

Pantheon Report

Generated at 2018-06-19 12:36:10 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

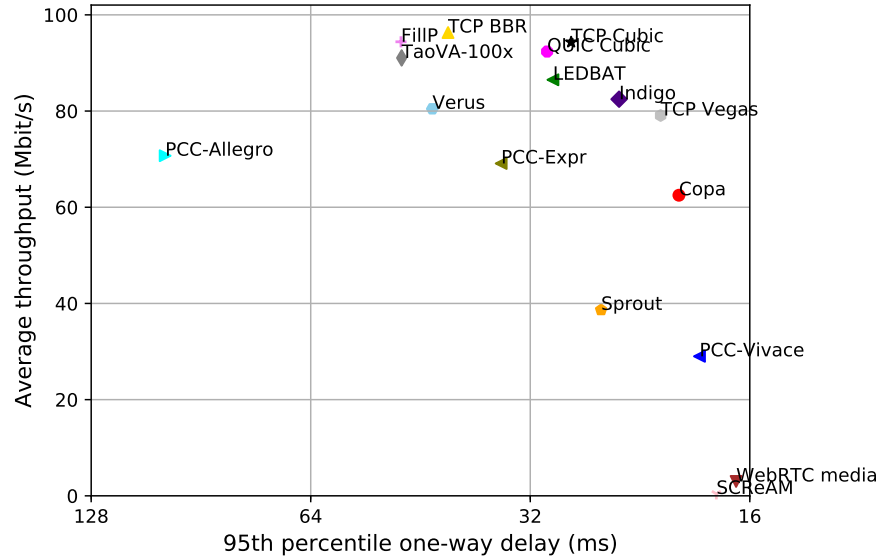
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

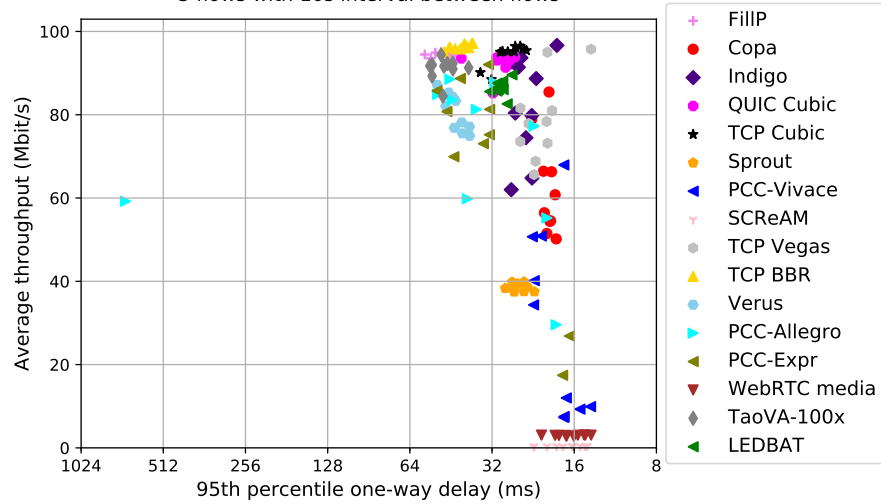
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from India to AWS India 1, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



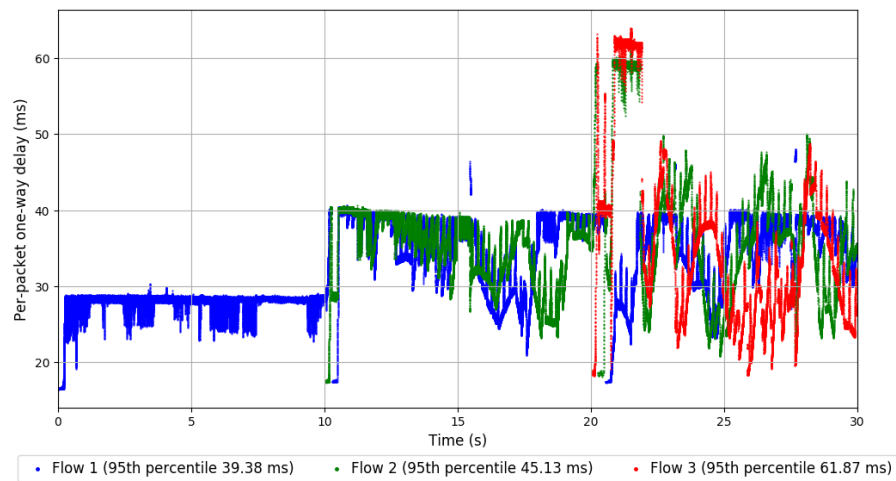
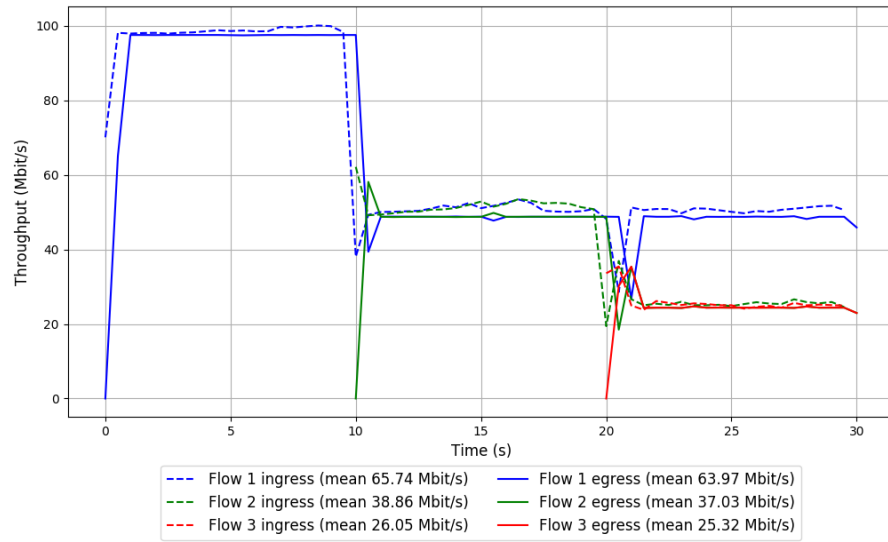
| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 10 | 59.84 | 40.01 | 29.77 | 39.45 | 43.06 | 55.37 | 2.88 | 4.82 | 4.64 |
| Copa | 10 | 35.32 | 27.99 | 25.62 | 19.54 | 20.36 | 20.68 | 0.07 | 0.11 | 0.29 |
| TCP Cubic | 10 | 58.06 | 37.48 | 34.18 | 27.56 | 29.28 | 30.13 | 0.08 | 0.14 | 0.37 |
| FillP | 10 | 57.39 | 40.92 | 29.62 | 47.33 | 43.68 | 48.14 | 1.52 | 3.32 | 3.78 |
| Indigo | 10 | 47.70 | 36.50 | 32.69 | 23.23 | 24.42 | 26.03 | 0.07 | 0.14 | 0.31 |
| LEDBAT | 10 | 51.26 | 38.92 | 28.20 | 28.79 | 30.73 | 31.90 | 0.08 | 0.18 | 0.40 |
| PCC-Allegro | 10 | 45.80 | 27.50 | 20.20 | 97.99 | 99.44 | 97.29 | 2.05 | 1.40 | 0.55 |
| PCC-Expr | 10 | 43.93 | 30.85 | 14.20 | 33.54 | 33.66 | 26.56 | 0.47 | 0.24 | 0.57 |
| QUIC Cubic | 10 | 55.11 | 40.66 | 31.02 | 29.70 | 31.05 | 40.55 | 0.10 | 0.21 | 0.51 |
| SCReAM | 10 | 0.19 | 0.20 | 0.21 | 17.78 | 17.78 | 17.78 | 0.09 | 0.19 | 0.27 |
| Sprout | 10 | 19.57 | 19.38 | 18.88 | 24.79 | 26.05 | 26.89 | 0.11 | 0.13 | 0.46 |
| TaoVA-100x | 10 | 55.10 | 40.45 | 27.22 | 43.48 | 43.51 | 49.71 | 0.29 | 0.49 | 1.52 |
| TCP Vegas | 10 | 45.68 | 34.26 | 31.97 | 21.12 | 21.22 | 21.61 | 0.06 | 0.12 | 0.27 |
| Verus | 10 | 48.70 | 34.89 | 26.73 | 42.41 | 43.16 | 49.66 | 0.13 | 0.17 | 0.50 |
| PCC-Vivace | 10 | 20.20 | 8.88 | 8.80 | 19.43 | 16.91 | 17.32 | 0.09 | 0.25 | 0.55 |
| WebRTC media | 10 | 1.61 | 0.96 | 0.42 | 16.67 | 16.65 | 16.95 | 0.03 | 0.19 | 0.38 |

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 09:06:22
End at: 2018-06-19 09:06:52
Local clock offset: -0.998 ms
Remote clock offset: -1.422 ms

Below is generated by plot.py at 2018-06-19 12:17:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 40.406 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 63.97 Mbit/s
95th percentile per-packet one-way delay: 39.376 ms
Loss rate: 2.79%
-- Flow 2:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 45.130 ms
Loss rate: 4.86%
-- Flow 3:
Average throughput: 25.32 Mbit/s
95th percentile per-packet one-way delay: 61.869 ms
Loss rate: 3.10%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-19 09:25:08

End at: 2018-06-19 09:25:38

Local clock offset: -0.205 ms

Remote clock offset: -4.46 ms

Below is generated by plot.py at 2018-06-19 12:17:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.69 Mbit/s

95th percentile per-packet one-way delay: 39.950 ms

Loss rate: 3.72%

-- Flow 1:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 38.723 ms

Loss rate: 2.89%

-- Flow 2:

Average throughput: 48.39 Mbit/s

95th percentile per-packet one-way delay: 38.604 ms

Loss rate: 4.83%

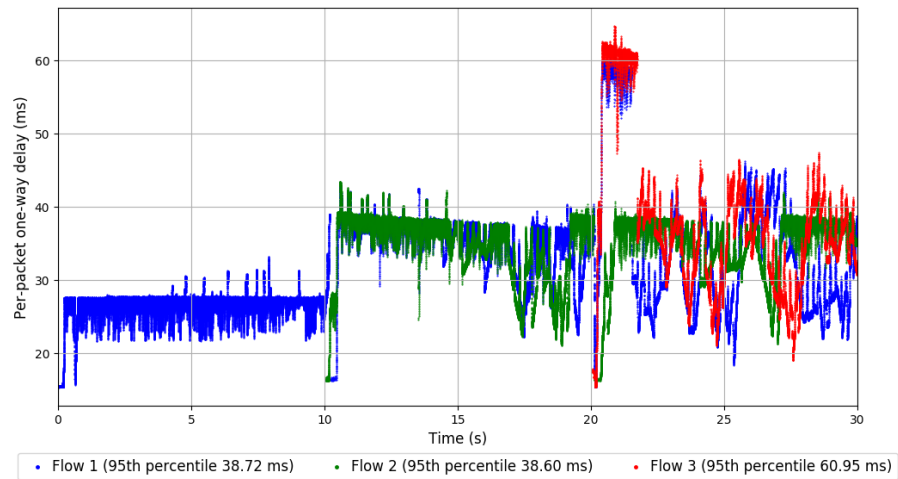
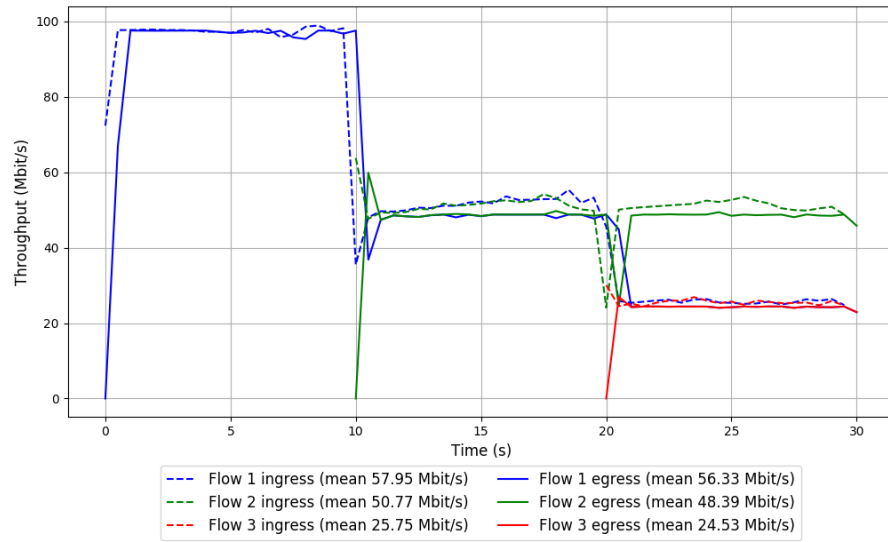
-- Flow 3:

Average throughput: 24.53 Mbit/s

95th percentile per-packet one-way delay: 60.948 ms

Loss rate: 4.99%

Run 2: Report of TCP BBR — Data Link

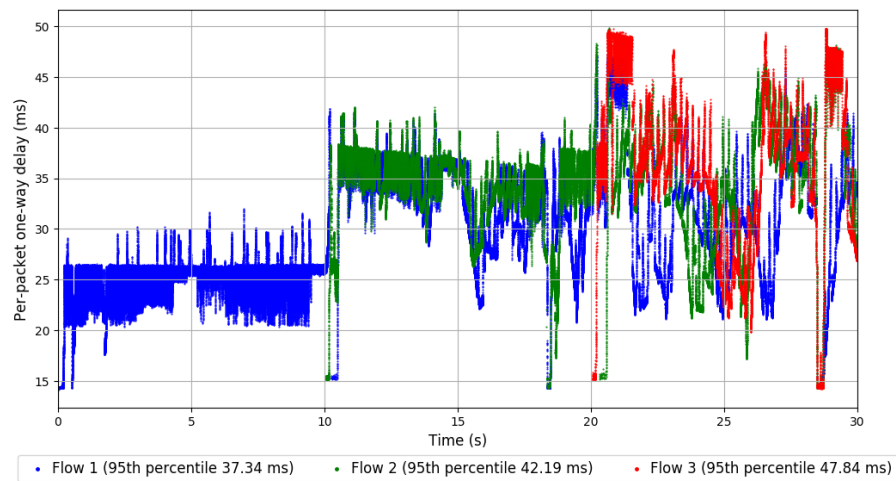
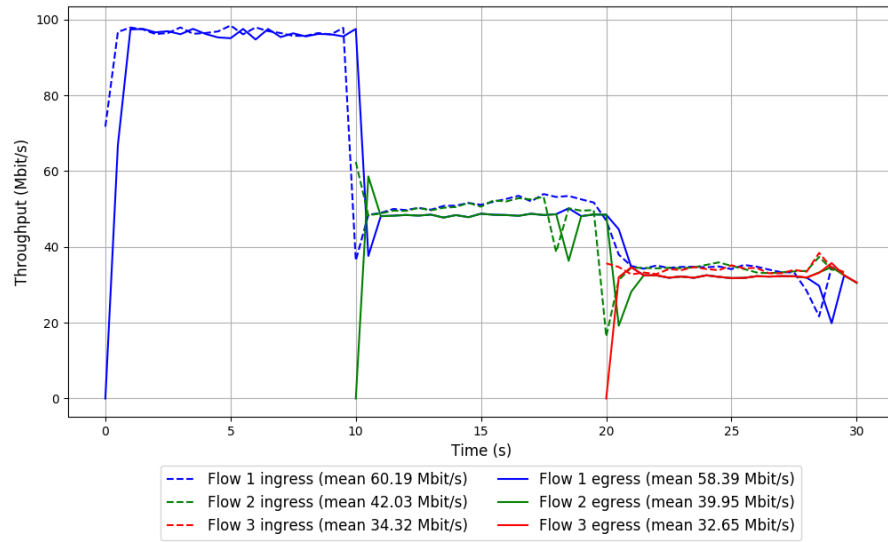


Run 3: Statistics of TCP BBR

Start at: 2018-06-19 09:44:09
End at: 2018-06-19 09:44:39
Local clock offset: -1.282 ms
Remote clock offset: -5.986 ms

Below is generated by plot.py at 2018-06-19 12:17:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 41.816 ms
Loss rate: 3.88%
-- Flow 1:
Average throughput: 58.39 Mbit/s
95th percentile per-packet one-way delay: 37.342 ms
Loss rate: 3.09%
-- Flow 2:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 42.190 ms
Loss rate: 5.09%
-- Flow 3:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 47.844 ms
Loss rate: 5.12%

Run 3: Report of TCP BBR — Data Link

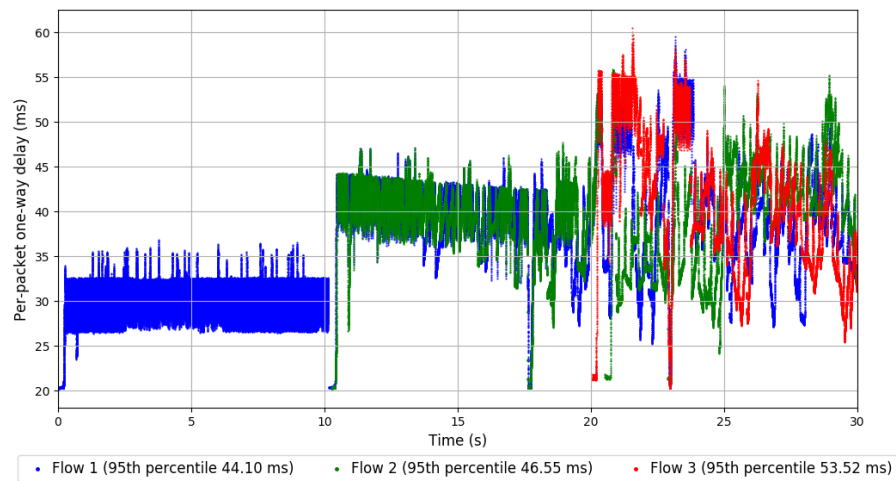
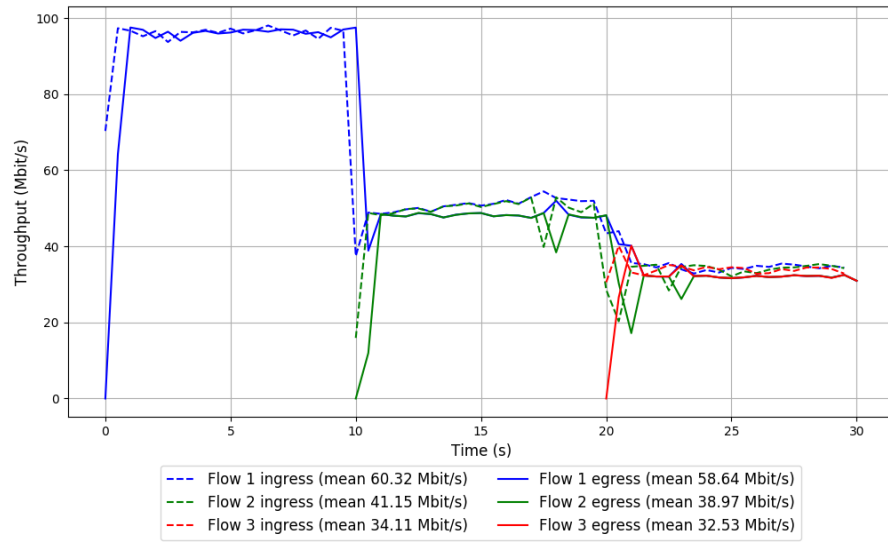


Run 4: Statistics of TCP BBR

Start at: 2018-06-19 10:03:21
End at: 2018-06-19 10:03:51
Local clock offset: 1.037 ms
Remote clock offset: -4.908 ms

Below is generated by plot.py at 2018-06-19 12:17:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 47.902 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 58.64 Mbit/s
95th percentile per-packet one-way delay: 44.099 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 46.546 ms
Loss rate: 5.45%
-- Flow 3:
Average throughput: 32.53 Mbit/s
95th percentile per-packet one-way delay: 53.515 ms
Loss rate: 4.93%

Run 4: Report of TCP BBR — Data Link

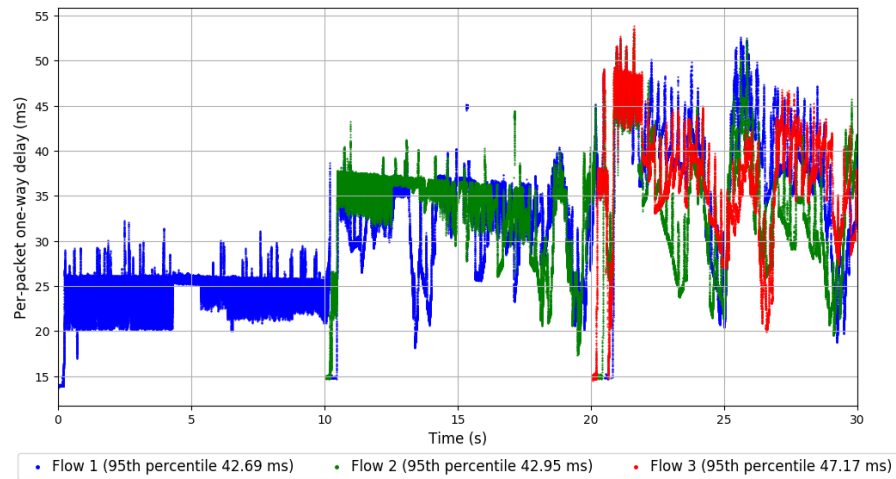
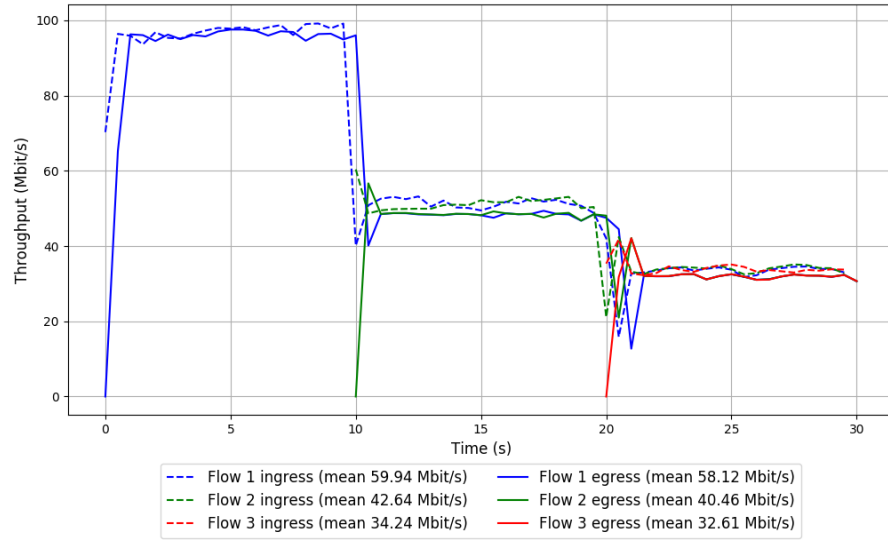


Run 5: Statistics of TCP BBR

Start at: 2018-06-19 10:22:43
End at: 2018-06-19 10:23:13
Local clock offset: -3.571 ms
Remote clock offset: -2.345 ms

Below is generated by plot.py at 2018-06-19 12:17:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 43.702 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 42.687 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 42.946 ms
Loss rate: 5.26%
-- Flow 3:
Average throughput: 32.61 Mbit/s
95th percentile per-packet one-way delay: 47.168 ms
Loss rate: 5.06%

Run 5: Report of TCP BBR — Data Link

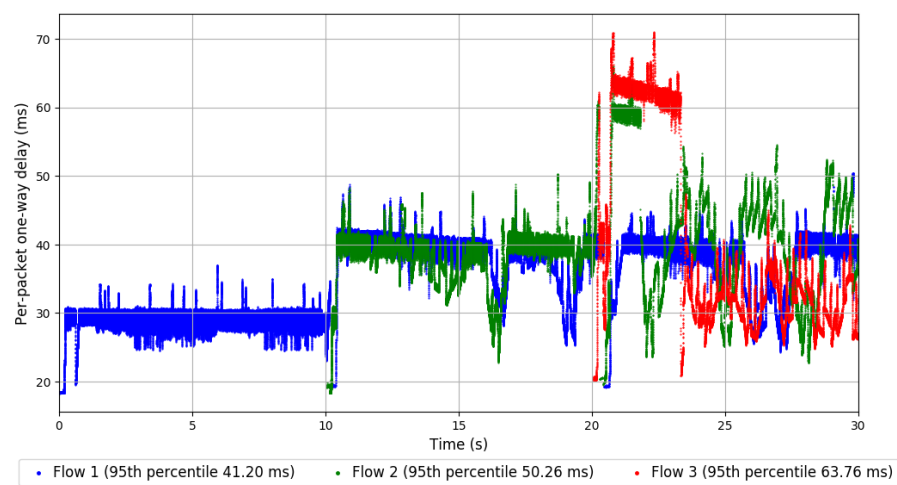
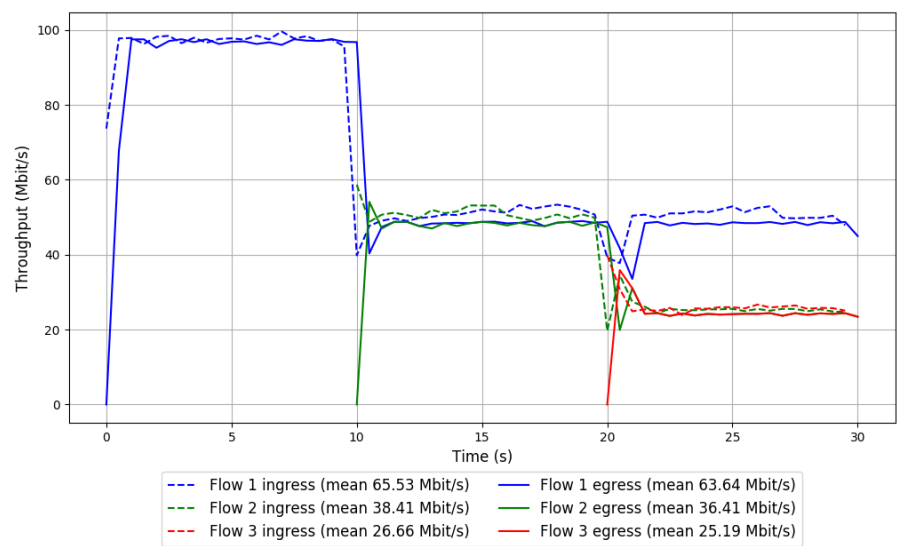


Run 6: Statistics of TCP BBR

Start at: 2018-06-19 10:41:50
End at: 2018-06-19 10:42:20
Local clock offset: 1.702 ms
Remote clock offset: -6.455 ms

Below is generated by plot.py at 2018-06-19 12:17:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 45.744 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 63.64 Mbit/s
95th percentile per-packet one-way delay: 41.198 ms
Loss rate: 2.97%
-- Flow 2:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 50.259 ms
Loss rate: 5.35%
-- Flow 3:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 63.758 ms
Loss rate: 5.81%

Run 6: Report of TCP BBR — Data Link

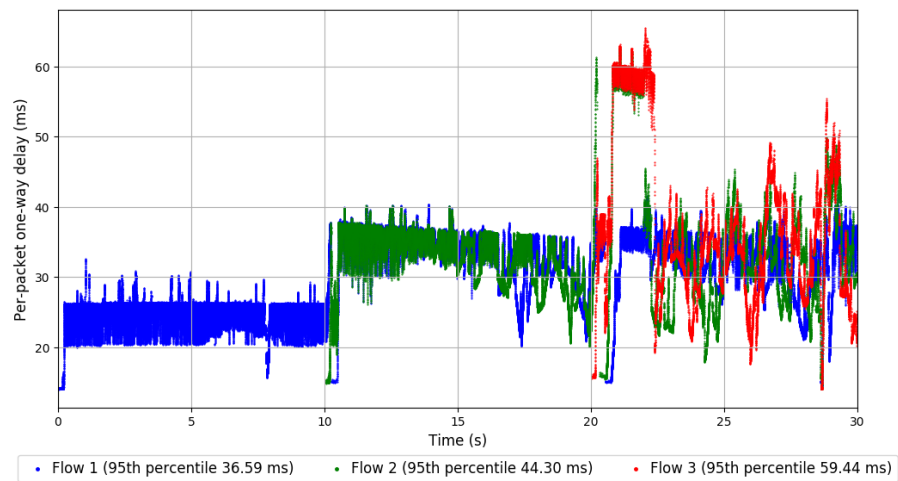
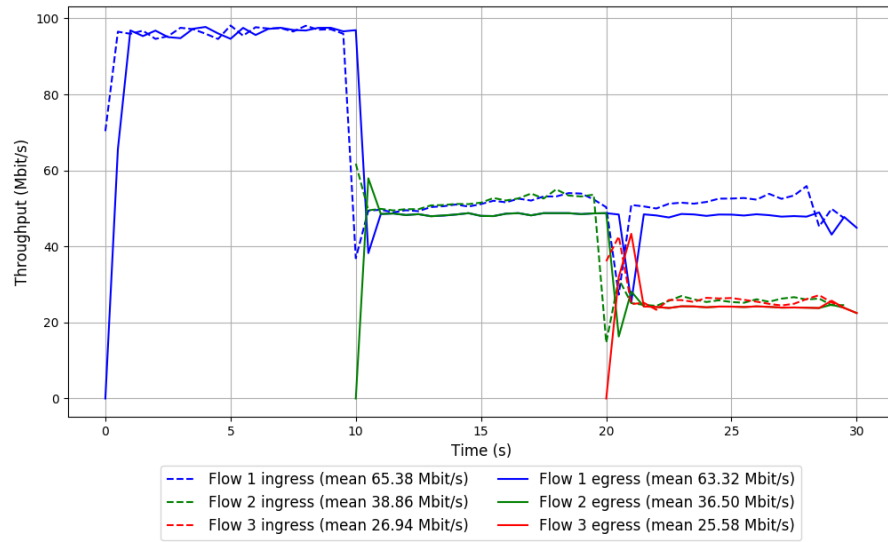


Run 7: Statistics of TCP BBR

Start at: 2018-06-19 11:01:12
End at: 2018-06-19 11:01:42
Local clock offset: 1.961 ms
Remote clock offset: -4.422 ms

Below is generated by plot.py at 2018-06-19 12:17:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 38.972 ms
Loss rate: 4.21%
-- Flow 1:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 36.594 ms
Loss rate: 3.27%
-- Flow 2:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 44.296 ms
Loss rate: 6.21%
-- Flow 3:
Average throughput: 25.58 Mbit/s
95th percentile per-packet one-way delay: 59.443 ms
Loss rate: 5.32%

Run 7: Report of TCP BBR — Data Link

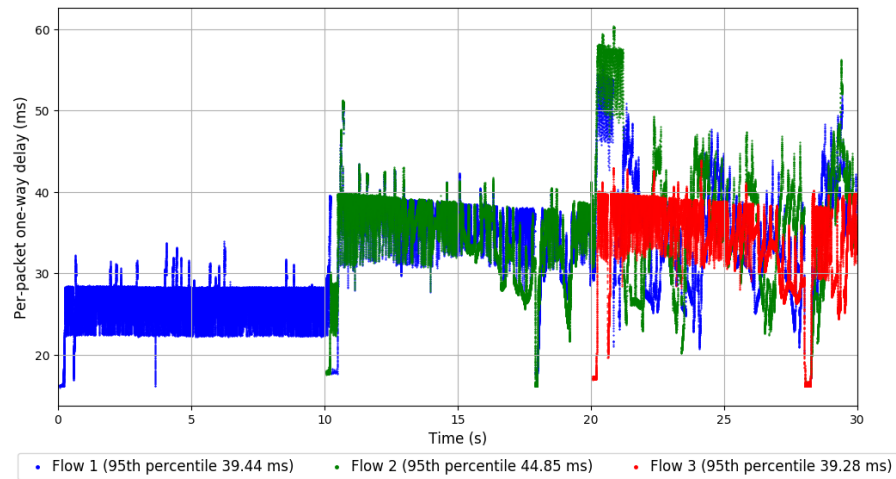
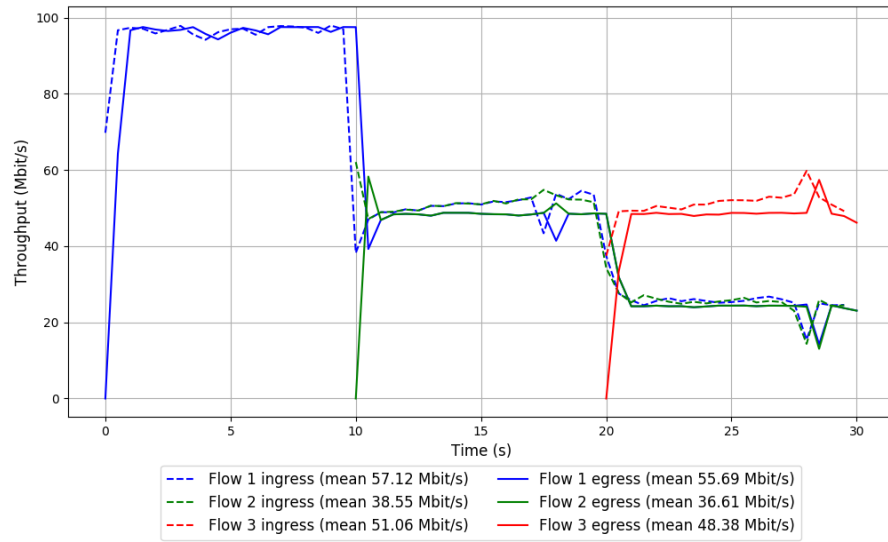


Run 8: Statistics of TCP BBR

Start at: 2018-06-19 11:20:21
End at: 2018-06-19 11:20:51
Local clock offset: -0.36 ms
Remote clock offset: -5.047 ms

Below is generated by plot.py at 2018-06-19 12:17:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 40.785 ms
Loss rate: 3.74%
-- Flow 1:
Average throughput: 55.69 Mbit/s
95th percentile per-packet one-way delay: 39.444 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 44.855 ms
Loss rate: 5.15%
-- Flow 3:
Average throughput: 48.38 Mbit/s
95th percentile per-packet one-way delay: 39.279 ms
Loss rate: 5.51%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-19 11:39:20

End at: 2018-06-19 11:39:50

Local clock offset: 1.73 ms

Remote clock offset: 0.841 ms

Below is generated by plot.py at 2018-06-19 12:19:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.15 Mbit/s

95th percentile per-packet one-way delay: 37.674 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 63.91 Mbit/s

95th percentile per-packet one-way delay: 37.509 ms

Loss rate: 2.85%

-- Flow 2:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 38.004 ms

Loss rate: 2.67%

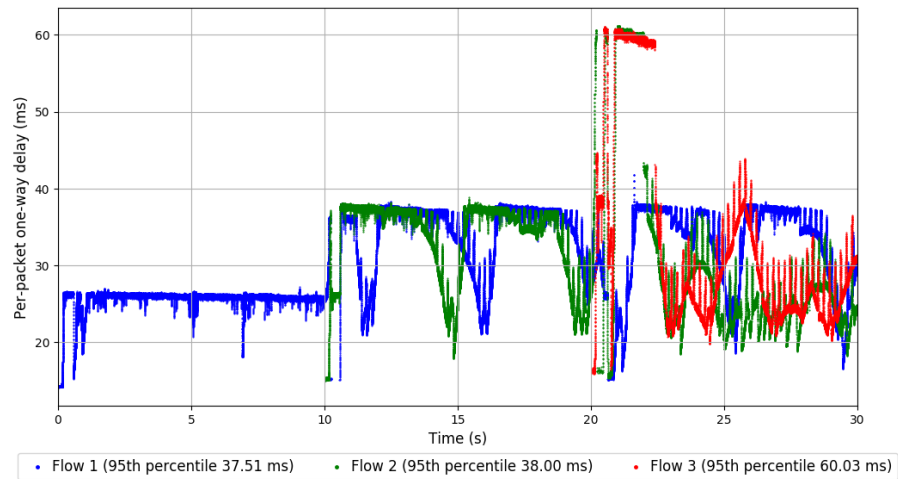
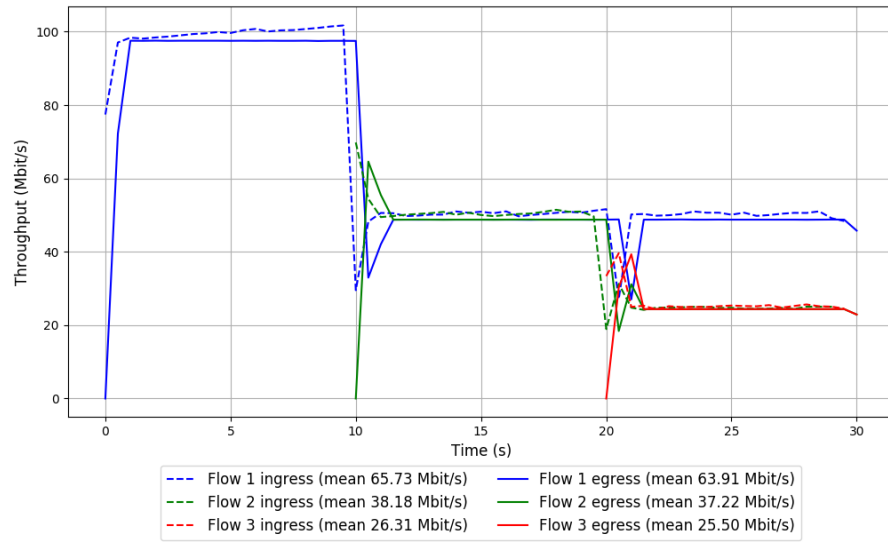
-- Flow 3:

Average throughput: 25.50 Mbit/s

95th percentile per-packet one-way delay: 60.034 ms

Loss rate: 3.32%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-19 11:58:25

End at: 2018-06-19 11:58:55

Local clock offset: -0.117 ms

Remote clock offset: 1.218 ms

Below is generated by plot.py at 2018-06-19 12:19:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 37.887 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 37.528 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 48.51 Mbit/s

95th percentile per-packet one-way delay: 37.813 ms

Loss rate: 3.35%

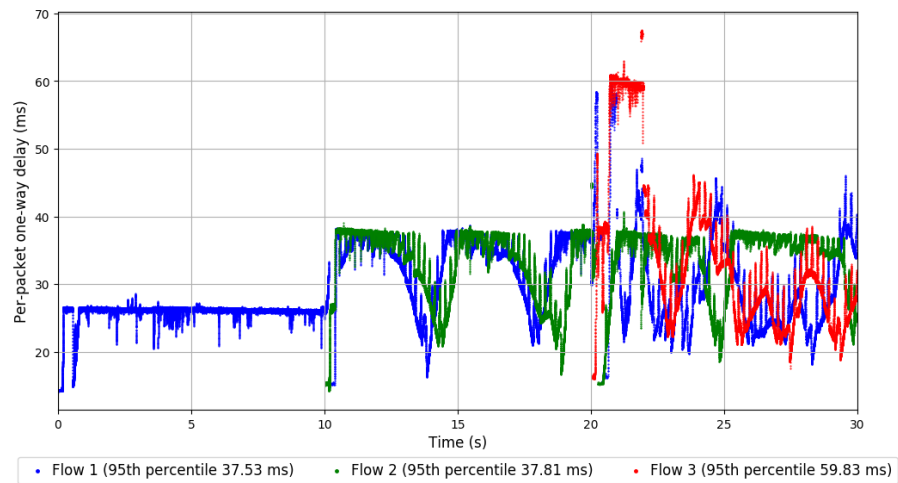
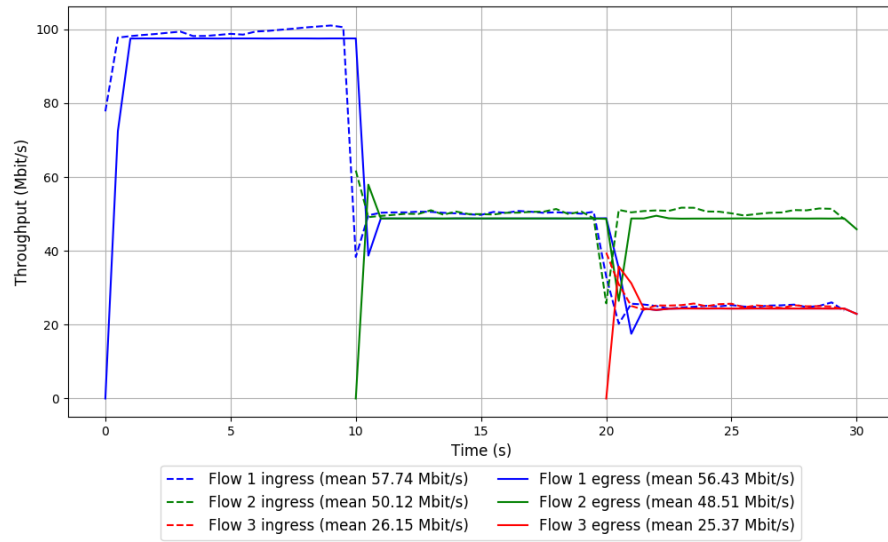
-- Flow 3:

Average throughput: 25.37 Mbit/s

95th percentile per-packet one-way delay: 59.827 ms

Loss rate: 3.27%

Run 10: Report of TCP BBR — Data Link

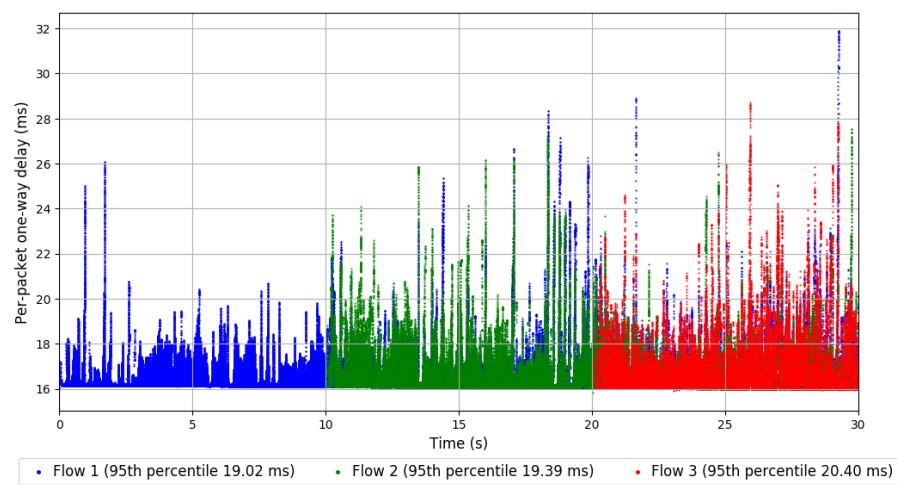
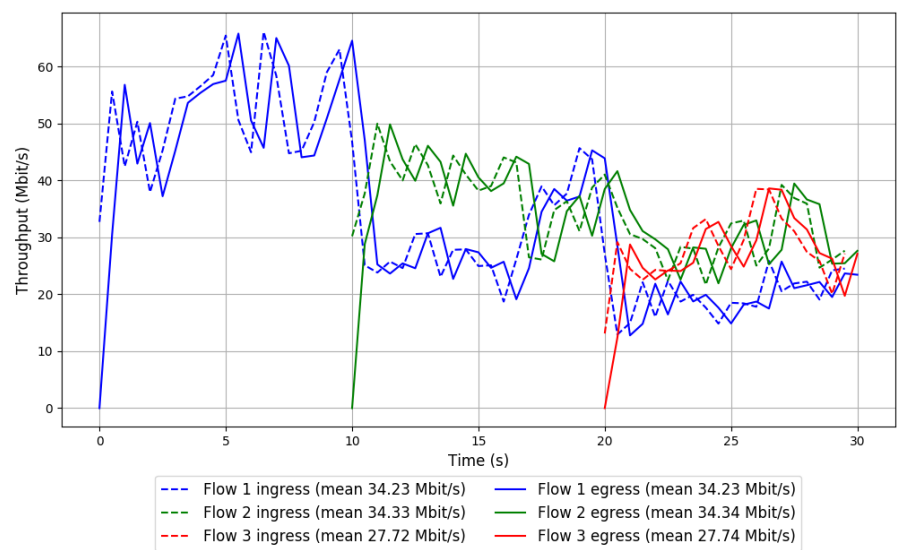


Run 1: Statistics of Copa

Start at: 2018-06-19 09:15:47
End at: 2018-06-19 09:16:17
Local clock offset: -0.084 ms
Remote clock offset: -2.658 ms

Below is generated by plot.py at 2018-06-19 12:19:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.30 Mbit/s
95th percentile per-packet one-way delay: 19.371 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 34.23 Mbit/s
95th percentile per-packet one-way delay: 19.017 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 34.34 Mbit/s
95th percentile per-packet one-way delay: 19.385 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 27.74 Mbit/s
95th percentile per-packet one-way delay: 20.397 ms
Loss rate: 0.19%

Run 1: Report of Copa — Data Link

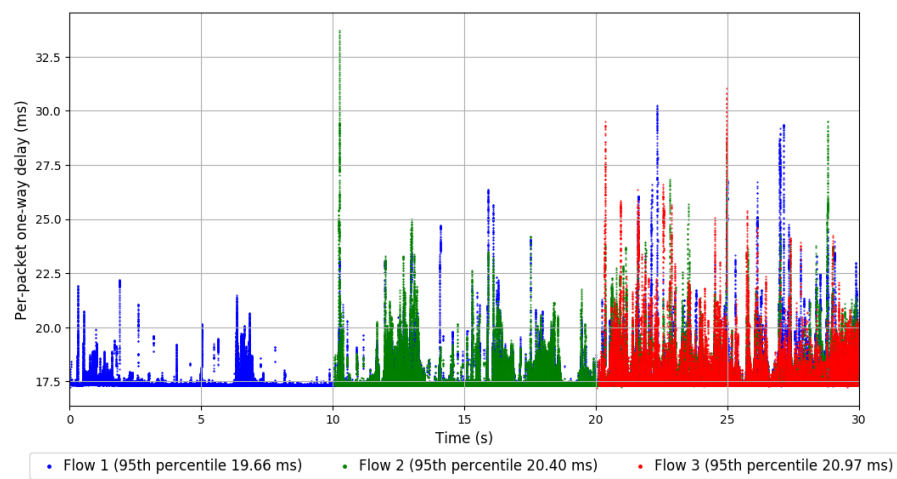
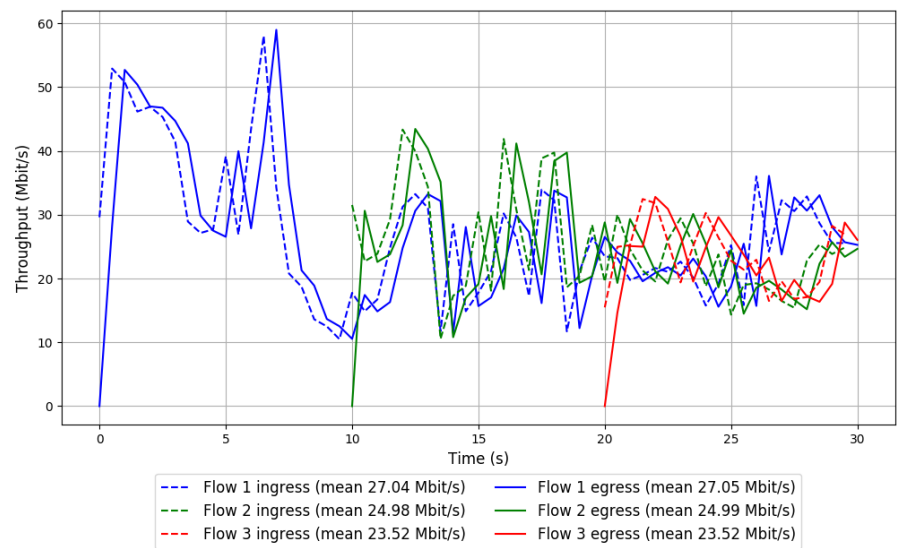


Run 2: Statistics of Copa

Start at: 2018-06-19 09:34:37
End at: 2018-06-19 09:35:07
Local clock offset: 1.881 ms
Remote clock offset: -5.316 ms

Below is generated by plot.py at 2018-06-19 12:19:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.49 Mbit/s
95th percentile per-packet one-way delay: 20.151 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 27.05 Mbit/s
95th percentile per-packet one-way delay: 19.658 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 24.99 Mbit/s
95th percentile per-packet one-way delay: 20.403 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 23.52 Mbit/s
95th percentile per-packet one-way delay: 20.970 ms
Loss rate: 0.32%

Run 2: Report of Copa — Data Link

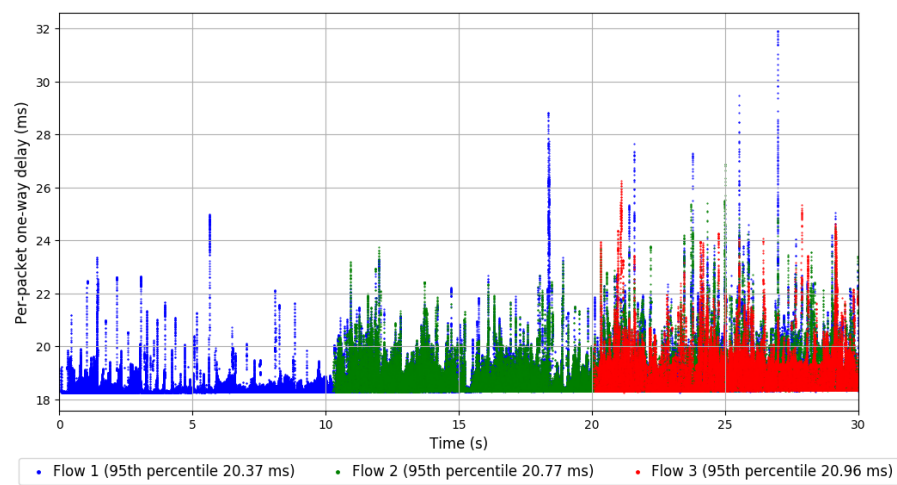
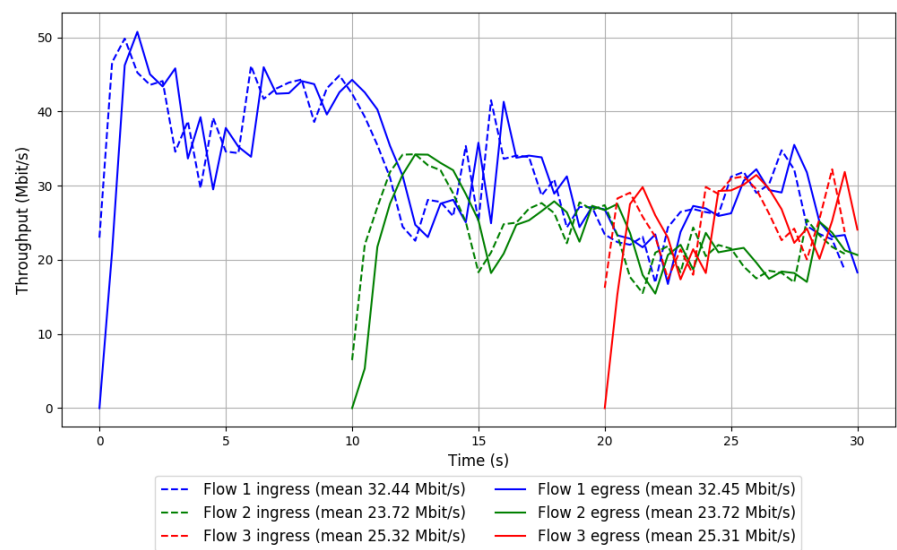


Run 3: Statistics of Copa

Start at: 2018-06-19 09:53:49
End at: 2018-06-19 09:54:19
Local clock offset: 1.738 ms
Remote clock offset: -3.191 ms

Below is generated by plot.py at 2018-06-19 12:19:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.47 Mbit/s
95th percentile per-packet one-way delay: 20.581 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 20.372 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 20.771 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 25.31 Mbit/s
95th percentile per-packet one-way delay: 20.964 ms
Loss rate: 0.25%

Run 3: Report of Copa — Data Link

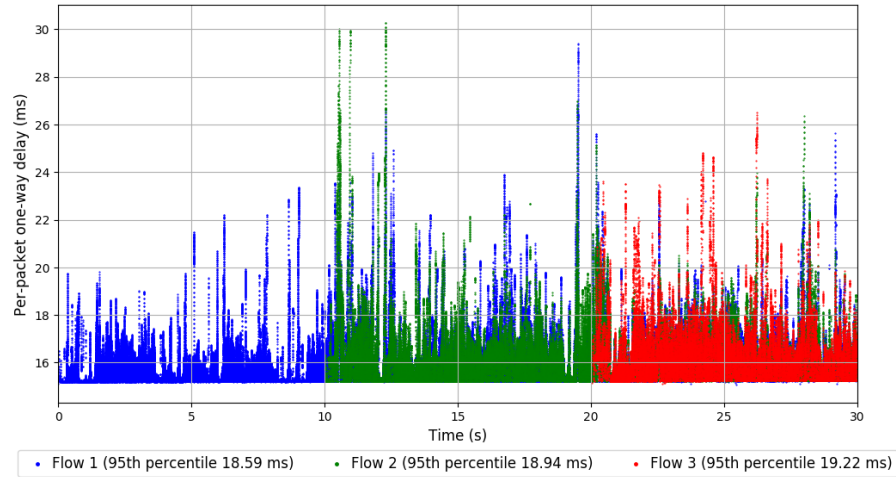
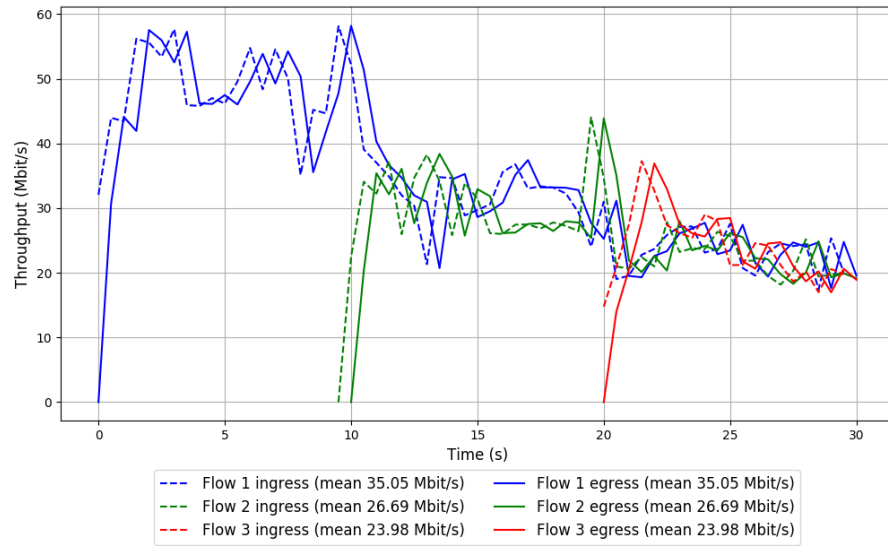


Run 4: Statistics of Copa

Start at: 2018-06-19 10:13:22
End at: 2018-06-19 10:13:52
Local clock offset: -3.046 ms
Remote clock offset: -2.458 ms

```
# Below is generated by plot.py at 2018-06-19 12:19:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.78 Mbit/s
95th percentile per-packet one-way delay: 18.793 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 18.591 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 26.69 Mbit/s
95th percentile per-packet one-way delay: 18.936 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 19.218 ms
Loss rate: 0.28%
```

Run 4: Report of Copa — Data Link

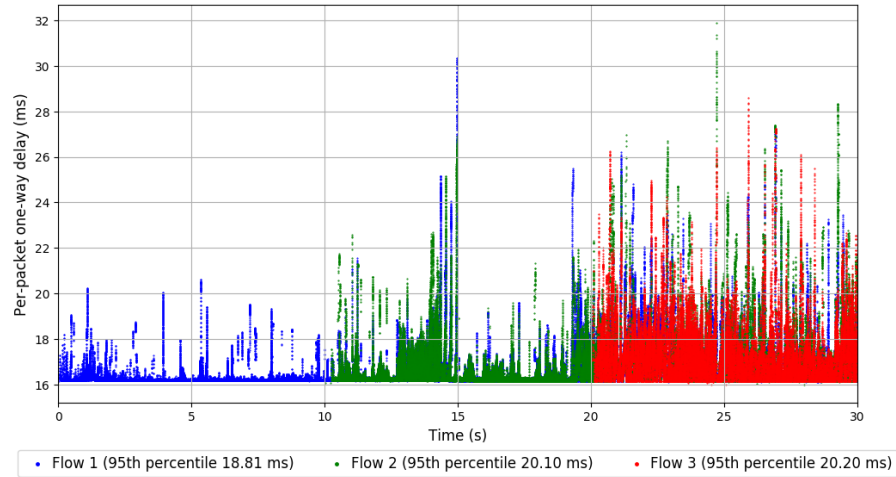
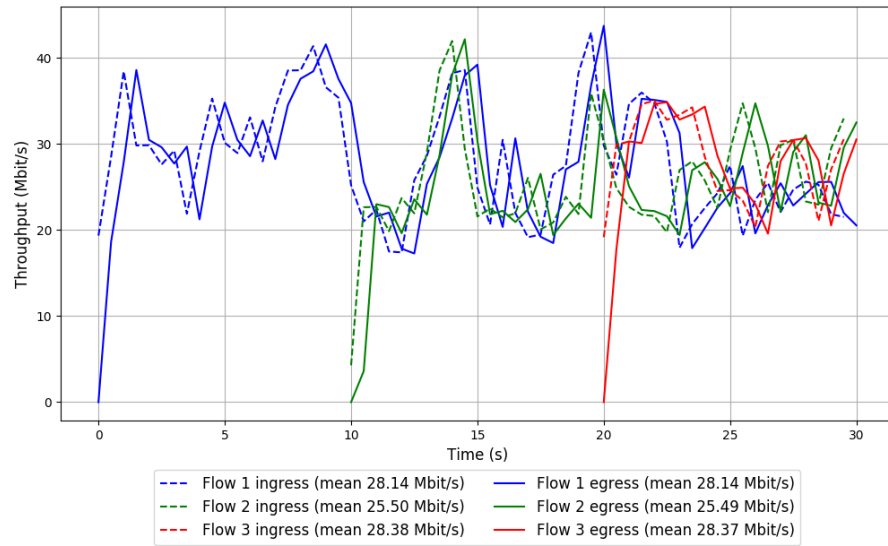


Run 5: Statistics of Copa

Start at: 2018-06-19 10:32:28
End at: 2018-06-19 10:32:58
Local clock offset: -2.694 ms
Remote clock offset: -7.875 ms

```
# Below is generated by plot.py at 2018-06-19 12:19:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.52 Mbit/s
95th percentile per-packet one-way delay: 19.530 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 18.814 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 25.49 Mbit/s
95th percentile per-packet one-way delay: 20.102 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 20.202 ms
Loss rate: 0.26%
```

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-19 10:51:44

End at: 2018-06-19 10:52:15

Local clock offset: 1.791 ms

Remote clock offset: -7.61 ms

Below is generated by plot.py at 2018-06-19 12:19:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.43 Mbit/s

95th percentile per-packet one-way delay: 20.742 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 20.534 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 21.034 ms

Loss rate: 0.13%

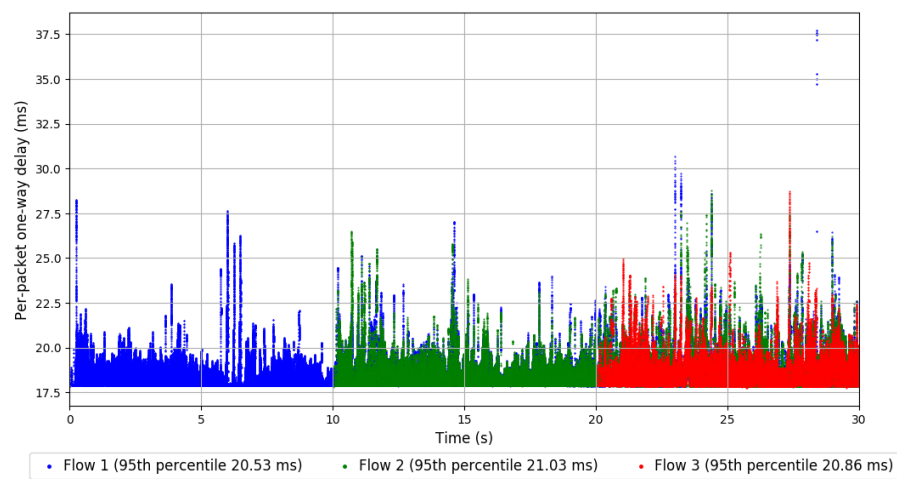
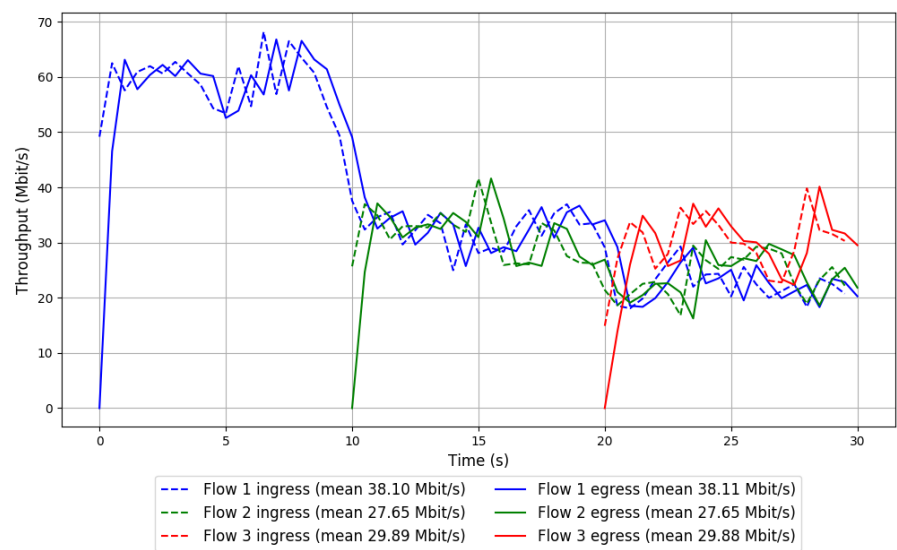
-- Flow 3:

Average throughput: 29.88 Mbit/s

95th percentile per-packet one-way delay: 20.857 ms

Loss rate: 0.31%

Run 6: Report of Copa — Data Link

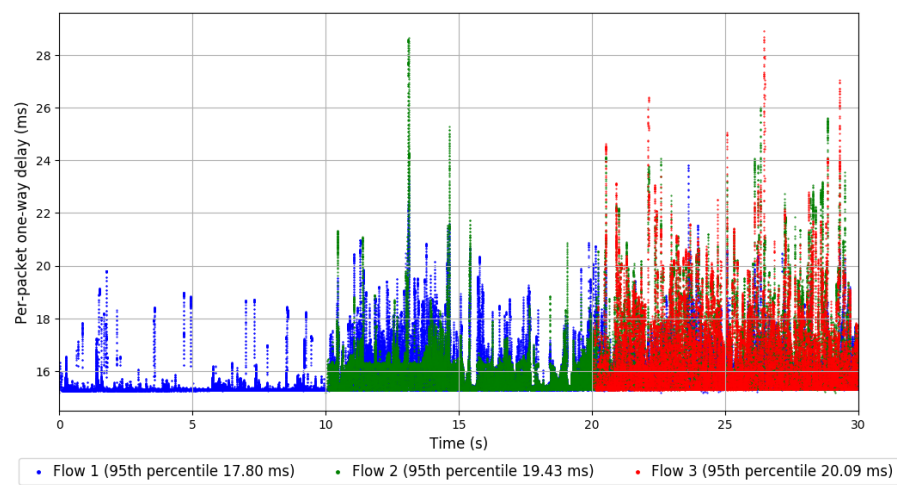
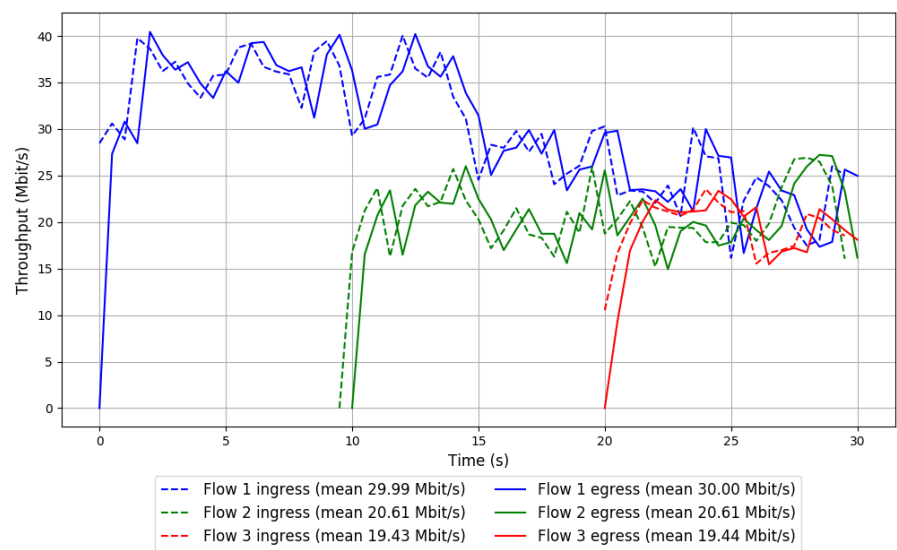


Run 7: Statistics of Copa

Start at: 2018-06-19 11:10:57
End at: 2018-06-19 11:11:27
Local clock offset: -0.171 ms
Remote clock offset: -4.641 ms

Below is generated by plot.py at 2018-06-19 12:19:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.19 Mbit/s
95th percentile per-packet one-way delay: 18.627 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 30.00 Mbit/s
95th percentile per-packet one-way delay: 17.796 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 19.433 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 19.44 Mbit/s
95th percentile per-packet one-way delay: 20.094 ms
Loss rate: 0.26%

Run 7: Report of Copa — Data Link

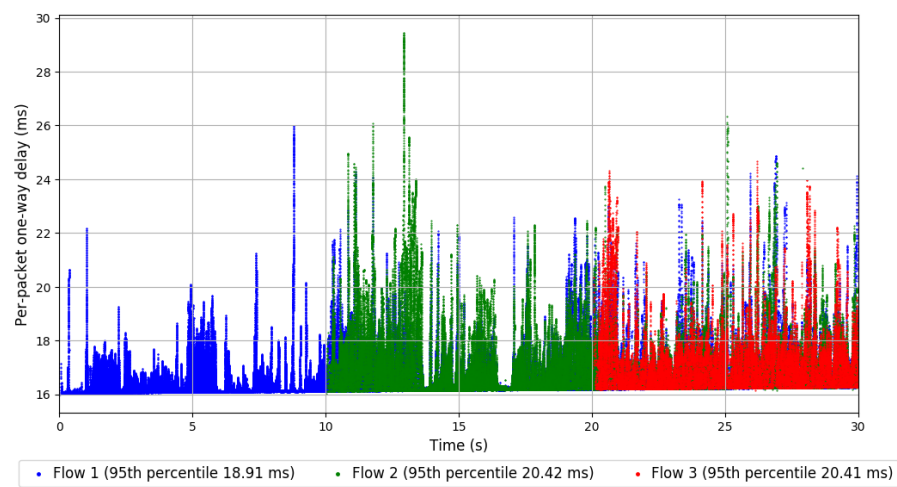
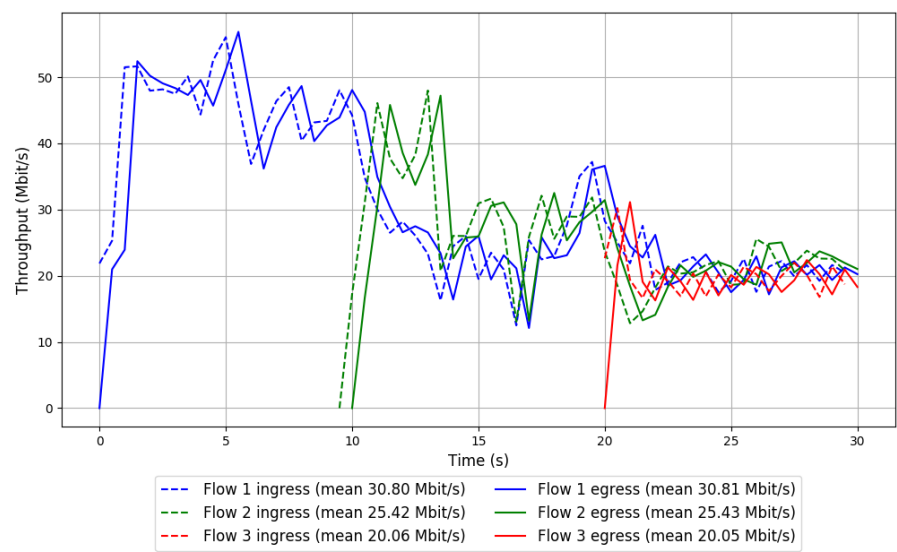


Run 8: Statistics of Copa

Start at: 2018-06-19 11:29:56
End at: 2018-06-19 11:30:26
Local clock offset: 0.553 ms
Remote clock offset: -2.899 ms

Below is generated by plot.py at 2018-06-19 12:20:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.40 Mbit/s
95th percentile per-packet one-way delay: 19.640 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 30.81 Mbit/s
95th percentile per-packet one-way delay: 18.905 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 25.43 Mbit/s
95th percentile per-packet one-way delay: 20.417 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 20.409 ms
Loss rate: 0.31%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-19 11:48:49

End at: 2018-06-19 11:49:19

Local clock offset: 0.788 ms

Remote clock offset: 1.382 ms

Below is generated by plot.py at 2018-06-19 12:20:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.46 Mbit/s

95th percentile per-packet one-way delay: 19.794 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 19.640 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 33.72 Mbit/s

95th percentile per-packet one-way delay: 19.464 ms

Loss rate: 0.08%

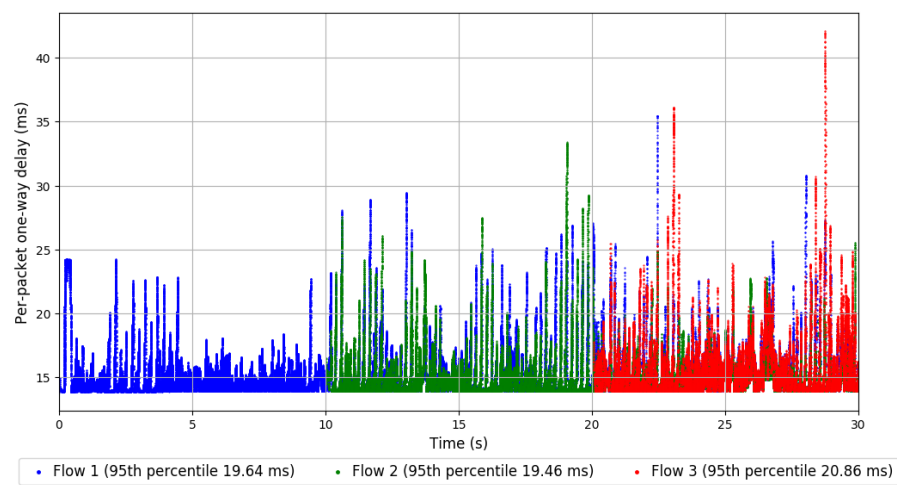
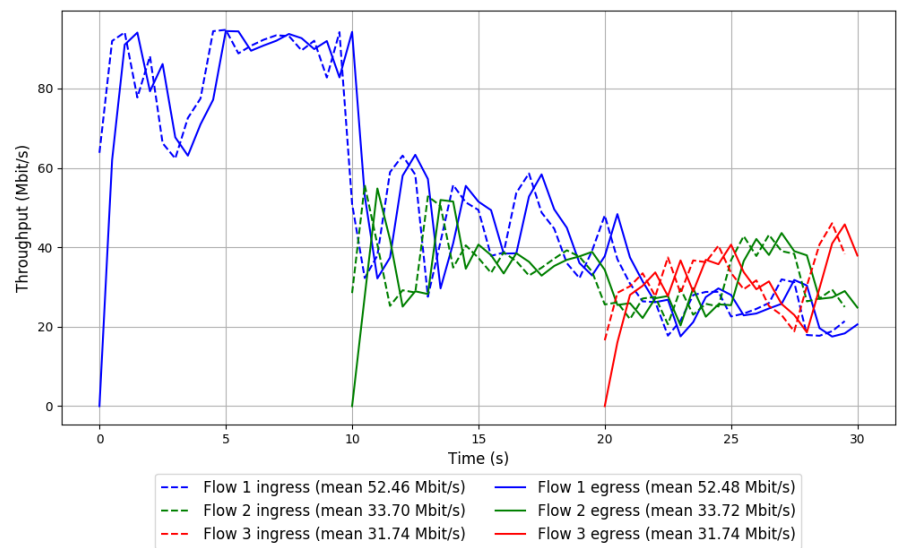
-- Flow 3:

Average throughput: 31.74 Mbit/s

95th percentile per-packet one-way delay: 20.863 ms

Loss rate: 0.30%

Run 9: Report of Copa — Data Link

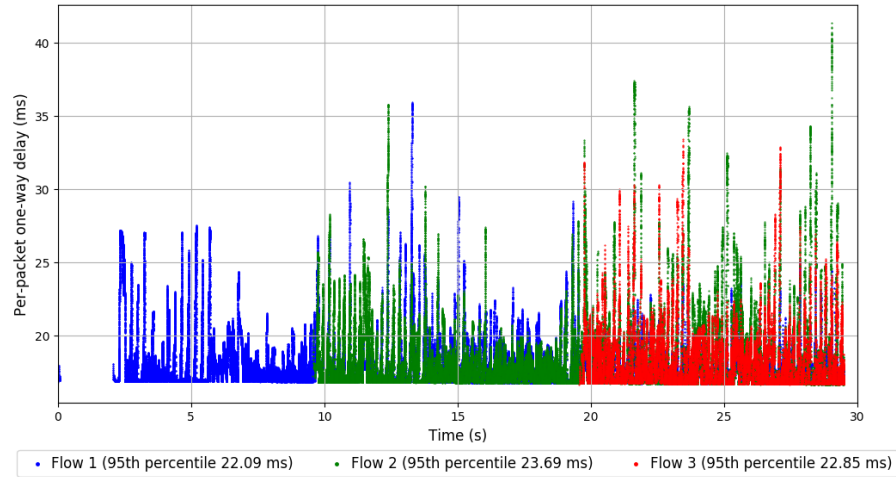
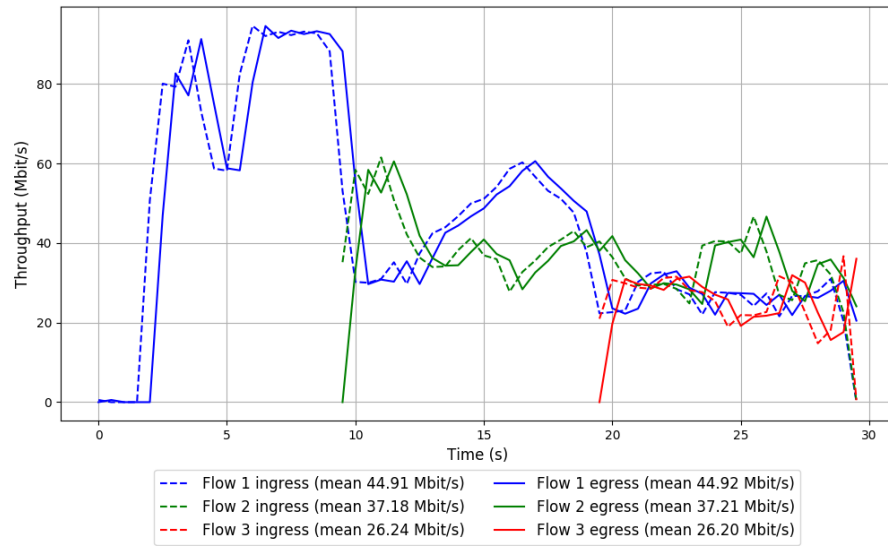


Run 10: Statistics of Copa

Start at: 2018-06-19 12:08:02
End at: 2018-06-19 12:08:32
Local clock offset: 0.676 ms
Remote clock offset: -3.005 ms

Below is generated by plot.py at 2018-06-19 12:20:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.93 Mbit/s
95th percentile per-packet one-way delay: 22.898 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.92 Mbit/s
95th percentile per-packet one-way delay: 22.093 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 23.694 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 26.20 Mbit/s
95th percentile per-packet one-way delay: 22.853 ms
Loss rate: 0.41%

Run 10: Report of Copa — Data Link

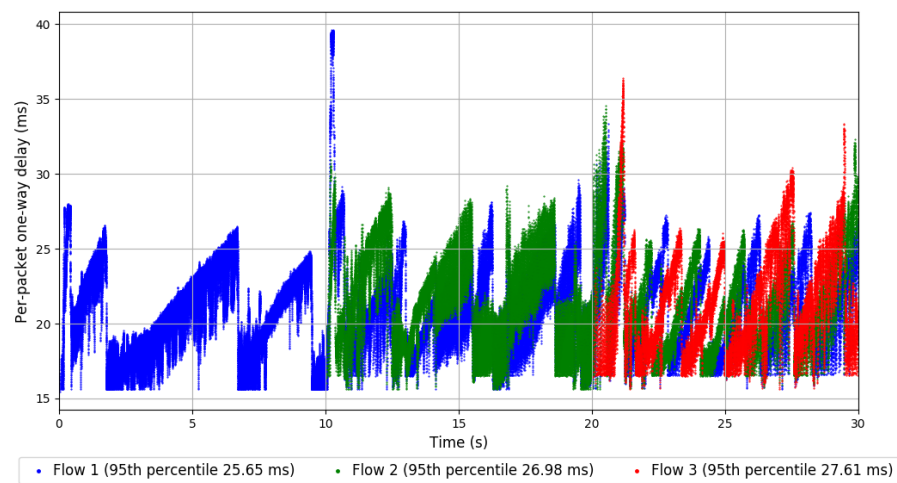
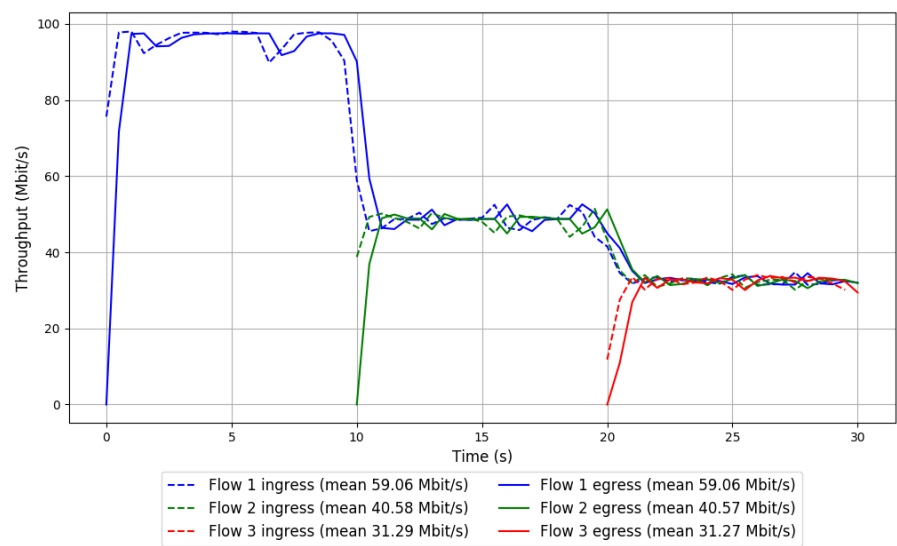


Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 09:02:47
End at: 2018-06-19 09:03:17
Local clock offset: -1.529 ms
Remote clock offset: -0.739 ms

Below is generated by plot.py at 2018-06-19 12:20:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 26.311 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 59.06 Mbit/s
95th percentile per-packet one-way delay: 25.647 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.57 Mbit/s
95th percentile per-packet one-way delay: 26.978 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 27.611 ms
Loss rate: 0.31%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 09:21:36

End at: 2018-06-19 09:22:06

Local clock offset: 2.293 ms

Remote clock offset: -3.56 ms

Below is generated by plot.py at 2018-06-19 12:20:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.24 Mbit/s

95th percentile per-packet one-way delay: 29.295 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 56.35 Mbit/s

95th percentile per-packet one-way delay: 29.046 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 35.53 Mbit/s

95th percentile per-packet one-way delay: 30.019 ms

Loss rate: 0.13%

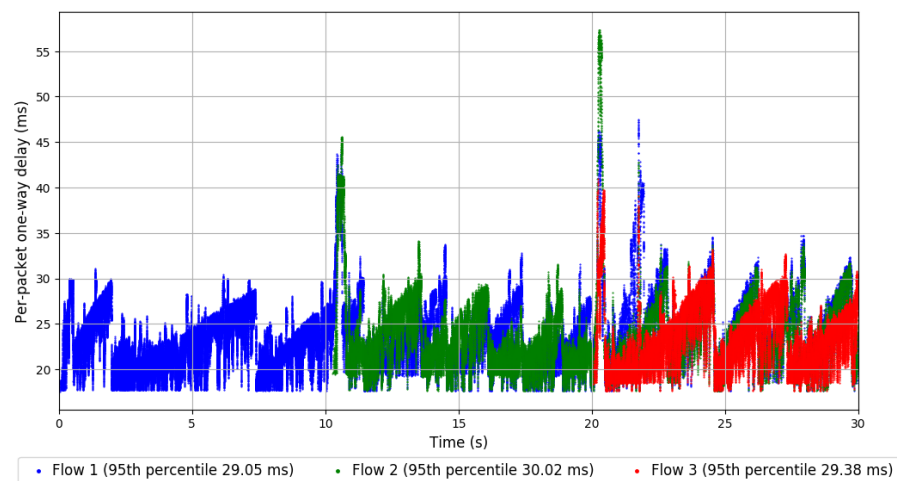
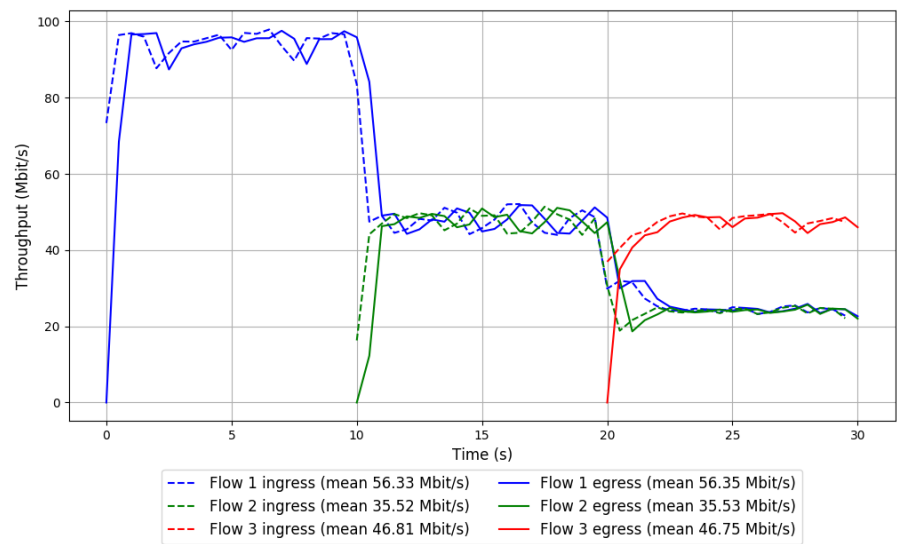
-- Flow 3:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 29.381 ms

Loss rate: 0.41%

Run 2: Report of TCP Cubic — Data Link

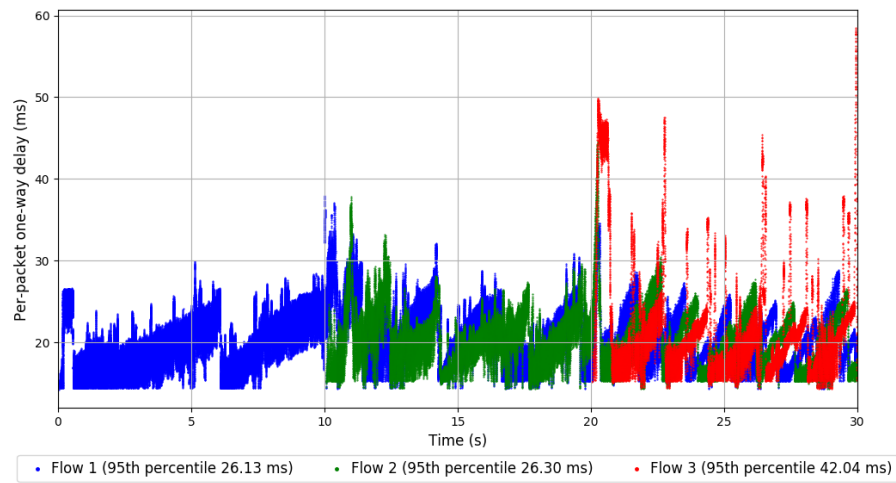
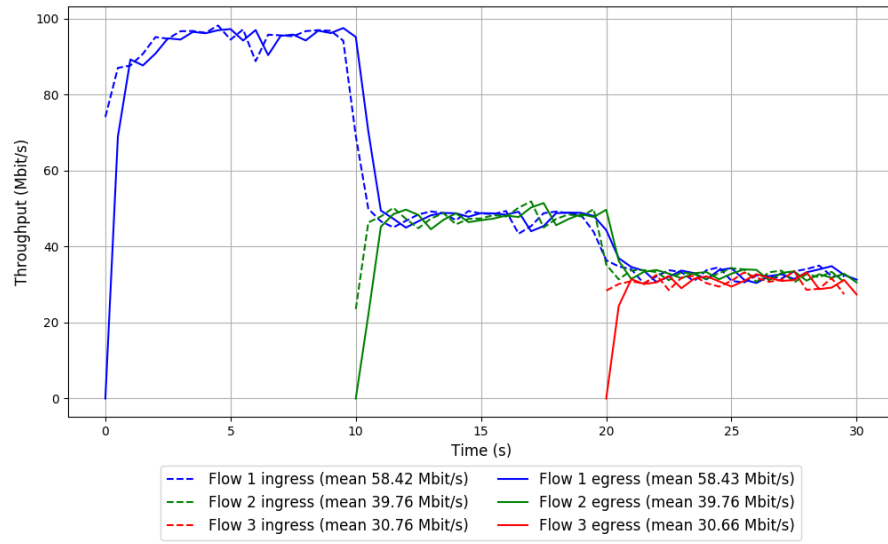


Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 09:40:36
End at: 2018-06-19 09:41:06
Local clock offset: -1.924 ms
Remote clock offset: -6.557 ms

Below is generated by plot.py at 2018-06-19 12:20:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 26.536 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 26.130 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 39.76 Mbit/s
95th percentile per-packet one-way delay: 26.305 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 42.043 ms
Loss rate: 0.57%

Run 3: Report of TCP Cubic — Data Link

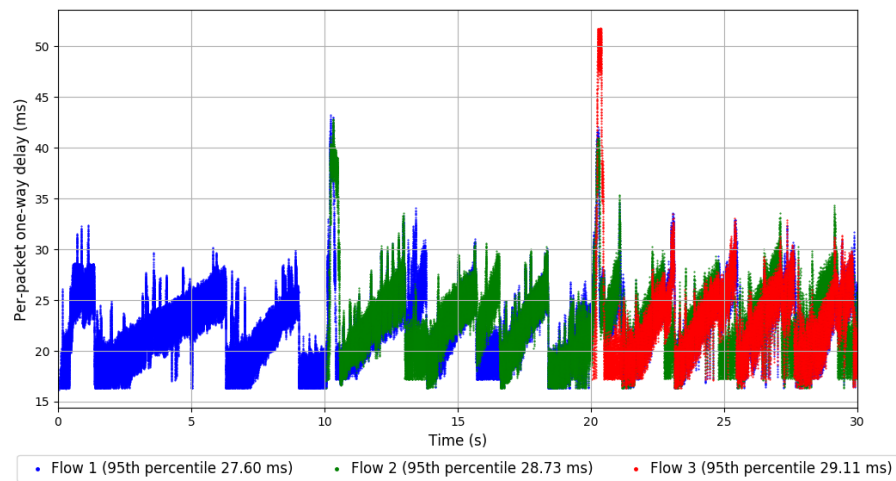
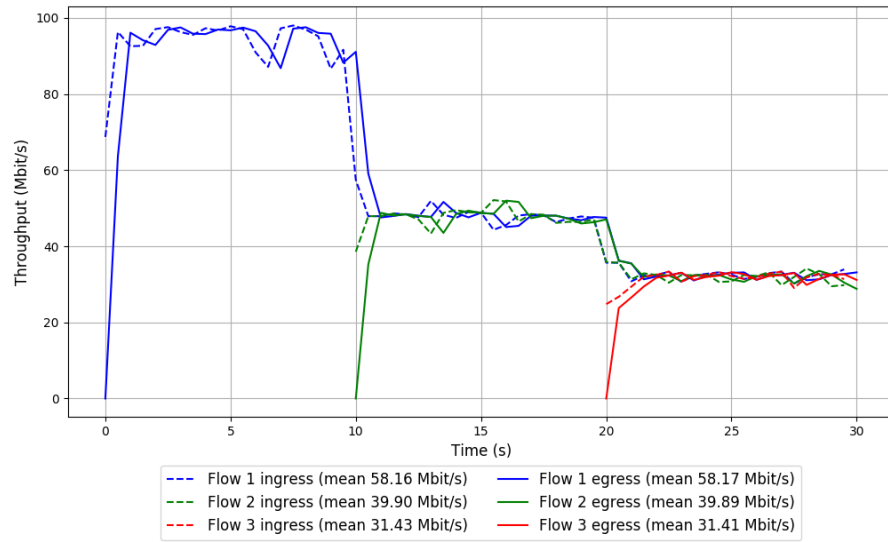


Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 09:59:43
End at: 2018-06-19 10:00:13
Local clock offset: 2.085 ms
Remote clock offset: -1.738 ms

Below is generated by plot.py at 2018-06-19 12:20:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.14 Mbit/s
95th percentile per-packet one-way delay: 28.019 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.17 Mbit/s
95th percentile per-packet one-way delay: 27.602 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 39.89 Mbit/s
95th percentile per-packet one-way delay: 28.730 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 29.107 ms
Loss rate: 0.30%

Run 4: Report of TCP Cubic — Data Link

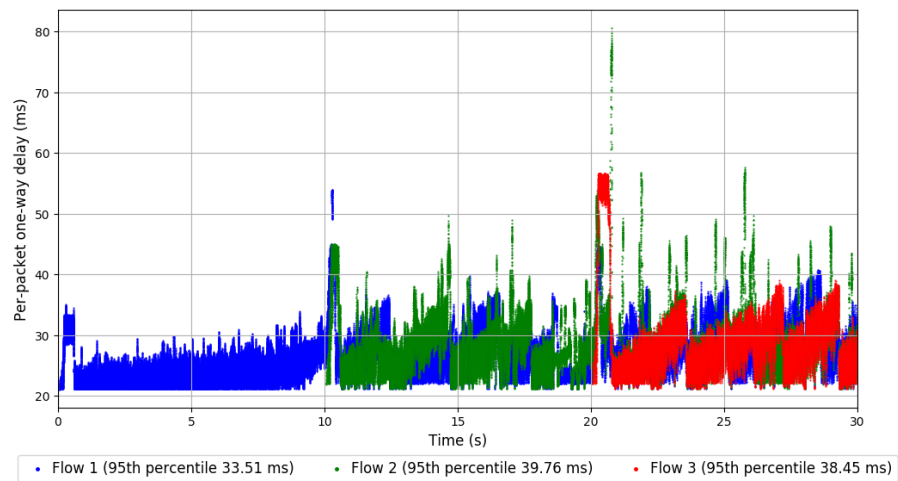
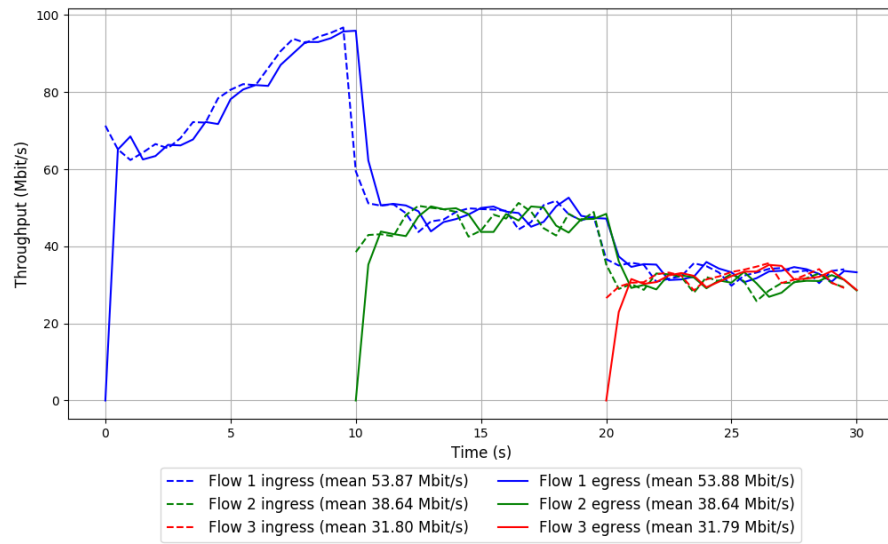


Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 10:19:12
End at: 2018-06-19 10:19:42
Local clock offset: 0.835 ms
Remote clock offset: -4.088 ms

Below is generated by plot.py at 2018-06-19 12:21:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 35.301 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 53.88 Mbit/s
95th percentile per-packet one-way delay: 33.505 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 39.759 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 38.451 ms
Loss rate: 0.37%

Run 5: Report of TCP Cubic — Data Link

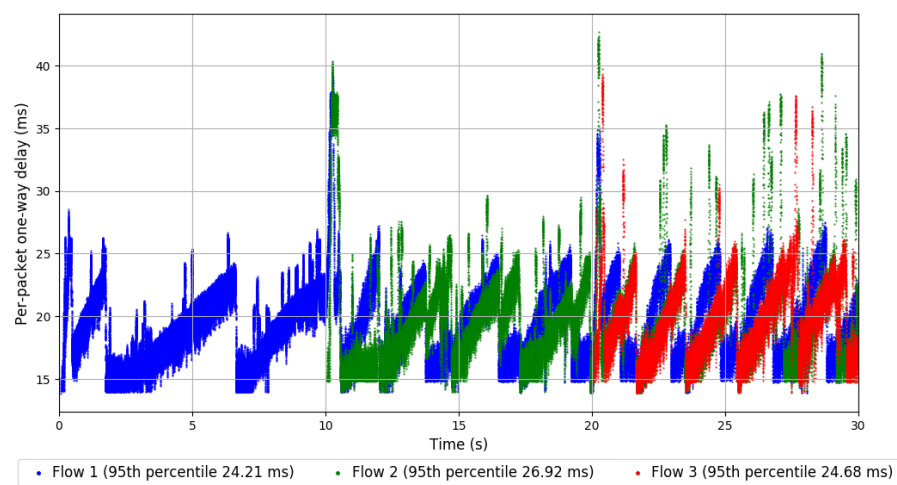
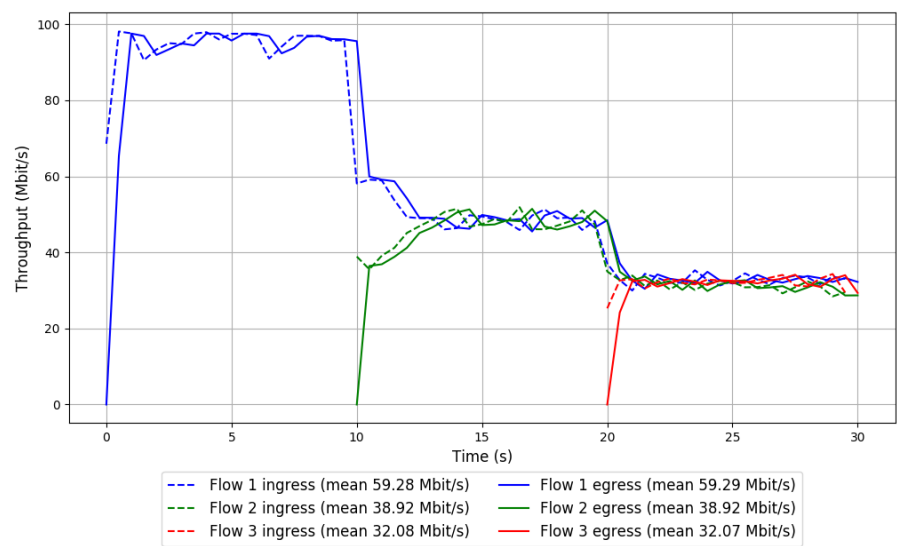


Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 10:38:16
End at: 2018-06-19 10:38:46
Local clock offset: -1.911 ms
Remote clock offset: -6.805 ms

Below is generated by plot.py at 2018-06-19 12:21:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 24.630 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.29 Mbit/s
95th percentile per-packet one-way delay: 24.211 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 26.922 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.07 Mbit/s
95th percentile per-packet one-way delay: 24.680 ms
Loss rate: 0.31%

Run 6: Report of TCP Cubic — Data Link

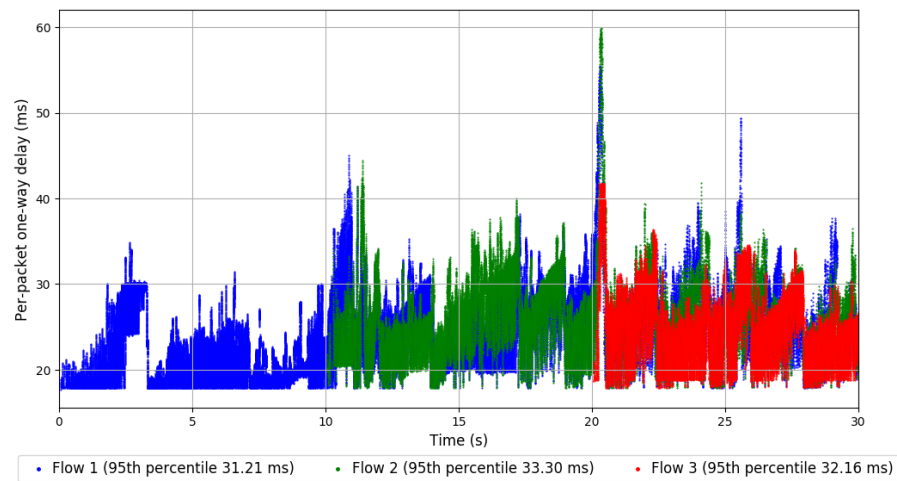
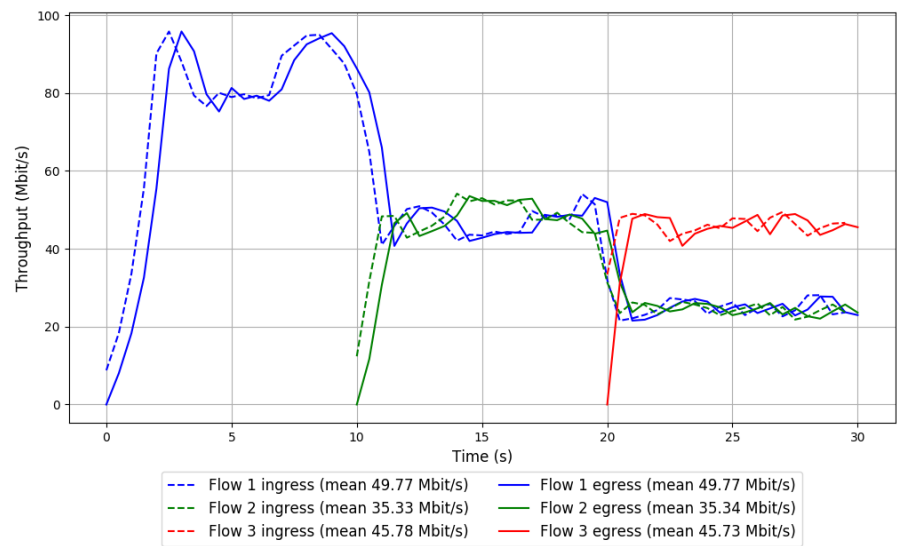


Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 10:57:40
End at: 2018-06-19 10:58:10
Local clock offset: 2.674 ms
Remote clock offset: -6.266 ms

Below is generated by plot.py at 2018-06-19 12:21:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.48 Mbit/s
95th percentile per-packet one-way delay: 32.148 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 49.77 Mbit/s
95th percentile per-packet one-way delay: 31.210 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 35.34 Mbit/s
95th percentile per-packet one-way delay: 33.301 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 45.73 Mbit/s
95th percentile per-packet one-way delay: 32.159 ms
Loss rate: 0.39%

Run 7: Report of TCP Cubic — Data Link

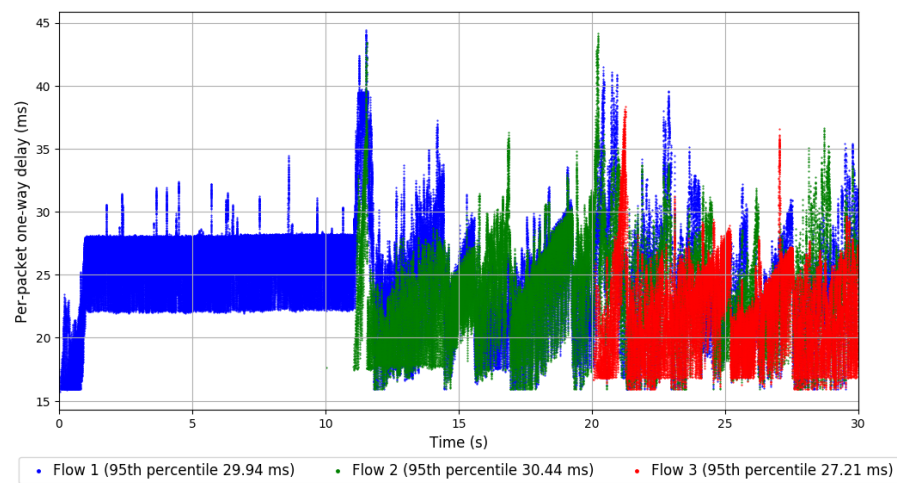
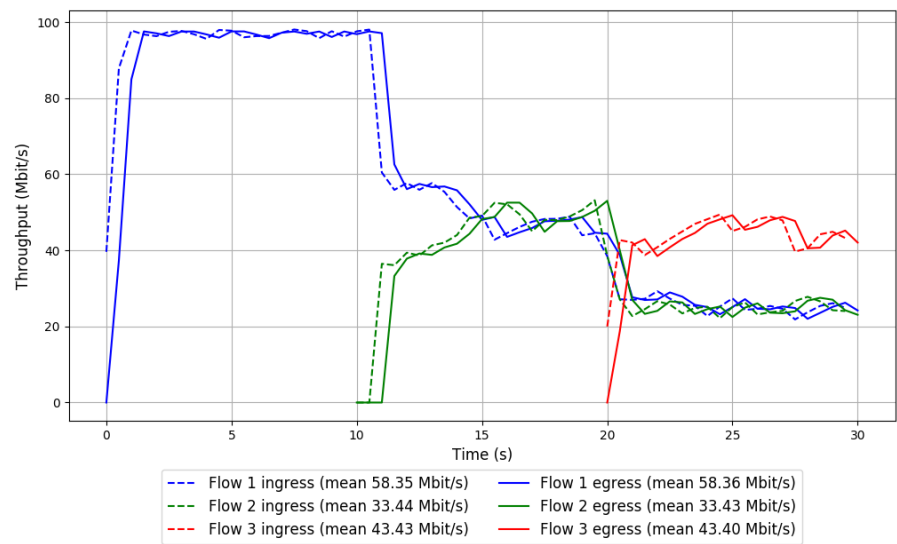


Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 11:16:47
End at: 2018-06-19 11:17:17
Local clock offset: 1.259 ms
Remote clock offset: -3.392 ms

Below is generated by plot.py at 2018-06-19 12:21:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 29.833 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 58.36 Mbit/s
95th percentile per-packet one-way delay: 29.938 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 33.43 Mbit/s
95th percentile per-packet one-way delay: 30.438 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 43.40 Mbit/s
95th percentile per-packet one-way delay: 27.215 ms
Loss rate: 0.35%

Run 8: Report of TCP Cubic — Data Link

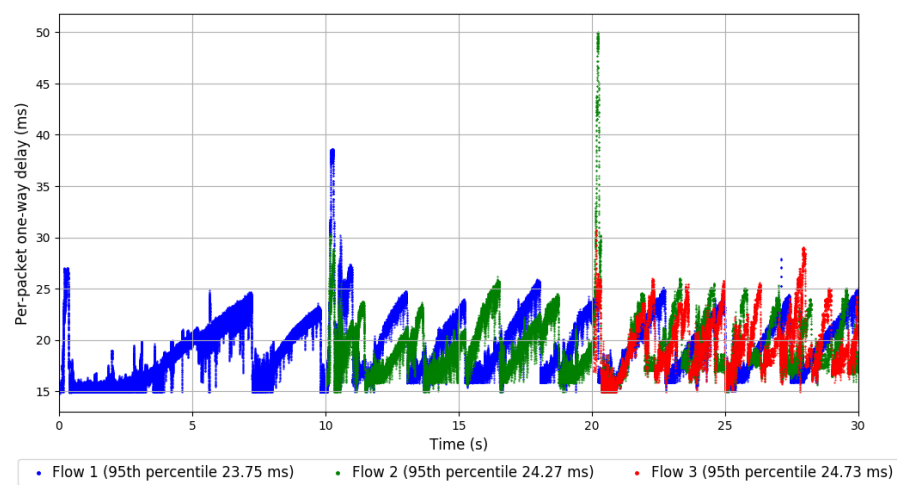
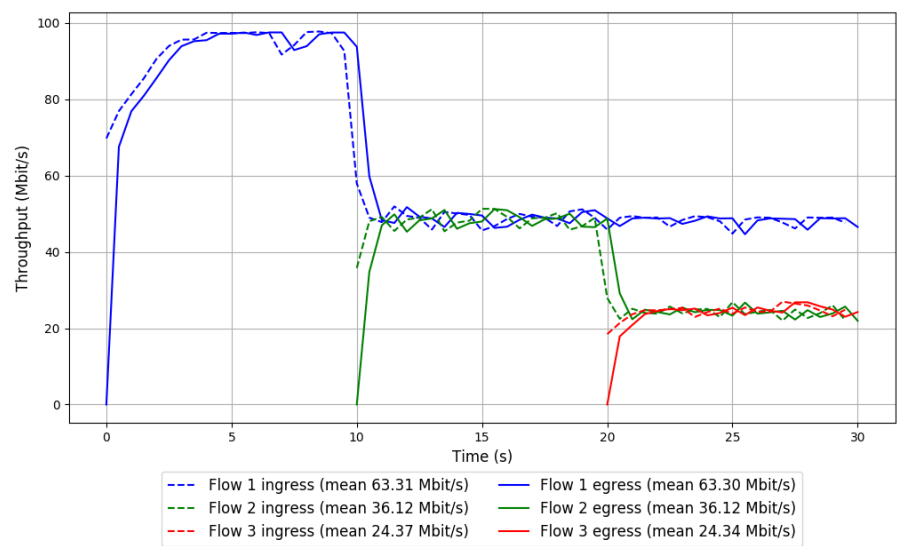


Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 11:35:49
End at: 2018-06-19 11:36:19
Local clock offset: 1.718 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-06-19 12:21:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.42 Mbit/s
95th percentile per-packet one-way delay: 23.951 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 63.30 Mbit/s
95th percentile per-packet one-way delay: 23.754 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 36.12 Mbit/s
95th percentile per-packet one-way delay: 24.273 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 24.734 ms
Loss rate: 0.38%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 11:54:55

End at: 2018-06-19 11:55:25

Local clock offset: 1.372 ms

Remote clock offset: 1.152 ms

Below is generated by plot.py at 2018-06-19 12:21:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 25.215 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 24.572 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 36.60 Mbit/s

95th percentile per-packet one-way delay: 26.101 ms

Loss rate: 0.11%

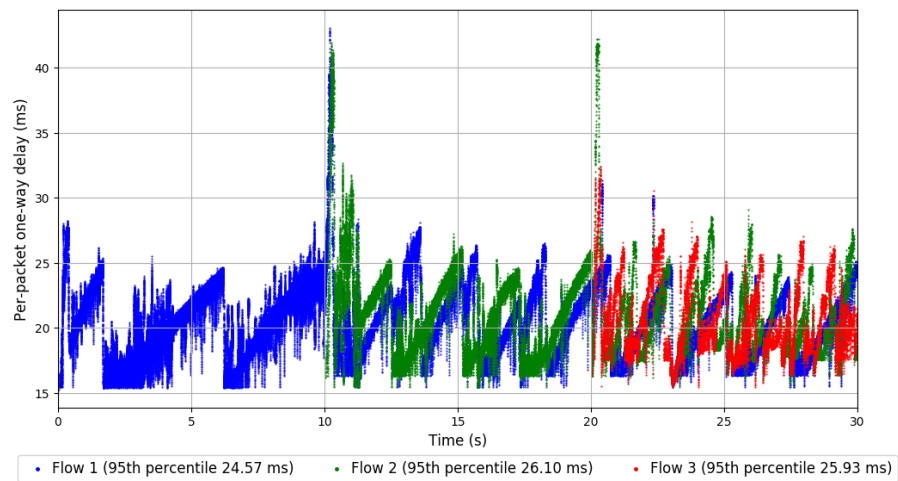
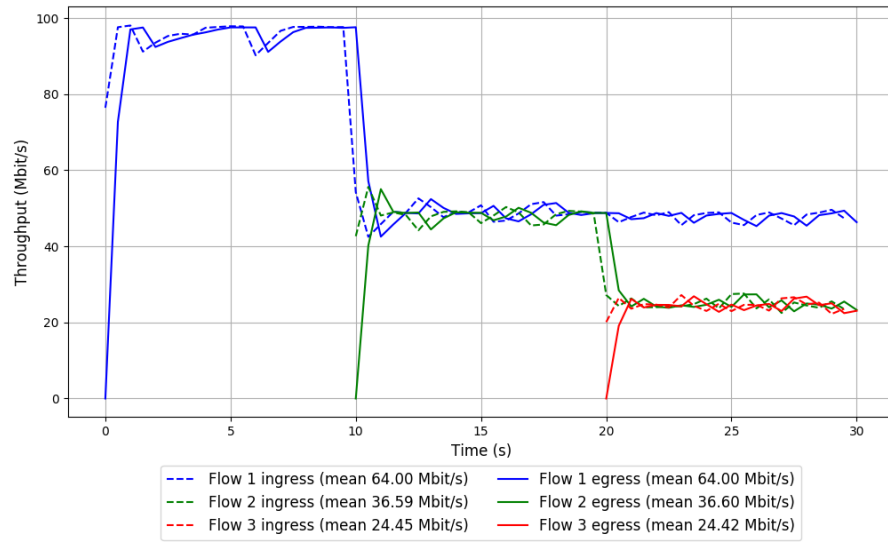
-- Flow 3:

Average throughput: 24.42 Mbit/s

95th percentile per-packet one-way delay: 25.934 ms

Loss rate: 0.34%

Run 10: Report of TCP Cubic — Data Link

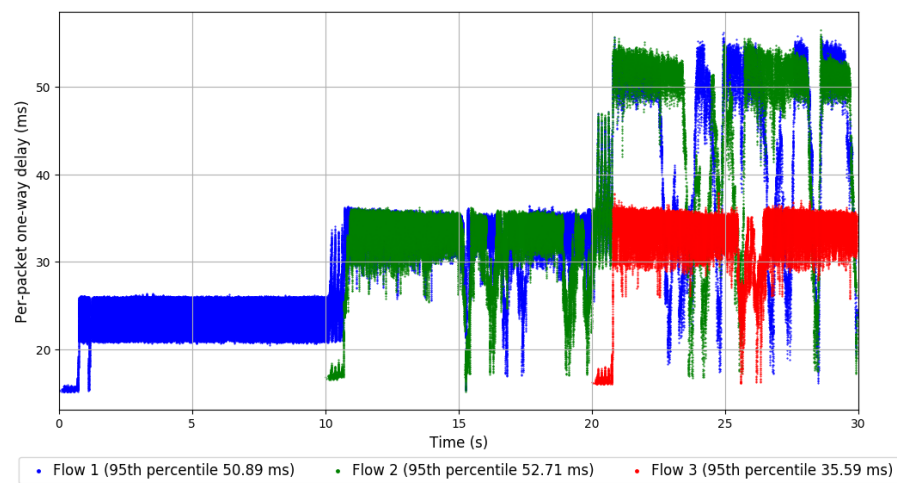
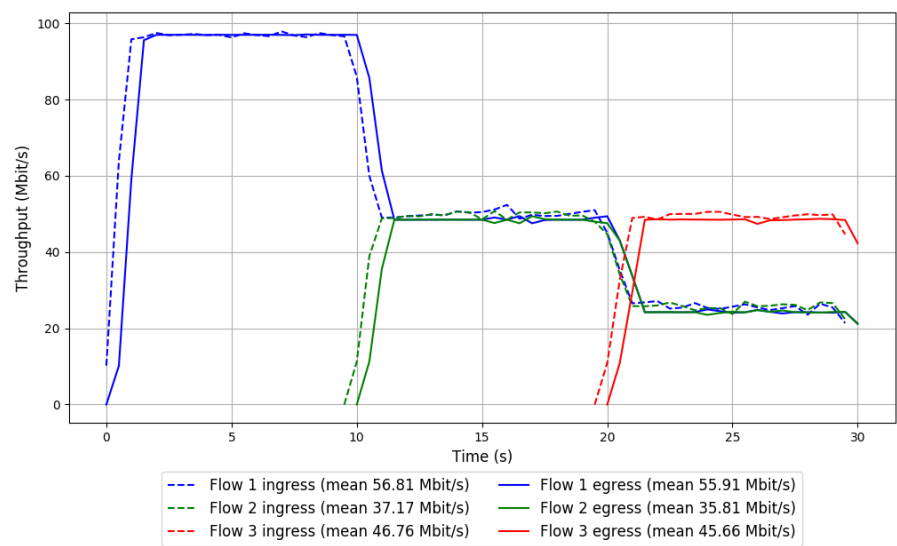


Run 1: Statistics of FillP

Start at: 2018-06-19 09:05:09
End at: 2018-06-19 09:05:39
Local clock offset: -1.702 ms
Remote clock offset: -0.853 ms

Below is generated by plot.py at 2018-06-19 12:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 51.607 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 50.889 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 52.714 ms
Loss rate: 3.80%
-- Flow 3:
Average throughput: 45.66 Mbit/s
95th percentile per-packet one-way delay: 35.587 ms
Loss rate: 2.66%

Run 1: Report of FillP — Data Link

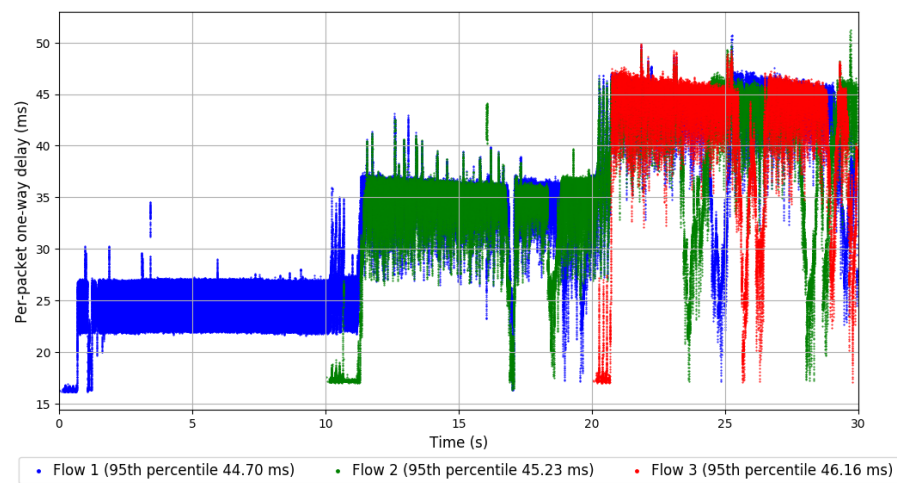
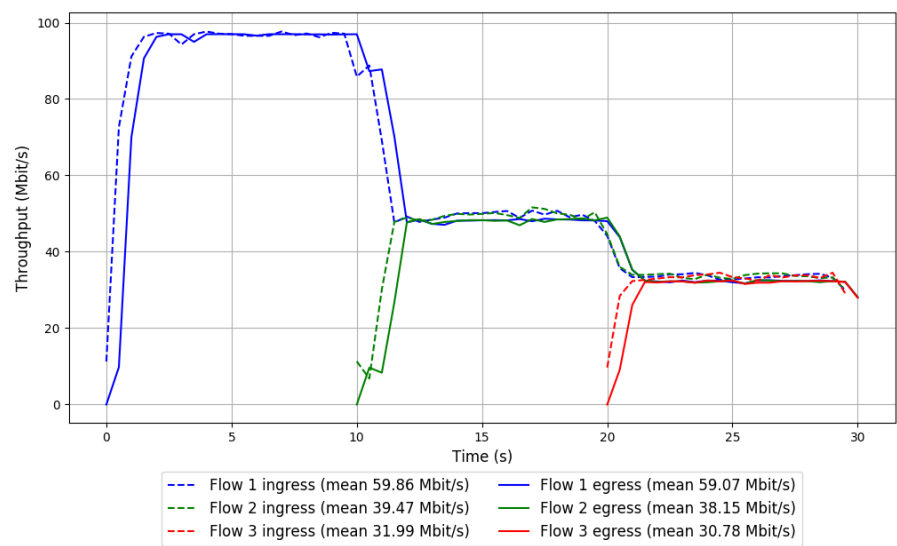


Run 2: Statistics of FillP

Start at: 2018-06-19 09:23:54
End at: 2018-06-19 09:24:24
Local clock offset: 0.224 ms
Remote clock offset: -4.671 ms

Below is generated by plot.py at 2018-06-19 12:22:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 45.292 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 44.701 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 38.15 Mbit/s
95th percentile per-packet one-way delay: 45.230 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 46.164 ms
Loss rate: 4.06%

Run 2: Report of FillP — Data Link

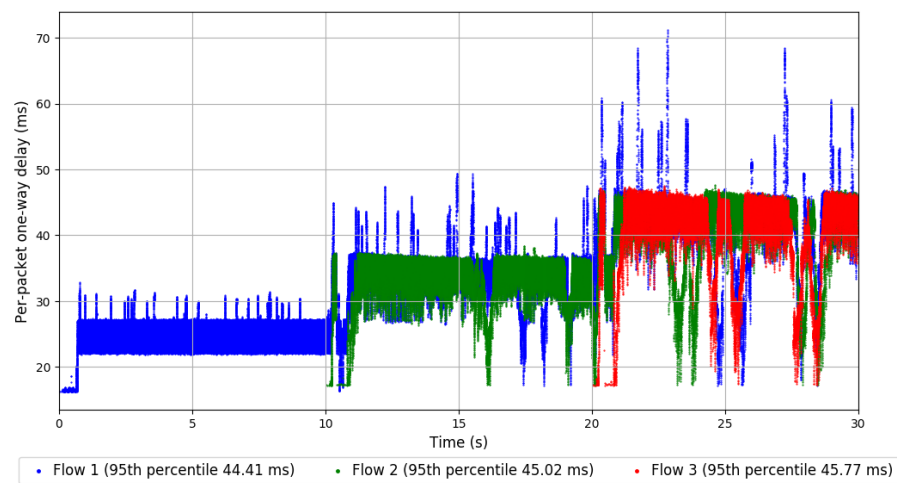
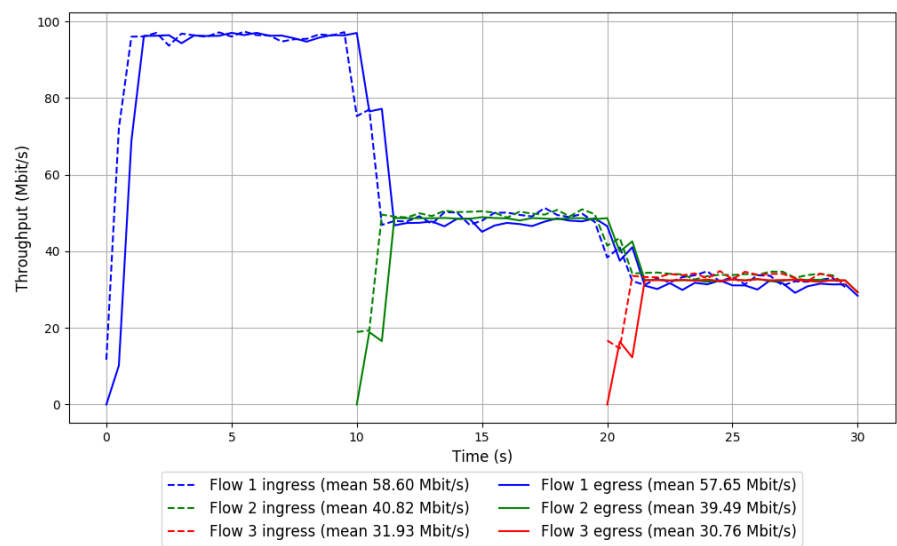


Run 3: Statistics of FillP

Start at: 2018-06-19 09:42:56
End at: 2018-06-19 09:43:26
Local clock offset: 0.77 ms
Remote clock offset: -5.987 ms

Below is generated by plot.py at 2018-06-19 12:22:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 45.038 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 57.65 Mbit/s
95th percentile per-packet one-way delay: 44.406 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 39.49 Mbit/s
95th percentile per-packet one-way delay: 45.020 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: 45.772 ms
Loss rate: 4.00%

Run 3: Report of FillP — Data Link

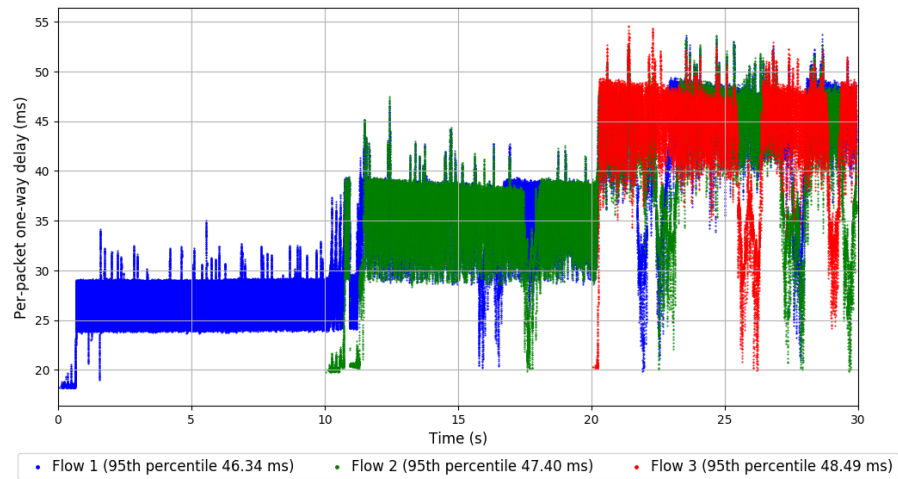
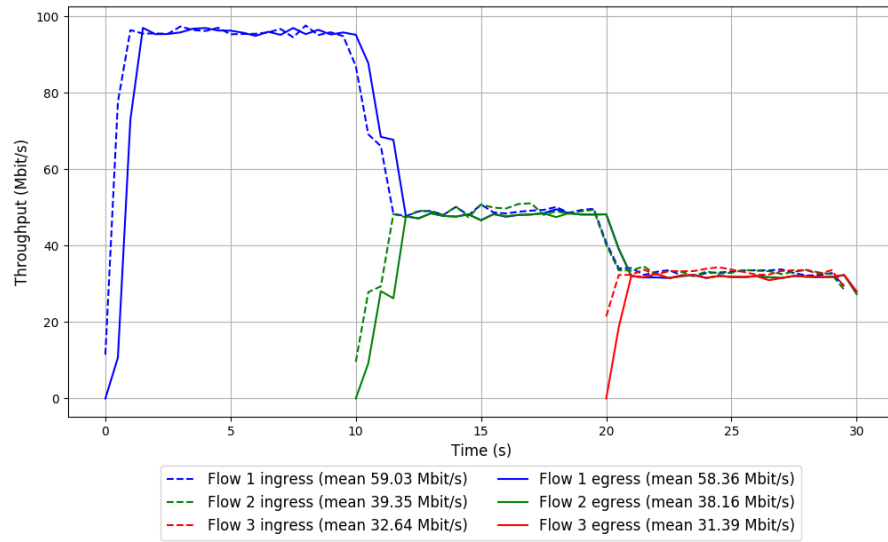


Run 4: Statistics of FillP

Start at: 2018-06-19 10:02:10
End at: 2018-06-19 10:02:40
Local clock offset: -0.334 ms
Remote clock offset: -4.46 ms

Below is generated by plot.py at 2018-06-19 12:22:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.13 Mbit/s
95th percentile per-packet one-way delay: 47.304 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 58.36 Mbit/s
95th percentile per-packet one-way delay: 46.338 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 47.400 ms
Loss rate: 3.11%
-- Flow 3:
Average throughput: 31.39 Mbit/s
95th percentile per-packet one-way delay: 48.488 ms
Loss rate: 4.25%

Run 4: Report of FillP — Data Link

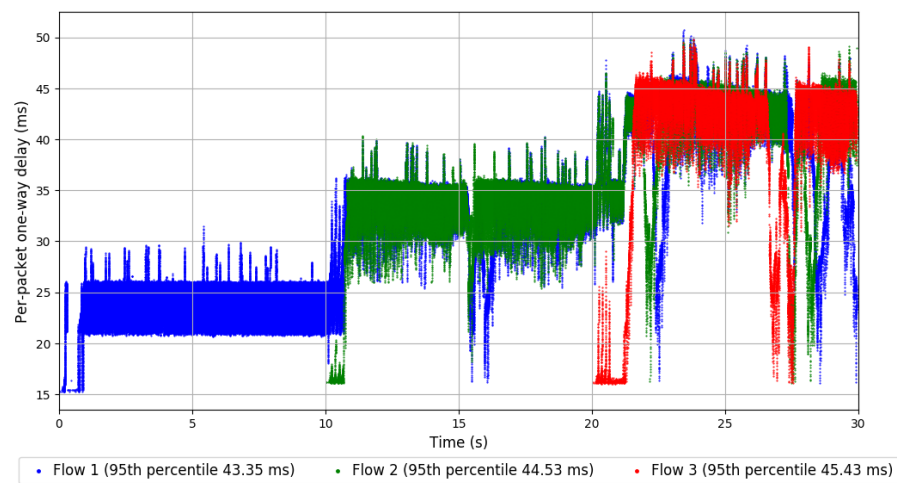
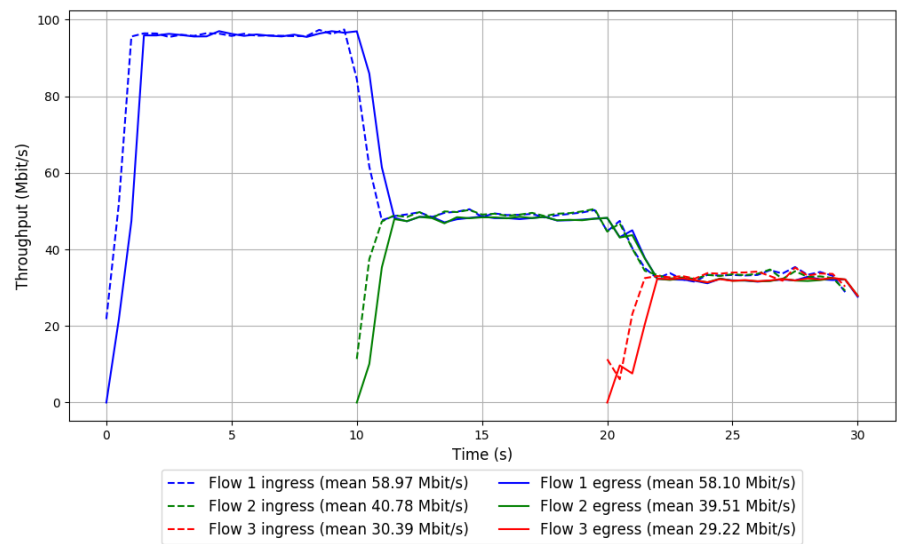


Run 5: Statistics of FillP

Start at: 2018-06-19 10:21:33
End at: 2018-06-19 10:22:03
Local clock offset: -3.116 ms
Remote clock offset: -2.962 ms

Below is generated by plot.py at 2018-06-19 12:22:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.06 Mbit/s
95th percentile per-packet one-way delay: 44.274 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 58.10 Mbit/s
95th percentile per-packet one-way delay: 43.348 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 39.51 Mbit/s
95th percentile per-packet one-way delay: 44.530 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 45.430 ms
Loss rate: 4.22%

Run 5: Report of FillP — Data Link

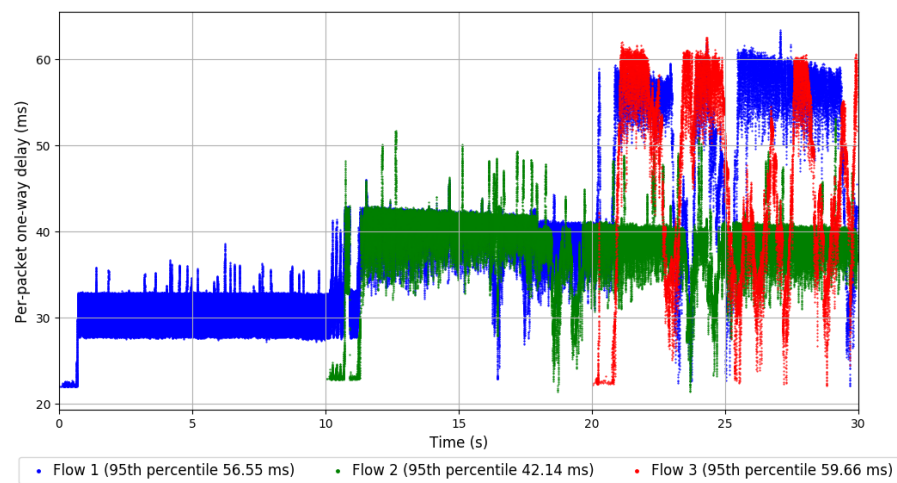
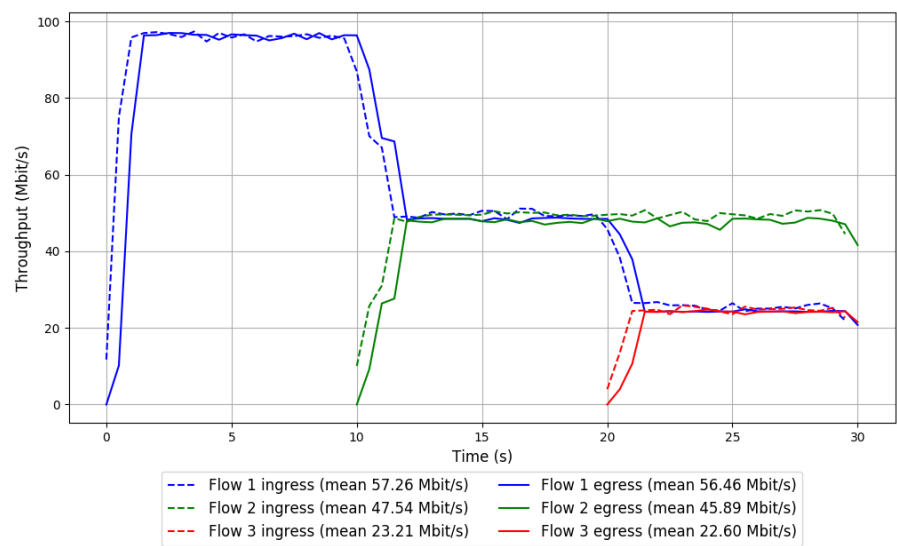


Run 6: Statistics of FillP

Start at: 2018-06-19 10:40:41
End at: 2018-06-19 10:41:11
Local clock offset: 2.003 ms
Remote clock offset: -8.138 ms

Below is generated by plot.py at 2018-06-19 12:22:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 56.426 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 56.46 Mbit/s
95th percentile per-packet one-way delay: 56.550 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 45.89 Mbit/s
95th percentile per-packet one-way delay: 42.137 ms
Loss rate: 3.61%
-- Flow 3:
Average throughput: 22.60 Mbit/s
95th percentile per-packet one-way delay: 59.657 ms
Loss rate: 3.02%

Run 6: Report of FillP — Data Link

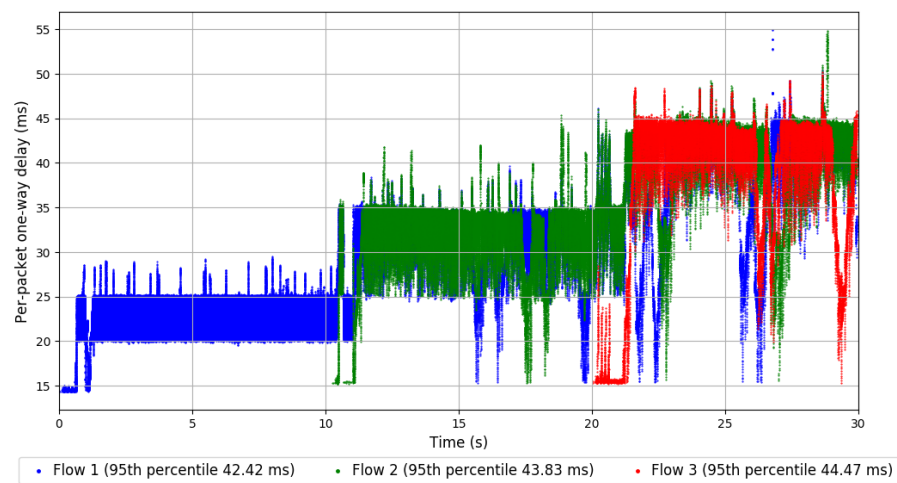
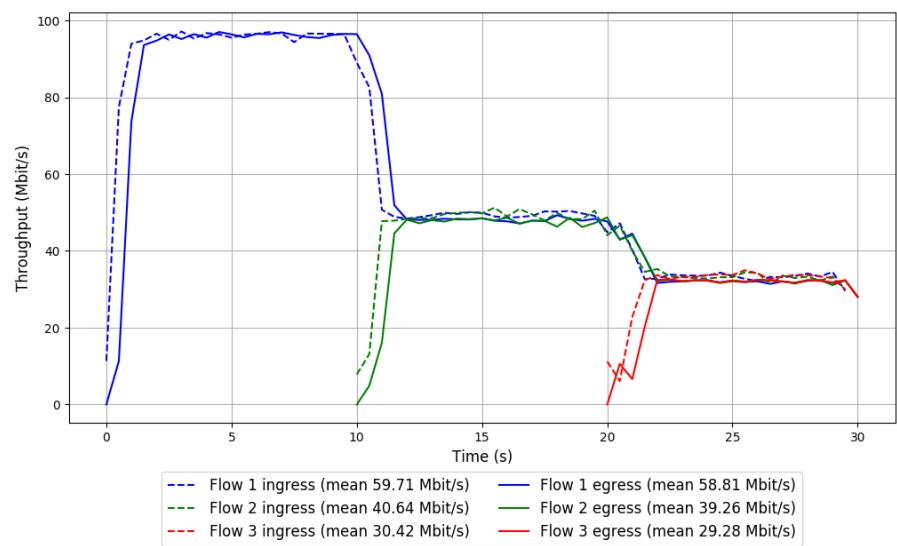


Run 7: Statistics of FillP

Start at: 2018-06-19 11:00:01
End at: 2018-06-19 11:00:31
Local clock offset: 2.03 ms
Remote clock offset: -4.842 ms

Below is generated by plot.py at 2018-06-19 12:22:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.33 Mbit/s
95th percentile per-packet one-way delay: 43.528 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 58.81 Mbit/s
95th percentile per-packet one-way delay: 42.420 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 43.828 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 29.28 Mbit/s
95th percentile per-packet one-way delay: 44.470 ms
Loss rate: 4.10%

Run 7: Report of FillP — Data Link

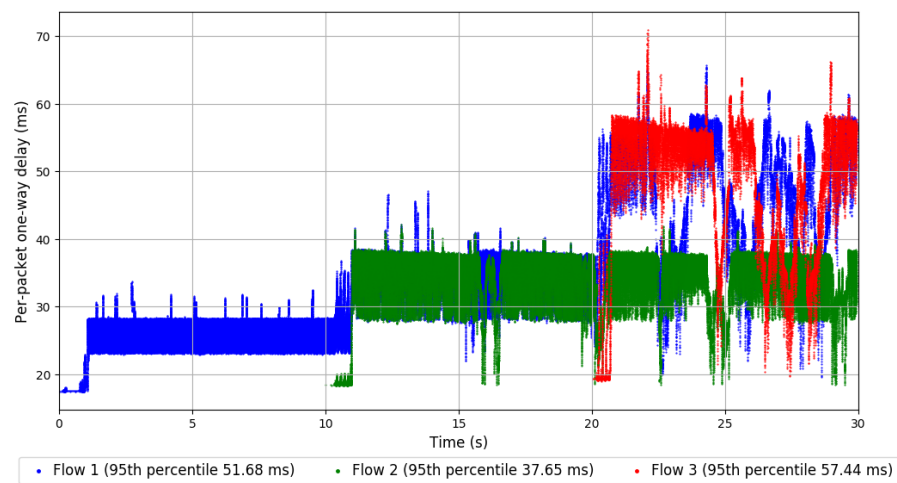
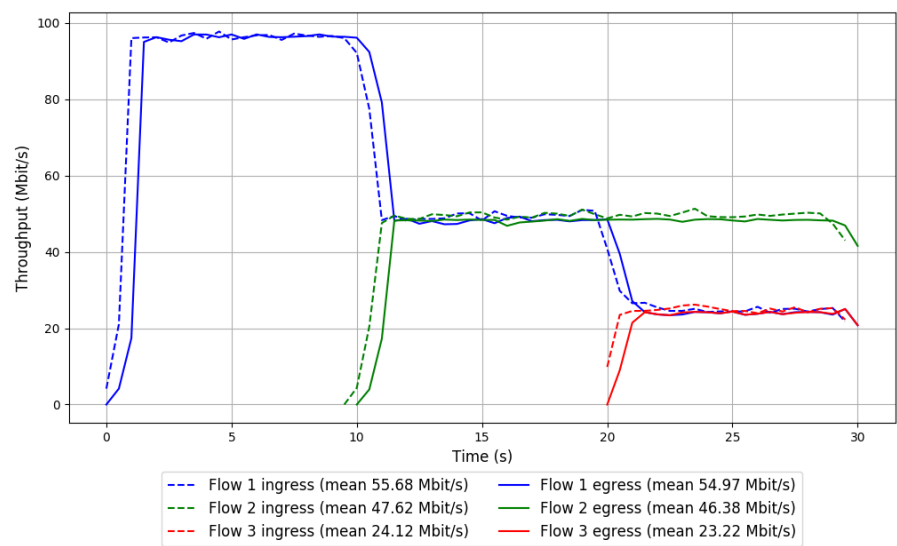


Run 8: Statistics of FillP

Start at: 2018-06-19 11:19:10
End at: 2018-06-19 11:19:40
Local clock offset: 0.364 ms
Remote clock offset: -5.867 ms

Below is generated by plot.py at 2018-06-19 12:22:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.55 Mbit/s
95th percentile per-packet one-way delay: 53.569 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 54.97 Mbit/s
95th percentile per-packet one-way delay: 51.677 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 46.38 Mbit/s
95th percentile per-packet one-way delay: 37.647 ms
Loss rate: 2.77%
-- Flow 3:
Average throughput: 23.22 Mbit/s
95th percentile per-packet one-way delay: 57.442 ms
Loss rate: 4.18%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-19 11:38:09

End at: 2018-06-19 11:38:39

Local clock offset: -1.221 ms

Remote clock offset: 0.24 ms

Below is generated by plot.py at 2018-06-19 12:23:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 47.796 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 56.08 Mbit/s

95th percentile per-packet one-way delay: 47.006 ms

Loss rate: 1.51%

-- Flow 2:

Average throughput: 47.13 Mbit/s

95th percentile per-packet one-way delay: 31.864 ms

Loss rate: 2.89%

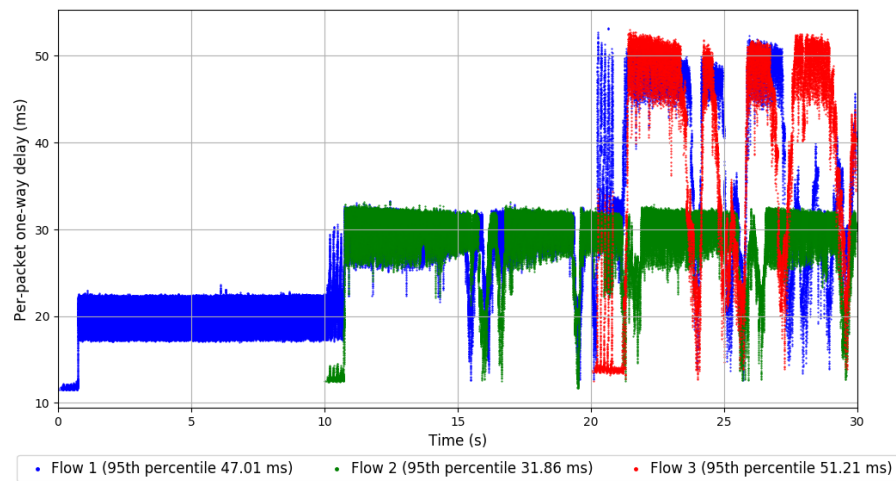
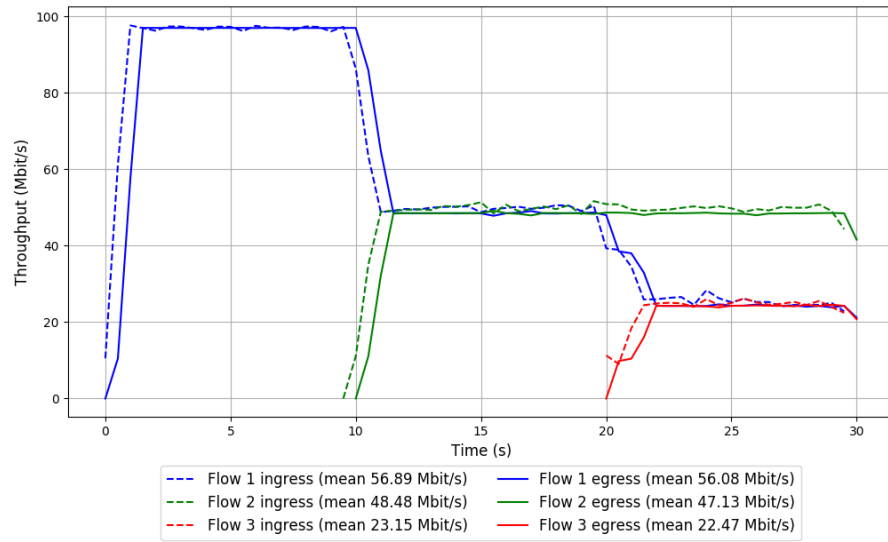
-- Flow 3:

Average throughput: 22.47 Mbit/s

95th percentile per-packet one-way delay: 51.210 ms

Loss rate: 3.19%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-19 11:57:15

End at: 2018-06-19 11:57:45

Local clock offset: 3.077 ms

Remote clock offset: 1.119 ms

Below is generated by plot.py at 2018-06-19 12:23:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.91 Mbit/s

95th percentile per-packet one-way delay: 46.458 ms

Loss rate: 2.39%

-- Flow 1:

Average throughput: 58.48 Mbit/s

95th percentile per-packet one-way delay: 45.943 ms

Loss rate: 1.68%

-- Flow 2:

Average throughput: 39.45 Mbit/s

95th percentile per-packet one-way delay: 46.447 ms

Loss rate: 3.26%

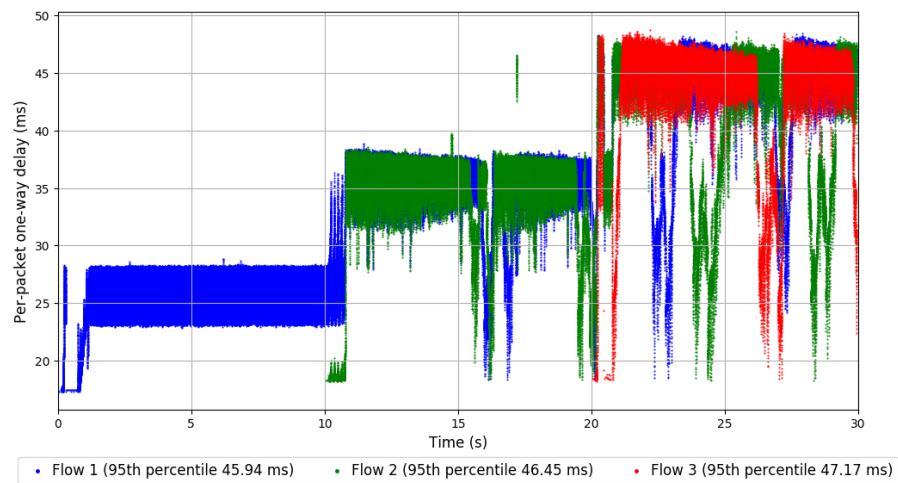
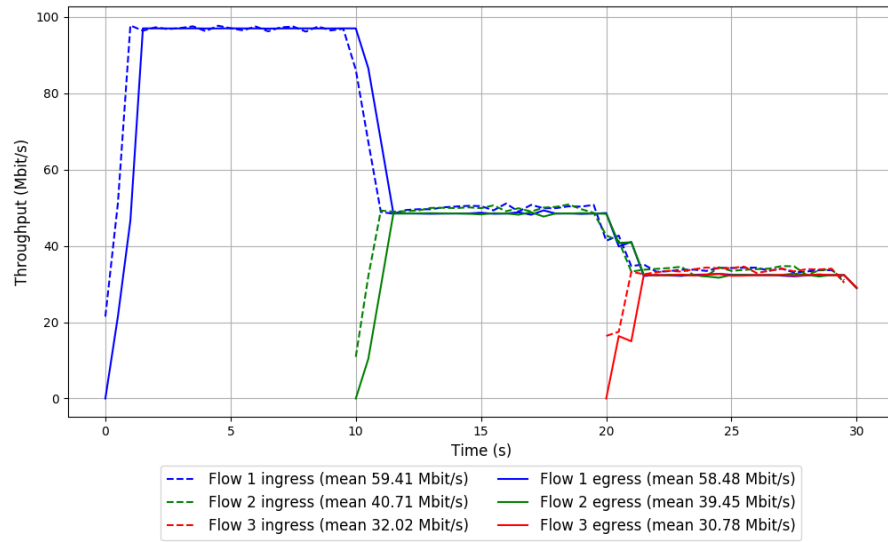
-- Flow 3:

Average throughput: 30.78 Mbit/s

95th percentile per-packet one-way delay: 47.175 ms

Loss rate: 4.13%

Run 10: Report of FillP — Data Link

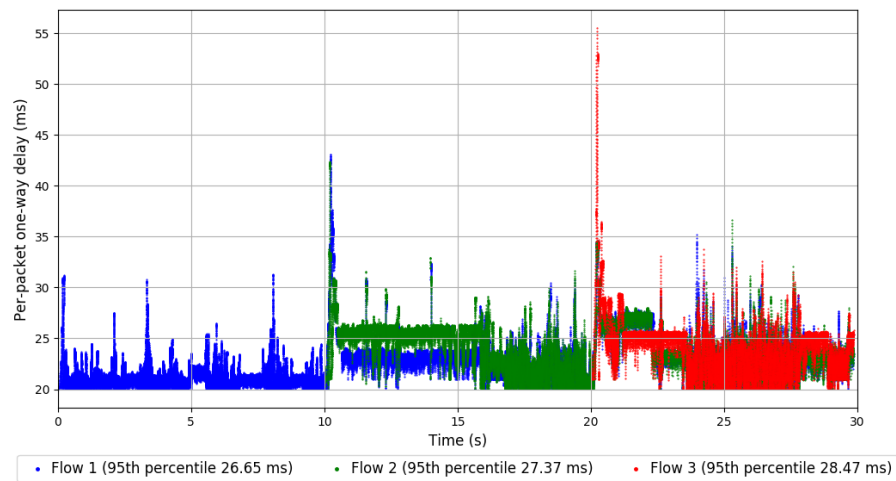
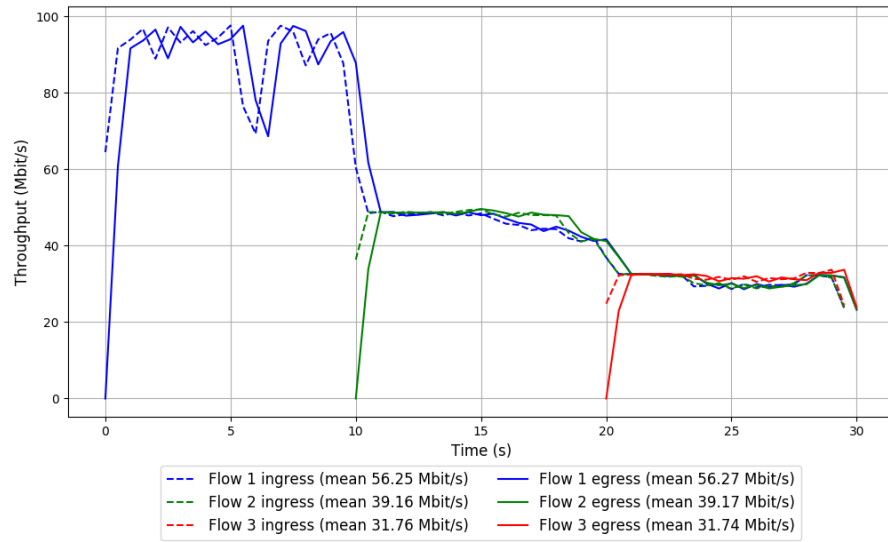


Run 1: Statistics of Indigo

Start at: 2018-06-19 09:08:41
End at: 2018-06-19 09:09:11
Local clock offset: 1.654 ms
Remote clock offset: -0.988 ms

Below is generated by plot.py at 2018-06-19 12:23:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.73 Mbit/s
95th percentile per-packet one-way delay: 27.192 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 56.27 Mbit/s
95th percentile per-packet one-way delay: 26.647 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 39.17 Mbit/s
95th percentile per-packet one-way delay: 27.370 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 28.472 ms
Loss rate: 0.33%

Run 1: Report of Indigo — Data Link

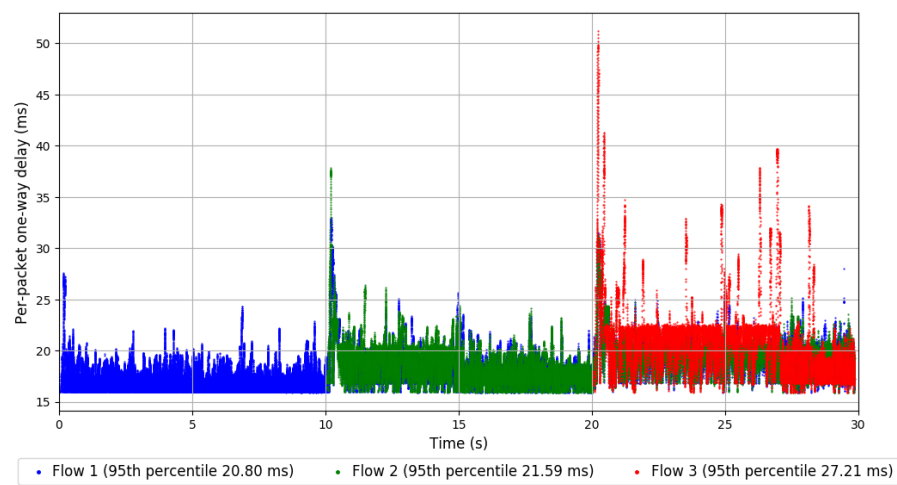
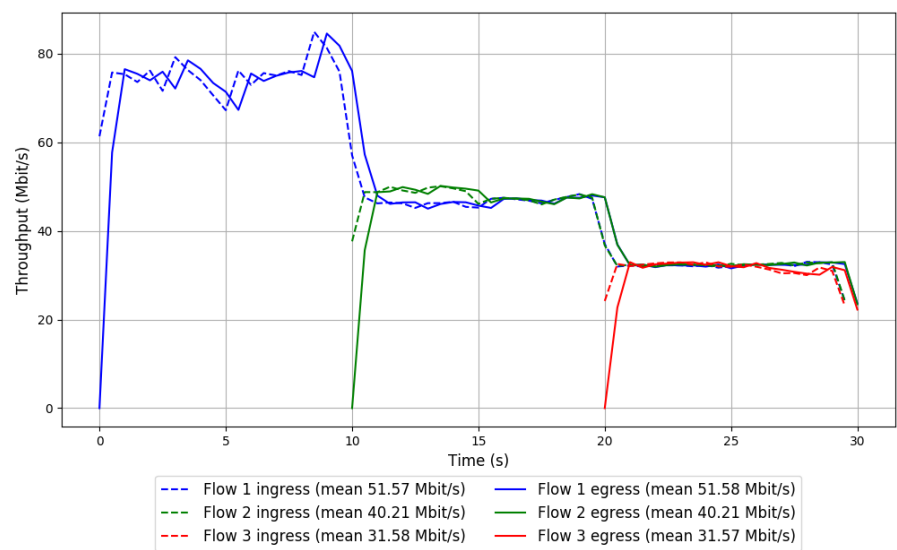


Run 2: Statistics of Indigo

Start at: 2018-06-19 09:27:31
End at: 2018-06-19 09:28:01
Local clock offset: -0.54 ms
Remote clock offset: -5.617 ms

Below is generated by plot.py at 2018-06-19 12:23:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.69 Mbit/s
95th percentile per-packet one-way delay: 22.048 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 51.58 Mbit/s
95th percentile per-packet one-way delay: 20.796 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.21 Mbit/s
95th percentile per-packet one-way delay: 21.592 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 27.211 ms
Loss rate: 0.29%

Run 2: Report of Indigo — Data Link

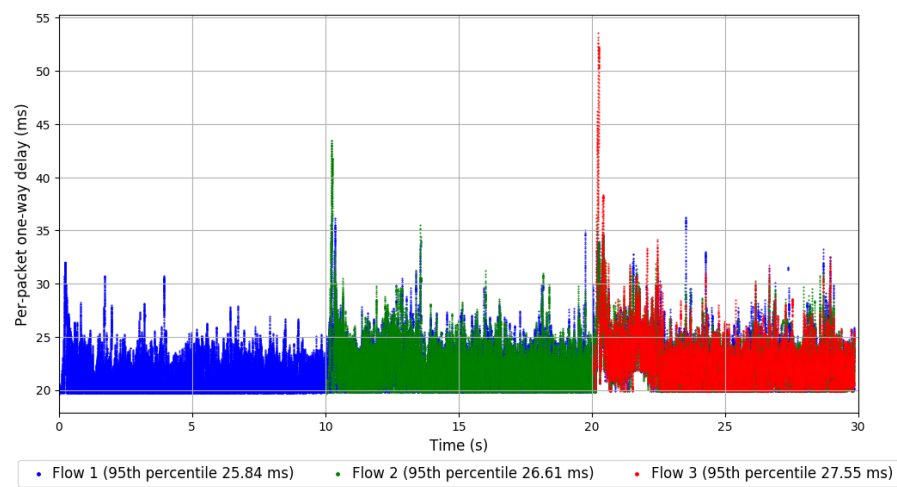
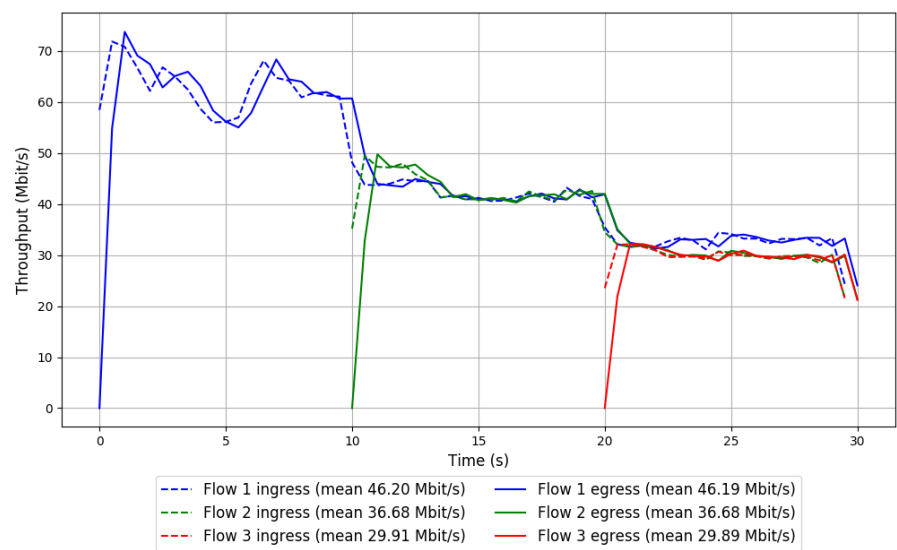


Run 3: Statistics of Indigo

Start at: 2018-06-19 09:46:31
End at: 2018-06-19 09:47:01
Local clock offset: 1.041 ms
Remote clock offset: -7.221 ms

Below is generated by plot.py at 2018-06-19 12:23:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.39 Mbit/s
95th percentile per-packet one-way delay: 26.307 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 46.19 Mbit/s
95th percentile per-packet one-way delay: 25.837 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 26.615 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 29.89 Mbit/s
95th percentile per-packet one-way delay: 27.555 ms
Loss rate: 0.31%

Run 3: Report of Indigo — Data Link

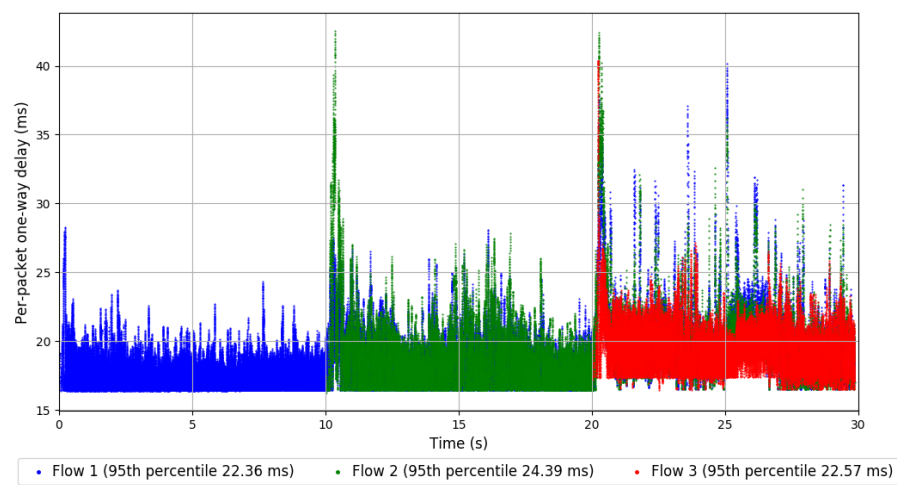
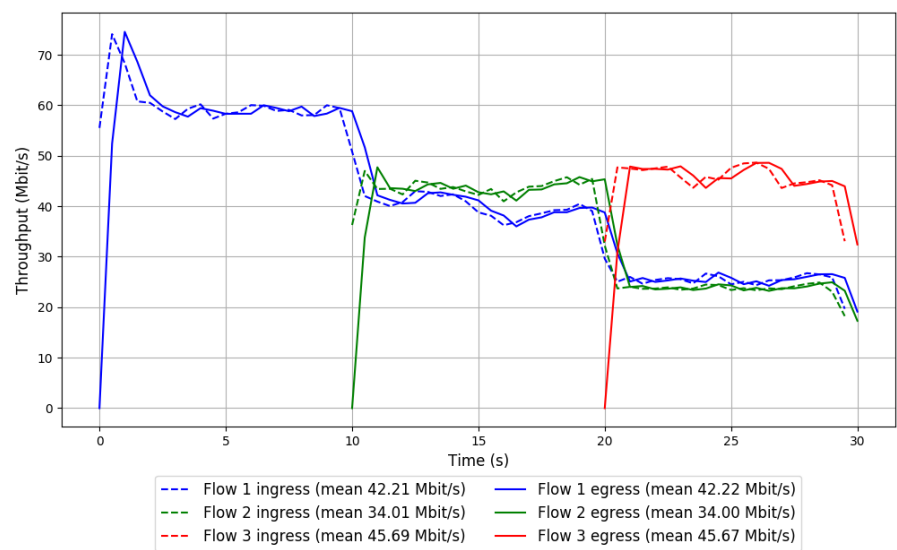


Run 4: Statistics of Indigo

Start at: 2018-06-19 10:05:47
End at: 2018-06-19 10:06:17
Local clock offset: 1.592 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-19 12:23:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.82 Mbit/s
95th percentile per-packet one-way delay: 22.888 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 42.22 Mbit/s
95th percentile per-packet one-way delay: 22.365 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 34.00 Mbit/s
95th percentile per-packet one-way delay: 24.388 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 45.67 Mbit/s
95th percentile per-packet one-way delay: 22.569 ms
Loss rate: 0.28%

Run 4: Report of Indigo — Data Link

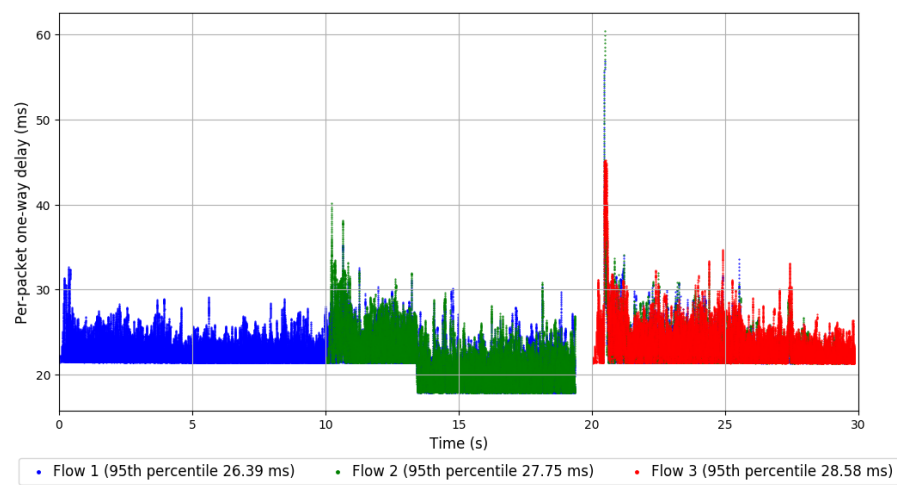
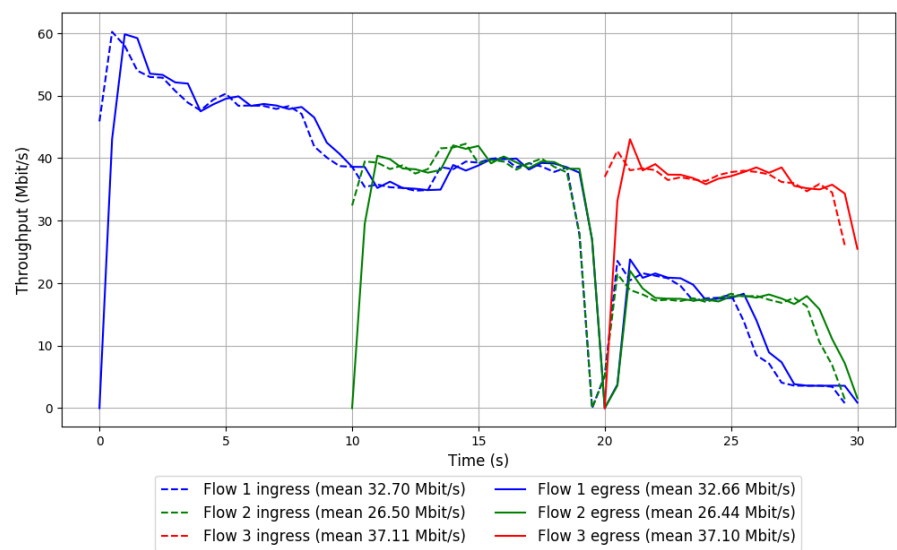


Run 5: Statistics of Indigo

Start at: 2018-06-19 10:25:04
End at: 2018-06-19 10:25:34
Local clock offset: 0.172 ms
Remote clock offset: -5.365 ms

Below is generated by plot.py at 2018-06-19 12:23:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.00 Mbit/s
95th percentile per-packet one-way delay: 27.212 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 26.395 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 26.44 Mbit/s
95th percentile per-packet one-way delay: 27.749 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 37.10 Mbit/s
95th percentile per-packet one-way delay: 28.581 ms
Loss rate: 0.33%

Run 5: Report of Indigo — Data Link

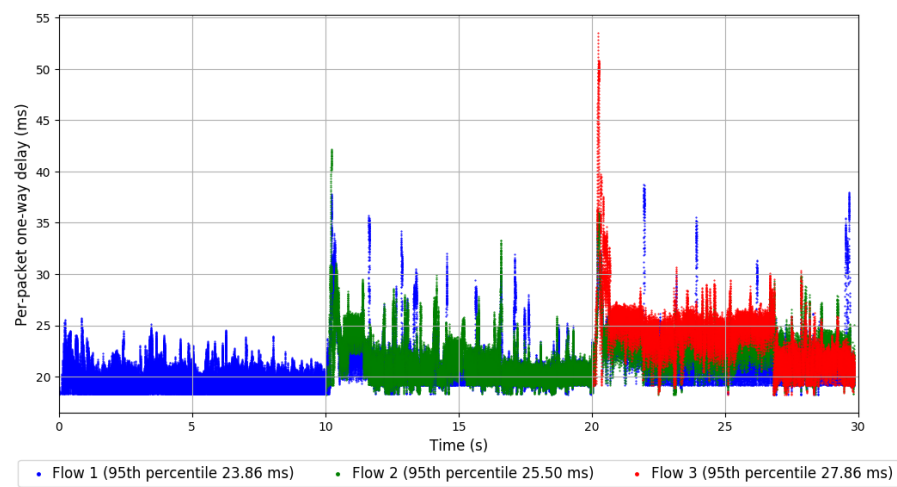
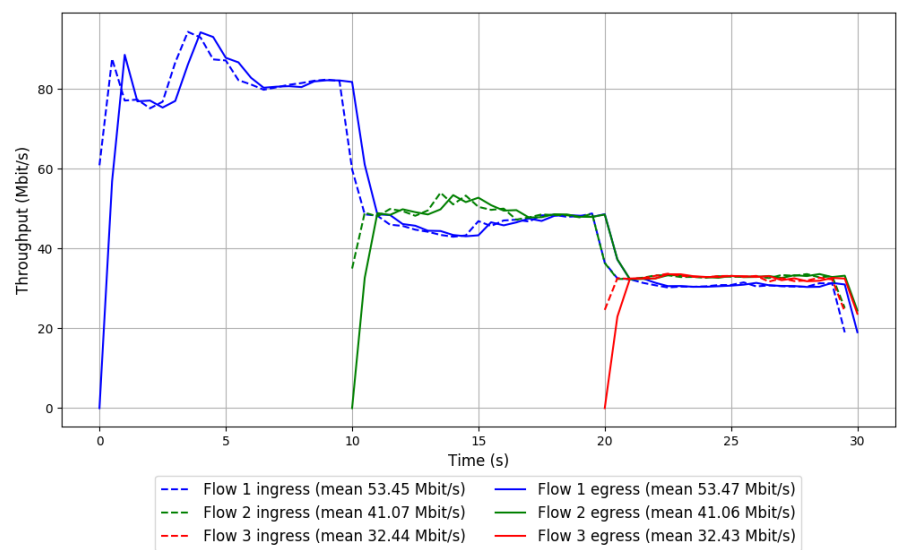


Run 6: Statistics of Indigo

Start at: 2018-06-19 10:44:14
End at: 2018-06-19 10:44:44
Local clock offset: 1.892 ms
Remote clock offset: -6.753 ms

Below is generated by plot.py at 2018-06-19 12:23:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 25.623 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 53.47 Mbit/s
95th percentile per-packet one-way delay: 23.865 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 25.502 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.43 Mbit/s
95th percentile per-packet one-way delay: 27.864 ms
Loss rate: 0.30%

Run 6: Report of Indigo — Data Link

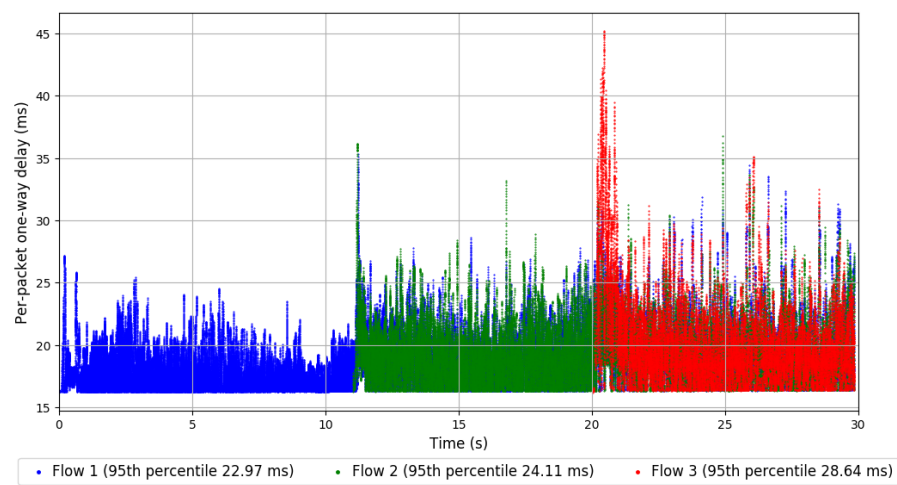
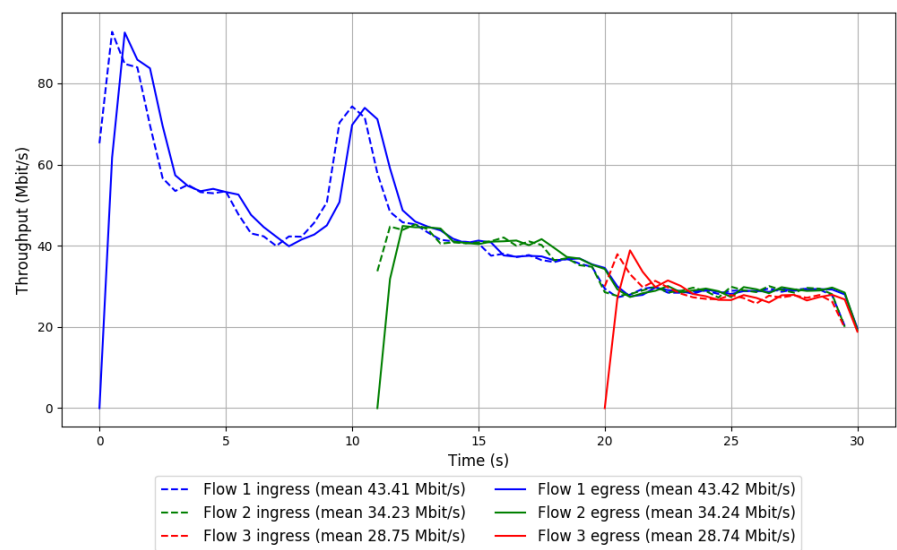


Run 7: Statistics of Indigo

Start at: 2018-06-19 11:03:30
End at: 2018-06-19 11:04:00
Local clock offset: 2.985 ms
Remote clock offset: -3.831 ms

Below is generated by plot.py at 2018-06-19 12:24:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.47 Mbit/s
95th percentile per-packet one-way delay: 24.051 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 43.42 Mbit/s
95th percentile per-packet one-way delay: 22.970 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 34.24 Mbit/s
95th percentile per-packet one-way delay: 24.113 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 28.74 Mbit/s
95th percentile per-packet one-way delay: 28.635 ms
Loss rate: 0.29%

Run 7: Report of Indigo — Data Link

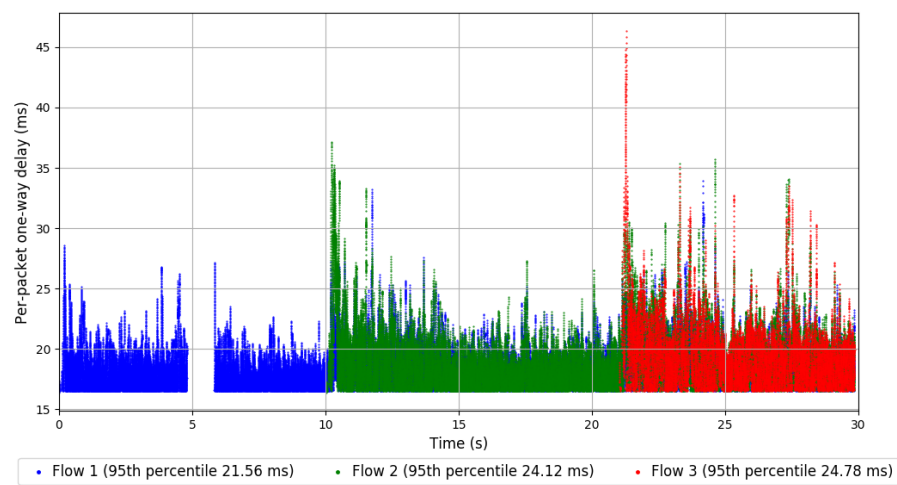
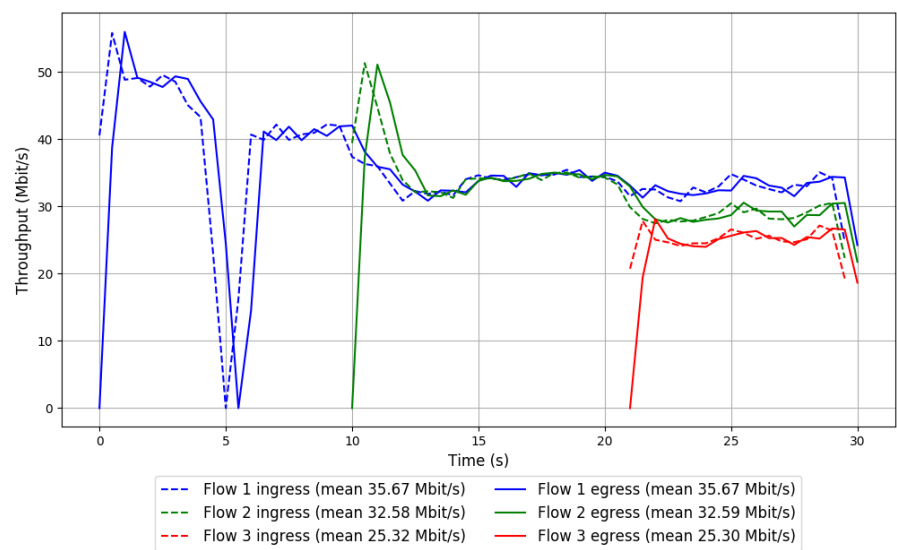


Run 8: Statistics of Indigo

Start at: 2018-06-19 11:22:38
End at: 2018-06-19 11:23:08
Local clock offset: 1.763 ms
Remote clock offset: -3.248 ms

Below is generated by plot.py at 2018-06-19 12:24:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 64.79 Mbit/s
95th percentile per-packet one-way delay: 22.842 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 21.560 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 32.59 Mbit/s
95th percentile per-packet one-way delay: 24.123 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 25.30 Mbit/s
95th percentile per-packet one-way delay: 24.783 ms
Loss rate: 0.36%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-19 11:41:37

End at: 2018-06-19 11:42:07

Local clock offset: 0.076 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-06-19 12:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.65 Mbit/s

95th percentile per-packet one-way delay: 18.513 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 59.26 Mbit/s

95th percentile per-packet one-way delay: 18.435 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.35 Mbit/s

95th percentile per-packet one-way delay: 18.687 ms

Loss rate: 0.12%

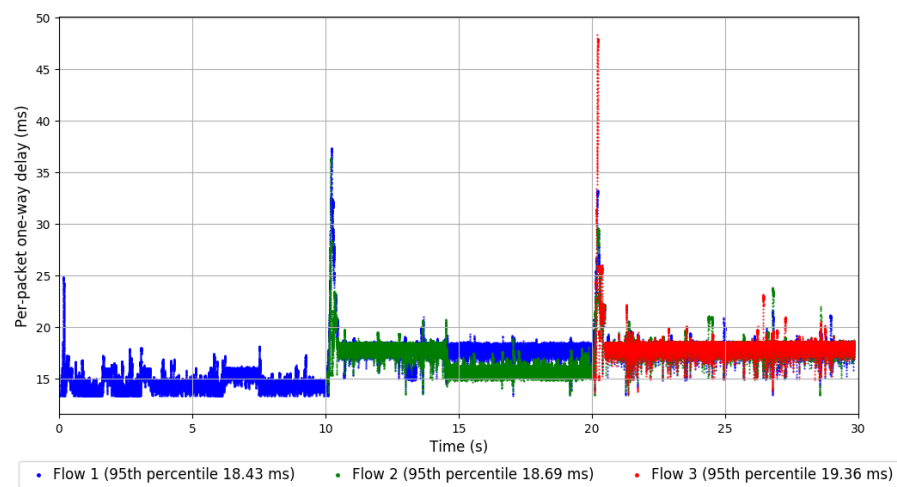
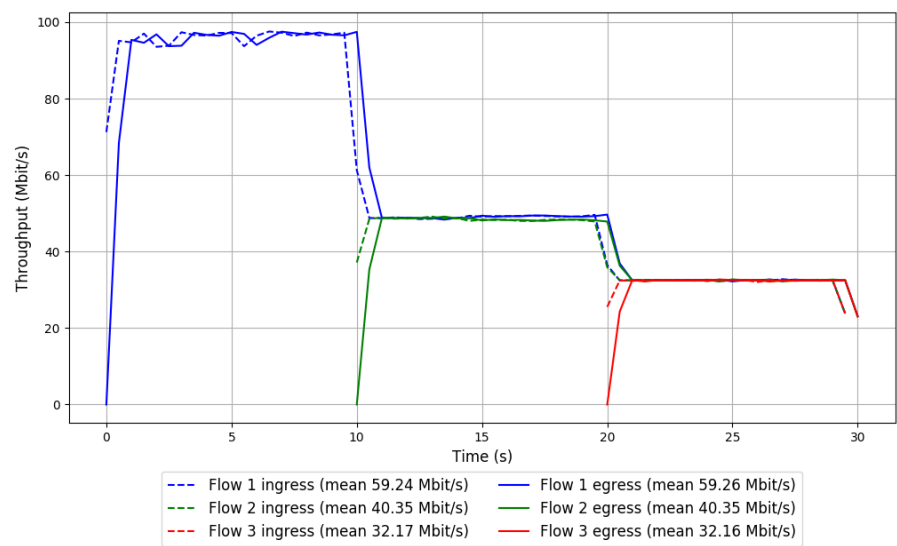
-- Flow 3:

Average throughput: 32.16 Mbit/s

95th percentile per-packet one-way delay: 19.360 ms

Loss rate: 0.31%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-19 12:00:44

End at: 2018-06-19 12:01:14

Local clock offset: 3.16 ms

Remote clock offset: 0.817 ms

Below is generated by plot.py at 2018-06-19 12:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 25.069 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 23.401 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.29 Mbit/s

95th percentile per-packet one-way delay: 24.039 ms

Loss rate: 0.12%

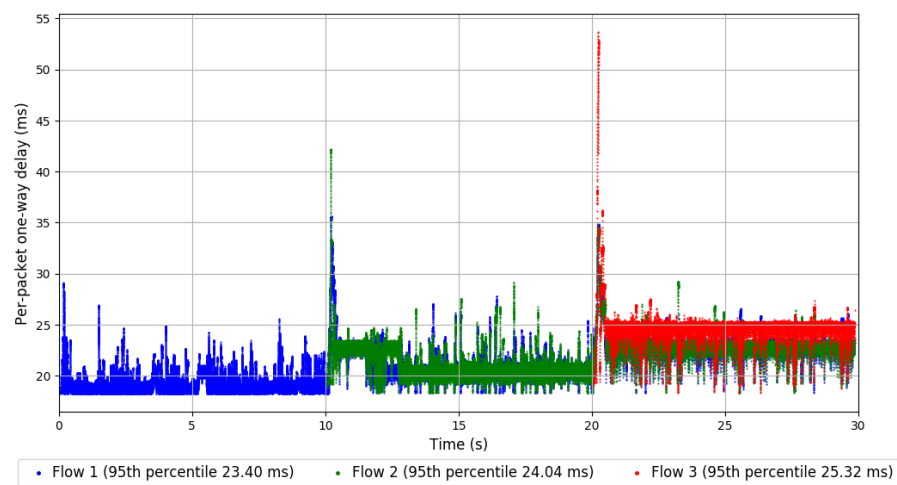
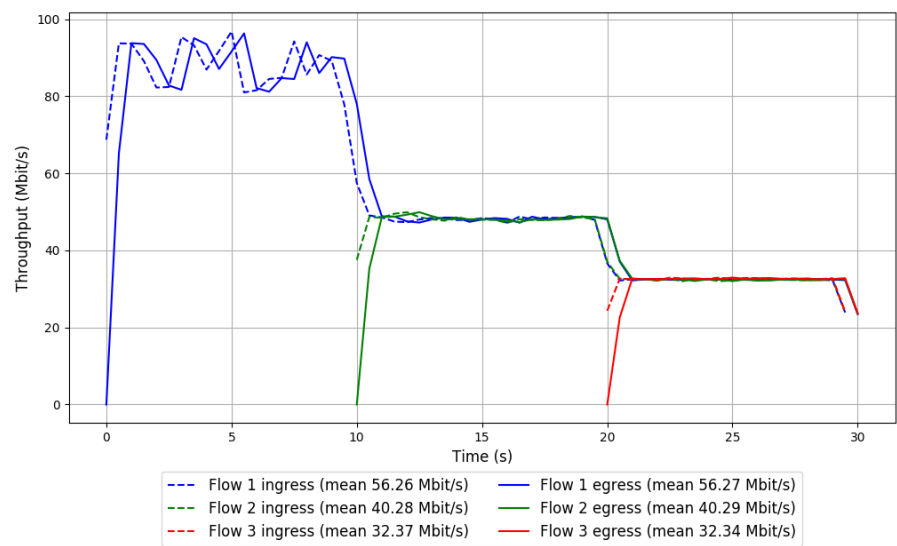
-- Flow 3:

Average throughput: 32.34 Mbit/s

95th percentile per-packet one-way delay: 25.319 ms

Loss rate: 0.32%

Run 10: Report of Indigo — Data Link

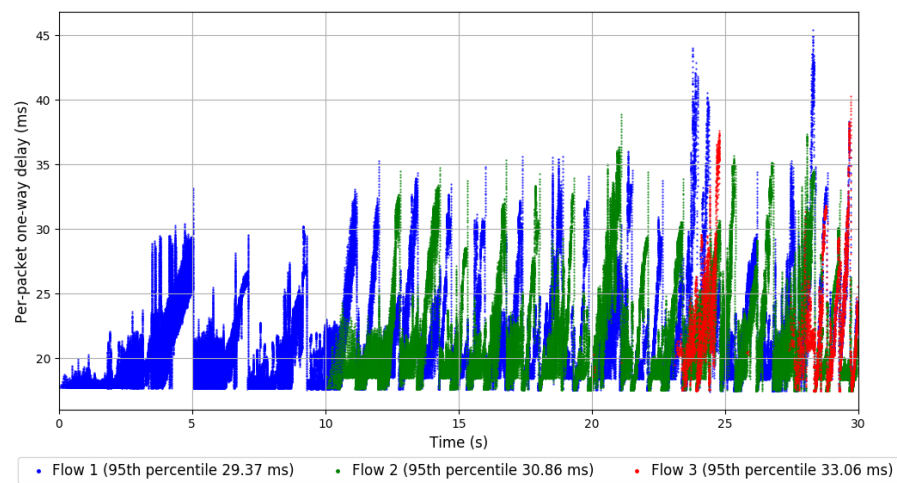
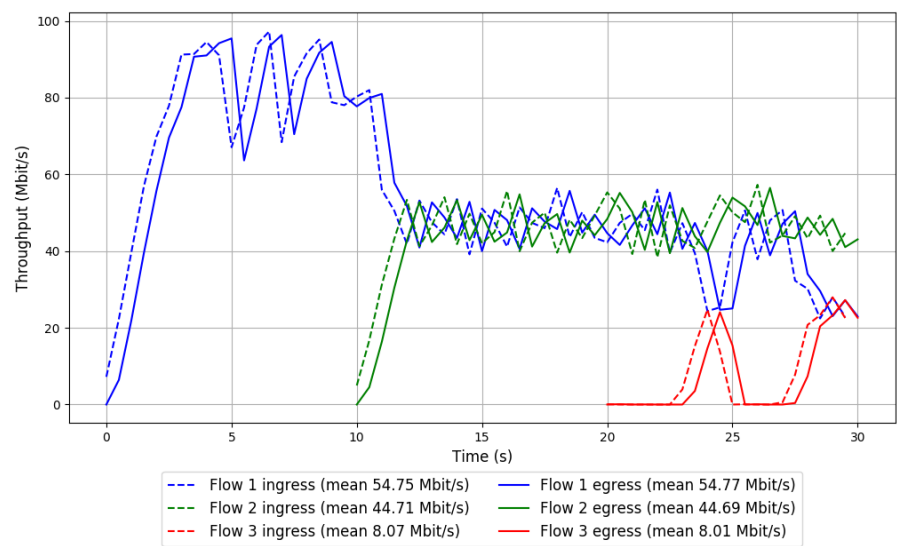


Run 1: Statistics of LEDBAT

Start at: 2018-06-19 09:12:11
End at: 2018-06-19 09:12:41
Local clock offset: 0.131 ms
Remote clock offset: -0.728 ms

Below is generated by plot.py at 2018-06-19 12:24:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.18 Mbit/s
95th percentile per-packet one-way delay: 30.045 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 54.77 Mbit/s
95th percentile per-packet one-way delay: 29.367 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 30.860 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 33.064 ms
Loss rate: 1.05%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-19 09:31:00

End at: 2018-06-19 09:31:30

Local clock offset: 2.238 ms

Remote clock offset: -5.15 ms

Below is generated by plot.py at 2018-06-19 12:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.69 Mbit/s

95th percentile per-packet one-way delay: 30.718 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 47.31 Mbit/s

95th percentile per-packet one-way delay: 29.357 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 38.62 Mbit/s

95th percentile per-packet one-way delay: 31.485 ms

Loss rate: 0.20%

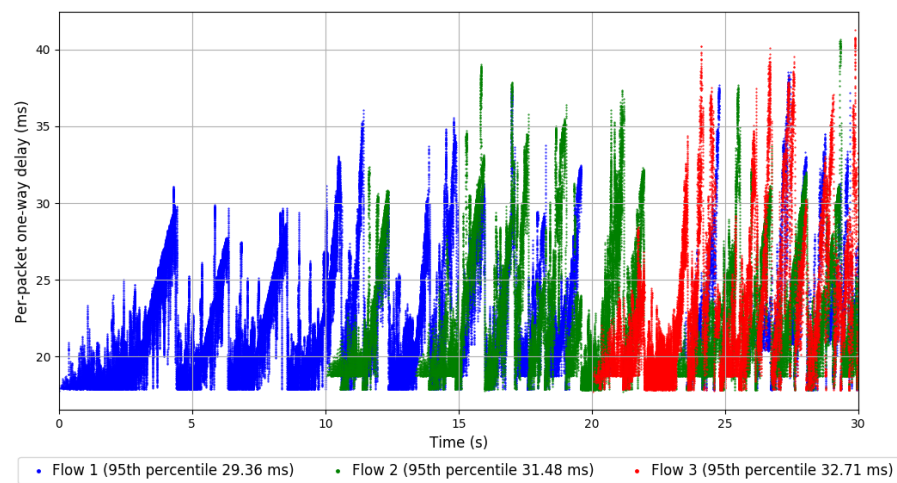
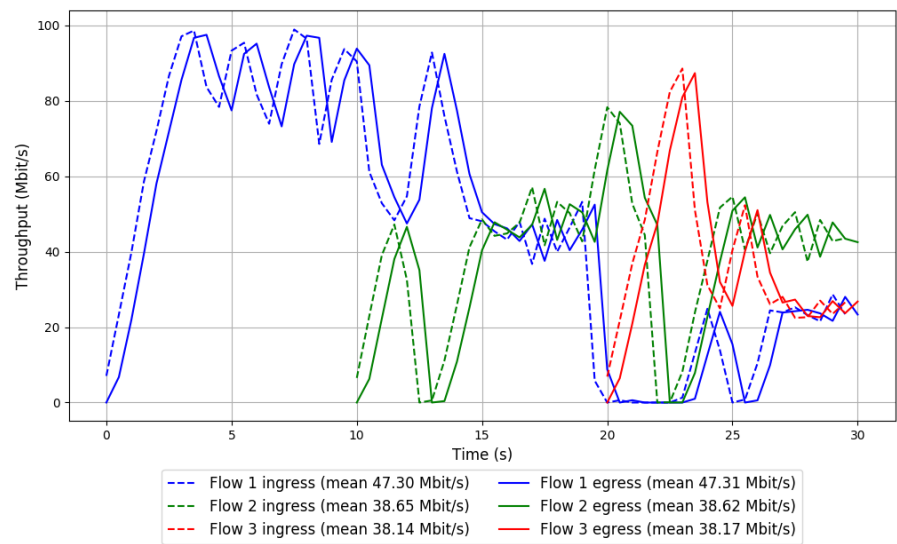
-- Flow 3:

Average throughput: 38.17 Mbit/s

95th percentile per-packet one-way delay: 32.714 ms

Loss rate: 0.18%

Run 2: Report of LEDBAT — Data Link

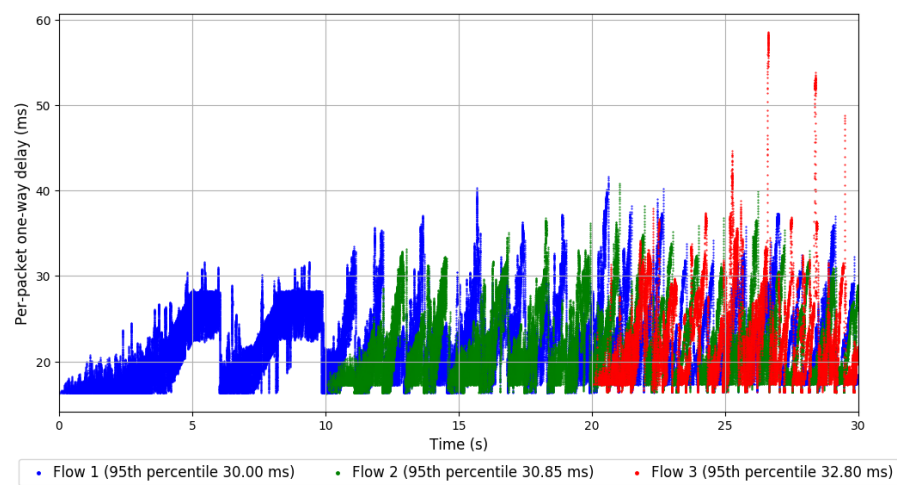
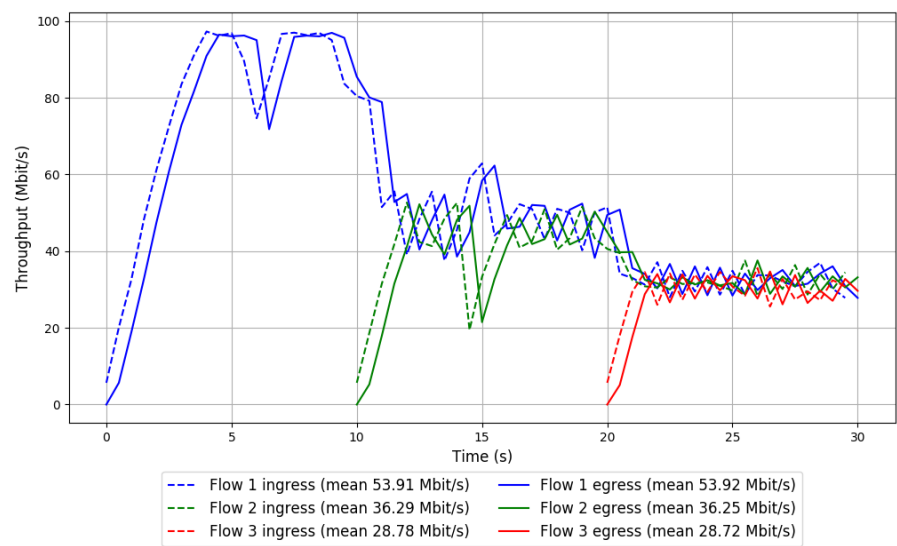


Run 3: Statistics of LEDBAT

Start at: 2018-06-19 09:50:03
End at: 2018-06-19 09:50:33
Local clock offset: -1.743 ms
Remote clock offset: -5.508 ms

Below is generated by plot.py at 2018-06-19 12:24:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.58 Mbit/s
95th percentile per-packet one-way delay: 30.646 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 53.92 Mbit/s
95th percentile per-packet one-way delay: 30.002 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.25 Mbit/s
95th percentile per-packet one-way delay: 30.850 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 32.796 ms
Loss rate: 0.45%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-19 10:09:35

End at: 2018-06-19 10:10:05

Local clock offset: 0.104 ms

Remote clock offset: -4.38 ms

Below is generated by plot.py at 2018-06-19 12:25:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.56 Mbit/s

95th percentile per-packet one-way delay: 32.684 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 50.52 Mbit/s

95th percentile per-packet one-way delay: 32.027 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 36.96 Mbit/s

95th percentile per-packet one-way delay: 33.093 ms

Loss rate: 0.14%

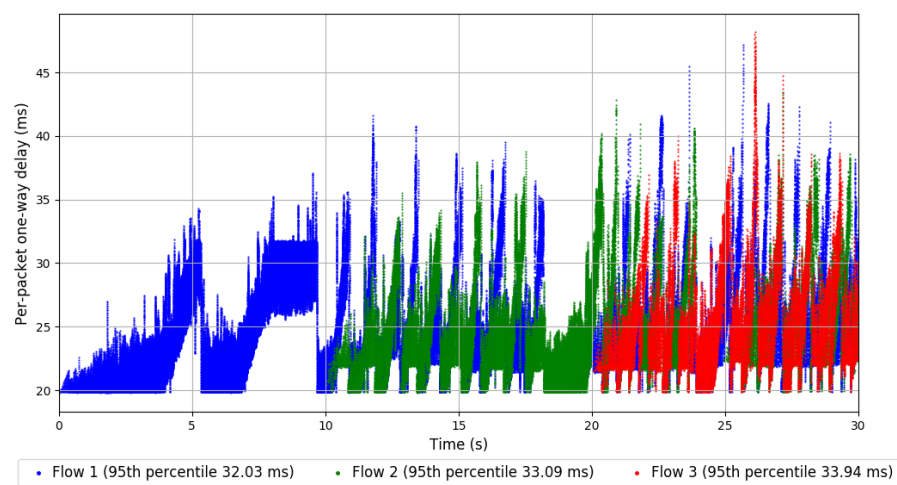
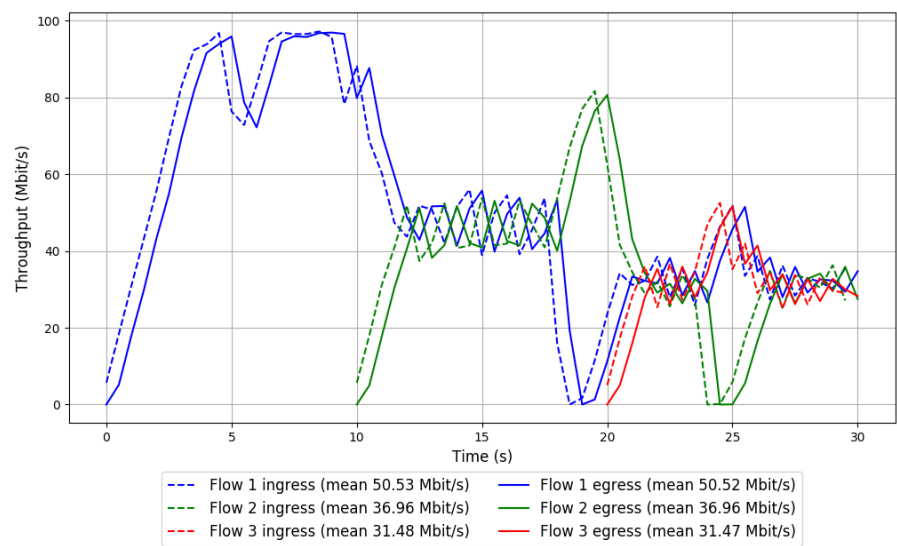
-- Flow 3:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 33.939 ms

Loss rate: 0.36%

Run 4: Report of LEDBAT — Data Link

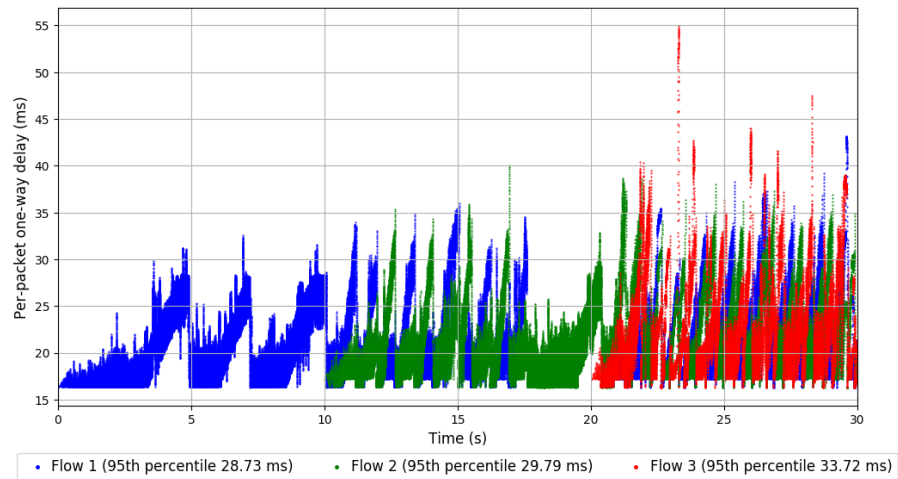
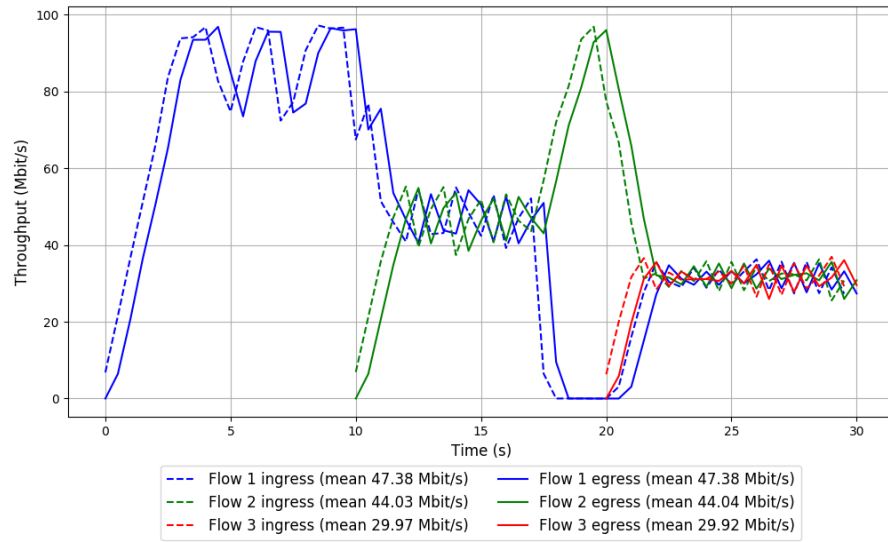


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 10:28:49
End at: 2018-06-19 10:29:19
Local clock offset: 0.294 ms
Remote clock offset: -4.512 ms

Below is generated by plot.py at 2018-06-19 12:25:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 29.860 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 47.38 Mbit/s
95th percentile per-packet one-way delay: 28.731 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 44.04 Mbit/s
95th percentile per-packet one-way delay: 29.788 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 29.92 Mbit/s
95th percentile per-packet one-way delay: 33.715 ms
Loss rate: 0.39%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-19 10:48:04

End at: 2018-06-19 10:48:34

Local clock offset: -1.045 ms

Remote clock offset: -7.7 ms

Below is generated by plot.py at 2018-06-19 12:25:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.03 Mbit/s

95th percentile per-packet one-way delay: 29.135 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 51.55 Mbit/s

95th percentile per-packet one-way delay: 28.813 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 37.74 Mbit/s

95th percentile per-packet one-way delay: 29.102 ms

Loss rate: 0.18%

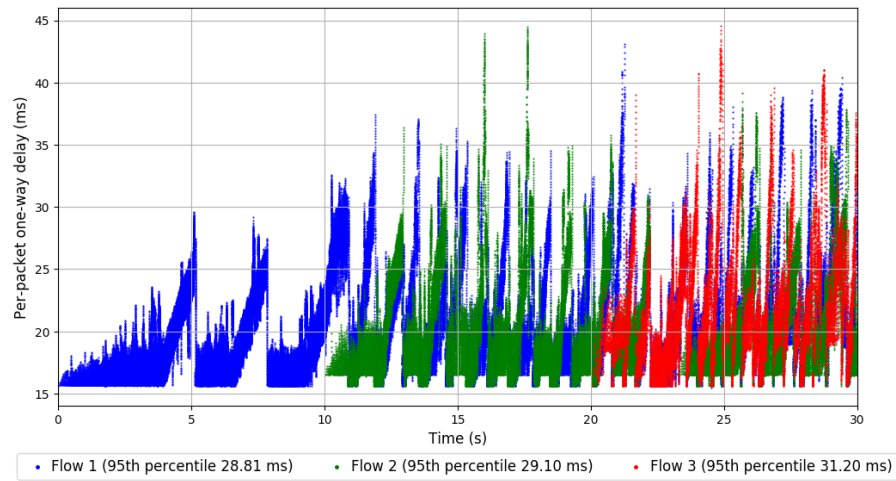
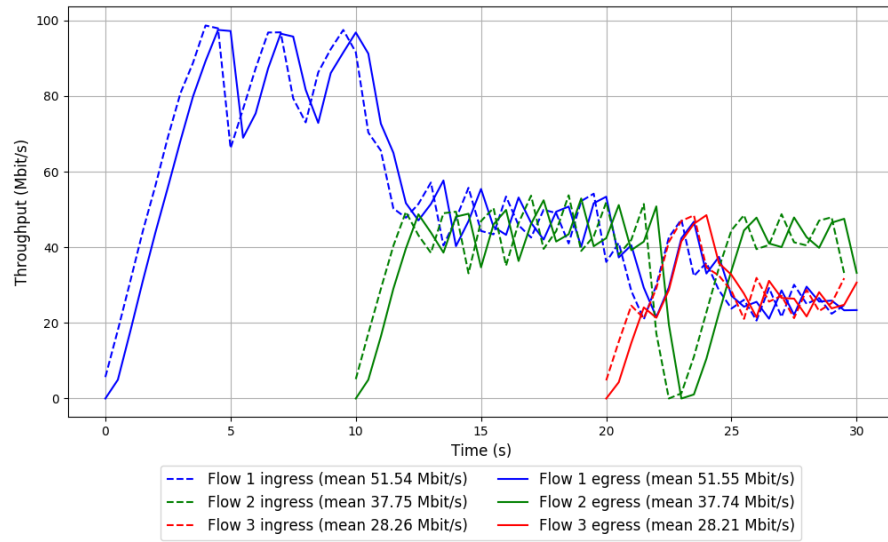
-- Flow 3:

Average throughput: 28.21 Mbit/s

95th percentile per-packet one-way delay: 31.195 ms

Loss rate: 0.49%

Run 6: Report of LEDBAT — Data Link

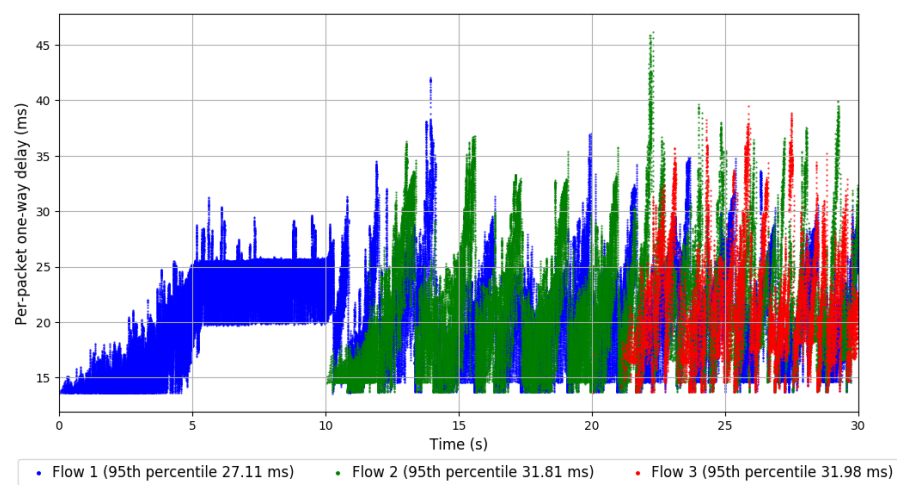
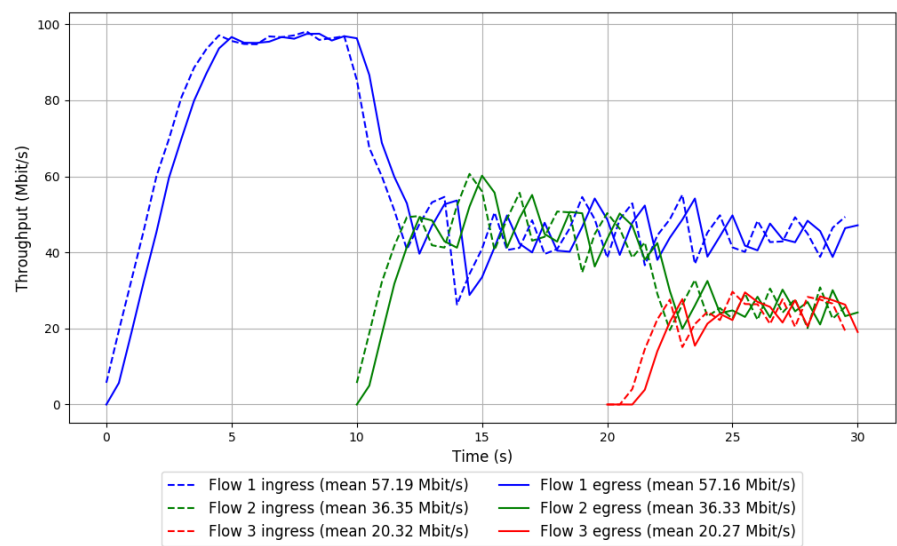


Run 7: Statistics of LEDBAT

Start at: 2018-06-19 11:07:04
End at: 2018-06-19 11:07:34
Local clock offset: -0.324 ms
Remote clock offset: -3.737 ms

Below is generated by plot.py at 2018-06-19 12:25:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 29.238 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 27.110 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 31.807 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 31.983 ms
Loss rate: 0.49%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-19 11:26:13

End at: 2018-06-19 11:26:43

Local clock offset: 1.833 ms

Remote clock offset: -3.47 ms

Below is generated by plot.py at 2018-06-19 12:25:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.05 Mbit/s

95th percentile per-packet one-way delay: 30.373 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 56.79 Mbit/s

95th percentile per-packet one-way delay: 28.671 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 30.31 Mbit/s

95th percentile per-packet one-way delay: 33.528 ms

Loss rate: 0.16%

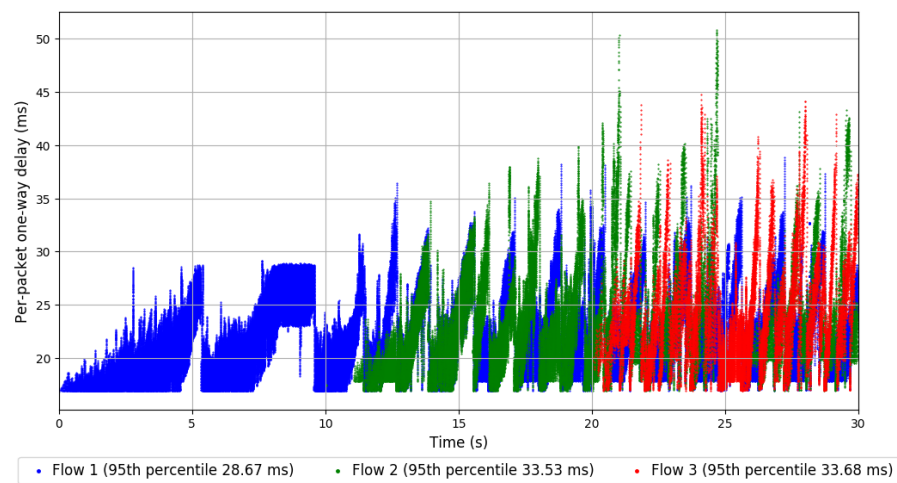
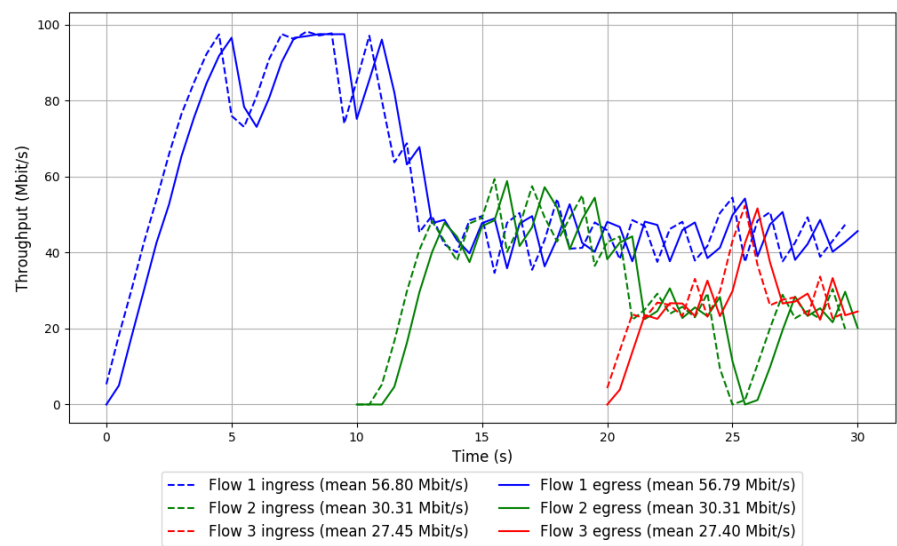
-- Flow 3:

Average throughput: 27.40 Mbit/s

95th percentile per-packet one-way delay: 33.679 ms

Loss rate: 0.18%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-19 11:45:13

End at: 2018-06-19 11:45:43

Local clock offset: 3.044 ms

Remote clock offset: 1.936 ms

Below is generated by plot.py at 2018-06-19 12:25:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 27.055 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 52.32 Mbit/s

95th percentile per-packet one-way delay: 26.177 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 28.068 ms

Loss rate: 0.19%

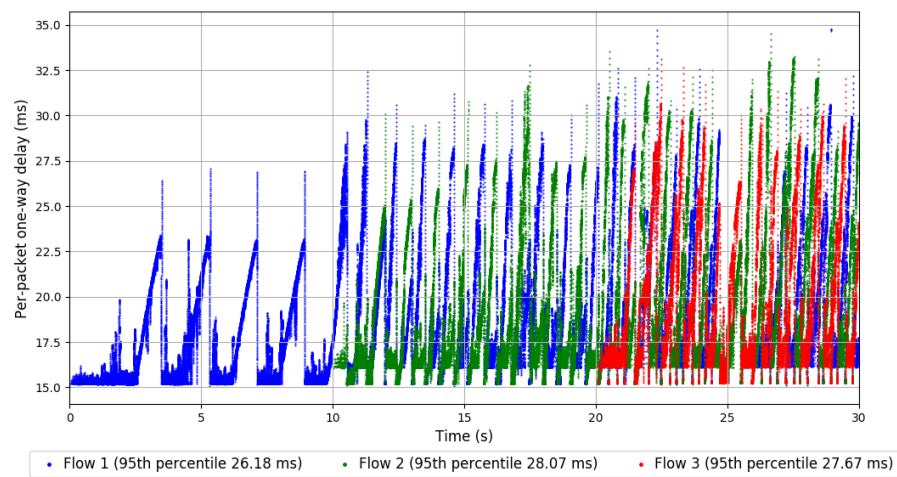
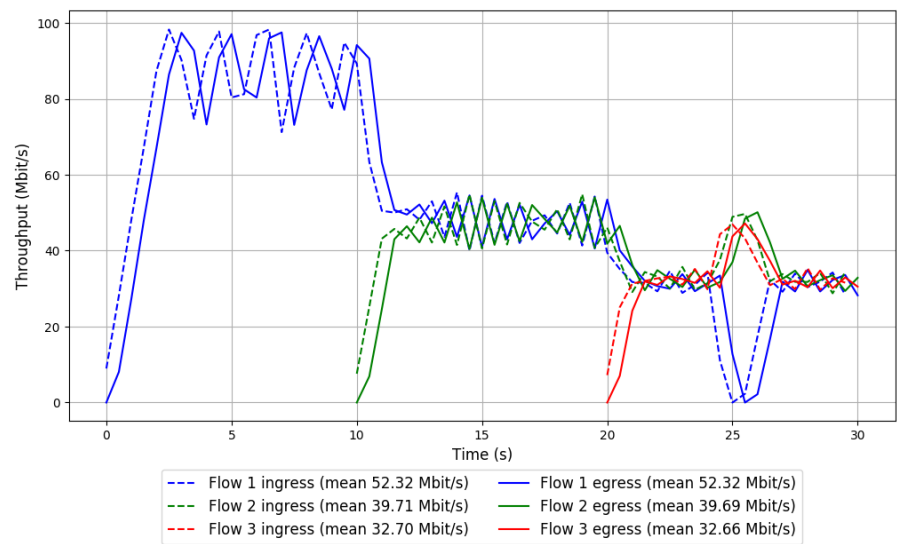
-- Flow 3:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 27.668 ms

Loss rate: 0.37%

Run 9: Report of LEDBAT — Data Link

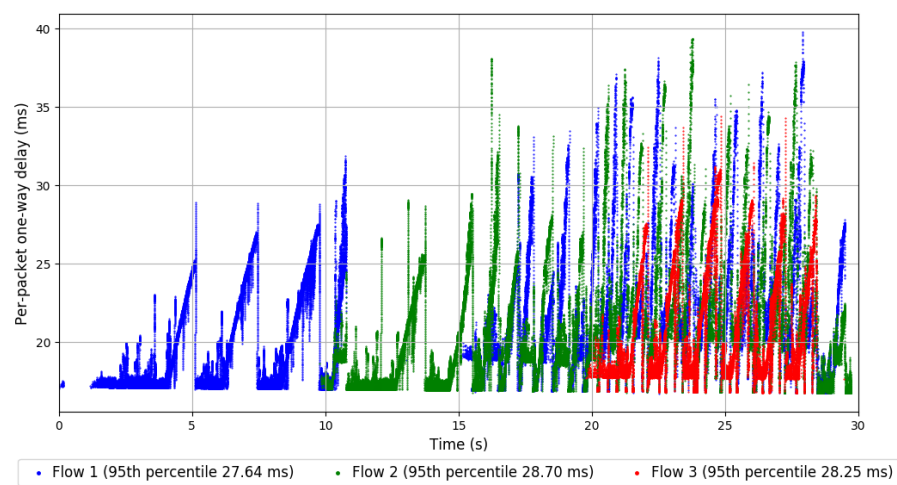
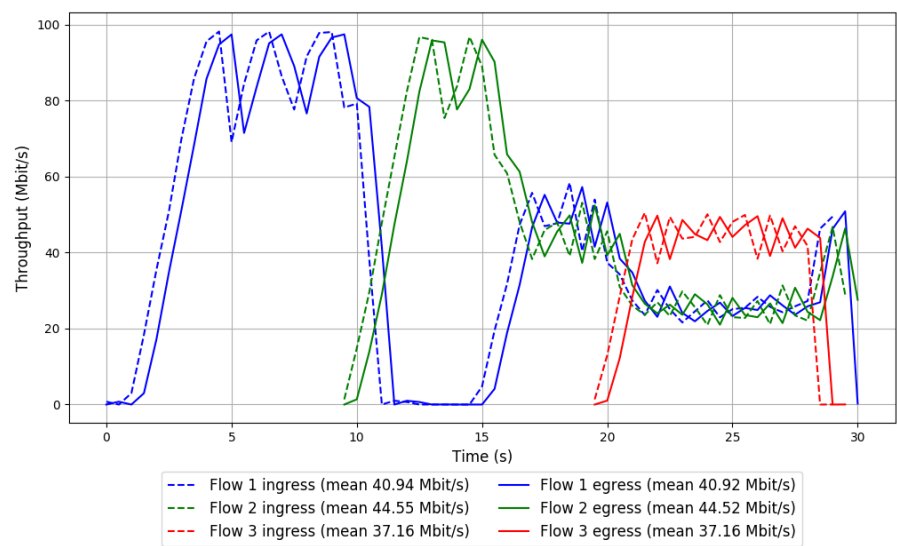


Run 10: Statistics of LEDBAT

Start at: 2018-06-19 12:04:20
End at: 2018-06-19 12:04:50
Local clock offset: 1.095 ms
Remote clock offset: -0.375 ms

Below is generated by plot.py at 2018-06-19 12:25:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.61 Mbit/s
95th percentile per-packet one-way delay: 28.169 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 27.644 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 28.699 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 37.16 Mbit/s
95th percentile per-packet one-way delay: 28.252 ms
Loss rate: 0.02%

Run 10: Report of LEDBAT — Data Link

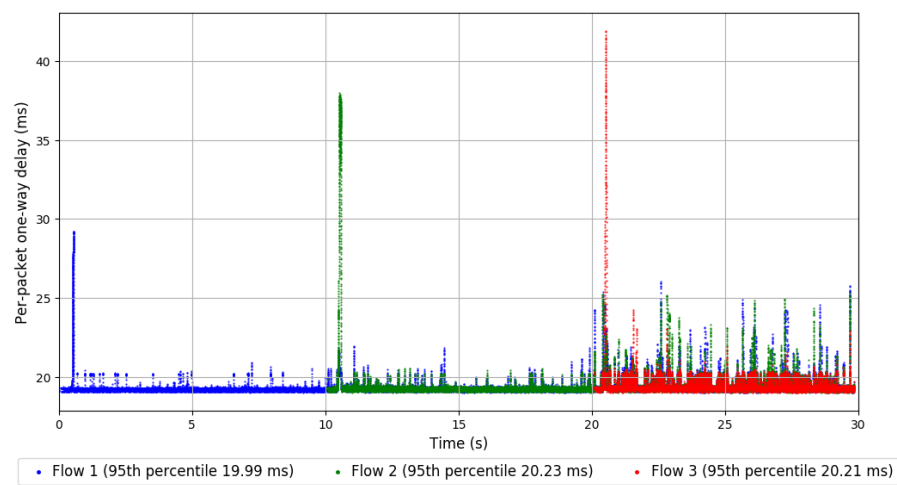
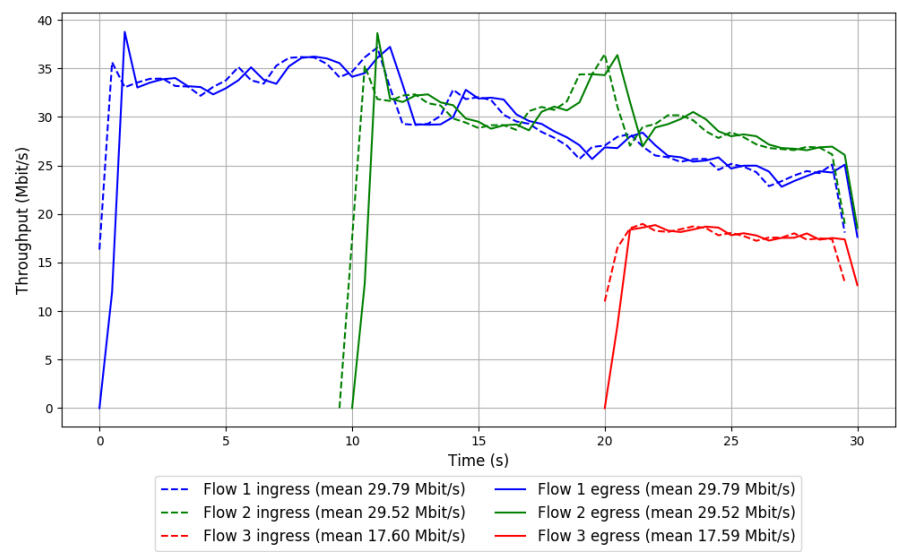


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 09:11:04
End at: 2018-06-19 09:11:34
Local clock offset: 0.835 ms
Remote clock offset: -1.153 ms

Below is generated by plot.py at 2018-06-19 12:25:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.21 Mbit/s
95th percentile per-packet one-way delay: 20.140 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 29.79 Mbit/s
95th percentile per-packet one-way delay: 19.986 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 20.231 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 17.59 Mbit/s
95th percentile per-packet one-way delay: 20.215 ms
Loss rate: 0.29%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 09:29:51

End at: 2018-06-19 09:30:21

Local clock offset: 1.984 ms

Remote clock offset: -6.13 ms

Below is generated by plot.py at 2018-06-19 12:26:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 31.323 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 83.57 Mbit/s

95th percentile per-packet one-way delay: 31.344 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 5.06 Mbit/s

95th percentile per-packet one-way delay: 21.898 ms

Loss rate: 0.16%

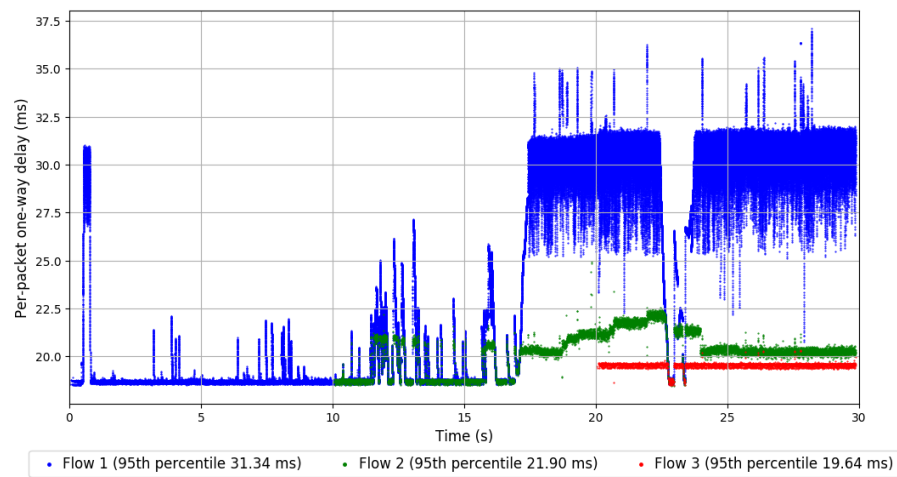
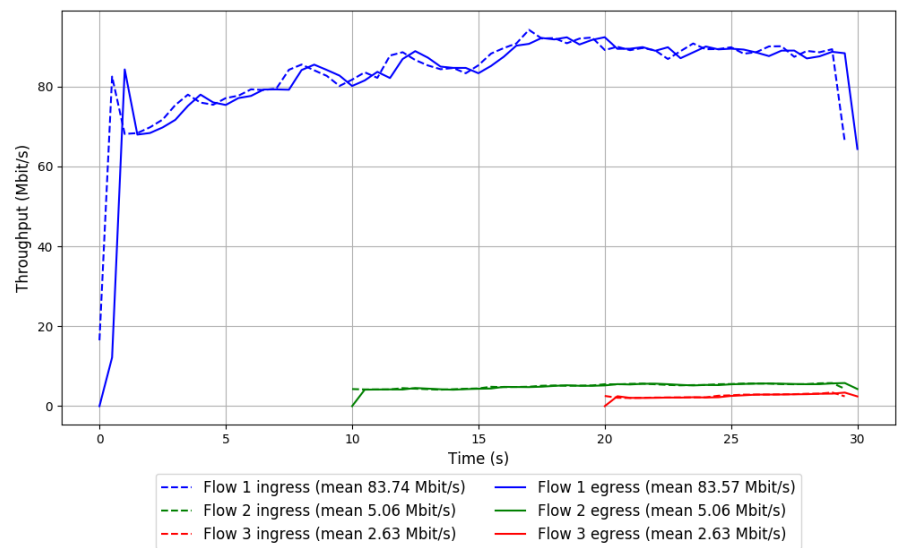
-- Flow 3:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 19.639 ms

Loss rate: 0.33%

Run 2: Report of PCC-Allegro — Data Link

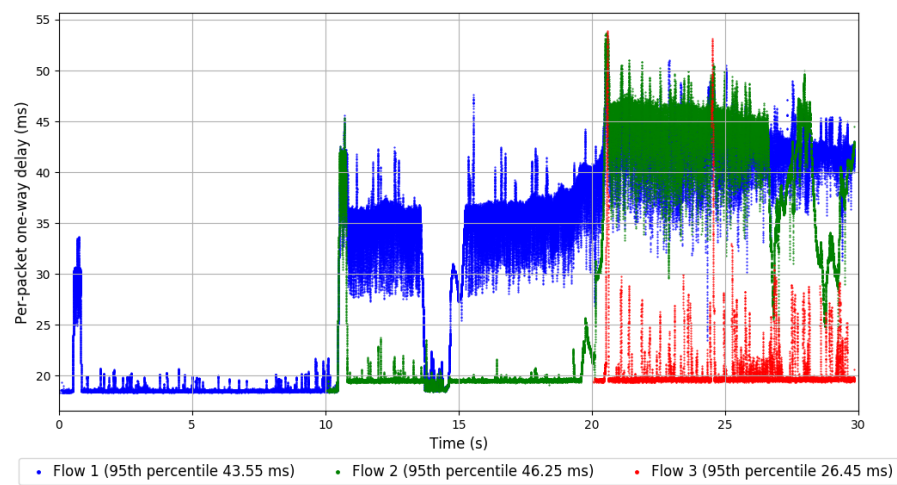
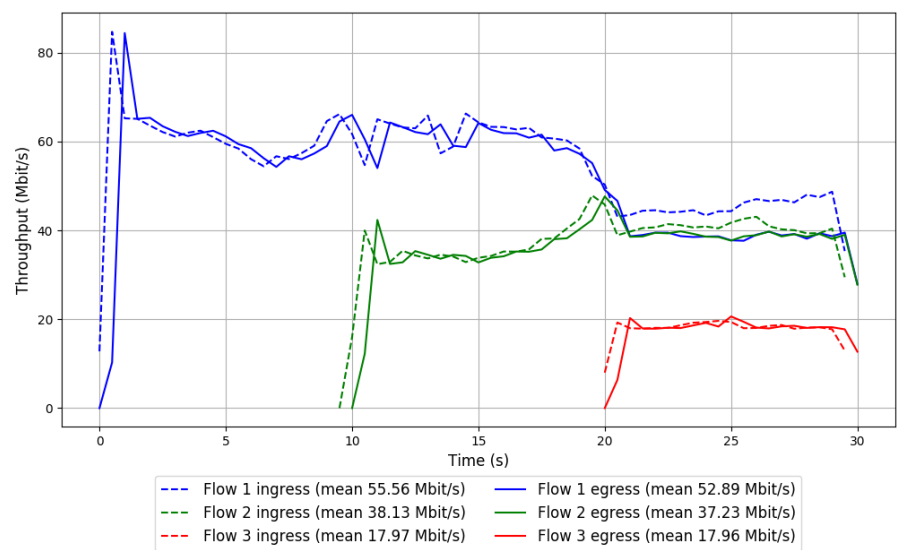


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 09:48:54
End at: 2018-06-19 09:49:24
Local clock offset: 1.598 ms
Remote clock offset: -4.682 ms

Below is generated by plot.py at 2018-06-19 12:26:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.55 Mbit/s
95th percentile per-packet one-way delay: 44.788 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 43.547 ms
Loss rate: 4.92%
-- Flow 2:
Average throughput: 37.23 Mbit/s
95th percentile per-packet one-way delay: 46.252 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 17.96 Mbit/s
95th percentile per-packet one-way delay: 26.447 ms
Loss rate: 0.28%

Run 3: Report of PCC-Allegro — Data Link

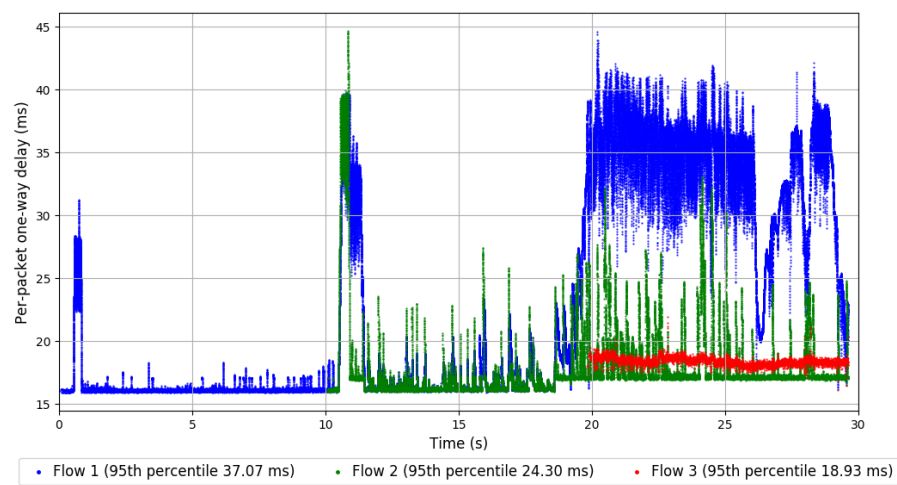
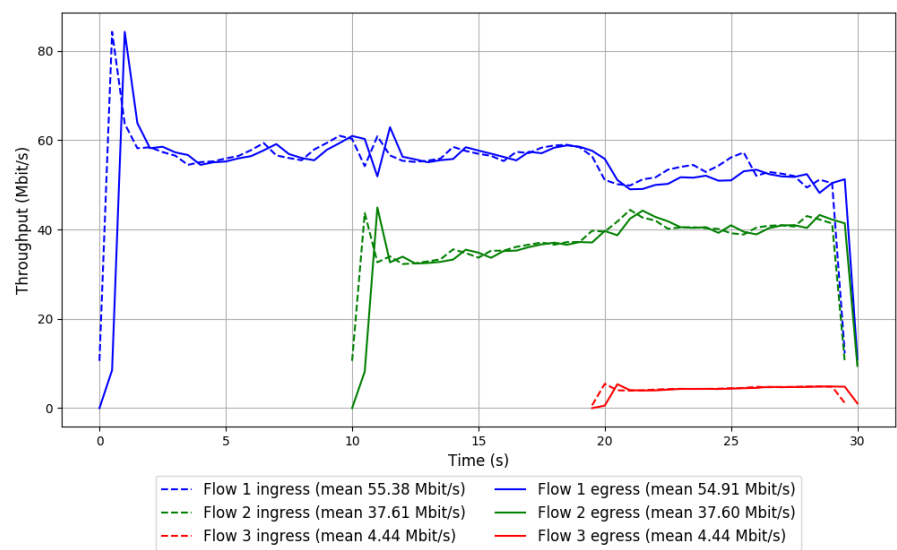


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 10:08:26
End at: 2018-06-19 10:08:56
Local clock offset: -0.871 ms
Remote clock offset: -1.734 ms

```
# Below is generated by plot.py at 2018-06-19 12:26:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 36.516 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 54.91 Mbit/s
95th percentile per-packet one-way delay: 37.074 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 37.60 Mbit/s
95th percentile per-packet one-way delay: 24.296 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 18.930 ms
Loss rate: 0.30%
```


Run 4: Report of PCC-Allegro — Data Link

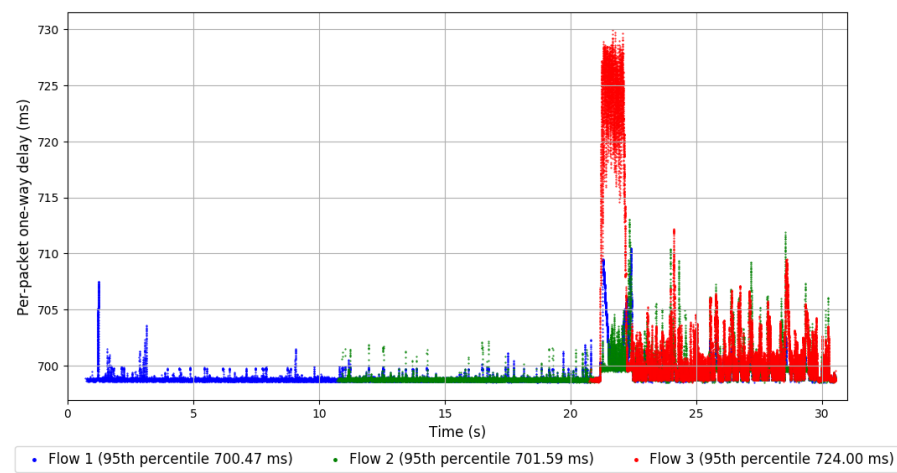
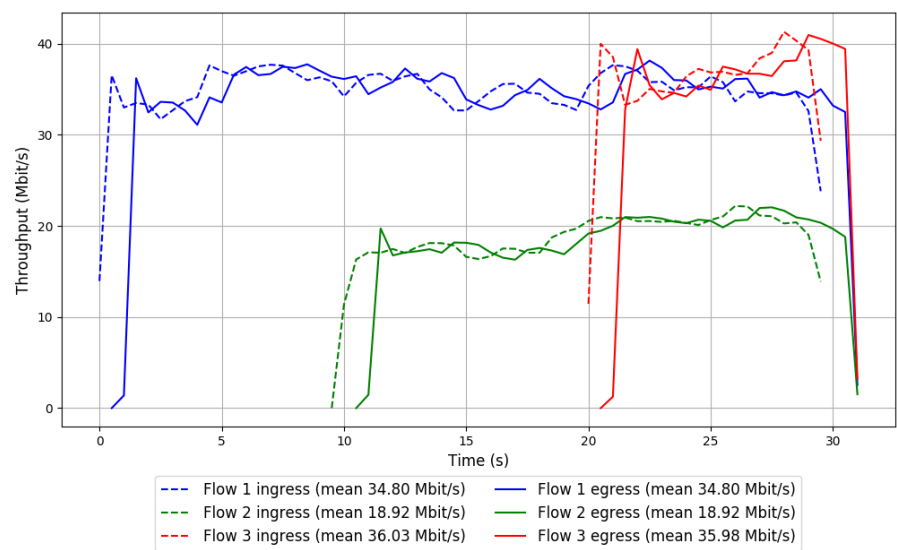


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 10:27:42
End at: 2018-06-19 10:28:12
Local clock offset: 0.457 ms
Remote clock offset: -686.56 ms

Below is generated by plot.py at 2018-06-19 12:26:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 703.800 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 34.80 Mbit/s
95th percentile per-packet one-way delay: 700.474 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 18.92 Mbit/s
95th percentile per-packet one-way delay: 701.590 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 35.98 Mbit/s
95th percentile per-packet one-way delay: 723.999 ms
Loss rate: 0.41%

Run 5: Report of PCC-Allegro — Data Link

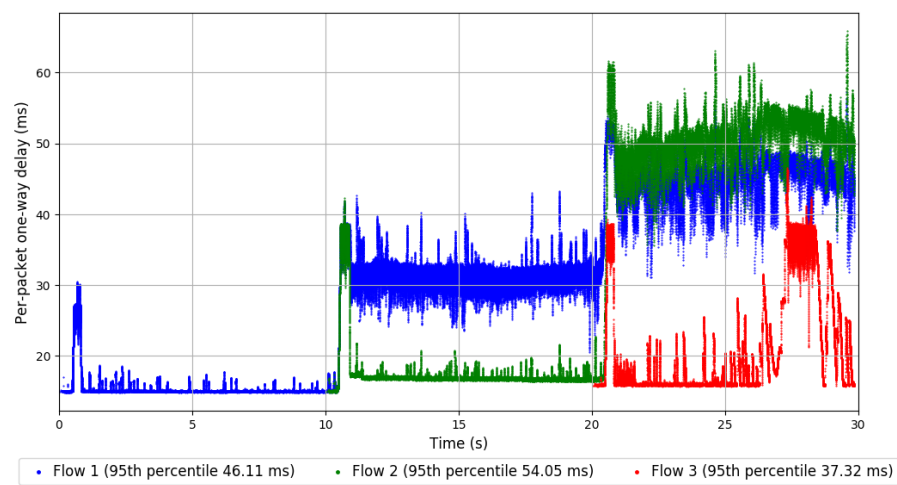
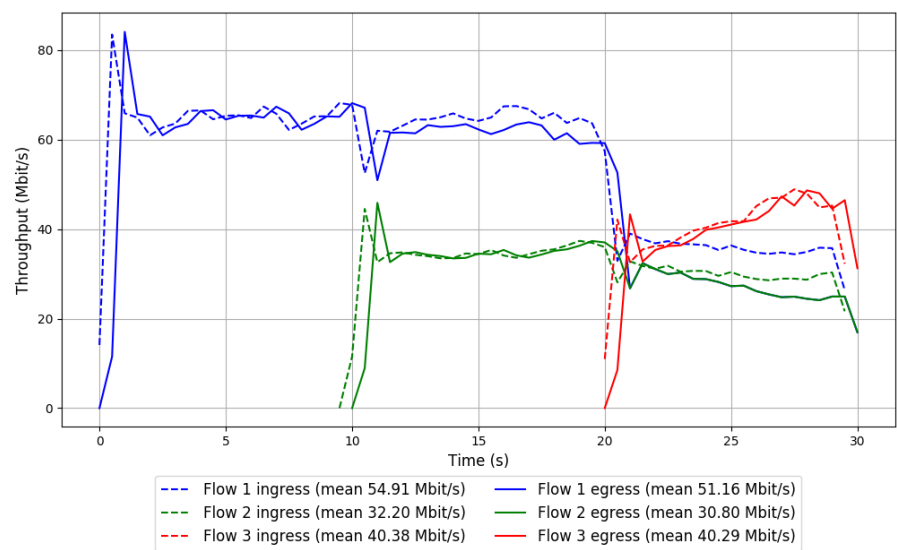


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 10:46:54
End at: 2018-06-19 10:47:24
Local clock offset: -0.744 ms
Remote clock offset: -6.596 ms

Below is generated by plot.py at 2018-06-19 12:26:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 50.585 ms
Loss rate: 5.37%
-- Flow 1:
Average throughput: 51.16 Mbit/s
95th percentile per-packet one-way delay: 46.110 ms
Loss rate: 6.90%
-- Flow 2:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 54.049 ms
Loss rate: 4.48%
-- Flow 3:
Average throughput: 40.29 Mbit/s
95th percentile per-packet one-way delay: 37.322 ms
Loss rate: 0.52%

Run 6: Report of PCC-Allegro — Data Link

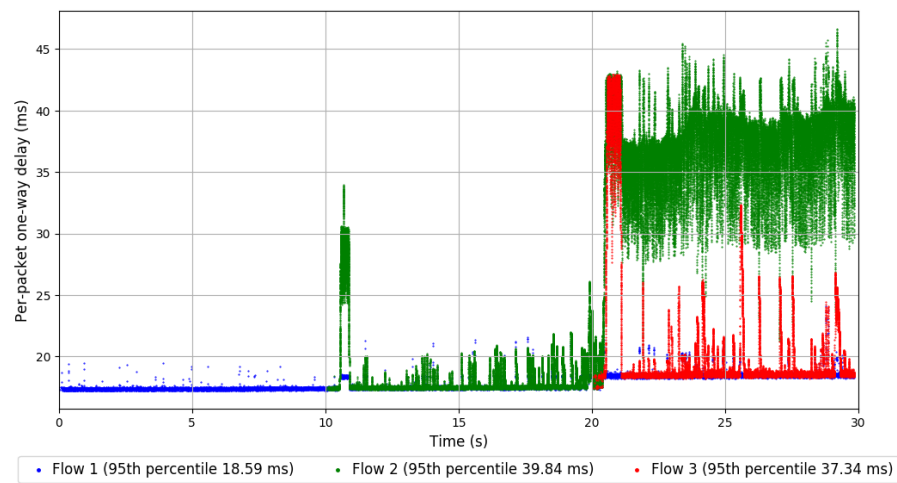
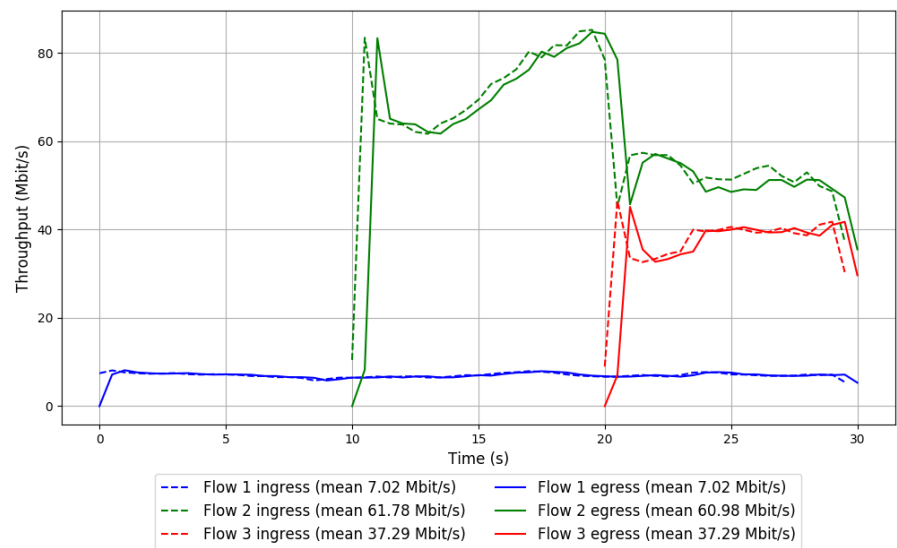


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 11:05:54
End at: 2018-06-19 11:06:24
Local clock offset: 3.085 ms
Remote clock offset: -4.338 ms

Below is generated by plot.py at 2018-06-19 12:26:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.82 Mbit/s
95th percentile per-packet one-way delay: 39.411 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 18.594 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 60.98 Mbit/s
95th percentile per-packet one-way delay: 39.842 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 37.29 Mbit/s
95th percentile per-packet one-way delay: 37.335 ms
Loss rate: 0.34%

Run 7: Report of PCC-Allegro — Data Link

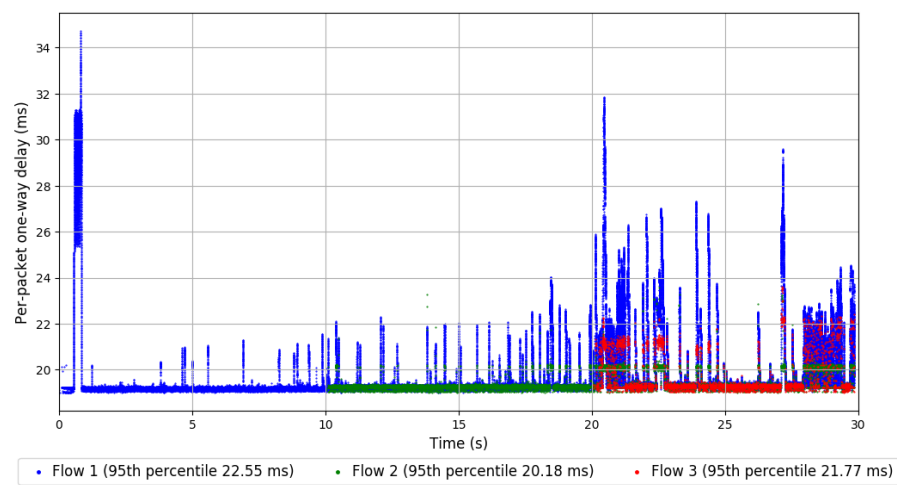
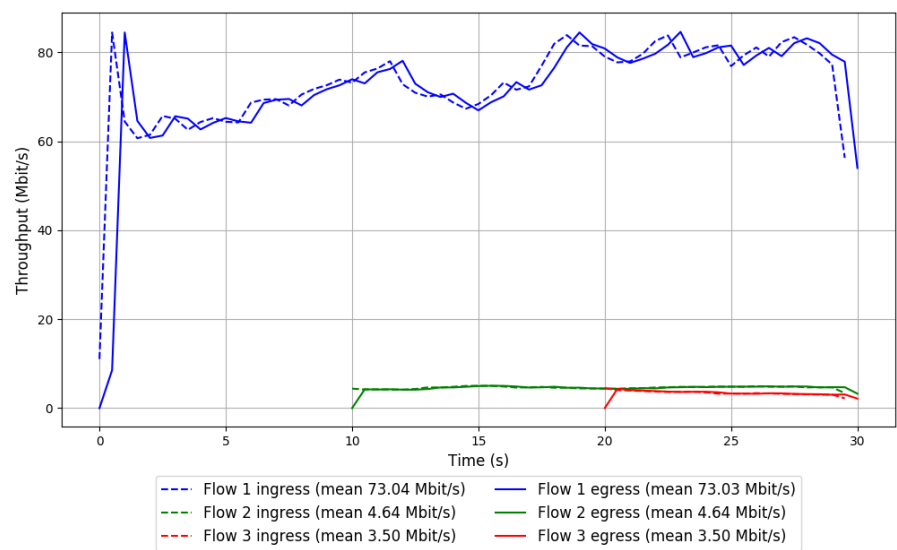


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 11:25:04
End at: 2018-06-19 11:25:34
Local clock offset: 2.793 ms
Remote clock offset: -4.828 ms

Below is generated by plot.py at 2018-06-19 12:26:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.27 Mbit/s
95th percentile per-packet one-way delay: 22.429 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 73.03 Mbit/s
95th percentile per-packet one-way delay: 22.552 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 20.178 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 21.768 ms
Loss rate: 0.27%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 11:44:04

End at: 2018-06-19 11:44:34

Local clock offset: 2.449 ms

Remote clock offset: 1.656 ms

Below is generated by plot.py at 2018-06-19 12:26:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.53 Mbit/s

95th percentile per-packet one-way delay: 45.650 ms

Loss rate: 5.31%

-- Flow 1:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 41.782 ms

Loss rate: 6.52%

-- Flow 2:

Average throughput: 35.49 Mbit/s

95th percentile per-packet one-way delay: 47.302 ms

Loss rate: 4.01%

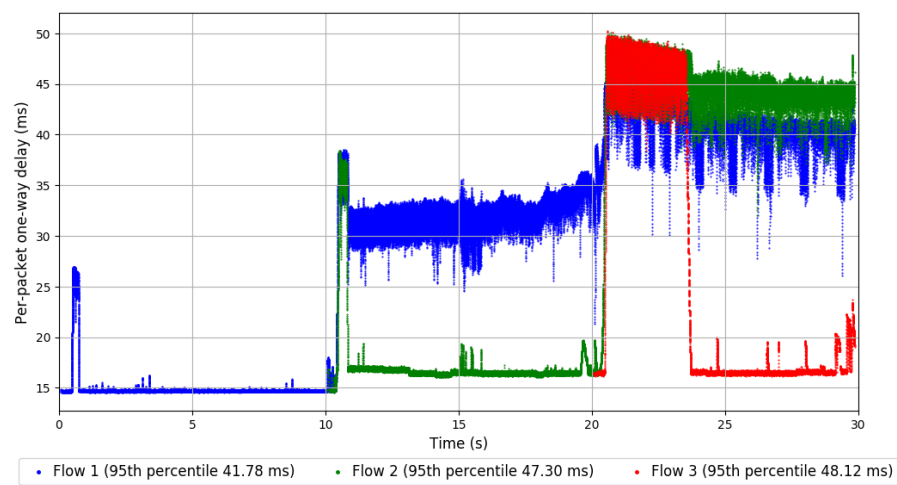
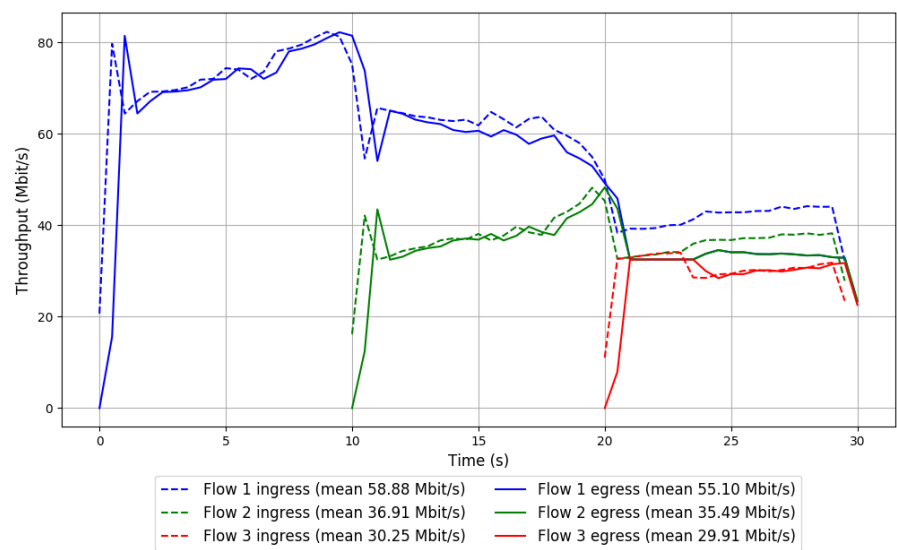
-- Flow 3:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 48.115 ms

Loss rate: 1.38%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 12:03:11

End at: 2018-06-19 12:03:41

Local clock offset: 3.469 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-19 12:26:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 29.57 Mbit/s

95th percentile per-packet one-way delay: 18.627 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 15.70 Mbit/s

95th percentile per-packet one-way delay: 18.466 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 18.715 ms

Loss rate: 0.80%

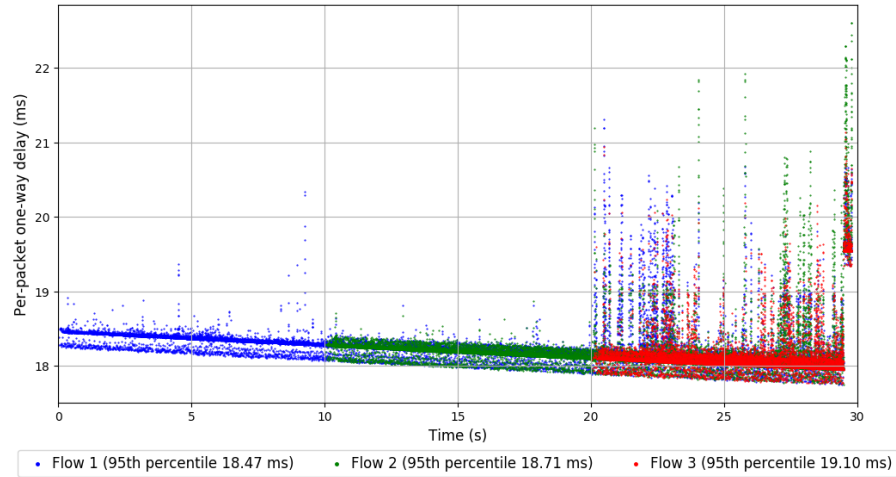
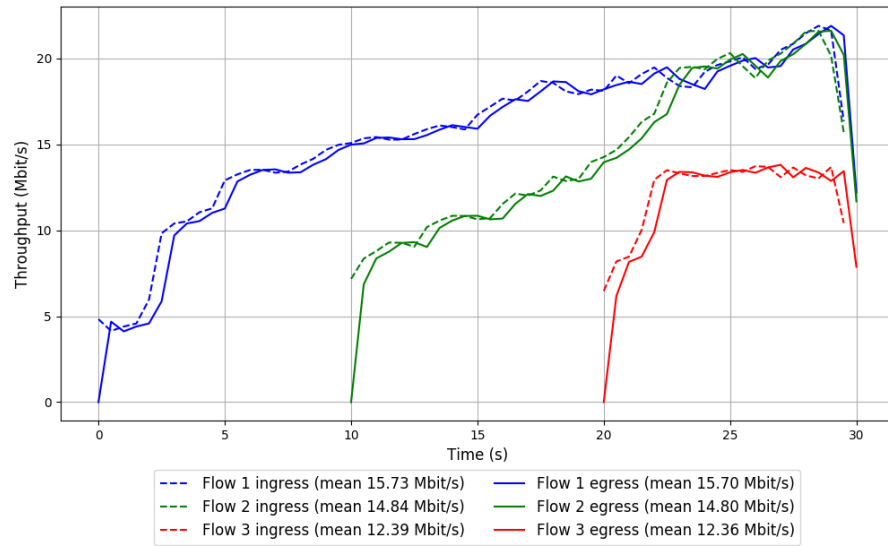
-- Flow 3:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 19.096 ms

Loss rate: 1.34%

Run 10: Report of PCC-Allegro — Data Link

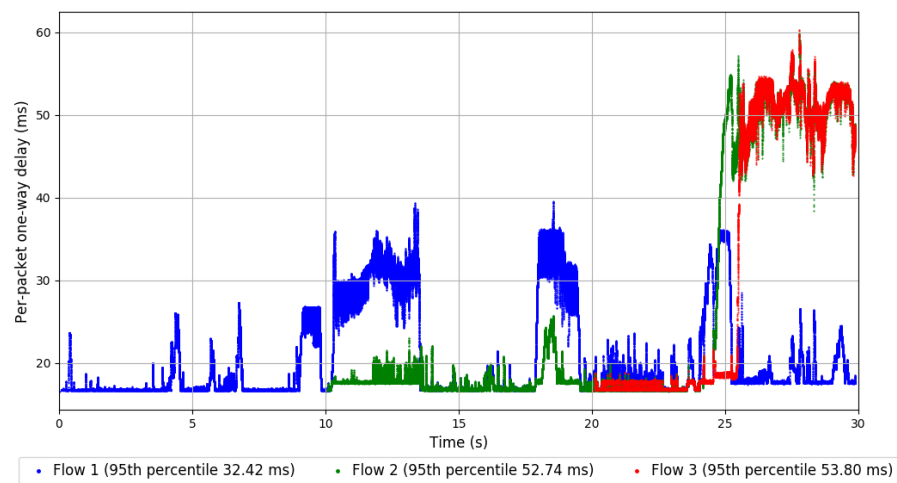
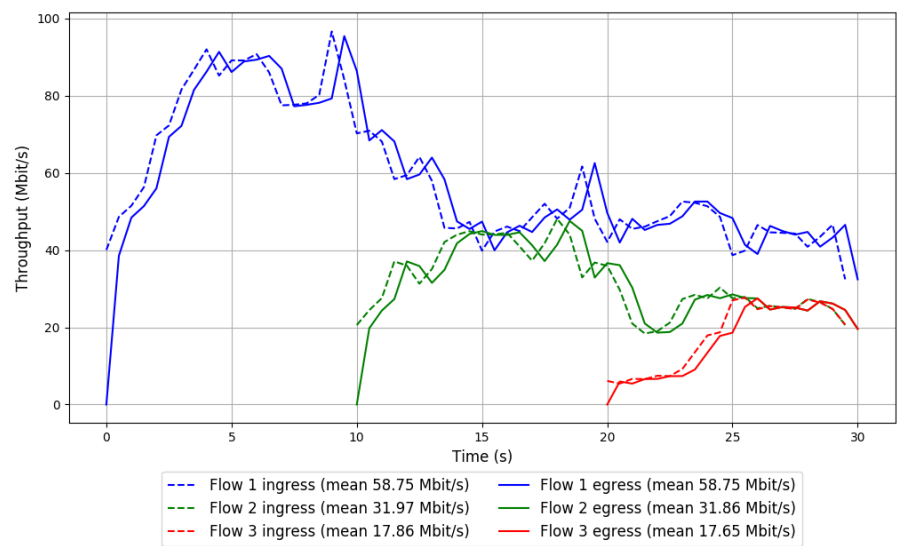


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 09:09:52
End at: 2018-06-19 09:10:22
Local clock offset: -0.678 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-19 12:27:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.75 Mbit/s
95th percentile per-packet one-way delay: 50.919 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 58.75 Mbit/s
95th percentile per-packet one-way delay: 32.424 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 52.739 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 17.65 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 1.55%
```

Run 1: Report of PCC-Expr — Data Link

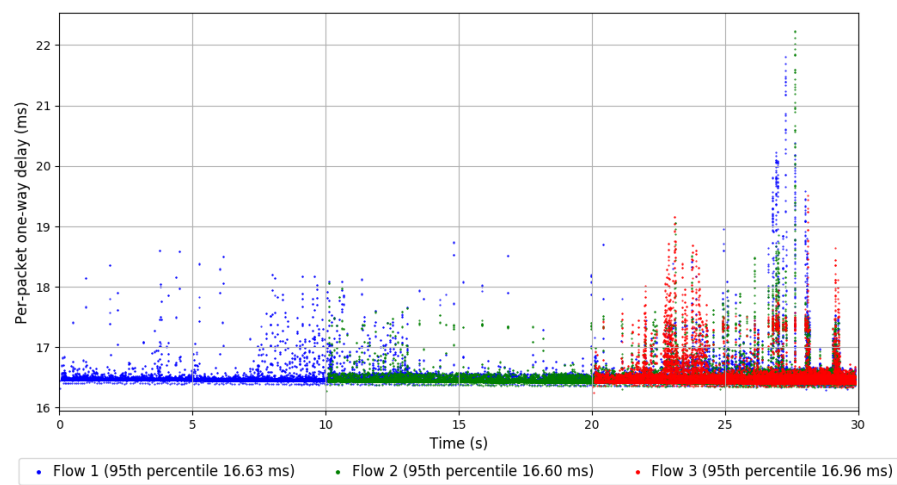
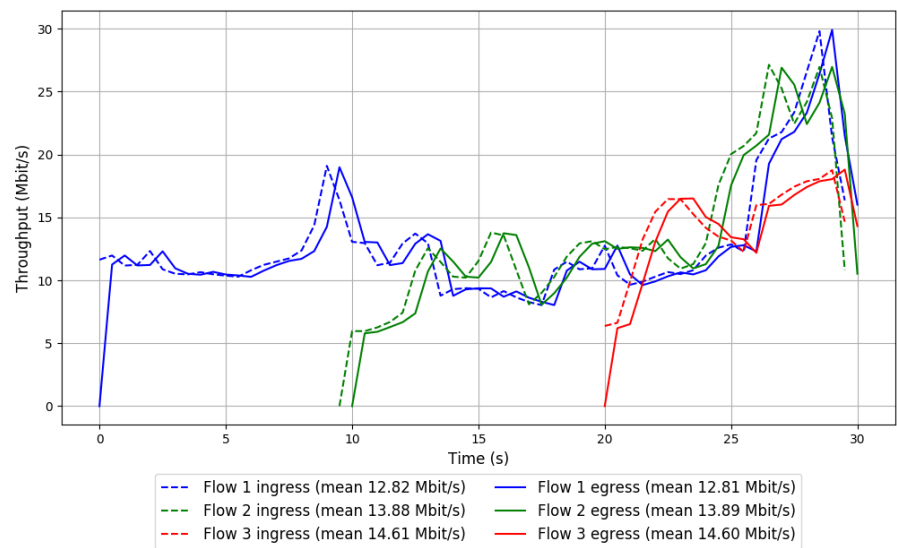


Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 09:28:43
End at: 2018-06-19 09:29:13
Local clock offset: 0.572 ms
Remote clock offset: -5.166 ms

Below is generated by plot.py at 2018-06-19 12:27:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 16.666 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 16.631 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 13.89 Mbit/s
95th percentile per-packet one-way delay: 16.604 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 16.960 ms
Loss rate: 0.32%

Run 2: Report of PCC-Expr — Data Link

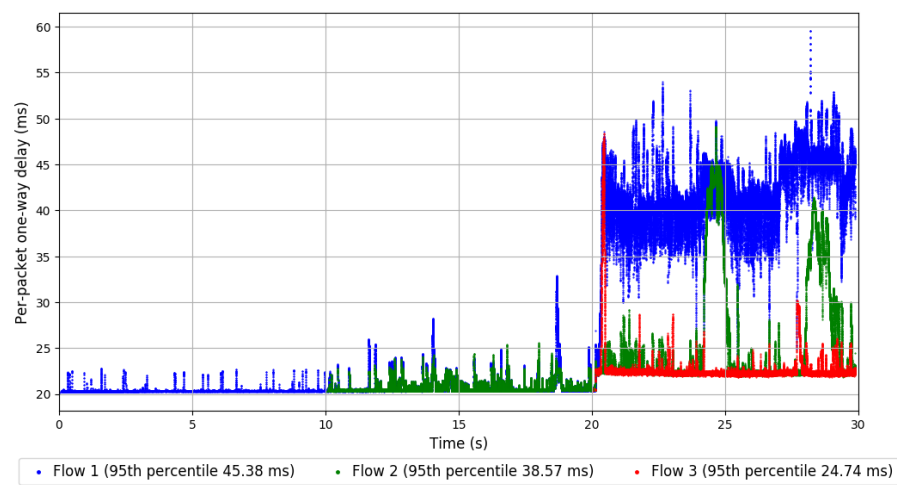
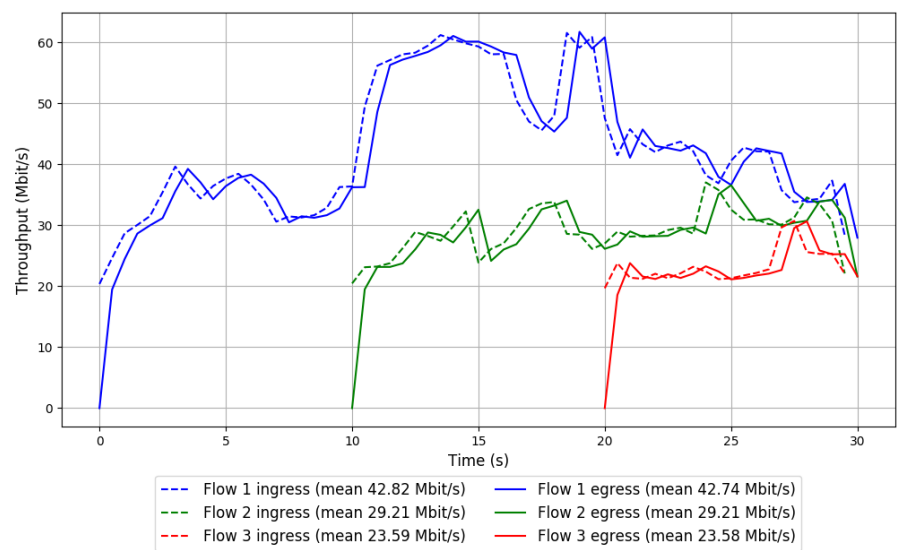


Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 09:47:41
End at: 2018-06-19 09:48:12
Local clock offset: 2.836 ms
Remote clock offset: -5.583 ms

Below is generated by plot.py at 2018-06-19 12:27:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.92 Mbit/s
95th percentile per-packet one-way delay: 44.150 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 42.74 Mbit/s
95th percentile per-packet one-way delay: 45.383 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 29.21 Mbit/s
95th percentile per-packet one-way delay: 38.574 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 23.58 Mbit/s
95th percentile per-packet one-way delay: 24.741 ms
Loss rate: 0.35%

Run 3: Report of PCC-Expr — Data Link

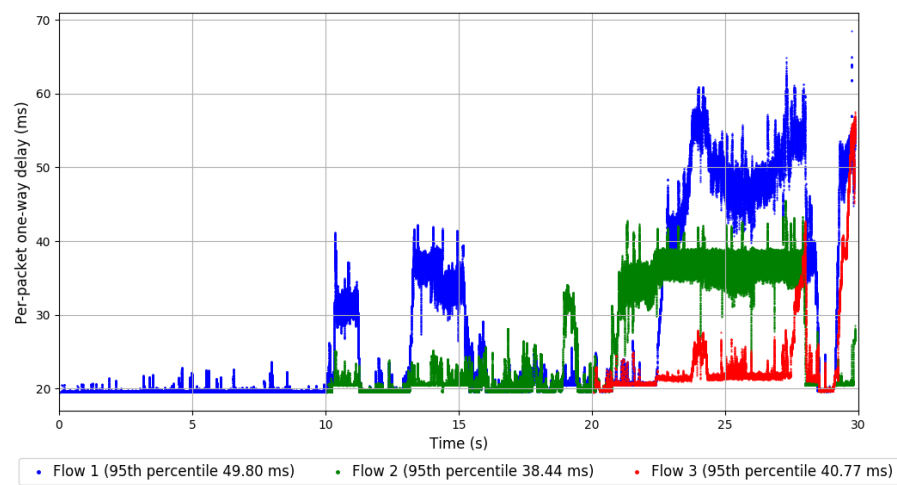
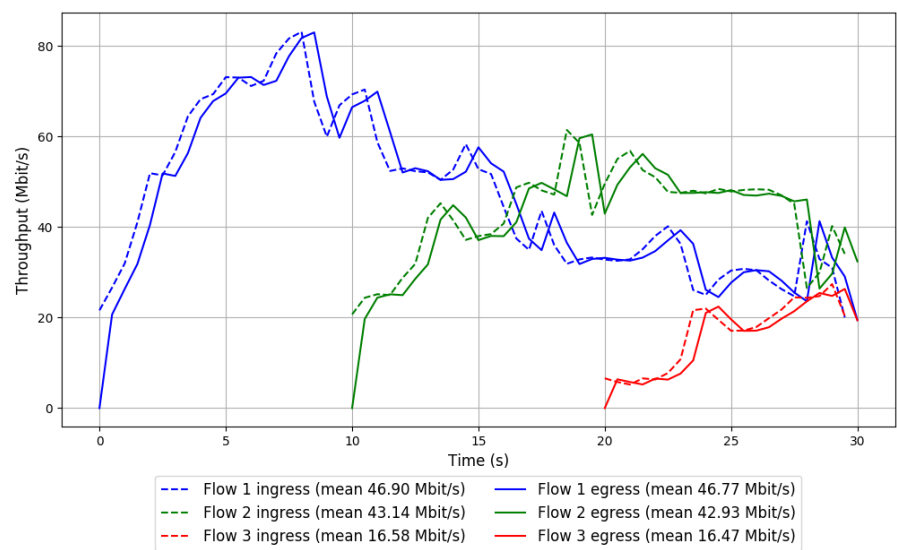


Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 10:07:07
End at: 2018-06-19 10:07:37
Local clock offset: 1.407 ms
Remote clock offset: -3.155 ms

Below is generated by plot.py at 2018-06-19 12:28:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.75 Mbit/s
95th percentile per-packet one-way delay: 46.813 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 46.77 Mbit/s
95th percentile per-packet one-way delay: 49.799 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 38.444 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 16.47 Mbit/s
95th percentile per-packet one-way delay: 40.771 ms
Loss rate: 0.95%

Run 4: Report of PCC-Expr — Data Link

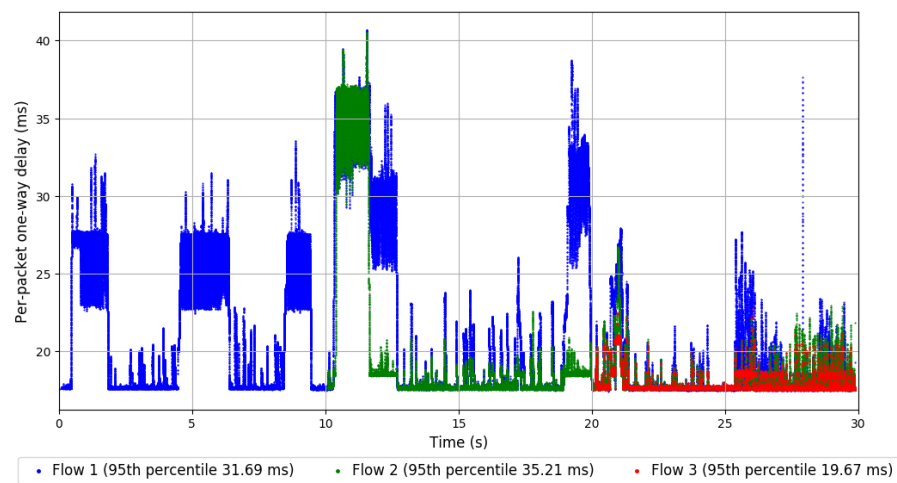
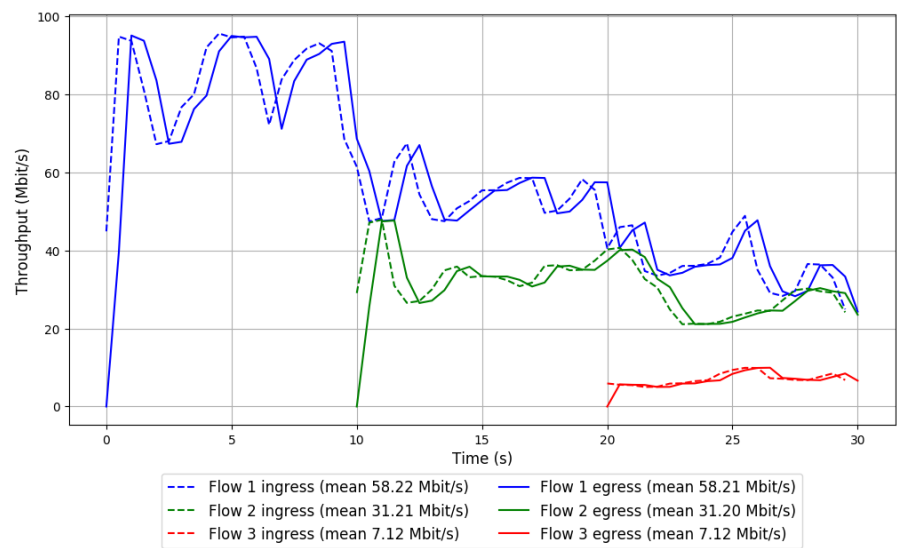


Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 10:26:16
End at: 2018-06-19 10:26:46
Local clock offset: -3.078 ms
Remote clock offset: -5.101 ms

Below is generated by plot.py at 2018-06-19 12:28:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.29 Mbit/s
95th percentile per-packet one-way delay: 32.661 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 58.21 Mbit/s
95th percentile per-packet one-way delay: 31.694 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 35.211 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 19.673 ms
Loss rate: 0.34%

Run 5: Report of PCC-Expr — Data Link

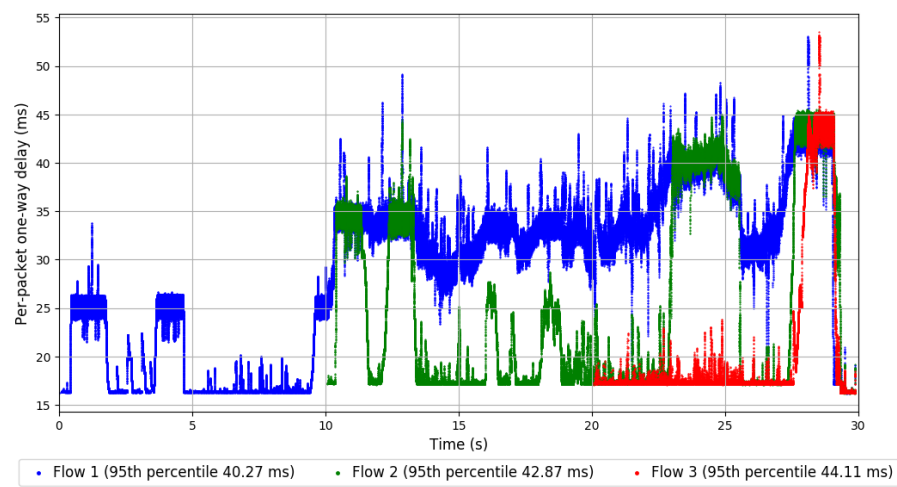
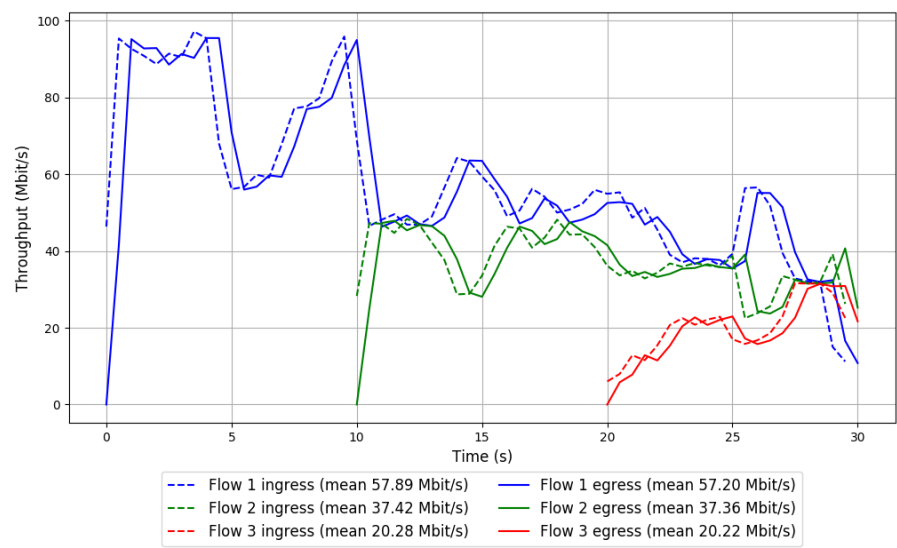


Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 10:45:34
End at: 2018-06-19 10:46:04
Local clock offset: 0.711 ms
Remote clock offset: -6.201 ms

Below is generated by plot.py at 2018-06-19 12:28:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 41.818 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 57.20 Mbit/s
95th percentile per-packet one-way delay: 40.268 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 42.867 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 20.22 Mbit/s
95th percentile per-packet one-way delay: 44.114 ms
Loss rate: 0.58%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 11:04:45

End at: 2018-06-19 11:05:15

Local clock offset: 4.022 ms

Remote clock offset: -3.65 ms

Below is generated by plot.py at 2018-06-19 12:28:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 17.44 Mbit/s

95th percentile per-packet one-way delay: 17.650 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 8.81 Mbit/s

95th percentile per-packet one-way delay: 17.632 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 9.76 Mbit/s

95th percentile per-packet one-way delay: 17.677 ms

Loss rate: 0.10%

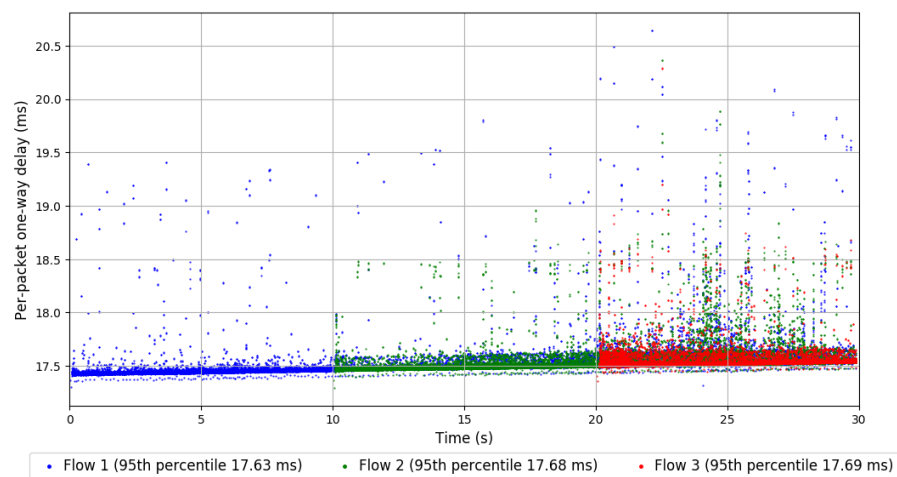
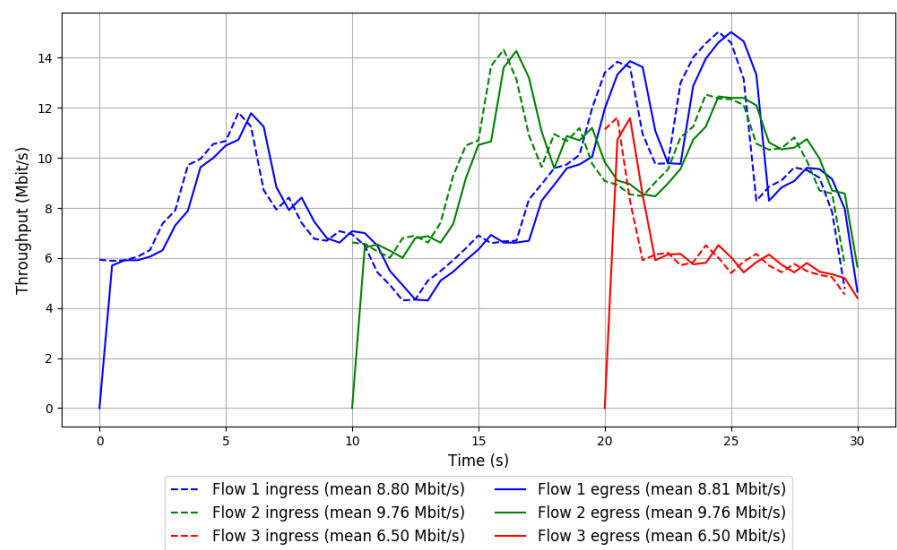
-- Flow 3:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 17.690 ms

Loss rate: 0.26%

Run 7: Report of PCC-Expr — Data Link

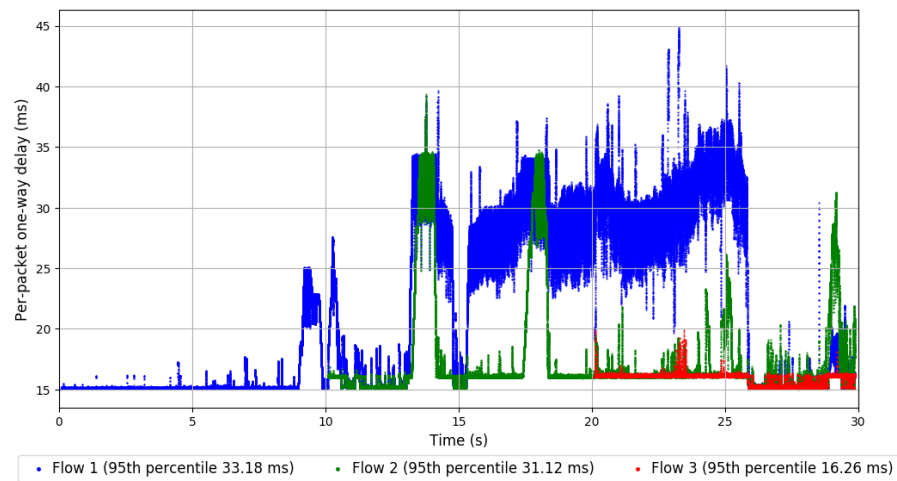
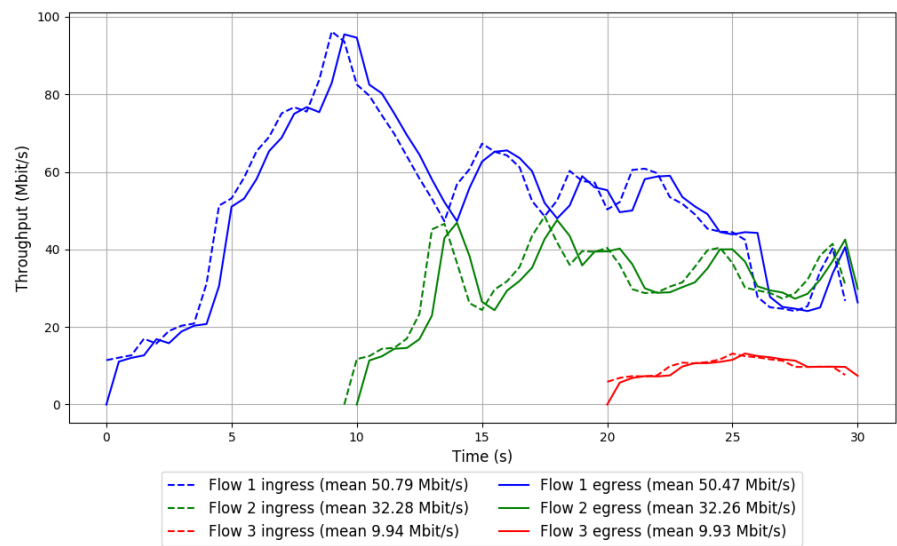


Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 11:23:49
End at: 2018-06-19 11:24:19
Local clock offset: 0.257 ms
Remote clock offset: -3.343 ms

Below is generated by plot.py at 2018-06-19 12:28:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.20 Mbit/s
95th percentile per-packet one-way delay: 32.744 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 50.47 Mbit/s
95th percentile per-packet one-way delay: 33.184 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 32.26 Mbit/s
95th percentile per-packet one-way delay: 31.118 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 16.259 ms
Loss rate: 0.28%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 11:42:49

End at: 2018-06-19 11:43:19

Local clock offset: -0.799 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2018-06-19 12:28:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.04 Mbit/s

95th percentile per-packet one-way delay: 32.988 ms

Loss rate: 0.98%

-- Flow 1:

Average throughput: 63.37 Mbit/s

95th percentile per-packet one-way delay: 33.211 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 36.30 Mbit/s

95th percentile per-packet one-way delay: 31.933 ms

Loss rate: 0.11%

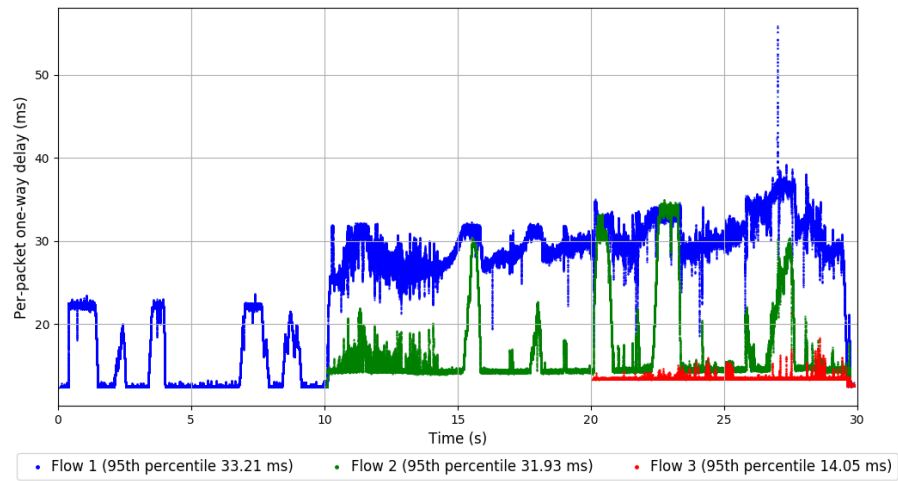
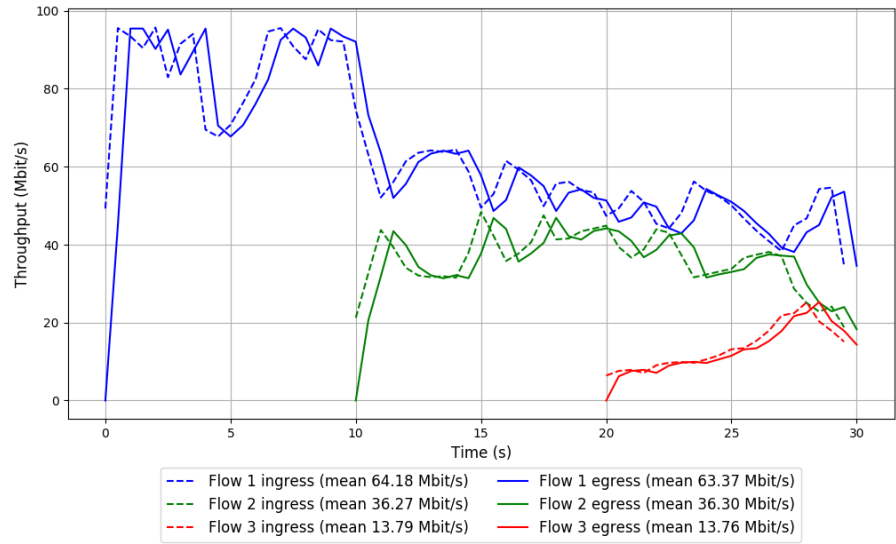
-- Flow 3:

Average throughput: 13.76 Mbit/s

95th percentile per-packet one-way delay: 14.053 ms

Loss rate: 0.46%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 12:01:56

End at: 2018-06-19 12:02:26

Local clock offset: 2.727 ms

Remote clock offset: 2.174 ms

Below is generated by plot.py at 2018-06-19 12:28:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 34.423 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 40.14 Mbit/s

95th percentile per-packet one-way delay: 35.148 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 43.75 Mbit/s

95th percentile per-packet one-way delay: 31.394 ms

Loss rate: 0.08%

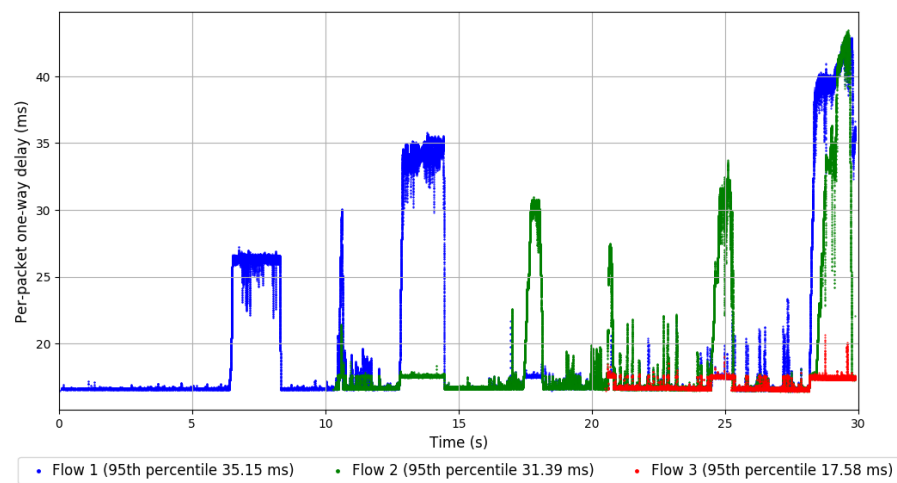
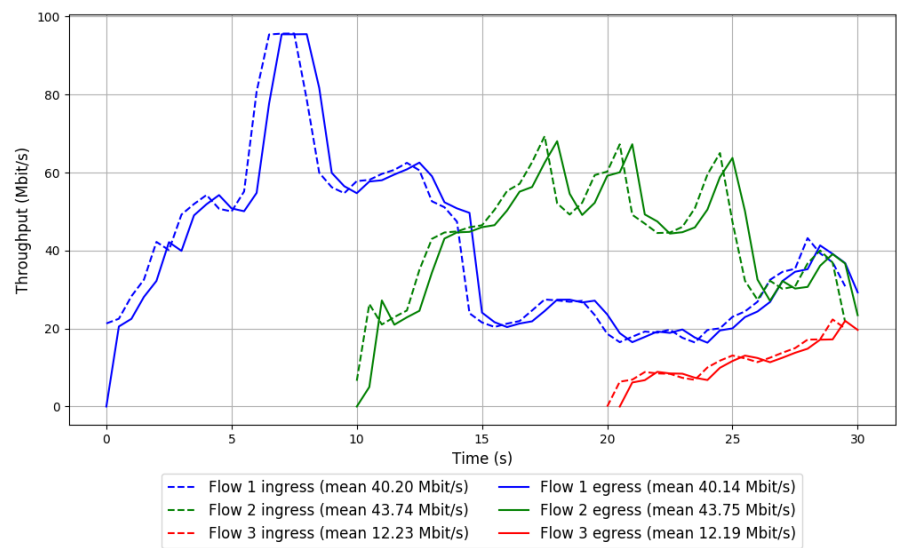
-- Flow 3:

Average throughput: 12.19 Mbit/s

95th percentile per-packet one-way delay: 17.582 ms

Loss rate: 0.58%

Run 10: Report of PCC-Expr — Data Link

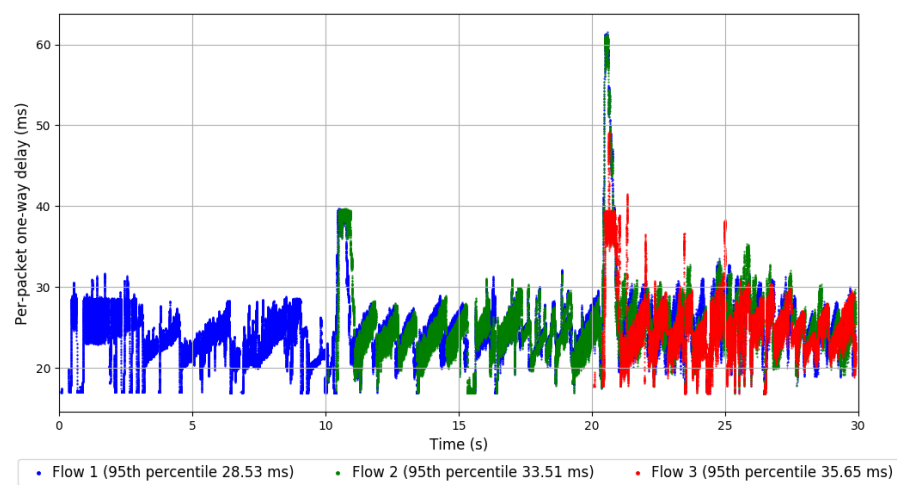
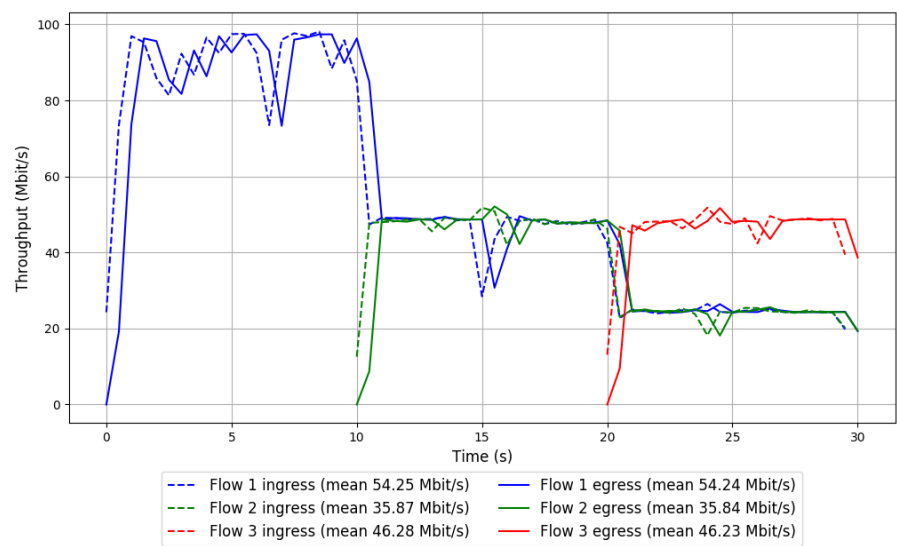


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 09:14:37
End at: 2018-06-19 09:15:07
Local clock offset: -0.016 ms
Remote clock offset: -2.98 ms

# Below is generated by plot.py at 2018-06-19 12:29:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 29.878 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 54.24 Mbit/s
95th percentile per-packet one-way delay: 28.530 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 33.506 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 46.23 Mbit/s
95th percentile per-packet one-way delay: 35.651 ms
Loss rate: 0.39%
```

Run 1: Report of QUIC Cubic — Data Link

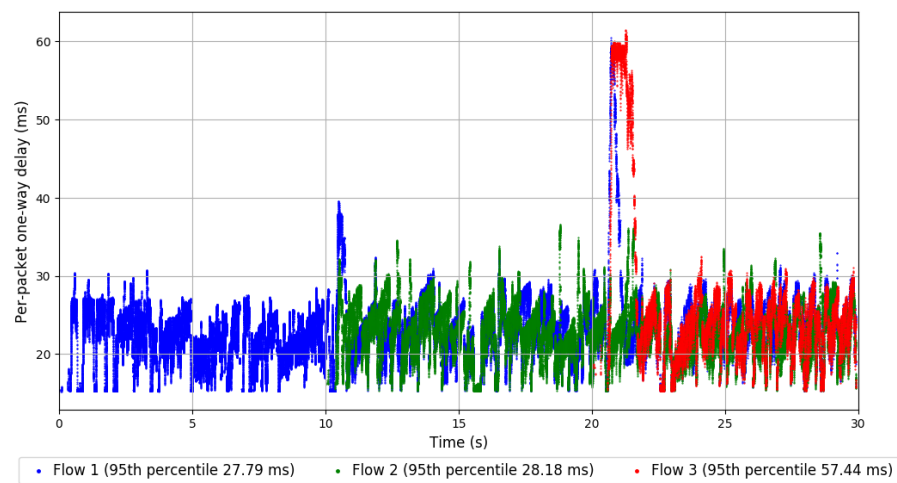
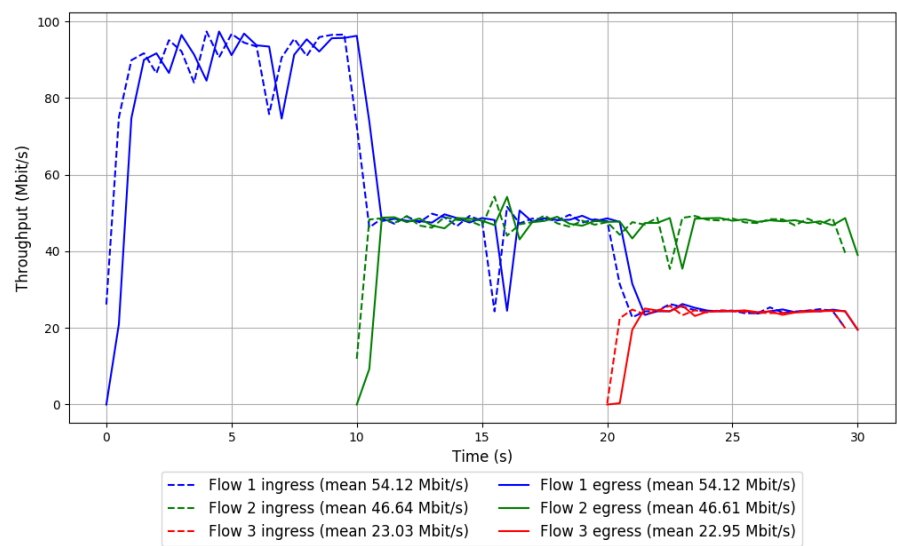


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 09:33:25
End at: 2018-06-19 09:33:55
Local clock offset: -0.693 ms
Remote clock offset: -5.831 ms

Below is generated by plot.py at 2018-06-19 12:29:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 28.330 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 27.785 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 46.61 Mbit/s
95th percentile per-packet one-way delay: 28.176 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 57.438 ms
Loss rate: 0.65%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 09:52:40

End at: 2018-06-19 09:53:10

Local clock offset: -1.296 ms

Remote clock offset: -2.78 ms

Below is generated by plot.py at 2018-06-19 12:29:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 28.533 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 52.39 Mbit/s

95th percentile per-packet one-way delay: 27.645 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 31.480 ms

Loss rate: 0.21%

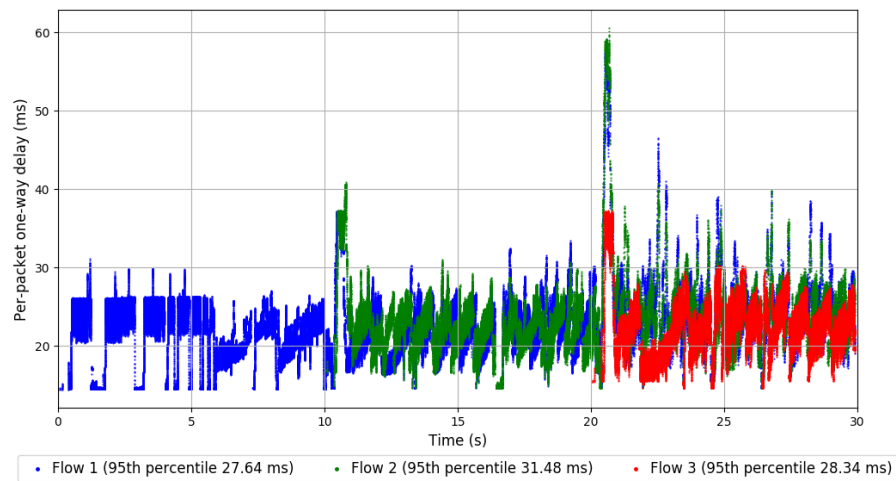
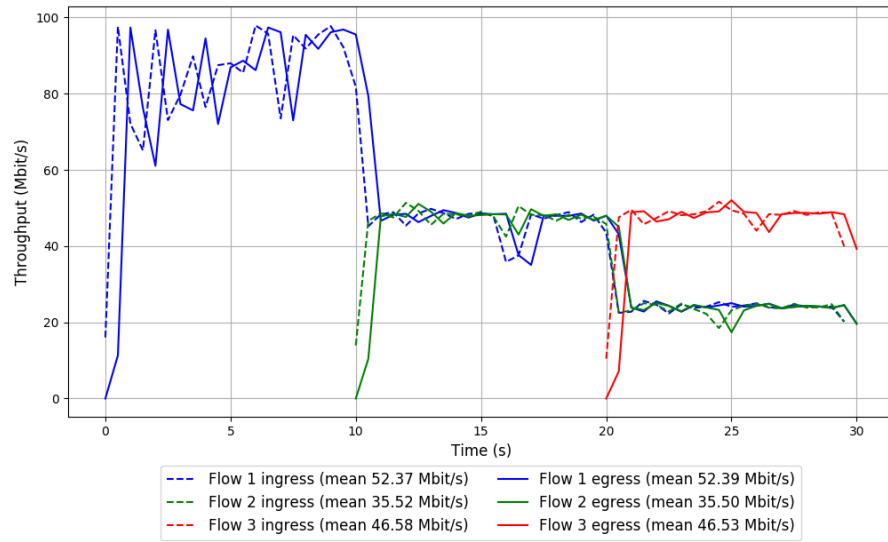
-- Flow 3:

Average throughput: 46.53 Mbit/s

95th percentile per-packet one-way delay: 28.339 ms

Loss rate: 0.36%

Run 3: Report of QUIC Cubic — Data Link

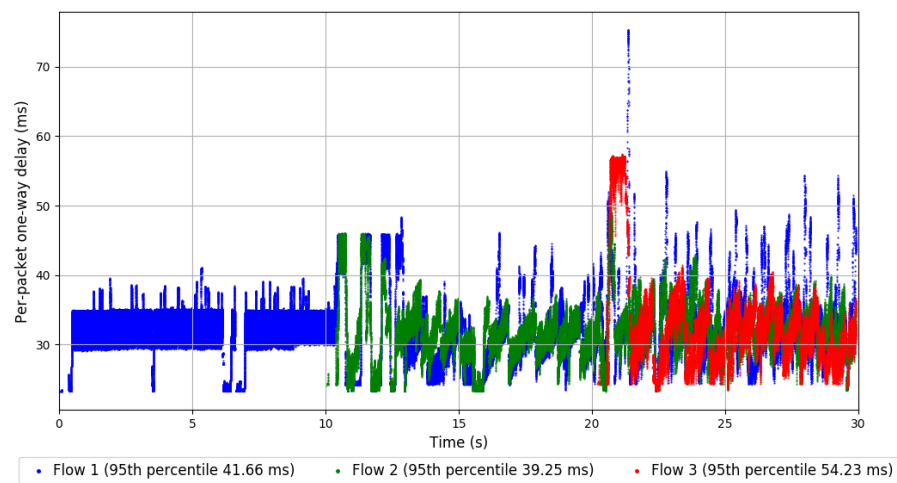
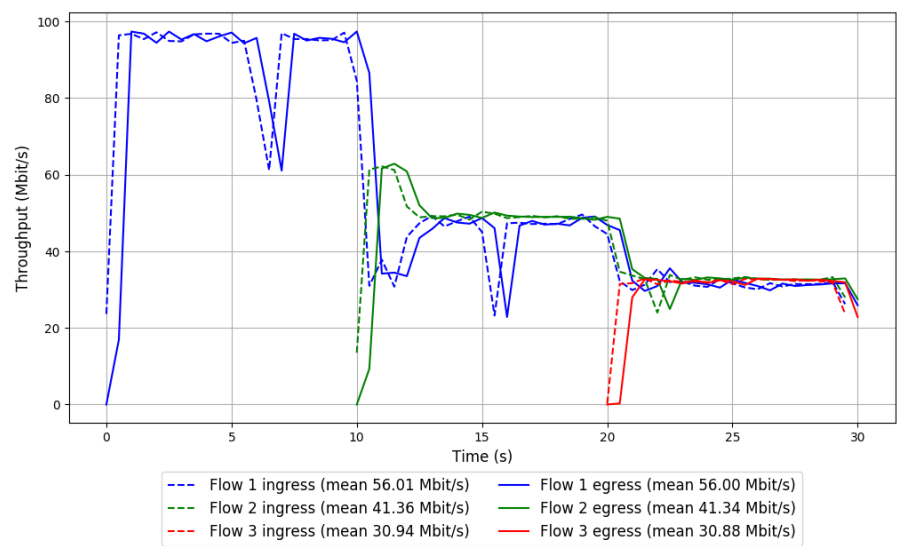


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 10:12:04
End at: 2018-06-19 10:12:34
Local clock offset: 2.818 ms
Remote clock offset: -4.874 ms

Below is generated by plot.py at 2018-06-19 12:29:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 41.437 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.00 Mbit/s
95th percentile per-packet one-way delay: 41.665 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 41.34 Mbit/s
95th percentile per-packet one-way delay: 39.252 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 30.88 Mbit/s
95th percentile per-packet one-way delay: 54.229 ms
Loss rate: 0.56%

Run 4: Report of QUIC Cubic — Data Link

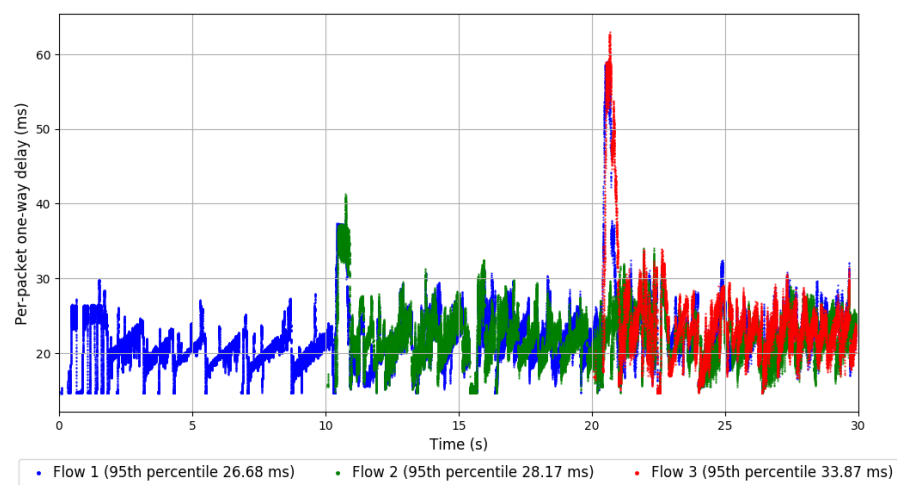
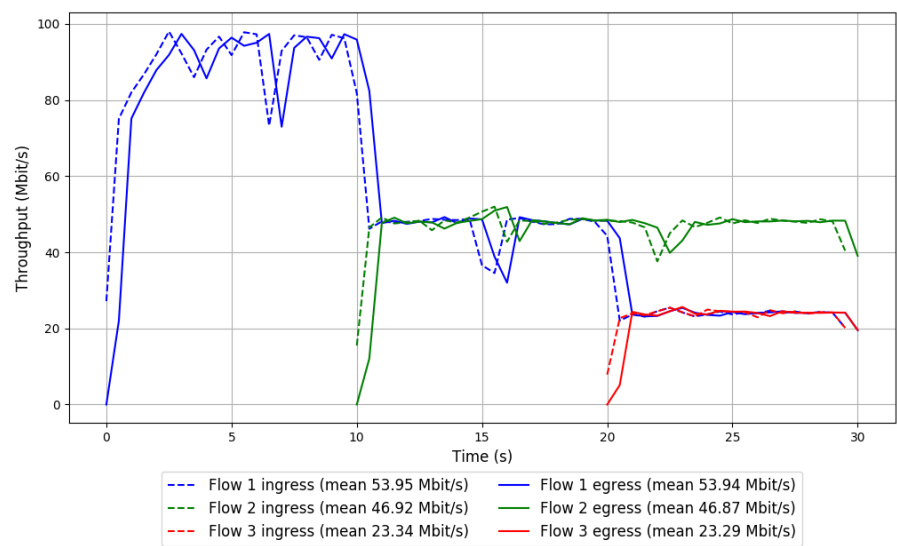


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 10:31:16
End at: 2018-06-19 10:31:46
Local clock offset: -3.702 ms
Remote clock offset: -7.269 ms

Below is generated by plot.py at 2018-06-19 12:29:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.81 Mbit/s
95th percentile per-packet one-way delay: 27.770 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 53.94 Mbit/s
95th percentile per-packet one-way delay: 26.678 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 46.87 Mbit/s
95th percentile per-packet one-way delay: 28.170 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 23.29 Mbit/s
95th percentile per-packet one-way delay: 33.871 ms
Loss rate: 0.52%

Run 5: Report of QUIC Cubic — Data Link

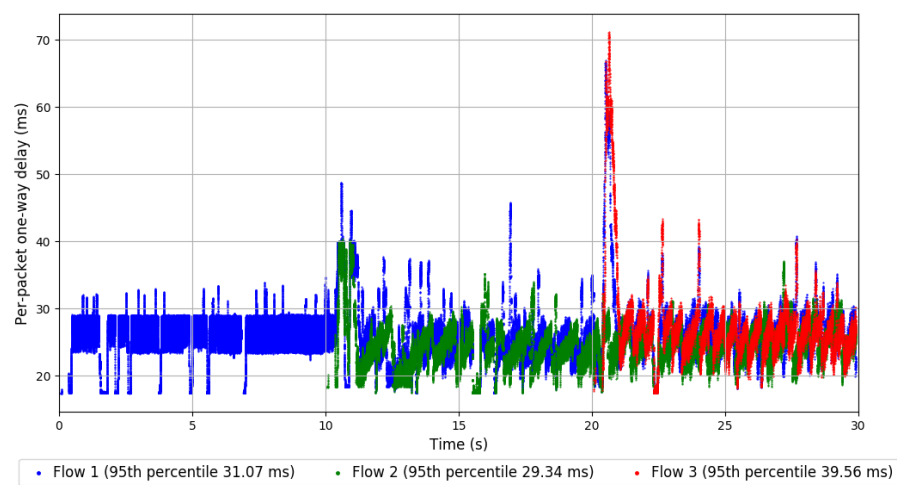
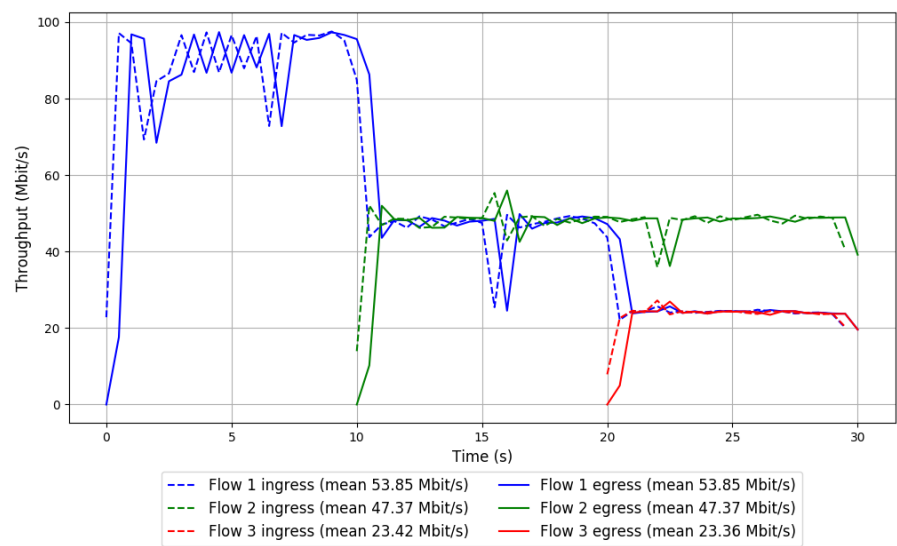


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 10:50:31
End at: 2018-06-19 10:51:01
Local clock offset: 2.409 ms
Remote clock offset: -6.348 ms

Below is generated by plot.py at 2018-06-19 12:29:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 30.750 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 53.85 Mbit/s
95th percentile per-packet one-way delay: 31.075 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 47.37 Mbit/s
95th percentile per-packet one-way delay: 29.339 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.36 Mbit/s
95th percentile per-packet one-way delay: 39.558 ms
Loss rate: 0.55%

Run 6: Report of QUIC Cubic — Data Link

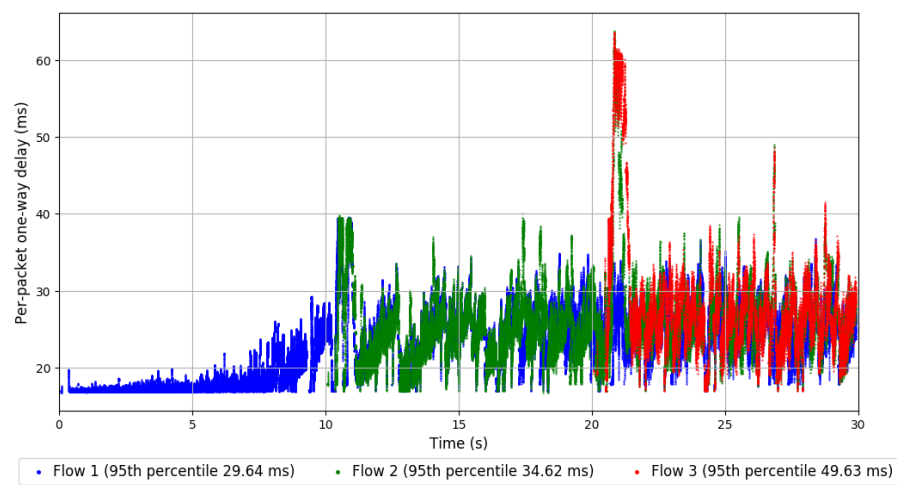
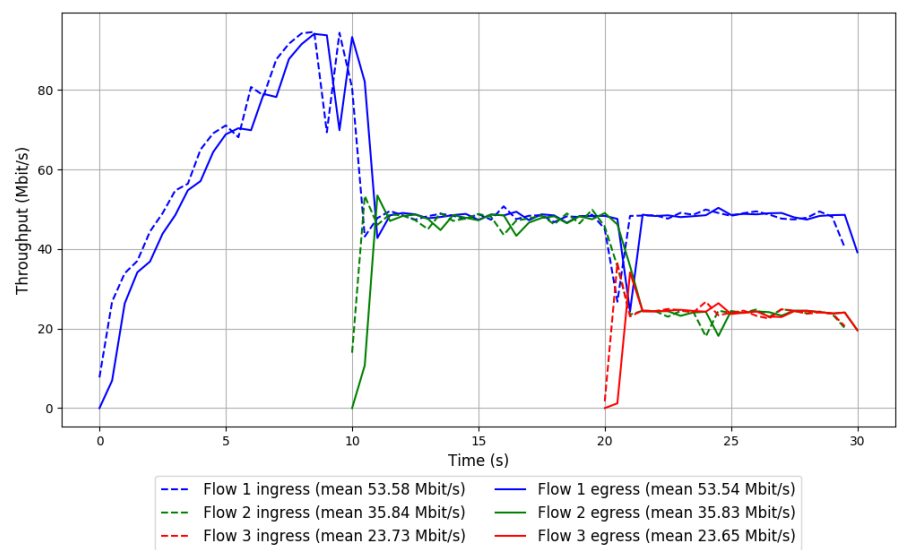


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 11:09:45
End at: 2018-06-19 11:10:15
Local clock offset: 1.948 ms
Remote clock offset: -4.322 ms

Below is generated by plot.py at 2018-06-19 12:29:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 31.753 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 53.54 Mbit/s
95th percentile per-packet one-way delay: 29.639 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 35.83 Mbit/s
95th percentile per-packet one-way delay: 34.623 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 23.65 Mbit/s
95th percentile per-packet one-way delay: 49.635 ms
Loss rate: 0.66%

Run 7: Report of QUIC Cubic — Data Link

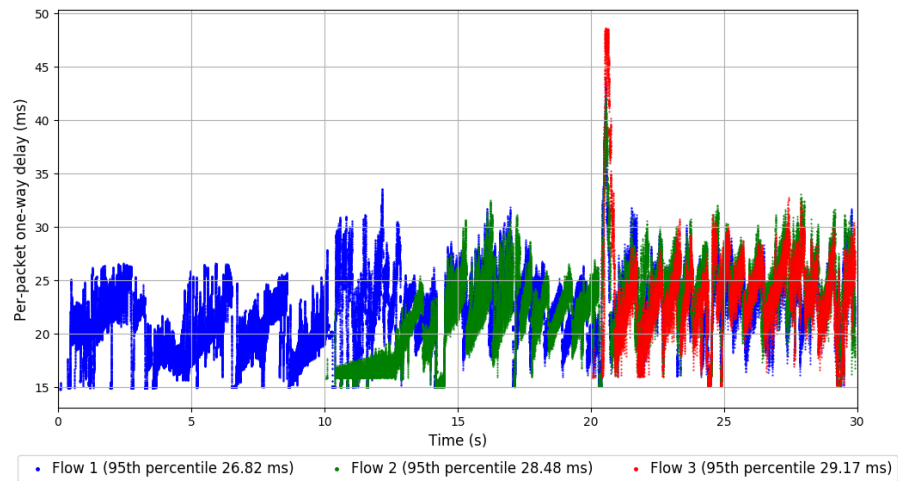
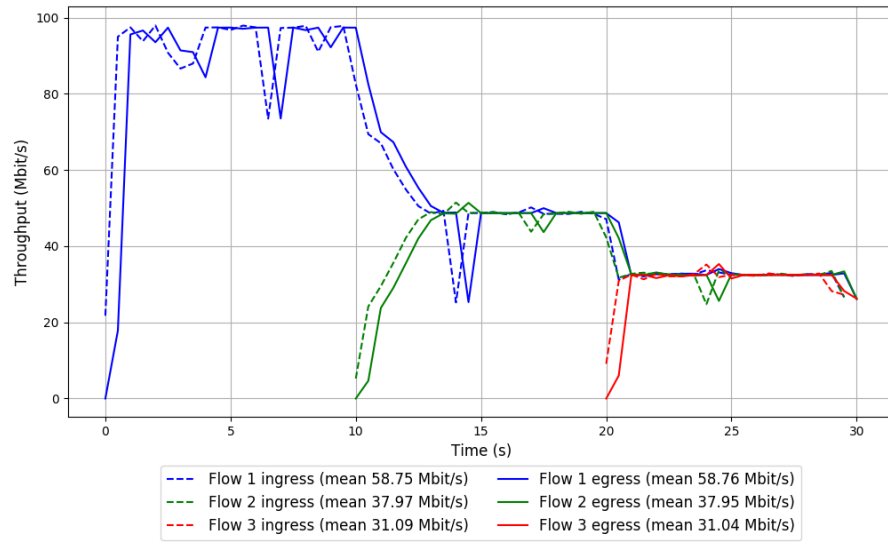


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 11:28:36
End at: 2018-06-19 11:29:06
Local clock offset: -0.18 ms
Remote clock offset: -3.103 ms

Below is generated by plot.py at 2018-06-19 12:30:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.25 Mbit/s
95th percentile per-packet one-way delay: 27.737 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 26.824 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 28.477 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 29.169 ms
Loss rate: 0.51%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 11:47:37

End at: 2018-06-19 11:48:07

Local clock offset: 2.149 ms

Remote clock offset: 1.479 ms

Below is generated by plot.py at 2018-06-19 12:30:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.82 Mbit/s

95th percentile per-packet one-way delay: 26.414 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 26.422 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 26.445 ms

Loss rate: 0.18%

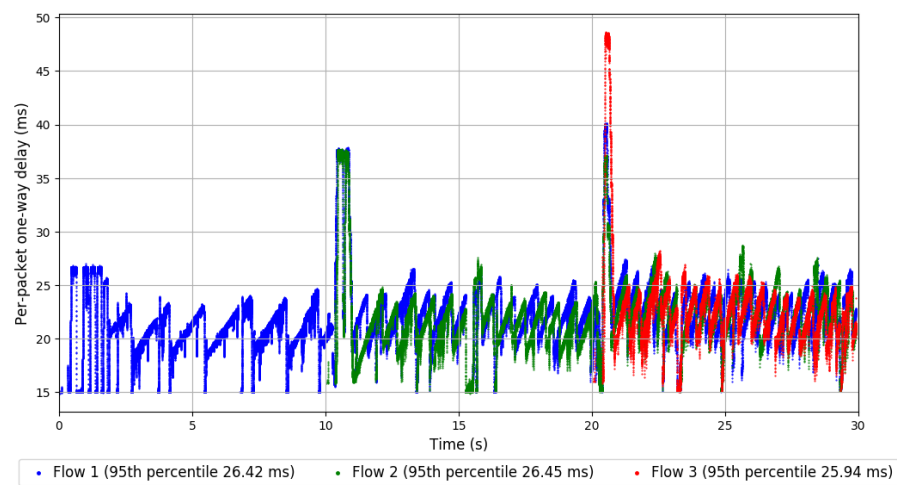
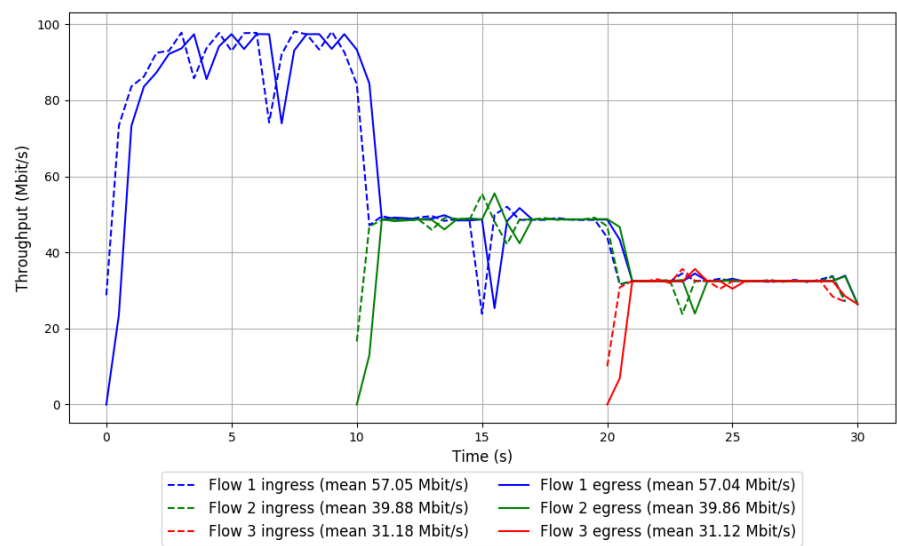
-- Flow 3:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 25.938 ms

Loss rate: 0.41%

Run 9: Report of QUIC Cubic — Data Link

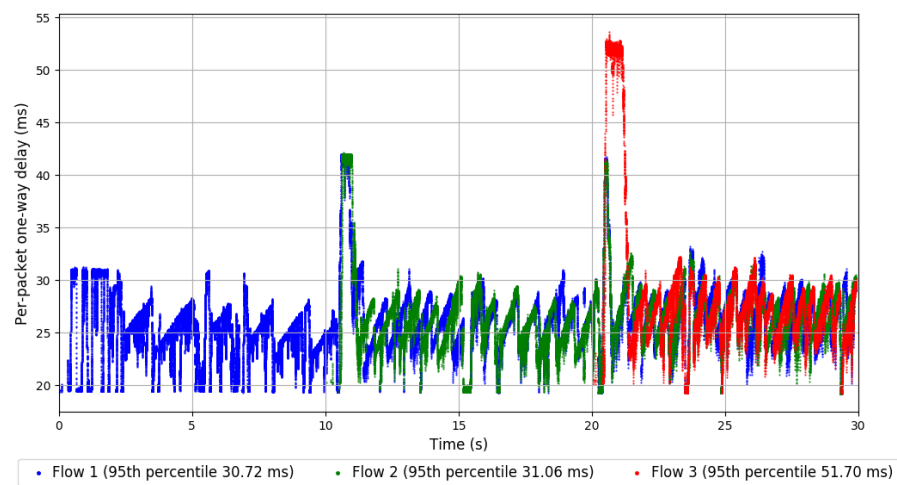
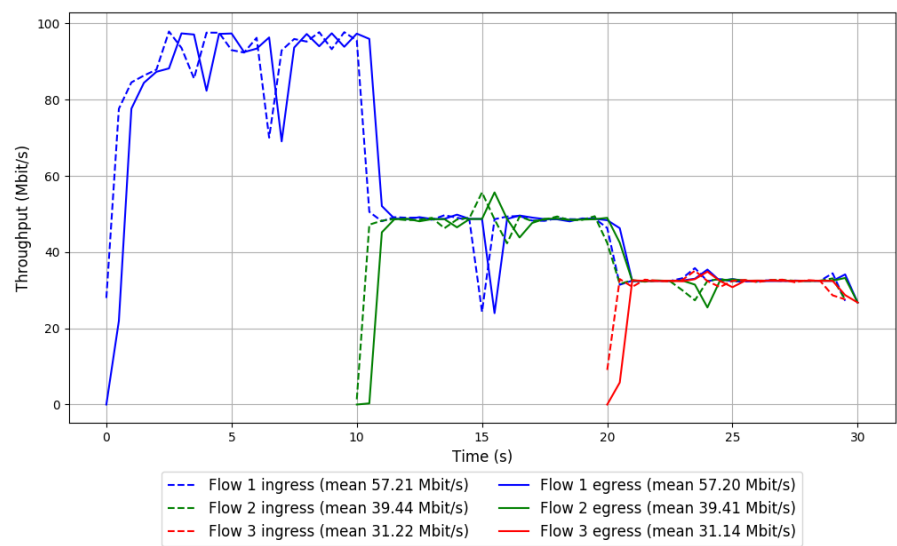


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 12:06:48
End at: 2018-06-19 12:07:18
Local clock offset: 3.067 ms
Remote clock offset: -2.442 ms

Below is generated by plot.py at 2018-06-19 12:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 30.826 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 57.20 Mbit/s
95th percentile per-packet one-way delay: 30.724 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.41 Mbit/s
95th percentile per-packet one-way delay: 31.056 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 51.703 ms
Loss rate: 0.53%

Run 10: Report of QUIC Cubic — Data Link

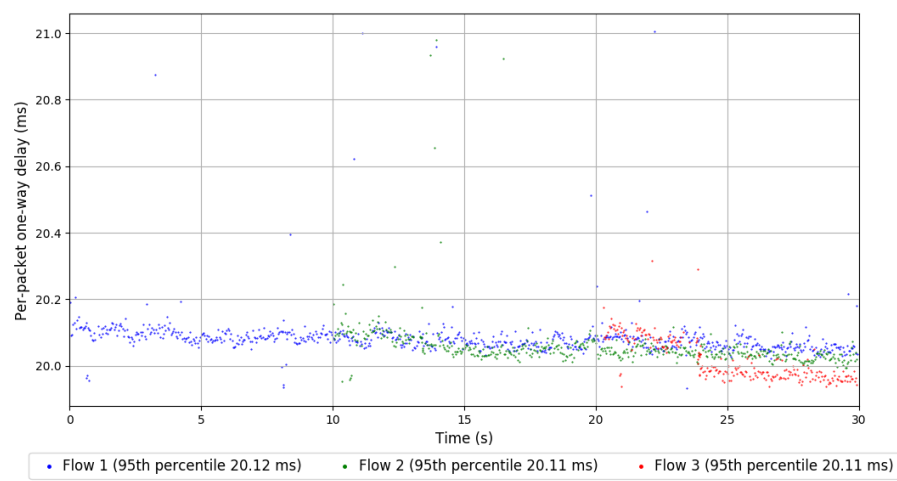
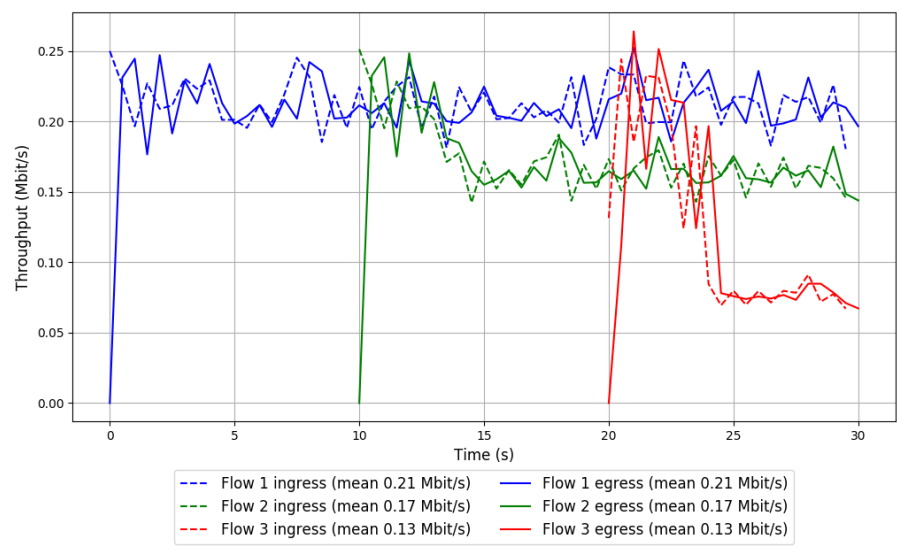


Run 1: Statistics of SCReAM

Start at: 2018-06-19 09:07:36
End at: 2018-06-19 09:08:06
Local clock offset: -1.478 ms
Remote clock offset: -4.085 ms

Below is generated by plot.py at 2018-06-19 12:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 20.119 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 20.122 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 20.111 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 20.115 ms
Loss rate: 0.25%

Run 1: Report of SReAM — Data Link

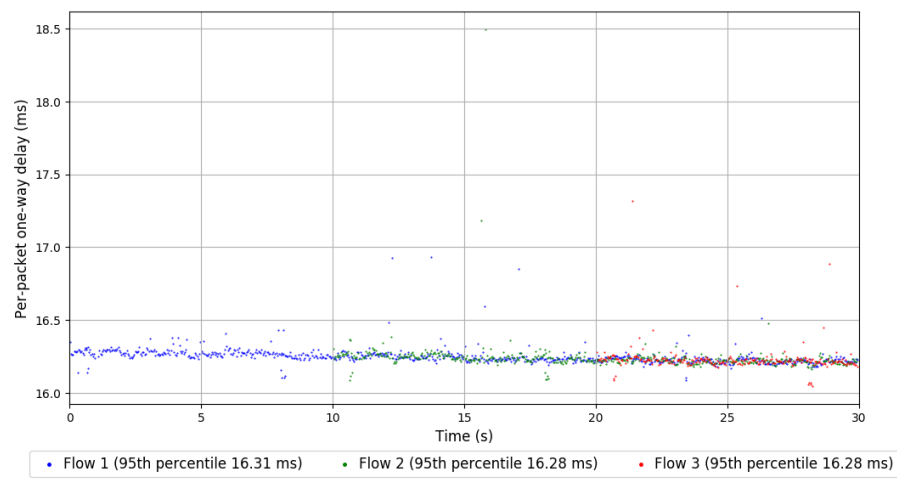
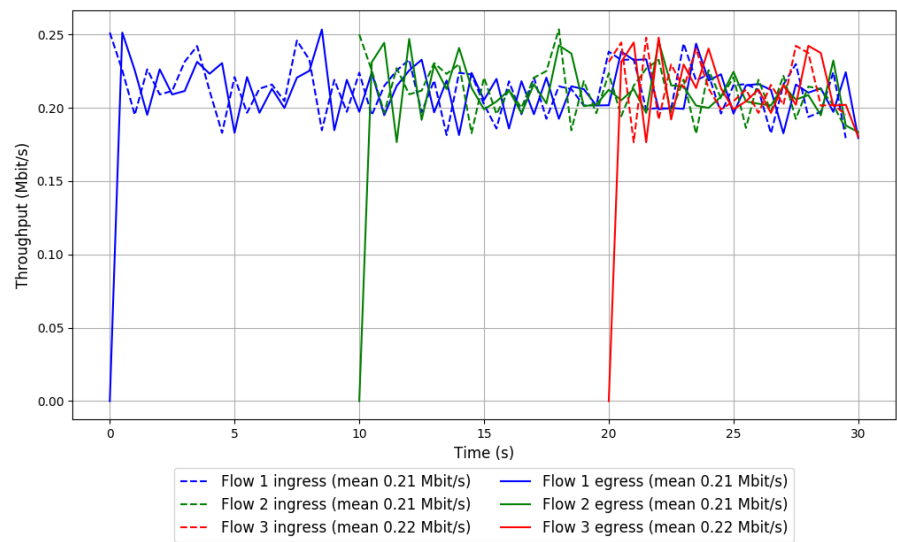


Run 2: Statistics of SReAM

Start at: 2018-06-19 09:26:26
End at: 2018-06-19 09:26:56
Local clock offset: 0.816 ms
Remote clock offset: -4.465 ms

Below is generated by plot.py at 2018-06-19 12:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 16.298 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.308 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.284 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 16.279 ms
Loss rate: 0.35%

Run 2: Report of SReAM — Data Link

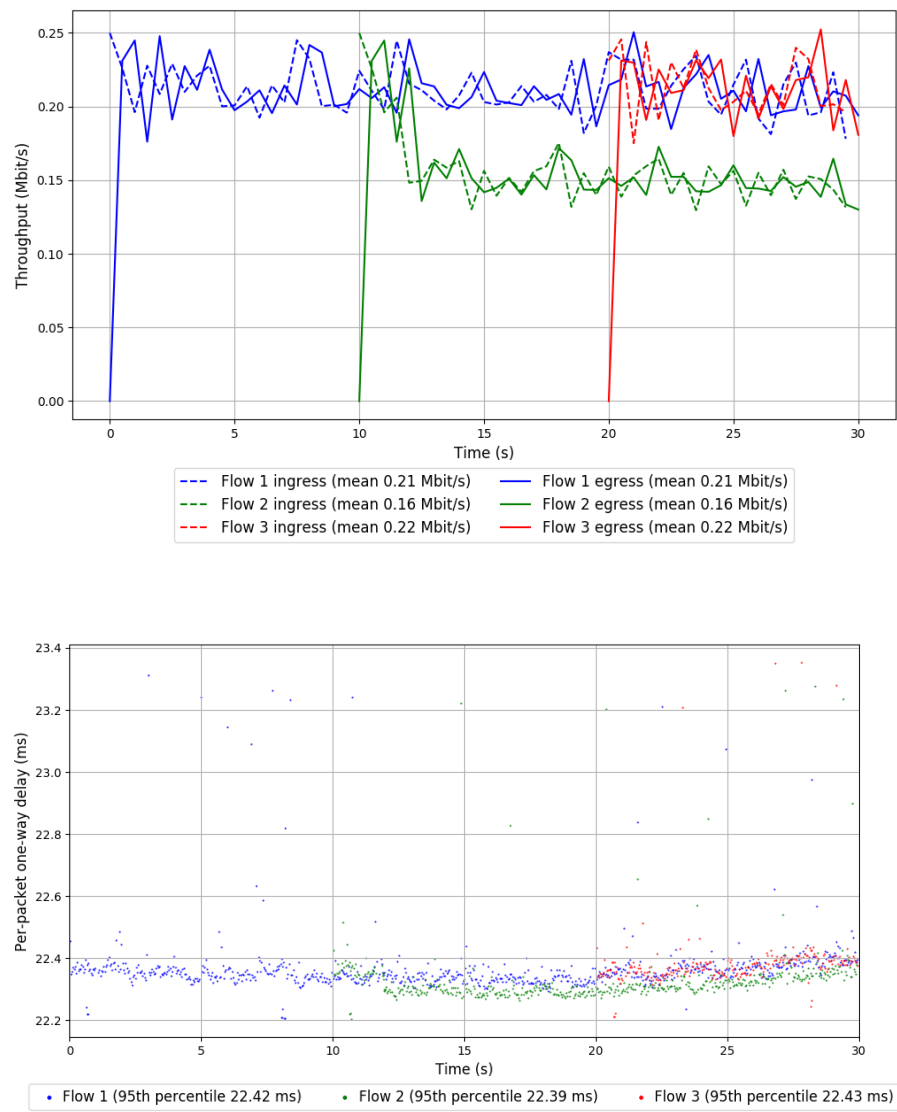


Run 3: Statistics of SCReAM

Start at: 2018-06-19 09:45:21
End at: 2018-06-19 09:45:51
Local clock offset: -4.117 ms
Remote clock offset: -15.38 ms

Below is generated by plot.py at 2018-06-19 12:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 22.417 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 22.420 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 22.386 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 22.431 ms
Loss rate: 0.36%

Run 3: Report of SReAM — Data Link

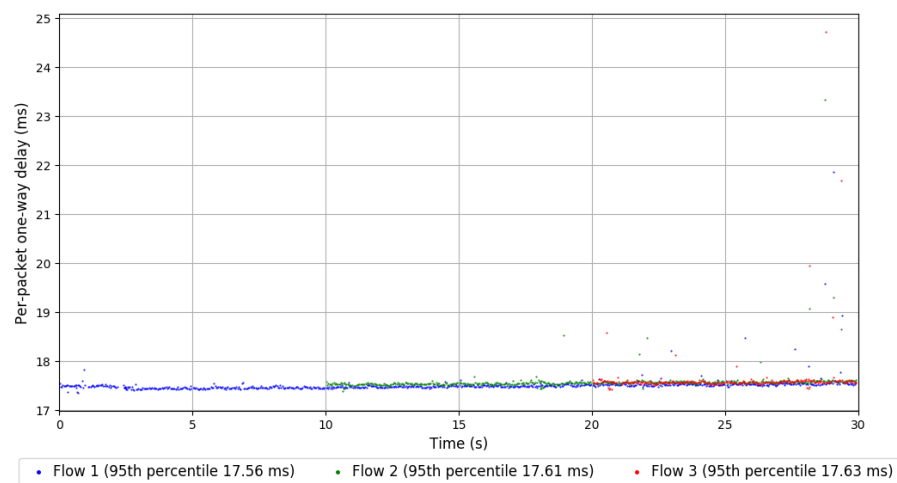
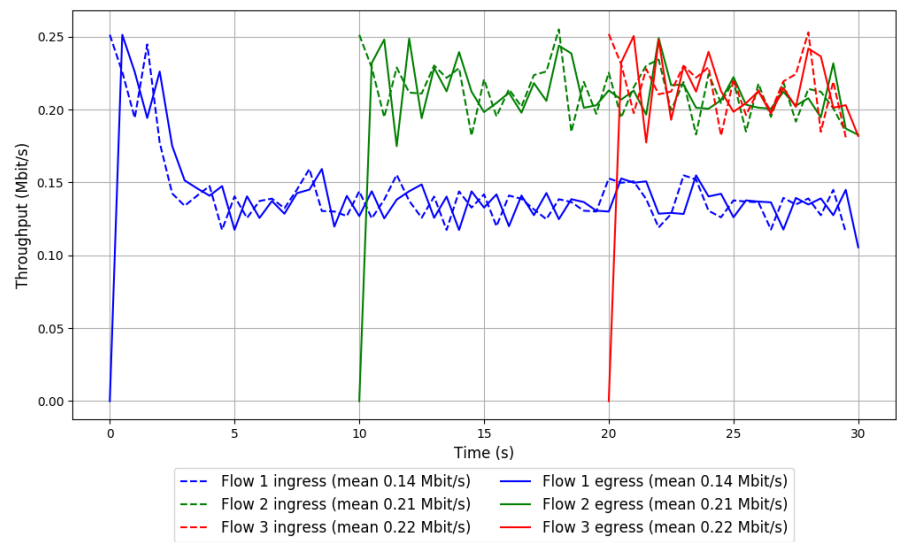


Run 4: Statistics of SReAM

Start at: 2018-06-19 10:04:42
End at: 2018-06-19 10:05:12
Local clock offset: 2.507 ms
Remote clock offset: -0.427 ms

Below is generated by plot.py at 2018-06-19 12:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 17.606 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 17.562 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 17.607 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.629 ms
Loss rate: 0.35%

Run 4: Report of SReAM — Data Link

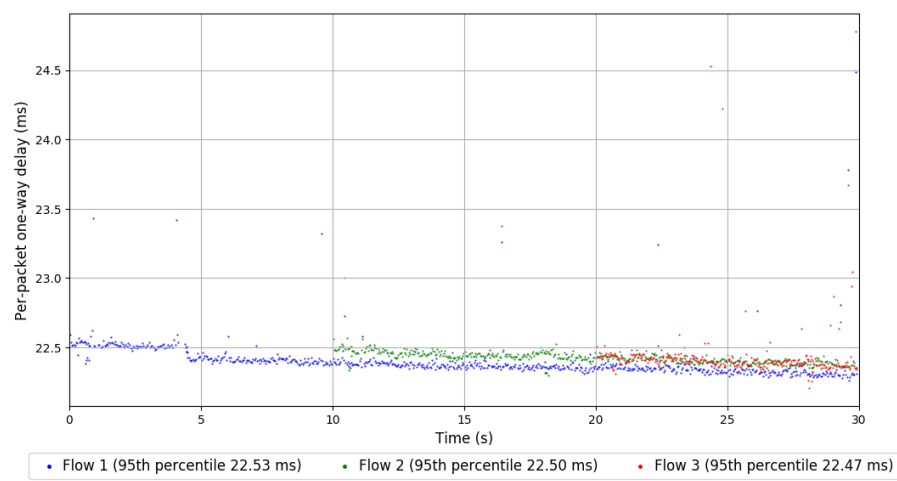
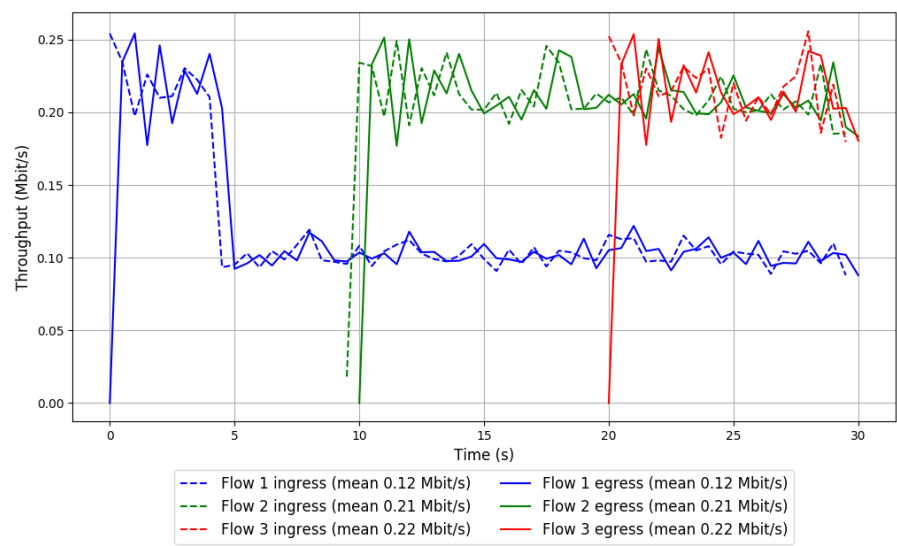


Run 5: Statistics of SReAM

Start at: 2018-06-19 10:23:58
End at: 2018-06-19 10:24:28
Local clock offset: 0.241 ms
Remote clock offset: -6.055 ms

Below is generated by plot.py at 2018-06-19 12:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 22.519 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 22.529 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 22.498 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 22.466 ms
Loss rate: 0.35%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-19 10:43:08

End at: 2018-06-19 10:43:39

Local clock offset: 2.054 ms

Remote clock offset: -6.59 ms

Below is generated by plot.py at 2018-06-19 12:30:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 18.552 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.566 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.516 ms

Loss rate: 0.19%

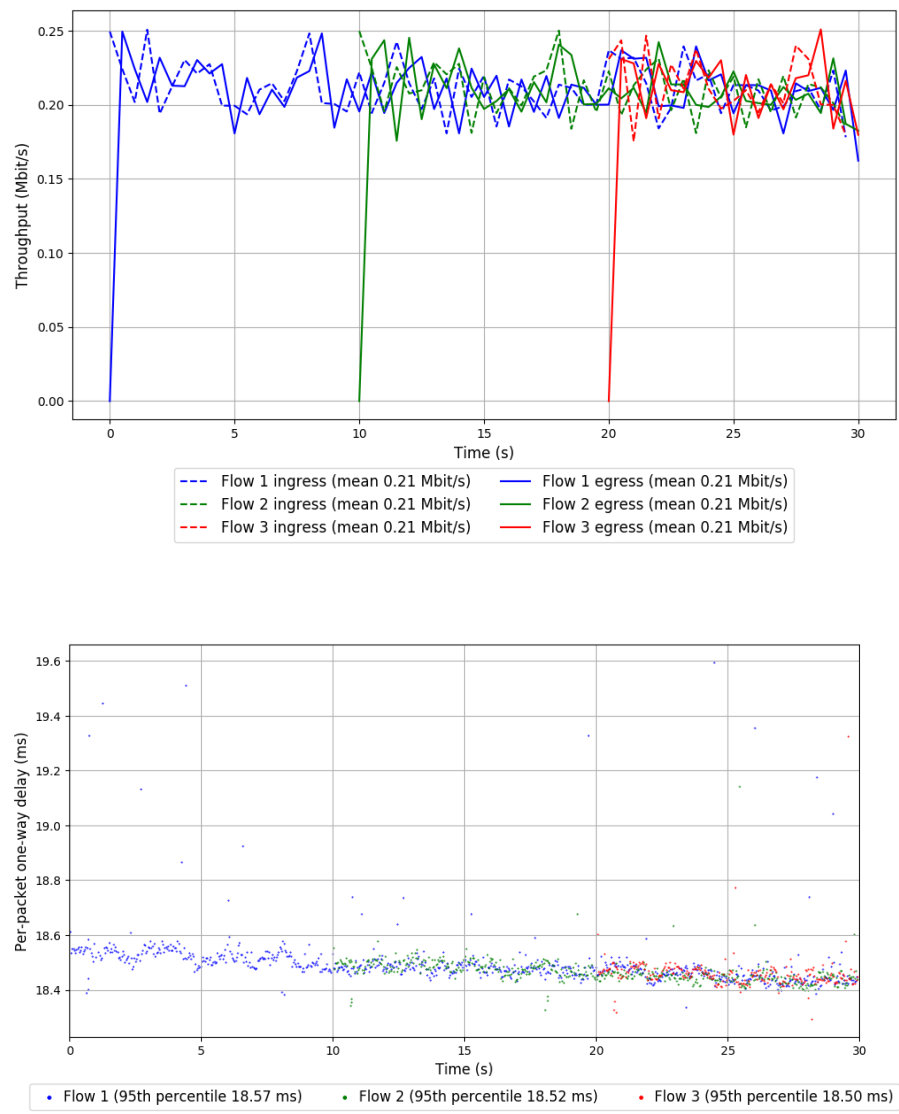
-- Flow 3:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 18.500 ms

Loss rate: 0.00%

Run 6: Report of SCReAM — Data Link

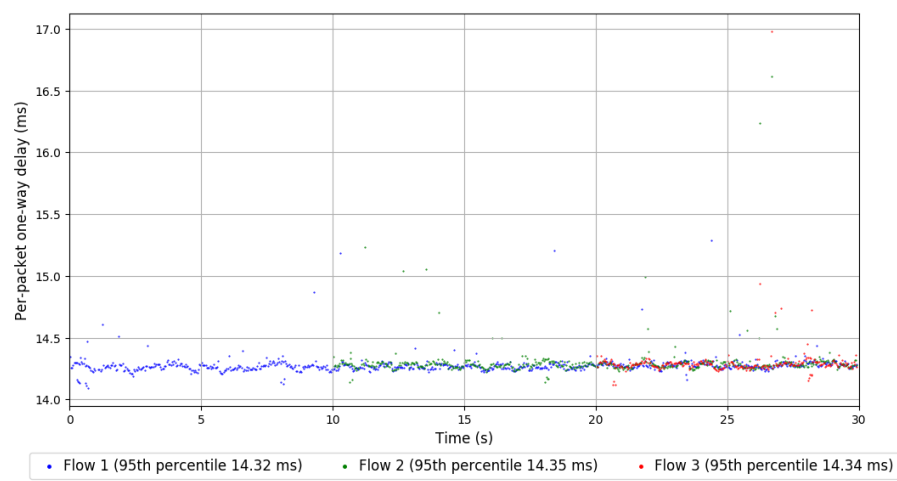
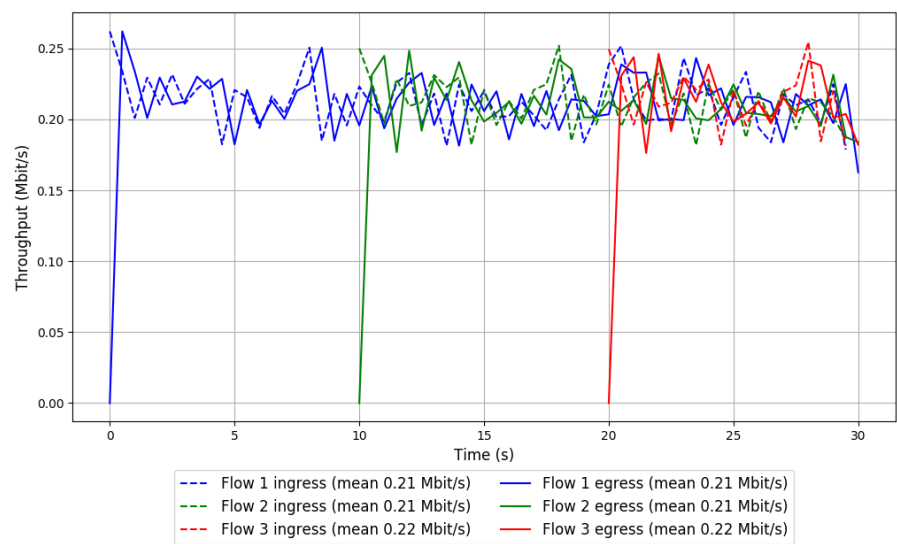


Run 7: Statistics of SReAM

Start at: 2018-06-19 11:02:25
End at: 2018-06-19 11:02:55
Local clock offset: 2.37 ms
Remote clock offset: -4.124 ms

Below is generated by plot.py at 2018-06-19 12:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 14.332 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.318 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.345 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 14.339 ms
Loss rate: 0.36%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-19 11:21:33

End at: 2018-06-19 11:22:03

Local clock offset: 0.625 ms

Remote clock offset: -2.51 ms

Below is generated by plot.py at 2018-06-19 12:30:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 14.612 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.604 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 14.625 ms

Loss rate: 0.19%

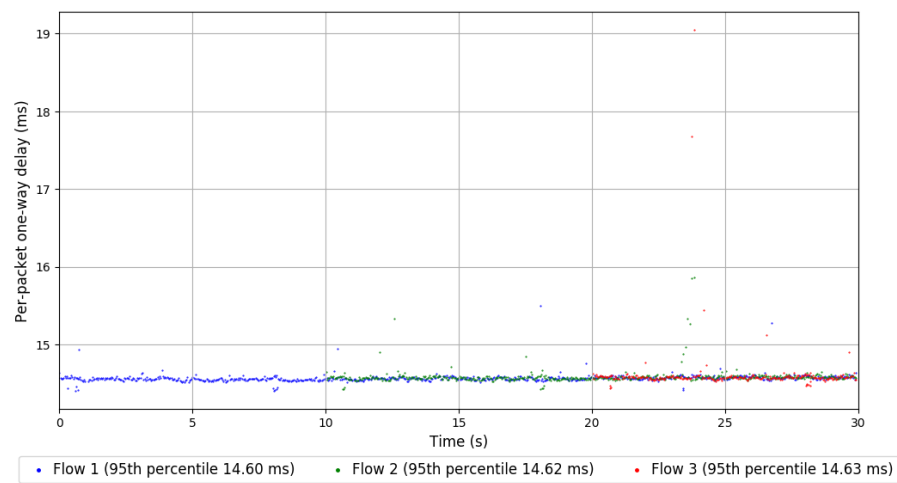
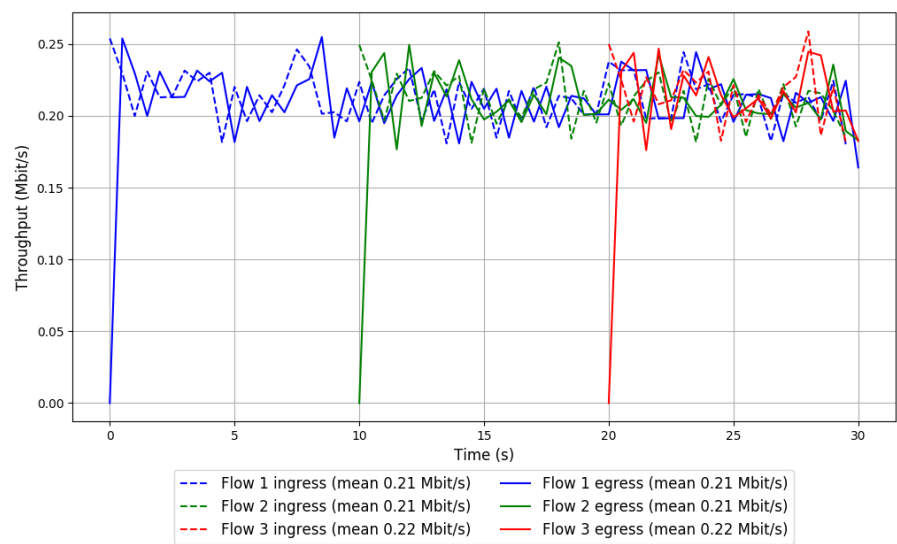
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 14.626 ms

Loss rate: 0.36%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-19 11:40:32

End at: 2018-06-19 11:41:02

Local clock offset: 2.623 ms

Remote clock offset: 0.951 ms

Below is generated by plot.py at 2018-06-19 12:30:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 15.220 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 15.204 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 15.223 ms

Loss rate: 0.19%

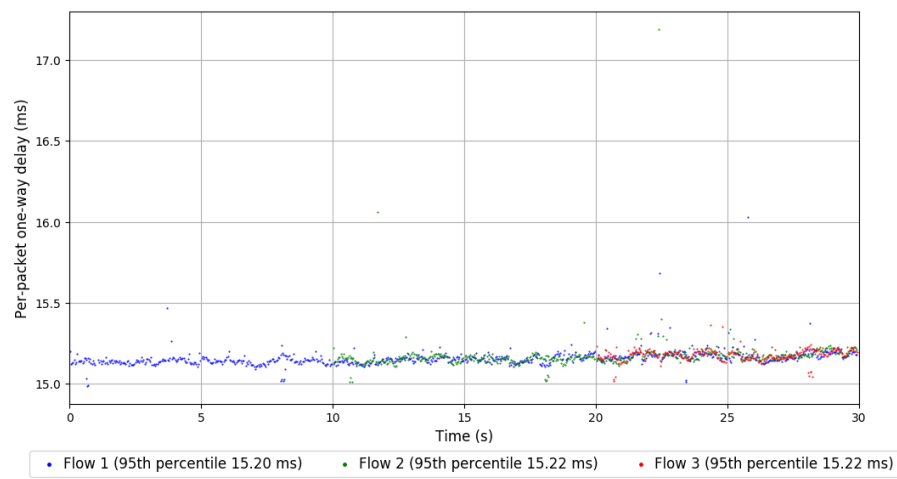
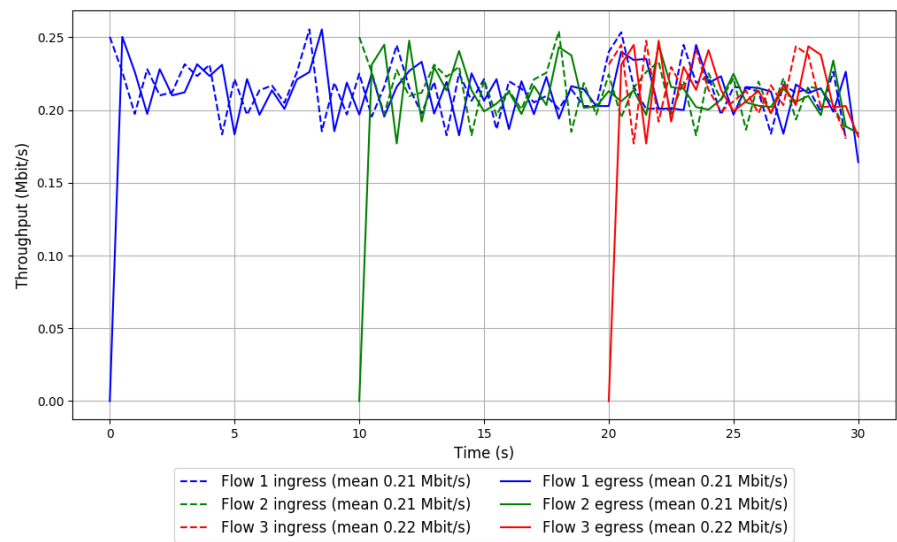
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 15.224 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-06-19 11:59:38

End at: 2018-06-19 12:00:08

Local clock offset: 1.356 ms

Remote clock offset: 1.043 ms

Below is generated by plot.py at 2018-06-19 12:30:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 16.152 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.142 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 16.158 ms

Loss rate: 0.19%

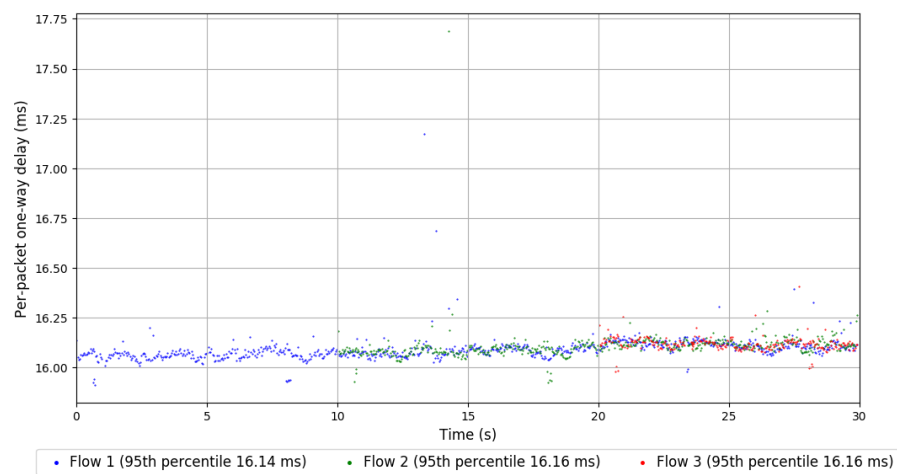
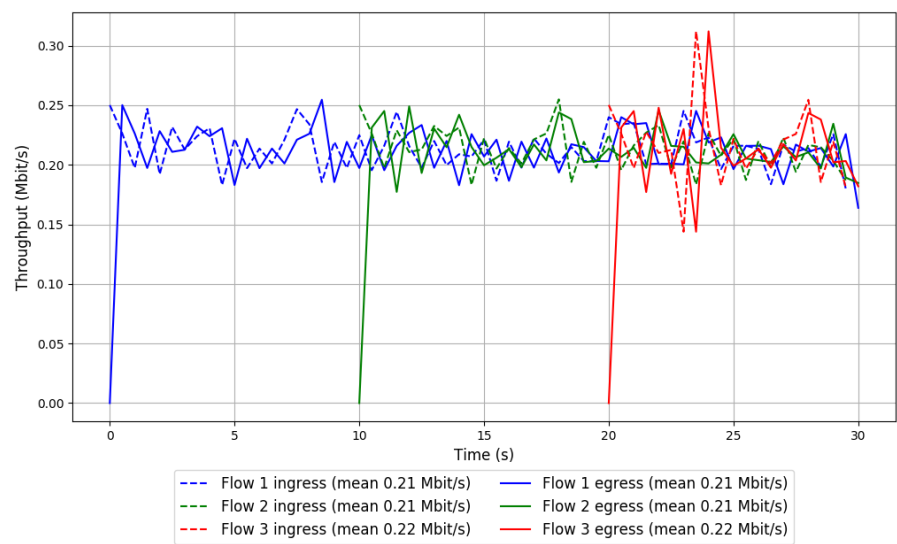
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 16.156 ms

Loss rate: 0.36%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-19 09:04:01

End at: 2018-06-19 09:04:31

Local clock offset: 1.03 ms

Remote clock offset: 0.518 ms

Below is generated by plot.py at 2018-06-19 12:30:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 26.180 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 19.88 Mbit/s

95th percentile per-packet one-way delay: 24.928 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 19.64 Mbit/s

95th percentile per-packet one-way delay: 26.580 ms

Loss rate: 0.24%

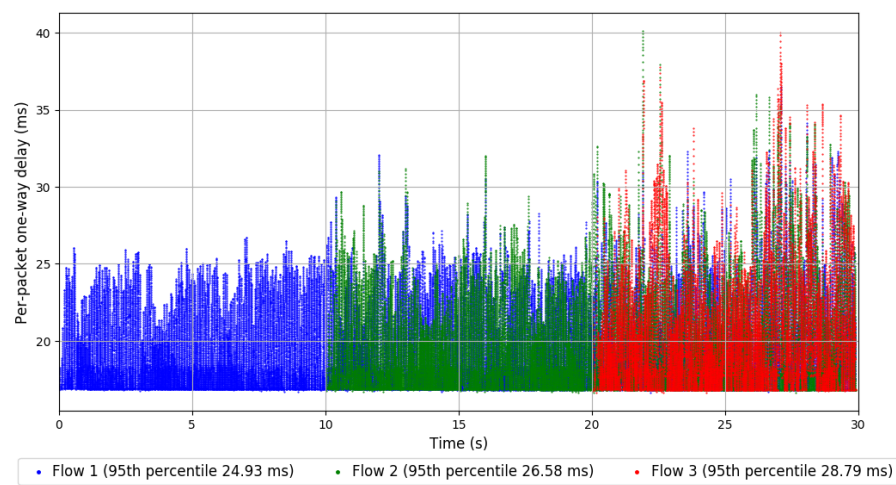
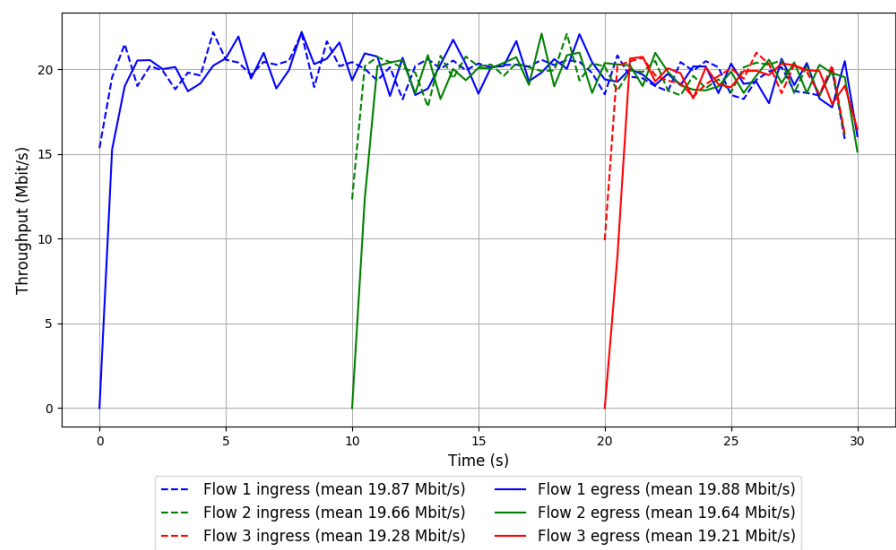
-- Flow 3:

Average throughput: 19.21 Mbit/s

95th percentile per-packet one-way delay: 28.788 ms

Loss rate: 0.44%

Run 1: Report of Sprout — Data Link

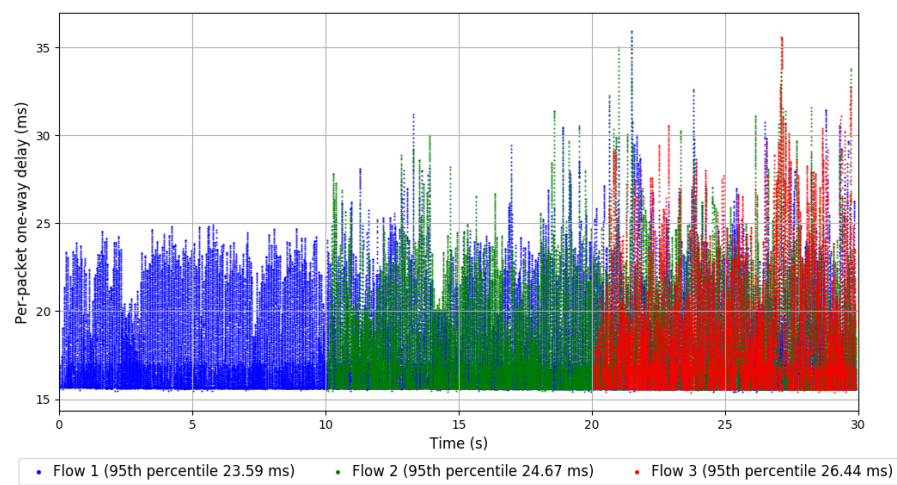
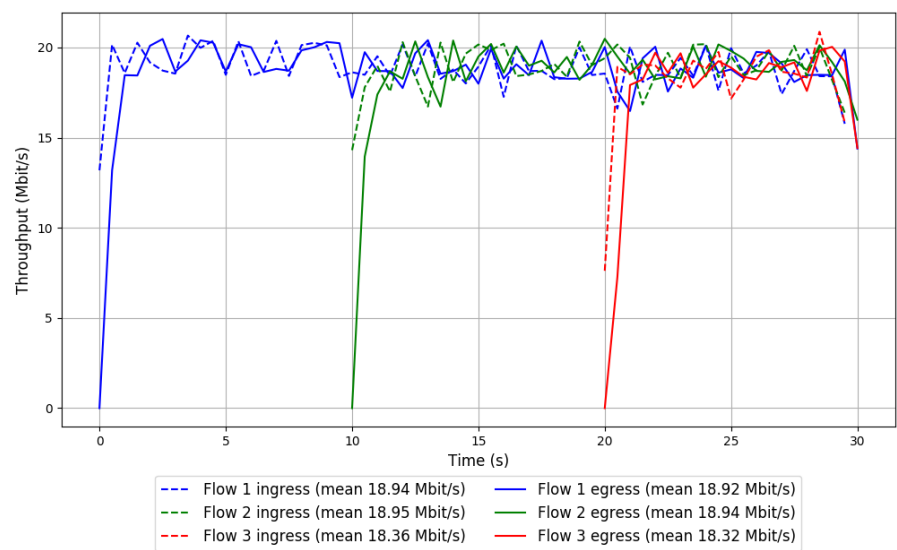


Run 2: Statistics of Sprout

Start at: 2018-06-19 09:22:47
End at: 2018-06-19 09:23:17
Local clock offset: -0.668 ms
Remote clock offset: -4.697 ms

Below is generated by plot.py at 2018-06-19 12:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.55 Mbit/s
95th percentile per-packet one-way delay: 24.434 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 18.92 Mbit/s
95th percentile per-packet one-way delay: 23.586 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 24.670 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 18.32 Mbit/s
95th percentile per-packet one-way delay: 26.438 ms
Loss rate: 0.49%

Run 2: Report of Sprout — Data Link

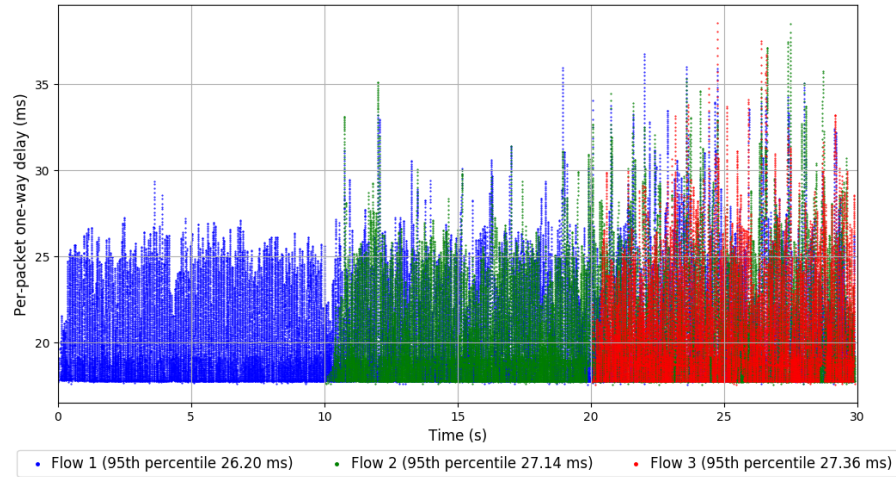
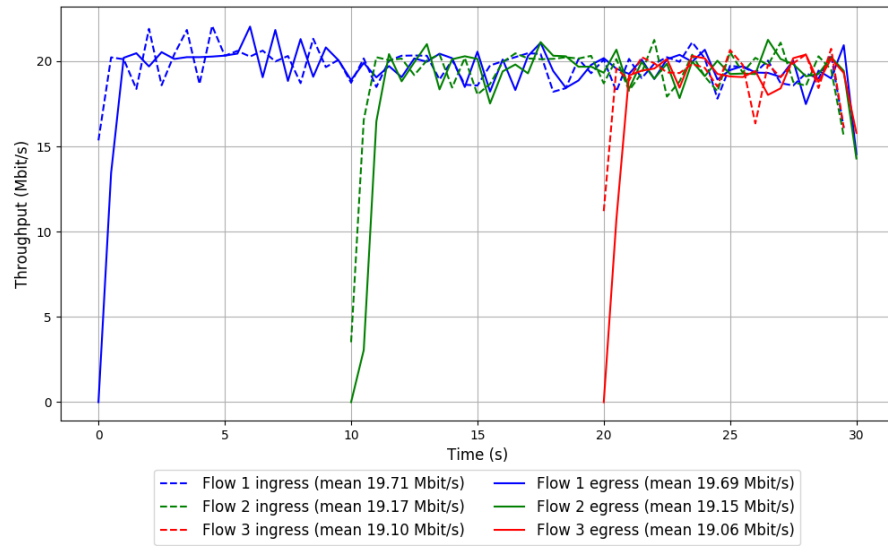


Run 3: Statistics of Sprout

Start at: 2018-06-19 09:41:47
End at: 2018-06-19 09:42:17
Local clock offset: 1.613 ms
Remote clock offset: -6.458 ms

```
# Below is generated by plot.py at 2018-06-19 12:30:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 26.686 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 19.69 Mbit/s
95th percentile per-packet one-way delay: 26.201 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 19.15 Mbit/s
95th percentile per-packet one-way delay: 27.135 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 27.359 ms
Loss rate: 0.45%
```

Run 3: Report of Sprout — Data Link

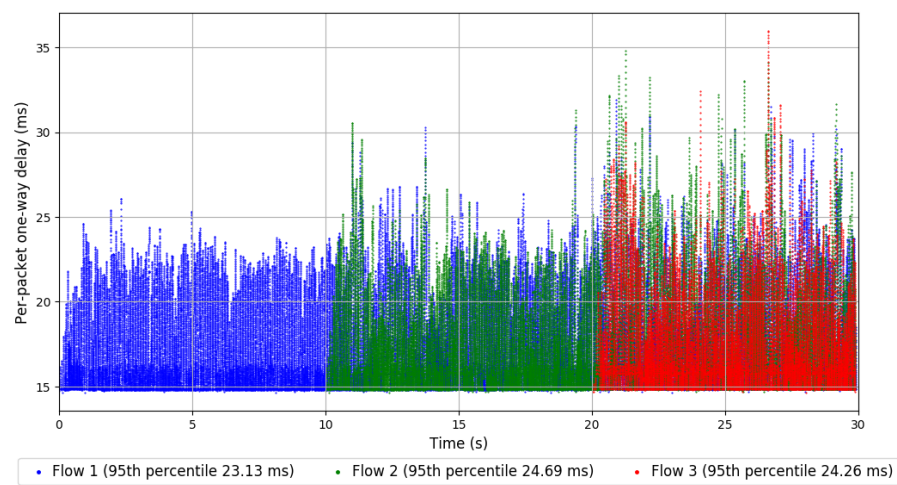
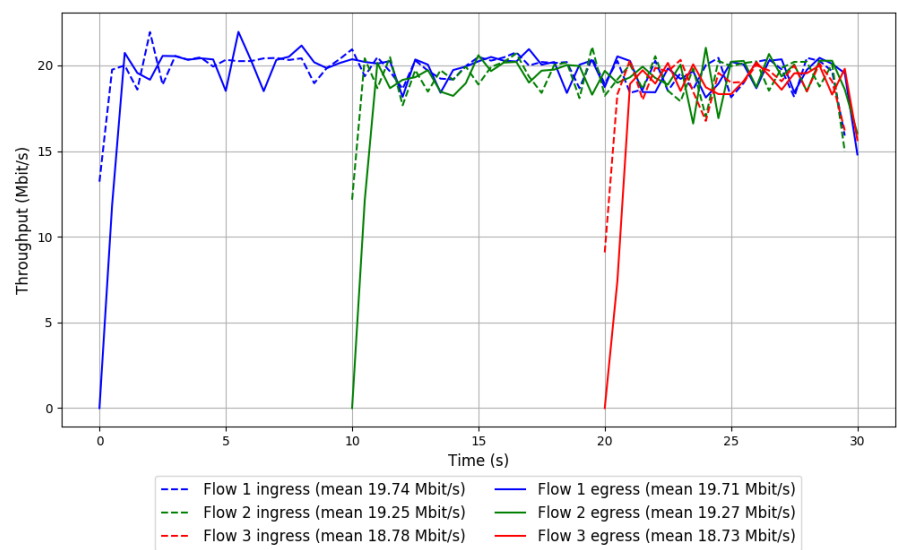


Run 4: Statistics of Sprout

Start at: 2018-06-19 10:00:59
End at: 2018-06-19 10:01:29
Local clock offset: -1.377 ms
Remote clock offset: -3.598 ms

```
# Below is generated by plot.py at 2018-06-19 12:30:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 23.791 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 23.129 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 19.27 Mbit/s
95th percentile per-packet one-way delay: 24.692 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 18.73 Mbit/s
95th percentile per-packet one-way delay: 24.260 ms
Loss rate: 0.49%
```


Run 4: Report of Sprout — Data Link

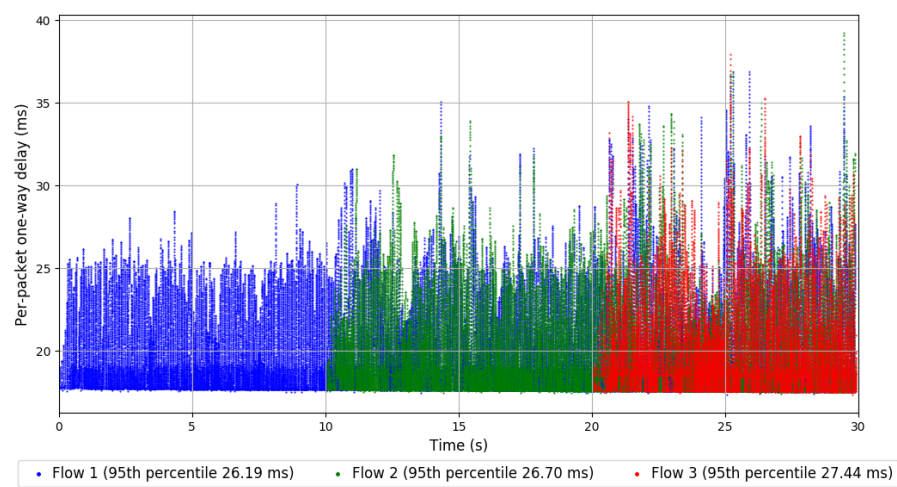
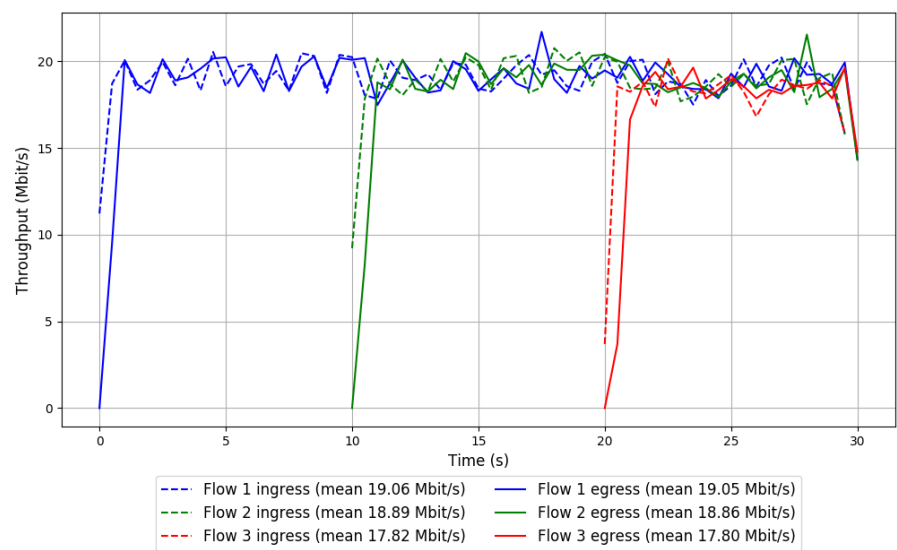


Run 5: Statistics of Sprout

Start at: 2018-06-19 10:20:25
End at: 2018-06-19 10:20:55
Local clock offset: -1.316 ms
Remote clock offset: -3.001 ms

```
# Below is generated by plot.py at 2018-06-19 12:30:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.46 Mbit/s
95th percentile per-packet one-way delay: 26.547 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 19.05 Mbit/s
95th percentile per-packet one-way delay: 26.189 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 18.86 Mbit/s
95th percentile per-packet one-way delay: 26.699 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 17.80 Mbit/s
95th percentile per-packet one-way delay: 27.441 ms
Loss rate: 0.30%
```

Run 5: Report of Sprout — Data Link

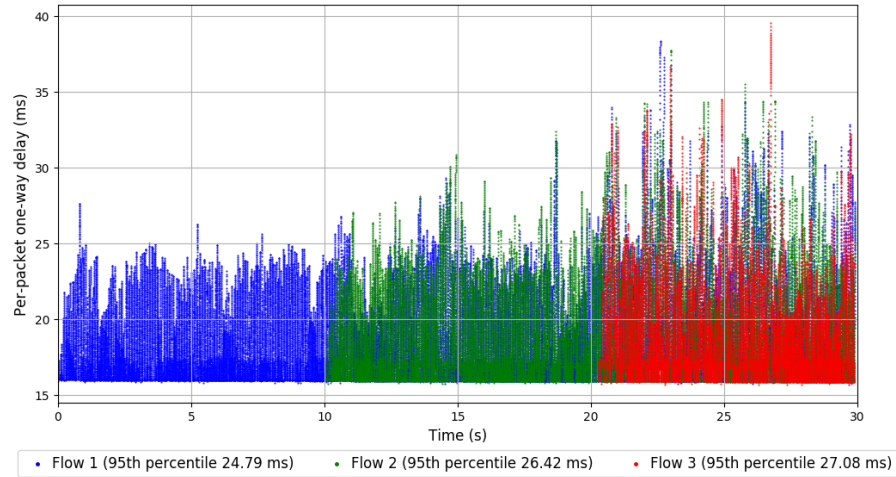
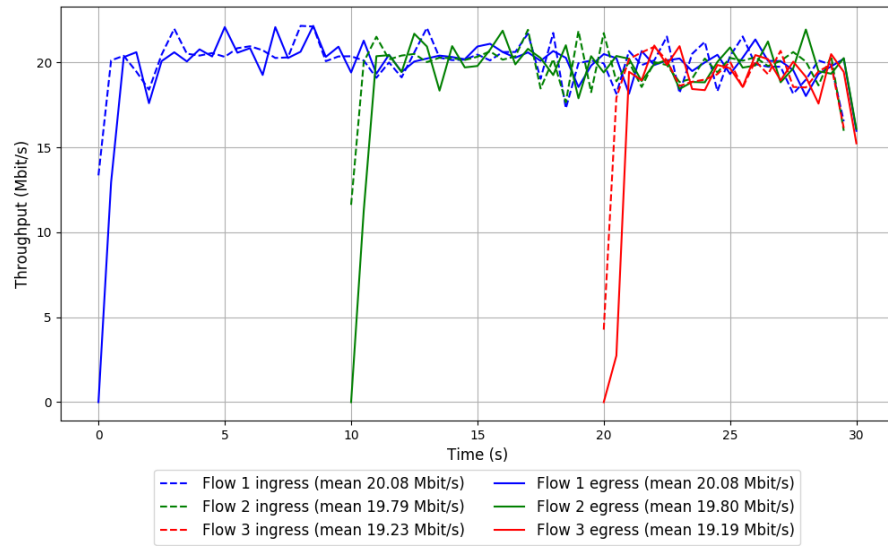


Run 6: Statistics of Sprout

Start at: 2018-06-19 10:39:34
End at: 2018-06-19 10:40:04
Local clock offset: 0.227 ms
Remote clock offset: -7.023 ms

```
# Below is generated by plot.py at 2018-06-19 12:30:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.43 Mbit/s
95th percentile per-packet one-way delay: 25.788 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 20.08 Mbit/s
95th percentile per-packet one-way delay: 24.788 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 26.419 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 19.19 Mbit/s
95th percentile per-packet one-way delay: 27.078 ms
Loss rate: 0.45%
```

Run 6: Report of Sprout — Data Link

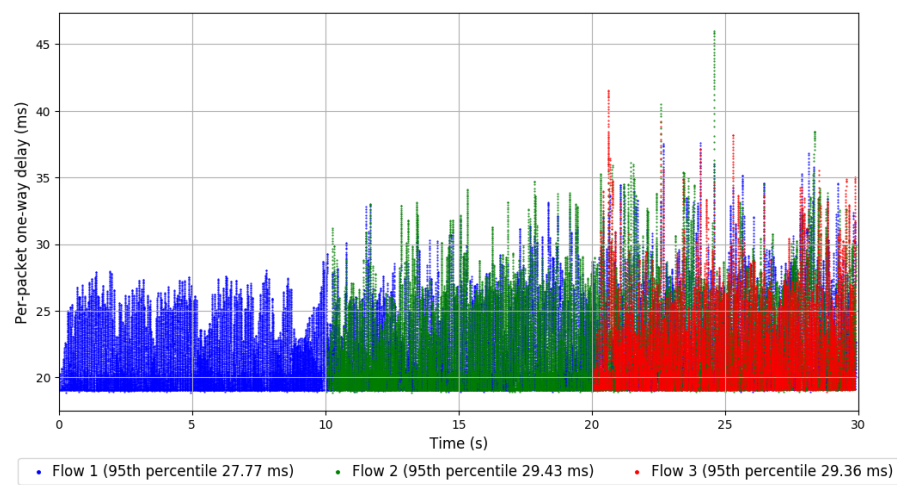
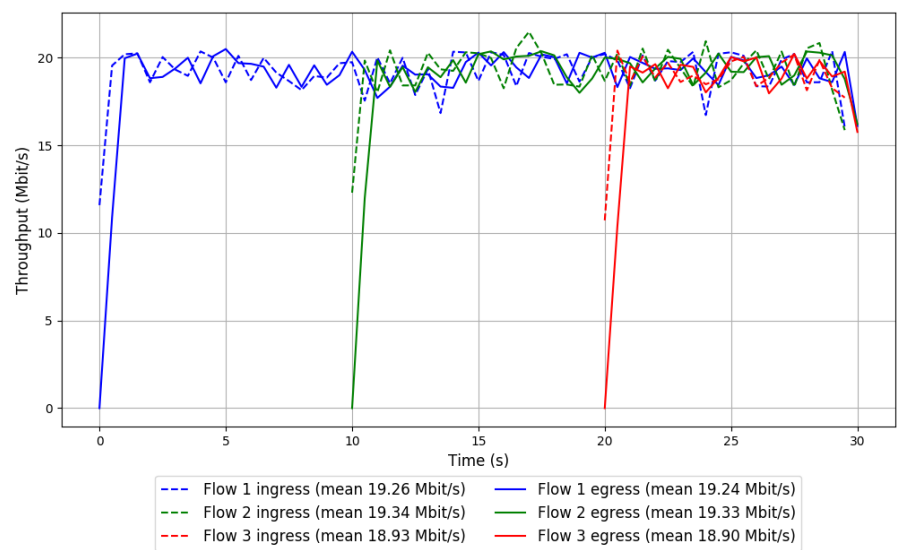


Run 7: Statistics of Sprout

Start at: 2018-06-19 10:58:52
End at: 2018-06-19 10:59:22
Local clock offset: 2.091 ms
Remote clock offset: -9.483 ms

Below is generated by plot.py at 2018-06-19 12:30:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.33 Mbit/s
95th percentile per-packet one-way delay: 28.613 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 19.24 Mbit/s
95th percentile per-packet one-way delay: 27.770 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 19.33 Mbit/s
95th percentile per-packet one-way delay: 29.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.90 Mbit/s
95th percentile per-packet one-way delay: 29.361 ms
Loss rate: 0.52%

Run 7: Report of Sprout — Data Link

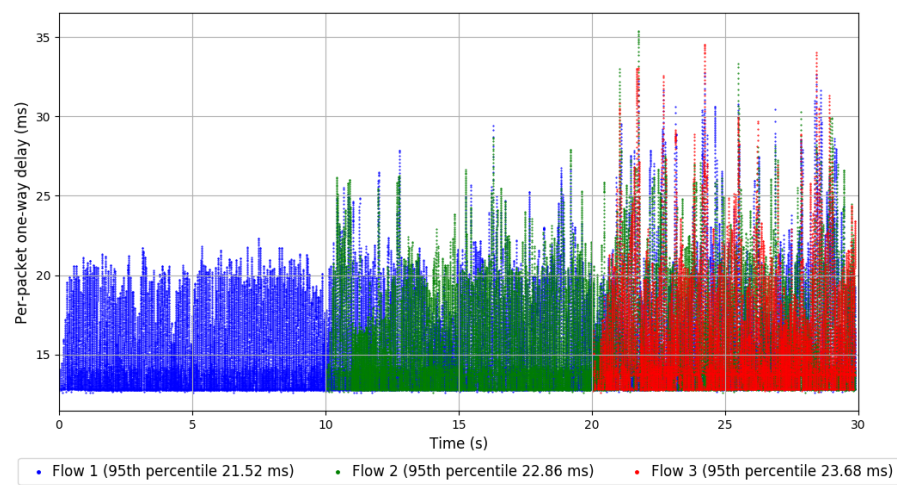
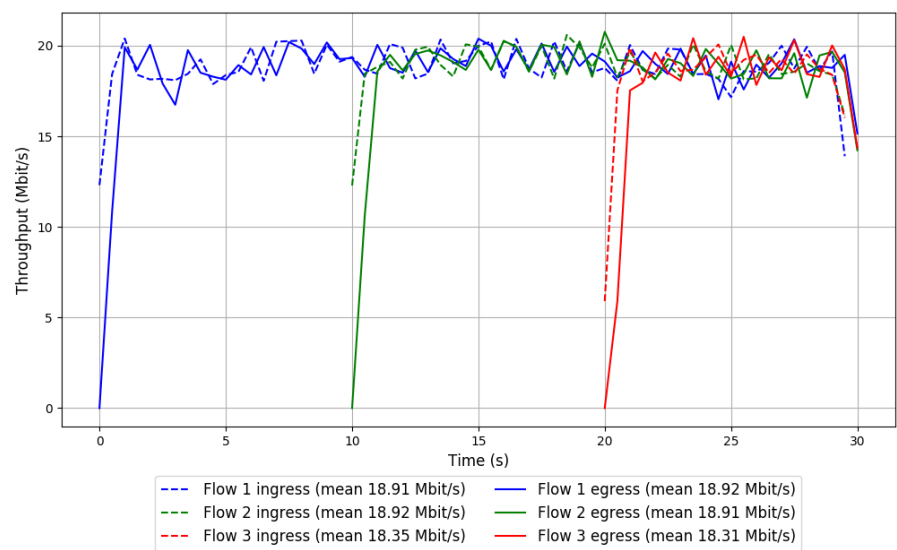


Run 8: Statistics of Sprout

Start at: 2018-06-19 11:17:58
End at: 2018-06-19 11:18:28
Local clock offset: -1.669 ms
Remote clock offset: -3.111 ms

```
# Below is generated by plot.py at 2018-06-19 12:30:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 22.390 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 18.92 Mbit/s
95th percentile per-packet one-way delay: 21.516 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 18.91 Mbit/s
95th percentile per-packet one-way delay: 22.863 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 18.31 Mbit/s
95th percentile per-packet one-way delay: 23.679 ms
Loss rate: 0.46%
```


Run 8: Report of Sprout — Data Link

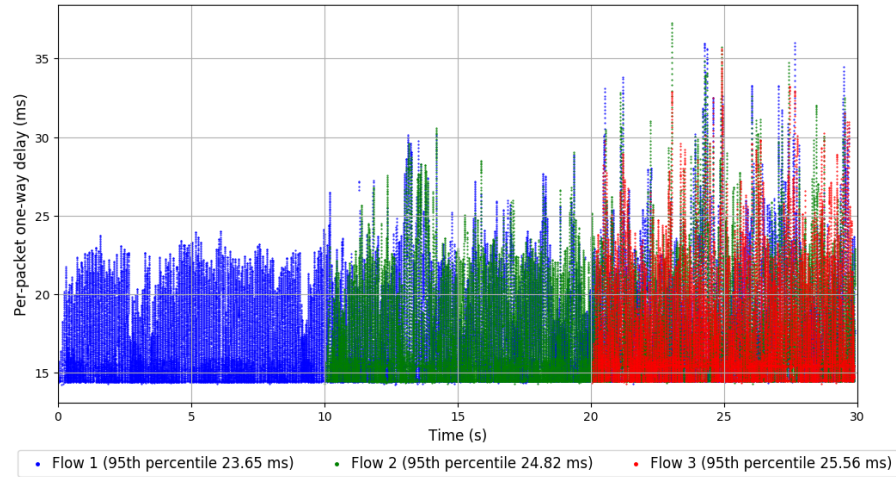
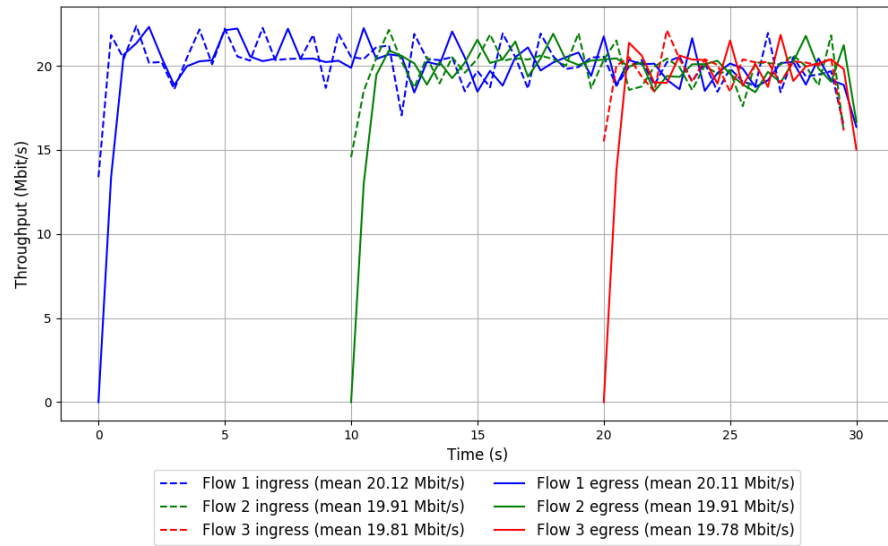


Run 9: Statistics of Sprout

Start at: 2018-06-19 11:37:01
End at: 2018-06-19 11:37:31
Local clock offset: 1.247 ms
Remote clock offset: -0.164 ms

Below is generated by plot.py at 2018-06-19 12:30:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 24.433 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 20.11 Mbit/s
95th percentile per-packet one-way delay: 23.652 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 19.91 Mbit/s
95th percentile per-packet one-way delay: 24.825 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 25.558 ms
Loss rate: 0.45%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-19 11:56:08

End at: 2018-06-19 11:56:38

Local clock offset: 2.862 ms

Remote clock offset: 0.297 ms

Below is generated by plot.py at 2018-06-19 12:30:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.82 Mbit/s

95th percentile per-packet one-way delay: 27.006 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 20.09 Mbit/s

95th percentile per-packet one-way delay: 26.187 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 19.99 Mbit/s

95th percentile per-packet one-way delay: 27.234 ms

Loss rate: 0.04%

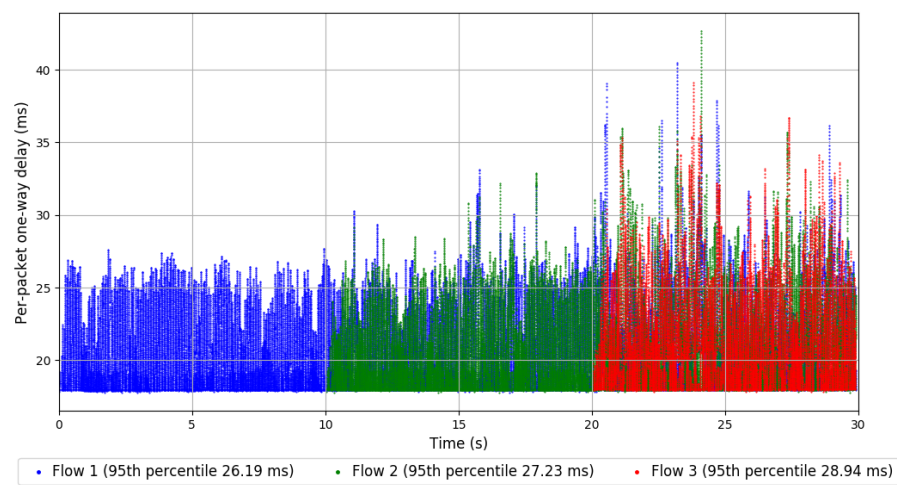
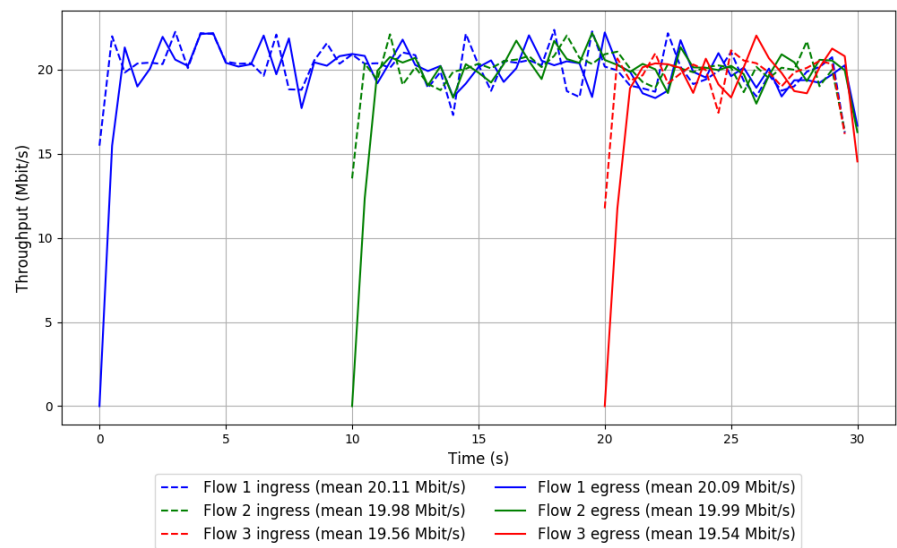
-- Flow 3:

Average throughput: 19.54 Mbit/s

95th percentile per-packet one-way delay: 28.944 ms

Loss rate: 0.51%

Run 10: Report of Sprout — Data Link

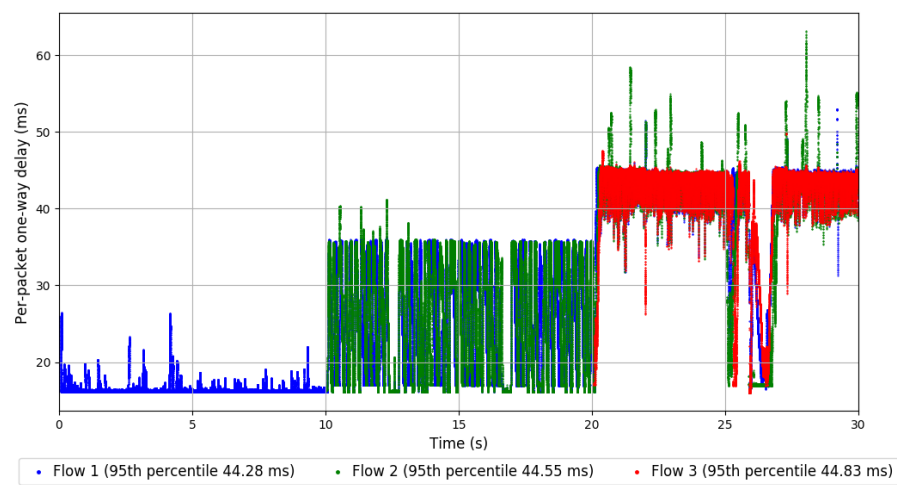
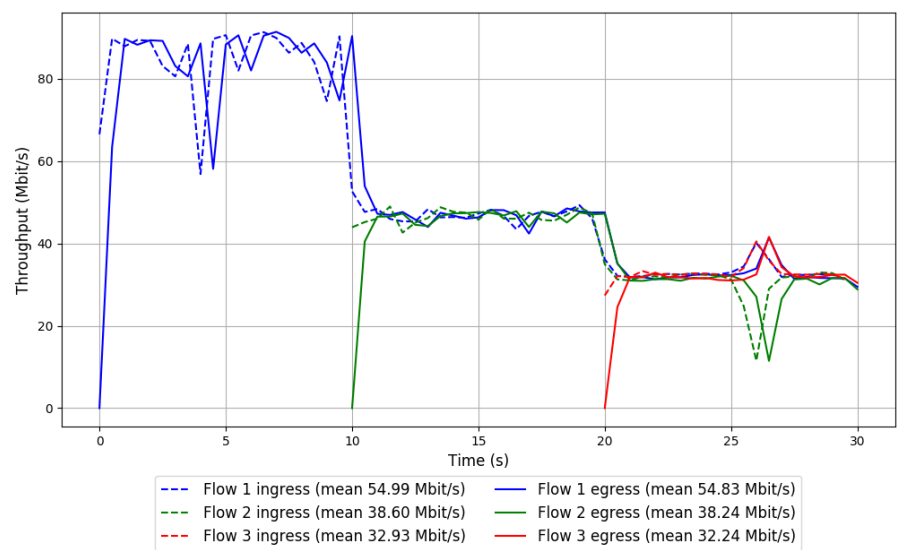


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 09:19:17
End at: 2018-06-19 09:19:47
Local clock offset: -0.599 ms
Remote clock offset: -4.339 ms

# Below is generated by plot.py at 2018-06-19 12:32:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.98 Mbit/s
95th percentile per-packet one-way delay: 44.505 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 54.83 Mbit/s
95th percentile per-packet one-way delay: 44.285 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 38.24 Mbit/s
95th percentile per-packet one-way delay: 44.548 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 44.828 ms
Loss rate: 2.38%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 09:38:08

End at: 2018-06-19 09:38:38

Local clock offset: 0.5 ms

Remote clock offset: -7.07 ms

Below is generated by plot.py at 2018-06-19 12:32:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.29 Mbit/s

95th percentile per-packet one-way delay: 53.055 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 57.88 Mbit/s

95th percentile per-packet one-way delay: 36.660 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 32.43 Mbit/s

95th percentile per-packet one-way delay: 54.895 ms

Loss rate: 0.25%

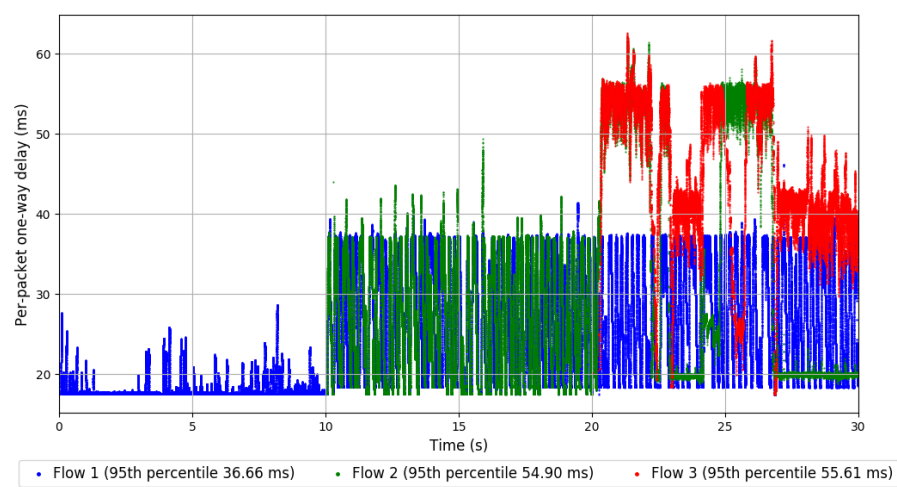
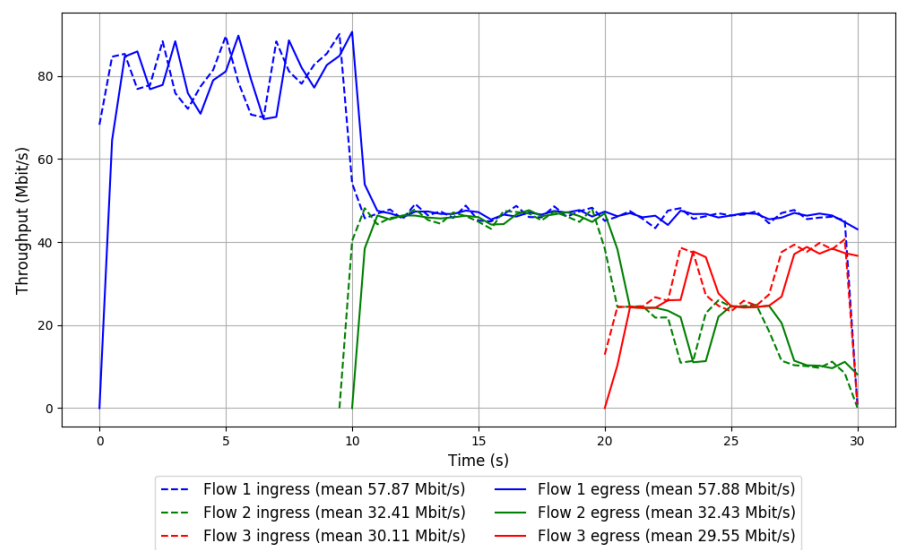
-- Flow 3:

Average throughput: 29.55 Mbit/s

95th percentile per-packet one-way delay: 55.612 ms

Loss rate: 2.54%

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

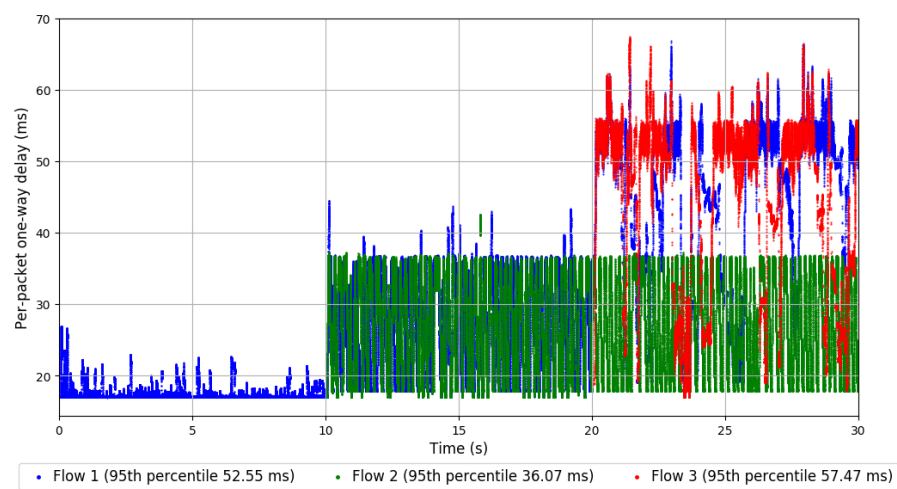
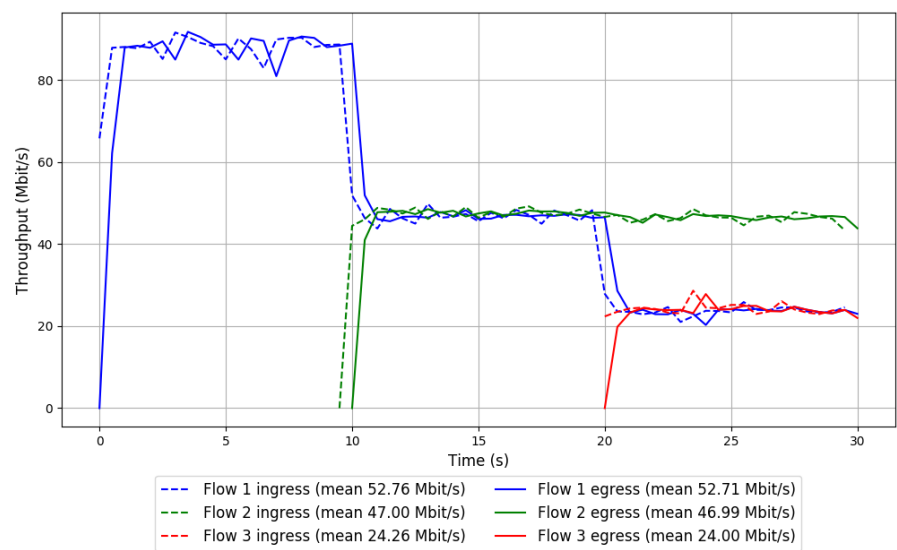


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 09:57:18
End at: 2018-06-19 09:57:48
Local clock offset: 1.334 ms
Remote clock offset: -3.416 ms

Below is generated by plot.py at 2018-06-19 12:32:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.97 Mbit/s
95th percentile per-packet one-way delay: 52.993 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 52.71 Mbit/s
95th percentile per-packet one-way delay: 52.545 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 46.99 Mbit/s
95th percentile per-packet one-way delay: 36.070 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 57.470 ms
Loss rate: 1.44%

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

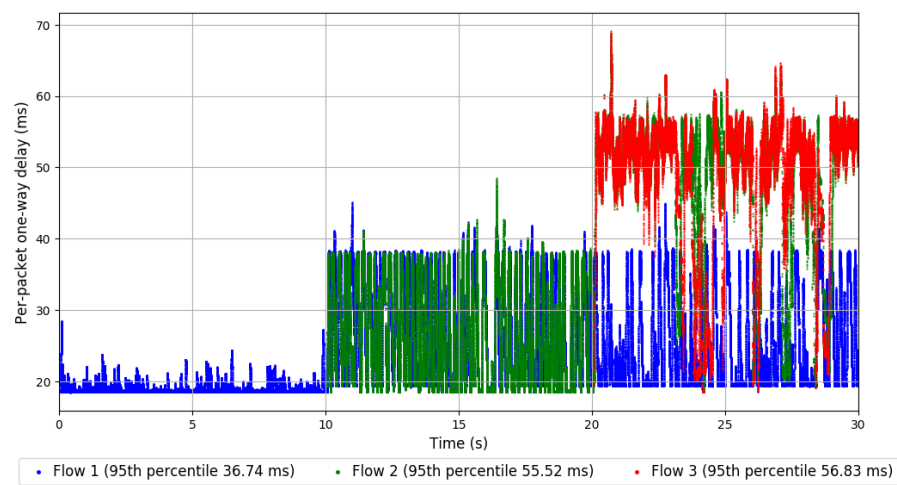
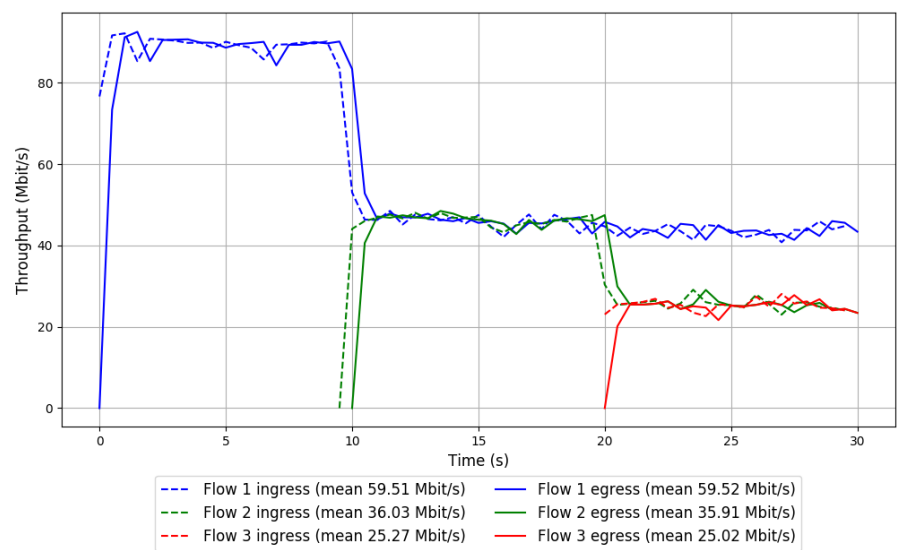


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 10:16:51
End at: 2018-06-19 10:17:21
Local clock offset: 0.267 ms
Remote clock offset: -2.135 ms

Below is generated by plot.py at 2018-06-19 12:32:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.75 Mbit/s
95th percentile per-packet one-way delay: 54.075 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 59.52 Mbit/s
95th percentile per-packet one-way delay: 36.741 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 55.521 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 25.02 Mbit/s
95th percentile per-packet one-way delay: 56.830 ms
Loss rate: 1.44%

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

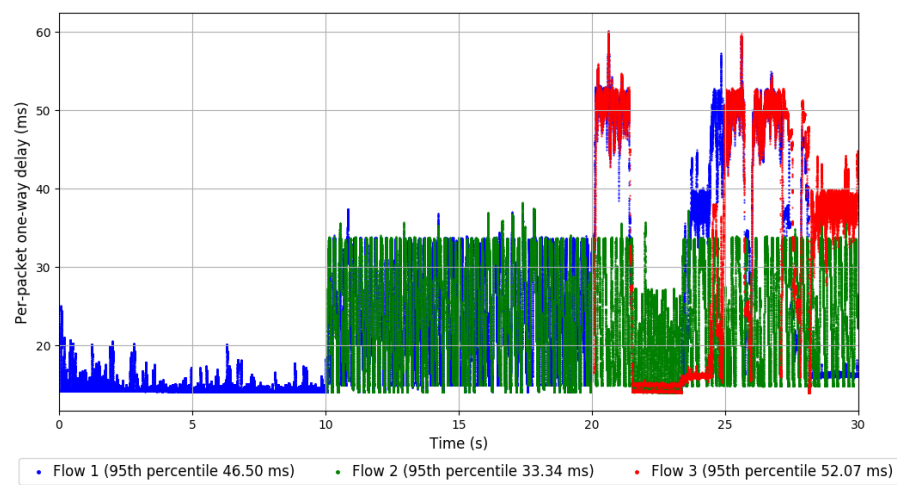
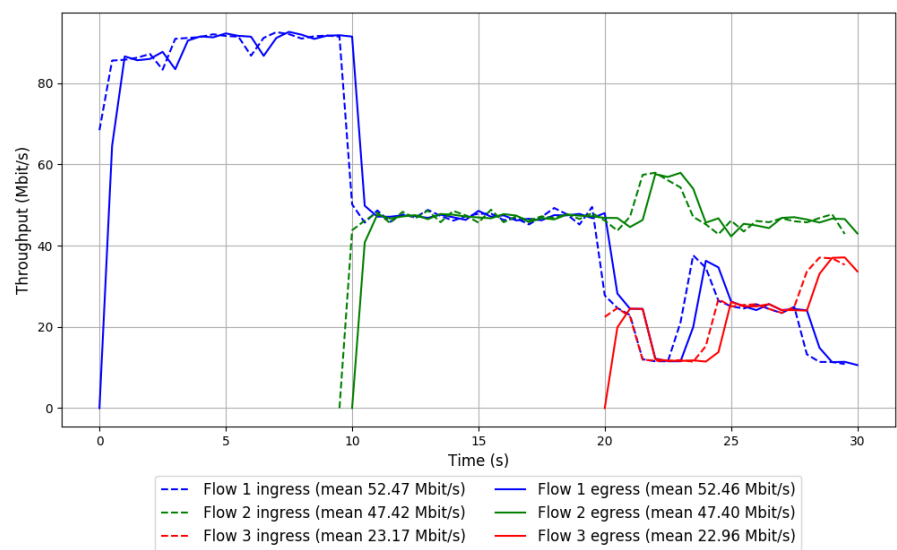


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 10:35:58
End at: 2018-06-19 10:36:28
Local clock offset: -2.521 ms
Remote clock offset: -6.849 ms

Below is generated by plot.py at 2018-06-19 12:32:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.65 Mbit/s
95th percentile per-packet one-way delay: 48.012 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 52.46 Mbit/s
95th percentile per-packet one-way delay: 46.498 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 33.341 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 52.071 ms
Loss rate: 1.26%

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

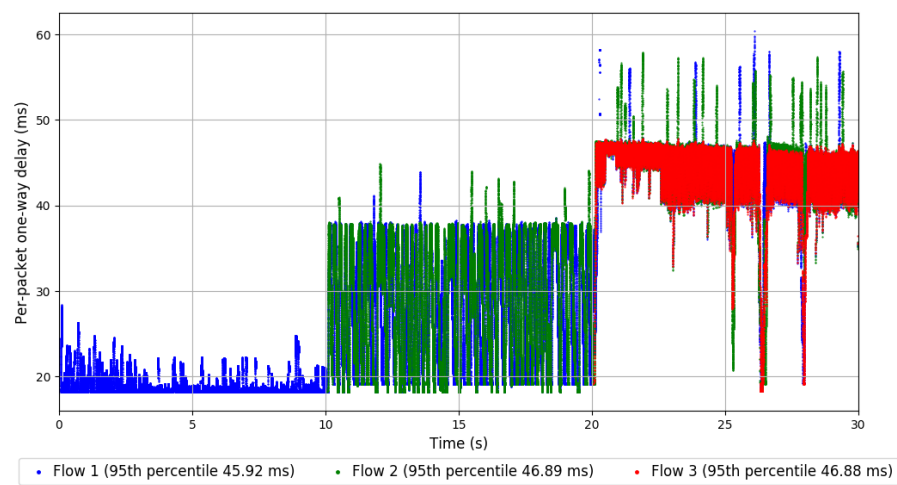
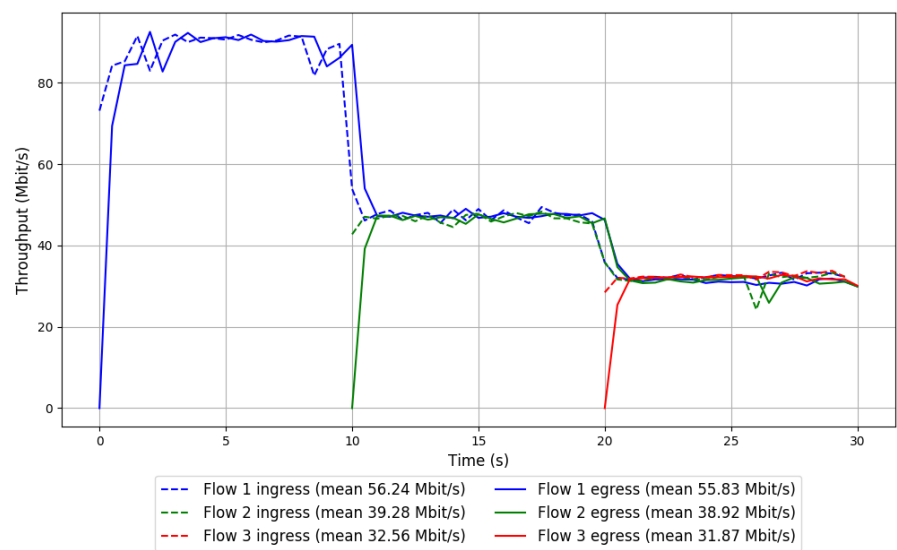


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 10:55:16
End at: 2018-06-19 10:55:46
Local clock offset: 2.172 ms
Remote clock offset: -7.538 ms

Below is generated by plot.py at 2018-06-19 12:32:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 46.594 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 55.83 Mbit/s
95th percentile per-packet one-way delay: 45.925 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 46.892 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 46.881 ms
Loss rate: 2.39%

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

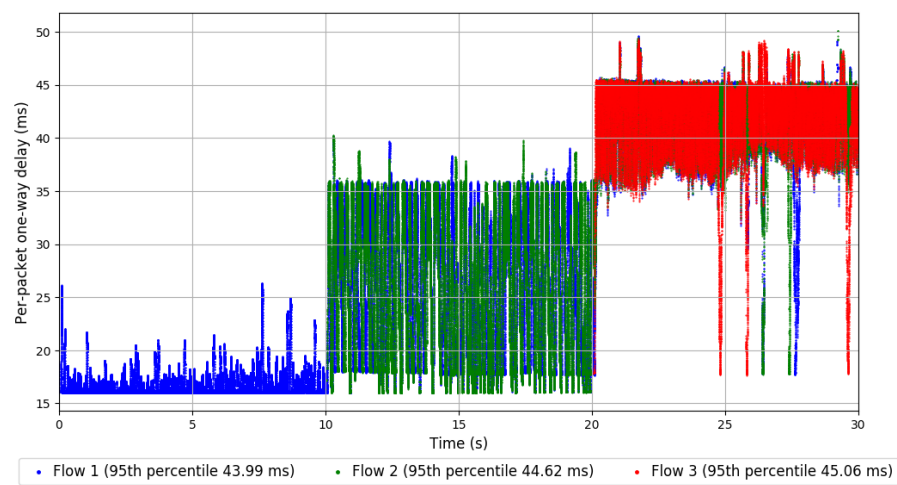
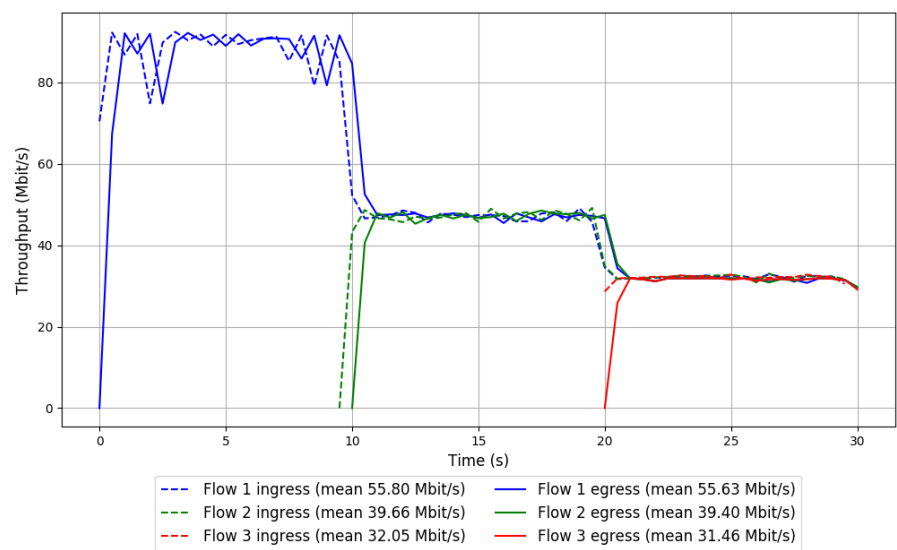


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 11:14:25
End at: 2018-06-19 11:14:55
Local clock offset: 0.578 ms
Remote clock offset: -4.374 ms

Below is generated by plot.py at 2018-06-19 12:32:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 44.521 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 55.63 Mbit/s
95th percentile per-packet one-way delay: 43.989 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 39.40 Mbit/s
95th percentile per-packet one-way delay: 44.618 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 45.065 ms
Loss rate: 2.19%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 11:33:26

End at: 2018-06-19 11:33:56

Local clock offset: -1.852 ms

Remote clock offset: -2.15 ms

Below is generated by plot.py at 2018-06-19 12:32:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 38.985 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 55.95 Mbit/s

95th percentile per-packet one-way delay: 38.474 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 45.43 Mbit/s

95th percentile per-packet one-way delay: 32.407 ms

Loss rate: 0.17%

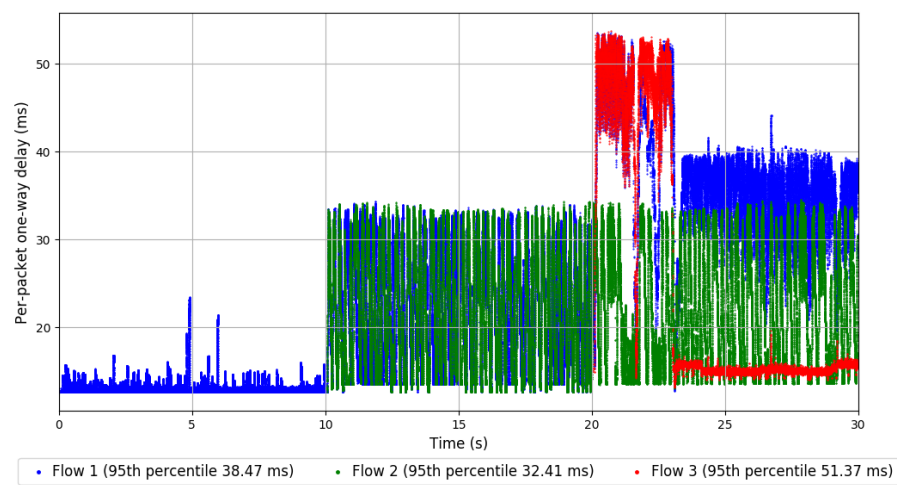
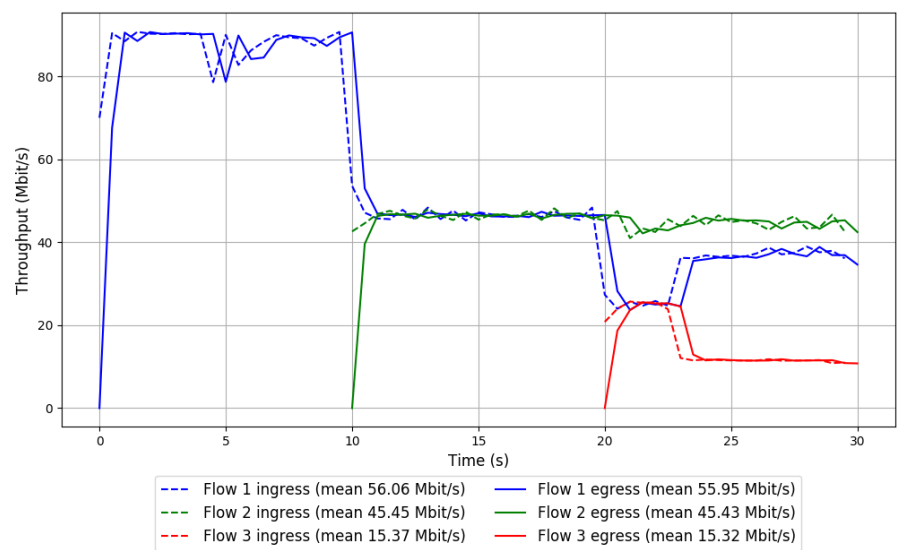
-- Flow 3:

Average throughput: 15.32 Mbit/s

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

Loss rate: 0.58%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 11:52:22

End at: 2018-06-19 11:52:52

Local clock offset: -1.318 ms

Remote clock offset: 1.193 ms

Below is generated by plot.py at 2018-06-19 12:34:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.41 Mbit/s

95th percentile per-packet one-way delay: 49.168 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 56.27 Mbit/s

95th percentile per-packet one-way delay: 47.752 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 34.11 Mbit/s

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

Loss rate: 0.39%

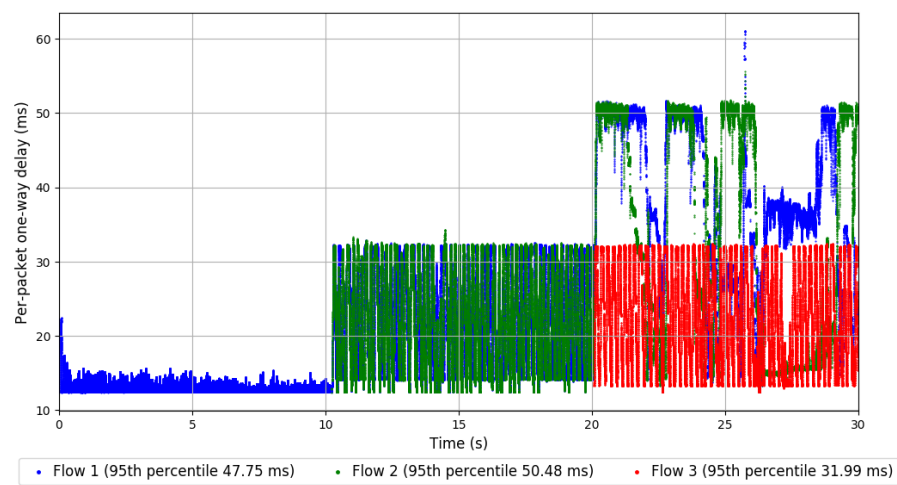
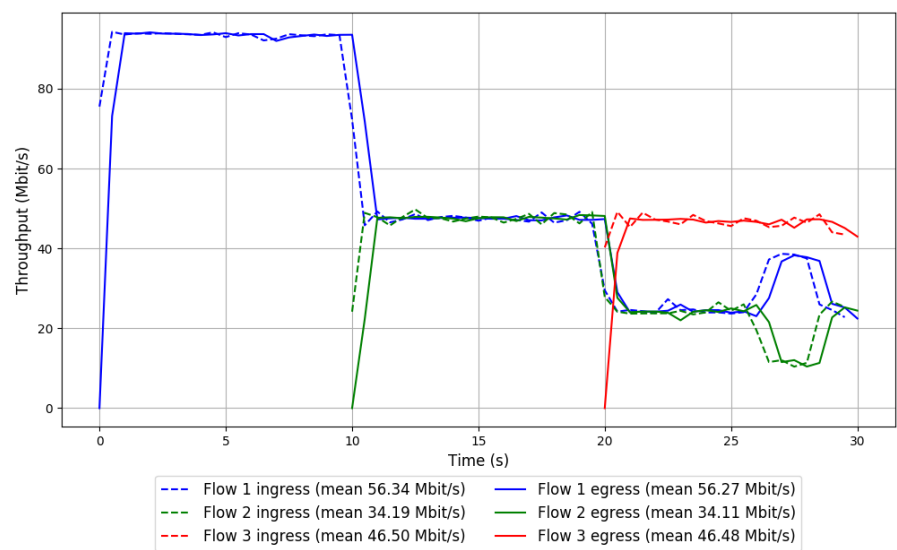
-- Flow 3:

Average throughput: 46.48 Mbit/s

95th percentile per-packet one-way delay: 31.986 ms

Loss rate: 0.29%

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

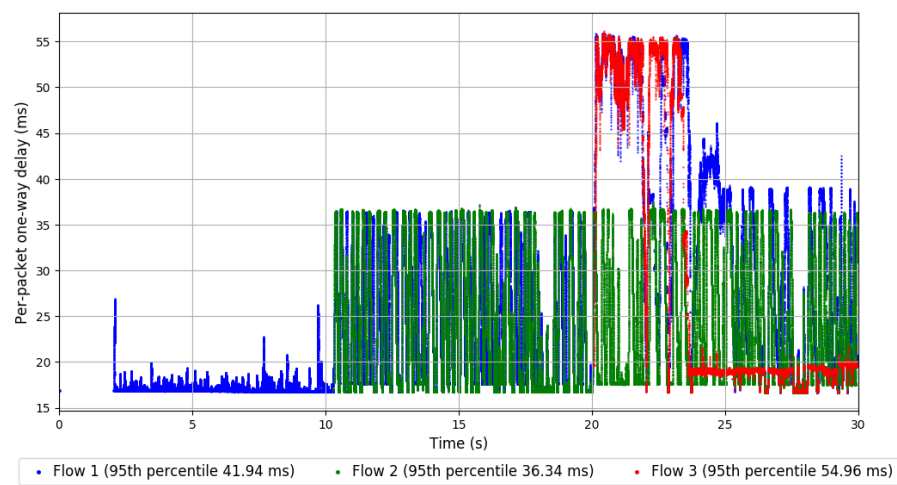
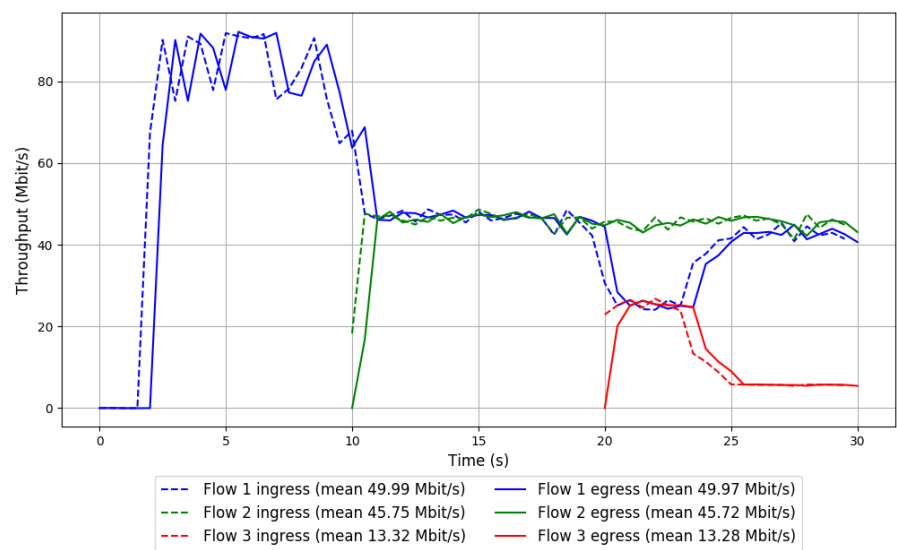


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 12:11:52
End at: 2018-06-19 12:12:22
Local clock offset: -0.493 ms
Remote clock offset: -5.652 ms

Below is generated by plot.py at 2018-06-19 12:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 48.399 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 49.97 Mbit/s
95th percentile per-packet one-way delay: 41.937 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 45.72 Mbit/s
95th percentile per-packet one-way delay: 36.335 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 54.959 ms
Loss rate: 0.68%

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

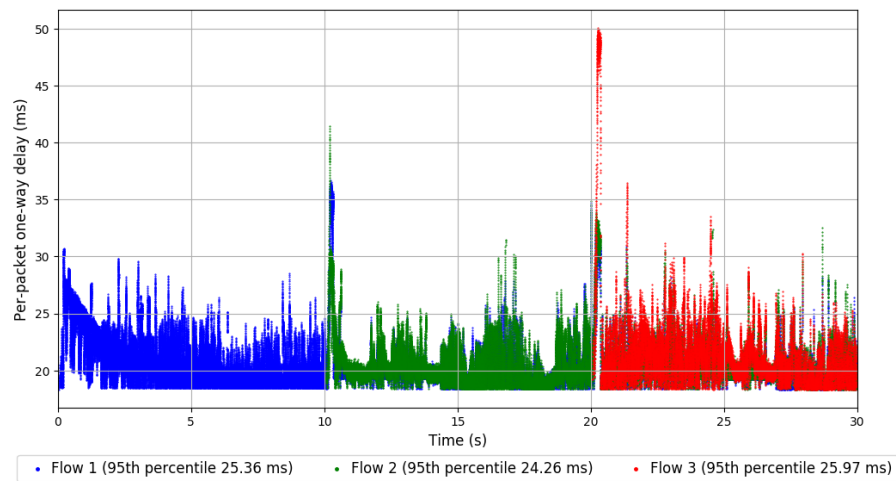
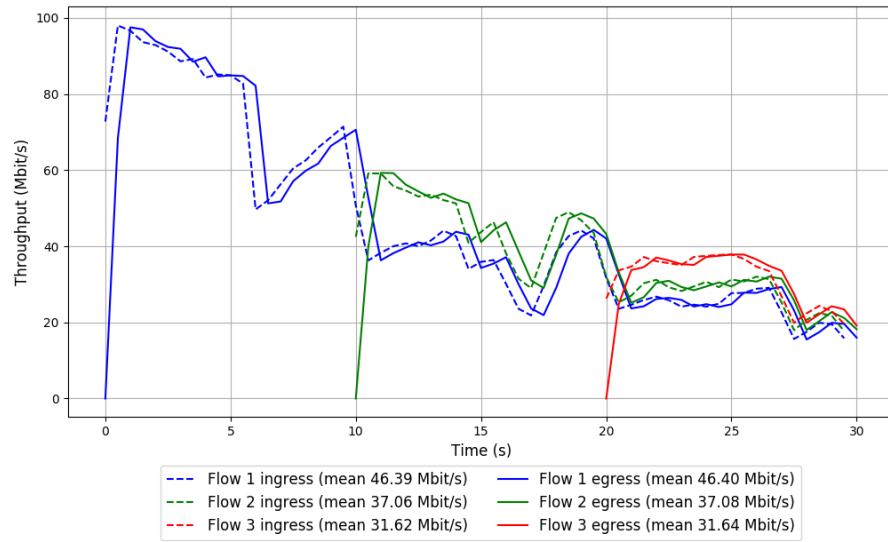


Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 09:17:00
End at: 2018-06-19 09:17:30
Local clock offset: 1.904 ms
Remote clock offset: -3.428 ms

Below is generated by plot.py at 2018-06-19 12:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.58 Mbit/s
95th percentile per-packet one-way delay: 25.205 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 46.40 Mbit/s
95th percentile per-packet one-way delay: 25.360 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 37.08 Mbit/s
95th percentile per-packet one-way delay: 24.256 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 25.970 ms
Loss rate: 0.17%

Run 1: Report of TCP Vegas — Data Link

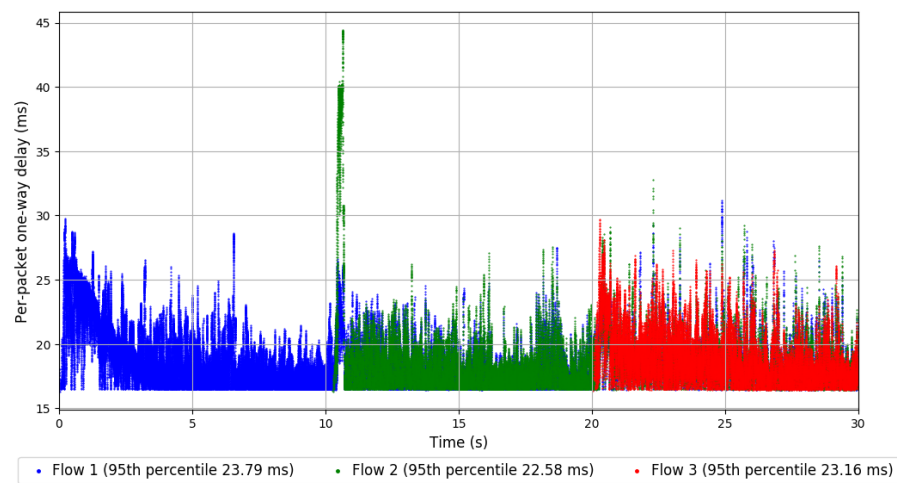
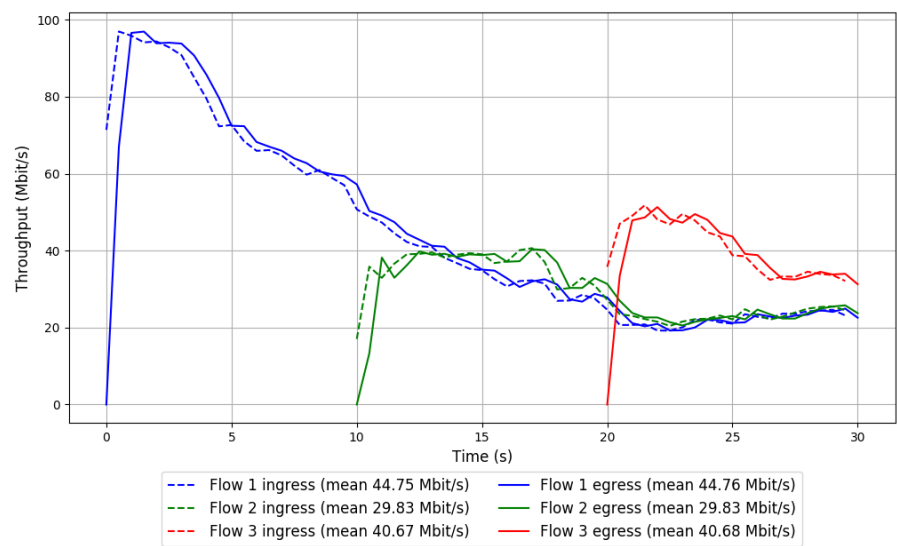


Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 09:35:52
End at: 2018-06-19 09:36:22
Local clock offset: 1.599 ms
Remote clock offset: -4.822 ms

Below is generated by plot.py at 2018-06-19 12:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.88 Mbit/s
95th percentile per-packet one-way delay: 23.497 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 23.791 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 22.584 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 23.155 ms
Loss rate: 0.23%

Run 2: Report of TCP Vegas — Data Link

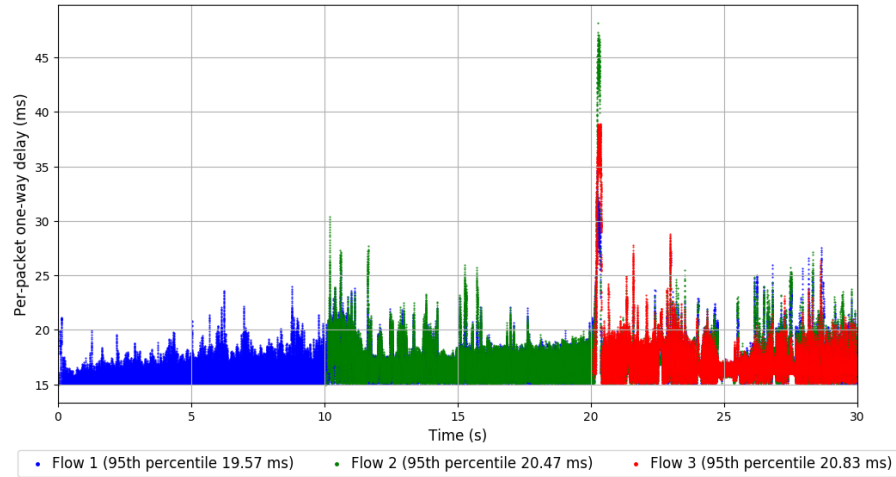
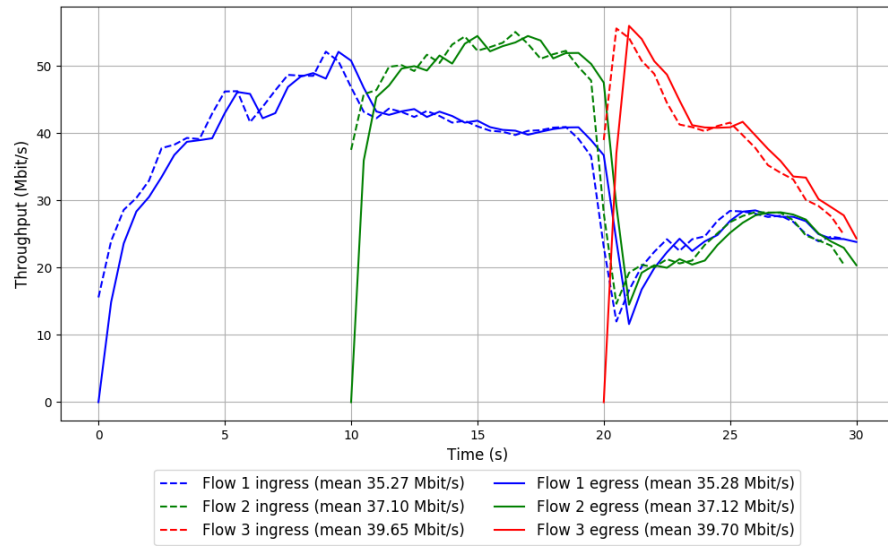


Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 09:54:59
End at: 2018-06-19 09:55:29
Local clock offset: -1.843 ms
Remote clock offset: -3.375 ms

Below is generated by plot.py at 2018-06-19 12:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.15 Mbit/s
95th percentile per-packet one-way delay: 20.042 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 35.28 Mbit/s
95th percentile per-packet one-way delay: 19.566 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 20.471 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 20.831 ms
Loss rate: 0.20%

Run 3: Report of TCP Vegas — Data Link

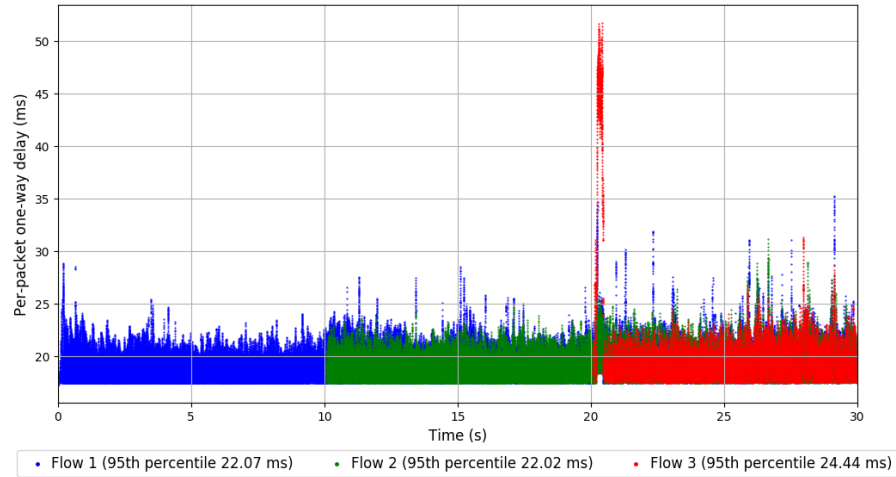
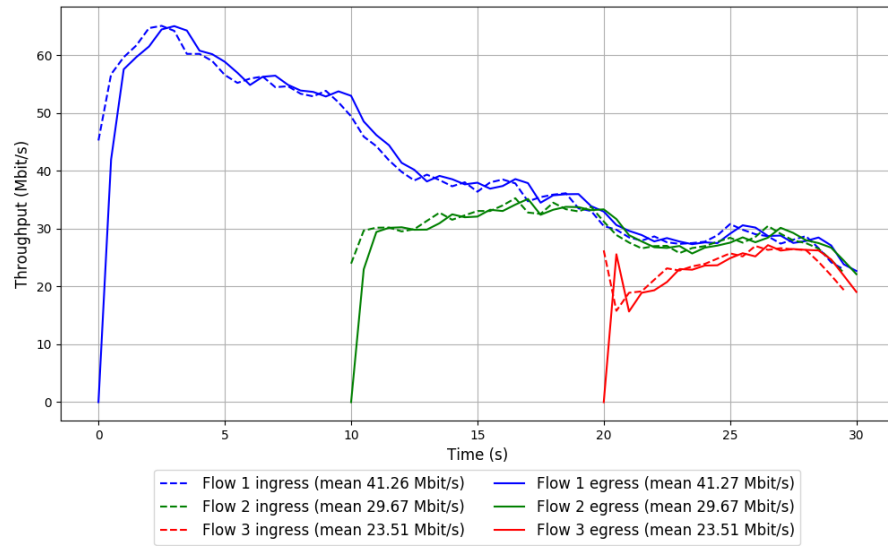


Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 10:14:35
End at: 2018-06-19 10:15:05
Local clock offset: -1.687 ms
Remote clock offset: -3.197 ms

Below is generated by plot.py at 2018-06-19 12:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.83 Mbit/s
95th percentile per-packet one-way delay: 22.164 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 41.27 Mbit/s
95th percentile per-packet one-way delay: 22.065 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 29.67 Mbit/s
95th percentile per-packet one-way delay: 22.023 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 23.51 Mbit/s
95th percentile per-packet one-way delay: 24.443 ms
Loss rate: 0.26%

Run 4: Report of TCP Vegas — Data Link

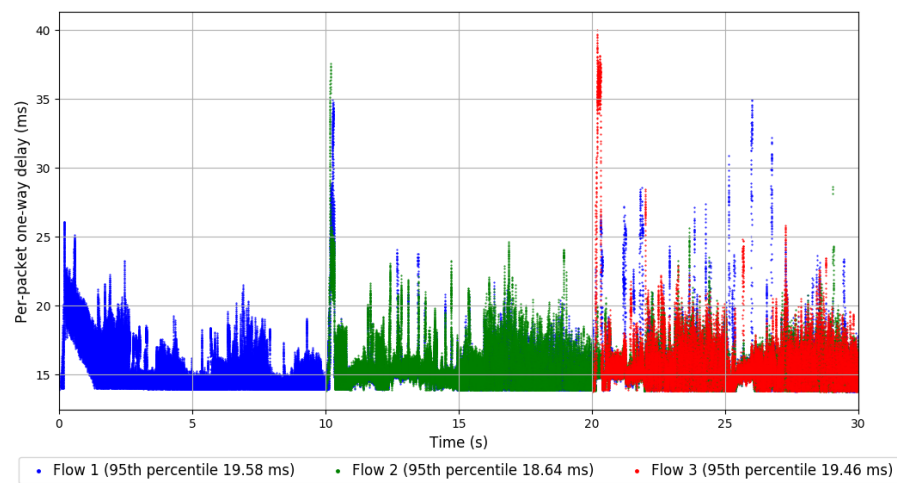
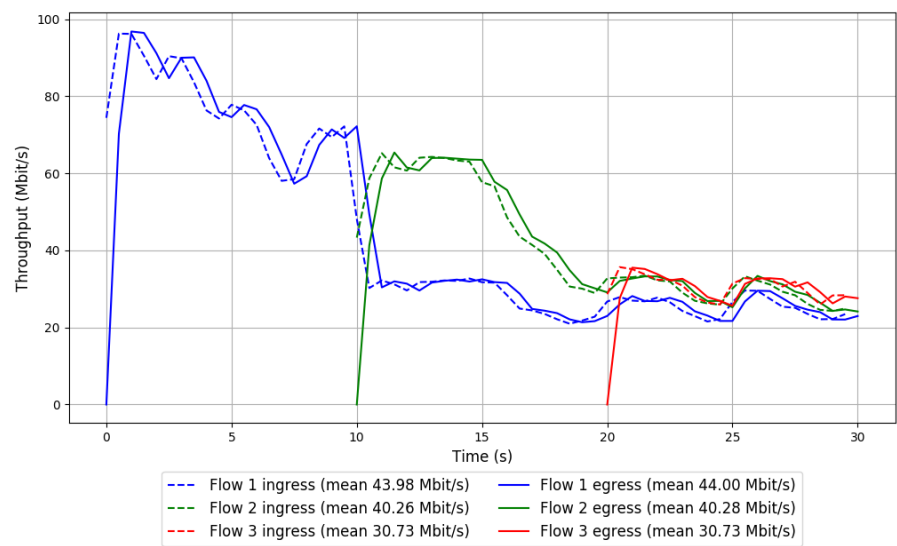


Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 10:33:40
End at: 2018-06-19 10:34:10
Local clock offset: -2.814 ms
Remote clock offset: -5.953 ms

Below is generated by plot.py at 2018-06-19 12:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.02 Mbit/s
95th percentile per-packet one-way delay: 19.287 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.00 Mbit/s
95th percentile per-packet one-way delay: 19.577 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 40.28 Mbit/s
95th percentile per-packet one-way delay: 18.644 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 30.73 Mbit/s
95th percentile per-packet one-way delay: 19.458 ms
Loss rate: 0.27%

Run 5: Report of TCP Vegas — Data Link

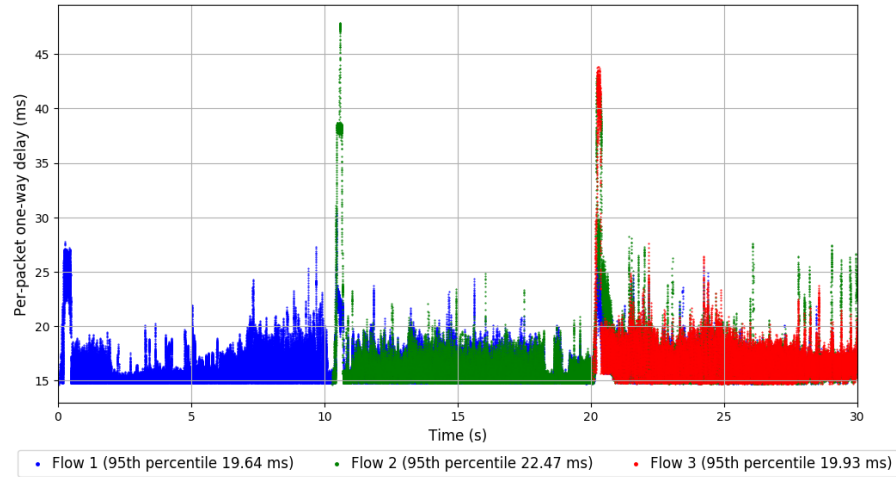
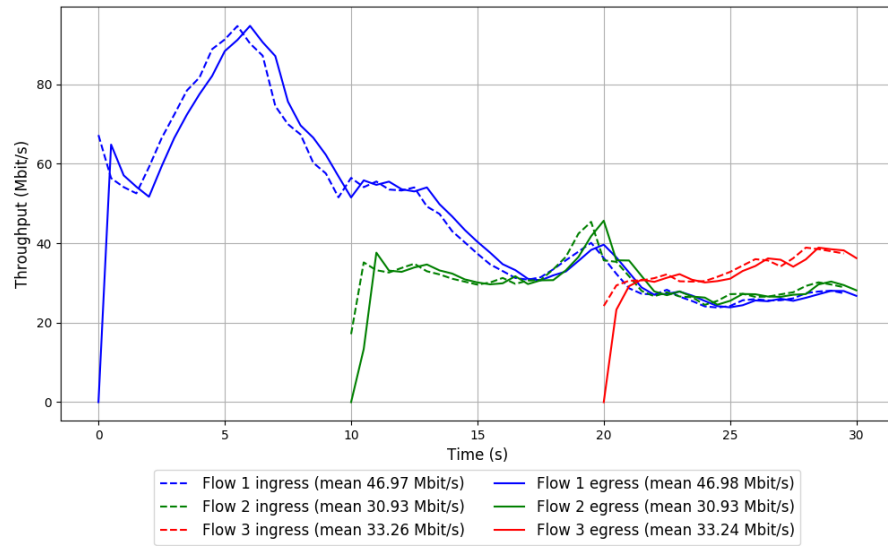


Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 10:52:57
End at: 2018-06-19 10:53:27
Local clock offset: 0.314 ms
Remote clock offset: -6.132 ms

Below is generated by plot.py at 2018-06-19 12:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.35 Mbit/s
95th percentile per-packet one-way delay: 20.218 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 46.98 Mbit/s
95th percentile per-packet one-way delay: 19.642 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 30.93 Mbit/s
95th percentile per-packet one-way delay: 22.471 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 19.927 ms
Loss rate: 0.33%

Run 6: Report of TCP Vegas — Data Link

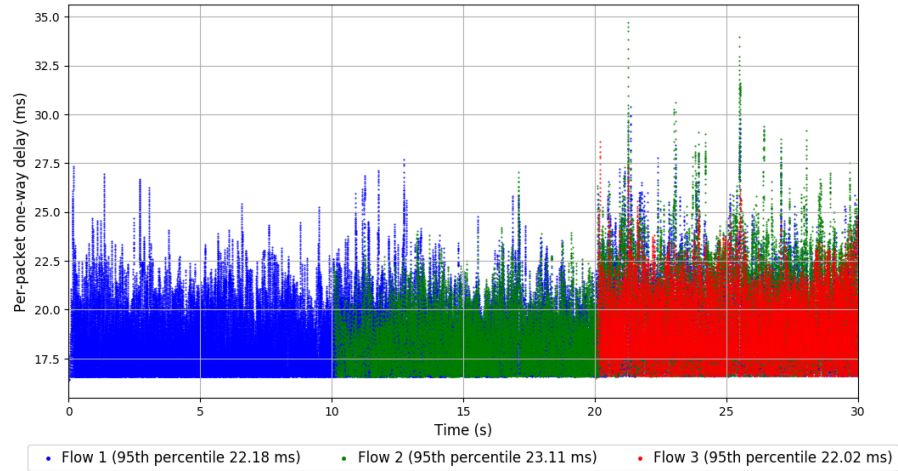
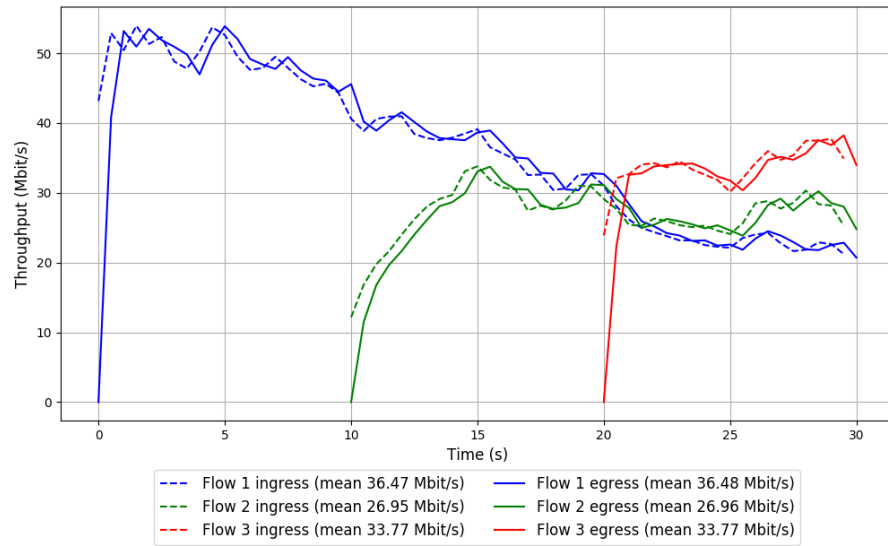


Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 11:12:08
End at: 2018-06-19 11:12:38
Local clock offset: 0.685 ms
Remote clock offset: -4.955 ms

Below is generated by plot.py at 2018-06-19 12:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.62 Mbit/s
95th percentile per-packet one-way delay: 22.449 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 36.48 Mbit/s
95th percentile per-packet one-way delay: 22.182 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 26.96 Mbit/s
95th percentile per-packet one-way delay: 23.111 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 22.017 ms
Loss rate: 0.34%

Run 7: Report of TCP Vegas — Data Link

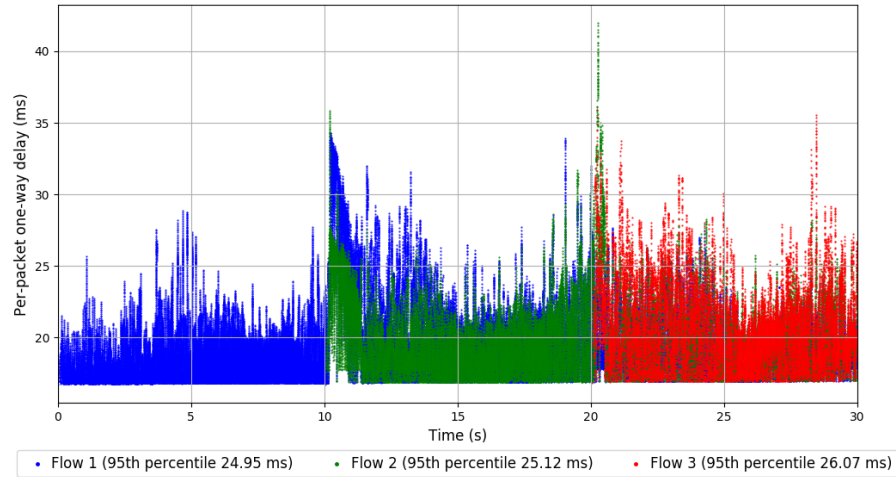
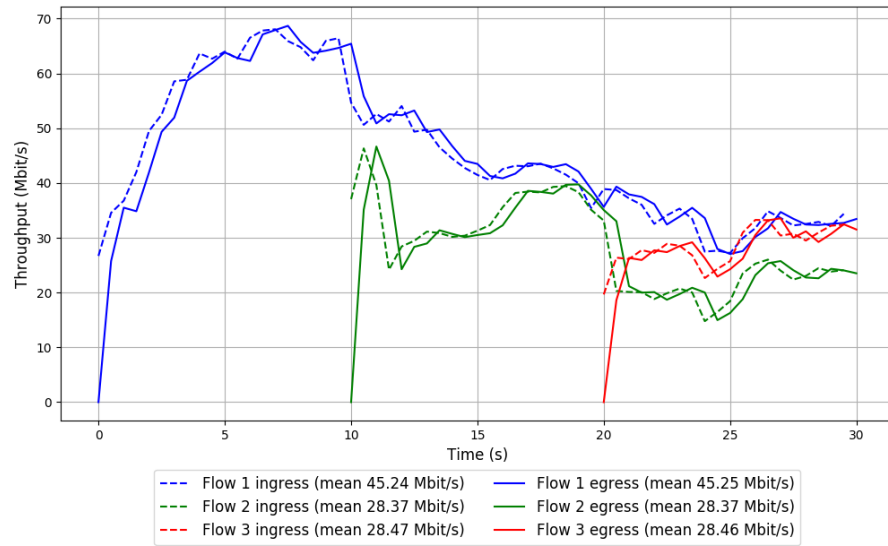


Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 11:31:08
End at: 2018-06-19 11:31:38
Local clock offset: 1.282 ms
Remote clock offset: -2.408 ms

Below is generated by plot.py at 2018-06-19 12:34:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.57 Mbit/s
95th percentile per-packet one-way delay: 25.216 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 45.25 Mbit/s
95th percentile per-packet one-way delay: 24.947 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 25.116 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 28.46 Mbit/s
95th percentile per-packet one-way delay: 26.075 ms
Loss rate: 0.37%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 11:50:02

End at: 2018-06-19 11:50:32

Local clock offset: -1.236 ms

Remote clock offset: 2.524 ms

Below is generated by plot.py at 2018-06-19 12:34:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 13.892 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 14.048 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 44.09 Mbit/s

95th percentile per-packet one-way delay: 13.490 ms

Loss rate: 0.13%

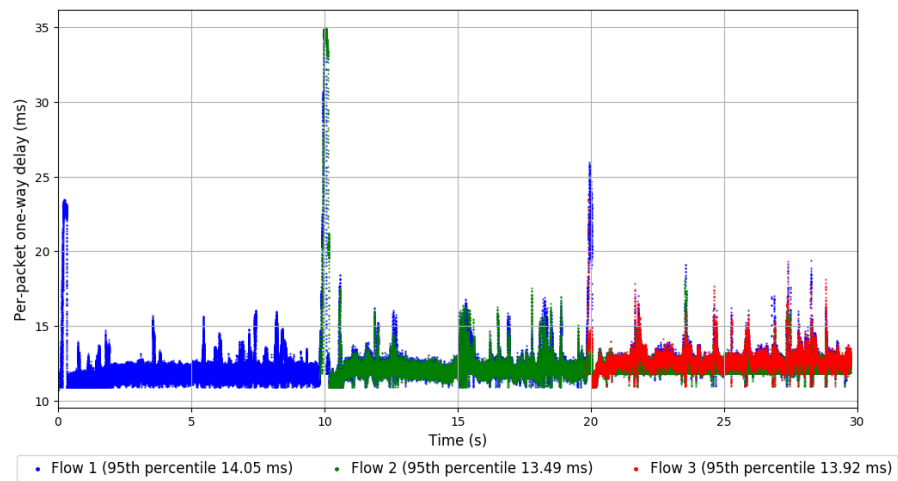
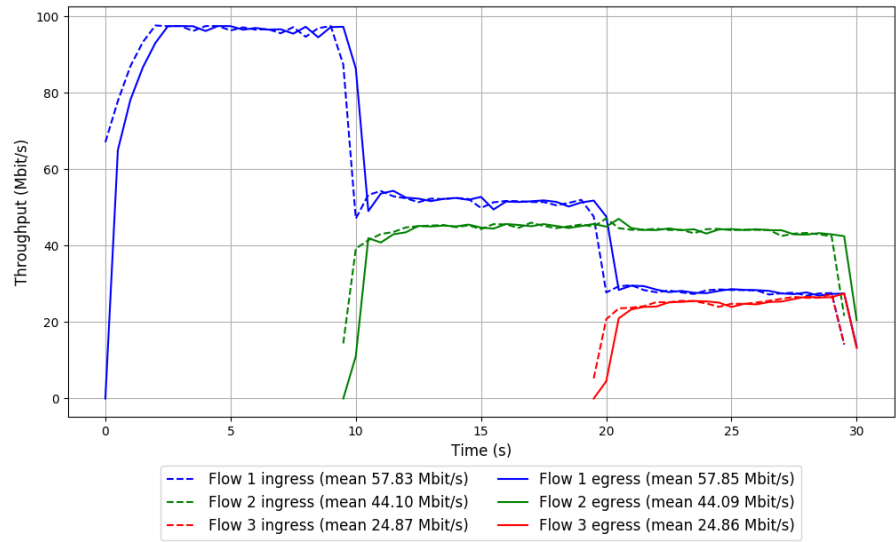
-- Flow 3:

Average throughput: 24.86 Mbit/s

95th percentile per-packet one-way delay: 13.920 ms

Loss rate: 0.29%

Run 9: Report of TCP Vegas — Data Link

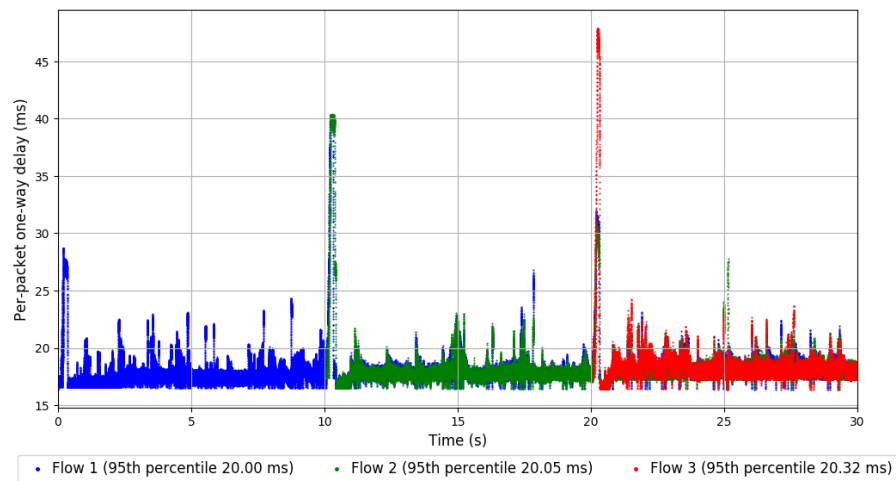
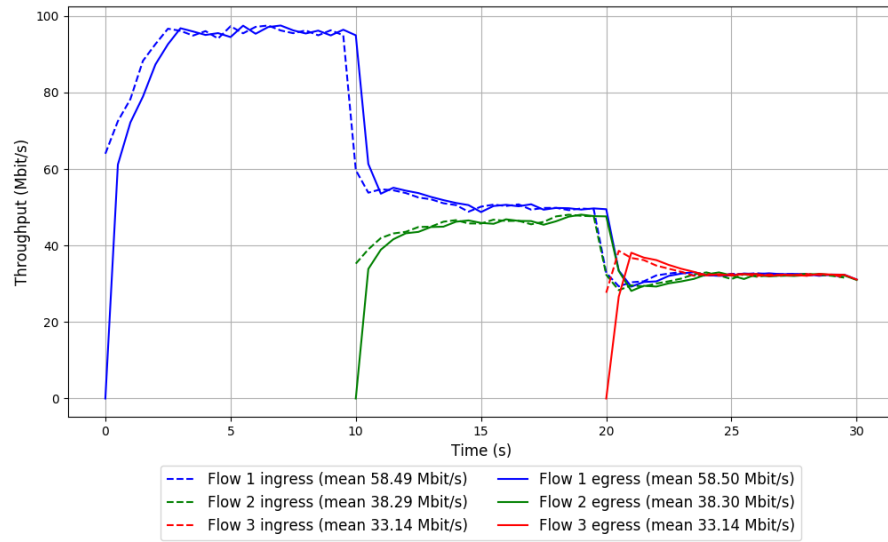


Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 12:09:24
End at: 2018-06-19 12:09:54
Local clock offset: -0.486 ms
Remote clock offset: -4.435 ms

Below is generated by plot.py at 2018-06-19 12:34:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.99 Mbit/s
95th percentile per-packet one-way delay: 20.052 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 58.50 Mbit/s
95th percentile per-packet one-way delay: 19.998 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: 20.049 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 33.14 Mbit/s
95th percentile per-packet one-way delay: 20.325 ms
Loss rate: 0.27%

Run 10: Report of TCP Vegas — Data Link

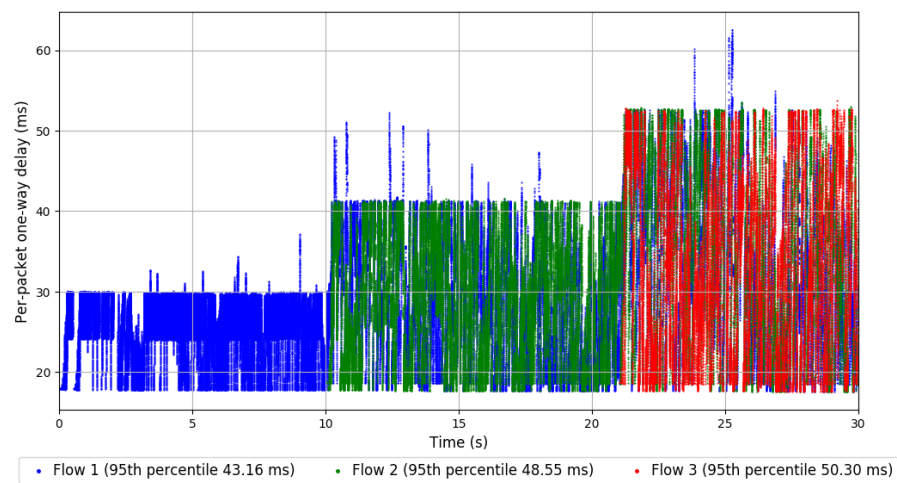
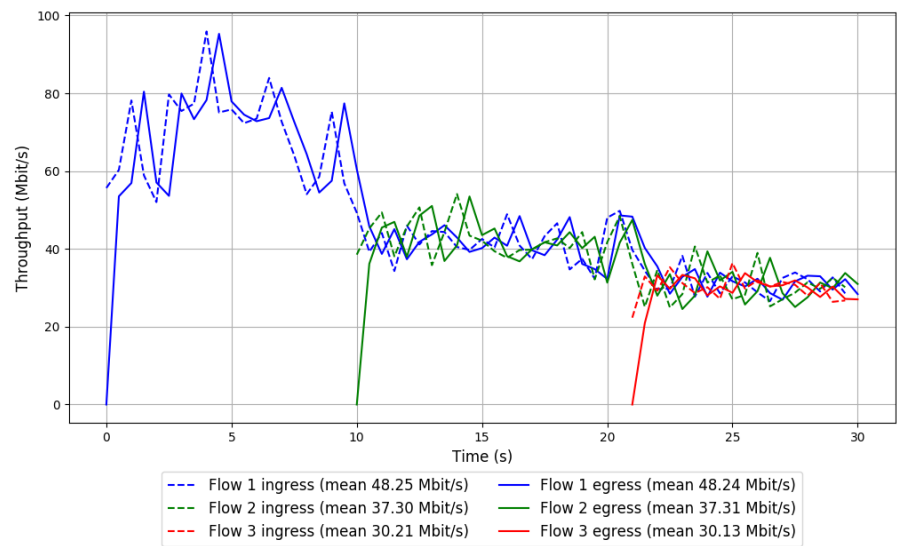


Run 1: Statistics of Verus

Start at: 2018-06-19 09:13:23
End at: 2018-06-19 09:13:53
Local clock offset: -0.659 ms
Remote clock offset: -2.279 ms

Below is generated by plot.py at 2018-06-19 12:34:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.04 Mbit/s
95th percentile per-packet one-way delay: 47.304 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 48.24 Mbit/s
95th percentile per-packet one-way delay: 43.156 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 48.550 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 50.297 ms
Loss rate: 0.53%

Run 1: Report of Verus — Data Link

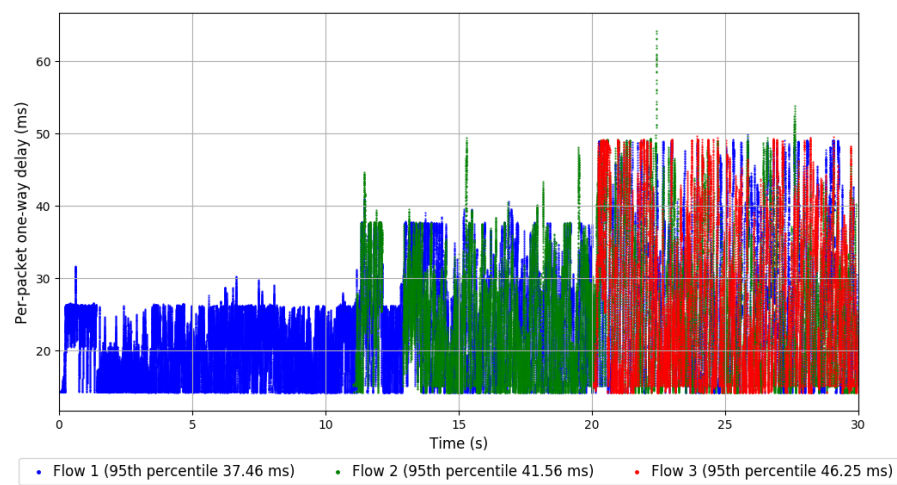
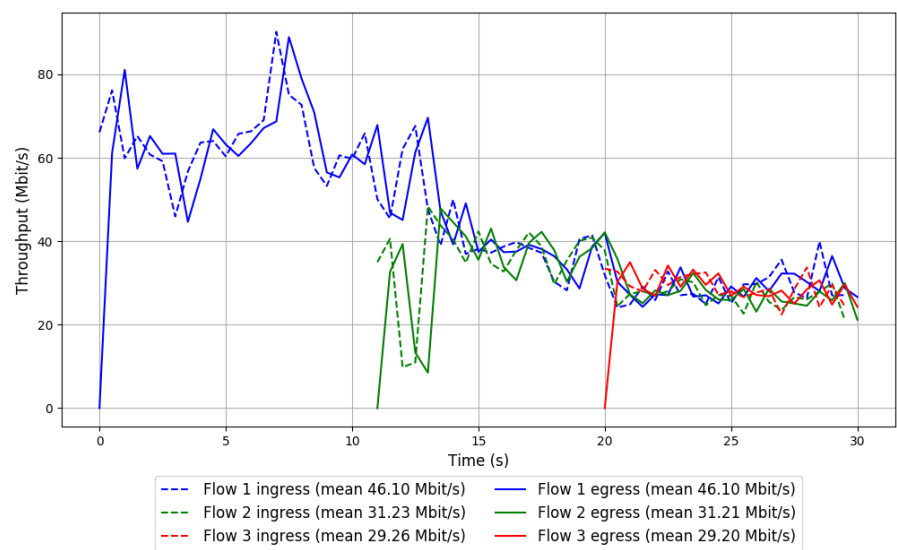


Run 2: Statistics of Verus

Start at: 2018-06-19 09:32:11
End at: 2018-06-19 09:32:41
Local clock offset: -0.973 ms
Remote clock offset: -4.841 ms

Below is generated by plot.py at 2018-06-19 12:34:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.52 Mbit/s
95th percentile per-packet one-way delay: 41.110 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 46.10 Mbit/s
95th percentile per-packet one-way delay: 37.460 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 41.557 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 29.20 Mbit/s
95th percentile per-packet one-way delay: 46.246 ms
Loss rate: 0.43%

Run 2: Report of Verus — Data Link

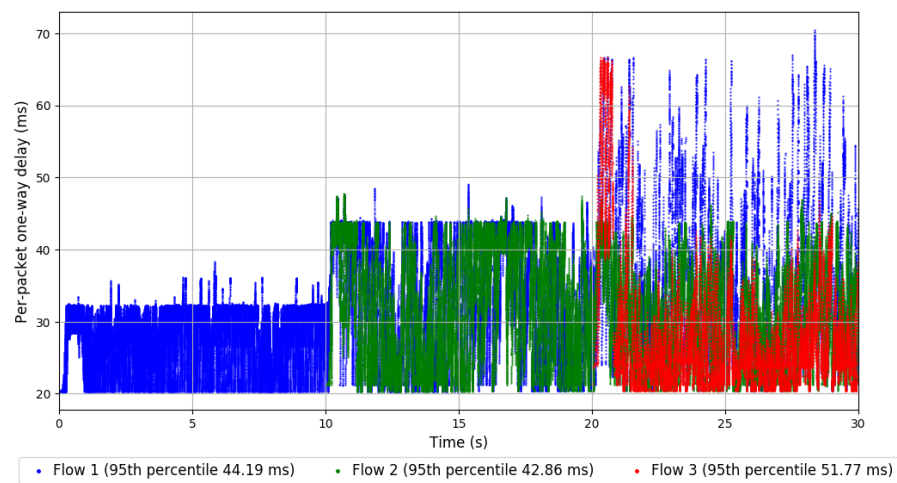
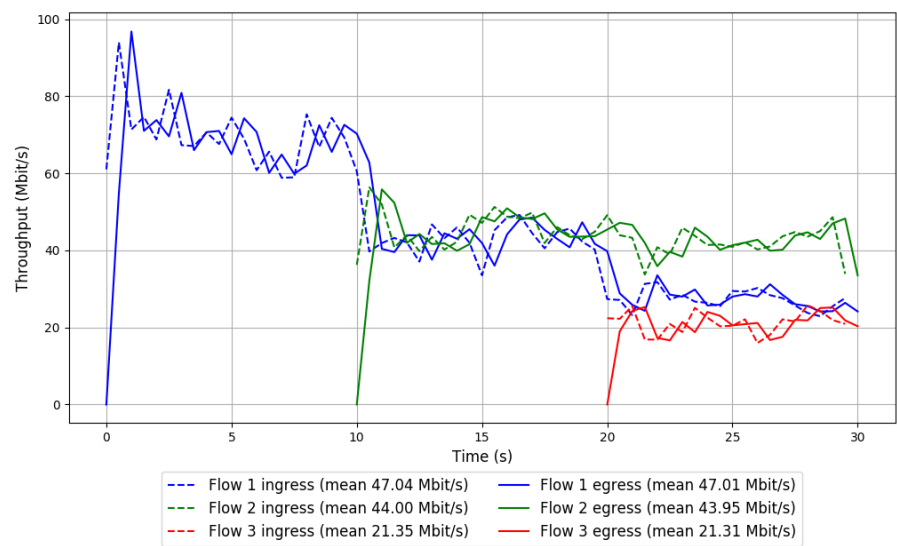


Run 3: Statistics of Verus

Start at: 2018-06-19 09:51:14
End at: 2018-06-19 09:51:44
Local clock offset: 2.574 ms
Remote clock offset: -4.894 ms

Below is generated by plot.py at 2018-06-19 12:35:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.33 Mbit/s
95th percentile per-packet one-way delay: 43.465 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 47.01 Mbit/s
95th percentile per-packet one-way delay: 44.190 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 43.95 Mbit/s
95th percentile per-packet one-way delay: 42.859 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 51.771 ms
Loss rate: 0.45%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-19 10:10:47

End at: 2018-06-19 10:11:17

Local clock offset: 0.454 ms

Remote clock offset: -3.55 ms

Below is generated by plot.py at 2018-06-19 12:35:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.26 Mbit/s

95th percentile per-packet one-way delay: 44.525 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 62.91 Mbit/s

95th percentile per-packet one-way delay: 42.341 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 12.83 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.17%

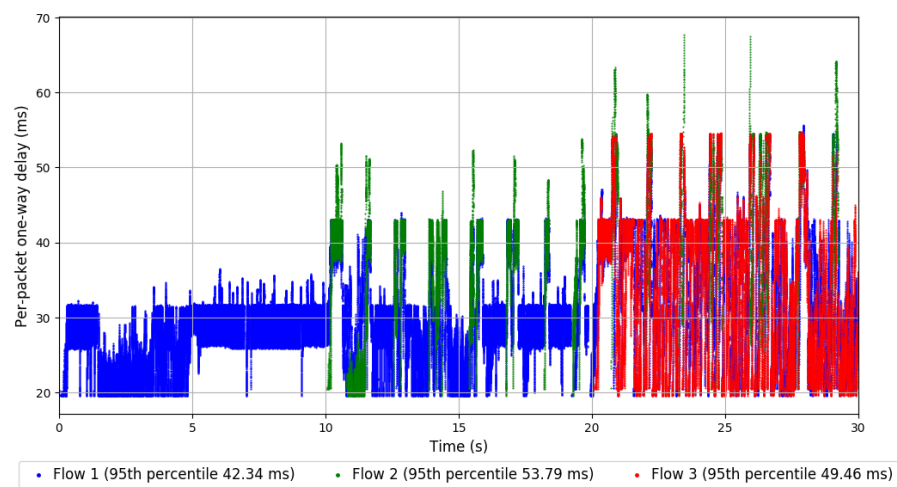
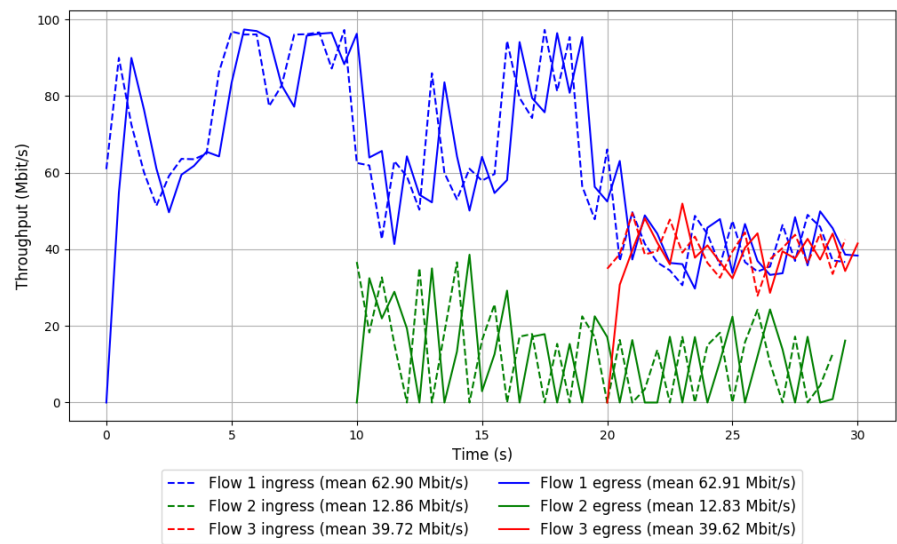
-- Flow 3:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 49.456 ms

Loss rate: 0.51%

Run 4: Report of Verus — Data Link

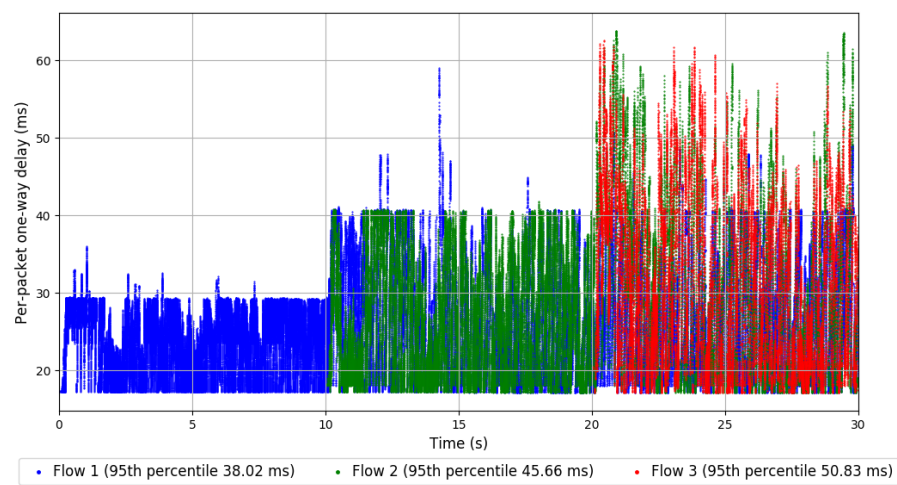
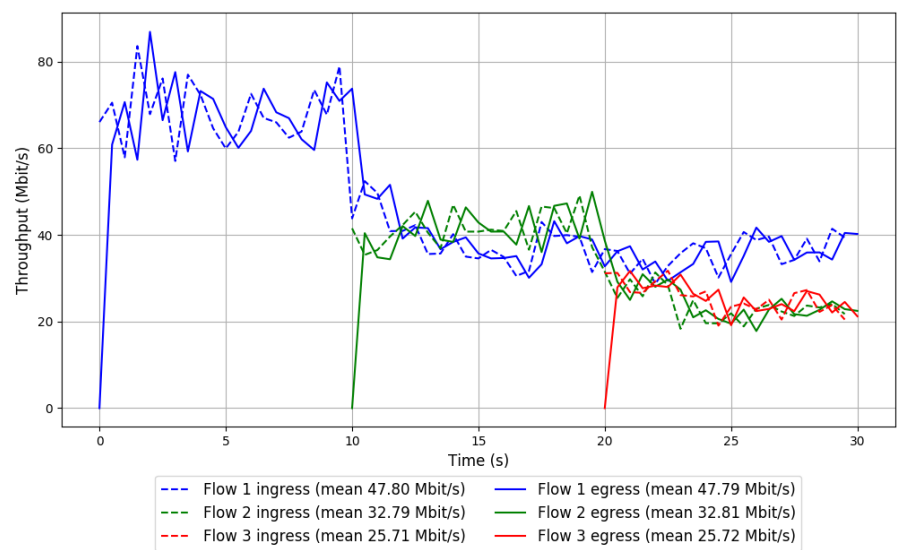


Run 5: Statistics of Verus

Start at: 2018-06-19 10:30:02
End at: 2018-06-19 10:30:32
Local clock offset: -1.35 ms
Remote clock offset: -7.168 ms

Below is generated by plot.py at 2018-06-19 12:35:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.15 Mbit/s
95th percentile per-packet one-way delay: 41.277 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 38.017 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 32.81 Mbit/s
95th percentile per-packet one-way delay: 45.662 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 50.834 ms
Loss rate: 0.10%

Run 5: Report of Verus — Data Link

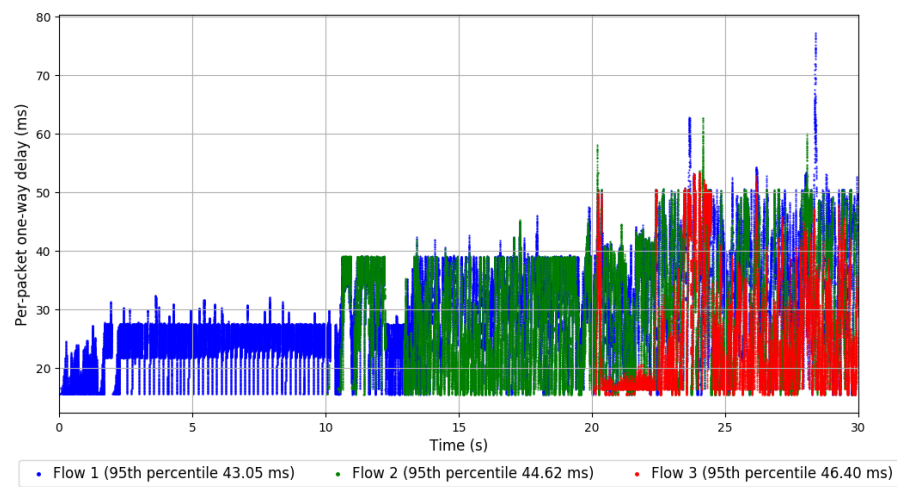
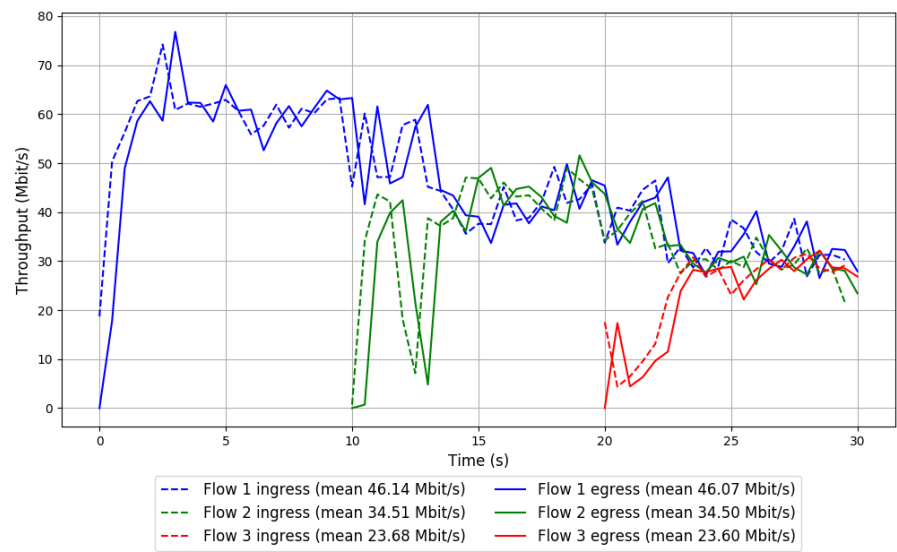


Run 6: Statistics of Verus

Start at: 2018-06-19 10:49:19
End at: 2018-06-19 10:49:49
Local clock offset: -0.235 ms
Remote clock offset: -6.89 ms

Below is generated by plot.py at 2018-06-19 12:35:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.85 Mbit/s
95th percentile per-packet one-way delay: 44.015 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 46.07 Mbit/s
95th percentile per-packet one-way delay: 43.048 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 44.625 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 23.60 Mbit/s
95th percentile per-packet one-way delay: 46.398 ms
Loss rate: 0.64%

Run 6: Report of Verus — Data Link

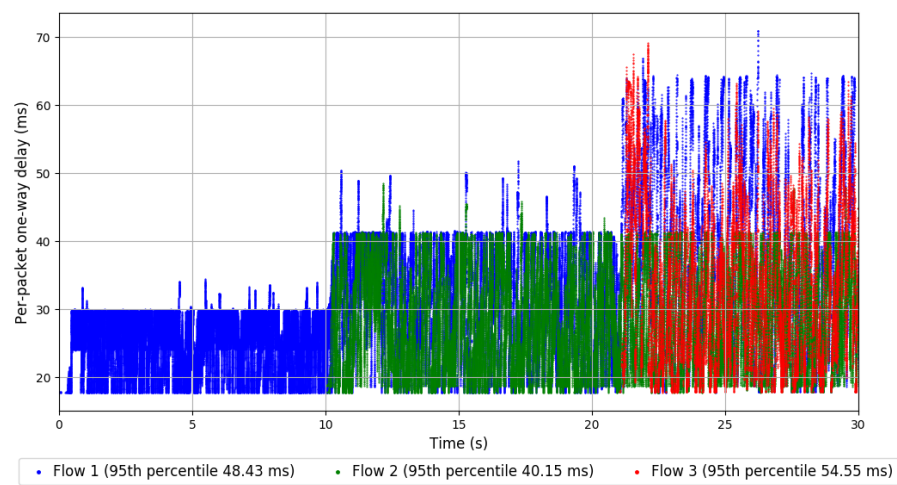
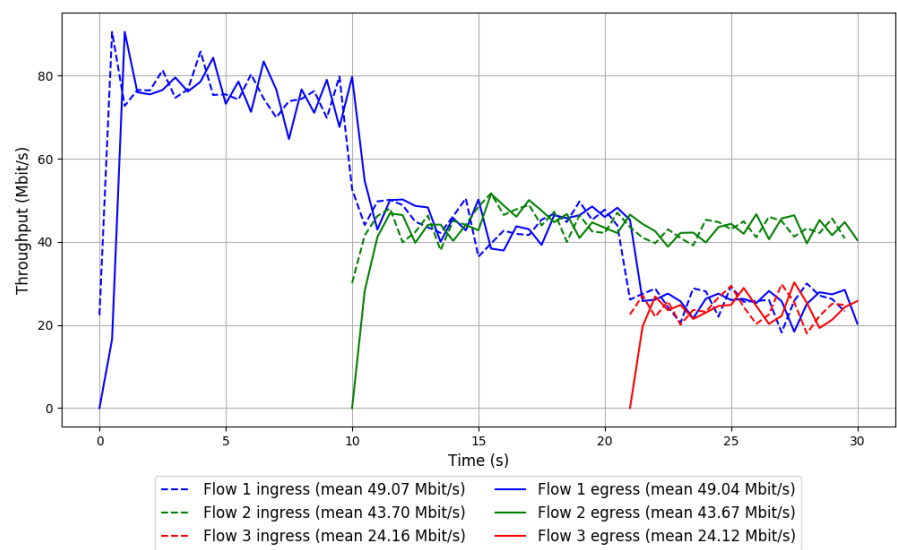


Run 7: Statistics of Verus

Start at: 2018-06-19 11:08:18
End at: 2018-06-19 11:08:48
Local clock offset: 2.52 ms
Remote clock offset: -4.771 ms

Below is generated by plot.py at 2018-06-19 12:35:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.30 Mbit/s
95th percentile per-packet one-way delay: 46.078 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 49.04 Mbit/s
95th percentile per-packet one-way delay: 48.434 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 43.67 Mbit/s
95th percentile per-packet one-way delay: 40.148 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 24.12 Mbit/s
95th percentile per-packet one-way delay: 54.547 ms
Loss rate: 0.42%

Run 7: Report of Verus — Data Link

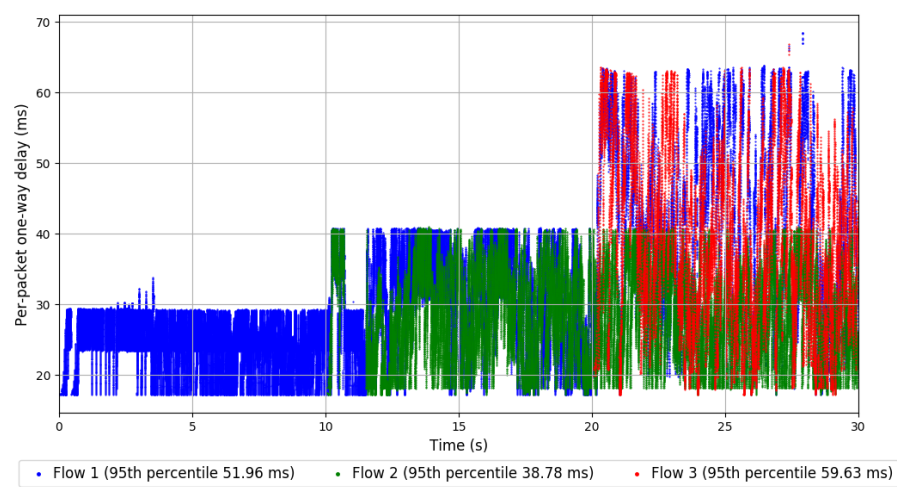
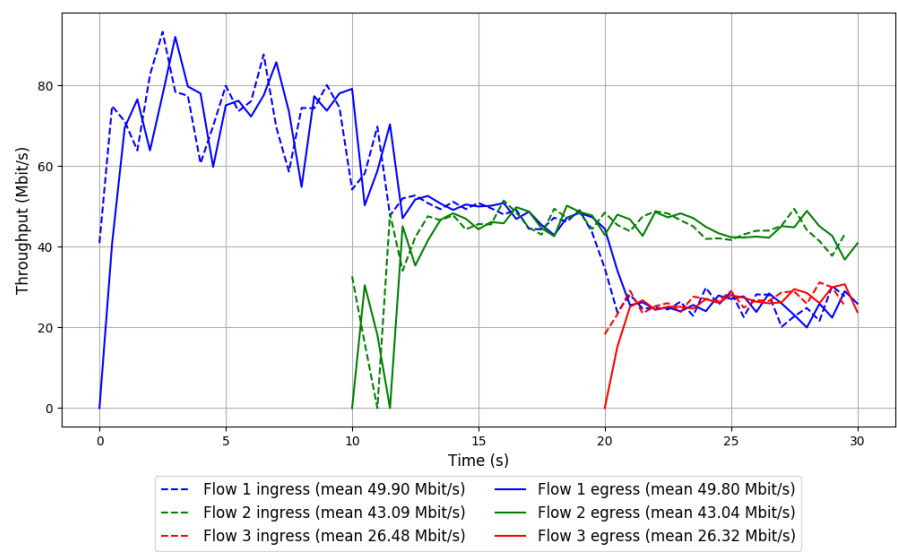


Run 8: Statistics of Verus

Start at: 2018-06-19 11:27:25
End at: 2018-06-19 11:27:55
Local clock offset: 2.023 ms
Remote clock offset: -3.492 ms

Below is generated by plot.py at 2018-06-19 12:35:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.17 Mbit/s
95th percentile per-packet one-way delay: 50.789 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 49.80 Mbit/s
95th percentile per-packet one-way delay: 51.961 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 43.04 Mbit/s
95th percentile per-packet one-way delay: 38.780 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 26.32 Mbit/s
95th percentile per-packet one-way delay: 59.632 ms
Loss rate: 1.11%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-19 11:46:26

End at: 2018-06-19 11:46:56

Local clock offset: 2.877 ms

Remote clock offset: 1.589 ms

Below is generated by plot.py at 2018-06-19 12:35:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 38.691 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 46.08 Mbit/s

95th percentile per-packet one-way delay: 36.647 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 38.992 ms

Loss rate: 0.18%

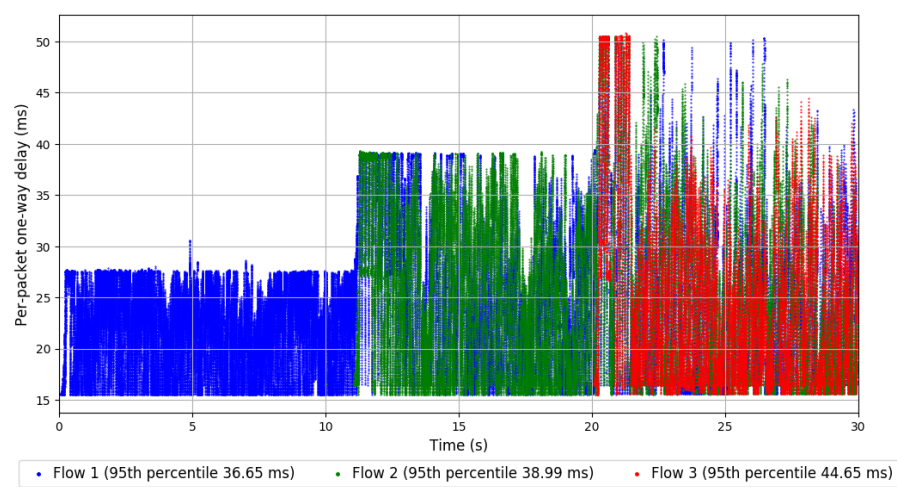
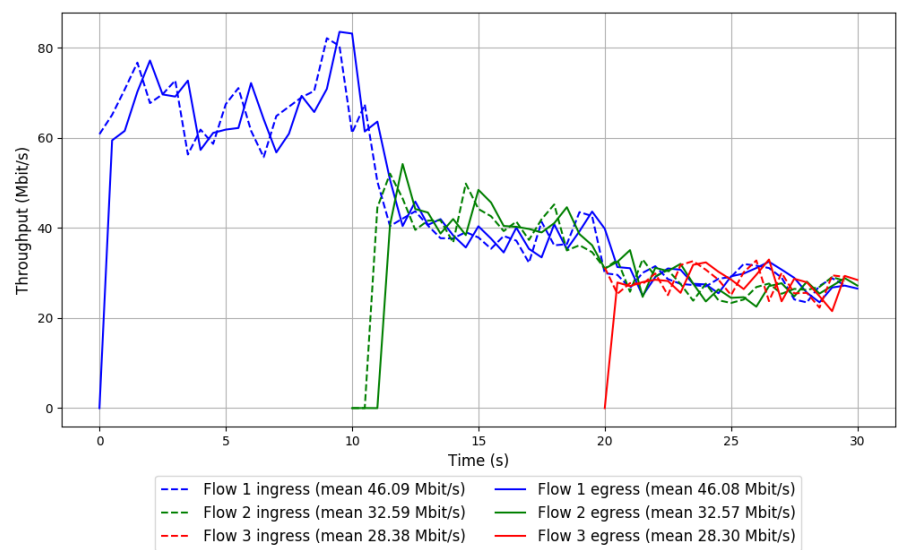
-- Flow 3:

Average throughput: 28.30 Mbit/s

95th percentile per-packet one-way delay: 44.651 ms

Loss rate: 0.44%

Run 9: Report of Verus — Data Link

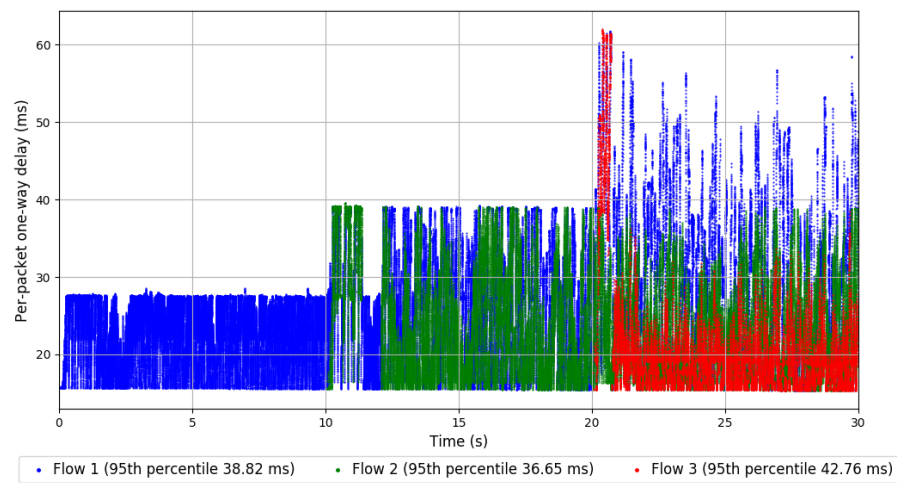
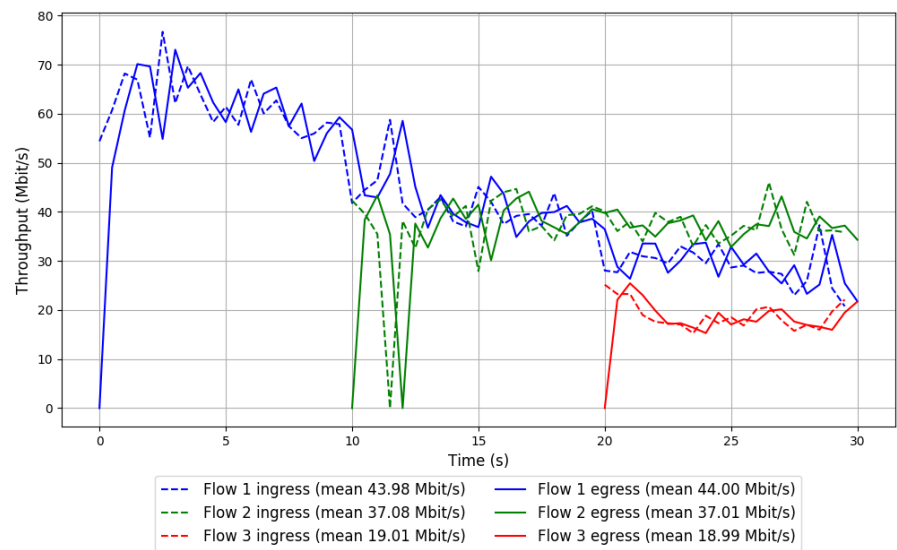


Run 10: Statistics of Verus

Start at: 2018-06-19 12:05:33
End at: 2018-06-19 12:06:03
Local clock offset: 0.434 ms
Remote clock offset: -0.434 ms

Below is generated by plot.py at 2018-06-19 12:35:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 38.657 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 44.00 Mbit/s
95th percentile per-packet one-way delay: 38.817 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 36.652 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 18.99 Mbit/s
95th percentile per-packet one-way delay: 42.761 ms
Loss rate: 0.41%

Run 10: Report of Verus — Data Link

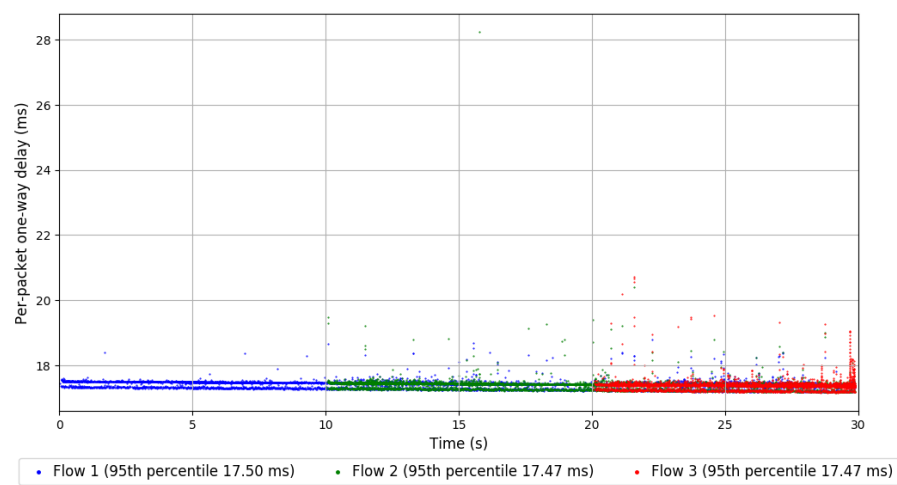
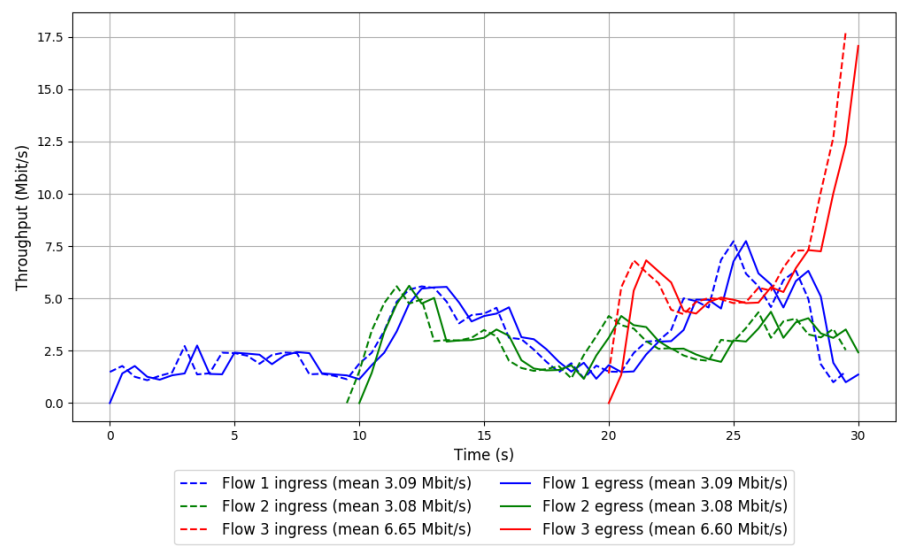


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 09:18:10
End at: 2018-06-19 09:18:40
Local clock offset: 2.047 ms
Remote clock offset: -2.686 ms

Below is generated by plot.py at 2018-06-19 12:35:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 17.491 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 17.497 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 17.472 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 17.466 ms
Loss rate: 1.04%

Run 1: Report of PCC-Vivace — Data Link

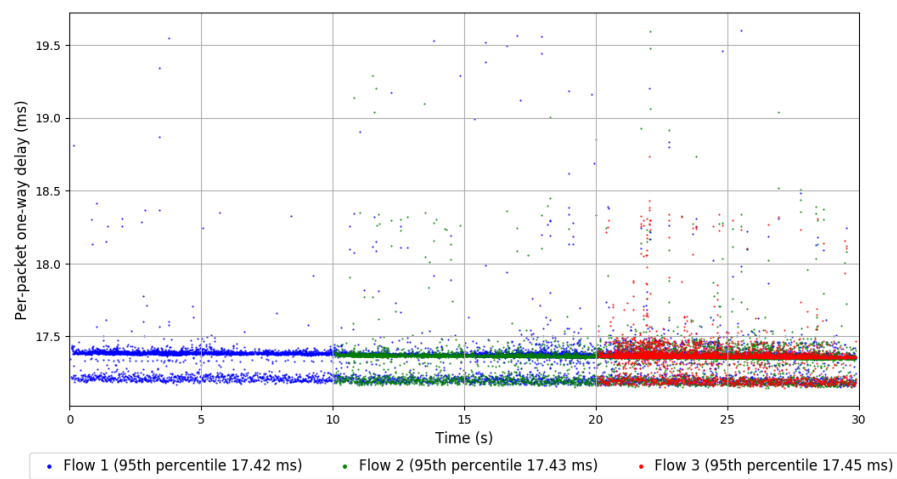
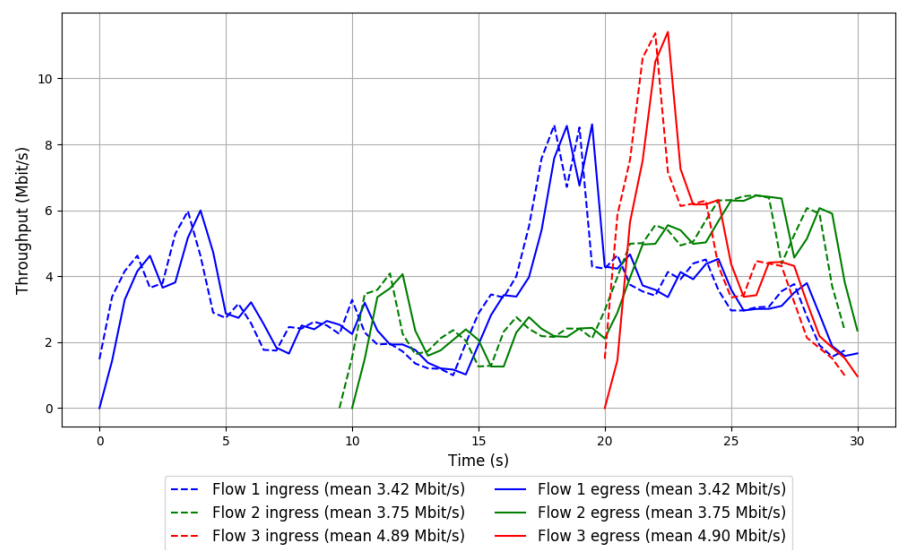


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 09:37:02
End at: 2018-06-19 09:37:32
Local clock offset: 0.649 ms
Remote clock offset: -6.749 ms

Below is generated by plot.py at 2018-06-19 12:35:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 17.429 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 17.417 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 17.430 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 17.452 ms
Loss rate: 0.07%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 09:56:09

End at: 2018-06-19 09:56:39

Local clock offset: 1.855 ms

Remote clock offset: -3.37 ms

Below is generated by plot.py at 2018-06-19 12:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.70 Mbit/s

95th percentile per-packet one-way delay: 22.786 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 42.29 Mbit/s

95th percentile per-packet one-way delay: 23.793 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 6.31 Mbit/s

95th percentile per-packet one-way delay: 19.007 ms

Loss rate: 0.29%

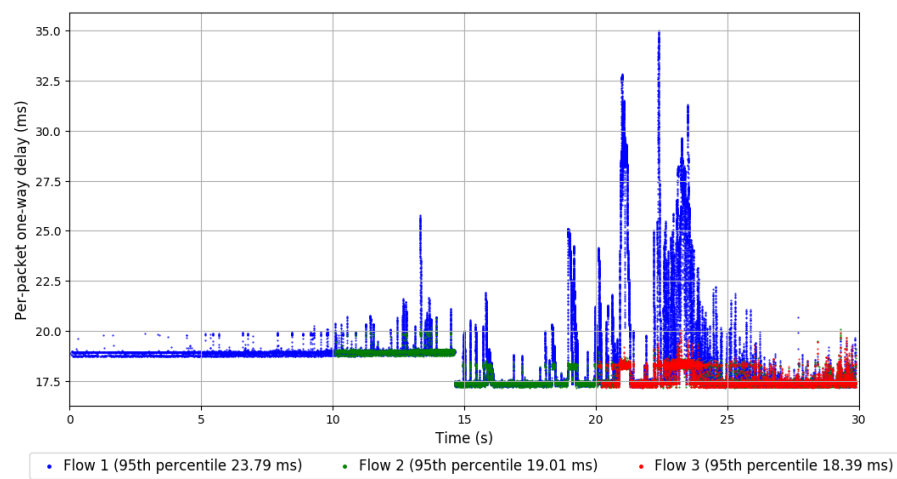
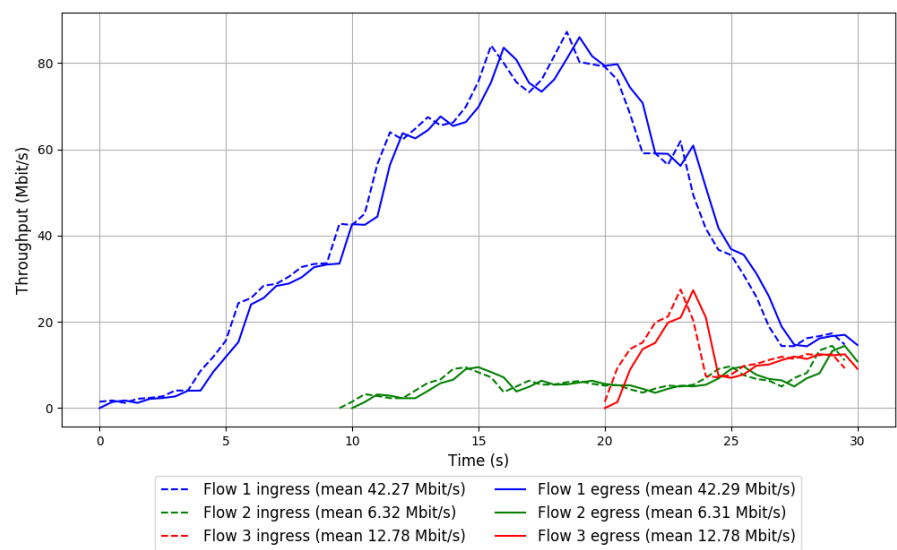
-- Flow 3:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 18.386 ms

Loss rate: 0.23%

Run 3: Report of PCC-Vivace — Data Link

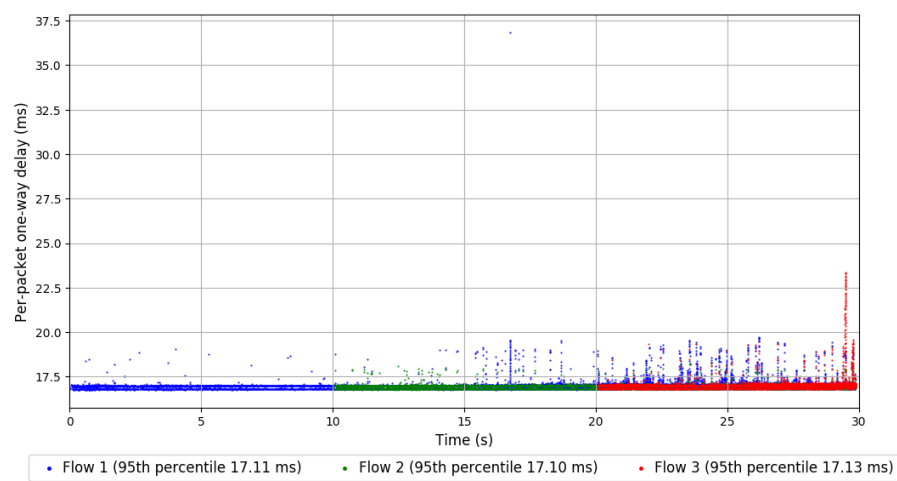
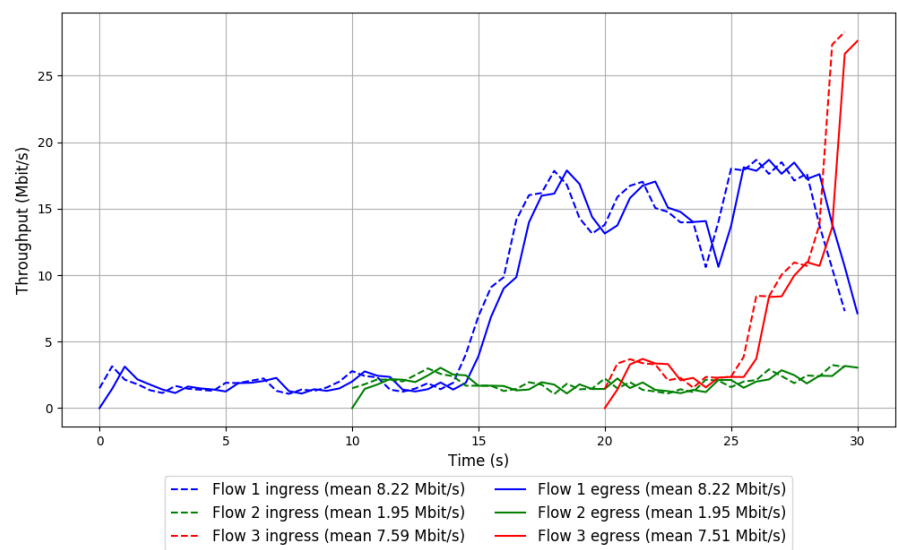


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 10:15:45
End at: 2018-06-19 10:16:15
Local clock offset: -2.95 ms
Remote clock offset: -3.918 ms

Below is generated by plot.py at 2018-06-19 12:36:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 17.111 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 17.110 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 17.097 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 17.129 ms
Loss rate: 1.30%

Run 4: Report of PCC-Vivace — Data Link

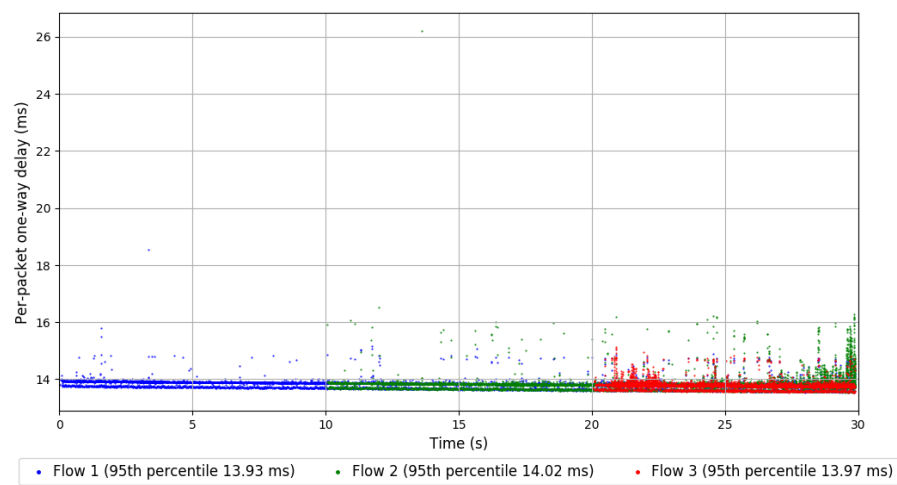
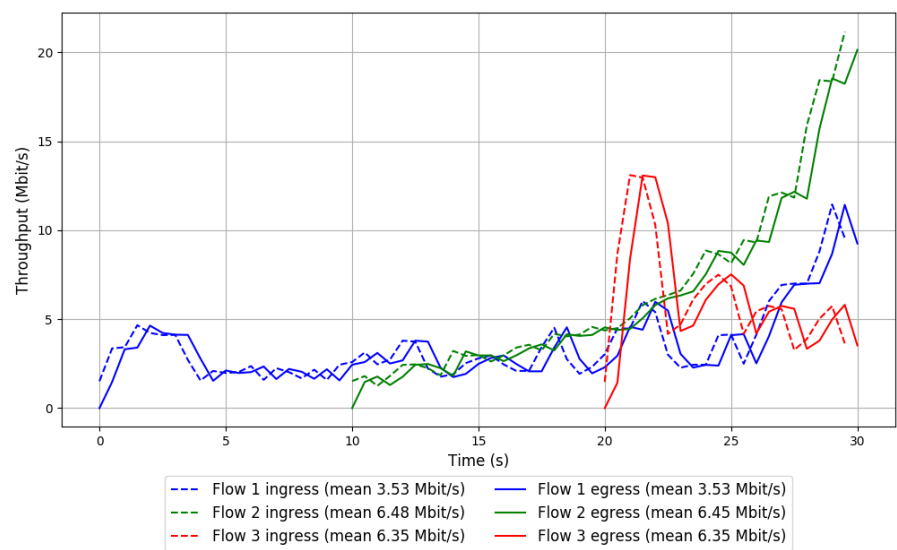


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 10:34:51
End at: 2018-06-19 10:35:21
Local clock offset: -3.037 ms
Remote clock offset: -6.658 ms

Below is generated by plot.py at 2018-06-19 12:36:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.91 Mbit/s
95th percentile per-packet one-way delay: 13.946 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 13.933 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 14.019 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 13.969 ms
Loss rate: 0.19%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 10:54:07

End at: 2018-06-19 10:54:37

Local clock offset: 0.909 ms

Remote clock offset: -8.35 ms

Below is generated by plot.py at 2018-06-19 12:36:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.16 Mbit/s

95th percentile per-packet one-way delay: 22.421 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 34.02 Mbit/s

95th percentile per-packet one-way delay: 27.218 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 5.63 Mbit/s

95th percentile per-packet one-way delay: 18.471 ms

Loss rate: 0.12%

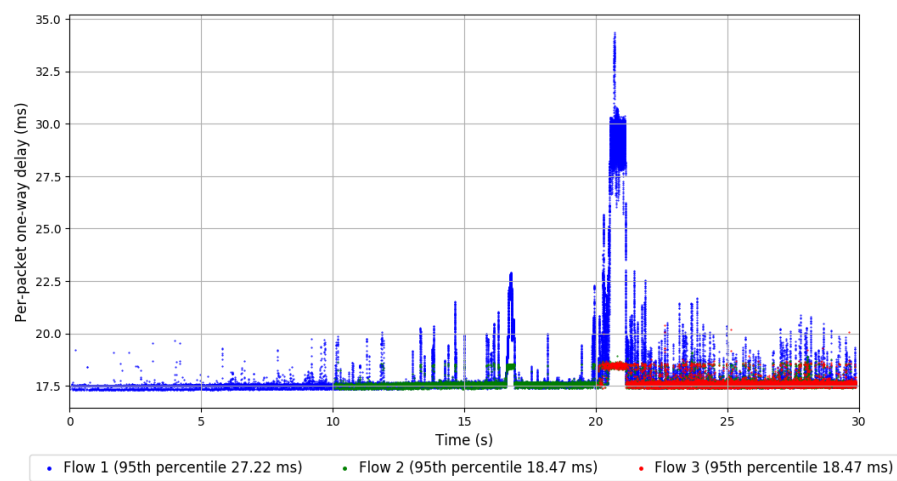
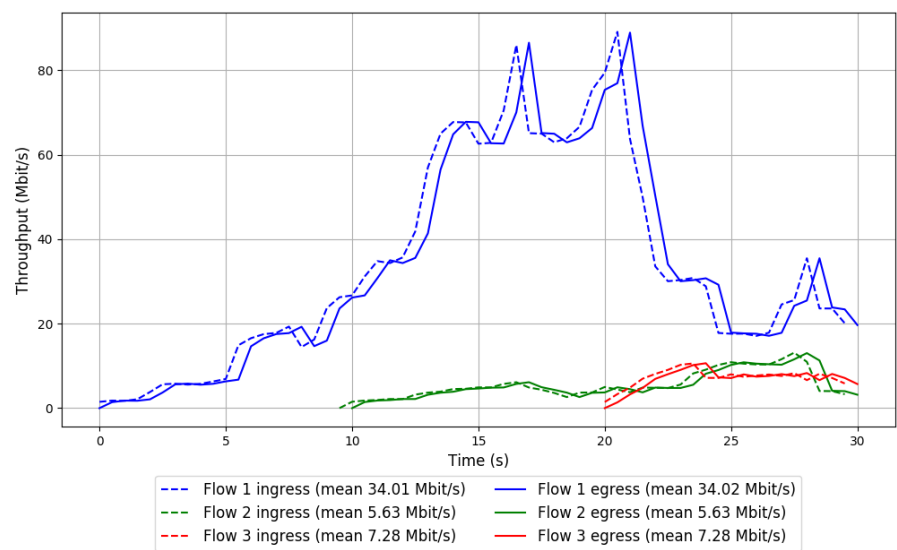
-- Flow 3:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 18.469 ms

Loss rate: 0.30%

Run 6: Report of PCC-Vivace — Data Link

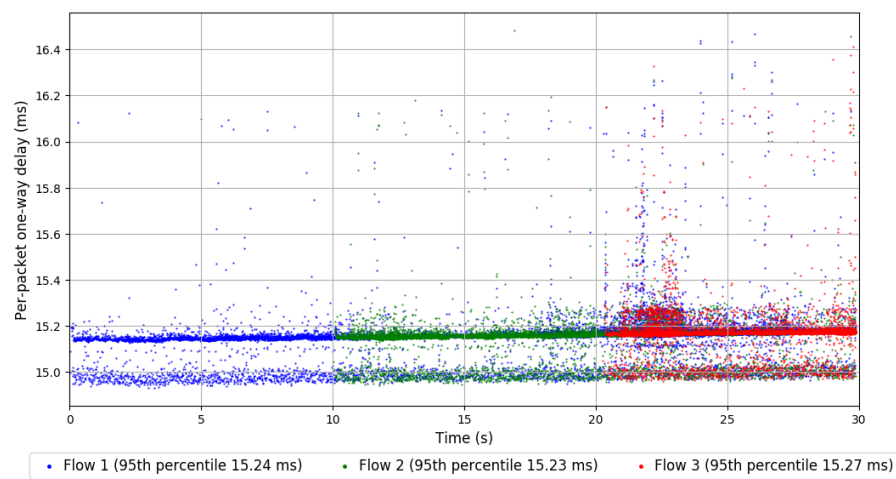
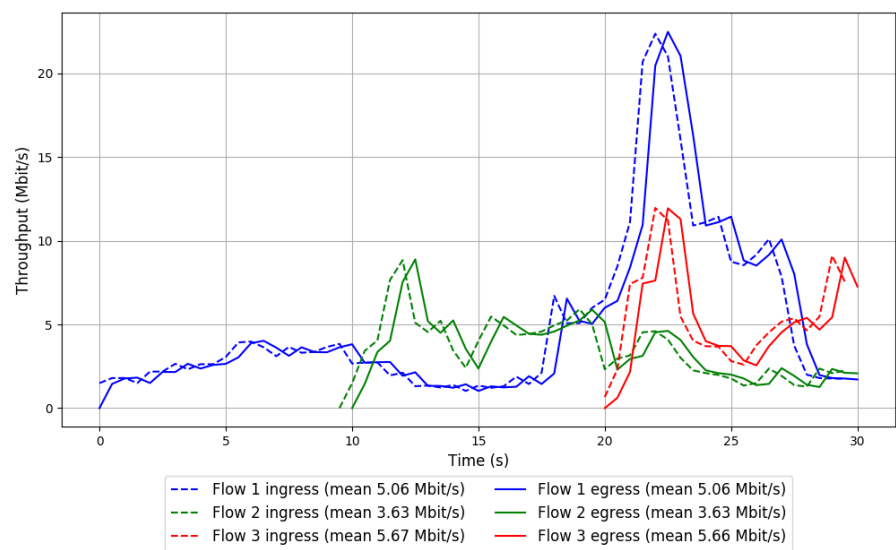


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 11:13:19
End at: 2018-06-19 11:13:49
Local clock offset: 0.752 ms
Remote clock offset: -3.379 ms

Below is generated by plot.py at 2018-06-19 12:36:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 15.249 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 15.239 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 15.234 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 15.272 ms
Loss rate: 0.53%

Run 7: Report of PCC-Vivace — Data Link

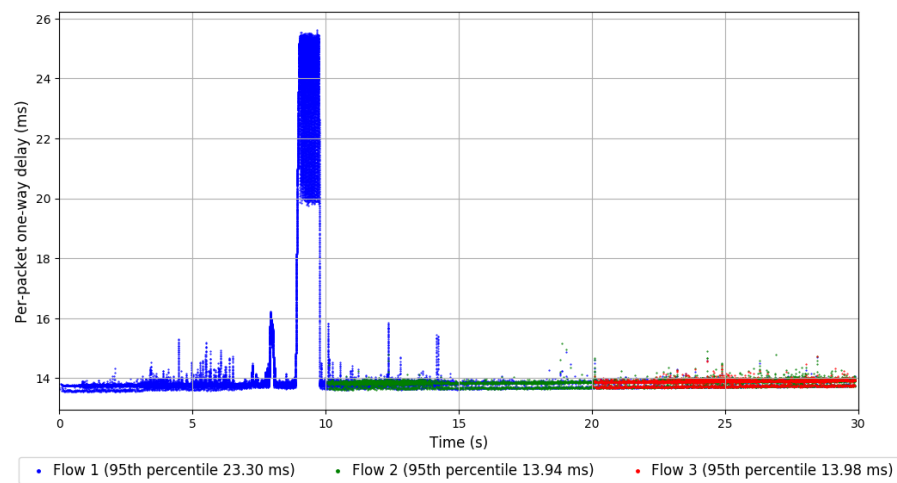
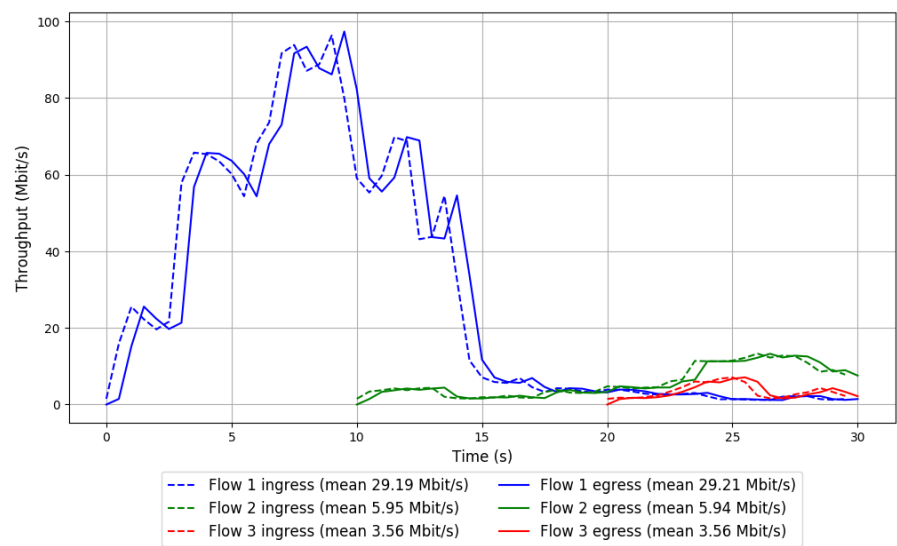


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 11:32:17
End at: 2018-06-19 11:32:47
Local clock offset: -1.087 ms
Remote clock offset: -2.871 ms

Below is generated by plot.py at 2018-06-19 12:36:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.33 Mbit/s
95th percentile per-packet one-way delay: 22.554 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 29.21 Mbit/s
95th percentile per-packet one-way delay: 23.299 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 13.942 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 13.977 ms
Loss rate: 0.23%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 11:51:12

End at: 2018-06-19 11:51:42

Local clock offset: 1.935 ms

Remote clock offset: 2.256 ms

Below is generated by plot.py at 2018-06-19 12:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 17.471 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 52.92 Mbit/s

95th percentile per-packet one-way delay: 17.681 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 14.19 Mbit/s

95th percentile per-packet one-way delay: 15.441 ms

Loss rate: 0.22%

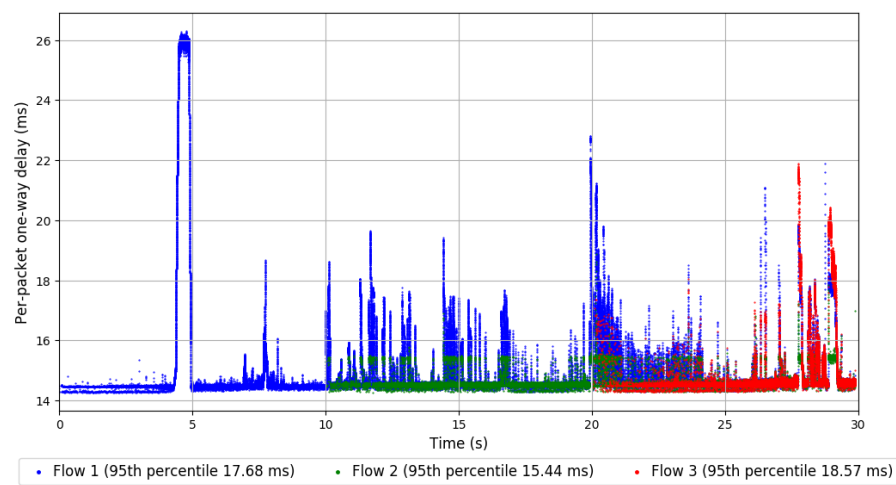
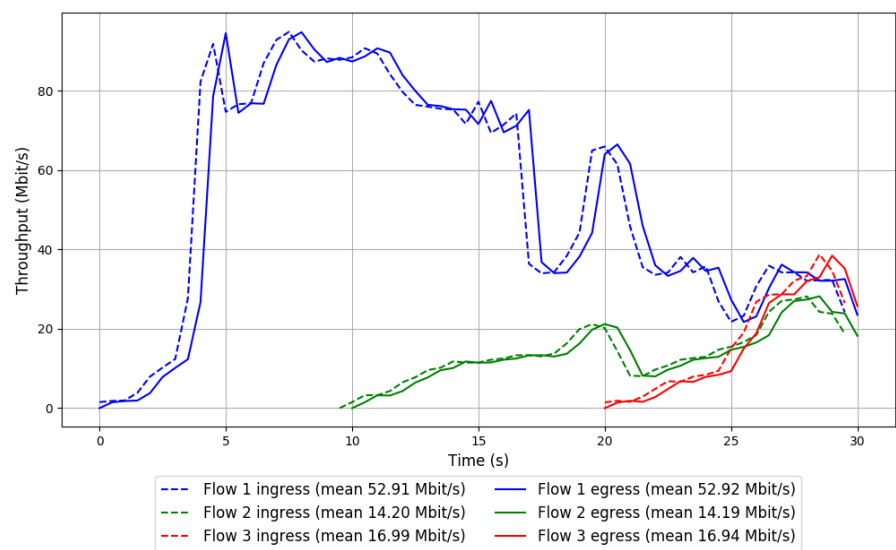
-- Flow 3:

Average throughput: 16.94 Mbit/s

95th percentile per-packet one-way delay: 18.575 ms

Loss rate: 0.51%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 12:10:36

End at: 2018-06-19 12:11:06

Local clock offset: 1.16 ms

Remote clock offset: -5.88 ms

Below is generated by plot.py at 2018-06-19 12:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 21.115 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 20.26 Mbit/s

95th percentile per-packet one-way delay: 21.105 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 37.88 Mbit/s

95th percentile per-packet one-way delay: 20.985 ms

Loss rate: 0.35%

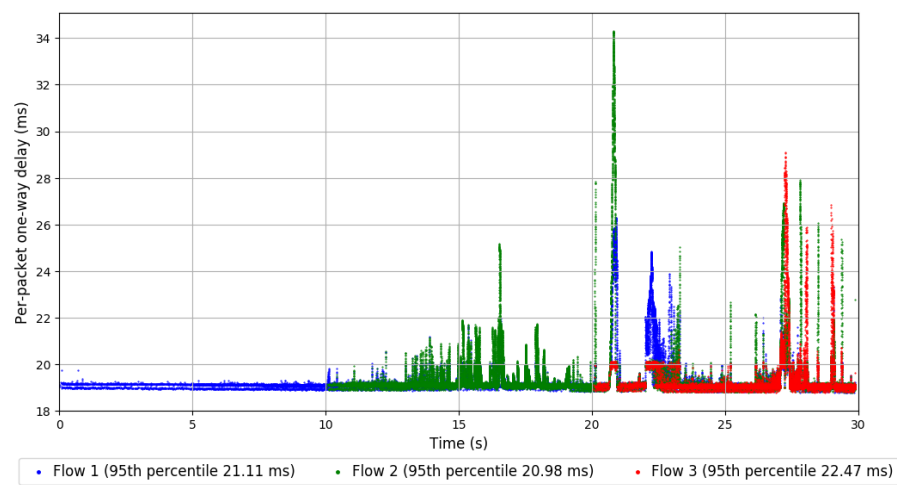
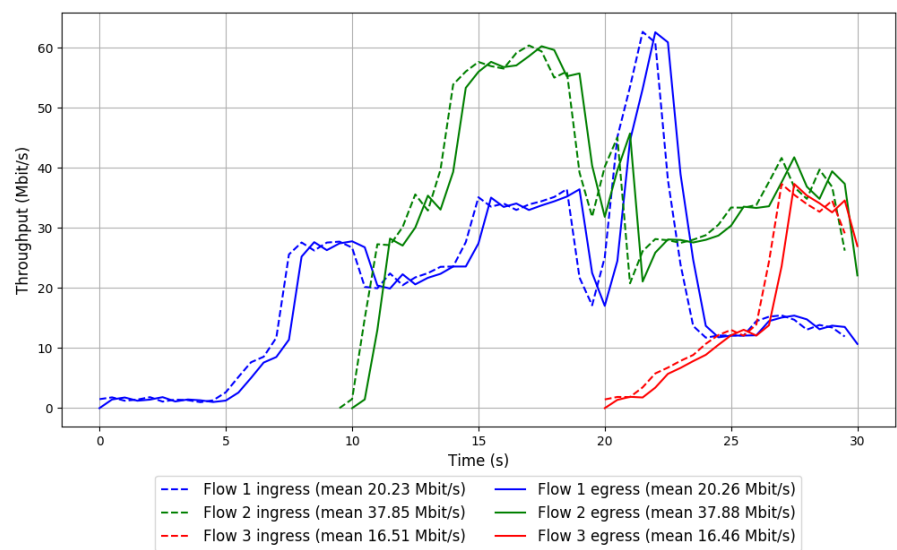
-- Flow 3:

Average throughput: 16.46 Mbit/s

95th percentile per-packet one-way delay: 22.471 ms

Loss rate: 1.07%

Run 10: Report of PCC-Vivace — Data Link

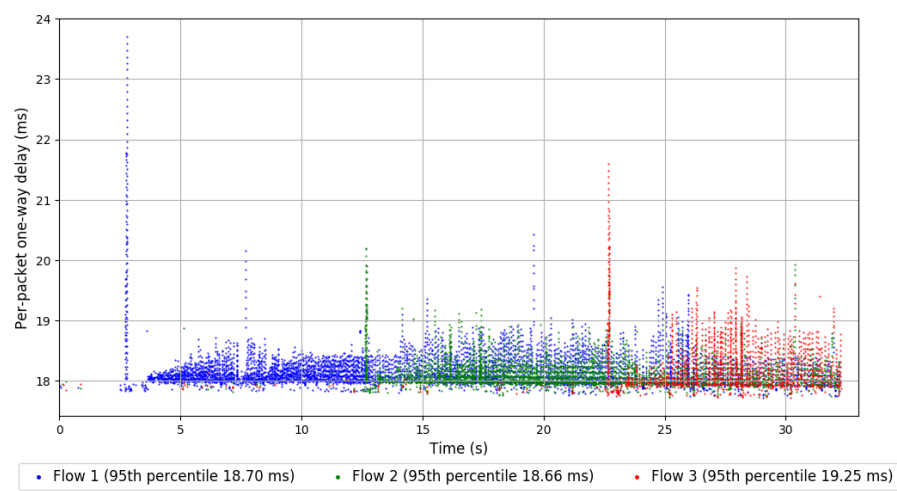
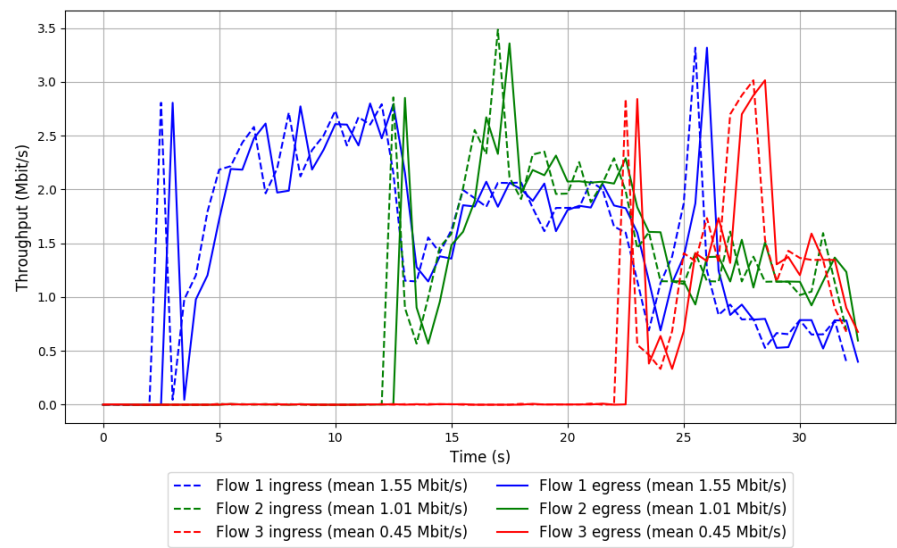


Run 1: Statistics of WebRTC media

Start at: 2018-06-19 09:20:30
End at: 2018-06-19 09:21:00
Local clock offset: 1.874 ms
Remote clock offset: -4.013 ms

Below is generated by plot.py at 2018-06-19 12:36:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 18.802 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 18.697 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 18.664 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 19.255 ms
Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link

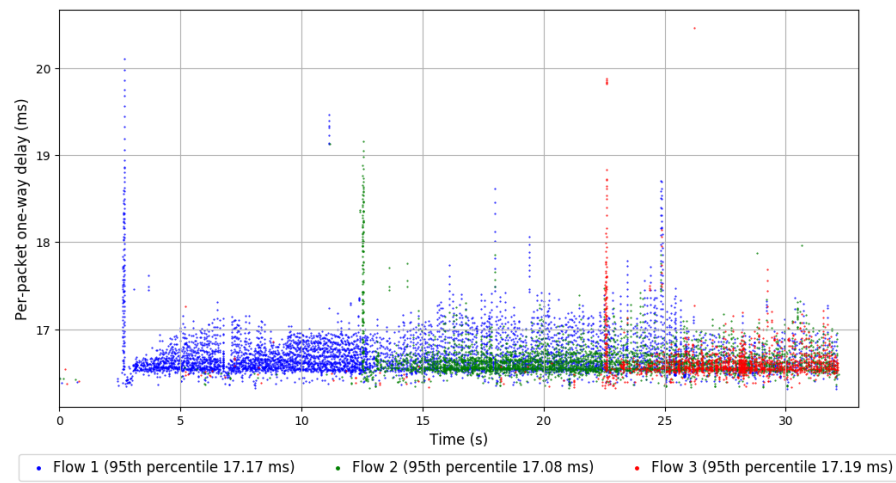
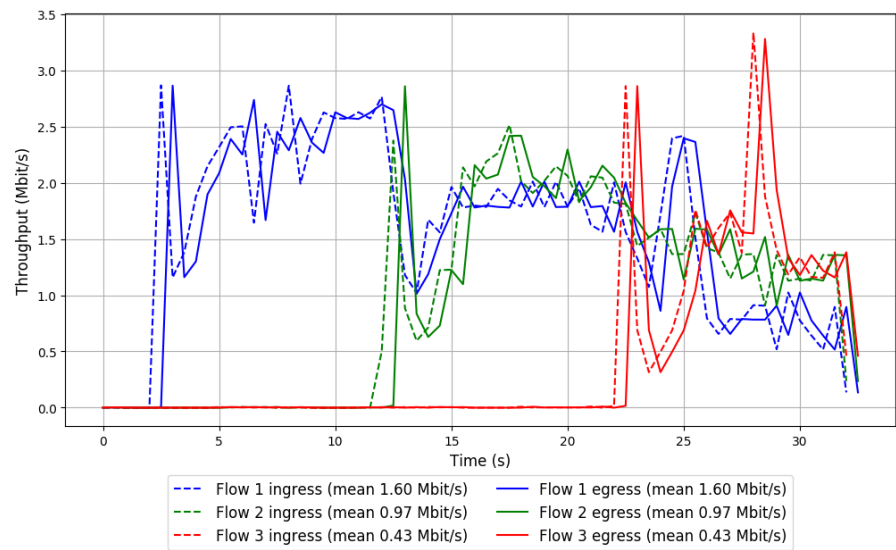


Run 2: Statistics of WebRTC media

Start at: 2018-06-19 09:39:29
End at: 2018-06-19 09:39:59
Local clock offset: 0.037 ms
Remote clock offset: -6.645 ms

Below is generated by plot.py at 2018-06-19 12:36:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 17.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 17.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 17.082 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 17.193 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

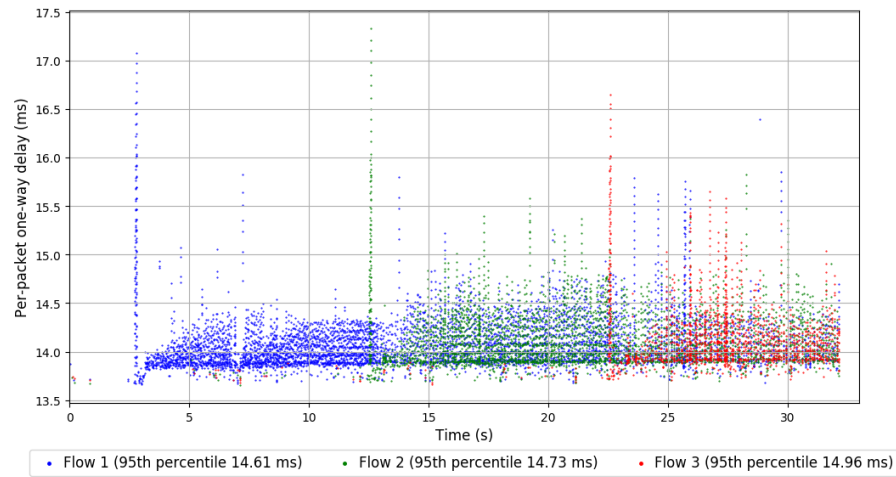
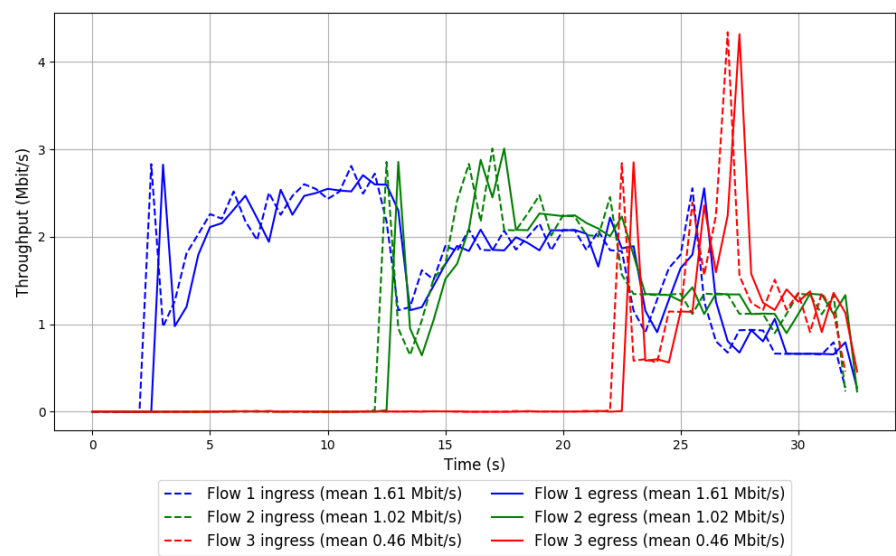


Run 3: Statistics of WebRTC media

Start at: 2018-06-19 09:58:37
End at: 2018-06-19 09:59:07
Local clock offset: -0.029 ms
Remote clock offset: -1.498 ms

Below is generated by plot.py at 2018-06-19 12:36:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 14.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 14.614 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 14.728 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 14.955 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

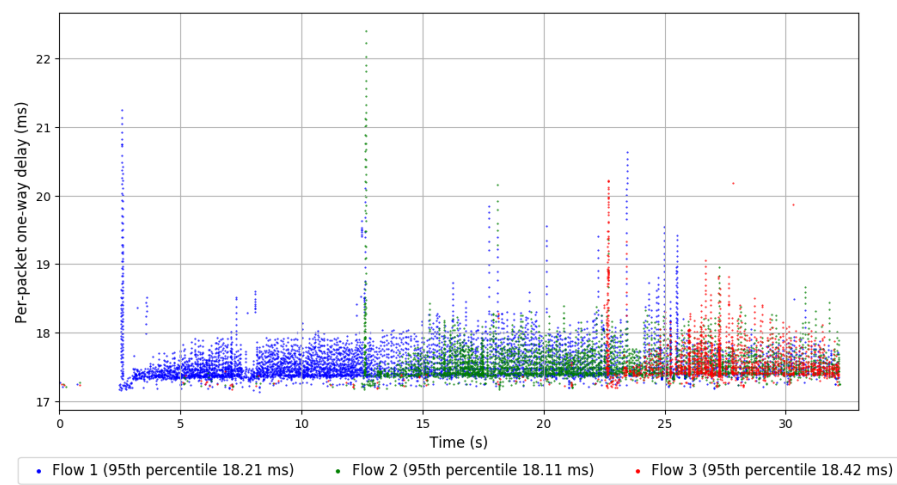
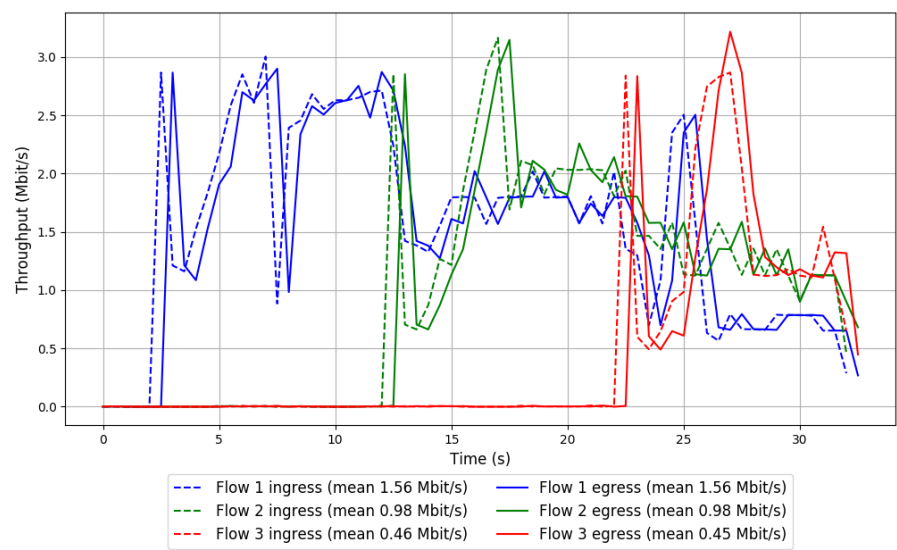


Run 4: Statistics of WebRTC media

Start at: 2018-06-19 10:18:06
End at: 2018-06-19 10:18:36
Local clock offset: -2.361 ms
Remote clock offset: -3.544 ms

Below is generated by plot.py at 2018-06-19 12:36:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 18.199 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 18.209 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 18.106 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 18.416 ms
Loss rate: 0.70%

Run 4: Report of WebRTC media — Data Link

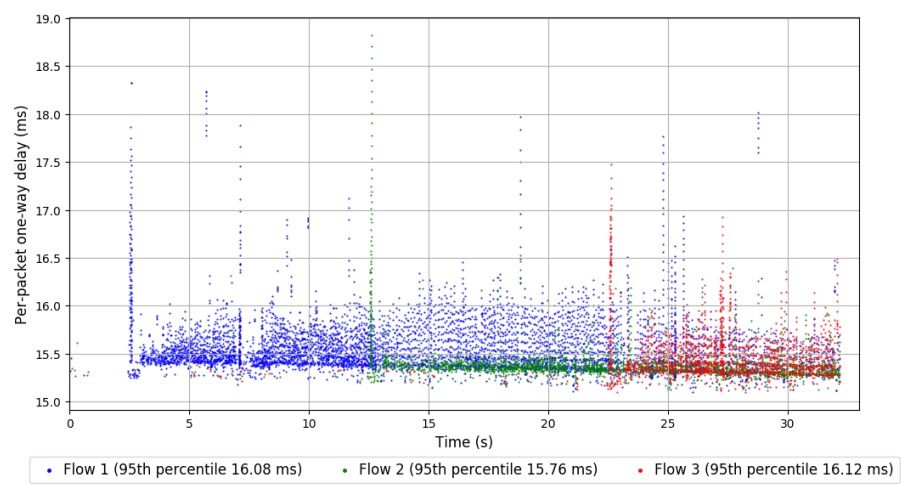
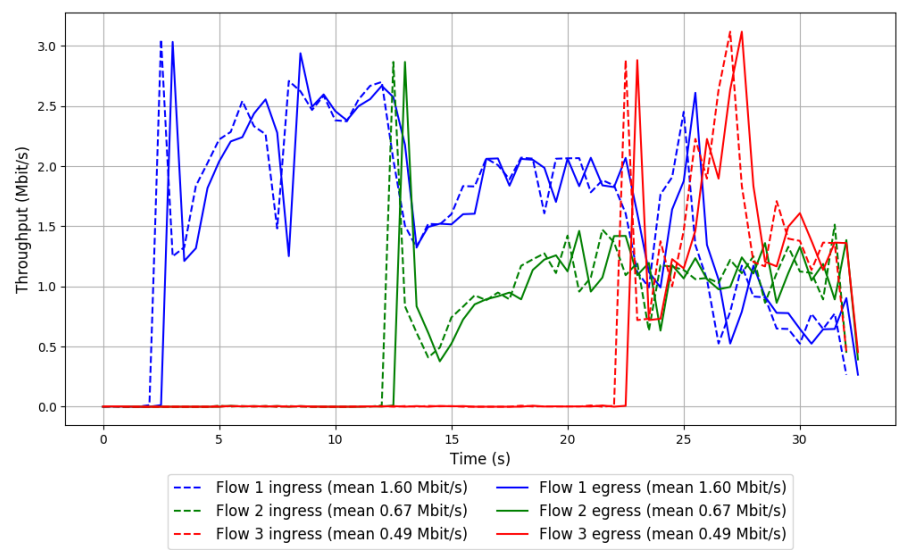


Run 5: Statistics of WebRTC media

Start at: 2018-06-19 10:37:10
End at: 2018-06-19 10:37:40
Local clock offset: -0.664 ms
Remote clock offset: -6.617 ms

Below is generated by plot.py at 2018-06-19 12:36:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 16.046 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 16.084 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 15.756 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 16.125 ms
Loss rate: 0.01%

Run 5: Report of WebRTC media — Data Link

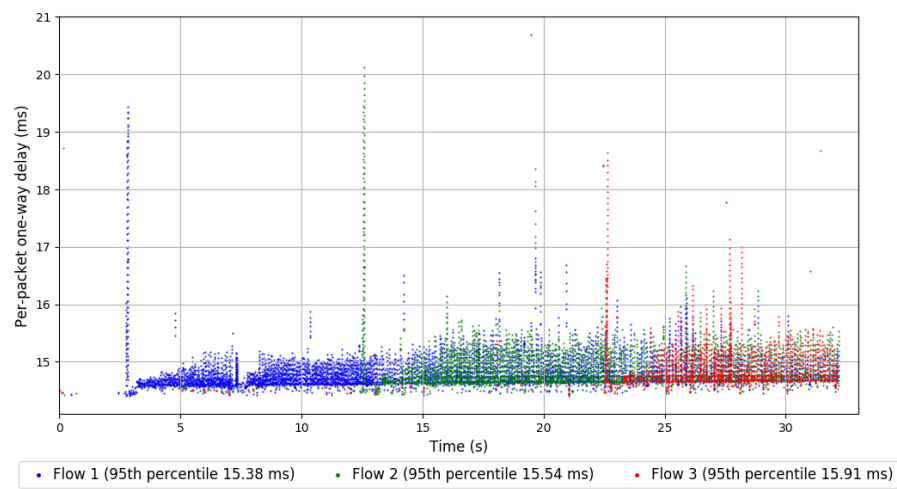
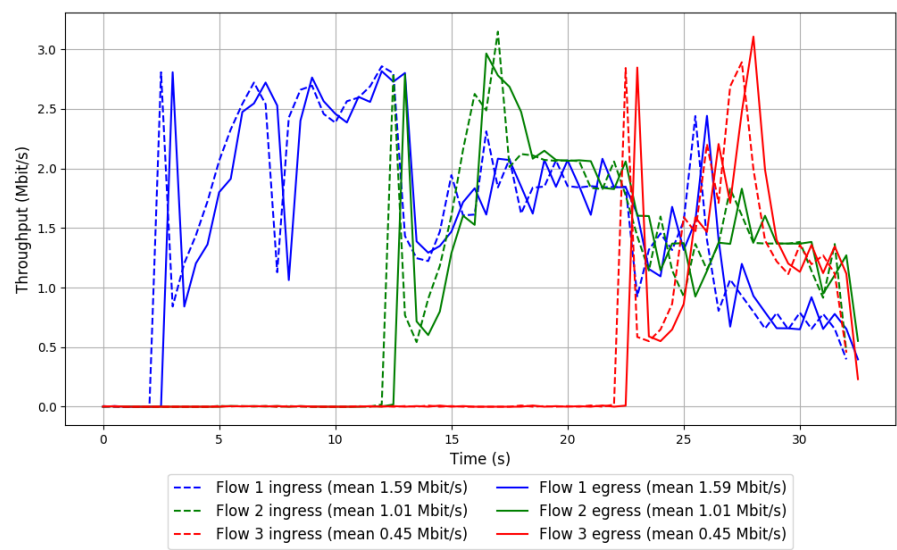


Run 6: Statistics of WebRTC media

Start at: 2018-06-19 10:56:34
End at: 2018-06-19 10:57:04
Local clock offset: -0.651 ms
Remote clock offset: -6.505 ms

Below is generated by plot.py at 2018-06-19 12:36:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 15.526 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 15.381 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 15.535 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 15.912 ms
Loss rate: 0.76%

Run 6: Report of WebRTC media — Data Link

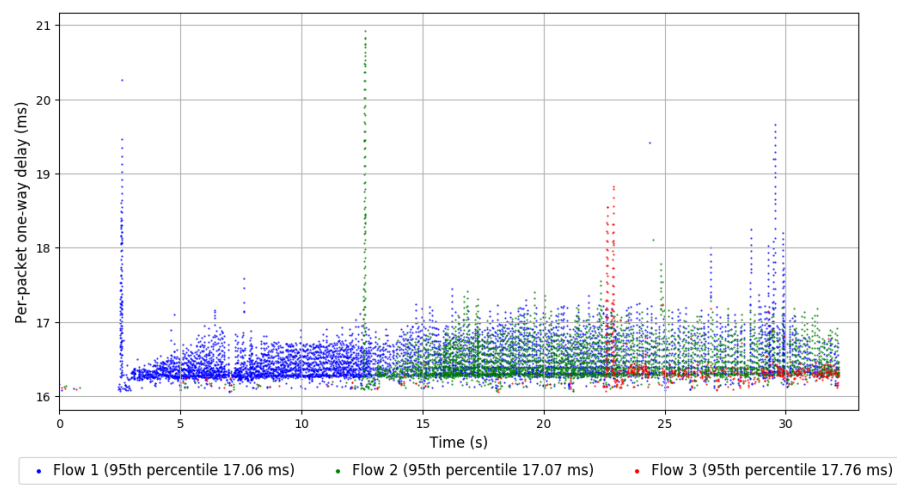
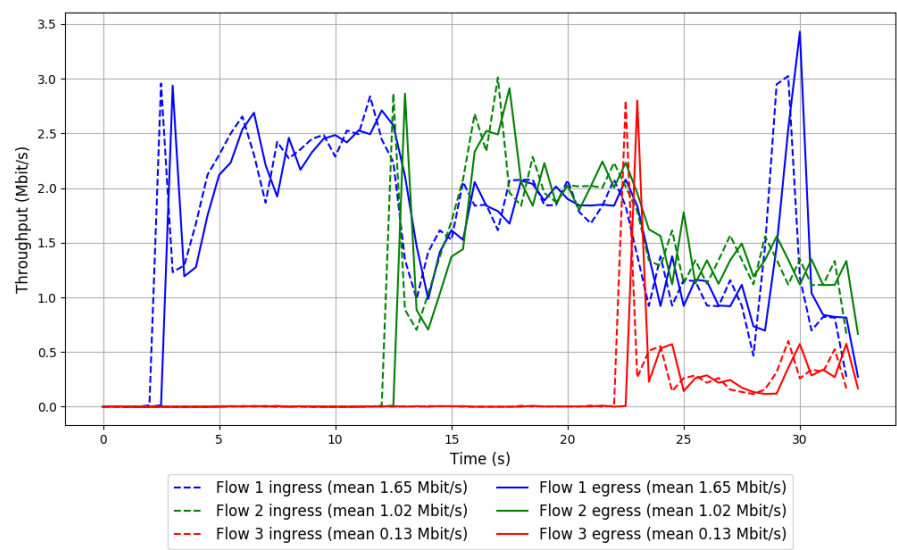


Run 7: Statistics of WebRTC media

Start at: 2018-06-19 11:15:42
End at: 2018-06-19 11:16:12
Local clock offset: 1.588 ms
Remote clock offset: -3.479 ms

Below is generated by plot.py at 2018-06-19 12:36:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 17.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 17.056 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 17.068 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 17.760 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

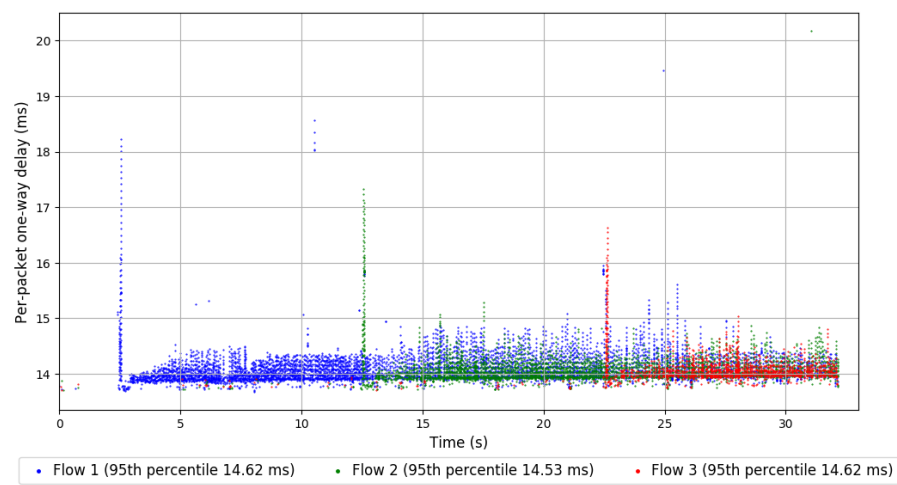
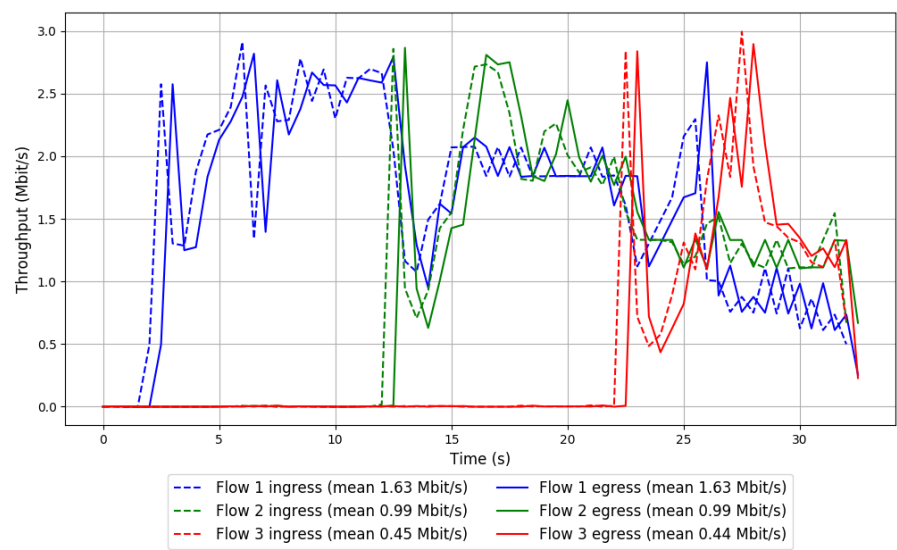


Run 8: Statistics of WebRTC media

Start at: 2018-06-19 11:34:43
End at: 2018-06-19 11:35:13
Local clock offset: 0.258 ms
Remote clock offset: -0.988 ms

Below is generated by plot.py at 2018-06-19 12:36:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 14.584 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 14.617 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 14.529 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 14.619 ms
Loss rate: 1.54%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-19 11:53:50

End at: 2018-06-19 11:54:20

Local clock offset: -0.815 ms

Remote clock offset: 1.263 ms

Below is generated by plot.py at 2018-06-19 12:36:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 13.877 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 13.776 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 13.877 ms

Loss rate: 0.35%

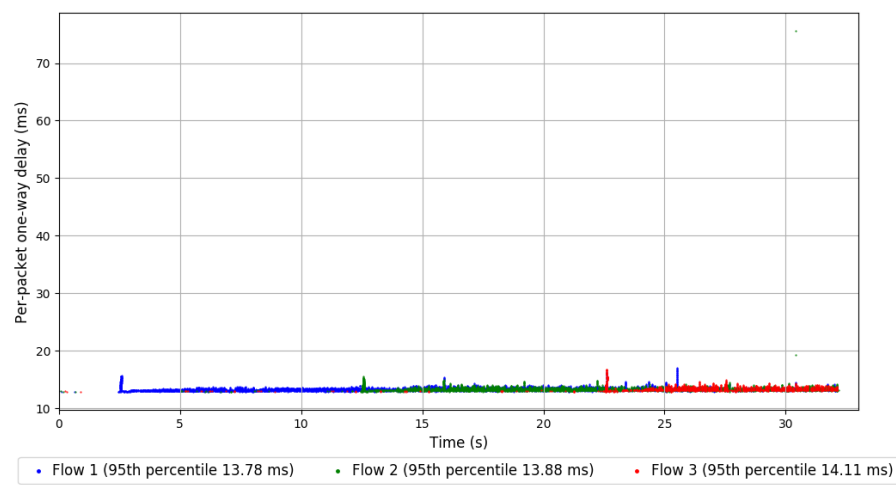
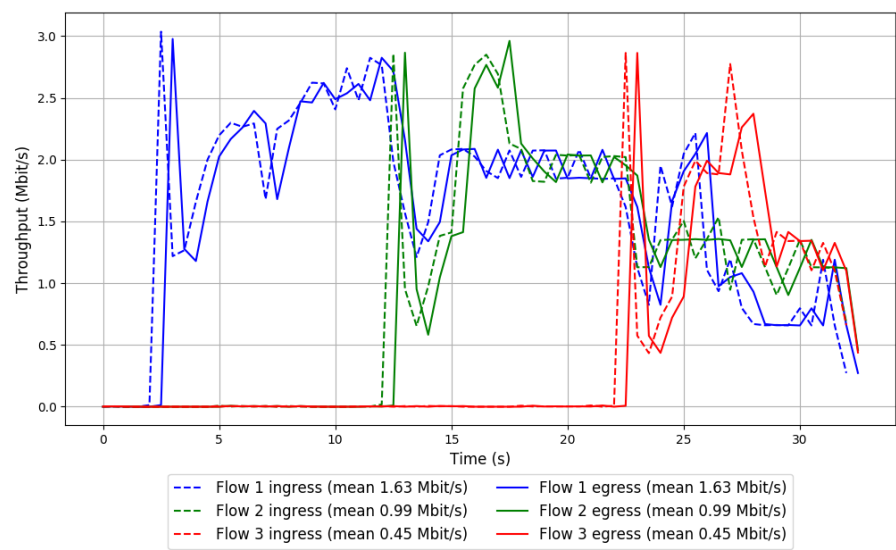
-- Flow 3:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 14.106 ms

Loss rate: 0.76%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 12:13:05
End at: 2018-06-19 12:13:35
Local clock offset: -1.348 ms
Remote clock offset: -10.473 ms

Below is generated by plot.py at 2018-06-19 12:36:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 21.092 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 21.081 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 21.110 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 21.157 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

