

Pantheon Report

Generated at 2018-01-10 02:25:56 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

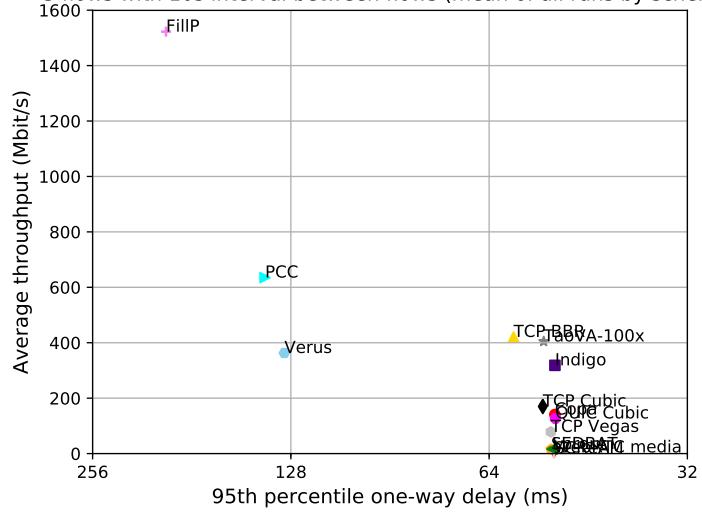
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

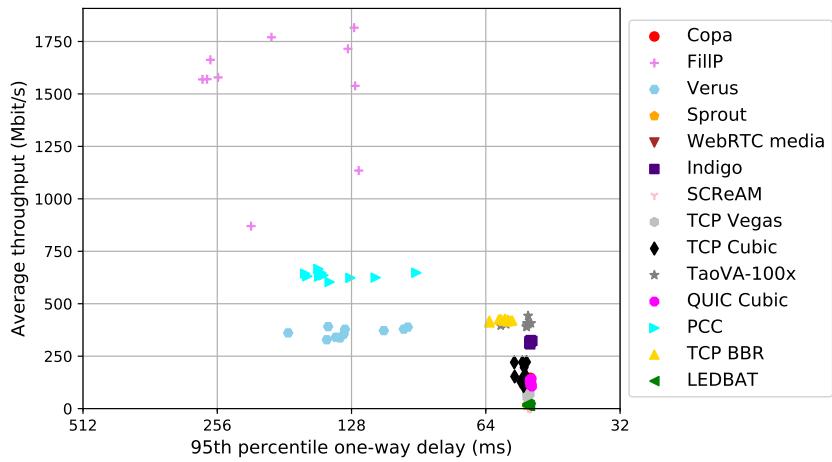
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



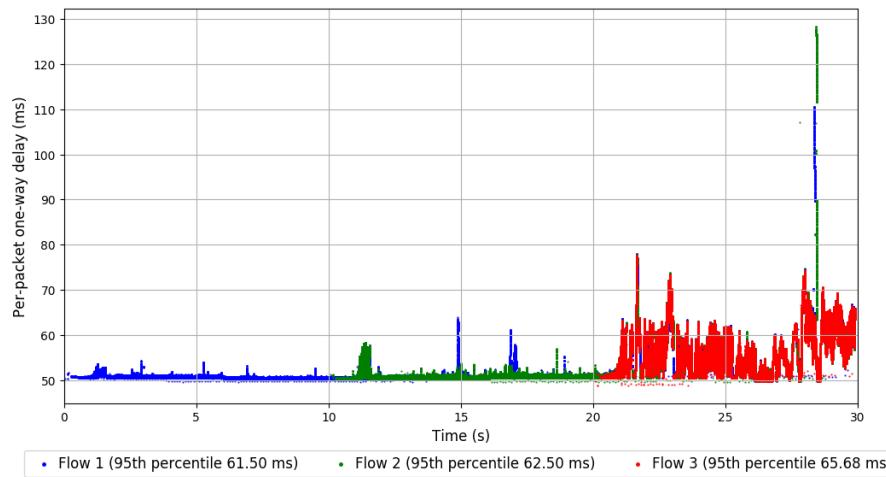
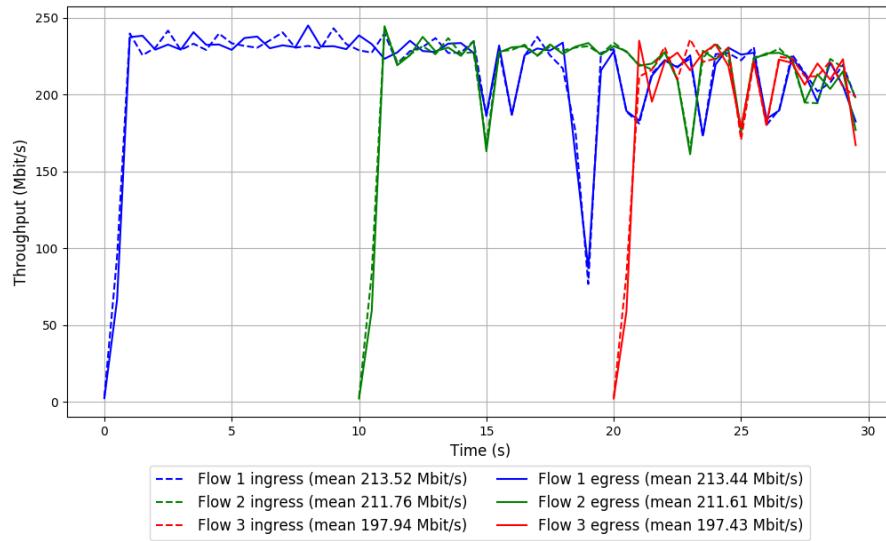
| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 10 | 214.01 | 212.06 | 200.15 | 57.75 | 58.69 | 60.67 | 0.39 | 0.55 | 1.21 |
| TCP Cubic | 10 | 78.42 | 88.57 | 99.61 | 52.45 | 53.18 | 53.40 | 0.59 | 0.83 | 1.16 |
| LEDBAT | 10 | 8.66 | 8.59 | 6.08 | 51.40 | 51.23 | 51.33 | 1.20 | 1.30 | 2.38 |
| PCC | 10 | 583.19 | 52.81 | 51.88 | 141.11 | 135.32 | 135.50 | 1.00 | 0.95 | 1.71 |
| QUIC Cubic | 10 | 68.36 | 62.92 | 51.11 | 50.58 | 50.70 | 50.44 | 0.36 | 0.48 | 0.96 |
| SCReAM | 10 | 0.22 | 0.22 | 0.22 | 50.95 | 50.85 | 50.59 | 0.26 | 0.46 | 1.14 |
| WebRTC media | 10 | 2.23 | 1.41 | 0.57 | 50.93 | 50.87 | 50.81 | 0.43 | 0.61 | 1.48 |
| Sprout | 10 | 7.83 | 7.75 | 7.45 | 51.55 | 51.51 | 51.49 | 0.83 | 0.86 | 1.43 |
| TaoVA-100x | 10 | 220.50 | 211.46 | 179.21 | 52.50 | 51.98 | 54.28 | 0.28 | 0.46 | 1.53 |
| TCP Vegas | 10 | 32.61 | 40.30 | 57.43 | 51.72 | 51.57 | 51.99 | 0.51 | 0.68 | 1.39 |
| Verus | 10 | 218.04 | 160.88 | 119.02 | 118.32 | 138.72 | 135.87 | 0.87 | 0.95 | 1.52 |
| Copa | 10 | 76.47 | 71.47 | 66.53 | 50.78 | 50.78 | 50.67 | 0.33 | 0.50 | 1.41 |
| FillP | 10 | 838.37 | 655.39 | 758.15 | 174.52 | 195.63 | 147.41 | 3.47 | 6.95 | 5.09 |
| Indigo | 8 | 170.99 | 159.94 | 127.61 | 50.81 | 50.88 | 50.83 | 0.31 | 0.49 | 1.06 |

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-09 20:05:55
End at: 2018-01-09 20:06:25

# Below is generated by plot.py at 2018-01-10 01:00:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.19 Mbit/s
95th percentile per-packet one-way delay: 62.838 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 213.44 Mbit/s
95th percentile per-packet one-way delay: 61.501 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 211.61 Mbit/s
95th percentile per-packet one-way delay: 62.496 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 197.43 Mbit/s
95th percentile per-packet one-way delay: 65.682 ms
Loss rate: 1.26%
```

Run 1: Report of TCP BBR — Data Link



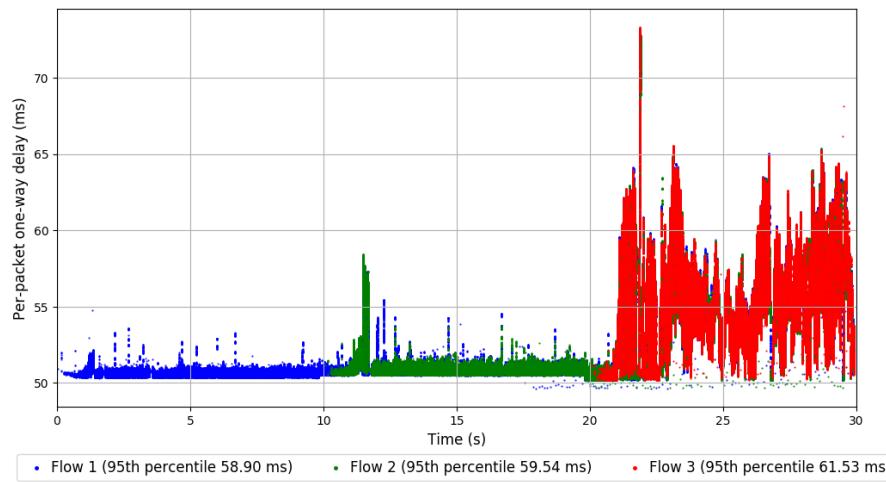
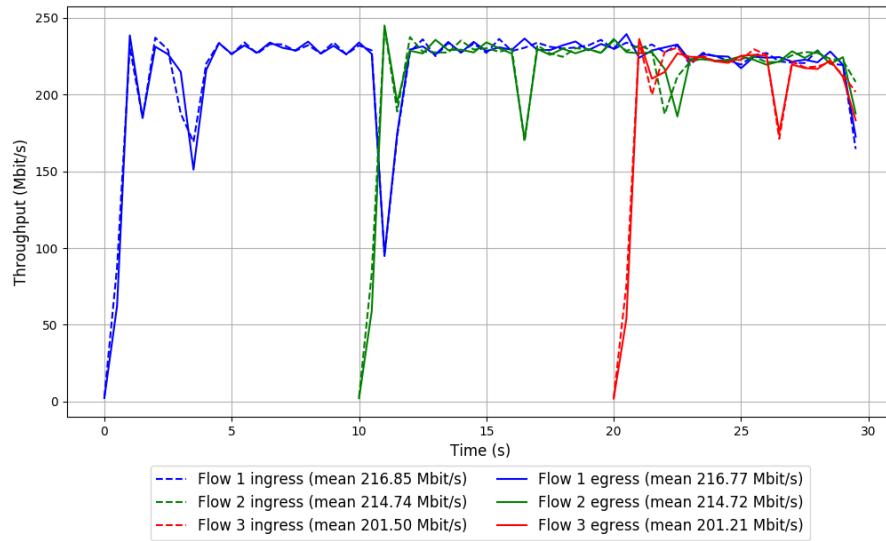
Run 2: Statistics of TCP BBR

Start at: 2018-01-09 20:20:11

End at: 2018-01-09 20:20:41

```
# Below is generated by plot.py at 2018-01-10 01:01:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 425.77 Mbit/s
95th percentile per-packet one-way delay: 59.808 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 216.77 Mbit/s
95th percentile per-packet one-way delay: 58.901 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 214.72 Mbit/s
95th percentile per-packet one-way delay: 59.539 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 201.21 Mbit/s
95th percentile per-packet one-way delay: 61.529 ms
Loss rate: 1.14%
```

Run 2: Report of TCP BBR — Data Link



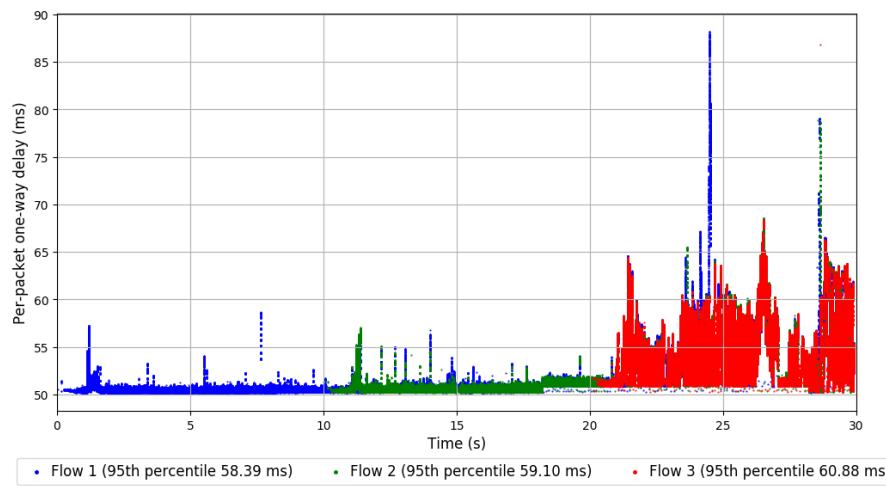
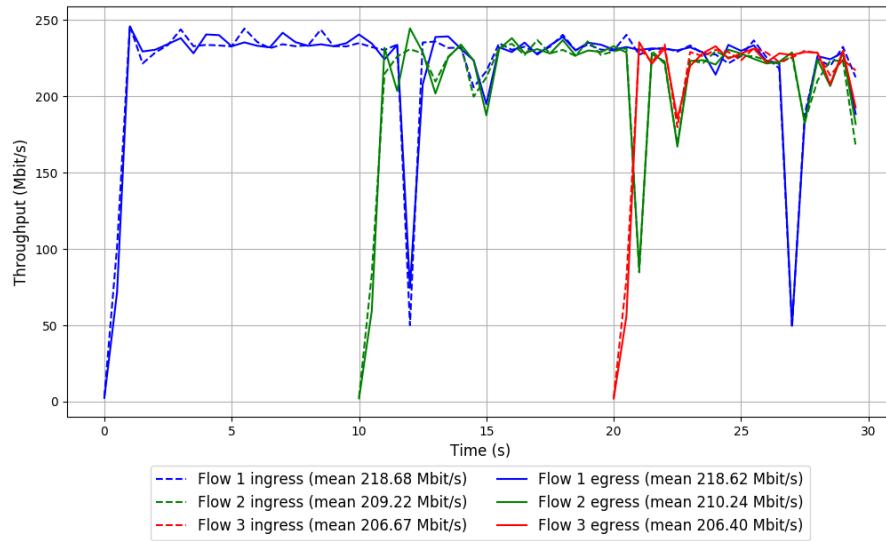
Run 3: Statistics of TCP BBR

Start at: 2018-01-09 20:33:43

End at: 2018-01-09 20:34:13

```
# Below is generated by plot.py at 2018-01-10 01:01:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 426.30 Mbit/s
95th percentile per-packet one-way delay: 59.201 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 218.62 Mbit/s
95th percentile per-packet one-way delay: 58.392 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 210.24 Mbit/s
95th percentile per-packet one-way delay: 59.103 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 206.40 Mbit/s
95th percentile per-packet one-way delay: 60.878 ms
Loss rate: 1.16%
```

Run 3: Report of TCP BBR — Data Link



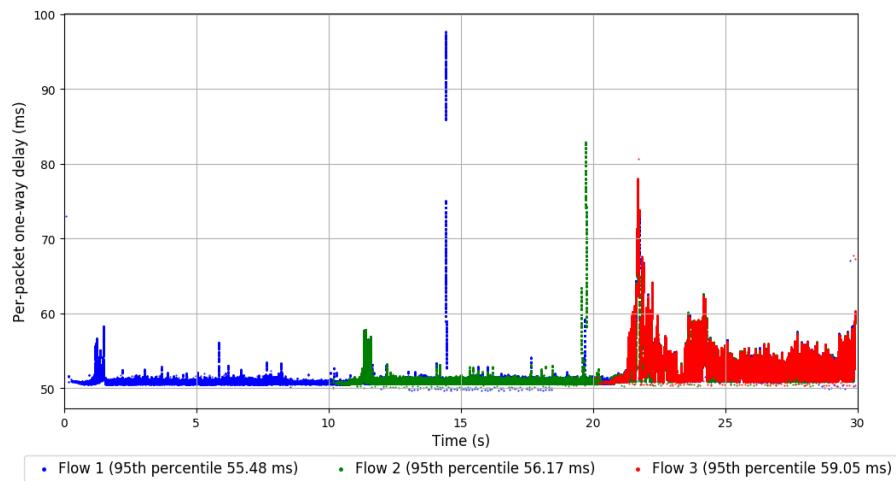
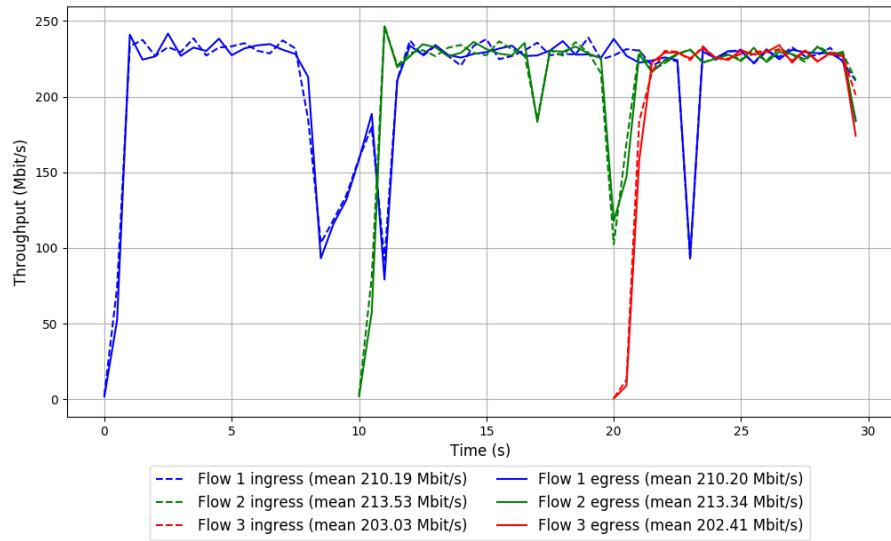
Run 4: Statistics of TCP BBR

Start at: 2018-01-09 20:48:00

End at: 2018-01-09 20:48:30

```
# Below is generated by plot.py at 2018-01-10 01:01:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.73 Mbit/s
95th percentile per-packet one-way delay: 56.423 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 210.20 Mbit/s
95th percentile per-packet one-way delay: 55.476 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 213.34 Mbit/s
95th percentile per-packet one-way delay: 56.167 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 202.41 Mbit/s
95th percentile per-packet one-way delay: 59.045 ms
Loss rate: 1.25%
```

Run 4: Report of TCP BBR — Data Link



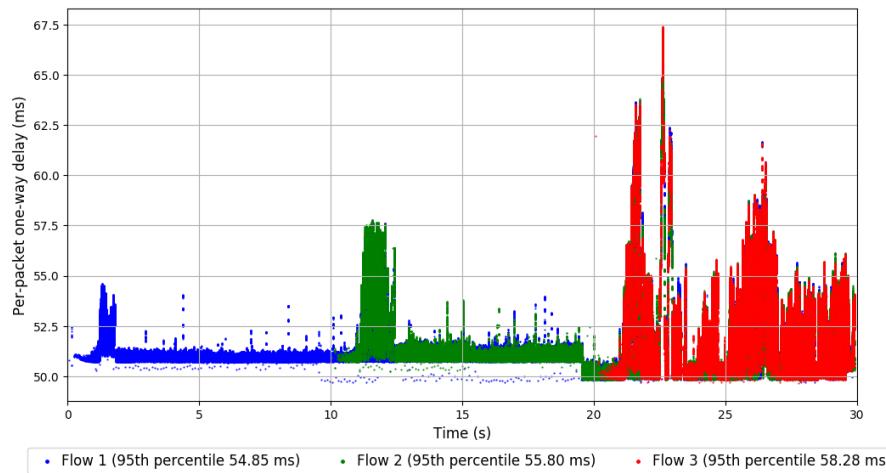
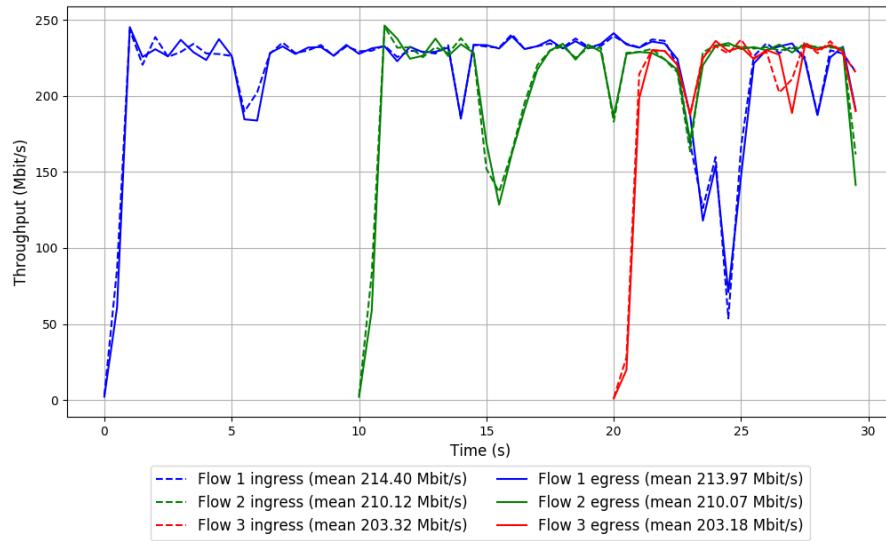
Run 5: Statistics of TCP BBR

Start at: 2018-01-09 21:02:01

End at: 2018-01-09 21:02:31

```
# Below is generated by plot.py at 2018-01-10 01:01:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.50 Mbit/s
95th percentile per-packet one-way delay: 55.845 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 213.97 Mbit/s
95th percentile per-packet one-way delay: 54.855 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 210.07 Mbit/s
95th percentile per-packet one-way delay: 55.801 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 203.18 Mbit/s
95th percentile per-packet one-way delay: 58.282 ms
Loss rate: 1.22%
```

Run 5: Report of TCP BBR — Data Link



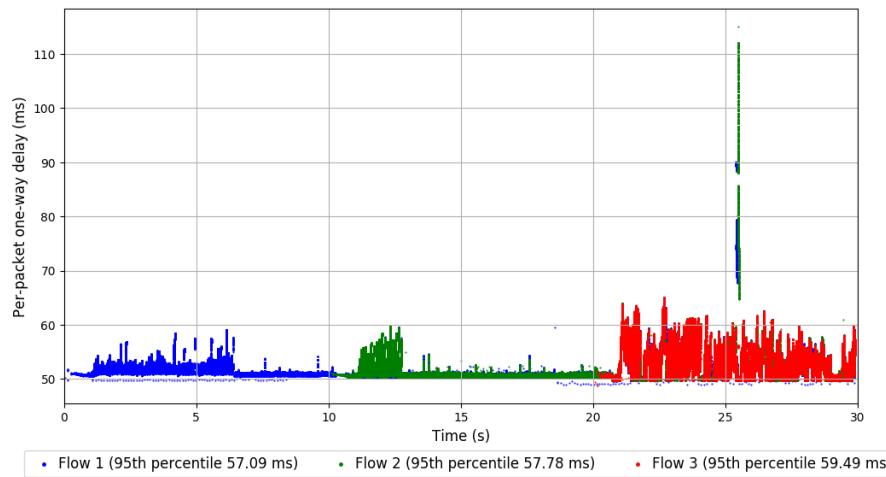
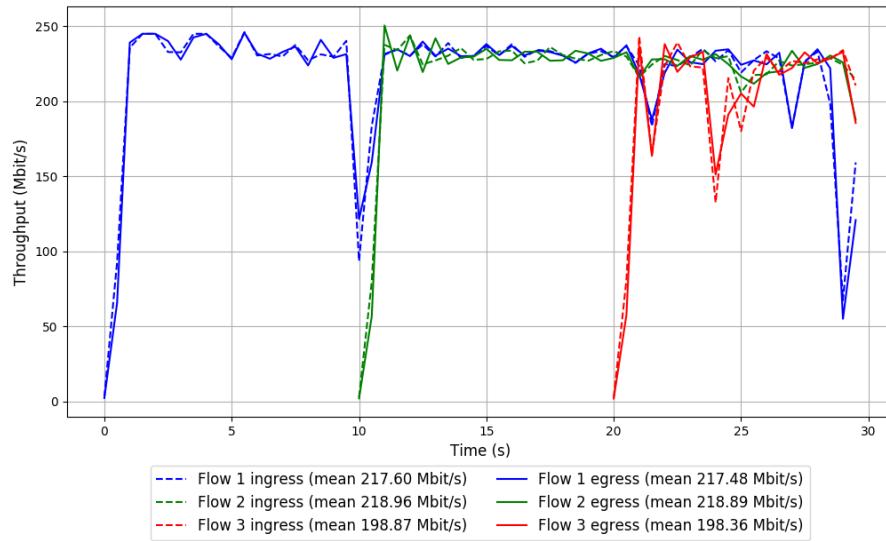
Run 6: Statistics of TCP BBR

Start at: 2018-01-09 21:16:20

End at: 2018-01-09 21:16:50

```
# Below is generated by plot.py at 2018-01-10 01:01:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 428.34 Mbit/s
95th percentile per-packet one-way delay: 57.931 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 217.48 Mbit/s
95th percentile per-packet one-way delay: 57.094 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 218.89 Mbit/s
95th percentile per-packet one-way delay: 57.778 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 198.36 Mbit/s
95th percentile per-packet one-way delay: 59.486 ms
Loss rate: 1.27%
```

Run 6: Report of TCP BBR — Data Link

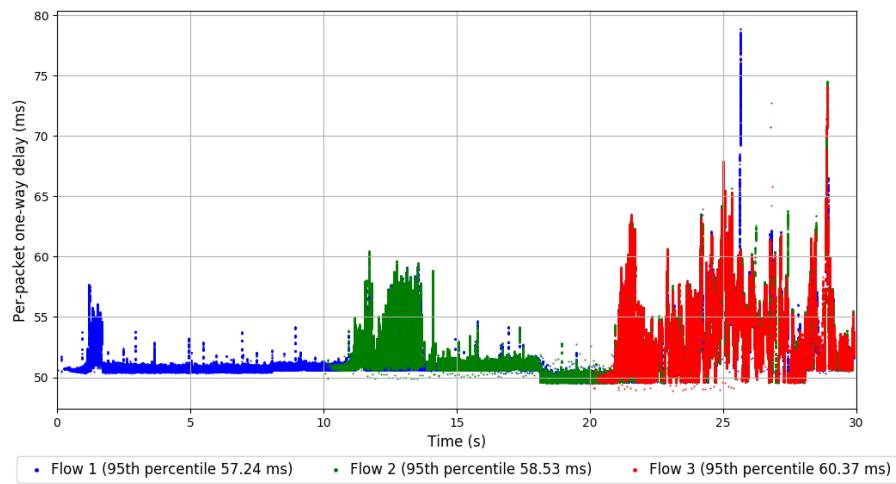
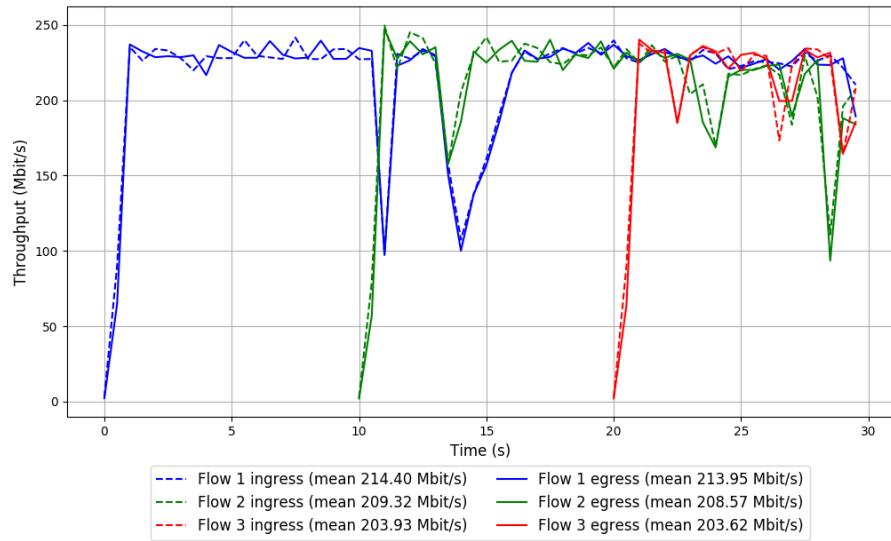


```
Run 7: Statistics of TCP BBR

Start at: 2018-01-09 21:30:43
End at: 2018-01-09 21:31:13

# Below is generated by plot.py at 2018-01-10 01:01:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.59 Mbit/s
95th percentile per-packet one-way delay: 58.417 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 213.95 Mbit/s
95th percentile per-packet one-way delay: 57.236 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 208.57 Mbit/s
95th percentile per-packet one-way delay: 58.529 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 203.62 Mbit/s
95th percentile per-packet one-way delay: 60.369 ms
Loss rate: 1.16%
```

Run 7: Report of TCP BBR — Data Link



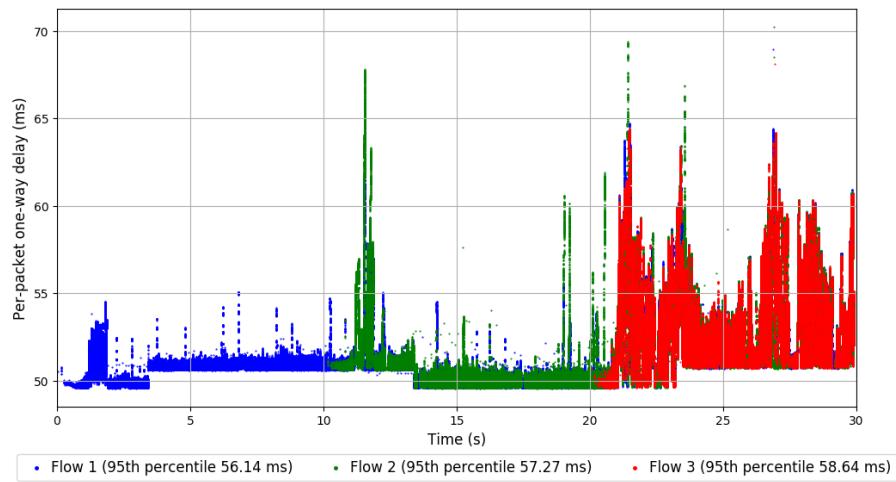
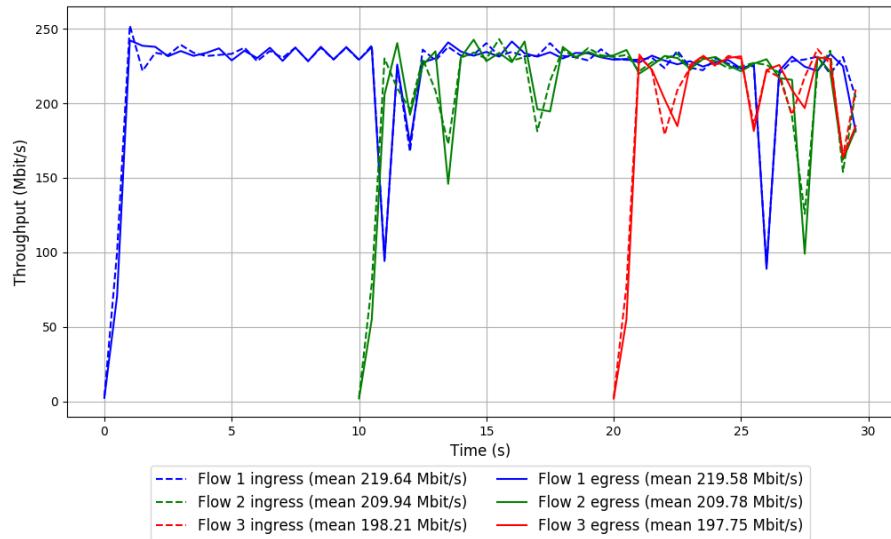
Run 8: Statistics of TCP BBR

Start at: 2018-01-09 21:44:57

End at: 2018-01-09 21:45:27

```
# Below is generated by plot.py at 2018-01-10 01:01:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.08 Mbit/s
95th percentile per-packet one-way delay: 57.083 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 219.58 Mbit/s
95th percentile per-packet one-way delay: 56.142 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 209.78 Mbit/s
95th percentile per-packet one-way delay: 57.271 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 197.75 Mbit/s
95th percentile per-packet one-way delay: 58.641 ms
Loss rate: 1.25%
```

Run 8: Report of TCP BBR — Data Link



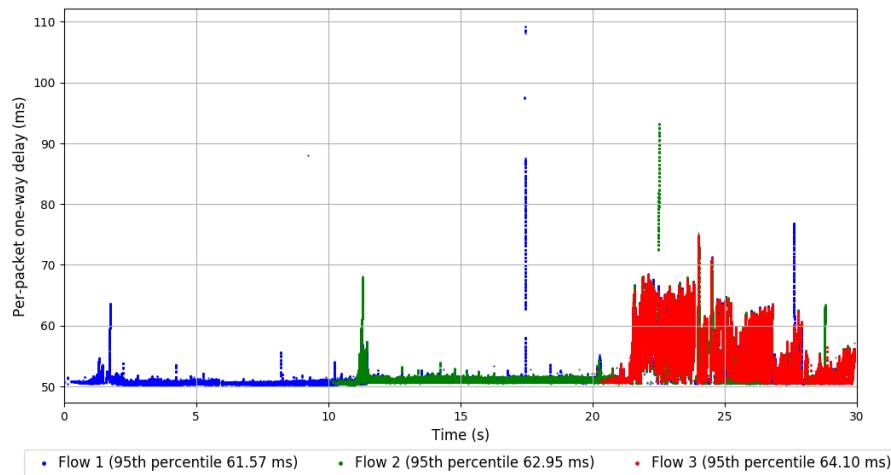
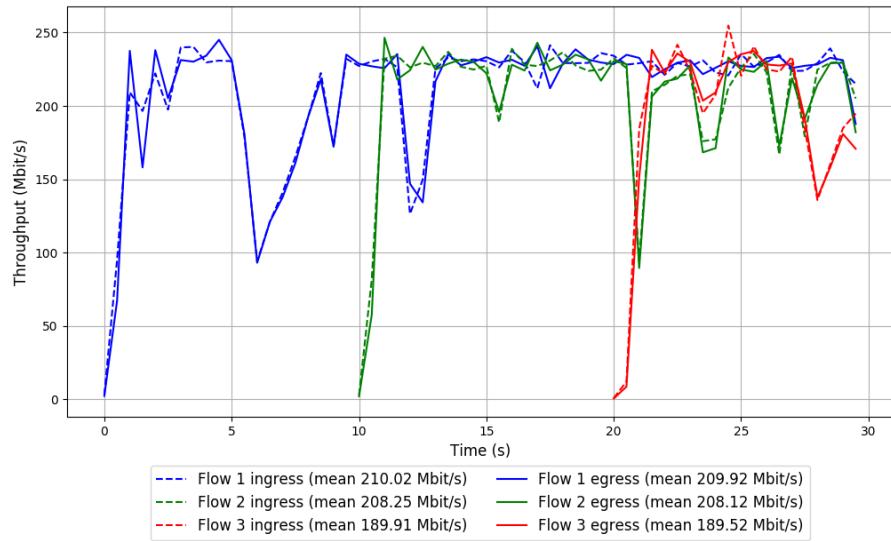
Run 9: Statistics of TCP BBR

Start at: 2018-01-09 21:58:19

End at: 2018-01-09 21:58:49

```
# Below is generated by plot.py at 2018-01-10 01:07:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.64 Mbit/s
95th percentile per-packet one-way delay: 62.824 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 209.92 Mbit/s
95th percentile per-packet one-way delay: 61.572 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 208.12 Mbit/s
95th percentile per-packet one-way delay: 62.952 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 189.52 Mbit/s
95th percentile per-packet one-way delay: 64.099 ms
Loss rate: 1.22%
```

Run 9: Report of TCP BBR — Data Link



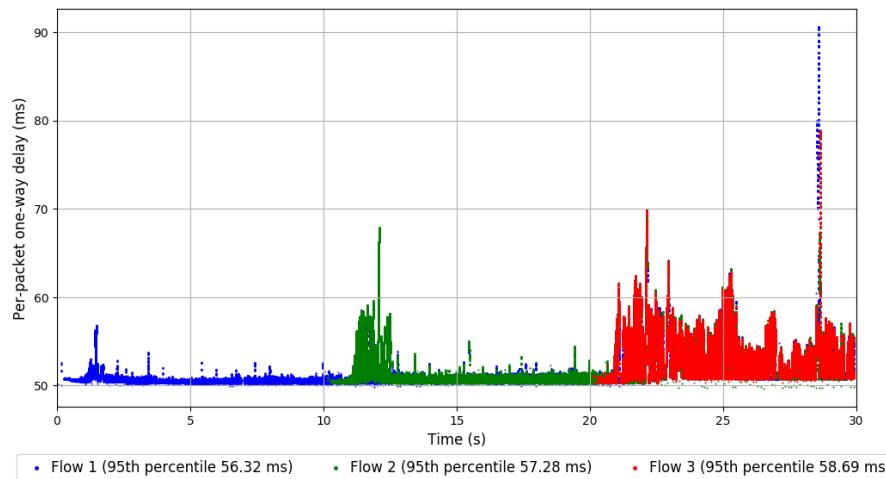
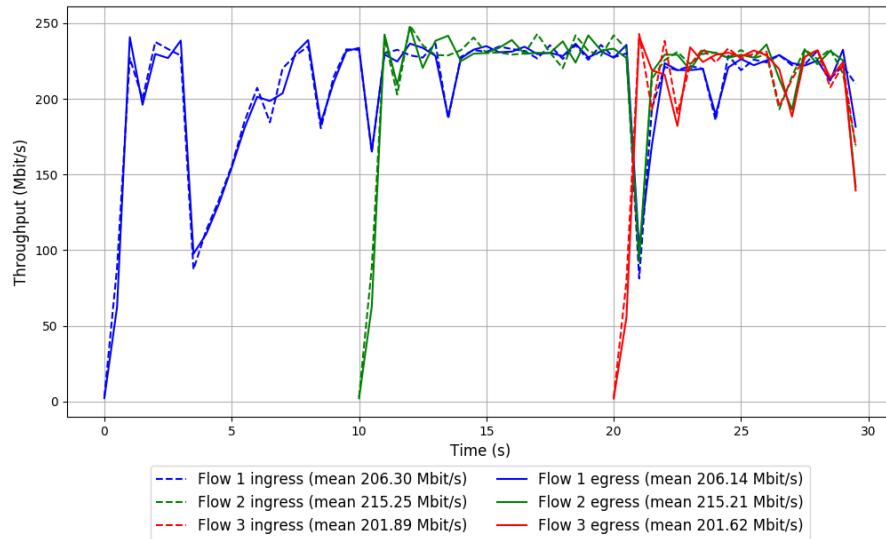
Run 10: Statistics of TCP BBR

Start at: 2018-01-09 22:12:28

End at: 2018-01-09 22:12:58

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.62 Mbit/s
95th percentile per-packet one-way delay: 57.161 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 206.14 Mbit/s
95th percentile per-packet one-way delay: 56.316 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 215.21 Mbit/s
95th percentile per-packet one-way delay: 57.283 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 201.62 Mbit/s
95th percentile per-packet one-way delay: 58.687 ms
Loss rate: 1.15%
```

Run 10: Report of TCP BBR — Data Link

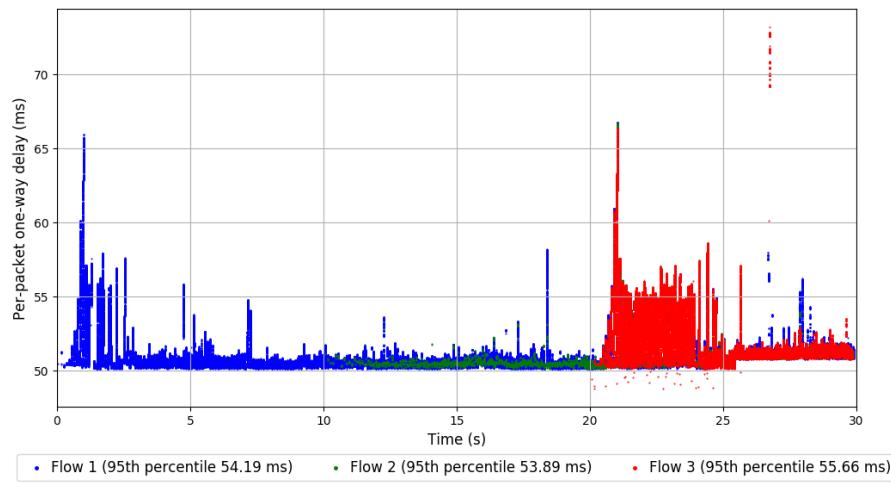
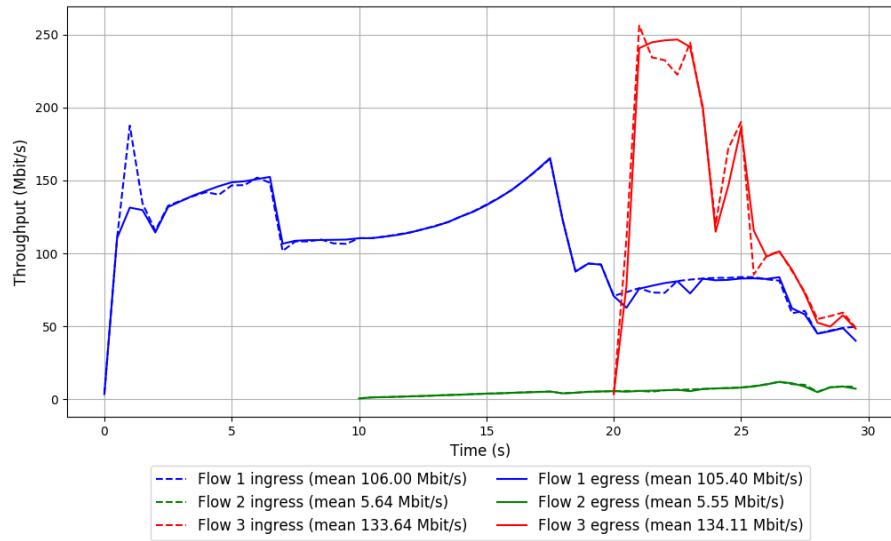


```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 20:07:45
End at: 2018-01-09 20:08:15

# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.19 Mbit/s
95th percentile per-packet one-way delay: 55.142 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 105.40 Mbit/s
95th percentile per-packet one-way delay: 54.191 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 53.890 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 134.11 Mbit/s
95th percentile per-packet one-way delay: 55.661 ms
Loss rate: 0.70%
```

Run 1: Report of TCP Cubic — Data Link

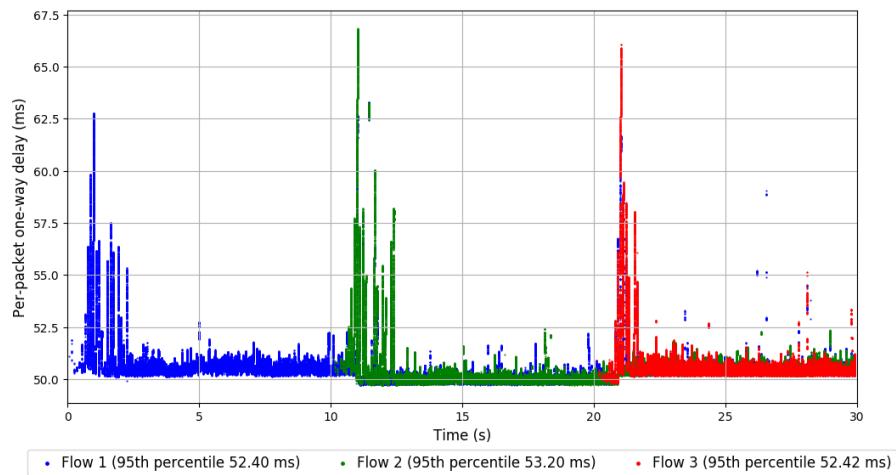
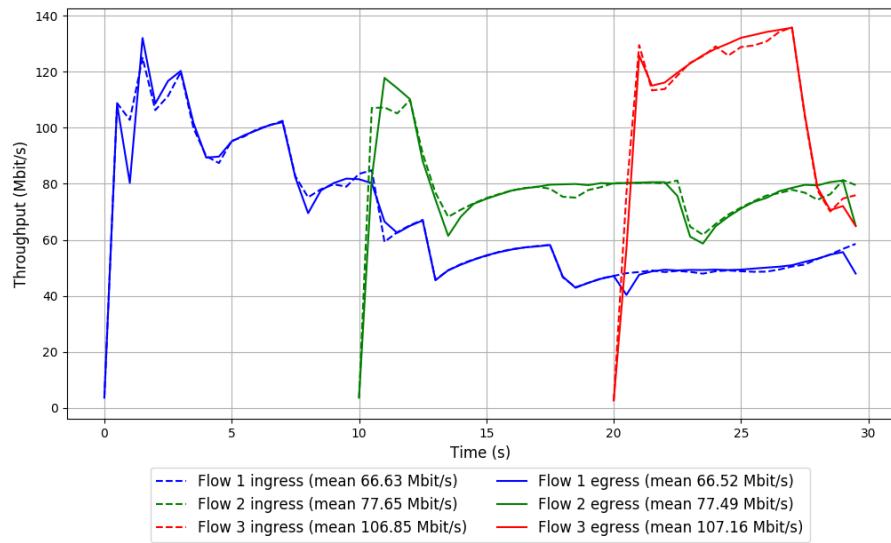


```
Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 20:22:00
End at: 2018-01-09 20:22:30

# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.18 Mbit/s
95th percentile per-packet one-way delay: 52.640 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 66.52 Mbit/s
95th percentile per-packet one-way delay: 52.400 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 77.49 Mbit/s
95th percentile per-packet one-way delay: 53.198 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 107.16 Mbit/s
95th percentile per-packet one-way delay: 52.425 ms
Loss rate: 0.74%
```

Run 2: Report of TCP Cubic — Data Link

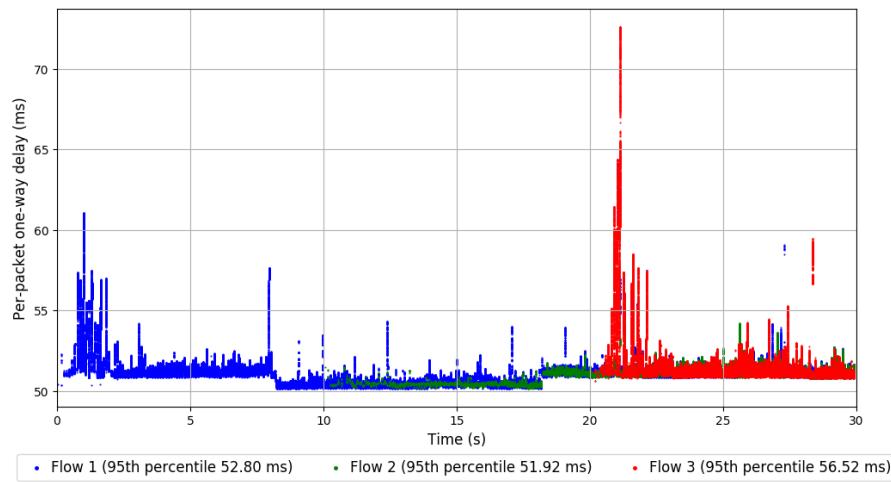
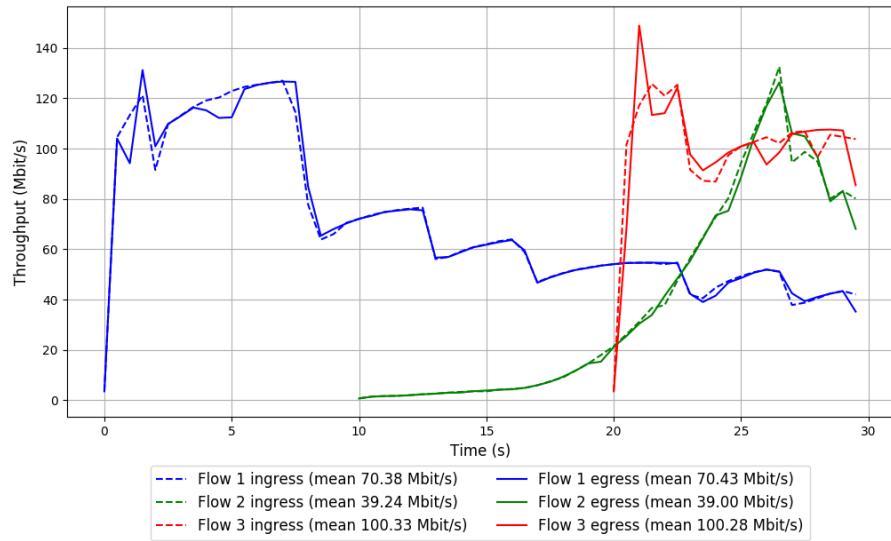


```
Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 20:35:33
End at: 2018-01-09 20:36:03

# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 129.32 Mbit/s
95th percentile per-packet one-way delay: 53.437 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 70.43 Mbit/s
95th percentile per-packet one-way delay: 52.796 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 51.924 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 100.28 Mbit/s
95th percentile per-packet one-way delay: 56.523 ms
Loss rate: 1.07%
```

Run 3: Report of TCP Cubic — Data Link



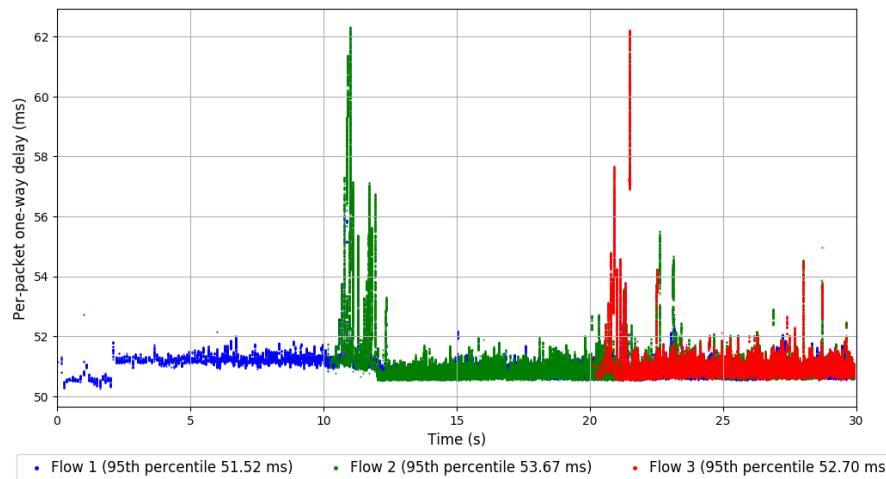
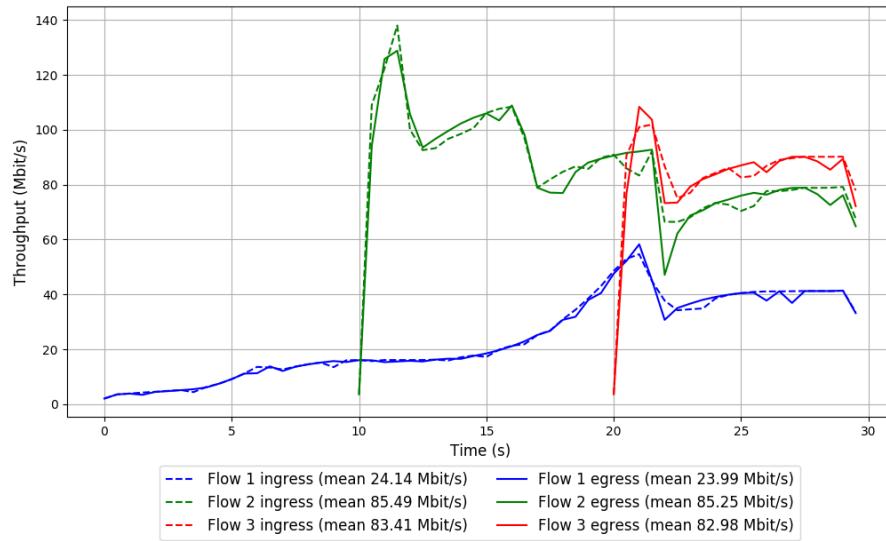
```
Run 4: Statistics of TCP Cubic
```

```
Start at: 2018-01-09 20:49:49
```

```
End at: 2018-01-09 20:50:19
```

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.02 Mbit/s
95th percentile per-packet one-way delay: 52.661 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 51.519 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 53.674 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 82.98 Mbit/s
95th percentile per-packet one-way delay: 52.697 ms
Loss rate: 1.48%
```

Run 4: Report of TCP Cubic — Data Link



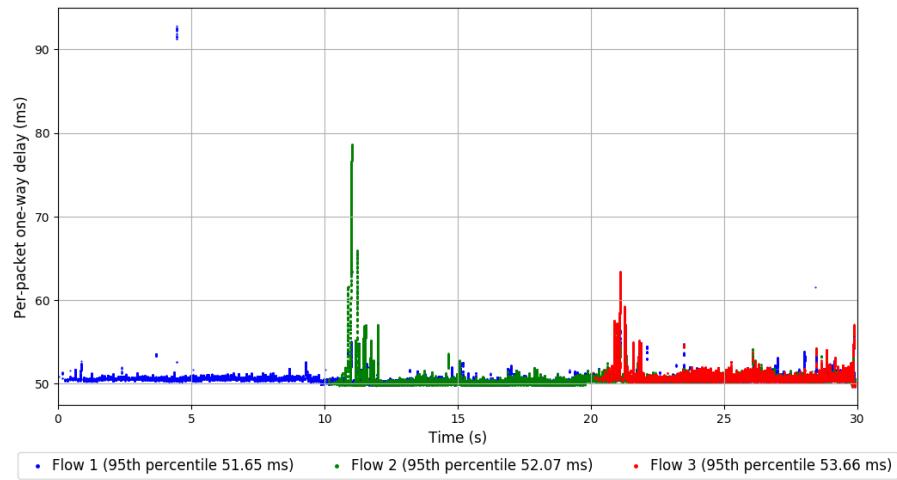
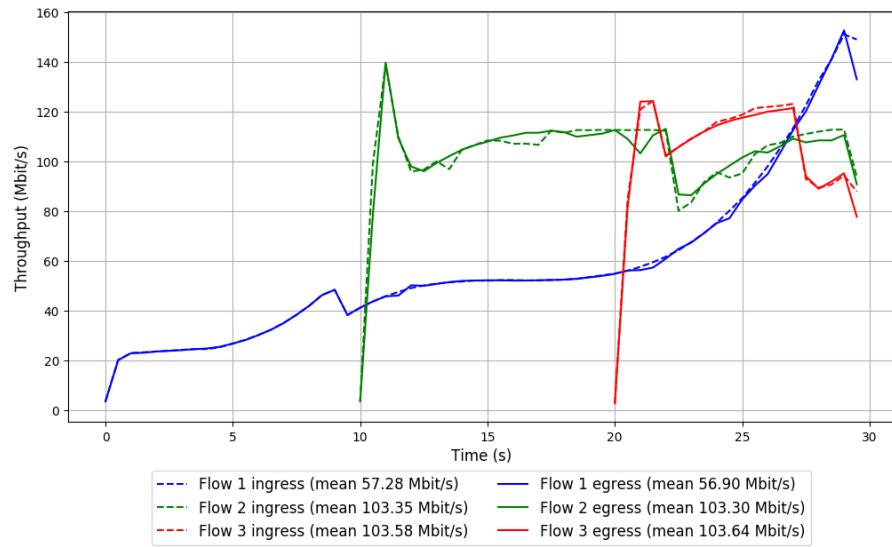
```
Run 5: Statistics of TCP Cubic
```

```
Start at: 2018-01-09 21:03:51
```

```
End at: 2018-01-09 21:04:21
```

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.73 Mbit/s
95th percentile per-packet one-way delay: 52.153 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 56.90 Mbit/s
95th percentile per-packet one-way delay: 51.653 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 103.30 Mbit/s
95th percentile per-packet one-way delay: 52.067 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 103.64 Mbit/s
95th percentile per-packet one-way delay: 53.660 ms
Loss rate: 0.94%
```

Run 5: Report of TCP Cubic — Data Link

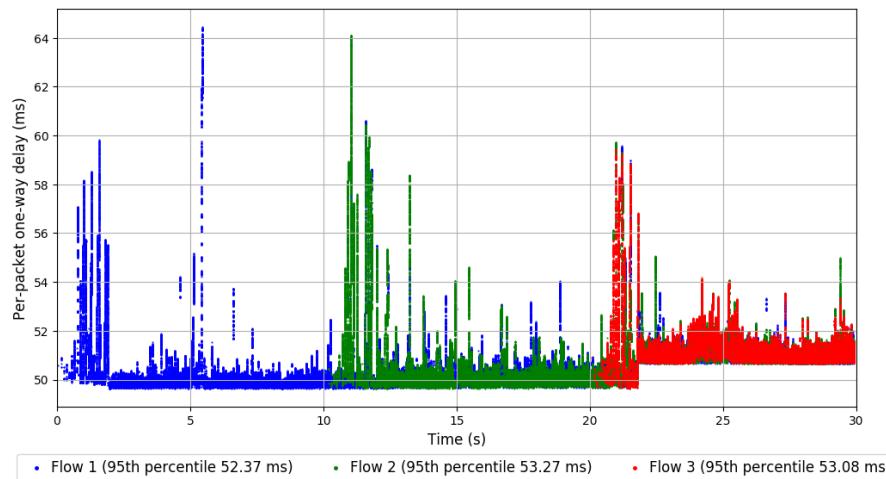
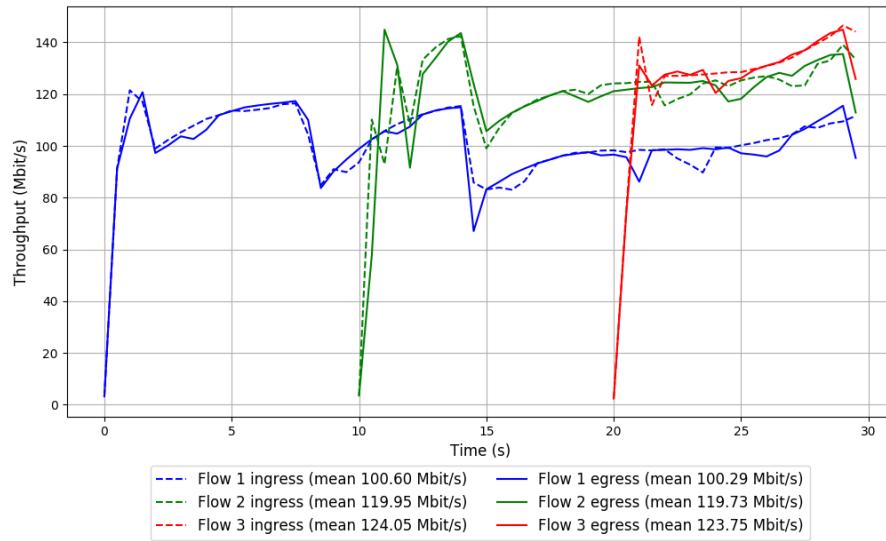


```
Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 21:18:09
End at: 2018-01-09 21:18:39

# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 220.67 Mbit/s
95th percentile per-packet one-way delay: 52.980 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 100.29 Mbit/s
95th percentile per-packet one-way delay: 52.365 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 119.73 Mbit/s
95th percentile per-packet one-way delay: 53.272 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 123.75 Mbit/s
95th percentile per-packet one-way delay: 53.083 ms
Loss rate: 1.24%
```

Run 6: Report of TCP Cubic — Data Link

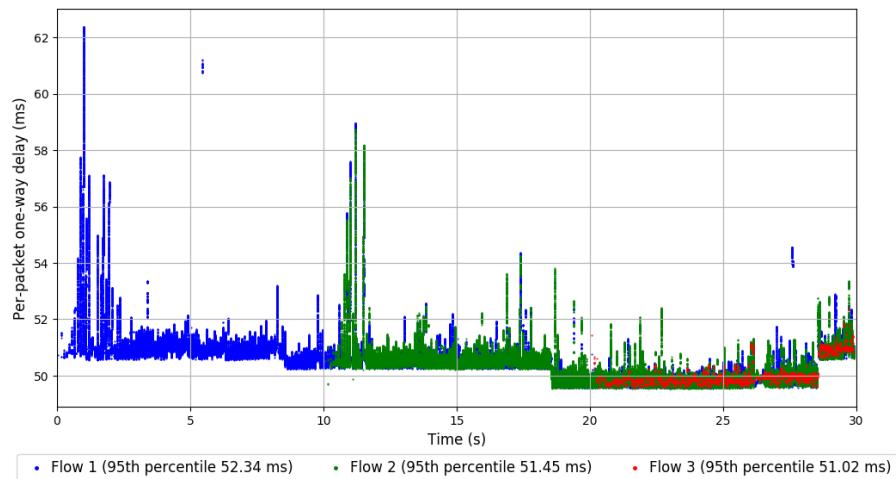
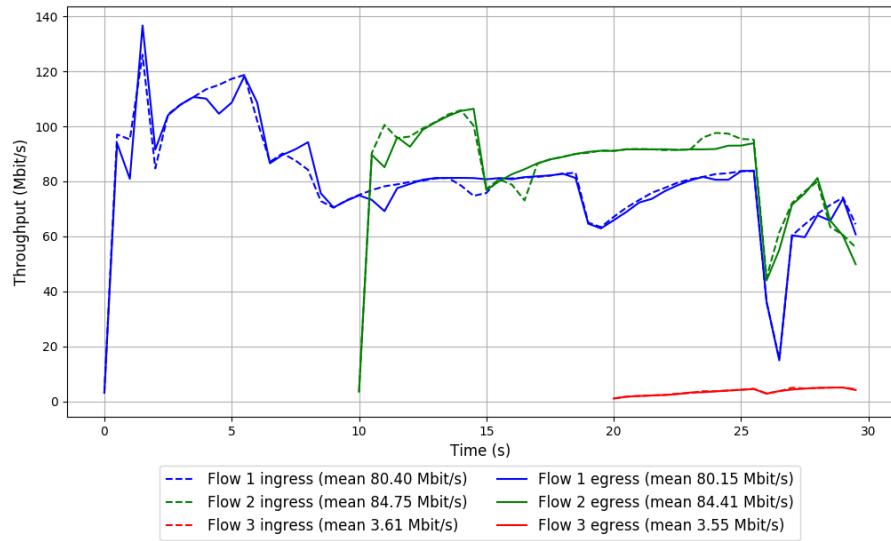


```
Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 21:32:32
End at: 2018-01-09 21:33:02

# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 137.42 Mbit/s
95th percentile per-packet one-way delay: 51.892 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 80.15 Mbit/s
95th percentile per-packet one-way delay: 52.340 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 84.41 Mbit/s
95th percentile per-packet one-way delay: 51.448 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 51.025 ms
Loss rate: 2.62%
```

Run 7: Report of TCP Cubic — Data Link



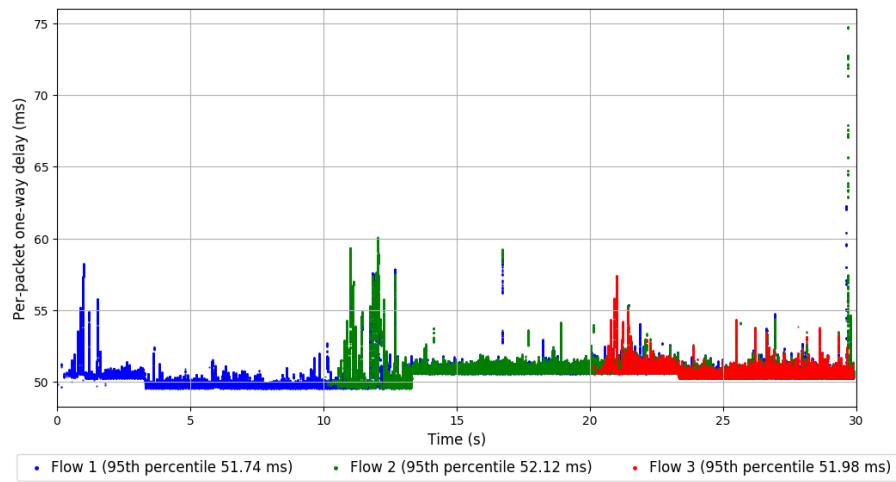
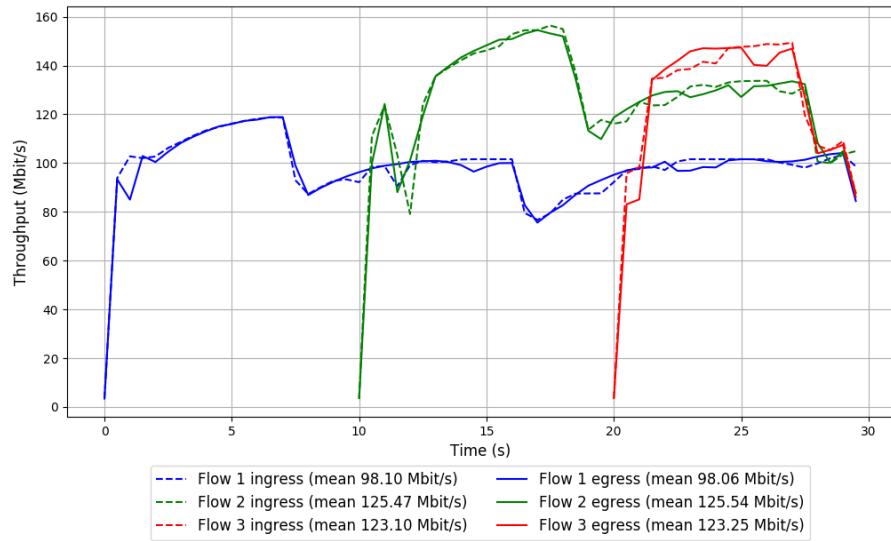
Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 21:46:47

End at: 2018-01-09 21:47:17

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.04 Mbit/s
95th percentile per-packet one-way delay: 51.881 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 98.06 Mbit/s
95th percentile per-packet one-way delay: 51.744 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 125.54 Mbit/s
95th percentile per-packet one-way delay: 52.125 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 123.25 Mbit/s
95th percentile per-packet one-way delay: 51.981 ms
Loss rate: 0.88%
```

Run 8: Report of TCP Cubic — Data Link



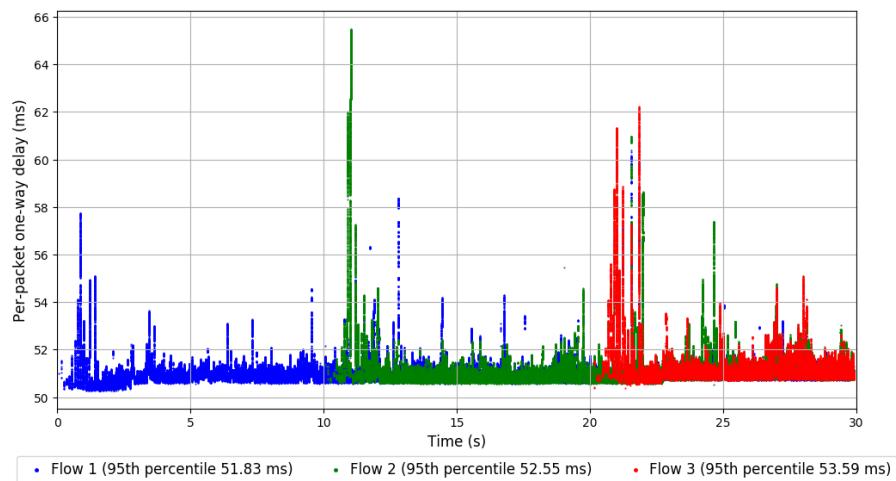
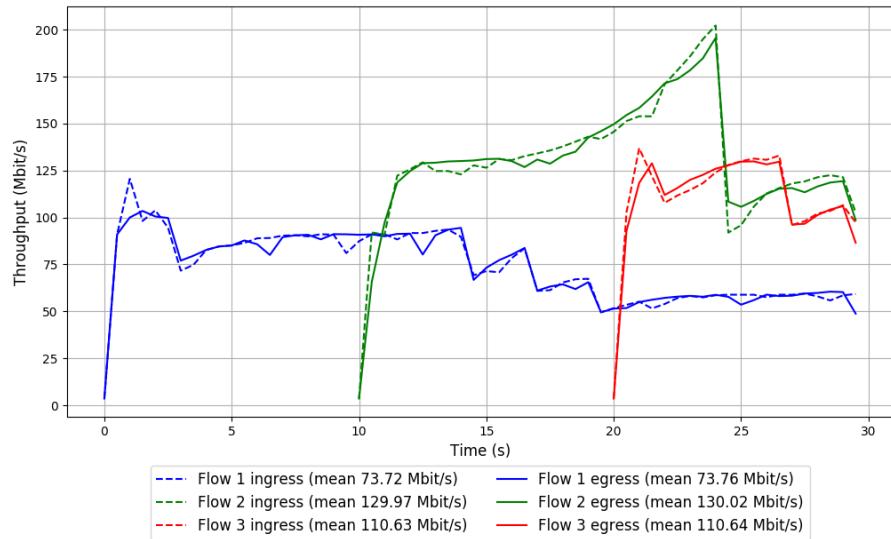
Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 22:00:08

End at: 2018-01-09 22:00:38

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 196.54 Mbit/s
95th percentile per-packet one-way delay: 52.504 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 51.825 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 130.02 Mbit/s
95th percentile per-packet one-way delay: 52.555 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 110.64 Mbit/s
95th percentile per-packet one-way delay: 53.593 ms
Loss rate: 0.98%
```

Run 9: Report of TCP Cubic — Data Link



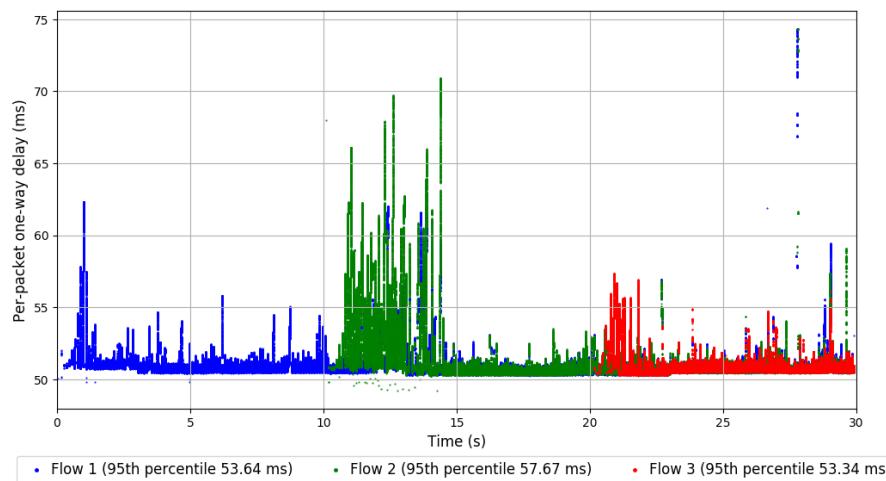
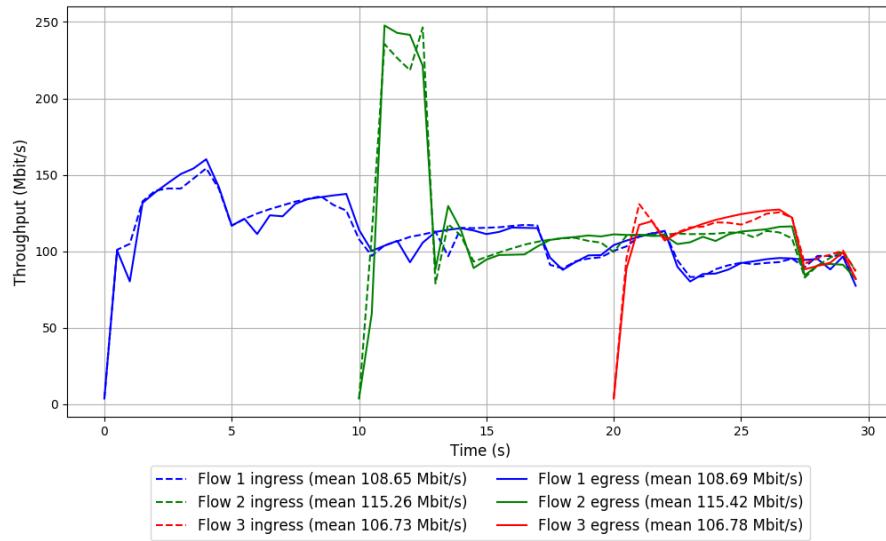
```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-01-09 22:14:18
```

```
End at: 2018-01-09 22:14:48
```

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 220.49 Mbit/s
95th percentile per-packet one-way delay: 55.235 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 108.69 Mbit/s
95th percentile per-packet one-way delay: 53.640 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 115.42 Mbit/s
95th percentile per-packet one-way delay: 57.674 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 106.78 Mbit/s
95th percentile per-packet one-way delay: 53.337 ms
Loss rate: 0.97%
```

Run 10: Report of TCP Cubic — Data Link

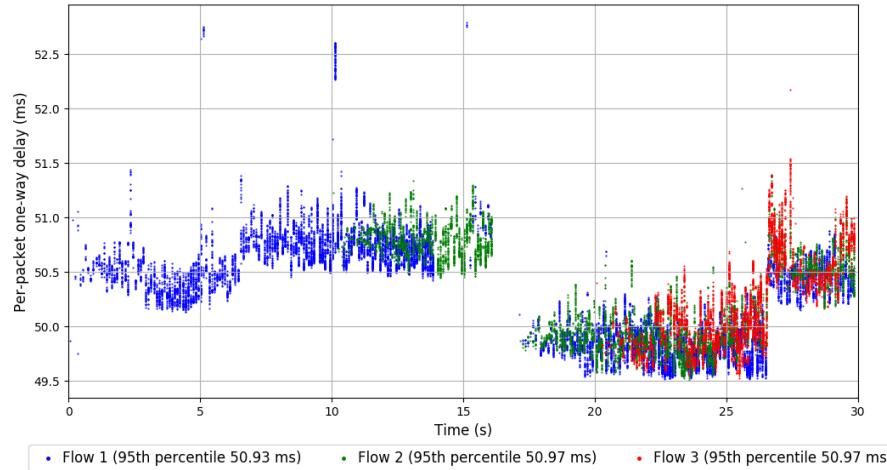
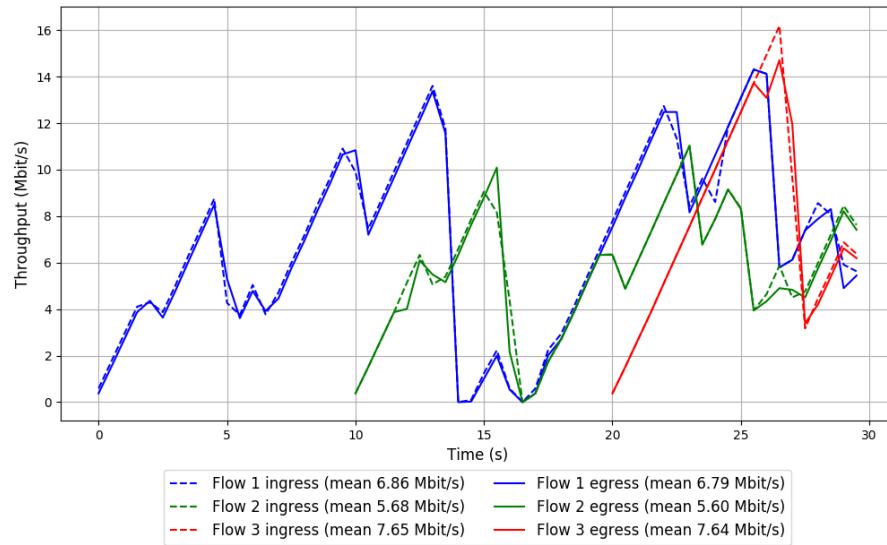


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 20:04:34
End at: 2018-01-09 20:05:04

# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.00 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 50.932 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 5.60 Mbit/s
95th percentile per-packet one-way delay: 50.972 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 50.972 ms
Loss rate: 1.15%
```

Run 1: Report of LEDBAT — Data Link



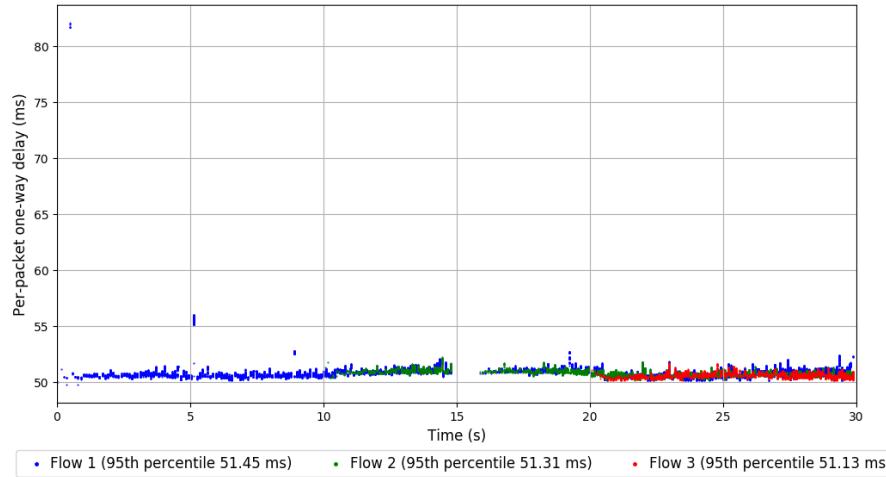
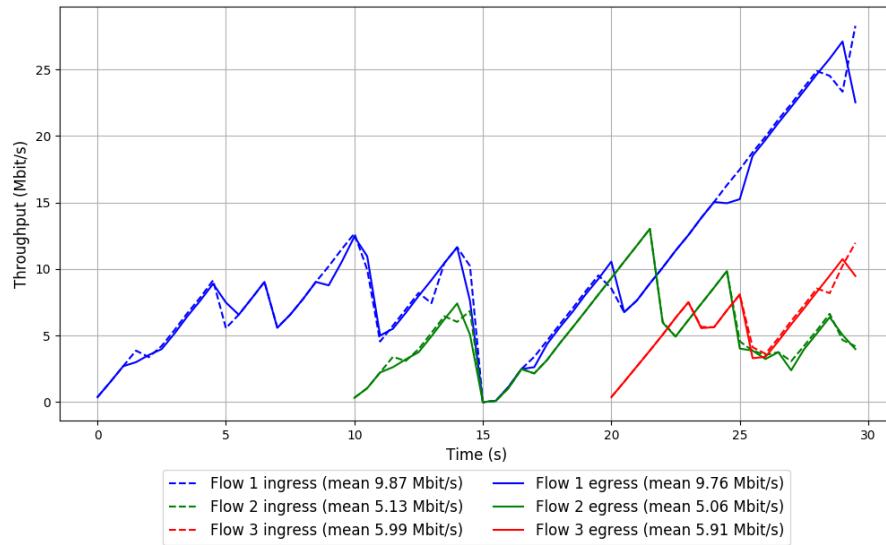
Run 2: Statistics of LEDBAT

Start at: 2018-01-09 20:18:50

End at: 2018-01-09 20:19:20

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.06 Mbit/s
95th percentile per-packet one-way delay: 51.394 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 9.76 Mbit/s
95th percentile per-packet one-way delay: 51.450 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 51.315 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 5.91 Mbit/s
95th percentile per-packet one-way delay: 51.131 ms
Loss rate: 2.39%
```

Run 2: Report of LEDBAT — Data Link



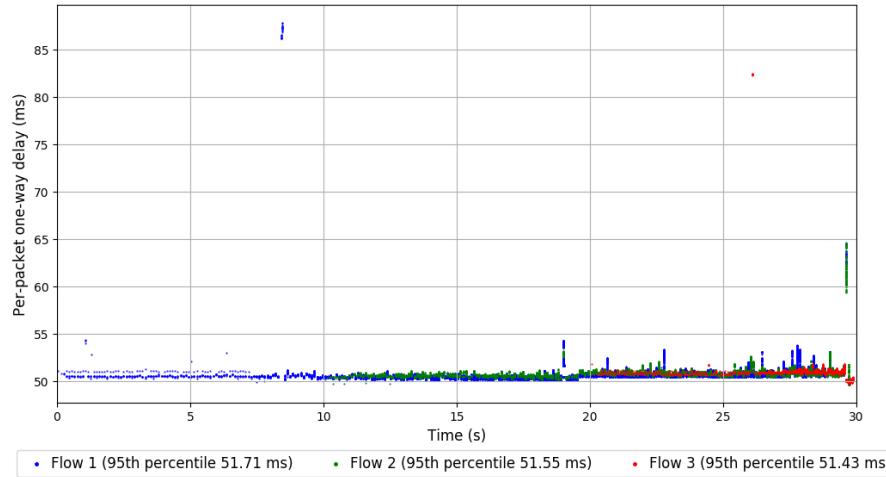
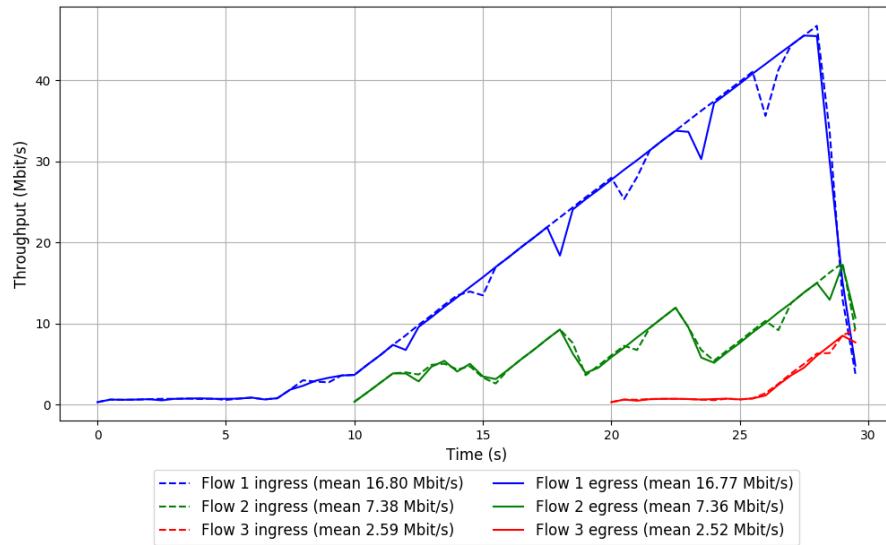
```
Run 3: Statistics of LEDBAT
```

```
Start at: 2018-01-09 20:32:21
```

```
End at: 2018-01-09 20:32:51
```

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.40 Mbit/s
95th percentile per-packet one-way delay: 51.653 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 16.77 Mbit/s
95th percentile per-packet one-way delay: 51.708 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 51.553 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 51.433 ms
Loss rate: 3.98%
```

Run 3: Report of LEDBAT — Data Link



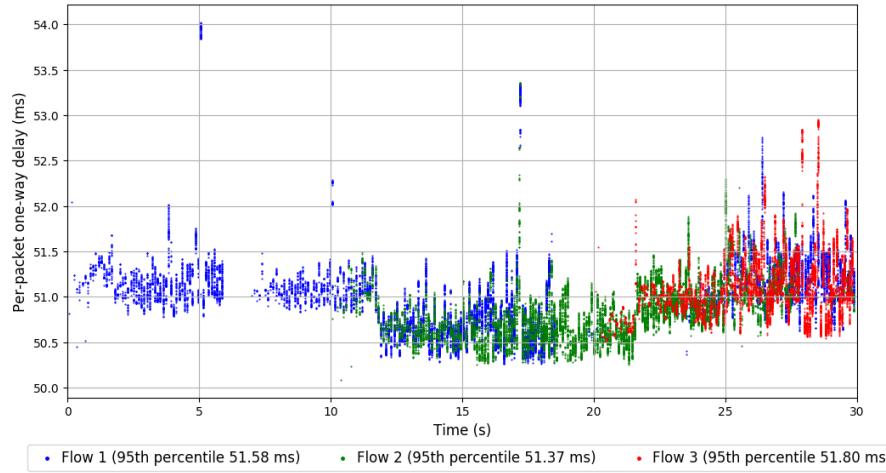
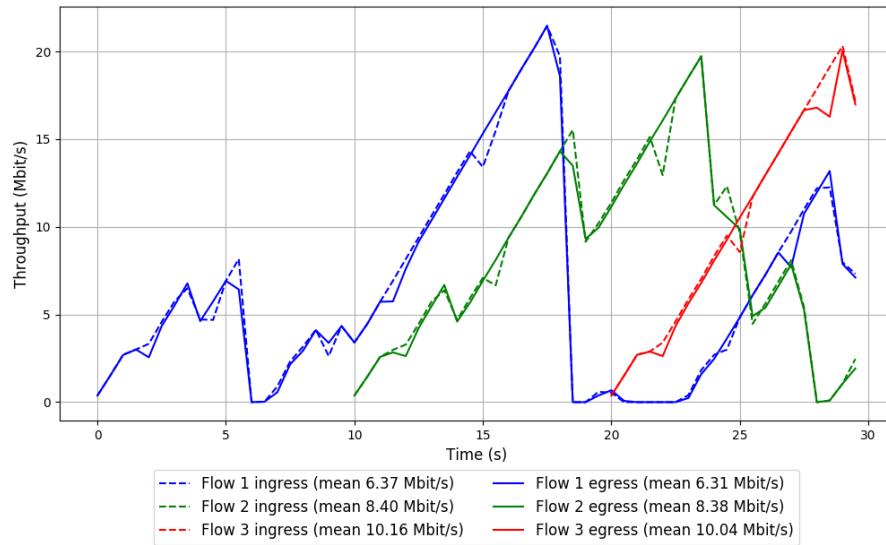
Run 4: Statistics of LEDBAT

Start at: 2018-01-09 20:46:39

End at: 2018-01-09 20:47:09

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 51.591 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 51.580 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 51.371 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 10.04 Mbit/s
95th percentile per-packet one-way delay: 51.795 ms
Loss rate: 2.18%
```

Run 4: Report of LEDBAT — Data Link



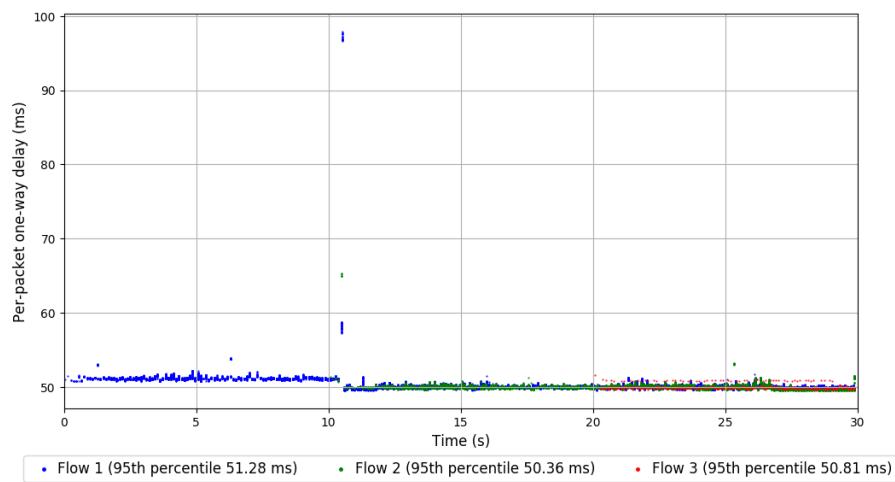
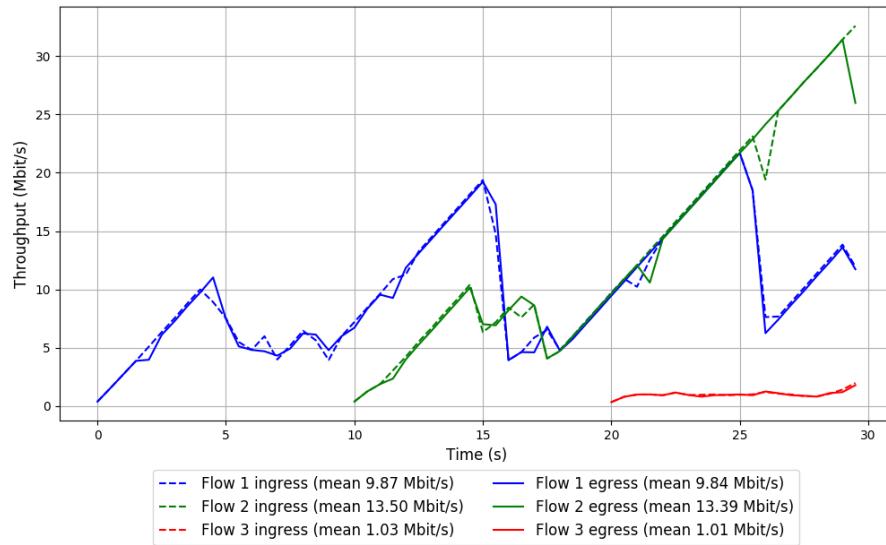
Run 5: Statistics of LEDBAT

Start at: 2018-01-09 21:00:40

End at: 2018-01-09 21:01:10

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.05 Mbit/s
95th percentile per-packet one-way delay: 51.156 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 9.84 Mbit/s
95th percentile per-packet one-way delay: 51.277 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 50.362 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 50.811 ms
Loss rate: 2.78%
```

Run 5: Report of LEDBAT — Data Link



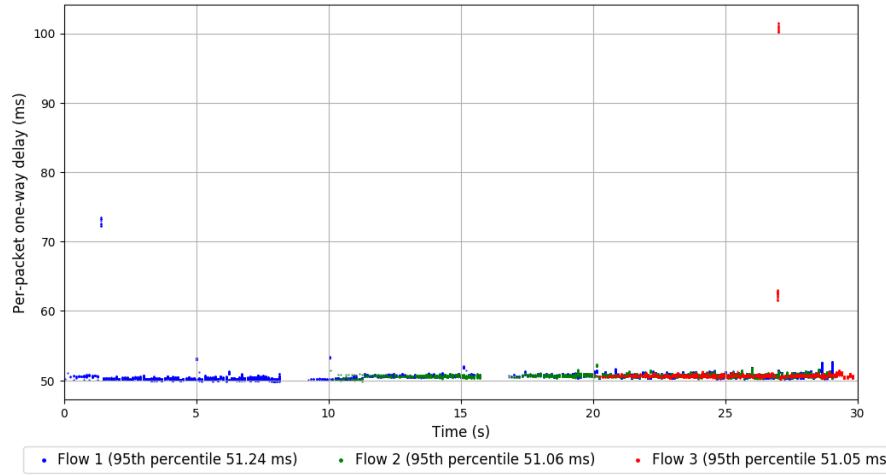
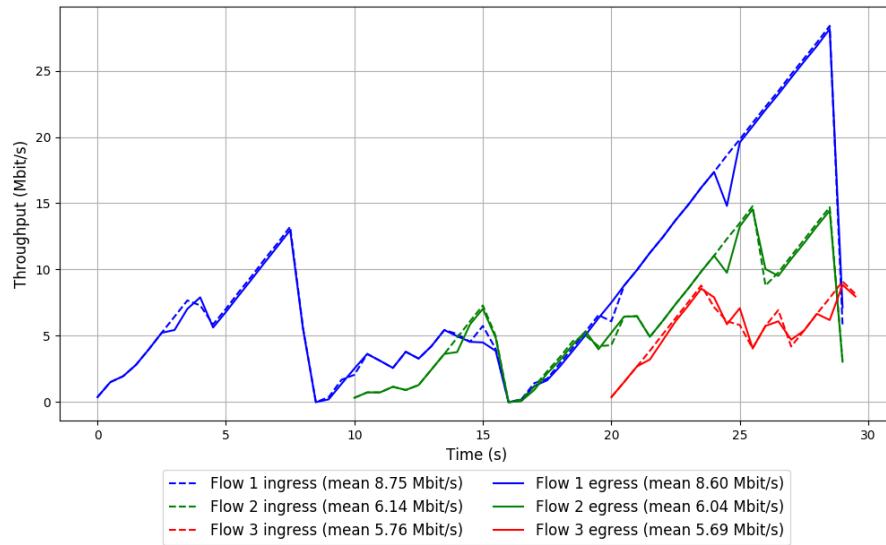
Run 6: Statistics of LEDBAT

Start at: 2018-01-09 21:14:59

End at: 2018-01-09 21:15:29

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.13 Mbit/s
95th percentile per-packet one-way delay: 51.170 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 51.239 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 6.04 Mbit/s
95th percentile per-packet one-way delay: 51.061 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 51.049 ms
Loss rate: 2.21%
```

Run 6: Report of LEDBAT — Data Link



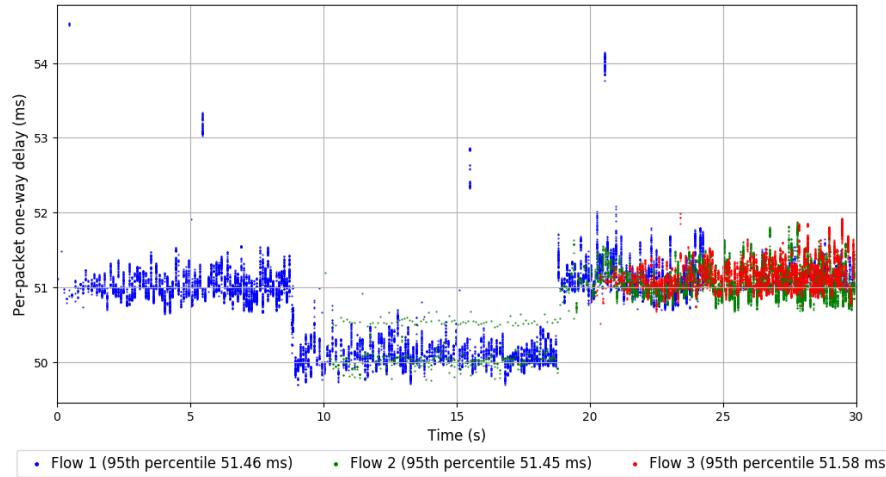
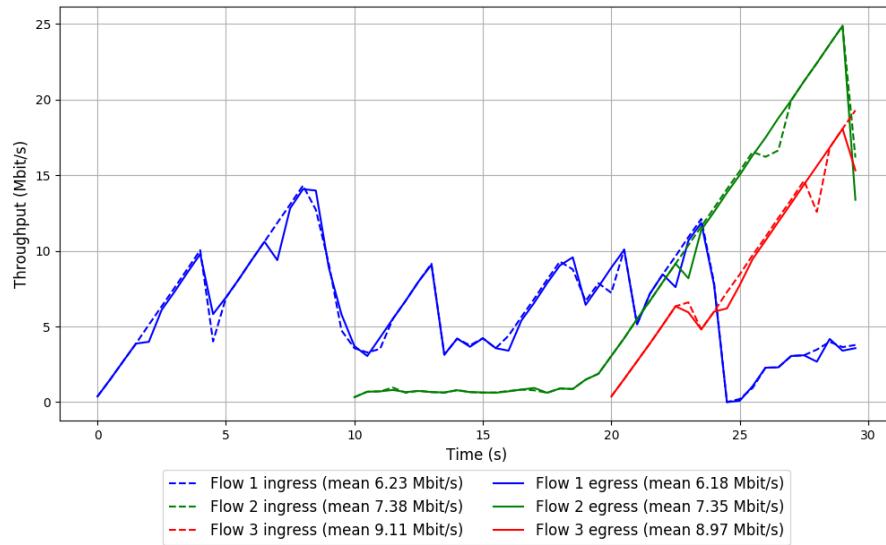
Run 7: Statistics of LEDBAT

Start at: 2018-01-09 21:29:22

End at: 2018-01-09 21:29:52

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.00 Mbit/s
95th percentile per-packet one-way delay: 51.489 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 51.464 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 51.448 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 8.97 Mbit/s
95th percentile per-packet one-way delay: 51.583 ms
Loss rate: 2.56%
```

Run 7: Report of LEDBAT — Data Link



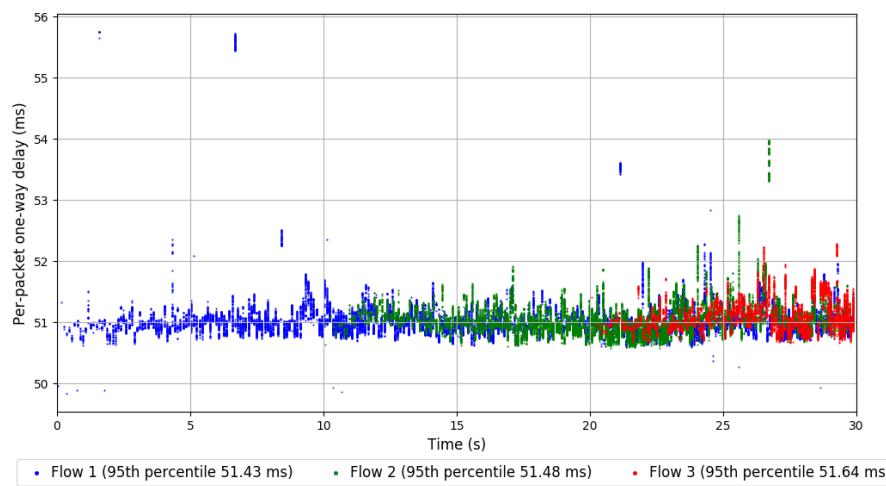
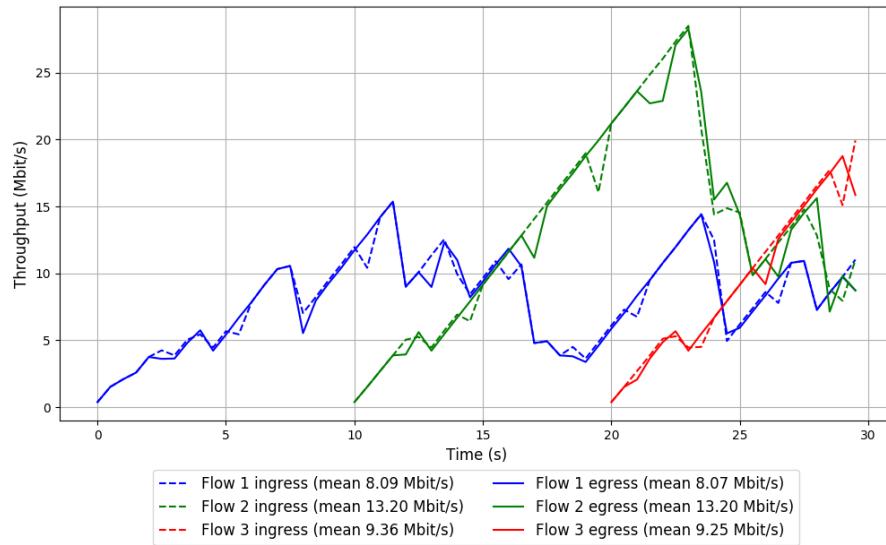
Run 8: Statistics of LEDBAT

Start at: 2018-01-09 21:43:36

End at: 2018-01-09 21:44:06

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.87 Mbit/s
95th percentile per-packet one-way delay: 51.518 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 8.07 Mbit/s
95th percentile per-packet one-way delay: 51.431 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 51.475 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 51.641 ms
Loss rate: 2.20%
```

Run 8: Report of LEDBAT — Data Link



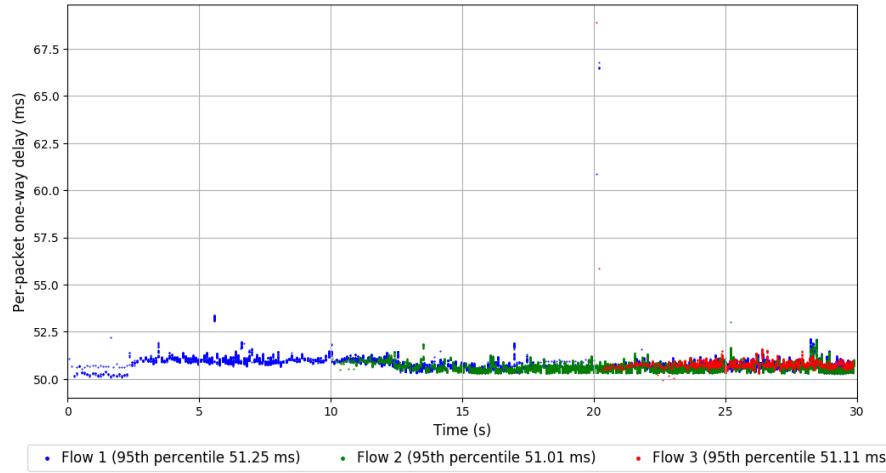
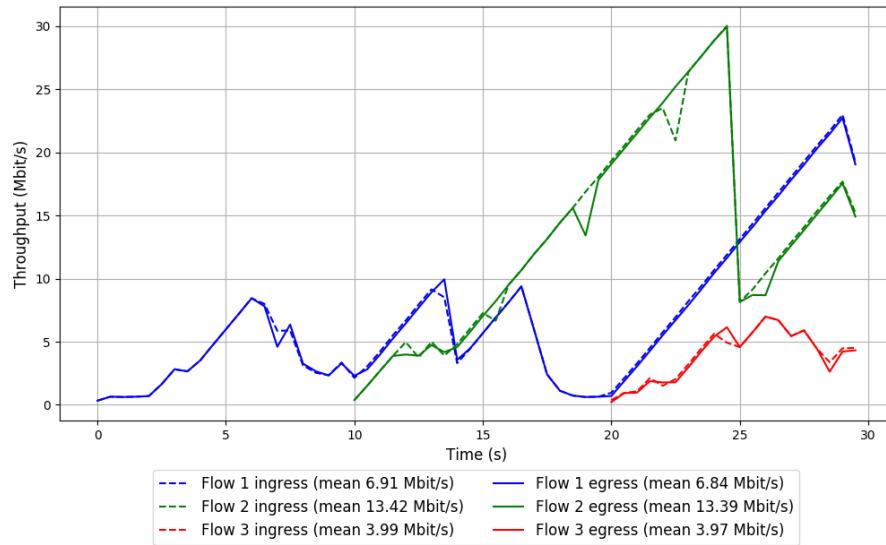
Run 9: Statistics of LEDBAT

Start at: 2018-01-09 21:56:58

End at: 2018-01-09 21:57:28

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.03 Mbit/s
95th percentile per-packet one-way delay: 51.123 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 51.254 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 51.005 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 51.109 ms
Loss rate: 1.55%
```

Run 9: Report of LEDBAT — Data Link



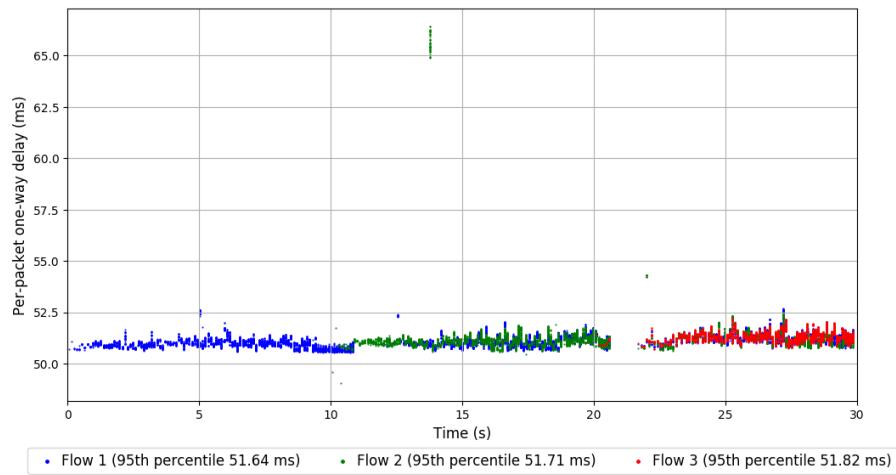
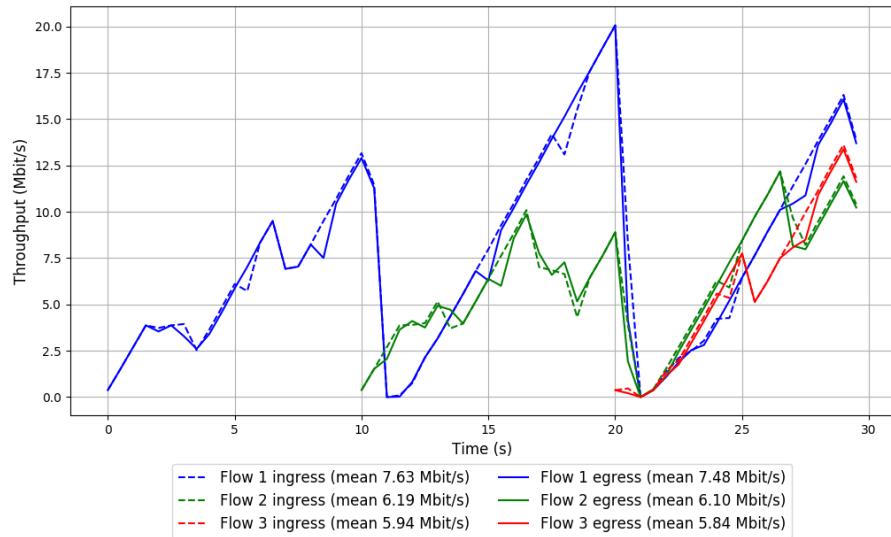
Run 10: Statistics of LEDBAT

Start at: 2018-01-09 22:11:08

End at: 2018-01-09 22:11:38

```
# Below is generated by plot.py at 2018-01-10 01:07:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.44 Mbit/s
95th percentile per-packet one-way delay: 51.694 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 7.48 Mbit/s
95th percentile per-packet one-way delay: 51.639 ms
Loss rate: 2.38%
-- Flow 2:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 51.708 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 51.818 ms
Loss rate: 2.80%
```

Run 10: Report of LEDBAT — Data Link

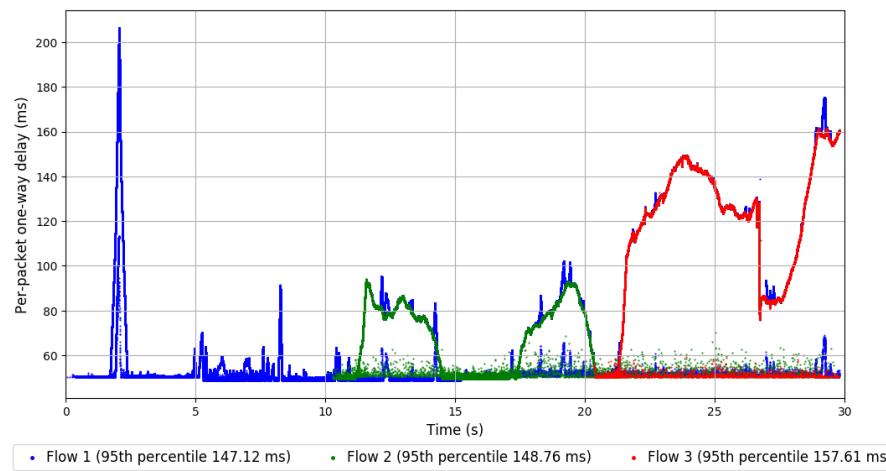
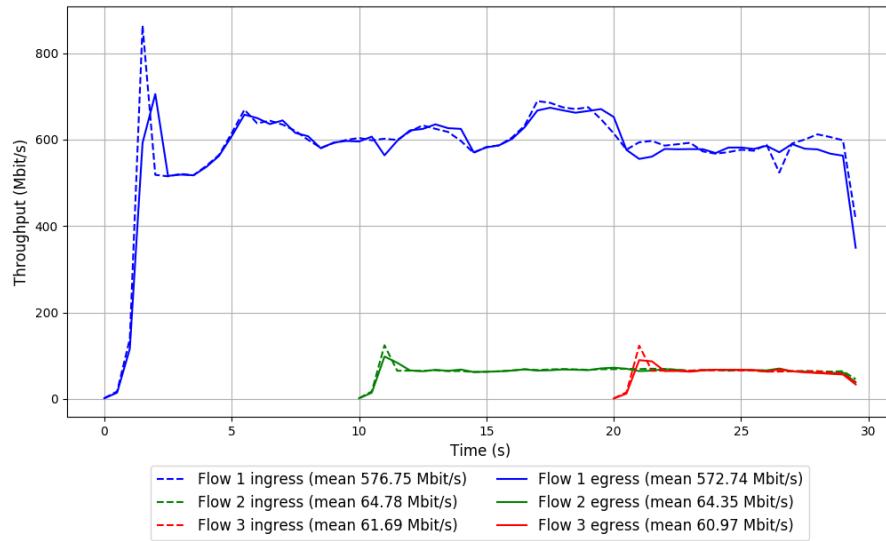


```
Run 1: Statistics of PCC

Start at: 2018-01-09 20:16:43
End at: 2018-01-09 20:17:13

# Below is generated by plot.py at 2018-01-10 01:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 635.27 Mbit/s
95th percentile per-packet one-way delay: 147.992 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 572.74 Mbit/s
95th percentile per-packet one-way delay: 147.119 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 148.758 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 157.610 ms
Loss rate: 2.22%
```

Run 1: Report of PCC — Data Link



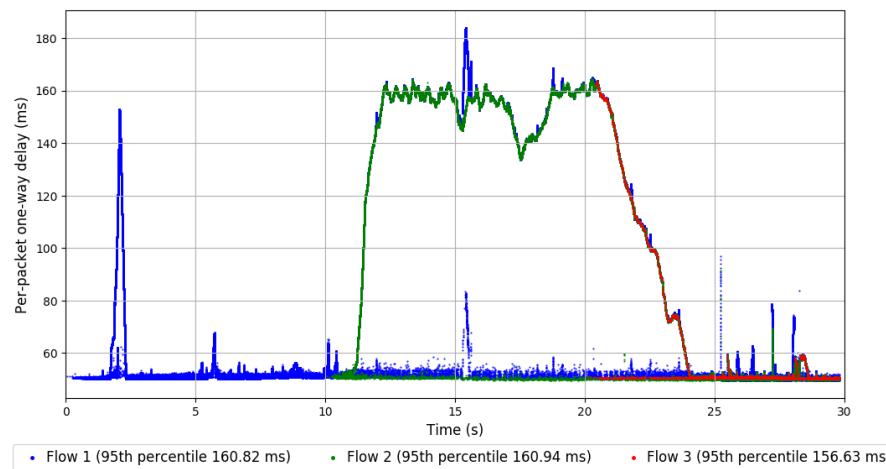
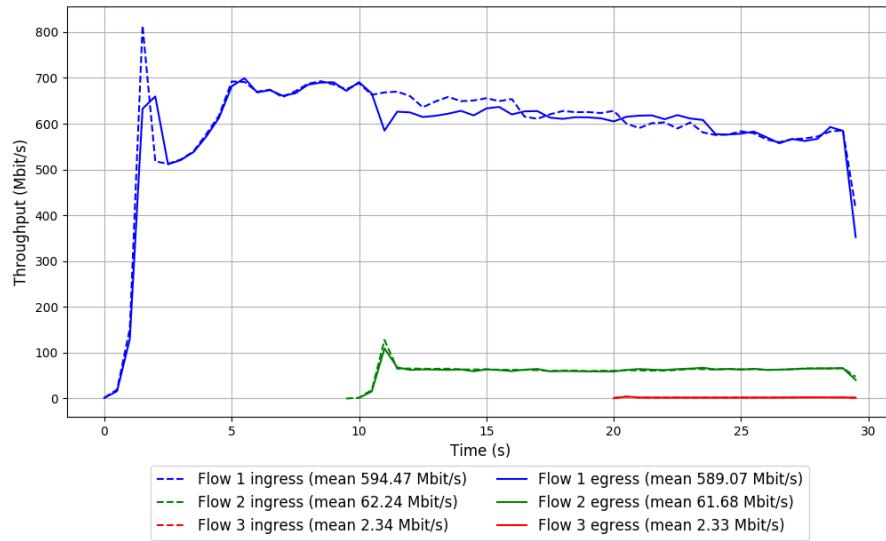
Run 2: Statistics of PCC

Start at: 2018-01-09 20:30:33

End at: 2018-01-09 20:31:03

```
# Below is generated by plot.py at 2018-01-10 01:15:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 630.78 Mbit/s
95th percentile per-packet one-way delay: 160.832 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 589.07 Mbit/s
95th percentile per-packet one-way delay: 160.823 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 61.68 Mbit/s
95th percentile per-packet one-way delay: 160.941 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 156.628 ms
Loss rate: 1.09%
```

Run 2: Report of PCC — Data Link



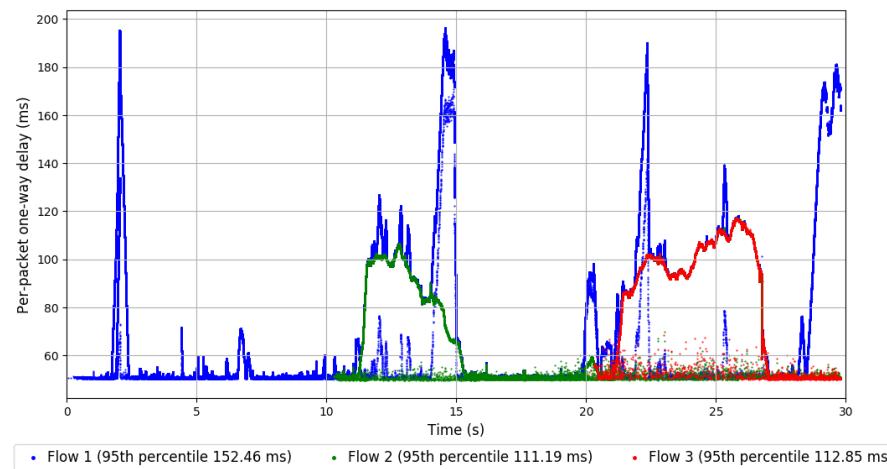
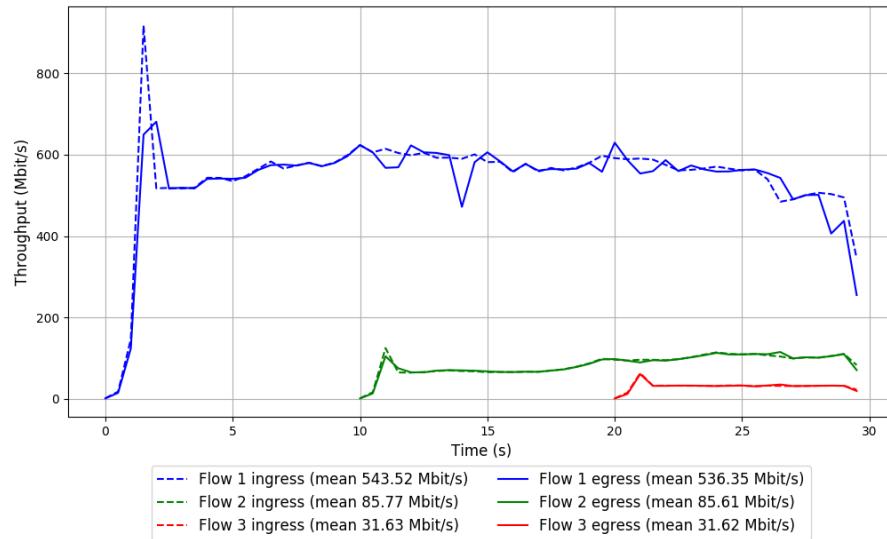
Run 3: Statistics of PCC

Start at: 2018-01-09 20:44:32

End at: 2018-01-09 20:45:02

```
# Below is generated by plot.py at 2018-01-10 01:15:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 603.48 Mbit/s
95th percentile per-packet one-way delay: 143.311 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 536.35 Mbit/s
95th percentile per-packet one-way delay: 152.459 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 111.193 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 112.848 ms
Loss rate: 1.07%
```

Run 3: Report of PCC — Data Link



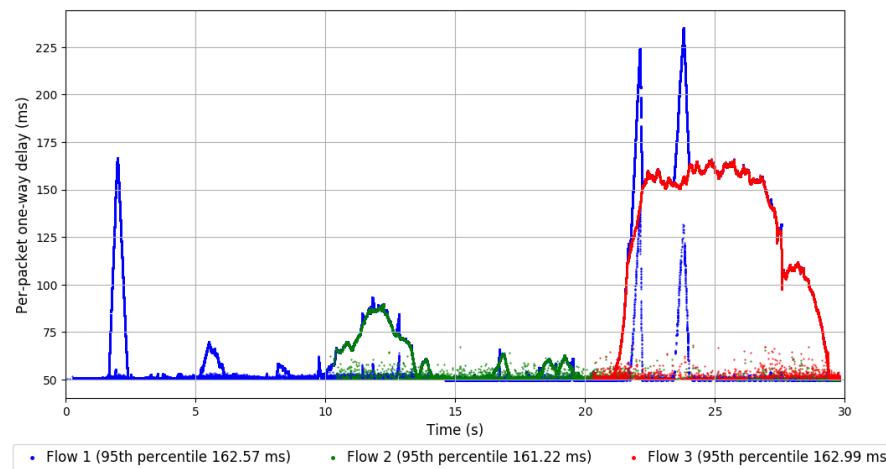
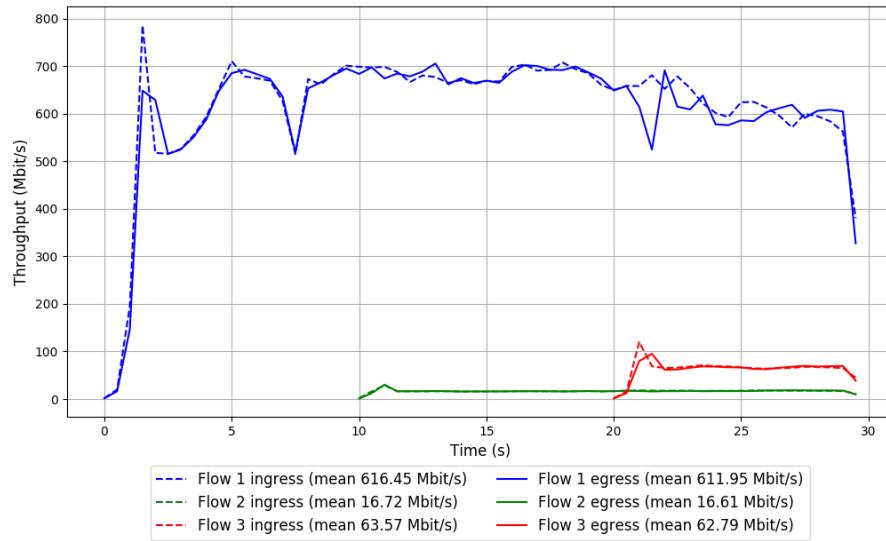
Run 4: Statistics of PCC

Start at: 2018-01-09 20:58:34

End at: 2018-01-09 20:59:04

```
# Below is generated by plot.py at 2018-01-10 01:16:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 643.46 Mbit/s
95th percentile per-packet one-way delay: 162.595 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 611.95 Mbit/s
95th percentile per-packet one-way delay: 162.574 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 16.61 Mbit/s
95th percentile per-packet one-way delay: 161.218 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 162.986 ms
Loss rate: 2.27%
```

Run 4: Report of PCC — Data Link



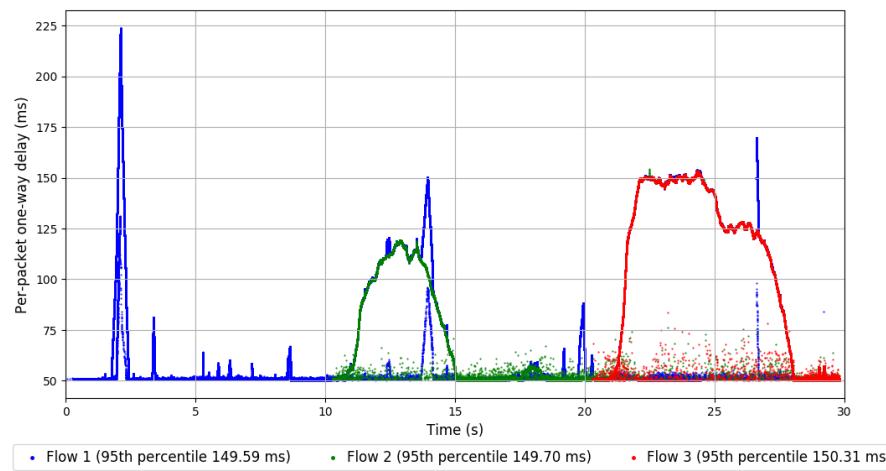
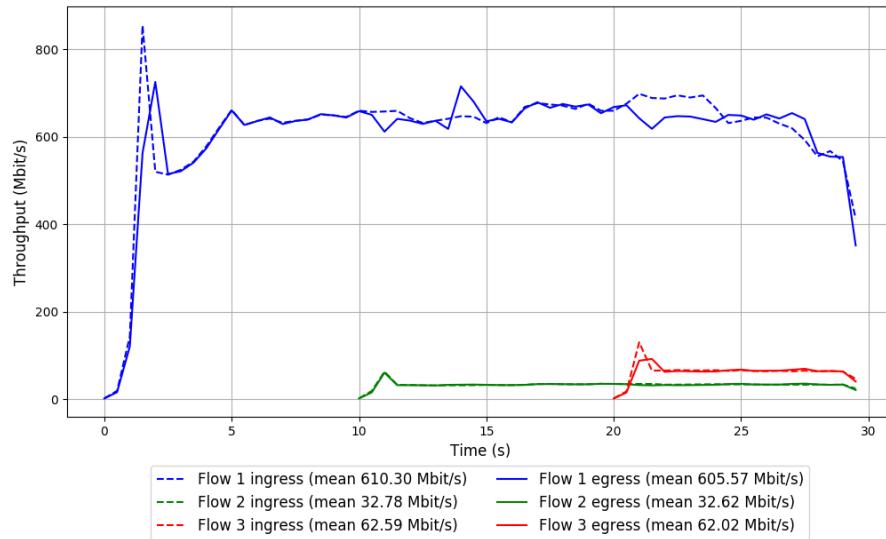
Run 5: Statistics of PCC

Start at: 2018-01-09 21:12:52

End at: 2018-01-09 21:13:22

```
# Below is generated by plot.py at 2018-01-10 01:16:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 647.51 Mbit/s
95th percentile per-packet one-way delay: 149.645 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 605.57 Mbit/s
95th percentile per-packet one-way delay: 149.586 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 149.696 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 62.02 Mbit/s
95th percentile per-packet one-way delay: 150.313 ms
Loss rate: 1.98%
```

Run 5: Report of PCC — Data Link



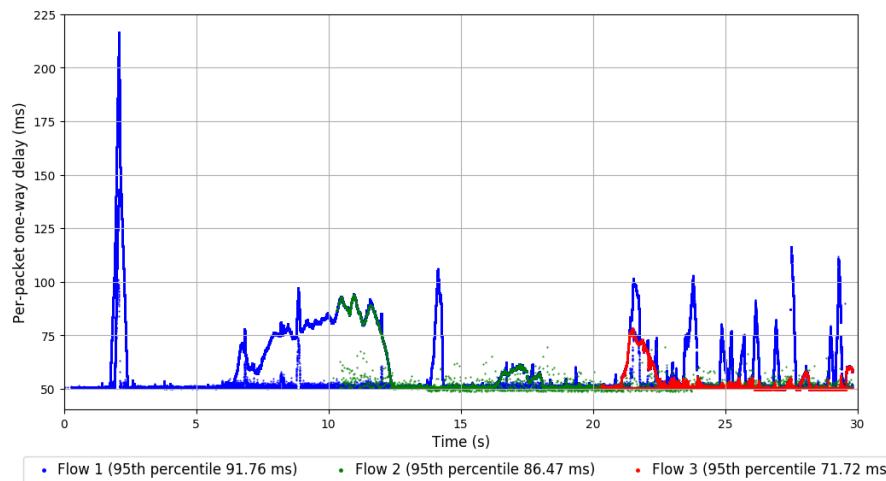
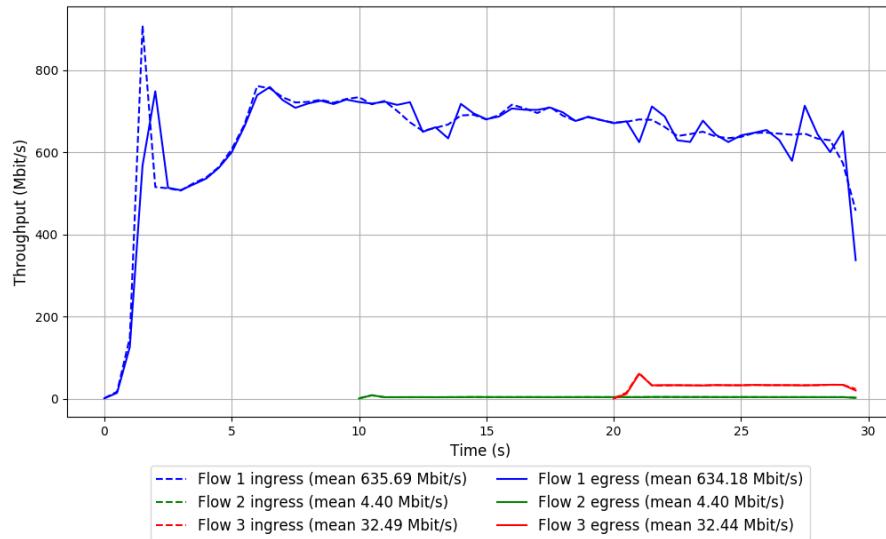
Run 6: Statistics of PCC

Start at: 2018-01-09 21:27:15

End at: 2018-01-09 21:27:45

```
# Below is generated by plot.py at 2018-01-10 01:16:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 647.66 Mbit/s
95th percentile per-packet one-way delay: 91.597 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 634.18 Mbit/s
95th percentile per-packet one-way delay: 91.761 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 86.470 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 71.725 ms
Loss rate: 1.16%
```

Run 6: Report of PCC — Data Link



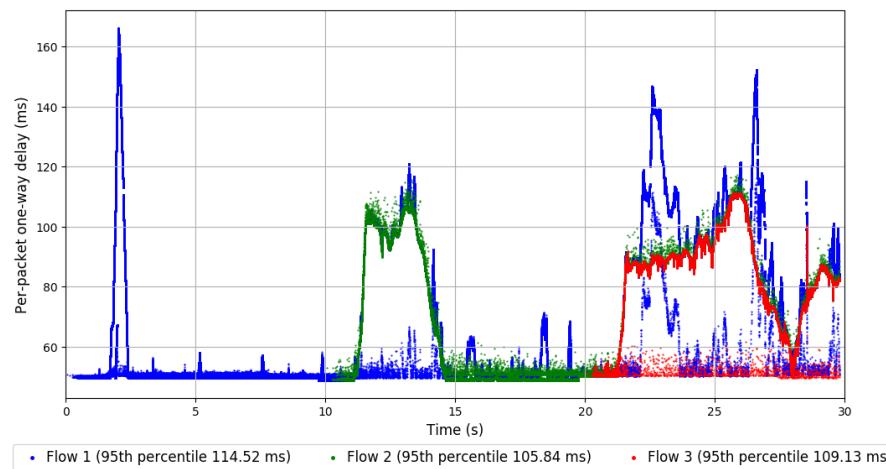
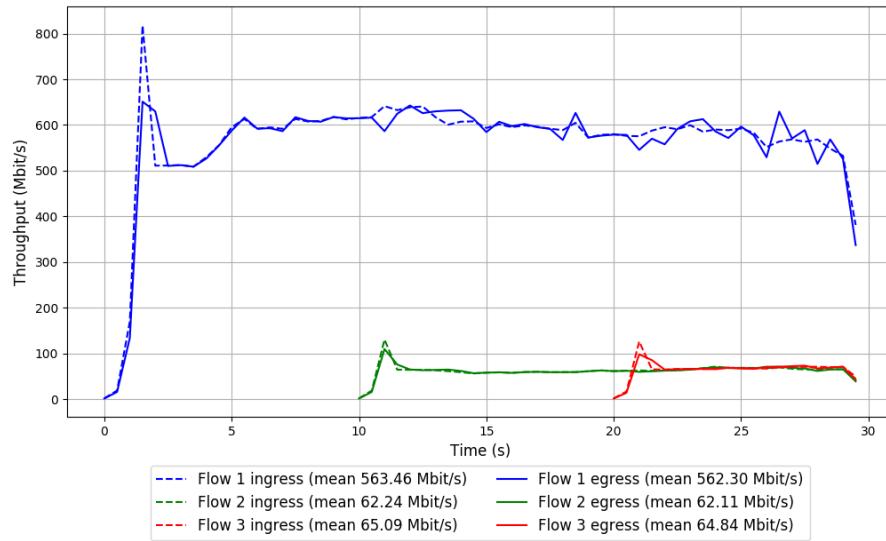
Run 7: Statistics of PCC

Start at: 2018-01-09 21:41:31

End at: 2018-01-09 21:42:01

```
# Below is generated by plot.py at 2018-01-10 01:17:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 624.66 Mbit/s
95th percentile per-packet one-way delay: 112.989 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 562.30 Mbit/s
95th percentile per-packet one-way delay: 114.522 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 62.11 Mbit/s
95th percentile per-packet one-way delay: 105.839 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 64.84 Mbit/s
95th percentile per-packet one-way delay: 109.127 ms
Loss rate: 1.41%
```

Run 7: Report of PCC — Data Link



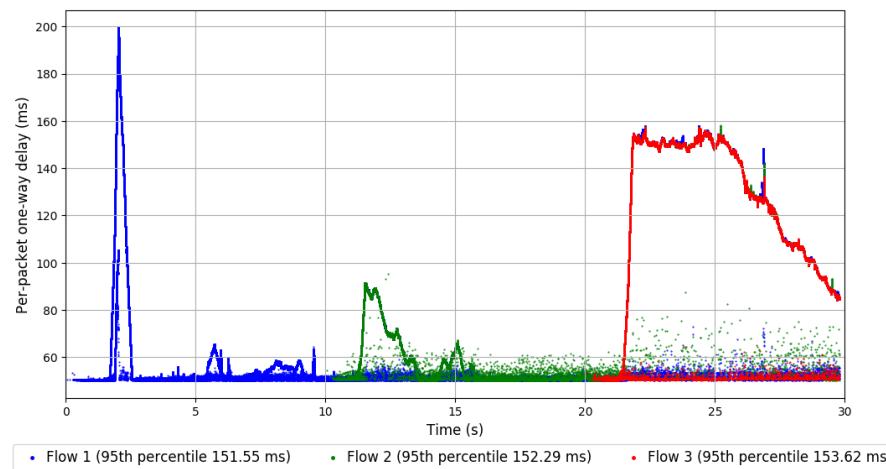
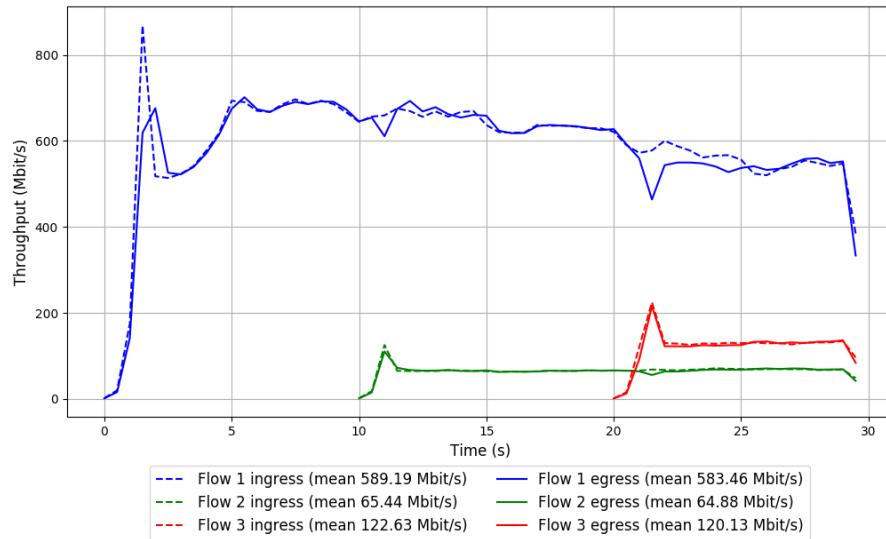
Run 8: Statistics of PCC

Start at: 2018-01-09 21:55:09

End at: 2018-01-09 21:55:39

```
# Below is generated by plot.py at 2018-01-10 01:17:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 665.68 Mbit/s
95th percentile per-packet one-way delay: 151.875 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 583.46 Mbit/s
95th percentile per-packet one-way delay: 151.554 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 64.88 Mbit/s
95th percentile per-packet one-way delay: 152.289 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 120.13 Mbit/s
95th percentile per-packet one-way delay: 153.616 ms
Loss rate: 3.08%
```

Run 8: Report of PCC — Data Link



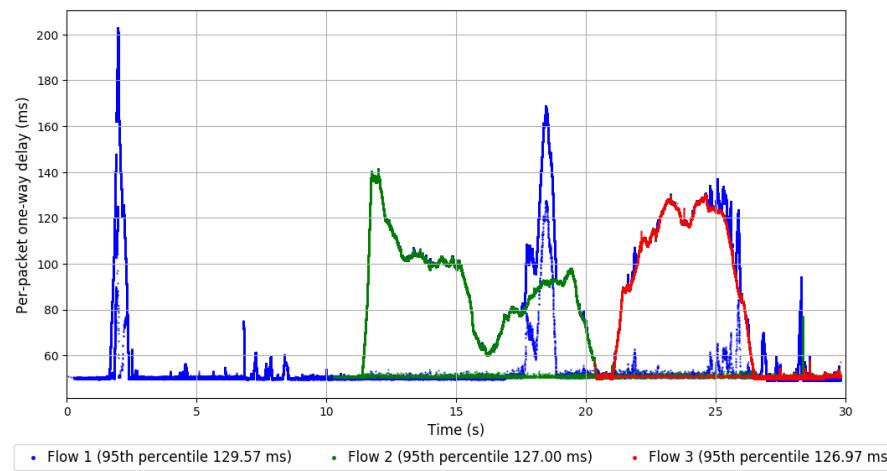
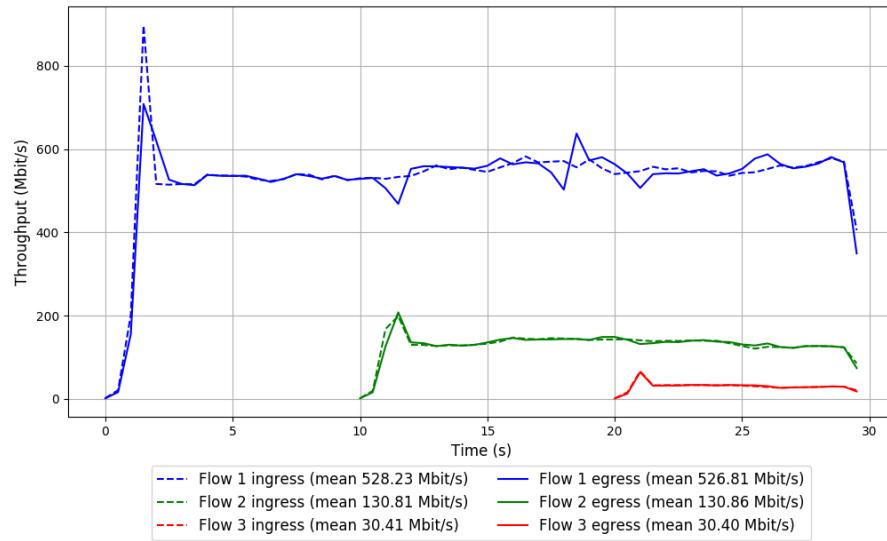
Run 9: Statistics of PCC

Start at: 2018-01-09 22:09:02

End at: 2018-01-09 22:09:32

```
# Below is generated by plot.py at 2018-01-10 01:24:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 623.45 Mbit/s
95th percentile per-packet one-way delay: 128.738 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 526.81 Mbit/s
95th percentile per-packet one-way delay: 129.571 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 130.86 Mbit/s
95th percentile per-packet one-way delay: 127.000 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 126.975 ms
Loss rate: 1.00%
```

Run 9: Report of PCC — Data Link



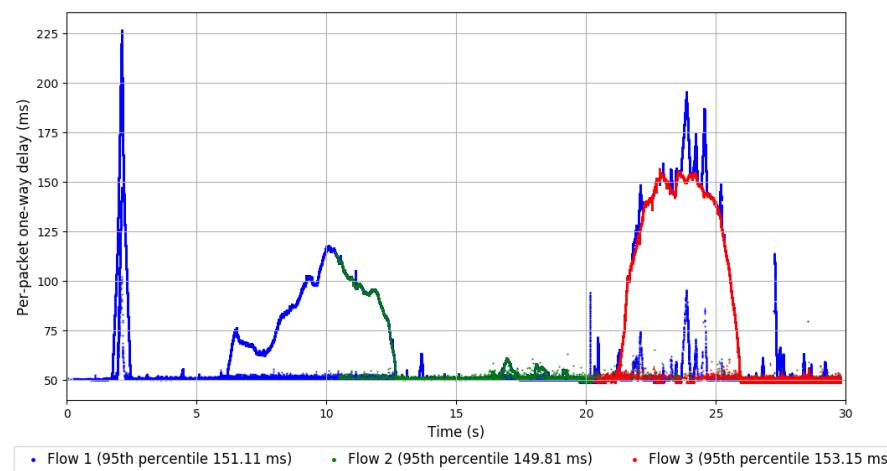
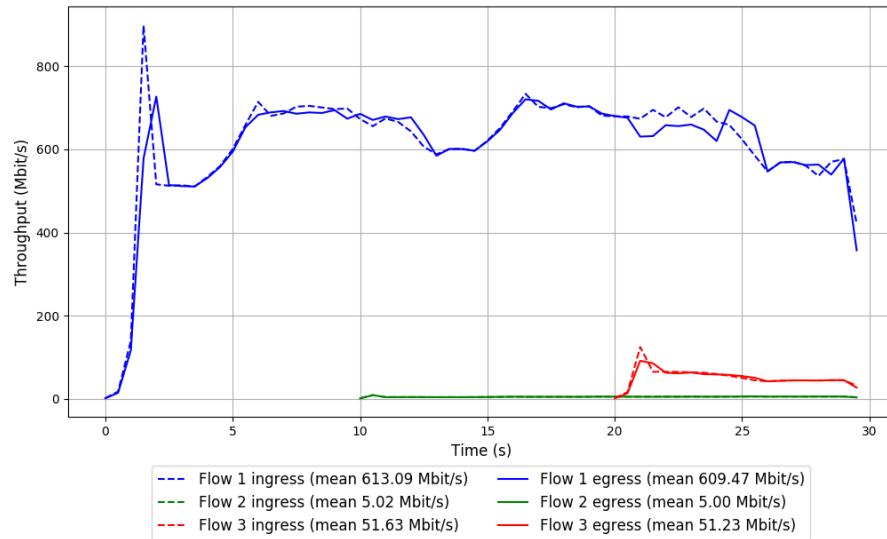
Run 10: Statistics of PCC

Start at: 2018-01-09 22:23:21

End at: 2018-01-09 22:23:51

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 629.49 Mbit/s
95th percentile per-packet one-way delay: 151.246 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 609.47 Mbit/s
95th percentile per-packet one-way delay: 151.106 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 149.813 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 51.23 Mbit/s
95th percentile per-packet one-way delay: 153.153 ms
Loss rate: 1.82%
```

Run 10: Report of PCC — Data Link

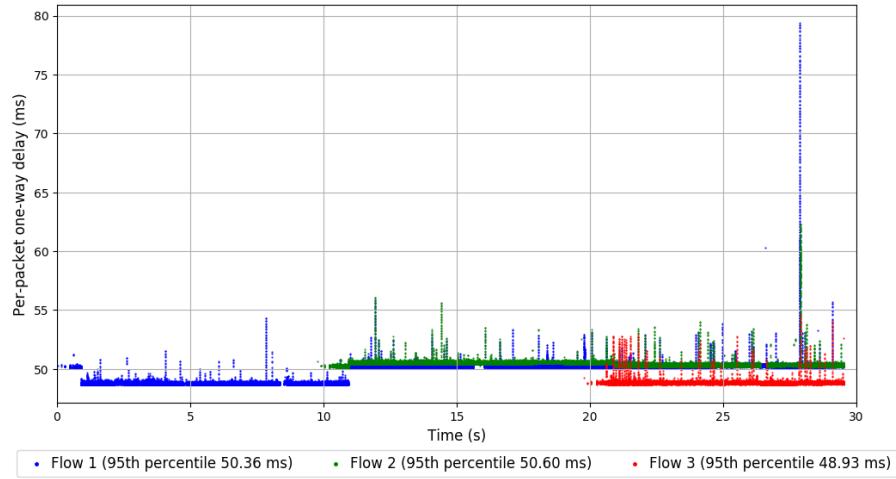
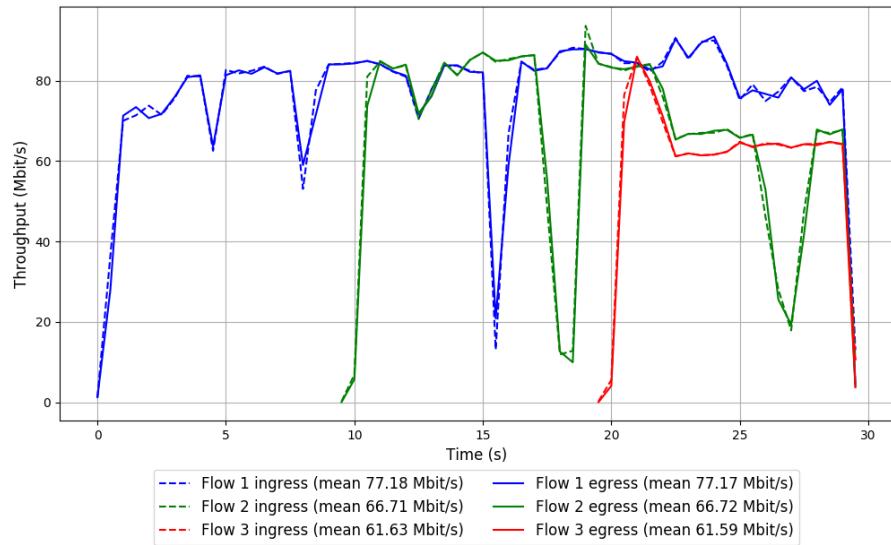


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 20:06:57
End at: 2018-01-09 20:07:27

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.19 Mbit/s
95th percentile per-packet one-way delay: 50.542 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 77.17 Mbit/s
95th percentile per-packet one-way delay: 50.356 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 66.72 Mbit/s
95th percentile per-packet one-way delay: 50.601 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 48.928 ms
Loss rate: 1.05%
```

Run 1: Report of QUIC Cubic — Data Link



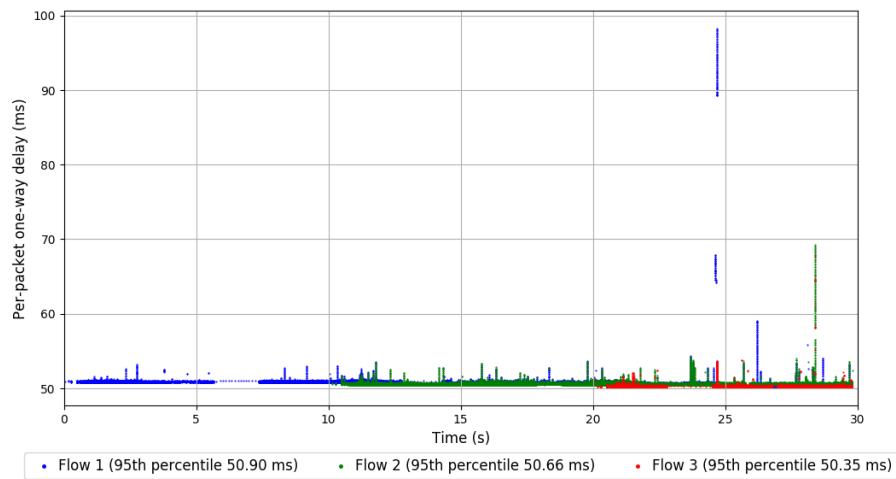
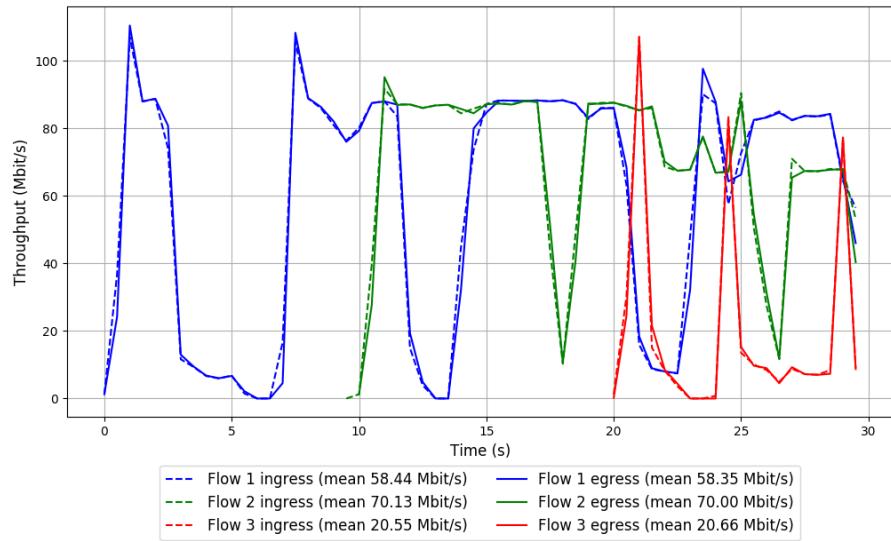
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 20:21:14

End at: 2018-01-09 20:21:44

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 111.62 Mbit/s
95th percentile per-packet one-way delay: 50.866 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 58.35 Mbit/s
95th percentile per-packet one-way delay: 50.898 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 70.00 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 50.348 ms
Loss rate: 0.51%
```

Run 2: Report of QUIC Cubic — Data Link

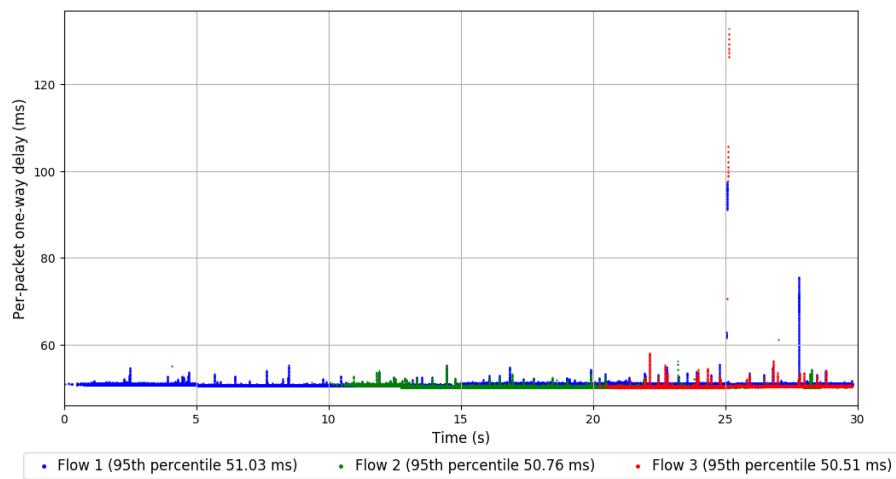
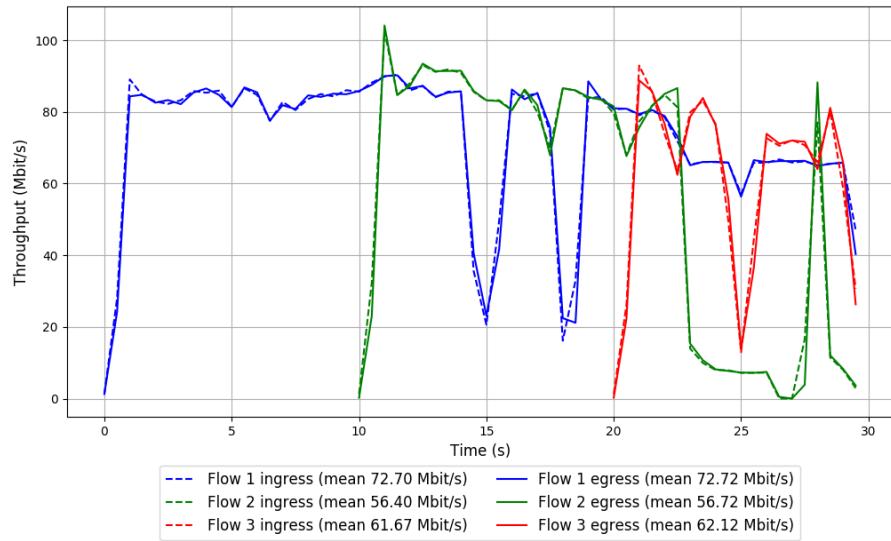


```
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 20:34:46
End at: 2018-01-09 20:35:16

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 130.56 Mbit/s
95th percentile per-packet one-way delay: 50.996 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 72.72 Mbit/s
95th percentile per-packet one-way delay: 51.029 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.12 Mbit/s
95th percentile per-packet one-way delay: 50.507 ms
Loss rate: 0.36%
```

Run 3: Report of QUIC Cubic — Data Link



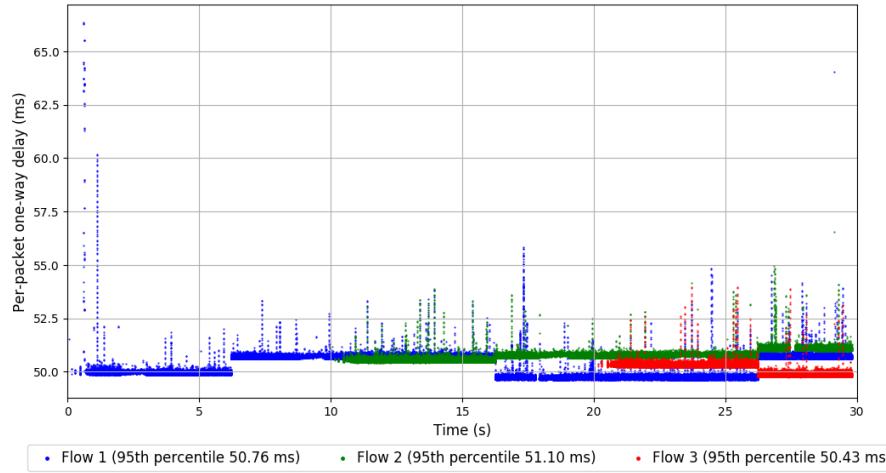
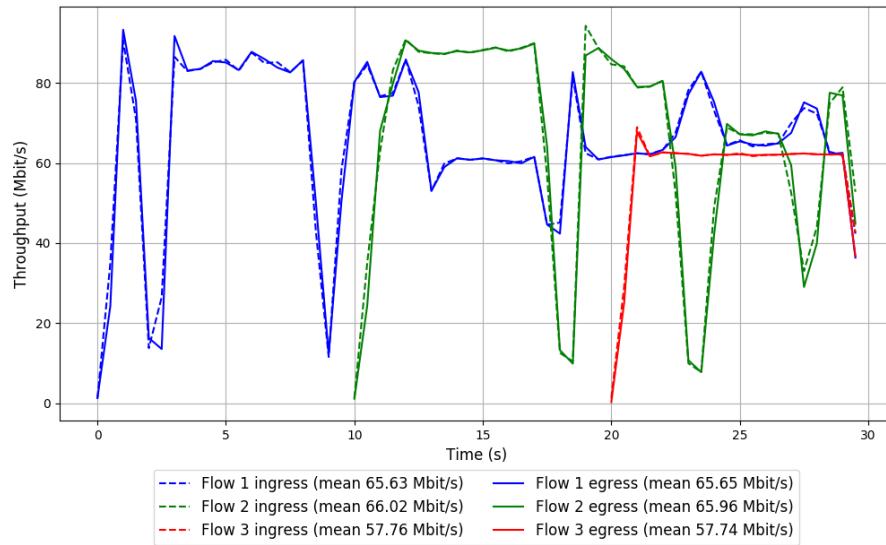
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 20:49:02

End at: 2018-01-09 20:49:32

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.33 Mbit/s
95th percentile per-packet one-way delay: 51.025 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 65.65 Mbit/s
95th percentile per-packet one-way delay: 50.764 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 65.96 Mbit/s
95th percentile per-packet one-way delay: 51.102 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 57.74 Mbit/s
95th percentile per-packet one-way delay: 50.434 ms
Loss rate: 1.06%
```

Run 4: Report of QUIC Cubic — Data Link

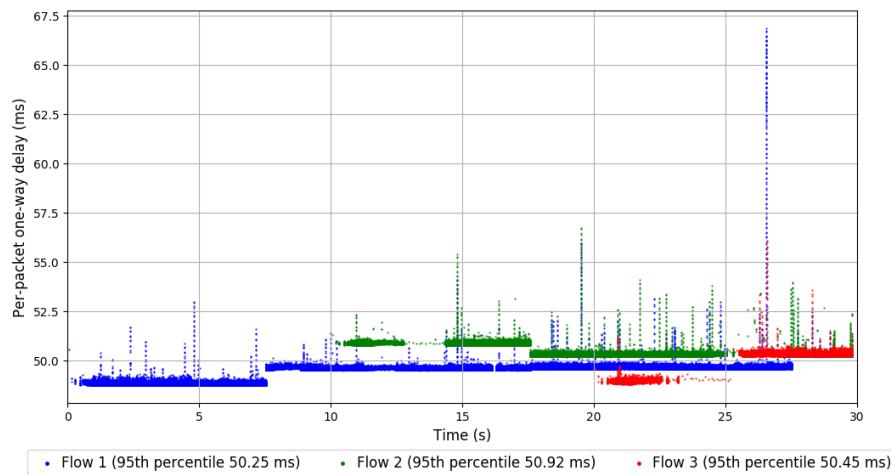
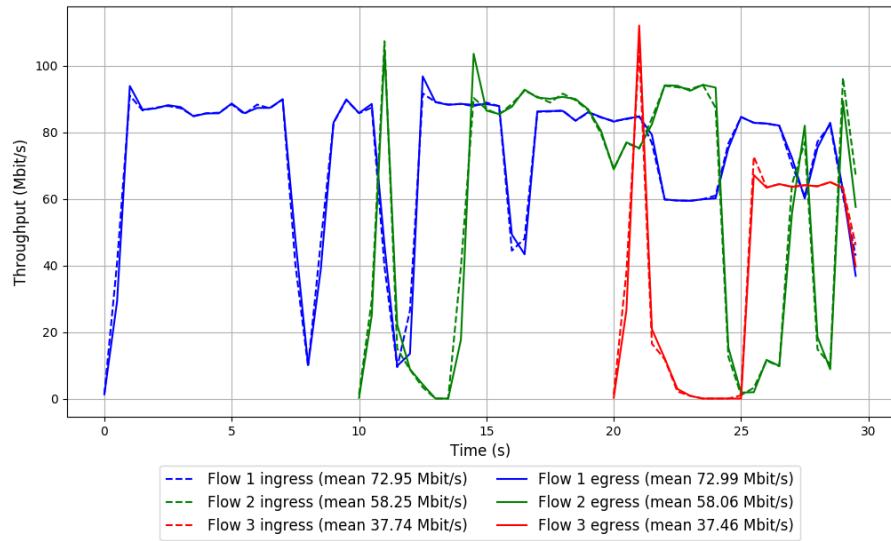


```
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 21:03:03
End at: 2018-01-09 21:03:33

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.77 Mbit/s
95th percentile per-packet one-way delay: 50.860 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 72.99 Mbit/s
95th percentile per-packet one-way delay: 50.254 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 58.06 Mbit/s
95th percentile per-packet one-way delay: 50.923 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 37.46 Mbit/s
95th percentile per-packet one-way delay: 50.448 ms
Loss rate: 1.75%
```

Run 5: Report of QUIC Cubic — Data Link



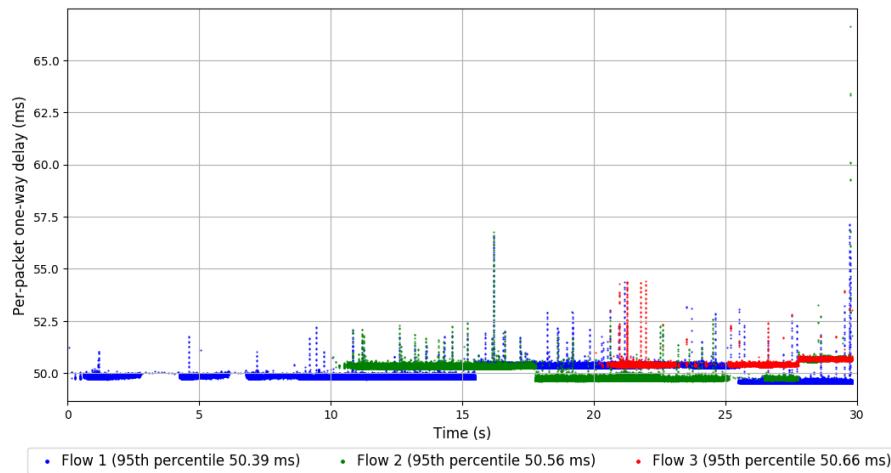
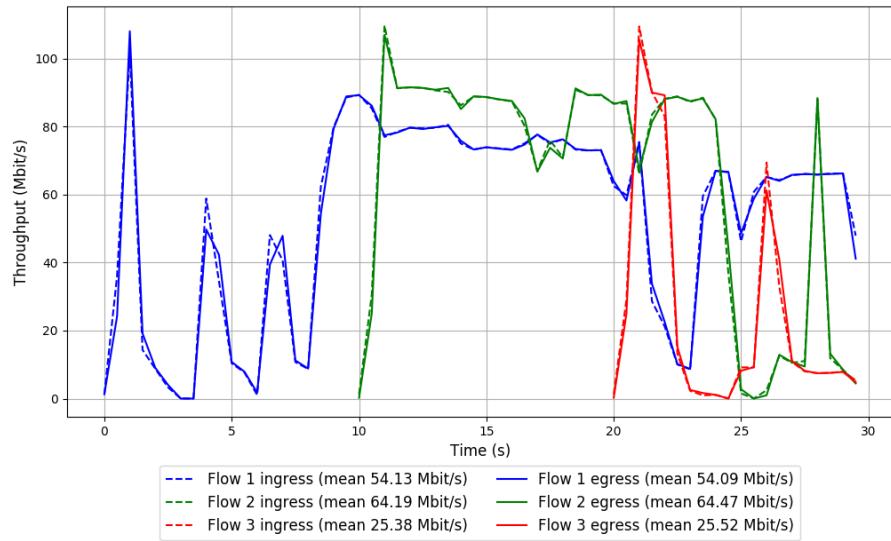
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 21:17:23

End at: 2018-01-09 21:17:53

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.17 Mbit/s
95th percentile per-packet one-way delay: 50.438 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 54.09 Mbit/s
95th percentile per-packet one-way delay: 50.386 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 64.47 Mbit/s
95th percentile per-packet one-way delay: 50.559 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 25.52 Mbit/s
95th percentile per-packet one-way delay: 50.660 ms
Loss rate: 0.28%
```

Run 6: Report of QUIC Cubic — Data Link

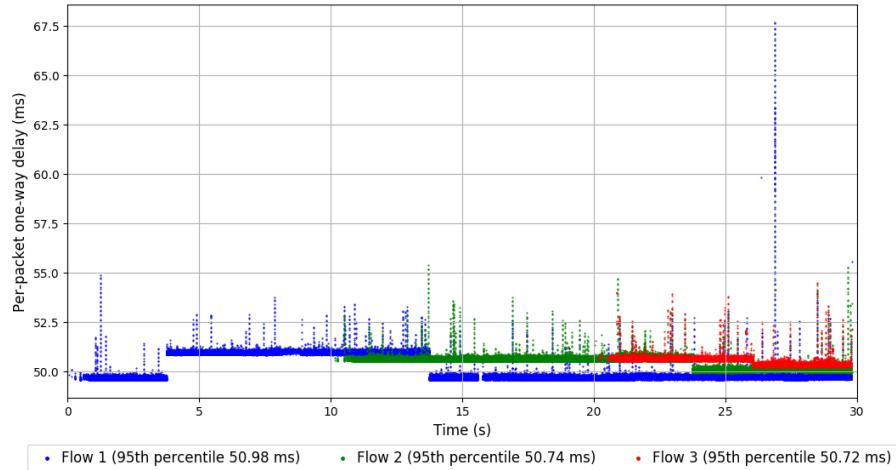
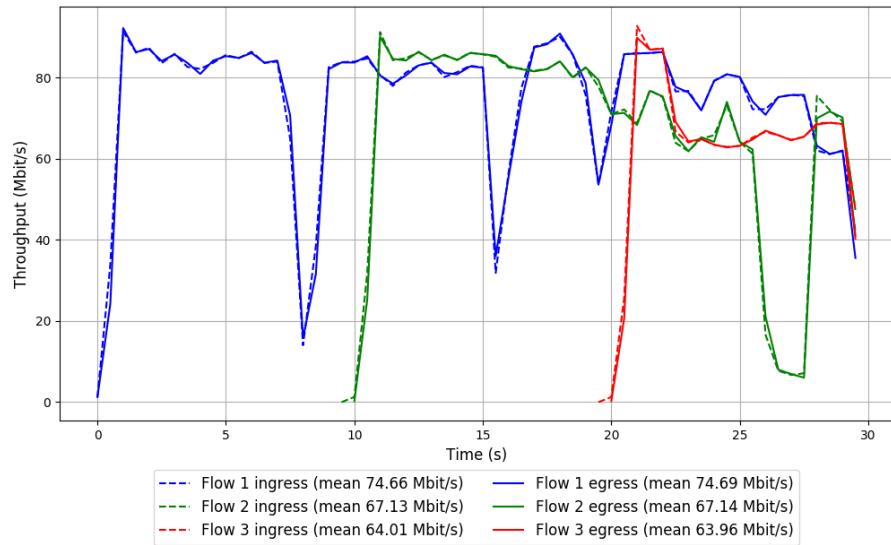


```
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 21:31:45
End at: 2018-01-09 21:32:15

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.23 Mbit/s
95th percentile per-packet one-way delay: 50.945 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 74.69 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 67.14 Mbit/s
95th percentile per-packet one-way delay: 50.745 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 63.96 Mbit/s
95th percentile per-packet one-way delay: 50.715 ms
Loss rate: 1.13%
```

Run 7: Report of QUIC Cubic — Data Link



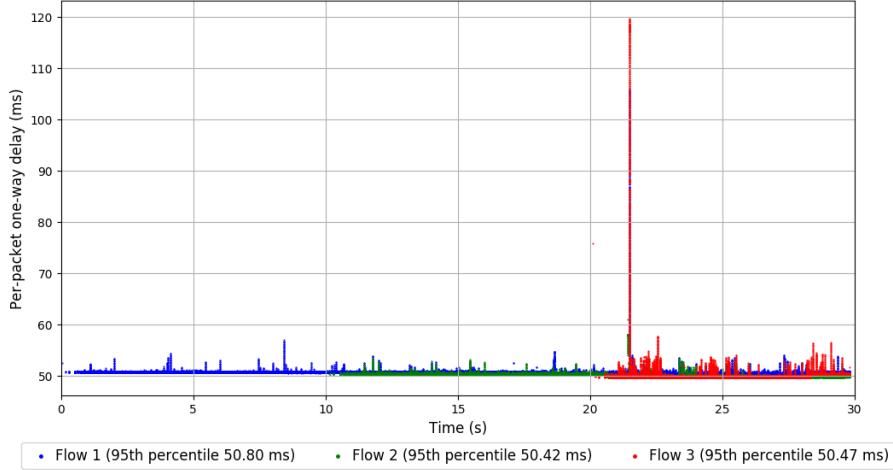
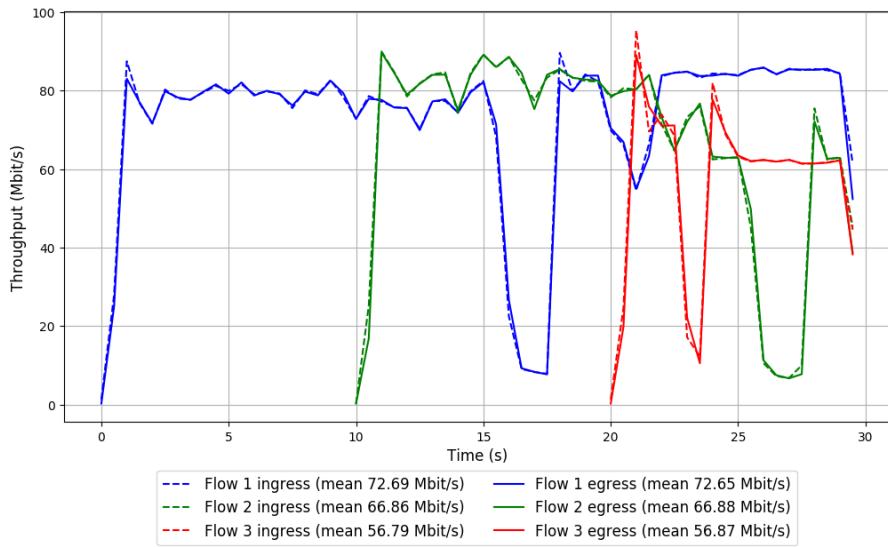
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 21:46:00

End at: 2018-01-09 21:46:30

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 135.56 Mbit/s
95th percentile per-packet one-way delay: 50.767 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 72.65 Mbit/s
95th percentile per-packet one-way delay: 50.796 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 66.88 Mbit/s
95th percentile per-packet one-way delay: 50.417 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 56.87 Mbit/s
95th percentile per-packet one-way delay: 50.472 ms
Loss rate: 1.12%
```

Run 8: Report of QUIC Cubic — Data Link



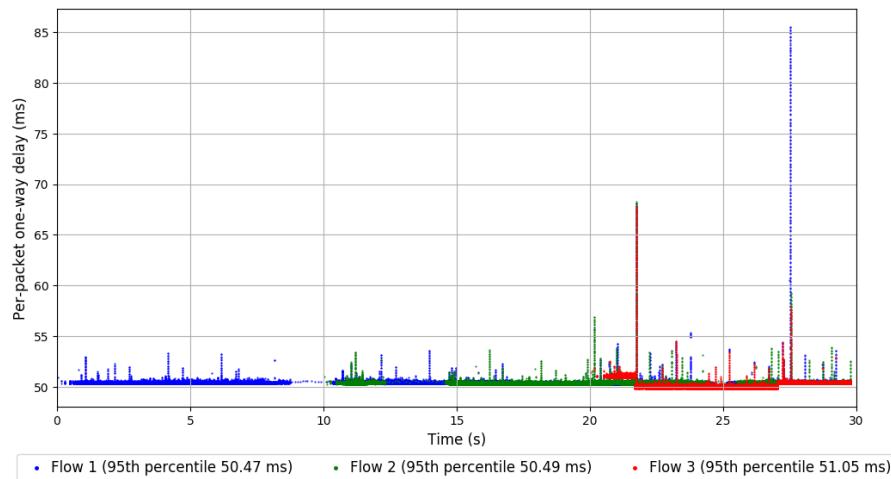
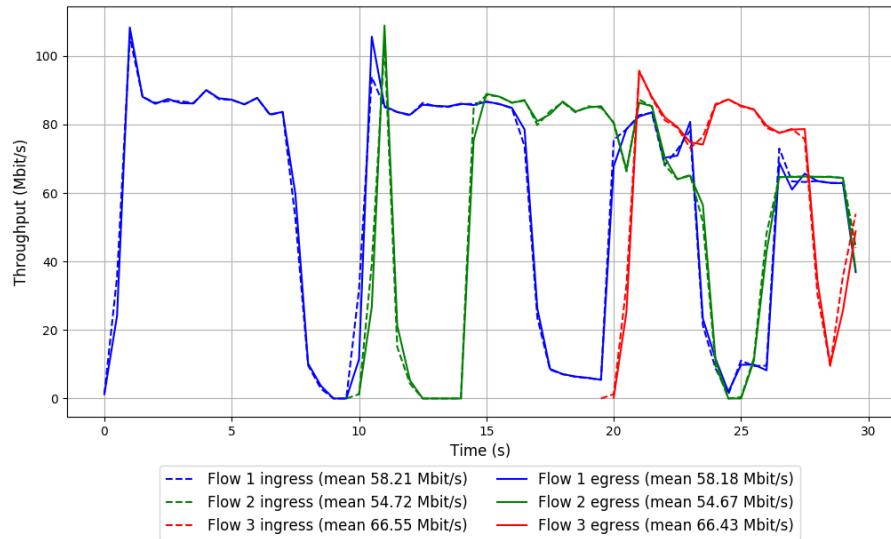
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 21:59:21

End at: 2018-01-09 21:59:51

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 116.26 Mbit/s
95th percentile per-packet one-way delay: 50.510 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 58.18 Mbit/s
95th percentile per-packet one-way delay: 50.473 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 54.67 Mbit/s
95th percentile per-packet one-way delay: 50.486 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 66.43 Mbit/s
95th percentile per-packet one-way delay: 51.049 ms
Loss rate: 1.21%
```

Run 9: Report of QUIC Cubic — Data Link



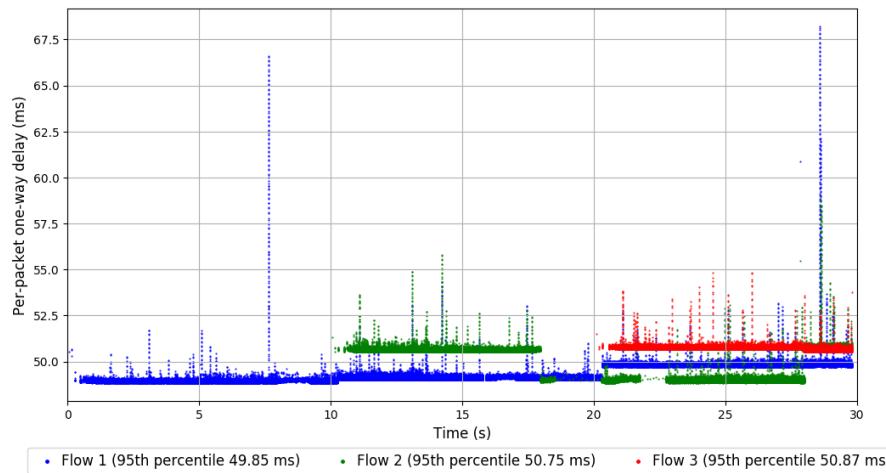
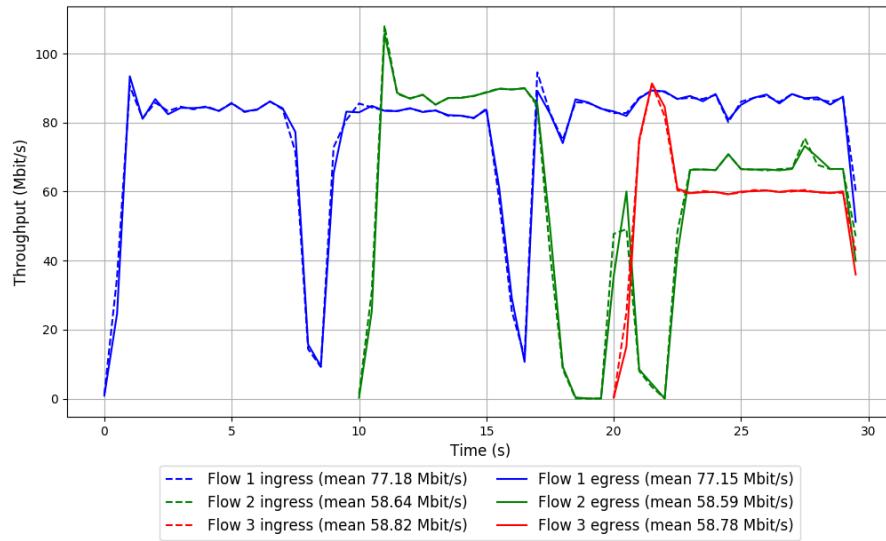
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 22:13:30

End at: 2018-01-09 22:14:00

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 135.20 Mbit/s
95th percentile per-packet one-way delay: 50.773 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 49.853 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 58.59 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 58.78 Mbit/s
95th percentile per-packet one-way delay: 50.867 ms
Loss rate: 1.09%
```

Run 10: Report of QUIC Cubic — Data Link

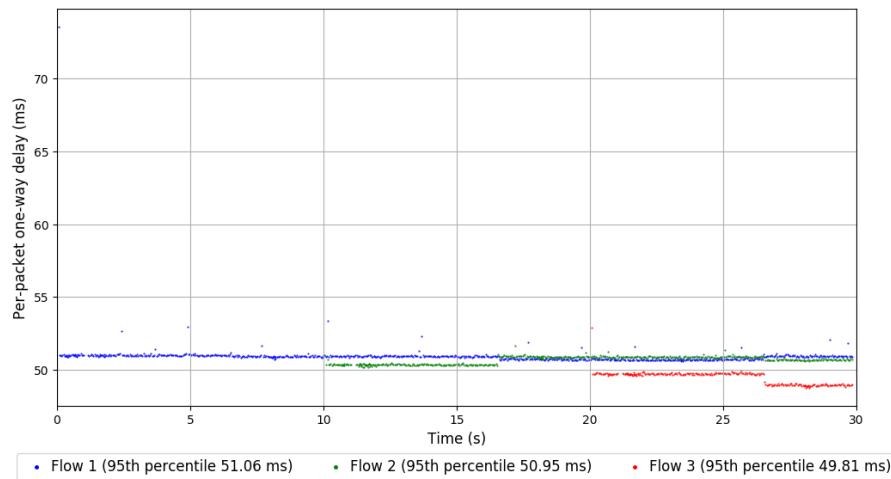
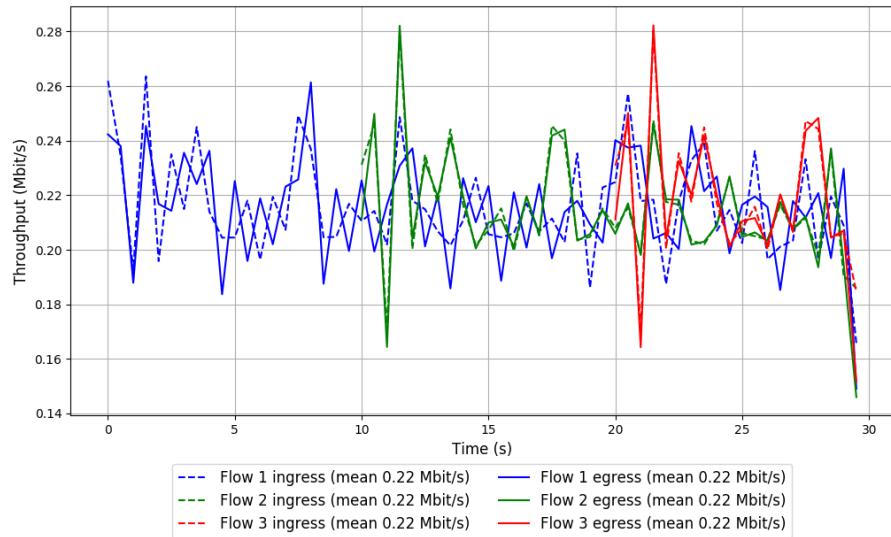


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 20:10:12
End at: 2018-01-09 20:10:42

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.024 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.057 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.808 ms
Loss rate: 1.11%
```

Run 1: Report of SCReAM — Data Link



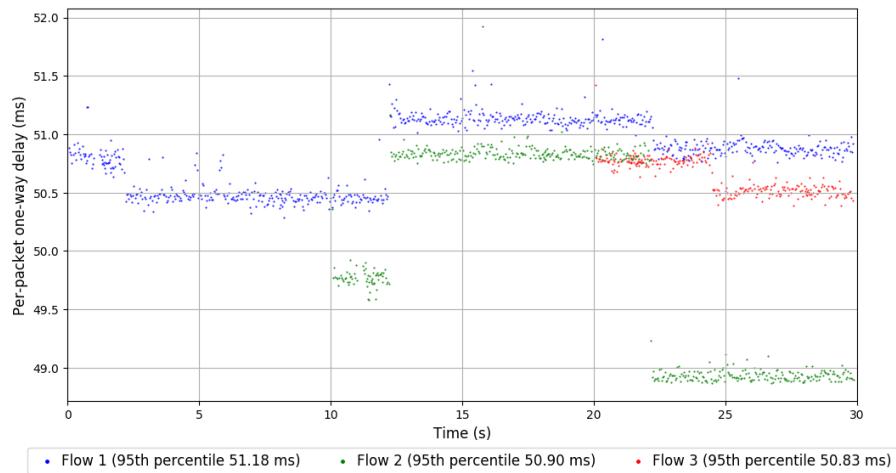
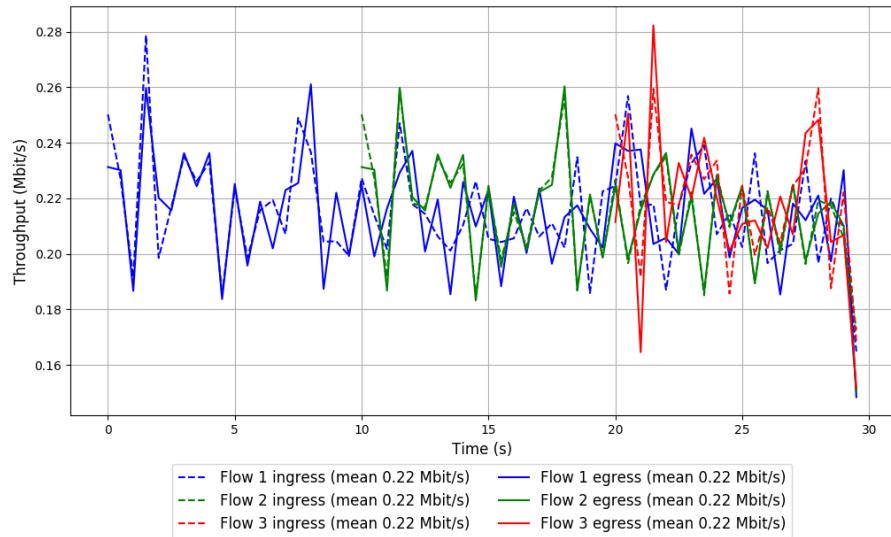
Run 2: Statistics of SCReAM

Start at: 2018-01-09 20:24:26

End at: 2018-01-09 20:24:56

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.152 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.179 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.896 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.825 ms
Loss rate: 1.11%
```

Run 2: Report of SCReAM — Data Link

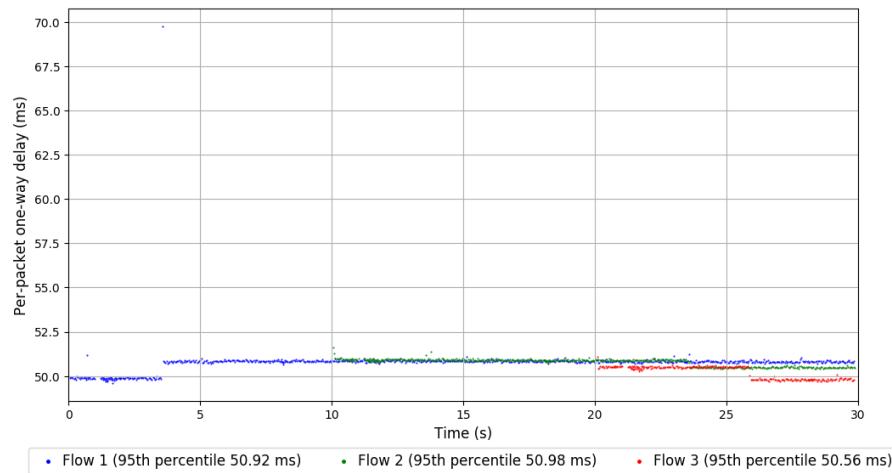
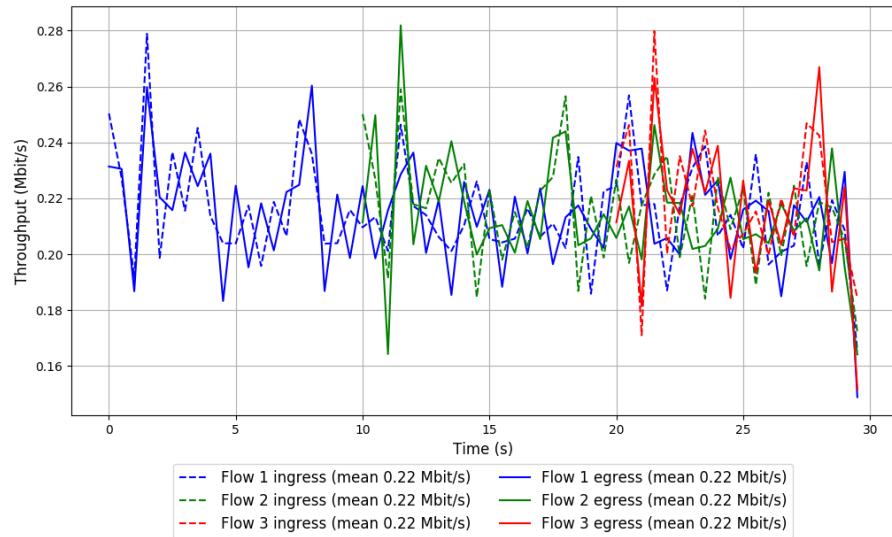


```
Run 3: Statistics of SCReAM

Start at: 2018-01-09 20:37:55
End at: 2018-01-09 20:38:25

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.951 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.922 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.976 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.560 ms
Loss rate: 1.11%
```

Run 3: Report of SCReAM — Data Link



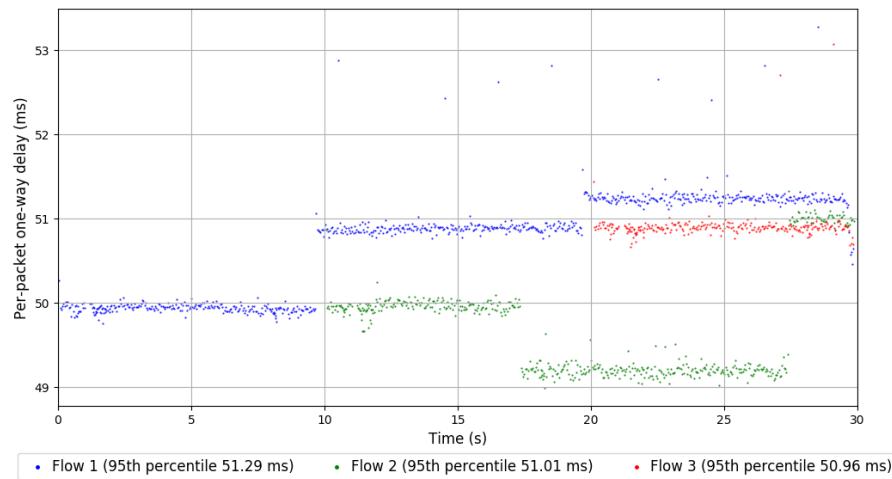
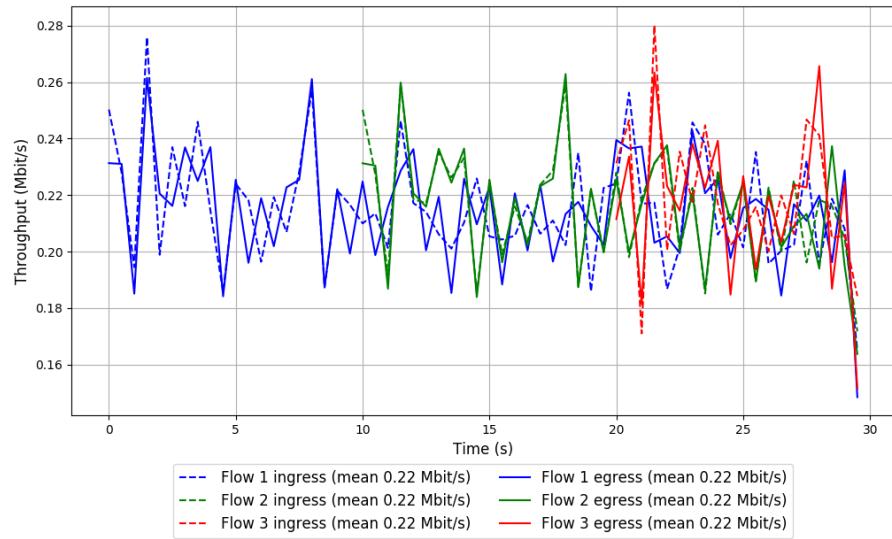
Run 4: Statistics of SCReAM

Start at: 2018-01-09 20:52:11

End at: 2018-01-09 20:52:41

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.260 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.288 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 1.11%
```

Run 4: Report of SCReAM — Data Link



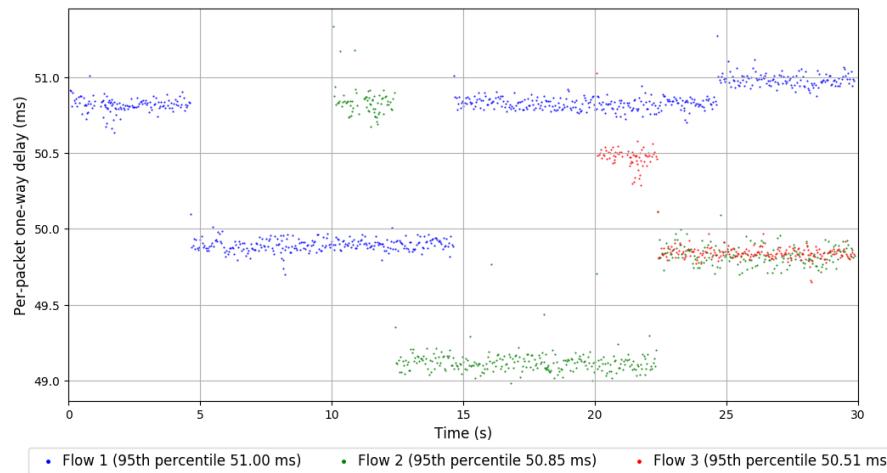
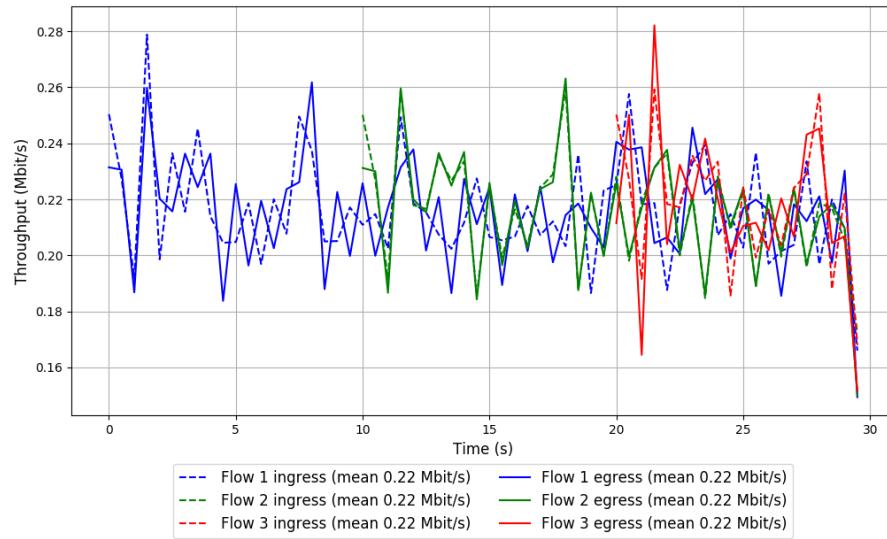
Run 5: Statistics of SCReAM

Start at: 2018-01-09 21:06:16

End at: 2018-01-09 21:06:46

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.977 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.002 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.847 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 1.11%
```

Run 5: Report of SCReAM — Data Link



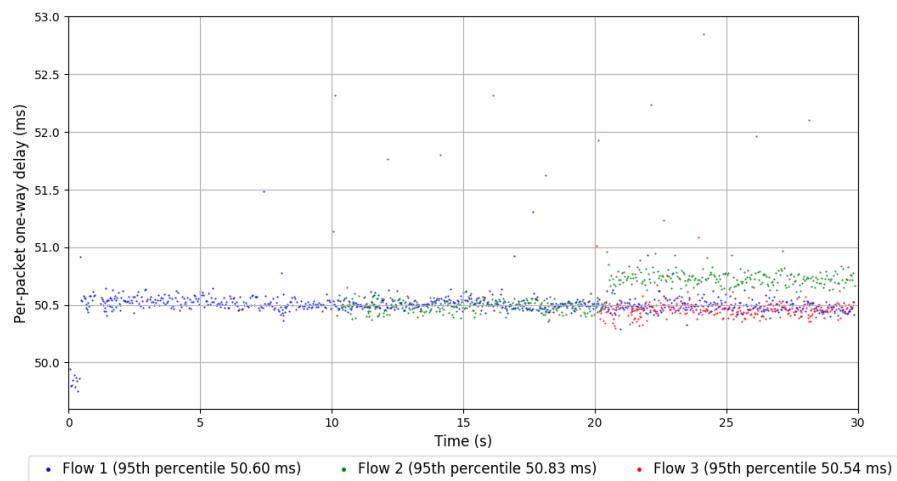
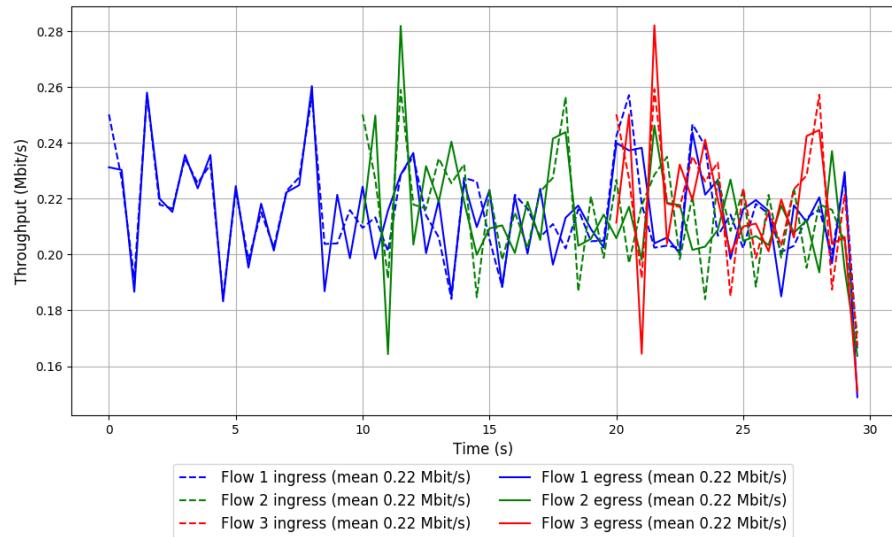
Run 6: Statistics of SCReAM

Start at: 2018-01-09 21:20:38

End at: 2018-01-09 21:21:08

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.767 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.597 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.825 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.538 ms
Loss rate: 1.11%
```

Run 6: Report of SCReAM — Data Link



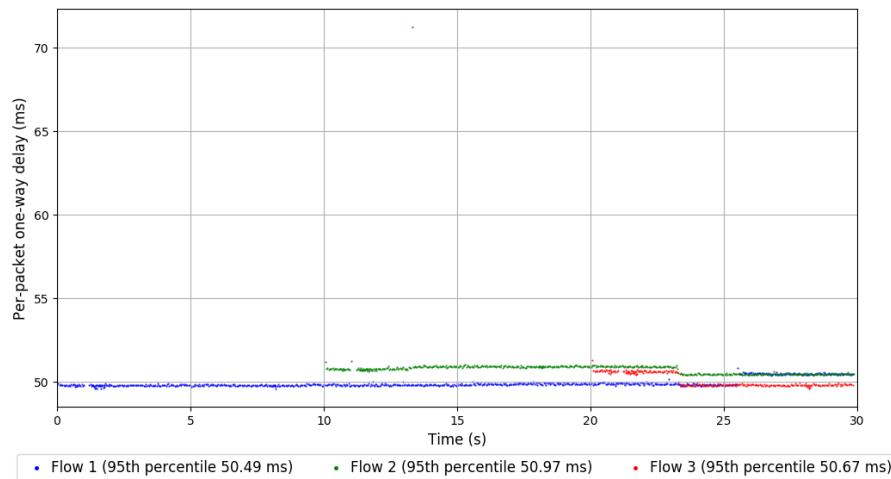
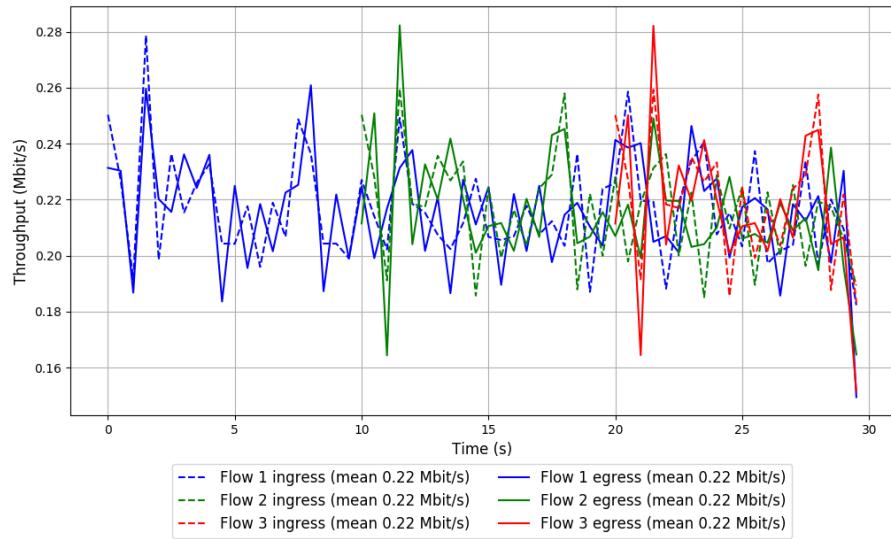
Run 7: Statistics of SCReAM

Start at: 2018-01-09 21:34:55

End at: 2018-01-09 21:35:25

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.934 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.488 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.968 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.674 ms
Loss rate: 1.46%
```

Run 7: Report of SCReAM — Data Link



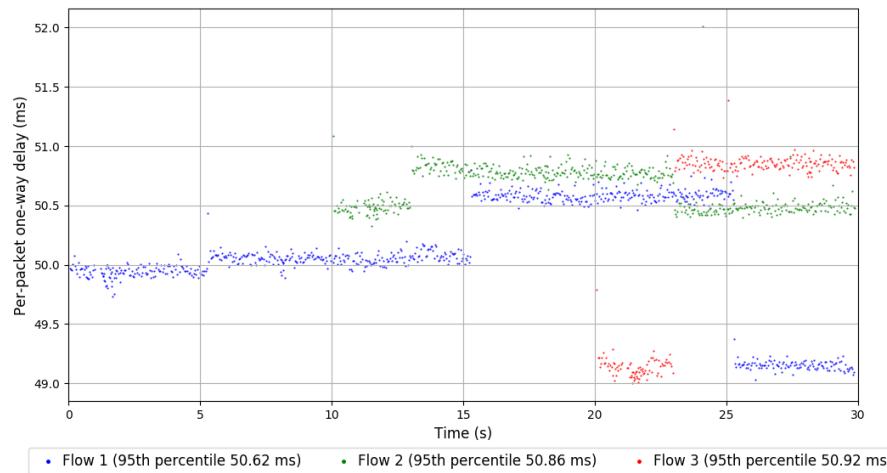
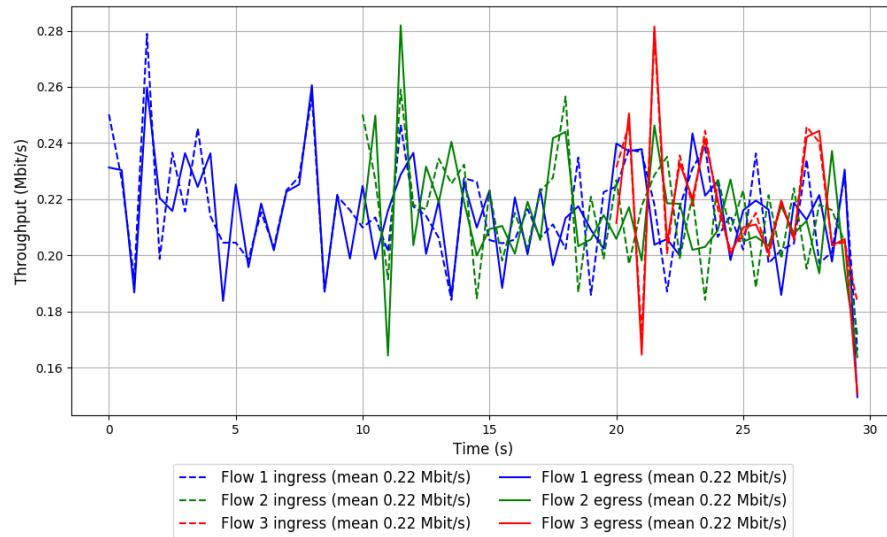
Run 8: Statistics of SCReAM

Start at: 2018-01-09 21:49:15

End at: 2018-01-09 21:49:45

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.872 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.625 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.860 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.918 ms
Loss rate: 1.10%
```

Run 8: Report of SCReAM — Data Link



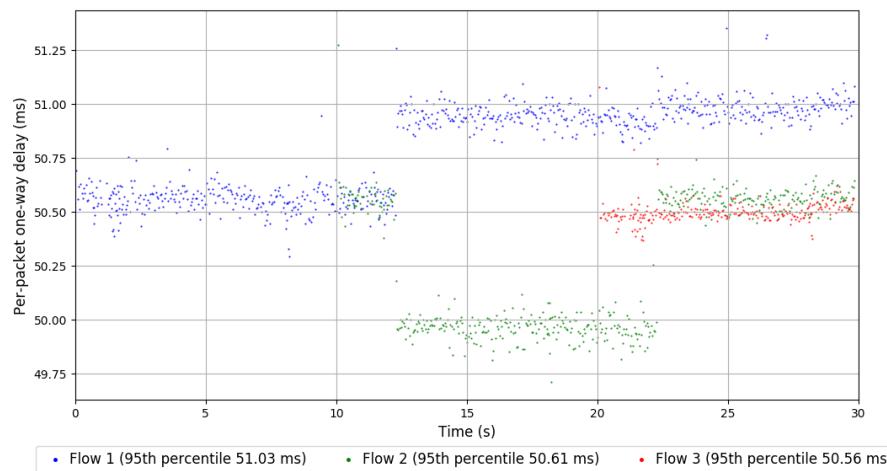
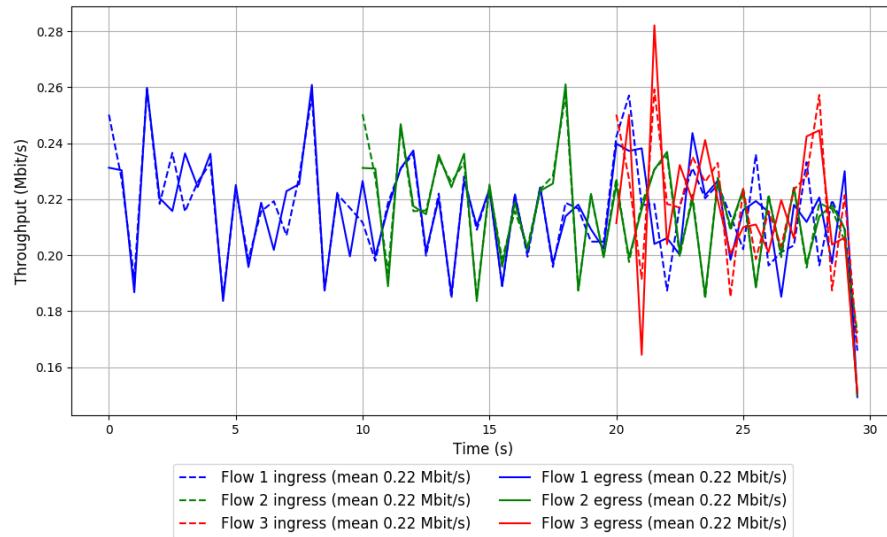
Run 9: Statistics of SCReAM

Start at: 2018-01-09 22:02:36

End at: 2018-01-09 22:03:06

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.006 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.029 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.564 ms
Loss rate: 1.11%
```

Run 9: Report of SCReAM — Data Link



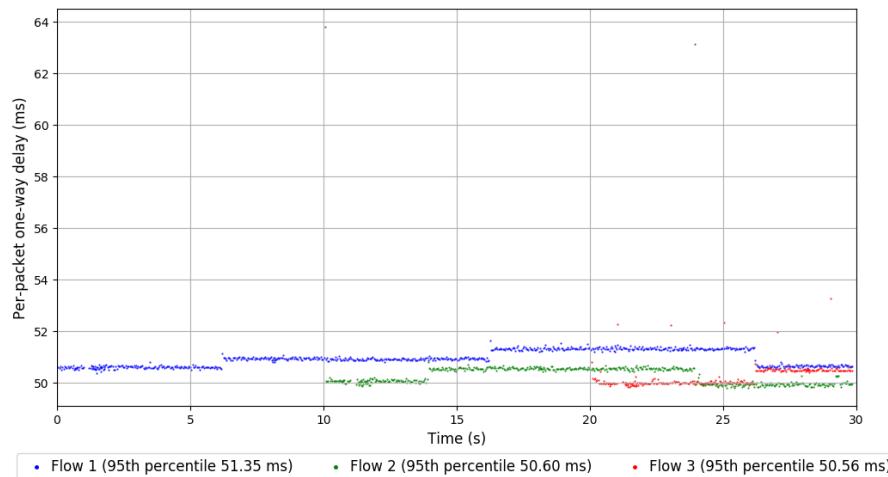
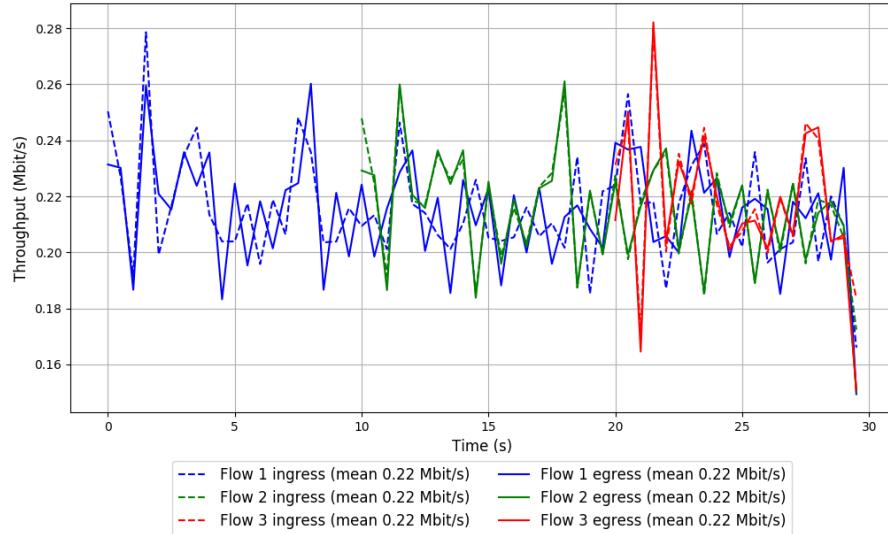
Run 10: Statistics of SCReAM

Start at: 2018-01-09 22:16:45

End at: 2018-01-09 22:17:15

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.331 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.354 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.596 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.556 ms
Loss rate: 1.11%
```

Run 10: Report of SCReAM — Data Link

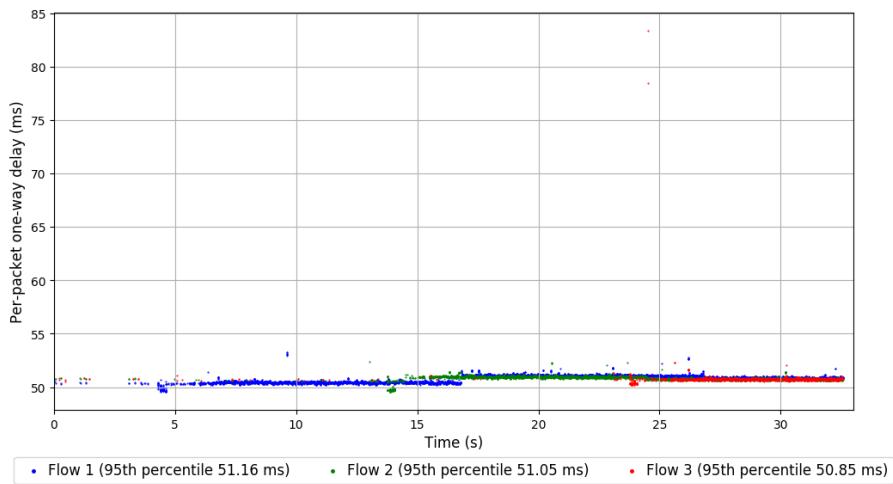
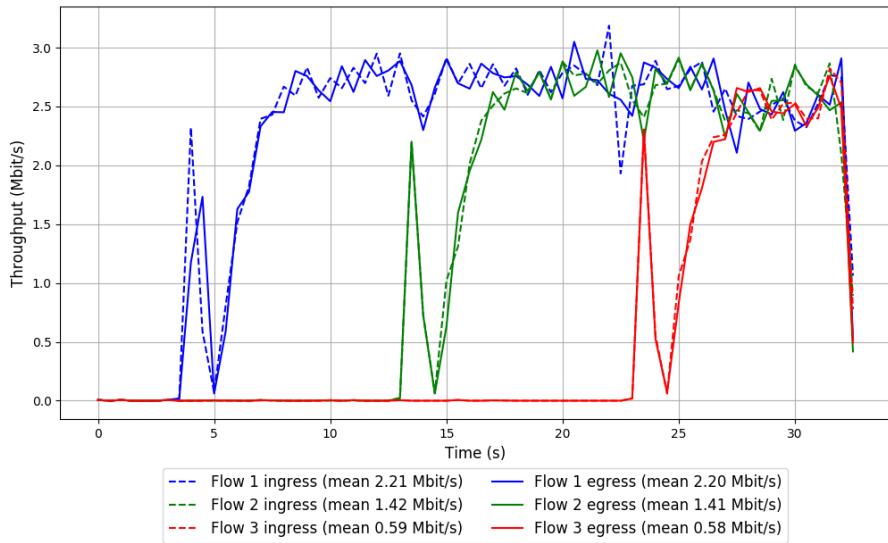


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-09 20:11:57
End at: 2018-01-09 20:12:27

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 51.129 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 51.158 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 51.052 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 50.849 ms
Loss rate: 2.03%
```

Run 1: Report of WebRTC media — Data Link

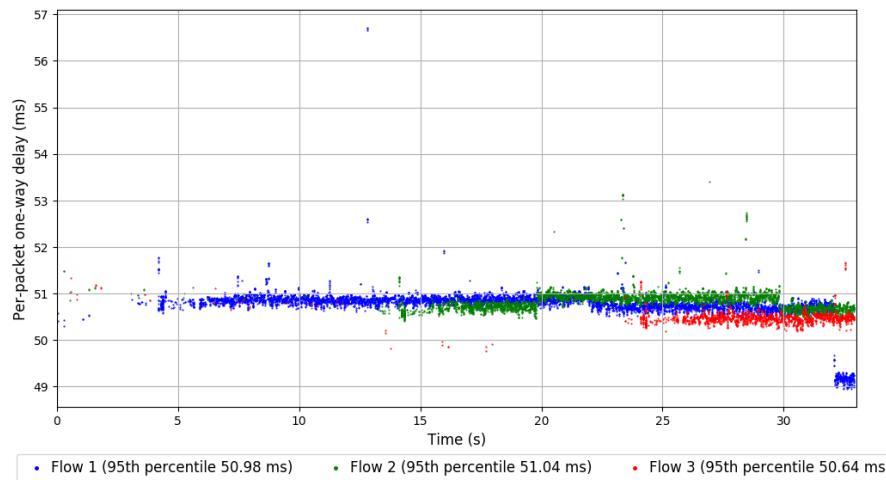
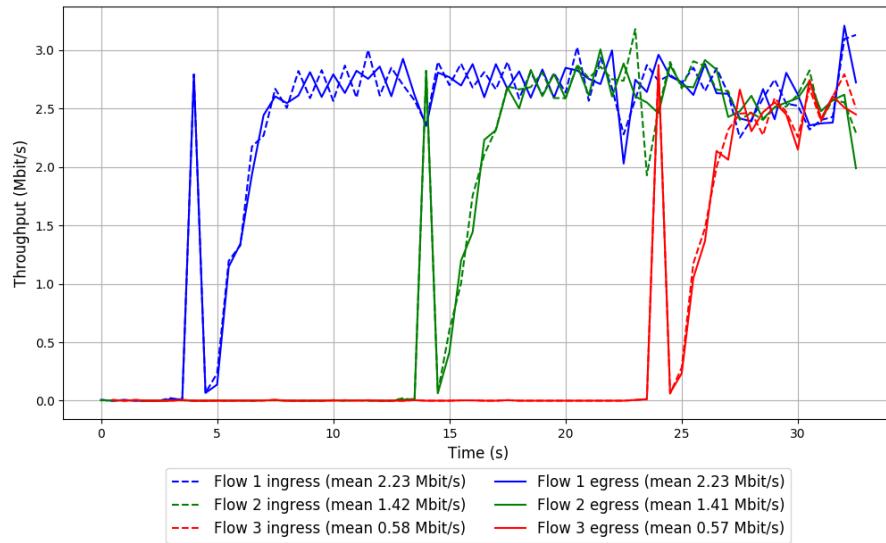


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-09 20:26:12
End at: 2018-01-09 20:26:42

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 51.011 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.983 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 51.040 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 50.644 ms
Loss rate: 1.54%
```

Run 2: Report of WebRTC media — Data Link

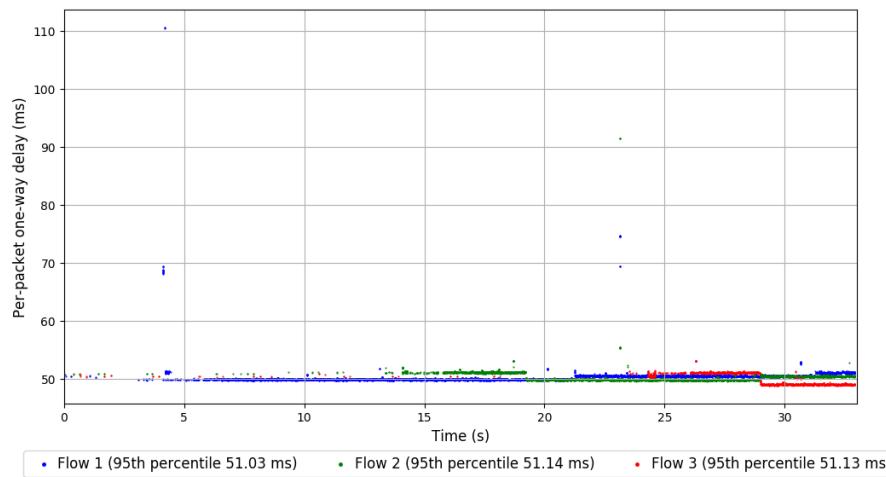
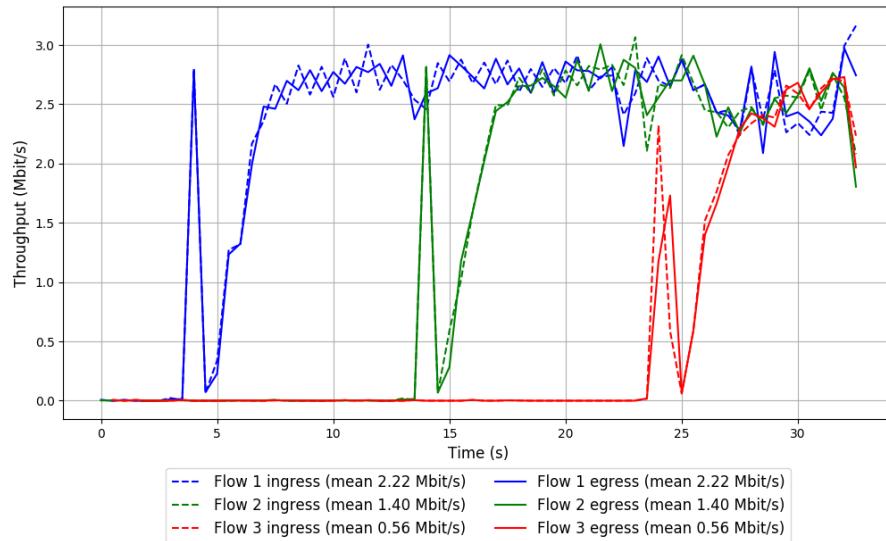


```
Run 3: Statistics of WebRTC media

Start at: 2018-01-09 20:39:42
End at: 2018-01-09 20:40:12

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 51.111 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 51.033 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 51.144 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 51.131 ms
Loss rate: 1.38%
```

Run 3: Report of WebRTC media — Data Link

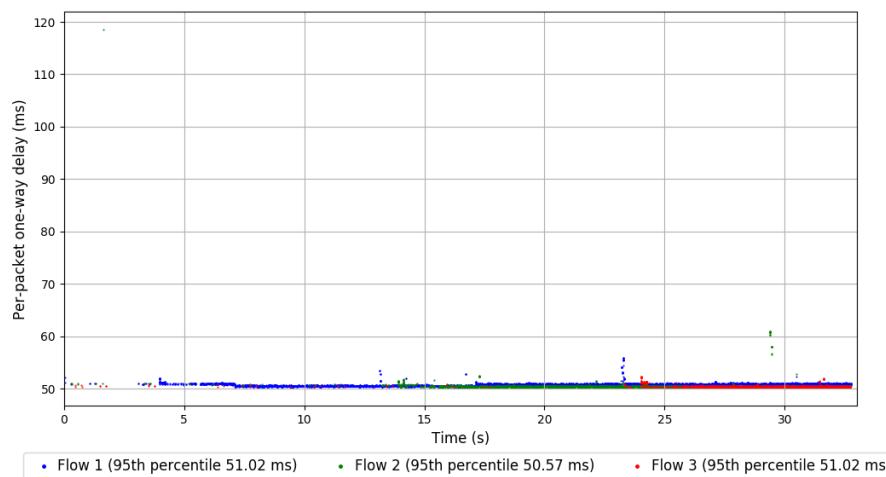
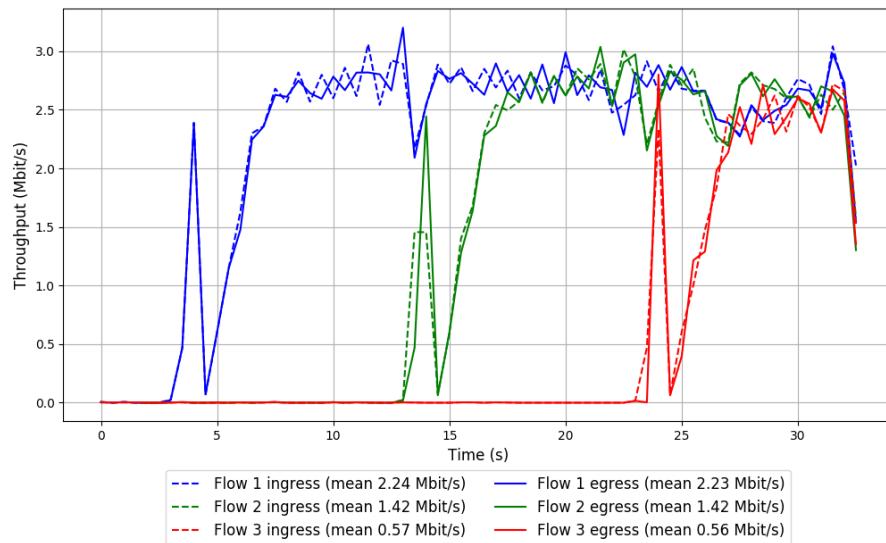


```
Run 4: Statistics of WebRTC media

Start at: 2018-01-09 20:53:57
End at: 2018-01-09 20:54:27

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 51.017 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 50.567 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 51.020 ms
Loss rate: 1.37%
```

Run 4: Report of WebRTC media — Data Link



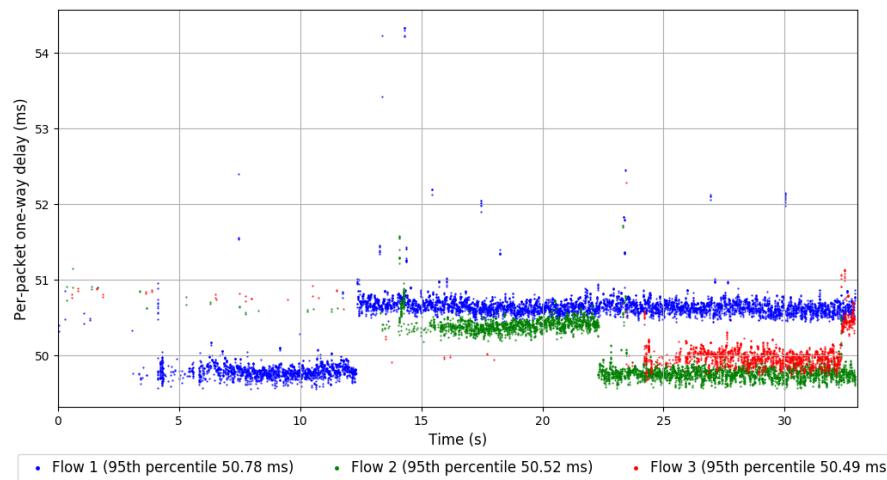
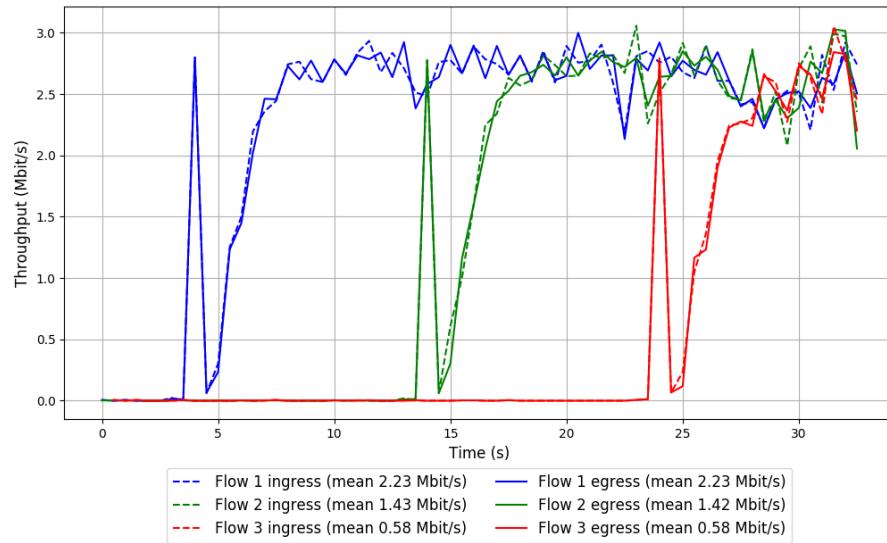
Run 5: Statistics of WebRTC media

Start at: 2018-01-09 21:07:59

End at: 2018-01-09 21:08:29

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 50.751 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.779 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 50.520 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 50.489 ms
Loss rate: 1.28%
```

Run 5: Report of WebRTC media — Data Link



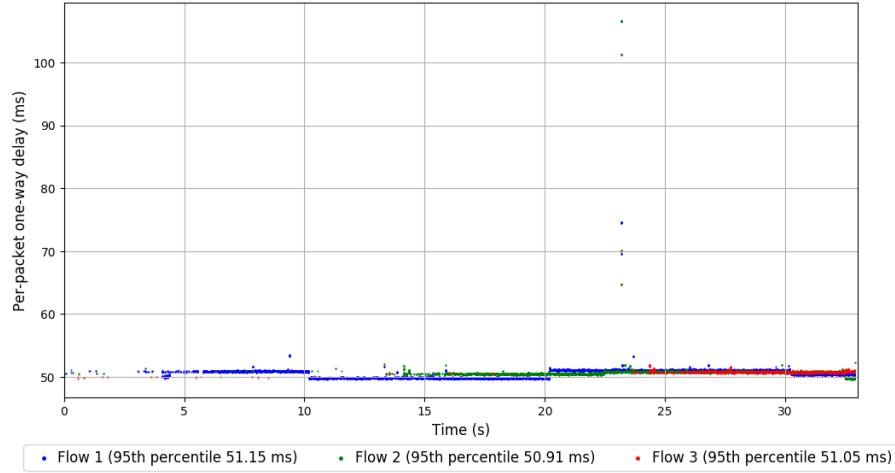
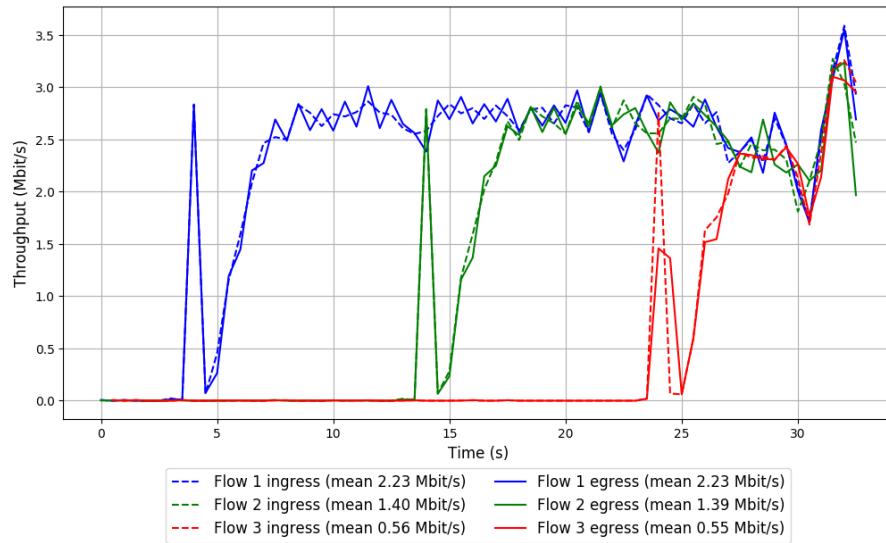
Run 6: Statistics of WebRTC media

Start at: 2018-01-09 21:22:21

End at: 2018-01-09 21:22:51

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 51.129 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 51.153 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 50.909 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 51.046 ms
Loss rate: 1.63%
```

Run 6: Report of WebRTC media — Data Link

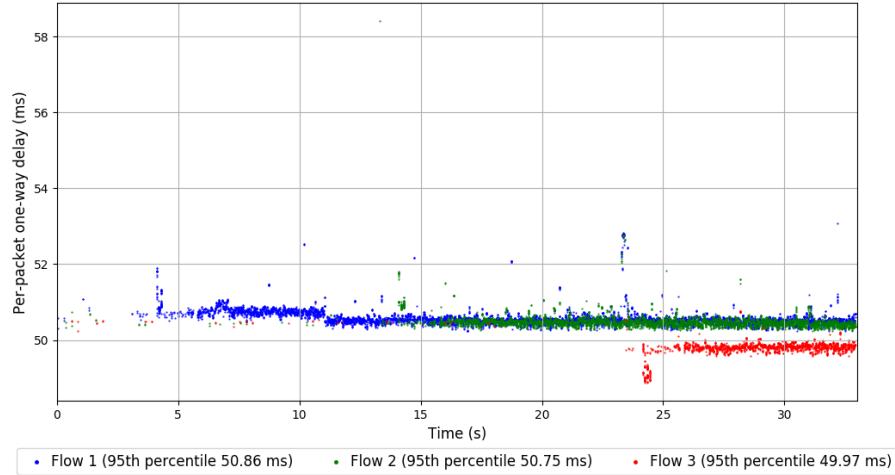
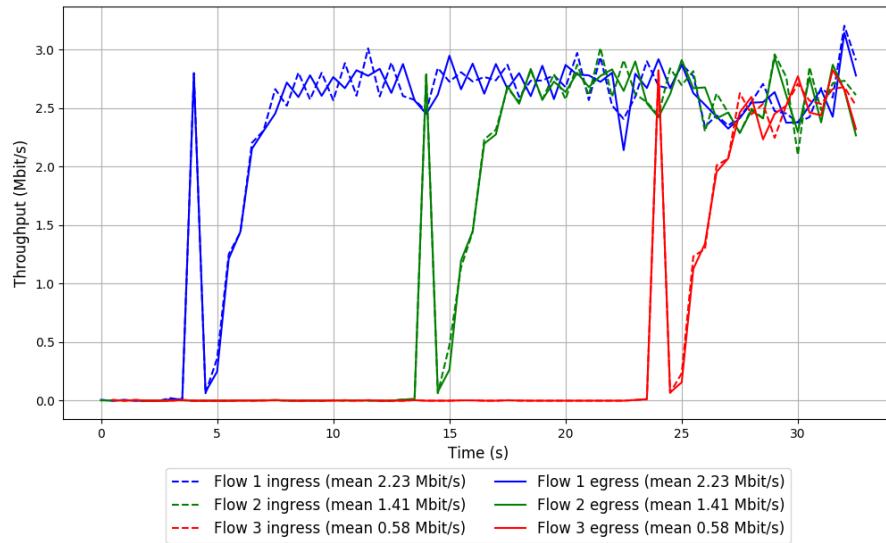


```
Run 7: Statistics of WebRTC media

Start at: 2018-01-09 21:36:40
End at: 2018-01-09 21:37:10

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 50.825 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 50.856 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 50.748 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 49.966 ms
Loss rate: 1.34%
```

Run 7: Report of WebRTC media — Data Link

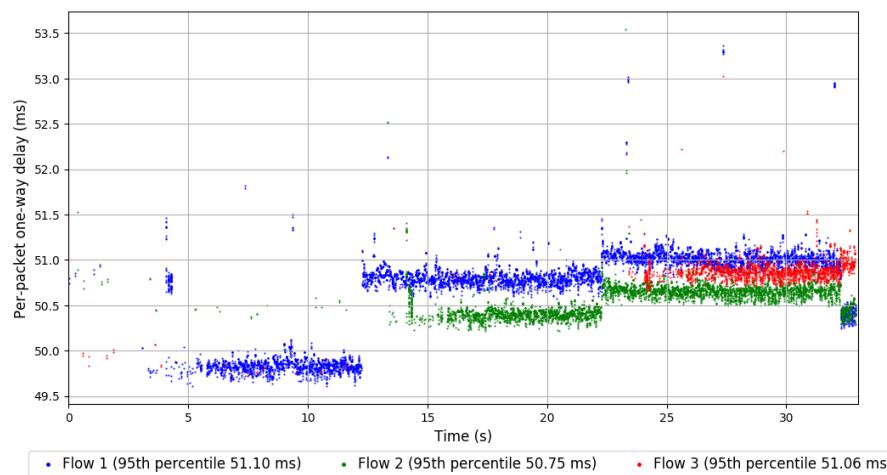
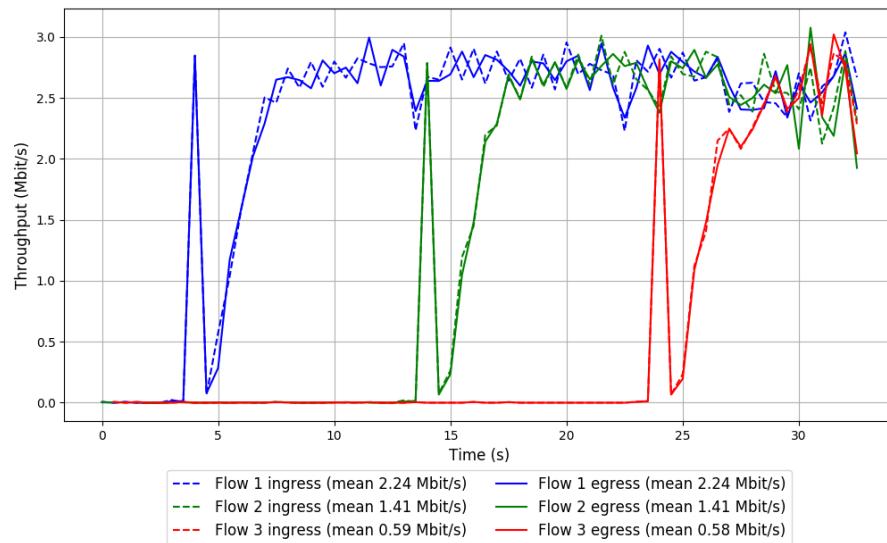


```
Run 8: Statistics of WebRTC media

Start at: 2018-01-09 21:50:59
End at: 2018-01-09 21:51:29

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 51.103 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 50.749 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 51.059 ms
Loss rate: 1.29%
```

Run 8: Report of WebRTC media — Data Link

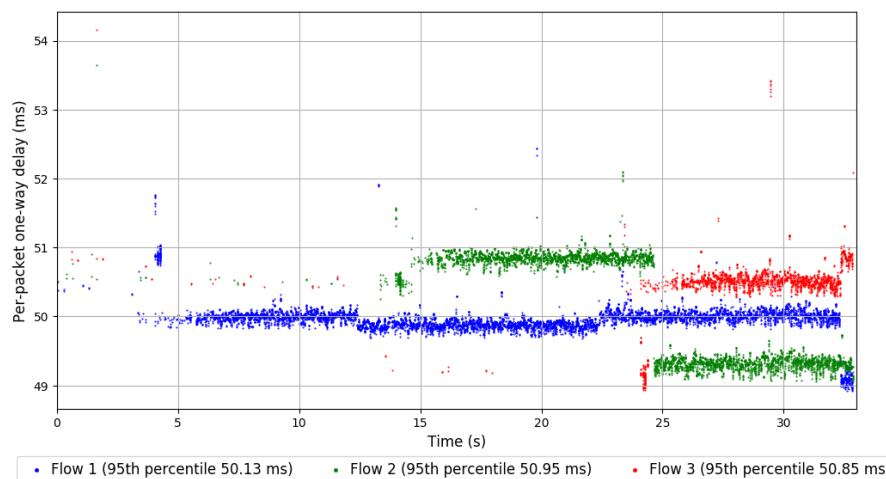
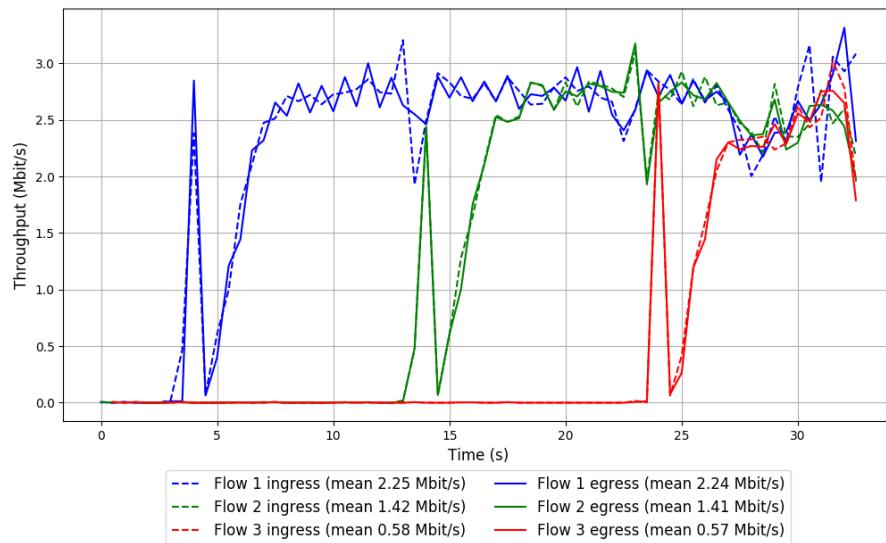


```
Run 9: Statistics of WebRTC media

Start at: 2018-01-09 22:04:19
End at: 2018-01-09 22:04:49

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 50.899 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 50.128 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 50.946 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 50.853 ms
Loss rate: 1.50%
```

Run 9: Report of WebRTC media — Data Link

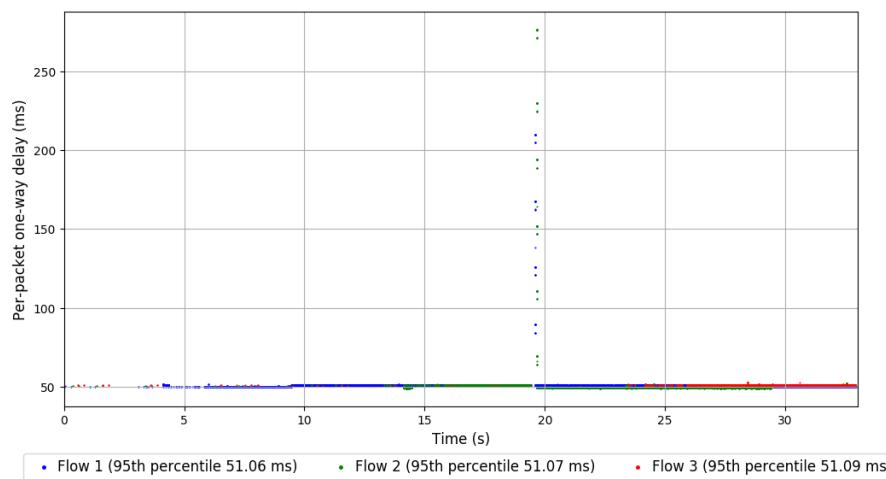
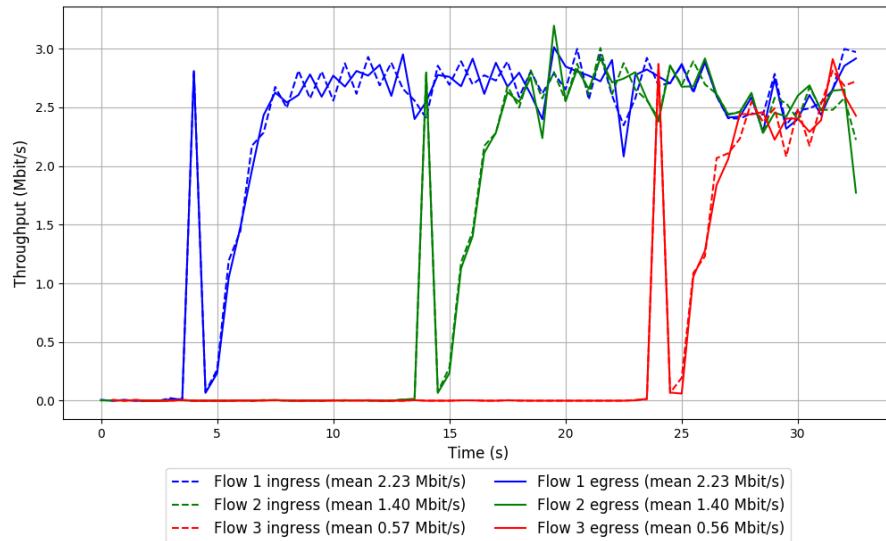


```
Run 10: Statistics of WebRTC media

Start at: 2018-01-09 22:18:32
End at: 2018-01-09 22:19:02

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 51.068 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 51.064 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 51.066 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 1.45%
```

Run 10: Report of WebRTC media — Data Link

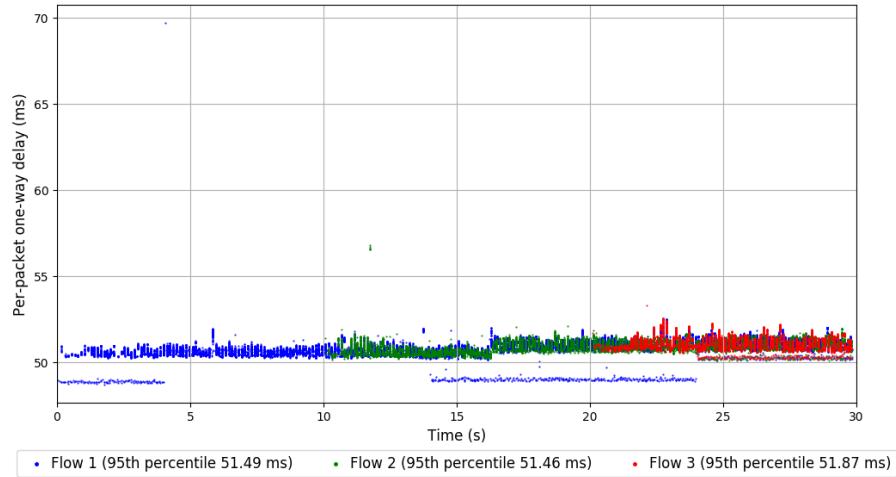
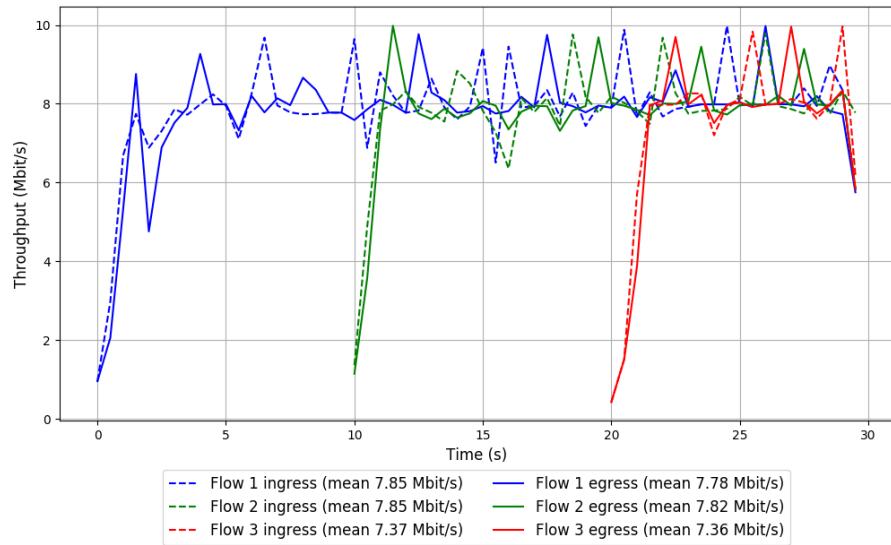


```
Run 1: Statistics of Sprout

Start at: 2018-01-09 20:05:14
End at: 2018-01-09 20:05:44

# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 51.531 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 51.460 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 51.868 ms
Loss rate: 1.37%
```

Run 1: Report of Sprout — Data Link



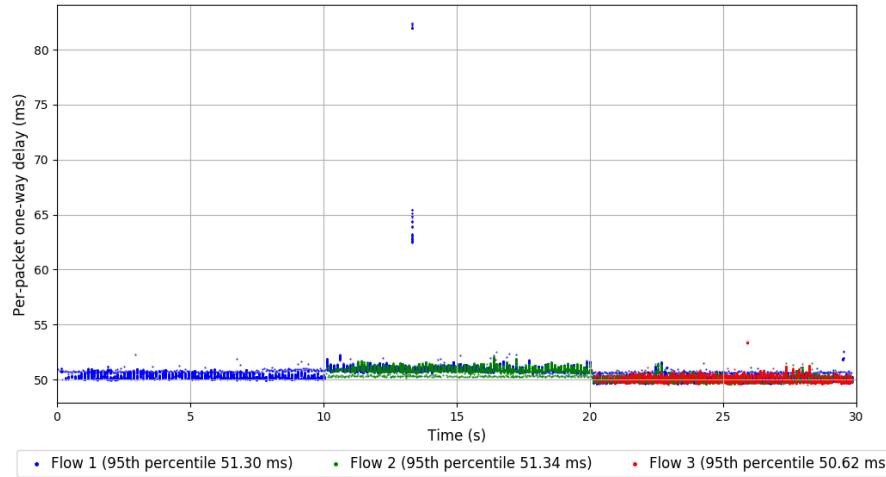
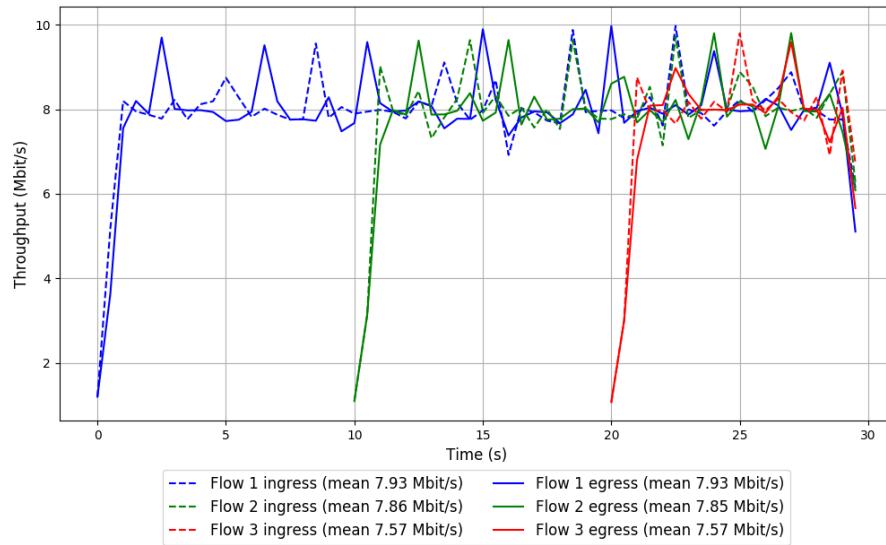
Run 2: Statistics of Sprout

Start at: 2018-01-09 20:19:31

End at: 2018-01-09 20:20:01

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.61 Mbit/s
95th percentile per-packet one-way delay: 51.288 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.298 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 51.336 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 50.623 ms
Loss rate: 1.31%
```

Run 2: Report of Sprout — Data Link



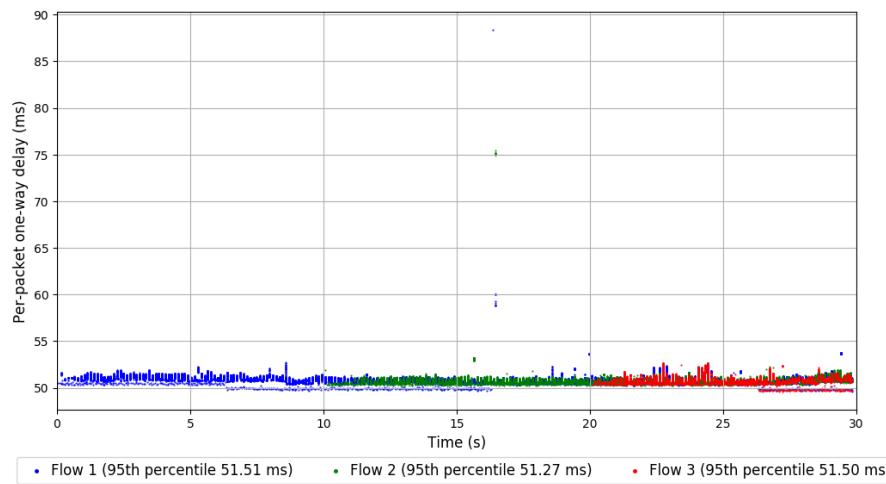
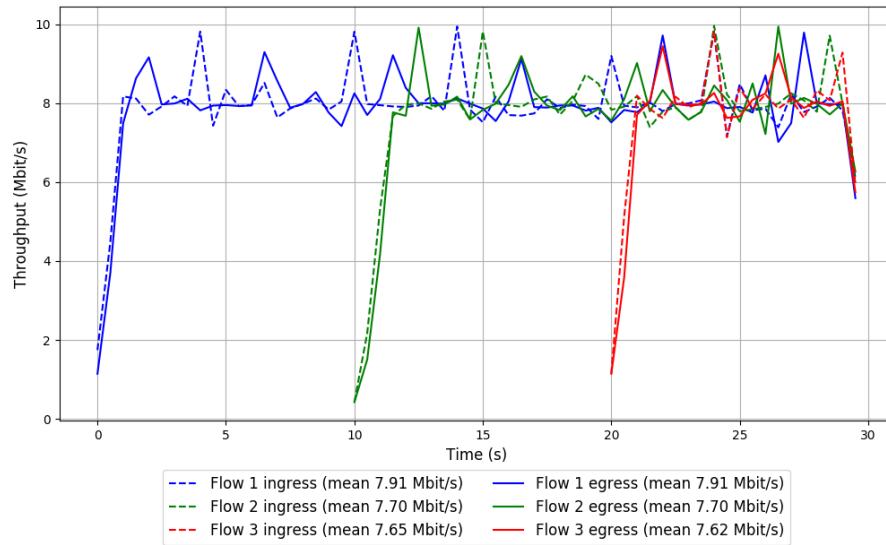
Run 3: Statistics of Sprout

Start at: 2018-01-09 20:33:02

End at: 2018-01-09 20:33:32

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.52 Mbit/s
95th percentile per-packet one-way delay: 51.460 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 51.514 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 51.267 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 51.497 ms
Loss rate: 1.23%
```

Run 3: Report of Sprout — Data Link



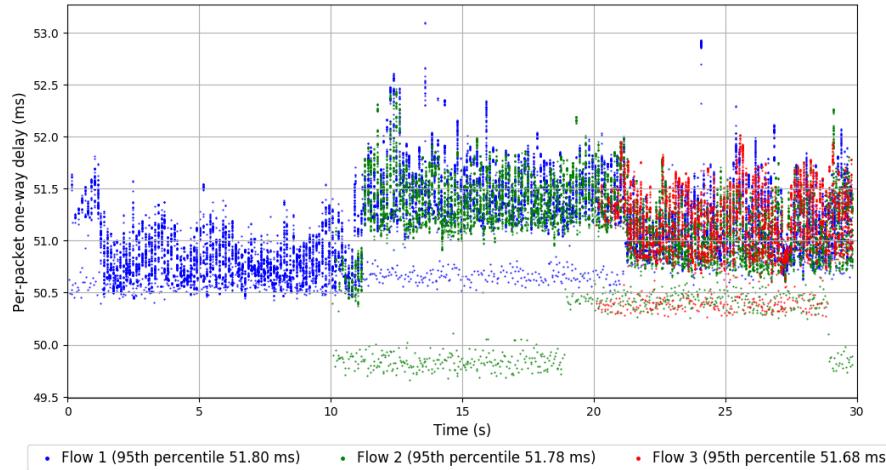
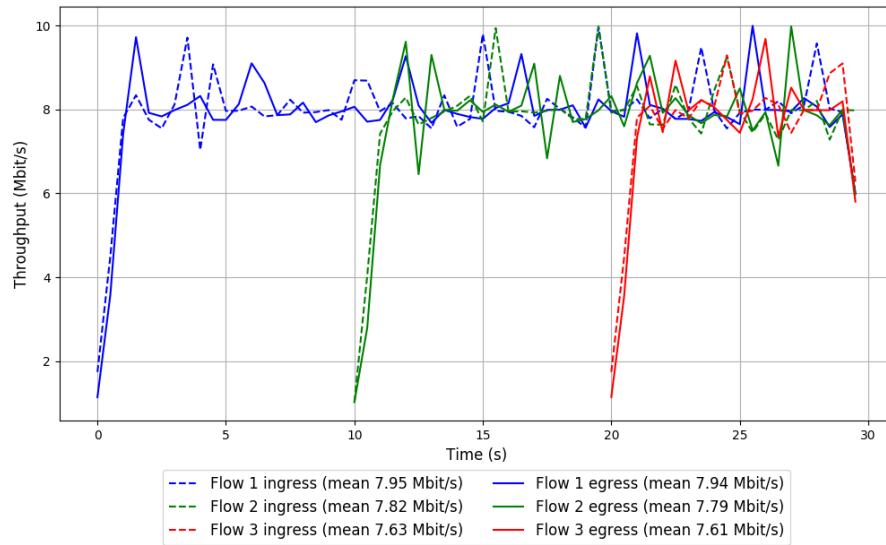
Run 4: Statistics of Sprout

Start at: 2018-01-09 20:47:19

End at: 2018-01-09 20:47:49

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.60 Mbit/s
95th percentile per-packet one-way delay: 51.779 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 51.804 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 51.779 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 51.677 ms
Loss rate: 1.50%
```

Run 4: Report of Sprout — Data Link



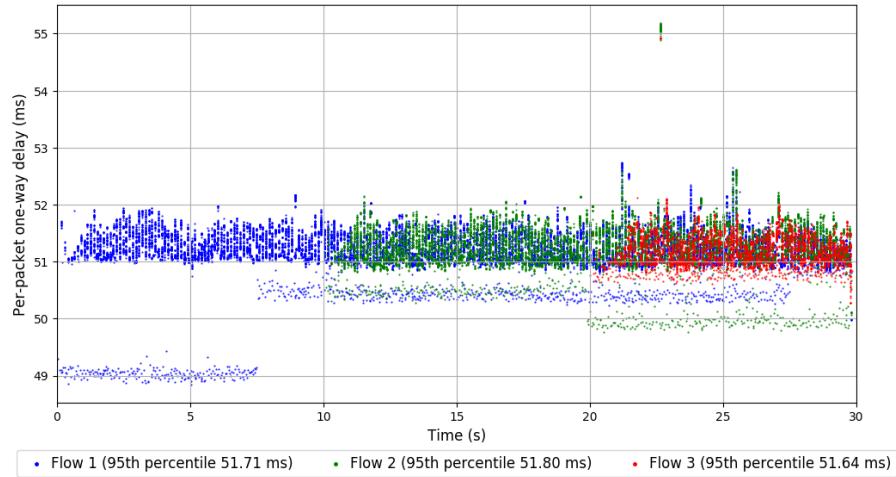
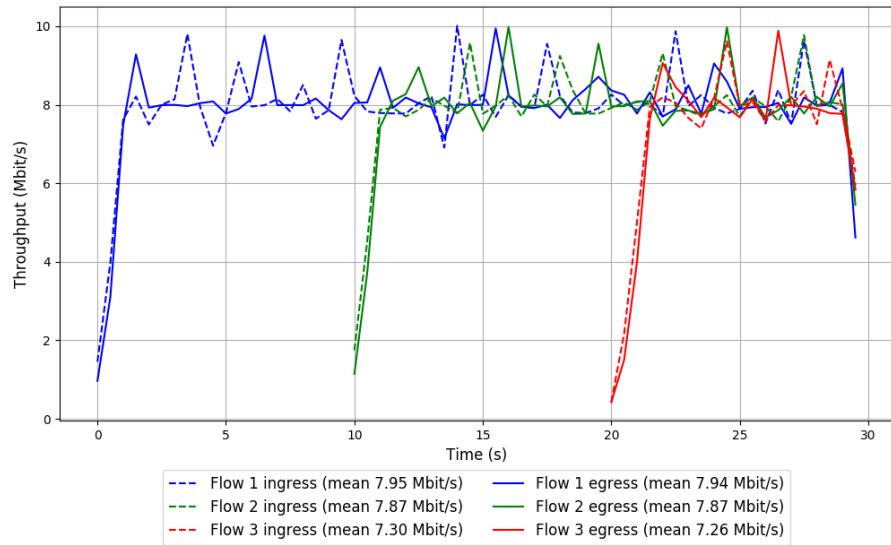
Run 5: Statistics of Sprout

Start at: 2018-01-09 21:01:21

End at: 2018-01-09 21:01:51

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 51.732 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 51.707 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 51.800 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 51.644 ms
Loss rate: 1.35%
```

Run 5: Report of Sprout — Data Link



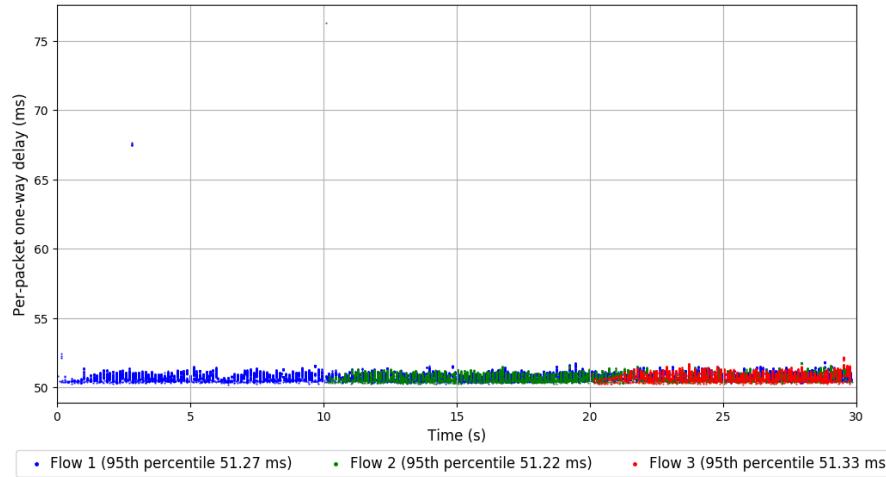
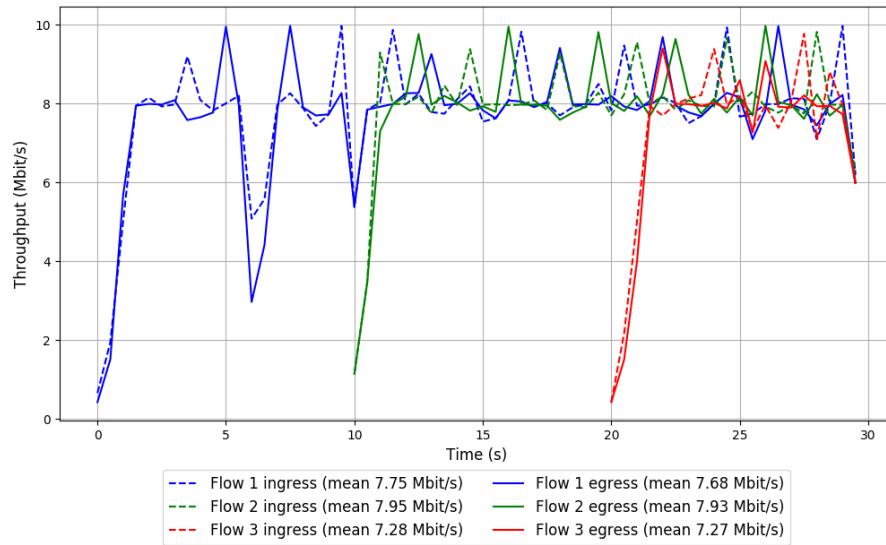
Run 6: Statistics of Sprout

Start at: 2018-01-09 21:15:40

End at: 2018-01-09 21:16:10

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.31 Mbit/s
95th percentile per-packet one-way delay: 51.265 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 51.269 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 51.219 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 51.334 ms
Loss rate: 1.39%
```

Run 6: Report of Sprout — Data Link



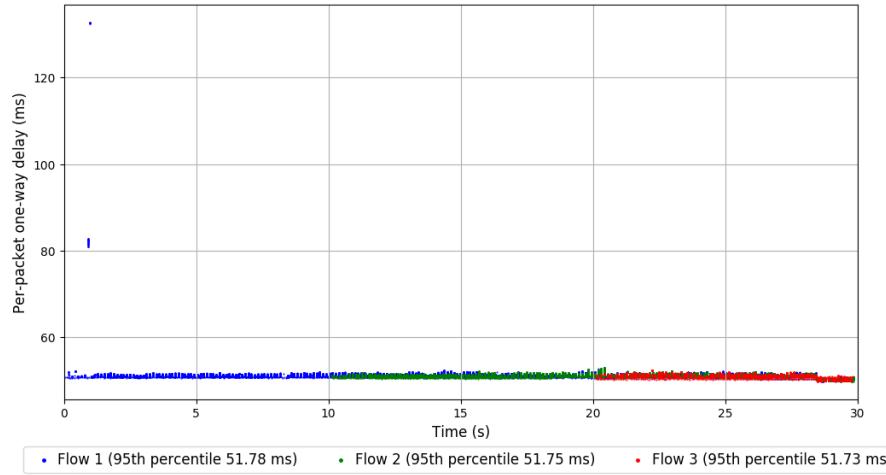
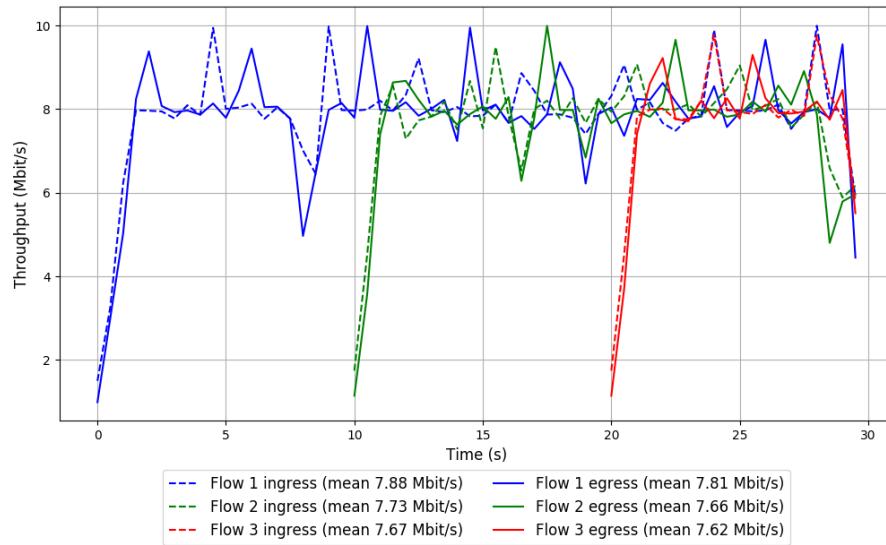
Run 7: Statistics of Sprout

Start at: 2018-01-09 21:30:02

End at: 2018-01-09 21:30:32

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 51.764 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 51.780 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 51.753 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 51.726 ms
Loss rate: 1.32%
```

Run 7: Report of Sprout — Data Link



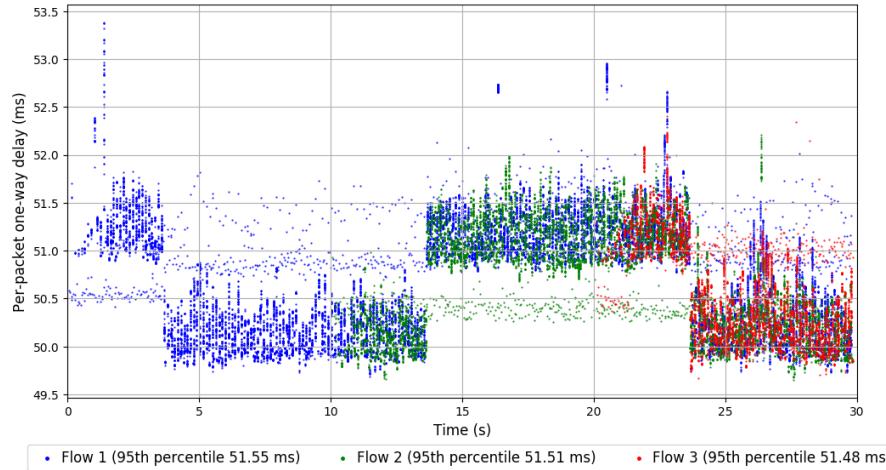
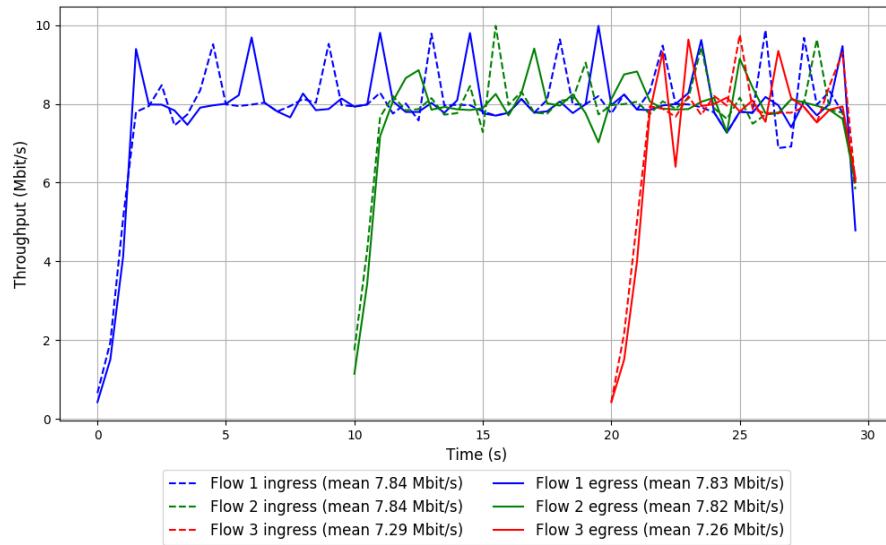
Run 8: Statistics of Sprout

Start at: 2018-01-09 21:44:17

End at: 2018-01-09 21:44:47

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 51.529 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 51.552 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 51.506 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 51.476 ms
Loss rate: 1.29%
```

Run 8: Report of Sprout — Data Link



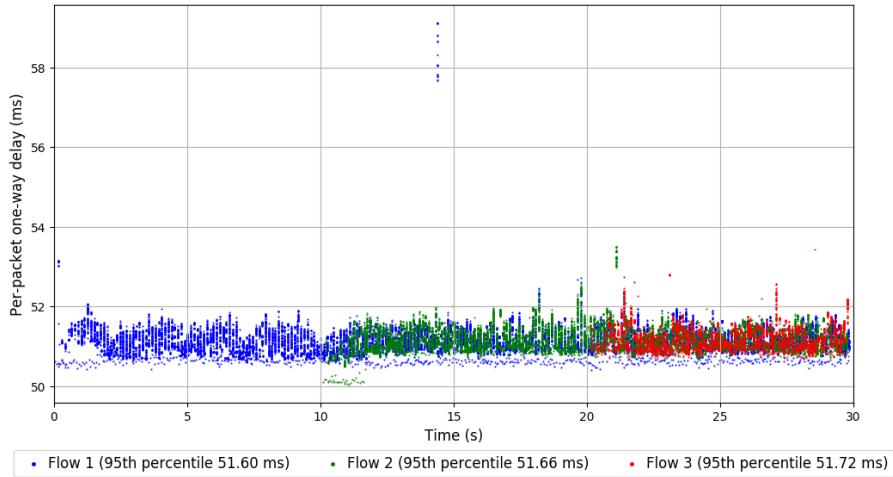
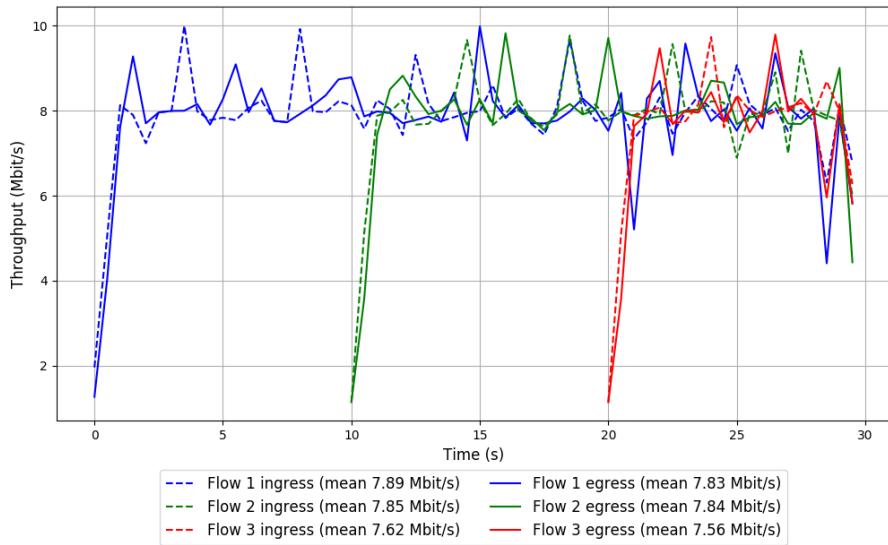
Run 9: Statistics of Sprout

Start at: 2018-01-09 21:57:39

End at: 2018-01-09 21:58:09

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.50 Mbit/s
95th percentile per-packet one-way delay: 51.637 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 51.599 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 51.658 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 51.722 ms
Loss rate: 2.14%
```

Run 9: Report of Sprout — Data Link



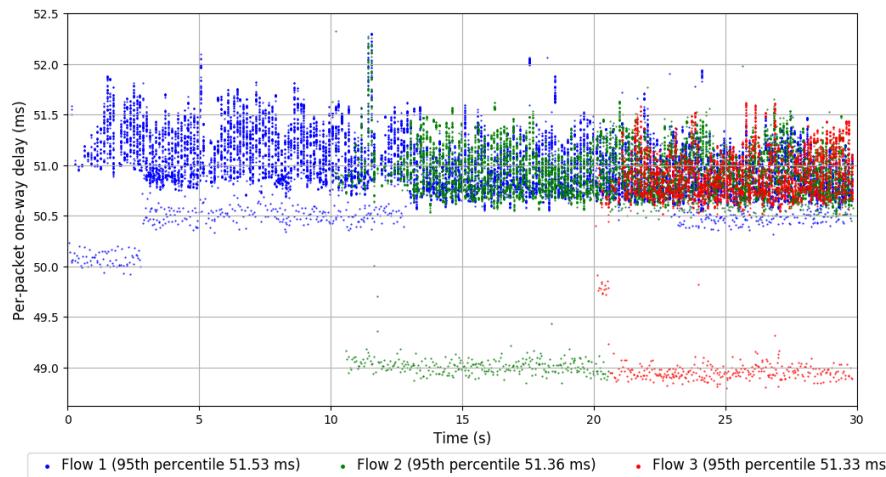
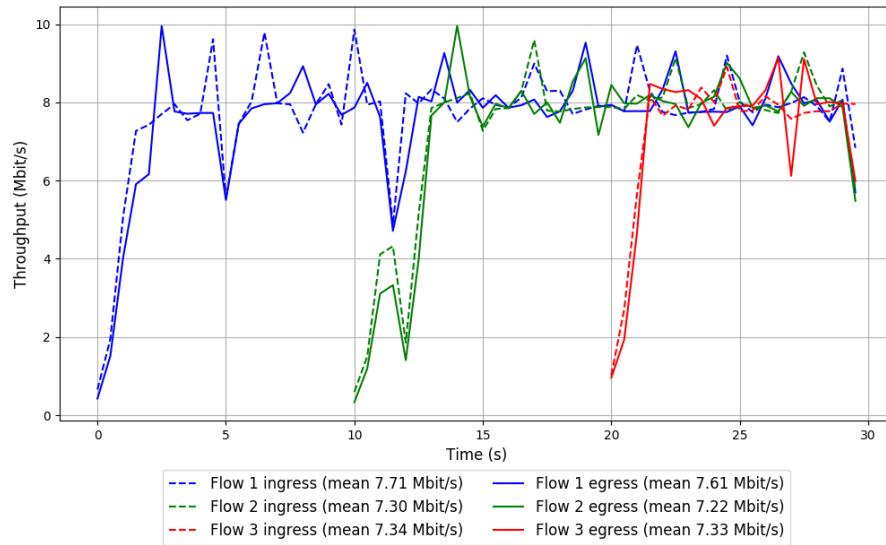
Run 10: Statistics of Sprout

Start at: 2018-01-09 22:11:48

End at: 2018-01-09 22:12:18

```
# Below is generated by plot.py at 2018-01-10 01:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 51.446 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 51.529 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 51.358 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 7.33 Mbit/s
95th percentile per-packet one-way delay: 51.325 ms
Loss rate: 1.36%
```

Run 10: Report of Sprout — Data Link

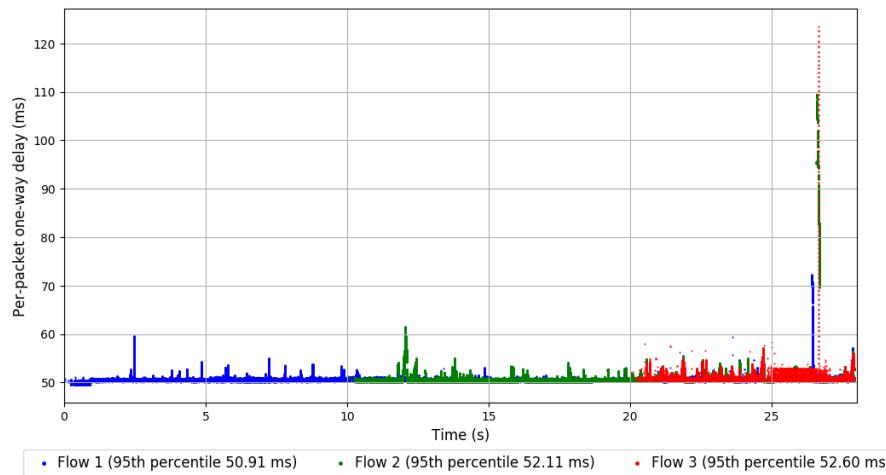
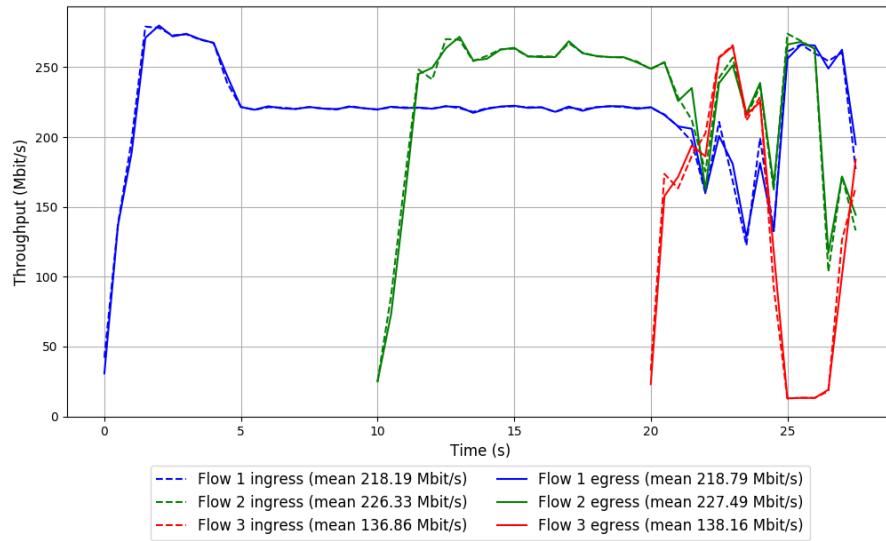


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 20:15:28
End at: 2018-01-09 20:15:58

# Below is generated by plot.py at 2018-01-10 01:31:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.24 Mbit/s
95th percentile per-packet one-way delay: 51.389 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 218.79 Mbit/s
95th percentile per-packet one-way delay: 50.906 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 227.49 Mbit/s
95th percentile per-packet one-way delay: 52.114 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 138.16 Mbit/s
95th percentile per-packet one-way delay: 52.605 ms
Loss rate: 0.26%
```

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



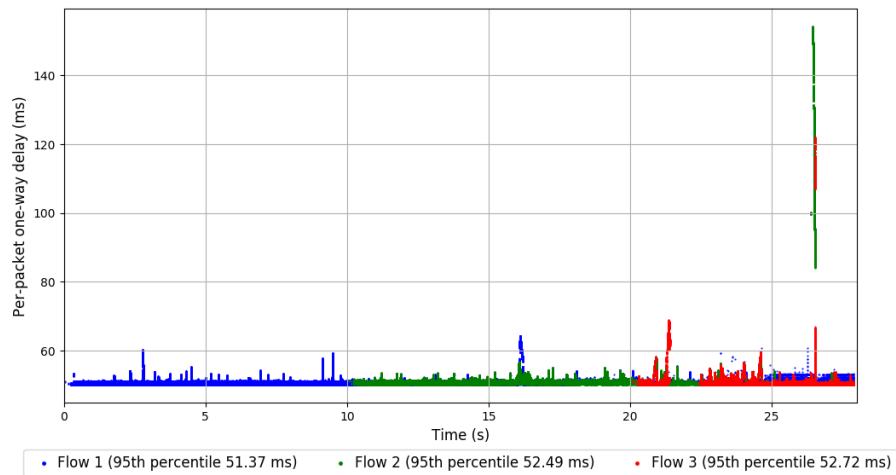
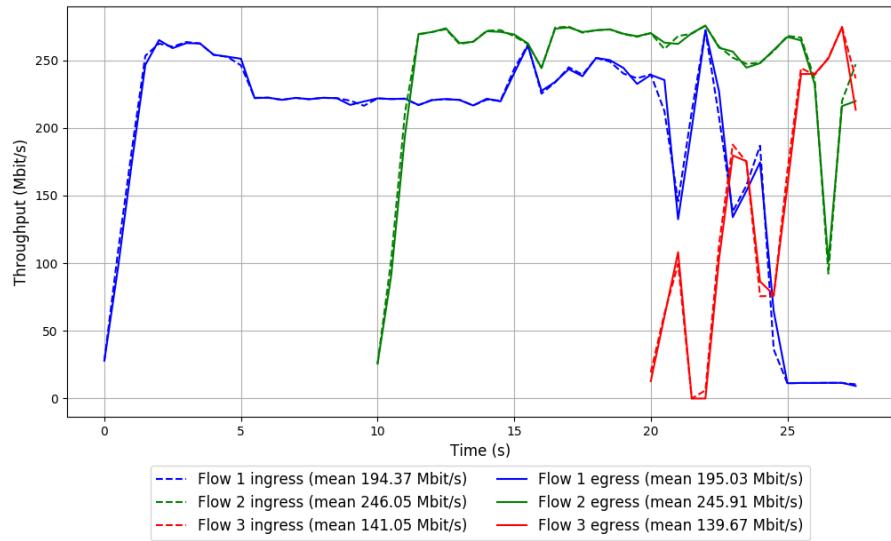
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 20:29:18

End at: 2018-01-09 20:29:48

```
# Below is generated by plot.py at 2018-01-10 01:31:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 391.71 Mbit/s
95th percentile per-packet one-way delay: 51.937 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 195.03 Mbit/s
95th percentile per-packet one-way delay: 51.370 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 245.91 Mbit/s
95th percentile per-packet one-way delay: 52.491 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 139.67 Mbit/s
95th percentile per-packet one-way delay: 52.720 ms
Loss rate: 2.27%
```

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



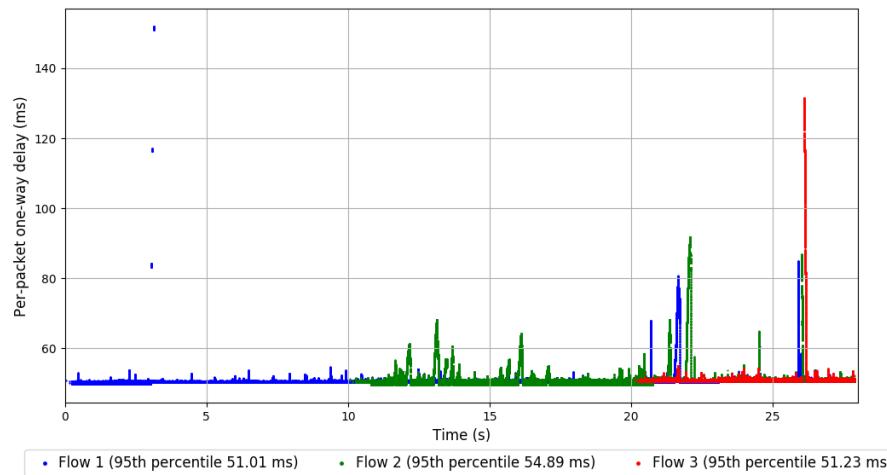
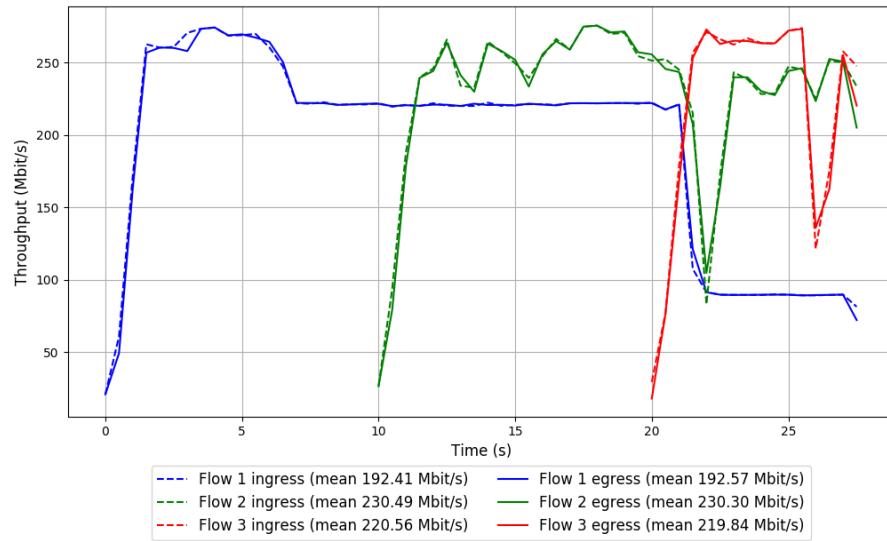
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 20:43:16

End at: 2018-01-09 20:43:46

```
# Below is generated by plot.py at 2018-01-10 01:31:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.59 Mbit/s
95th percentile per-packet one-way delay: 51.666 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 192.57 Mbit/s
95th percentile per-packet one-way delay: 51.014 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 230.30 Mbit/s
95th percentile per-packet one-way delay: 54.890 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 219.84 Mbit/s
95th percentile per-packet one-way delay: 51.235 ms
Loss rate: 1.61%
```

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



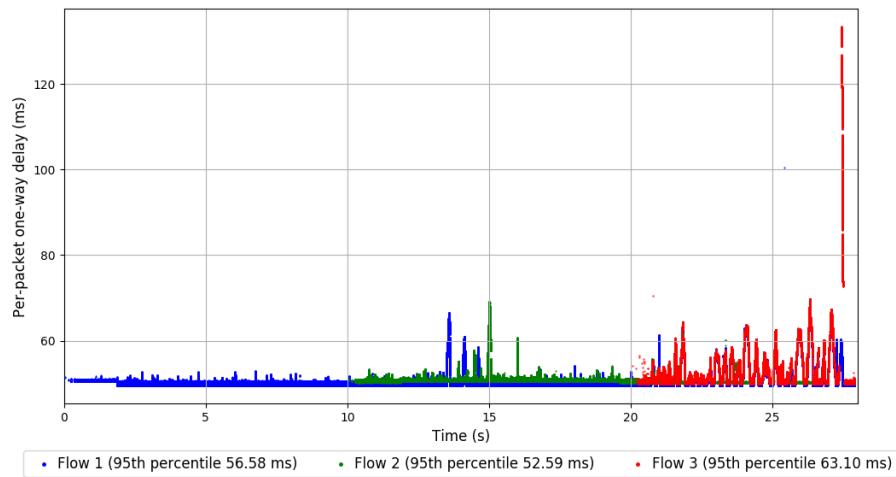
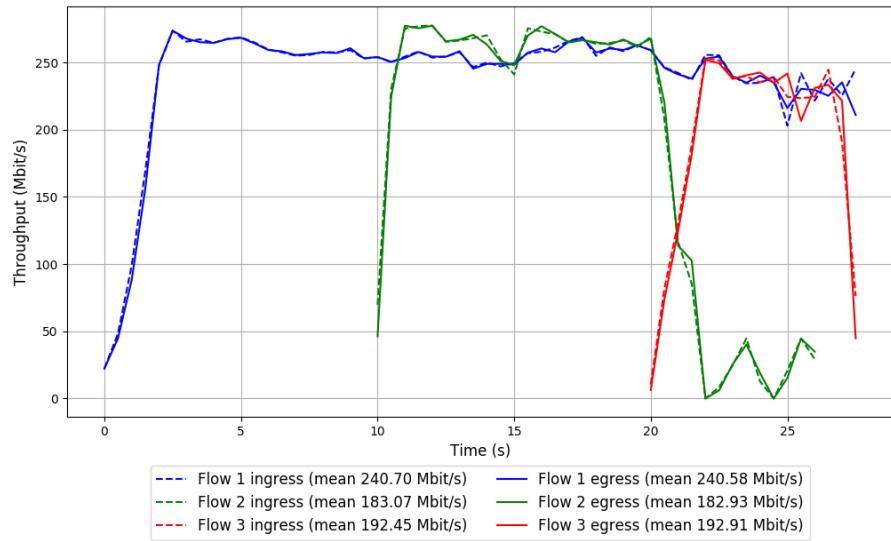
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 20:57:17

End at: 2018-01-09 20:57:47

```
# Below is generated by plot.py at 2018-01-10 01:31:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.91 Mbit/s
95th percentile per-packet one-way delay: 57.606 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 240.58 Mbit/s
95th percentile per-packet one-way delay: 56.577 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 182.93 Mbit/s
95th percentile per-packet one-way delay: 52.585 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 192.91 Mbit/s
95th percentile per-packet one-way delay: 63.096 ms
Loss rate: 1.05%
```

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



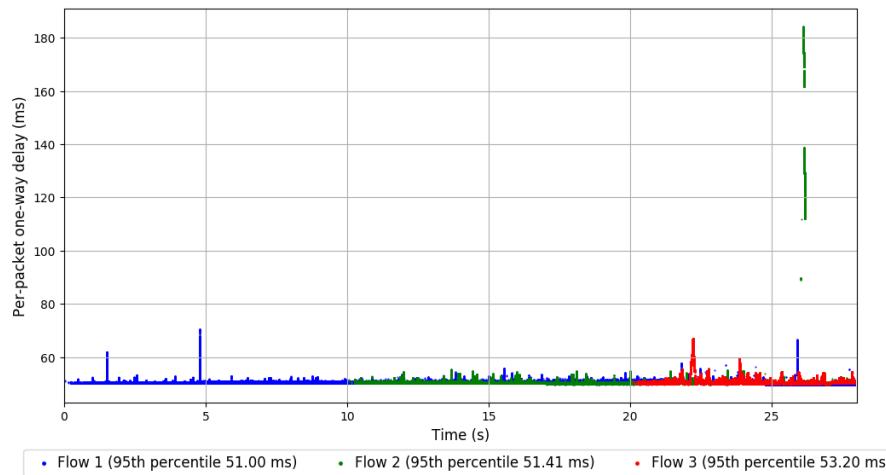
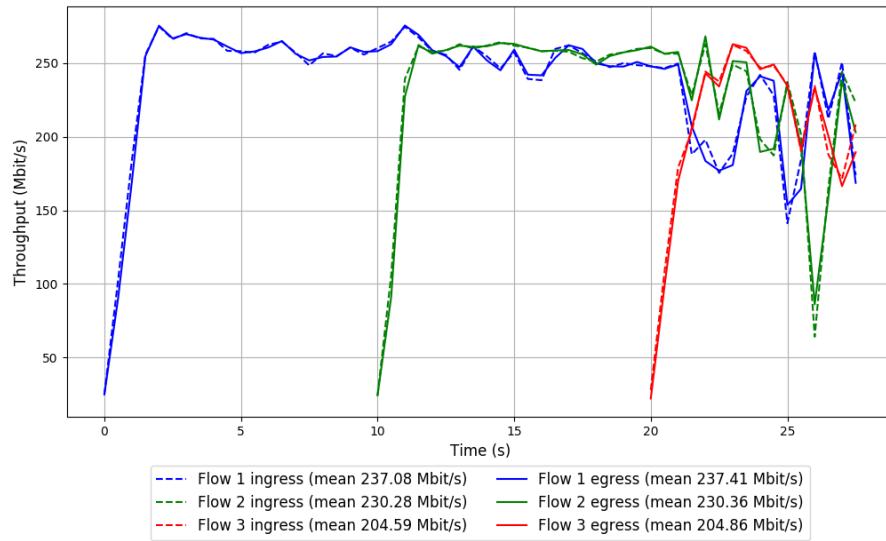
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 21:11:32

End at: 2018-01-09 21:12:02

```
# Below is generated by plot.py at 2018-01-10 01:33:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 442.53 Mbit/s
95th percentile per-packet one-way delay: 51.444 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 237.41 Mbit/s
95th percentile per-packet one-way delay: 50.999 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 230.36 Mbit/s
95th percentile per-packet one-way delay: 51.411 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 204.86 Mbit/s
95th percentile per-packet one-way delay: 53.196 ms
Loss rate: 1.14%
```

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



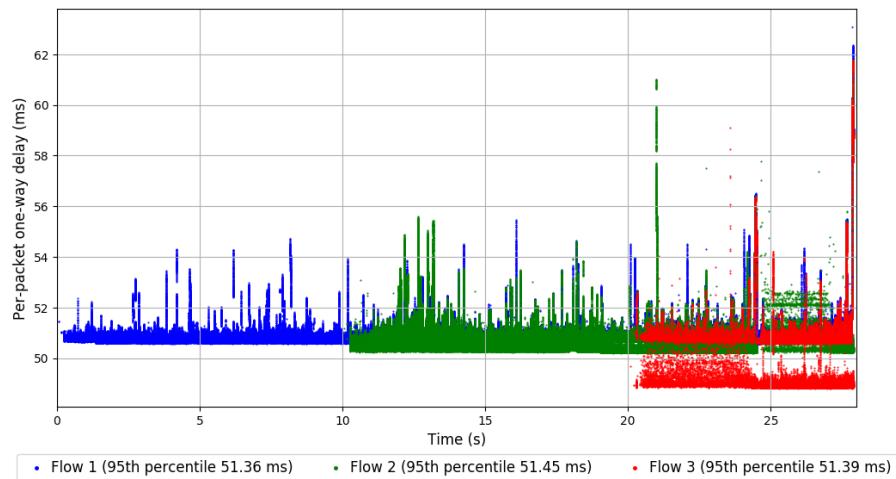
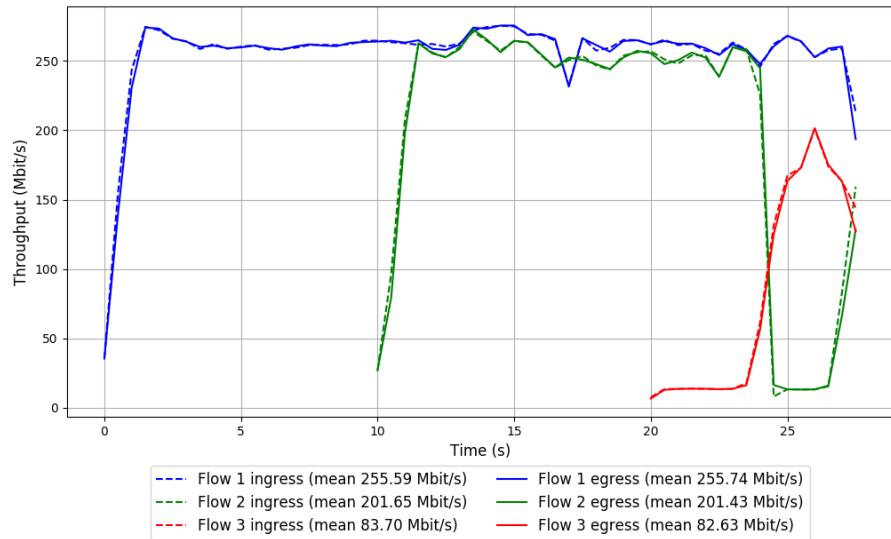
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 21:25:57

End at: 2018-01-09 21:26:27

```
# Below is generated by plot.py at 2018-01-10 01:33:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 407.98 Mbit/s
95th percentile per-packet one-way delay: 51.390 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 255.74 Mbit/s
95th percentile per-packet one-way delay: 51.364 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 201.43 Mbit/s
95th percentile per-packet one-way delay: 51.454 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 51.386 ms
Loss rate: 2.54%
```

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



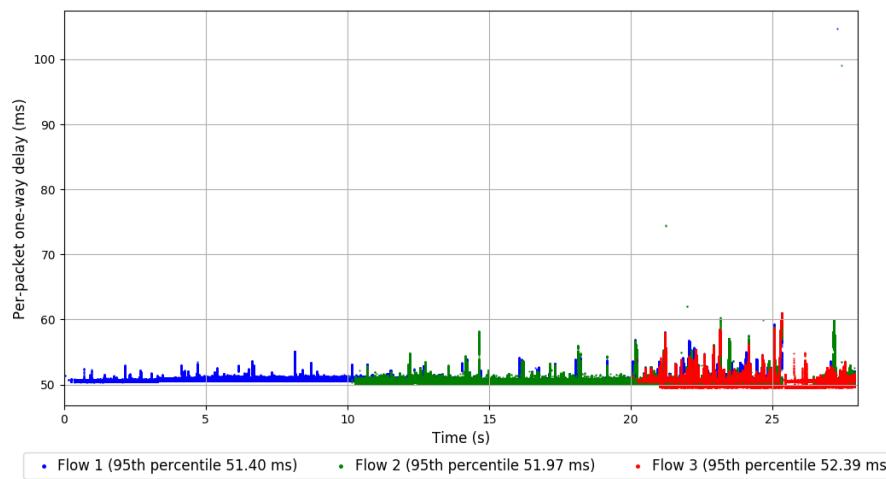
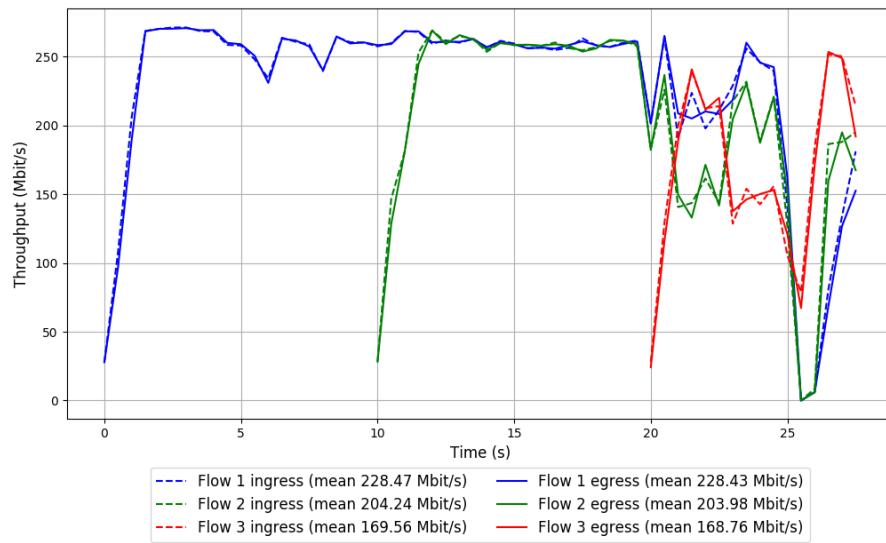
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 21:40:15

End at: 2018-01-09 21:40:45

```
# Below is generated by plot.py at 2018-01-10 01:36:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 406.53 Mbit/s
95th percentile per-packet one-way delay: 51.708 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 228.43 Mbit/s
95th percentile per-packet one-way delay: 51.404 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 203.98 Mbit/s
95th percentile per-packet one-way delay: 51.972 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 168.76 Mbit/s
95th percentile per-packet one-way delay: 52.392 ms
Loss rate: 1.73%
```

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



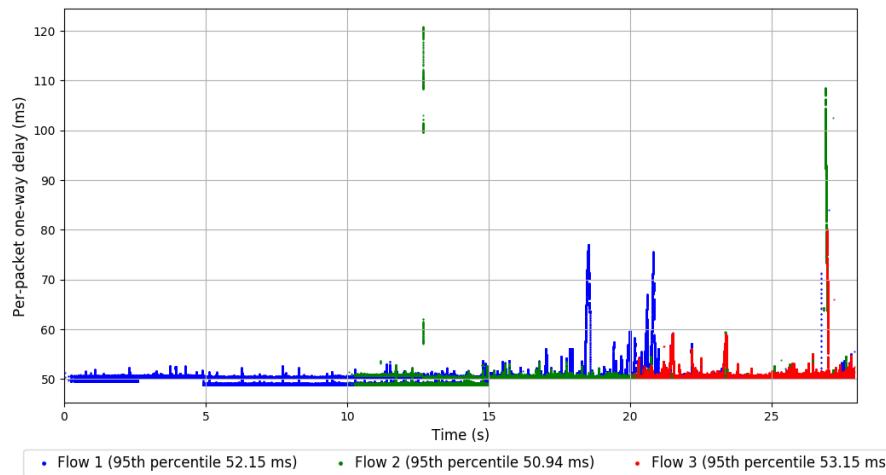
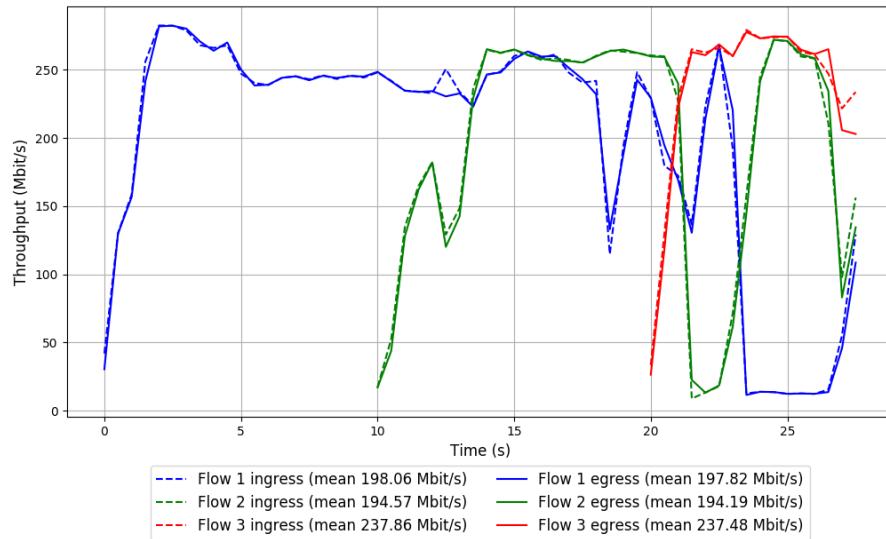
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 21:53:54

End at: 2018-01-09 21:54:24

```
# Below is generated by plot.py at 2018-01-10 01:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.97 Mbit/s
95th percentile per-packet one-way delay: 51.794 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 197.82 Mbit/s
95th percentile per-packet one-way delay: 52.148 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 194.19 Mbit/s
95th percentile per-packet one-way delay: 50.943 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 237.48 Mbit/s
95th percentile per-packet one-way delay: 53.154 ms
Loss rate: 1.45%
```

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



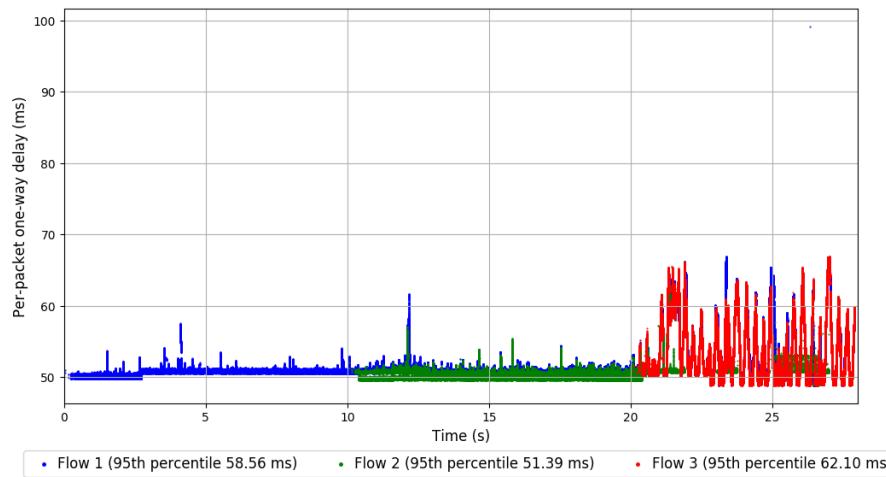
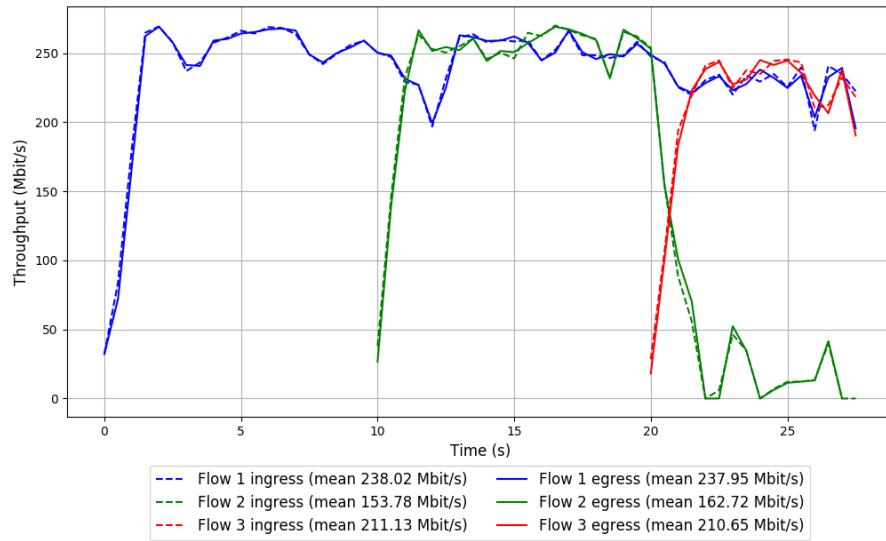
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-09 22:07:46

End at: 2018-01-09 22:08:16

```
# Below is generated by plot.py at 2018-01-10 01:42:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.91 Mbit/s
95th percentile per-packet one-way delay: 59.267 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 237.95 Mbit/s
95th percentile per-packet one-way delay: 58.558 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 162.72 Mbit/s
95th percentile per-packet one-way delay: 51.393 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 210.65 Mbit/s
95th percentile per-packet one-way delay: 62.105 ms
Loss rate: 1.51%
```

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



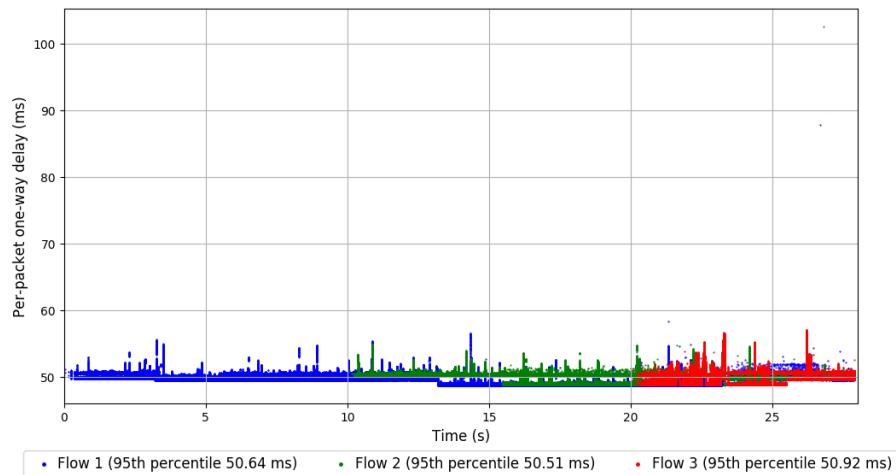
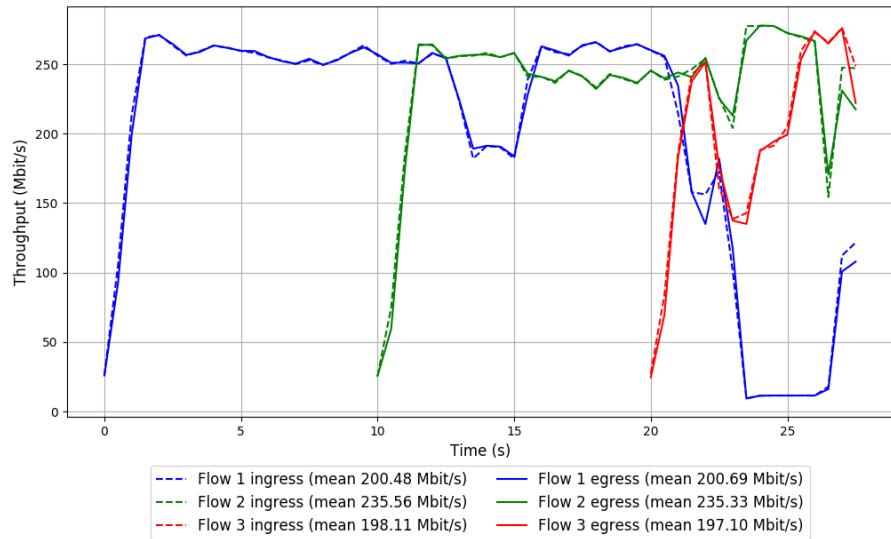
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 22:22:03

End at: 2018-01-09 22:22:33

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 406.77 Mbit/s
95th percentile per-packet one-way delay: 50.678 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 200.69 Mbit/s
95th percentile per-packet one-way delay: 50.640 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 235.33 Mbit/s
95th percentile per-packet one-way delay: 50.514 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 197.10 Mbit/s
95th percentile per-packet one-way delay: 50.925 ms
Loss rate: 1.77%
```

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

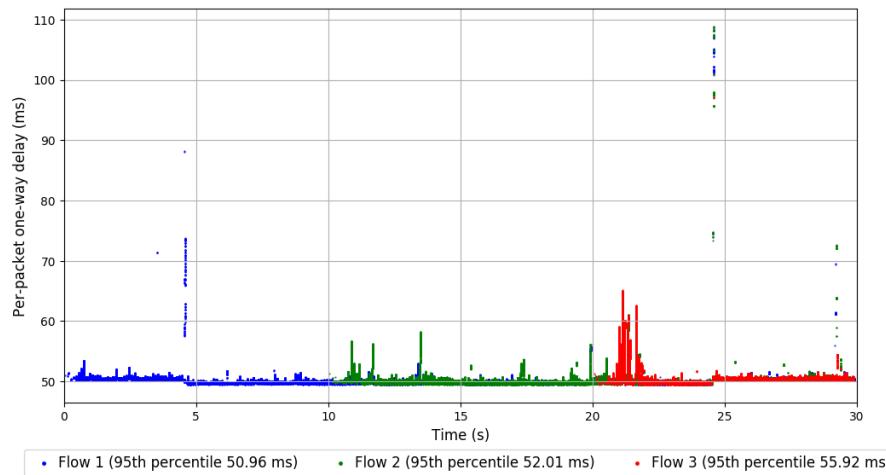
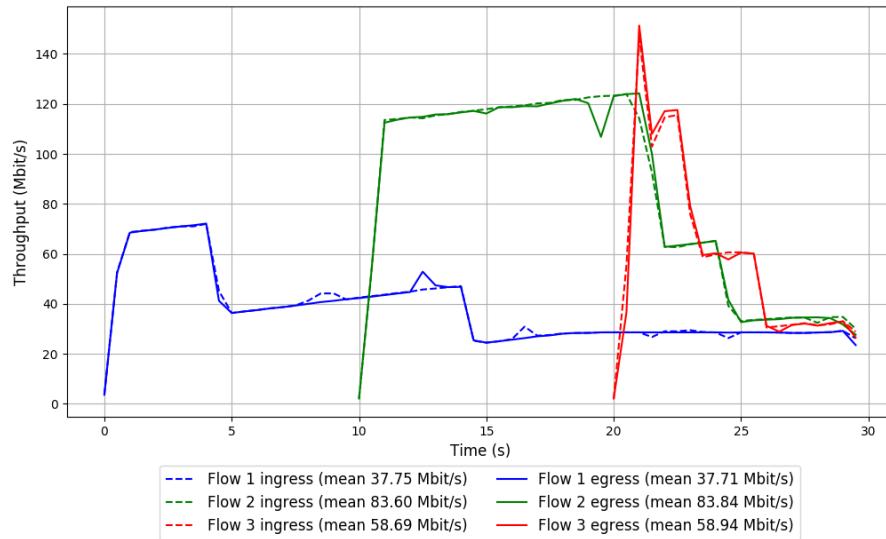


```
Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 20:09:26
End at: 2018-01-09 20:09:56

# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.75 Mbit/s
95th percentile per-packet one-way delay: 51.868 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 50.958 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 83.84 Mbit/s
95th percentile per-packet one-way delay: 52.006 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 58.94 Mbit/s
95th percentile per-packet one-way delay: 55.924 ms
Loss rate: 0.62%
```

Run 1: Report of TCP Vegas — Data Link



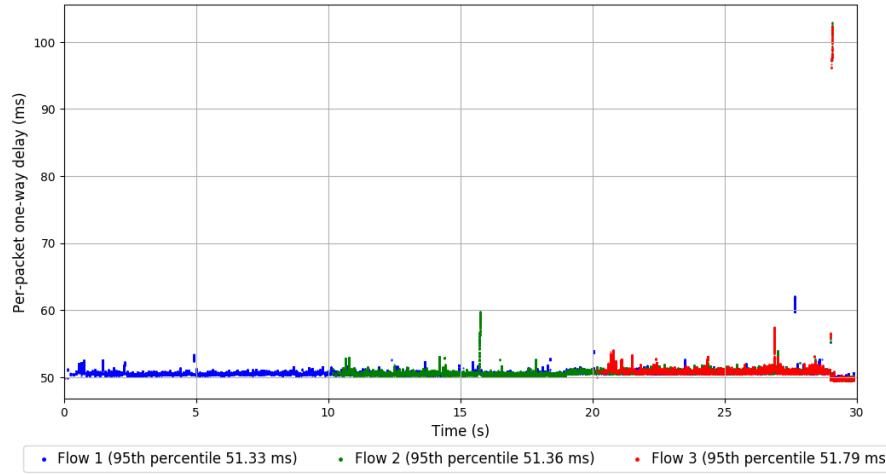
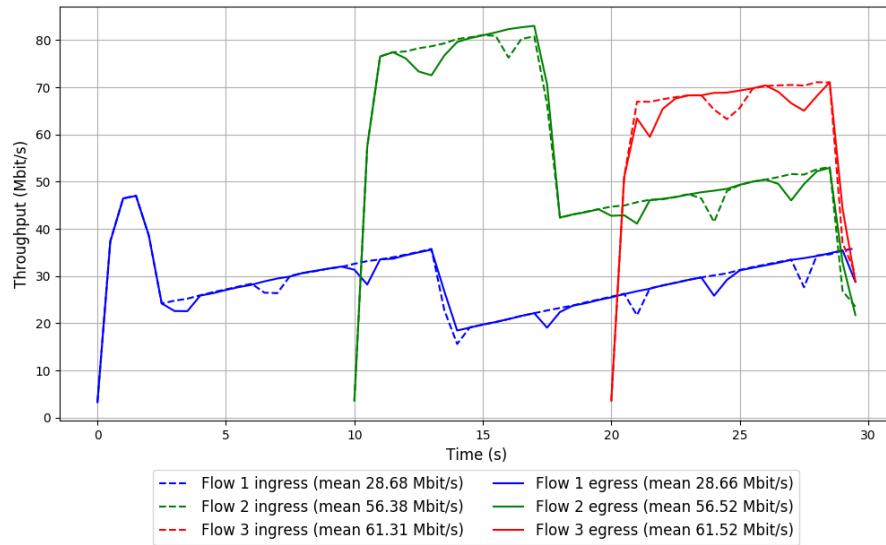
Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 20:23:42

End at: 2018-01-09 20:24:12

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 51.461 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 28.66 Mbit/s
95th percentile per-packet one-way delay: 51.326 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 56.52 Mbit/s
95th percentile per-packet one-way delay: 51.357 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 61.52 Mbit/s
95th percentile per-packet one-way delay: 51.793 ms
Loss rate: 0.68%
```

Run 2: Report of TCP Vegas — Data Link



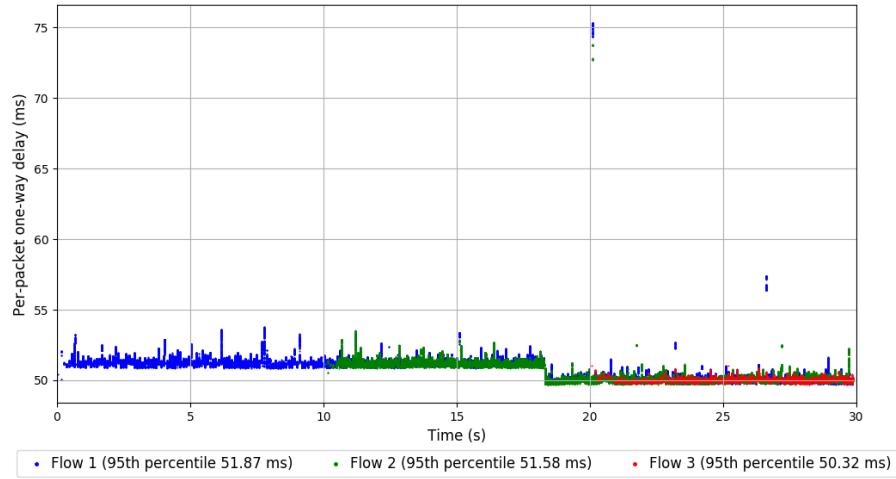
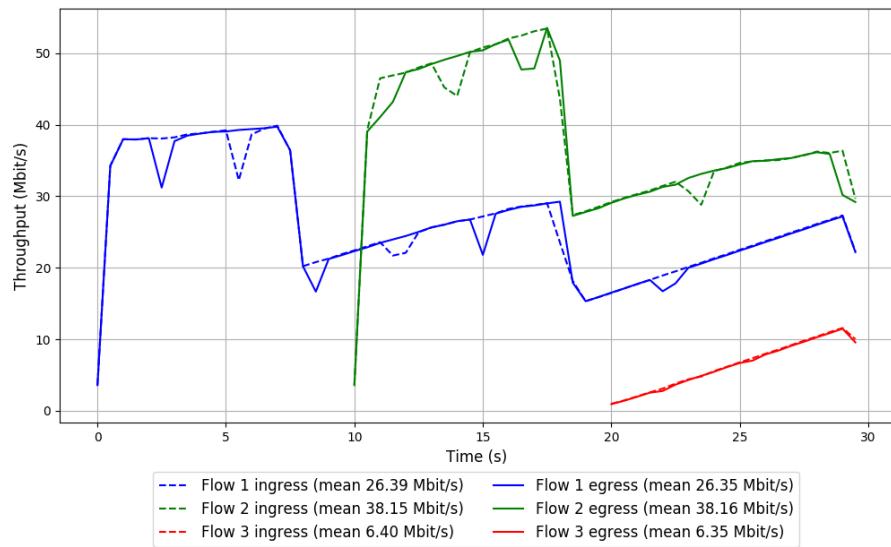
Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 20:37:12

End at: 2018-01-09 20:37:42

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.78 Mbit/s
95th percentile per-packet one-way delay: 51.729 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 26.35 Mbit/s
95th percentile per-packet one-way delay: 51.869 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 51.578 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 50.316 ms
Loss rate: 1.98%
```

Run 3: Report of TCP Vegas — Data Link



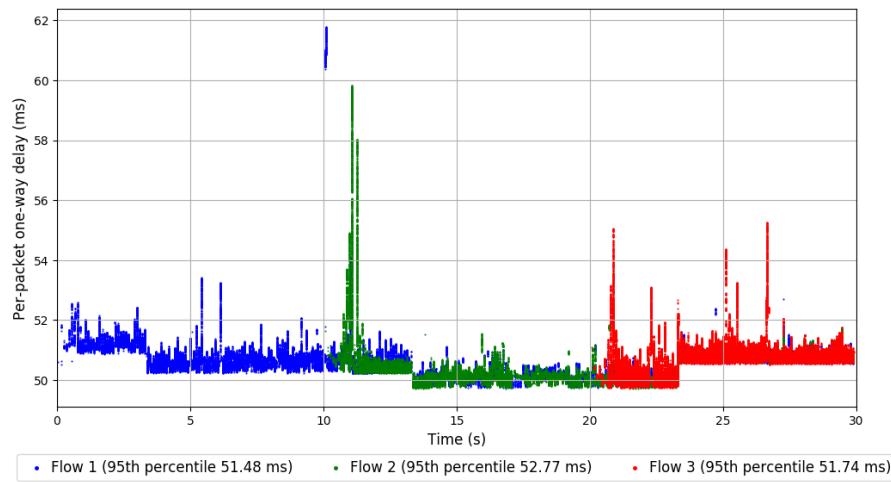
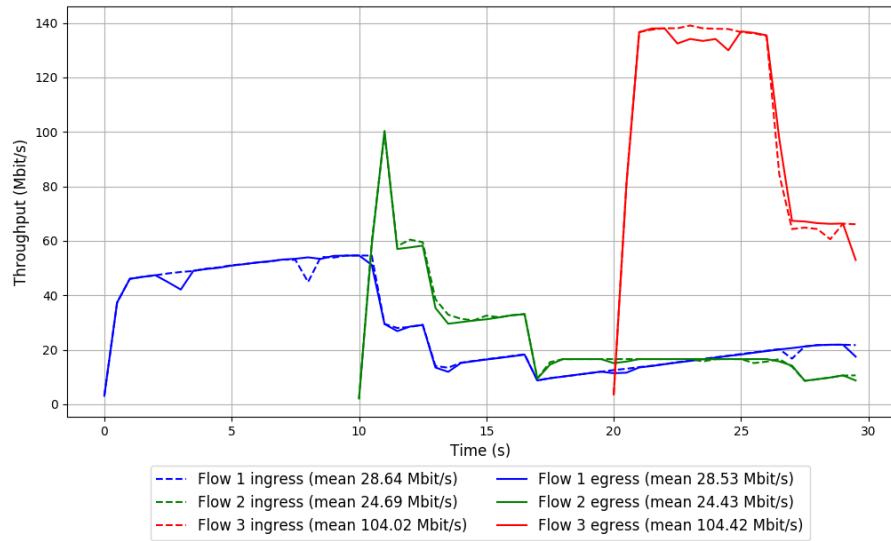
Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 20:51:27

End at: 2018-01-09 20:51:57

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.14 Mbit/s
95th percentile per-packet one-way delay: 51.658 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 28.53 Mbit/s
95th percentile per-packet one-way delay: 51.483 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 52.767 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 104.42 Mbit/s
95th percentile per-packet one-way delay: 51.741 ms
Loss rate: 0.64%
```

Run 4: Report of TCP Vegas — Data Link



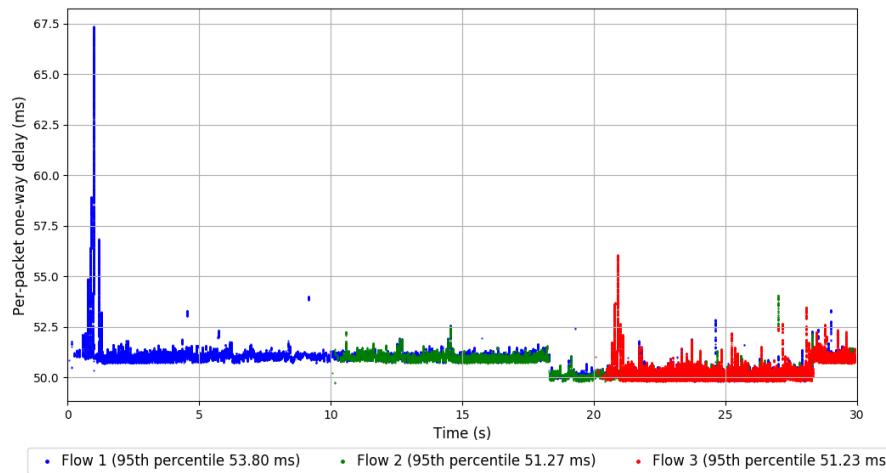
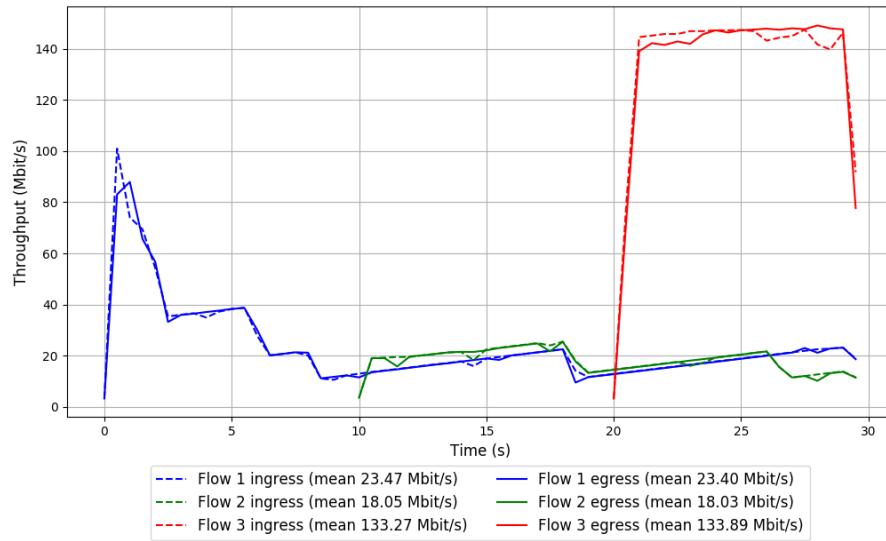
Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 21:05:32

End at: 2018-01-09 21:06:02

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 51.517 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 53.798 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 18.03 Mbit/s
95th percentile per-packet one-way delay: 51.270 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 133.89 Mbit/s
95th percentile per-packet one-way delay: 51.233 ms
Loss rate: 0.56%
```

Run 5: Report of TCP Vegas — Data Link



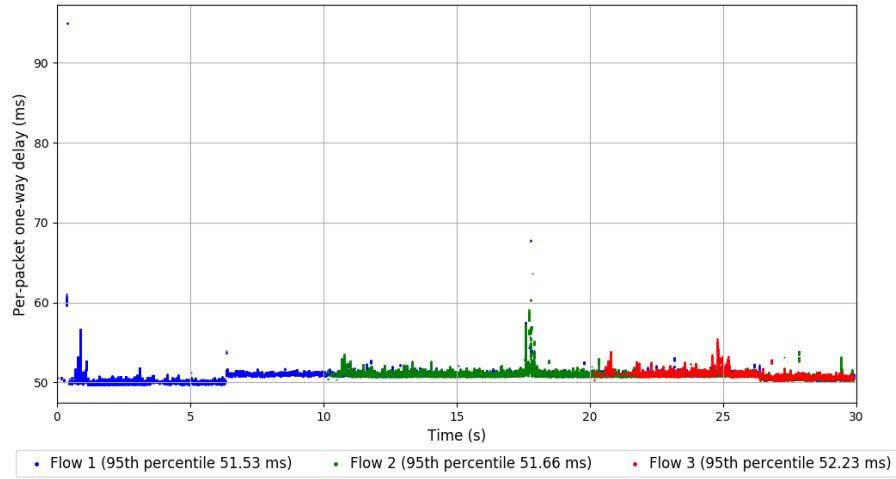
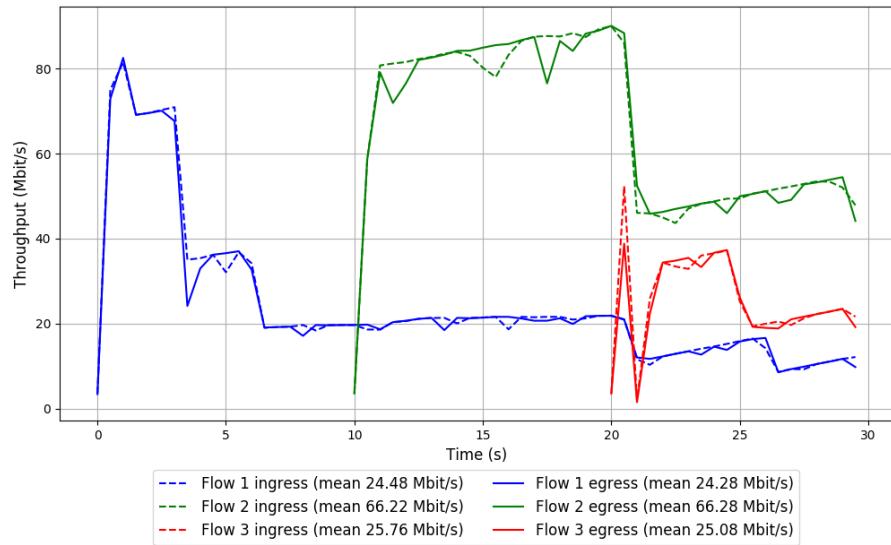
Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 21:19:54

End at: 2018-01-09 21:20:24

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.54 Mbit/s
95th percentile per-packet one-way delay: 51.694 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 51.534 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 51.656 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 52.227 ms
Loss rate: 3.64%
```

Run 6: Report of TCP Vegas — Data Link



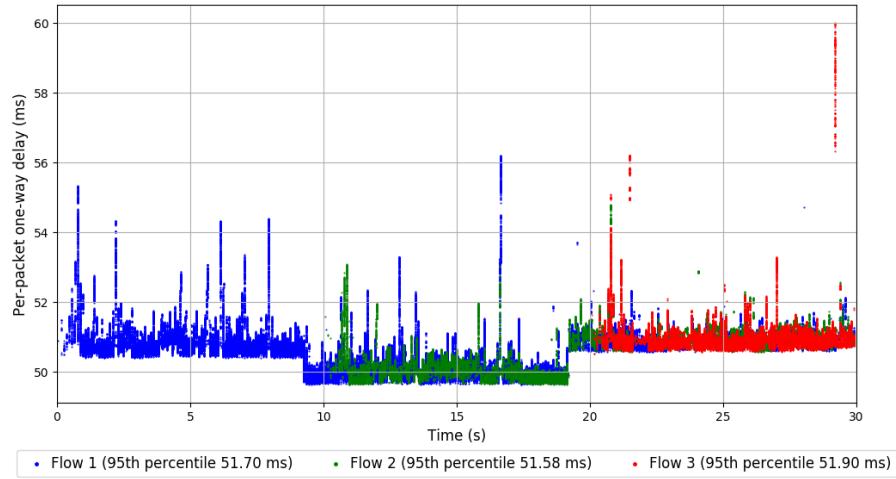
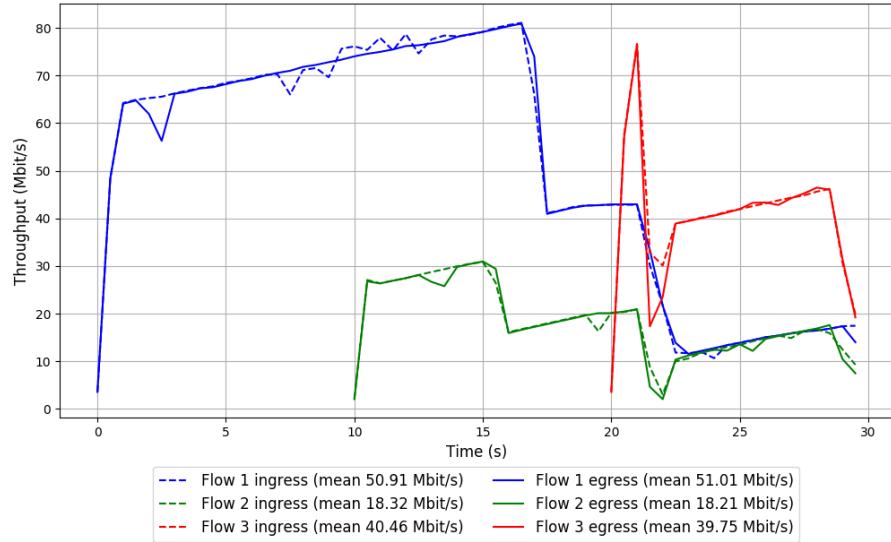
Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 21:34:12

End at: 2018-01-09 21:34:42

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.19 Mbit/s
95th percentile per-packet one-way delay: 51.714 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 51.01 Mbit/s
95th percentile per-packet one-way delay: 51.702 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 18.21 Mbit/s
95th percentile per-packet one-way delay: 51.580 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 39.75 Mbit/s
95th percentile per-packet one-way delay: 51.899 ms
Loss rate: 2.74%
```

Run 7: Report of TCP Vegas — Data Link



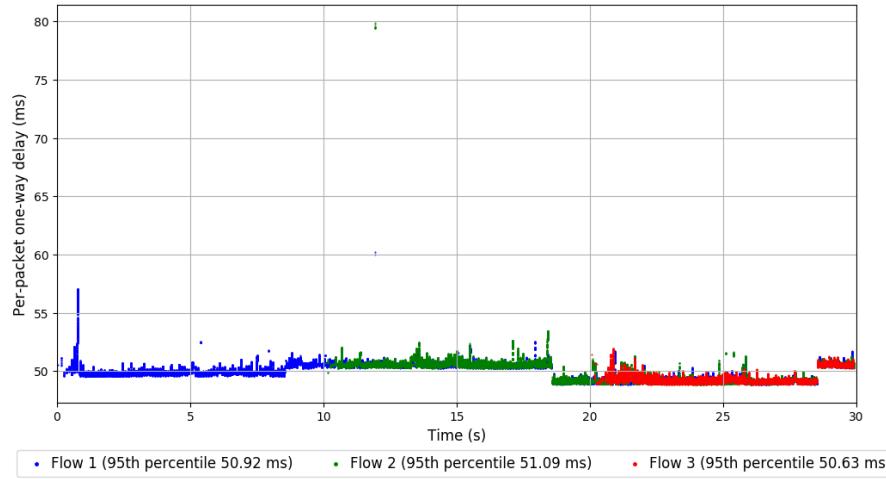
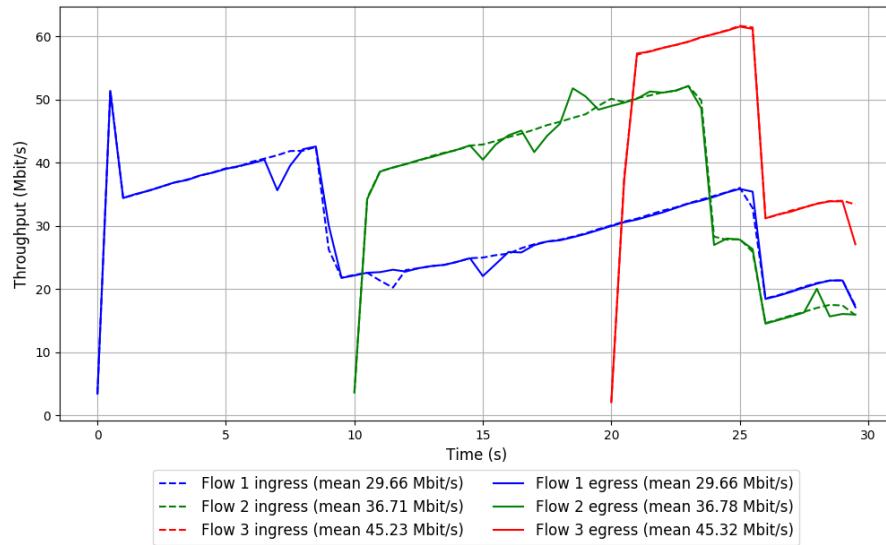
Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 21:48:32

End at: 2018-01-09 21:49:02

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.99 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 29.66 Mbit/s
95th percentile per-packet one-way delay: 50.921 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 51.089 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 45.32 Mbit/s
95th percentile per-packet one-way delay: 50.634 ms
Loss rate: 0.83%
```

Run 8: Report of TCP Vegas — Data Link



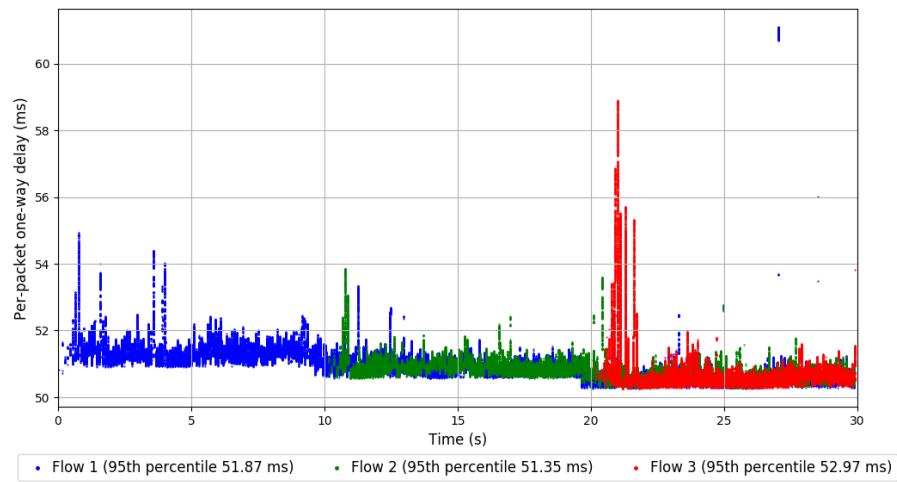
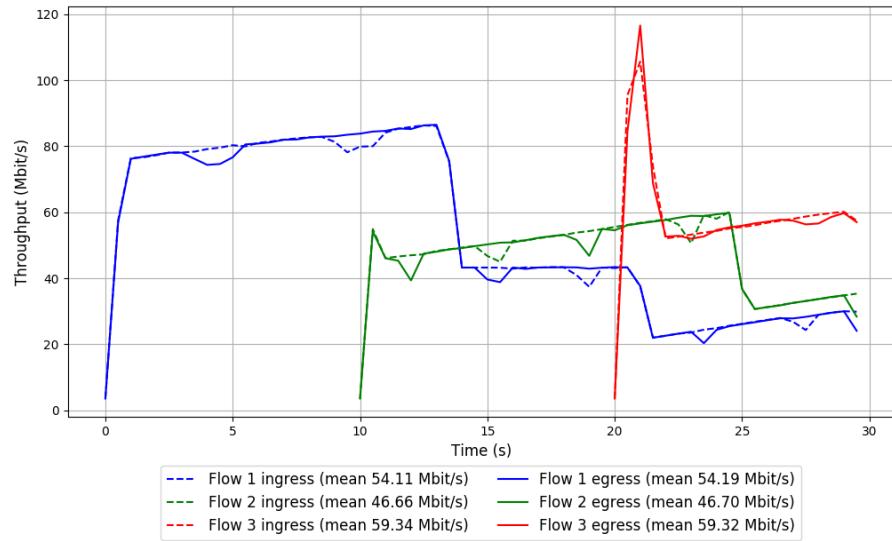
Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 22:01:51

End at: 2018-01-09 22:02:21

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.67 Mbit/s
95th percentile per-packet one-way delay: 51.811 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 54.19 Mbit/s
95th percentile per-packet one-way delay: 51.865 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 46.70 Mbit/s
95th percentile per-packet one-way delay: 51.354 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: 52.969 ms
Loss rate: 1.03%
```

Run 9: Report of TCP Vegas — Data Link



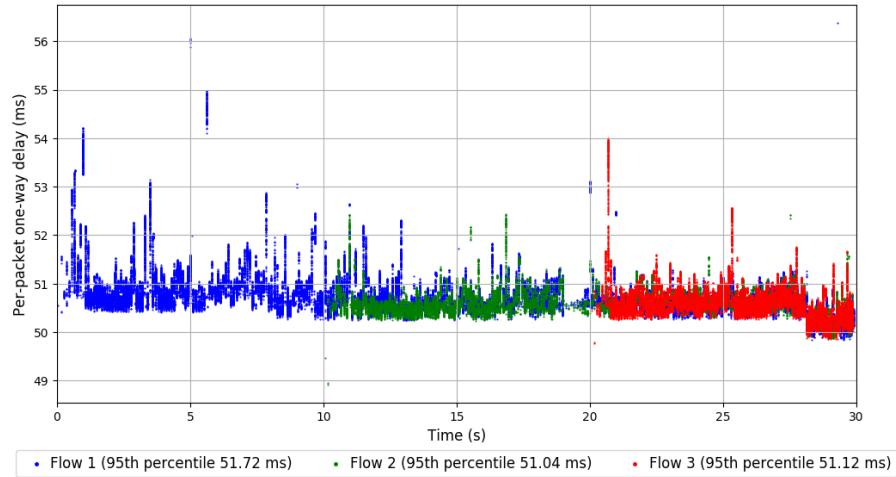
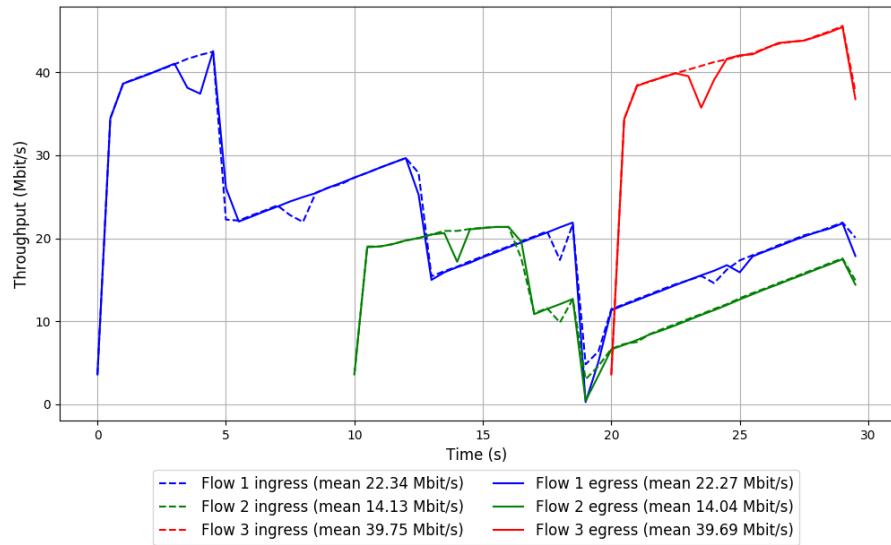
Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 22:16:03

End at: 2018-01-09 22:16:33

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.66 Mbit/s
95th percentile per-packet one-way delay: 51.398 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 22.27 Mbit/s
95th percentile per-packet one-way delay: 51.721 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 14.04 Mbit/s
95th percentile per-packet one-way delay: 51.036 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 51.121 ms
Loss rate: 1.17%
```

Run 10: Report of TCP Vegas — Data Link

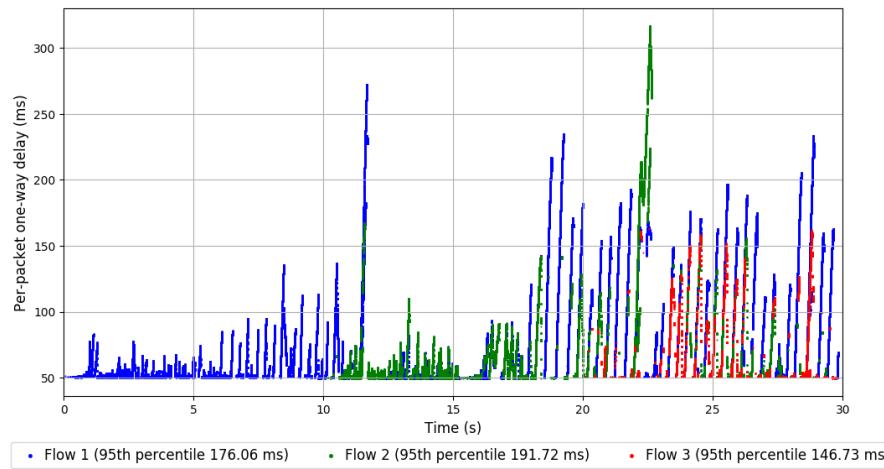
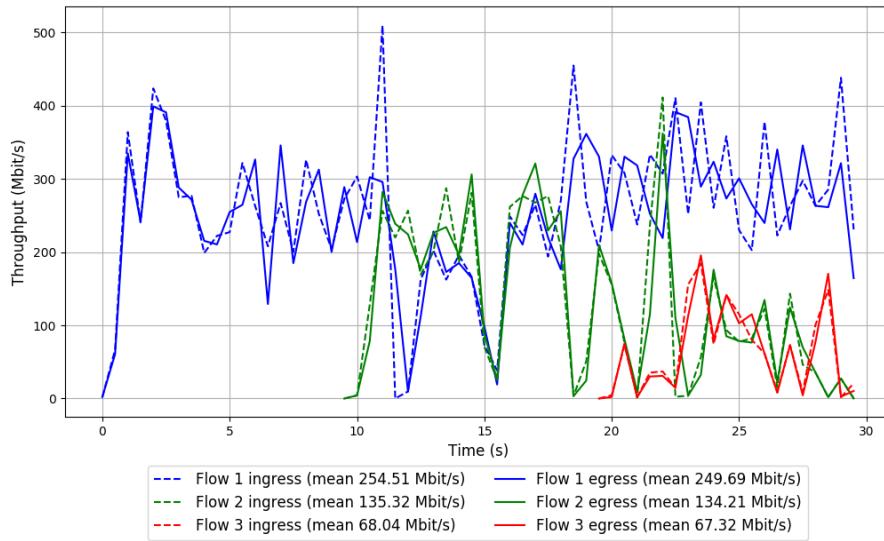


```
Run 1: Statistics of Verus

Start at: 2018-01-09 20:10:51
End at: 2018-01-09 20:11:21

# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 361.02 Mbit/s
95th percentile per-packet one-way delay: 177.520 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 249.69 Mbit/s
95th percentile per-packet one-way delay: 176.062 ms
Loss rate: 2.24%
-- Flow 2:
Average throughput: 134.21 Mbit/s
95th percentile per-packet one-way delay: 191.715 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 67.32 Mbit/s
95th percentile per-packet one-way delay: 146.733 ms
Loss rate: 2.20%
```

Run 1: Report of Verus — Data Link



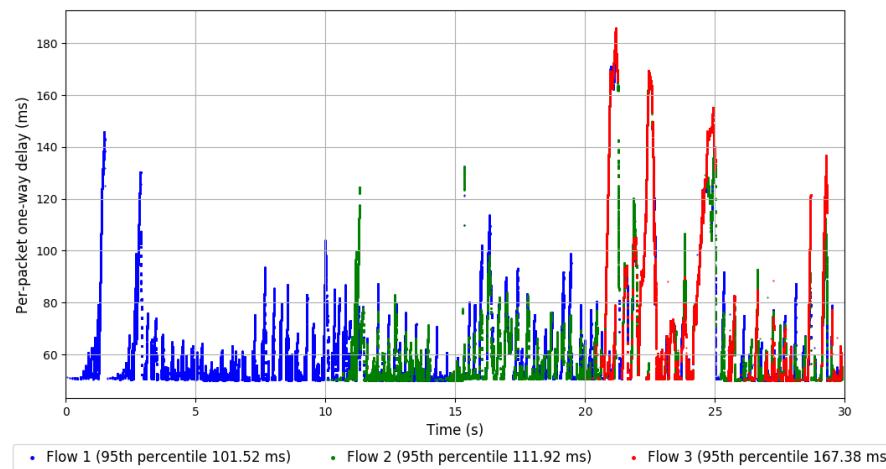
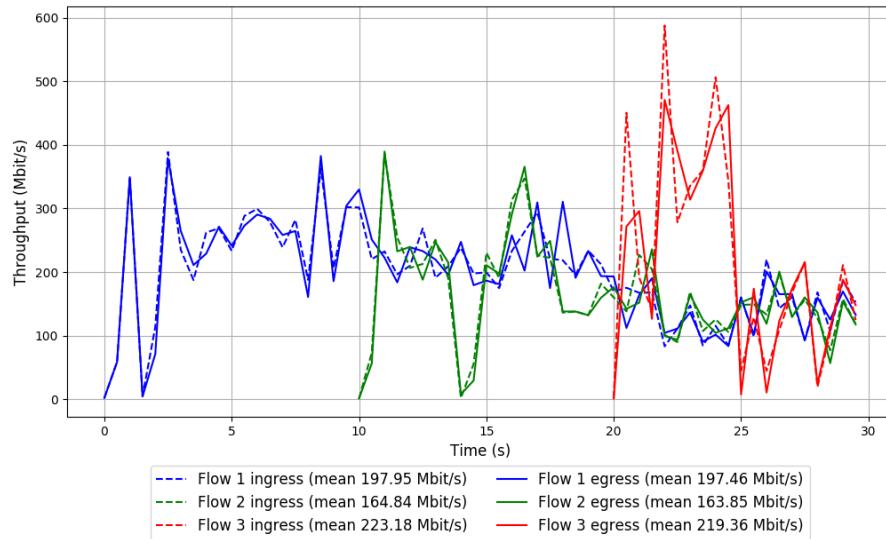
Run 2: Statistics of Verus

Start at: 2018-01-09 20:25:05

End at: 2018-01-09 20:25:35

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.30 Mbit/s
95th percentile per-packet one-way delay: 132.410 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 197.46 Mbit/s
95th percentile per-packet one-way delay: 101.524 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 163.85 Mbit/s
95th percentile per-packet one-way delay: 111.920 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 219.36 Mbit/s
95th percentile per-packet one-way delay: 167.380 ms
Loss rate: 1.61%
```

Run 2: Report of Verus — Data Link



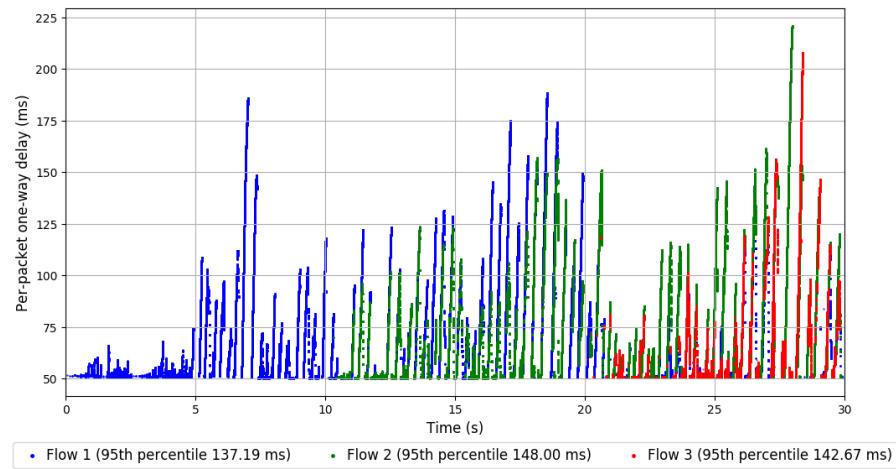
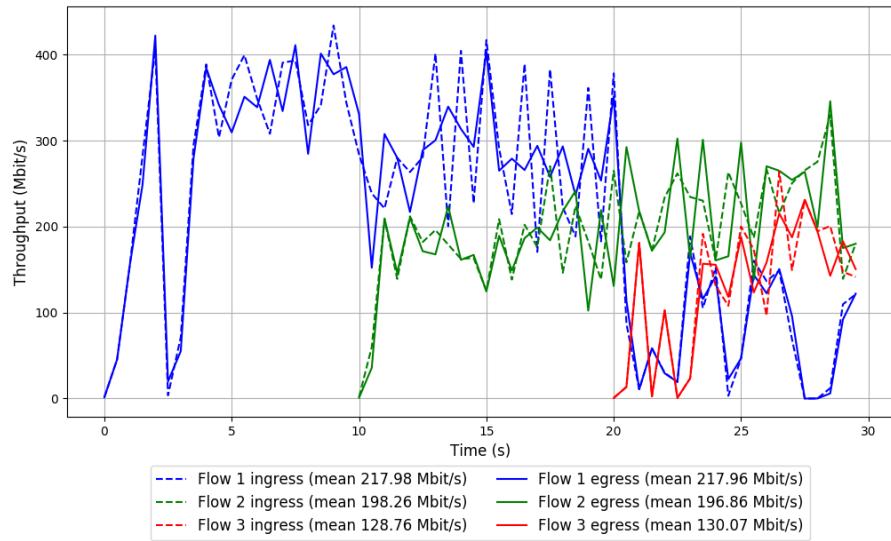
Run 3: Statistics of Verus

Start at: 2018-01-09 20:38:34

End at: 2018-01-09 20:39:04

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.86 Mbit/s
95th percentile per-packet one-way delay: 144.420 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 217.96 Mbit/s
95th percentile per-packet one-way delay: 137.189 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 196.86 Mbit/s
95th percentile per-packet one-way delay: 148.002 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 130.07 Mbit/s
95th percentile per-packet one-way delay: 142.669 ms
Loss rate: 0.94%
```

Run 3: Report of Verus — Data Link



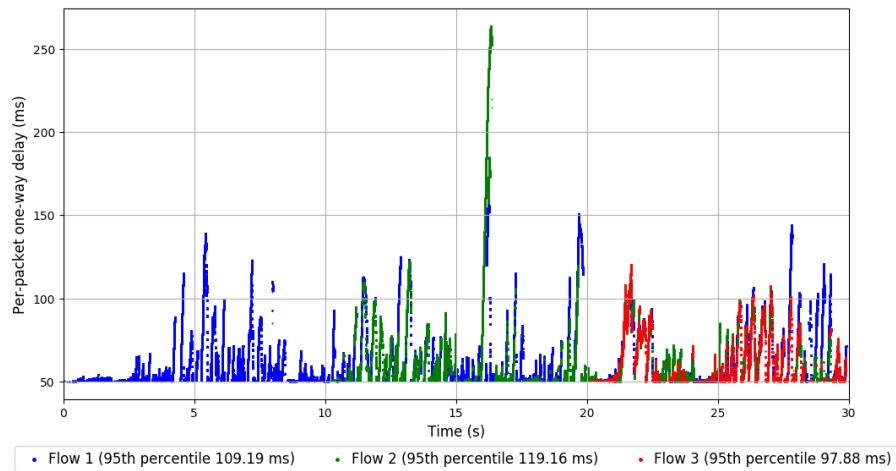
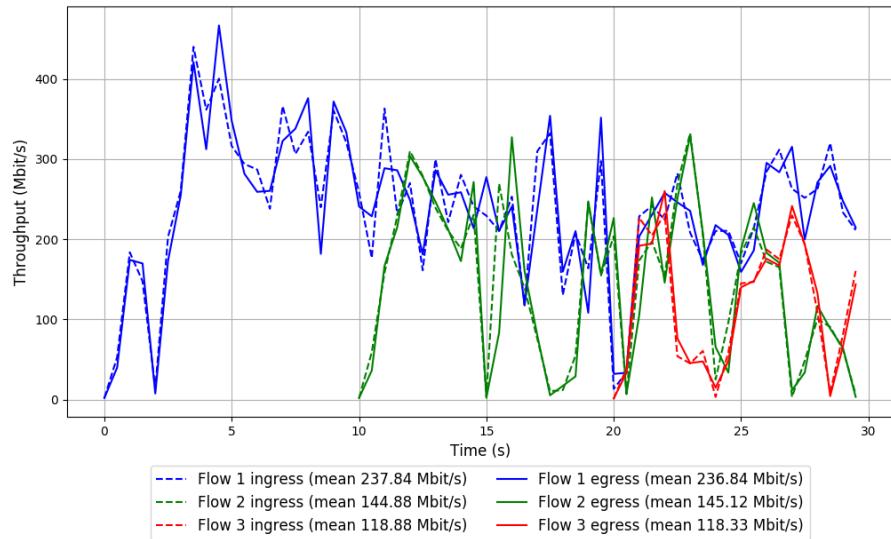
Run 4: Statistics of Verus

Start at: 2018-01-09 20:52:50

End at: 2018-01-09 20:53:20

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 371.94 Mbit/s
95th percentile per-packet one-way delay: 108.362 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 236.84 Mbit/s
95th percentile per-packet one-way delay: 109.190 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 145.12 Mbit/s
95th percentile per-packet one-way delay: 119.160 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 118.33 Mbit/s
95th percentile per-packet one-way delay: 97.881 ms
Loss rate: 1.50%
```

Run 4: Report of Verus — Data Link



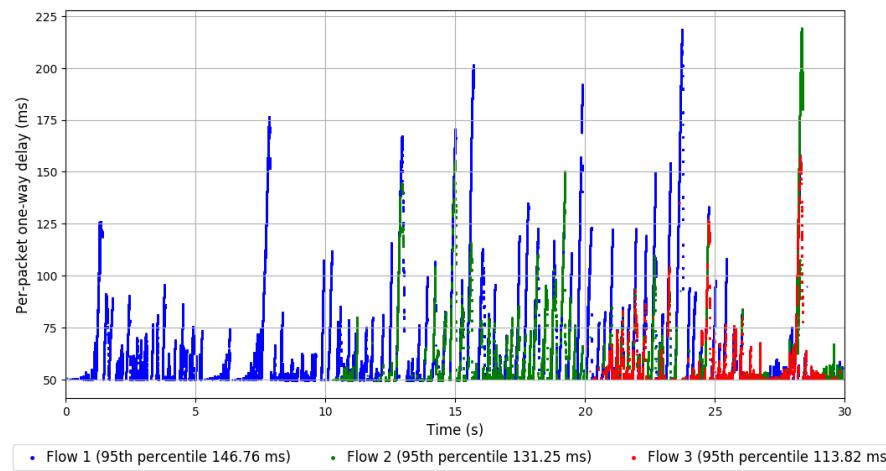
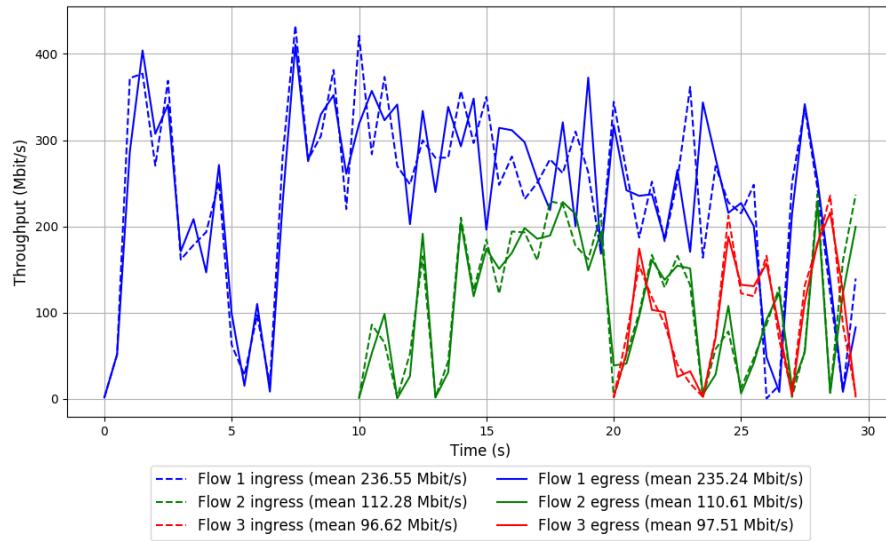
Run 5: Statistics of Verus

Start at: 2018-01-09 21:06:55

End at: 2018-01-09 21:07:25

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.52 Mbit/s
95th percentile per-packet one-way delay: 138.850 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 235.24 Mbit/s
95th percentile per-packet one-way delay: 146.762 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 110.61 Mbit/s
95th percentile per-packet one-way delay: 131.245 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 113.816 ms
Loss rate: 0.28%
```

Run 5: Report of Verus — Data Link



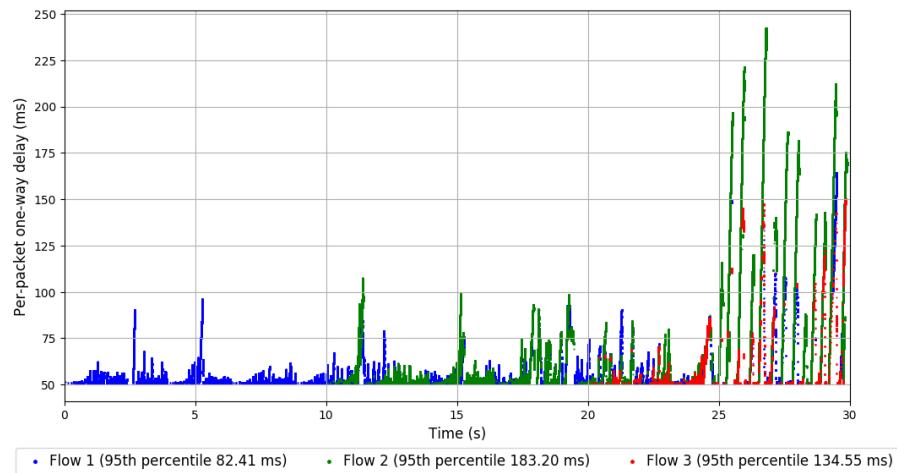
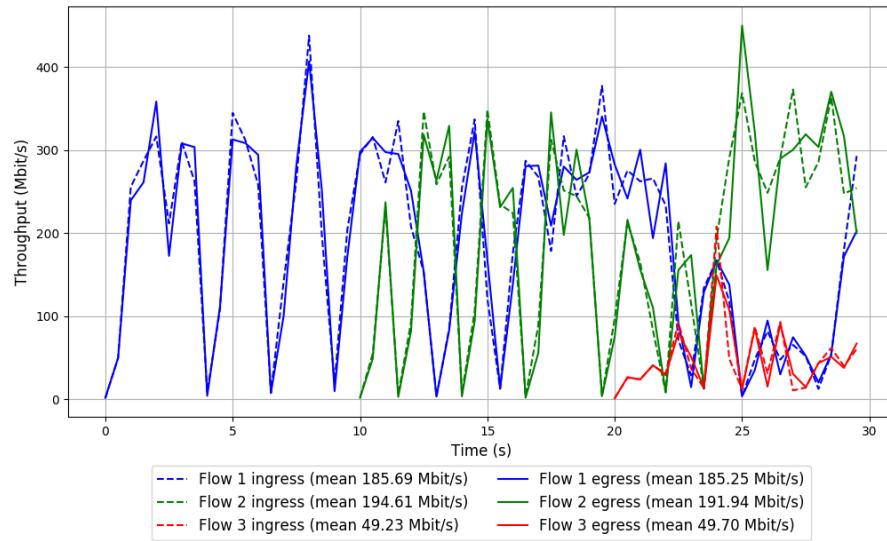
Run 6: Statistics of Verus

Start at: 2018-01-09 21:21:17

End at: 2018-01-09 21:21:47

```
# Below is generated by plot.py at 2018-01-10 01:42:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.46 Mbit/s
95th percentile per-packet one-way delay: 145.424 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 185.25 Mbit/s
95th percentile per-packet one-way delay: 82.409 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 191.94 Mbit/s
95th percentile per-packet one-way delay: 183.200 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 49.70 Mbit/s
95th percentile per-packet one-way delay: 134.551 ms
Loss rate: 0.65%
```

Run 6: Report of Verus — Data Link



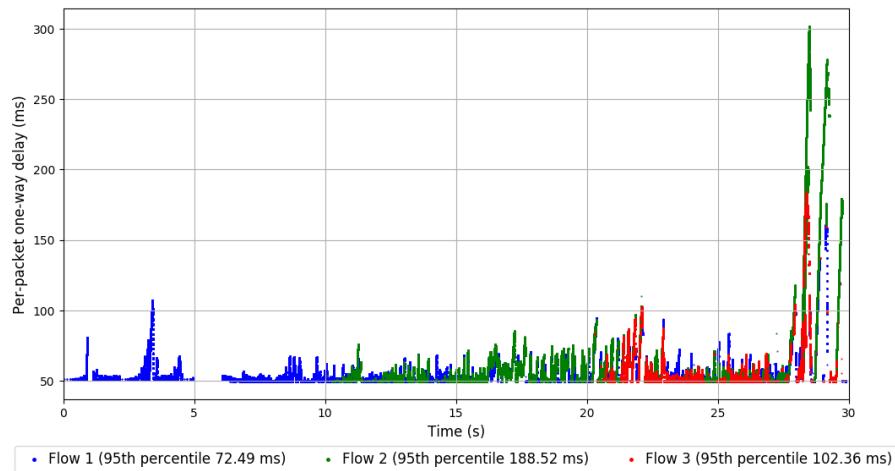
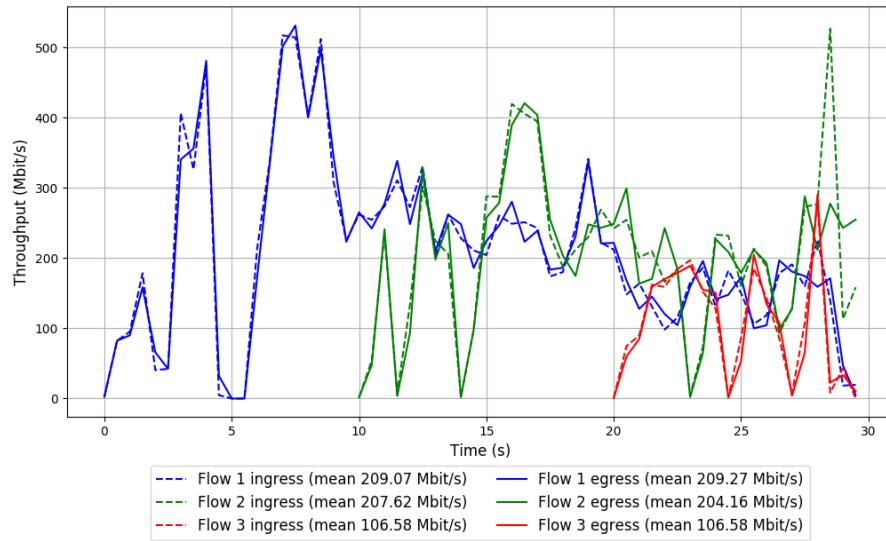
Run 7: Statistics of Verus

Start at: 2018-01-09 21:35:34

End at: 2018-01-09 21:36:04

```
# Below is generated by plot.py at 2018-01-10 01:47:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.95 Mbit/s
95th percentile per-packet one-way delay: 97.749 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 209.27 Mbit/s
95th percentile per-packet one-way delay: 72.493 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 204.16 Mbit/s
95th percentile per-packet one-way delay: 188.520 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 106.58 Mbit/s
95th percentile per-packet one-way delay: 102.357 ms
Loss rate: 1.02%
```

Run 7: Report of Verus — Data Link



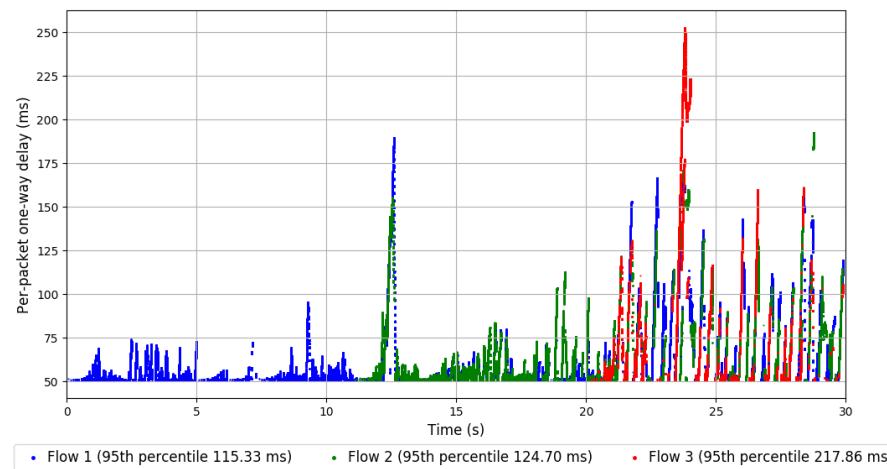
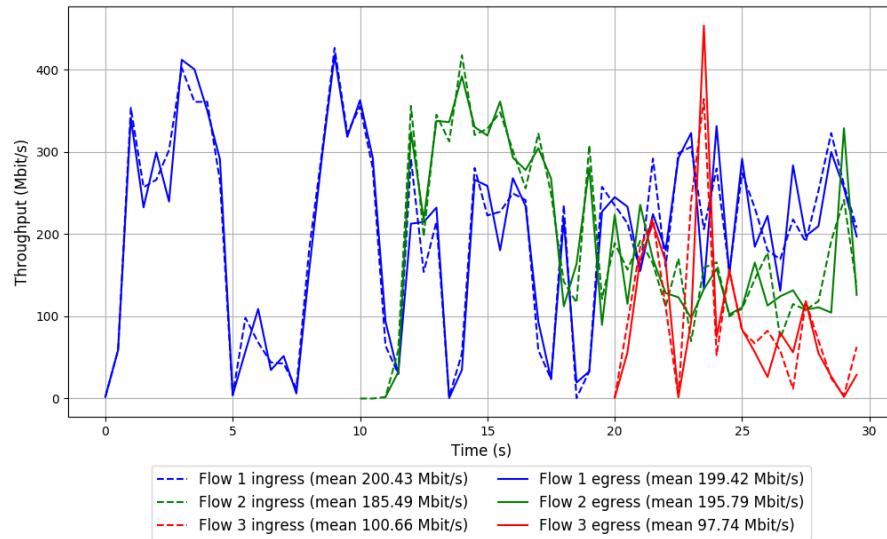
Run 8: Statistics of Verus

Start at: 2018-01-09 21:49:55

End at: 2018-01-09 21:50:25

```
# Below is generated by plot.py at 2018-01-10 01:47:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.62 Mbit/s
95th percentile per-packet one-way delay: 133.285 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 199.42 Mbit/s
95th percentile per-packet one-way delay: 115.329 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 195.79 Mbit/s
95th percentile per-packet one-way delay: 124.696 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 97.74 Mbit/s
95th percentile per-packet one-way delay: 217.864 ms
Loss rate: 4.21%
```

Run 8: Report of Verus — Data Link



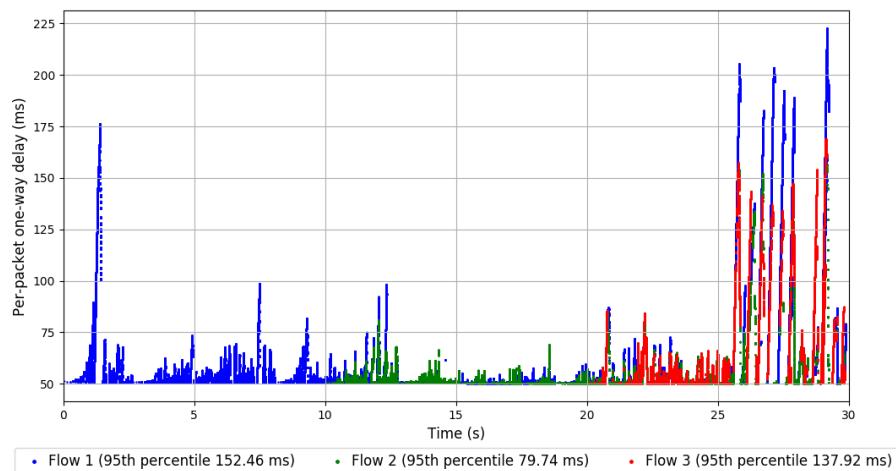
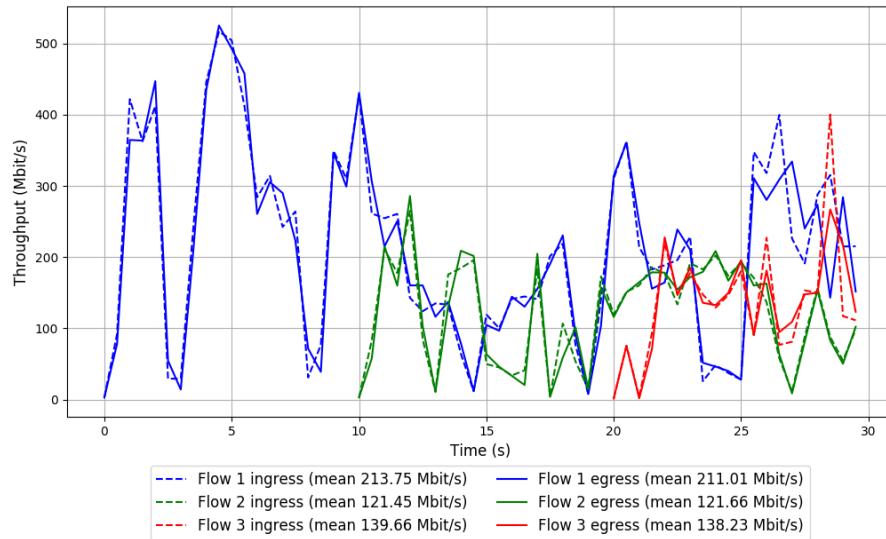
Run 9: Statistics of Verus

Start at: 2018-01-09 22:03:15

End at: 2018-01-09 22:03:45

```
# Below is generated by plot.py at 2018-01-10 01:47:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.97 Mbit/s
95th percentile per-packet one-way delay: 135.832 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 211.01 Mbit/s
95th percentile per-packet one-way delay: 152.461 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 121.66 Mbit/s
95th percentile per-packet one-way delay: 79.741 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 138.23 Mbit/s
95th percentile per-packet one-way delay: 137.918 ms
Loss rate: 1.00%
```

Run 9: Report of Verus — Data Link



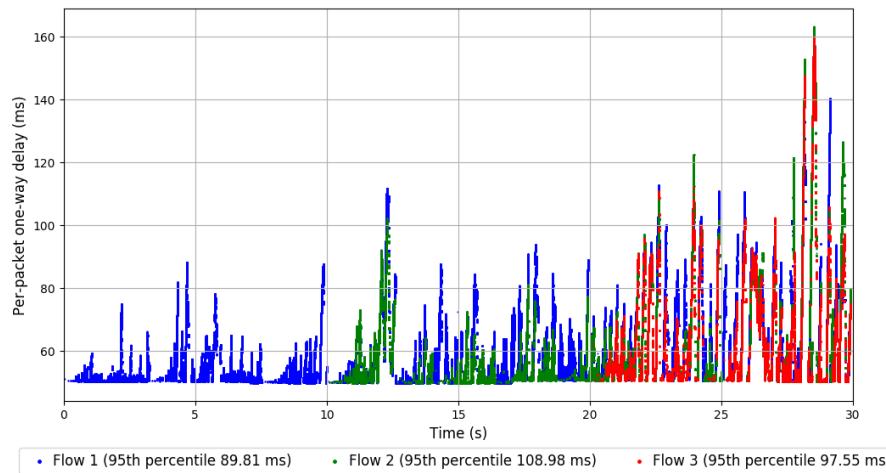
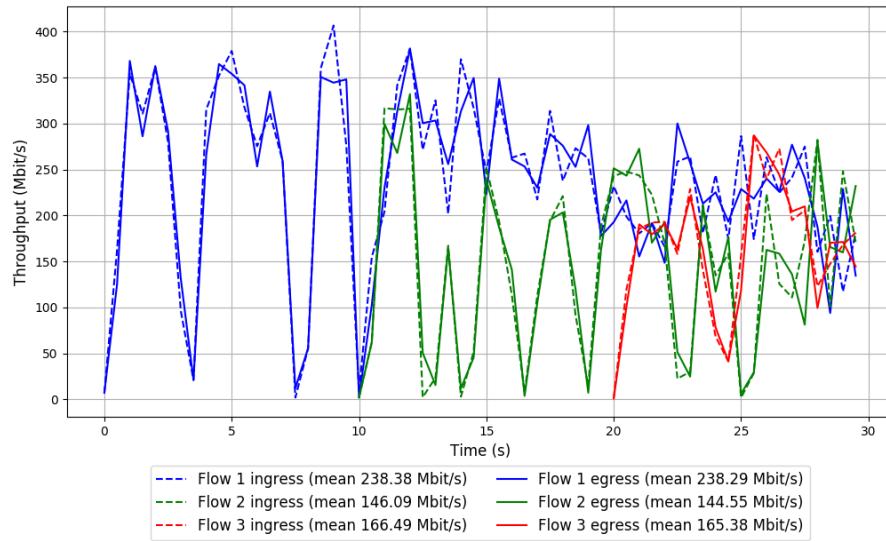
Run 10: Statistics of Verus

Start at: 2018-01-09 22:17:24

End at: 2018-01-09 22:17:54

```
# Below is generated by plot.py at 2018-01-10 01:48:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.37 Mbit/s
95th percentile per-packet one-way delay: 95.740 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 238.29 Mbit/s
95th percentile per-packet one-way delay: 89.812 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 144.55 Mbit/s
95th percentile per-packet one-way delay: 108.980 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 165.38 Mbit/s
95th percentile per-packet one-way delay: 97.545 ms
Loss rate: 1.80%
```

Run 10: Report of Verus — Data Link

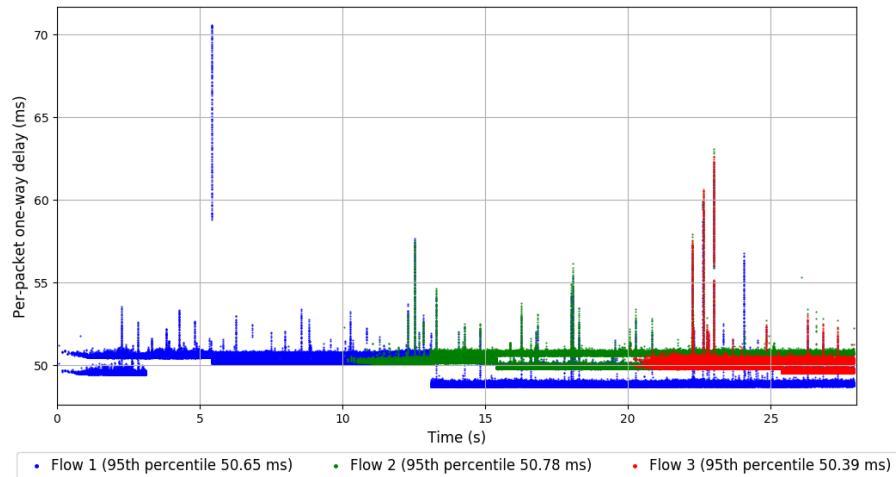
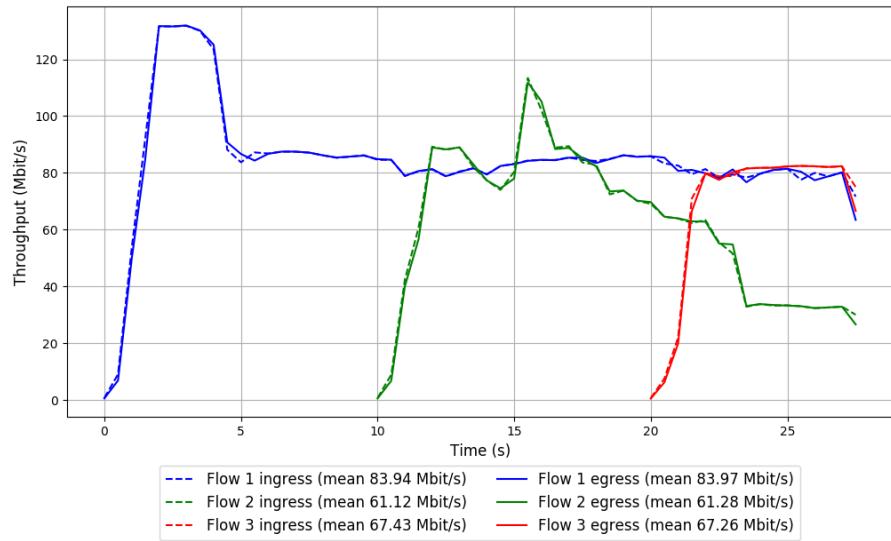


```
Run 1: Statistics of Copa

Start at: 2018-01-09 20:08:33
End at: 2018-01-09 20:09:03

# Below is generated by plot.py at 2018-01-10 01:48:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.14 Mbit/s
95th percentile per-packet one-way delay: 50.711 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 83.97 Mbit/s
95th percentile per-packet one-way delay: 50.648 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 61.28 Mbit/s
95th percentile per-packet one-way delay: 50.776 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 67.26 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 1.55%
```

Run 1: Report of Copa — Data Link



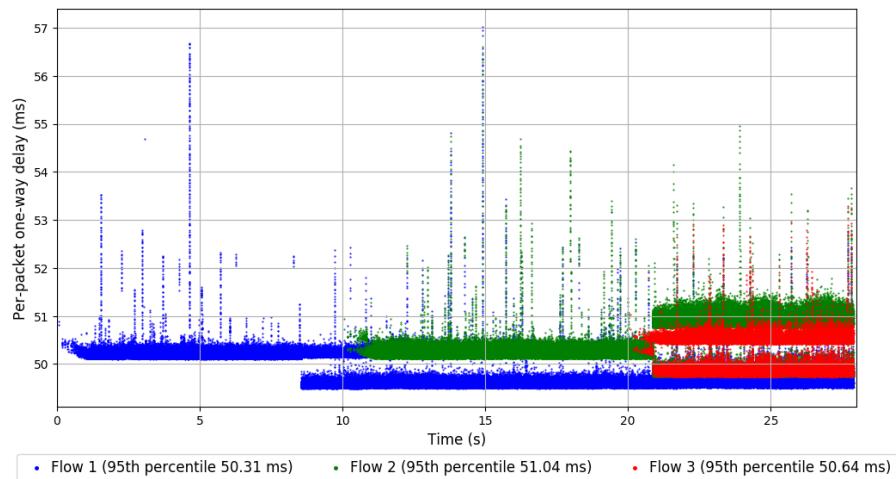
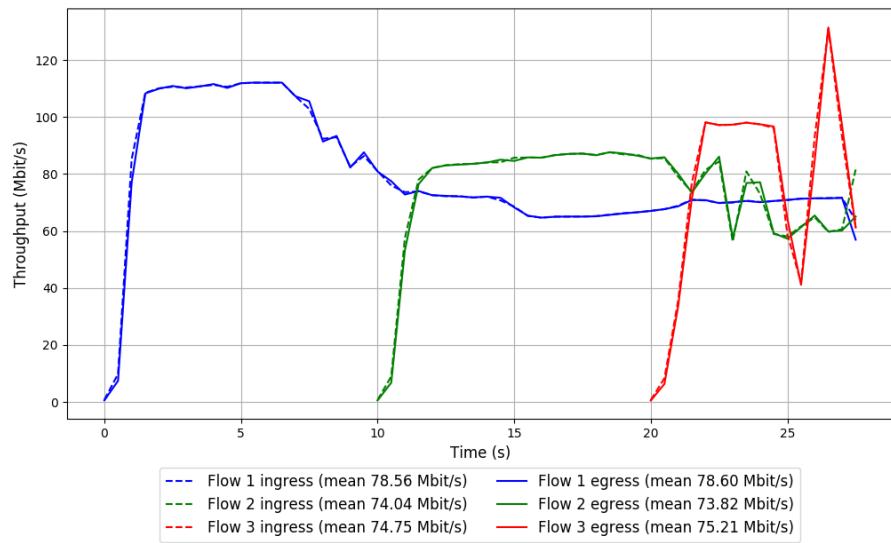
Run 2: Statistics of Copa

Start at: 2018-01-09 20:22:48

End at: 2018-01-09 20:23:18

```
# Below is generated by plot.py at 2018-01-10 01:48:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 147.01 Mbit/s
95th percentile per-packet one-way delay: 50.857 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 78.60 Mbit/s
95th percentile per-packet one-way delay: 50.310 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 73.82 Mbit/s
95th percentile per-packet one-way delay: 51.044 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 75.21 Mbit/s
95th percentile per-packet one-way delay: 50.643 ms
Loss rate: 0.68%
```

Run 2: Report of Copa — Data Link



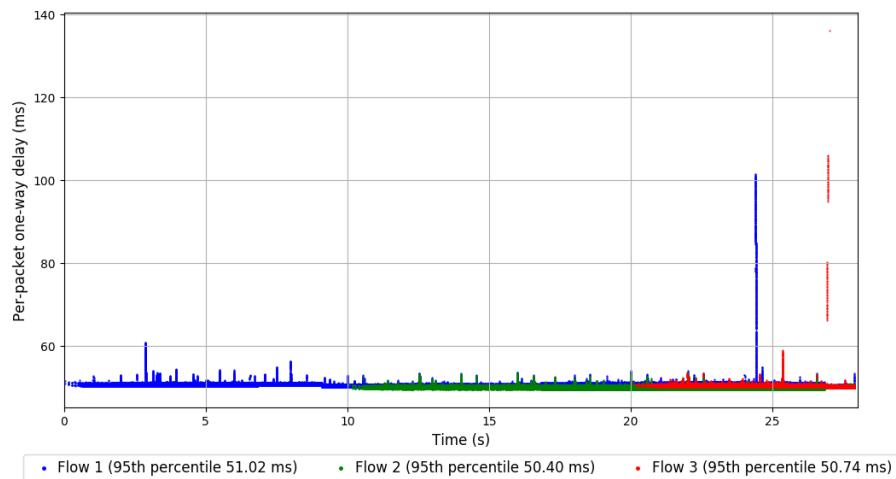
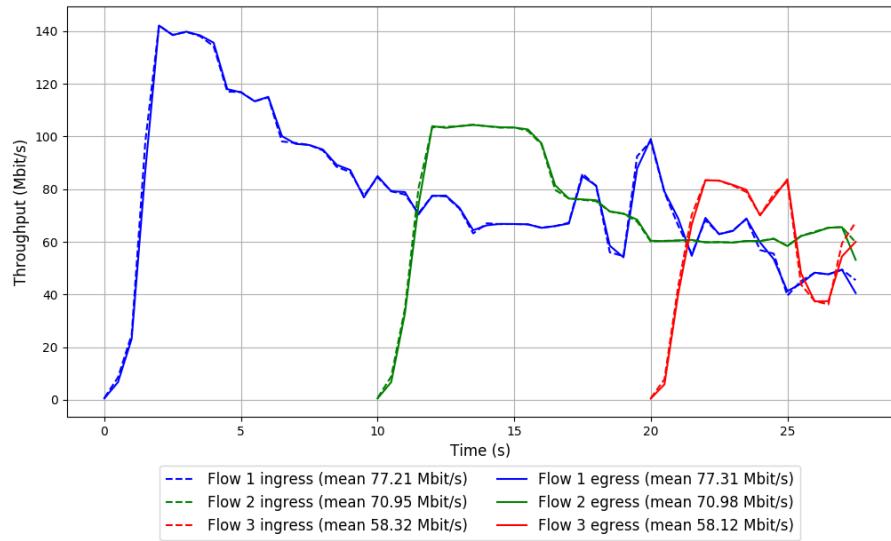
Run 3: Statistics of Copa

Start at: 2018-01-09 20:36:20

End at: 2018-01-09 20:36:50

```
# Below is generated by plot.py at 2018-01-10 01:48:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 139.10 Mbit/s
95th percentile per-packet one-way delay: 50.976 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 77.31 Mbit/s
95th percentile per-packet one-way delay: 51.022 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 70.98 Mbit/s
95th percentile per-packet one-way delay: 50.403 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 50.737 ms
Loss rate: 1.62%
```

Run 3: Report of Copa — Data Link



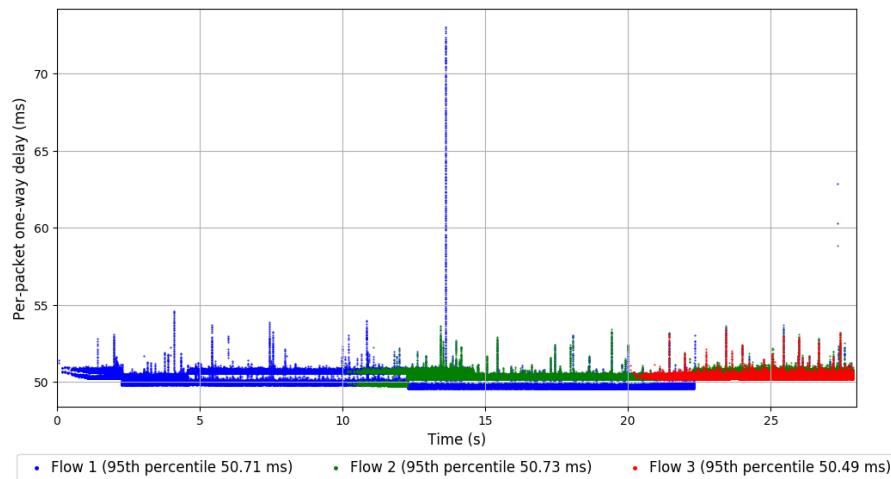
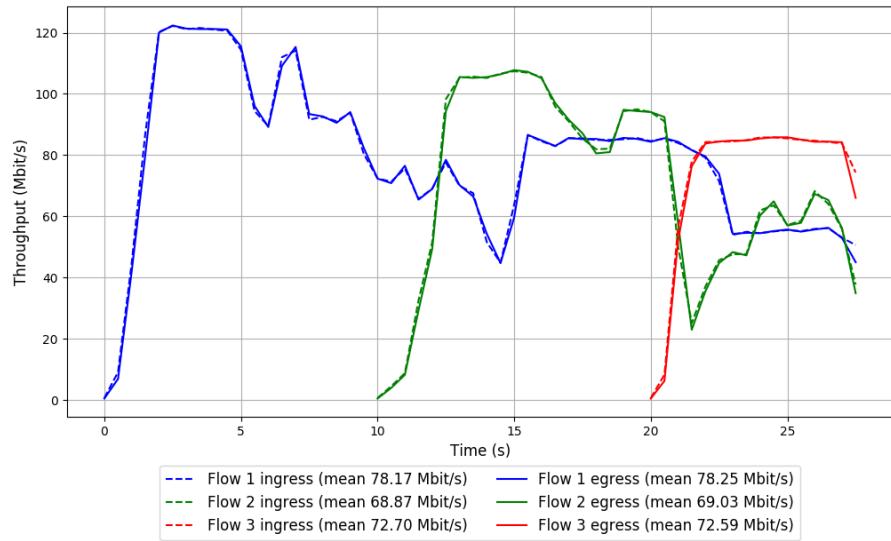
Run 4: Statistics of Copa

Start at: 2018-01-09 20:50:34

End at: 2018-01-09 20:51:04

```
# Below is generated by plot.py at 2018-01-10 01:48:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.84 Mbit/s
95th percentile per-packet one-way delay: 50.706 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 78.25 Mbit/s
95th percentile per-packet one-way delay: 50.708 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 69.03 Mbit/s
95th percentile per-packet one-way delay: 50.725 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 72.59 Mbit/s
95th percentile per-packet one-way delay: 50.493 ms
Loss rate: 1.42%
```

Run 4: Report of Copa — Data Link



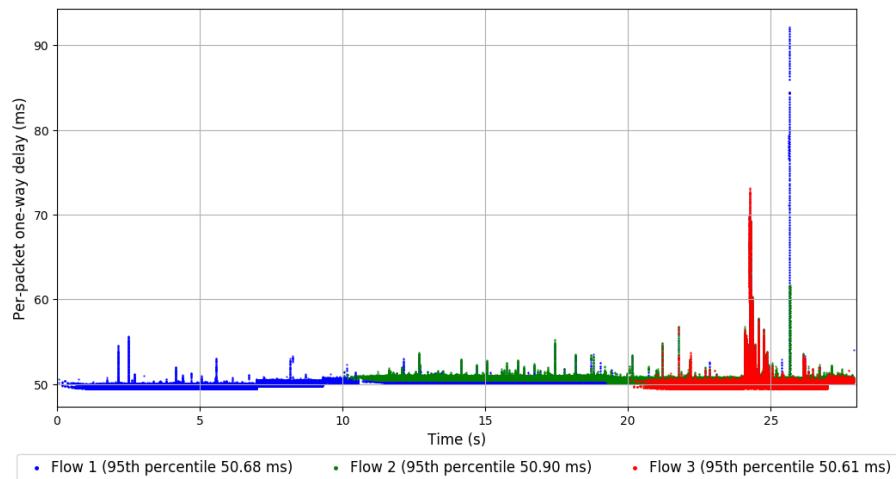
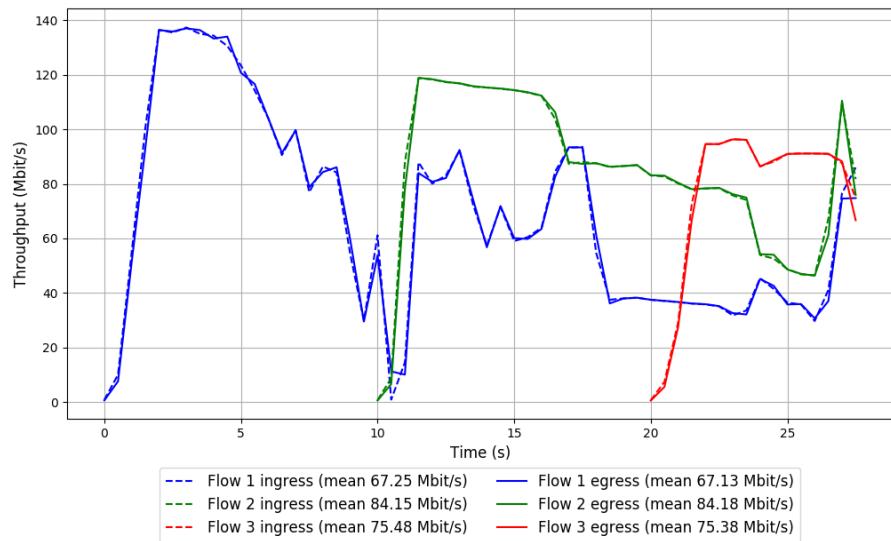
Run 5: Statistics of Copa

Start at: 2018-01-09 21:04:39

End at: 2018-01-09 21:05:09

```
# Below is generated by plot.py at 2018-01-10 01:49:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.15 Mbit/s
95th percentile per-packet one-way delay: 50.849 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 67.13 Mbit/s
95th percentile per-packet one-way delay: 50.683 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 84.18 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 75.38 Mbit/s
95th percentile per-packet one-way delay: 50.614 ms
Loss rate: 1.40%
```

Run 5: Report of Copa — Data Link



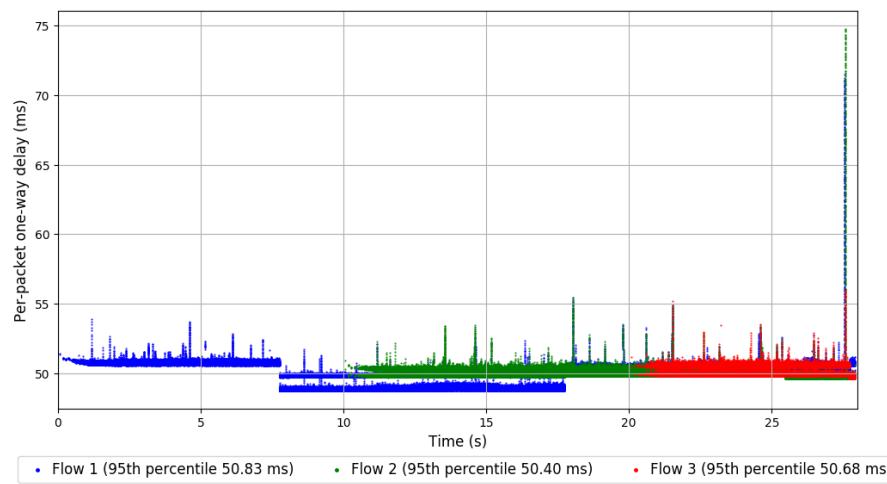
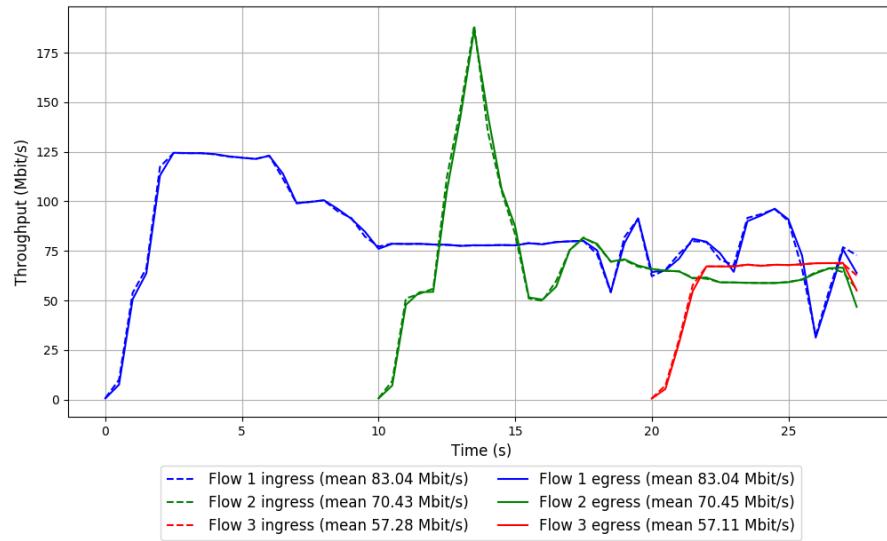
Run 6: Statistics of Copa

Start at: 2018-01-09 21:19:01

End at: 2018-01-09 21:19:31

```
# Below is generated by plot.py at 2018-01-10 01:49:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.18 Mbit/s
95th percentile per-packet one-way delay: 50.792 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 50.830 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 70.45 Mbit/s
95th percentile per-packet one-way delay: 50.402 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 1.56%
```

Run 6: Report of Copa — Data Link



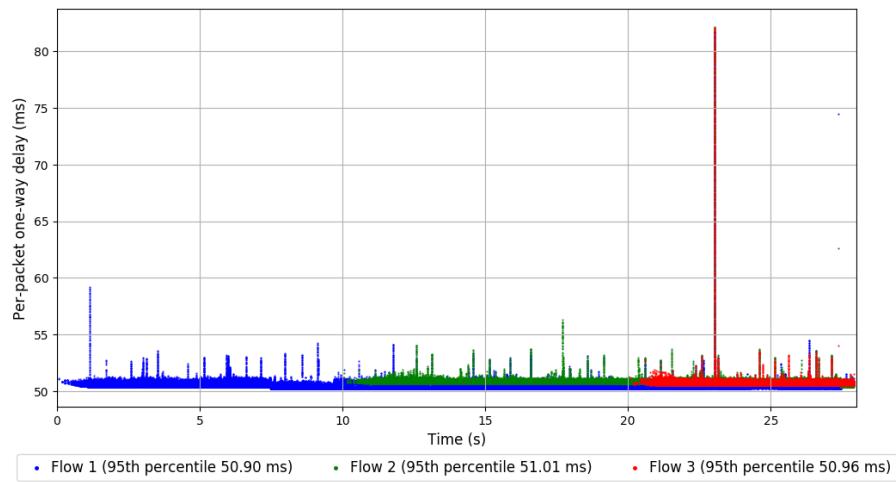
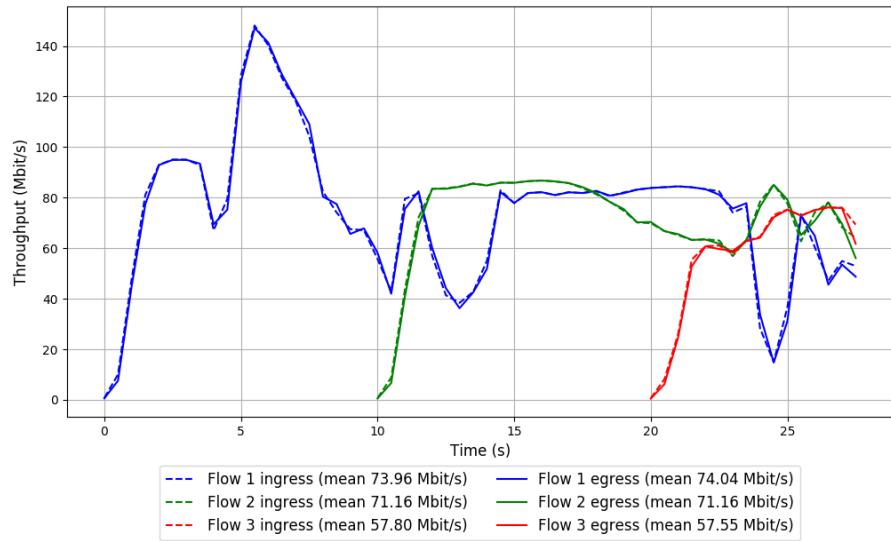
Run 7: Statistics of Copa

Start at: 2018-01-09 21:33:19

End at: 2018-01-09 21:33:49

```
# Below is generated by plot.py at 2018-01-10 01:49:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 135.77 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 74.04 Mbit/s
95th percentile per-packet one-way delay: 50.899 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 71.16 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 57.55 Mbit/s
95th percentile per-packet one-way delay: 50.964 ms
Loss rate: 1.69%
```

Run 7: Report of Copa — Data Link



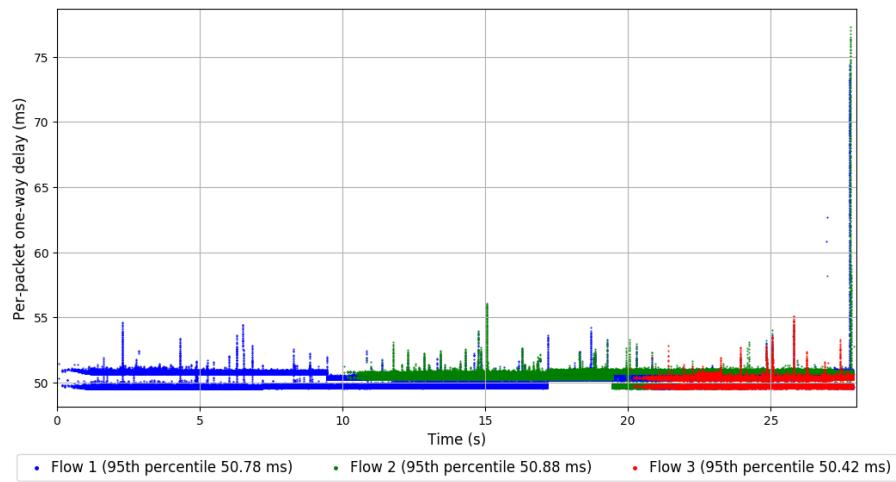
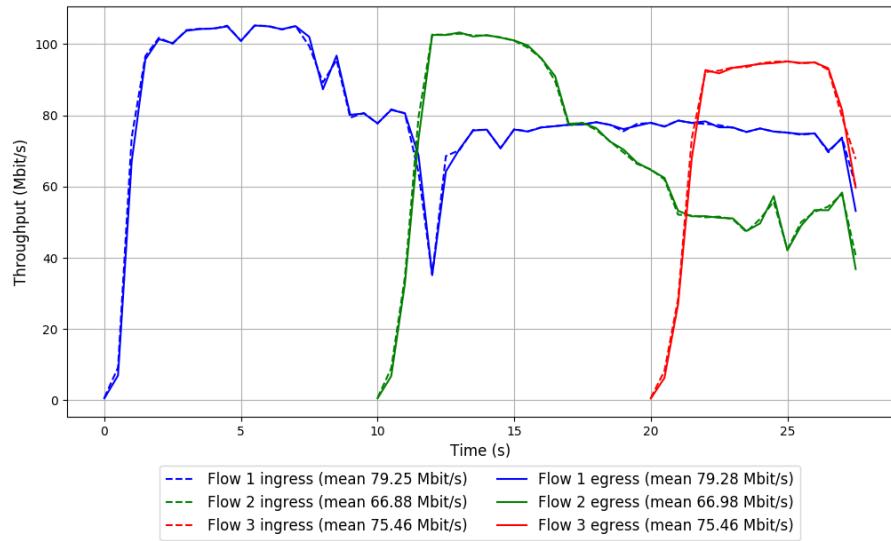
Run 8: Statistics of Copa

Start at: 2018-01-09 21:47:39

End at: 2018-01-09 21:48:09

```
# Below is generated by plot.py at 2018-01-10 01:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 143.40 Mbit/s
95th percentile per-packet one-way delay: 50.820 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 79.28 Mbit/s
95th percentile per-packet one-way delay: 50.778 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 66.98 Mbit/s
95th percentile per-packet one-way delay: 50.875 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 75.46 Mbit/s
95th percentile per-packet one-way delay: 50.424 ms
Loss rate: 1.27%
```

Run 8: Report of Copa — Data Link



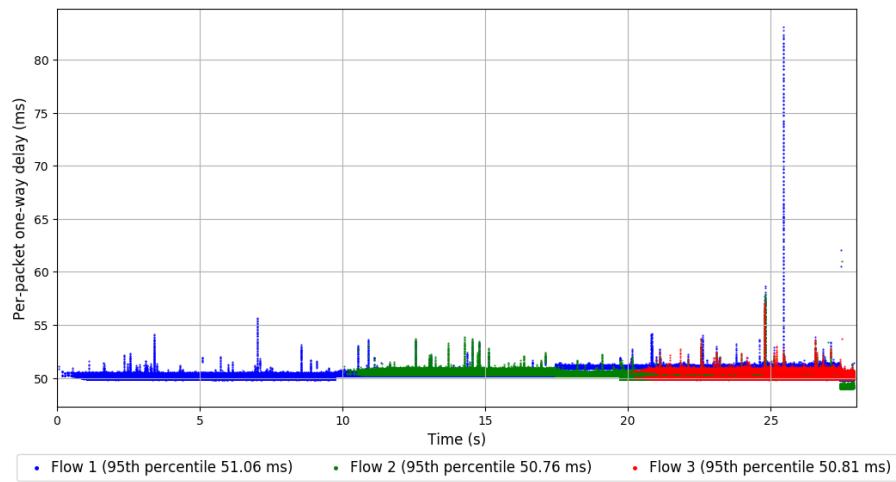
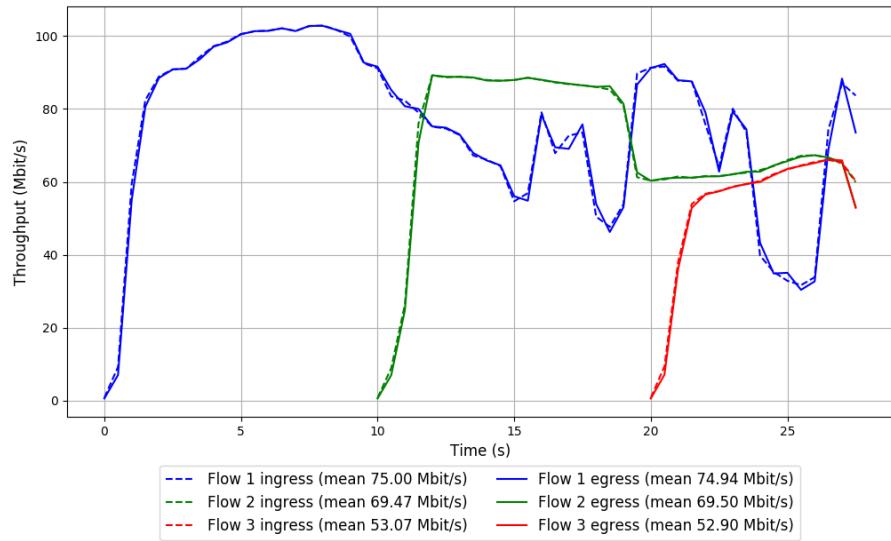
Run 9: Statistics of Copa

Start at: 2018-01-09 22:00:59

End at: 2018-01-09 22:01:29

```
# Below is generated by plot.py at 2018-01-10 01:50:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 134.33 Mbit/s
95th percentile per-packet one-way delay: 51.017 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 74.94 Mbit/s
95th percentile per-packet one-way delay: 51.058 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 69.50 Mbit/s
95th percentile per-packet one-way delay: 50.758 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 52.90 Mbit/s
95th percentile per-packet one-way delay: 50.810 ms
Loss rate: 1.59%
```

Run 9: Report of Copa — Data Link



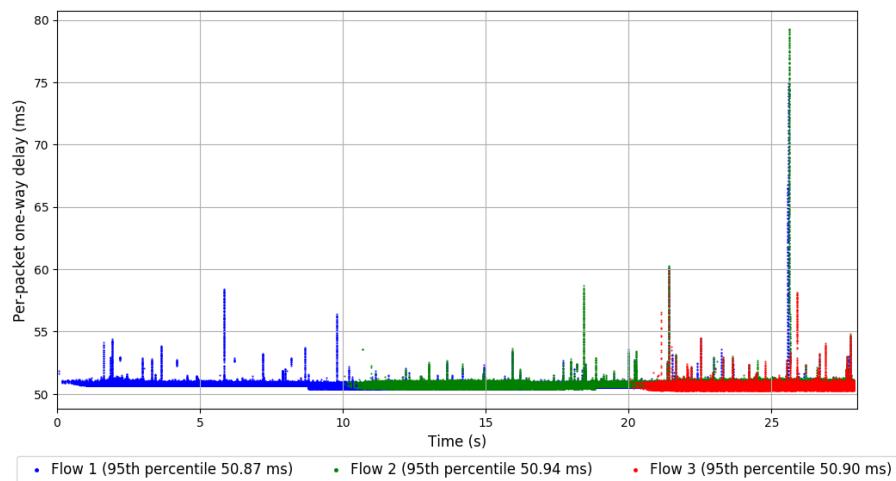
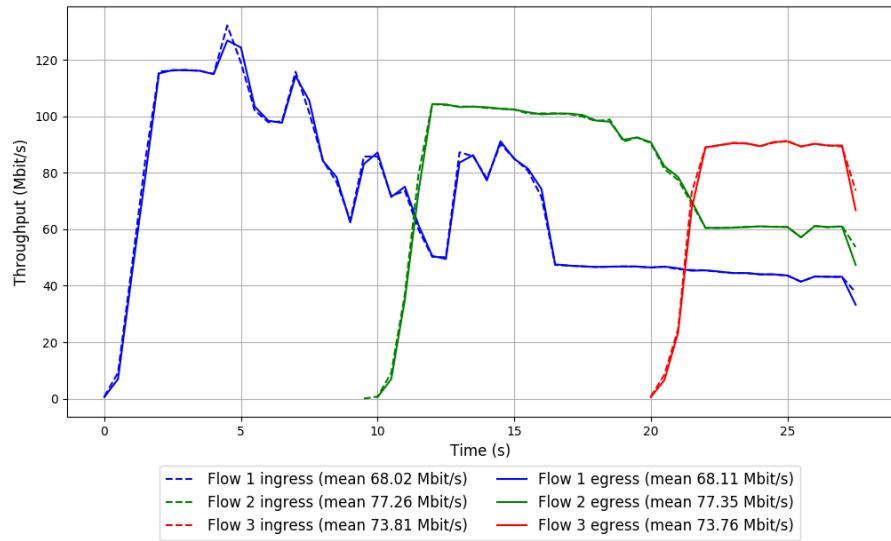
Run 10: Statistics of Copa

Start at: 2018-01-09 22:15:10

End at: 2018-01-09 22:15:40

```
# Below is generated by plot.py at 2018-01-10 01:50:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.43 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 68.11 Mbit/s
95th percentile per-packet one-way delay: 50.874 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 77.35 Mbit/s
95th percentile per-packet one-way delay: 50.941 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 73.76 Mbit/s
95th percentile per-packet one-way delay: 50.896 ms
Loss rate: 1.35%
```

Run 10: Report of Copa — Data Link

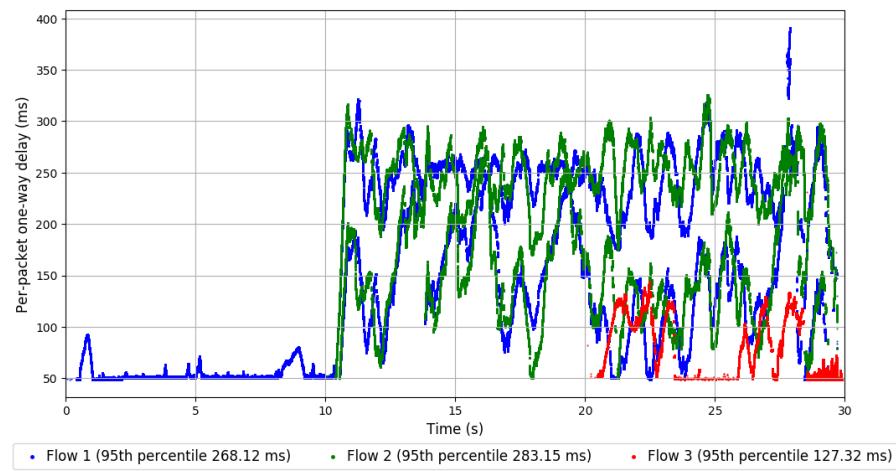
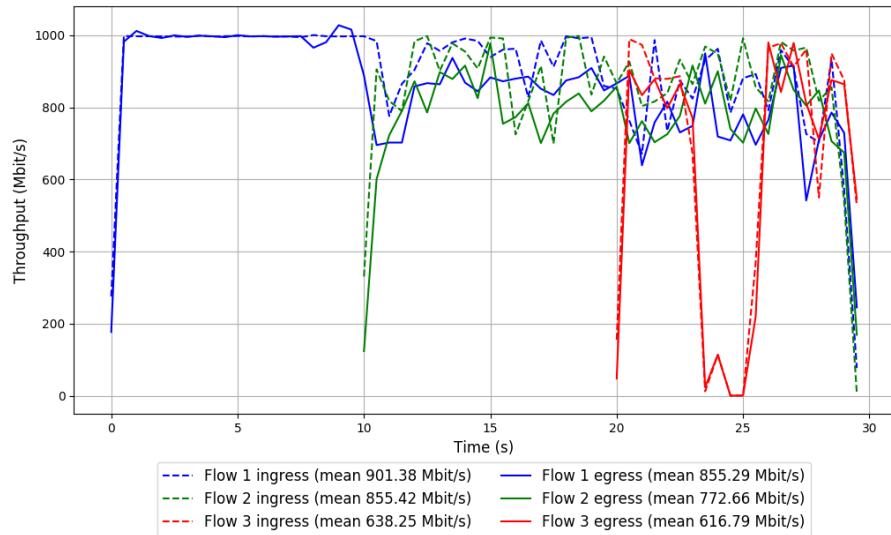


```
Run 1: Statistics of FillP

Start at: 2018-01-09 20:13:36
End at: 2018-01-09 20:14:06

# Below is generated by plot.py at 2018-01-10 02:12:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1569.33 Mbit/s
95th percentile per-packet one-way delay: 276.226 ms
Loss rate: 6.93%
-- Flow 1:
Average throughput: 855.29 Mbit/s
95th percentile per-packet one-way delay: 268.118 ms
Loss rate: 5.43%
-- Flow 2:
Average throughput: 772.66 Mbit/s
95th percentile per-packet one-way delay: 283.149 ms
Loss rate: 10.16%
-- Flow 3:
Average throughput: 616.79 Mbit/s
95th percentile per-packet one-way delay: 127.318 ms
Loss rate: 4.64%
```

Run 1: Report of FillP — Data Link



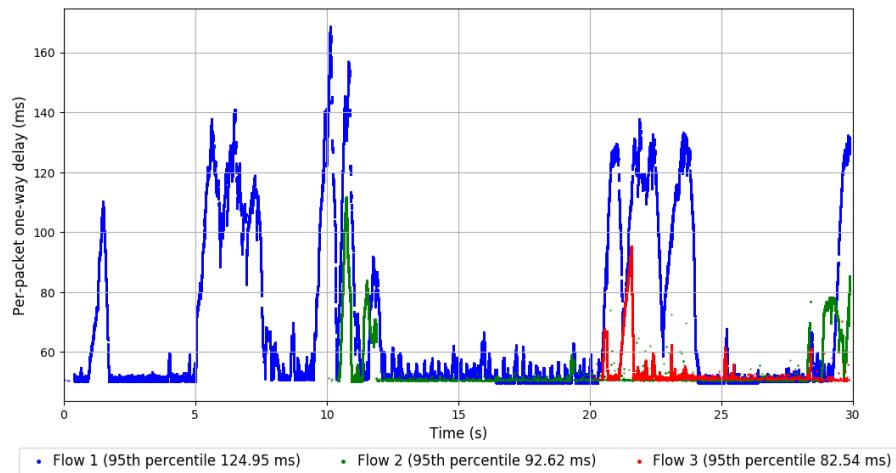
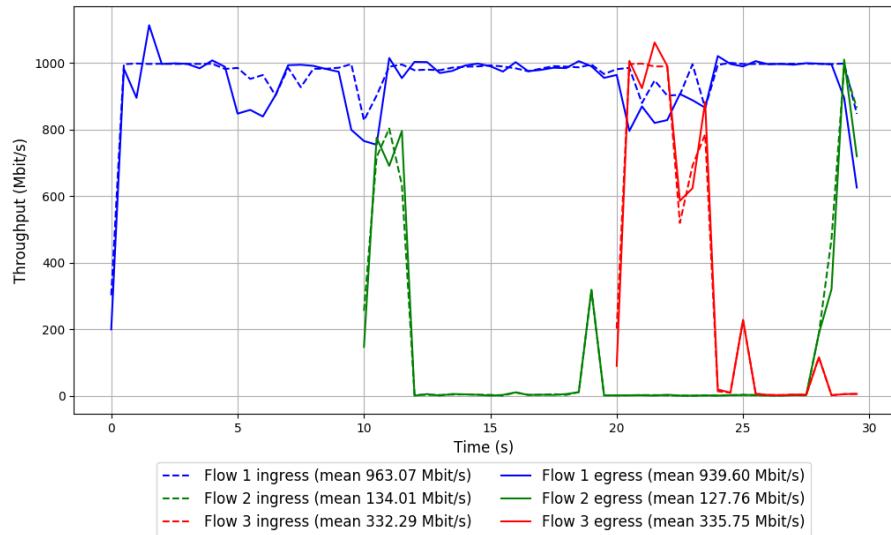
Run 2: Statistics of FillP

Start at: 2018-01-09 20:27:52

End at: 2018-01-09 20:28:22

```
# Below is generated by plot.py at 2018-01-10 02:12:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1134.64 Mbit/s
95th percentile per-packet one-way delay: 123.333 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 939.60 Mbit/s
95th percentile per-packet one-way delay: 124.953 ms
Loss rate: 2.77%
-- Flow 2:
Average throughput: 127.76 Mbit/s
95th percentile per-packet one-way delay: 92.625 ms
Loss rate: 5.15%
-- Flow 3:
Average throughput: 335.75 Mbit/s
95th percentile per-packet one-way delay: 82.544 ms
Loss rate: 0.02%
```

Run 2: Report of FillP — Data Link



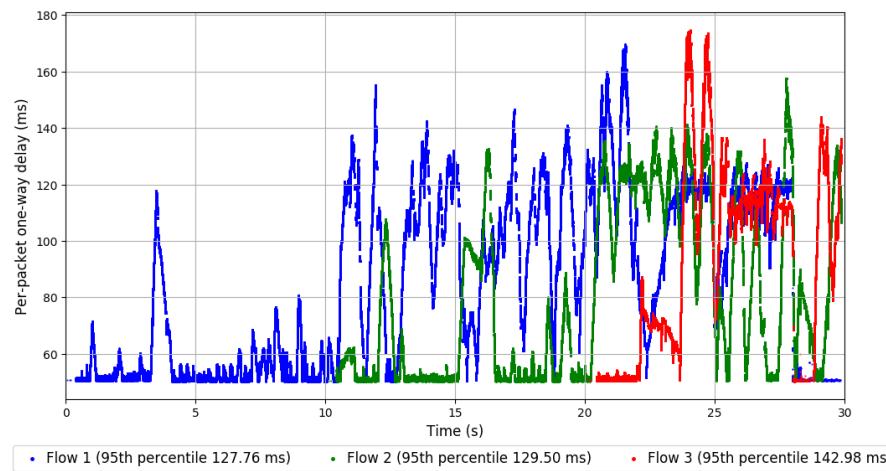
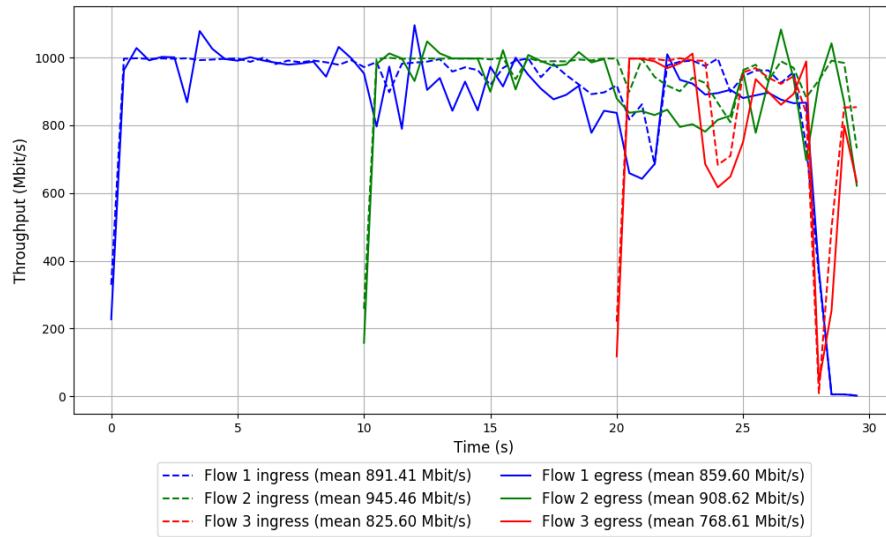
Run 3: Statistics of FillP

Start at: 2018-01-09 20:41:25

End at: 2018-01-09 20:41:55

```
# Below is generated by plot.py at 2018-01-10 02:17:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1714.95 Mbit/s
95th percentile per-packet one-way delay: 130.395 ms
Loss rate: 4.68%
-- Flow 1:
Average throughput: 859.60 Mbit/s
95th percentile per-packet one-way delay: 127.760 ms
Loss rate: 3.90%
-- Flow 2:
Average throughput: 908.62 Mbit/s
95th percentile per-packet one-way delay: 129.497 ms
Loss rate: 4.39%
-- Flow 3:
Average throughput: 768.61 Mbit/s
95th percentile per-packet one-way delay: 142.976 ms
Loss rate: 7.87%
```

Run 3: Report of FillP — Data Link



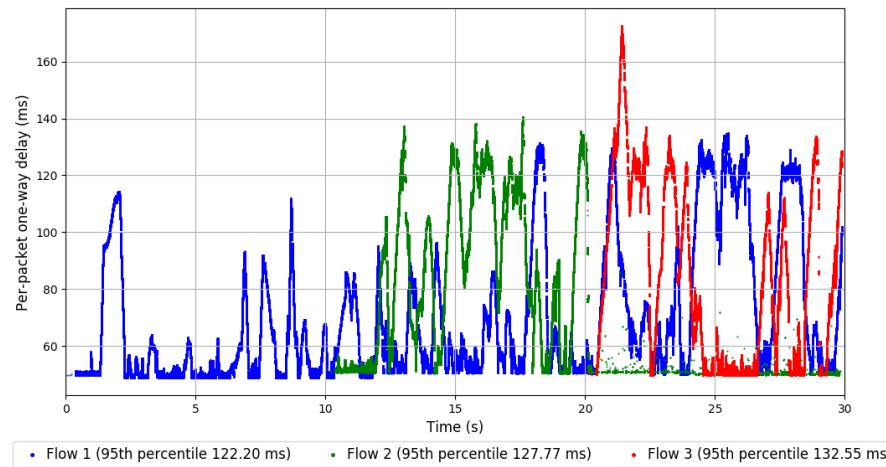
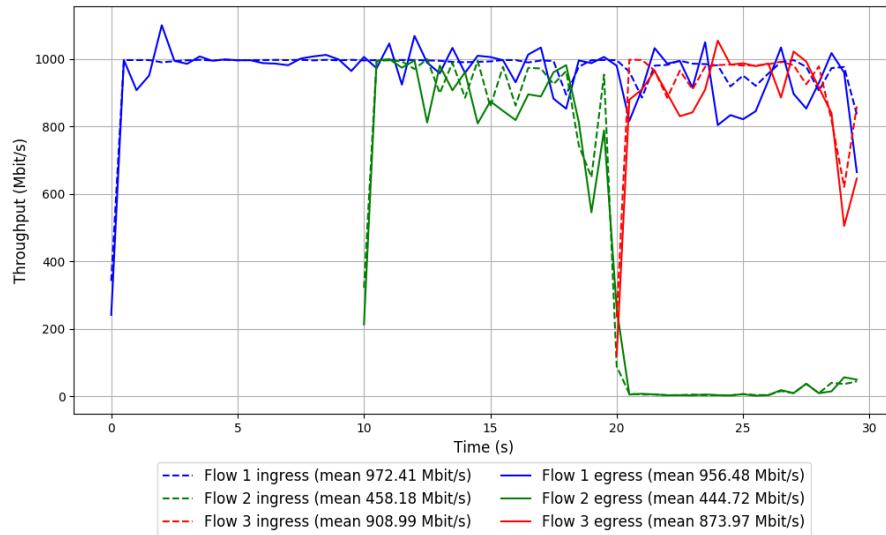
Run 4: Statistics of FillP

Start at: 2018-01-09 20:55:37

End at: 2018-01-09 20:56:07

```
# Below is generated by plot.py at 2018-01-10 02:17:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1538.50 Mbit/s
95th percentile per-packet one-way delay: 125.635 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 956.48 Mbit/s
95th percentile per-packet one-way delay: 122.205 ms
Loss rate: 1.97%
-- Flow 2:
Average throughput: 444.72 Mbit/s
95th percentile per-packet one-way delay: 127.765 ms
Loss rate: 3.79%
-- Flow 3:
Average throughput: 873.97 Mbit/s
95th percentile per-packet one-way delay: 132.553 ms
Loss rate: 4.83%
```

Run 4: Report of FillP — Data Link



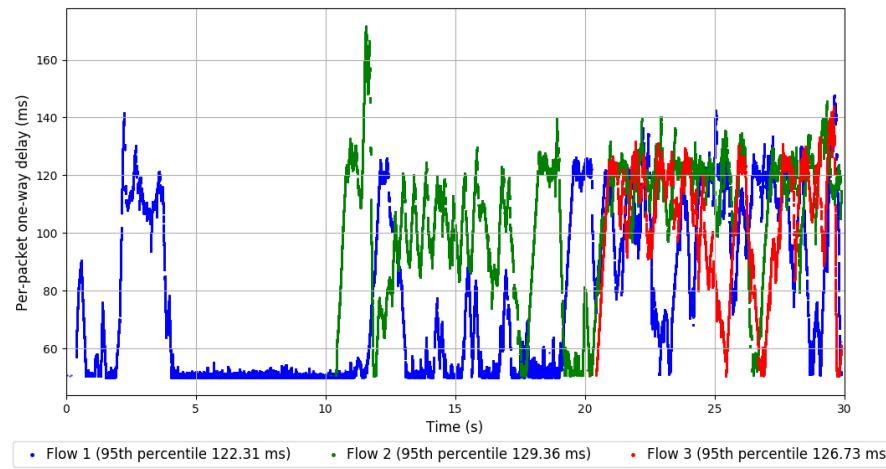
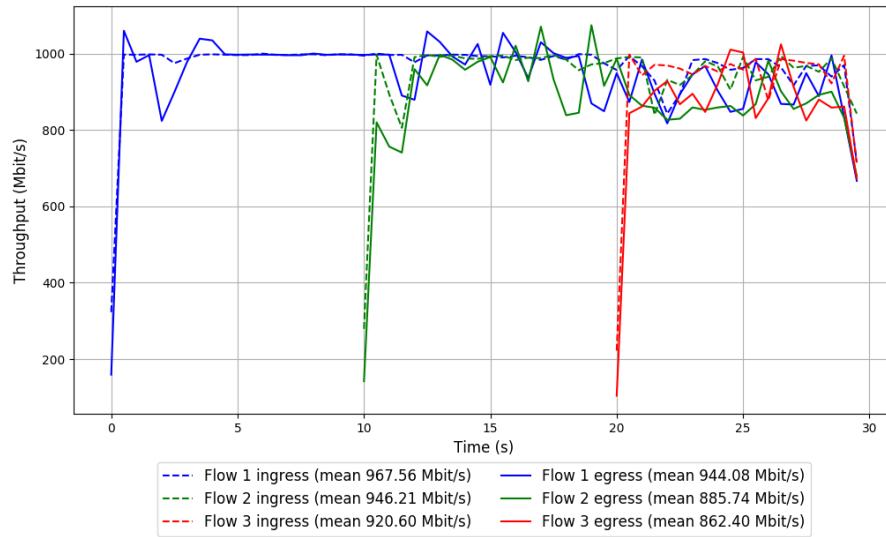
Run 5: Statistics of FillP

Start at: 2018-01-09 21:09:39

End at: 2018-01-09 21:10:09

```
# Below is generated by plot.py at 2018-01-10 02:20:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1815.84 Mbit/s
95th percentile per-packet one-way delay: 126.306 ms
Loss rate: 4.85%
-- Flow 1:
Average throughput: 944.08 Mbit/s
95th percentile per-packet one-way delay: 122.315 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 885.74 Mbit/s
95th percentile per-packet one-way delay: 129.362 ms
Loss rate: 6.87%
-- Flow 3:
Average throughput: 862.40 Mbit/s
95th percentile per-packet one-way delay: 126.727 ms
Loss rate: 7.30%
```

Run 5: Report of FillP — Data Link



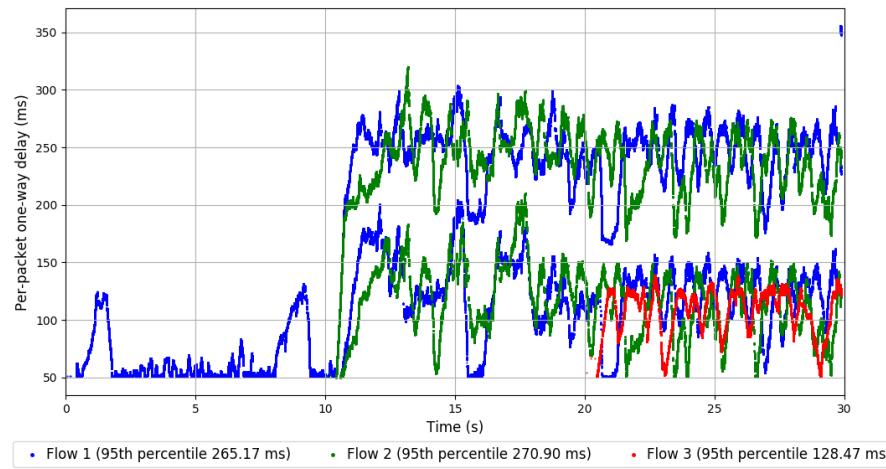
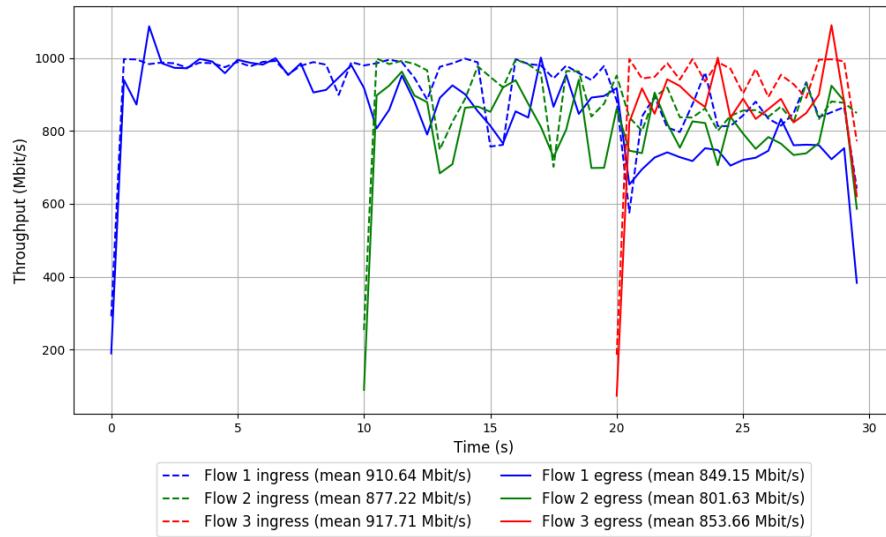
Run 6: Statistics of FillP

Start at: 2018-01-09 21:24:01

End at: 2018-01-09 21:24:31

```
# Below is generated by plot.py at 2018-01-10 02:20:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1662.51 Mbit/s
95th percentile per-packet one-way delay: 265.218 ms
Loss rate: 7.87%
-- Flow 1:
Average throughput: 849.15 Mbit/s
95th percentile per-packet one-way delay: 265.167 ms
Loss rate: 7.07%
-- Flow 2:
Average throughput: 801.63 Mbit/s
95th percentile per-packet one-way delay: 270.905 ms
Loss rate: 9.09%
-- Flow 3:
Average throughput: 853.66 Mbit/s
95th percentile per-packet one-way delay: 128.467 ms
Loss rate: 7.91%
```

Run 6: Report of FillP — Data Link



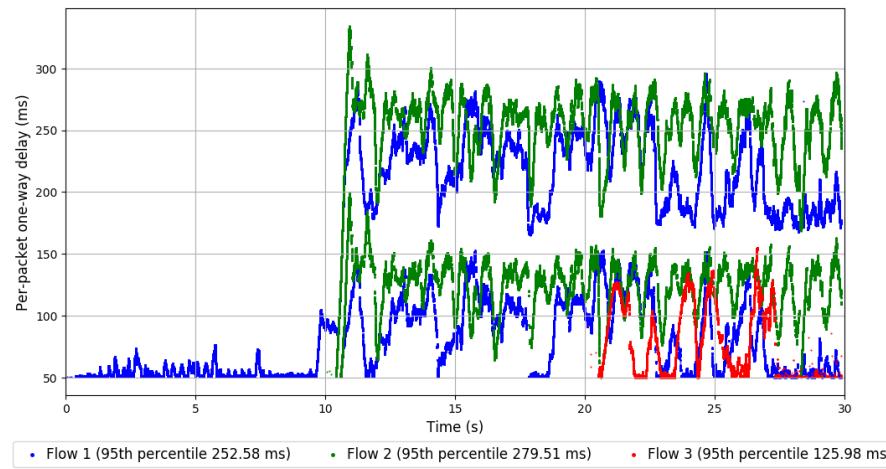
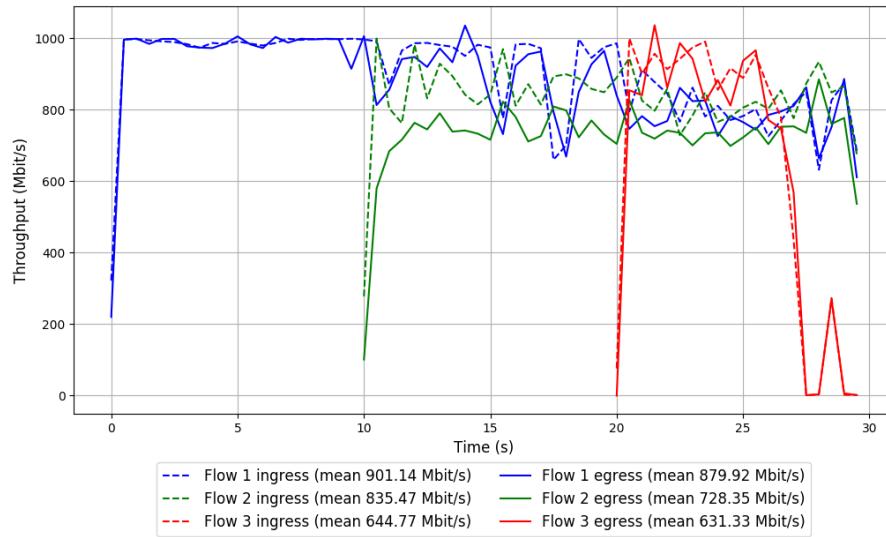
Run 7: Statistics of FillP

Start at: 2018-01-09 21:38:23

End at: 2018-01-09 21:38:53

```
# Below is generated by plot.py at 2018-01-10 02:20:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1570.18 Mbit/s
95th percentile per-packet one-way delay: 269.824 ms
Loss rate: 6.29%
-- Flow 1:
Average throughput: 879.92 Mbit/s
95th percentile per-packet one-way delay: 252.576 ms
Loss rate: 2.69%
-- Flow 2:
Average throughput: 728.35 Mbit/s
95th percentile per-packet one-way delay: 279.506 ms
Loss rate: 13.28%
-- Flow 3:
Average throughput: 631.33 Mbit/s
95th percentile per-packet one-way delay: 125.979 ms
Loss rate: 3.25%
```

Run 7: Report of FillP — Data Link



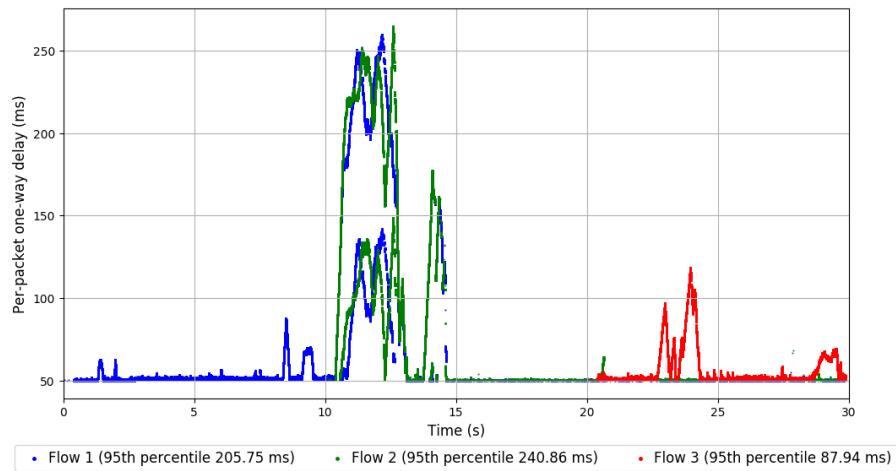
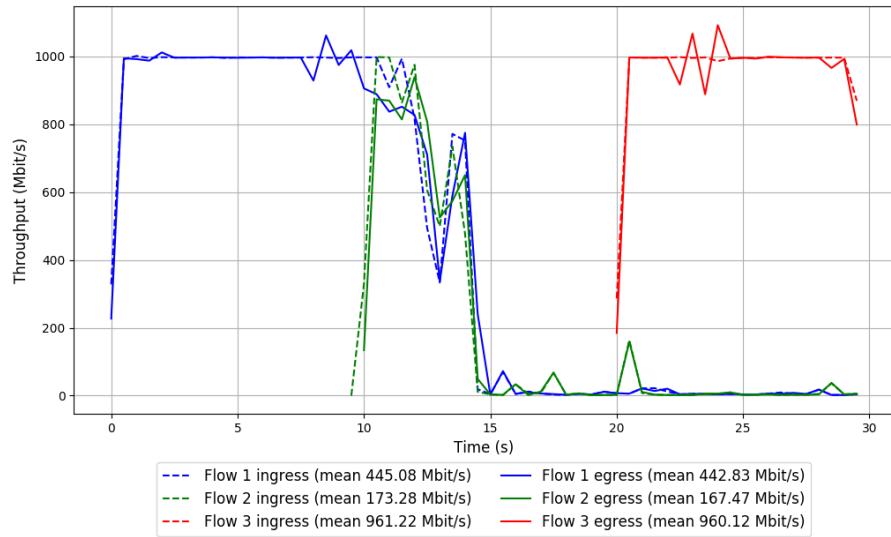
Run 8: Statistics of FillP

Start at: 2018-01-09 21:52:38

End at: 2018-01-09 21:53:08

```
# Below is generated by plot.py at 2018-01-10 02:20:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 870.07 Mbit/s
95th percentile per-packet one-way delay: 214.995 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 442.83 Mbit/s
95th percentile per-packet one-way delay: 205.751 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 167.47 Mbit/s
95th percentile per-packet one-way delay: 240.862 ms
Loss rate: 3.69%
-- Flow 3:
Average throughput: 960.12 Mbit/s
95th percentile per-packet one-way delay: 87.939 ms
Loss rate: 1.14%
```

Run 8: Report of FillP — Data Link



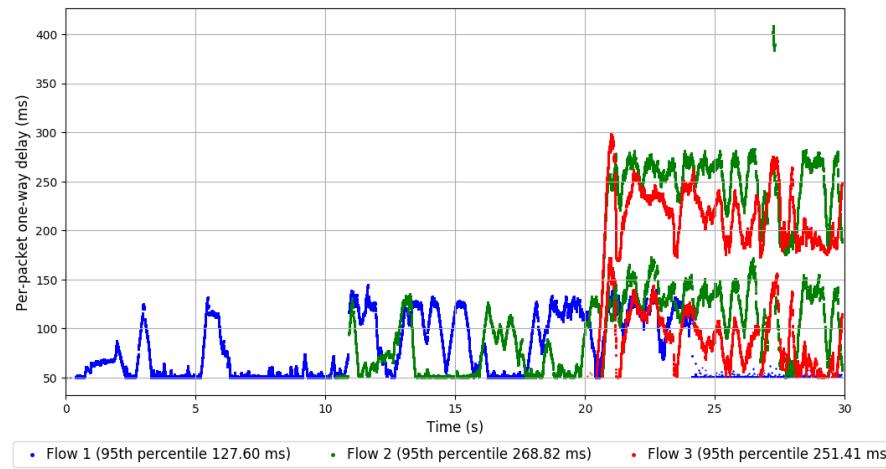
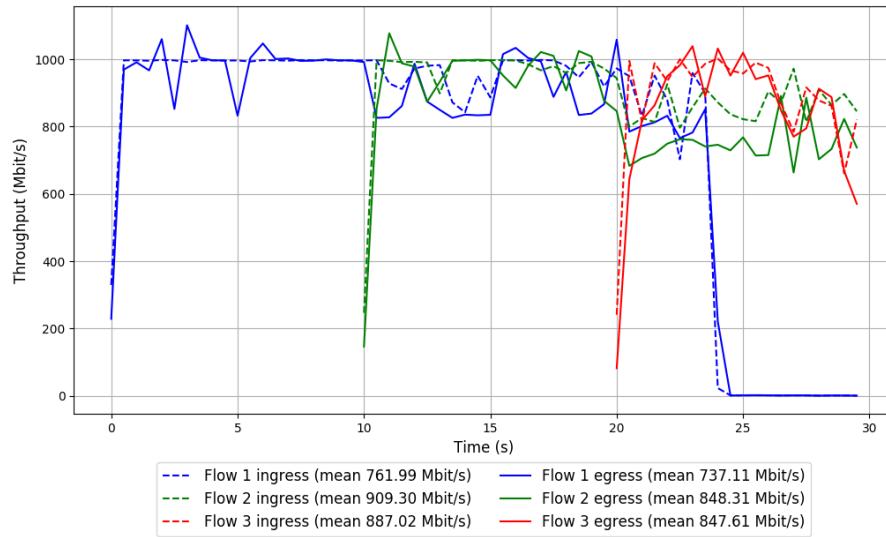
Run 9: Statistics of FillP

Start at: 2018-01-09 22:05:59

End at: 2018-01-09 22:06:29

```
# Below is generated by plot.py at 2018-01-10 02:25:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1578.61 Mbit/s
95th percentile per-packet one-way delay: 254.907 ms
Loss rate: 5.27%
-- Flow 1:
Average throughput: 737.11 Mbit/s
95th percentile per-packet one-way delay: 127.598 ms
Loss rate: 3.60%
-- Flow 2:
Average throughput: 848.31 Mbit/s
95th percentile per-packet one-way delay: 268.817 ms
Loss rate: 7.24%
-- Flow 3:
Average throughput: 847.61 Mbit/s
95th percentile per-packet one-way delay: 251.405 ms
Loss rate: 5.53%
```

Run 9: Report of FillP — Data Link



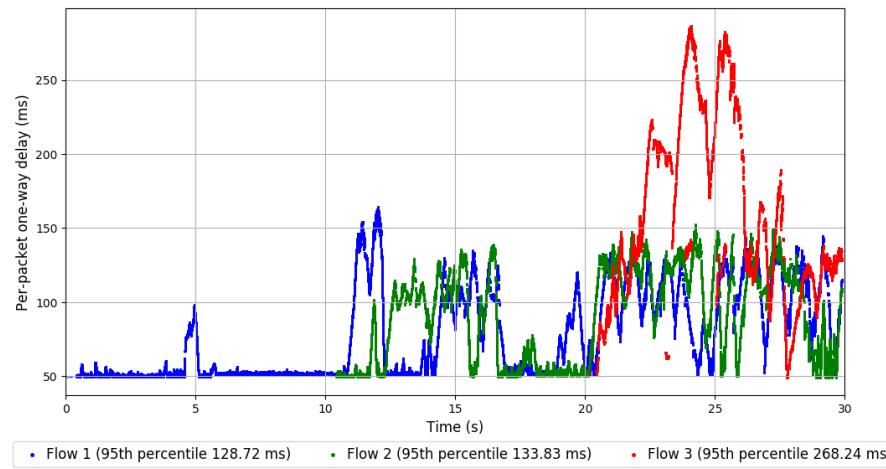
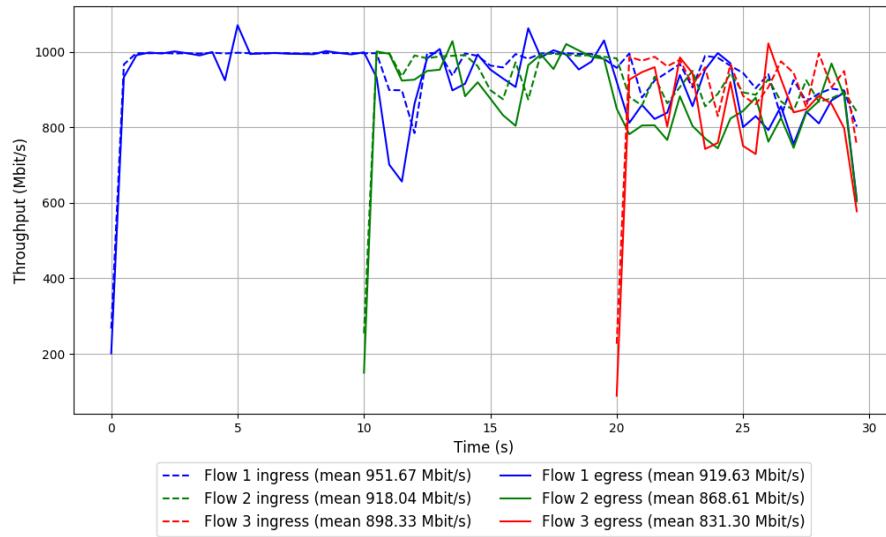
Run 10: Statistics of FillP

Start at: 2018-01-09 22:20:13

End at: 2018-01-09 22:20:43

```
# Below is generated by plot.py at 2018-01-10 02:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1770.12 Mbit/s
95th percentile per-packet one-way delay: 193.530 ms
Loss rate: 5.17%
-- Flow 1:
Average throughput: 919.63 Mbit/s
95th percentile per-packet one-way delay: 128.715 ms
Loss rate: 3.69%
-- Flow 2:
Average throughput: 868.61 Mbit/s
95th percentile per-packet one-way delay: 133.834 ms
Loss rate: 5.87%
-- Flow 3:
Average throughput: 831.30 Mbit/s
95th percentile per-packet one-way delay: 268.236 ms
Loss rate: 8.42%
```

Run 10: Report of FillP — Data Link



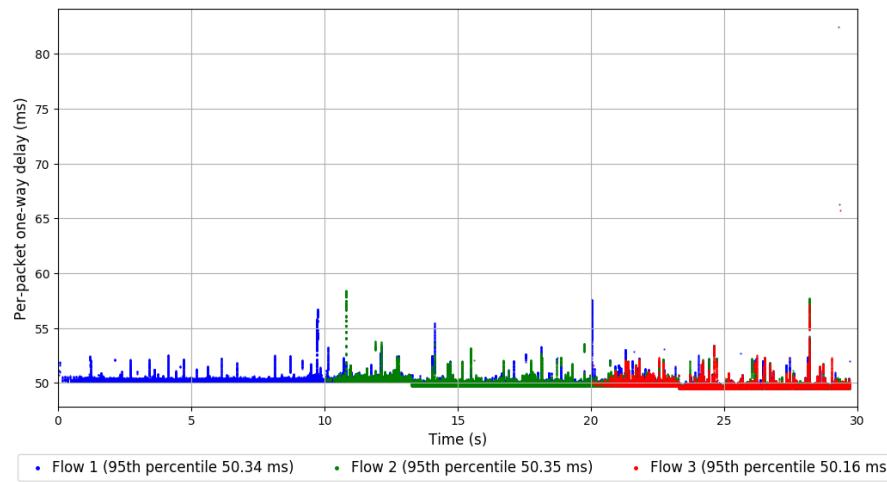
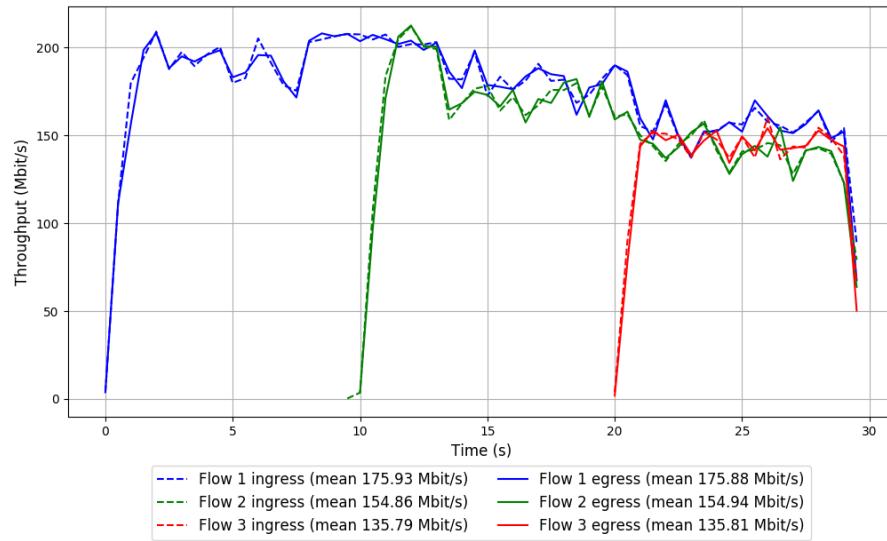
Run 1: Statistics of Indigo

Start at: 2018-01-09 20:17:47

End at: 2018-01-09 20:18:17

```
# Below is generated by plot.py at 2018-01-10 02:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.74 Mbit/s
95th percentile per-packet one-way delay: 50.336 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 175.88 Mbit/s
95th percentile per-packet one-way delay: 50.341 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 154.94 Mbit/s
95th percentile per-packet one-way delay: 50.347 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 135.81 Mbit/s
95th percentile per-packet one-way delay: 50.162 ms
Loss rate: 1.00%
```

Run 1: Report of Indigo — Data Link

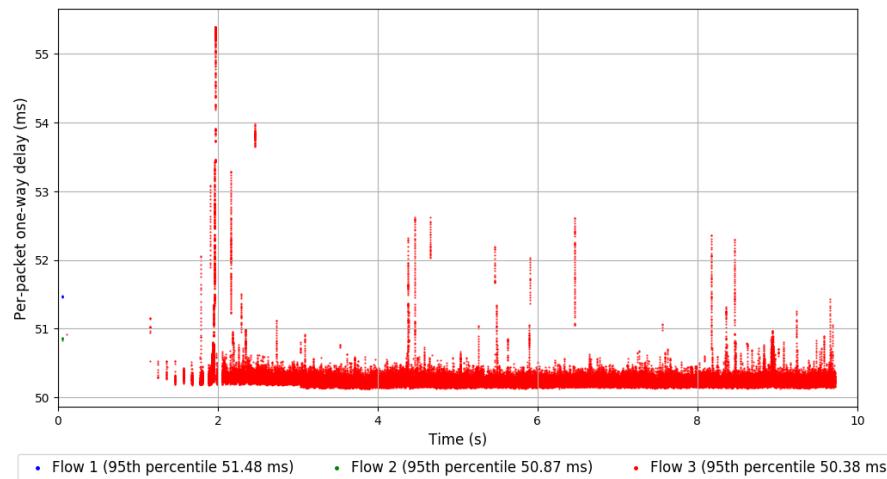
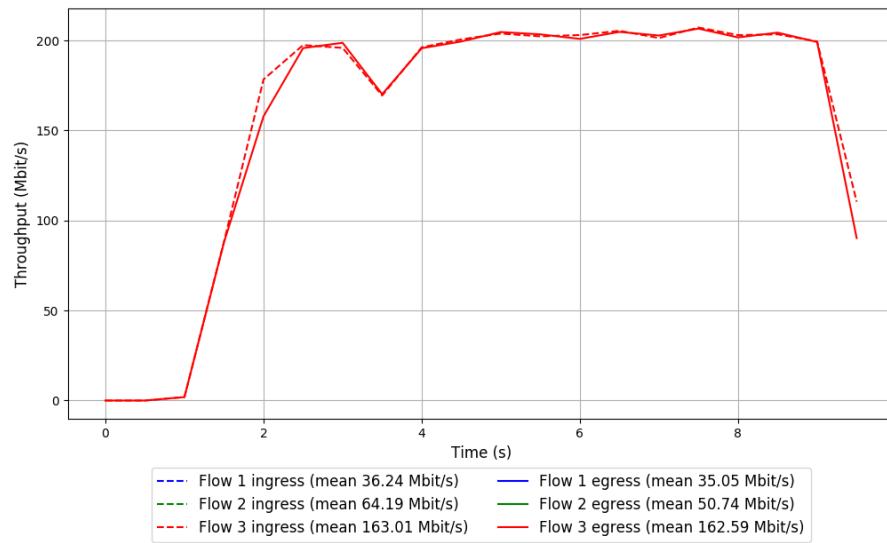


Run 2: Statistics of Indigo

Start at: 2018-01-09 20:31:38

End at: 2018-01-09 20:32:08

Run 2: Report of Indigo — Data Link



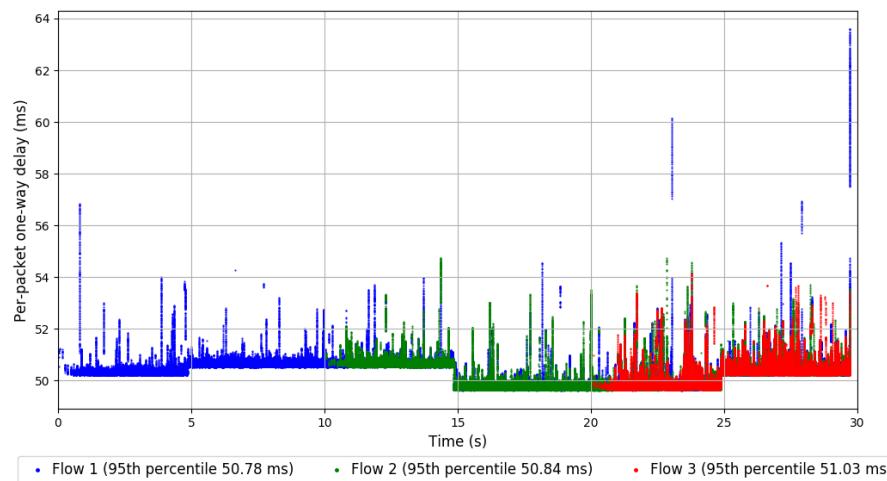
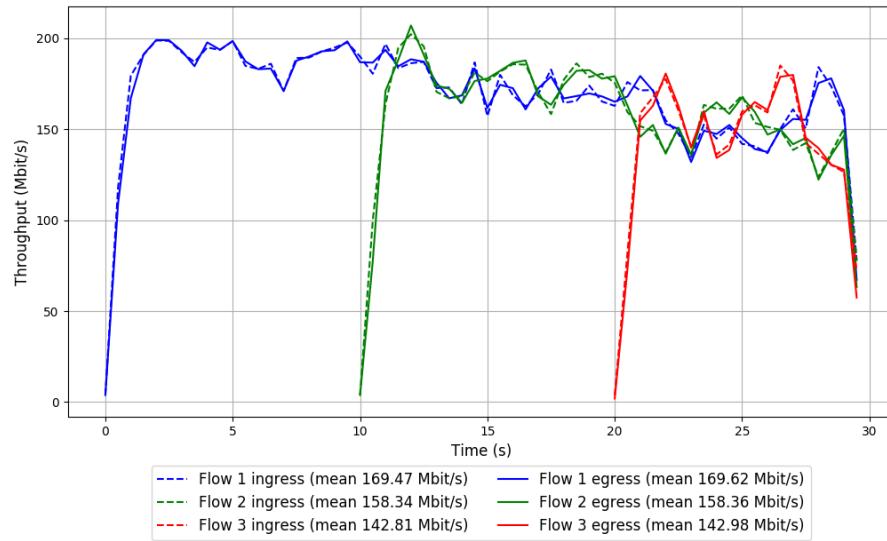
Run 3: Statistics of Indigo

Start at: 2018-01-09 20:45:36

End at: 2018-01-09 20:46:06

```
# Below is generated by plot.py at 2018-01-10 02:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.95 Mbit/s
95th percentile per-packet one-way delay: 50.819 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 169.62 Mbit/s
95th percentile per-packet one-way delay: 50.778 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 158.36 Mbit/s
95th percentile per-packet one-way delay: 50.841 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 142.98 Mbit/s
95th percentile per-packet one-way delay: 51.026 ms
Loss rate: 0.95%
```

Run 3: Report of Indigo — Data Link



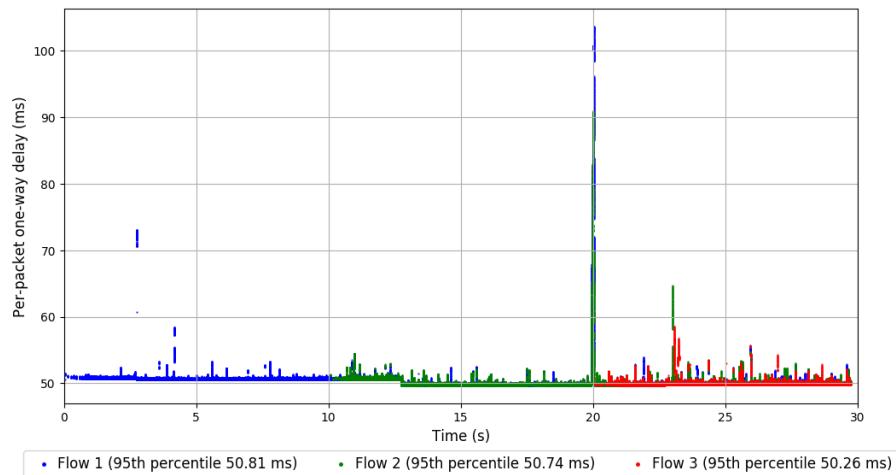
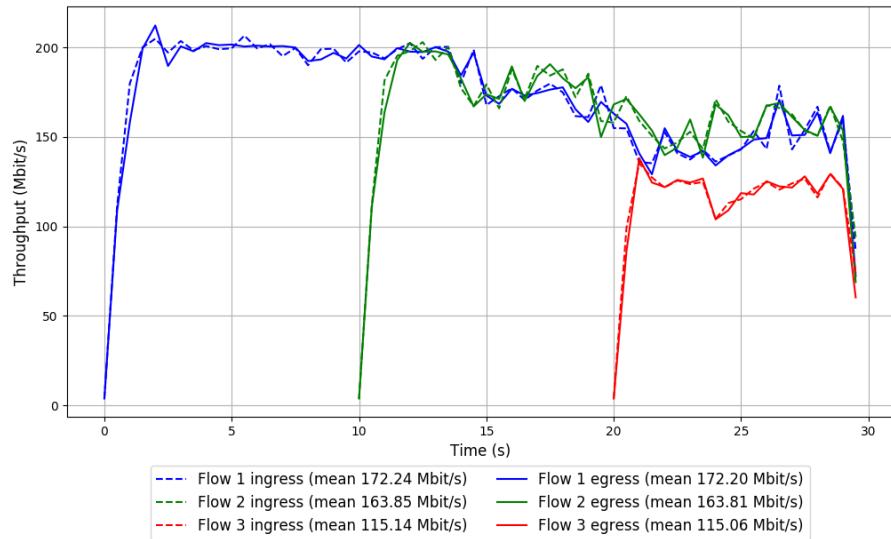
Run 4: Statistics of Indigo

Start at: 2018-01-09 20:59:38

End at: 2018-01-09 21:00:08

```
# Below is generated by plot.py at 2018-01-10 02:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.25 Mbit/s
95th percentile per-packet one-way delay: 50.794 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 172.20 Mbit/s
95th percentile per-packet one-way delay: 50.812 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 163.81 Mbit/s
95th percentile per-packet one-way delay: 50.741 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 115.06 Mbit/s
95th percentile per-packet one-way delay: 50.262 ms
Loss rate: 1.11%
```

Run 4: Report of Indigo — Data Link



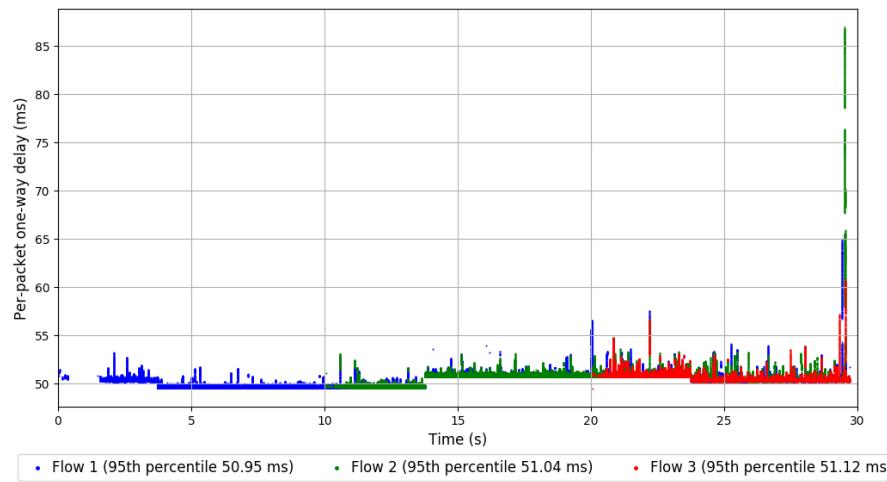
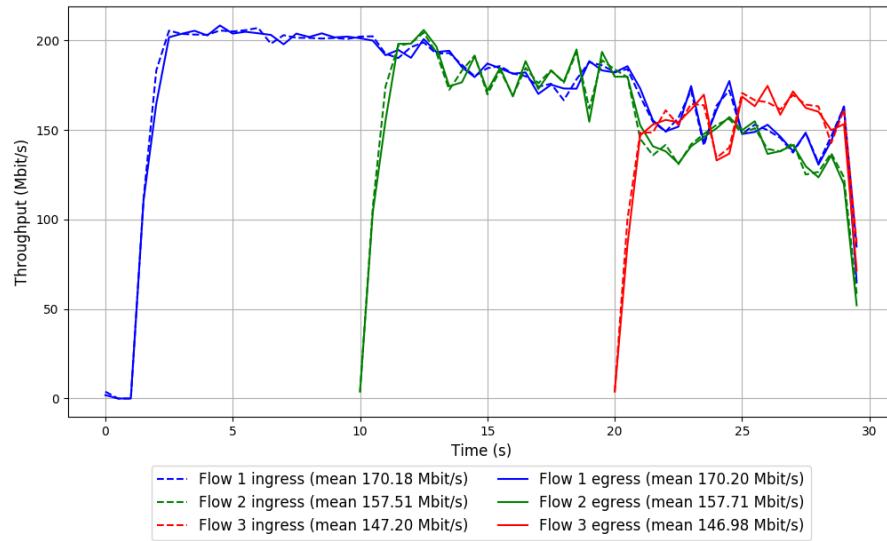
Run 5: Statistics of Indigo

Start at: 2018-01-09 21:13:57

End at: 2018-01-09 21:14:27

```
# Below is generated by plot.py at 2018-01-10 02:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.42 Mbit/s
95th percentile per-packet one-way delay: 51.001 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 170.20 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 157.71 Mbit/s
95th percentile per-packet one-way delay: 51.041 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 146.98 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 1.25%
```

Run 5: Report of Indigo — Data Link



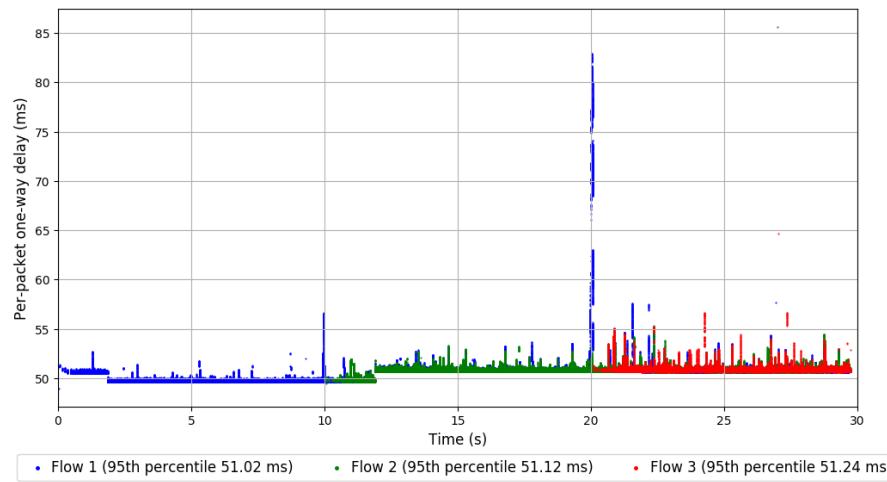
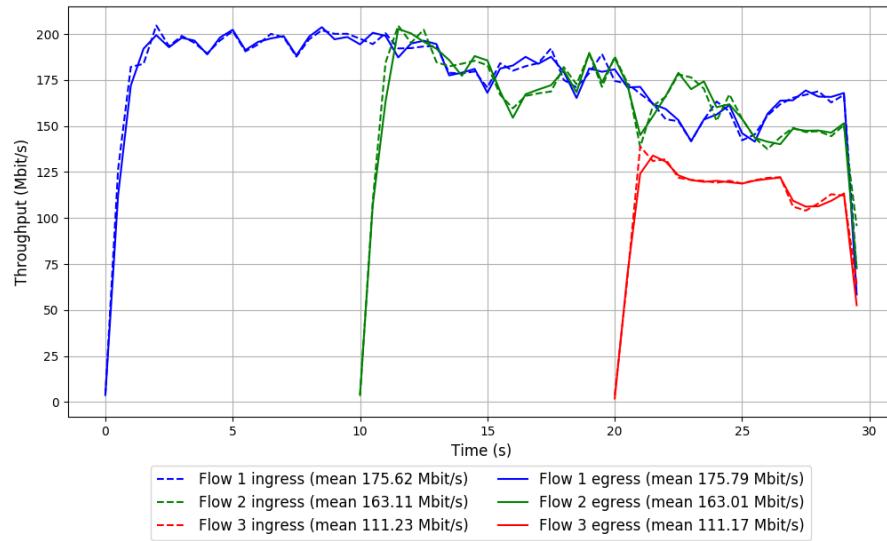
Run 6: Statistics of Indigo

Start at: 2018-01-09 21:28:19

End at: 2018-01-09 21:28:49

```
# Below is generated by plot.py at 2018-01-10 02:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.83 Mbit/s
95th percentile per-packet one-way delay: 51.083 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 175.79 Mbit/s
95th percentile per-packet one-way delay: 51.023 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 163.01 Mbit/s
95th percentile per-packet one-way delay: 51.116 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 111.17 Mbit/s
95th percentile per-packet one-way delay: 51.236 ms
Loss rate: 1.07%
```

Run 6: Report of Indigo — Data Link



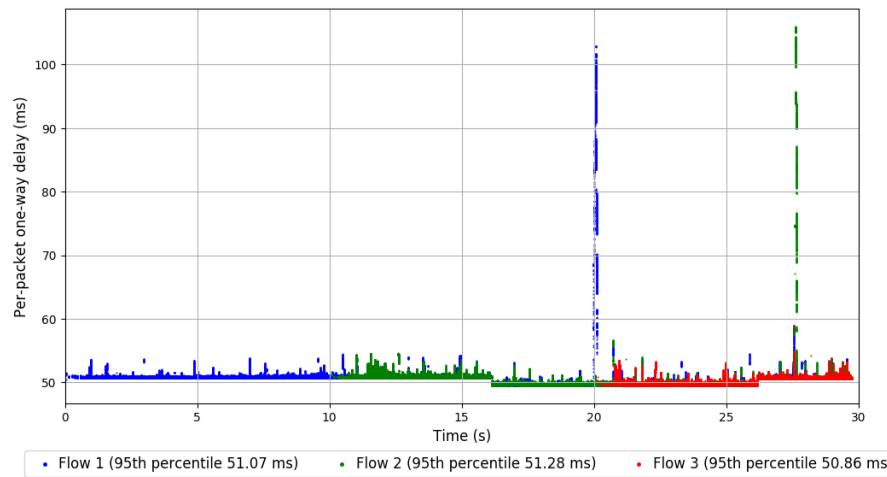
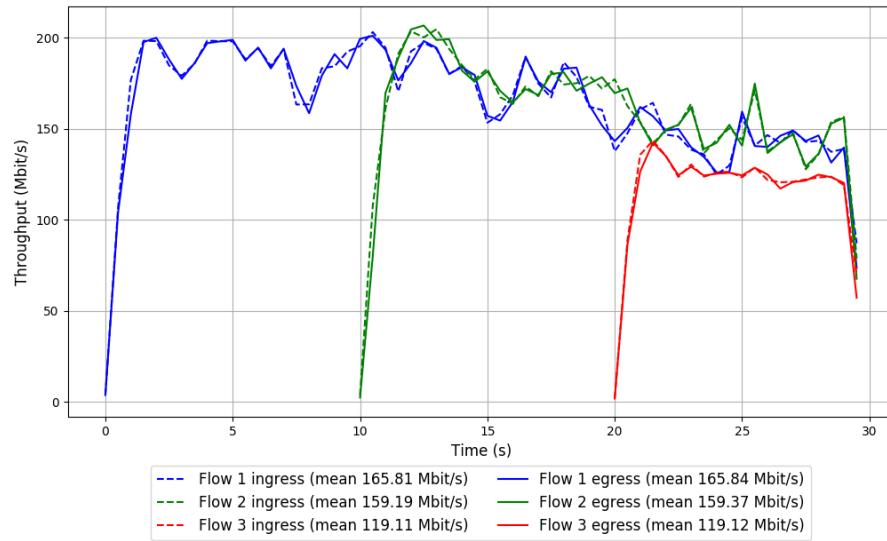
Run 7: Statistics of Indigo

Start at: 2018-01-09 21:42:34

End at: 2018-01-09 21:43:04

```
# Below is generated by plot.py at 2018-01-10 02:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.87 Mbit/s
95th percentile per-packet one-way delay: 51.118 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 165.84 Mbit/s
95th percentile per-packet one-way delay: 51.072 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 159.37 Mbit/s
95th percentile per-packet one-way delay: 51.276 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 119.12 Mbit/s
95th percentile per-packet one-way delay: 50.856 ms
Loss rate: 1.05%
```

Run 7: Report of Indigo — Data Link

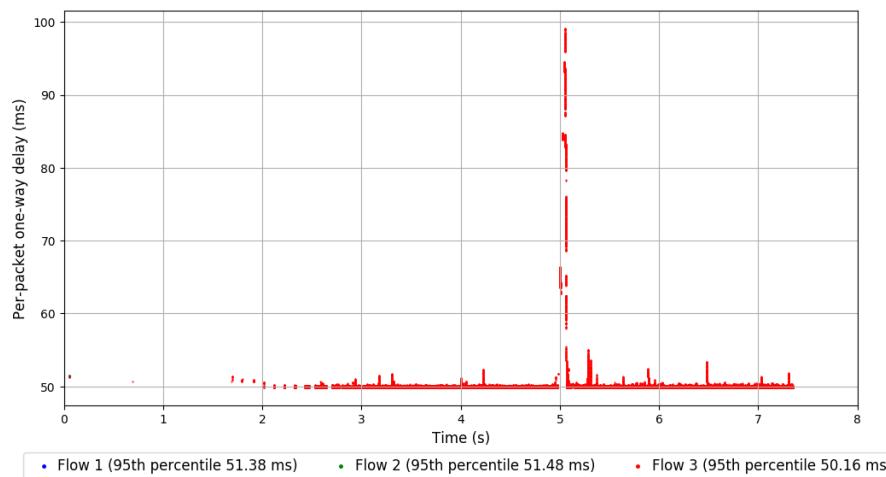
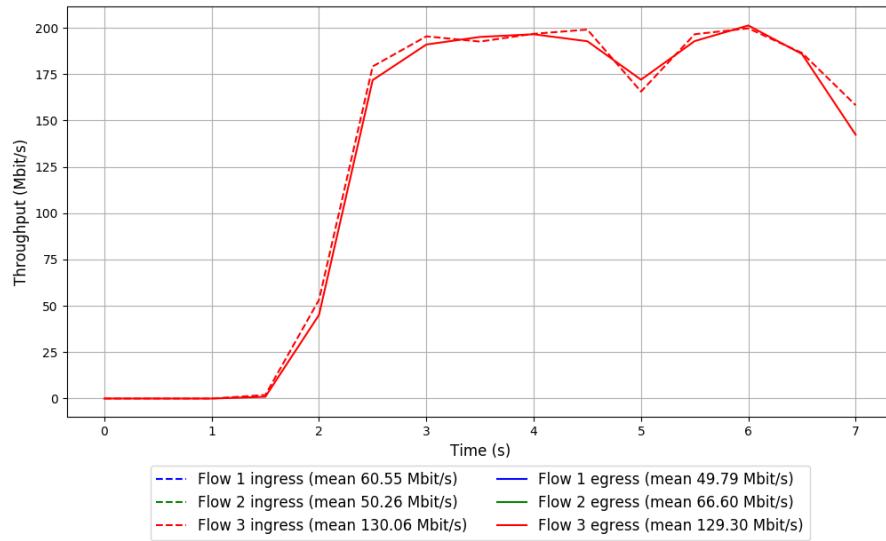


Run 8: Statistics of Indigo

Start at: 2018-01-09 21:56:16

End at: 2018-01-09 21:56:46

Run 8: Report of Indigo — Data Link



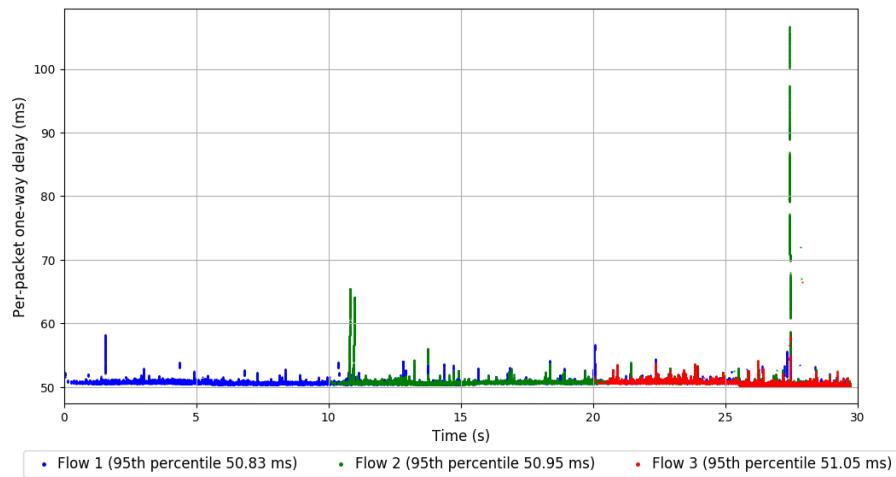
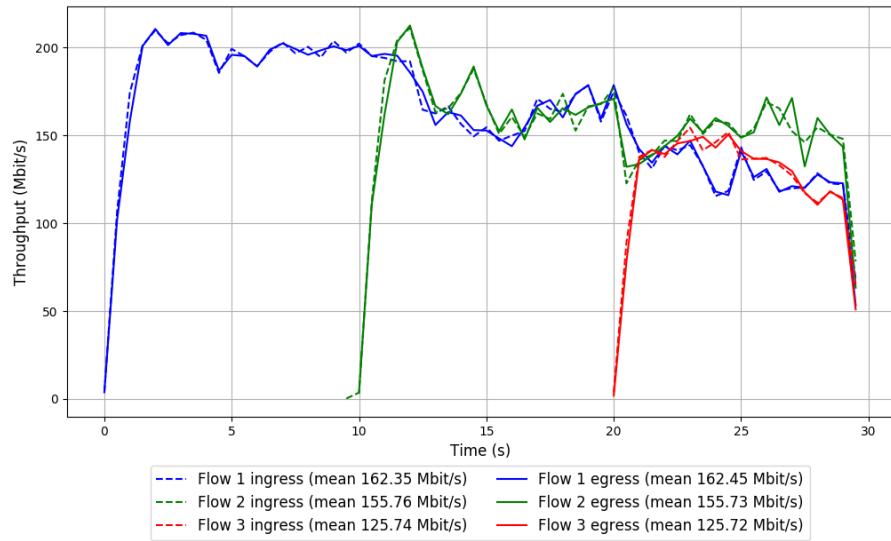
Run 9: Statistics of Indigo

Start at: 2018-01-09 22:10:05

End at: 2018-01-09 22:10:35

```
# Below is generated by plot.py at 2018-01-10 02:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.57 Mbit/s
95th percentile per-packet one-way delay: 50.890 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 162.45 Mbit/s
95th percentile per-packet one-way delay: 50.832 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 155.73 Mbit/s
95th percentile per-packet one-way delay: 50.946 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 125.72 Mbit/s
95th percentile per-packet one-way delay: 51.047 ms
Loss rate: 1.04%
```

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 22:24:24

End at: 2018-01-09 22:24:54

```
# Below is generated by plot.py at 2018-01-10 02:25:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.70 Mbit/s
95th percentile per-packet one-way delay: 50.742 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 175.95 Mbit/s
95th percentile per-packet one-way delay: 50.696 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 166.60 Mbit/s
95th percentile per-packet one-way delay: 50.762 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 124.06 Mbit/s
95th percentile per-packet one-way delay: 50.932 ms
Loss rate: 1.05%
```

Run 10: Report of Indigo — Data Link

