

Pantheon Report

Generated at 2018-06-07 22:18:13 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

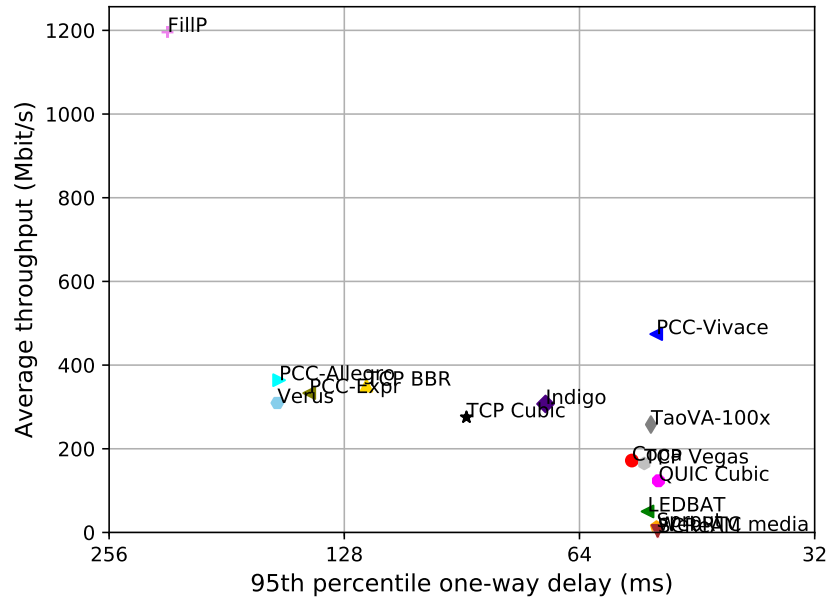
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

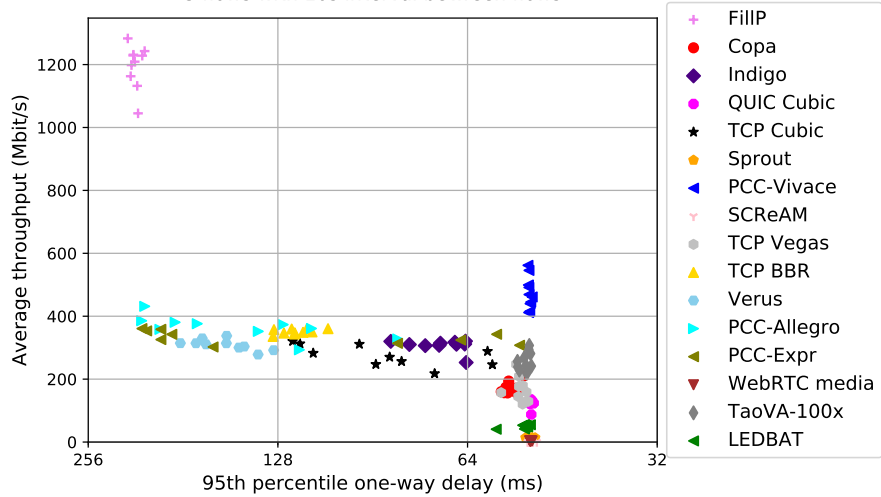
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



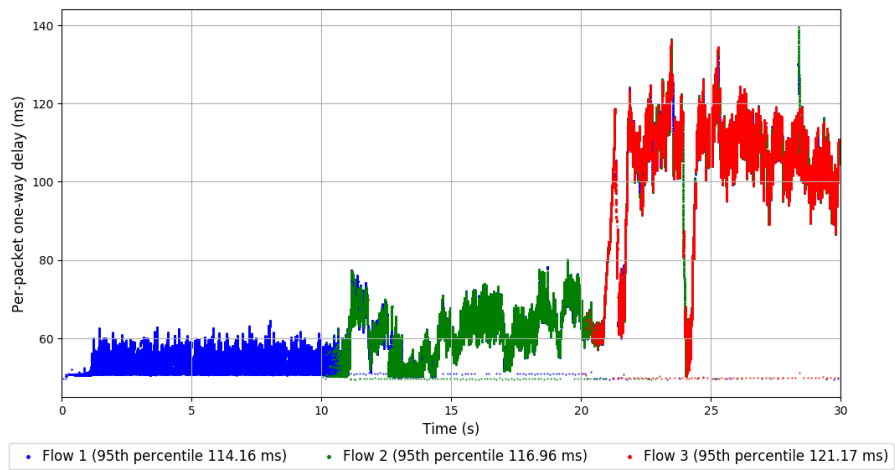
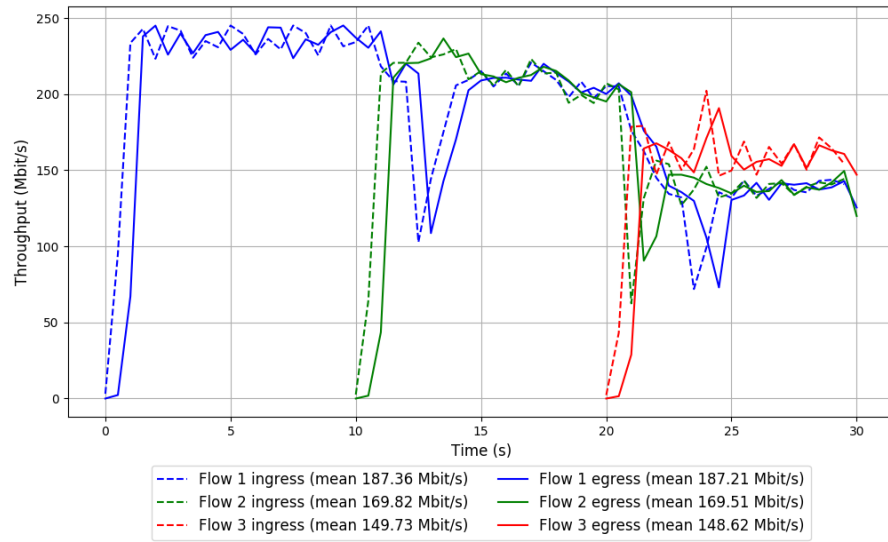
| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 10 | 190.28 | 172.61 | 138.97 | 114.98 | 120.03 | 126.72 | 0.36 | 0.64 | 1.62 |
| Copa | 10 | 101.67 | 77.03 | 69.74 | 53.61 | 56.56 | 57.33 | 0.17 | 0.45 | 1.36 |
| TCP Cubic | 10 | 160.78 | 121.35 | 102.77 | 86.05 | 89.83 | 93.26 | 0.32 | 0.84 | 2.02 |
| FillP | 10 | 615.18 | 605.69 | 543.50 | 218.07 | 219.40 | 173.26 | 0.64 | 0.81 | 1.87 |
| Indigo | 10 | 167.16 | 156.66 | 109.48 | 67.26 | 71.53 | 79.46 | 0.32 | 0.54 | 1.19 |
| LEDBAT | 10 | 32.16 | 21.43 | 11.64 | 52.32 | 52.32 | 52.74 | 0.71 | 1.06 | 2.03 |
| PCC-Allegro | 10 | 331.86 | 38.14 | 20.76 | 155.21 | 154.54 | 106.42 | 0.90 | 1.09 | 2.04 |
| PCC-Expr | 10 | 227.72 | 143.89 | 30.22 | 133.53 | 147.84 | 150.51 | 1.37 | 2.16 | 3.63 |
| QUIC Cubic | 10 | 63.15 | 63.87 | 54.05 | 50.36 | 50.55 | 52.59 | 0.37 | 0.44 | 1.26 |
| SCReAM | 10 | 0.22 | 0.22 | 0.22 | 50.50 | 50.49 | 50.52 | 0.32 | 0.59 | 1.05 |
| Sprout | 10 | 6.77 | 6.29 | 5.78 | 50.97 | 51.02 | 51.01 | 0.40 | 0.57 | 1.15 |
| TaoVA-100x | 10 | 129.43 | 122.76 | 149.72 | 51.21 | 52.30 | 53.47 | 0.18 | 0.23 | 0.71 |
| TCP Vegas | 10 | 95.94 | 58.91 | 90.73 | 52.78 | 52.80 | 52.90 | 0.31 | 0.59 | 1.26 |
| Verus | 10 | 190.48 | 133.71 | 96.72 | 145.83 | 162.82 | 180.40 | 0.45 | 0.71 | 2.57 |
| PCC-Vivace | 10 | 271.91 | 240.07 | 130.54 | 51.41 | 50.77 | 51.39 | 0.33 | 0.54 | 1.36 |
| WebRTC media | 10 | 1.96 | 1.30 | 0.52 | 50.50 | 50.46 | 50.51 | 0.37 | 0.55 | 1.44 |

Run 1: Statistics of TCP BBR

Start at: 2018-06-07 16:49:19
End at: 2018-06-07 16:49:49
Local clock offset: -0.071 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-07 20:31:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 348.87 Mbit/s
95th percentile per-packet one-way delay: 116.771 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 187.21 Mbit/s
95th percentile per-packet one-way delay: 114.160 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 169.51 Mbit/s
95th percentile per-packet one-way delay: 116.957 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 148.62 Mbit/s
95th percentile per-packet one-way delay: 121.175 ms
Loss rate: 1.65%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-07 17:11:29

End at: 2018-06-07 17:11:59

Local clock offset: 0.01 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-07 20:31:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 357.44 Mbit/s

95th percentile per-packet one-way delay: 129.847 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 190.43 Mbit/s

95th percentile per-packet one-way delay: 122.957 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 182.03 Mbit/s

95th percentile per-packet one-way delay: 133.407 ms

Loss rate: 0.67%

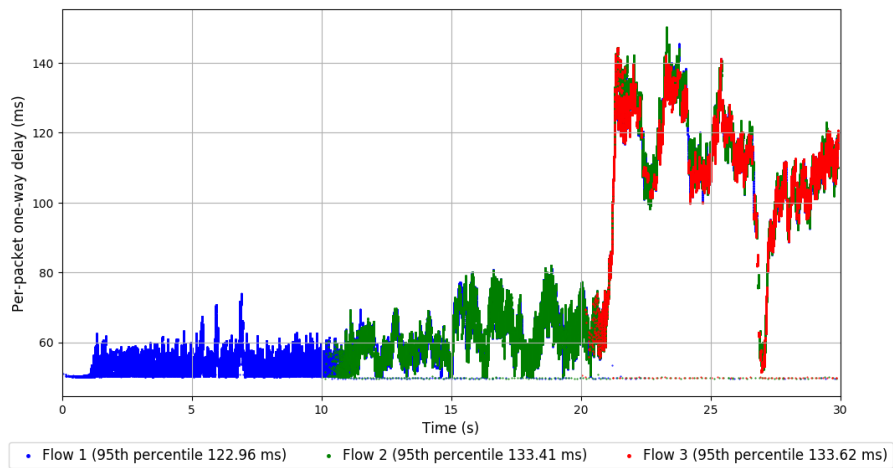
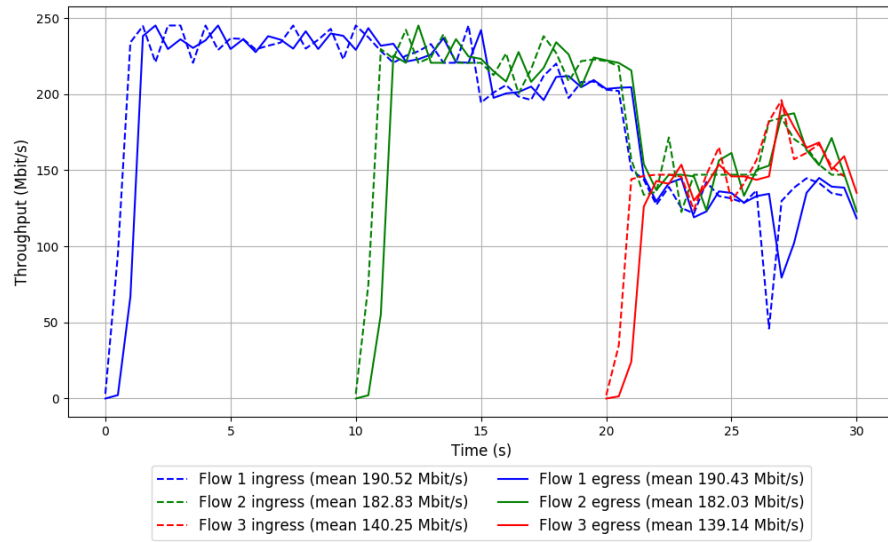
-- Flow 3:

Average throughput: 139.14 Mbit/s

95th percentile per-packet one-way delay: 133.624 ms

Loss rate: 1.75%

Run 2: Report of TCP BBR — Data Link

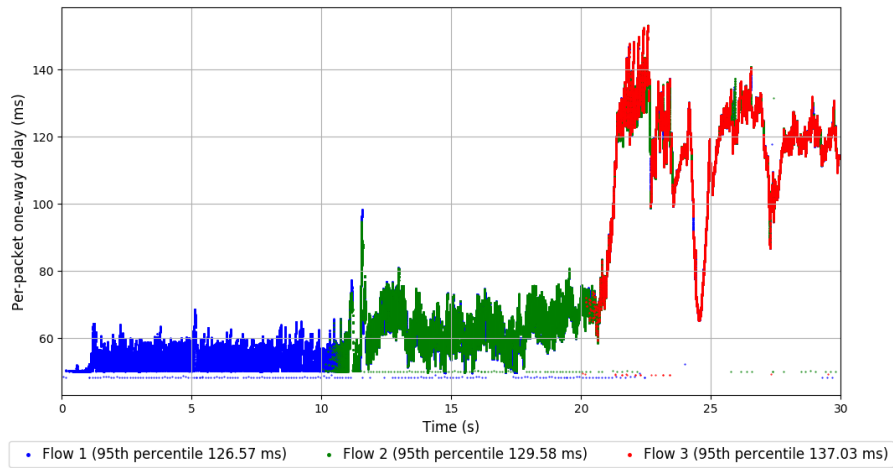
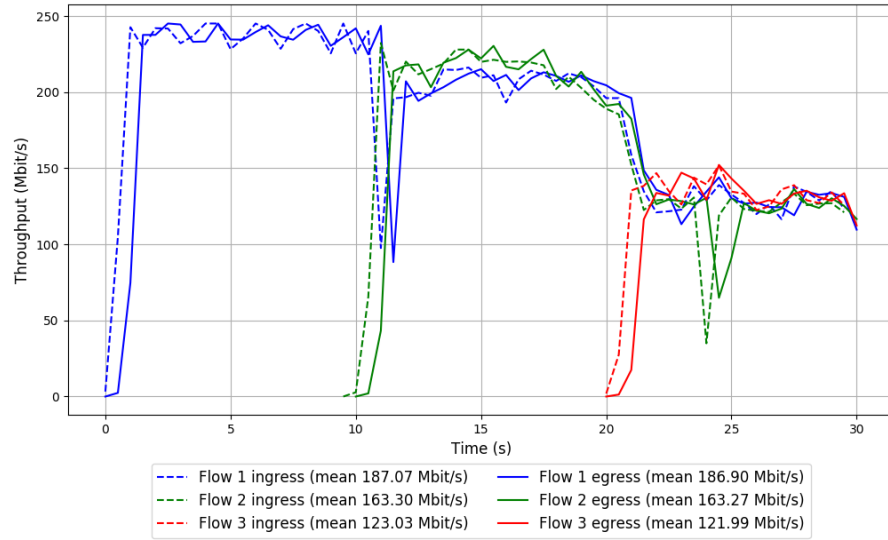


Run 3: Statistics of TCP BBR

Start at: 2018-06-07 17:33:48
End at: 2018-06-07 17:34:18
Local clock offset: -0.345 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-07 20:31:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.78 Mbit/s
95th percentile per-packet one-way delay: 130.239 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 186.90 Mbit/s
95th percentile per-packet one-way delay: 126.566 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 163.27 Mbit/s
95th percentile per-packet one-way delay: 129.578 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 121.99 Mbit/s
95th percentile per-packet one-way delay: 137.025 ms
Loss rate: 1.83%

Run 3: Report of TCP BBR — Data Link

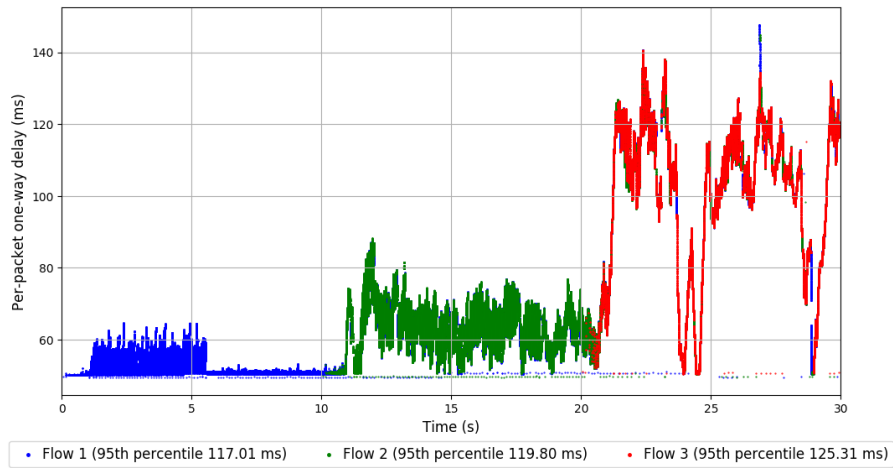
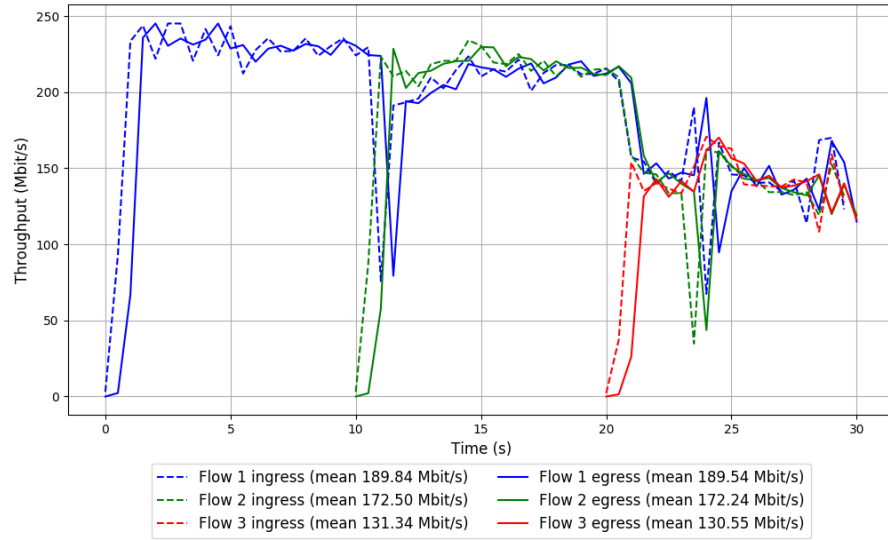


Run 4: Statistics of TCP BBR

Start at: 2018-06-07 17:55:55
End at: 2018-06-07 17:56:25
Local clock offset: -0.002 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-07 20:31:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 347.26 Mbit/s
95th percentile per-packet one-way delay: 120.328 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 189.54 Mbit/s
95th percentile per-packet one-way delay: 117.014 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 172.24 Mbit/s
95th percentile per-packet one-way delay: 119.797 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 130.55 Mbit/s
95th percentile per-packet one-way delay: 125.314 ms
Loss rate: 1.61%

Run 4: Report of TCP BBR — Data Link

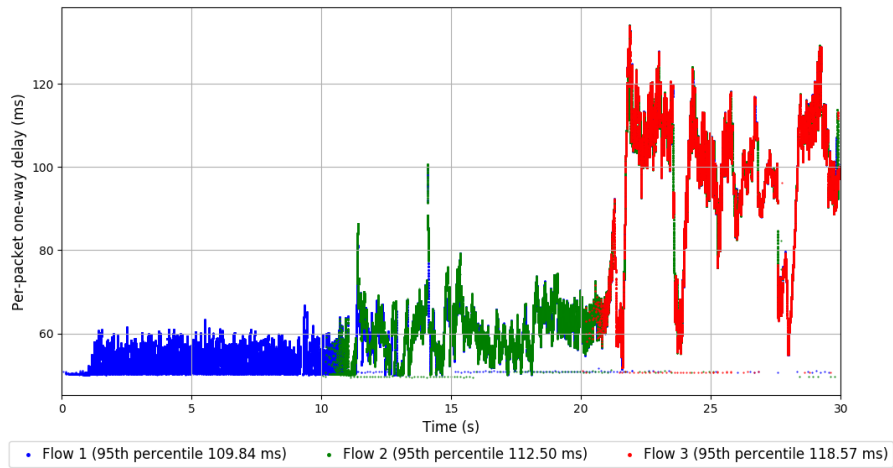
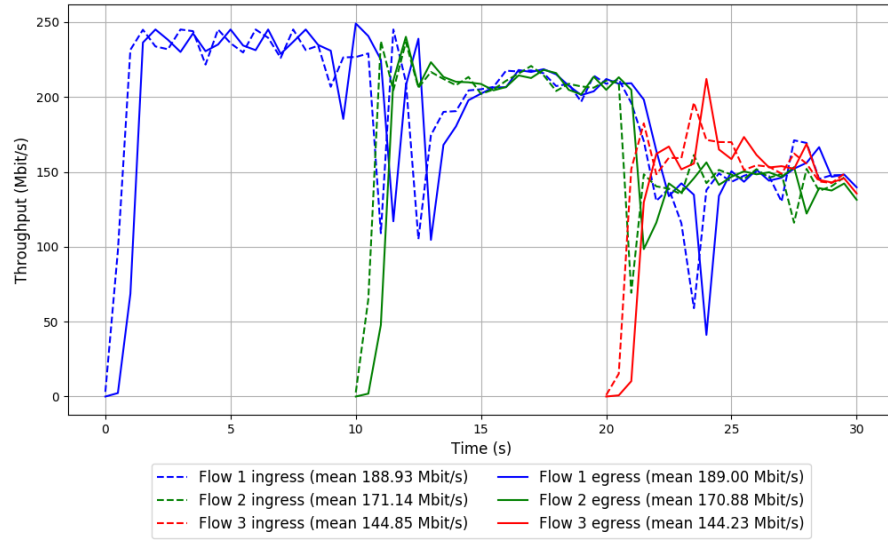


Run 5: Statistics of TCP BBR

Start at: 2018-06-07 18:18:04
End at: 2018-06-07 18:18:34
Local clock offset: 0.173 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-07 20:31:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.24 Mbit/s
95th percentile per-packet one-way delay: 112.986 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 189.00 Mbit/s
95th percentile per-packet one-way delay: 109.843 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 170.88 Mbit/s
95th percentile per-packet one-way delay: 112.496 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 144.23 Mbit/s
95th percentile per-packet one-way delay: 118.574 ms
Loss rate: 1.45%

Run 5: Report of TCP BBR — Data Link

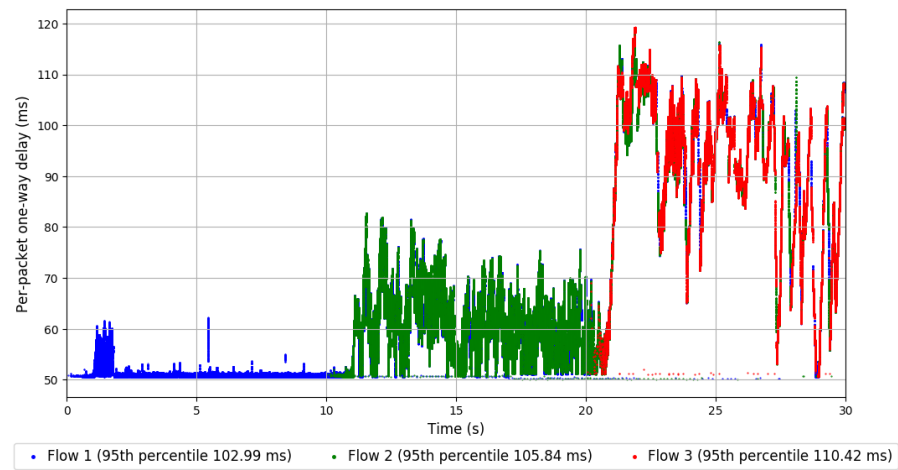
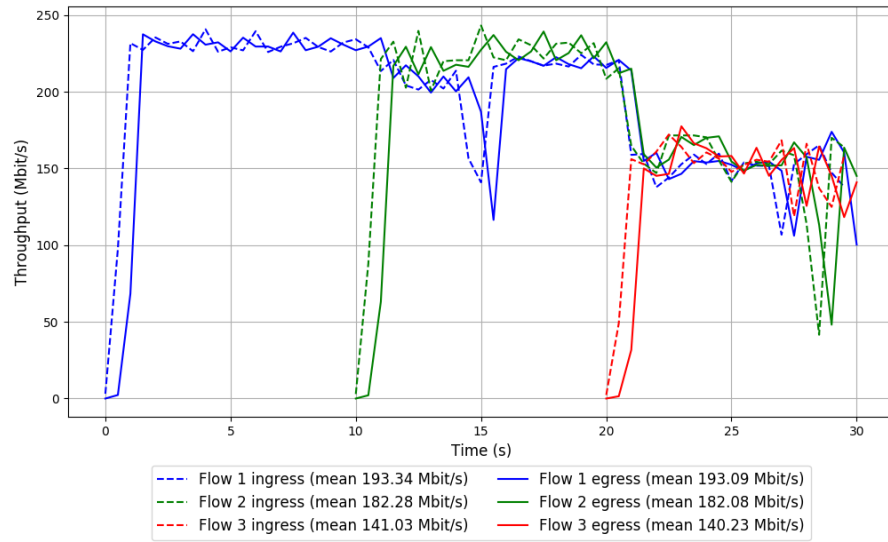


Run 6: Statistics of TCP BBR

Start at: 2018-06-07 18:40:13
End at: 2018-06-07 18:40:43
Local clock offset: 0.597 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-06-07 20:31:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 360.46 Mbit/s
95th percentile per-packet one-way delay: 106.571 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 193.09 Mbit/s
95th percentile per-packet one-way delay: 102.987 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 182.08 Mbit/s
95th percentile per-packet one-way delay: 105.837 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 140.23 Mbit/s
95th percentile per-packet one-way delay: 110.422 ms
Loss rate: 1.60%

Run 6: Report of TCP BBR — Data Link

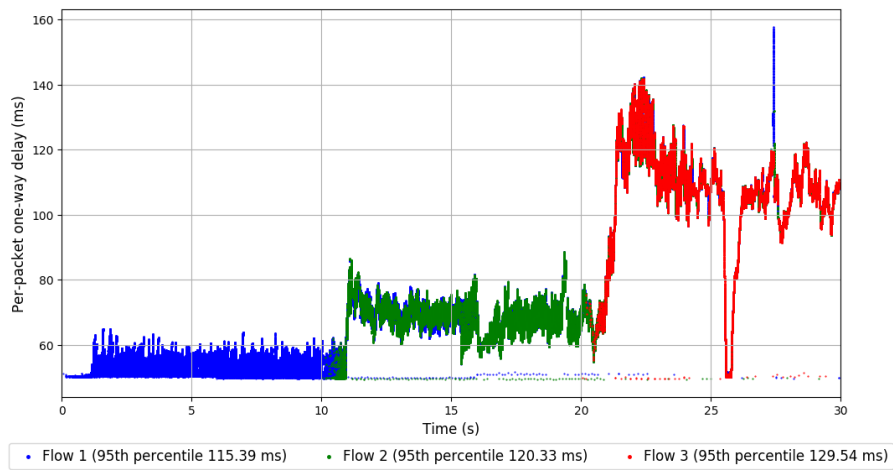
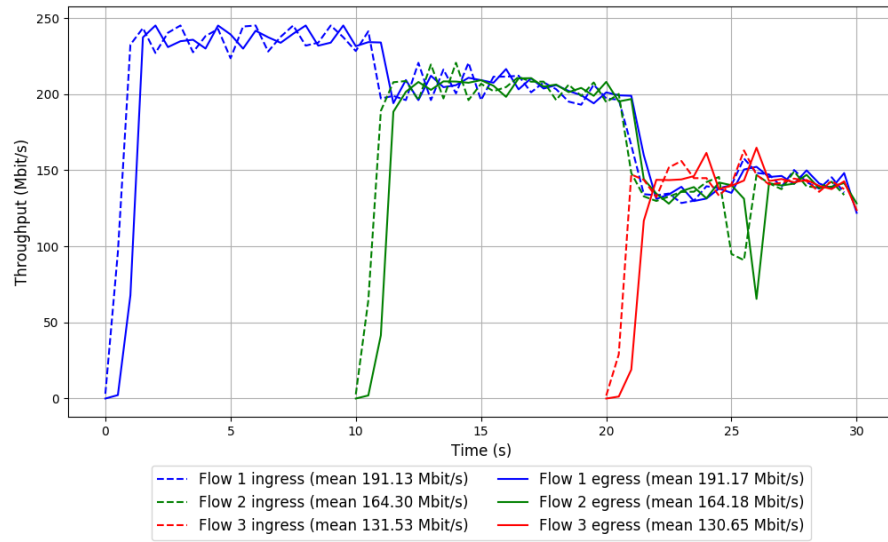


Run 7: Statistics of TCP BBR

Start at: 2018-06-07 19:02:34
End at: 2018-06-07 19:03:04
Local clock offset: 0.265 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-07 20:31:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.47 Mbit/s
95th percentile per-packet one-way delay: 120.432 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 191.17 Mbit/s
95th percentile per-packet one-way delay: 115.395 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 164.18 Mbit/s
95th percentile per-packet one-way delay: 120.331 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 130.65 Mbit/s
95th percentile per-packet one-way delay: 129.540 ms
Loss rate: 1.68%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-07 19:24:44

End at: 2018-06-07 19:25:14

Local clock offset: 0.328 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-07 20:31:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 346.42 Mbit/s

95th percentile per-packet one-way delay: 125.219 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 187.41 Mbit/s

95th percentile per-packet one-way delay: 121.971 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 170.38 Mbit/s

95th percentile per-packet one-way delay: 124.279 ms

Loss rate: 0.66%

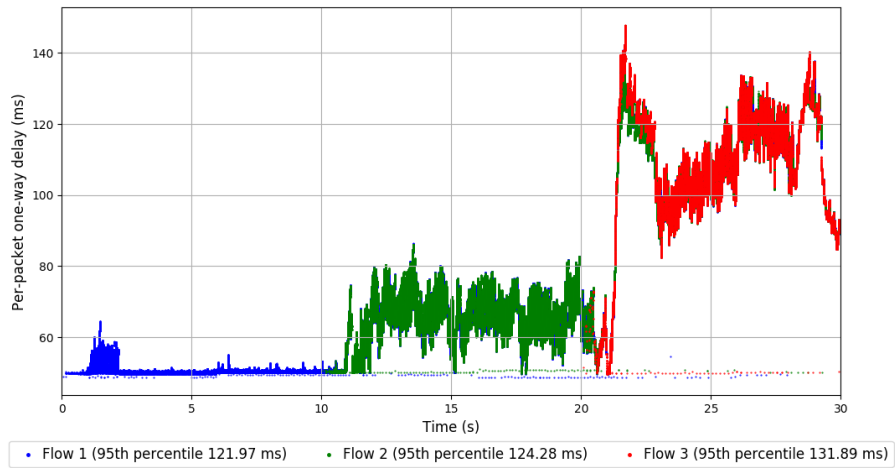
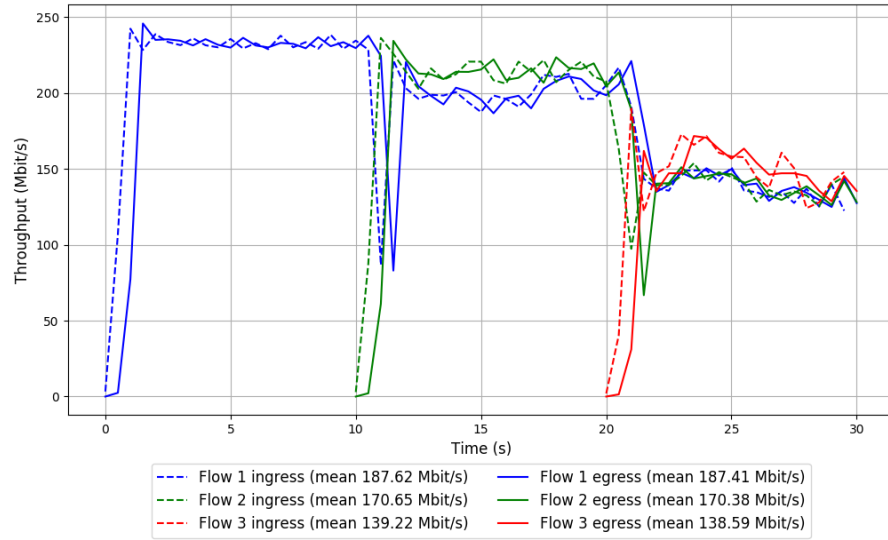
-- Flow 3:

Average throughput: 138.59 Mbit/s

95th percentile per-packet one-way delay: 131.894 ms

Loss rate: 1.47%

Run 8: Report of TCP BBR — Data Link

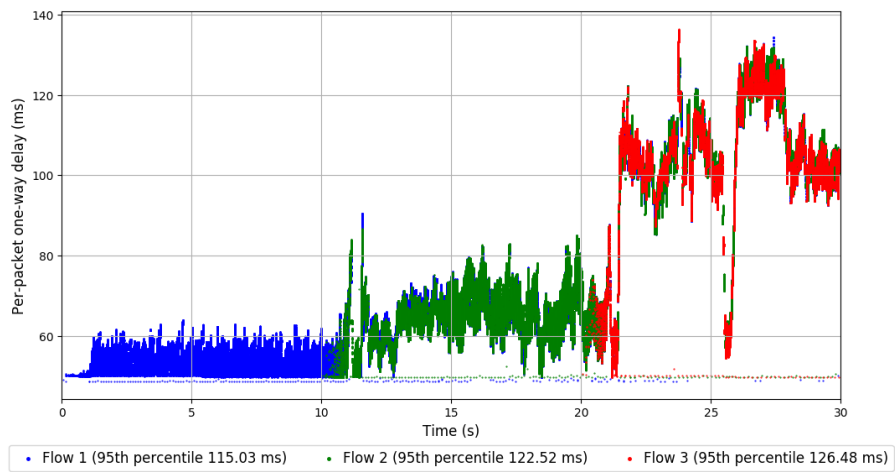
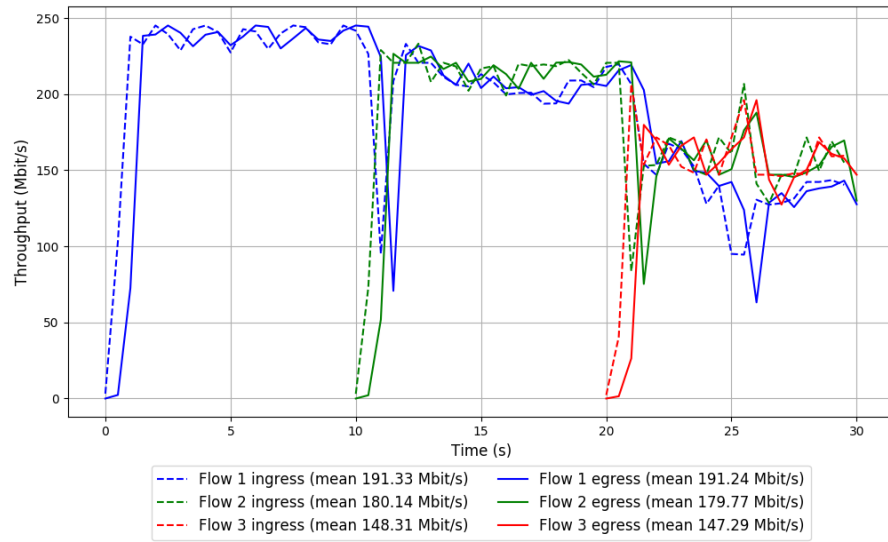


Run 9: Statistics of TCP BBR

Start at: 2018-06-07 19:46:54
End at: 2018-06-07 19:47:24
Local clock offset: 0.154 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-07 20:37:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 359.37 Mbit/s
95th percentile per-packet one-way delay: 121.716 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 191.24 Mbit/s
95th percentile per-packet one-way delay: 115.033 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 179.77 Mbit/s
95th percentile per-packet one-way delay: 122.520 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 147.29 Mbit/s
95th percentile per-packet one-way delay: 126.478 ms
Loss rate: 1.66%

Run 9: Report of TCP BBR — Data Link

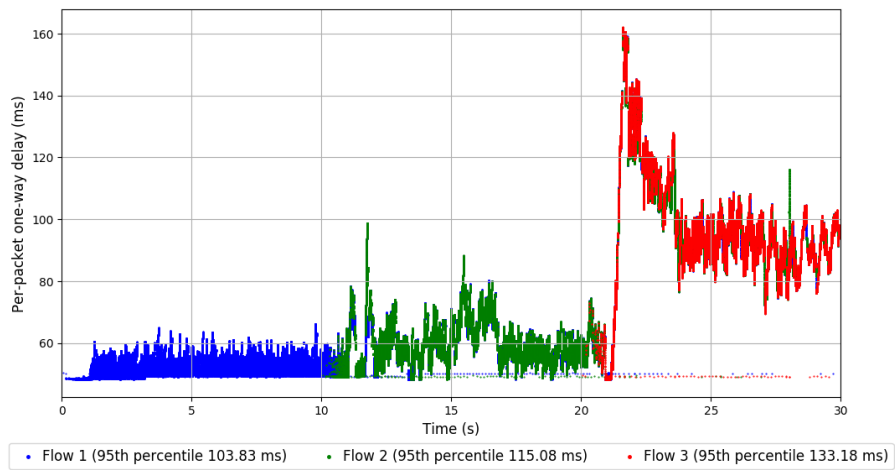
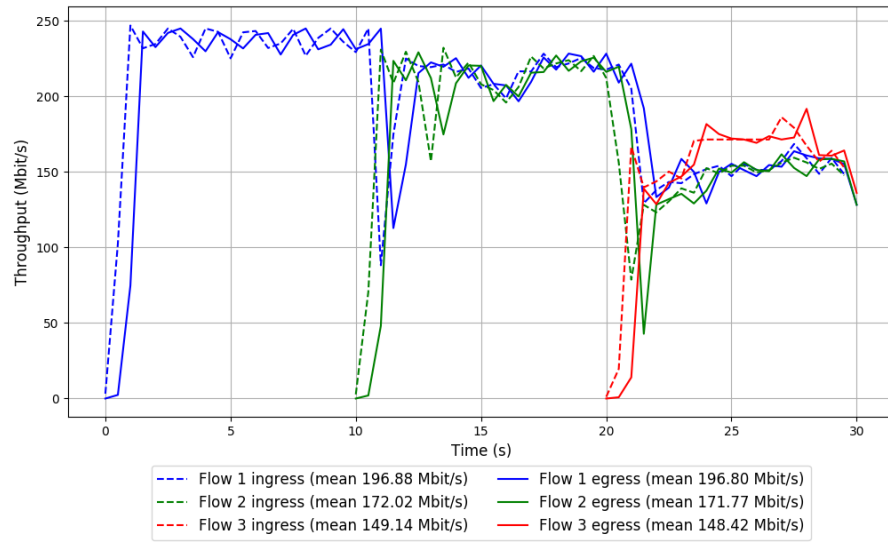


Run 10: Statistics of TCP BBR

Start at: 2018-06-07 20:08:56
End at: 2018-06-07 20:09:26
Local clock offset: -0.468 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-07 20:37:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 360.02 Mbit/s
95th percentile per-packet one-way delay: 115.148 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 196.80 Mbit/s
95th percentile per-packet one-way delay: 103.835 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 171.77 Mbit/s
95th percentile per-packet one-way delay: 115.077 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 148.42 Mbit/s
95th percentile per-packet one-way delay: 133.179 ms
Loss rate: 1.49%

Run 10: Report of TCP BBR — Data Link

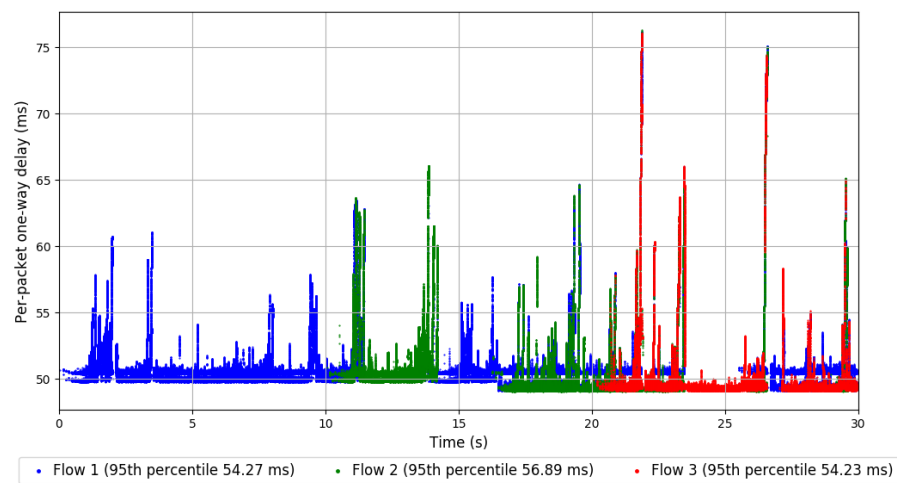
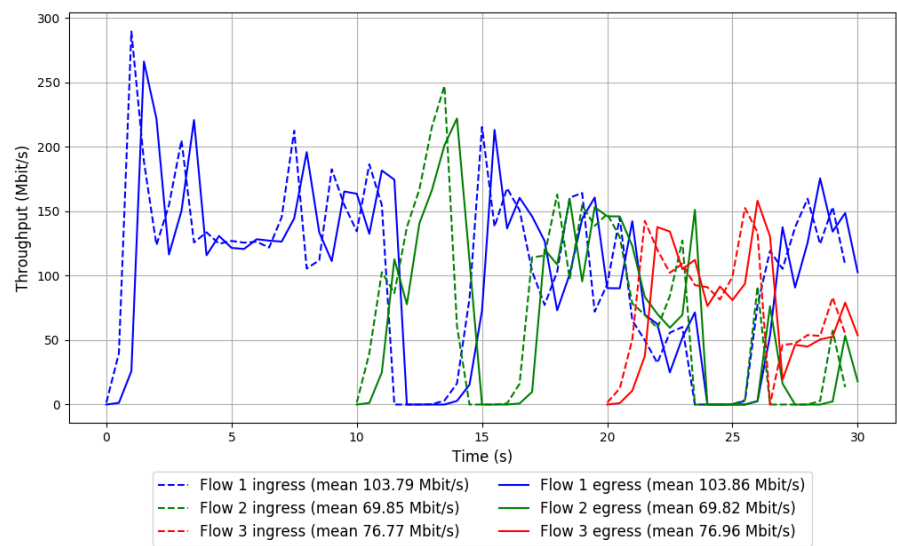


Run 1: Statistics of Copa

Start at: 2018-06-07 16:42:43
End at: 2018-06-07 16:43:13
Local clock offset: -0.451 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-06-07 20:37:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 174.86 Mbit/s
95th percentile per-packet one-way delay: 54.987 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 103.86 Mbit/s
95th percentile per-packet one-way delay: 54.273 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 69.82 Mbit/s
95th percentile per-packet one-way delay: 56.886 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 54.229 ms
Loss rate: 0.76%

Run 1: Report of Copa — Data Link

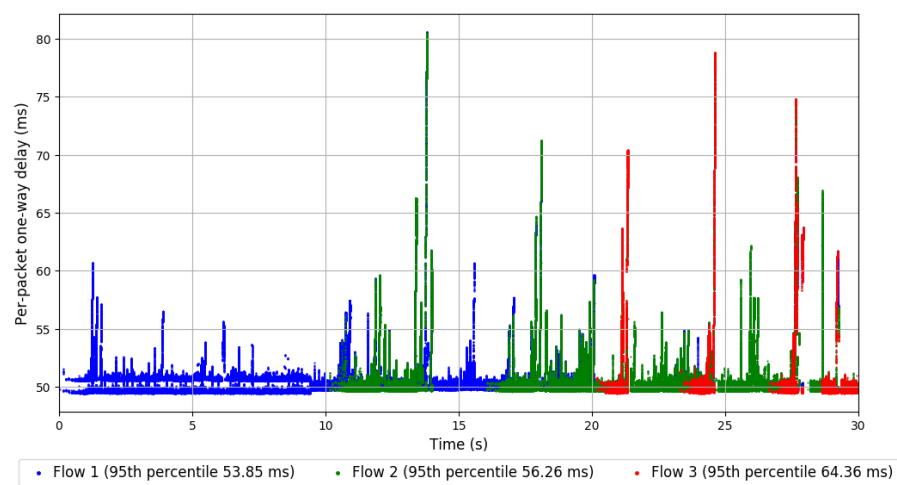
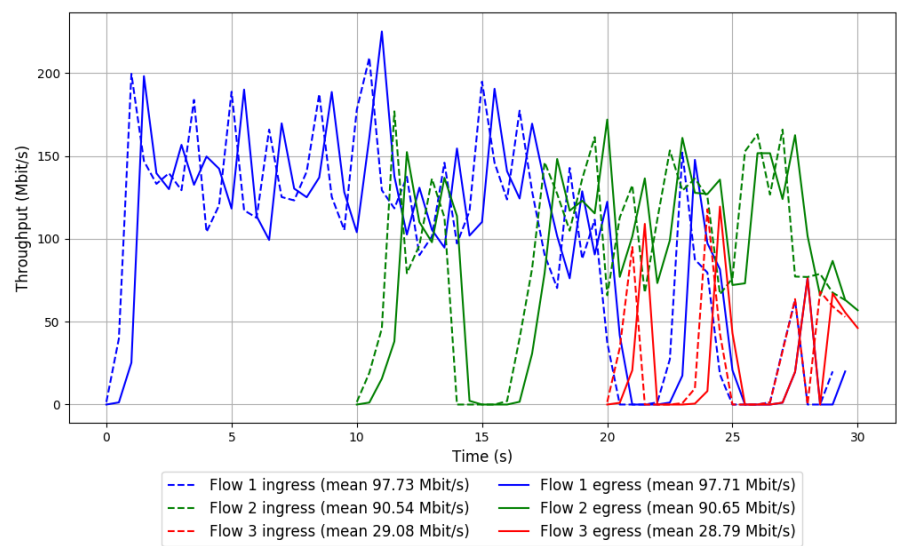


Run 2: Statistics of Copa

Start at: 2018-06-07 17:04:50
End at: 2018-06-07 17:05:20
Local clock offset: -0.005 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-07 20:37:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 165.28 Mbit/s
95th percentile per-packet one-way delay: 55.321 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 97.71 Mbit/s
95th percentile per-packet one-way delay: 53.853 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 56.257 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 64.360 ms
Loss rate: 2.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-07 17:27:01

End at: 2018-06-07 17:27:31

Local clock offset: -0.381 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-07 20:37:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.39 Mbit/s

95th percentile per-packet one-way delay: 52.182 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 136.40 Mbit/s

95th percentile per-packet one-way delay: 51.646 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 53.288 ms

Loss rate: 0.00%

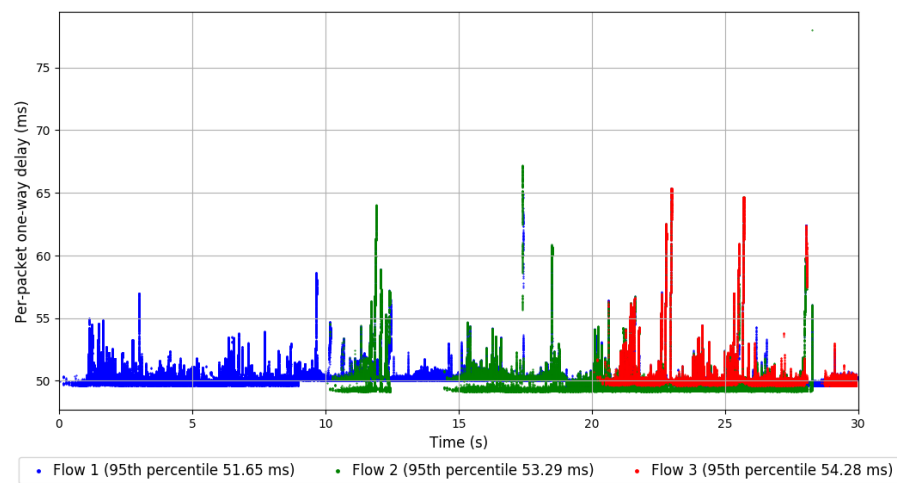
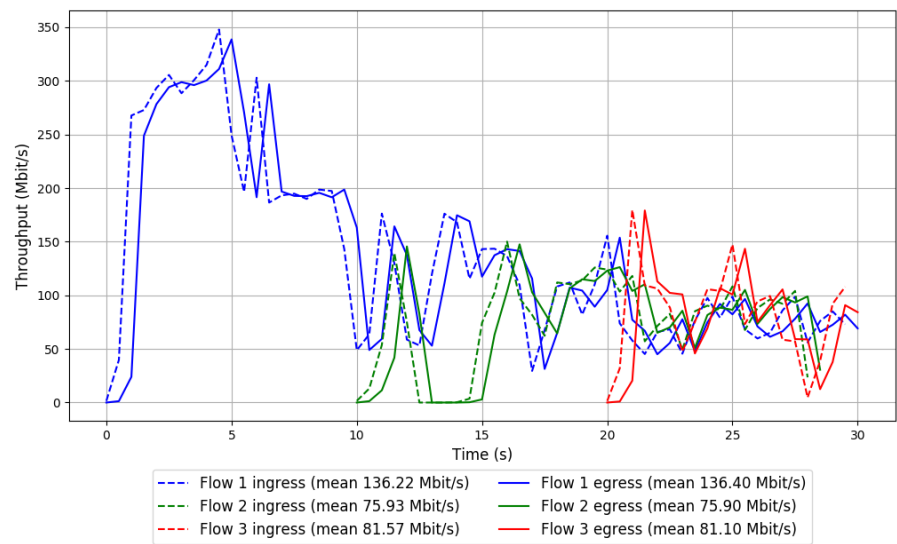
-- Flow 3:

Average throughput: 81.10 Mbit/s

95th percentile per-packet one-way delay: 54.281 ms

Loss rate: 1.61%

Run 3: Report of Copa — Data Link

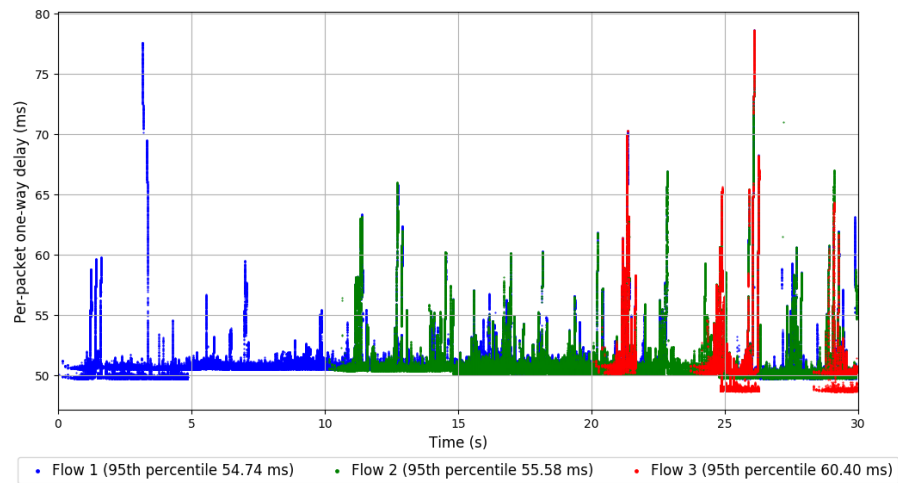
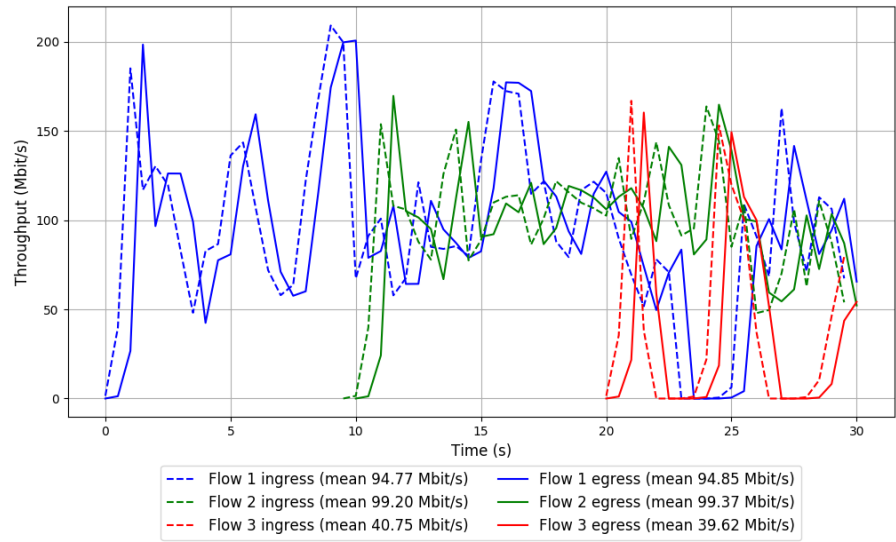


Run 4: Statistics of Copa

Start at: 2018-06-07 17:49:15
End at: 2018-06-07 17:49:45
Local clock offset: 0.021 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-07 20:37:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 174.01 Mbit/s
95th percentile per-packet one-way delay: 55.636 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 54.742 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 99.37 Mbit/s
95th percentile per-packet one-way delay: 55.576 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 39.62 Mbit/s
95th percentile per-packet one-way delay: 60.397 ms
Loss rate: 3.74%

Run 4: Report of Copa — Data Link

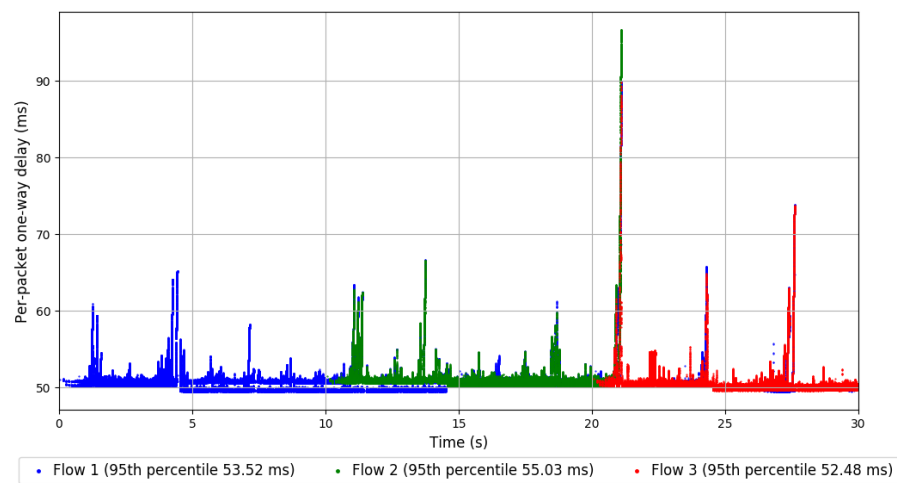
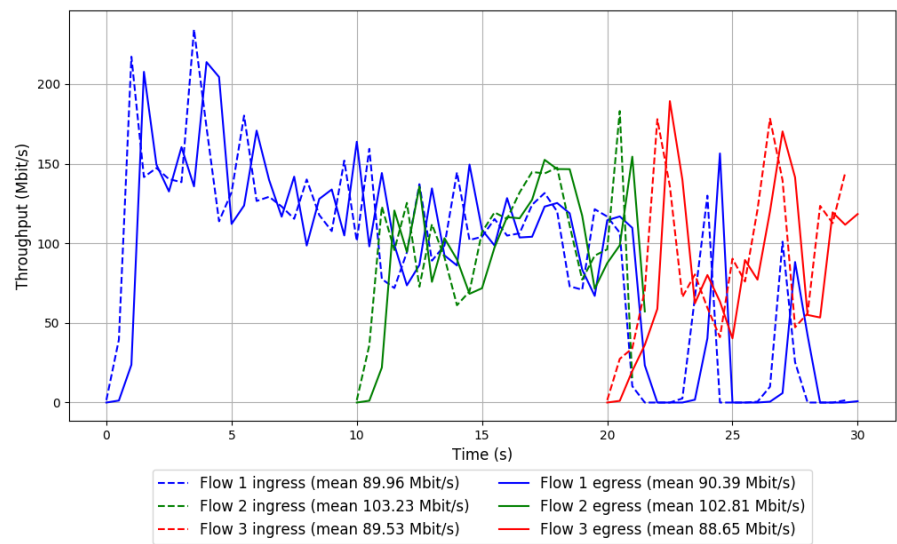


Run 5: Statistics of Copa

Start at: 2018-06-07 18:11:25
End at: 2018-06-07 18:11:55
Local clock offset: 0.116 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-06-07 20:37:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.42 Mbit/s
95th percentile per-packet one-way delay: 53.588 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 90.39 Mbit/s
95th percentile per-packet one-way delay: 53.515 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 102.81 Mbit/s
95th percentile per-packet one-way delay: 55.030 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 88.65 Mbit/s
95th percentile per-packet one-way delay: 52.482 ms
Loss rate: 1.99%

Run 5: Report of Copa — Data Link

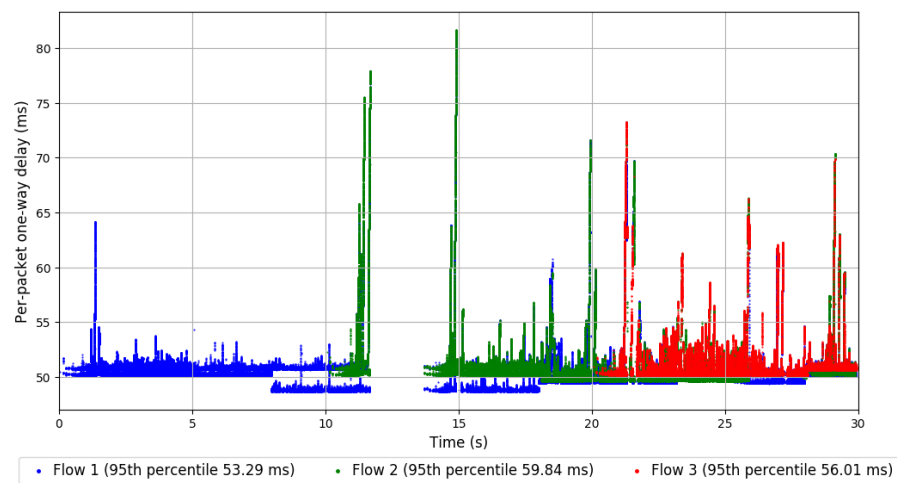
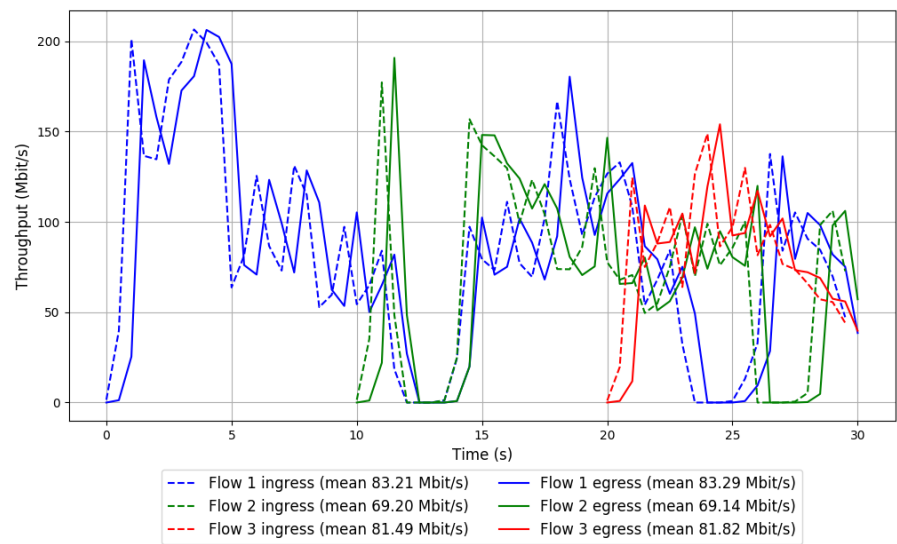


Run 6: Statistics of Copa

Start at: 2018-06-07 18:33:32
End at: 2018-06-07 18:34:02
Local clock offset: 0.204 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-07 20:37:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.10 Mbit/s
95th percentile per-packet one-way delay: 55.292 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 83.29 Mbit/s
95th percentile per-packet one-way delay: 53.294 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 69.14 Mbit/s
95th percentile per-packet one-way delay: 59.837 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 81.82 Mbit/s
95th percentile per-packet one-way delay: 56.009 ms
Loss rate: 0.60%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-07 18:55:56

End at: 2018-06-07 18:56:26

Local clock offset: 0.277 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-07 20:41:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.13 Mbit/s

95th percentile per-packet one-way delay: 56.585 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 103.63 Mbit/s

95th percentile per-packet one-way delay: 53.630 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 48.57 Mbit/s

95th percentile per-packet one-way delay: 59.954 ms

Loss rate: 1.54%

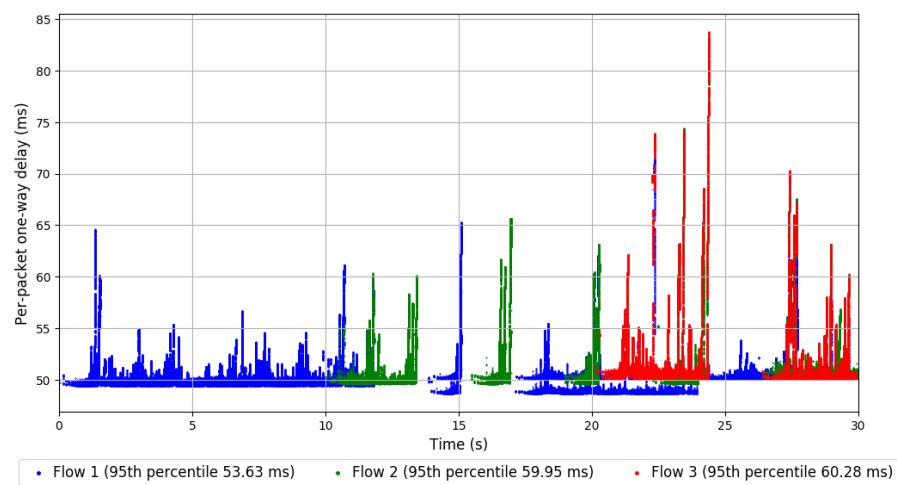
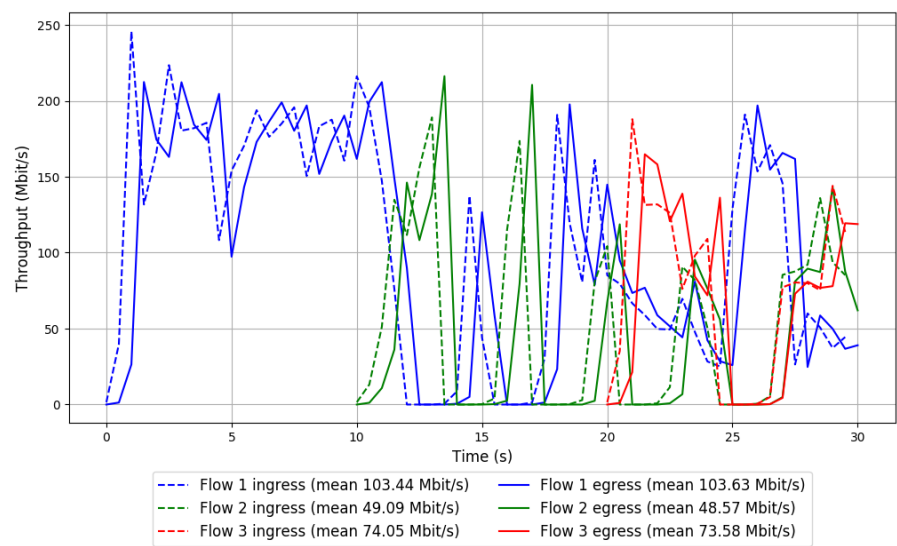
-- Flow 3:

Average throughput: 73.58 Mbit/s

95th percentile per-packet one-way delay: 60.276 ms

Loss rate: 1.66%

Run 7: Report of Copa — Data Link

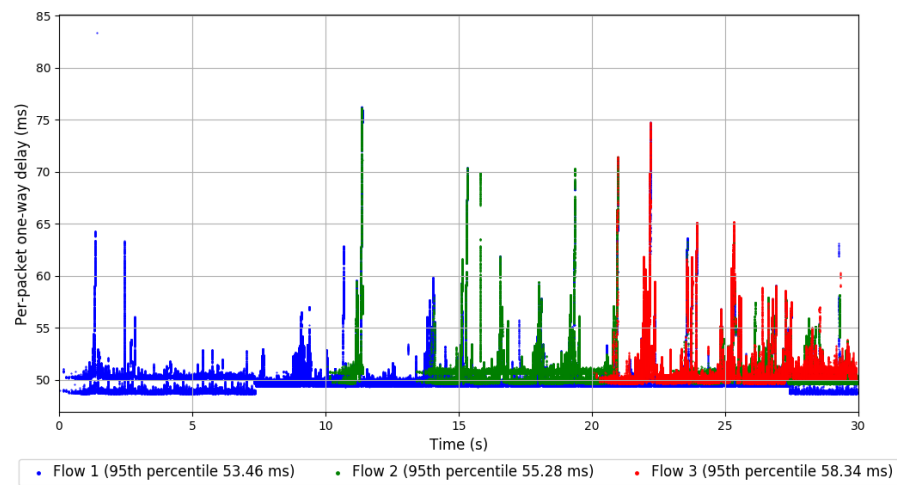
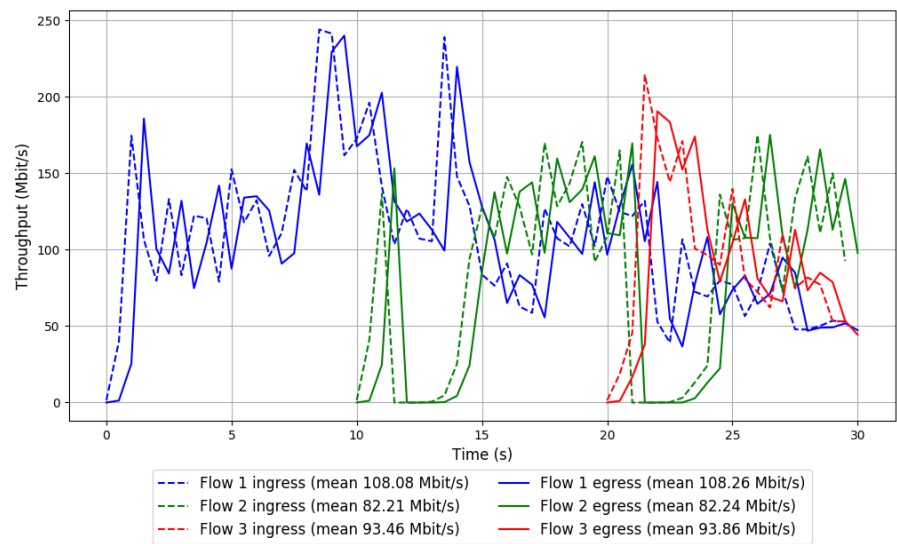


Run 8: Statistics of Copa

Start at: 2018-06-07 19:18:02
End at: 2018-06-07 19:18:32
Local clock offset: 0.287 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-07 20:42:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 193.90 Mbit/s
95th percentile per-packet one-way delay: 55.065 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 108.26 Mbit/s
95th percentile per-packet one-way delay: 53.464 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 55.277 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 58.342 ms
Loss rate: 0.60%

Run 8: Report of Copa — Data Link

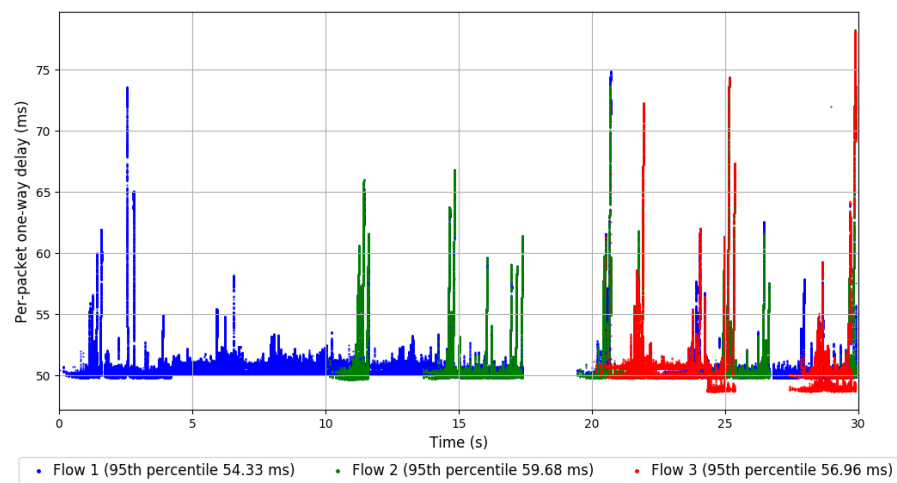
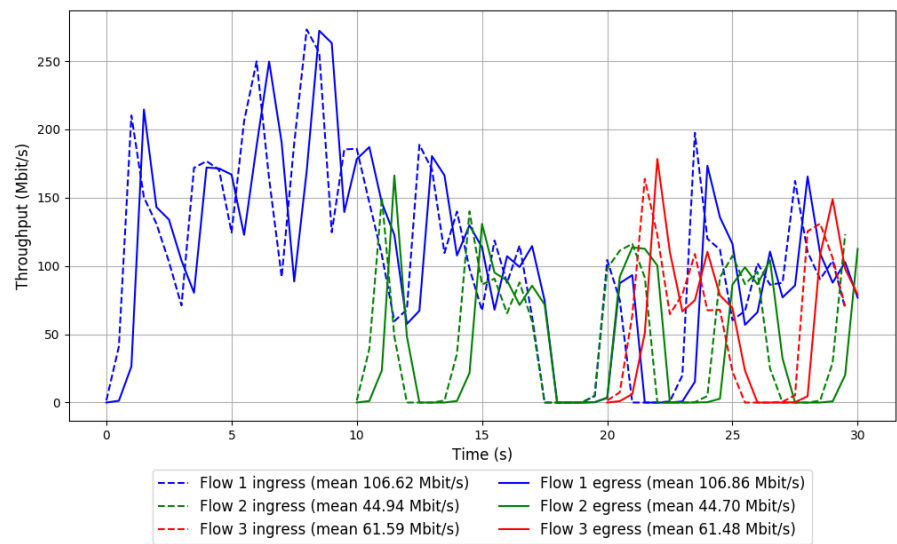


Run 9: Statistics of Copa

Start at: 2018-06-07 19:40:16
End at: 2018-06-07 19:40:46
Local clock offset: 0.321 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-07 20:42:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.79 Mbit/s
95th percentile per-packet one-way delay: 55.994 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 106.86 Mbit/s
95th percentile per-packet one-way delay: 54.327 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 44.70 Mbit/s
95th percentile per-packet one-way delay: 59.680 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 61.48 Mbit/s
95th percentile per-packet one-way delay: 56.960 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-07 20:02:15

End at: 2018-06-07 20:02:45

Local clock offset: 0.347 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-07 20:42:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 171.06 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 53.343 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 53.773 ms

Loss rate: 0.00%

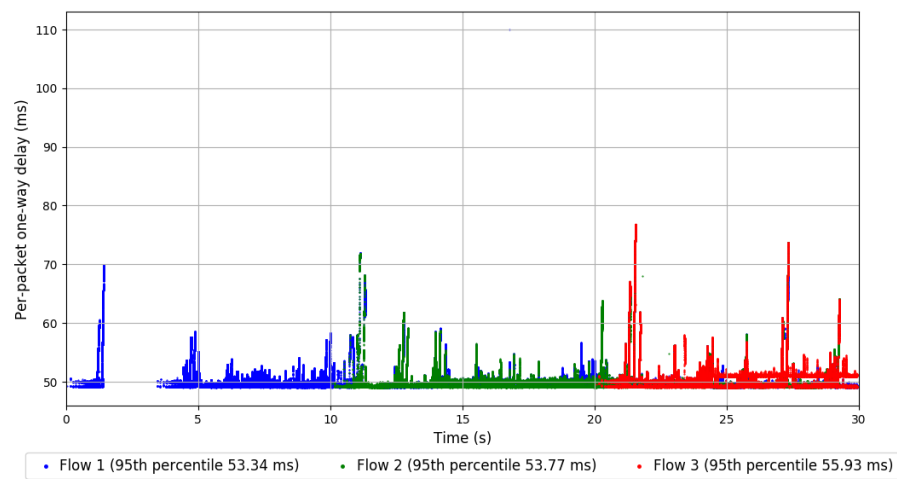
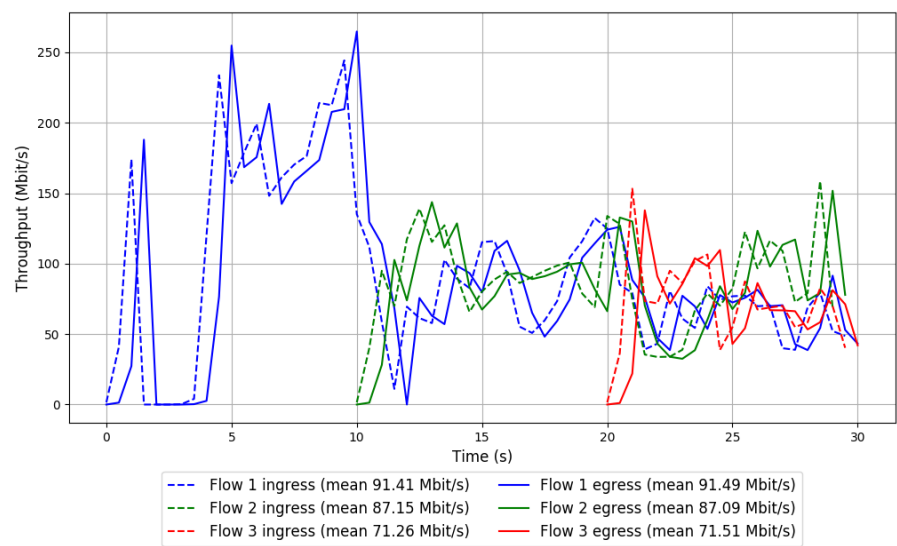
-- Flow 3:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 55.930 ms

Loss rate: 0.63%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-07 16:45:26

End at: 2018-06-07 16:45:56

Local clock offset: -0.071 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-07 20:42:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 288.59 Mbit/s

95th percentile per-packet one-way delay: 59.489 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 185.74 Mbit/s

95th percentile per-packet one-way delay: 58.864 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 152.26 Mbit/s

95th percentile per-packet one-way delay: 60.200 ms

Loss rate: 0.68%

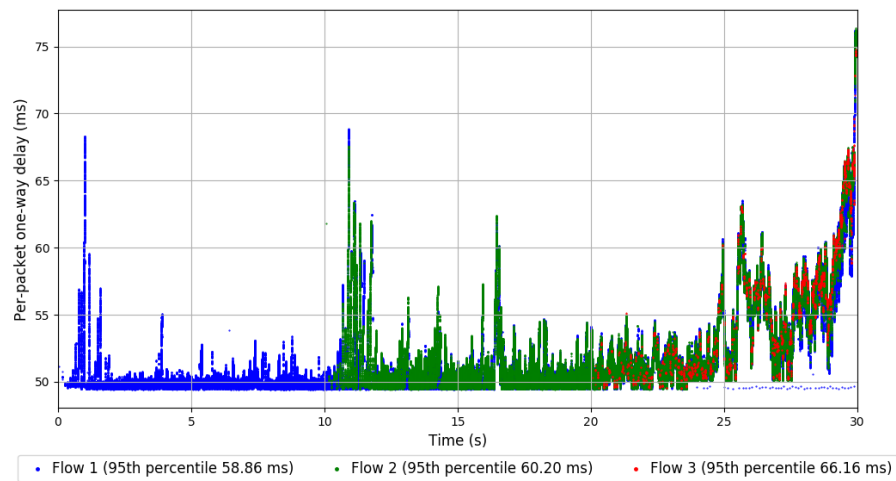
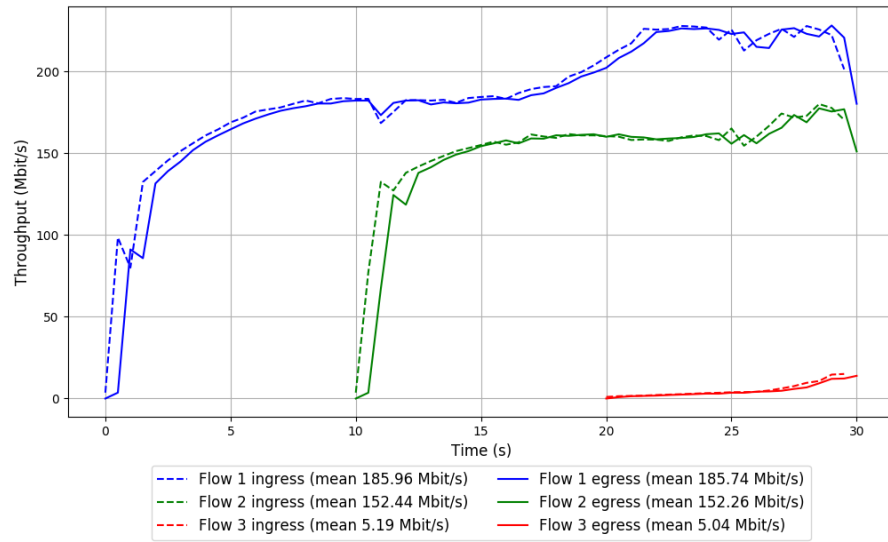
-- Flow 3:

Average throughput: 5.04 Mbit/s

95th percentile per-packet one-way delay: 66.163 ms

Loss rate: 3.87%

Run 1: Report of TCP Cubic — Data Link

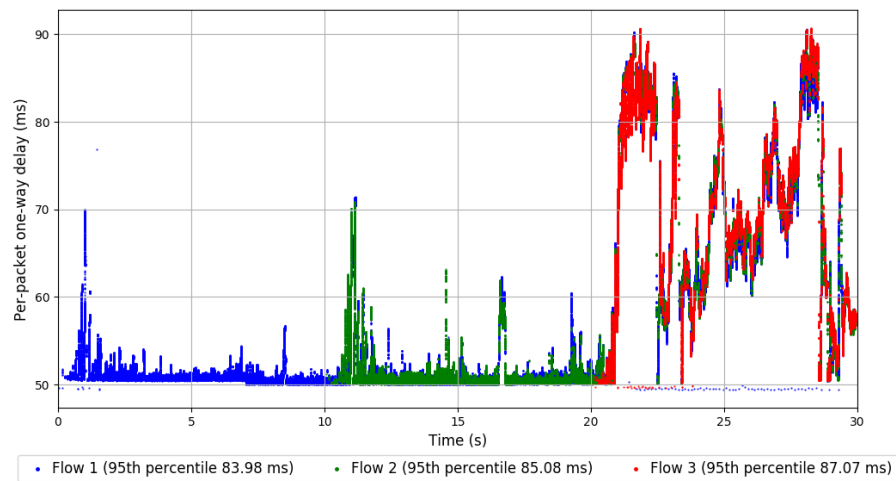
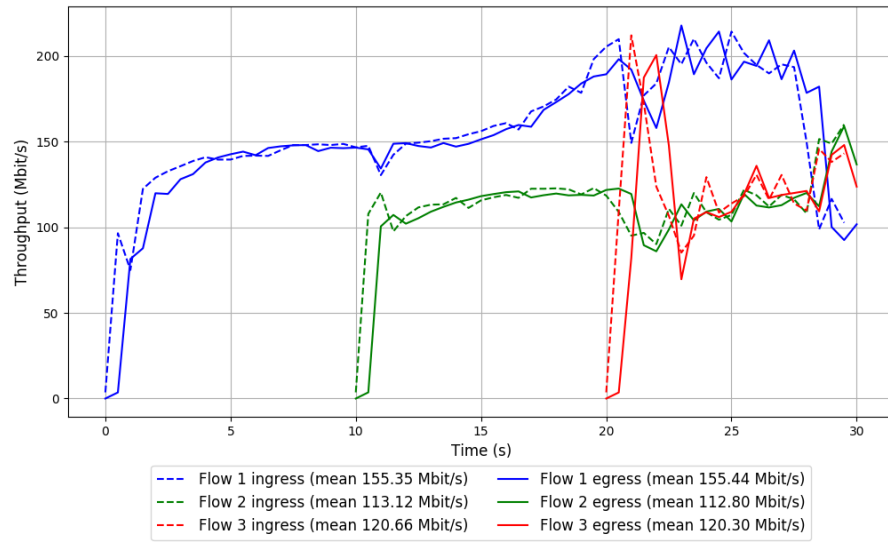


Run 2: Statistics of TCP Cubic

Start at: 2018-06-07 17:07:33
End at: 2018-06-07 17:08:03
Local clock offset: -0.019 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-07 20:42:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 270.20 Mbit/s
95th percentile per-packet one-way delay: 85.082 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 155.44 Mbit/s
95th percentile per-packet one-way delay: 83.984 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 112.80 Mbit/s
95th percentile per-packet one-way delay: 85.079 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 120.30 Mbit/s
95th percentile per-packet one-way delay: 87.074 ms
Loss rate: 1.29%

Run 2: Report of TCP Cubic — Data Link

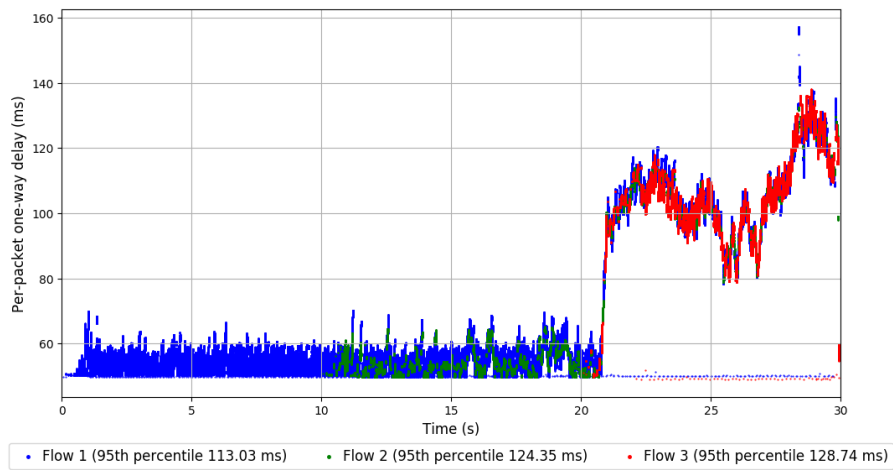
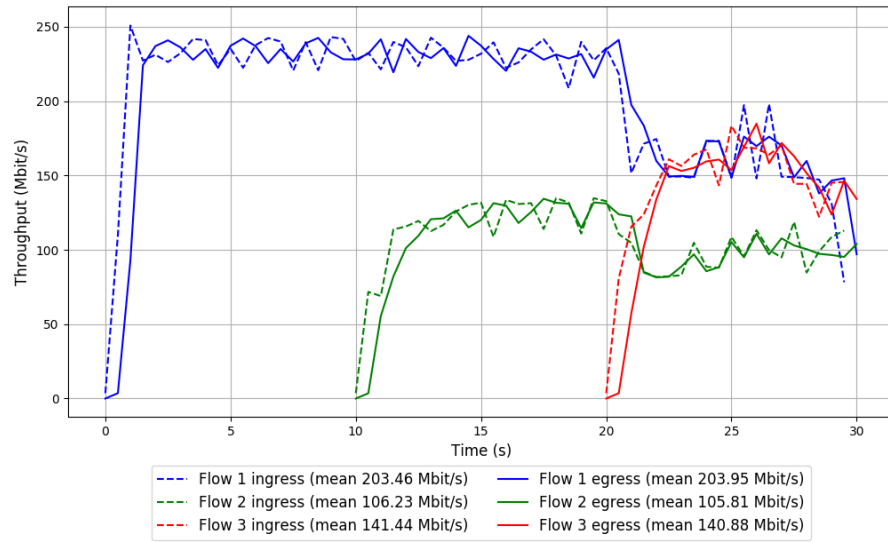


Run 3: Statistics of TCP Cubic

Start at: 2018-06-07 17:29:48
End at: 2018-06-07 17:30:18
Local clock offset: -0.349 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-07 20:42:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.48 Mbit/s
95th percentile per-packet one-way delay: 121.269 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 203.95 Mbit/s
95th percentile per-packet one-way delay: 113.025 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 105.81 Mbit/s
95th percentile per-packet one-way delay: 124.346 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 140.88 Mbit/s
95th percentile per-packet one-way delay: 128.738 ms
Loss rate: 1.27%

Run 3: Report of TCP Cubic — Data Link

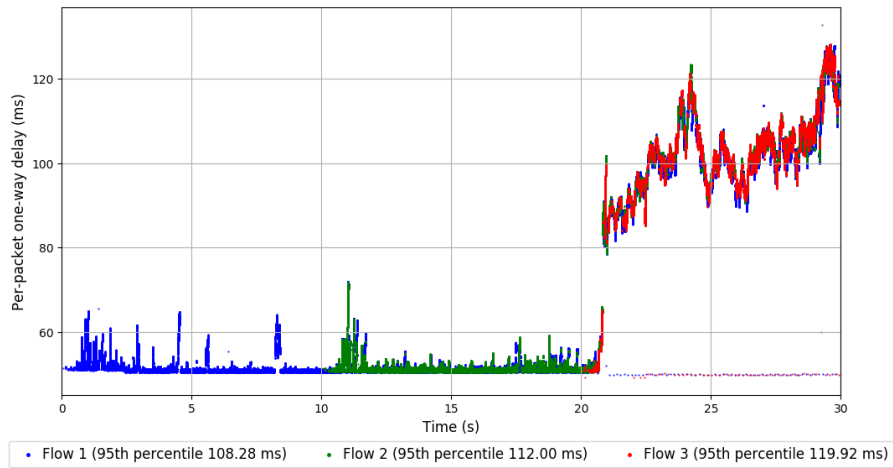
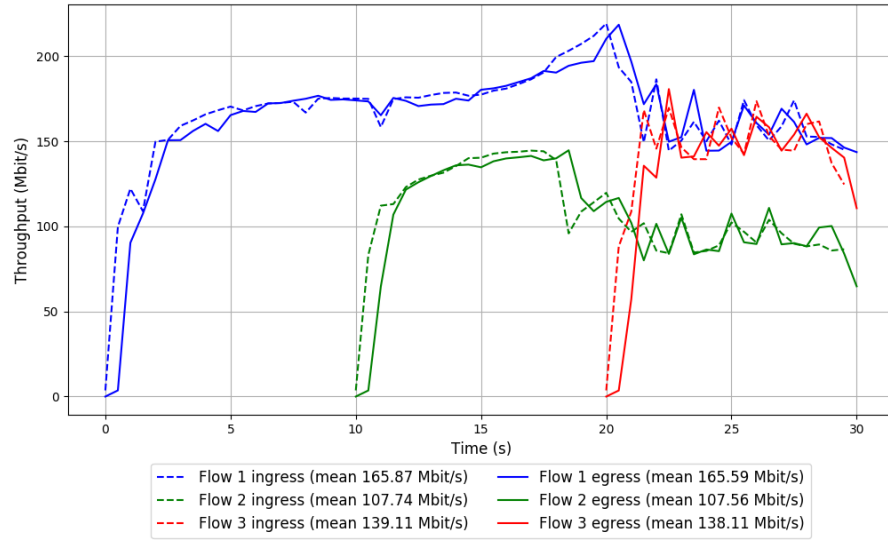


Run 4: Statistics of TCP Cubic

Start at: 2018-06-07 17:51:57
End at: 2018-06-07 17:52:27
Local clock offset: 0.434 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-07 20:42:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 282.63 Mbit/s
95th percentile per-packet one-way delay: 112.488 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 165.59 Mbit/s
95th percentile per-packet one-way delay: 108.282 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 107.56 Mbit/s
95th percentile per-packet one-way delay: 111.995 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 138.11 Mbit/s
95th percentile per-packet one-way delay: 119.925 ms
Loss rate: 1.72%

Run 4: Report of TCP Cubic — Data Link

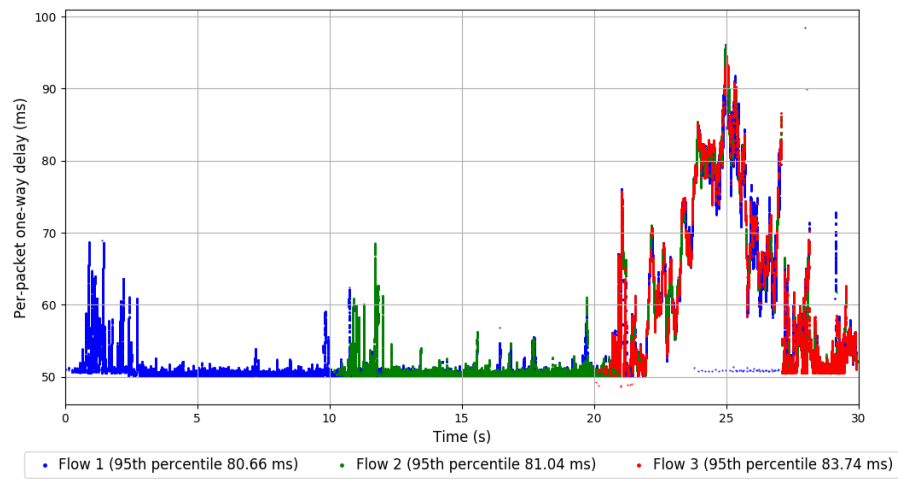
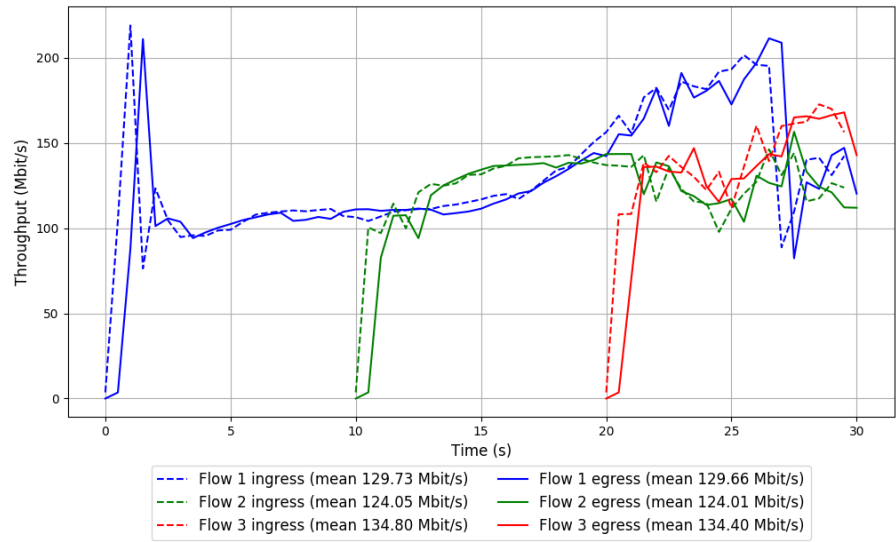


Run 5: Statistics of TCP Cubic

Start at: 2018-06-07 18:14:07
End at: 2018-06-07 18:14:37
Local clock offset: 0.141 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-07 20:45:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 256.39 Mbit/s
95th percentile per-packet one-way delay: 81.453 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 129.66 Mbit/s
95th percentile per-packet one-way delay: 80.658 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 124.01 Mbit/s
95th percentile per-packet one-way delay: 81.044 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 134.40 Mbit/s
95th percentile per-packet one-way delay: 83.738 ms
Loss rate: 1.30%

Run 5: Report of TCP Cubic — Data Link

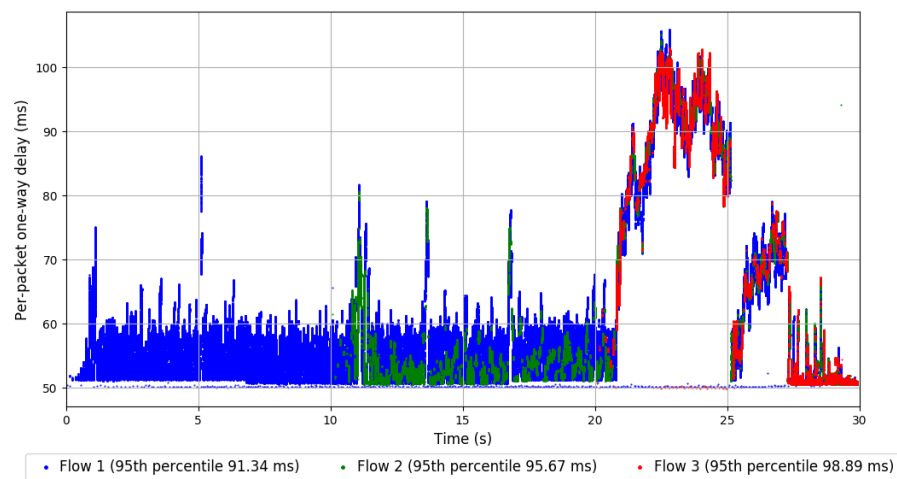
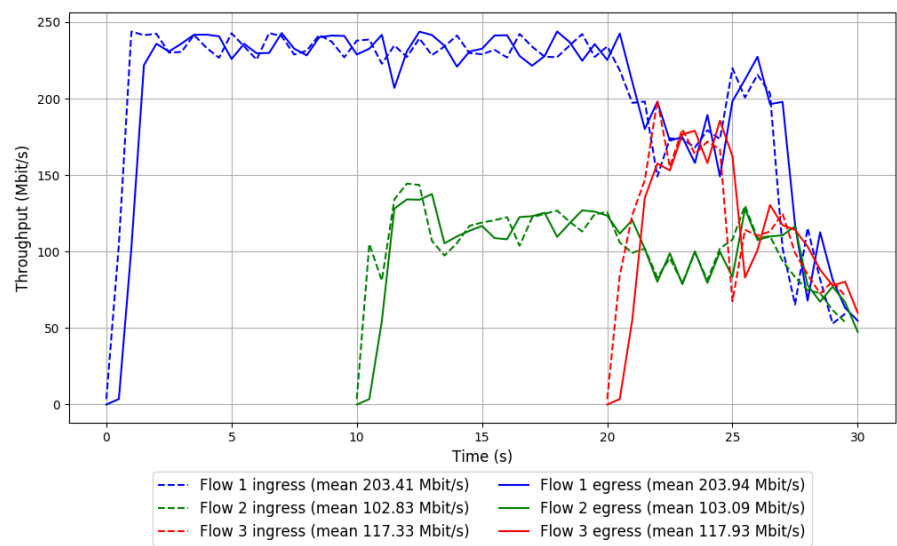


Run 6: Statistics of TCP Cubic

Start at: 2018-06-07 18:36:13
End at: 2018-06-07 18:36:43
Local clock offset: 0.6 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-06-07 20:46:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 311.22 Mbit/s
95th percentile per-packet one-way delay: 95.030 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 203.94 Mbit/s
95th percentile per-packet one-way delay: 91.339 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 103.09 Mbit/s
95th percentile per-packet one-way delay: 95.670 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 117.93 Mbit/s
95th percentile per-packet one-way delay: 98.895 ms
Loss rate: 0.51%

Run 6: Report of TCP Cubic — Data Link

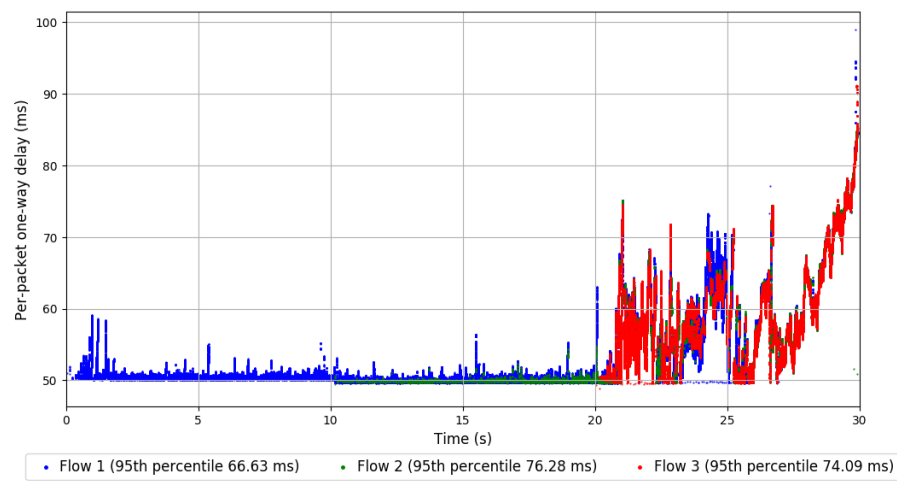
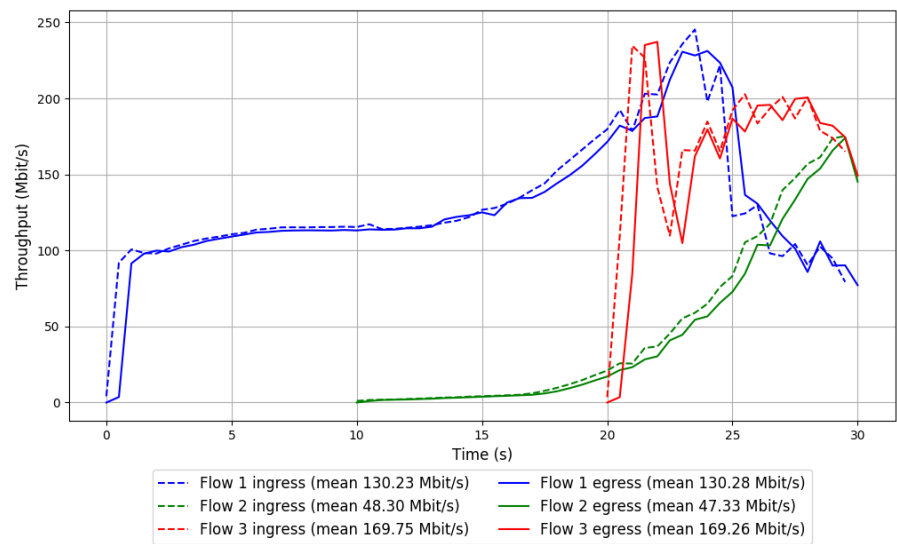


Run 7: Statistics of TCP Cubic

Start at: 2018-06-07 18:58:39
End at: 2018-06-07 18:59:10
Local clock offset: 0.245 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-07 20:46:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 217.65 Mbit/s
95th percentile per-packet one-way delay: 72.181 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 130.28 Mbit/s
95th percentile per-packet one-way delay: 66.634 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 47.33 Mbit/s
95th percentile per-packet one-way delay: 76.277 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 169.26 Mbit/s
95th percentile per-packet one-way delay: 74.087 ms
Loss rate: 1.28%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-07 19:20:48

End at: 2018-06-07 19:21:18

Local clock offset: 0.666 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-07 20:46:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.14 Mbit/s

95th percentile per-packet one-way delay: 58.448 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 158.09 Mbit/s

95th percentile per-packet one-way delay: 58.735 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 129.72 Mbit/s

95th percentile per-packet one-way delay: 57.803 ms

Loss rate: 0.72%

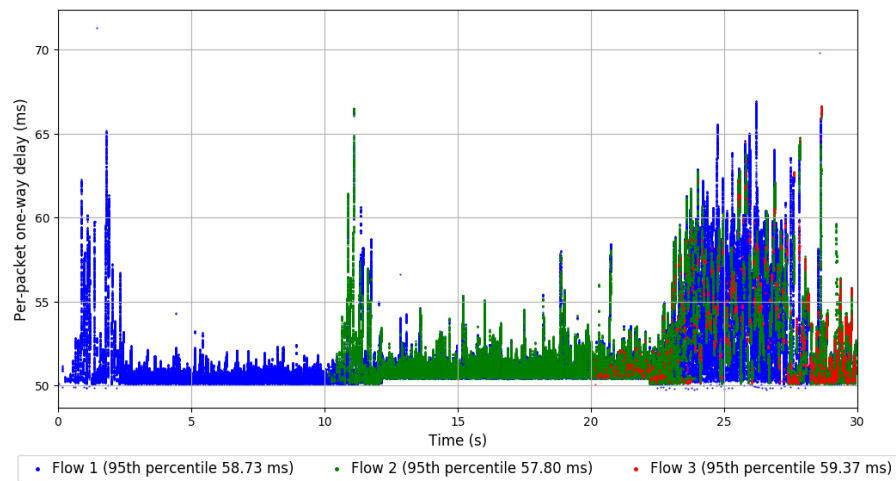
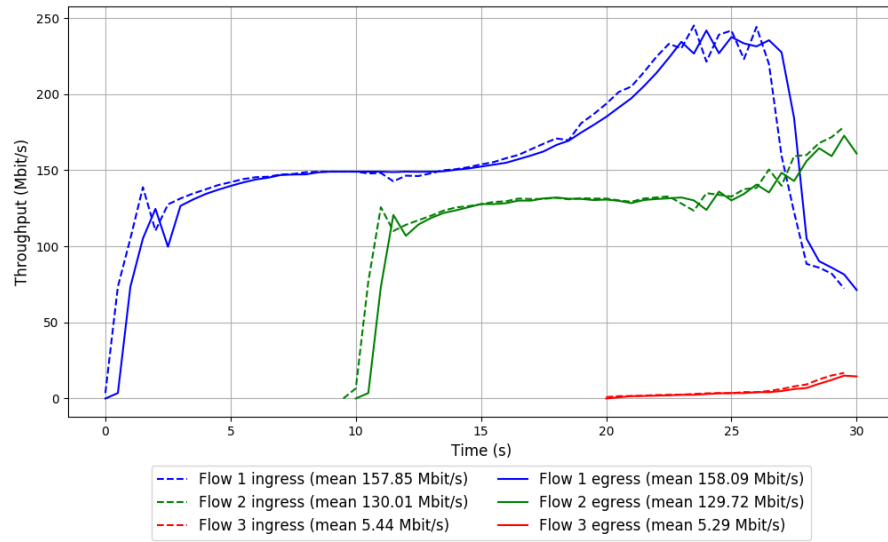
-- Flow 3:

Average throughput: 5.29 Mbit/s

95th percentile per-packet one-way delay: 59.368 ms

Loss rate: 3.76%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-07 19:42:58

End at: 2018-06-07 19:43:28

Local clock offset: 0.669 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-07 20:46:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.08 Mbit/s

95th percentile per-packet one-way delay: 89.480 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 126.66 Mbit/s

95th percentile per-packet one-way delay: 83.733 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 143.85 Mbit/s

95th percentile per-packet one-way delay: 88.308 ms

Loss rate: 0.67%

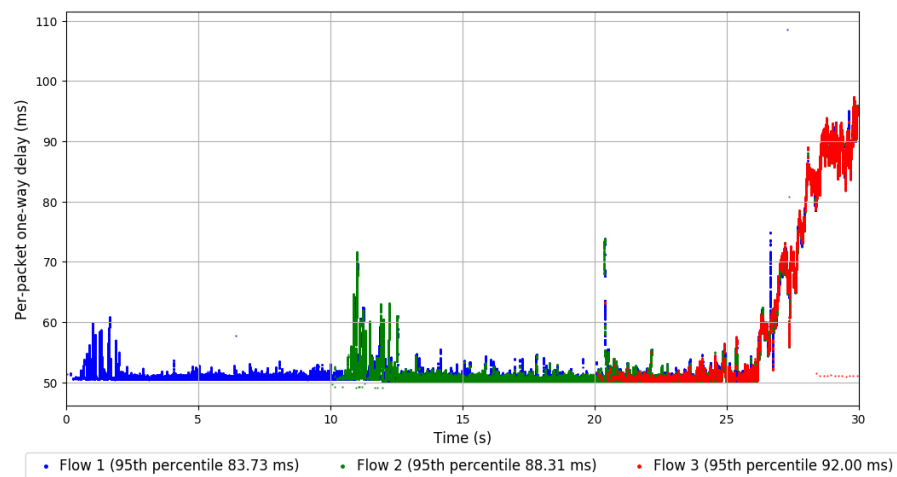
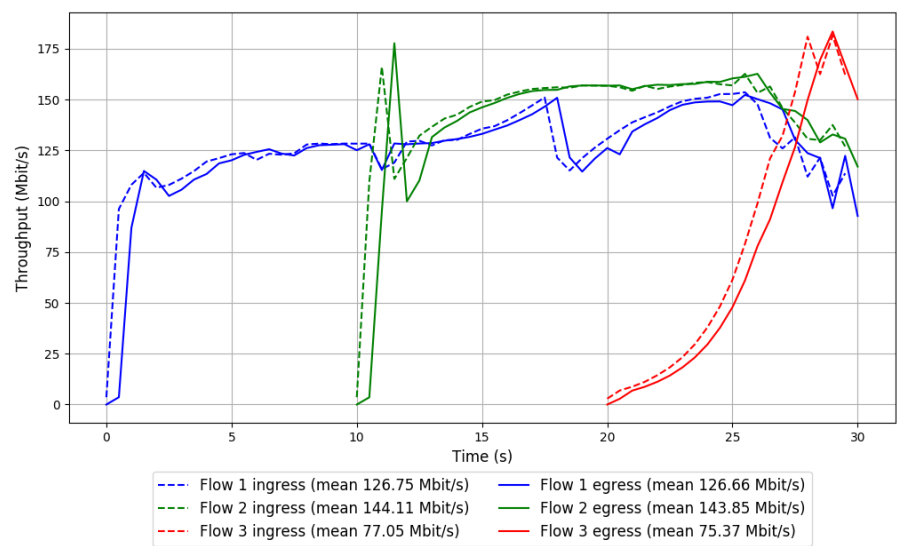
-- Flow 3:

Average throughput: 75.37 Mbit/s

95th percentile per-packet one-way delay: 92.004 ms

Loss rate: 3.18%

Run 9: Report of TCP Cubic — Data Link

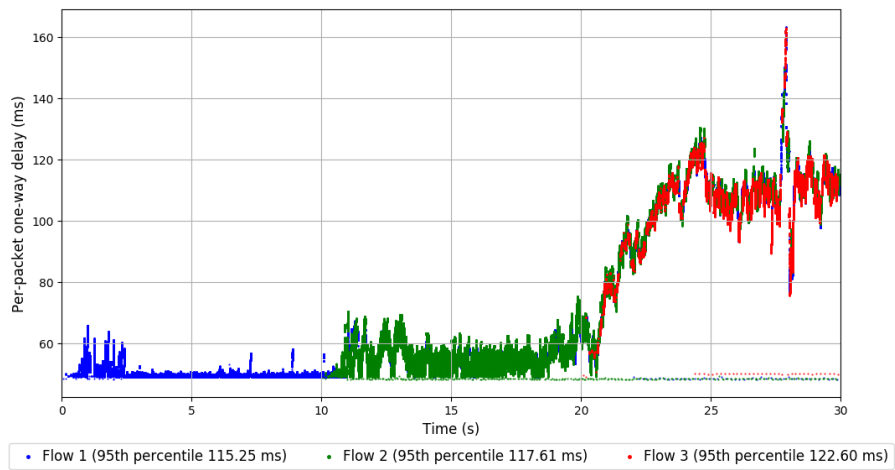
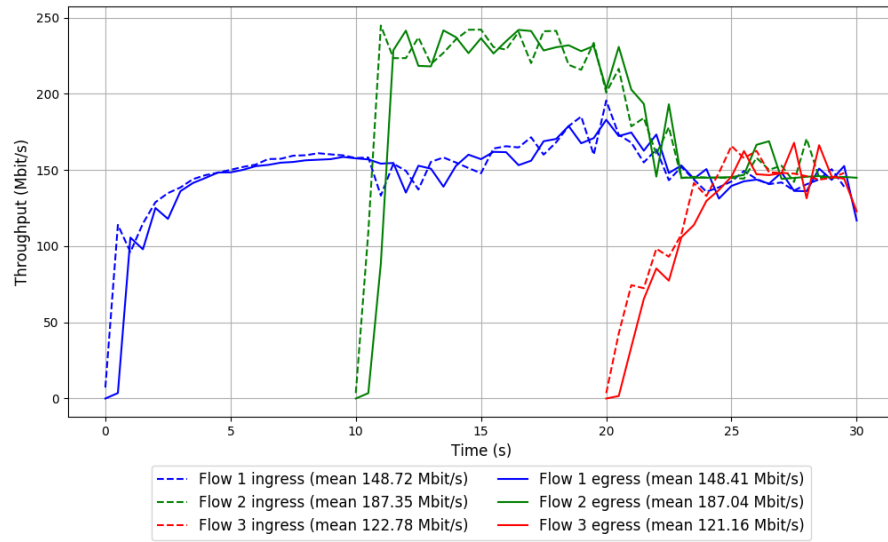


Run 10: Statistics of TCP Cubic

Start at: 2018-06-07 20:04:57
End at: 2018-06-07 20:05:27
Local clock offset: -0.421 ms
Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-07 20:47:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 312.49 Mbit/s
95th percentile per-packet one-way delay: 118.075 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 148.41 Mbit/s
95th percentile per-packet one-way delay: 115.249 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 187.04 Mbit/s
95th percentile per-packet one-way delay: 117.608 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 121.16 Mbit/s
95th percentile per-packet one-way delay: 122.602 ms
Loss rate: 2.05%

Run 10: Report of TCP Cubic — Data Link

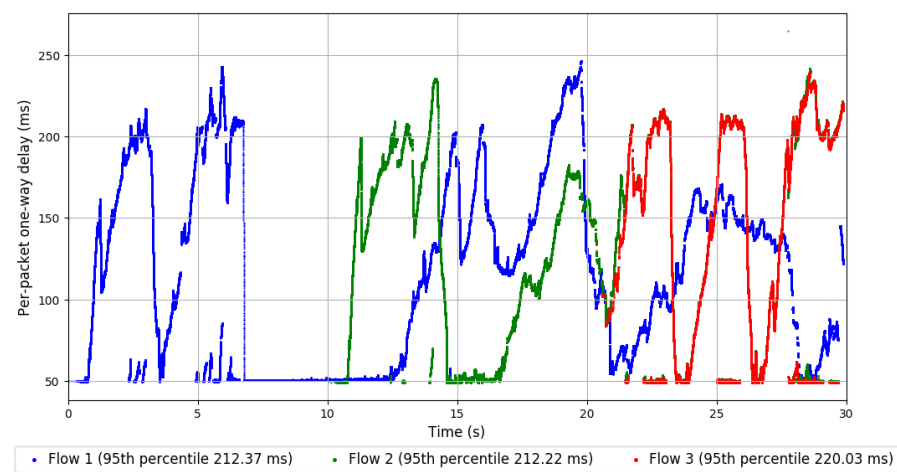
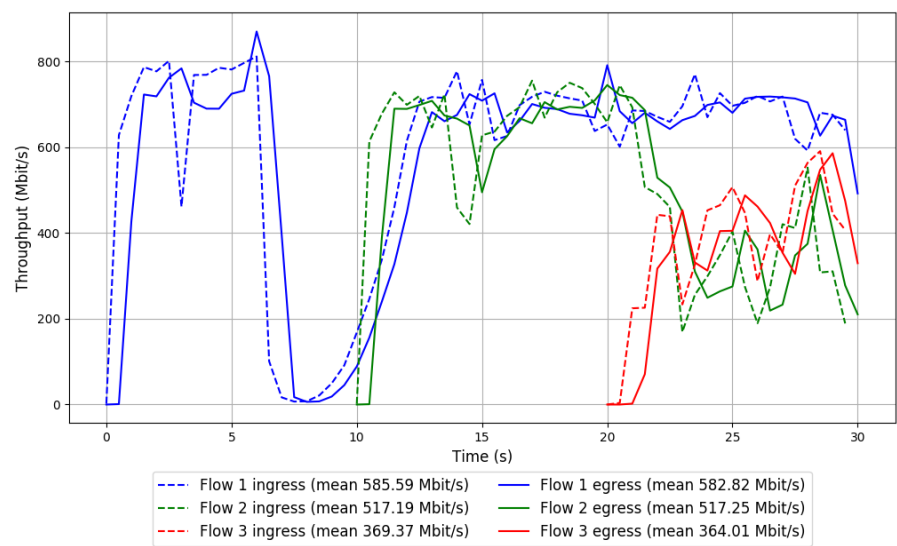


Run 1: Statistics of FillP

Start at: 2018-06-07 16:33:14
End at: 2018-06-07 16:33:44
Local clock offset: -0.466 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-07 21:02:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 1044.99 Mbit/s
95th percentile per-packet one-way delay: 213.383 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 582.82 Mbit/s
95th percentile per-packet one-way delay: 212.368 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 517.25 Mbit/s
95th percentile per-packet one-way delay: 212.221 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 364.01 Mbit/s
95th percentile per-packet one-way delay: 220.027 ms
Loss rate: 3.40%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-07 16:55:14

End at: 2018-06-07 16:55:44

Local clock offset: 0.344 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-06-07 21:06:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 1228.31 Mbit/s

95th percentile per-packet one-way delay: 210.135 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 631.11 Mbit/s

95th percentile per-packet one-way delay: 211.684 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 623.02 Mbit/s

95th percentile per-packet one-way delay: 210.318 ms

Loss rate: 1.01%

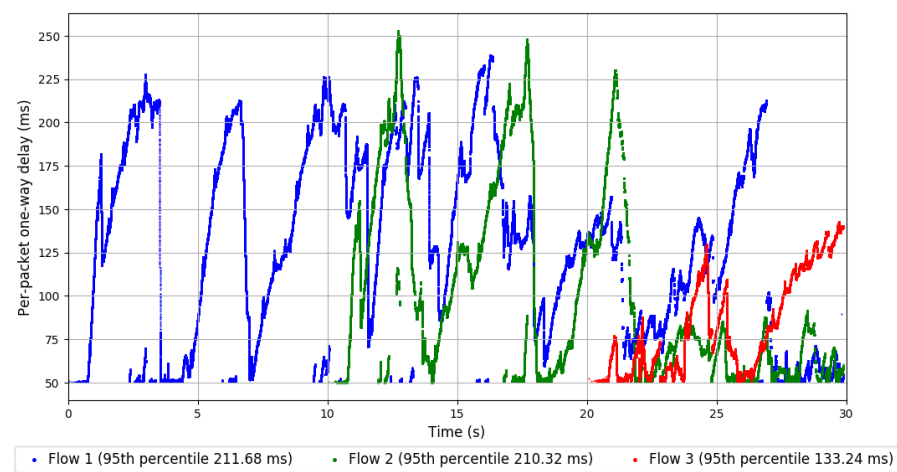
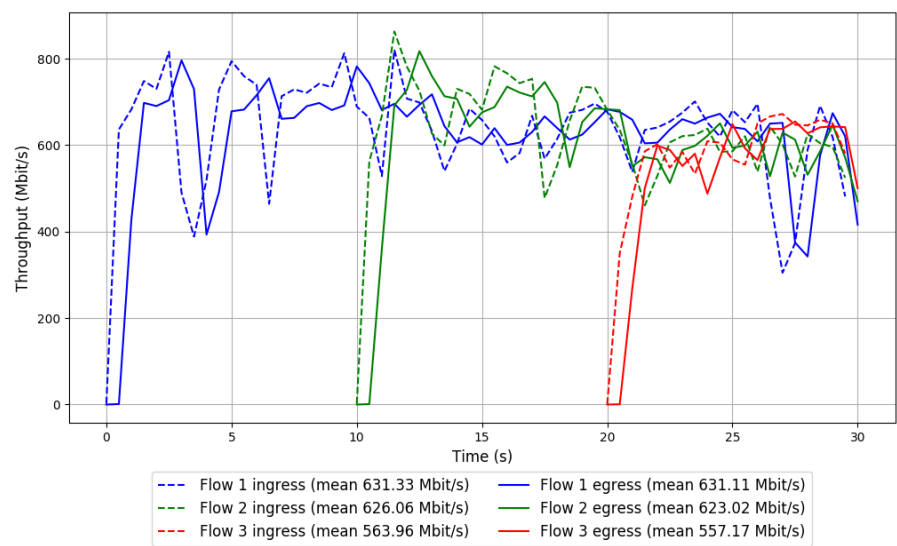
-- Flow 3:

Average throughput: 557.17 Mbit/s

95th percentile per-packet one-way delay: 133.244 ms

Loss rate: 2.28%

Run 2: Report of FillP — Data Link

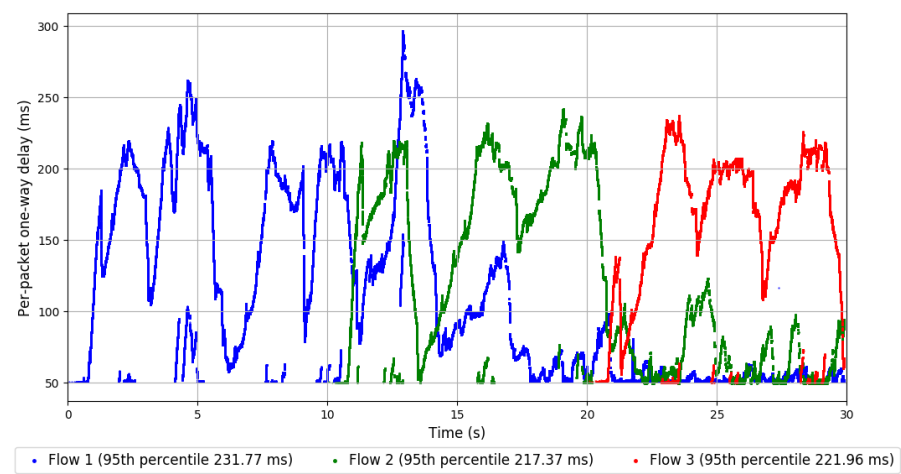
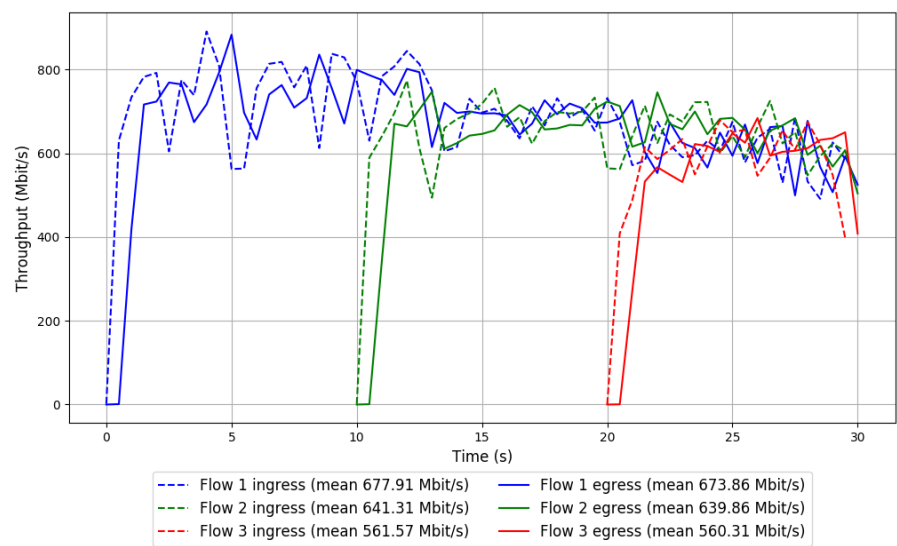


Run 3: Statistics of FillP

Start at: 2018-06-07 17:17:18
End at: 2018-06-07 17:17:48
Local clock offset: 0.025 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-07 21:10:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 1283.11 Mbit/s
95th percentile per-packet one-way delay: 221.538 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 673.86 Mbit/s
95th percentile per-packet one-way delay: 231.771 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 639.86 Mbit/s
95th percentile per-packet one-way delay: 217.373 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 560.31 Mbit/s
95th percentile per-packet one-way delay: 221.958 ms
Loss rate: 1.26%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-07 17:39:43

End at: 2018-06-07 17:40:13

Local clock offset: 0.025 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-07 21:10:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 1132.30 Mbit/s

95th percentile per-packet one-way delay: 214.032 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 522.02 Mbit/s

95th percentile per-packet one-way delay: 213.778 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 634.05 Mbit/s

95th percentile per-packet one-way delay: 219.080 ms

Loss rate: 0.60%

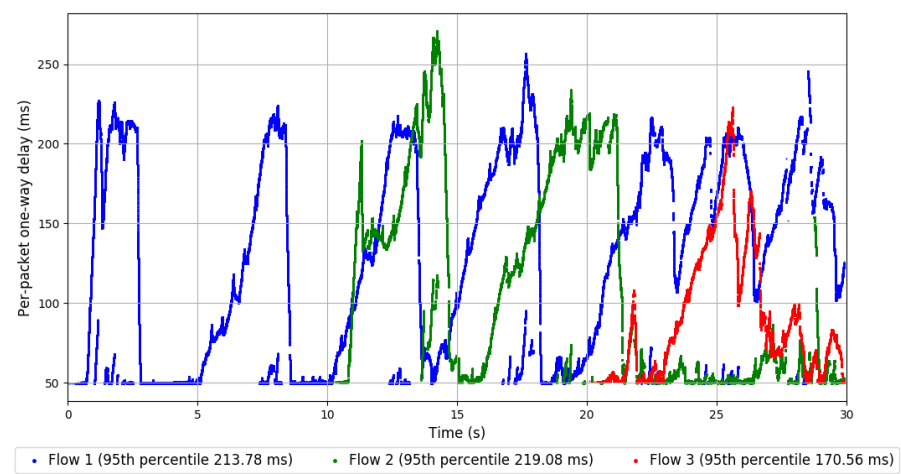
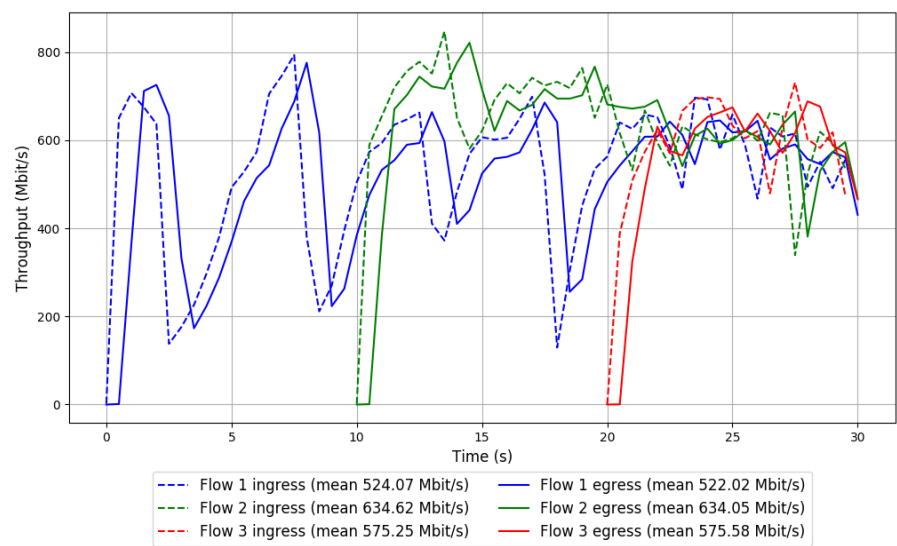
-- Flow 3:

Average throughput: 575.58 Mbit/s

95th percentile per-packet one-way delay: 170.561 ms

Loss rate: 0.97%

Run 4: Report of FillP — Data Link

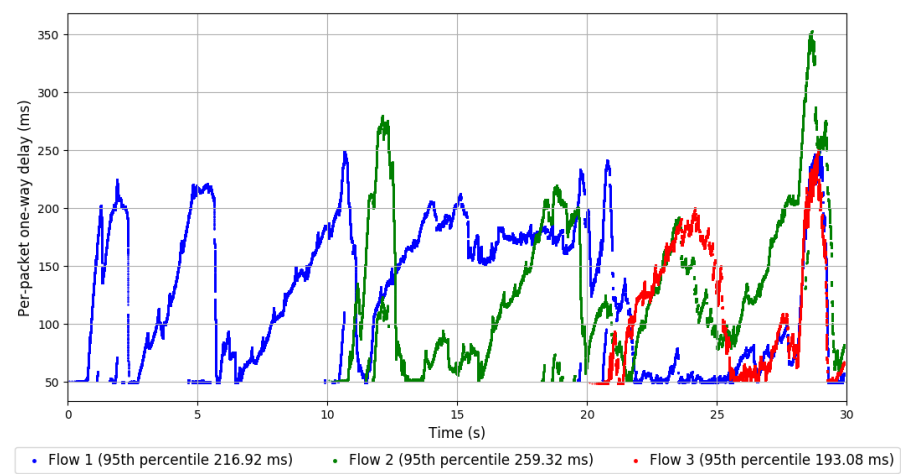
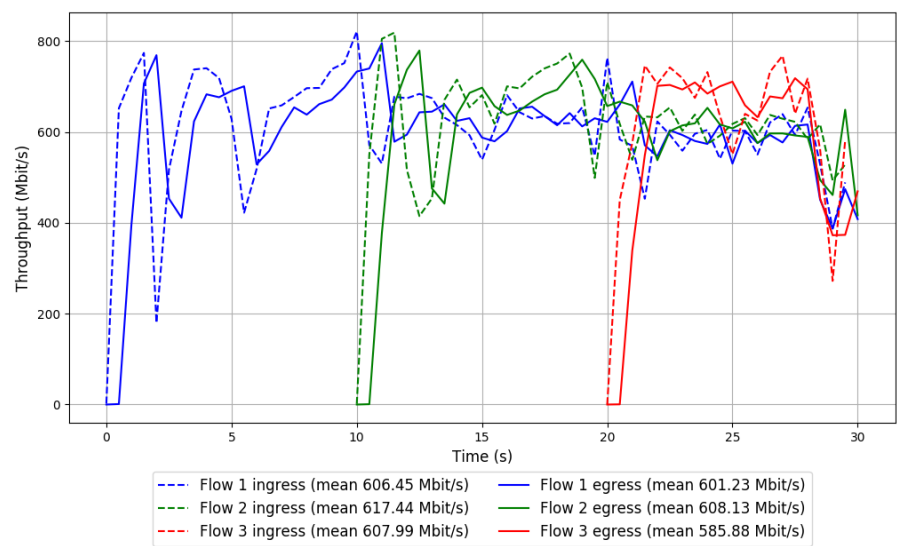


Run 5: Statistics of FillP

Start at: 2018-06-07 18:01:48
End at: 2018-06-07 18:02:18
Local clock offset: 0.05 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-07 21:10:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 1198.34 Mbit/s
95th percentile per-packet one-way delay: 218.551 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 601.23 Mbit/s
95th percentile per-packet one-way delay: 216.919 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 608.13 Mbit/s
95th percentile per-packet one-way delay: 259.323 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 585.88 Mbit/s
95th percentile per-packet one-way delay: 193.076 ms
Loss rate: 4.59%

Run 5: Report of FillP — Data Link

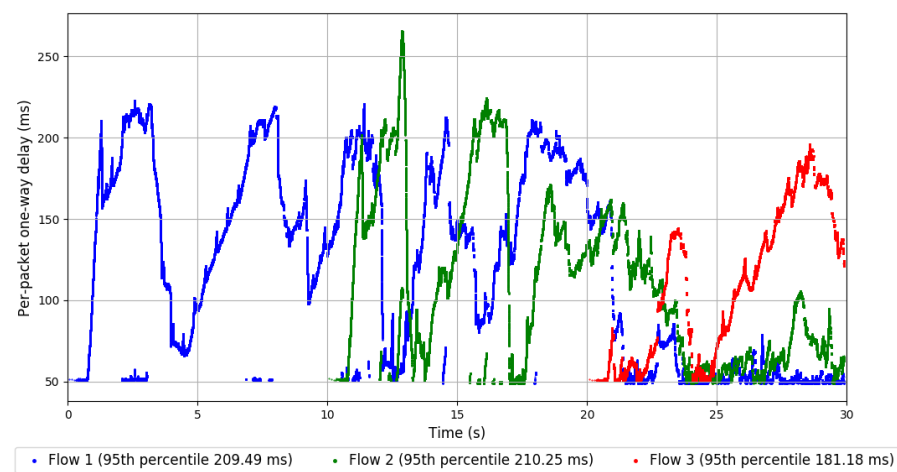
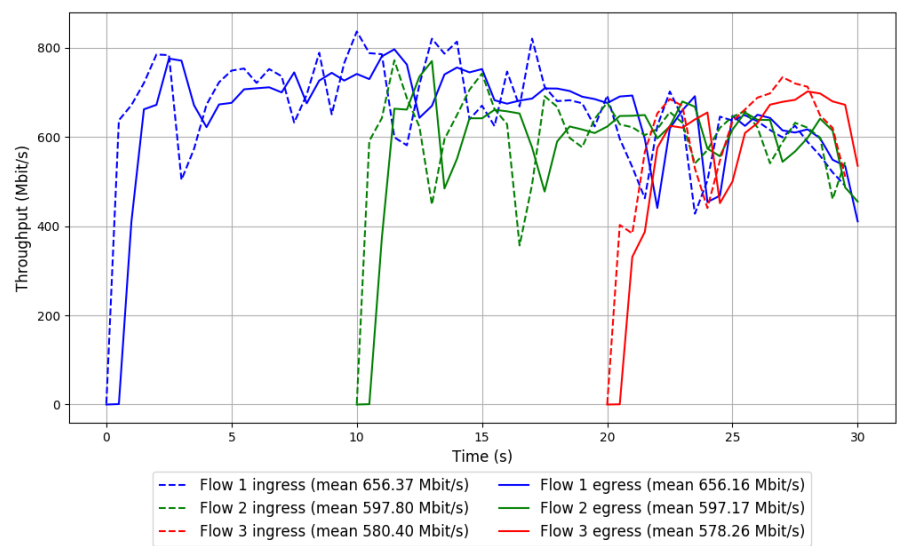


Run 6: Statistics of FillP

Start at: 2018-06-07 18:23:55
End at: 2018-06-07 18:24:25
Local clock offset: 0.19 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2018-06-07 21:10:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 1242.89 Mbit/s
95th percentile per-packet one-way delay: 208.303 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 656.16 Mbit/s
95th percentile per-packet one-way delay: 209.486 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 597.17 Mbit/s
95th percentile per-packet one-way delay: 210.245 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 578.26 Mbit/s
95th percentile per-packet one-way delay: 181.183 ms
Loss rate: 1.39%

Run 6: Report of FillP — Data Link

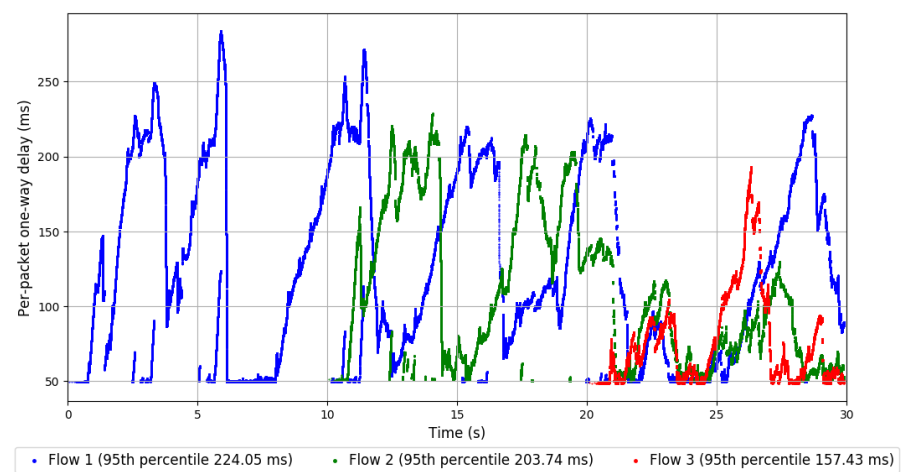
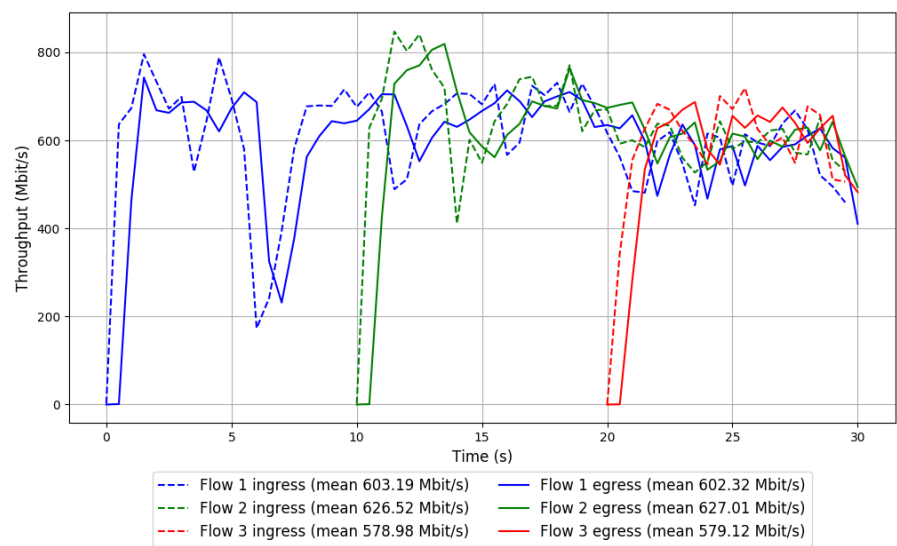


Run 7: Statistics of FillP

Start at: 2018-06-07 18:46:14
End at: 2018-06-07 18:46:44
Local clock offset: 0.246 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-06-07 21:10:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 1209.17 Mbit/s
95th percentile per-packet one-way delay: 215.976 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 602.32 Mbit/s
95th percentile per-packet one-way delay: 224.046 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 627.01 Mbit/s
95th percentile per-packet one-way delay: 203.741 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 579.12 Mbit/s
95th percentile per-packet one-way delay: 157.428 ms
Loss rate: 0.91%

Run 7: Report of FillP — Data Link

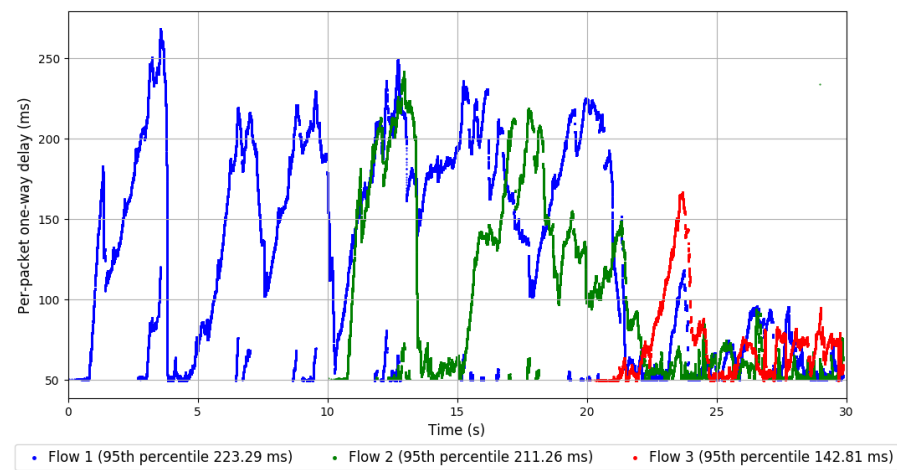
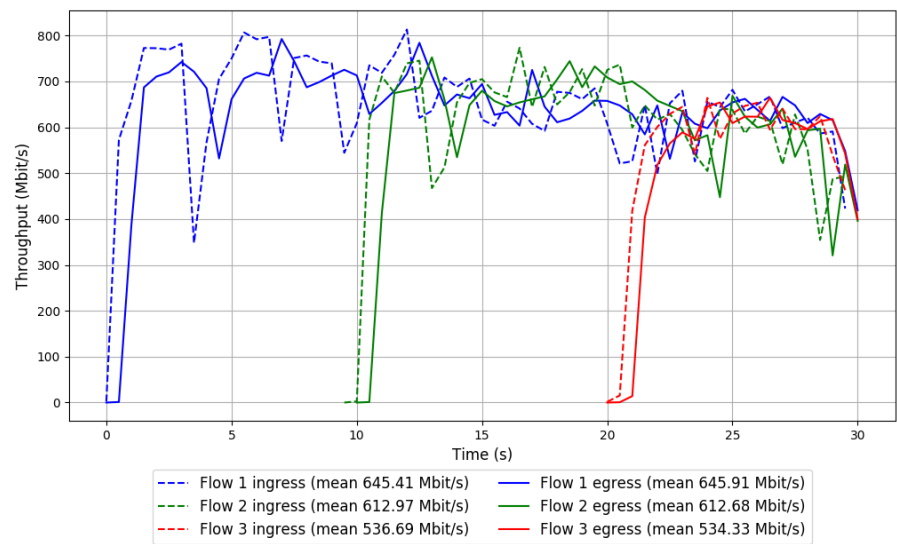


Run 8: Statistics of FillP

Start at: 2018-06-07 19:08:27
End at: 2018-06-07 19:08:57
Local clock offset: 0.293 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-07 21:11:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 1228.91 Mbit/s
95th percentile per-packet one-way delay: 217.193 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 645.91 Mbit/s
95th percentile per-packet one-way delay: 223.288 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 612.68 Mbit/s
95th percentile per-packet one-way delay: 211.257 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 534.33 Mbit/s
95th percentile per-packet one-way delay: 142.811 ms
Loss rate: 1.47%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-07 19:30:37

End at: 2018-06-07 19:31:07

Local clock offset: 0.287 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-07 21:29:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 1231.35 Mbit/s

95th percentile per-packet one-way delay: 217.022 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 657.40 Mbit/s

95th percentile per-packet one-way delay: 202.300 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 590.36 Mbit/s

95th percentile per-packet one-way delay: 251.993 ms

Loss rate: 0.94%

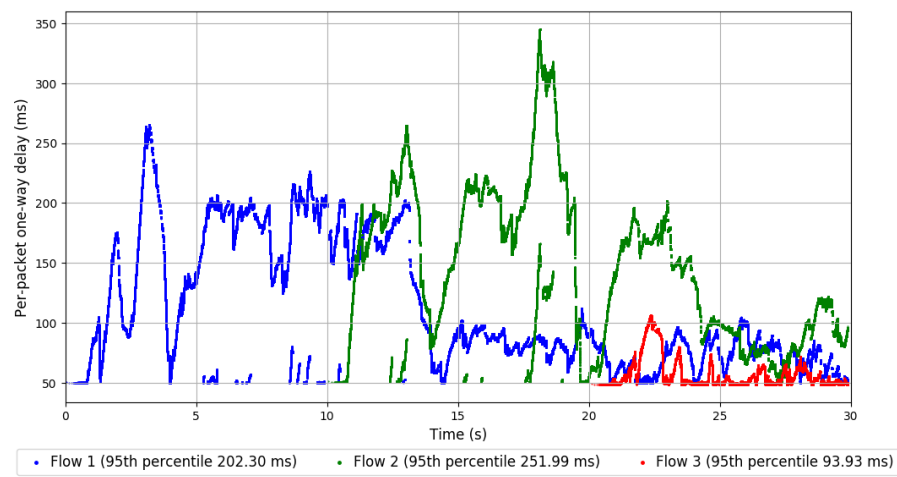
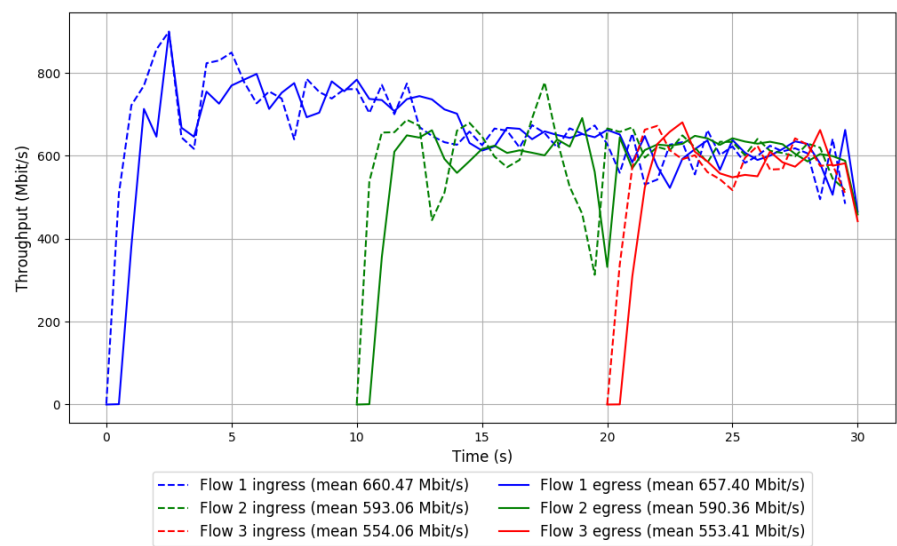
-- Flow 3:

Average throughput: 553.41 Mbit/s

95th percentile per-packet one-way delay: 93.928 ms

Loss rate: 1.13%

Run 9: Report of FillP — Data Link

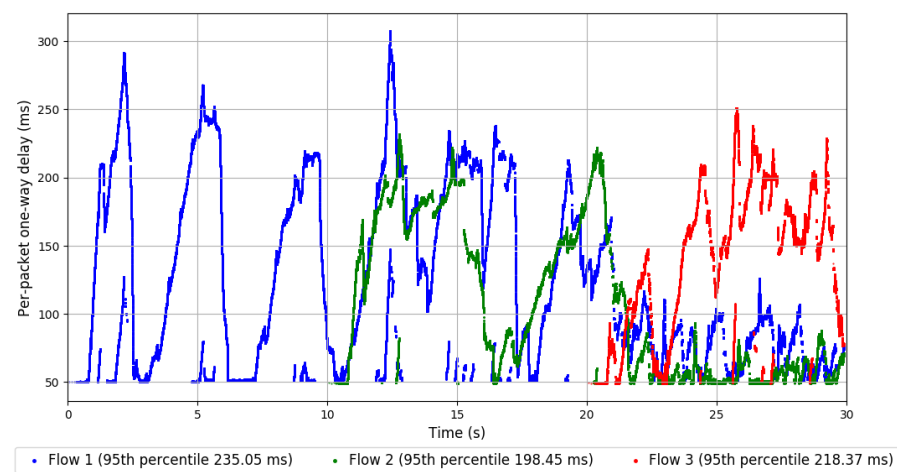
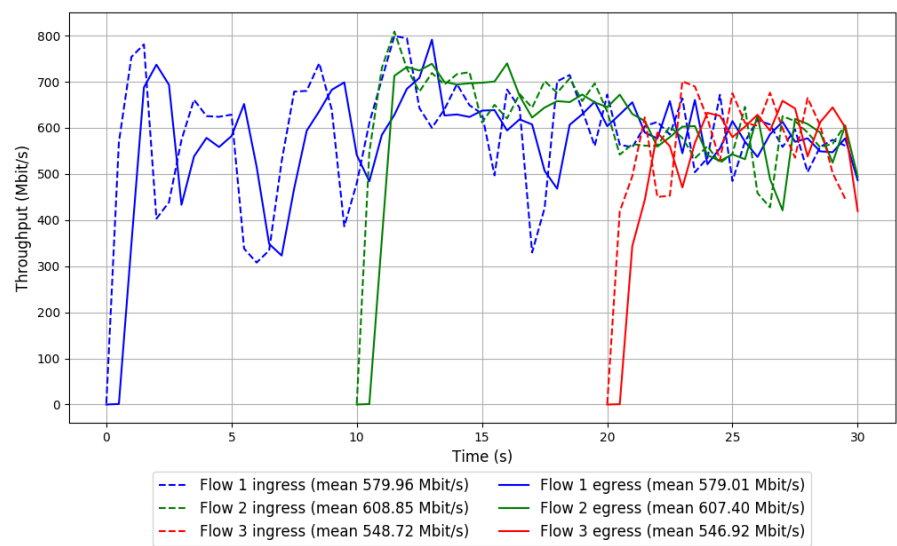


Run 10: Statistics of FillP

Start at: 2018-06-07 19:52:44
End at: 2018-06-07 19:53:14
Local clock offset: 0.454 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 1162.94 Mbit/s
95th percentile per-packet one-way delay: 219.204 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 579.01 Mbit/s
95th percentile per-packet one-way delay: 235.050 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 607.40 Mbit/s
95th percentile per-packet one-way delay: 198.447 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 546.92 Mbit/s
95th percentile per-packet one-way delay: 218.372 ms
Loss rate: 1.34%

Run 10: Report of FillP — Data Link

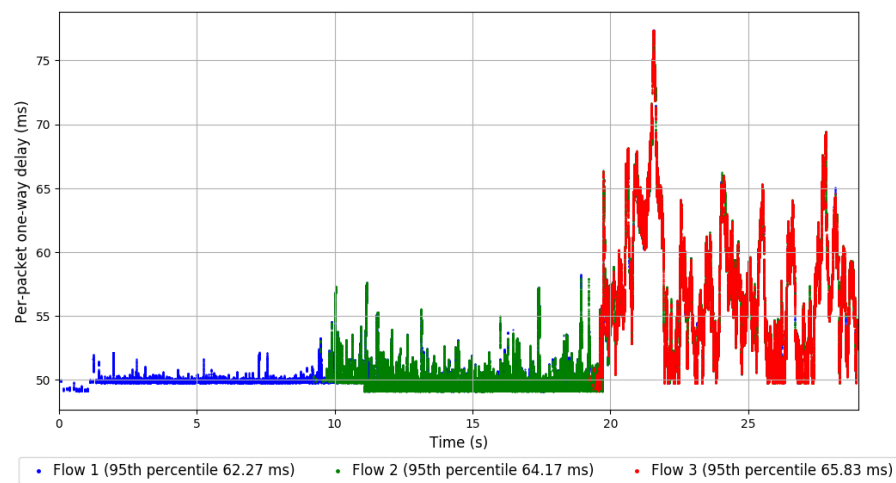
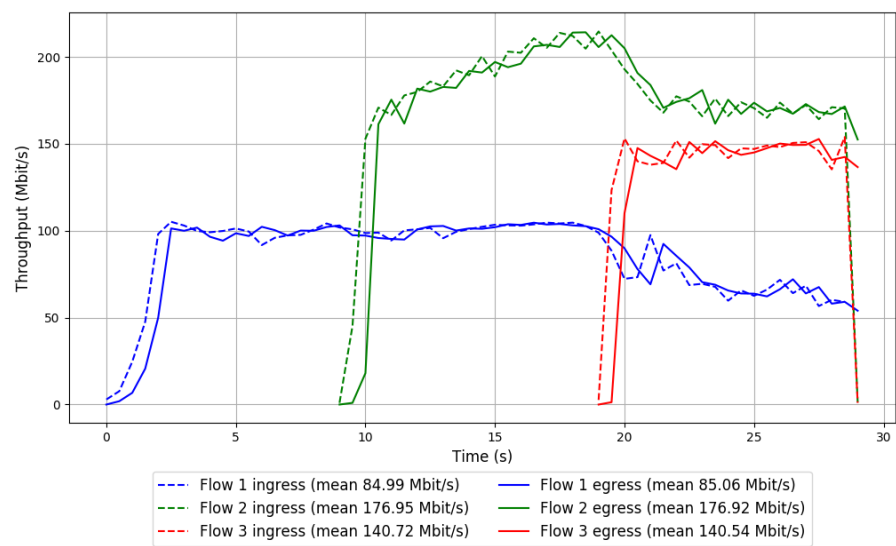


```
Run 1: Statistics of Indigo

Start at: 2018-06-07 16:46:48
End at: 2018-06-07 16:47:18
Local clock offset: -0.446 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-07 21:31:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.91 Mbit/s
95th percentile per-packet one-way delay: 64.320 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 85.06 Mbit/s
95th percentile per-packet one-way delay: 62.268 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 176.92 Mbit/s
95th percentile per-packet one-way delay: 64.167 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 140.54 Mbit/s
95th percentile per-packet one-way delay: 65.834 ms
Loss rate: 1.14%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-07 17:08:54

End at: 2018-06-07 17:09:24

Local clock offset: 0.002 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-07 21:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.51 Mbit/s

95th percentile per-packet one-way delay: 74.695 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 173.00 Mbit/s

95th percentile per-packet one-way delay: 71.532 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 151.72 Mbit/s

95th percentile per-packet one-way delay: 75.395 ms

Loss rate: 0.55%

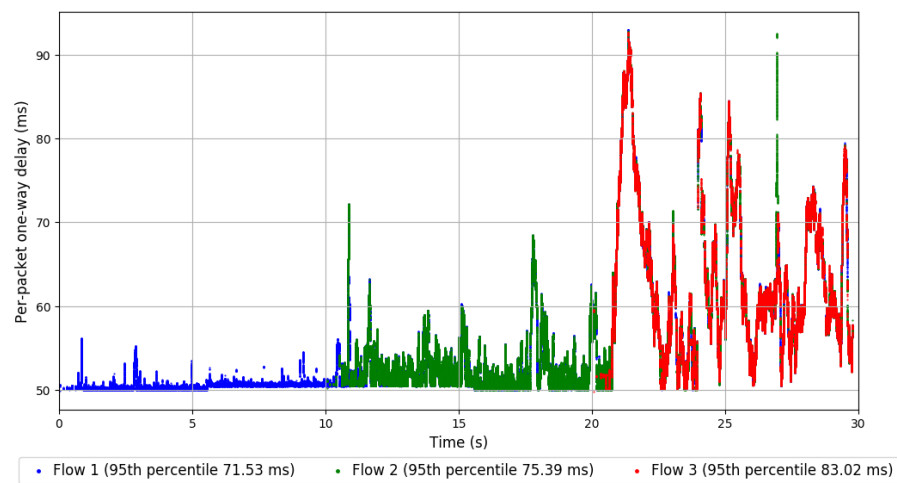
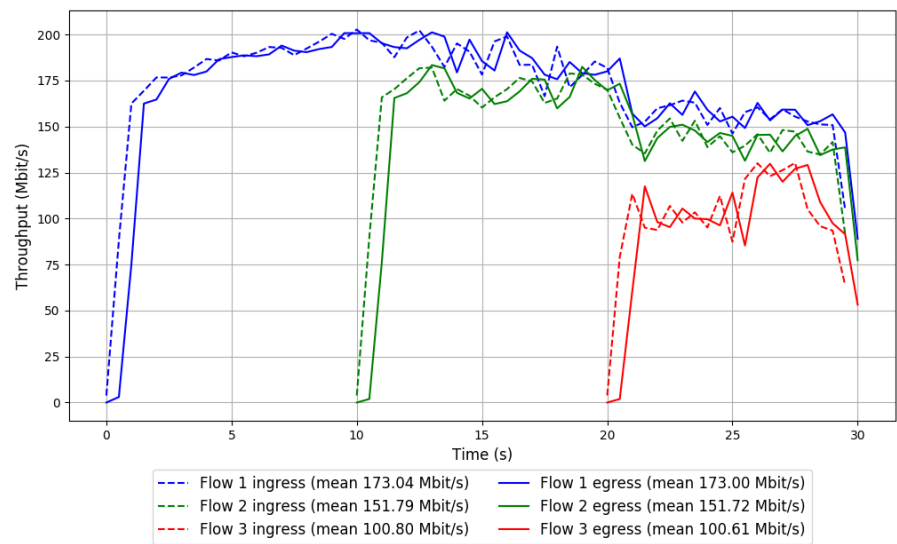
-- Flow 3:

Average throughput: 100.61 Mbit/s

95th percentile per-packet one-way delay: 83.021 ms

Loss rate: 1.20%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-07 17:31:12

End at: 2018-06-07 17:31:43

Local clock offset: 0.025 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-07 21:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.88 Mbit/s

95th percentile per-packet one-way delay: 66.647 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 180.44 Mbit/s

95th percentile per-packet one-way delay: 64.282 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 155.48 Mbit/s

95th percentile per-packet one-way delay: 67.574 ms

Loss rate: 0.56%

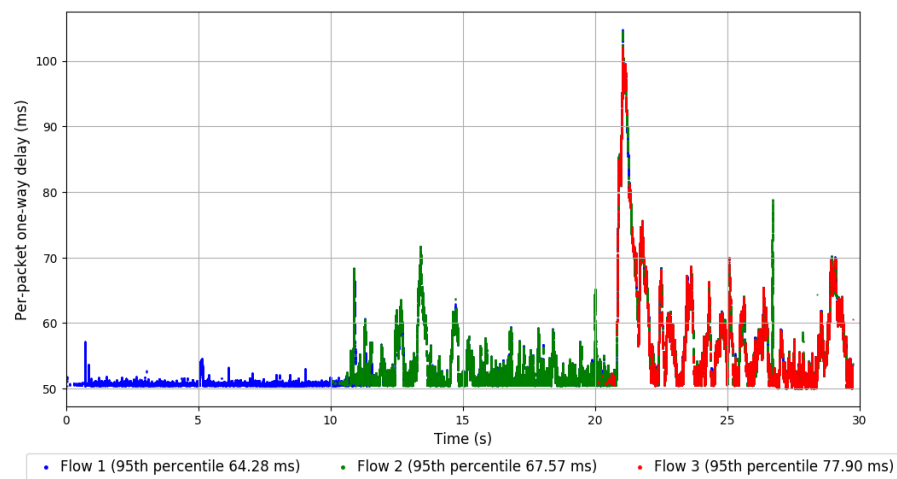
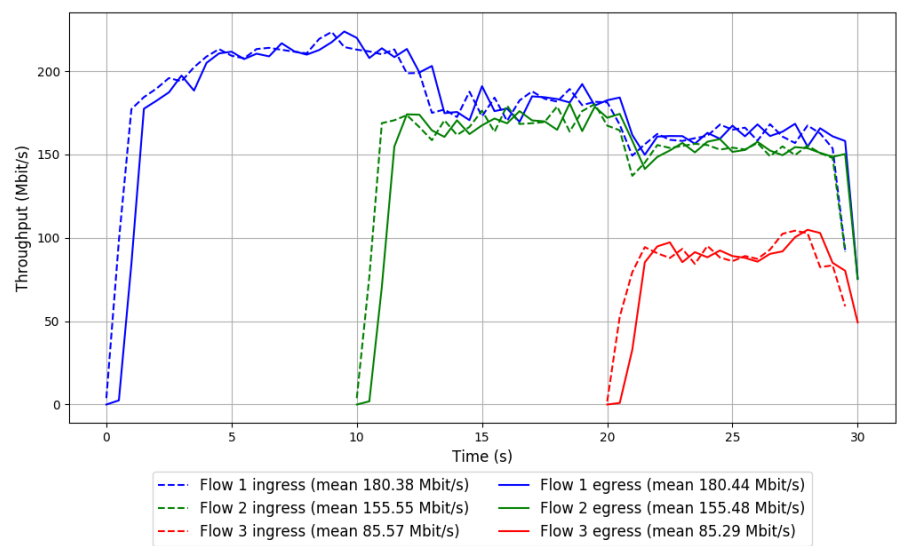
-- Flow 3:

Average throughput: 85.29 Mbit/s

95th percentile per-packet one-way delay: 77.903 ms

Loss rate: 1.29%

Run 3: Report of Indigo — Data Link

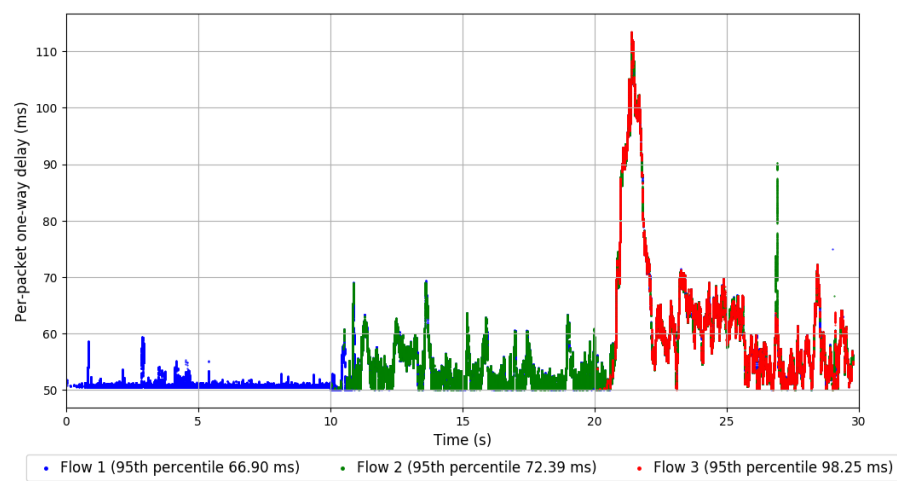
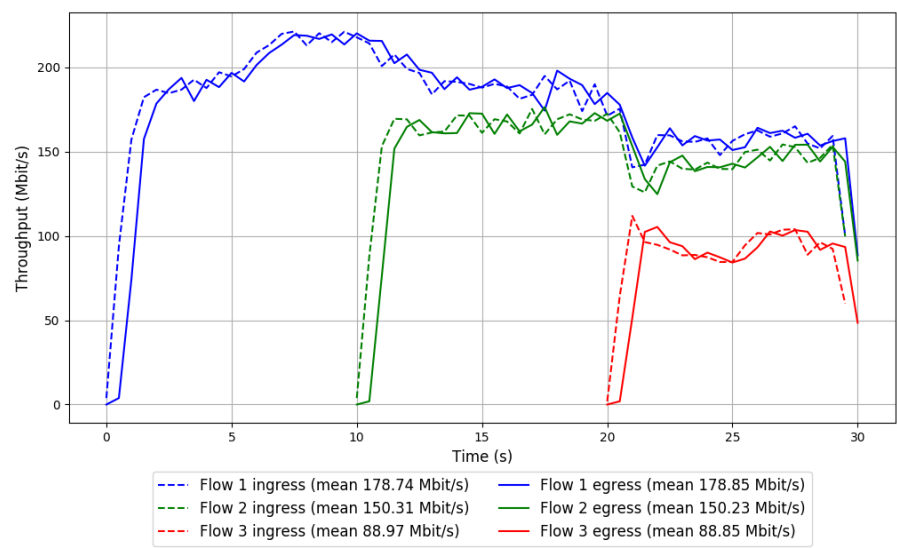


Run 4: Statistics of Indigo

Start at: 2018-06-07 17:53:19
End at: 2018-06-07 17:53:49
Local clock offset: 0.026 ms
Remote clock offset: -0.033 ms

```
# Below is generated by plot.py at 2018-06-07 21:31:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 307.40 Mbit/s
95th percentile per-packet one-way delay: 71.005 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 178.85 Mbit/s
95th percentile per-packet one-way delay: 66.898 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 150.23 Mbit/s
95th percentile per-packet one-way delay: 72.389 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 98.255 ms
Loss rate: 1.16%
```

Run 4: Report of Indigo — Data Link

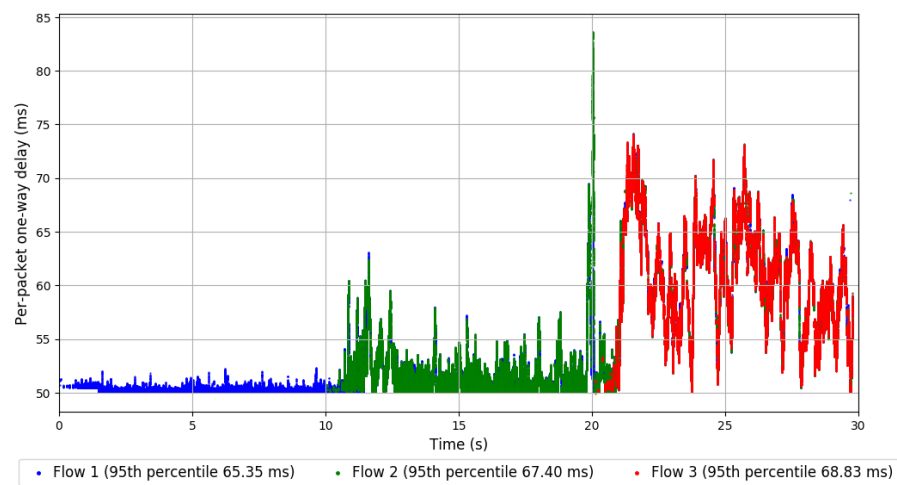
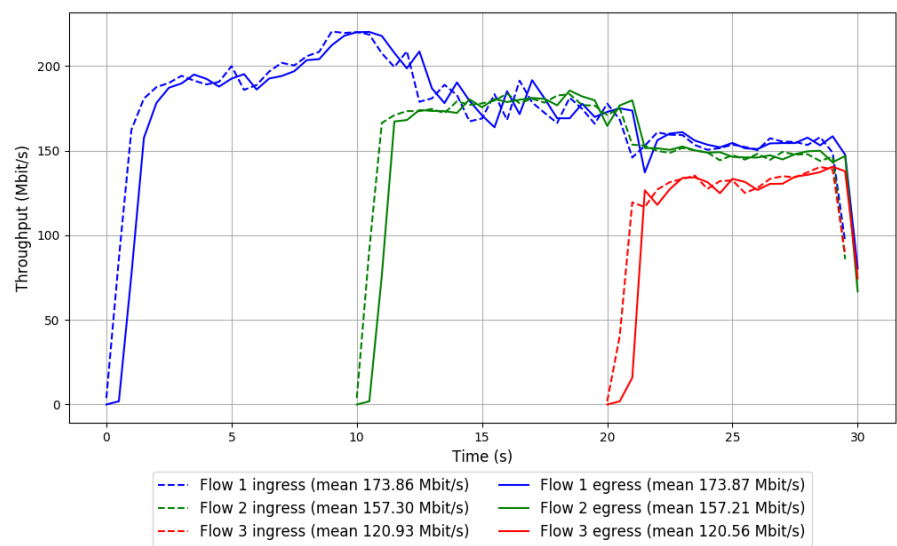


Run 5: Statistics of Indigo

Start at: 2018-06-07 18:15:28
End at: 2018-06-07 18:15:58
Local clock offset: 0.127 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 317.30 Mbit/s
95th percentile per-packet one-way delay: 67.034 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 173.87 Mbit/s
95th percentile per-packet one-way delay: 65.349 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 157.21 Mbit/s
95th percentile per-packet one-way delay: 67.400 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 120.56 Mbit/s
95th percentile per-packet one-way delay: 68.830 ms
Loss rate: 1.32%

Run 5: Report of Indigo — Data Link

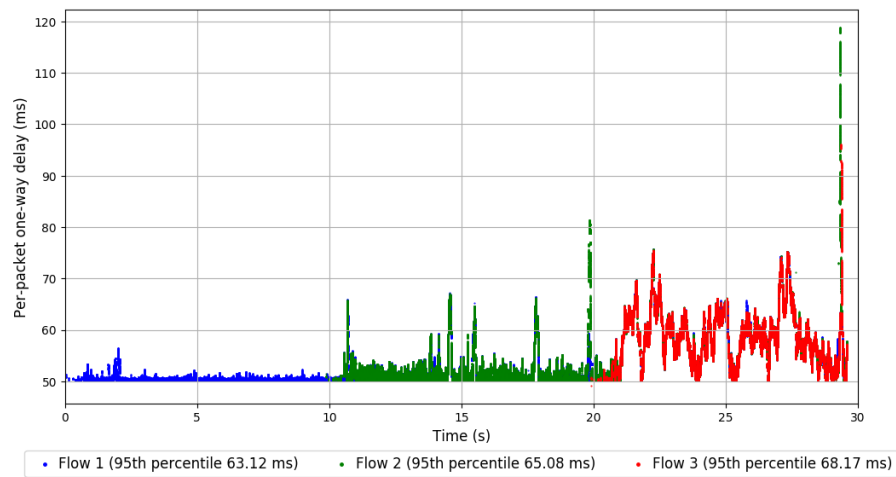
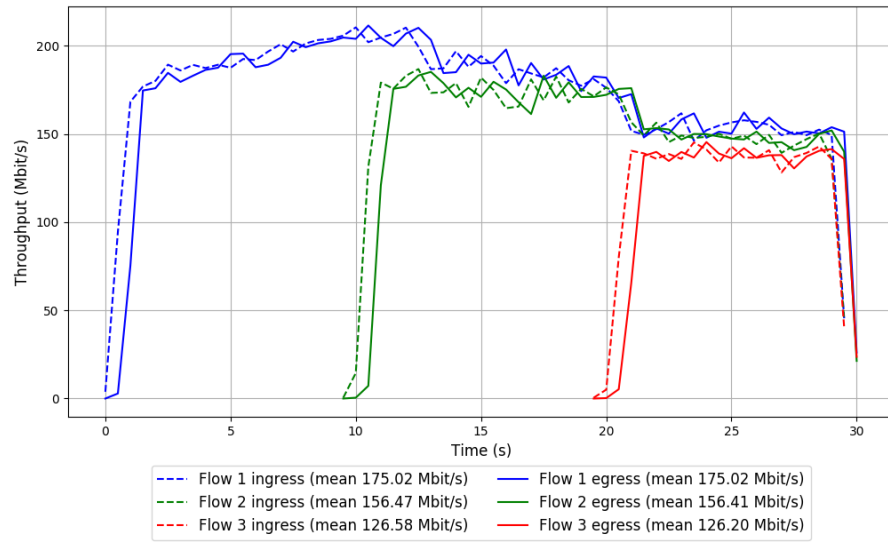


Run 6: Statistics of Indigo

Start at: 2018-06-07 18:37:36
End at: 2018-06-07 18:38:06
Local clock offset: 0.226 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.77 Mbit/s
95th percentile per-packet one-way delay: 64.479 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 175.02 Mbit/s
95th percentile per-packet one-way delay: 63.119 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 156.41 Mbit/s
95th percentile per-packet one-way delay: 65.075 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 126.20 Mbit/s
95th percentile per-packet one-way delay: 68.172 ms
Loss rate: 1.30%

Run 6: Report of Indigo — Data Link

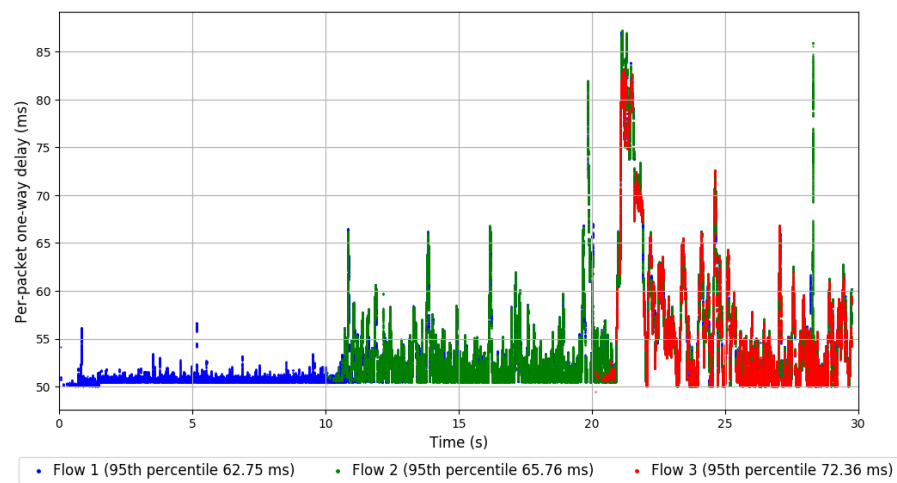
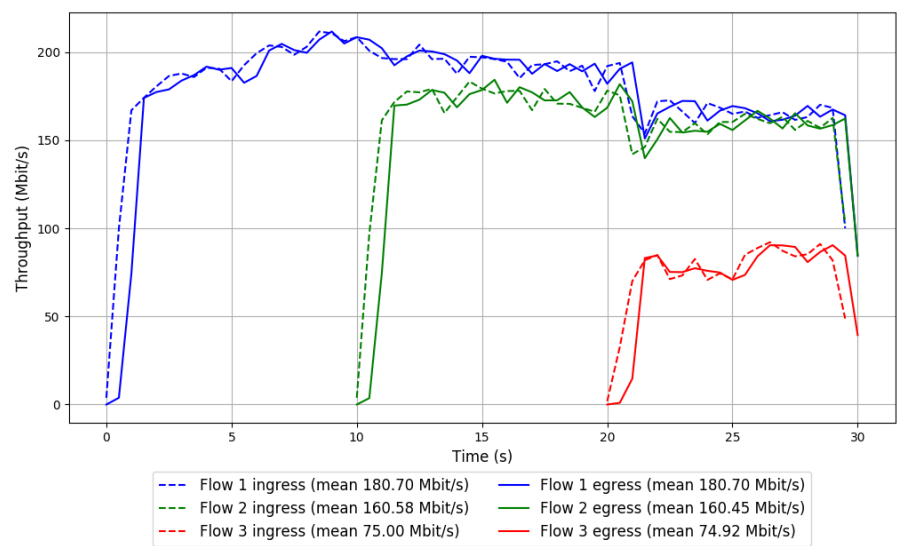


Run 7: Statistics of Indigo

Start at: 2018-06-07 18:59:58
End at: 2018-06-07 19:00:28
Local clock offset: 0.657 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 311.43 Mbit/s
95th percentile per-packet one-way delay: 64.661 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 180.70 Mbit/s
95th percentile per-packet one-way delay: 62.753 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 160.45 Mbit/s
95th percentile per-packet one-way delay: 65.764 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 74.92 Mbit/s
95th percentile per-packet one-way delay: 72.357 ms
Loss rate: 1.14%

Run 7: Report of Indigo — Data Link

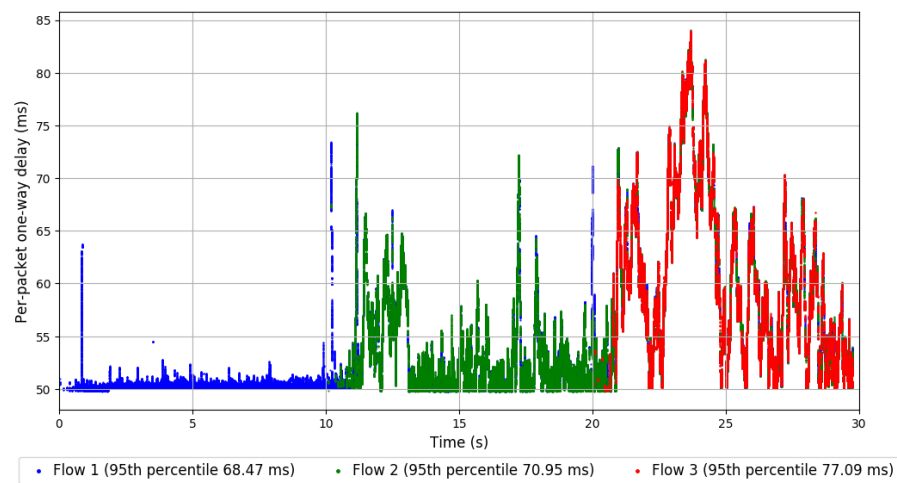
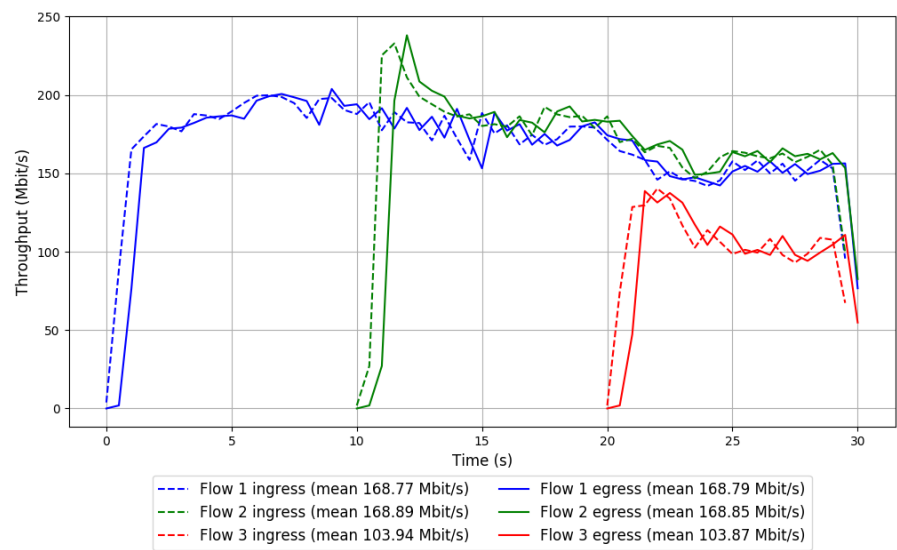


Run 8: Statistics of Indigo

Start at: 2018-06-07 19:22:08
End at: 2018-06-07 19:22:38
Local clock offset: 0.304 ms
Remote clock offset: -0.038 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 314.33 Mbit/s
95th percentile per-packet one-way delay: 70.670 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 168.79 Mbit/s
95th percentile per-packet one-way delay: 68.471 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 168.85 Mbit/s
95th percentile per-packet one-way delay: 70.948 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 103.87 Mbit/s
95th percentile per-packet one-way delay: 77.088 ms
Loss rate: 1.12%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-07 19:44:18

End at: 2018-06-07 19:44:48

Local clock offset: 0.252 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-07 21:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 320.02 Mbit/s

95th percentile per-packet one-way delay: 84.731 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 181.89 Mbit/s

95th percentile per-packet one-way delay: 72.199 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 142.38 Mbit/s

95th percentile per-packet one-way delay: 87.096 ms

Loss rate: 0.58%

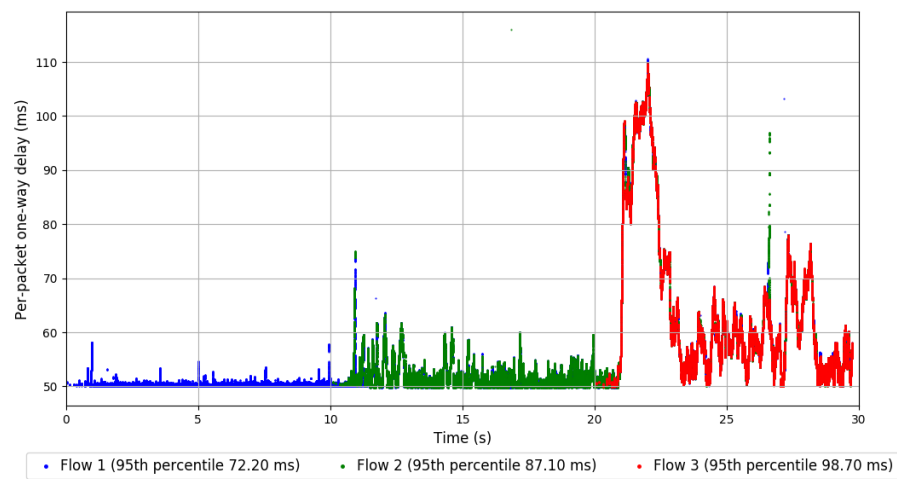
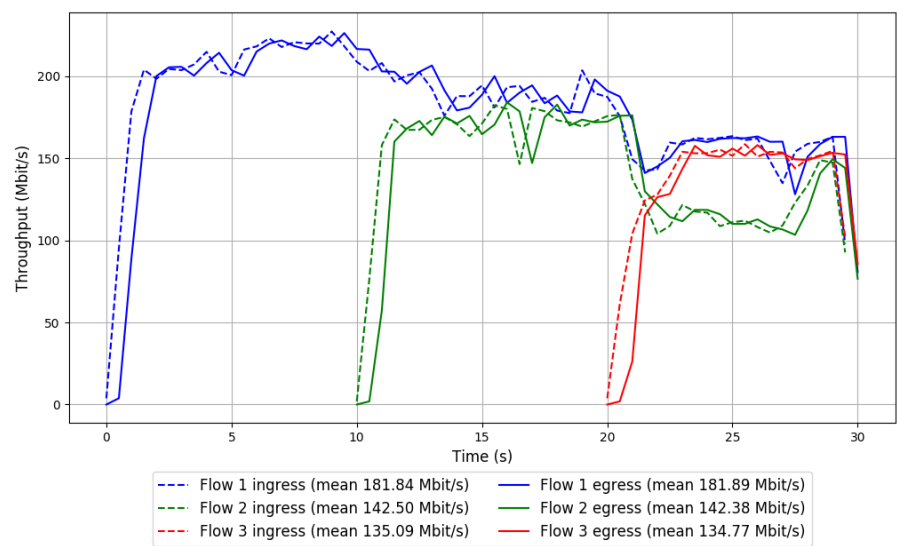
-- Flow 3:

Average throughput: 134.77 Mbit/s

95th percentile per-packet one-way delay: 98.705 ms

Loss rate: 1.26%

Run 9: Report of Indigo — Data Link

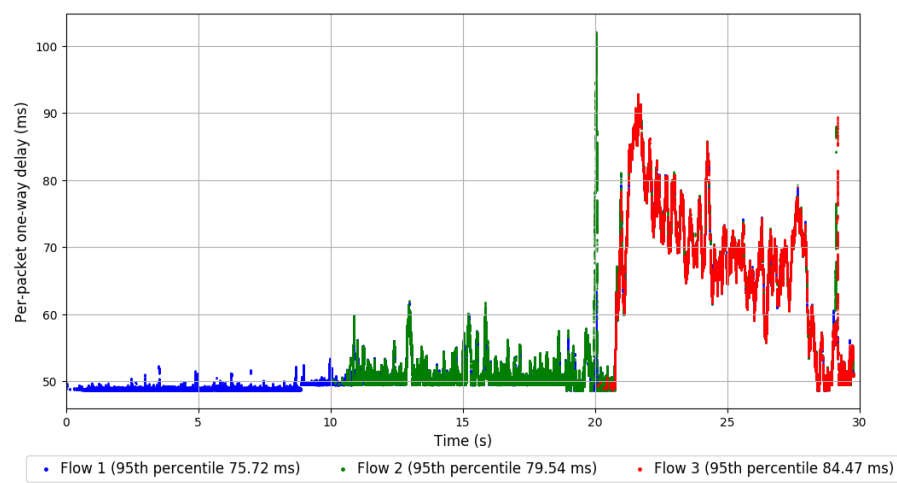
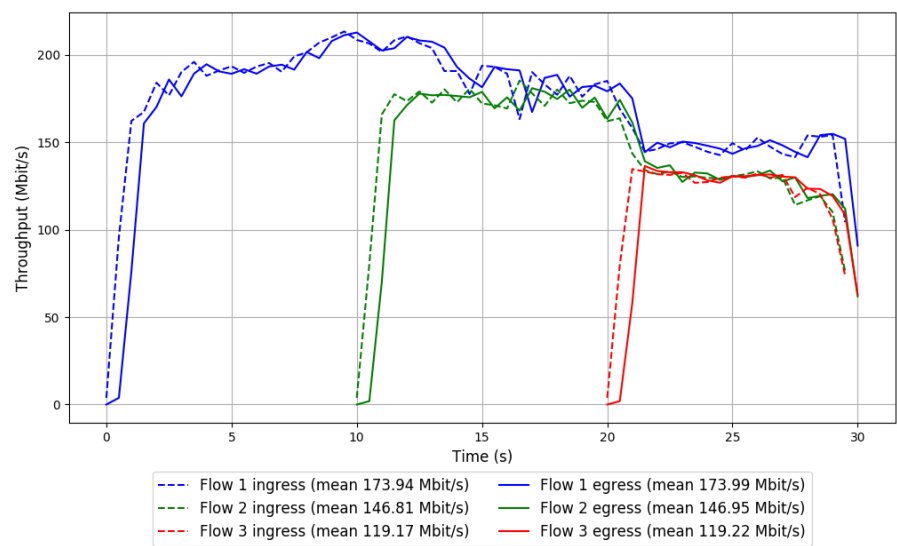


Run 10: Statistics of Indigo

Start at: 2018-06-07 20:06:21
End at: 2018-06-07 20:06:51
Local clock offset: -0.087 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.12 Mbit/s
95th percentile per-packet one-way delay: 79.168 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 173.99 Mbit/s
95th percentile per-packet one-way delay: 75.725 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 146.95 Mbit/s
95th percentile per-packet one-way delay: 79.536 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 119.22 Mbit/s
95th percentile per-packet one-way delay: 84.468 ms
Loss rate: 1.00%

Run 10: Report of Indigo — Data Link

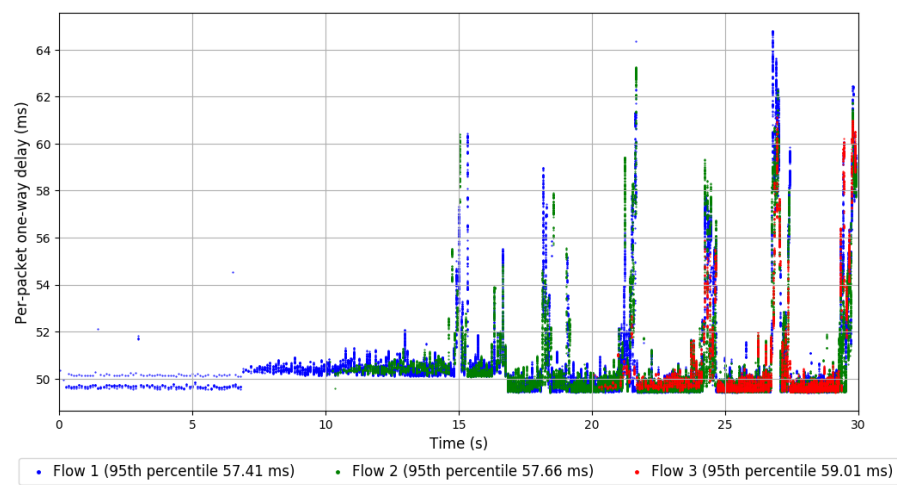
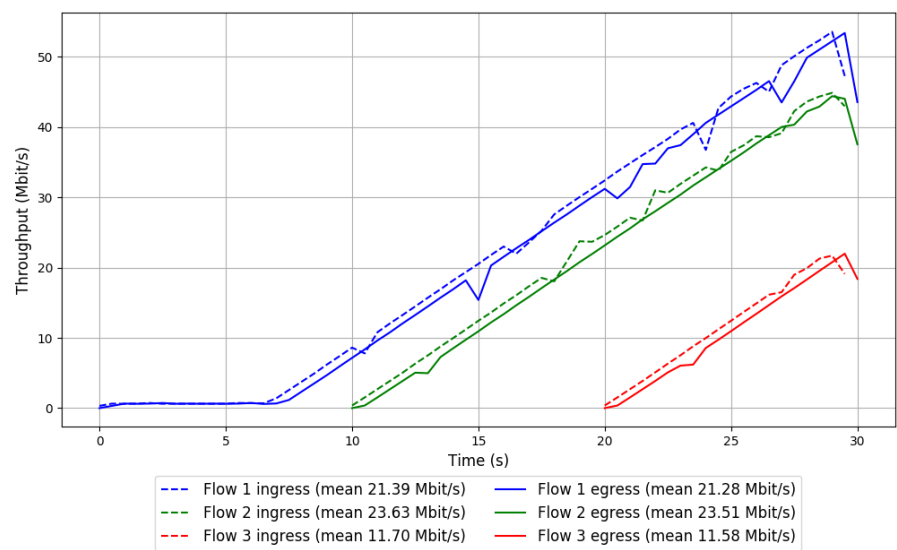


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-07 16:41:33
End at: 2018-06-07 16:42:03
Local clock offset: -0.077 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-07 21:31:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.72 Mbit/s
95th percentile per-packet one-way delay: 57.643 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 21.28 Mbit/s
95th percentile per-packet one-way delay: 57.408 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 23.51 Mbit/s
95th percentile per-packet one-way delay: 57.656 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 59.009 ms
Loss rate: 2.03%
```

Run 1: Report of LEDBAT — Data Link

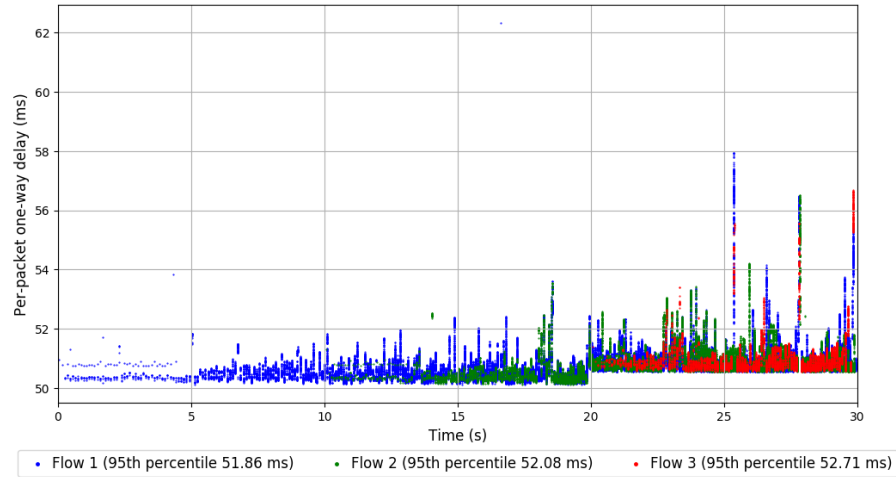
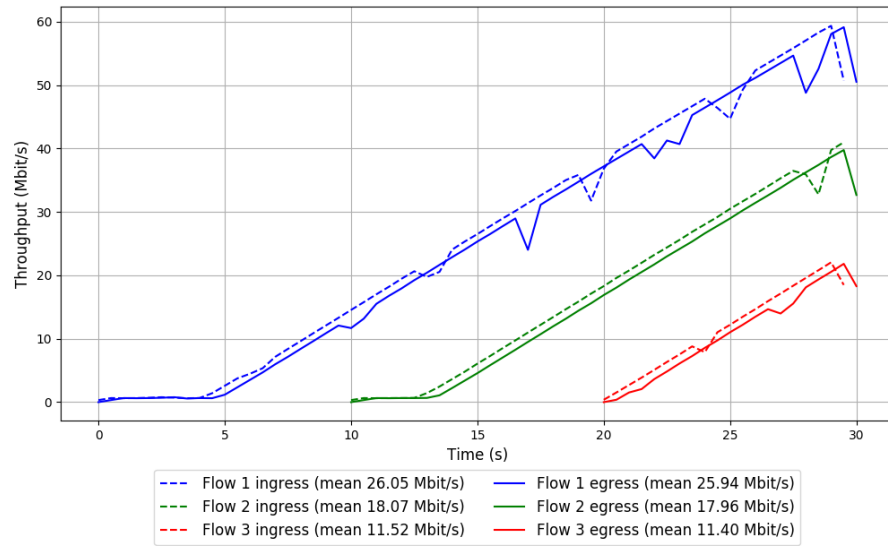


Run 2: Statistics of LEDBAT

Start at: 2018-06-07 17:03:40
End at: 2018-06-07 17:04:10
Local clock offset: 0.003 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.58 Mbit/s
95th percentile per-packet one-way delay: 51.993 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 51.861 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 17.96 Mbit/s
95th percentile per-packet one-way delay: 52.076 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 52.706 ms
Loss rate: 2.06%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-07 17:25:49

End at: 2018-06-07 17:26:19

Local clock offset: 0.006 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-07 21:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 51.965 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 35.33 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 23.29 Mbit/s

95th percentile per-packet one-way delay: 51.839 ms

Loss rate: 1.01%

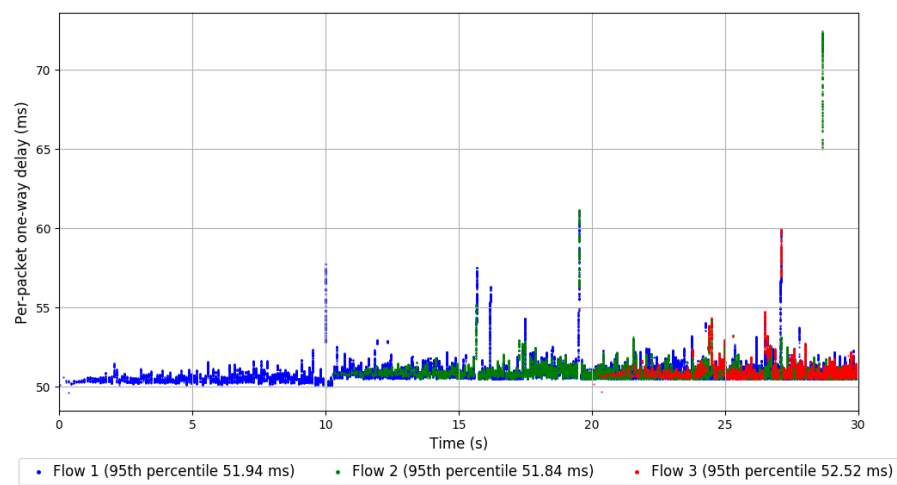
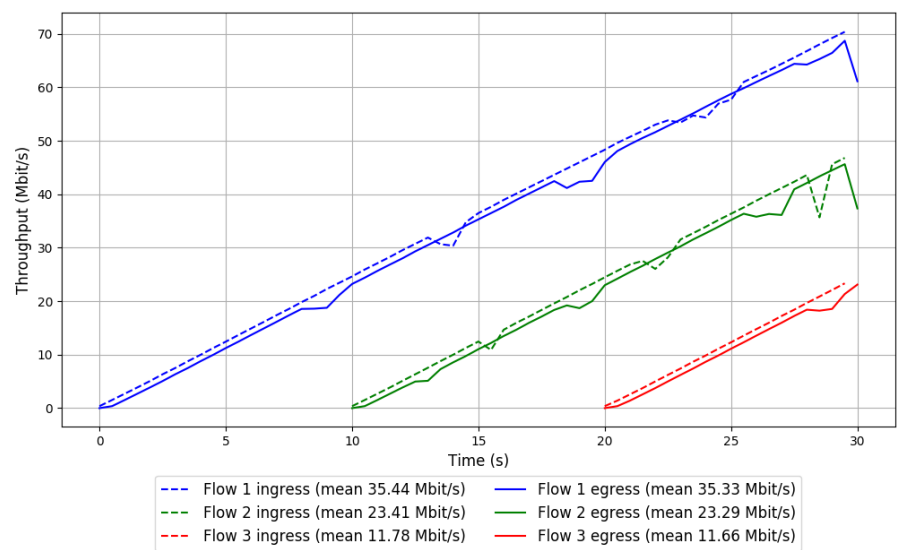
-- Flow 3:

Average throughput: 11.66 Mbit/s

95th percentile per-packet one-way delay: 52.520 ms

Loss rate: 2.03%

Run 3: Report of LEDBAT — Data Link

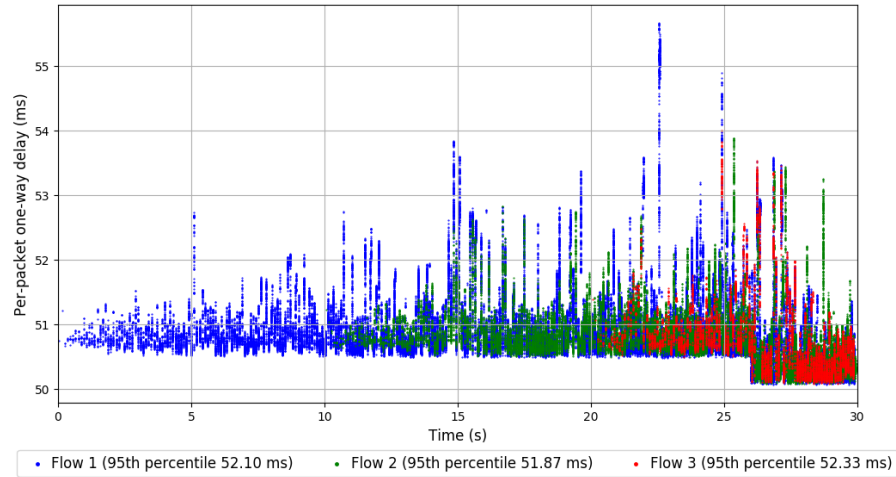
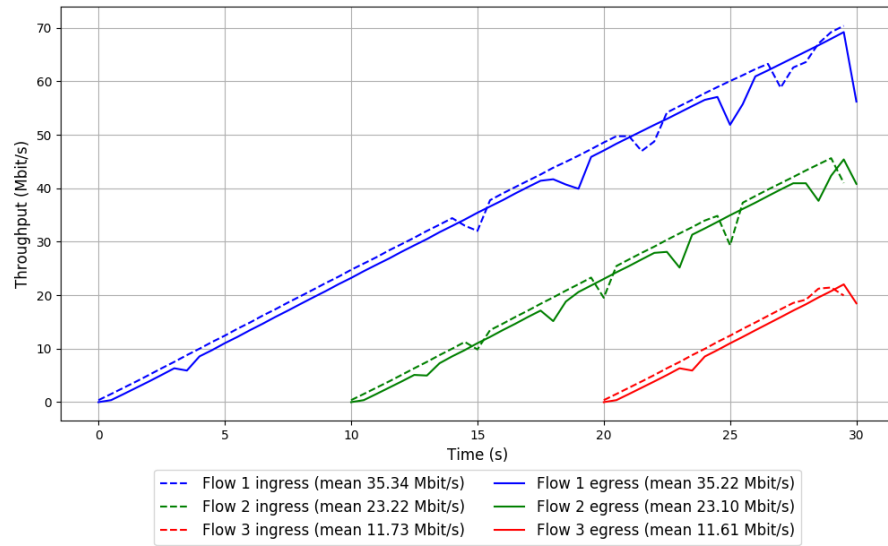


Run 4: Statistics of LEDBAT

Start at: 2018-06-07 17:48:04
End at: 2018-06-07 17:48:34
Local clock offset: 0.018 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.35 Mbit/s
95th percentile per-packet one-way delay: 52.043 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 35.22 Mbit/s
95th percentile per-packet one-way delay: 52.102 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.10 Mbit/s
95th percentile per-packet one-way delay: 51.874 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 52.332 ms
Loss rate: 2.04%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-07 18:10:14

End at: 2018-06-07 18:10:44

Local clock offset: 0.139 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-07 21:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 51.801 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 28.18 Mbit/s

95th percentile per-packet one-way delay: 51.679 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 23.32 Mbit/s

95th percentile per-packet one-way delay: 51.988 ms

Loss rate: 1.01%

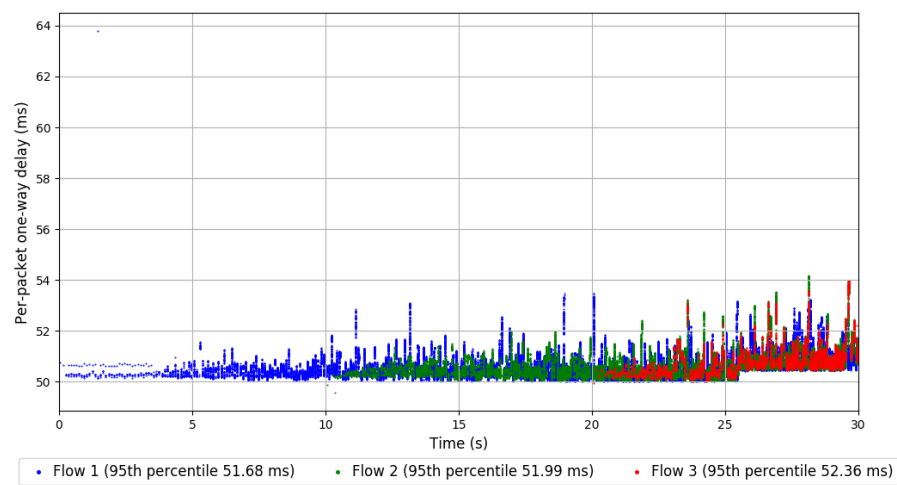
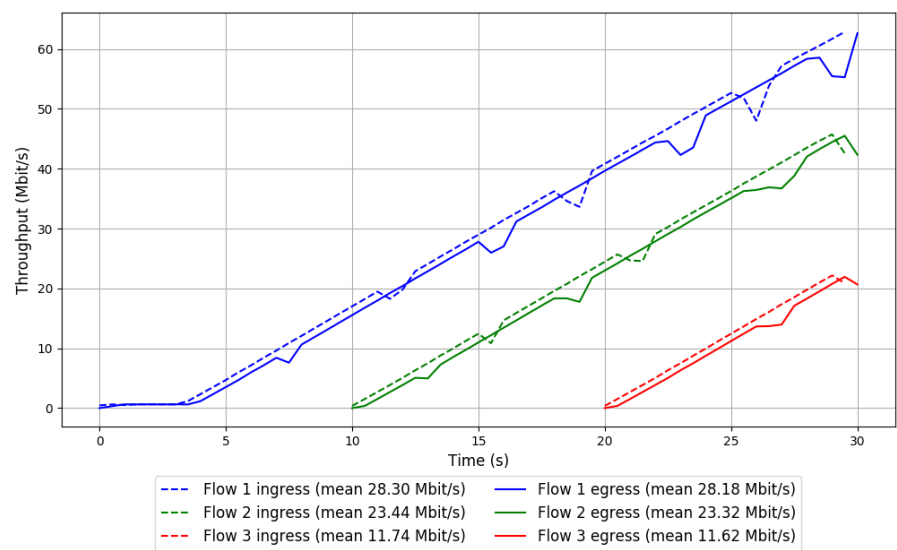
-- Flow 3:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 52.361 ms

Loss rate: 2.02%

Run 5: Report of LEDBAT — Data Link

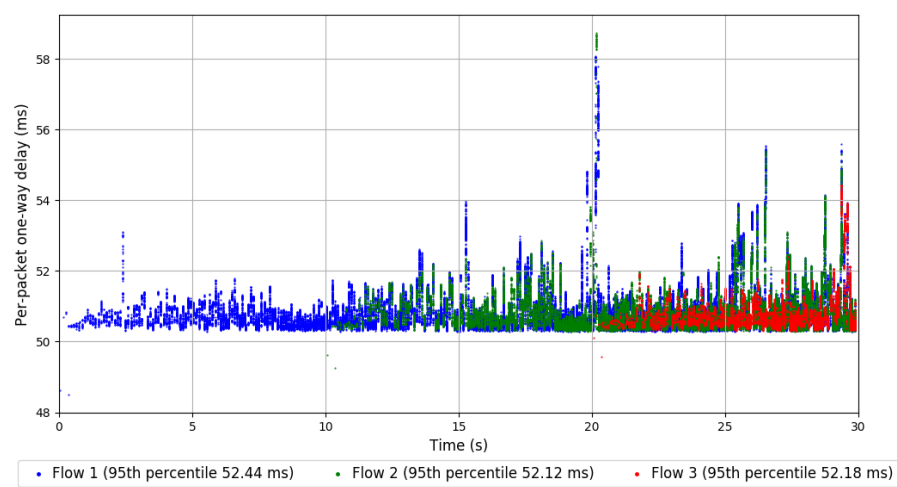
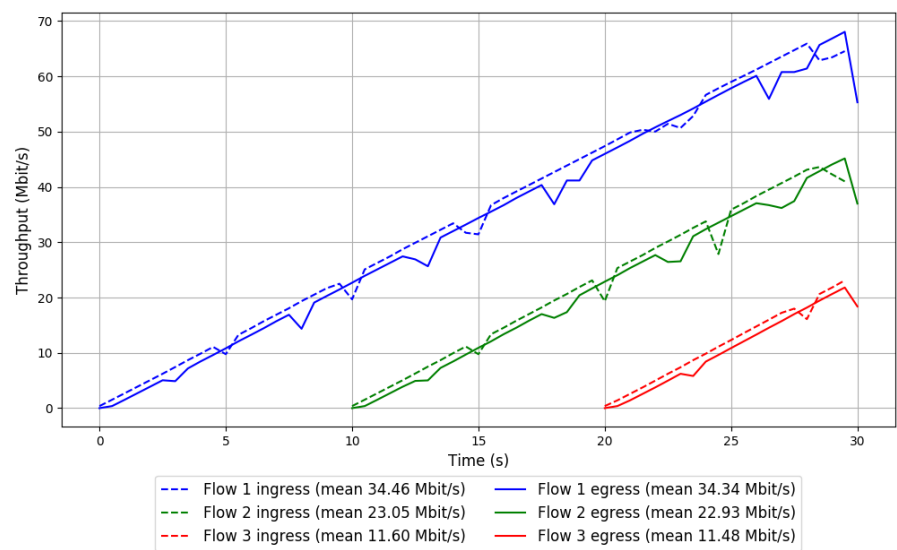


Run 6: Statistics of LEDBAT

Start at: 2018-06-07 18:32:20
End at: 2018-06-07 18:32:50
Local clock offset: -0.15 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.33 Mbit/s
95th percentile per-packet one-way delay: 52.334 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.34 Mbit/s
95th percentile per-packet one-way delay: 52.440 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 52.121 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 52.178 ms
Loss rate: 2.05%

Run 6: Report of LEDBAT — Data Link

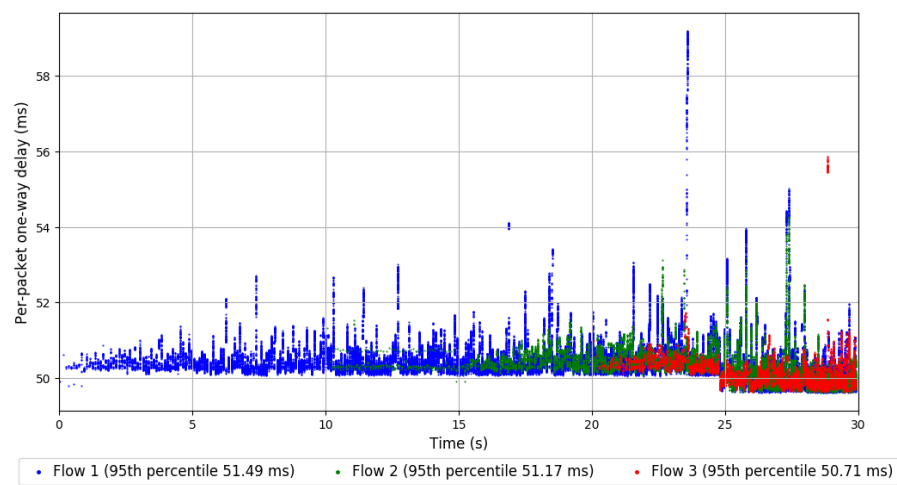
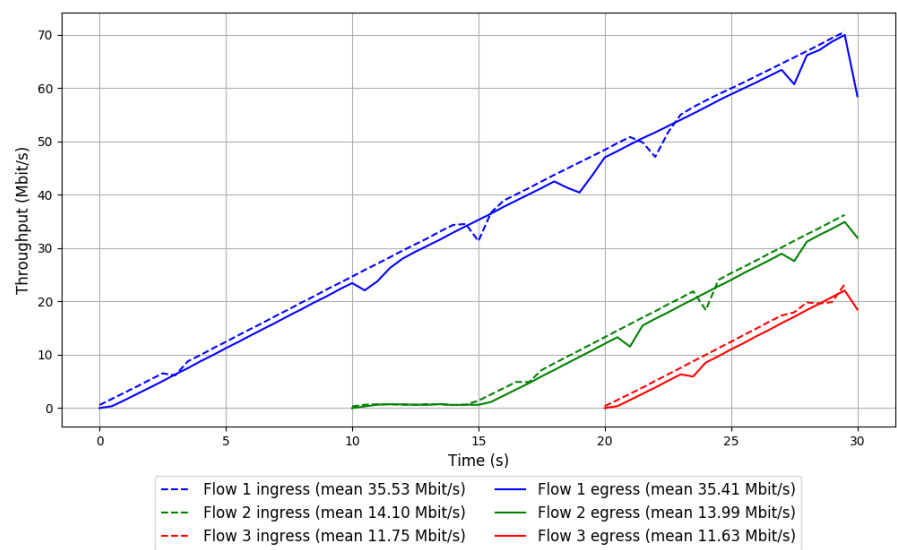


Run 7: Statistics of LEDBAT

Start at: 2018-06-07 18:54:45
End at: 2018-06-07 18:55:15
Local clock offset: 0.254 ms
Remote clock offset: -0.04 ms

```
# Below is generated by plot.py at 2018-06-07 21:31:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 51.369 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 35.41 Mbit/s
95th percentile per-packet one-way delay: 51.486 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 51.168 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 50.708 ms
Loss rate: 2.05%
```


Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-07 19:16:51

End at: 2018-06-07 19:17:21

Local clock offset: 0.286 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-07 21:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.67 Mbit/s

95th percentile per-packet one-way delay: 52.025 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 51.796 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 21.58 Mbit/s

95th percentile per-packet one-way delay: 52.232 ms

Loss rate: 1.05%

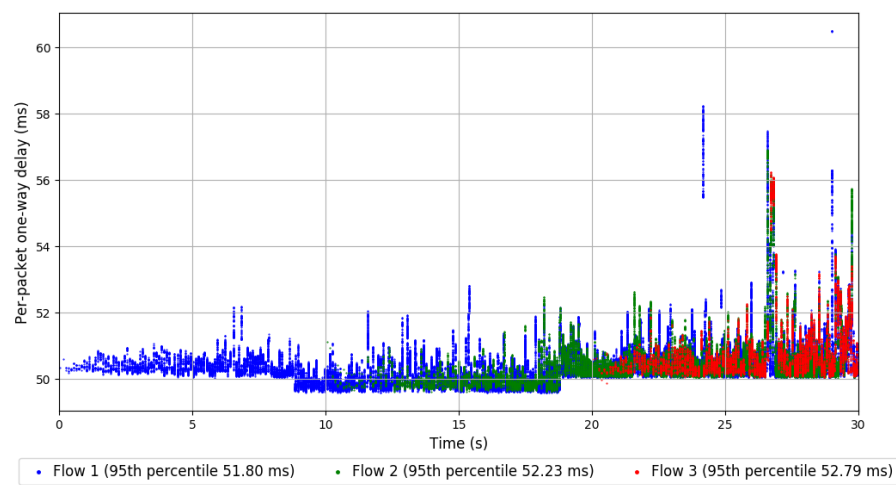
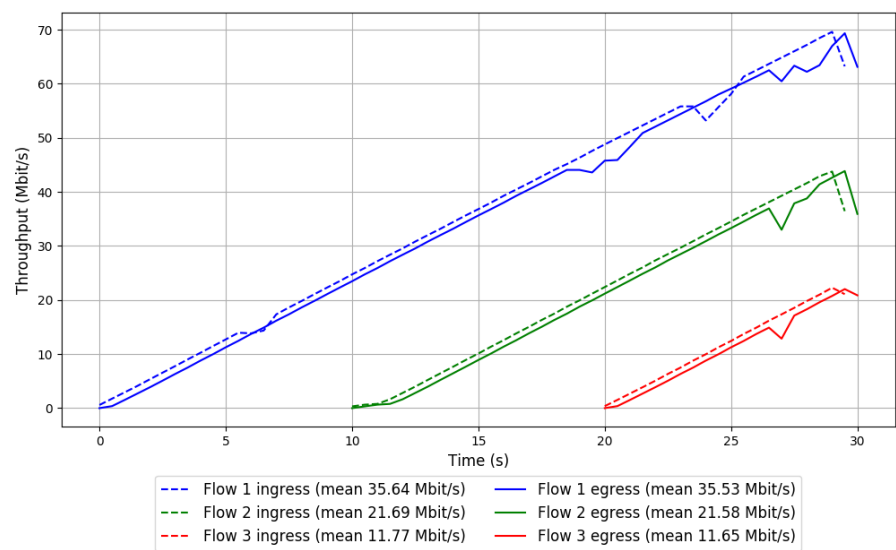
-- Flow 3:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 52.793 ms

Loss rate: 2.03%

Run 8: Report of LEDBAT — Data Link

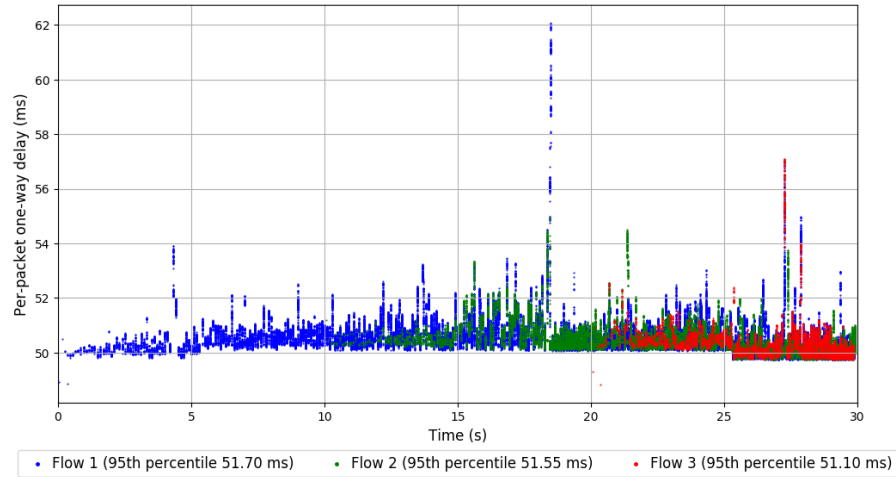
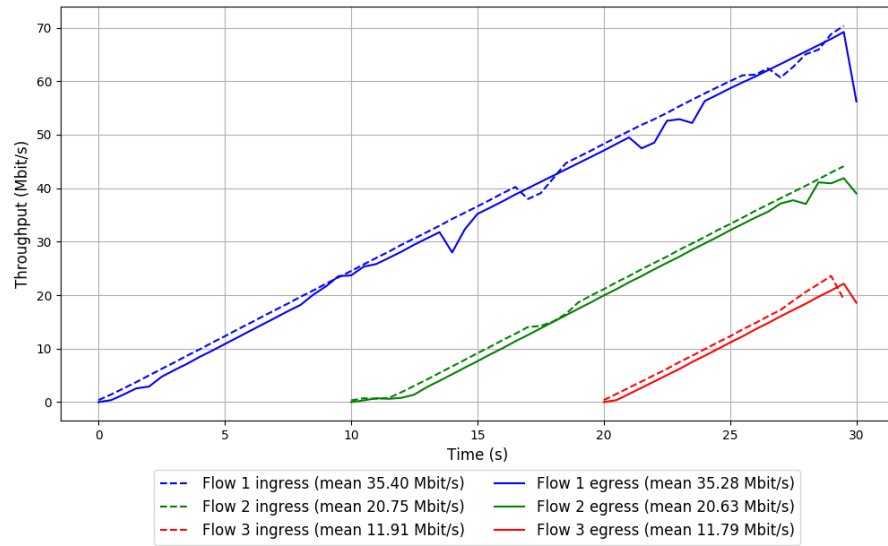


Run 9: Statistics of LEDBAT

Start at: 2018-06-07 19:39:04
End at: 2018-06-07 19:39:34
Local clock offset: 0.319 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.81 Mbit/s
95th percentile per-packet one-way delay: 51.645 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 35.28 Mbit/s
95th percentile per-packet one-way delay: 51.697 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 20.63 Mbit/s
95th percentile per-packet one-way delay: 51.550 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 51.098 ms
Loss rate: 2.02%

Run 9: Report of LEDBAT — Data Link

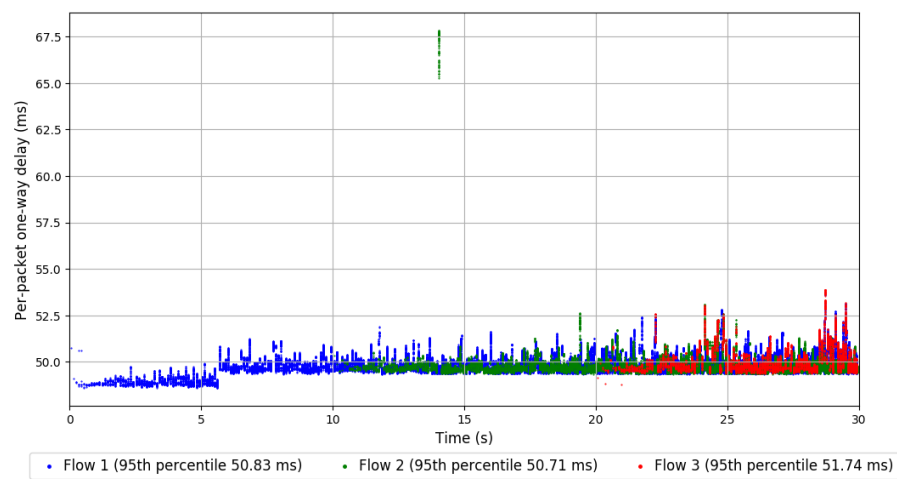
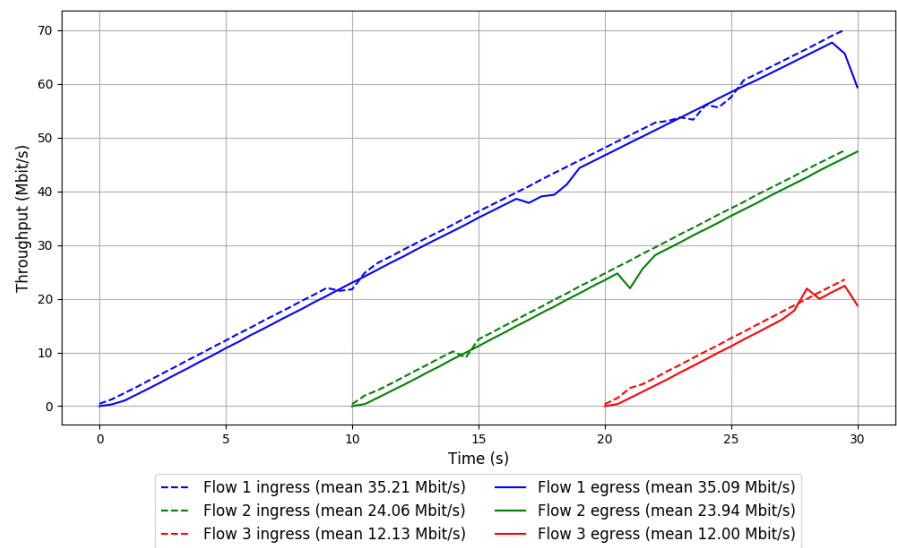


Run 10: Statistics of LEDBAT

Start at: 2018-06-07 20:01:04
End at: 2018-06-07 20:01:34
Local clock offset: -0.07 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.95 Mbit/s
95th percentile per-packet one-way delay: 50.875 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 35.09 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.94 Mbit/s
95th percentile per-packet one-way delay: 50.706 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 51.744 ms
Loss rate: 2.01%

Run 10: Report of LEDBAT — Data Link

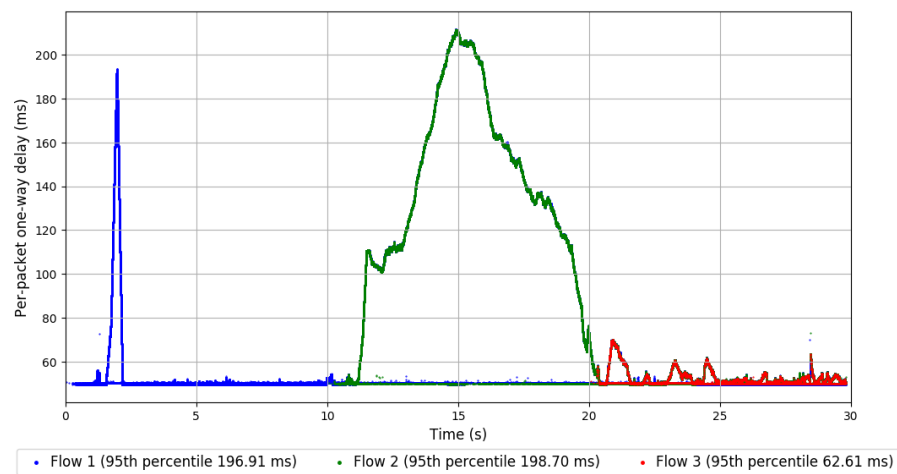
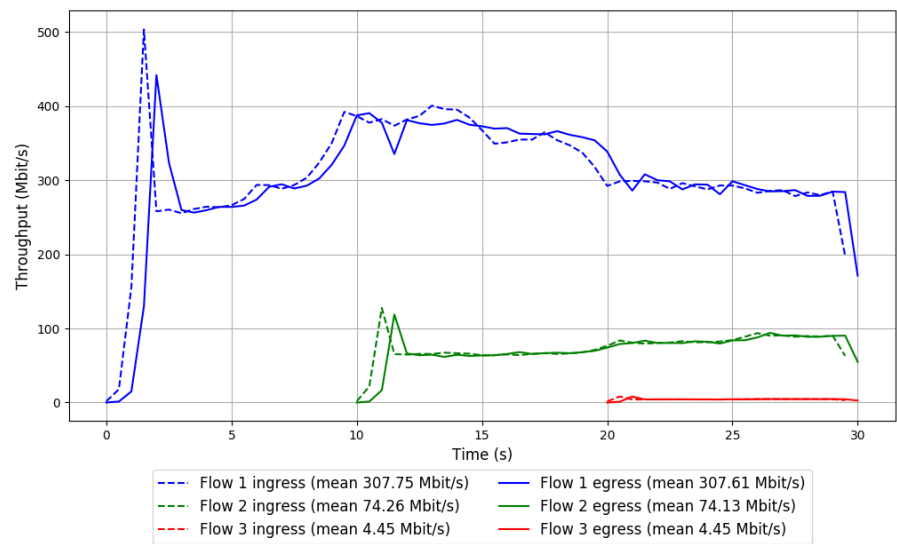


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-07 16:44:05
End at: 2018-06-07 16:44:35
Local clock offset: -0.029 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 358.25 Mbit/s
95th percentile per-packet one-way delay: 196.975 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 307.61 Mbit/s
95th percentile per-packet one-way delay: 196.913 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 74.13 Mbit/s
95th percentile per-packet one-way delay: 198.703 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 62.609 ms
Loss rate: 0.96%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-07 17:06:12

End at: 2018-06-07 17:06:42

Local clock offset: 0.376 ms

Remote clock offset: 0.009 ms

Below is generated by plot.py at 2018-06-07 21:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 361.04 Mbit/s

95th percentile per-packet one-way delay: 113.205 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 347.34 Mbit/s

95th percentile per-packet one-way delay: 112.888 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 4.54 Mbit/s

95th percentile per-packet one-way delay: 112.020 ms

Loss rate: 0.61%

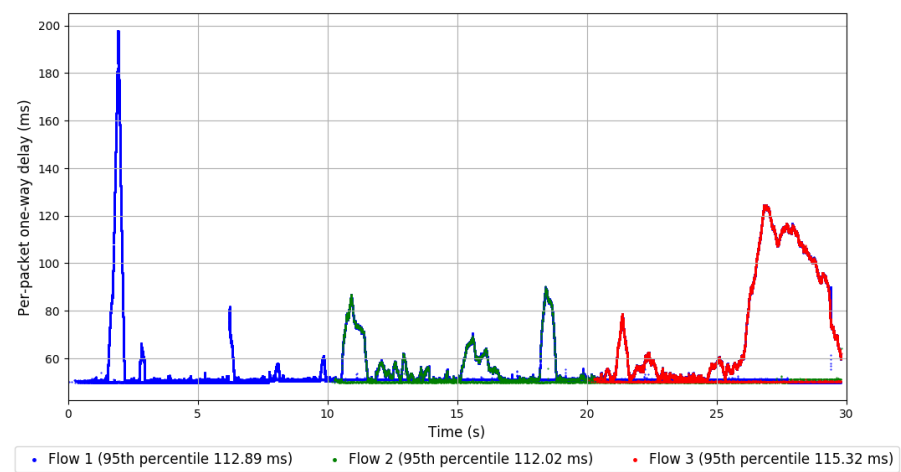
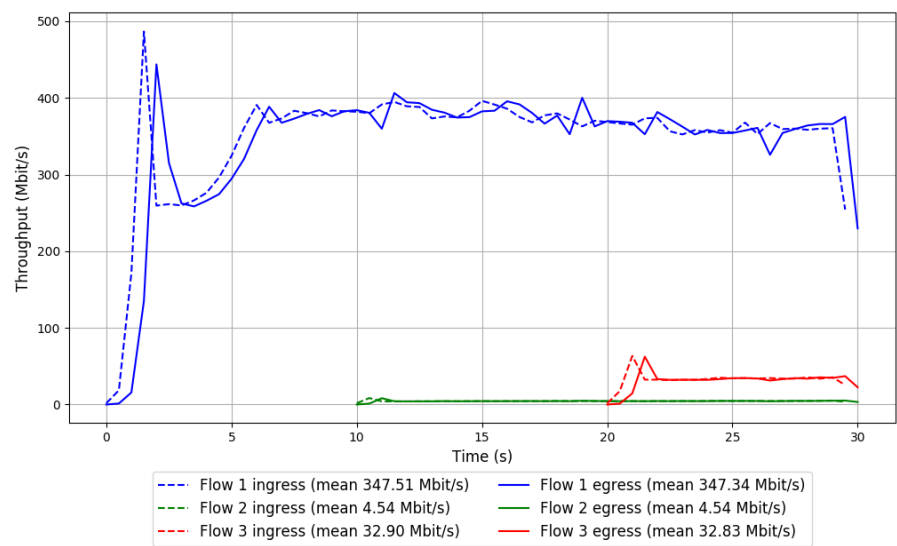
-- Flow 3:

Average throughput: 32.83 Mbit/s

95th percentile per-packet one-way delay: 115.319 ms

Loss rate: 1.23%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-07 17:28:26

End at: 2018-06-07 17:28:56

Local clock offset: 0.024 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-07 21:31:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 385.53 Mbit/s

95th percentile per-packet one-way delay: 210.568 ms

Loss rate: 4.15%

-- Flow 1:

Average throughput: 363.59 Mbit/s

95th percentile per-packet one-way delay: 210.526 ms

Loss rate: 4.08%

-- Flow 2:

Average throughput: 31.21 Mbit/s

95th percentile per-packet one-way delay: 211.409 ms

Loss rate: 5.01%

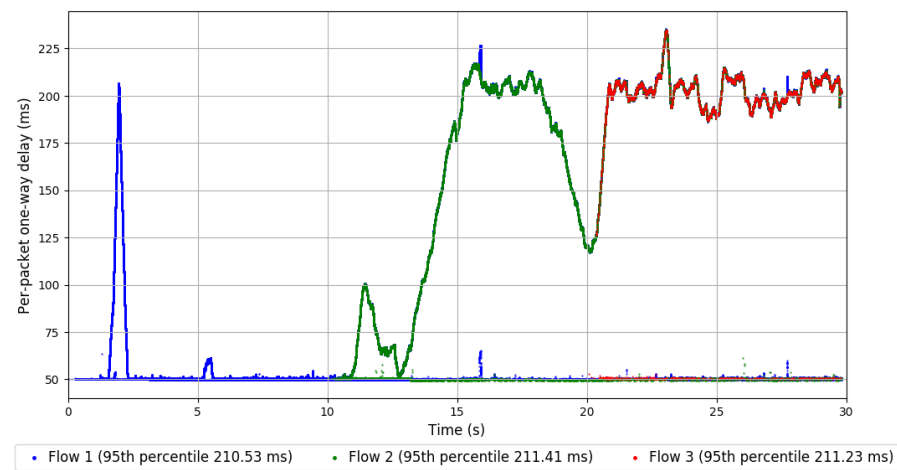
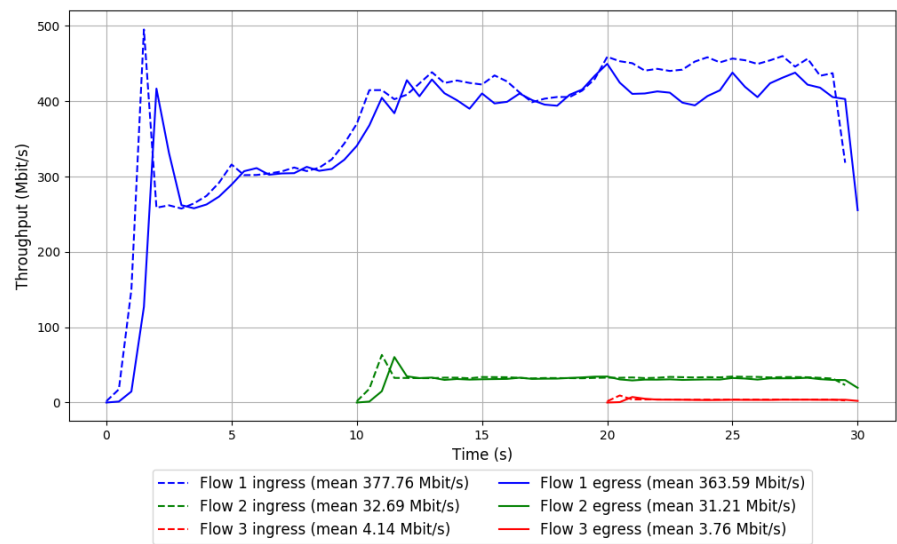
-- Flow 3:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 211.226 ms

Loss rate: 10.20%

Run 3: Report of PCC-Allegro — Data Link

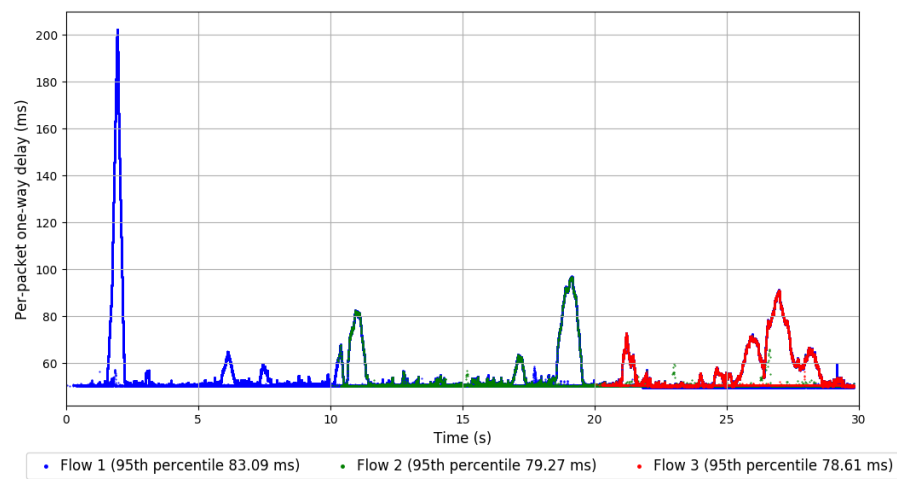
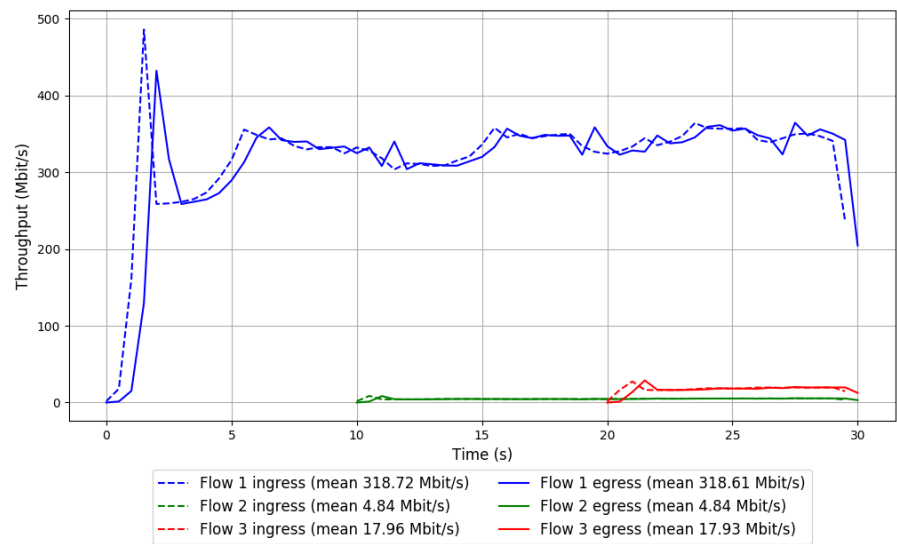


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-07 17:50:38
End at: 2018-06-07 17:51:08
Local clock offset: 0.025 ms
Remote clock offset: -0.014 ms

```
# Below is generated by plot.py at 2018-06-07 21:31:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.67 Mbit/s
95th percentile per-packet one-way delay: 82.594 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 318.61 Mbit/s
95th percentile per-packet one-way delay: 83.091 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 79.273 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 78.605 ms
Loss rate: 1.16%
```

Run 4: Report of PCC-Allegro — Data Link

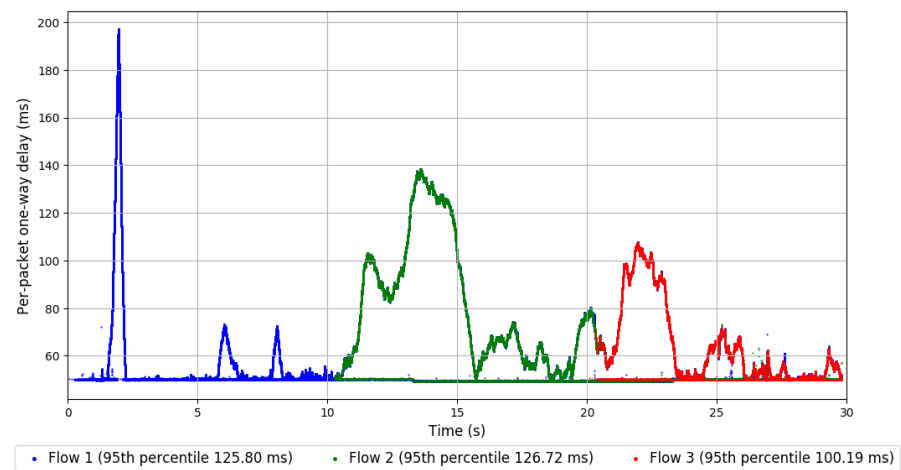
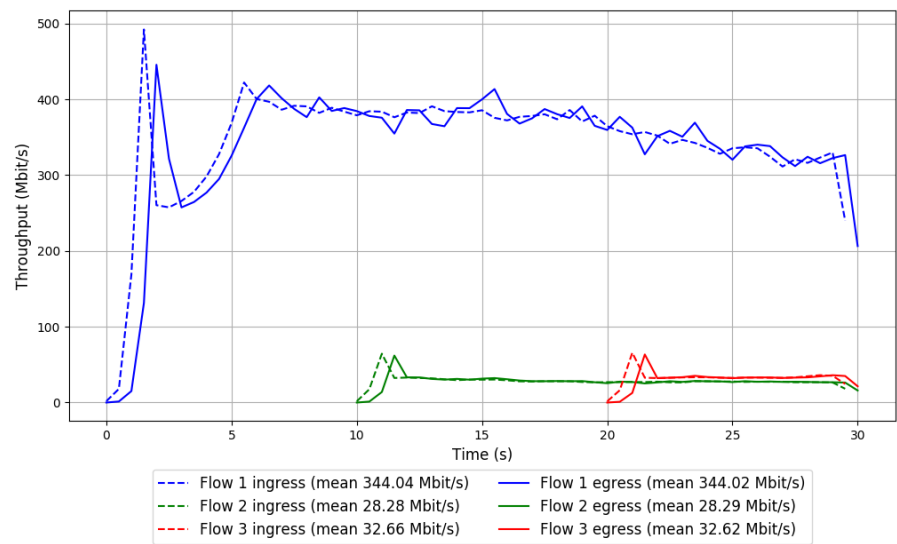


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-07 18:12:46
End at: 2018-06-07 18:13:16
Local clock offset: -0.205 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 373.38 Mbit/s
95th percentile per-packet one-way delay: 125.535 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 344.02 Mbit/s
95th percentile per-packet one-way delay: 125.801 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 126.722 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 100.186 ms
Loss rate: 1.09%

Run 5: Report of PCC-Allegro — Data Link

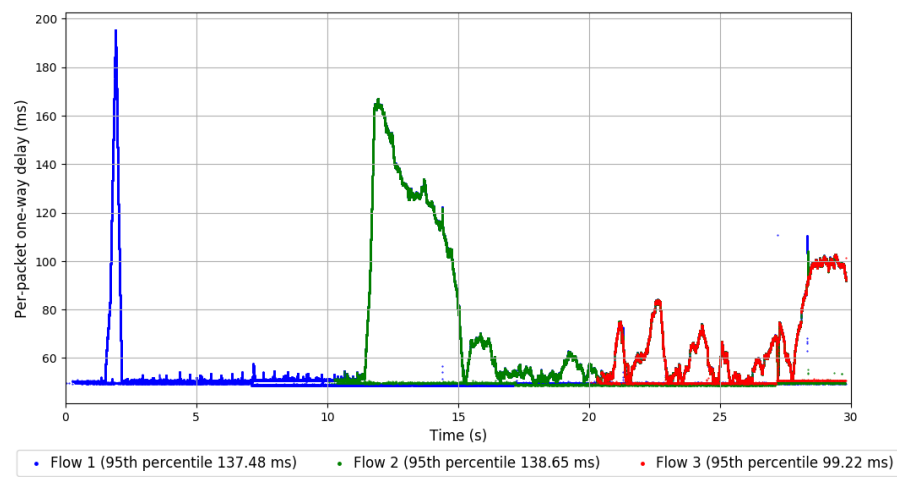
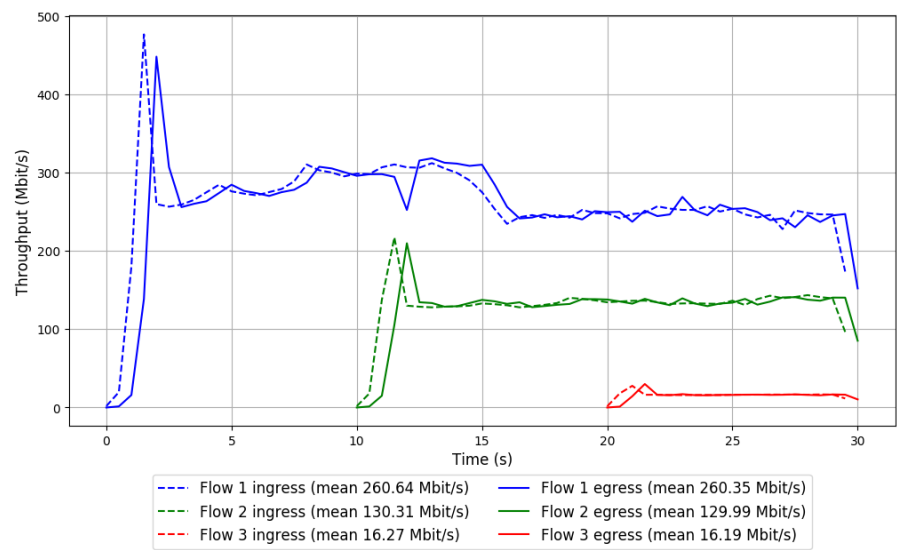


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-07 18:34:52
End at: 2018-06-07 18:35:22
Local clock offset: 0.204 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-07 21:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.82 Mbit/s
95th percentile per-packet one-way delay: 137.497 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 260.35 Mbit/s
95th percentile per-packet one-way delay: 137.477 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 129.99 Mbit/s
95th percentile per-packet one-way delay: 138.647 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 16.19 Mbit/s
95th percentile per-packet one-way delay: 99.223 ms
Loss rate: 1.45%

Run 6: Report of PCC-Allegro — Data Link

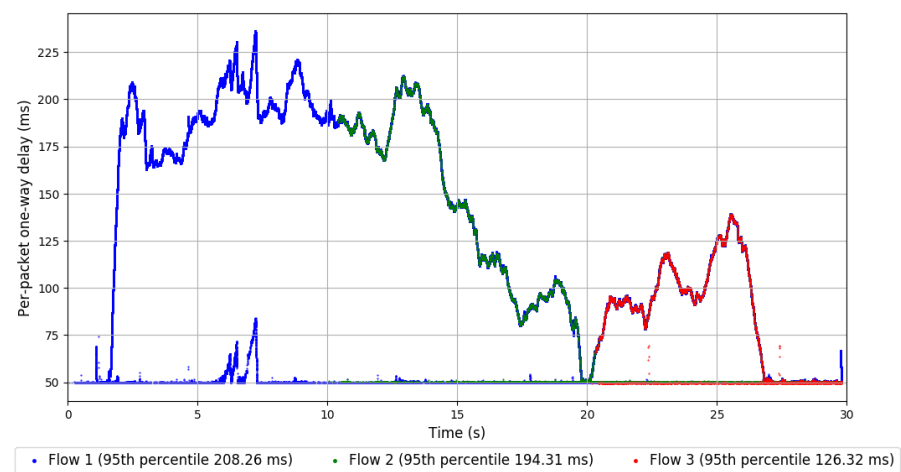
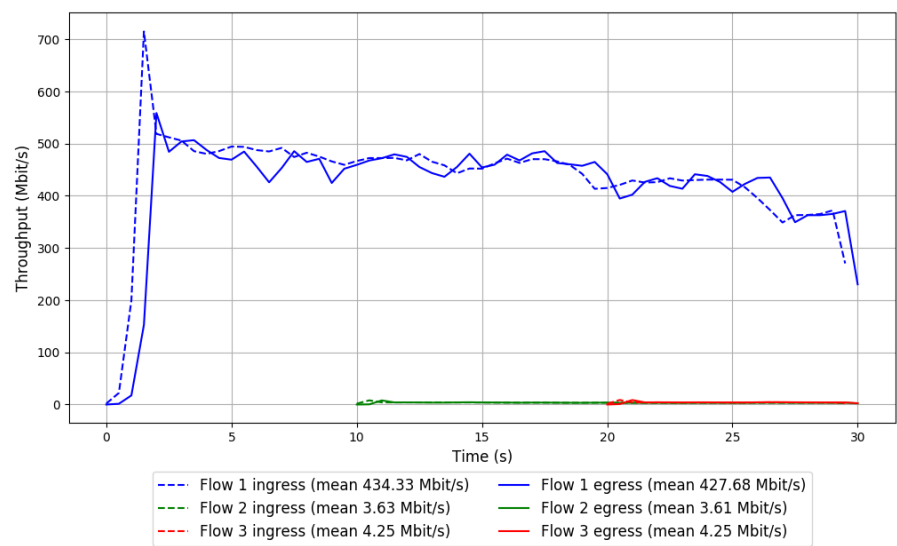


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-07 18:57:17
End at: 2018-06-07 18:57:47
Local clock offset: 0.25 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-06-07 21:32:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 431.44 Mbit/s
95th percentile per-packet one-way delay: 208.209 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 427.68 Mbit/s
95th percentile per-packet one-way delay: 208.257 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 194.310 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 126.321 ms
Loss rate: 0.97%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-07 19:19:27

End at: 2018-06-07 19:19:57

Local clock offset: 0.658 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-07 21:32:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 376.27 Mbit/s

95th percentile per-packet one-way delay: 171.849 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 363.15 Mbit/s

95th percentile per-packet one-way delay: 172.023 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 171.862 ms

Loss rate: 0.57%

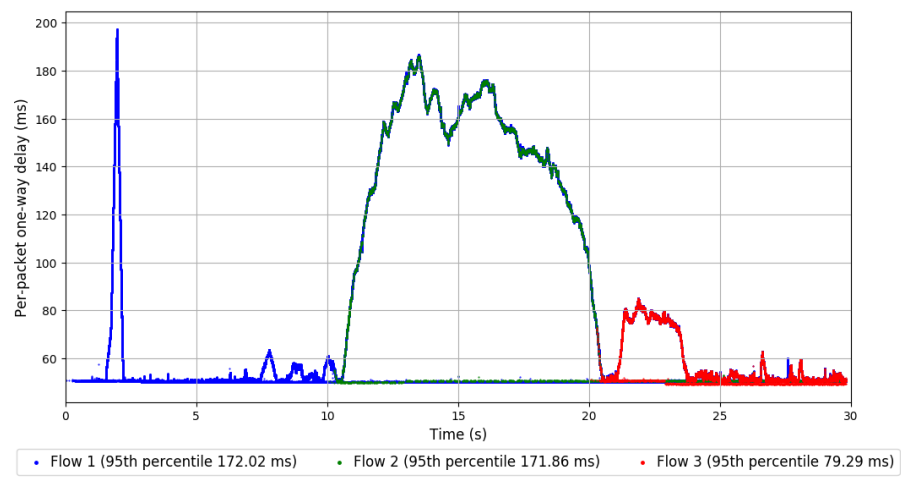
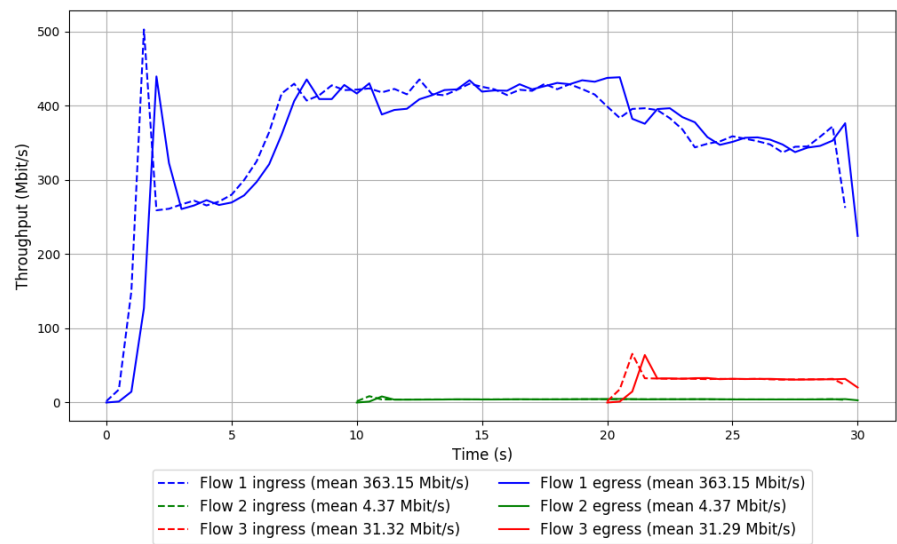
-- Flow 3:

Average throughput: 31.29 Mbit/s

95th percentile per-packet one-way delay: 79.294 ms

Loss rate: 1.10%

Run 8: Report of PCC-Allegro — Data Link

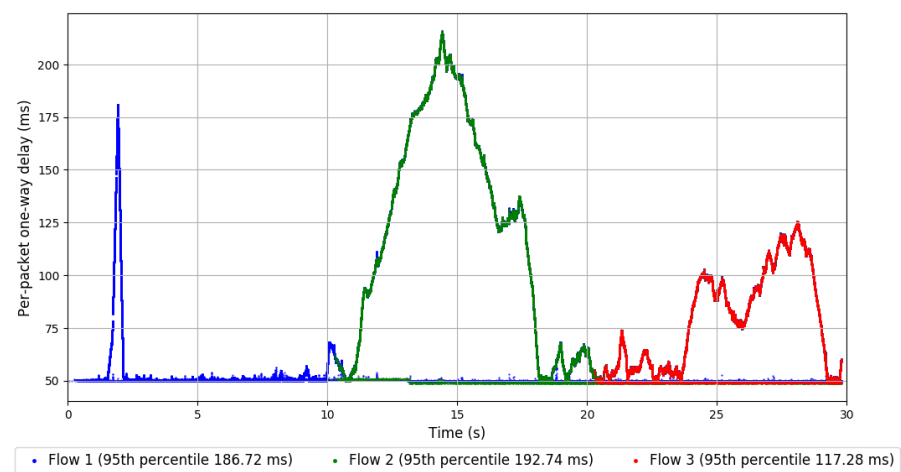
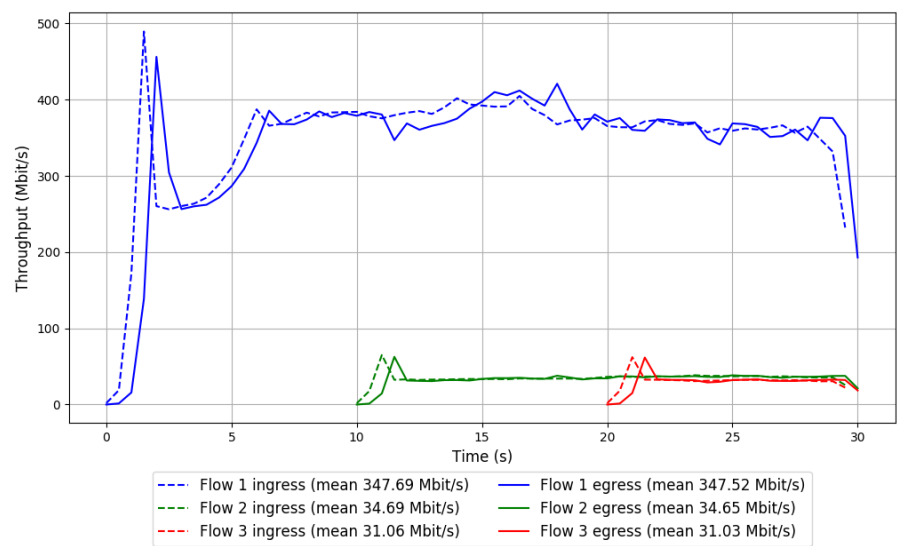


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-07 19:41:36
End at: 2018-06-07 19:42:06
Local clock offset: 0.361 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-07 21:32:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 380.67 Mbit/s
95th percentile per-packet one-way delay: 186.324 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 347.52 Mbit/s
95th percentile per-packet one-way delay: 186.725 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 192.740 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 117.276 ms
Loss rate: 1.10%

Run 9: Report of PCC-Allegro — Data Link

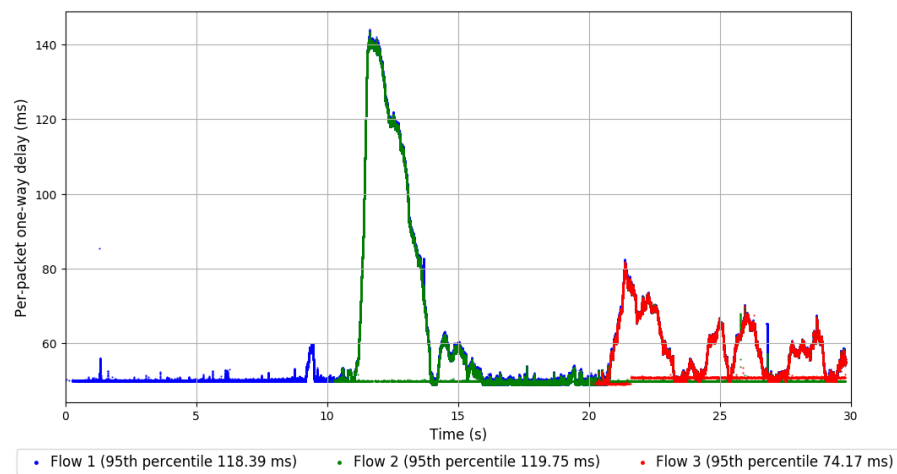
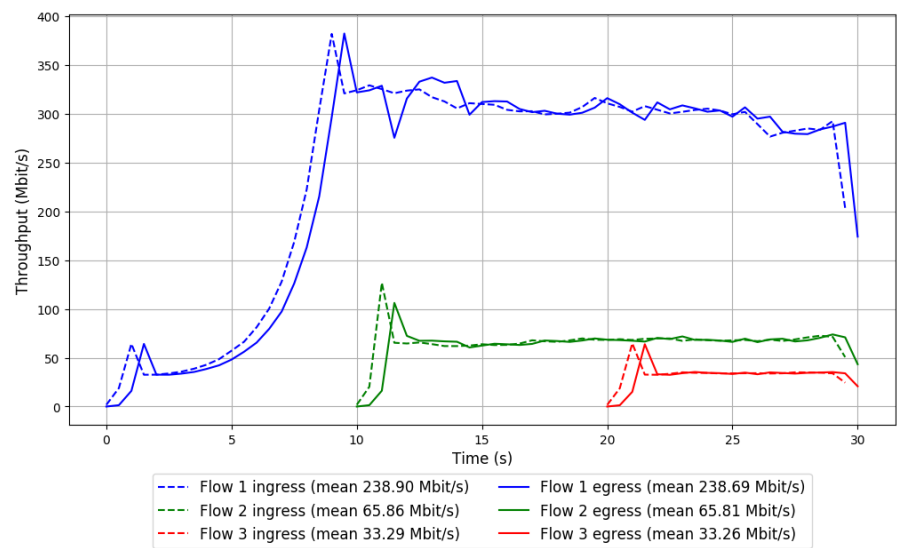


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-07 20:03:38
End at: 2018-06-07 20:04:08
Local clock offset: 0.334 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-07 21:32:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.27 Mbit/s
95th percentile per-packet one-way delay: 118.322 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 238.69 Mbit/s
95th percentile per-packet one-way delay: 118.389 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 65.81 Mbit/s
95th percentile per-packet one-way delay: 119.747 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 33.26 Mbit/s
95th percentile per-packet one-way delay: 74.173 ms
Loss rate: 1.12%

Run 10: Report of PCC-Allegro — Data Link

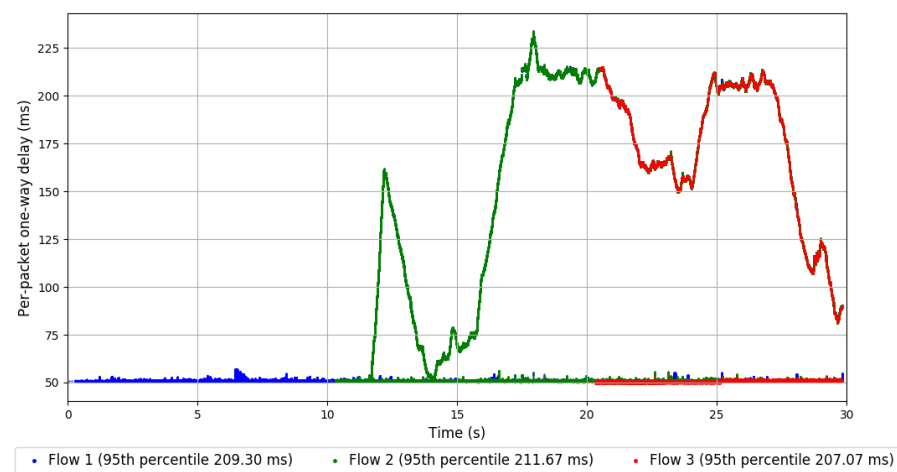
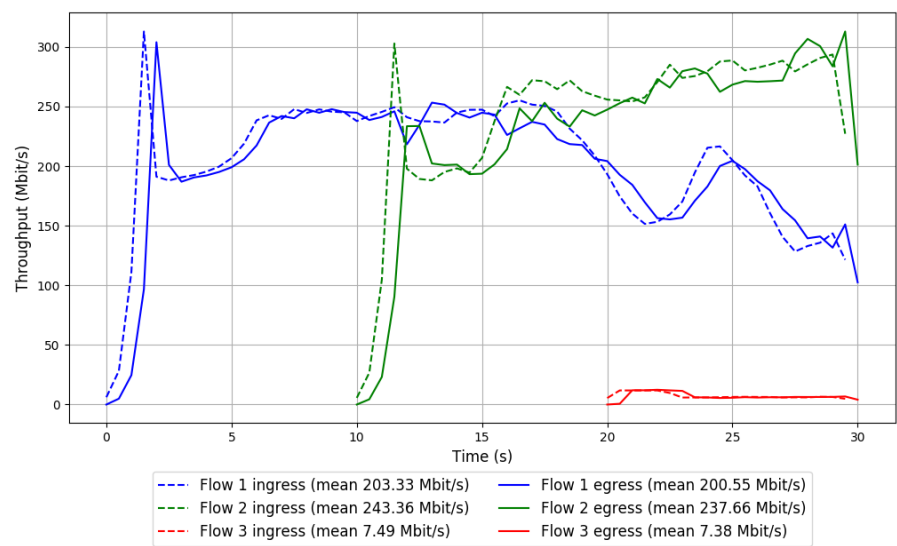


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-07 16:50:44
End at: 2018-06-07 16:51:14
Local clock offset: -0.082 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 21:37:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 360.74 Mbit/s
95th percentile per-packet one-way delay: 210.401 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 200.55 Mbit/s
95th percentile per-packet one-way delay: 209.296 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 237.66 Mbit/s
95th percentile per-packet one-way delay: 211.666 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 207.074 ms
Loss rate: 2.39%
```

Run 1: Report of PCC-Expr — Data Link

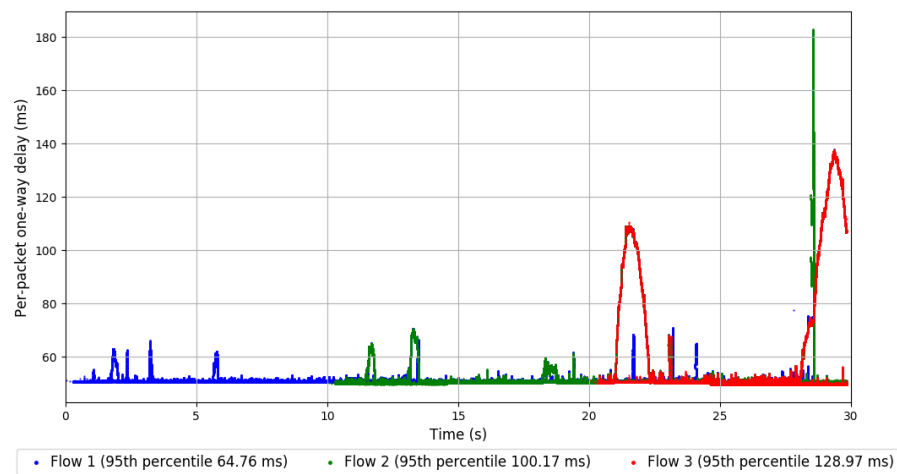
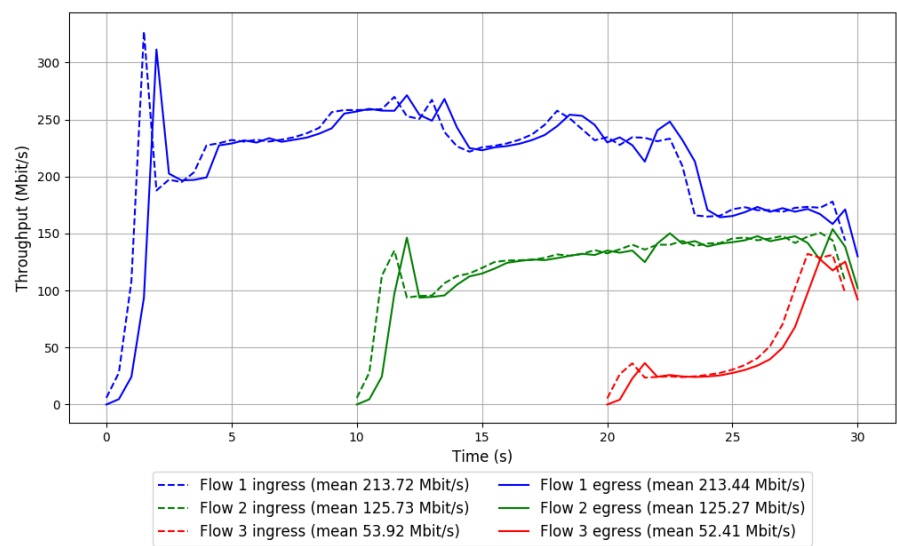


Run 2: Statistics of PCC-Expr

Start at: 2018-06-07 17:12:55
End at: 2018-06-07 17:13:25
Local clock offset: -0.018 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-07 21:37:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.70 Mbit/s
95th percentile per-packet one-way delay: 82.675 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 213.44 Mbit/s
95th percentile per-packet one-way delay: 64.758 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 125.27 Mbit/s
95th percentile per-packet one-way delay: 100.165 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 52.41 Mbit/s
95th percentile per-packet one-way delay: 128.973 ms
Loss rate: 3.78%

Run 2: Report of PCC-Expr — Data Link

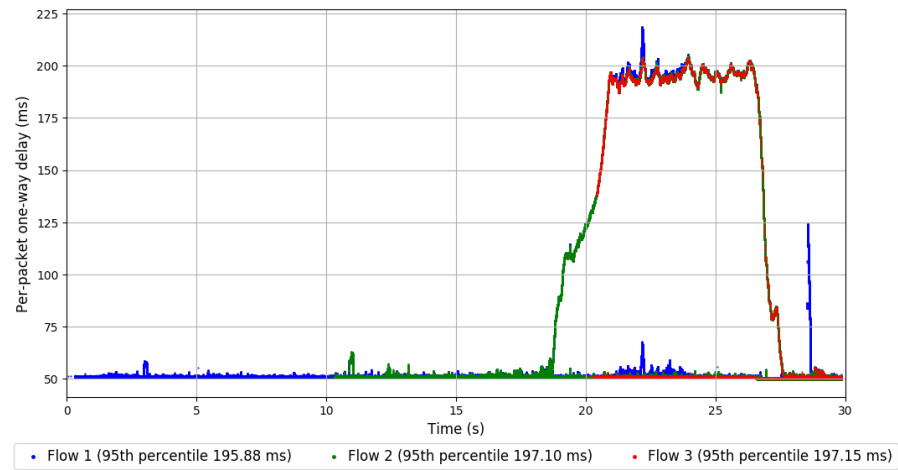
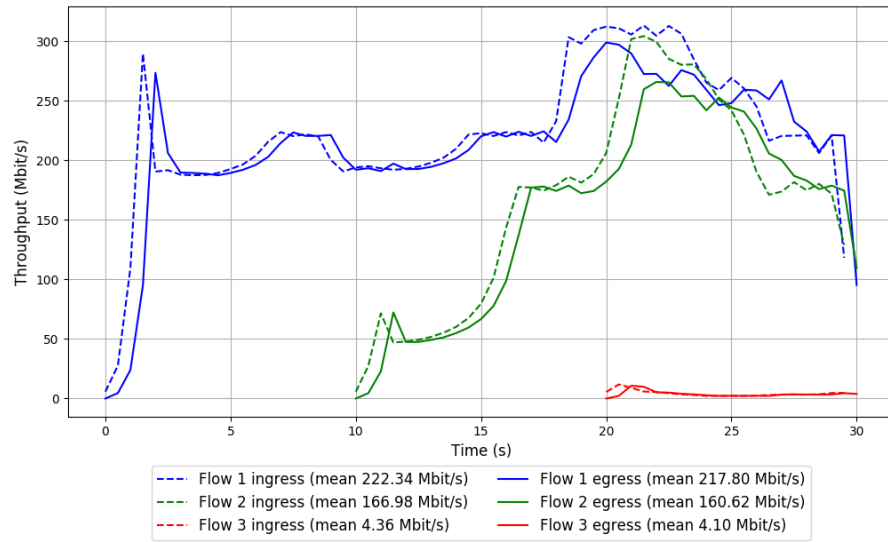


Run 3: Statistics of PCC-Expr

Start at: 2018-06-07 17:35:13
End at: 2018-06-07 17:35:43
Local clock offset: 0.414 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-07 21:39:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.78 Mbit/s
95th percentile per-packet one-way delay: 196.317 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 217.80 Mbit/s
95th percentile per-packet one-way delay: 195.884 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 160.62 Mbit/s
95th percentile per-packet one-way delay: 197.103 ms
Loss rate: 4.29%
-- Flow 3:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 197.153 ms
Loss rate: 6.97%

Run 3: Report of PCC-Expr — Data Link

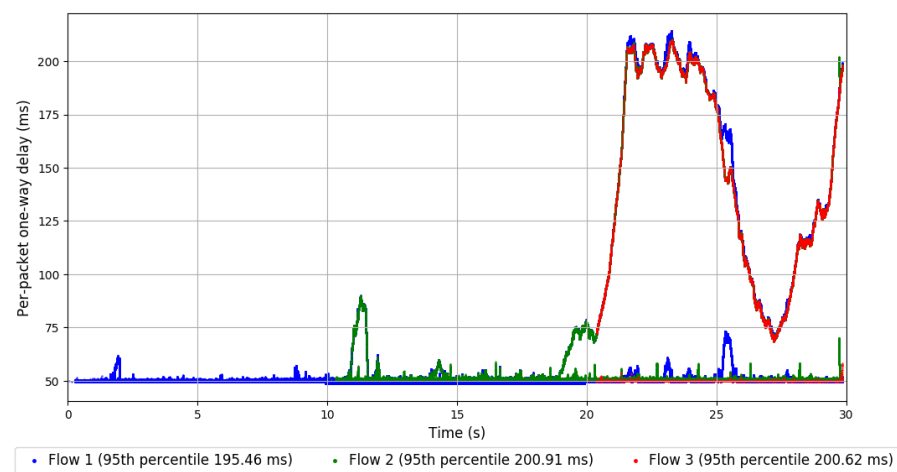
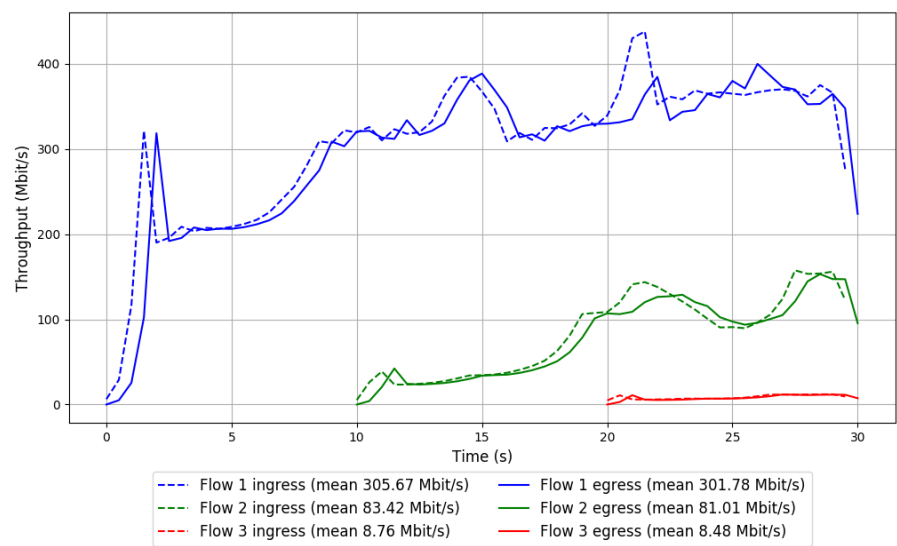


Run 4: Statistics of PCC-Expr

Start at: 2018-06-07 17:57:20
End at: 2018-06-07 17:57:50
Local clock offset: 0.039 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-07 21:42:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 358.32 Mbit/s
95th percentile per-packet one-way delay: 196.335 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 301.78 Mbit/s
95th percentile per-packet one-way delay: 195.458 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 81.01 Mbit/s
95th percentile per-packet one-way delay: 200.910 ms
Loss rate: 3.38%
-- Flow 3:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 200.615 ms
Loss rate: 4.16%

Run 4: Report of PCC-Expr — Data Link

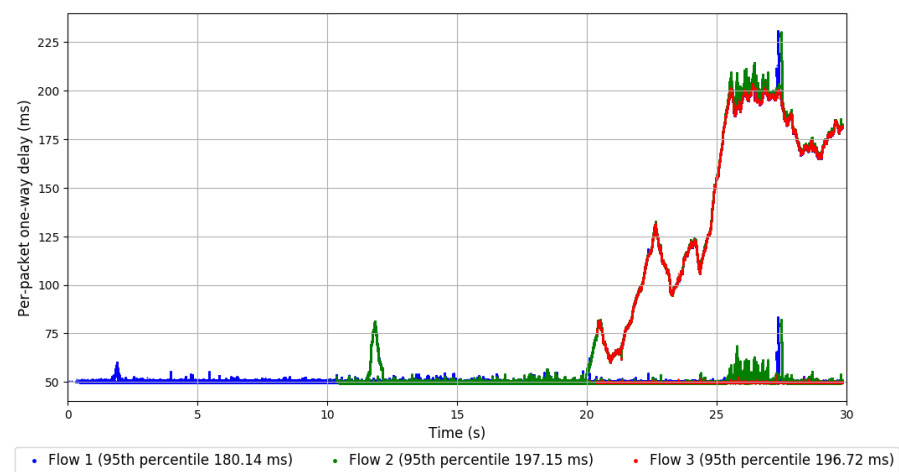
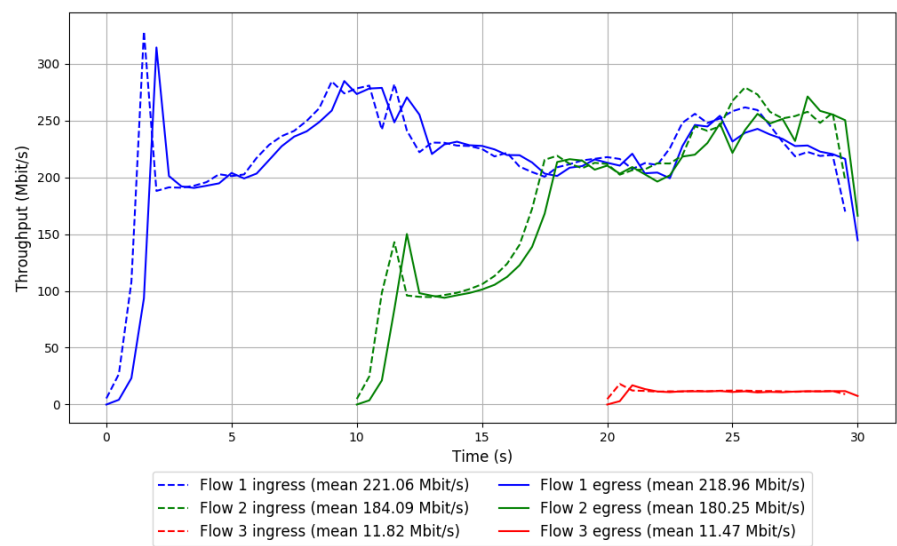


Run 5: Statistics of PCC-Expr

Start at: 2018-06-07 18:19:29
End at: 2018-06-07 18:19:59
Local clock offset: 0.129 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-06-07 21:42:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 342.37 Mbit/s
95th percentile per-packet one-way delay: 188.621 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 218.96 Mbit/s
95th percentile per-packet one-way delay: 180.136 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 180.25 Mbit/s
95th percentile per-packet one-way delay: 197.153 ms
Loss rate: 2.59%
-- Flow 3:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 196.719 ms
Loss rate: 3.90%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-07 18:41:38

End at: 2018-06-07 18:42:08

Local clock offset: 0.248 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-07 21:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.42 Mbit/s

95th percentile per-packet one-way delay: 206.780 ms

Loss rate: 3.66%

-- Flow 1:

Average throughput: 242.10 Mbit/s

95th percentile per-packet one-way delay: 216.035 ms

Loss rate: 4.04%

-- Flow 2:

Average throughput: 165.93 Mbit/s

95th percentile per-packet one-way delay: 192.885 ms

Loss rate: 2.80%

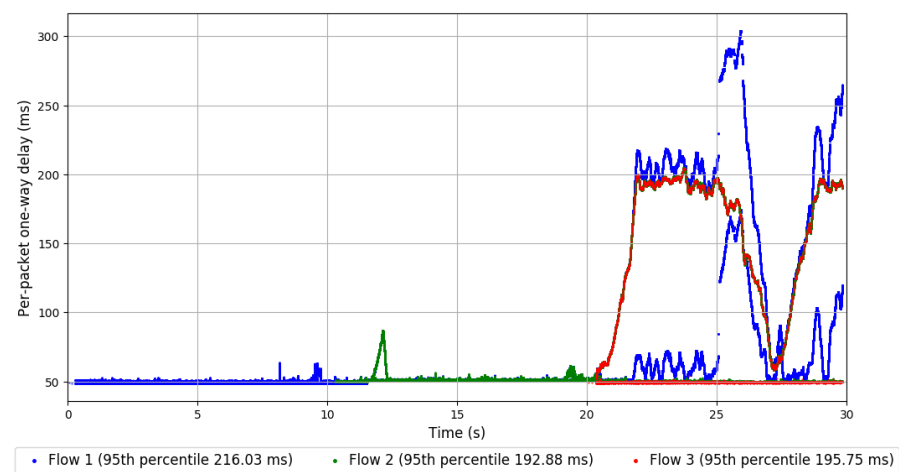
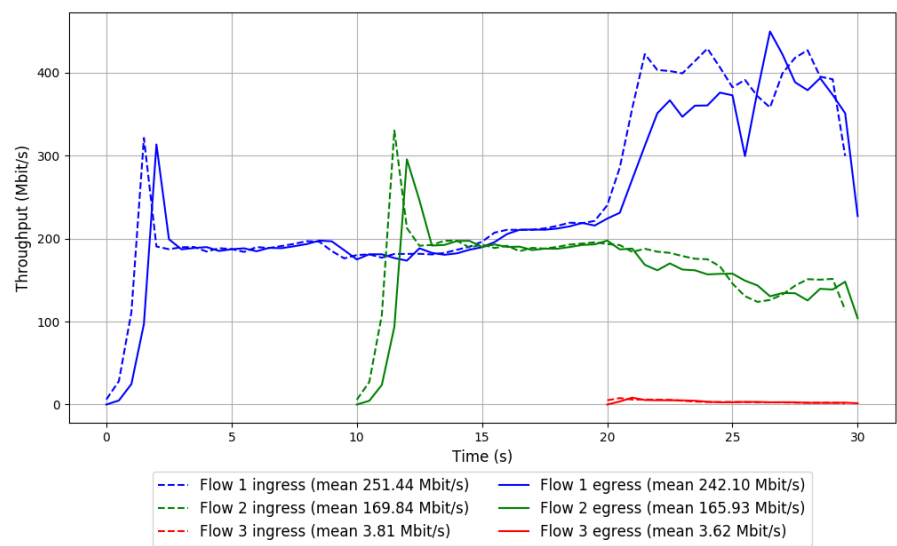
-- Flow 3:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 195.748 ms

Loss rate: 6.07%

Run 6: Report of PCC-Expr — Data Link

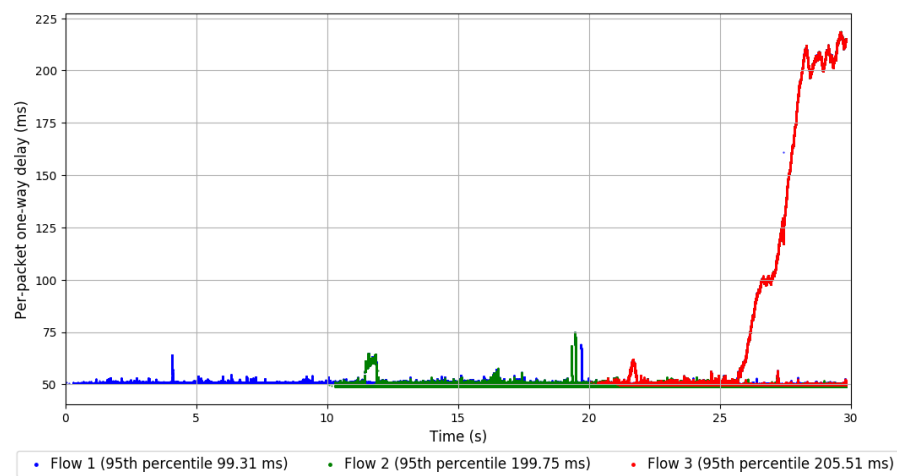
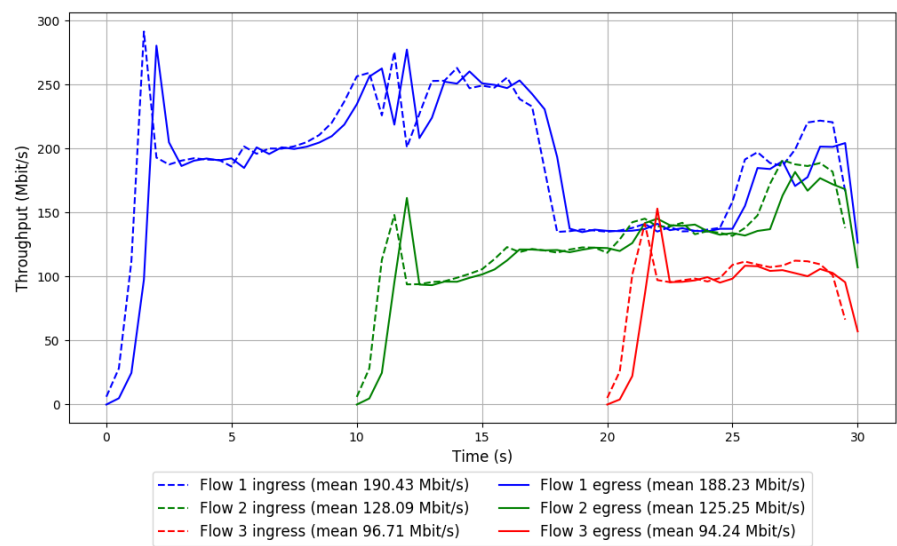


Run 7: Statistics of PCC-Expr

Start at: 2018-06-07 19:03:58
End at: 2018-06-07 19:04:28
Local clock offset: 0.669 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-07 21:43:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 302.23 Mbit/s
95th percentile per-packet one-way delay: 162.232 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 188.23 Mbit/s
95th percentile per-packet one-way delay: 99.306 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 125.25 Mbit/s
95th percentile per-packet one-way delay: 199.745 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 205.507 ms
Loss rate: 3.54%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-07 19:26:09

End at: 2018-06-07 19:26:39

Local clock offset: 0.351 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-06-07 21:44:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.58 Mbit/s

95th percentile per-packet one-way delay: 57.555 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 294.13 Mbit/s

95th percentile per-packet one-way delay: 58.209 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 54.475 ms

Loss rate: 1.08%

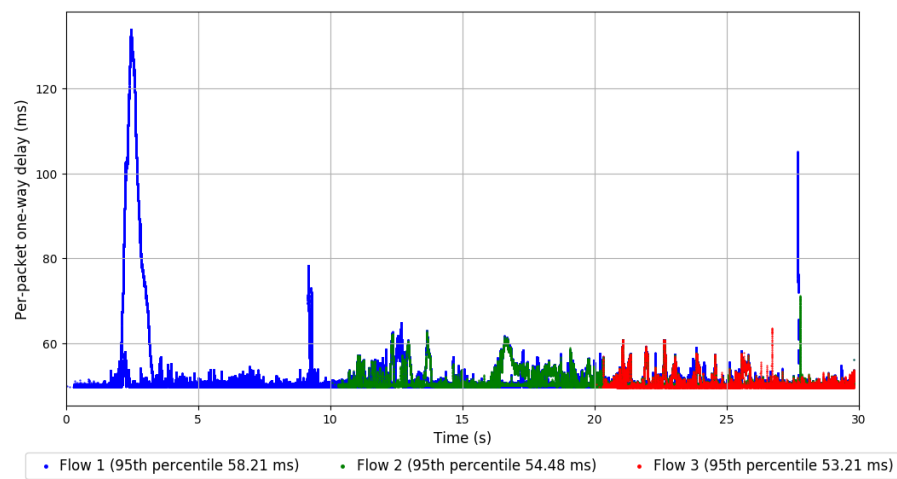
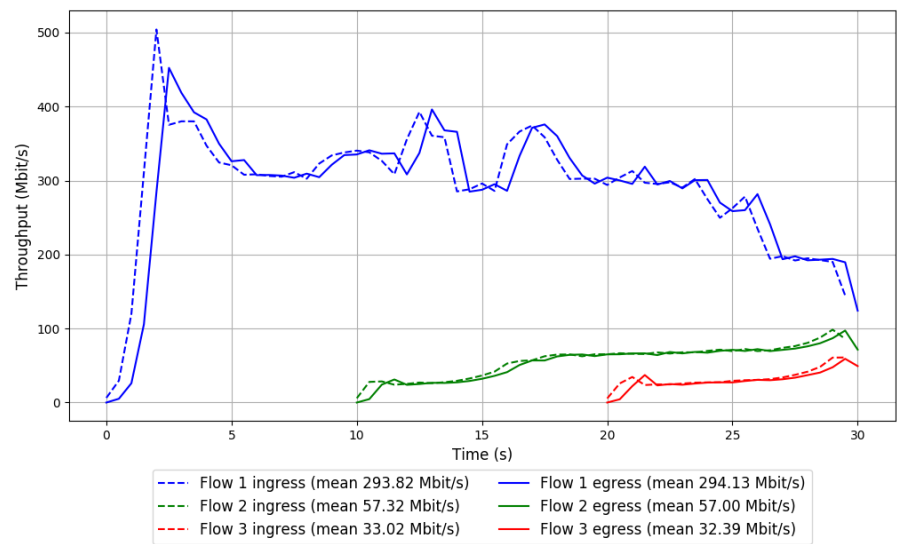
-- Flow 3:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 53.209 ms

Loss rate: 2.90%

Run 8: Report of PCC-Expr — Data Link

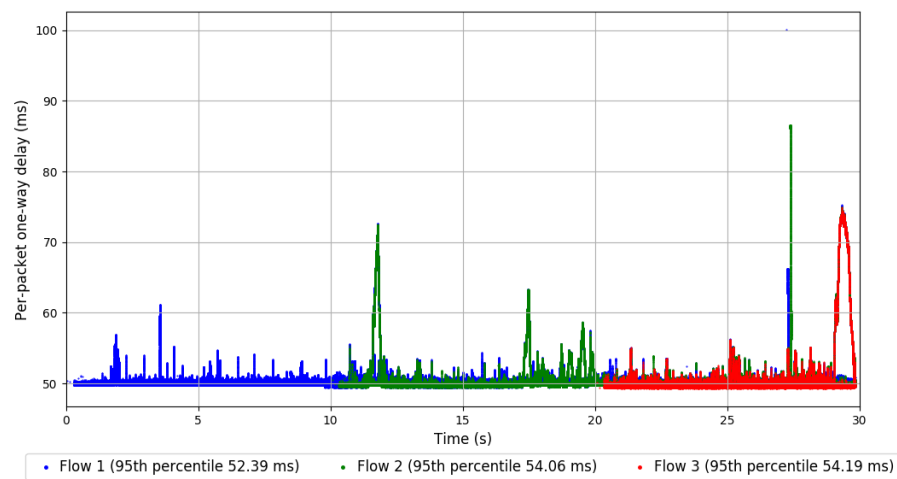
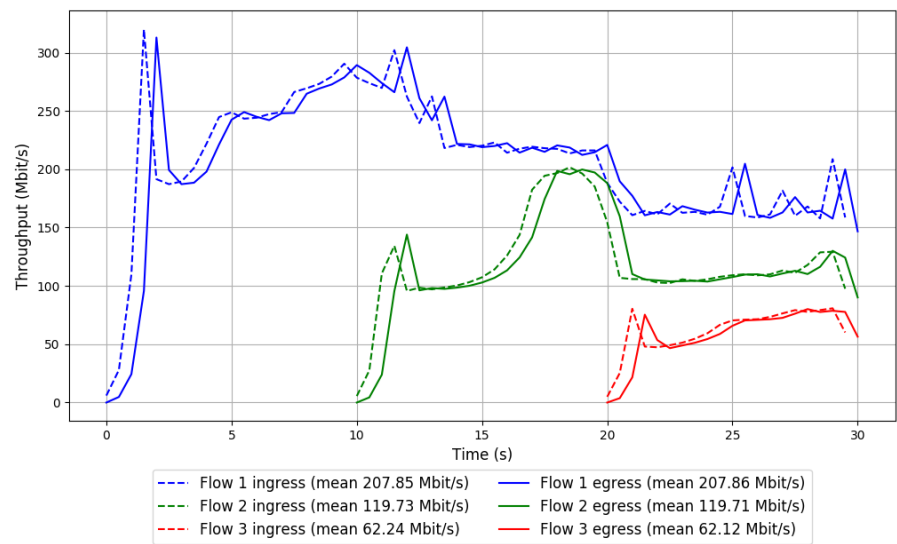


Run 9: Statistics of PCC-Expr

Start at: 2018-06-07 19:48:20
End at: 2018-06-07 19:48:50
Local clock offset: -0.223 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-07 21:47:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 307.66 Mbit/s
95th percentile per-packet one-way delay: 52.919 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 207.86 Mbit/s
95th percentile per-packet one-way delay: 52.393 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 119.71 Mbit/s
95th percentile per-packet one-way delay: 54.056 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 62.12 Mbit/s
95th percentile per-packet one-way delay: 54.194 ms
Loss rate: 1.22%

Run 9: Report of PCC-Expr — Data Link

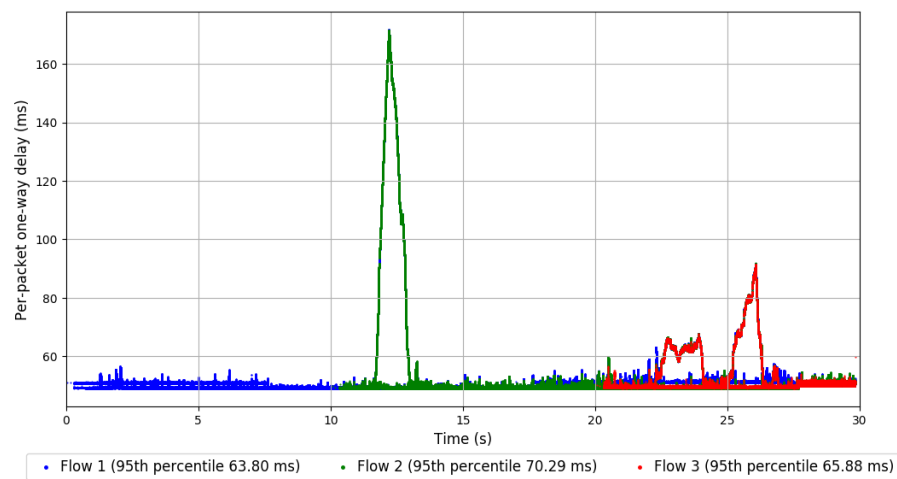
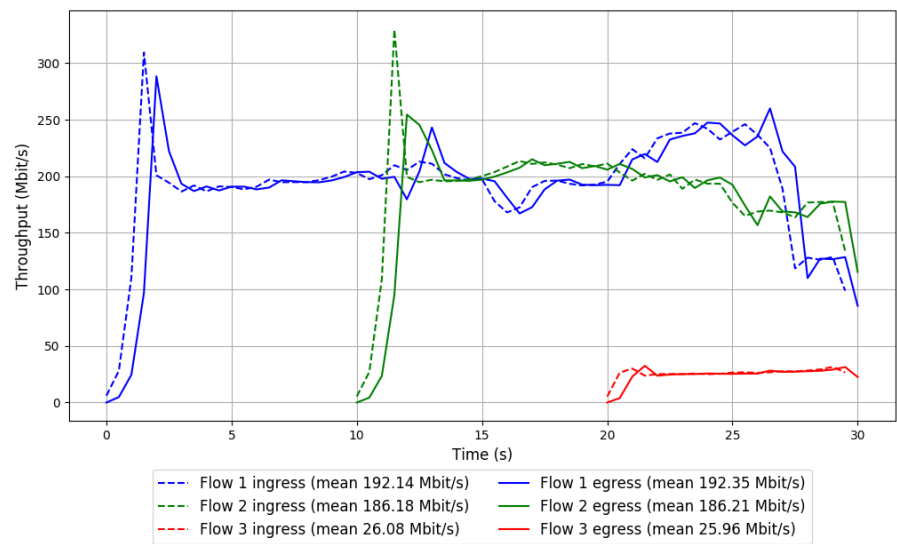


Run 10: Statistics of PCC-Expr

Start at: 2018-06-07 20:10:22
End at: 2018-06-07 20:10:52
Local clock offset: 0.3 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.37 Mbit/s
95th percentile per-packet one-way delay: 65.616 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 192.35 Mbit/s
95th percentile per-packet one-way delay: 63.797 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 186.21 Mbit/s
95th percentile per-packet one-way delay: 70.288 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 25.96 Mbit/s
95th percentile per-packet one-way delay: 65.884 ms
Loss rate: 1.39%

Run 10: Report of PCC-Expr — Data Link

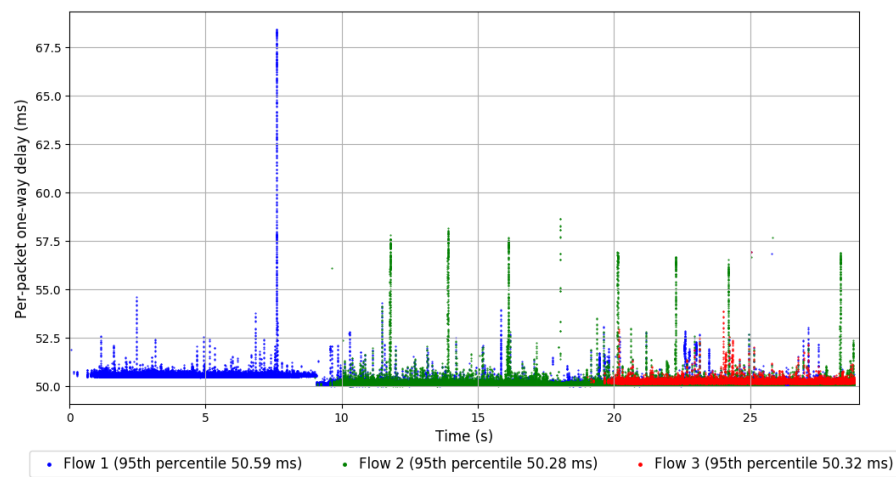
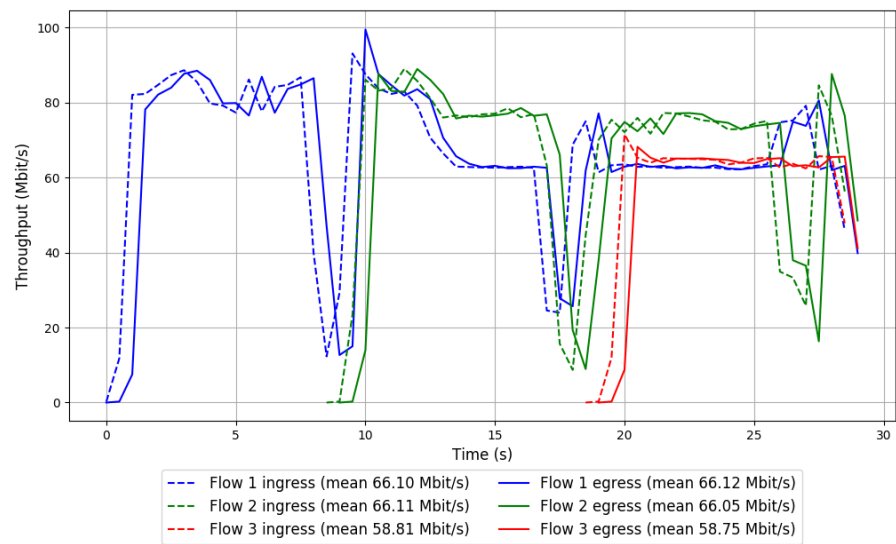


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-07 16:39:09
End at: 2018-06-07 16:39:39
Local clock offset: 0.315 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 131.58 Mbit/s
95th percentile per-packet one-way delay: 50.561 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 66.12 Mbit/s
95th percentile per-packet one-way delay: 50.591 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 66.05 Mbit/s
95th percentile per-packet one-way delay: 50.276 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 58.75 Mbit/s
95th percentile per-packet one-way delay: 50.317 ms
Loss rate: 1.12%

Run 1: Report of QUIC Cubic — Data Link

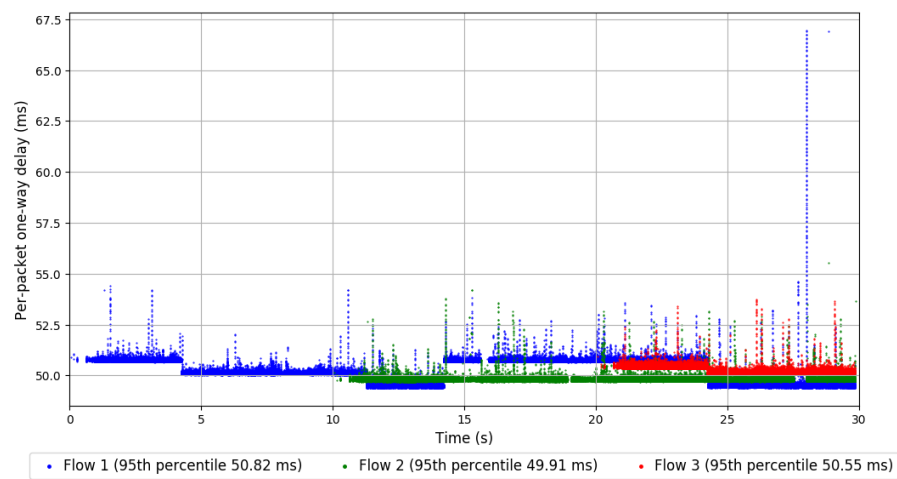
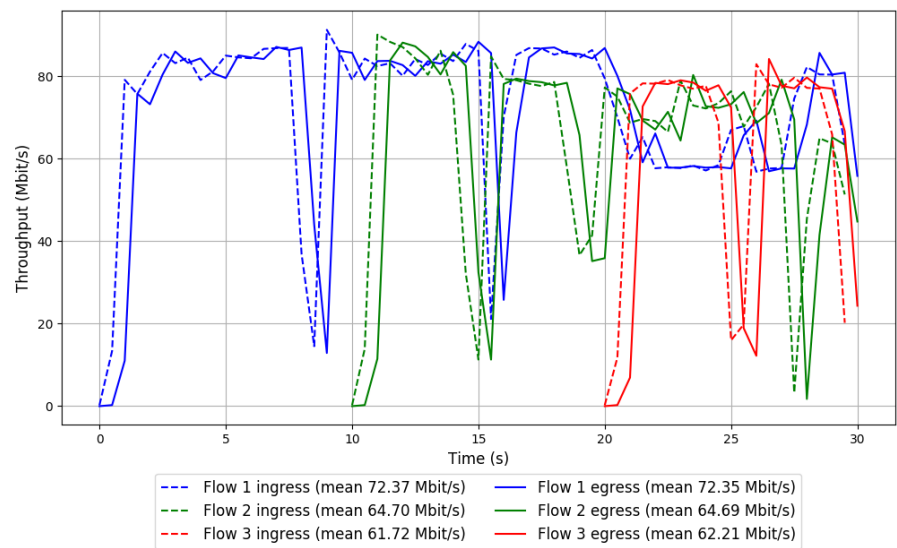


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-07 17:01:15
End at: 2018-06-07 17:01:45
Local clock offset: -0.043 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.70 Mbit/s
95th percentile per-packet one-way delay: 50.791 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 50.816 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 64.69 Mbit/s
95th percentile per-packet one-way delay: 49.915 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 50.552 ms
Loss rate: 0.24%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-07 17:23:26

End at: 2018-06-07 17:23:56

Local clock offset: -0.397 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-07 21:49:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 123.72 Mbit/s

95th percentile per-packet one-way delay: 50.282 ms

Loss rate: 0.43%

-- Flow 1:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 50.310 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 54.14 Mbit/s

95th percentile per-packet one-way delay: 50.237 ms

Loss rate: 0.10%

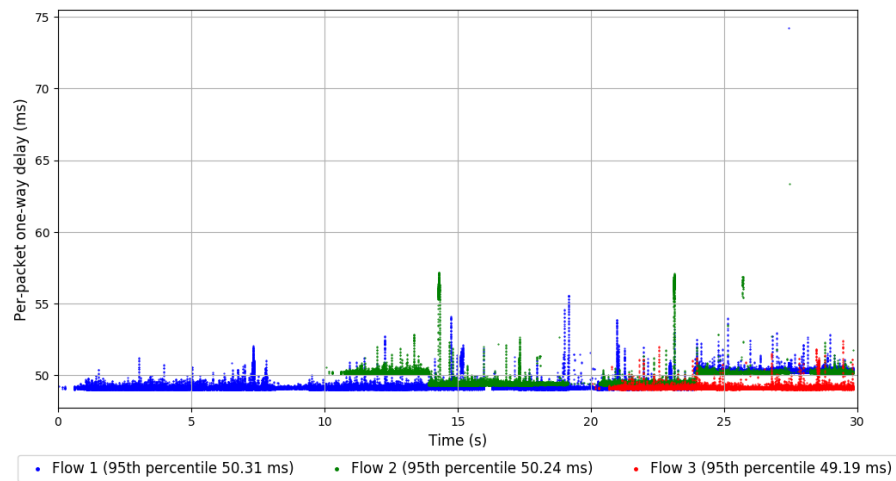
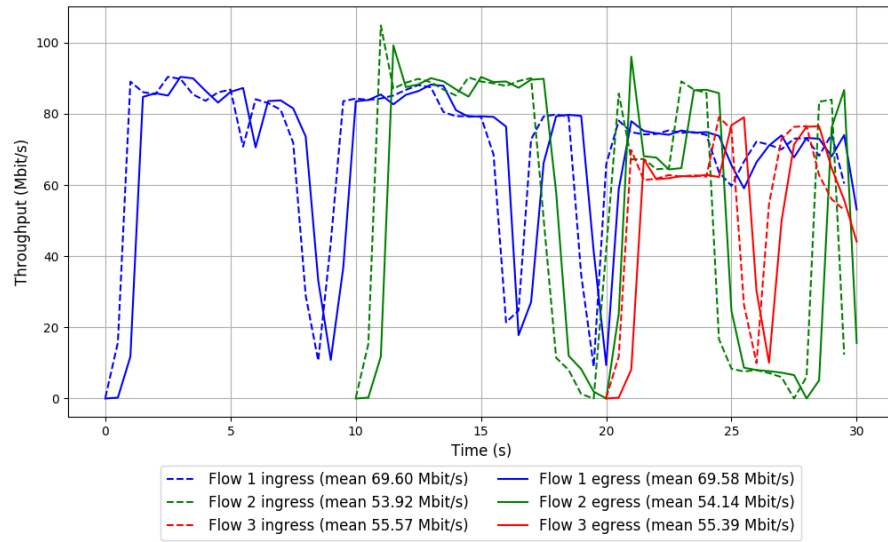
-- Flow 3:

Average throughput: 55.39 Mbit/s

95th percentile per-packet one-way delay: 49.193 ms

Loss rate: 1.32%

Run 3: Report of QUIC Cubic — Data Link

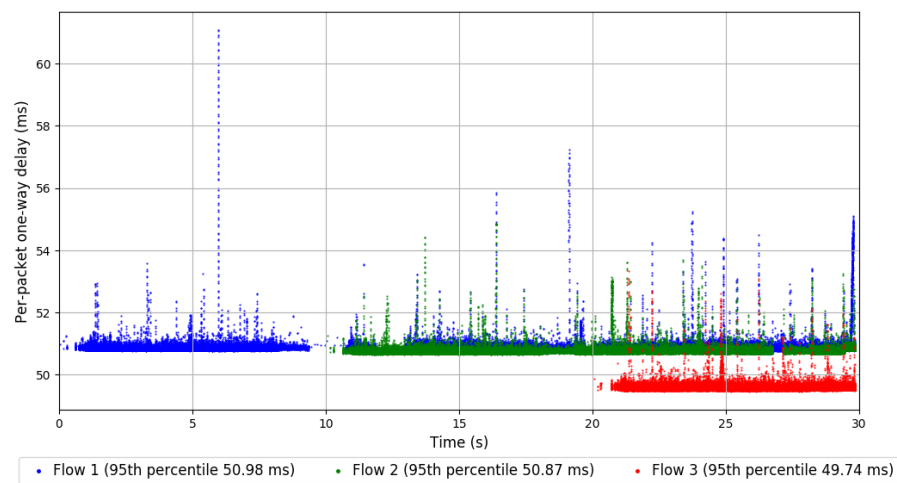
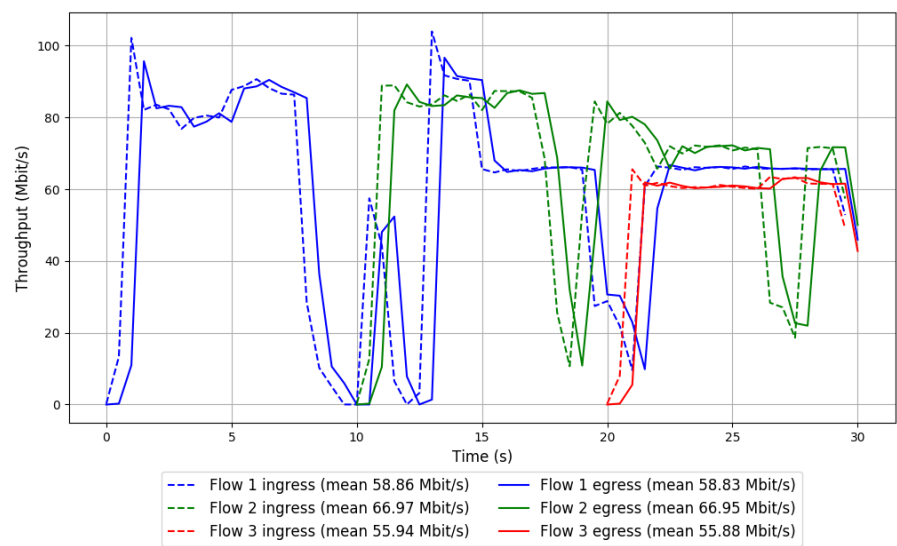


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-07 17:45:40
End at: 2018-06-07 17:46:10
Local clock offset: 0.012 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 121.61 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 58.83 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 66.95 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 55.88 Mbit/s
95th percentile per-packet one-way delay: 49.736 ms
Loss rate: 1.12%

Run 4: Report of QUIC Cubic — Data Link

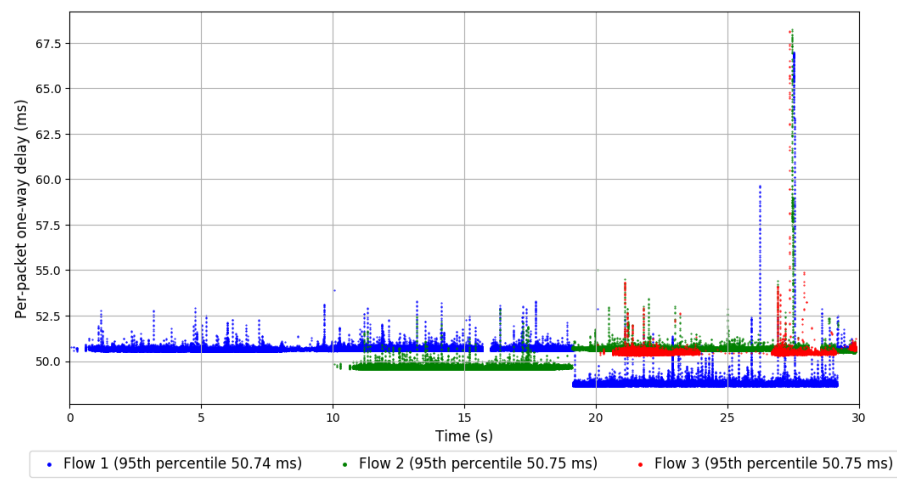
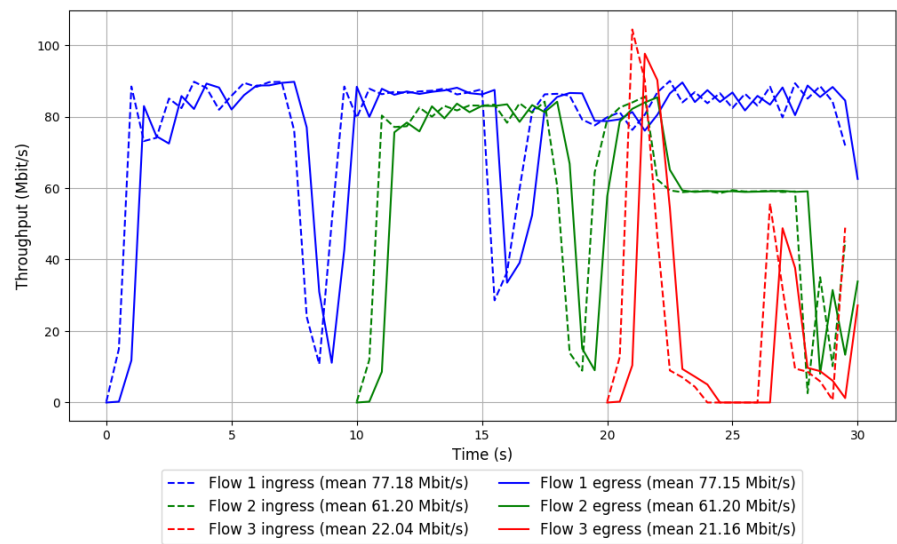


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-07 18:07:50
End at: 2018-06-07 18:08:20
Local clock offset: 0.115 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 124.74 Mbit/s
95th percentile per-packet one-way delay: 50.743 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 50.740 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 61.20 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 21.16 Mbit/s
95th percentile per-packet one-way delay: 50.747 ms
Loss rate: 4.99%

Run 5: Report of QUIC Cubic — Data Link

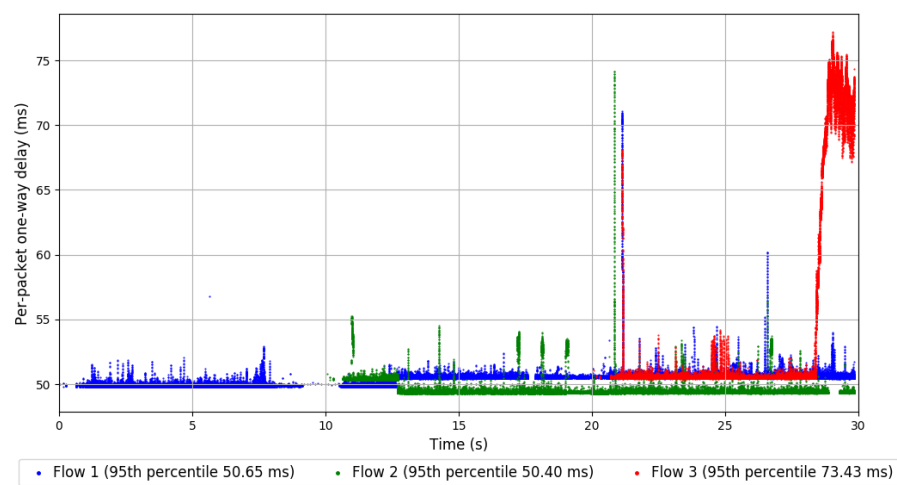
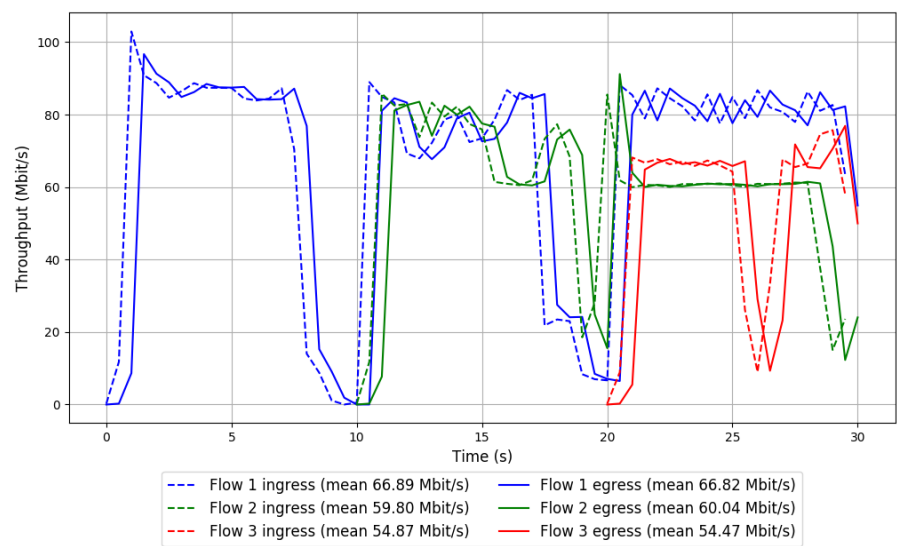


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-07 18:29:57
End at: 2018-06-07 18:30:27
Local clock offset: -0.159 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 124.58 Mbit/s
95th percentile per-packet one-way delay: 50.821 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 66.82 Mbit/s
95th percentile per-packet one-way delay: 50.654 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 60.04 Mbit/s
95th percentile per-packet one-way delay: 50.401 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 54.47 Mbit/s
95th percentile per-packet one-way delay: 73.432 ms
Loss rate: 1.74%

Run 6: Report of QUIC Cubic — Data Link

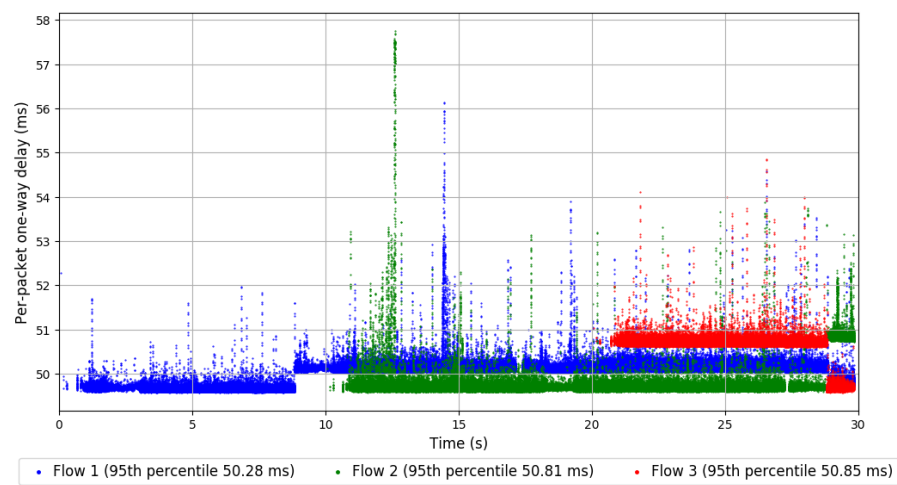
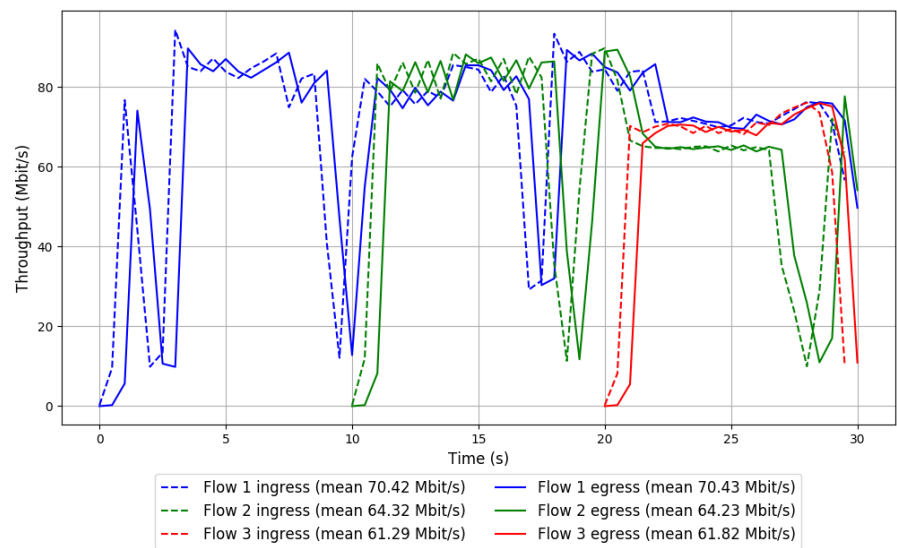


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-07 18:52:21
End at: 2018-06-07 18:52:51
Local clock offset: 0.235 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 133.39 Mbit/s
95th percentile per-packet one-way delay: 50.771 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 70.43 Mbit/s
95th percentile per-packet one-way delay: 50.276 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 64.23 Mbit/s
95th percentile per-packet one-way delay: 50.807 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 61.82 Mbit/s
95th percentile per-packet one-way delay: 50.851 ms
Loss rate: 0.17%

Run 7: Report of QUIC Cubic — Data Link

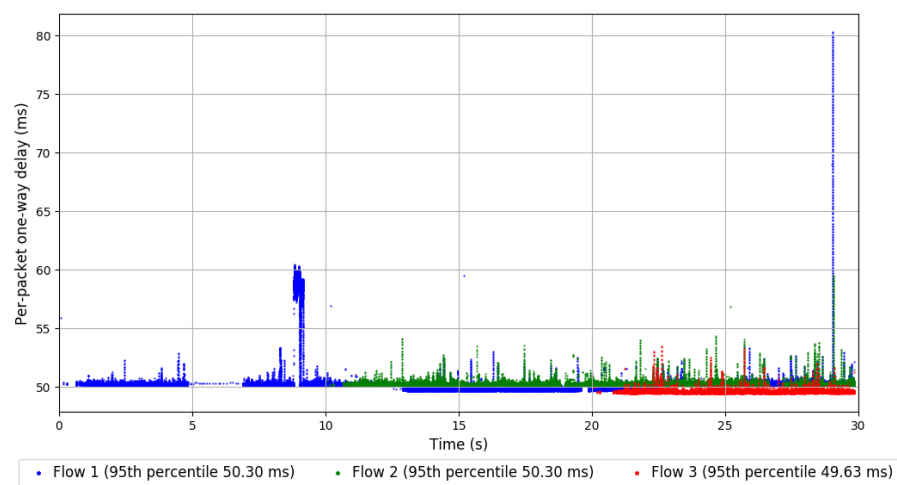
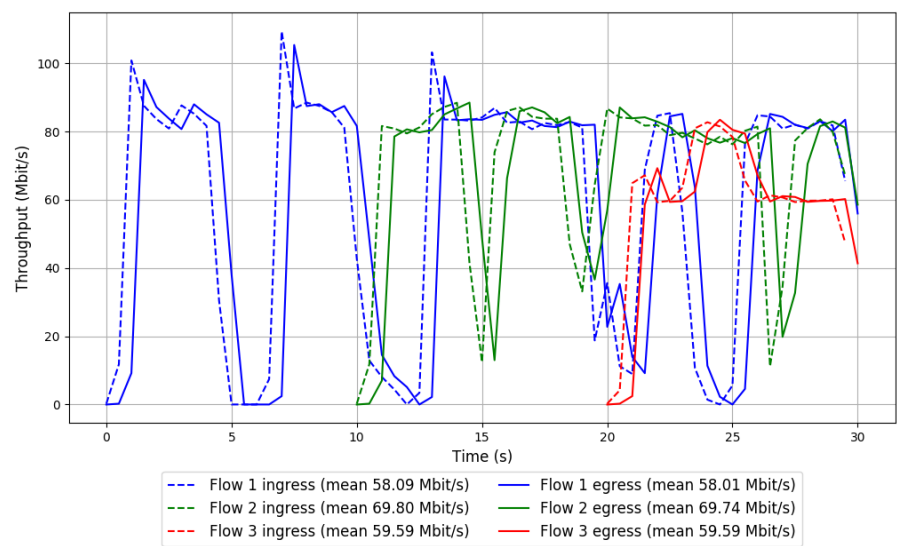


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-07 19:14:27
End at: 2018-06-07 19:14:57
Local clock offset: 0.305 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 123.84 Mbit/s
95th percentile per-packet one-way delay: 50.284 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 50.303 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 69.74 Mbit/s
95th percentile per-packet one-way delay: 50.298 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 59.59 Mbit/s
95th percentile per-packet one-way delay: 49.631 ms
Loss rate: 1.02%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-07 19:36:40

End at: 2018-06-07 19:37:10

Local clock offset: 0.684 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-07 21:49:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.59 Mbit/s

95th percentile per-packet one-way delay: 51.193 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 49.250 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 64.85 Mbit/s

95th percentile per-packet one-way delay: 51.264 ms

Loss rate: 0.29%

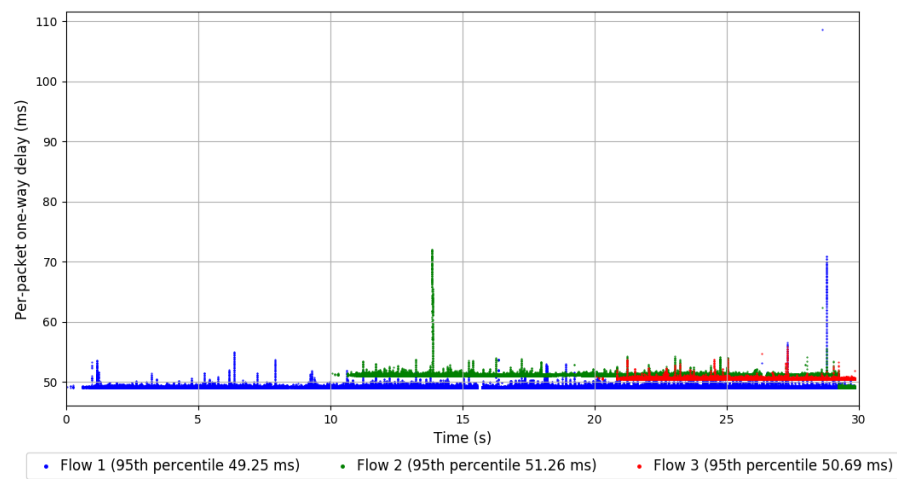
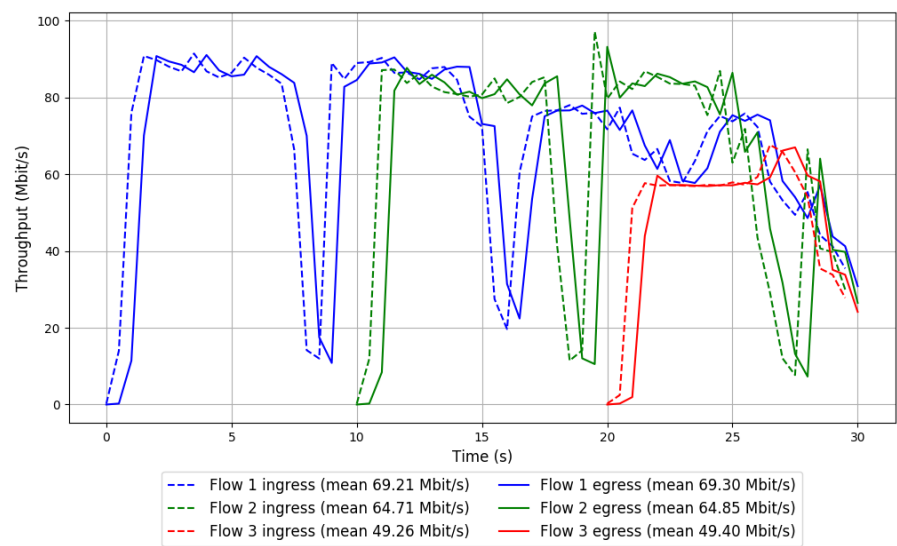
-- Flow 3:

Average throughput: 49.40 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 0.73%

Run 9: Report of QUIC Cubic — Data Link

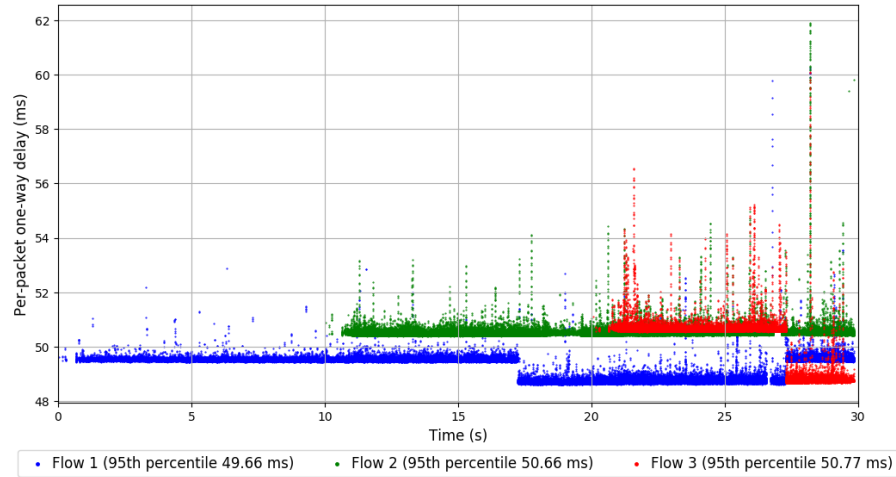
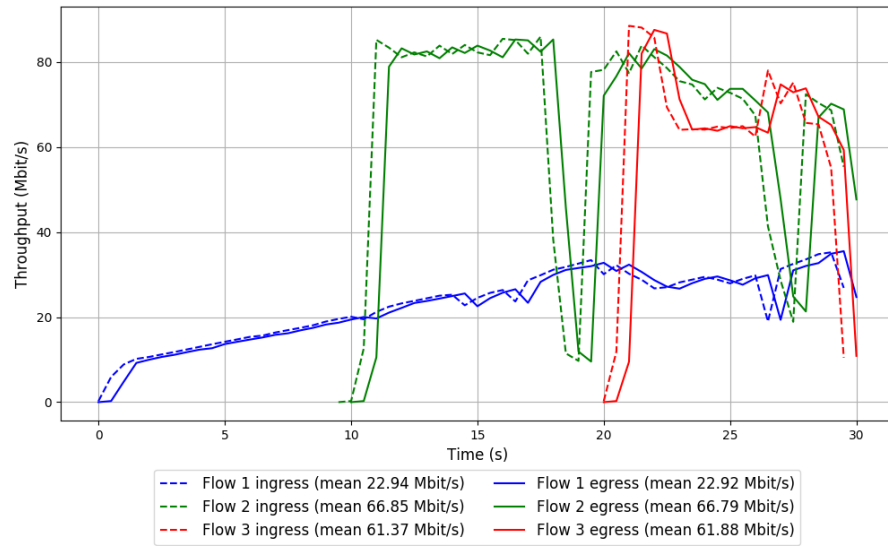


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-07 19:58:42
End at: 2018-06-07 19:59:12
Local clock offset: 0.001 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.62 Mbit/s
95th percentile per-packet one-way delay: 50.703 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 22.92 Mbit/s
95th percentile per-packet one-way delay: 49.664 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 66.79 Mbit/s
95th percentile per-packet one-way delay: 50.661 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 61.88 Mbit/s
95th percentile per-packet one-way delay: 50.774 ms
Loss rate: 0.16%

Run 10: Report of QUIC Cubic — Data Link

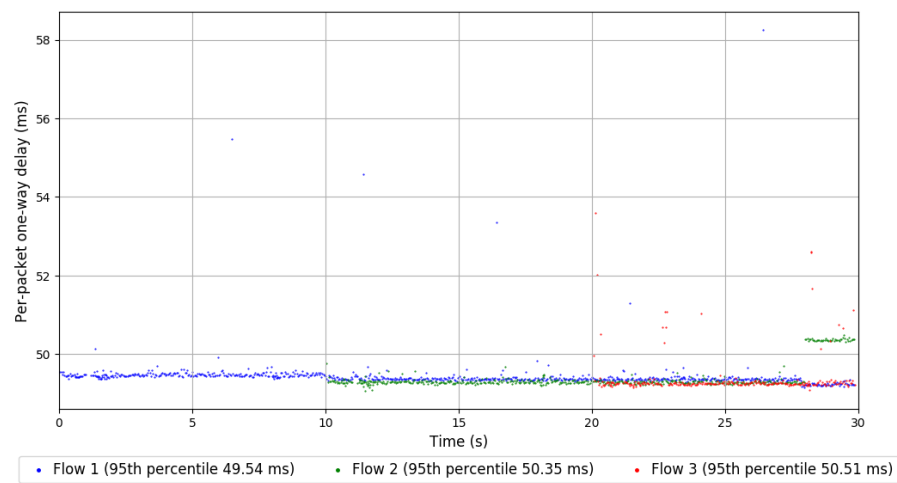
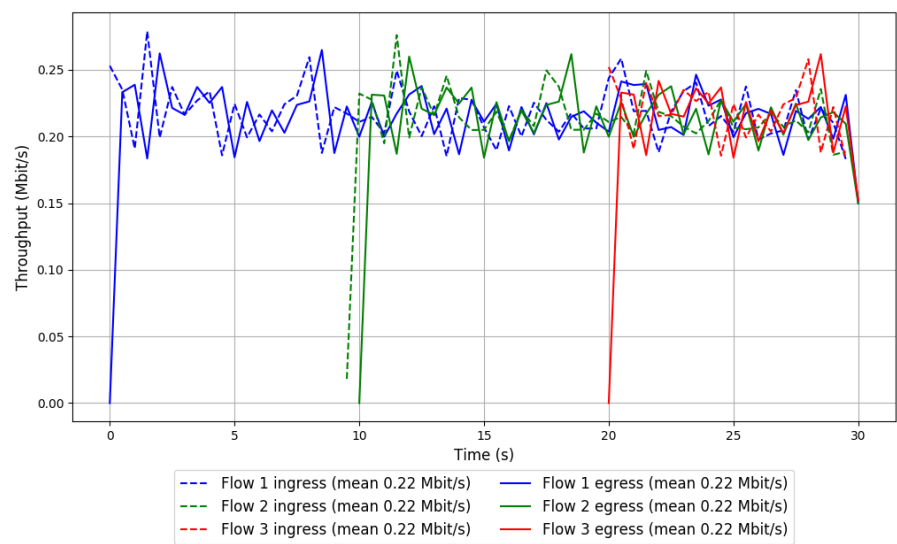


```
Run 1: Statistics of SReAM

Start at: 2018-06-07 16:48:12
End at: 2018-06-07 16:48:42
Local clock offset: -0.454 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-06-07 21:49:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 49.678 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.542 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.351 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.509 ms
Loss rate: 1.09%
```

Run 1: Report of SReAM — Data Link

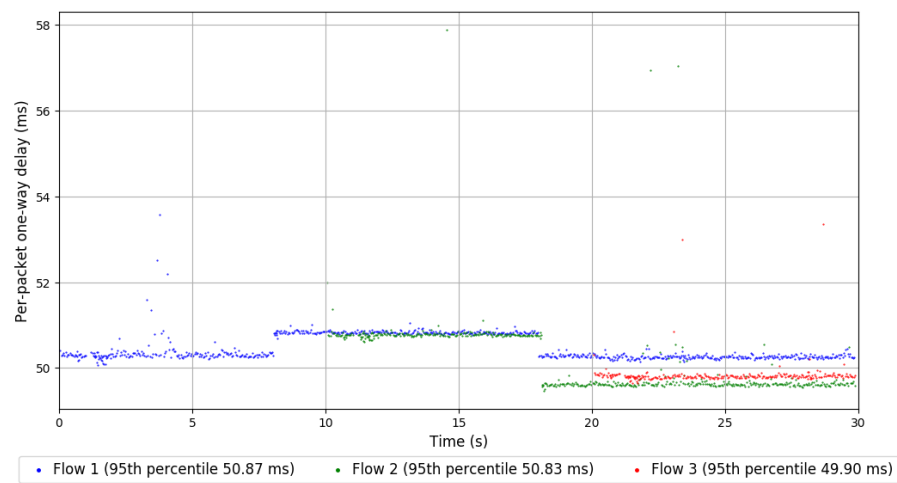
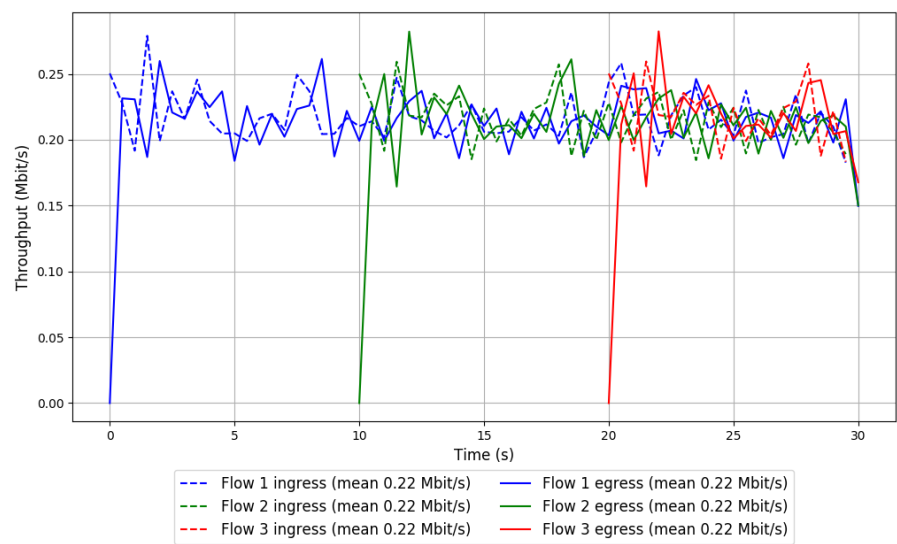


Run 2: Statistics of SReAM

Start at: 2018-06-07 17:10:22
End at: 2018-06-07 17:10:52
Local clock offset: 0.005 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.852 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.825 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.896 ms
Loss rate: 1.09%

Run 2: Report of SReAM — Data Link

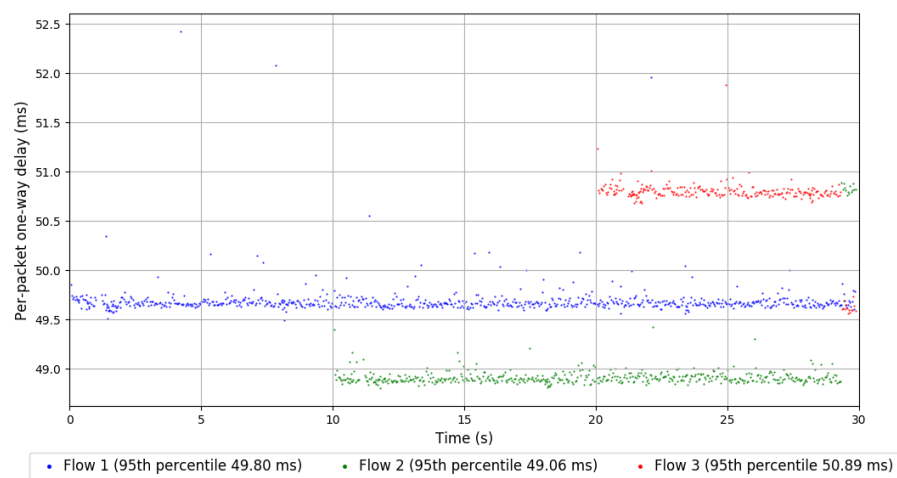
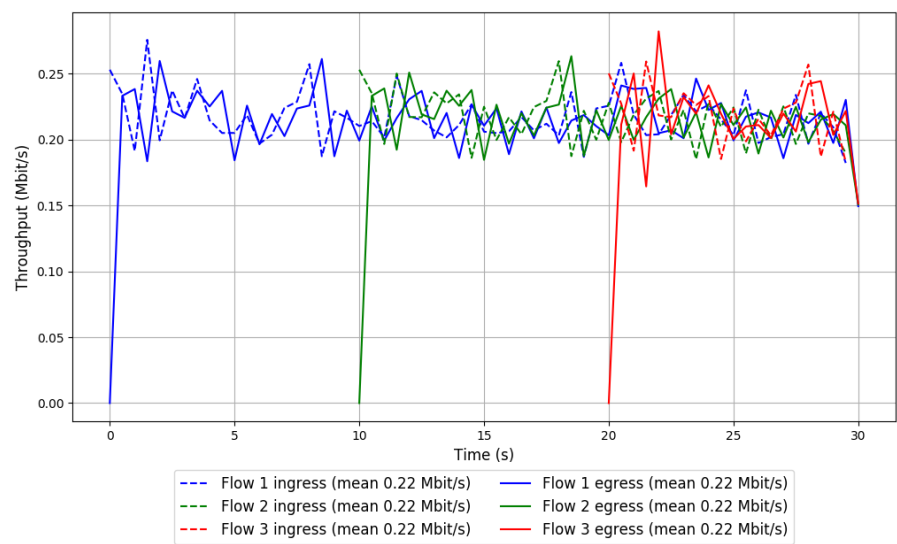


Run 3: Statistics of SCReAM

Start at: 2018-06-07 17:32:40
End at: 2018-06-07 17:33:10
Local clock offset: 0.009 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.821 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.800 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.058 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.888 ms
Loss rate: 1.09%

Run 3: Report of SReAM — Data Link

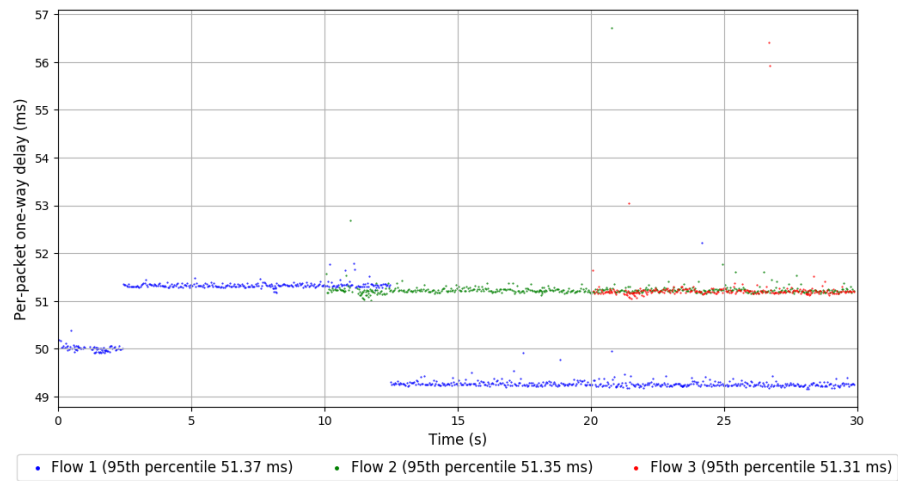
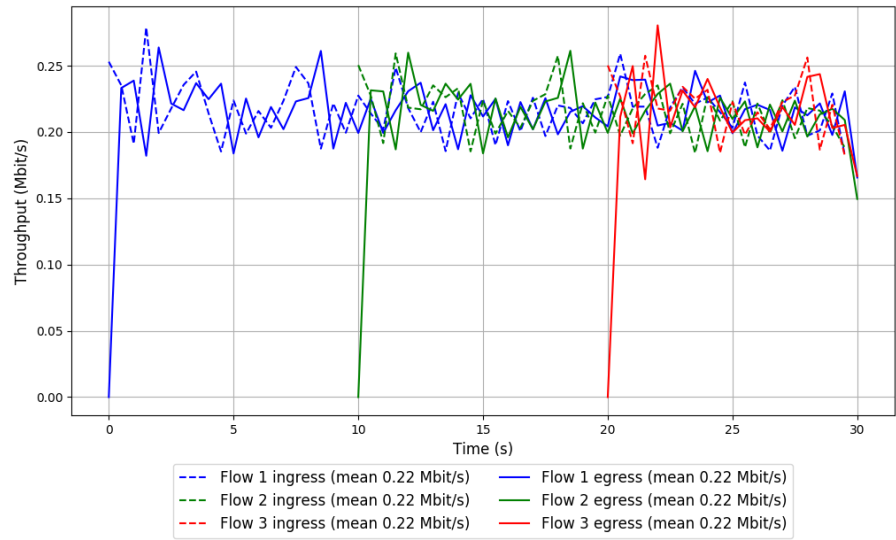


Run 4: Statistics of SReAM

Start at: 2018-06-07 17:54:47
End at: 2018-06-07 17:55:17
Local clock offset: 0.415 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.357 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.366 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.346 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.306 ms
Loss rate: 1.09%

Run 4: Report of SReAM — Data Link

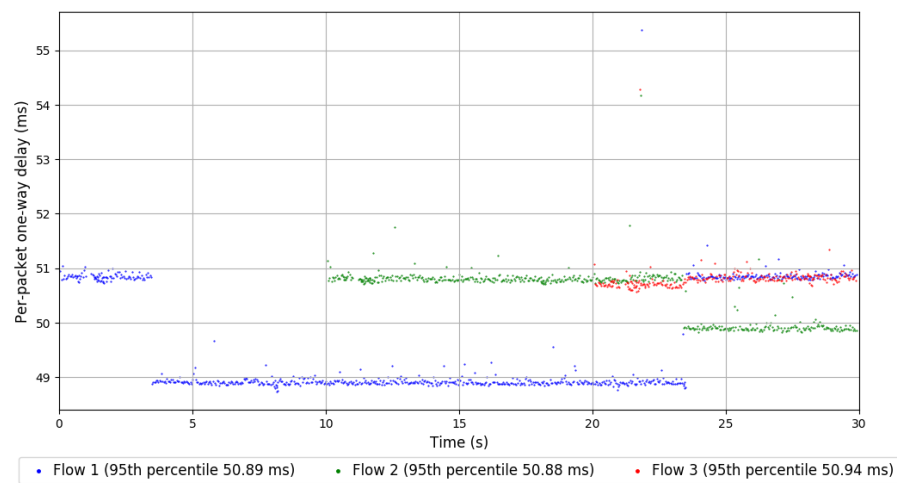
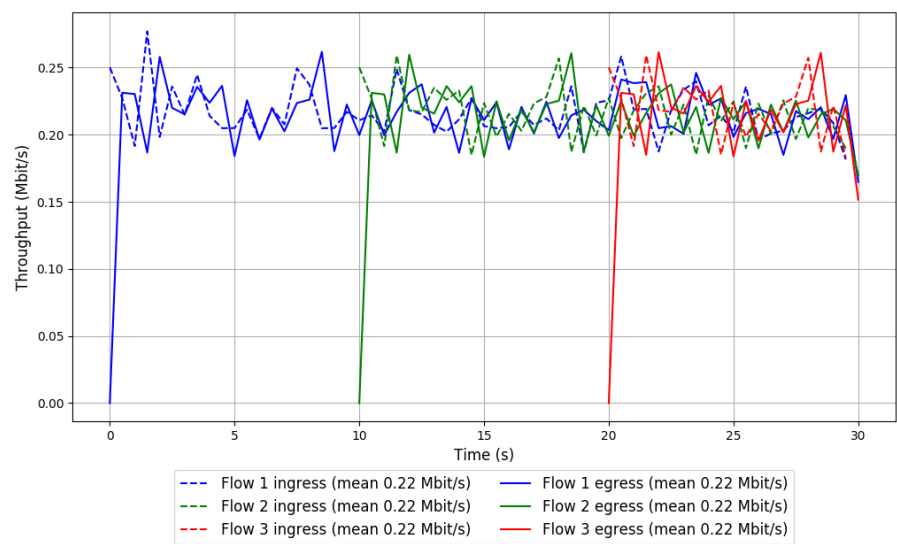


Run 5: Statistics of SReAM

Start at: 2018-06-07 18:16:56
End at: 2018-06-07 18:17:26
Local clock offset: 0.17 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.893 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.890 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.881 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.943 ms
Loss rate: 1.09%

Run 5: Report of SReAM — Data Link

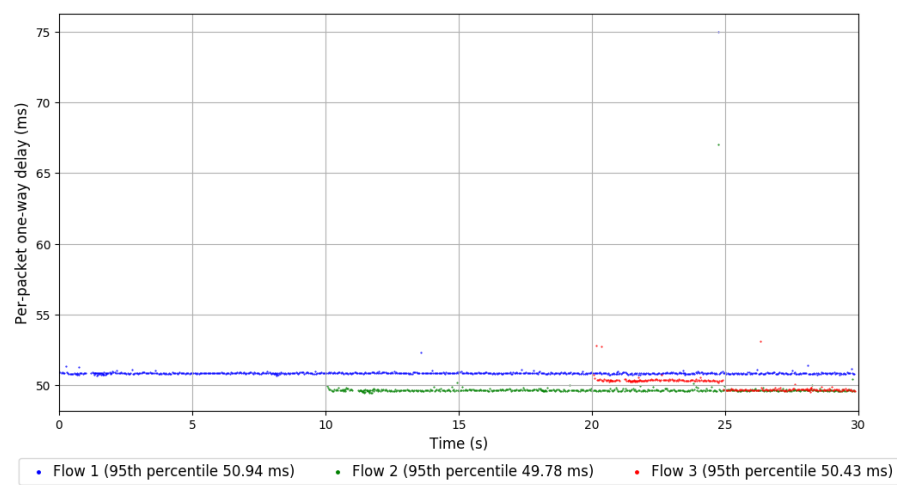
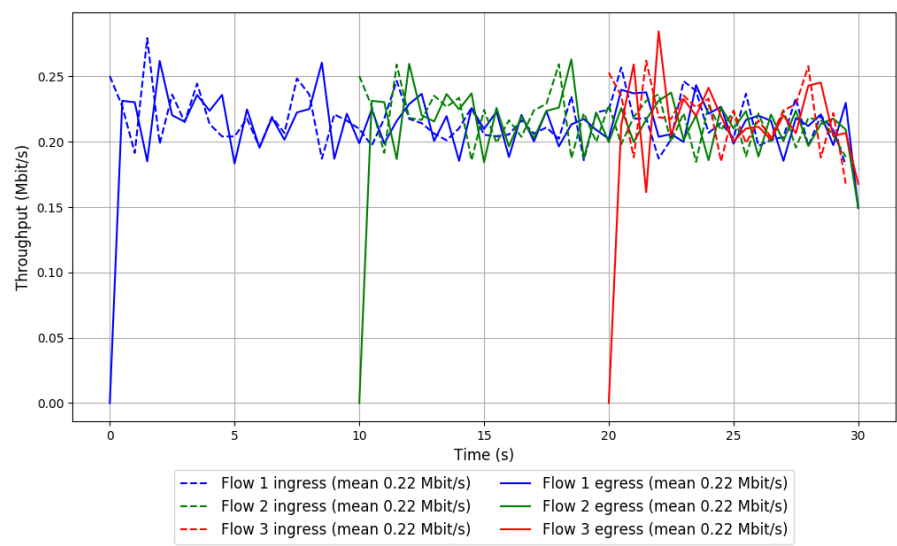


Run 6: Statistics of SReAM

Start at: 2018-06-07 18:39:05
End at: 2018-06-07 18:39:35
Local clock offset: 0.207 ms
Remote clock offset: -0.082 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.913 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.784 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.427 ms
Loss rate: 0.74%

Run 6: Report of SReAM — Data Link

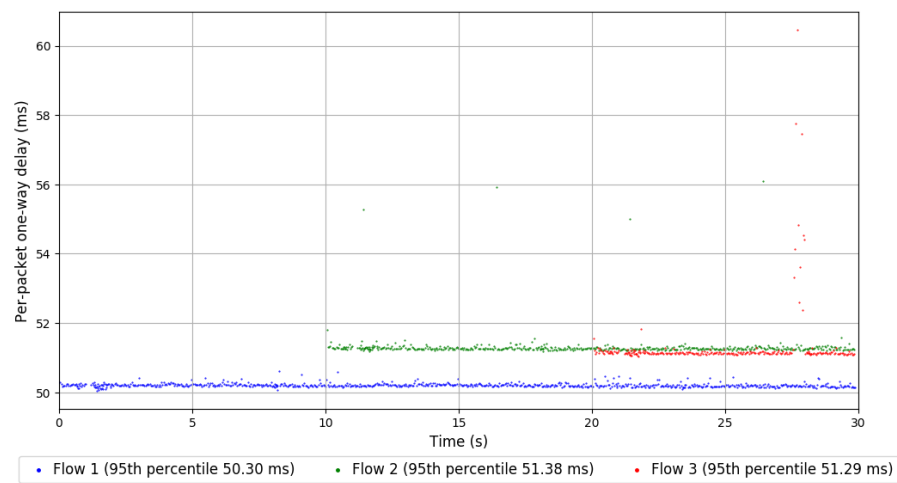
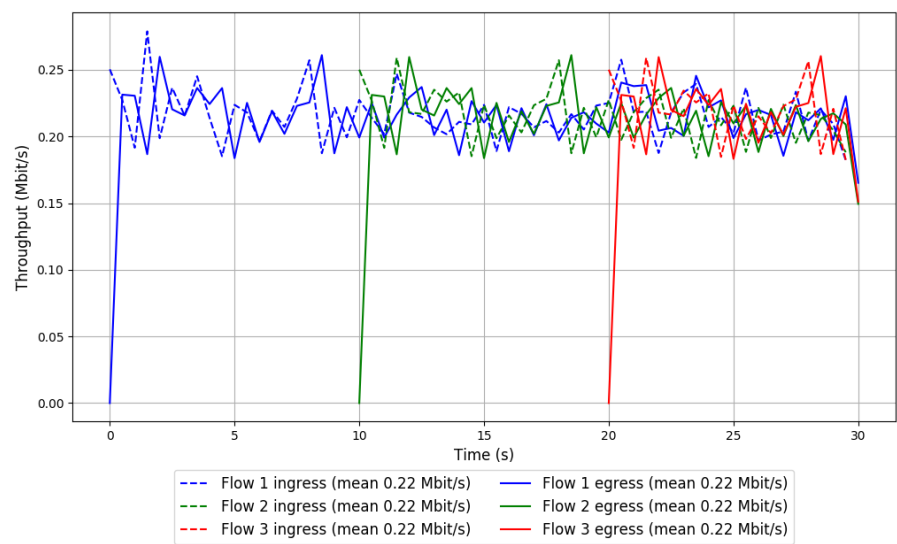


Run 7: Statistics of SReAM

Start at: 2018-06-07 19:01:26
End at: 2018-06-07 19:01:56
Local clock offset: 0.641 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-07 21:49:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.327 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.296 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.379 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.291 ms
Loss rate: 1.09%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-06-07 19:23:36

End at: 2018-06-07 19:24:06

Local clock offset: 0.308 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-07 21:49:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.395 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.405 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.400 ms

Loss rate: 0.61%

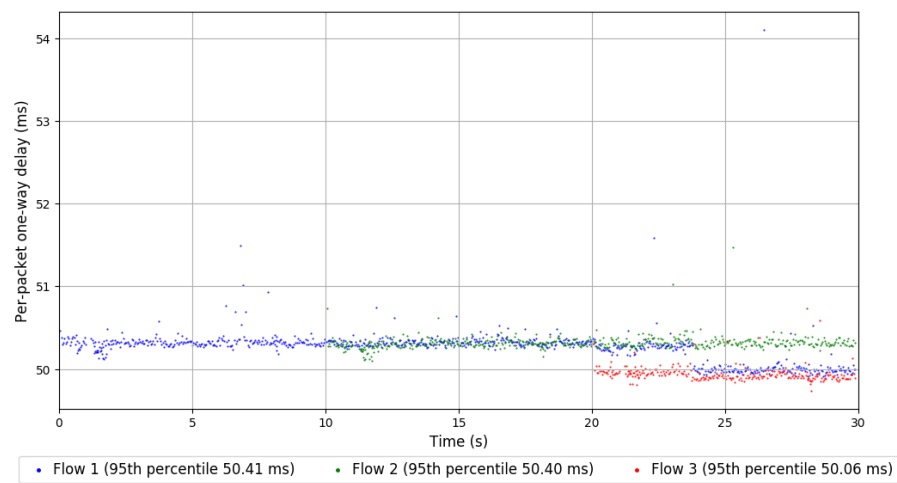
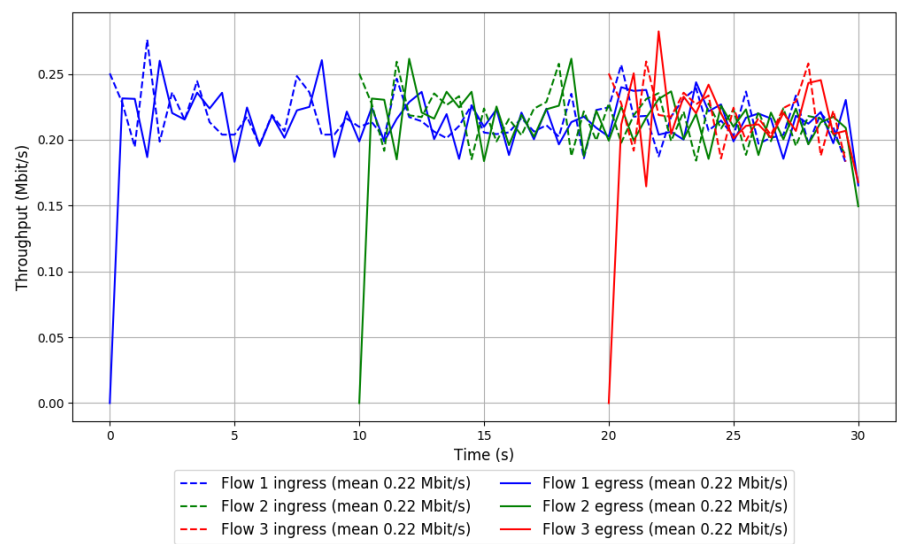
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.056 ms

Loss rate: 1.09%

Run 8: Report of SReAM — Data Link

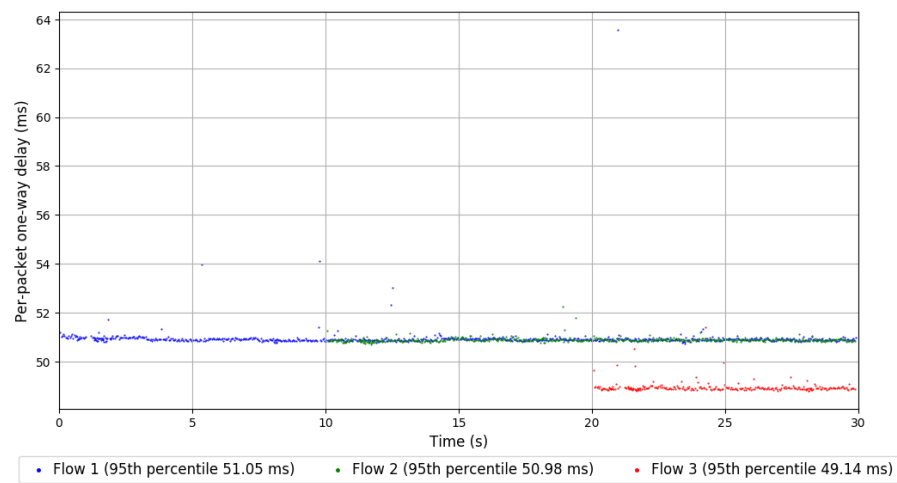
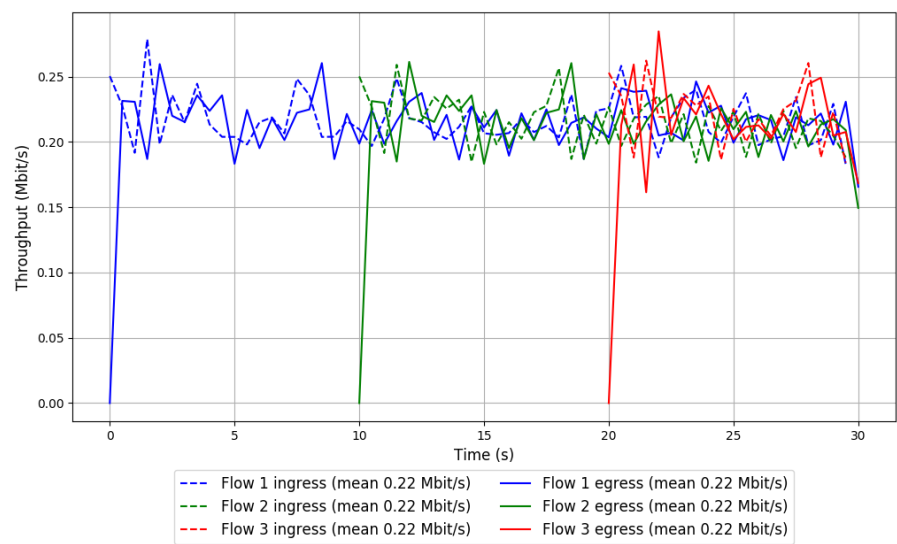


Run 9: Statistics of SReAM

Start at: 2018-06-07 19:45:47
End at: 2018-06-07 19:46:17
Local clock offset: 0.22 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-07 21:49:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.017 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.049 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.981 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.139 ms
Loss rate: 1.08%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-07 20:07:49

End at: 2018-06-07 20:08:19

Local clock offset: -0.065 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-07 21:49:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 50.637 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.844 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.916 ms

Loss rate: 0.61%

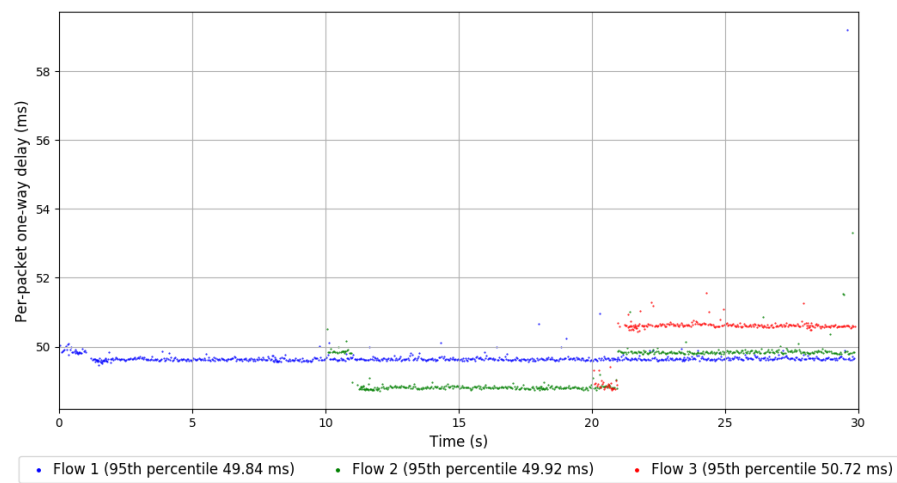
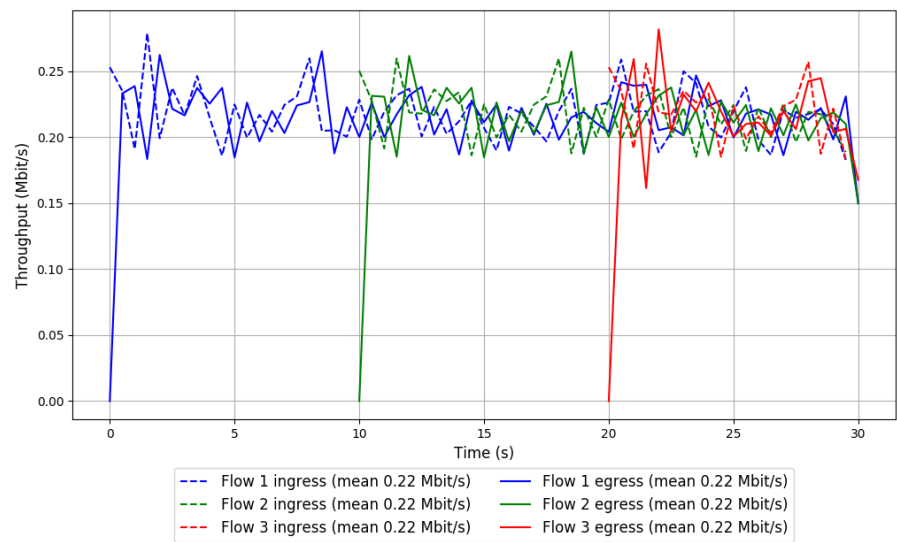
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.717 ms

Loss rate: 1.09%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-07 16:40:24

End at: 2018-06-07 16:40:54

Local clock offset: -0.061 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-07 21:49:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.93 Mbit/s

95th percentile per-packet one-way delay: 50.843 ms

Loss rate: 0.41%

-- Flow 1:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 50.802 ms

Loss rate: 0.17%

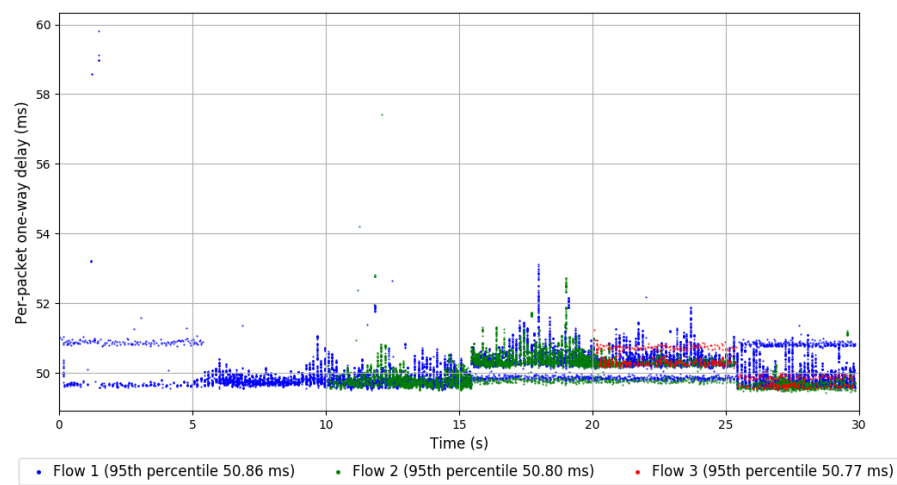
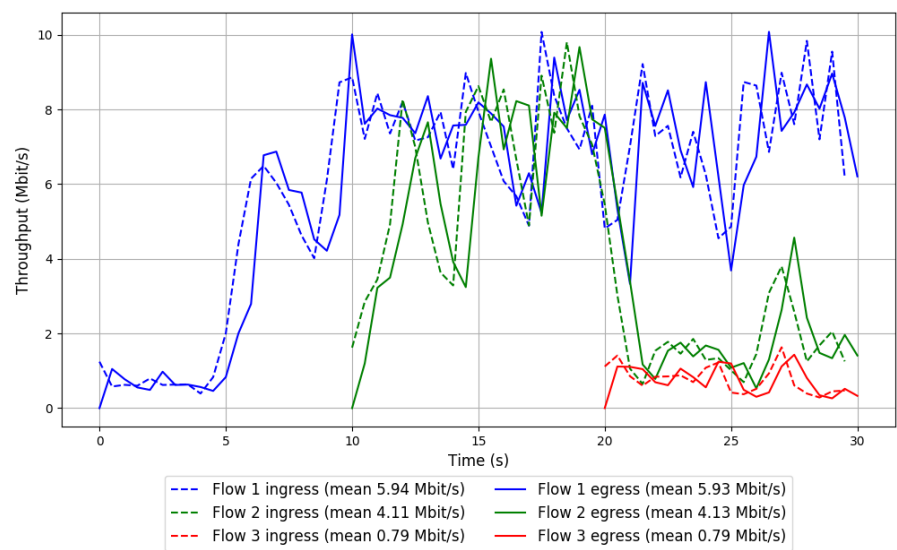
-- Flow 3:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.91%

Run 1: Report of Sprout — Data Link

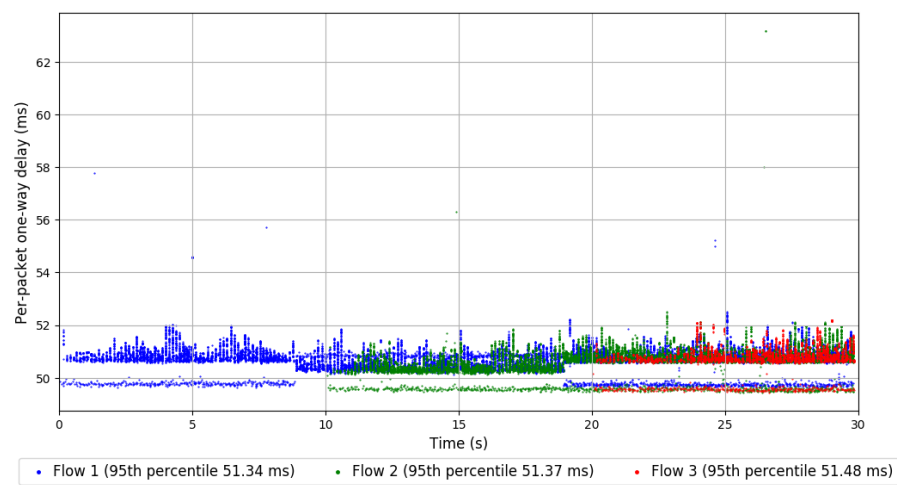
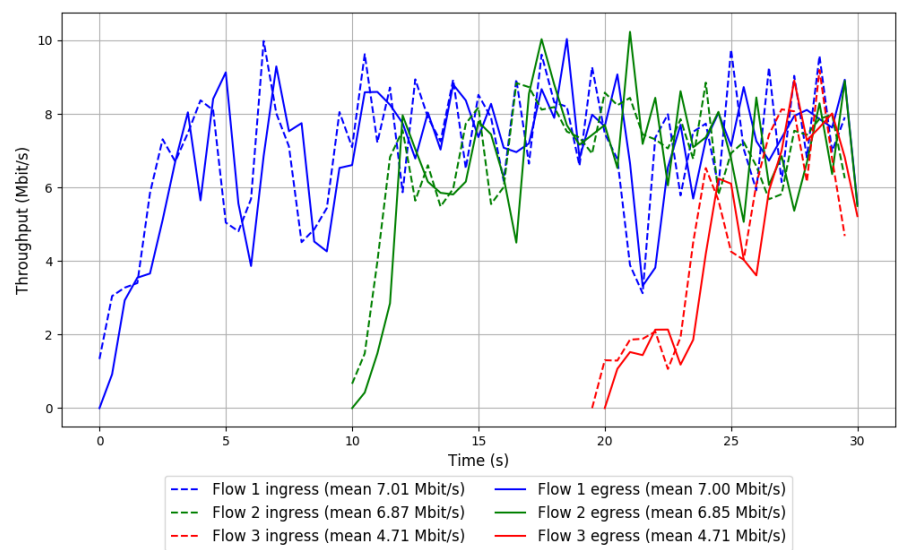


Run 2: Statistics of Sprout

Start at: 2018-06-07 17:02:31
End at: 2018-06-07 17:03:01
Local clock offset: 0.003 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-07 21:49:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 51.367 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 51.343 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 51.366 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 51.480 ms
Loss rate: 0.64%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-07 17:24:40

End at: 2018-06-07 17:25:10

Local clock offset: 0.018 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-07 21:49:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.42 Mbit/s

95th percentile per-packet one-way delay: 51.486 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 51.398 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 5.98 Mbit/s

95th percentile per-packet one-way delay: 51.518 ms

Loss rate: 0.90%

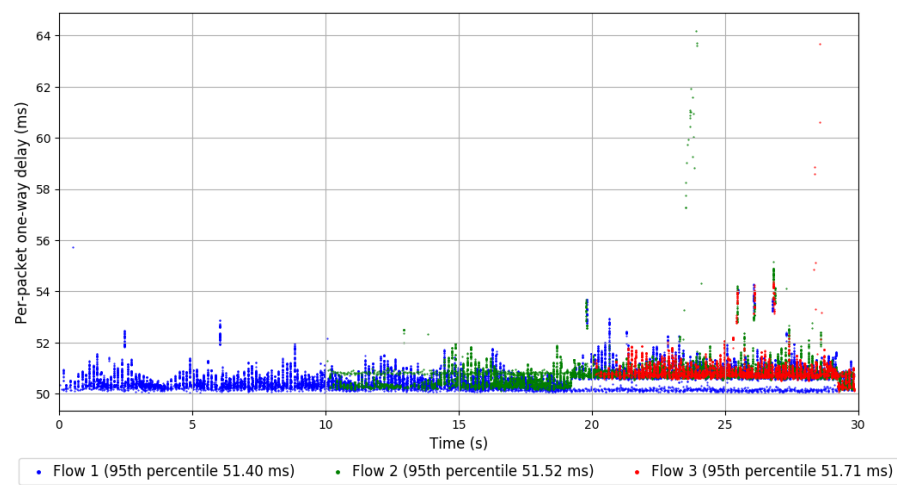
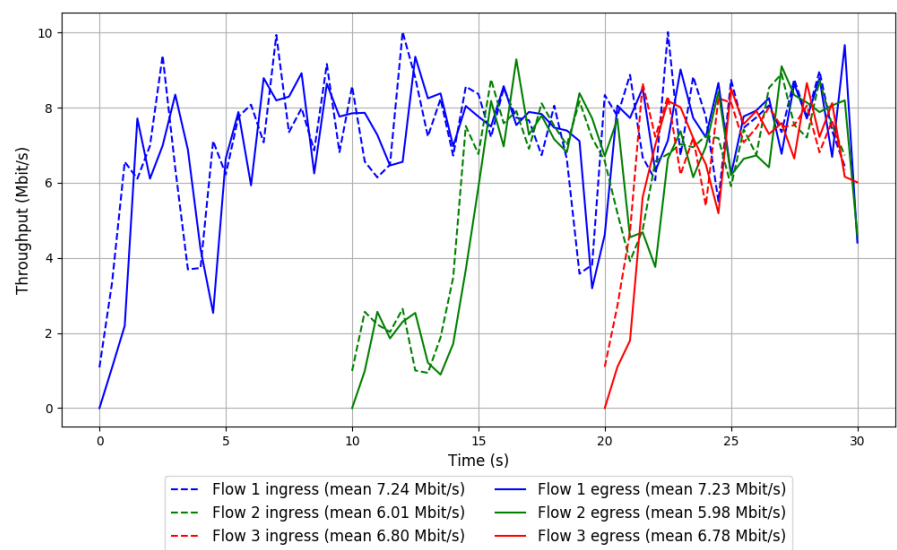
-- Flow 3:

Average throughput: 6.78 Mbit/s

95th percentile per-packet one-way delay: 51.707 ms

Loss rate: 1.51%

Run 3: Report of Sprout — Data Link

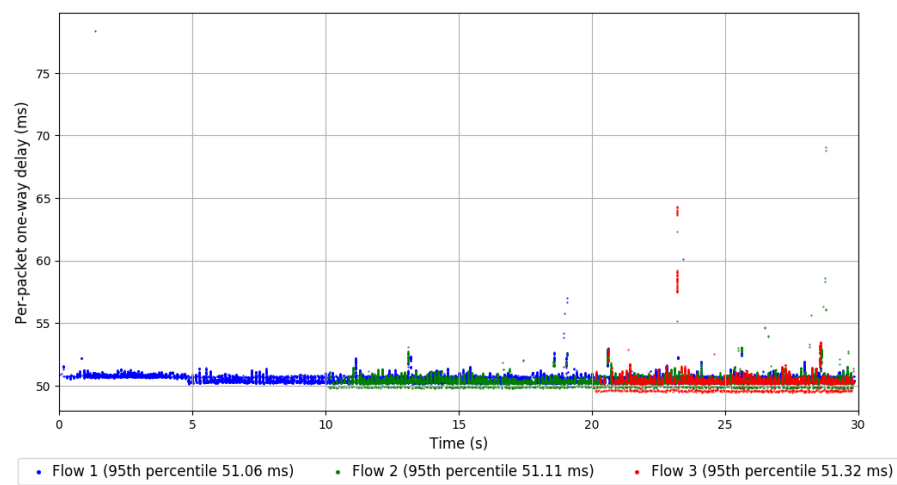
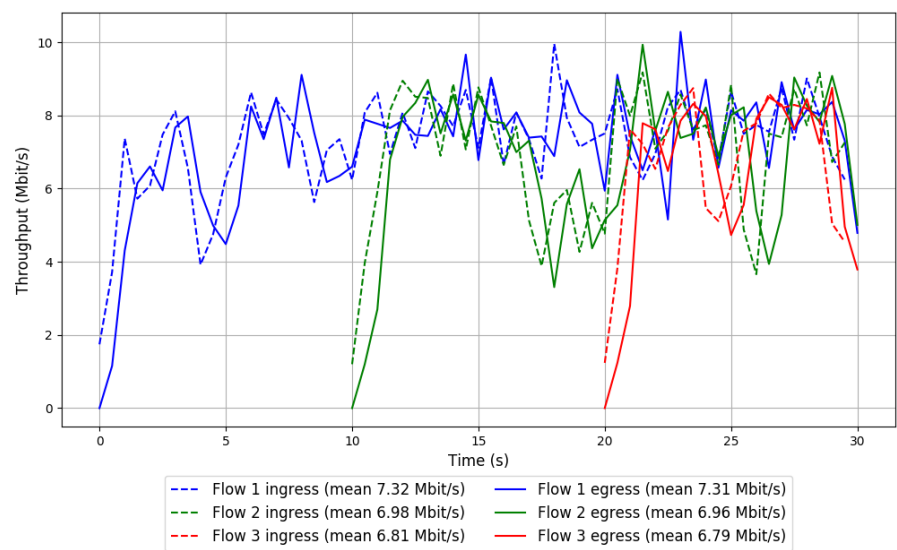


Run 4: Statistics of Sprout

Start at: 2018-06-07 17:46:55
End at: 2018-06-07 17:47:25
Local clock offset: 0.025 ms
Remote clock offset: -0.036 ms

```
# Below is generated by plot.py at 2018-06-07 21:49:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.15 Mbit/s
95th percentile per-packet one-way delay: 51.110 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 51.064 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 51.108 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 51.320 ms
Loss rate: 1.23%
```

Run 4: Report of Sprout — Data Link

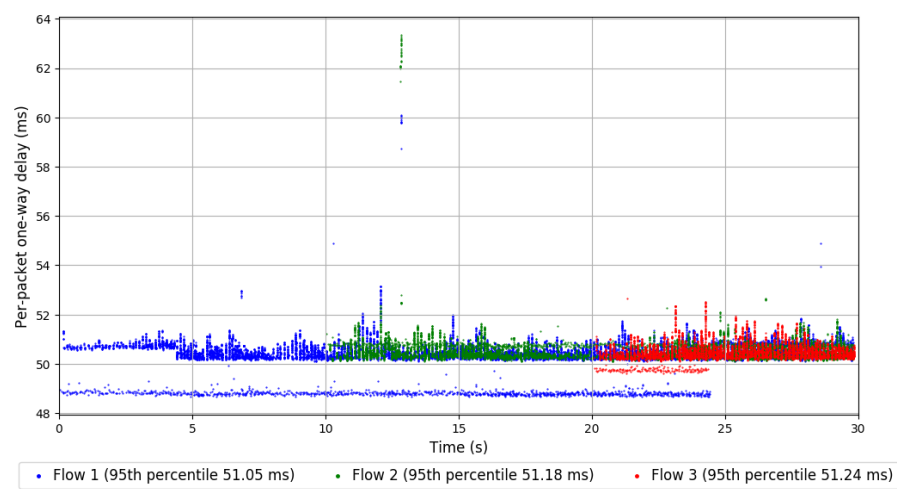
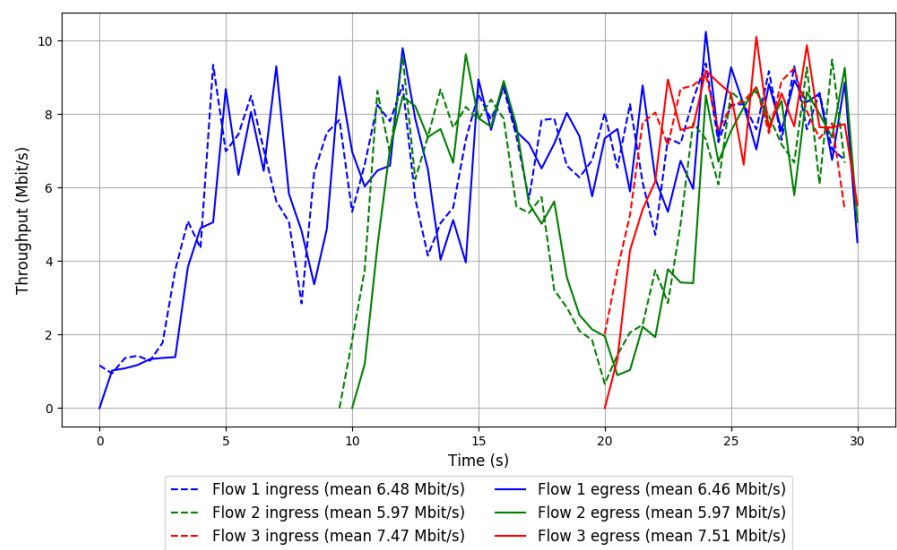


Run 5: Statistics of Sprout

Start at: 2018-06-07 18:09:05
End at: 2018-06-07 18:09:35
Local clock offset: 0.09 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-07 21:49:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 51.125 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 51.045 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 51.183 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 51.238 ms
Loss rate: 0.48%

Run 5: Report of Sprout — Data Link

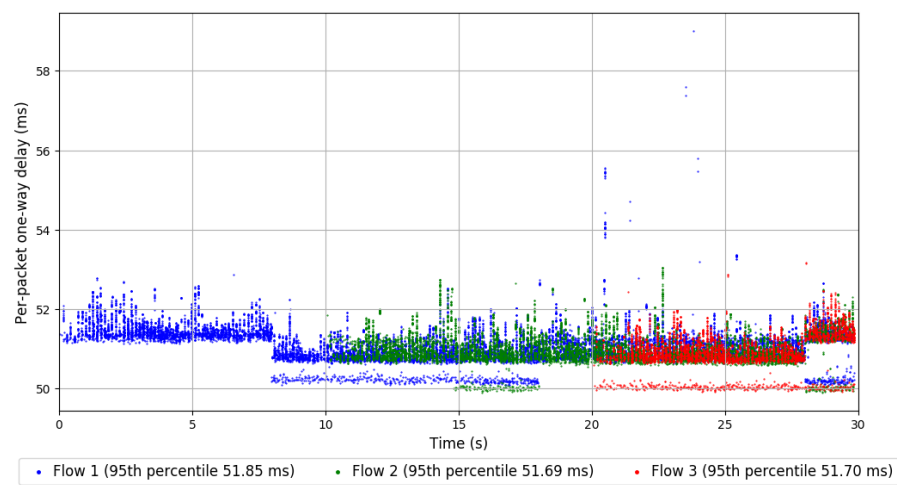
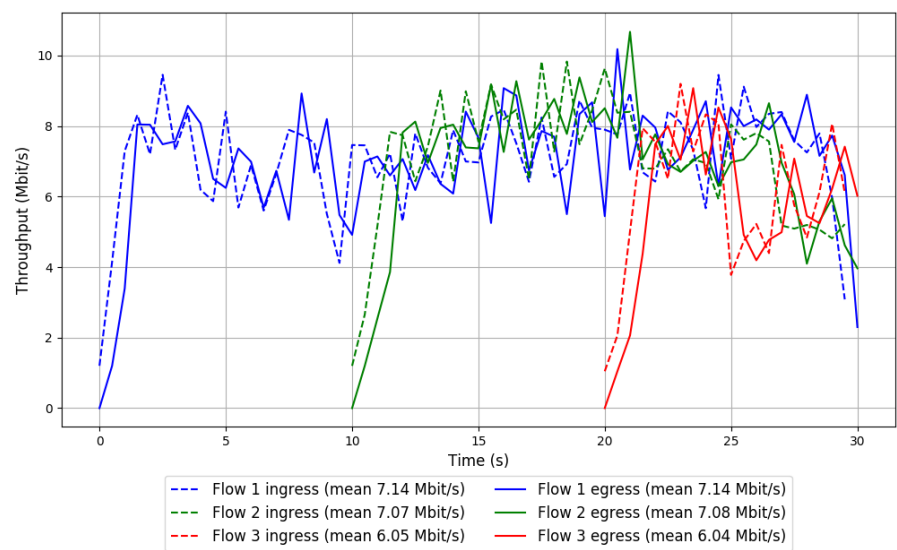


Run 6: Statistics of Sprout

Start at: 2018-06-07 18:31:12
End at: 2018-06-07 18:31:42
Local clock offset: 0.609 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-06-07 21:49:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 51.772 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 51.848 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 51.694 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 6.04 Mbit/s
95th percentile per-packet one-way delay: 51.703 ms
Loss rate: 1.11%

Run 6: Report of Sprout — Data Link

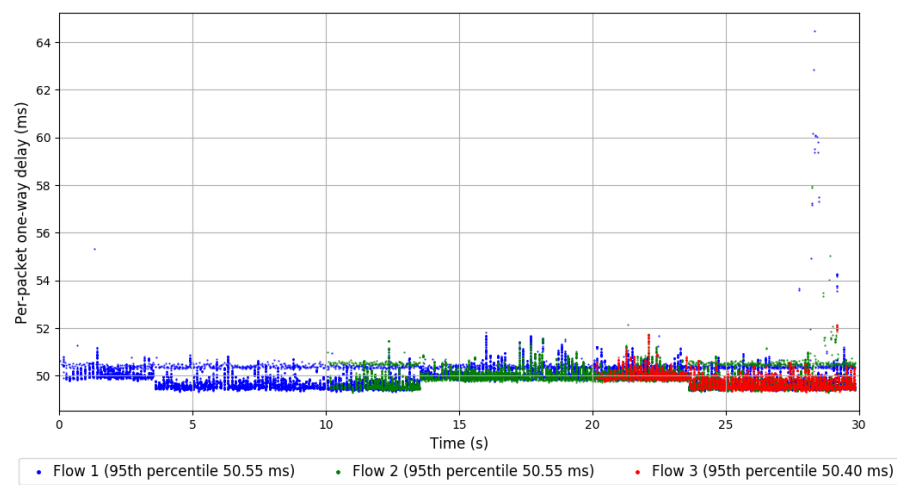
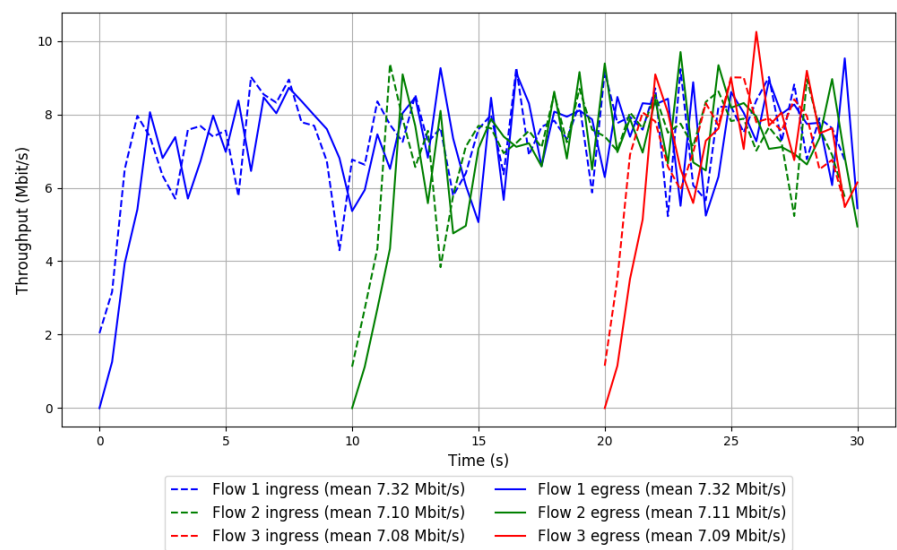


Run 7: Statistics of Sprout

Start at: 2018-06-07 18:53:36
End at: 2018-06-07 18:54:06
Local clock offset: -0.12 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-07 21:49:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.37 Mbit/s
95th percentile per-packet one-way delay: 50.535 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 50.545 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 50.555 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 50.402 ms
Loss rate: 0.51%

Run 7: Report of Sprout — Data Link

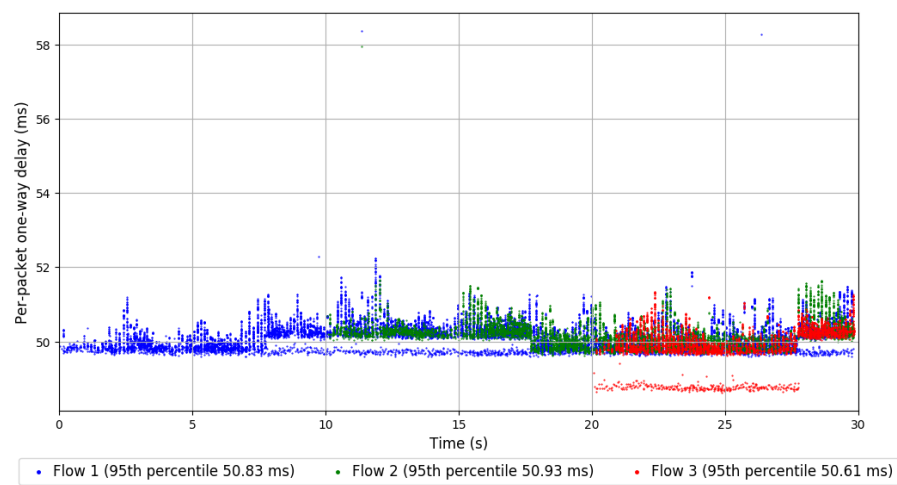
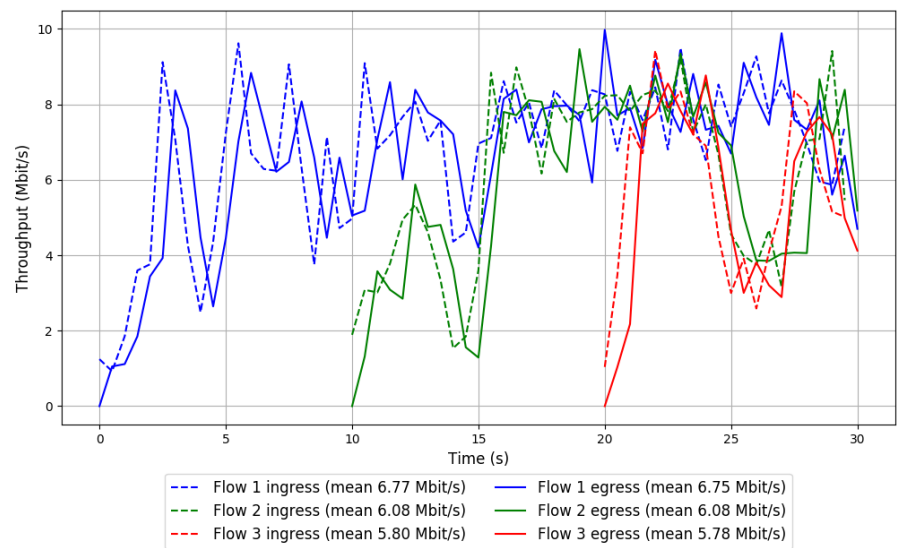


Run 8: Statistics of Sprout

Start at: 2018-06-07 19:15:42
End at: 2018-06-07 19:16:12
Local clock offset: 0.231 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-07 21:49:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 50.829 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 50.826 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 50.928 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 50.611 ms
Loss rate: 1.39%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-07 19:37:55

End at: 2018-06-07 19:38:26

Local clock offset: 0.338 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-07 21:49:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 11.28 Mbit/s

95th percentile per-packet one-way delay: 50.927 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 4.84 Mbit/s

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

Loss rate: 0.02%

-- Flow 2:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 50.981 ms

Loss rate: 0.33%

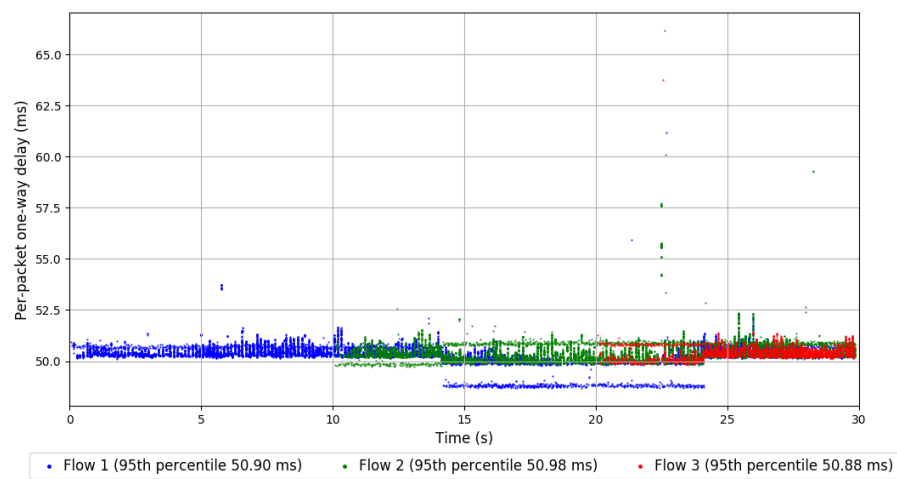
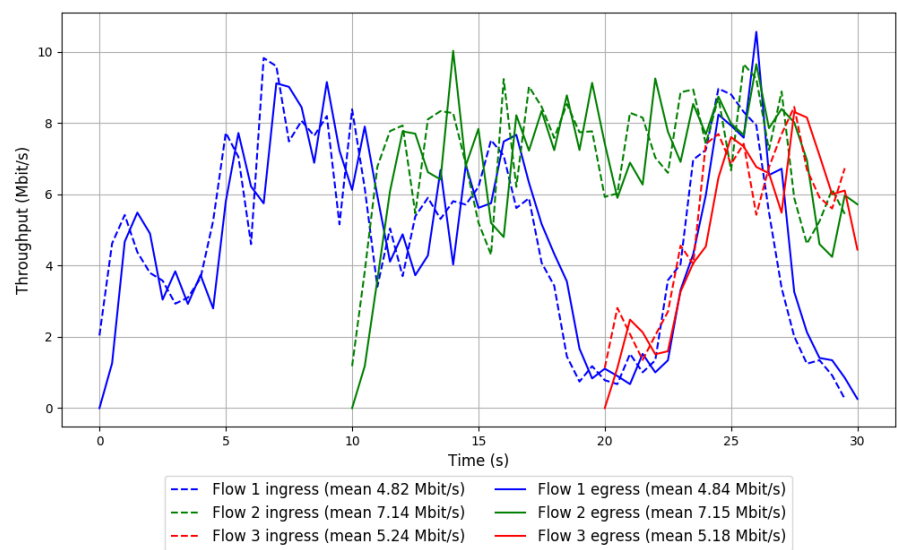
-- Flow 3:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 50.875 ms

Loss rate: 2.21%

Run 9: Report of Sprout — Data Link

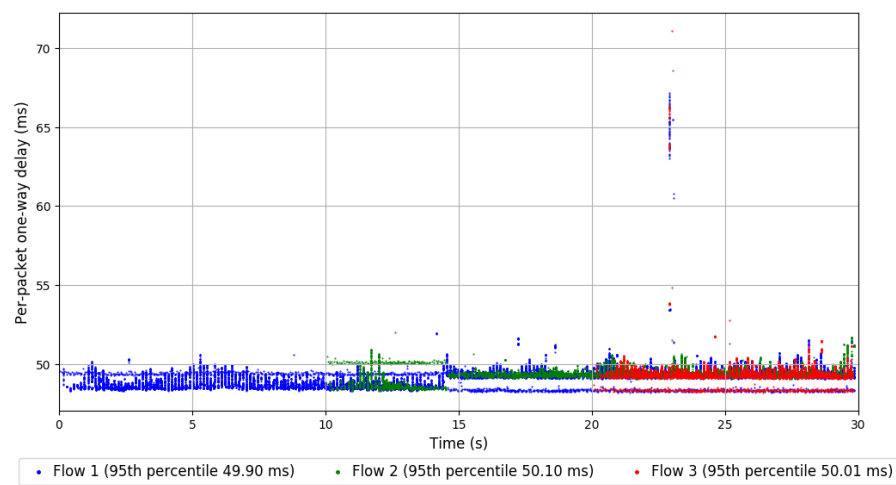
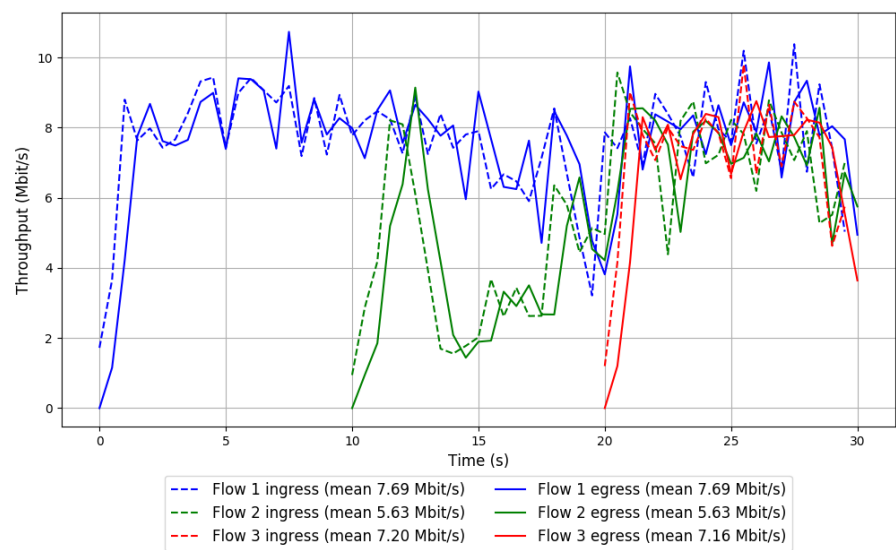


Run 10: Statistics of Sprout

Start at: 2018-06-07 19:59:55
End at: 2018-06-07 20:00:25
Local clock offset: -0.407 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-07 21:49:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.78 Mbit/s
95th percentile per-packet one-way delay: 49.996 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 49.898 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 5.63 Mbit/s
95th percentile per-packet one-way delay: 50.096 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 50.010 ms
Loss rate: 1.49%

Run 10: Report of Sprout — Data Link

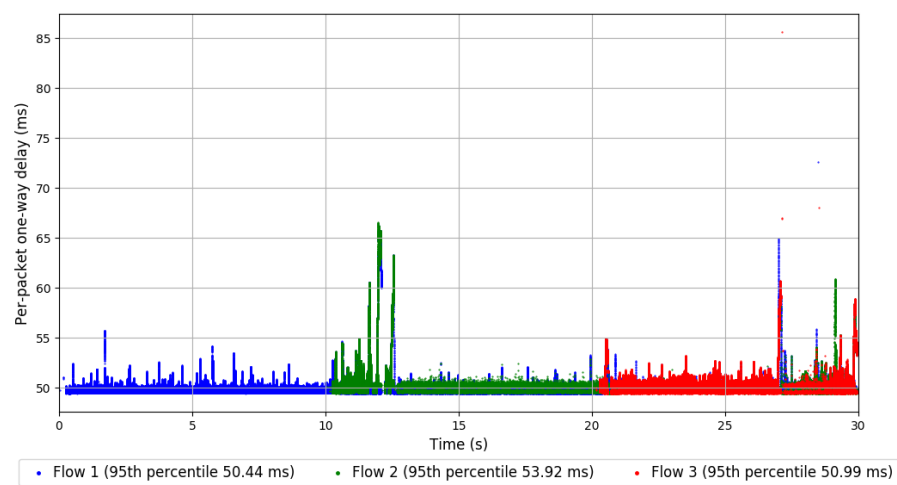
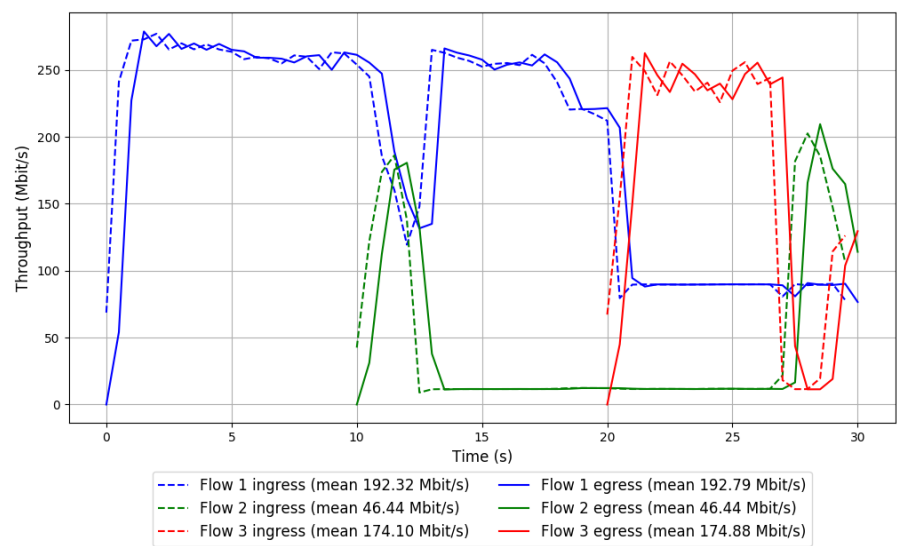


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-07 16:36:29
End at: 2018-06-07 16:36:59
Local clock offset: -0.036 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-07 21:55:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 281.33 Mbit/s
95th percentile per-packet one-way delay: 50.833 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 192.79 Mbit/s
95th percentile per-packet one-way delay: 50.441 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 46.44 Mbit/s
95th percentile per-packet one-way delay: 53.916 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 174.88 Mbit/s
95th percentile per-packet one-way delay: 50.993 ms
Loss rate: 0.26%

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

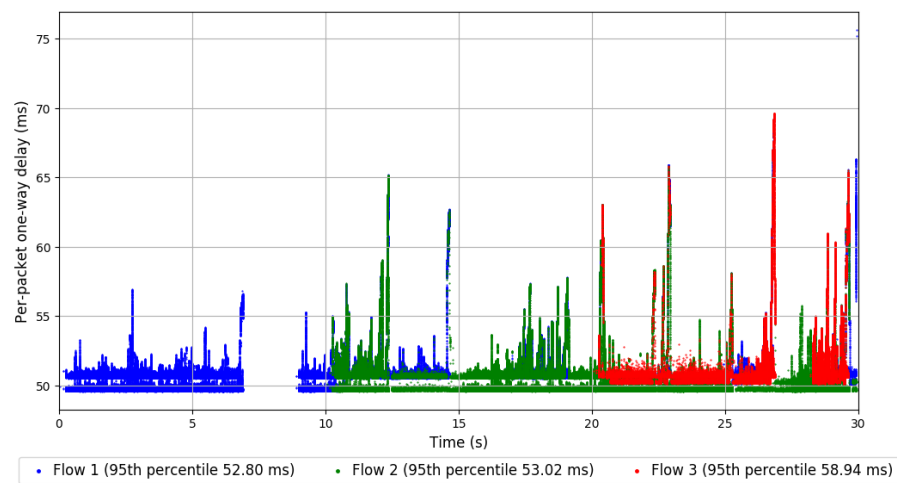
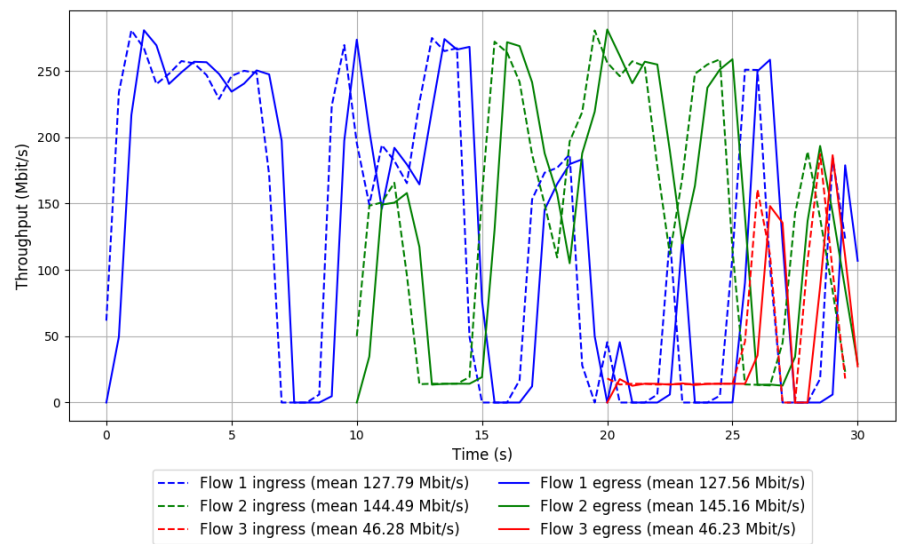


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-07 16:58:39
End at: 2018-06-07 16:59:09
Local clock offset: -0.024 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-07 21:55:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 238.92 Mbit/s
95th percentile per-packet one-way delay: 53.263 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 127.56 Mbit/s
95th percentile per-packet one-way delay: 52.799 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 145.16 Mbit/s
95th percentile per-packet one-way delay: 53.016 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 46.23 Mbit/s
95th percentile per-packet one-way delay: 58.939 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-07 17:20:44

End at: 2018-06-07 17:21:14

Local clock offset: -0.368 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-07 21:56:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 294.23 Mbit/s

95th percentile per-packet one-way delay: 51.159 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 172.11 Mbit/s

95th percentile per-packet one-way delay: 50.979 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 93.69 Mbit/s

95th percentile per-packet one-way delay: 51.552 ms

Loss rate: 0.47%

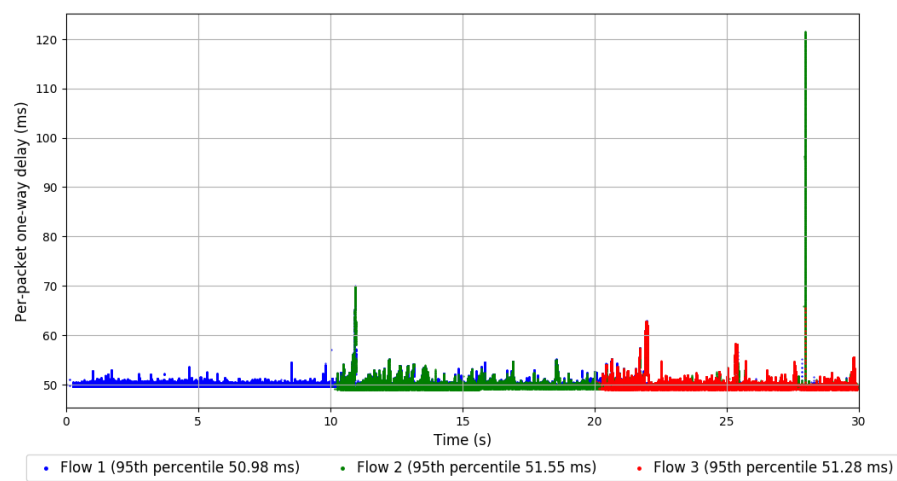
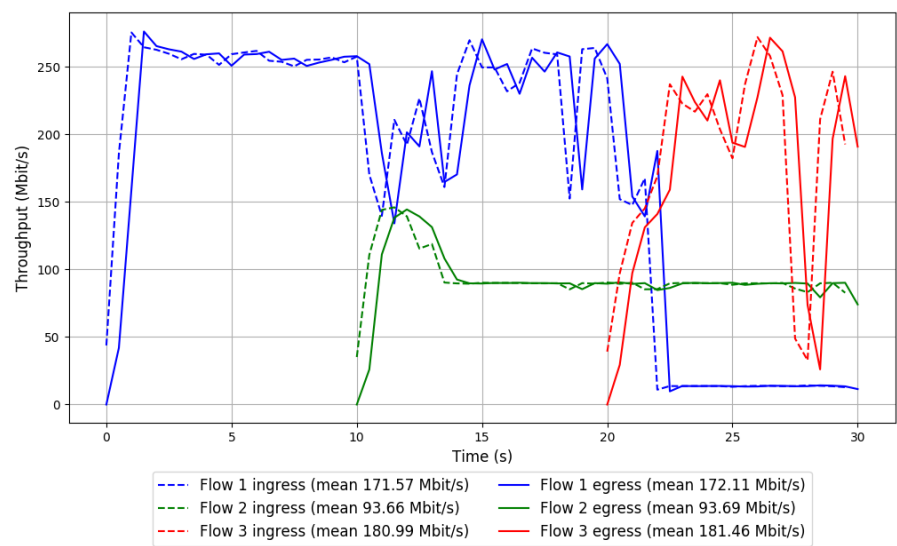
-- Flow 3:

Average throughput: 181.46 Mbit/s

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

Loss rate: 0.77%

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

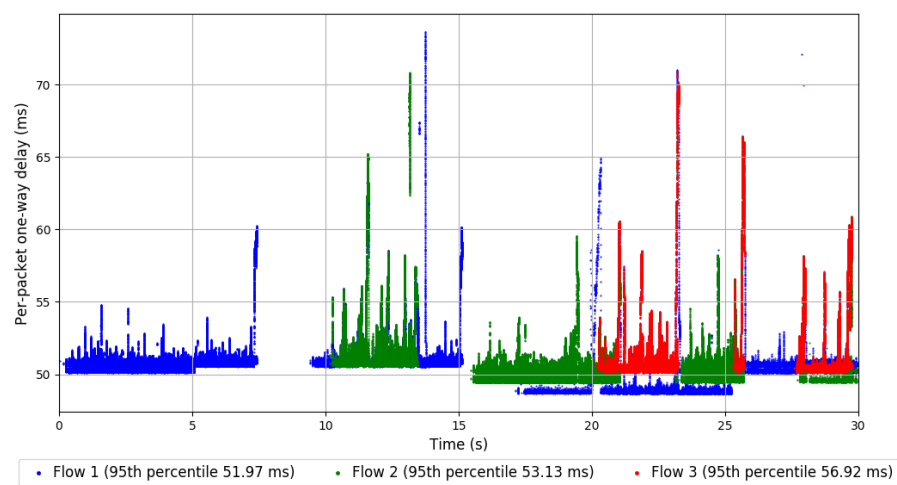
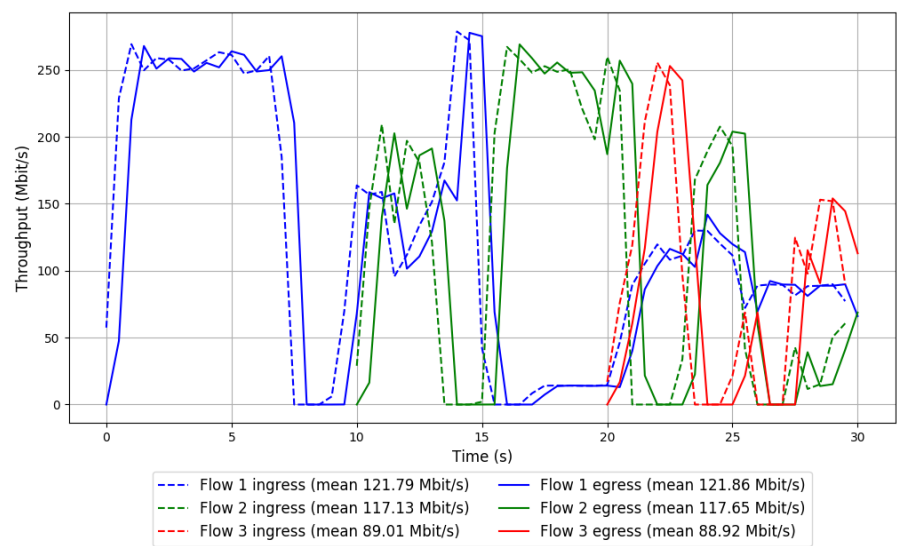


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-07 17:43:05
End at: 2018-06-07 17:43:35
Local clock offset: 0.033 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-06-07 21:56:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 228.93 Mbit/s
95th percentile per-packet one-way delay: 52.956 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 121.86 Mbit/s
95th percentile per-packet one-way delay: 51.967 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 117.65 Mbit/s
95th percentile per-packet one-way delay: 53.126 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 88.92 Mbit/s
95th percentile per-packet one-way delay: 56.919 ms
Loss rate: 0.00%

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

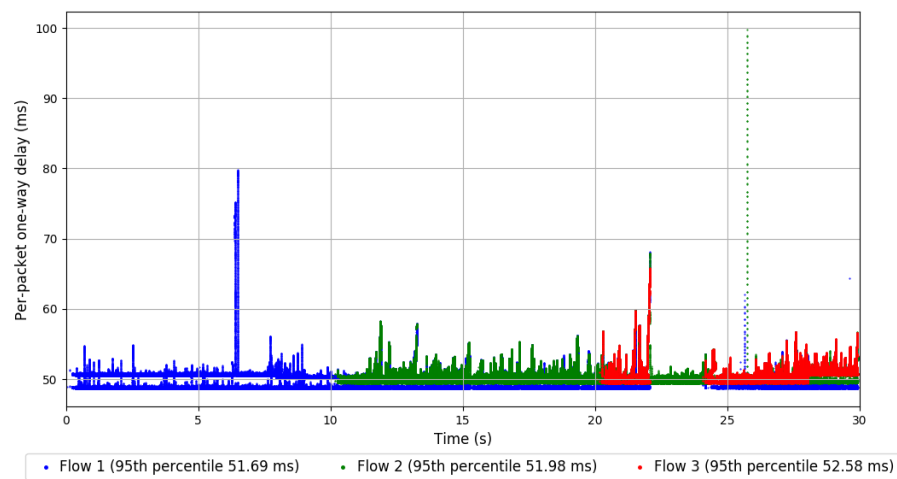
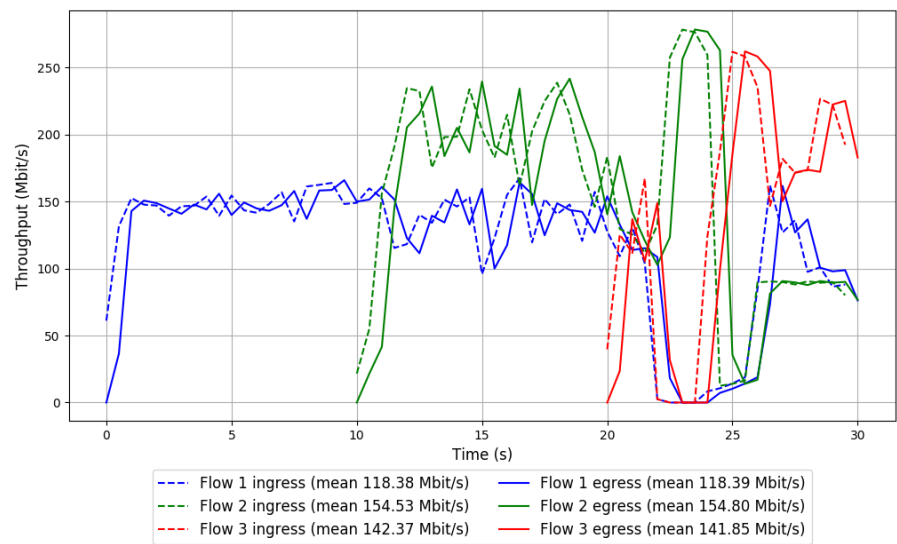


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-07 18:05:12
End at: 2018-06-07 18:05:42
Local clock offset: 0.102 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-07 21:56:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 268.10 Mbit/s
95th percentile per-packet one-way delay: 51.999 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 118.39 Mbit/s
95th percentile per-packet one-way delay: 51.689 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 154.80 Mbit/s
95th percentile per-packet one-way delay: 51.985 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 141.85 Mbit/s
95th percentile per-packet one-way delay: 52.575 ms
Loss rate: 1.09%

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

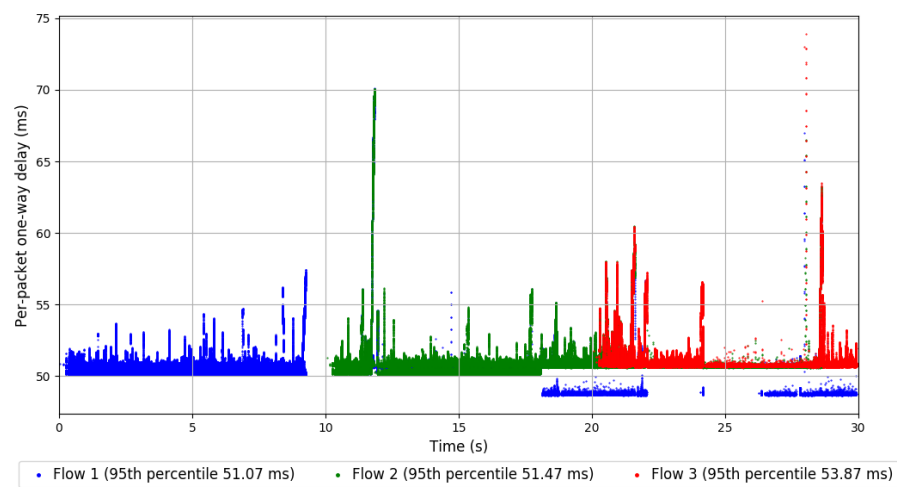
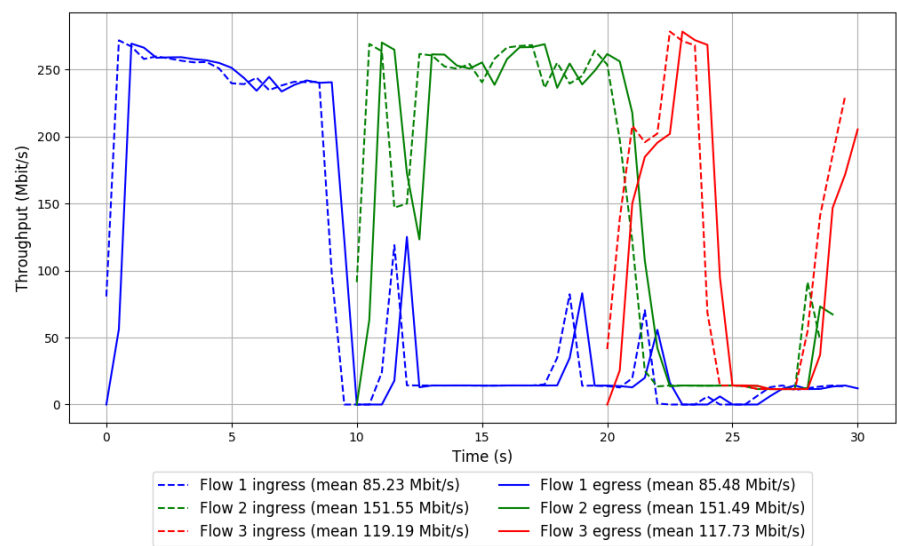


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-07 18:27:22
End at: 2018-06-07 18:27:52
Local clock offset: 0.178 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-07 21:56:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 218.64 Mbit/s
95th percentile per-packet one-way delay: 51.539 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 51.068 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 151.49 Mbit/s
95th percentile per-packet one-way delay: 51.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 117.73 Mbit/s
95th percentile per-packet one-way delay: 53.865 ms
Loss rate: 2.22%

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

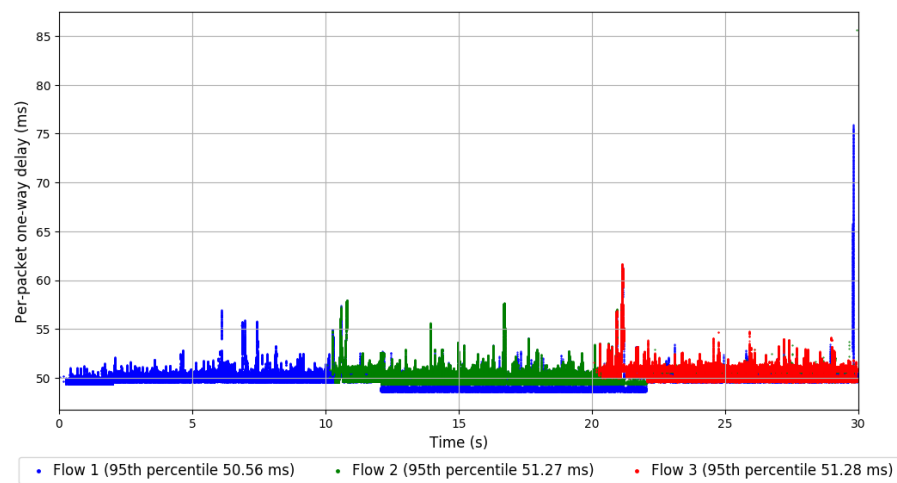
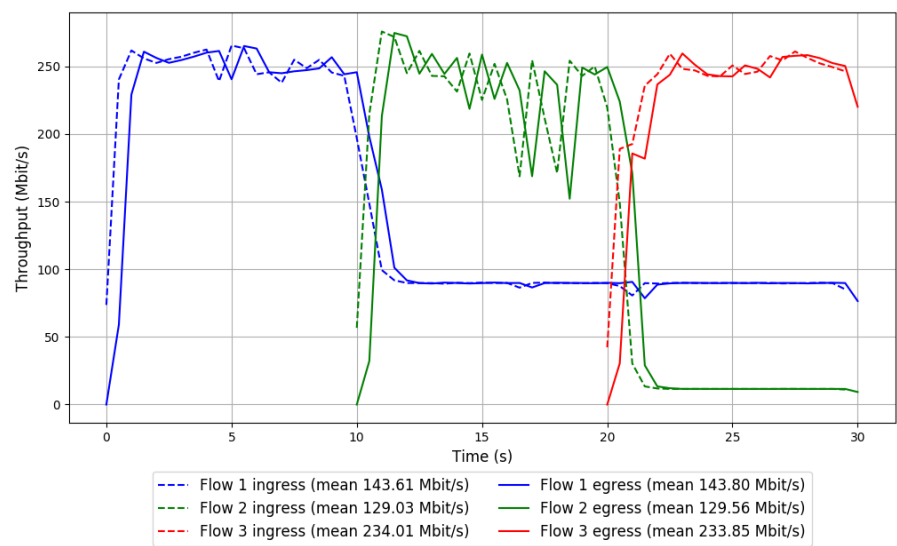


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-07 18:49:38
End at: 2018-06-07 18:50:08
Local clock offset: 0.231 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-07 21:57:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 307.07 Mbit/s
95th percentile per-packet one-way delay: 51.067 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 143.80 Mbit/s
95th percentile per-packet one-way delay: 50.561 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 129.56 Mbit/s
95th percentile per-packet one-way delay: 51.272 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 233.85 Mbit/s
95th percentile per-packet one-way delay: 51.276 ms
Loss rate: 1.09%

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

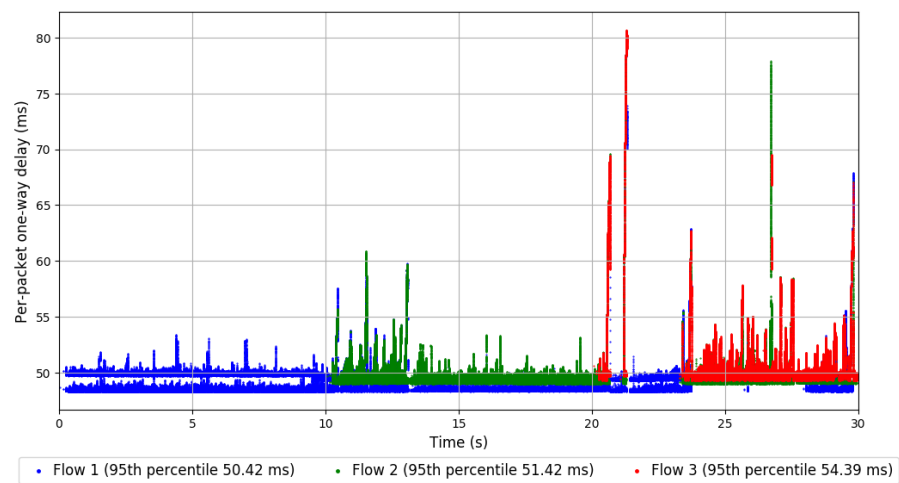
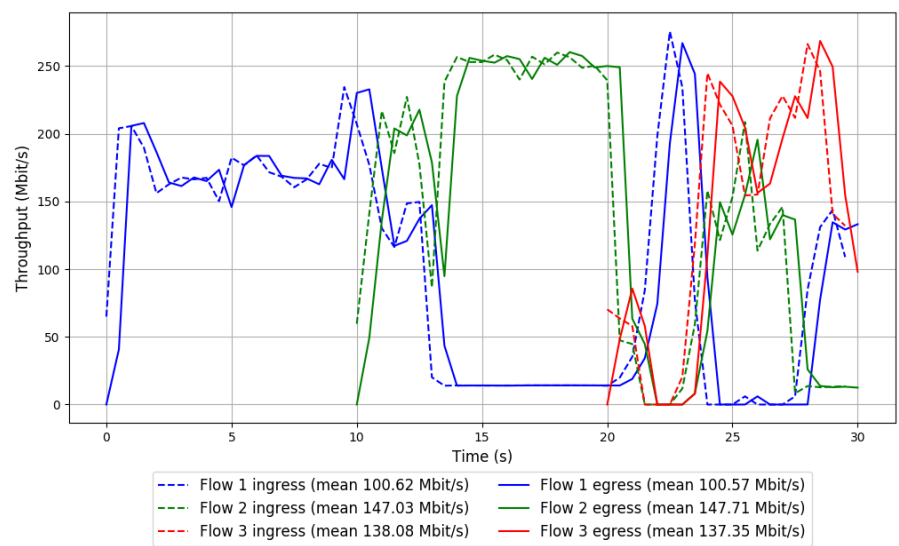


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-07 19:11:50
End at: 2018-06-07 19:12:20
Local clock offset: -0.071 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-07 21:57:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 243.70 Mbit/s
95th percentile per-packet one-way delay: 51.706 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 100.57 Mbit/s
95th percentile per-packet one-way delay: 50.423 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.71 Mbit/s
95th percentile per-packet one-way delay: 51.423 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 137.35 Mbit/s
95th percentile per-packet one-way delay: 54.390 ms
Loss rate: 1.54%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-07 19:34:02

End at: 2018-06-07 19:34:32

Local clock offset: 0.713 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-07 22:02:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.42 Mbit/s

95th percentile per-packet one-way delay: 53.323 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 128.24 Mbit/s

95th percentile per-packet one-way delay: 52.397 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 122.05 Mbit/s

95th percentile per-packet one-way delay: 54.396 ms

Loss rate: 1.07%

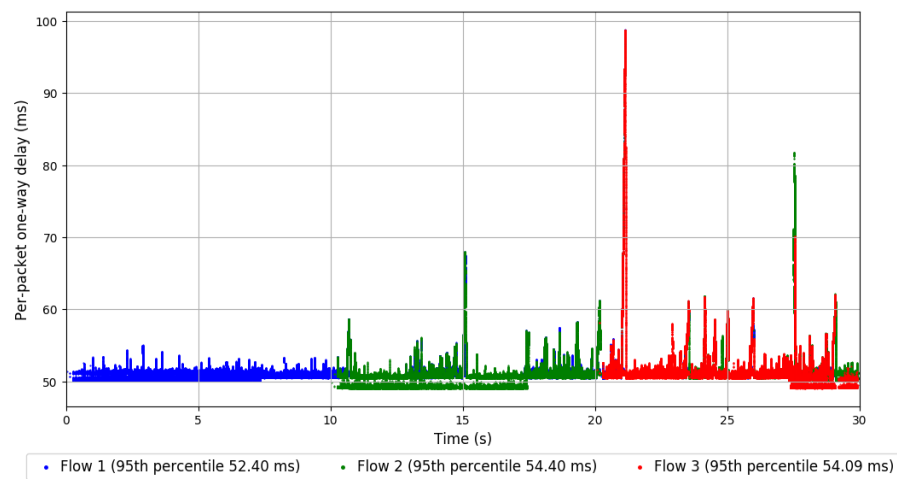
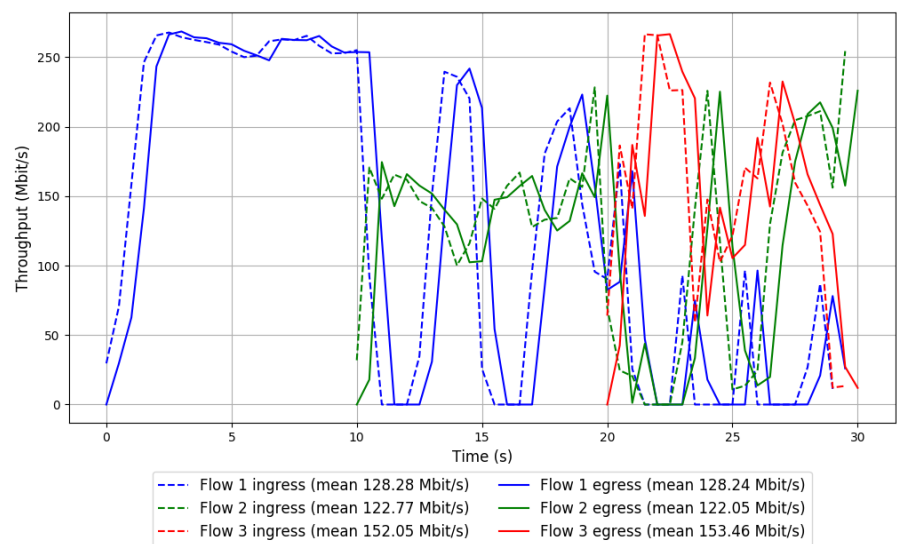
-- Flow 3:

Average throughput: 153.46 Mbit/s

95th percentile per-packet one-way delay: 54.095 ms

Loss rate: 0.09%

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

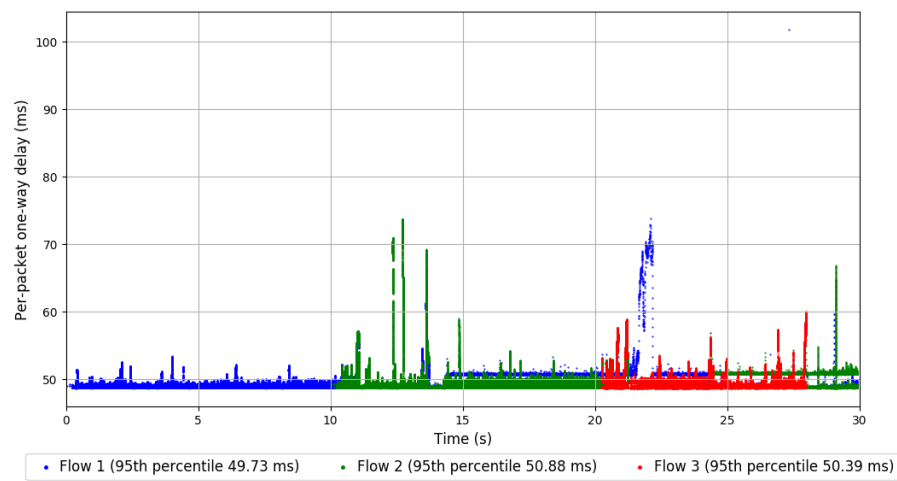
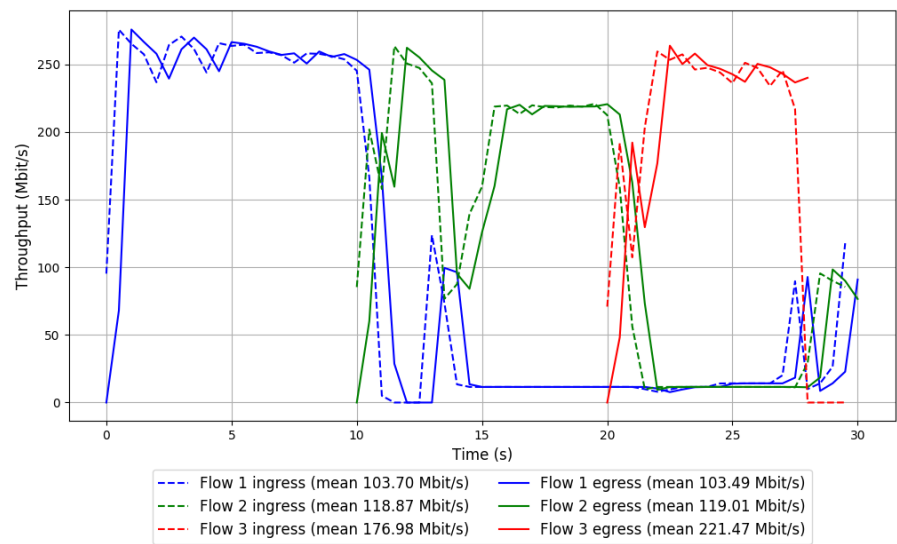


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-07 19:56:05
End at: 2018-06-07 19:56:35
Local clock offset: 0.028 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-06-07 22:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.46 Mbit/s
95th percentile per-packet one-way delay: 50.689 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 103.49 Mbit/s
95th percentile per-packet one-way delay: 49.732 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 119.01 Mbit/s
95th percentile per-packet one-way delay: 50.877 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 221.47 Mbit/s
95th percentile per-packet one-way delay: 50.387 ms
Loss rate: 0.00%

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

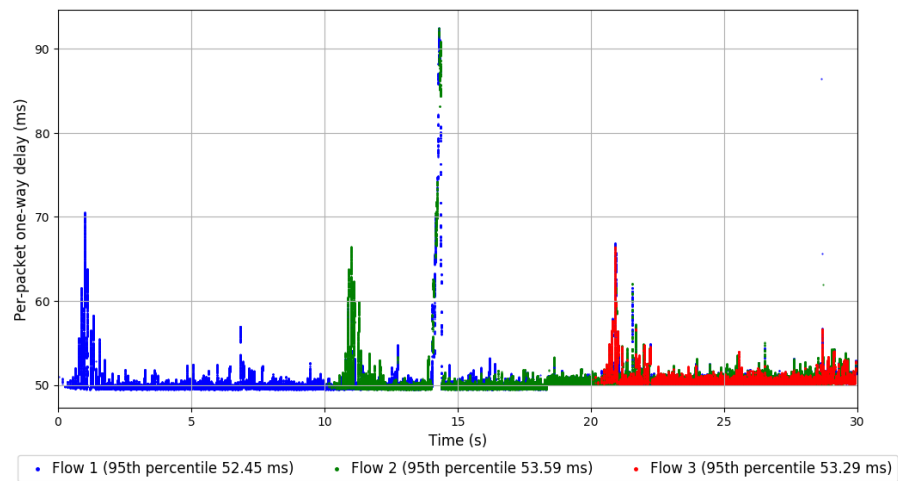
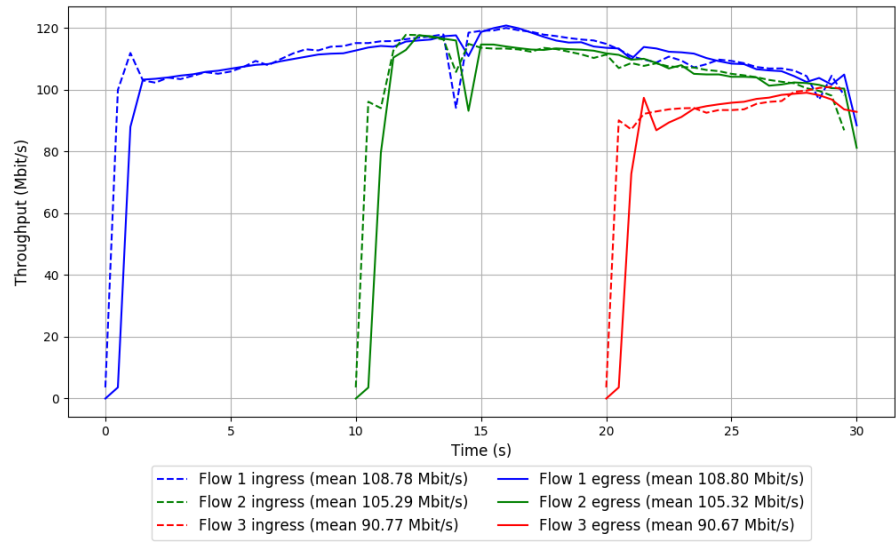


Run 1: Statistics of TCP Vegas

Start at: 2018-06-07 16:30:11
End at: 2018-06-07 16:30:41
Local clock offset: -0.061 ms
Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-07 22:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 208.76 Mbit/s
95th percentile per-packet one-way delay: 53.024 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 108.80 Mbit/s
95th percentile per-packet one-way delay: 52.448 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 105.32 Mbit/s
95th percentile per-packet one-way delay: 53.592 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 53.289 ms
Loss rate: 1.12%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-07 16:52:17

End at: 2018-06-07 16:52:47

Local clock offset: -0.445 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2018-06-07 22:02:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.30 Mbit/s

95th percentile per-packet one-way delay: 52.293 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 104.25 Mbit/s

95th percentile per-packet one-way delay: 52.129 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 41.35 Mbit/s

95th percentile per-packet one-way delay: 52.523 ms

Loss rate: 0.52%

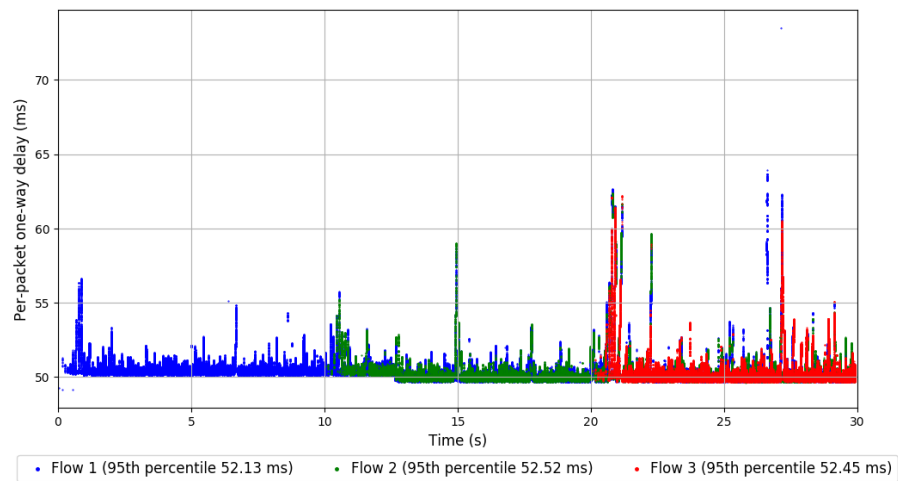
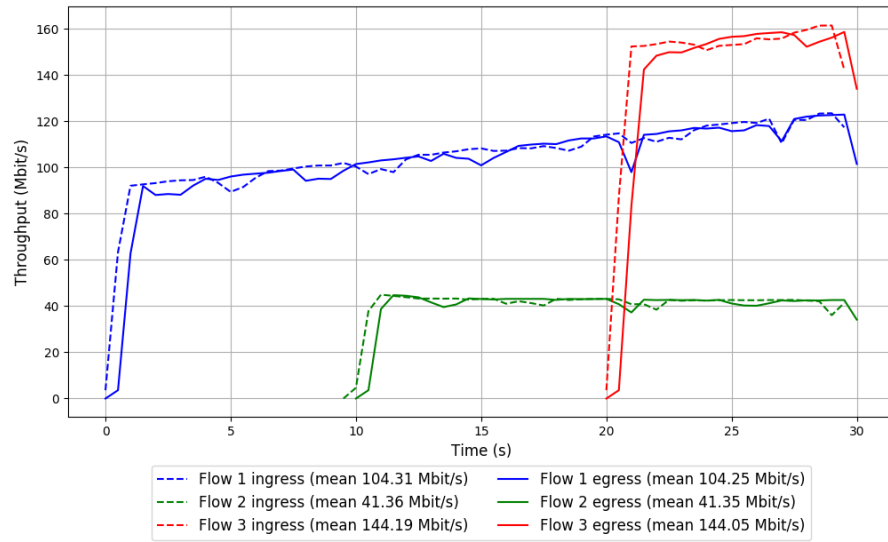
-- Flow 3:

Average throughput: 144.05 Mbit/s

95th percentile per-packet one-way delay: 52.449 ms

Loss rate: 1.12%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-07 17:14:29

End at: 2018-06-07 17:14:59

Local clock offset: -0.003 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-07 22:02:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.55 Mbit/s

95th percentile per-packet one-way delay: 51.874 ms

Loss rate: 0.49%

-- Flow 1:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 52.015 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 101.01 Mbit/s

95th percentile per-packet one-way delay: 51.739 ms

Loss rate: 0.53%

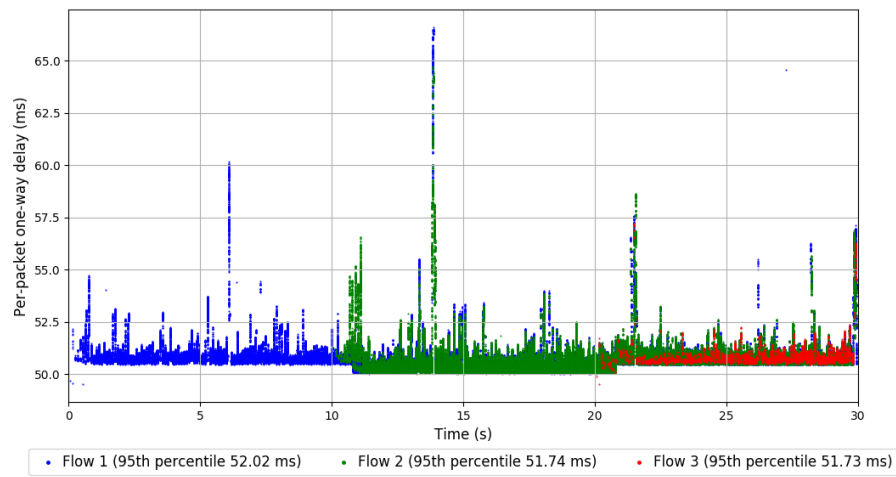
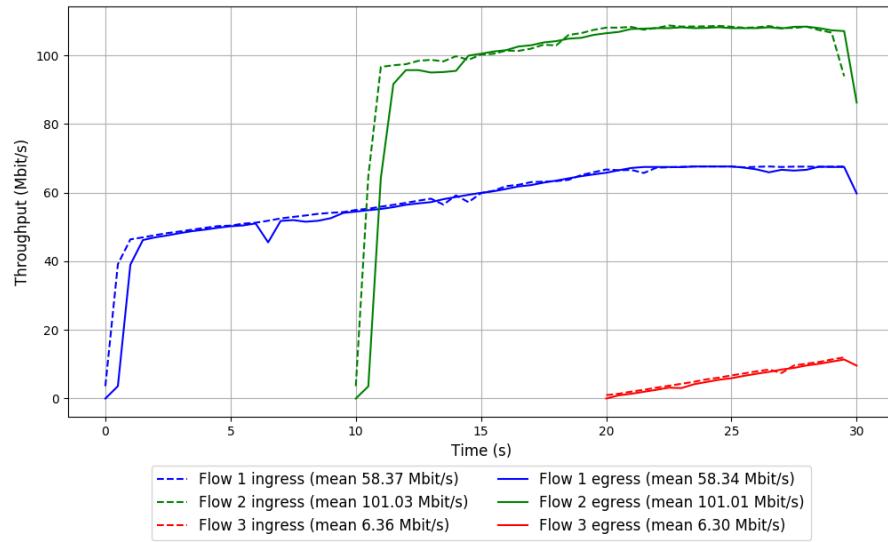
-- Flow 3:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 51.731 ms

Loss rate: 1.97%

Run 3: Report of TCP Vegas — Data Link

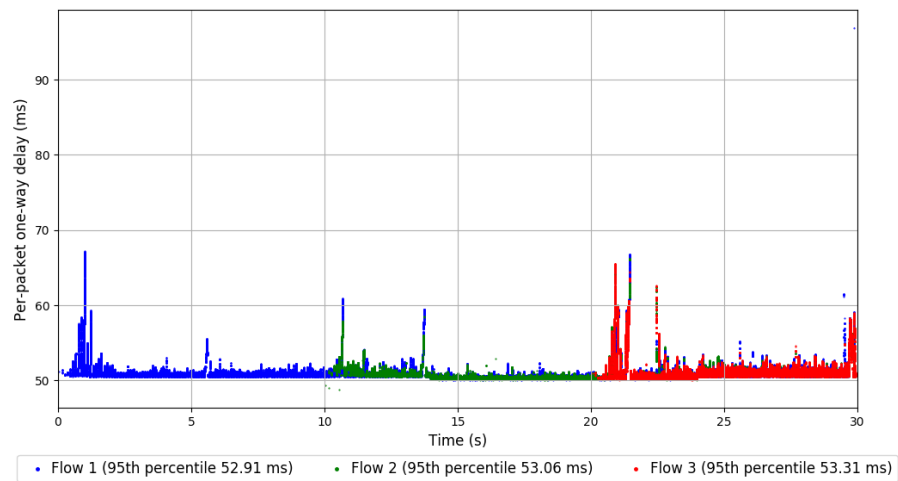
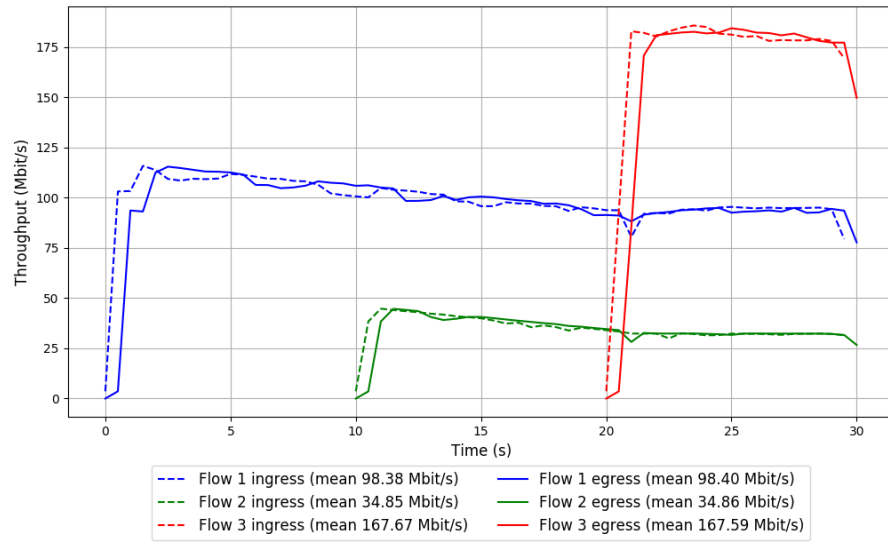


Run 4: Statistics of TCP Vegas

Start at: 2018-06-07 17:36:46
End at: 2018-06-07 17:37:16
Local clock offset: 0.011 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-07 22:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 176.92 Mbit/s
95th percentile per-packet one-way delay: 53.021 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 98.40 Mbit/s
95th percentile per-packet one-way delay: 52.909 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 53.065 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 167.59 Mbit/s
95th percentile per-packet one-way delay: 53.306 ms
Loss rate: 1.06%

Run 4: Report of TCP Vegas — Data Link

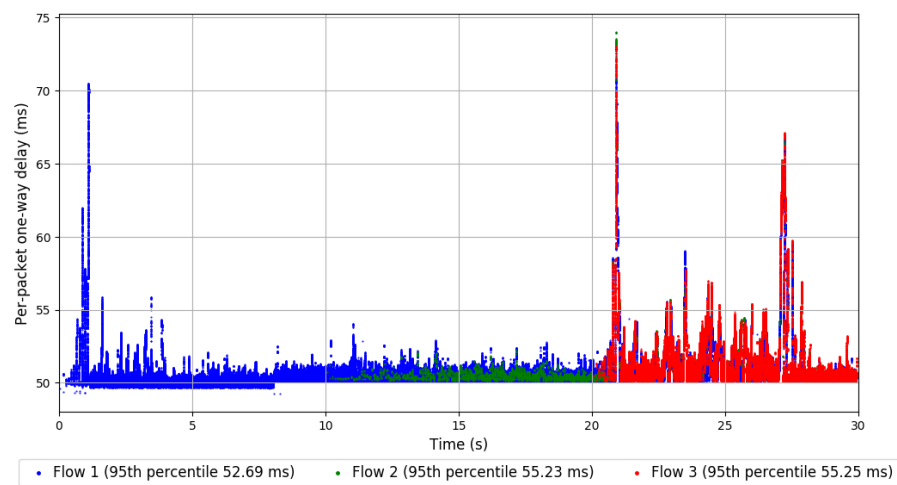
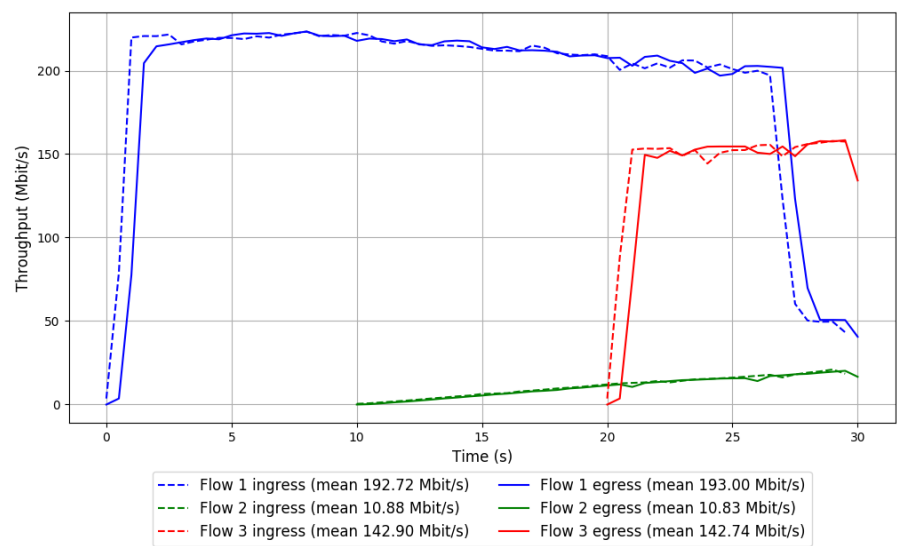


Run 5: Statistics of TCP Vegas

Start at: 2018-06-07 17:58:52
End at: 2018-06-07 17:59:22
Local clock offset: -0.335 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-06-07 22:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 247.31 Mbit/s
95th percentile per-packet one-way delay: 53.590 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 193.00 Mbit/s
95th percentile per-packet one-way delay: 52.688 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 55.231 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 142.74 Mbit/s
95th percentile per-packet one-way delay: 55.251 ms
Loss rate: 1.12%

Run 5: Report of TCP Vegas — Data Link

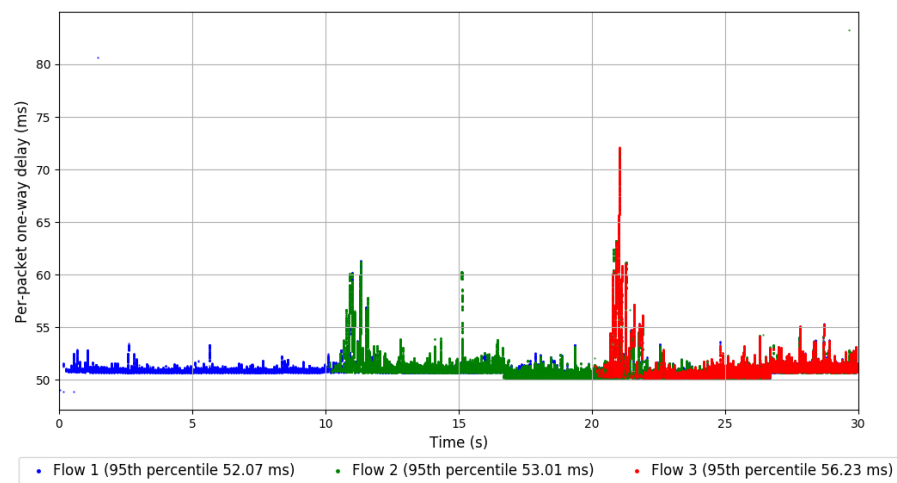
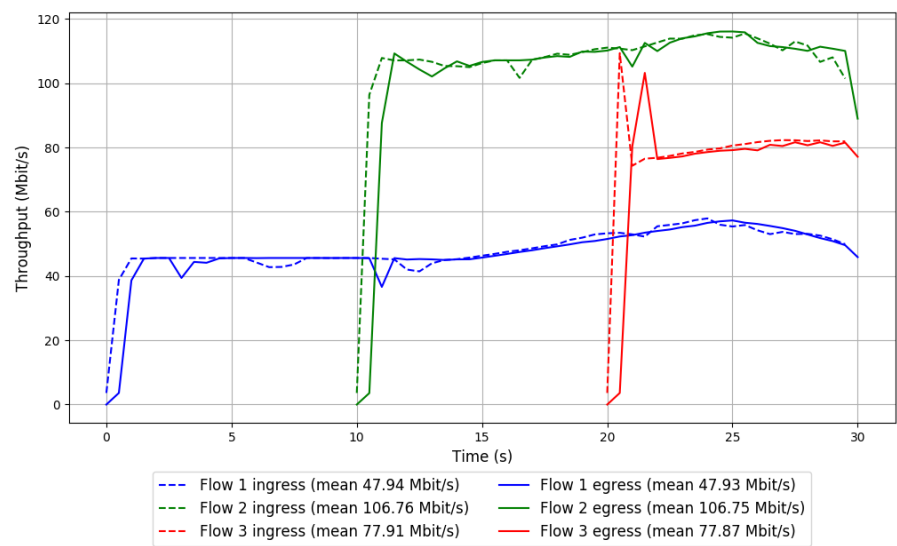


Run 6: Statistics of TCP Vegas

Start at: 2018-06-07 18:21:03
End at: 2018-06-07 18:21:33
Local clock offset: 0.183 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-07 22:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 144.57 Mbit/s
95th percentile per-packet one-way delay: 53.169 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 47.93 Mbit/s
95th percentile per-packet one-way delay: 52.073 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 106.75 Mbit/s
95th percentile per-packet one-way delay: 53.010 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 56.226 ms
Loss rate: 1.06%

Run 6: Report of TCP Vegas — Data Link

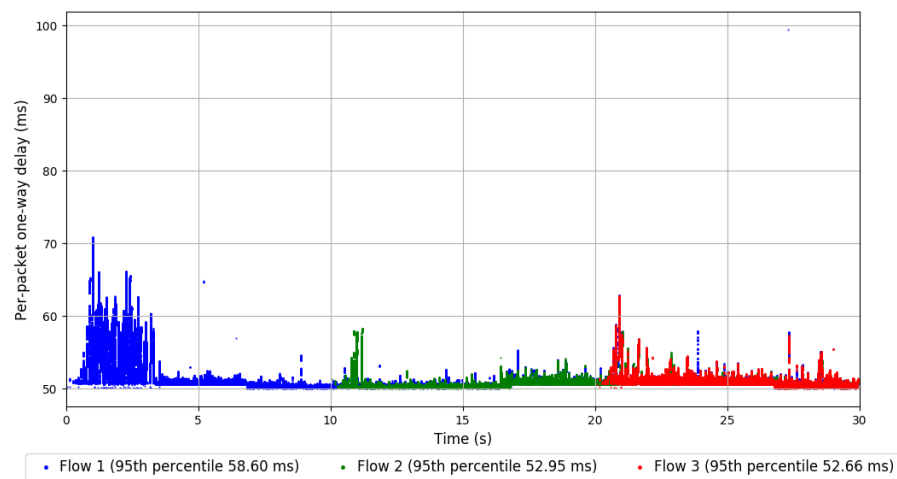
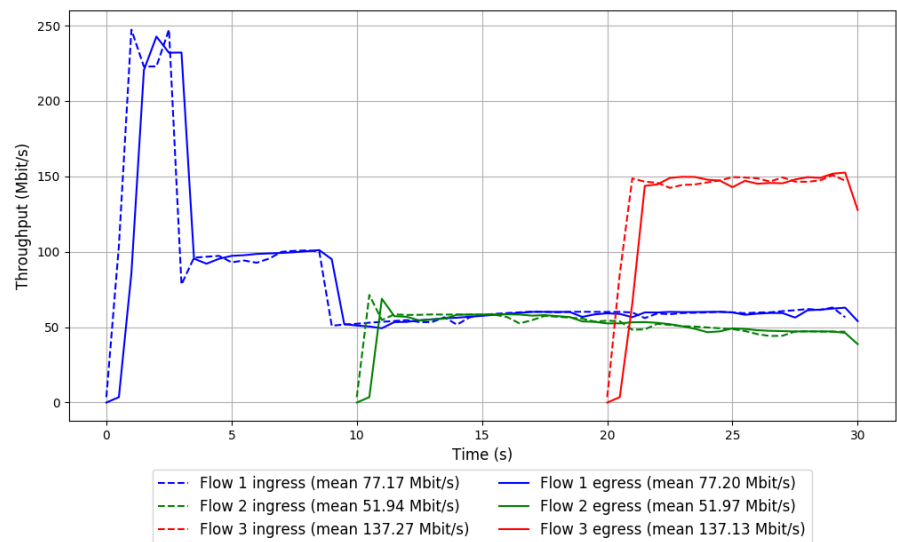


Run 7: Statistics of TCP Vegas

Start at: 2018-06-07 18:43:13
End at: 2018-06-07 18:43:43
Local clock offset: 0.216 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-07 22:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.99 Mbit/s
95th percentile per-packet one-way delay: 56.600 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 77.20 Mbit/s
95th percentile per-packet one-way delay: 58.605 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 51.97 Mbit/s
95th percentile per-packet one-way delay: 52.952 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 137.13 Mbit/s
95th percentile per-packet one-way delay: 52.658 ms
Loss rate: 1.12%

Run 7: Report of TCP Vegas — Data Link

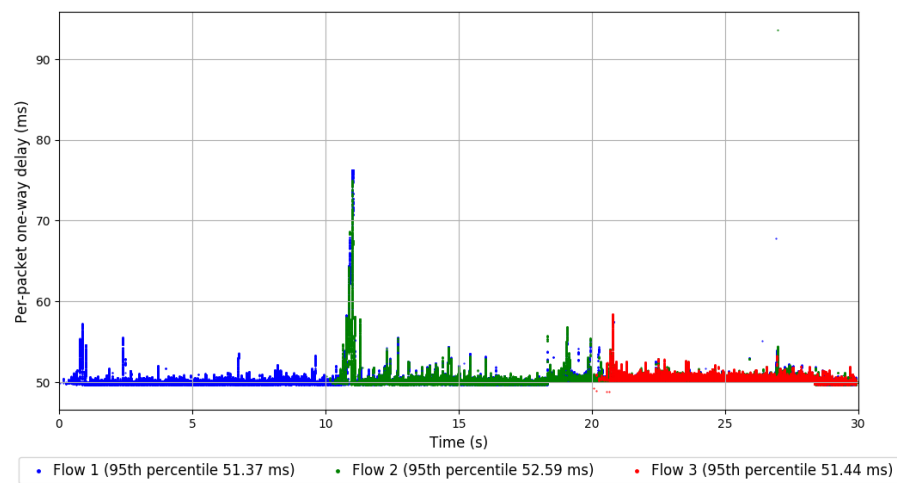
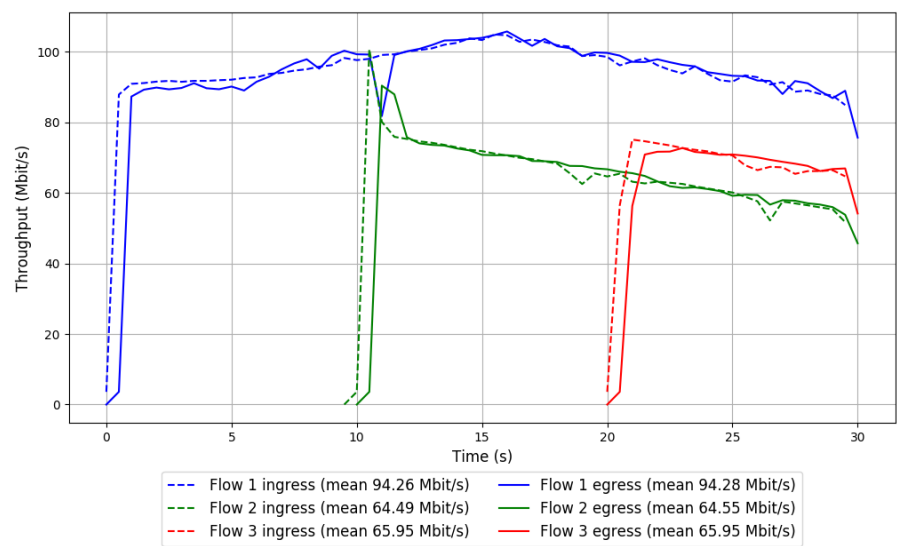


Run 8: Statistics of TCP Vegas

Start at: 2018-06-07 19:05:31
End at: 2018-06-07 19:06:01
Local clock offset: 0.301 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-07 22:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 158.92 Mbit/s
95th percentile per-packet one-way delay: 51.600 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 51.370 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 64.55 Mbit/s
95th percentile per-packet one-way delay: 52.589 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 51.438 ms
Loss rate: 1.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-07 19:27:44

End at: 2018-06-07 19:28:14

Local clock offset: 0.697 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-07 22:02:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.65 Mbit/s

95th percentile per-packet one-way delay: 52.328 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 90.09 Mbit/s

95th percentile per-packet one-way delay: 52.454 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 12.07 Mbit/s

95th percentile per-packet one-way delay: 51.581 ms

Loss rate: 1.02%

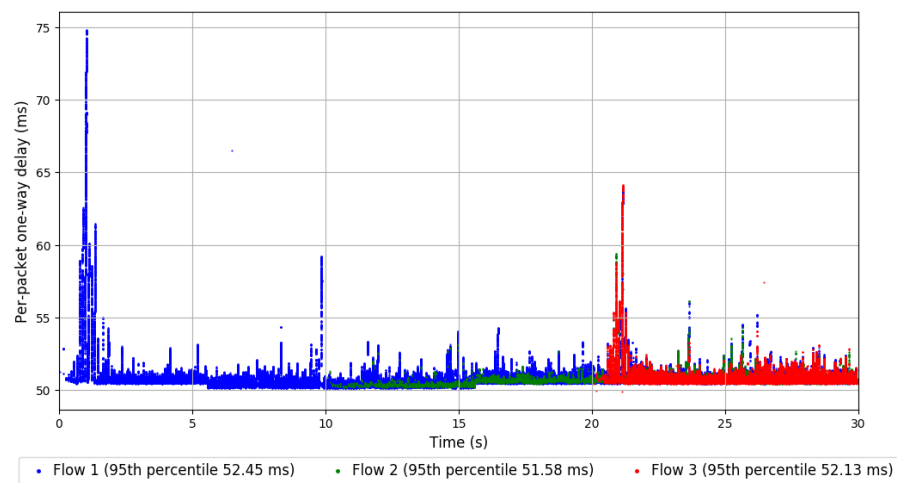
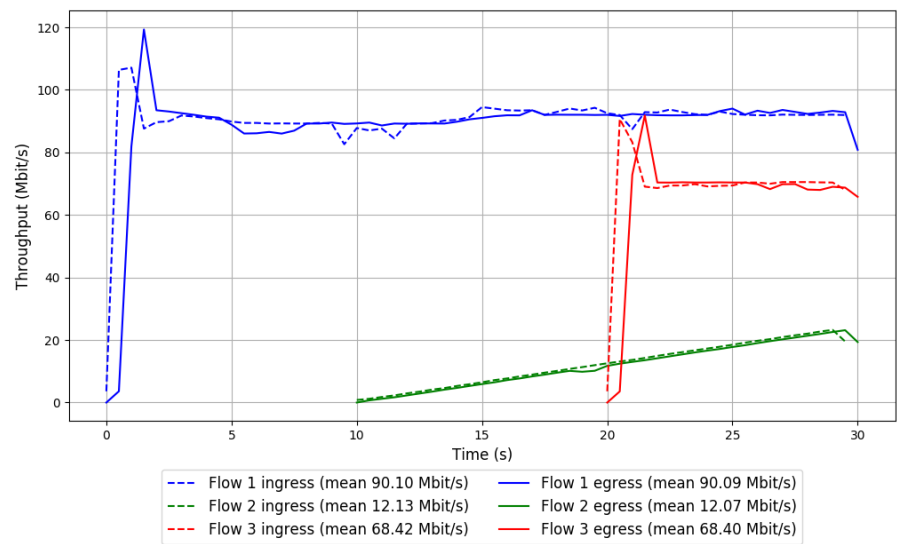
-- Flow 3:

Average throughput: 68.40 Mbit/s

95th percentile per-packet one-way delay: 52.131 ms

Loss rate: 1.03%

Run 9: Report of TCP Vegas — Data Link

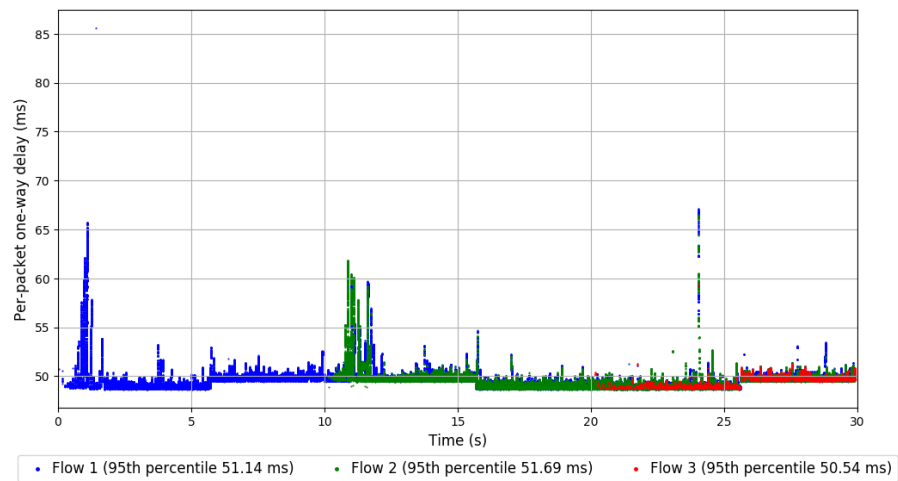
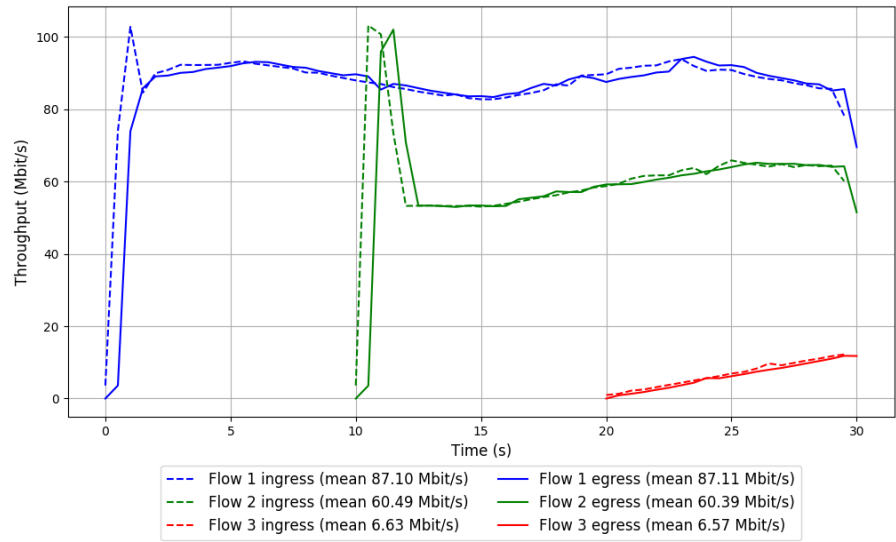


Run 10: Statistics of TCP Vegas

Start at: 2018-06-07 19:49:54
End at: 2018-06-07 19:50:24
Local clock offset: 0.112 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-07 22:02:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 129.37 Mbit/s
95th percentile per-packet one-way delay: 51.252 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 87.11 Mbit/s
95th percentile per-packet one-way delay: 51.140 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 60.39 Mbit/s
95th percentile per-packet one-way delay: 51.688 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 50.542 ms
Loss rate: 1.95%

Run 10: Report of TCP Vegas — Data Link

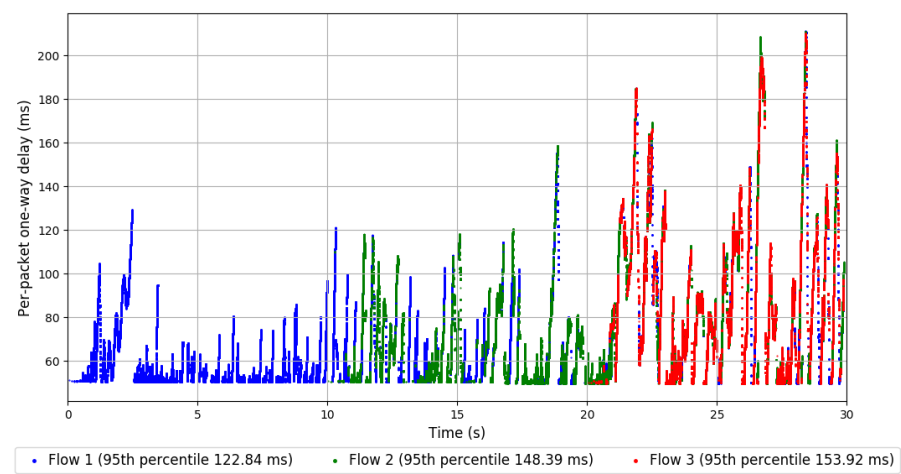
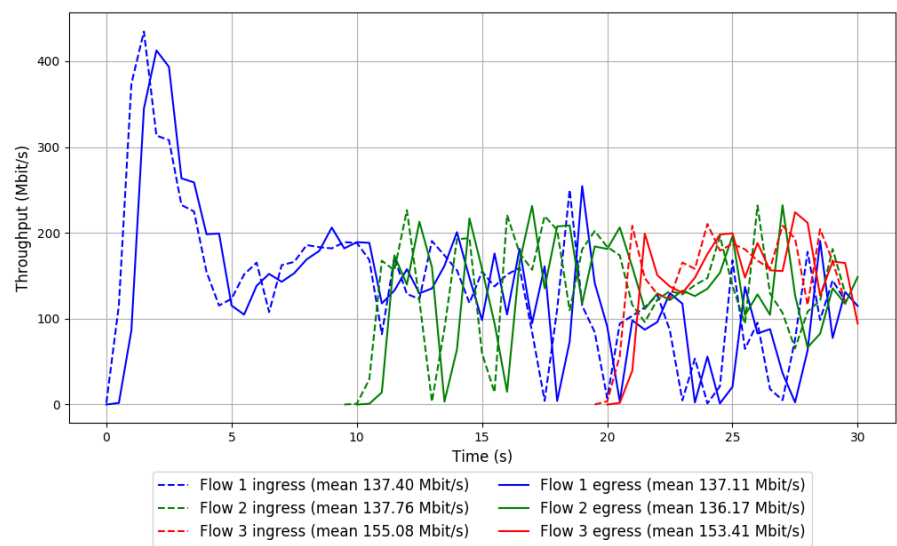


Run 1: Statistics of Verus

Start at: 2018-06-07 16:35:03
End at: 2018-06-07 16:35:33
Local clock offset: 0.306 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-07 22:04:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 278.25 Mbit/s
95th percentile per-packet one-way delay: 137.591 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 137.11 Mbit/s
95th percentile per-packet one-way delay: 122.842 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 136.17 Mbit/s
95th percentile per-packet one-way delay: 148.392 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 153.41 Mbit/s
95th percentile per-packet one-way delay: 153.922 ms
Loss rate: 2.18%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-07 16:57:11

End at: 2018-06-07 16:57:41

Local clock offset: 0.345 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-07 22:05:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.11 Mbit/s

95th percentile per-packet one-way delay: 154.516 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 217.18 Mbit/s

95th percentile per-packet one-way delay: 142.480 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 91.68 Mbit/s

95th percentile per-packet one-way delay: 171.115 ms

Loss rate: 0.62%

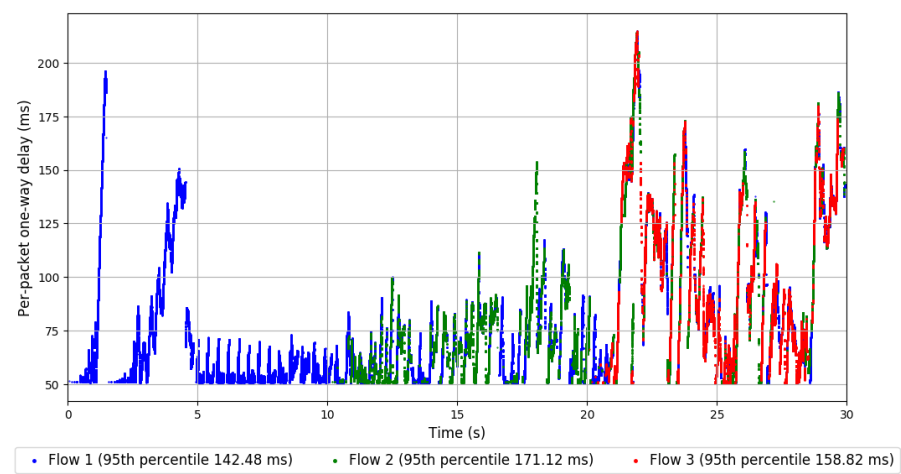
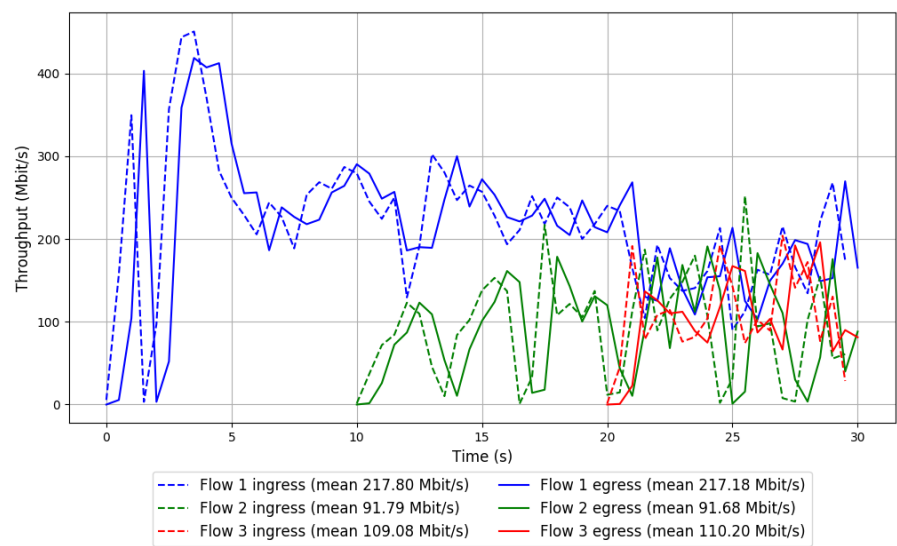
-- Flow 3:

Average throughput: 110.20 Mbit/s

95th percentile per-packet one-way delay: 158.820 ms

Loss rate: 0.16%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-07 17:19:16

End at: 2018-06-07 17:19:46

Local clock offset: 0.408 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-07 22:05:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.66 Mbit/s

95th percentile per-packet one-way delay: 144.756 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 173.41 Mbit/s

95th percentile per-packet one-way delay: 140.296 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 162.10 Mbit/s

95th percentile per-packet one-way delay: 125.686 ms

Loss rate: 0.86%

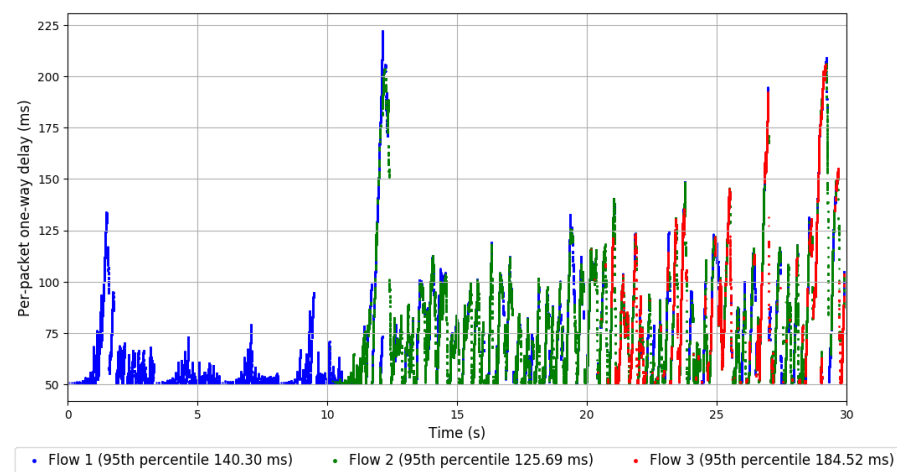
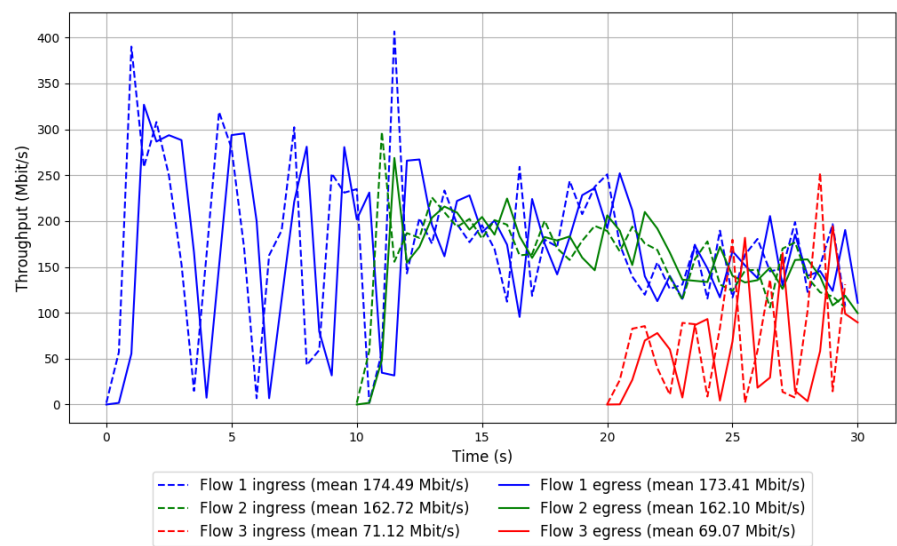
-- Flow 3:

Average throughput: 69.07 Mbit/s

95th percentile per-packet one-way delay: 184.520 ms

Loss rate: 4.49%

Run 3: Report of Verus — Data Link

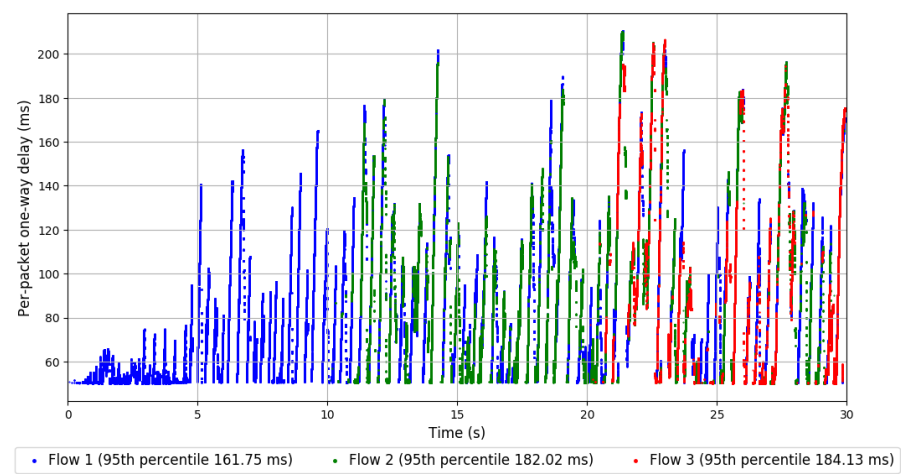
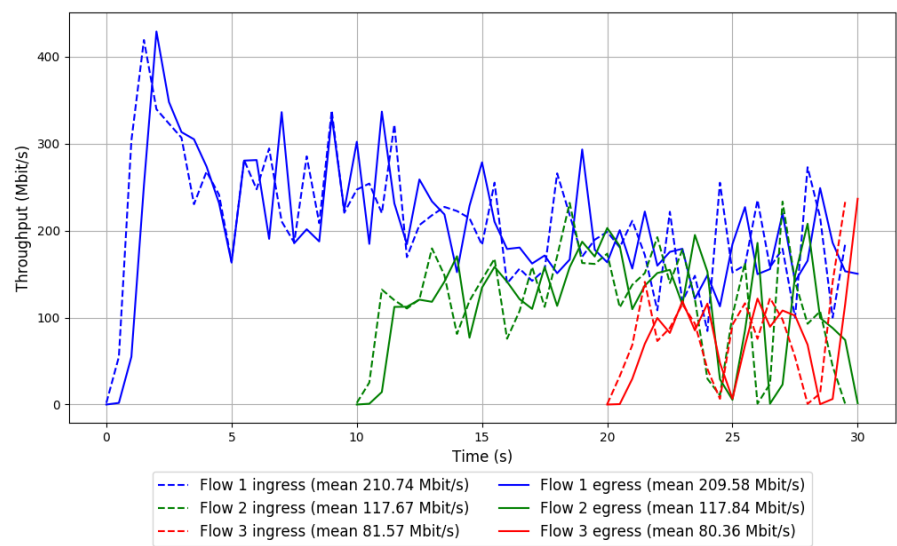


Run 4: Statistics of Verus

Start at: 2018-06-07 17:41:36
End at: 2018-06-07 17:42:06
Local clock offset: 0.021 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-06-07 22:06:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 314.15 Mbit/s
95th percentile per-packet one-way delay: 172.661 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 209.58 Mbit/s
95th percentile per-packet one-way delay: 161.745 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 117.84 Mbit/s
95th percentile per-packet one-way delay: 182.019 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 80.36 Mbit/s
95th percentile per-packet one-way delay: 184.132 ms
Loss rate: 2.00%

Run 4: Report of Verus — Data Link

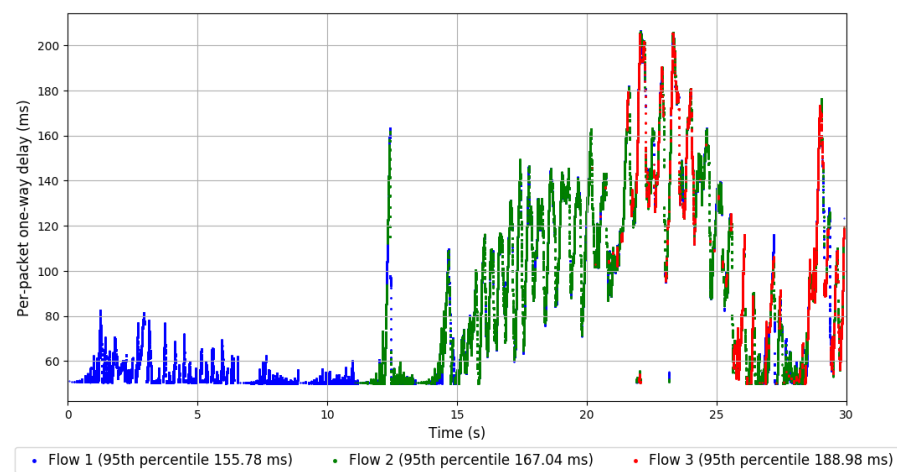
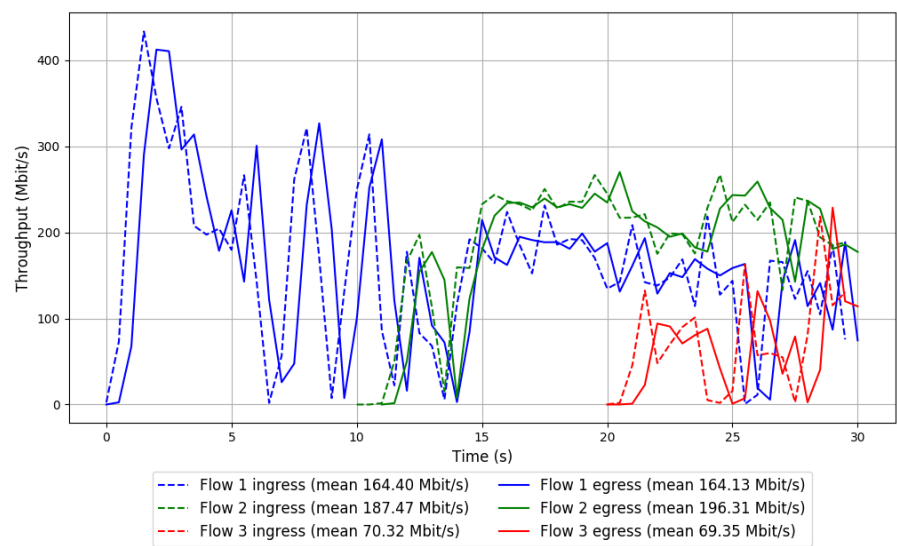


Run 5: Statistics of Verus

Start at: 2018-06-07 18:03:43
End at: 2018-06-07 18:04:13
Local clock offset: 0.12 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-06-07 22:06:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.64 Mbit/s
95th percentile per-packet one-way delay: 166.421 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 164.13 Mbit/s
95th percentile per-packet one-way delay: 155.785 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 196.31 Mbit/s
95th percentile per-packet one-way delay: 167.040 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 69.35 Mbit/s
95th percentile per-packet one-way delay: 188.981 ms
Loss rate: 3.30%

Run 5: Report of Verus — Data Link

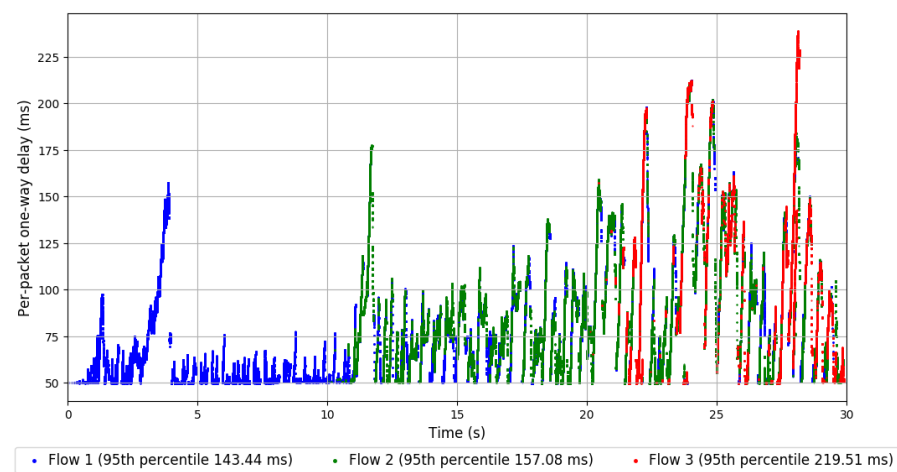
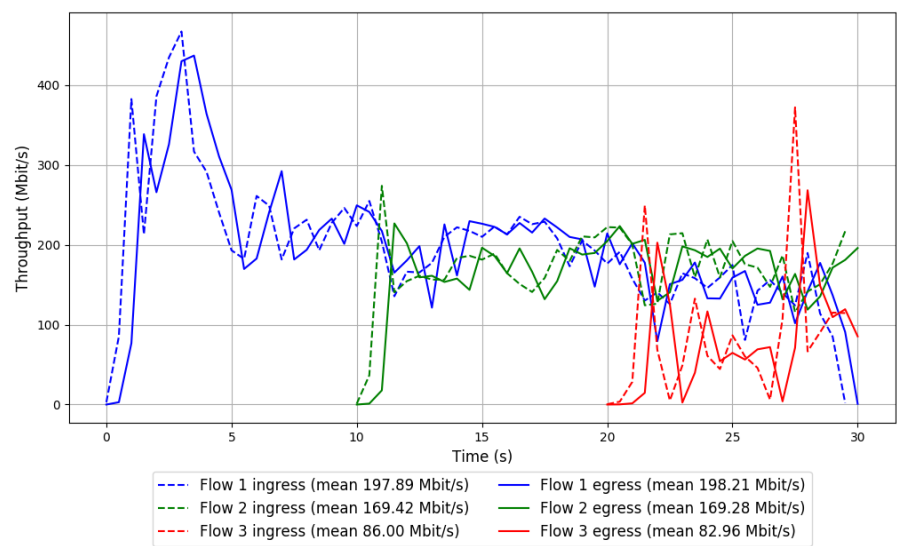


Run 6: Statistics of Verus

Start at: 2018-06-07 18:25:52
End at: 2018-06-07 18:26:22
Local clock offset: -0.199 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-07 22:07:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.63 Mbit/s
95th percentile per-packet one-way delay: 154.339 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 198.21 Mbit/s
95th percentile per-packet one-way delay: 143.438 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 169.28 Mbit/s
95th percentile per-packet one-way delay: 157.084 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 82.96 Mbit/s
95th percentile per-packet one-way delay: 219.506 ms
Loss rate: 4.76%

Run 6: Report of Verus — Data Link

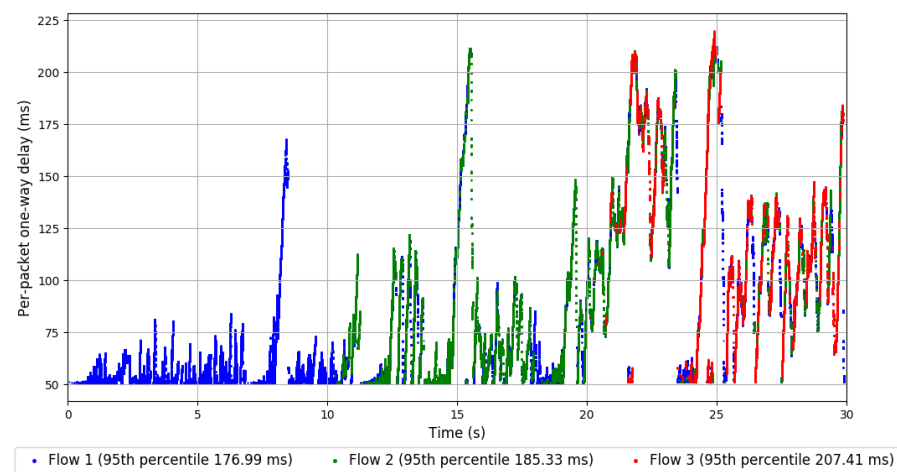
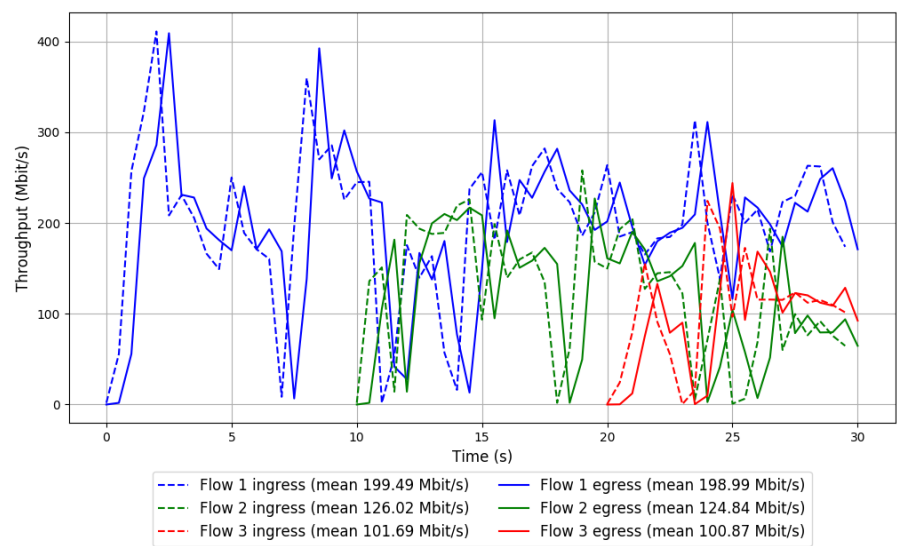


Run 7: Statistics of Verus

Start at: 2018-06-07 18:48:09
End at: 2018-06-07 18:48:39
Local clock offset: 0.623 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-07 22:07:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 314.39 Mbit/s
95th percentile per-packet one-way delay: 182.808 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 198.99 Mbit/s
95th percentile per-packet one-way delay: 176.989 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 124.84 Mbit/s
95th percentile per-packet one-way delay: 185.333 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 100.87 Mbit/s
95th percentile per-packet one-way delay: 207.409 ms
Loss rate: 2.72%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-07 19:10:23

End at: 2018-06-07 19:10:53

Local clock offset: 0.279 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-07 22:07:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.30 Mbit/s

95th percentile per-packet one-way delay: 147.564 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 204.75 Mbit/s

95th percentile per-packet one-way delay: 129.870 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 91.12 Mbit/s

95th percentile per-packet one-way delay: 187.916 ms

Loss rate: 1.16%

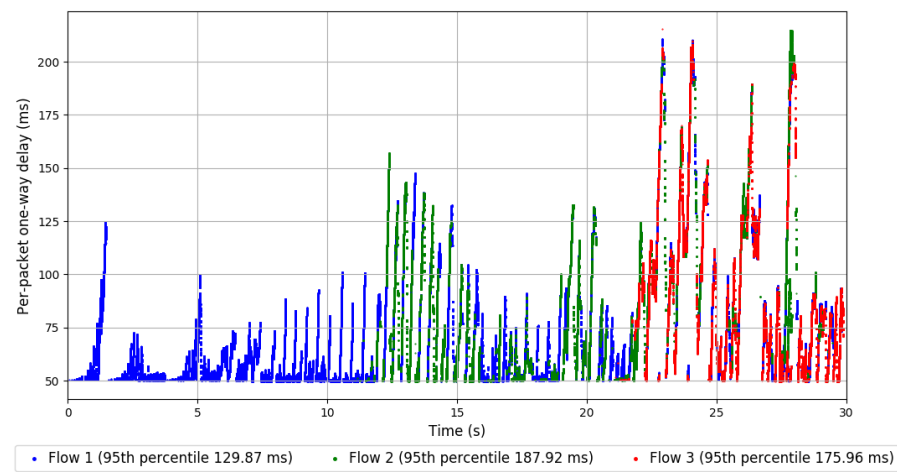
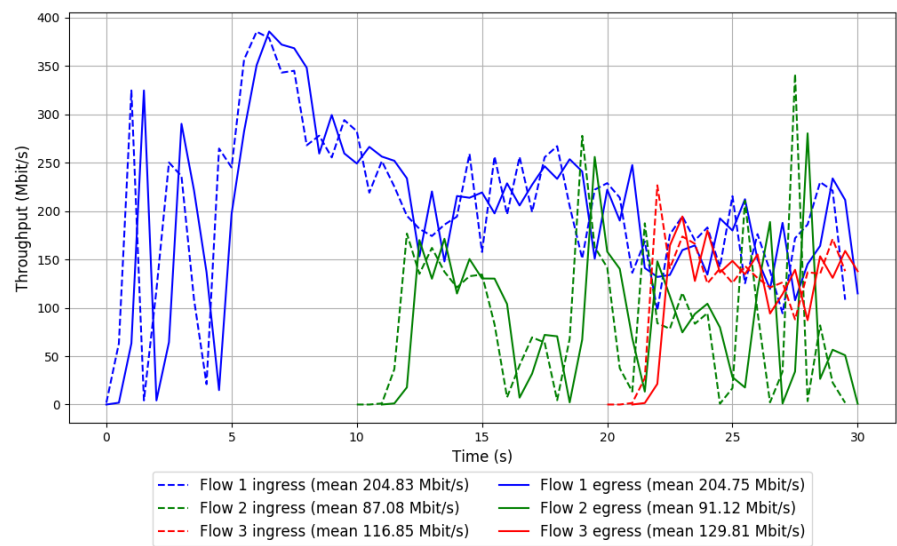
-- Flow 3:

Average throughput: 129.81 Mbit/s

95th percentile per-packet one-way delay: 175.956 ms

Loss rate: 1.66%

Run 8: Report of Verus — Data Link

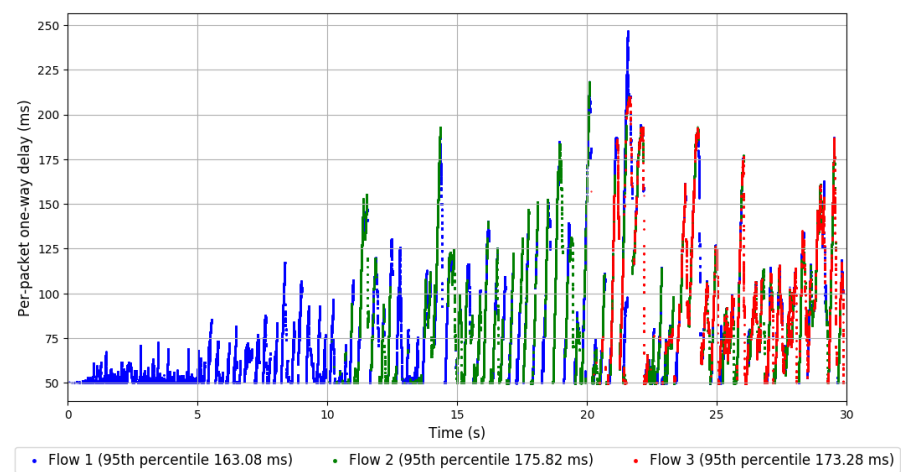
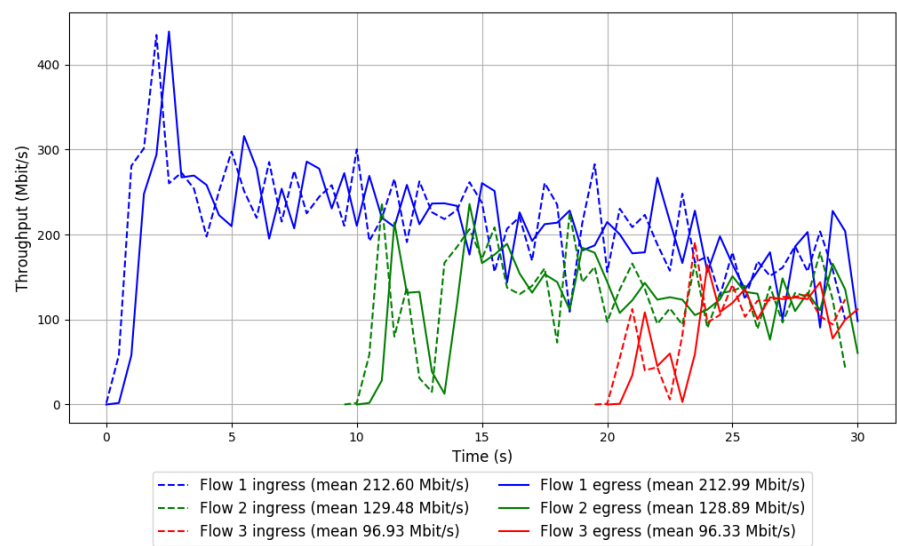


Run 9: Statistics of Verus

Start at: 2018-06-07 19:32:33
End at: 2018-06-07 19:33:03
Local clock offset: 0.32 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-06-07 22:10:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.54 Mbit/s
95th percentile per-packet one-way delay: 168.754 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 212.99 Mbit/s
95th percentile per-packet one-way delay: 163.079 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 128.89 Mbit/s
95th percentile per-packet one-way delay: 175.824 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 173.281 ms
Loss rate: 2.69%

Run 9: Report of Verus — Data Link

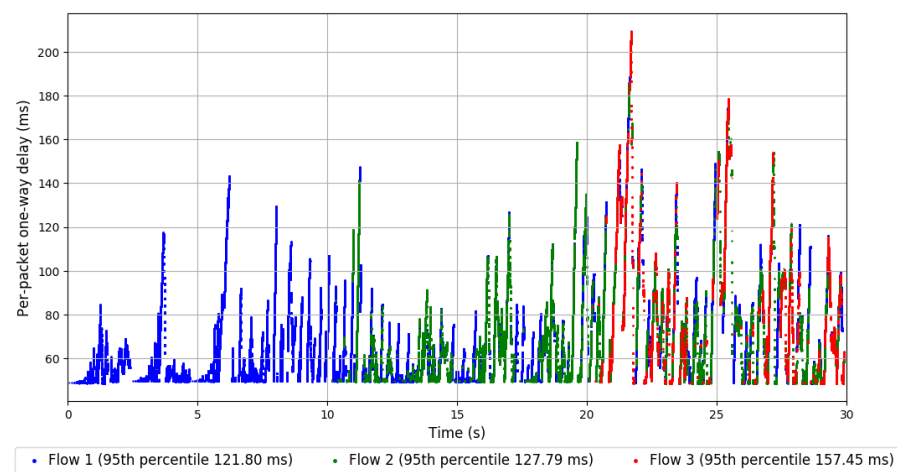
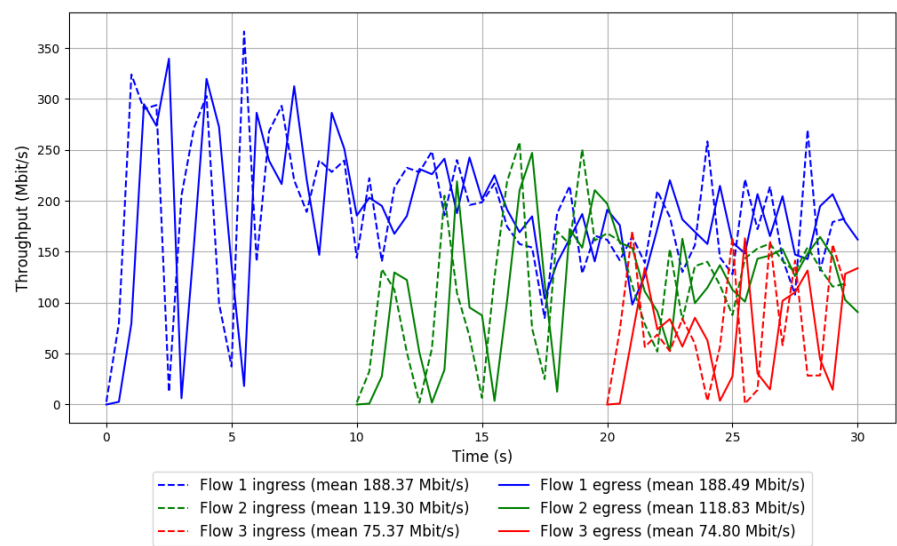


Run 10: Statistics of Verus

Start at: 2018-06-07 19:54:38
End at: 2018-06-07 19:55:08
Local clock offset: 0.054 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-07 22:10:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 292.02 Mbit/s
95th percentile per-packet one-way delay: 130.001 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 188.49 Mbit/s
95th percentile per-packet one-way delay: 121.801 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 118.83 Mbit/s
95th percentile per-packet one-way delay: 127.788 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 74.80 Mbit/s
95th percentile per-packet one-way delay: 157.448 ms
Loss rate: 1.75%

Run 10: Report of Verus — Data Link

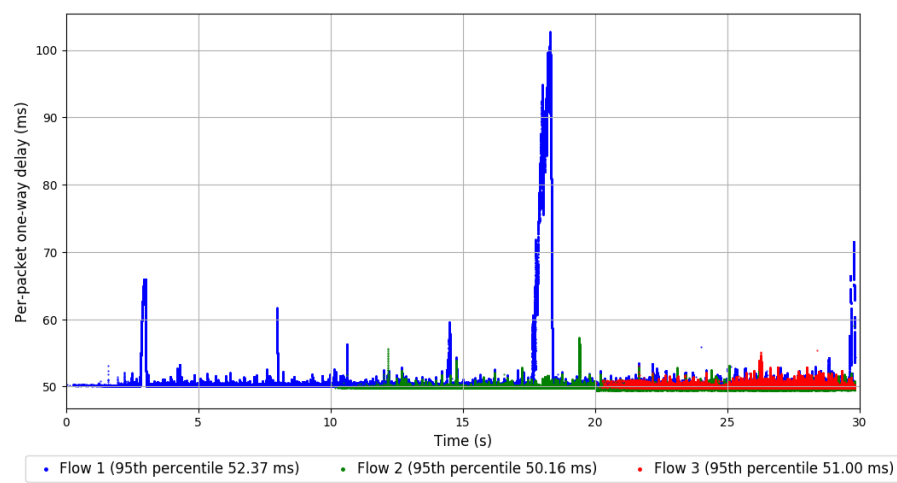
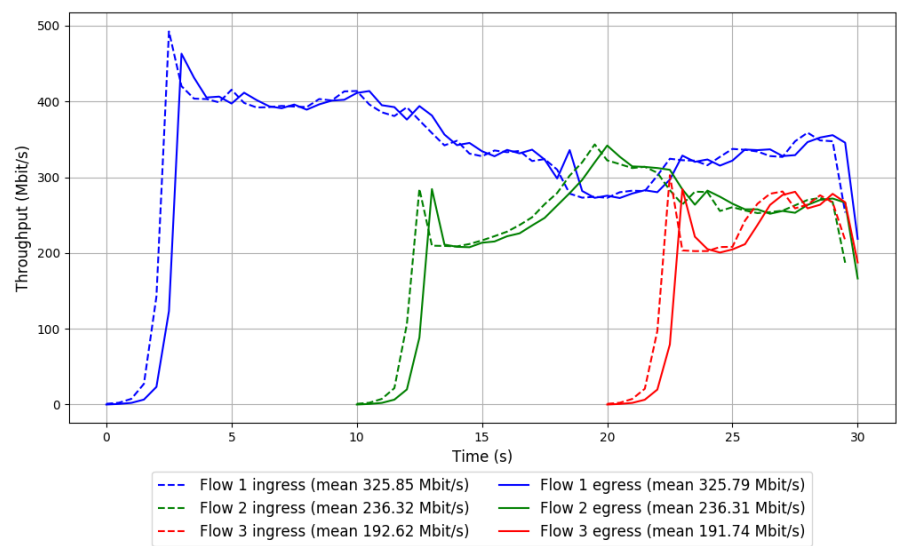


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-07 16:31:29
End at: 2018-06-07 16:31:59
Local clock offset: -0.049 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-07 22:15:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 545.63 Mbit/s
95th percentile per-packet one-way delay: 51.139 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 325.79 Mbit/s
95th percentile per-packet one-way delay: 52.374 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 236.31 Mbit/s
95th percentile per-packet one-way delay: 50.165 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 191.74 Mbit/s
95th percentile per-packet one-way delay: 51.000 ms
Loss rate: 1.48%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-07 16:53:34

End at: 2018-06-07 16:54:04

Local clock offset: -0.046 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-07 22:15:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 499.26 Mbit/s

95th percentile per-packet one-way delay: 51.245 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 293.81 Mbit/s

95th percentile per-packet one-way delay: 51.193 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 240.88 Mbit/s

95th percentile per-packet one-way delay: 50.923 ms

Loss rate: 0.66%

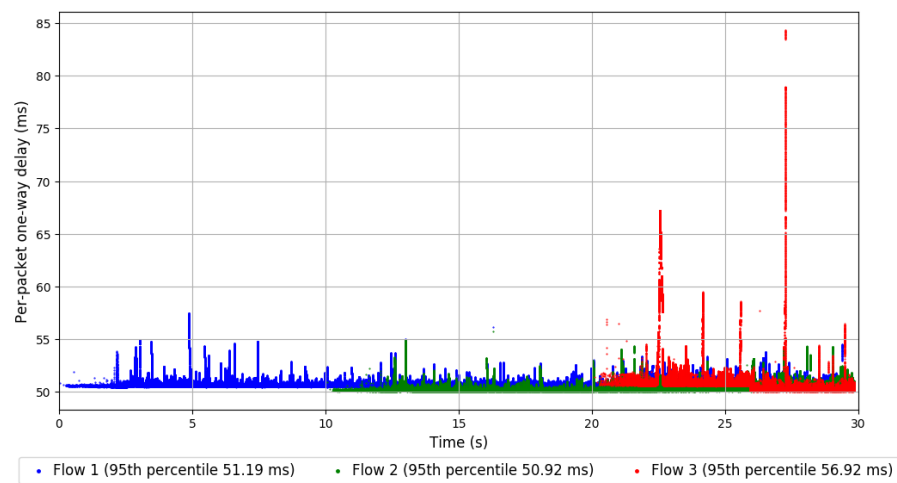
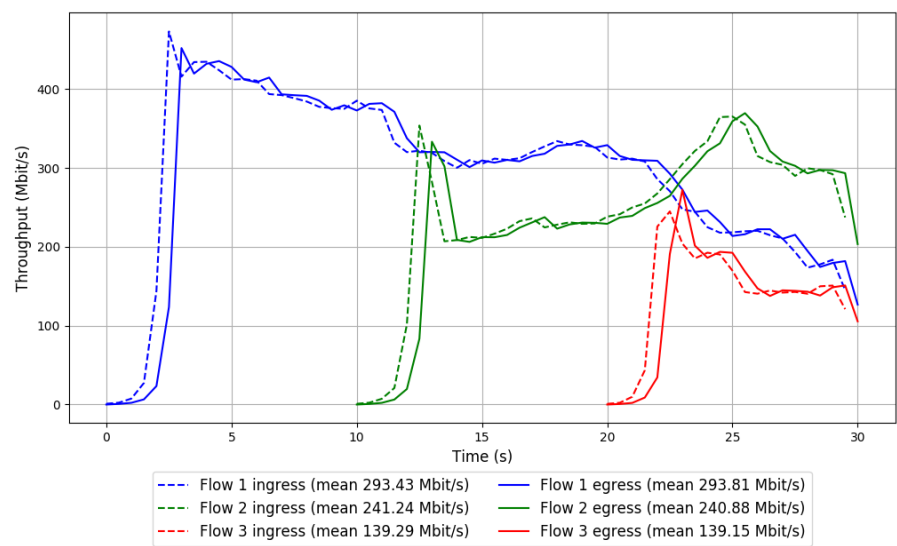
-- Flow 3:

Average throughput: 139.15 Mbit/s

95th percentile per-packet one-way delay: 56.916 ms

Loss rate: 1.16%

Run 2: Report of PCC-Vivace — Data Link

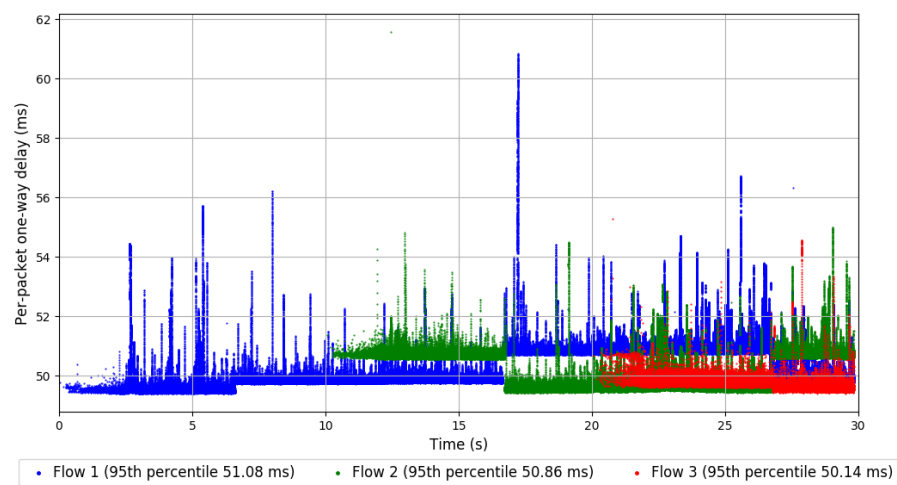
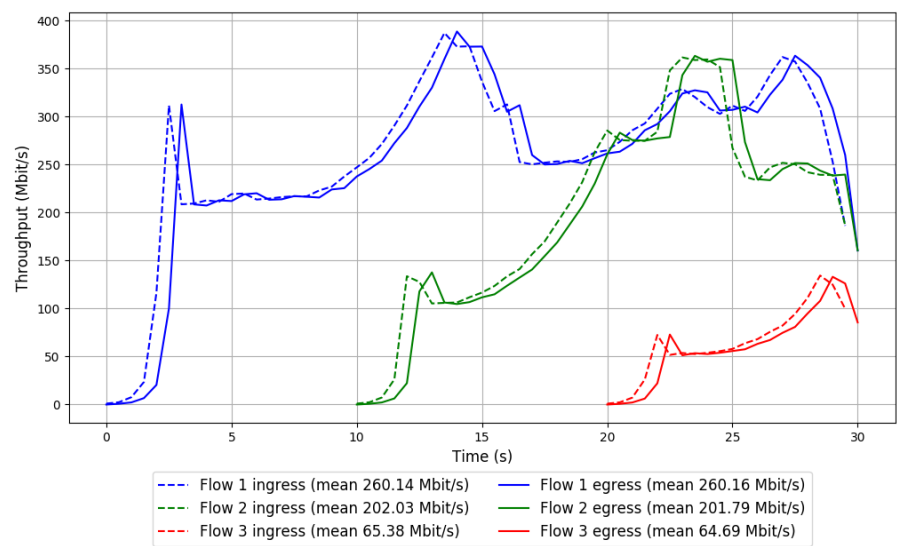


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-07 17:15:43
End at: 2018-06-07 17:16:13
Local clock offset: 0.002 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-07 22:15:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 415.33 Mbit/s
95th percentile per-packet one-way delay: 50.999 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 260.16 Mbit/s
95th percentile per-packet one-way delay: 51.083 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 201.79 Mbit/s
95th percentile per-packet one-way delay: 50.860 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 64.69 Mbit/s
95th percentile per-packet one-way delay: 50.139 ms
Loss rate: 2.07%

Run 3: Report of PCC-Vivace — Data Link

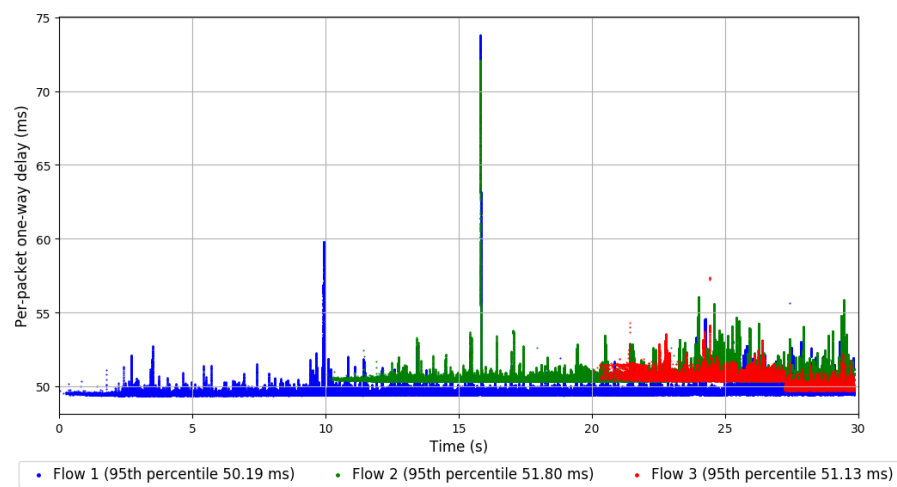
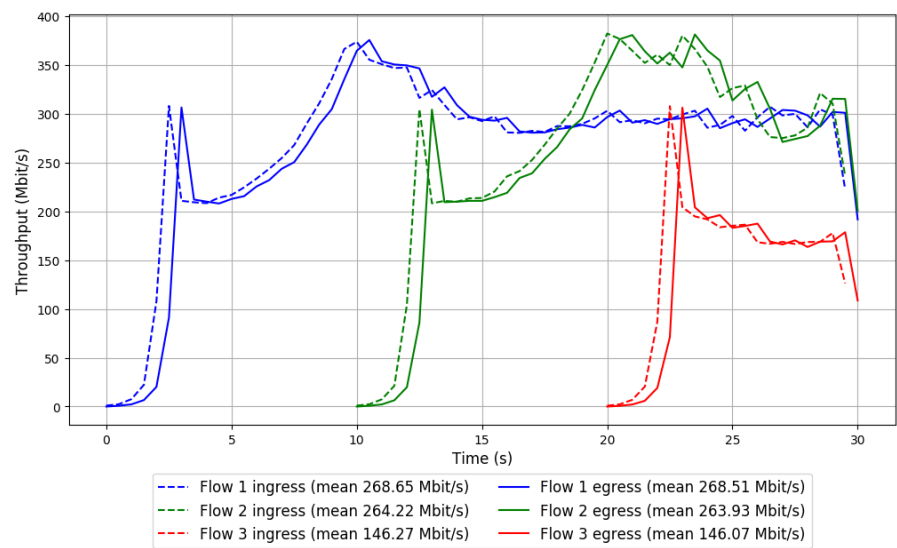


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-07 17:38:02
End at: 2018-06-07 17:38:32
Local clock offset: -0.007 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-07 22:15:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 491.54 Mbit/s
95th percentile per-packet one-way delay: 51.158 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 268.51 Mbit/s
95th percentile per-packet one-way delay: 50.194 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 263.93 Mbit/s
95th percentile per-packet one-way delay: 51.799 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 146.07 Mbit/s
95th percentile per-packet one-way delay: 51.126 ms
Loss rate: 1.20%

Run 4: Report of PCC-Vivace — Data Link

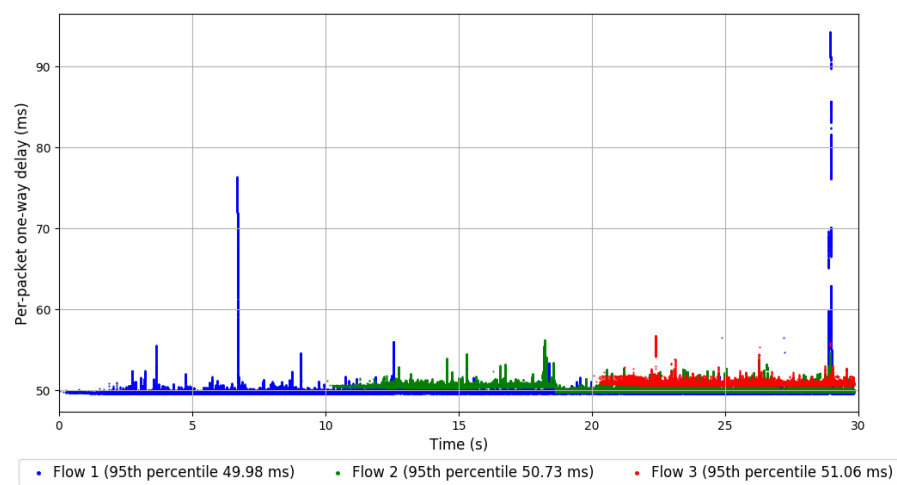
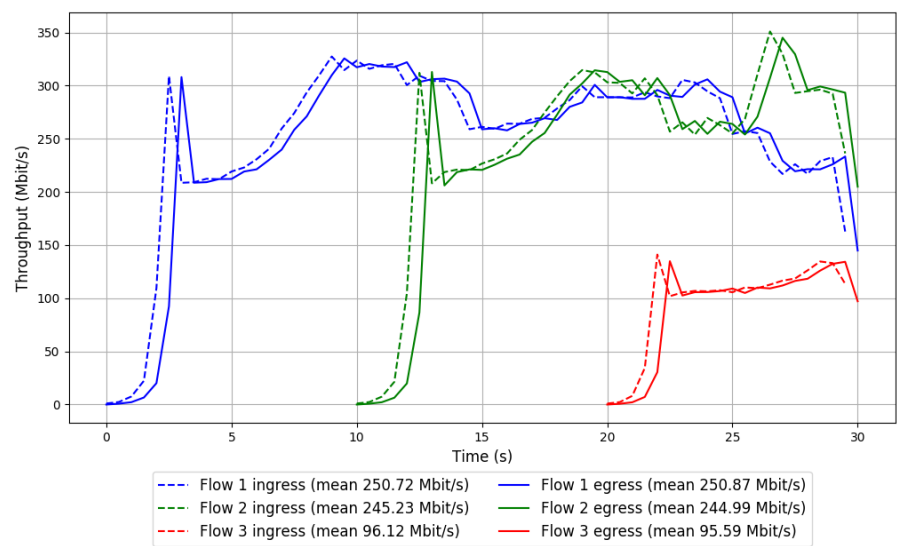


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-07 18:00:11
End at: 2018-06-07 18:00:41
Local clock offset: 0.022 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-07 22:15:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 444.88 Mbit/s
95th percentile per-packet one-way delay: 50.810 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 250.87 Mbit/s
95th percentile per-packet one-way delay: 49.983 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 244.99 Mbit/s
95th percentile per-packet one-way delay: 50.729 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 51.059 ms
Loss rate: 1.58%

Run 5: Report of PCC-Vivace — Data Link

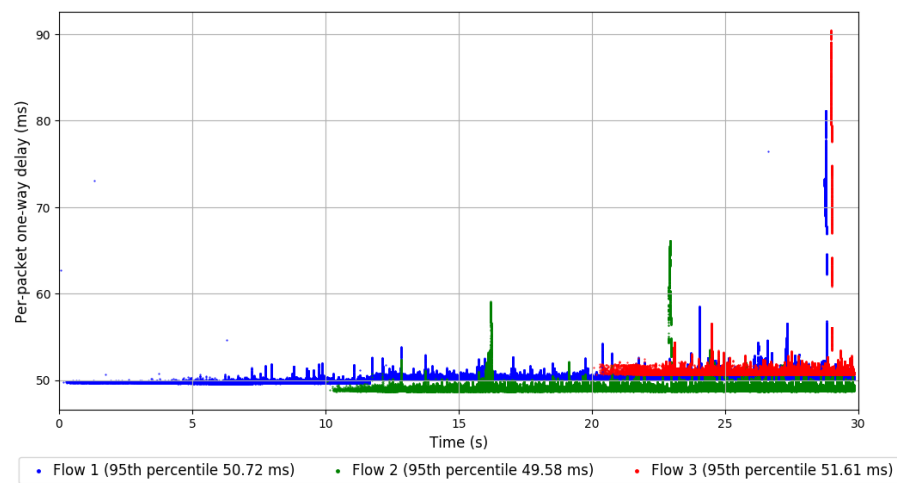
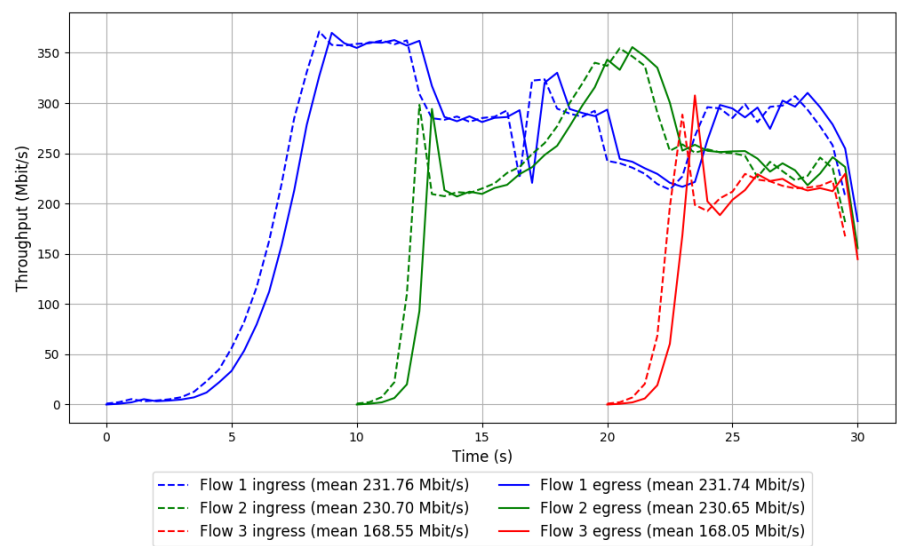


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-07 18:22:18
End at: 2018-06-07 18:22:48
Local clock offset: 0.167 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-06-07 22:15:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 440.04 Mbit/s
95th percentile per-packet one-way delay: 50.939 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 231.74 Mbit/s
95th percentile per-packet one-way delay: 50.722 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 230.65 Mbit/s
95th percentile per-packet one-way delay: 49.576 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 168.05 Mbit/s
95th percentile per-packet one-way delay: 51.612 ms
Loss rate: 1.32%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-07 18:44:29

End at: 2018-06-07 18:44:59

Local clock offset: 0.228 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-07 22:17:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 561.75 Mbit/s

95th percentile per-packet one-way delay: 51.328 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 323.45 Mbit/s

95th percentile per-packet one-way delay: 51.249 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 268.24 Mbit/s

95th percentile per-packet one-way delay: 51.570 ms

Loss rate: 0.36%

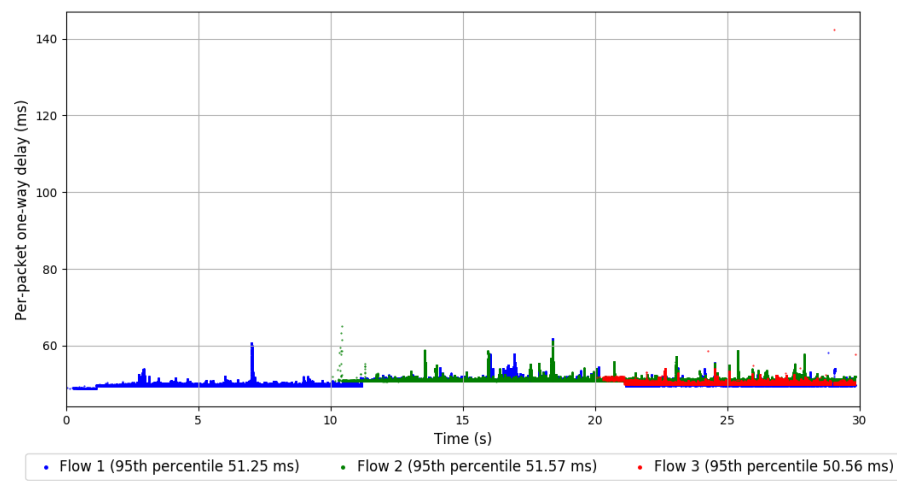
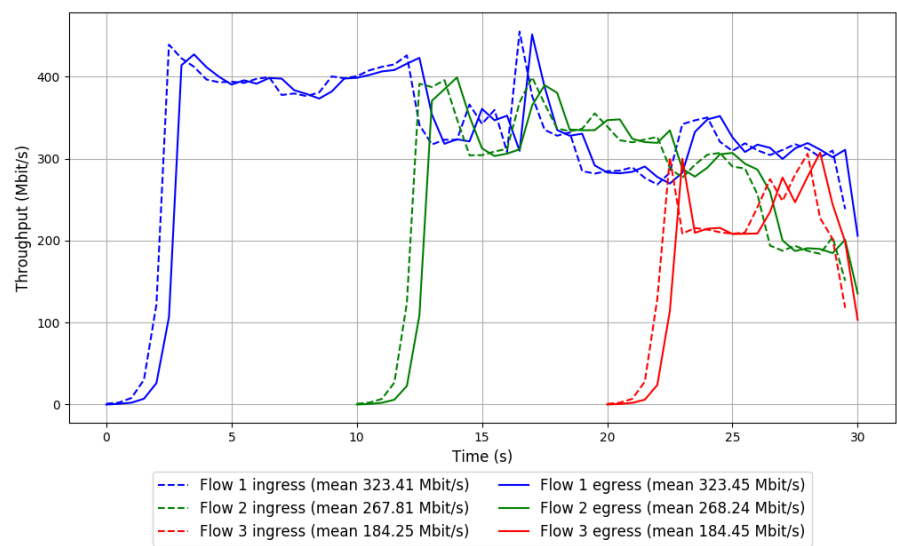
-- Flow 3:

Average throughput: 184.45 Mbit/s

95th percentile per-packet one-way delay: 50.560 ms

Loss rate: 0.86%

Run 7: Report of PCC-Vivace — Data Link

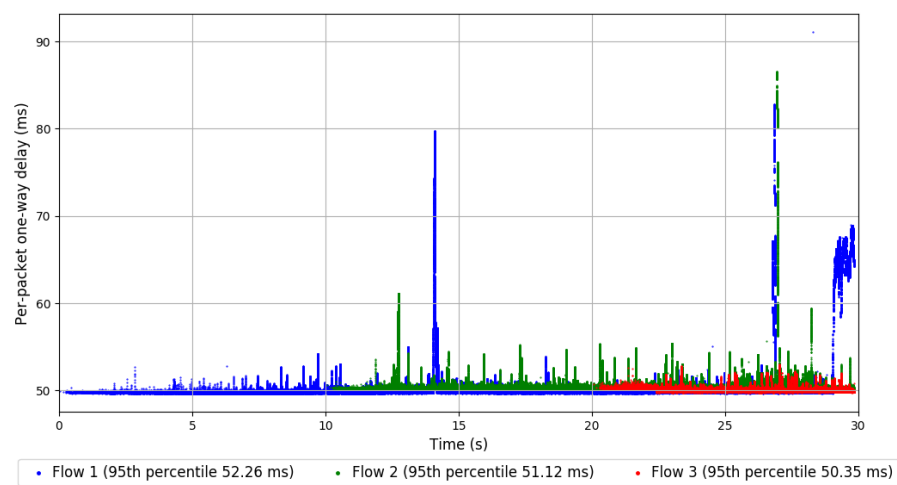
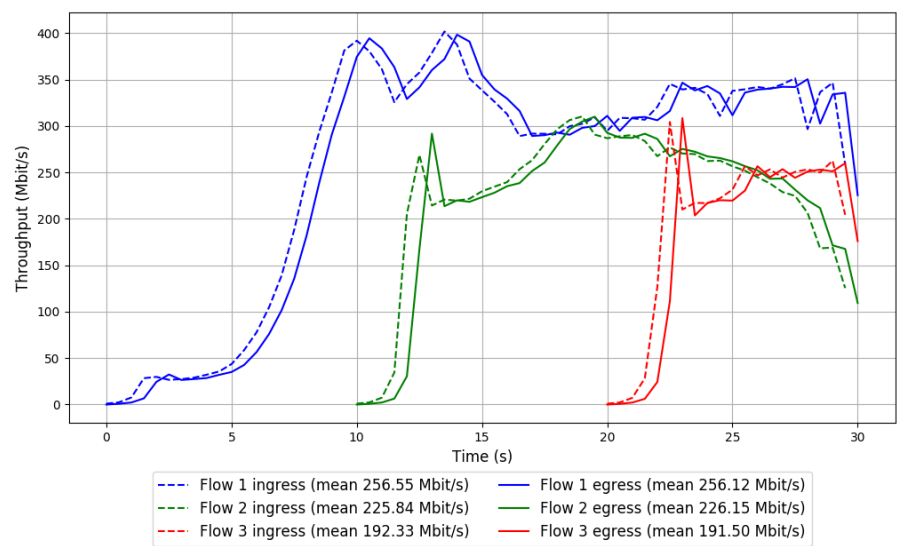


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-07 19:06:47
End at: 2018-06-07 19:07:17
Local clock offset: 0.268 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-07 22:17:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 468.97 Mbit/s
95th percentile per-packet one-way delay: 51.141 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 256.12 Mbit/s
95th percentile per-packet one-way delay: 52.259 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 226.15 Mbit/s
95th percentile per-packet one-way delay: 51.125 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 191.50 Mbit/s
95th percentile per-packet one-way delay: 50.355 ms
Loss rate: 1.46%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-07 19:28:58

End at: 2018-06-07 19:29:28

Local clock offset: 0.303 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-07 22:18:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 461.28 Mbit/s

95th percentile per-packet one-way delay: 50.538 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 285.25 Mbit/s

95th percentile per-packet one-way delay: 50.783 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 241.02 Mbit/s

95th percentile per-packet one-way delay: 49.936 ms

Loss rate: 0.56%

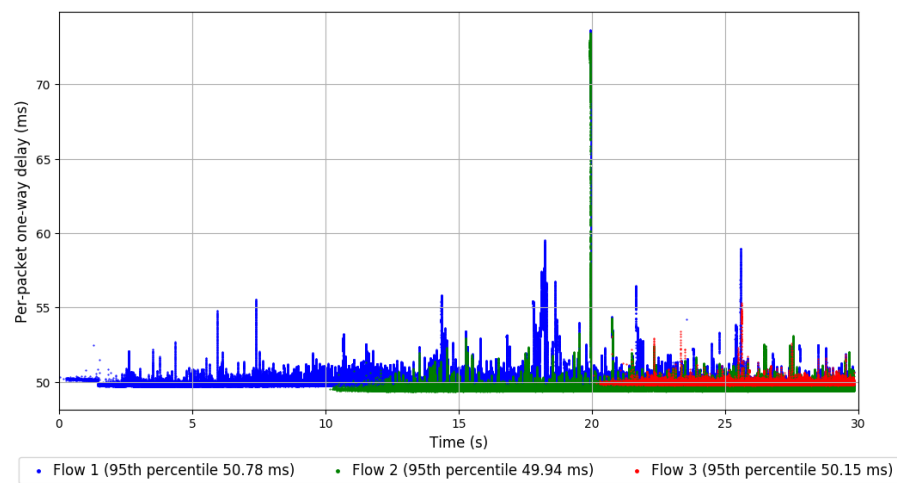
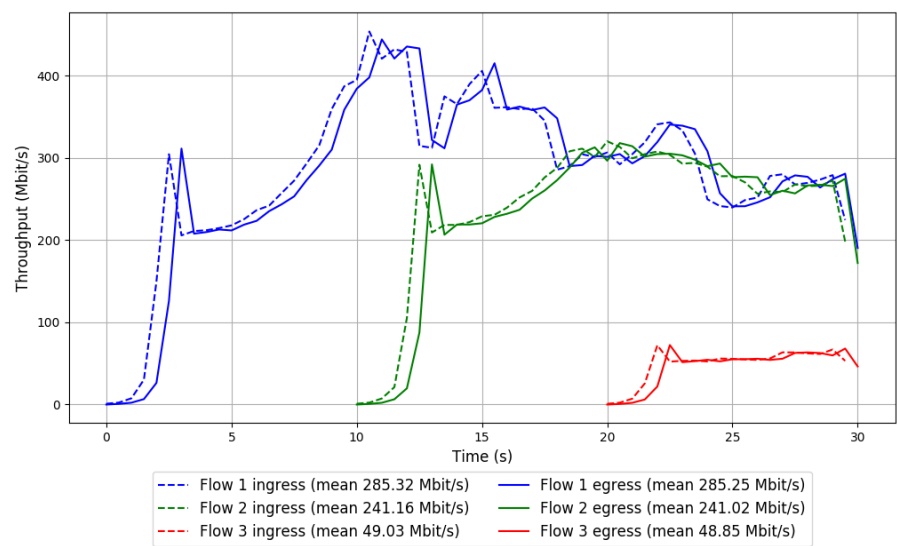
-- Flow 3:

Average throughput: 48.85 Mbit/s

95th percentile per-packet one-way delay: 50.146 ms

Loss rate: 1.38%

Run 9: Report of PCC-Vivace — Data Link

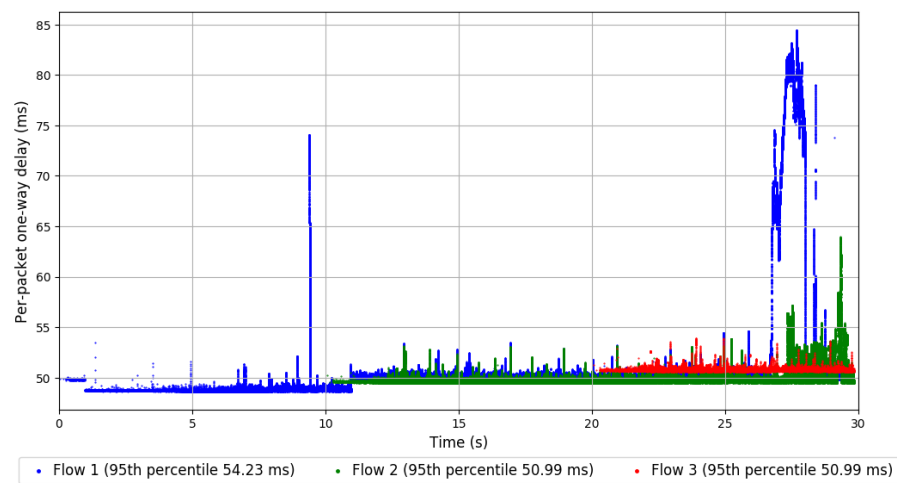
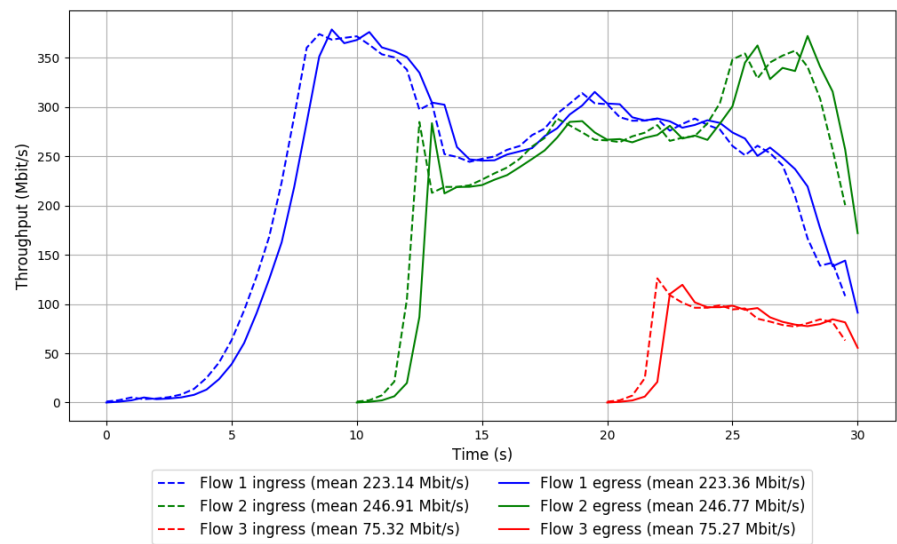


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-07 19:51:09
End at: 2018-06-07 19:51:39
Local clock offset: 0.109 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-07 22:18:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 411.83 Mbit/s
95th percentile per-packet one-way delay: 51.203 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 223.36 Mbit/s
95th percentile per-packet one-way delay: 54.234 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 246.77 Mbit/s
95th percentile per-packet one-way delay: 50.992 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 75.27 Mbit/s
95th percentile per-packet one-way delay: 50.987 ms
Loss rate: 1.09%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-06-07 16:38:01

End at: 2018-06-07 16:38:31

Local clock offset: 0.306 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-07 22:18:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.54 Mbit/s

95th percentile per-packet one-way delay: 50.734 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 1.73 Mbit/s

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

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 50.232 ms

Loss rate: 0.63%

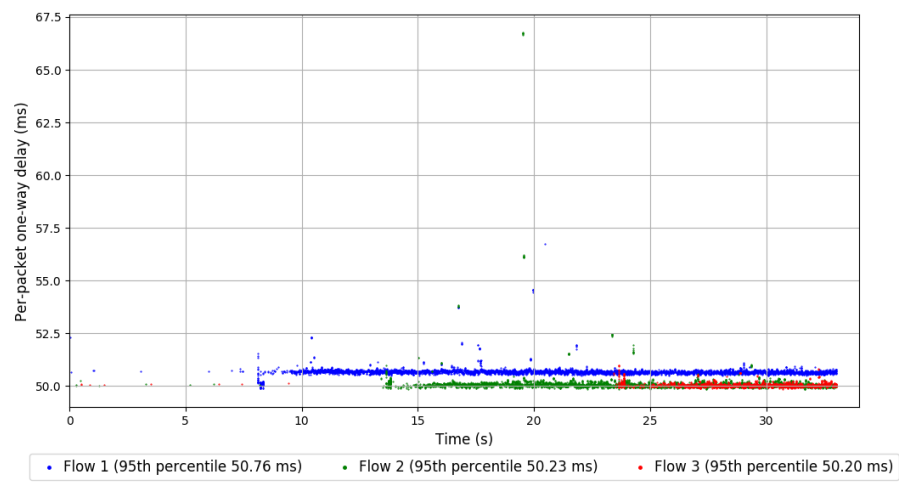
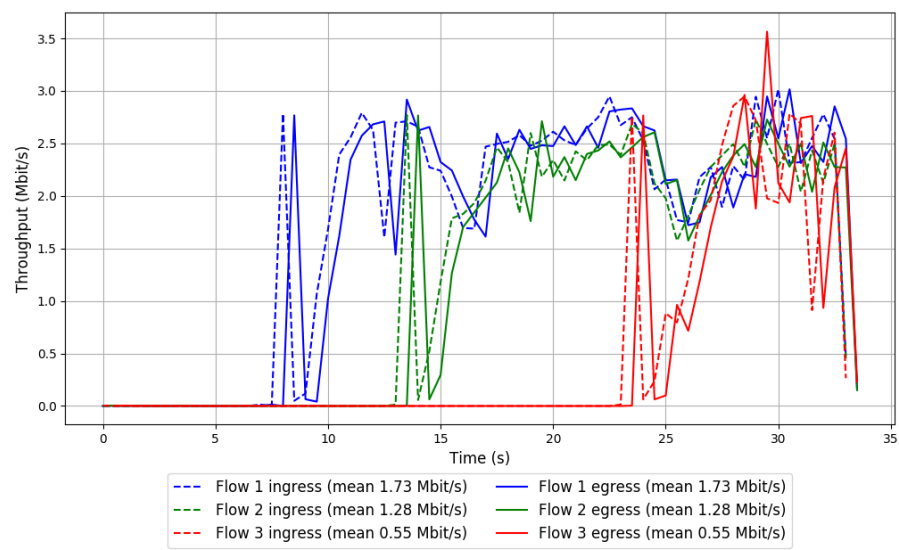
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 50.197 ms

Loss rate: 1.14%

Run 1: Report of WebRTC media — Data Link

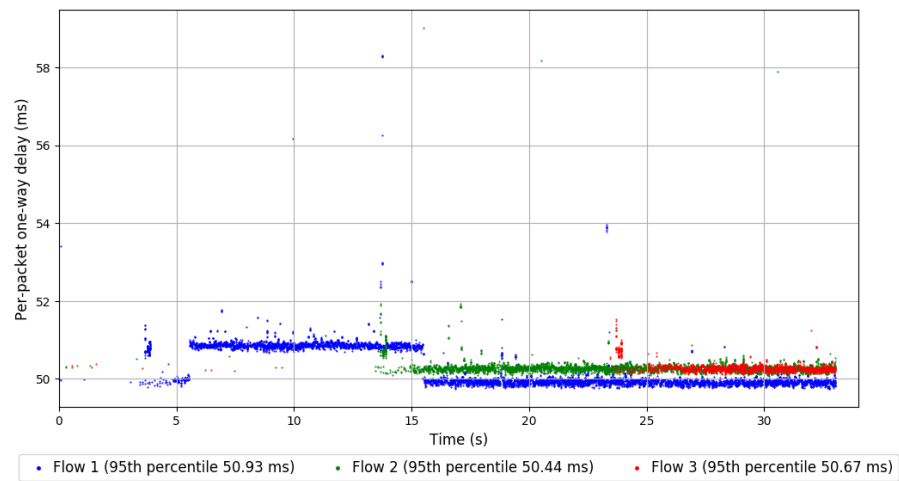
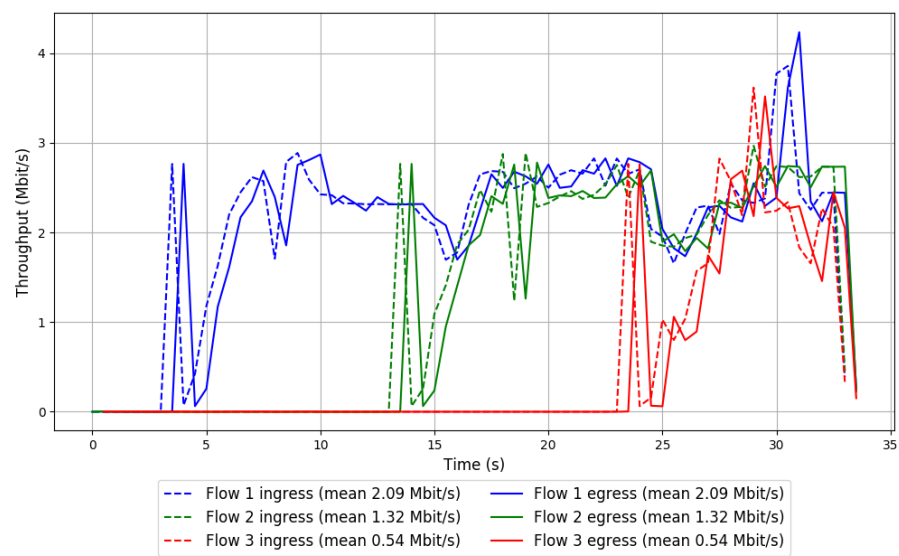


Run 2: Statistics of WebRTC media

Start at: 2018-06-07 17:00:07
End at: 2018-06-07 17:00:37
Local clock offset: -0.007 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-07 22:18:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 50.930 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 50.438 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 50.666 ms
Loss rate: 1.16%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-07 17:22:18

End at: 2018-06-07 17:22:48

Local clock offset: -0.357 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-07 22:18:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 50.543 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 49.887 ms

Loss rate: 0.54%

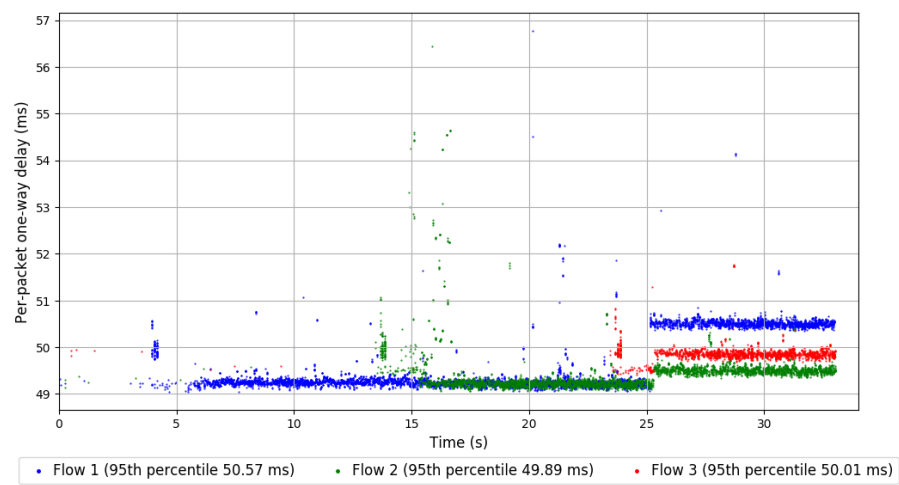
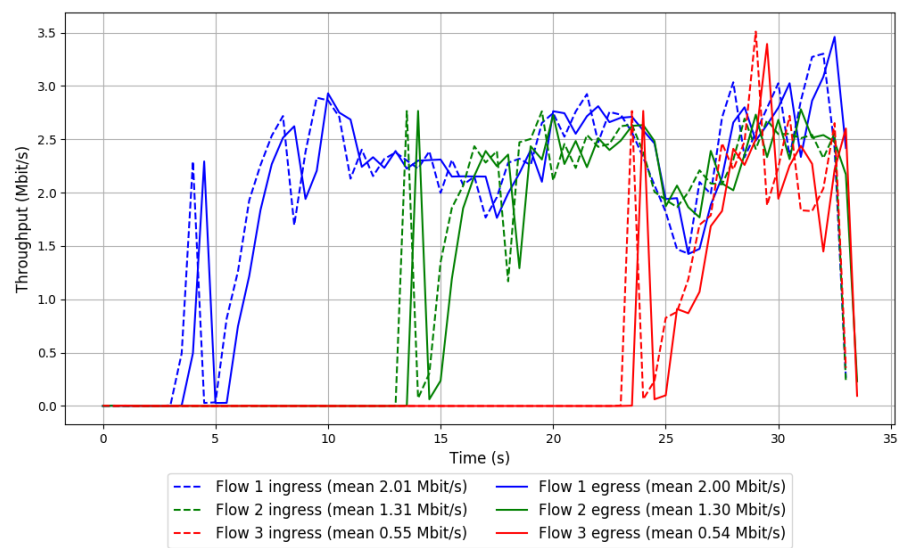
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.011 ms

Loss rate: 1.51%

Run 3: Report of WebRTC media — Data Link

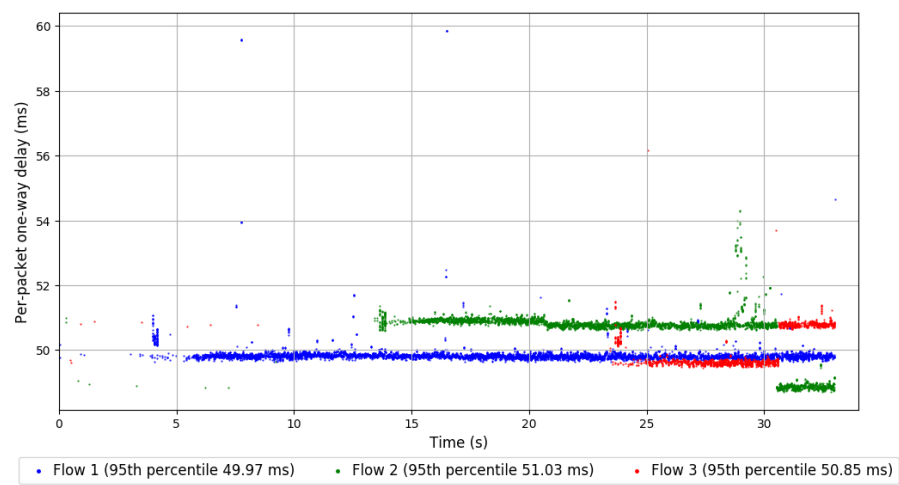
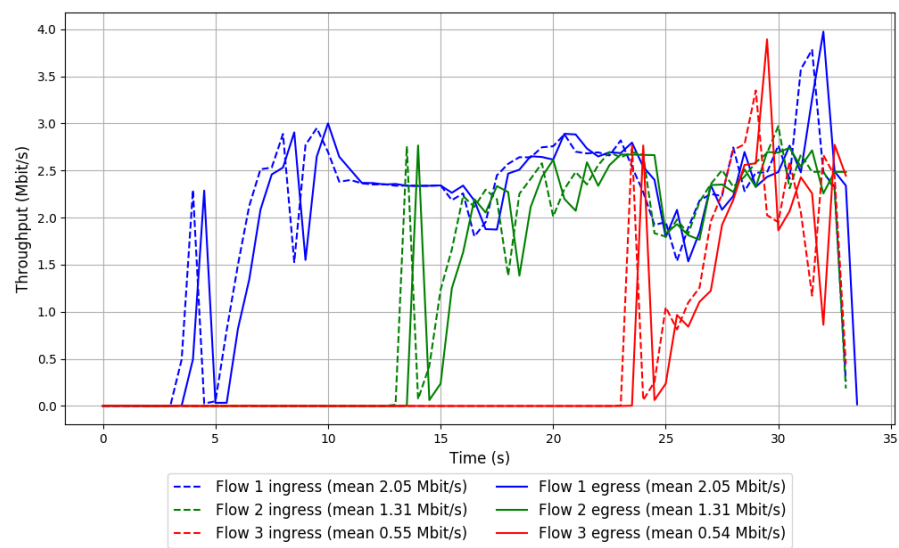


Run 4: Statistics of WebRTC media

Start at: 2018-06-07 17:44:32
End at: 2018-06-07 17:45:02
Local clock offset: 0.046 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-07 22:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 50.949 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 49.972 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 51.029 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 50.853 ms
Loss rate: 1.87%

Run 4: Report of WebRTC media — Data Link

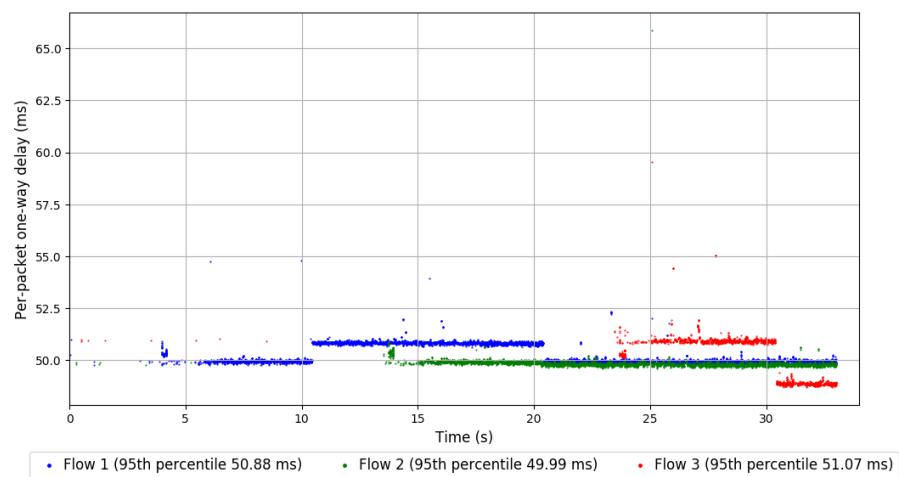
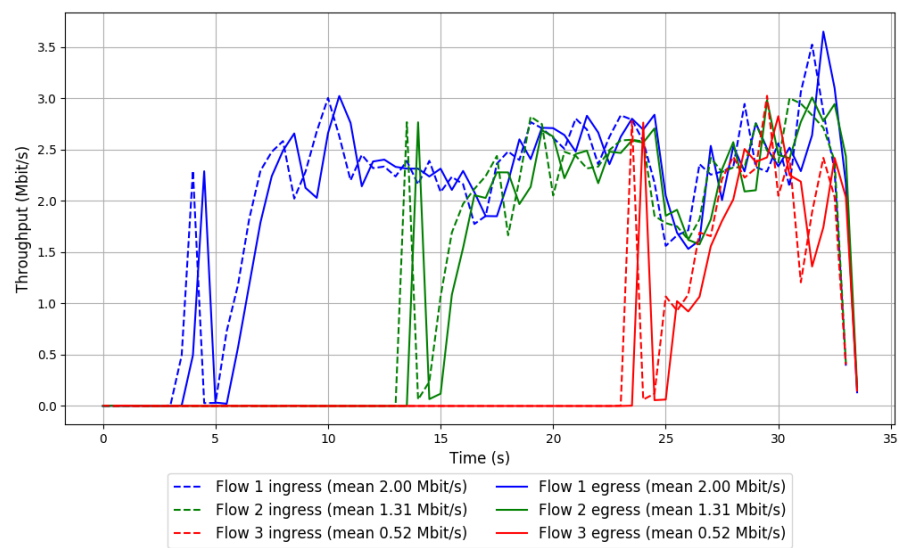


Run 5: Statistics of WebRTC media

Start at: 2018-06-07 18:06:42
End at: 2018-06-07 18:07:12
Local clock offset: 0.092 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-07 22:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 50.915 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 50.879 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 49.991 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 51.066 ms
Loss rate: 1.41%

Run 5: Report of WebRTC media — Data Link

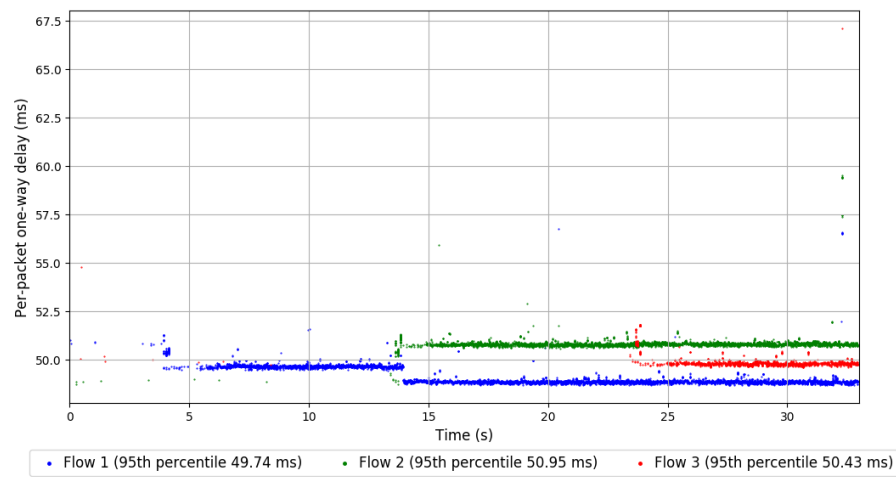
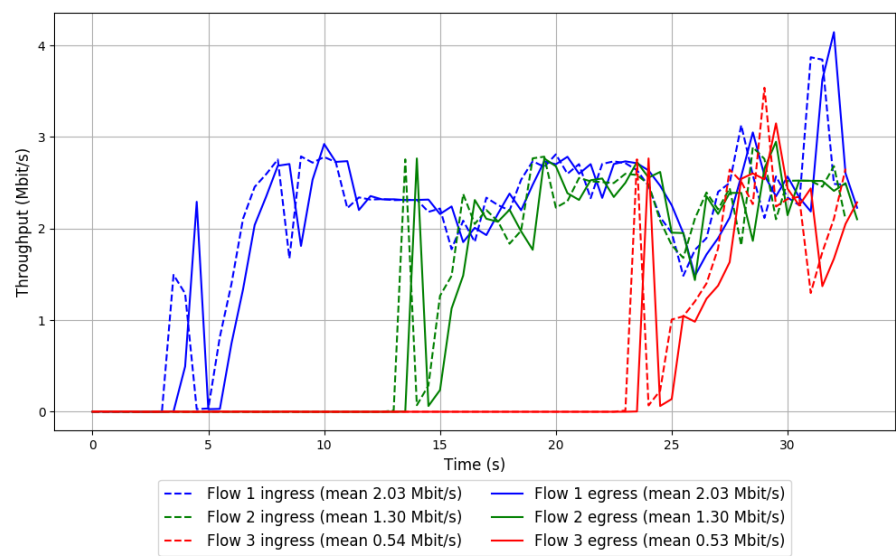


Run 6: Statistics of WebRTC media

Start at: 2018-06-07 18:28:49
End at: 2018-06-07 18:29:19
Local clock offset: 0.21 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-07 22:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 50.882 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 49.741 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 50.952 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 50.429 ms
Loss rate: 1.69%

Run 6: Report of WebRTC media — Data Link

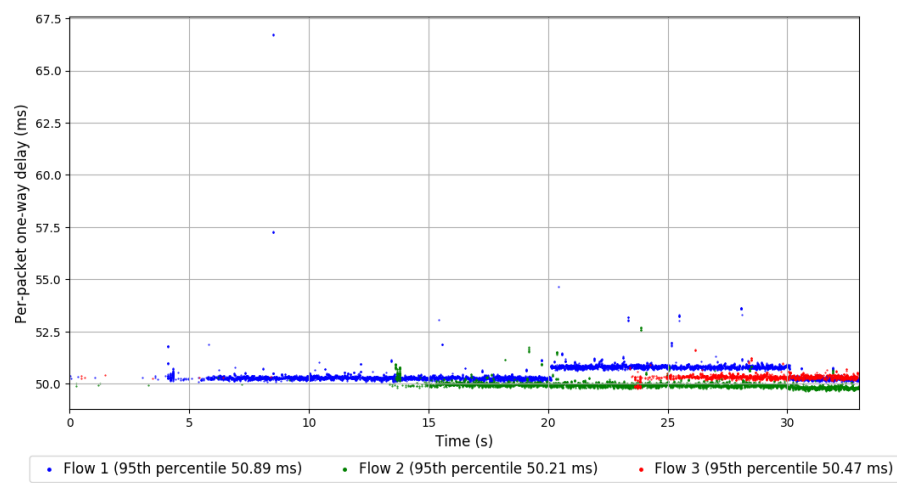
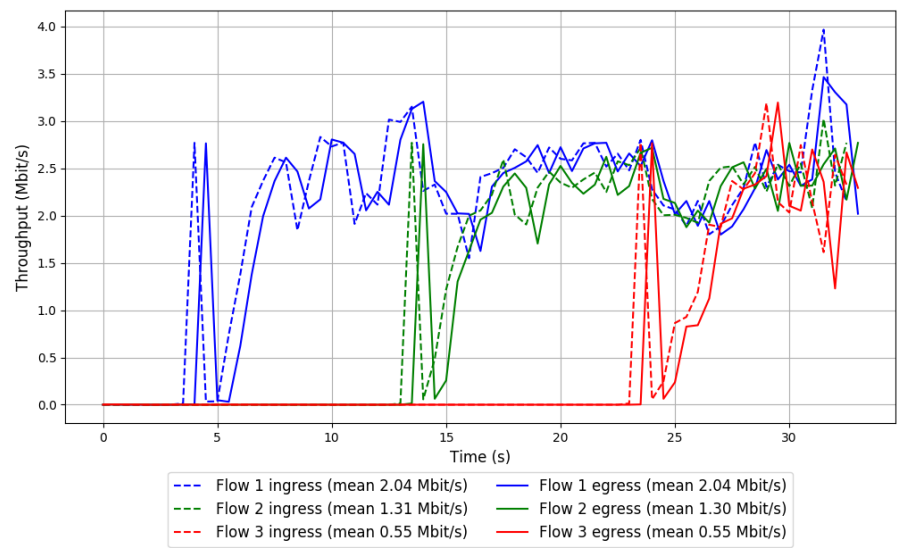


Run 7: Statistics of WebRTC media

Start at: 2018-06-07 18:51:13
End at: 2018-06-07 18:51:43
Local clock offset: 0.246 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-07 22:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 50.856 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.890 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 50.207 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 50.471 ms
Loss rate: 1.15%

Run 7: Report of WebRTC media — Data Link

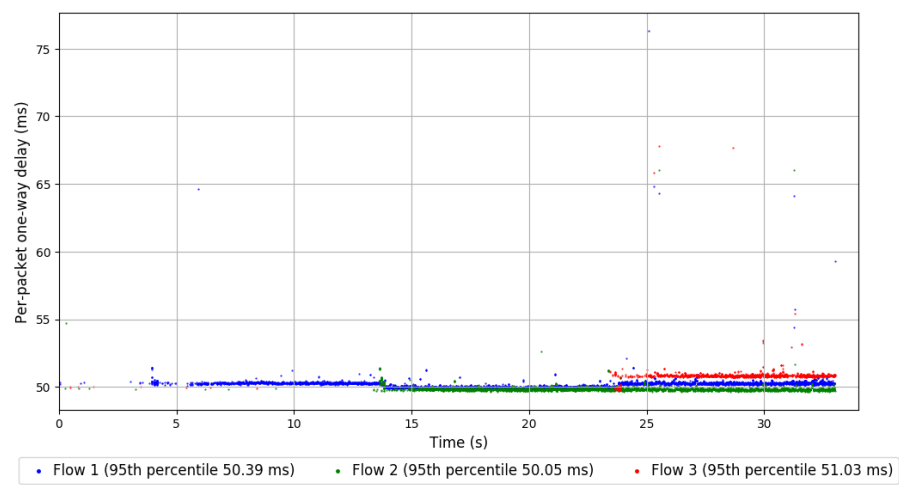
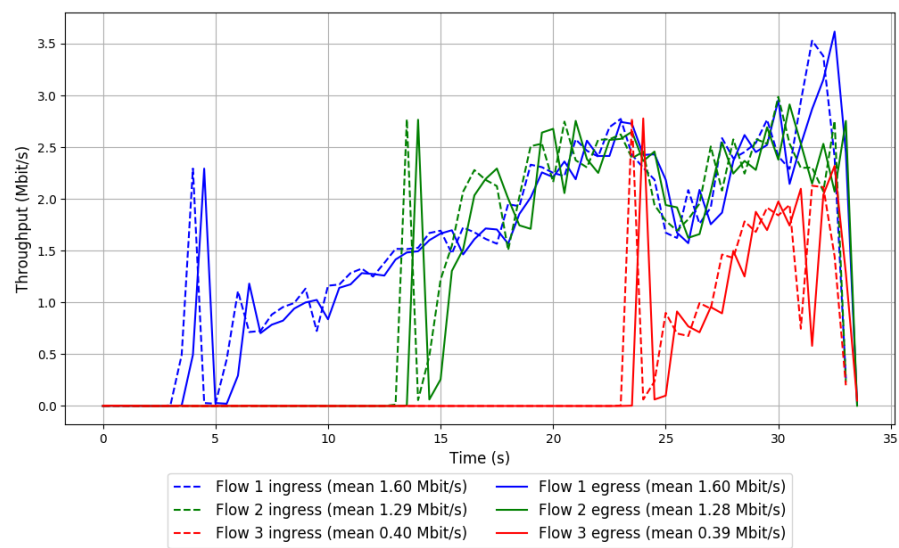


Run 8: Statistics of WebRTC media

Start at: 2018-06-07 19:13:19
End at: 2018-06-07 19:13:49
Local clock offset: 0.282 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-07 22:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 50.394 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 50.047 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 51.026 ms
Loss rate: 1.46%

Run 8: Report of WebRTC media — Data Link

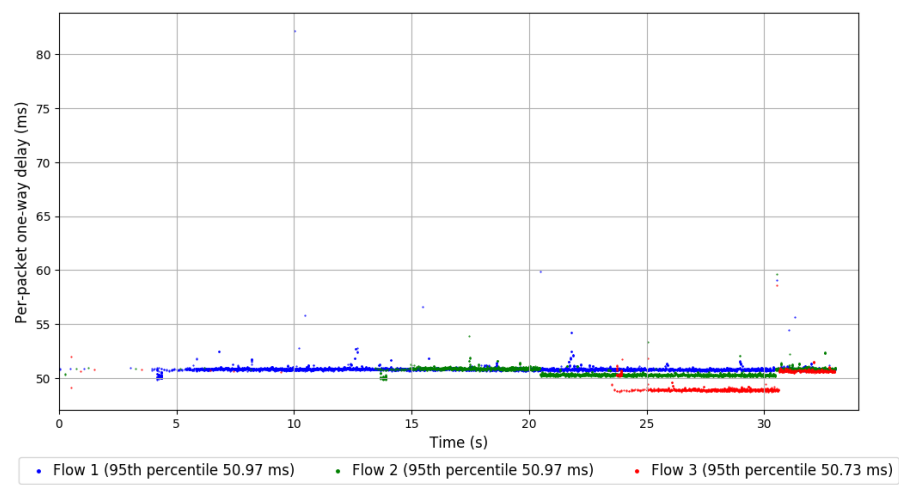
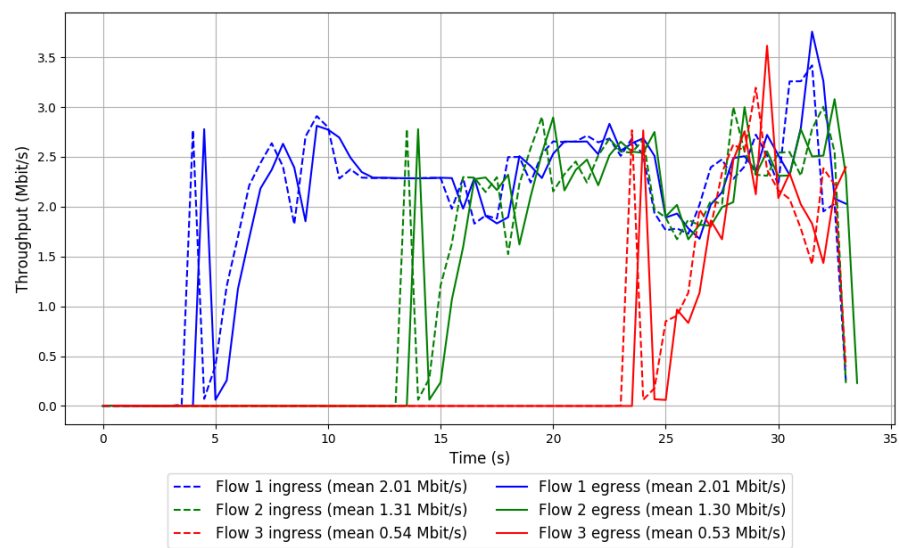


Run 9: Statistics of WebRTC media

Start at: 2018-06-07 19:35:32
End at: 2018-06-07 19:36:02
Local clock offset: 0.315 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-07 22:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 50.957 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 50.965 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 50.971 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 50.727 ms
Loss rate: 1.76%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-07 19:57:34
End at: 2018-06-07 19:58:04
Local clock offset: 0.019 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-06-07 22:18:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 49.855 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 50.887 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 49.604 ms
Loss rate: 1.27%

Run 10: Report of WebRTC media — Data Link

