delay: 251.094 ms

Loss rate: 10.41%

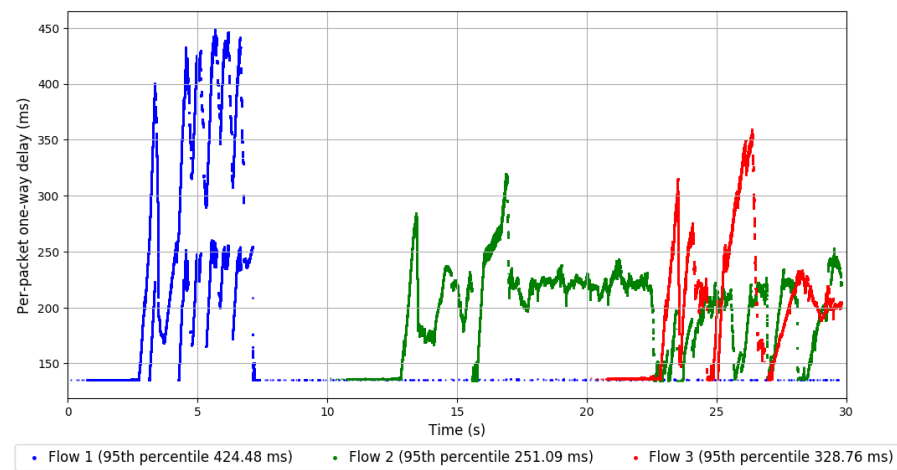
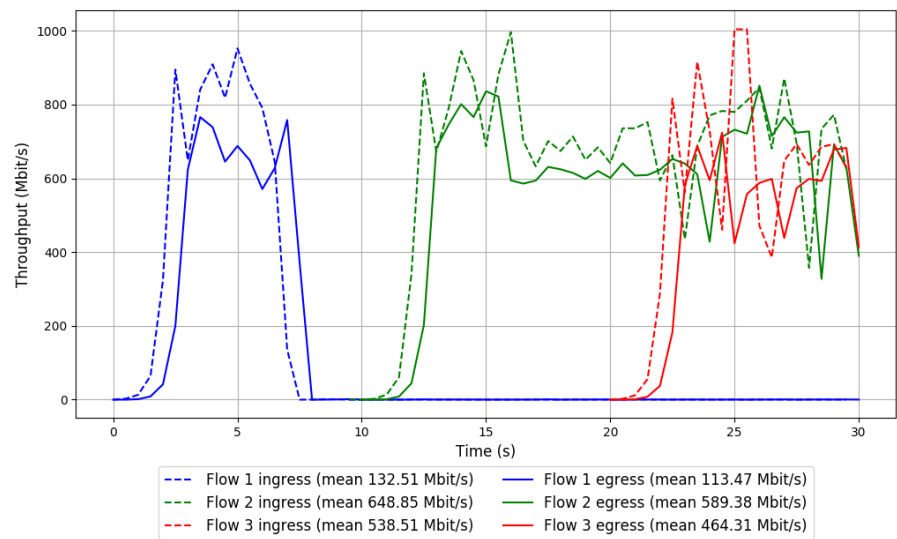
-- Flow 3:

Average throughput: 464.31 Mbit/s

95th percentile per-packet one-way delay: 328.759 ms

Loss rate: 16.16%

Run 4: Report of FillP-Sheep — Data Link



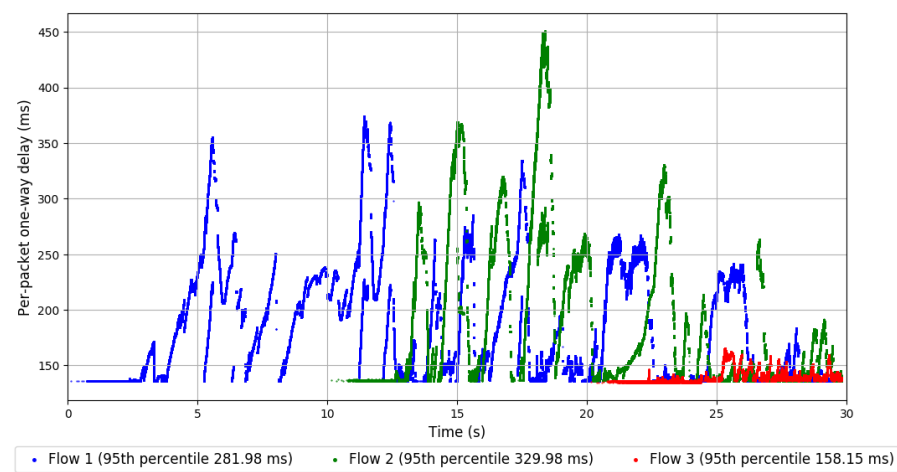
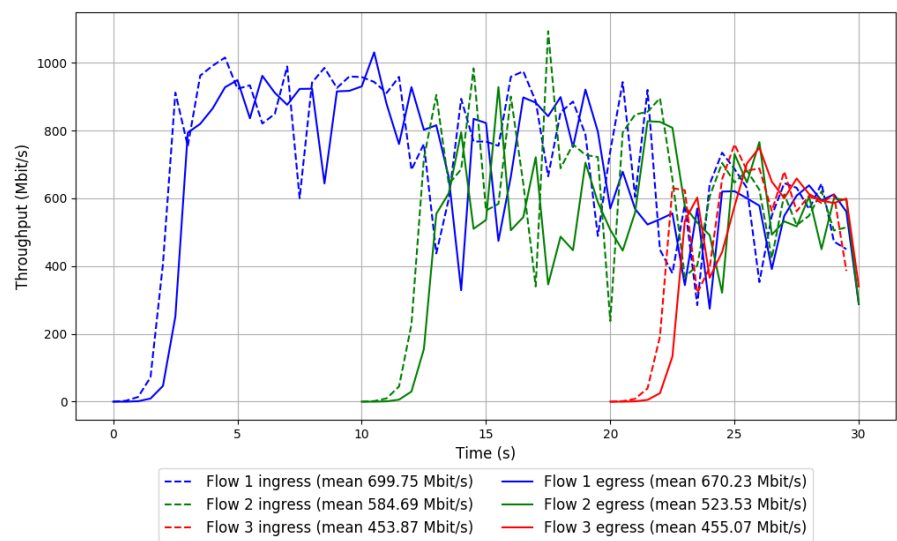
Run 5: Statistics of FillP-Sheep

Start at: 2018-07-11 16:40:59  
End at: 2018-07-11 16:41:29  
Local clock offset: 0.014 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-07-11 20:24:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1165.05 Mbit/s  
95th percentile per-packet one-way delay: 302.552 ms  
Loss rate: 6.81%  
-- Flow 1:  
Average throughput: 670.23 Mbit/s  
95th percentile per-packet one-way delay: 281.984 ms  
Loss rate: 5.07%  
-- Flow 2:  
Average throughput: 523.53 Mbit/s  
95th percentile per-packet one-way delay: 329.978 ms  
Loss rate: 11.65%  
-- Flow 3:  
Average throughput: 455.07 Mbit/s  
95th percentile per-packet one-way delay: 158.145 ms  
Loss rate: 2.40%



Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-11 17:08:19

End at: 2018-07-11 17:08:49

Local clock offset: 0.179 ms

Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2018-07-11 20:24:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1070.15 Mbit/s

95th percentile per-packet one-way delay: 294.619 ms

Loss rate: 8.76%

-- Flow 1:

Average throughput: 599.38 Mbit/s

95th percentile per-packet one-way delay: 249.317 ms

Loss rate: 8.17%

-- Flow 2:

Average throughput: 497.99 Mbit/s

95th percentile per-packet one-way delay: 311.254 ms

Loss rate: 10.47%

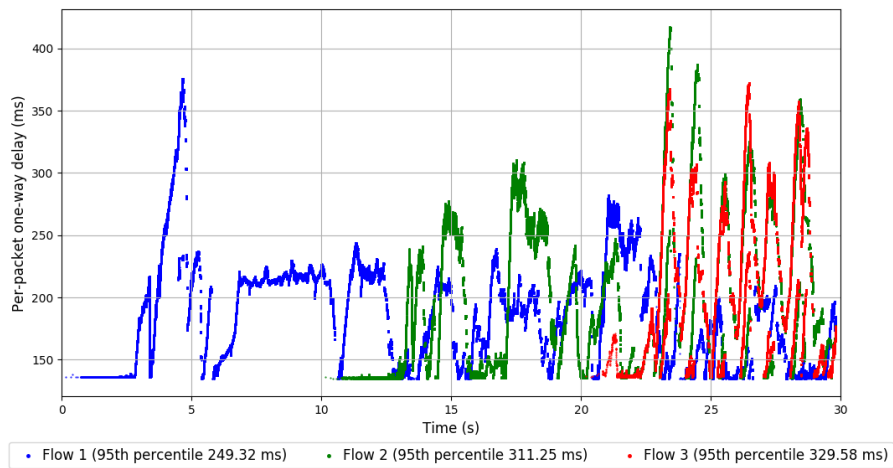
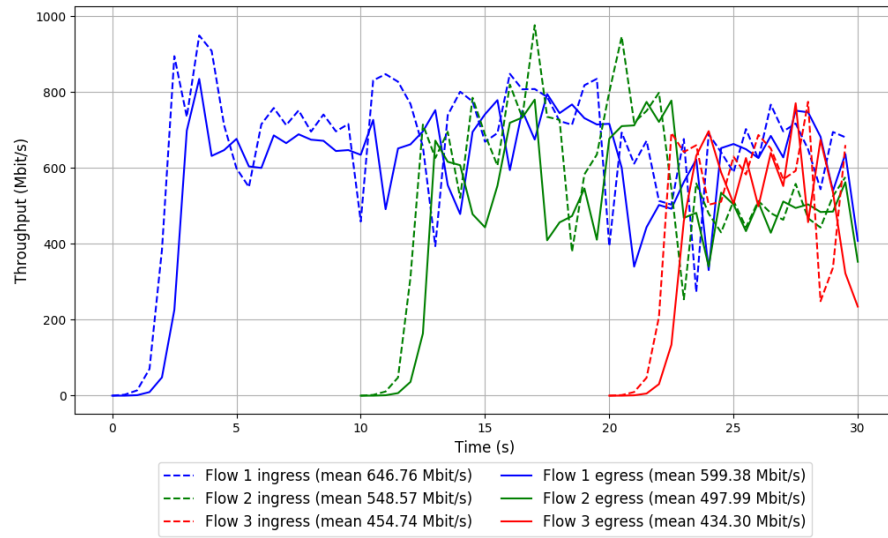
-- Flow 3:

Average throughput: 434.30 Mbit/s

95th percentile per-packet one-way delay: 329.579 ms

Loss rate: 7.12%

# Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-11 17:34:53

End at: 2018-07-11 17:35:23

Local clock offset: -0.125 ms

Remote clock offset: 0.294 ms

# Below is generated by plot.py at 2018-07-11 20:37:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1093.15 Mbit/s

95th percentile per-packet one-way delay: 307.943 ms

Loss rate: 7.30%

-- Flow 1:

Average throughput: 599.64 Mbit/s

95th percentile per-packet one-way delay: 305.165 ms

Loss rate: 8.37%

-- Flow 2:

Average throughput: 518.52 Mbit/s

95th percentile per-packet one-way delay: 335.332 ms

Loss rate: 6.92%

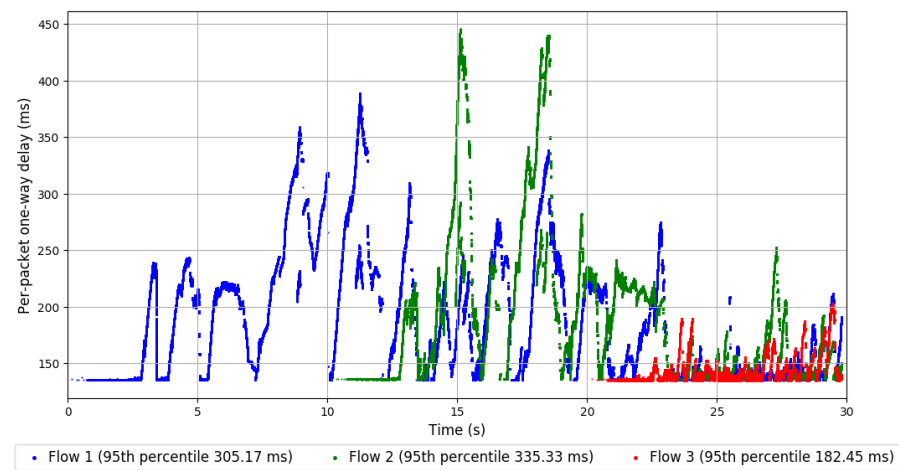
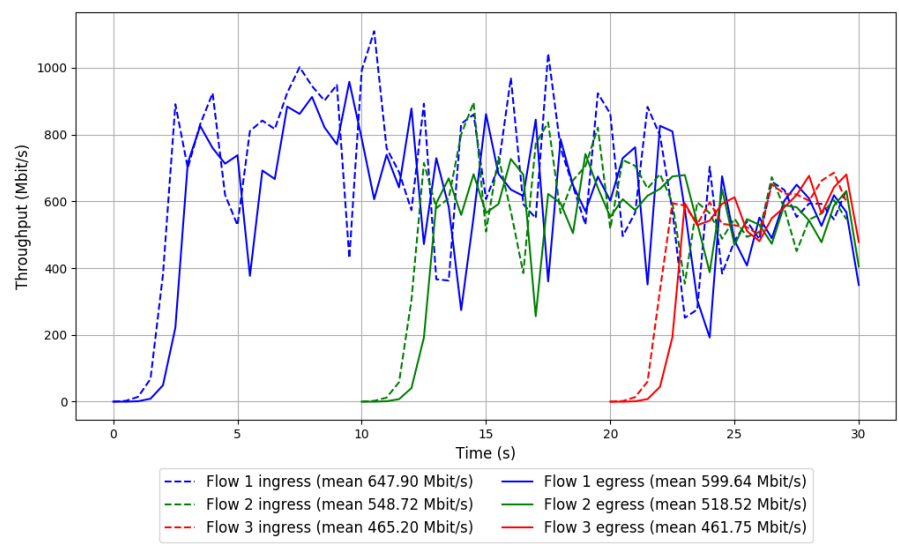
-- Flow 3:

Average throughput: 461.75 Mbit/s

95th percentile per-packet one-way delay: 182.449 ms

Loss rate: 3.73%

Run 7: Report of FillP-Sheep — Data Link

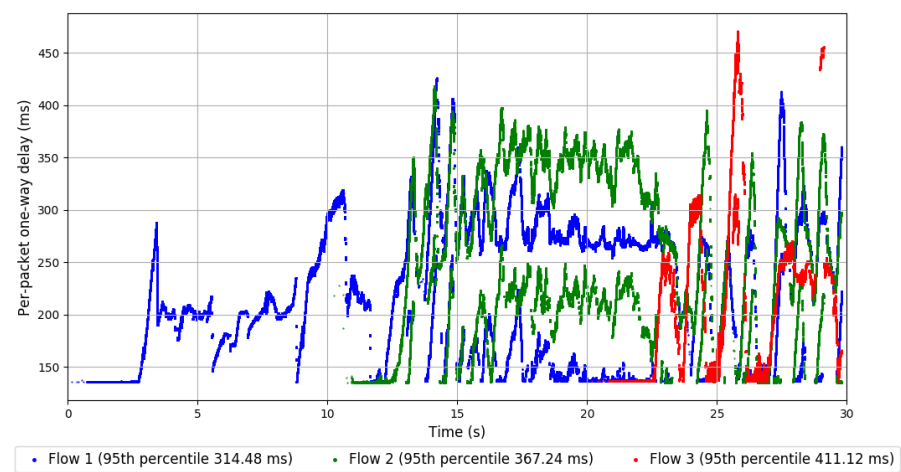
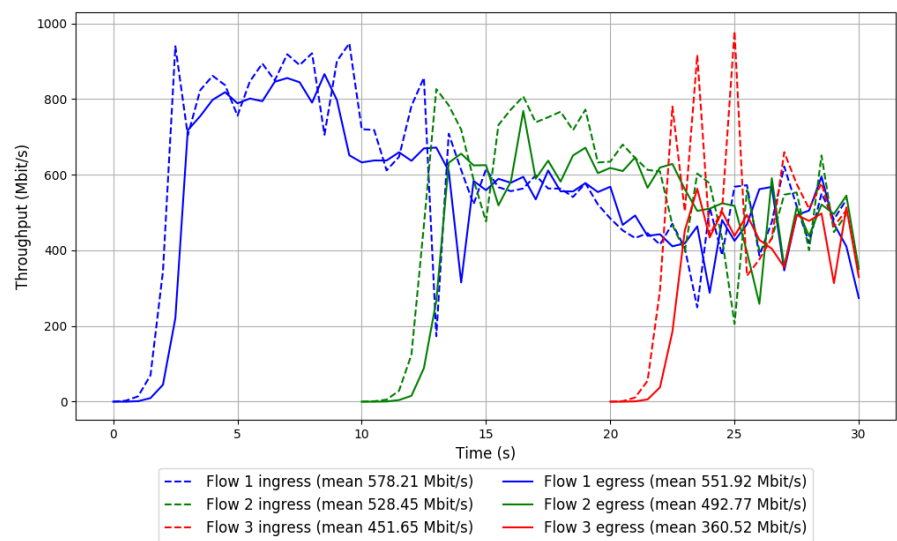


Run 8: Statistics of FillP-Sheep

Start at: 2018-07-11 18:01:40  
End at: 2018-07-11 18:02:10  
Local clock offset: -0.016 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-07-11 20:42:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 993.66 Mbit/s  
95th percentile per-packet one-way delay: 356.686 ms  
Loss rate: 8.72%  
-- Flow 1:  
Average throughput: 551.92 Mbit/s  
95th percentile per-packet one-way delay: 314.477 ms  
Loss rate: 5.41%  
-- Flow 2:  
Average throughput: 492.77 Mbit/s  
95th percentile per-packet one-way delay: 367.235 ms  
Loss rate: 8.39%  
-- Flow 3:  
Average throughput: 360.52 Mbit/s  
95th percentile per-packet one-way delay: 411.118 ms  
Loss rate: 22.37%

Run 8: Report of FillP-Sheep — Data Link



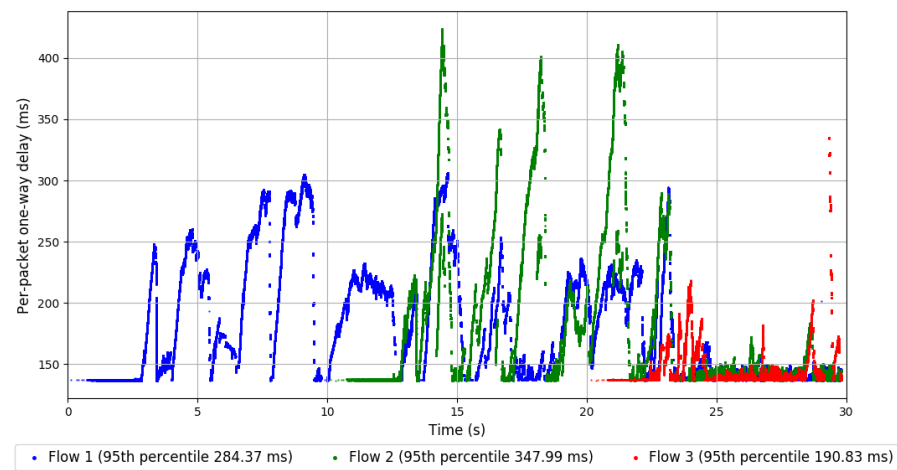
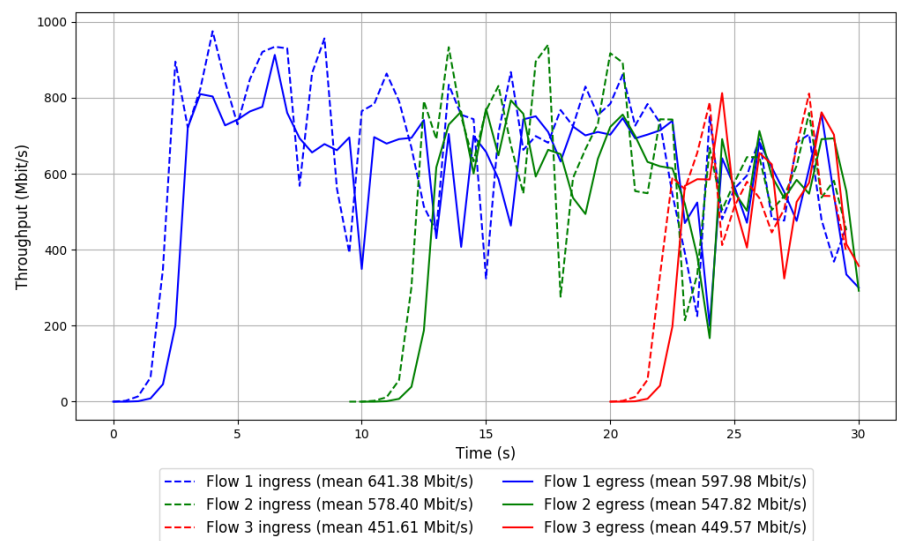
Run 9: Statistics of FillP-Sheep

Start at: 2018-07-11 18:28:23  
End at: 2018-07-11 18:28:53  
Local clock offset: 0.102 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-07-11 20:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1107.33 Mbit/s  
95th percentile per-packet one-way delay: 288.881 ms  
Loss rate: 6.65%  
-- Flow 1:  
Average throughput: 597.98 Mbit/s  
95th percentile per-packet one-way delay: 284.371 ms  
Loss rate: 7.52%  
-- Flow 2:  
Average throughput: 547.82 Mbit/s  
95th percentile per-packet one-way delay: 347.985 ms  
Loss rate: 6.58%  
-- Flow 3:  
Average throughput: 449.57 Mbit/s  
95th percentile per-packet one-way delay: 190.833 ms  
Loss rate: 3.14%



Run 9: Report of FillP-Sheep — Data Link

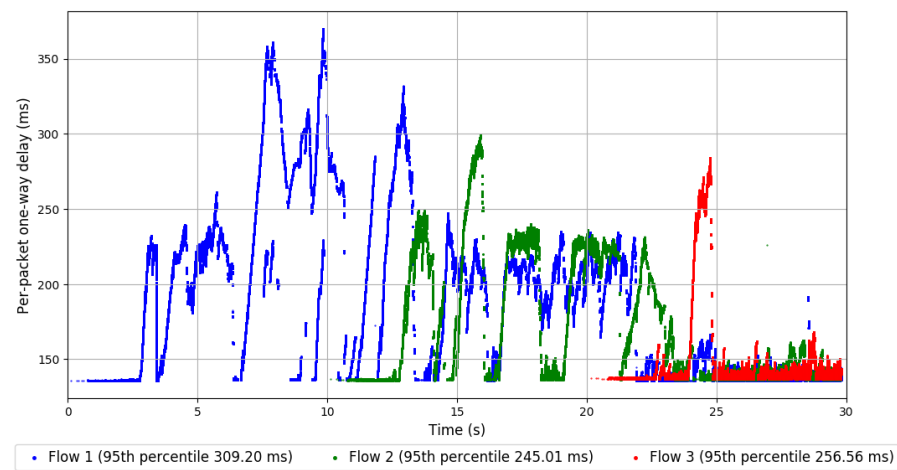
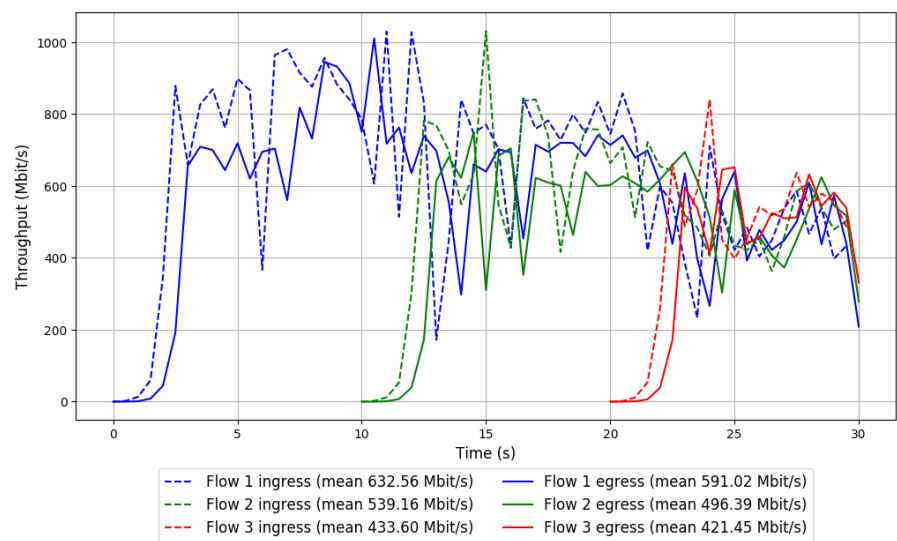


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-11 18:55:09  
End at: 2018-07-11 18:55:39  
Local clock offset: -0.0 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-07-11 20:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1057.07 Mbit/s  
95th percentile per-packet one-way delay: 289.398 ms  
Loss rate: 7.73%  
-- Flow 1:  
Average throughput: 591.02 Mbit/s  
95th percentile per-packet one-way delay: 309.196 ms  
Loss rate: 7.42%  
-- Flow 2:  
Average throughput: 496.39 Mbit/s  
95th percentile per-packet one-way delay: 245.007 ms  
Loss rate: 9.17%  
-- Flow 3:  
Average throughput: 421.45 Mbit/s  
95th percentile per-packet one-way delay: 256.556 ms  
Loss rate: 5.49%

Run 10: Report of FillP-Sheep — Data Link

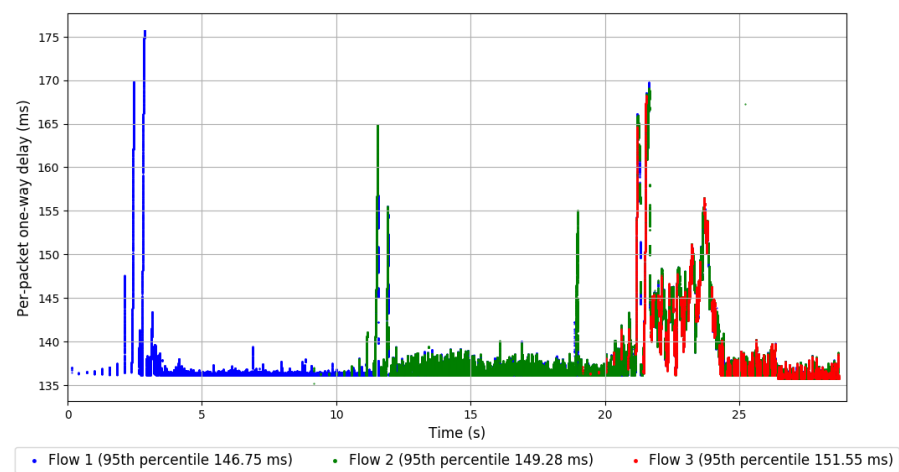
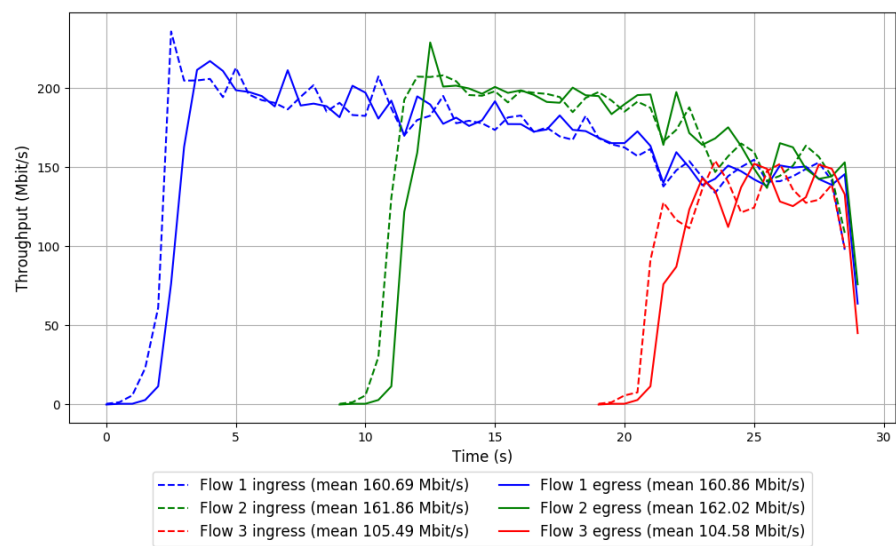


Run 1: Statistics of Indigo

Start at: 2018-07-11 14:59:46  
End at: 2018-07-11 15:00:16  
Local clock offset: 0.023 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-07-11 20:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 306.52 Mbit/s  
95th percentile per-packet one-way delay: 148.454 ms  
Loss rate: 1.34%  
-- Flow 1:  
Average throughput: 160.86 Mbit/s  
95th percentile per-packet one-way delay: 146.745 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 162.02 Mbit/s  
95th percentile per-packet one-way delay: 149.282 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 104.58 Mbit/s  
95th percentile per-packet one-way delay: 151.549 ms  
Loss rate: 3.66%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-11 15:26:27

End at: 2018-07-11 15:26:57

Local clock offset: -0.14 ms

Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2018-07-11 20:45:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 324.92 Mbit/s

95th percentile per-packet one-way delay: 142.704 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 170.03 Mbit/s

95th percentile per-packet one-way delay: 141.165 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 161.60 Mbit/s

95th percentile per-packet one-way delay: 142.114 ms

Loss rate: 1.29%

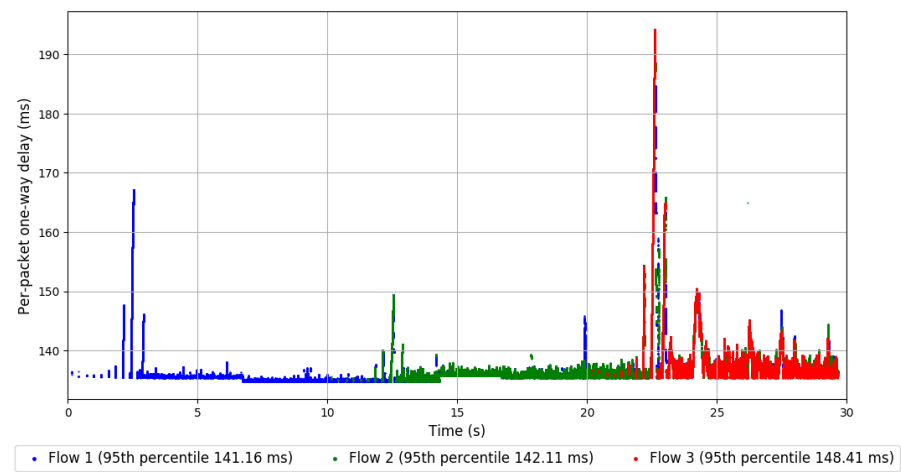
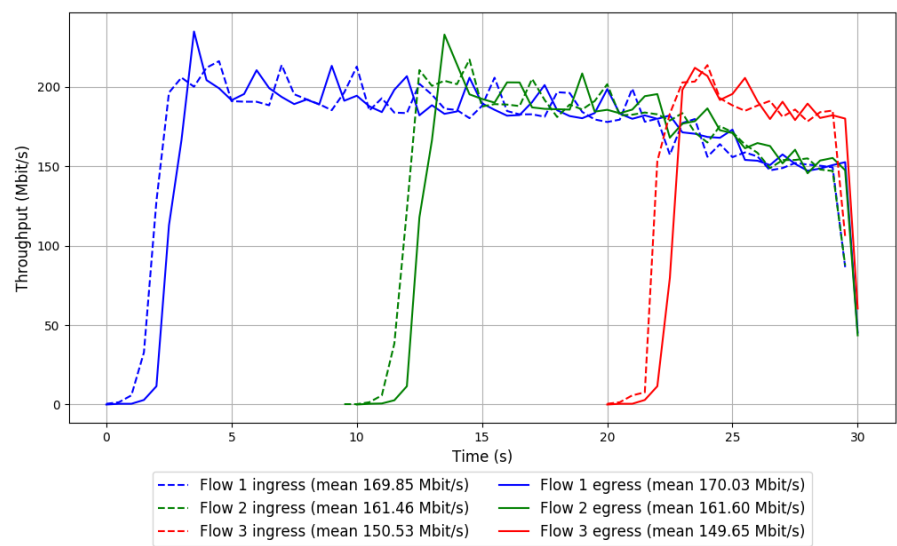
-- Flow 3:

Average throughput: 149.65 Mbit/s

95th percentile per-packet one-way delay: 148.413 ms

Loss rate: 3.38%

Run 2: Report of Indigo — Data Link



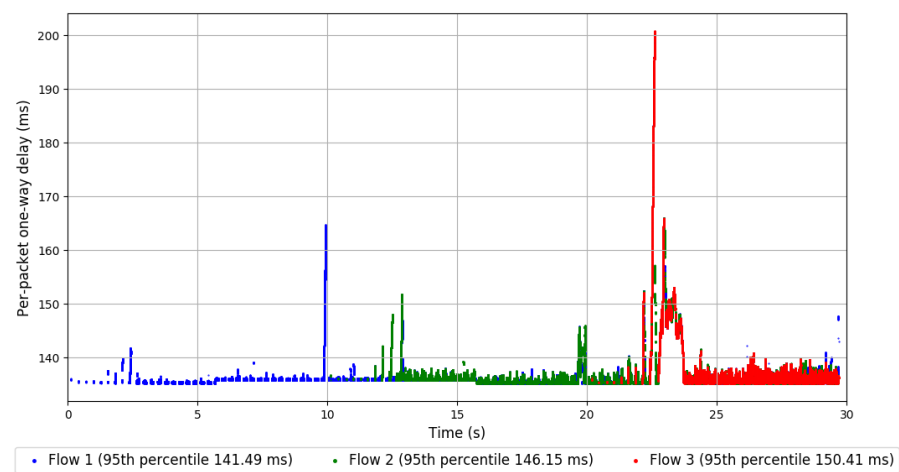
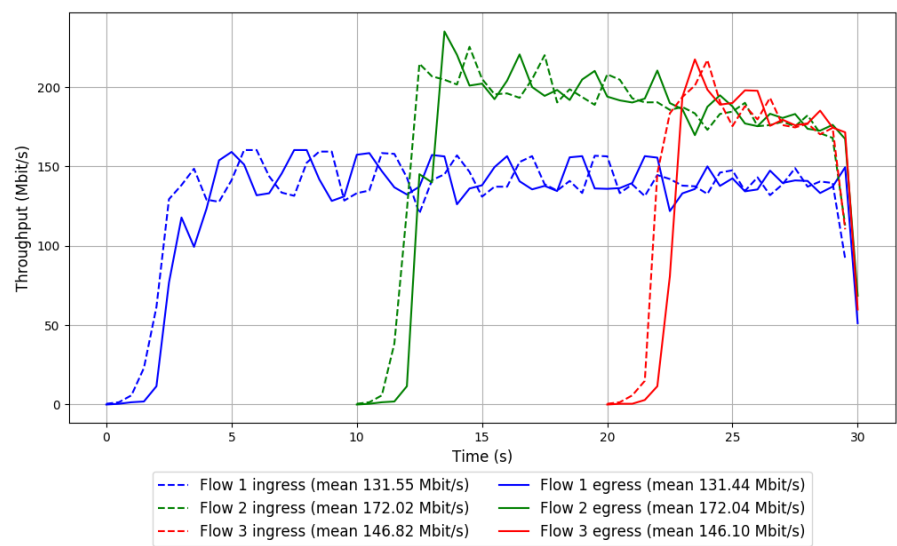
Run 3: Statistics of Indigo

Start at: 2018-07-11 15:53:18  
End at: 2018-07-11 15:53:48  
Local clock offset: -0.185 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-07-11 20:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 292.26 Mbit/s  
95th percentile per-packet one-way delay: 146.424 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 131.44 Mbit/s  
95th percentile per-packet one-way delay: 141.490 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 172.04 Mbit/s  
95th percentile per-packet one-way delay: 146.154 ms  
Loss rate: 1.36%  
-- Flow 3:  
Average throughput: 146.10 Mbit/s  
95th percentile per-packet one-way delay: 150.415 ms  
Loss rate: 3.26%



Run 3: Report of Indigo — Data Link

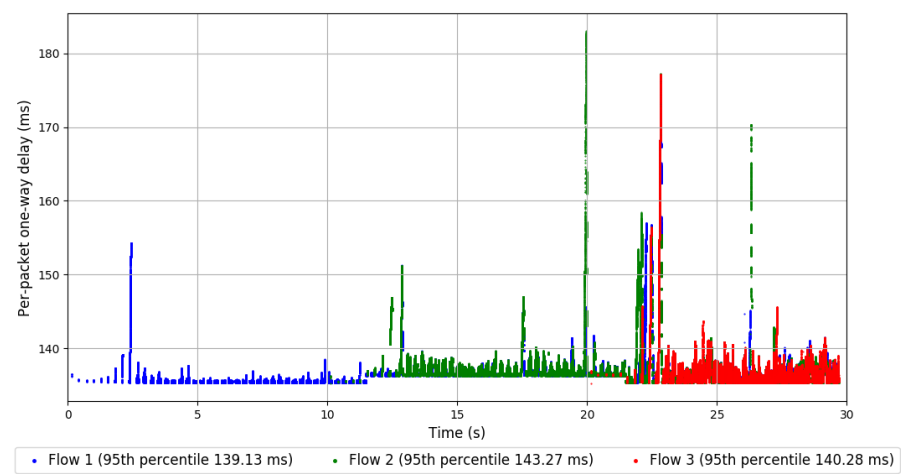
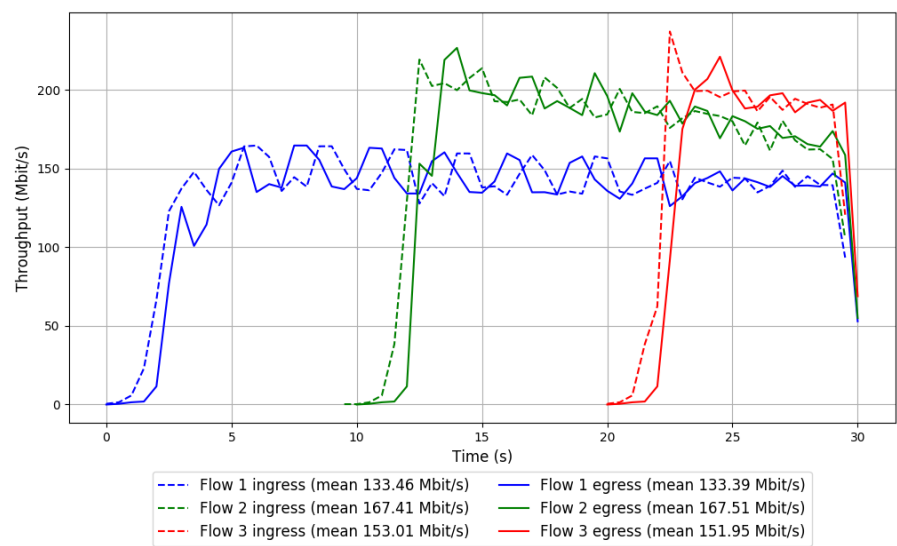


Run 4: Statistics of Indigo

Start at: 2018-07-11 16:19:42  
End at: 2018-07-11 16:20:12  
Local clock offset: 0.039 ms  
Remote clock offset: -0.102 ms

```
# Below is generated by plot.py at 2018-07-11 20:45:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.32 Mbit/s
95th percentile per-packet one-way delay: 140.131 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 133.39 Mbit/s
95th percentile per-packet one-way delay: 139.129 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 167.51 Mbit/s
95th percentile per-packet one-way delay: 143.267 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 151.95 Mbit/s
95th percentile per-packet one-way delay: 140.284 ms
Loss rate: 3.43%
```

Run 4: Report of Indigo — Data Link

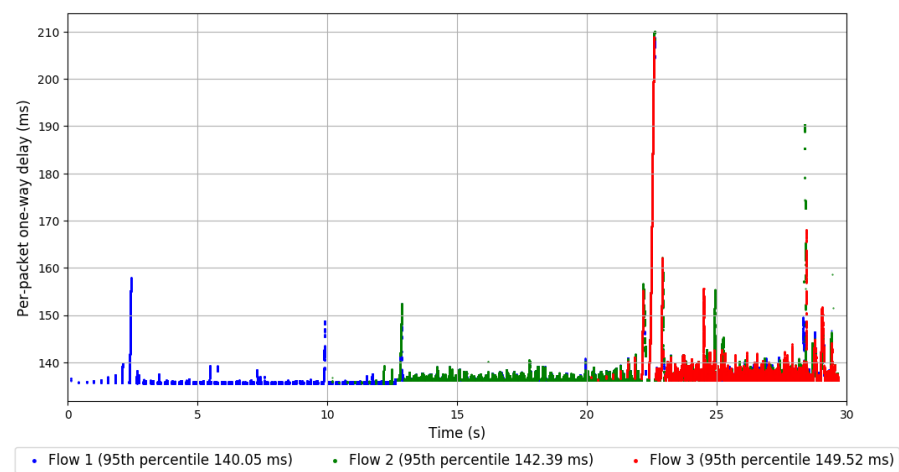
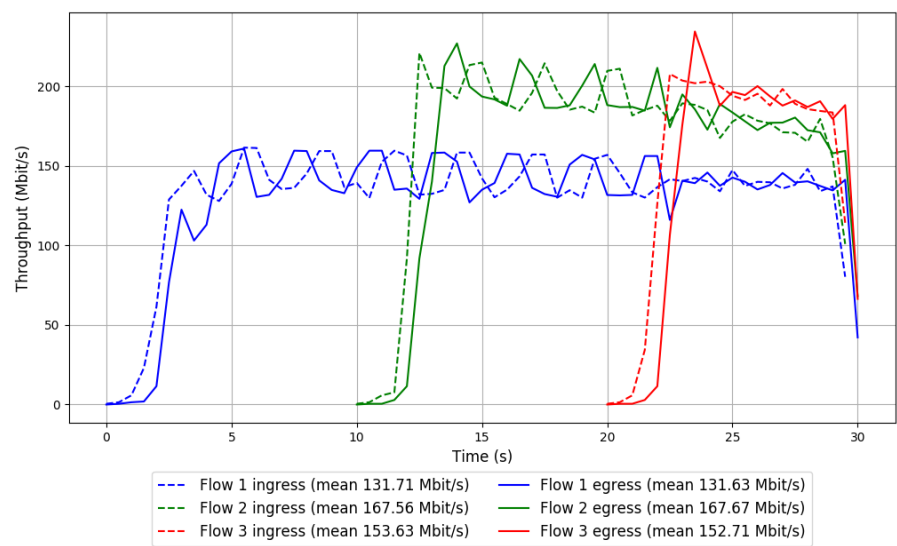


Run 5: Statistics of Indigo

Start at: 2018-07-11 16:47:01  
End at: 2018-07-11 16:47:31  
Local clock offset: -0.17 ms  
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2018-07-11 20:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 291.45 Mbit/s  
95th percentile per-packet one-way delay: 142.248 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 131.63 Mbit/s  
95th percentile per-packet one-way delay: 140.051 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 167.67 Mbit/s  
95th percentile per-packet one-way delay: 142.386 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 152.71 Mbit/s  
95th percentile per-packet one-way delay: 149.520 ms  
Loss rate: 3.38%

Run 5: Report of Indigo — Data Link

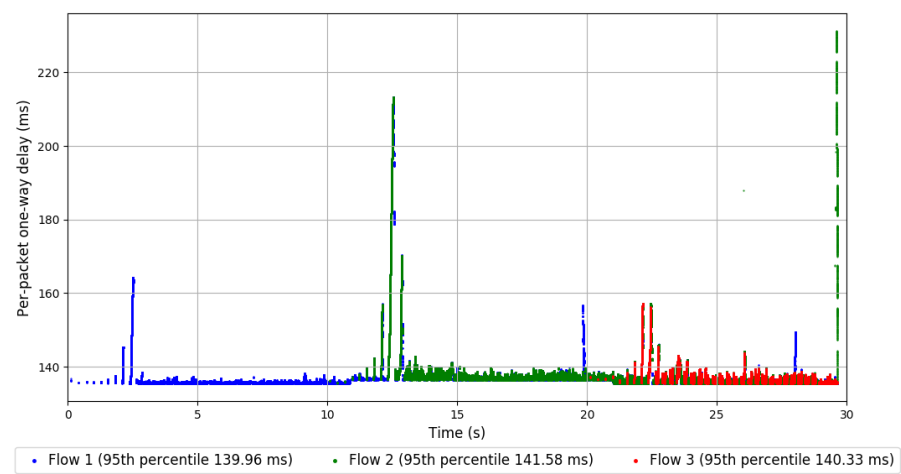
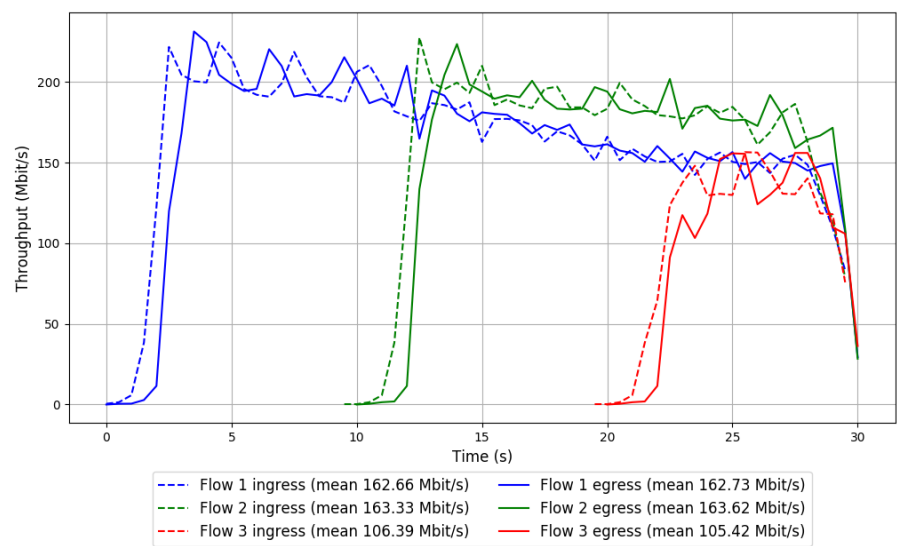


Run 6: Statistics of Indigo

Start at: 2018-07-11 17:13:42  
End at: 2018-07-11 17:14:12  
Local clock offset: 0.079 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-07-11 20:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 305.04 Mbit/s  
95th percentile per-packet one-way delay: 140.500 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 162.73 Mbit/s  
95th percentile per-packet one-way delay: 139.963 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 163.62 Mbit/s  
95th percentile per-packet one-way delay: 141.581 ms  
Loss rate: 1.22%  
-- Flow 3:  
Average throughput: 105.42 Mbit/s  
95th percentile per-packet one-way delay: 140.332 ms  
Loss rate: 3.64%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-11 17:40:24

End at: 2018-07-11 17:40:54

Local clock offset: -0.089 ms

Remote clock offset: 0.296 ms

# Below is generated by plot.py at 2018-07-11 20:45:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 288.47 Mbit/s

95th percentile per-packet one-way delay: 139.250 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 174.03 Mbit/s

95th percentile per-packet one-way delay: 139.075 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 128.00 Mbit/s

95th percentile per-packet one-way delay: 139.474 ms

Loss rate: 1.54%

-- Flow 3:

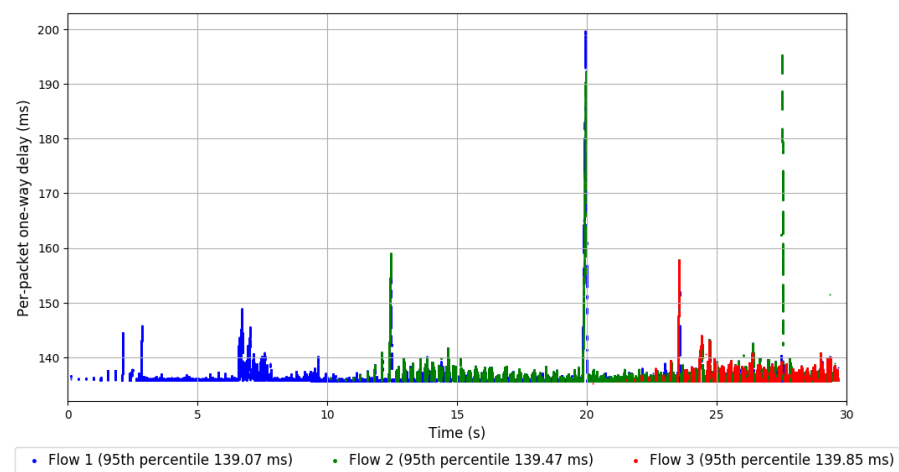
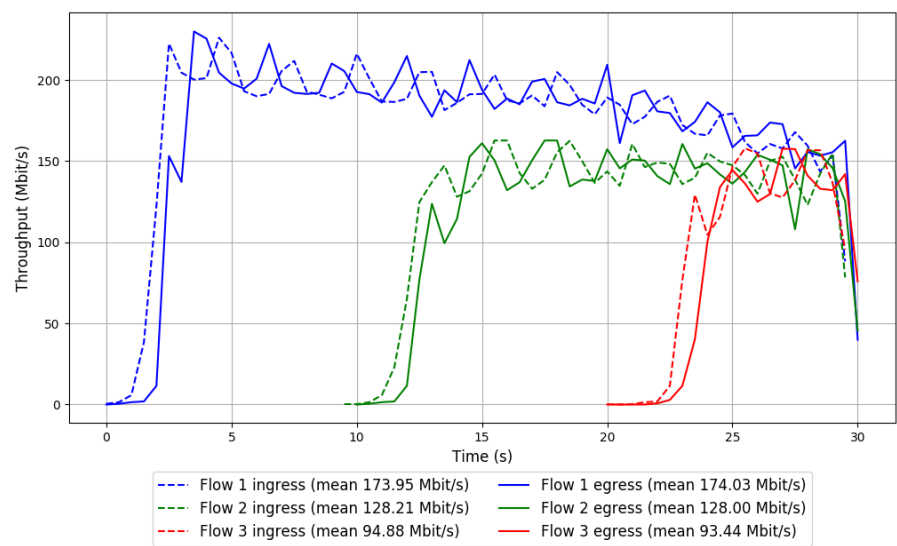
Average throughput: 93.44 Mbit/s

95th percentile per-packet one-way delay: 139.846 ms

Loss rate: 4.26%



Run 7: Report of Indigo — Data Link

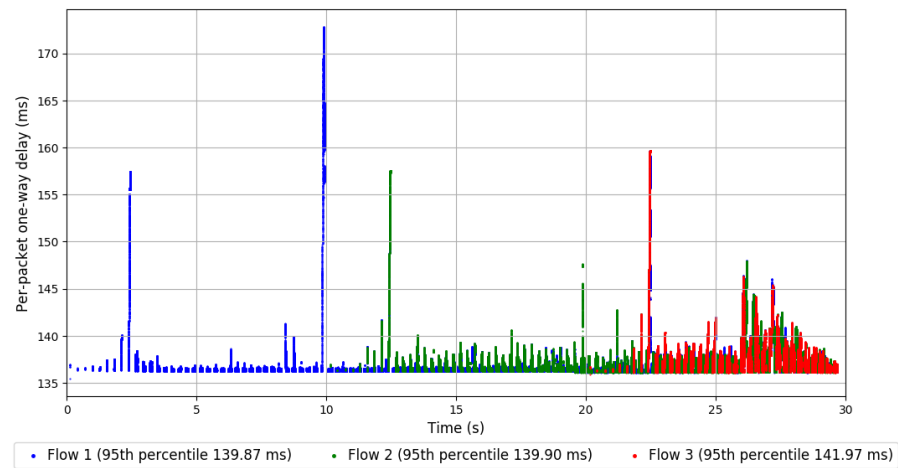
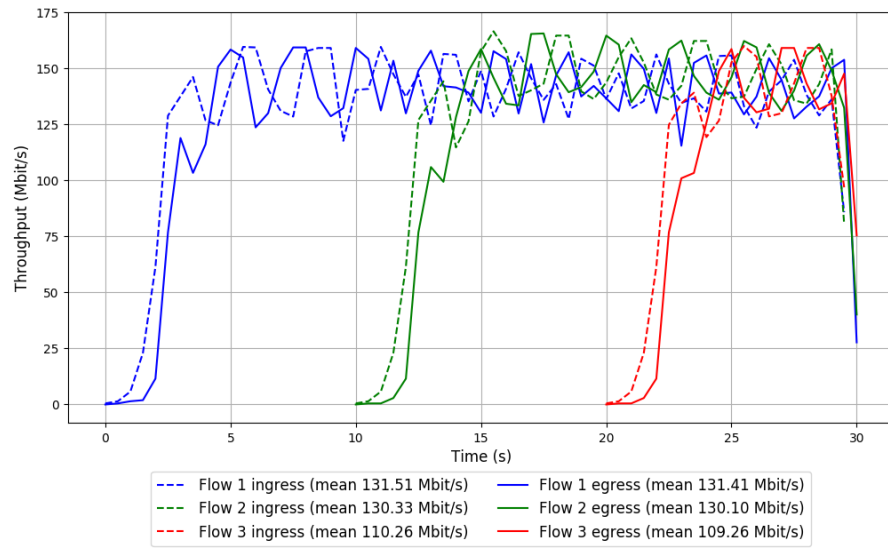


Run 8: Statistics of Indigo

Start at: 2018-07-11 18:07:14  
End at: 2018-07-11 18:07:44  
Local clock offset: -0.029 ms  
Remote clock offset: -0.096 ms

```
# Below is generated by plot.py at 2018-07-11 20:45:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.20 Mbit/s
95th percentile per-packet one-way delay: 140.319 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 131.41 Mbit/s
95th percentile per-packet one-way delay: 139.872 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 130.10 Mbit/s
95th percentile per-packet one-way delay: 139.901 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 109.26 Mbit/s
95th percentile per-packet one-way delay: 141.965 ms
Loss rate: 3.68%
```

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-11 18:34:02

End at: 2018-07-11 18:34:32

Local clock offset: 0.164 ms

Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2018-07-11 20:45:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 293.43 Mbit/s

95th percentile per-packet one-way delay: 138.453 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 131.19 Mbit/s

95th percentile per-packet one-way delay: 138.192 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 171.54 Mbit/s

95th percentile per-packet one-way delay: 138.320 ms

Loss rate: 1.31%

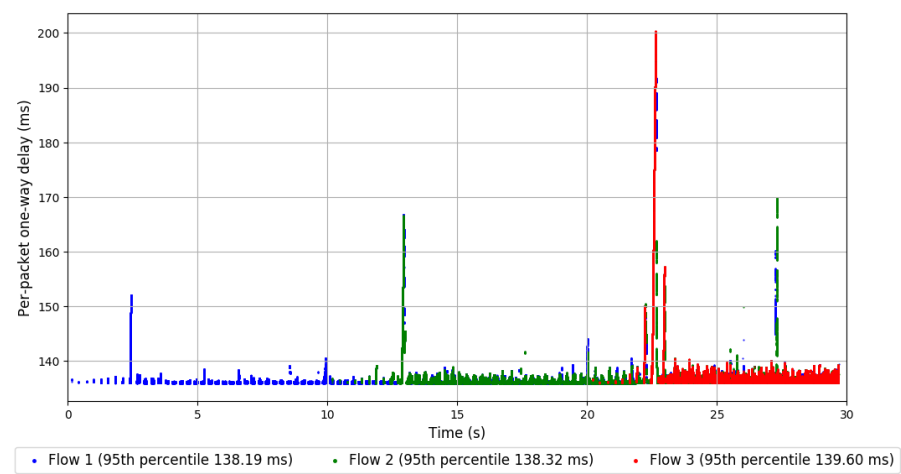
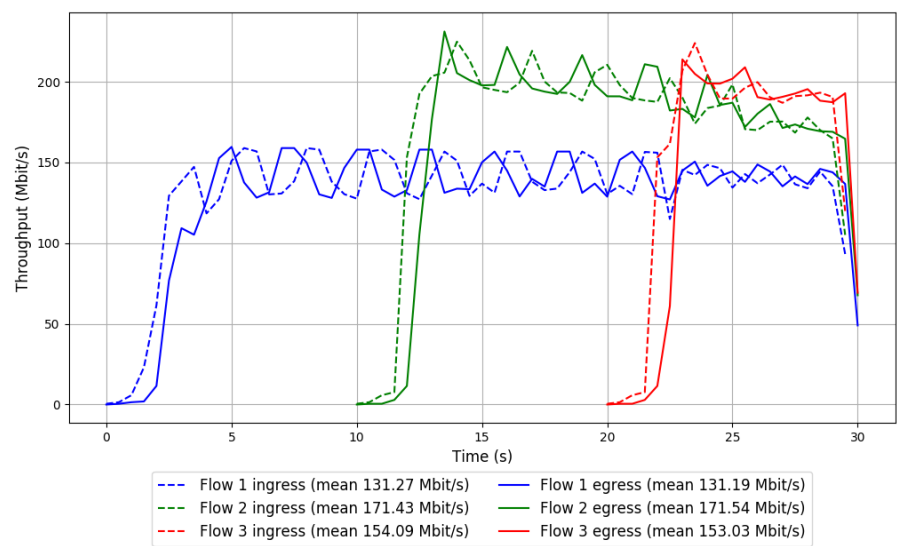
-- Flow 3:

Average throughput: 153.03 Mbit/s

95th percentile per-packet one-way delay: 139.602 ms

Loss rate: 3.48%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-11 19:00:47

End at: 2018-07-11 19:01:17

Local clock offset: -0.071 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-07-11 20:45:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 292.27 Mbit/s

95th percentile per-packet one-way delay: 140.028 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 176.28 Mbit/s

95th percentile per-packet one-way delay: 139.930 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 129.51 Mbit/s

95th percentile per-packet one-way delay: 139.752 ms

Loss rate: 1.54%

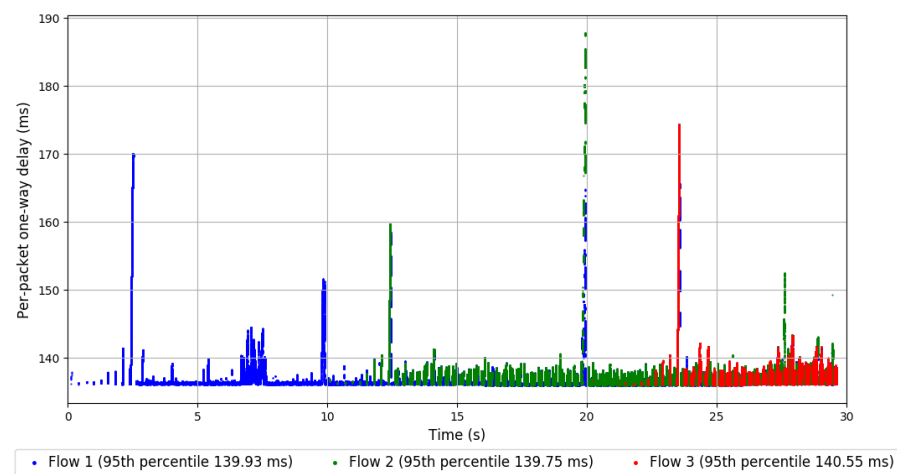
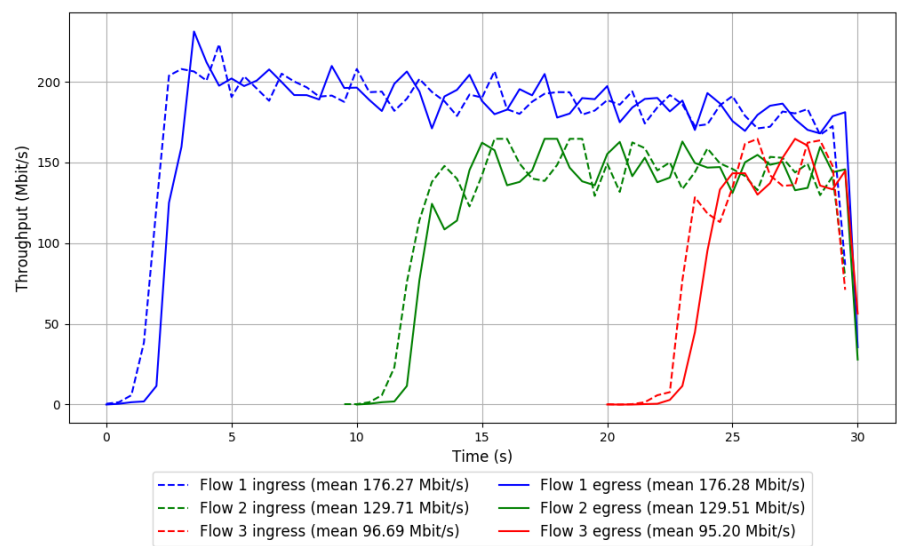
-- Flow 3:

Average throughput: 95.20 Mbit/s

95th percentile per-packet one-way delay: 140.554 ms

Loss rate: 4.33%

Run 10: Report of Indigo — Data Link



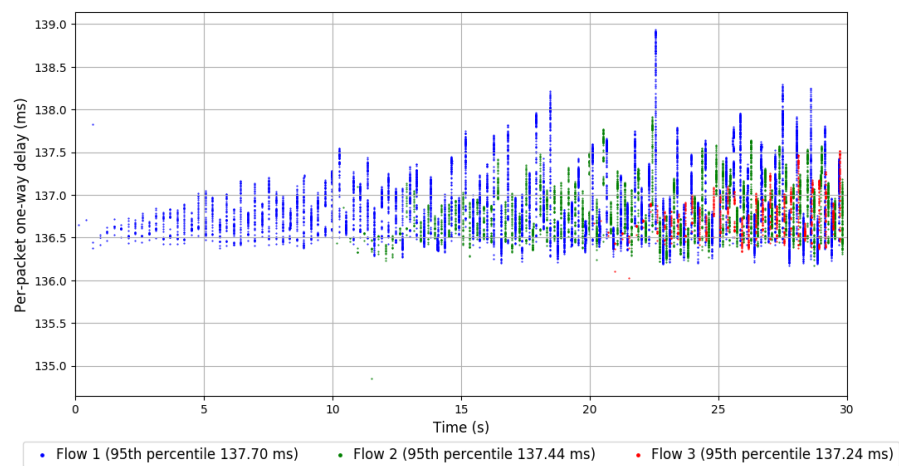
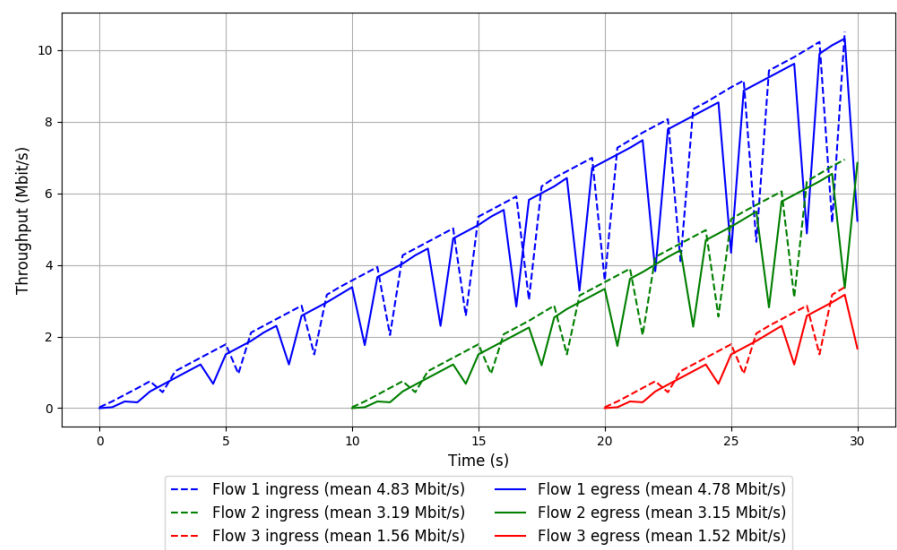
Run 1: Statistics of LEDBAT

Start at: 2018-07-11 14:51:12  
End at: 2018-07-11 14:51:42  
Local clock offset: 0.048 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-07-11 20:45:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.34 Mbit/s  
95th percentile per-packet one-way delay: 137.604 ms  
Loss rate: 2.35%  
-- Flow 1:  
Average throughput: 4.78 Mbit/s  
95th percentile per-packet one-way delay: 137.699 ms  
Loss rate: 1.83%  
-- Flow 2:  
Average throughput: 3.15 Mbit/s  
95th percentile per-packet one-way delay: 137.444 ms  
Loss rate: 2.75%  
-- Flow 3:  
Average throughput: 1.52 Mbit/s  
95th percentile per-packet one-way delay: 137.243 ms  
Loss rate: 5.56%



Run 1: Report of LEDBAT — Data Link

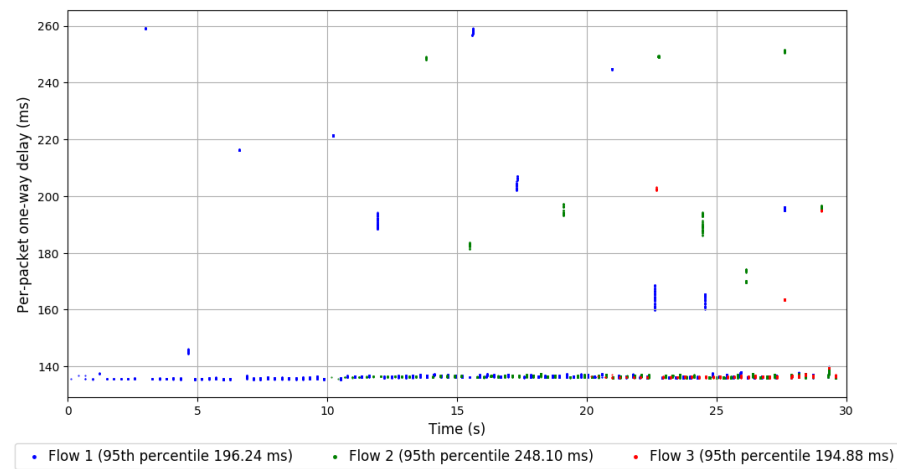
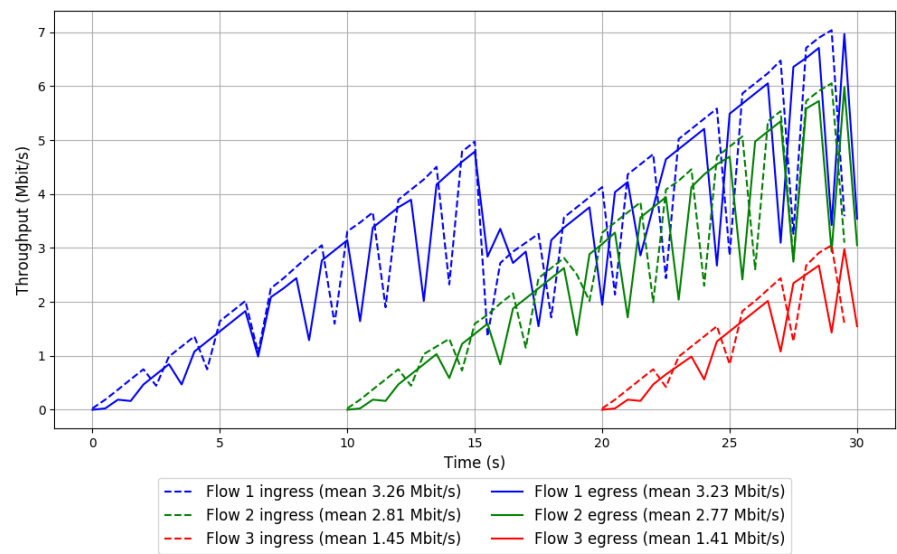


Run 2: Statistics of LEDBAT

Start at: 2018-07-11 15:18:23  
End at: 2018-07-11 15:18:53  
Local clock offset: -0.051 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-07-11 20:45:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.51 Mbit/s  
95th percentile per-packet one-way delay: 196.319 ms  
Loss rate: 2.53%  
-- Flow 1:  
Average throughput: 3.23 Mbit/s  
95th percentile per-packet one-way delay: 196.237 ms  
Loss rate: 1.92%  
-- Flow 2:  
Average throughput: 2.77 Mbit/s  
95th percentile per-packet one-way delay: 248.099 ms  
Loss rate: 2.80%  
-- Flow 3:  
Average throughput: 1.41 Mbit/s  
95th percentile per-packet one-way delay: 194.878 ms  
Loss rate: 5.65%

Run 2: Report of LEDBAT — Data Link

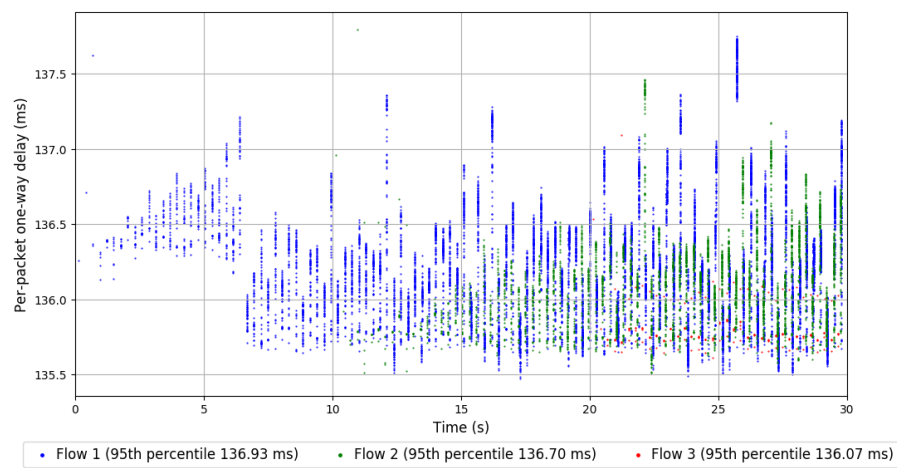
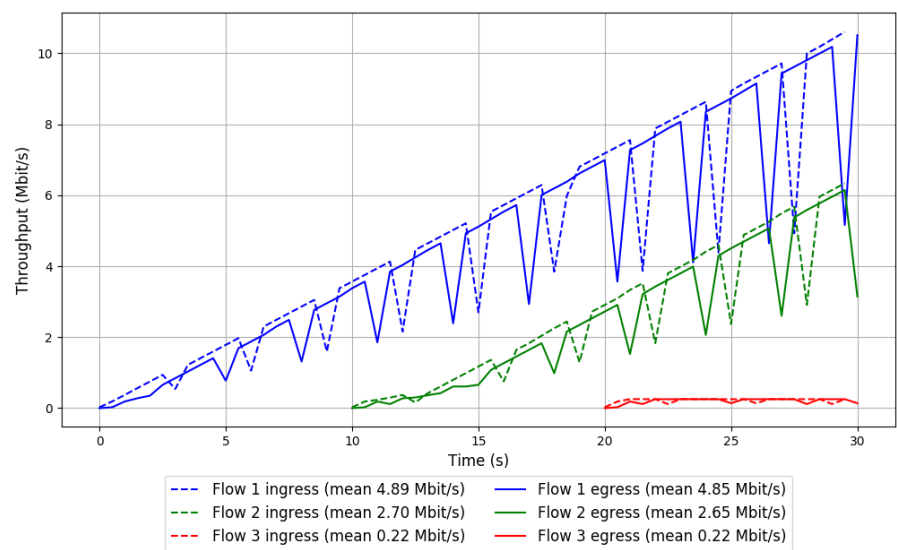


Run 3: Statistics of LEDBAT

Start at: 2018-07-11 15:45:07  
End at: 2018-07-11 15:45:37  
Local clock offset: 0.137 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-07-11 20:45:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.67 Mbit/s  
95th percentile per-packet one-way delay: 136.893 ms  
Loss rate: 2.13%  
-- Flow 1:  
Average throughput: 4.85 Mbit/s  
95th percentile per-packet one-way delay: 136.930 ms  
Loss rate: 1.82%  
-- Flow 2:  
Average throughput: 2.65 Mbit/s  
95th percentile per-packet one-way delay: 136.701 ms  
Loss rate: 2.97%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.074 ms  
Loss rate: 2.63%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-11 16:11:40

End at: 2018-07-11 16:12:10

Local clock offset: 0.038 ms

Remote clock offset: 0.25 ms

# Below is generated by plot.py at 2018-07-11 20:45:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 136.615 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 136.658 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 136.485 ms

Loss rate: 2.74%

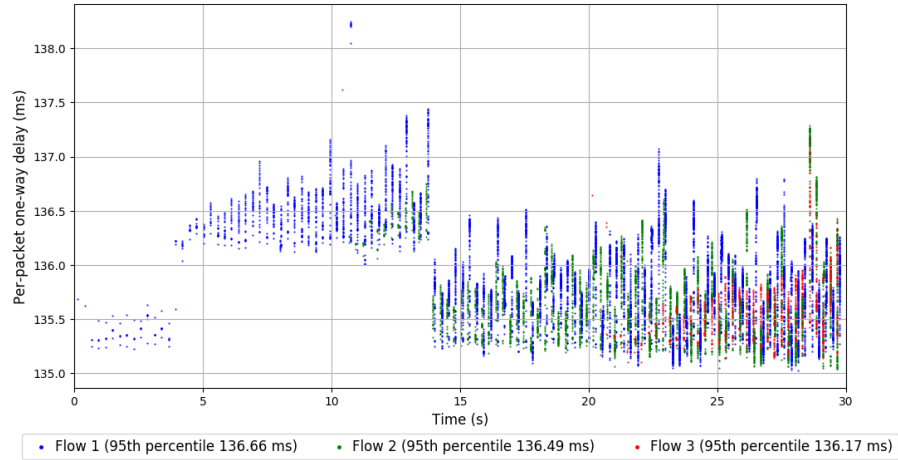
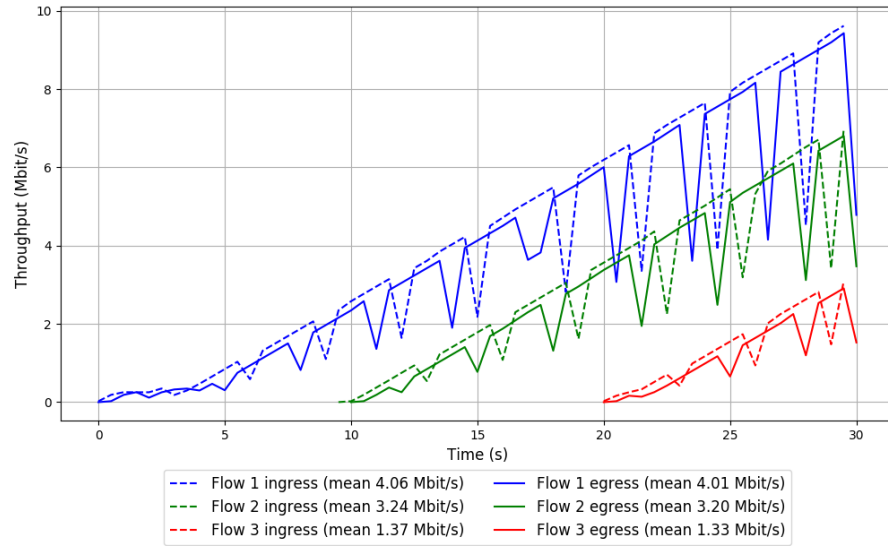
-- Flow 3:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 136.168 ms

Loss rate: 5.85%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-11 16:38:20

End at: 2018-07-11 16:38:50

Local clock offset: -0.268 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-07-11 20:45:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 136.514 ms

Loss rate: 2.35%

-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 136.591 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 136.327 ms

Loss rate: 2.74%

-- Flow 3:

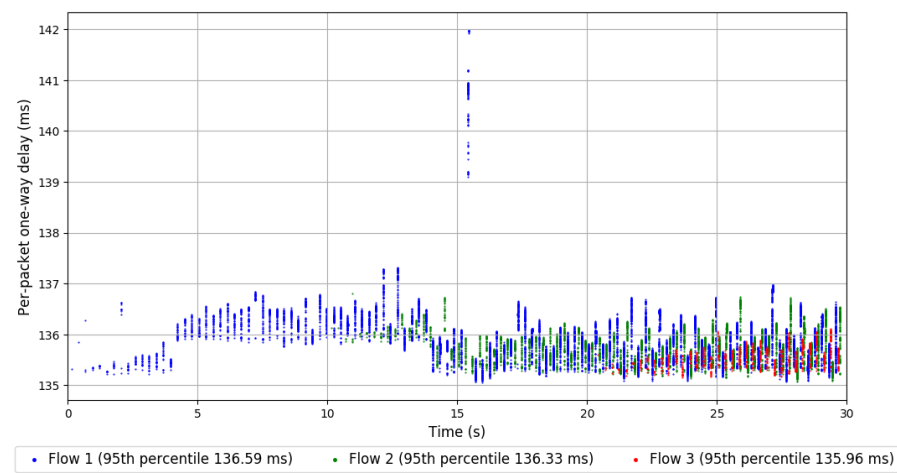
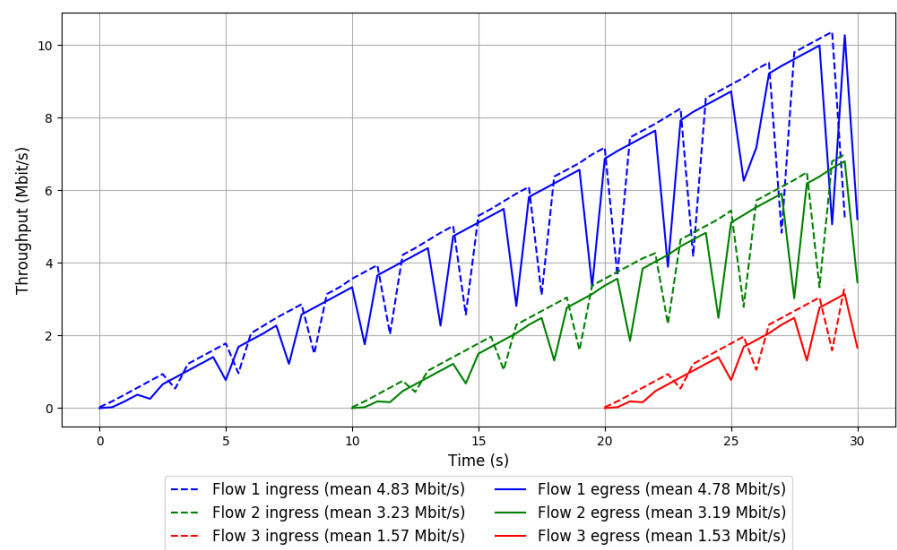
Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 135.963 ms

Loss rate: 5.57%



Run 5: Report of LEDBAT — Data Link

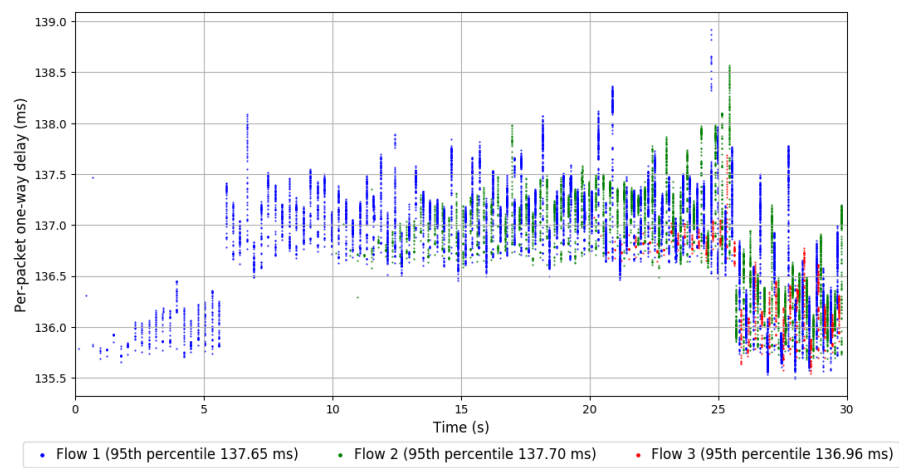
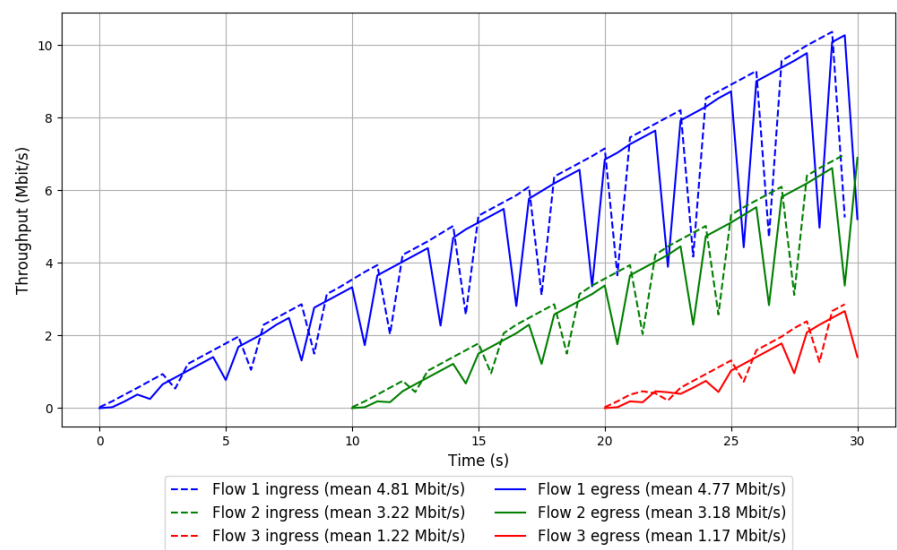


Run 6: Statistics of LEDBAT

Start at: 2018-07-11 17:05:38  
End at: 2018-07-11 17:06:08  
Local clock offset: 0.113 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-07-11 20:45:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.22 Mbit/s  
95th percentile per-packet one-way delay: 137.652 ms  
Loss rate: 2.33%  
-- Flow 1:  
Average throughput: 4.77 Mbit/s  
95th percentile per-packet one-way delay: 137.651 ms  
Loss rate: 1.83%  
-- Flow 2:  
Average throughput: 3.18 Mbit/s  
95th percentile per-packet one-way delay: 137.703 ms  
Loss rate: 2.74%  
-- Flow 3:  
Average throughput: 1.17 Mbit/s  
95th percentile per-packet one-way delay: 136.958 ms  
Loss rate: 6.10%

Run 6: Report of LEDBAT — Data Link

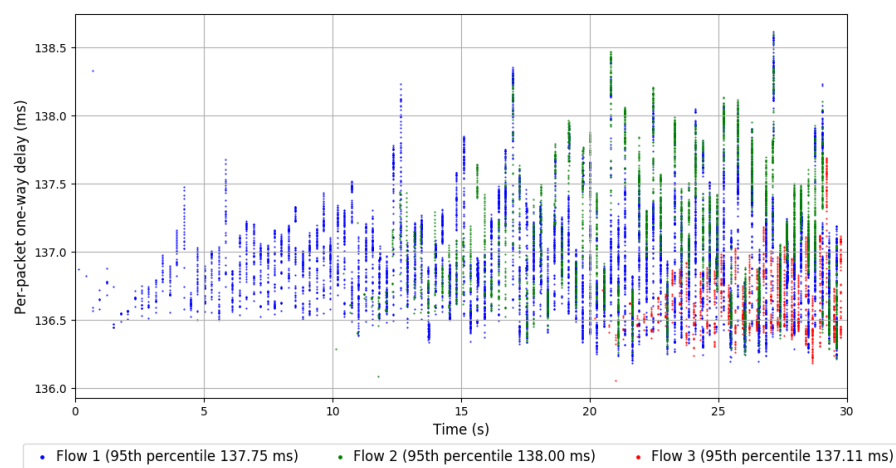
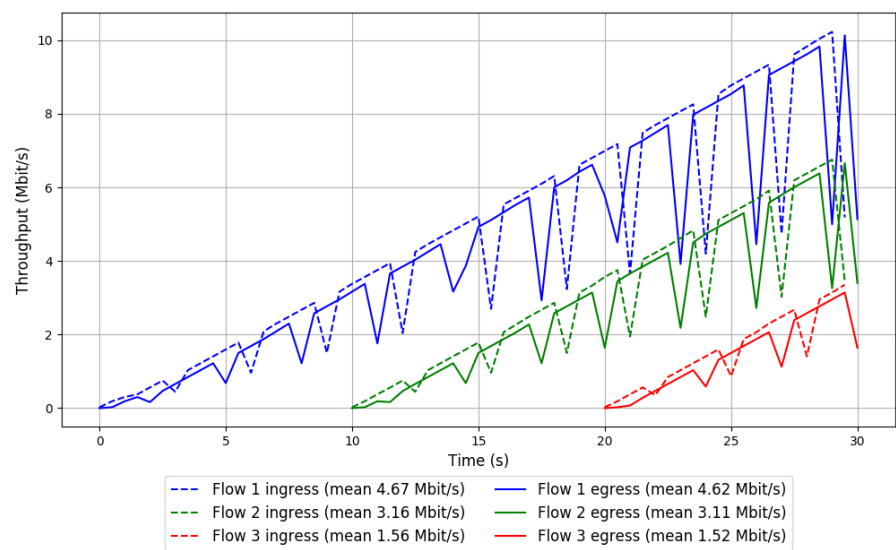


Run 7: Statistics of LEDBAT

Start at: 2018-07-11 17:32:14  
End at: 2018-07-11 17:32:45  
Local clock offset: 0.069 ms  
Remote clock offset: -0.055 ms

```
# Below is generated by plot.py at 2018-07-11 20:45:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 137.853 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 137.755 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 137.997 ms
Loss rate: 2.77%
-- Flow 3:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 137.108 ms
Loss rate: 5.57%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-11 17:59:03

End at: 2018-07-11 17:59:33

Local clock offset: -0.008 ms

Remote clock offset: 0.287 ms

# Below is generated by plot.py at 2018-07-11 20:45:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 137.286 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.376 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 3.16 Mbit/s

95th percentile per-packet one-way delay: 137.129 ms

Loss rate: 2.74%

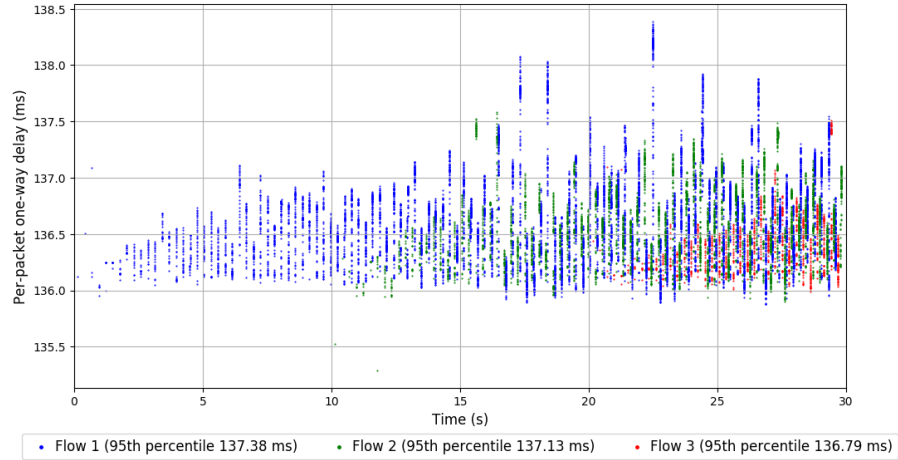
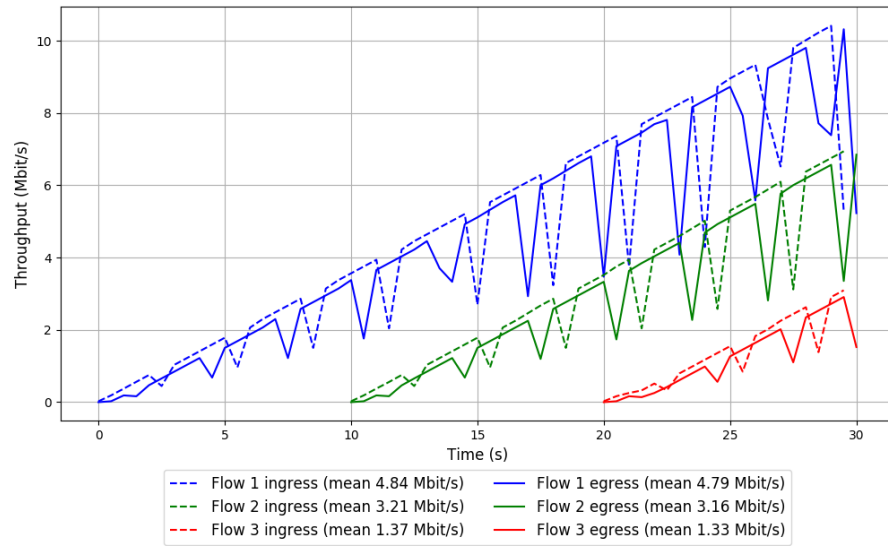
-- Flow 3:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 136.794 ms

Loss rate: 5.85%

## Run 8: Report of LEDBAT — Data Link



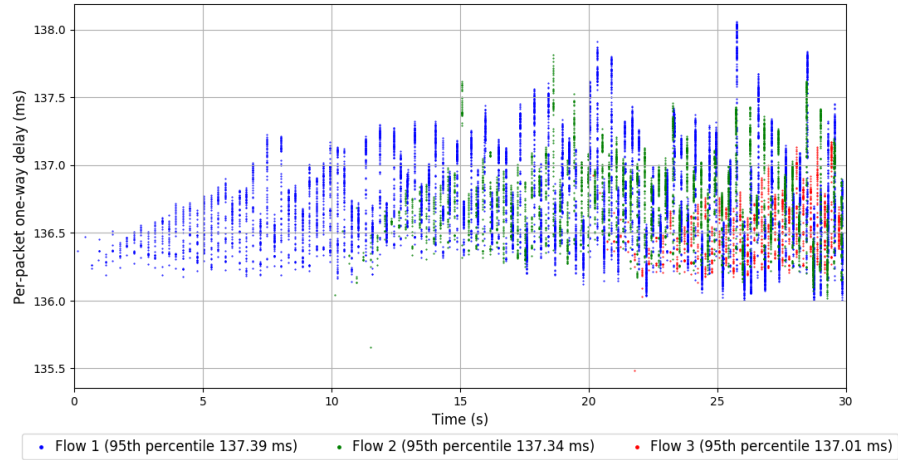
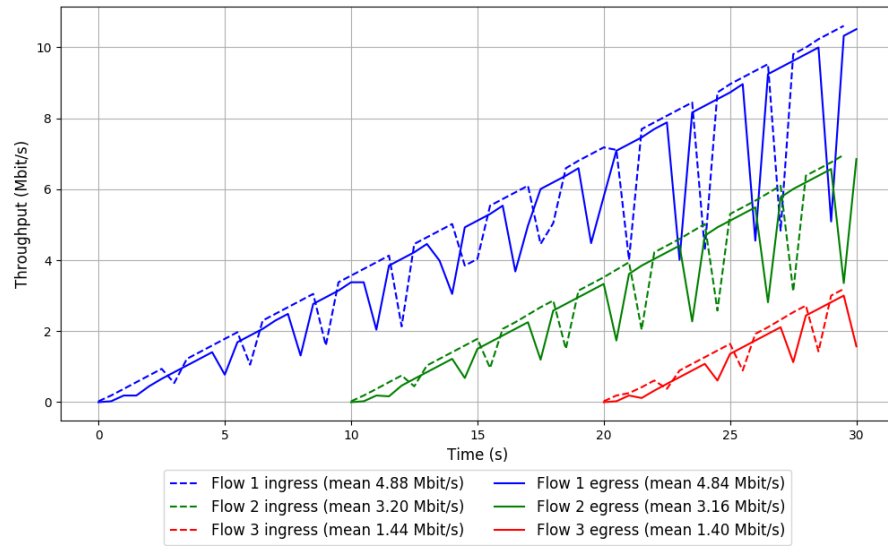
Run 9: Statistics of LEDBAT

Start at: 2018-07-11 18:25:42  
End at: 2018-07-11 18:26:12  
Local clock offset: -0.125 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-07-11 20:45:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.38 Mbit/s  
95th percentile per-packet one-way delay: 137.353 ms  
Loss rate: 2.33%  
-- Flow 1:  
Average throughput: 4.84 Mbit/s  
95th percentile per-packet one-way delay: 137.388 ms  
Loss rate: 1.82%  
-- Flow 2:  
Average throughput: 3.16 Mbit/s  
95th percentile per-packet one-way delay: 137.336 ms  
Loss rate: 2.75%  
-- Flow 3:  
Average throughput: 1.40 Mbit/s  
95th percentile per-packet one-way delay: 137.007 ms  
Loss rate: 5.71%



## Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-11 18:52:33

End at: 2018-07-11 18:53:03

Local clock offset: -0.057 ms

Remote clock offset: 0.331 ms

# Below is generated by plot.py at 2018-07-11 20:45:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 2.61%

-- Flow 1:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 136.945 ms

Loss rate: 2.11%

-- Flow 2:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 136.841 ms

Loss rate: 2.75%

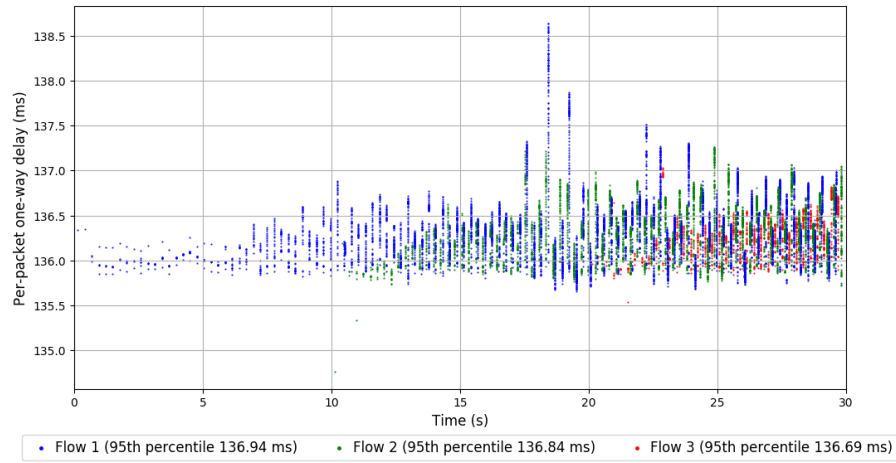
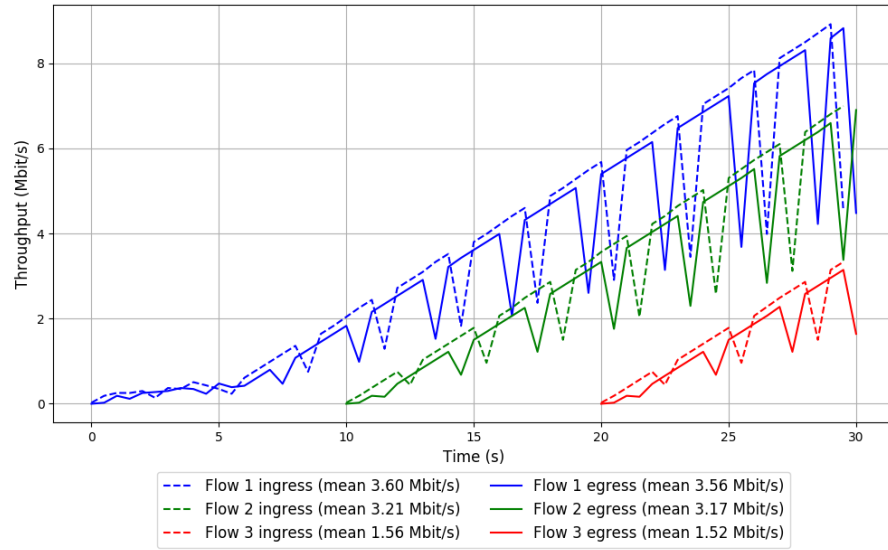
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 136.691 ms

Loss rate: 5.51%

## Run 10: Report of LEDBAT — Data Link

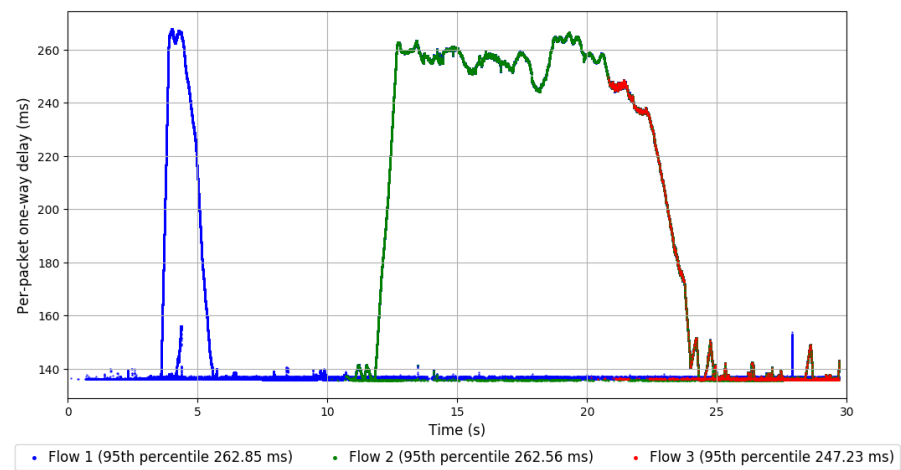
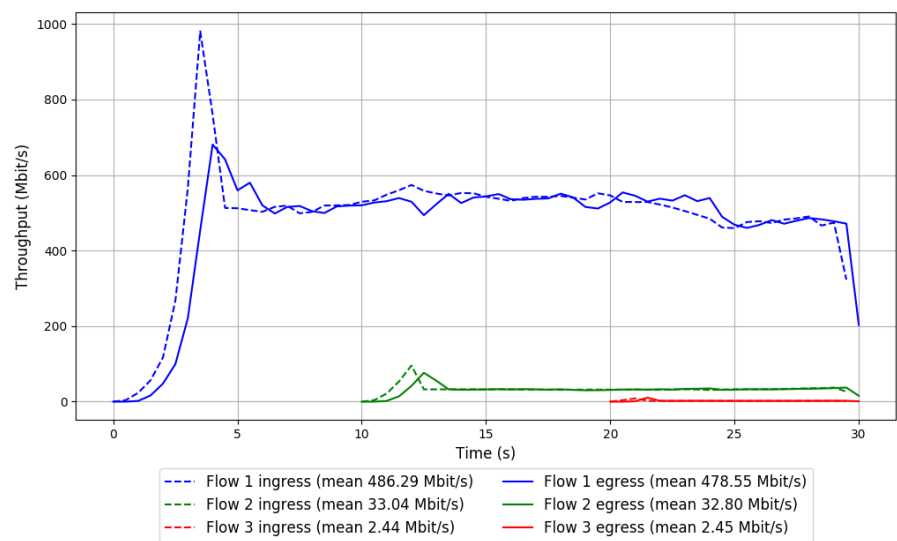


Run 1: Statistics of PCC-Allegro

Start at: 2018-07-11 15:01:26  
End at: 2018-07-11 15:01:56  
Local clock offset: -0.028 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-07-11 20:45:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 501.05 Mbit/s  
95th percentile per-packet one-way delay: 262.823 ms  
Loss rate: 2.47%  
-- Flow 1:  
Average throughput: 478.55 Mbit/s  
95th percentile per-packet one-way delay: 262.849 ms  
Loss rate: 2.49%  
-- Flow 2:  
Average throughput: 32.80 Mbit/s  
95th percentile per-packet one-way delay: 262.564 ms  
Loss rate: 2.09%  
-- Flow 3:  
Average throughput: 2.45 Mbit/s  
95th percentile per-packet one-way delay: 247.232 ms  
Loss rate: 2.59%

Run 1: Report of PCC-Allegro — Data Link

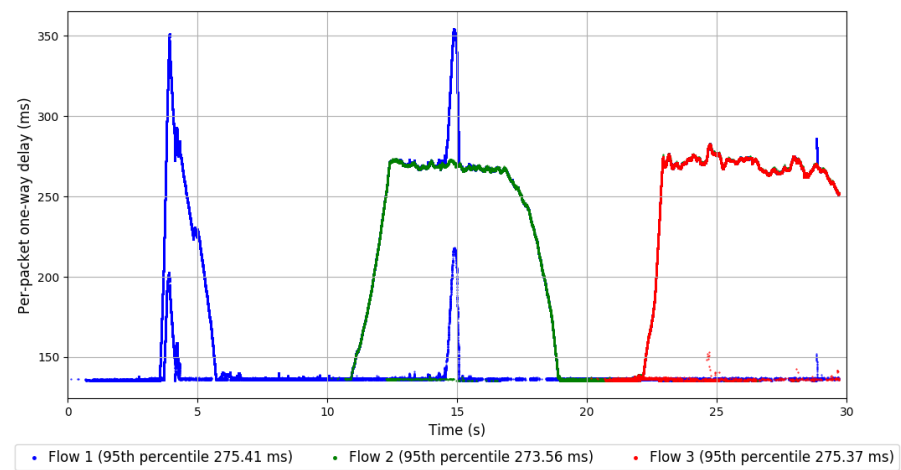
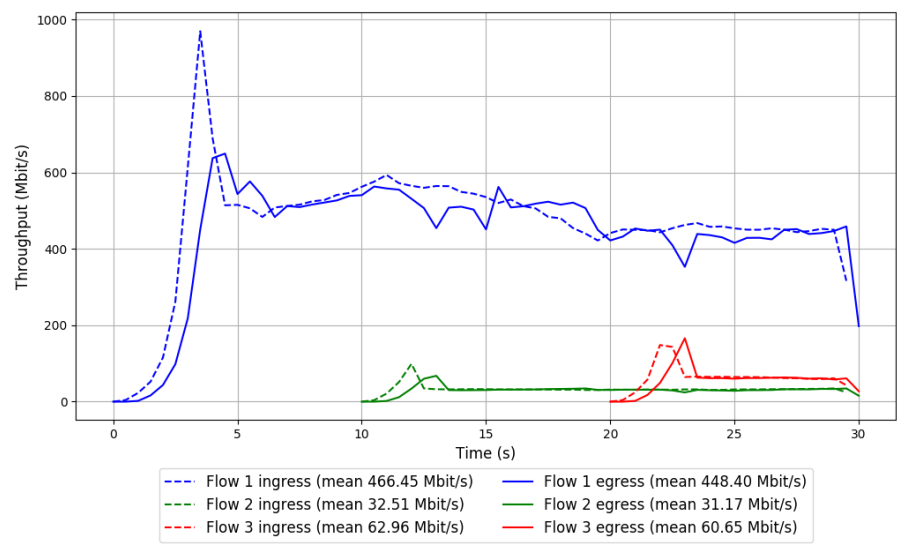


Run 2: Statistics of PCC-Allegro

Start at: 2018-07-11 15:28:09  
End at: 2018-07-11 15:28:39  
Local clock offset: -0.001 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-07-11 20:45:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 488.64 Mbit/s  
95th percentile per-packet one-way delay: 275.274 ms  
Loss rate: 4.84%  
-- Flow 1:  
Average throughput: 448.40 Mbit/s  
95th percentile per-packet one-way delay: 275.411 ms  
Loss rate: 4.75%  
-- Flow 2:  
Average throughput: 31.17 Mbit/s  
95th percentile per-packet one-way delay: 273.555 ms  
Loss rate: 5.46%  
-- Flow 3:  
Average throughput: 60.65 Mbit/s  
95th percentile per-packet one-way delay: 275.370 ms  
Loss rate: 6.34%

Run 2: Report of PCC-Allegro — Data Link



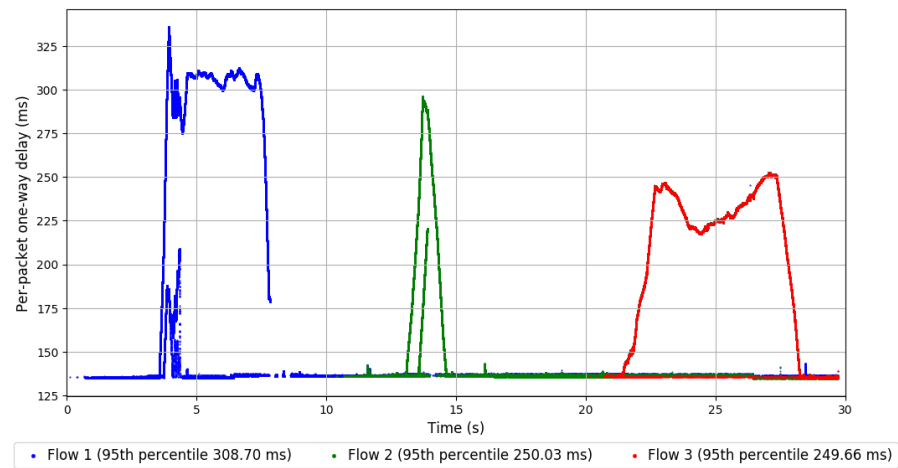
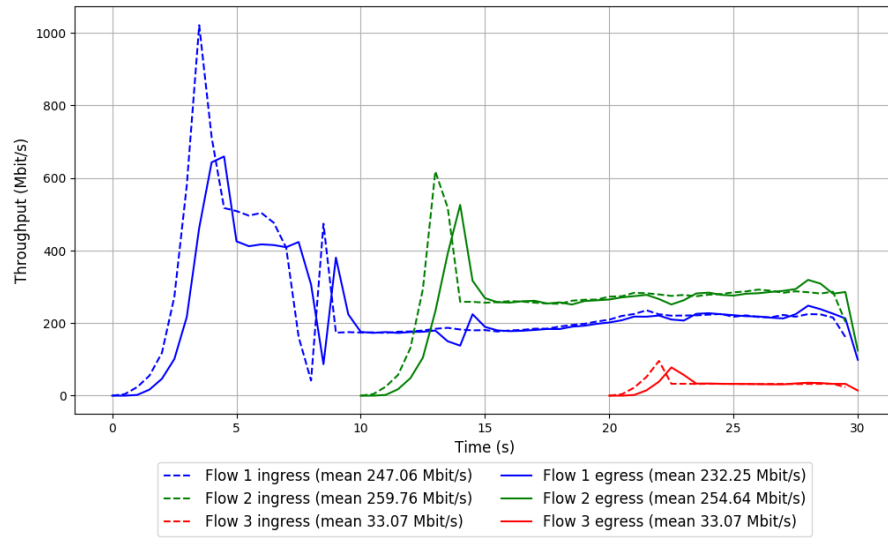
Run 3: Statistics of PCC-Allegro

Start at: 2018-07-11 15:54:57  
End at: 2018-07-11 15:55:27  
Local clock offset: -0.206 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-07-11 20:46:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.43 Mbit/s  
95th percentile per-packet one-way delay: 307.369 ms  
Loss rate: 5.33%  
-- Flow 1:  
Average throughput: 232.25 Mbit/s  
95th percentile per-packet one-way delay: 308.701 ms  
Loss rate: 6.84%  
-- Flow 2:  
Average throughput: 254.64 Mbit/s  
95th percentile per-packet one-way delay: 250.025 ms  
Loss rate: 3.32%  
-- Flow 3:  
Average throughput: 33.07 Mbit/s  
95th percentile per-packet one-way delay: 249.665 ms  
Loss rate: 2.77%



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

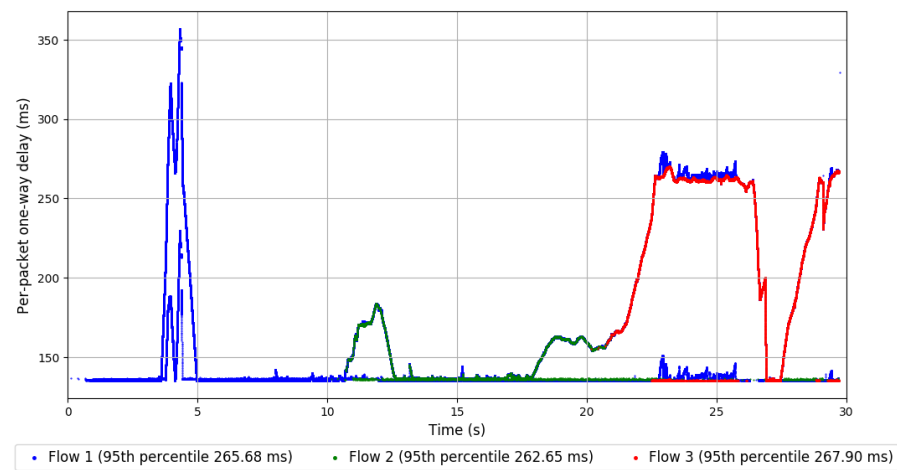
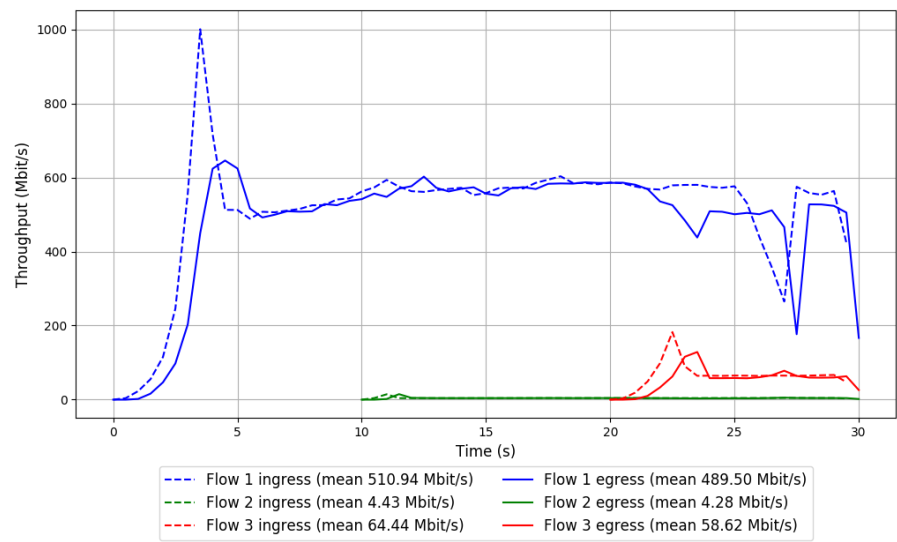


Run 4: Statistics of PCC-Allegro

Start at: 2018-07-11 16:21:22  
End at: 2018-07-11 16:21:52  
Local clock offset: -0.12 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-07-11 20:48:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 511.25 Mbit/s  
95th percentile per-packet one-way delay: 265.790 ms  
Loss rate: 5.29%  
-- Flow 1:  
Average throughput: 489.50 Mbit/s  
95th percentile per-packet one-way delay: 265.682 ms  
Loss rate: 5.02%  
-- Flow 2:  
Average throughput: 4.28 Mbit/s  
95th percentile per-packet one-way delay: 262.646 ms  
Loss rate: 4.67%  
-- Flow 3:  
Average throughput: 58.62 Mbit/s  
95th percentile per-packet one-way delay: 267.903 ms  
Loss rate: 11.72%

Run 4: Report of PCC-Allegro — Data Link

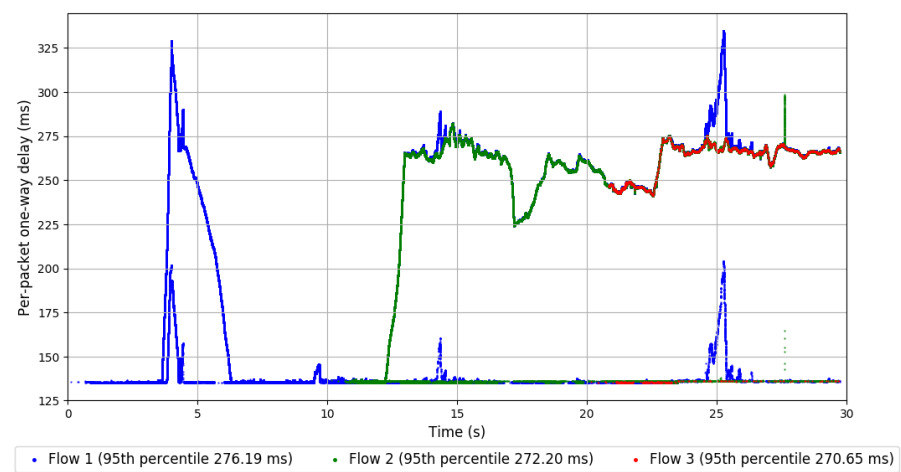
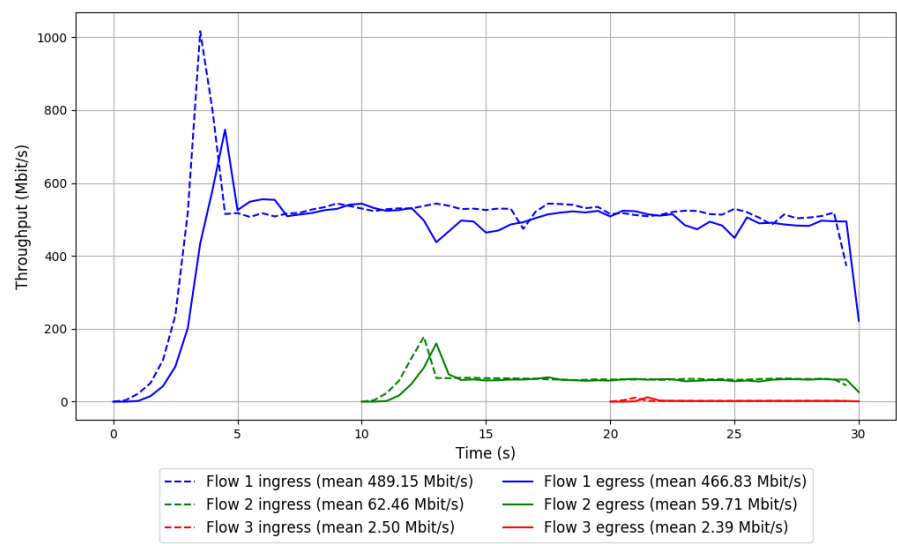


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-11 16:48:40  
End at: 2018-07-11 16:49:10  
Local clock offset: -0.045 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-07-11 20:48:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 507.11 Mbit/s  
95th percentile per-packet one-way delay: 275.260 ms  
Loss rate: 5.46%  
-- Flow 1:  
Average throughput: 466.83 Mbit/s  
95th percentile per-packet one-way delay: 276.186 ms  
Loss rate: 5.44%  
-- Flow 2:  
Average throughput: 59.71 Mbit/s  
95th percentile per-packet one-way delay: 272.202 ms  
Loss rate: 5.72%  
-- Flow 3:  
Average throughput: 2.39 Mbit/s  
95th percentile per-packet one-way delay: 270.651 ms  
Loss rate: 7.03%

Run 5: Report of PCC-Allegro — Data Link

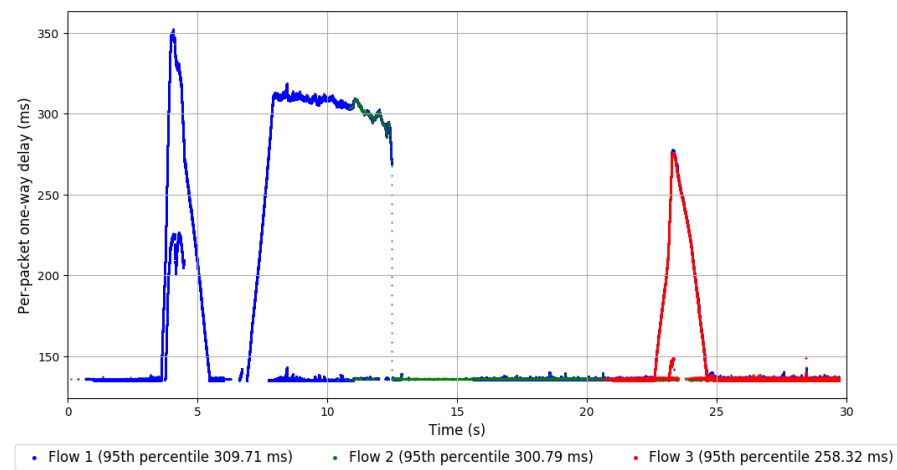
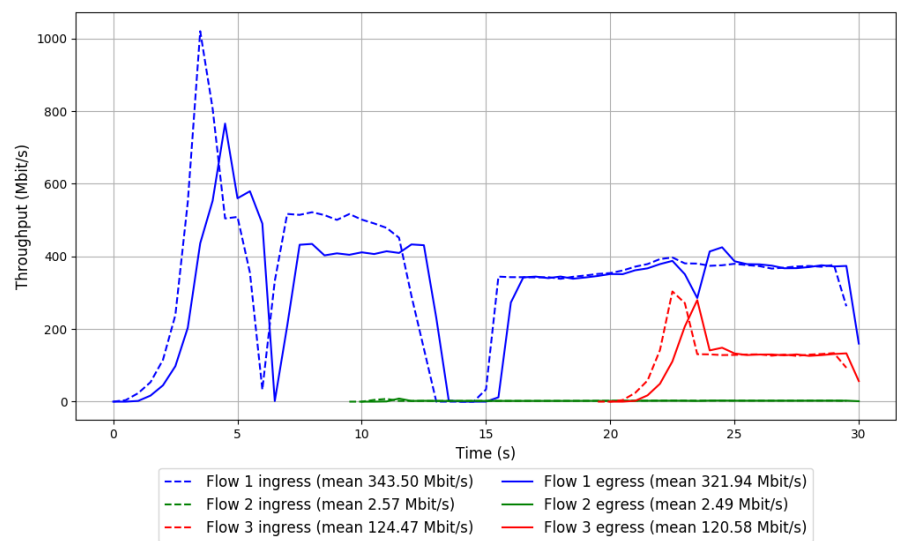


Run 6: Statistics of PCC-Allegro

Start at: 2018-07-11 17:15:22  
End at: 2018-07-11 17:15:52  
Local clock offset: -0.2 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-07-11 20:49:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 362.58 Mbit/s  
95th percentile per-packet one-way delay: 309.437 ms  
Loss rate: 6.98%  
-- Flow 1:  
Average throughput: 321.94 Mbit/s  
95th percentile per-packet one-way delay: 309.715 ms  
Loss rate: 7.14%  
-- Flow 2:  
Average throughput: 2.49 Mbit/s  
95th percentile per-packet one-way delay: 300.791 ms  
Loss rate: 4.30%  
-- Flow 3:  
Average throughput: 120.58 Mbit/s  
95th percentile per-packet one-way delay: 258.319 ms  
Loss rate: 5.81%

Run 6: Report of PCC-Allegro — Data Link



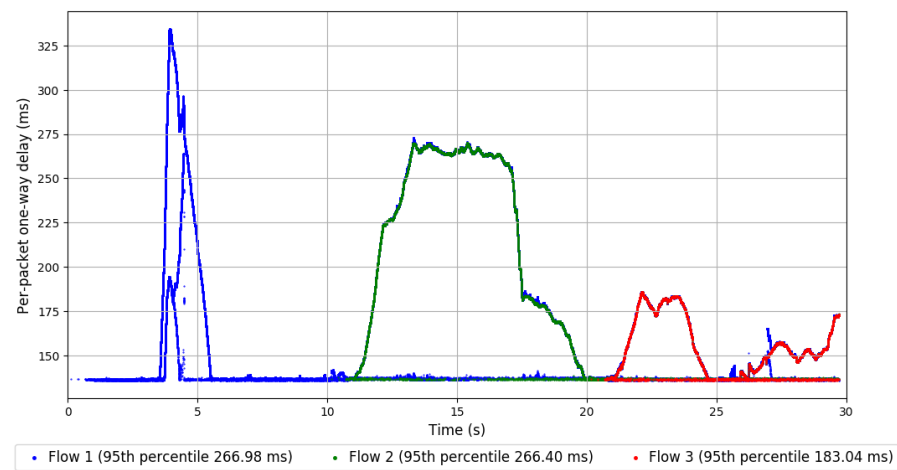
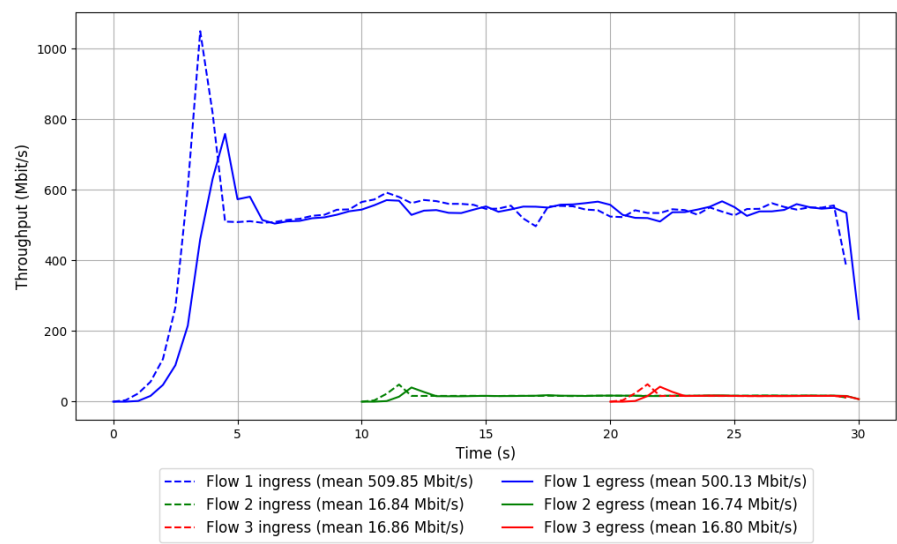
Run 7: Statistics of PCC-Allegro

Start at: 2018-07-11 17:42:03  
End at: 2018-07-11 17:42:33  
Local clock offset: 0.108 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-07-11 20:52:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 516.61 Mbit/s  
95th percentile per-packet one-way delay: 266.923 ms  
Loss rate: 2.79%  
-- Flow 1:  
Average throughput: 500.13 Mbit/s  
95th percentile per-packet one-way delay: 266.983 ms  
Loss rate: 2.81%  
-- Flow 2:  
Average throughput: 16.74 Mbit/s  
95th percentile per-packet one-way delay: 266.405 ms  
Loss rate: 1.95%  
-- Flow 3:  
Average throughput: 16.80 Mbit/s  
95th percentile per-packet one-way delay: 183.042 ms  
Loss rate: 3.10%



Run 7: Report of PCC-Allegro — Data Link

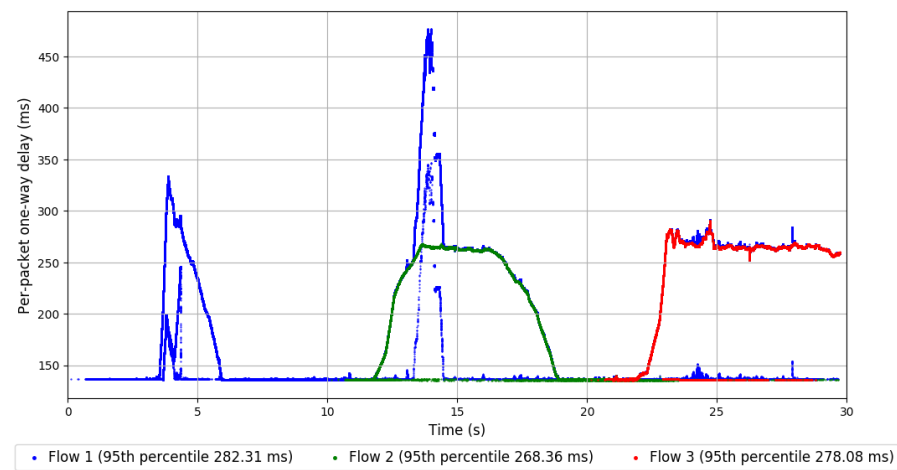
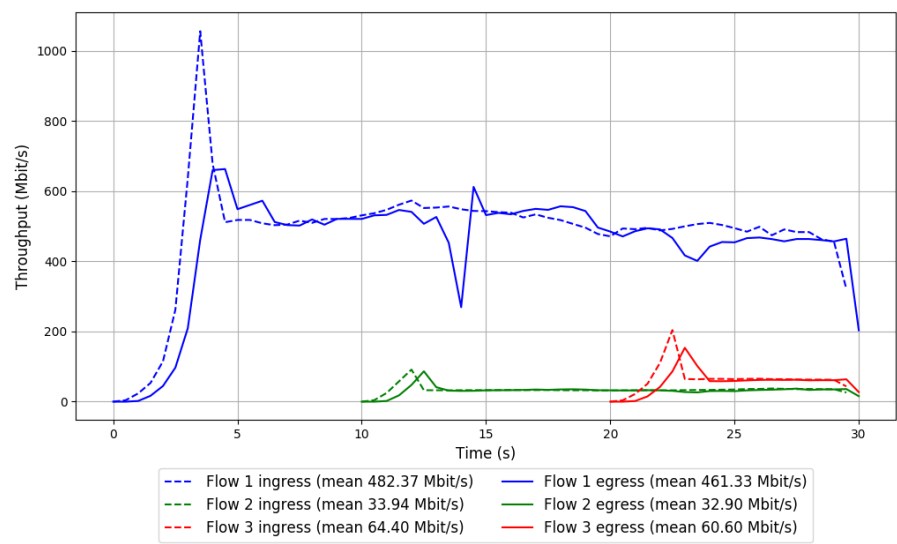


Run 8: Statistics of PCC-Allegro

Start at: 2018-07-11 18:08:50  
End at: 2018-07-11 18:09:20  
Local clock offset: 0.194 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-07-11 20:52:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 502.68 Mbit/s  
95th percentile per-packet one-way delay: 281.220 ms  
Loss rate: 5.33%  
-- Flow 1:  
Average throughput: 461.33 Mbit/s  
95th percentile per-packet one-way delay: 282.307 ms  
Loss rate: 5.24%  
-- Flow 2:  
Average throughput: 32.90 Mbit/s  
95th percentile per-packet one-way delay: 268.360 ms  
Loss rate: 4.41%  
-- Flow 3:  
Average throughput: 60.60 Mbit/s  
95th percentile per-packet one-way delay: 278.076 ms  
Loss rate: 8.49%

Run 8: Report of PCC-Allegro — Data Link

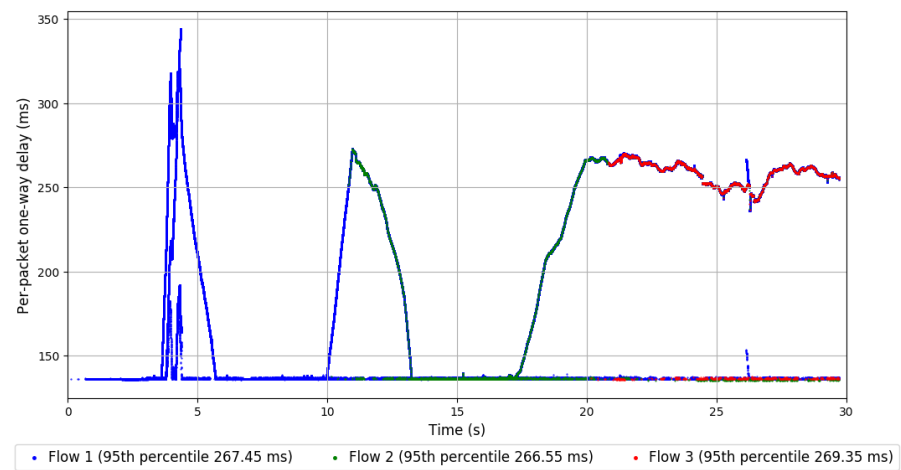
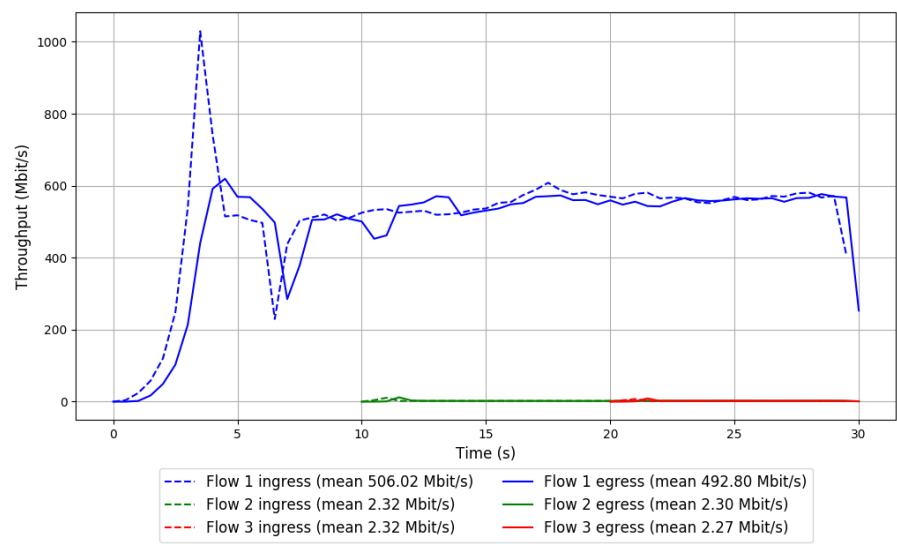


Run 9: Statistics of PCC-Allegro

Start at: 2018-07-11 18:35:41  
End at: 2018-07-11 18:36:11  
Local clock offset: -0.058 ms  
Remote clock offset: -0.079 ms

```
# Below is generated by plot.py at 2018-07-11 20:53:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 495.04 Mbit/s
95th percentile per-packet one-way delay: 267.459 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 492.80 Mbit/s
95th percentile per-packet one-way delay: 267.454 ms
Loss rate: 3.50%
-- Flow 2:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 266.549 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 269.348 ms
Loss rate: 4.82%
```

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-11 19:02:26

End at: 2018-07-11 19:02:56

Local clock offset: -0.105 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-07-11 20:54:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 513.87 Mbit/s

95th percentile per-packet one-way delay: 268.118 ms

Loss rate: 4.06%

-- Flow 1:

Average throughput: 482.75 Mbit/s

95th percentile per-packet one-way delay: 268.111 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 31.03 Mbit/s

95th percentile per-packet one-way delay: 267.506 ms

Loss rate: 4.13%

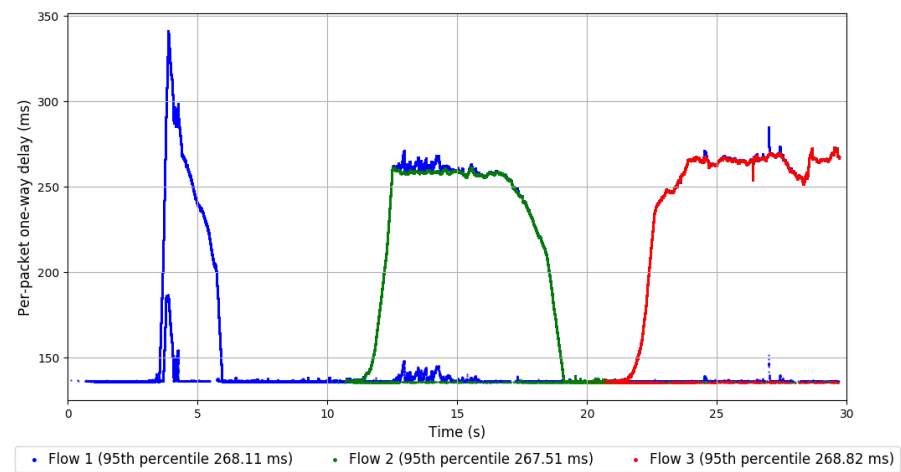
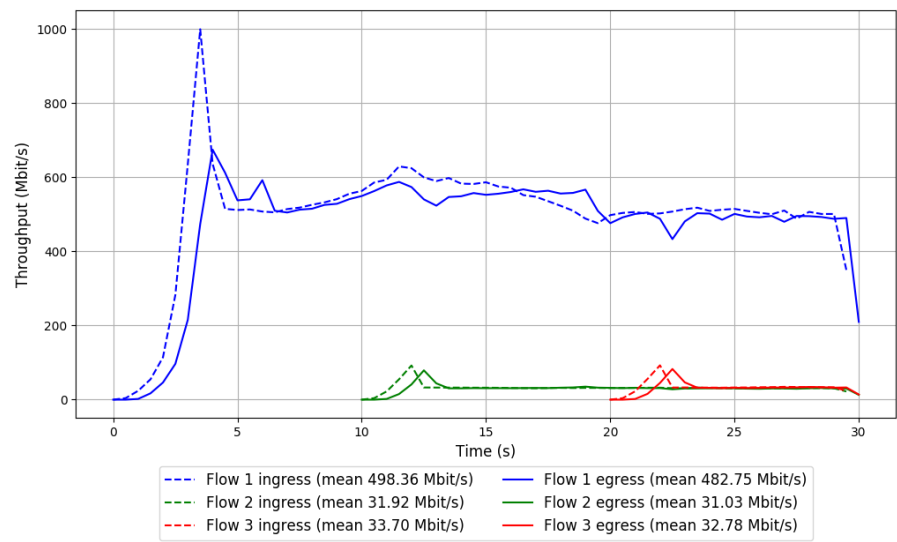
-- Flow 3:

Average throughput: 32.78 Mbit/s

95th percentile per-packet one-way delay: 268.820 ms

Loss rate: 5.44%

Run 10: Report of PCC-Allegro — Data Link



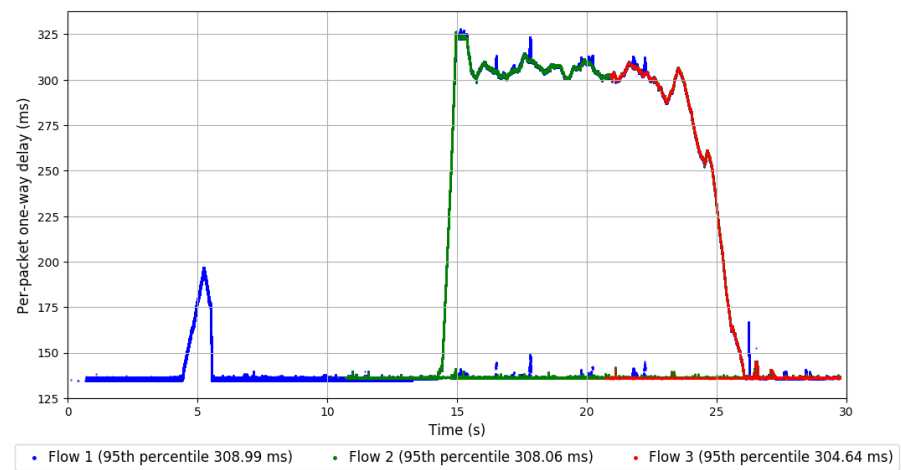
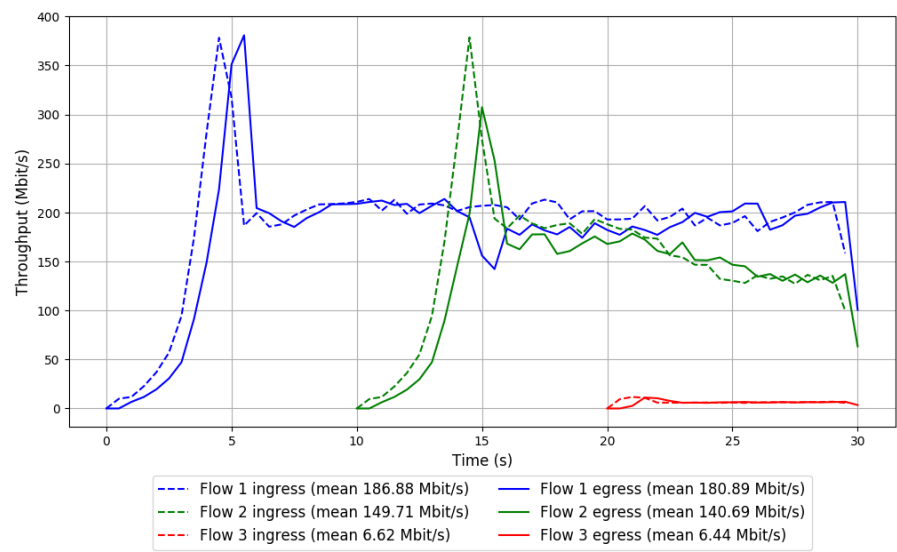
```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-11 14:42:30
End at: 2018-07-11 14:43:00
Local clock offset: 0.035 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-07-11 20:55:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.08 Mbit/s
95th percentile per-packet one-way delay: 308.695 ms
Loss rate: 5.21%
-- Flow 1:
Average throughput: 180.89 Mbit/s
95th percentile per-packet one-way delay: 308.988 ms
Loss rate: 4.09%
-- Flow 2:
Average throughput: 140.69 Mbit/s
95th percentile per-packet one-way delay: 308.063 ms
Loss rate: 7.32%
-- Flow 3:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 304.639 ms
Loss rate: 5.44%
```



Run 1: Report of PCC-Expr — Data Link

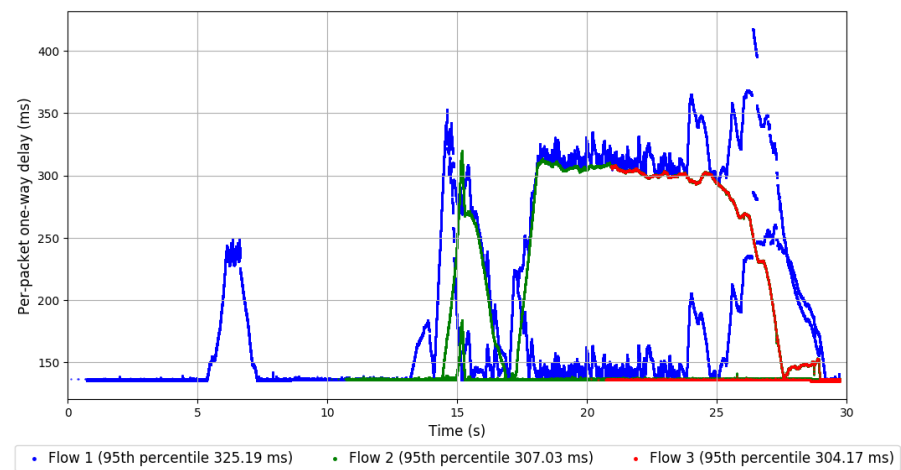
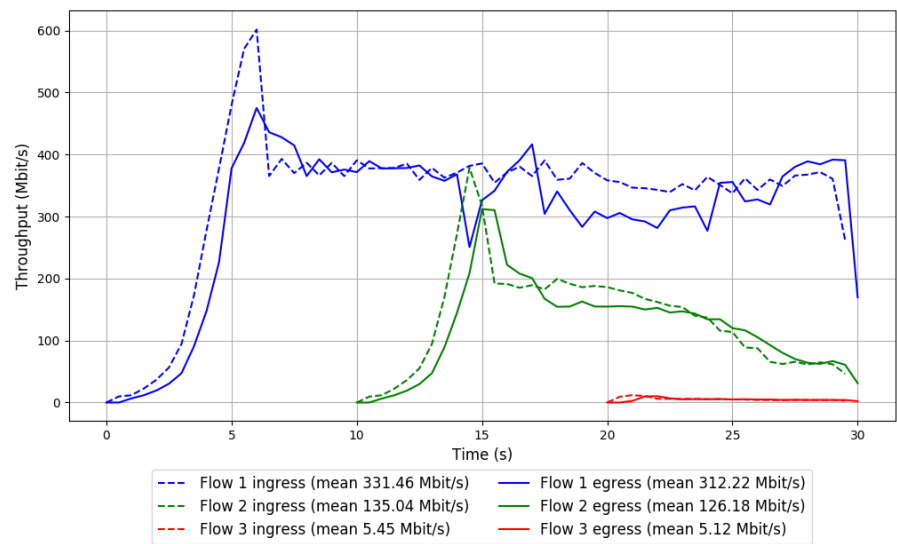


Run 2: Statistics of PCC-Expr

Start at: 2018-07-11 15:09:35  
End at: 2018-07-11 15:10:05  
Local clock offset: -0.14 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-07-11 21:00:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 397.39 Mbit/s  
95th percentile per-packet one-way delay: 319.661 ms  
Loss rate: 6.93%  
-- Flow 1:  
Average throughput: 312.22 Mbit/s  
95th percentile per-packet one-way delay: 325.189 ms  
Loss rate: 6.67%  
-- Flow 2:  
Average throughput: 126.18 Mbit/s  
95th percentile per-packet one-way delay: 307.027 ms  
Loss rate: 7.85%  
-- Flow 3:  
Average throughput: 5.12 Mbit/s  
95th percentile per-packet one-way delay: 304.174 ms  
Loss rate: 8.61%

Run 2: Report of PCC-Expr — Data Link

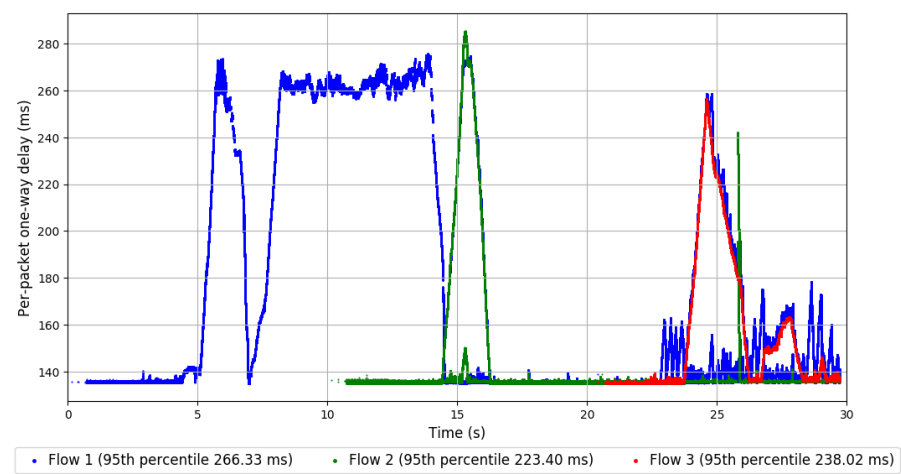
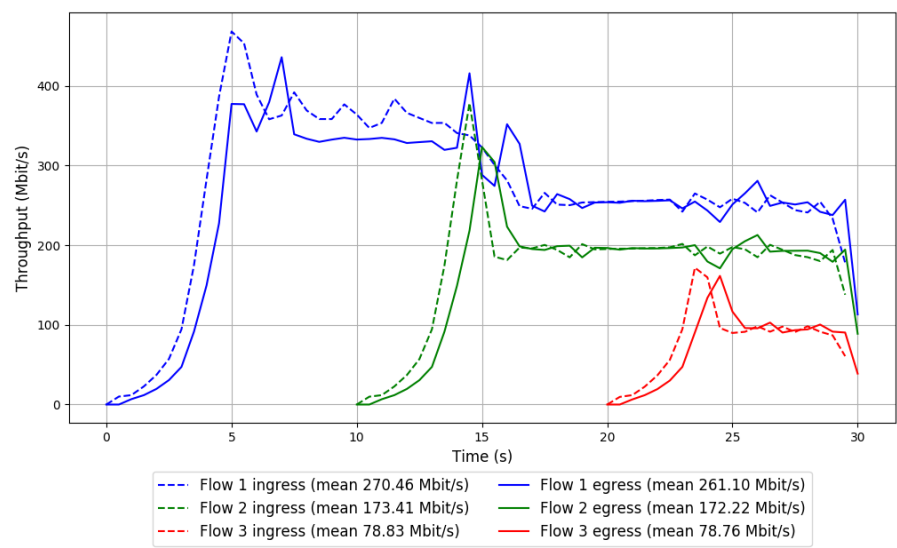


Run 3: Statistics of PCC-Expr

Start at: 2018-07-11 15:36:18  
End at: 2018-07-11 15:36:48  
Local clock offset: -0.266 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-07-11 21:00:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 400.64 Mbit/s  
95th percentile per-packet one-way delay: 265.241 ms  
Loss rate: 3.61%  
-- Flow 1:  
Average throughput: 261.10 Mbit/s  
95th percentile per-packet one-way delay: 266.328 ms  
Loss rate: 4.34%  
-- Flow 2:  
Average throughput: 172.22 Mbit/s  
95th percentile per-packet one-way delay: 223.395 ms  
Loss rate: 2.05%  
-- Flow 3:  
Average throughput: 78.76 Mbit/s  
95th percentile per-packet one-way delay: 238.020 ms  
Loss rate: 2.85%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-11 16:03:02

End at: 2018-07-11 16:03:32

Local clock offset: -0.054 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-07-11 21:00:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 320.19 Mbit/s

95th percentile per-packet one-way delay: 165.183 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 180.66 Mbit/s

95th percentile per-packet one-way delay: 161.156 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 171.62 Mbit/s

95th percentile per-packet one-way delay: 170.071 ms

Loss rate: 1.51%

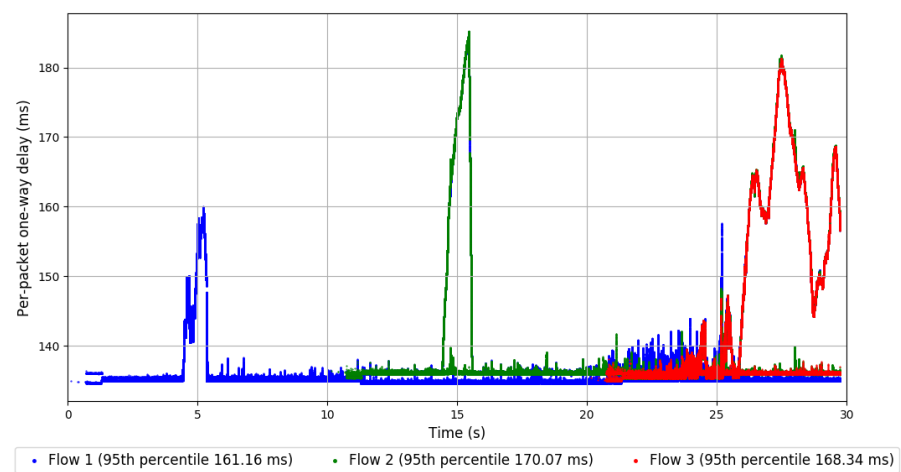
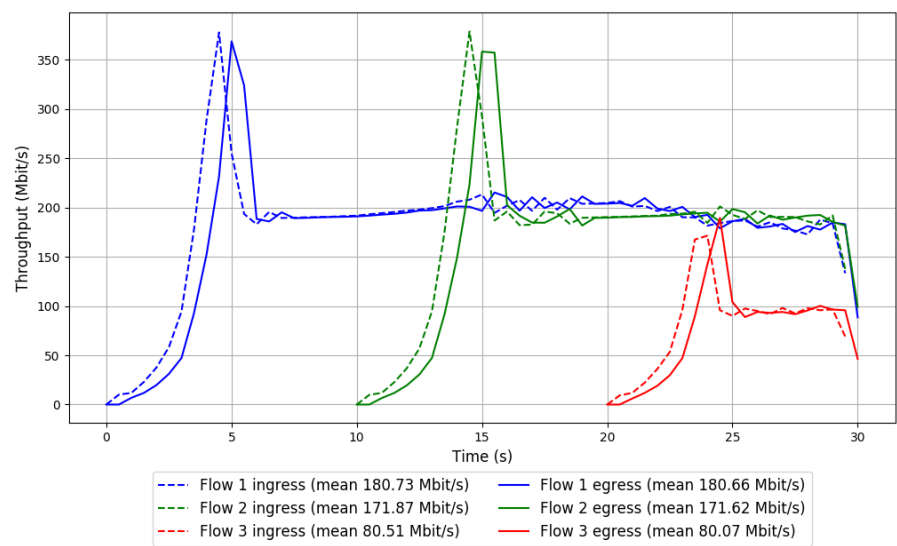
-- Flow 3:

Average throughput: 80.07 Mbit/s

95th percentile per-packet one-way delay: 168.343 ms

Loss rate: 3.31%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-11 16:29:31

End at: 2018-07-11 16:30:01

Local clock offset: -0.057 ms

Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2018-07-11 21:06:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 399.56 Mbit/s

95th percentile per-packet one-way delay: 260.683 ms

Loss rate: 3.14%

-- Flow 1:

Average throughput: 258.75 Mbit/s

95th percentile per-packet one-way delay: 261.506 ms

Loss rate: 3.75%

-- Flow 2:

Average throughput: 172.55 Mbit/s

95th percentile per-packet one-way delay: 181.738 ms

Loss rate: 1.66%

-- Flow 3:

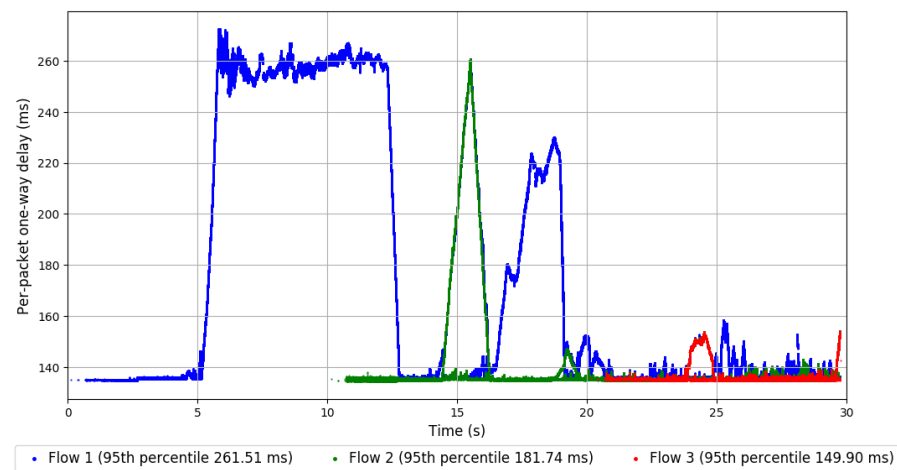
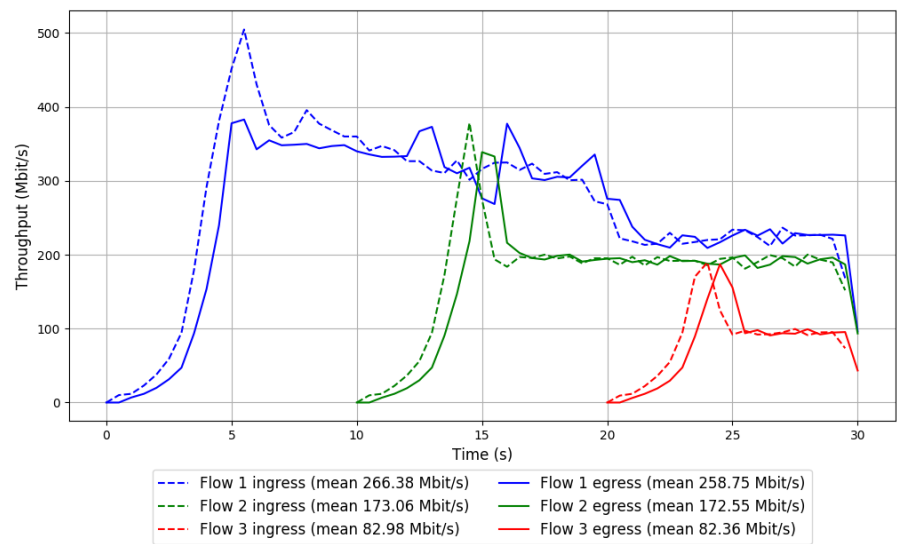
Average throughput: 82.36 Mbit/s

95th percentile per-packet one-way delay: 149.899 ms

Loss rate: 3.41%



Run 5: Report of PCC-Expr — Data Link

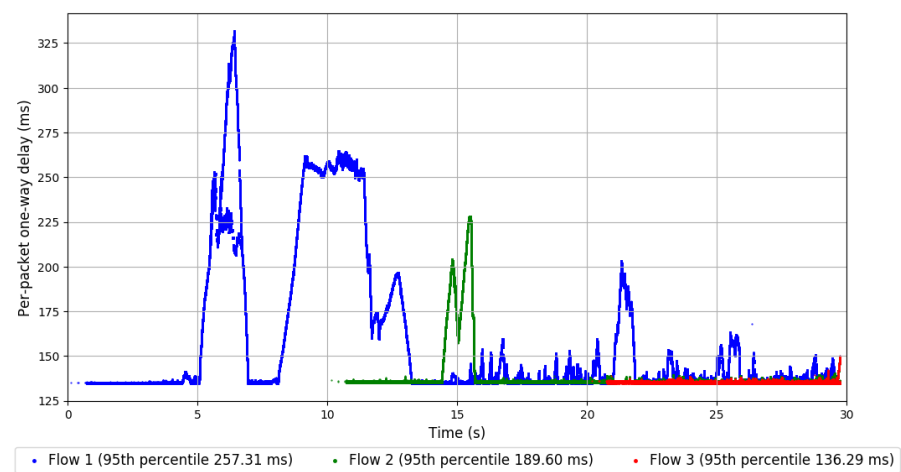
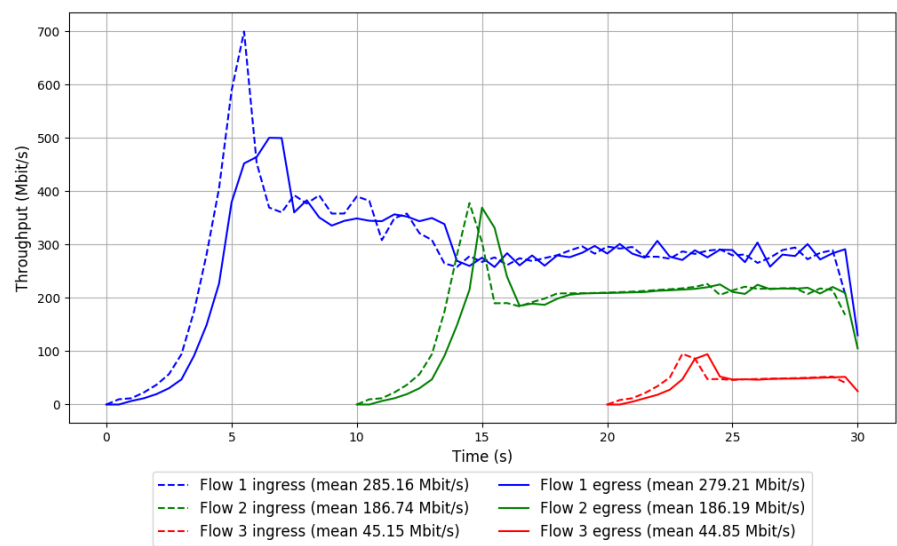


Run 6: Statistics of PCC-Expr

Start at: 2018-07-11 16:56:50  
End at: 2018-07-11 16:57:20  
Local clock offset: -0.186 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-07-11 21:06:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 416.93 Mbit/s  
95th percentile per-packet one-way delay: 255.367 ms  
Loss rate: 2.61%  
-- Flow 1:  
Average throughput: 279.21 Mbit/s  
95th percentile per-packet one-way delay: 257.307 ms  
Loss rate: 2.98%  
-- Flow 2:  
Average throughput: 186.19 Mbit/s  
95th percentile per-packet one-way delay: 189.597 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 44.85 Mbit/s  
95th percentile per-packet one-way delay: 136.295 ms  
Loss rate: 3.43%

Run 6: Report of PCC-Expr — Data Link

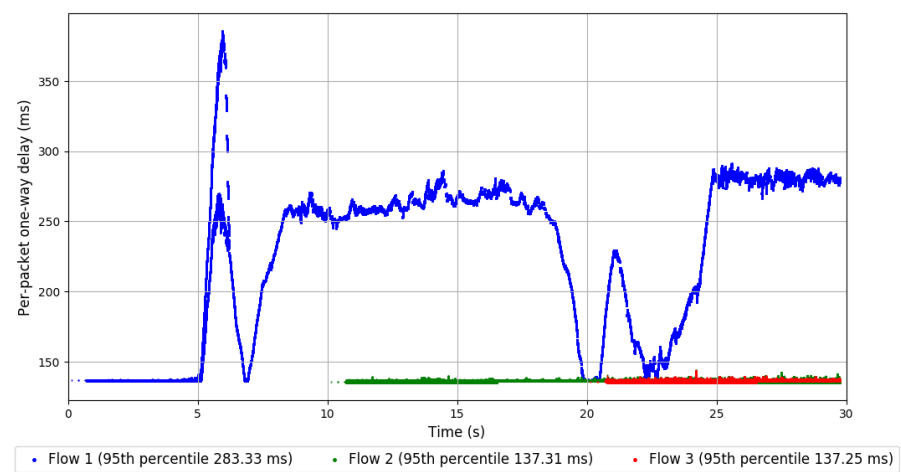
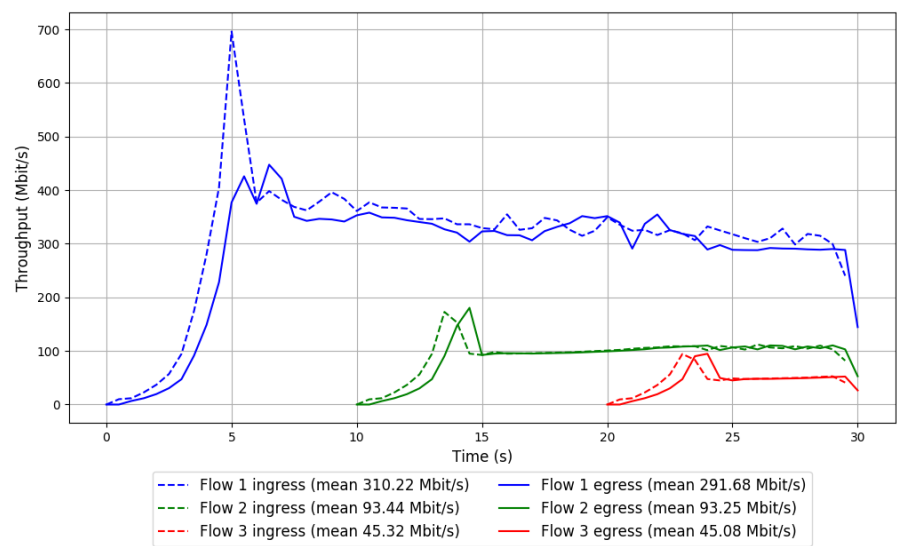


Run 7: Statistics of PCC-Expr

Start at: 2018-07-11 17:23:27  
End at: 2018-07-11 17:23:57  
Local clock offset: -0.164 ms  
Remote clock offset: -0.463 ms

# Below is generated by plot.py at 2018-07-11 21:06:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 368.01 Mbit/s  
95th percentile per-packet one-way delay: 282.624 ms  
Loss rate: 5.85%  
-- Flow 1:  
Average throughput: 291.68 Mbit/s  
95th percentile per-packet one-way delay: 283.333 ms  
Loss rate: 6.84%  
-- Flow 2:  
Average throughput: 93.25 Mbit/s  
95th percentile per-packet one-way delay: 137.309 ms  
Loss rate: 1.57%  
-- Flow 3:  
Average throughput: 45.08 Mbit/s  
95th percentile per-packet one-way delay: 137.248 ms  
Loss rate: 3.26%

Run 7: Report of PCC-Expr — Data Link

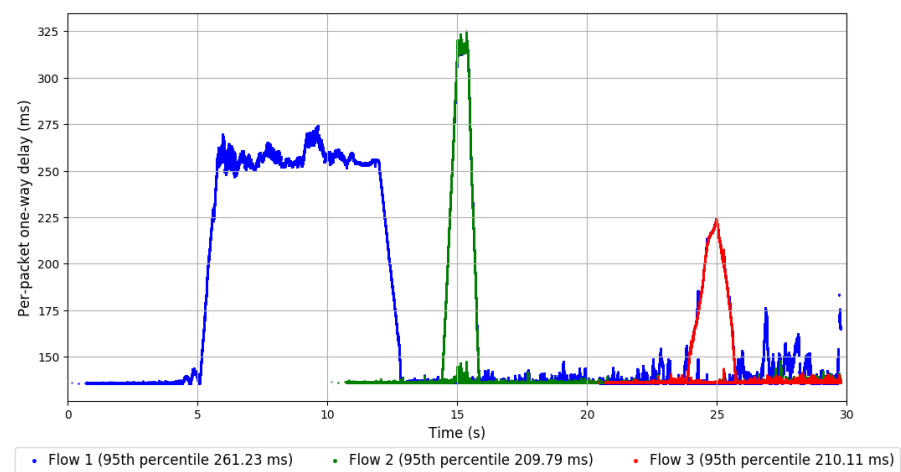
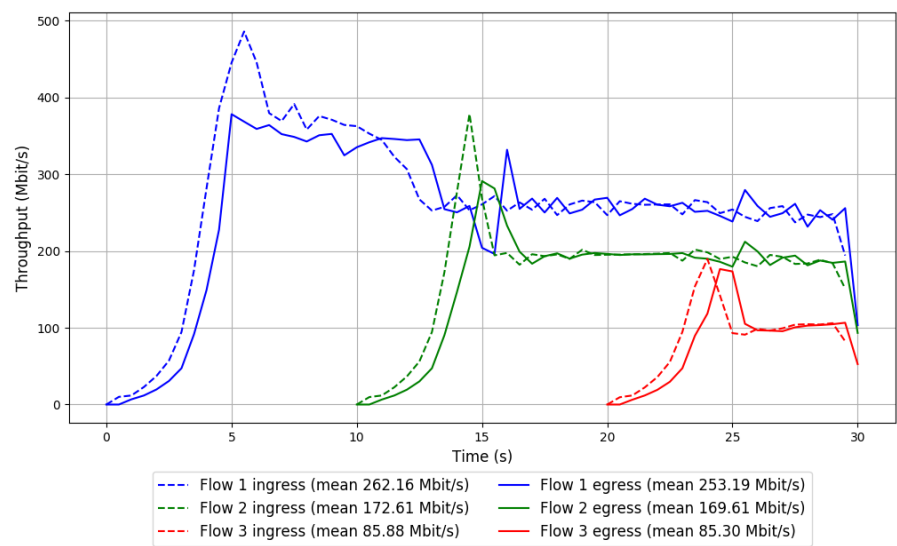


Run 8: Statistics of PCC-Expr

Start at: 2018-07-11 17:50:13  
End at: 2018-07-11 17:50:43  
Local clock offset: -0.005 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-07-11 21:08:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 393.11 Mbit/s  
95th percentile per-packet one-way delay: 259.655 ms  
Loss rate: 3.90%  
-- Flow 1:  
Average throughput: 253.19 Mbit/s  
95th percentile per-packet one-way delay: 261.232 ms  
Loss rate: 4.31%  
-- Flow 2:  
Average throughput: 169.61 Mbit/s  
95th percentile per-packet one-way delay: 209.790 ms  
Loss rate: 3.10%  
-- Flow 3:  
Average throughput: 85.30 Mbit/s  
95th percentile per-packet one-way delay: 210.106 ms  
Loss rate: 3.44%

Run 8: Report of PCC-Expr — Data Link



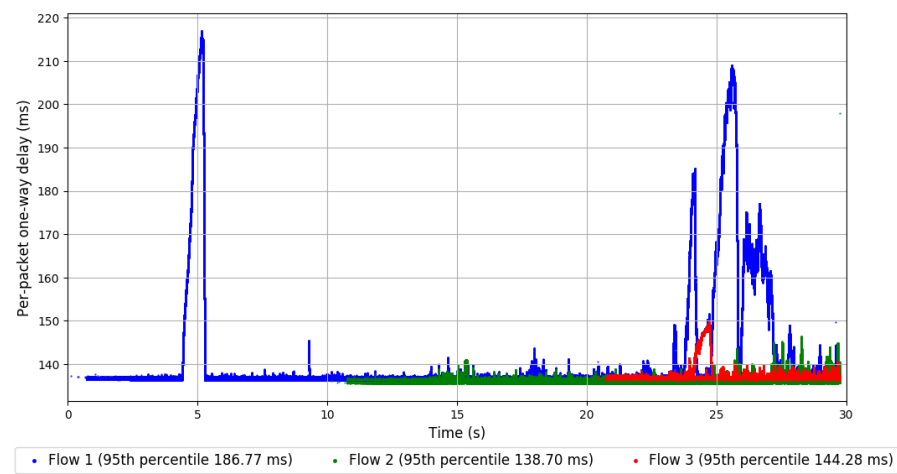
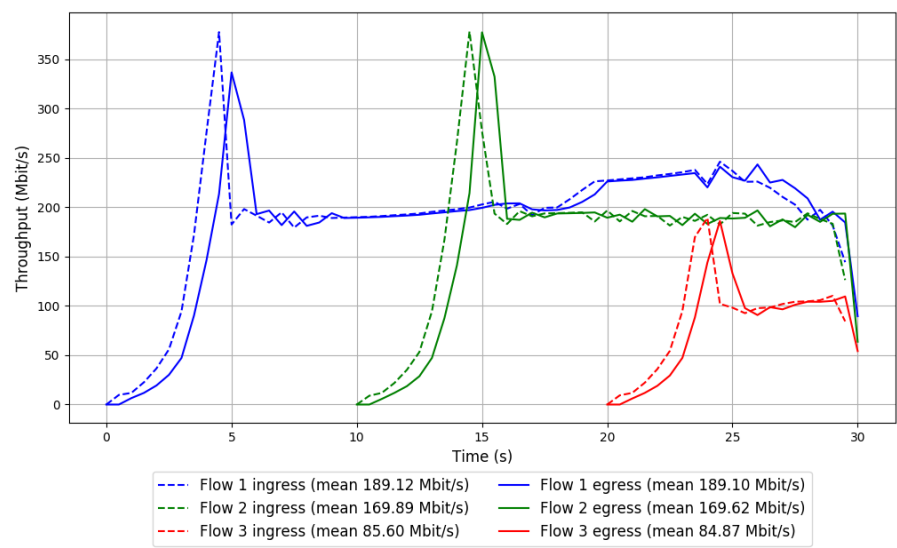
Run 9: Statistics of PCC-Expr

Start at: 2018-07-11 18:17:00  
End at: 2018-07-11 18:17:30  
Local clock offset: -0.079 ms  
Remote clock offset: -0.444 ms

# Below is generated by plot.py at 2018-07-11 21:08:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 328.87 Mbit/s  
95th percentile per-packet one-way delay: 167.477 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 189.10 Mbit/s  
95th percentile per-packet one-way delay: 186.767 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 169.62 Mbit/s  
95th percentile per-packet one-way delay: 138.698 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 84.87 Mbit/s  
95th percentile per-packet one-way delay: 144.280 ms  
Loss rate: 3.58%



Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-11 18:43:49

End at: 2018-07-11 18:44:19

Local clock offset: 0.024 ms

Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2018-07-11 21:14:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 411.93 Mbit/s

95th percentile per-packet one-way delay: 250.031 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 282.83 Mbit/s

95th percentile per-packet one-way delay: 266.227 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 173.08 Mbit/s

95th percentile per-packet one-way delay: 179.790 ms

Loss rate: 1.43%

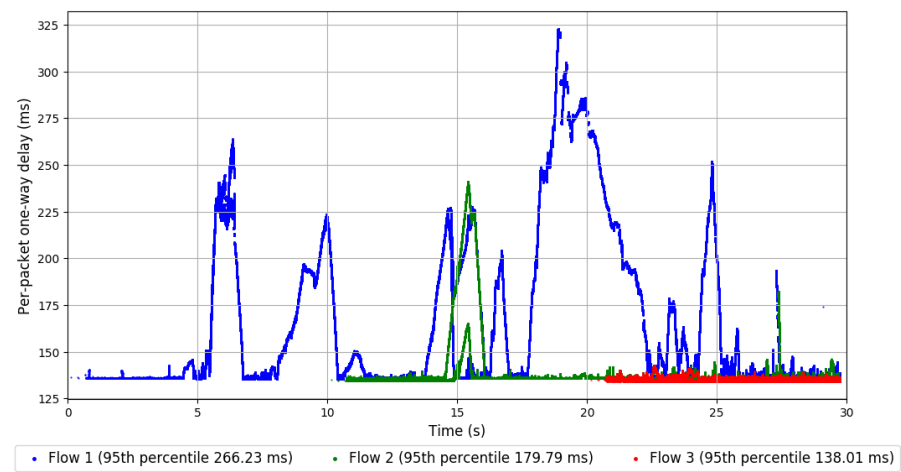
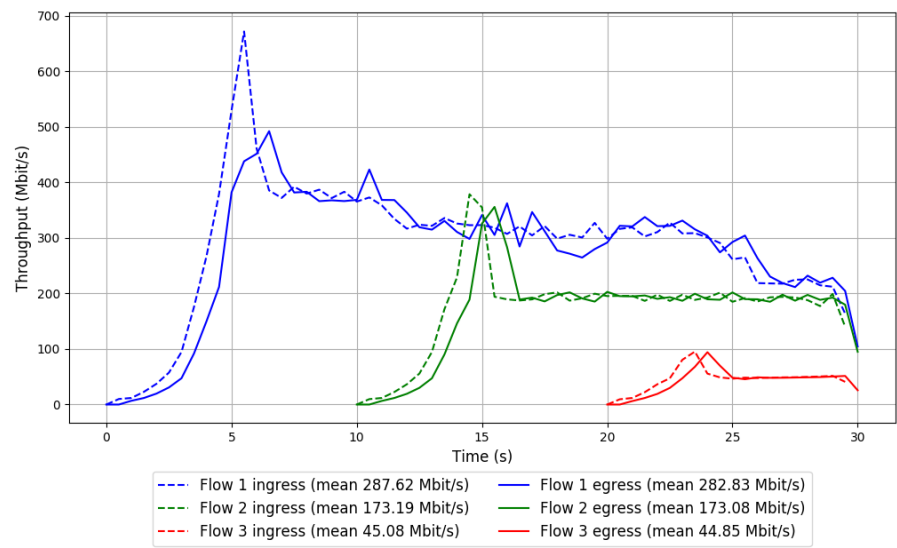
-- Flow 3:

Average throughput: 44.85 Mbit/s

95th percentile per-packet one-way delay: 138.011 ms

Loss rate: 3.28%

Run 10: Report of PCC-Expr — Data Link

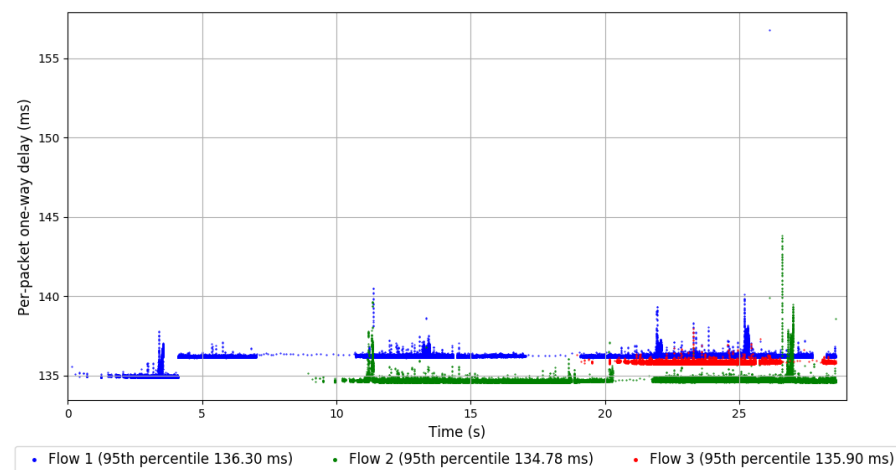
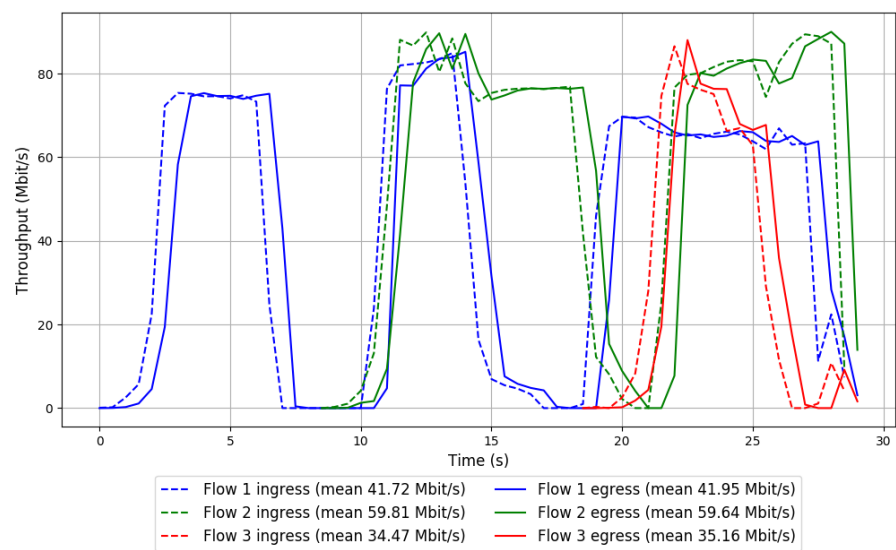


Run 1: Statistics of QUIC Cubic

Start at: 2018-07-11 14:38:38  
End at: 2018-07-11 14:39:08  
Local clock offset: 0.016 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.02 Mbit/s  
95th percentile per-packet one-way delay: 136.253 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 41.95 Mbit/s  
95th percentile per-packet one-way delay: 136.300 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 59.64 Mbit/s  
95th percentile per-packet one-way delay: 134.780 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 35.16 Mbit/s  
95th percentile per-packet one-way delay: 135.904 ms  
Loss rate: 0.77%

Run 1: Report of QUIC Cubic — Data Link

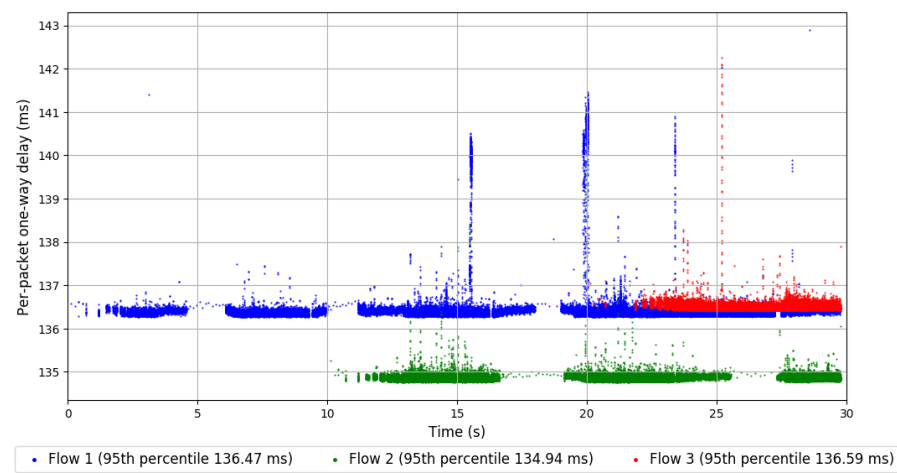
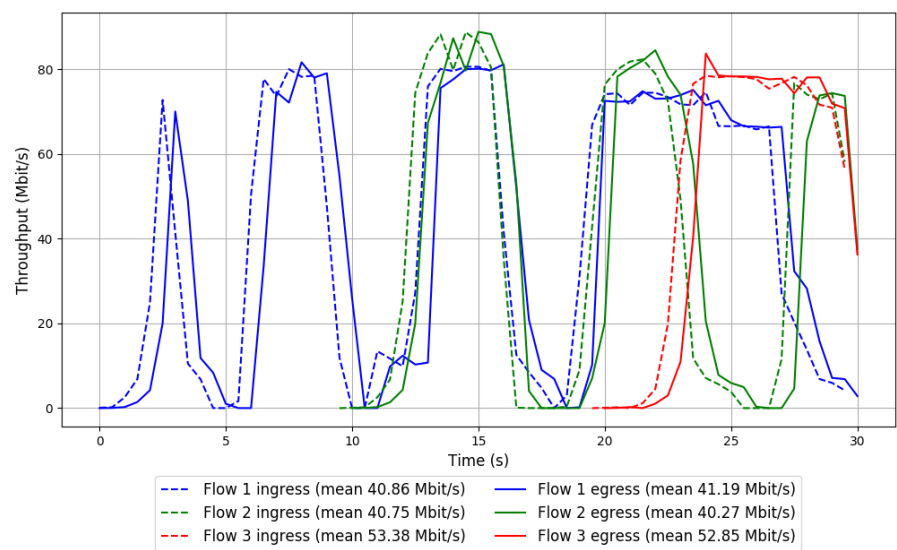


Run 2: Statistics of QUIC Cubic

Start at: 2018-07-11 15:05:43  
End at: 2018-07-11 15:06:13  
Local clock offset: 0.117 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.04 Mbit/s  
95th percentile per-packet one-way delay: 136.532 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 41.19 Mbit/s  
95th percentile per-packet one-way delay: 136.466 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 40.27 Mbit/s  
95th percentile per-packet one-way delay: 134.944 ms  
Loss rate: 2.50%  
-- Flow 3:  
Average throughput: 52.85 Mbit/s  
95th percentile per-packet one-way delay: 136.595 ms  
Loss rate: 3.73%

Run 2: Report of QUIC Cubic — Data Link



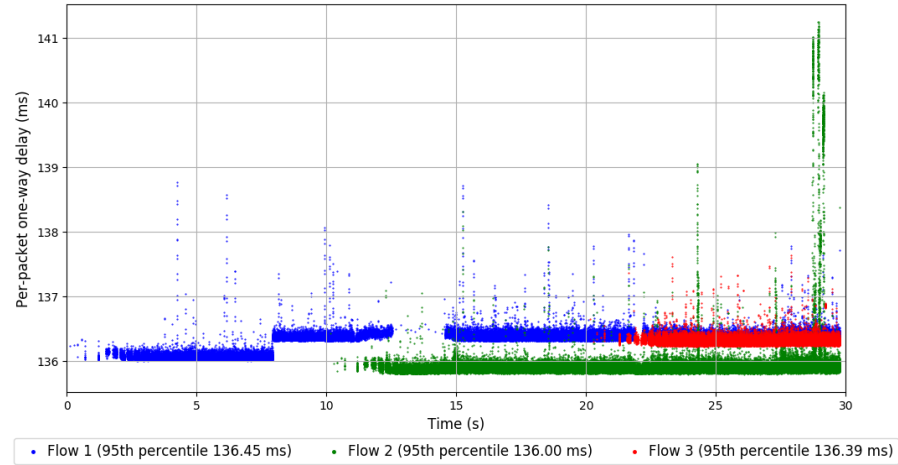
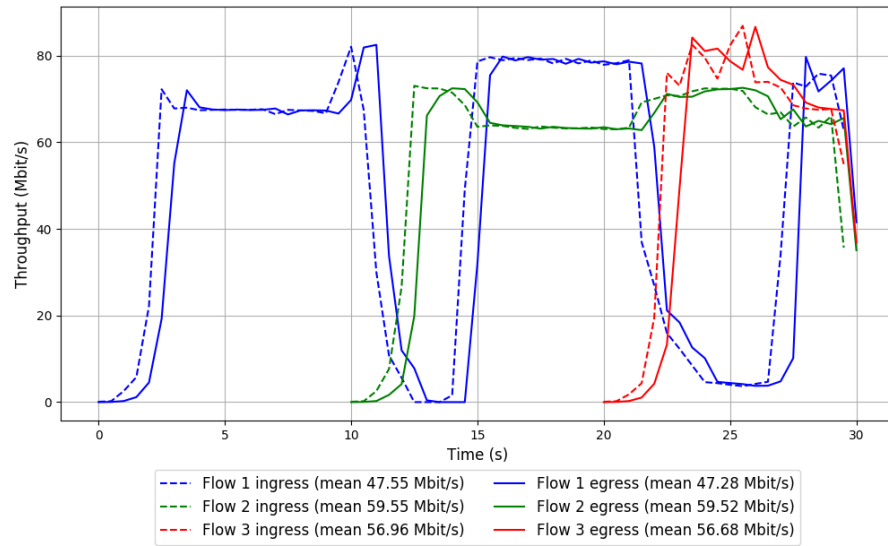
Run 3: Statistics of QUIC Cubic

Start at: 2018-07-11 15:32:26  
End at: 2018-07-11 15:32:56  
Local clock offset: 0.1 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 105.12 Mbit/s  
95th percentile per-packet one-way delay: 136.428 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 47.28 Mbit/s  
95th percentile per-packet one-way delay: 136.450 ms  
Loss rate: 1.46%  
-- Flow 2:  
Average throughput: 59.52 Mbit/s  
95th percentile per-packet one-way delay: 136.000 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 56.68 Mbit/s  
95th percentile per-packet one-way delay: 136.392 ms  
Loss rate: 3.25%



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

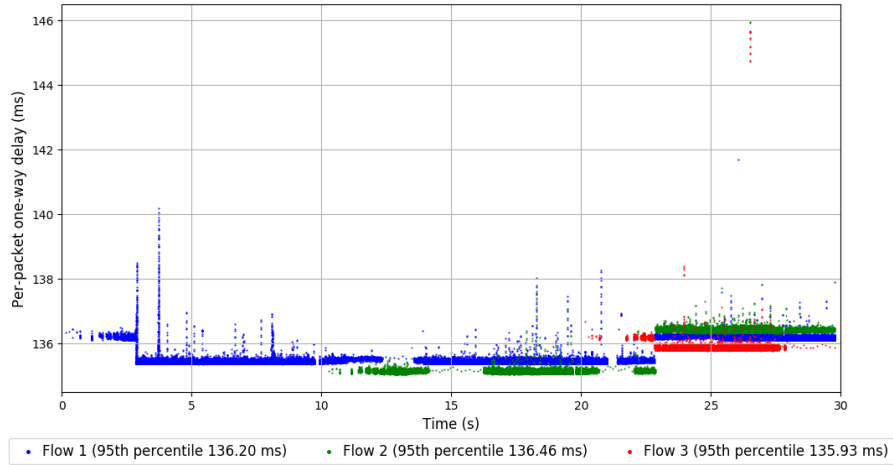
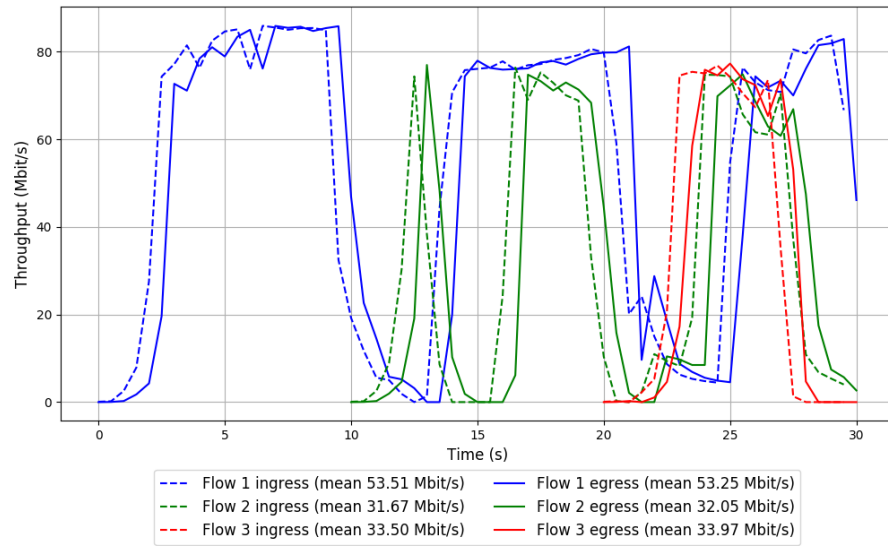


Run 4: Statistics of QUIC Cubic

Start at: 2018-07-11 15:59:11  
End at: 2018-07-11 15:59:41  
Local clock offset: 0.039 ms  
Remote clock offset: -0.483 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.49 Mbit/s  
95th percentile per-packet one-way delay: 136.401 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 53.25 Mbit/s  
95th percentile per-packet one-way delay: 136.203 ms  
Loss rate: 1.38%  
-- Flow 2:  
Average throughput: 32.05 Mbit/s  
95th percentile per-packet one-way delay: 136.458 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 33.97 Mbit/s  
95th percentile per-packet one-way delay: 135.933 ms  
Loss rate: 0.00%

# Run 4: Report of QUIC Cubic — Data Link

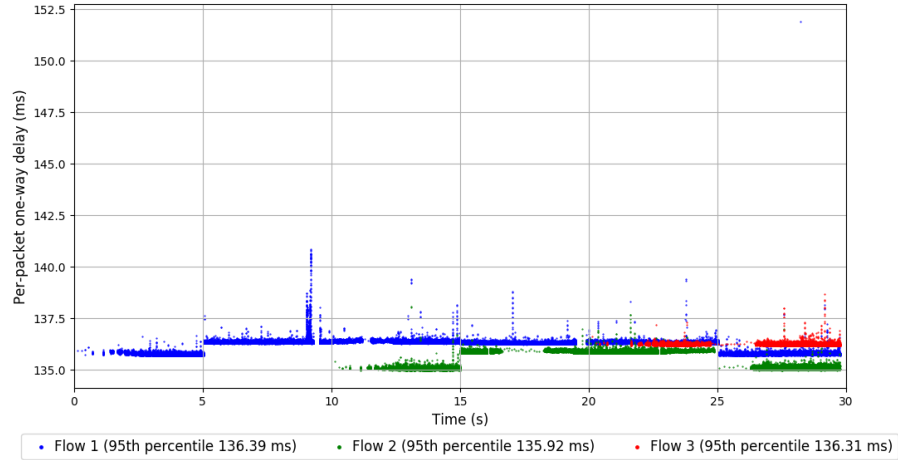
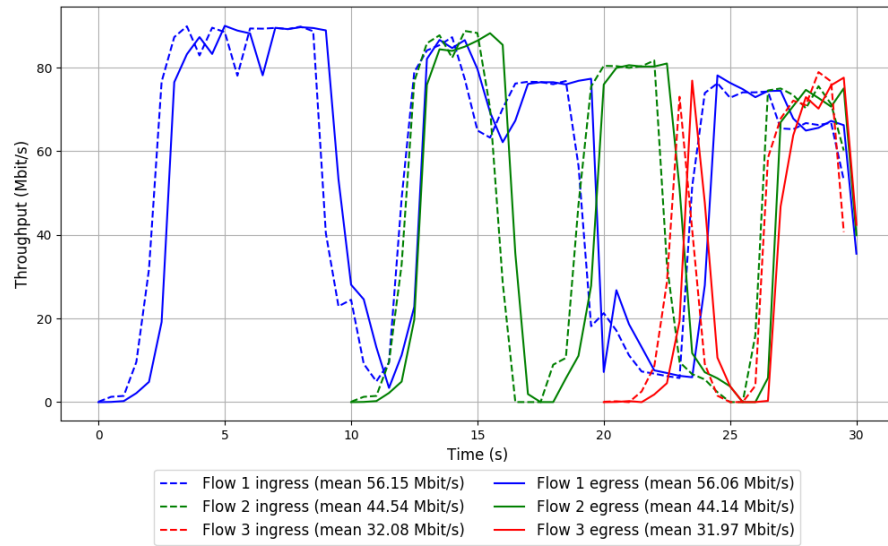


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-11 16:25:38  
End at: 2018-07-11 16:26:08  
Local clock offset: 0.029 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.67 Mbit/s  
95th percentile per-packet one-way delay: 136.370 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 56.06 Mbit/s  
95th percentile per-packet one-way delay: 136.389 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 44.14 Mbit/s  
95th percentile per-packet one-way delay: 135.920 ms  
Loss rate: 2.24%  
-- Flow 3:  
Average throughput: 31.97 Mbit/s  
95th percentile per-packet one-way delay: 136.306 ms  
Loss rate: 3.12%

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

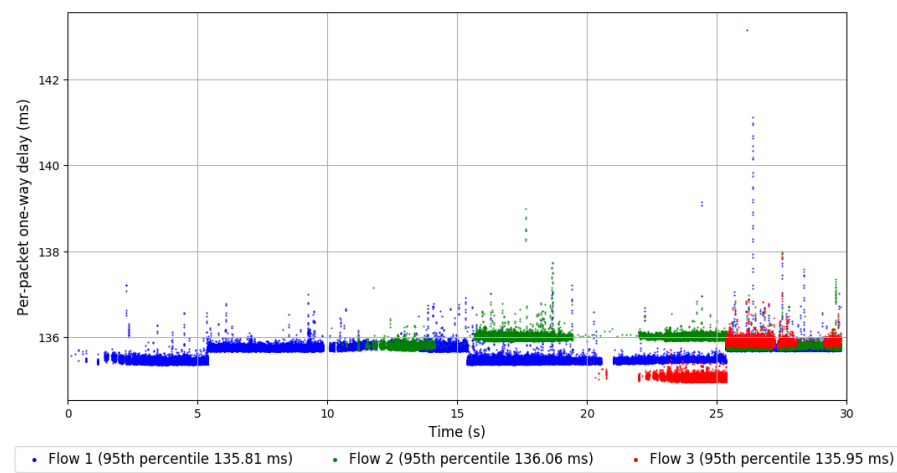
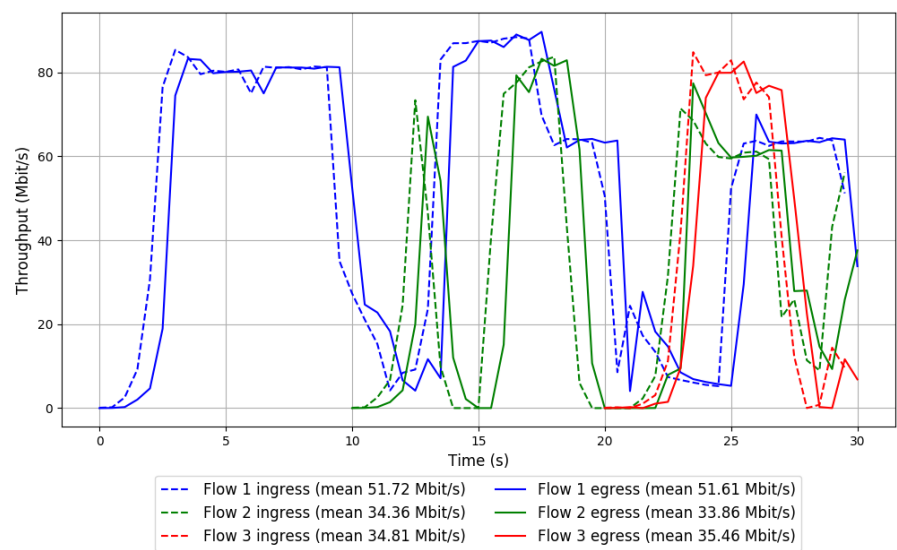


Run 6: Statistics of QUIC Cubic

Start at: 2018-07-11 16:52:58  
End at: 2018-07-11 16:53:28  
Local clock offset: 0.035 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.52 Mbit/s  
95th percentile per-packet one-way delay: 136.012 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 51.61 Mbit/s  
95th percentile per-packet one-way delay: 135.808 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 33.86 Mbit/s  
95th percentile per-packet one-way delay: 136.058 ms  
Loss rate: 2.80%  
-- Flow 3:  
Average throughput: 35.46 Mbit/s  
95th percentile per-packet one-way delay: 135.950 ms  
Loss rate: 0.92%

Run 6: Report of QUIC Cubic — Data Link



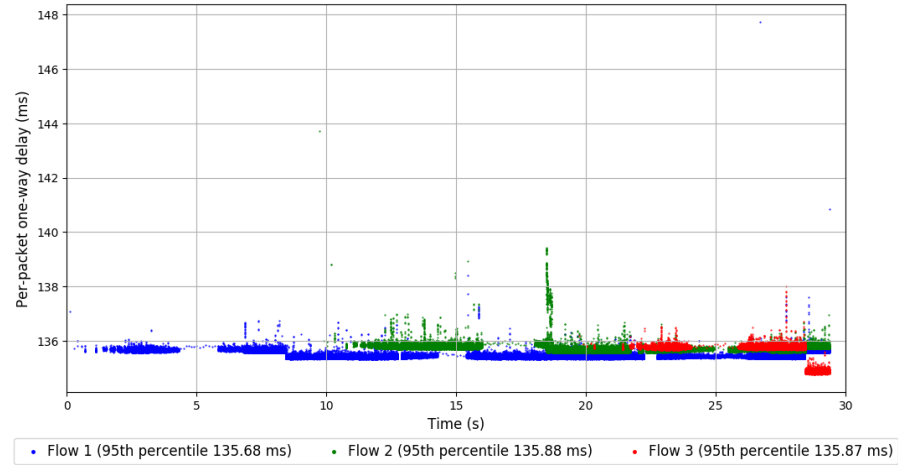
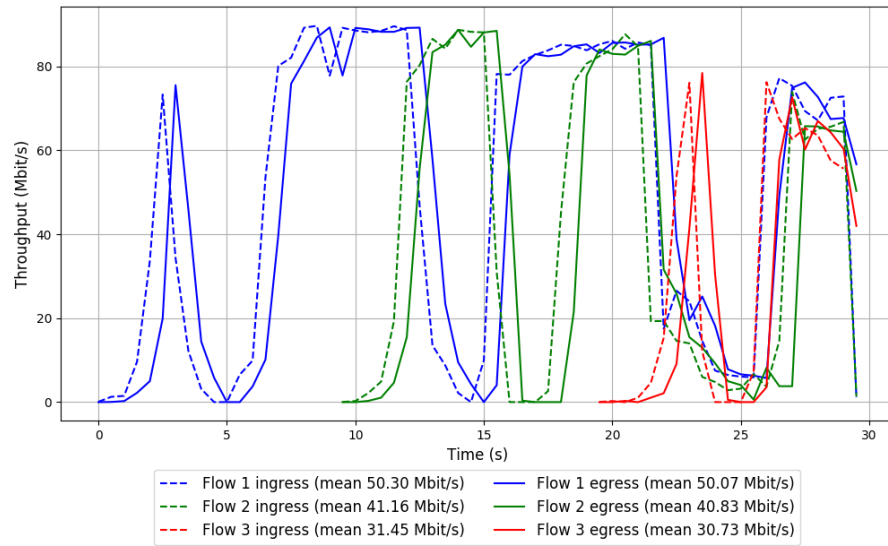
Run 7: Statistics of QUIC Cubic

Start at: 2018-07-11 17:19:35  
End at: 2018-07-11 17:20:05  
Local clock offset: -0.228 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.58 Mbit/s  
95th percentile per-packet one-way delay: 135.829 ms  
Loss rate: 2.00%  
-- Flow 1:  
Average throughput: 50.07 Mbit/s  
95th percentile per-packet one-way delay: 135.679 ms  
Loss rate: 1.36%  
-- Flow 2:  
Average throughput: 40.83 Mbit/s  
95th percentile per-packet one-way delay: 135.875 ms  
Loss rate: 2.21%  
-- Flow 3:  
Average throughput: 30.73 Mbit/s  
95th percentile per-packet one-way delay: 135.870 ms  
Loss rate: 4.51%



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

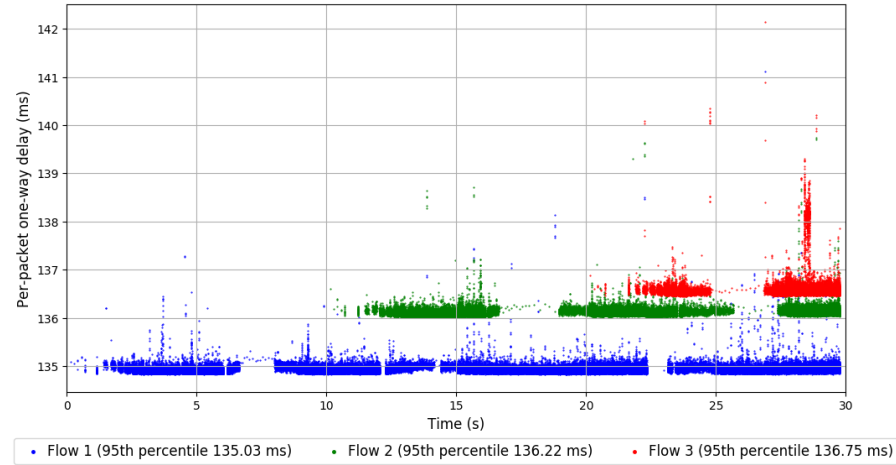
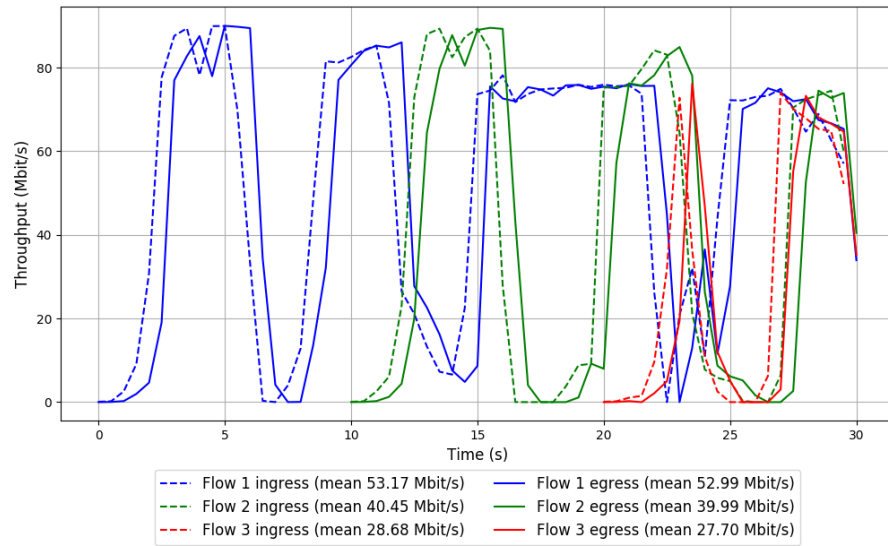


Run 8: Statistics of QUIC Cubic

Start at: 2018-07-11 17:46:21  
End at: 2018-07-11 17:46:51  
Local clock offset: -0.14 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.47 Mbit/s  
95th percentile per-packet one-way delay: 136.561 ms  
Loss rate: 2.13%  
-- Flow 1:  
Average throughput: 52.99 Mbit/s  
95th percentile per-packet one-way delay: 135.025 ms  
Loss rate: 1.24%  
-- Flow 2:  
Average throughput: 39.99 Mbit/s  
95th percentile per-packet one-way delay: 136.218 ms  
Loss rate: 2.49%  
-- Flow 3:  
Average throughput: 27.70 Mbit/s  
95th percentile per-packet one-way delay: 136.745 ms  
Loss rate: 6.08%

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

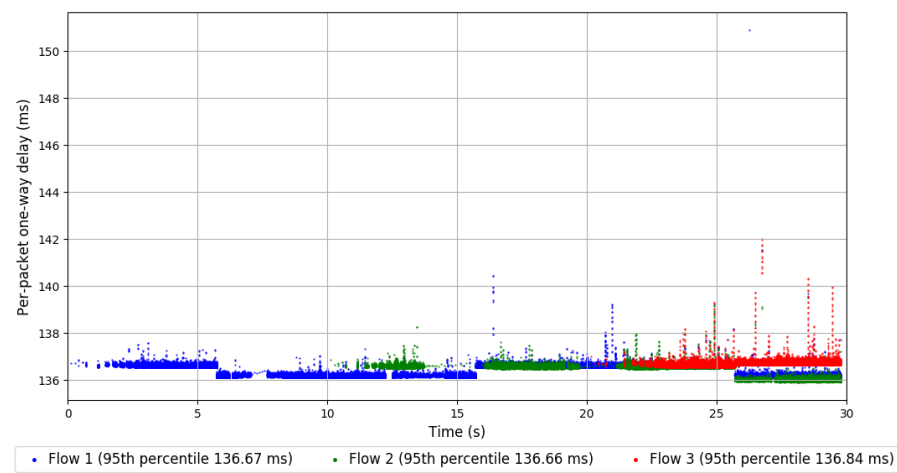
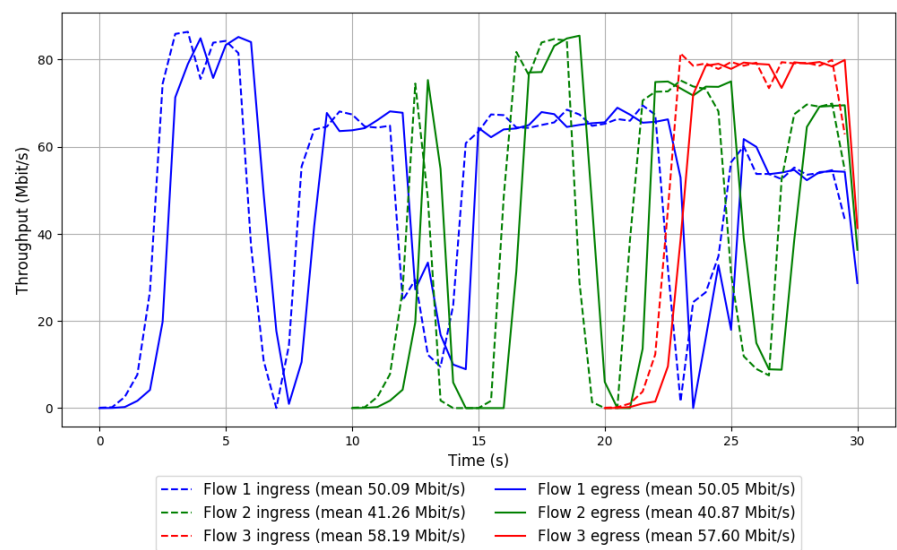


Run 9: Statistics of QUIC Cubic

Start at: 2018-07-11 18:13:08  
End at: 2018-07-11 18:13:38  
Local clock offset: -0.047 ms  
Remote clock offset: -0.439 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.80 Mbit/s  
95th percentile per-packet one-way delay: 136.749 ms  
Loss rate: 1.90%  
-- Flow 1:  
Average throughput: 50.05 Mbit/s  
95th percentile per-packet one-way delay: 136.673 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 40.87 Mbit/s  
95th percentile per-packet one-way delay: 136.655 ms  
Loss rate: 2.27%  
-- Flow 3:  
Average throughput: 57.60 Mbit/s  
95th percentile per-packet one-way delay: 136.839 ms  
Loss rate: 3.75%

Run 9: Report of QUIC Cubic — Data Link

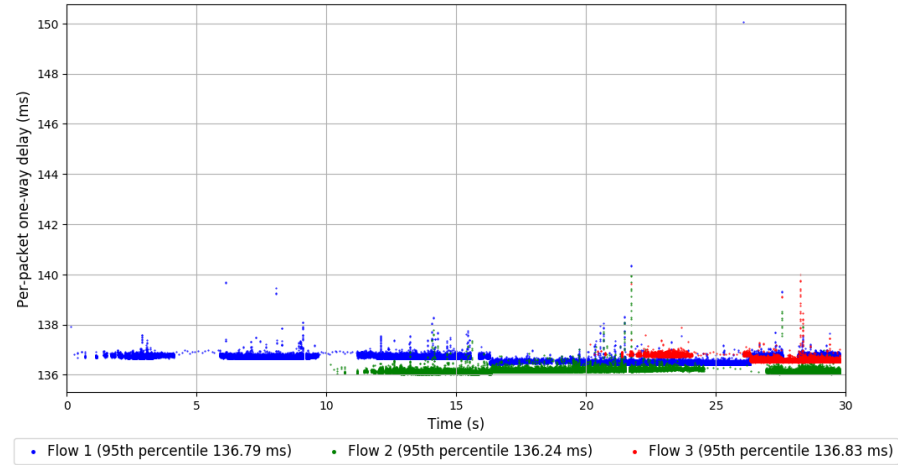
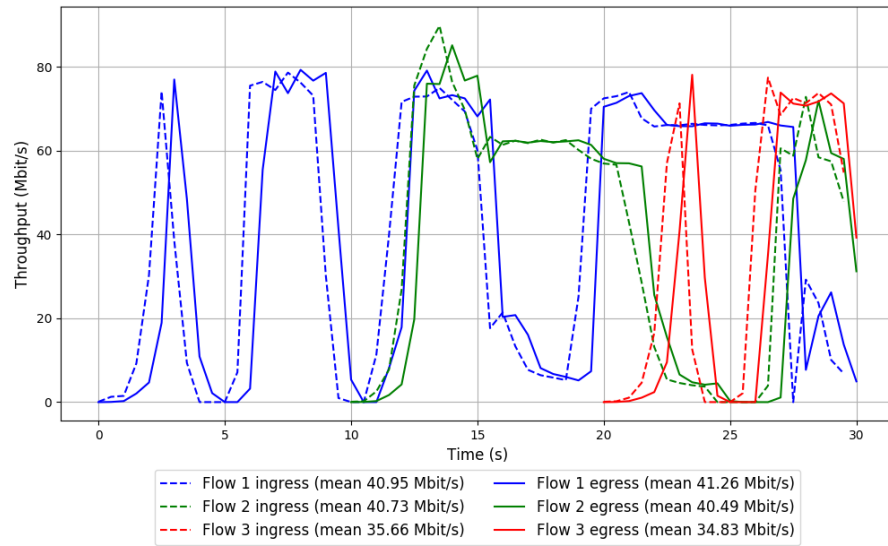


Run 10: Statistics of QUIC Cubic

Start at: 2018-07-11 18:39:57  
End at: 2018-07-11 18:40:27  
Local clock offset: -0.057 ms  
Remote clock offset: -0.441 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.38 Mbit/s  
95th percentile per-packet one-way delay: 136.780 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 41.26 Mbit/s  
95th percentile per-packet one-way delay: 136.786 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 40.49 Mbit/s  
95th percentile per-packet one-way delay: 136.243 ms  
Loss rate: 1.96%  
-- Flow 3:  
Average throughput: 34.83 Mbit/s  
95th percentile per-packet one-way delay: 136.826 ms  
Loss rate: 4.99%

# Run 10: Report of QUIC Cubic — Data Link



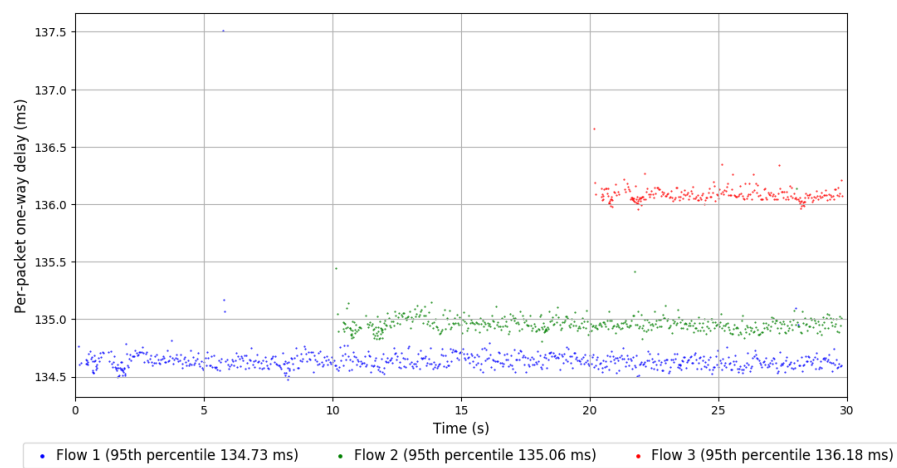
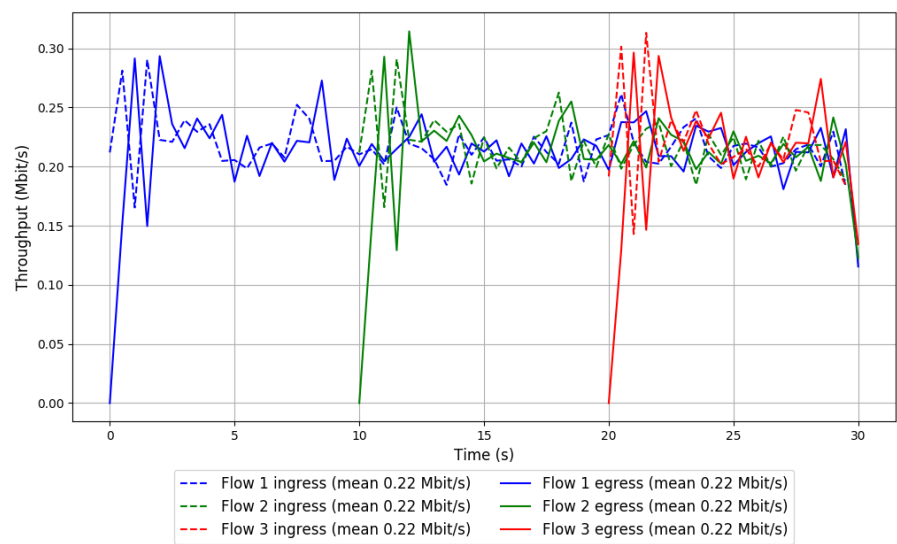
Run 1: Statistics of SReAM

Start at: 2018-07-11 14:35:59  
End at: 2018-07-11 14:36:29  
Local clock offset: -0.111 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.098 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 134.727 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.065 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.181 ms  
Loss rate: 2.25%



Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-11 15:03:04

End at: 2018-07-11 15:03:34

Local clock offset: -0.021 ms

Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2018-07-11 21:14:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 135.963 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.537 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.554 ms

Loss rate: 1.43%

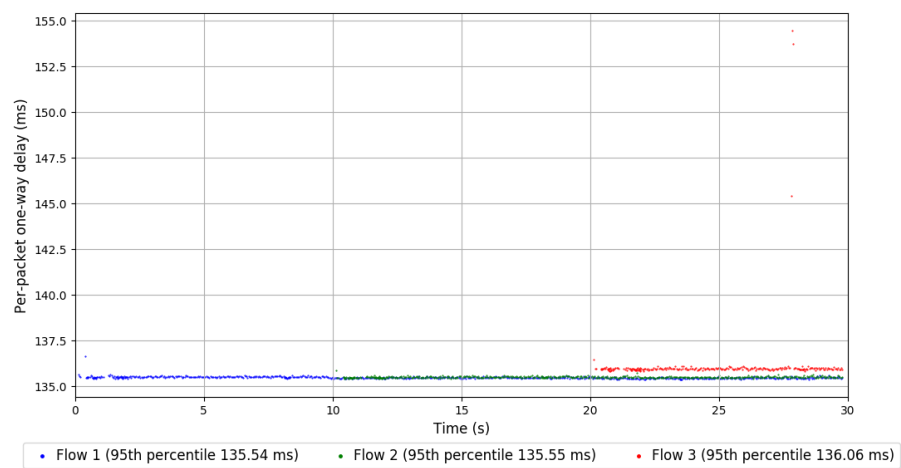
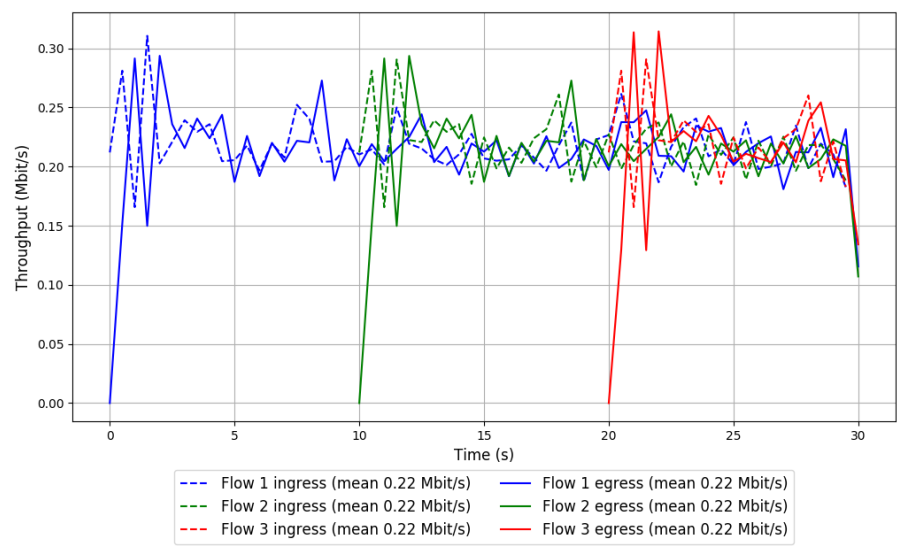
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.057 ms

Loss rate: 2.59%

Run 2: Report of SReAM — Data Link

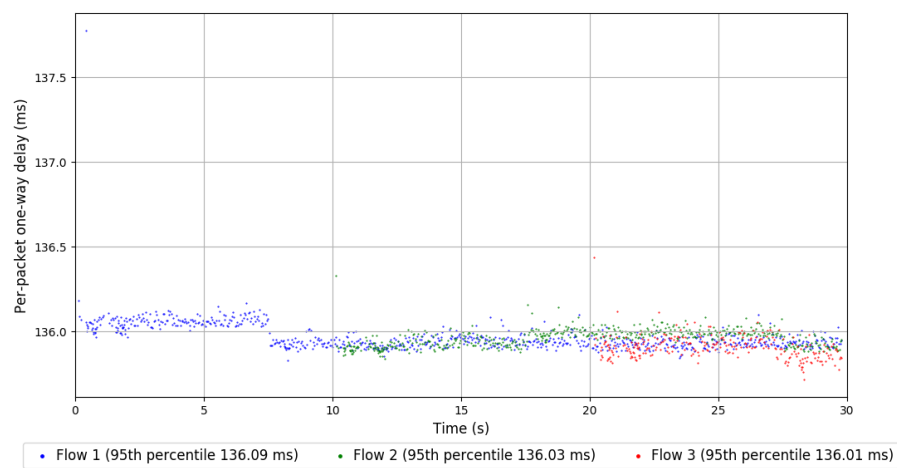
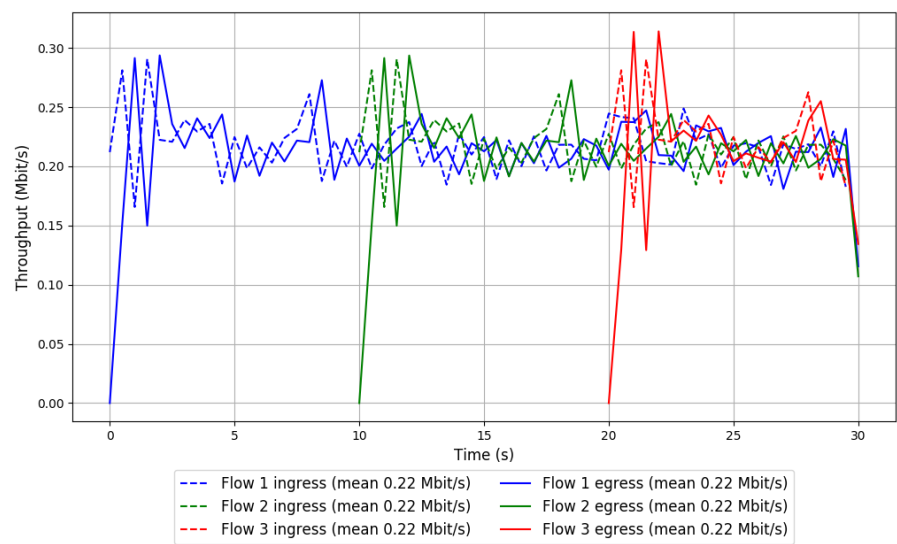


Run 3: Statistics of SReAM

Start at: 2018-07-11 15:29:46  
End at: 2018-07-11 15:30:16  
Local clock offset: -0.018 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.070 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.090 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.034 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.006 ms  
Loss rate: 2.59%

Run 3: Report of SReAM — Data Link

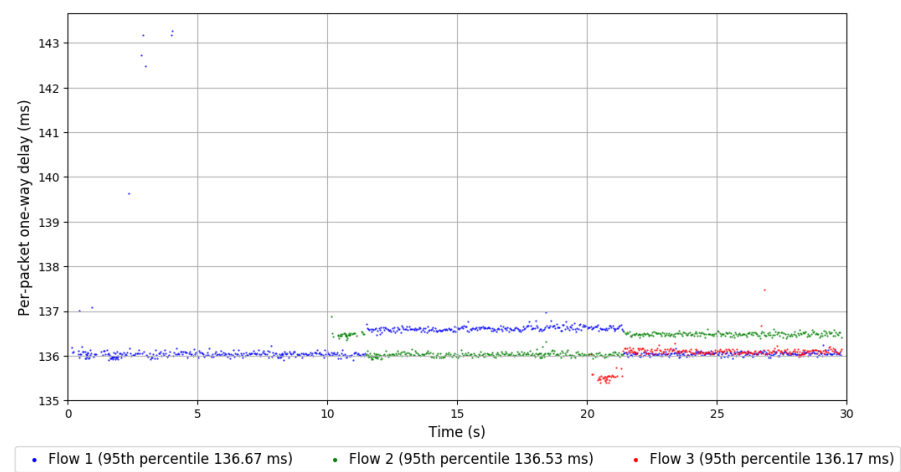
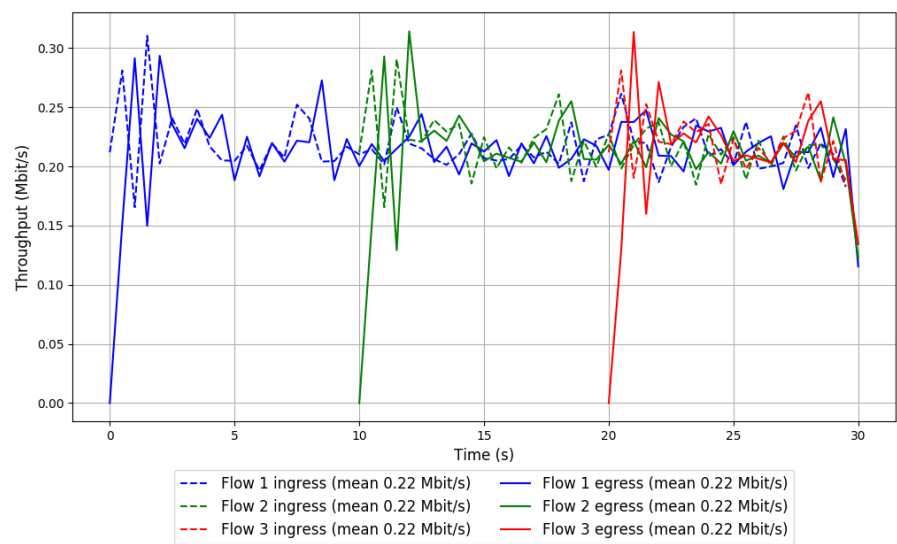


Run 4: Statistics of SReAM

Start at: 2018-07-11 15:56:32  
End at: 2018-07-11 15:57:02  
Local clock offset: -0.024 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 136.636 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.667 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.527 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.166 ms  
Loss rate: 2.60%

Run 4: Report of SReAM — Data Link



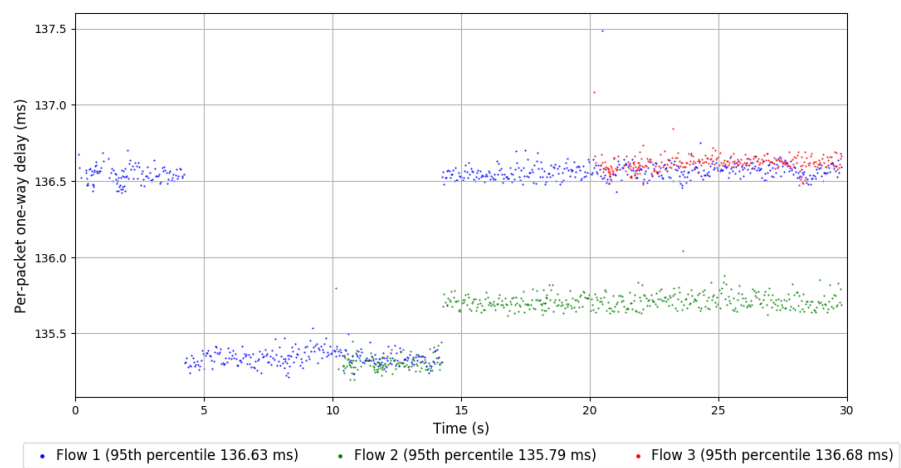
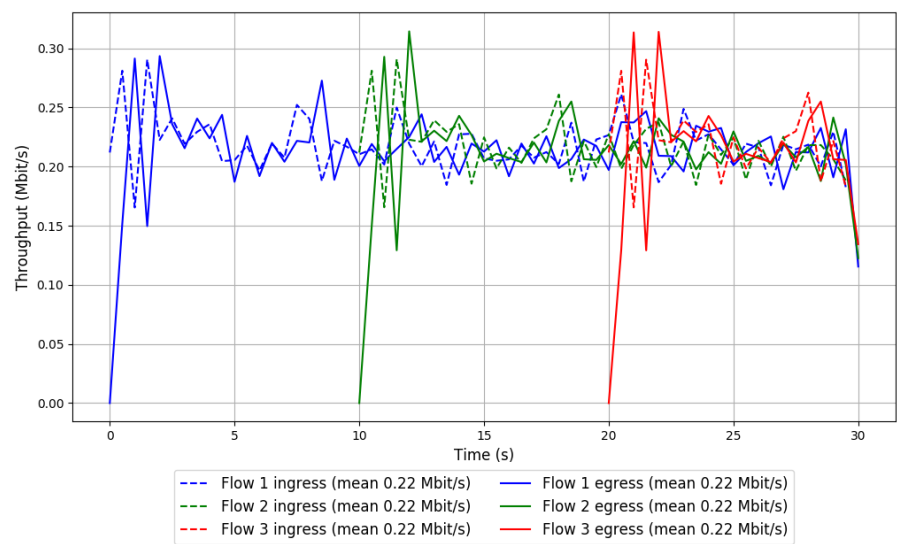
Run 5: Statistics of SReAM

Start at: 2018-07-11 16:22:59  
End at: 2018-07-11 16:23:29  
Local clock offset: -0.192 ms  
Remote clock offset: -0.469 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.645 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.629 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.788 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.683 ms  
Loss rate: 2.59%



Run 5: Report of SReAM — Data Link

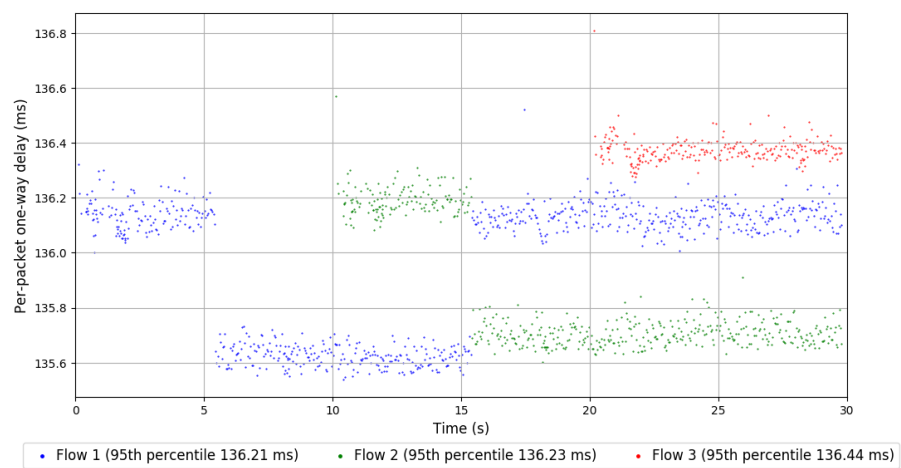
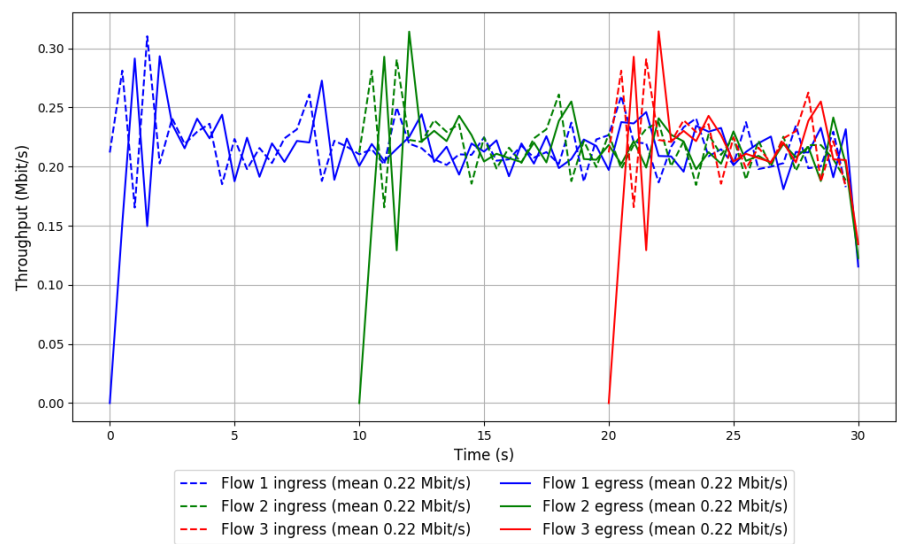


Run 6: Statistics of SReAM

Start at: 2018-07-11 16:50:18  
End at: 2018-07-11 16:50:48  
Local clock offset: 0.031 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.389 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.214 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.234 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.441 ms  
Loss rate: 2.59%

Run 6: Report of SReAM — Data Link

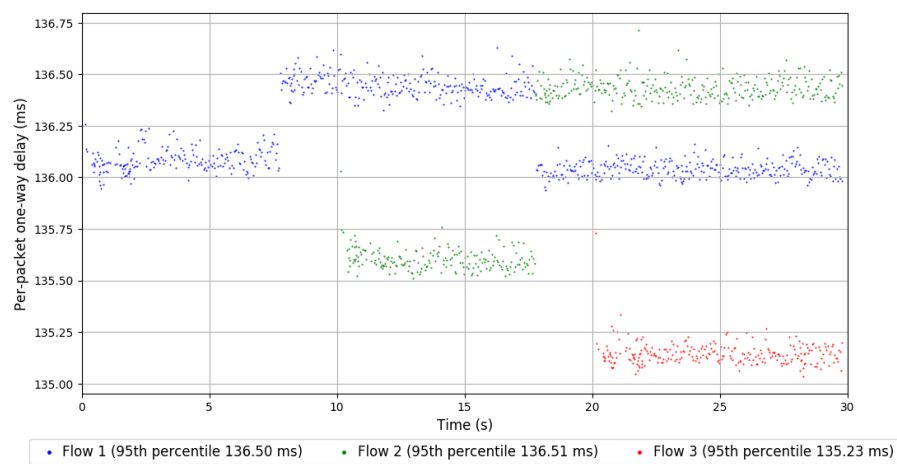
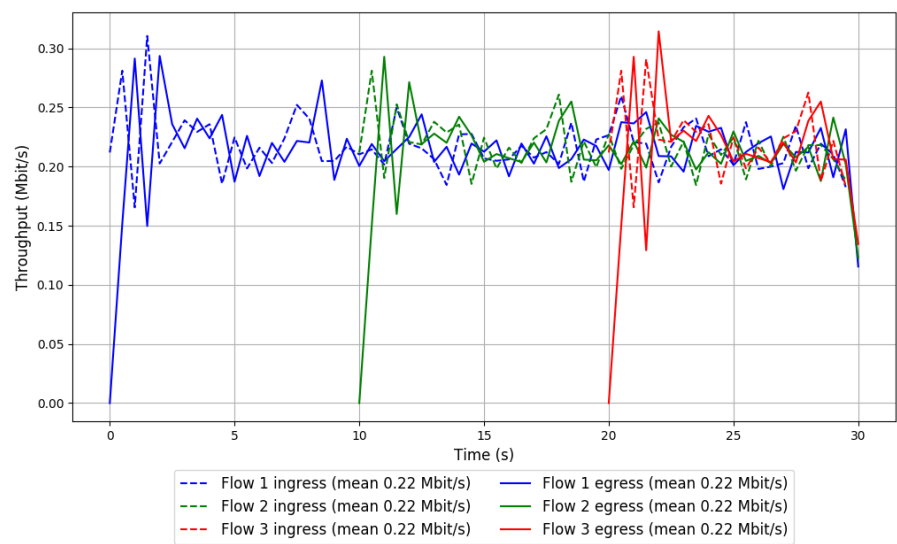


Run 7: Statistics of SReAM

Start at: 2018-07-11 17:16:56  
End at: 2018-07-11 17:17:26  
Local clock offset: -0.029 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 136.497 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.501 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.510 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.227 ms  
Loss rate: 2.59%

Run 7: Report of SReAM — Data Link

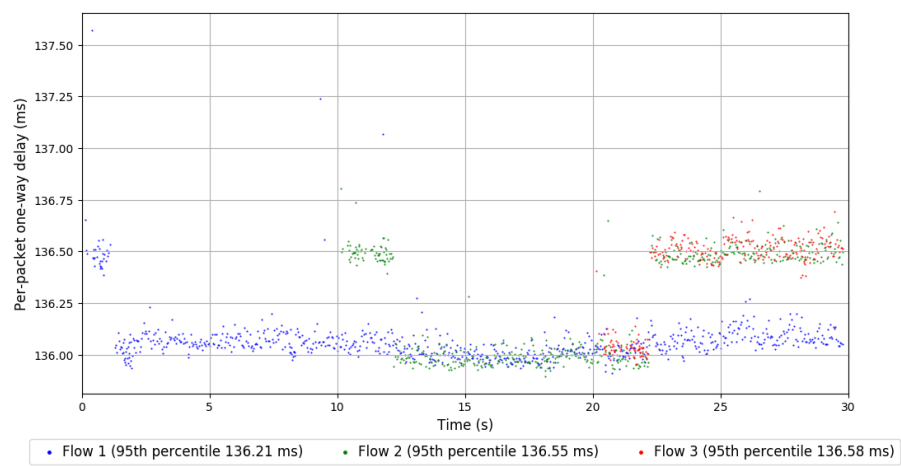
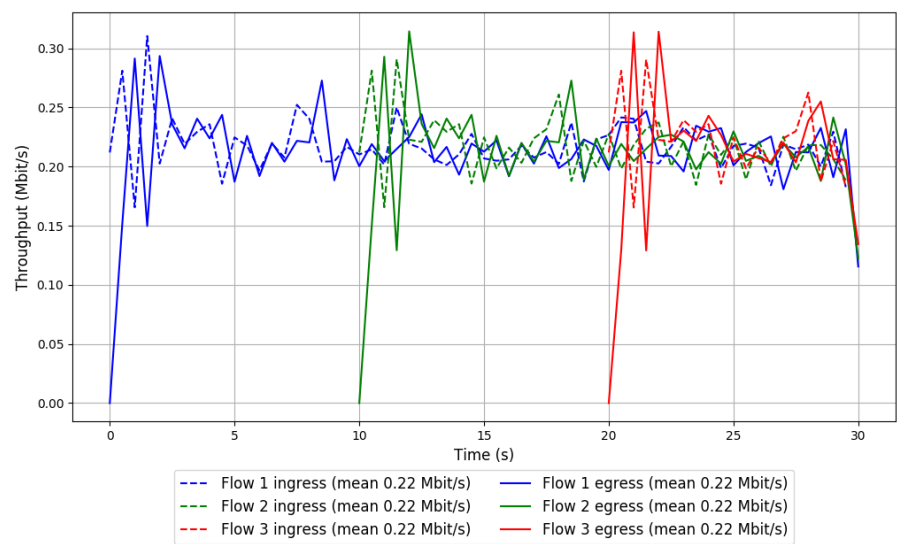


Run 8: Statistics of SReAM

Start at: 2018-07-11 17:43:41  
End at: 2018-07-11 17:44:11  
Local clock offset: 0.068 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.553 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.205 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.551 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.582 ms  
Loss rate: 2.59%

Run 8: Report of SReAM — Data Link



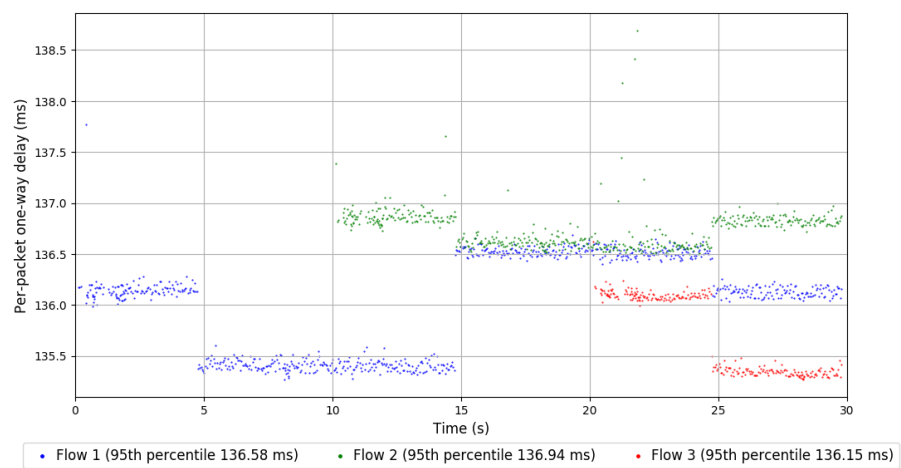
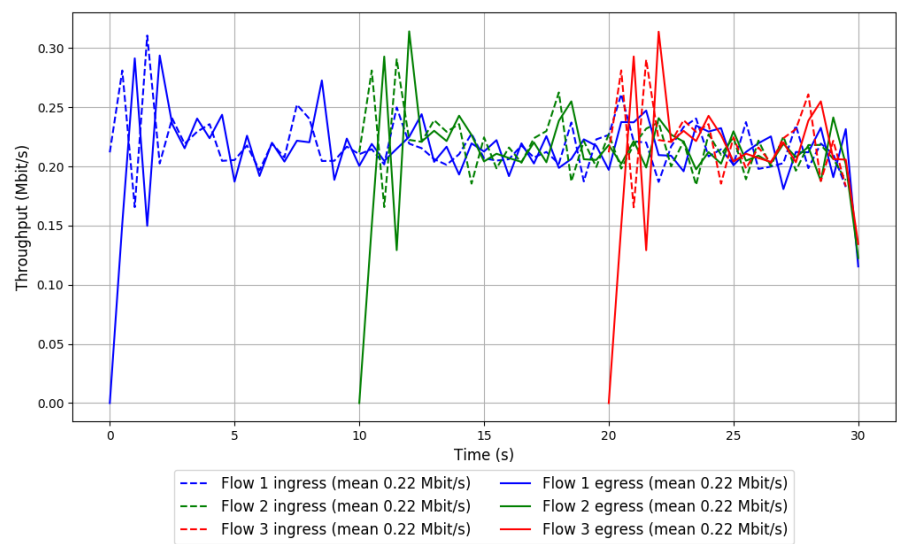
Run 9: Statistics of SReAM

Start at: 2018-07-11 18:10:29  
End at: 2018-07-11 18:10:59  
Local clock offset: 0.144 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.872 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.577 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.945 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.152 ms  
Loss rate: 2.59%



Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-11 18:37:18

End at: 2018-07-11 18:37:48

Local clock offset: 0.107 ms

Remote clock offset: 0.269 ms

# Below is generated by plot.py at 2018-07-11 21:14:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.317 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.343 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.266 ms

Loss rate: 1.43%

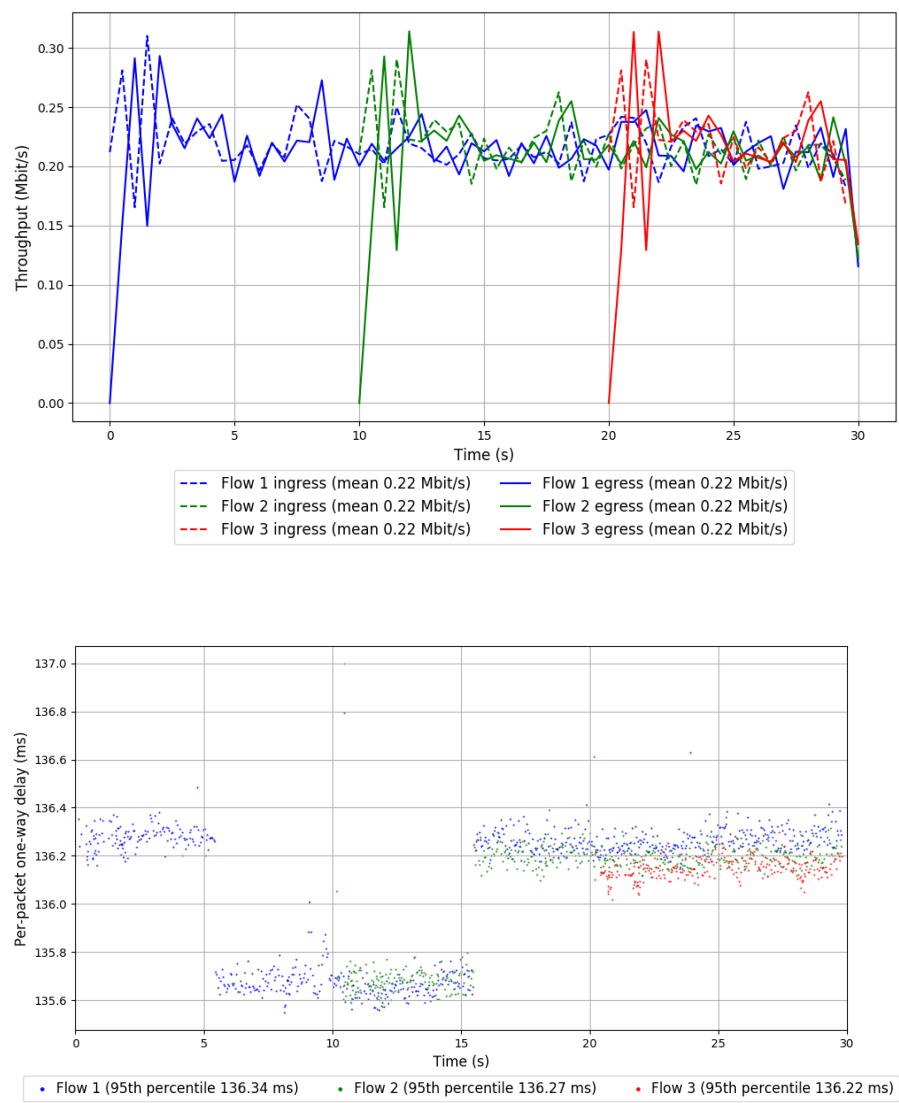
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.220 ms

Loss rate: 2.25%

Run 10: Report of SReAM — Data Link

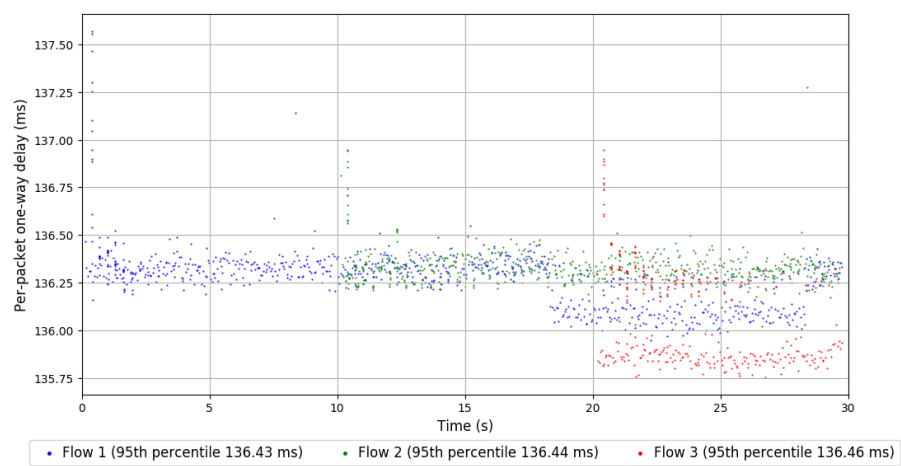
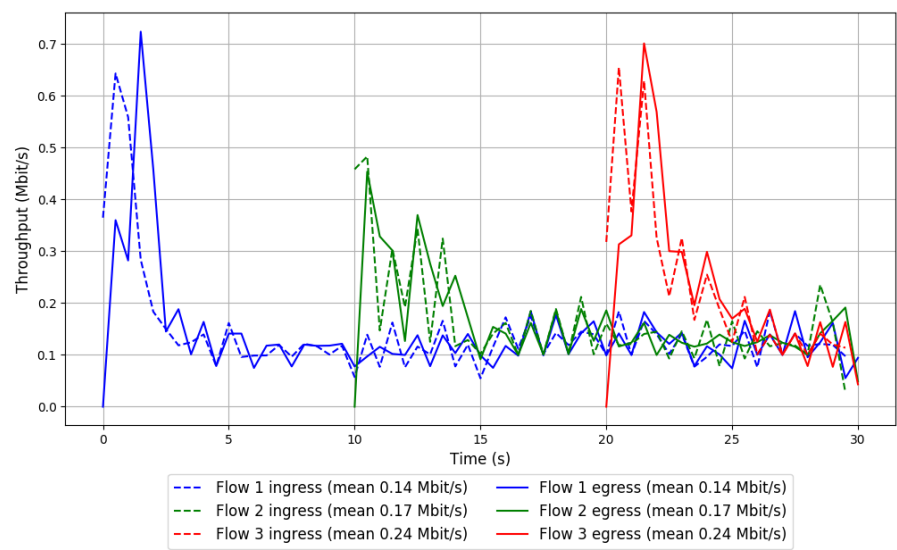


Run 1: Statistics of Sprout

Start at: 2018-07-11 14:41:15  
End at: 2018-07-11 14:41:45  
Local clock offset: 0.01 ms  
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 136.437 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 136.430 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 136.438 ms  
Loss rate: 0.37%  
-- Flow 3:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 136.455 ms  
Loss rate: 1.99%

Run 1: Report of Sprout — Data Link

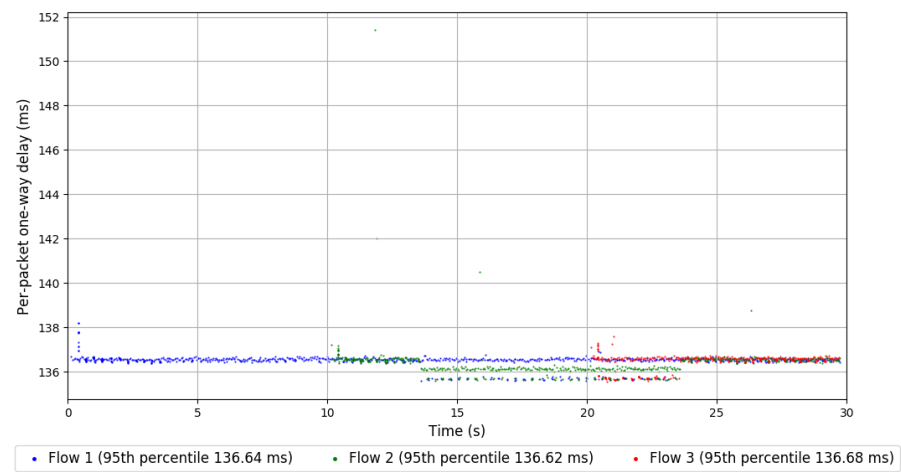
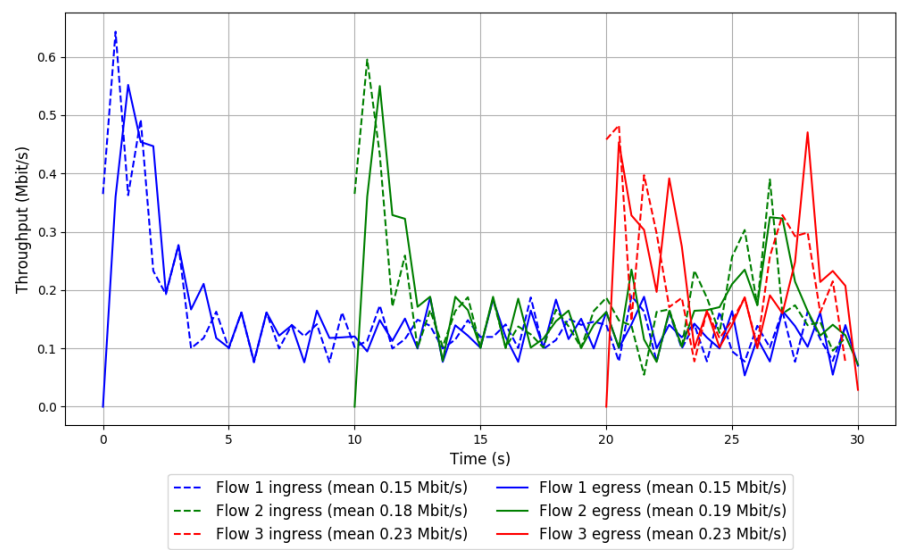


Run 2: Statistics of Sprout

Start at: 2018-07-11 15:08:20  
End at: 2018-07-11 15:08:50  
Local clock offset: 0.132 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 136.646 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 136.641 ms  
Loss rate: 0.78%  
-- Flow 2:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 136.625 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 136.678 ms  
Loss rate: 1.60%

Run 2: Report of Sprout — Data Link



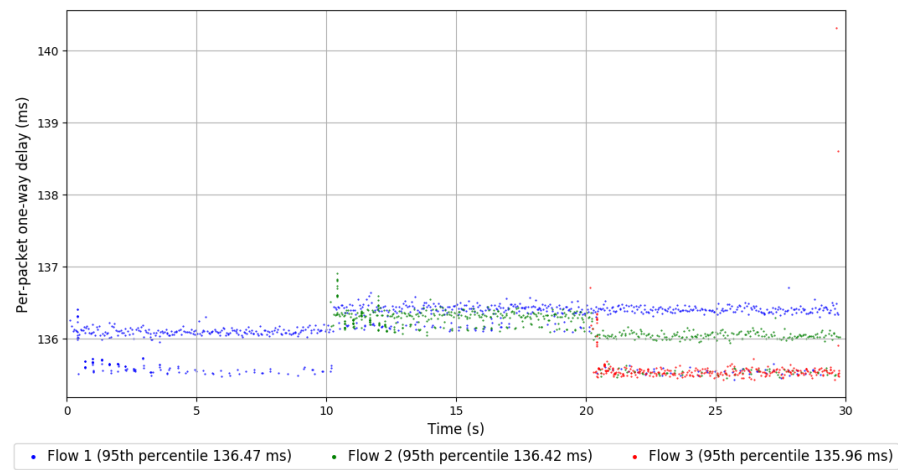
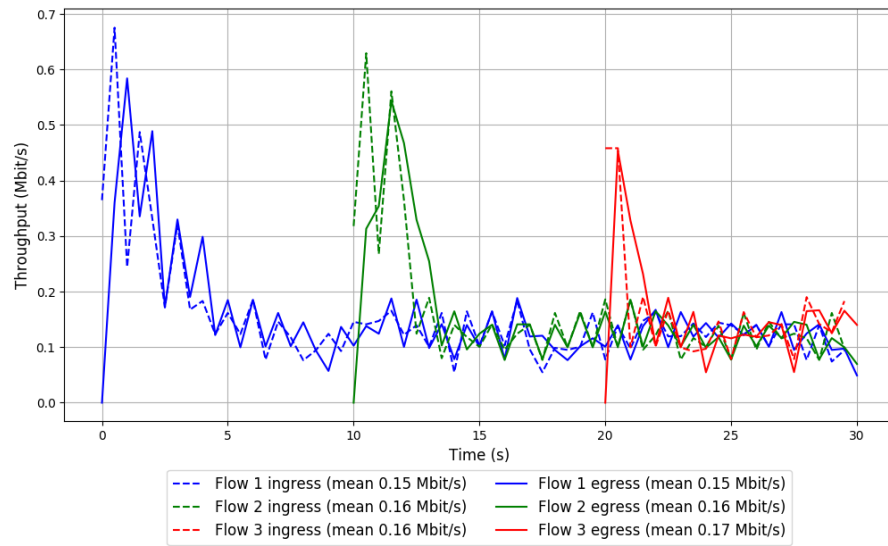
### Run 3: Statistics of Sprout

Start at: 2018-07-11 15:35:03  
End at: 2018-07-11 15:35:33  
Local clock offset: 0.021 ms  
Remote clock offset: -0.103 ms

```
# Below is generated by plot.py at 2018-07-11 21:14:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 136.463 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.475 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.416 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 135.960 ms
Loss rate: 1.47%
```



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

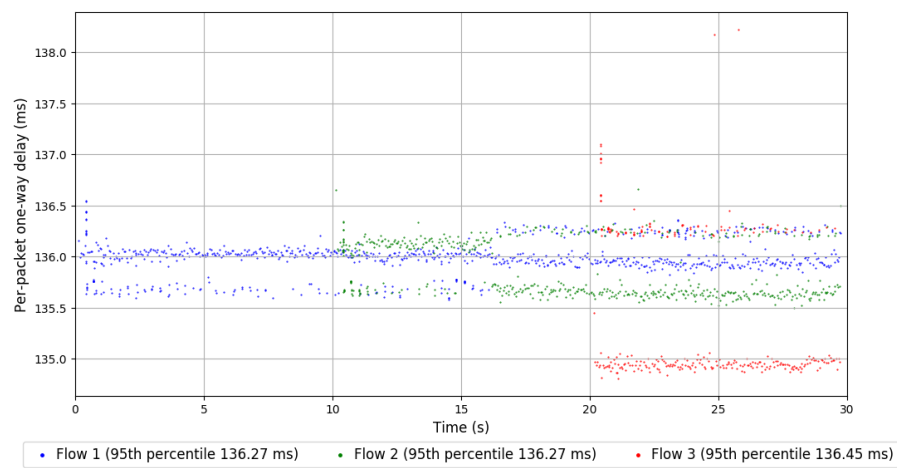
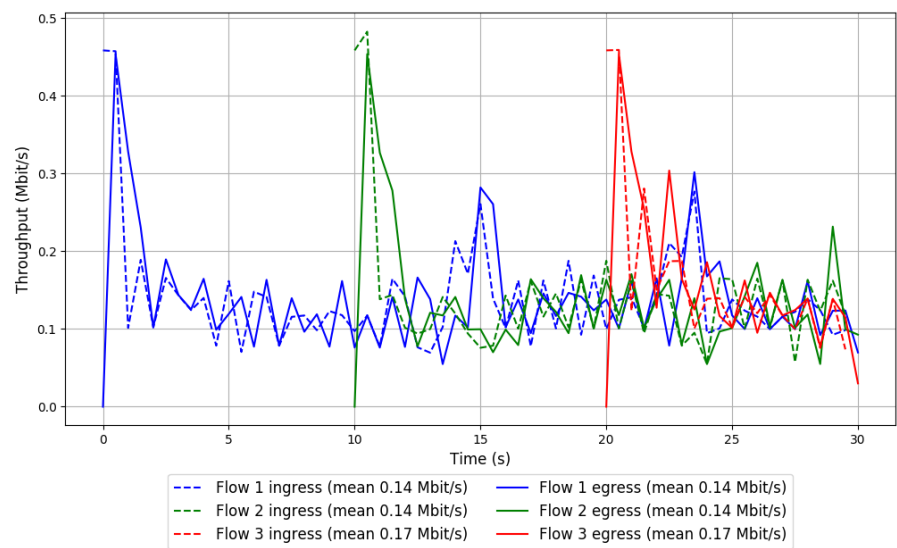


#### Run 4: Statistics of Sprout

Start at: 2018-07-11 16:01:47  
End at: 2018-07-11 16:02:17  
Local clock offset: 0.119 ms  
Remote clock offset: -0.111 ms

```
# Below is generated by plot.py at 2018-07-11 21:14:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 136.284 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.267 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.269 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.454 ms
Loss rate: 2.09%
```

Run 4: Report of Sprout — Data Link

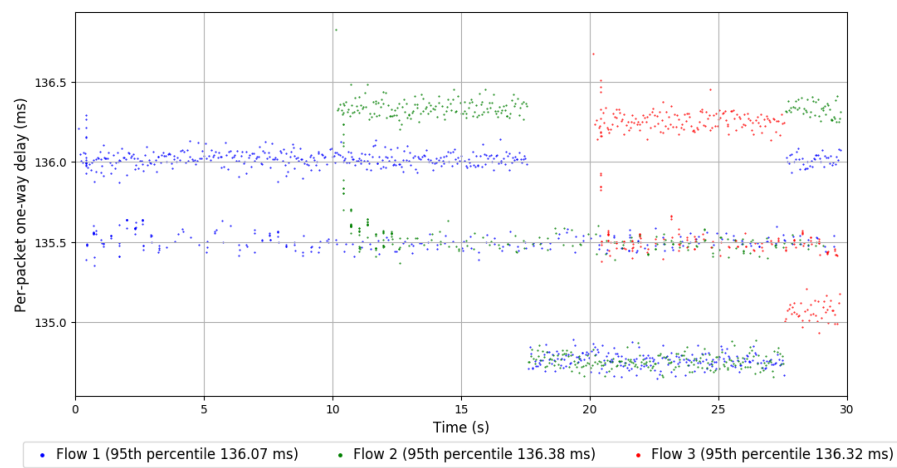
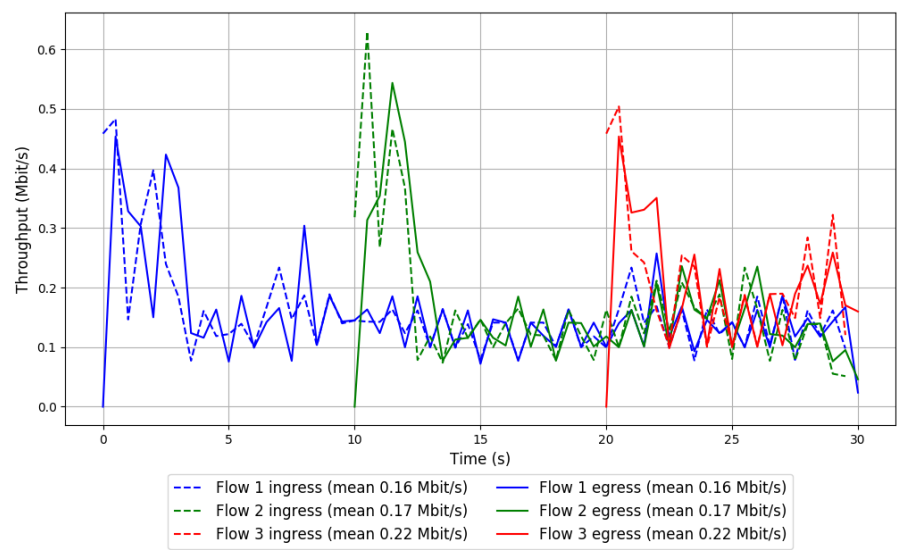


Run 5: Statistics of Sprout

Start at: 2018-07-11 16:28:16  
End at: 2018-07-11 16:28:46  
Local clock offset: -0.052 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 136.344 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 136.069 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 136.385 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.320 ms  
Loss rate: 2.73%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-11 16:55:35

End at: 2018-07-11 16:56:05

Local clock offset: -0.05 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-07-11 21:14:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.431 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 135.752 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 136.015 ms

Loss rate: 1.28%

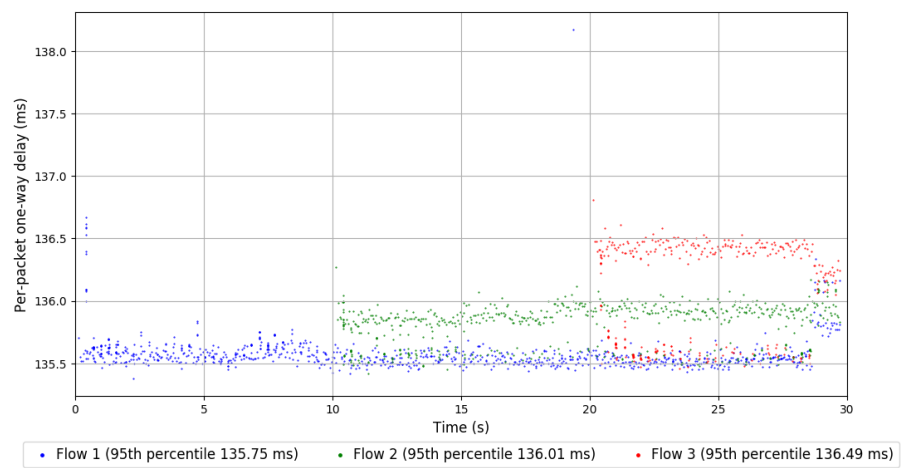
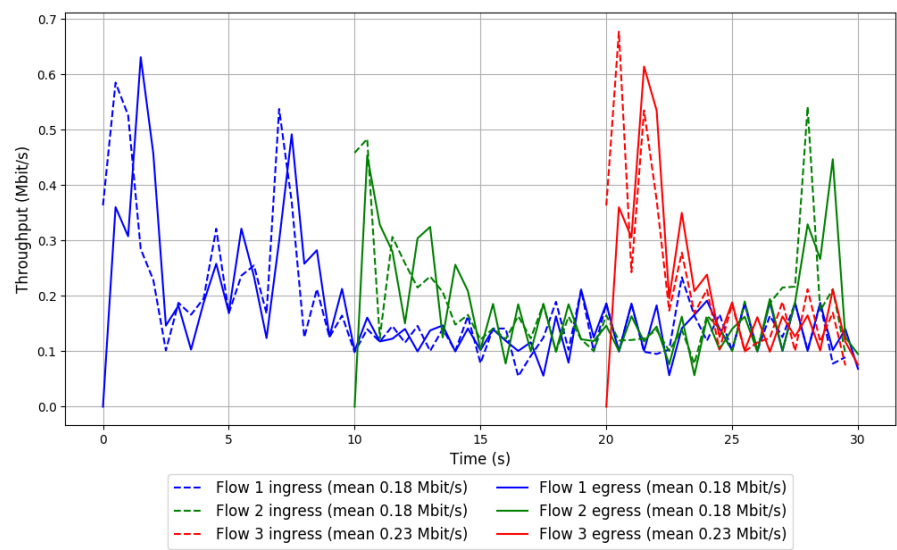
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 136.492 ms

Loss rate: 1.58%

Run 6: Report of Sprout — Data Link



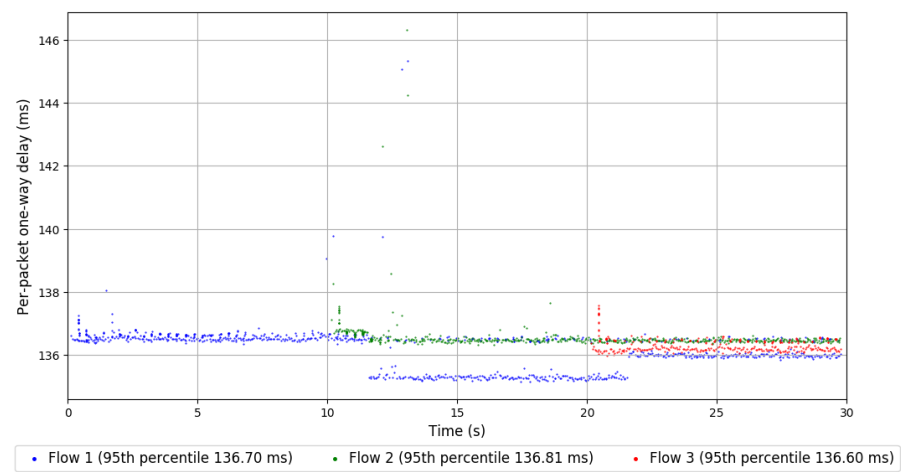
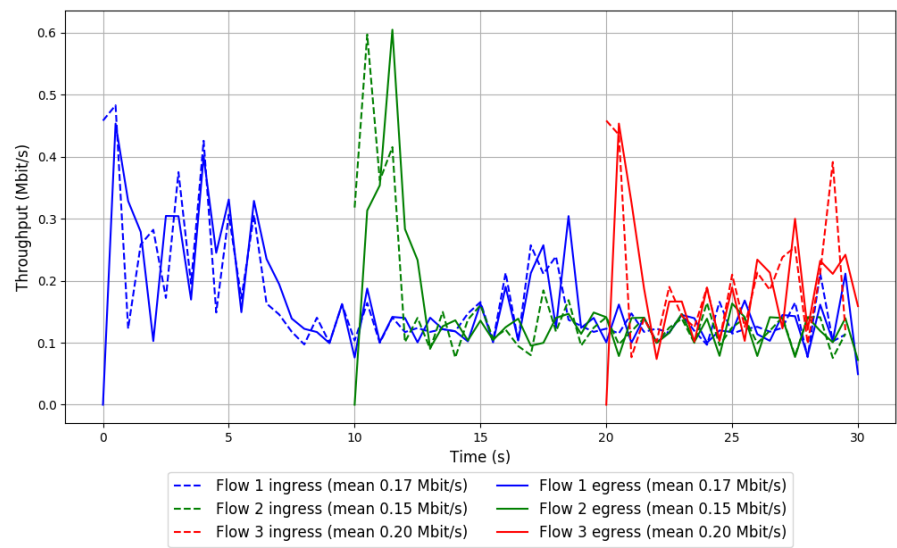
Run 7: Statistics of Sprout

Start at: 2018-07-11 17:22:12  
End at: 2018-07-11 17:22:42  
Local clock offset: 0.098 ms  
Remote clock offset: -0.14 ms

```
# Below is generated by plot.py at 2018-07-11 21:14:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 136.759 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.701 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.813 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 136.599 ms
Loss rate: 2.88%
```



Run 7: Report of Sprout — Data Link

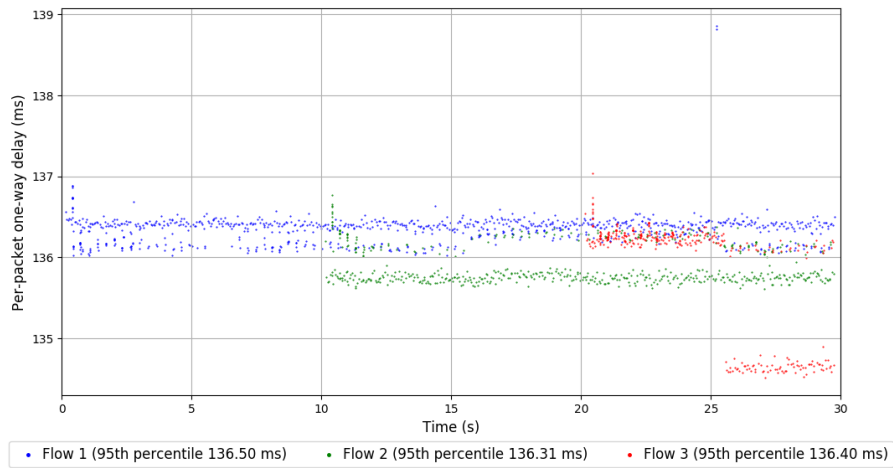
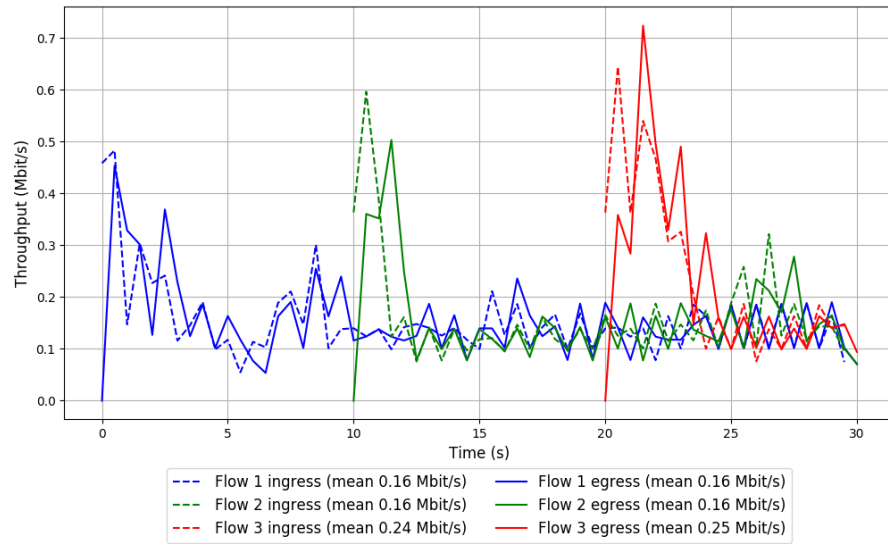


Run 8: Statistics of Sprout

Start at: 2018-07-11 17:48:58  
End at: 2018-07-11 17:49:28  
Local clock offset: -0.175 ms  
Remote clock offset: -0.05 ms

```
# Below is generated by plot.py at 2018-07-11 21:14:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 136.471 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.310 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 136.397 ms
Loss rate: 1.96%
```

# Run 8: Report of Sprout — Data Link

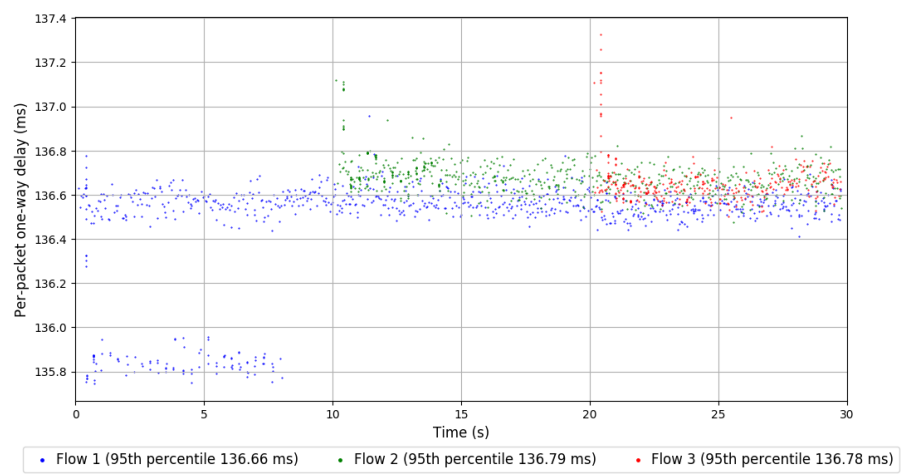
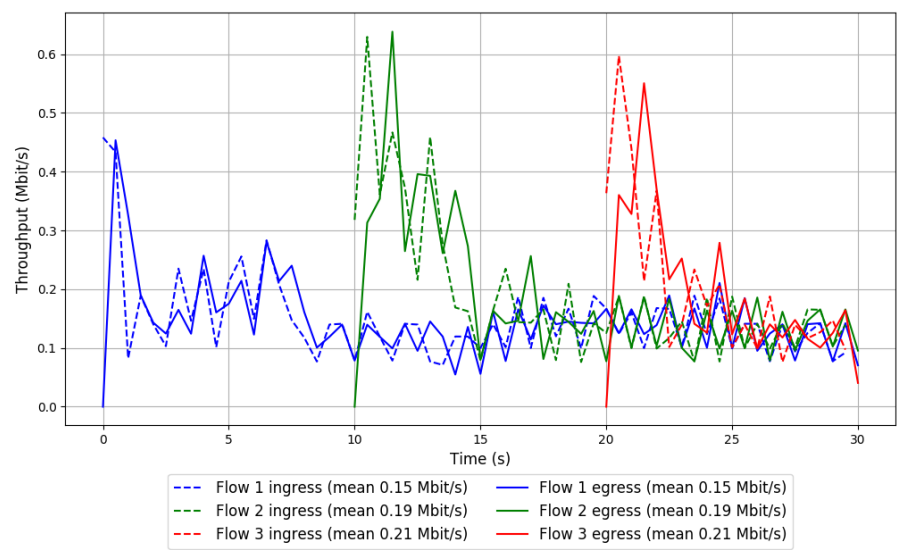


Run 9: Statistics of Sprout

Start at: 2018-07-11 18:15:45  
End at: 2018-07-11 18:16:15  
Local clock offset: -0.079 ms  
Remote clock offset: -0.443 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 136.763 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 136.656 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 136.789 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 136.780 ms  
Loss rate: 2.05%

Run 9: Report of Sprout — Data Link

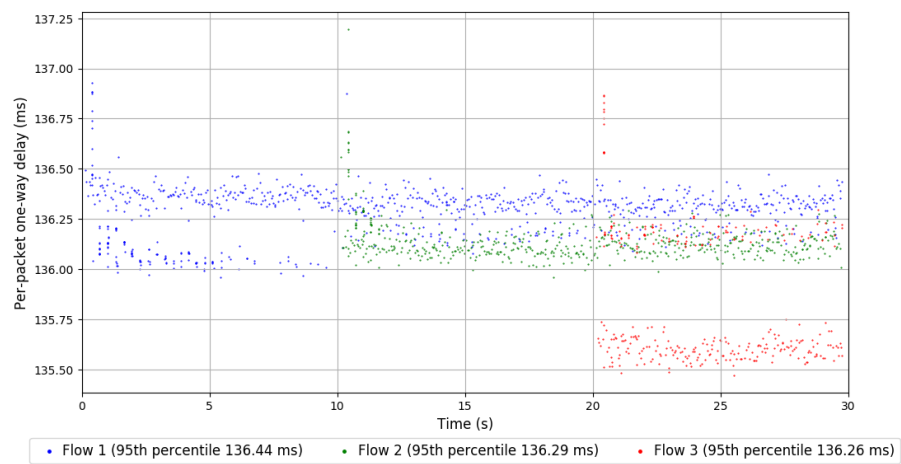
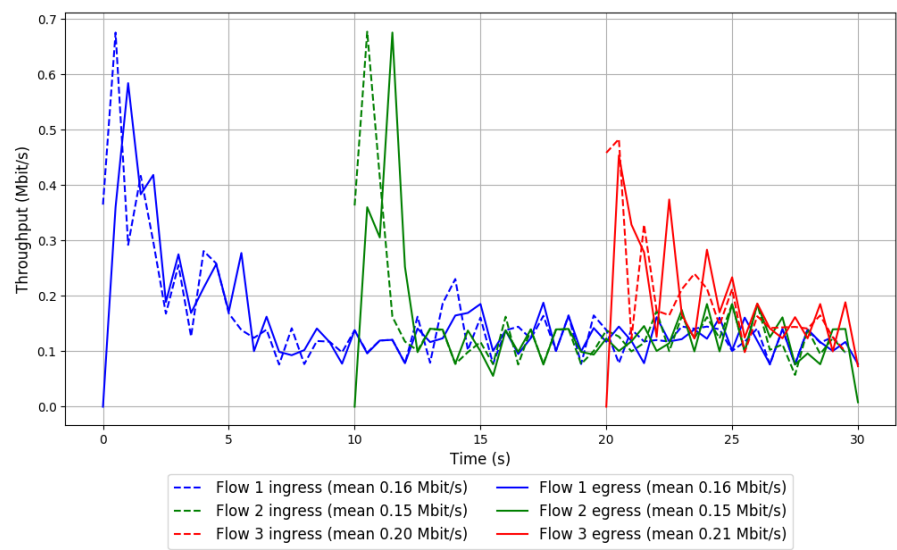


Run 10: Statistics of Sprout

Start at: 2018-07-11 18:42:34  
End at: 2018-07-11 18:43:04  
Local clock offset: -0.311 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-07-11 21:14:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 136.419 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 136.435 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 136.288 ms  
Loss rate: 1.59%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 136.262 ms  
Loss rate: 0.79%

Run 10: Report of Sprout — Data Link



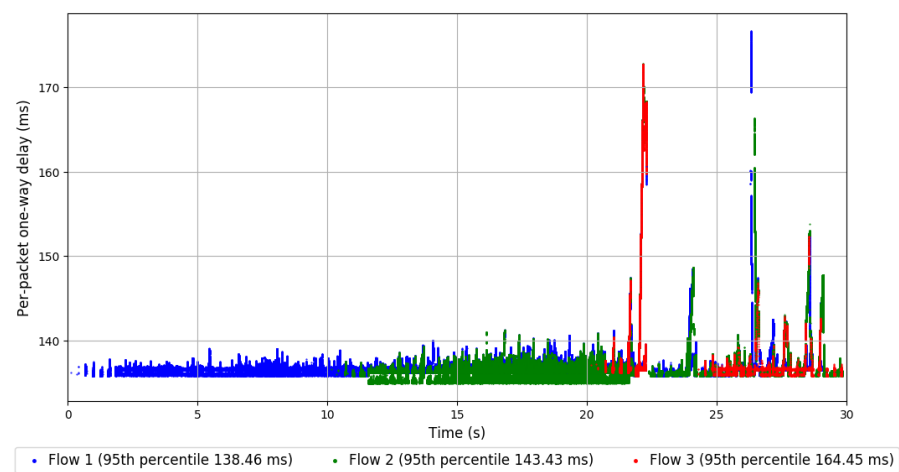
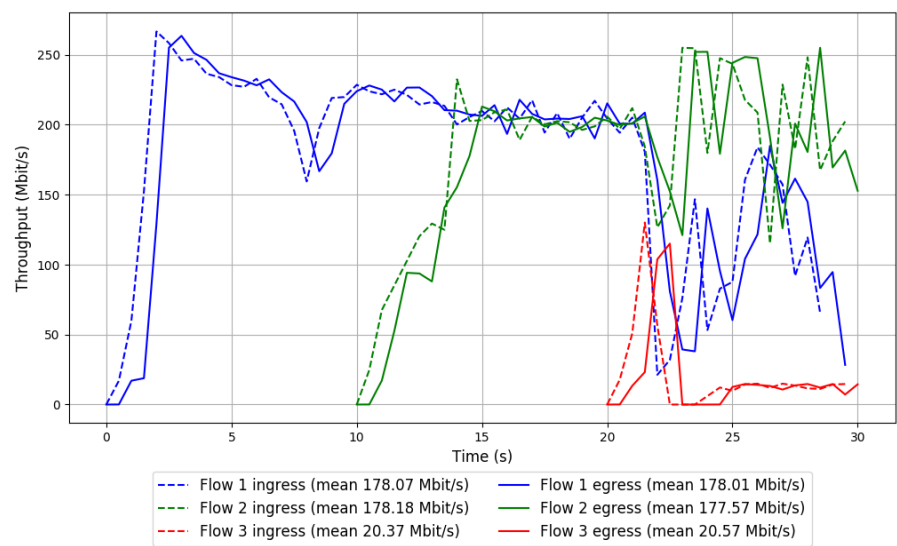
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-11 14:56:02  
End at: 2018-07-11 14:56:32  
Local clock offset: 0.117 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-07-11 21:17:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 297.84 Mbit/s  
95th percentile per-packet one-way delay: 140.136 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 178.01 Mbit/s  
95th percentile per-packet one-way delay: 138.458 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 177.57 Mbit/s  
95th percentile per-packet one-way delay: 143.431 ms  
Loss rate: 1.70%  
-- Flow 3:  
Average throughput: 20.57 Mbit/s  
95th percentile per-packet one-way delay: 164.446 ms  
Loss rate: 1.81%



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-11 15:23:09

End at: 2018-07-11 15:23:39

Local clock offset: -0.073 ms

Remote clock offset: 0.239 ms

# Below is generated by plot.py at 2018-07-11 21:17:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.19 Mbit/s

95th percentile per-packet one-way delay: 135.797 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 9.45 Mbit/s

95th percentile per-packet one-way delay: 135.872 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 13.27 Mbit/s

95th percentile per-packet one-way delay: 135.756 ms

Loss rate: 1.41%

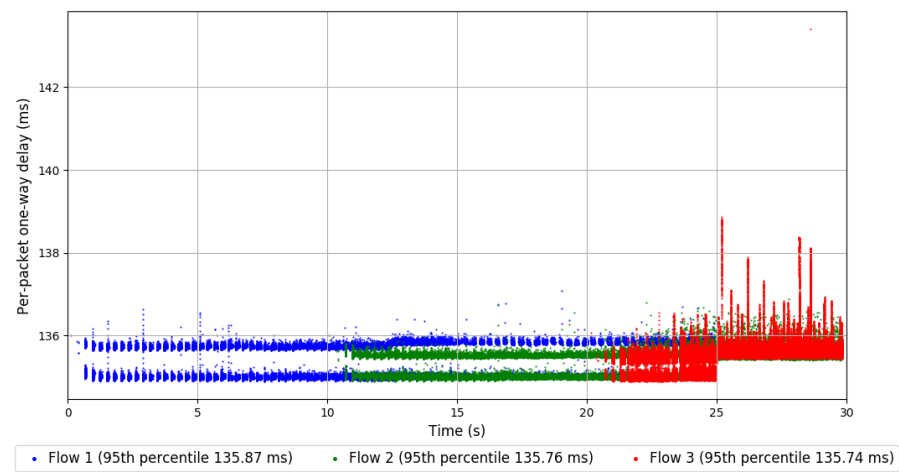
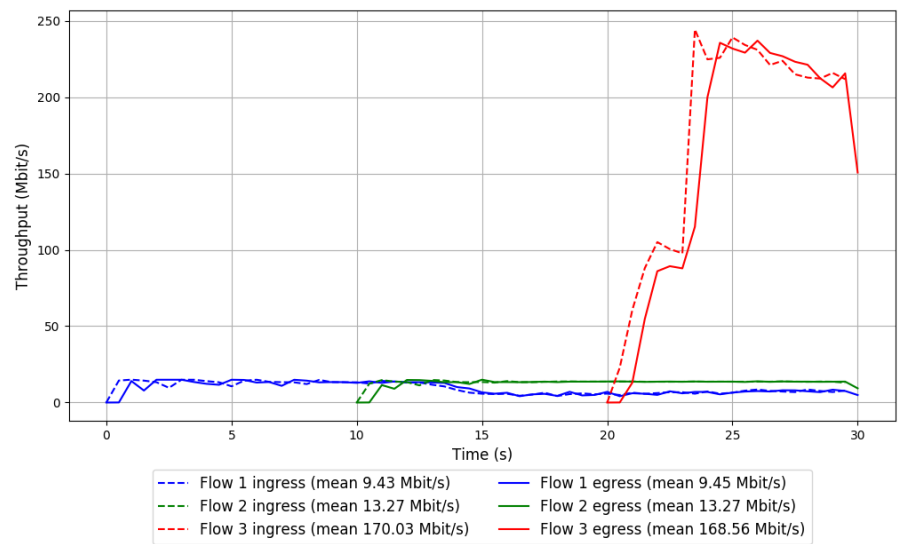
-- Flow 3:

Average throughput: 168.56 Mbit/s

95th percentile per-packet one-way delay: 135.740 ms

Loss rate: 3.59%

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

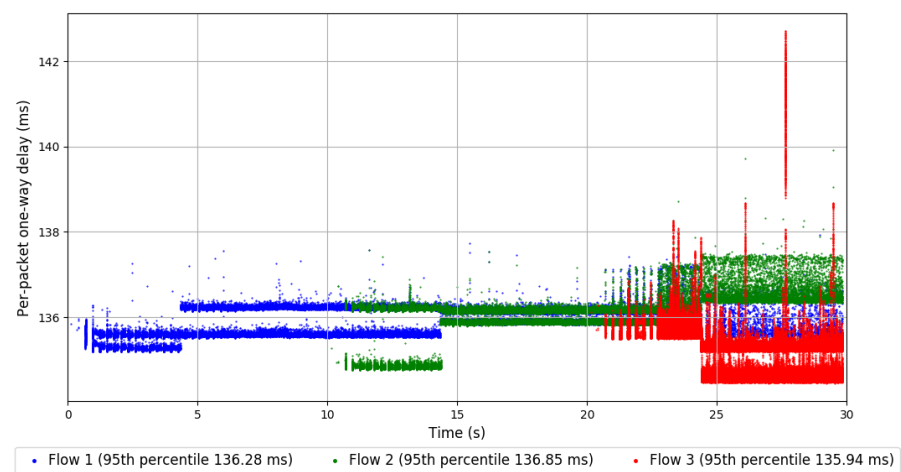
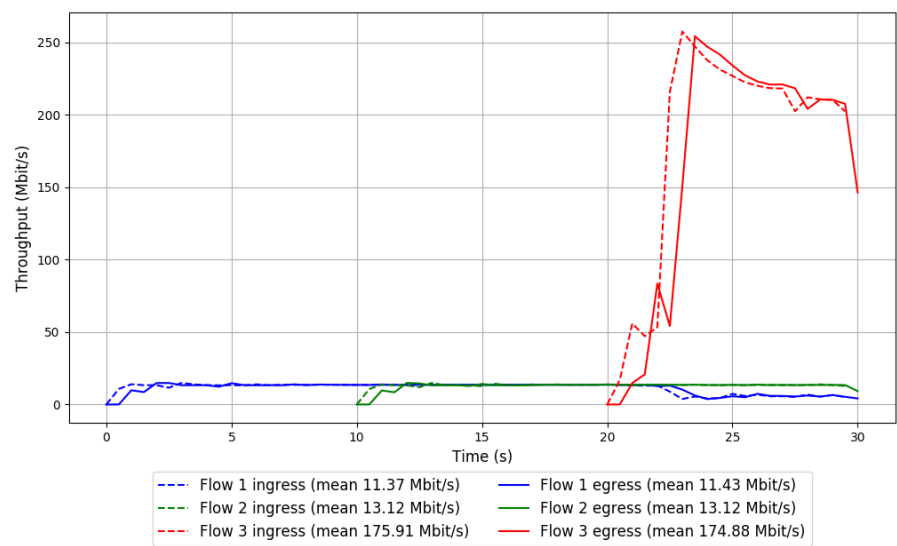


Run 3: Statistics of TaoVA-100x

Start at: 2018-07-11 15:49:59  
End at: 2018-07-11 15:50:29  
Local clock offset: -0.093 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-07-11 21:17:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.18 Mbit/s  
95th percentile per-packet one-way delay: 136.238 ms  
Loss rate: 2.69%  
-- Flow 1:  
Average throughput: 11.43 Mbit/s  
95th percentile per-packet one-way delay: 136.278 ms  
Loss rate: 0.46%  
-- Flow 2:  
Average throughput: 13.12 Mbit/s  
95th percentile per-packet one-way delay: 136.846 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 174.88 Mbit/s  
95th percentile per-packet one-way delay: 135.935 ms  
Loss rate: 3.31%

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

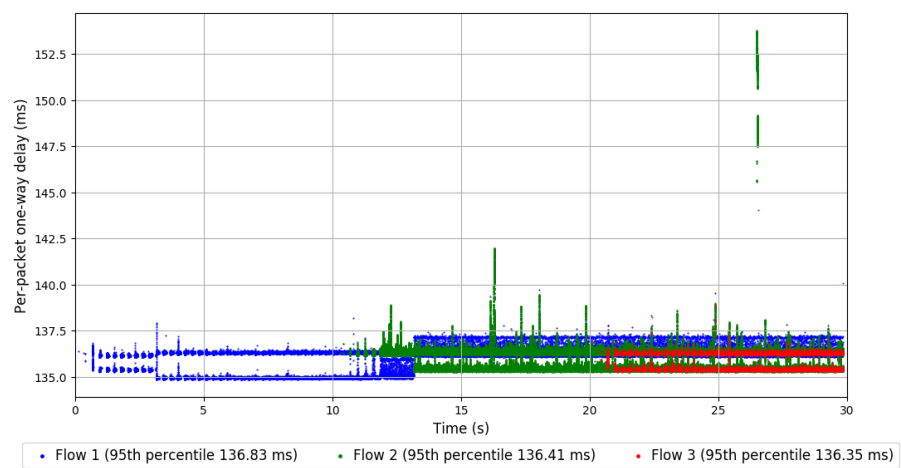
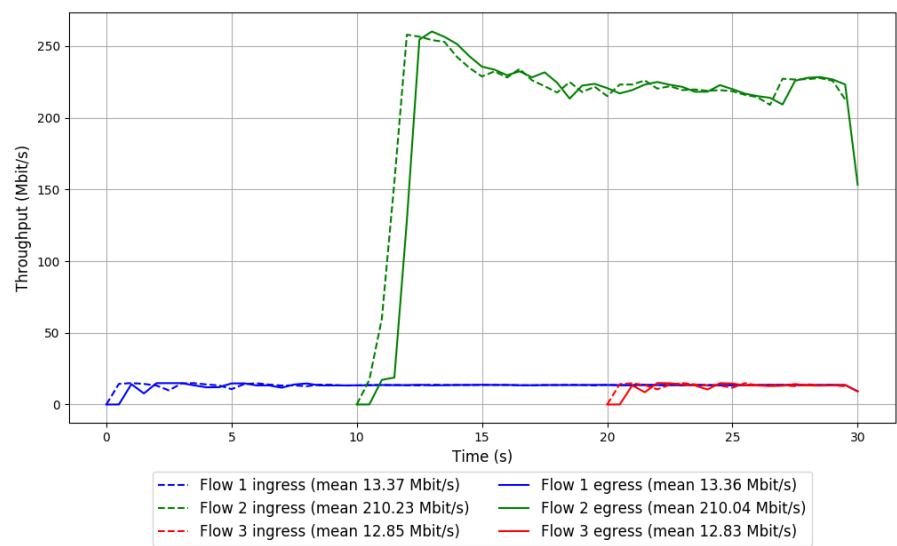


Run 4: Statistics of TaoVA-100x

Start at: 2018-07-11 16:16:10  
End at: 2018-07-11 16:16:40  
Local clock offset: -0.063 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-07-11 21:17:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 156.83 Mbit/s  
95th percentile per-packet one-way delay: 136.418 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 13.36 Mbit/s  
95th percentile per-packet one-way delay: 136.828 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 210.04 Mbit/s  
95th percentile per-packet one-way delay: 136.410 ms  
Loss rate: 1.46%  
-- Flow 3:  
Average throughput: 12.83 Mbit/s  
95th percentile per-packet one-way delay: 136.347 ms  
Loss rate: 2.84%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-11 16:43:14

End at: 2018-07-11 16:43:44

Local clock offset: 0.13 ms

Remote clock offset: 0.31 ms

# Below is generated by plot.py at 2018-07-11 21:19:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 339.56 Mbit/s

95th percentile per-packet one-way delay: 136.899 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 211.50 Mbit/s

95th percentile per-packet one-way delay: 136.449 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 187.49 Mbit/s

95th percentile per-packet one-way delay: 138.416 ms

Loss rate: 1.40%

-- Flow 3:

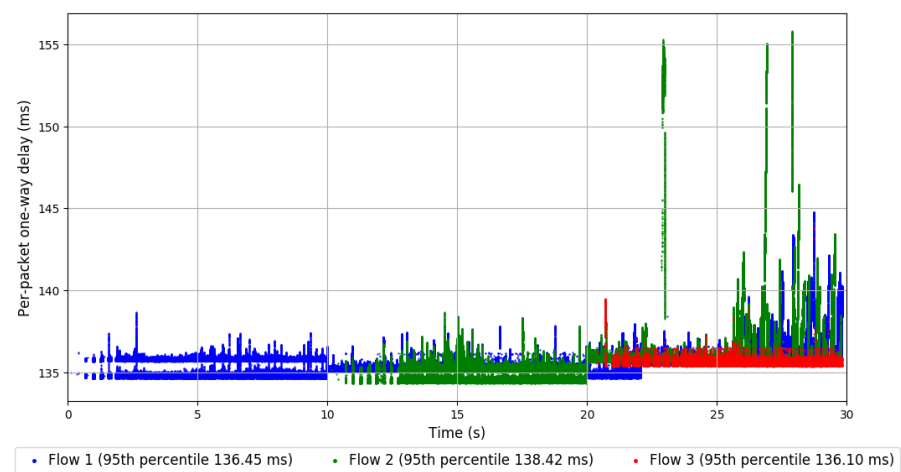
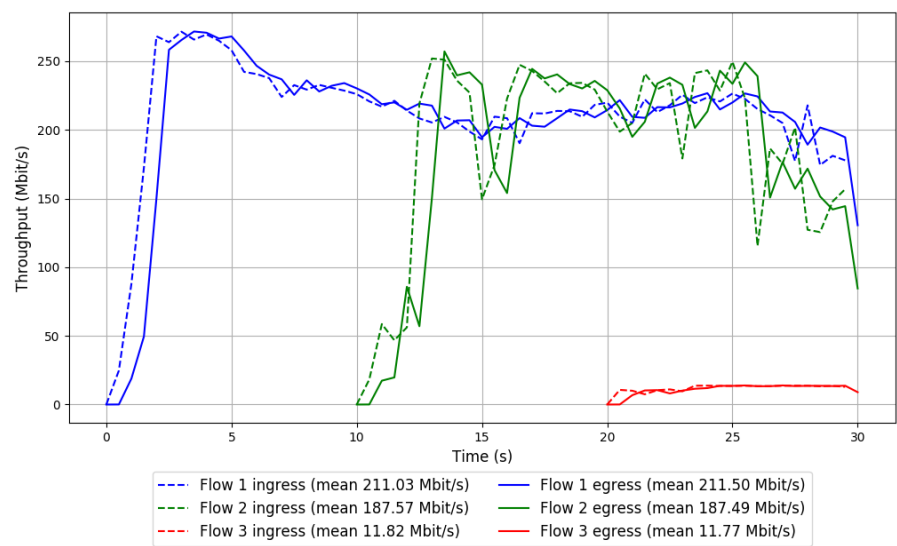
Average throughput: 11.77 Mbit/s

95th percentile per-packet one-way delay: 136.101 ms

Loss rate: 3.16%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-11 17:10:30

End at: 2018-07-11 17:11:00

Local clock offset: -0.035 ms

Remote clock offset: 0.267 ms

# Below is generated by plot.py at 2018-07-11 21:19:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 26.26 Mbit/s

95th percentile per-packet one-way delay: 136.019 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 136.021 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 13.21 Mbit/s

95th percentile per-packet one-way delay: 136.016 ms

Loss rate: 1.41%

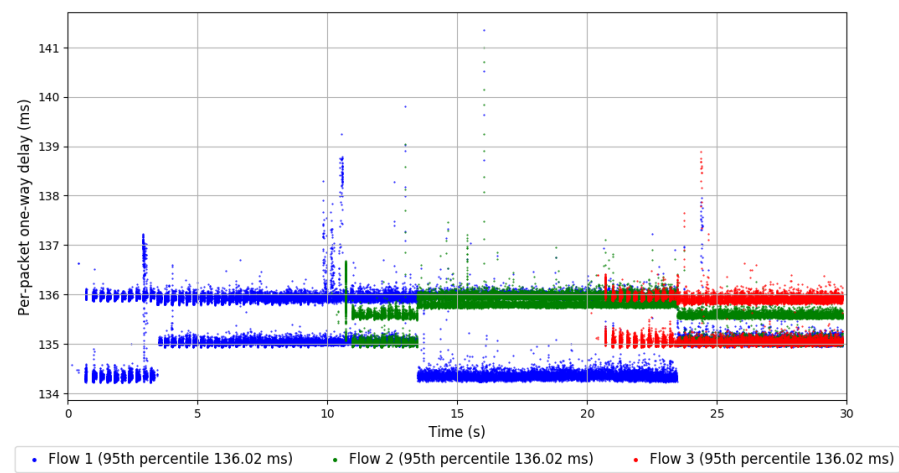
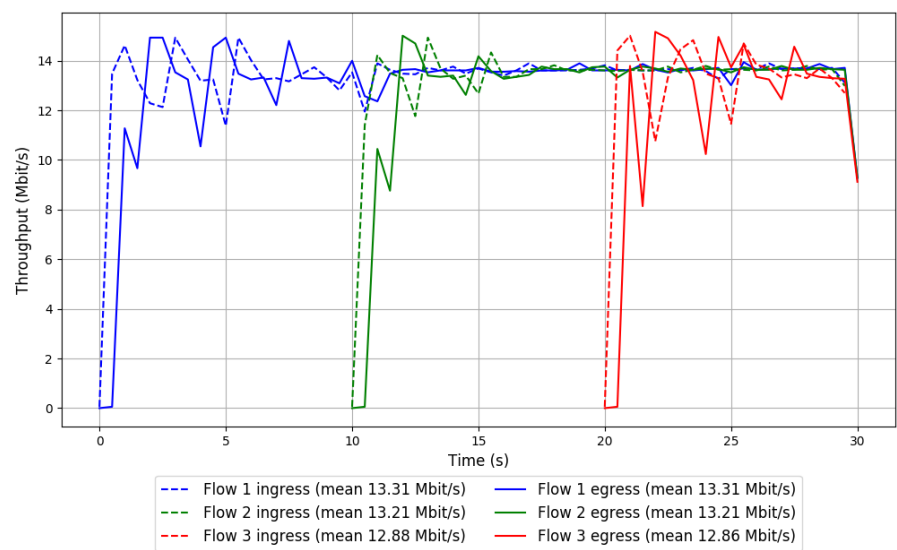
-- Flow 3:

Average throughput: 12.86 Mbit/s

95th percentile per-packet one-way delay: 136.016 ms

Loss rate: 2.90%

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

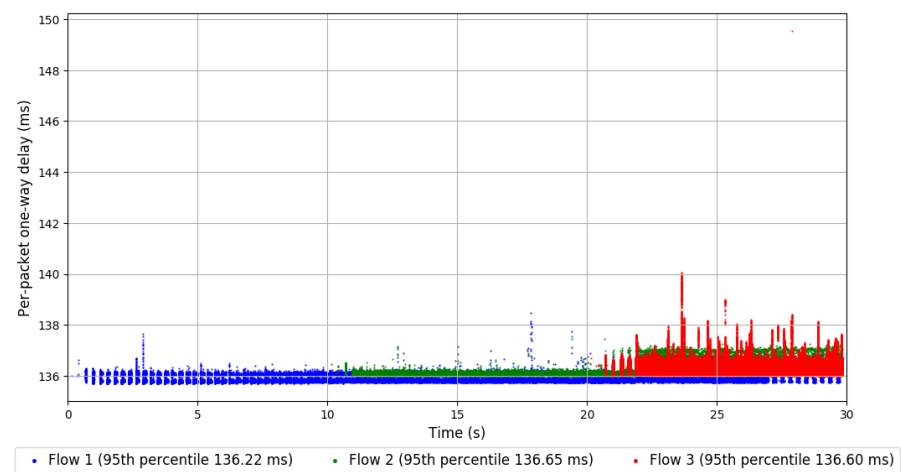
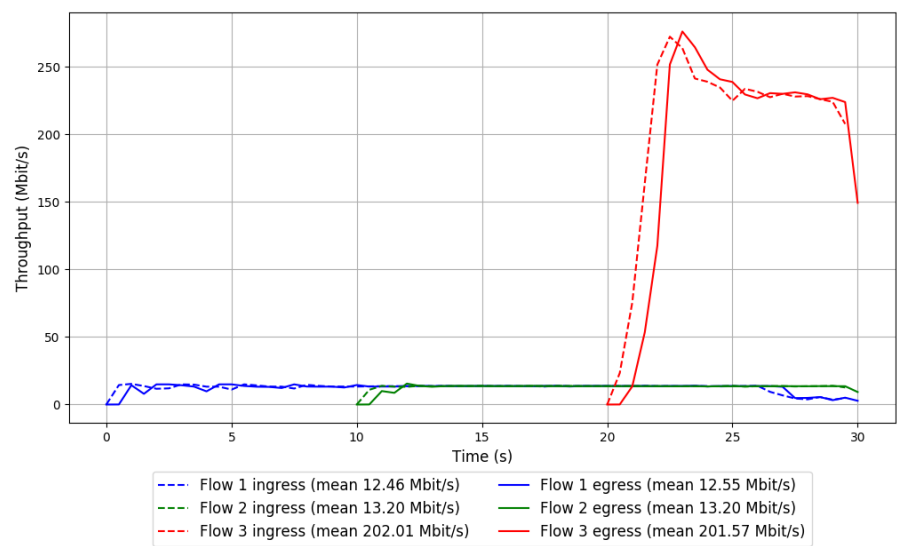


Run 7: Statistics of TaoVA-100x

Start at: 2018-07-11 17:37:05  
End at: 2018-07-11 17:37:35  
Local clock offset: -0.159 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.99 Mbit/s  
95th percentile per-packet one-way delay: 136.586 ms  
Loss rate: 2.44%  
-- Flow 1:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 136.218 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 13.20 Mbit/s  
95th percentile per-packet one-way delay: 136.645 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 201.57 Mbit/s  
95th percentile per-packet one-way delay: 136.599 ms  
Loss rate: 2.97%

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

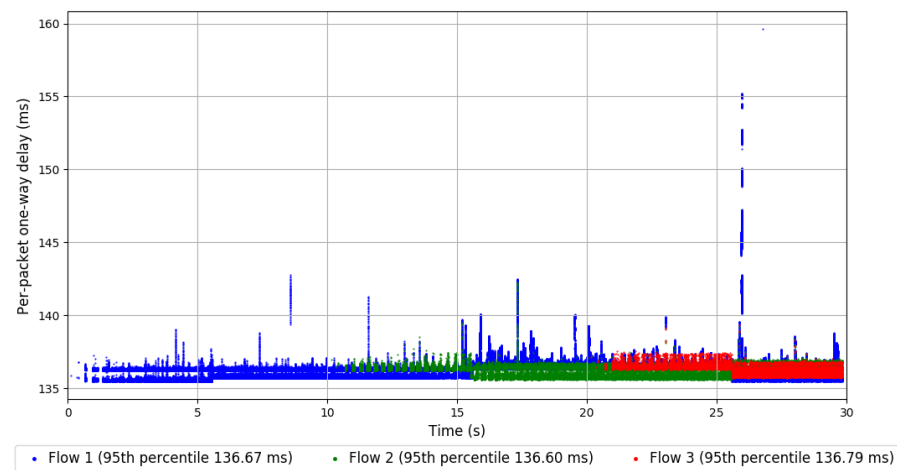
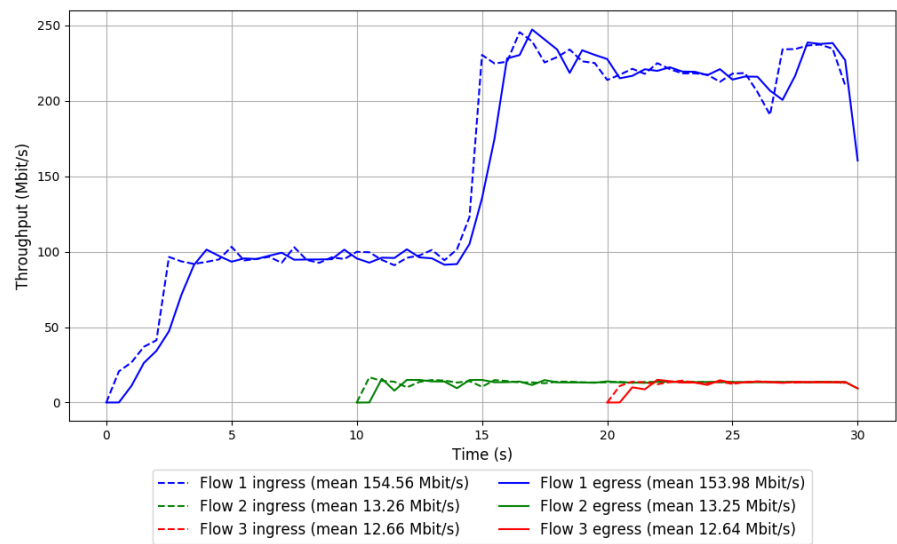


Run 8: Statistics of TaoVA-100x

Start at: 2018-07-11 18:03:48  
End at: 2018-07-11 18:04:18  
Local clock offset: 0.073 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 166.89 Mbit/s  
95th percentile per-packet one-way delay: 136.671 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 153.98 Mbit/s  
95th percentile per-packet one-way delay: 136.671 ms  
Loss rate: 1.28%  
-- Flow 2:  
Average throughput: 13.25 Mbit/s  
95th percentile per-packet one-way delay: 136.605 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 12.64 Mbit/s  
95th percentile per-packet one-way delay: 136.790 ms  
Loss rate: 2.95%

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



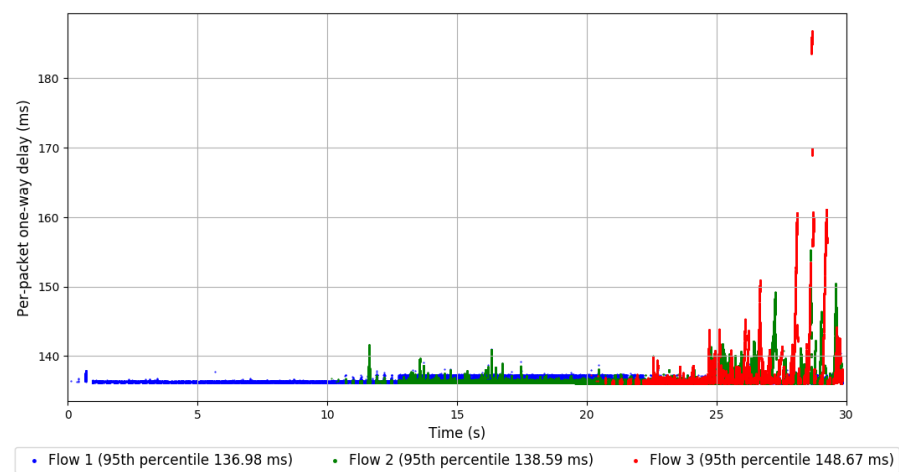
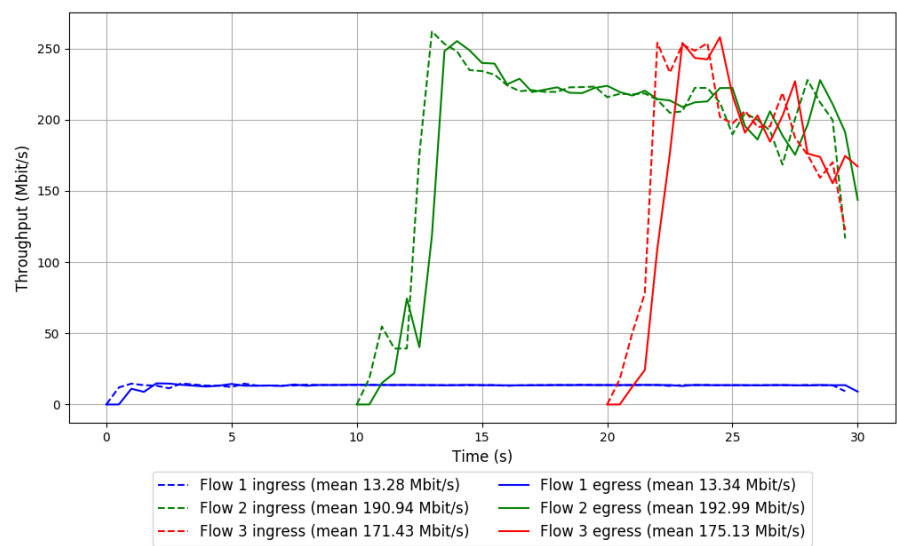
Run 9: Statistics of TaoVA-100x

Start at: 2018-07-11 18:30:34  
End at: 2018-07-11 18:31:04  
Local clock offset: -0.063 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 198.14 Mbit/s  
95th percentile per-packet one-way delay: 140.536 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 13.34 Mbit/s  
95th percentile per-packet one-way delay: 136.981 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 192.99 Mbit/s  
95th percentile per-packet one-way delay: 138.586 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 175.13 Mbit/s  
95th percentile per-packet one-way delay: 148.669 ms  
Loss rate: 0.71%



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

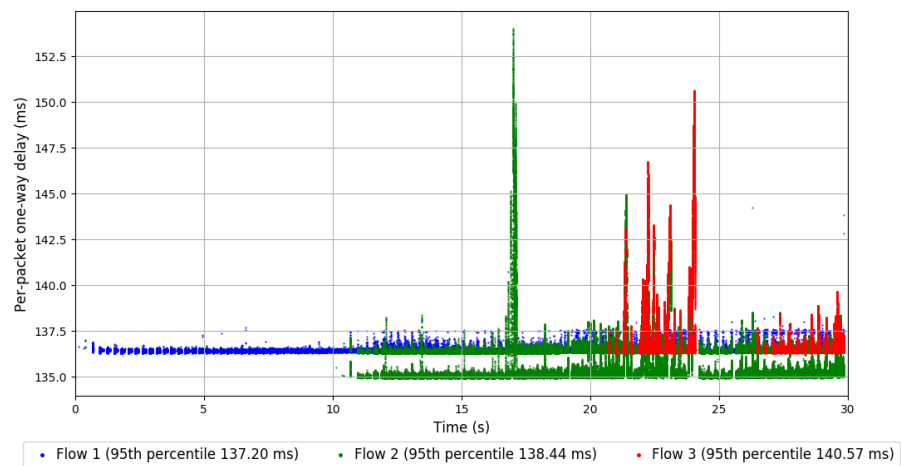
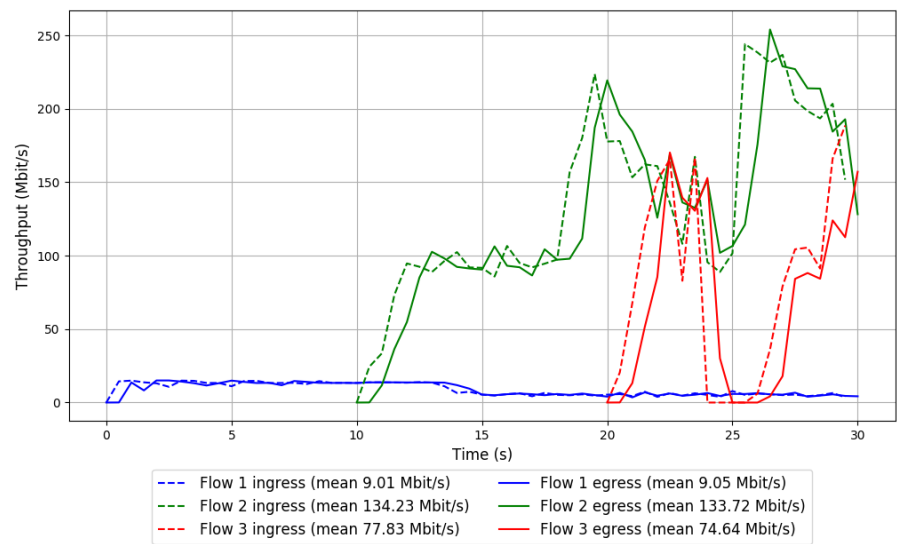


Run 10: Statistics of TaoVA-100x

Start at: 2018-07-11 18:57:18  
End at: 2018-07-11 18:57:48  
Local clock offset: 0.053 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 122.05 Mbit/s  
95th percentile per-packet one-way delay: 138.945 ms  
Loss rate: 2.60%  
-- Flow 1:  
Average throughput: 9.05 Mbit/s  
95th percentile per-packet one-way delay: 137.200 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 133.72 Mbit/s  
95th percentile per-packet one-way delay: 138.437 ms  
Loss rate: 1.62%  
-- Flow 3:  
Average throughput: 74.64 Mbit/s  
95th percentile per-packet one-way delay: 140.574 ms  
Loss rate: 6.75%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-11 14:52:29

End at: 2018-07-11 14:52:59

Local clock offset: -0.276 ms

Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-07-11 21:19:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.24 Mbit/s

95th percentile per-packet one-way delay: 149.764 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 150.377 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 150.353 ms

Loss rate: 2.93%

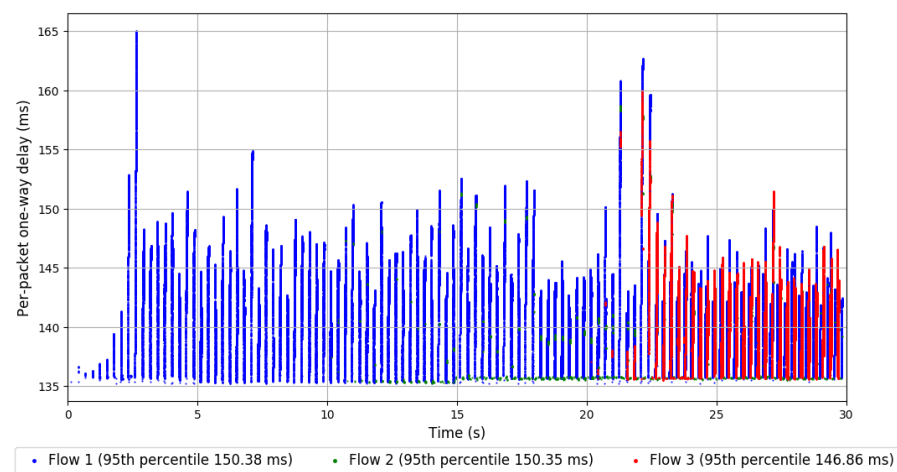
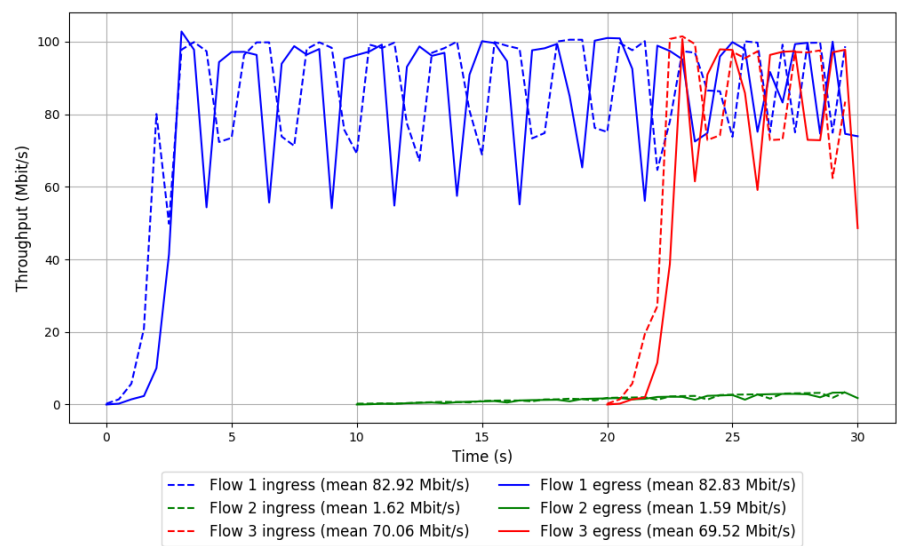
-- Flow 3:

Average throughput: 69.52 Mbit/s

95th percentile per-packet one-way delay: 146.864 ms

Loss rate: 3.52%

Run 1: Report of TCP Vegas — Data Link

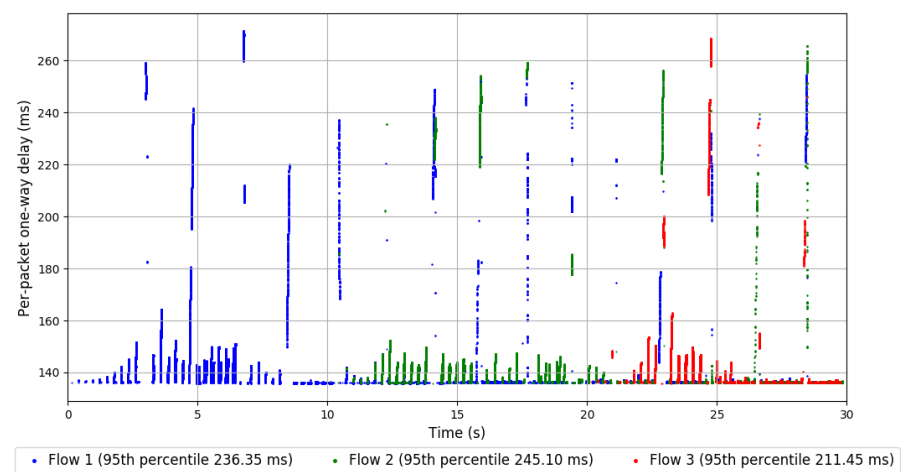
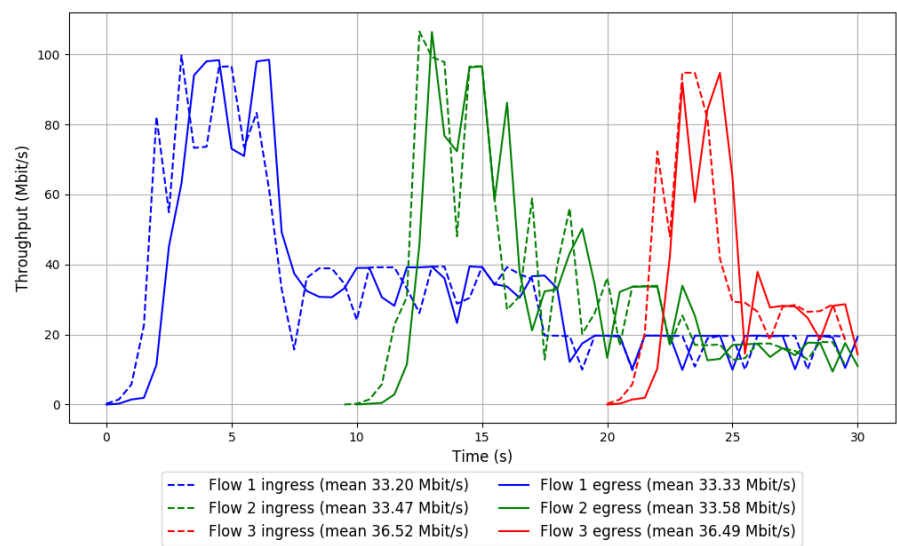


Run 2: Statistics of TCP Vegas

Start at: 2018-07-11 15:19:39  
End at: 2018-07-11 15:20:09  
Local clock offset: -0.154 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.40 Mbit/s  
95th percentile per-packet one-way delay: 238.586 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 33.33 Mbit/s  
95th percentile per-packet one-way delay: 236.353 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 33.58 Mbit/s  
95th percentile per-packet one-way delay: 245.103 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 36.49 Mbit/s  
95th percentile per-packet one-way delay: 211.453 ms  
Loss rate: 2.81%

Run 2: Report of TCP Vegas — Data Link



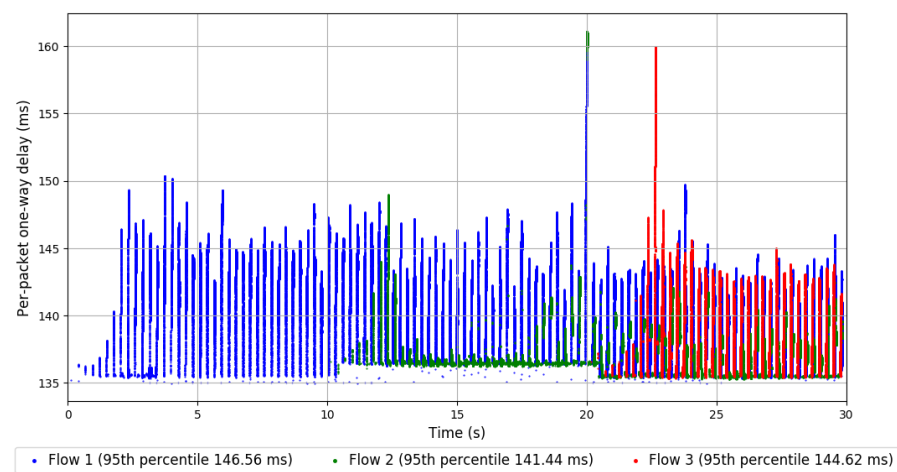
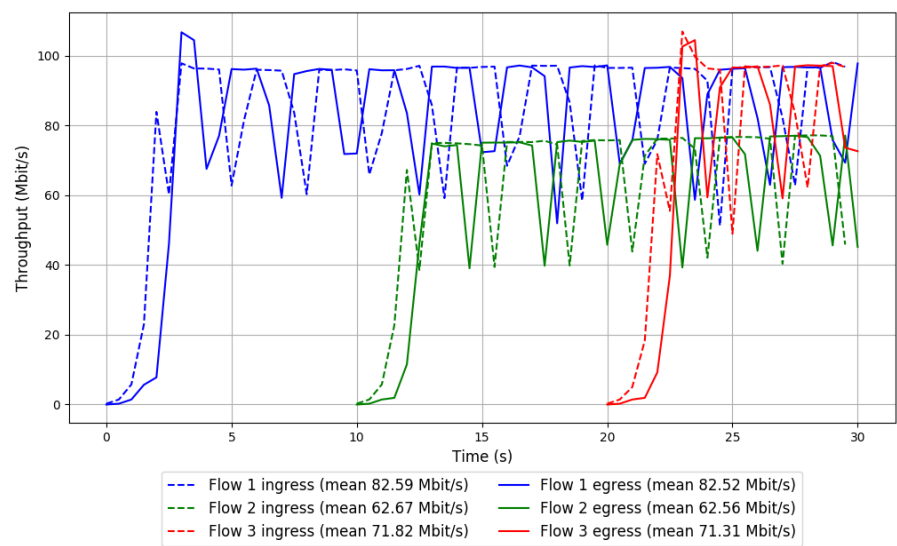
Run 3: Statistics of TCP Vegas

Start at: 2018-07-11 15:46:23  
End at: 2018-07-11 15:46:53  
Local clock offset: -0.027 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 147.16 Mbit/s  
95th percentile per-packet one-way delay: 145.990 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 82.52 Mbit/s  
95th percentile per-packet one-way delay: 146.562 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 62.56 Mbit/s  
95th percentile per-packet one-way delay: 141.445 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 71.31 Mbit/s  
95th percentile per-packet one-way delay: 144.622 ms  
Loss rate: 3.40%



Run 3: Report of TCP Vegas — Data Link

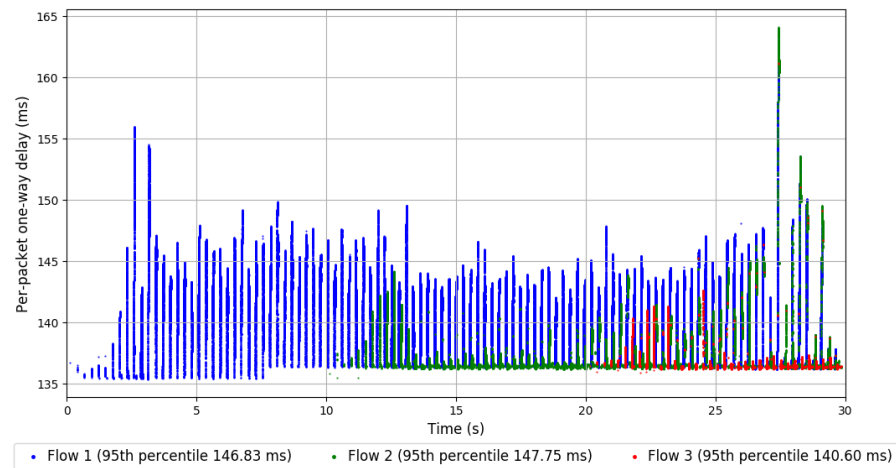
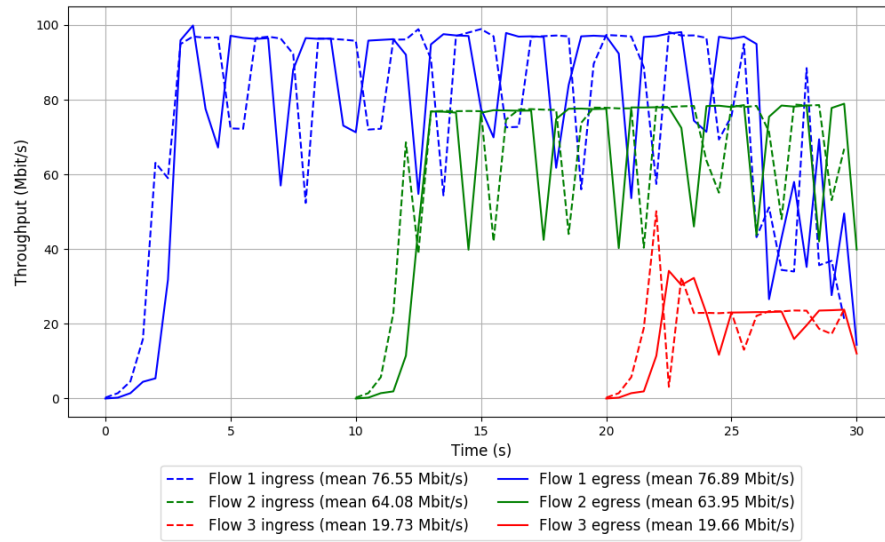


Run 4: Statistics of TCP Vegas

Start at: 2018-07-11 16:12:56  
End at: 2018-07-11 16:13:26  
Local clock offset: -0.036 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 125.14 Mbit/s  
95th percentile per-packet one-way delay: 146.766 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 76.89 Mbit/s  
95th percentile per-packet one-way delay: 146.830 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 63.95 Mbit/s  
95th percentile per-packet one-way delay: 147.749 ms  
Loss rate: 1.55%  
-- Flow 3:  
Average throughput: 19.66 Mbit/s  
95th percentile per-packet one-way delay: 140.605 ms  
Loss rate: 3.05%

# Run 4: Report of TCP Vegas — Data Link

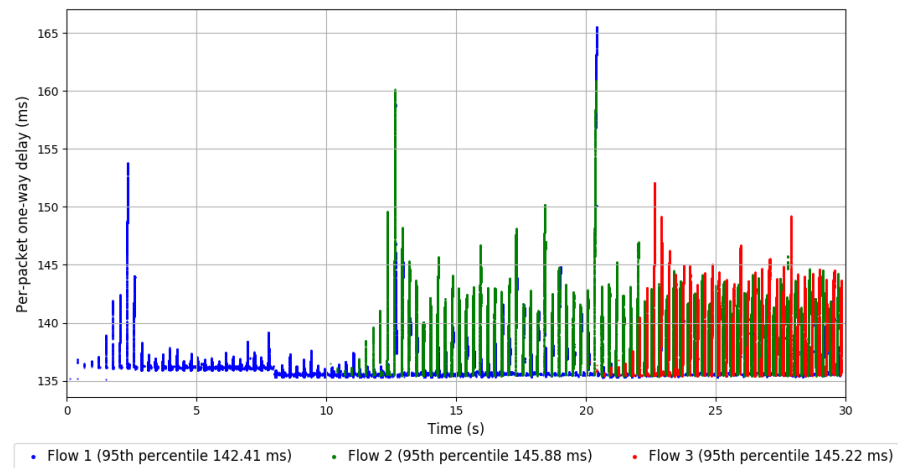
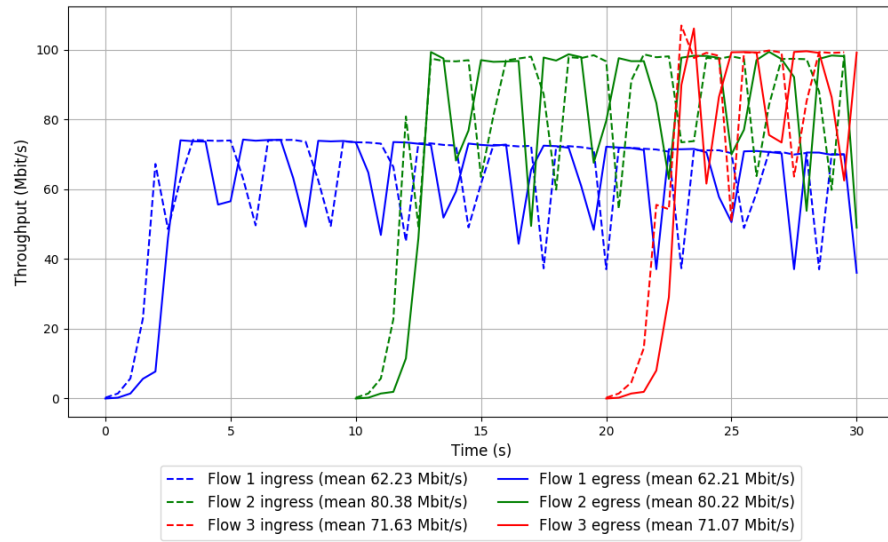


Run 5: Statistics of TCP Vegas

Start at: 2018-07-11 16:39:36  
End at: 2018-07-11 16:40:06  
Local clock offset: -0.026 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 138.19 Mbit/s  
95th percentile per-packet one-way delay: 144.491 ms  
Loss rate: 1.61%  
-- Flow 1:  
Average throughput: 62.21 Mbit/s  
95th percentile per-packet one-way delay: 142.407 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 80.22 Mbit/s  
95th percentile per-packet one-way delay: 145.875 ms  
Loss rate: 1.56%  
-- Flow 3:  
Average throughput: 71.07 Mbit/s  
95th percentile per-packet one-way delay: 145.222 ms  
Loss rate: 3.47%

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

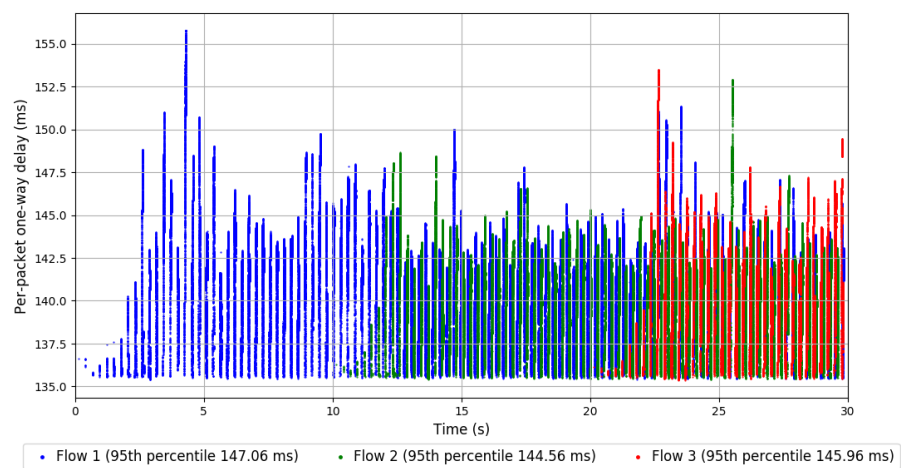
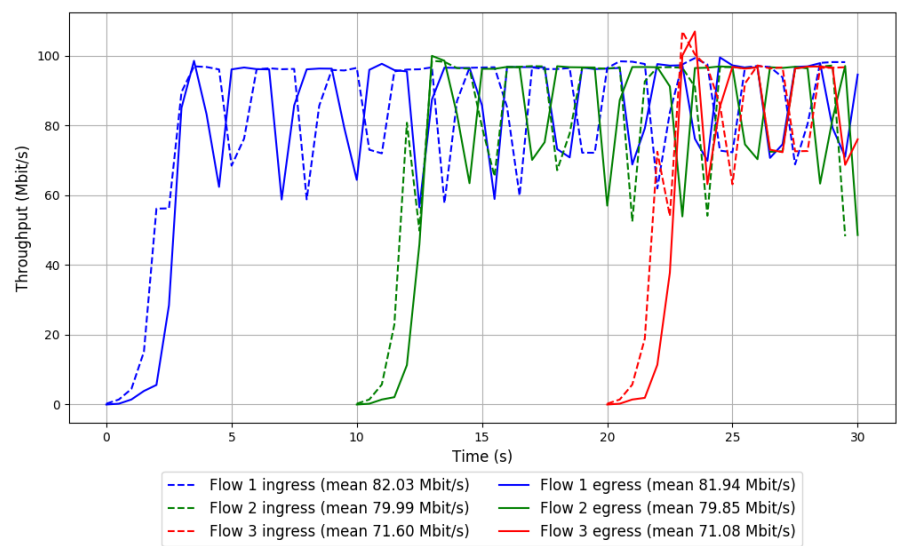


Run 6: Statistics of TCP Vegas

Start at: 2018-07-11 17:06:54  
End at: 2018-07-11 17:07:24  
Local clock offset: 0.033 ms  
Remote clock offset: -0.085 ms

```
# Below is generated by plot.py at 2018-07-11 21:19:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 157.48 Mbit/s
95th percentile per-packet one-way delay: 146.272 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 81.94 Mbit/s
95th percentile per-packet one-way delay: 147.065 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 79.85 Mbit/s
95th percentile per-packet one-way delay: 144.559 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 71.08 Mbit/s
95th percentile per-packet one-way delay: 145.955 ms
Loss rate: 3.41%
```

Run 6: Report of TCP Vegas — Data Link



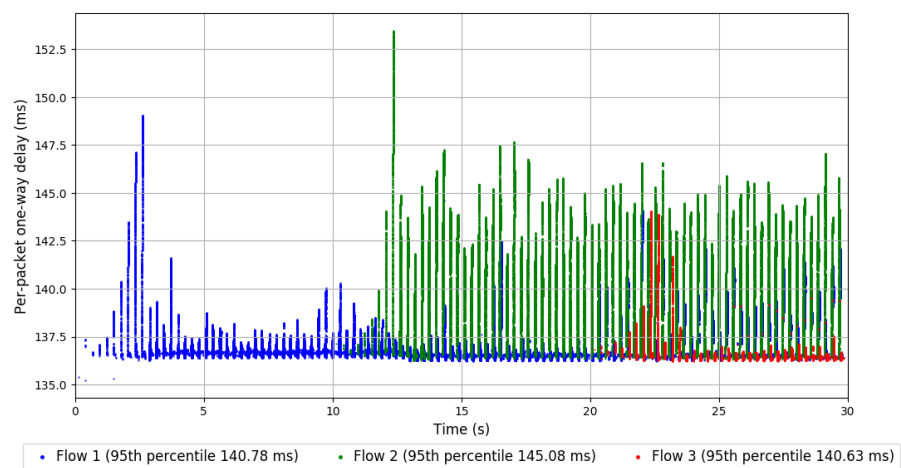
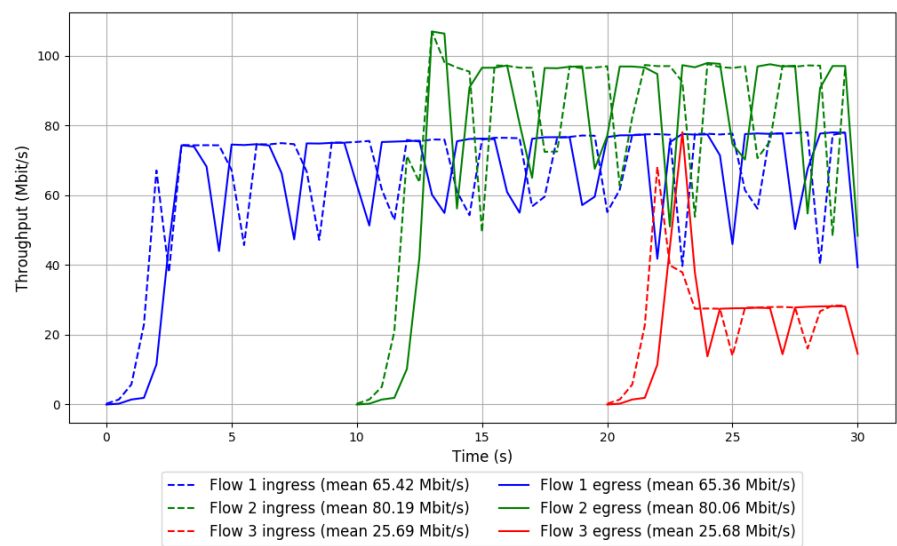
Run 7: Statistics of TCP Vegas

Start at: 2018-07-11 17:33:31  
End at: 2018-07-11 17:34:01  
Local clock offset: 0.073 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.42 Mbit/s  
95th percentile per-packet one-way delay: 144.215 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 65.36 Mbit/s  
95th percentile per-packet one-way delay: 140.785 ms  
Loss rate: 1.00%  
-- Flow 2:  
Average throughput: 80.06 Mbit/s  
95th percentile per-packet one-way delay: 145.082 ms  
Loss rate: 1.52%  
-- Flow 3:  
Average throughput: 25.68 Mbit/s  
95th percentile per-packet one-way delay: 140.634 ms  
Loss rate: 2.78%



Run 7: Report of TCP Vegas — Data Link

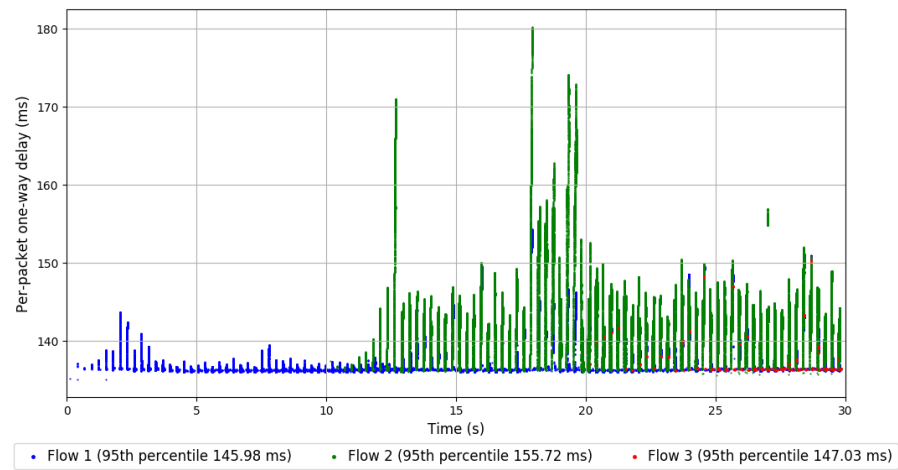
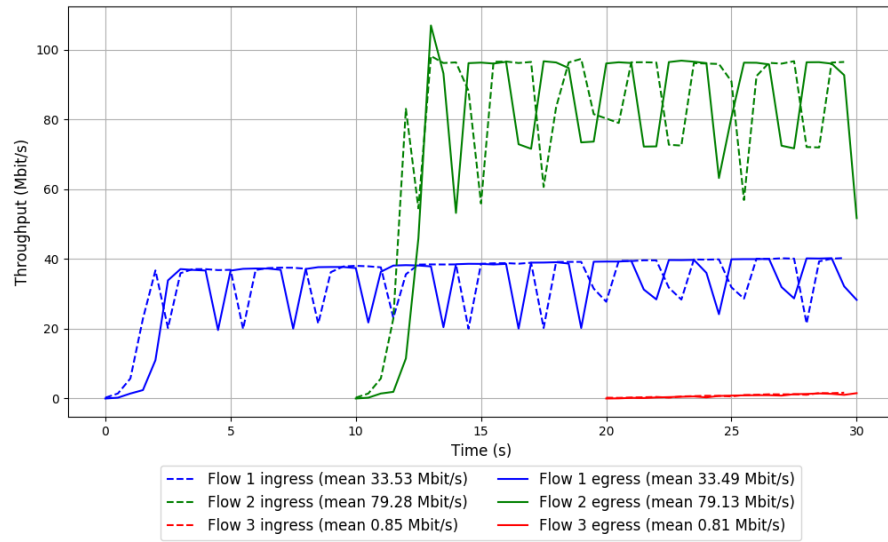


Run 8: Statistics of TCP Vegas

Start at: 2018-07-11 18:00:20  
End at: 2018-07-11 18:00:50  
Local clock offset: -0.092 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-07-11 21:19:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.04 Mbit/s  
95th percentile per-packet one-way delay: 151.680 ms  
Loss rate: 1.34%  
-- Flow 1:  
Average throughput: 33.49 Mbit/s  
95th percentile per-packet one-way delay: 145.979 ms  
Loss rate: 1.00%  
-- Flow 2:  
Average throughput: 79.13 Mbit/s  
95th percentile per-packet one-way delay: 155.720 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 0.81 Mbit/s  
95th percentile per-packet one-way delay: 147.028 ms  
Loss rate: 6.41%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-11 18:26:58

End at: 2018-07-11 18:27:28

Local clock offset: 0.178 ms

Remote clock offset: 0.242 ms

# Below is generated by plot.py at 2018-07-11 21:19:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 153.64 Mbit/s

95th percentile per-packet one-way delay: 144.548 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 78.19 Mbit/s

95th percentile per-packet one-way delay: 142.009 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 79.41 Mbit/s

95th percentile per-packet one-way delay: 144.998 ms

Loss rate: 1.54%

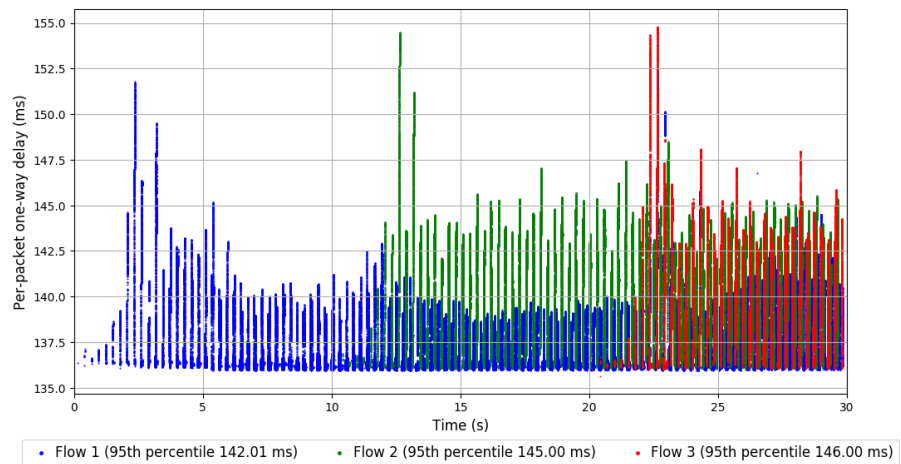
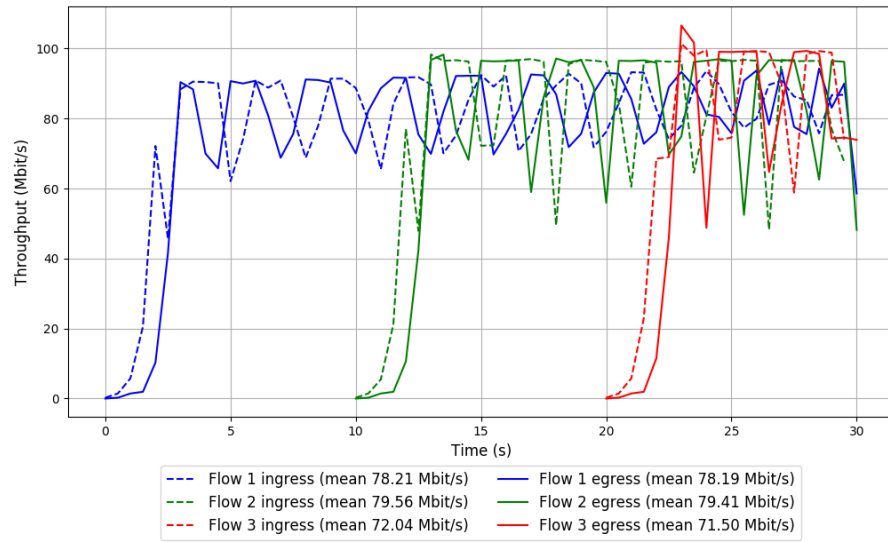
-- Flow 3:

Average throughput: 71.50 Mbit/s

95th percentile per-packet one-way delay: 145.998 ms

Loss rate: 3.44%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-07-11 18:53:49

End at: 2018-07-11 18:54:19

Local clock offset: 0.012 ms

Remote clock offset: 0.289 ms

# Below is generated by plot.py at 2018-07-11 21:19:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.63 Mbit/s

95th percentile per-packet one-way delay: 154.110 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 25.95 Mbit/s

95th percentile per-packet one-way delay: 155.283 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 153.599 ms

Loss rate: 1.56%

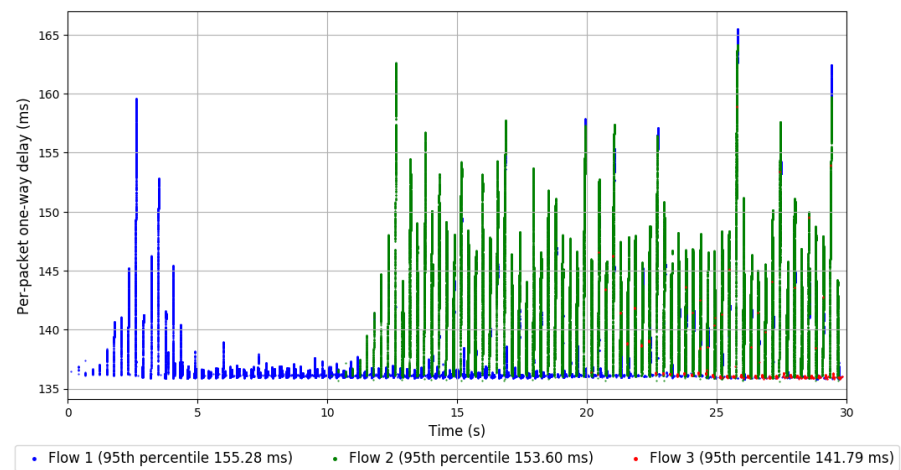
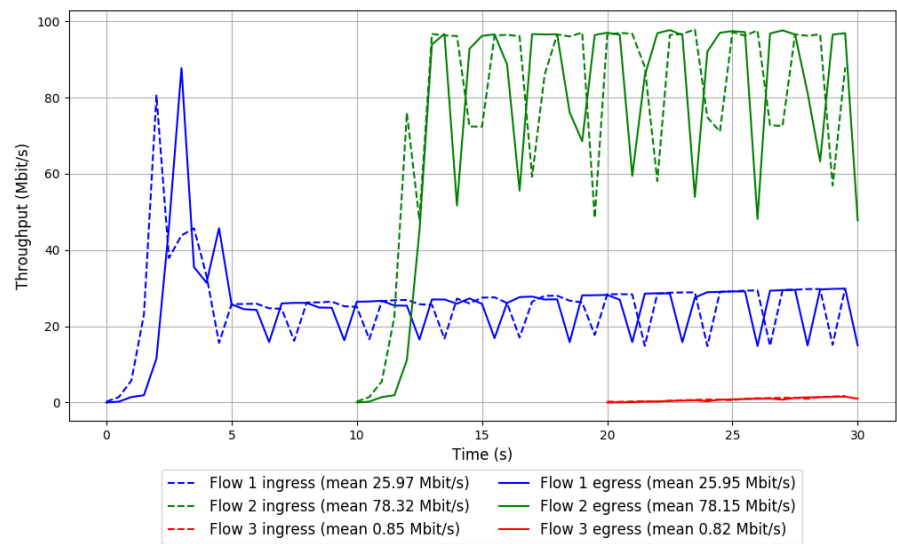
-- Flow 3:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 141.792 ms

Loss rate: 6.27%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-11 14:45:38

End at: 2018-07-11 14:46:08

Local clock offset: 0.182 ms

Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2018-07-11 21:20:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 189.72 Mbit/s

95th percentile per-packet one-way delay: 263.685 ms

Loss rate: 6.00%

-- Flow 1:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 181.515 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.18 Mbit/s

95th percentile per-packet one-way delay: 206.971 ms

Loss rate: 4.39%

-- Flow 3:

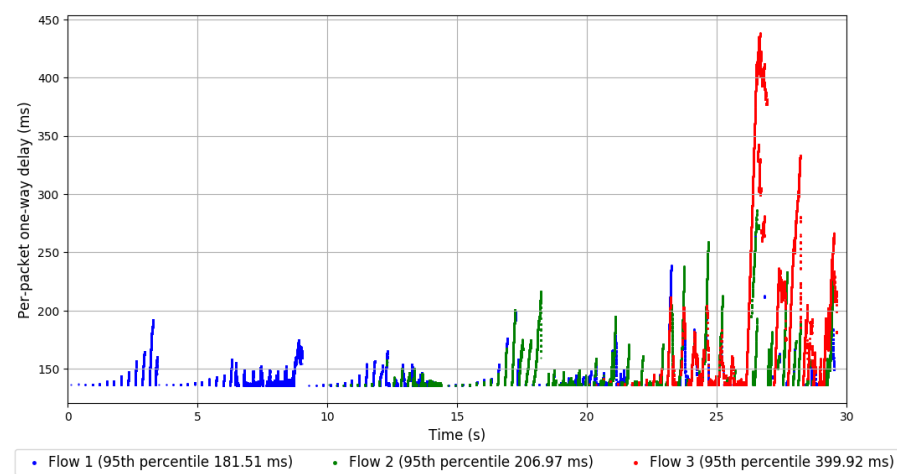
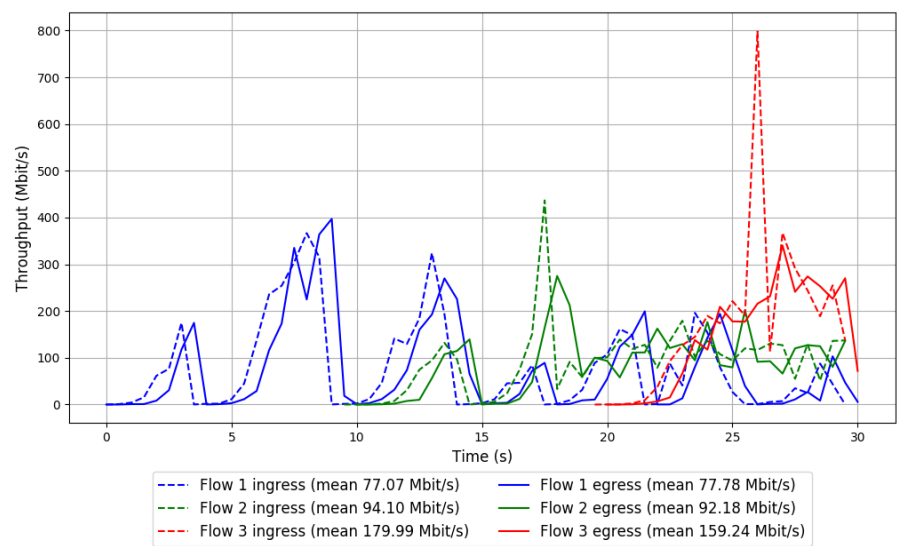
Average throughput: 159.24 Mbit/s

95th percentile per-packet one-way delay: 399.918 ms

Loss rate: 15.34%



Run 1: Report of Verus — Data Link

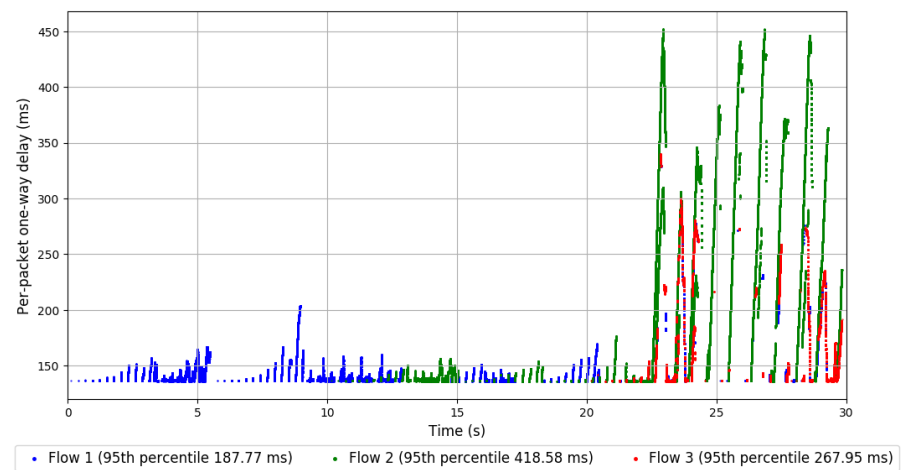
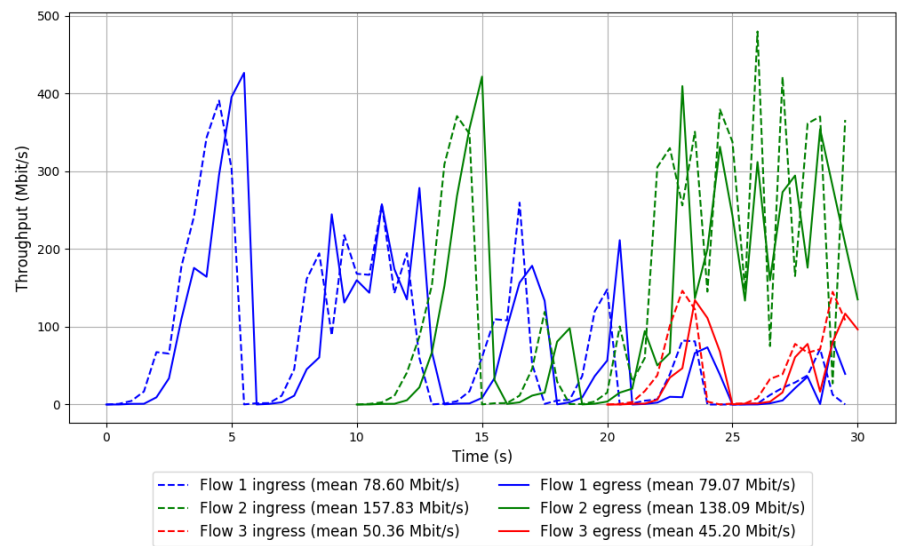


Run 2: Statistics of Verus

Start at: 2018-07-11 15:12:50  
End at: 2018-07-11 15:13:20  
Local clock offset: -0.059 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-07-11 21:21:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 184.45 Mbit/s  
95th percentile per-packet one-way delay: 369.986 ms  
Loss rate: 8.03%  
-- Flow 1:  
Average throughput: 79.07 Mbit/s  
95th percentile per-packet one-way delay: 187.768 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 138.09 Mbit/s  
95th percentile per-packet one-way delay: 418.579 ms  
Loss rate: 13.25%  
-- Flow 3:  
Average throughput: 45.20 Mbit/s  
95th percentile per-packet one-way delay: 267.946 ms  
Loss rate: 11.25%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-11 15:39:36

End at: 2018-07-11 15:40:06

Local clock offset: 0.046 ms

Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-07-11 21:22:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 213.29 Mbit/s

95th percentile per-packet one-way delay: 264.952 ms

Loss rate: 2.87%

-- Flow 1:

Average throughput: 151.06 Mbit/s

95th percentile per-packet one-way delay: 242.668 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 57.96 Mbit/s

95th percentile per-packet one-way delay: 287.107 ms

Loss rate: 3.11%

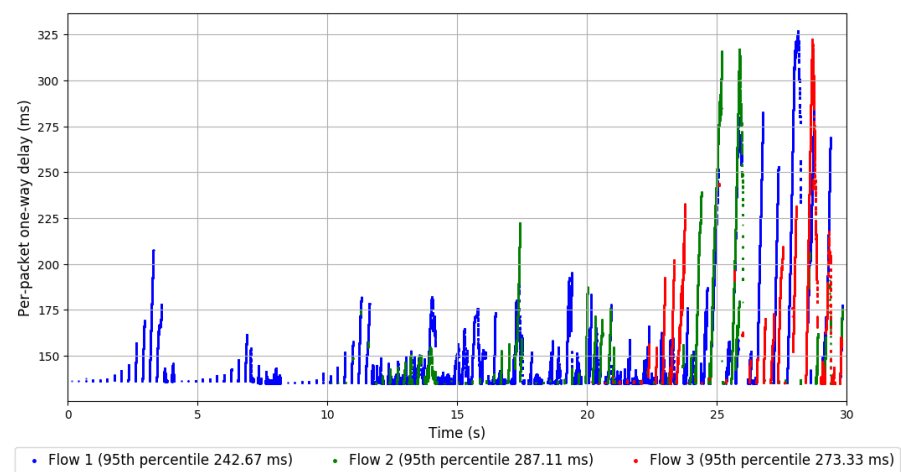
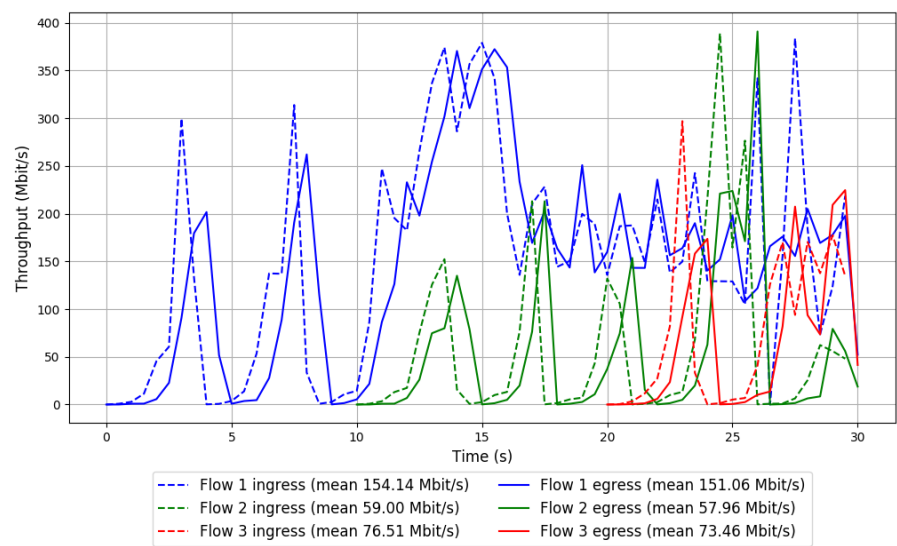
-- Flow 3:

Average throughput: 73.46 Mbit/s

95th percentile per-packet one-way delay: 273.335 ms

Loss rate: 6.96%

Run 3: Report of Verus — Data Link

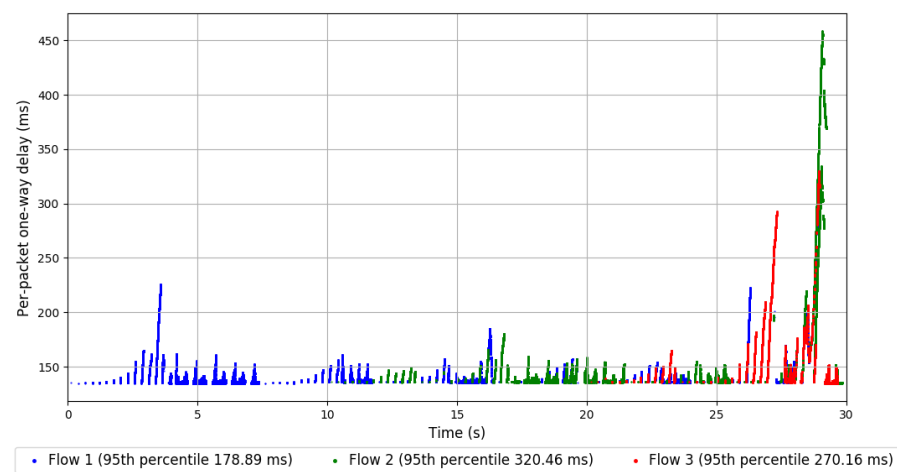
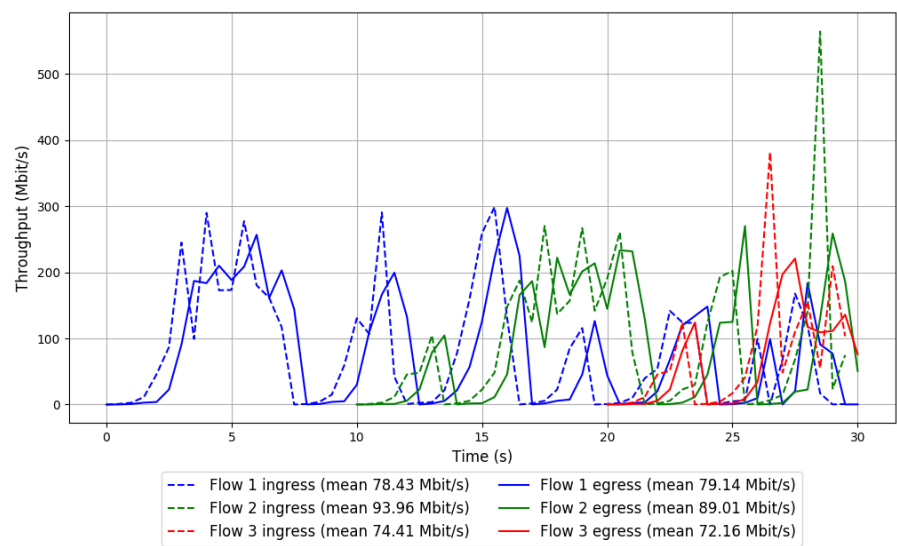


Run 4: Statistics of Verus

Start at: 2018-07-11 16:06:15  
End at: 2018-07-11 16:06:45  
Local clock offset: -0.034 ms  
Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2018-07-11 21:22:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 160.88 Mbit/s  
95th percentile per-packet one-way delay: 225.396 ms  
Loss rate: 3.36%  
-- Flow 1:  
Average throughput: 79.14 Mbit/s  
95th percentile per-packet one-way delay: 178.888 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 89.01 Mbit/s  
95th percentile per-packet one-way delay: 320.462 ms  
Loss rate: 5.99%  
-- Flow 3:  
Average throughput: 72.16 Mbit/s  
95th percentile per-packet one-way delay: 270.160 ms  
Loss rate: 7.34%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-11 16:32:50

End at: 2018-07-11 16:33:20

Local clock offset: 0.074 ms

Remote clock offset: 0.321 ms

# Below is generated by plot.py at 2018-07-11 21:22:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 236.25 Mbit/s

95th percentile per-packet one-way delay: 244.433 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 140.28 Mbit/s

95th percentile per-packet one-way delay: 220.652 ms

Loss rate: 1.28%

-- Flow 2:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 240.035 ms

Loss rate: 2.97%

-- Flow 3:

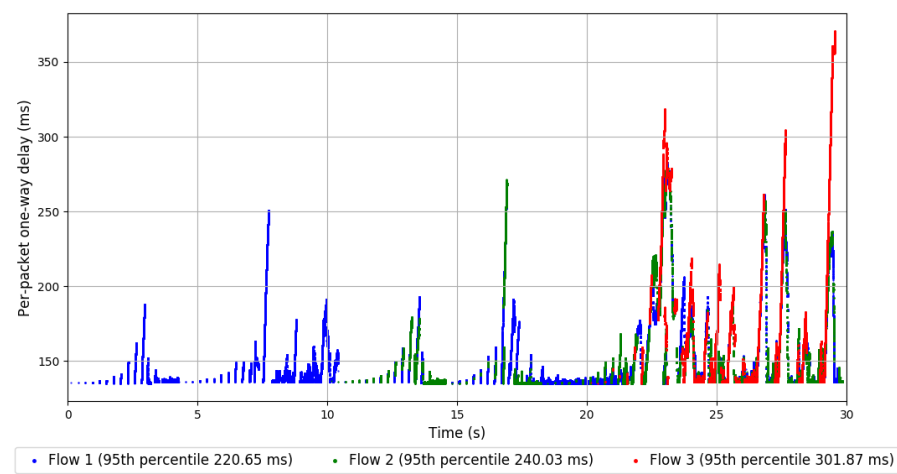
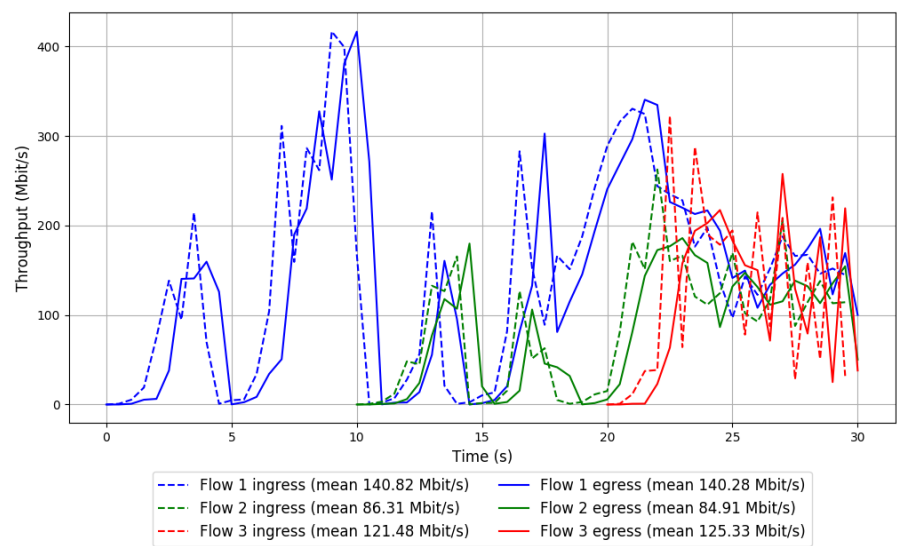
Average throughput: 125.33 Mbit/s

95th percentile per-packet one-way delay: 301.866 ms

Loss rate: 2.48%



Run 5: Report of Verus — Data Link

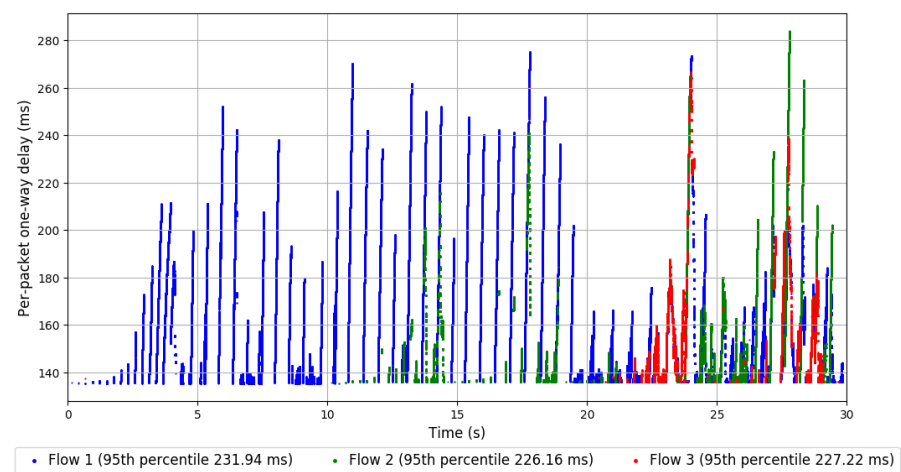
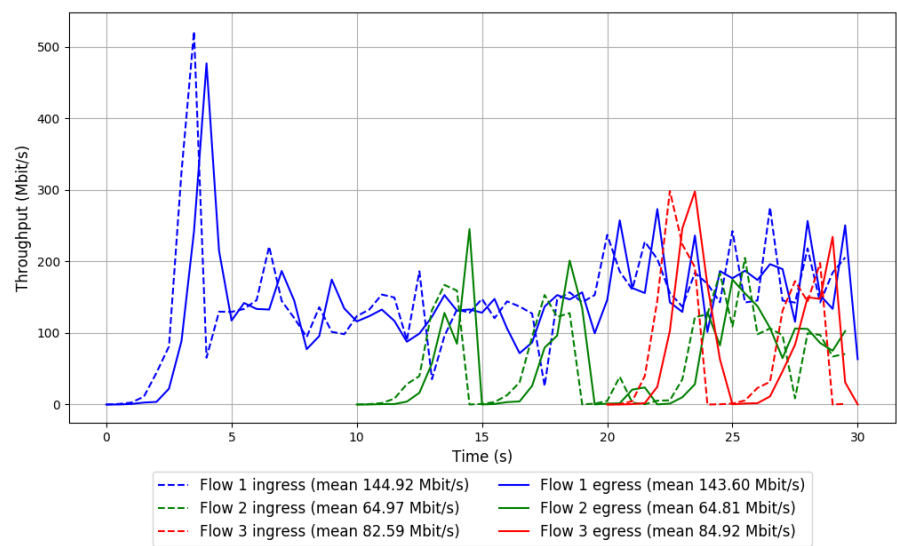


Run 6: Statistics of Verus

Start at: 2018-07-11 17:00:13  
End at: 2018-07-11 17:00:43  
Local clock offset: -0.095 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-07-11 21:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 212.84 Mbit/s  
95th percentile per-packet one-way delay: 230.054 ms  
Loss rate: 1.77%  
-- Flow 1:  
Average throughput: 143.60 Mbit/s  
95th percentile per-packet one-way delay: 231.941 ms  
Loss rate: 1.80%  
-- Flow 2:  
Average throughput: 64.81 Mbit/s  
95th percentile per-packet one-way delay: 226.156 ms  
Loss rate: 2.75%  
-- Flow 3:  
Average throughput: 84.92 Mbit/s  
95th percentile per-packet one-way delay: 227.217 ms  
Loss rate: 0.05%

Run 6: Report of Verus — Data Link

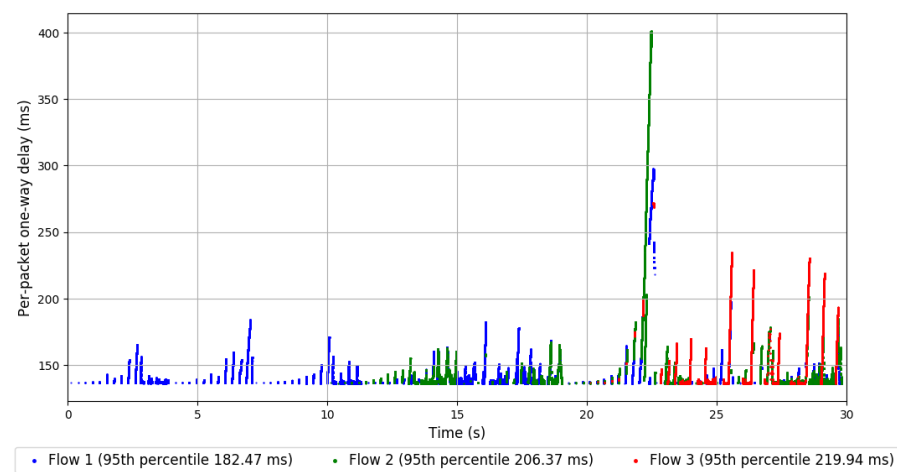
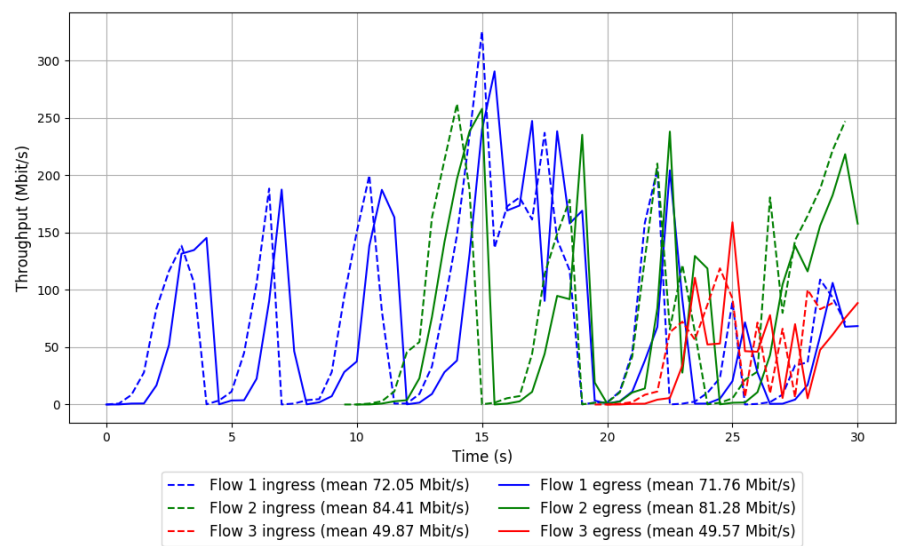


Run 7: Statistics of Verus

Start at: 2018-07-11 17:26:45  
End at: 2018-07-11 17:27:15  
Local clock offset: -0.125 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-07-11 21:22:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 141.60 Mbit/s  
95th percentile per-packet one-way delay: 213.562 ms  
Loss rate: 2.41%  
-- Flow 1:  
Average throughput: 71.76 Mbit/s  
95th percentile per-packet one-way delay: 182.467 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 81.28 Mbit/s  
95th percentile per-packet one-way delay: 206.374 ms  
Loss rate: 5.02%  
-- Flow 3:  
Average throughput: 49.57 Mbit/s  
95th percentile per-packet one-way delay: 219.936 ms  
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

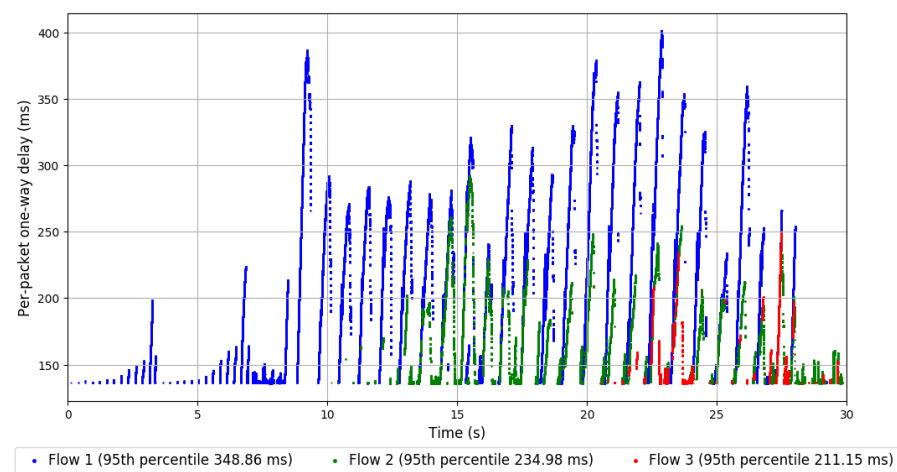
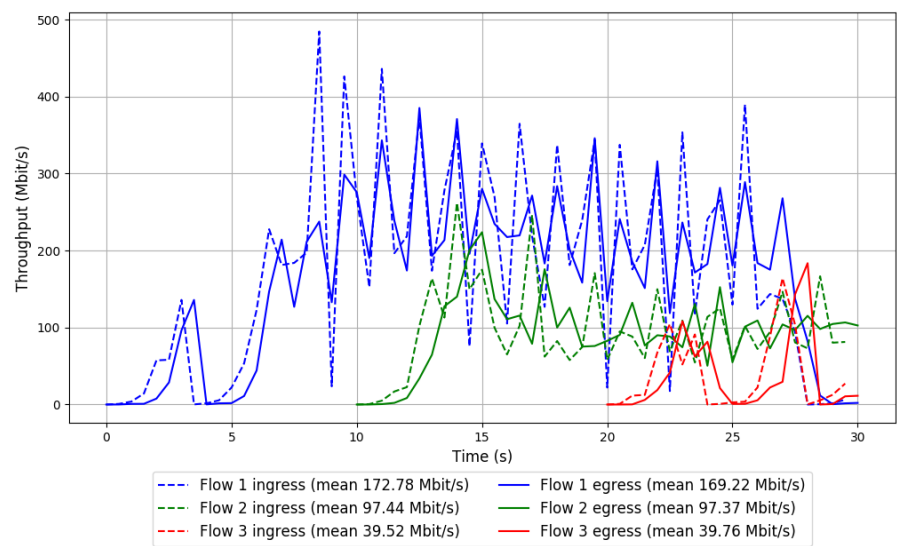


Run 8: Statistics of Verus

Start at: 2018-07-11 17:53:32  
End at: 2018-07-11 17:54:02  
Local clock offset: -0.159 ms  
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-07-11 21:24:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 245.98 Mbit/s  
95th percentile per-packet one-way delay: 340.062 ms  
Loss rate: 2.31%  
-- Flow 1:  
Average throughput: 169.22 Mbit/s  
95th percentile per-packet one-way delay: 348.861 ms  
Loss rate: 2.95%  
-- Flow 2:  
Average throughput: 97.37 Mbit/s  
95th percentile per-packet one-way delay: 234.980 ms  
Loss rate: 0.47%  
-- Flow 3:  
Average throughput: 39.76 Mbit/s  
95th percentile per-packet one-way delay: 211.149 ms  
Loss rate: 2.96%

Run 8: Report of Verus — Data Link



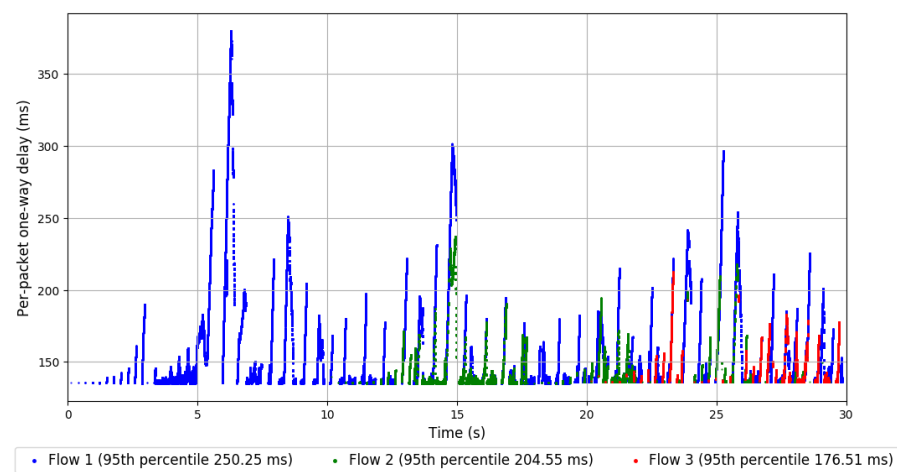
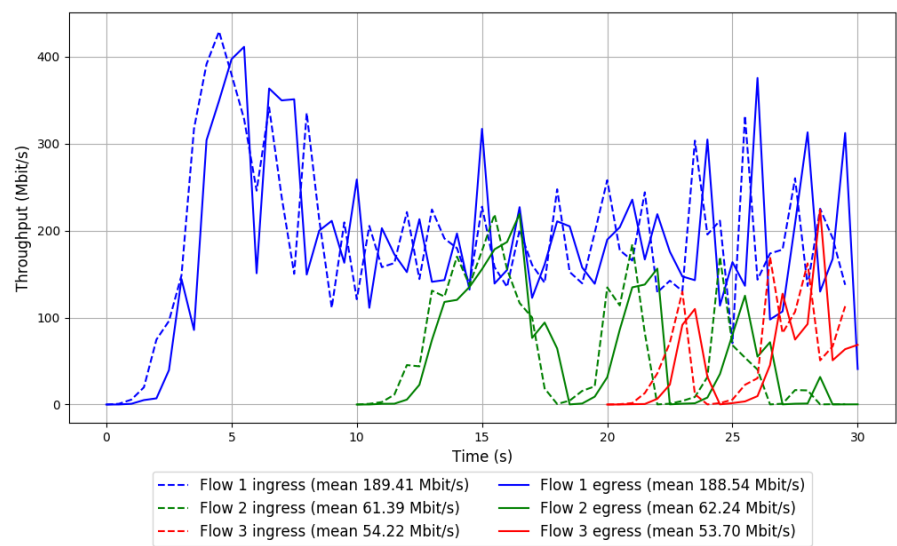
Run 9: Statistics of Verus

Start at: 2018-07-11 18:20:14  
End at: 2018-07-11 18:20:44  
Local clock offset: -0.119 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-07-11 21:25:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 246.64 Mbit/s  
95th percentile per-packet one-way delay: 237.241 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 188.54 Mbit/s  
95th percentile per-packet one-way delay: 250.248 ms  
Loss rate: 1.36%  
-- Flow 2:  
Average throughput: 62.24 Mbit/s  
95th percentile per-packet one-way delay: 204.552 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 53.70 Mbit/s  
95th percentile per-packet one-way delay: 176.513 ms  
Loss rate: 4.62%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-11 18:47:10

End at: 2018-07-11 18:47:40

Local clock offset: -0.092 ms

Remote clock offset: 0.238 ms

# Below is generated by plot.py at 2018-07-11 21:25:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 197.64 Mbit/s

95th percentile per-packet one-way delay: 174.629 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 161.881 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.55 Mbit/s

95th percentile per-packet one-way delay: 186.464 ms

Loss rate: 3.71%

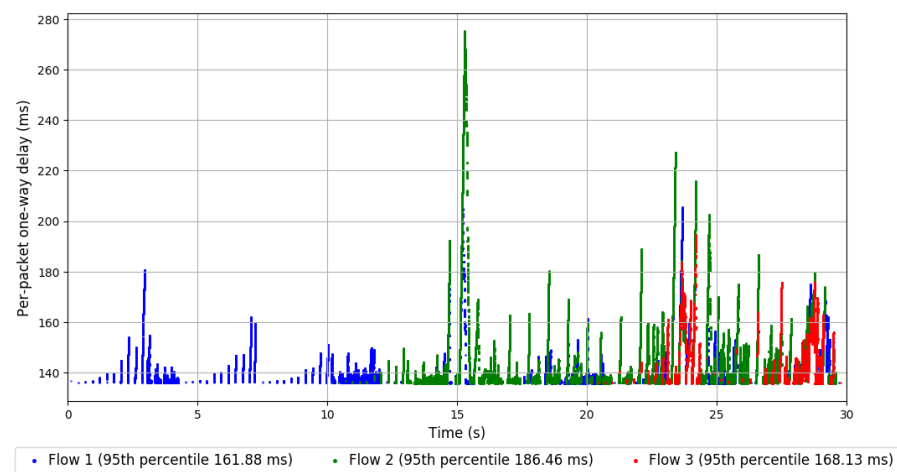
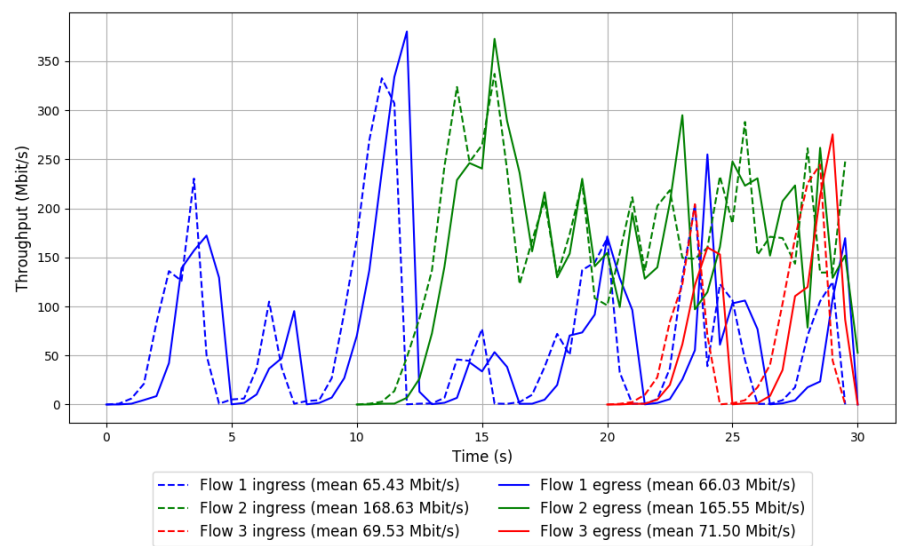
-- Flow 3:

Average throughput: 71.50 Mbit/s

95th percentile per-packet one-way delay: 168.133 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-11 14:57:50

End at: 2018-07-11 14:58:20

Local clock offset: -0.033 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-07-11 21:30:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 501.53 Mbit/s

95th percentile per-packet one-way delay: 190.919 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 325.17 Mbit/s

95th percentile per-packet one-way delay: 169.746 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 186.87 Mbit/s

95th percentile per-packet one-way delay: 235.786 ms

Loss rate: 2.06%

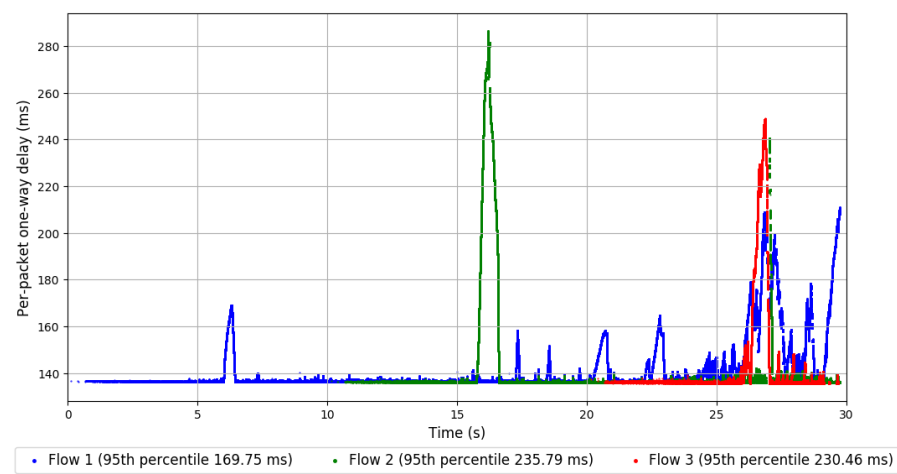
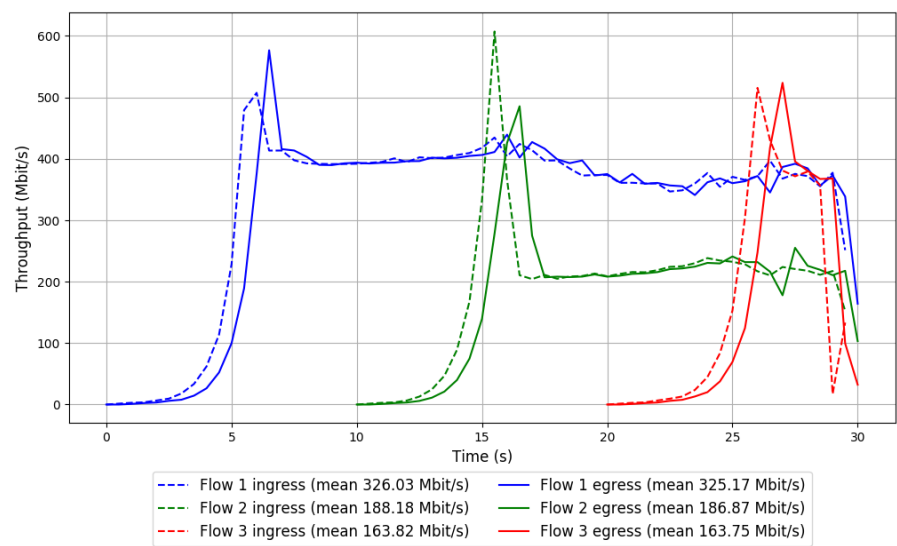
-- Flow 3:

Average throughput: 163.75 Mbit/s

95th percentile per-packet one-way delay: 230.457 ms

Loss rate: 3.50%

Run 1: Report of PCC-Vivace — Data Link

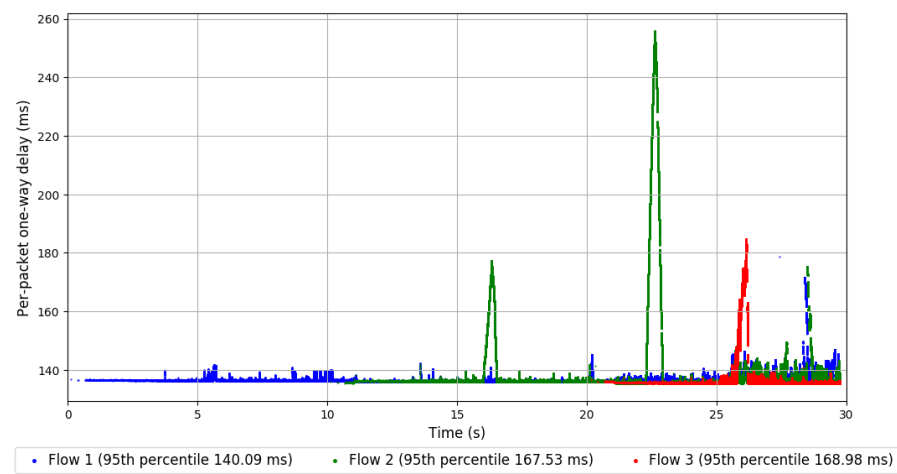
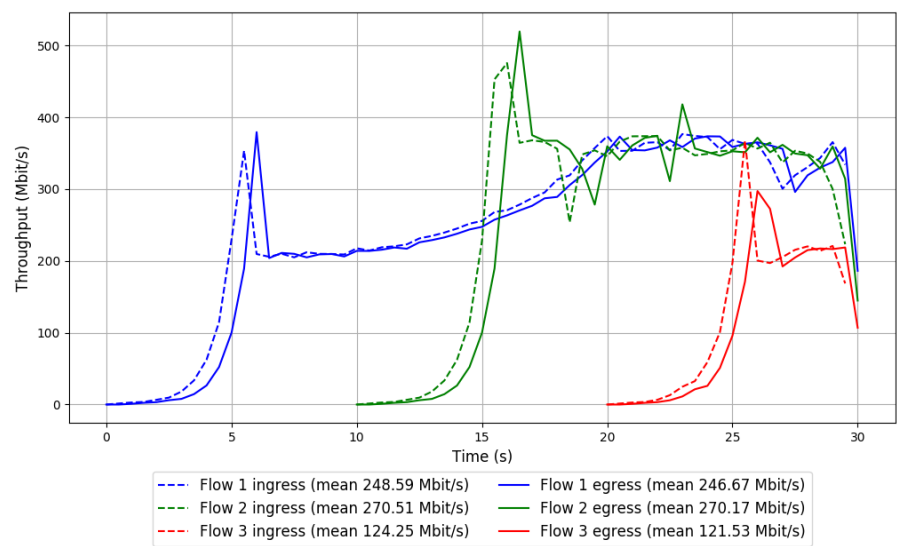


Run 2: Statistics of PCC-Vivace

Start at: 2018-07-11 15:24:32  
End at: 2018-07-11 15:25:02  
Local clock offset: 0.037 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-07-11 21:30:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 464.82 Mbit/s  
95th percentile per-packet one-way delay: 146.229 ms  
Loss rate: 1.90%  
-- Flow 1:  
Average throughput: 246.67 Mbit/s  
95th percentile per-packet one-way delay: 140.085 ms  
Loss rate: 1.70%  
-- Flow 2:  
Average throughput: 270.17 Mbit/s  
95th percentile per-packet one-way delay: 167.535 ms  
Loss rate: 1.49%  
-- Flow 3:  
Average throughput: 121.53 Mbit/s  
95th percentile per-packet one-way delay: 168.983 ms  
Loss rate: 4.94%

Run 2: Report of PCC-Vivace — Data Link



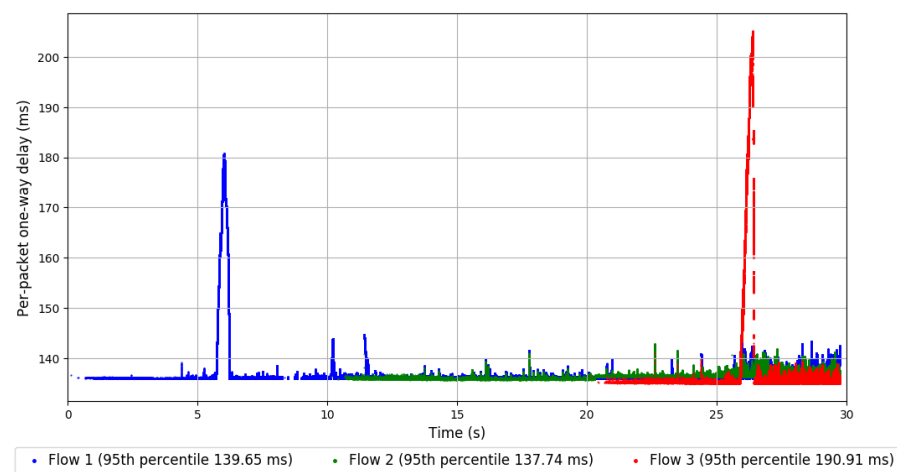
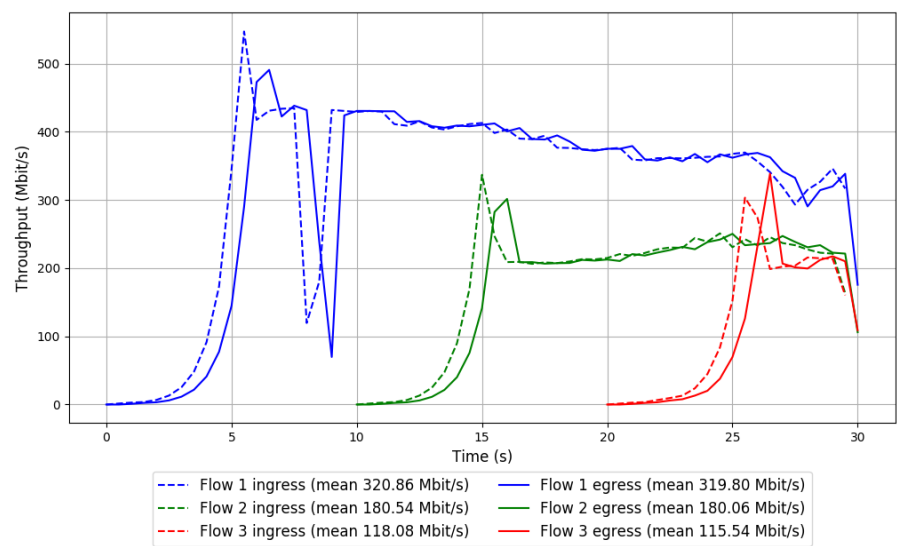
Run 3: Statistics of PCC-Vivace

Start at: 2018-07-11 15:51:23  
End at: 2018-07-11 15:51:53  
Local clock offset: 0.03 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-07-11 21:30:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 476.37 Mbit/s  
95th percentile per-packet one-way delay: 139.513 ms  
Loss rate: 1.64%  
-- Flow 1:  
Average throughput: 319.80 Mbit/s  
95th percentile per-packet one-way delay: 139.651 ms  
Loss rate: 1.24%  
-- Flow 2:  
Average throughput: 180.06 Mbit/s  
95th percentile per-packet one-way delay: 137.741 ms  
Loss rate: 1.65%  
-- Flow 3:  
Average throughput: 115.54 Mbit/s  
95th percentile per-packet one-way delay: 190.907 ms  
Loss rate: 4.88%



Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-11 16:17:43

End at: 2018-07-11 16:18:13

Local clock offset: -0.29 ms

Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2018-07-11 21:32:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 525.47 Mbit/s

95th percentile per-packet one-way delay: 143.598 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 306.20 Mbit/s

95th percentile per-packet one-way delay: 143.893 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 267.34 Mbit/s

95th percentile per-packet one-way delay: 164.454 ms

Loss rate: 1.54%

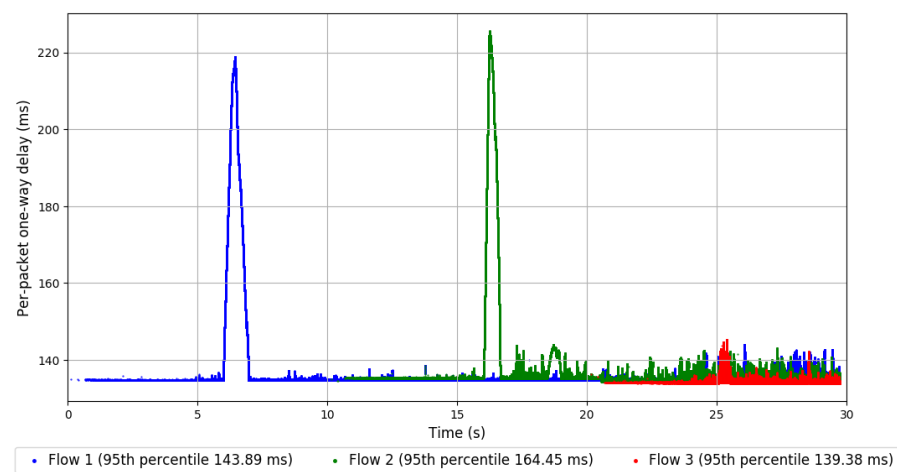
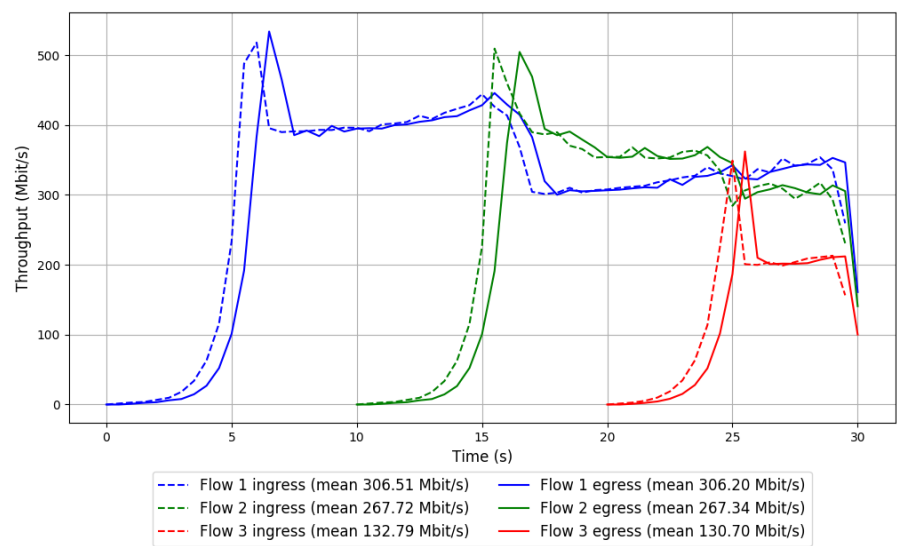
-- Flow 3:

Average throughput: 130.70 Mbit/s

95th percentile per-packet one-way delay: 139.385 ms

Loss rate: 4.31%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-11 16:45:06

End at: 2018-07-11 16:45:36

Local clock offset: -0.041 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-07-11 21:32:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 471.78 Mbit/s

95th percentile per-packet one-way delay: 224.570 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 306.95 Mbit/s

95th percentile per-packet one-way delay: 245.075 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 190.60 Mbit/s

95th percentile per-packet one-way delay: 186.775 ms

Loss rate: 1.89%

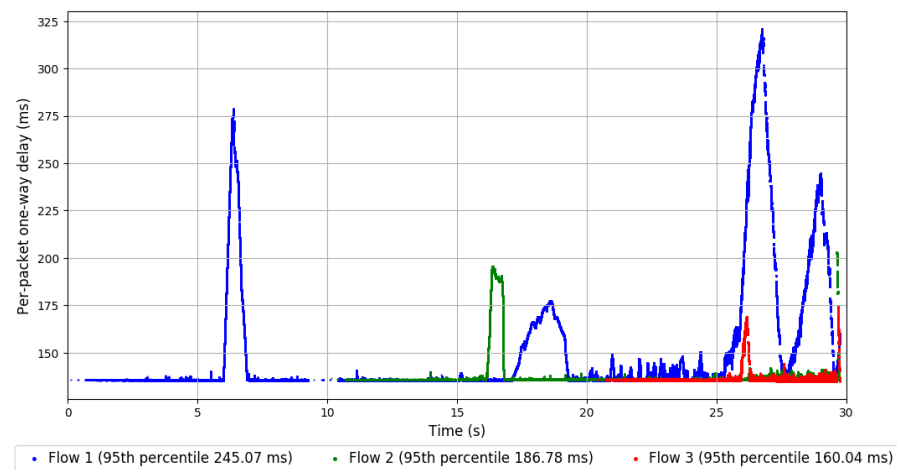
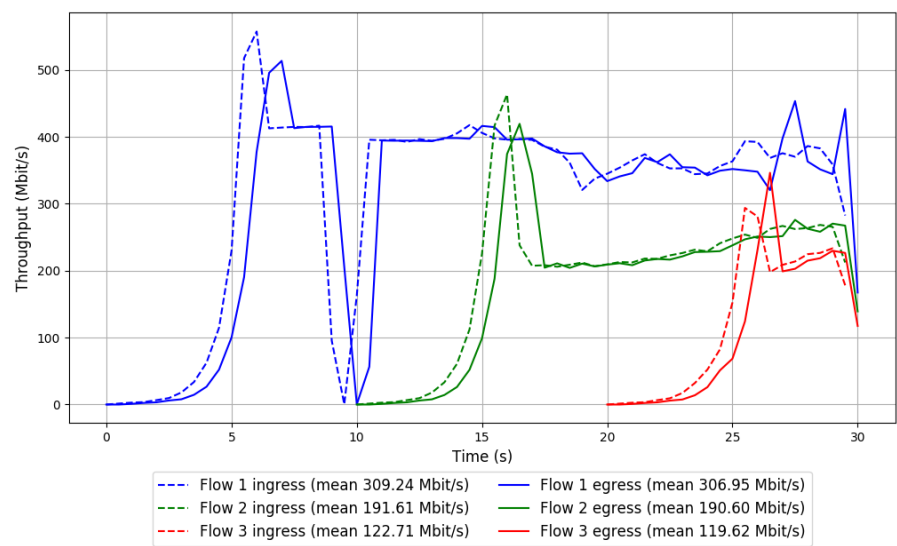
-- Flow 3:

Average throughput: 119.62 Mbit/s

95th percentile per-packet one-way delay: 160.040 ms

Loss rate: 5.27%

Run 5: Report of PCC-Vivace — Data Link

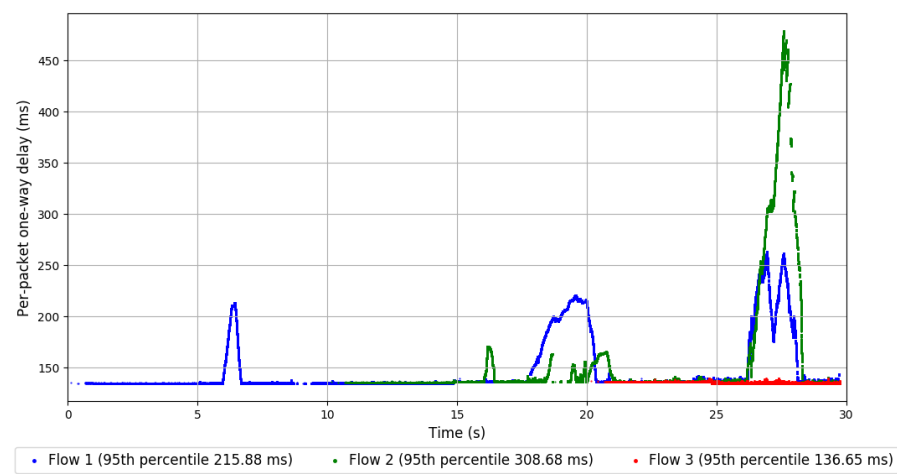
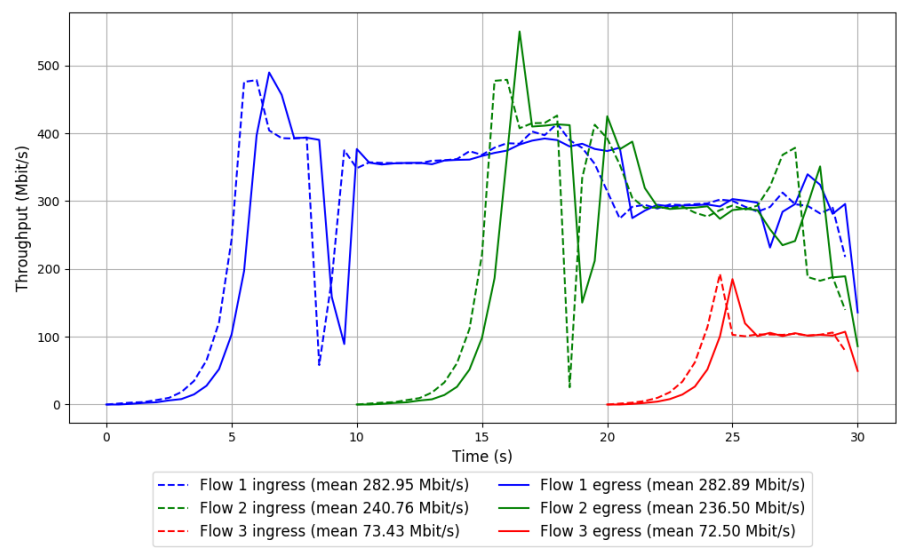


Run 6: Statistics of PCC-Vivace

Start at: 2018-07-11 17:11:49  
End at: 2018-07-11 17:12:19  
Local clock offset: -0.272 ms  
Remote clock offset: -0.463 ms

# Below is generated by plot.py at 2018-07-11 21:32:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 462.82 Mbit/s  
95th percentile per-packet one-way delay: 230.691 ms  
Loss rate: 1.84%  
-- Flow 1:  
Average throughput: 282.89 Mbit/s  
95th percentile per-packet one-way delay: 215.882 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 236.50 Mbit/s  
95th percentile per-packet one-way delay: 308.680 ms  
Loss rate: 3.12%  
-- Flow 3:  
Average throughput: 72.50 Mbit/s  
95th percentile per-packet one-way delay: 136.650 ms  
Loss rate: 4.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-11 17:38:30

End at: 2018-07-11 17:39:00

Local clock offset: 0.057 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2018-07-11 21:32:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 451.73 Mbit/s

95th percentile per-packet one-way delay: 317.025 ms

Loss rate: 4.16%

-- Flow 1:

Average throughput: 239.48 Mbit/s

95th percentile per-packet one-way delay: 170.898 ms

Loss rate: 1.99%

-- Flow 2:

Average throughput: 255.83 Mbit/s

95th percentile per-packet one-way delay: 323.783 ms

Loss rate: 7.14%

-- Flow 3:

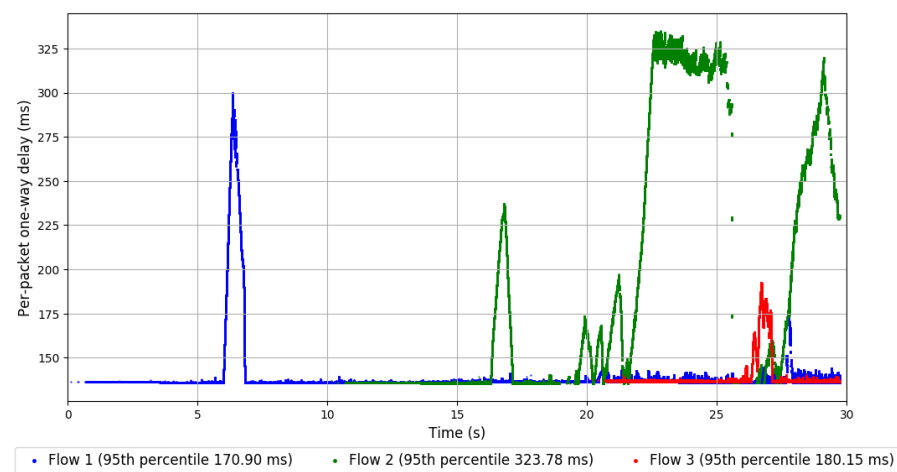
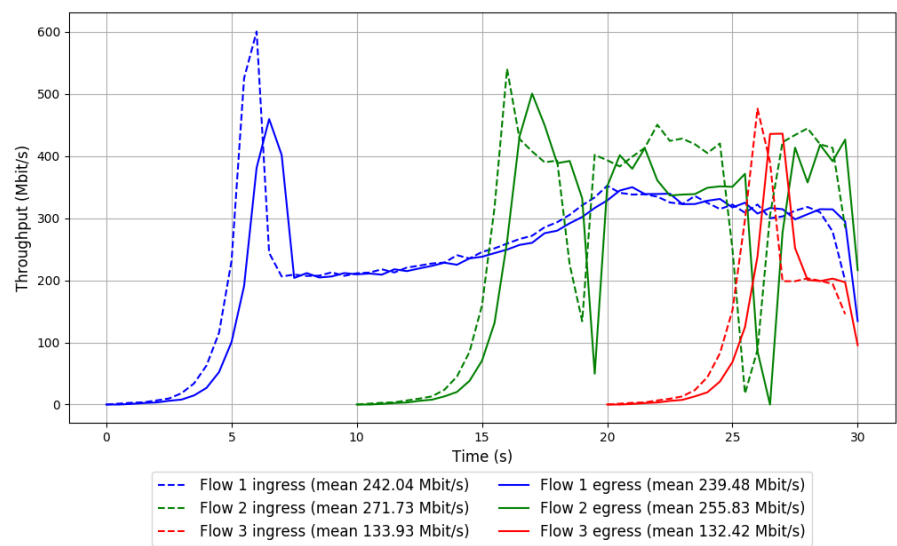
Average throughput: 132.42 Mbit/s

95th percentile per-packet one-way delay: 180.146 ms

Loss rate: 3.88%



Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-11 18:05:23

End at: 2018-07-11 18:05:53

Local clock offset: -0.039 ms

Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2018-07-11 21:32:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 427.31 Mbit/s

95th percentile per-packet one-way delay: 139.552 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 228.28 Mbit/s

95th percentile per-packet one-way delay: 138.541 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 270.39 Mbit/s

95th percentile per-packet one-way delay: 140.505 ms

Loss rate: 1.59%

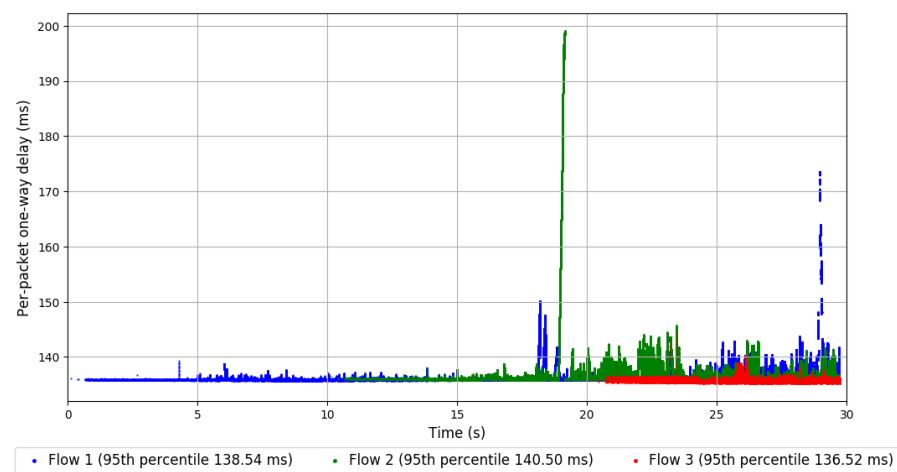
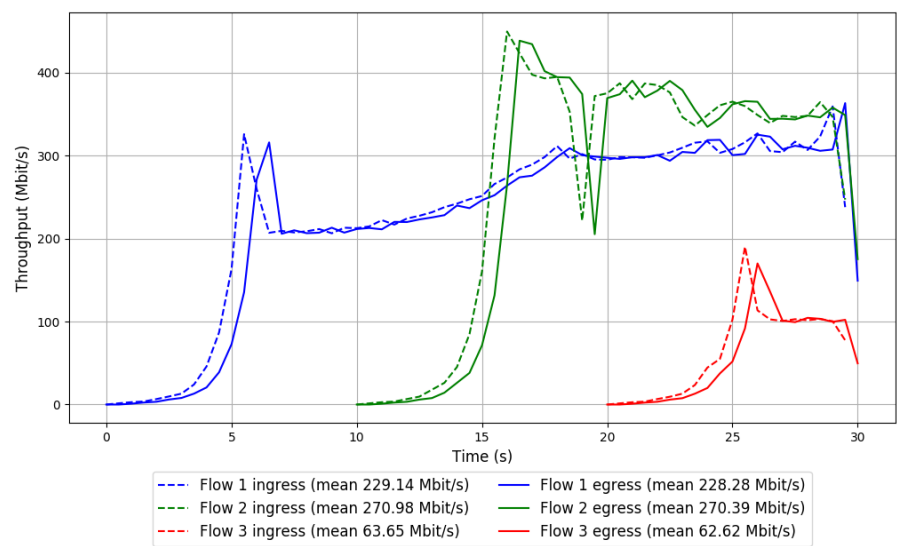
-- Flow 3:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 136.517 ms

Loss rate: 4.34%

Run 8: Report of PCC-Vivace — Data Link

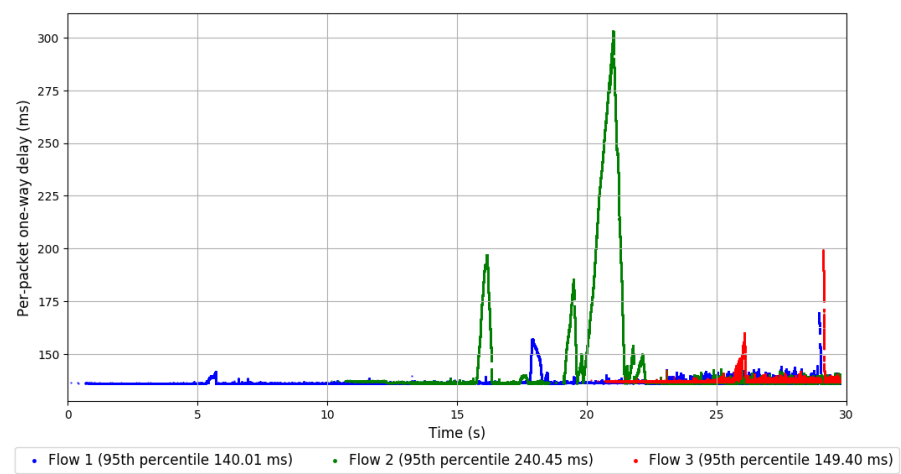
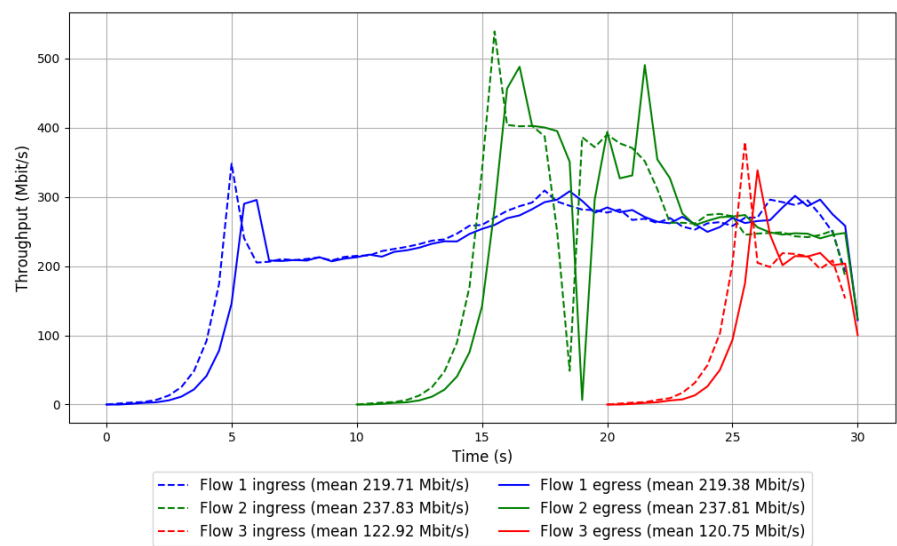


Run 9: Statistics of PCC-Vivace

Start at: 2018-07-11 18:32:11  
End at: 2018-07-11 18:32:41  
Local clock offset: 0.056 ms  
Remote clock offset: -0.475 ms

# Below is generated by plot.py at 2018-07-11 21:33:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 415.89 Mbit/s  
95th percentile per-packet one-way delay: 176.026 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 219.38 Mbit/s  
95th percentile per-packet one-way delay: 140.007 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 237.81 Mbit/s  
95th percentile per-packet one-way delay: 240.447 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 120.75 Mbit/s  
95th percentile per-packet one-way delay: 149.397 ms  
Loss rate: 4.52%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-11 18:58:48

End at: 2018-07-11 18:59:18

Local clock offset: -0.008 ms

Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2018-07-11 21:33:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 532.36 Mbit/s

95th percentile per-packet one-way delay: 158.762 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 305.11 Mbit/s

95th percentile per-packet one-way delay: 148.734 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 285.64 Mbit/s

95th percentile per-packet one-way delay: 180.205 ms

Loss rate: 1.66%

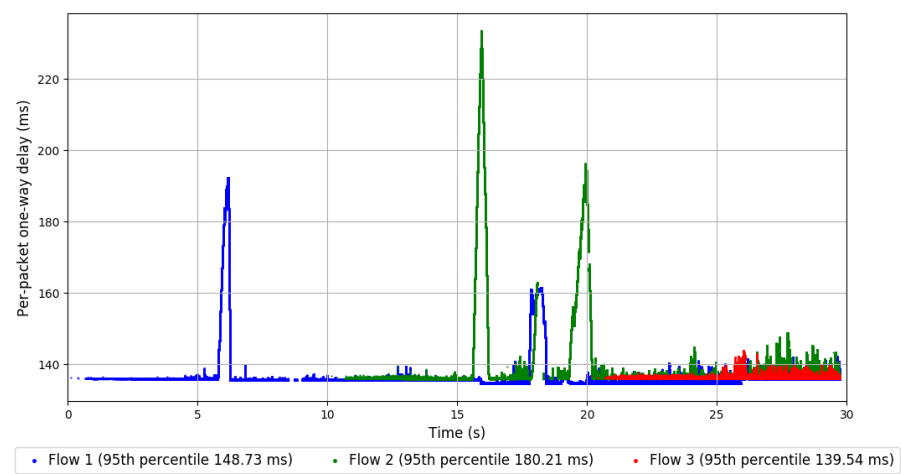
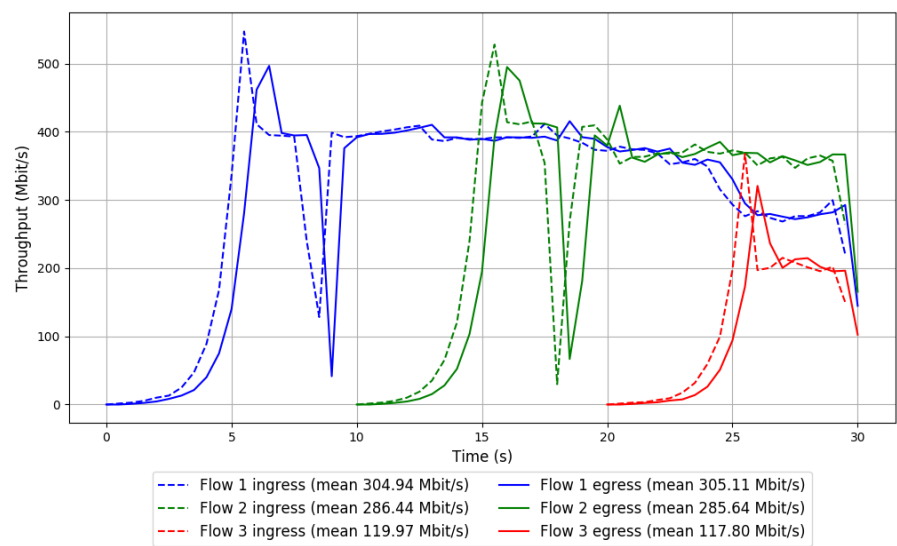
-- Flow 3:

Average throughput: 117.80 Mbit/s

95th percentile per-packet one-way delay: 139.539 ms

Loss rate: 4.54%

Run 10: Report of PCC-Vivace — Data Link



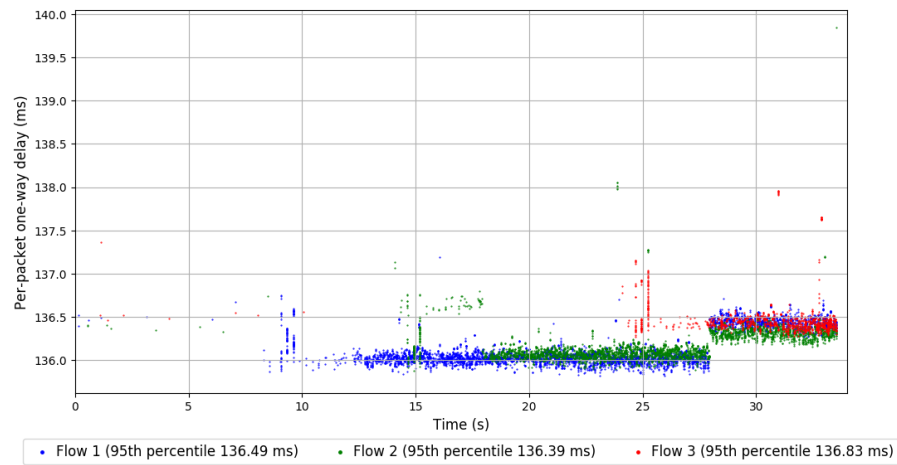
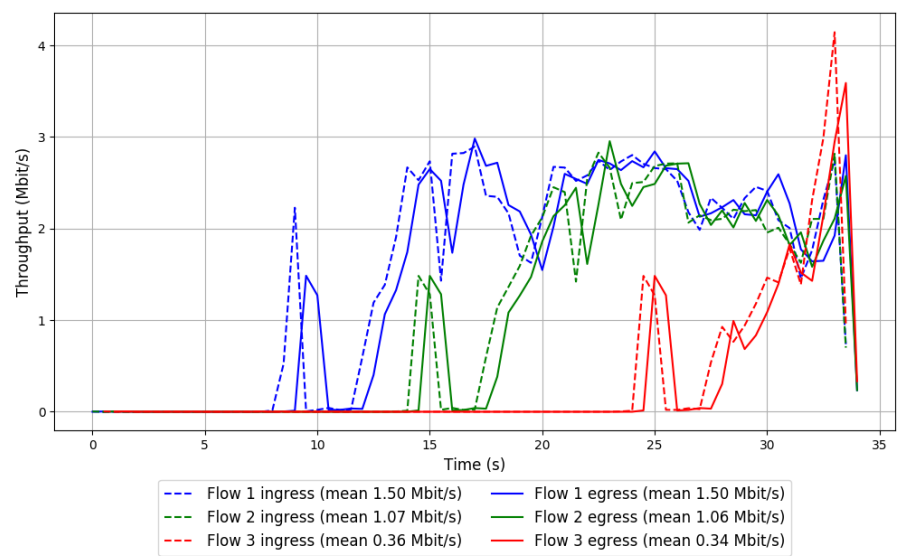
Run 1: Statistics of WebRTC media

Start at: 2018-07-11 14:39:59  
End at: 2018-07-11 14:40:29  
Local clock offset: 0.017 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-07-11 21:33:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.87 Mbit/s  
95th percentile per-packet one-way delay: 136.500 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 136.494 ms  
Loss rate: 1.36%  
-- Flow 2:  
Average throughput: 1.06 Mbit/s  
95th percentile per-packet one-way delay: 136.390 ms  
Loss rate: 1.97%  
-- Flow 3:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 136.828 ms  
Loss rate: 7.24%



Run 1: Report of WebRTC media — Data Link

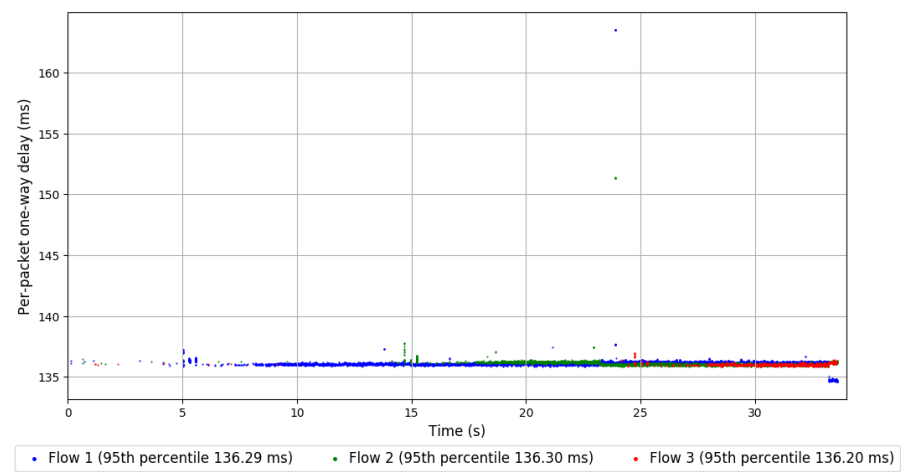
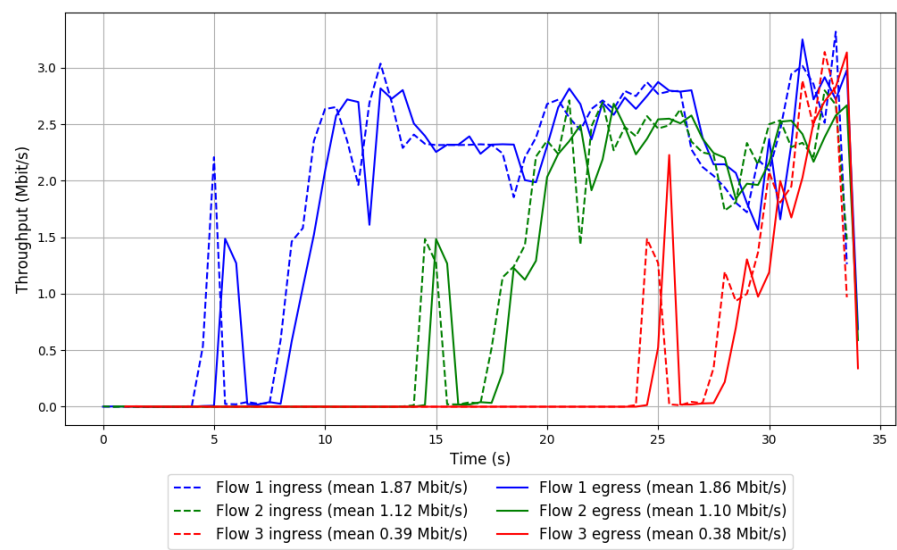


Run 2: Statistics of WebRTC media

Start at: 2018-07-11 15:07:04  
End at: 2018-07-11 15:07:34  
Local clock offset: -0.022 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-07-11 21:33:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.31 Mbit/s  
95th percentile per-packet one-way delay: 136.291 ms  
Loss rate: 2.03%  
-- Flow 1:  
Average throughput: 1.86 Mbit/s  
95th percentile per-packet one-way delay: 136.293 ms  
Loss rate: 1.24%  
-- Flow 2:  
Average throughput: 1.10 Mbit/s  
95th percentile per-packet one-way delay: 136.298 ms  
Loss rate: 2.32%  
-- Flow 3:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 136.201 ms  
Loss rate: 5.10%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-11 15:33:48

End at: 2018-07-11 15:34:18

Local clock offset: -0.098 ms

Remote clock offset: 0.363 ms

# Below is generated by plot.py at 2018-07-11 21:33:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.31 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 135.651 ms

Loss rate: 1.97%

-- Flow 2:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 136.192 ms

Loss rate: 1.65%

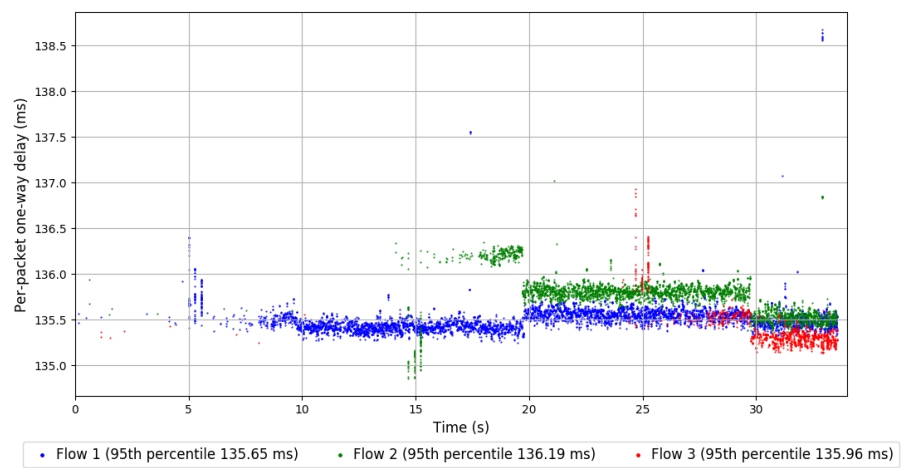
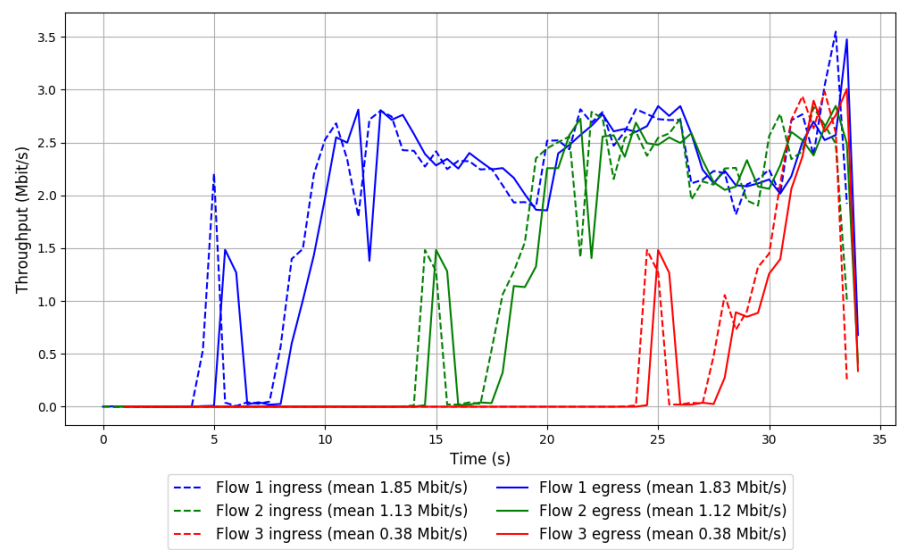
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.956 ms

Loss rate: 2.34%

Run 3: Report of WebRTC media — Data Link

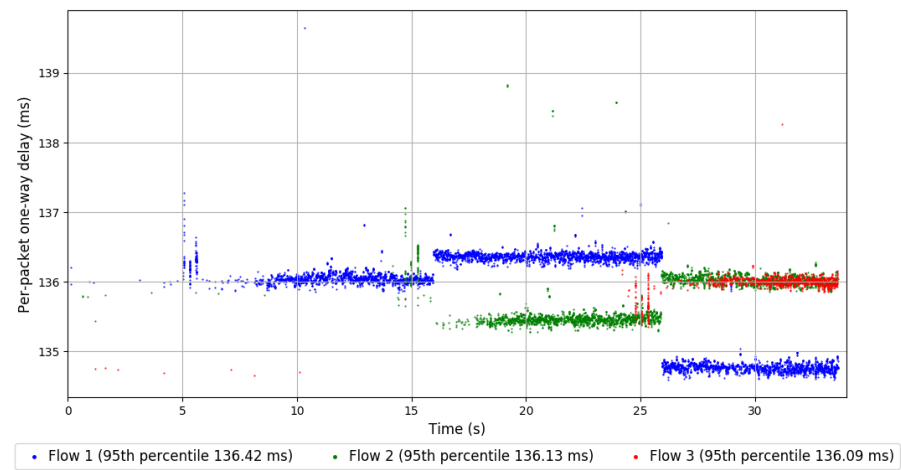
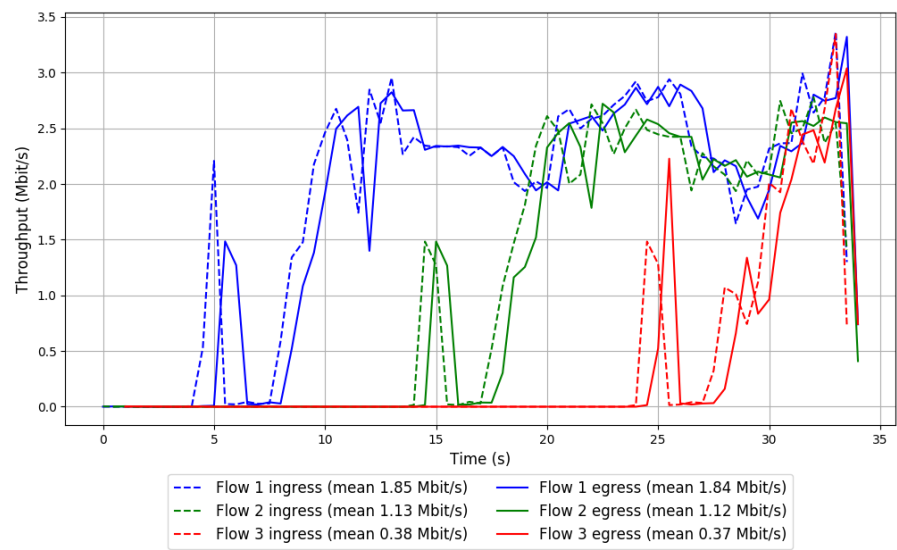


Run 4: Statistics of WebRTC media

Start at: 2018-07-11 16:00:31  
End at: 2018-07-11 16:01:01  
Local clock offset: -0.069 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-07-11 21:33:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.30 Mbit/s  
95th percentile per-packet one-way delay: 136.405 ms  
Loss rate: 1.74%  
-- Flow 1:  
Average throughput: 1.84 Mbit/s  
95th percentile per-packet one-way delay: 136.420 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 1.12 Mbit/s  
95th percentile per-packet one-way delay: 136.130 ms  
Loss rate: 2.11%  
-- Flow 3:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 136.095 ms  
Loss rate: 3.58%

Run 4: Report of WebRTC media — Data Link



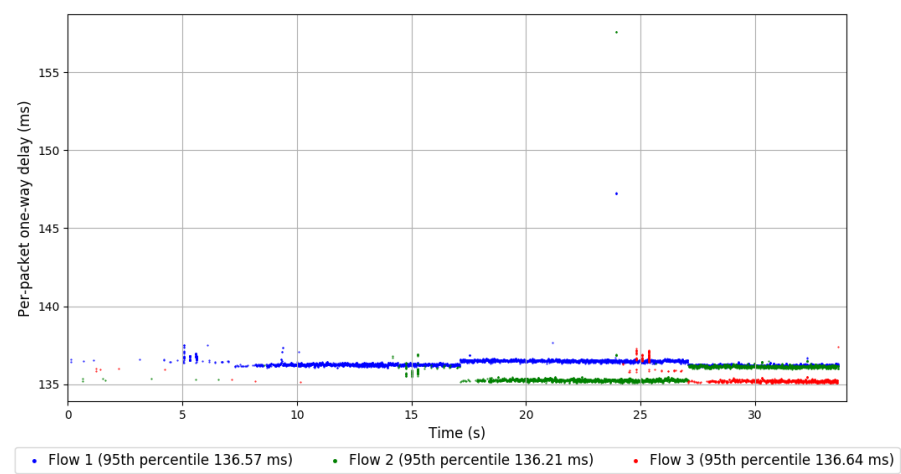
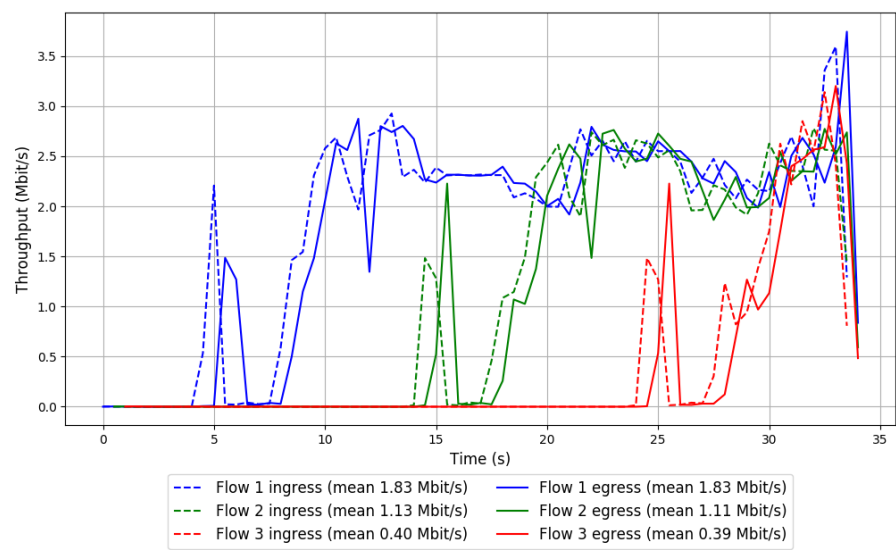
Run 5: Statistics of WebRTC media

Start at: 2018-07-11 16:27:00  
End at: 2018-07-11 16:27:30  
Local clock offset: 0.076 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-07-11 21:33:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.30 Mbit/s  
95th percentile per-packet one-way delay: 136.549 ms  
Loss rate: 1.71%  
-- Flow 1:  
Average throughput: 1.83 Mbit/s  
95th percentile per-packet one-way delay: 136.567 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 1.11 Mbit/s  
95th percentile per-packet one-way delay: 136.207 ms  
Loss rate: 1.92%  
-- Flow 3:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 136.642 ms  
Loss rate: 3.76%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-11 16:54:19

End at: 2018-07-11 16:54:49

Local clock offset: -0.034 ms

Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2018-07-11 21:33:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.33 Mbit/s

95th percentile per-packet one-way delay: 135.758 ms

Loss rate: 1.98%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 135.781 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 135.498 ms

Loss rate: 2.42%

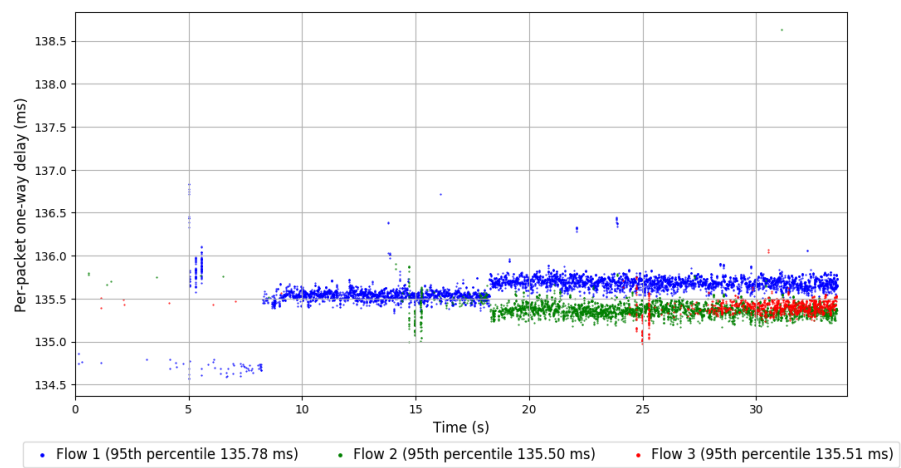
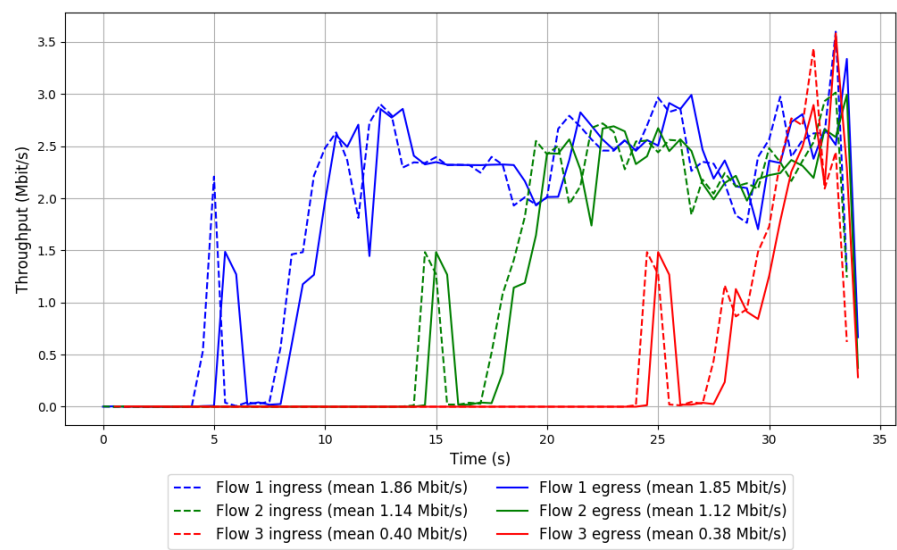
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.509 ms

Loss rate: 3.74%

Run 6: Report of WebRTC media — Data Link

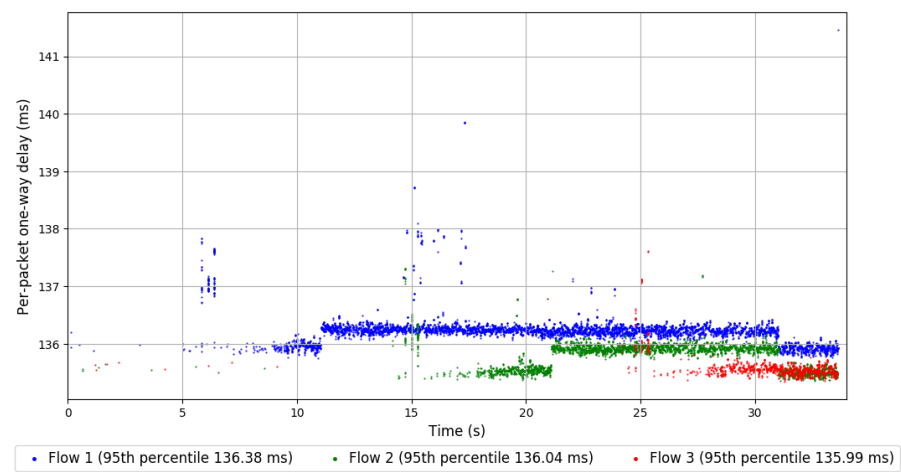
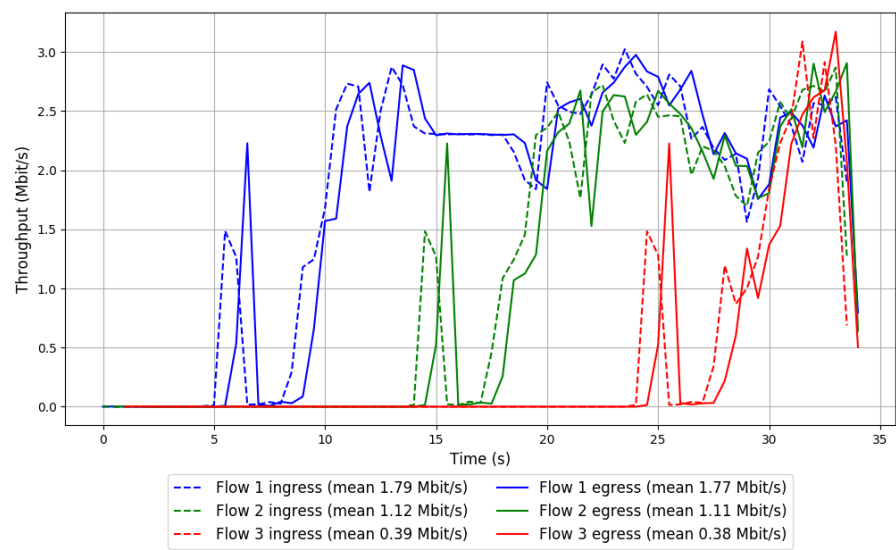


Run 7: Statistics of WebRTC media

Start at: 2018-07-11 17:20:56  
End at: 2018-07-11 17:21:26  
Local clock offset: 0.029 ms  
Remote clock offset: -0.435 ms

# Below is generated by plot.py at 2018-07-11 21:33:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.23 Mbit/s  
95th percentile per-packet one-way delay: 136.343 ms  
Loss rate: 1.88%  
-- Flow 1:  
Average throughput: 1.77 Mbit/s  
95th percentile per-packet one-way delay: 136.381 ms  
Loss rate: 1.68%  
-- Flow 2:  
Average throughput: 1.11 Mbit/s  
95th percentile per-packet one-way delay: 136.036 ms  
Loss rate: 1.92%  
-- Flow 3:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 135.987 ms  
Loss rate: 2.72%

Run 7: Report of WebRTC media — Data Link

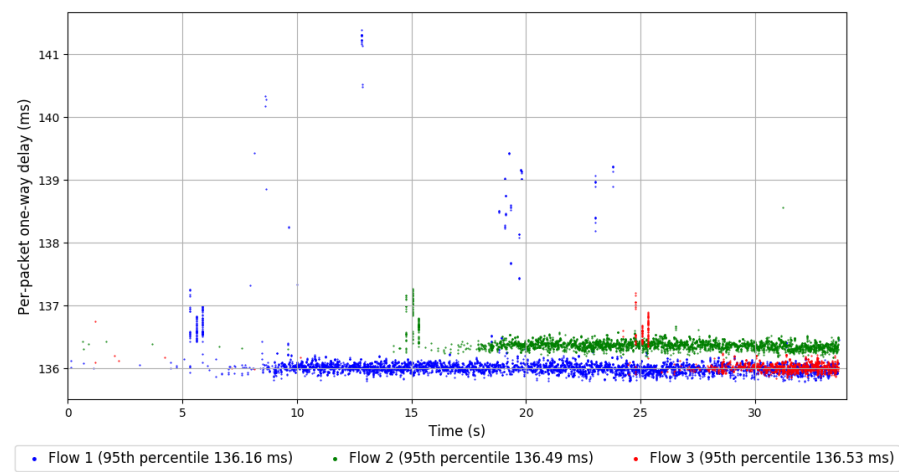
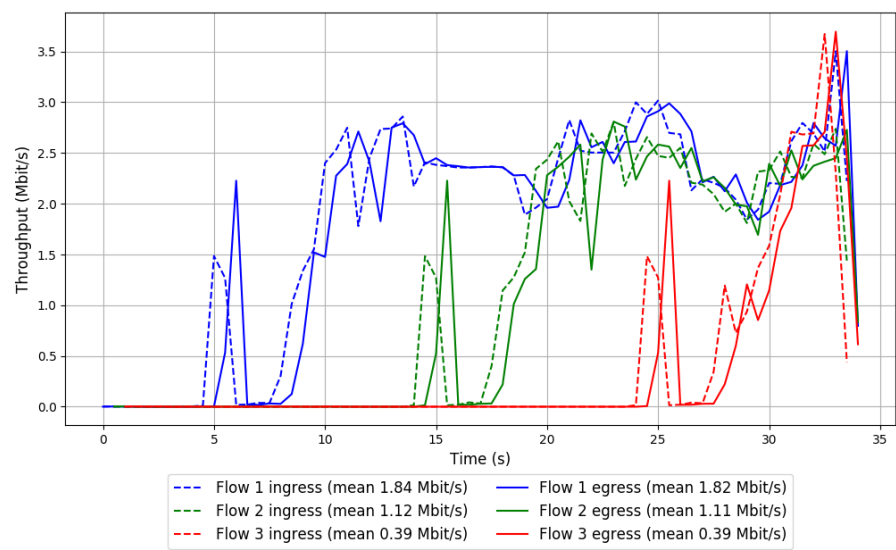


Run 8: Statistics of WebRTC media

Start at: 2018-07-11 17:47:42  
End at: 2018-07-11 17:48:12  
Local clock offset: -0.022 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-07-11 21:33:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.29 Mbit/s  
95th percentile per-packet one-way delay: 136.470 ms  
Loss rate: 1.82%  
-- Flow 1:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 136.156 ms  
Loss rate: 1.77%  
-- Flow 2:  
Average throughput: 1.11 Mbit/s  
95th percentile per-packet one-way delay: 136.492 ms  
Loss rate: 1.93%  
-- Flow 3:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 136.535 ms  
Loss rate: 1.70%

Run 8: Report of WebRTC media — Data Link



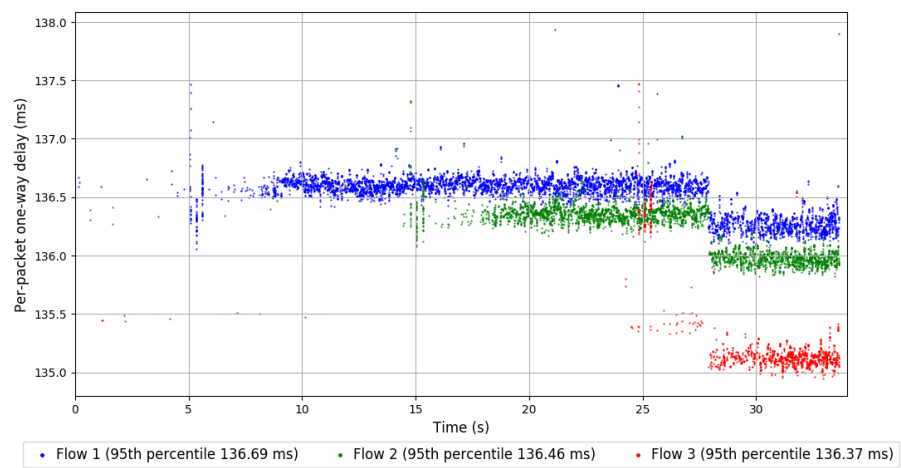
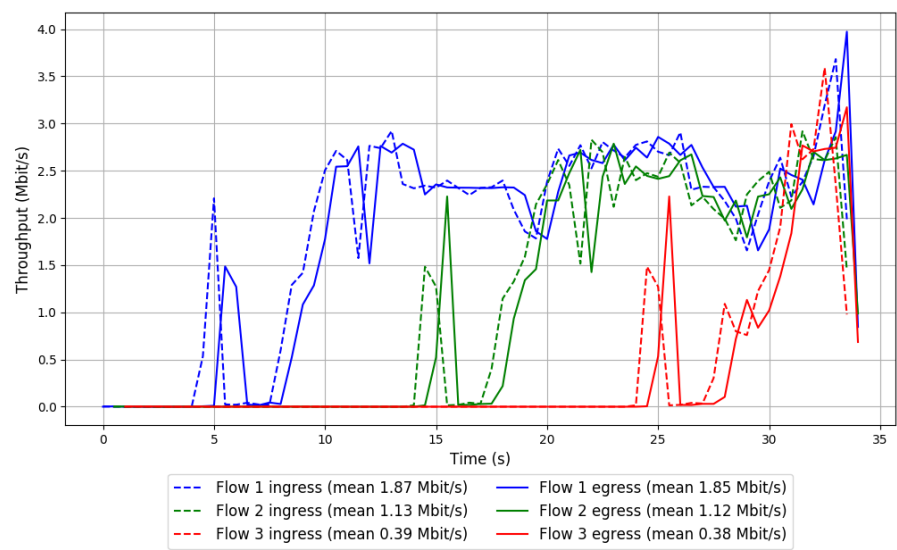
Run 9: Statistics of WebRTC media

Start at: 2018-07-11 18:14:30  
End at: 2018-07-11 18:15:00  
Local clock offset: -0.041 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-07-11 21:33:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.32 Mbit/s  
95th percentile per-packet one-way delay: 136.671 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 1.85 Mbit/s  
95th percentile per-packet one-way delay: 136.694 ms  
Loss rate: 1.56%  
-- Flow 2:  
Average throughput: 1.12 Mbit/s  
95th percentile per-packet one-way delay: 136.464 ms  
Loss rate: 1.92%  
-- Flow 3:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 136.372 ms  
Loss rate: 3.80%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-11 18:41:18  
End at: 2018-07-11 18:41:48  
Local clock offset: -0.202 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-07-11 21:33:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.26 Mbit/s  
95th percentile per-packet one-way delay: 136.515 ms  
Loss rate: 2.33%  
-- Flow 1:  
Average throughput: 1.83 Mbit/s  
95th percentile per-packet one-way delay: 136.446 ms  
Loss rate: 1.96%  
-- Flow 2:  
Average throughput: 1.09 Mbit/s  
95th percentile per-packet one-way delay: 136.565 ms  
Loss rate: 2.02%  
-- Flow 3:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 136.331 ms  
Loss rate: 5.03%

Run 10: Report of WebRTC media — Data Link

