

Pantheon Report

Generated at 2017-09-22 13:48:55 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

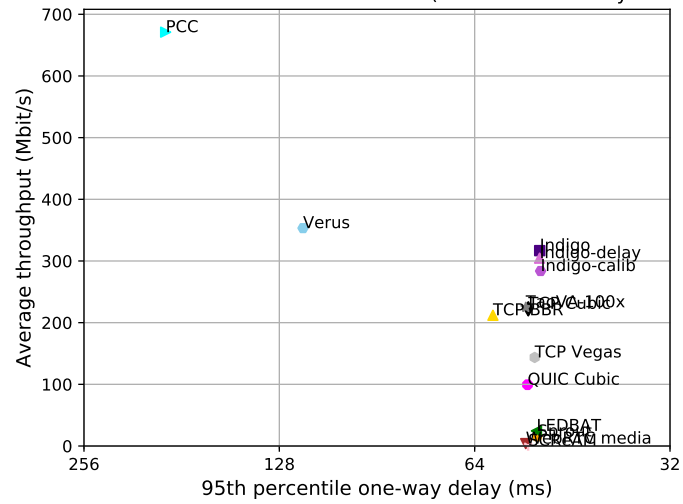
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

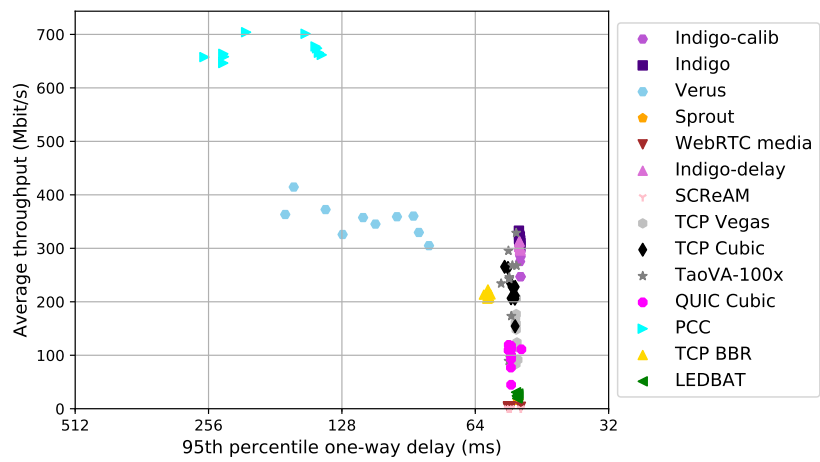
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Sydney Ethernet to GCE Tokyo Ethernet, 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 | 107.24 | 105.38 | 105.12 | 59.62 | 60.39 | 60.25 | 0.01 | 0.00 | 0.00 |
| TCP Cubic | 10 | 123.98 | 108.06 | 80.22 | 52.80 | 52.83 | 52.70 | 0.00 | 0.01 | 0.03 |
| LEDBAT | 10 | 12.94 | 12.71 | 9.48 | 51.37 | 51.40 | 51.39 | 0.07 | 0.03 | 0.04 |
| PCC | 10 | 589.14 | 103.50 | 40.51 | 195.75 | 148.31 | 145.94 | 3.02 | 1.73 | 1.98 |
| QUIC Cubic | 10 | 54.26 | 48.57 | 39.65 | 52.42 | 52.20 | 51.59 | 0.00 | 0.00 | 0.00 |
| SCReAM | 10 | 0.21 | 0.21 | 0.22 | 51.73 | 51.87 | 51.49 | 0.00 | 0.00 | 0.00 |
| WebRTC media | 10 | 2.00 | 1.41 | 0.51 | 51.72 | 52.82 | 51.68 | 0.00 | 0.00 | 0.01 |
| Sprout | 10 | 7.88 | 7.75 | 7.49 | 51.53 | 51.47 | 51.71 | 0.05 | 0.04 | 0.02 |
| TaoVA-100x | 10 | 137.06 | 111.51 | 147.54 | 52.68 | 52.65 | 53.83 | 0.00 | 0.00 | 0.00 |
| TCP Vegas | 10 | 78.19 | 68.65 | 59.60 | 51.67 | 51.56 | 52.23 | 0.00 | 0.01 | 0.04 |
| Verus | 10 | 211.10 | 158.35 | 114.81 | 109.82 | 108.76 | 118.45 | 0.26 | 0.12 | 0.27 |
| Indigo | 10 | 170.28 | 157.07 | 130.95 | 50.69 | 50.93 | 50.97 | 0.00 | 0.00 | 0.00 |
| Indigo-calib | 10 | 147.60 | 143.46 | 126.65 | 50.55 | 50.76 | 50.78 | 0.00 | 0.00 | 0.00 |
| Indigo-delay | 10 | 160.22 | 153.12 | 130.34 | 50.71 | 50.96 | 50.94 | 0.00 | 0.00 | 0.00 |

Run 1: Statistics of TCP BBR

Start at: 2017-09-22 09:20:11

End at: 2017-09-22 09:20:41

Below is generated by plot.py at 2017-09-22 12:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 210.22 Mbit/s

95th percentile per-packet one-way delay: 60.026 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 104.64 Mbit/s

95th percentile per-packet one-way delay: 59.116 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 106.25 Mbit/s

95th percentile per-packet one-way delay: 60.679 ms

Loss rate: 0.01%

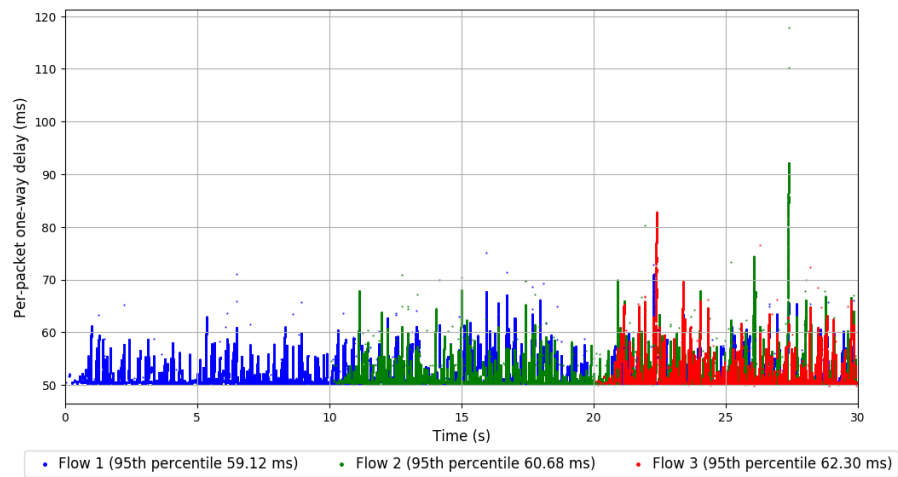
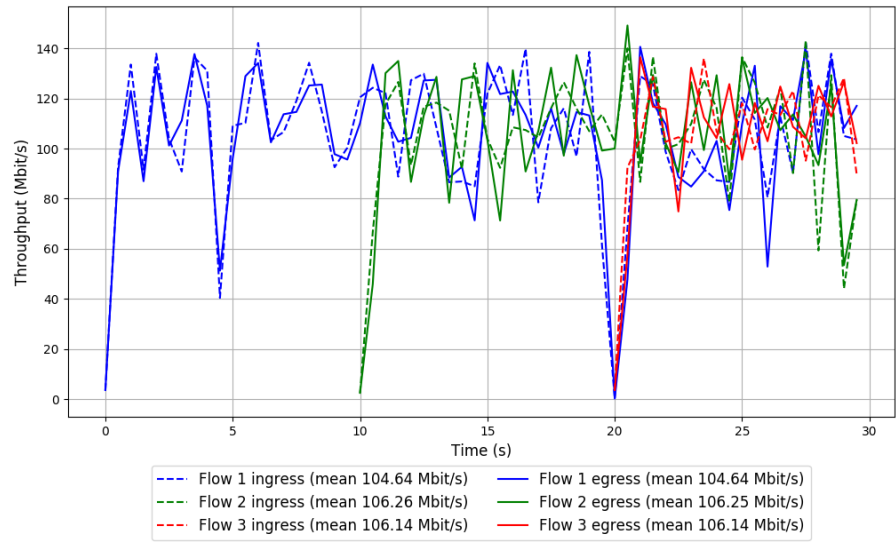
-- Flow 3:

Average throughput: 106.14 Mbit/s

95th percentile per-packet one-way delay: 62.295 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-22 09:32:31

End at: 2017-09-22 09:33:01

Below is generated by plot.py at 2017-09-22 12:44:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.01 Mbit/s

95th percentile per-packet one-way delay: 60.155 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.55 Mbit/s

95th percentile per-packet one-way delay: 59.829 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.58 Mbit/s

95th percentile per-packet one-way delay: 60.339 ms

Loss rate: 0.00%

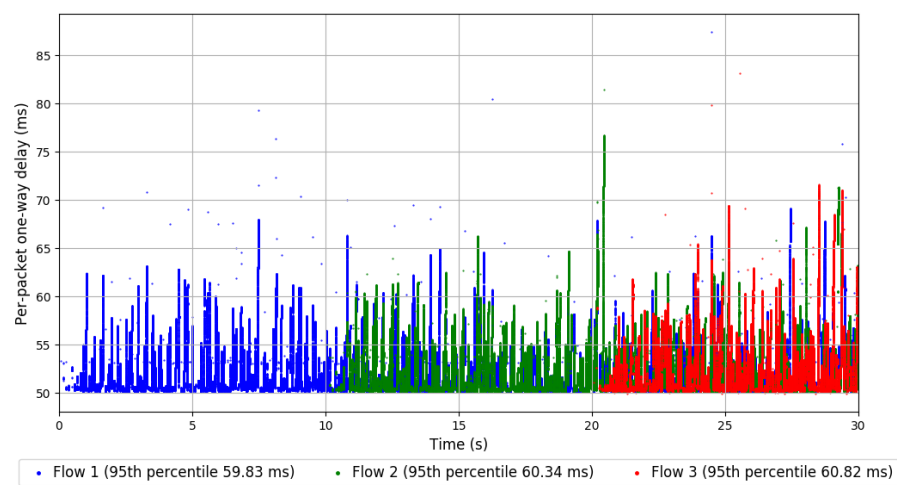
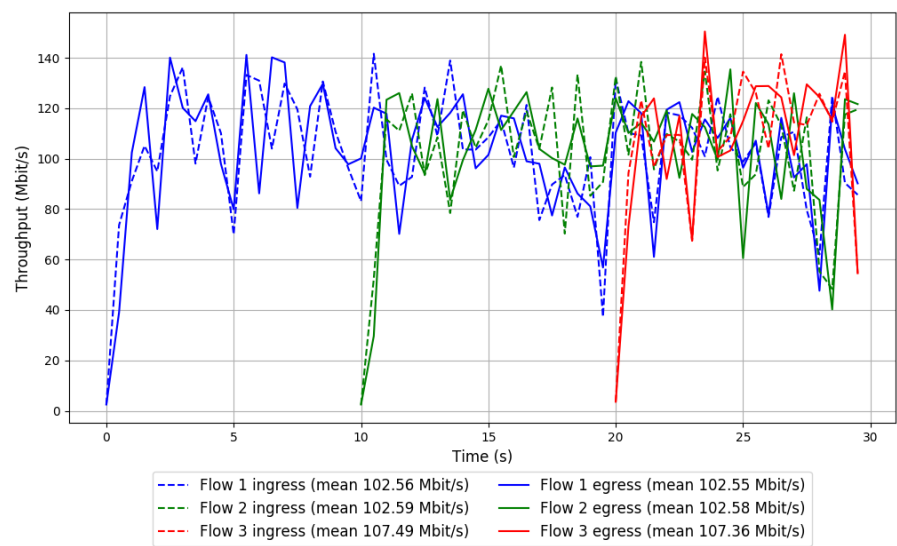
-- Flow 3:

Average throughput: 107.36 Mbit/s

95th percentile per-packet one-way delay: 60.819 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-09-22 09:45:03

End at: 2017-09-22 09:45:33

Below is generated by plot.py at 2017-09-22 12:44:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.81 Mbit/s

95th percentile per-packet one-way delay: 59.125 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 110.94 Mbit/s

95th percentile per-packet one-way delay: 59.474 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 101.54 Mbit/s

95th percentile per-packet one-way delay: 58.945 ms

Loss rate: 0.00%

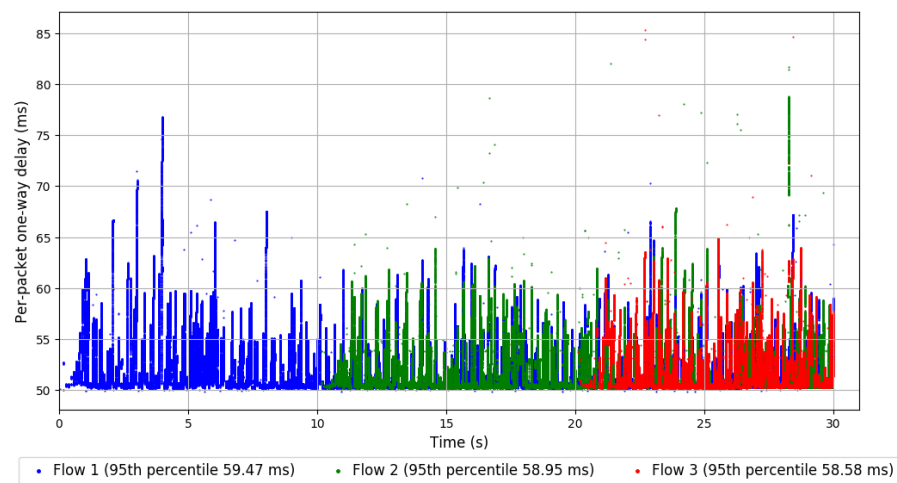
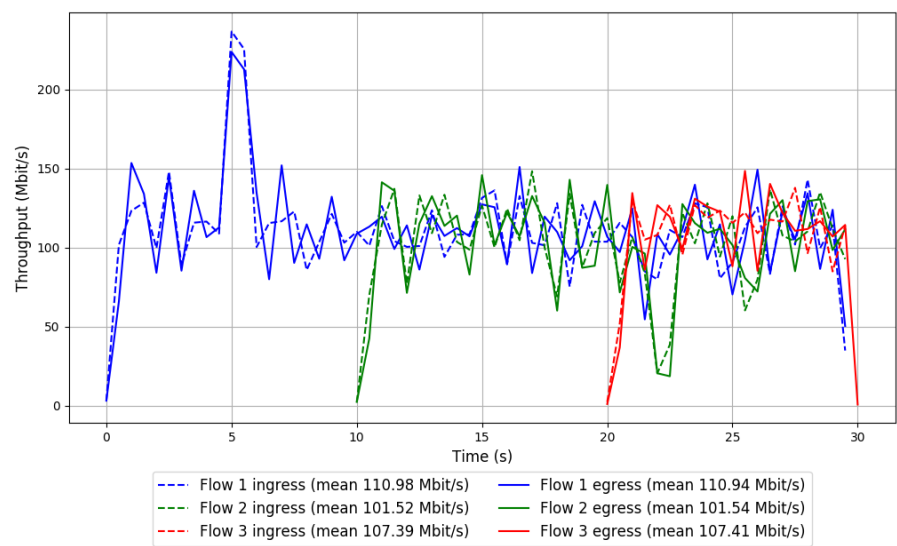
-- Flow 3:

Average throughput: 107.41 Mbit/s

95th percentile per-packet one-way delay: 58.582 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-22 09:57:42

End at: 2017-09-22 09:58:12

Below is generated by plot.py at 2017-09-22 12:44:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 215.05 Mbit/s

95th percentile per-packet one-way delay: 60.367 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 107.66 Mbit/s

95th percentile per-packet one-way delay: 60.299 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 100.63 Mbit/s

95th percentile per-packet one-way delay: 60.515 ms

Loss rate: 0.00%

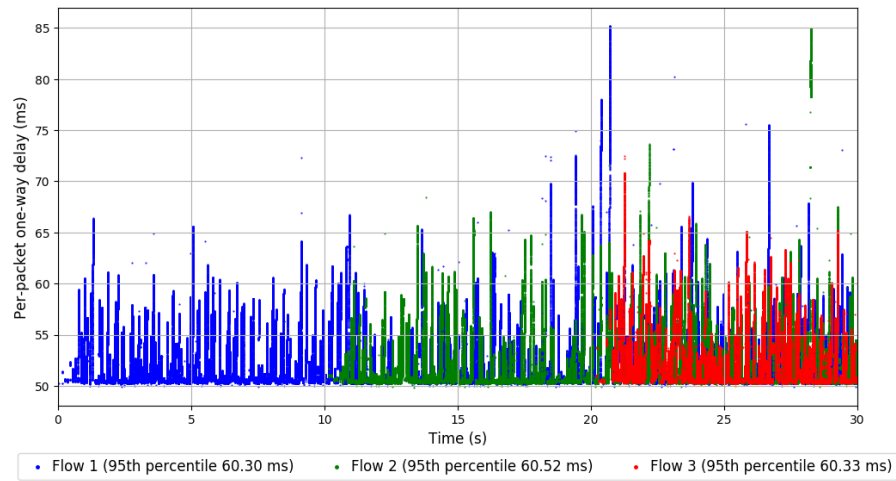
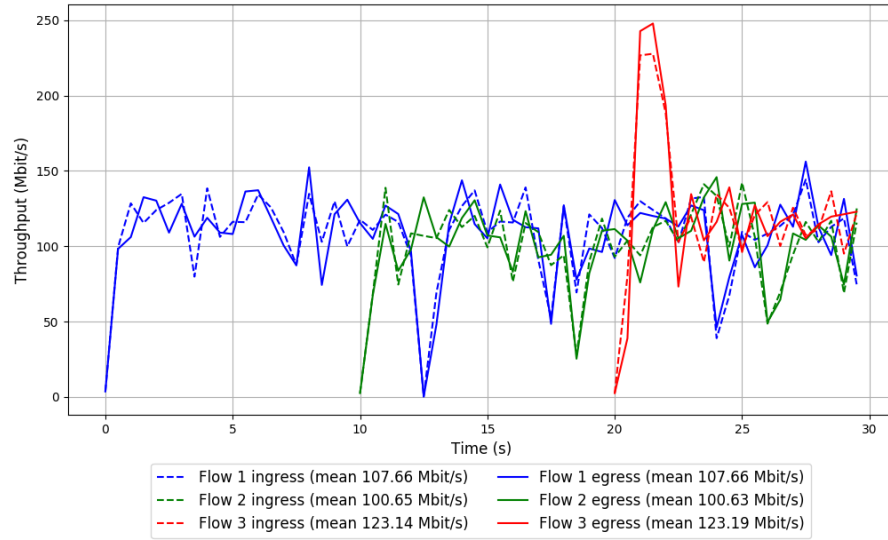
-- Flow 3:

Average throughput: 123.19 Mbit/s

95th percentile per-packet one-way delay: 60.325 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-22 10:10:13

End at: 2017-09-22 10:10:43

Below is generated by plot.py at 2017-09-22 12:44:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 209.29 Mbit/s

95th percentile per-packet one-way delay: 59.594 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 111.07 Mbit/s

95th percentile per-packet one-way delay: 59.087 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.98 Mbit/s

95th percentile per-packet one-way delay: 59.834 ms

Loss rate: 0.00%

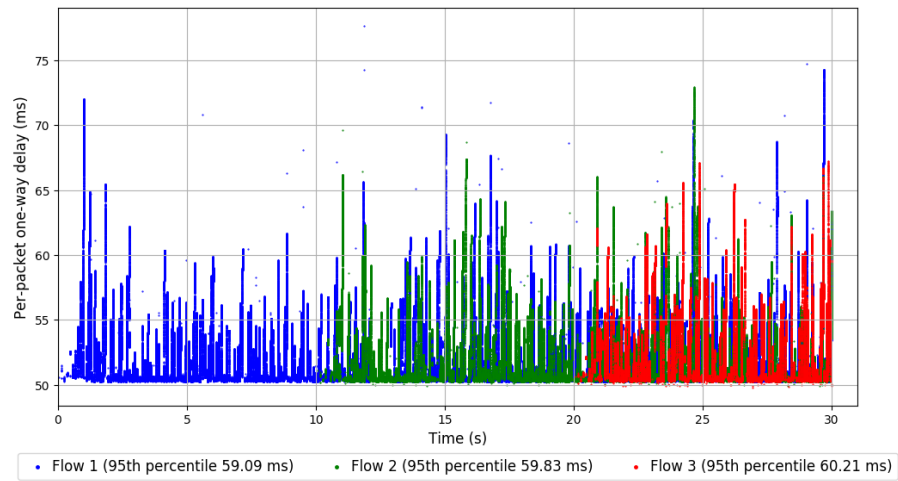
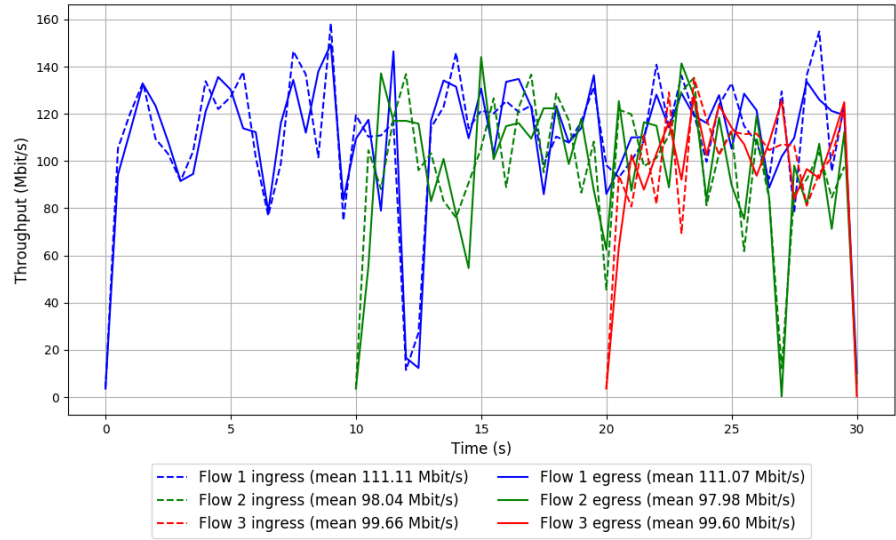
-- Flow 3:

Average throughput: 99.60 Mbit/s

95th percentile per-packet one-way delay: 60.208 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-22 10:22:43

End at: 2017-09-22 10:23:13

Below is generated by plot.py at 2017-09-22 12:44:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.11 Mbit/s

95th percentile per-packet one-way delay: 59.928 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 110.14 Mbit/s

95th percentile per-packet one-way delay: 60.006 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 113.09 Mbit/s

95th percentile per-packet one-way delay: 60.172 ms

Loss rate: 0.00%

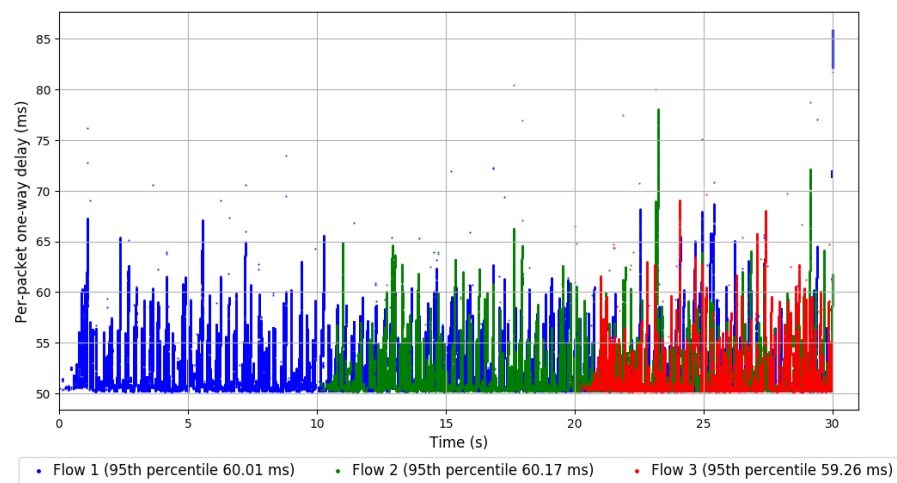
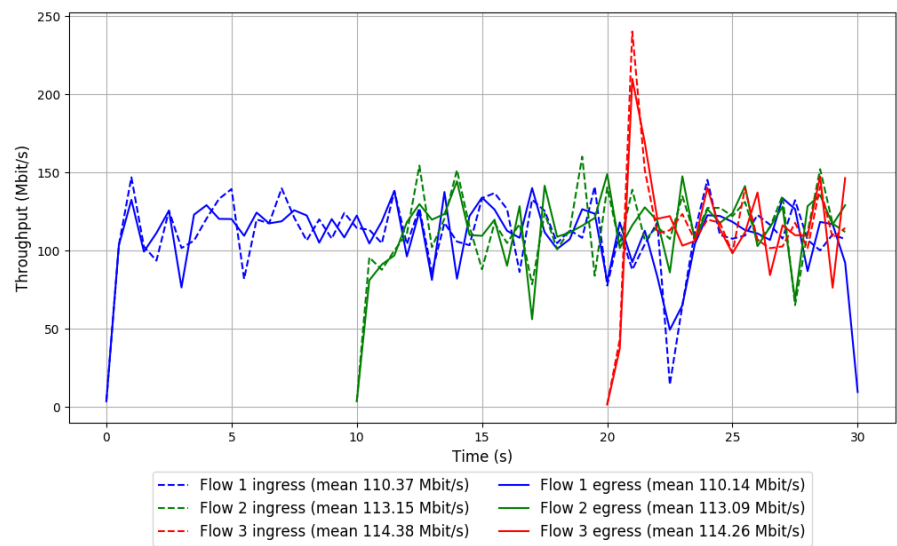
-- Flow 3:

Average throughput: 114.26 Mbit/s

95th percentile per-packet one-way delay: 59.261 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-09-22 10:35:07

End at: 2017-09-22 10:35:37

Below is generated by plot.py at 2017-09-22 12:44:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.10 Mbit/s

95th percentile per-packet one-way delay: 59.523 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 103.20 Mbit/s

95th percentile per-packet one-way delay: 58.599 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 108.93 Mbit/s

95th percentile per-packet one-way delay: 60.816 ms

Loss rate: 0.00%

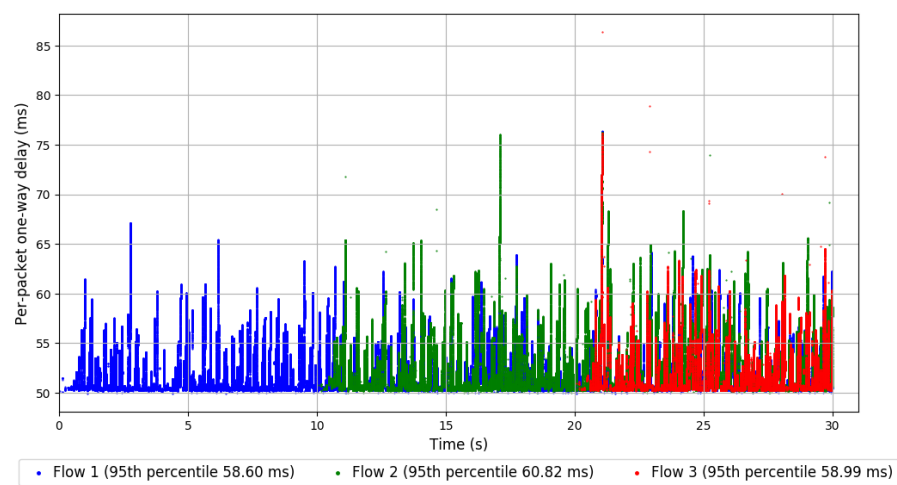
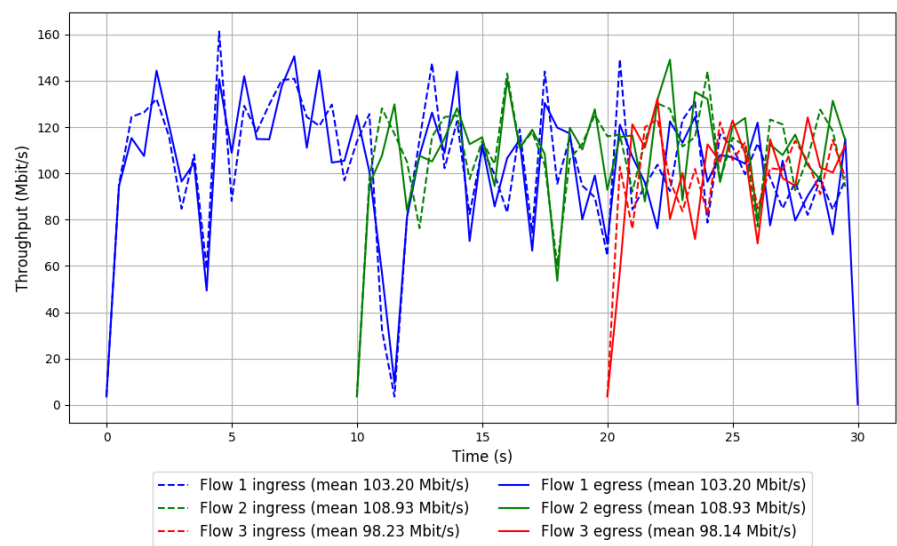
-- Flow 3:

Average throughput: 98.14 Mbit/s

95th percentile per-packet one-way delay: 58.994 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-09-22 10:47:29

End at: 2017-09-22 10:47:59

Below is generated by plot.py at 2017-09-22 12:44:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.60 Mbit/s

95th percentile per-packet one-way delay: 59.852 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 105.38 Mbit/s

95th percentile per-packet one-way delay: 59.493 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 108.39 Mbit/s

95th percentile per-packet one-way delay: 59.480 ms

Loss rate: 0.01%

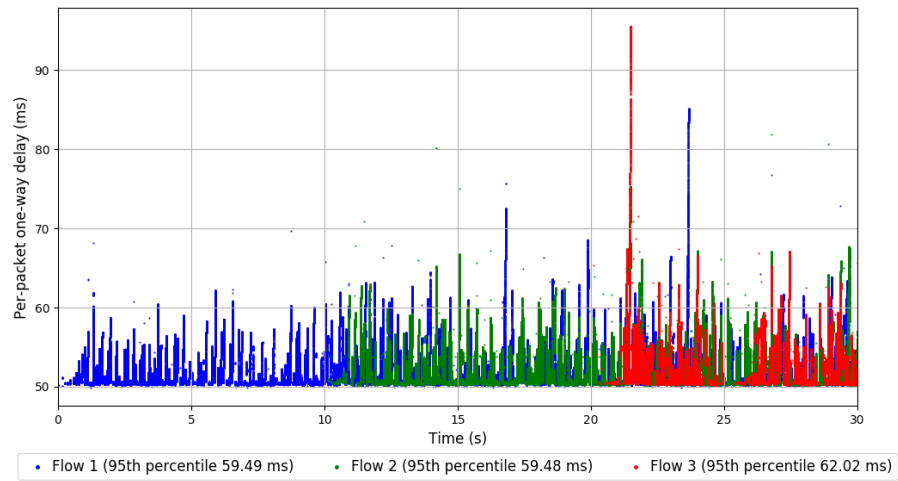
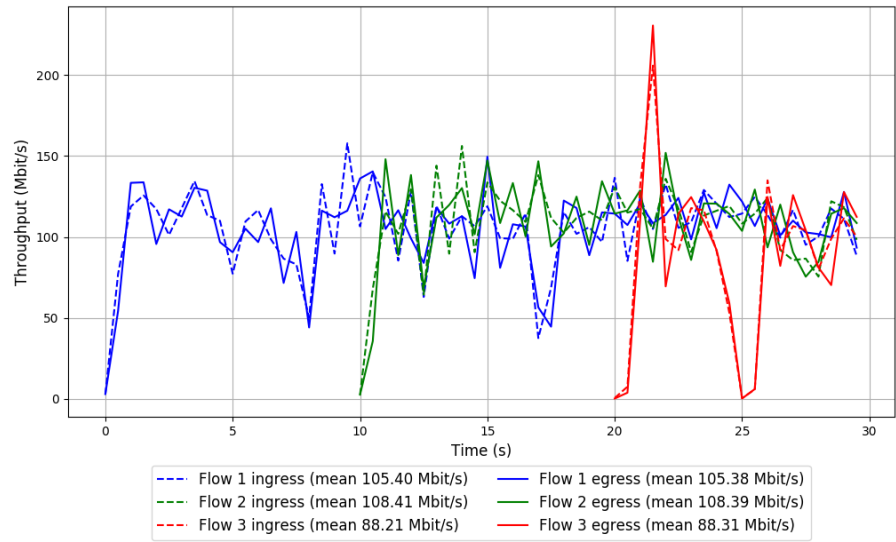
-- Flow 3:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 62.017 ms

Loss rate: 0.02%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-09-22 10:59:59

End at: 2017-09-22 11:00:29

Below is generated by plot.py at 2017-09-22 12:48:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.41 Mbit/s

95th percentile per-packet one-way delay: 61.203 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 109.87 Mbit/s

95th percentile per-packet one-way delay: 61.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.94 Mbit/s

95th percentile per-packet one-way delay: 61.944 ms

Loss rate: 0.01%

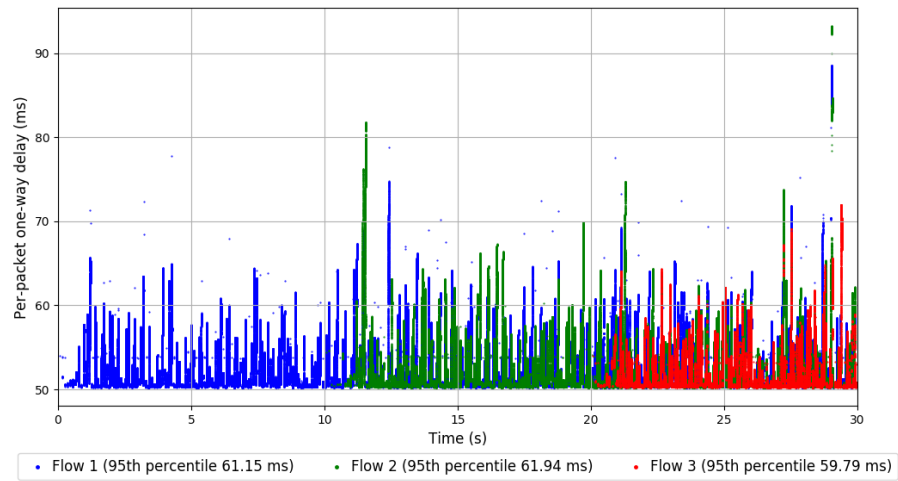
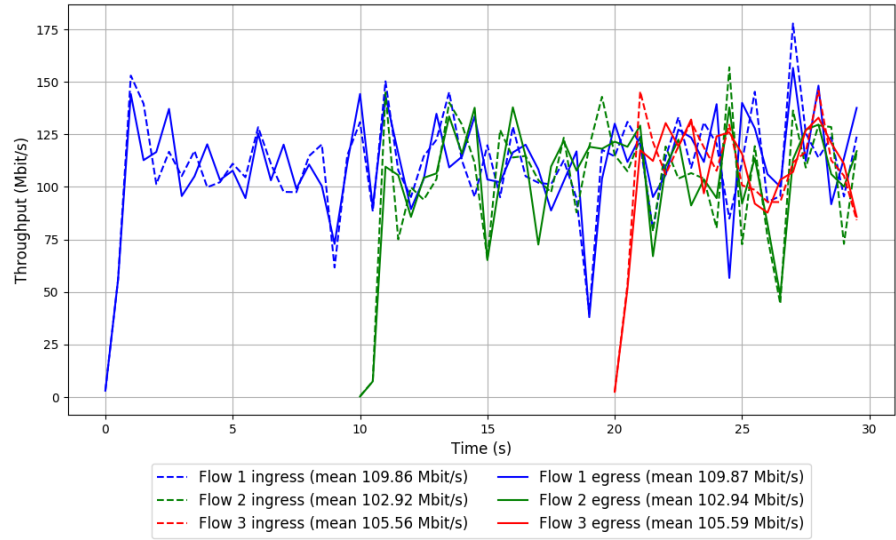
-- Flow 3:

Average throughput: 105.59 Mbit/s

95th percentile per-packet one-way delay: 59.790 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-09-22 11:12:27

End at: 2017-09-22 11:12:57

Below is generated by plot.py at 2017-09-22 12:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 214.45 Mbit/s

95th percentile per-packet one-way delay: 60.100 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 106.92 Mbit/s

95th percentile per-packet one-way delay: 59.165 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 111.49 Mbit/s

95th percentile per-packet one-way delay: 61.226 ms

Loss rate: 0.00%

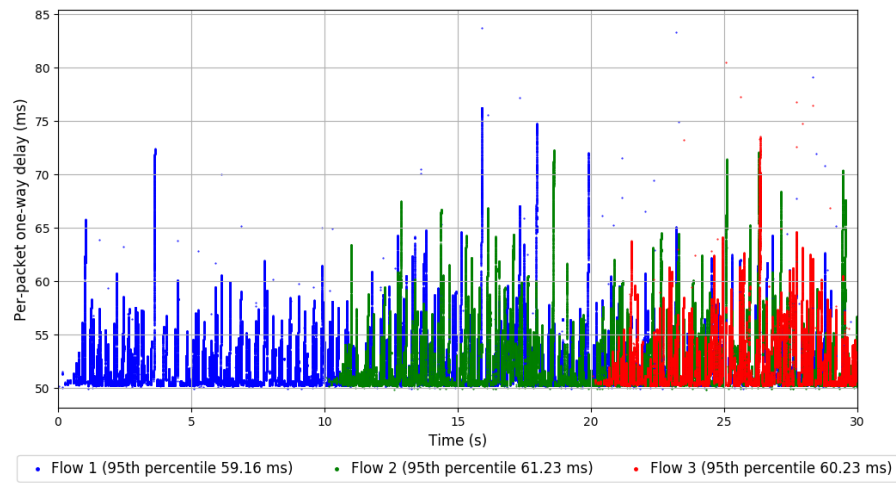
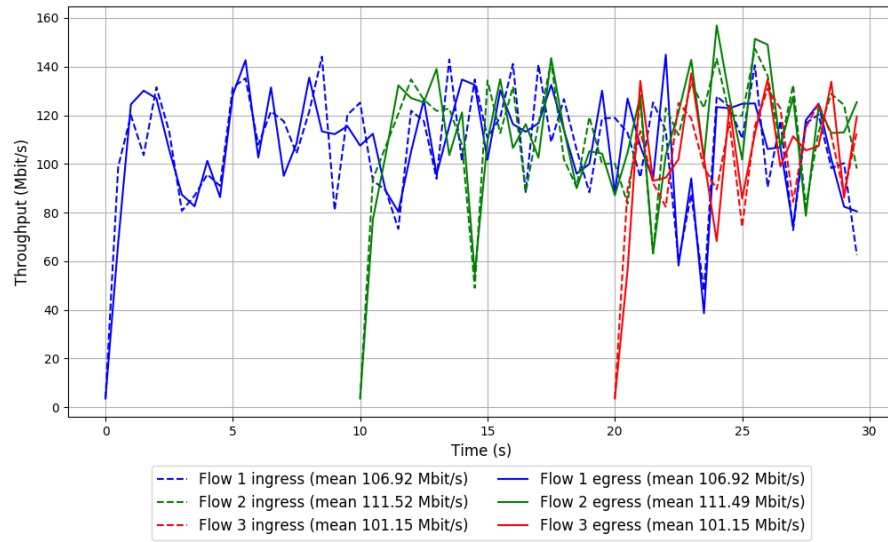
-- Flow 3:

Average throughput: 101.15 Mbit/s

95th percentile per-packet one-way delay: 60.226 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-22 09:23:58

End at: 2017-09-22 09:24:28

Below is generated by plot.py at 2017-09-22 12:48:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.39 Mbit/s

95th percentile per-packet one-way delay: 51.980 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 129.91 Mbit/s

95th percentile per-packet one-way delay: 51.797 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 52.203 ms

Loss rate: 0.00%

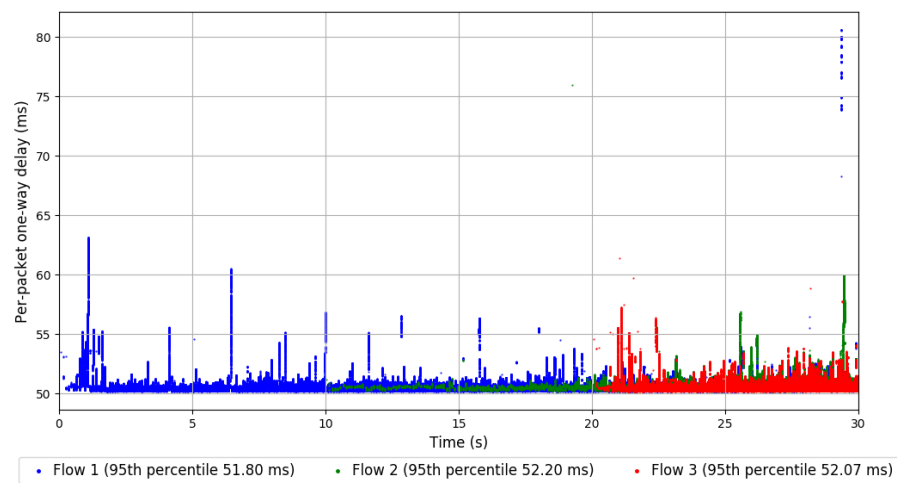
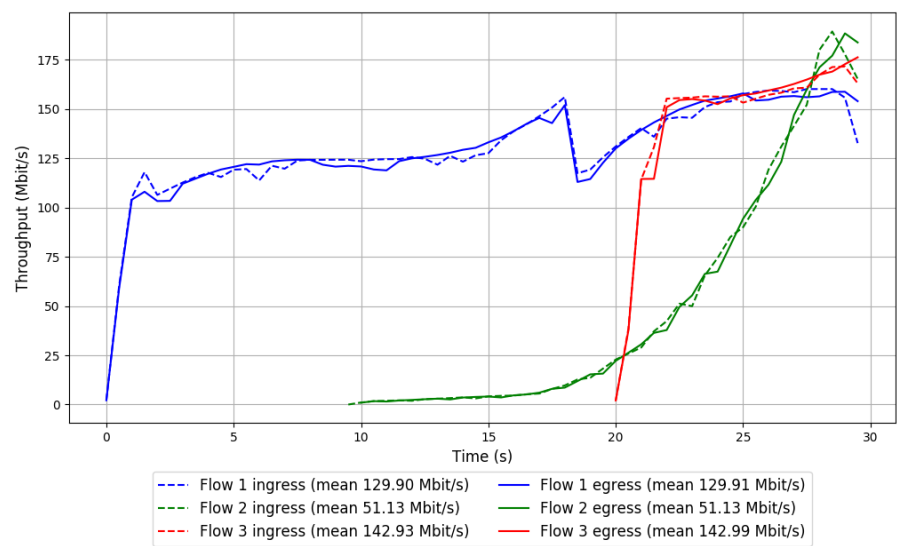
-- Flow 3:

Average throughput: 142.99 Mbit/s

95th percentile per-packet one-way delay: 52.074 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-09-22 09:36:17

End at: 2017-09-22 09:36:47

Below is generated by plot.py at 2017-09-22 12:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.90 Mbit/s

95th percentile per-packet one-way delay: 52.016 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 82.43 Mbit/s

95th percentile per-packet one-way delay: 51.664 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 156.81 Mbit/s

95th percentile per-packet one-way delay: 52.386 ms

Loss rate: 0.00%

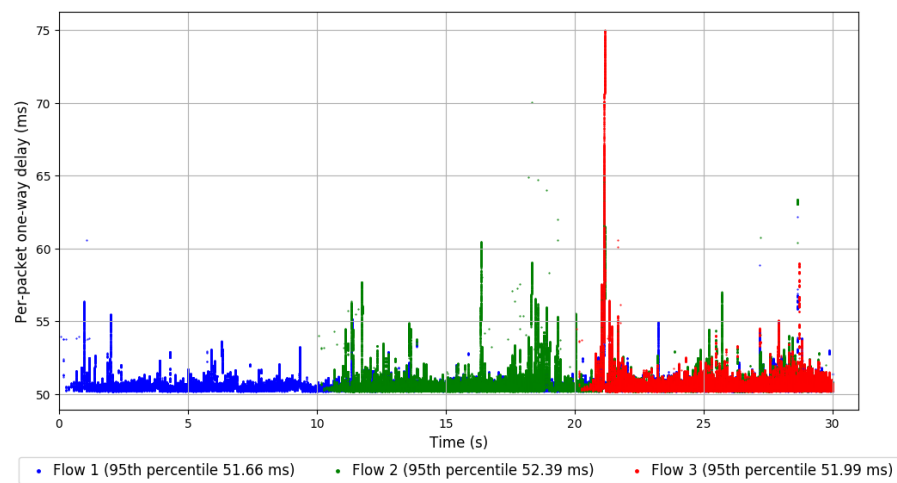
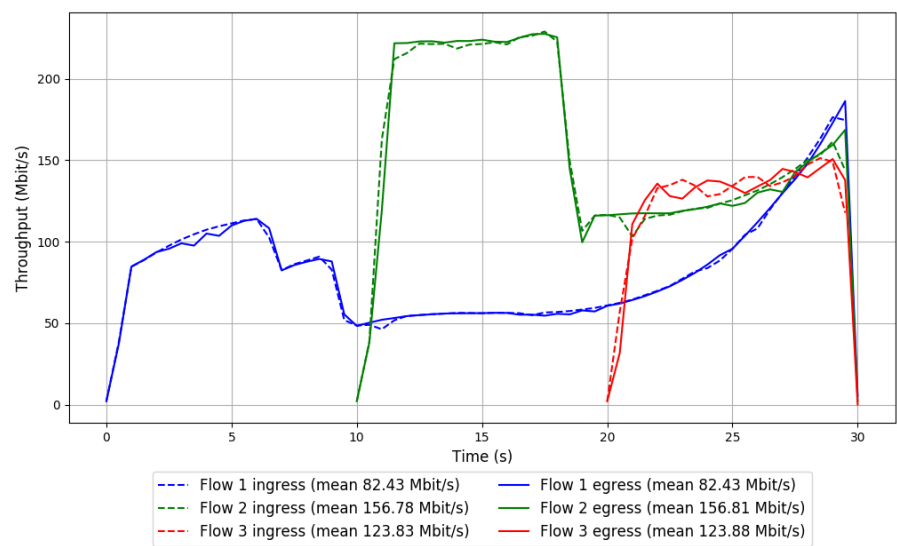
-- Flow 3:

Average throughput: 123.88 Mbit/s

95th percentile per-packet one-way delay: 51.986 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-09-22 09:48:50

End at: 2017-09-22 09:49:20

Below is generated by plot.py at 2017-09-22 12:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.72 Mbit/s

95th percentile per-packet one-way delay: 52.098 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 111.76 Mbit/s

95th percentile per-packet one-way delay: 52.284 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 138.49 Mbit/s

95th percentile per-packet one-way delay: 51.836 ms

Loss rate: 0.00%

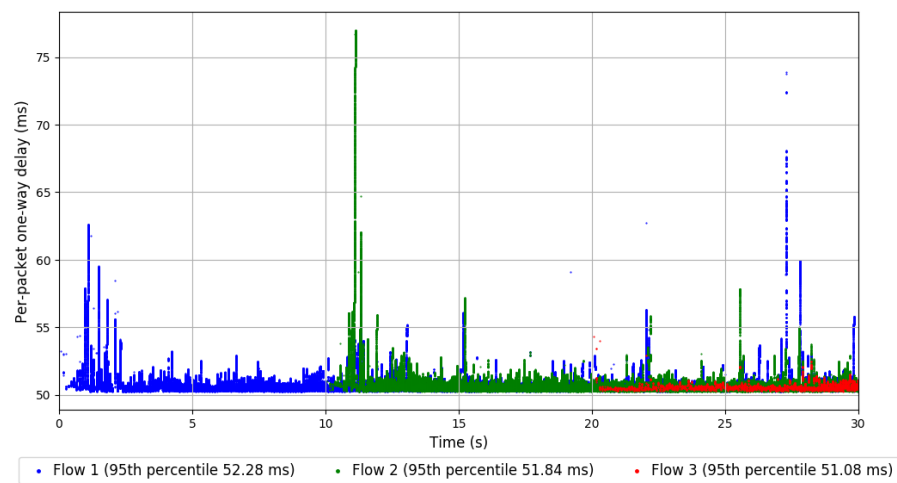
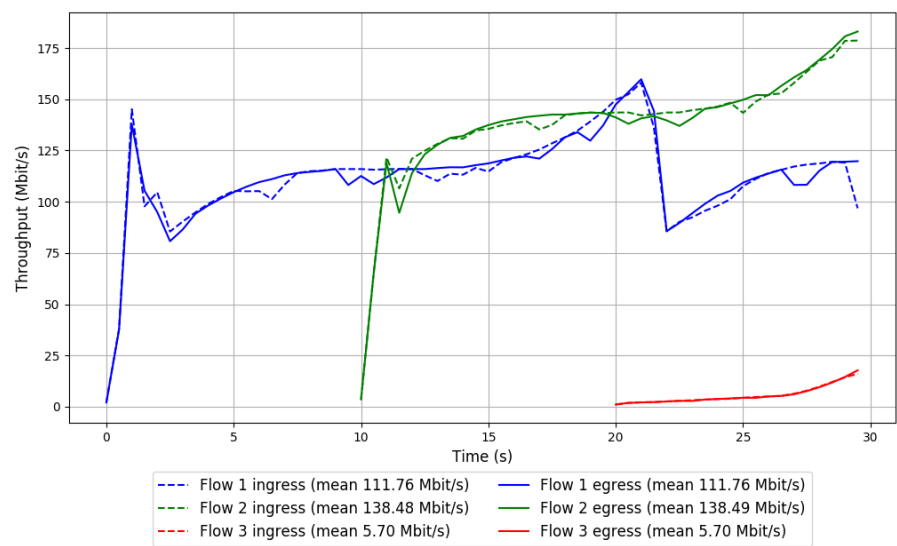
-- Flow 3:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 51.083 ms

Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-09-22 10:01:30

End at: 2017-09-22 10:02:00

Below is generated by plot.py at 2017-09-22 12:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 154.41 Mbit/s

95th percentile per-packet one-way delay: 52.036 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 145.26 Mbit/s

95th percentile per-packet one-way delay: 52.155 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.07 Mbit/s

95th percentile per-packet one-way delay: 50.812 ms

Loss rate: 0.08%

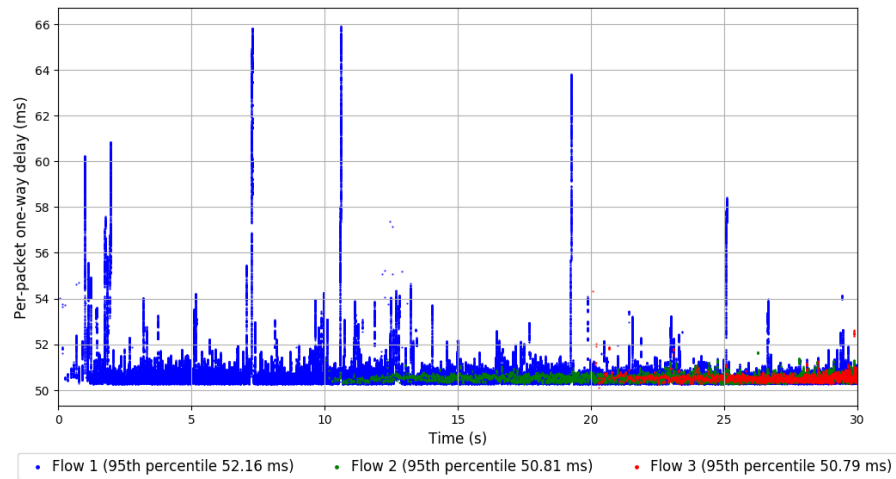
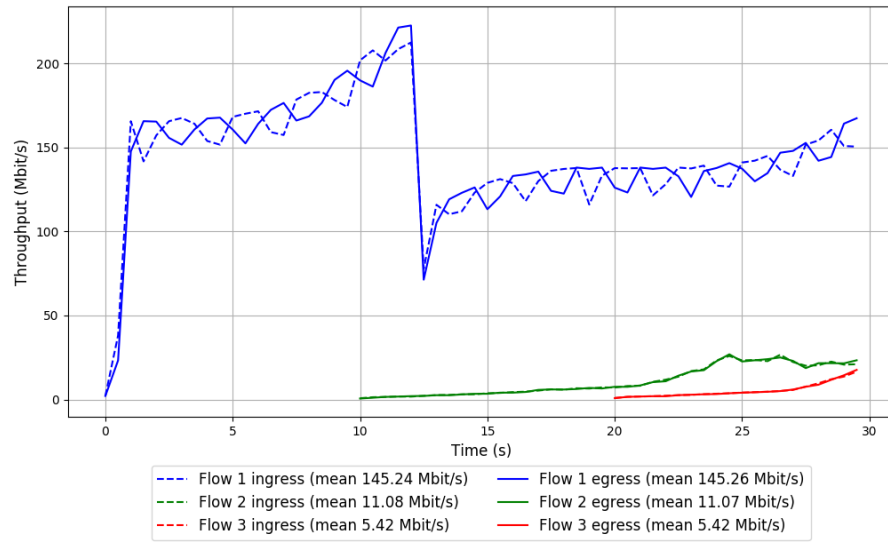
-- Flow 3:

Average throughput: 5.42 Mbit/s

95th percentile per-packet one-way delay: 50.791 ms

Loss rate: 0.09%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-09-22 10:13:58

End at: 2017-09-22 10:14:28

Below is generated by plot.py at 2017-09-22 12:48:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.59 Mbit/s

95th percentile per-packet one-way delay: 53.143 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 131.68 Mbit/s

95th percentile per-packet one-way delay: 54.048 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.12 Mbit/s

95th percentile per-packet one-way delay: 51.867 ms

Loss rate: 0.00%

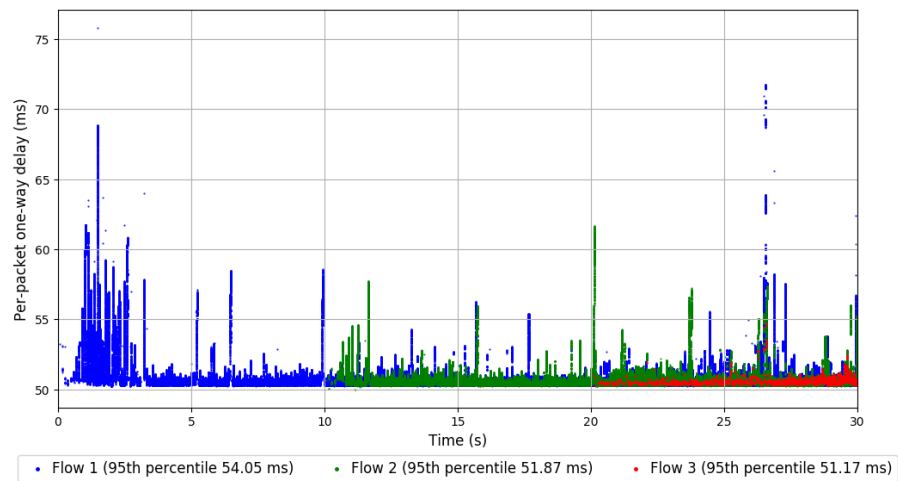
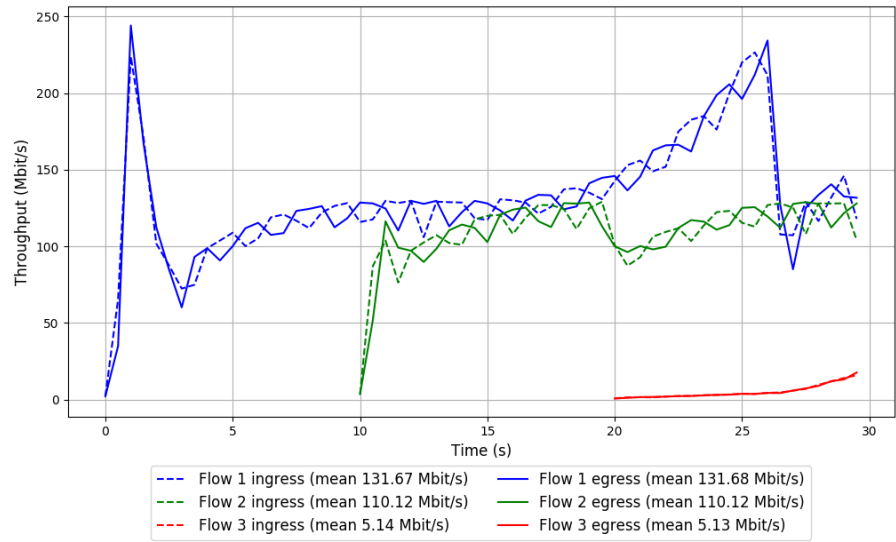
-- Flow 3:

Average throughput: 5.13 Mbit/s

95th percentile per-packet one-way delay: 51.167 ms

Loss rate: 0.14%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-09-22 10:26:35

End at: 2017-09-22 10:27:05

Below is generated by plot.py at 2017-09-22 12:49:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 227.85 Mbit/s

95th percentile per-packet one-way delay: 52.870 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 126.18 Mbit/s

95th percentile per-packet one-way delay: 53.454 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.18 Mbit/s

95th percentile per-packet one-way delay: 52.353 ms

Loss rate: 0.00%

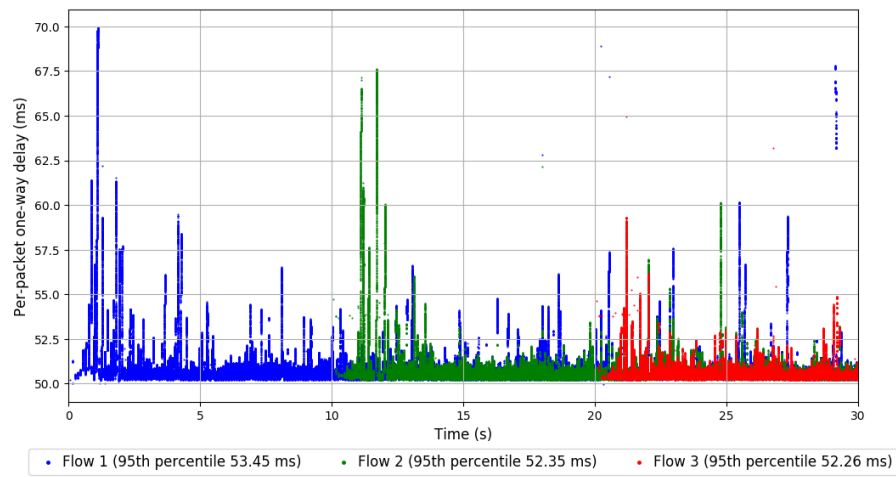
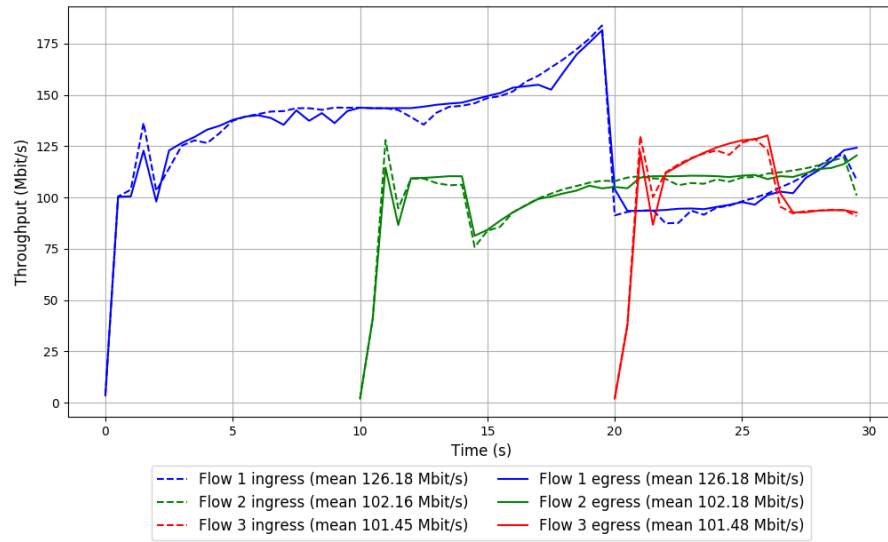
-- Flow 3:

Average throughput: 101.48 Mbit/s

95th percentile per-packet one-way delay: 52.264 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-09-22 10:38:55

End at: 2017-09-22 10:39:25

Below is generated by plot.py at 2017-09-22 12:52:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.24 Mbit/s

95th percentile per-packet one-way delay: 53.997 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 151.30 Mbit/s

95th percentile per-packet one-way delay: 53.911 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 111.94 Mbit/s

95th percentile per-packet one-way delay: 54.311 ms

Loss rate: 0.00%

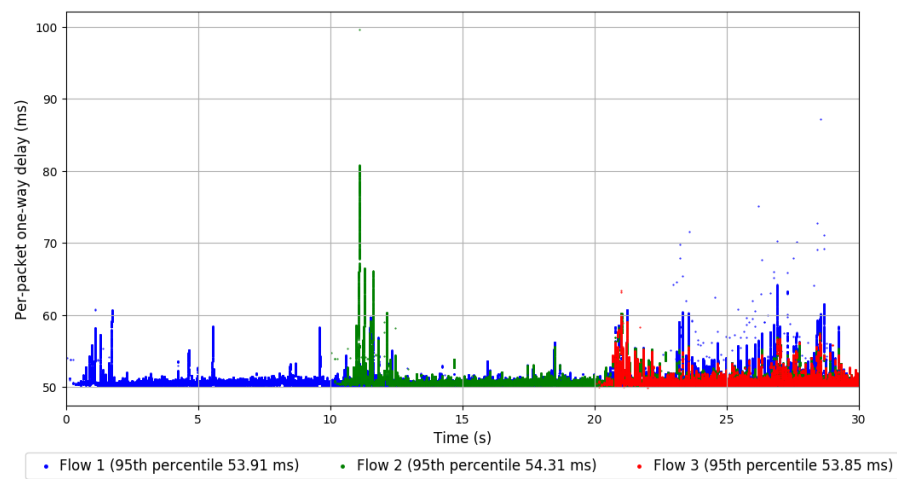
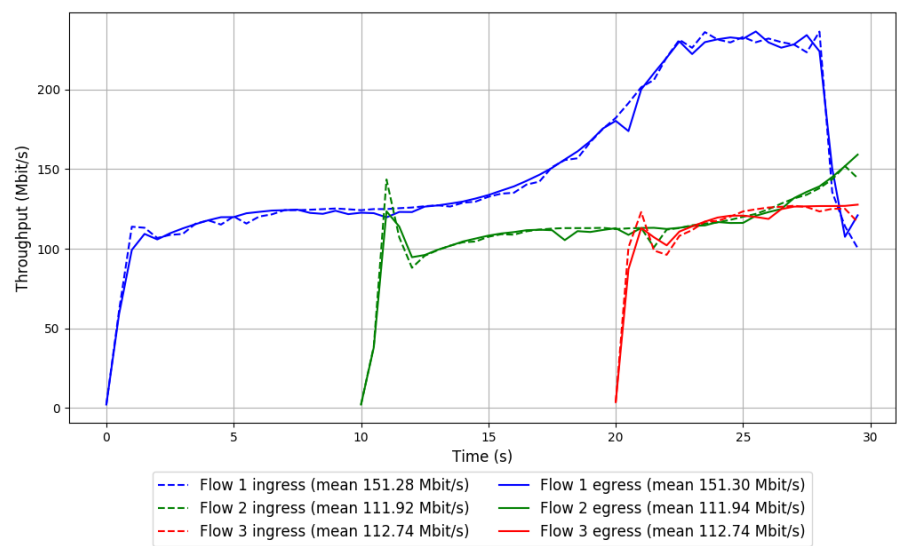
-- Flow 3:

Average throughput: 112.74 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-09-22 10:51:13

End at: 2017-09-22 10:51:43

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.38 Mbit/s

95th percentile per-packet one-way delay: 54.954 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 141.23 Mbit/s

95th percentile per-packet one-way delay: 54.552 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 136.13 Mbit/s

95th percentile per-packet one-way delay: 54.647 ms

Loss rate: 0.00%

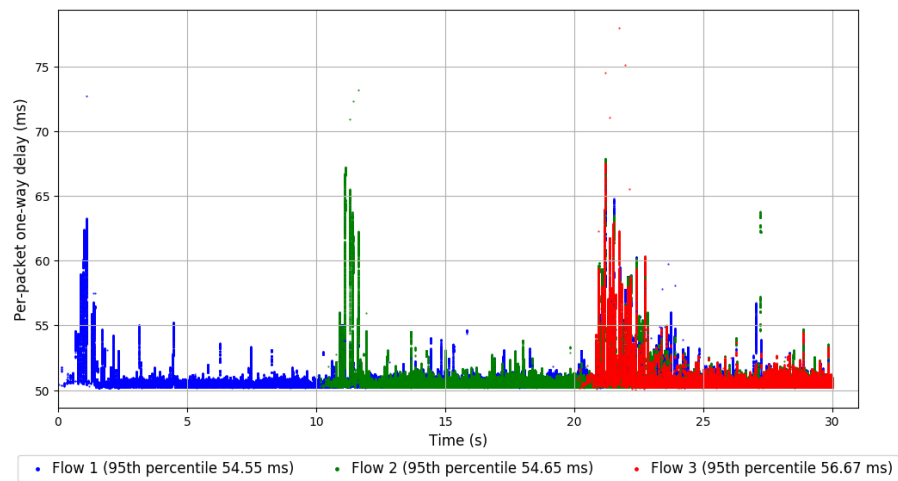
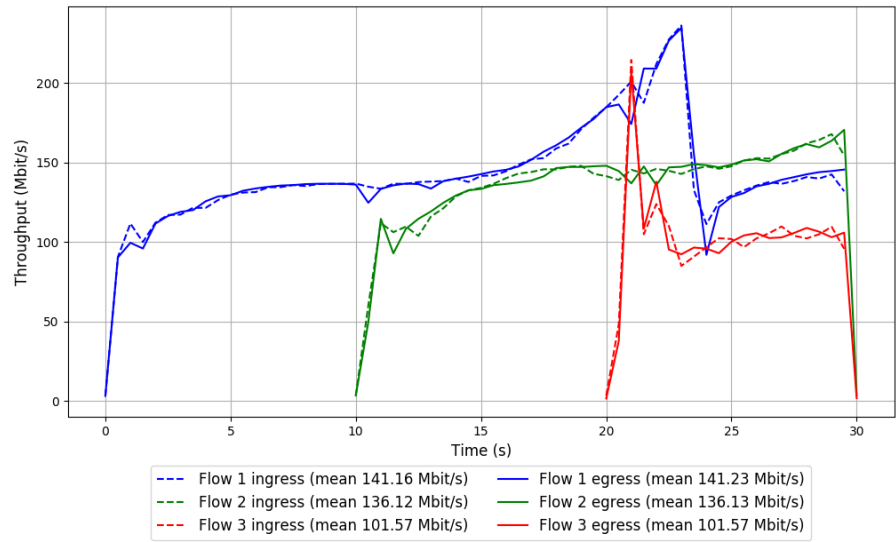
-- Flow 3:

Average throughput: 101.57 Mbit/s

95th percentile per-packet one-way delay: 56.671 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-09-22 11:03:43

End at: 2017-09-22 11:04:13

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 226.97 Mbit/s

95th percentile per-packet one-way delay: 52.687 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 104.13 Mbit/s

95th percentile per-packet one-way delay: 52.178 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 130.81 Mbit/s

95th percentile per-packet one-way delay: 53.358 ms

Loss rate: 0.00%

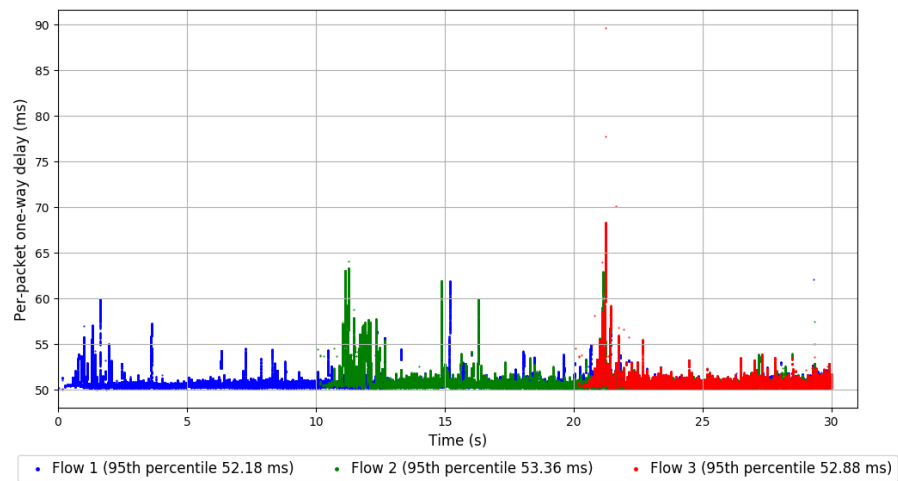
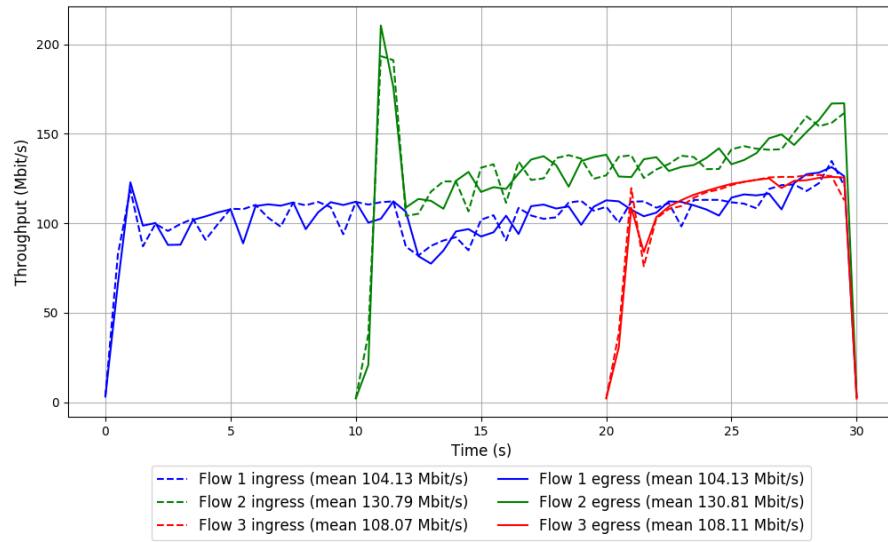
-- Flow 3:

Average throughput: 108.11 Mbit/s

95th percentile per-packet one-way delay: 52.884 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-22 11:16:10

End at: 2017-09-22 11:16:40

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 235.20 Mbit/s

95th percentile per-packet one-way delay: 53.327 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 115.95 Mbit/s

95th percentile per-packet one-way delay: 51.908 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 131.91 Mbit/s

95th percentile per-packet one-way delay: 54.496 ms

Loss rate: 0.00%

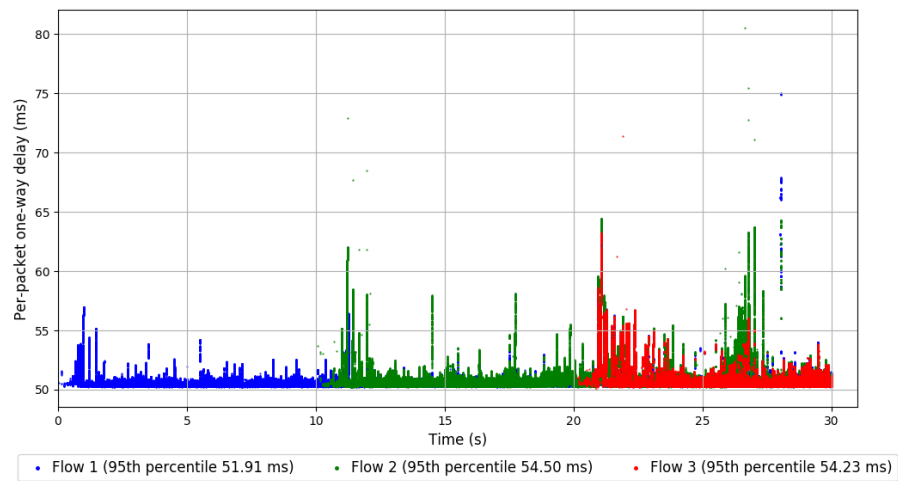
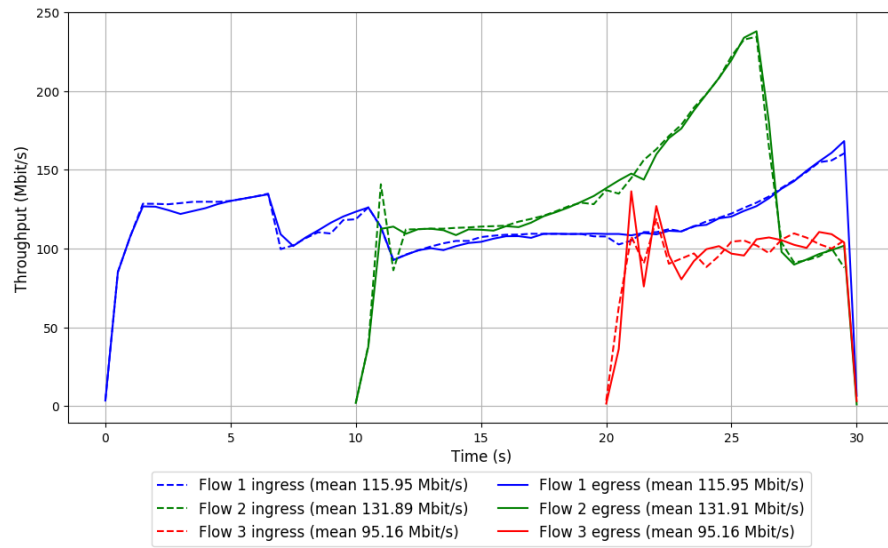
-- Flow 3:

Average throughput: 95.16 Mbit/s

95th percentile per-packet one-way delay: 54.233 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

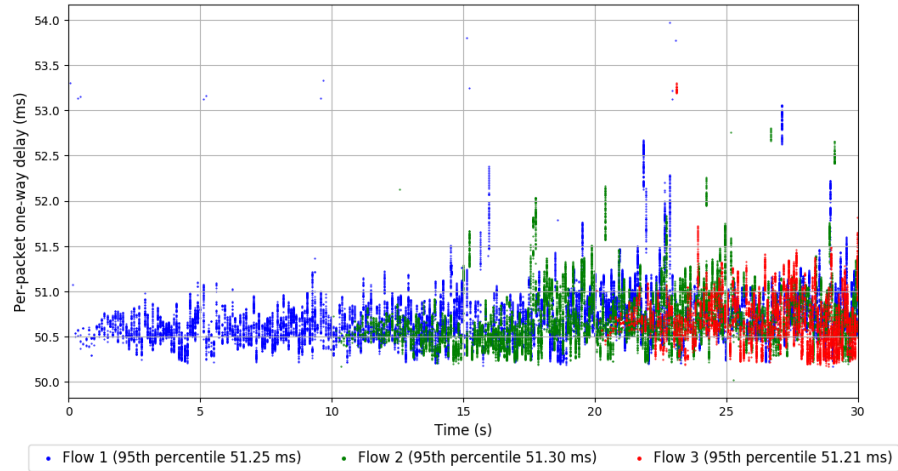
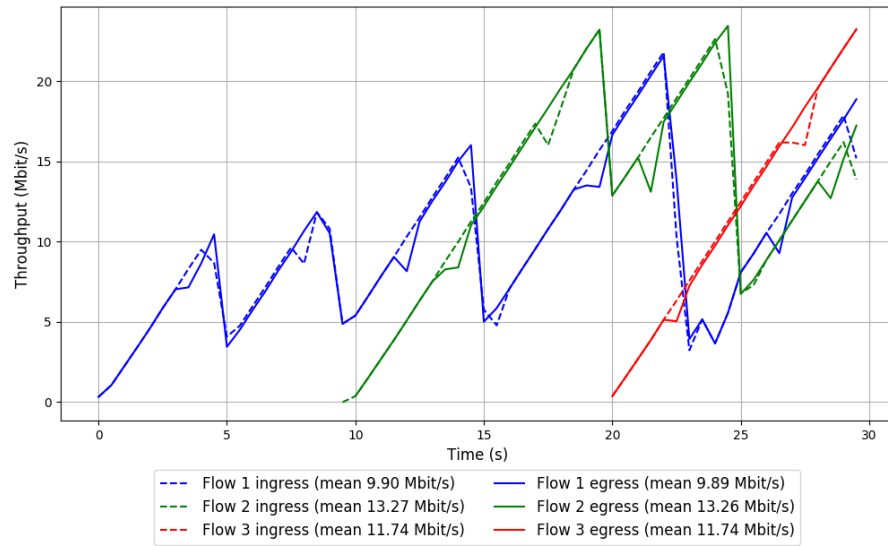


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-22 09:23:17
End at: 2017-09-22 09:23:47

# Below is generated by plot.py at 2017-09-22 12:52:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 51.269 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 51.248 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 51.303 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 51.212 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

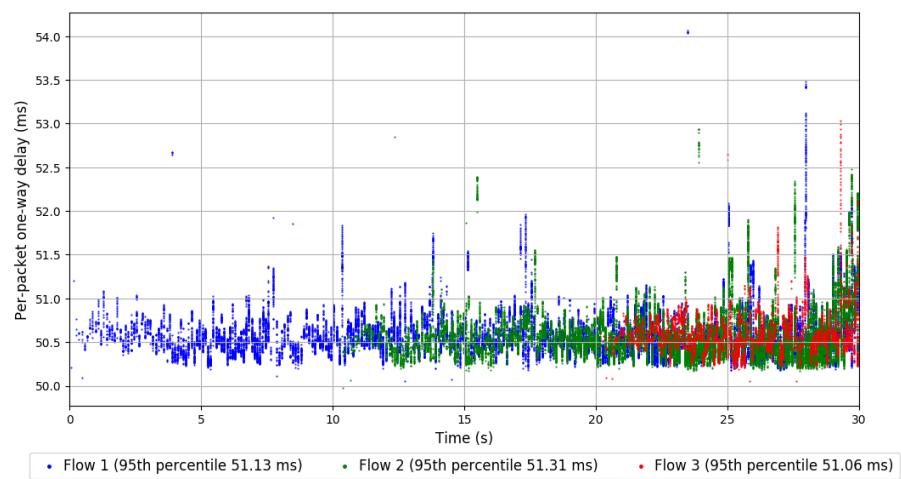
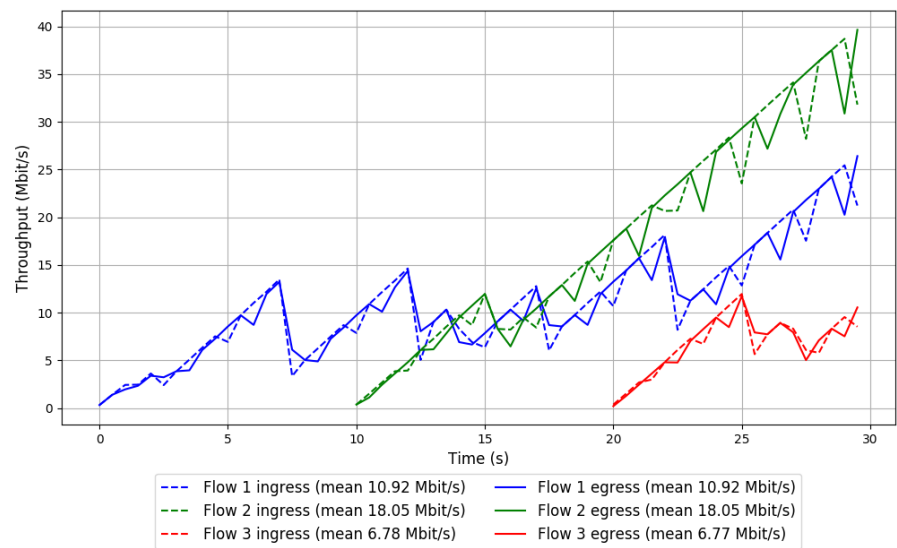


```
Run 2: Statistics of LEDBAT

Start at: 2017-09-22 09:35:36
End at: 2017-09-22 09:36:06

# Below is generated by plot.py at 2017-09-22 12:52:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 51.206 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 10.92 Mbit/s
95th percentile per-packet one-way delay: 51.126 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 18.05 Mbit/s
95th percentile per-packet one-way delay: 51.308 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 51.061 ms
Loss rate: 0.25%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-09-22 09:48:08

End at: 2017-09-22 09:48:38

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.57 Mbit/s

95th percentile per-packet one-way delay: 51.471 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 11.44 Mbit/s

95th percentile per-packet one-way delay: 51.544 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 9.29 Mbit/s

95th percentile per-packet one-way delay: 51.428 ms

Loss rate: 0.03%

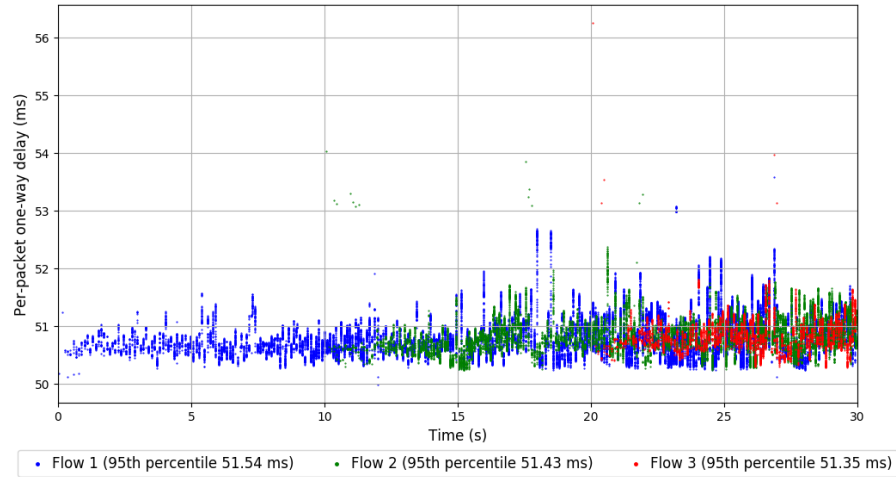
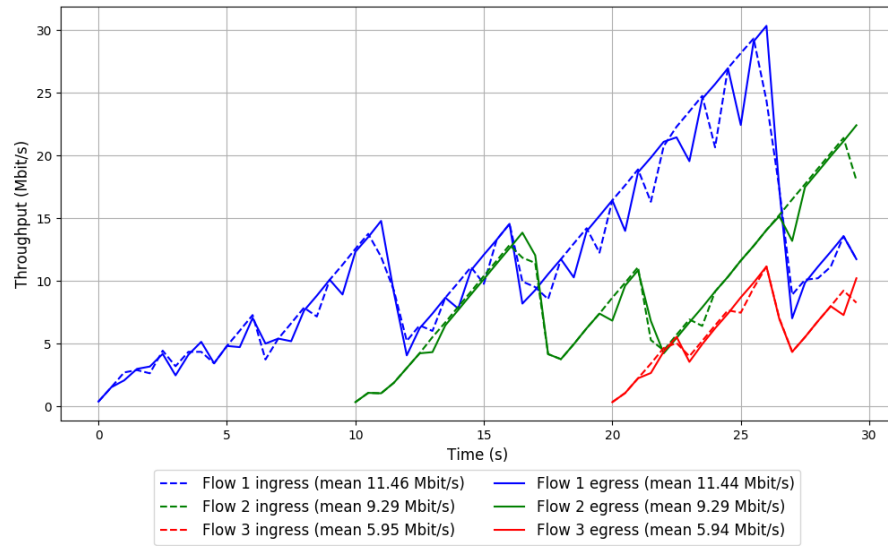
-- Flow 3:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 51.353 ms

Loss rate: 0.14%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-09-22 10:00:48

End at: 2017-09-22 10:01:18

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.27 Mbit/s

95th percentile per-packet one-way delay: 51.593 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 8.37 Mbit/s

95th percentile per-packet one-way delay: 51.474 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 18.09 Mbit/s

95th percentile per-packet one-way delay: 51.920 ms

Loss rate: 0.03%

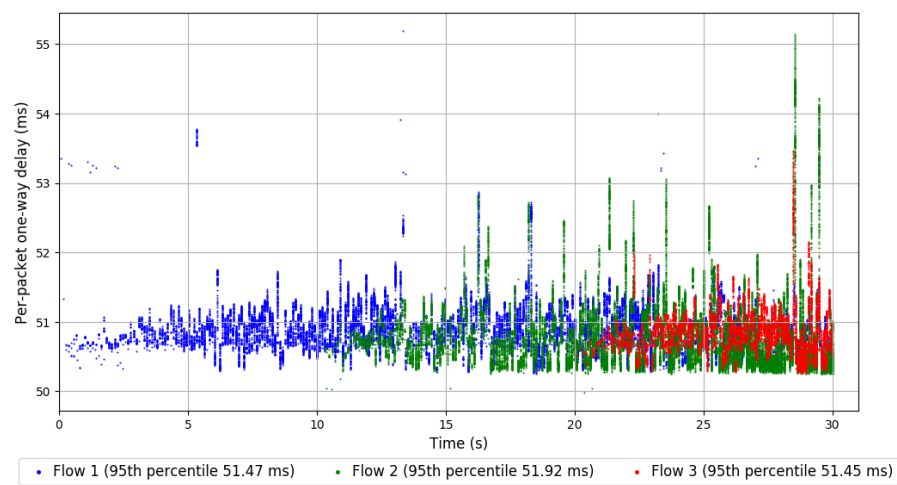
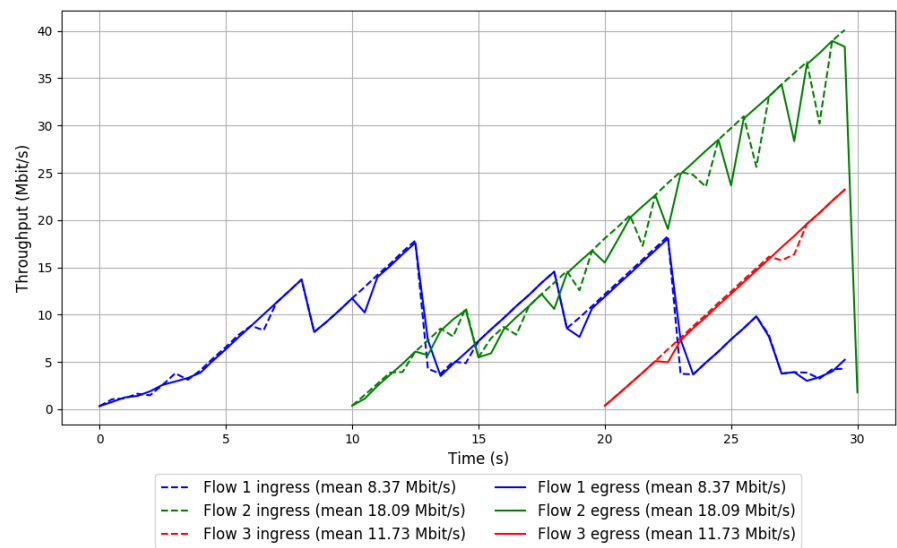
-- Flow 3:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 51.446 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-22 10:13:17

End at: 2017-09-22 10:13:47

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 19.74 Mbit/s

95th percentile per-packet one-way delay: 51.384 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 9.72 Mbit/s

95th percentile per-packet one-way delay: 51.339 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 9.48 Mbit/s

95th percentile per-packet one-way delay: 51.424 ms

Loss rate: 0.01%

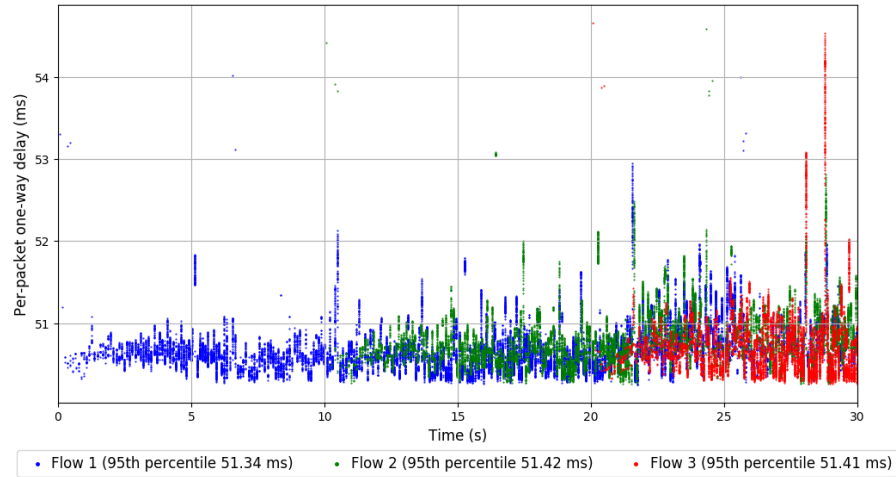
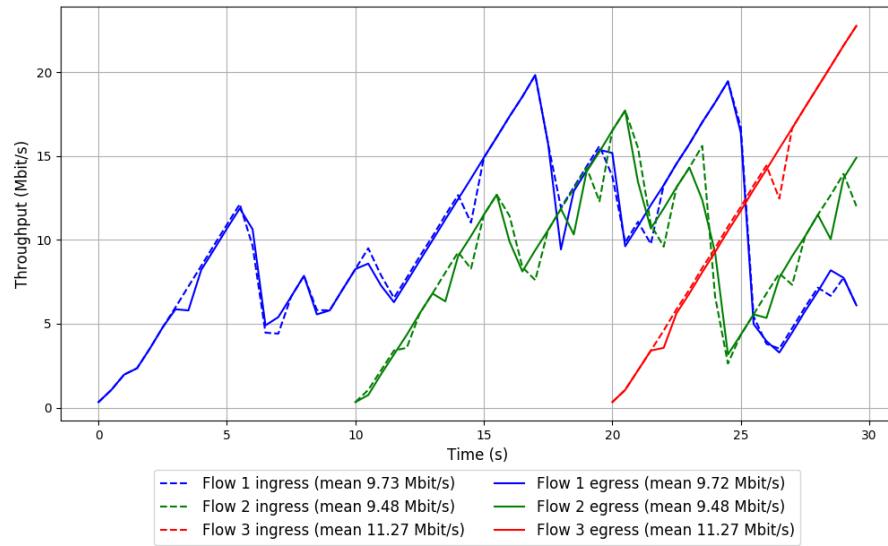
-- Flow 3:

Average throughput: 11.27 Mbit/s

95th percentile per-packet one-way delay: 51.415 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-09-22 10:25:53

End at: 2017-09-22 10:26:23

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.84 Mbit/s

95th percentile per-packet one-way delay: 51.781 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 51.952 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 9.75 Mbit/s

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

Loss rate: 0.06%

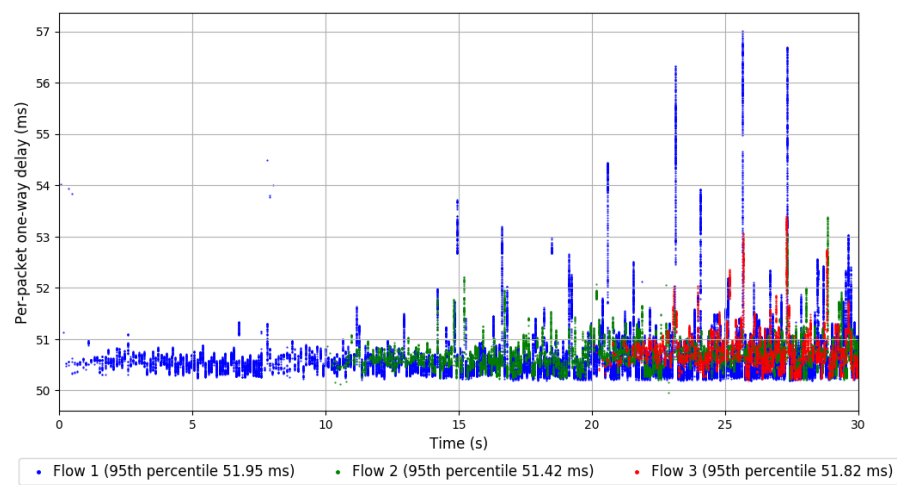
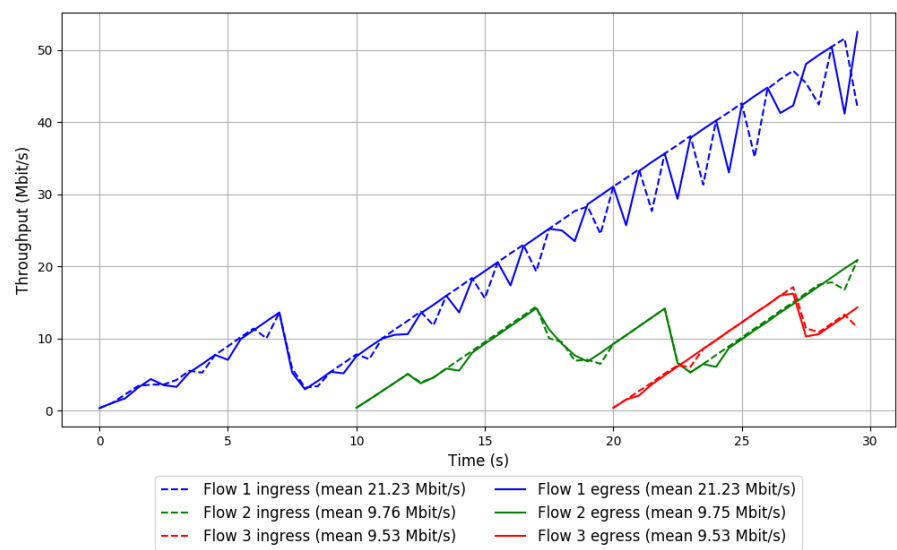
-- Flow 3:

Average throughput: 9.53 Mbit/s

95th percentile per-packet one-way delay: 51.824 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-09-22 10:38:13

End at: 2017-09-22 10:38:43

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 26.71 Mbit/s

95th percentile per-packet one-way delay: 51.286 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 51.270 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 9.73 Mbit/s

95th percentile per-packet one-way delay: 51.134 ms

Loss rate: 0.05%

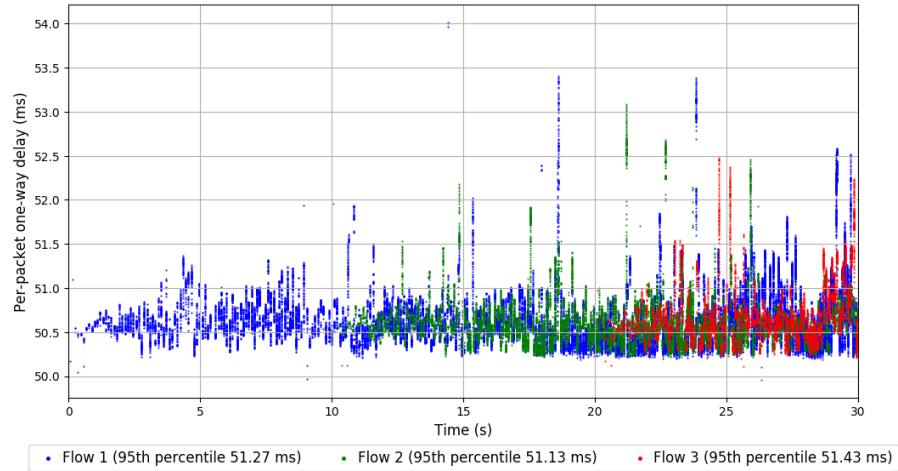
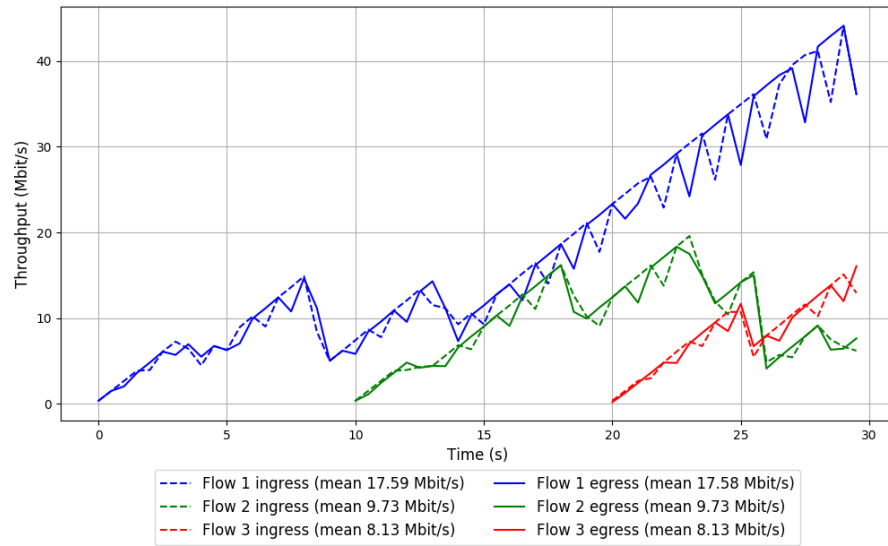
-- Flow 3:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 51.426 ms

Loss rate: 0.03%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-09-22 10:50:32

End at: 2017-09-22 10:51:02

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 23.45 Mbit/s

95th percentile per-packet one-way delay: 51.490 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 9.31 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 16.94 Mbit/s

95th percentile per-packet one-way delay: 51.665 ms

Loss rate: 0.00%

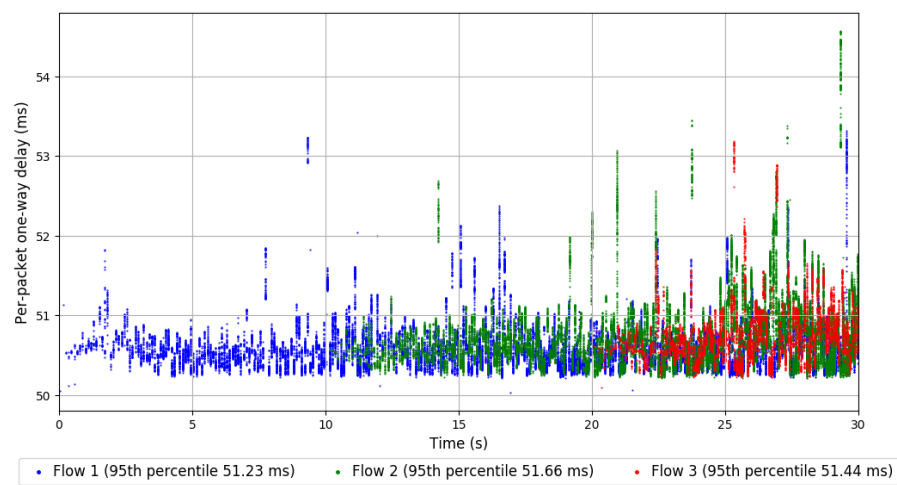
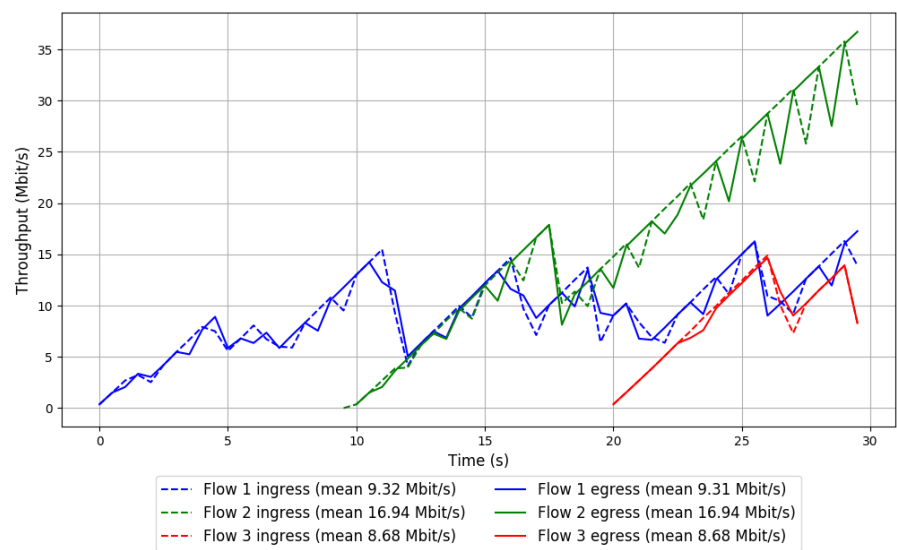
-- Flow 3:

Average throughput: 8.68 Mbit/s

95th percentile per-packet one-way delay: 51.437 ms

Loss rate: 0.01%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-09-22 11:03:02

End at: 2017-09-22 11:03:32

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 51.349 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 10.39 Mbit/s

95th percentile per-packet one-way delay: 51.361 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 15.87 Mbit/s

95th percentile per-packet one-way delay: 51.197 ms

Loss rate: 0.03%

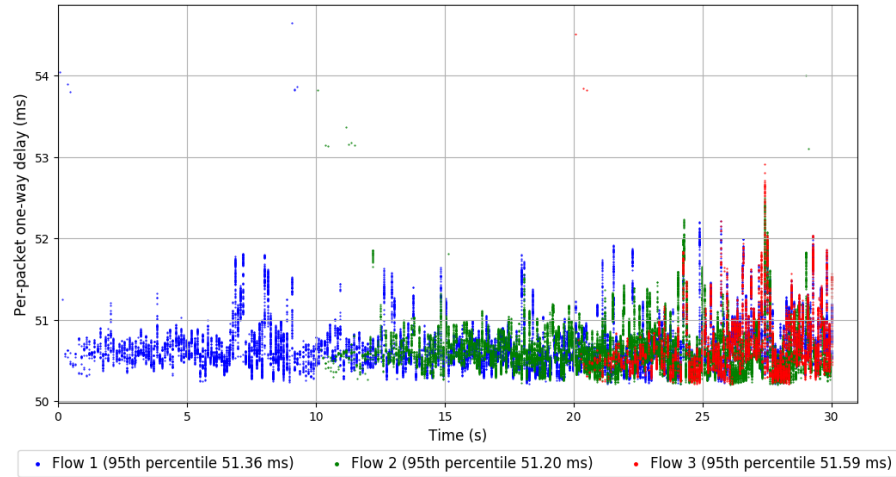
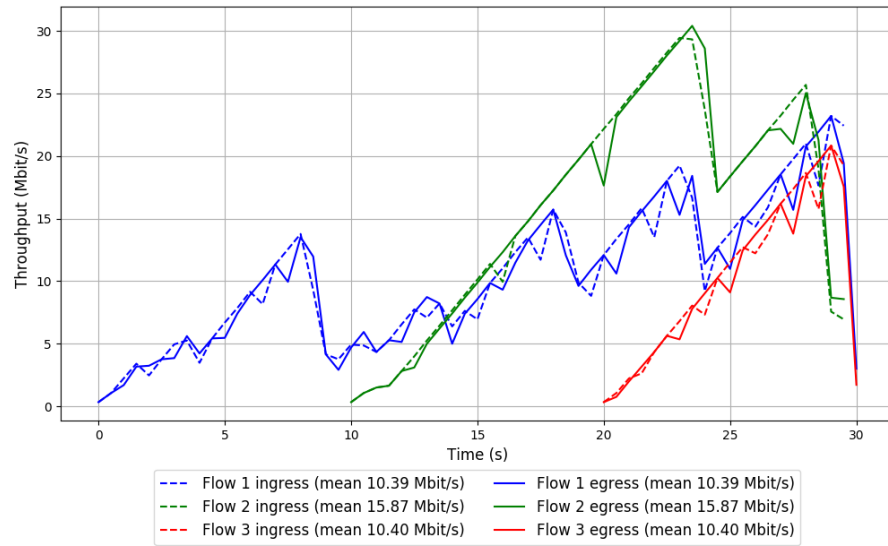
-- Flow 3:

Average throughput: 10.40 Mbit/s

95th percentile per-packet one-way delay: 51.589 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-09-22 11:15:28

End at: 2017-09-22 11:15:58

Below is generated by plot.py at 2017-09-22 12:52:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.42 Mbit/s

95th percentile per-packet one-way delay: 51.181 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 51.191 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 51.153 ms

Loss rate: 0.06%

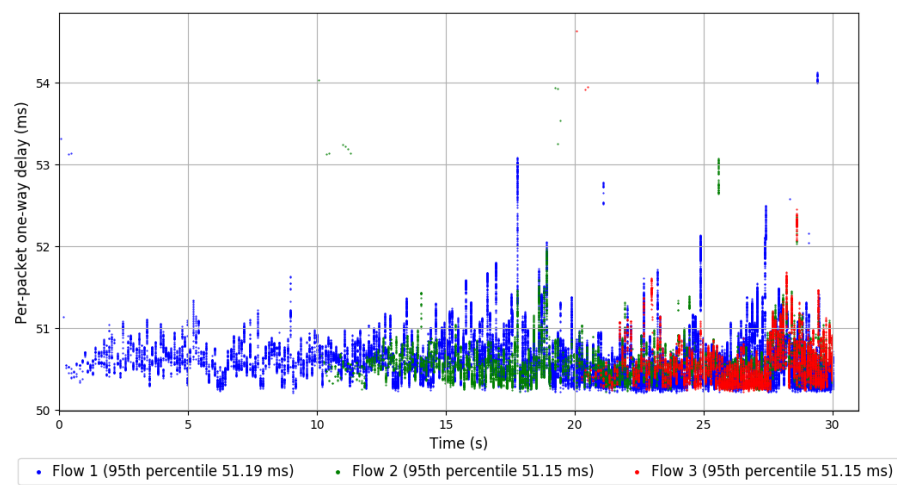
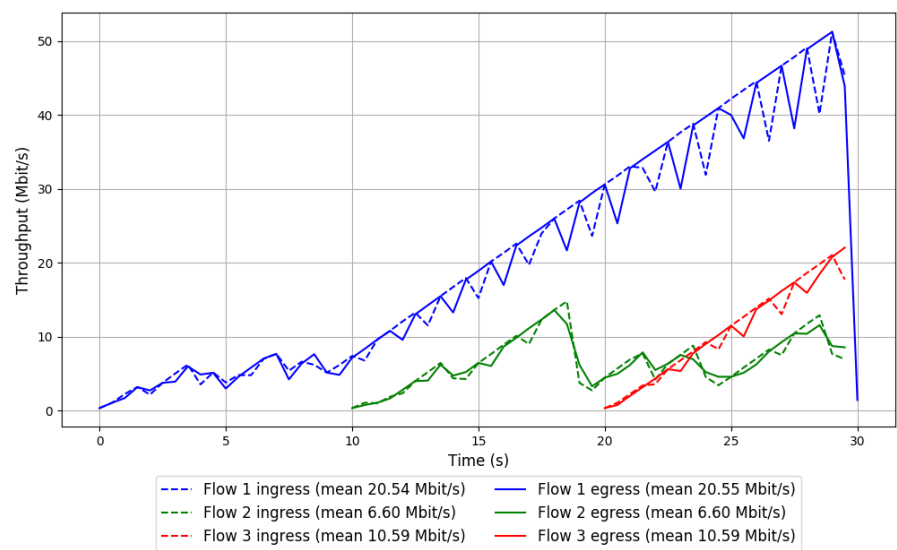
-- Flow 3:

Average throughput: 10.59 Mbit/s

95th percentile per-packet one-way delay: 51.145 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

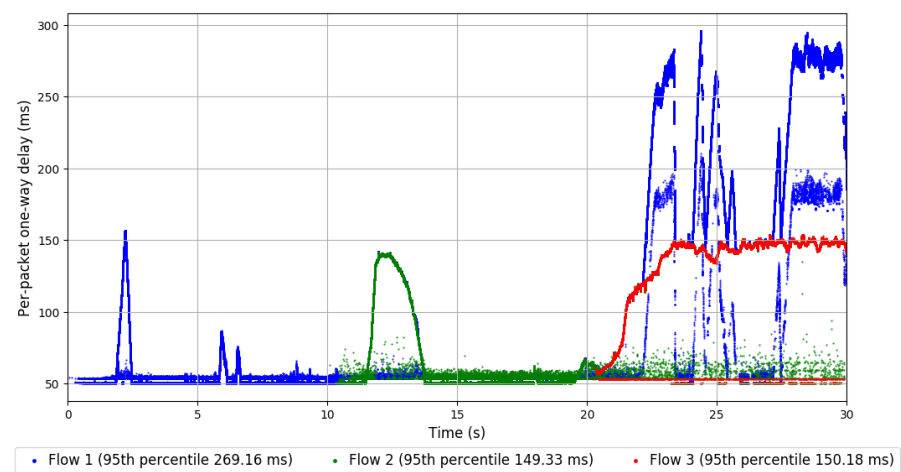
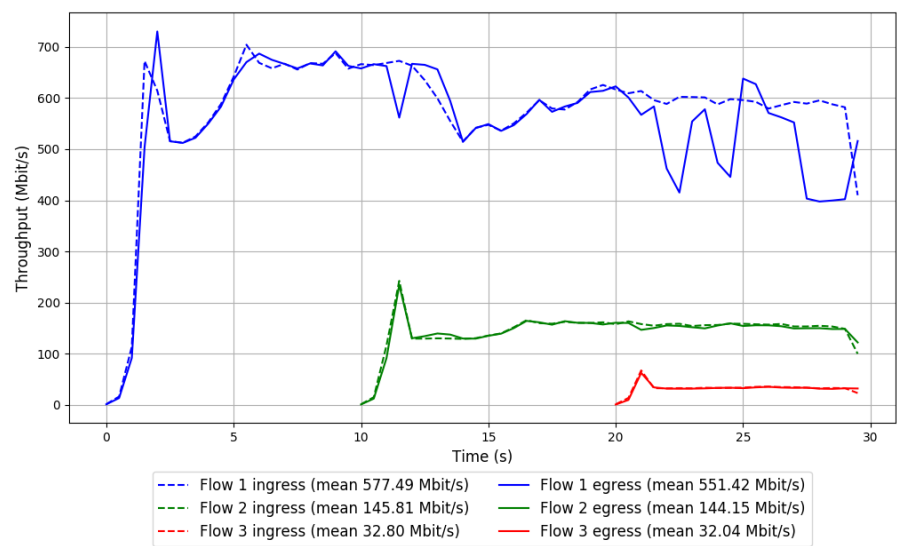


```
Run 1: Statistics of PCC

Start at: 2017-09-22 09:28:34
End at: 2017-09-22 09:29:04

# Below is generated by plot.py at 2017-09-22 13:02:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 657.56 Mbit/s
95th percentile per-packet one-way delay: 261.494 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 551.42 Mbit/s
95th percentile per-packet one-way delay: 269.162 ms
Loss rate: 4.23%
-- Flow 2:
Average throughput: 144.15 Mbit/s
95th percentile per-packet one-way delay: 149.333 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 150.175 ms
Loss rate: 1.44%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-22 09:40:58

End at: 2017-09-22 09:41:28

Below is generated by plot.py at 2017-09-22 13:02:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 661.71 Mbit/s

95th percentile per-packet one-way delay: 142.106 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 580.28 Mbit/s

95th percentile per-packet one-way delay: 142.048 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 120.36 Mbit/s

95th percentile per-packet one-way delay: 142.489 ms

Loss rate: 0.10%

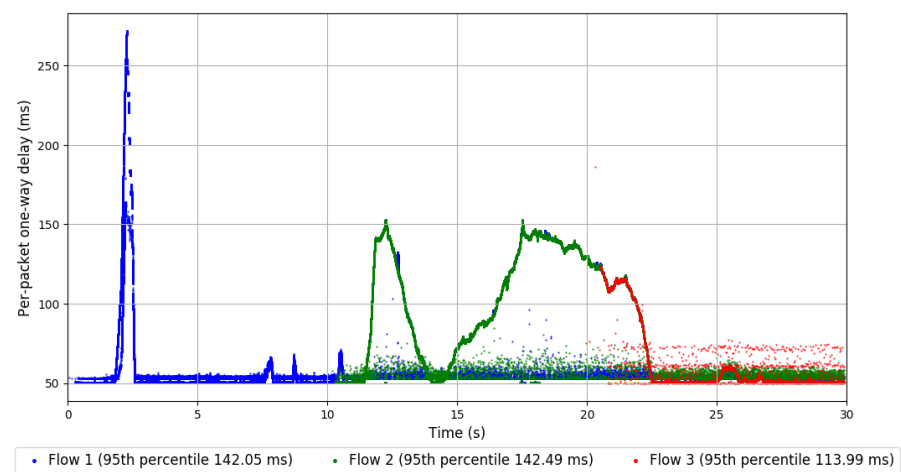
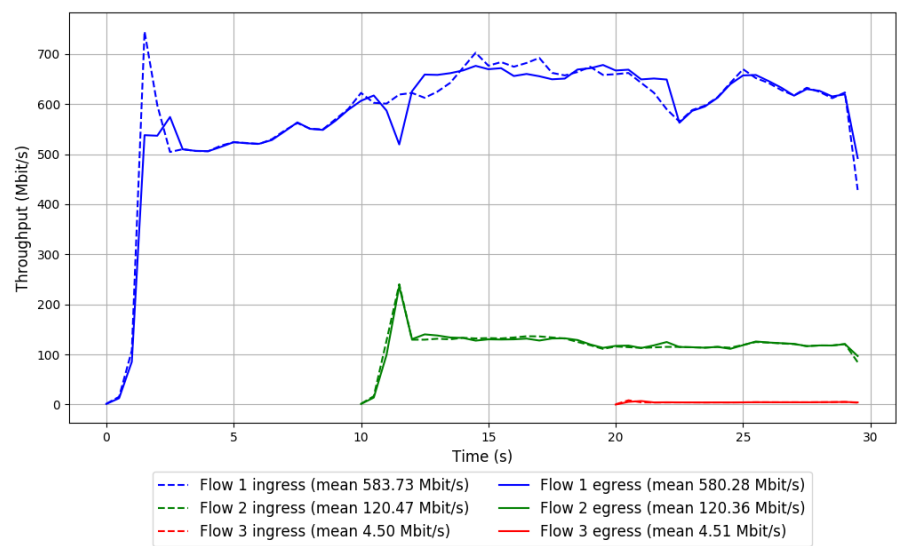
-- Flow 3:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 113.987 ms

Loss rate: 0.08%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-09-22 09:53:41

End at: 2017-09-22 09:54:11

Below is generated by plot.py at 2017-09-22 13:02:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 674.02 Mbit/s

95th percentile per-packet one-way delay: 145.613 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 604.72 Mbit/s

95th percentile per-packet one-way delay: 145.476 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 146.715 ms

Loss rate: 0.26%

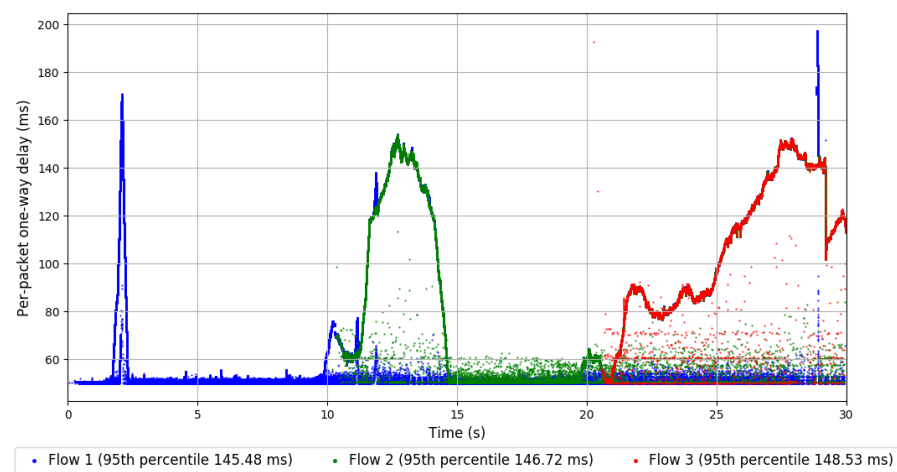
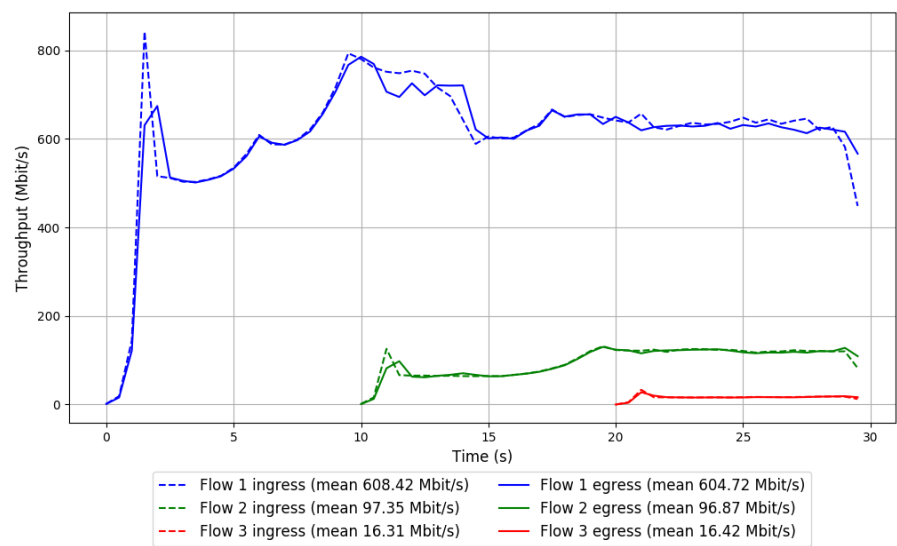
-- Flow 3:

Average throughput: 16.42 Mbit/s

95th percentile per-packet one-way delay: 148.532 ms

Loss rate: 0.16%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-09-22 10:06:09

End at: 2017-09-22 10:06:39

Below is generated by plot.py at 2017-09-22 13:02:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 658.37 Mbit/s

95th percentile per-packet one-way delay: 236.193 ms

Loss rate: 3.64%

-- Flow 1:

Average throughput: 524.93 Mbit/s

95th percentile per-packet one-way delay: 259.630 ms

Loss rate: 3.45%

-- Flow 2:

Average throughput: 142.13 Mbit/s

95th percentile per-packet one-way delay: 151.664 ms

Loss rate: 3.79%

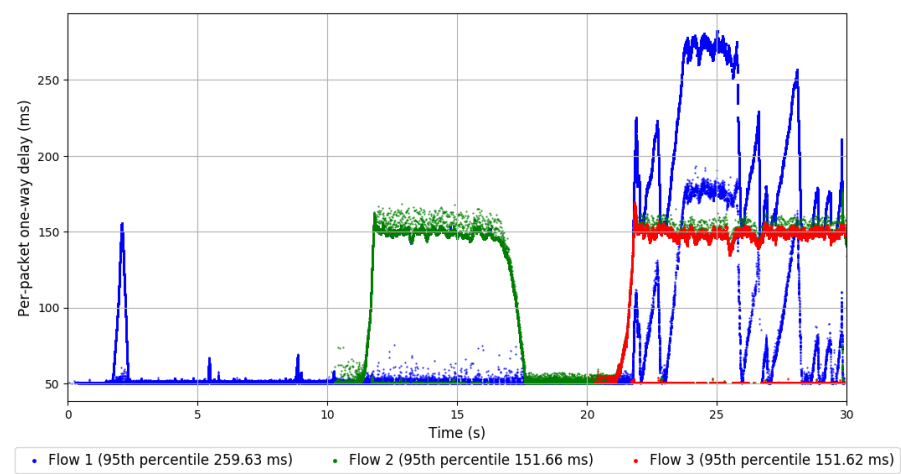
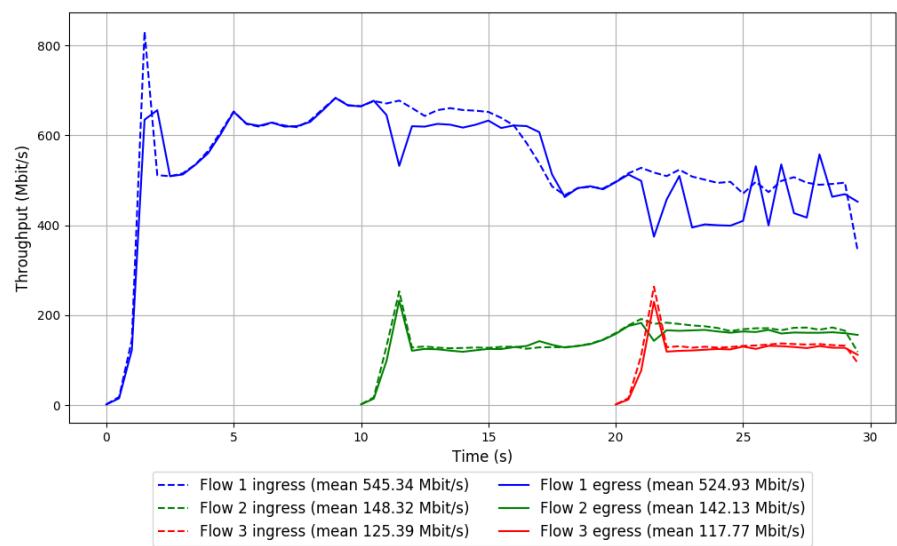
-- Flow 3:

Average throughput: 117.77 Mbit/s

95th percentile per-packet one-way delay: 151.625 ms

Loss rate: 5.75%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-09-22 10:18:40

End at: 2017-09-22 10:19:10

Below is generated by plot.py at 2017-09-22 13:04:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 704.11 Mbit/s

95th percentile per-packet one-way delay: 210.569 ms

Loss rate: 3.91%

-- Flow 1:

Average throughput: 660.39 Mbit/s

95th percentile per-packet one-way delay: 211.424 ms

Loss rate: 4.00%

-- Flow 2:

Average throughput: 59.29 Mbit/s

95th percentile per-packet one-way delay: 148.721 ms

Loss rate: 2.64%

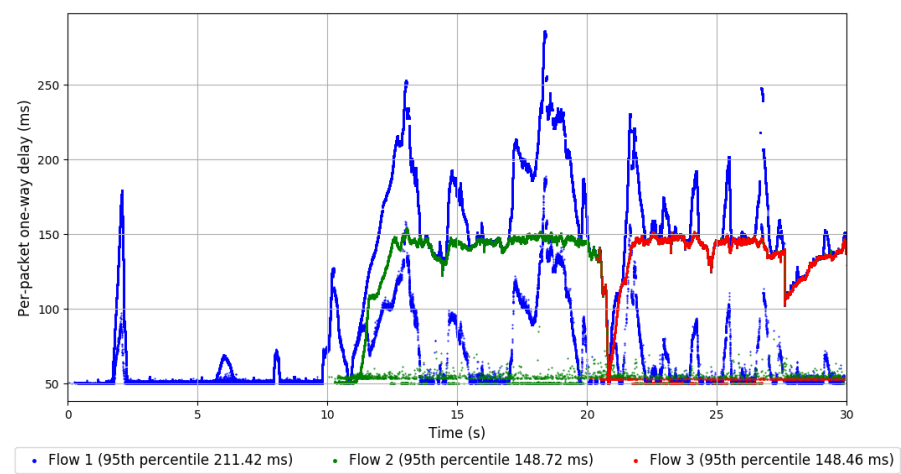
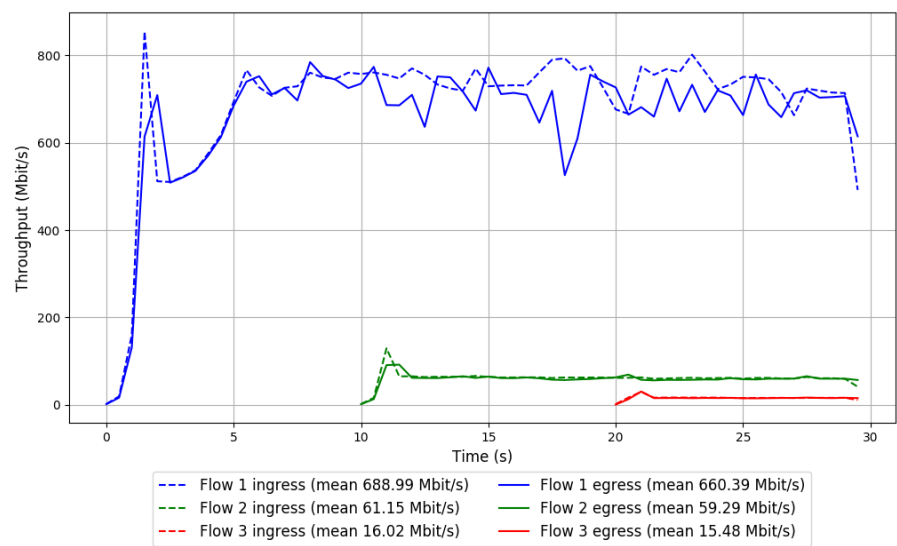
-- Flow 3:

Average throughput: 15.48 Mbit/s

95th percentile per-packet one-way delay: 148.456 ms

Loss rate: 2.64%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-09-22 10:31:04

End at: 2017-09-22 10:31:34

Below is generated by plot.py at 2017-09-22 13:04:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 677.46 Mbit/s

95th percentile per-packet one-way delay: 146.776 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 565.53 Mbit/s

95th percentile per-packet one-way delay: 146.702 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 116.00 Mbit/s

95th percentile per-packet one-way delay: 147.044 ms

Loss rate: 1.45%

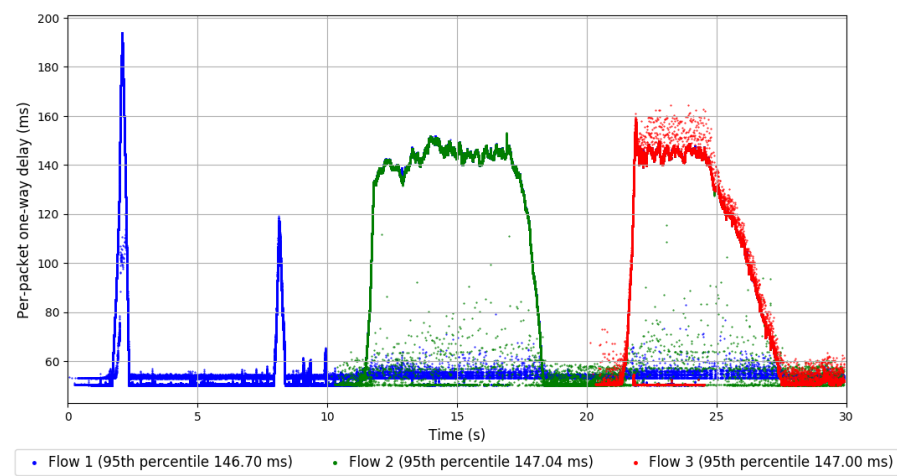
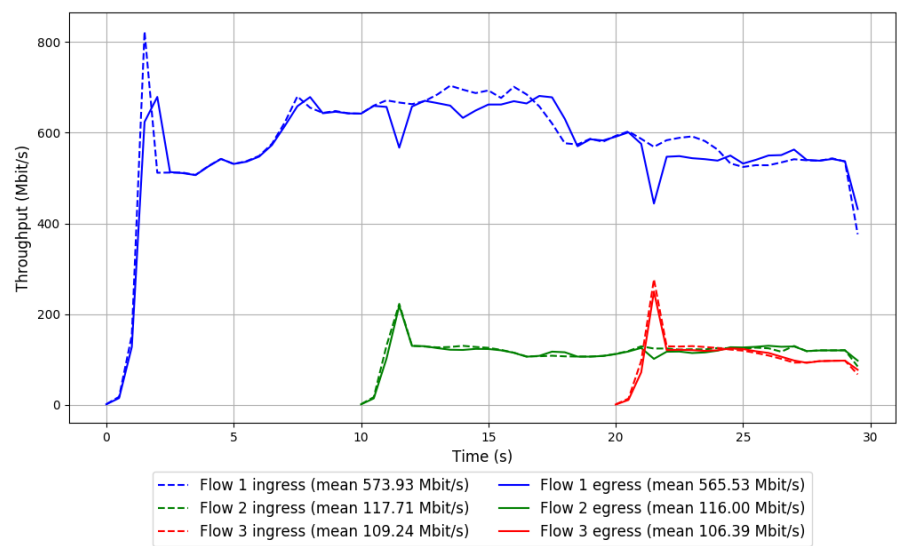
-- Flow 3:

Average throughput: 106.39 Mbit/s

95th percentile per-packet one-way delay: 146.999 ms

Loss rate: 2.76%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-09-22 10:43:24

End at: 2017-09-22 10:43:54

Below is generated by plot.py at 2017-09-22 13:04:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 646.41 Mbit/s

95th percentile per-packet one-way delay: 237.132 ms

Loss rate: 6.96%

-- Flow 1:

Average throughput: 570.33 Mbit/s

95th percentile per-packet one-way delay: 240.751 ms

Loss rate: 7.39%

-- Flow 2:

Average throughput: 113.31 Mbit/s

95th percentile per-packet one-way delay: 153.072 ms

Loss rate: 3.57%

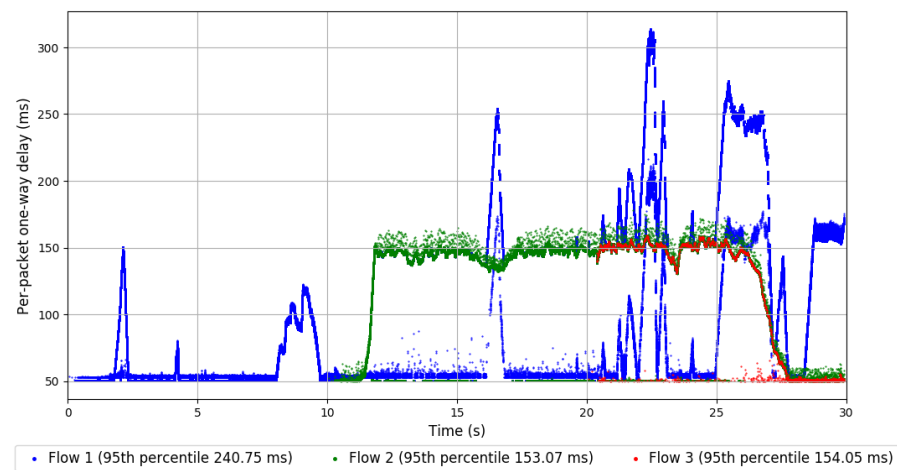
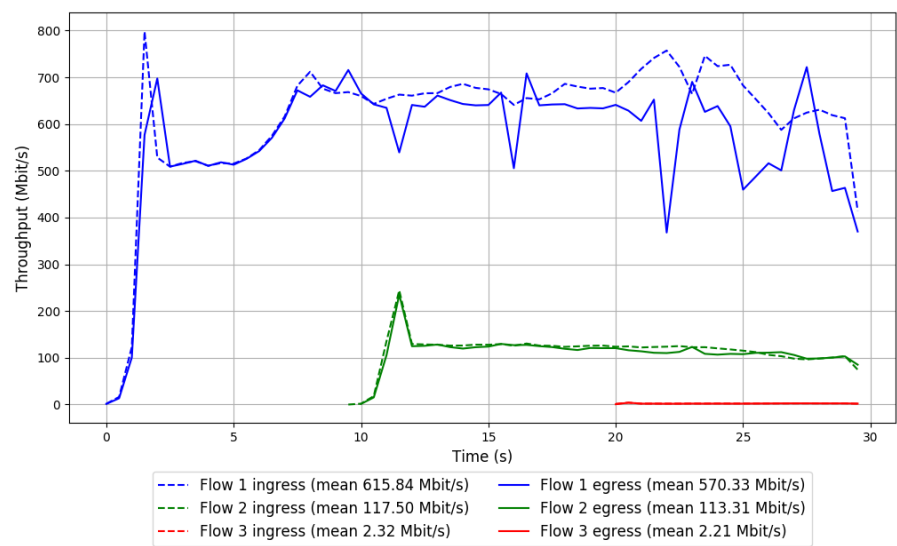
-- Flow 3:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 154.048 ms

Loss rate: 4.63%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-09-22 10:55:50

End at: 2017-09-22 10:56:20

Below is generated by plot.py at 2017-09-22 13:04:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 663.73 Mbit/s

95th percentile per-packet one-way delay: 237.019 ms

Loss rate: 5.32%

-- Flow 1:

Average throughput: 576.78 Mbit/s

95th percentile per-packet one-way delay: 242.267 ms

Loss rate: 5.78%

-- Flow 2:

Average throughput: 115.33 Mbit/s

95th percentile per-packet one-way delay: 150.575 ms

Loss rate: 2.38%

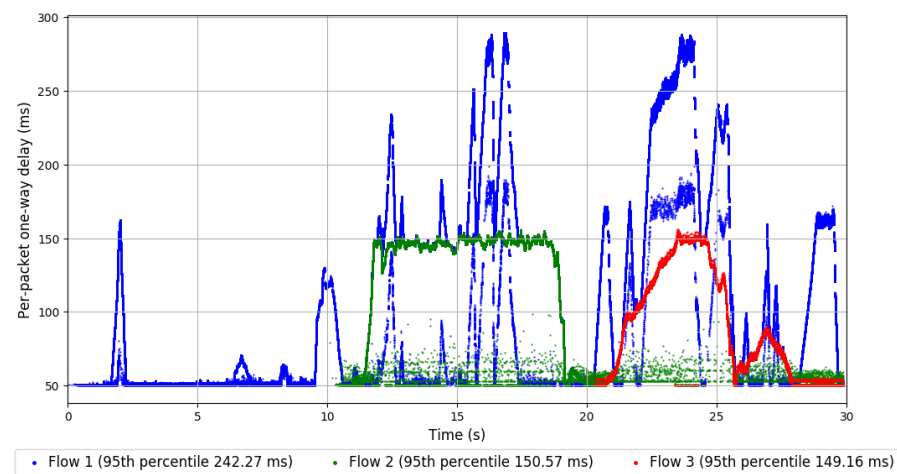
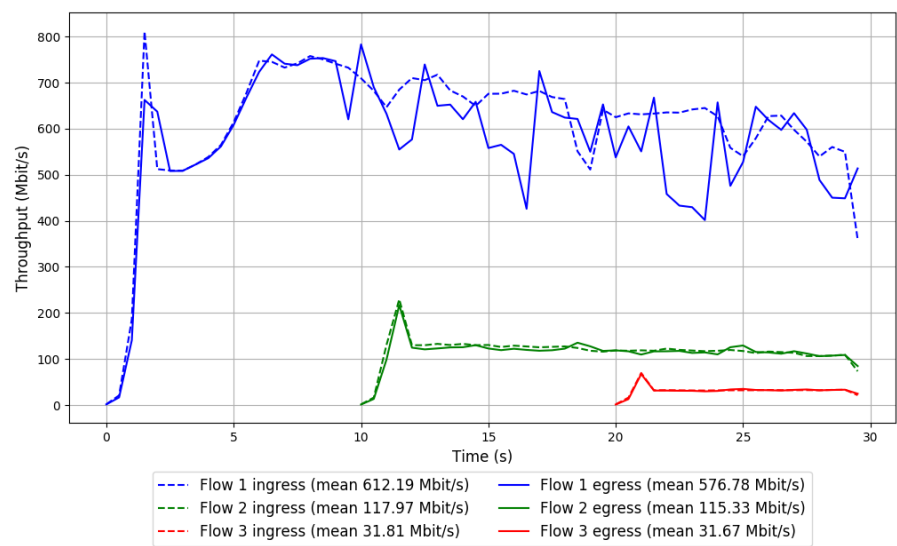
-- Flow 3:

Average throughput: 31.67 Mbit/s

95th percentile per-packet one-way delay: 149.156 ms

Loss rate: 0.49%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-09-22 11:08:23

End at: 2017-09-22 11:08:53

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 701.18 Mbit/s

95th percentile per-packet one-way delay: 154.586 ms

Loss rate: 2.46%

-- Flow 1:

Average throughput: 656.09 Mbit/s

95th percentile per-packet one-way delay: 156.078 ms

Loss rate: 2.50%

-- Flow 2:

Average throughput: 61.15 Mbit/s

95th percentile per-packet one-way delay: 149.112 ms

Loss rate: 1.88%

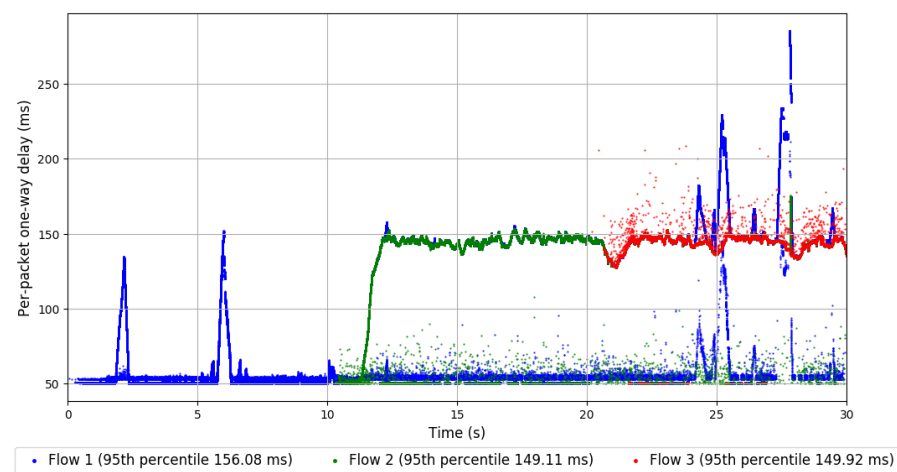
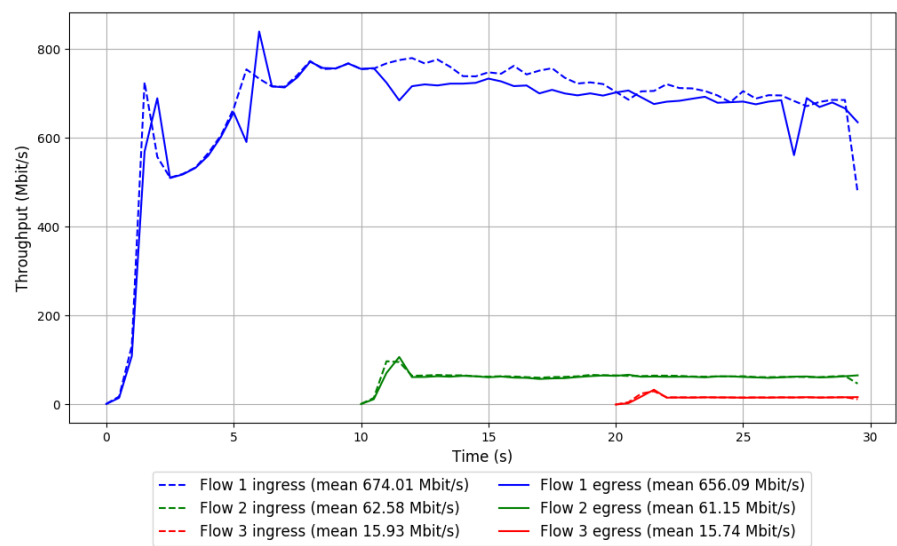
-- Flow 3:

Average throughput: 15.74 Mbit/s

95th percentile per-packet one-way delay: 149.923 ms

Loss rate: 1.39%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-22 11:20:58

End at: 2017-09-22 11:21:28

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 665.73 Mbit/s

95th percentile per-packet one-way delay: 144.244 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 600.92 Mbit/s

95th percentile per-packet one-way delay: 143.990 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 66.40 Mbit/s

95th percentile per-packet one-way delay: 144.419 ms

Loss rate: 0.21%

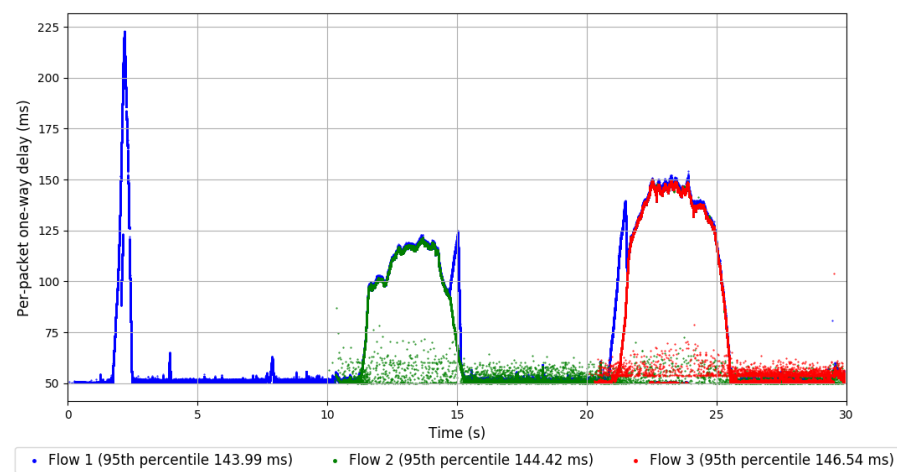
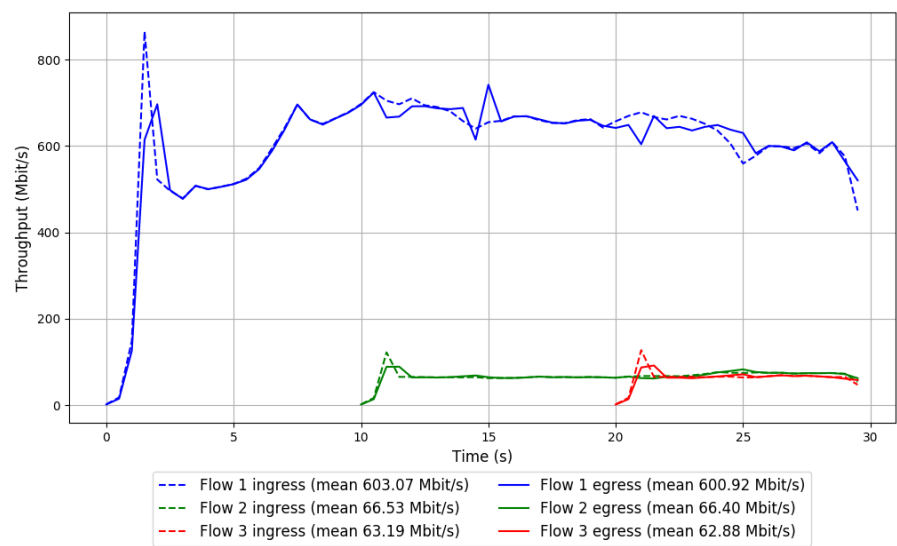
-- Flow 3:

Average throughput: 62.88 Mbit/s

95th percentile per-packet one-way delay: 146.543 ms

Loss rate: 0.49%

Run 10: Report of PCC — Data Link

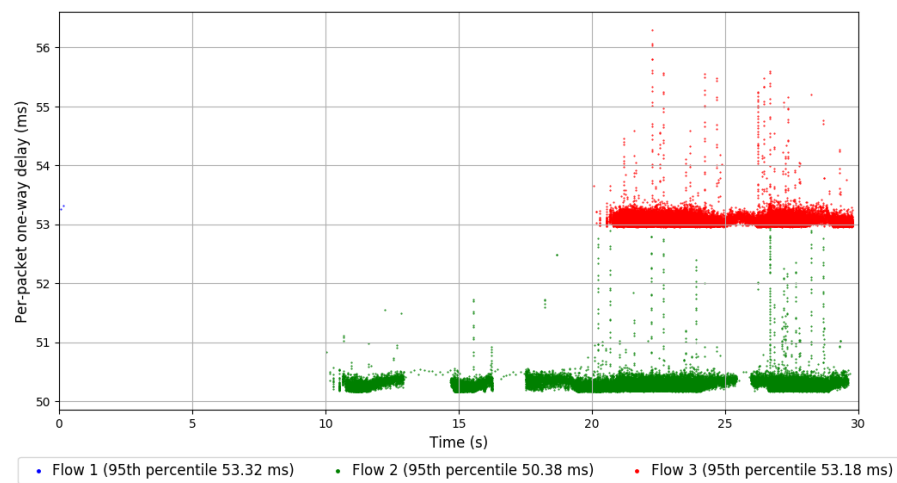
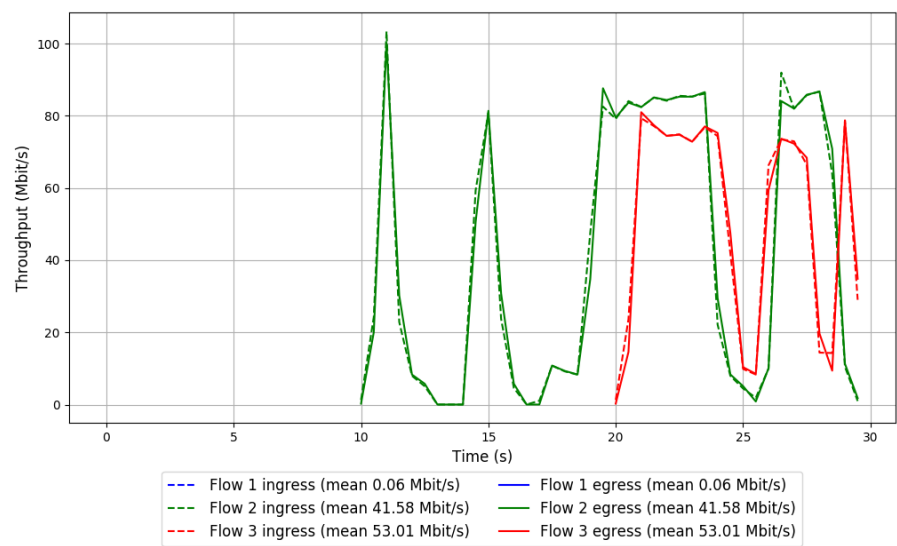


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-22 09:30:23
End at: 2017-09-22 09:30:53

# Below is generated by plot.py at 2017-09-22 13:14:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.79 Mbit/s
95th percentile per-packet one-way delay: 53.125 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.58 Mbit/s
95th percentile per-packet one-way delay: 50.377 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.01 Mbit/s
95th percentile per-packet one-way delay: 53.183 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-22 09:42:46

End at: 2017-09-22 09:43:16

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.96 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.13 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 65.56 Mbit/s

95th percentile per-packet one-way delay: 50.342 ms

Loss rate: 0.00%

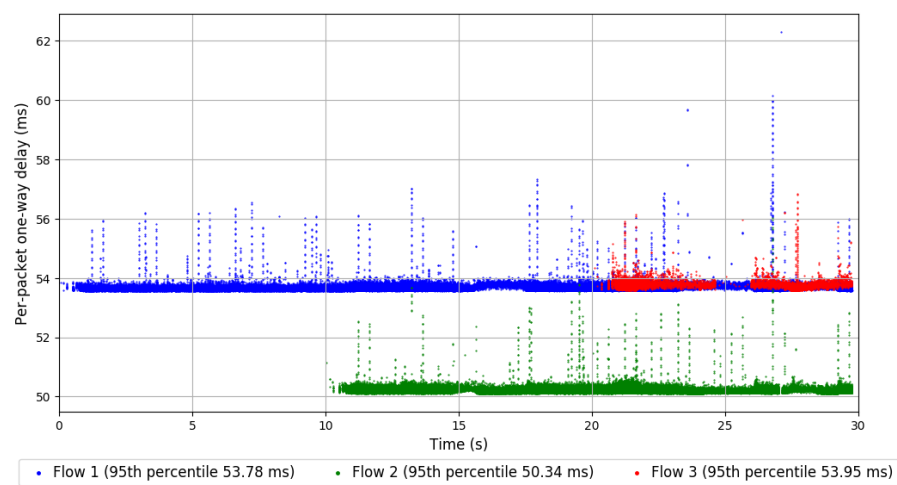
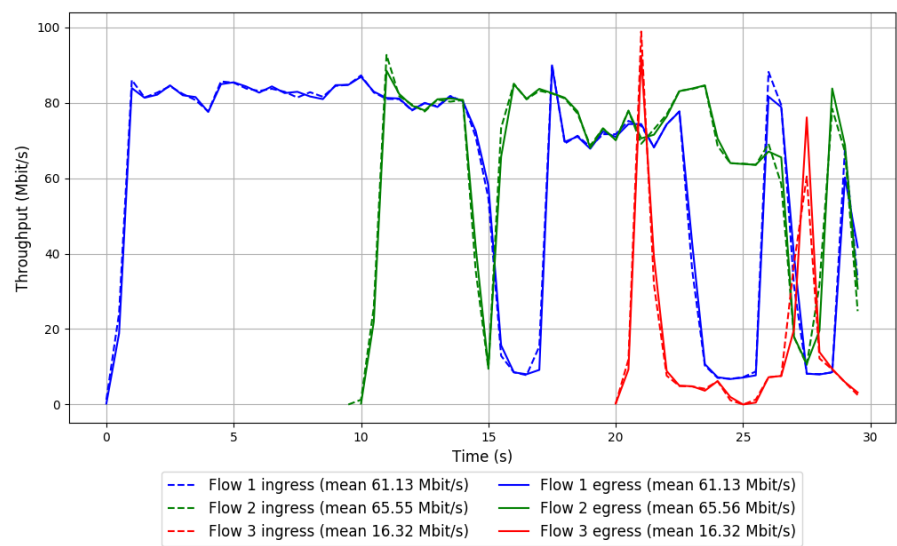
-- Flow 3:

Average throughput: 16.32 Mbit/s

95th percentile per-packet one-way delay: 53.955 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-09-22 09:55:28

End at: 2017-09-22 09:55:58

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.29 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.08 Mbit/s

95th percentile per-packet one-way delay: 53.829 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.17 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.00%

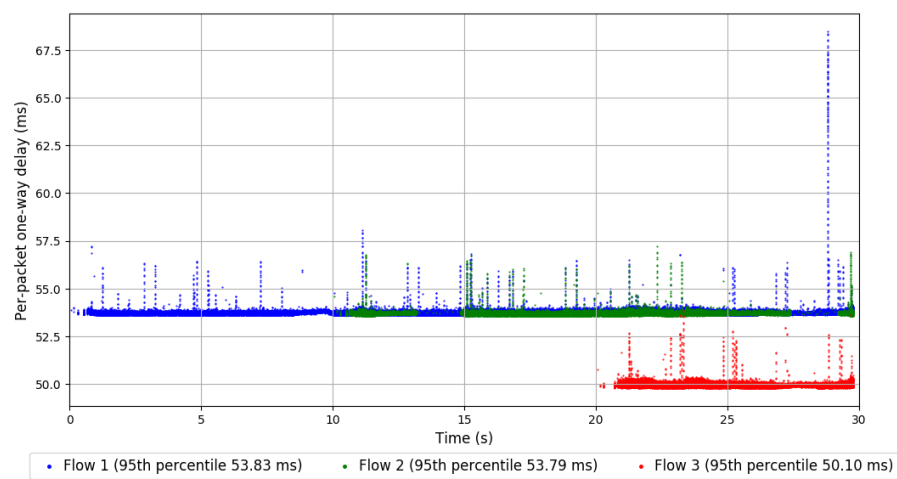
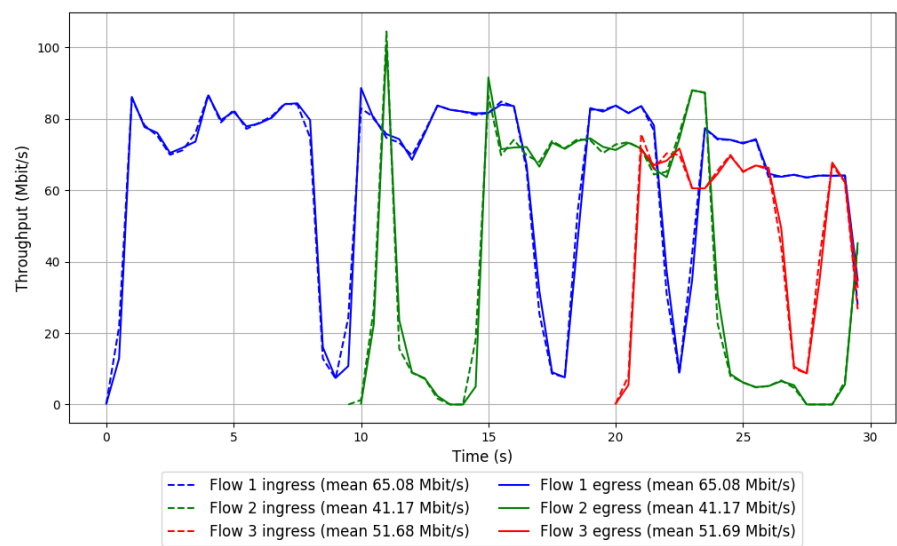
-- Flow 3:

Average throughput: 51.69 Mbit/s

95th percentile per-packet one-way delay: 50.103 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-22 10:07:57

End at: 2017-09-22 10:08:27

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 53.146 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.91 Mbit/s

95th percentile per-packet one-way delay: 50.355 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.32 Mbit/s

95th percentile per-packet one-way delay: 53.185 ms

Loss rate: 0.00%

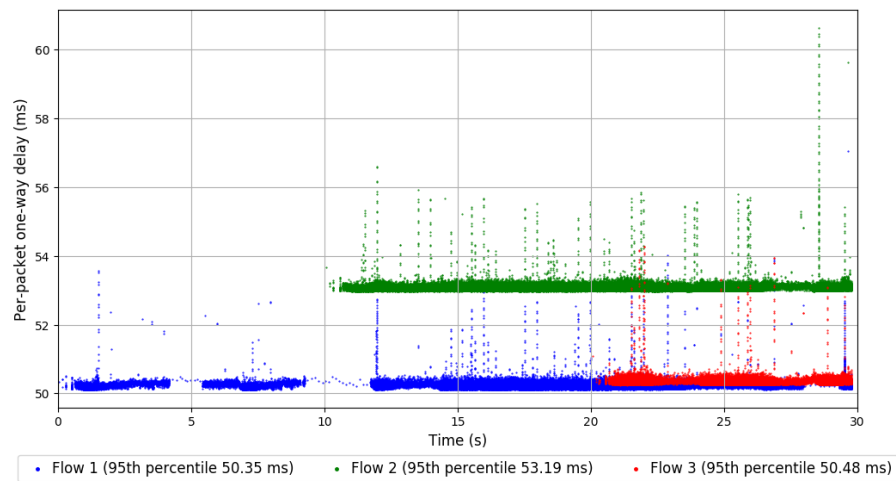
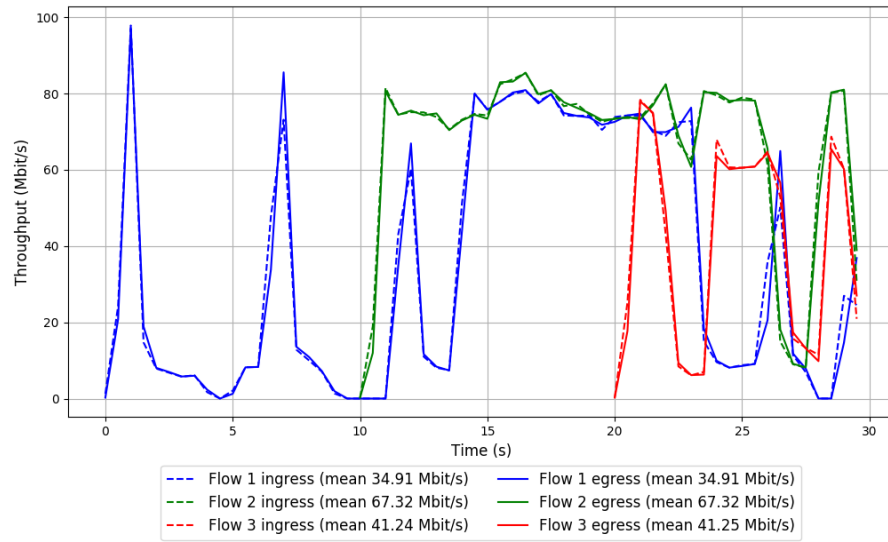
-- Flow 3:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 50.481 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-22 10:20:30

End at: 2017-09-22 10:21:00

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.63 Mbit/s

95th percentile per-packet one-way delay: 53.155 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.17 Mbit/s

95th percentile per-packet one-way delay: 53.158 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.74 Mbit/s

95th percentile per-packet one-way delay: 53.177 ms

Loss rate: 0.00%

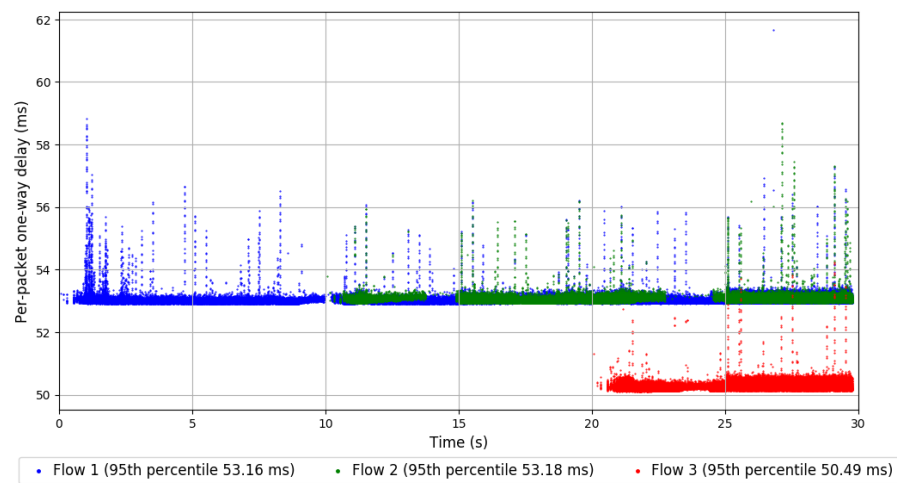
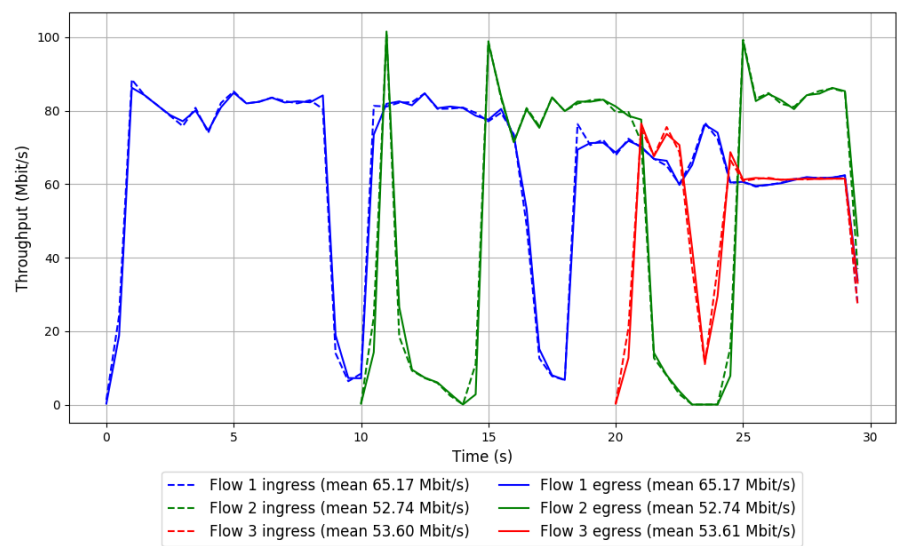
-- Flow 3:

Average throughput: 53.61 Mbit/s

95th percentile per-packet one-way delay: 50.489 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-22 10:32:53

End at: 2017-09-22 10:33:23

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 53.183 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 48.46 Mbit/s

95th percentile per-packet one-way delay: 53.164 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 17.32 Mbit/s

95th percentile per-packet one-way delay: 53.237 ms

Loss rate: 0.00%

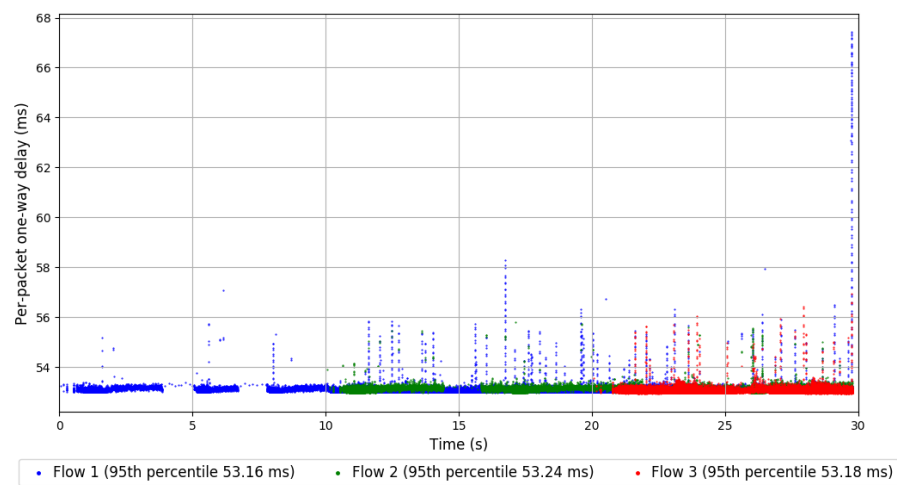
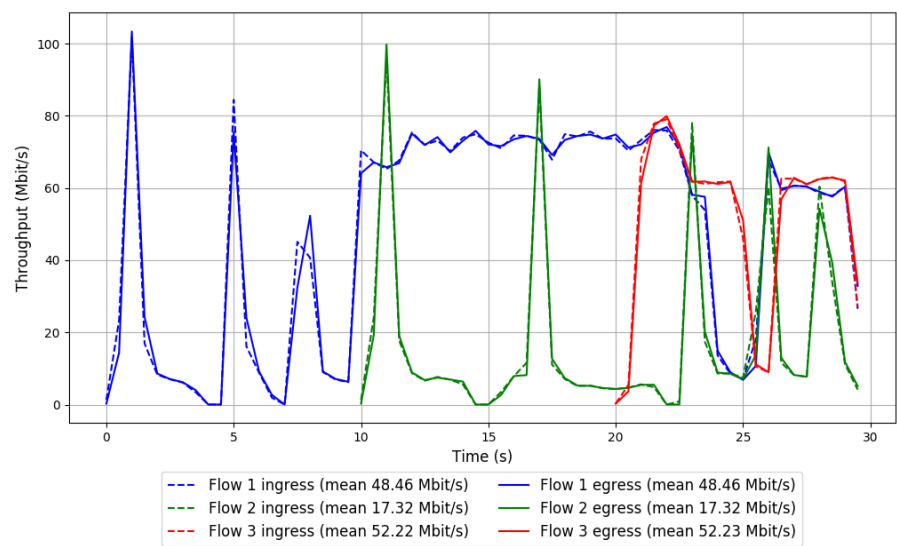
-- Flow 3:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 53.178 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-09-22 10:45:12

End at: 2017-09-22 10:45:42

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 99.89 Mbit/s

95th percentile per-packet one-way delay: 53.107 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.39 Mbit/s

95th percentile per-packet one-way delay: 53.134 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.15 Mbit/s

95th percentile per-packet one-way delay: 50.447 ms

Loss rate: 0.00%

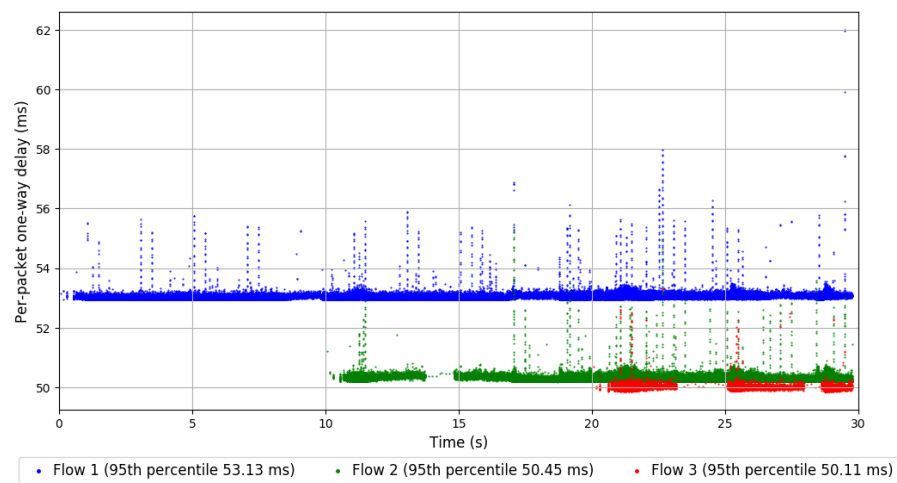
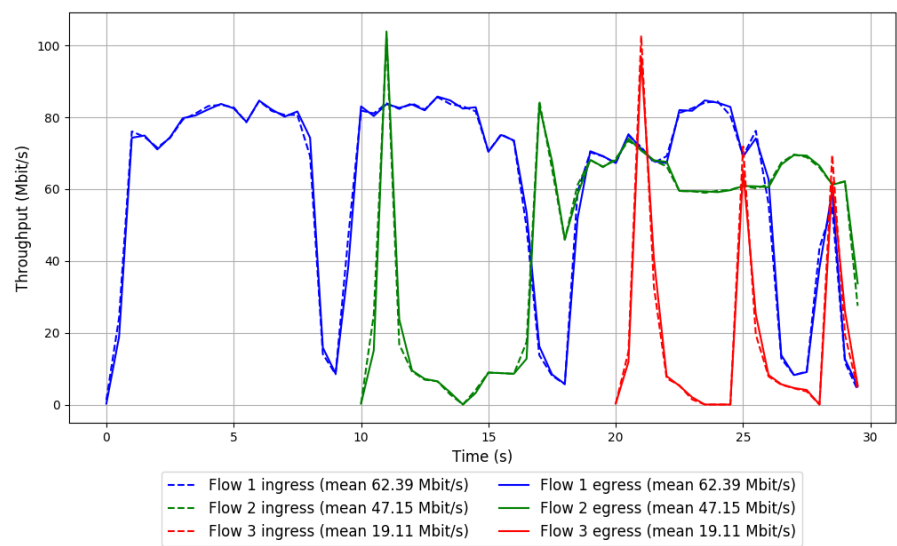
-- Flow 3:

Average throughput: 19.11 Mbit/s

95th percentile per-packet one-way delay: 50.111 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-22 10:57:39

End at: 2017-09-22 10:58:09

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.87 Mbit/s

95th percentile per-packet one-way delay: 53.142 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 73.31 Mbit/s

95th percentile per-packet one-way delay: 50.351 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.26 Mbit/s

95th percentile per-packet one-way delay: 53.229 ms

Loss rate: 0.00%

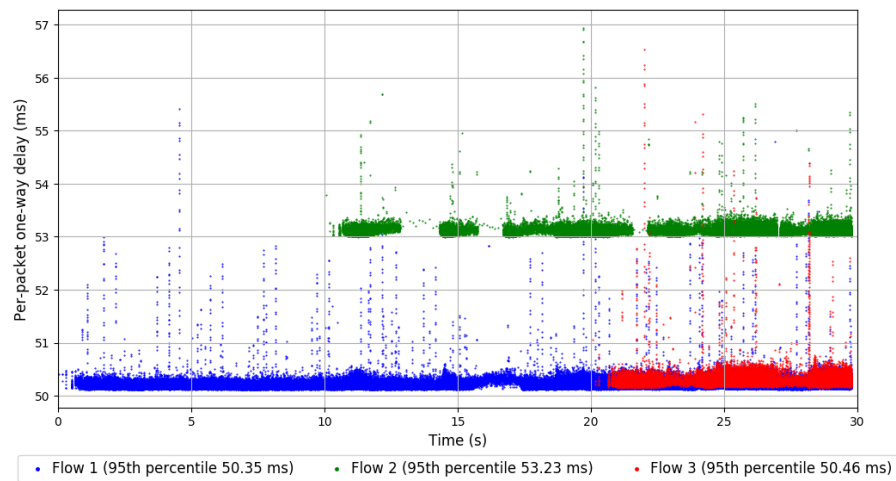
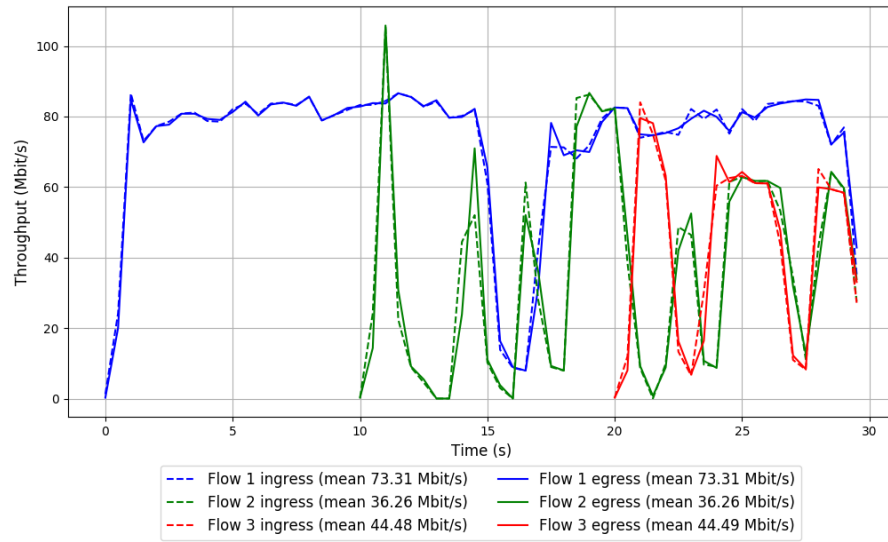
-- Flow 3:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 50.459 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-22 11:10:13

End at: 2017-09-22 11:10:43

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 111.12 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.80 Mbit/s

95th percentile per-packet one-way delay: 49.991 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.53 Mbit/s

95th percentile per-packet one-way delay: 50.355 ms

Loss rate: 0.00%

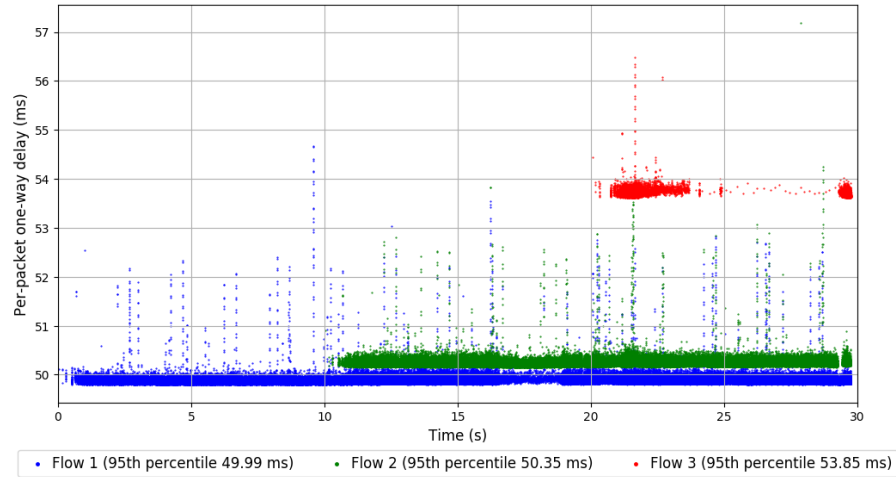
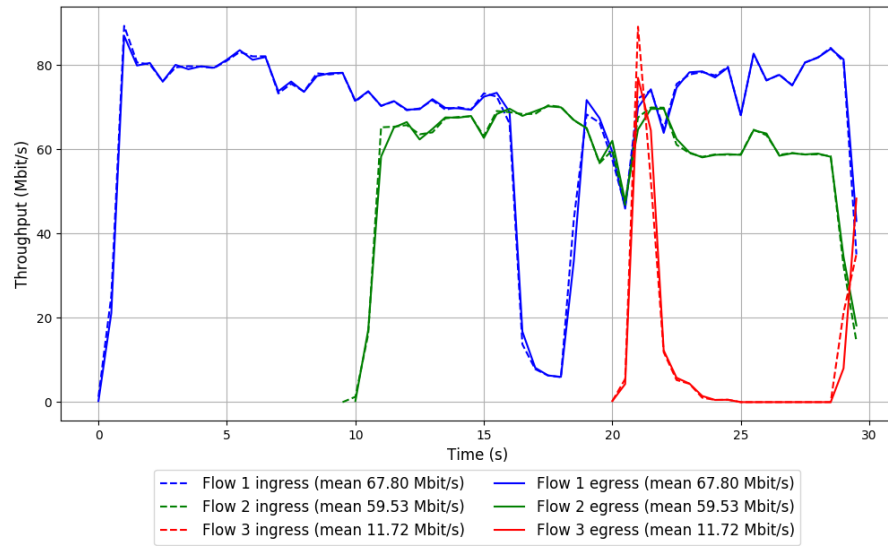
-- Flow 3:

Average throughput: 11.72 Mbit/s

95th percentile per-packet one-way delay: 53.854 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-22 11:22:46

End at: 2017-09-22 11:23:16

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 119.40 Mbit/s

95th percentile per-packet one-way delay: 53.779 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.27 Mbit/s

95th percentile per-packet one-way delay: 53.132 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.03 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.00%

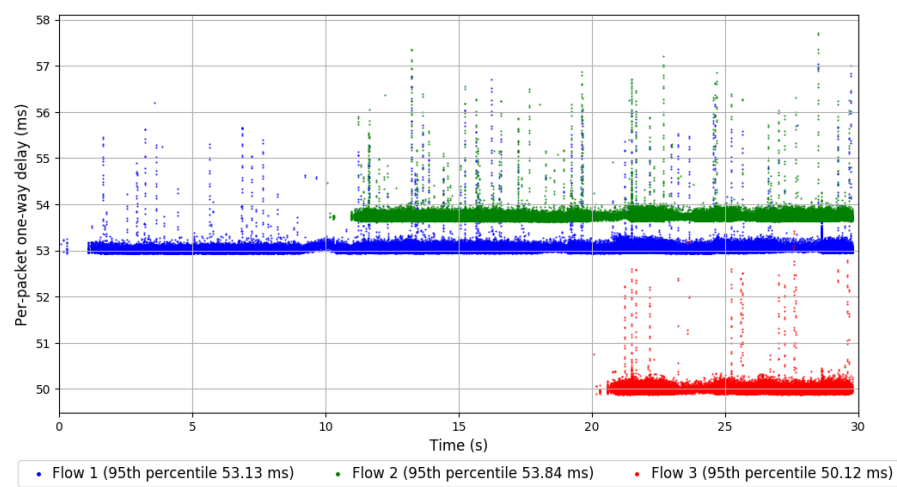
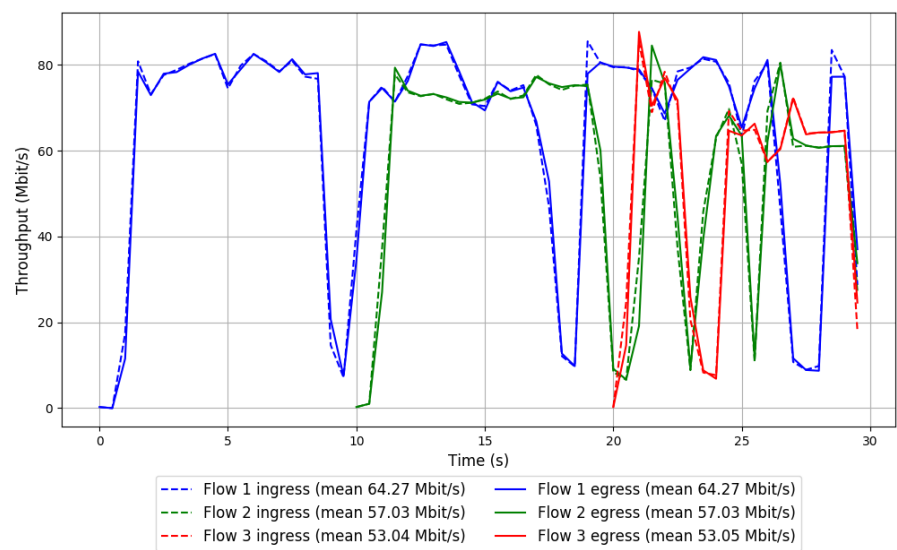
-- Flow 3:

Average throughput: 53.05 Mbit/s

95th percentile per-packet one-way delay: 50.118 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

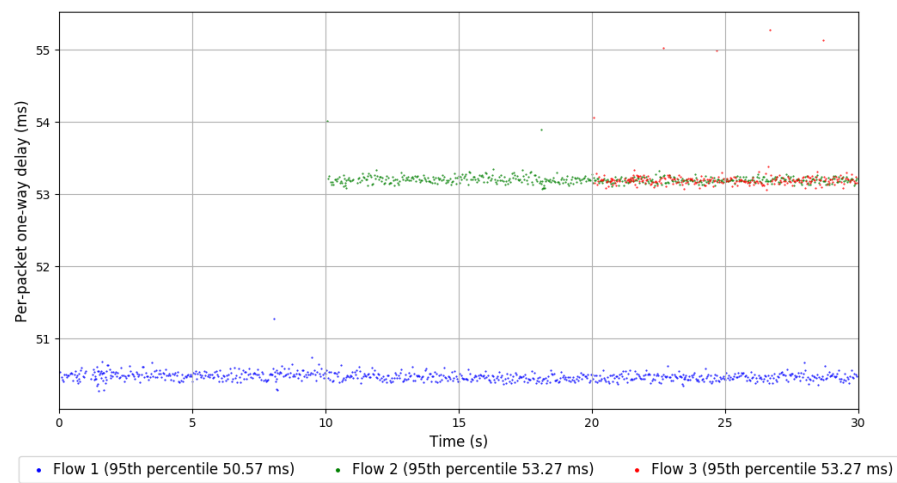
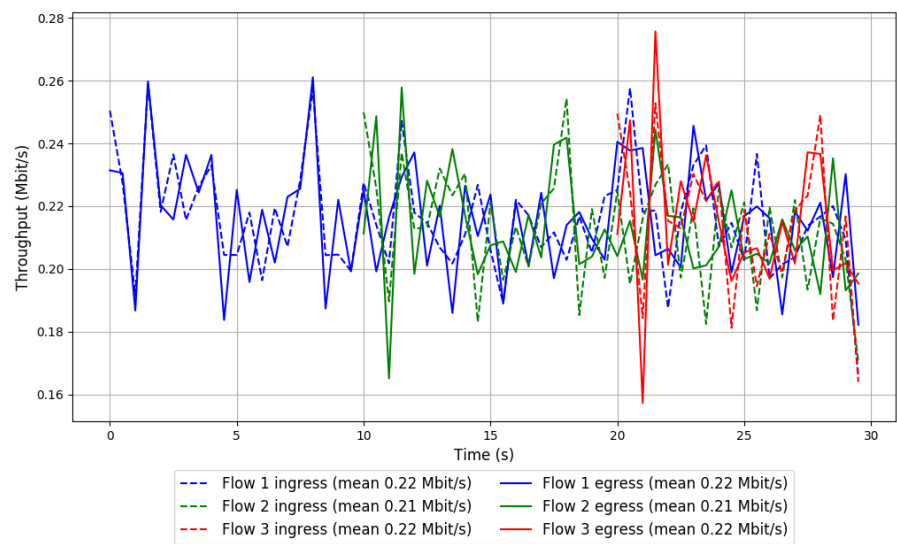


```
Run 1: Statistics of SCReAM

Start at: 2017-09-22 09:27:55
End at: 2017-09-22 09:28:25

# Below is generated by plot.py at 2017-09-22 13:14:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.571 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.275 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

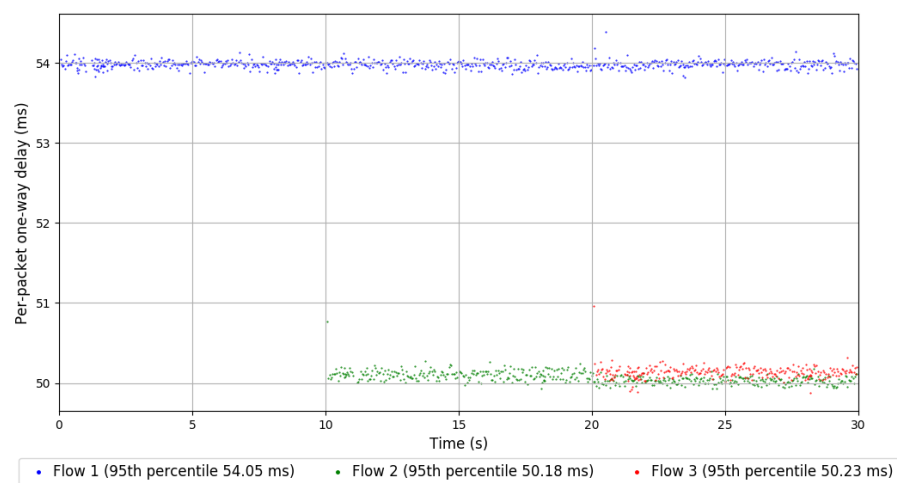
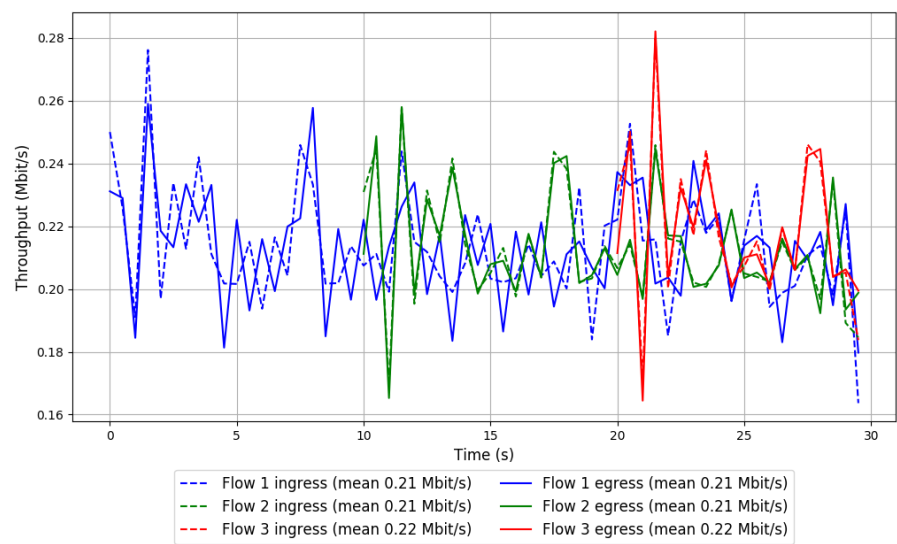


```
Run 2: Statistics of SReAM

Start at: 2017-09-22 09:40:18
End at: 2017-09-22 09:40:48

# Below is generated by plot.py at 2017-09-22 13:14:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.048 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.184 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.231 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-22 09:53:01

End at: 2017-09-22 09:53:31

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.225 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.152 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.252 ms

Loss rate: 0.00%

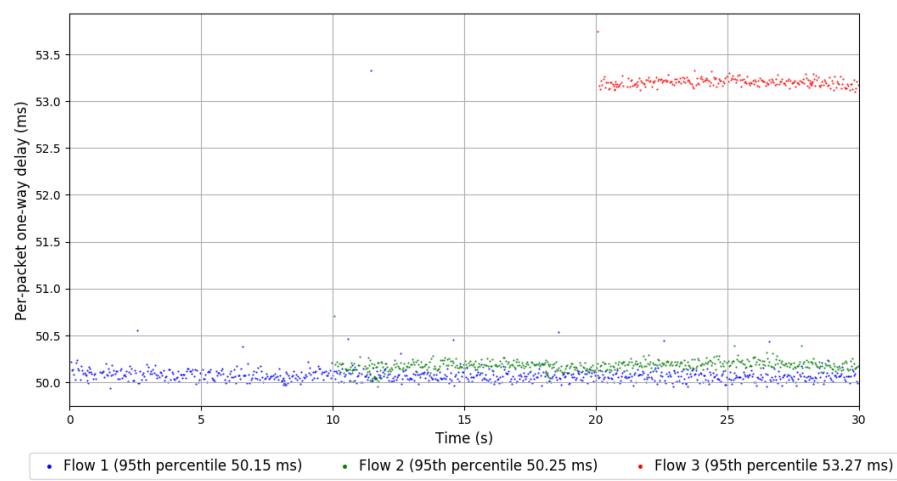
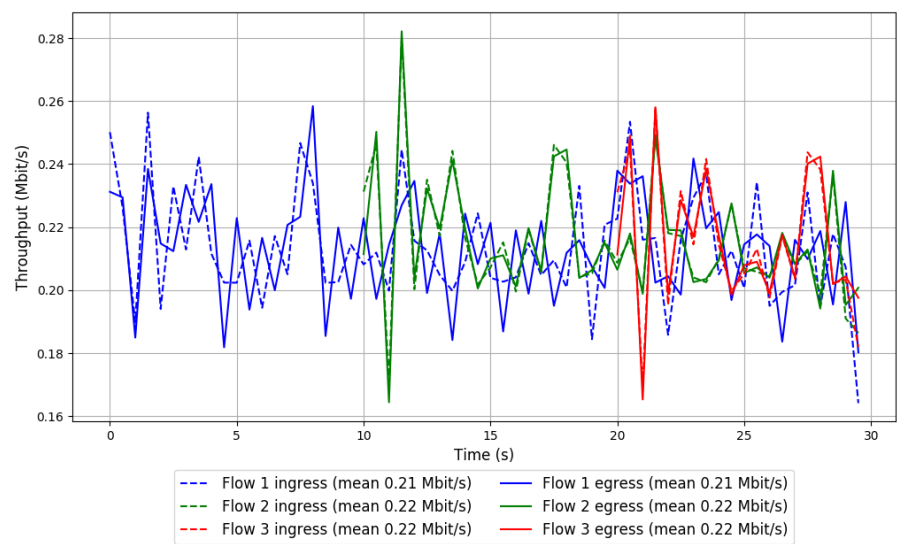
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.270 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2017-09-22 10:05:29

End at: 2017-09-22 10:05:59

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.891 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.490 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.926 ms

Loss rate: 0.00%

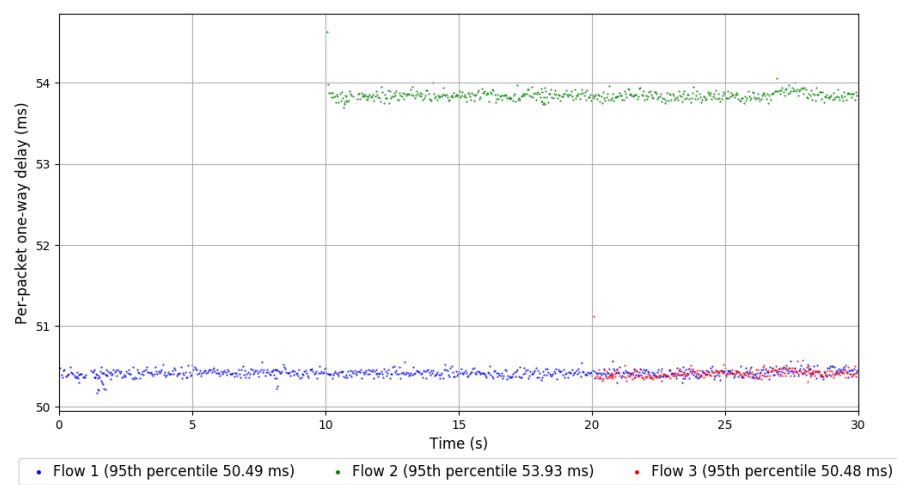
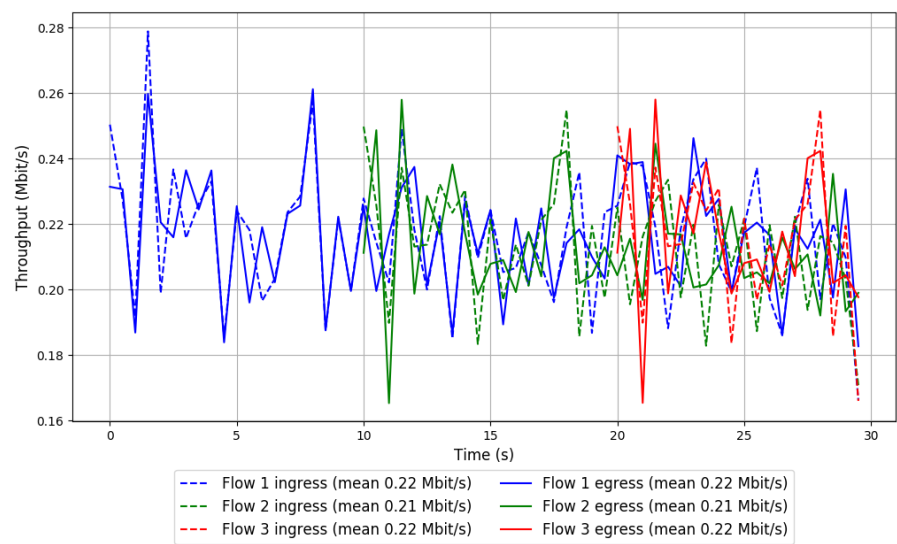
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-09-22 10:18:01

End at: 2017-09-22 10:18:31

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.553 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.585 ms

Loss rate: 0.00%

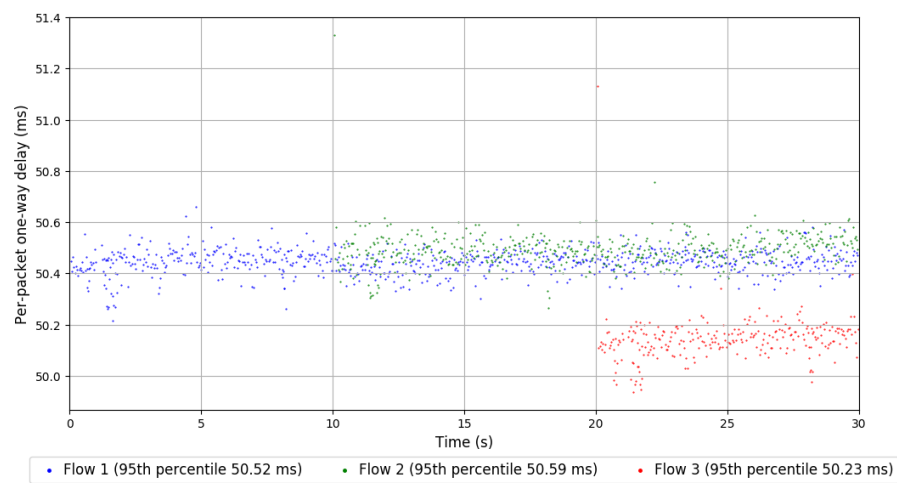
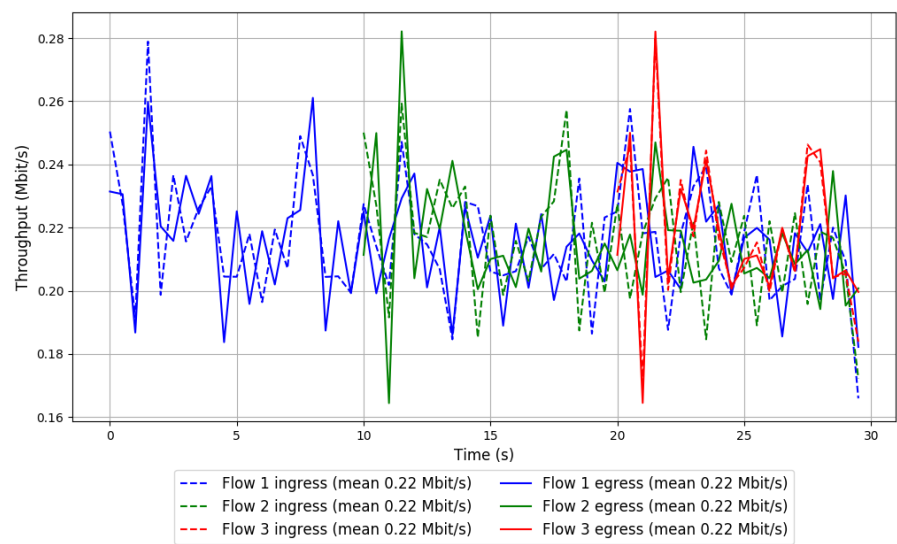
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.228 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-09-22 10:30:25

End at: 2017-09-22 10:30:55

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 50.471 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.258 ms

Loss rate: 0.00%

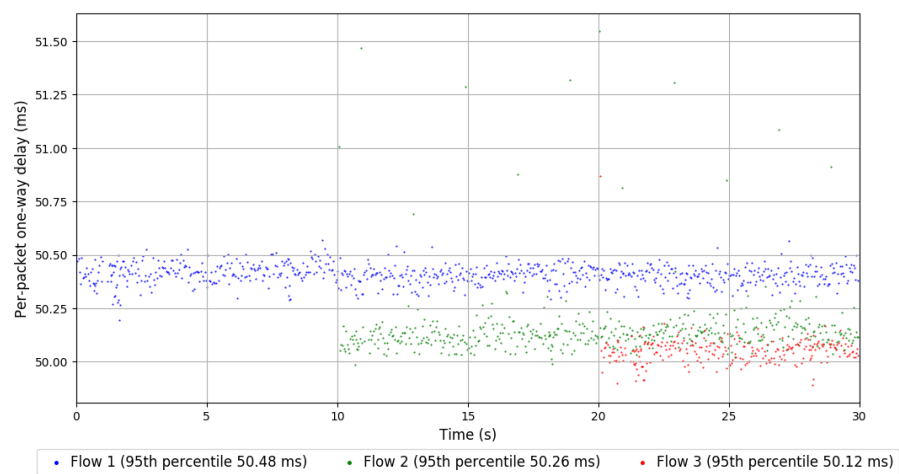
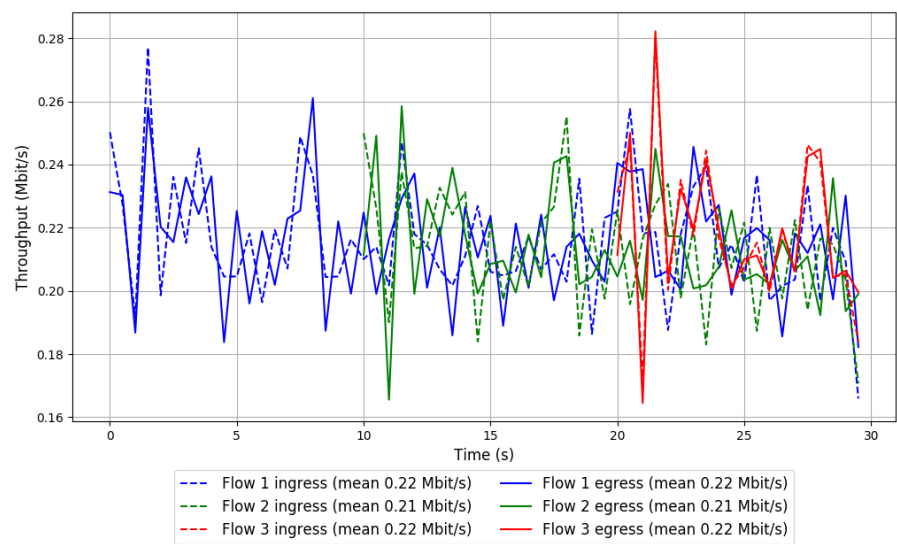
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.123 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2017-09-22 10:42:44

End at: 2017-09-22 10:43:14

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 54.058 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.077 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.409 ms

Loss rate: 0.00%

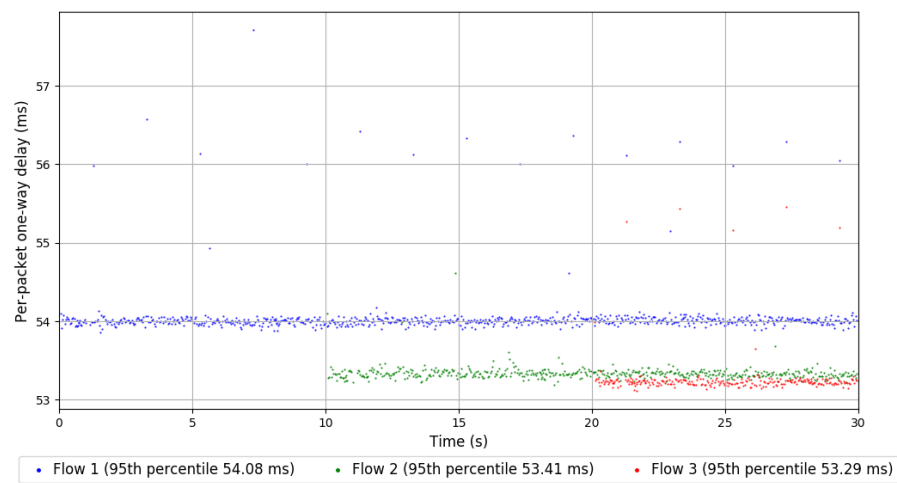
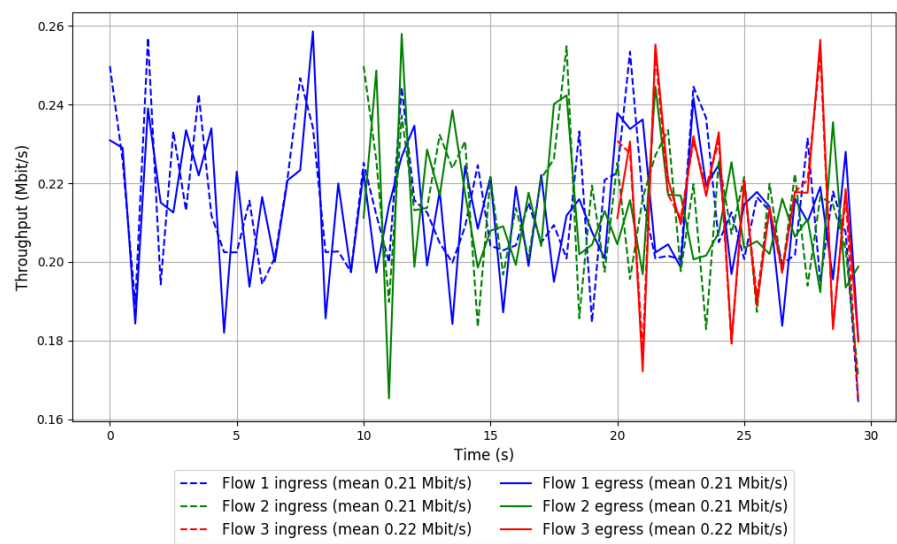
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.290 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-09-22 10:55:11

End at: 2017-09-22 10:55:41

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.337 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.351 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.315 ms

Loss rate: 0.00%

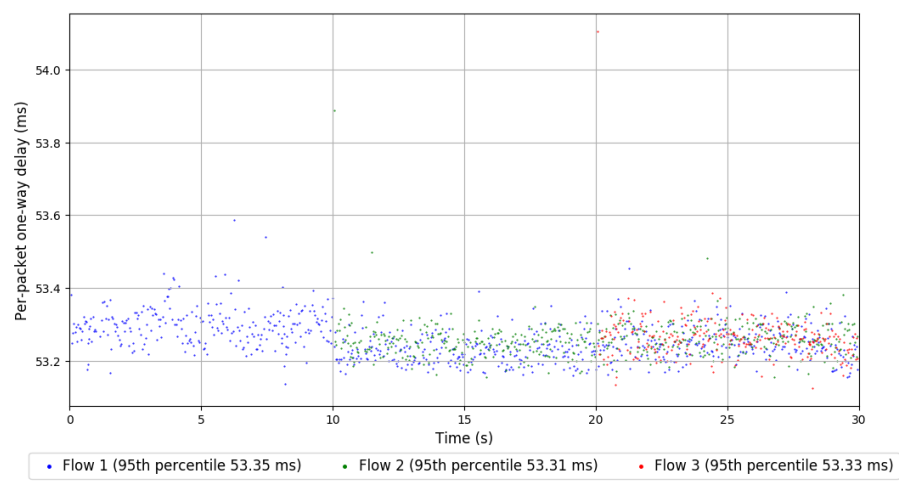
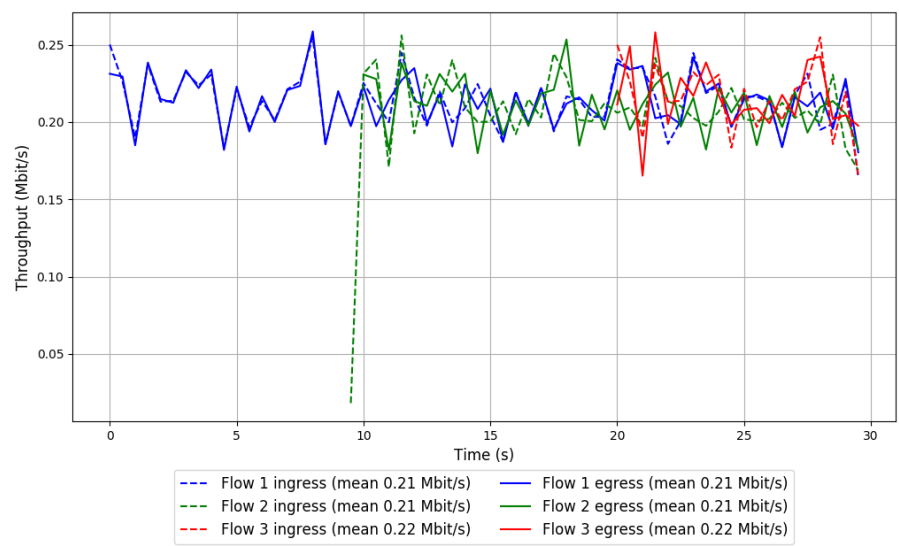
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.331 ms

Loss rate: 0.00%

Run 8: Report of SCReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-09-22 11:07:44

End at: 2017-09-22 11:08:14

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.276 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.198 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.304 ms

Loss rate: 0.00%

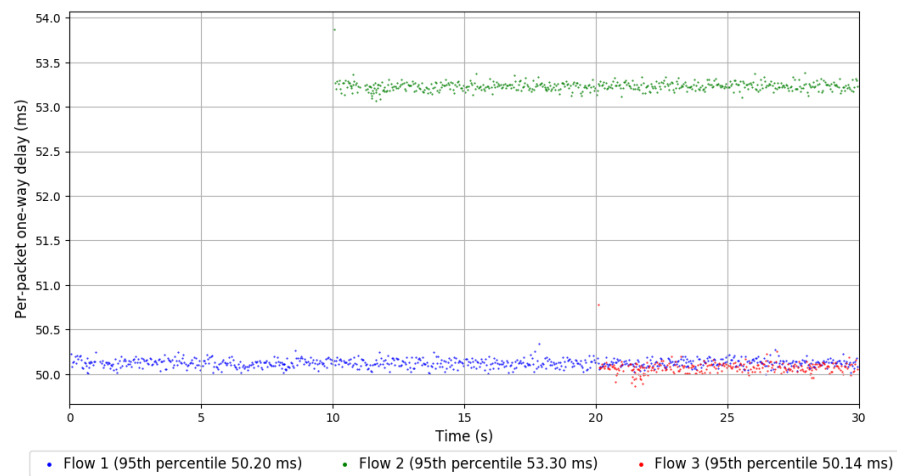
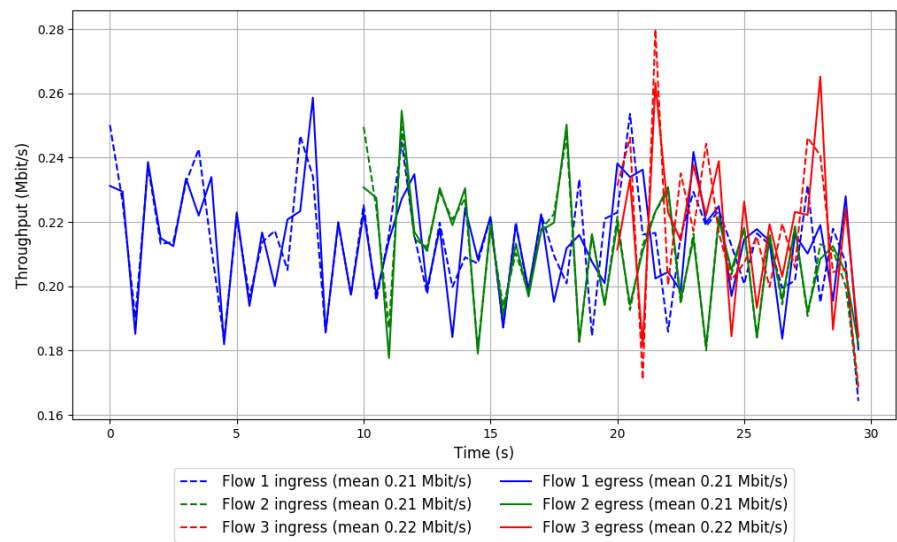
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.144 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-22 11:20:18

End at: 2017-09-22 11:20:48

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.346 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.369 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.212 ms

Loss rate: 0.00%

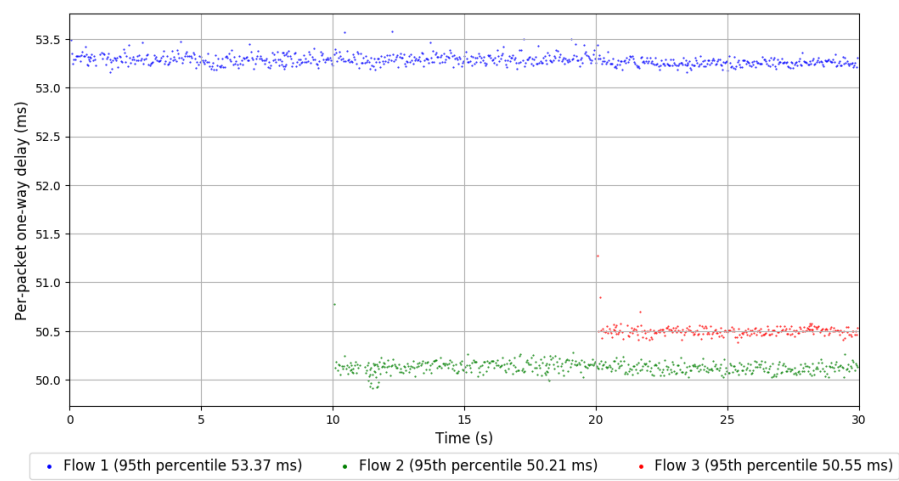
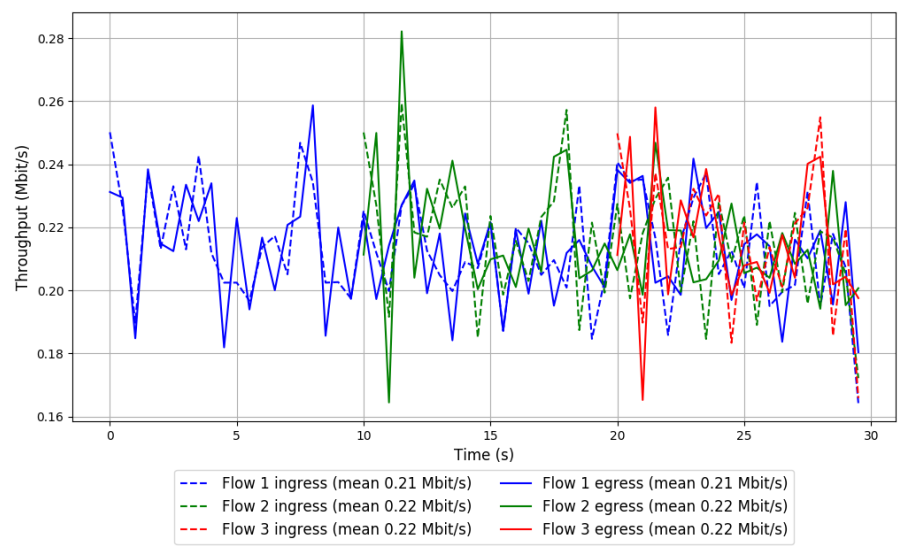
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.554 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

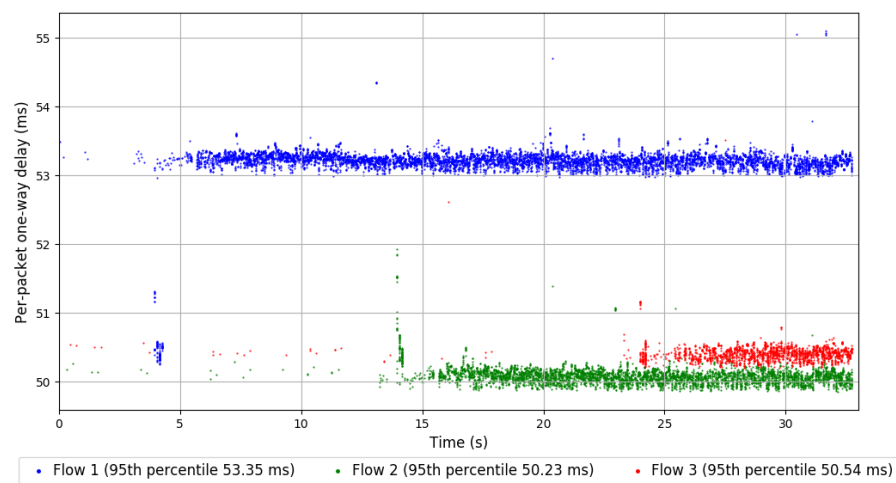
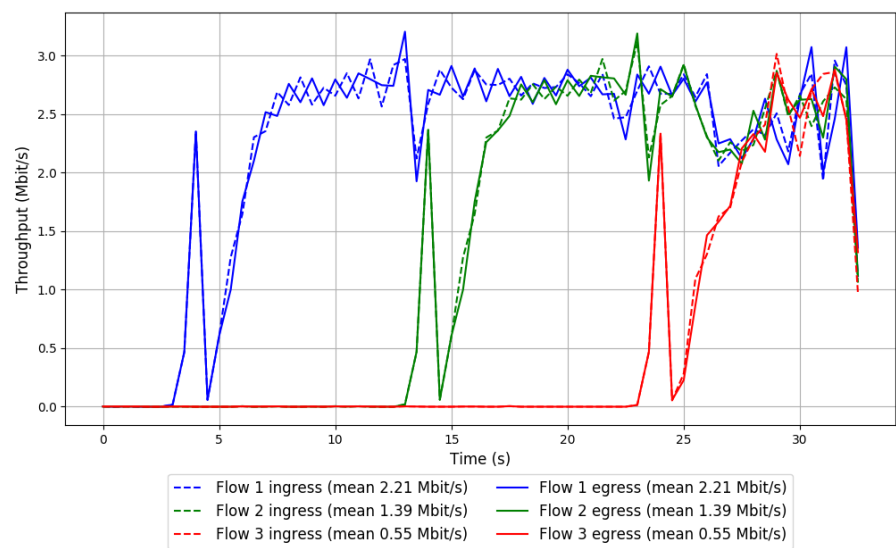


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-22 09:31:50
End at: 2017-09-22 09:32:20

# Below is generated by plot.py at 2017-09-22 13:14:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 53.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 53.349 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 50.231 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 50.537 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-22 09:44:22

End at: 2017-09-22 09:44:52

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.250 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 53.947 ms

Loss rate: 0.00%

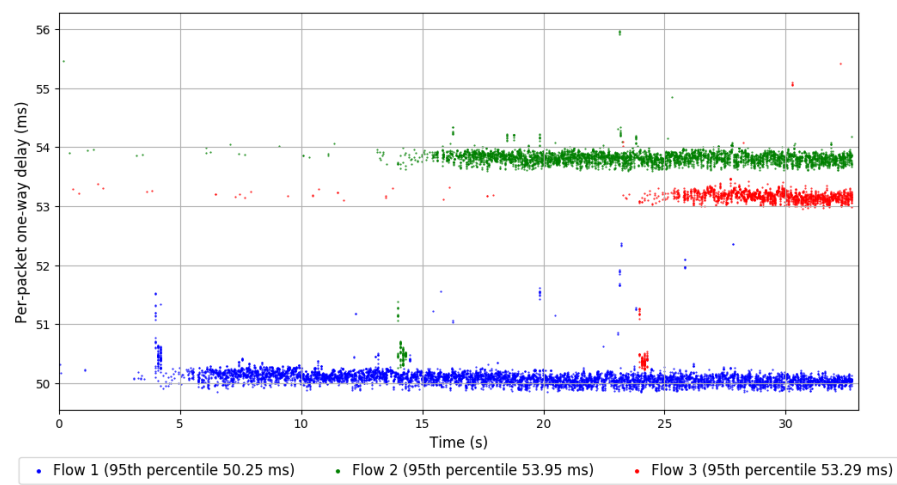
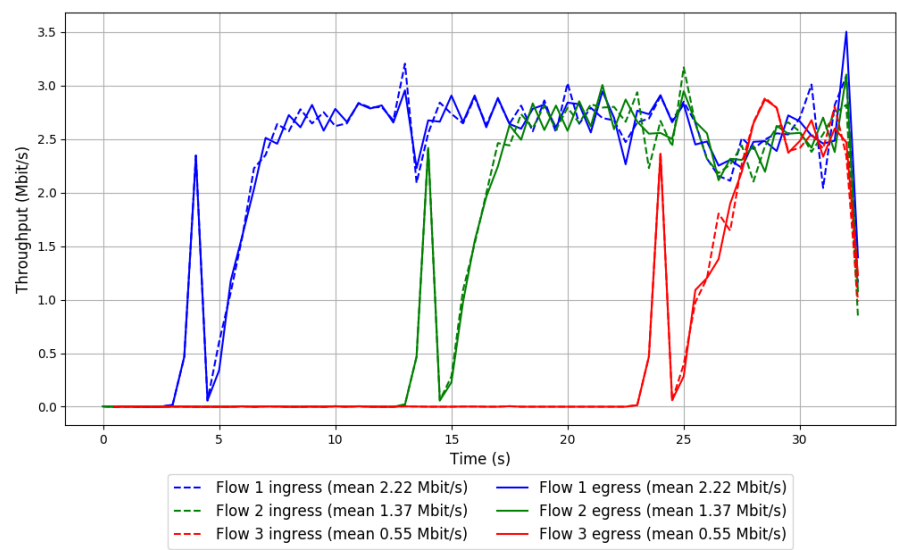
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 53.293 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-09-22 09:57:02

End at: 2017-09-22 09:57:32

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 53.980 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.807 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 53.995 ms

Loss rate: 0.00%

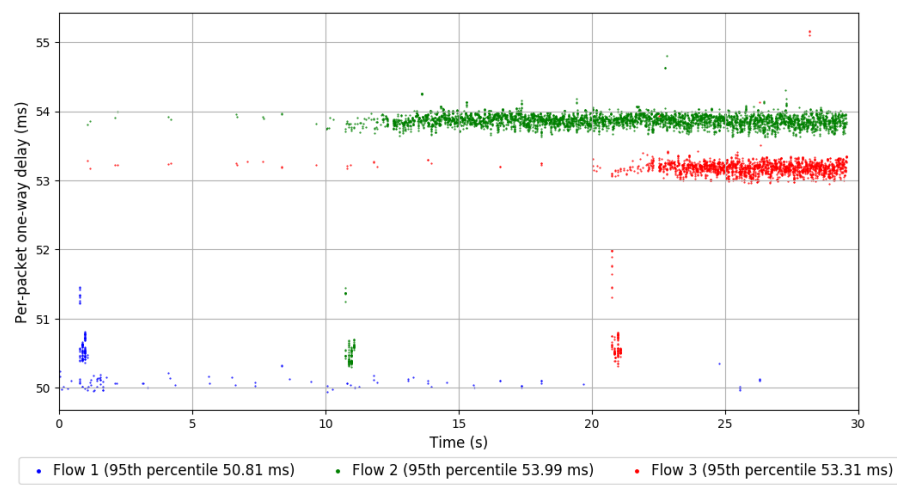
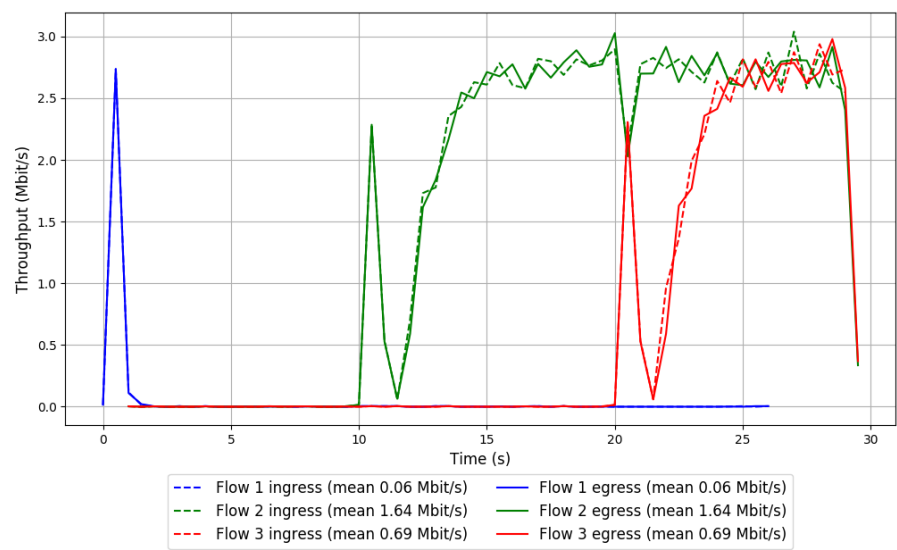
-- Flow 3:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 53.307 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-09-22 10:09:32

End at: 2017-09-22 10:10:02

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 50.486 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 50.498 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 50.280 ms

Loss rate: 0.00%

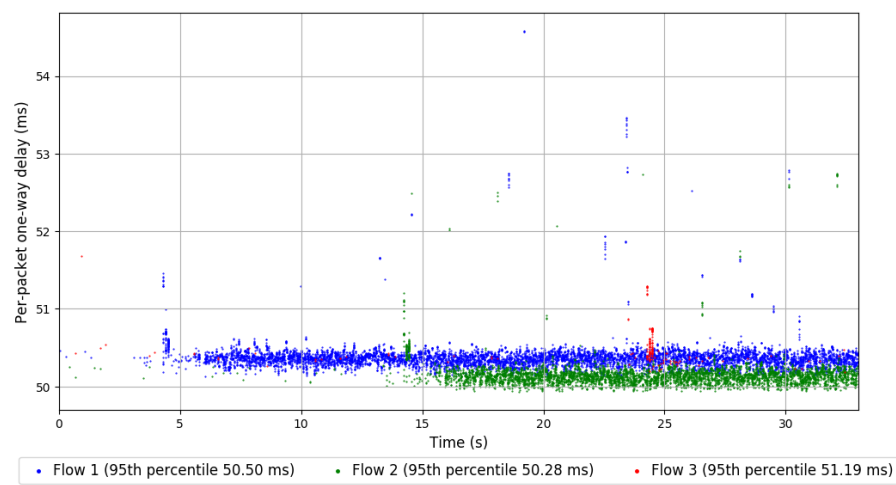
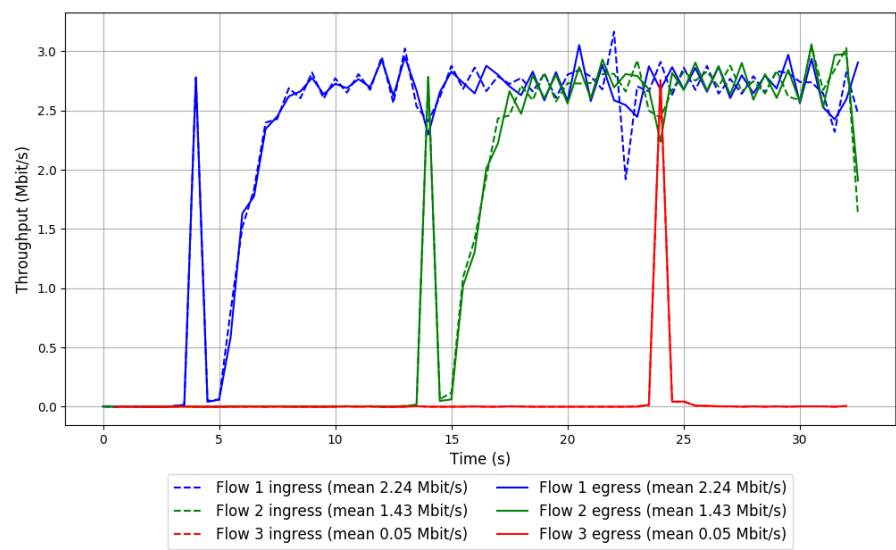
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 51.186 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-09-22 10:22:02

End at: 2017-09-22 10:22:32

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.10 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 53.322 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 53.996 ms

Loss rate: 0.00%

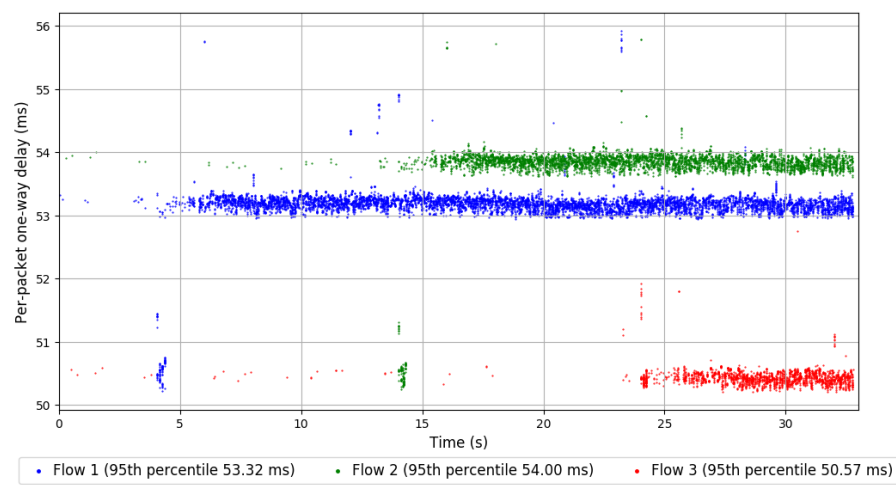
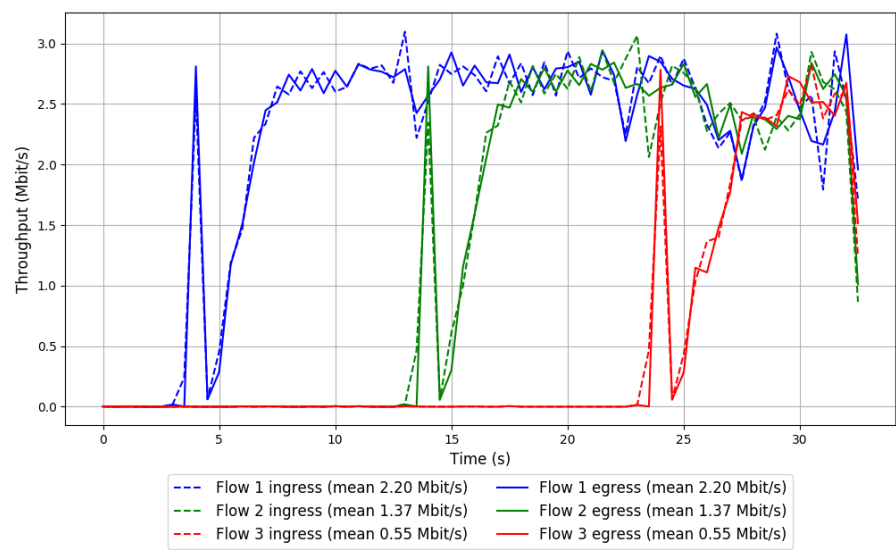
-- Flow 3:

Average throughput: 0.55 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-09-22 10:34:27

End at: 2017-09-22 10:34:57

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 53.241 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.00%

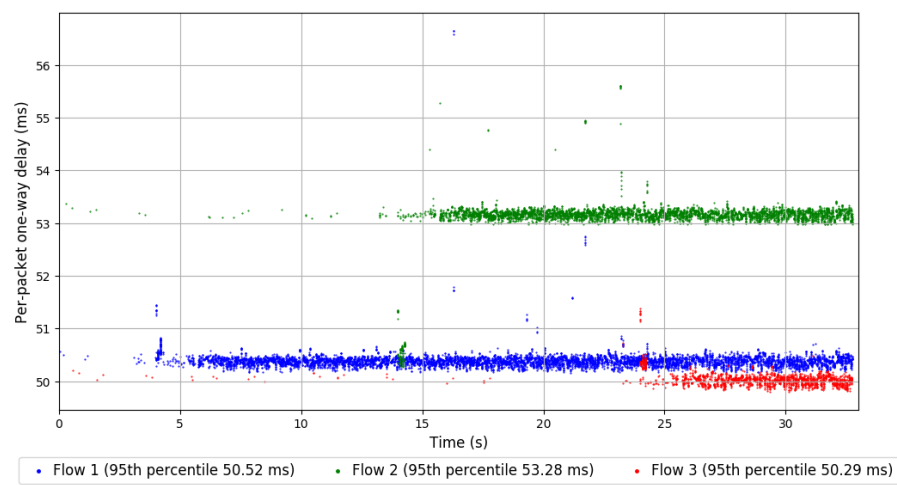
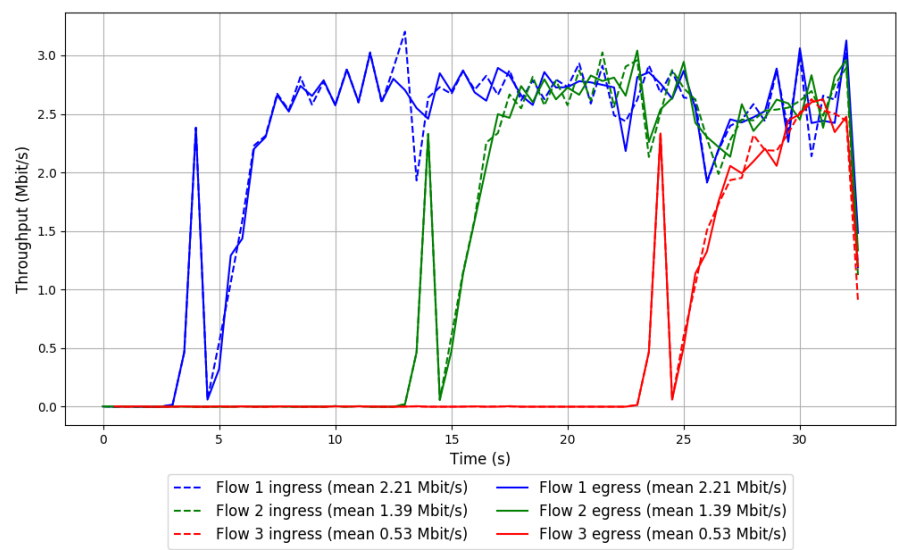
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 50.289 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-09-22 10:46:48

End at: 2017-09-22 10:47:18

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 54.031 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 54.048 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 53.985 ms

Loss rate: 0.00%

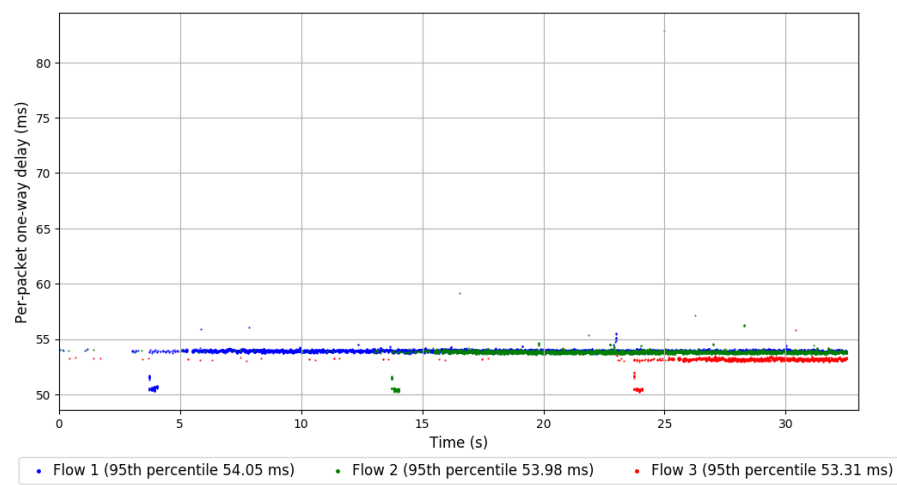
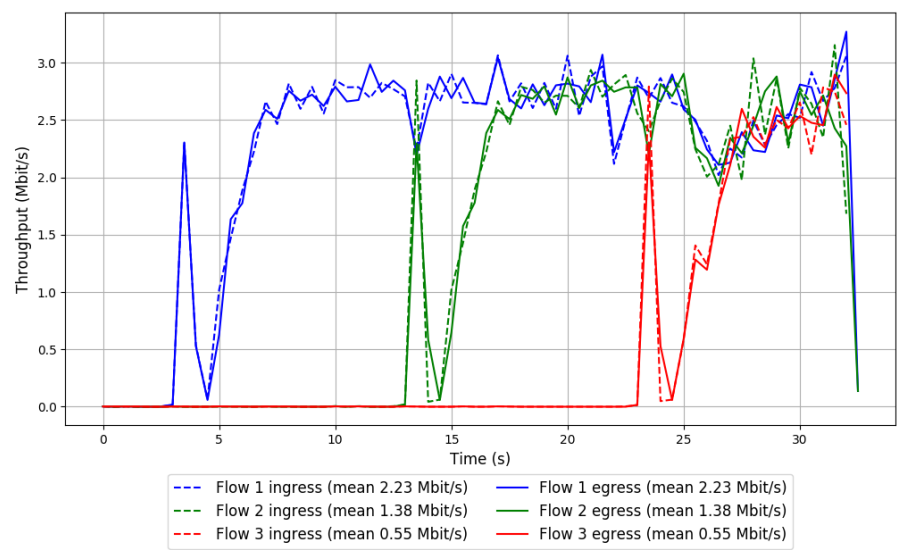
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 53.313 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-09-22 10:59:18

End at: 2017-09-22 10:59:48

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 53.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 50.561 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 50.507 ms

Loss rate: 0.00%

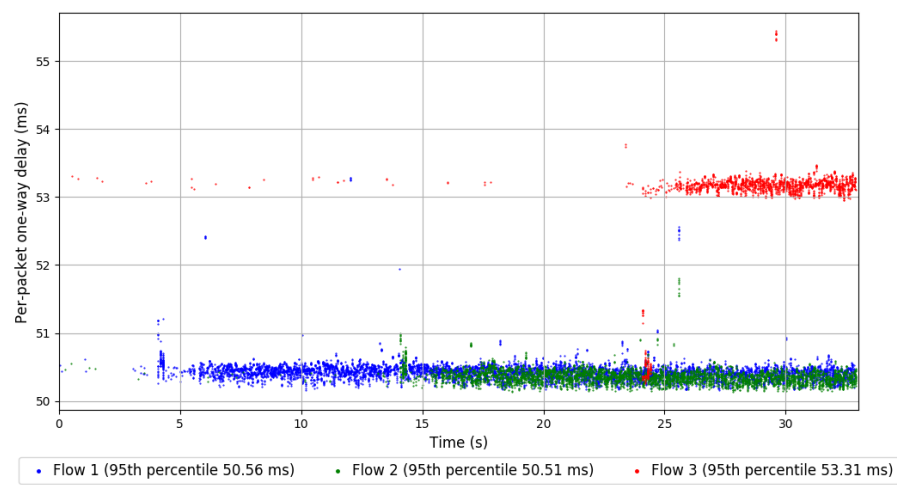
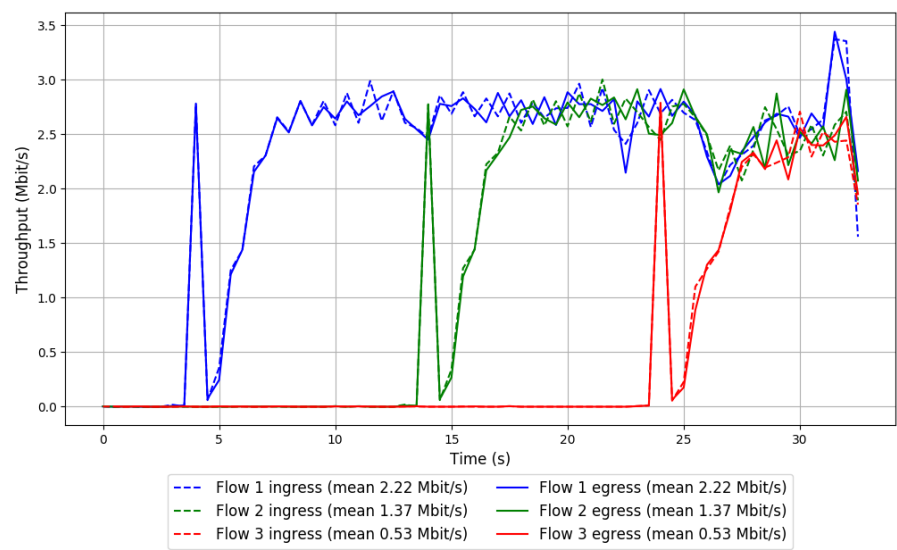
-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 53.307 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-09-22 11:11:46

End at: 2017-09-22 11:12:16

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.11 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 53.333 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 53.985 ms

Loss rate: 0.02%

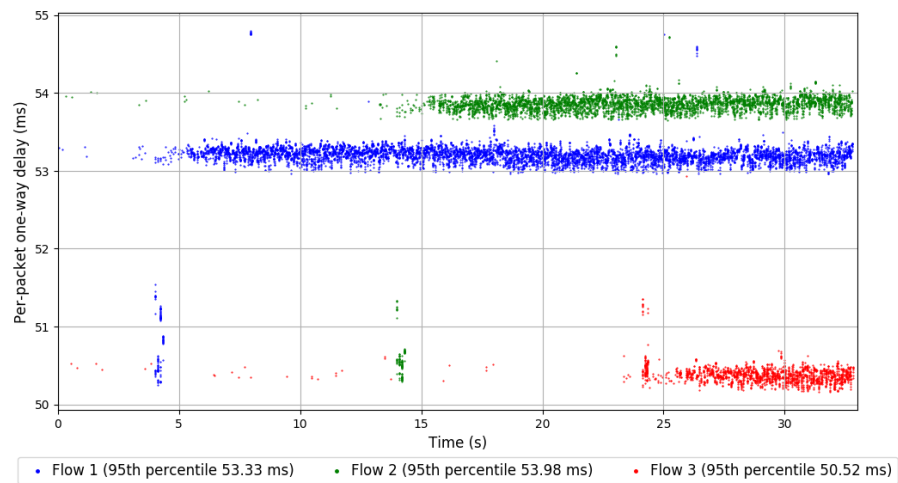
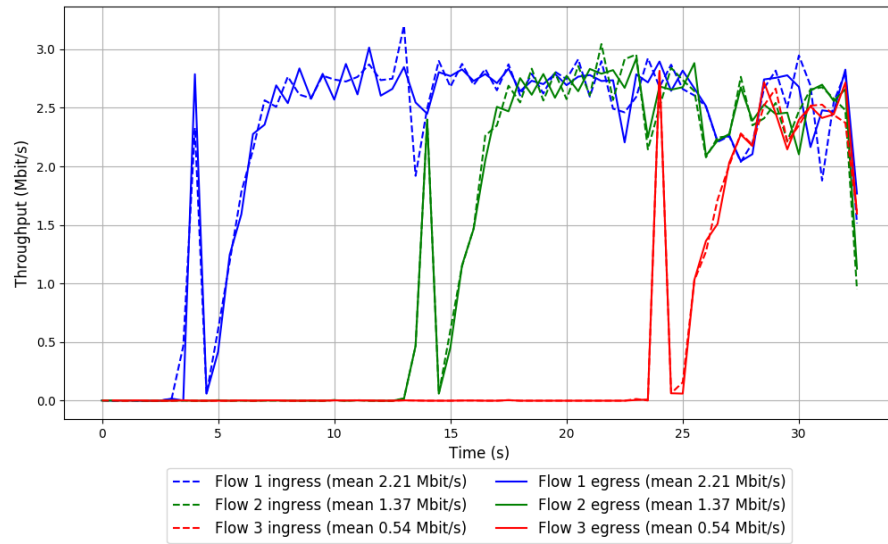
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 50.517 ms

Loss rate: 0.06%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-09-22 11:24:24

End at: 2017-09-22 11:24:54

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 50.502 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.38 Mbit/s

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

Loss rate: 0.00%

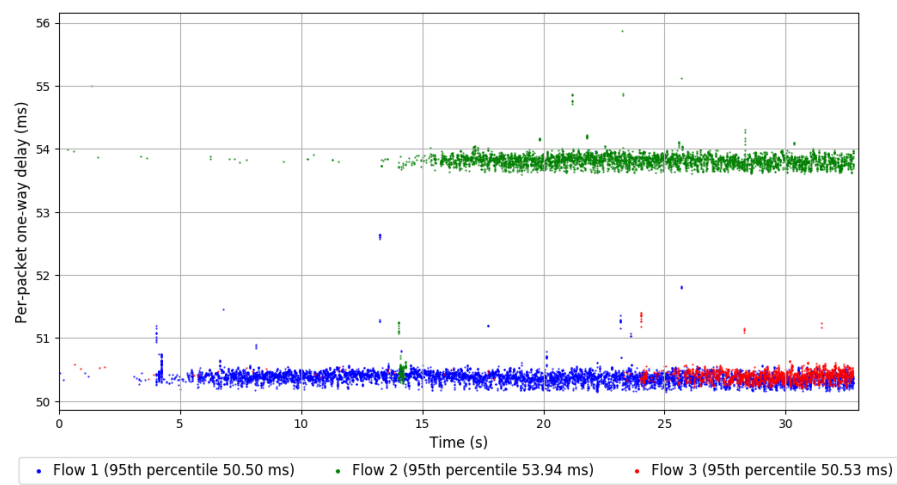
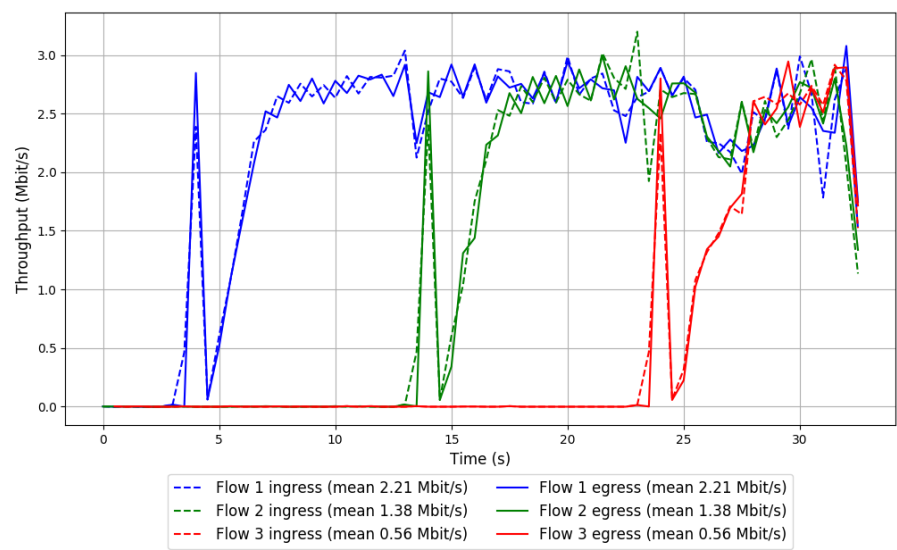
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-22 09:29:42

End at: 2017-09-22 09:30:12

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 51.145 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.130 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 51.170 ms

Loss rate: 0.05%

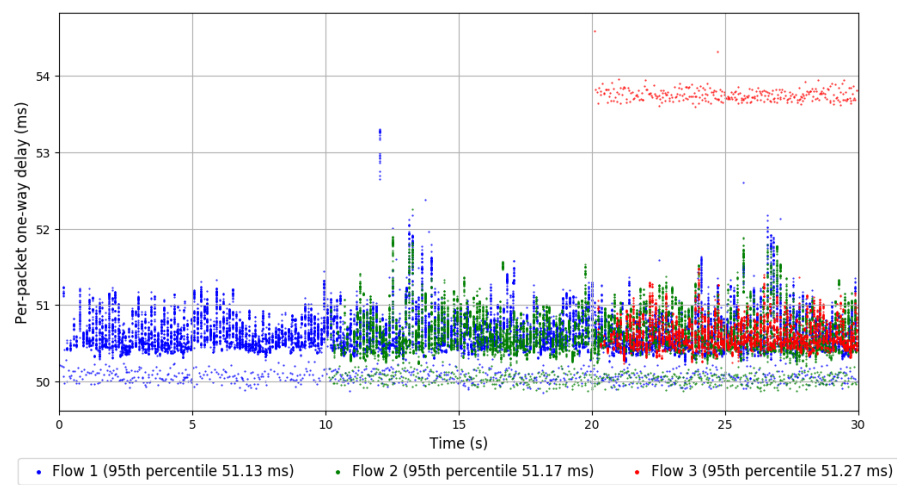
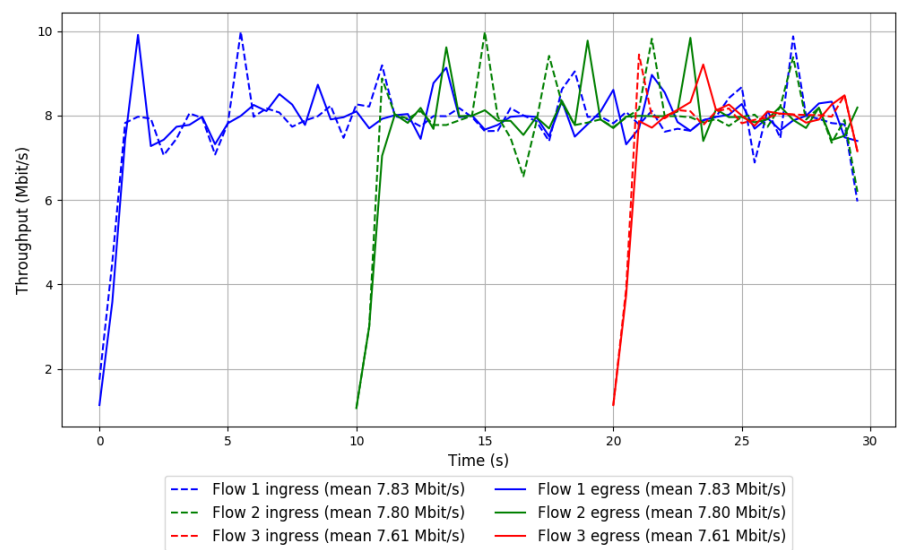
-- Flow 3:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 51.274 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-22 09:42:05

End at: 2017-09-22 09:42:35

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.43 Mbit/s

95th percentile per-packet one-way delay: 51.220 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 52.730 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 51.070 ms

Loss rate: 0.08%

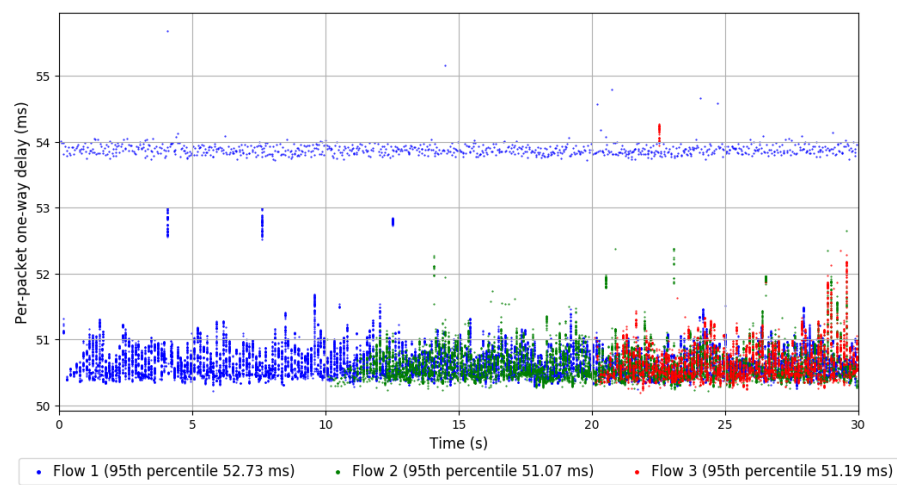
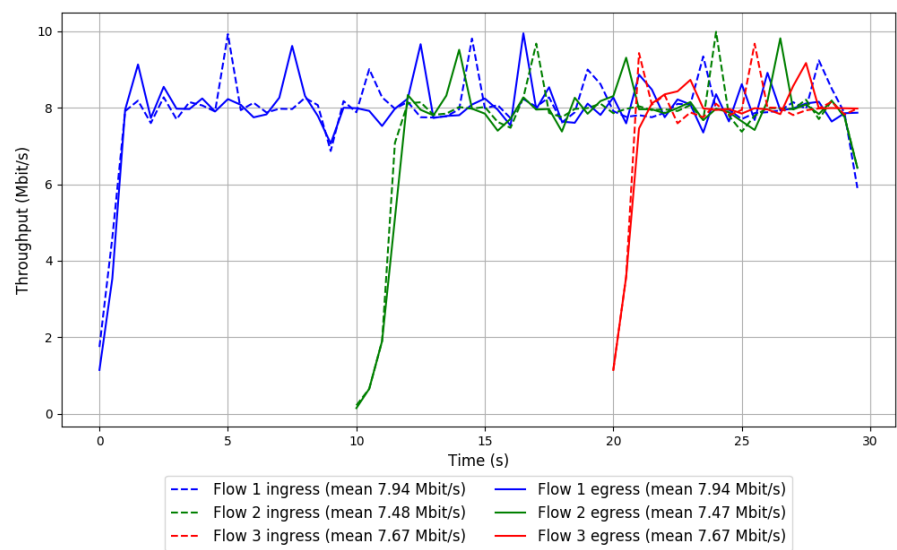
-- Flow 3:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 51.189 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-09-22 09:54:48

End at: 2017-09-22 09:55:18

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.47 Mbit/s

95th percentile per-packet one-way delay: 51.391 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.815 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 7.61 Mbit/s

95th percentile per-packet one-way delay: 51.151 ms

Loss rate: 0.09%

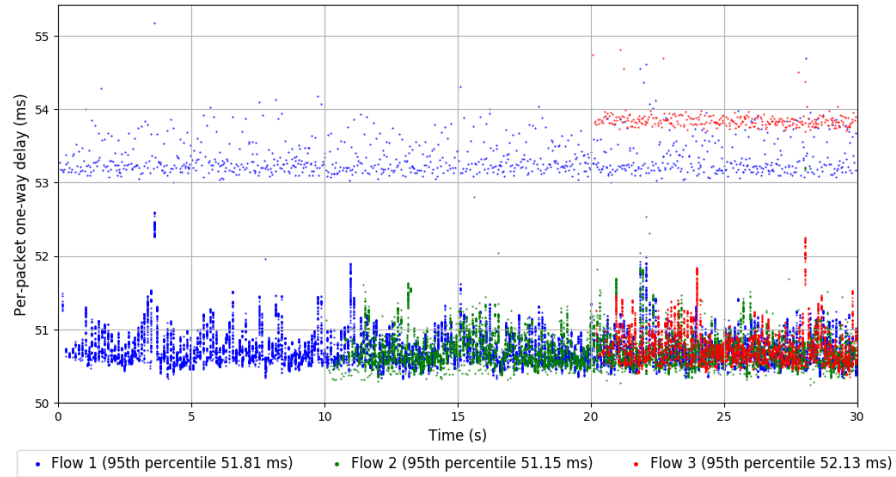
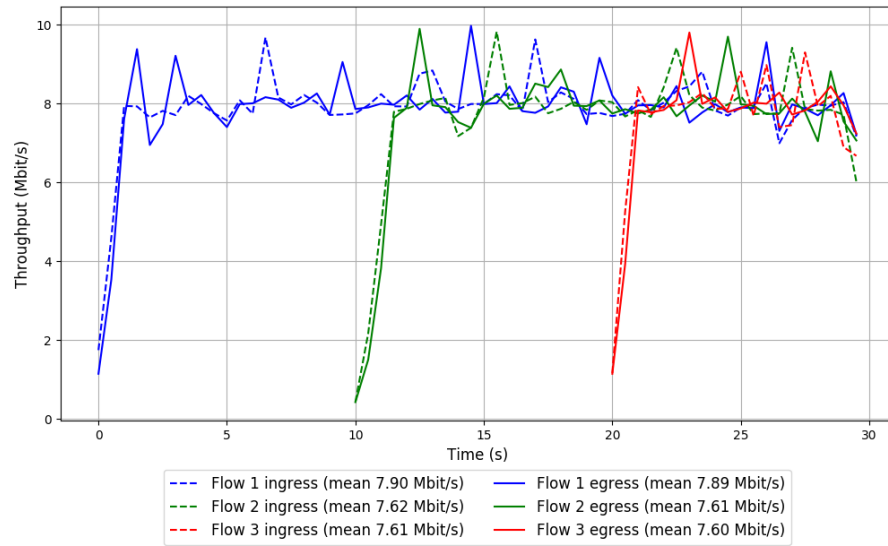
-- Flow 3:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 52.133 ms

Loss rate: 0.06%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-09-22 10:07:17

End at: 2017-09-22 10:07:47

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.68 Mbit/s

95th percentile per-packet one-way delay: 51.192 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.197 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 7.94 Mbit/s

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

Loss rate: 0.00%

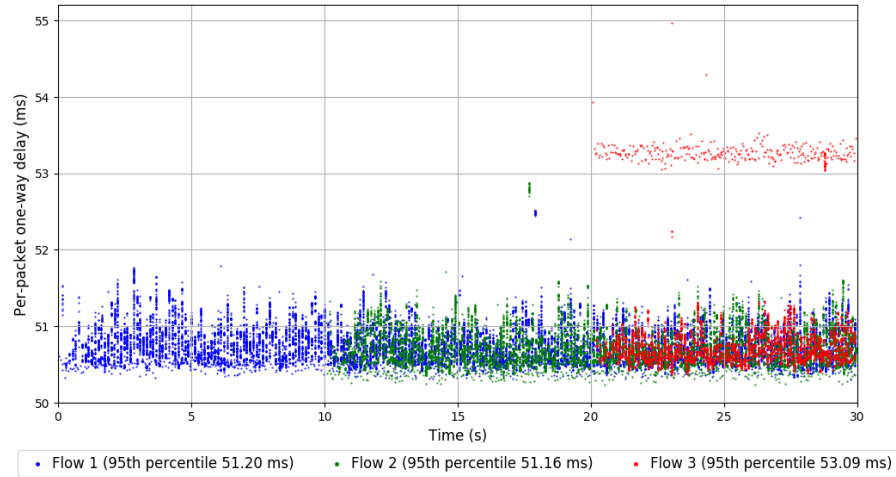
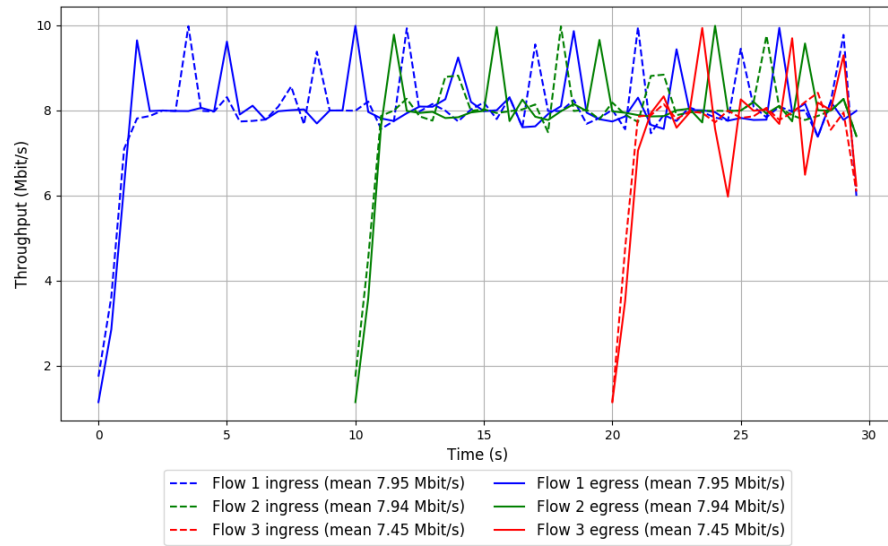
-- Flow 3:

Average throughput: 7.45 Mbit/s

95th percentile per-packet one-way delay: 53.091 ms

Loss rate: 0.03%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-09-22 10:19:49

End at: 2017-09-22 10:20:19

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 51.111 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.067 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 51.451 ms

Loss rate: 0.08%

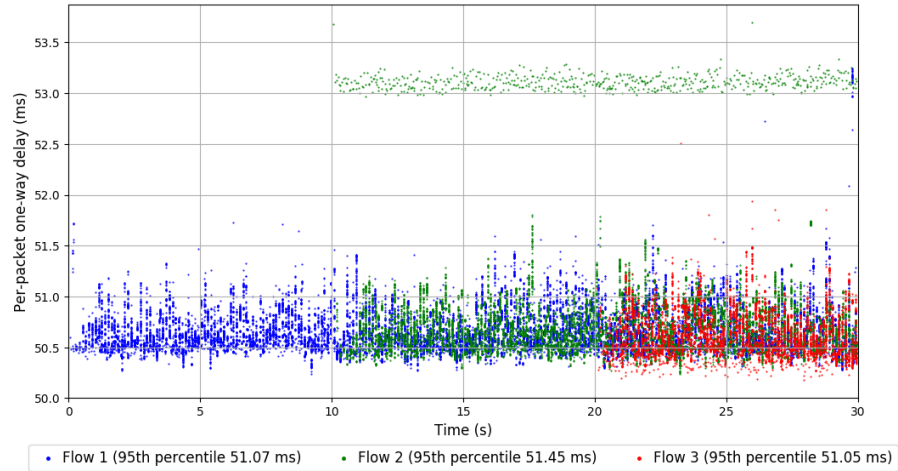
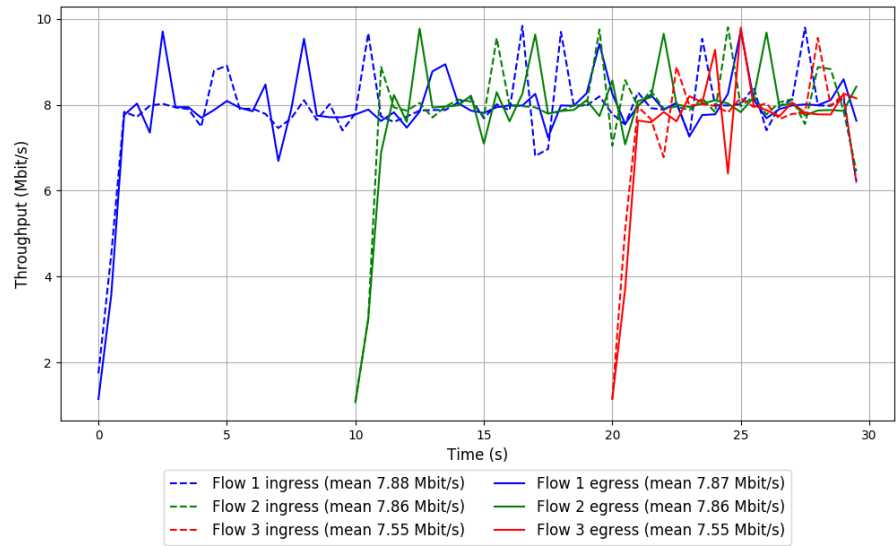
-- Flow 3:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 51.053 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-22 10:32:13

End at: 2017-09-22 10:32:43

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.38 Mbit/s

95th percentile per-packet one-way delay: 51.162 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.088 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 53.677 ms

Loss rate: 0.01%

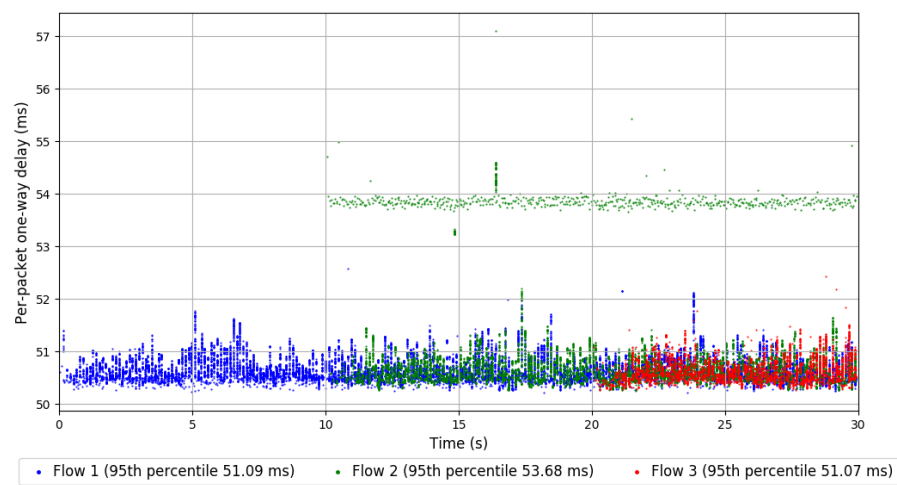
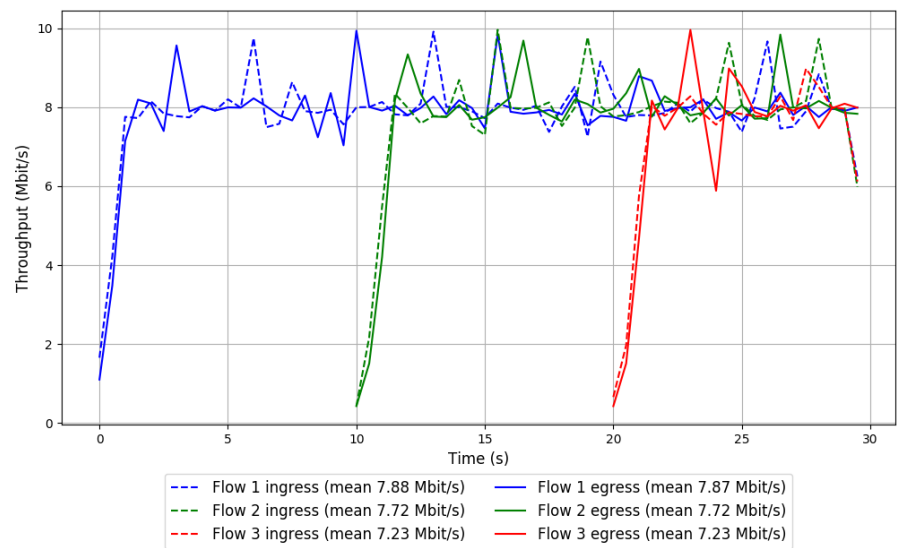
-- Flow 3:

Average throughput: 7.23 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-22 10:44:31

End at: 2017-09-22 10:45:01

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.52 Mbit/s

95th percentile per-packet one-way delay: 51.238 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.183 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.489 ms

Loss rate: 0.02%

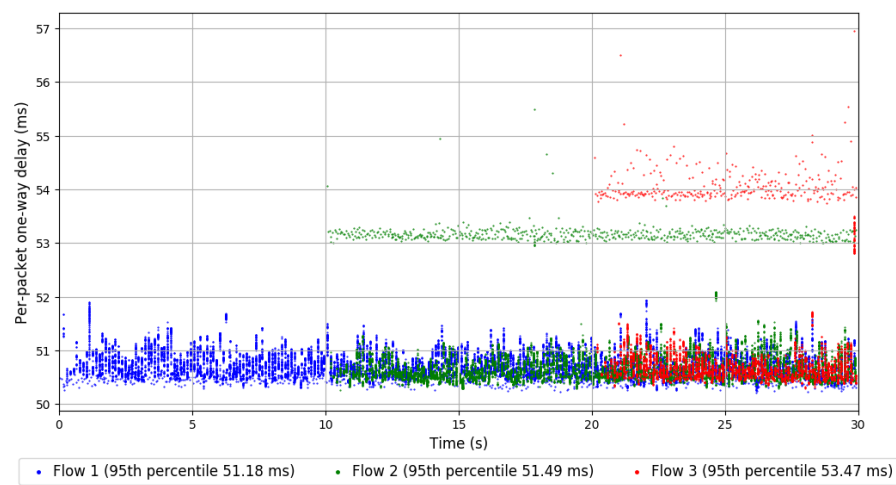
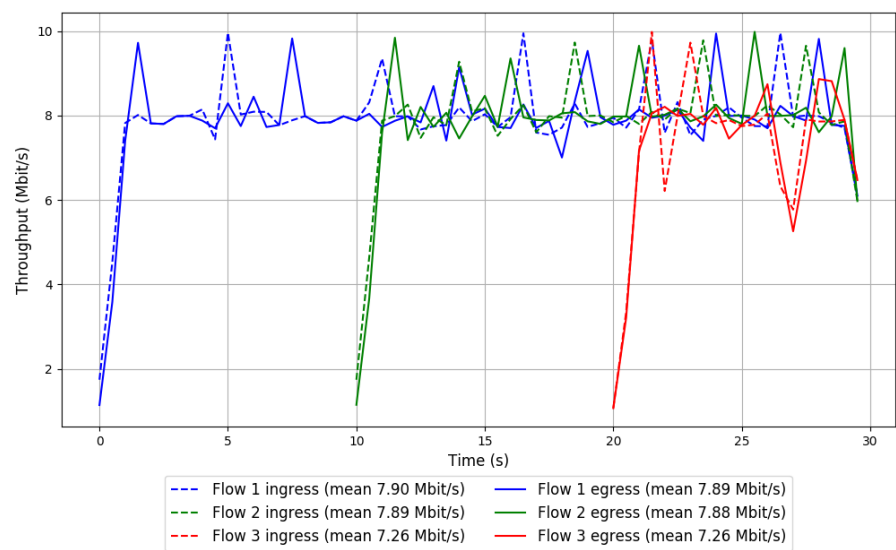
-- Flow 3:

Average throughput: 7.26 Mbit/s

95th percentile per-packet one-way delay: 53.467 ms

Loss rate: 0.02%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-09-22 10:56:59

End at: 2017-09-22 10:57:29

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 51.202 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.143 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 7.69 Mbit/s

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

Loss rate: 0.08%

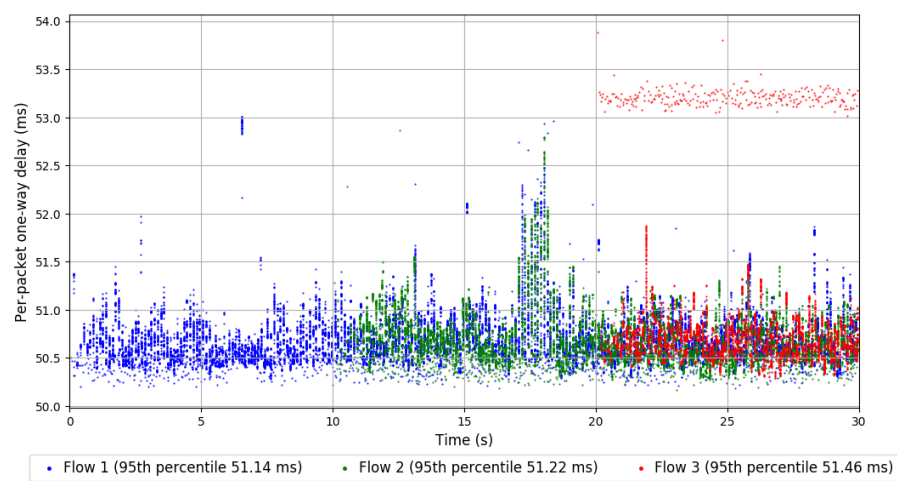
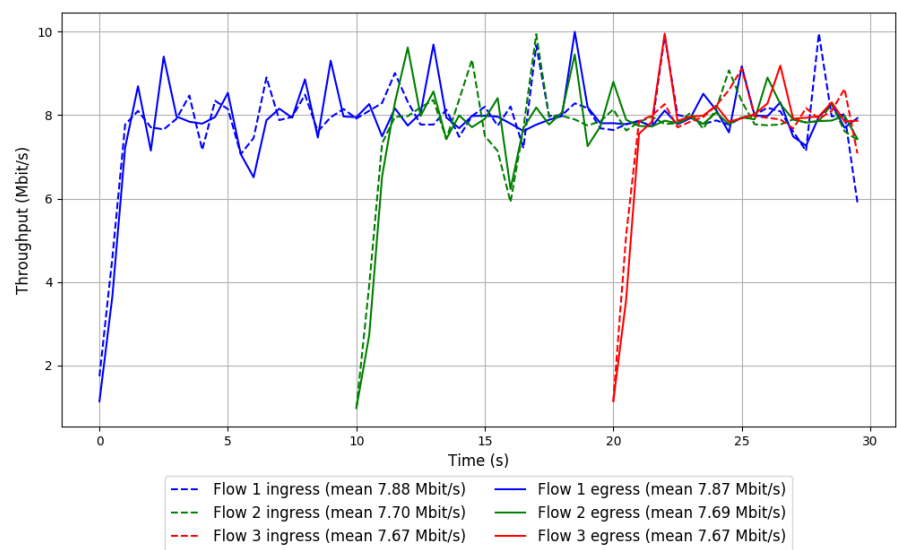
-- Flow 3:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 51.458 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-09-22 11:09:32

End at: 2017-09-22 11:10:02

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.58 Mbit/s

95th percentile per-packet one-way delay: 51.228 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 51.403 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.148 ms

Loss rate: 0.00%

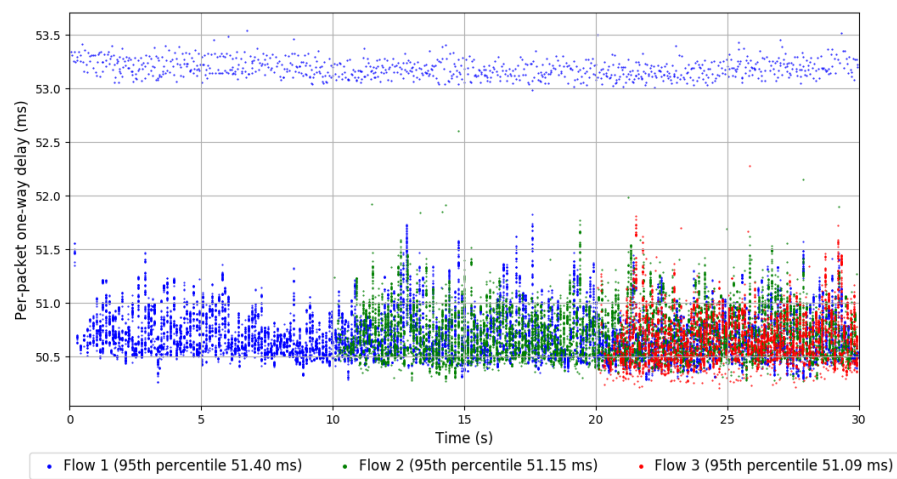
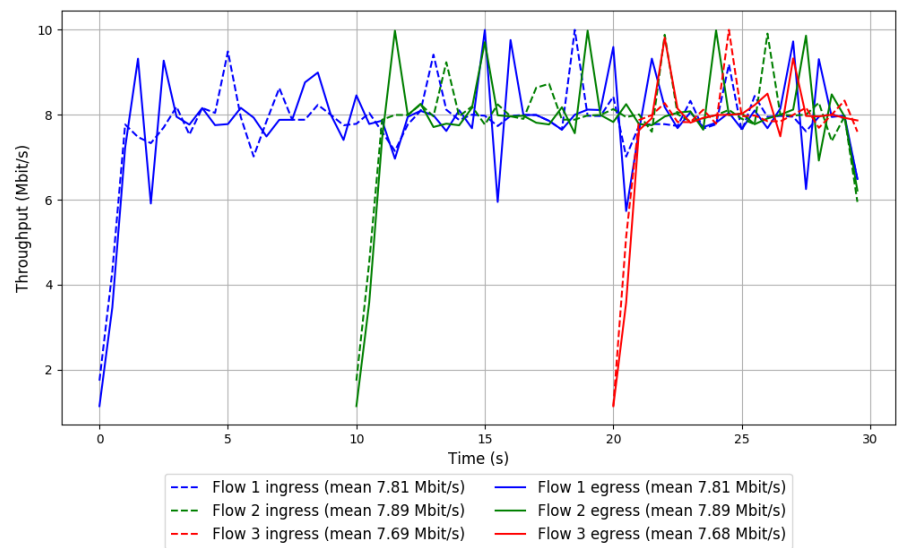
-- Flow 3:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 51.090 ms

Loss rate: 0.09%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-09-22 11:22:05

End at: 2017-09-22 11:22:35

Below is generated by plot.py at 2017-09-22 13:14:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.27 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 52.582 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.142 ms

Loss rate: 0.00%

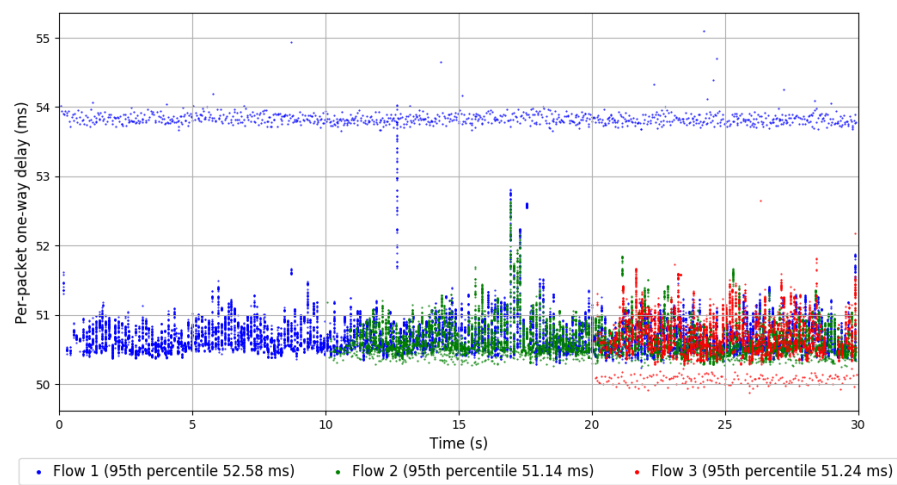
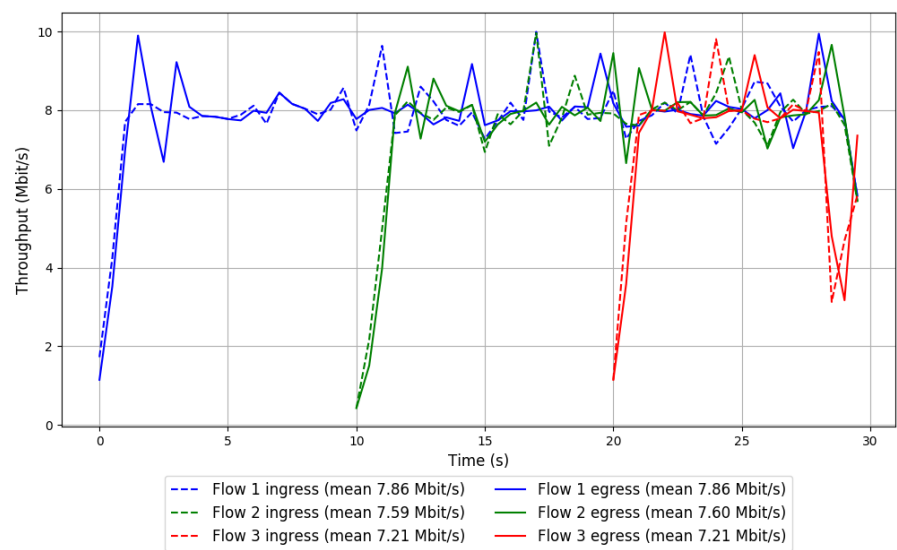
-- Flow 3:

Average throughput: 7.21 Mbit/s

95th percentile per-packet one-way delay: 51.239 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

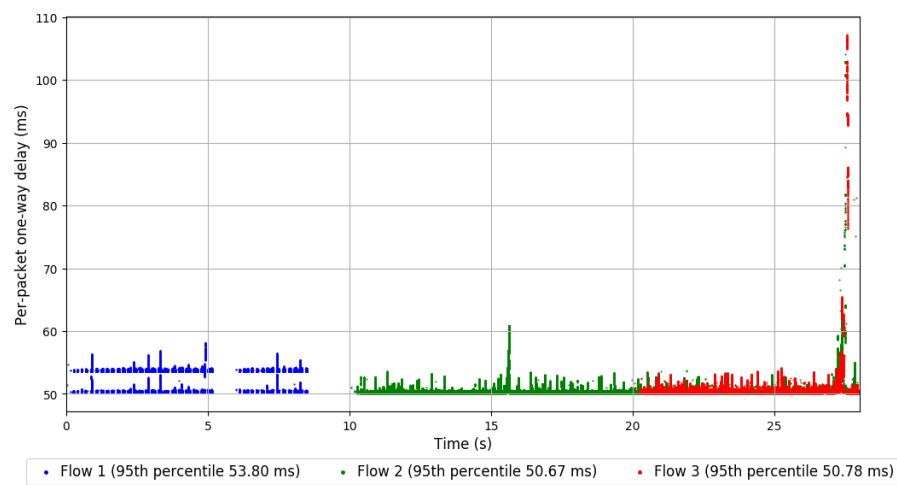
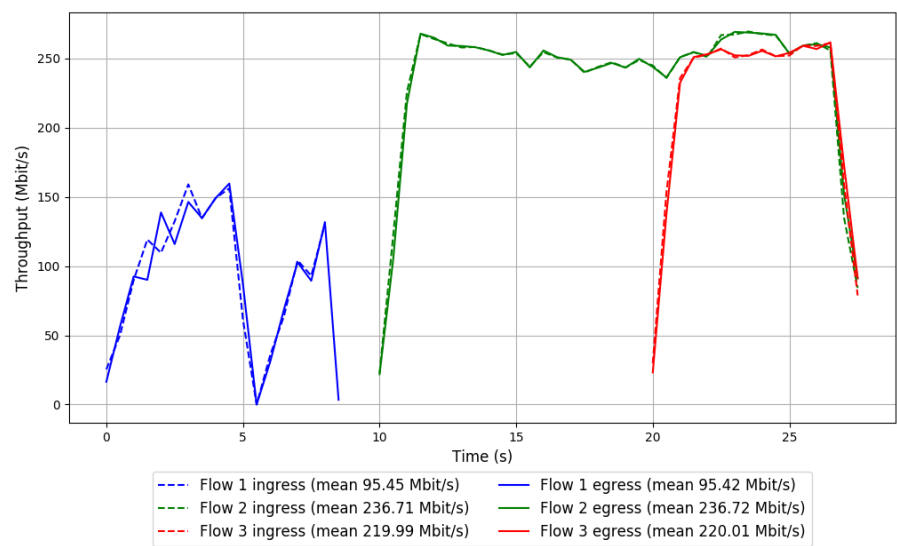


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-22 09:26:52
End at: 2017-09-22 09:27:22

# Below is generated by plot.py at 2017-09-22 13:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.67 Mbit/s
95th percentile per-packet one-way delay: 53.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.42 Mbit/s
95th percentile per-packet one-way delay: 53.803 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 236.72 Mbit/s
95th percentile per-packet one-way delay: 50.666 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 220.01 Mbit/s
95th percentile per-packet one-way delay: 50.784 ms
Loss rate: 0.00%
```


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

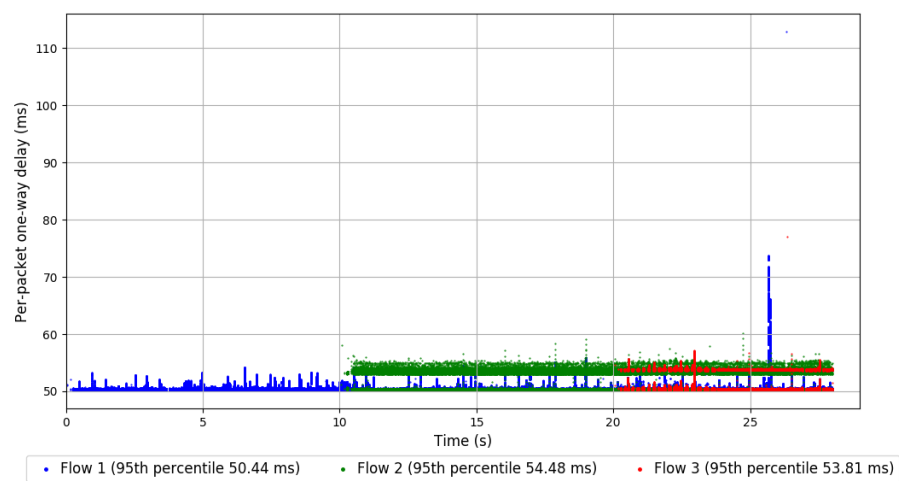
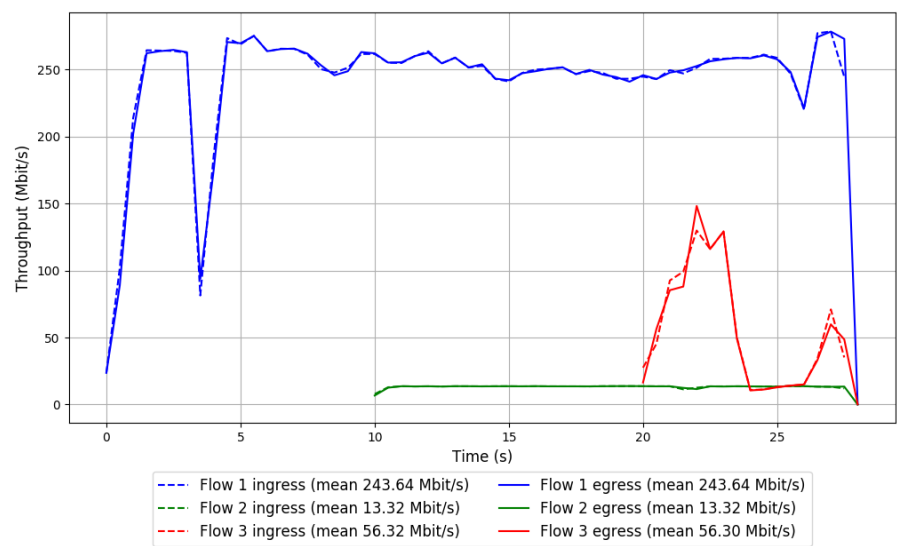


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-22 09:39:13
End at: 2017-09-22 09:39:43

# Below is generated by plot.py at 2017-09-22 13:15:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.14 Mbit/s
95th percentile per-packet one-way delay: 52.768 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.64 Mbit/s
95th percentile per-packet one-way delay: 50.438 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 54.476 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.30 Mbit/s
95th percentile per-packet one-way delay: 53.807 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-09-22 09:51:49

End at: 2017-09-22 09:52:19

Below is generated by plot.py at 2017-09-22 13:18:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 328.85 Mbit/s

95th percentile per-packet one-way delay: 51.743 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 241.16 Mbit/s

95th percentile per-packet one-way delay: 50.594 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.39 Mbit/s

95th percentile per-packet one-way delay: 53.169 ms

Loss rate: 0.00%

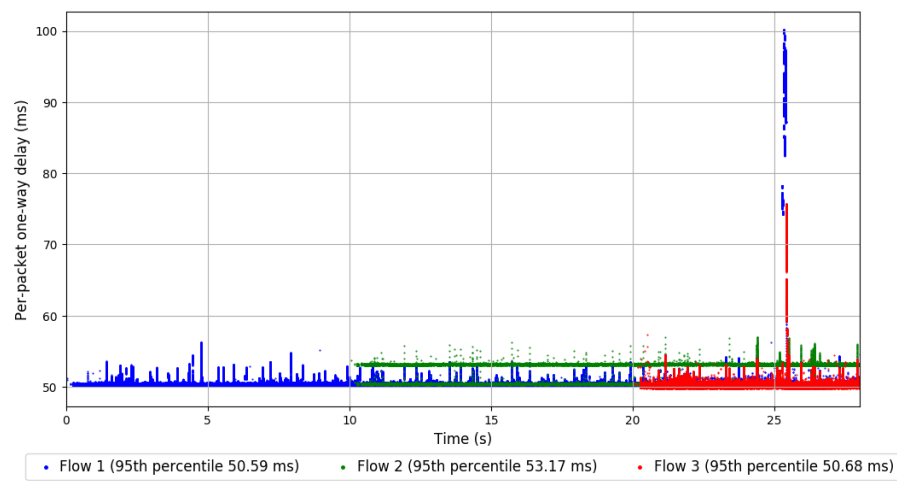
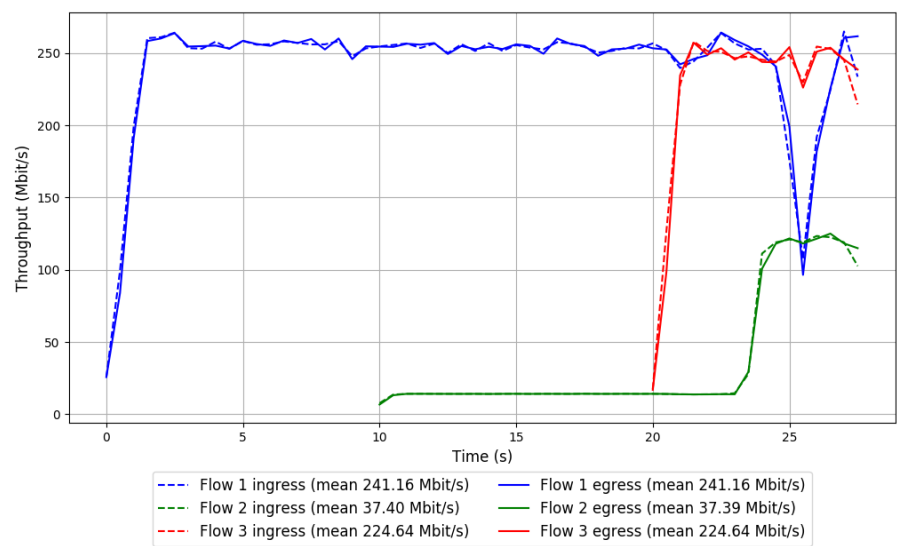
-- Flow 3:

Average throughput: 224.64 Mbit/s

95th percentile per-packet one-way delay: 50.676 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-22 10:04:24

End at: 2017-09-22 10:04:54

Below is generated by plot.py at 2017-09-22 13:18:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.60 Mbit/s

95th percentile per-packet one-way delay: 51.678 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 245.66 Mbit/s

95th percentile per-packet one-way delay: 50.479 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.28 Mbit/s

95th percentile per-packet one-way delay: 55.159 ms

Loss rate: 0.00%

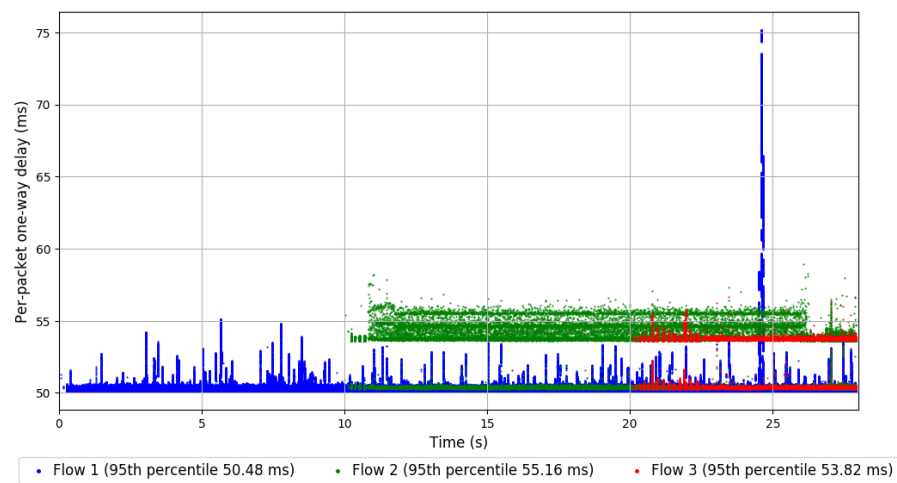
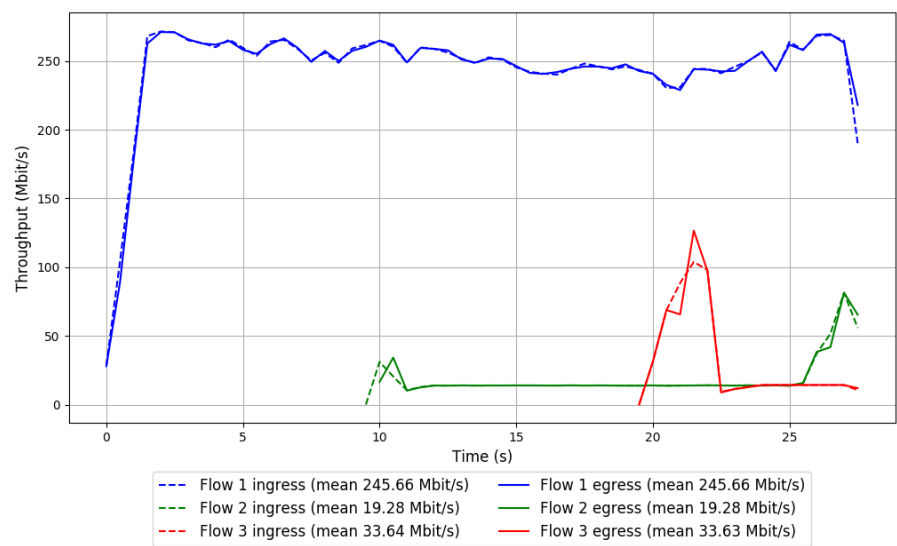
-- Flow 3:

Average throughput: 33.63 Mbit/s

95th percentile per-packet one-way delay: 53.819 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-22 10:16:58

End at: 2017-09-22 10:17:28

Below is generated by plot.py at 2017-09-22 13:18:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 245.75 Mbit/s

95th percentile per-packet one-way delay: 53.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 122.10 Mbit/s

95th percentile per-packet one-way delay: 53.759 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 235.05 Mbit/s

95th percentile per-packet one-way delay: 50.536 ms

Loss rate: 0.00%

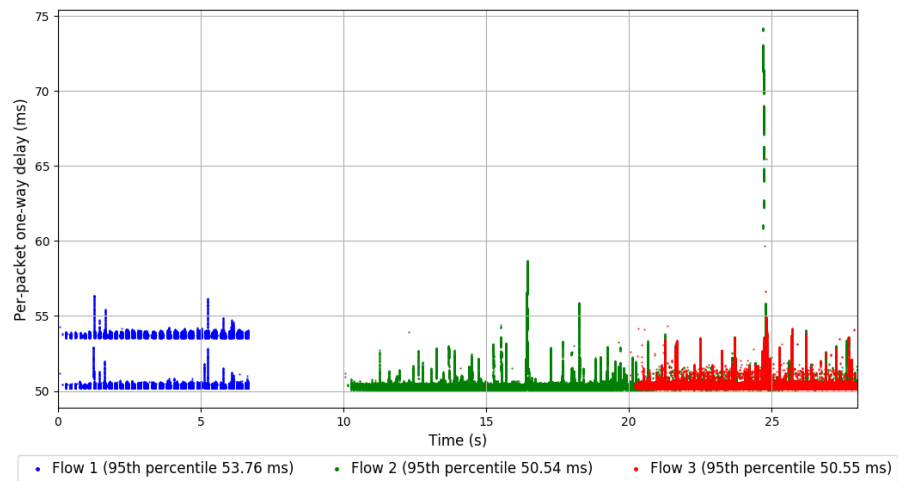
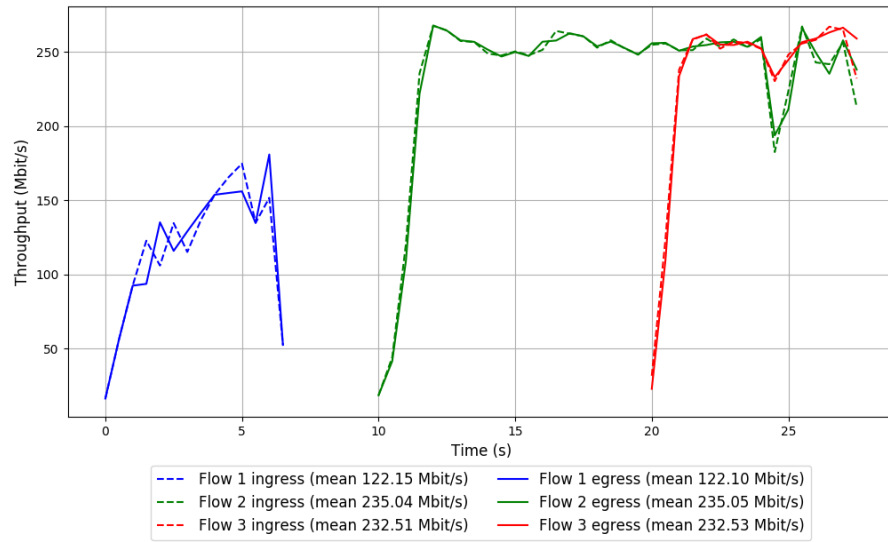
-- Flow 3:

Average throughput: 232.53 Mbit/s

95th percentile per-packet one-way delay: 50.551 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-09-22 10:29:37

End at: 2017-09-22 10:30:07

Below is generated by plot.py at 2017-09-22 13:18:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.38 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 14.11 Mbit/s

95th percentile per-packet one-way delay: 54.526 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.89 Mbit/s

95th percentile per-packet one-way delay: 54.237 ms

Loss rate: 0.00%

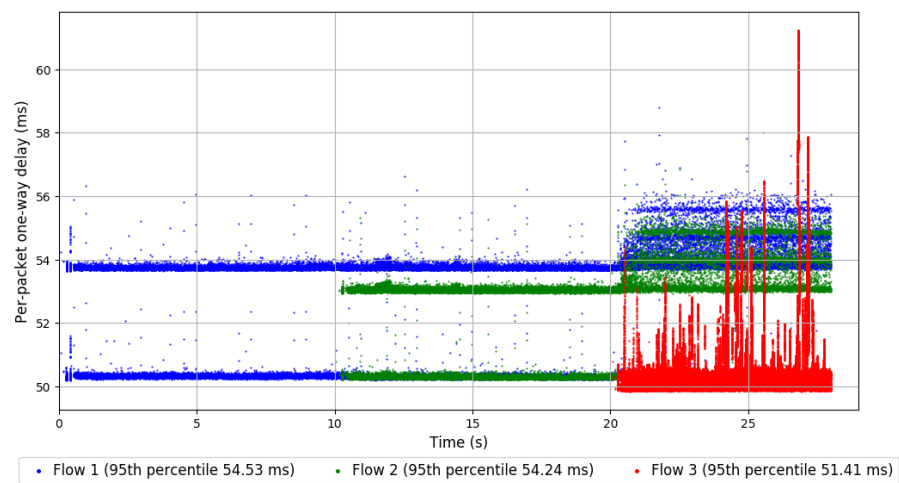
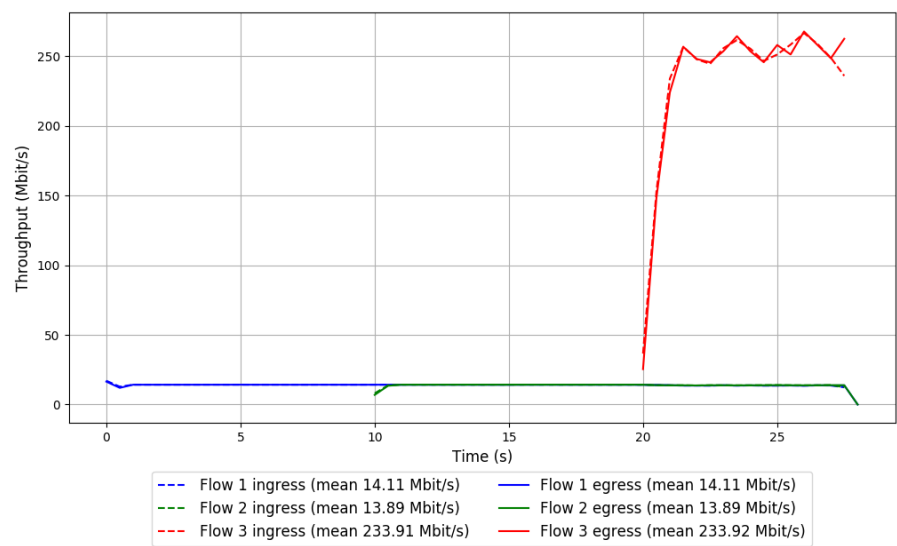
-- Flow 3:

Average throughput: 233.92 Mbit/s

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

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-09-22 10:41:55

End at: 2017-09-22 10:42:25

Below is generated by plot.py at 2017-09-22 13:18:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.94 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 123.98 Mbit/s

95th percentile per-packet one-way delay: 53.842 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.00 Mbit/s

95th percentile per-packet one-way delay: 53.173 ms

Loss rate: 0.00%

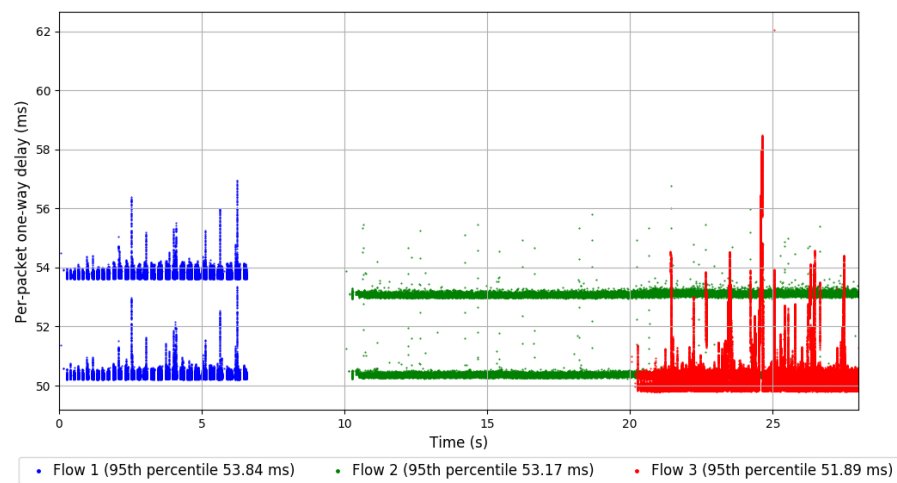
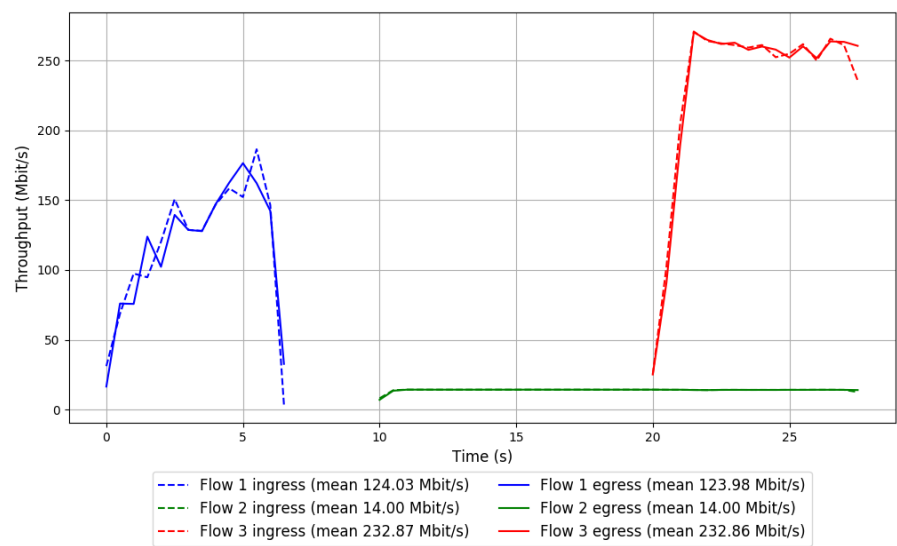
-- Flow 3:

Average throughput: 232.86 Mbit/s

95th percentile per-packet one-way delay: 51.888 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-22 10:54:14

End at: 2017-09-22 10:54:44

Below is generated by plot.py at 2017-09-22 13:19:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 173.40 Mbit/s

95th percentile per-packet one-way delay: 53.071 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 14.06 Mbit/s

95th percentile per-packet one-way delay: 54.820 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 242.44 Mbit/s

95th percentile per-packet one-way delay: 50.454 ms

Loss rate: 0.00%

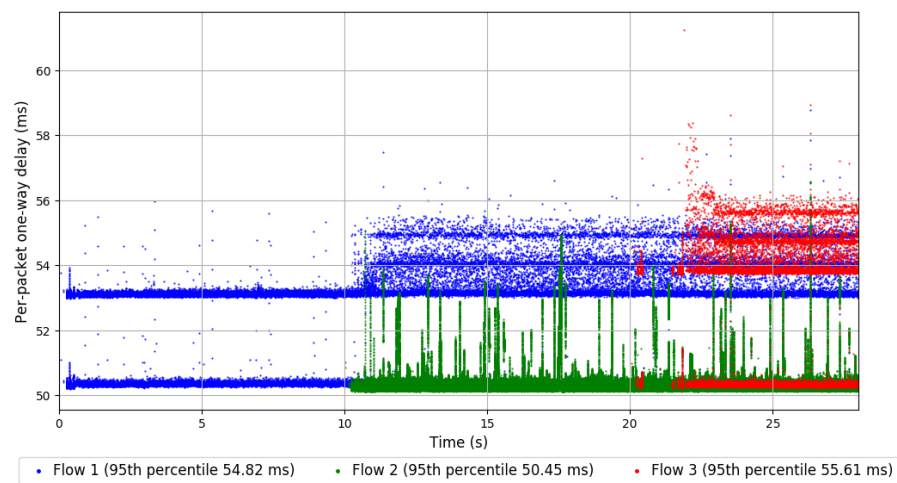
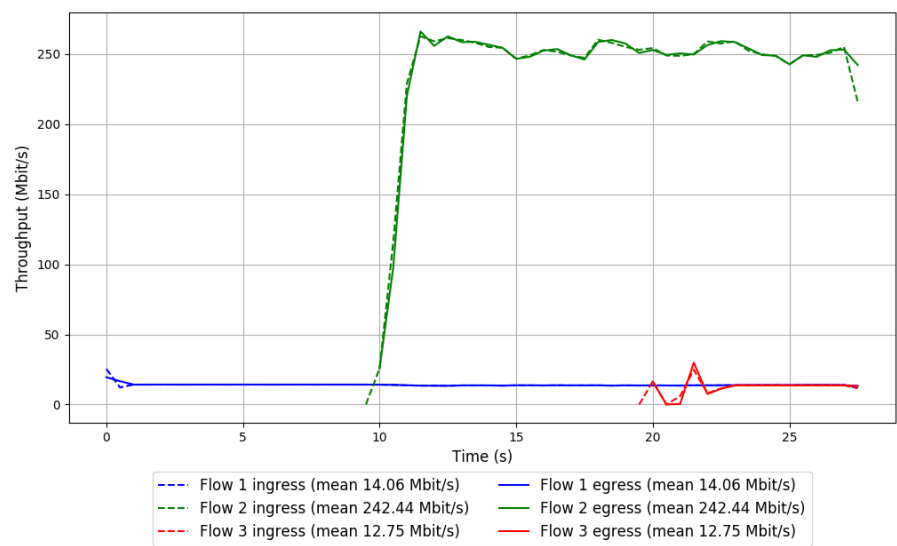
-- Flow 3:

Average throughput: 12.75 Mbit/s

95th percentile per-packet one-way delay: 55.606 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-22 11:06:42

End at: 2017-09-22 11:07:12

Below is generated by plot.py at 2017-09-22 13:21:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.23 Mbit/s

95th percentile per-packet one-way delay: 55.949 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 25.47 Mbit/s

95th percentile per-packet one-way delay: 54.027 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 237.82 Mbit/s

95th percentile per-packet one-way delay: 50.520 ms

Loss rate: 0.00%

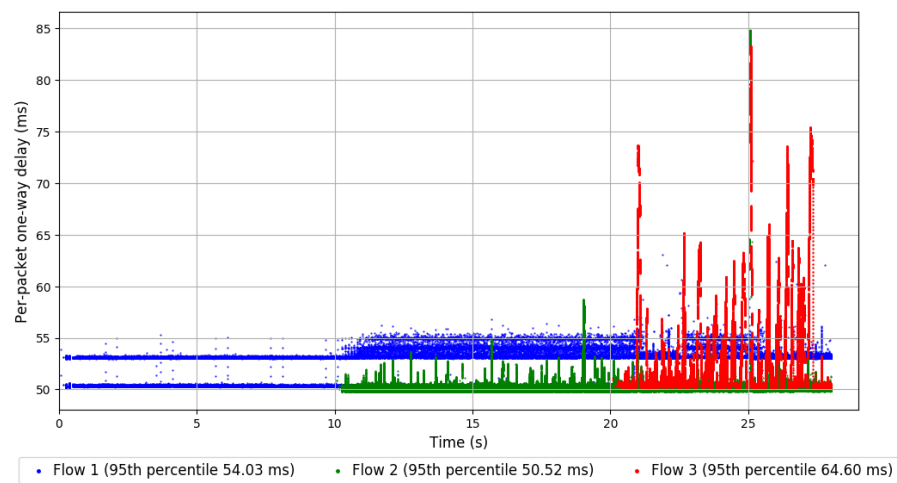
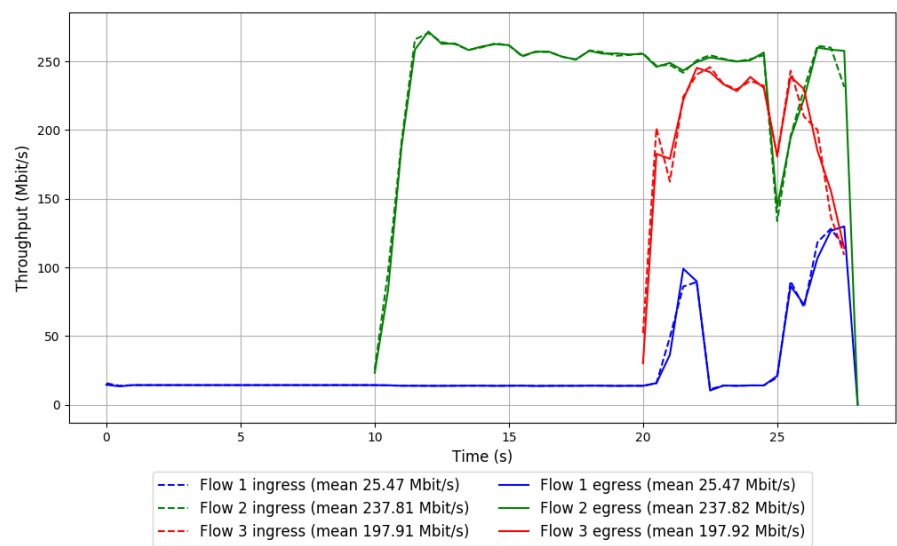
-- Flow 3:

Average throughput: 197.92 Mbit/s

95th percentile per-packet one-way delay: 64.603 ms

Loss rate: 0.00%

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

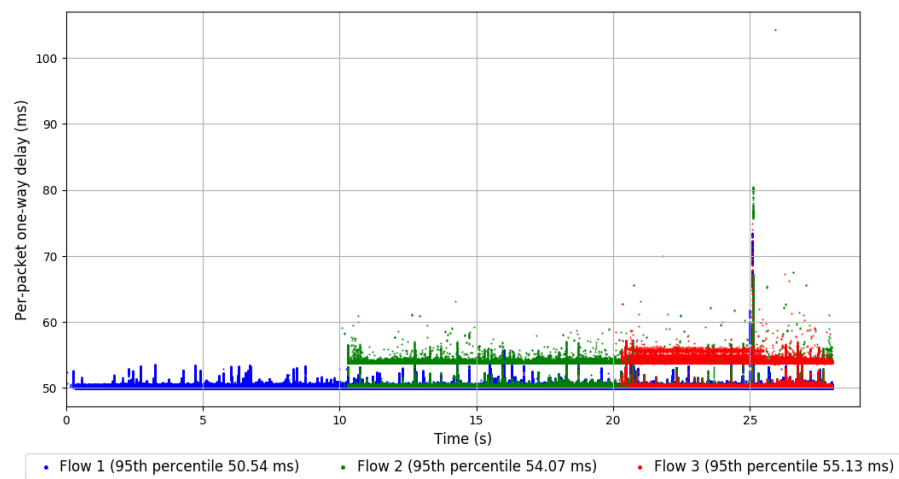
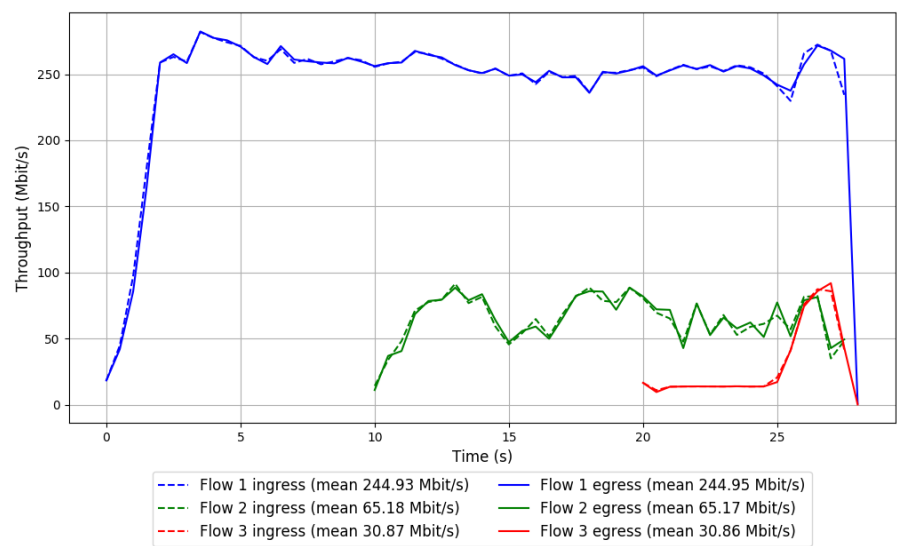


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-22 11:19:11
End at: 2017-09-22 11:19:41

# Below is generated by plot.py at 2017-09-22 13:23:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.48 Mbit/s
95th percentile per-packet one-way delay: 53.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.95 Mbit/s
95th percentile per-packet one-way delay: 50.540 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 65.17 Mbit/s
95th percentile per-packet one-way delay: 54.071 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 55.126 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-22 09:31:05

End at: 2017-09-22 09:31:35

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 51.810 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 51.612 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 51.406 ms

Loss rate: 0.01%

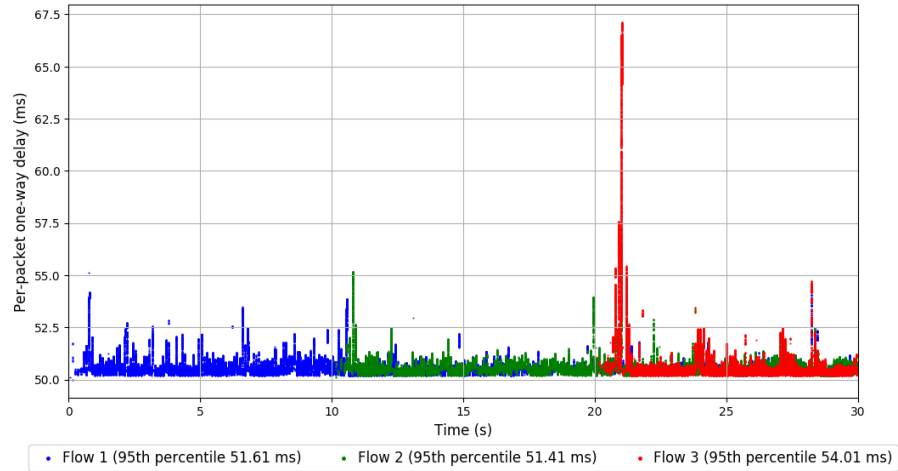
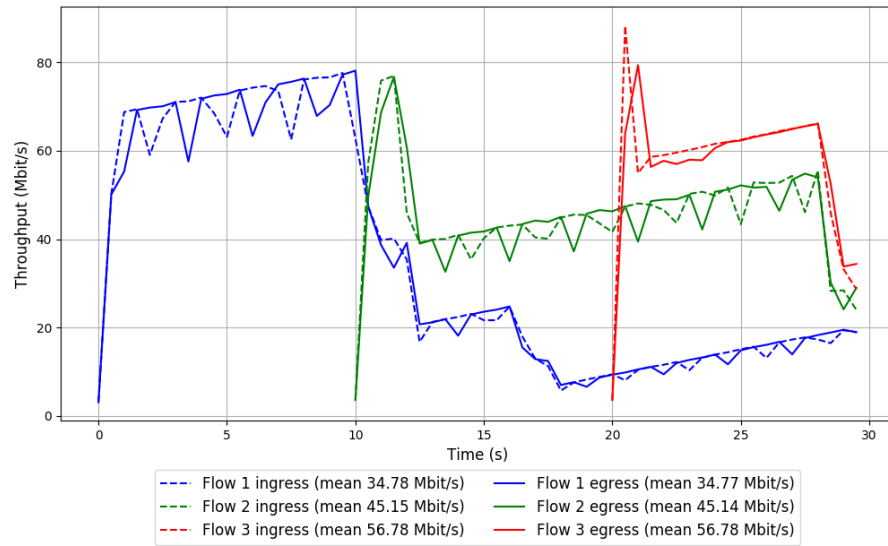
-- Flow 3:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-22 09:43:32

End at: 2017-09-22 09:44:02

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.82 Mbit/s

95th percentile per-packet one-way delay: 51.908 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 87.29 Mbit/s

95th percentile per-packet one-way delay: 52.117 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 51.558 ms

Loss rate: 0.00%

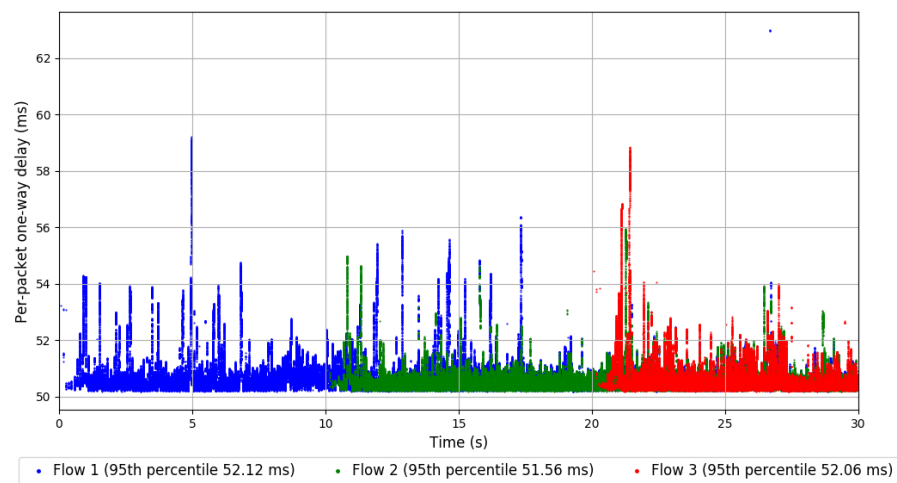
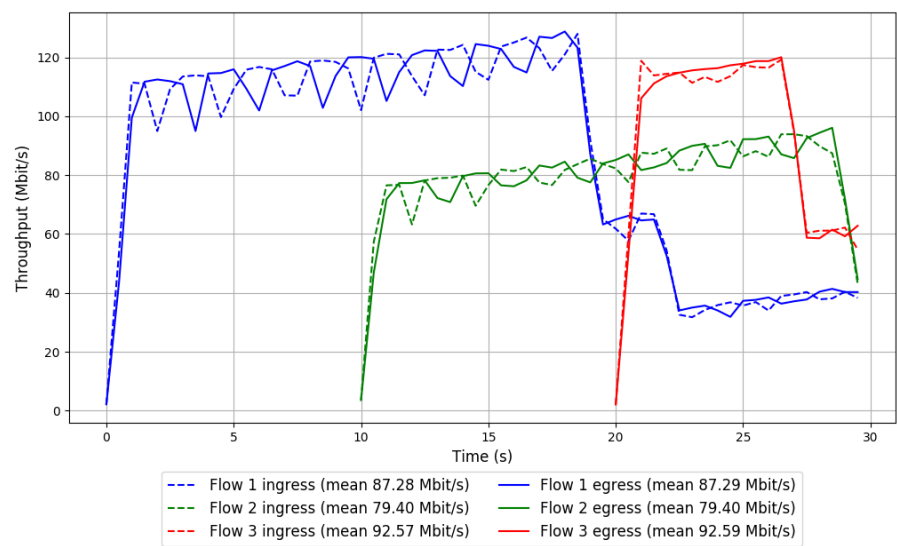
-- Flow 3:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 52.059 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-09-22 09:56:15

End at: 2017-09-22 09:56:45

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 124.04 Mbit/s

95th percentile per-packet one-way delay: 51.529 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 82.00 Mbit/s

95th percentile per-packet one-way delay: 51.546 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 51.512 ms

Loss rate: 0.01%

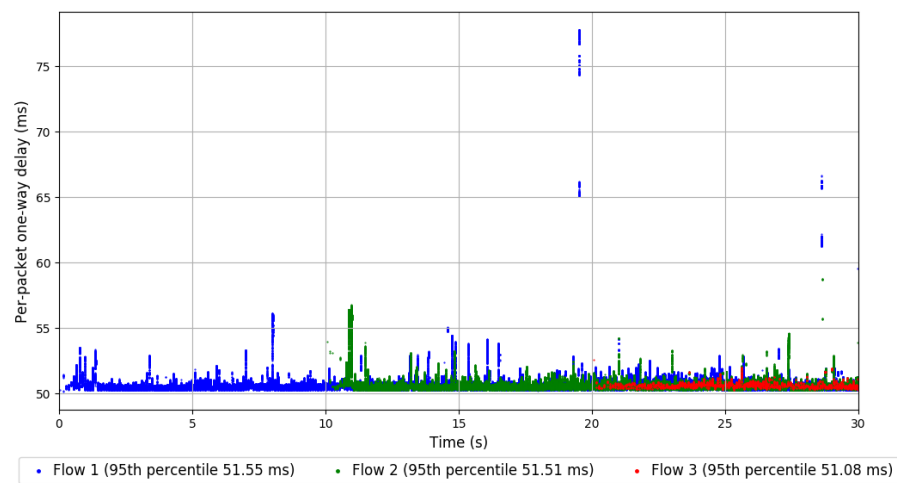
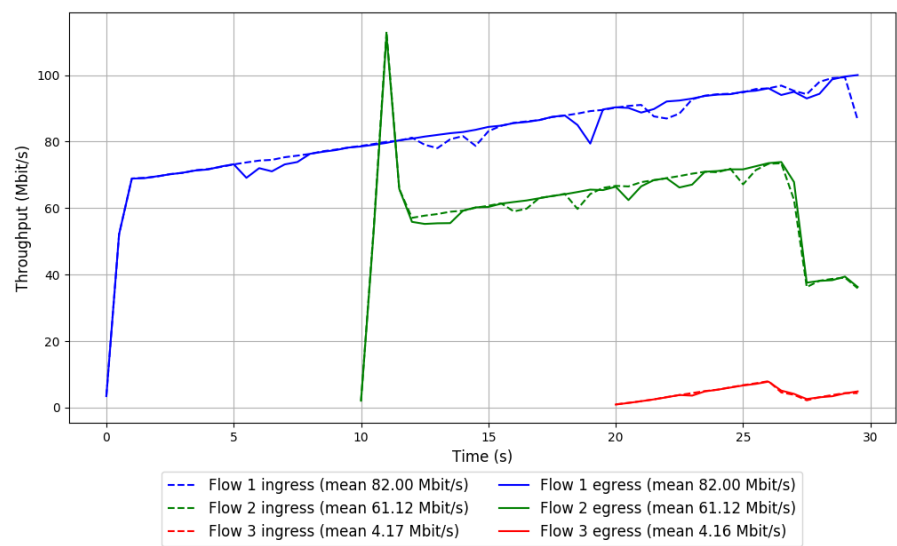
-- Flow 3:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 51.084 ms

Loss rate: 0.32%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-09-22 10:08:43

End at: 2017-09-22 10:09:13

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 160.32 Mbit/s

95th percentile per-packet one-way delay: 52.007 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 70.85 Mbit/s

95th percentile per-packet one-way delay: 52.154 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.88 Mbit/s

95th percentile per-packet one-way delay: 52.023 ms

Loss rate: 0.00%

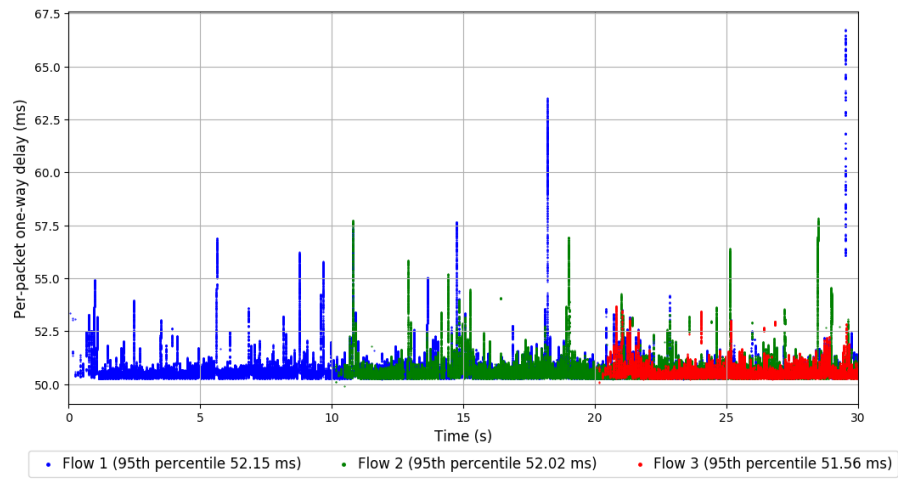
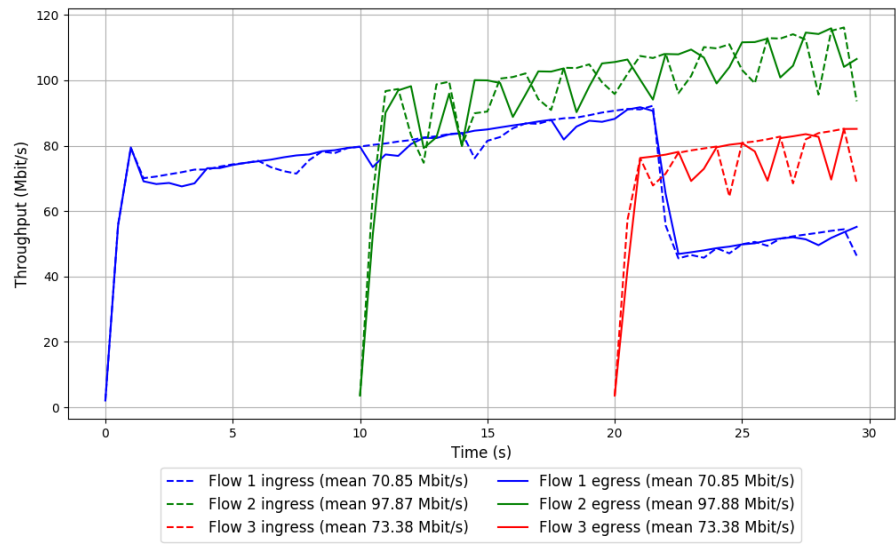
-- Flow 3:

Average throughput: 73.38 Mbit/s

95th percentile per-packet one-way delay: 51.564 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-22 10:21:17

End at: 2017-09-22 10:21:47

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 51.305 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 32.59 Mbit/s

95th percentile per-packet one-way delay: 51.295 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 55.85 Mbit/s

95th percentile per-packet one-way delay: 51.021 ms

Loss rate: 0.00%

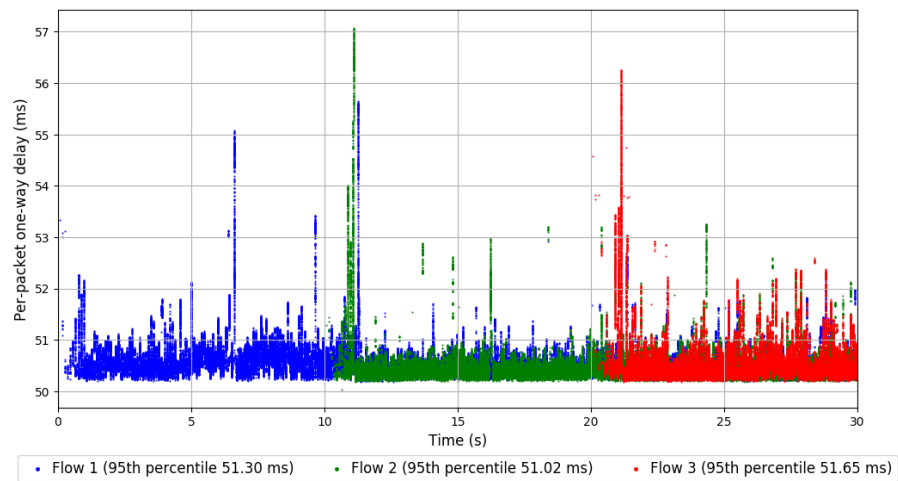
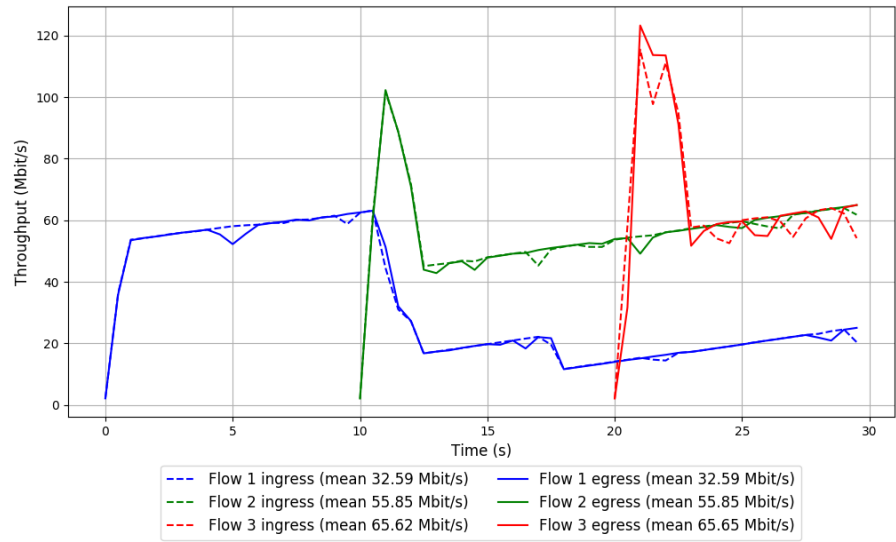
-- Flow 3:

Average throughput: 65.65 Mbit/s

95th percentile per-packet one-way delay: 51.647 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-09-22 10:33:38

End at: 2017-09-22 10:34:08

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 147.89 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 67.00 Mbit/s

95th percentile per-packet one-way delay: 51.473 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 83.51 Mbit/s

95th percentile per-packet one-way delay: 51.848 ms

Loss rate: 0.00%

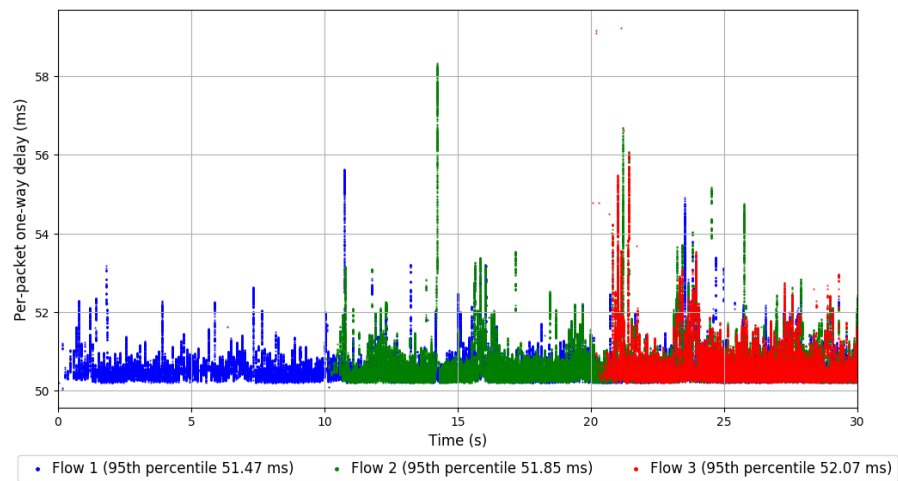
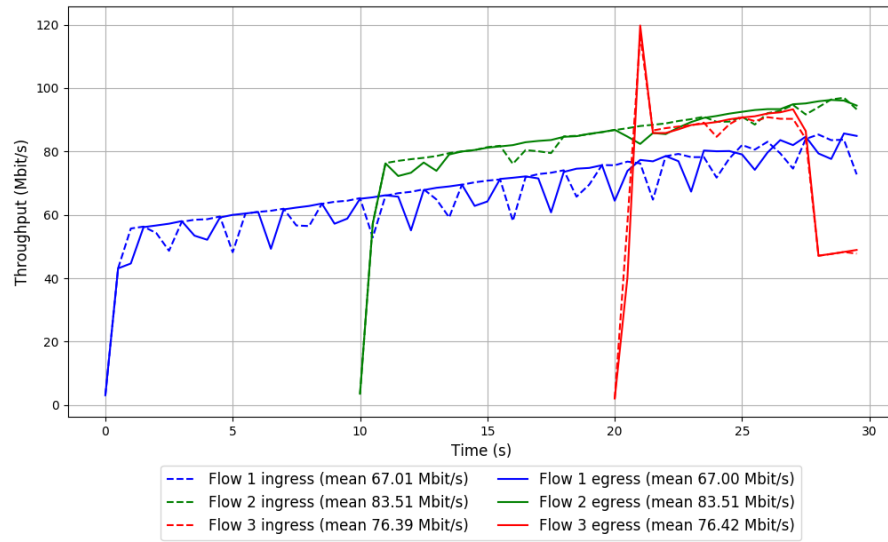
-- Flow 3:

Average throughput: 76.42 Mbit/s

95th percentile per-packet one-way delay: 52.070 ms

Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-22 10:45:58

End at: 2017-09-22 10:46:28

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.87 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.34 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.20 Mbit/s

95th percentile per-packet one-way delay: 51.106 ms

Loss rate: 0.04%

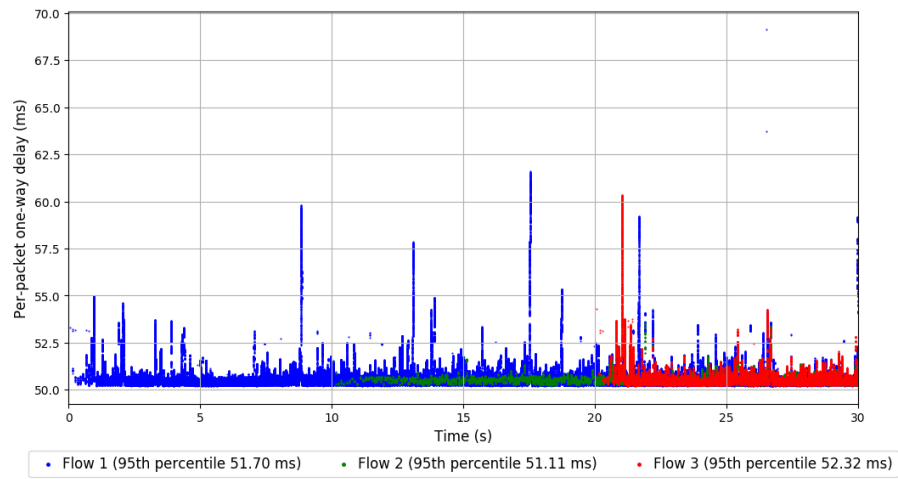
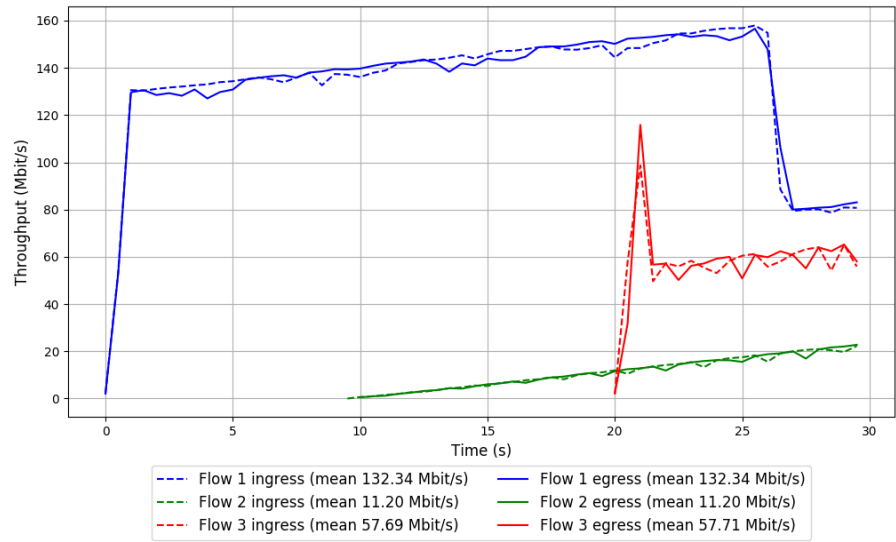
-- Flow 3:

Average throughput: 57.71 Mbit/s

95th percentile per-packet one-way delay: 52.316 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-09-22 10:58:26

End at: 2017-09-22 10:58:56

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 206.67 Mbit/s

95th percentile per-packet one-way delay: 51.717 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 137.74 Mbit/s

95th percentile per-packet one-way delay: 51.749 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 51.603 ms

Loss rate: 0.00%

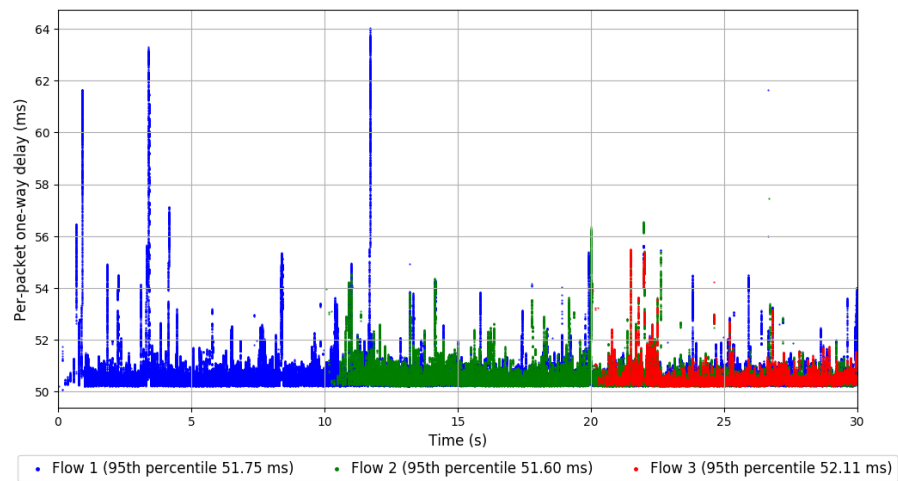
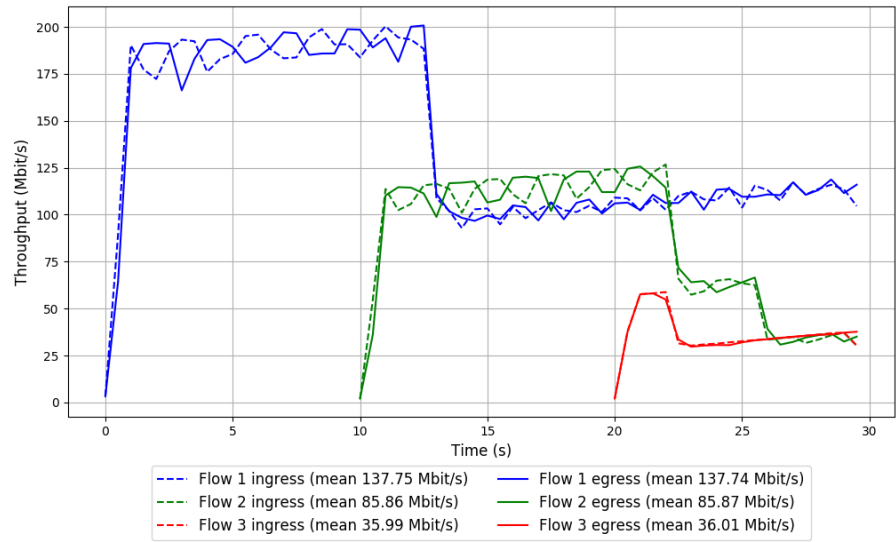
-- Flow 3:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 52.112 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-09-22 11:10:59

End at: 2017-09-22 11:11:29

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 115.12 Mbit/s

95th percentile per-packet one-way delay: 51.757 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 46.65 Mbit/s

95th percentile per-packet one-way delay: 51.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 80.89 Mbit/s

95th percentile per-packet one-way delay: 51.680 ms

Loss rate: 0.00%

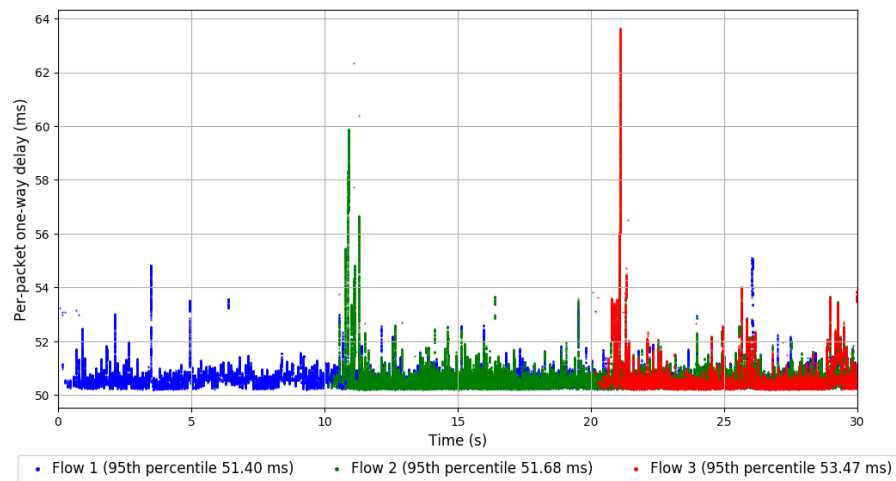
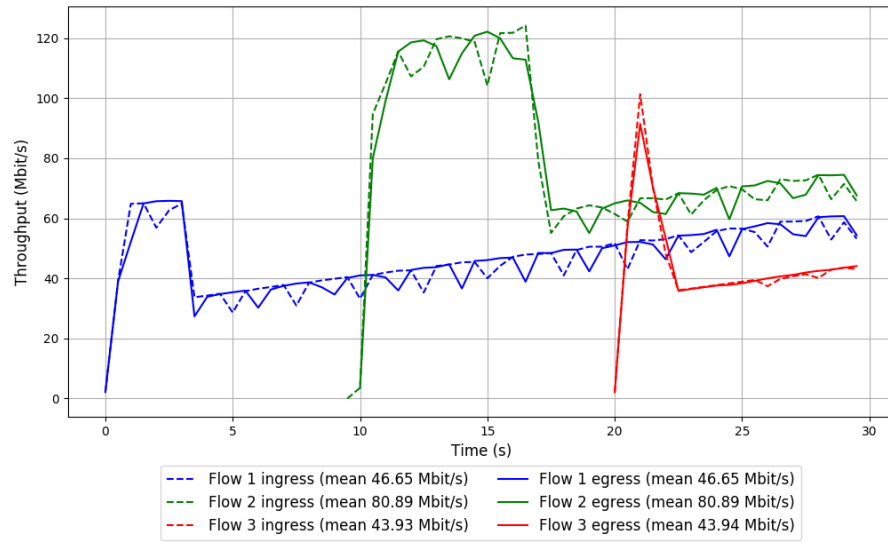
-- Flow 3:

Average throughput: 43.94 Mbit/s

95th percentile per-packet one-way delay: 53.472 ms

Loss rate: 0.02%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-09-22 11:23:33

End at: 2017-09-22 11:24:03

Below is generated by plot.py at 2017-09-22 13:23:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 177.11 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 51.661 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 85.66 Mbit/s

95th percentile per-packet one-way delay: 51.800 ms

Loss rate: 0.00%

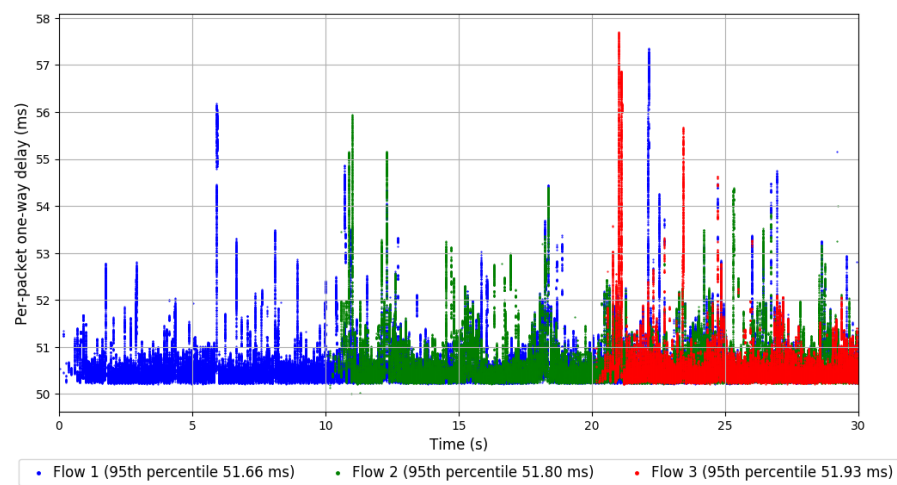
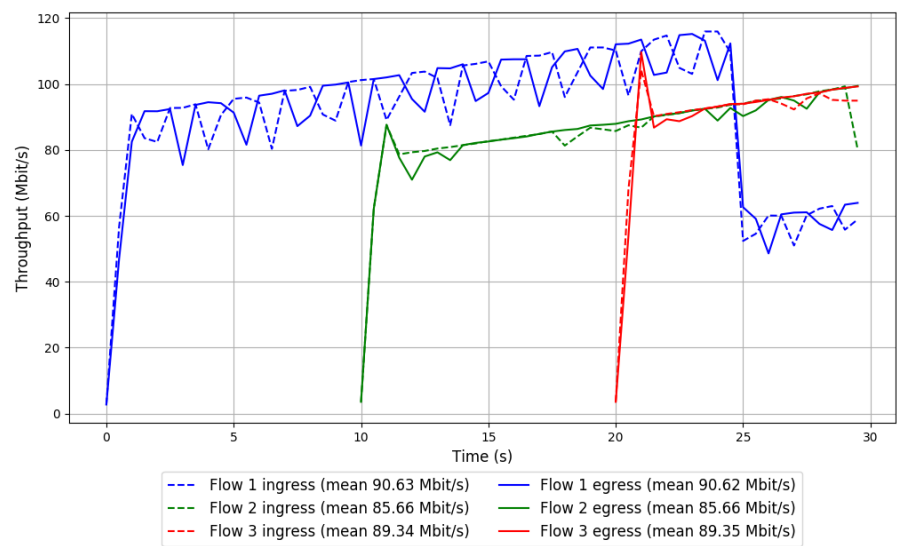
-- Flow 3:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 51.934 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

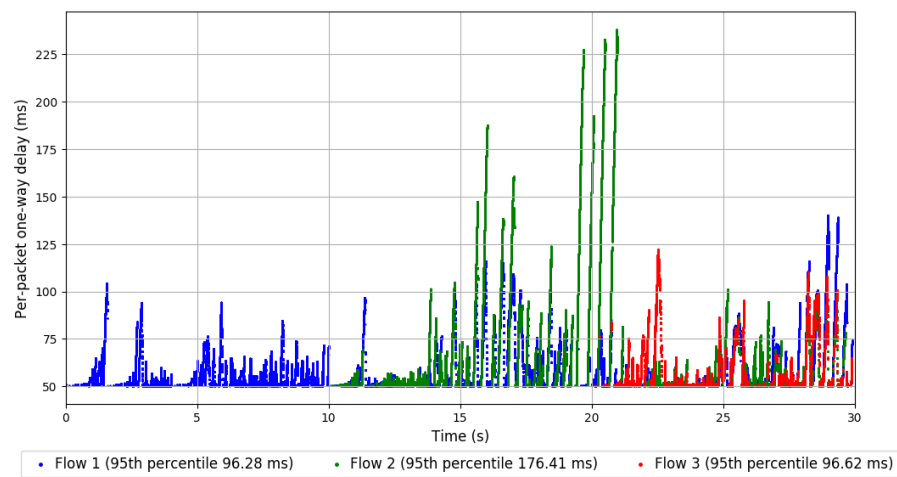
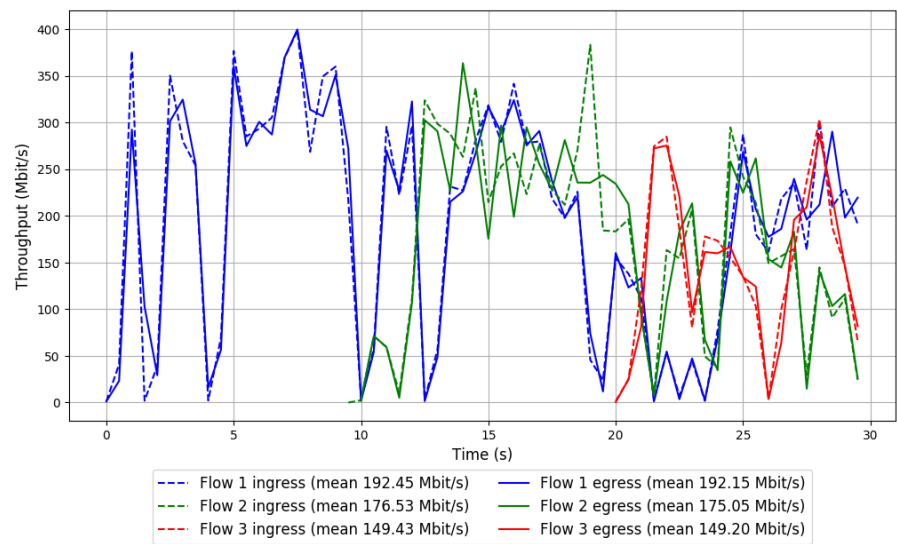


```
Run 1: Statistics of Verus

Start at: 2017-09-22 09:21:07
End at: 2017-09-22 09:21:37

# Below is generated by plot.py at 2017-09-22 13:26:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.48 Mbit/s
95th percentile per-packet one-way delay: 114.666 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 192.15 Mbit/s
95th percentile per-packet one-way delay: 96.284 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 175.05 Mbit/s
95th percentile per-packet one-way delay: 176.413 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 149.20 Mbit/s
95th percentile per-packet one-way delay: 96.617 ms
Loss rate: 0.00%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-22 09:33:26

End at: 2017-09-22 09:33:56

Below is generated by plot.py at 2017-09-22 13:26:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 359.05 Mbit/s

95th percentile per-packet one-way delay: 96.147 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 189.52 Mbit/s

95th percentile per-packet one-way delay: 82.690 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 211.72 Mbit/s

95th percentile per-packet one-way delay: 109.294 ms

Loss rate: 0.00%

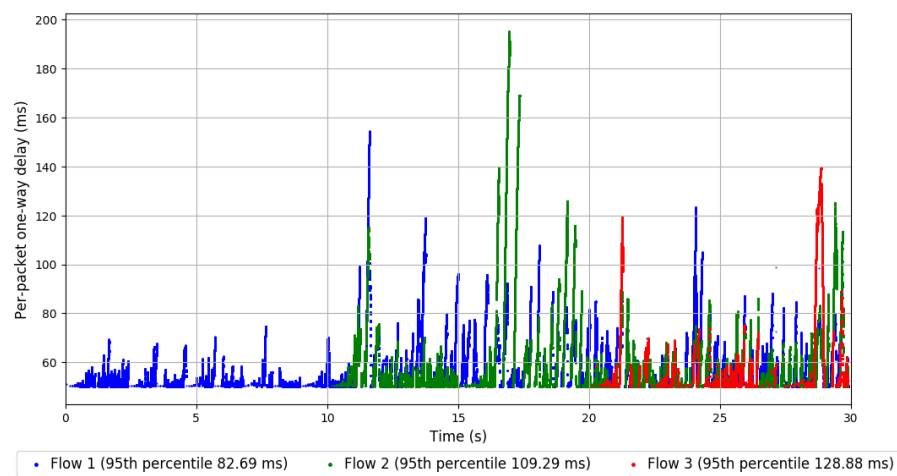
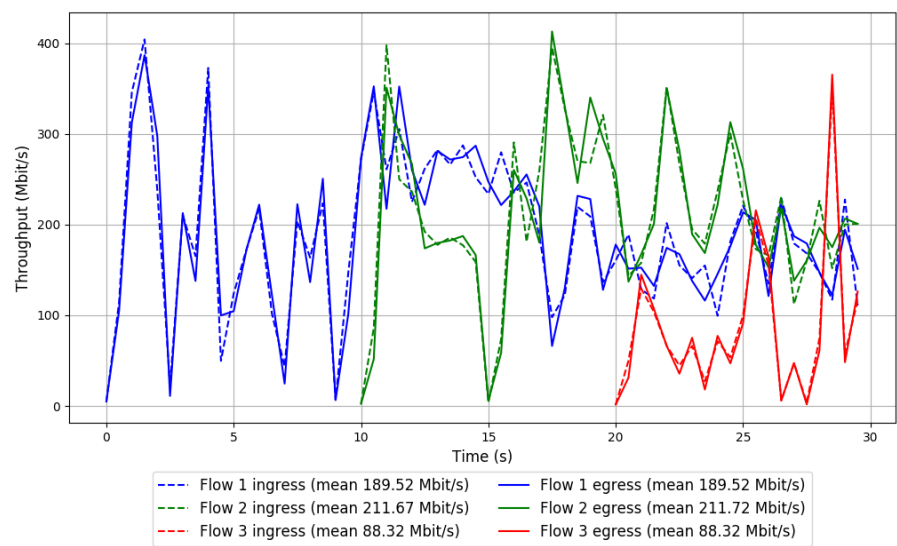
-- Flow 3:

Average throughput: 88.32 Mbit/s

95th percentile per-packet one-way delay: 128.877 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-09-22 09:45:58

End at: 2017-09-22 09:46:28

Below is generated by plot.py at 2017-09-22 13:27:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 372.45 Mbit/s

95th percentile per-packet one-way delay: 139.325 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 198.44 Mbit/s

95th percentile per-packet one-way delay: 103.873 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 149.22 Mbit/s

95th percentile per-packet one-way delay: 113.238 ms

Loss rate: 0.04%

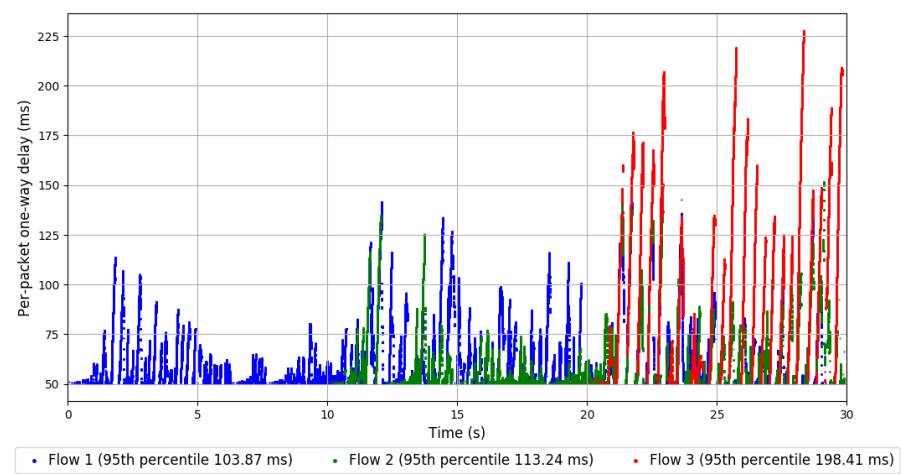
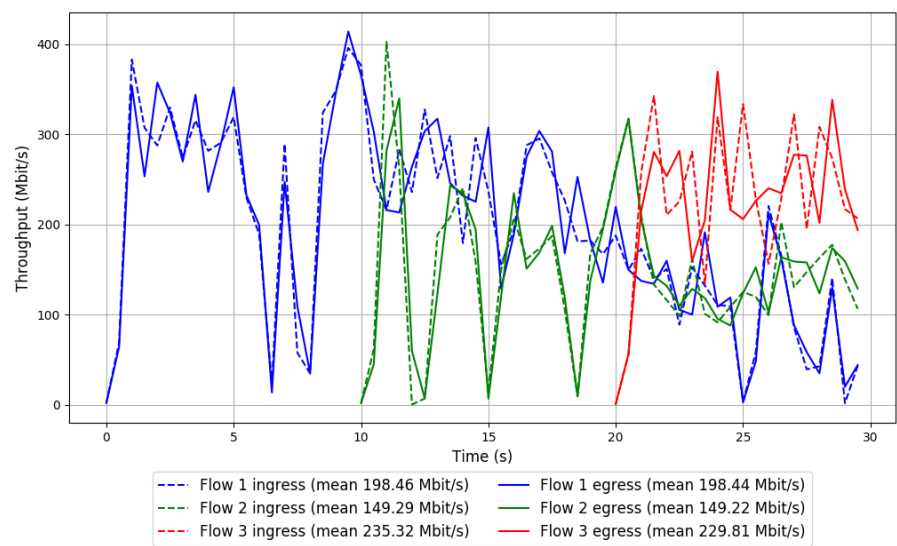
-- Flow 3:

Average throughput: 229.81 Mbit/s

95th percentile per-packet one-way delay: 198.413 ms

Loss rate: 0.91%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-09-22 09:58:37

End at: 2017-09-22 09:59:07

Below is generated by plot.py at 2017-09-22 13:27:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 360.27 Mbit/s

95th percentile per-packet one-way delay: 88.258 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 205.31 Mbit/s

95th percentile per-packet one-way delay: 83.680 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 197.01 Mbit/s

95th percentile per-packet one-way delay: 94.705 ms

Loss rate: 0.00%

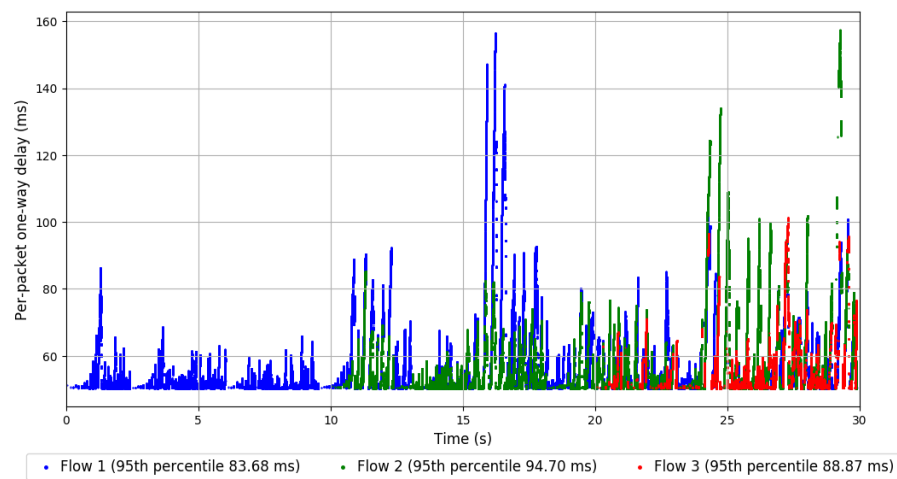
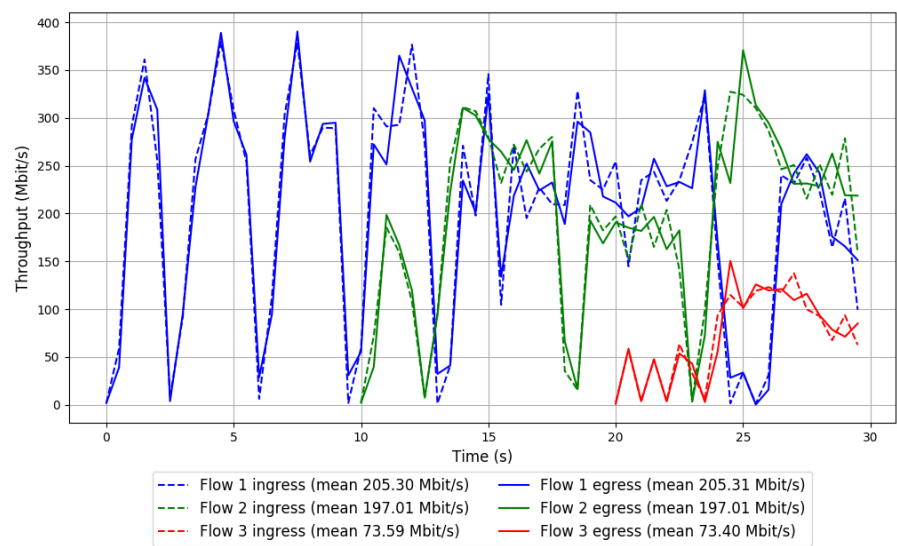
-- Flow 3:

Average throughput: 73.40 Mbit/s

95th percentile per-packet one-way delay: 88.872 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-09-22 10:11:08

End at: 2017-09-22 10:11:38

Below is generated by plot.py at 2017-09-22 13:27:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.28 Mbit/s

95th percentile per-packet one-way delay: 107.514 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.46 Mbit/s

95th percentile per-packet one-way delay: 83.163 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 196.42 Mbit/s

95th percentile per-packet one-way delay: 120.401 ms

Loss rate: 0.00%

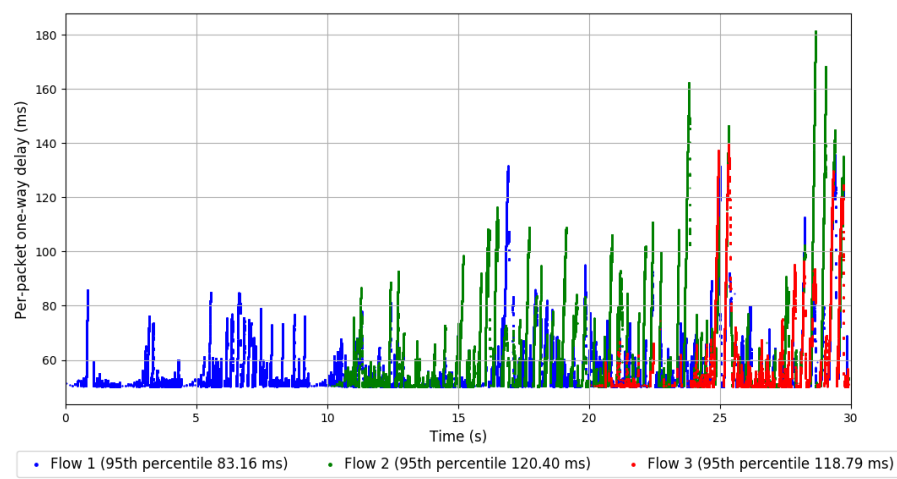
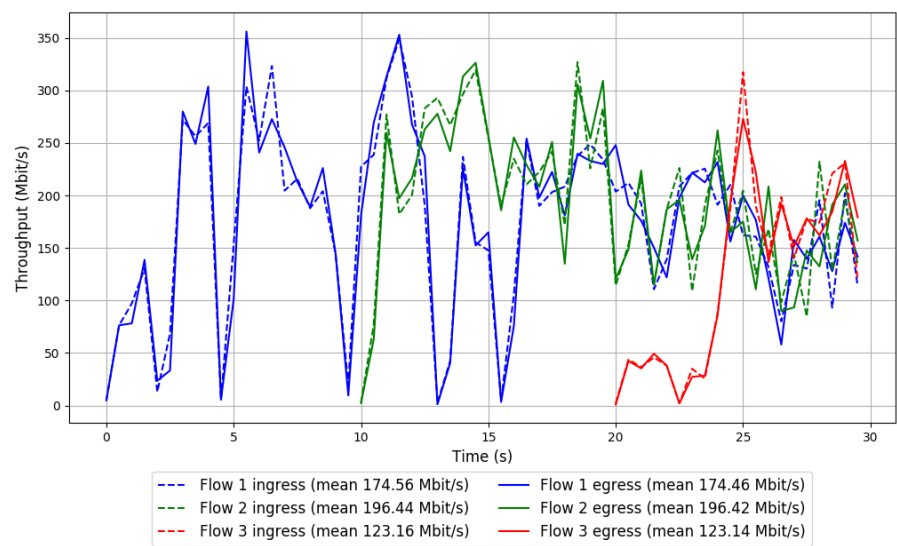
-- Flow 3:

Average throughput: 123.14 Mbit/s

95th percentile per-packet one-way delay: 118.788 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-09-22 10:23:39

End at: 2017-09-22 10:24:09

Below is generated by plot.py at 2017-09-22 13:29:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 414.56 Mbit/s

95th percentile per-packet one-way delay: 164.403 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 313.19 Mbit/s

95th percentile per-packet one-way delay: 168.793 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 132.40 Mbit/s

95th percentile per-packet one-way delay: 111.563 ms

Loss rate: 0.02%

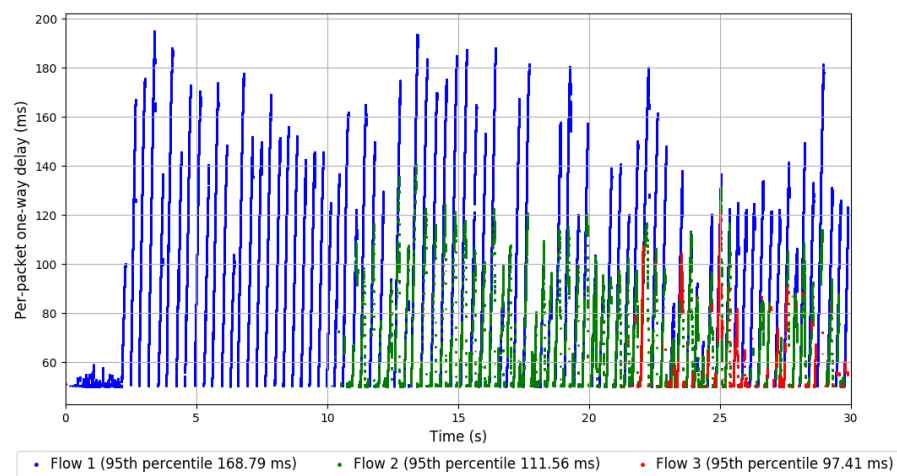
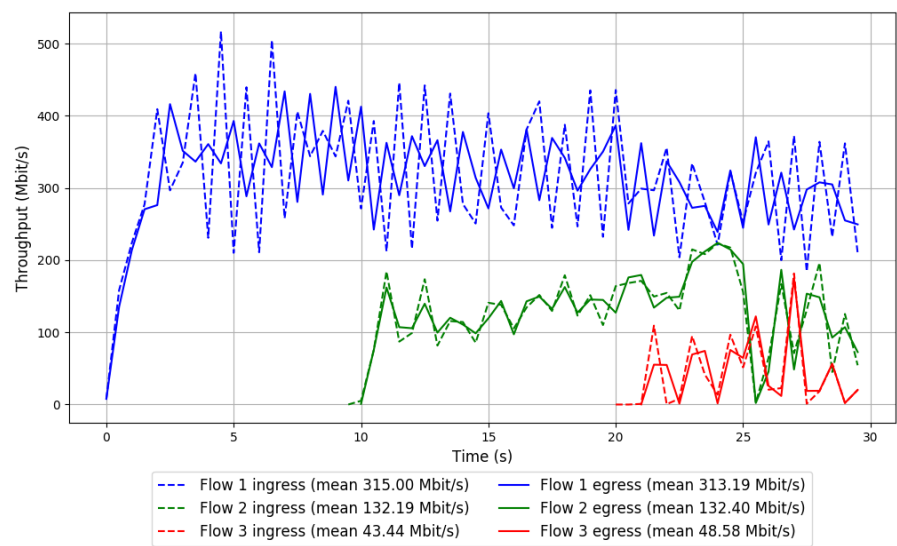
-- Flow 3:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 97.410 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-09-22 10:36:03

End at: 2017-09-22 10:36:33

Below is generated by plot.py at 2017-09-22 13:29:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.27 Mbit/s

95th percentile per-packet one-way delay: 171.840 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 265.24 Mbit/s

95th percentile per-packet one-way delay: 176.153 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 103.99 Mbit/s

95th percentile per-packet one-way delay: 102.503 ms

Loss rate: 0.16%

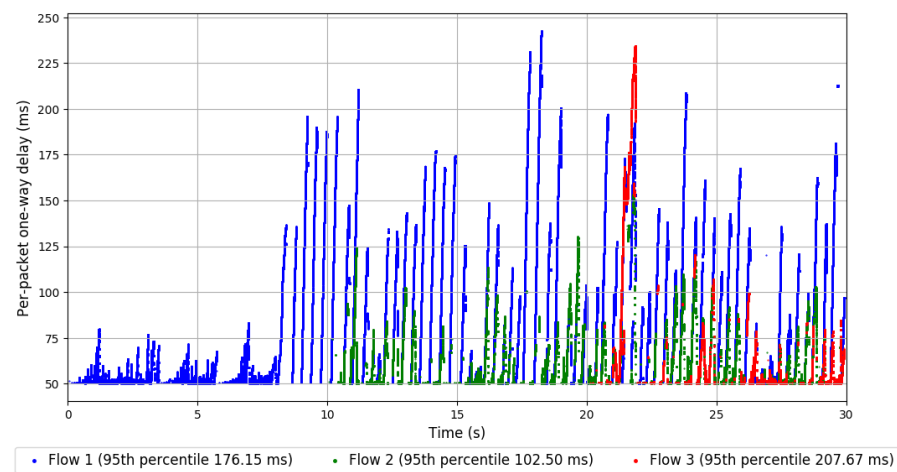
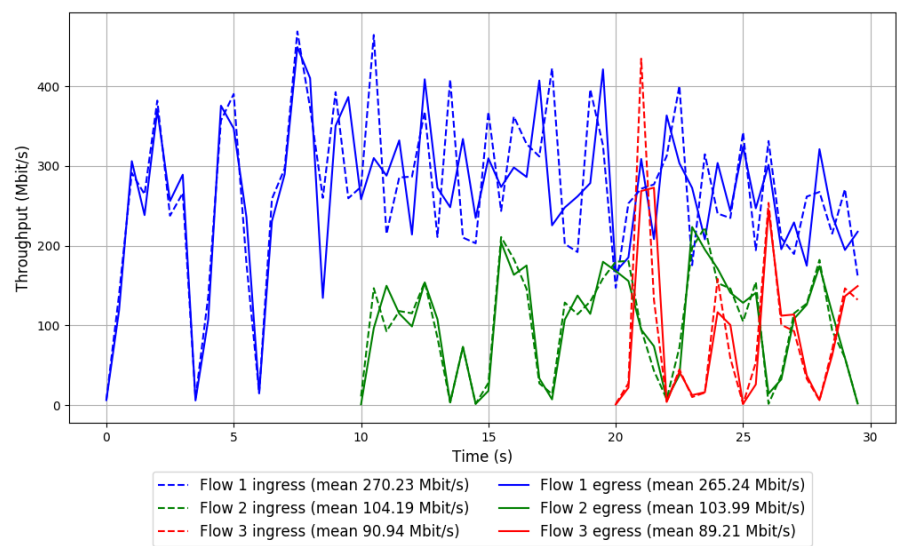
-- Flow 3:

Average throughput: 89.21 Mbit/s

95th percentile per-packet one-way delay: 207.667 ms

Loss rate: 1.78%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-09-22 10:48:24

End at: 2017-09-22 10:48:54

Below is generated by plot.py at 2017-09-22 13:30:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 329.63 Mbit/s

95th percentile per-packet one-way delay: 85.804 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.45 Mbit/s

95th percentile per-packet one-way delay: 82.997 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 156.17 Mbit/s

95th percentile per-packet one-way delay: 89.822 ms

Loss rate: 0.00%

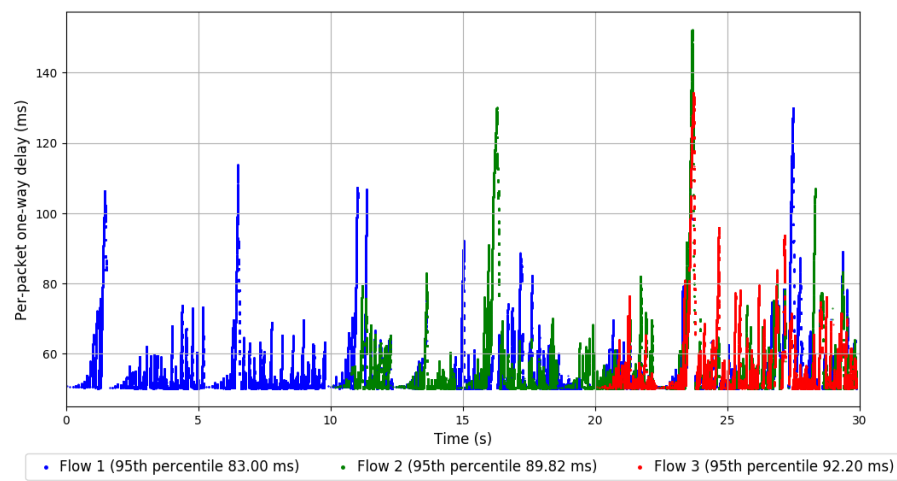
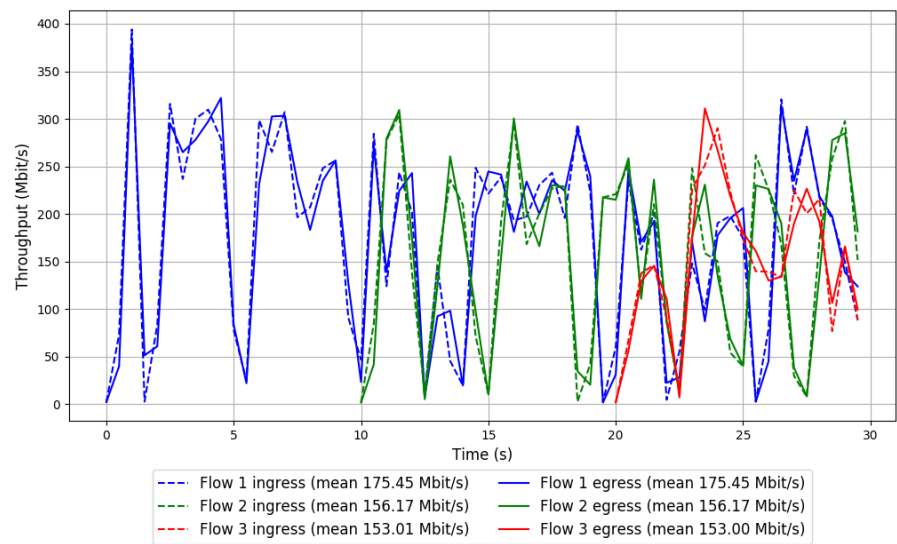
-- Flow 3:

Average throughput: 153.00 Mbit/s

95th percentile per-packet one-way delay: 92.198 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-09-22 11:00:55

End at: 2017-09-22 11:01:25

Below is generated by plot.py at 2017-09-22 13:31:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.84 Mbit/s

95th percentile per-packet one-way delay: 127.537 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 210.88 Mbit/s

95th percentile per-packet one-way delay: 137.212 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 137.53 Mbit/s

95th percentile per-packet one-way delay: 92.117 ms

Loss rate: 0.16%

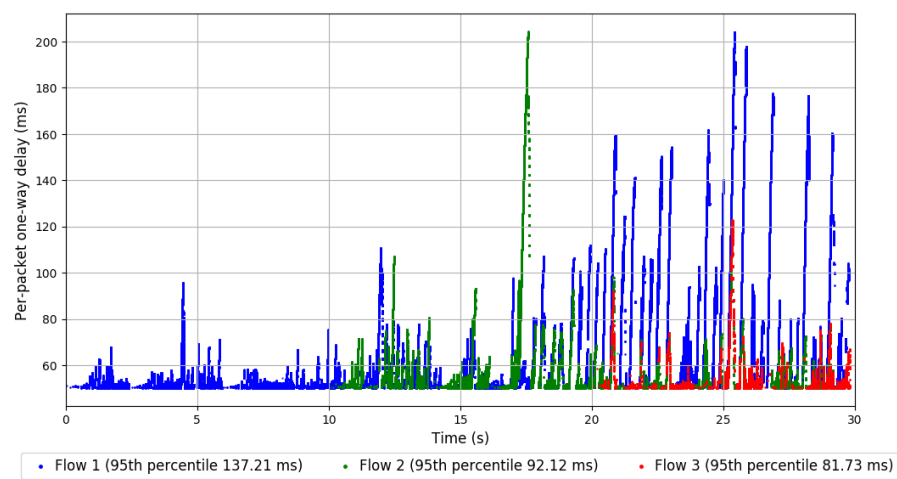
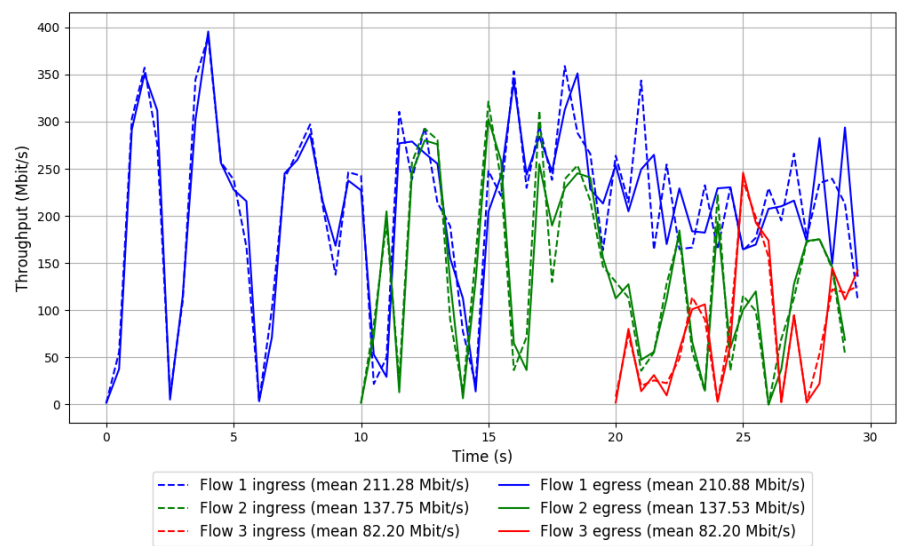
-- Flow 3:

Average throughput: 82.20 Mbit/s

95th percentile per-packet one-way delay: 81.730 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-09-22 11:13:22

End at: 2017-09-22 11:13:53

Below is generated by plot.py at 2017-09-22 13:32:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.94 Mbit/s

95th percentile per-packet one-way delay: 81.413 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 186.38 Mbit/s

95th percentile per-packet one-way delay: 83.309 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 123.96 Mbit/s

95th percentile per-packet one-way delay: 77.547 ms

Loss rate: 0.00%

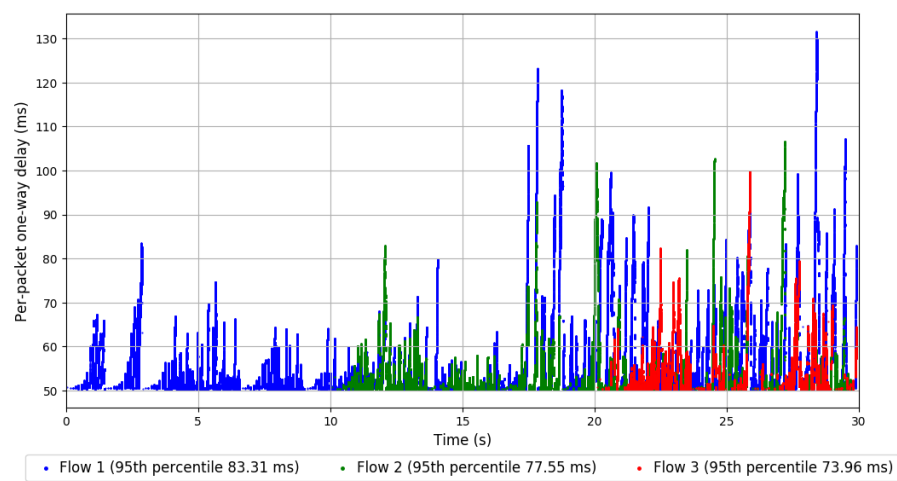
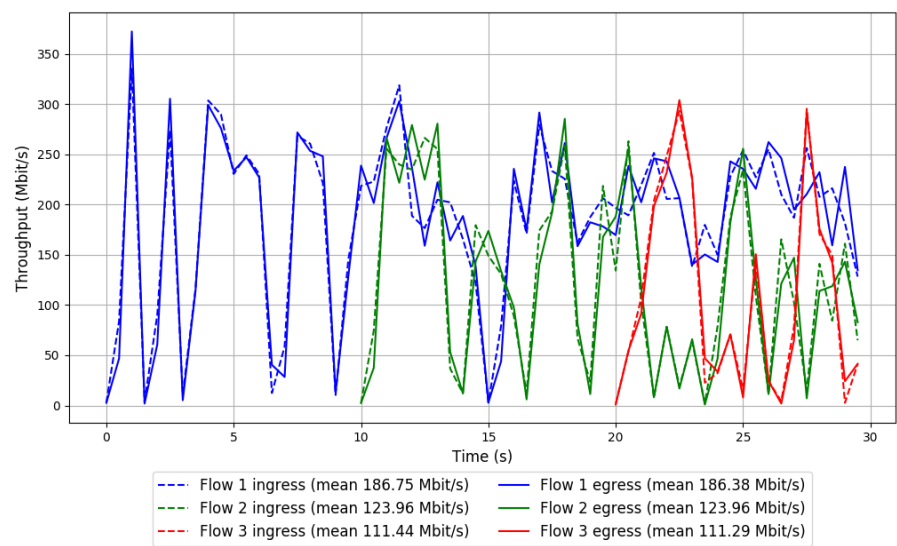
-- Flow 3:

Average throughput: 111.29 Mbit/s

95th percentile per-packet one-way delay: 73.962 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

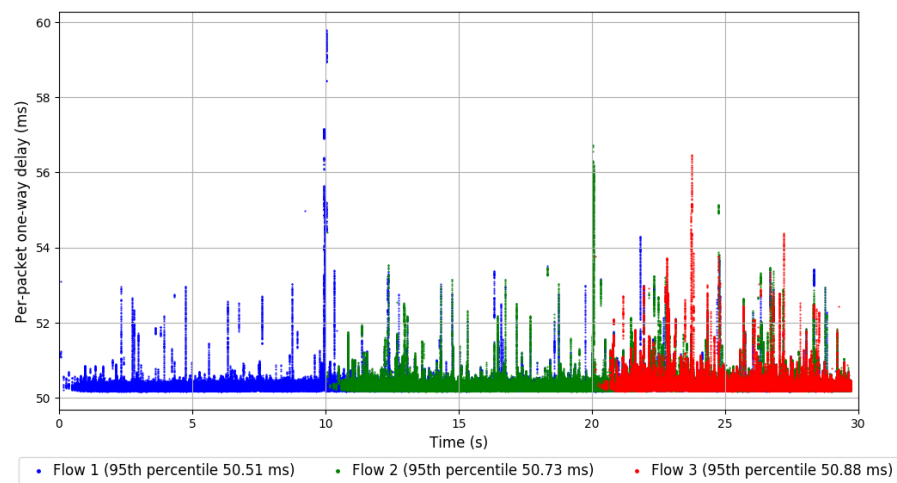
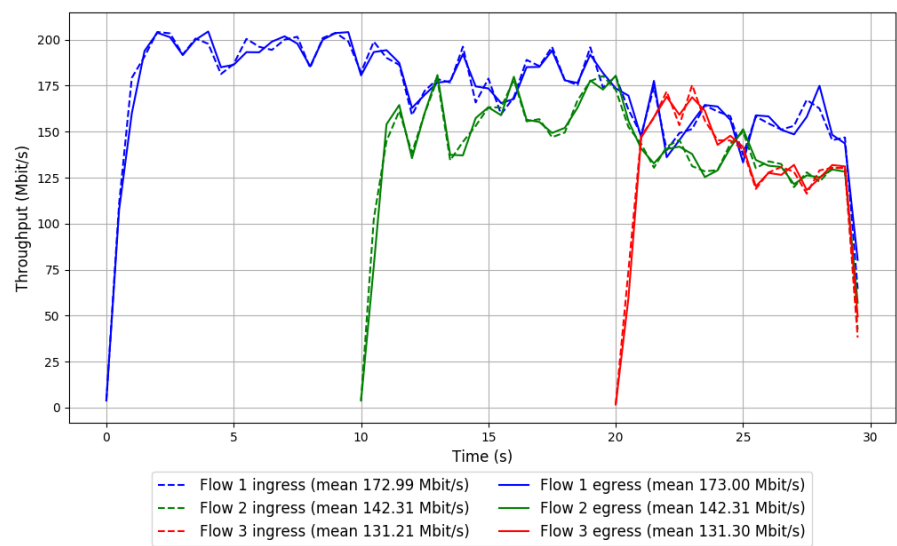


```
Run 1: Statistics of Indigo

Start at: 2017-09-22 09:25:49
End at: 2017-09-22 09:26:19

# Below is generated by plot.py at 2017-09-22 13:32:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.73 Mbit/s
95th percentile per-packet one-way delay: 50.629 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.00 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.31 Mbit/s
95th percentile per-packet one-way delay: 50.735 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 131.30 Mbit/s
95th percentile per-packet one-way delay: 50.882 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-22 09:38:09

End at: 2017-09-22 09:38:39

Below is generated by plot.py at 2017-09-22 13:32:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 310.13 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.33 Mbit/s

95th percentile per-packet one-way delay: 50.564 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.21 Mbit/s

95th percentile per-packet one-way delay: 50.926 ms

Loss rate: 0.00%

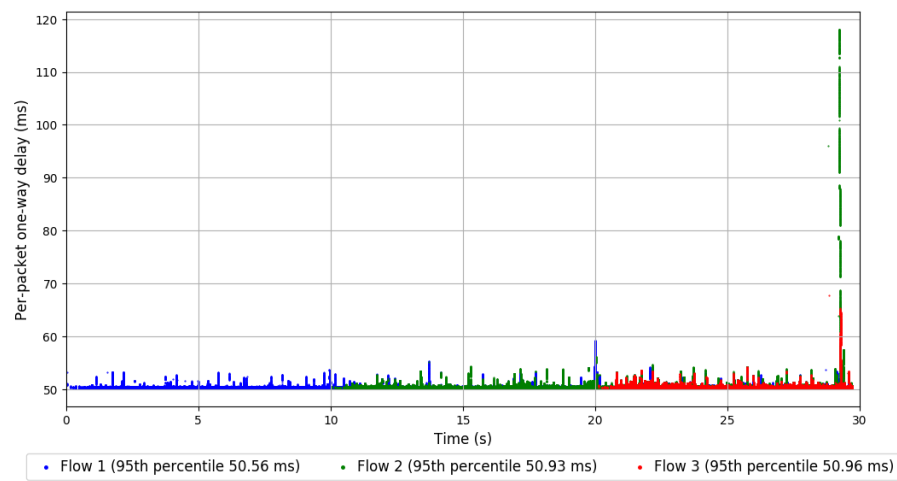
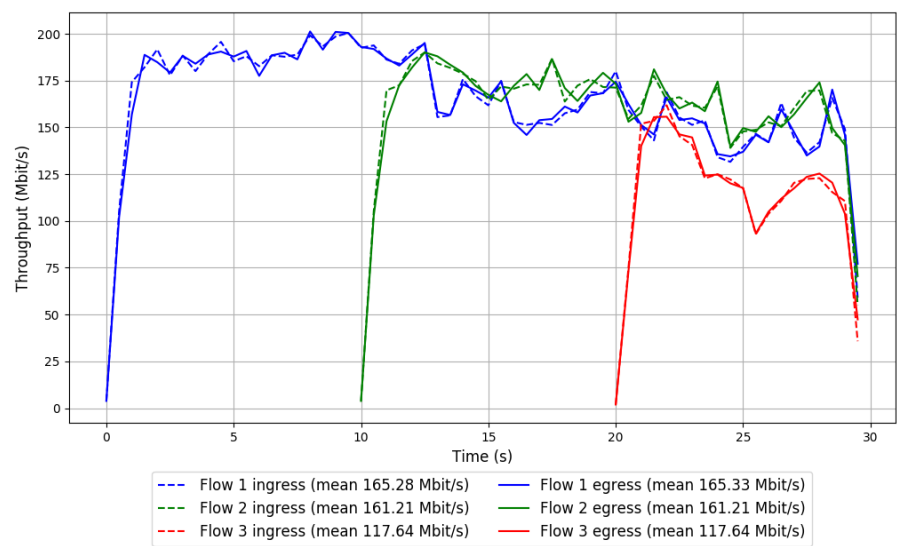
-- Flow 3:

Average throughput: 117.64 Mbit/s

95th percentile per-packet one-way delay: 50.960 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-22 09:50:45

End at: 2017-09-22 09:51:15

Below is generated by plot.py at 2017-09-22 13:33:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 324.70 Mbit/s

95th percentile per-packet one-way delay: 50.965 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 170.99 Mbit/s

95th percentile per-packet one-way delay: 50.969 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.27 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.00%

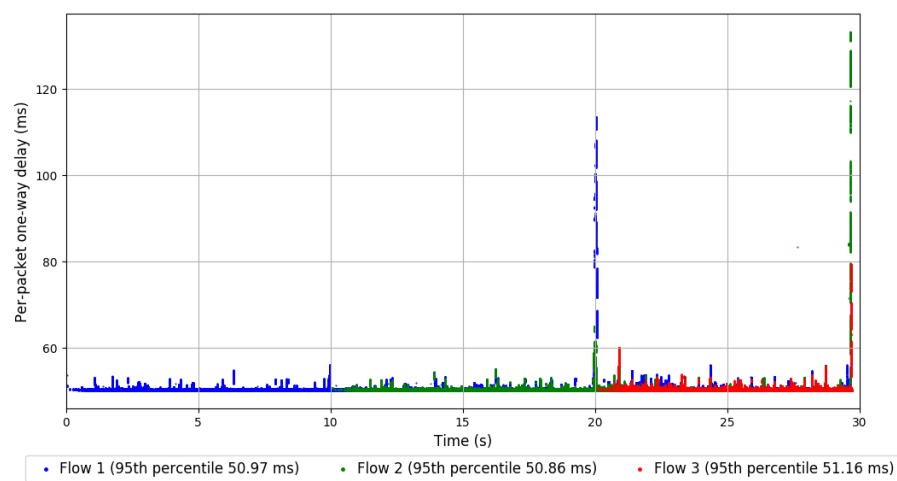
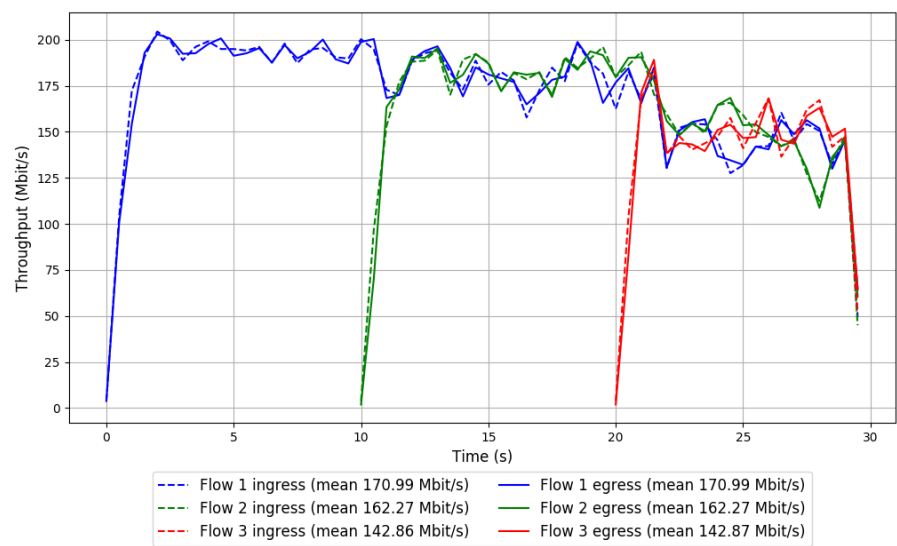
-- Flow 3:

Average throughput: 142.87 Mbit/s

95th percentile per-packet one-way delay: 51.165 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-09-22 10:03:20

End at: 2017-09-22 10:03:50

Below is generated by plot.py at 2017-09-22 13:34:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.10 Mbit/s

95th percentile per-packet one-way delay: 50.779 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.89 Mbit/s

95th percentile per-packet one-way delay: 50.639 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 161.95 Mbit/s

95th percentile per-packet one-way delay: 50.958 ms

Loss rate: 0.00%

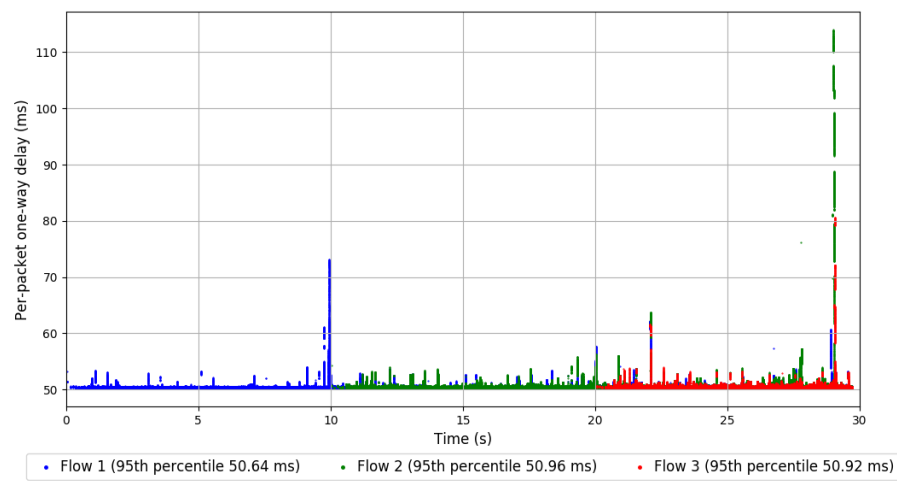
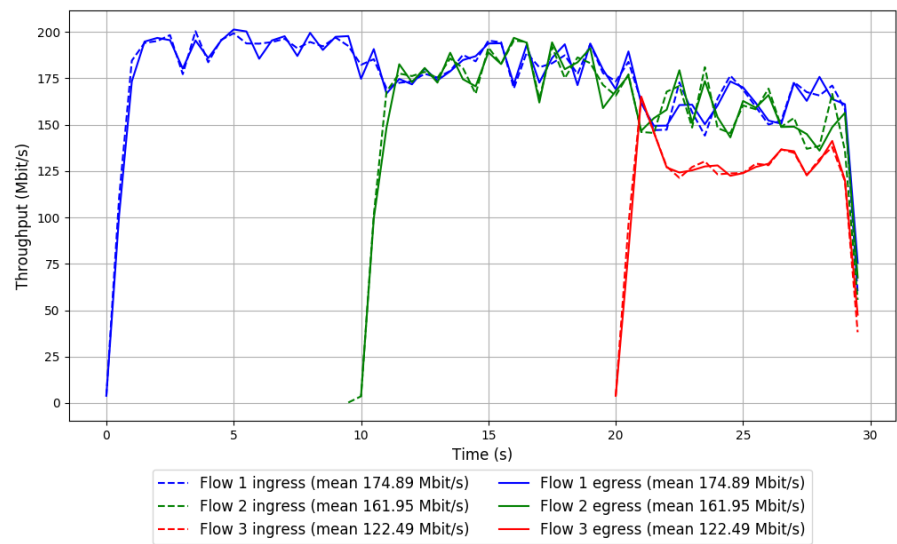
-- Flow 3:

Average throughput: 122.49 Mbit/s

95th percentile per-packet one-way delay: 50.922 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-22 10:15:54

End at: 2017-09-22 10:16:24

Below is generated by plot.py at 2017-09-22 13:34:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.62 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 173.64 Mbit/s

95th percentile per-packet one-way delay: 50.724 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 153.96 Mbit/s

95th percentile per-packet one-way delay: 51.022 ms

Loss rate: 0.00%

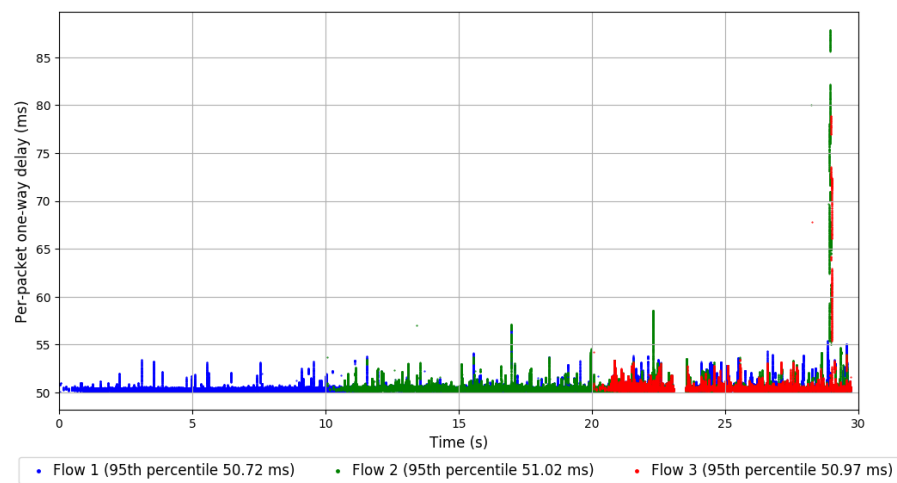
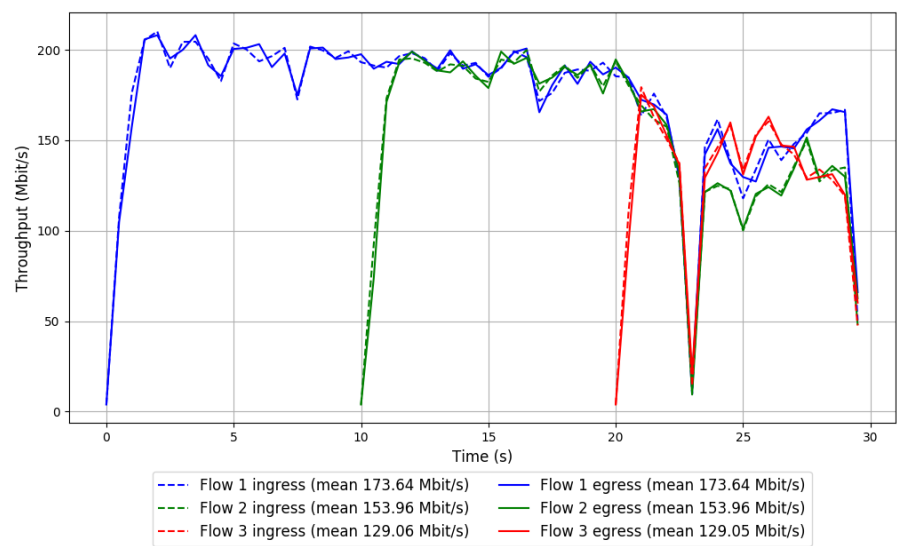
-- Flow 3:

Average throughput: 129.05 Mbit/s

95th percentile per-packet one-way delay: 50.969 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-22 10:28:32

End at: 2017-09-22 10:29:02

Below is generated by plot.py at 2017-09-22 13:36:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.92 Mbit/s

95th percentile per-packet one-way delay: 51.015 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 178.02 Mbit/s

95th percentile per-packet one-way delay: 50.847 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 163.70 Mbit/s

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

Loss rate: 0.00%

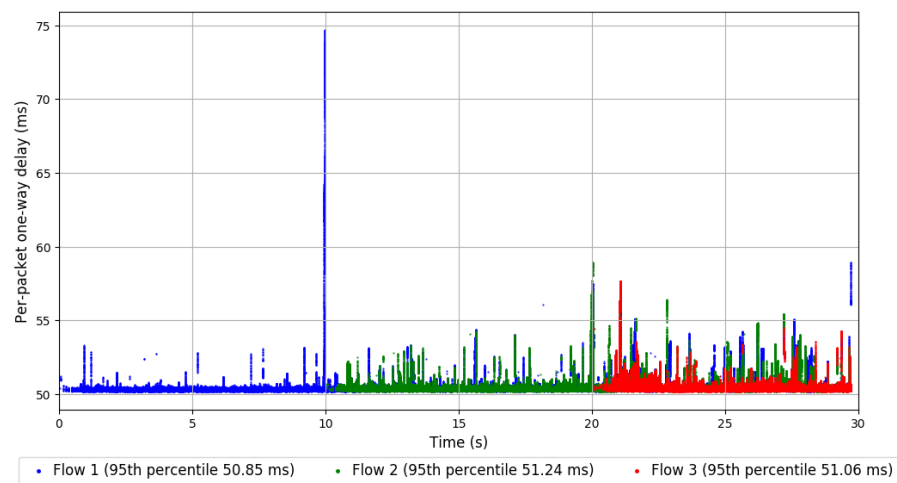
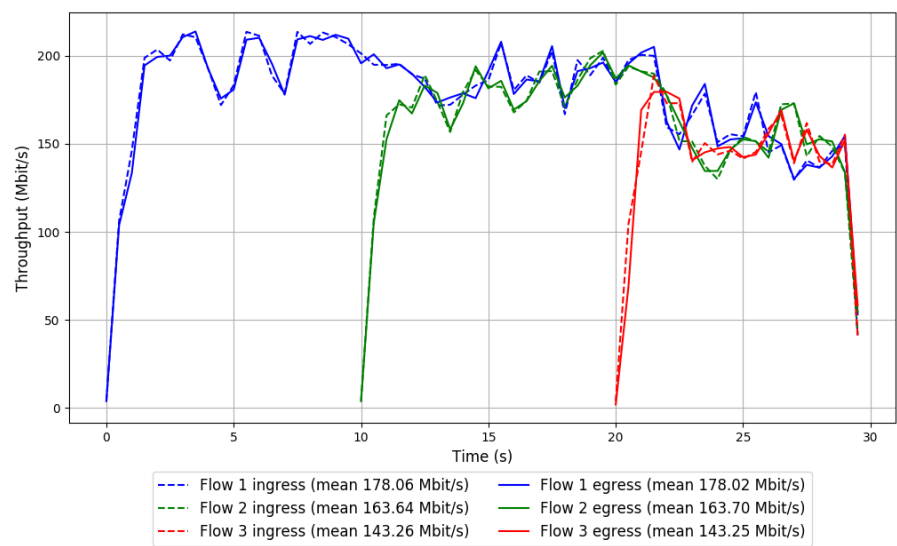
-- Flow 3:

Average throughput: 143.25 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-09-22 10:40:52

End at: 2017-09-22 10:41:22

Below is generated by plot.py at 2017-09-22 13:37:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.82 Mbit/s

95th percentile per-packet one-way delay: 50.831 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.34 Mbit/s

95th percentile per-packet one-way delay: 50.676 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.42 Mbit/s

95th percentile per-packet one-way delay: 51.018 ms

Loss rate: 0.00%

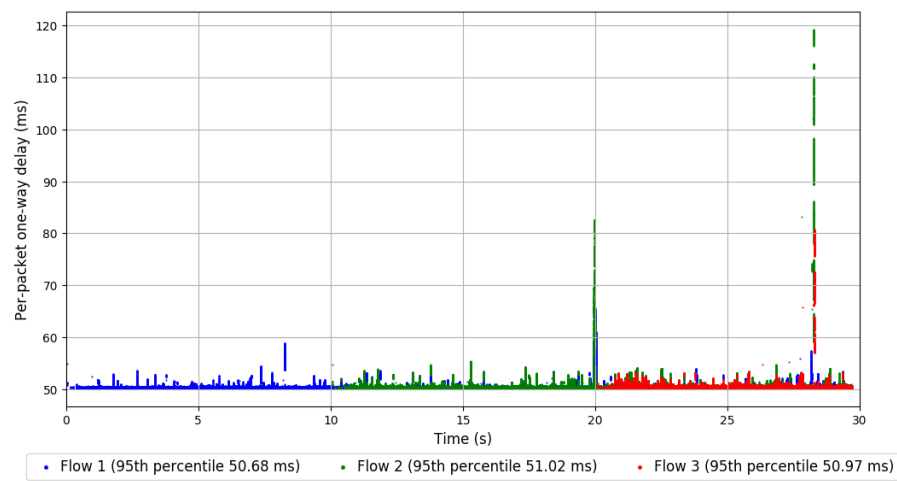
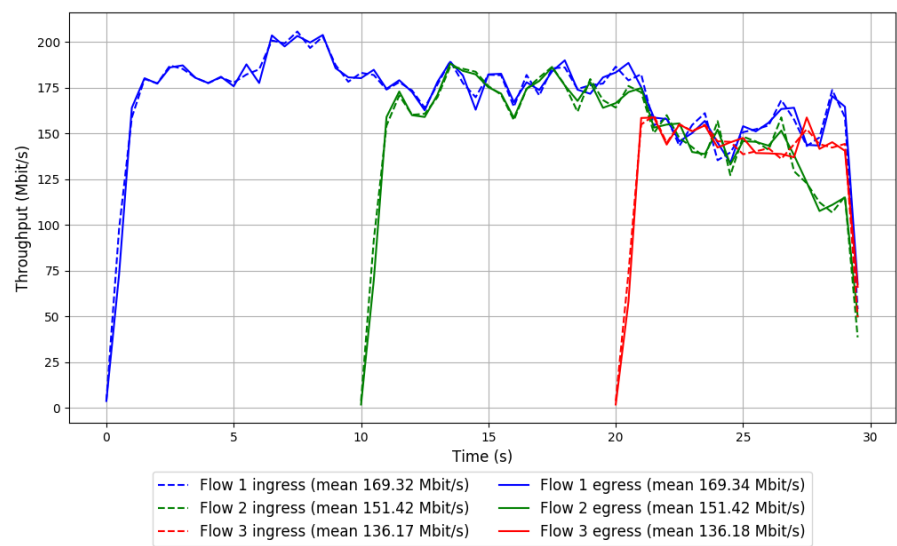
-- Flow 3:

Average throughput: 136.18 Mbit/s

95th percentile per-packet one-way delay: 50.969 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-22 10:53:12

End at: 2017-09-22 10:53:42

Below is generated by plot.py at 2017-09-22 13:37:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.55 Mbit/s

95th percentile per-packet one-way delay: 50.640 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 159.08 Mbit/s

95th percentile per-packet one-way delay: 50.533 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 151.82 Mbit/s

95th percentile per-packet one-way delay: 50.743 ms

Loss rate: 0.00%

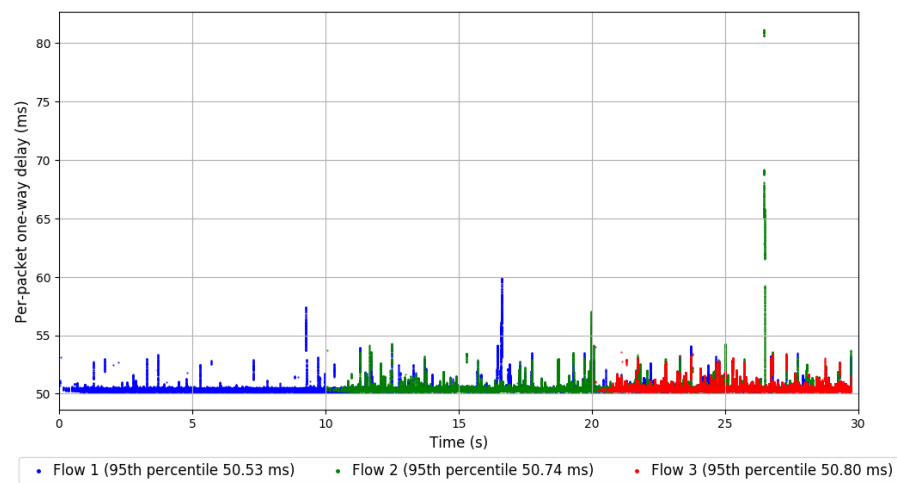
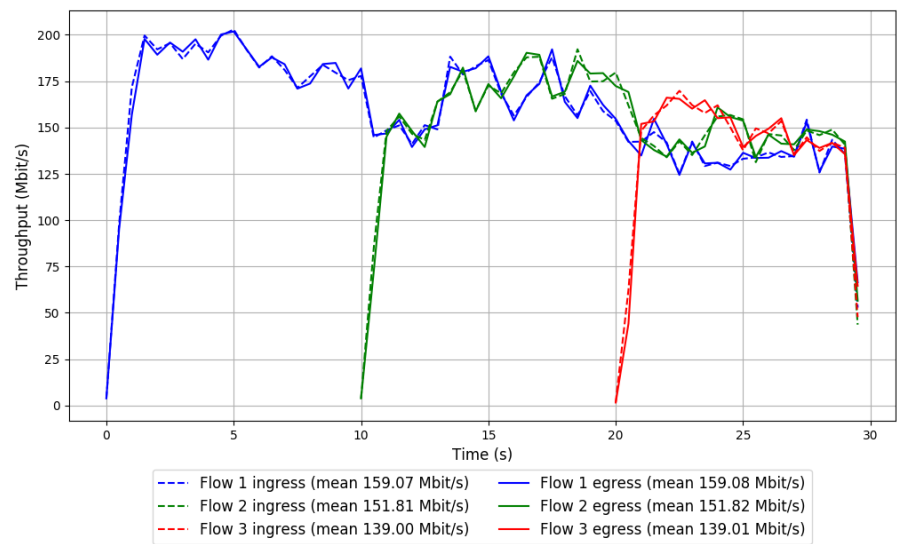
-- Flow 3:

Average throughput: 139.01 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-09-22 11:05:38

End at: 2017-09-22 11:06:08

Below is generated by plot.py at 2017-09-22 13:37:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 314.86 Mbit/s

95th percentile per-packet one-way delay: 50.668 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.18 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 162.85 Mbit/s

95th percentile per-packet one-way delay: 50.671 ms

Loss rate: 0.00%

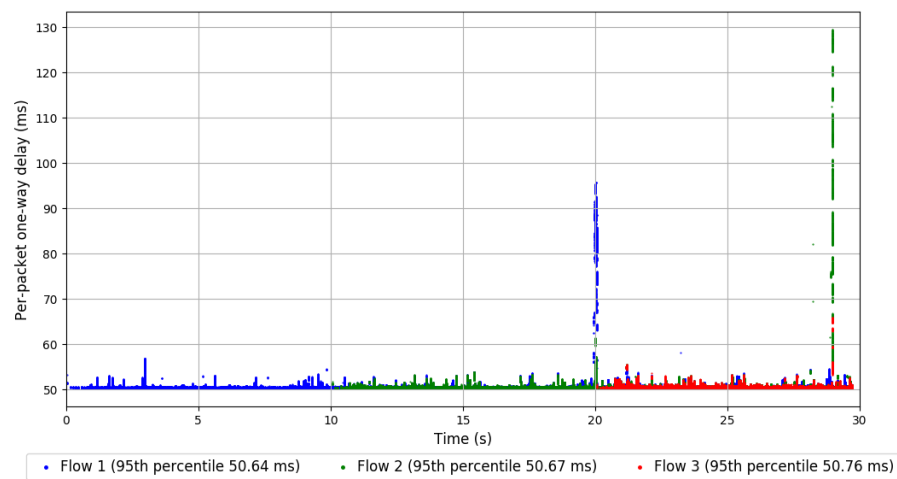
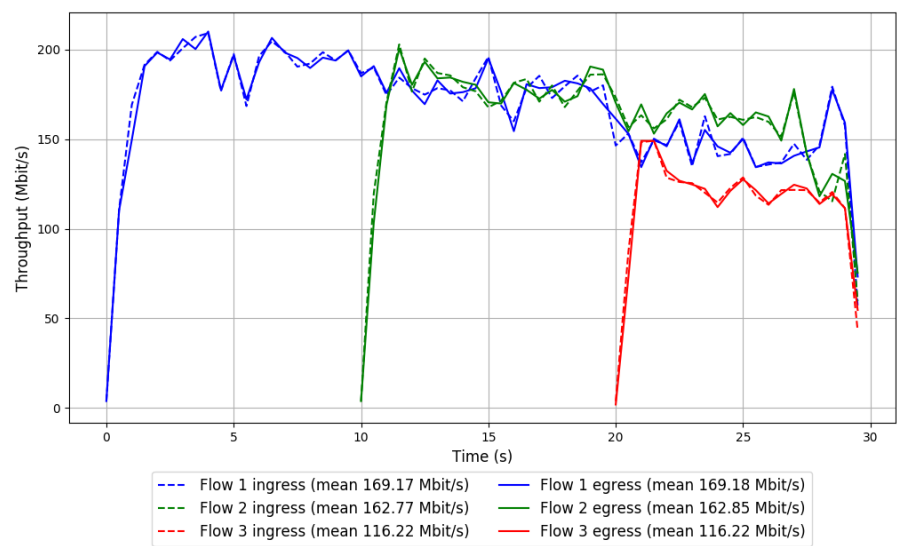
-- Flow 3:

Average throughput: 116.22 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-22 11:18:07

End at: 2017-09-22 11:18:37

Below is generated by plot.py at 2017-09-22 13:37:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.44 Mbit/s

95th percentile per-packet one-way delay: 50.985 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 169.36 Mbit/s

95th percentile per-packet one-way delay: 50.819 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.22 Mbit/s

95th percentile per-packet one-way delay: 51.151 ms

Loss rate: 0.00%

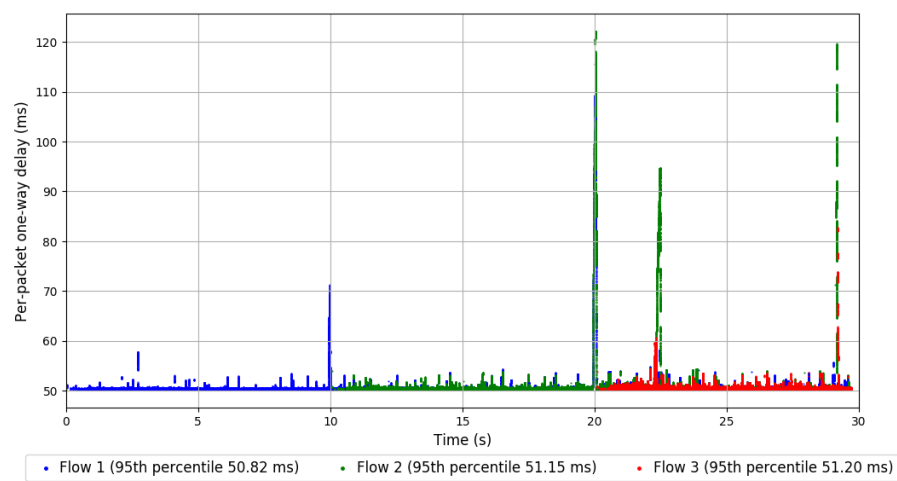
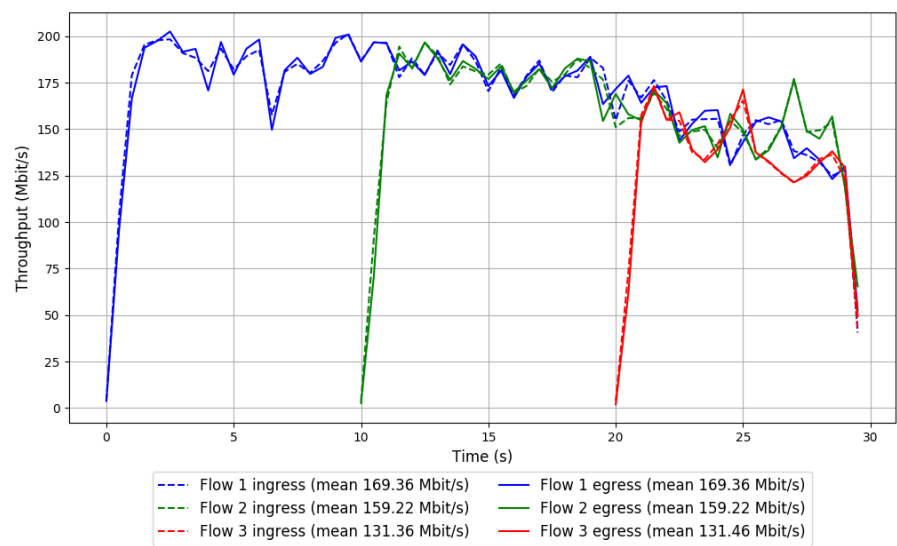
-- Flow 3:

Average throughput: 131.46 Mbit/s

95th percentile per-packet one-way delay: 51.195 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

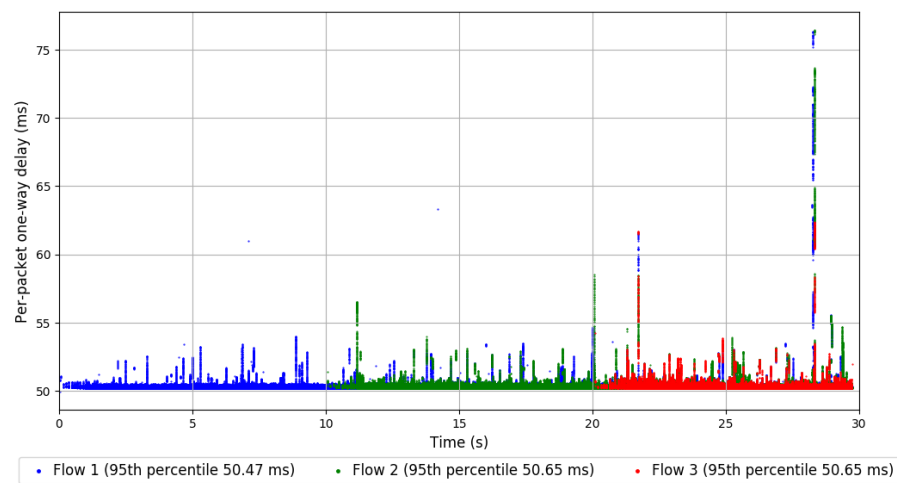
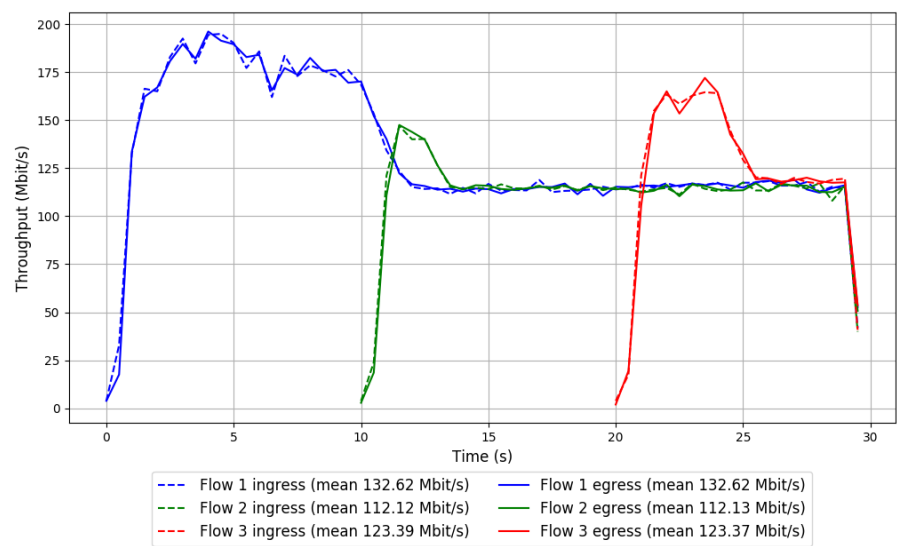


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-22 09:24:50
End at: 2017-09-22 09:25:20

# Below is generated by plot.py at 2017-09-22 13:37:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 246.90 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.62 Mbit/s
95th percentile per-packet one-way delay: 50.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 112.13 Mbit/s
95th percentile per-packet one-way delay: 50.651 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 123.37 Mbit/s
95th percentile per-packet one-way delay: 50.649 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo-calib — Data Link

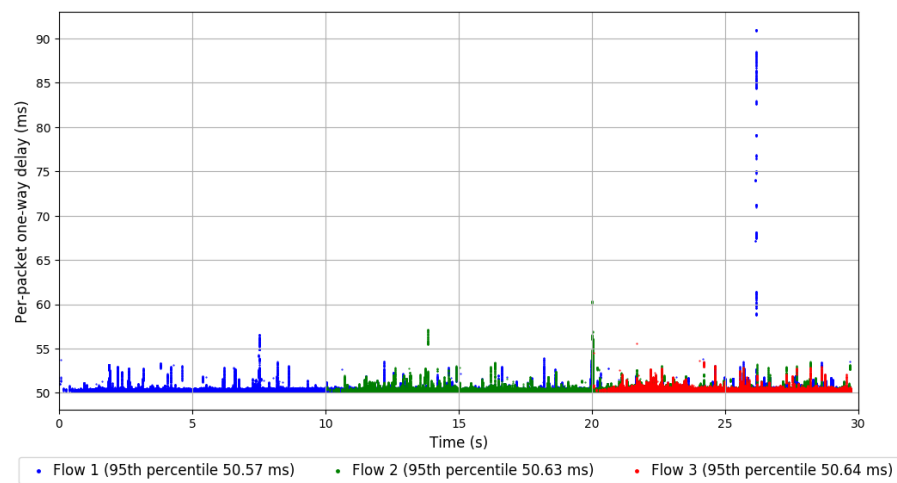
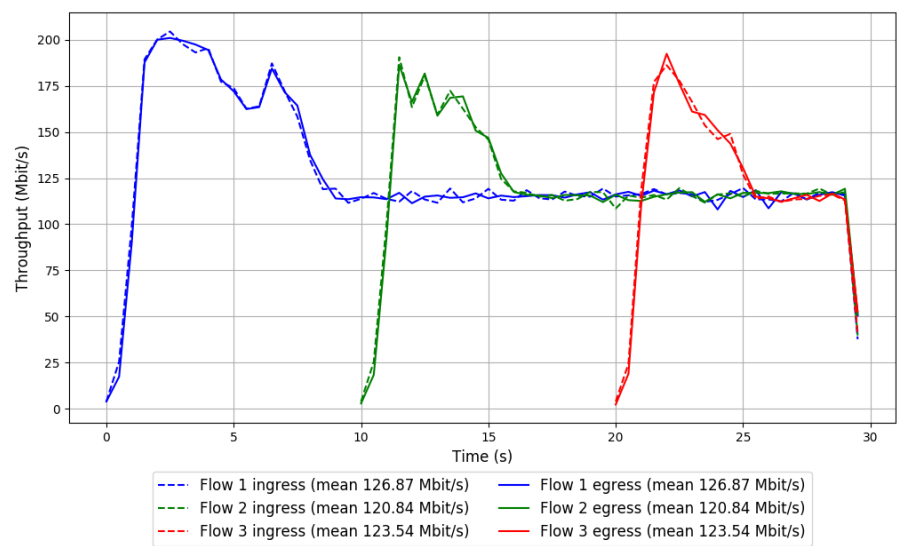


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-22 09:37:11
End at: 2017-09-22 09:37:41

# Below is generated by plot.py at 2017-09-22 13:38:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.05 Mbit/s
95th percentile per-packet one-way delay: 50.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 126.87 Mbit/s
95th percentile per-packet one-way delay: 50.573 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 120.84 Mbit/s
95th percentile per-packet one-way delay: 50.626 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 123.54 Mbit/s
95th percentile per-packet one-way delay: 50.638 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-22 09:49:42

End at: 2017-09-22 09:50:12

Below is generated by plot.py at 2017-09-22 13:40:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.81 Mbit/s

95th percentile per-packet one-way delay: 50.749 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.25 Mbit/s

95th percentile per-packet one-way delay: 50.635 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 156.94 Mbit/s

95th percentile per-packet one-way delay: 50.915 ms

Loss rate: 0.00%

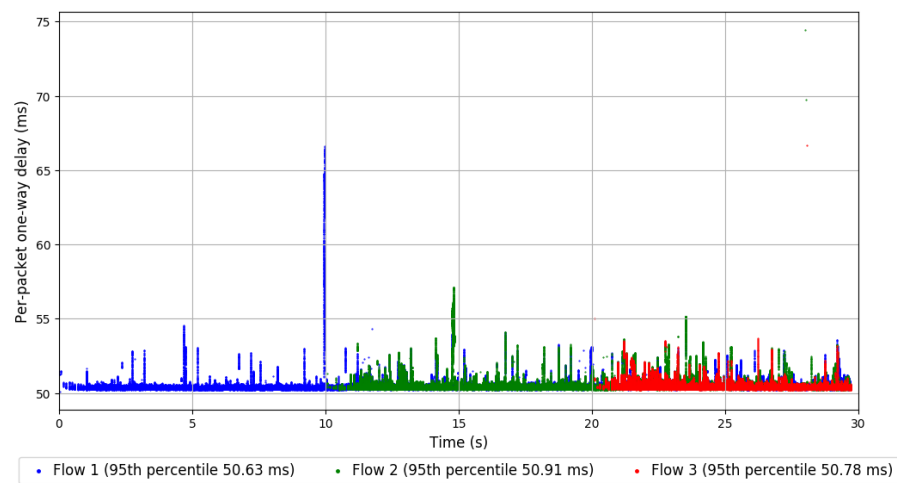
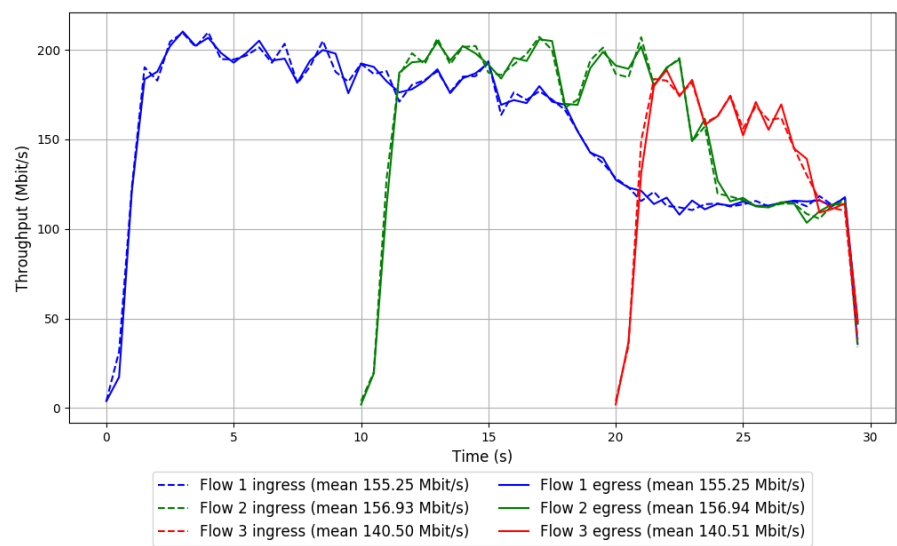
-- Flow 3:

Average throughput: 140.51 Mbit/s

95th percentile per-packet one-way delay: 50.779 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link

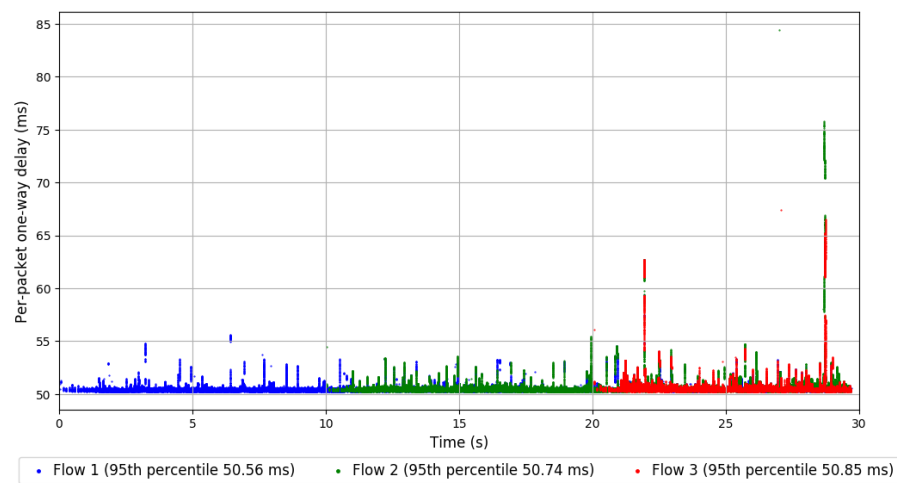
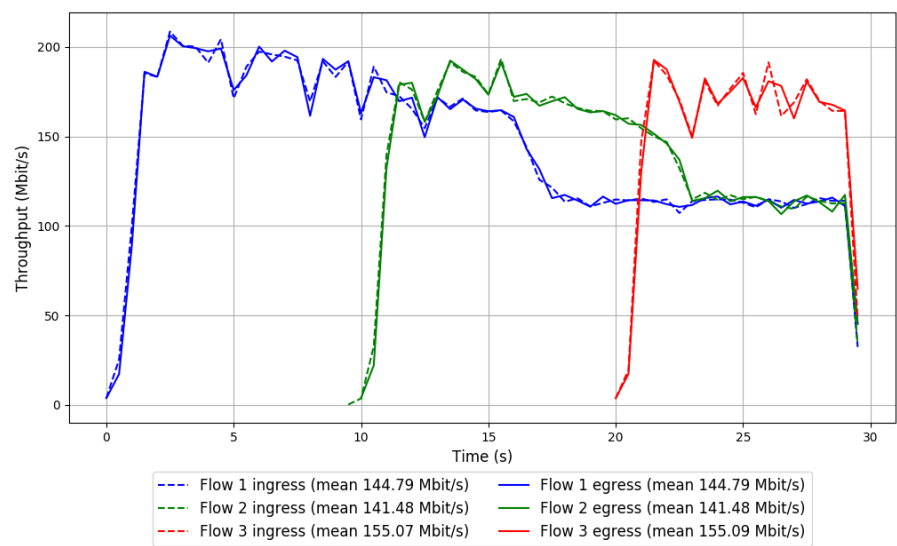


```
Run 4: Statistics of Indigo-calib

Start at: 2017-09-22 10:02:18
End at: 2017-09-22 10:02:48

# Below is generated by plot.py at 2017-09-22 13:41:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 289.00 Mbit/s
95th percentile per-packet one-way delay: 50.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.79 Mbit/s
95th percentile per-packet one-way delay: 50.558 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 141.48 Mbit/s
95th percentile per-packet one-way delay: 50.742 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 155.09 Mbit/s
95th percentile per-packet one-way delay: 50.851 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-22 10:14:50

End at: 2017-09-22 10:15:20

Below is generated by plot.py at 2017-09-22 13:42:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.61 Mbit/s

95th percentile per-packet one-way delay: 50.758 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 165.99 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.28 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.00%

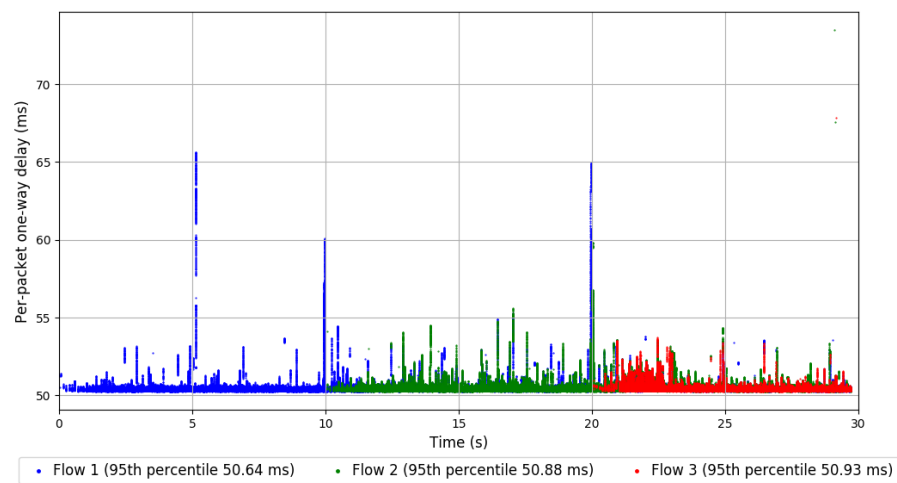
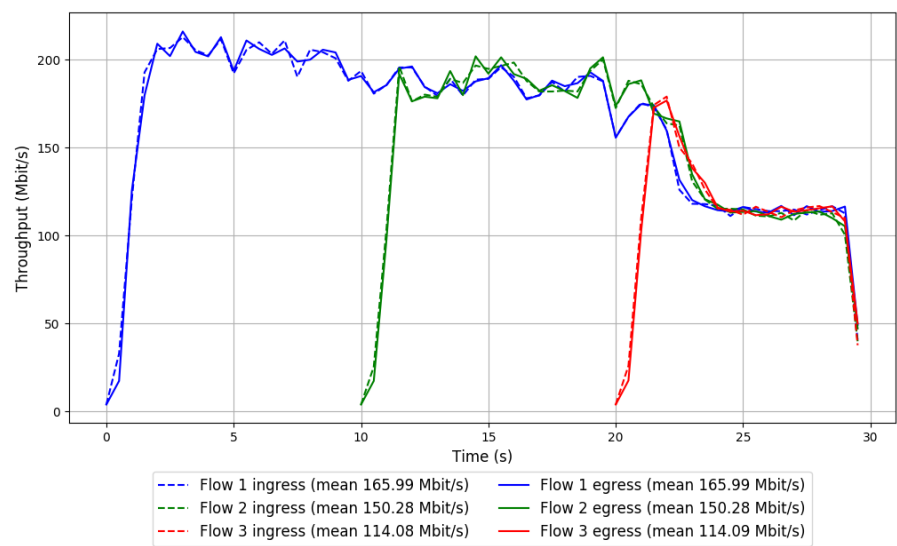
-- Flow 3:

Average throughput: 114.09 Mbit/s

95th percentile per-packet one-way delay: 50.932 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-22 10:27:29

End at: 2017-09-22 10:27:59

Below is generated by plot.py at 2017-09-22 13:42:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.58 Mbit/s

95th percentile per-packet one-way delay: 50.718 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 166.67 Mbit/s

95th percentile per-packet one-way delay: 50.533 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 156.62 Mbit/s

95th percentile per-packet one-way delay: 51.017 ms

Loss rate: 0.00%

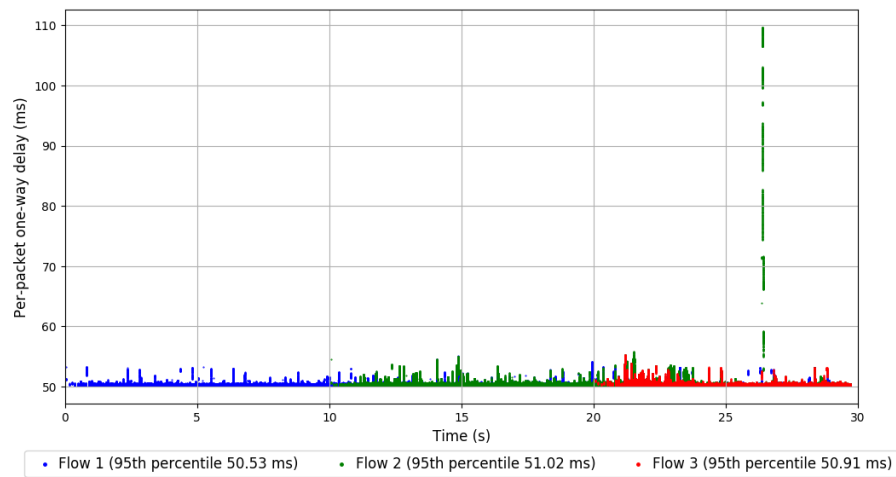
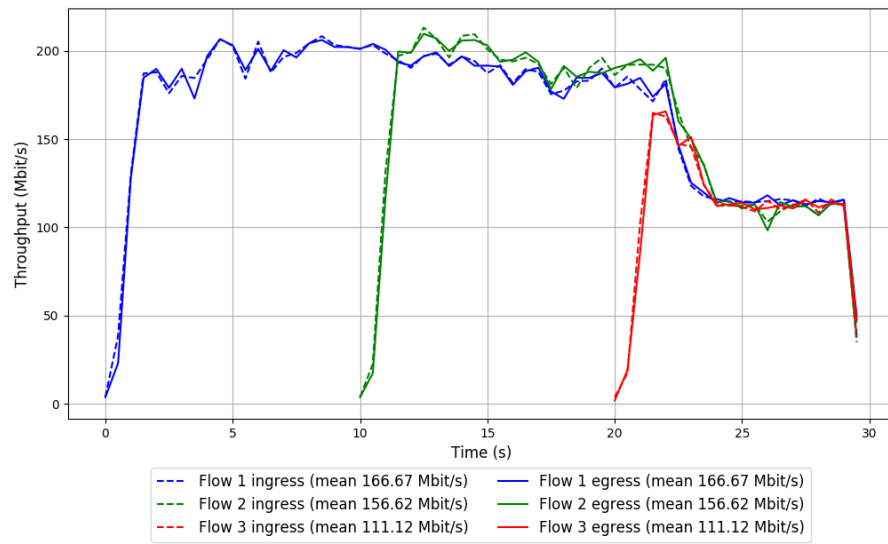
-- Flow 3:

Average throughput: 111.12 Mbit/s

95th percentile per-packet one-way delay: 50.906 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-09-22 10:39:51

End at: 2017-09-22 10:40:21

Below is generated by plot.py at 2017-09-22 13:42:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.33 Mbit/s

95th percentile per-packet one-way delay: 50.713 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.93 Mbit/s

95th percentile per-packet one-way delay: 50.522 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.58 Mbit/s

95th percentile per-packet one-way delay: 50.822 ms

Loss rate: 0.00%

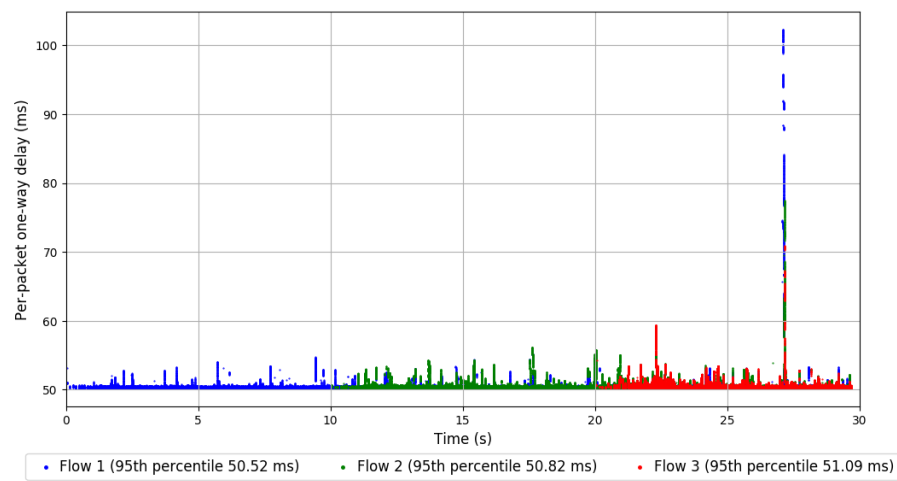
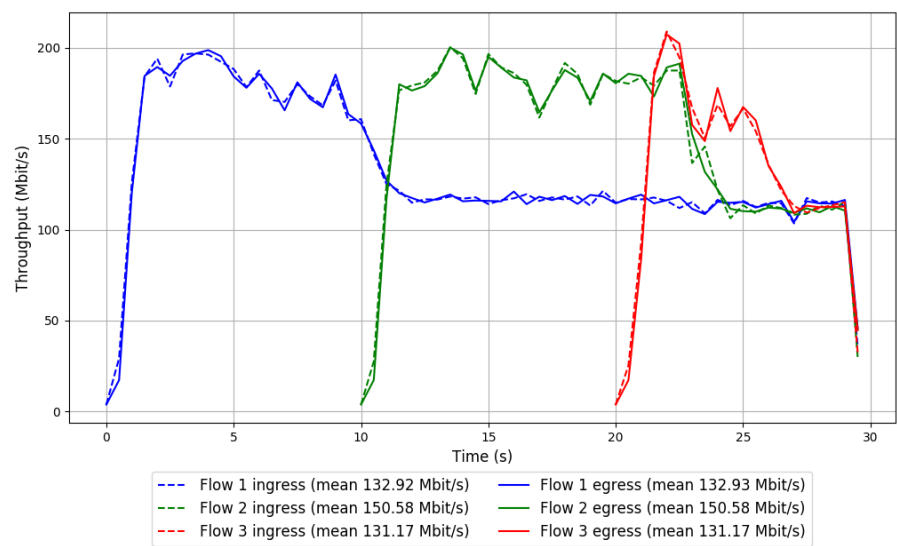
-- Flow 3:

Average throughput: 131.17 Mbit/s

95th percentile per-packet one-way delay: 51.085 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-09-22 10:52:10

End at: 2017-09-22 10:52:40

Below is generated by plot.py at 2017-09-22 13:42:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.64 Mbit/s

95th percentile per-packet one-way delay: 50.672 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 141.81 Mbit/s

95th percentile per-packet one-way delay: 50.534 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 154.77 Mbit/s

95th percentile per-packet one-way delay: 50.812 ms

Loss rate: 0.00%

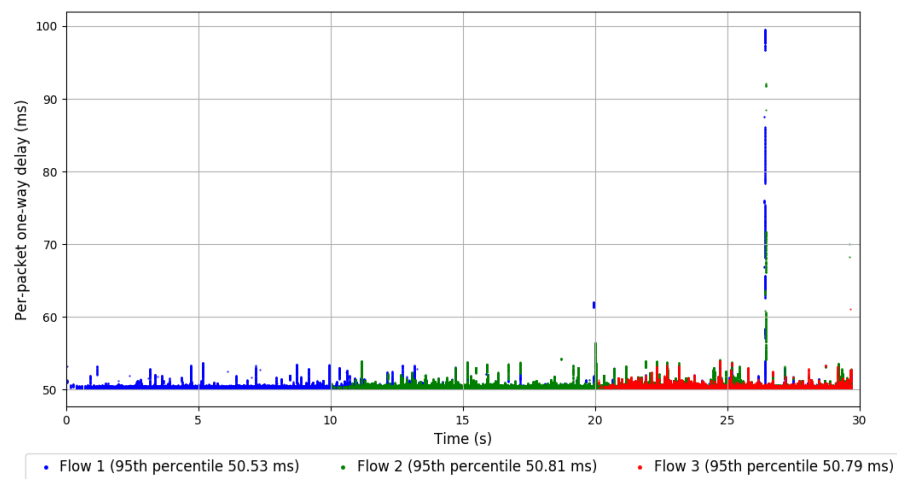
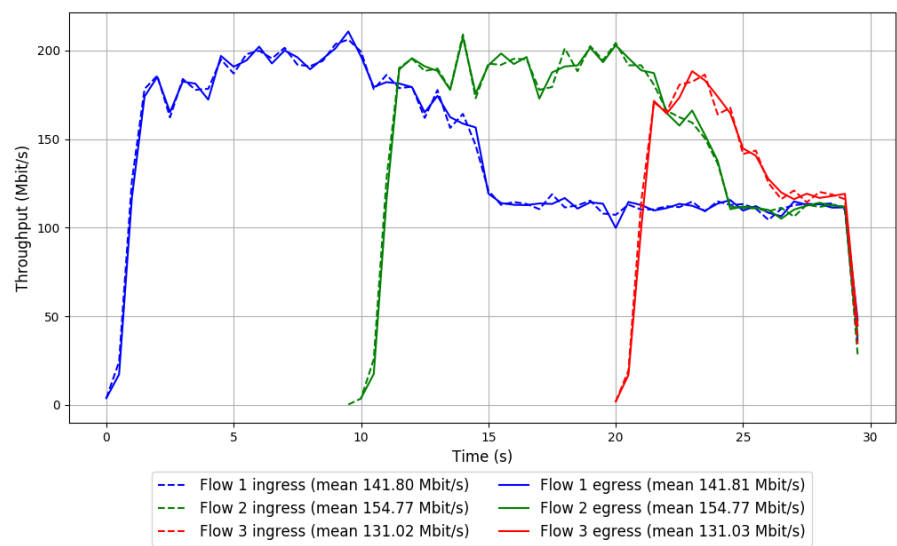
-- Flow 3:

Average throughput: 131.03 Mbit/s

95th percentile per-packet one-way delay: 50.791 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-09-22 11:04:37

End at: 2017-09-22 11:05:07

Below is generated by plot.py at 2017-09-22 13:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 284.53 Mbit/s

95th percentile per-packet one-way delay: 50.567 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 148.95 Mbit/s

95th percentile per-packet one-way delay: 50.548 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 143.37 Mbit/s

95th percentile per-packet one-way delay: 50.555 ms

Loss rate: 0.00%

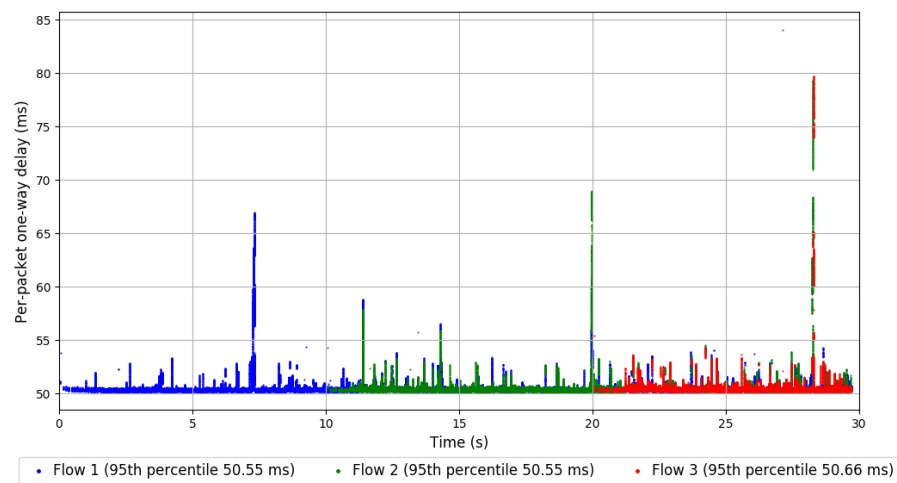
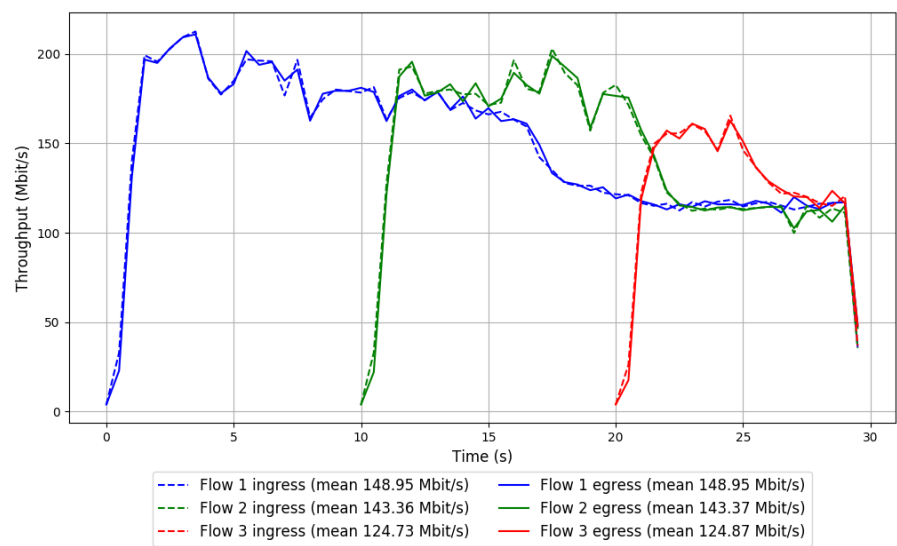
-- Flow 3:

Average throughput: 124.87 Mbit/s

95th percentile per-packet one-way delay: 50.656 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-22 11:17:04

End at: 2017-09-22 11:17:34

Below is generated by plot.py at 2017-09-22 13:43:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.99 Mbit/s

95th percentile per-packet one-way delay: 50.551 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 160.17 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 147.62 Mbit/s

95th percentile per-packet one-way delay: 50.575 ms

Loss rate: 0.00%

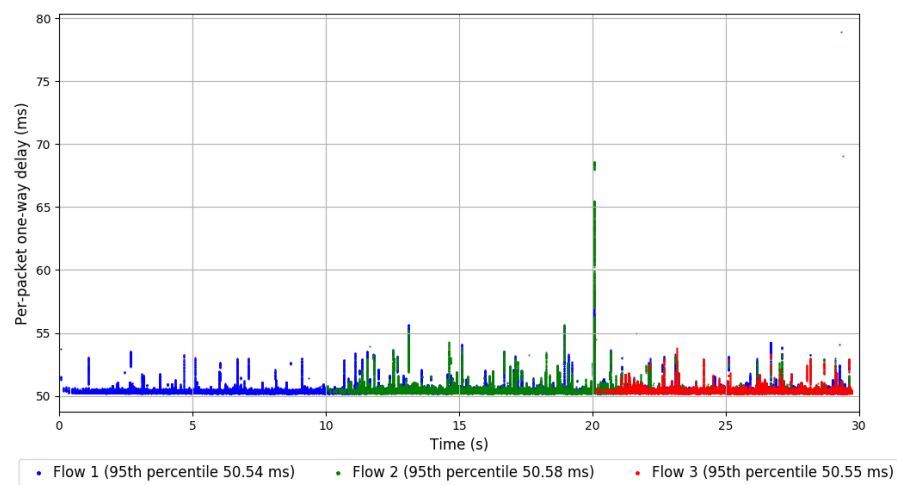
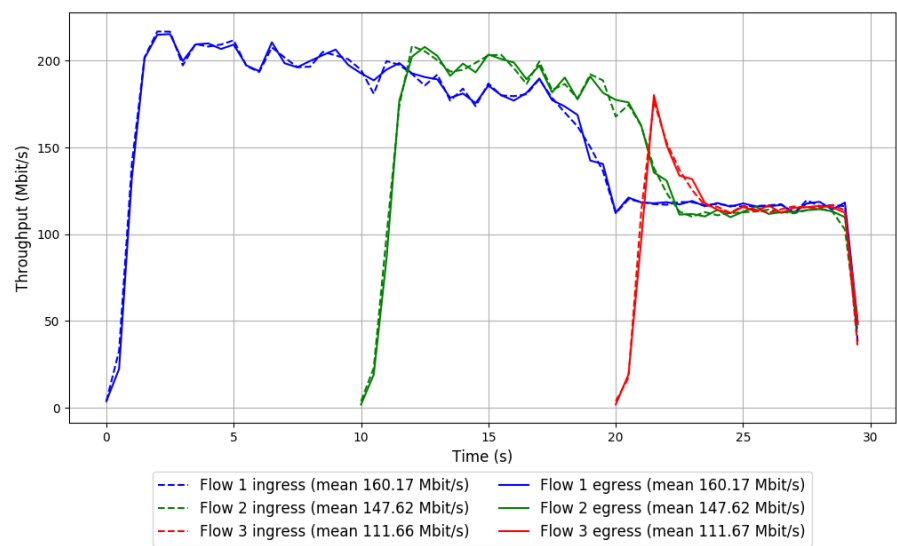
-- Flow 3:

Average throughput: 111.67 Mbit/s

95th percentile per-packet one-way delay: 50.552 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

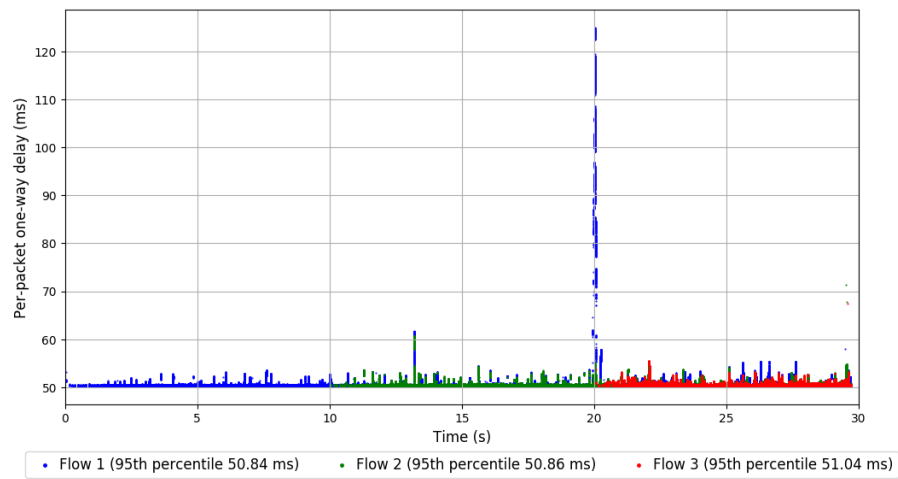
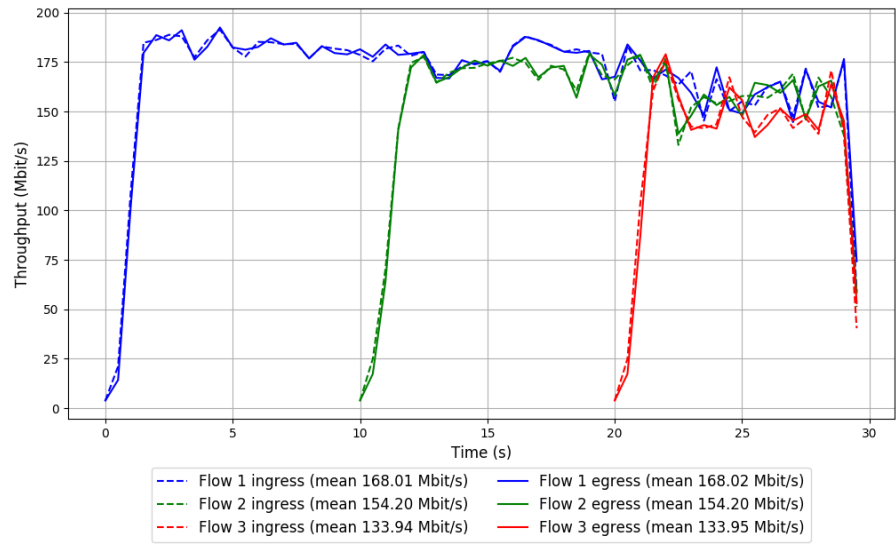


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-22 09:22:13
End at: 2017-09-22 09:22:43

# Below is generated by plot.py at 2017-09-22 13:46:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.76 Mbit/s
95th percentile per-packet one-way delay: 50.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 168.02 Mbit/s
95th percentile per-packet one-way delay: 50.840 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 154.20 Mbit/s
95th percentile per-packet one-way delay: 50.862 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.95 Mbit/s
95th percentile per-packet one-way delay: 51.040 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-delay — Data Link

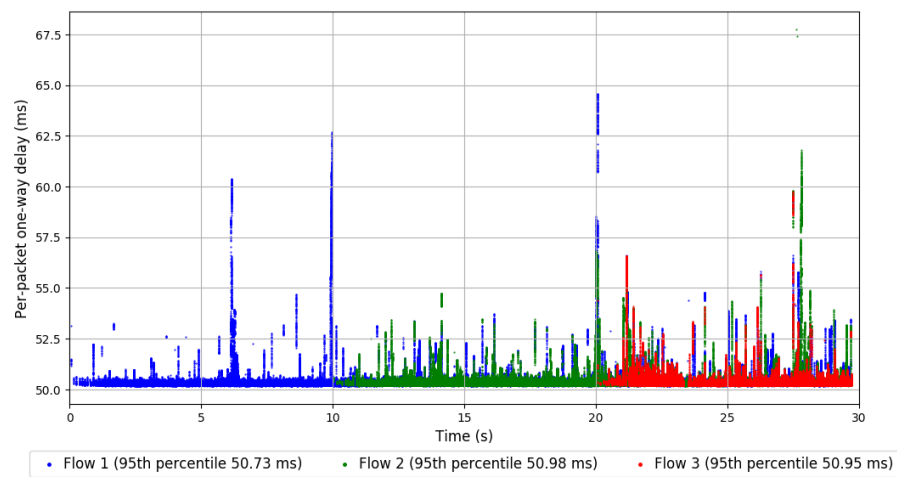
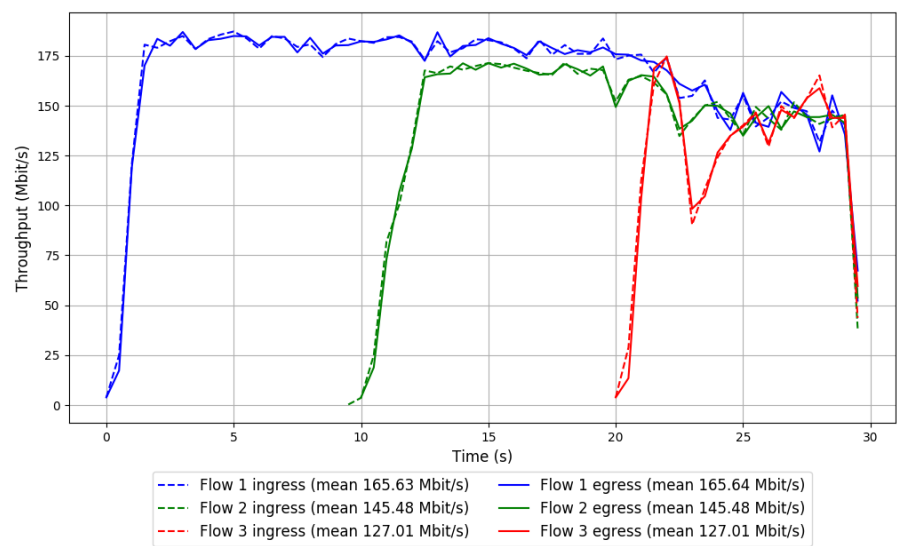


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-22 09:34:33
End at: 2017-09-22 09:35:03

# Below is generated by plot.py at 2017-09-22 13:46:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.37 Mbit/s
95th percentile per-packet one-way delay: 50.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 165.64 Mbit/s
95th percentile per-packet one-way delay: 50.735 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.48 Mbit/s
95th percentile per-packet one-way delay: 50.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.01 Mbit/s
95th percentile per-packet one-way delay: 50.951 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-delay — Data Link

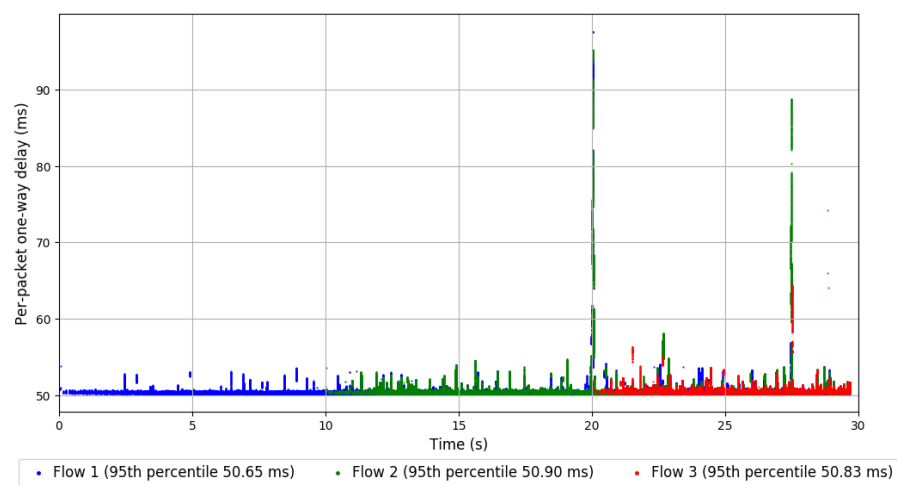
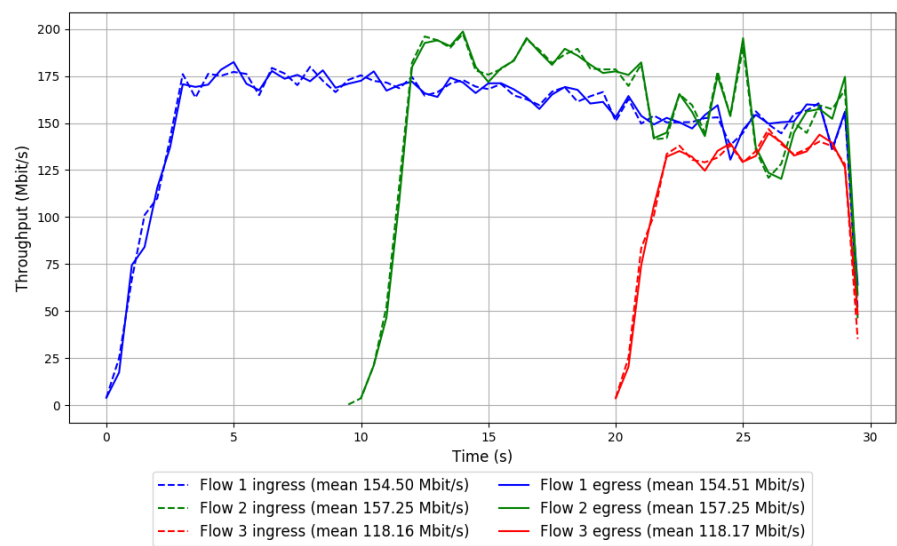


```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-22 09:47:06
End at: 2017-09-22 09:47:36

# Below is generated by plot.py at 2017-09-22 13:47:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.21 Mbit/s
95th percentile per-packet one-way delay: 50.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.51 Mbit/s
95th percentile per-packet one-way delay: 50.647 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 157.25 Mbit/s
95th percentile per-packet one-way delay: 50.901 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 118.17 Mbit/s
95th percentile per-packet one-way delay: 50.830 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-22 09:59:45

End at: 2017-09-22 10:00:15

Below is generated by plot.py at 2017-09-22 13:47:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 304.07 Mbit/s

95th percentile per-packet one-way delay: 50.842 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 162.70 Mbit/s

95th percentile per-packet one-way delay: 50.758 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 152.56 Mbit/s

95th percentile per-packet one-way delay: 50.936 ms

Loss rate: 0.00%

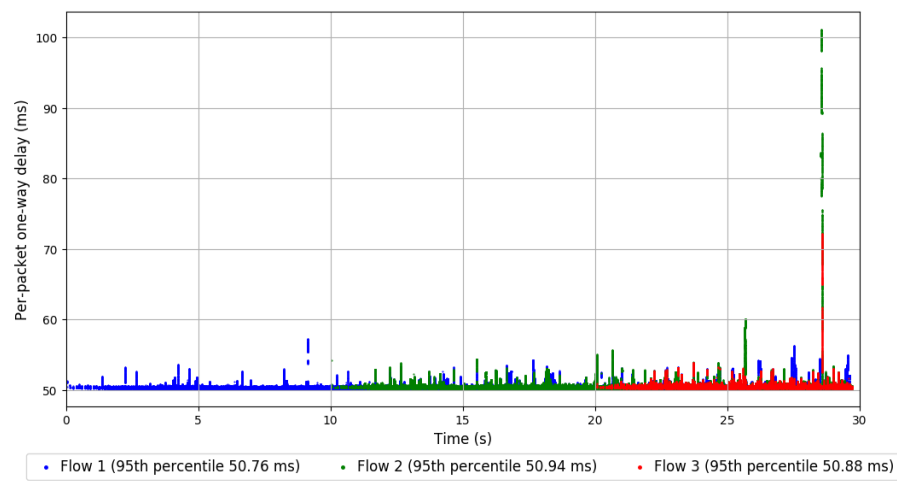
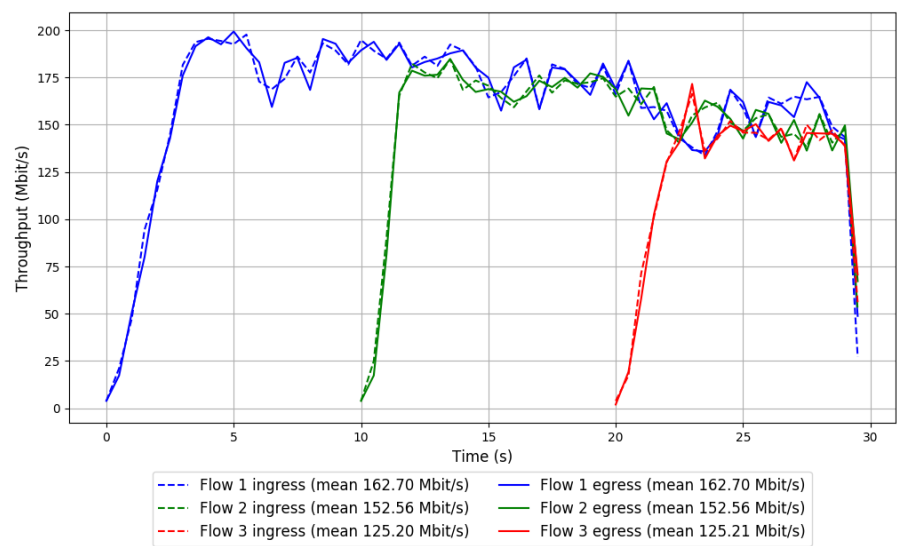
-- Flow 3:

Average throughput: 125.21 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.00%

Run 4: Report of Indigo-delay — Data Link

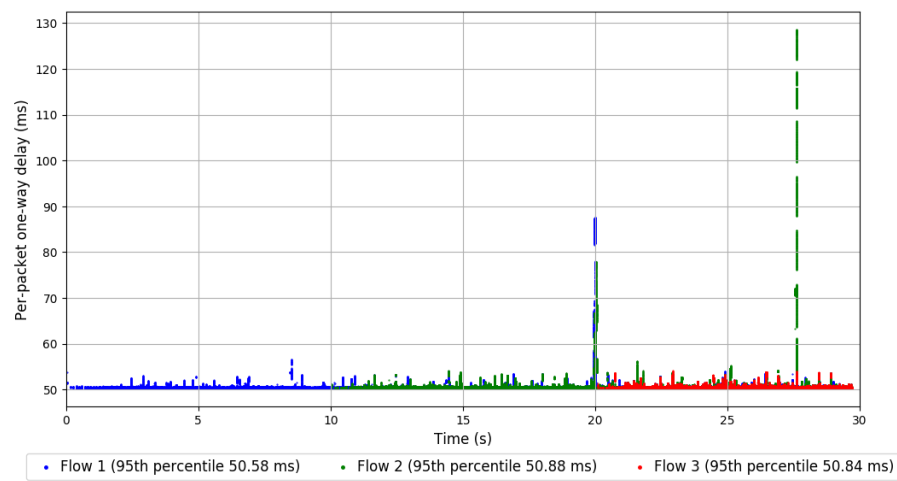
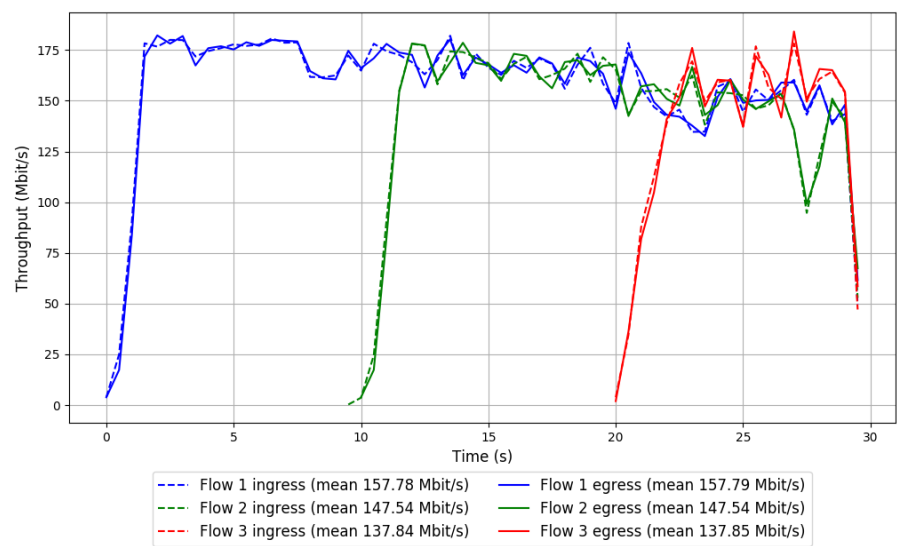


```
Run 5: Statistics of Indigo-delay

Start at: 2017-09-22 10:12:14
End at: 2017-09-22 10:12:44

# Below is generated by plot.py at 2017-09-22 13:47:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 300.29 Mbit/s
95th percentile per-packet one-way delay: 50.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.79 Mbit/s
95th percentile per-packet one-way delay: 50.581 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.54 Mbit/s
95th percentile per-packet one-way delay: 50.885 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 137.85 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-delay — Data Link

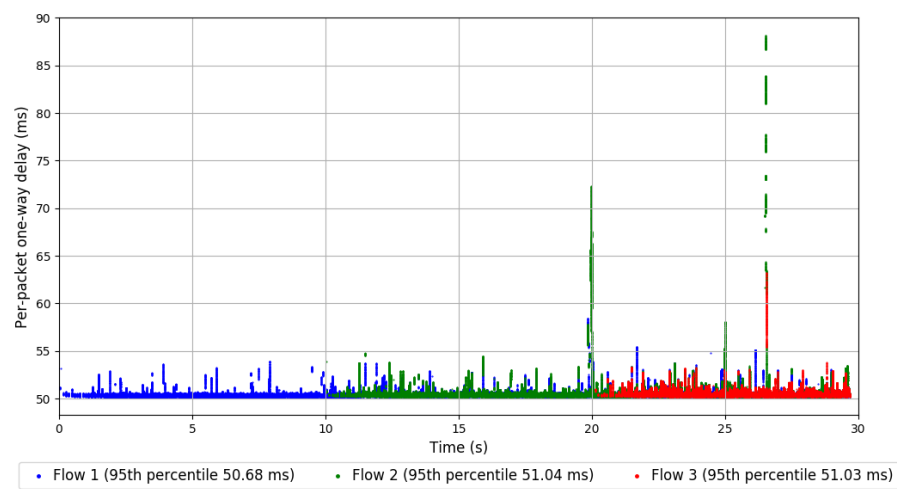
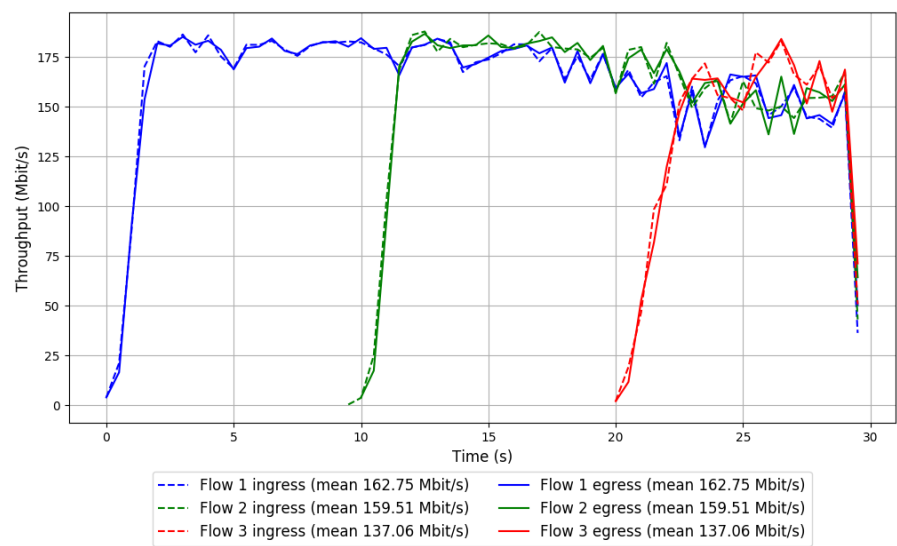


```
Run 6: Statistics of Indigo-delay

Start at: 2017-09-22 10:24:49
End at: 2017-09-22 10:25:19

# Below is generated by plot.py at 2017-09-22 13:48:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.75 Mbit/s
95th percentile per-packet one-way delay: 50.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 162.75 Mbit/s
95th percentile per-packet one-way delay: 50.683 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 159.51 Mbit/s
95th percentile per-packet one-way delay: 51.042 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 137.06 Mbit/s
95th percentile per-packet one-way delay: 51.026 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo-delay — Data Link

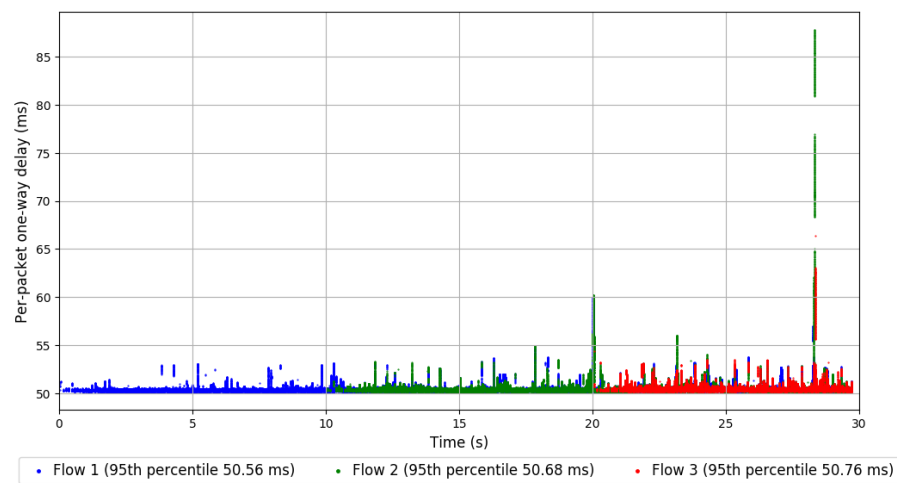
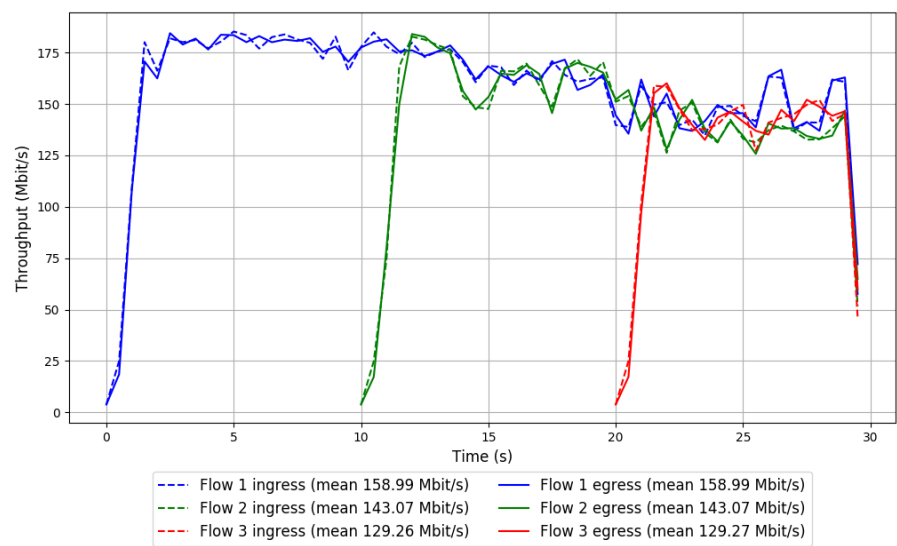


```
Run 7: Statistics of Indigo-delay

Start at: 2017-09-22 10:37:11
End at: 2017-09-22 10:37:41

# Below is generated by plot.py at 2017-09-22 13:48:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.83 Mbit/s
95th percentile per-packet one-way delay: 50.631 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 158.99 Mbit/s
95th percentile per-packet one-way delay: 50.561 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 143.07 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 129.27 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.00%
```


Run 7: Report of Indigo-delay — Data Link



Run 8: Statistics of Indigo-delay

Start at: 2017-09-22 10:49:30

End at: 2017-09-22 10:50:00

Below is generated by plot.py at 2017-09-22 13:48:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.50 Mbit/s

95th percentile per-packet one-way delay: 50.946 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.83 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 154.43 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.00%

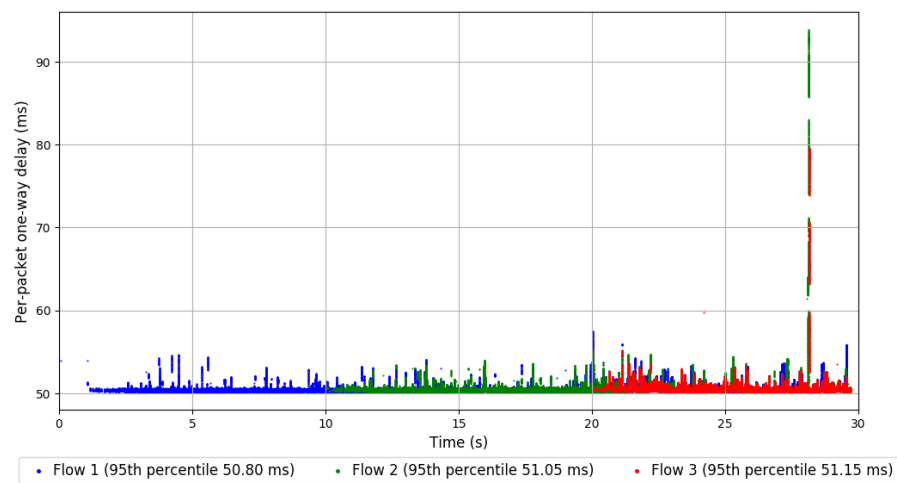
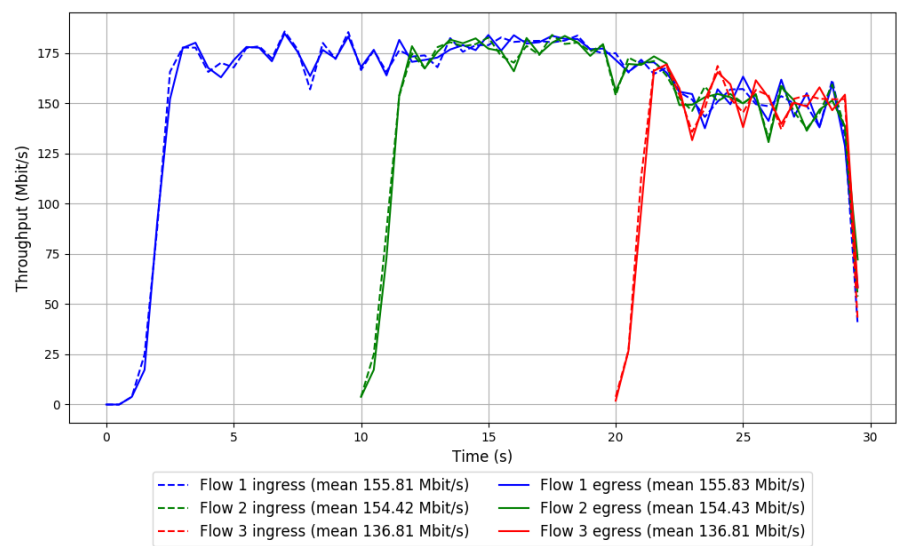
-- Flow 3:

Average throughput: 136.81 Mbit/s

95th percentile per-packet one-way delay: 51.146 ms

Loss rate: 0.00%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-22 11:01:59

End at: 2017-09-22 11:02:29

Below is generated by plot.py at 2017-09-22 13:48:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.15 Mbit/s

95th percentile per-packet one-way delay: 50.942 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 155.62 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 159.20 Mbit/s

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

Loss rate: 0.00%

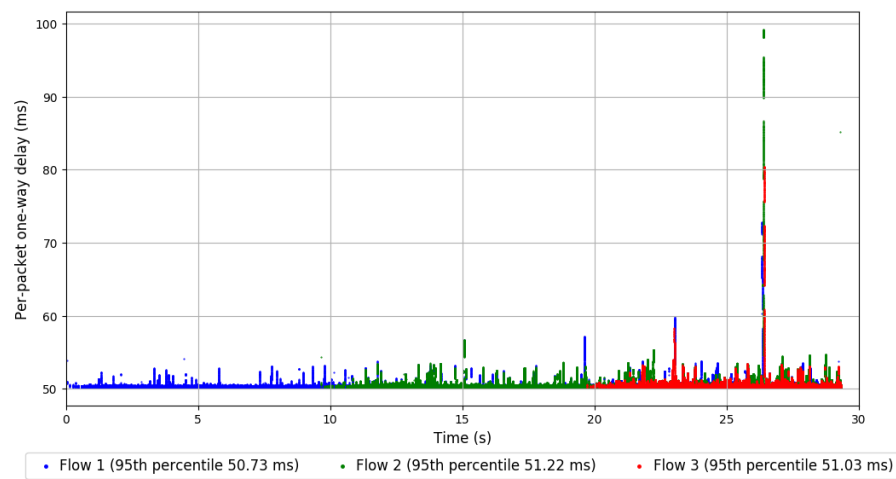
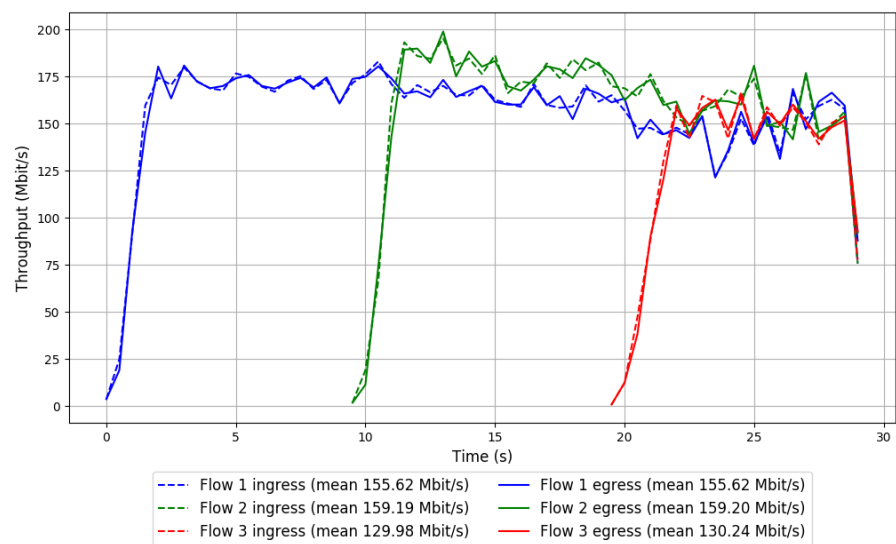
-- Flow 3:

Average throughput: 130.24 Mbit/s

95th percentile per-packet one-way delay: 51.029 ms

Loss rate: 0.00%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-22 11:14:26

End at: 2017-09-22 11:14:56

Below is generated by plot.py at 2017-09-22 13:48:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.67 Mbit/s

95th percentile per-packet one-way delay: 50.881 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 160.35 Mbit/s

95th percentile per-packet one-way delay: 50.768 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 157.91 Mbit/s

95th percentile per-packet one-way delay: 51.002 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 127.86 Mbit/s

95th percentile per-packet one-way delay: 50.945 ms

Loss rate: 0.00%

Run 10: Report of Indigo-delay — Data Link

