

## Pantheon Report

Generated at 2018-05-24 12:12:24 (UTC).

Data path: AWS India 1 Ethernet (*local*) → India ppp0 ppp0 (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

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

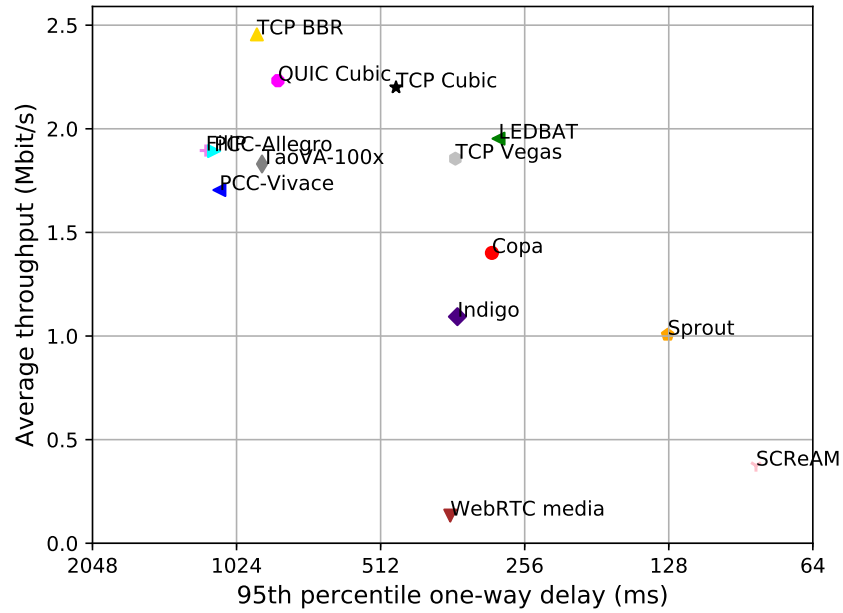
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

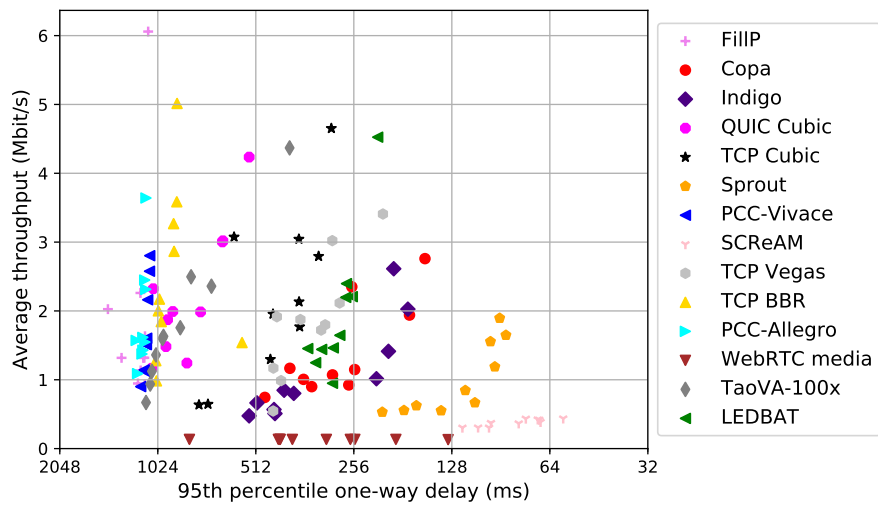
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS India 1 to India ppp0, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS India 1 to India ppp0, 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     | 1.63                   | 0.74   | 1.08   | 861.77                    | 929.75  | 943.52  | 3.66               | 5.70   | 11.60  |
| Copa         | 10     | 0.80                   | 0.64   | 0.52   | 255.56                    | 315.65  | 402.02  | 0.34               | 0.62   | 1.21   |
| TCP Cubic    | 10     | 1.23                   | 1.08   | 0.80   | 451.06                    | 478.48  | 570.15  | 1.40               | 2.08   | 5.25   |
| FillP        | 10     | 1.38                   | 0.61   | 0.45   | 1135.93                   | 1192.86 | 1230.19 | 68.21              | 53.61  | 66.53  |
| Indigo       | 10     | 0.57                   | 0.47   | 0.67   | 347.37                    | 407.98  | 432.57  | 1.00               | 1.10   | 2.92   |
| LEDBAT       | 10     | 1.22                   | 0.86   | 0.52   | 287.72                    | 300.55  | 327.58  | 0.62               | 1.00   | 2.28   |
| PCC-Allegro  | 9      | 1.12                   | 0.85   | 0.73   | 1120.75                   | 1149.71 | 1163.65 | 46.87              | 80.88  | 88.84  |
| PCC-Expr     | 0      | N/A                    | N/A    | N/A    | N/A                       | N/A     | N/A     | N/A                | N/A    | N/A    |
| QUIC Cubic   | 10     | 1.27                   | 1.12   | 0.72   | 760.62                    | 843.14  | 895.46  | 2.28               | 3.63   | 12.79  |
| SCReAM       | 10     | 0.17                   | 0.20   | 0.21   | 83.40                     | 84.33   | 84.45   | 0.07               | 0.17   | 0.38   |
| Sprout       | 10     | 0.51                   | 0.49   | 0.52   | 122.13                    | 128.43  | 155.45  | 0.34               | 0.39   | 0.54   |
| TaoVA-100x   | 10     | 1.11                   | 0.81   | 0.60   | 832.71                    | 911.59  | 1005.82 | 6.53               | 13.95  | 32.73  |
| TCP Vegas    | 10     | 1.03                   | 0.76   | 0.97   | 350.56                    | 372.18  | 313.94  | 0.50               | 0.98   | 1.68   |
| Verus        | 0      | N/A                    | N/A    | N/A    | N/A                       | N/A     | N/A     | N/A                | N/A    | N/A    |
| PCC-Vivace   | 9      | 1.04                   | 0.84   | 0.39   | 1107.89                   | 1113.55 | 1111.41 | 31.81              | 43.22  | 56.29  |
| WebRTC media | 10     | 0.05                   | 0.04   | 0.05   | 368.82                    | 300.58  | 271.96  | 1.32               | 0.56   | 0.41   |

Run 1: Statistics of TCP BBR

Start at: 2018-05-24 09:23:43

End at: 2018-05-24 09:24:13

Local clock offset: -1.836 ms

Remote clock offset: 8.461 ms

# Below is generated by plot.py at 2018-05-24 12:10:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 1038.343 ms

Loss rate: 8.02%

-- Flow 1:

Average throughput: 0.94 Mbit/s

95th percentile per-packet one-way delay: 1049.174 ms

Loss rate: 8.29%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 983.197 ms

Loss rate: 6.15%

-- Flow 3:

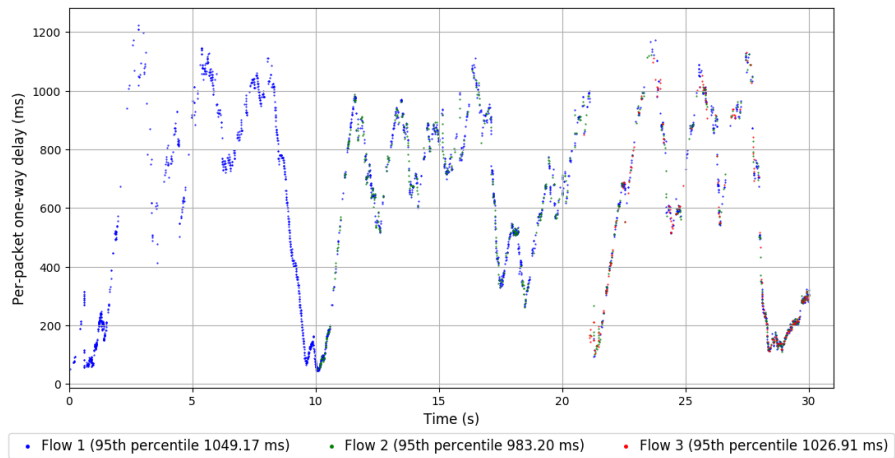
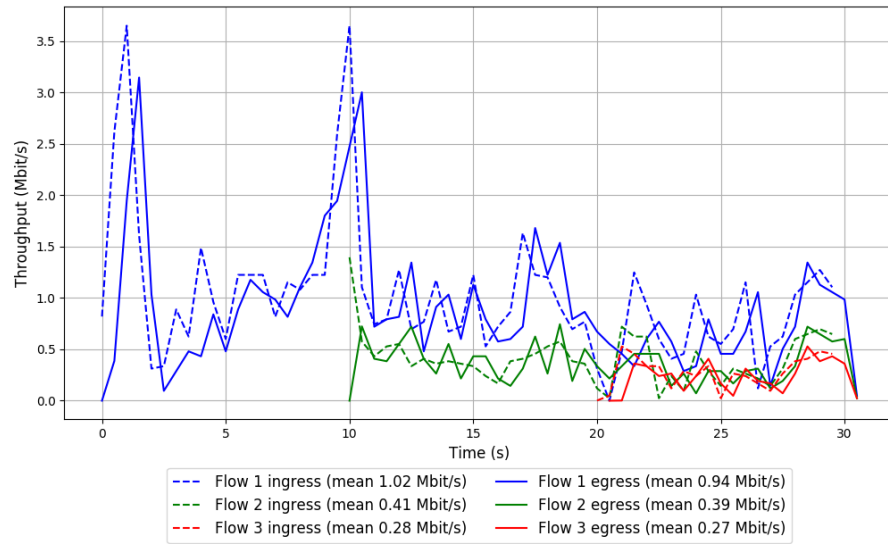
Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 1026.913 ms

Loss rate: 10.52%



# Run 1: Report of TCP BBR — Data Link

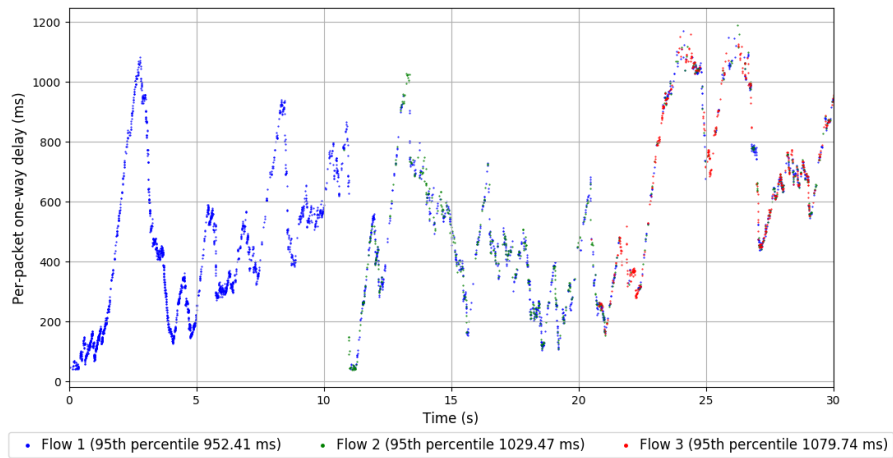
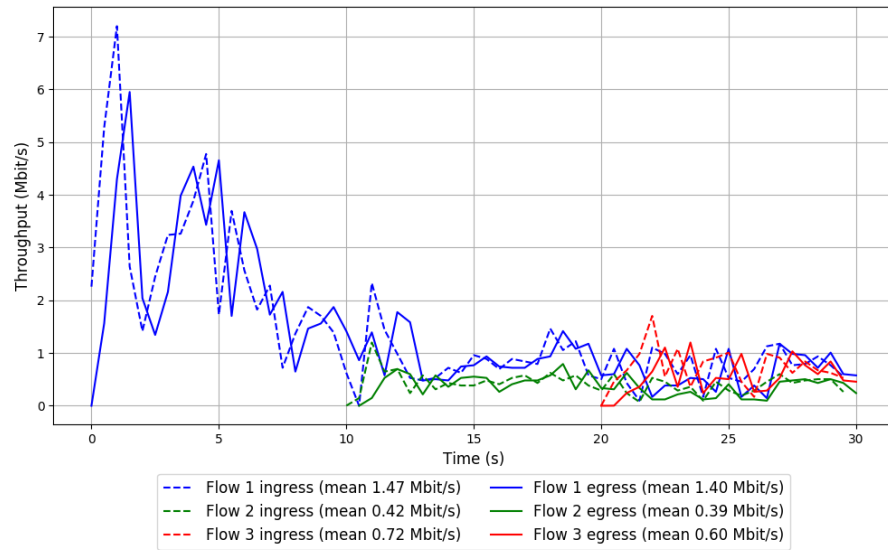


Run 2: Statistics of TCP BBR

Start at: 2018-05-24 09:41:17  
End at: 2018-05-24 09:41:47  
Local clock offset: 2.092 ms  
Remote clock offset: 15.045 ms

# Below is generated by plot.py at 2018-05-24 12:10:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.85 Mbit/s  
95th percentile per-packet one-way delay: 999.450 ms  
Loss rate: 7.34%  
-- Flow 1:  
Average throughput: 1.40 Mbit/s  
95th percentile per-packet one-way delay: 952.408 ms  
Loss rate: 4.55%  
-- Flow 2:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 1029.474 ms  
Loss rate: 10.65%  
-- Flow 3:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 1079.736 ms  
Loss rate: 20.53%

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



Run 3: Statistics of TCP BBR

Start at: 2018-05-24 09:58:55

End at: 2018-05-24 09:59:25

Local clock offset: -2.81 ms

Remote clock offset: 2.155 ms

# Below is generated by plot.py at 2018-05-24 12:10:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1012.315 ms

Loss rate: 6.88%

-- Flow 1:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 936.463 ms

Loss rate: 3.94%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 1038.372 ms

Loss rate: 7.15%

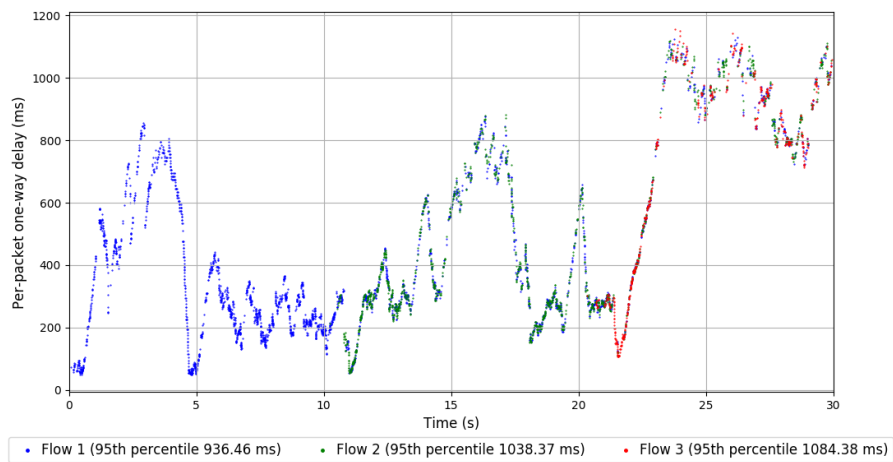
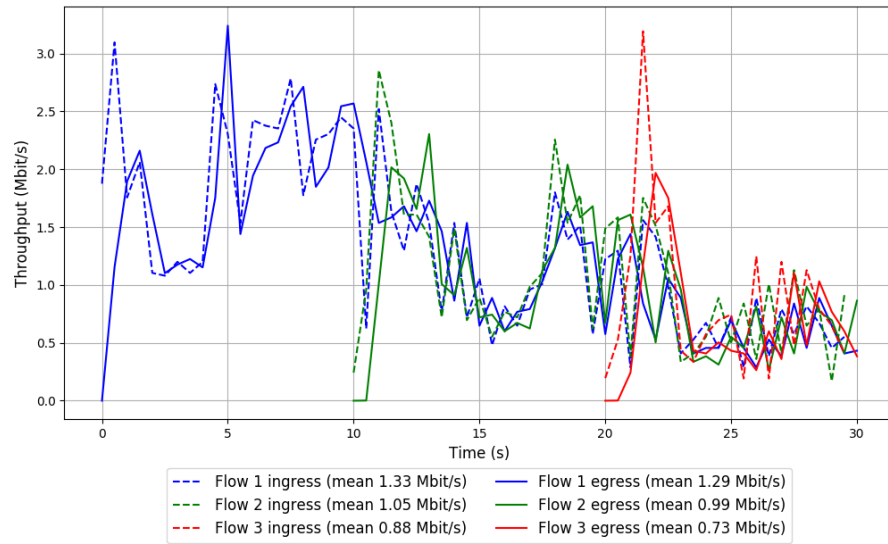
-- Flow 3:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 1084.385 ms

Loss rate: 19.67%

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



Run 4: Statistics of TCP BBR

Start at: 2018-05-24 10:16:43

End at: 2018-05-24 10:17:13

Local clock offset: -2.878 ms

Remote clock offset: 1.382 ms

# Below is generated by plot.py at 2018-05-24 12:10:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 915.726 ms

Loss rate: 2.73%

-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 908.708 ms

Loss rate: 2.18%

-- Flow 2:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 976.405 ms

Loss rate: 4.18%

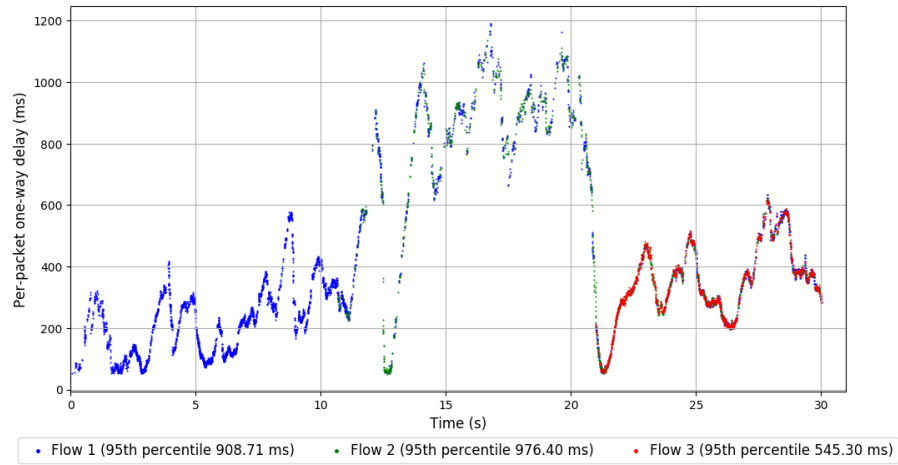
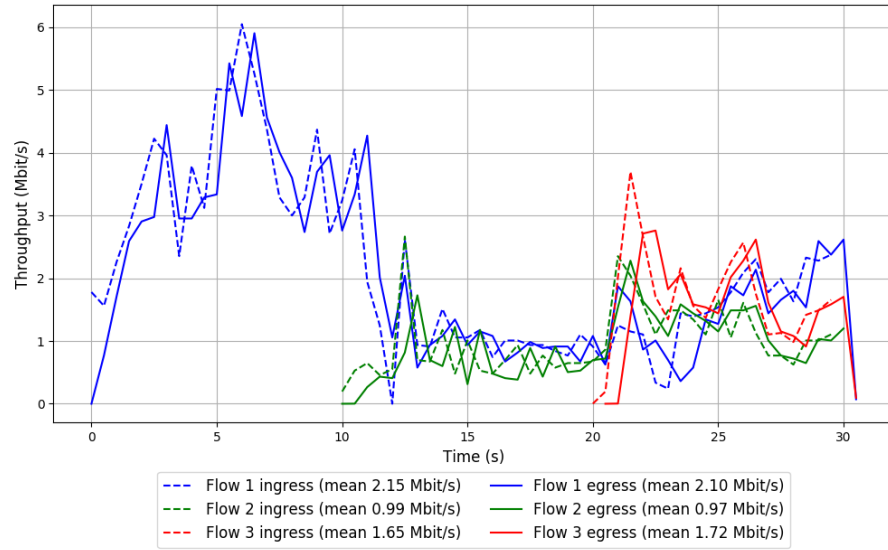
-- Flow 3:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 545.304 ms

Loss rate: 3.14%

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



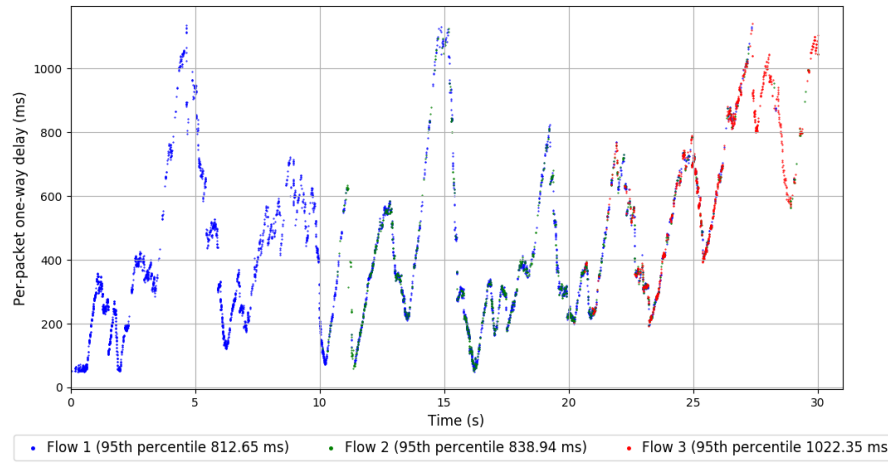
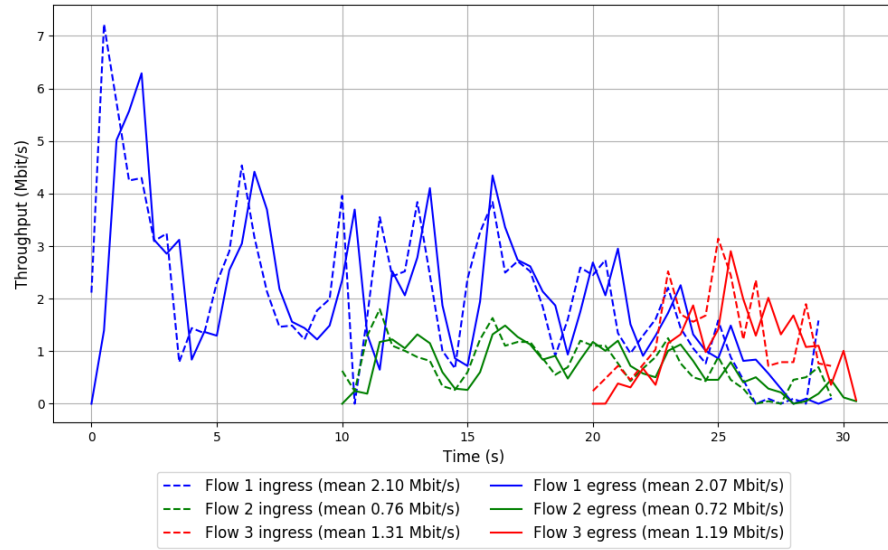
Run 5: Statistics of TCP BBR

Start at: 2018-05-24 10:34:14  
End at: 2018-05-24 10:34:44  
Local clock offset: -2.968 ms  
Remote clock offset: -5.541 ms

# Below is generated by plot.py at 2018-05-24 12:10:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.87 Mbit/s  
95th percentile per-packet one-way delay: 912.667 ms  
Loss rate: 4.24%  
-- Flow 1:  
Average throughput: 2.07 Mbit/s  
95th percentile per-packet one-way delay: 812.648 ms  
Loss rate: 2.78%  
-- Flow 2:  
Average throughput: 0.72 Mbit/s  
95th percentile per-packet one-way delay: 838.940 ms  
Loss rate: 4.96%  
-- Flow 3:  
Average throughput: 1.19 Mbit/s  
95th percentile per-packet one-way delay: 1022.352 ms  
Loss rate: 10.34%



# Run 5: Report of TCP BBR — Data Link

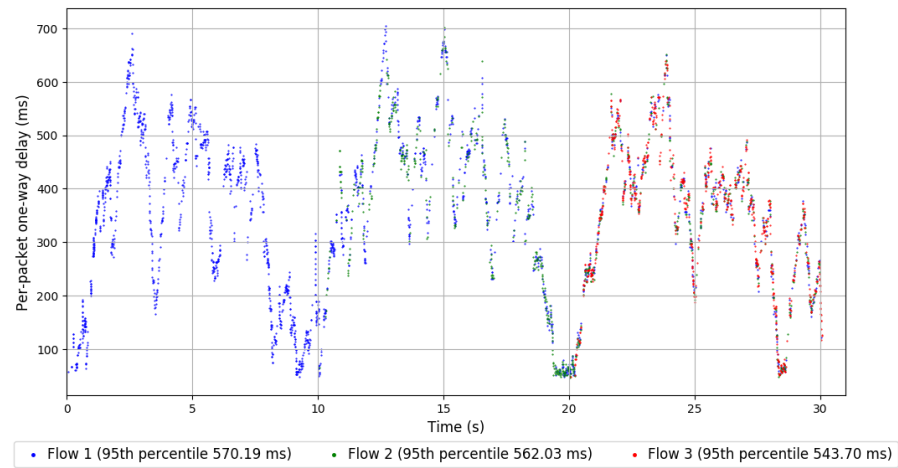
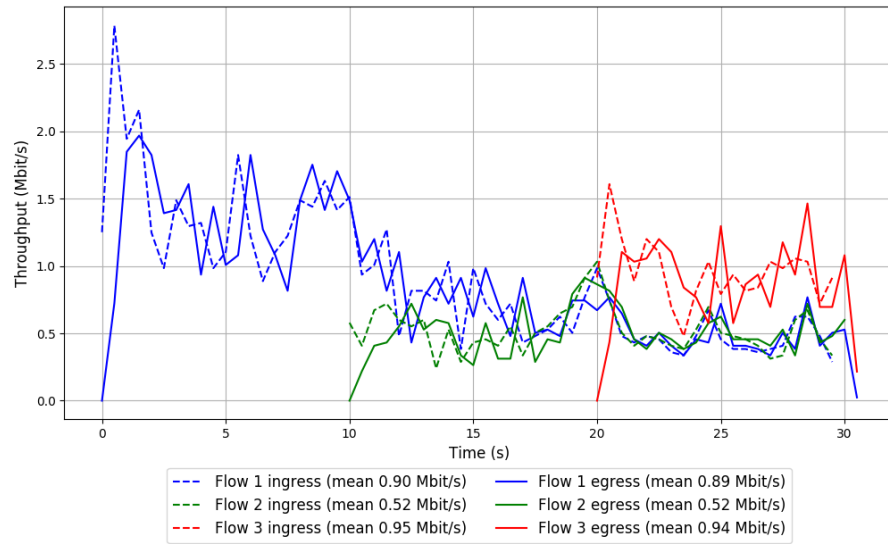


Run 6: Statistics of TCP BBR

Start at: 2018-05-24 10:51:54  
End at: 2018-05-24 10:52:24  
Local clock offset: 0.101 ms  
Remote clock offset: -5.973 ms

# Below is generated by plot.py at 2018-05-24 12:10:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.54 Mbit/s  
95th percentile per-packet one-way delay: 564.299 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 0.89 Mbit/s  
95th percentile per-packet one-way delay: 570.194 ms  
Loss rate: 1.51%  
-- Flow 2:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 562.028 ms  
Loss rate: 1.61%  
-- Flow 3:  
Average throughput: 0.94 Mbit/s  
95th percentile per-packet one-way delay: 543.704 ms  
Loss rate: 1.64%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-24 11:09:24

End at: 2018-05-24 11:09:54

Local clock offset: 0.501 ms

Remote clock offset: 3.542 ms

# Below is generated by plot.py at 2018-05-24 12:10:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 1033.702 ms

Loss rate: 7.53%

-- Flow 1:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 1020.150 ms

Loss rate: 6.05%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1061.287 ms

Loss rate: 8.92%

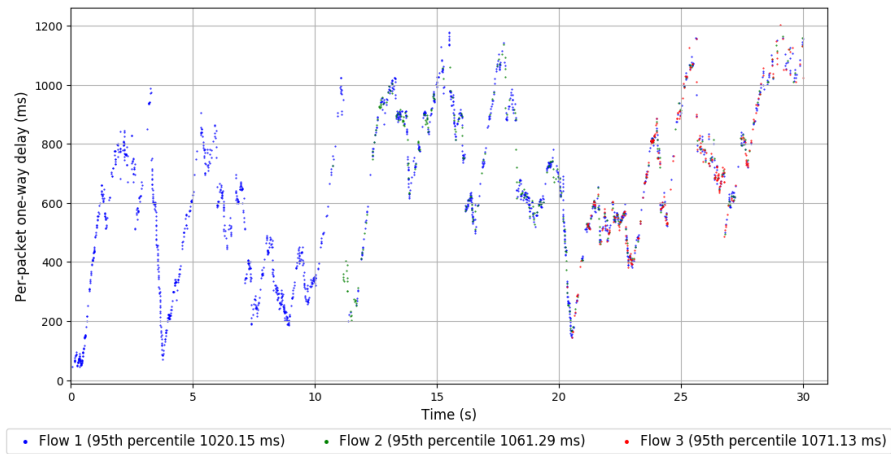
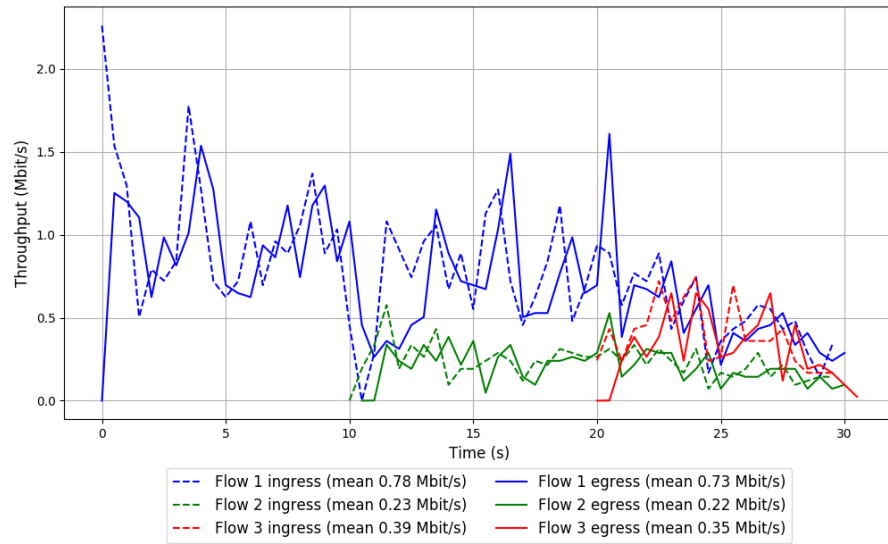
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 1071.127 ms

Loss rate: 14.72%

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



Run 8: Statistics of TCP BBR

Start at: 2018-05-24 11:27:07

End at: 2018-05-24 11:27:37

Local clock offset: 0.349 ms

Remote clock offset: 6.39 ms

# Below is generated by plot.py at 2018-05-24 12:10:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 895.173 ms

Loss rate: 2.38%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 794.953 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 935.584 ms

Loss rate: 2.29%

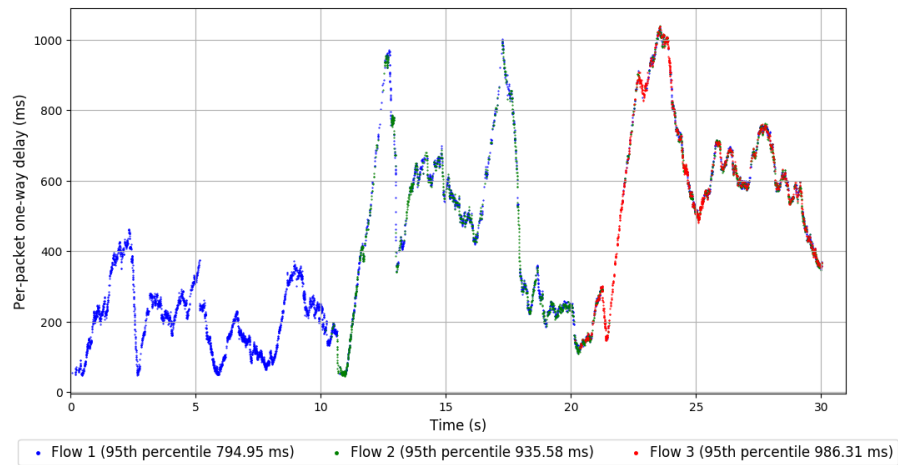
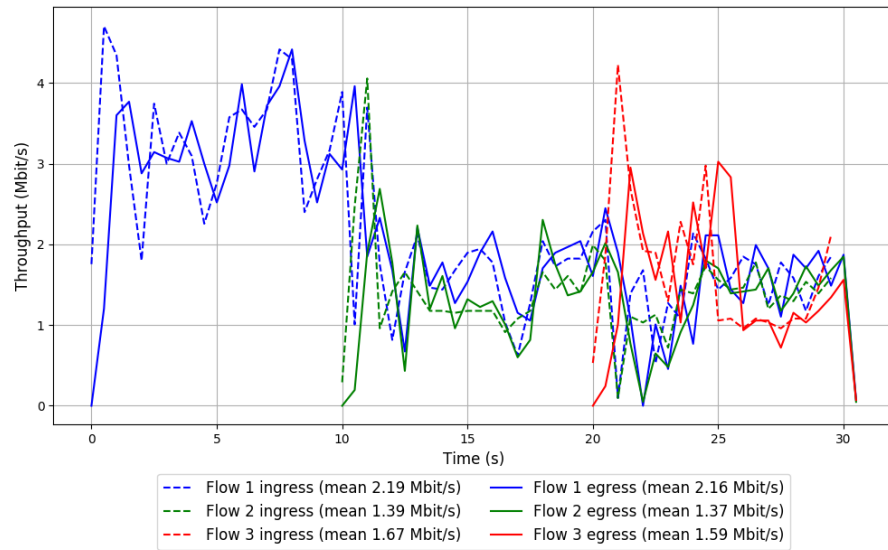
-- Flow 3:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 986.313 ms

Loss rate: 6.19%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-24 11:45:02

End at: 2018-05-24 11:45:32

Local clock offset: 3.043 ms

Remote clock offset: 4.744 ms

# Below is generated by plot.py at 2018-05-24 12:10:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 1019.988 ms

Loss rate: 7.54%

-- Flow 1:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 912.043 ms

Loss rate: 5.02%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 1017.777 ms

Loss rate: 9.54%

-- Flow 3:

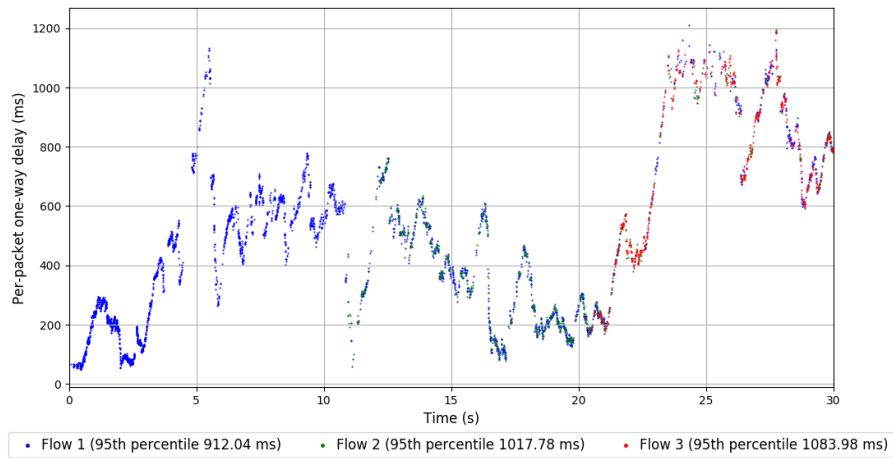
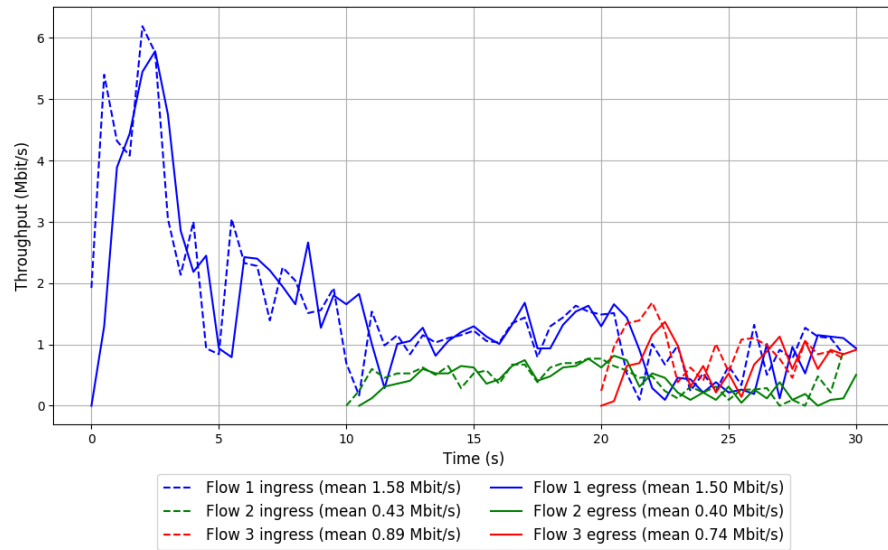
Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 1083.984 ms

Loss rate: 19.05%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-24 12:02:43

End at: 2018-05-24 12:03:13

Local clock offset: 0.806 ms

Remote clock offset: 4.474 ms

# Below is generated by plot.py at 2018-05-24 12:10:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 5.01 Mbit/s

95th percentile per-packet one-way delay: 893.447 ms

Loss rate: 2.70%

-- Flow 1:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 660.922 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 854.453 ms

Loss rate: 1.52%

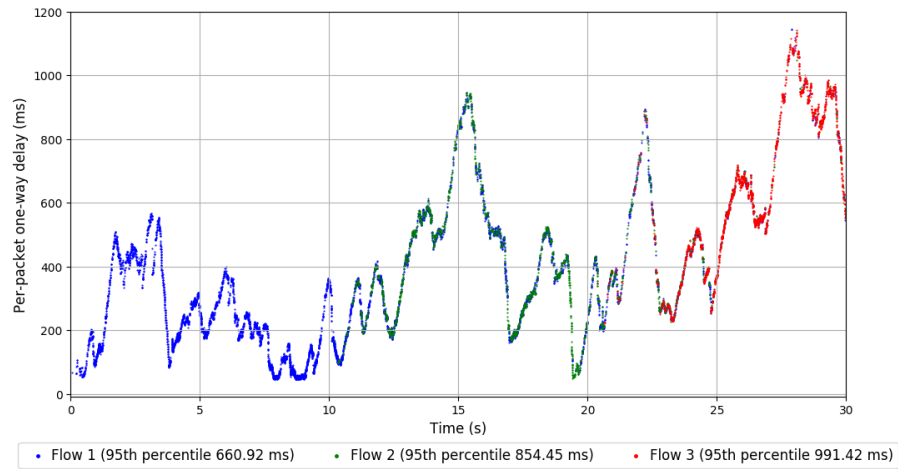
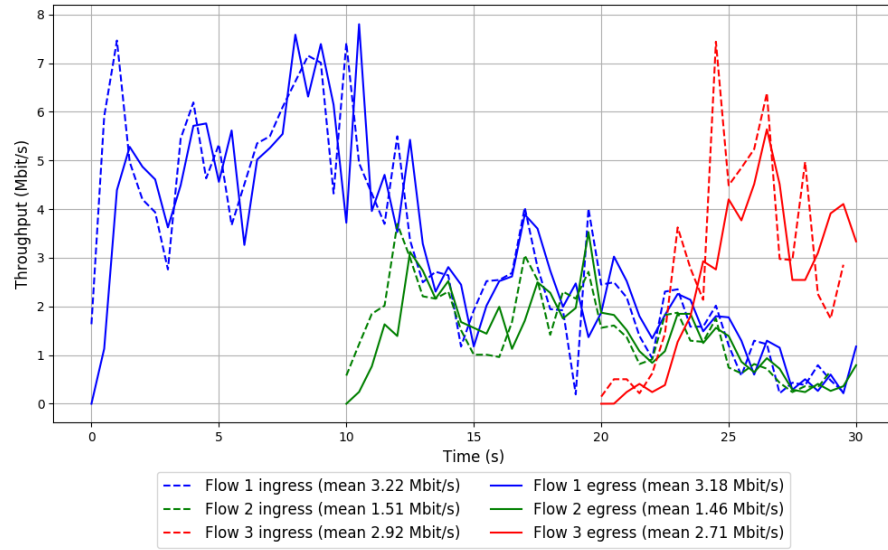
-- Flow 3:

Average throughput: 2.71 Mbit/s

95th percentile per-packet one-way delay: 991.417 ms

Loss rate: 10.20%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-24 09:17:05

End at: 2018-05-24 09:17:35

Local clock offset: -2.247 ms

Remote clock offset: 3.957 ms

# Below is generated by plot.py at 2018-05-24 12:10:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 254.443 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 206.691 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 263.270 ms

Loss rate: 0.46%

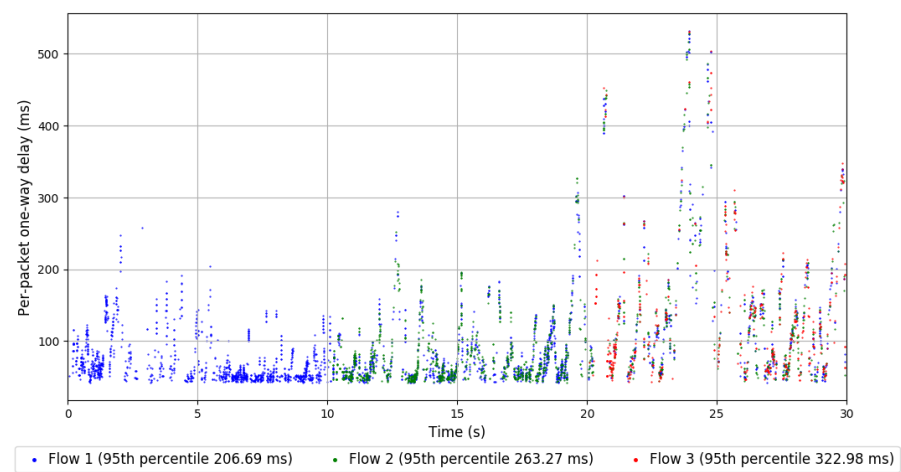
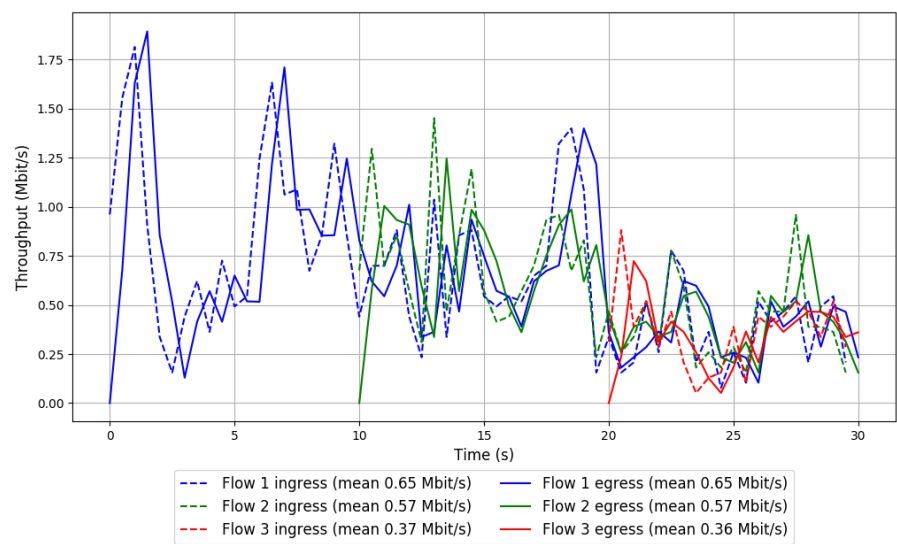
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 322.977 ms

Loss rate: 1.83%

Run 1: Report of Copa — Data Link

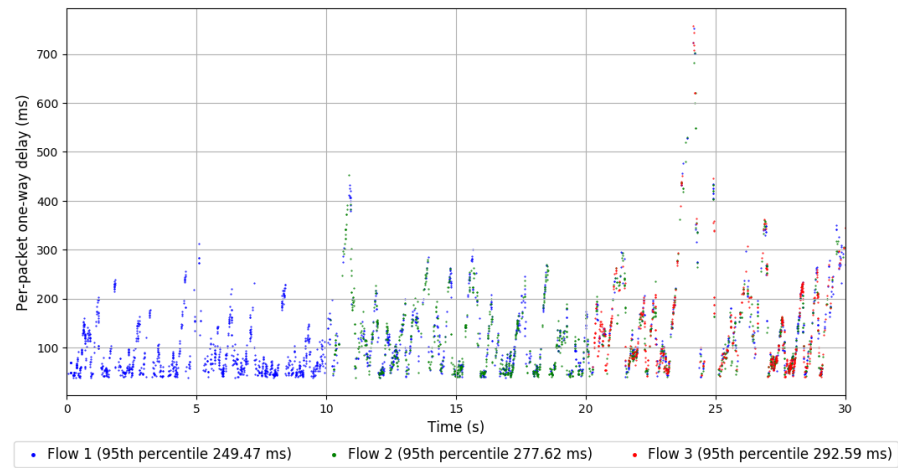
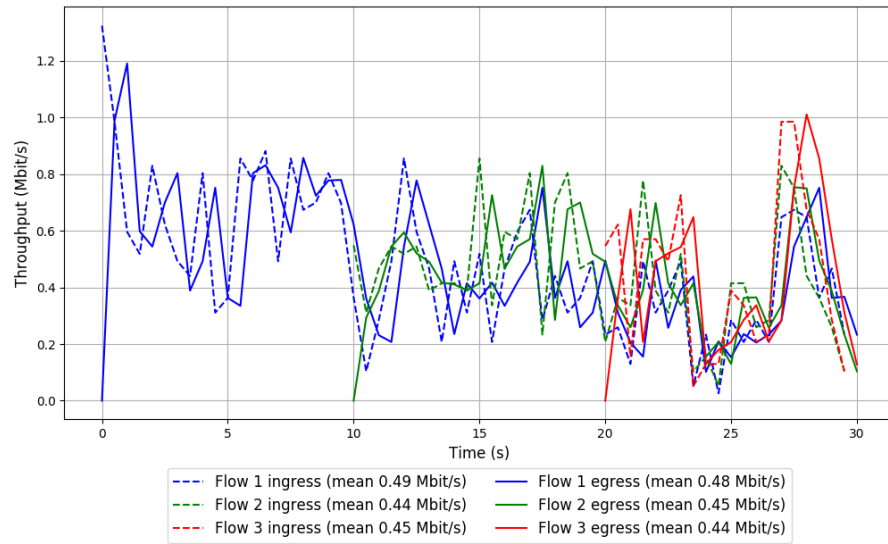


Run 2: Statistics of Copa

Start at: 2018-05-24 09:34:42  
End at: 2018-05-24 09:35:12  
Local clock offset: 0.898 ms  
Remote clock offset: 12.768 ms

# Below is generated by plot.py at 2018-05-24 12:10:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.92 Mbit/s  
95th percentile per-packet one-way delay: 265.318 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 249.468 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 277.622 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 292.594 ms  
Loss rate: 0.61%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-24 09:52:19

End at: 2018-05-24 09:52:49

Local clock offset: -3.236 ms

Remote clock offset: 6.351 ms

# Below is generated by plot.py at 2018-05-24 12:10:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 172.675 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 172.711 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 170.737 ms

Loss rate: 0.24%

-- Flow 3:

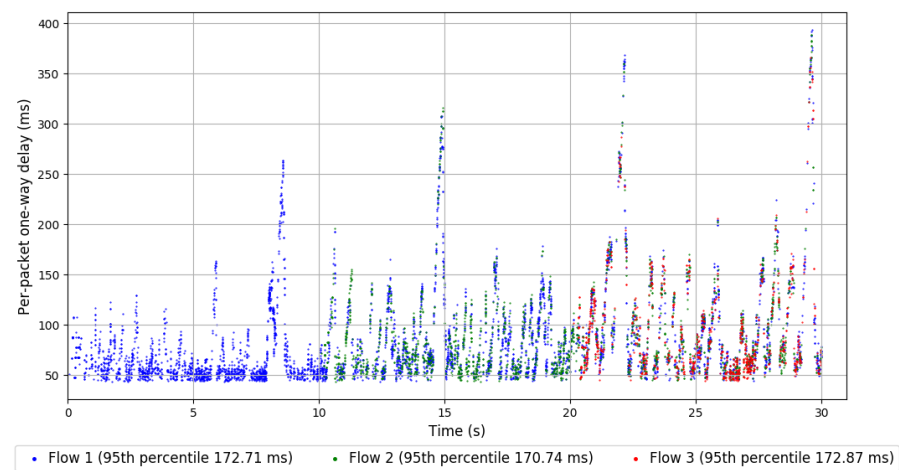
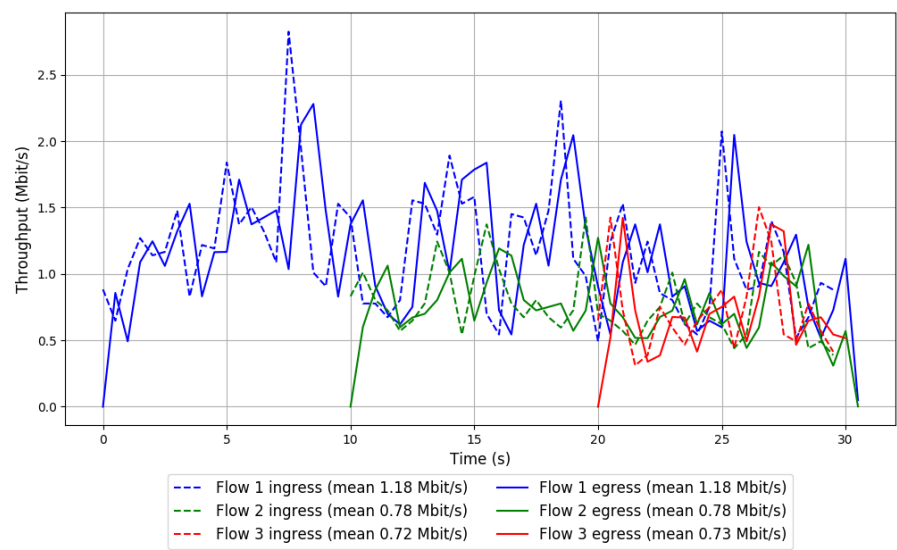
Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 172.865 ms

Loss rate: 0.73%



Run 3: Report of Copa — Data Link



#### Run 4: Statistics of Copa

Start at: 2018-05-24 10:10:02

End at: 2018-05-24 10:10:33

Local clock offset: -2.584 ms

Remote clock offset: 1.927 ms

# Below is generated by plot.py at 2018-05-24 12:10:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 154.765 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 147.026 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 1.22 Mbit/s

95th percentile per-packet one-way delay: 174.525 ms

Loss rate: 0.42%

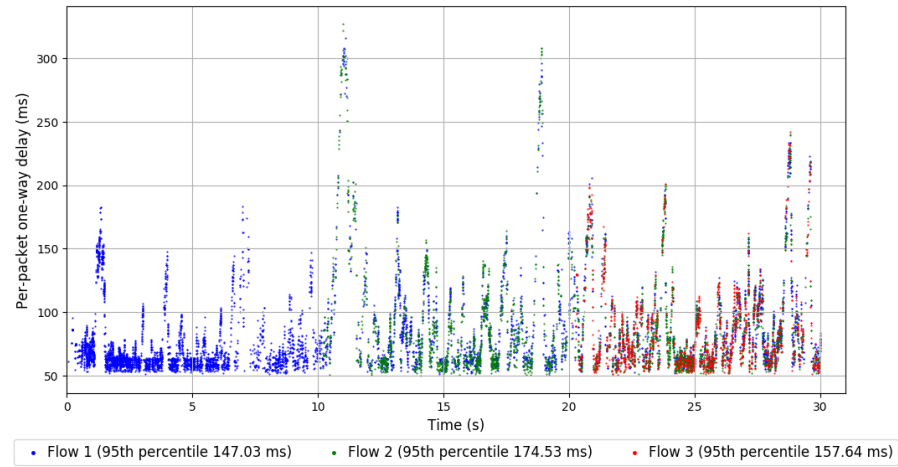
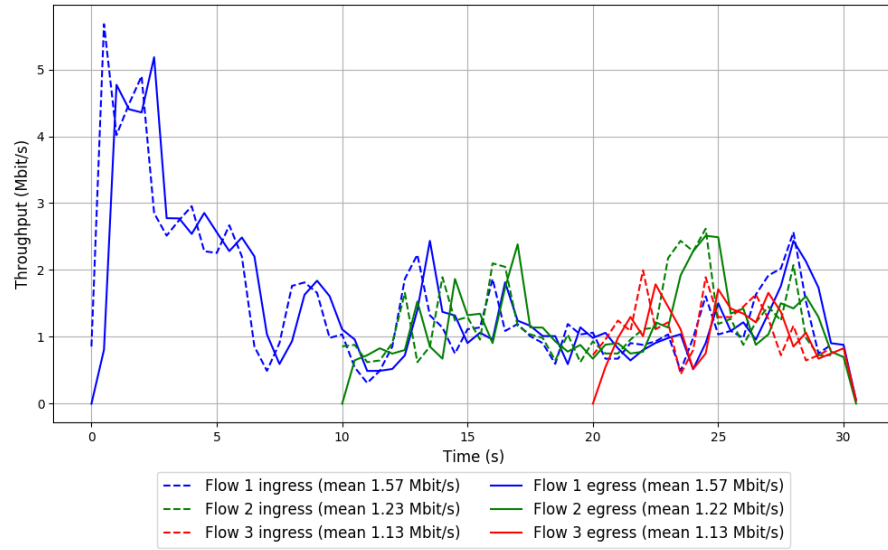
-- Flow 3:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 157.638 ms

Loss rate: 0.46%

# Run 4: Report of Copa — Data Link

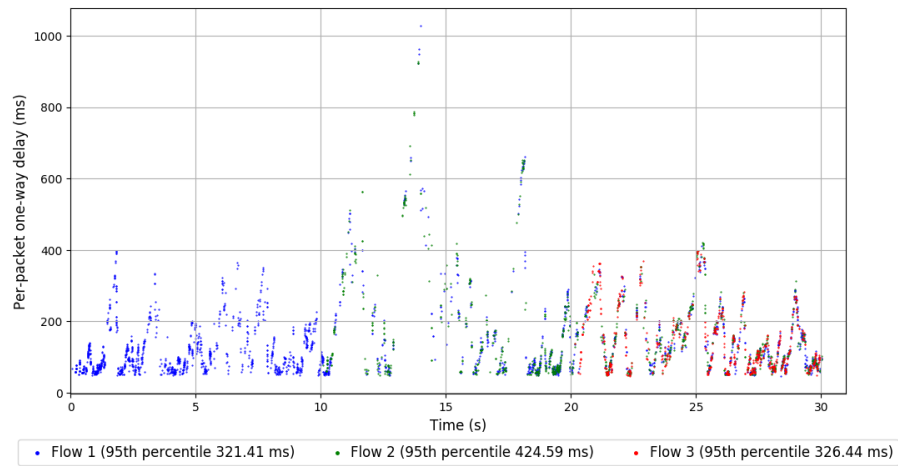
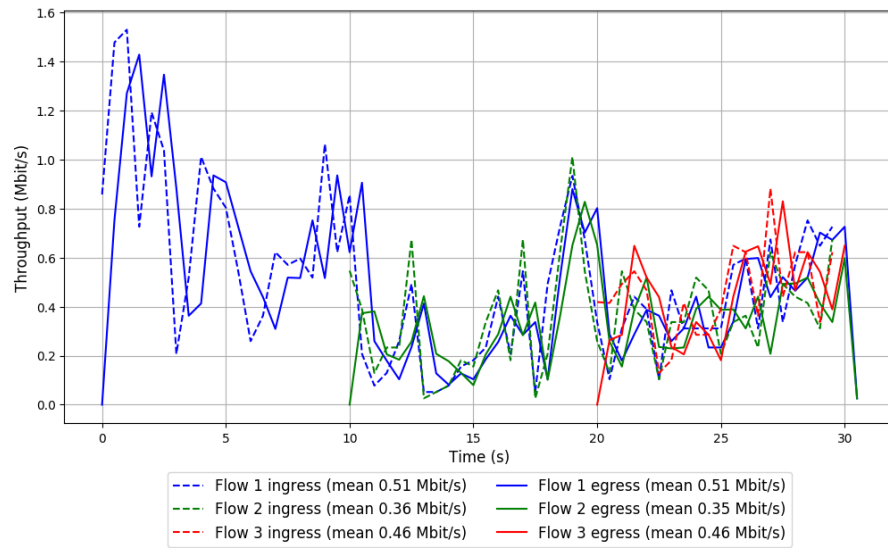


Run 5: Statistics of Copa

Start at: 2018-05-24 10:27:40  
End at: 2018-05-24 10:28:10  
Local clock offset: 0.903 ms  
Remote clock offset: -2.351 ms

# Below is generated by plot.py at 2018-05-24 12:10:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.90 Mbit/s  
95th percentile per-packet one-way delay: 344.826 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 321.407 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 424.590 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 326.439 ms  
Loss rate: 0.89%

## Run 5: Report of Copa — Data Link

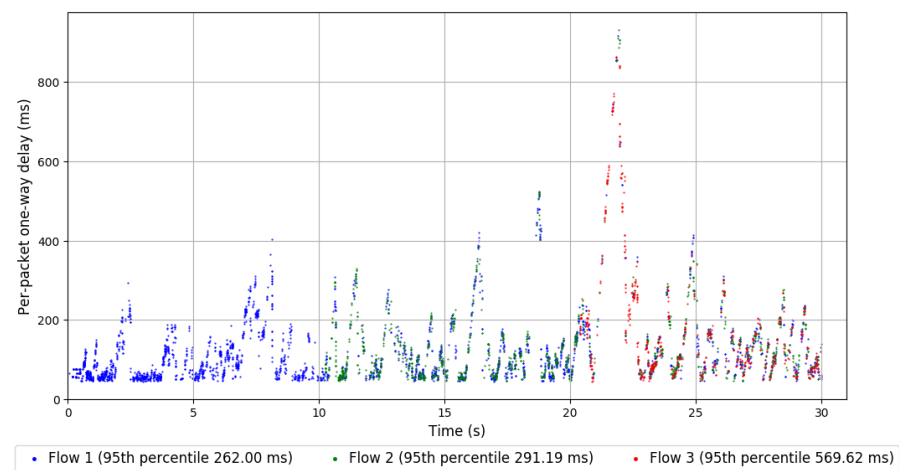
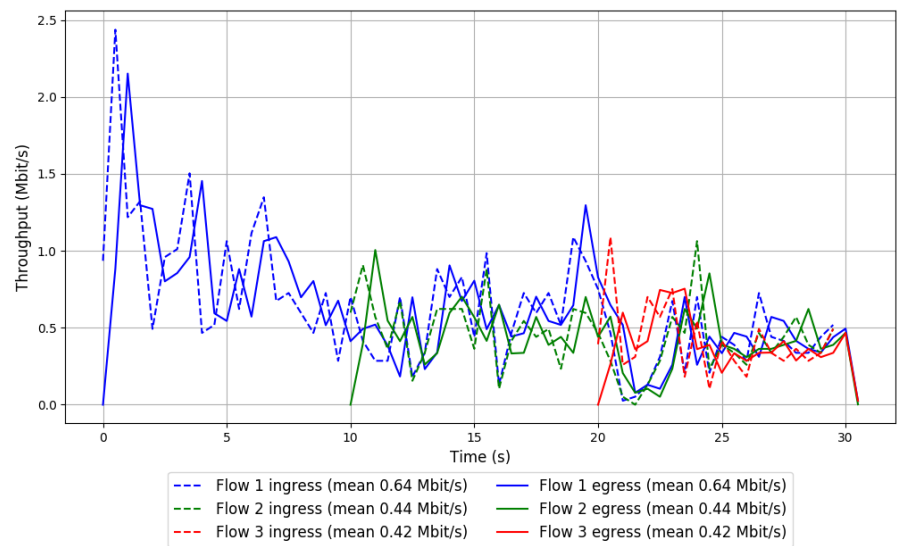


Run 6: Statistics of Copa

Start at: 2018-05-24 10:45:18  
End at: 2018-05-24 10:45:48  
Local clock offset: 0.194 ms  
Remote clock offset: -5.905 ms

# Below is generated by plot.py at 2018-05-24 12:10:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.07 Mbit/s  
95th percentile per-packet one-way delay: 297.648 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 262.002 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 291.190 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 569.624 ms  
Loss rate: 0.74%

Run 6: Report of Copa — Data Link



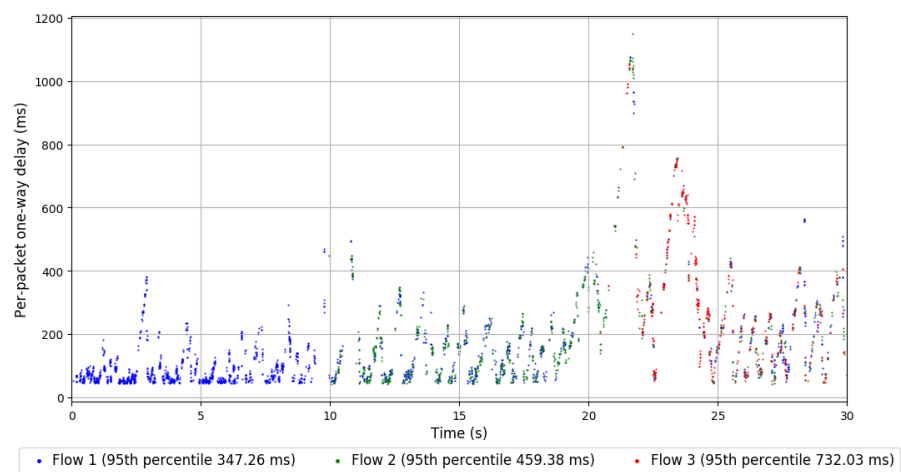
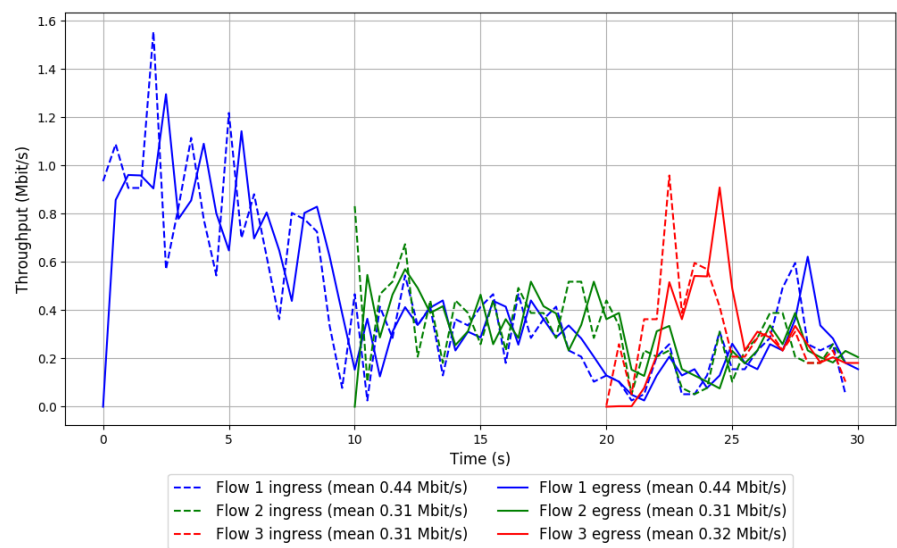
Run 7: Statistics of Copa

Start at: 2018-05-24 11:02:50  
End at: 2018-05-24 11:03:20  
Local clock offset: 1.187 ms  
Remote clock offset: 1.626 ms

```
# Below is generated by plot.py at 2018-05-24 12:10:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 480.307 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 347.256 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 459.383 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 732.034 ms
Loss rate: 2.59%
```



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-24 11:20:32

End at: 2018-05-24 11:21:02

Local clock offset: -1.302 ms

Remote clock offset: 5.184 ms

# Below is generated by plot.py at 2018-05-24 12:10:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 402.373 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 323.238 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 435.035 ms

Loss rate: 0.33%

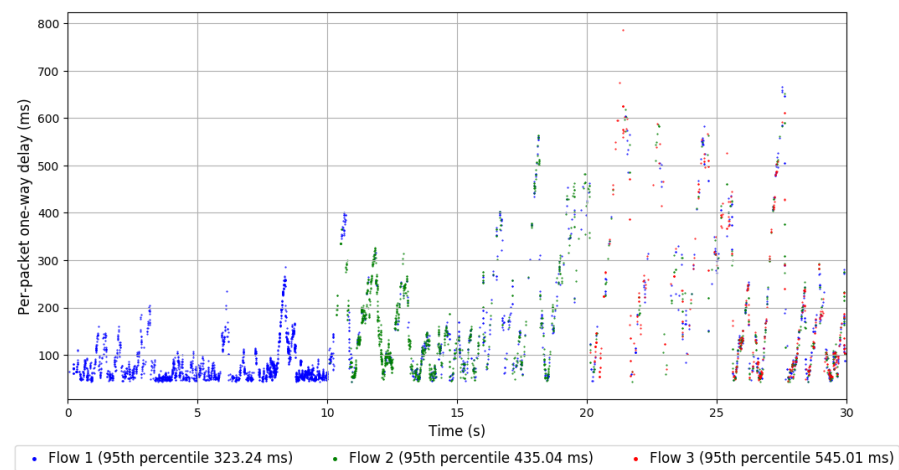
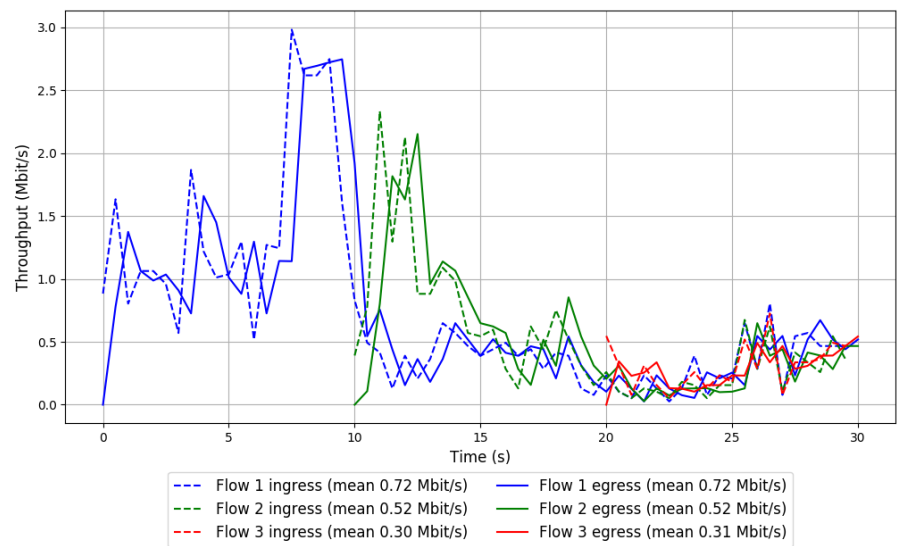
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 545.007 ms

Loss rate: 0.56%

Run 8: Report of Copa — Data Link

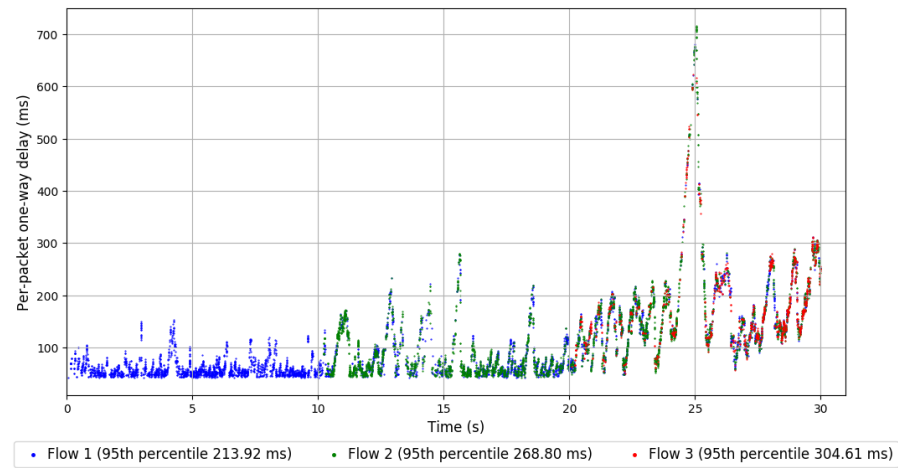
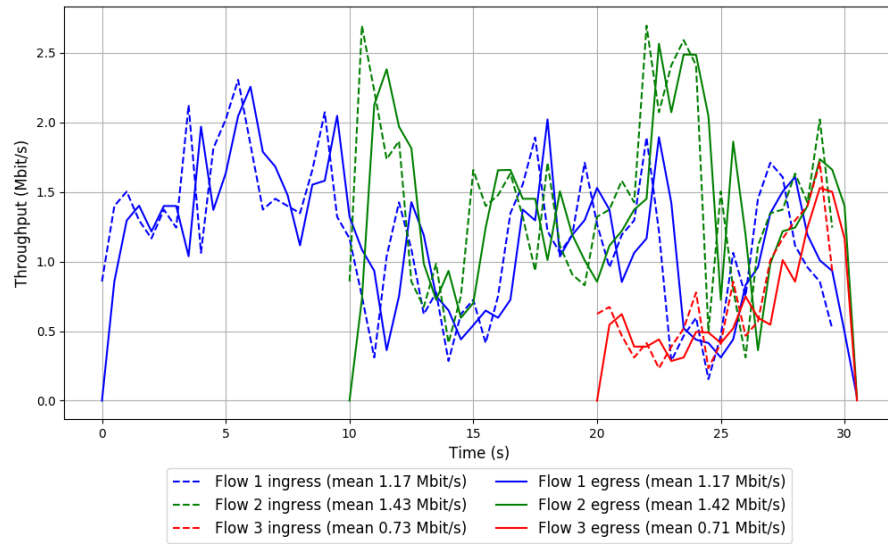


Run 9: Statistics of Copa

Start at: 2018-05-24 11:38:11  
End at: 2018-05-24 11:38:41  
Local clock offset: 1.464 ms  
Remote clock offset: 3.607 ms

```
# Below is generated by plot.py at 2018-05-24 12:10:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 259.692 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 213.920 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 268.795 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 304.613 ms
Loss rate: 2.51%
```

# Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-24 11:56:00

End at: 2018-05-24 11:56:30

Local clock offset: -2.415 ms

Remote clock offset: 4.772 ms

# Below is generated by plot.py at 2018-05-24 12:10:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 365.359 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 311.903 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 391.359 ms

Loss rate: 0.60%

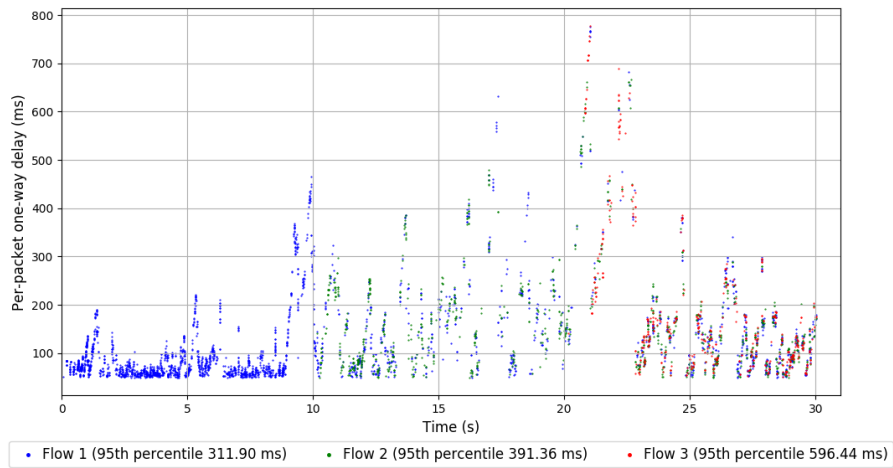
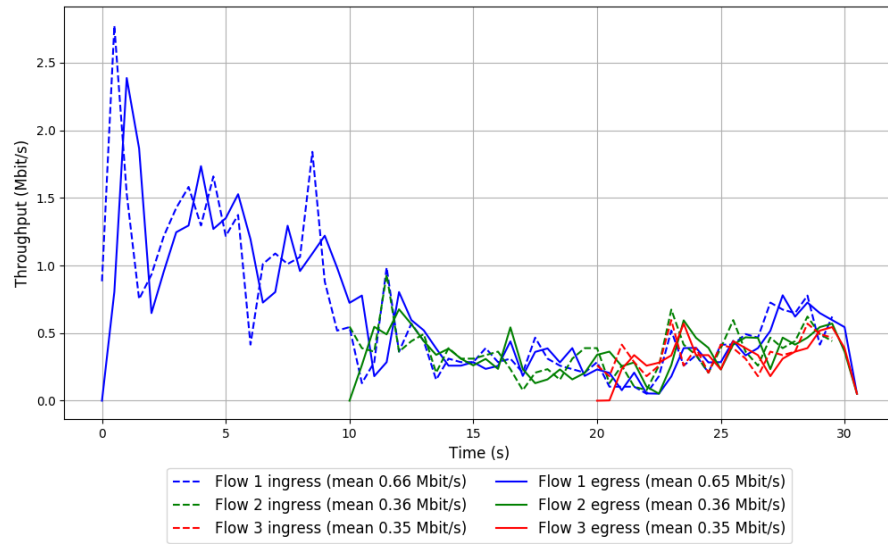
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 596.439 ms

Loss rate: 1.21%

## Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-24 09:27:01

End at: 2018-05-24 09:27:31

Local clock offset: -0.641 ms

Remote clock offset: 9.916 ms

# Below is generated by plot.py at 2018-05-24 12:10:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.79 Mbit/s

95th percentile per-packet one-way delay: 328.417 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 307.993 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 338.241 ms

Loss rate: 3.06%

-- Flow 3:

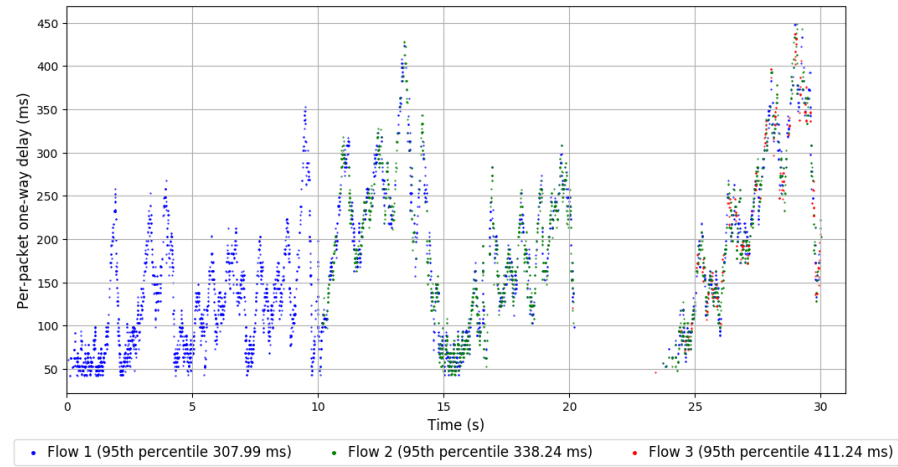
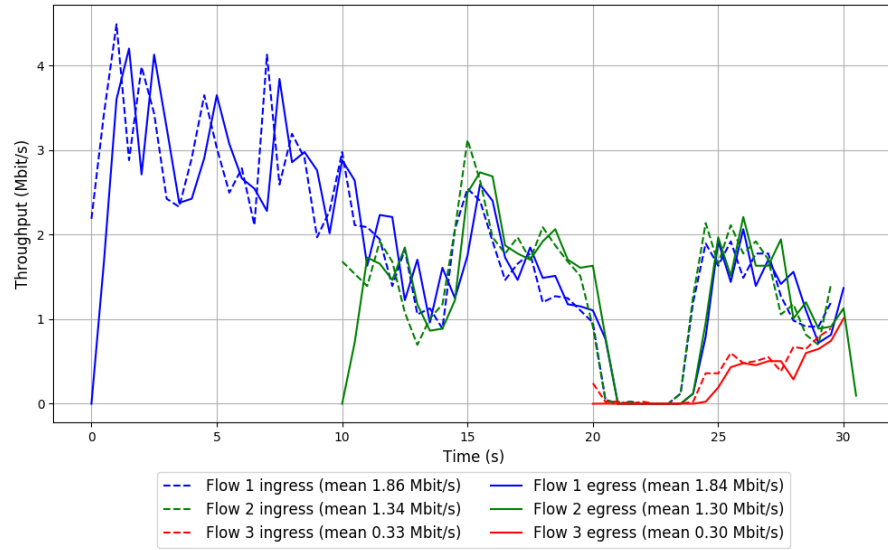
Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 411.238 ms

Loss rate: 10.62%



# Run 1: Report of TCP Cubic — Data Link

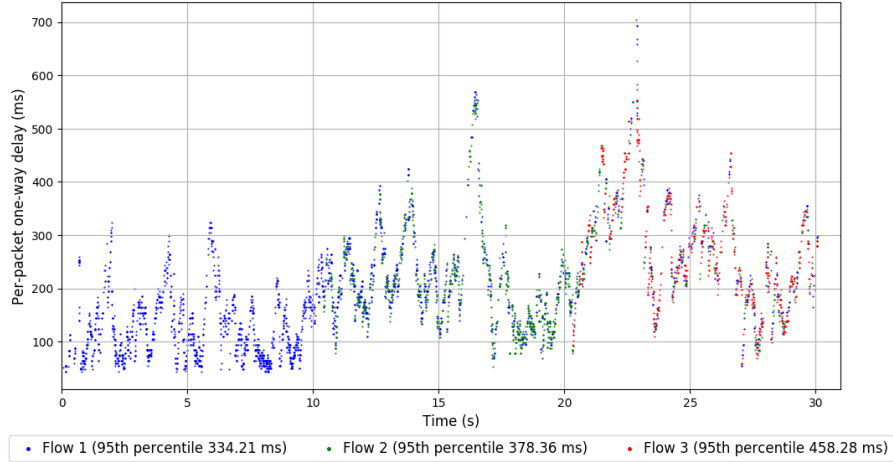
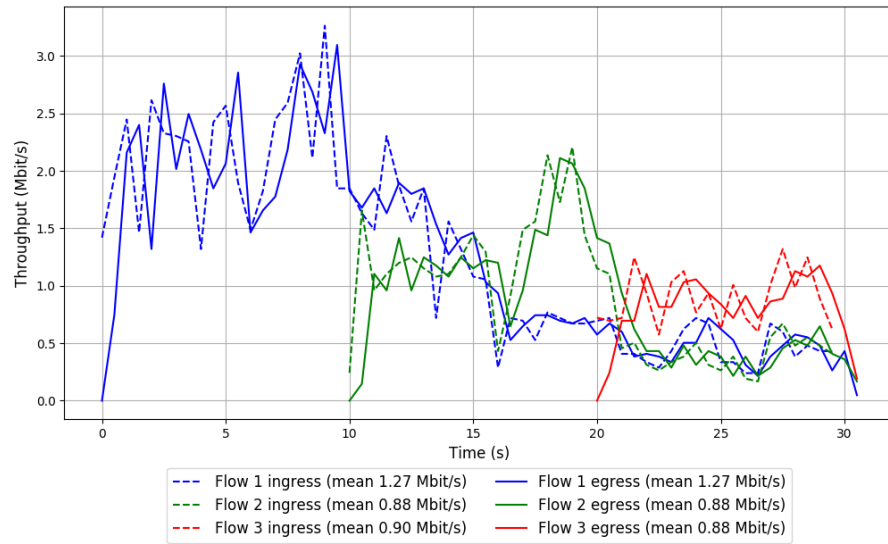


Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 09:44:35  
End at: 2018-05-24 09:45:05  
Local clock offset: -1.477 ms  
Remote clock offset: 13.438 ms

# Below is generated by plot.py at 2018-05-24 12:10:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 377.058 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 1.27 Mbit/s  
95th percentile per-packet one-way delay: 334.208 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 0.88 Mbit/s  
95th percentile per-packet one-way delay: 378.357 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 0.88 Mbit/s  
95th percentile per-packet one-way delay: 458.284 ms  
Loss rate: 1.75%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 10:02:12

End at: 2018-05-24 10:02:42

Local clock offset: -0.803 ms

Remote clock offset: 1.886 ms

# Below is generated by plot.py at 2018-05-24 12:10:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 300.086 ms

Loss rate: 0.84%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 285.854 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 305.415 ms

Loss rate: 0.80%

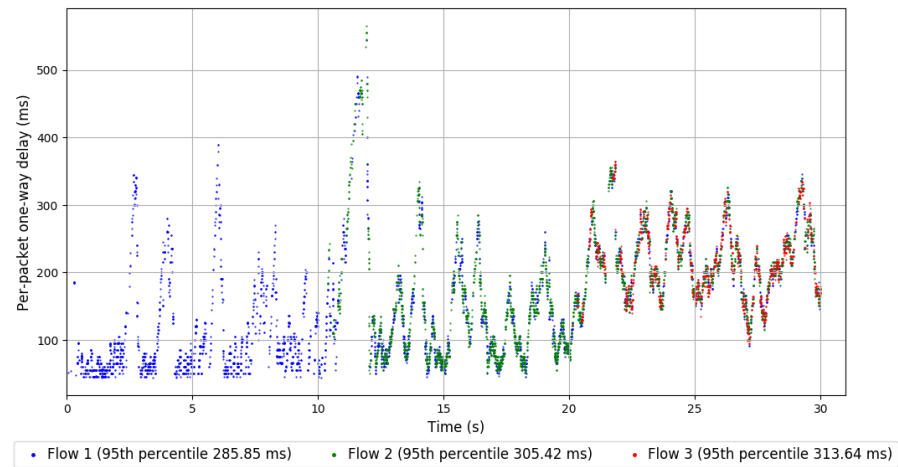
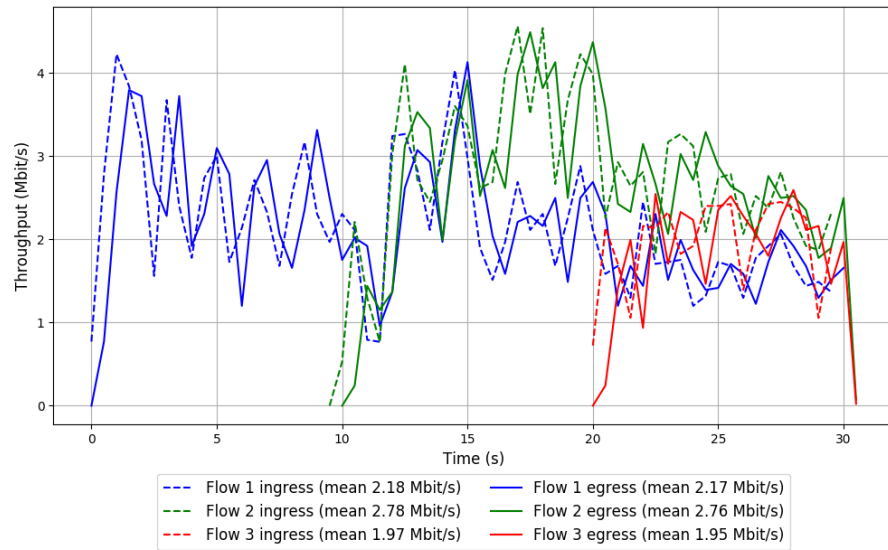
-- Flow 3:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 313.637 ms

Loss rate: 1.84%

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

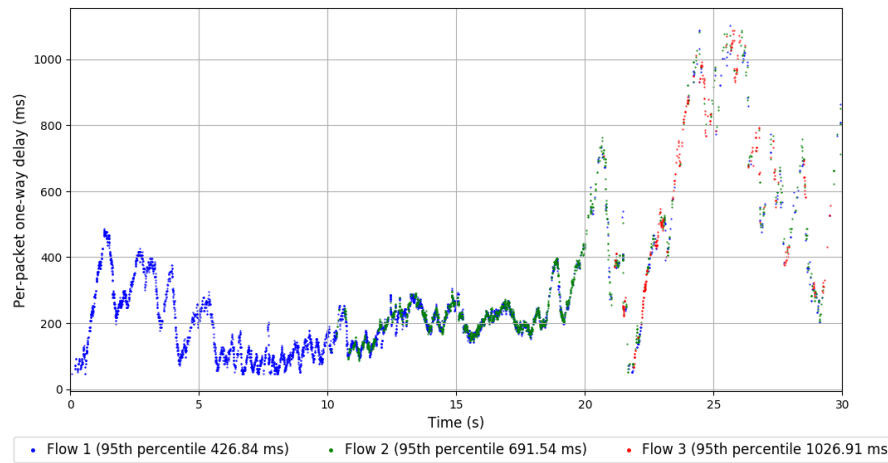
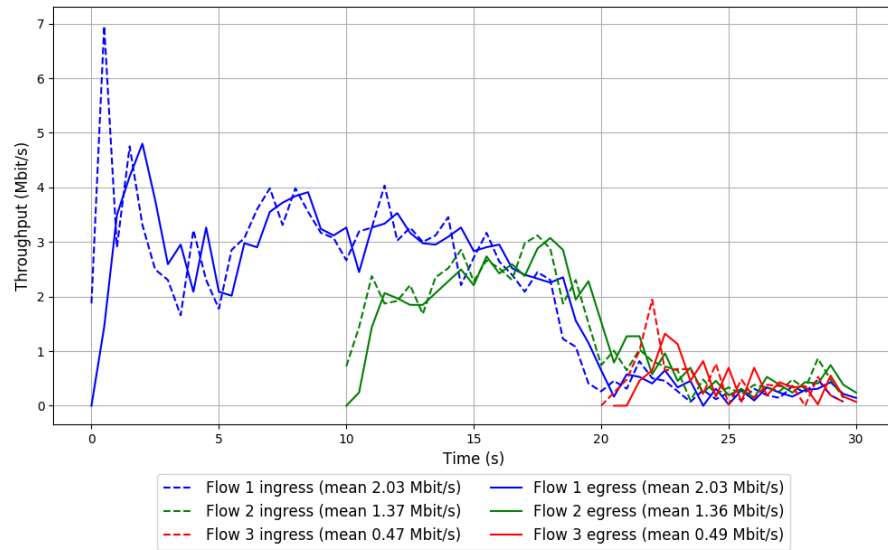


Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 10:20:00  
End at: 2018-05-24 10:20:30  
Local clock offset: 2.467 ms  
Remote clock offset: -0.378 ms

# Below is generated by plot.py at 2018-05-24 12:10:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.07 Mbit/s  
95th percentile per-packet one-way delay: 597.060 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 426.843 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 1.36 Mbit/s  
95th percentile per-packet one-way delay: 691.543 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 1026.906 ms  
Loss rate: 6.53%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 10:37:31

End at: 2018-05-24 10:38:01

Local clock offset: -2.315 ms

Remote clock offset: -5.33 ms

# Below is generated by plot.py at 2018-05-24 12:10:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 765.288 ms

Loss rate: 3.82%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 860.969 ms

Loss rate: 3.17%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 635.820 ms

Loss rate: 3.46%

-- Flow 3:

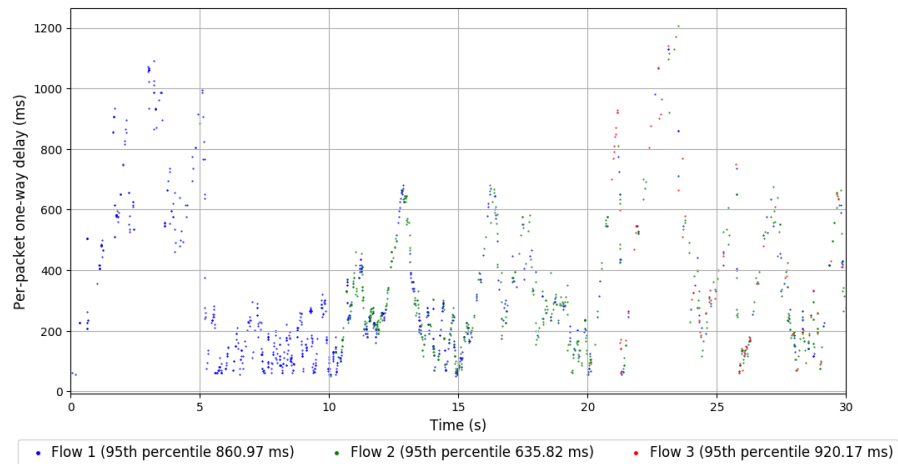
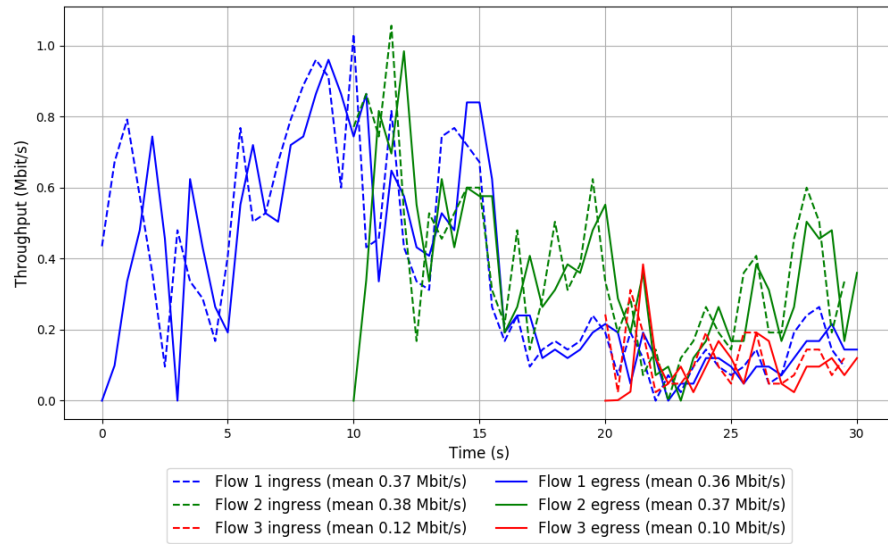
Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 920.174 ms

Loss rate: 12.23%



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

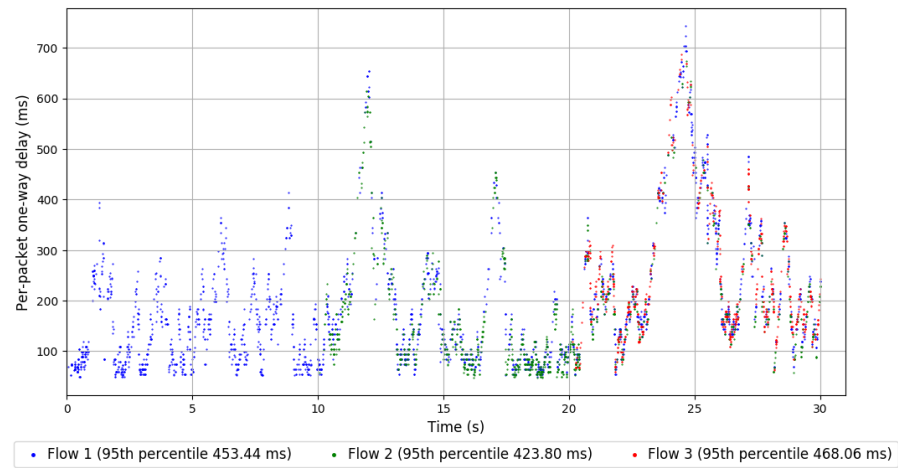
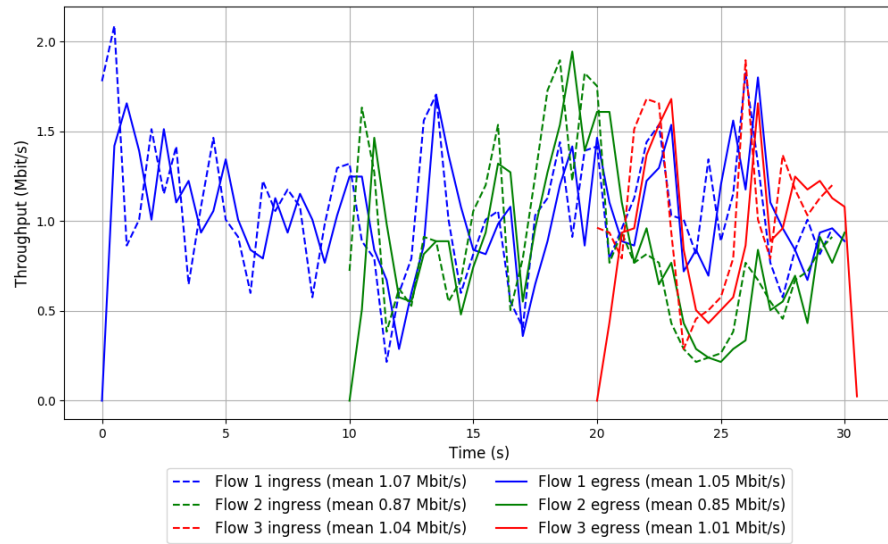


Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 10:55:11  
End at: 2018-05-24 10:55:41  
Local clock offset: 0.79 ms  
Remote clock offset: -1.049 ms

# Below is generated by plot.py at 2018-05-24 12:10:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.95 Mbit/s  
95th percentile per-packet one-way delay: 453.392 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 1.05 Mbit/s  
95th percentile per-packet one-way delay: 453.444 ms  
Loss rate: 1.13%  
-- Flow 2:  
Average throughput: 0.85 Mbit/s  
95th percentile per-packet one-way delay: 423.795 ms  
Loss rate: 1.26%  
-- Flow 3:  
Average throughput: 1.01 Mbit/s  
95th percentile per-packet one-way delay: 468.057 ms  
Loss rate: 3.25%

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



Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 11:12:46

End at: 2018-05-24 11:13:16

Local clock offset: -7.417 ms

Remote clock offset: 7.714 ms

# Below is generated by plot.py at 2018-05-24 12:10:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 718.214 ms

Loss rate: 3.30%

-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 683.041 ms

Loss rate: 2.62%

-- Flow 2:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 768.072 ms

Loss rate: 2.92%

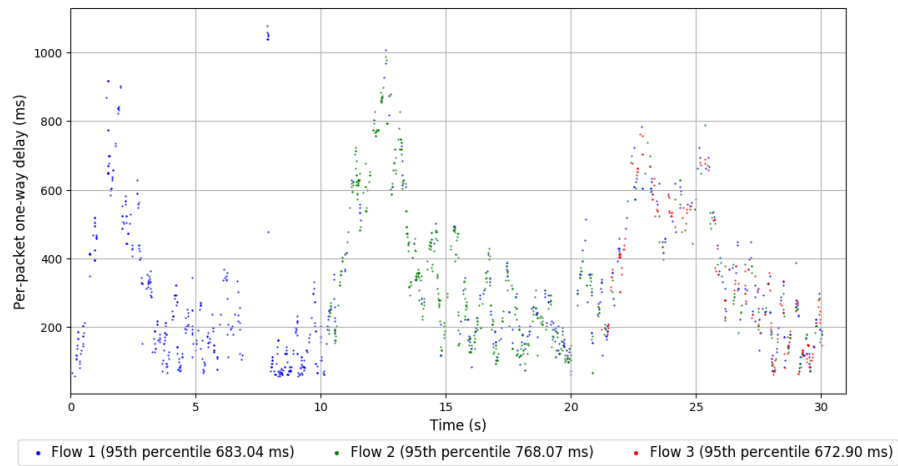
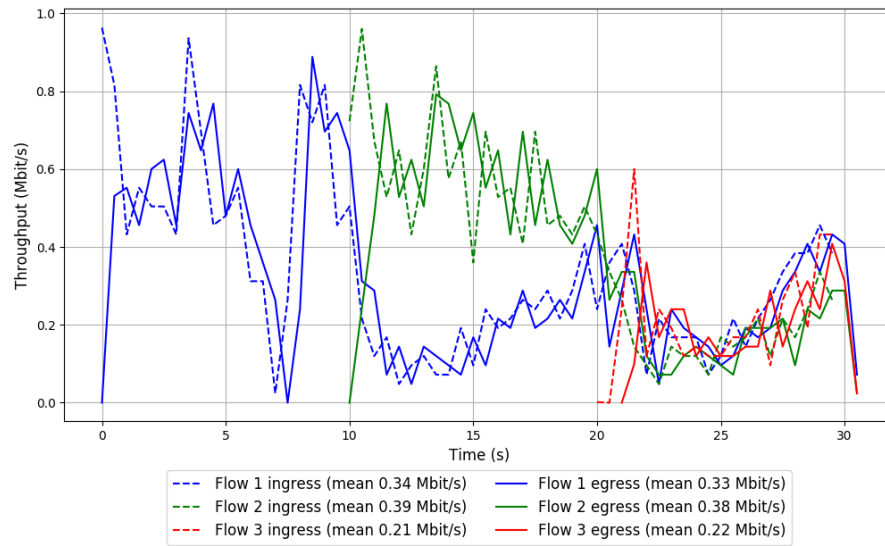
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 672.898 ms

Loss rate: 7.98%

# Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 11:30:30

End at: 2018-05-24 11:31:00

Local clock offset: -1.975 ms

Remote clock offset: 5.899 ms

# Below is generated by plot.py at 2018-05-24 12:10:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 461.751 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 421.330 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 490.989 ms

Loss rate: 2.38%

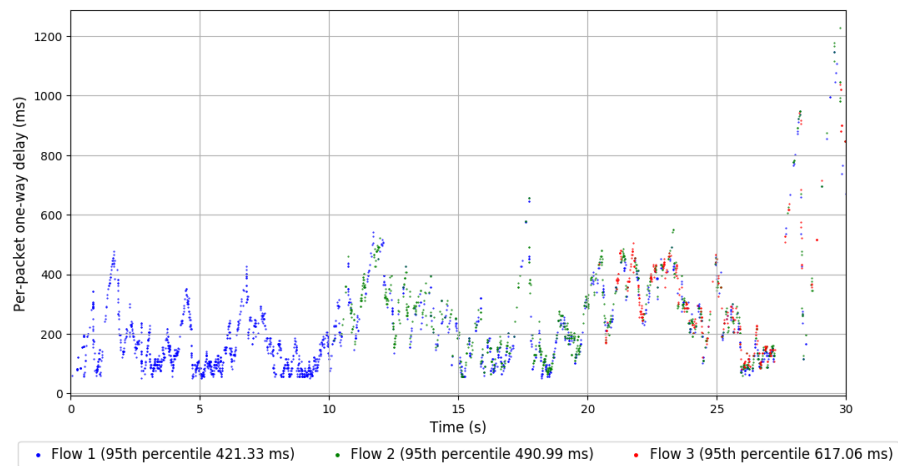
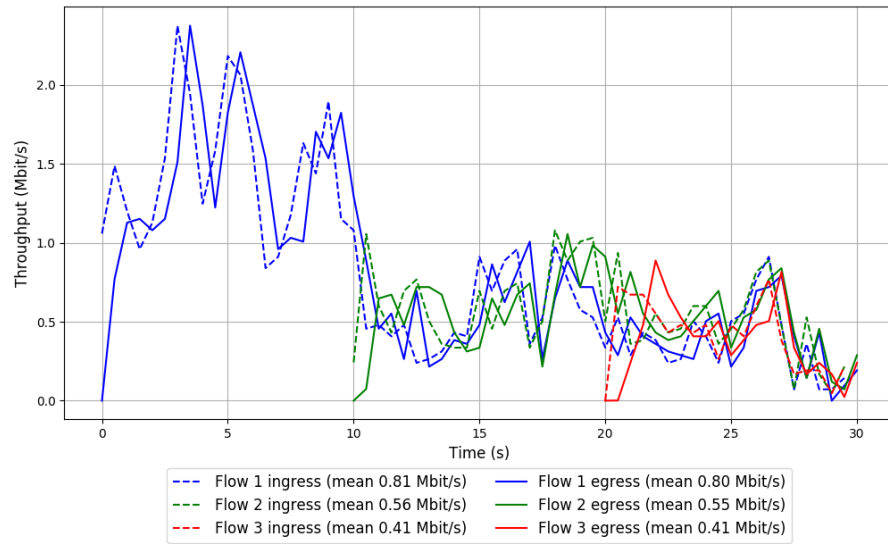
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 617.057 ms

Loss rate: 4.70%

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



Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 11:48:21

End at: 2018-05-24 11:48:51

Local clock offset: 1.009 ms

Remote clock offset: 5.44 ms

# Below is generated by plot.py at 2018-05-24 12:10:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 375.524 ms

Loss rate: 1.12%

-- Flow 1:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 361.042 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 366.267 ms

Loss rate: 1.52%

-- Flow 3:

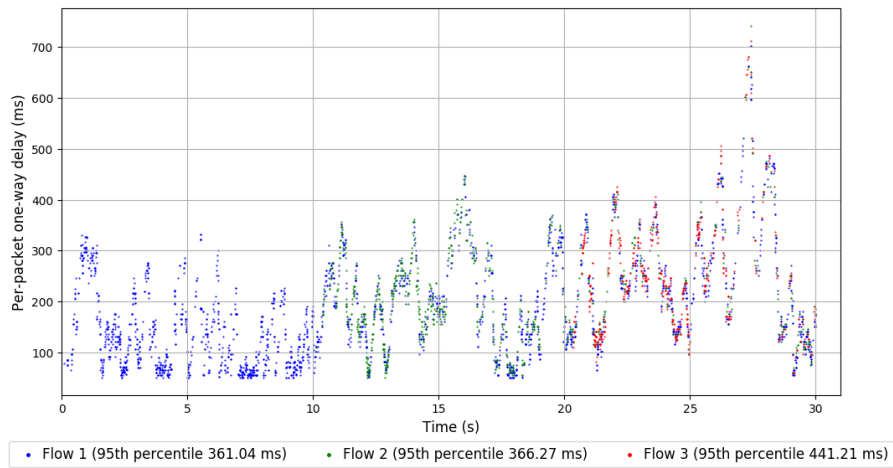
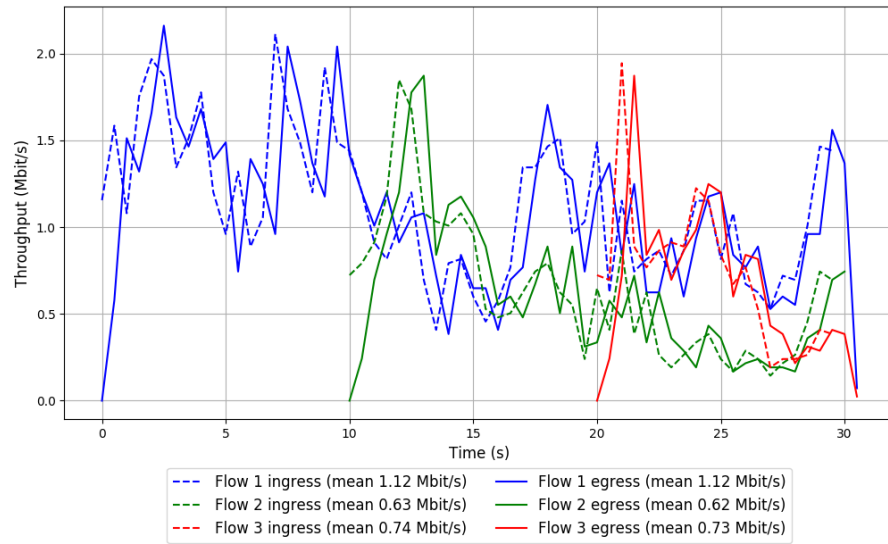
Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 441.207 ms

Loss rate: 1.64%



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



Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 12:06:03

End at: 2018-05-24 12:06:33

Local clock offset: 2.937 ms

Remote clock offset: 2.471 ms

# Below is generated by plot.py at 2018-05-24 12:10:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 377.579 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 375.848 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 386.320 ms

Loss rate: 2.94%

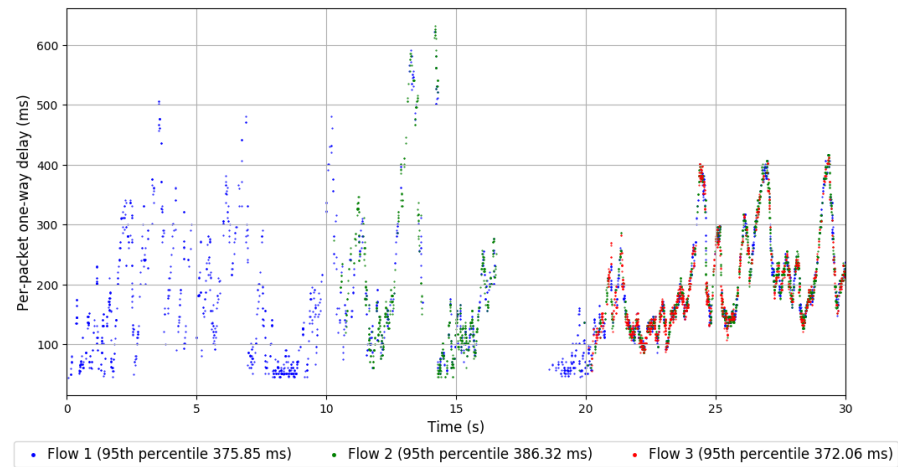
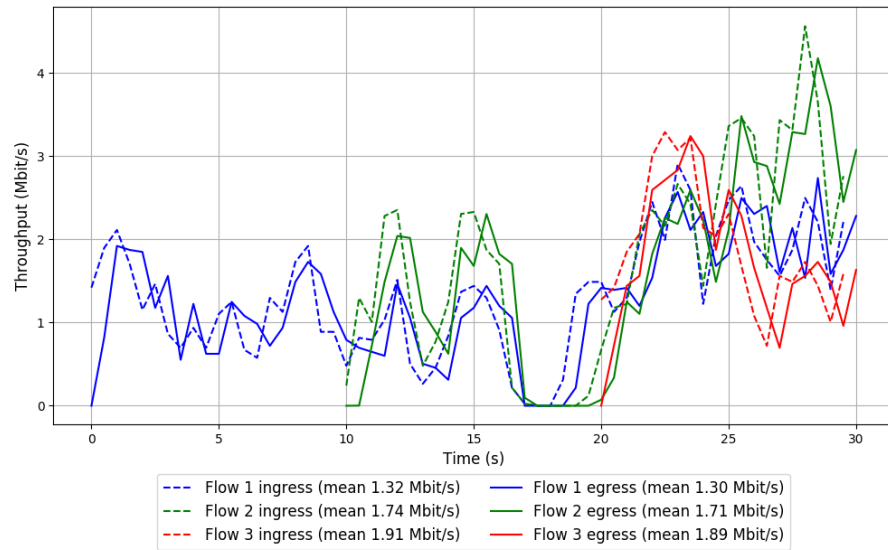
-- Flow 3:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 372.061 ms

Loss rate: 1.96%

# Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-24 09:20:27

End at: 2018-05-24 09:20:57

Local clock offset: 2.418 ms

Remote clock offset: 6.875 ms

# Below is generated by plot.py at 2018-05-24 12:10:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 1122.949 ms

Loss rate: 72.60%

-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 1121.018 ms

Loss rate: 75.43%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 1127.477 ms

Loss rate: 59.09%

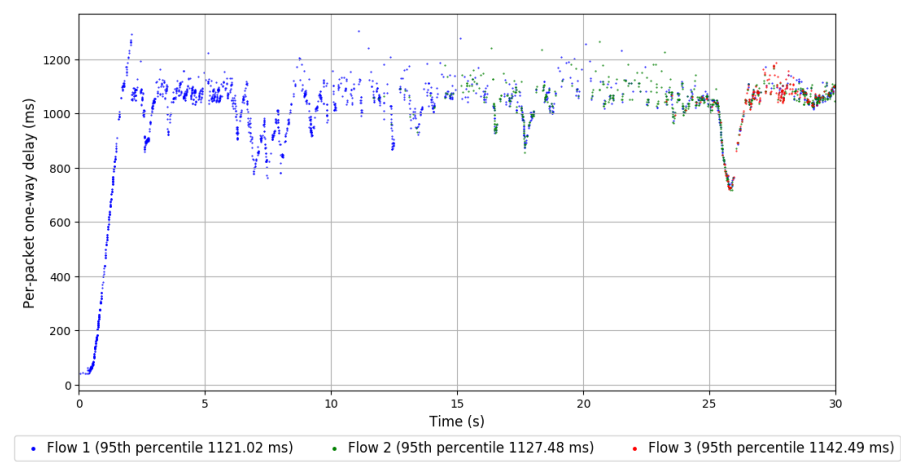
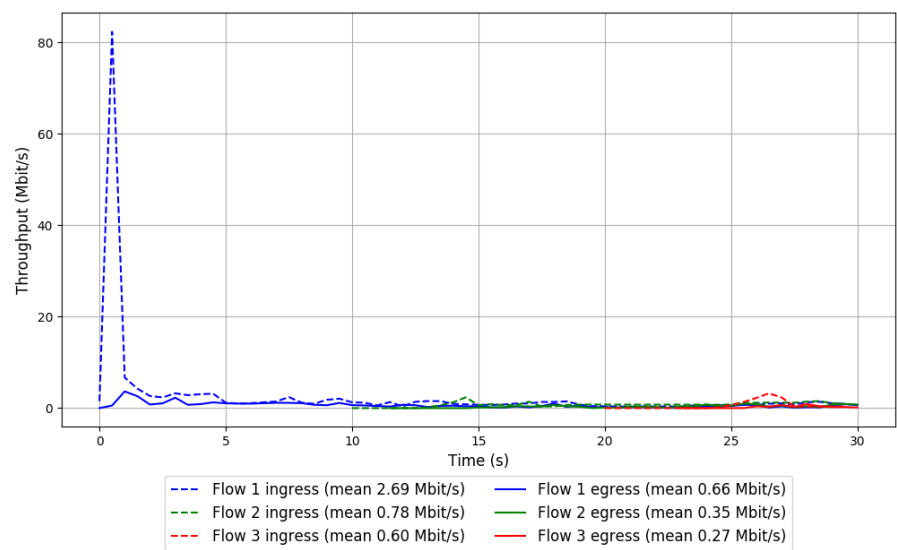
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 1142.494 ms

Loss rate: 69.63%

Run 1: Report of FillP — Data Link

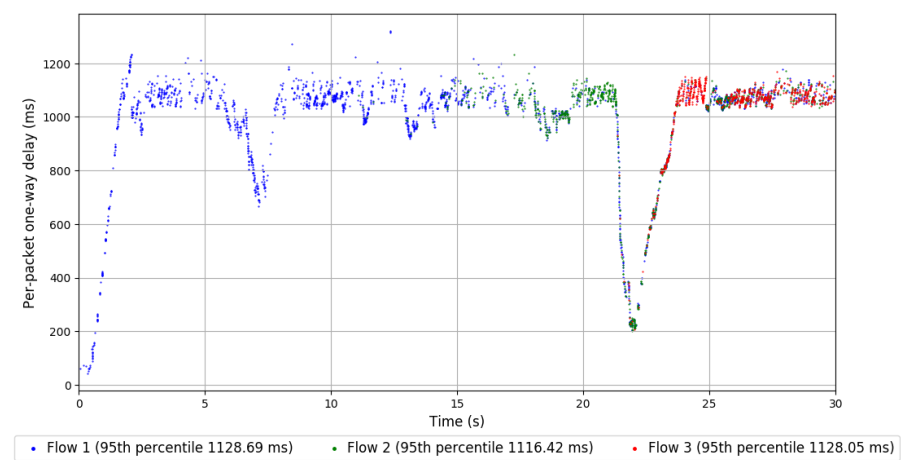
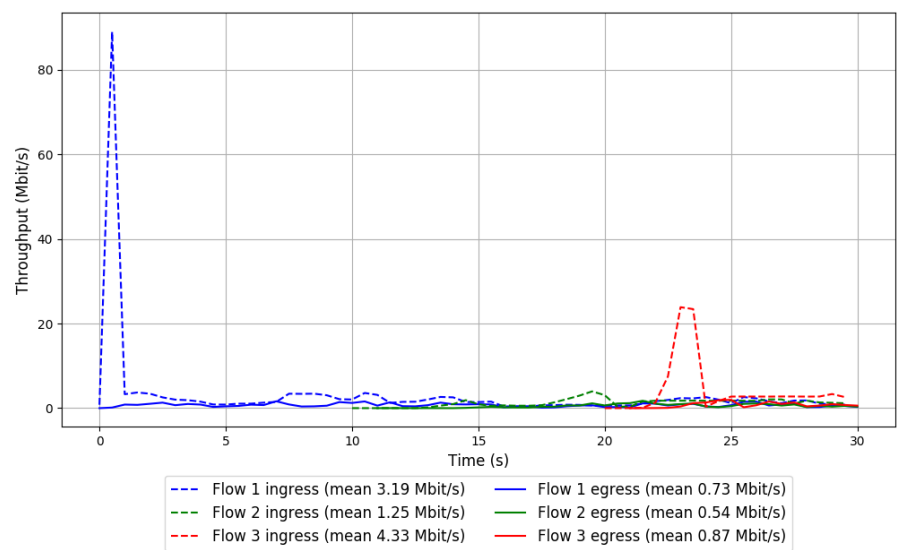


Run 2: Statistics of FillP

Start at: 2018-05-24 09:37:59  
End at: 2018-05-24 09:38:29  
Local clock offset: 1.245 ms  
Remote clock offset: 14.253 ms

# Below is generated by plot.py at 2018-05-24 12:10:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.32 Mbit/s  
95th percentile per-packet one-way delay: 1126.460 ms  
Loss rate: 75.87%  
-- Flow 1:  
Average throughput: 0.73 Mbit/s  
95th percentile per-packet one-way delay: 1128.691 ms  
Loss rate: 77.21%  
-- Flow 2:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 1116.423 ms  
Loss rate: 59.20%  
-- Flow 3:  
Average throughput: 0.87 Mbit/s  
95th percentile per-packet one-way delay: 1128.052 ms  
Loss rate: 82.60%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-24 09:55:37

End at: 2018-05-24 09:56:07

Local clock offset: -2.744 ms

Remote clock offset: 4.281 ms

# Below is generated by plot.py at 2018-05-24 12:10:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 1457.044 ms

Loss rate: 66.99%

-- Flow 1:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 1123.708 ms

Loss rate: 66.47%

-- Flow 2:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 1115.730 ms

Loss rate: 46.92%

-- Flow 3:

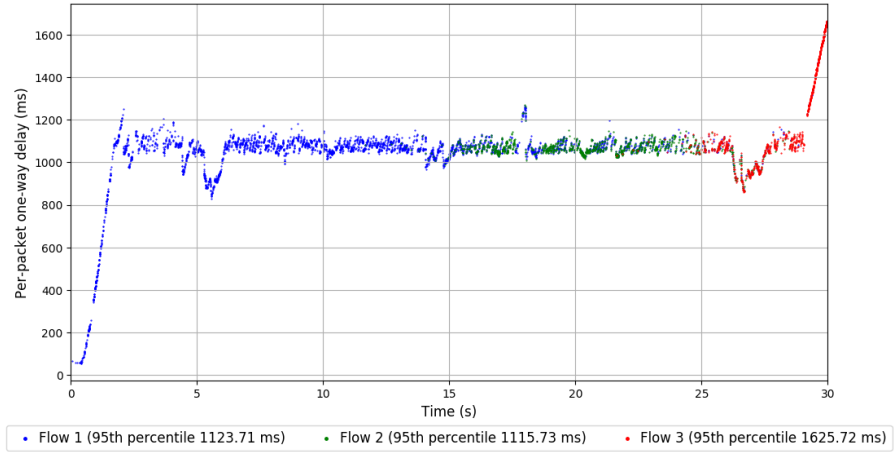
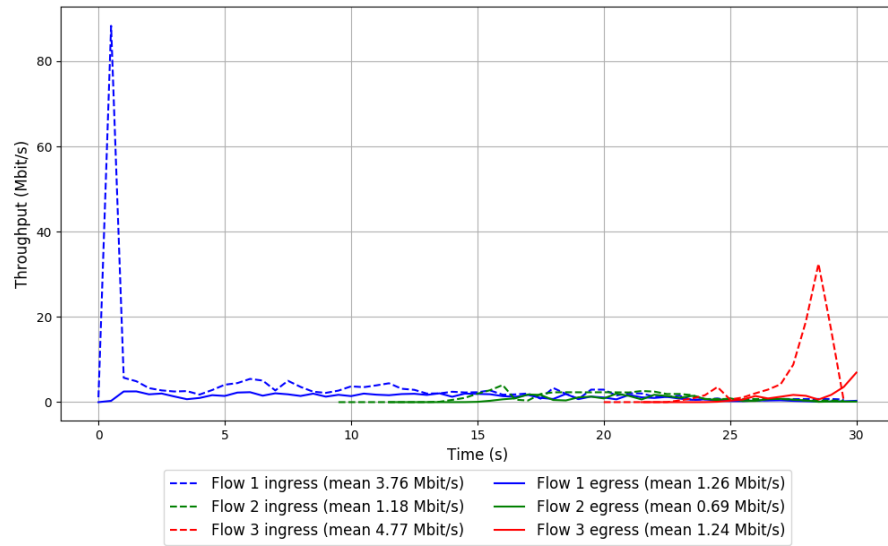
Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 1625.720 ms

Loss rate: 78.23%



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



Run 4: Statistics of FillP

Start at: 2018-05-24 10:13:25

End at: 2018-05-24 10:13:55

Local clock offset: 2.185 ms

Remote clock offset: 1.124 ms

# Below is generated by plot.py at 2018-05-24 12:10:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 1157.912 ms

Loss rate: 58.59%

-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 1145.113 ms

Loss rate: 59.76%

-- Flow 2:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 1294.837 ms

Loss rate: 54.83%

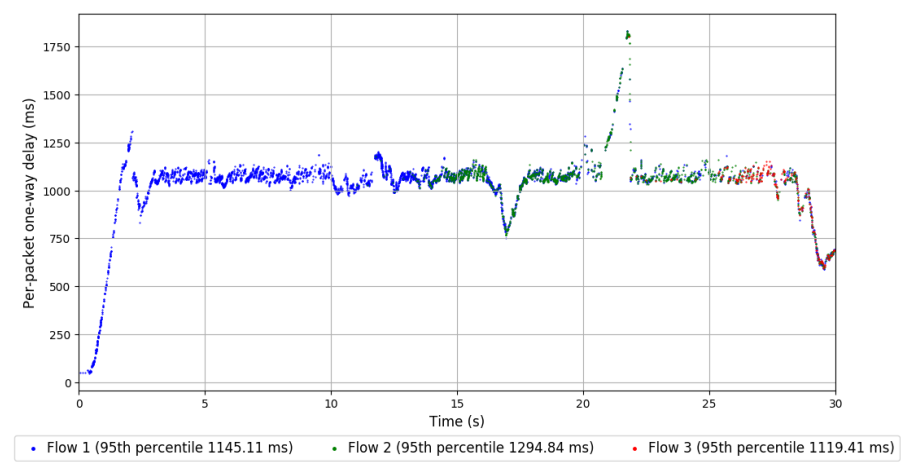
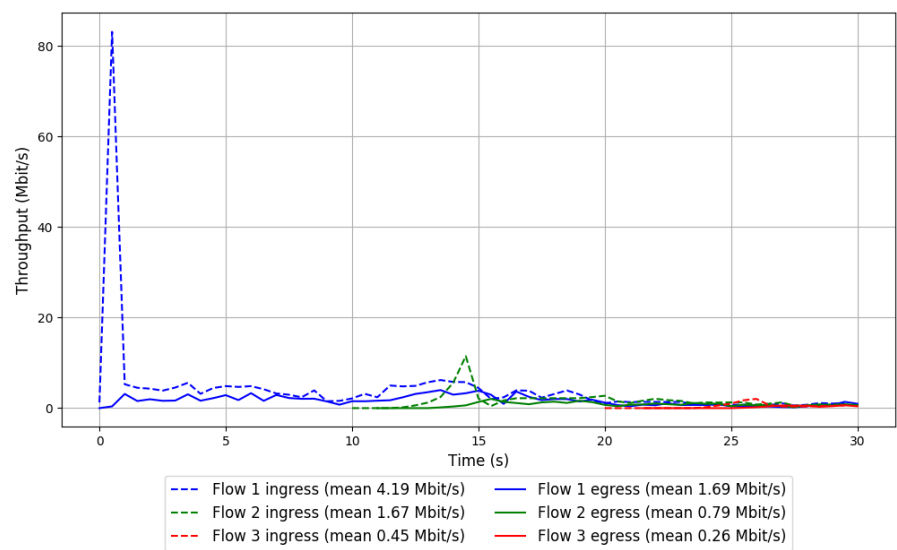
-- Flow 3:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 1119.408 ms

Loss rate: 53.55%

Run 4: Report of FillP — Data Link

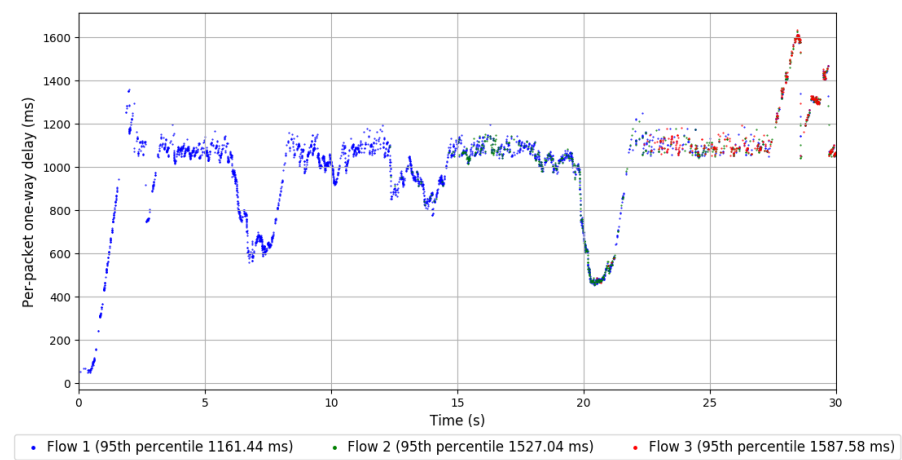
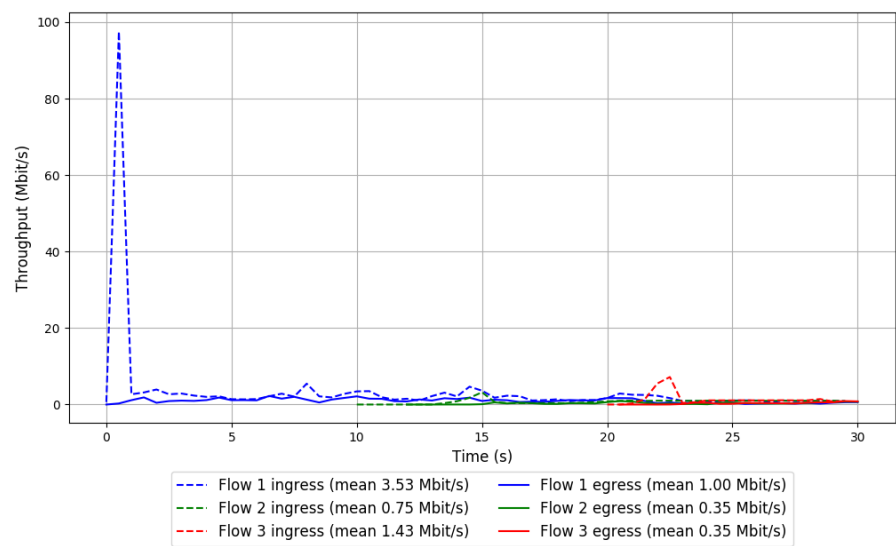


Run 5: Statistics of FillP

Start at: 2018-05-24 10:30:56  
End at: 2018-05-24 10:31:26  
Local clock offset: -1.188 ms  
Remote clock offset: -4.587 ms

# Below is generated by plot.py at 2018-05-24 12:10:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.32 Mbit/s  
95th percentile per-packet one-way delay: 1323.210 ms  
Loss rate: 70.73%  
-- Flow 1:  
Average throughput: 1.00 Mbit/s  
95th percentile per-packet one-way delay: 1161.442 ms  
Loss rate: 71.66%  
-- Flow 2:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 1527.042 ms  
Loss rate: 58.61%  
-- Flow 3:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 1587.581 ms  
Loss rate: 76.52%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-24 10:48:35

End at: 2018-05-24 10:49:05

Local clock offset: 0.138 ms

Remote clock offset: -5.7 ms

# Below is generated by plot.py at 2018-05-24 12:10:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.32 Mbit/s

95th percentile per-packet one-way delay: 1134.712 ms

Loss rate: 69.83%

-- Flow 1:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 1145.228 ms

Loss rate: 74.50%

-- Flow 2:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 1121.755 ms

Loss rate: 45.87%

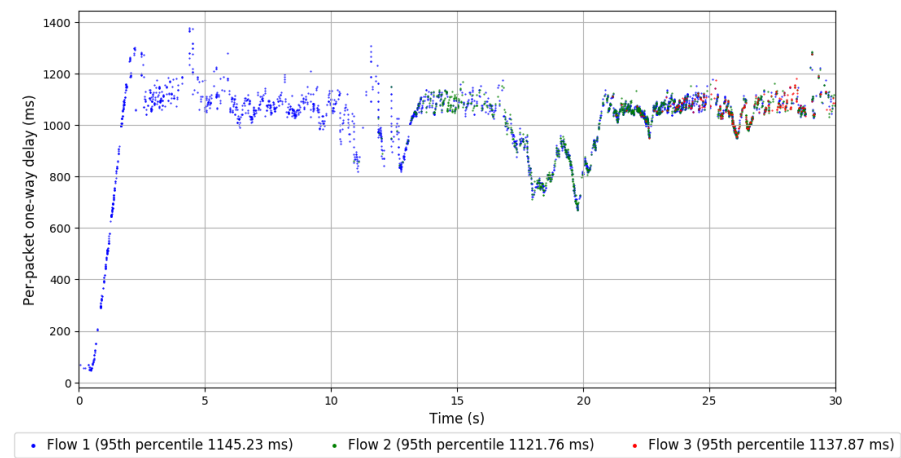
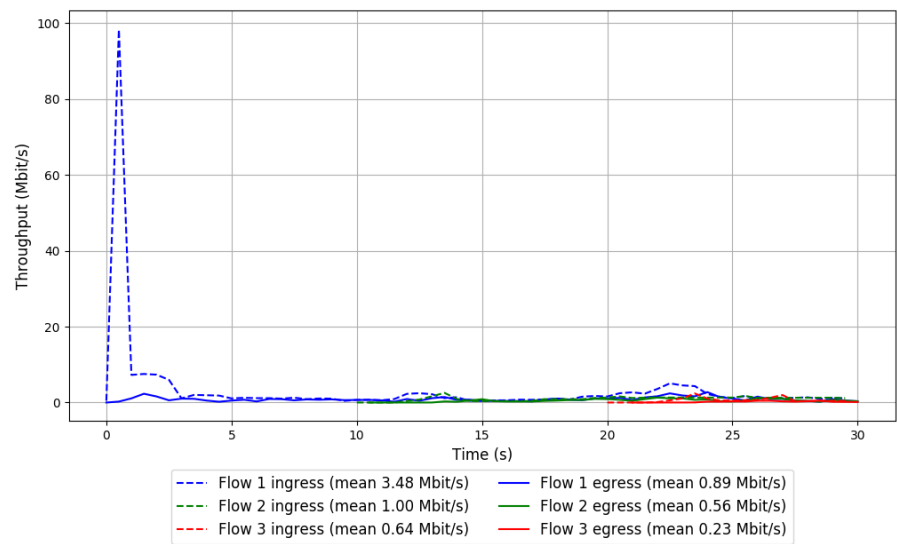
-- Flow 3:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 1137.868 ms

Loss rate: 68.24%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-24 11:06:07

End at: 2018-05-24 11:06:37

Local clock offset: 0.668 ms

Remote clock offset: 4.511 ms

# Below is generated by plot.py at 2018-05-24 12:10:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 1121.049 ms

Loss rate: 64.92%

-- Flow 1:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 1123.741 ms

Loss rate: 67.25%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1113.214 ms

Loss rate: 45.12%

-- Flow 3:

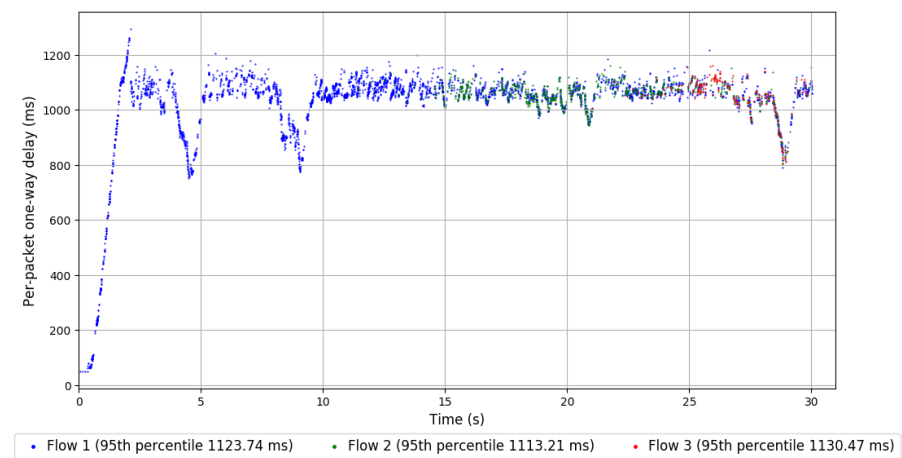
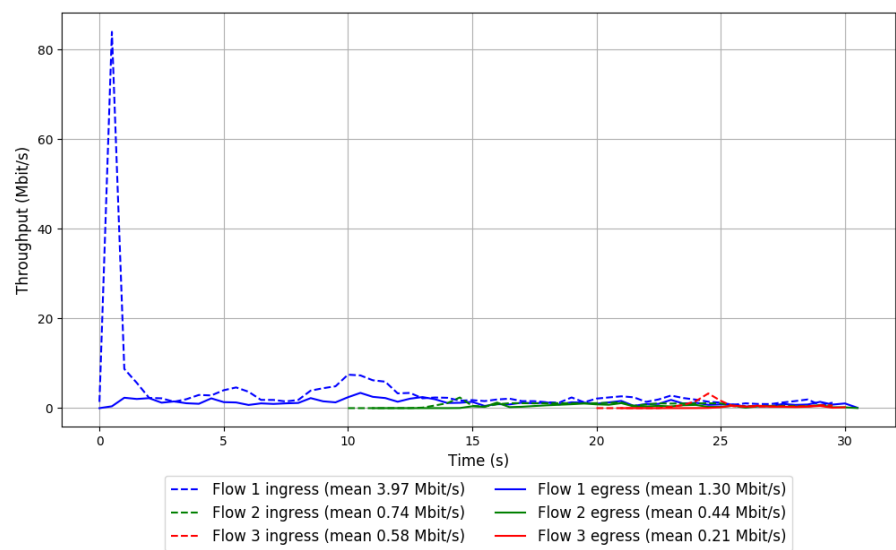
Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 1130.473 ms

Loss rate: 67.49%



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-24 11:23:49

End at: 2018-05-24 11:24:19

Local clock offset: 1.783 ms

Remote clock offset: 6.968 ms

# Below is generated by plot.py at 2018-05-24 12:10:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 1178.325 ms

Loss rate: 76.26%

-- Flow 1:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 1156.838 ms

Loss rate: 77.99%

-- Flow 2:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 1244.534 ms

Loss rate: 66.43%

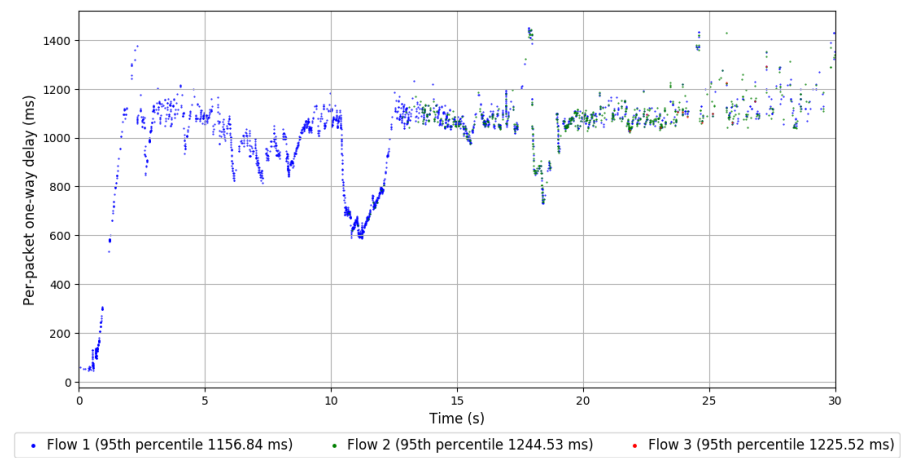
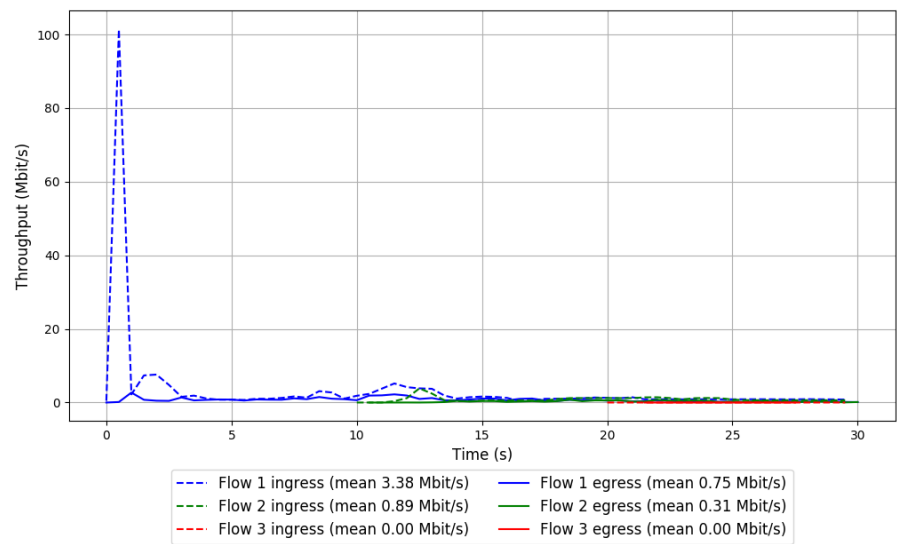
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1225.522 ms

Loss rate: 74.49%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-24 11:41:34

End at: 2018-05-24 11:42:04

Local clock offset: 0.58 ms

Remote clock offset: 4.023 ms

# Below is generated by plot.py at 2018-05-24 12:10:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 1155.975 ms

Loss rate: 71.84%

-- Flow 1:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 1160.081 ms

Loss rate: 73.99%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 1163.340 ms

Loss rate: 64.26%

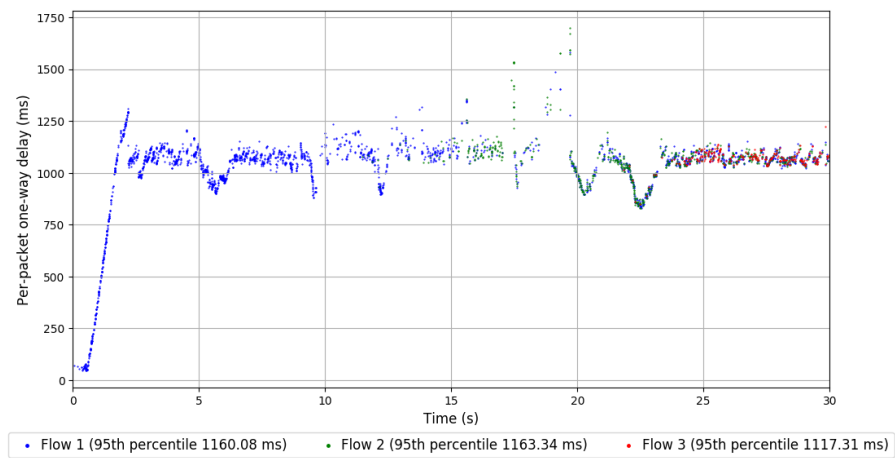
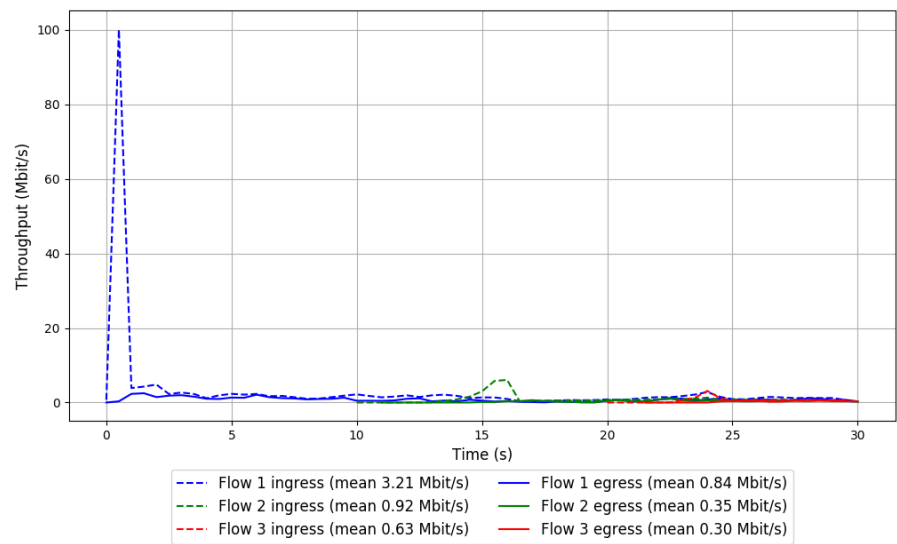
-- Flow 3:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1117.313 ms

Loss rate: 60.90%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-24 11:59:24

End at: 2018-05-24 11:59:54

Local clock offset: -2.807 ms

Remote clock offset: 3.936 ms

# Below is generated by plot.py at 2018-05-24 12:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.06 Mbit/s

95th percentile per-packet one-way delay: 1096.138 ms

Loss rate: 37.30%

-- Flow 1:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 1093.421 ms

Loss rate: 37.83%

-- Flow 2:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 1104.234 ms

Loss rate: 35.75%

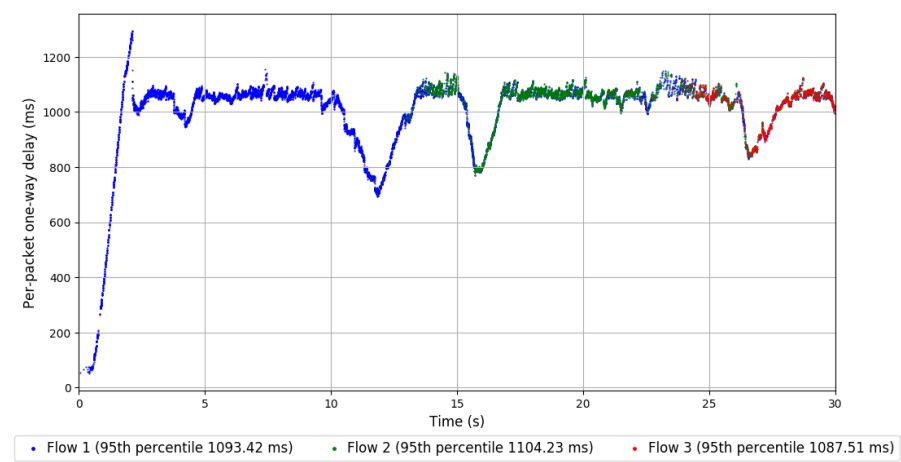
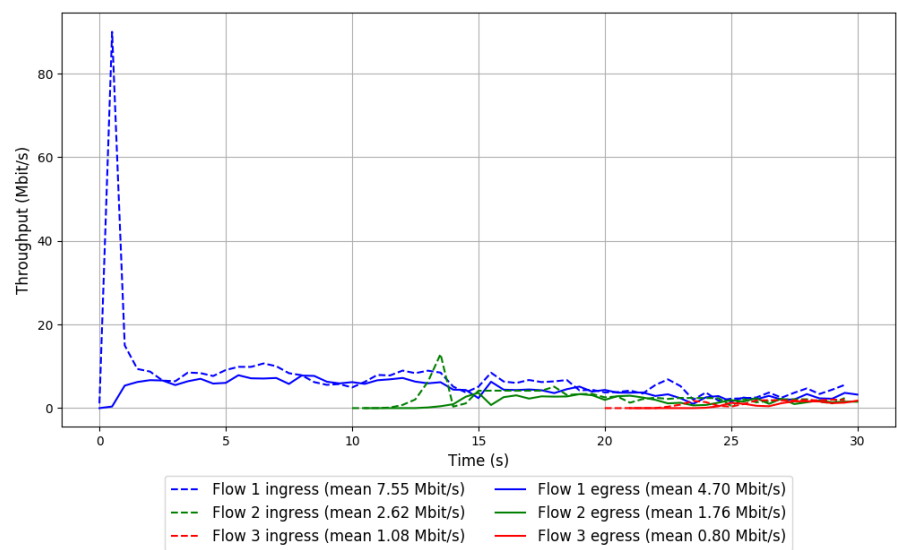
-- Flow 3:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 1087.514 ms

Loss rate: 33.60%

Run 10: Report of FillP — Data Link



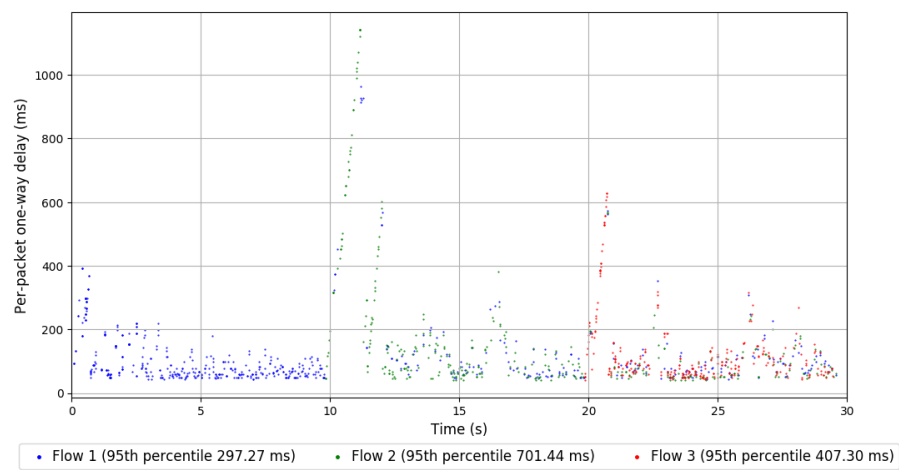
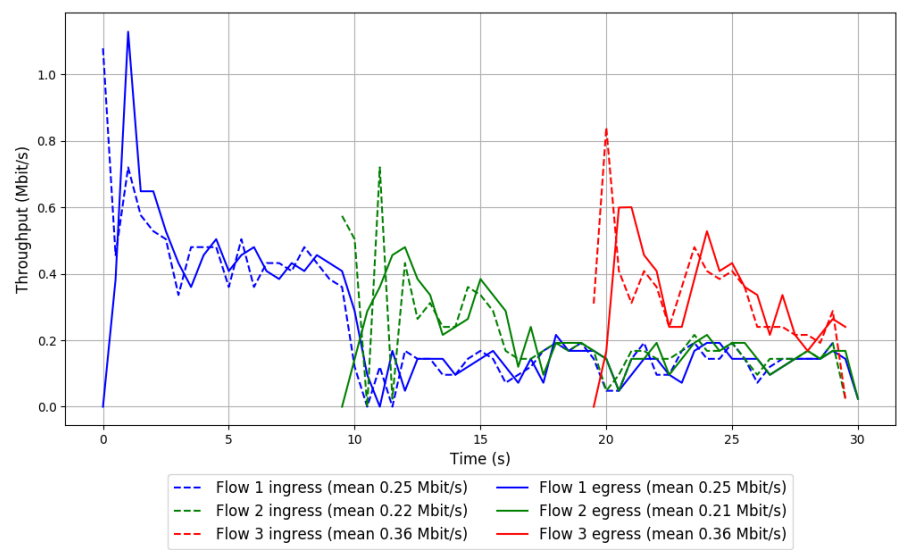
```
Run 1: Statistics of Indigo

Start at: 2018-05-24 09:19:21
End at: 2018-05-24 09:19:51
Local clock offset: 0.672 ms
Remote clock offset: 4.687 ms

# Below is generated by plot.py at 2018-05-24 12:11:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 447.134 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 297.275 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 701.437 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 407.296 ms
Loss rate: 1.73%
```



Run 1: Report of Indigo — Data Link

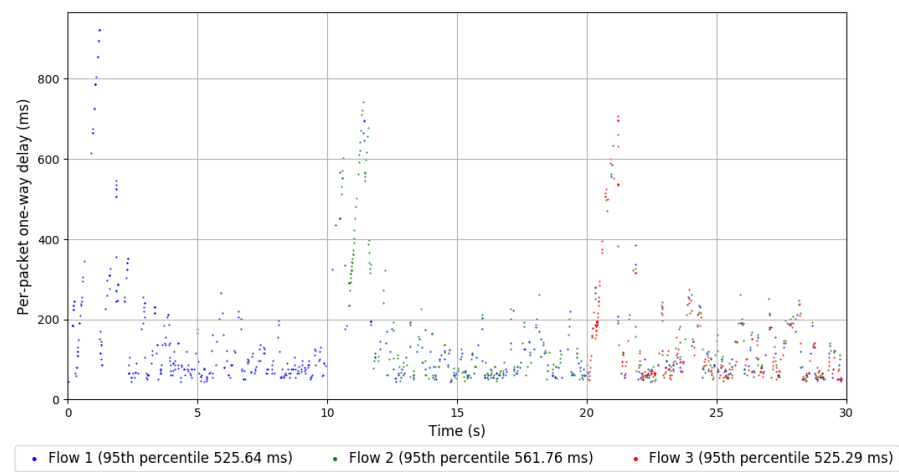
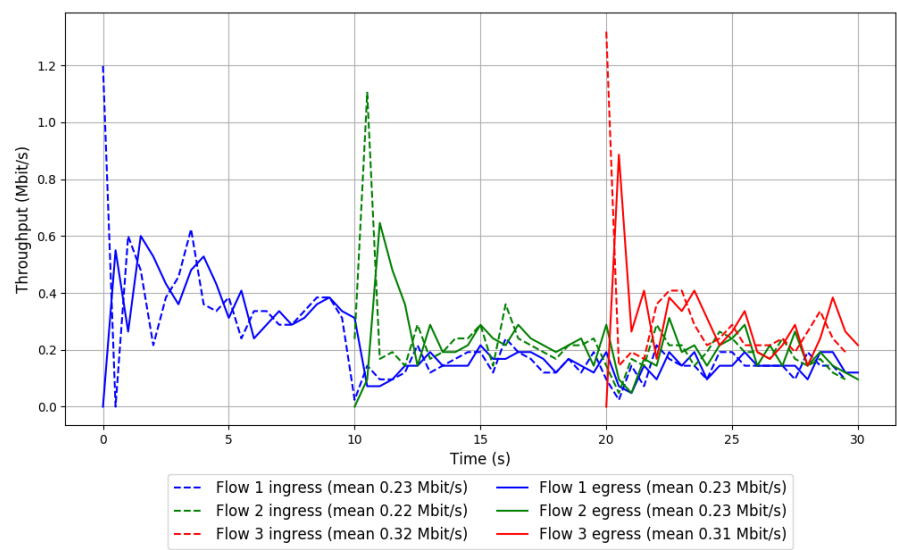


Run 2: Statistics of Indigo

Start at: 2018-05-24 09:36:54  
End at: 2018-05-24 09:37:24  
Local clock offset: -2.423 ms  
Remote clock offset: 14.003 ms

# Below is generated by plot.py at 2018-05-24 12:11:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.48 Mbit/s  
95th percentile per-packet one-way delay: 536.679 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 525.645 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 561.764 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 0.31 Mbit/s  
95th percentile per-packet one-way delay: 525.290 ms  
Loss rate: 0.78%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-24 09:54:31

End at: 2018-05-24 09:55:01

Local clock offset: 0.283 ms

Remote clock offset: 4.102 ms

# Below is generated by plot.py at 2018-05-24 12:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 200.359 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 240.594 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 179.458 ms

Loss rate: 0.12%

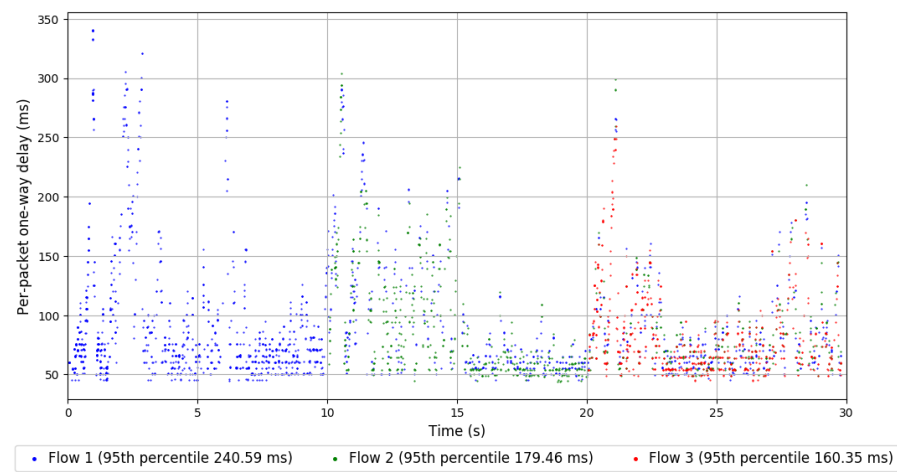
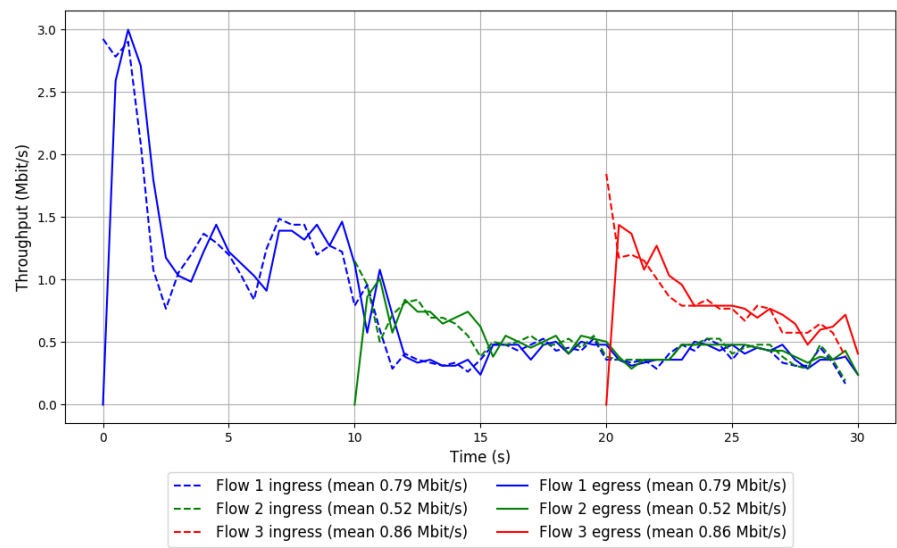
-- Flow 3:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 160.349 ms

Loss rate: 0.14%

Run 3: Report of Indigo — Data Link

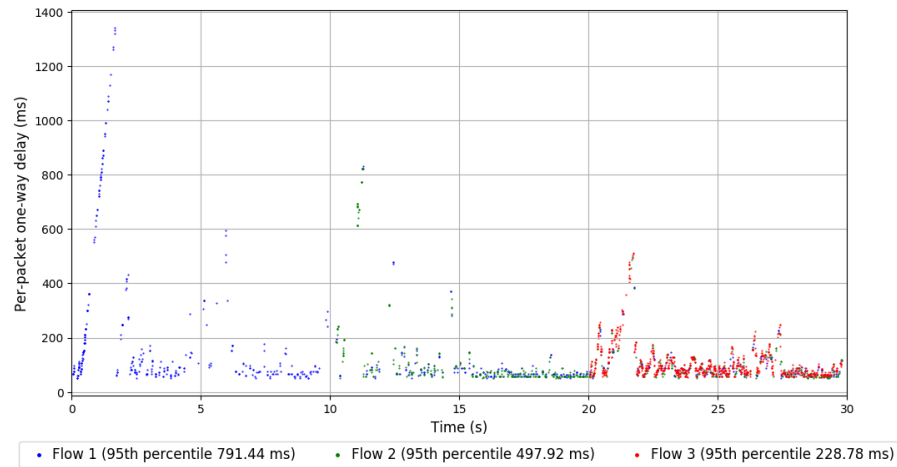
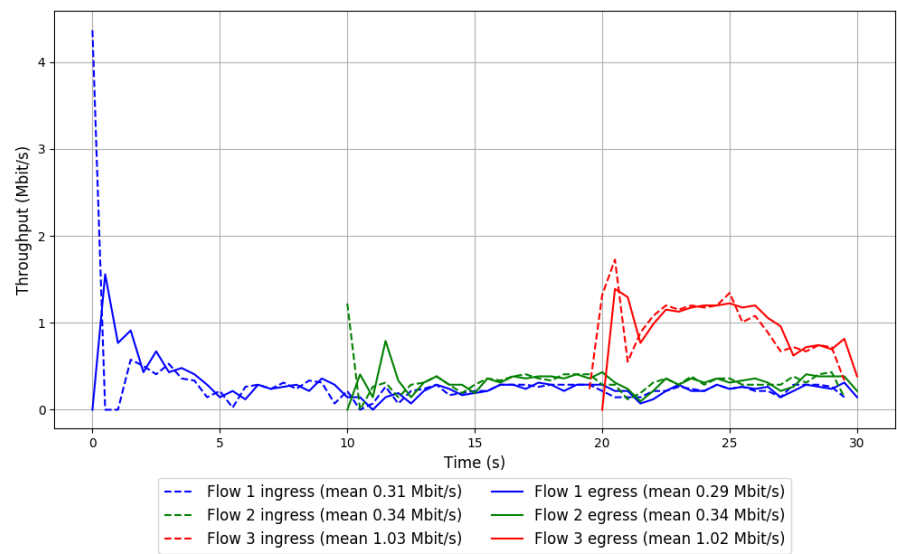


Run 4: Statistics of Indigo

Start at: 2018-05-24 10:12:19  
End at: 2018-05-24 10:12:49  
Local clock offset: -0.687 ms  
Remote clock offset: 1.549 ms

```
# Below is generated by plot.py at 2018-05-24 12:11:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 419.158 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 791.438 ms
Loss rate: 5.74%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 497.921 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 228.780 ms
Loss rate: 0.12%
```

Run 4: Report of Indigo — Data Link



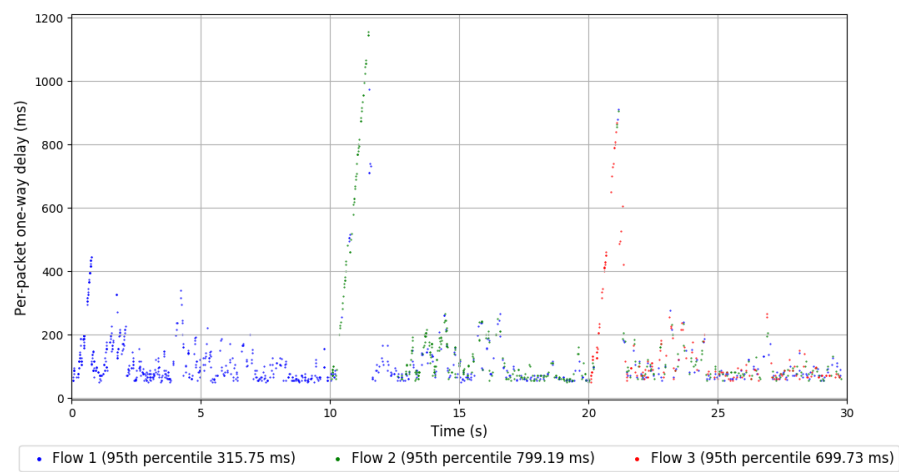
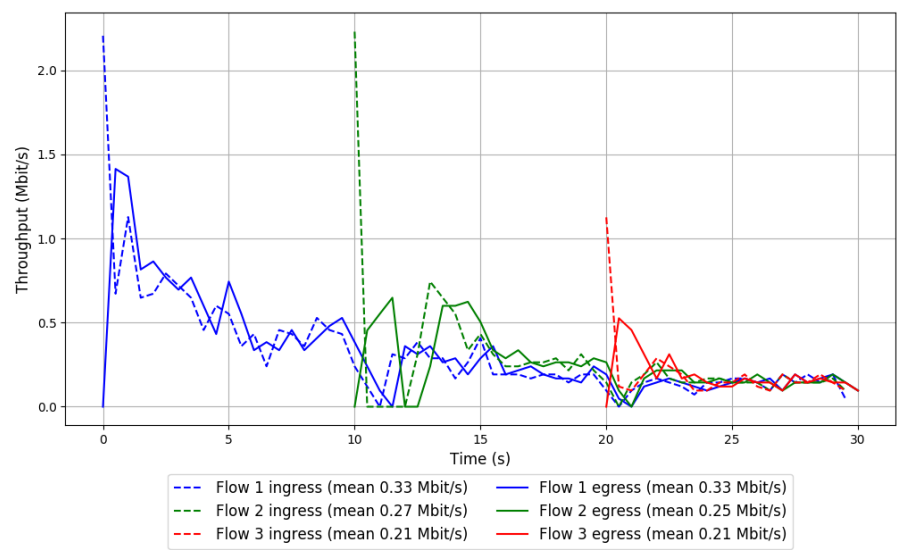
Run 5: Statistics of Indigo

Start at: 2018-05-24 10:29:51  
End at: 2018-05-24 10:30:21  
Local clock offset: 0.877 ms  
Remote clock offset: -3.306 ms

# Below is generated by plot.py at 2018-05-24 12:11:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 450.134 ms  
Loss rate: 2.09%  
-- Flow 1:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 315.754 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 799.189 ms  
Loss rate: 5.68%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 699.729 ms  
Loss rate: 2.37%



Run 5: Report of Indigo — Data Link

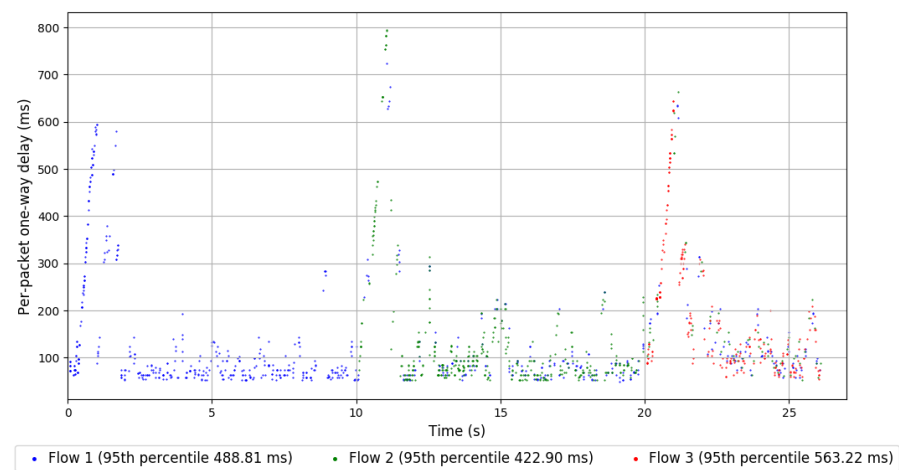
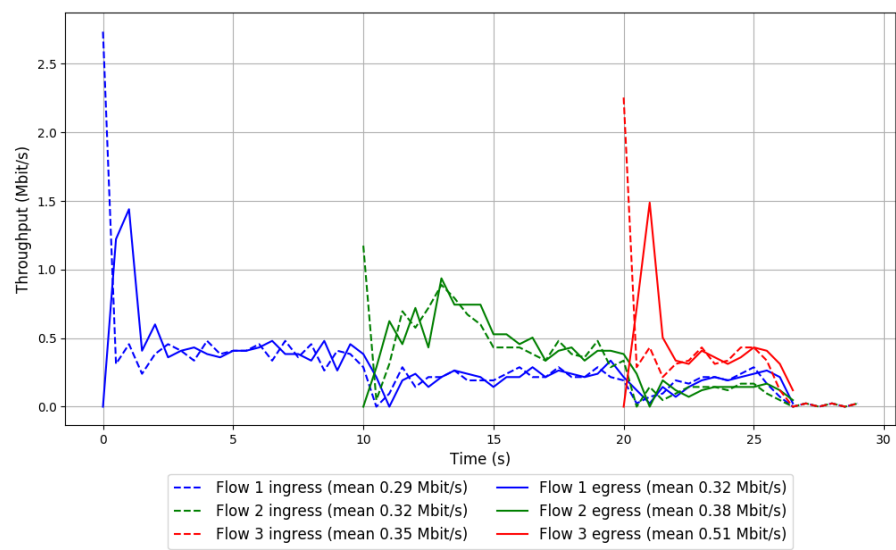


Run 6: Statistics of Indigo

Start at: 2018-05-24 10:47:29  
End at: 2018-05-24 10:47:59  
Local clock offset: -2.861 ms  
Remote clock offset: -5.821 ms

# Below is generated by plot.py at 2018-05-24 12:11:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 507.888 ms  
Loss rate: 1.71%  
-- Flow 1:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 488.805 ms  
Loss rate: 1.30%  
-- Flow 2:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 422.901 ms  
Loss rate: 1.18%  
-- Flow 3:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 563.218 ms  
Loss rate: 3.80%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-24 11:05:01

End at: 2018-05-24 11:05:31

Local clock offset: 0.711 ms

Remote clock offset: 2.396 ms

# Below is generated by plot.py at 2018-05-24 12:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 218.173 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 215.301 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 219.209 ms

Loss rate: 0.16%

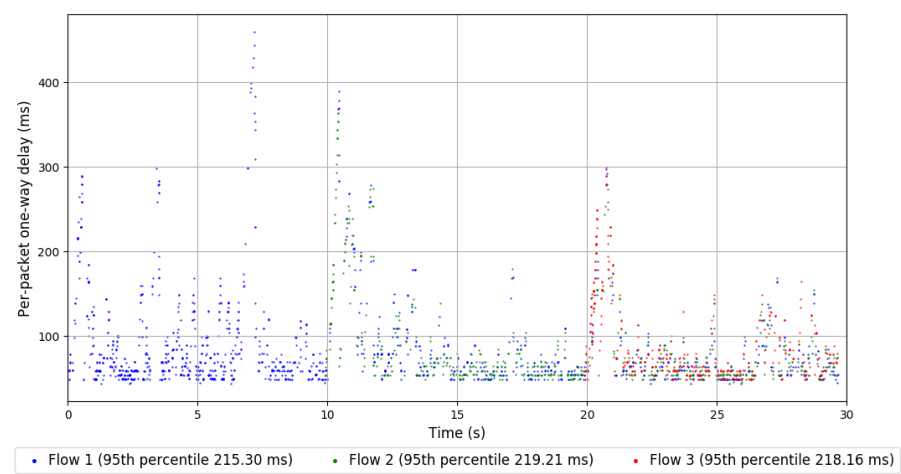
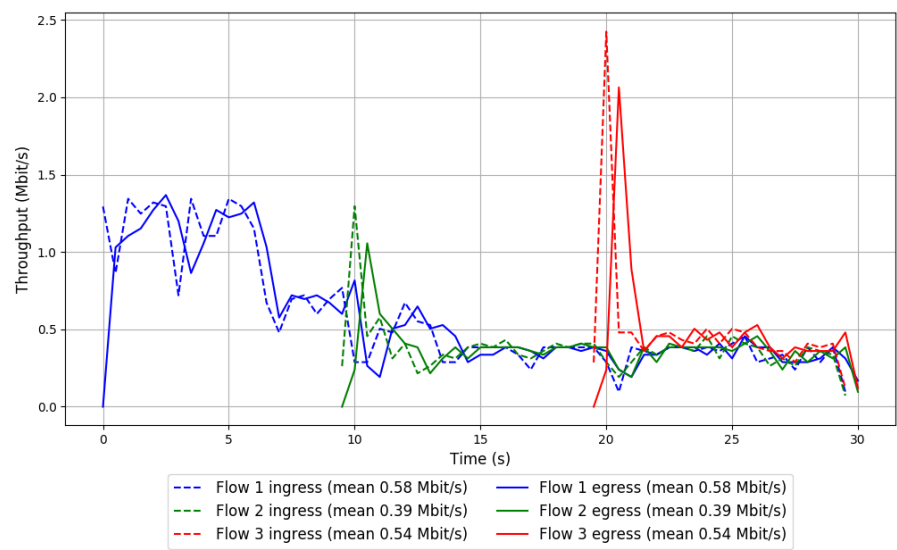
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 218.157 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-24 11:22:43

End at: 2018-05-24 11:23:13

Local clock offset: -0.283 ms

Remote clock offset: 7.361 ms

# Below is generated by plot.py at 2018-05-24 12:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 391.481 ms

Loss rate: 4.01%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 265.862 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 305.908 ms

Loss rate: 0.96%

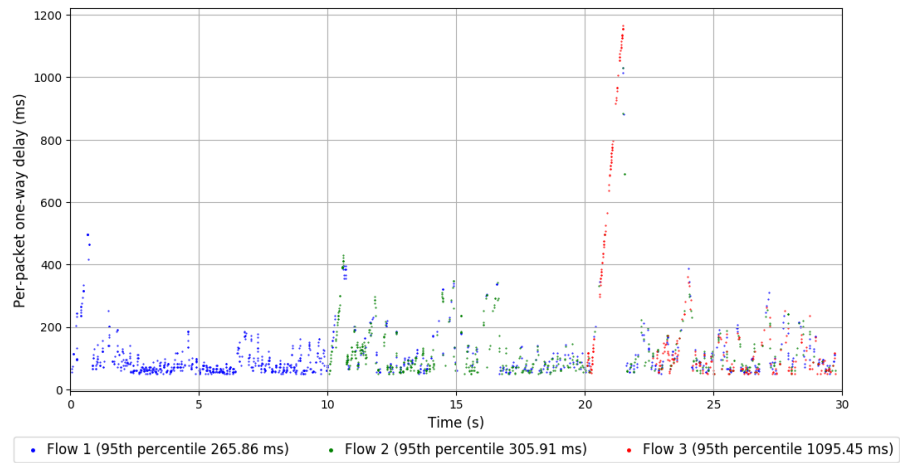
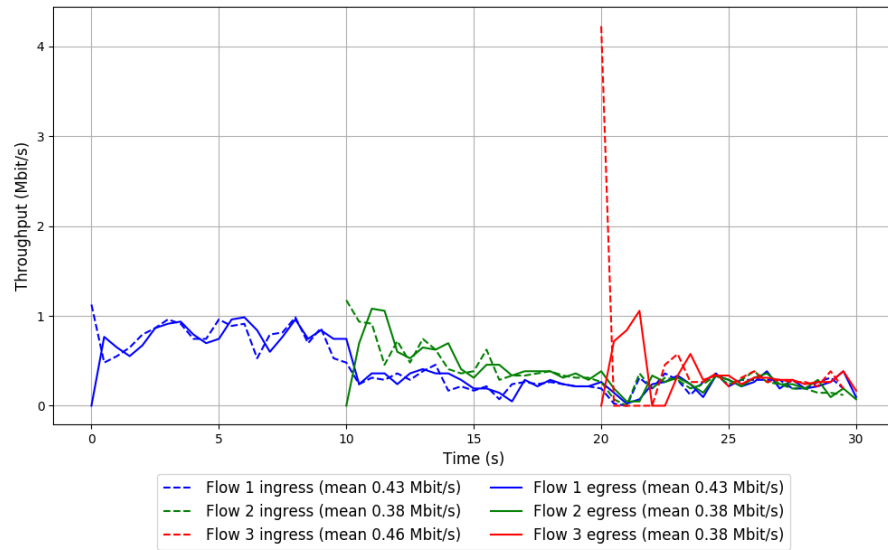
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 1095.451 ms

Loss rate: 18.82%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-24 11:40:28

End at: 2018-05-24 11:40:58

Local clock offset: 0.28 ms

Remote clock offset: 5.077 ms

# Below is generated by plot.py at 2018-05-24 12:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 193.060 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 193.060 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 211.865 ms

Loss rate: 0.45%

-- Flow 3:

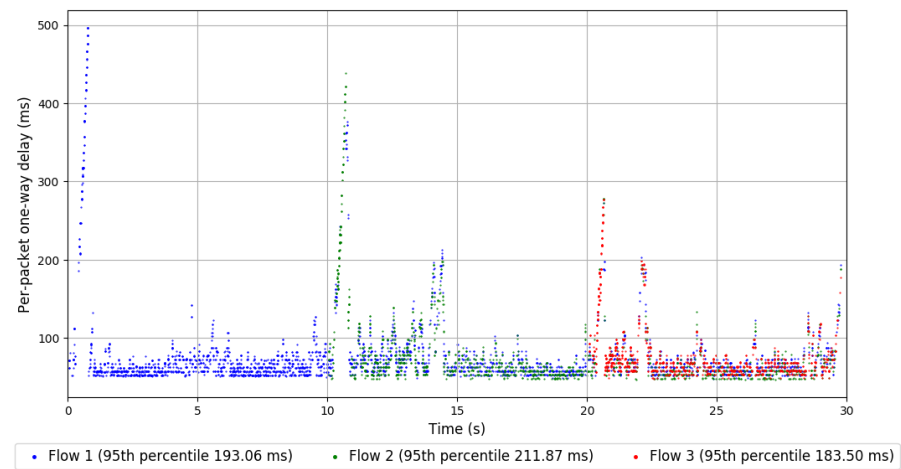
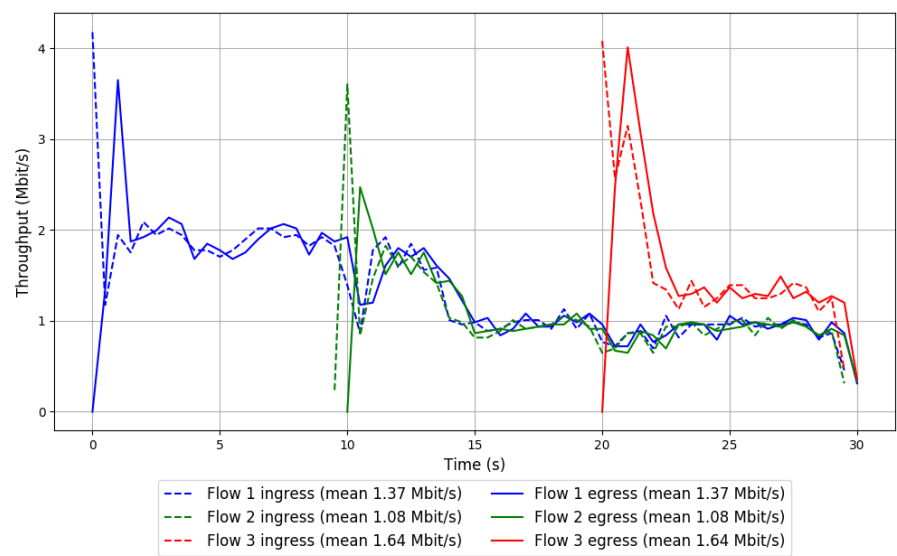
Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 183.502 ms

Loss rate: 0.90%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-24 11:58:13

End at: 2018-05-24 11:58:43

Local clock offset: 2.337 ms

Remote clock offset: 3.278 ms

# Below is generated by plot.py at 2018-05-24 12:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 174.664 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 139.959 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 180.098 ms

Loss rate: 0.07%

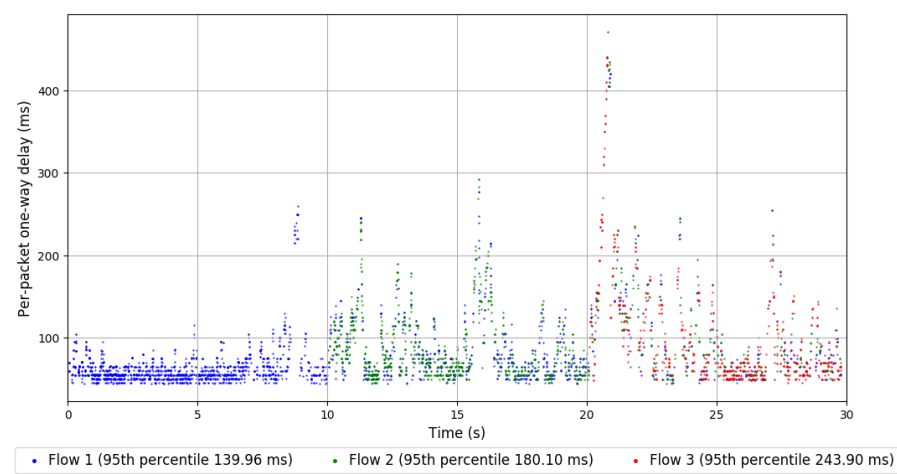
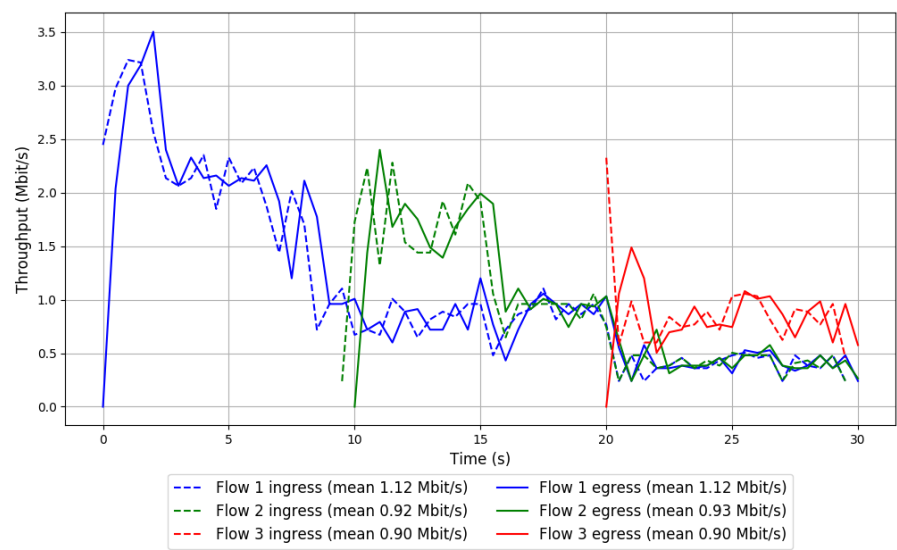
-- Flow 3:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 243.899 ms

Loss rate: 0.55%

Run 10: Report of Indigo — Data Link

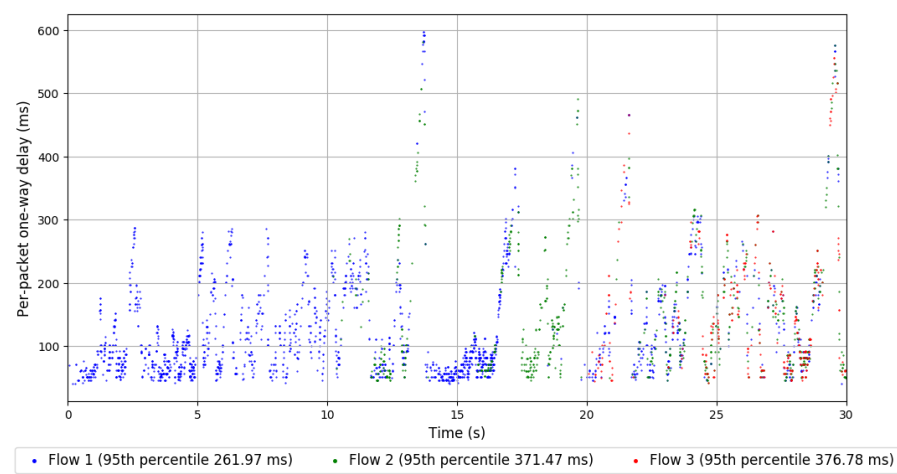
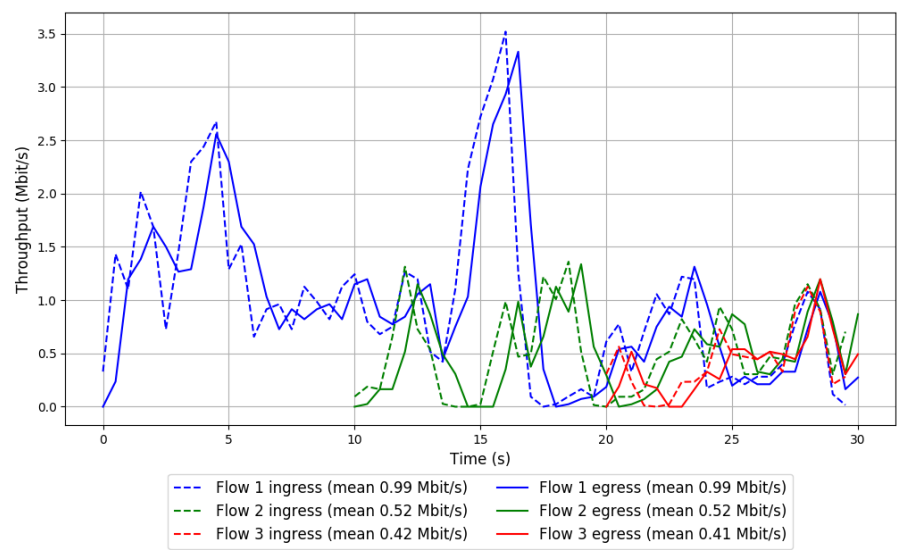


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-24 09:24:48
End at: 2018-05-24 09:25:18
Local clock offset: 0.068 ms
Remote clock offset: 8.977 ms

# Below is generated by plot.py at 2018-05-24 12:11:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 296.010 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 261.973 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 371.469 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 376.780 ms
Loss rate: 1.41%
```

Run 1: Report of LEDBAT — Data Link

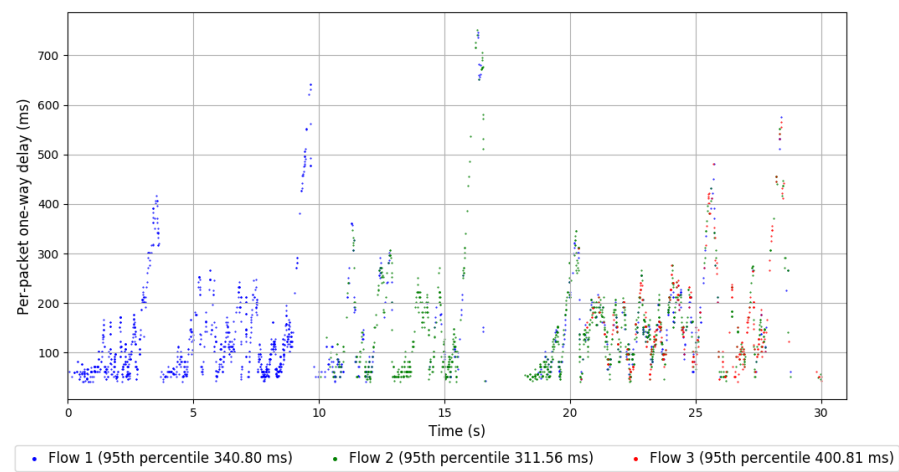
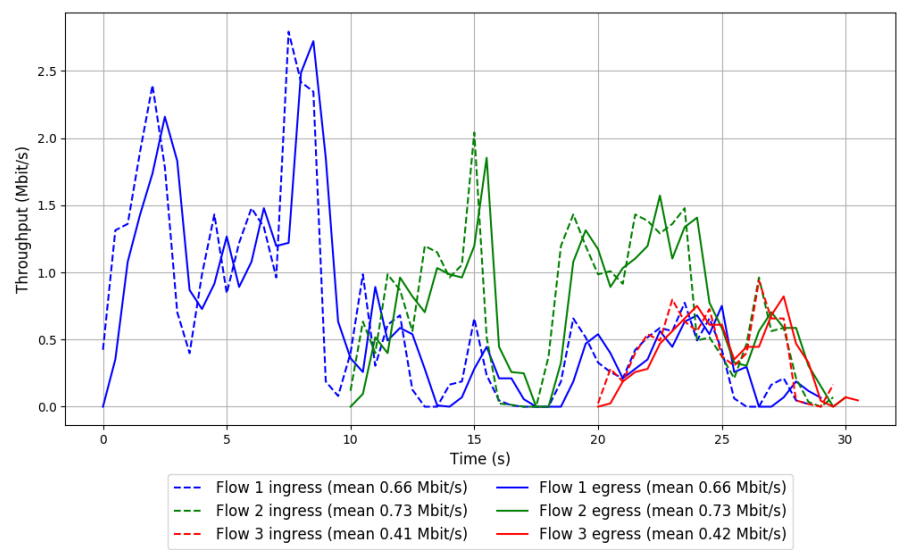


Run 2: Statistics of LEDBAT

Start at: 2018-05-24 09:42:22  
End at: 2018-05-24 09:42:52  
Local clock offset: 0.126 ms  
Remote clock offset: 15.961 ms

# Below is generated by plot.py at 2018-05-24 12:11:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.25 Mbit/s  
95th percentile per-packet one-way delay: 335.423 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 340.797 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 0.73 Mbit/s  
95th percentile per-packet one-way delay: 311.563 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 400.814 ms  
Loss rate: 1.14%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-24 10:00:01

End at: 2018-05-24 10:00:31

Local clock offset: 1.799 ms

Remote clock offset: 2.824 ms

# Below is generated by plot.py at 2018-05-24 12:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 271.116 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 256.043 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 290.824 ms

Loss rate: 0.53%

-- Flow 3:

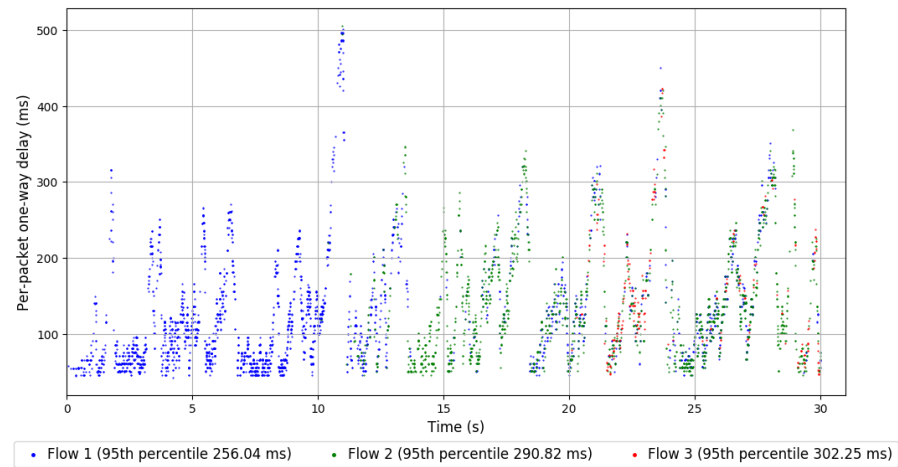
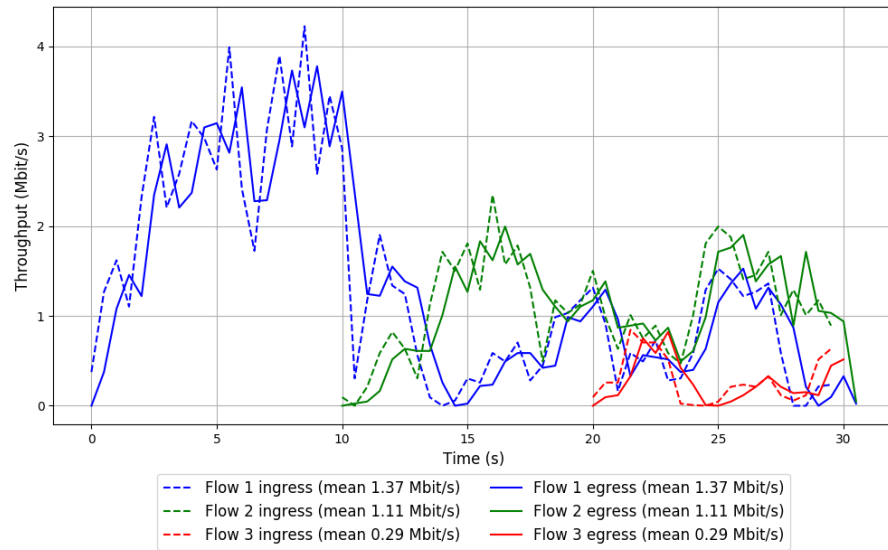
Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 302.249 ms

Loss rate: 3.99%



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

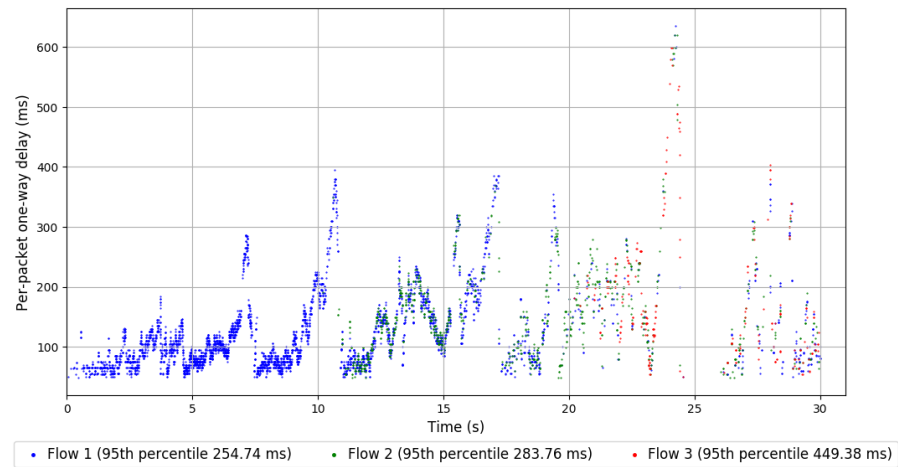
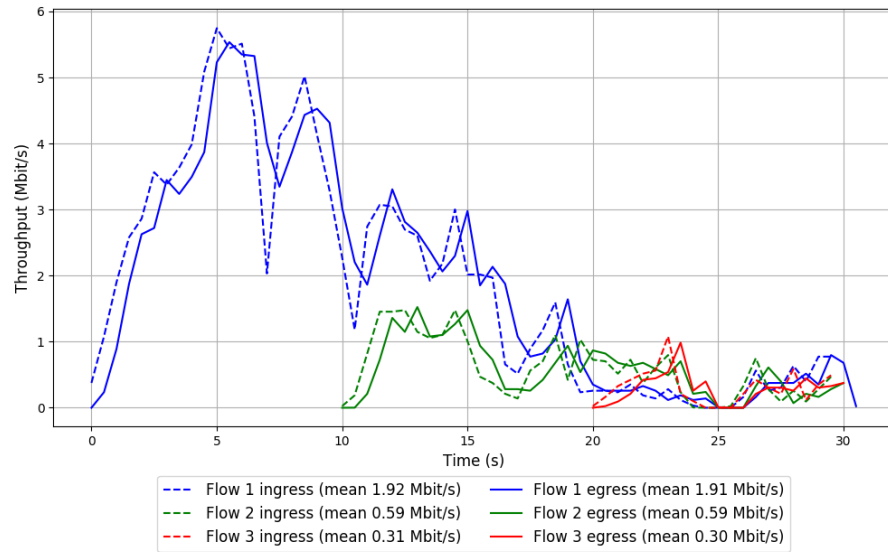


Run 4: Statistics of LEDBAT

Start at: 2018-05-24 10:17:49  
End at: 2018-05-24 10:18:19  
Local clock offset: -0.253 ms  
Remote clock offset: 1.385 ms

```
# Below is generated by plot.py at 2018-05-24 12:11:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 269.658 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 254.736 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 283.759 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 449.377 ms
Loss rate: 3.07%
```

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



Run 5: Statistics of LEDBAT

Start at: 2018-05-24 10:35:20

End at: 2018-05-24 10:35:50

Local clock offset: 2.108 ms

Remote clock offset: -4.02 ms

# Below is generated by plot.py at 2018-05-24 12:11:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 321.384 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 376.486 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 301.880 ms

Loss rate: 1.35%

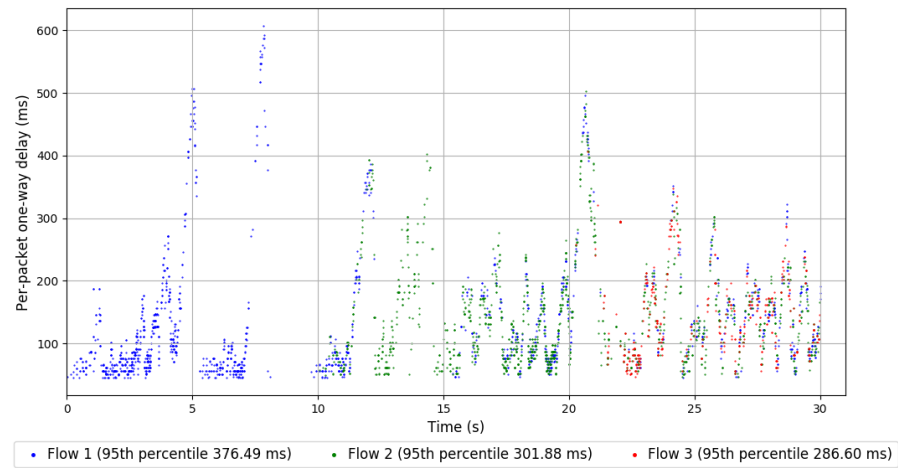
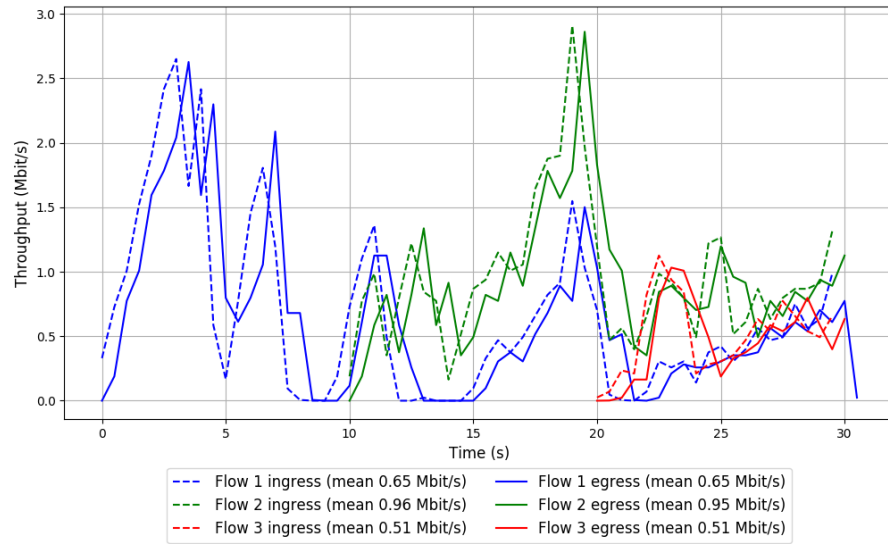
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 286.600 ms

Loss rate: 2.53%

## Run 5: Report of LEDBAT — Data Link

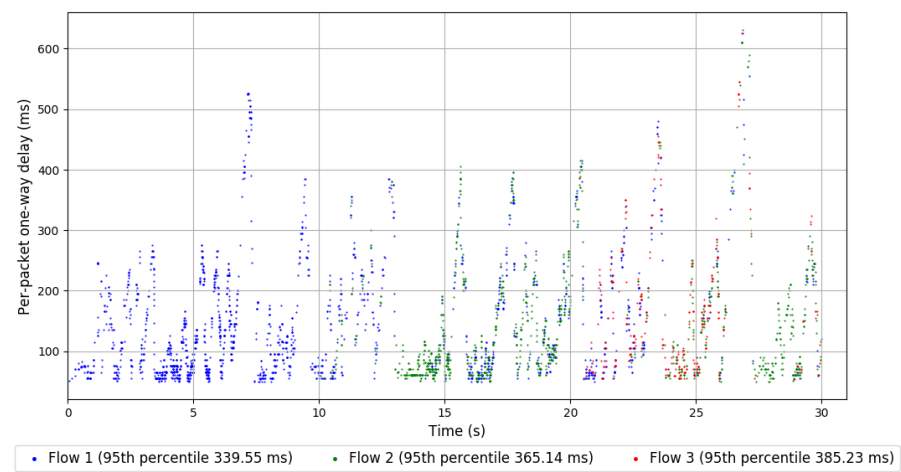
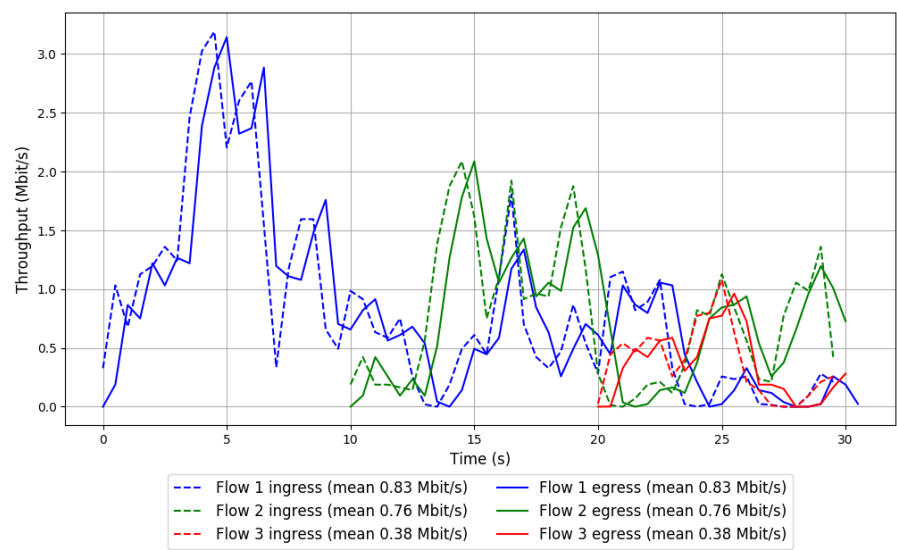


Run 6: Statistics of LEDBAT

Start at: 2018-05-24 10:53:00  
End at: 2018-05-24 10:53:30  
Local clock offset: -2.981 ms  
Remote clock offset: -4.624 ms

# Below is generated by plot.py at 2018-05-24 12:11:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 354.662 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 0.83 Mbit/s  
95th percentile per-packet one-way delay: 339.548 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 0.76 Mbit/s  
95th percentile per-packet one-way delay: 365.140 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 385.226 ms  
Loss rate: 2.19%

Run 6: Report of LEDBAT — Data Link



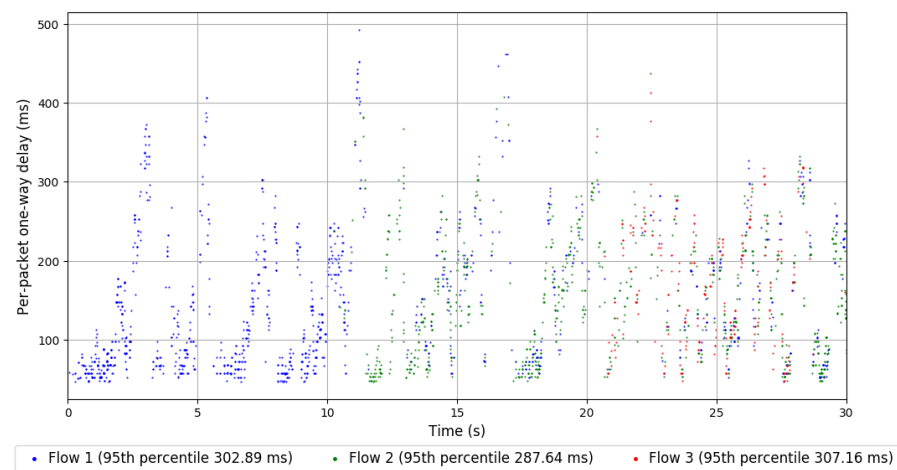
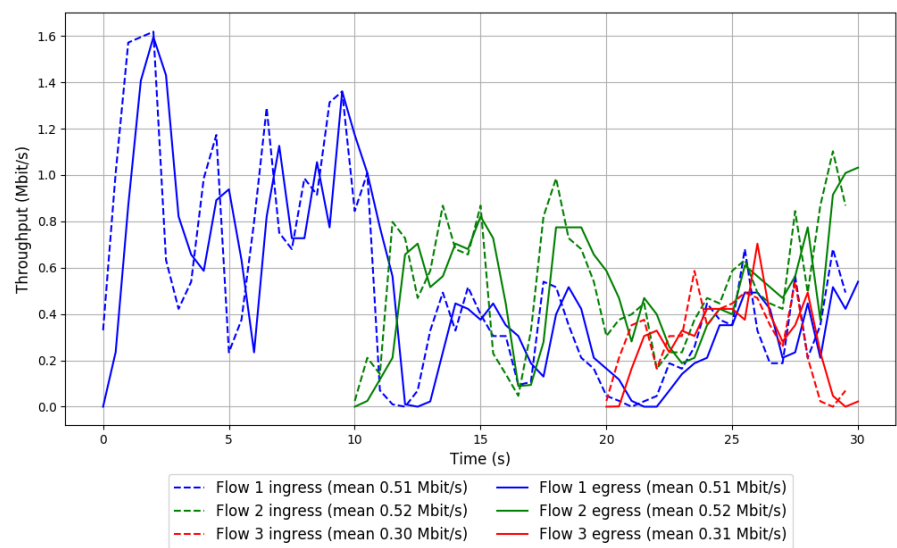
Run 7: Statistics of LEDBAT

Start at: 2018-05-24 11:10:30  
End at: 2018-05-24 11:11:00  
Local clock offset: 1.003 ms  
Remote clock offset: 5.831 ms

# Below is generated by plot.py at 2018-05-24 12:11:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.95 Mbit/s  
95th percentile per-packet one-way delay: 297.740 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 302.888 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 287.637 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 0.31 Mbit/s  
95th percentile per-packet one-way delay: 307.161 ms  
Loss rate: 1.97%



Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-24 11:28:13

End at: 2018-05-24 11:28:43

Local clock offset: 3.388 ms

Remote clock offset: 7.412 ms

# Below is generated by plot.py at 2018-05-24 12:11:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 216.265 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 216.128 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 216.453 ms

Loss rate: 0.46%

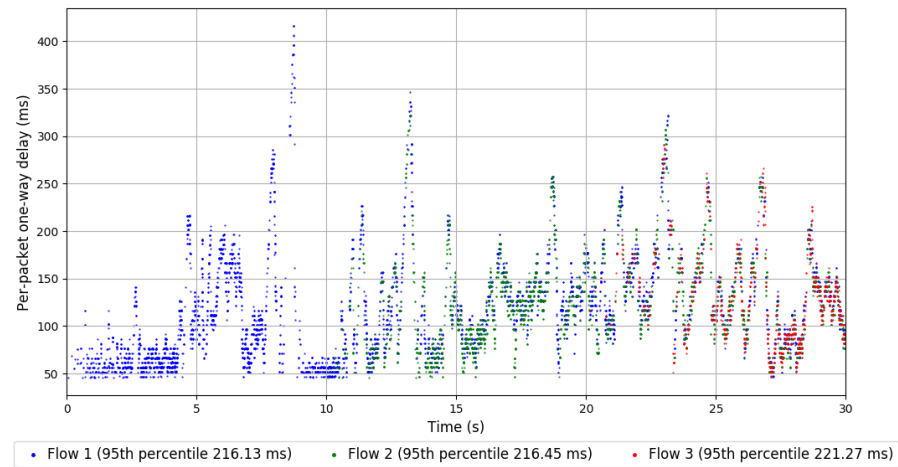
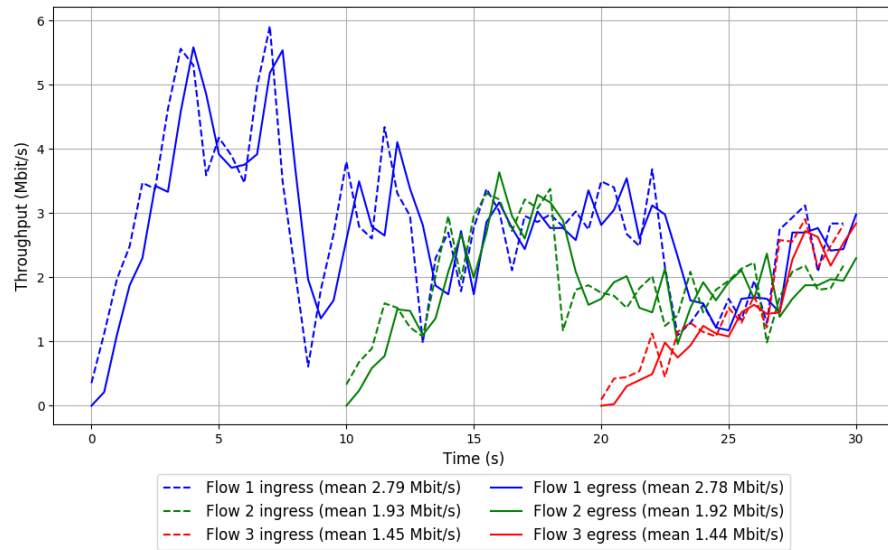
-- Flow 3:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 221.274 ms

Loss rate: 1.94%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-24 11:46:08

End at: 2018-05-24 11:46:38

Local clock offset: 0.695 ms

Remote clock offset: 4.423 ms

# Below is generated by plot.py at 2018-05-24 12:11:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 258.822 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 245.446 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 294.087 ms

Loss rate: 1.59%

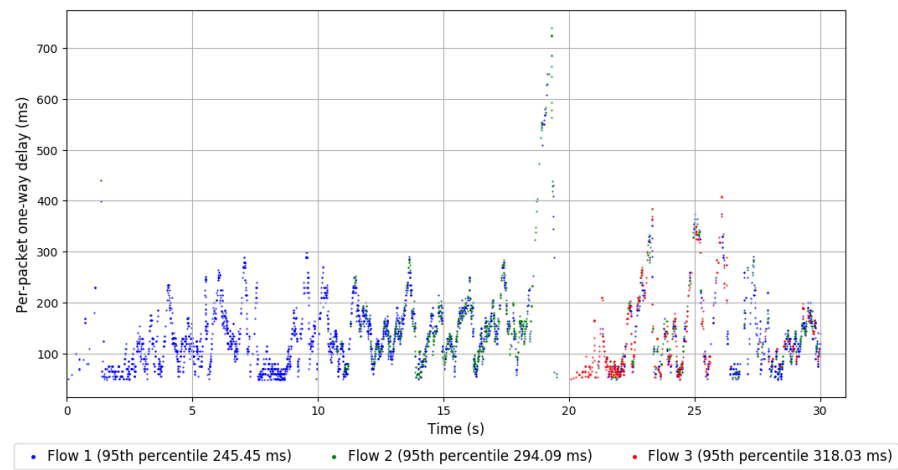
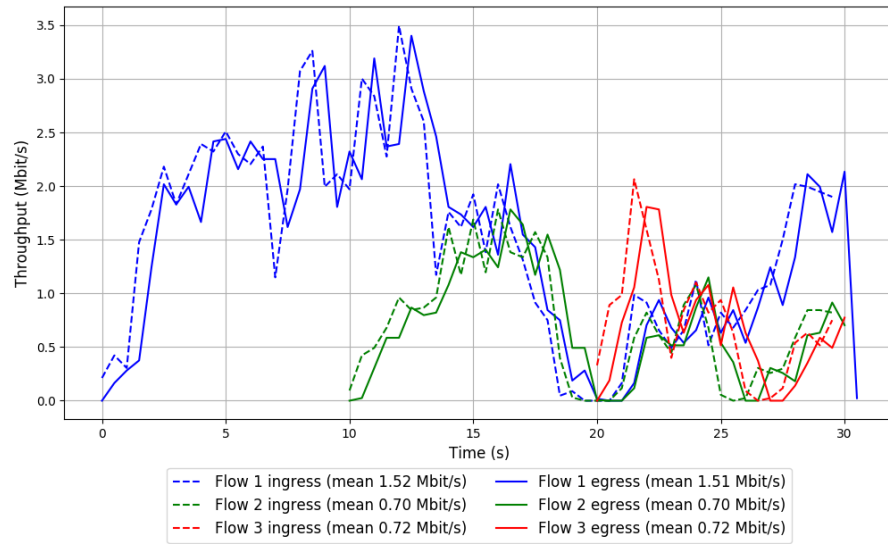
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 318.031 ms

Loss rate: 1.95%

## Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-24 12:03:50

End at: 2018-05-24 12:04:20

Local clock offset: -2.709 ms

Remote clock offset: 4.083 ms

# Below is generated by plot.py at 2018-05-24 12:11:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 282.667 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 283.144 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 282.667 ms

Loss rate: 1.85%

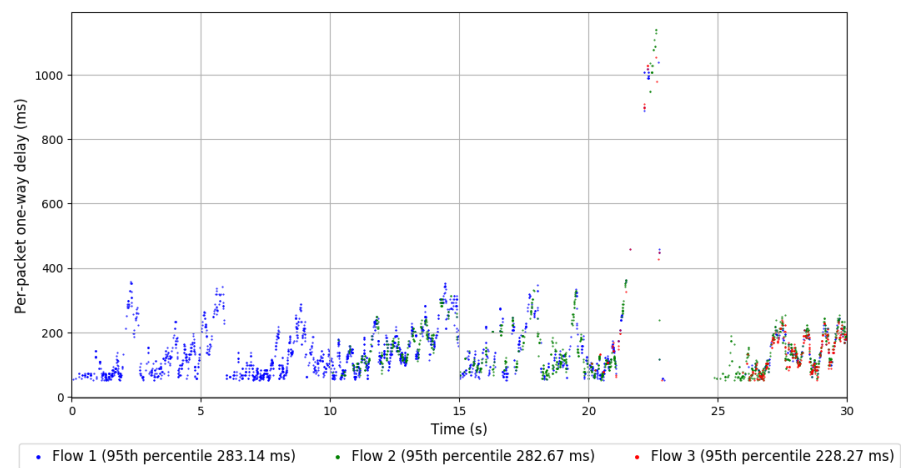
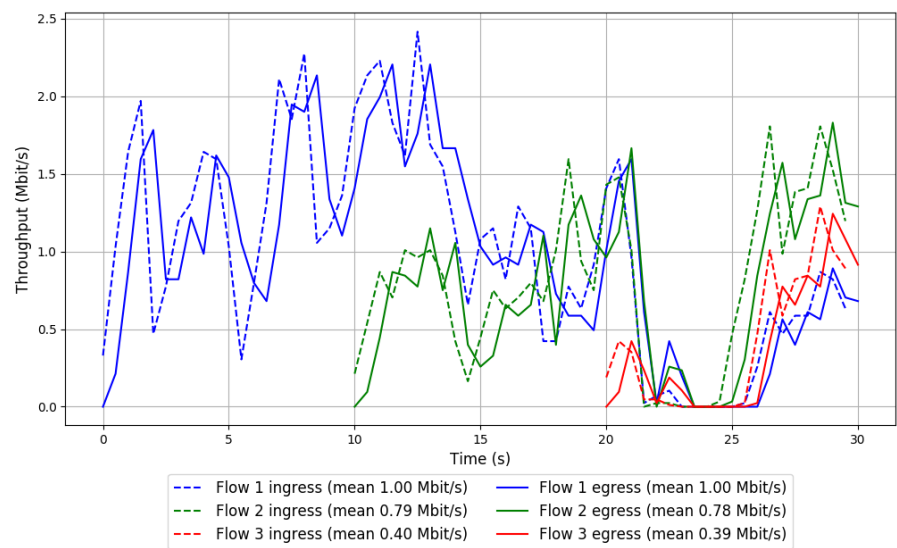
-- Flow 3:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 228.266 ms

Loss rate: 2.64%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-24 09:15:59

End at: 2018-05-24 09:16:29

Local clock offset: 0.325 ms

Remote clock offset: 1.929 ms

# Below is generated by plot.py at 2018-05-24 12:11:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 1181.242 ms

Loss rate: 96.91%

-- Flow 1:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 1167.280 ms

Loss rate: 67.06%

-- Flow 2:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 1202.163 ms

Loss rate: 99.03%

-- Flow 3:

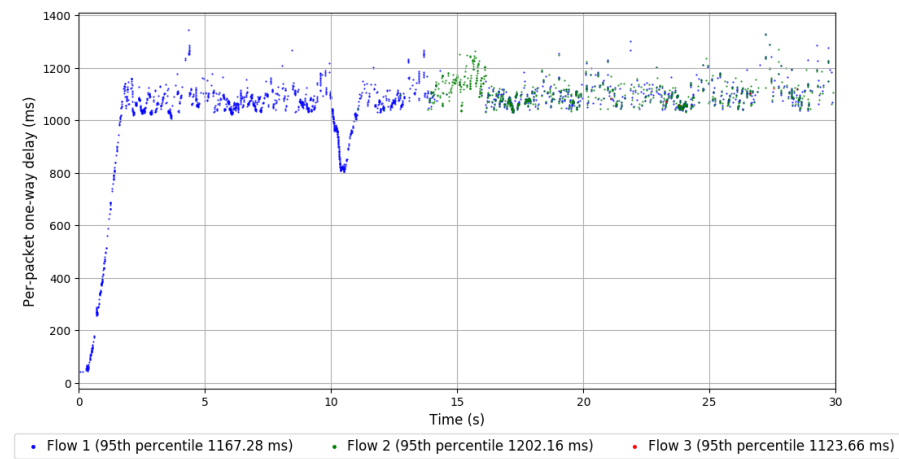
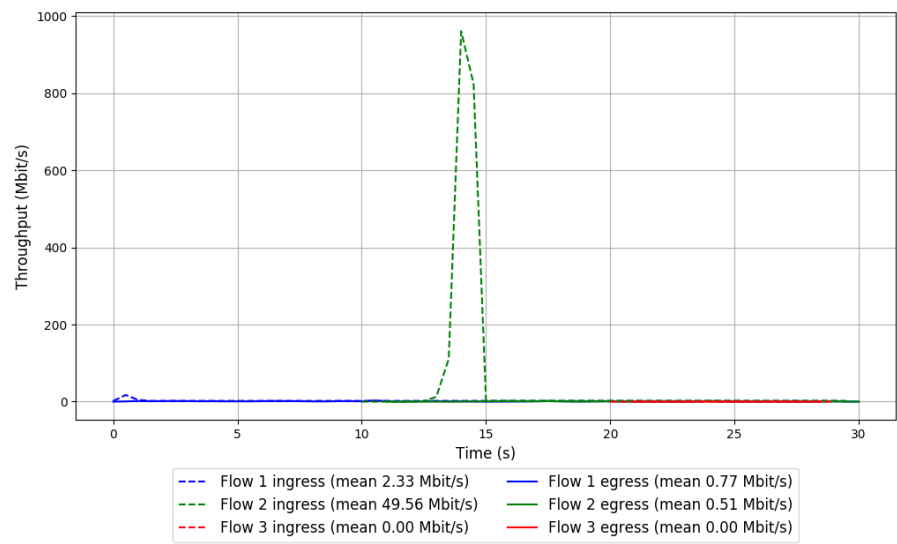
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1123.658 ms

Loss rate: 76.19%



Run 1: Report of PCC-Allegro — Data Link

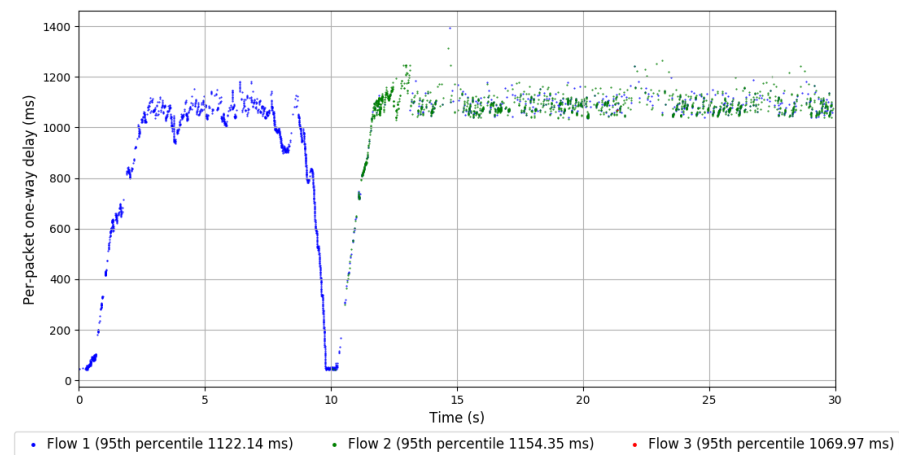
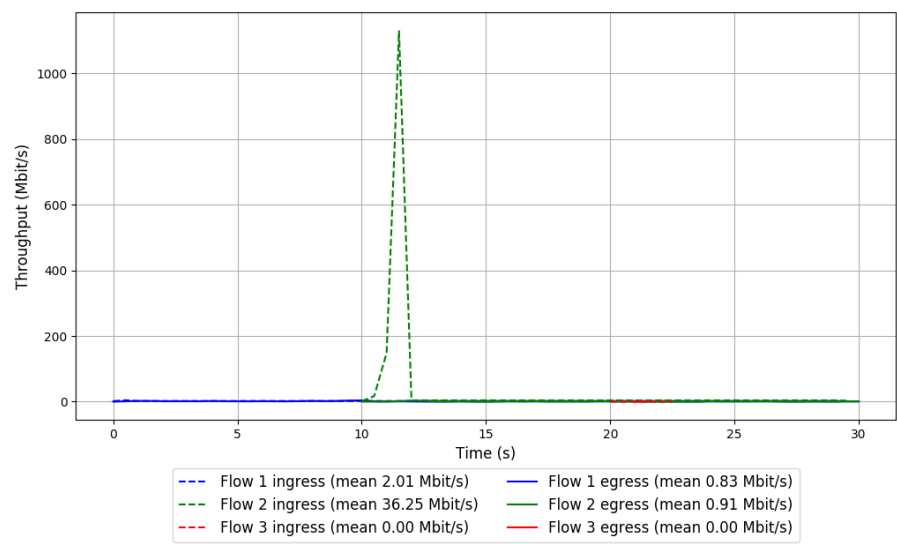


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 09:33:36  
End at: 2018-05-24 09:34:06  
Local clock offset: 0.287 ms  
Remote clock offset: 12.847 ms

```
# Below is generated by plot.py at 2018-05-24 12:11:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 1137.752 ms
Loss rate: 94.53%
-- Flow 1:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 1122.138 ms
Loss rate: 58.92%
-- Flow 2:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 1154.347 ms
Loss rate: 97.49%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1069.972 ms
Loss rate: 92.31%
```

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 09:51:13

End at: 2018-05-24 09:51:43

Local clock offset: -2.398 ms

Remote clock offset: 7.122 ms

# Below is generated by plot.py at 2018-05-24 12:11:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 1123.150 ms

Loss rate: 93.07%

-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 1091.674 ms

Loss rate: 30.64%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 1113.031 ms

Loss rate: 59.36%

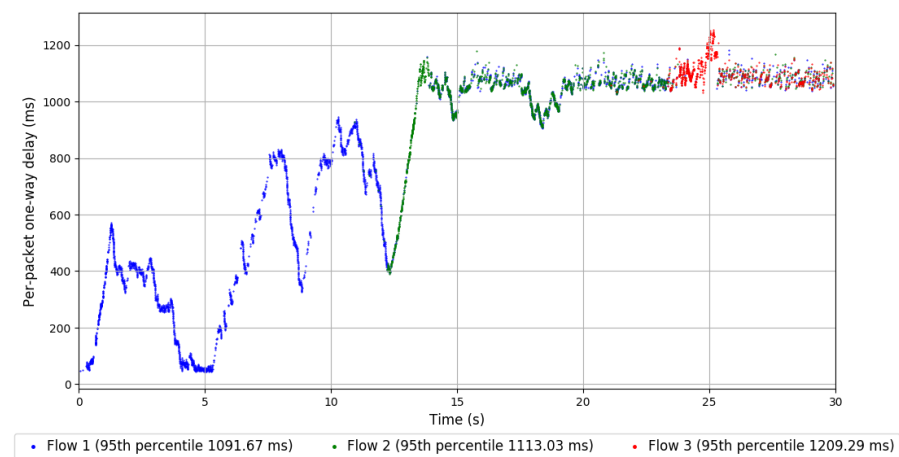
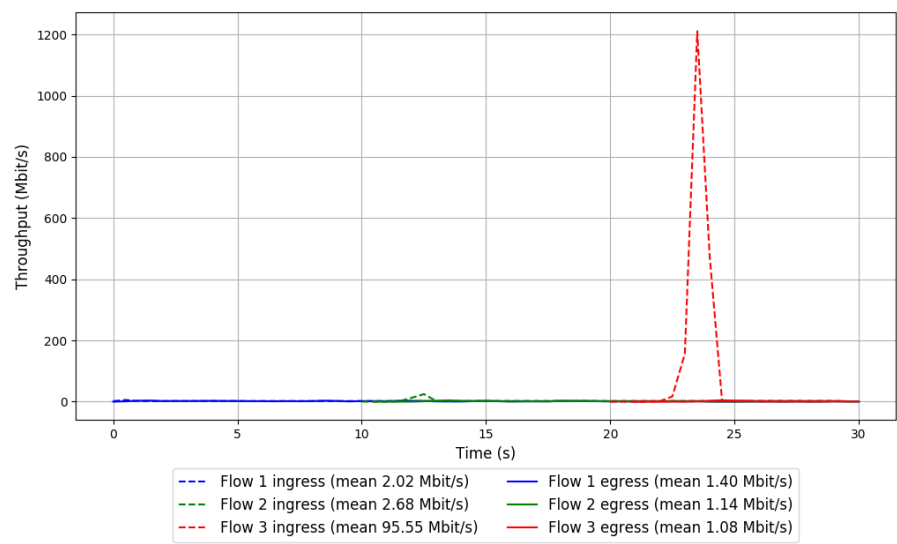
-- Flow 3:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 1209.286 ms

Loss rate: 98.99%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 10:08:56

End at: 2018-05-24 10:09:26

Local clock offset: 1.246 ms

Remote clock offset: 1.376 ms

# Below is generated by plot.py at 2018-05-24 12:11:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 1113.230 ms

Loss rate: 69.79%

-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 1073.035 ms

Loss rate: 18.56%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 1084.532 ms

Loss rate: 27.02%

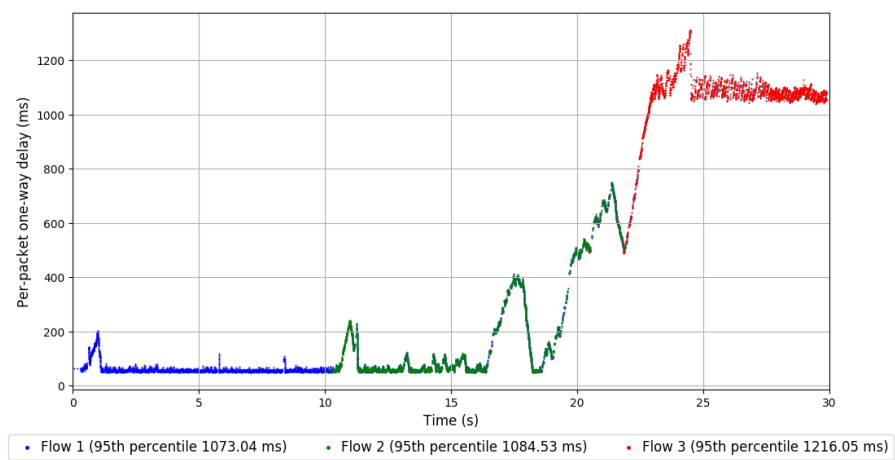
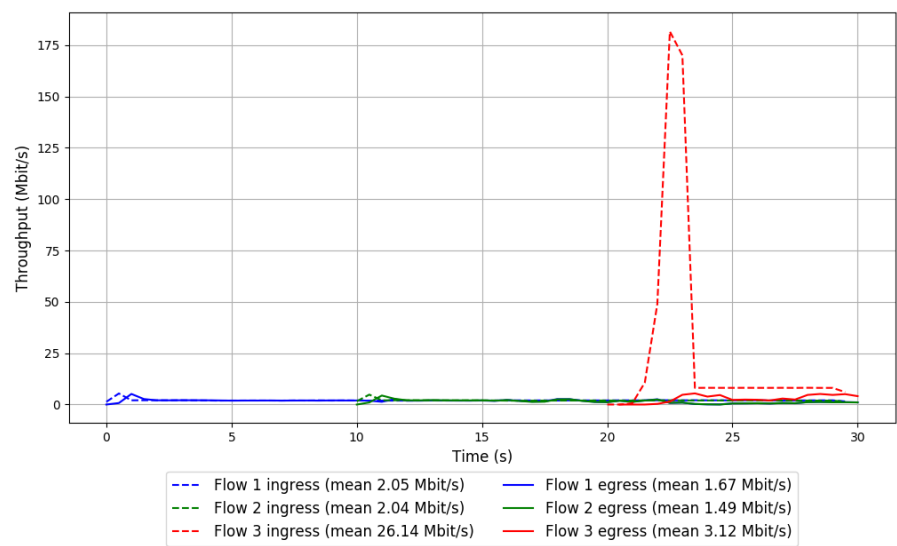
-- Flow 3:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 1216.045 ms

Loss rate: 88.66%

Run 4: Report of PCC-Allegro — Data Link



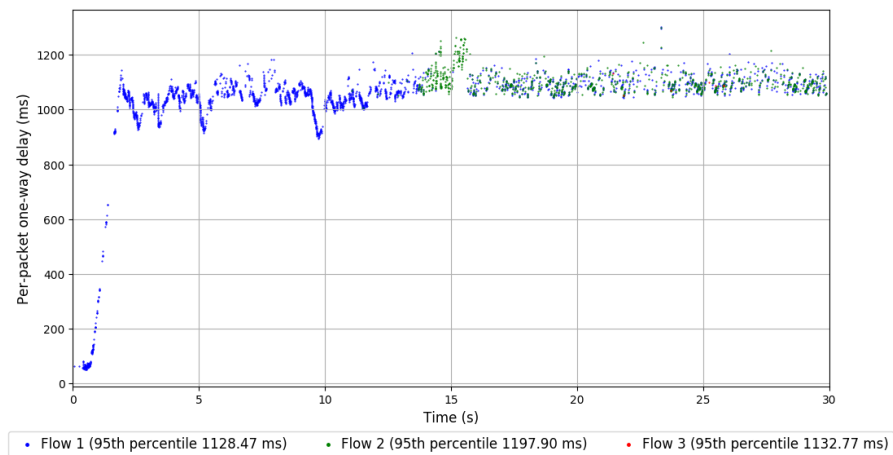
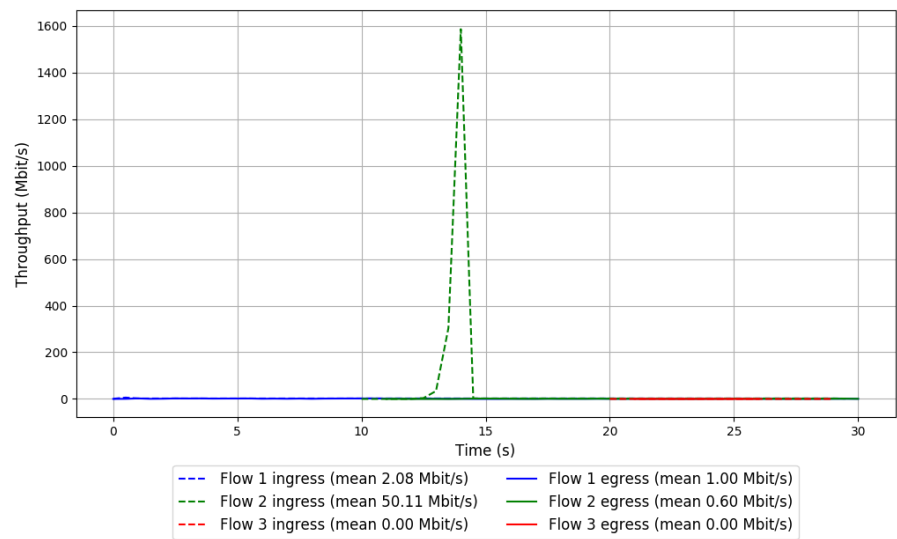
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 10:26:34  
End at: 2018-05-24 10:27:04  
Local clock offset: 0.486 ms  
Remote clock offset: -1.845 ms

# Below is generated by plot.py at 2018-05-24 12:11:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.37 Mbit/s  
95th percentile per-packet one-way delay: 1144.956 ms  
Loss rate: 96.12%  
-- Flow 1:  
Average throughput: 1.00 Mbit/s  
95th percentile per-packet one-way delay: 1128.467 ms  
Loss rate: 52.30%  
-- Flow 2:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 1197.898 ms  
Loss rate: 98.87%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1132.767 ms  
Loss rate: 71.65%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

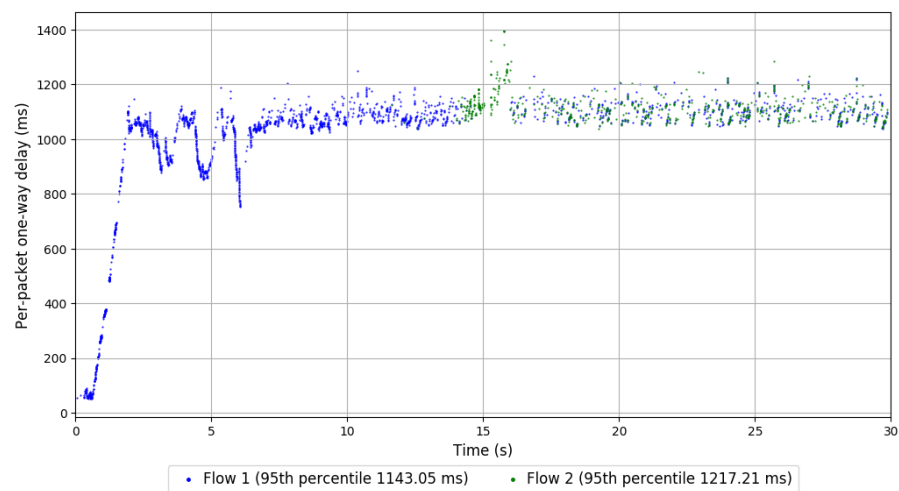
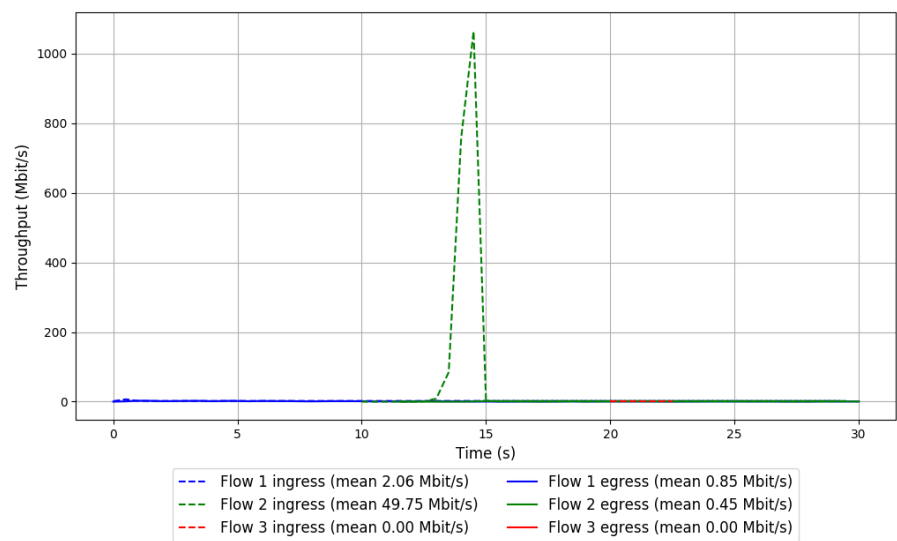
Start at: 2018-05-24 10:44:12

End at: 2018-05-24 10:44:42

Local clock offset: 0.212 ms

Remote clock offset: -4.798 ms

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 11:01:44

End at: 2018-05-24 11:02:14

Local clock offset: 0.242 ms

Remote clock offset: 2.82 ms

# Below is generated by plot.py at 2018-05-24 12:11:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 1138.165 ms

Loss rate: 96.13%

-- Flow 1:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 1112.166 ms

Loss rate: 47.18%

-- Flow 2:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 1146.372 ms

Loss rate: 94.05%

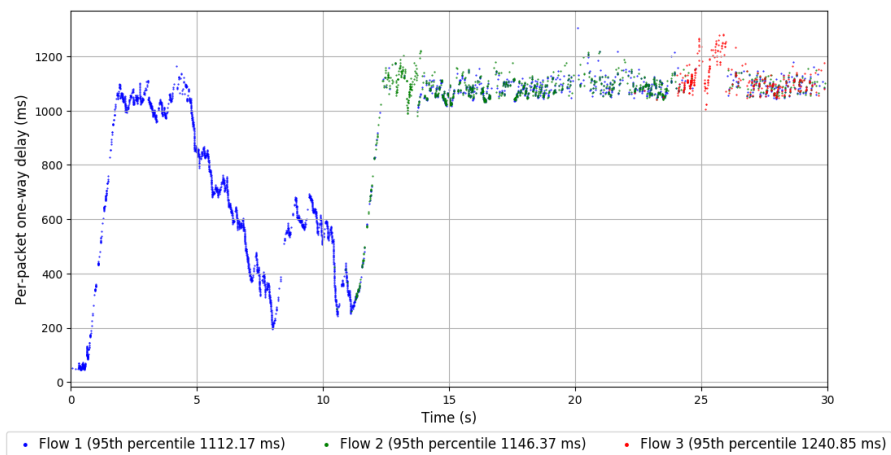
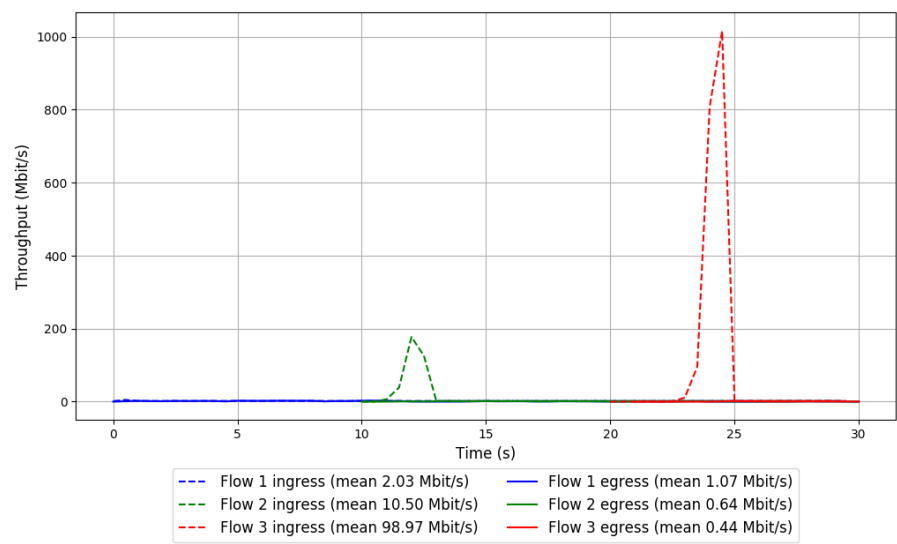
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1240.845 ms

Loss rate: 99.61%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 11:19:26

End at: 2018-05-24 11:19:56

Local clock offset: 2.959 ms

Remote clock offset: 5.298 ms

# Below is generated by plot.py at 2018-05-24 12:11:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 1121.643 ms

Loss rate: 79.23%

-- Flow 1:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 1111.680 ms

Loss rate: 49.30%

-- Flow 2:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 1135.848 ms

Loss rate: 91.88%

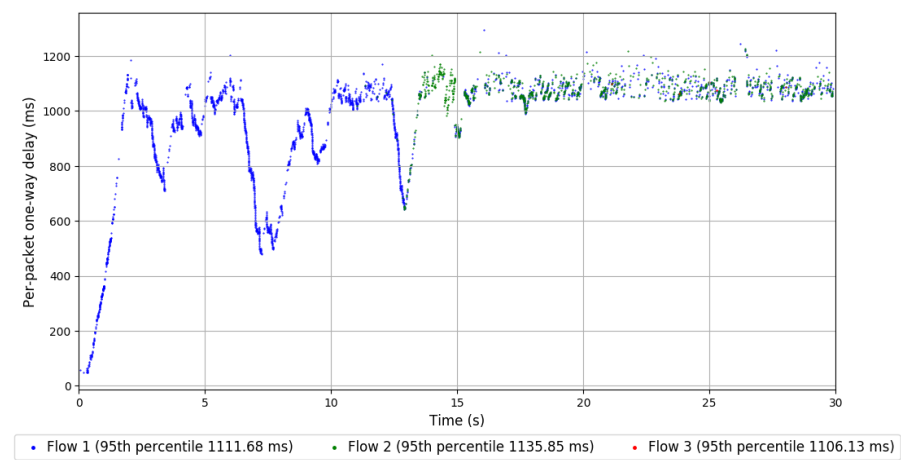
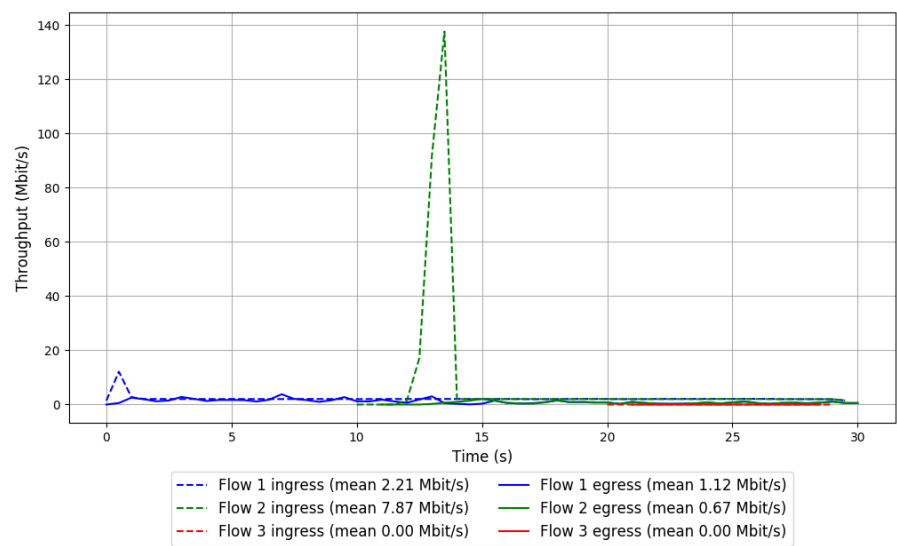
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1106.127 ms

Loss rate: 75.06%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 11:37:05

End at: 2018-05-24 11:37:35

Local clock offset: 0.175 ms

Remote clock offset: 4.806 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.57 Mbit/s

95th percentile per-packet one-way delay: 1193.076 ms

Loss rate: 97.52%

-- Flow 1:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 1182.296 ms

Loss rate: 60.16%

-- Flow 2:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 1194.716 ms

Loss rate: 98.58%

-- Flow 3:

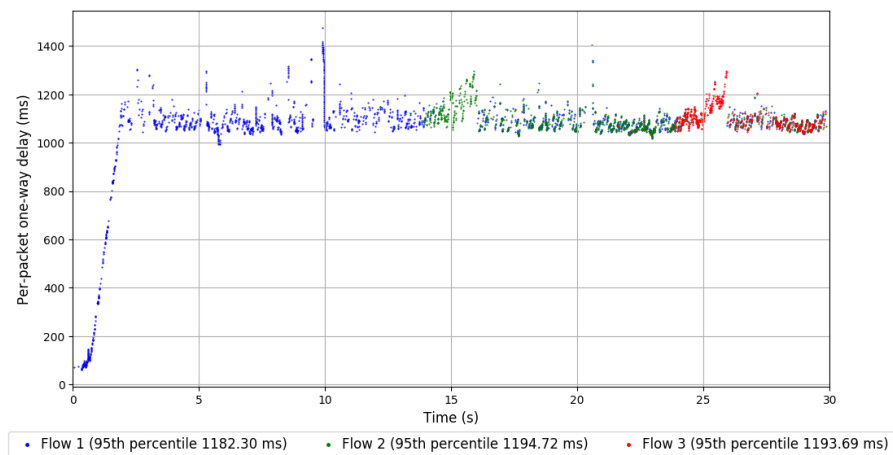
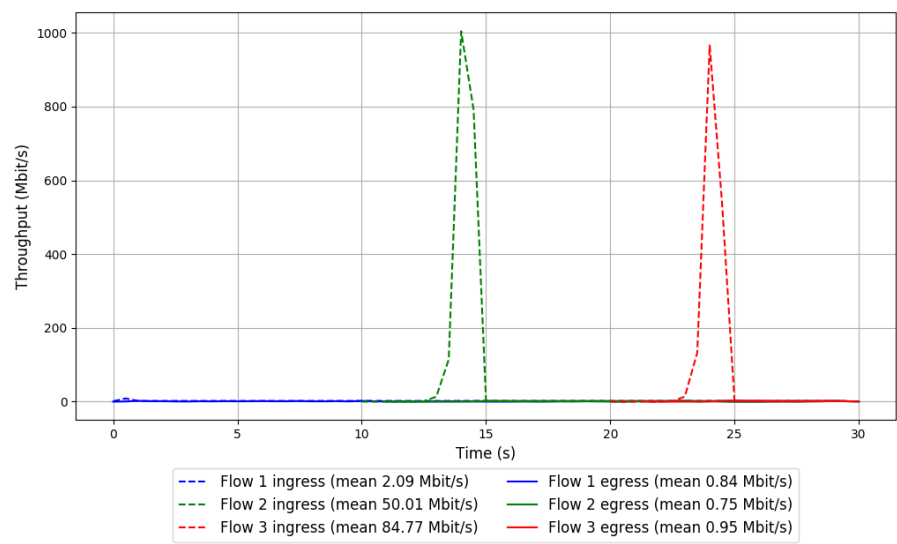
Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 1193.688 ms

Loss rate: 99.06%



Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 11:54:54

End at: 2018-05-24 11:55:24

Local clock offset: 3.361 ms

Remote clock offset: 4.798 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 1114.694 ms

Loss rate: 88.08%

-- Flow 1:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 1098.046 ms

Loss rate: 37.69%

-- Flow 2:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 1118.495 ms

Loss rate: 61.63%

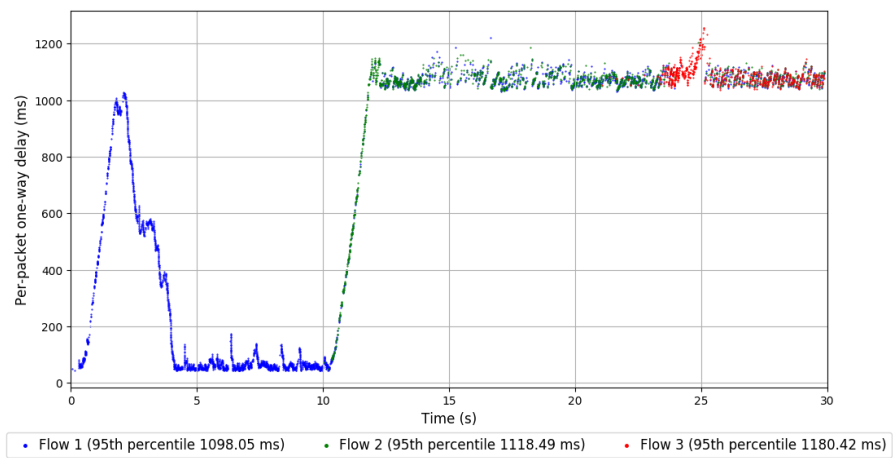
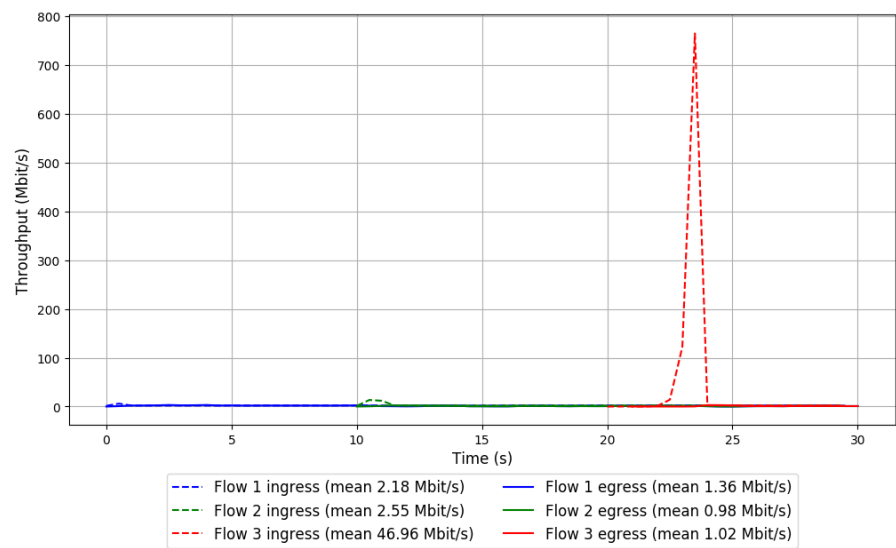
-- Flow 3:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 1180.418 ms

Loss rate: 98.06%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

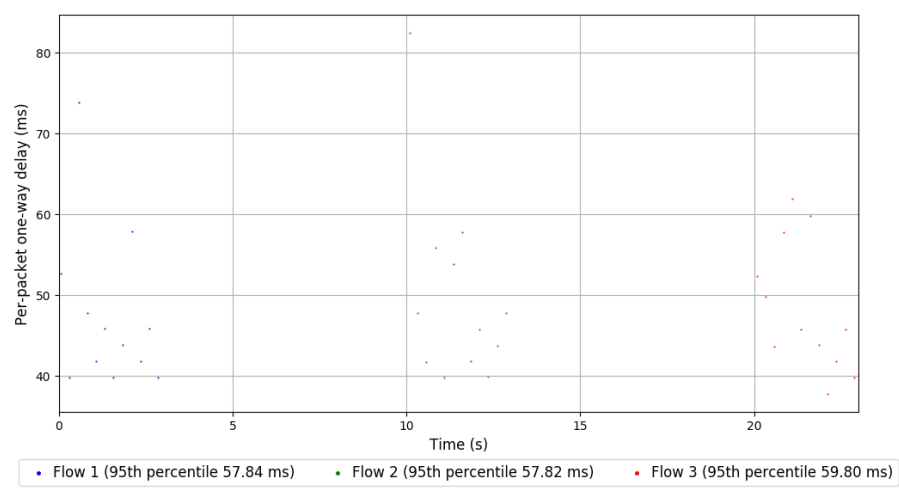
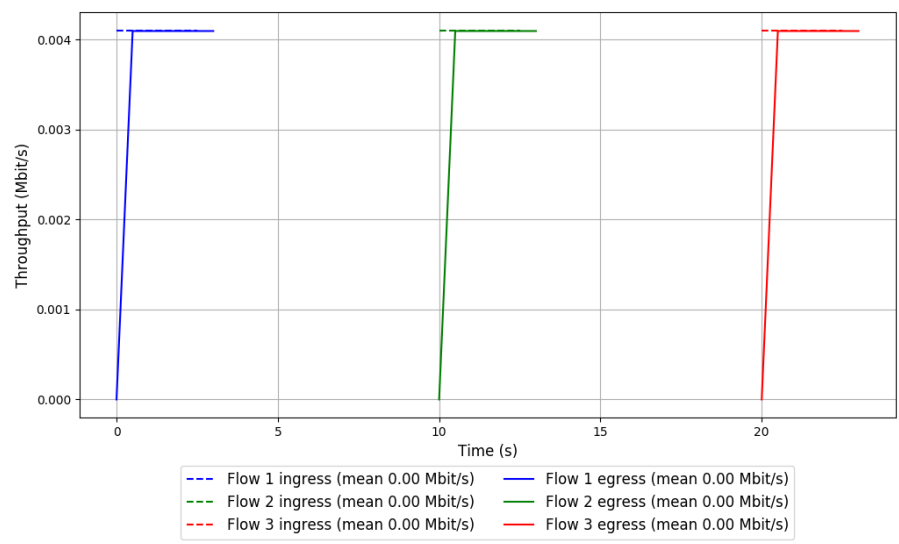
Start at: 2018-05-24 09:30:18

End at: 2018-05-24 09:30:48

Local clock offset: 0.585 ms

Remote clock offset: 10.939 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

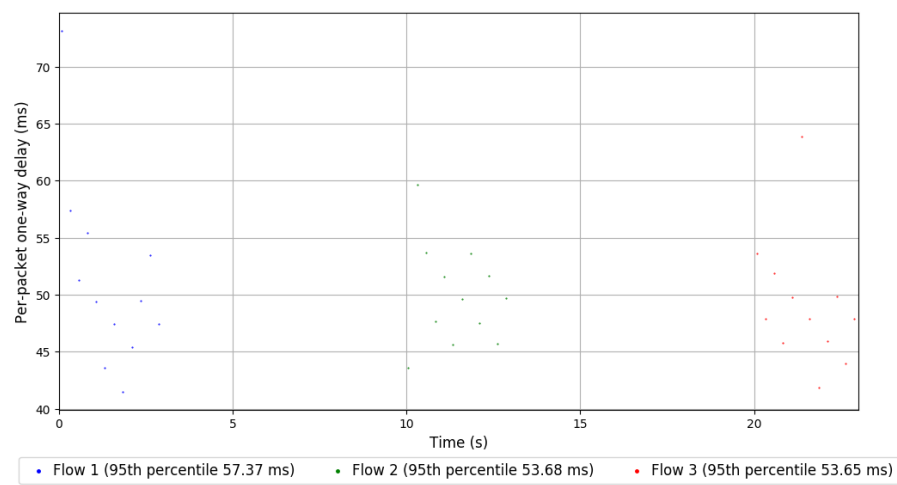
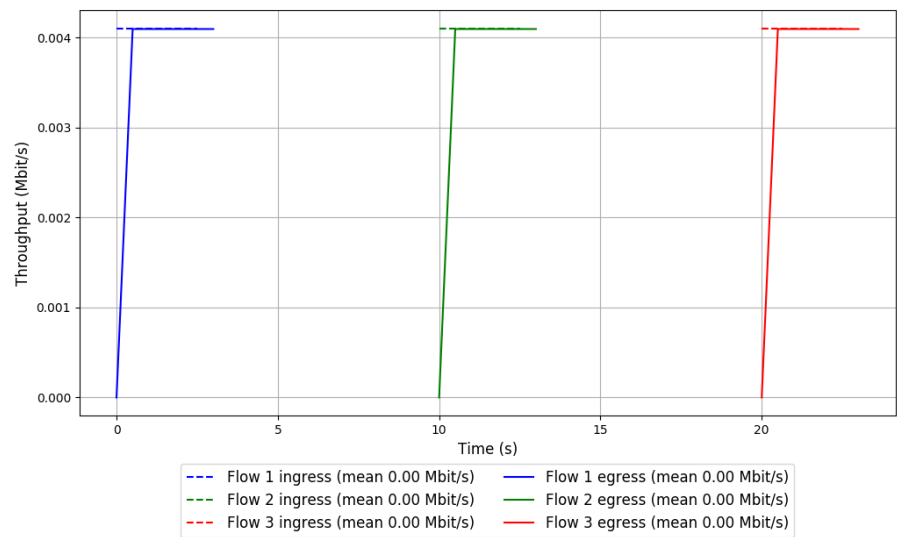
Start at: 2018-05-24 09:47:54

End at: 2018-05-24 09:48:24

Local clock offset: -2.979 ms

Remote clock offset: 9.291 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-24 10:05:35

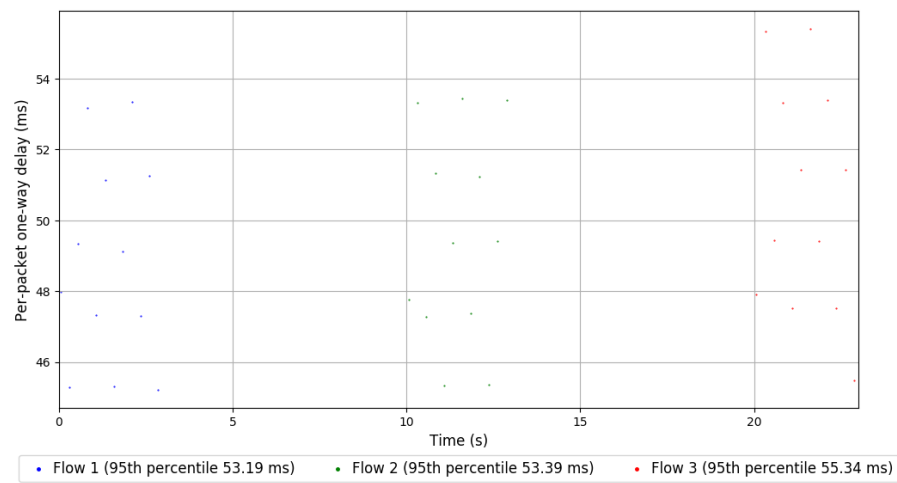
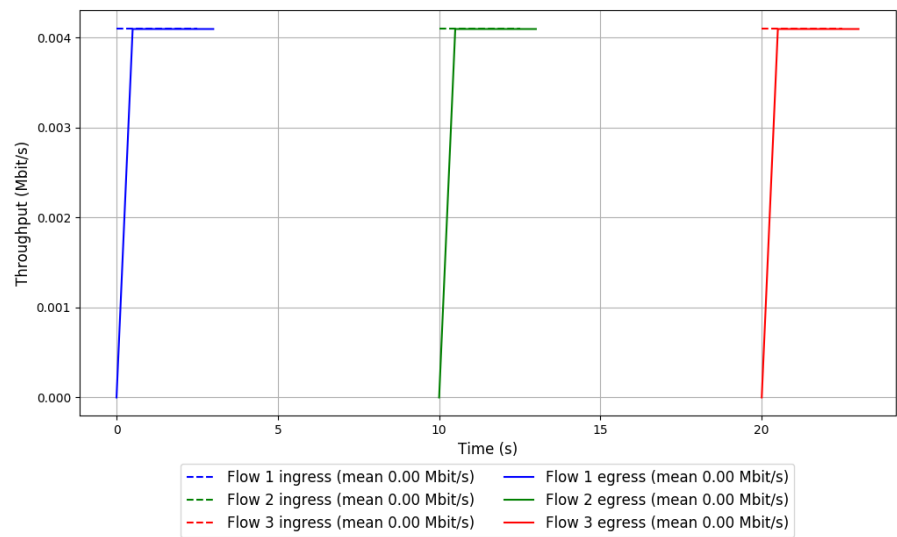
End at: 2018-05-24 10:06:05

Local clock offset: 2.038 ms

Remote clock offset: 1.16 ms



Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

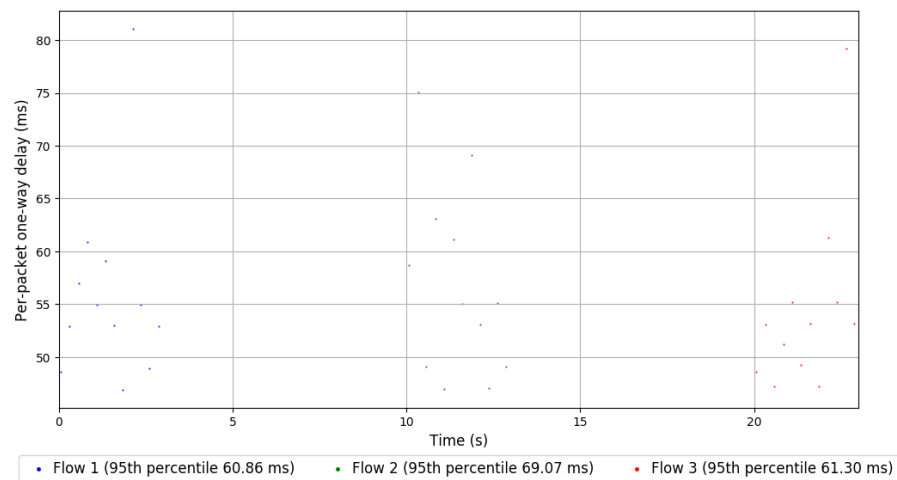
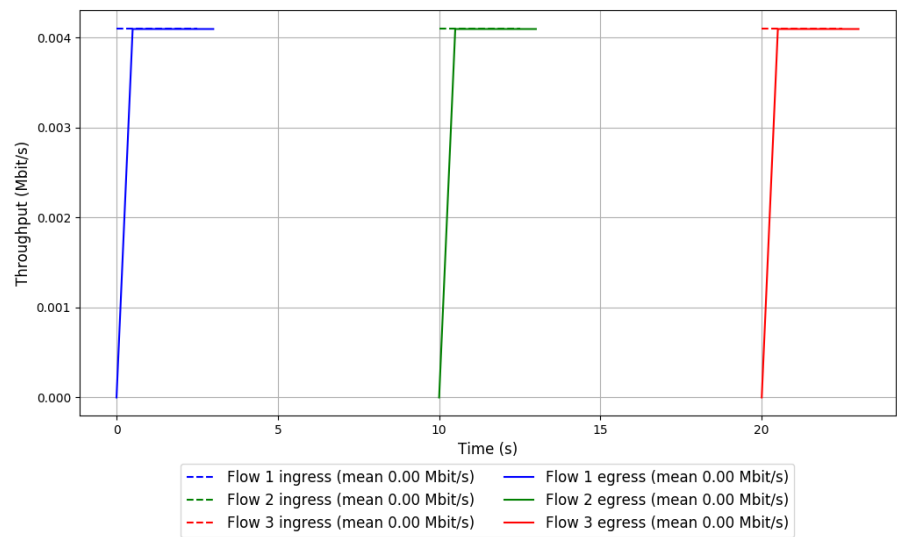
Start at: 2018-05-24 10:23:17

End at: 2018-05-24 10:23:47

Local clock offset: 1.898 ms

Remote clock offset: -1.898 ms

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

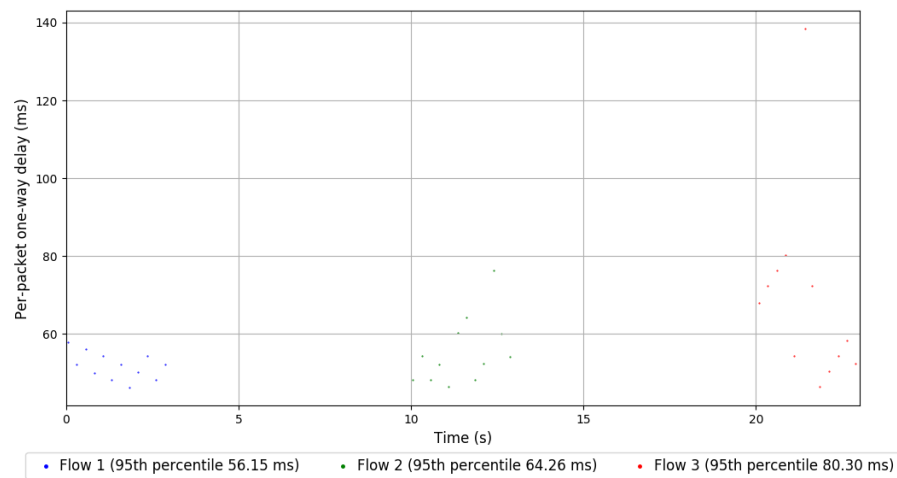
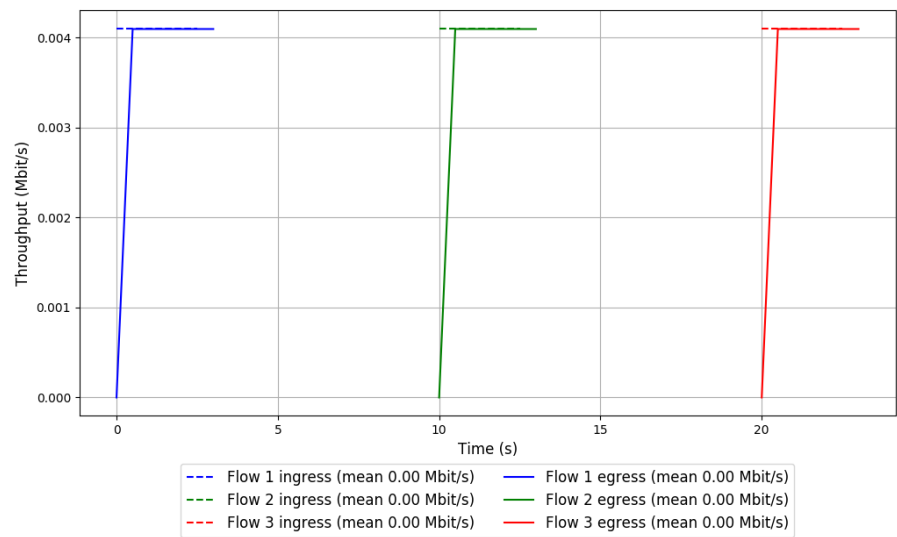
Start at: 2018-05-24 10:40:53

End at: 2018-05-24 10:41:23

Local clock offset: 2.257 ms

Remote clock offset: -4.638 ms

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

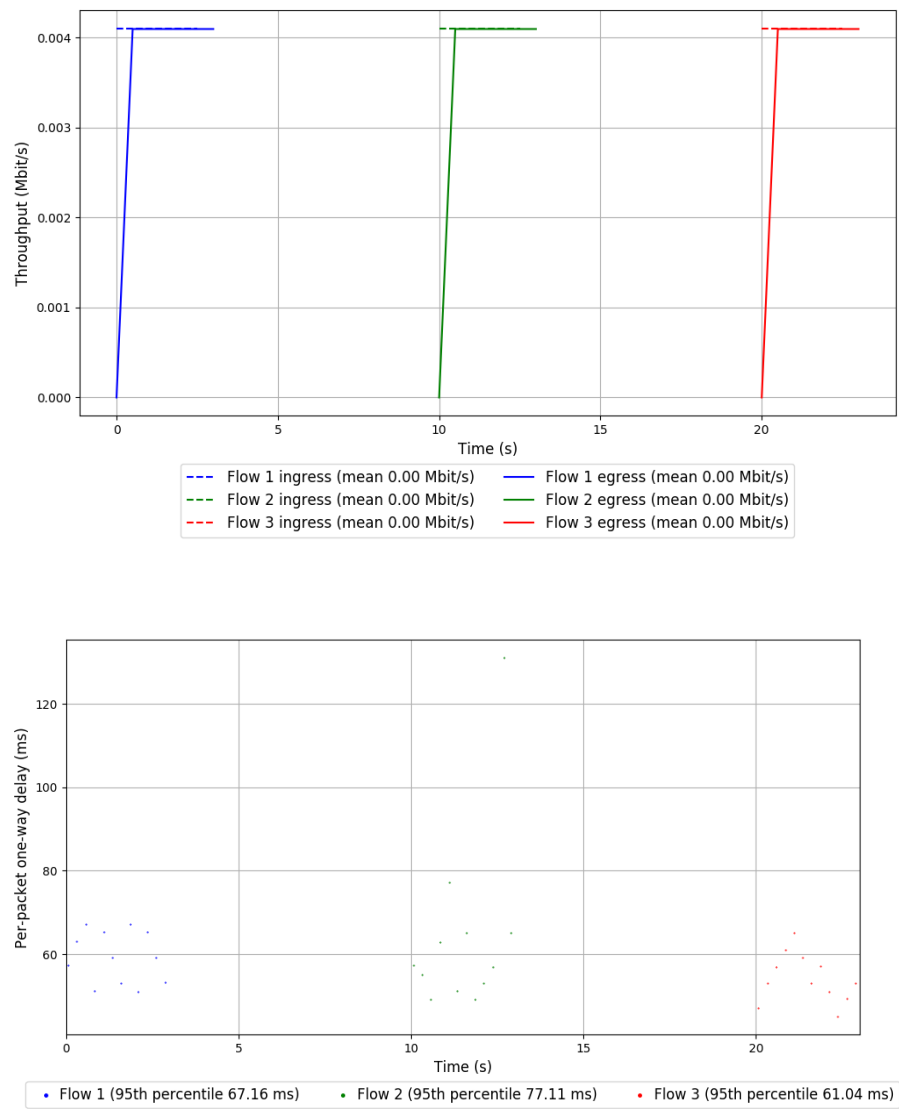
Start at: 2018-05-24 10:58:28

End at: 2018-05-24 10:58:58

Local clock offset: 0.133 ms

Remote clock offset: -0.82 ms

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-24 11:16:05

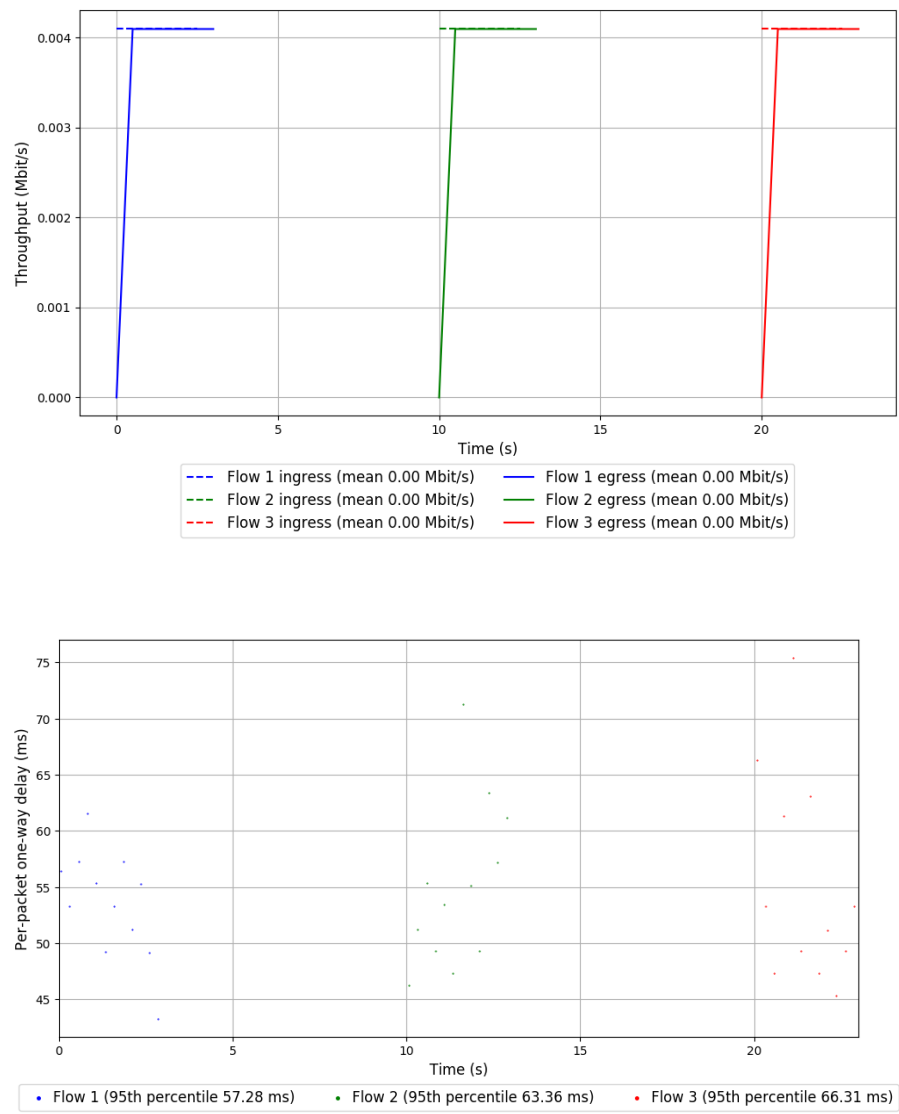
End at: 2018-05-24 11:16:35

Local clock offset: 2.414 ms

Remote clock offset: 6.582 ms



Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

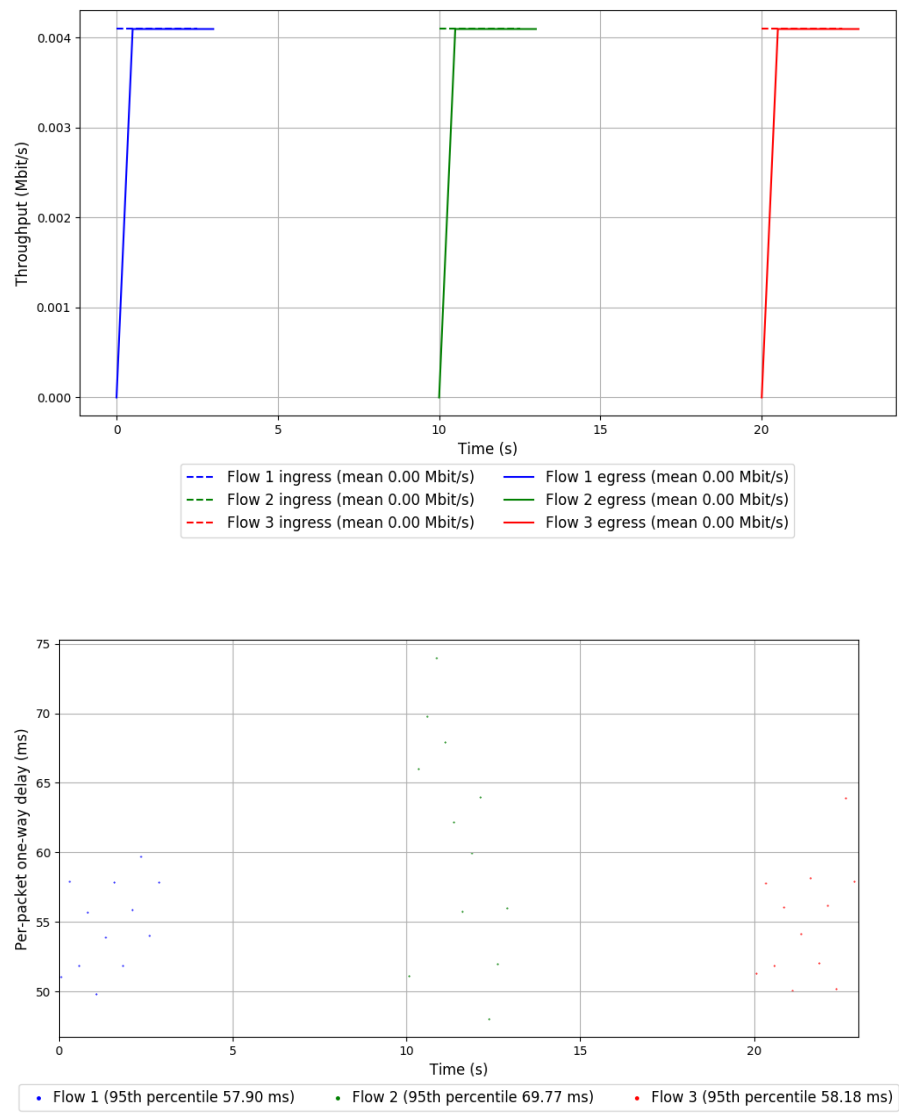
Start at: 2018-05-24 11:33:47

End at: 2018-05-24 11:34:17

Local clock offset: -1.536 ms

Remote clock offset: 6.287 ms

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

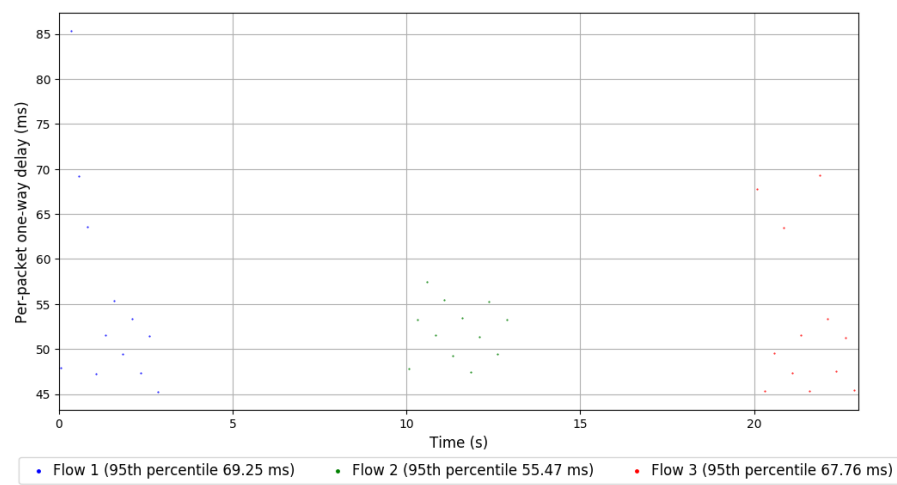
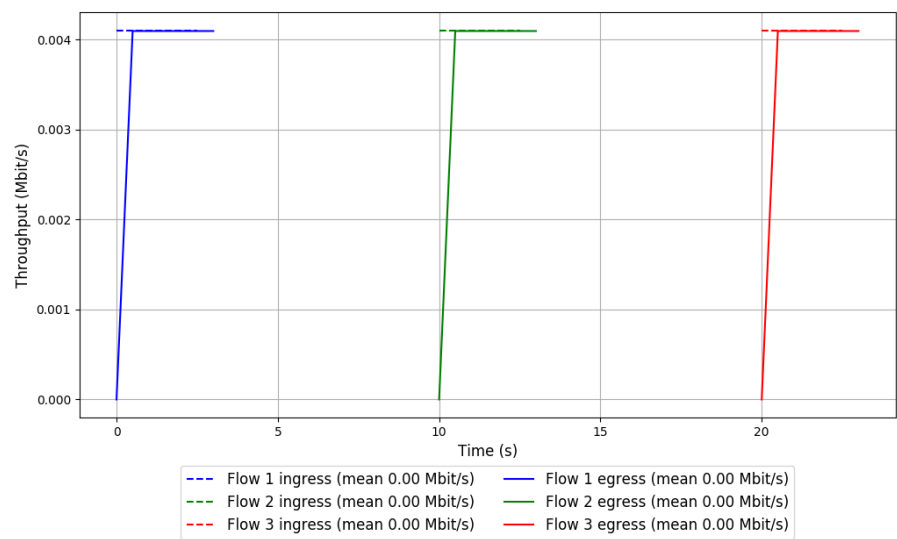
Start at: 2018-05-24 11:51:38

End at: 2018-05-24 11:52:08

Local clock offset: 0.906 ms

Remote clock offset: 3.166 ms

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

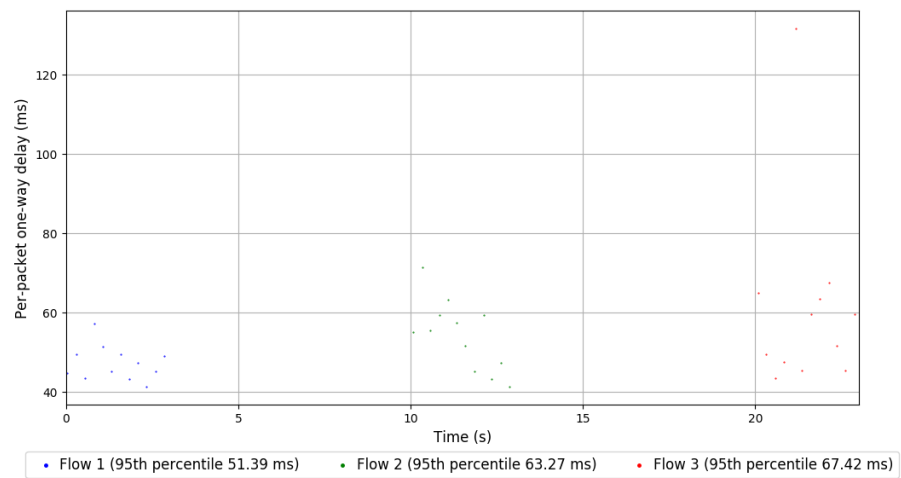
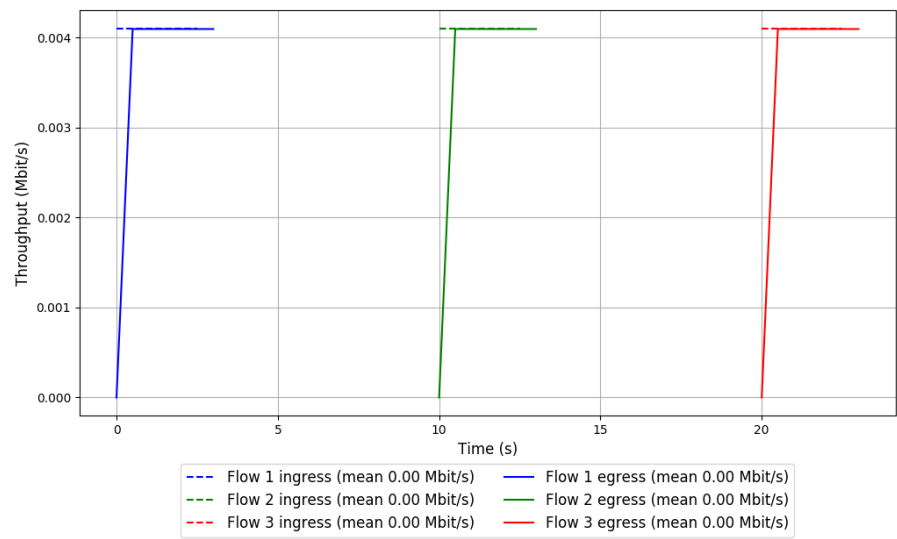
Start at: 2018-05-24 12:09:28

End at: 2018-05-24 12:09:58

Local clock offset: 2.057 ms

Remote clock offset: 2.208 ms

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-24 09:22:38

End at: 2018-05-24 09:23:08

Local clock offset: 0.669 ms

Remote clock offset: 6.887 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 920.720 ms

Loss rate: 3.23%

-- Flow 1:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 849.551 ms

Loss rate: 2.05%

-- Flow 2:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 947.597 ms

Loss rate: 3.62%

-- Flow 3:

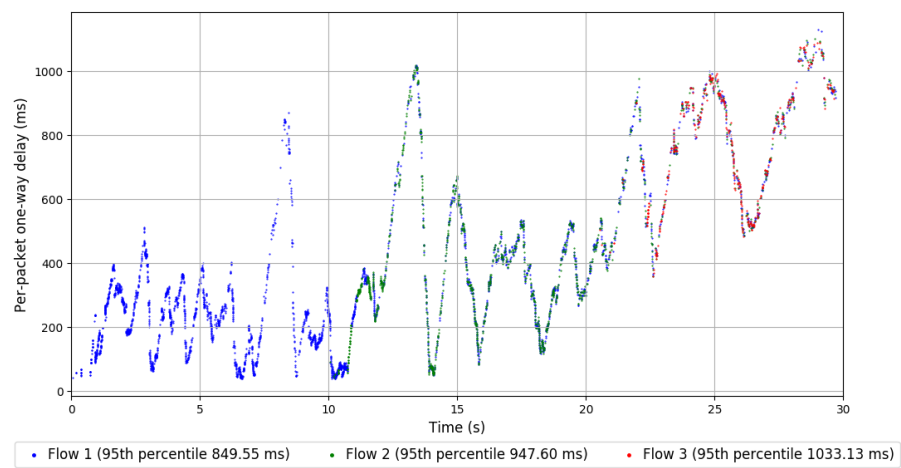
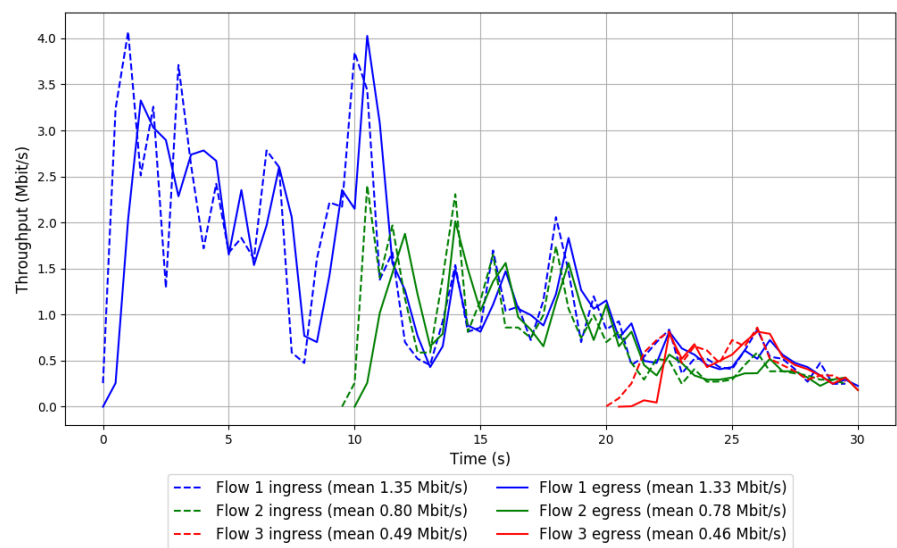
Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 1033.131 ms

Loss rate: 11.86%



Run 1: Report of QUIC Cubic — Data Link

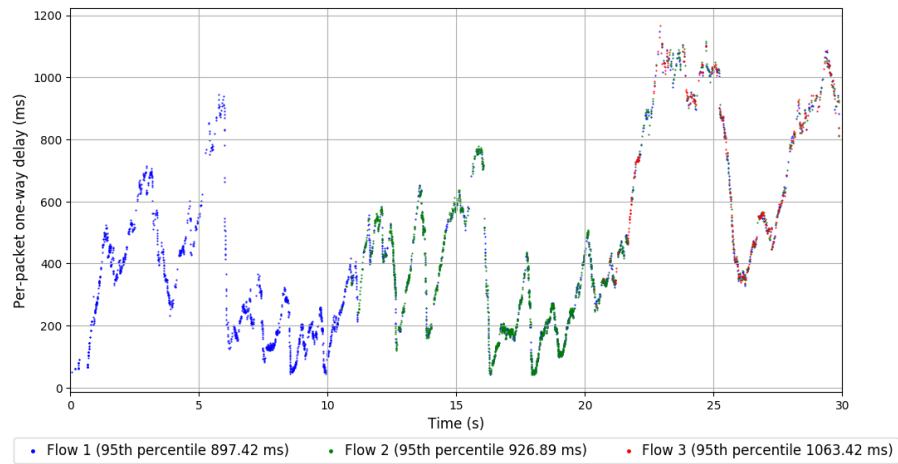
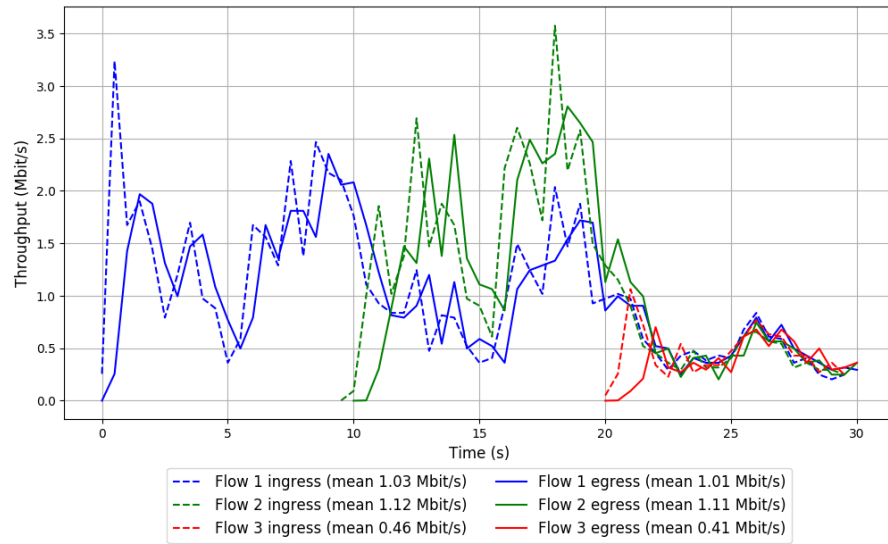


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-24 09:40:10  
End at: 2018-05-24 09:40:40  
Local clock offset: -1.578 ms  
Remote clock offset: 15.291 ms

# Below is generated by plot.py at 2018-05-24 12:11:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.87 Mbit/s  
95th percentile per-packet one-way delay: 955.485 ms  
Loss rate: 3.10%  
-- Flow 1:  
Average throughput: 1.01 Mbit/s  
95th percentile per-packet one-way delay: 897.417 ms  
Loss rate: 2.20%  
-- Flow 2:  
Average throughput: 1.11 Mbit/s  
95th percentile per-packet one-way delay: 926.892 ms  
Loss rate: 2.33%  
-- Flow 3:  
Average throughput: 0.41 Mbit/s  
95th percentile per-packet one-way delay: 1063.424 ms  
Loss rate: 13.08%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 09:57:49

End at: 2018-05-24 09:58:19

Local clock offset: -0.678 ms

Remote clock offset: 2.787 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 648.401 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 557.800 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 657.135 ms

Loss rate: 2.70%

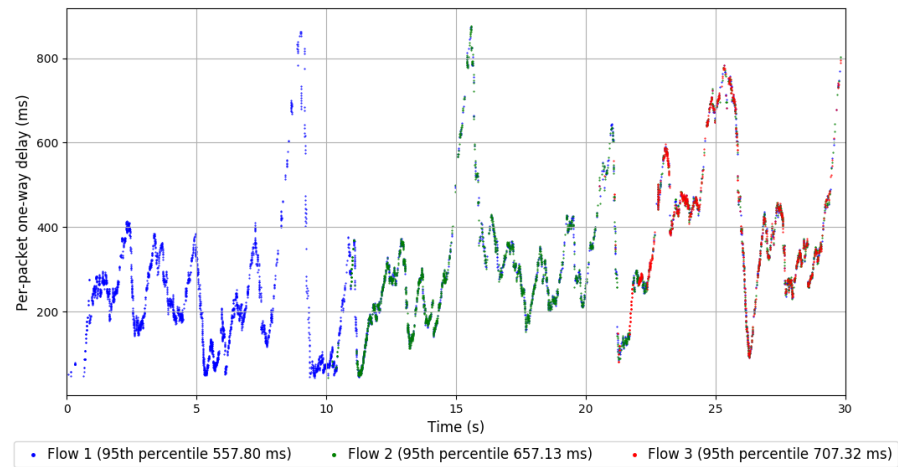
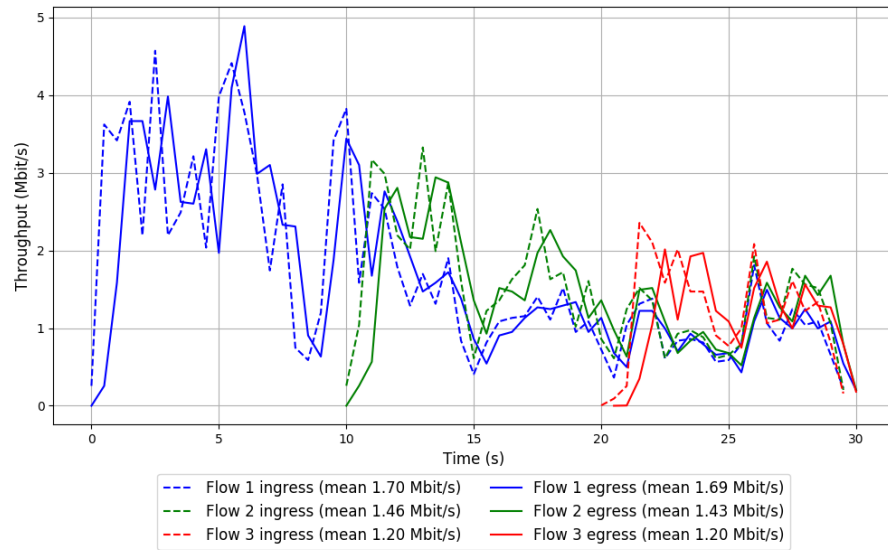
-- Flow 3:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 707.319 ms

Loss rate: 5.03%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 10:15:37

End at: 2018-05-24 10:16:07

Local clock offset: 1.174 ms

Remote clock offset: 1.37 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 646.228 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 653.560 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 661.598 ms

Loss rate: 1.72%

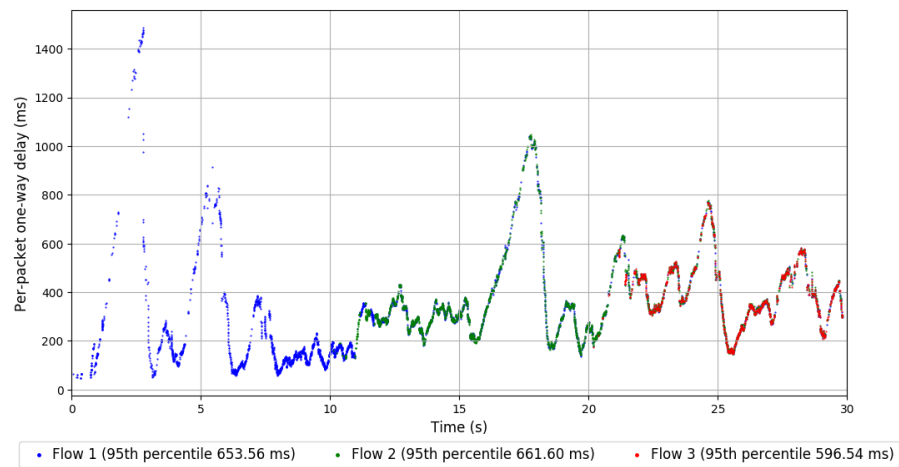
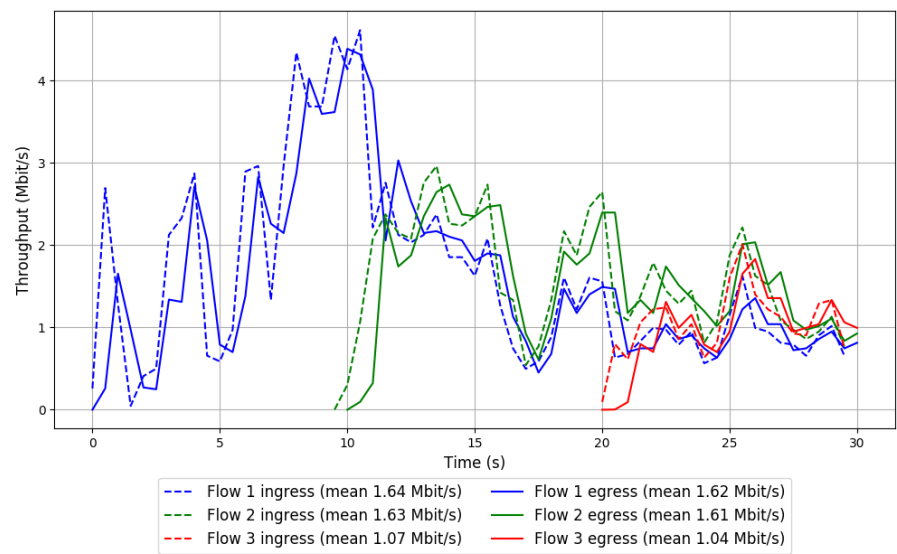
-- Flow 3:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 596.542 ms

Loss rate: 4.21%

Run 4: Report of QUIC Cubic — Data Link



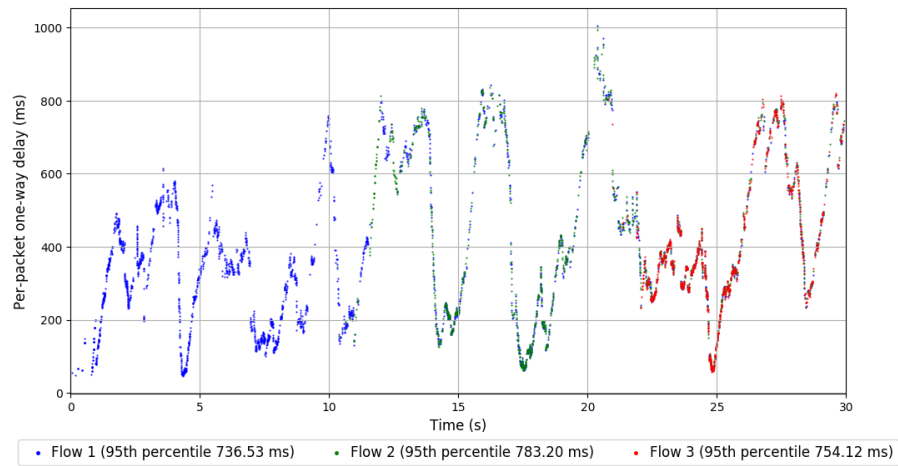
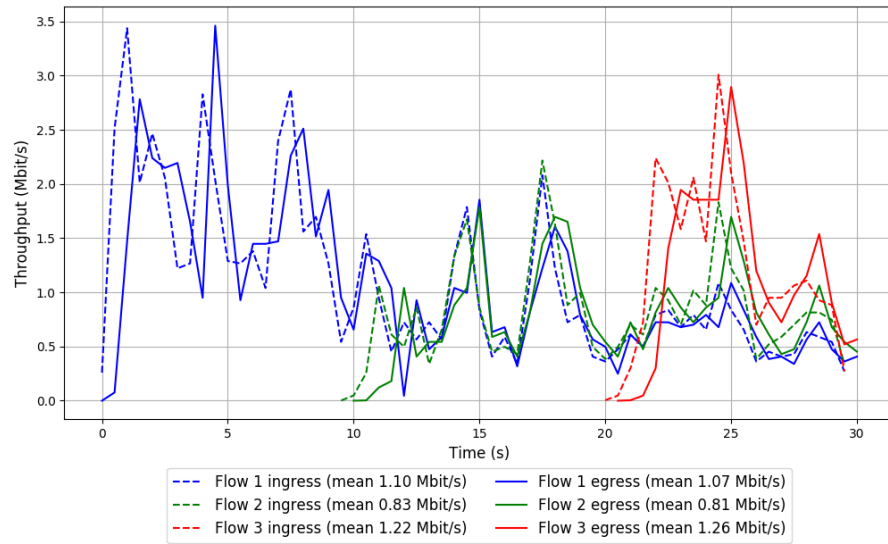
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 10:33:08  
End at: 2018-05-24 10:33:38  
Local clock offset: 1.094 ms  
Remote clock offset: -4.677 ms

# Below is generated by plot.py at 2018-05-24 12:11:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 756.585 ms  
Loss rate: 2.85%  
-- Flow 1:  
Average throughput: 1.07 Mbit/s  
95th percentile per-packet one-way delay: 736.531 ms  
Loss rate: 2.04%  
-- Flow 2:  
Average throughput: 0.81 Mbit/s  
95th percentile per-packet one-way delay: 783.196 ms  
Loss rate: 3.38%  
-- Flow 3:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 754.117 ms  
Loss rate: 4.36%



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

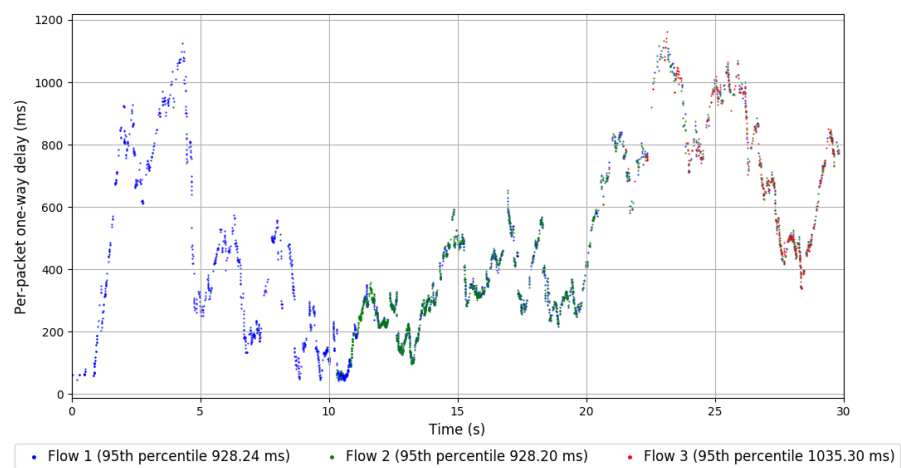
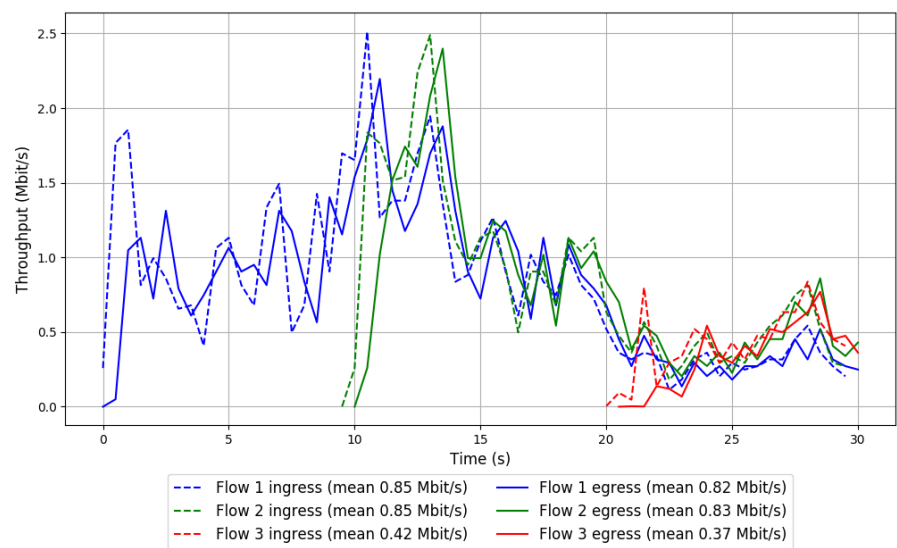


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 10:50:48  
End at: 2018-05-24 10:51:18  
Local clock offset: 2.173 ms  
Remote clock offset: -7.581 ms

# Below is generated by plot.py at 2018-05-24 12:11:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 966.700 ms  
Loss rate: 4.39%  
-- Flow 1:  
Average throughput: 0.82 Mbit/s  
95th percentile per-packet one-way delay: 928.238 ms  
Loss rate: 2.74%  
-- Flow 2:  
Average throughput: 0.83 Mbit/s  
95th percentile per-packet one-way delay: 928.203 ms  
Loss rate: 3.76%  
-- Flow 3:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 1035.300 ms  
Loss rate: 17.14%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 11:08:18

End at: 2018-05-24 11:08:48

Local clock offset: 2.804 ms

Remote clock offset: 5.255 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 833.567 ms

Loss rate: 4.86%

-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 792.376 ms

Loss rate: 3.09%

-- Flow 2:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 881.663 ms

Loss rate: 4.58%

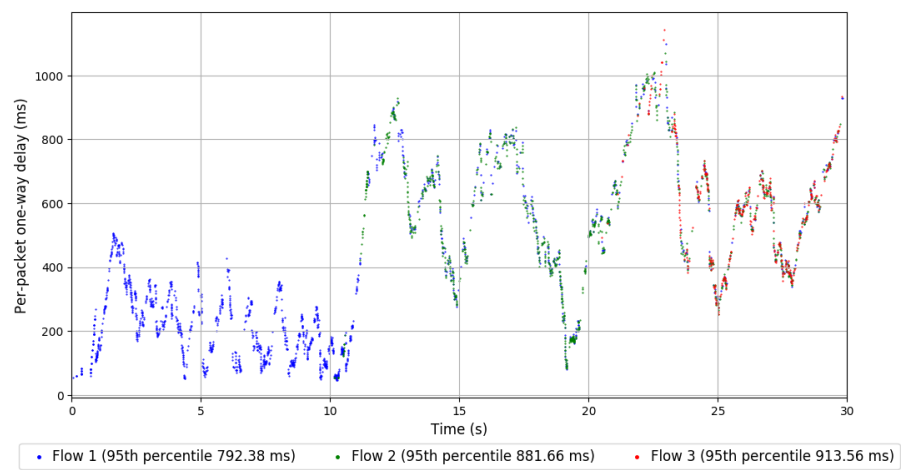
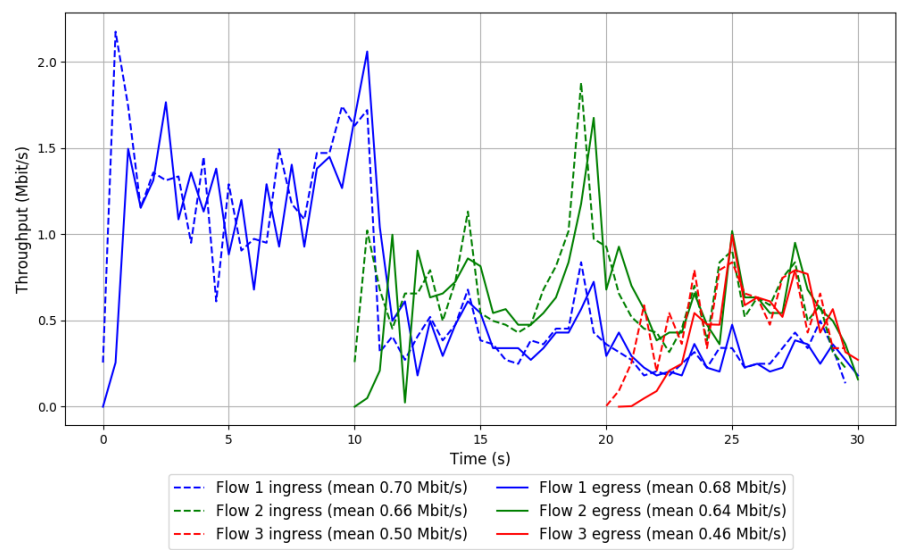
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 913.561 ms

Loss rate: 13.06%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 11:26:01

End at: 2018-05-24 11:26:31

Local clock offset: -1.999 ms

Remote clock offset: 9.037 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 1070.236 ms

Loss rate: 7.94%

-- Flow 1:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 1010.541 ms

Loss rate: 4.45%

-- Flow 2:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 1061.386 ms

Loss rate: 7.05%

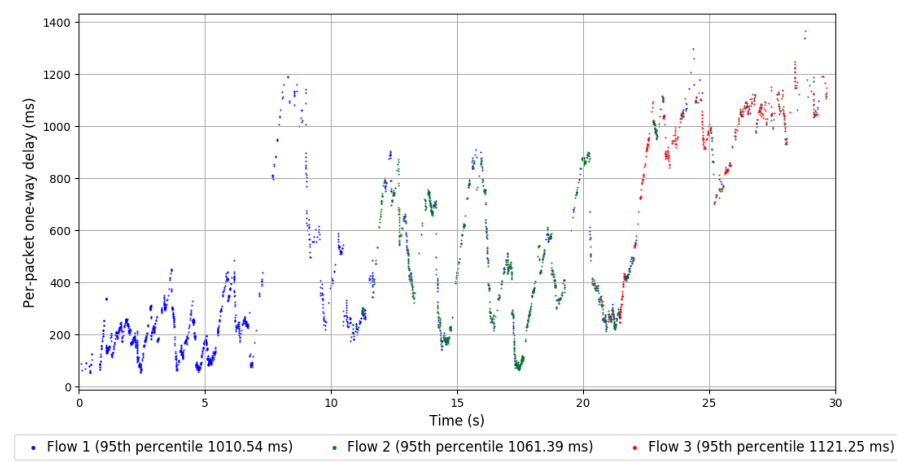
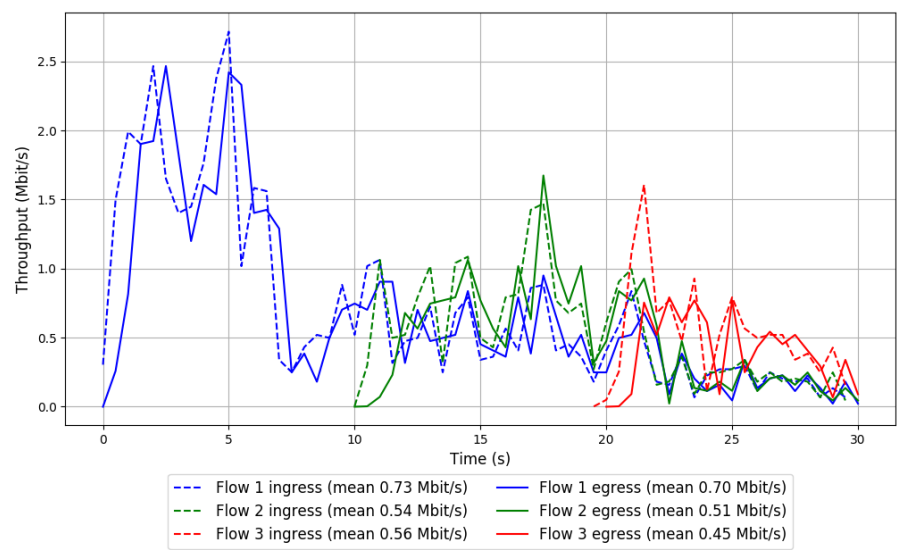
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 1121.251 ms

Loss rate: 23.32%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 11:43:55

End at: 2018-05-24 11:44:25

Local clock offset: 2.975 ms

Remote clock offset: 5.11 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 1057.521 ms

Loss rate: 5.68%

-- Flow 1:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 662.169 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 1057.521 ms

Loss rate: 5.84%

-- Flow 3:

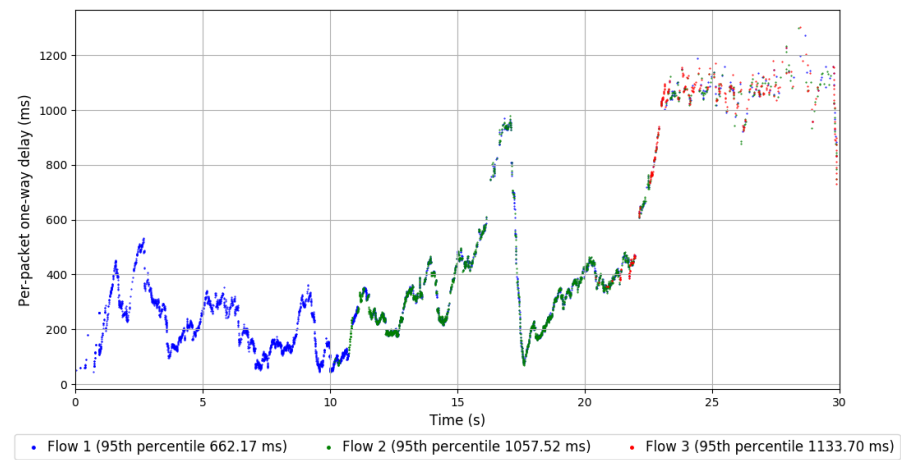
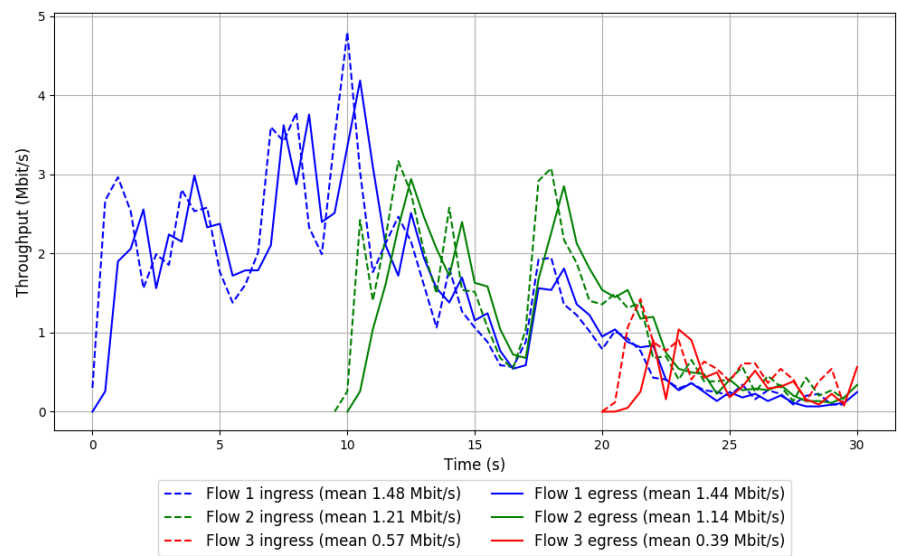
Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 1133.702 ms

Loss rate: 31.60%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 12:01:36

End at: 2018-05-24 12:02:06

Local clock offset: -2.606 ms

Remote clock offset: 3.673 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 536.630 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 518.019 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 526.254 ms

Loss rate: 1.27%

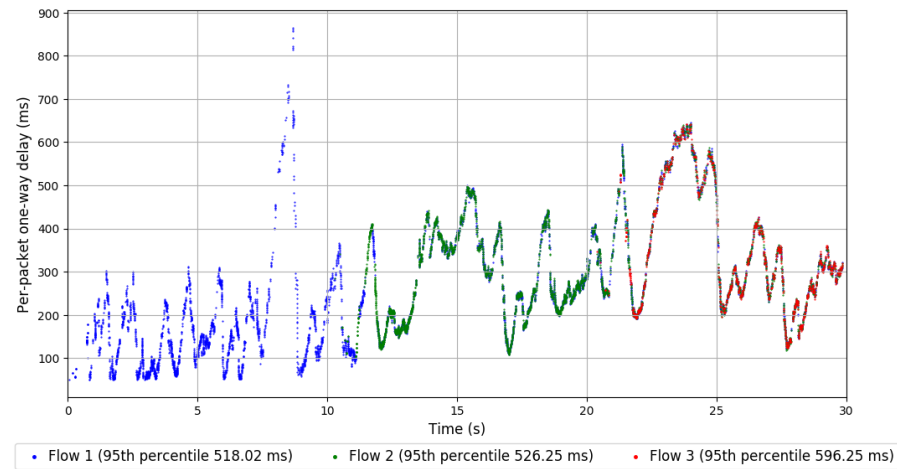
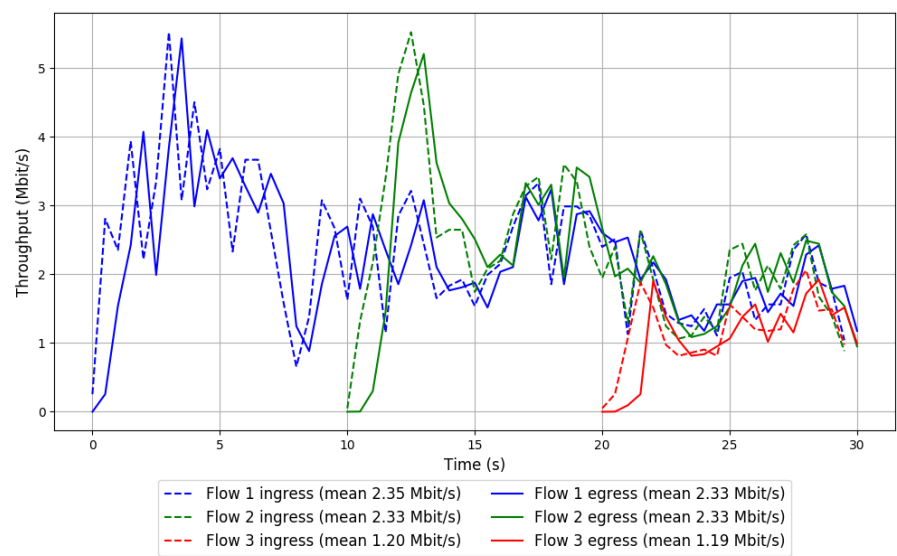
-- Flow 3:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 596.247 ms

Loss rate: 4.25%

Run 10: Report of QUIC Cubic — Data Link

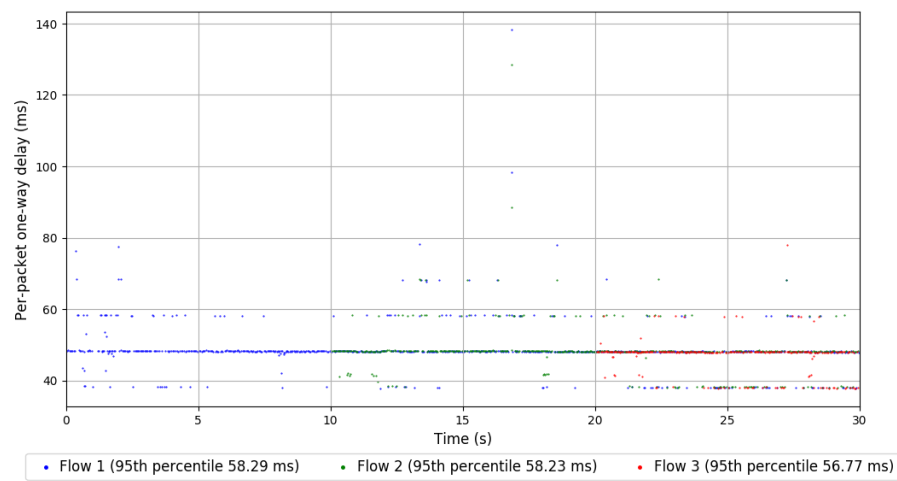
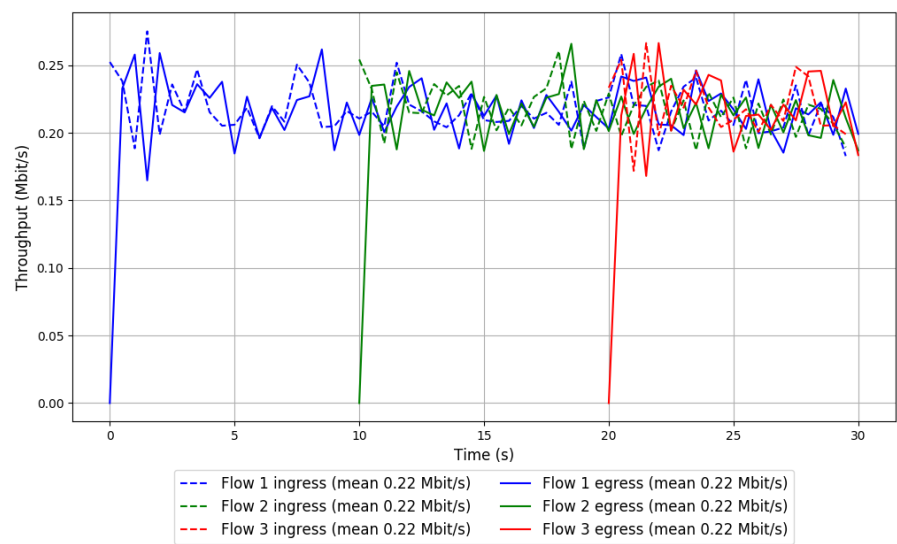


```
Run 1: Statistics of SReAM

Start at: 2018-05-24 09:18:10
End at: 2018-05-24 09:18:40
Local clock offset: 1.355 ms
Remote clock offset: 3.953 ms

# Below is generated by plot.py at 2018-05-24 12:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 58.229 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.286 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.235 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.772 ms
Loss rate: 0.35%
```

Run 1: Report of SReAM — Data Link

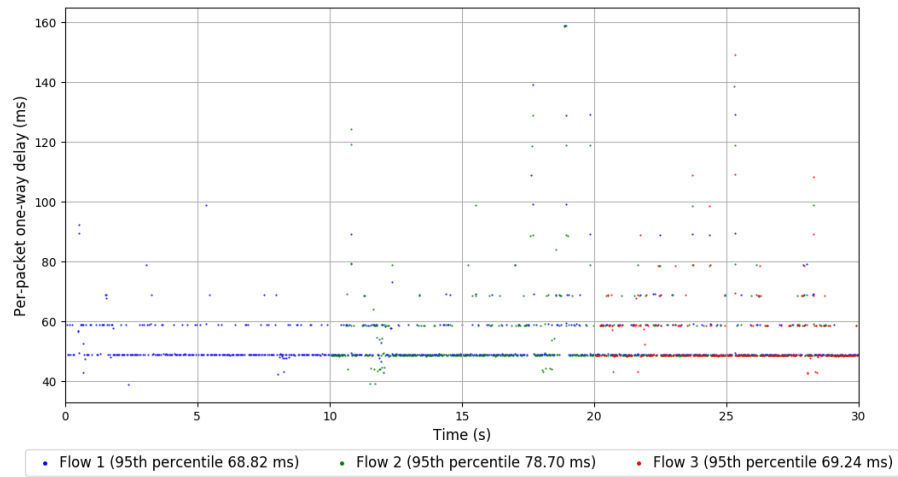
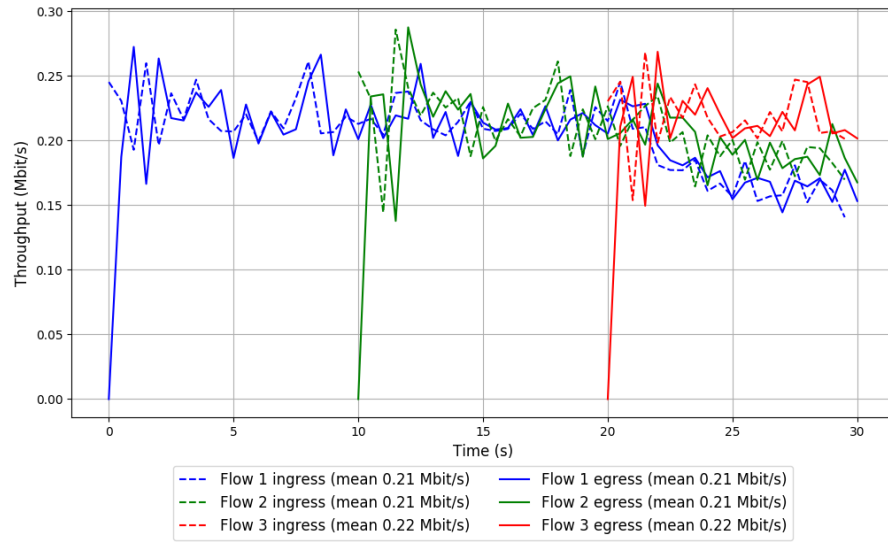


```
Run 2: Statistics of SReAM

Start at: 2018-05-24 09:35:48
End at: 2018-05-24 09:36:18
Local clock offset: 0.685 ms
Remote clock offset: 13.384 ms

# Below is generated by plot.py at 2018-05-24 12:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 68.907 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 68.817 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 78.705 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 69.236 ms
Loss rate: 0.36%
```

## Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-05-24 09:53:26

End at: 2018-05-24 09:53:56

Local clock offset: 1.448 ms

Remote clock offset: 5.323 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 68.346 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 68.466 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.981 ms

Loss rate: 0.19%

-- Flow 3:

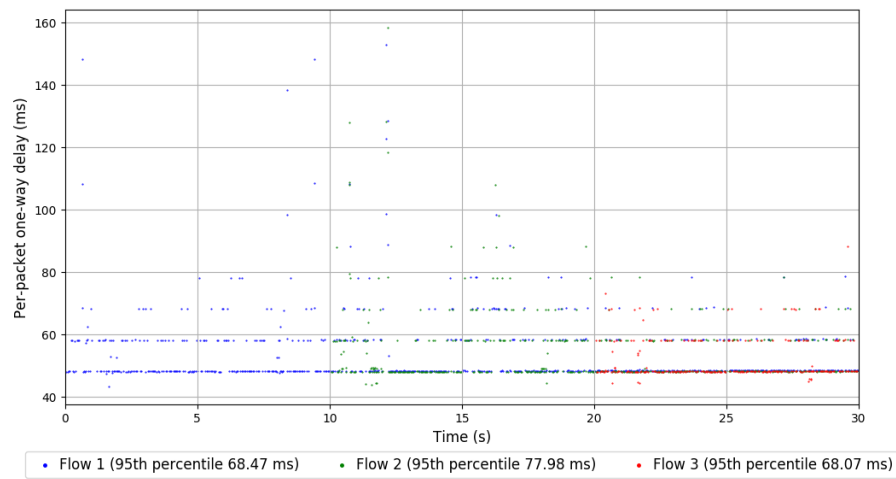
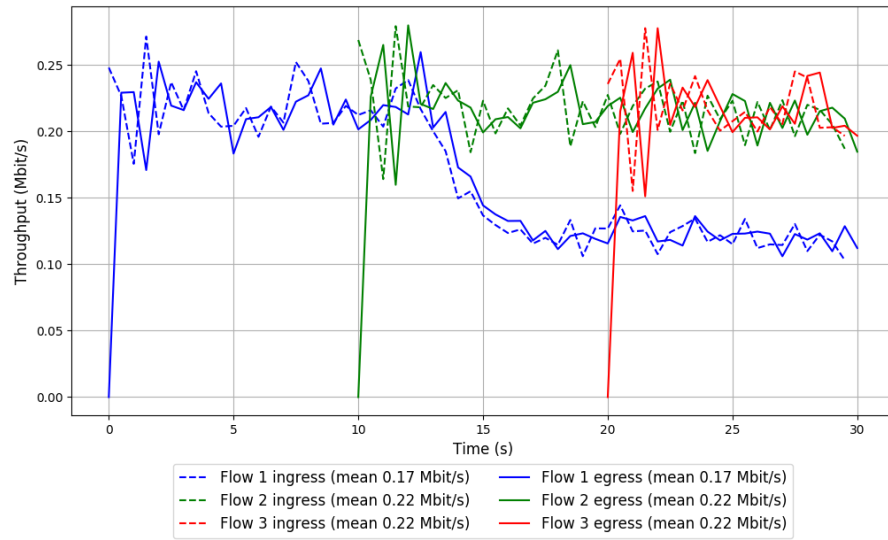
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 68.066 ms

Loss rate: 0.35%



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



Run 4: Statistics of SReAM

Start at: 2018-05-24 10:11:14

End at: 2018-05-24 10:11:44

Local clock offset: 0.508 ms

Remote clock offset: 1.77 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 69.705 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 69.672 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 69.532 ms

Loss rate: 0.14%

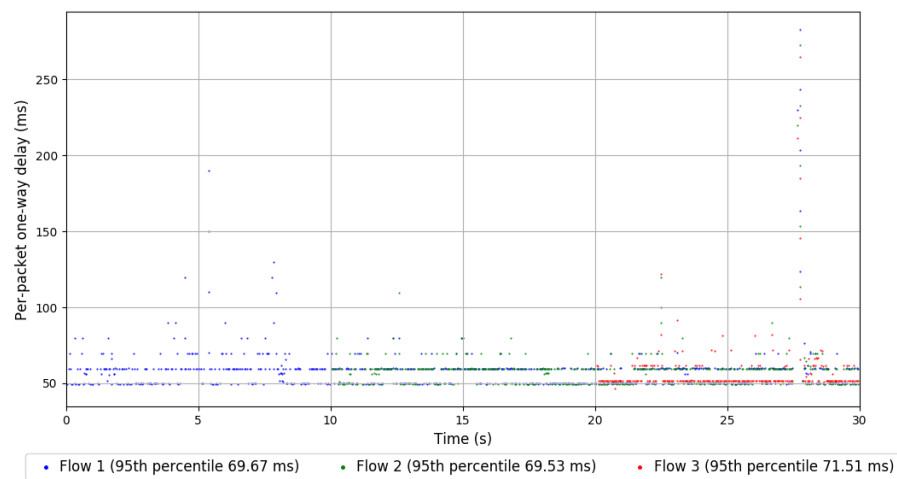
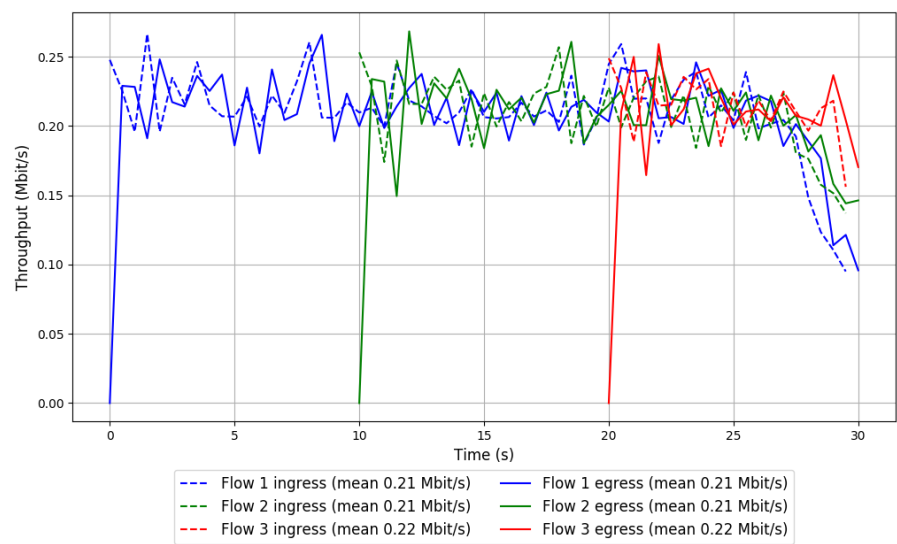
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.510 ms

Loss rate: 0.31%

Run 4: Report of SReAM — Data Link

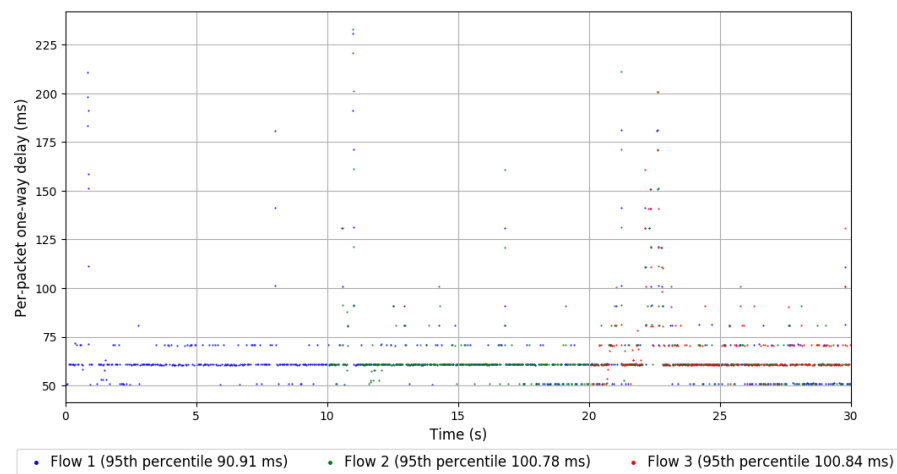
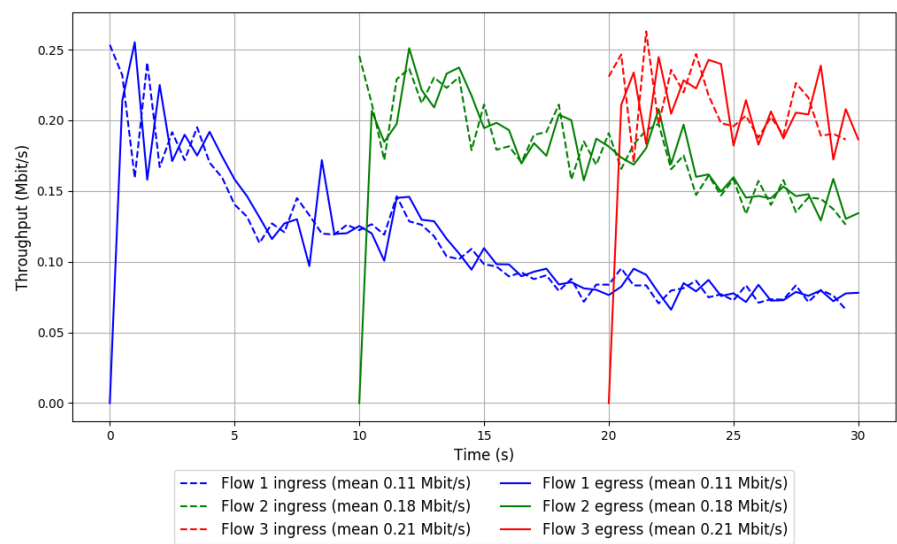


Run 5: Statistics of SCReAM

Start at: 2018-05-24 10:28:45  
End at: 2018-05-24 10:29:15  
Local clock offset: -1.141 ms  
Remote clock offset: -2.991 ms

# Below is generated by plot.py at 2018-05-24 12:11:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 98.391 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 90.907 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 100.781 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 100.843 ms  
Loss rate: 0.34%

Run 5: Report of SReAM — Data Link

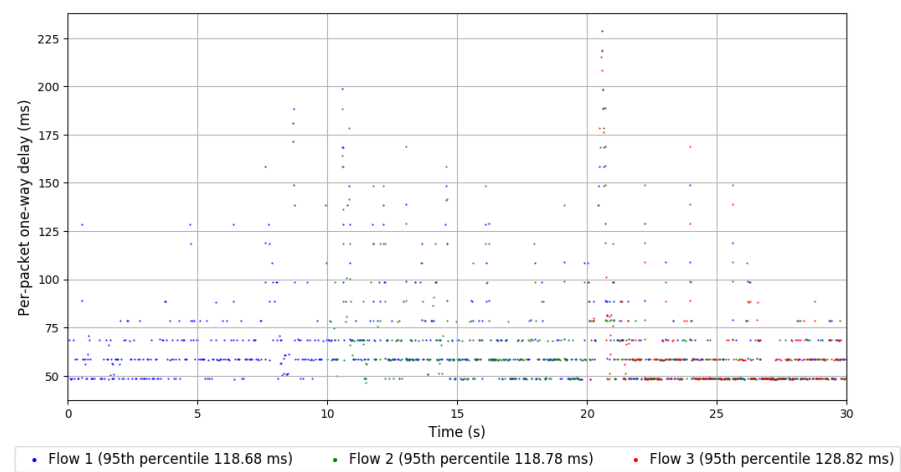
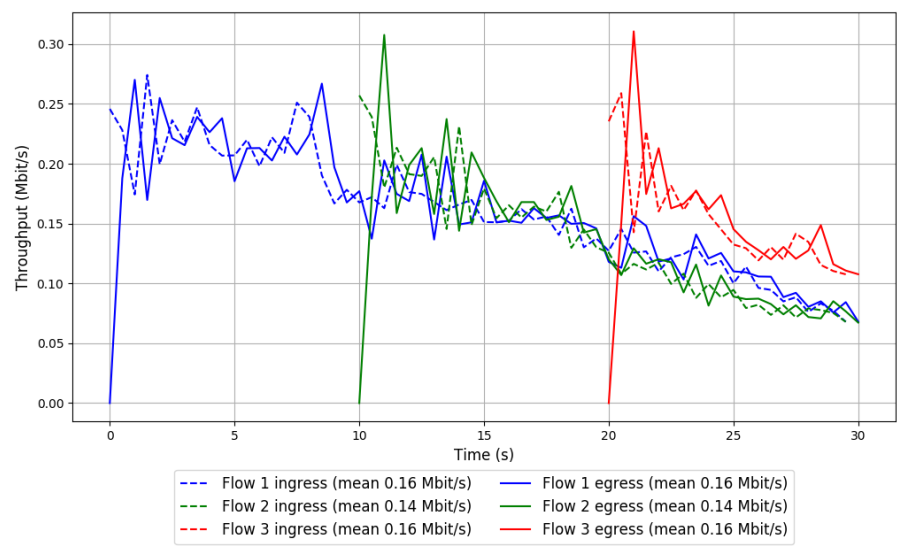


Run 6: Statistics of SCReAM

Start at: 2018-05-24 10:46:23  
End at: 2018-05-24 10:46:53  
Local clock offset: -0.875 ms  
Remote clock offset: -6.346 ms

# Below is generated by plot.py at 2018-05-24 12:11:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 118.776 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 118.682 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 118.776 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 128.823 ms  
Loss rate: 0.27%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-24 11:03:55

End at: 2018-05-24 11:04:25

Local clock offset: 1.485 ms

Remote clock offset: 3.783 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 97.058 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 96.907 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 97.079 ms

Loss rate: 0.16%

-- Flow 3:

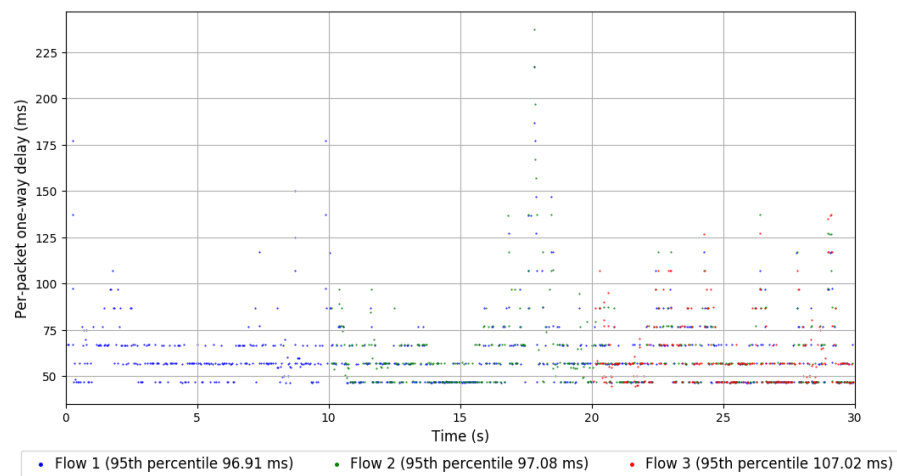
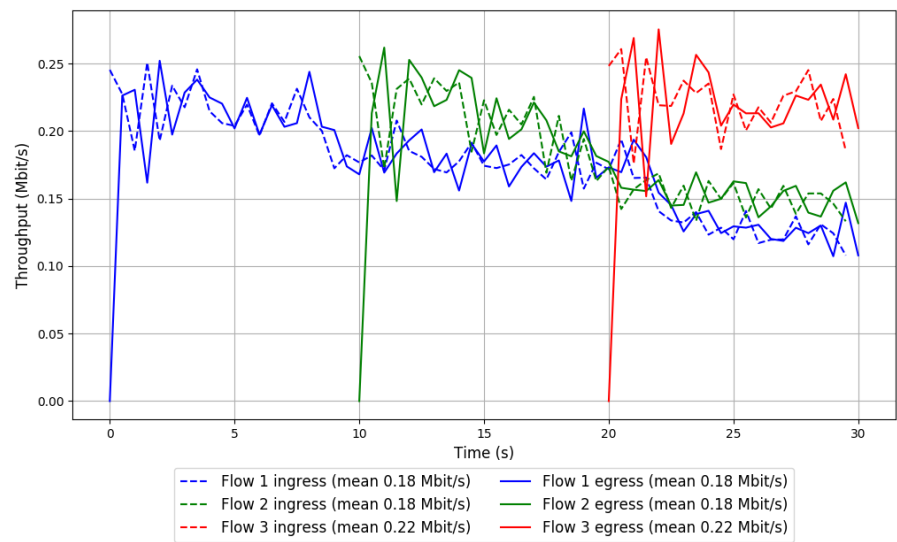
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.017 ms

Loss rate: 0.35%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-24 11:21:37

End at: 2018-05-24 11:22:07

Local clock offset: 2.343 ms

Remote clock offset: 8.181 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 75.849 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 75.896 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 75.855 ms

Loss rate: 0.19%

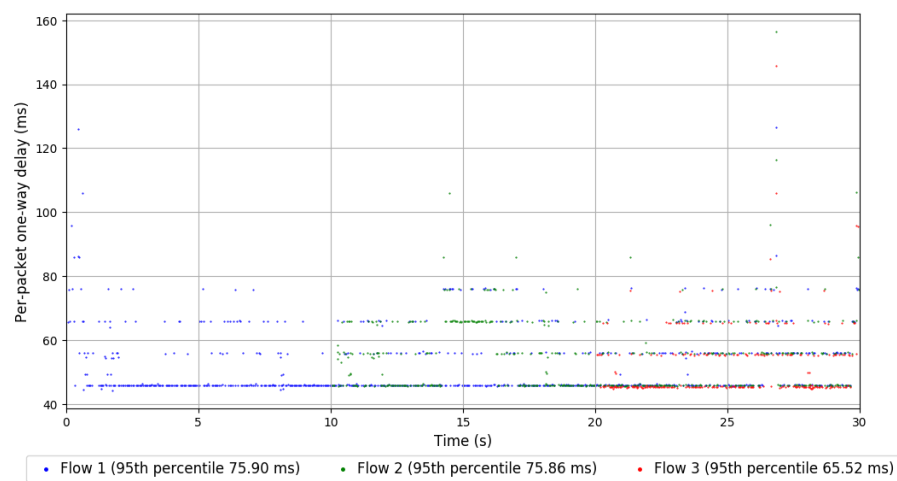
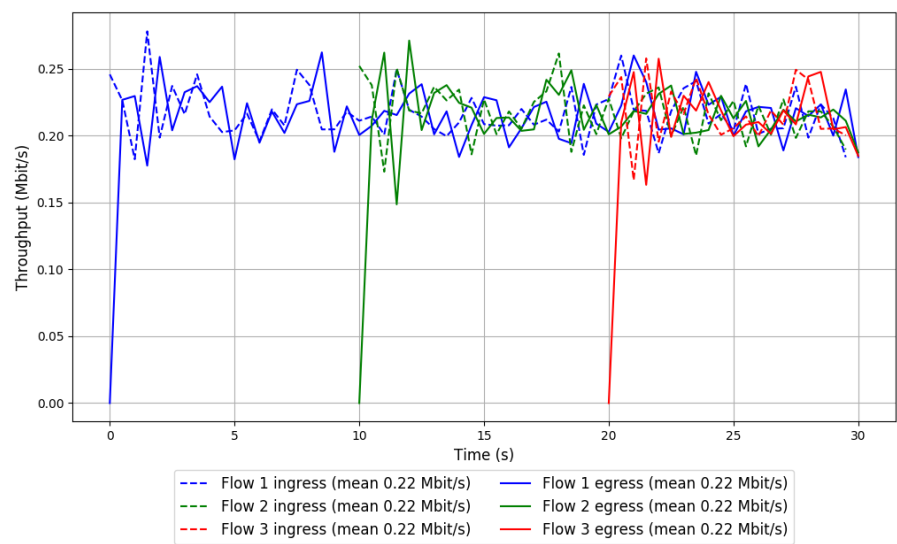
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 65.518 ms

Loss rate: 0.72%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-24 11:39:22

End at: 2018-05-24 11:39:52

Local clock offset: -1.392 ms

Remote clock offset: 4.713 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 79.754 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 79.807 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 79.754 ms

Loss rate: 0.19%

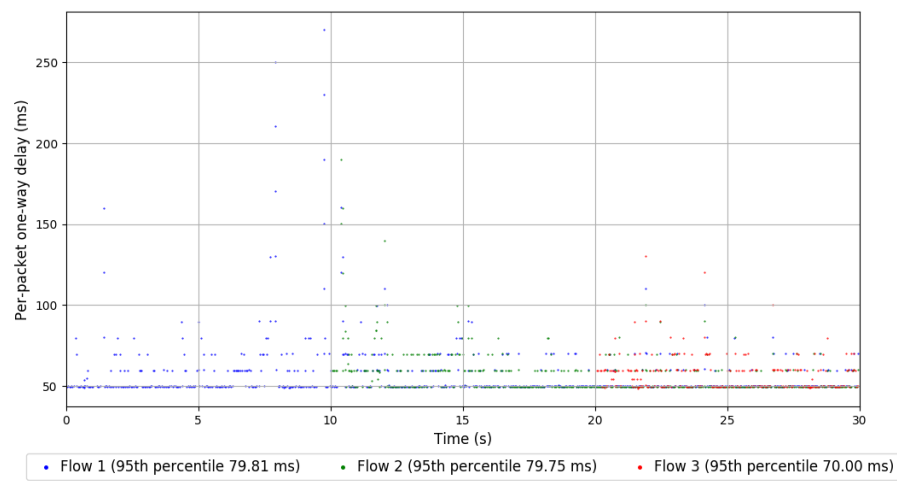
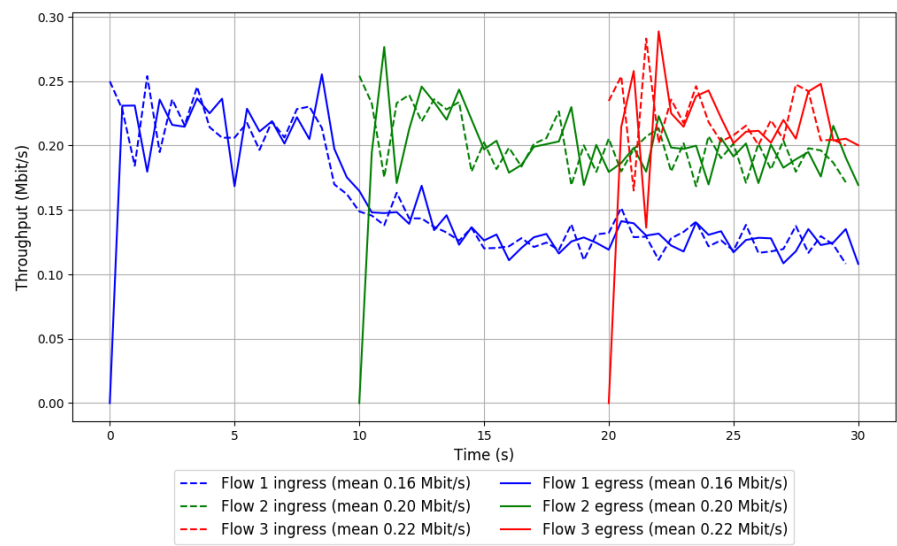
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 69.997 ms

Loss rate: 0.35%

Run 9: Report of SCSReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-24 11:57:08

End at: 2018-05-24 11:57:38

Local clock offset: 3.184 ms

Remote clock offset: 4.74 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 106.311 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 106.585 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.578 ms

Loss rate: 0.19%

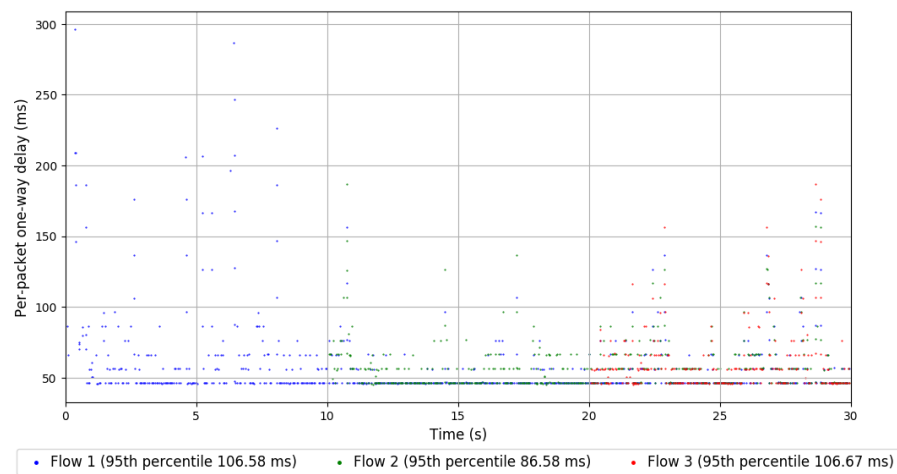
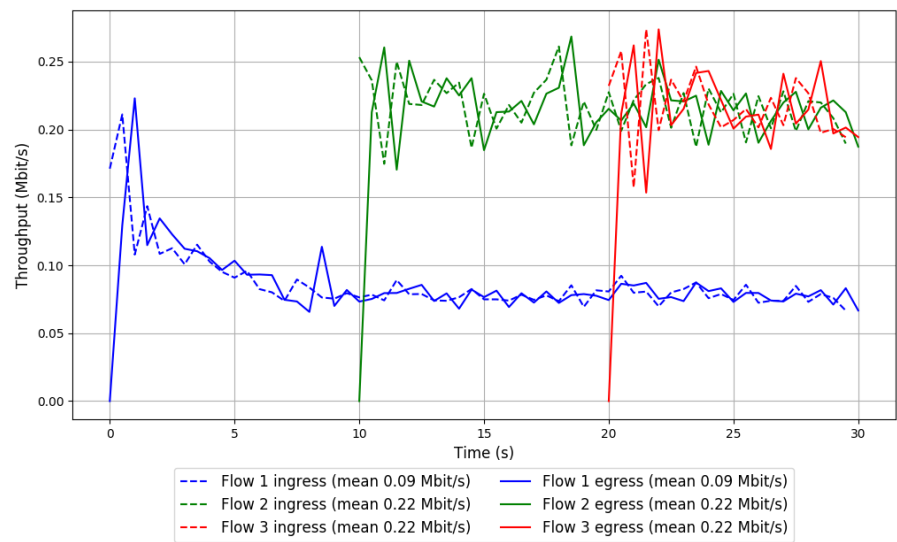
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.675 ms

Loss rate: 0.35%

Run 10: Report of SReAM — Data Link



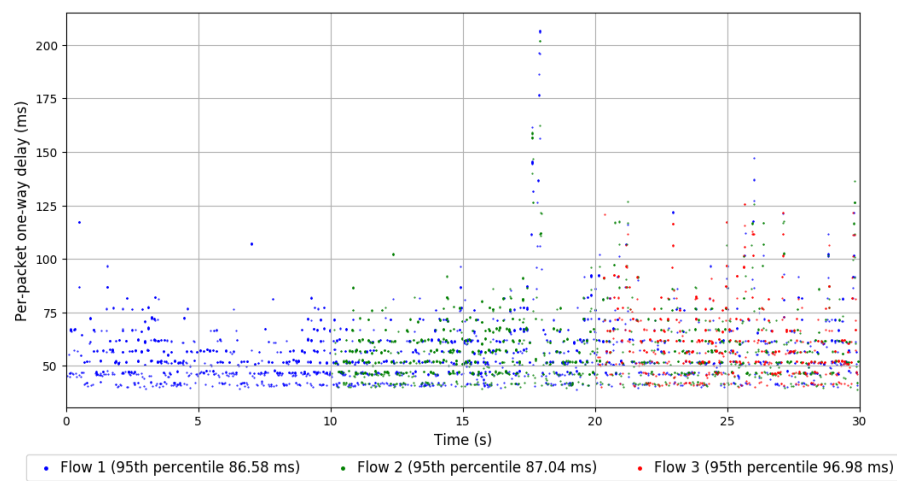
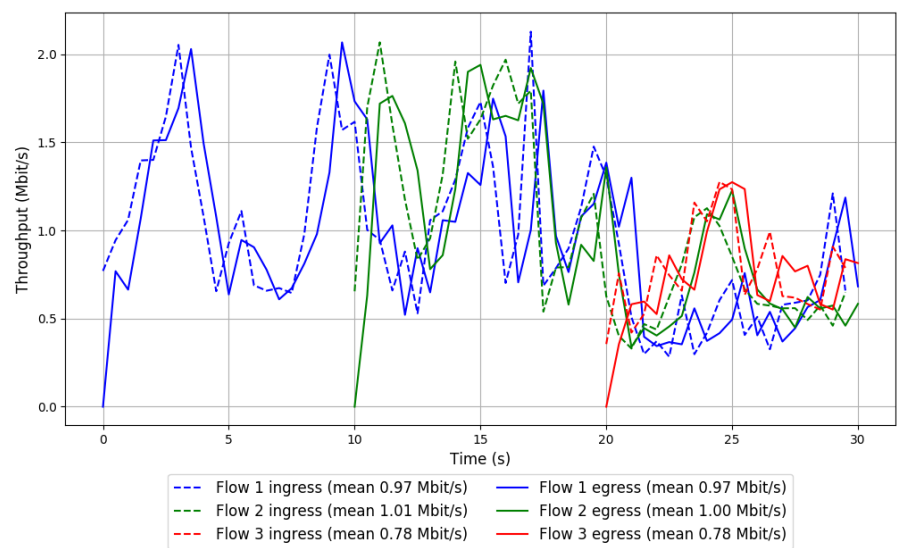
Run 1: Statistics of Sprout

Start at: 2018-05-24 09:29:13  
End at: 2018-05-24 09:29:43  
Local clock offset: 0.089 ms  
Remote clock offset: 11.313 ms

# Below is generated by plot.py at 2018-05-24 12:11:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.90 Mbit/s  
95th percentile per-packet one-way delay: 91.261 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 0.97 Mbit/s  
95th percentile per-packet one-way delay: 86.579 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.00 Mbit/s  
95th percentile per-packet one-way delay: 87.036 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 0.78 Mbit/s  
95th percentile per-packet one-way delay: 96.983 ms  
Loss rate: 0.29%



Run 1: Report of Sprout — Data Link

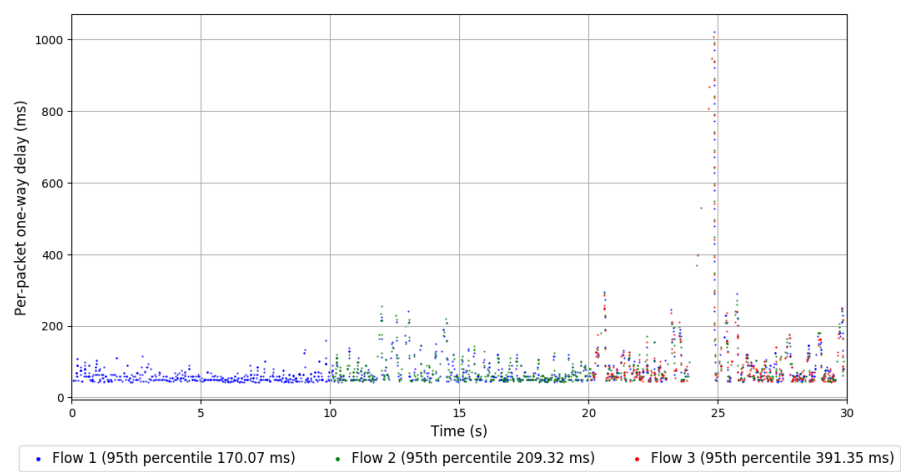
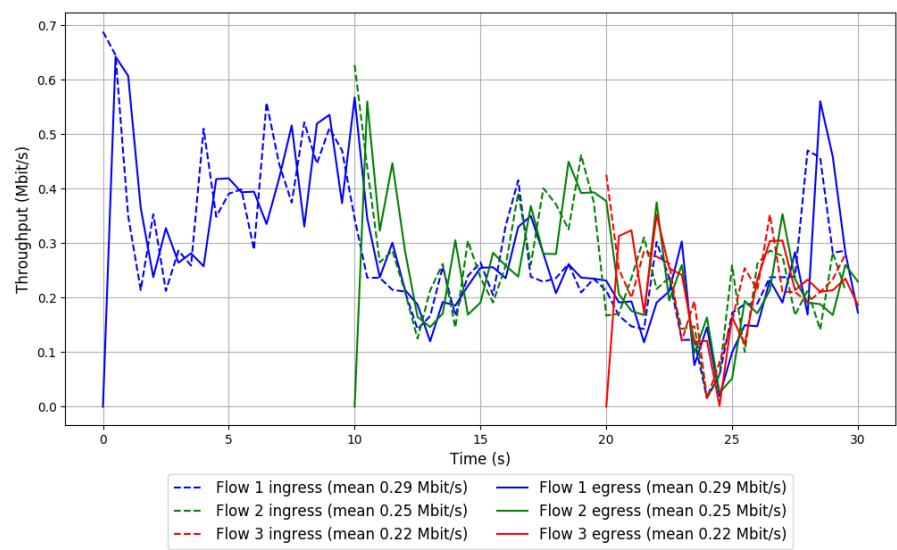


Run 2: Statistics of Sprout

Start at: 2018-05-24 09:46:47  
End at: 2018-05-24 09:47:17  
Local clock offset: -2.765 ms  
Remote clock offset: 10.851 ms

```
# Below is generated by plot.py at 2018-05-24 12:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 209.323 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 170.071 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 209.323 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 391.349 ms
Loss rate: 2.65%
```

Run 2: Report of Sprout — Data Link



### Run 3: Statistics of Sprout

Start at: 2018-05-24 10:04:30

End at: 2018-05-24 10:05:00

Local clock offset: 1.8 ms

Remote clock offset: 1.887 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 87.314 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 87.835 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 82.876 ms

Loss rate: 0.44%

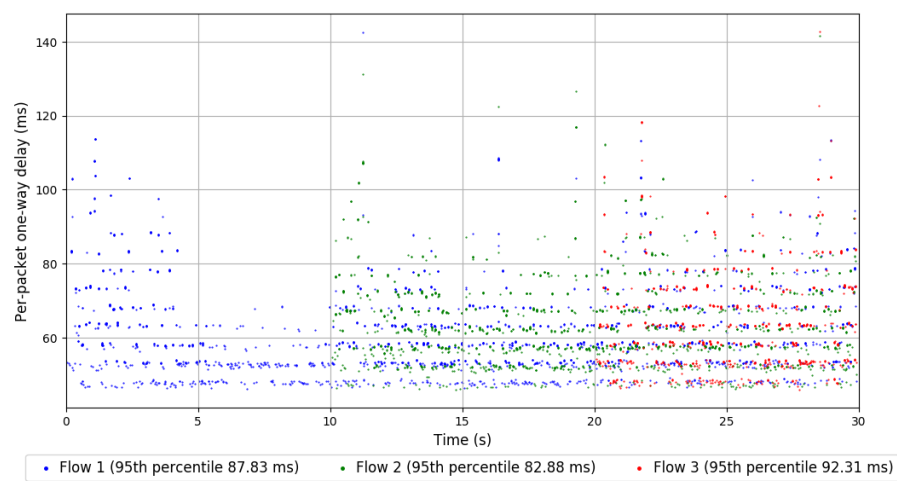
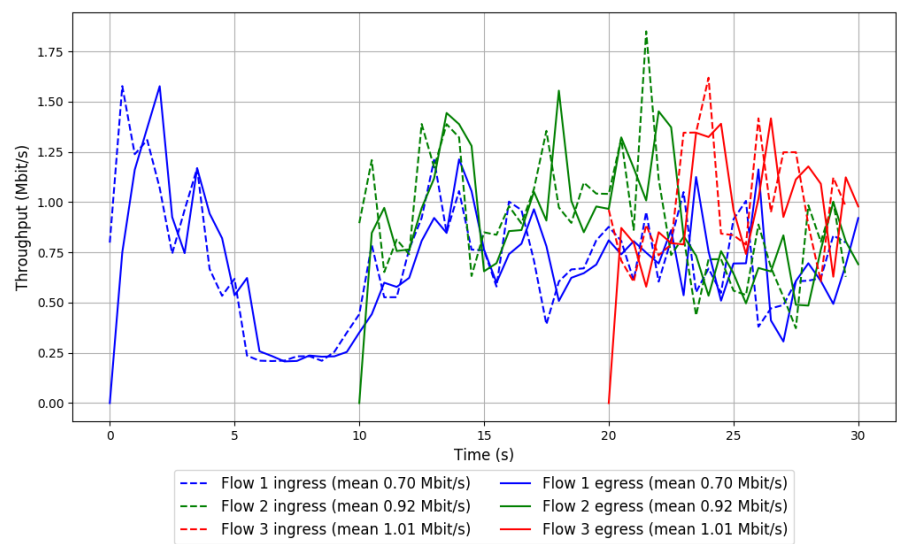
-- Flow 3:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 92.307 ms

Loss rate: 0.01%

Run 3: Report of Sprout — Data Link

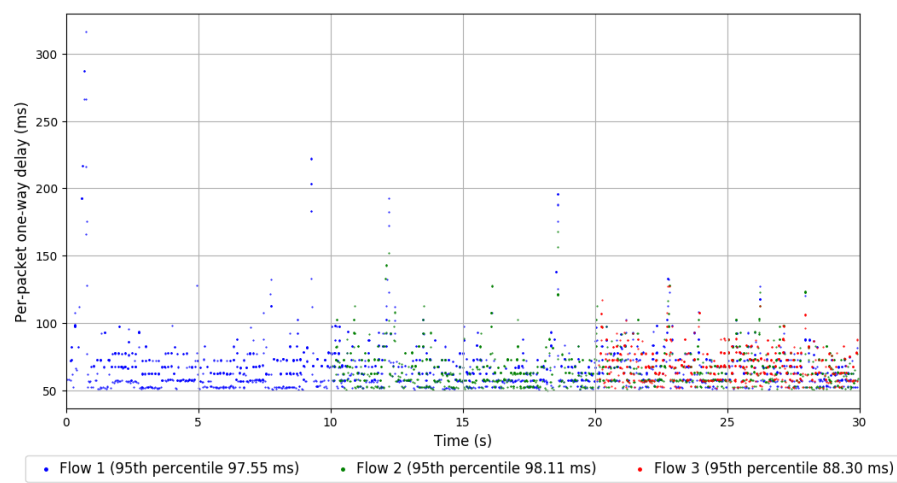
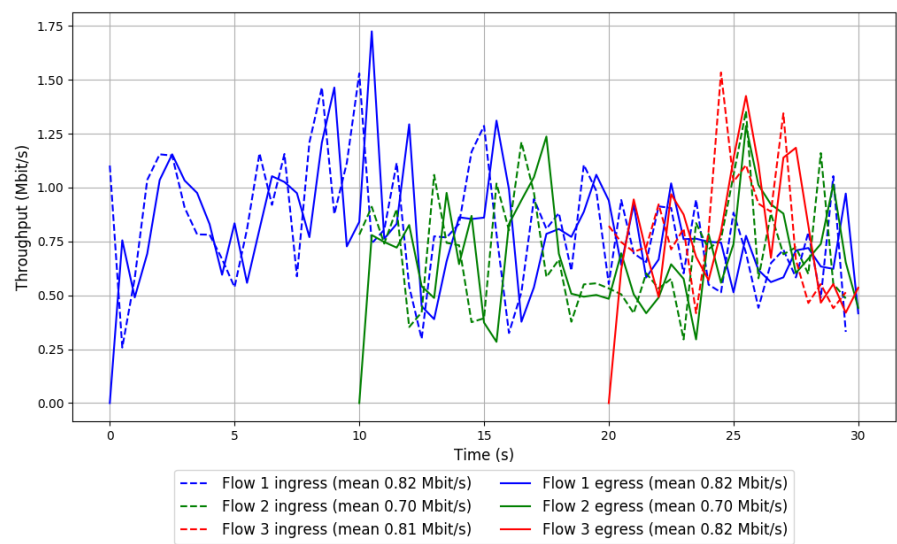


#### Run 4: Statistics of Sprout

Start at: 2018-05-24 10:22:12  
End at: 2018-05-24 10:22:42  
Local clock offset: -2.424 ms  
Remote clock offset: -0.686 ms

```
# Below is generated by plot.py at 2018-05-24 12:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 97.387 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 97.553 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 98.108 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 88.298 ms
Loss rate: 0.01%
```

Run 4: Report of Sprout — Data Link



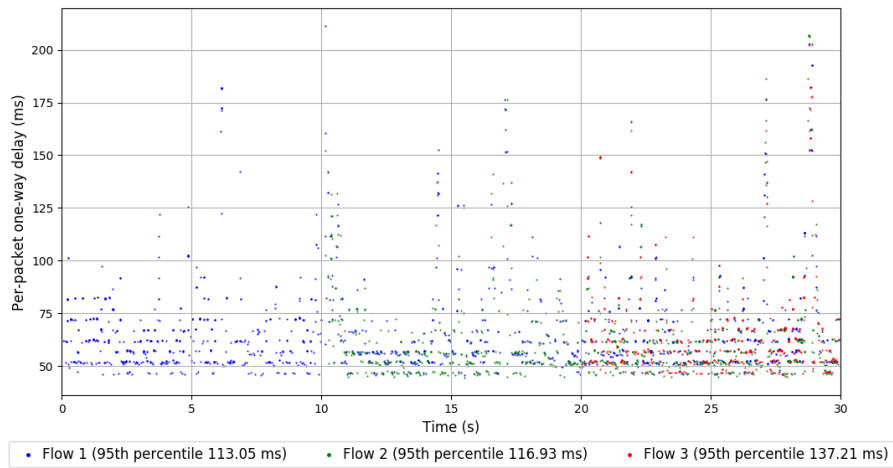
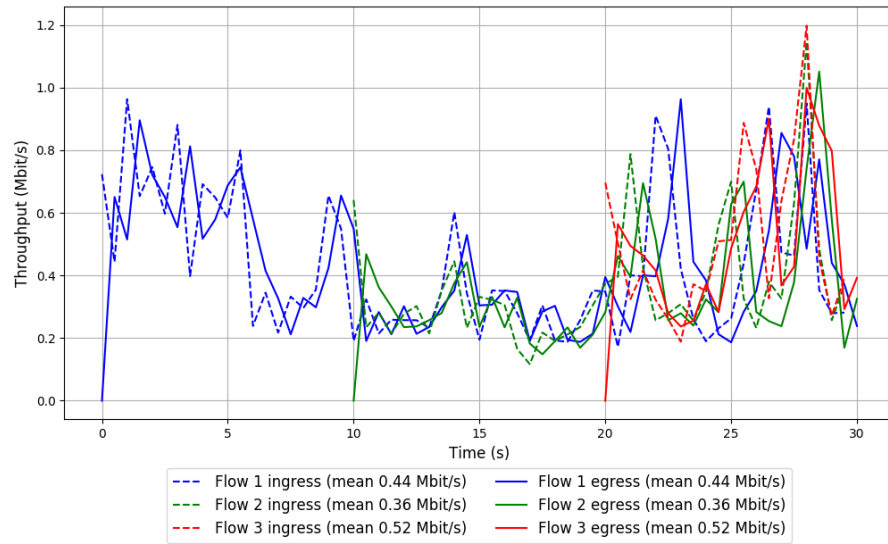
Run 5: Statistics of Sprout

Start at: 2018-05-24 10:39:47  
End at: 2018-05-24 10:40:17  
Local clock offset: 2.255 ms  
Remote clock offset: -4.785 ms

```
# Below is generated by plot.py at 2018-05-24 12:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 116.352 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 113.052 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 116.930 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 137.210 ms
Loss rate: 0.02%
```



## Run 5: Report of Sprout — Data Link

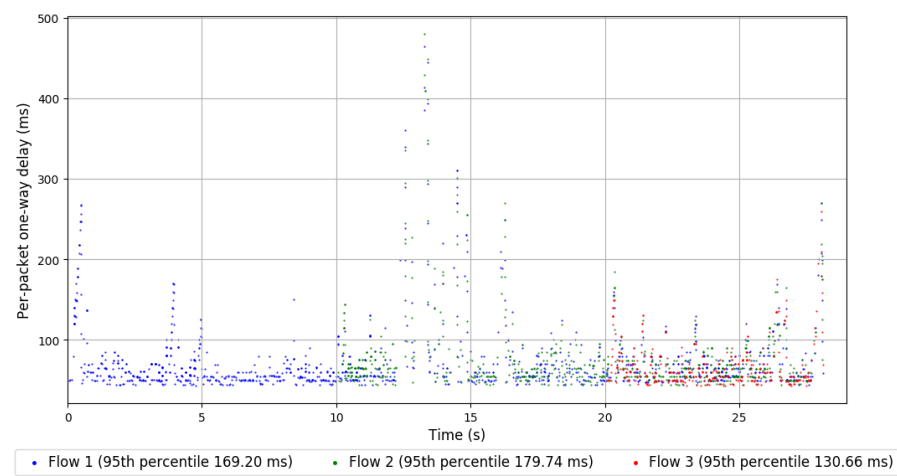
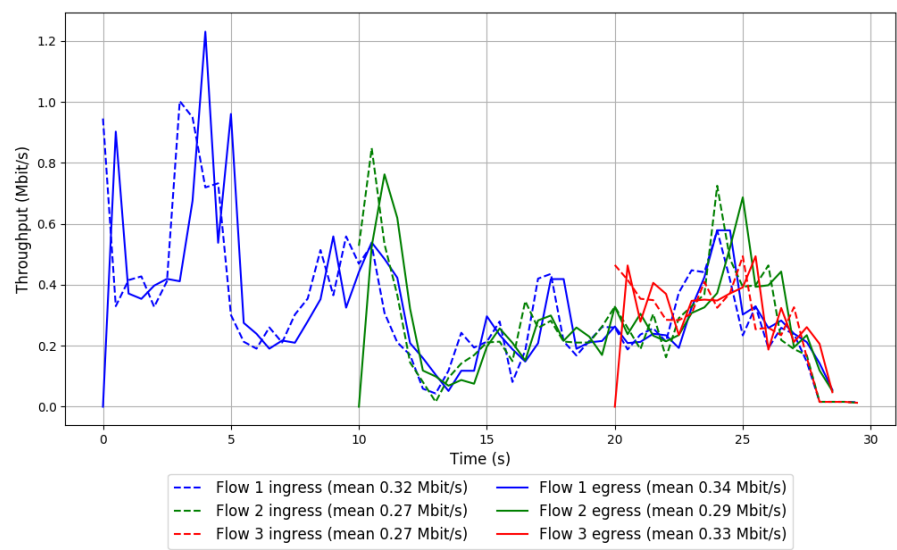


Run 6: Statistics of Sprout

Start at: 2018-05-24 10:57:22  
End at: 2018-05-24 10:57:52  
Local clock offset: 2.394 ms  
Remote clock offset: -1.3 ms

```
# Below is generated by plot.py at 2018-05-24 12:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 164.503 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 169.197 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 179.744 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 130.665 ms
Loss rate: 1.09%
```

Run 6: Report of Sprout — Data Link

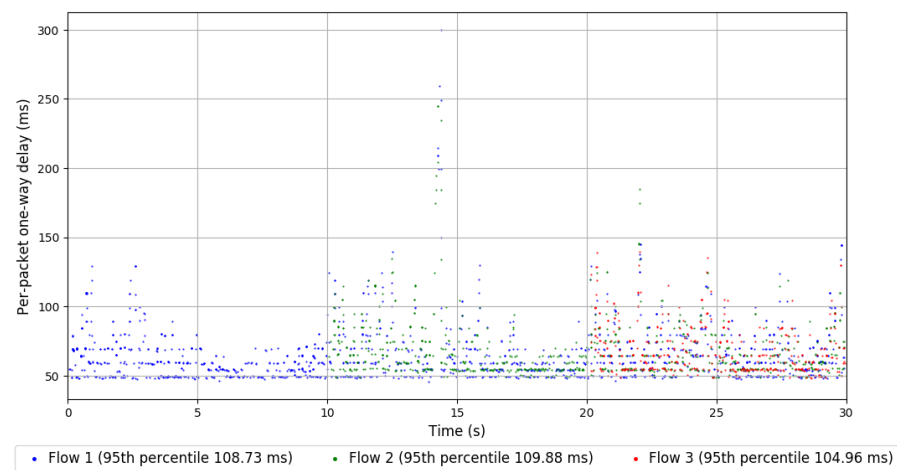
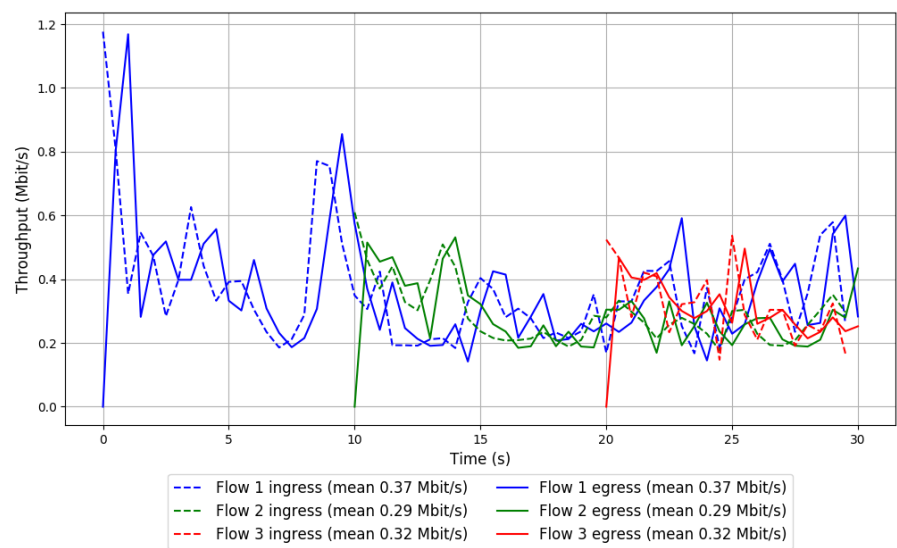


Run 7: Statistics of Sprout

Start at: 2018-05-24 11:14:59  
End at: 2018-05-24 11:15:29  
Local clock offset: -0.785 ms  
Remote clock offset: 6.14 ms

```
# Below is generated by plot.py at 2018-05-24 12:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 108.723 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 108.726 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 109.881 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 104.958 ms
Loss rate: 0.05%
```

Run 7: Report of Sprout — Data Link

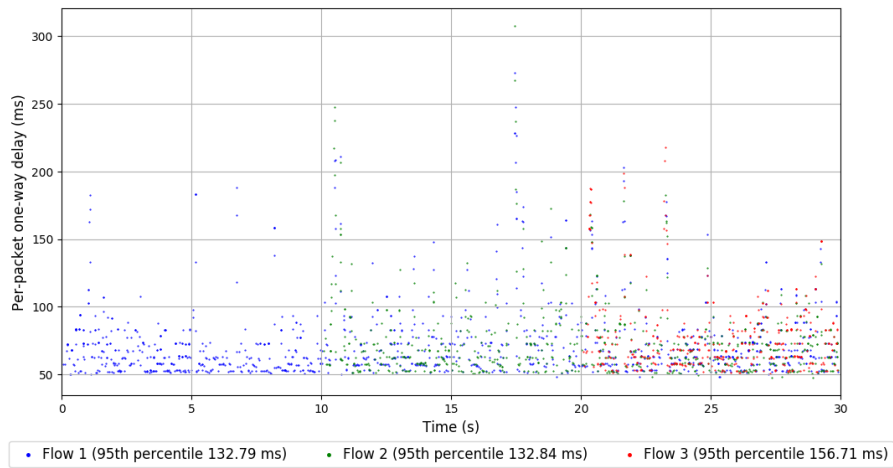
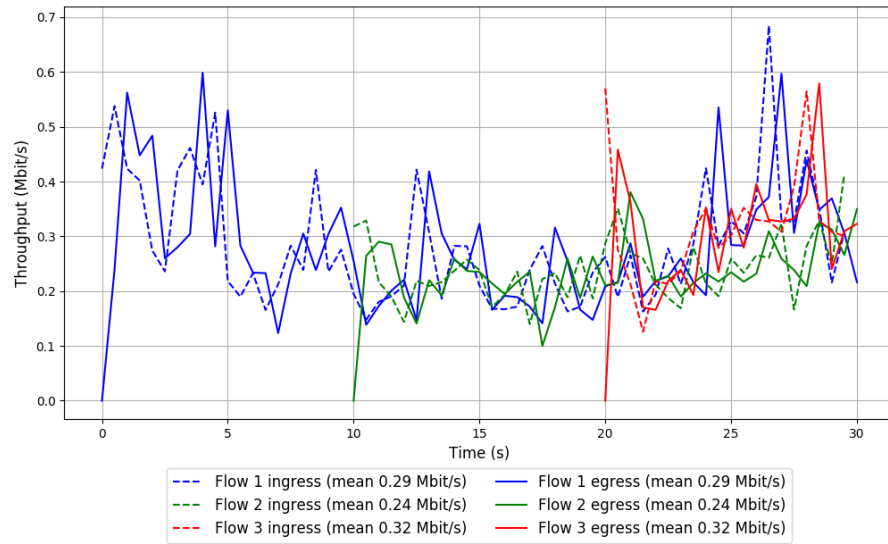


Run 8: Statistics of Sprout

Start at: 2018-05-24 11:32:42  
End at: 2018-05-24 11:33:12  
Local clock offset: -2.391 ms  
Remote clock offset: 6.075 ms

```
# Below is generated by plot.py at 2018-05-24 12:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 138.078 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 132.789 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 132.845 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 156.711 ms
Loss rate: 1.06%
```

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-24 11:50:32

End at: 2018-05-24 11:51:02

Local clock offset: 0.29 ms

Remote clock offset: 2.696 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 179.562 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 155.162 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 178.603 ms

Loss rate: 0.20%

-- Flow 3:

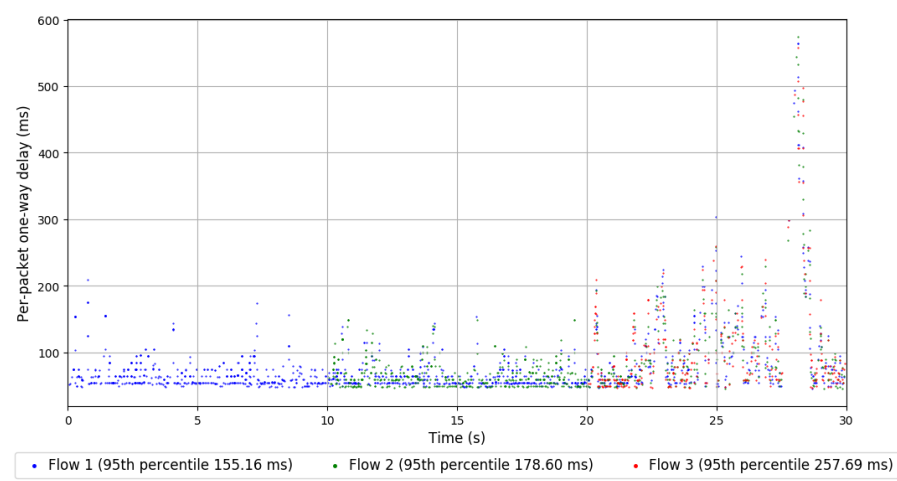
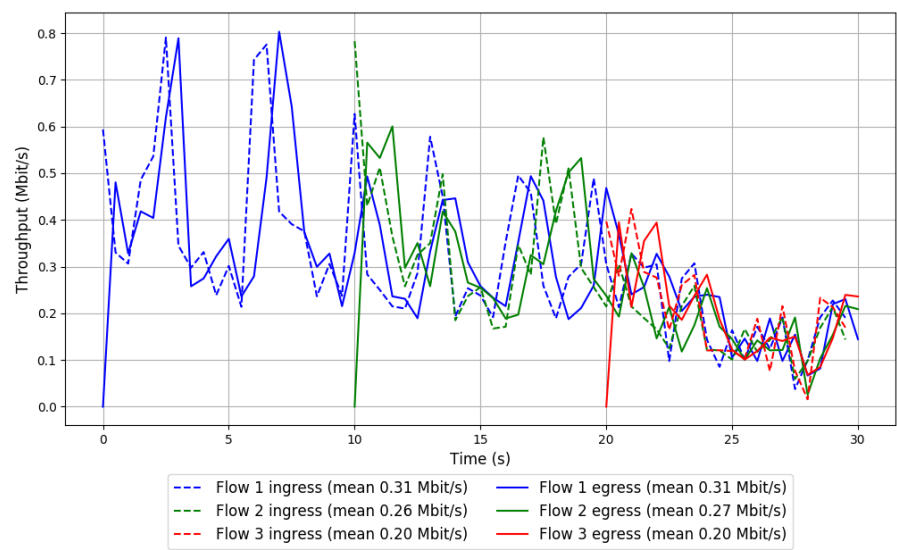
Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 257.695 ms

Loss rate: 0.04%



Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-24 12:08:16

End at: 2018-05-24 12:08:46

Local clock offset: 0.725 ms

Remote clock offset: 2.801 ms

# Below is generated by plot.py at 2018-05-24 12:11:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.19 Mbit/s

95th percentile per-packet one-way delay: 94.435 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 100.354 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 88.913 ms

Loss rate: 0.01%

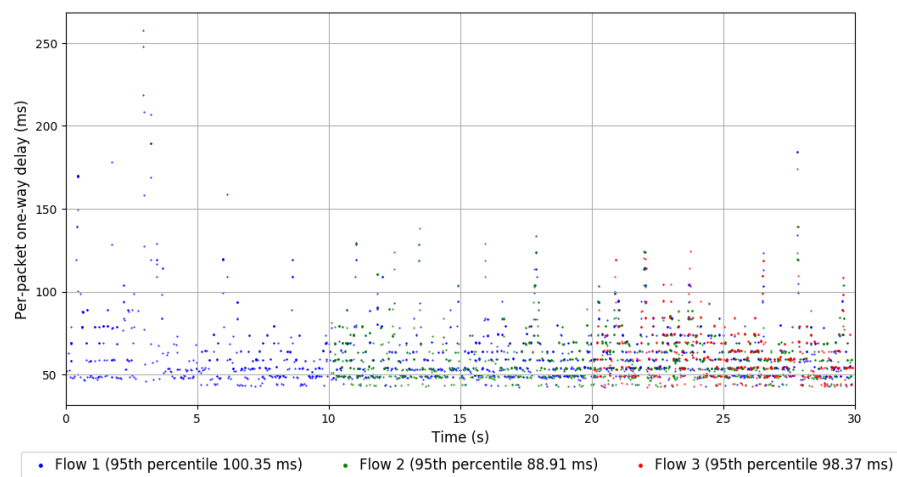
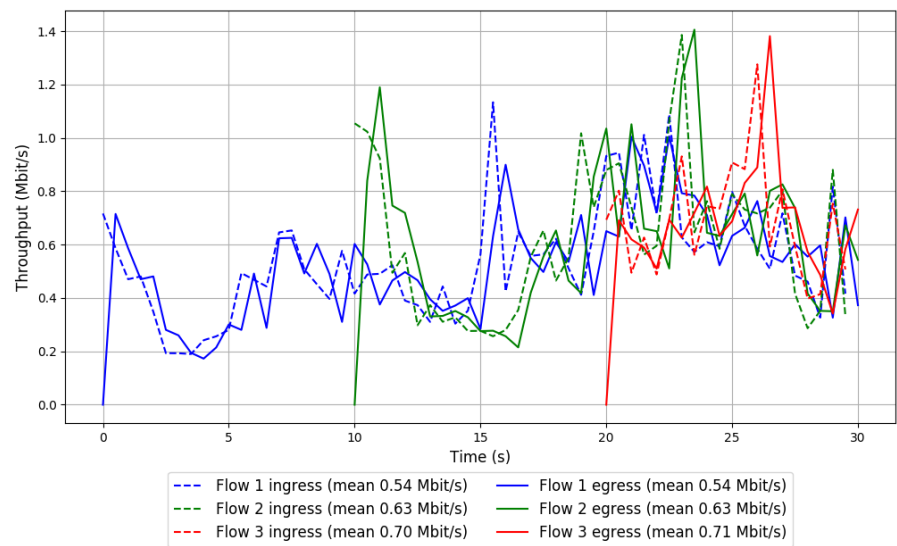
-- Flow 3:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 98.372 ms

Loss rate: 0.14%

Run 10: Report of Sprout — Data Link

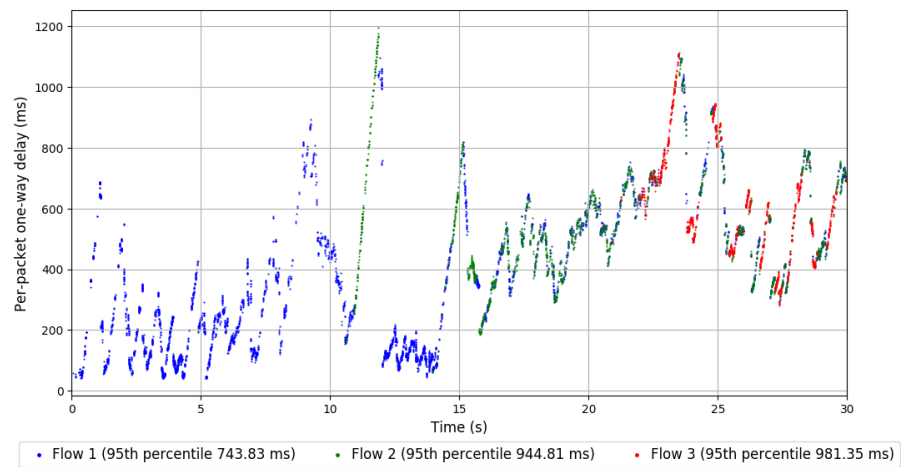
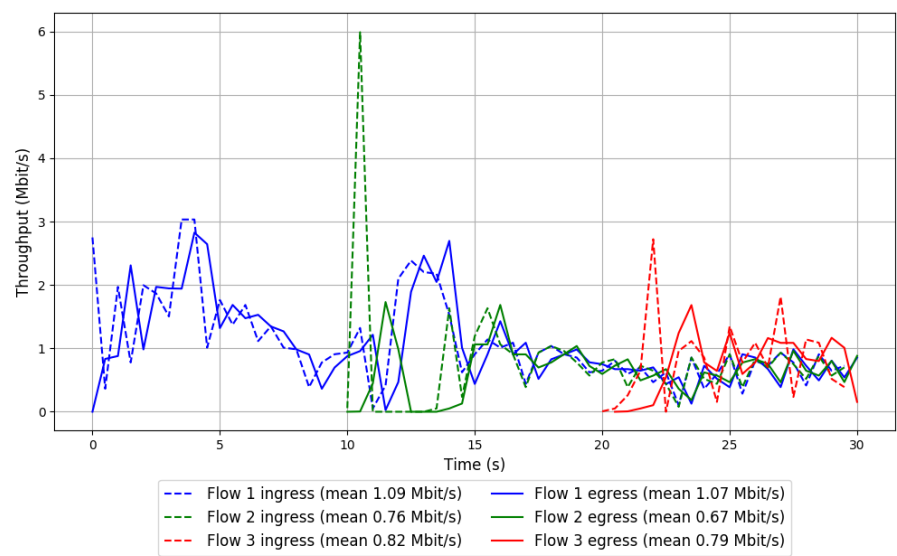


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-24 09:13:47  
End at: 2018-05-24 09:14:17  
Local clock offset: 0.36 ms  
Remote clock offset: -0.601 ms

# Below is generated by plot.py at 2018-05-24 12:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.76 Mbit/s  
95th percentile per-packet one-way delay: 873.429 ms  
Loss rate: 5.67%  
-- Flow 1:  
Average throughput: 1.07 Mbit/s  
95th percentile per-packet one-way delay: 743.826 ms  
Loss rate: 2.26%  
-- Flow 2:  
Average throughput: 0.67 Mbit/s  
95th percentile per-packet one-way delay: 944.808 ms  
Loss rate: 13.02%  
-- Flow 3:  
Average throughput: 0.79 Mbit/s  
95th percentile per-packet one-way delay: 981.350 ms  
Loss rate: 5.68%

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

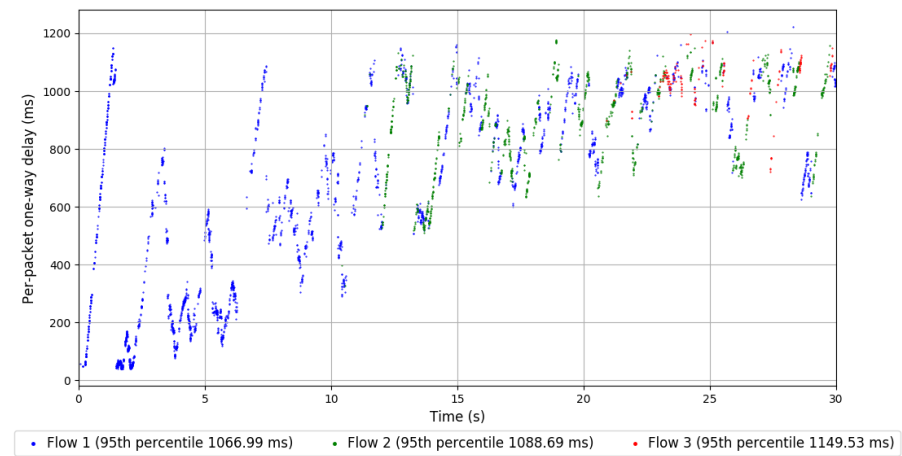
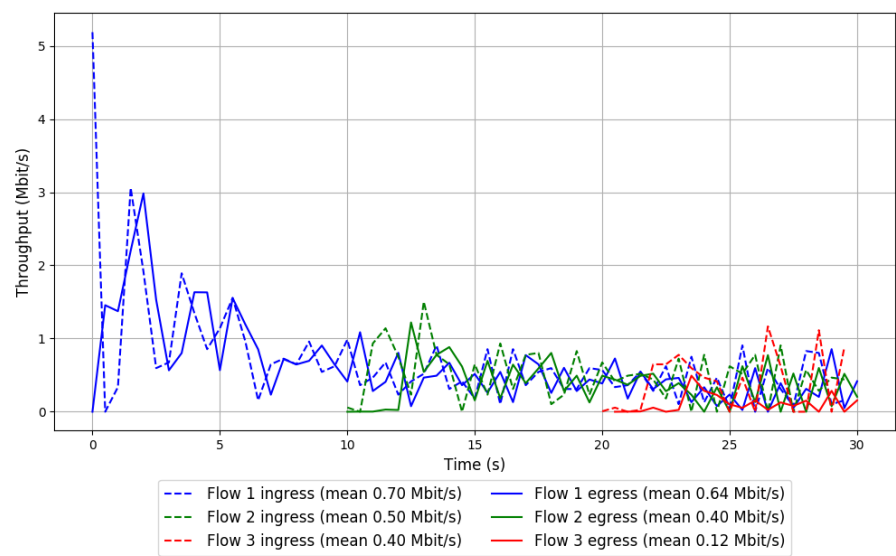


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 09:31:24  
End at: 2018-05-24 09:31:54  
Local clock offset: 1.006 ms  
Remote clock offset: 12.799 ms

# Below is generated by plot.py at 2018-05-24 12:11:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.94 Mbit/s  
95th percentile per-packet one-way delay: 1080.466 ms  
Loss rate: 19.45%  
-- Flow 1:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 1066.989 ms  
Loss rate: 8.12%  
-- Flow 2:  
Average throughput: 0.40 Mbit/s  
95th percentile per-packet one-way delay: 1088.687 ms  
Loss rate: 22.53%  
-- Flow 3:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 1149.533 ms  
Loss rate: 71.74%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 09:49:00

End at: 2018-05-24 09:49:30

Local clock offset: -2.581 ms

Remote clock offset: 7.971 ms

# Below is generated by plot.py at 2018-05-24 12:11:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 983.700 ms

Loss rate: 3.98%

-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 904.150 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 1023.420 ms

Loss rate: 6.01%

-- Flow 3:

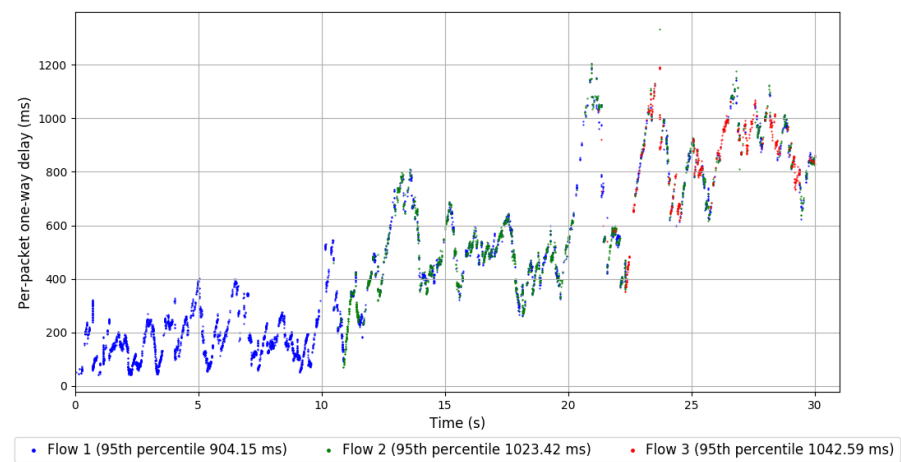
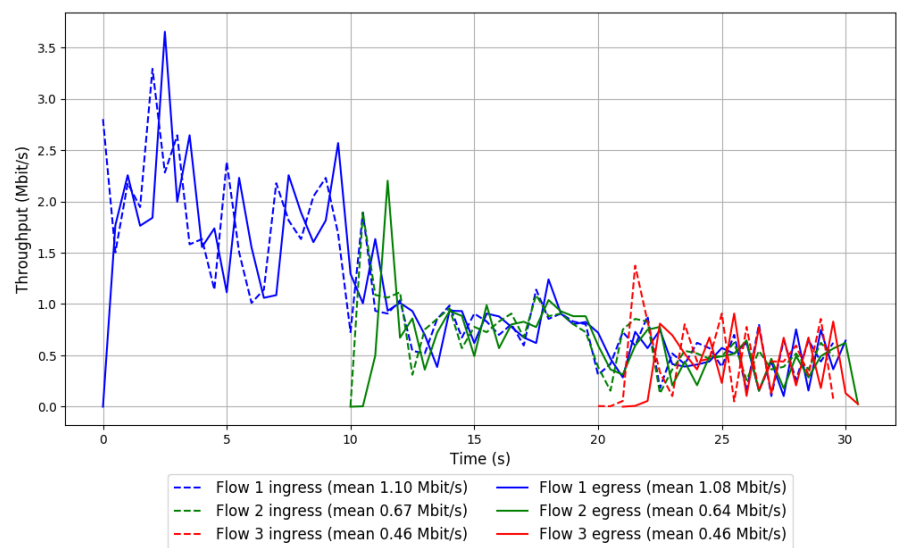
Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 1042.586 ms

Loss rate: 11.54%



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

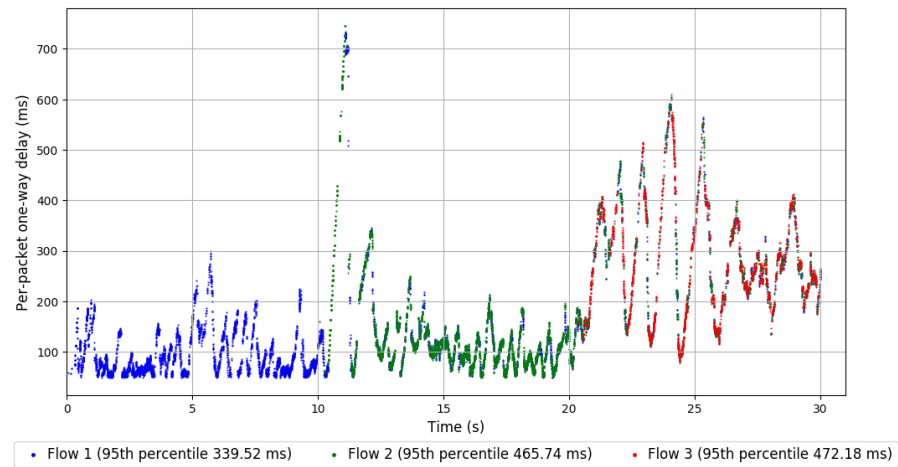
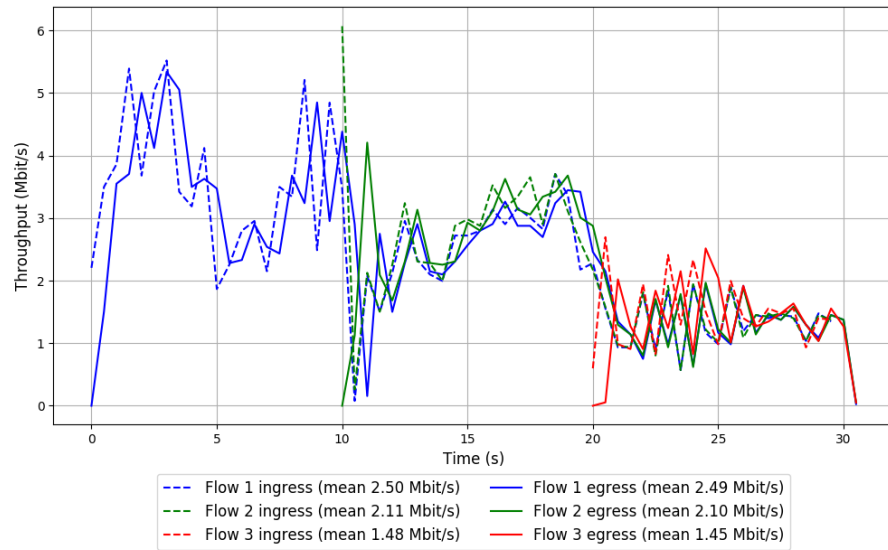


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 10:06:42  
End at: 2018-05-24 10:07:12  
Local clock offset: -7.076 ms  
Remote clock offset: -4.269 ms

# Below is generated by plot.py at 2018-05-24 12:12:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.37 Mbit/s  
95th percentile per-packet one-way delay: 403.162 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 2.49 Mbit/s  
95th percentile per-packet one-way delay: 339.525 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 465.741 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 472.179 ms  
Loss rate: 2.39%

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

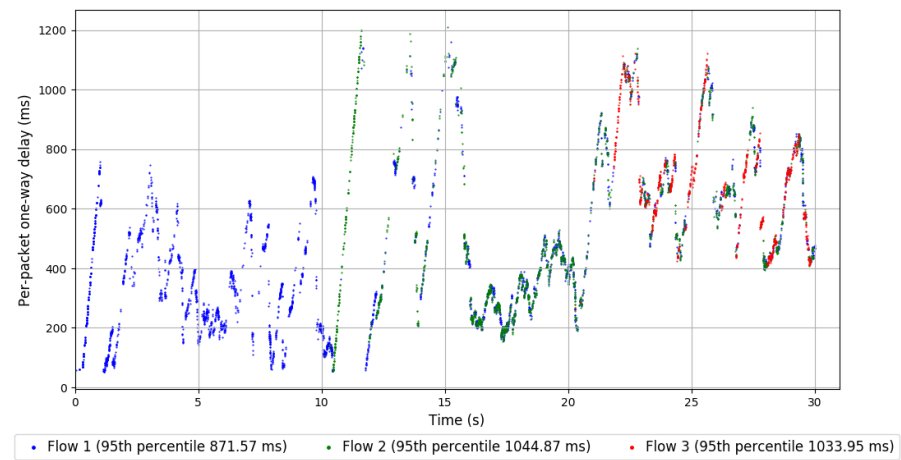
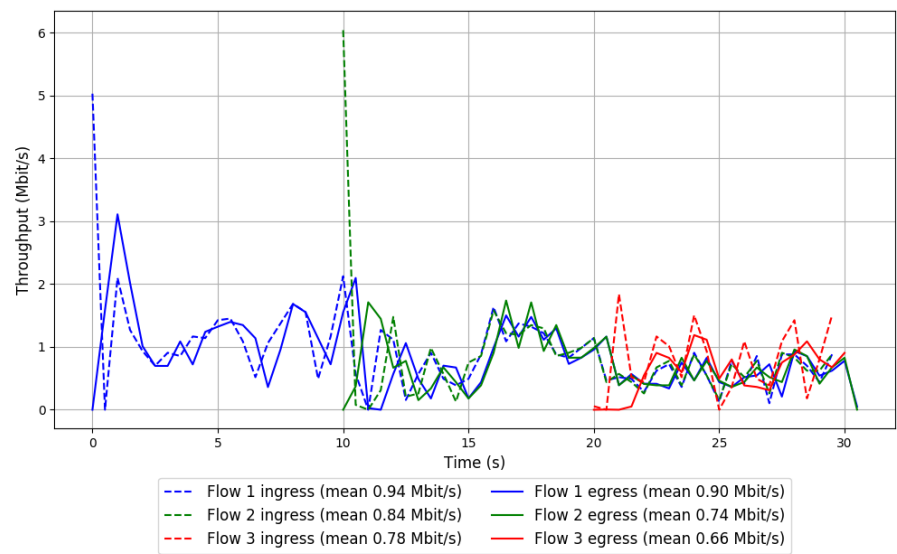


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 10:24:22  
End at: 2018-05-24 10:24:52  
Local clock offset: 0.013 ms  
Remote clock offset: -1.778 ms

# Below is generated by plot.py at 2018-05-24 12:12:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.60 Mbit/s  
95th percentile per-packet one-way delay: 990.592 ms  
Loss rate: 8.85%  
-- Flow 1:  
Average throughput: 0.90 Mbit/s  
95th percentile per-packet one-way delay: 871.573 ms  
Loss rate: 4.63%  
-- Flow 2:  
Average throughput: 0.74 Mbit/s  
95th percentile per-packet one-way delay: 1044.868 ms  
Loss rate: 12.15%  
-- Flow 3:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 1033.953 ms  
Loss rate: 17.16%

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

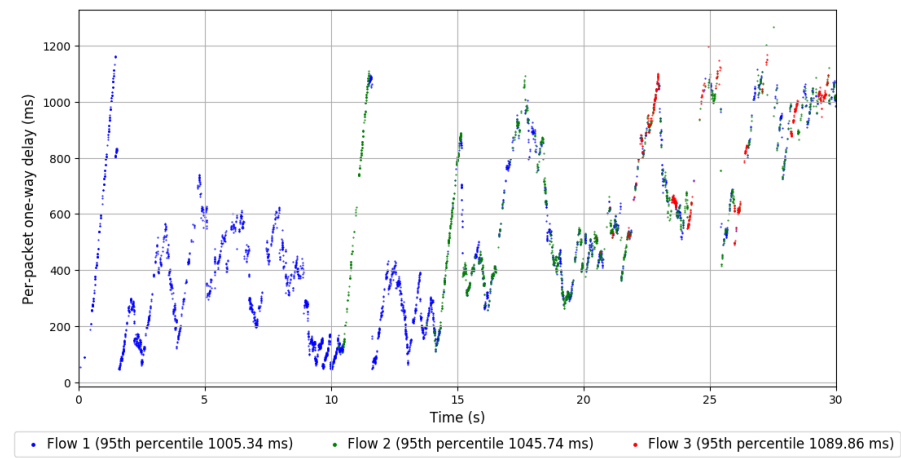
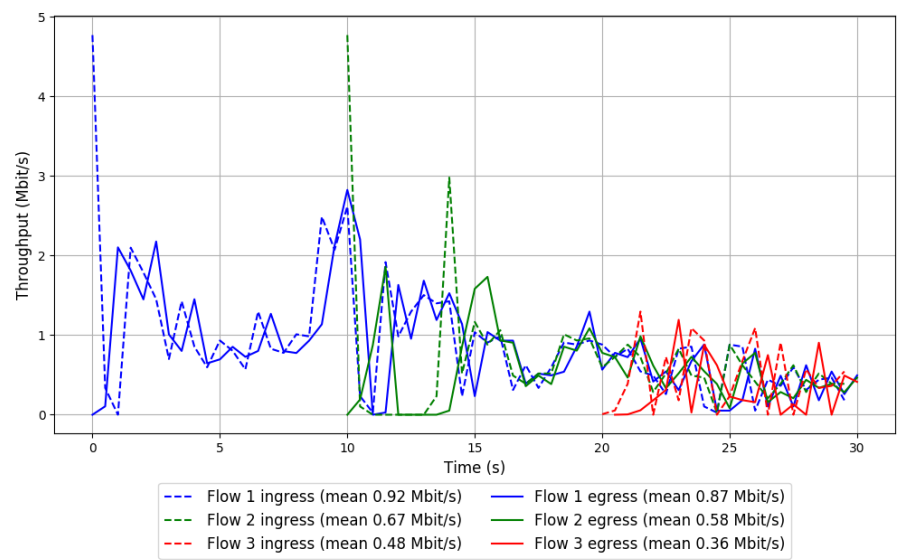


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 10:42:00  
End at: 2018-05-24 10:42:30  
Local clock offset: -1.026 ms  
Remote clock offset: -7.091 ms

# Below is generated by plot.py at 2018-05-24 12:12:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.36 Mbit/s  
95th percentile per-packet one-way delay: 1037.148 ms  
Loss rate: 10.70%  
-- Flow 1:  
Average throughput: 0.87 Mbit/s  
95th percentile per-packet one-way delay: 1005.338 ms  
Loss rate: 5.87%  
-- Flow 2:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 1045.739 ms  
Loss rate: 13.72%  
-- Flow 3:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 1089.855 ms  
Loss rate: 30.42%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 10:59:33

End at: 2018-05-24 11:00:03

Local clock offset: 0.353 ms

Remote clock offset: 3.511 ms

# Below is generated by plot.py at 2018-05-24 12:12:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 1112.917 ms

Loss rate: 38.16%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1094.933 ms

Loss rate: 25.76%

-- Flow 2:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 1118.795 ms

Loss rate: 29.80%

-- Flow 3:

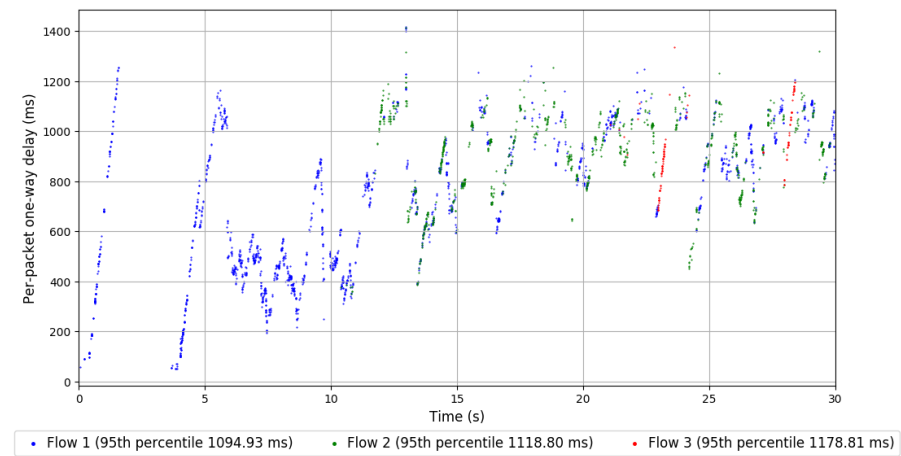
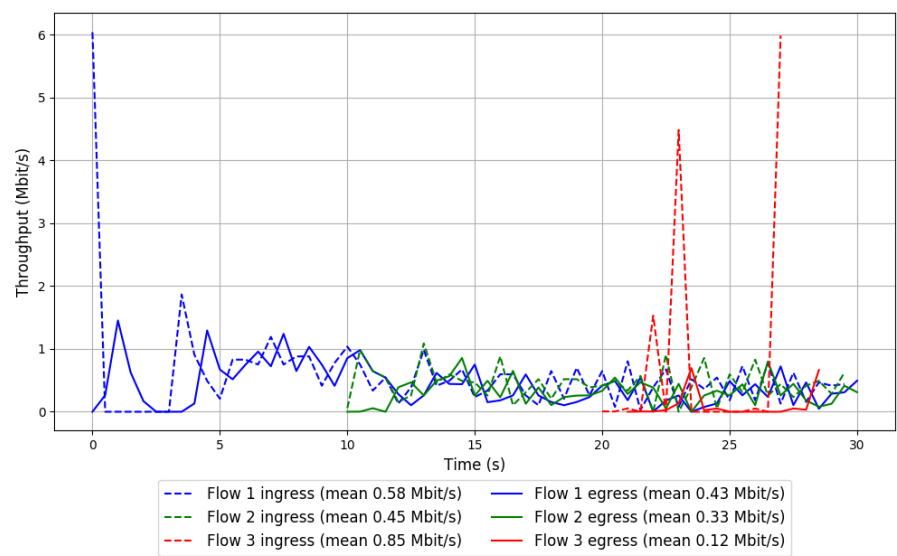
Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 1178.809 ms

Loss rate: 86.08%



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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 11:17:11

End at: 2018-05-24 11:17:41

Local clock offset: 2.899 ms

Remote clock offset: 5.595 ms

# Below is generated by plot.py at 2018-05-24 12:12:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 700.718 ms

Loss rate: 5.74%

-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 511.645 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 572.904 ms

Loss rate: 8.10%

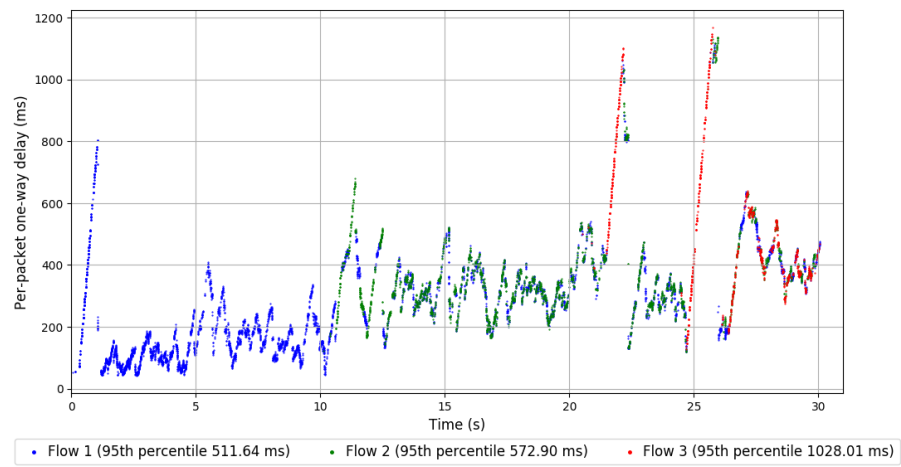
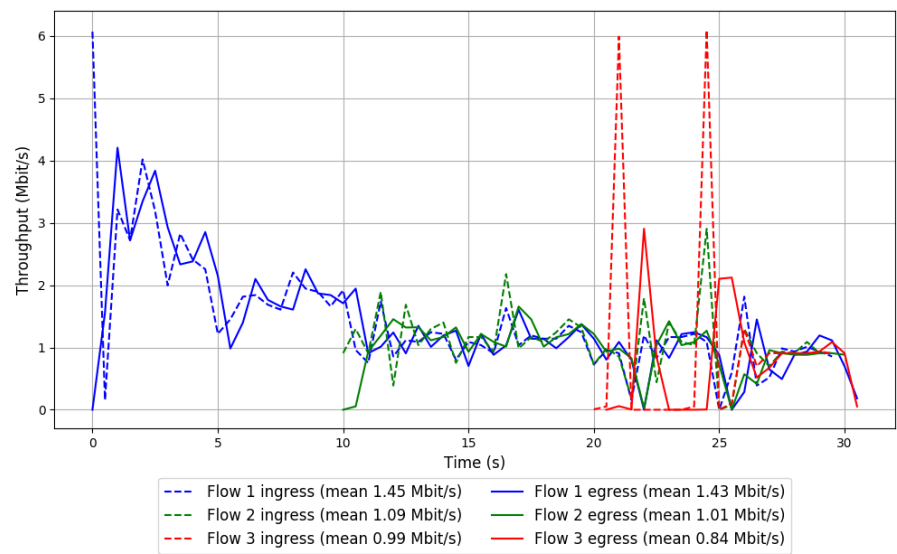
-- Flow 3:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 1028.013 ms

Loss rate: 18.93%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-24 11:34:53

End at: 2018-05-24 11:35:23

Local clock offset: -0.557 ms

Remote clock offset: 4.342 ms

# Below is generated by plot.py at 2018-05-24 12:12:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 809.138 ms

Loss rate: 3.75%

-- Flow 1:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 746.304 ms

Loss rate: 1.96%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 721.350 ms

Loss rate: 2.41%

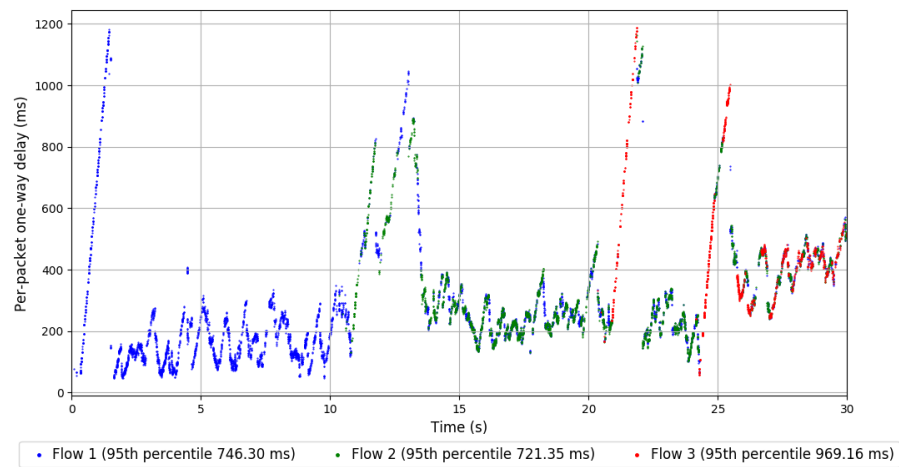
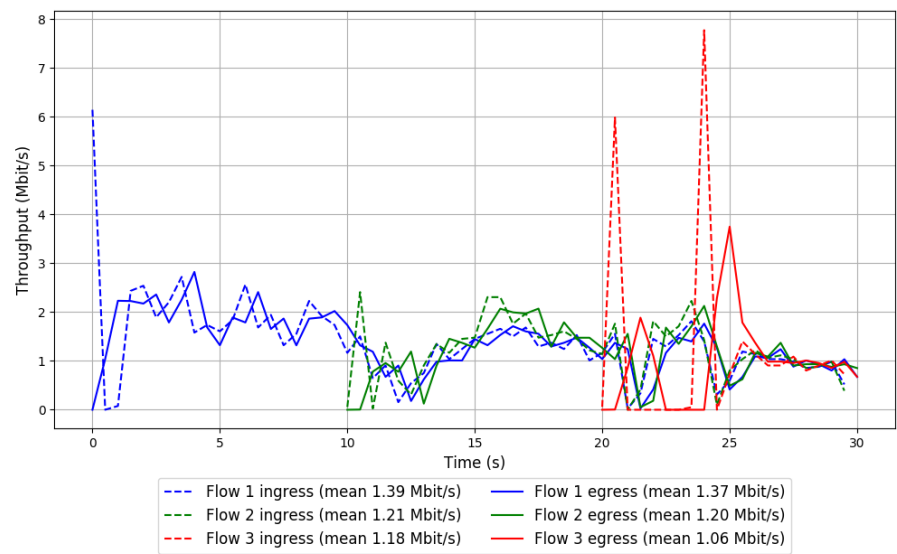
-- Flow 3:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 969.161 ms

Loss rate: 12.86%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 11:52:43

End at: 2018-05-24 11:53:13

Local clock offset: 1.506 ms

Remote clock offset: 2.949 ms

# Below is generated by plot.py at 2018-05-24 12:12:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 1067.499 ms

Loss rate: 25.16%

-- Flow 1:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 1042.821 ms

Loss rate: 12.55%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 1089.631 ms

Loss rate: 30.91%

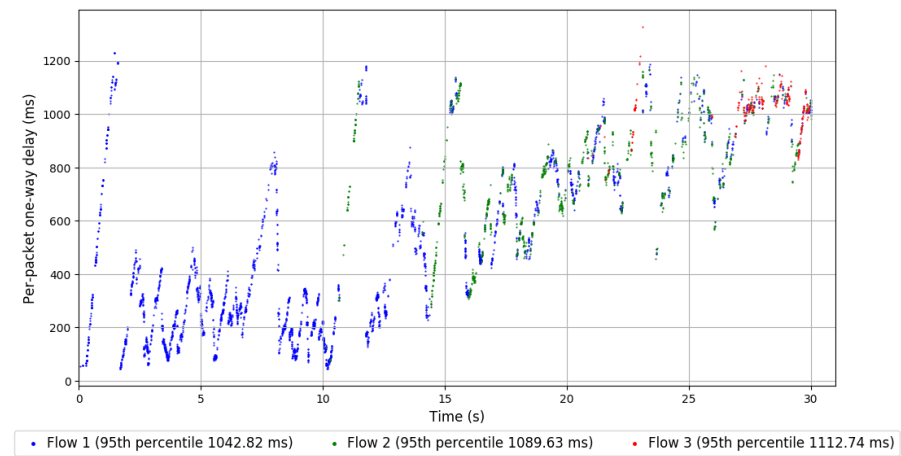
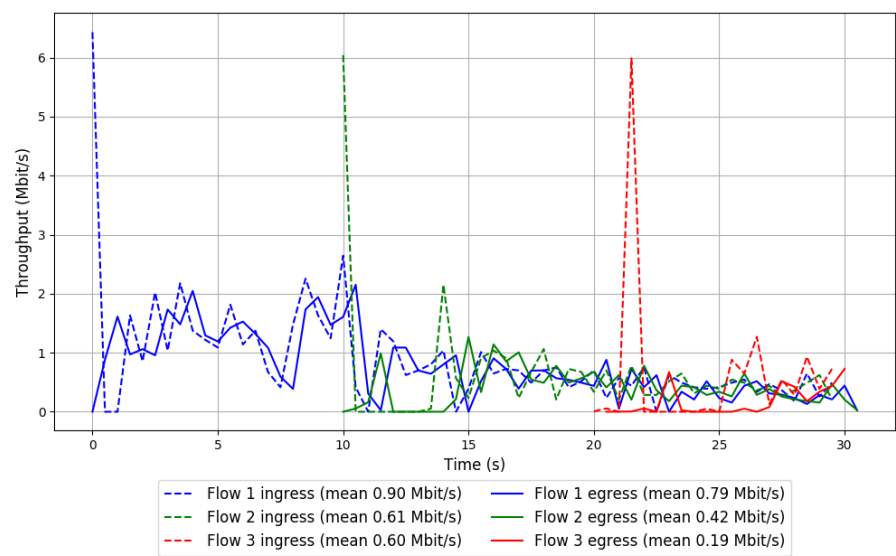
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 1112.740 ms

Loss rate: 70.51%

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



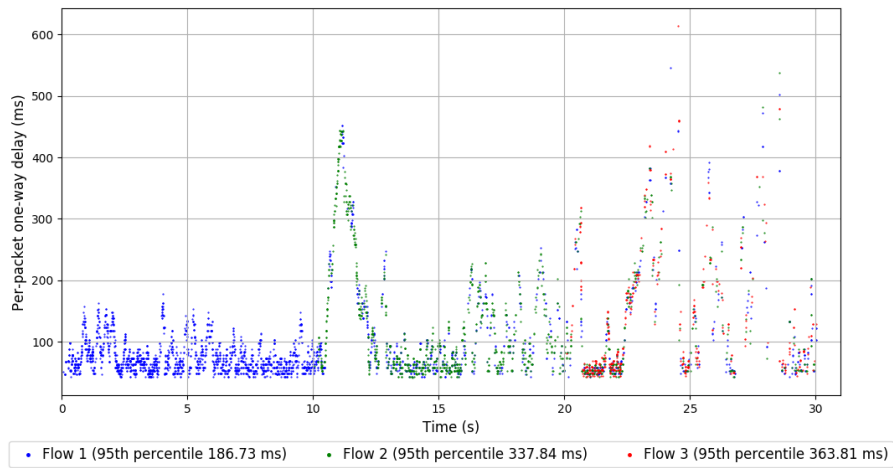
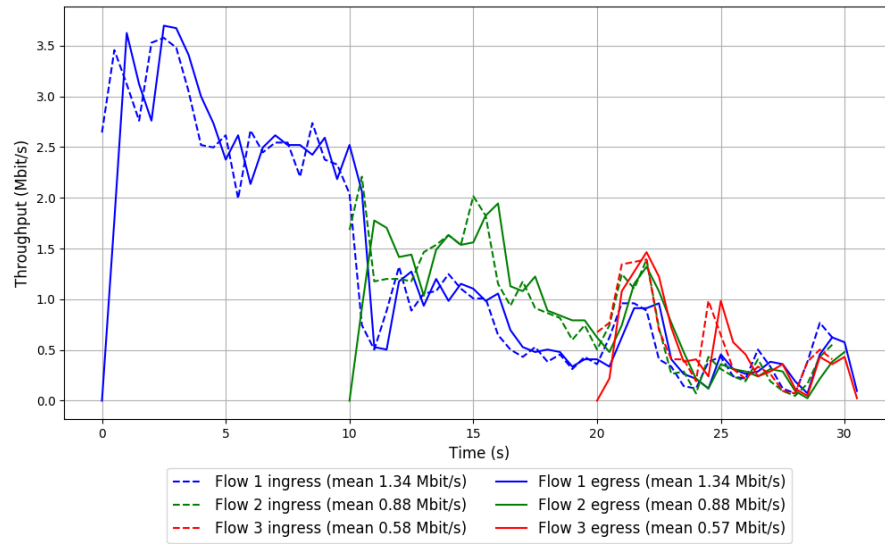
Run 1: Statistics of TCP Vegas

Start at: 2018-05-24 09:28:07  
End at: 2018-05-24 09:28:37  
Local clock offset: -0.74 ms  
Remote clock offset: 10.713 ms

# Below is generated by plot.py at 2018-05-24 12:12:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.12 Mbit/s  
95th percentile per-packet one-way delay: 282.983 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 1.34 Mbit/s  
95th percentile per-packet one-way delay: 186.734 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 0.88 Mbit/s  
95th percentile per-packet one-way delay: 337.841 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 0.57 Mbit/s  
95th percentile per-packet one-way delay: 363.811 ms  
Loss rate: 1.25%



# Run 1: Report of TCP Vegas — Data Link

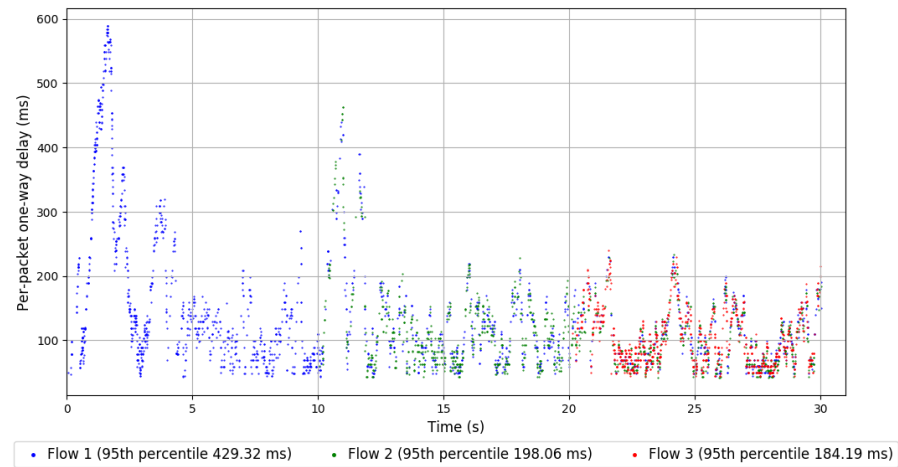
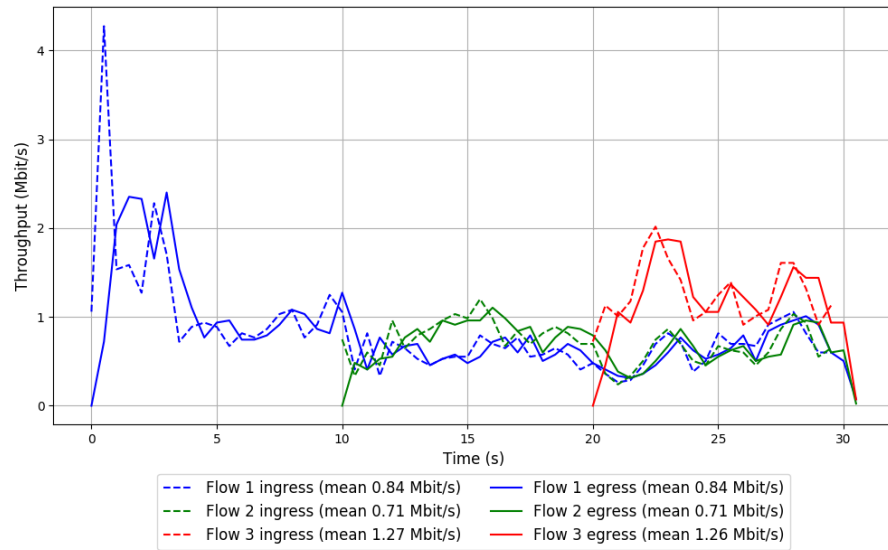


Run 2: Statistics of TCP Vegas

Start at: 2018-05-24 09:45:41  
End at: 2018-05-24 09:46:11  
Local clock offset: -0.67 ms  
Remote clock offset: 12.001 ms

# Below is generated by plot.py at 2018-05-24 12:12:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.72 Mbit/s  
95th percentile per-packet one-way delay: 322.545 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 0.84 Mbit/s  
95th percentile per-packet one-way delay: 429.322 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 198.057 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 184.190 ms  
Loss rate: 1.15%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 10:03:19

End at: 2018-05-24 10:03:49

Local clock offset: 0.121 ms

Remote clock offset: 1.452 ms

# Below is generated by plot.py at 2018-05-24 12:12:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.02 Mbit/s

95th percentile per-packet one-way delay: 298.064 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 1.69 Mbit/s

95th percentile per-packet one-way delay: 228.407 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 389.248 ms

Loss rate: 0.63%

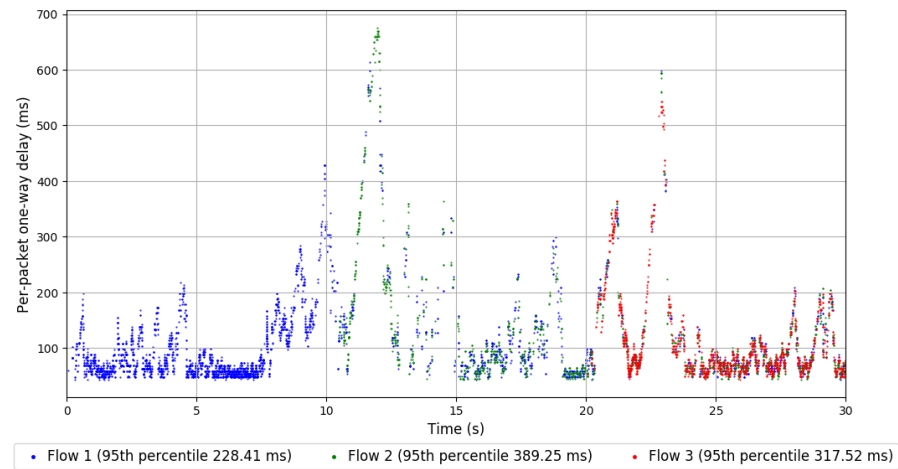
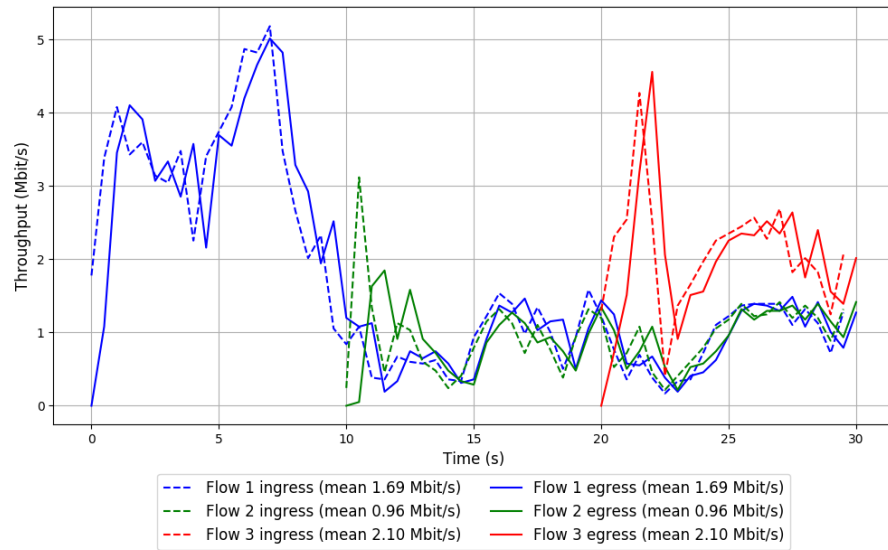
-- Flow 3:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 317.524 ms

Loss rate: 0.80%

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

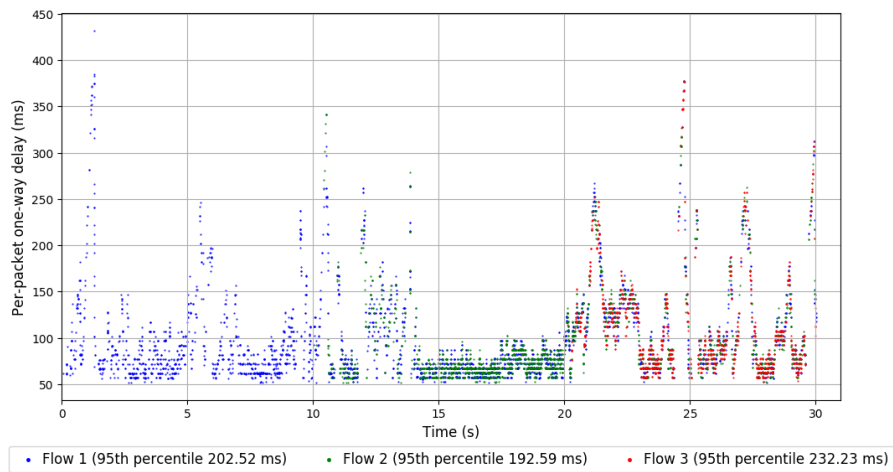
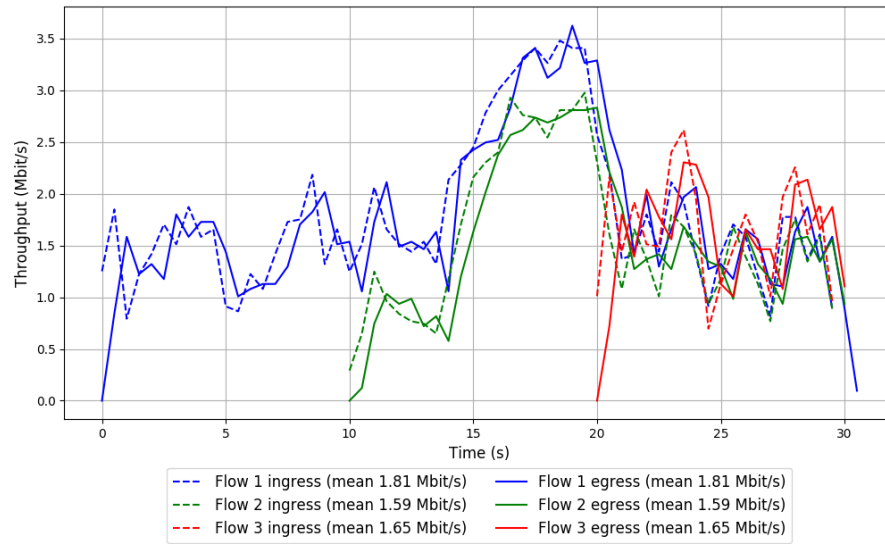


Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 10:21:06  
End at: 2018-05-24 10:21:36  
Local clock offset: -2.188 ms  
Remote clock offset: -0.412 ms

# Below is generated by plot.py at 2018-05-24 12:12:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.41 Mbit/s  
95th percentile per-packet one-way delay: 208.353 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 1.81 Mbit/s  
95th percentile per-packet one-way delay: 202.517 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 1.59 Mbit/s  
95th percentile per-packet one-way delay: 192.593 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 1.65 Mbit/s  
95th percentile per-packet one-way delay: 232.234 ms  
Loss rate: 0.95%

# Run 4: Report of TCP Vegas — Data Link



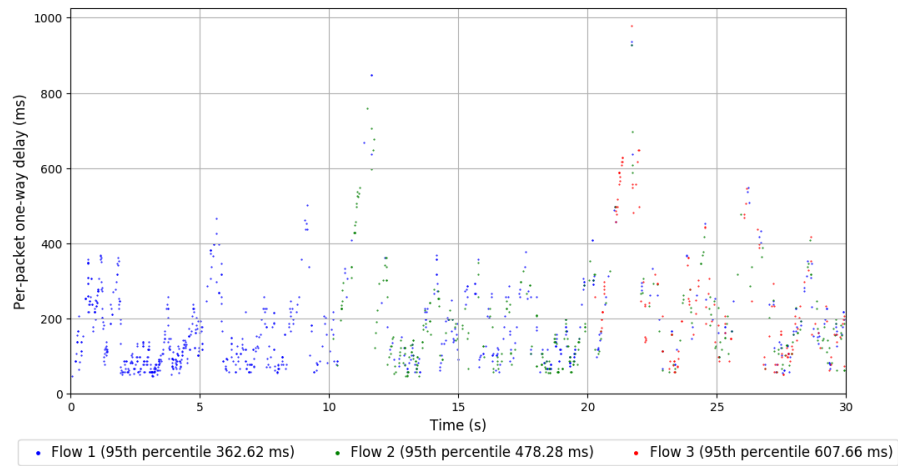
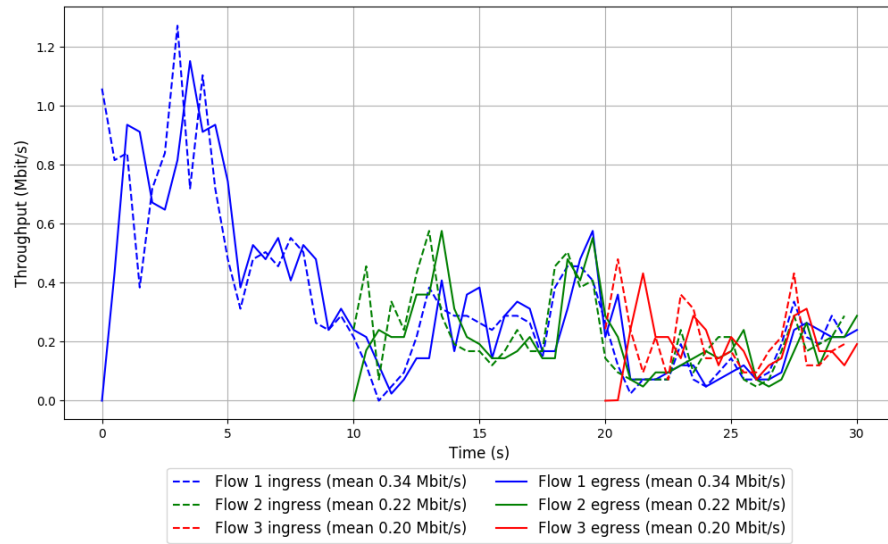
Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 10:38:42  
End at: 2018-05-24 10:39:12  
Local clock offset: 0.56 ms  
Remote clock offset: -5.475 ms

# Below is generated by plot.py at 2018-05-24 12:12:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 452.743 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 362.625 ms  
Loss rate: 1.52%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 478.282 ms  
Loss rate: 2.74%  
-- Flow 3:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 607.664 ms  
Loss rate: 5.29%



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

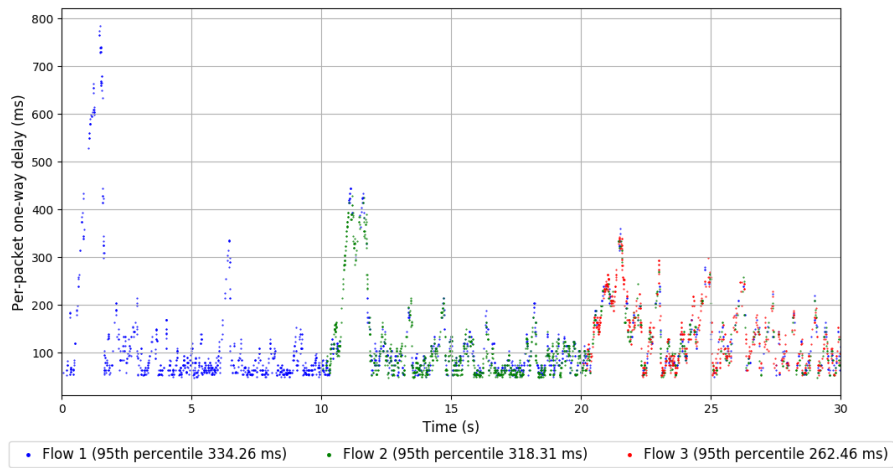
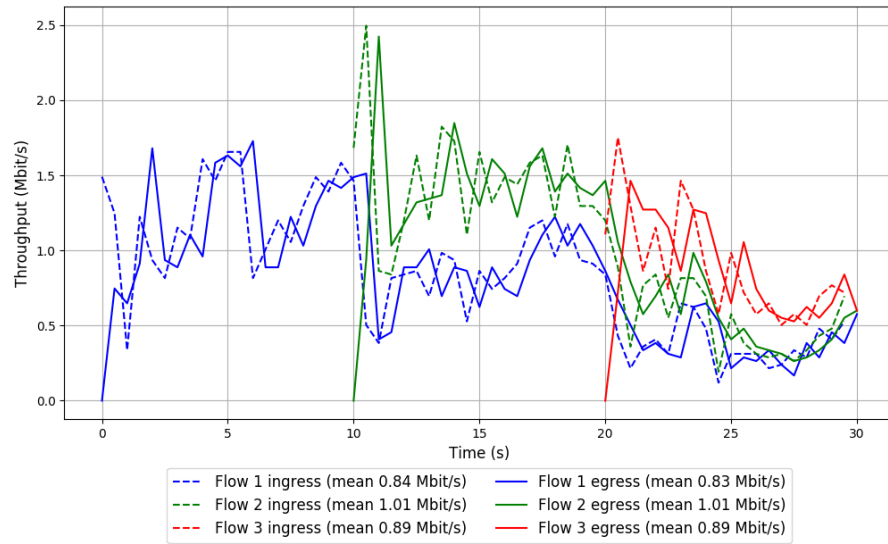


Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 10:56:17  
End at: 2018-05-24 10:56:47  
Local clock offset: 0.739 ms  
Remote clock offset: -0.824 ms

# Below is generated by plot.py at 2018-05-24 12:12:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.80 Mbit/s  
95th percentile per-packet one-way delay: 313.528 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 0.83 Mbit/s  
95th percentile per-packet one-way delay: 334.259 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 1.01 Mbit/s  
95th percentile per-packet one-way delay: 318.312 ms  
Loss rate: 0.53%  
-- Flow 3:  
Average throughput: 0.89 Mbit/s  
95th percentile per-packet one-way delay: 262.458 ms  
Loss rate: 1.08%

# Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 11:13:52

End at: 2018-05-24 11:14:22

Local clock offset: -7.812 ms

Remote clock offset: 7.189 ms

# Below is generated by plot.py at 2018-05-24 12:12:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 428.236 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 357.105 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 772.552 ms

Loss rate: 1.93%

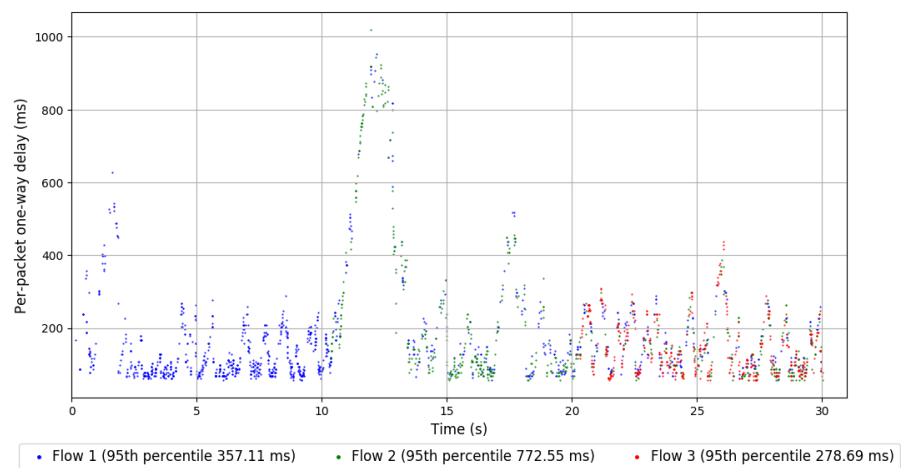
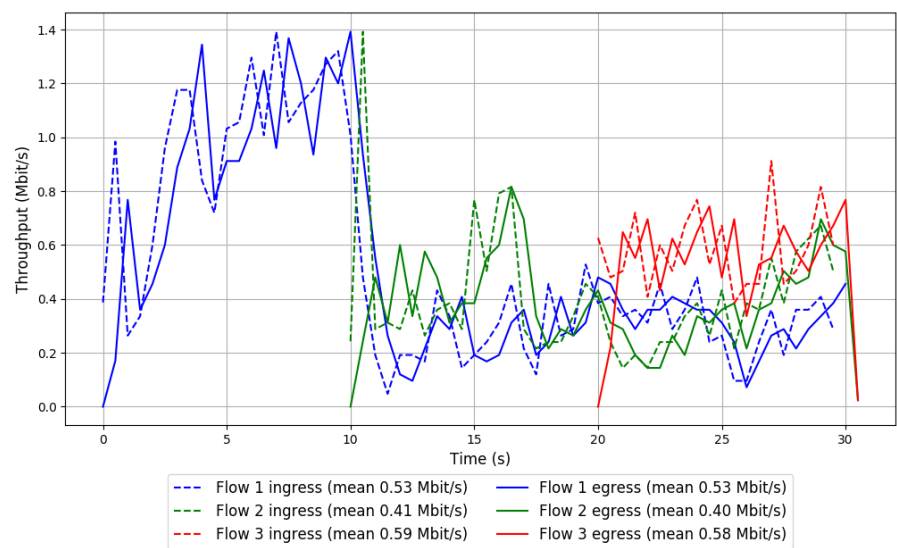
-- Flow 3:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 278.689 ms

Loss rate: 1.44%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 11:31:36

End at: 2018-05-24 11:32:06

Local clock offset: -0.88 ms

Remote clock offset: 7.113 ms

# Below is generated by plot.py at 2018-05-24 12:12:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 452.161 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 475.437 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 407.097 ms

Loss rate: 1.07%

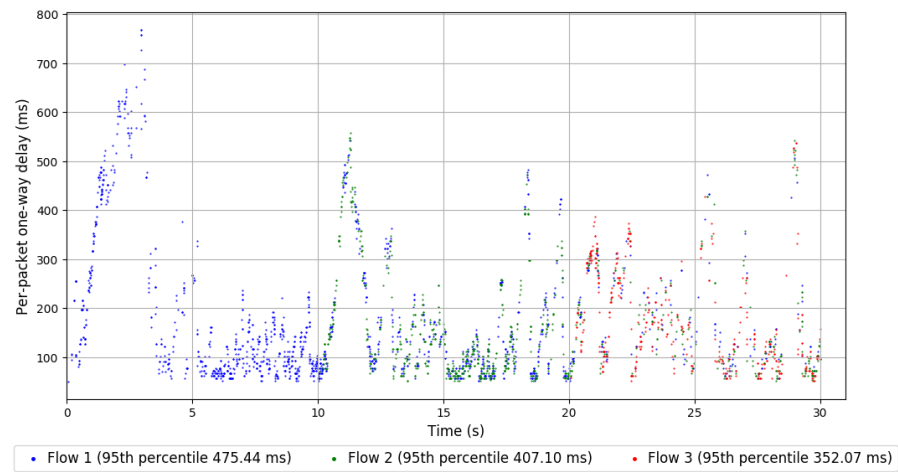
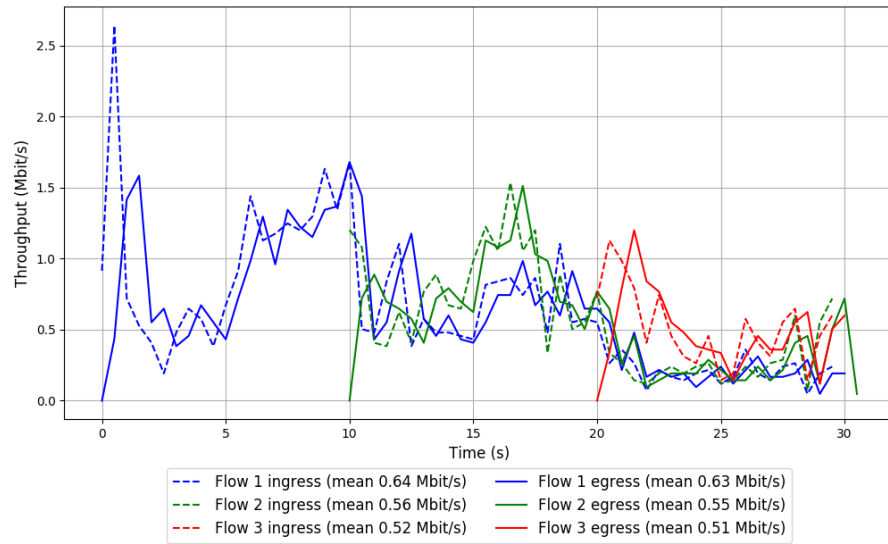
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 352.068 ms

Loss rate: 2.10%

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



Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 11:49:27

End at: 2018-05-24 11:49:57

Local clock offset: 3.579 ms

Remote clock offset: 5.22 ms

# Below is generated by plot.py at 2018-05-24 12:12:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 373.498 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 433.223 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 362.214 ms

Loss rate: 0.68%

-- Flow 3:

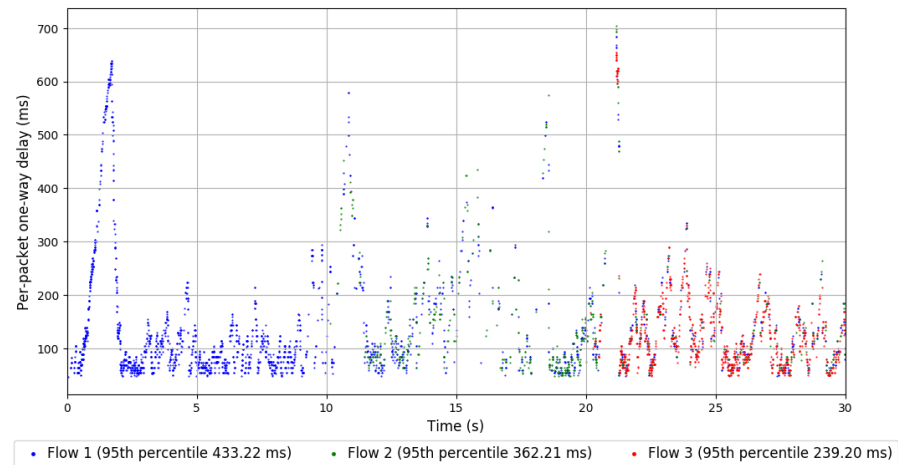
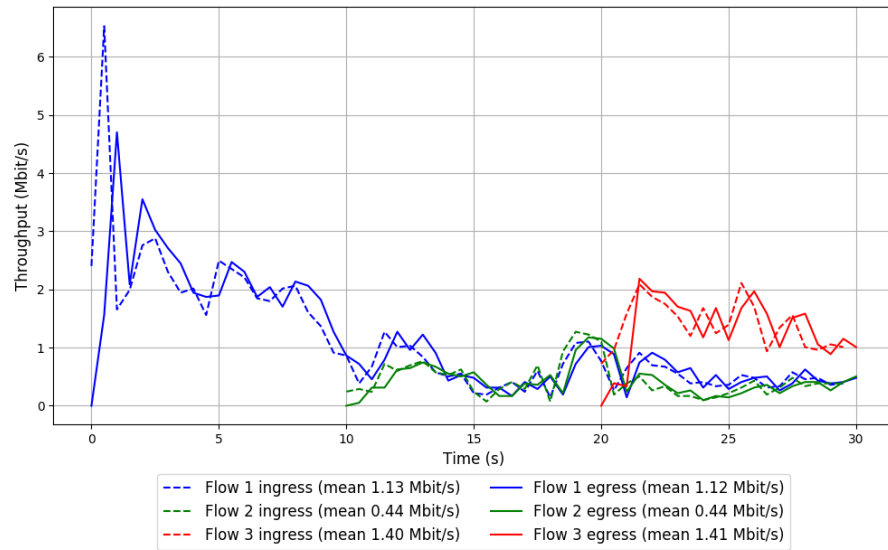
Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 239.202 ms

Loss rate: 0.52%



# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 12:07:10

End at: 2018-05-24 12:07:40

Local clock offset: 0.461 ms

Remote clock offset: 4.132 ms

# Below is generated by plot.py at 2018-05-24 12:12:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 441.098 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 495.926 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 265.638 ms

Loss rate: 0.53%

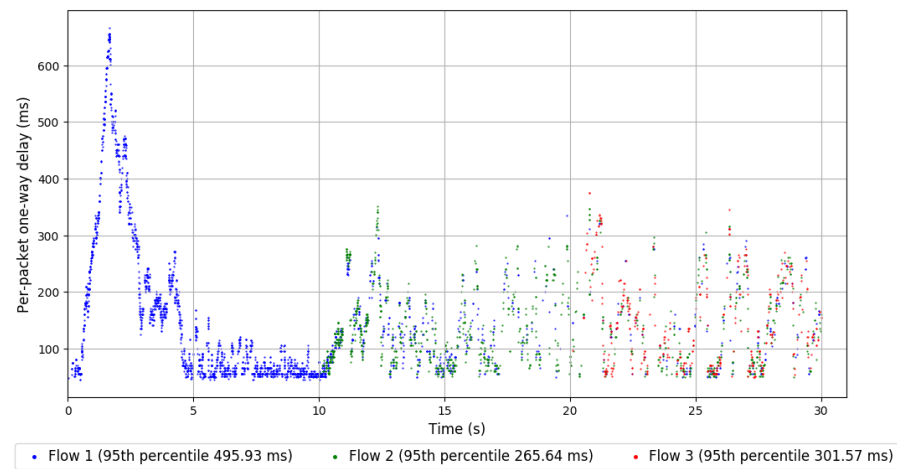
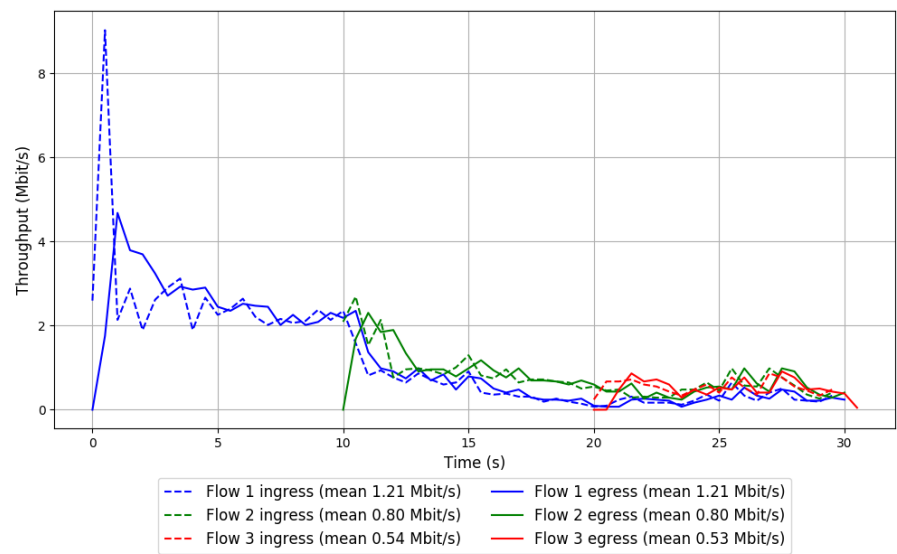
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 301.567 ms

Loss rate: 2.22%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-24 09:25:55

End at: 2018-05-24 09:26:25

Local clock offset: -2.215 ms

Remote clock offset: 9.442 ms

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2018-05-24 09:43:27

End at: 2018-05-24 09:43:57

Local clock offset: -1.969 ms

Remote clock offset: 16.389 ms

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

Start at: 2018-05-24 10:01:07

End at: 2018-05-24 10:01:37

Local clock offset: -0.033 ms

Remote clock offset: 2.063 ms



Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Verus

Start at: 2018-05-24 10:18:55

End at: 2018-05-24 10:19:25

Local clock offset: -0.529 ms

Remote clock offset: 0.653 ms

Run 4: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Verus

Start at: 2018-05-24 10:36:26

End at: 2018-05-24 10:36:56

Local clock offset: 2.768 ms

Remote clock offset: -5.441 ms

Run 5: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Verus

Start at: 2018-05-24 10:54:06

End at: 2018-05-24 10:54:36

Local clock offset: 0.226 ms

Remote clock offset: -3.371 ms

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

Start at: 2018-05-24 11:11:36

End at: 2018-05-24 11:12:06

Local clock offset: 0.43 ms

Remote clock offset: 5.578 ms



Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

Start at: 2018-05-24 11:29:24

End at: 2018-05-24 11:29:54

Local clock offset: 1.44 ms

Remote clock offset: 9.121 ms

Run 8: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Verus

Start at: 2018-05-24 11:47:15

End at: 2018-05-24 11:47:45

Local clock offset: 0.816 ms

Remote clock offset: 2.999 ms

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

Start at: 2018-05-24 12:04:57

End at: 2018-05-24 12:05:27

Local clock offset: -0.153 ms

Remote clock offset: 5.657 ms

Run 10: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Vivace

Start at: 2018-05-24 09:14:53

End at: 2018-05-24 09:15:23

Local clock offset: -2.182 ms

Remote clock offset: 1.165 ms

# Below is generated by plot.py at 2018-05-24 12:12:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 1128.301 ms

Loss rate: 47.10%

-- Flow 1:

Average throughput: 0.85 Mbit/s

95th percentile per-packet one-way delay: 1120.900 ms

Loss rate: 39.20%

-- Flow 2:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 1138.074 ms

Loss rate: 61.36%

-- Flow 3:

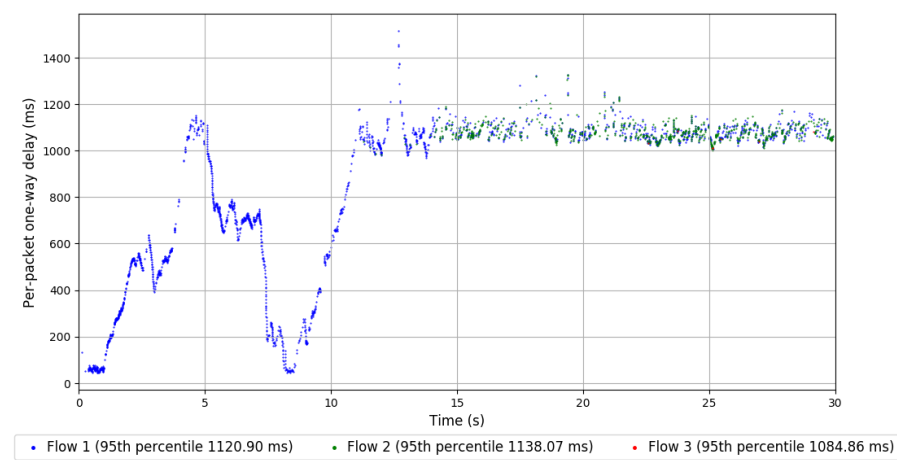
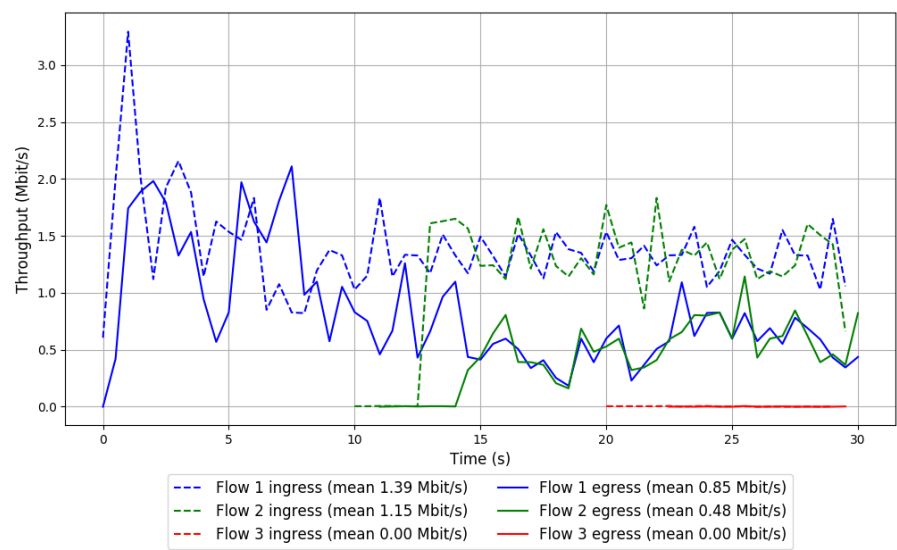
Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1084.855 ms

Loss rate: 71.28%



Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-24 09:32:30

End at: 2018-05-24 09:33:00

Local clock offset: -1.89 ms

Remote clock offset: 11.85 ms

# Below is generated by plot.py at 2018-05-24 12:12:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 1155.720 ms

Loss rate: 60.53%

-- Flow 1:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 1155.160 ms

Loss rate: 57.37%

-- Flow 2:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1156.951 ms

Loss rate: 66.02%

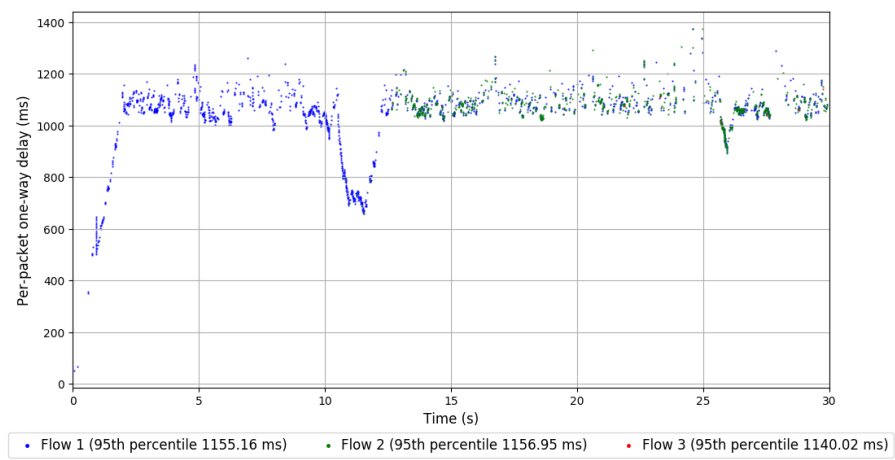
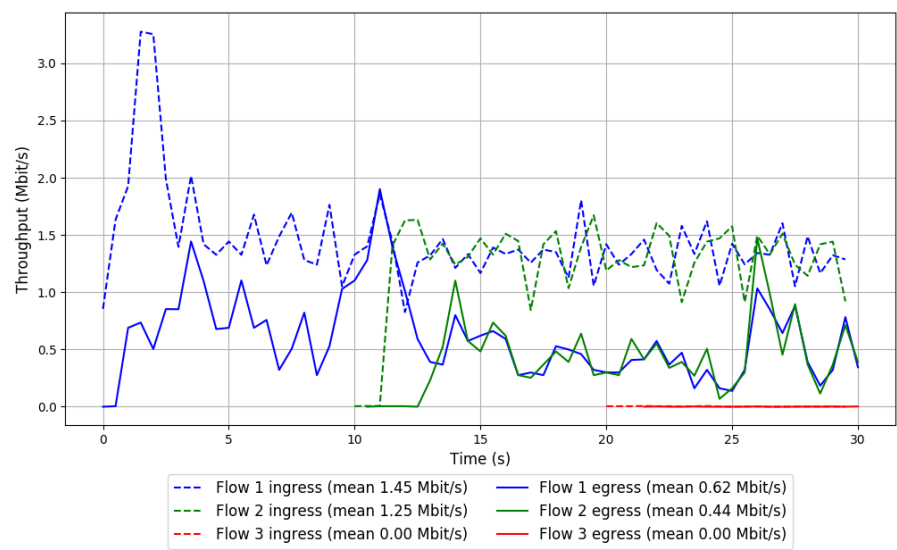
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1140.024 ms

Loss rate: 76.04%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 09:50:06

End at: 2018-05-24 09:50:36

Local clock offset: -0.919 ms

Remote clock offset: 6.946 ms

# Below is generated by plot.py at 2018-05-24 12:12:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 1110.052 ms

Loss rate: 45.64%

-- Flow 1:

Average throughput: 0.92 Mbit/s

95th percentile per-packet one-way delay: 1103.909 ms

Loss rate: 36.13%

-- Flow 2:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 1114.538 ms

Loss rate: 52.73%

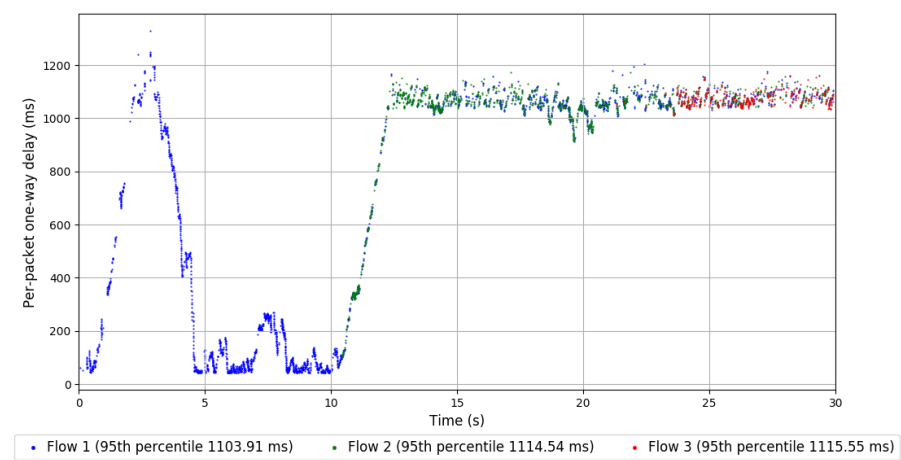
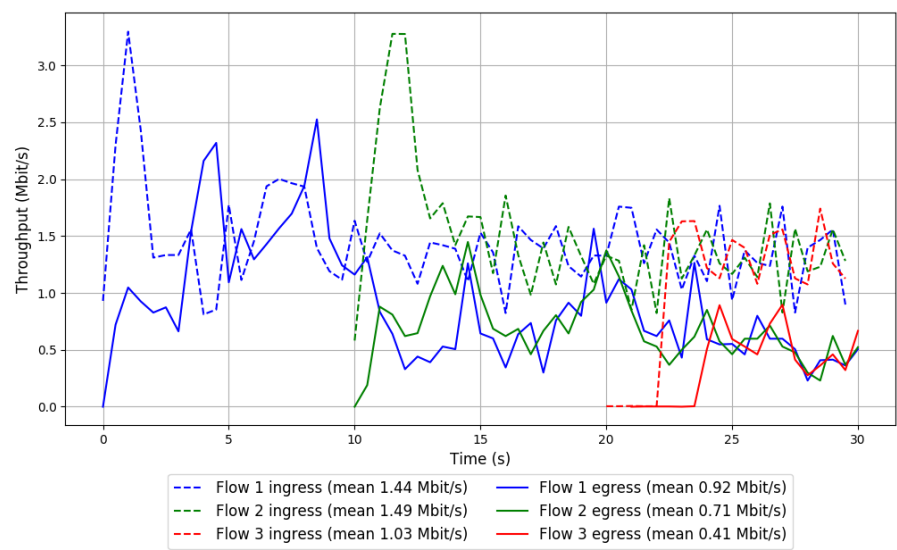
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 1115.547 ms

Loss rate: 65.14%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 10:07:49

End at: 2018-05-24 10:08:19

Local clock offset: -1.665 ms

Remote clock offset: 1.511 ms

# Below is generated by plot.py at 2018-05-24 12:12:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 1084.343 ms

Loss rate: 16.11%

-- Flow 1:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 1083.851 ms

Loss rate: 13.90%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 1071.504 ms

Loss rate: 12.95%

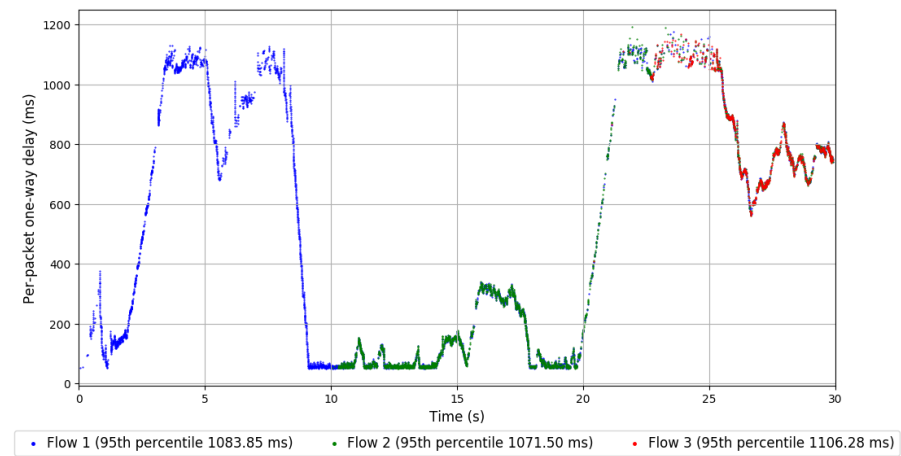
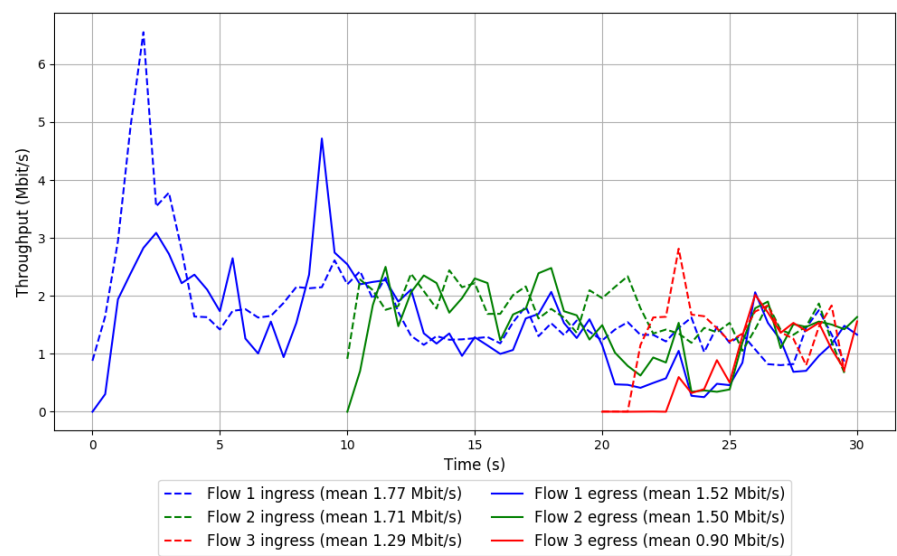
-- Flow 3:

Average throughput: 0.90 Mbit/s

95th percentile per-packet one-way delay: 1106.275 ms

Loss rate: 33.69%

Run 4: Report of PCC-Vivace — Data Link



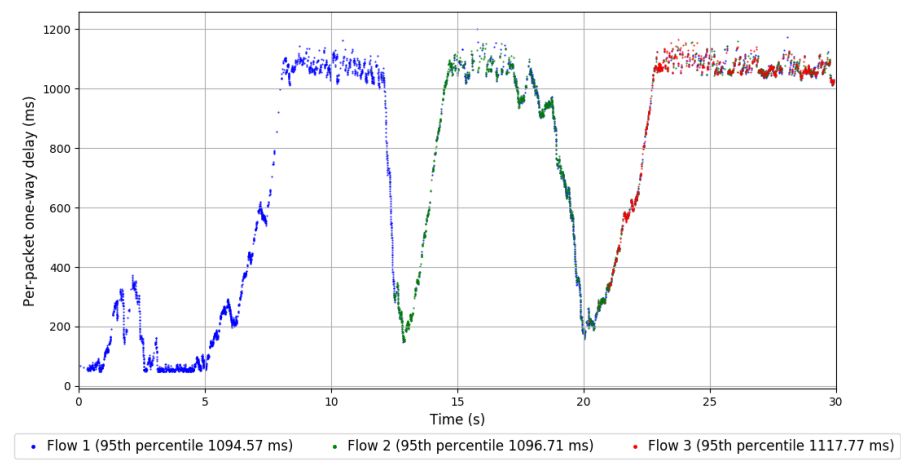
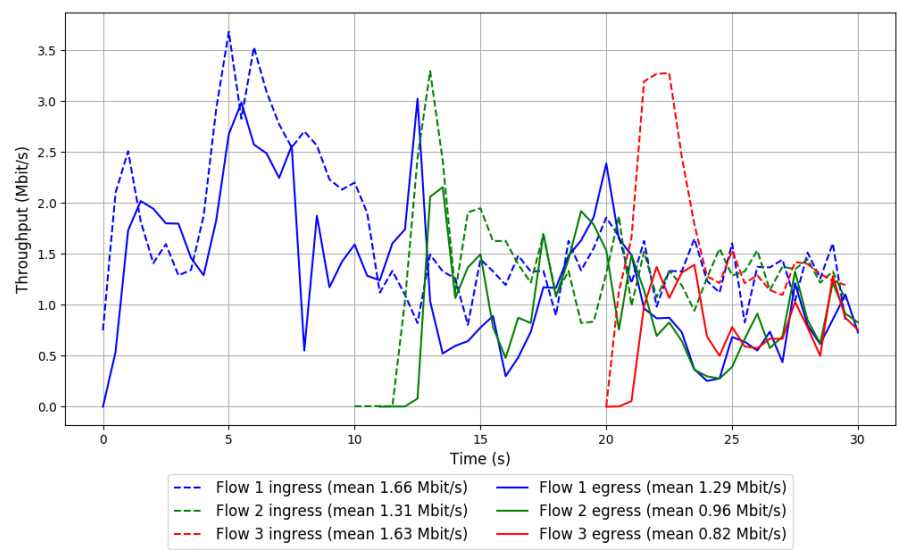
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 10:25:28  
End at: 2018-05-24 10:25:58  
Local clock offset: 1.951 ms  
Remote clock offset: -1.655 ms

# Below is generated by plot.py at 2018-05-24 12:12:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.16 Mbit/s  
95th percentile per-packet one-way delay: 1100.008 ms  
Loss rate: 29.72%  
-- Flow 1:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 1094.572 ms  
Loss rate: 22.64%  
-- Flow 2:  
Average throughput: 0.96 Mbit/s  
95th percentile per-packet one-way delay: 1096.713 ms  
Loss rate: 30.42%  
-- Flow 3:  
Average throughput: 0.82 Mbit/s  
95th percentile per-packet one-way delay: 1117.771 ms  
Loss rate: 50.52%



Run 5: Report of PCC-Vivace — Data Link

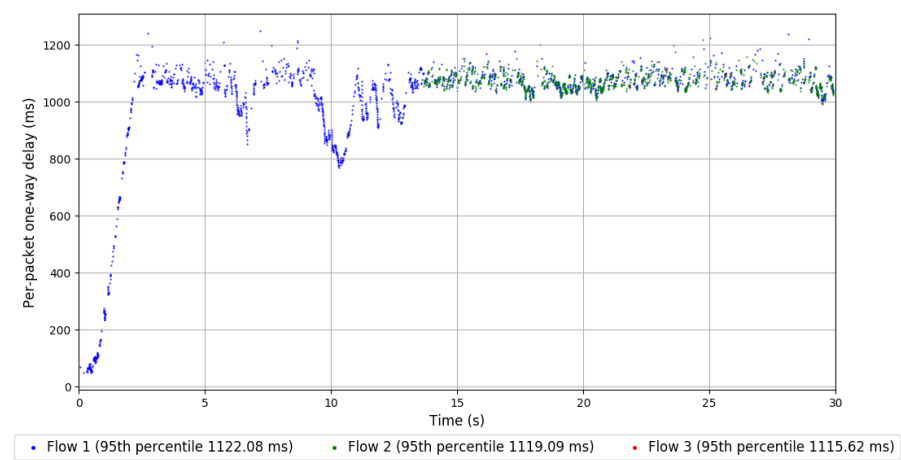
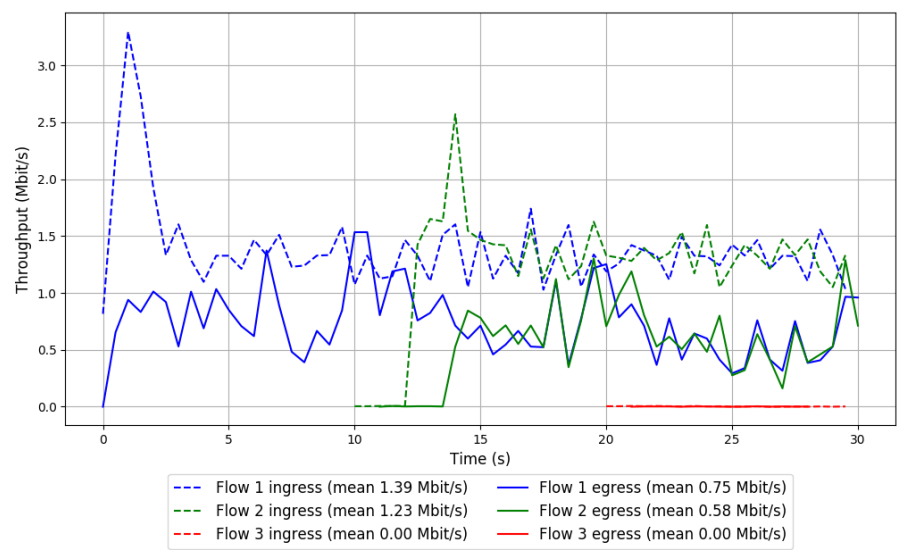


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 10:43:06  
End at: 2018-05-24 10:43:36  
Local clock offset: 0.264 ms  
Remote clock offset: -6.488 ms

# Below is generated by plot.py at 2018-05-24 12:12:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.12 Mbit/s  
95th percentile per-packet one-way delay: 1121.380 ms  
Loss rate: 49.28%  
-- Flow 1:  
Average throughput: 0.75 Mbit/s  
95th percentile per-packet one-way delay: 1122.081 ms  
Loss rate: 45.97%  
-- Flow 2:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 1119.092 ms  
Loss rate: 54.91%  
-- Flow 3:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 1115.624 ms  
Loss rate: 65.83%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

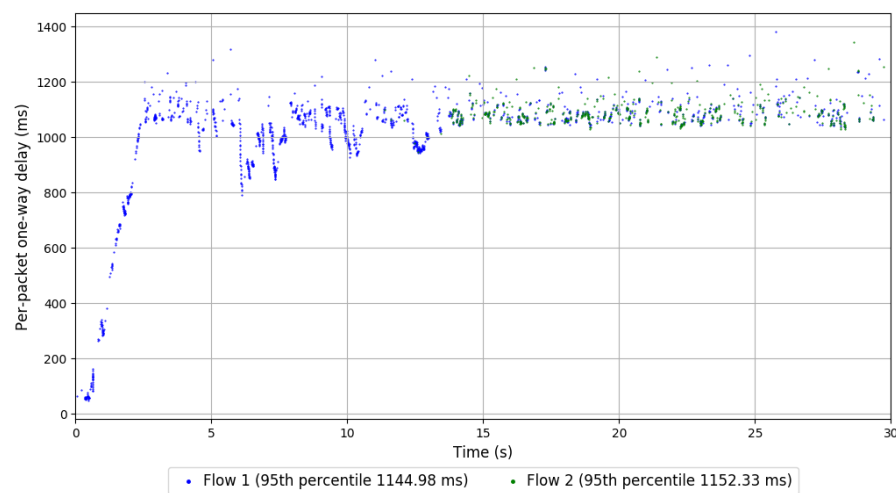
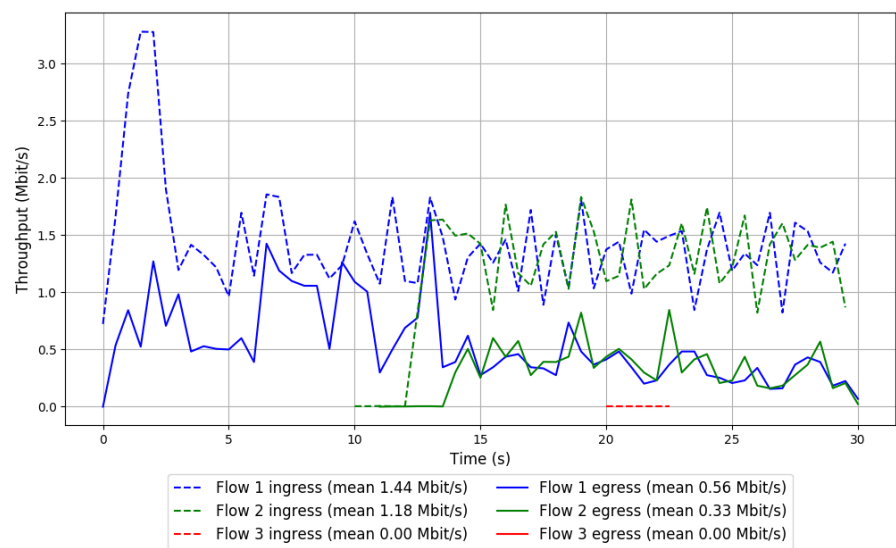
Start at: 2018-05-24 11:00:39

End at: 2018-05-24 11:01:09

Local clock offset: 1.835 ms

Remote clock offset: 1.964 ms

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 11:18:20

End at: 2018-05-24 11:18:50

Local clock offset: -2.081 ms

Remote clock offset: 8.031 ms

# Below is generated by plot.py at 2018-05-24 12:12:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 1107.442 ms

Loss rate: 33.00%

-- Flow 1:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 1100.079 ms

Loss rate: 25.91%

-- Flow 2:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 1114.851 ms

Loss rate: 43.29%

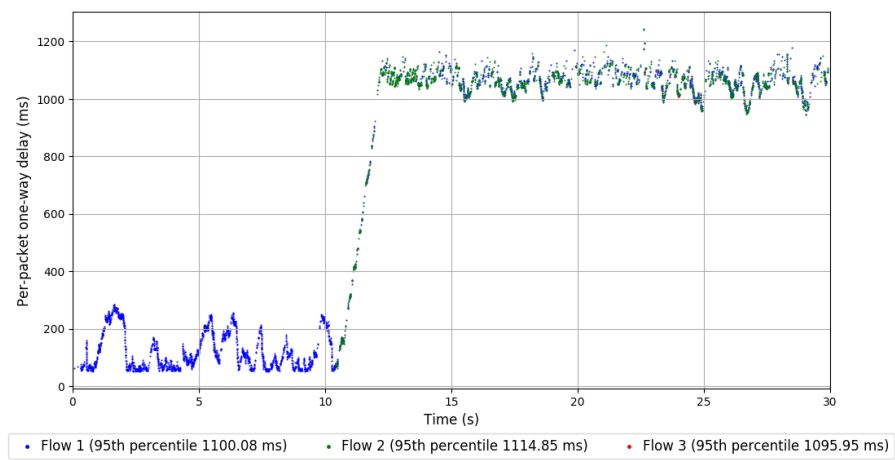
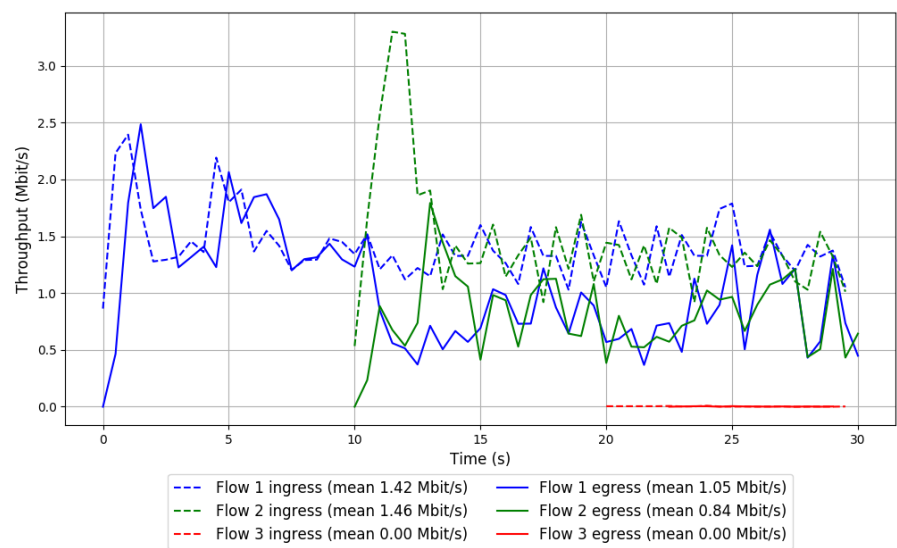
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 1095.948 ms

Loss rate: 51.46%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 11:35:58

End at: 2018-05-24 11:36:29

Local clock offset: 0.795 ms

Remote clock offset: 4.986 ms

# Below is generated by plot.py at 2018-05-24 12:12:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 1085.959 ms

Loss rate: 15.49%

-- Flow 1:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 1078.039 ms

Loss rate: 11.85%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 1089.507 ms

Loss rate: 17.80%

-- Flow 3:

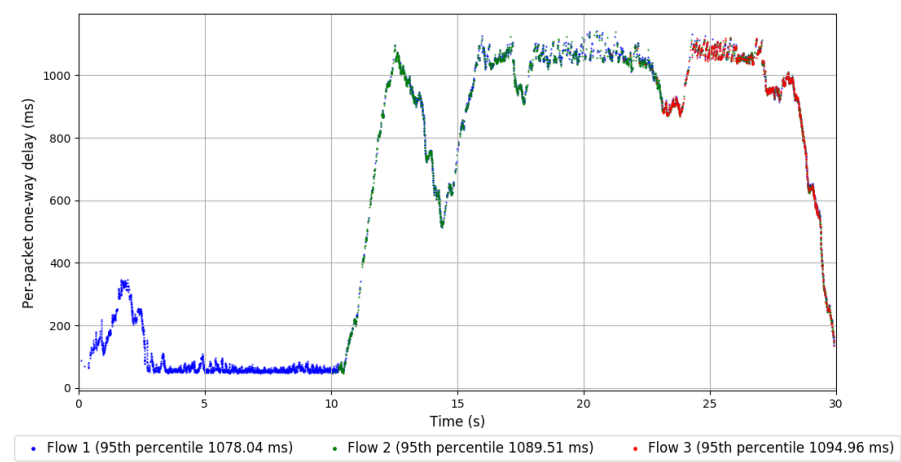
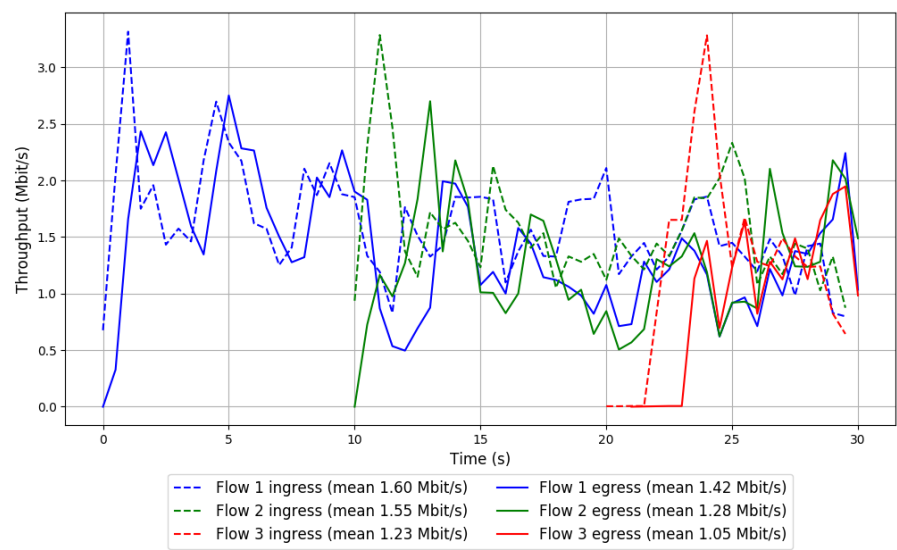
Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 1094.962 ms

Loss rate: 23.92%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 11:53:49

End at: 2018-05-24 11:54:19

Local clock offset: 1.429 ms

Remote clock offset: 4.152 ms

# Below is generated by plot.py at 2018-05-24 12:12:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 1116.969 ms

Loss rate: 43.71%

-- Flow 1:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 1112.451 ms

Loss rate: 33.33%

-- Flow 2:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 1120.758 ms

Loss rate: 49.48%

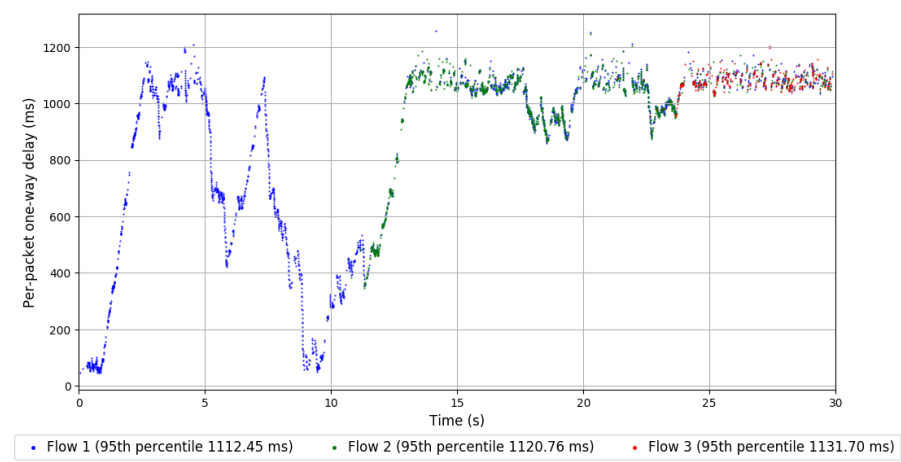
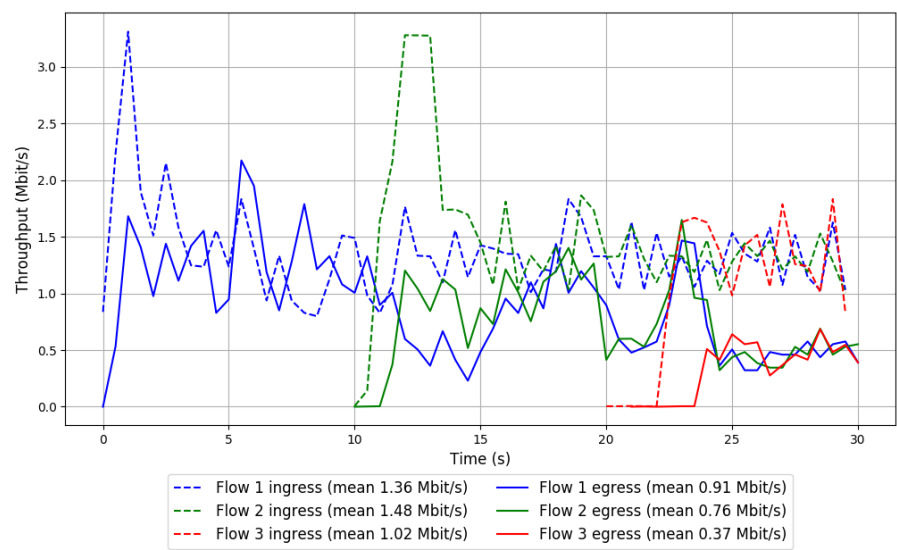
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 1131.699 ms

Loss rate: 68.77%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-24 09:21:32

End at: 2018-05-24 09:22:02

Local clock offset: -1.992 ms

Remote clock offset: 6.885 ms

# Below is generated by plot.py at 2018-05-24 12:12:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 262.336 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 302.185 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 252.738 ms

Loss rate: 0.00%

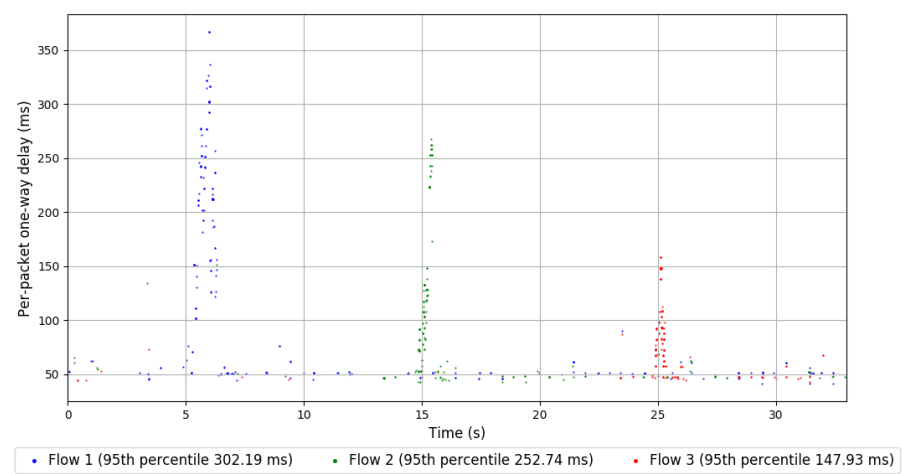
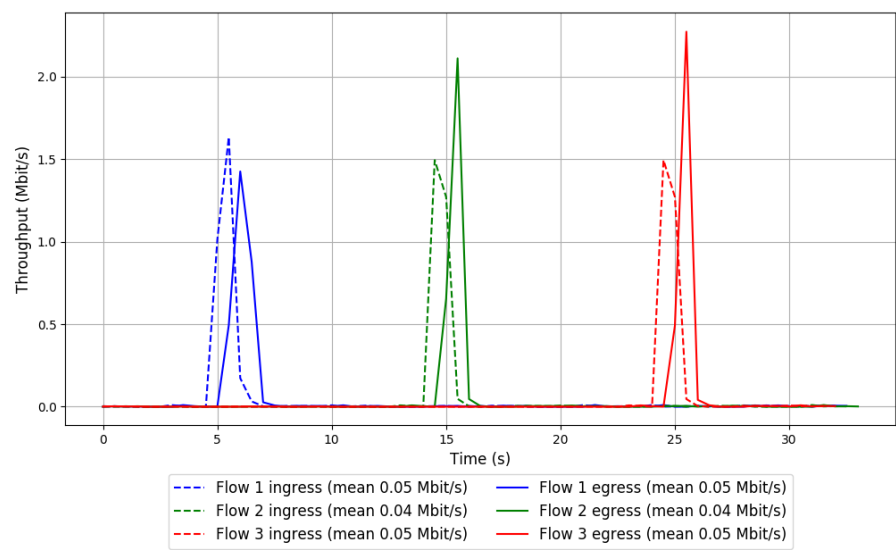
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 147.931 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

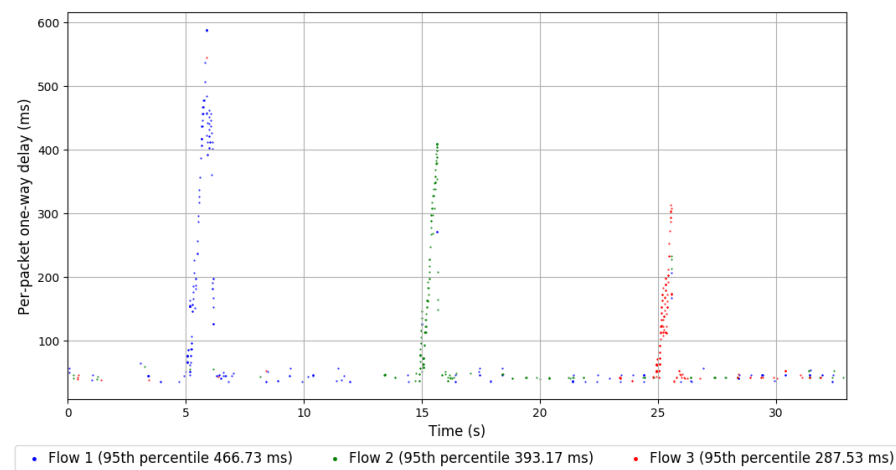
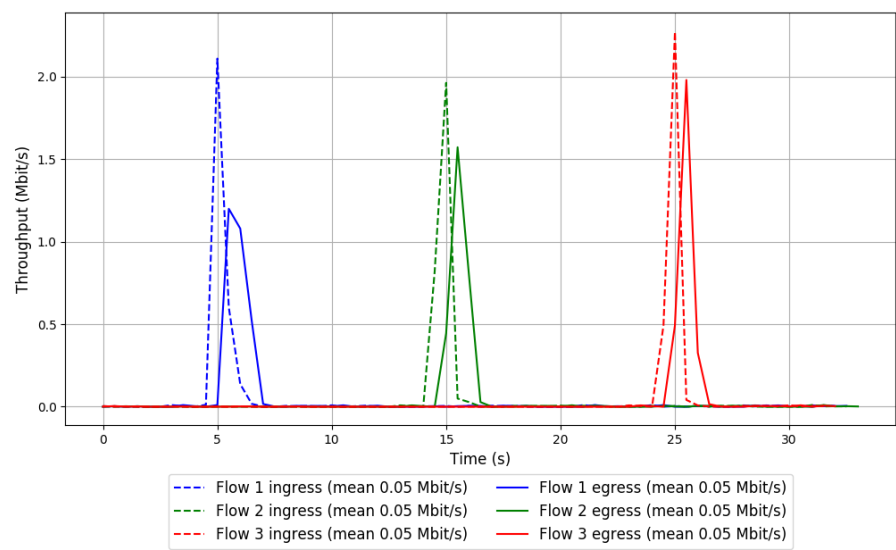


Run 2: Statistics of WebRTC media

Start at: 2018-05-24 09:39:05  
End at: 2018-05-24 09:39:35  
Local clock offset: 2.686 ms  
Remote clock offset: 14.283 ms

# Below is generated by plot.py at 2018-05-24 12:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 436.477 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 466.727 ms  
Loss rate: 1.58%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 393.166 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 287.532 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-24 09:56:42

End at: 2018-05-24 09:57:12

Local clock offset: -2.391 ms

Remote clock offset: 4.205 ms

# Below is generated by plot.py at 2018-05-24 12:12:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 190.141 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 185.538 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 133.114 ms

Loss rate: 0.00%

-- Flow 3:

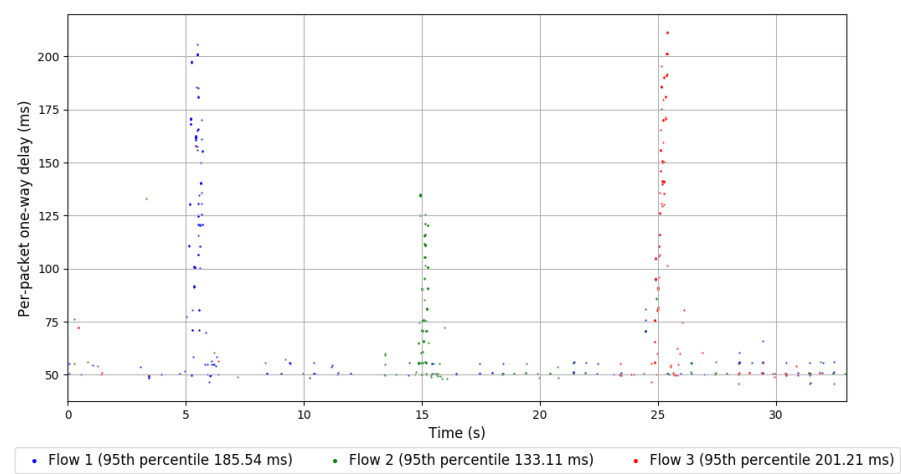
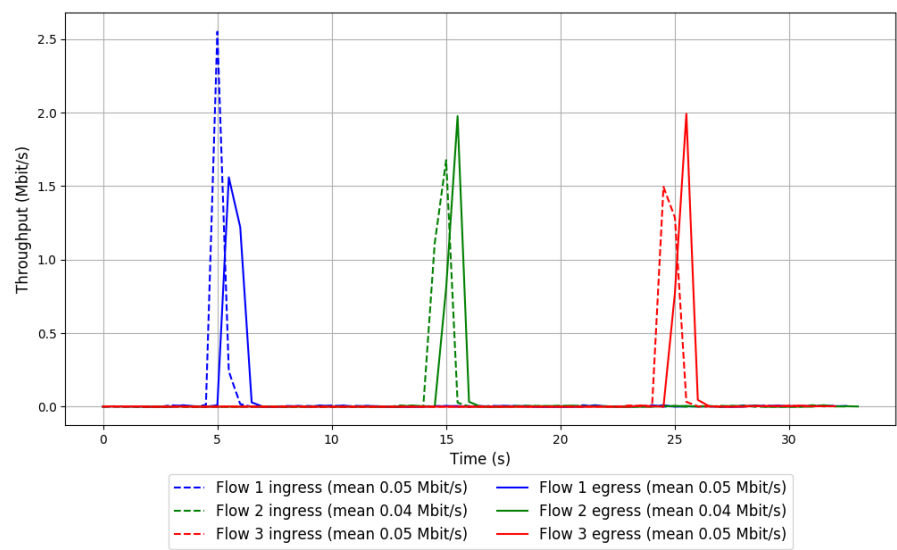
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 201.206 ms

Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-24 10:14:31

End at: 2018-05-24 10:15:01

Local clock offset: 2.8 ms

Remote clock offset: 1.08 ms

# Below is generated by plot.py at 2018-05-24 12:12:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 395.343 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 384.713 ms

Loss rate: 1.62%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 399.048 ms

Loss rate: 0.00%

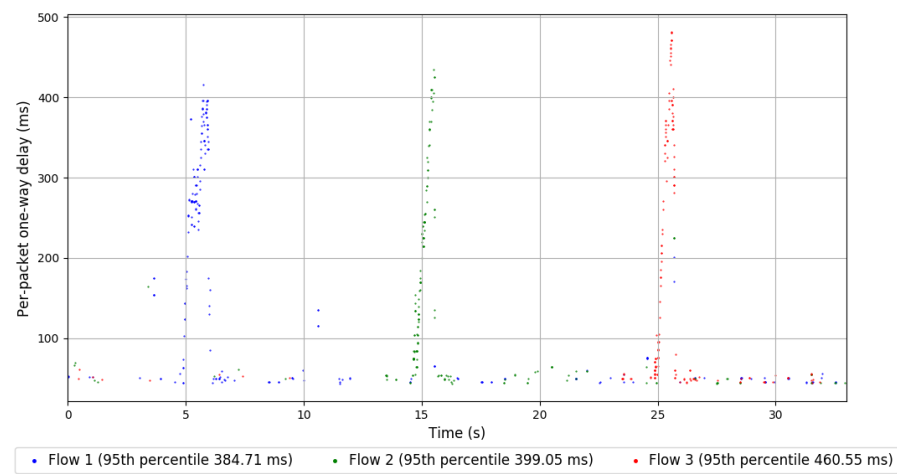
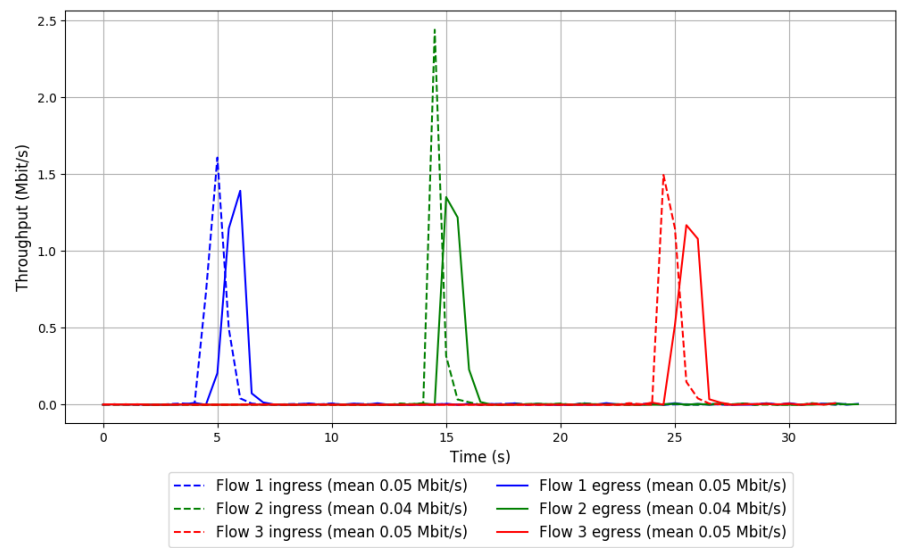
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 460.550 ms

Loss rate: 0.83%

Run 4: Report of WebRTC media — Data Link

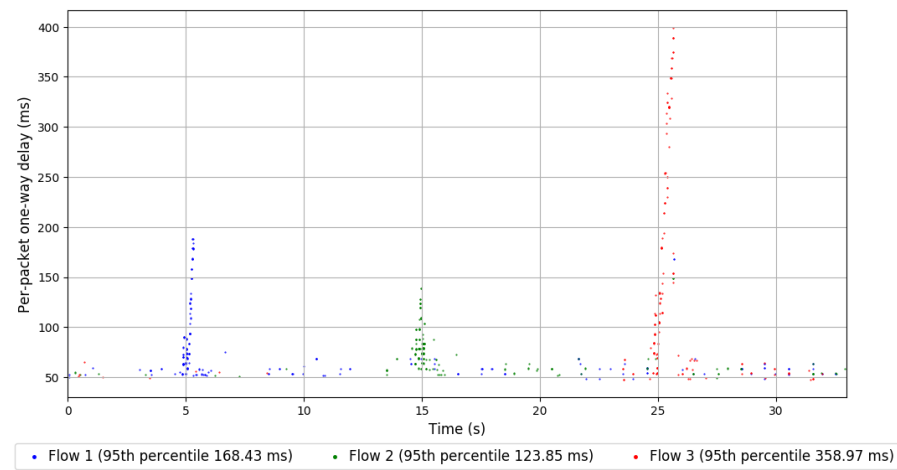
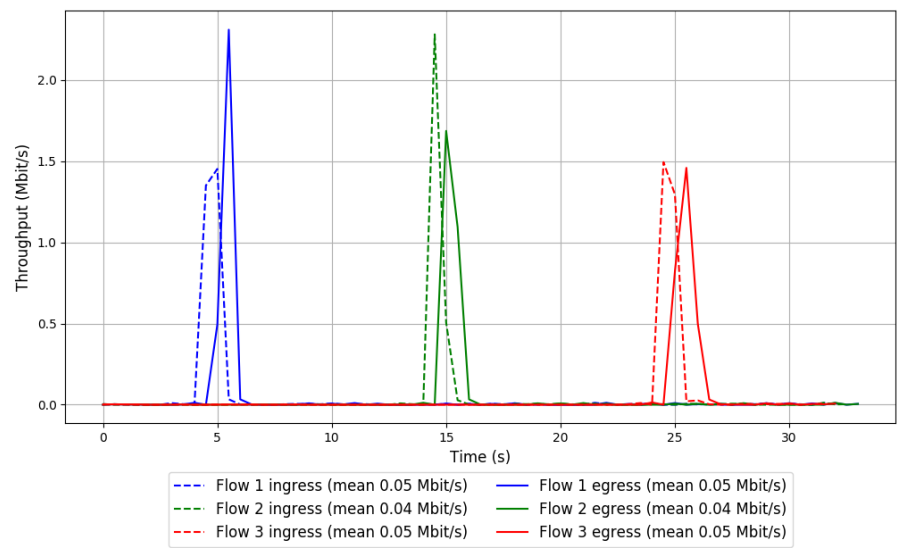


Run 5: Statistics of WebRTC media

Start at: 2018-05-24 10:32:02  
End at: 2018-05-24 10:32:32  
Local clock offset: -1.192 ms  
Remote clock offset: -3.803 ms

# Below is generated by plot.py at 2018-05-24 12:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 254.130 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 168.434 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 123.850 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 358.968 ms  
Loss rate: 0.83%

Run 5: Report of WebRTC media — Data Link

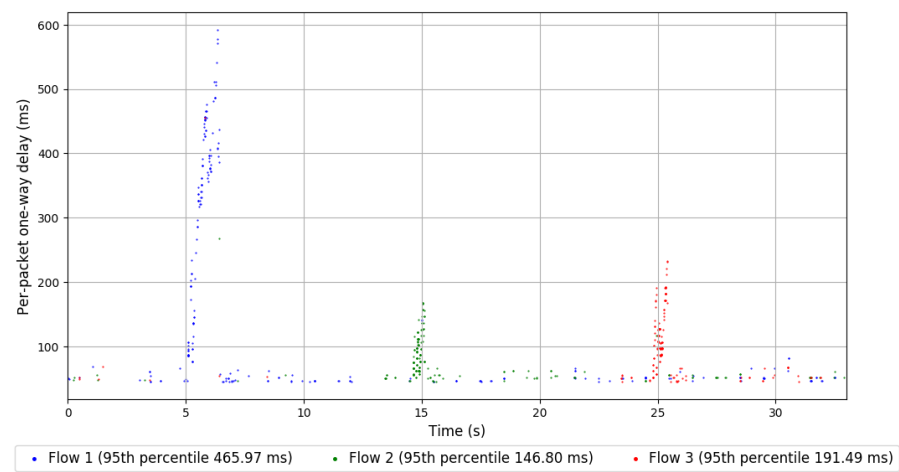
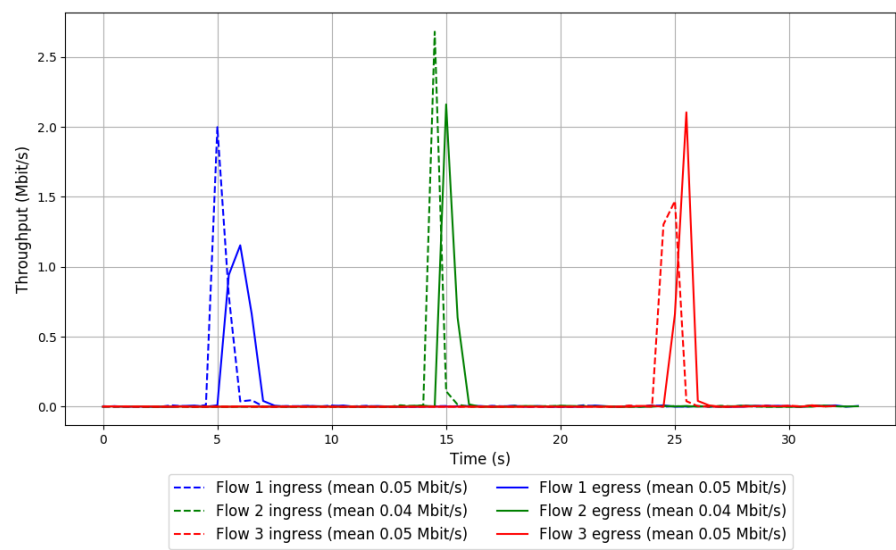


Run 6: Statistics of WebRTC media

Start at: 2018-05-24 10:49:42  
End at: 2018-05-24 10:50:12  
Local clock offset: 0.61 ms  
Remote clock offset: -5.783 ms

# Below is generated by plot.py at 2018-05-24 12:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 430.991 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 465.970 ms  
Loss rate: 2.35%  
-- Flow 2:  
Average throughput: 0.04 Mbit/s  
95th percentile per-packet one-way delay: 146.803 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 191.486 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-24 11:07:12

End at: 2018-05-24 11:07:42

Local clock offset: -0.017 ms

Remote clock offset: 3.153 ms

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

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 310.852 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 166.001 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 236.274 ms

Loss rate: 0.00%

-- Flow 3:

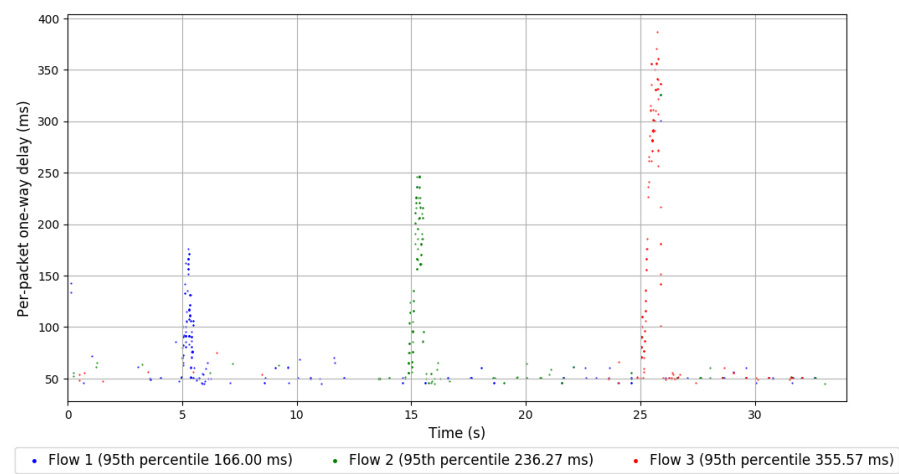
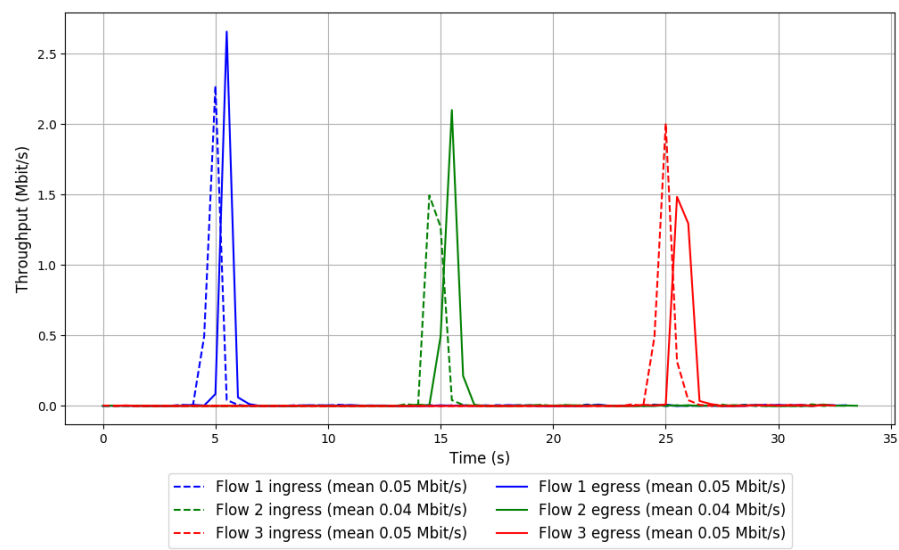
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 355.570 ms

Loss rate: 0.82%



Run 7: Report of WebRTC media — Data Link

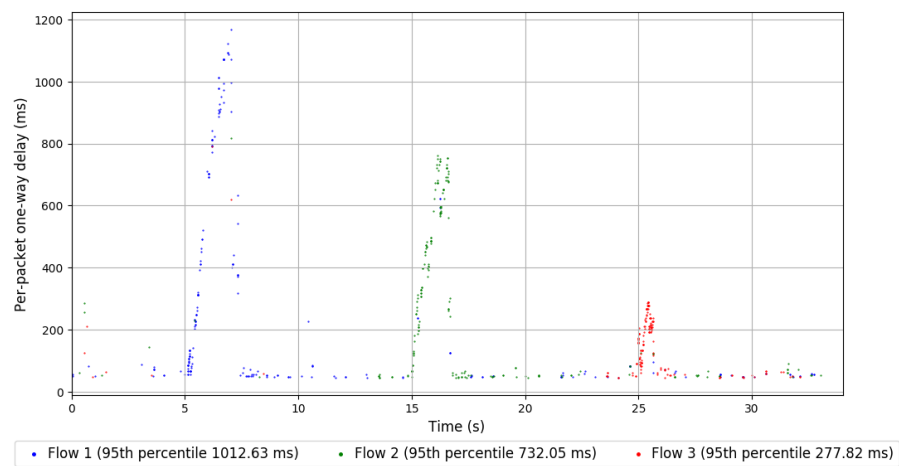
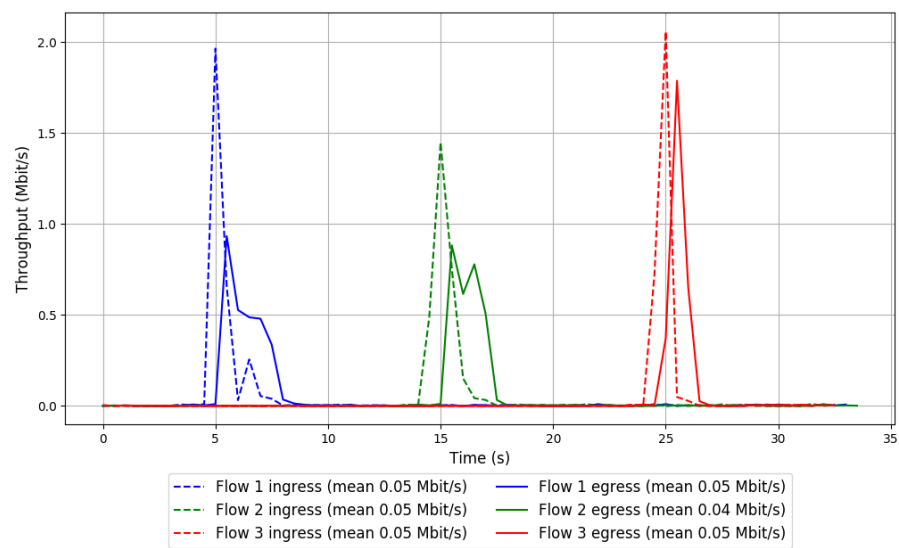


Run 8: Statistics of WebRTC media

Start at: 2018-05-24 11:24:55  
End at: 2018-05-24 11:25:25  
Local clock offset: 2.198 ms  
Remote clock offset: 10.026 ms

```
# Below is generated by plot.py at 2018-05-24 12:12:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 818.690 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1012.630 ms
Loss rate: 6.02%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 732.053 ms
Loss rate: 3.16%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 277.818 ms
Loss rate: 0.82%
```

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-24 11:42:49

End at: 2018-05-24 11:43:19

Local clock offset: 2.53 ms

Remote clock offset: 4.614 ms

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

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 431.969 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 376.419 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 471.495 ms

Loss rate: 1.62%

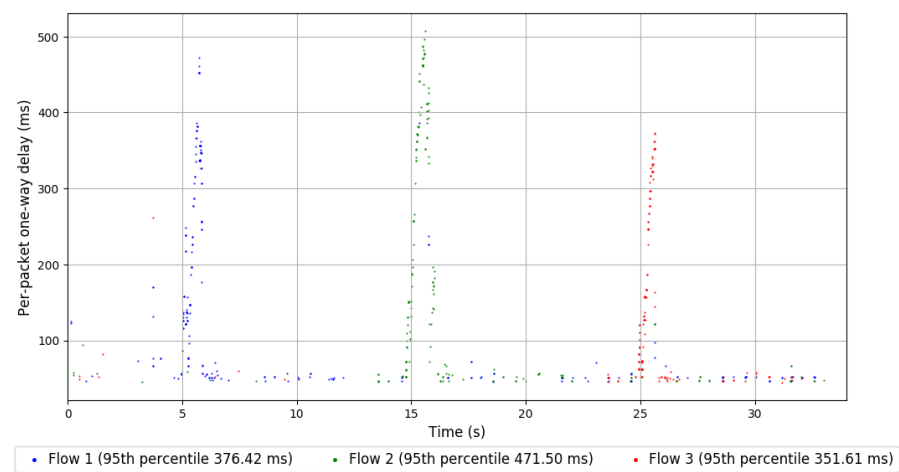
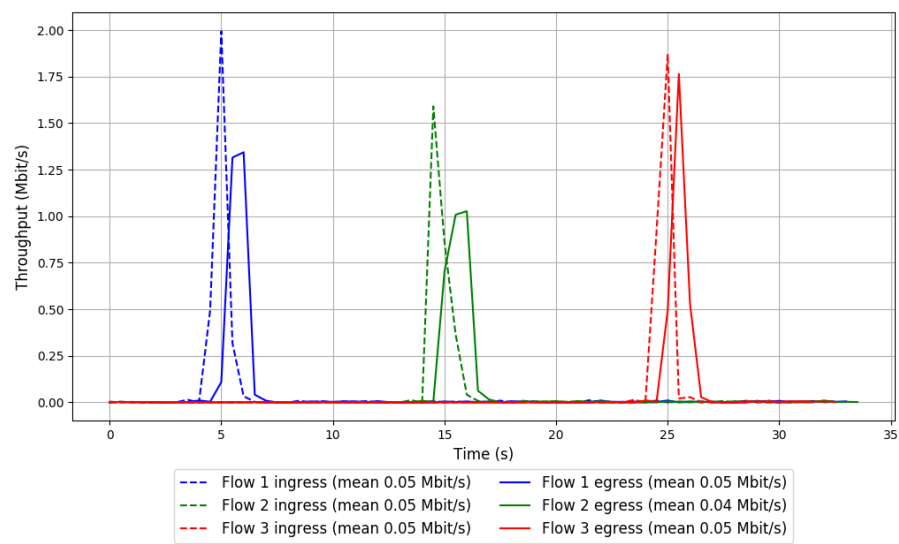
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 351.614 ms

Loss rate: 0.83%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-24 12:00:31

End at: 2018-05-24 12:01:01

Local clock offset: 1.415 ms

Remote clock offset: 3.081 ms

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

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 131.382 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 159.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 117.244 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.948 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

