

Pantheon Report

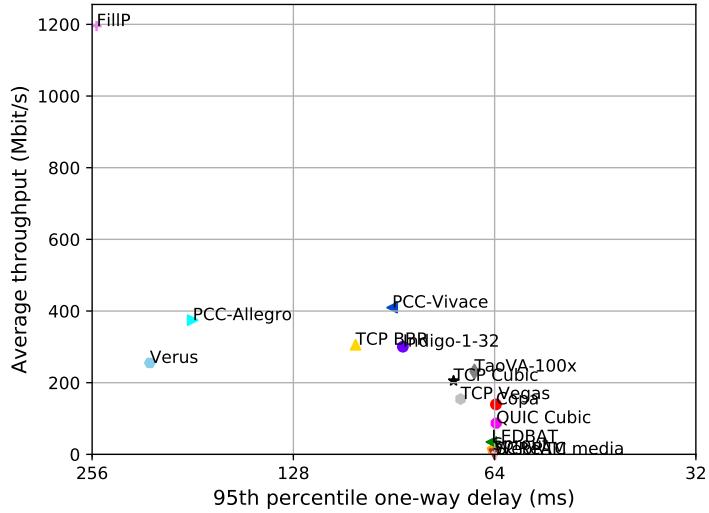
Generated at 2018-04-19 04:36:22 (UTC).
Data path: GCE Iowa Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

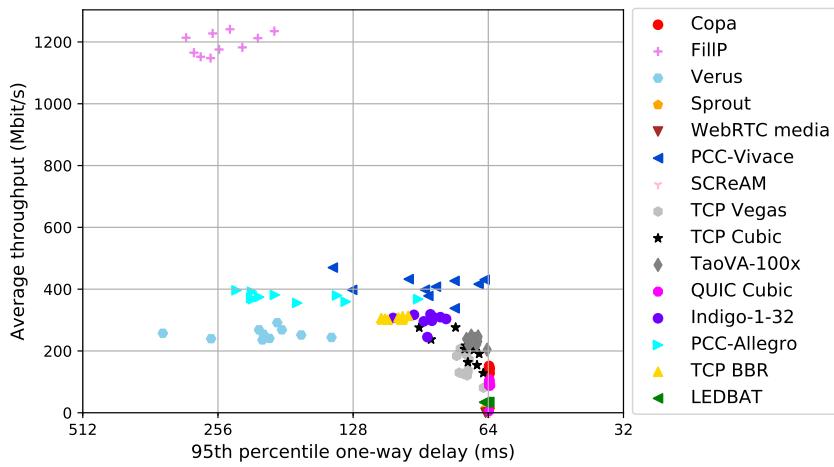
Git summary:

```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bf7e49737437f61b1eaeeb30b267cde681
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/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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

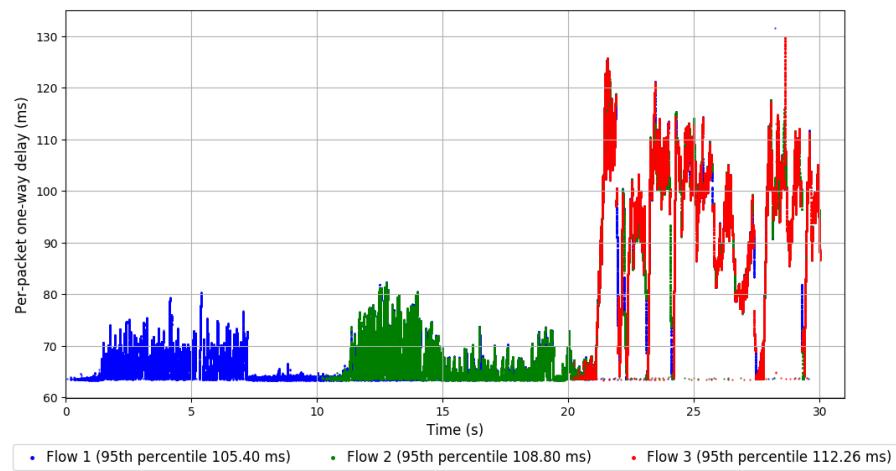
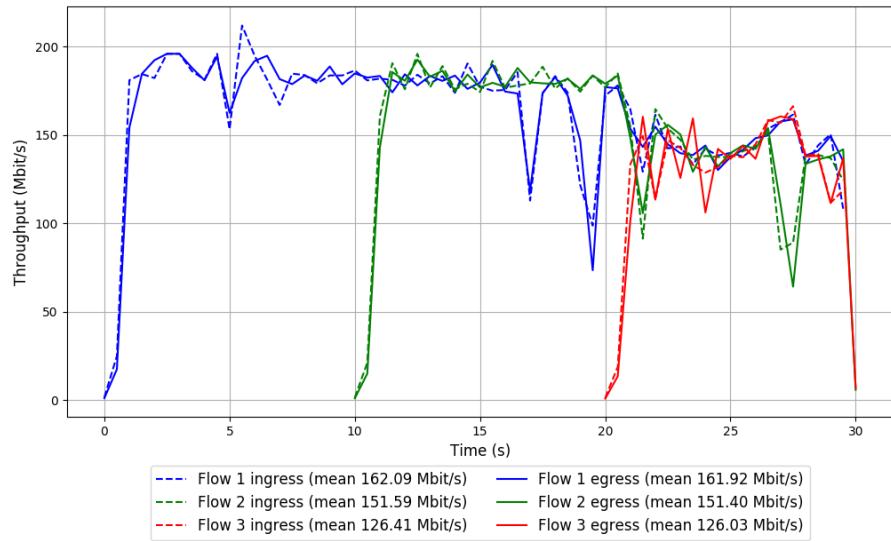



```
Run 1: Statistics of TCP BBR

Start at: 2018-04-18 22:28:51
End at: 2018-04-18 22:29:21

# Below is generated by plot.py at 2018-04-19 03:01:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.36 Mbit/s
95th percentile per-packet one-way delay: 108.638 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 161.92 Mbit/s
95th percentile per-packet one-way delay: 105.403 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 151.40 Mbit/s
95th percentile per-packet one-way delay: 108.802 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 126.03 Mbit/s
95th percentile per-packet one-way delay: 112.264 ms
Loss rate: 0.32%
```

Run 1: Report of TCP BBR — Data Link



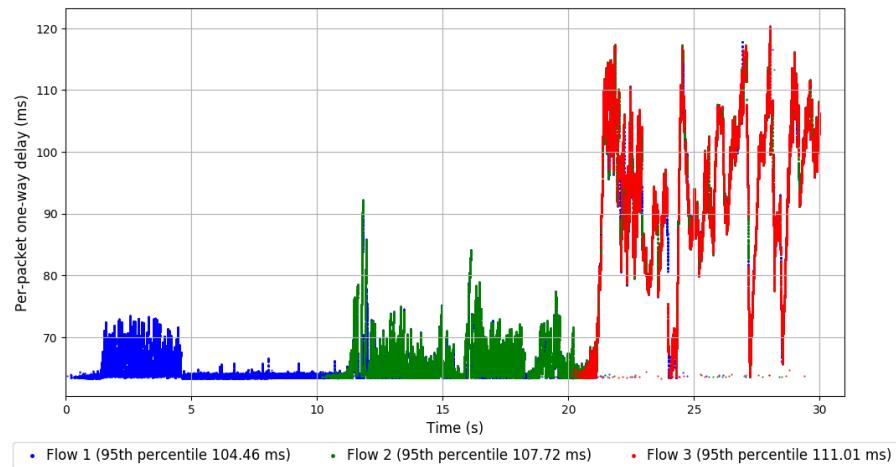
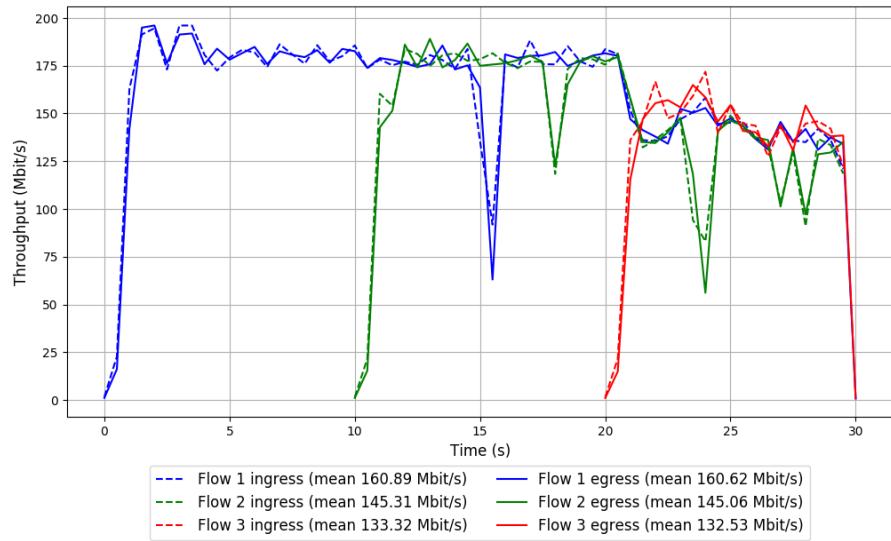
Run 2: Statistics of TCP BBR

Start at: 2018-04-18 22:44:33

End at: 2018-04-18 22:45:03

```
# Below is generated by plot.py at 2018-04-19 03:01:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.08 Mbit/s
95th percentile per-packet one-way delay: 107.142 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 160.62 Mbit/s
95th percentile per-packet one-way delay: 104.456 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 145.06 Mbit/s
95th percentile per-packet one-way delay: 107.717 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 132.53 Mbit/s
95th percentile per-packet one-way delay: 111.011 ms
Loss rate: 0.50%
```

Run 2: Report of TCP BBR — Data Link



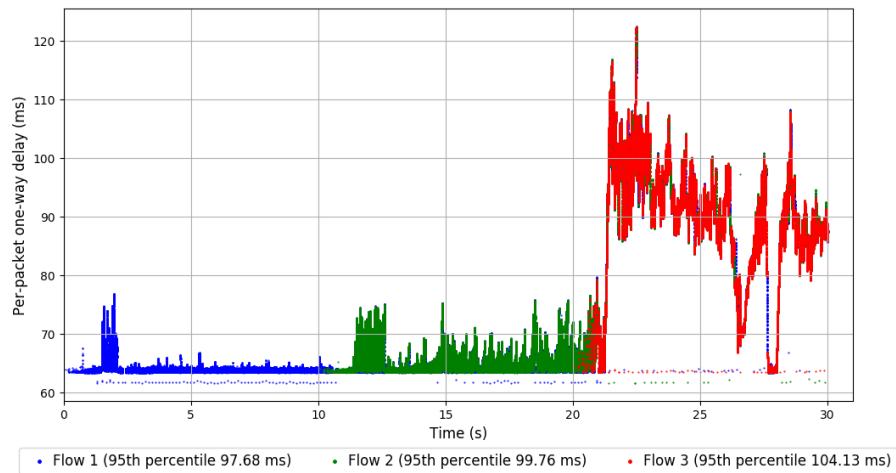
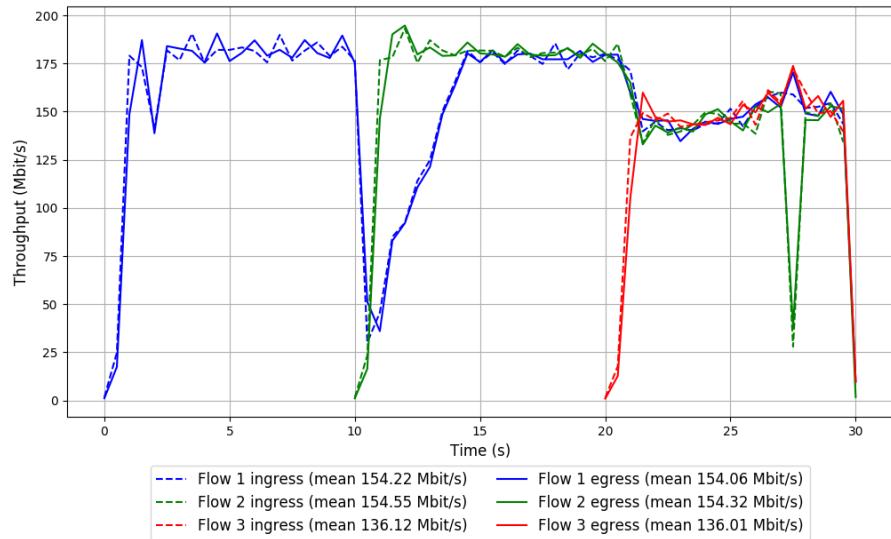
Run 3: Statistics of TCP BBR

Start at: 2018-04-18 23:00:17

End at: 2018-04-18 23:00:47

```
# Below is generated by plot.py at 2018-04-19 03:01:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.96 Mbit/s
95th percentile per-packet one-way delay: 100.064 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 154.06 Mbit/s
95th percentile per-packet one-way delay: 97.679 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 154.32 Mbit/s
95th percentile per-packet one-way delay: 99.756 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 136.01 Mbit/s
95th percentile per-packet one-way delay: 104.128 ms
Loss rate: 0.07%
```

Run 3: Report of TCP BBR — Data Link



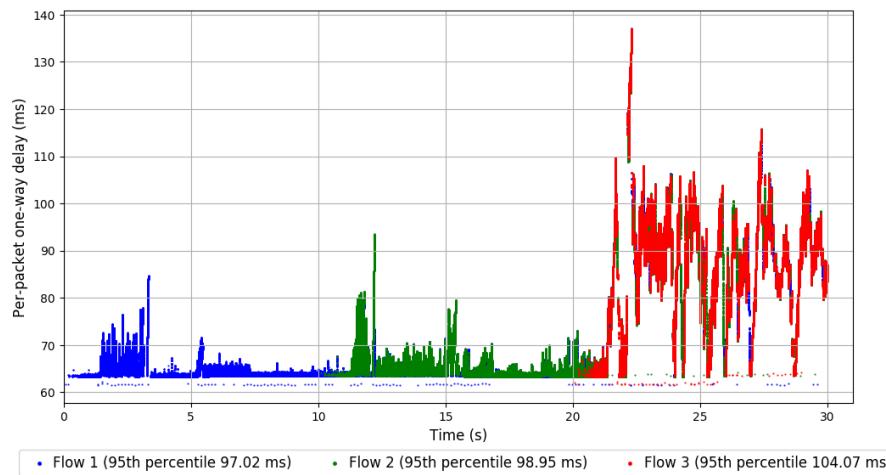
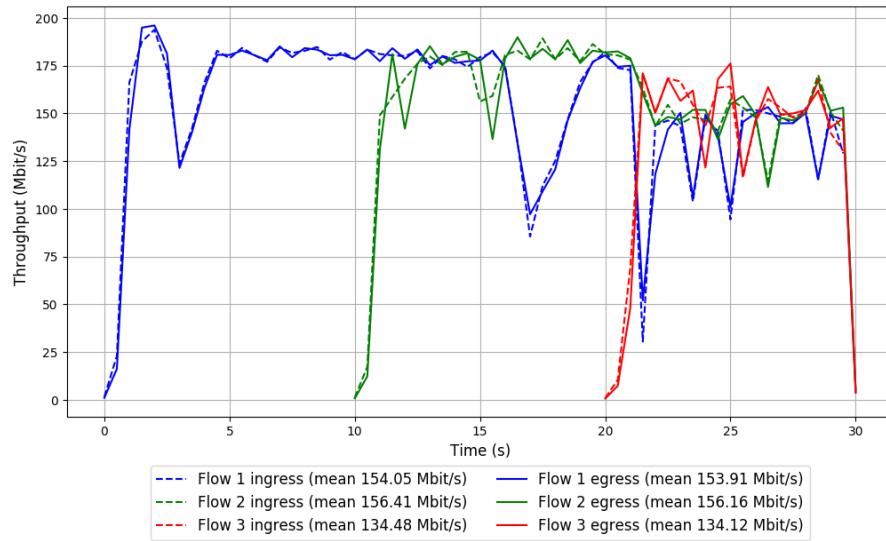
Run 4: Statistics of TCP BBR

Start at: 2018-04-18 23:15:55

End at: 2018-04-18 23:16:25

```
# Below is generated by plot.py at 2018-04-19 03:01:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 302.16 Mbit/s
95th percentile per-packet one-way delay: 99.492 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 153.91 Mbit/s
95th percentile per-packet one-way delay: 97.024 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 156.16 Mbit/s
95th percentile per-packet one-way delay: 98.947 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 134.12 Mbit/s
95th percentile per-packet one-way delay: 104.069 ms
Loss rate: 0.26%
```

Run 4: Report of TCP BBR — Data Link



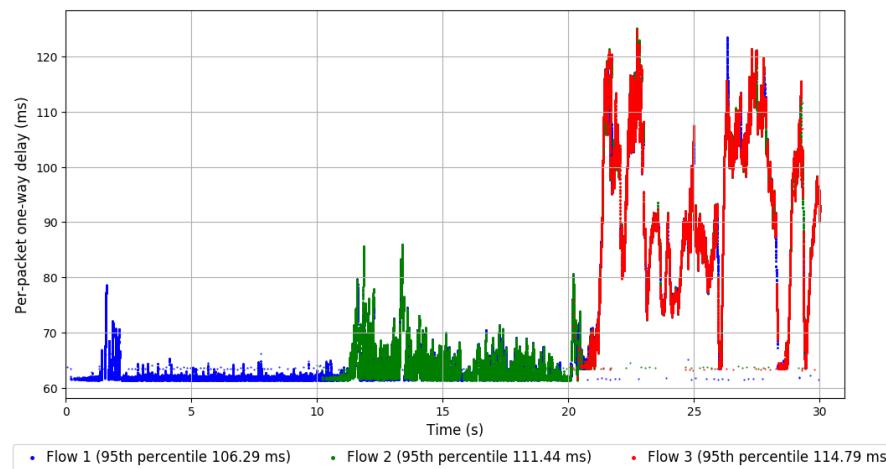
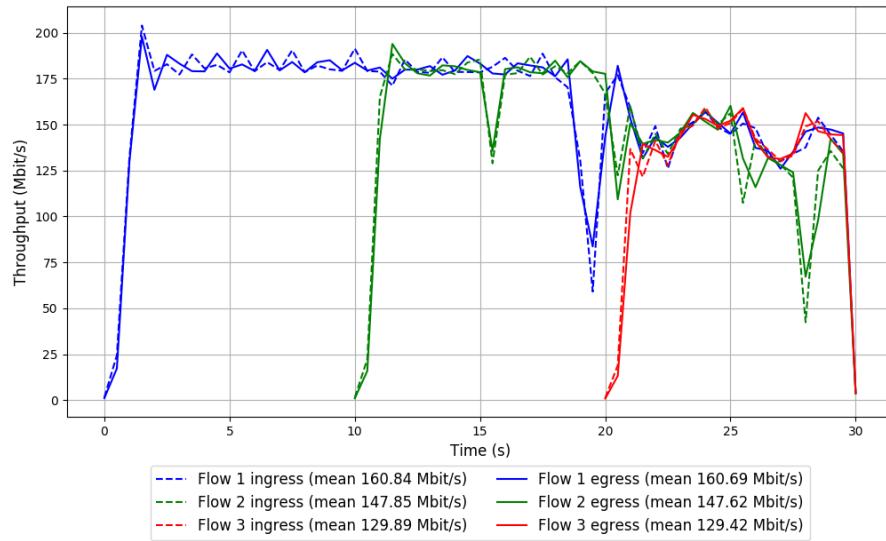
Run 5: Statistics of TCP BBR

Start at: 2018-04-18 23:31:30

End at: 2018-04-18 23:32:00

```
# Below is generated by plot.py at 2018-04-19 03:01:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.85 Mbit/s
95th percentile per-packet one-way delay: 110.321 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 160.69 Mbit/s
95th percentile per-packet one-way delay: 106.291 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 147.62 Mbit/s
95th percentile per-packet one-way delay: 111.443 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 129.42 Mbit/s
95th percentile per-packet one-way delay: 114.786 ms
Loss rate: 0.36%
```

Run 5: Report of TCP BBR — Data Link



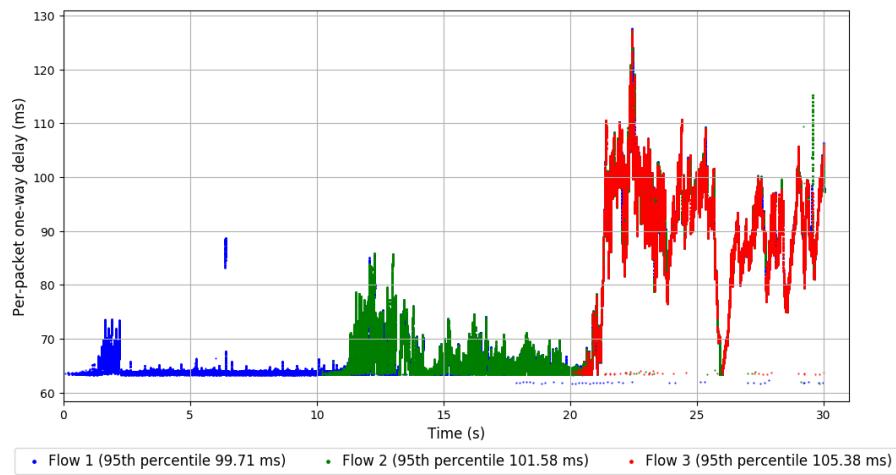
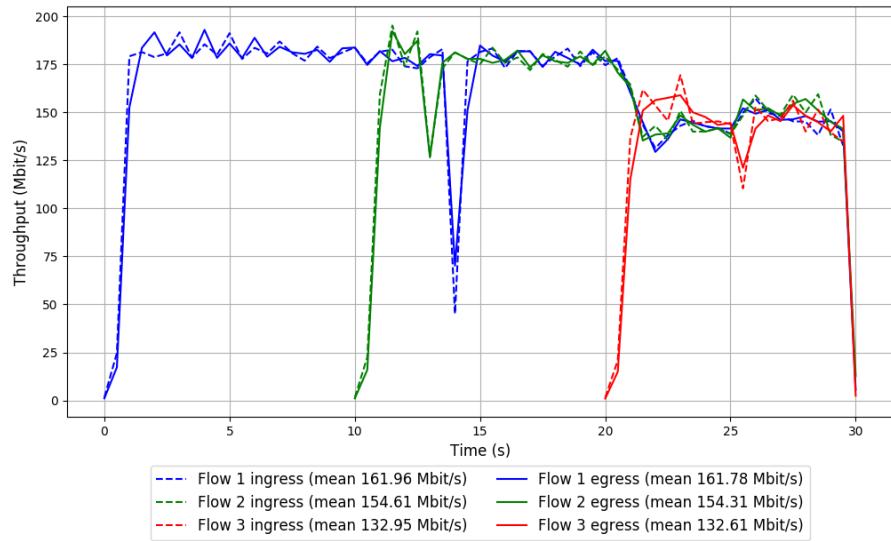
Run 6: Statistics of TCP BBR

Start at: 2018-04-18 23:47:11

End at: 2018-04-18 23:47:41

```
# Below is generated by plot.py at 2018-04-19 03:01:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.53 Mbit/s
95th percentile per-packet one-way delay: 101.506 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 161.78 Mbit/s
95th percentile per-packet one-way delay: 99.706 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 154.31 Mbit/s
95th percentile per-packet one-way delay: 101.581 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 132.61 Mbit/s
95th percentile per-packet one-way delay: 105.380 ms
Loss rate: 0.42%
```

Run 6: Report of TCP BBR — Data Link



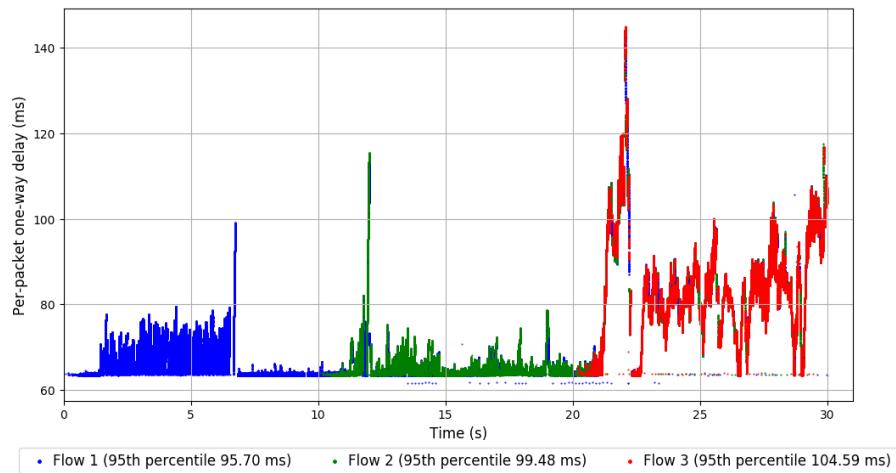
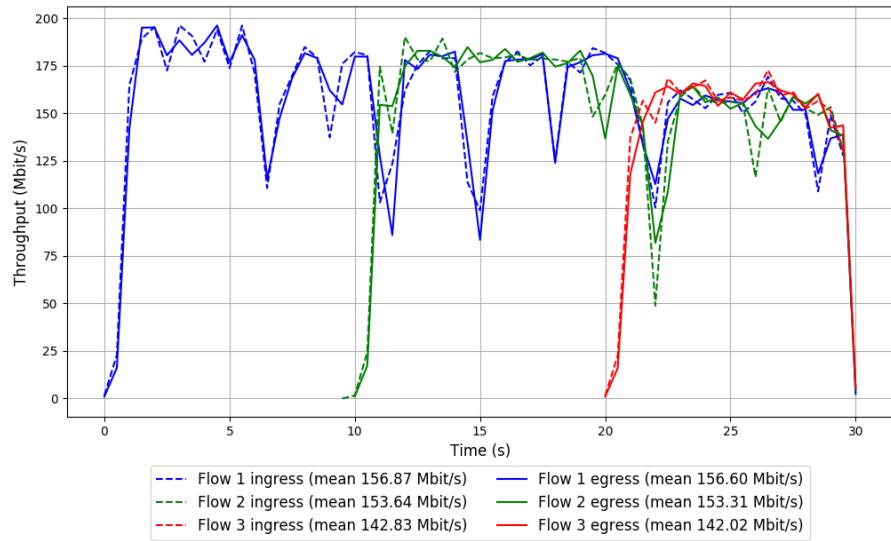
Run 7: Statistics of TCP BBR

Start at: 2018-04-19 00:02:55

End at: 2018-04-19 00:03:25

```
# Below is generated by plot.py at 2018-04-19 03:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.88 Mbit/s
95th percentile per-packet one-way delay: 99.255 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 156.60 Mbit/s
95th percentile per-packet one-way delay: 95.700 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 153.31 Mbit/s
95th percentile per-packet one-way delay: 99.483 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 142.02 Mbit/s
95th percentile per-packet one-way delay: 104.589 ms
Loss rate: 0.37%
```

Run 7: Report of TCP BBR — Data Link



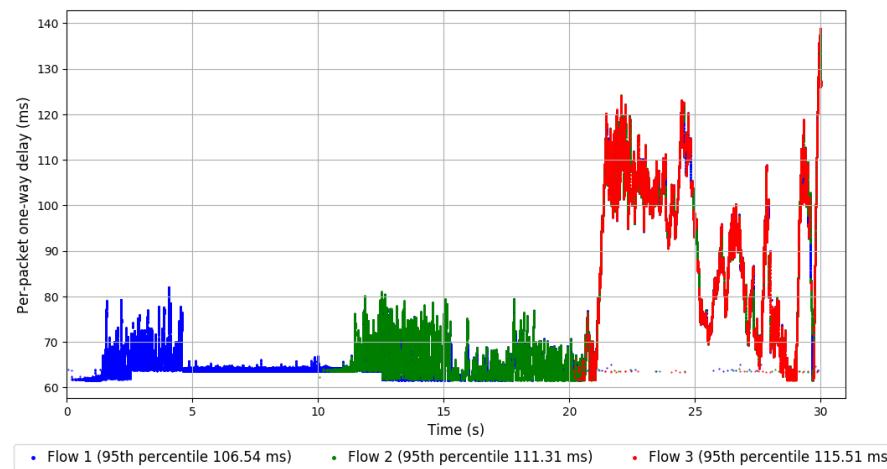
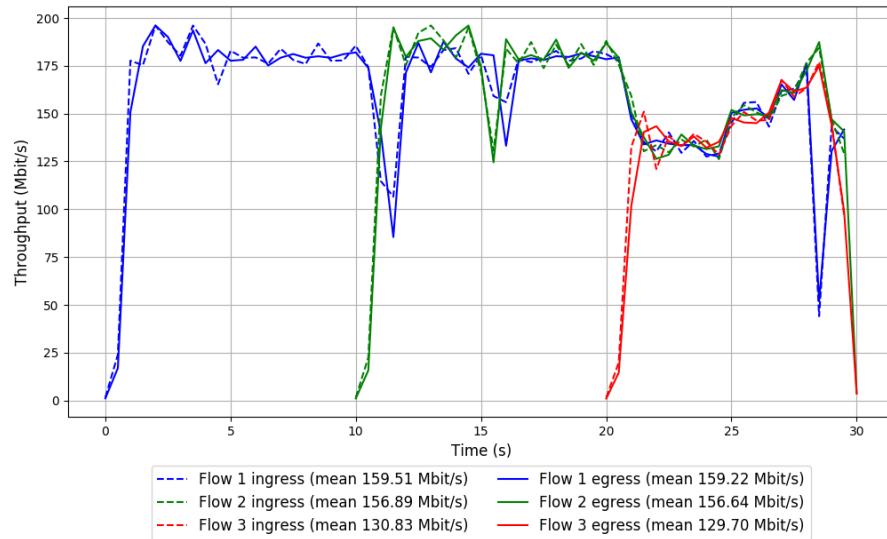
Run 8: Statistics of TCP BBR

Start at: 2018-04-19 00:18:38

End at: 2018-04-19 00:19:08

```
# Below is generated by plot.py at 2018-04-19 03:01:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.42 Mbit/s
95th percentile per-packet one-way delay: 110.826 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 159.22 Mbit/s
95th percentile per-packet one-way delay: 106.539 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 156.64 Mbit/s
95th percentile per-packet one-way delay: 111.312 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 129.70 Mbit/s
95th percentile per-packet one-way delay: 115.513 ms
Loss rate: 0.72%
```

Run 8: Report of TCP BBR — Data Link



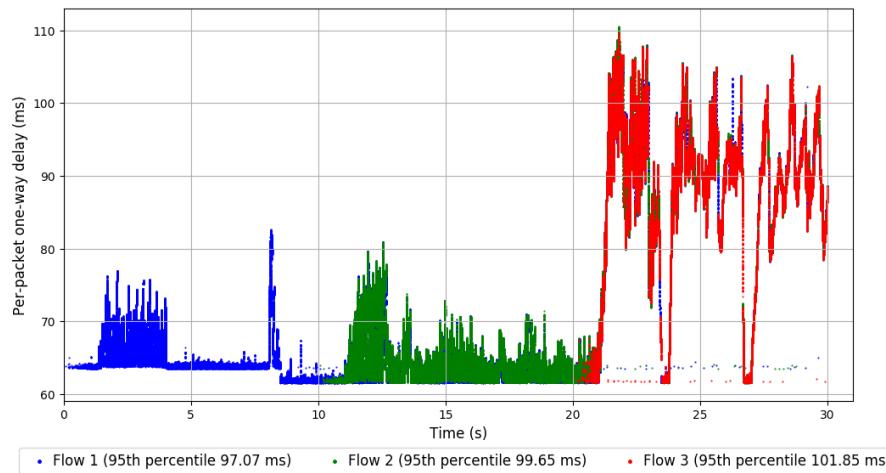
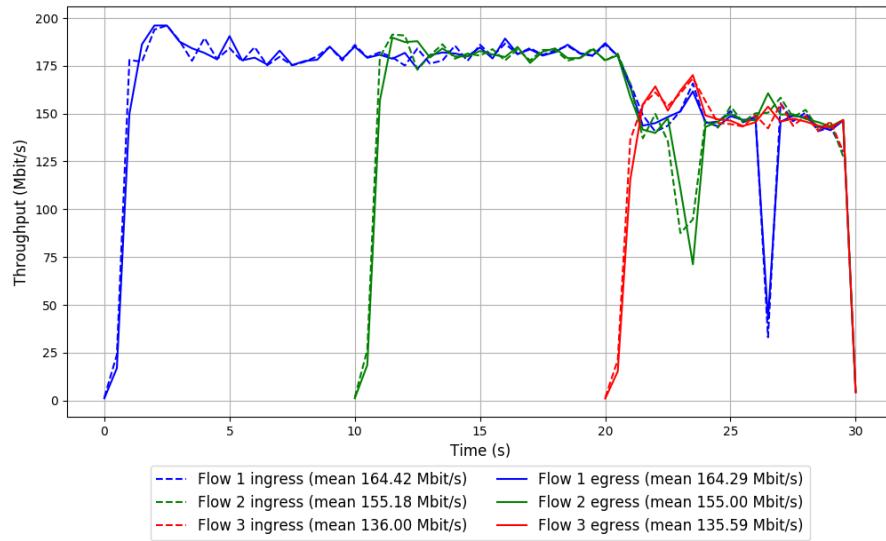
Run 9: Statistics of TCP BBR

Start at: 2018-04-19 00:34:02

End at: 2018-04-19 00:34:32

```
# Below is generated by plot.py at 2018-04-19 03:07:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.53 Mbit/s
95th percentile per-packet one-way delay: 99.325 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 164.29 Mbit/s
95th percentile per-packet one-way delay: 97.069 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 155.00 Mbit/s
95th percentile per-packet one-way delay: 99.652 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 135.59 Mbit/s
95th percentile per-packet one-way delay: 101.854 ms
Loss rate: 0.28%
```

Run 9: Report of TCP BBR — Data Link



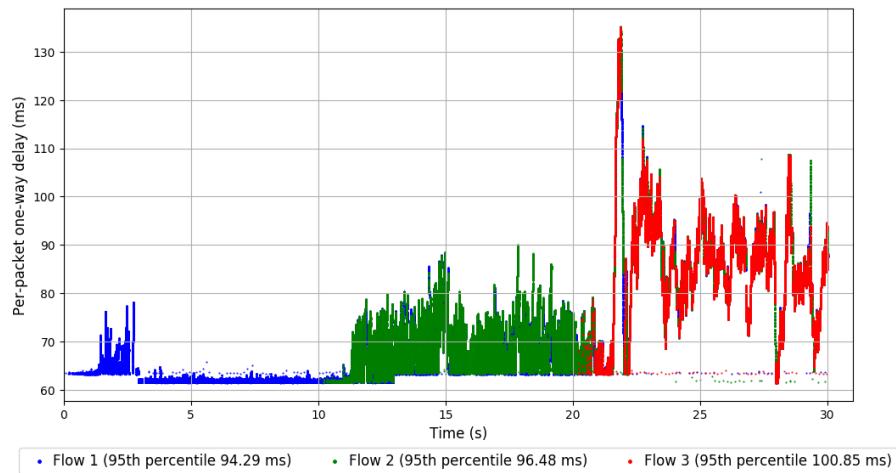
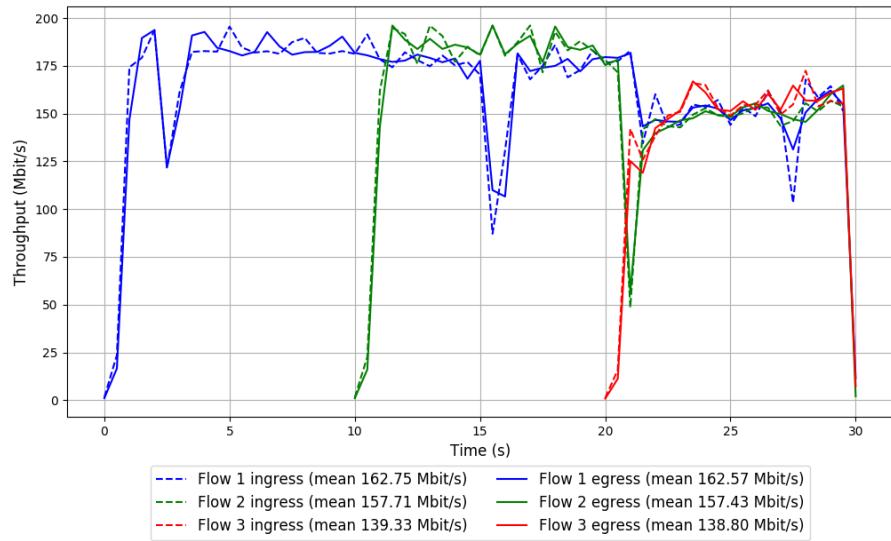
Run 10: Statistics of TCP BBR

Start at: 2018-04-19 00:49:28

End at: 2018-04-19 00:49:58

```
# Below is generated by plot.py at 2018-04-19 03:07:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.42 Mbit/s
95th percentile per-packet one-way delay: 96.528 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 162.57 Mbit/s
95th percentile per-packet one-way delay: 94.288 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 157.43 Mbit/s
95th percentile per-packet one-way delay: 96.477 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 138.80 Mbit/s
95th percentile per-packet one-way delay: 100.849 ms
Loss rate: 0.38%
```

Run 10: Report of TCP BBR — Data Link

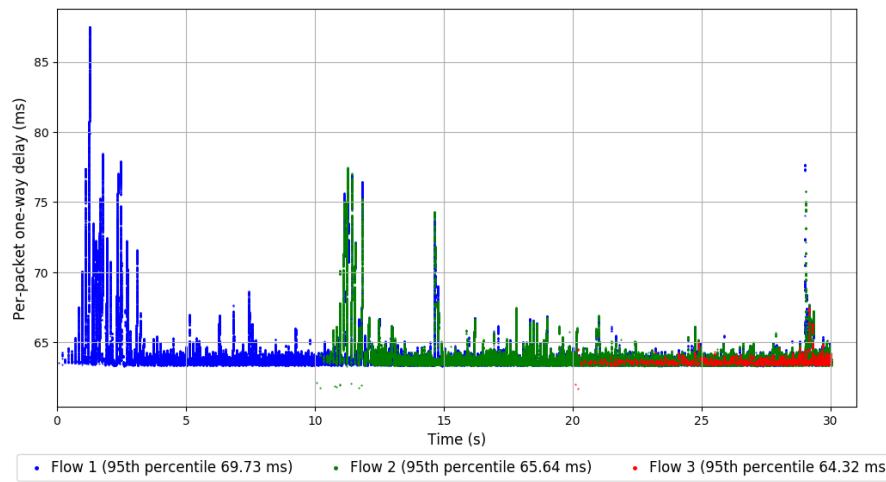
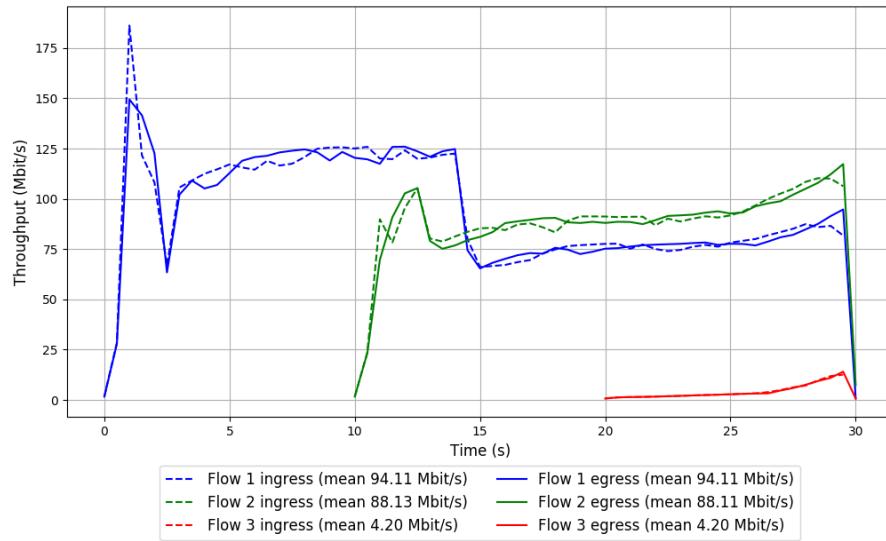


```
Run 1: Statistics of TCP Cubic

Start at: 2018-04-18 22:16:00
End at: 2018-04-18 22:16:30

# Below is generated by plot.py at 2018-04-19 03:07:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 154.15 Mbit/s
95th percentile per-packet one-way delay: 67.818 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.11 Mbit/s
95th percentile per-packet one-way delay: 69.728 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 65.635 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 64.319 ms
Loss rate: 0.12%
```

Run 1: Report of TCP Cubic — Data Link



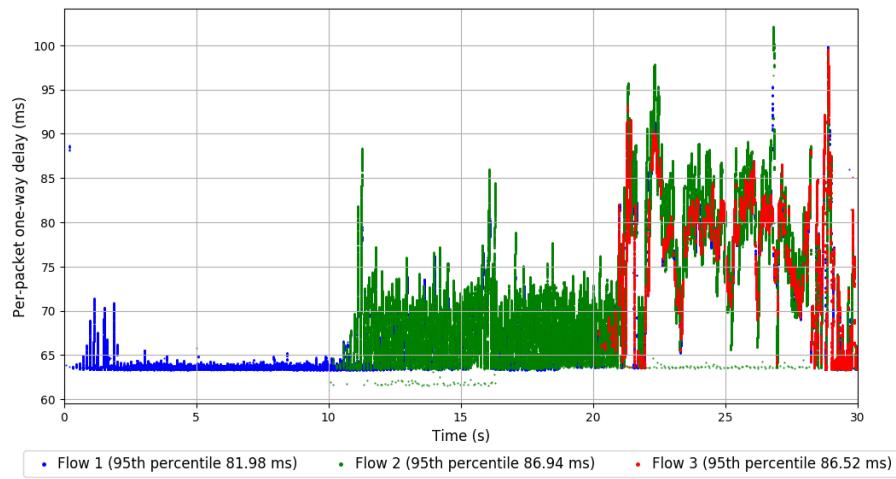
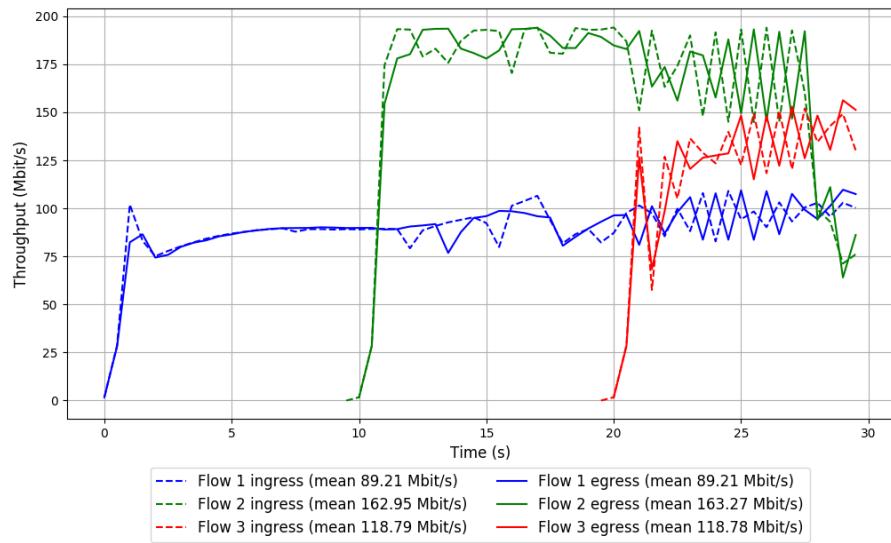
Run 2: Statistics of TCP Cubic

Start at: 2018-04-18 22:31:22

End at: 2018-04-18 22:31:52

```
# Below is generated by plot.py at 2018-04-19 03:07:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.17 Mbit/s
95th percentile per-packet one-way delay: 85.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 81.983 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 163.27 Mbit/s
95th percentile per-packet one-way delay: 86.940 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 118.78 Mbit/s
95th percentile per-packet one-way delay: 86.522 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Cubic — Data Link



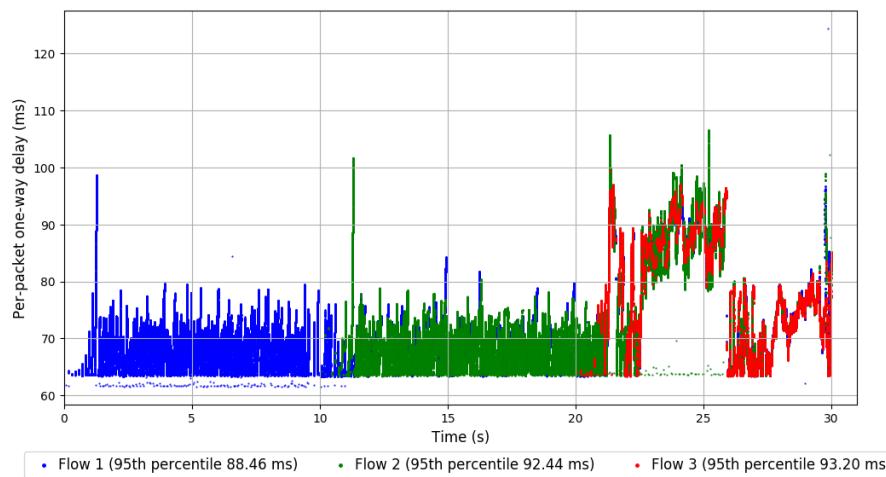
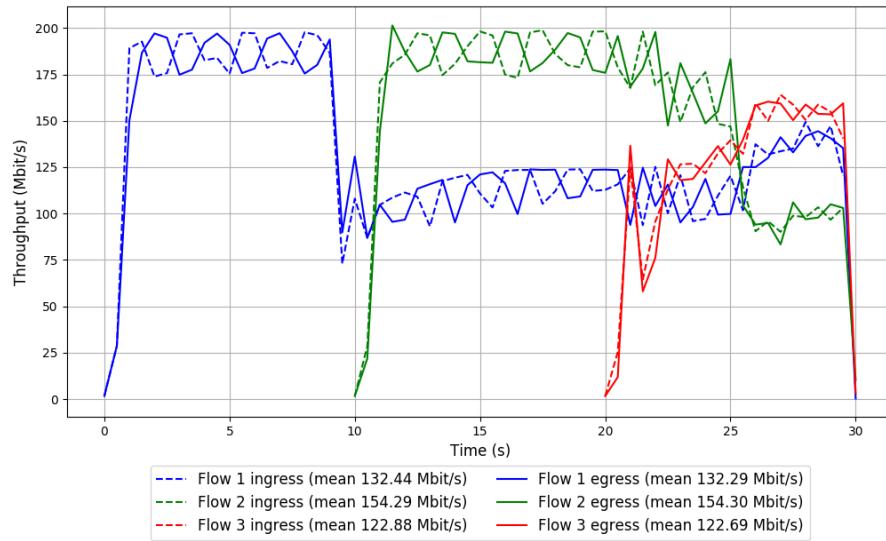
```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2018-04-18 22:47:09
```

```
End at: 2018-04-18 22:47:39
```

```
# Below is generated by plot.py at 2018-04-19 03:07:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.69 Mbit/s
95th percentile per-packet one-way delay: 91.211 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 132.29 Mbit/s
95th percentile per-packet one-way delay: 88.461 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 154.30 Mbit/s
95th percentile per-packet one-way delay: 92.435 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.69 Mbit/s
95th percentile per-packet one-way delay: 93.196 ms
Loss rate: 0.17%
```

Run 3: Report of TCP Cubic — Data Link



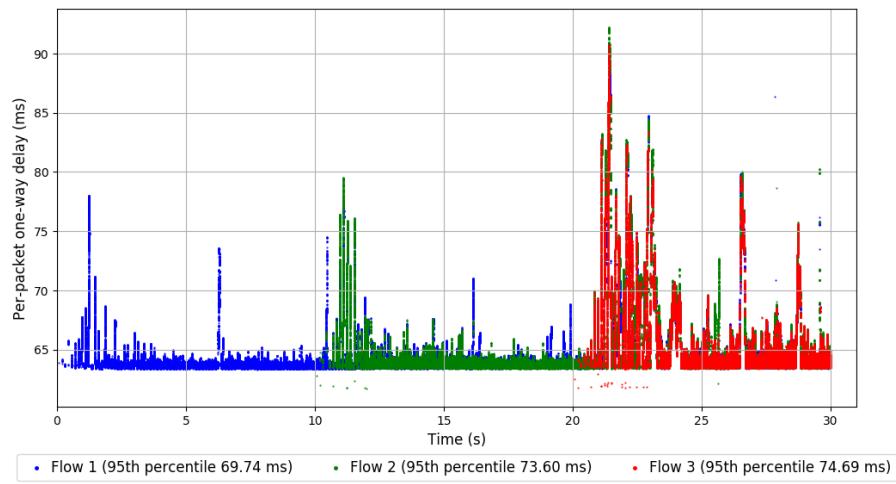
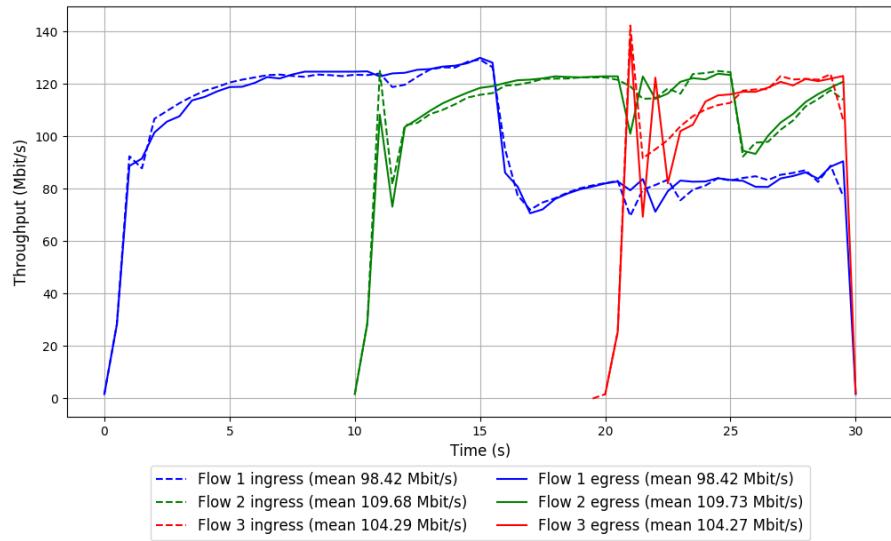
Run 4: Statistics of TCP Cubic

Start at: 2018-04-18 23:02:49

End at: 2018-04-18 23:03:19

```
# Below is generated by plot.py at 2018-04-19 03:07:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.10 Mbit/s
95th percentile per-packet one-way delay: 72.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 98.42 Mbit/s
95th percentile per-packet one-way delay: 69.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 109.73 Mbit/s
95th percentile per-packet one-way delay: 73.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 104.27 Mbit/s
95th percentile per-packet one-way delay: 74.691 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Cubic — Data Link



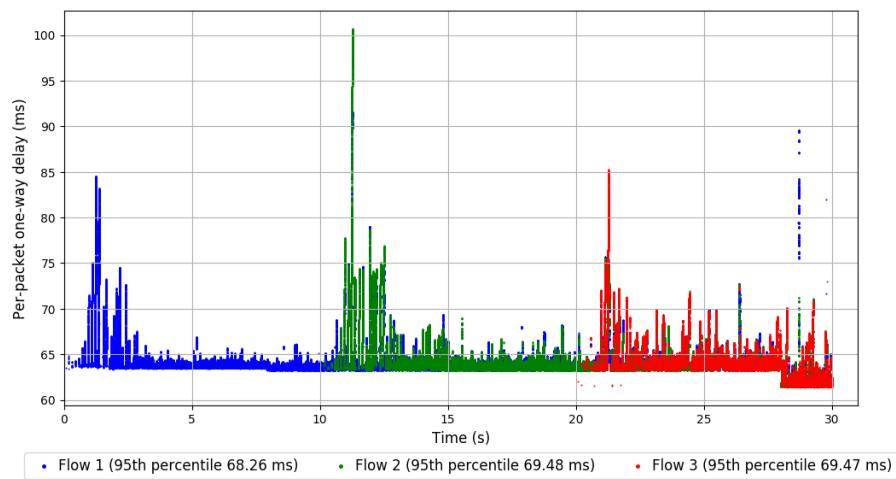
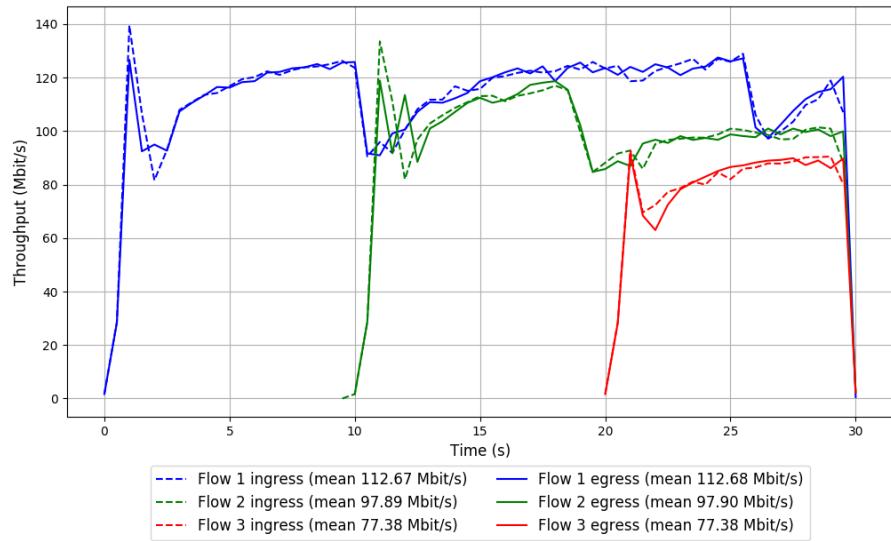
Run 5: Statistics of TCP Cubic

Start at: 2018-04-18 23:18:23

End at: 2018-04-18 23:18:53

```
# Below is generated by plot.py at 2018-04-19 03:07:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.54 Mbit/s
95th percentile per-packet one-way delay: 68.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 112.68 Mbit/s
95th percentile per-packet one-way delay: 68.257 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 97.90 Mbit/s
95th percentile per-packet one-way delay: 69.478 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.38 Mbit/s
95th percentile per-packet one-way delay: 69.465 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Cubic — Data Link



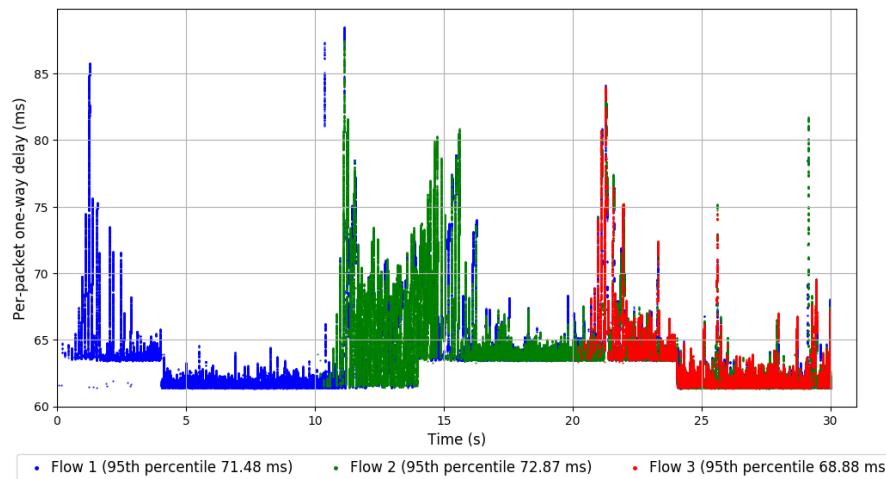
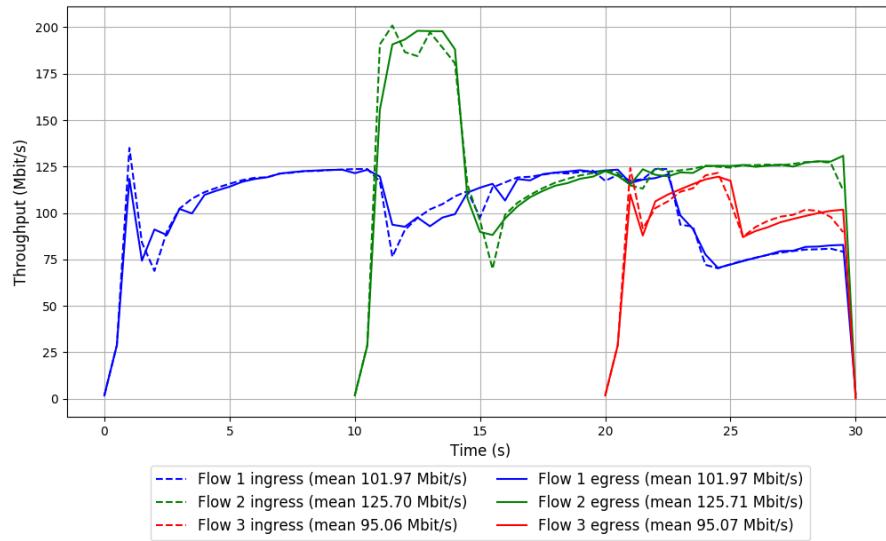
Run 6: Statistics of TCP Cubic

Start at: 2018-04-18 23:34:07

End at: 2018-04-18 23:34:37

```
# Below is generated by plot.py at 2018-04-19 03:07:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 217.15 Mbit/s
95th percentile per-packet one-way delay: 71.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.97 Mbit/s
95th percentile per-packet one-way delay: 71.483 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 125.71 Mbit/s
95th percentile per-packet one-way delay: 72.871 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 68.881 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Cubic — Data Link



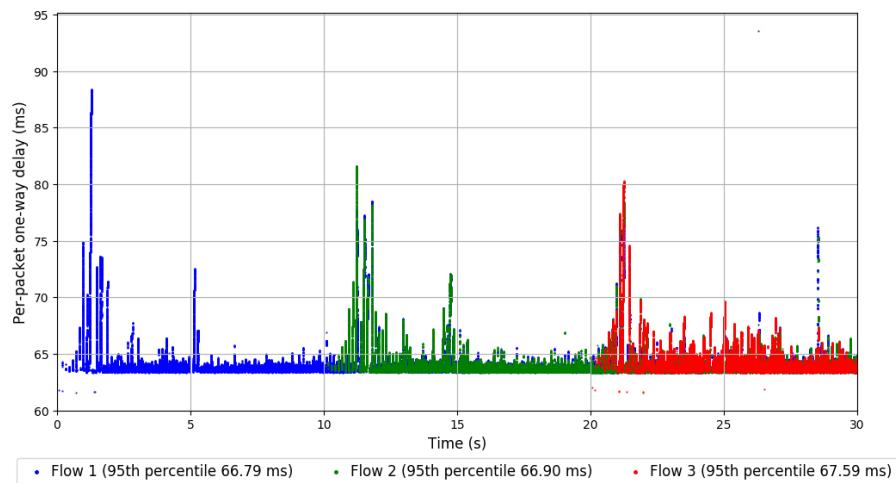
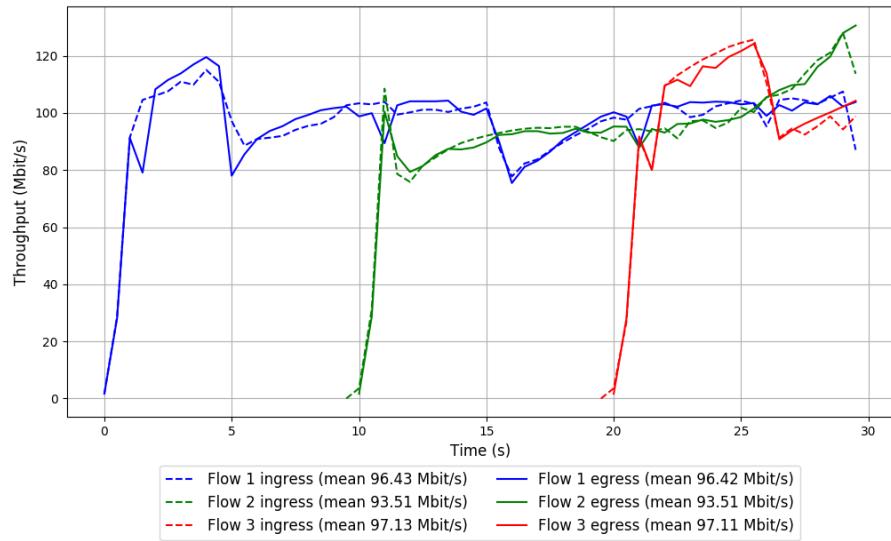
Run 7: Statistics of TCP Cubic

Start at: 2018-04-18 23:49:41

End at: 2018-04-18 23:50:11

```
# Below is generated by plot.py at 2018-04-19 03:08:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 190.95 Mbit/s
95th percentile per-packet one-way delay: 67.074 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 66.792 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 66.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 67.588 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Cubic — Data Link



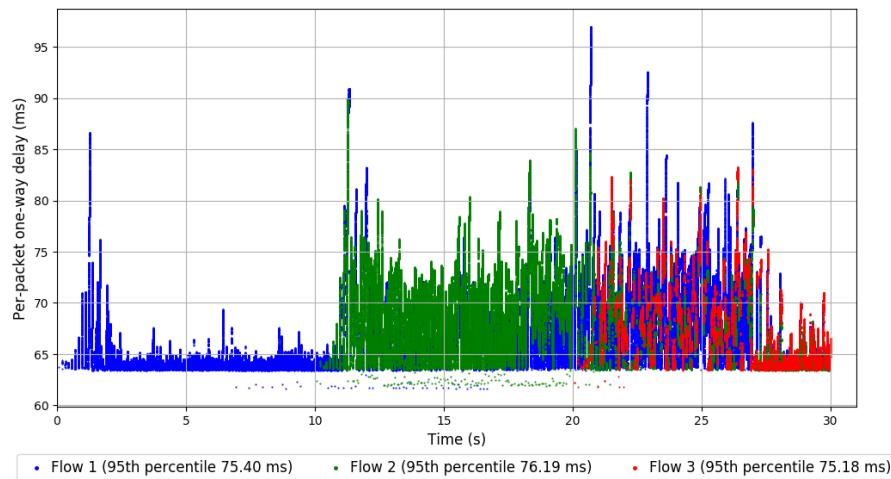
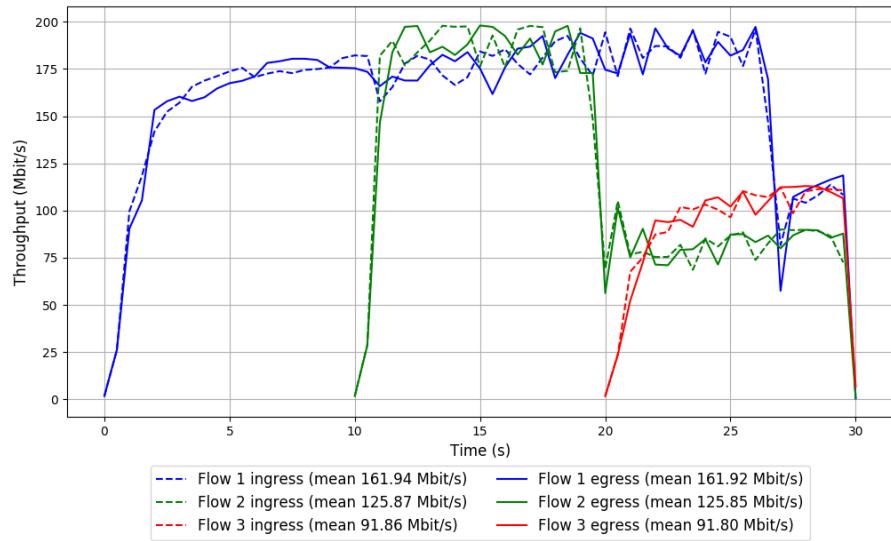
Run 8: Statistics of TCP Cubic

Start at: 2018-04-19 00:05:24

End at: 2018-04-19 00:05:54

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.17 Mbit/s
95th percentile per-packet one-way delay: 75.685 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 161.92 Mbit/s
95th percentile per-packet one-way delay: 75.404 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 125.85 Mbit/s
95th percentile per-packet one-way delay: 76.186 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 75.183 ms
Loss rate: 0.05%
```

Run 8: Report of TCP Cubic — Data Link

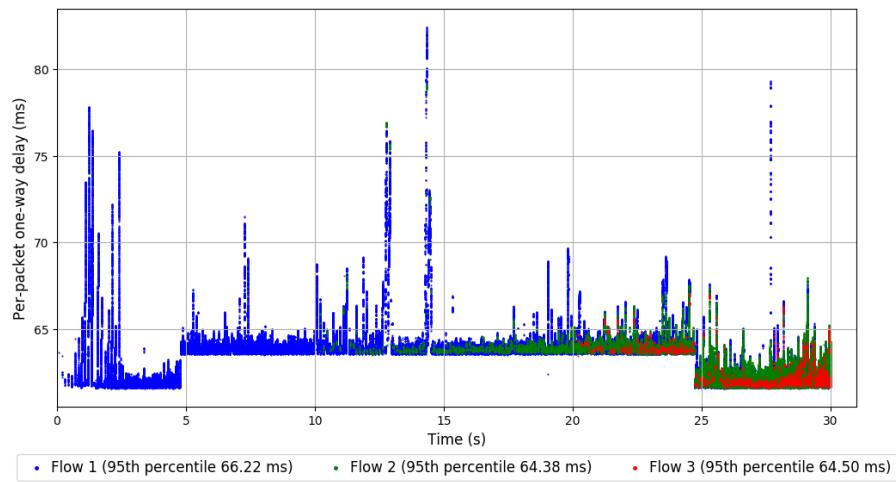
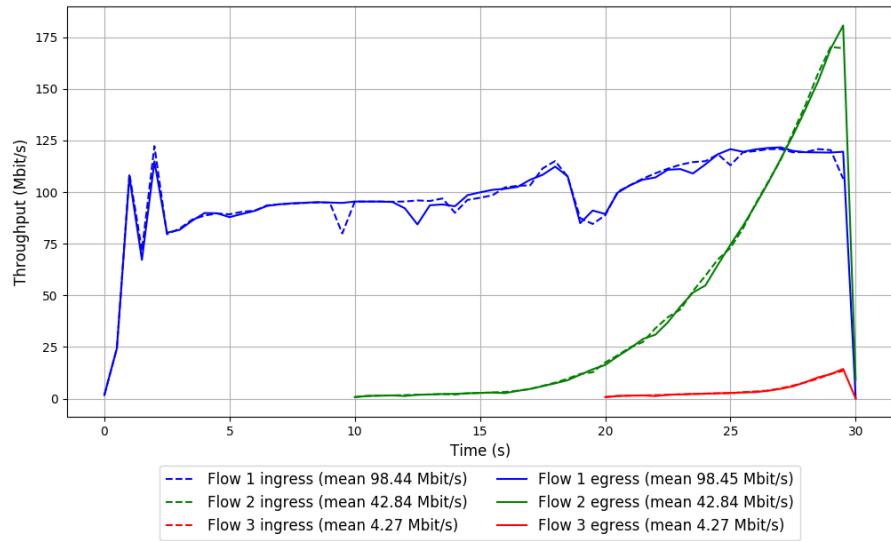


```
Run 9: Statistics of TCP Cubic

Start at: 2018-04-19 00:21:06
End at: 2018-04-19 00:21:36

# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.38 Mbit/s
95th percentile per-packet one-way delay: 65.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 98.45 Mbit/s
95th percentile per-packet one-way delay: 66.217 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.84 Mbit/s
95th percentile per-packet one-way delay: 64.384 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 64.498 ms
Loss rate: 0.11%
```

Run 9: Report of TCP Cubic — Data Link



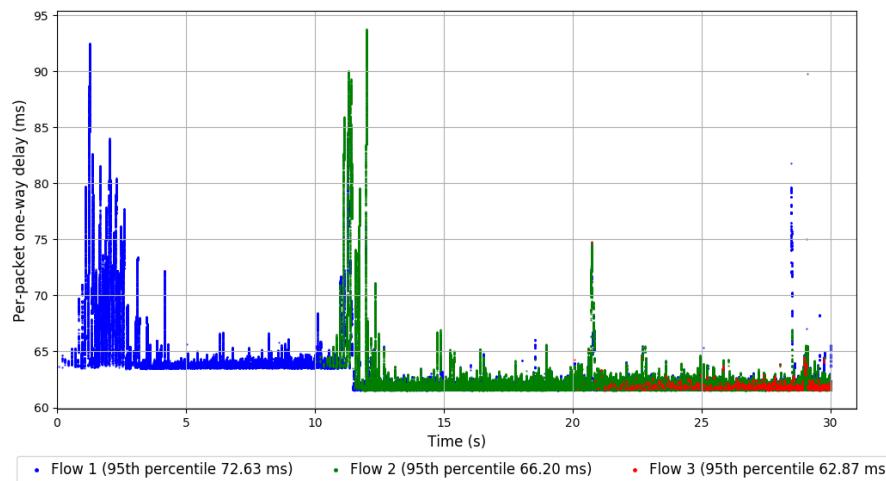
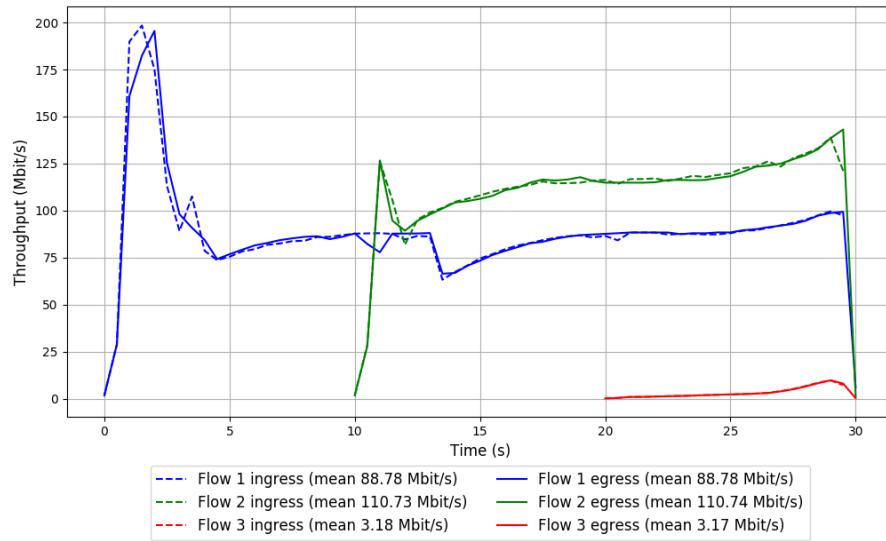
Run 10: Statistics of TCP Cubic

Start at: 2018-04-19 00:36:29

End at: 2018-04-19 00:36:59

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 163.56 Mbit/s
95th percentile per-packet one-way delay: 71.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.78 Mbit/s
95th percentile per-packet one-way delay: 72.631 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 110.74 Mbit/s
95th percentile per-packet one-way delay: 66.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 62.868 ms
Loss rate: 0.42%
```

Run 10: Report of TCP Cubic — Data Link

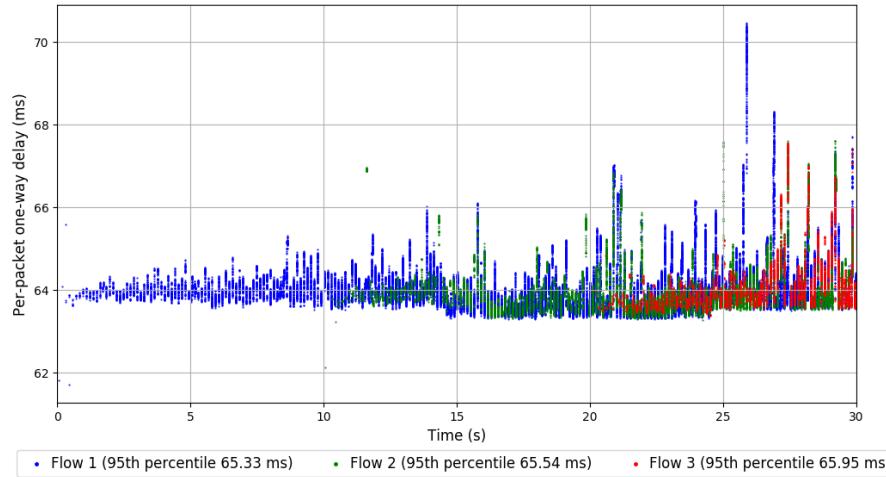
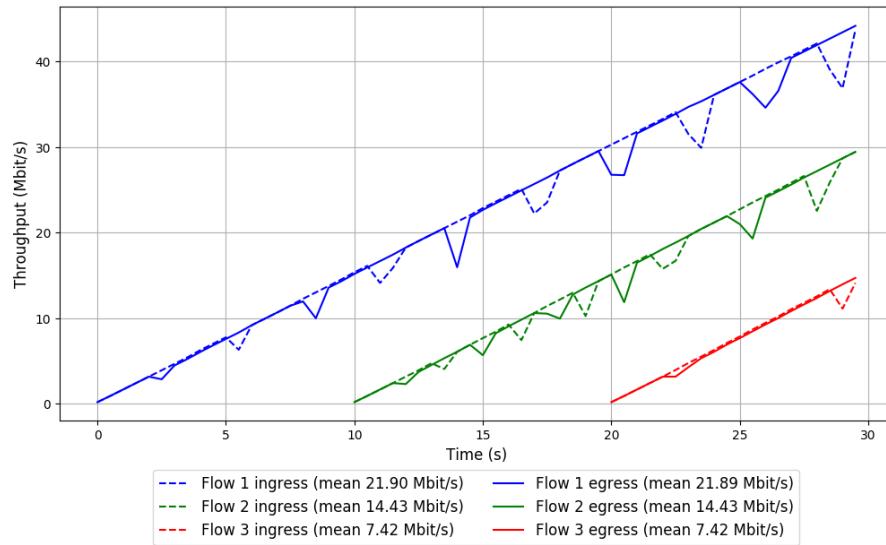


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-18 22:26:06
End at: 2018-04-18 22:26:36

# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.95 Mbit/s
95th percentile per-packet one-way delay: 65.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.89 Mbit/s
95th percentile per-packet one-way delay: 65.325 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.43 Mbit/s
95th percentile per-packet one-way delay: 65.543 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 65.953 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



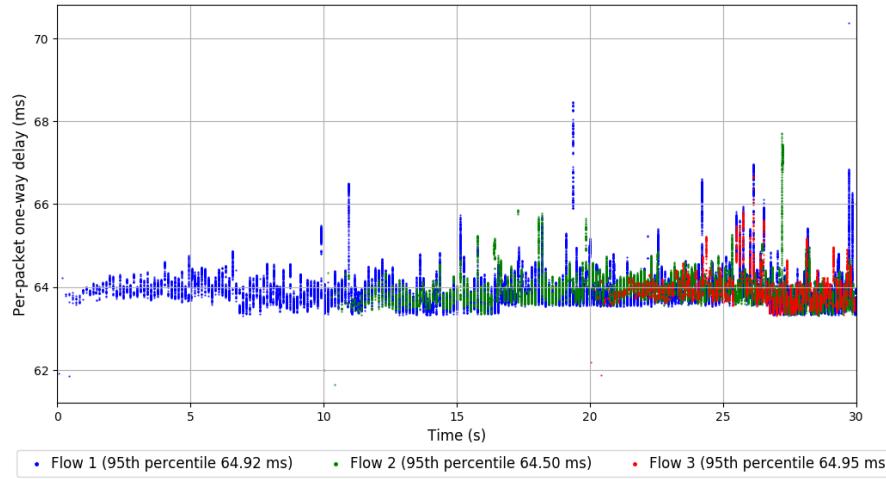
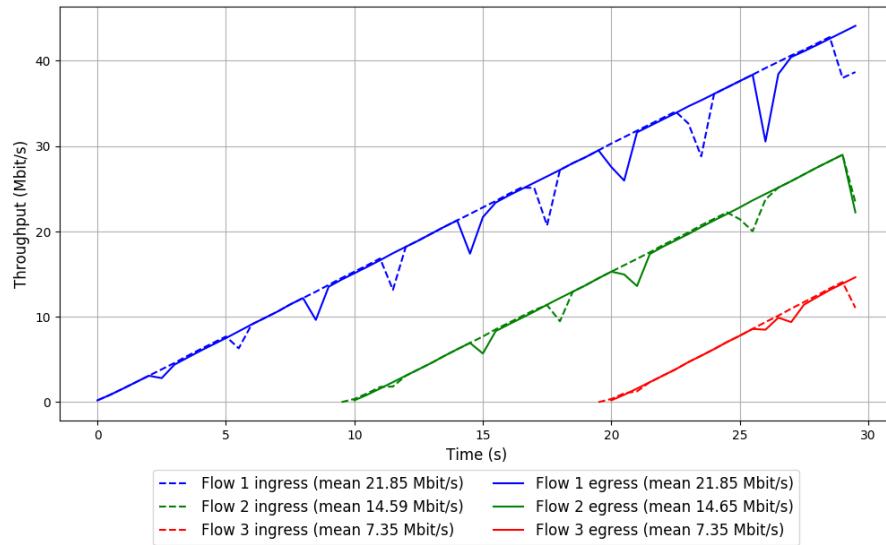
Run 2: Statistics of LEDBAT

Start at: 2018-04-18 22:41:44

End at: 2018-04-18 22:42:14

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.99 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 21.85 Mbit/s
95th percentile per-packet one-way delay: 64.915 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.65 Mbit/s
95th percentile per-packet one-way delay: 64.498 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 64.950 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

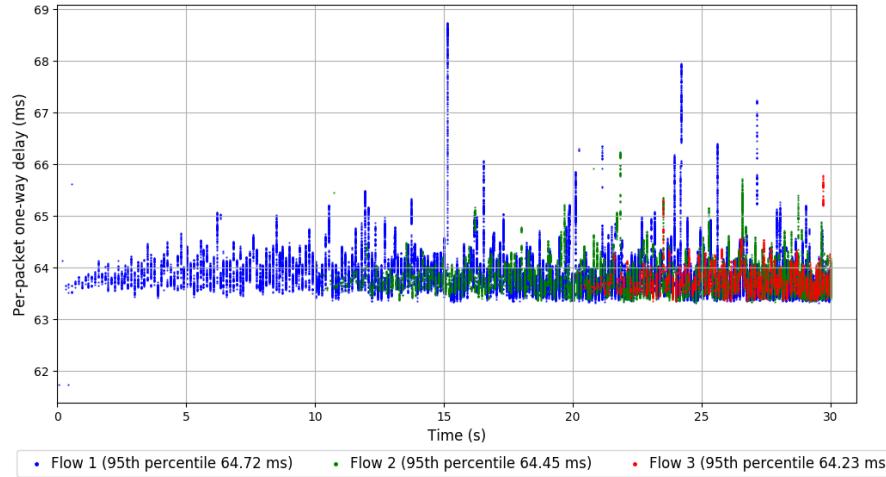
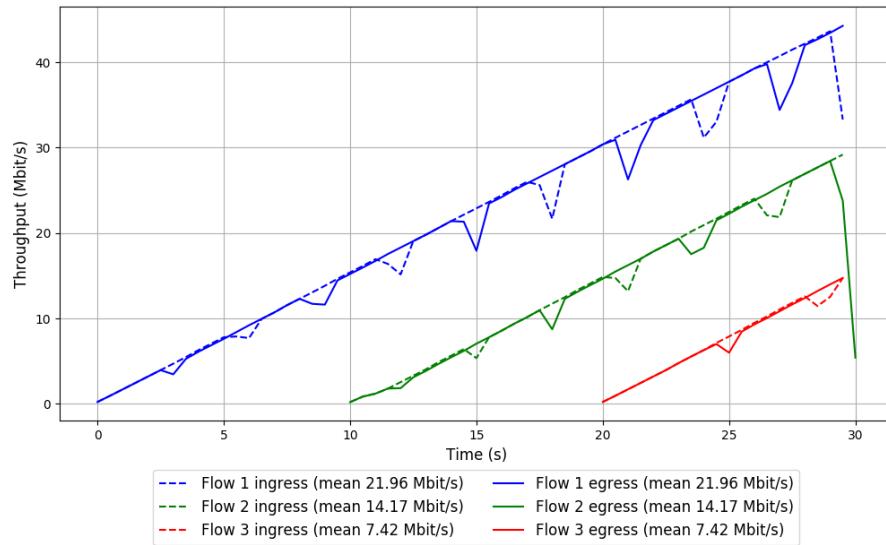


```
Run 3: Statistics of LEDBAT

Start at: 2018-04-18 22:57:32
End at: 2018-04-18 22:58:02

# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.78 Mbit/s
95th percentile per-packet one-way delay: 64.629 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.96 Mbit/s
95th percentile per-packet one-way delay: 64.725 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.17 Mbit/s
95th percentile per-packet one-way delay: 64.452 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 64.235 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link



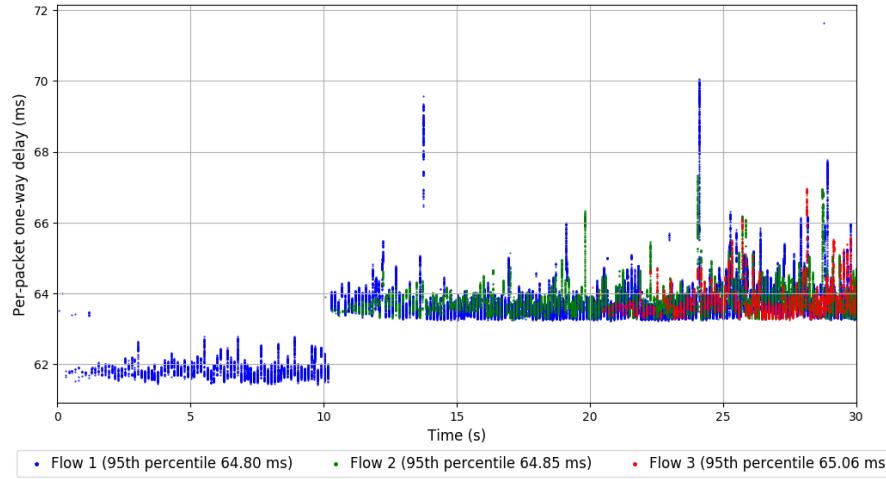
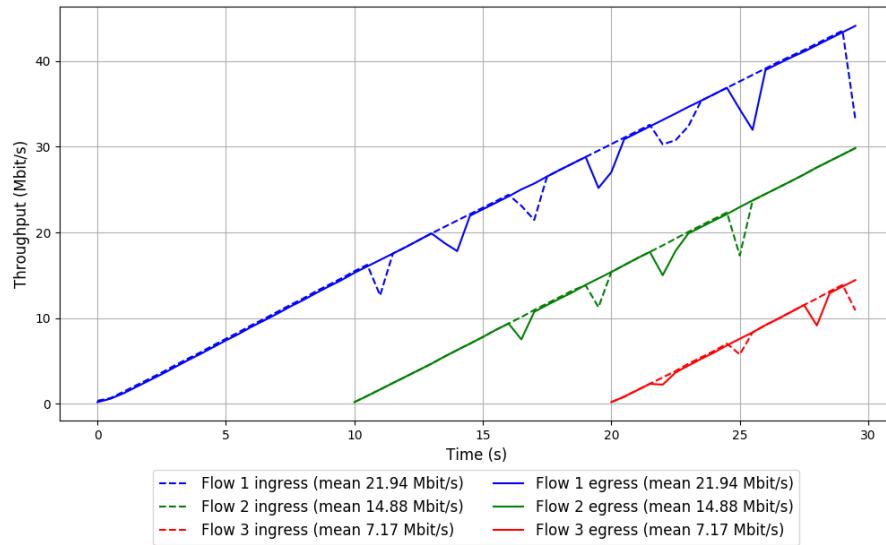
```
Run 4: Statistics of LEDBAT
```

```
Start at: 2018-04-18 23:13:10
```

```
End at: 2018-04-18 23:13:40
```

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.15 Mbit/s
95th percentile per-packet one-way delay: 64.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 64.802 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 64.850 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 65.058 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



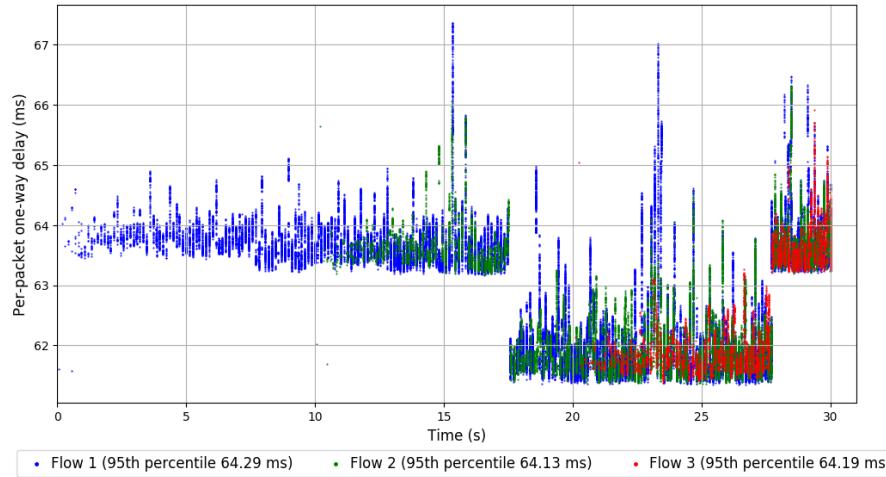
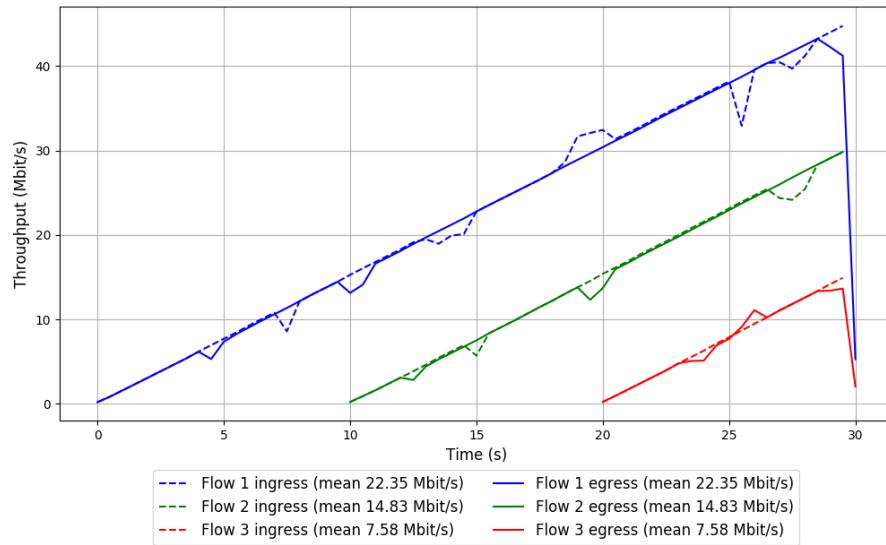
Run 5: Statistics of LEDBAT

Start at: 2018-04-18 23:28:43

End at: 2018-04-18 23:29:13

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.72 Mbit/s
95th percentile per-packet one-way delay: 64.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.35 Mbit/s
95th percentile per-packet one-way delay: 64.287 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.83 Mbit/s
95th percentile per-packet one-way delay: 64.130 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 64.194 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link



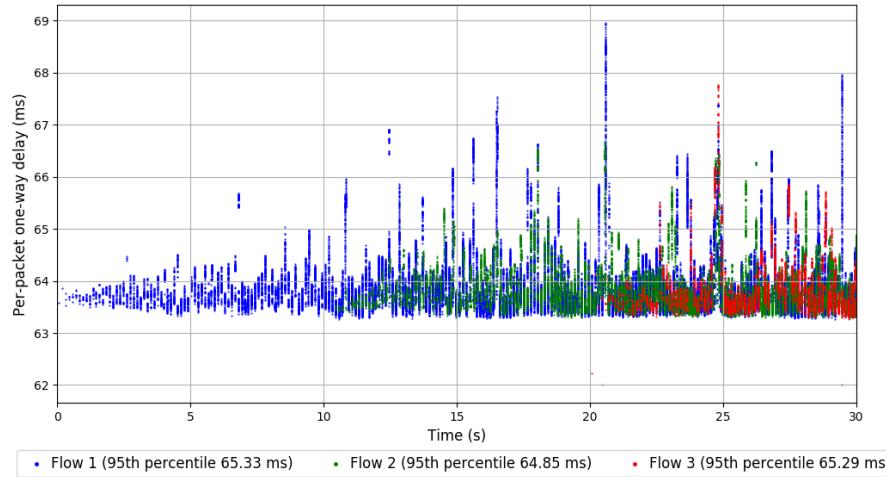
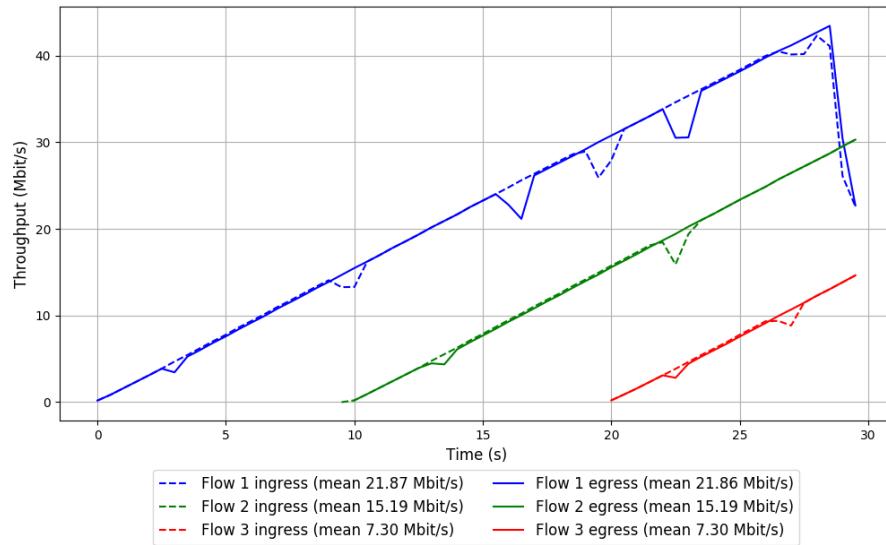
Run 6: Statistics of LEDBAT

Start at: 2018-04-18 23:44:23

End at: 2018-04-18 23:44:53

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.35 Mbit/s
95th percentile per-packet one-way delay: 65.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.86 Mbit/s
95th percentile per-packet one-way delay: 65.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.19 Mbit/s
95th percentile per-packet one-way delay: 64.854 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 65.293 ms
Loss rate: 0.00%
```

Run 6: Report of LEDBAT — Data Link



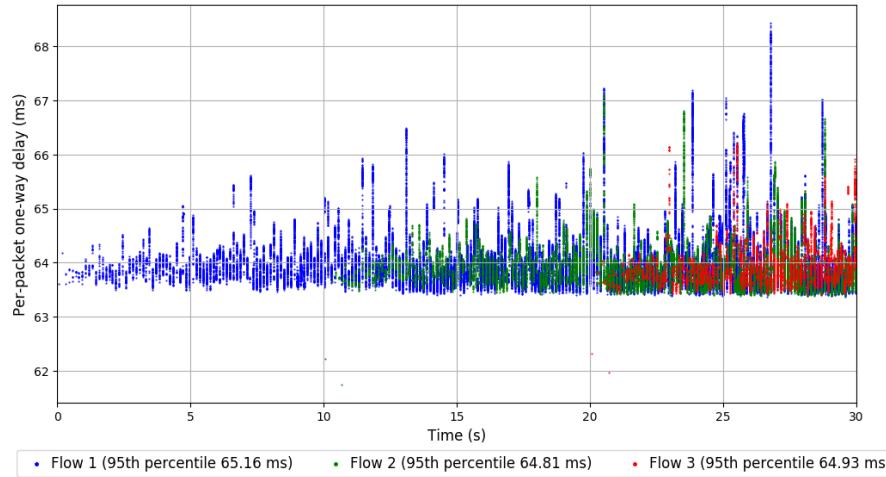
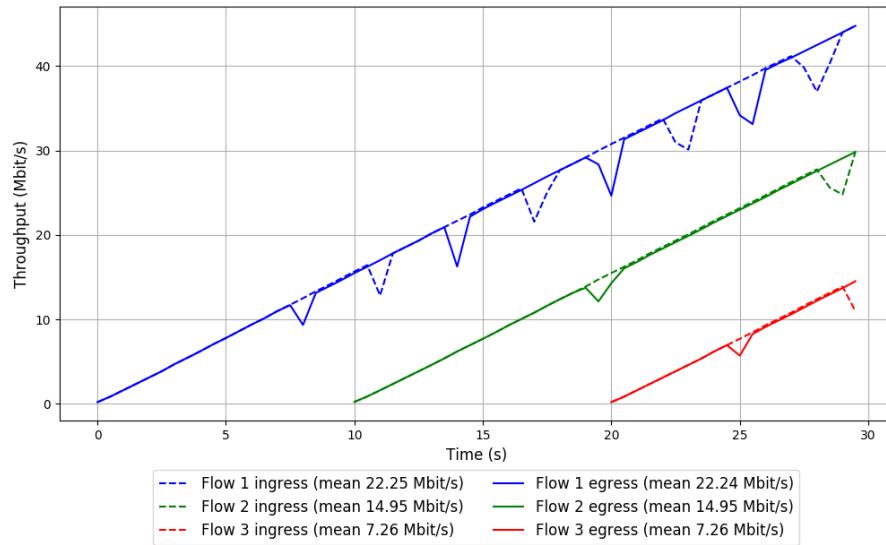
Run 7: Statistics of LEDBAT

Start at: 2018-04-19 00:00:08

End at: 2018-04-19 00:00:38

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.59 Mbit/s
95th percentile per-packet one-way delay: 65.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 65.162 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 64.807 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 64.928 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link



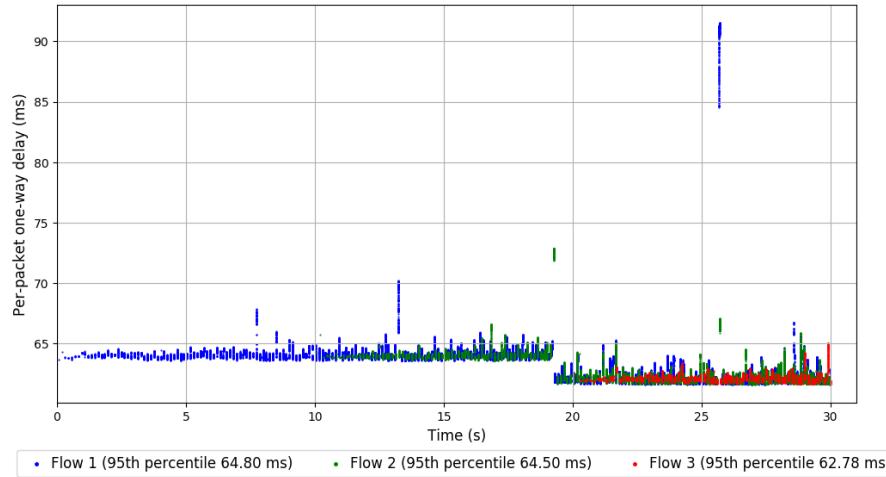
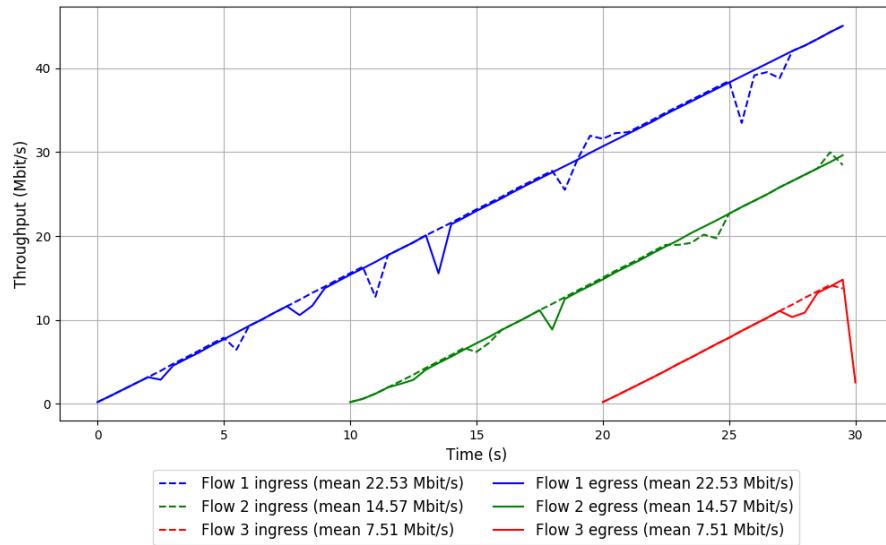
Run 8: Statistics of LEDBAT

Start at: 2018-04-19 00:15:51

End at: 2018-04-19 00:16:21

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 64.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 64.795 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.57 Mbit/s
95th percentile per-packet one-way delay: 64.505 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 62.778 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link



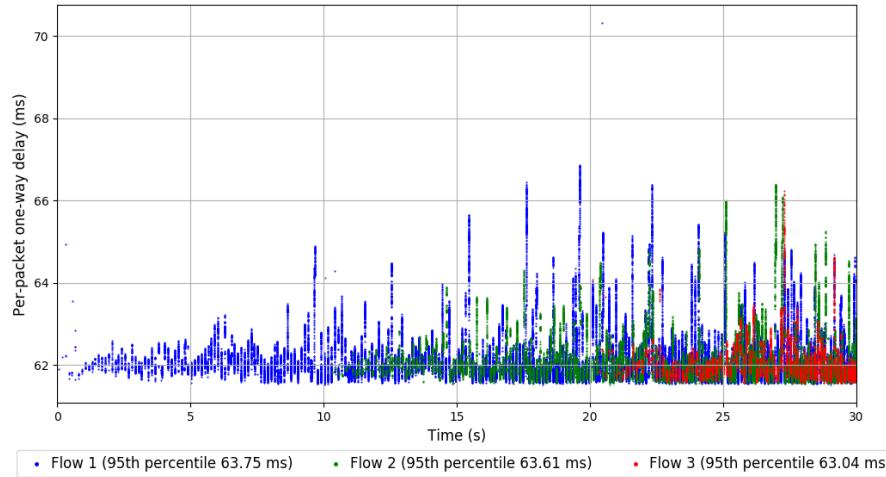
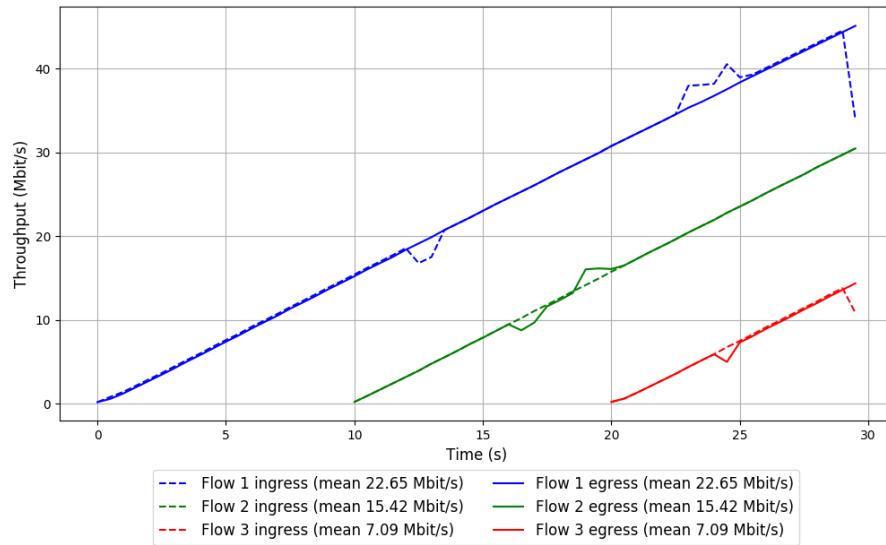
Run 9: Statistics of LEDBAT

Start at: 2018-04-19 00:31:18

End at: 2018-04-19 00:31:48

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 63.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 63.750 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.42 Mbit/s
95th percentile per-packet one-way delay: 63.606 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 63.040 ms
Loss rate: 0.00%
```

Run 9: Report of LEDBAT — Data Link



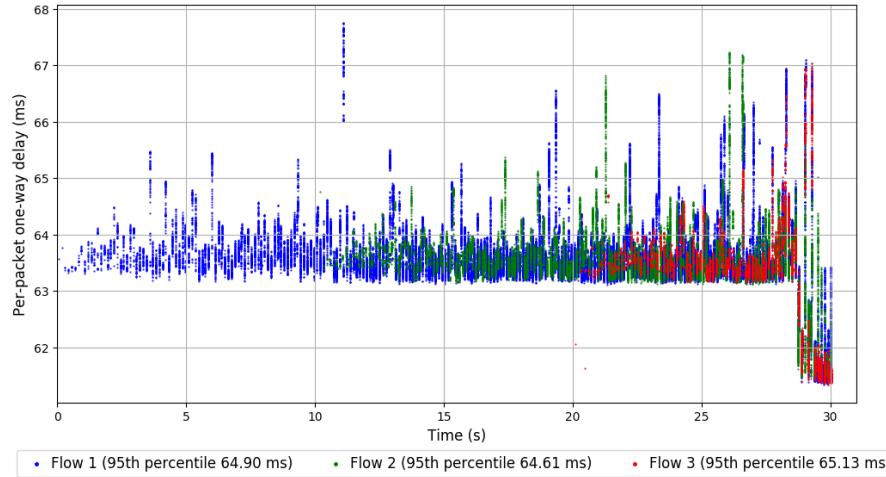
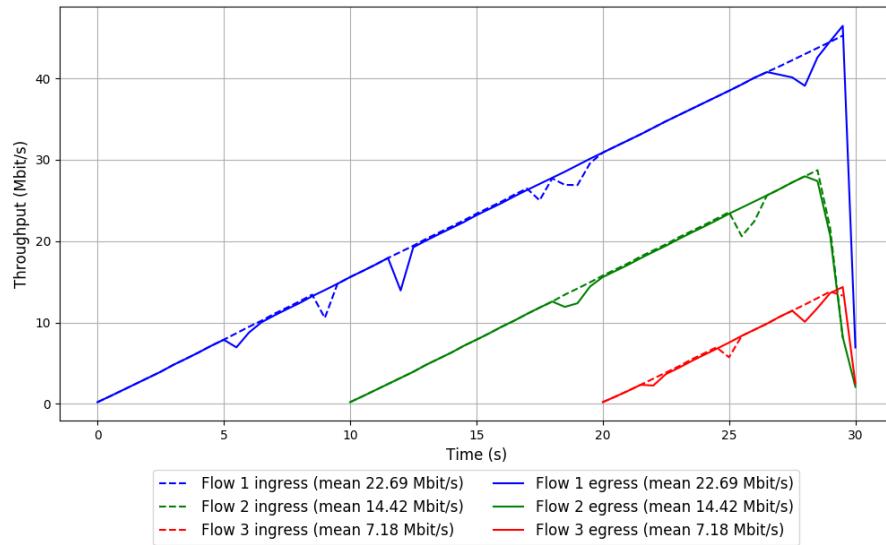
Run 10: Statistics of LEDBAT

Start at: 2018-04-19 00:46:42

End at: 2018-04-19 00:47:12

```
# Below is generated by plot.py at 2018-04-19 03:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.67 Mbit/s
95th percentile per-packet one-way delay: 64.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 64.897 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.42 Mbit/s
95th percentile per-packet one-way delay: 64.610 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 65.129 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

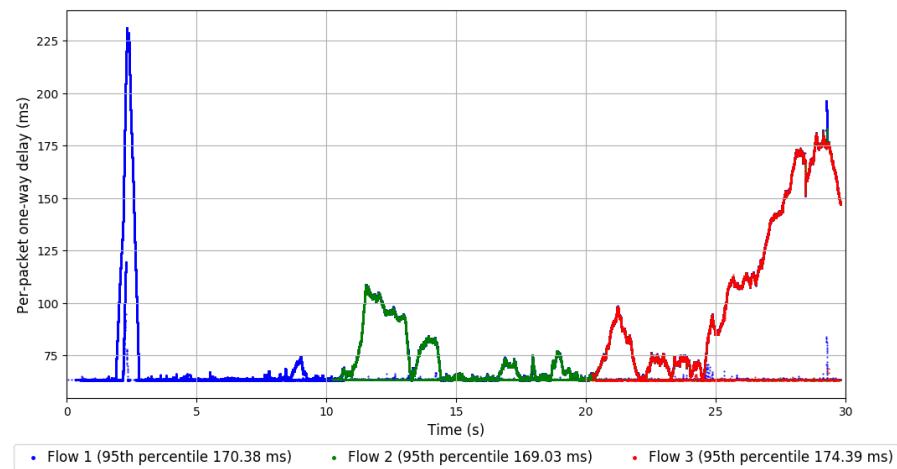
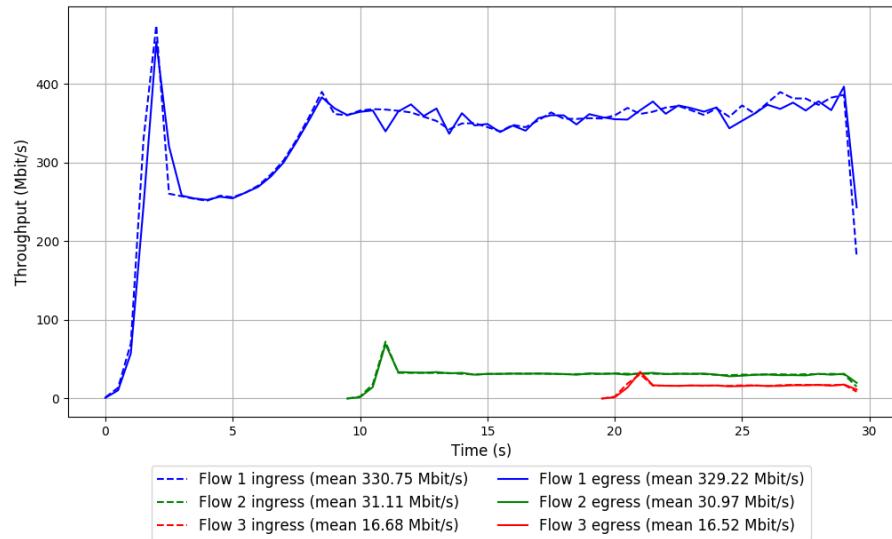


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-18 22:18:28
End at: 2018-04-18 22:18:58

# Below is generated by plot.py at 2018-04-19 03:14:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.36 Mbit/s
95th percentile per-packet one-way delay: 170.535 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 329.22 Mbit/s
95th percentile per-packet one-way delay: 170.381 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 169.028 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 16.52 Mbit/s
95th percentile per-packet one-way delay: 174.390 ms
Loss rate: 0.93%
```

Run 1: Report of PCC-Allegro — Data Link



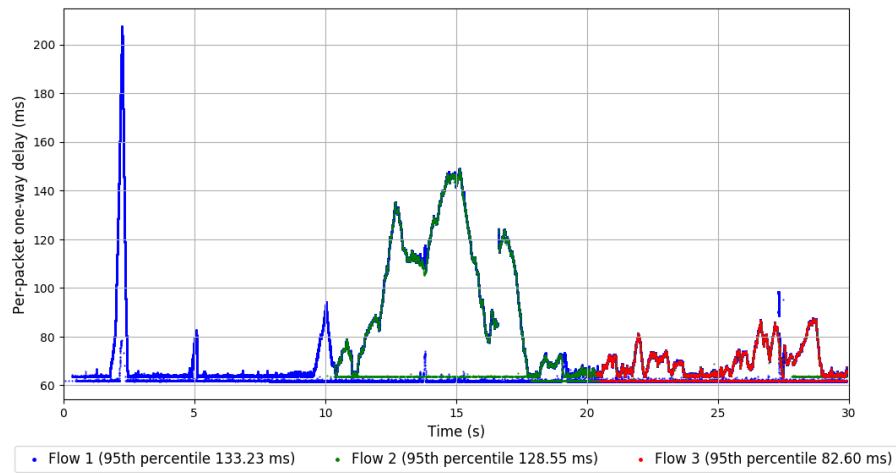
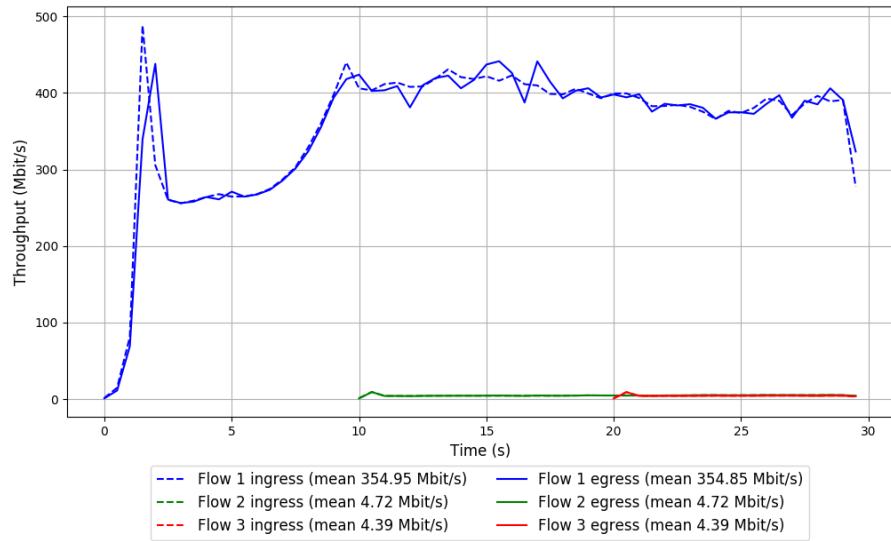
Run 2: Statistics of PCC-Allegro

Start at: 2018-04-18 22:34:00

End at: 2018-04-18 22:34:30

```
# Below is generated by plot.py at 2018-04-19 03:15:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.43 Mbit/s
95th percentile per-packet one-way delay: 132.971 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 354.85 Mbit/s
95th percentile per-packet one-way delay: 133.233 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 4.72 Mbit/s
95th percentile per-packet one-way delay: 128.554 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 82.599 ms
Loss rate: 0.06%
```

Run 2: Report of PCC-Allegro — Data Link



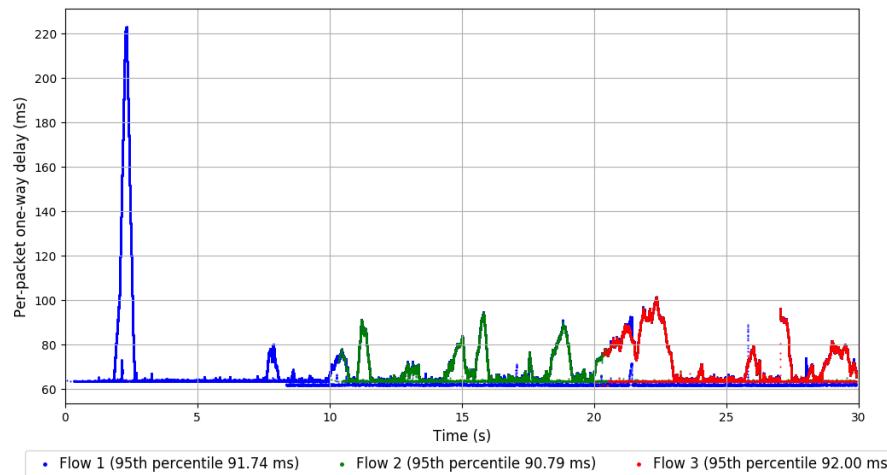
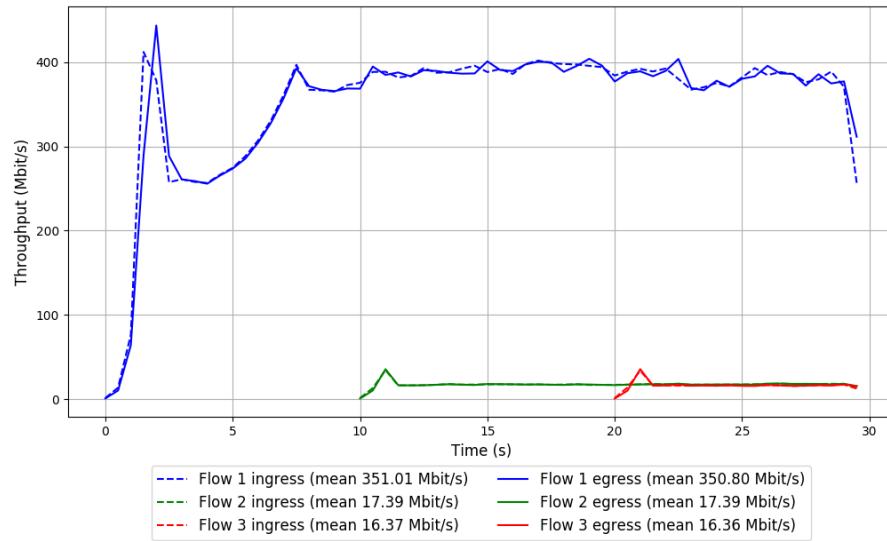
Run 3: Statistics of PCC-Allegro

Start at: 2018-04-18 22:49:50

End at: 2018-04-18 22:50:20

```
# Below is generated by plot.py at 2018-04-19 03:15:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 367.75 Mbit/s
95th percentile per-packet one-way delay: 91.709 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 350.80 Mbit/s
95th percentile per-packet one-way delay: 91.738 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 17.39 Mbit/s
95th percentile per-packet one-way delay: 90.786 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.36 Mbit/s
95th percentile per-packet one-way delay: 91.996 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Allegro — Data Link



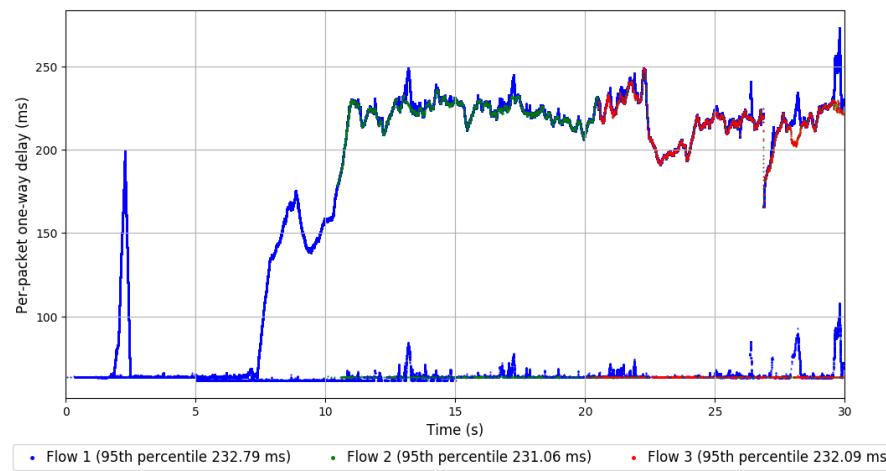
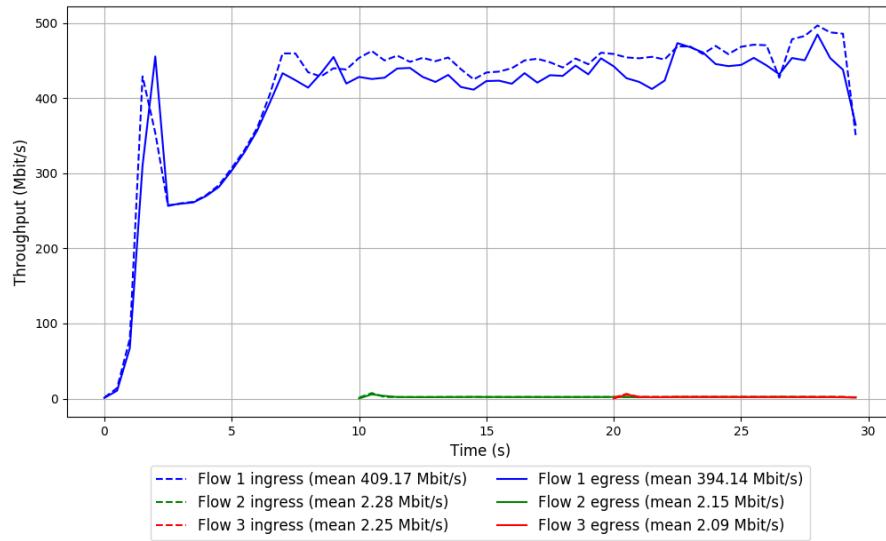
Run 4: Statistics of PCC-Allegro

Start at: 2018-04-18 23:05:26

End at: 2018-04-18 23:05:56

```
# Below is generated by plot.py at 2018-04-19 03:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.26 Mbit/s
95th percentile per-packet one-way delay: 232.776 ms
Loss rate: 3.69%
-- Flow 1:
Average throughput: 394.14 Mbit/s
95th percentile per-packet one-way delay: 232.795 ms
Loss rate: 3.68%
-- Flow 2:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 231.056 ms
Loss rate: 5.86%
-- Flow 3:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 232.093 ms
Loss rate: 7.26%
```

Run 4: Report of PCC-Allegro — Data Link



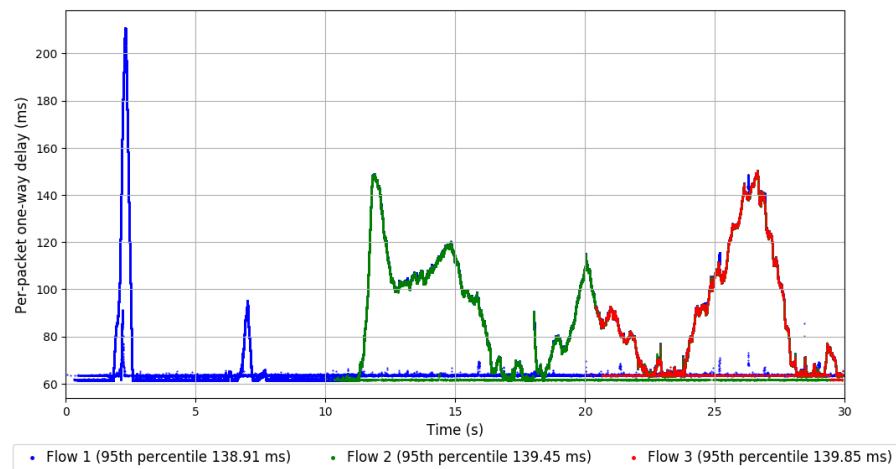
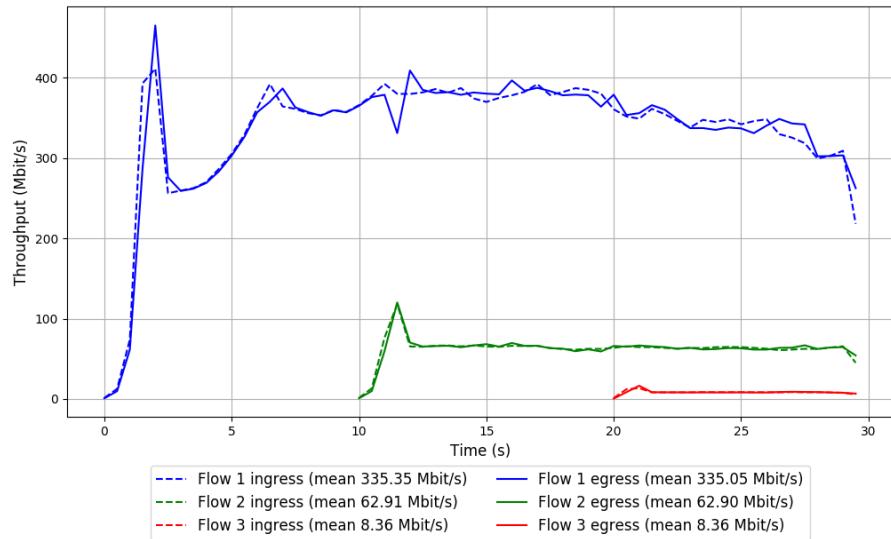
Run 5: Statistics of PCC-Allegro

Start at: 2018-04-18 23:20:59

End at: 2018-04-18 23:21:29

```
# Below is generated by plot.py at 2018-04-19 03:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 379.60 Mbit/s
95th percentile per-packet one-way delay: 139.018 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 335.05 Mbit/s
95th percentile per-packet one-way delay: 138.910 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 62.90 Mbit/s
95th percentile per-packet one-way delay: 139.453 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 8.36 Mbit/s
95th percentile per-packet one-way delay: 139.855 ms
Loss rate: 0.03%
```

Run 5: Report of PCC-Allegro — Data Link



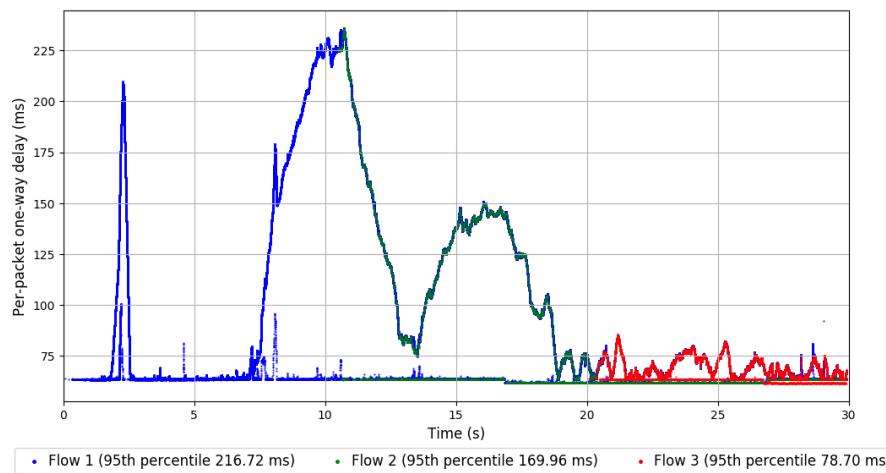
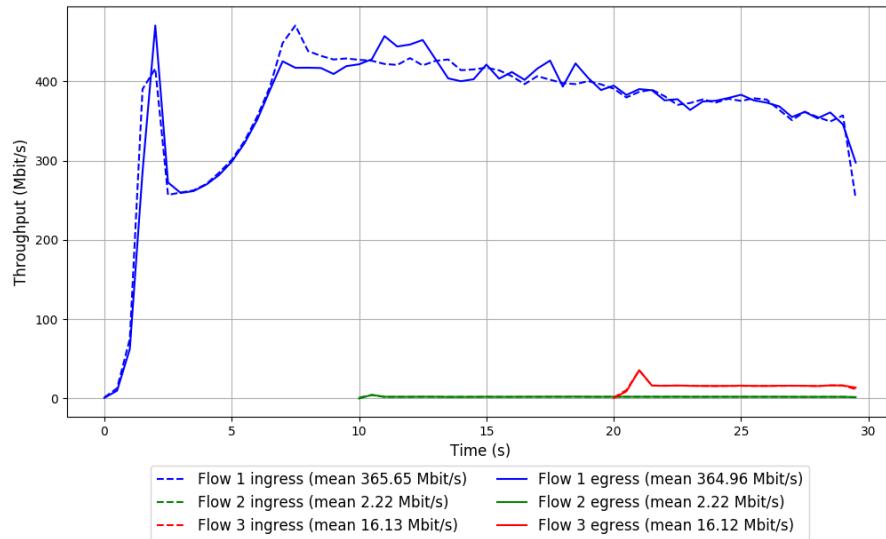
Run 6: Statistics of PCC-Allegro

Start at: 2018-04-18 23:36:44

End at: 2018-04-18 23:37:14

```
# Below is generated by plot.py at 2018-04-19 03:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 371.74 Mbit/s
95th percentile per-packet one-way delay: 215.894 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 364.96 Mbit/s
95th percentile per-packet one-way delay: 216.721 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 169.962 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 78.699 ms
Loss rate: 0.04%
```

Run 6: Report of PCC-Allegro — Data Link



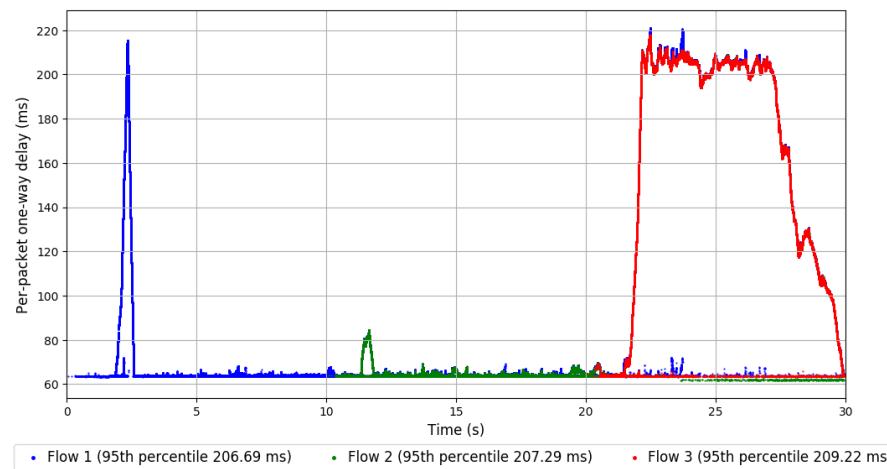
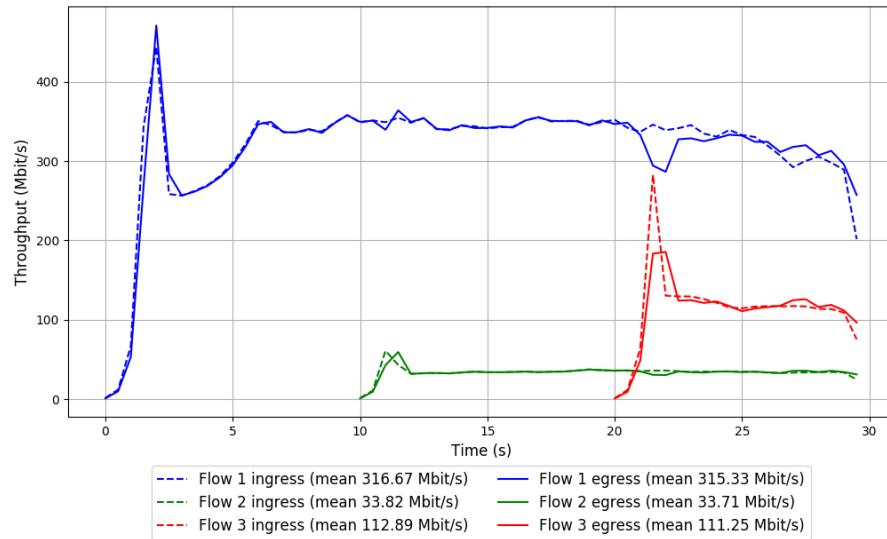
Run 7: Statistics of PCC-Allegro

Start at: 2018-04-18 23:52:17

End at: 2018-04-18 23:52:47

```
# Below is generated by plot.py at 2018-04-19 03:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 374.40 Mbit/s
95th percentile per-packet one-way delay: 207.212 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 315.33 Mbit/s
95th percentile per-packet one-way delay: 206.694 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 33.71 Mbit/s
95th percentile per-packet one-way delay: 207.295 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 111.25 Mbit/s
95th percentile per-packet one-way delay: 209.223 ms
Loss rate: 1.46%
```

Run 7: Report of PCC-Allegro — Data Link



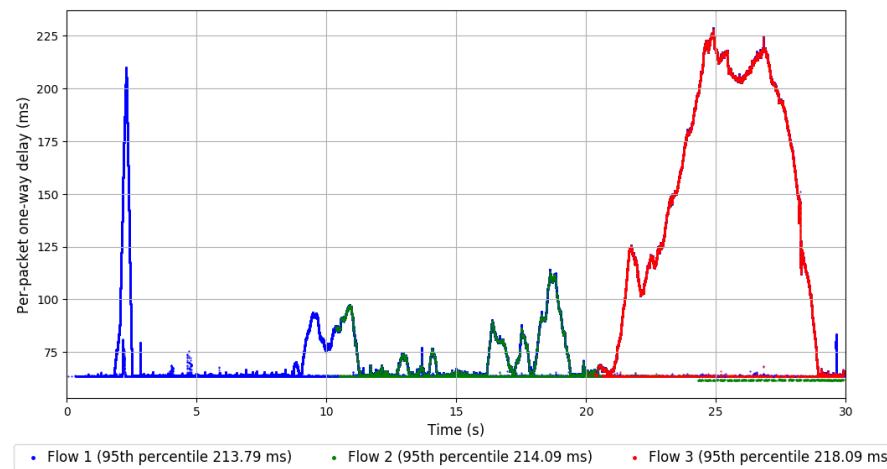
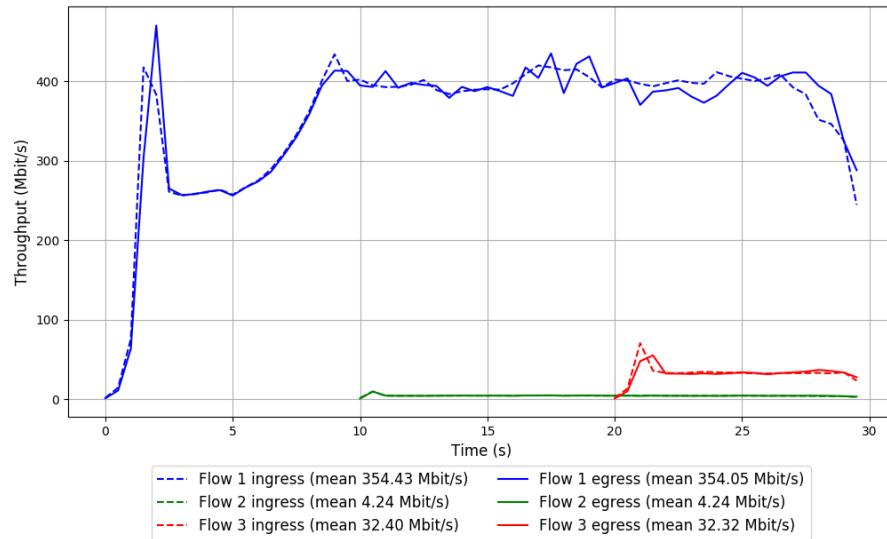
Run 8: Statistics of PCC-Allegro

Start at: 2018-04-19 00:08:04

End at: 2018-04-19 00:08:34

```
# Below is generated by plot.py at 2018-04-19 03:18:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 367.51 Mbit/s
95th percentile per-packet one-way delay: 214.080 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 354.05 Mbit/s
95th percentile per-packet one-way delay: 213.793 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 214.086 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 218.093 ms
Loss rate: 0.22%
```

Run 8: Report of PCC-Allegro — Data Link



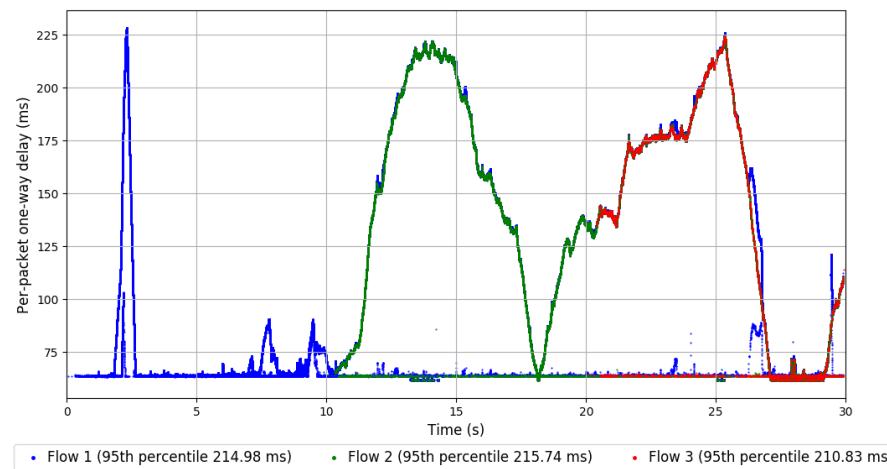
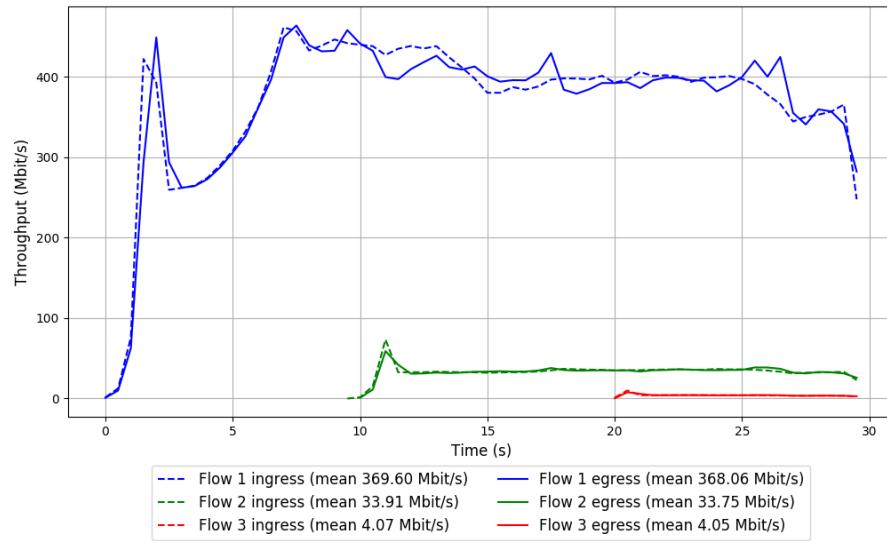
Run 9: Statistics of PCC-Allegro

Start at: 2018-04-19 00:23:38

End at: 2018-04-19 00:24:08

```
# Below is generated by plot.py at 2018-04-19 03:22:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 391.81 Mbit/s
95th percentile per-packet one-way delay: 215.033 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 368.06 Mbit/s
95th percentile per-packet one-way delay: 214.984 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 215.738 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 210.829 ms
Loss rate: 0.51%
```

Run 9: Report of PCC-Allegro — Data Link

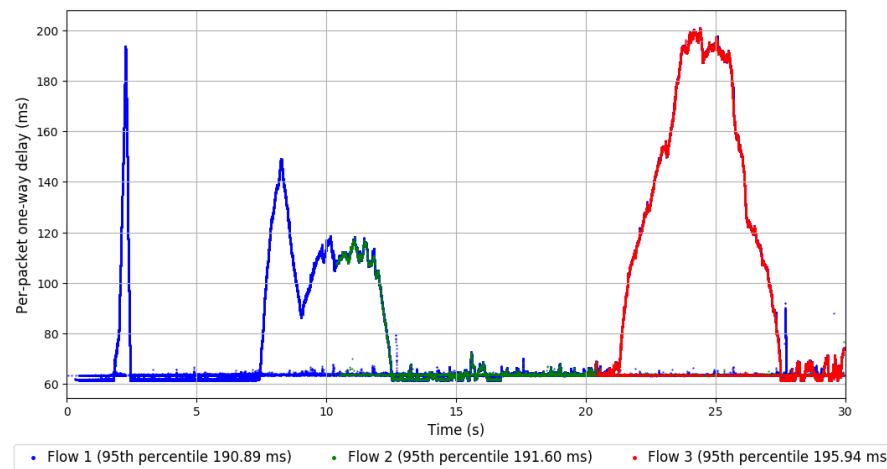
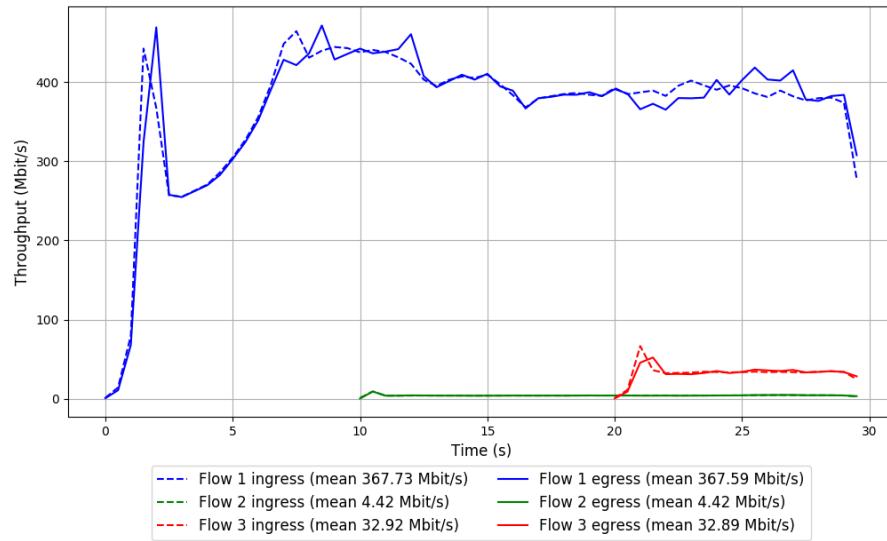


```
Run 10: Statistics of PCC-Allegro

Start at: 2018-04-19 00:39:04
End at: 2018-04-19 00:39:34

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.32 Mbit/s
95th percentile per-packet one-way delay: 191.227 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 367.59 Mbit/s
95th percentile per-packet one-way delay: 190.890 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 191.601 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 32.89 Mbit/s
95th percentile per-packet one-way delay: 195.938 ms
Loss rate: 0.11%
```

Run 10: Report of PCC-Allegro — Data Link

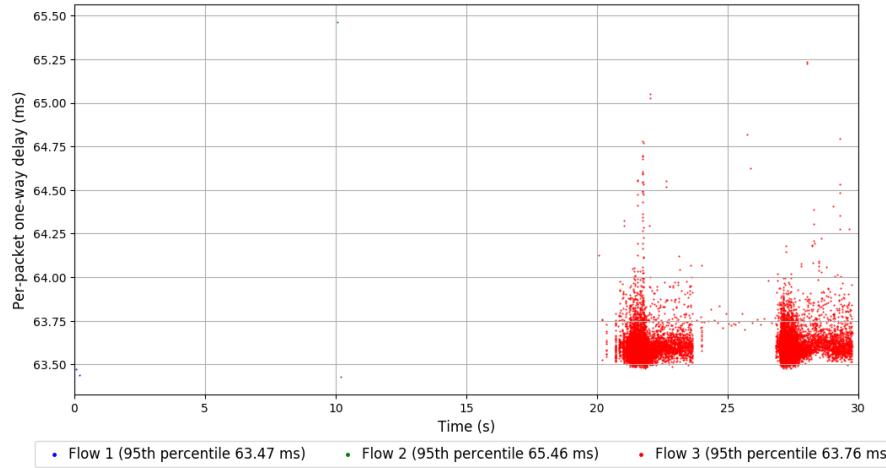
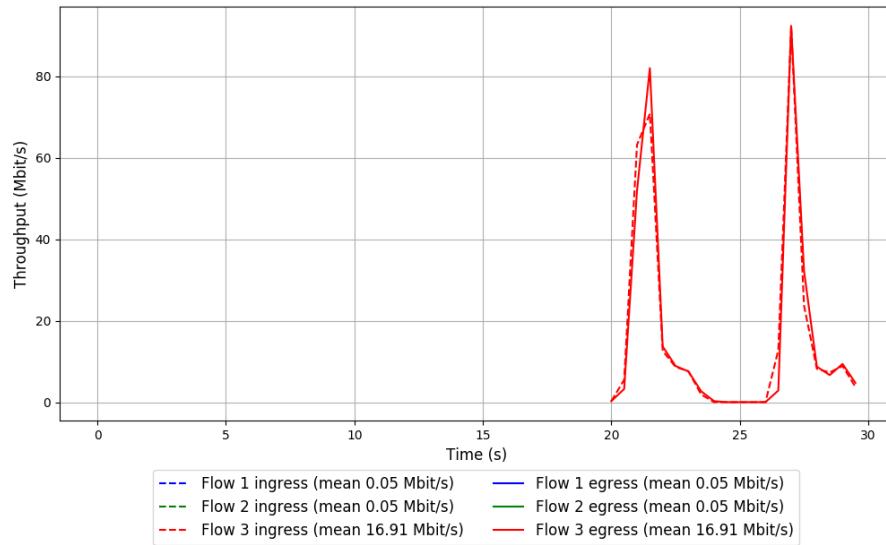


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-18 22:25:25
End at: 2018-04-18 22:25:55

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.51 Mbit/s
95th percentile per-packet one-way delay: 63.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.474 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.462 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.91 Mbit/s
95th percentile per-packet one-way delay: 63.760 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



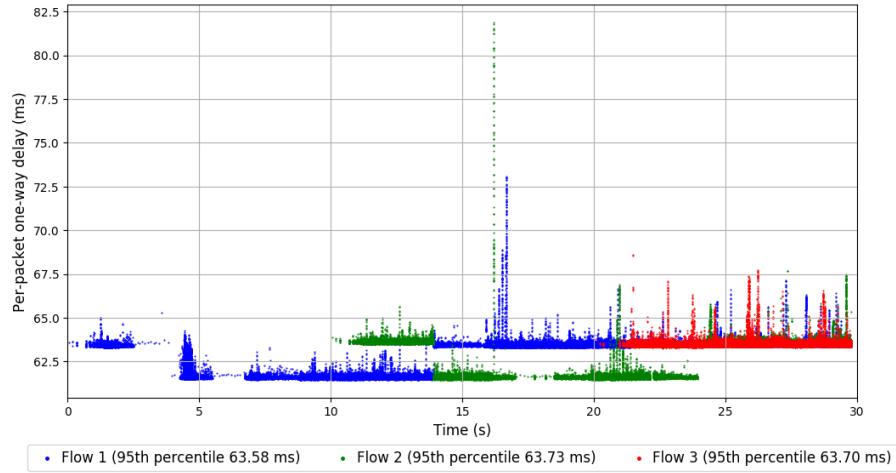
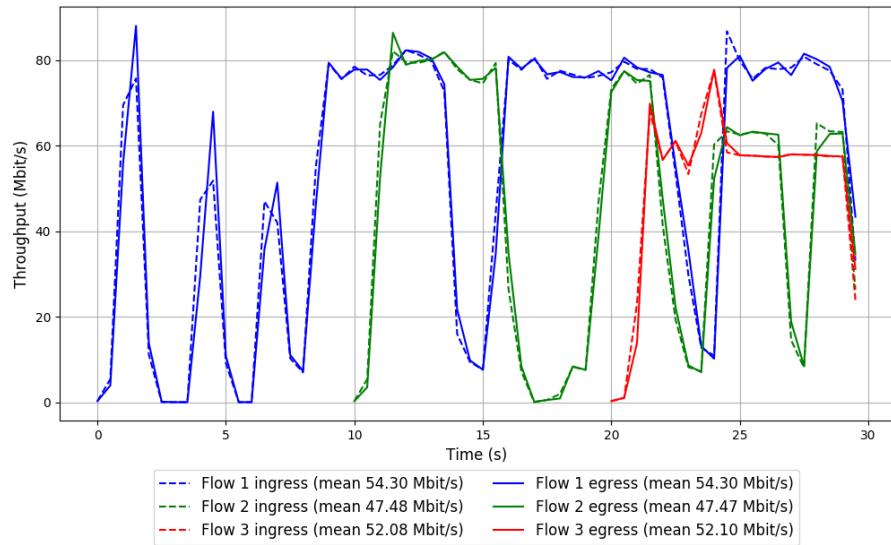
Run 2: Statistics of QUIC Cubic

Start at: 2018-04-18 22:40:57

End at: 2018-04-18 22:41:27

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.77 Mbit/s
95th percentile per-packet one-way delay: 63.680 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 63.579 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.47 Mbit/s
95th percentile per-packet one-way delay: 63.726 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 52.10 Mbit/s
95th percentile per-packet one-way delay: 63.702 ms
Loss rate: 0.01%
```

Run 2: Report of QUIC Cubic — Data Link



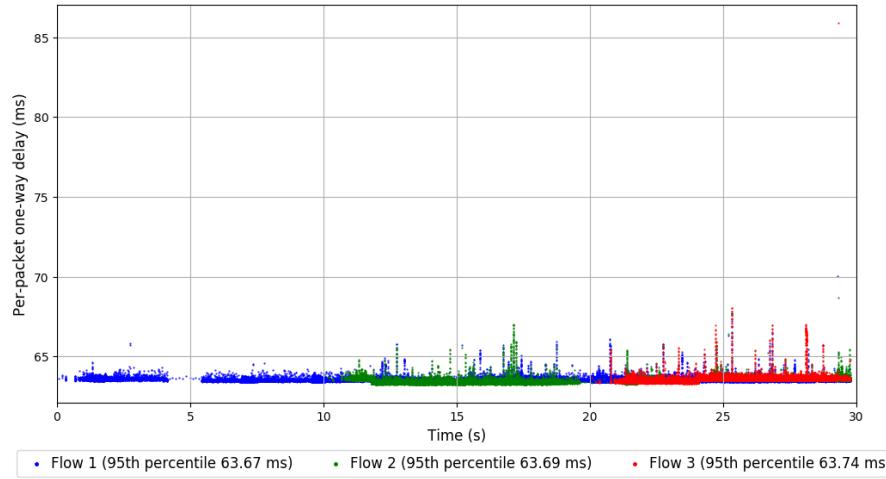
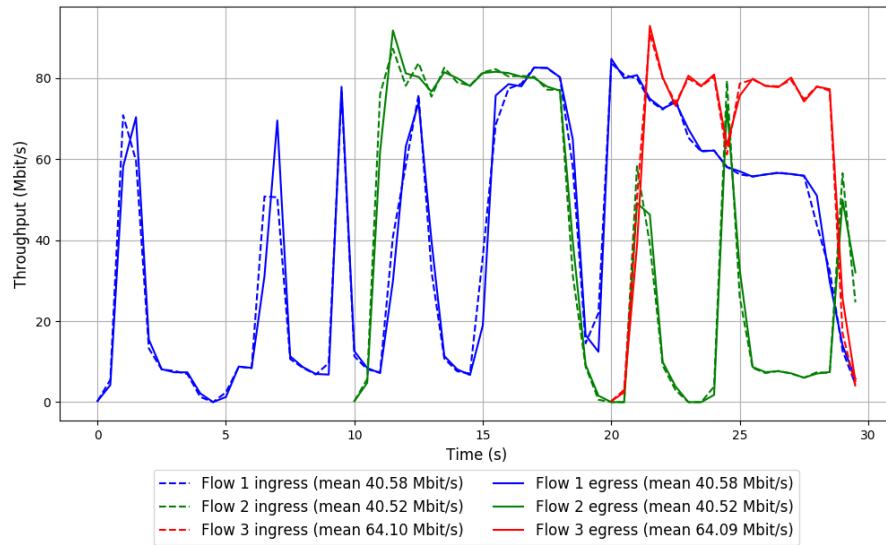
Run 3: Statistics of QUIC Cubic

Start at: 2018-04-18 22:56:46

End at: 2018-04-18 22:57:16

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.36 Mbit/s
95th percentile per-packet one-way delay: 63.702 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.58 Mbit/s
95th percentile per-packet one-way delay: 63.672 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.52 Mbit/s
95th percentile per-packet one-way delay: 63.689 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 64.09 Mbit/s
95th percentile per-packet one-way delay: 63.741 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link



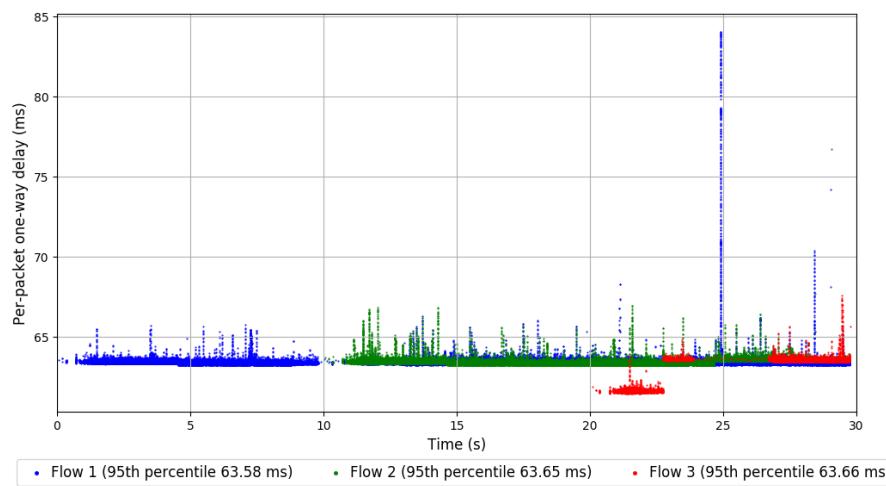
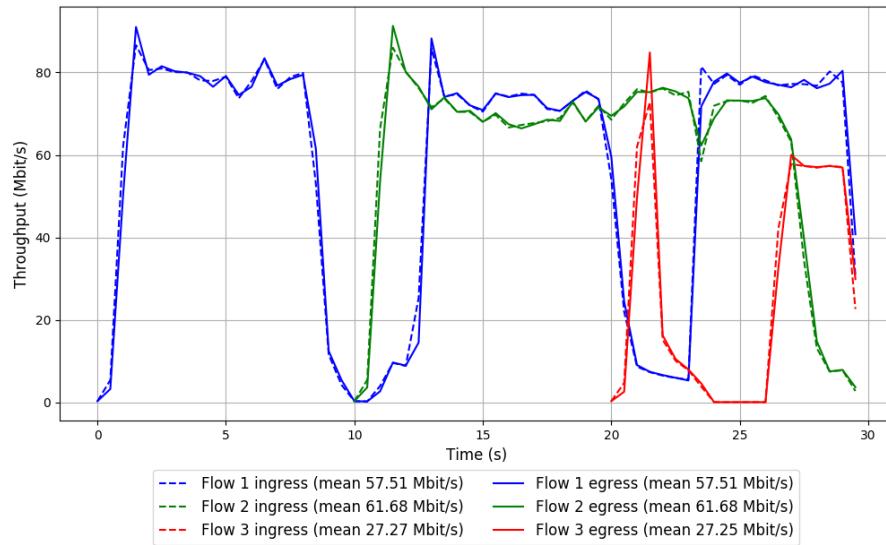
Run 4: Statistics of QUIC Cubic

Start at: 2018-04-18 23:12:24

End at: 2018-04-18 23:12:54

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.27 Mbit/s
95th percentile per-packet one-way delay: 63.624 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 63.578 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 61.68 Mbit/s
95th percentile per-packet one-way delay: 63.648 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.25 Mbit/s
95th percentile per-packet one-way delay: 63.661 ms
Loss rate: 0.03%
```

Run 4: Report of QUIC Cubic — Data Link



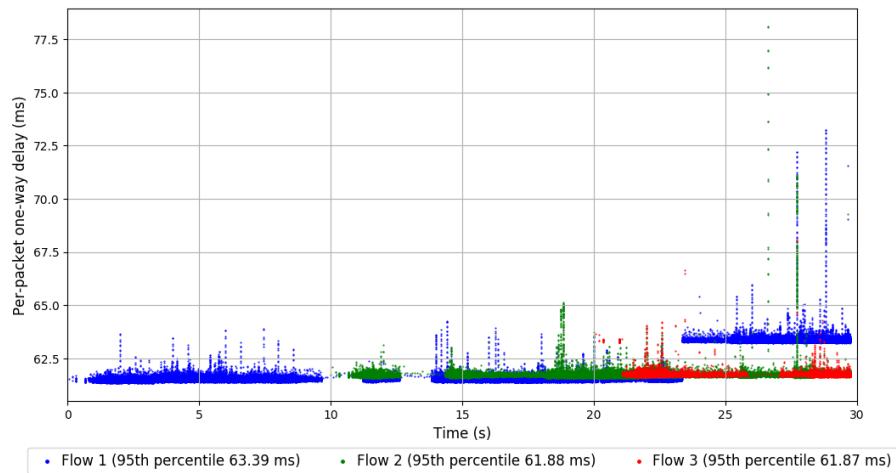
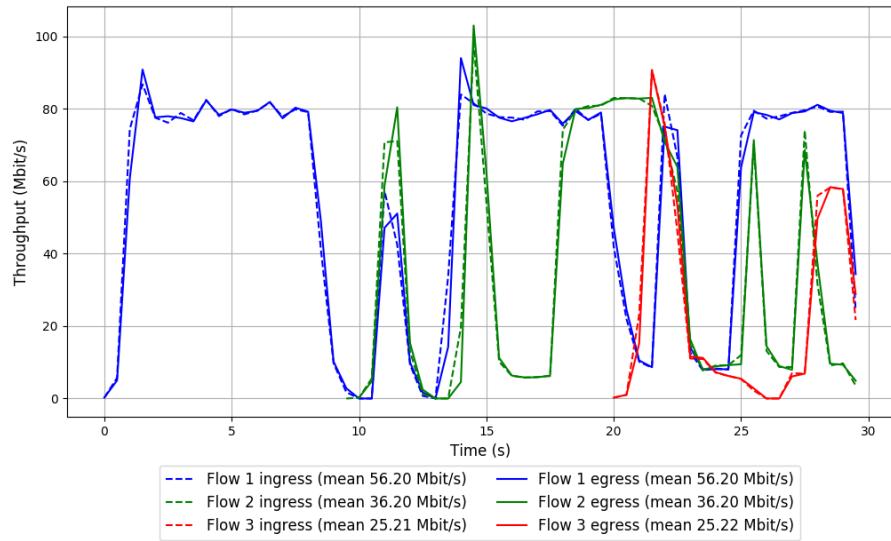
Run 5: Statistics of QUIC Cubic

Start at: 2018-04-18 23:27:57

End at: 2018-04-18 23:28:27

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.42 Mbit/s
95th percentile per-packet one-way delay: 63.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.20 Mbit/s
95th percentile per-packet one-way delay: 63.390 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.20 Mbit/s
95th percentile per-packet one-way delay: 61.877 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.22 Mbit/s
95th percentile per-packet one-way delay: 61.871 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link



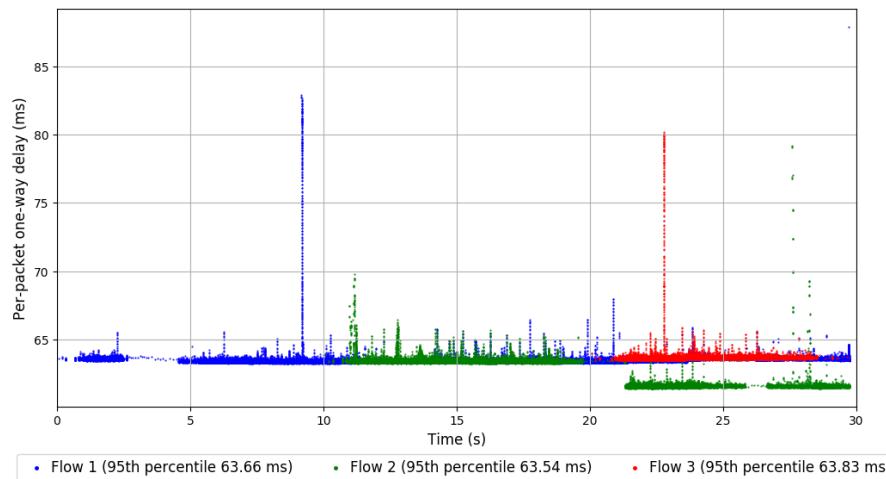
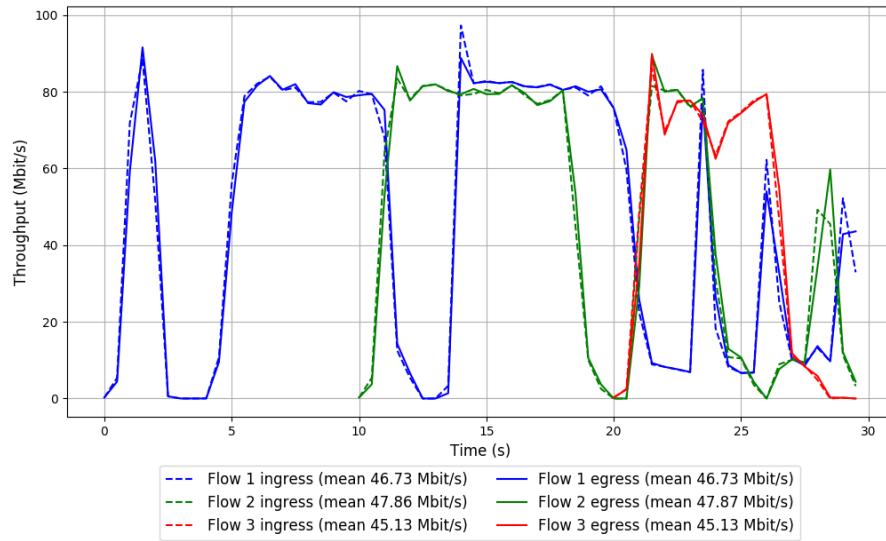
Run 6: Statistics of QUIC Cubic

Start at: 2018-04-18 23:43:37

End at: 2018-04-18 23:44:07

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.73 Mbit/s
95th percentile per-packet one-way delay: 63.660 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 63.540 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.13 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 0.00%
```

Run 6: Report of QUIC Cubic — Data Link



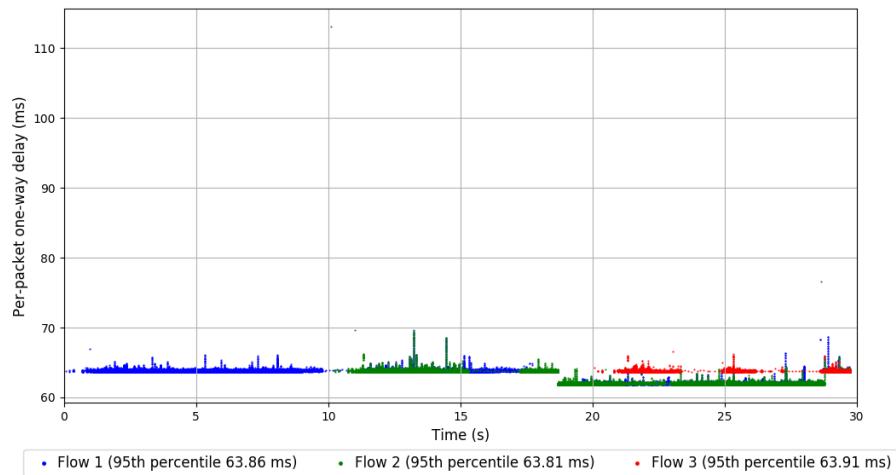
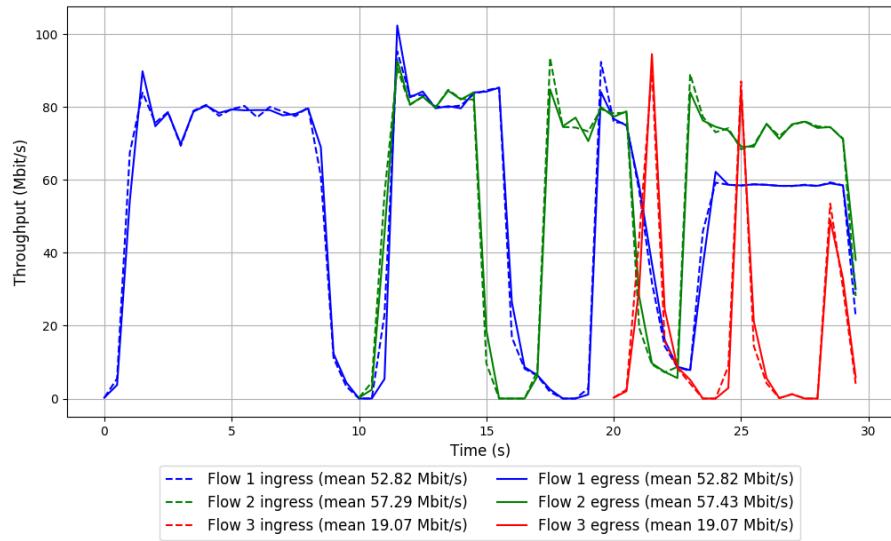
Run 7: Statistics of QUIC Cubic

Start at: 2018-04-18 23:59:22

End at: 2018-04-18 23:59:52

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.82 Mbit/s
95th percentile per-packet one-way delay: 63.858 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.43 Mbit/s
95th percentile per-packet one-way delay: 63.811 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.07 Mbit/s
95th percentile per-packet one-way delay: 63.913 ms
Loss rate: 0.00%
```

Run 7: Report of QUIC Cubic — Data Link



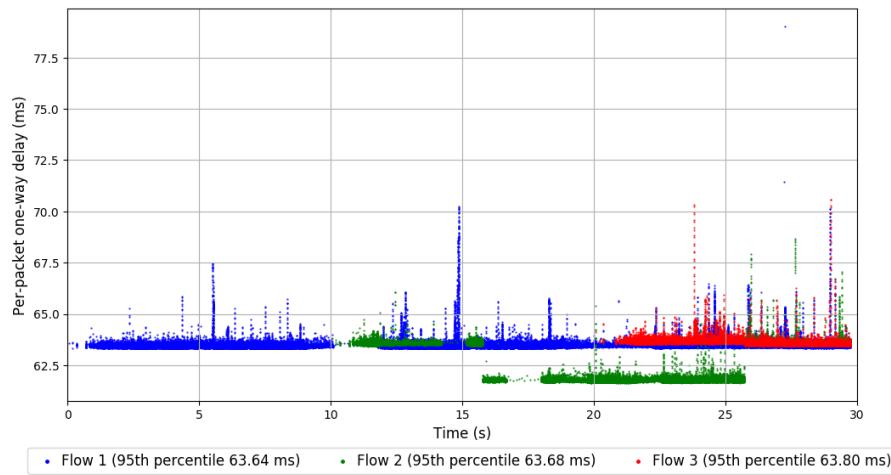
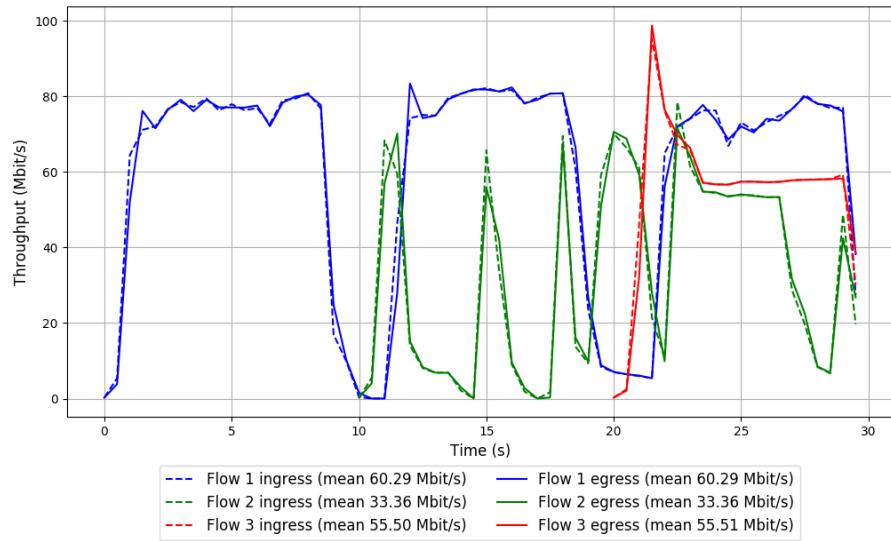
Run 8: Statistics of QUIC Cubic

Start at: 2018-04-19 00:15:05

End at: 2018-04-19 00:15:35

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.50 Mbit/s
95th percentile per-packet one-way delay: 63.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.29 Mbit/s
95th percentile per-packet one-way delay: 63.638 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.36 Mbit/s
95th percentile per-packet one-way delay: 63.676 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.51 Mbit/s
95th percentile per-packet one-way delay: 63.796 ms
Loss rate: 0.00%
```

Run 8: Report of QUIC Cubic — Data Link



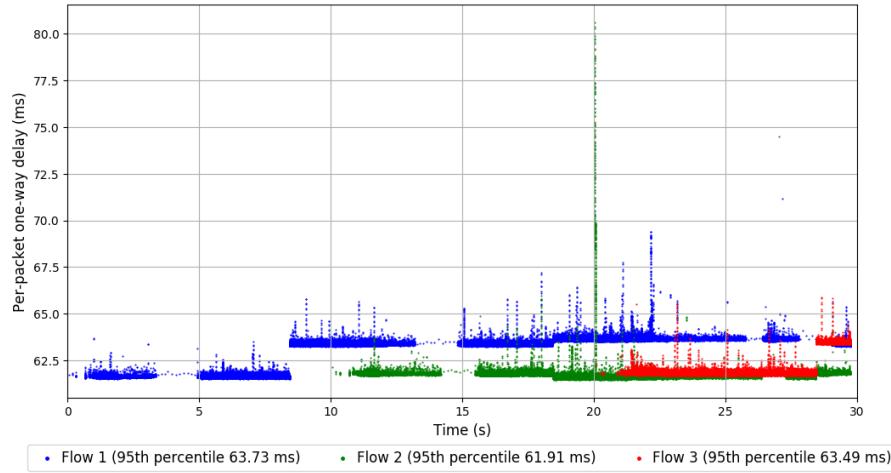
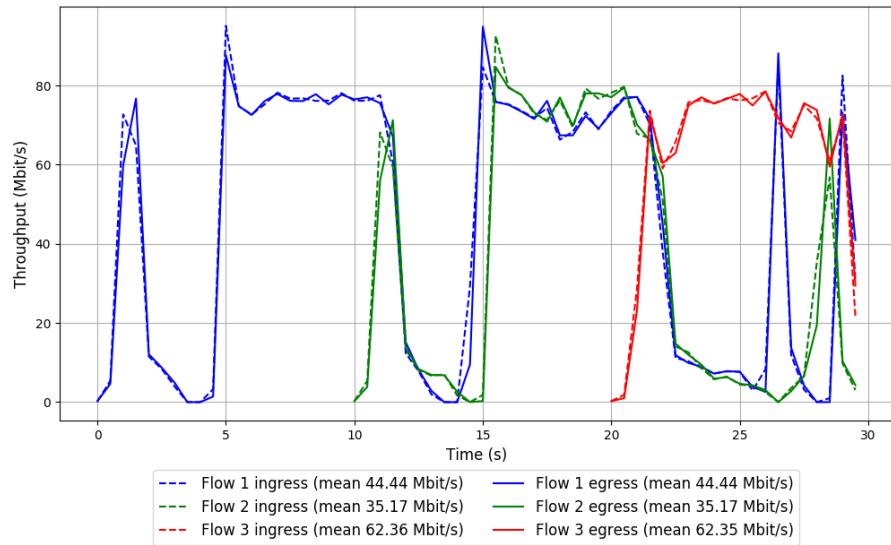
Run 9: Statistics of QUIC Cubic

Start at: 2018-04-19 00:30:32

End at: 2018-04-19 00:31:02

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.04 Mbit/s
95th percentile per-packet one-way delay: 63.677 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.44 Mbit/s
95th percentile per-packet one-way delay: 63.725 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.17 Mbit/s
95th percentile per-packet one-way delay: 61.912 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.35 Mbit/s
95th percentile per-packet one-way delay: 63.490 ms
Loss rate: 0.00%
```

Run 9: Report of QUIC Cubic — Data Link



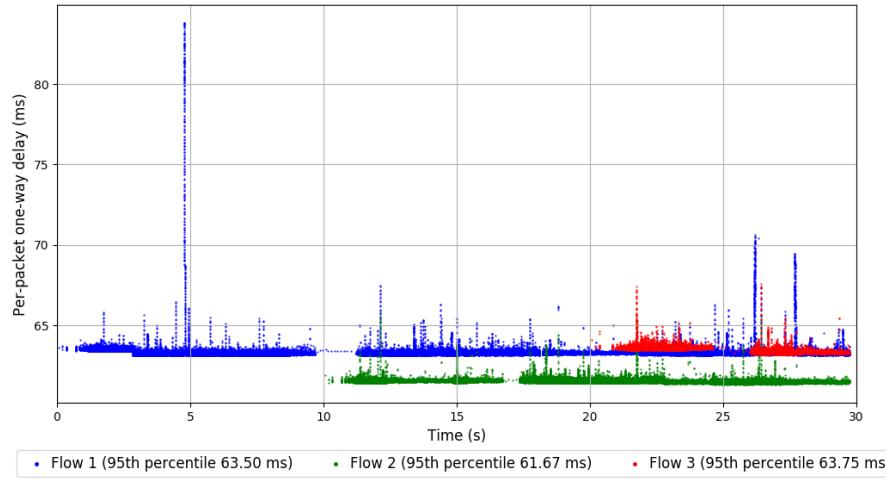
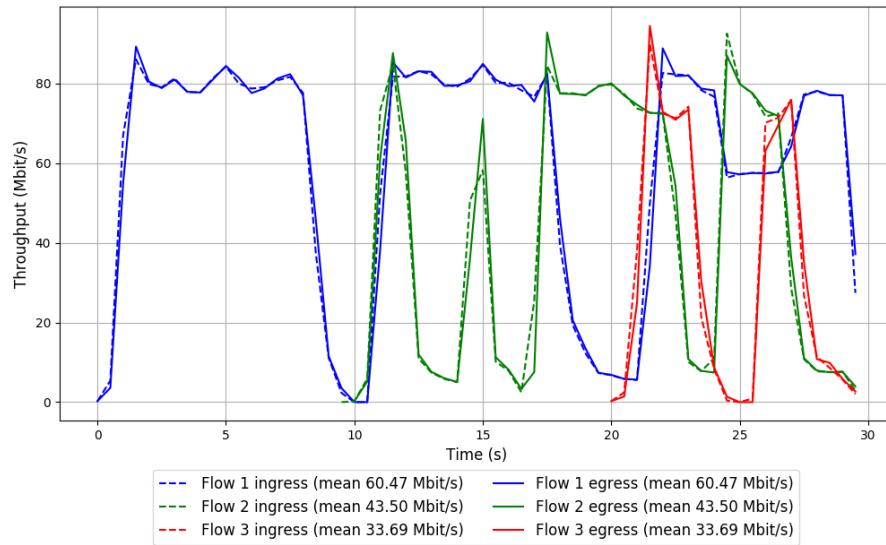
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-19 00:45:55

End at: 2018-04-19 00:46:25

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.29 Mbit/s
95th percentile per-packet one-way delay: 63.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.47 Mbit/s
95th percentile per-packet one-way delay: 63.496 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.50 Mbit/s
95th percentile per-packet one-way delay: 61.670 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.69 Mbit/s
95th percentile per-packet one-way delay: 63.747 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

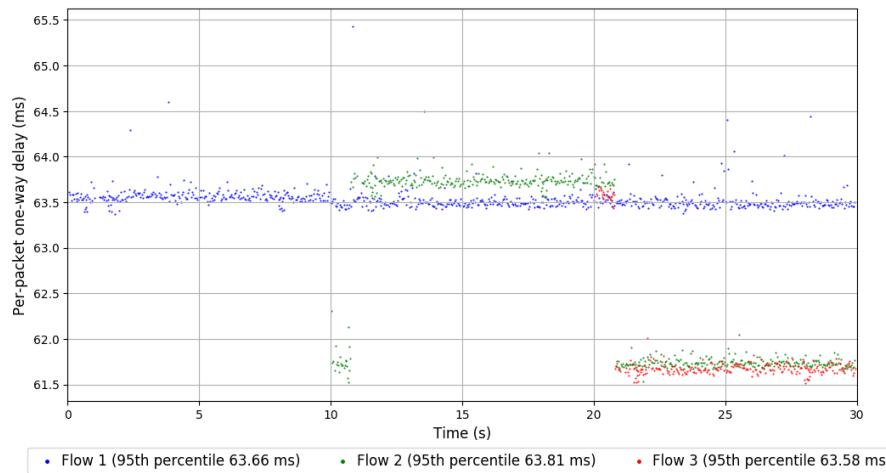
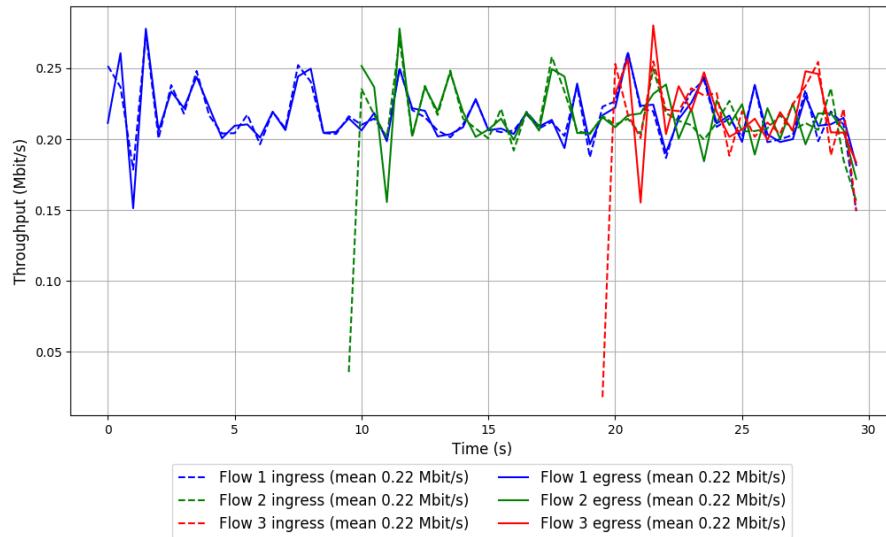


```
Run 1: Statistics of SCReAM

Start at: 2018-04-18 22:20:57
End at: 2018-04-18 22:21:27

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.768 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.655 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.812 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.575 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



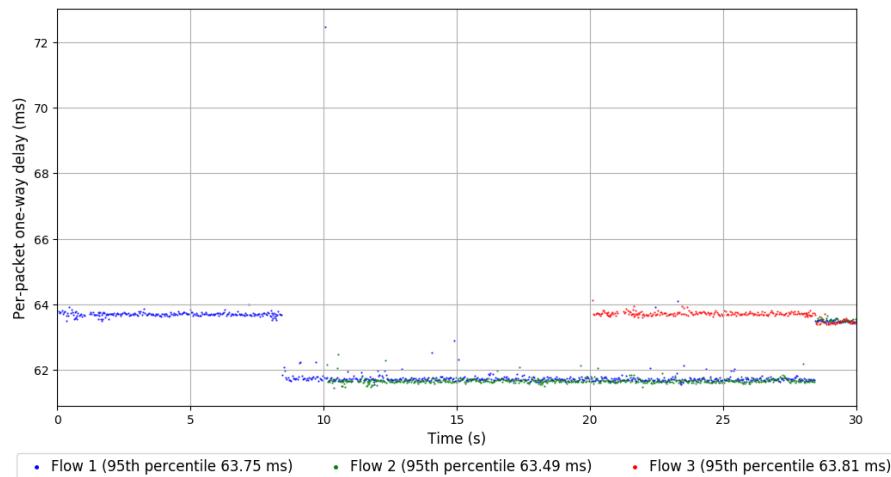
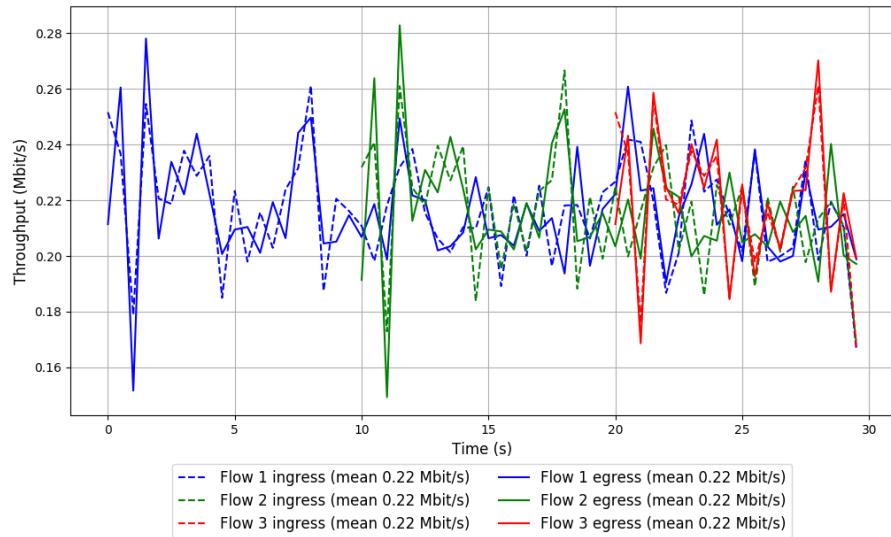
Run 2: Statistics of SCReAM

Start at: 2018-04-18 22:36:32

End at: 2018-04-18 22:37:02

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.752 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.486 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.813 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



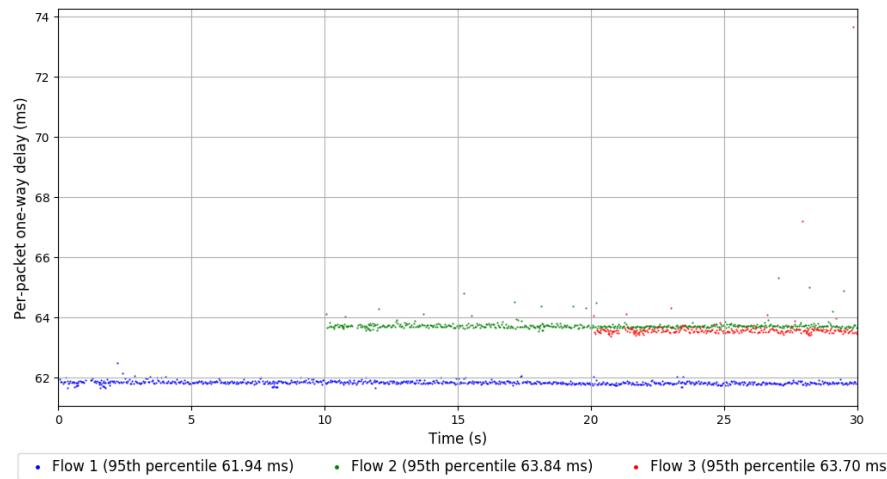
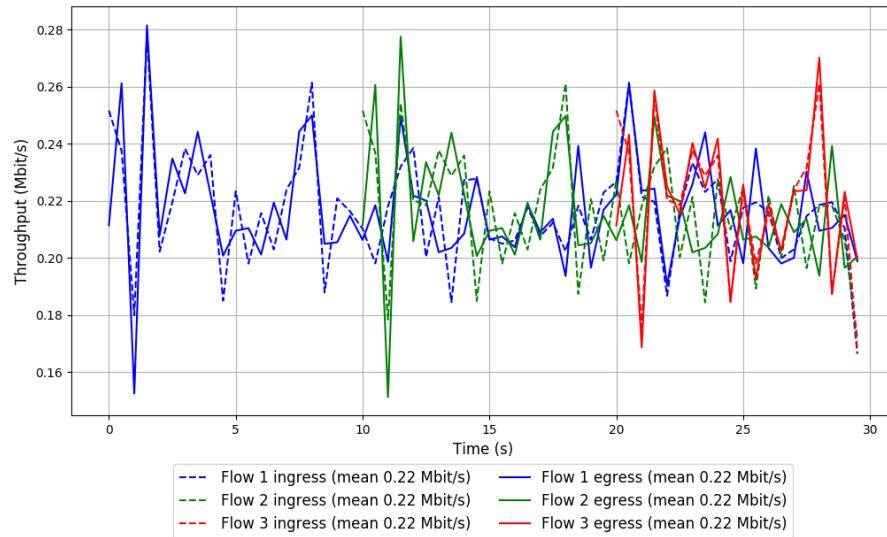
Run 3: Statistics of SCReAM

Start at: 2018-04-18 22:52:22

End at: 2018-04-18 22:52:52

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.935 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.843 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.705 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link



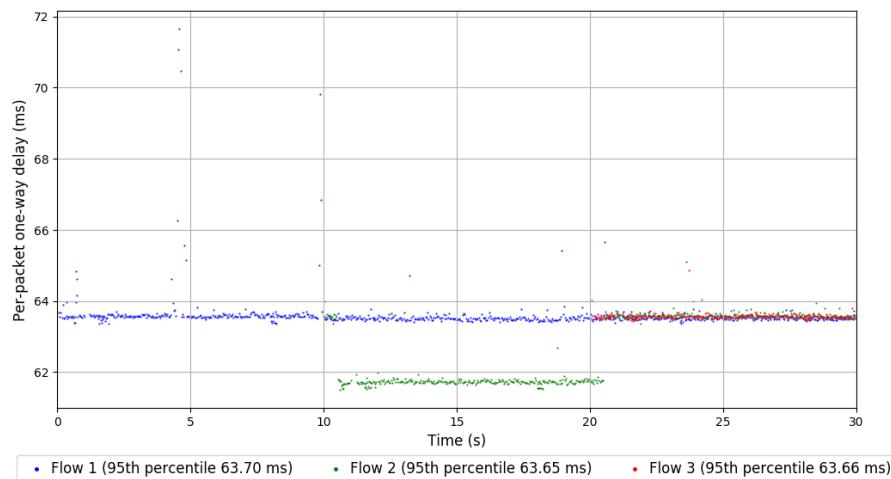
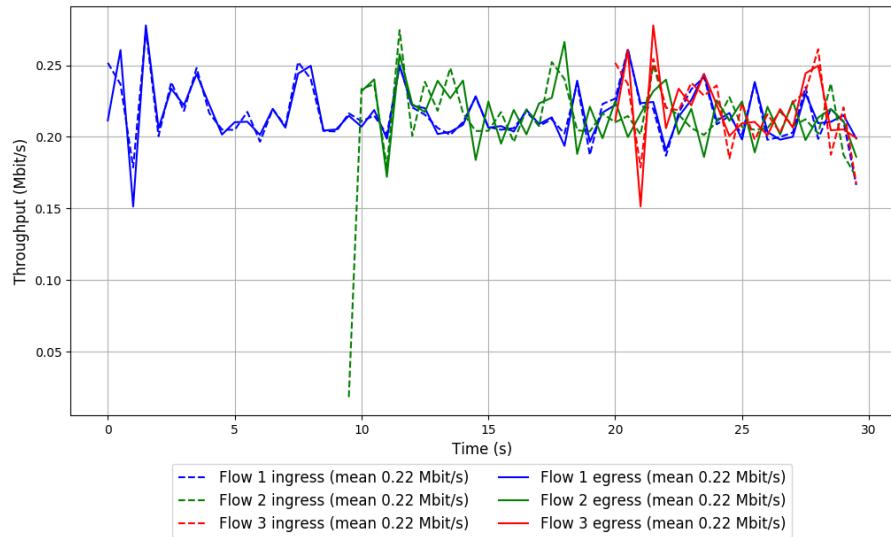
Run 4: Statistics of SCReAM

Start at: 2018-04-18 23:07:58

End at: 2018-04-18 23:08:28

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.701 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.654 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

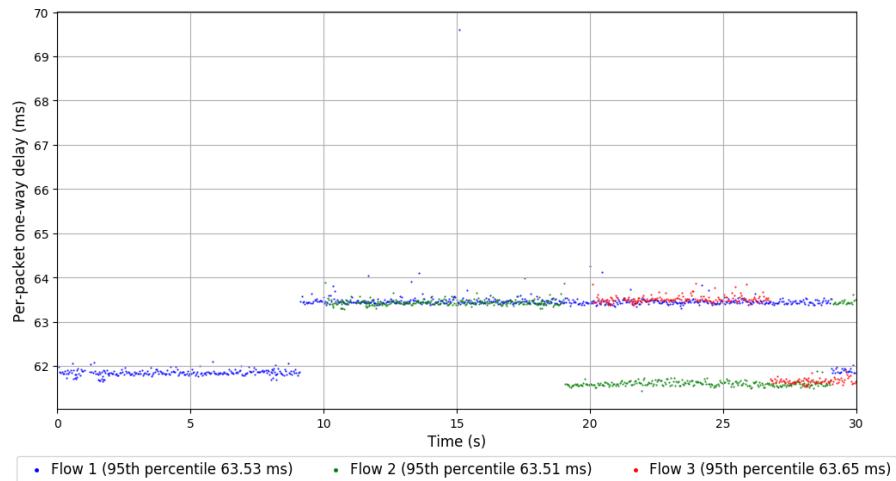
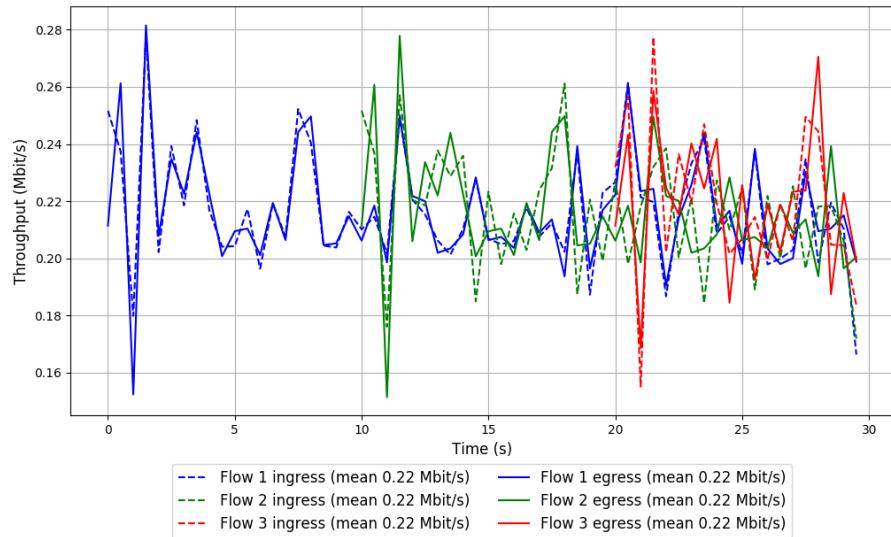


```
Run 5: Statistics of SCReAM

Start at: 2018-04-18 23:23:32
End at: 2018-04-18 23:24:02

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.555 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.534 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.509 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.646 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



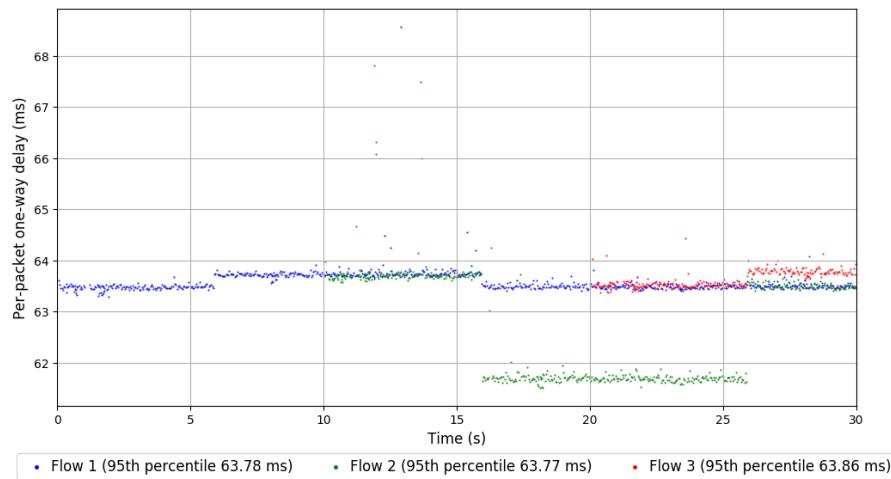
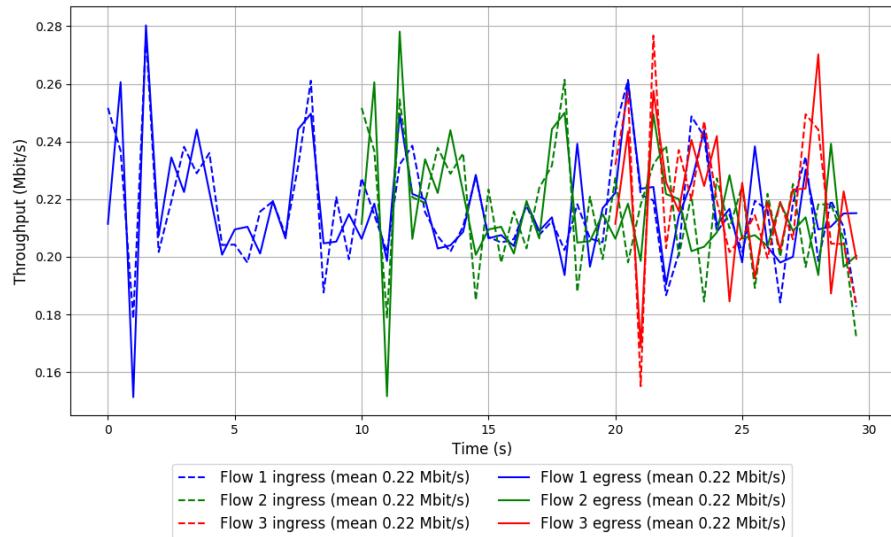
Run 6: Statistics of SCReAM

Start at: 2018-04-18 23:39:15

End at: 2018-04-18 23:39:45

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.780 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.774 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.862 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link



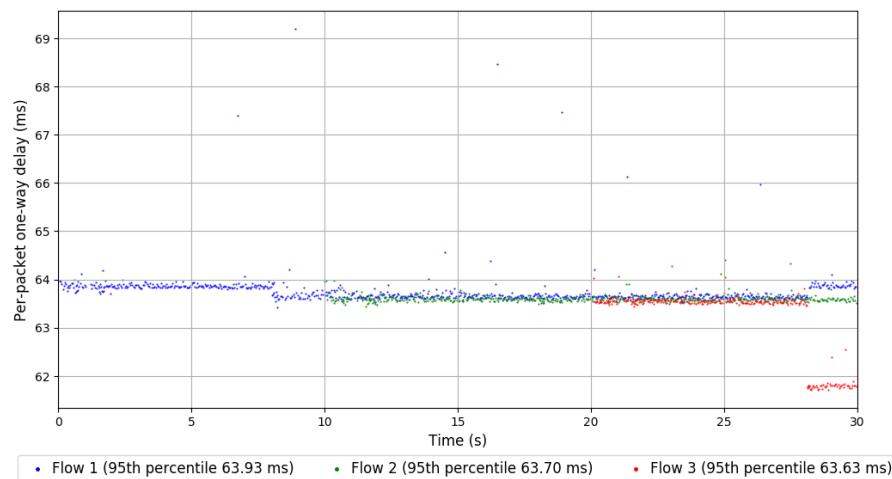
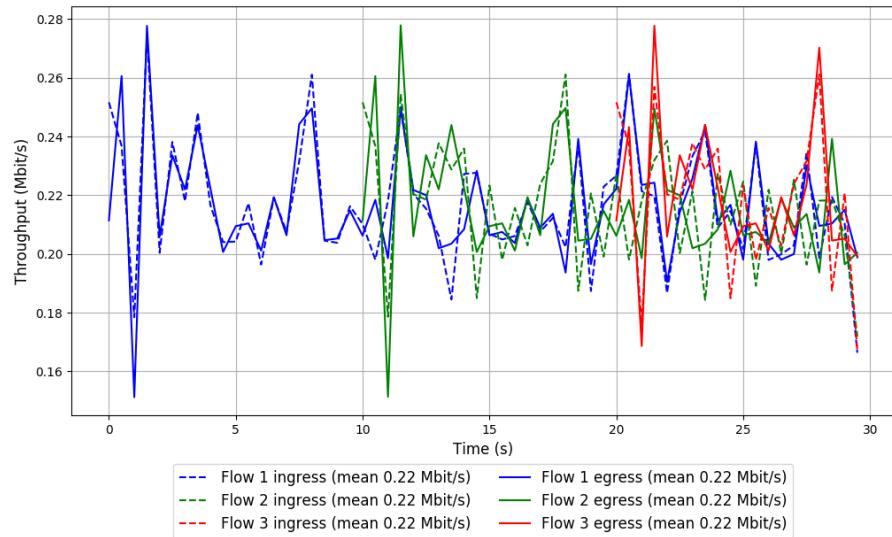
Run 7: Statistics of SCReAM

Start at: 2018-04-18 23:54:50

End at: 2018-04-18 23:55:20

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.930 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.696 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.633 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link



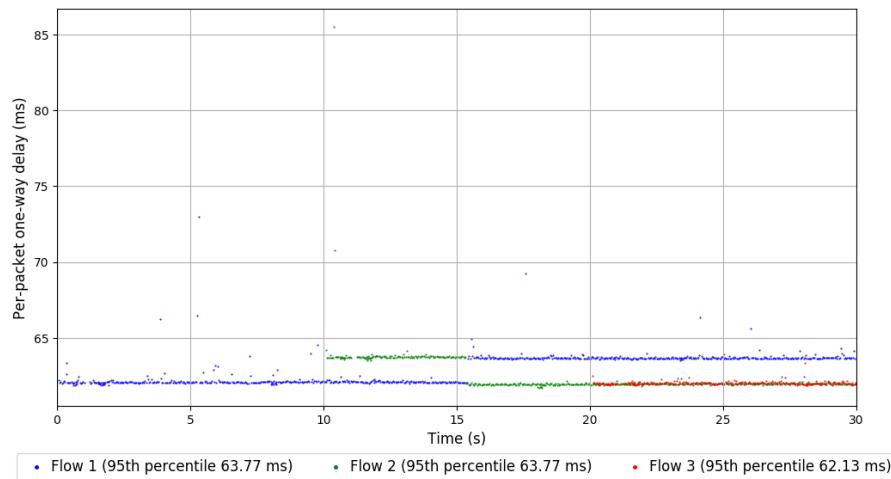
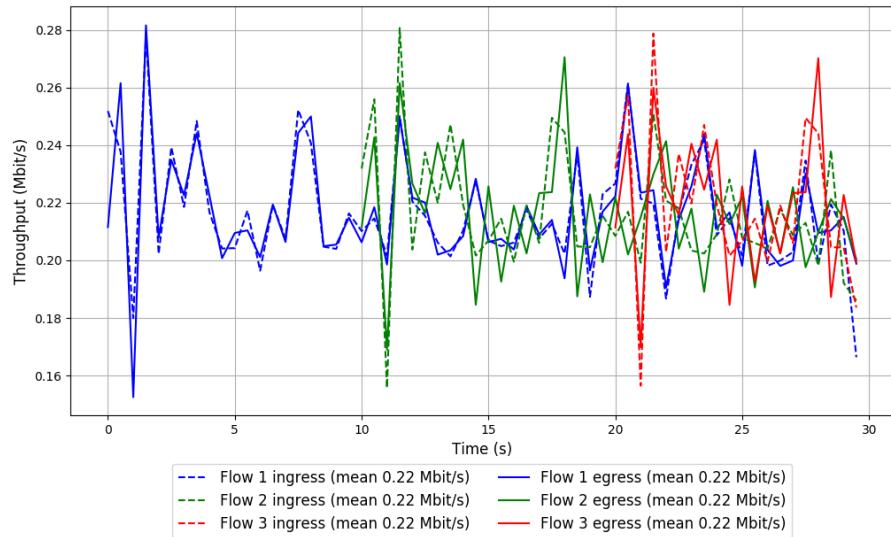
Run 8: Statistics of SCReAM

Start at: 2018-04-19 00:10:35

End at: 2018-04-19 00:11:05

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.766 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.772 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.131 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



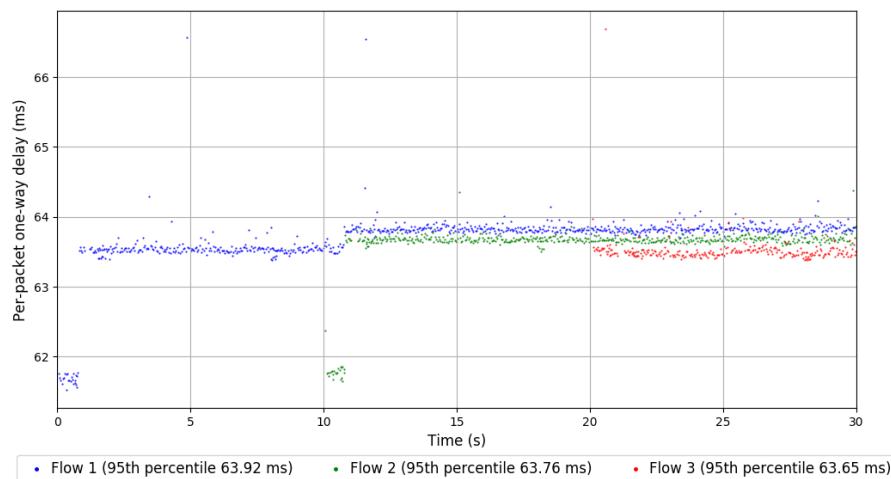
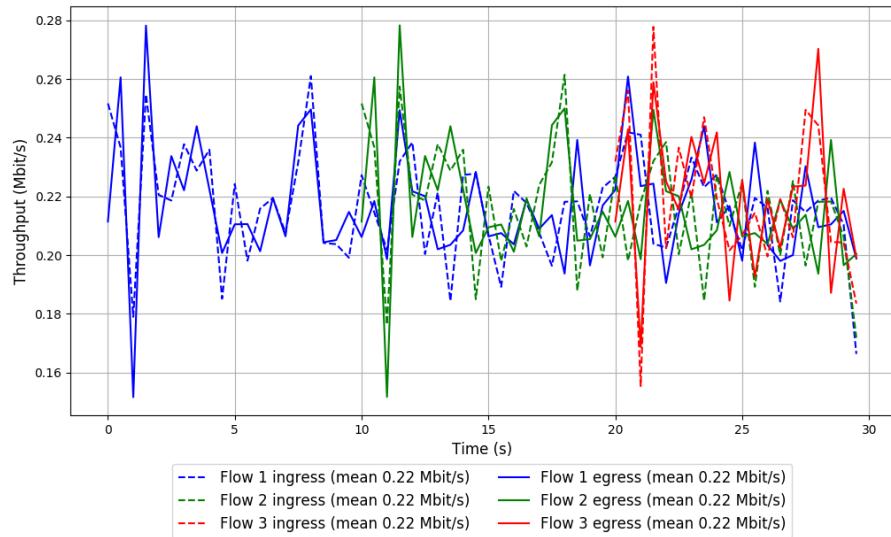
Run 9: Statistics of SCReAM

Start at: 2018-04-19 00:26:10

End at: 2018-04-19 00:26:40

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.919 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.757 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.651 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link



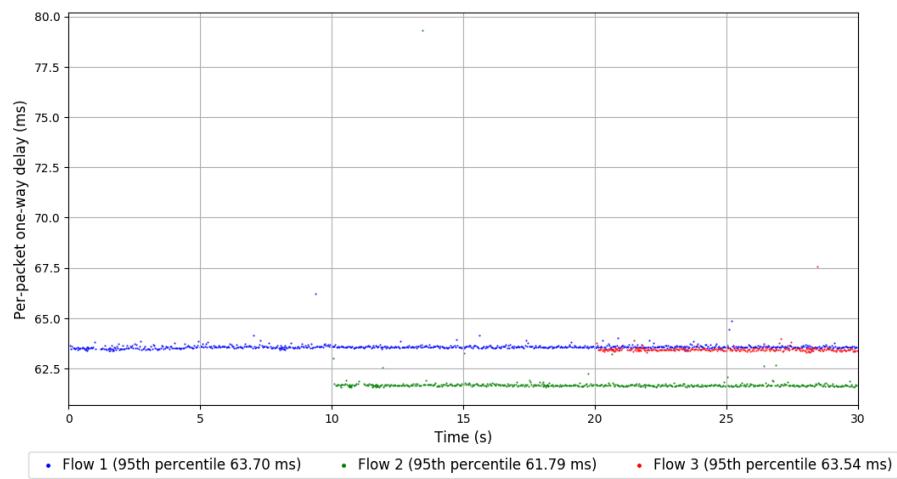
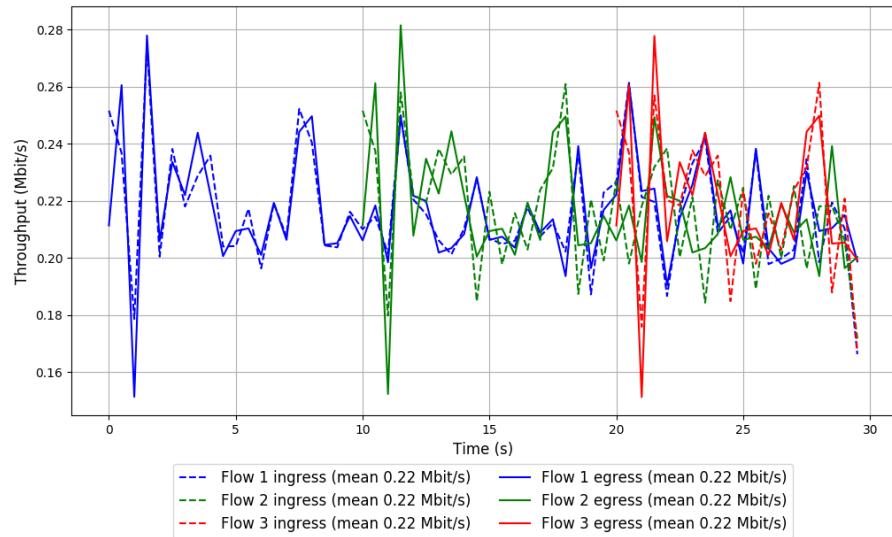
Run 10: Statistics of SCReAM

Start at: 2018-04-19 00:41:36

End at: 2018-04-19 00:42:06

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.701 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.788 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.544 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

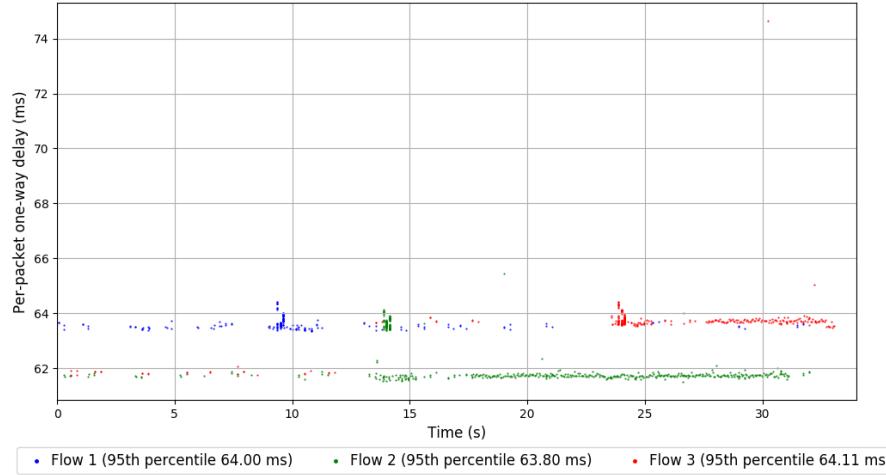
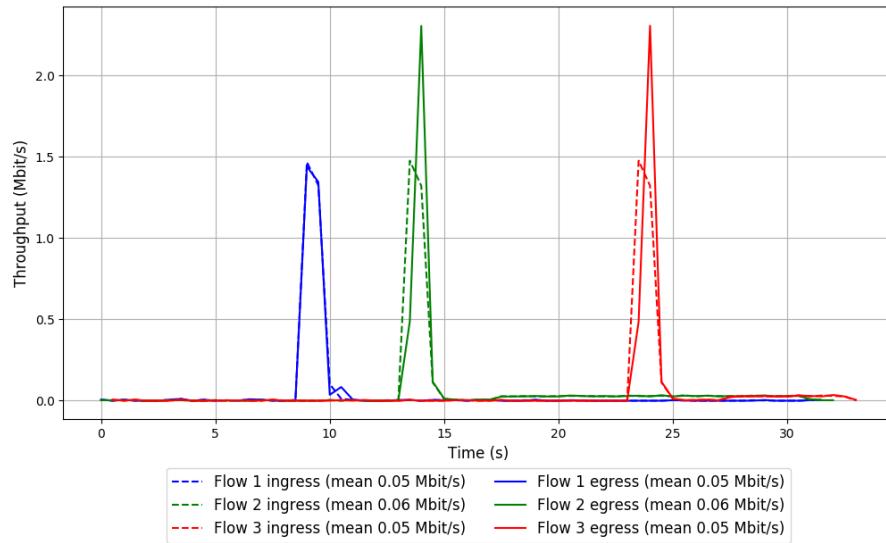


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-18 22:16:49
End at: 2018-04-18 22:17:19

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 63.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.996 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.801 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.109 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

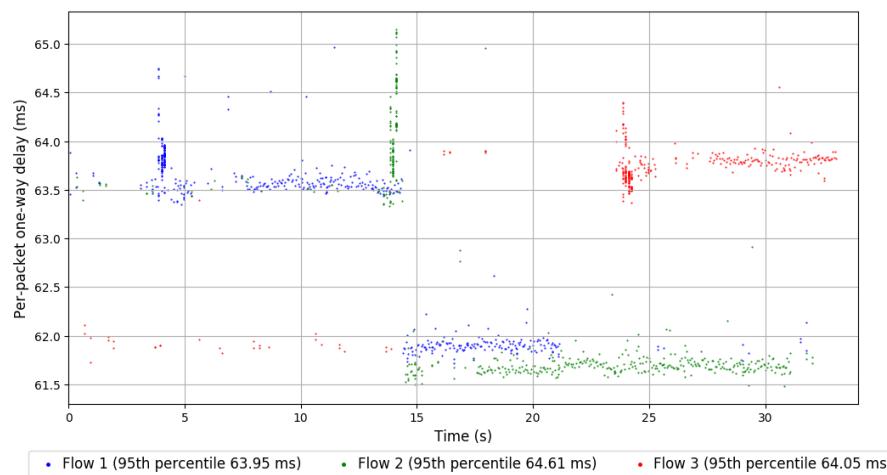
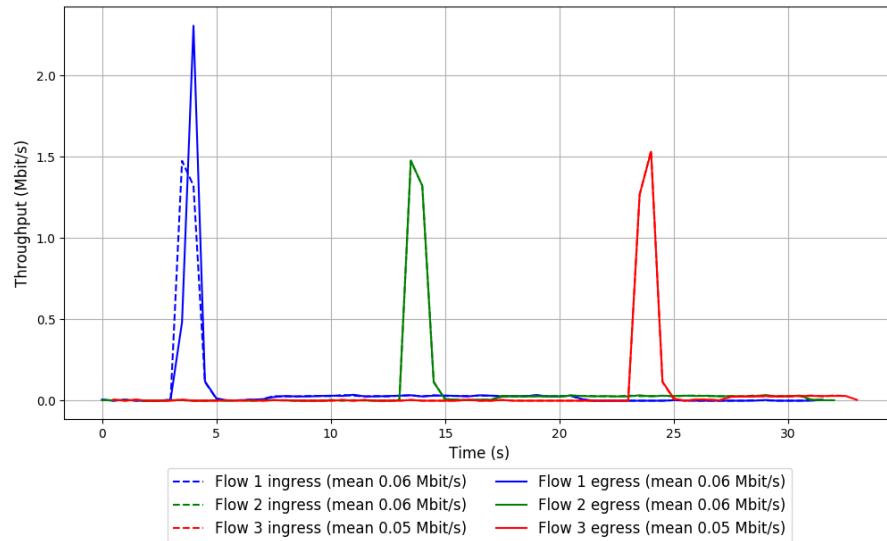


```
Run 2: Statistics of WebRTC media

Start at: 2018-04-18 22:32:17
End at: 2018-04-18 22:32:47

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 64.184 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 64.608 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.047 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

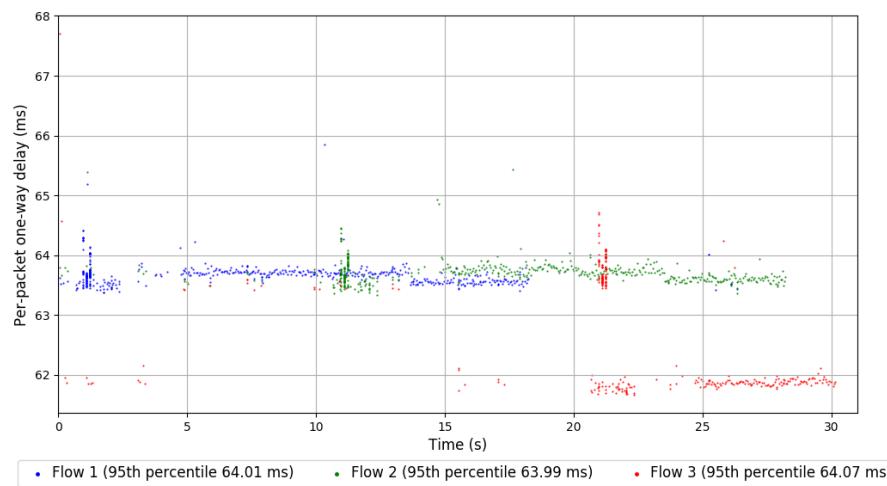
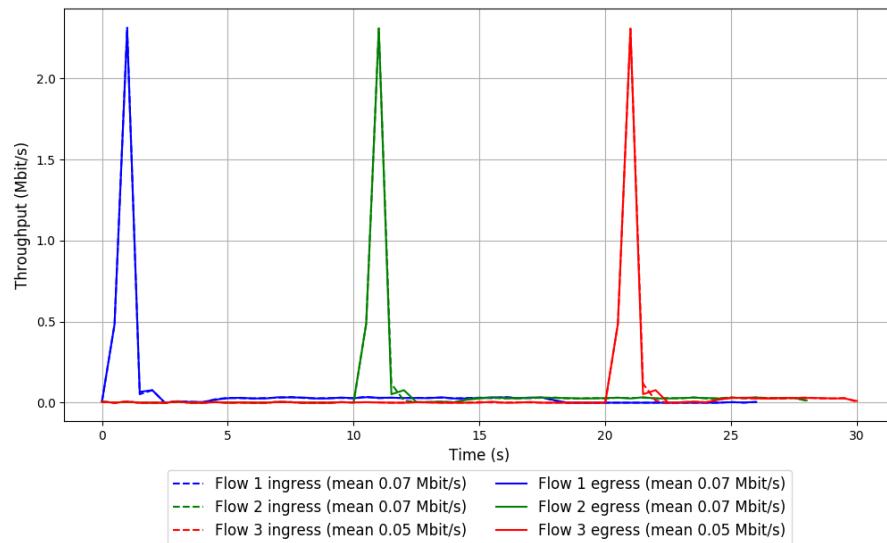


```
Run 3: Statistics of WebRTC media

Start at: 2018-04-18 22:48:07
End at: 2018-04-18 22:48:37

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 64.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 64.010 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 63.994 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.069 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

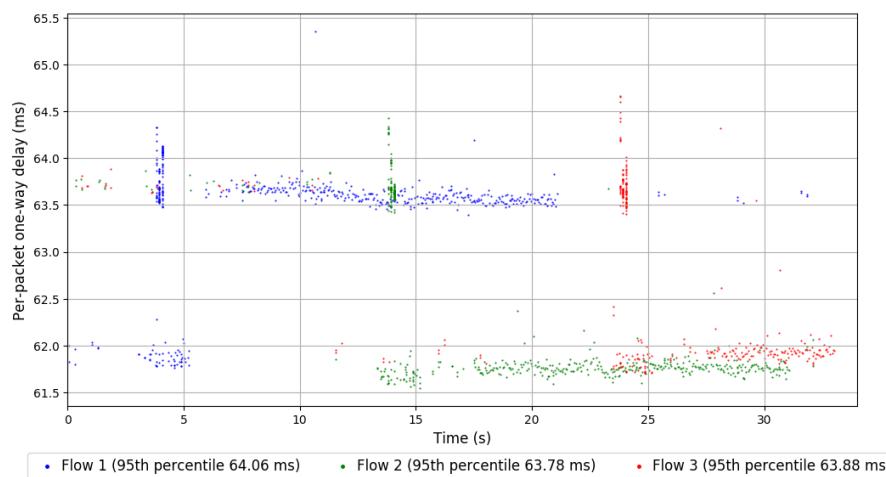
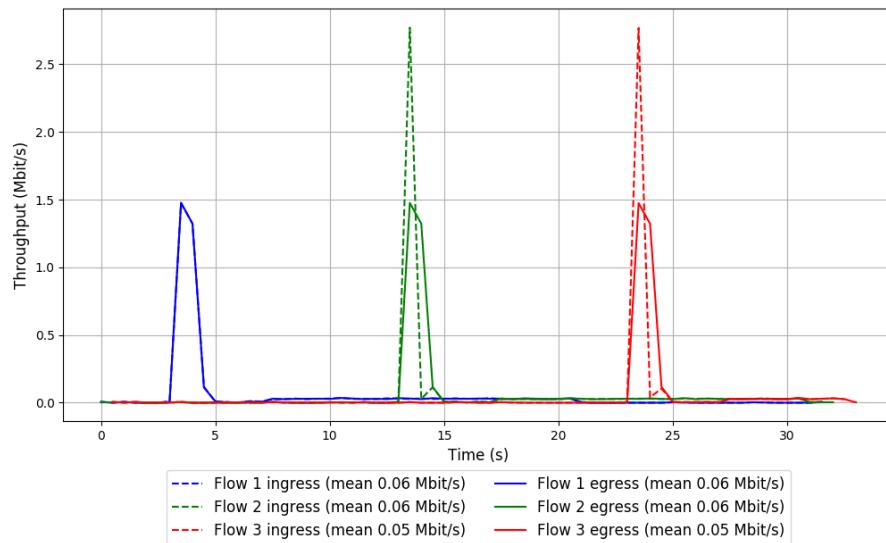


```
Run 4: Statistics of WebRTC media

Start at: 2018-04-18 23:03:42
End at: 2018-04-18 23:04:12

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 63.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 64.058 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.778 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.882 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

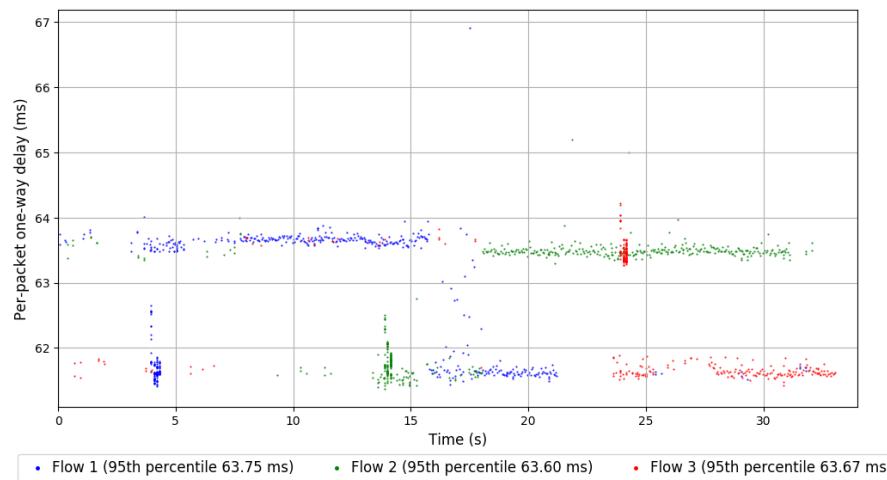
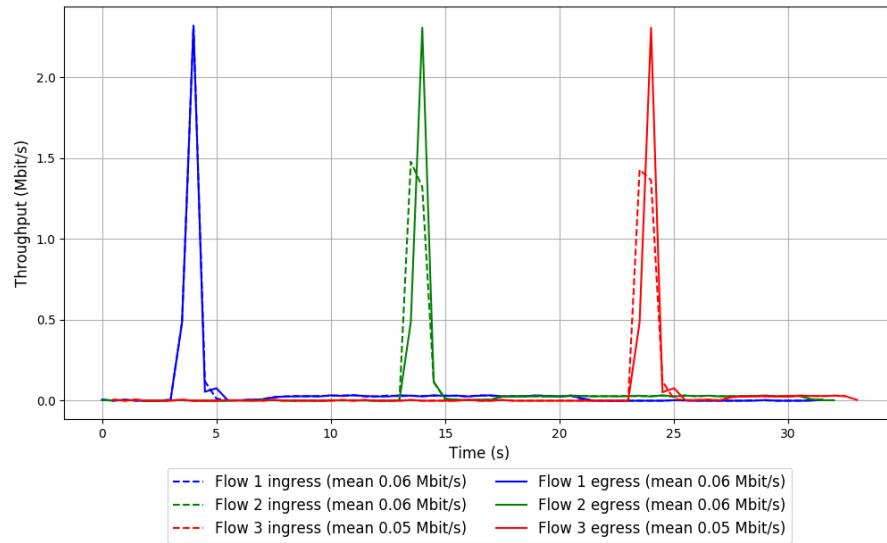


```
Run 5: Statistics of WebRTC media

Start at: 2018-04-18 23:19:16
End at: 2018-04-18 23:19:46

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.750 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.666 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

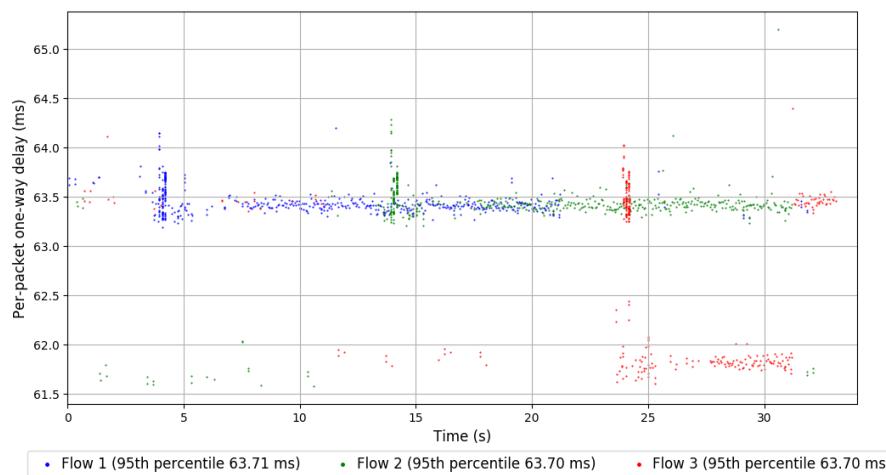
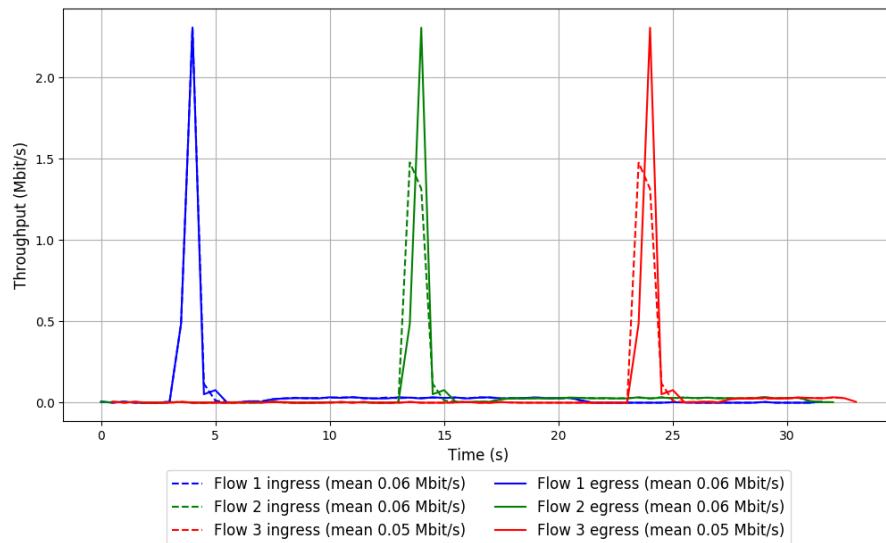


```
Run 6: Statistics of WebRTC media

Start at: 2018-04-18 23:35:00
End at: 2018-04-18 23:35:30

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 63.700 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.712 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.696 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.698 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

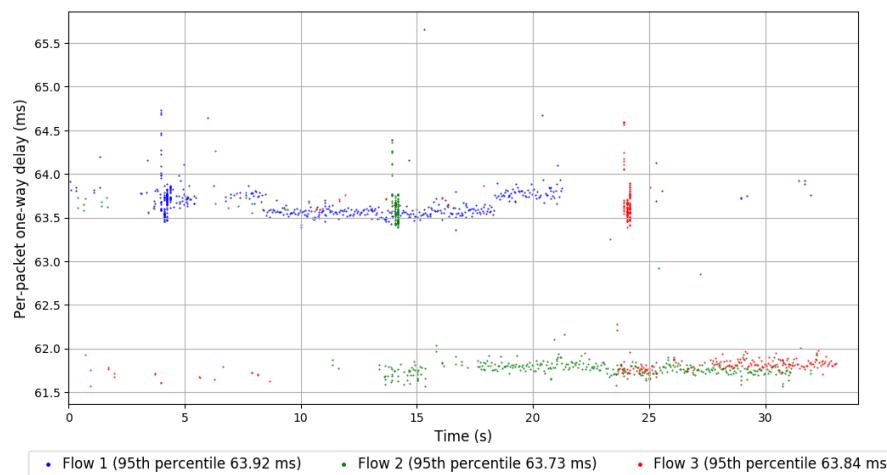
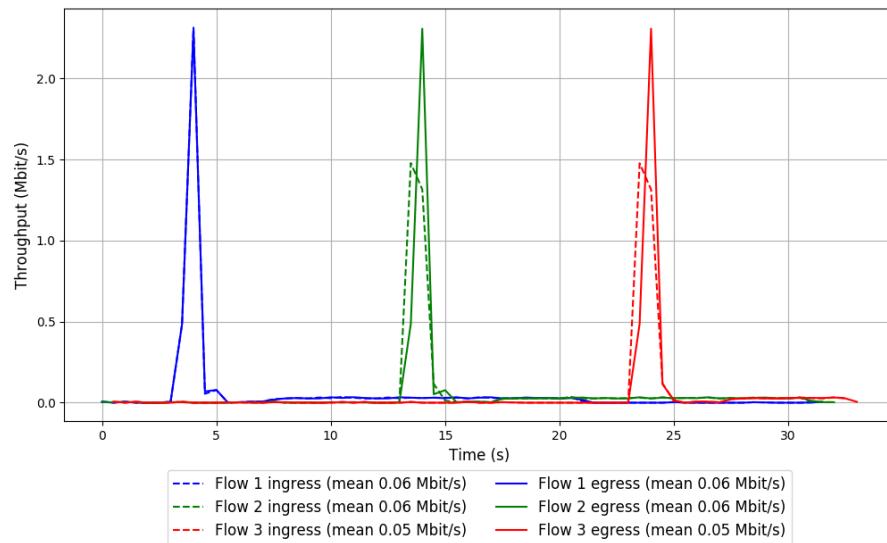


```
Run 7: Statistics of WebRTC media

Start at: 2018-04-18 23:50:33
End at: 2018-04-18 23:51:03

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.924 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.725 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.842 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

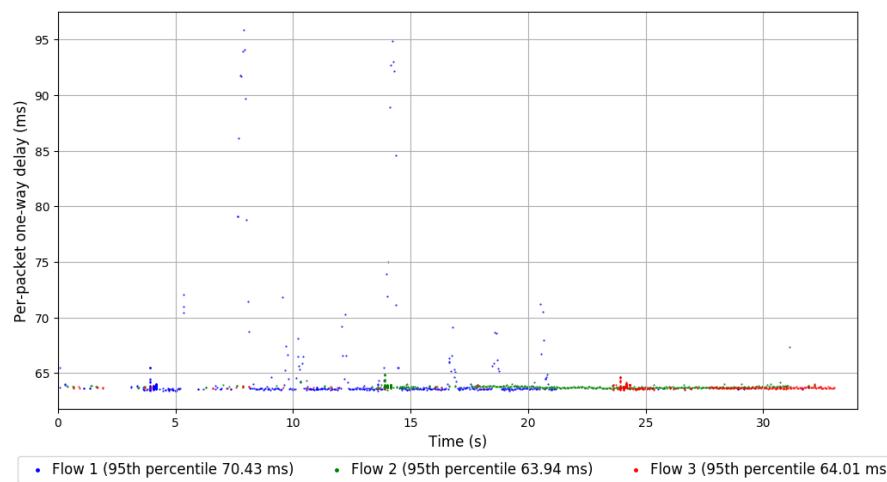
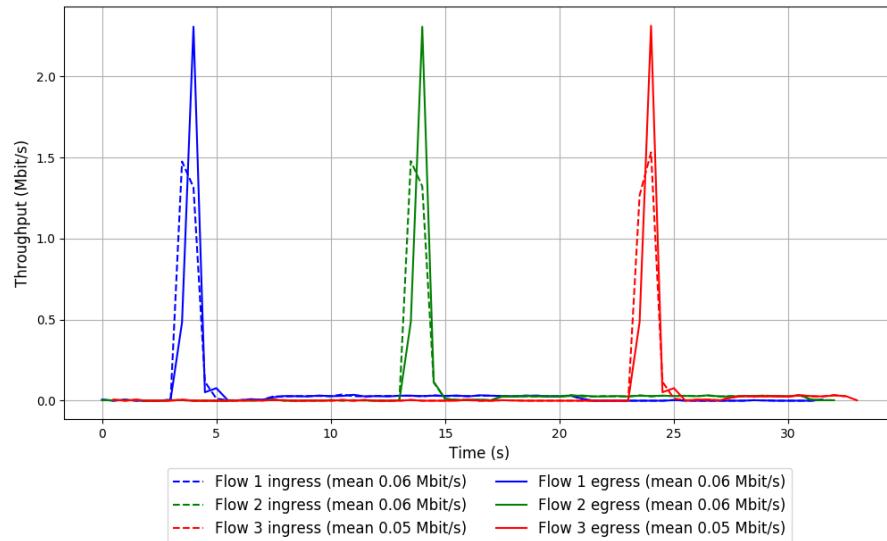


```
Run 8: Statistics of WebRTC media

Start at: 2018-04-19 00:06:21
End at: 2018-04-19 00:06:51

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 64.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 70.433 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.936 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.009 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link



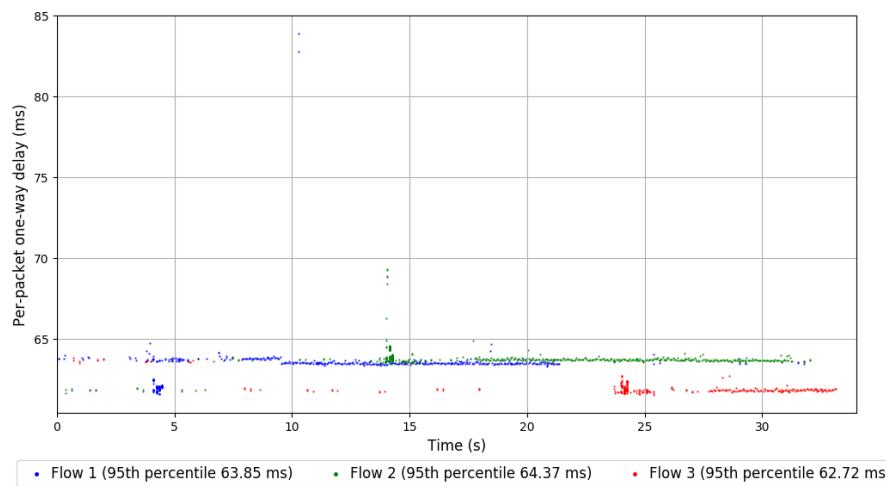
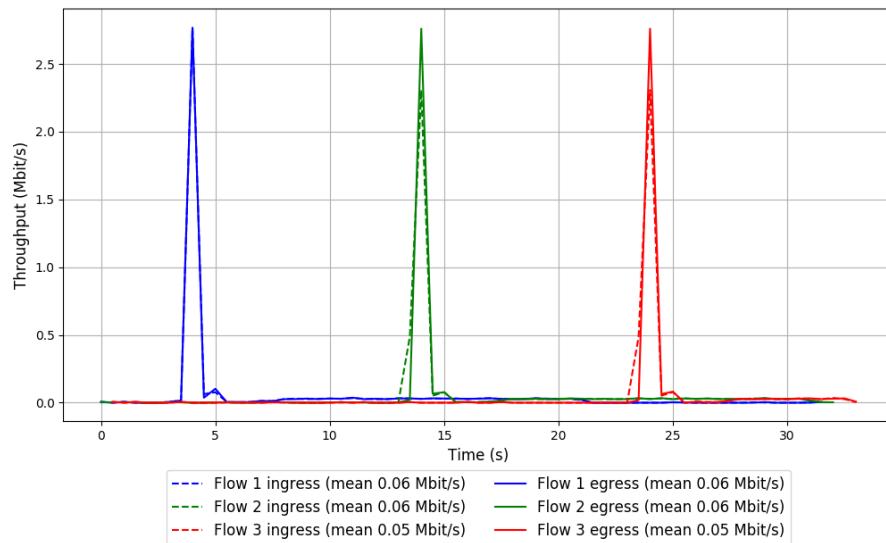
Run 9: Statistics of WebRTC media

Start at: 2018-04-19 00:21:54

End at: 2018-04-19 00:22:25

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 63.969 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 64.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.716 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

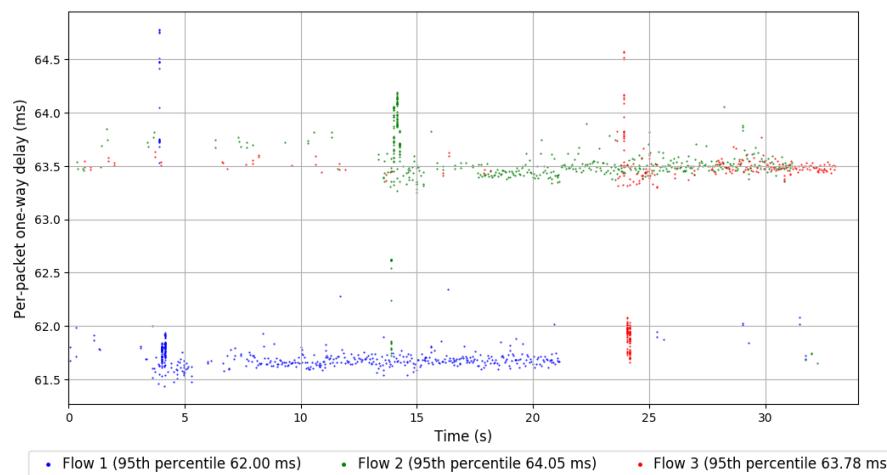
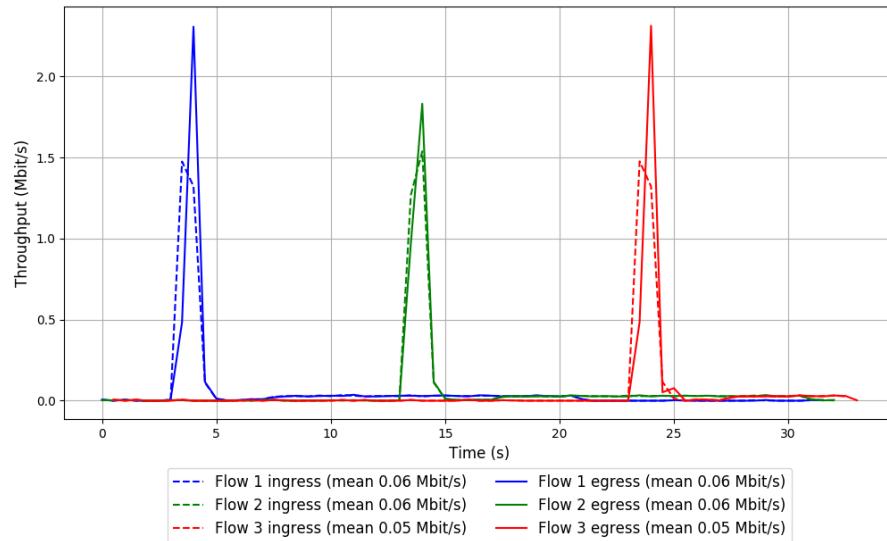


```
Run 10: Statistics of WebRTC media

Start at: 2018-04-19 00:37:20
End at: 2018-04-19 00:37:50

# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 63.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 62.001 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 64.047 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.785 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



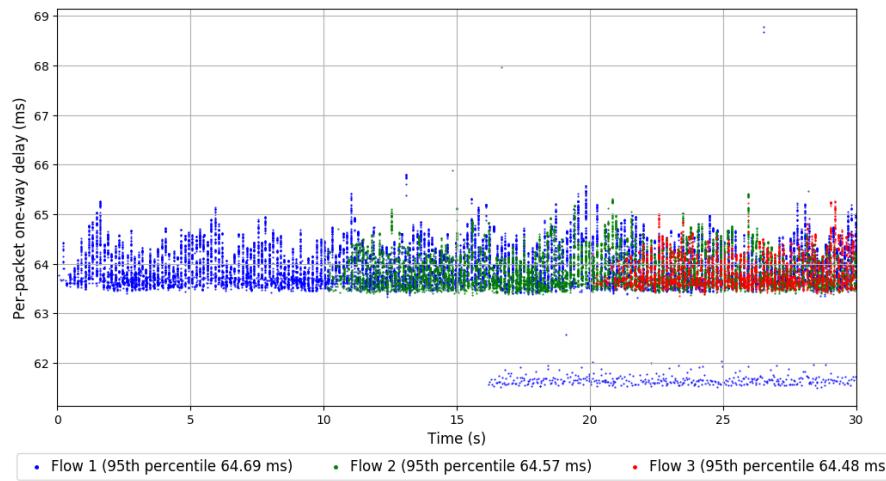
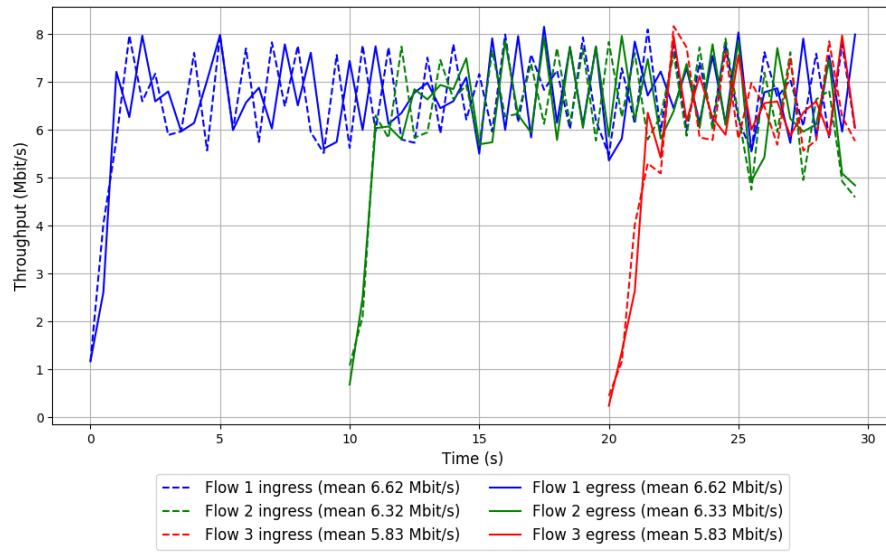
Run 1: Statistics of Sprout

Start at: 2018-04-18 22:19:22

End at: 2018-04-18 22:19:52

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.75 Mbit/s
95th percentile per-packet one-way delay: 64.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 64.687 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 64.573 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.83 Mbit/s
95th percentile per-packet one-way delay: 64.476 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



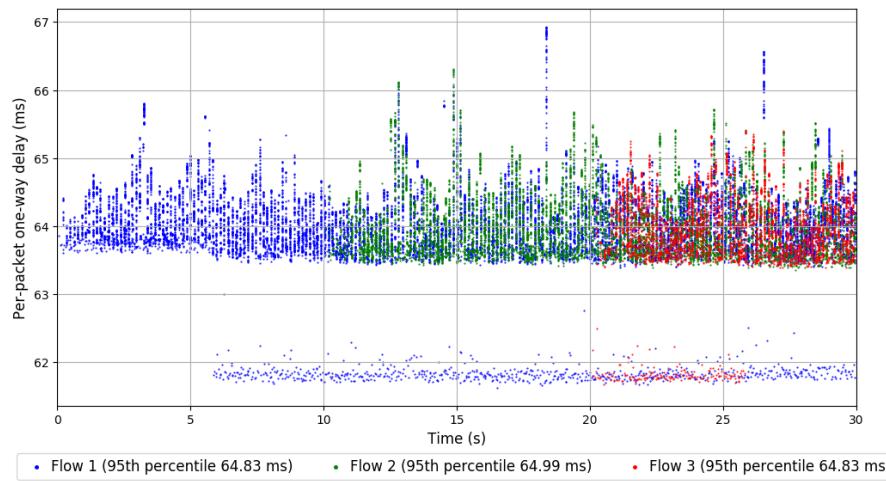
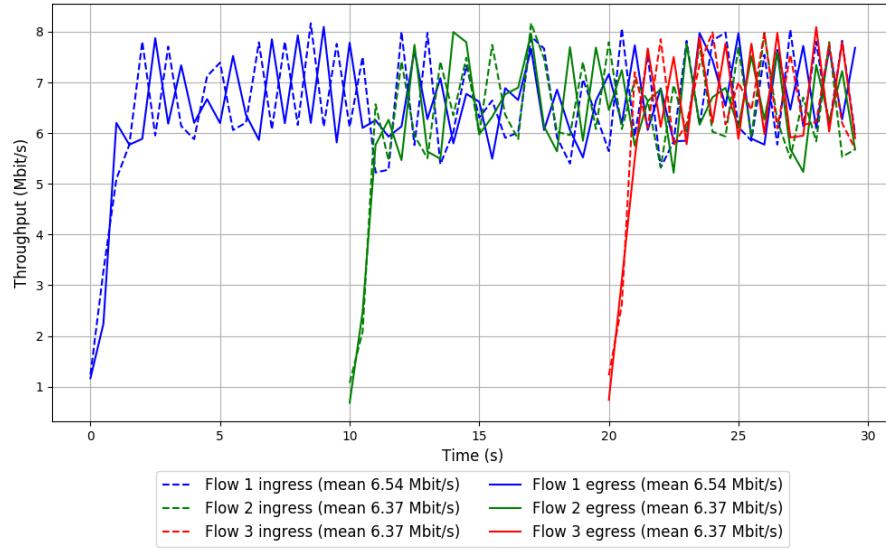
Run 2: Statistics of Sprout

Start at: 2018-04-18 22:34:55

End at: 2018-04-18 22:35:25

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 64.889 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 64.828 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 64.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 64.825 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



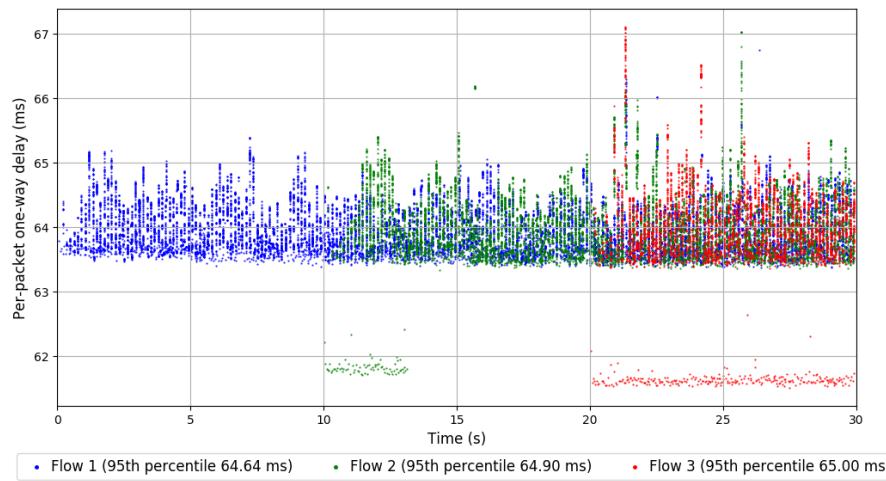
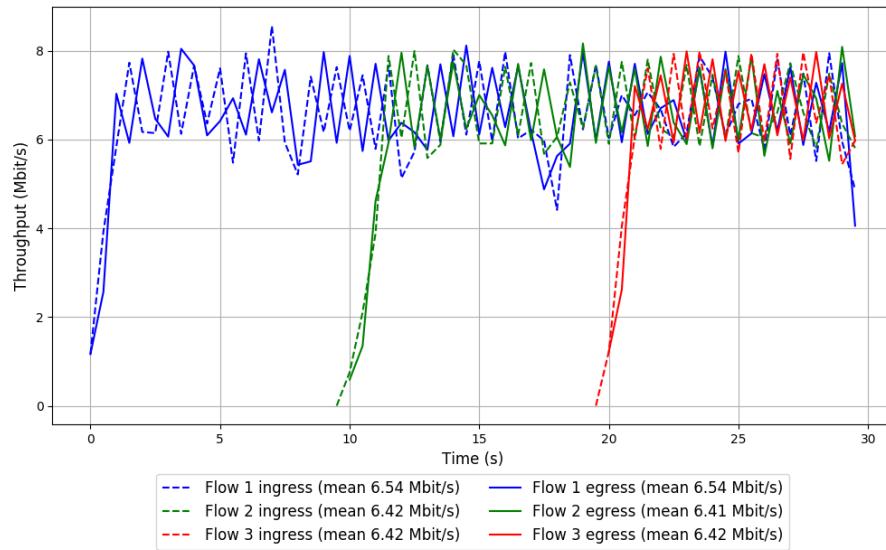
Run 3: Statistics of Sprout

Start at: 2018-04-18 22:50:45

End at: 2018-04-18 22:51:15

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 64.778 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 64.643 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 64.903 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 6.42 Mbit/s
95th percentile per-packet one-way delay: 64.995 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link



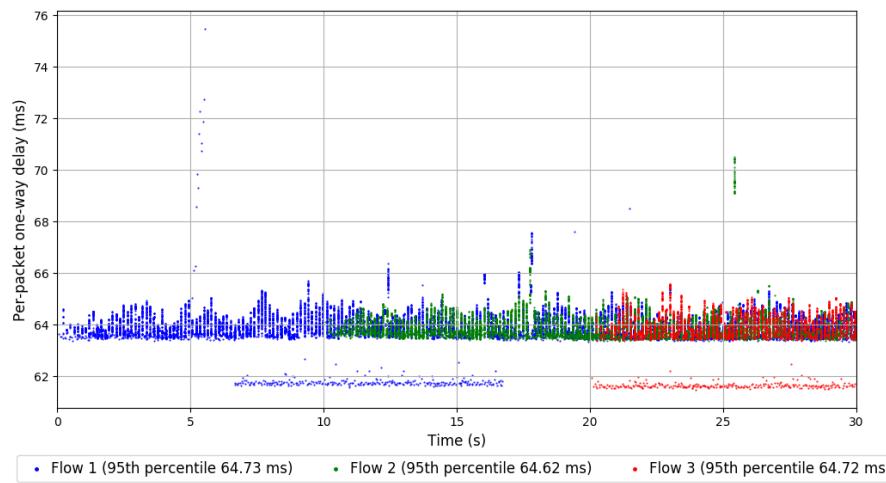
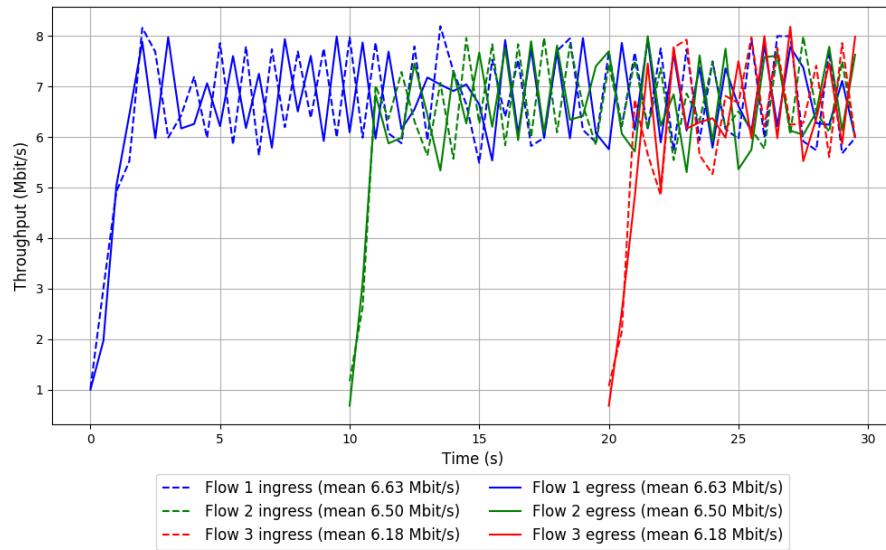
Run 4: Statistics of Sprout

Start at: 2018-04-18 23:06:22

End at: 2018-04-18 23:06:52

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 64.705 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 64.729 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 64.623 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 64.717 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



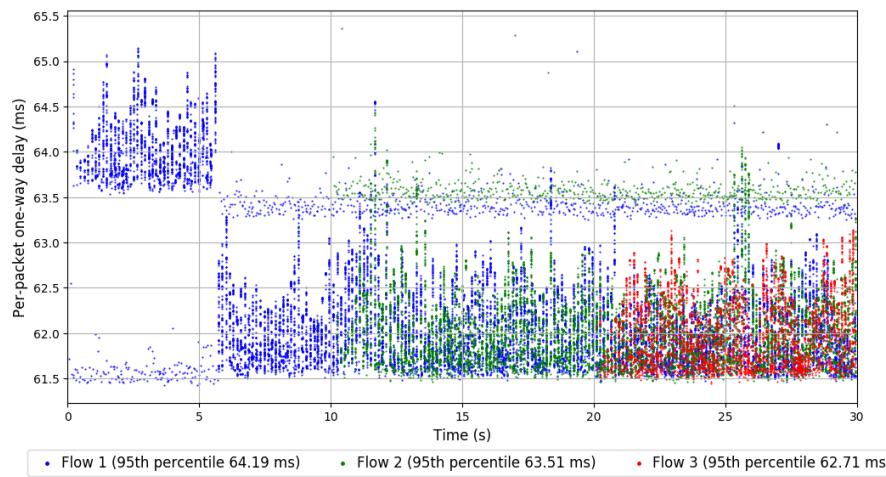
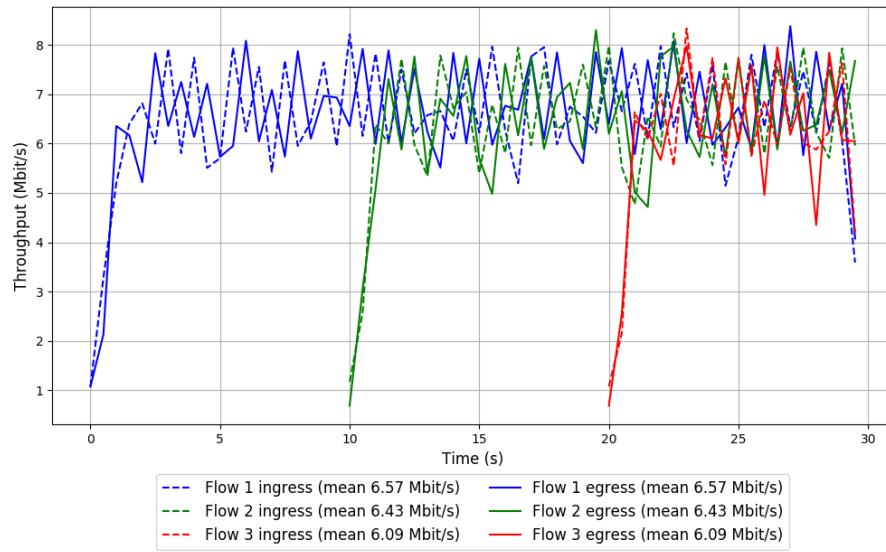
Run 5: Statistics of Sprout

Start at: 2018-04-18 23:21:55

End at: 2018-04-18 23:22:25

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.84 Mbit/s
95th percentile per-packet one-way delay: 63.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 64.193 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 63.514 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 62.714 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link



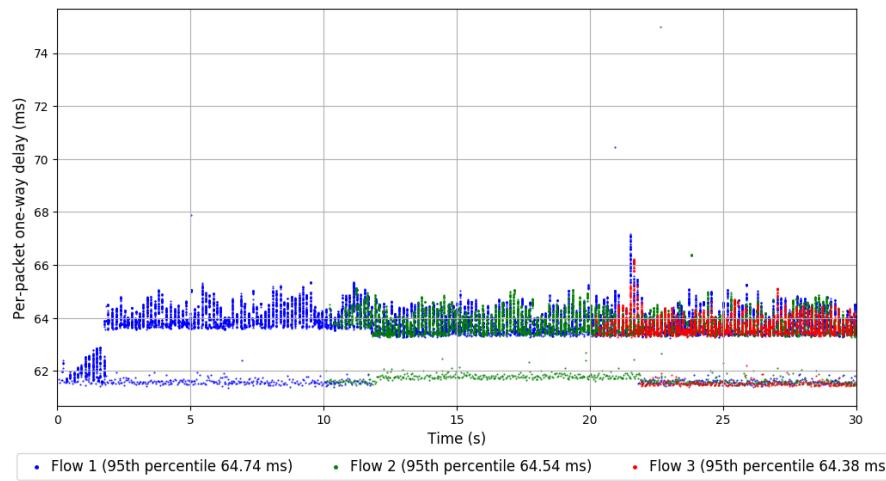
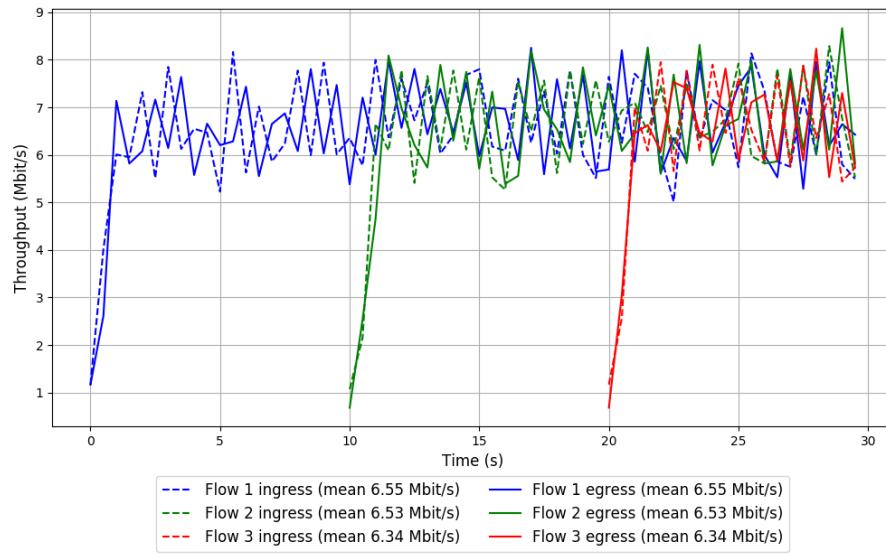
Run 6: Statistics of Sprout

Start at: 2018-04-18 23:37:39

End at: 2018-04-18 23:38:09

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 64.637 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 64.736 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 64.540 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 64.379 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link



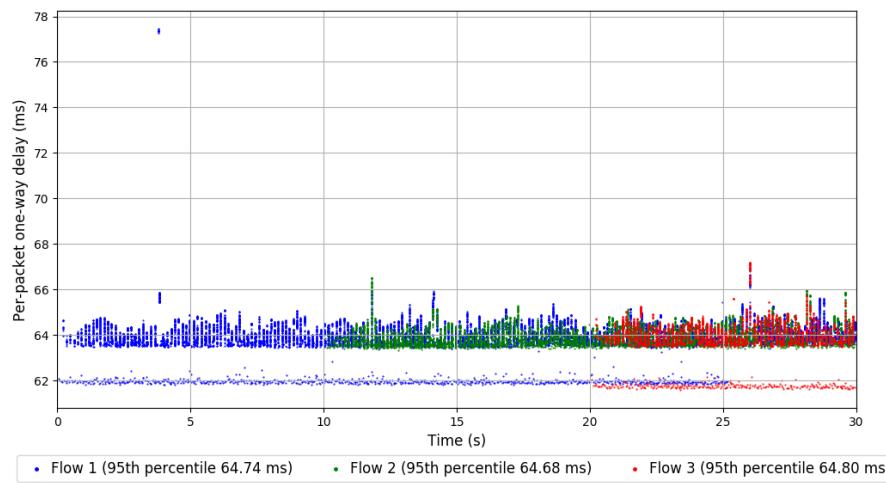
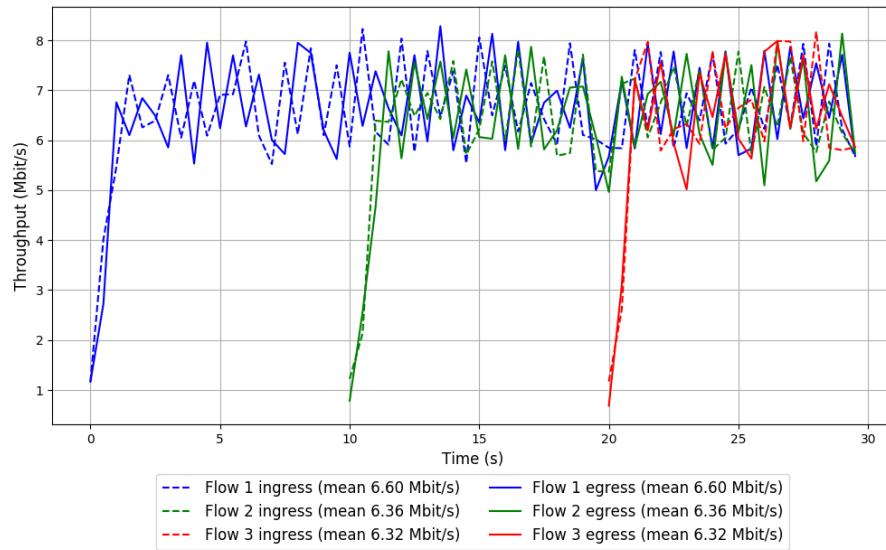
Run 7: Statistics of Sprout

Start at: 2018-04-18 23:53:13

End at: 2018-04-18 23:53:43

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.90 Mbit/s
95th percentile per-packet one-way delay: 64.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 64.737 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.36 Mbit/s
95th percentile per-packet one-way delay: 64.677 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 6.32 Mbit/s
95th percentile per-packet one-way delay: 64.804 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



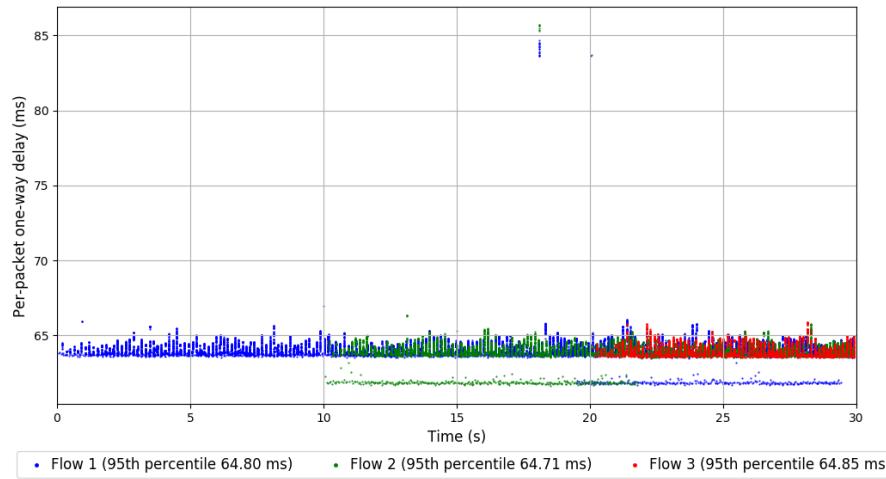
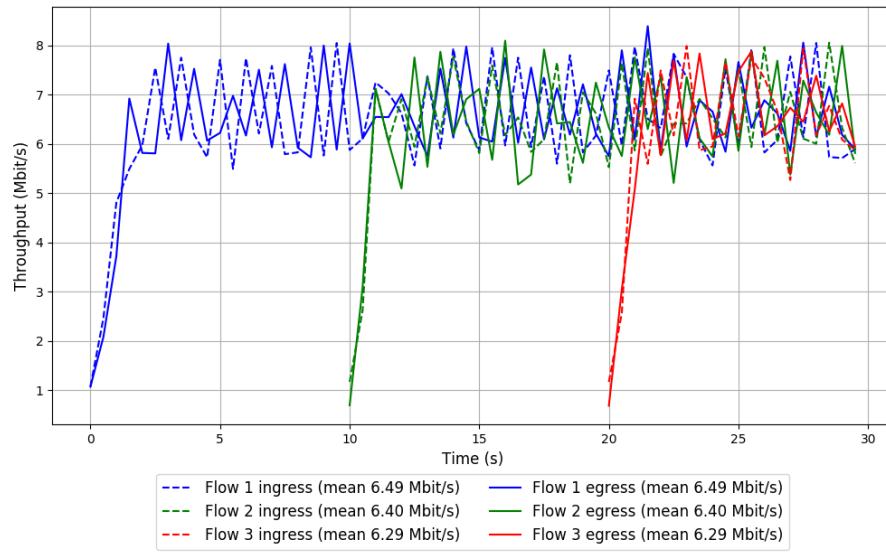
Run 8: Statistics of Sprout

Start at: 2018-04-19 00:08:59

End at: 2018-04-19 00:09:29

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 64.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 64.799 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 64.713 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 64.847 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



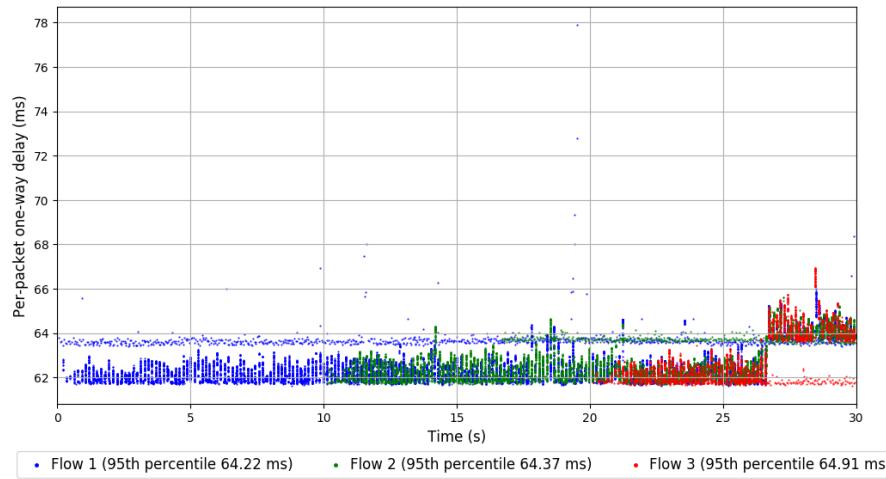
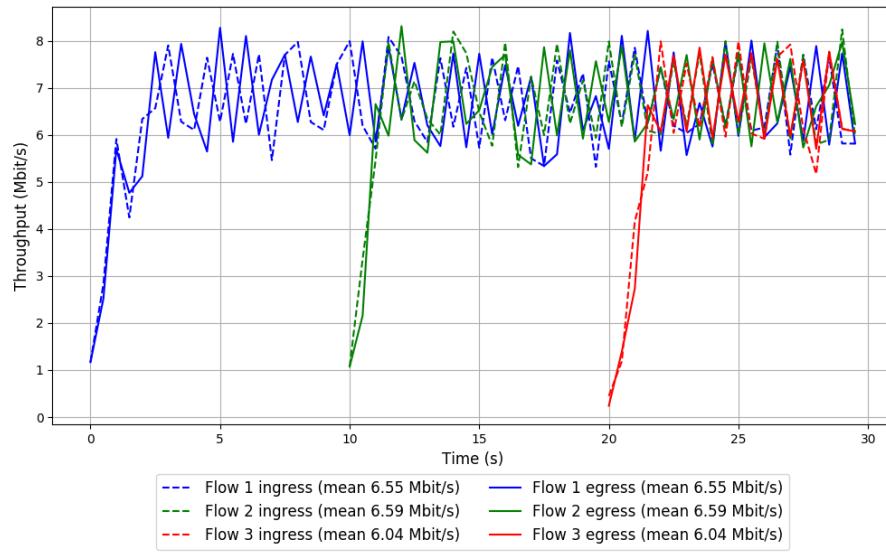
Run 9: Statistics of Sprout

Start at: 2018-04-19 00:24:34

End at: 2018-04-19 00:25:04

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 64.425 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 64.221 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 64.367 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.04 Mbit/s
95th percentile per-packet one-way delay: 64.907 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link



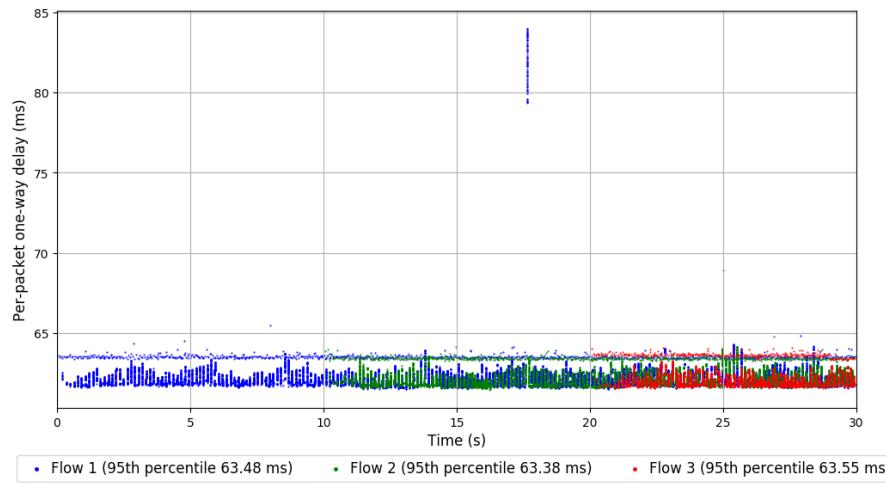
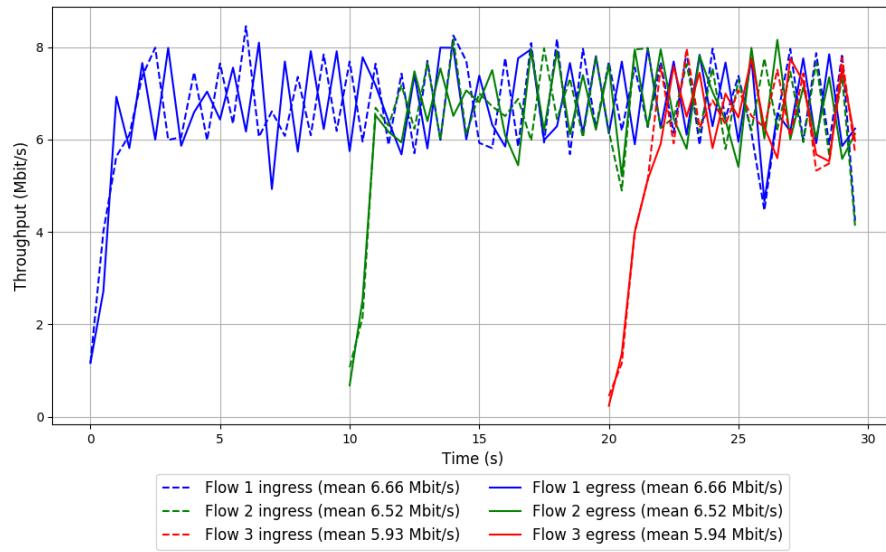
Run 10: Statistics of Sprout

Start at: 2018-04-19 00:39:59

End at: 2018-04-19 00:40:29

```
# Below is generated by plot.py at 2018-04-19 03:22:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 63.437 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 63.482 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 63.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 63.550 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

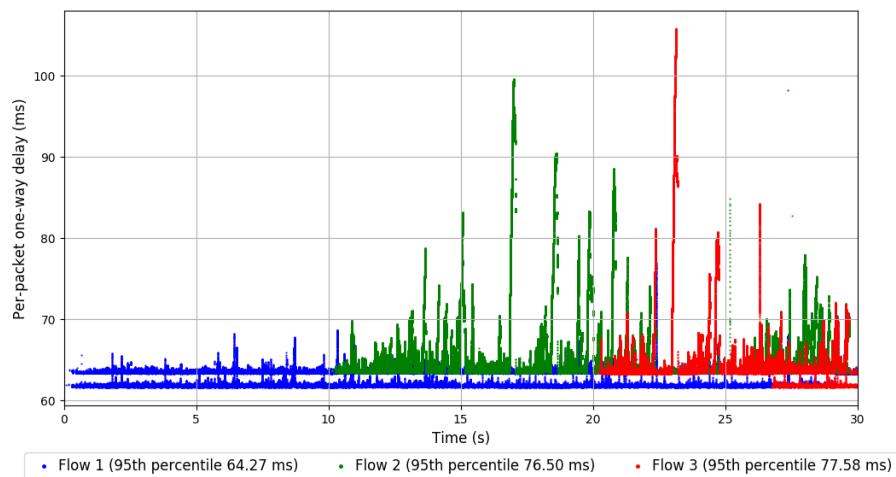
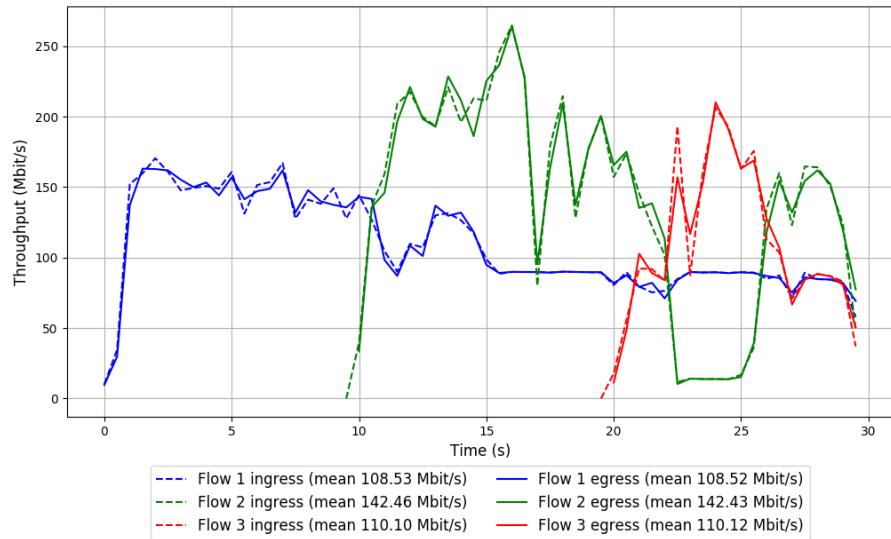


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-18 22:24:22
End at: 2018-04-18 22:24:52

# Below is generated by plot.py at 2018-04-19 03:28:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 238.80 Mbit/s
95th percentile per-packet one-way delay: 71.573 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 108.52 Mbit/s
95th percentile per-packet one-way delay: 64.268 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.43 Mbit/s
95th percentile per-packet one-way delay: 76.497 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 110.12 Mbit/s
95th percentile per-packet one-way delay: 77.585 ms
Loss rate: 0.01%
```

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



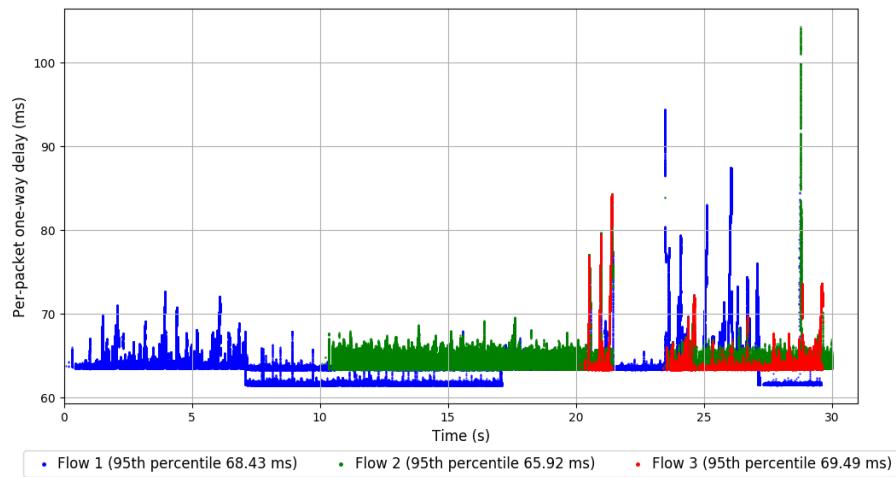
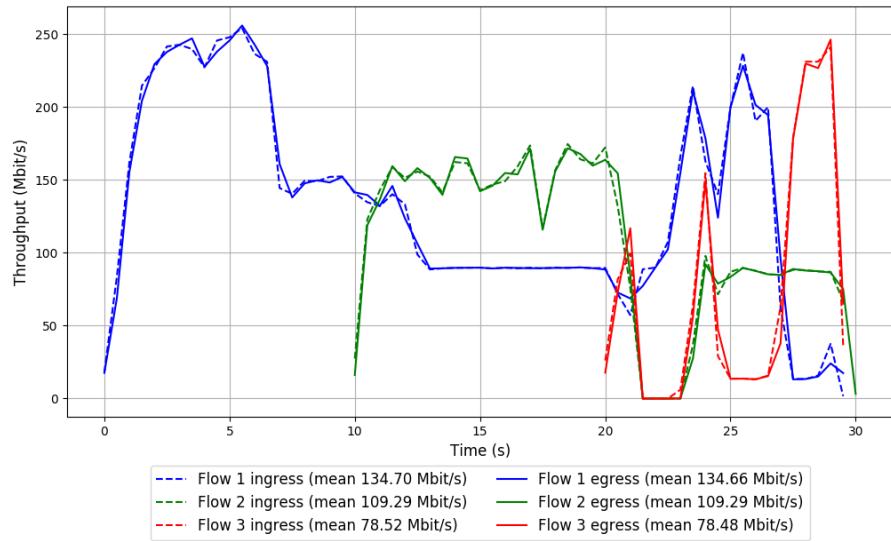
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-18 22:39:54

End at: 2018-04-18 22:40:24

```
# Below is generated by plot.py at 2018-04-19 03:28:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 230.44 Mbit/s
95th percentile per-packet one-way delay: 67.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.66 Mbit/s
95th percentile per-packet one-way delay: 68.433 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 109.29 Mbit/s
95th percentile per-packet one-way delay: 65.922 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 78.48 Mbit/s
95th percentile per-packet one-way delay: 69.489 ms
Loss rate: 0.00%
```

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



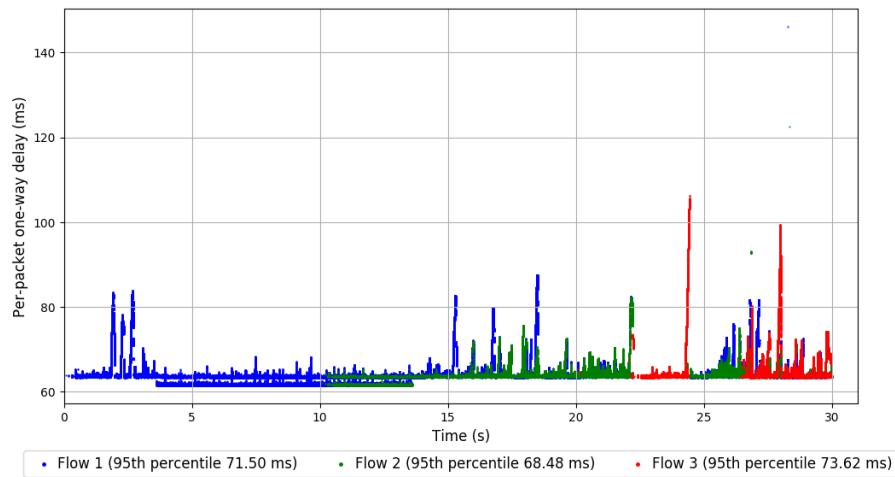
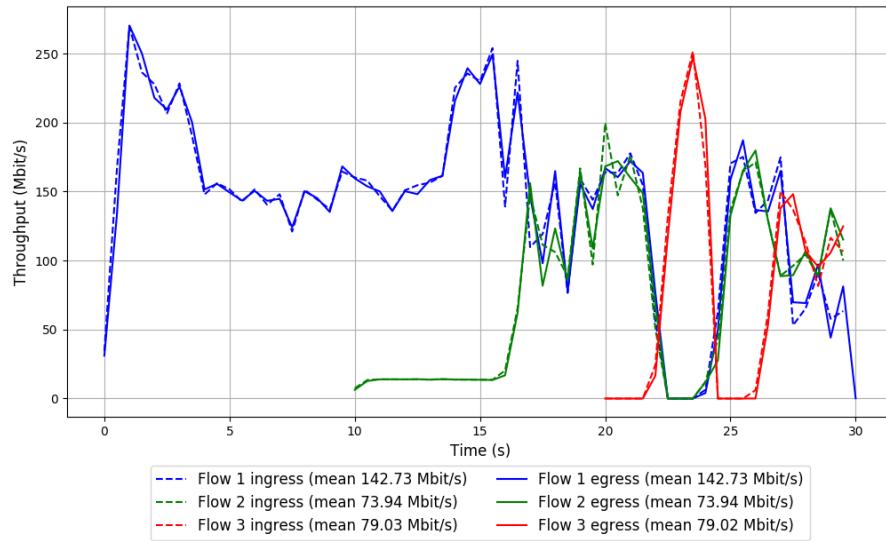
Run 3: Statistics of TaoVA-100x

Start at: 2018-04-18 22:55:45

End at: 2018-04-18 22:56:15

```
# Below is generated by plot.py at 2018-04-19 03:28:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.04 Mbit/s
95th percentile per-packet one-way delay: 70.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.73 Mbit/s
95th percentile per-packet one-way delay: 71.503 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 73.94 Mbit/s
95th percentile per-packet one-way delay: 68.483 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 73.621 ms
Loss rate: 0.00%
```

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



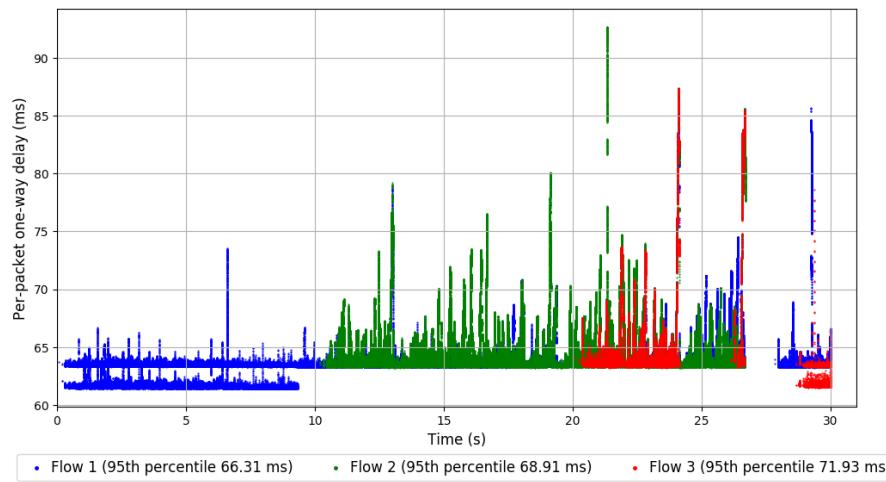
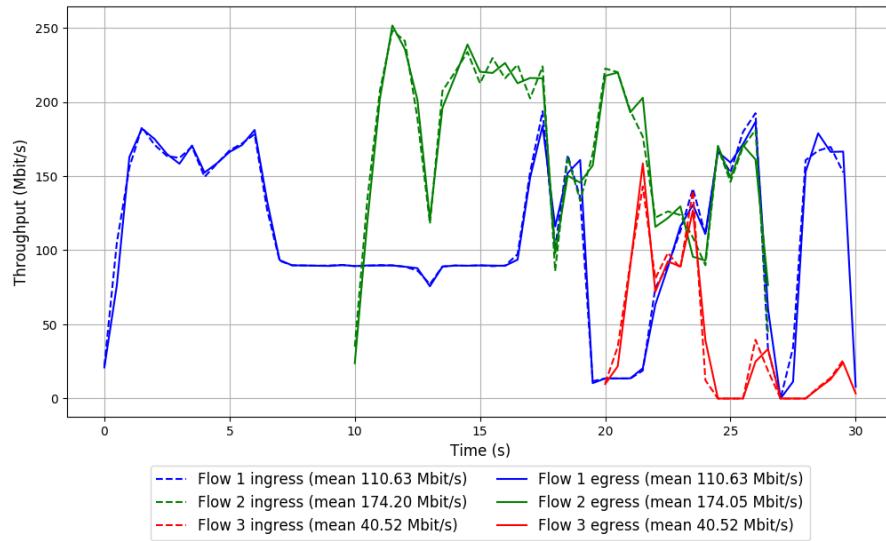
Run 4: Statistics of TaoVA-100x

Start at: 2018-04-18 23:11:21

End at: 2018-04-18 23:11:51

```
# Below is generated by plot.py at 2018-04-19 03:28:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 220.62 Mbit/s
95th percentile per-packet one-way delay: 67.906 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 110.63 Mbit/s
95th percentile per-packet one-way delay: 66.308 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 174.05 Mbit/s
95th percentile per-packet one-way delay: 68.905 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.52 Mbit/s
95th percentile per-packet one-way delay: 71.932 ms
Loss rate: 0.00%
```

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



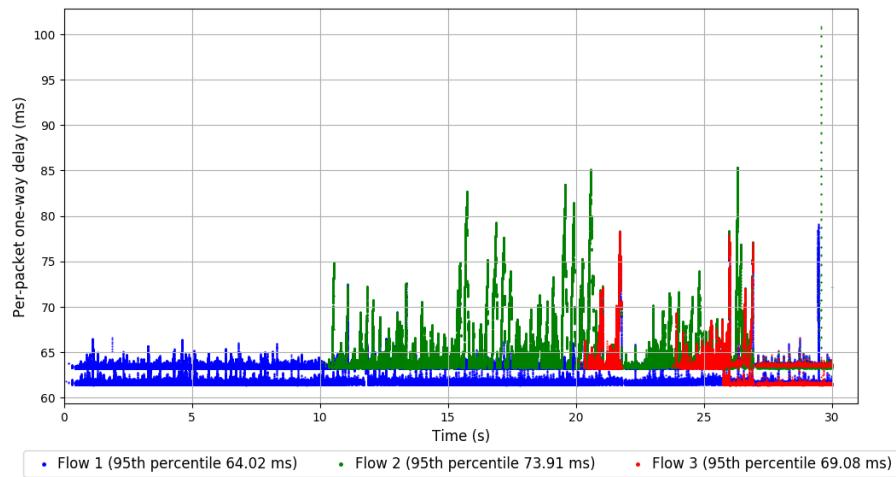
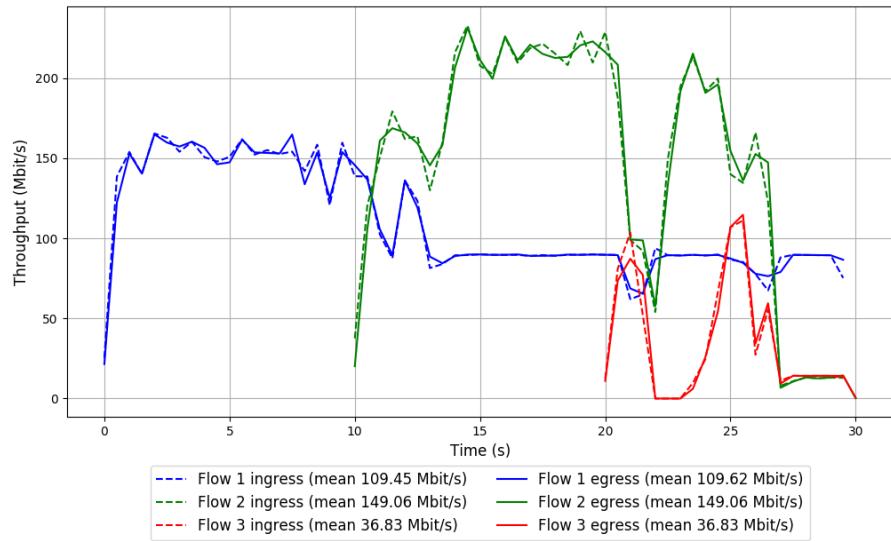
Run 5: Statistics of TaoVA-100x

Start at: 2018-04-18 23:26:55

End at: 2018-04-18 23:27:25

```
# Below is generated by plot.py at 2018-04-19 03:28:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 220.94 Mbit/s
95th percentile per-packet one-way delay: 70.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.62 Mbit/s
95th percentile per-packet one-way delay: 64.022 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 149.06 Mbit/s
95th percentile per-packet one-way delay: 73.911 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 69.085 ms
Loss rate: 0.00%
```

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



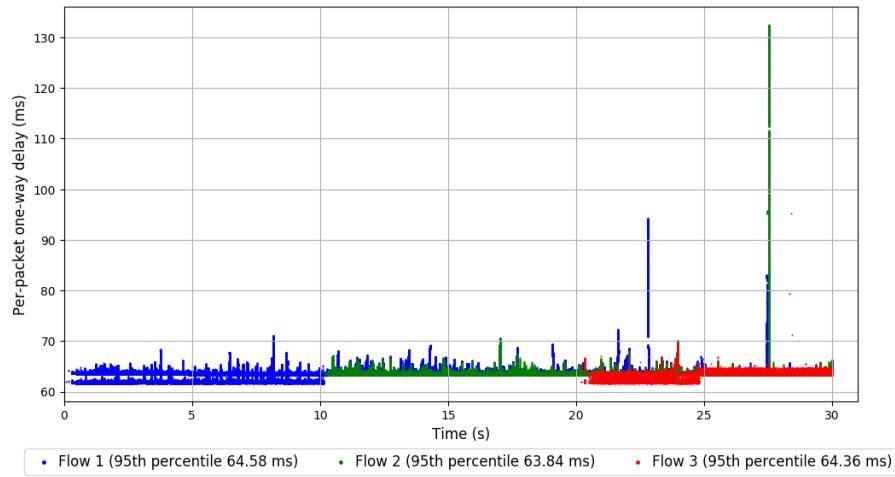
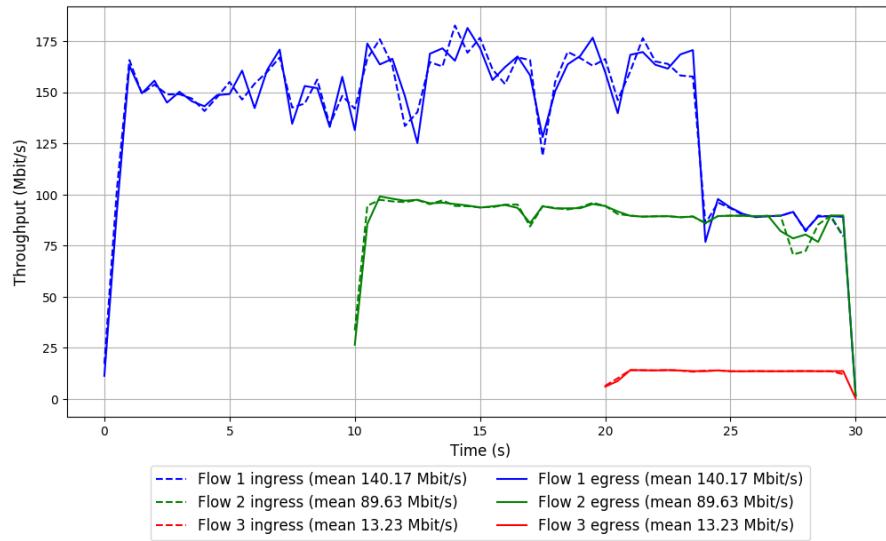
Run 6: Statistics of TaoVA-100x

Start at: 2018-04-18 23:42:36

End at: 2018-04-18 23:43:06

```
# Below is generated by plot.py at 2018-04-19 03:28:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.23 Mbit/s
95th percentile per-packet one-way delay: 64.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 140.17 Mbit/s
95th percentile per-packet one-way delay: 64.581 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 63.837 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 64.357 ms
Loss rate: 0.00%
```

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



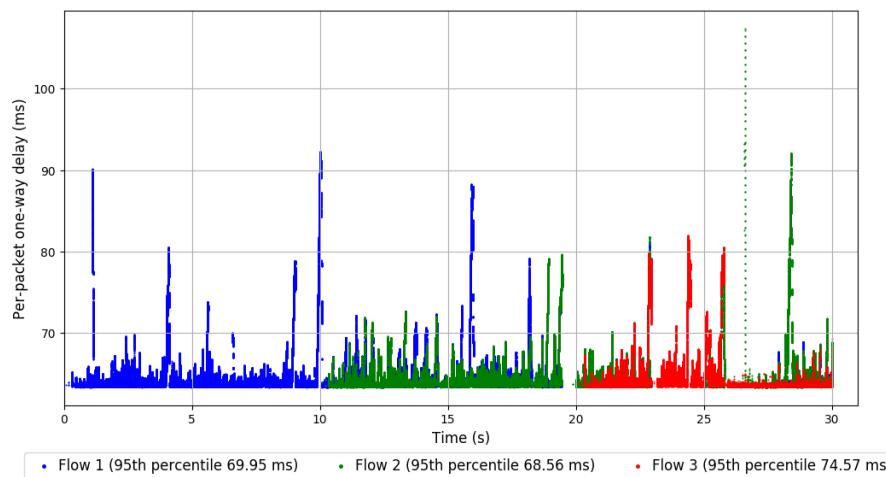
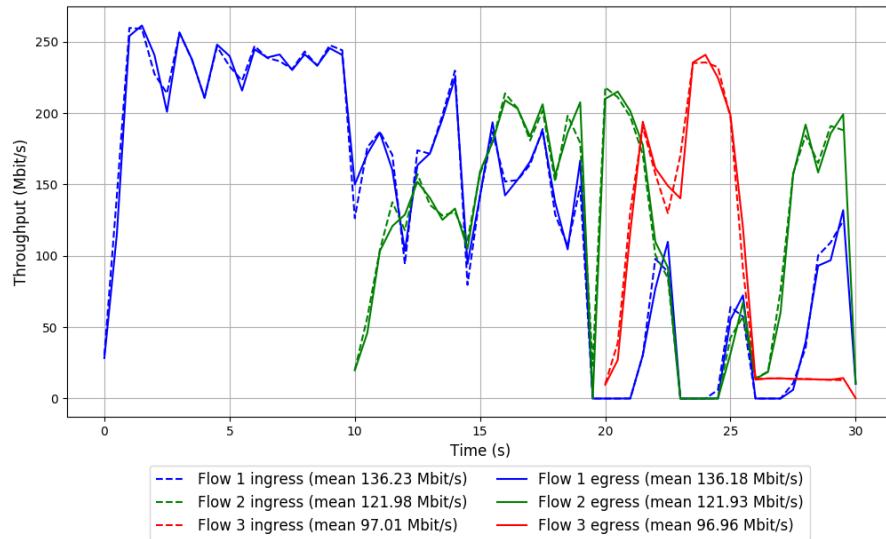
Run 7: Statistics of TaoVA-100x

Start at: 2018-04-18 23:58:16

End at: 2018-04-18 23:58:46

```
# Below is generated by plot.py at 2018-04-19 03:32:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.51 Mbit/s
95th percentile per-packet one-way delay: 69.827 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 136.18 Mbit/s
95th percentile per-packet one-way delay: 69.948 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 121.93 Mbit/s
95th percentile per-packet one-way delay: 68.559 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 74.571 ms
Loss rate: 0.00%
```

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



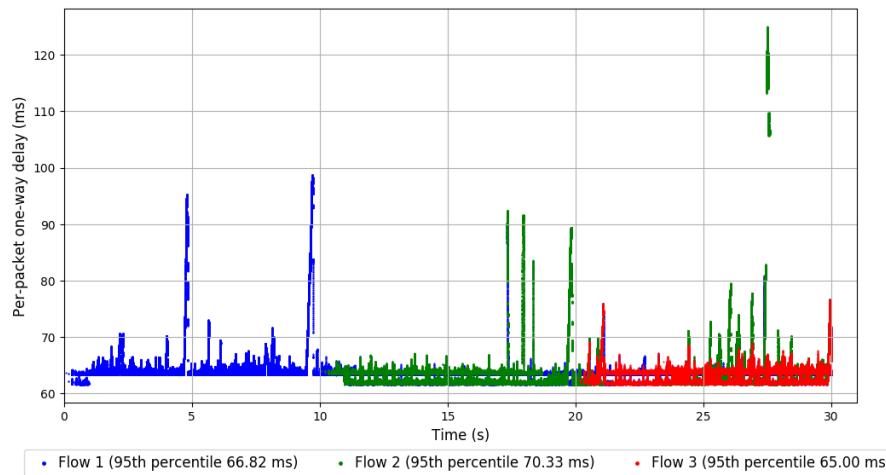
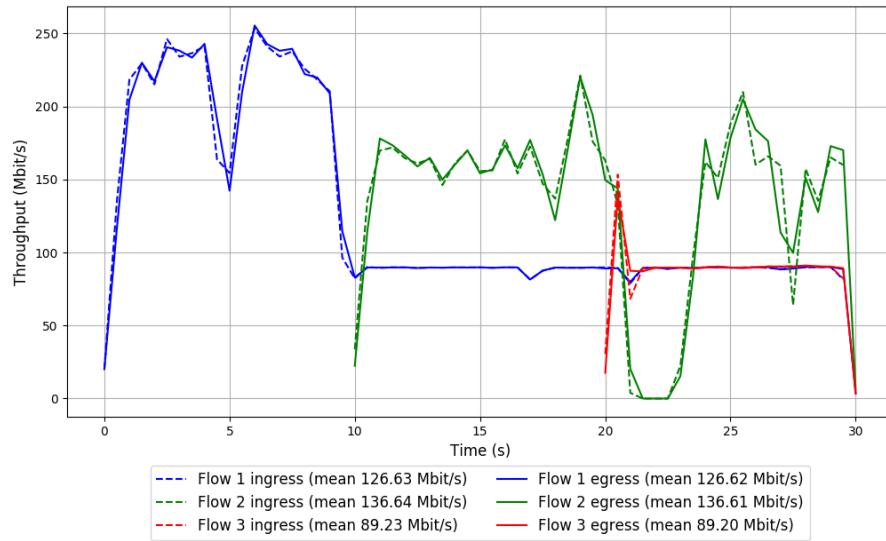
Run 8: Statistics of TaoVA-100x

Start at: 2018-04-19 00:14:00

End at: 2018-04-19 00:14:30

```
# Below is generated by plot.py at 2018-04-19 03:32:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.13 Mbit/s
95th percentile per-packet one-way delay: 67.452 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 126.62 Mbit/s
95th percentile per-packet one-way delay: 66.816 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 136.61 Mbit/s
95th percentile per-packet one-way delay: 70.332 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 64.996 ms
Loss rate: 0.03%
```

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



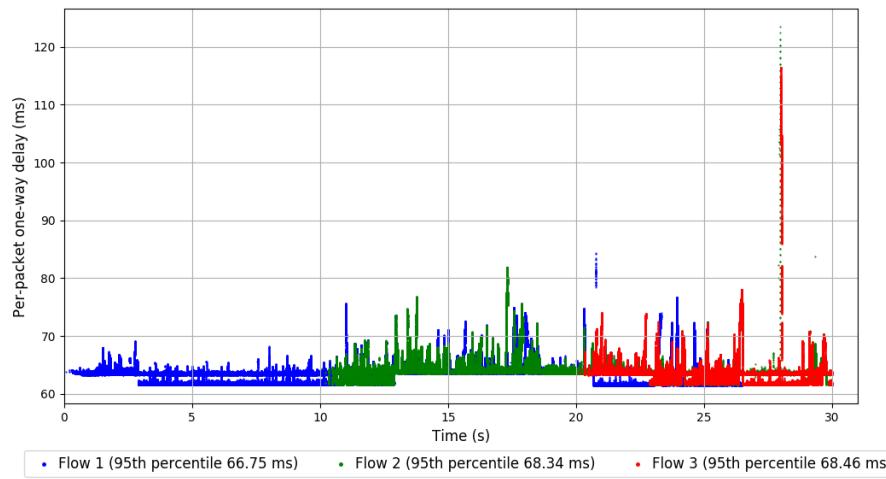
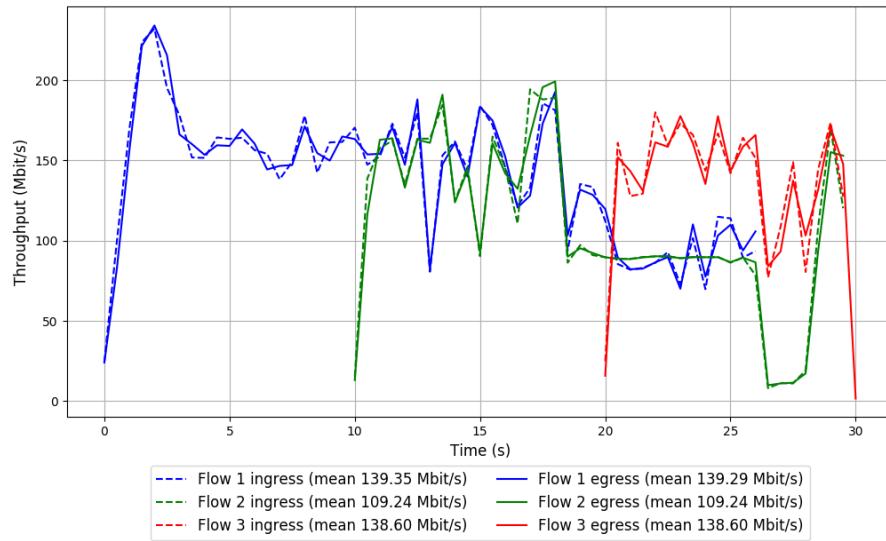
Run 9: Statistics of TaoVA-100x

Start at: 2018-04-19 00:29:28

End at: 2018-04-19 00:29:58

```
# Below is generated by plot.py at 2018-04-19 03:36:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.47 Mbit/s
95th percentile per-packet one-way delay: 67.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 139.29 Mbit/s
95th percentile per-packet one-way delay: 66.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 109.24 Mbit/s
95th percentile per-packet one-way delay: 68.339 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 138.60 Mbit/s
95th percentile per-packet one-way delay: 68.456 ms
Loss rate: 0.00%
```

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



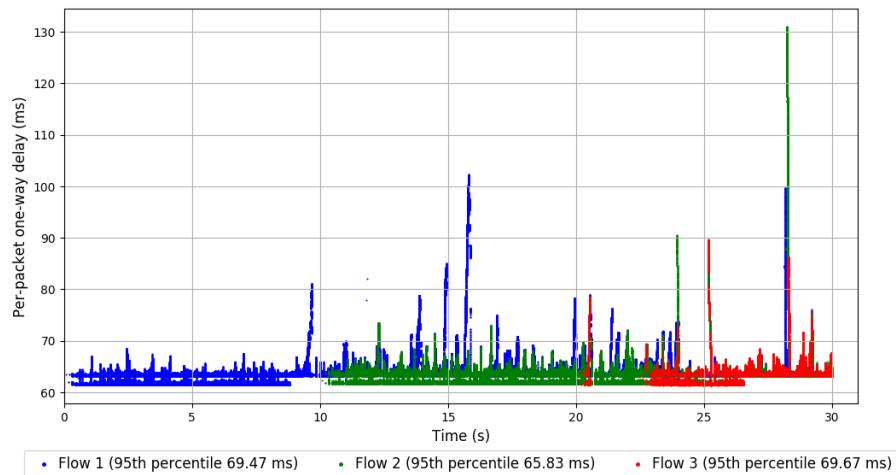
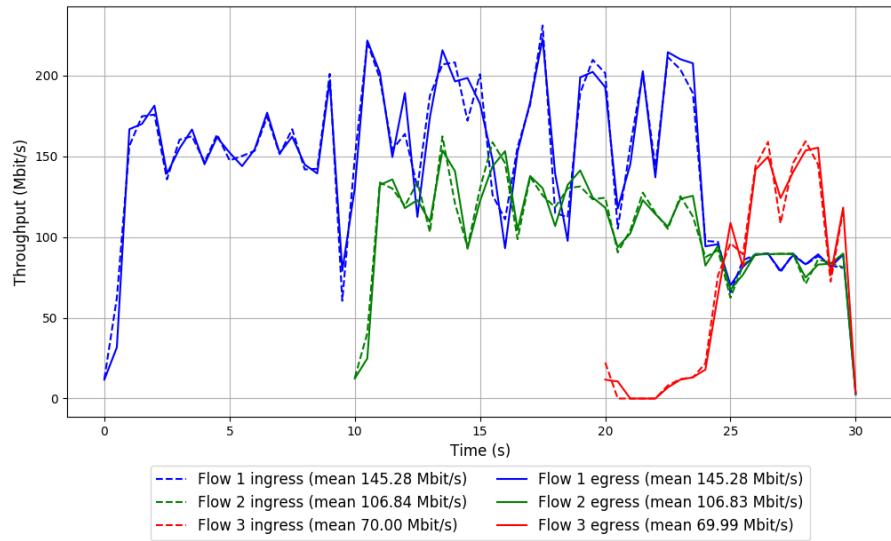
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-19 00:44:52

End at: 2018-04-19 00:45:22

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 239.57 Mbit/s
95th percentile per-packet one-way delay: 68.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.28 Mbit/s
95th percentile per-packet one-way delay: 69.468 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 106.83 Mbit/s
95th percentile per-packet one-way delay: 65.827 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.99 Mbit/s
95th percentile per-packet one-way delay: 69.667 ms
Loss rate: 0.00%
```

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

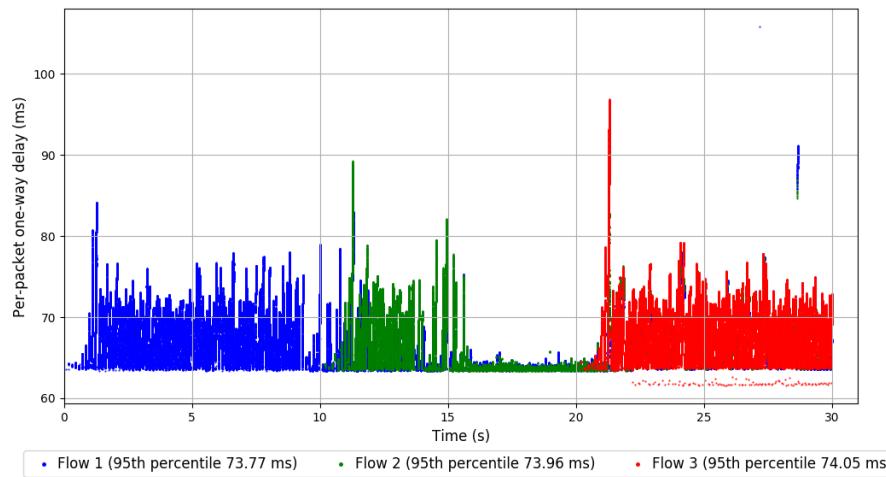
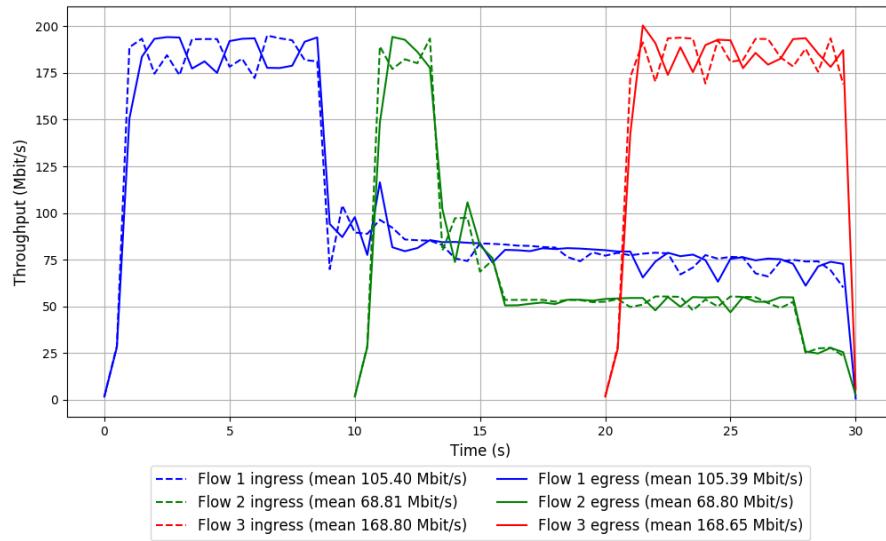


```
Run 1: Statistics of TCP Vegas

Start at: 2018-04-18 22:22:49
End at: 2018-04-18 22:23:19

# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 207.02 Mbit/s
95th percentile per-packet one-way delay: 73.893 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.39 Mbit/s
95th percentile per-packet one-way delay: 73.773 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.80 Mbit/s
95th percentile per-packet one-way delay: 73.963 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 168.65 Mbit/s
95th percentile per-packet one-way delay: 74.047 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link



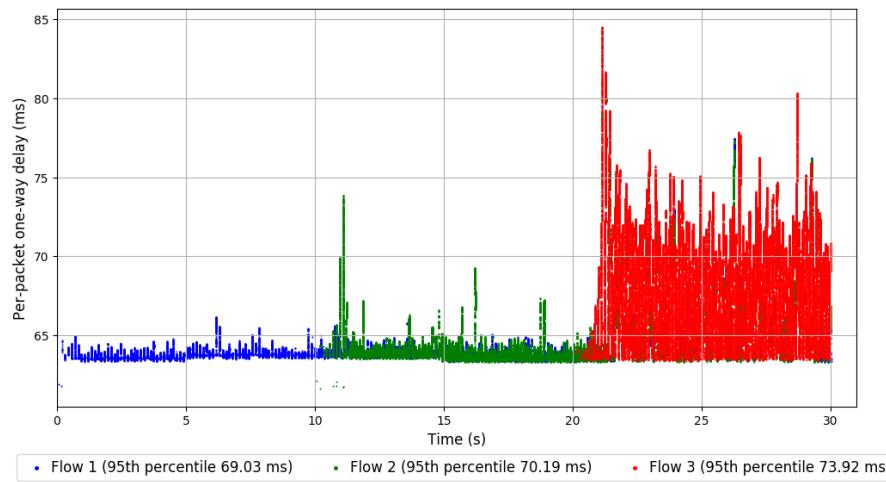
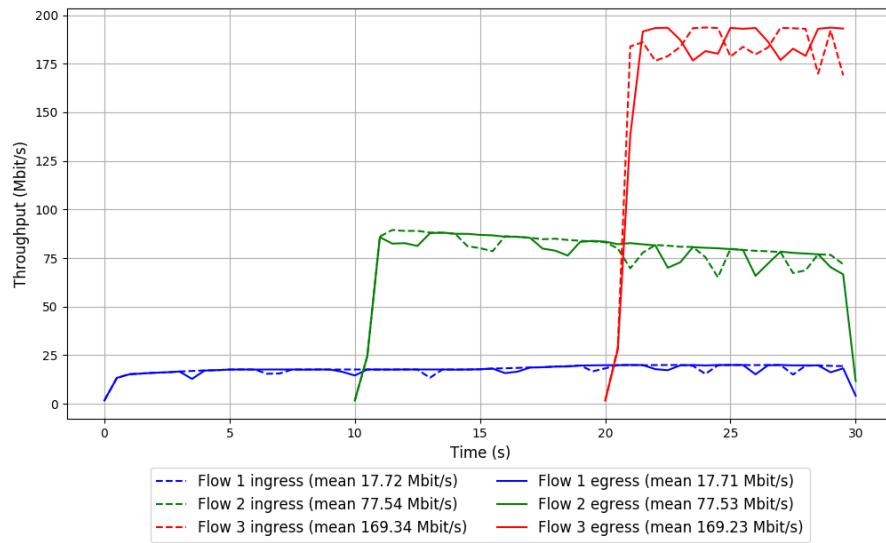
Run 2: Statistics of TCP Vegas

Start at: 2018-04-18 22:38:26

End at: 2018-04-18 22:38:56

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.35 Mbit/s
95th percentile per-packet one-way delay: 72.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.71 Mbit/s
95th percentile per-packet one-way delay: 69.032 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 77.53 Mbit/s
95th percentile per-packet one-way delay: 70.193 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 169.23 Mbit/s
95th percentile per-packet one-way delay: 73.922 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link



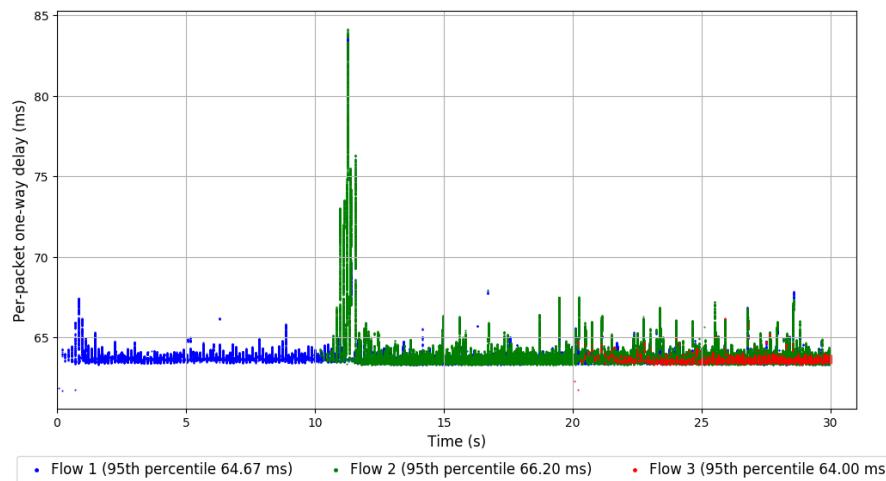
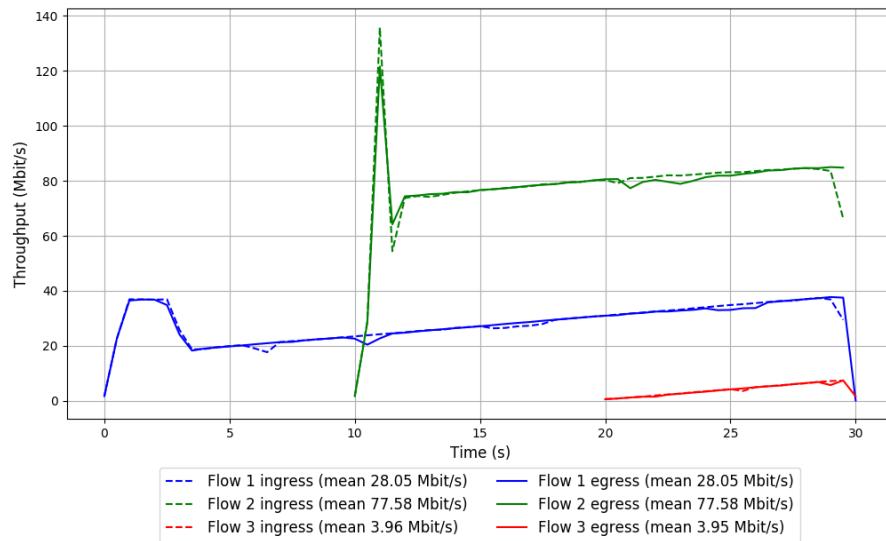
Run 3: Statistics of TCP Vegas

Start at: 2018-04-18 22:54:19

End at: 2018-04-18 22:54:49

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.92 Mbit/s
95th percentile per-packet one-way delay: 65.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 64.671 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 66.199 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 63.999 ms
Loss rate: 0.15%
```

Run 3: Report of TCP Vegas — Data Link



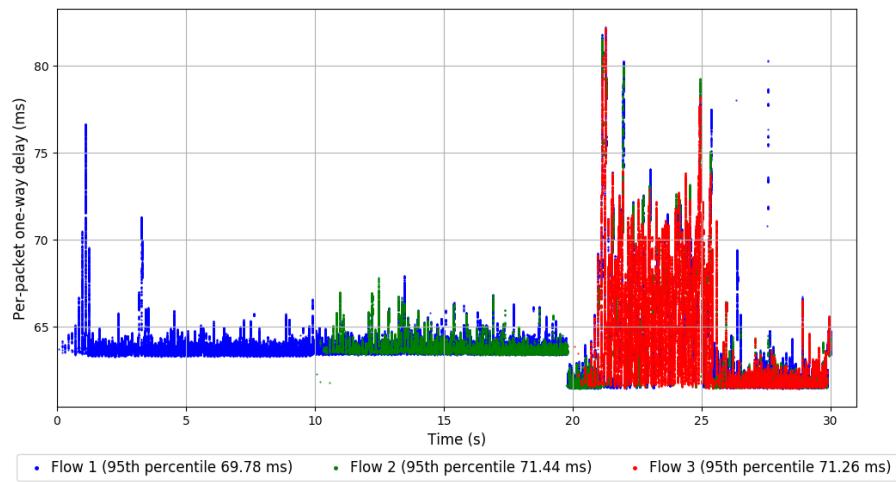
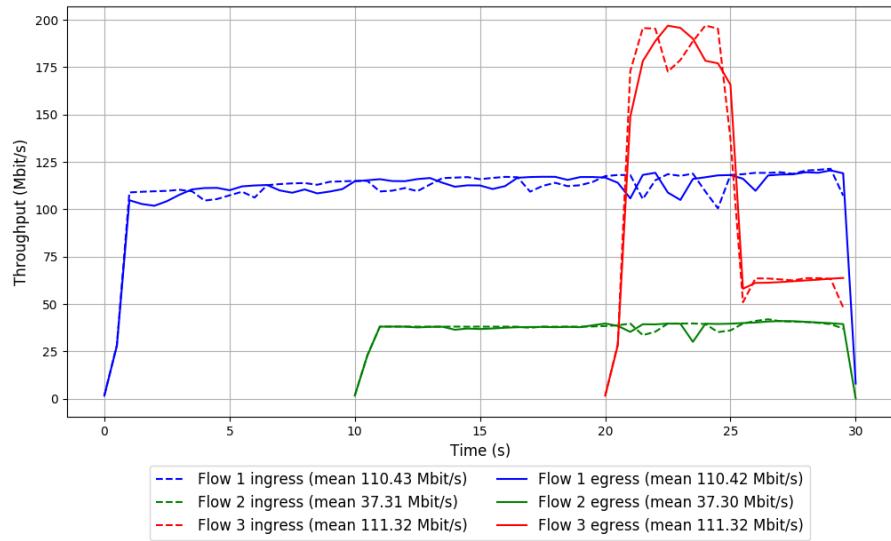
Run 4: Statistics of TCP Vegas

Start at: 2018-04-18 23:09:51

End at: 2018-04-18 23:10:21

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.09 Mbit/s
95th percentile per-packet one-way delay: 70.647 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 110.42 Mbit/s
95th percentile per-packet one-way delay: 69.785 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 71.440 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 111.32 Mbit/s
95th percentile per-packet one-way delay: 71.261 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link



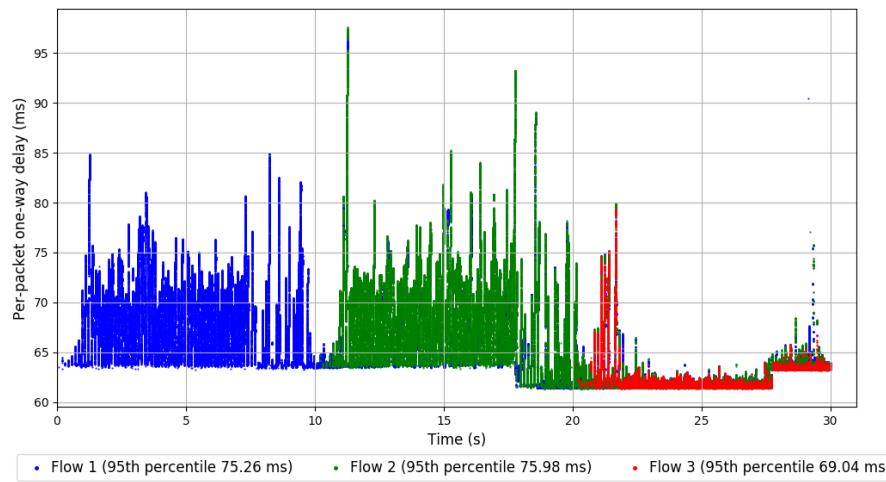
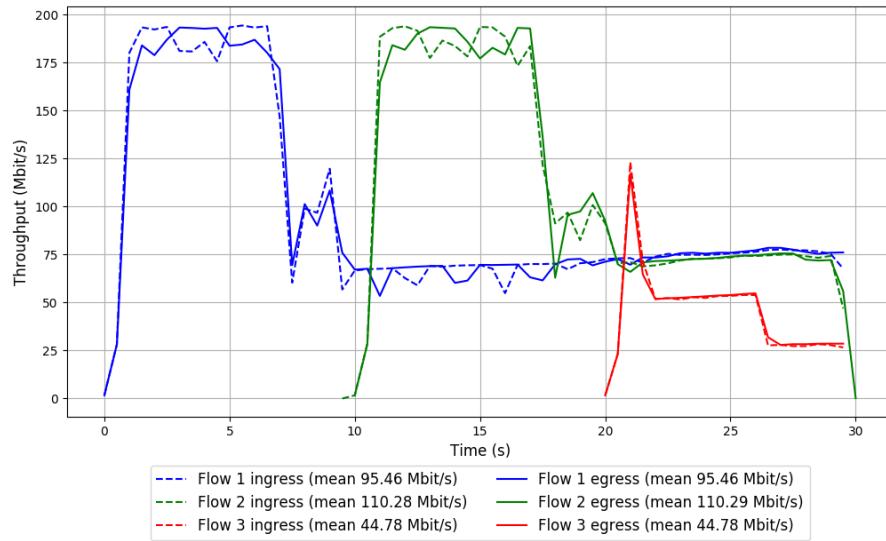
Run 5: Statistics of TCP Vegas

Start at: 2018-04-18 23:25:23

End at: 2018-04-18 23:25:53

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 183.75 Mbit/s
95th percentile per-packet one-way delay: 75.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 75.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 110.29 Mbit/s
95th percentile per-packet one-way delay: 75.978 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.78 Mbit/s
95th percentile per-packet one-way delay: 69.037 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link



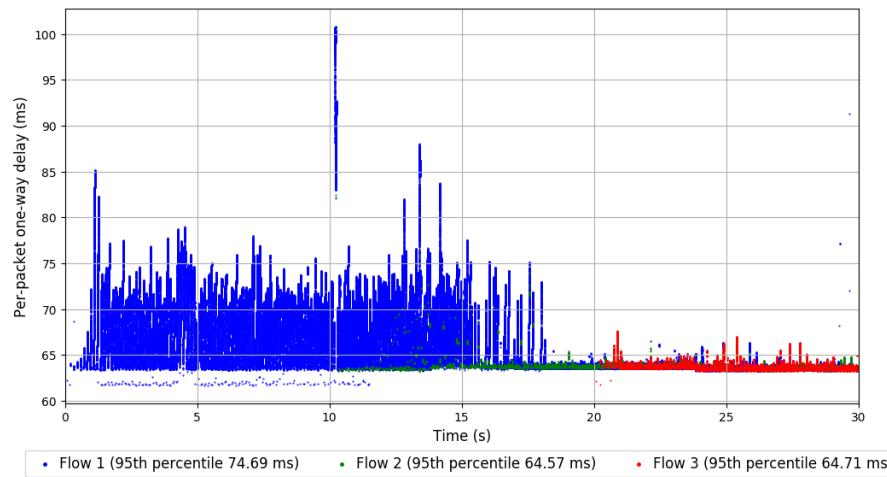
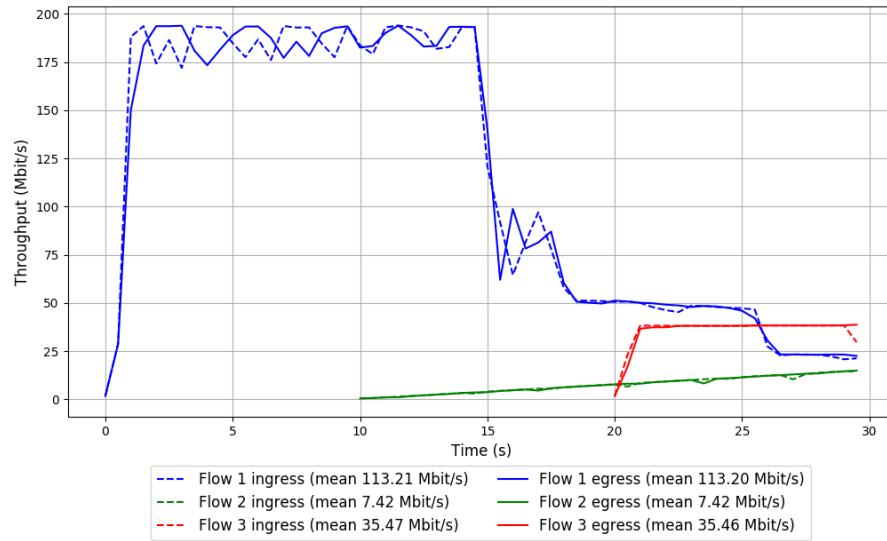
Run 6: Statistics of TCP Vegas

Start at: 2018-04-18 23:41:07

End at: 2018-04-18 23:41:37

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 129.83 Mbit/s
95th percentile per-packet one-way delay: 74.280 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 113.20 Mbit/s
95th percentile per-packet one-way delay: 74.685 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 64.566 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 64.714 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Vegas — Data Link



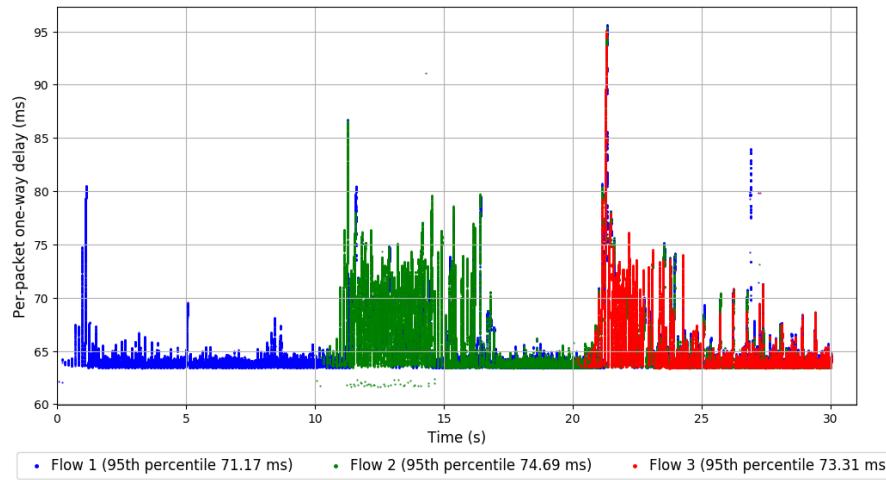
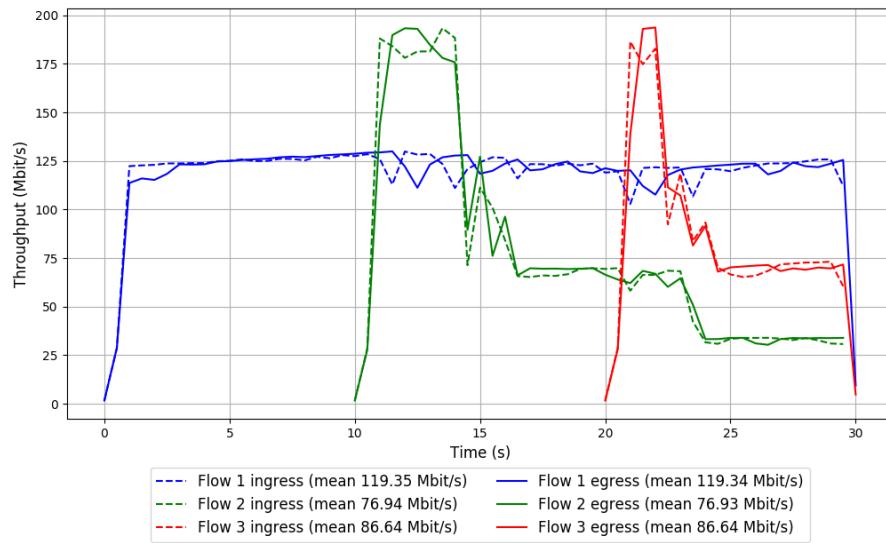
Run 7: Statistics of TCP Vegas

Start at: 2018-04-18 23:56:44

End at: 2018-04-18 23:57:14

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.22 Mbit/s
95th percentile per-packet one-way delay: 73.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 119.34 Mbit/s
95th percentile per-packet one-way delay: 71.166 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.93 Mbit/s
95th percentile per-packet one-way delay: 74.686 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 73.306 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Vegas — Data Link



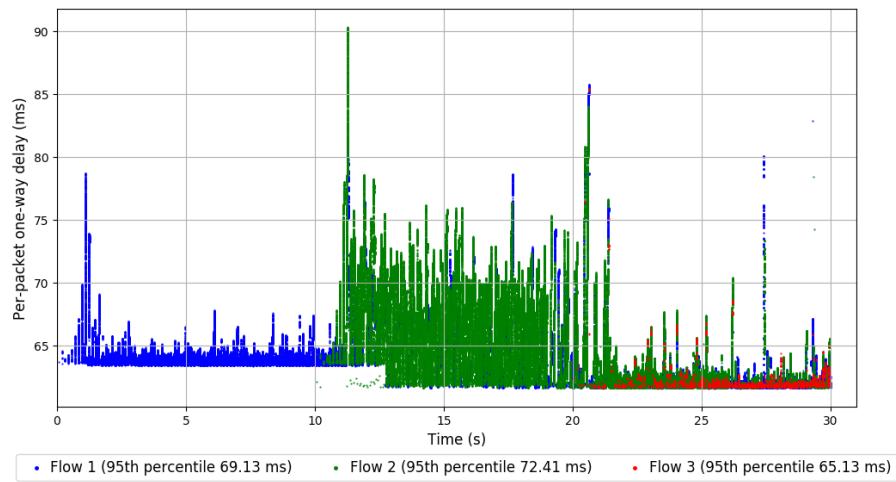
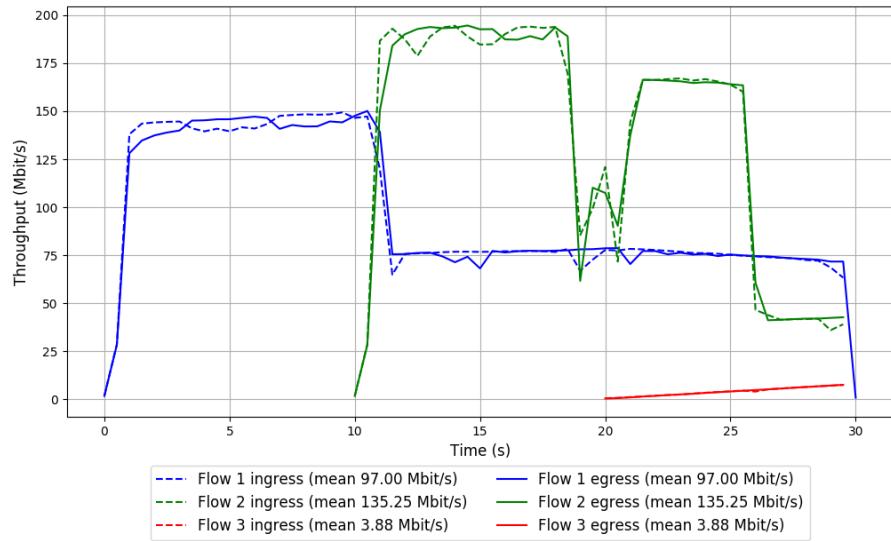
Run 8: Statistics of TCP Vegas

Start at: 2018-04-19 00:12:28

End at: 2018-04-19 00:12:58

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 188.28 Mbit/s
95th percentile per-packet one-way delay: 71.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.00 Mbit/s
95th percentile per-packet one-way delay: 69.133 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 135.25 Mbit/s
95th percentile per-packet one-way delay: 72.408 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 65.133 ms
Loss rate: 0.22%
```

Run 8: Report of TCP Vegas — Data Link



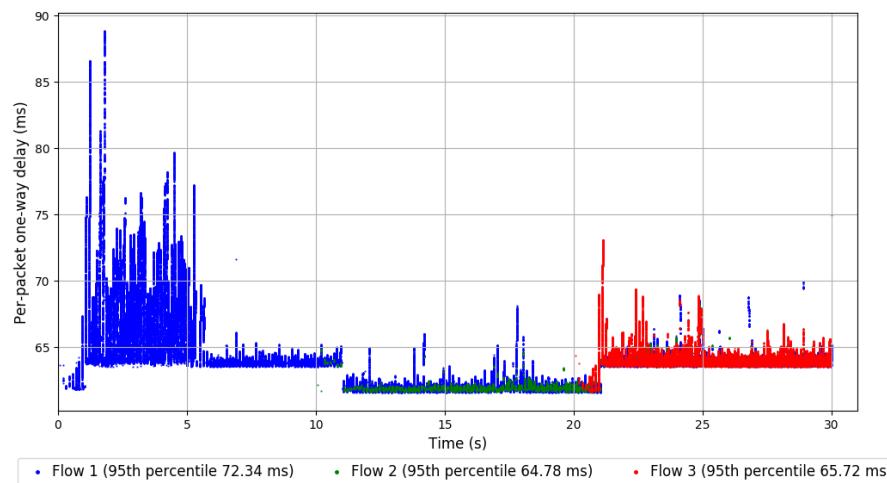
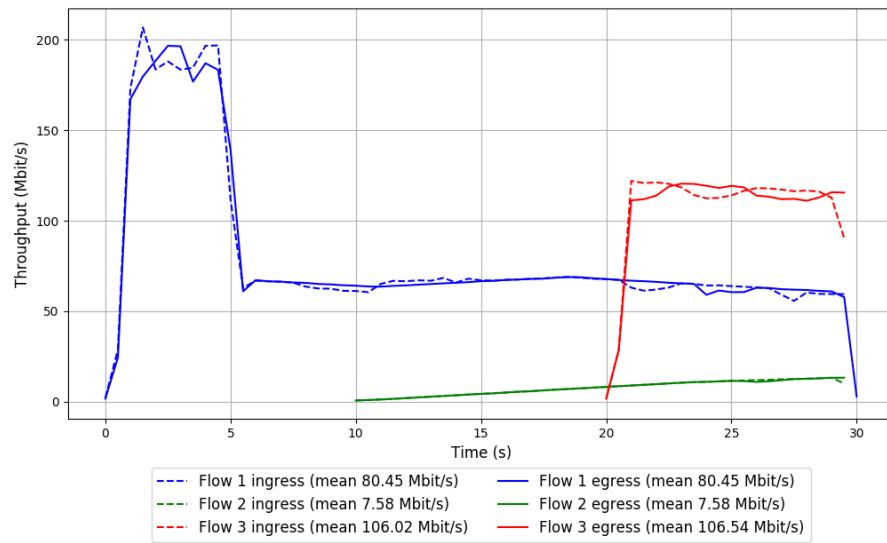
Run 9: Statistics of TCP Vegas

Start at: 2018-04-19 00:28:00

End at: 2018-04-19 00:28:30

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.69 Mbit/s
95th percentile per-packet one-way delay: 71.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.45 Mbit/s
95th percentile per-packet one-way delay: 72.344 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 64.779 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 106.54 Mbit/s
95th percentile per-packet one-way delay: 65.723 ms
Loss rate: 0.00%
```

Run 9: Report of TCP Vegas — Data Link



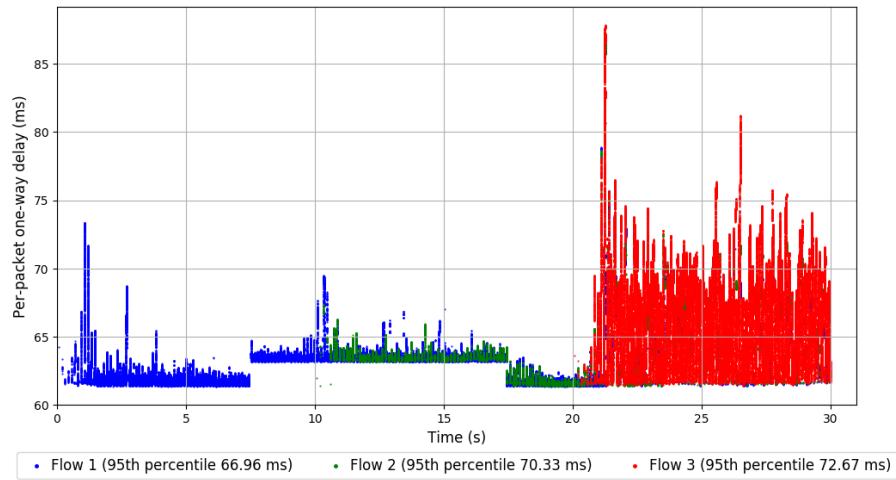
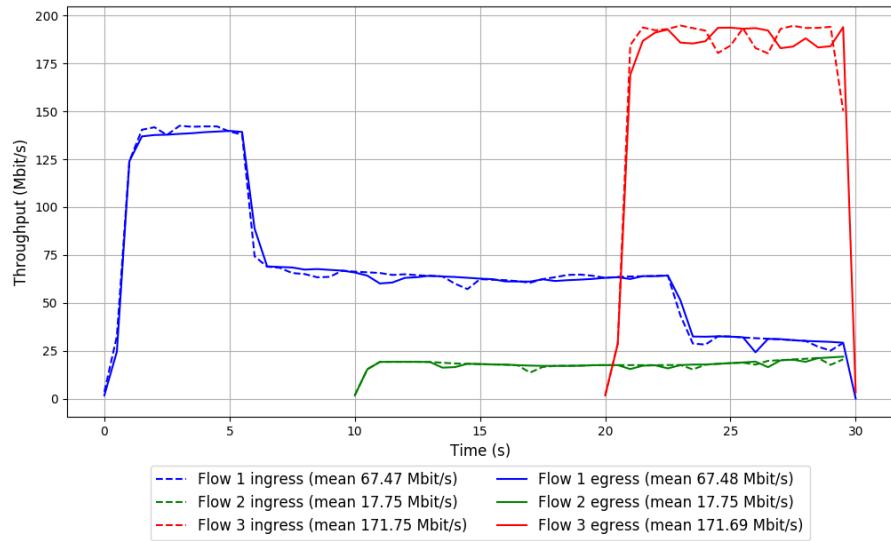
Run 10: Statistics of TCP Vegas

Start at: 2018-04-19 00:43:23

End at: 2018-04-19 00:43:53

```
# Below is generated by plot.py at 2018-04-19 03:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.21 Mbit/s
95th percentile per-packet one-way delay: 71.015 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 67.48 Mbit/s
95th percentile per-packet one-way delay: 66.962 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.75 Mbit/s
95th percentile per-packet one-way delay: 70.330 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 171.69 Mbit/s
95th percentile per-packet one-way delay: 72.668 ms
Loss rate: 0.05%
```

Run 10: Report of TCP Vegas — Data Link



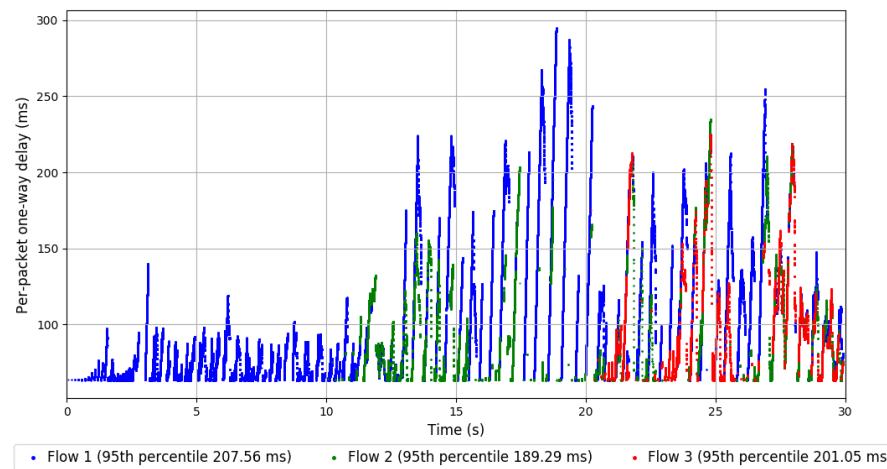
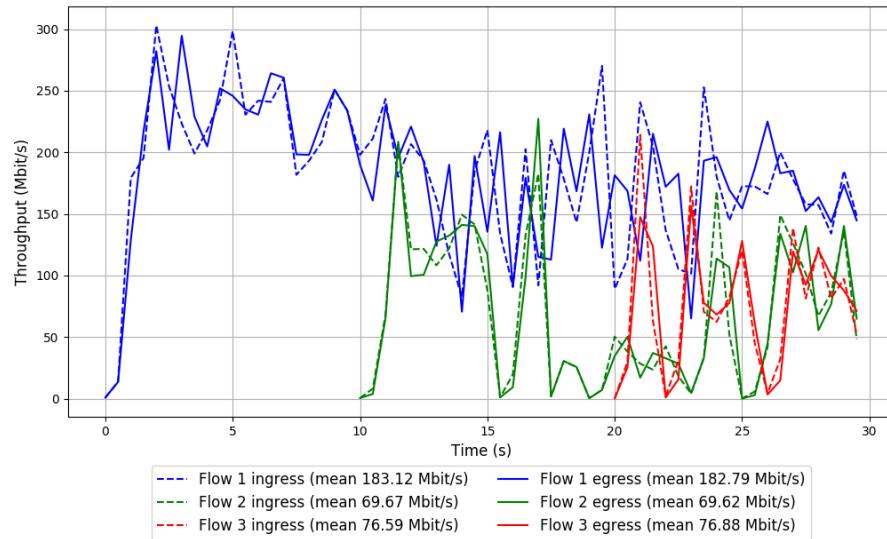
Run 1: Statistics of Verus

Start at: 2018-04-18 22:26:49

End at: 2018-04-18 22:27:19

```
# Below is generated by plot.py at 2018-04-19 03:38:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 254.04 Mbit/s
95th percentile per-packet one-way delay: 202.659 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 182.79 Mbit/s
95th percentile per-packet one-way delay: 207.560 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 69.62 Mbit/s
95th percentile per-packet one-way delay: 189.287 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 201.050 ms
Loss rate: 0.75%
```

Run 1: Report of Verus — Data Link



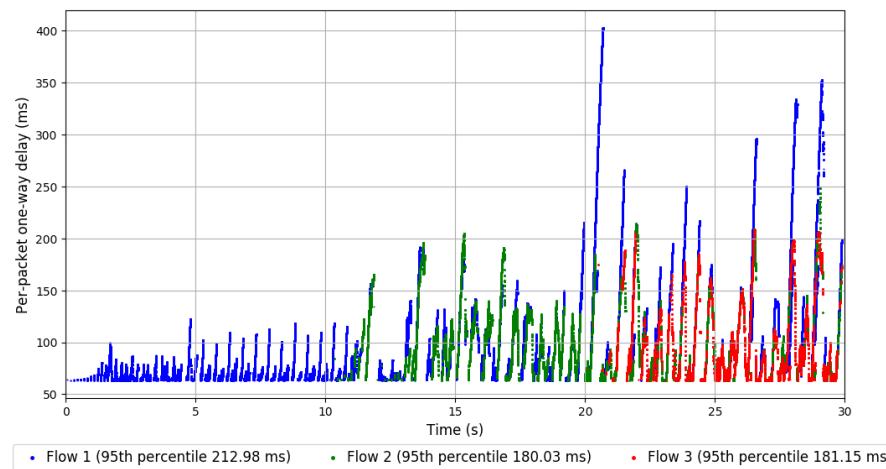
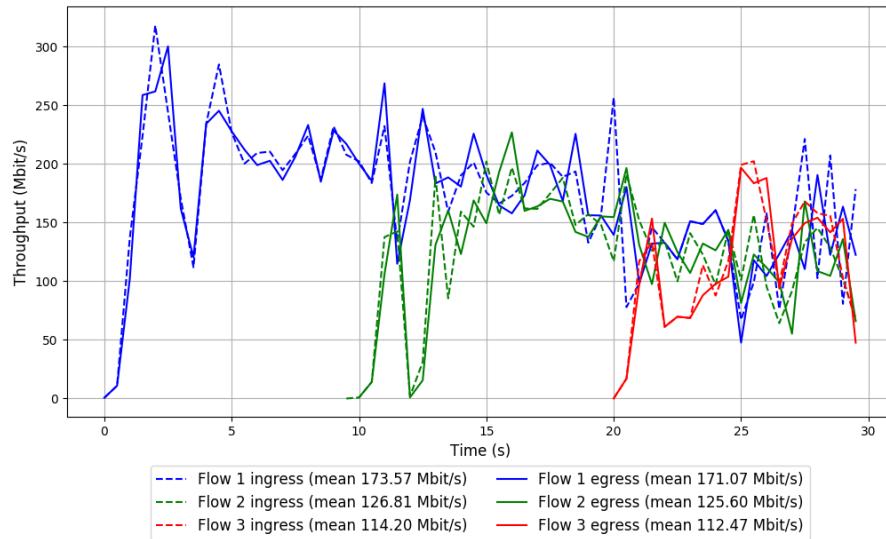
Run 2: Statistics of Verus

Start at: 2018-04-18 22:42:27

End at: 2018-04-18 22:42:57

```
# Below is generated by plot.py at 2018-04-19 03:38:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.45 Mbit/s
95th percentile per-packet one-way delay: 188.867 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 171.07 Mbit/s
95th percentile per-packet one-way delay: 212.979 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 125.60 Mbit/s
95th percentile per-packet one-way delay: 180.034 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 112.47 Mbit/s
95th percentile per-packet one-way delay: 181.148 ms
Loss rate: 1.61%
```

Run 2: Report of Verus — Data Link



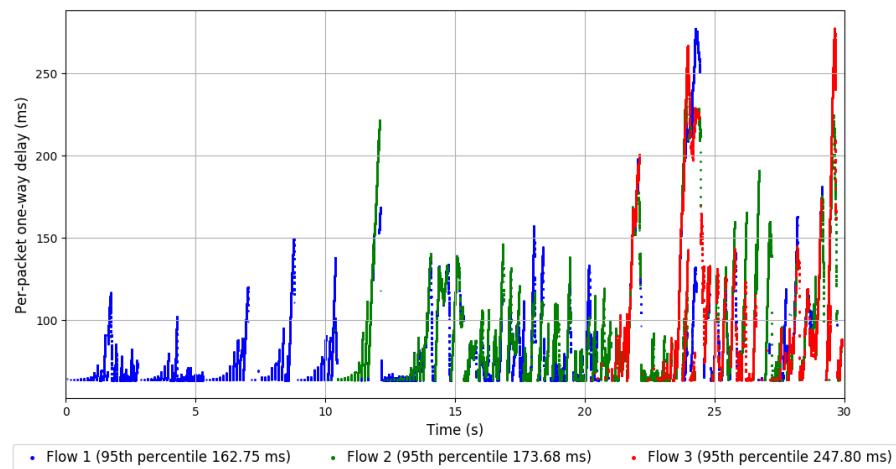
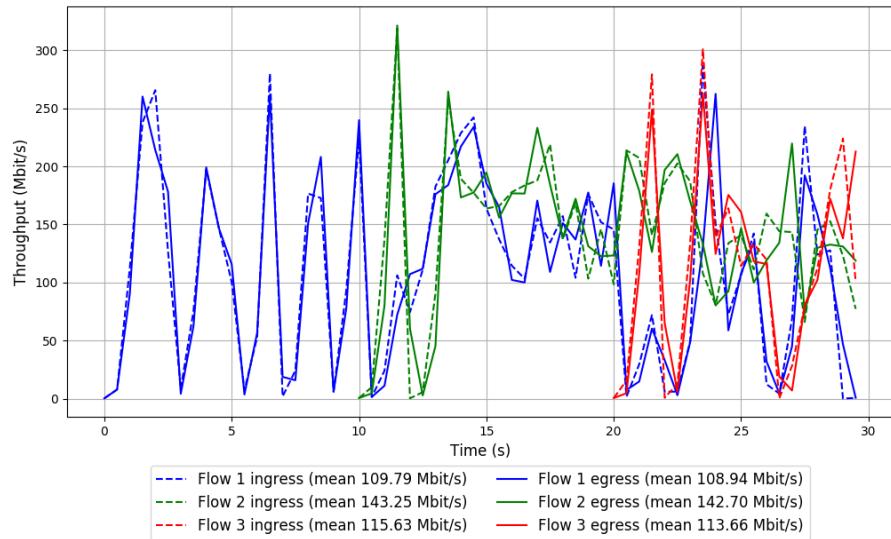
Run 3: Statistics of Verus

Start at: 2018-04-18 22:58:15

End at: 2018-04-18 22:58:45

```
# Below is generated by plot.py at 2018-04-19 03:39:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 240.66 Mbit/s
95th percentile per-packet one-way delay: 196.554 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 108.94 Mbit/s
95th percentile per-packet one-way delay: 162.748 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 142.70 Mbit/s
95th percentile per-packet one-way delay: 173.683 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 113.66 Mbit/s
95th percentile per-packet one-way delay: 247.800 ms
Loss rate: 1.97%
```

Run 3: Report of Verus — Data Link



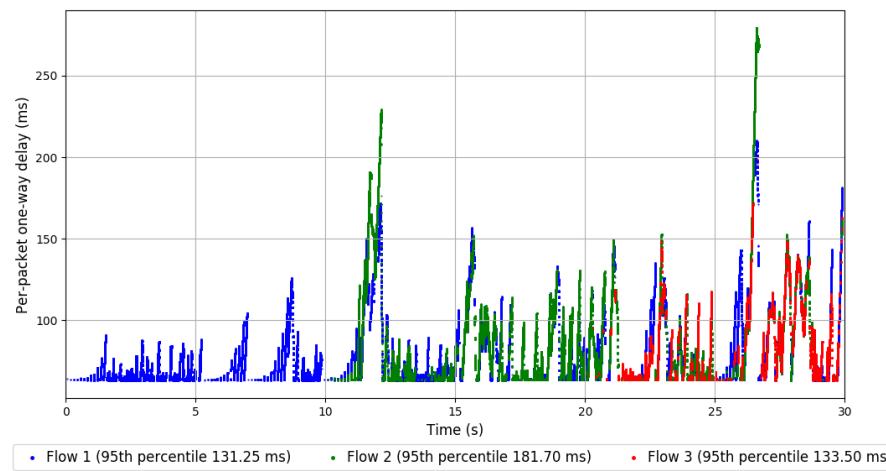
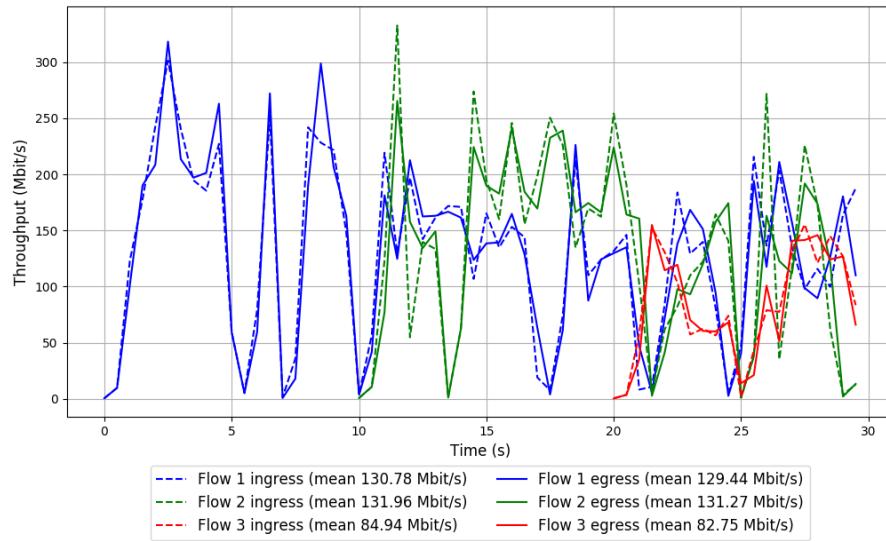
Run 4: Statistics of Verus

Start at: 2018-04-18 23:13:54

End at: 2018-04-18 23:14:24

```
# Below is generated by plot.py at 2018-04-19 03:39:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.78 Mbit/s
95th percentile per-packet one-way delay: 143.008 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 129.44 Mbit/s
95th percentile per-packet one-way delay: 131.253 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 131.27 Mbit/s
95th percentile per-packet one-way delay: 181.704 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 82.75 Mbit/s
95th percentile per-packet one-way delay: 133.497 ms
Loss rate: 2.63%
```

Run 4: Report of Verus — Data Link



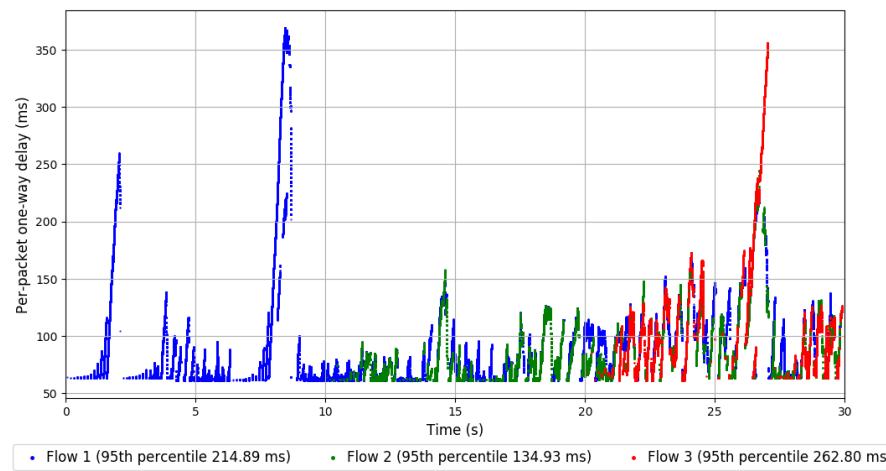
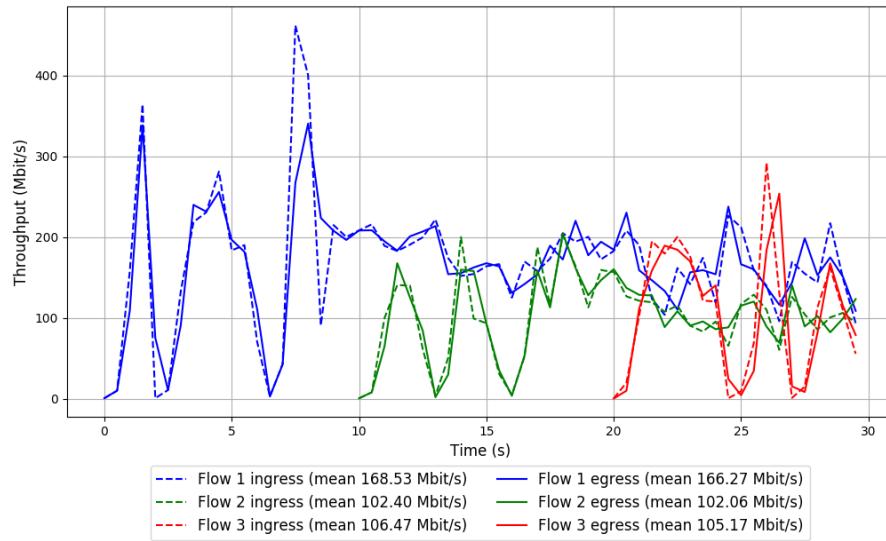
Run 5: Statistics of Verus

Start at: 2018-04-18 23:29:27

End at: 2018-04-18 23:29:57

```
# Below is generated by plot.py at 2018-04-19 03:40:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.54 Mbit/s
95th percentile per-packet one-way delay: 207.413 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 166.27 Mbit/s
95th percentile per-packet one-way delay: 214.887 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 102.06 Mbit/s
95th percentile per-packet one-way delay: 134.930 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 105.17 Mbit/s
95th percentile per-packet one-way delay: 262.798 ms
Loss rate: 0.70%
```

Run 5: Report of Verus — Data Link



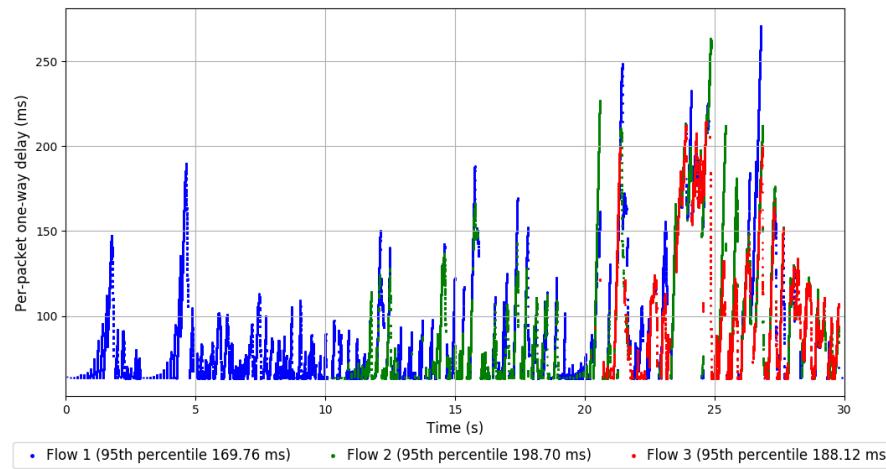
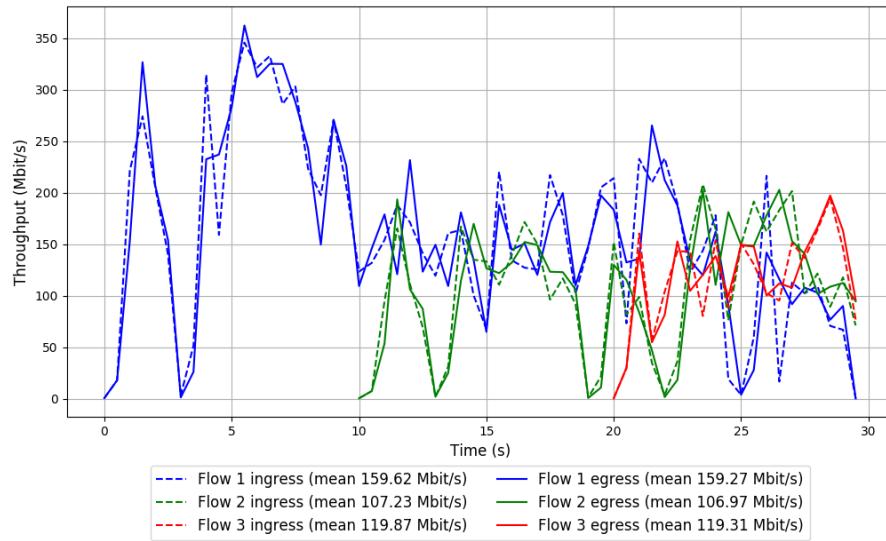
Run 6: Statistics of Verus

Start at: 2018-04-18 23:45:07

End at: 2018-04-18 23:45:37

```
# Below is generated by plot.py at 2018-04-19 03:41:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.52 Mbit/s
95th percentile per-packet one-way delay: 184.409 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 159.27 Mbit/s
95th percentile per-packet one-way delay: 169.760 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 106.97 Mbit/s
95th percentile per-packet one-way delay: 198.703 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 119.31 Mbit/s
95th percentile per-packet one-way delay: 188.125 ms
Loss rate: 0.05%
```

Run 6: Report of Verus — Data Link



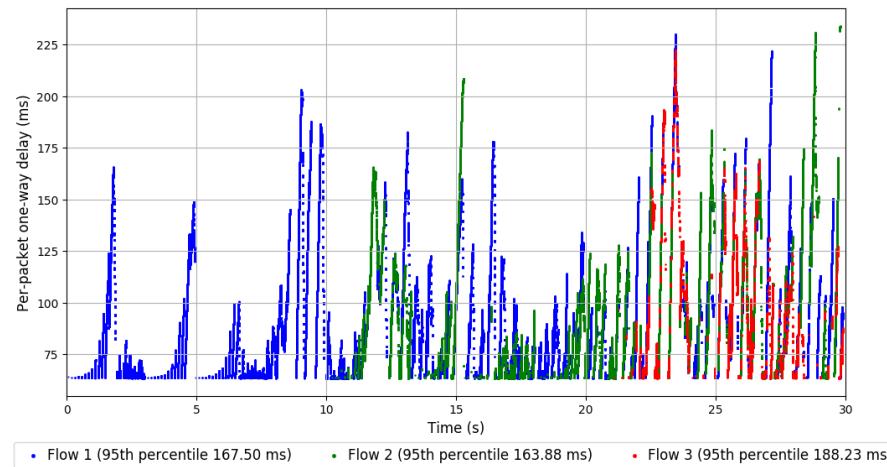
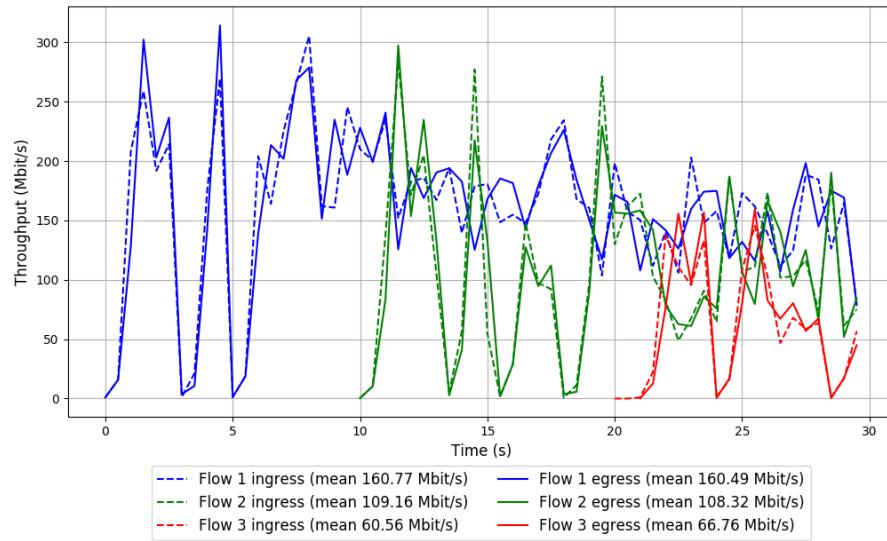
Run 7: Statistics of Verus

Start at: 2018-04-19 00:00:52

End at: 2018-04-19 00:01:22

```
# Below is generated by plot.py at 2018-04-19 03:41:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 251.73 Mbit/s
95th percentile per-packet one-way delay: 167.032 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 160.49 Mbit/s
95th percentile per-packet one-way delay: 167.498 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 108.32 Mbit/s
95th percentile per-packet one-way delay: 163.881 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.76 Mbit/s
95th percentile per-packet one-way delay: 188.229 ms
Loss rate: 1.01%
```

Run 7: Report of Verus — Data Link



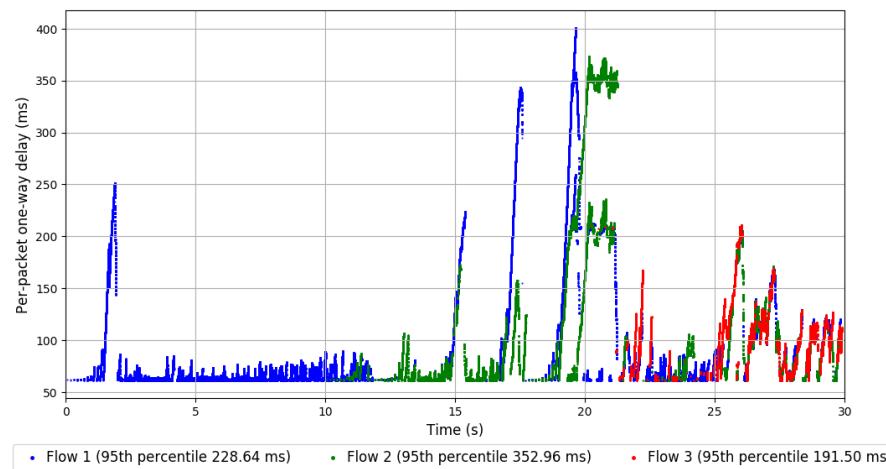
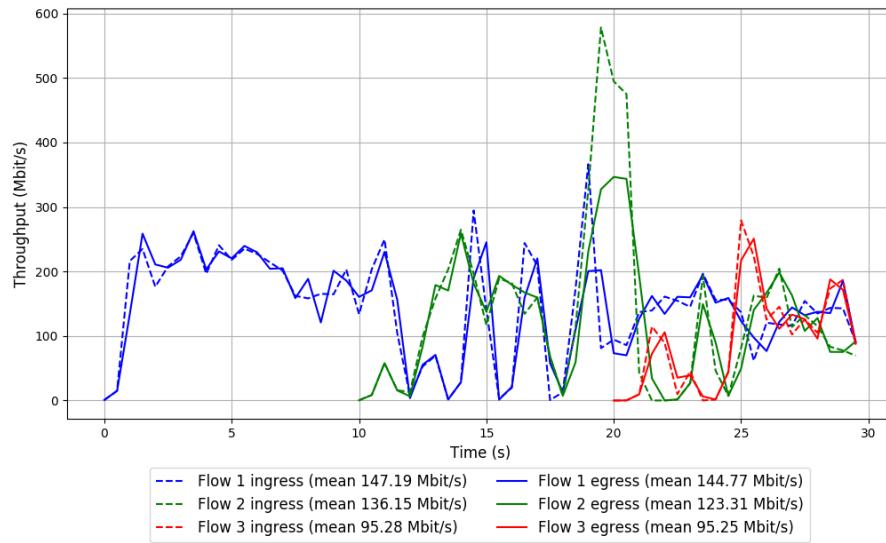
Run 8: Statistics of Verus

Start at: 2018-04-19 00:16:35

End at: 2018-04-19 00:17:05

```
# Below is generated by plot.py at 2018-04-19 03:41:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.36 Mbit/s
95th percentile per-packet one-way delay: 339.652 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 144.77 Mbit/s
95th percentile per-packet one-way delay: 228.636 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 123.31 Mbit/s
95th percentile per-packet one-way delay: 352.960 ms
Loss rate: 9.27%
-- Flow 3:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 191.505 ms
Loss rate: 1.52%
```

Run 8: Report of Verus — Data Link



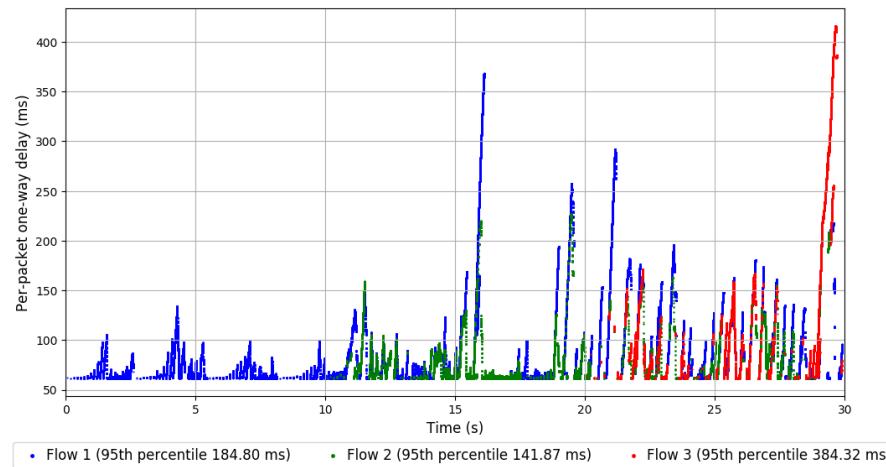
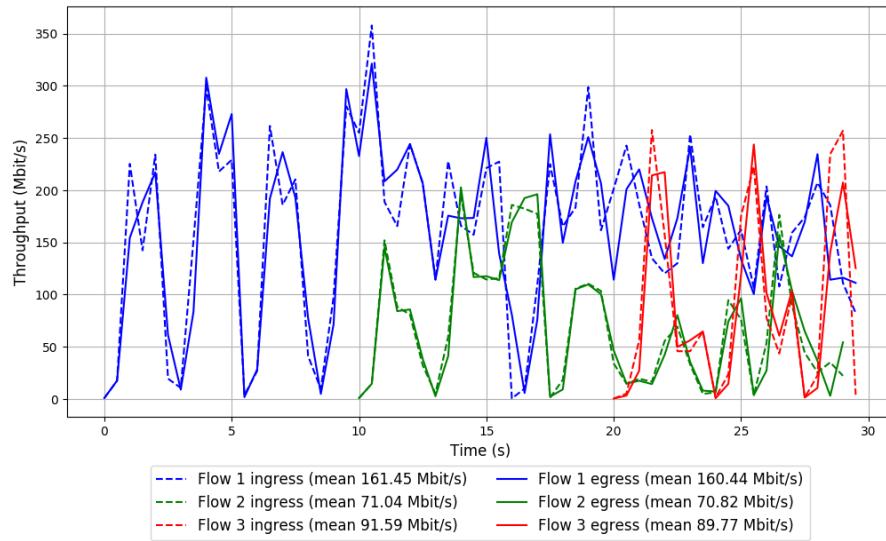
Run 9: Statistics of Verus

Start at: 2018-04-19 00:32:02

End at: 2018-04-19 00:32:32

```
# Below is generated by plot.py at 2018-04-19 03:42:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 235.87 Mbit/s
95th percentile per-packet one-way delay: 203.834 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 160.44 Mbit/s
95th percentile per-packet one-way delay: 184.796 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 70.82 Mbit/s
95th percentile per-packet one-way delay: 141.866 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 89.77 Mbit/s
95th percentile per-packet one-way delay: 384.317 ms
Loss rate: 1.92%
```

Run 9: Report of Verus — Data Link



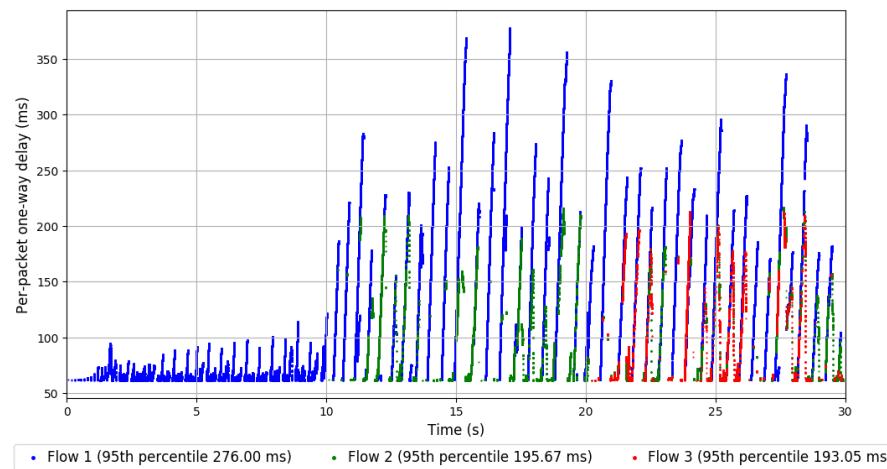
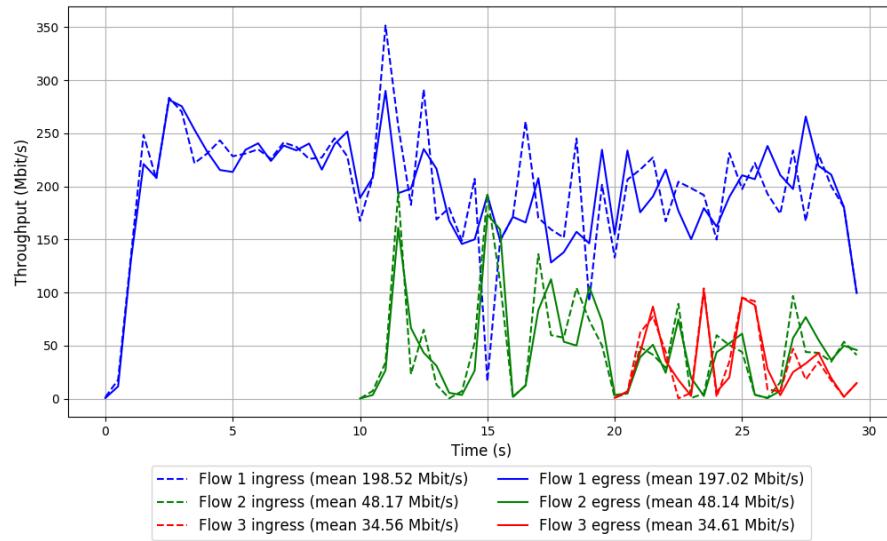
Run 10: Statistics of Verus

Start at: 2018-04-19 00:47:25

End at: 2018-04-19 00:47:55

```
# Below is generated by plot.py at 2018-04-19 03:43:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 239.69 Mbit/s
95th percentile per-packet one-way delay: 265.148 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 197.02 Mbit/s
95th percentile per-packet one-way delay: 276.002 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 195.671 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 34.61 Mbit/s
95th percentile per-packet one-way delay: 193.050 ms
Loss rate: 0.04%
```

Run 10: Report of Verus — Data Link



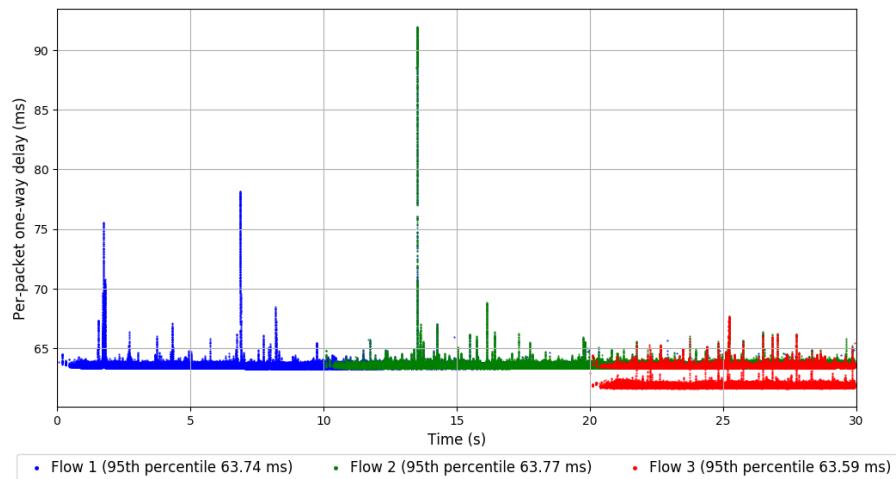
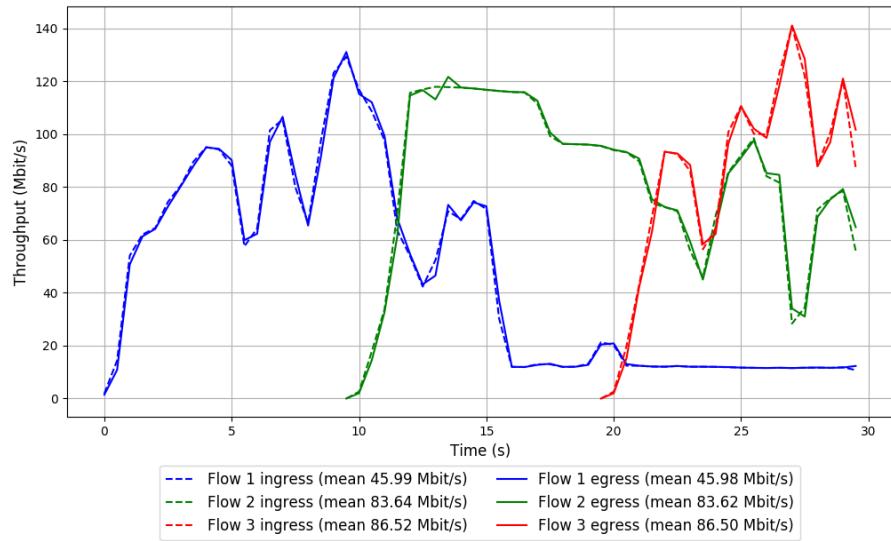
Run 1: Statistics of Copa

Start at: 2018-04-18 22:20:04

End at: 2018-04-18 22:20:34

```
# Below is generated by plot.py at 2018-04-19 03:43:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 130.61 Mbit/s
95th percentile per-packet one-way delay: 63.742 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 45.98 Mbit/s
95th percentile per-packet one-way delay: 63.736 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 83.62 Mbit/s
95th percentile per-packet one-way delay: 63.774 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 63.589 ms
Loss rate: 0.02%
```

Run 1: Report of Copa — Data Link



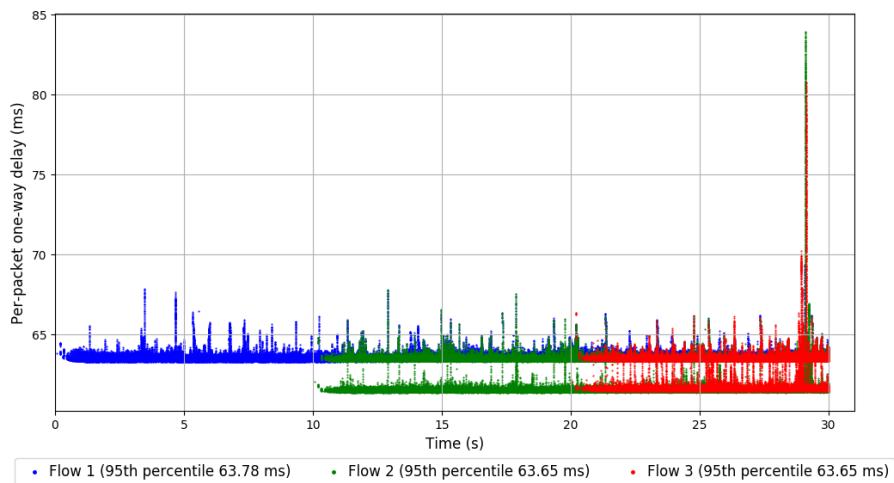
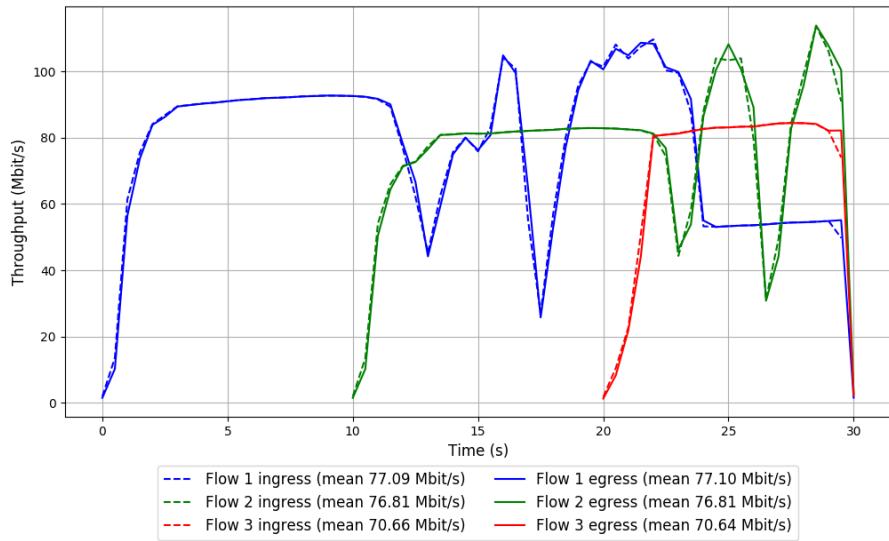
Run 2: Statistics of Copa

Start at: 2018-04-18 22:35:36

End at: 2018-04-18 22:36:06

```
# Below is generated by plot.py at 2018-04-19 03:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 151.68 Mbit/s
95th percentile per-packet one-way delay: 63.751 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 77.10 Mbit/s
95th percentile per-packet one-way delay: 63.783 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.81 Mbit/s
95th percentile per-packet one-way delay: 63.649 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 70.64 Mbit/s
95th percentile per-packet one-way delay: 63.650 ms
Loss rate: 0.02%
```

Run 2: Report of Copa — Data Link



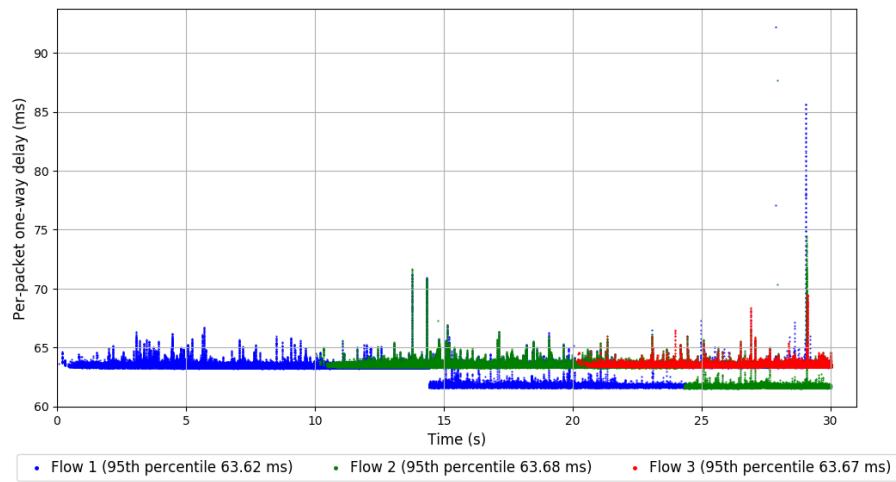
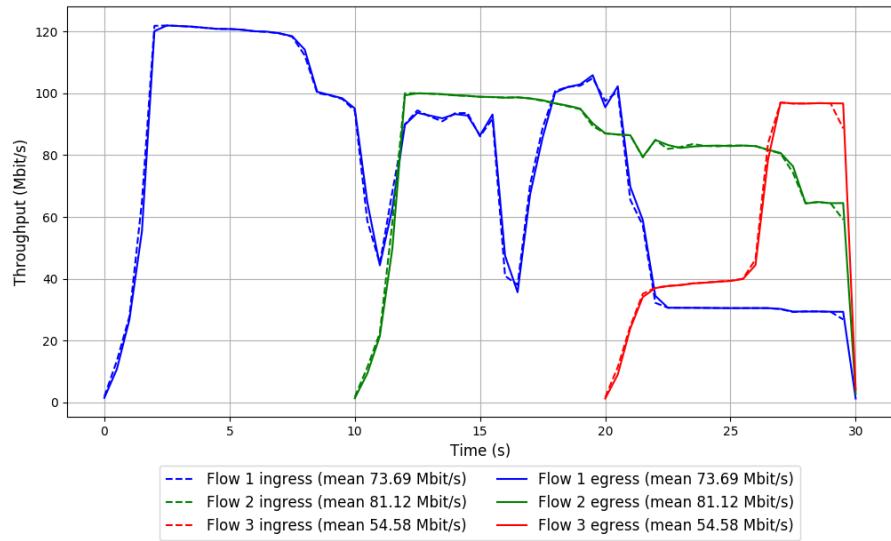
Run 3: Statistics of Copa

Start at: 2018-04-18 22:51:26

End at: 2018-04-18 22:51:56

```
# Below is generated by plot.py at 2018-04-19 03:46:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.78 Mbit/s
95th percentile per-packet one-way delay: 63.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.69 Mbit/s
95th percentile per-packet one-way delay: 63.621 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 81.12 Mbit/s
95th percentile per-packet one-way delay: 63.677 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 54.58 Mbit/s
95th percentile per-packet one-way delay: 63.674 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link



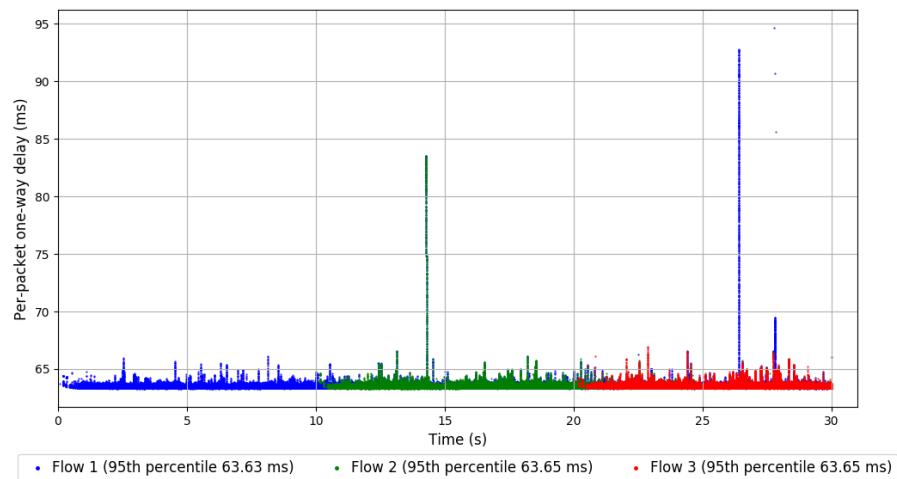
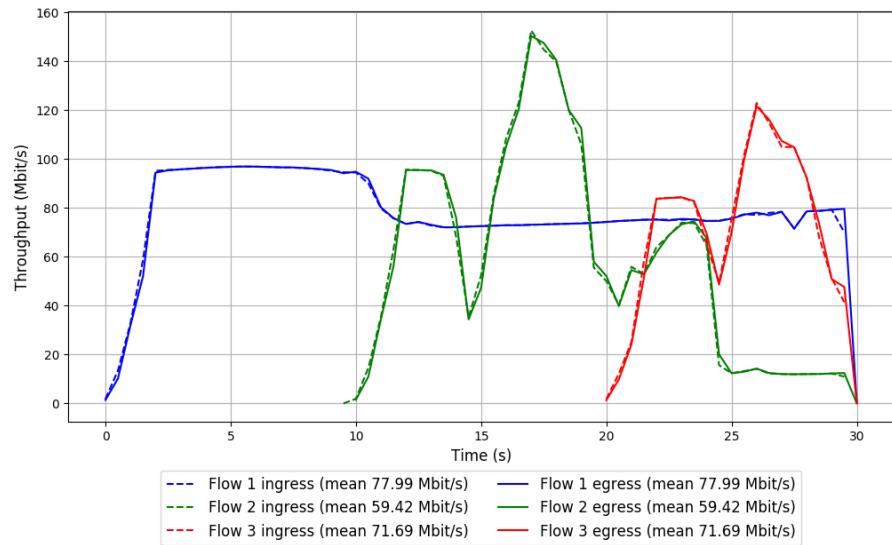
Run 4: Statistics of Copa

Start at: 2018-04-18 23:07:03

End at: 2018-04-18 23:07:33

```
# Below is generated by plot.py at 2018-04-19 03:46:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 141.36 Mbit/s
95th percentile per-packet one-way delay: 63.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.99 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.42 Mbit/s
95th percentile per-packet one-way delay: 63.647 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 71.69 Mbit/s
95th percentile per-packet one-way delay: 63.649 ms
Loss rate: 0.01%
```

Run 4: Report of Copa — Data Link



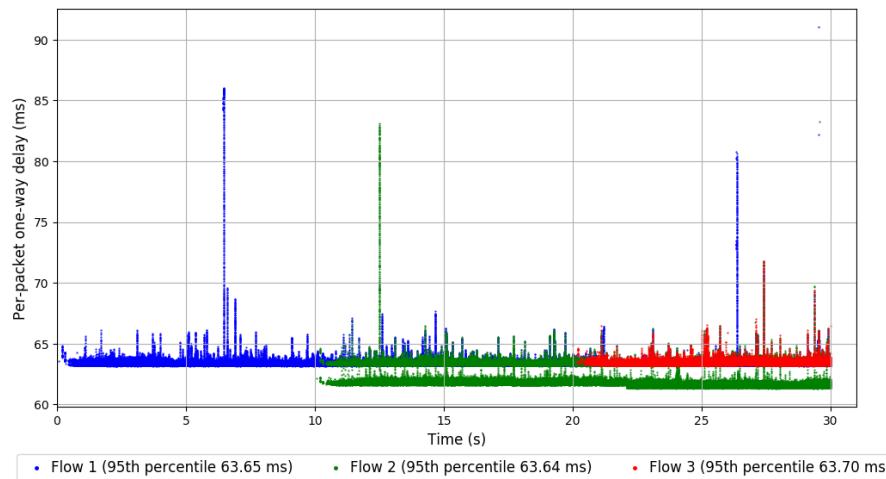
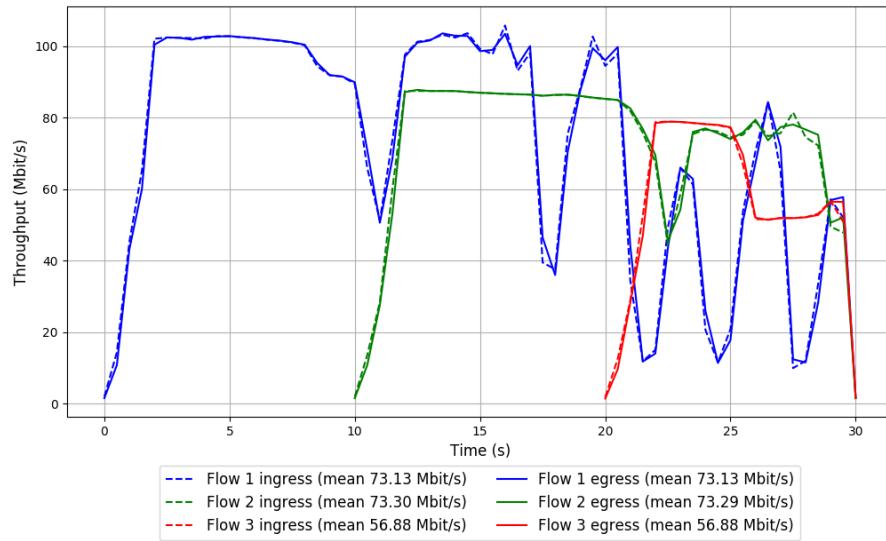
Run 5: Statistics of Copa

Start at: 2018-04-18 23:22:36

End at: 2018-04-18 23:23:06

```
# Below is generated by plot.py at 2018-04-19 03:46:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.83 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.13 Mbit/s
95th percentile per-packet one-way delay: 63.649 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 73.29 Mbit/s
95th percentile per-packet one-way delay: 63.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 63.698 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link



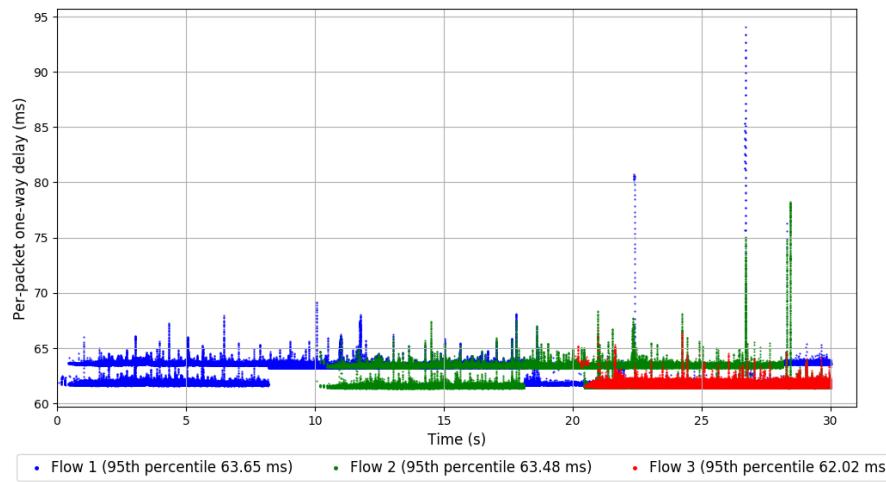
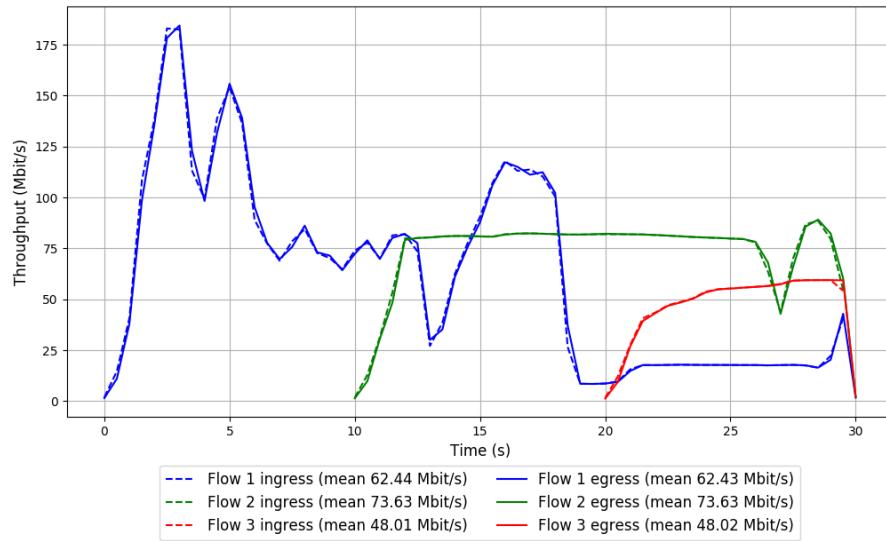
Run 6: Statistics of Copa

Start at: 2018-04-18 23:38:20

End at: 2018-04-18 23:38:50

```
# Below is generated by plot.py at 2018-04-19 03:46:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.38 Mbit/s
95th percentile per-packet one-way delay: 63.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 63.651 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 73.63 Mbit/s
95th percentile per-packet one-way delay: 63.475 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 48.02 Mbit/s
95th percentile per-packet one-way delay: 62.024 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link



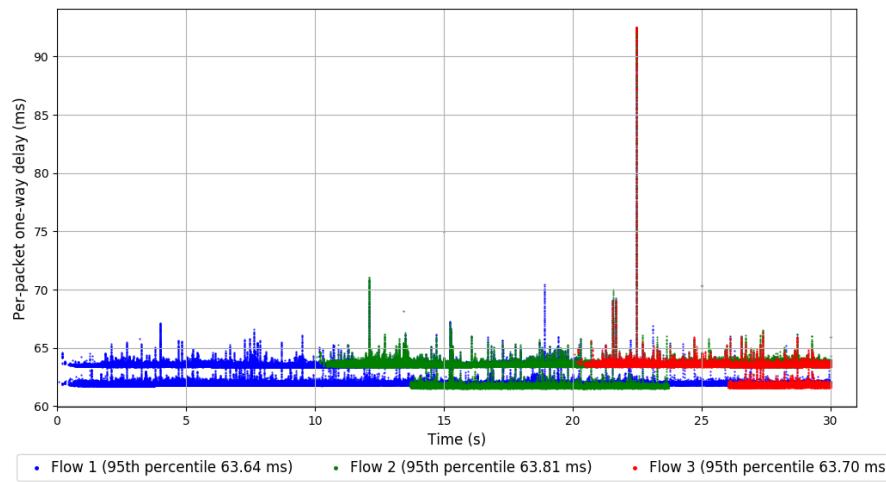
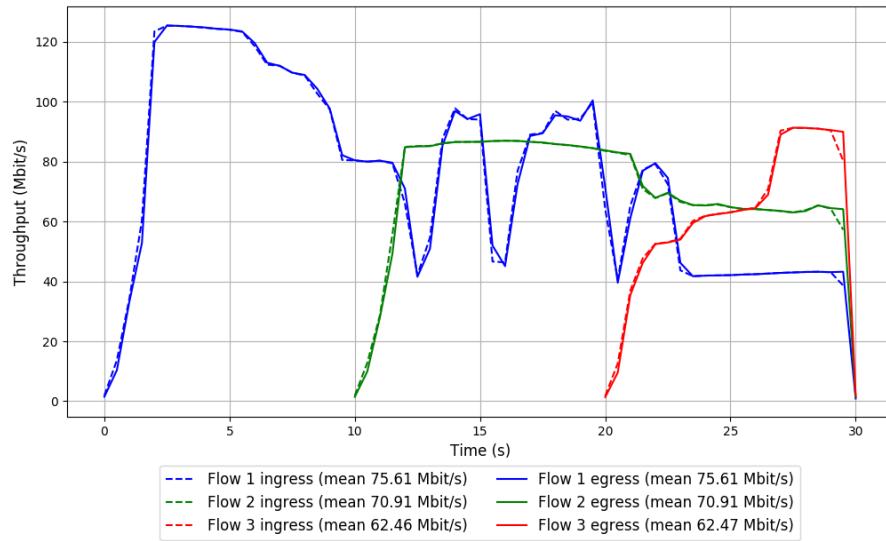
Run 7: Statistics of Copa

Start at: 2018-04-18 23:53:55

End at: 2018-04-18 23:54:25

```
# Below is generated by plot.py at 2018-04-19 03:48:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 143.54 Mbit/s
95th percentile per-packet one-way delay: 63.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.61 Mbit/s
95th percentile per-packet one-way delay: 63.639 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.91 Mbit/s
95th percentile per-packet one-way delay: 63.810 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.47 Mbit/s
95th percentile per-packet one-way delay: 63.699 ms
Loss rate: 0.00%
```

Run 7: Report of Copa — Data Link



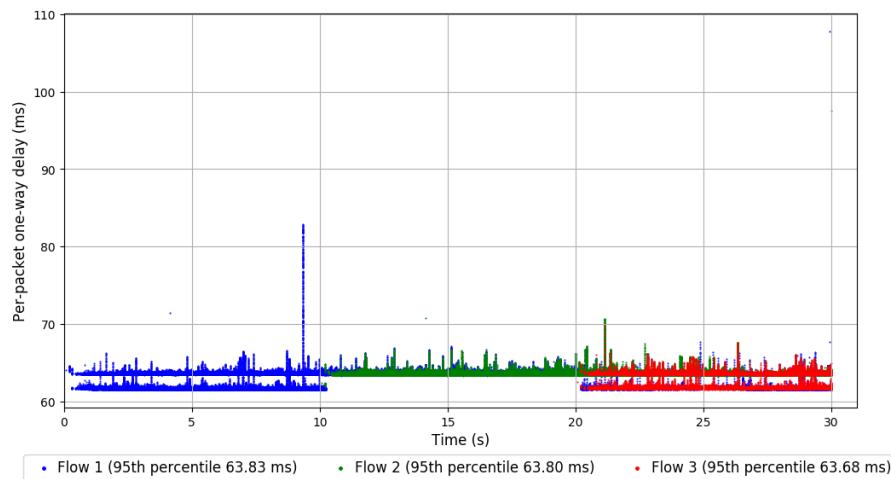
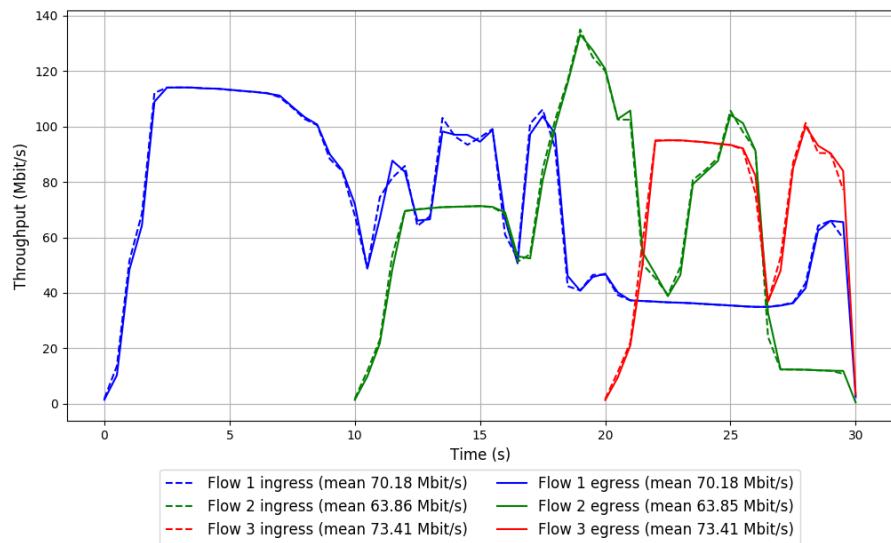
Run 8: Statistics of Copa

Start at: 2018-04-19 00:09:41

End at: 2018-04-19 00:10:11

```
# Below is generated by plot.py at 2018-04-19 03:48:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 137.03 Mbit/s
95th percentile per-packet one-way delay: 63.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.18 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.85 Mbit/s
95th percentile per-packet one-way delay: 63.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 73.41 Mbit/s
95th percentile per-packet one-way delay: 63.676 ms
Loss rate: 0.01%
```

Run 8: Report of Copa — Data Link



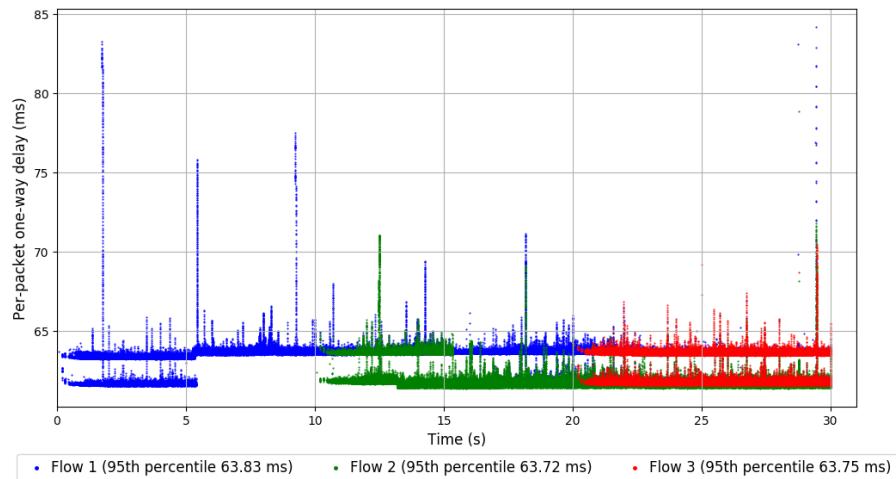
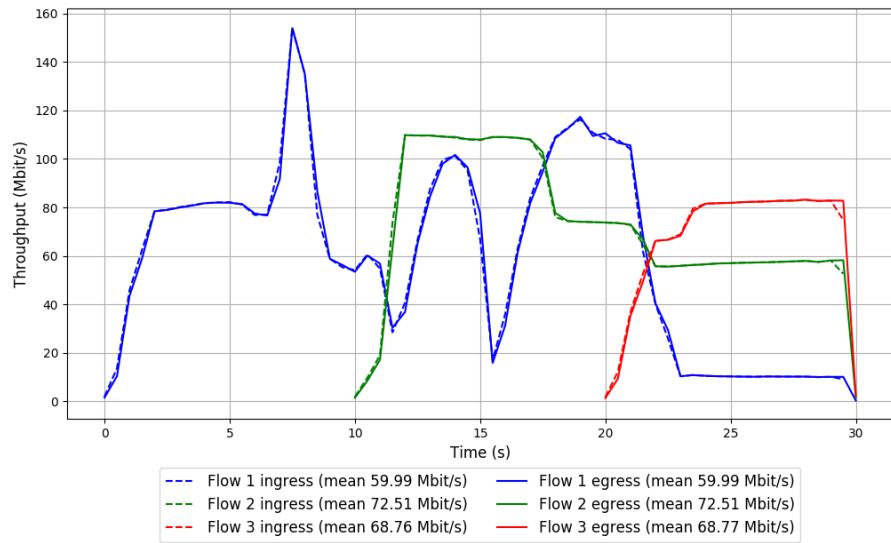
Run 9: Statistics of Copa

Start at: 2018-04-19 00:25:15

End at: 2018-04-19 00:25:45

```
# Below is generated by plot.py at 2018-04-19 03:48:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 131.06 Mbit/s
95th percentile per-packet one-way delay: 63.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.99 Mbit/s
95th percentile per-packet one-way delay: 63.832 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 63.717 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 63.749 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link



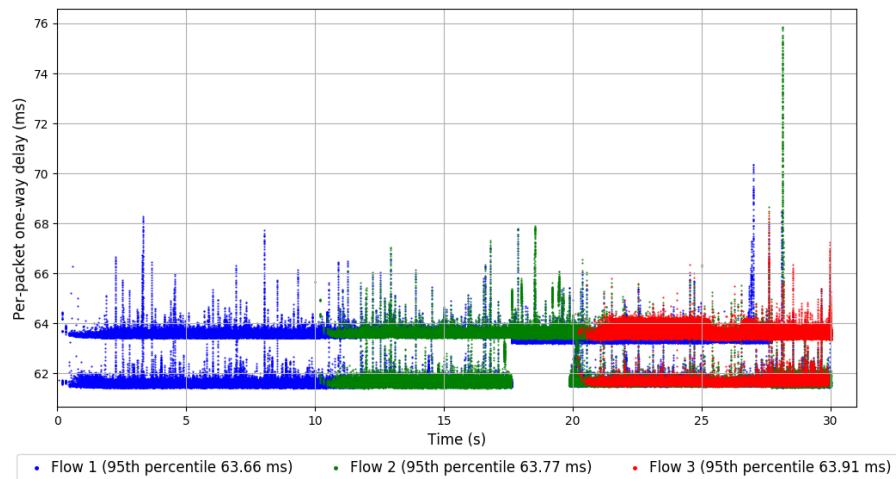
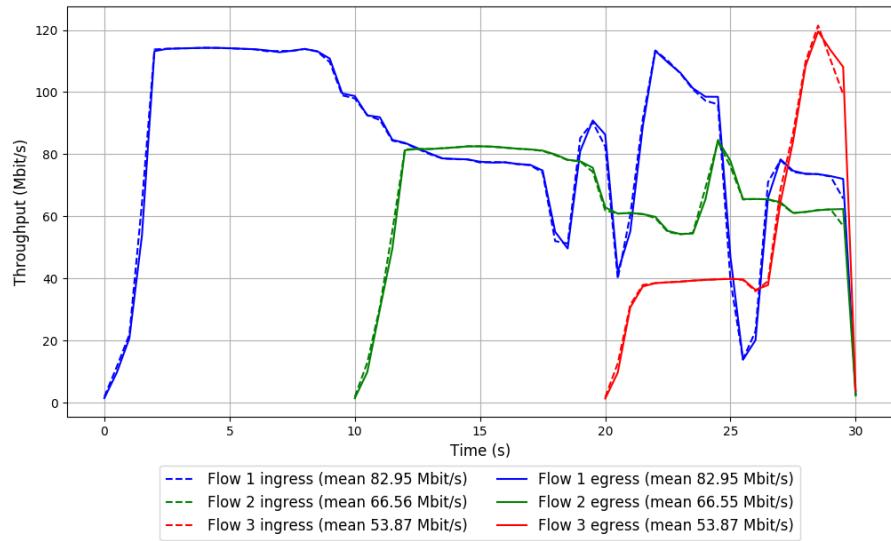
Run 10: Statistics of Copa

Start at: 2018-04-19 00:40:41

End at: 2018-04-19 00:41:11

```
# Below is generated by plot.py at 2018-04-19 03:50:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.12 Mbit/s
95th percentile per-packet one-way delay: 63.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.95 Mbit/s
95th percentile per-packet one-way delay: 63.665 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.55 Mbit/s
95th percentile per-packet one-way delay: 63.768 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.87 Mbit/s
95th percentile per-packet one-way delay: 63.914 ms
Loss rate: 0.00%
```

Run 10: Report of Copa — Data Link

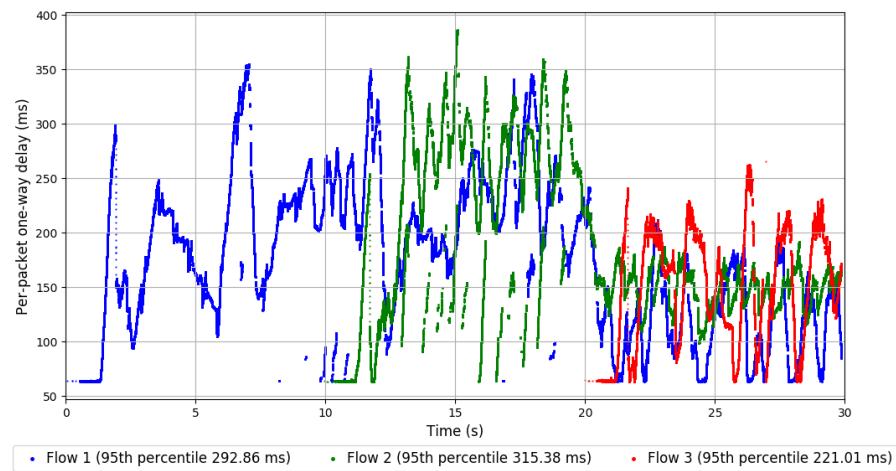
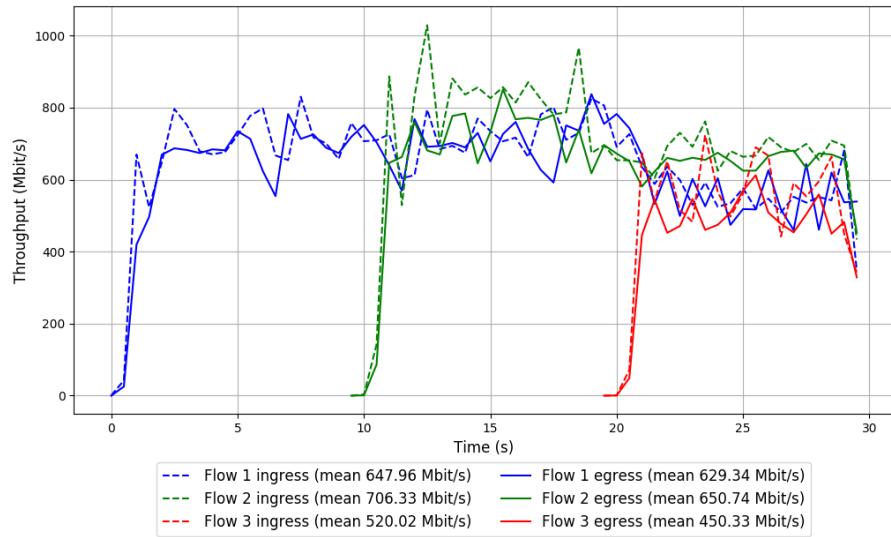


```
Run 1: Statistics of FillP

Start at: 2018-04-18 22:29:50
End at: 2018-04-18 22:30:20

# Below is generated by plot.py at 2018-04-19 04:11:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1213.67 Mbit/s
95th percentile per-packet one-way delay: 301.428 ms
Loss rate: 6.11%
-- Flow 1:
Average throughput: 629.34 Mbit/s
95th percentile per-packet one-way delay: 292.860 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 650.74 Mbit/s
95th percentile per-packet one-way delay: 315.382 ms
Loss rate: 7.87%
-- Flow 3:
Average throughput: 450.33 Mbit/s
95th percentile per-packet one-way delay: 221.006 ms
Loss rate: 13.42%
```

Run 1: Report of FillP — Data Link



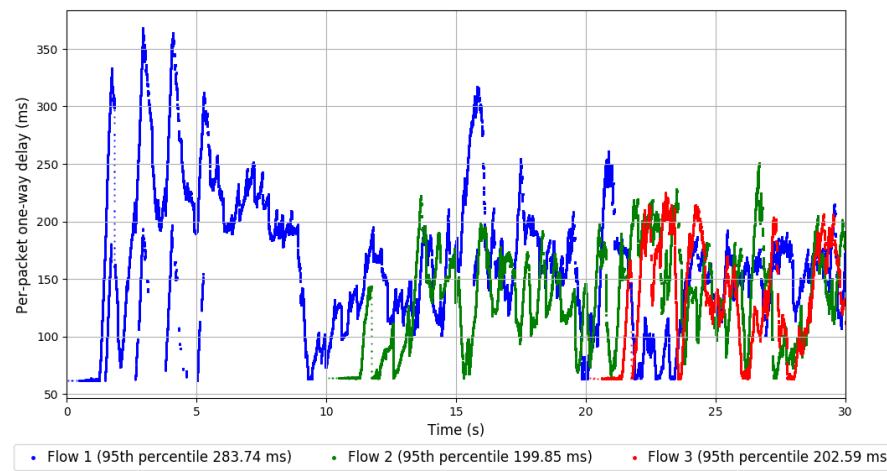
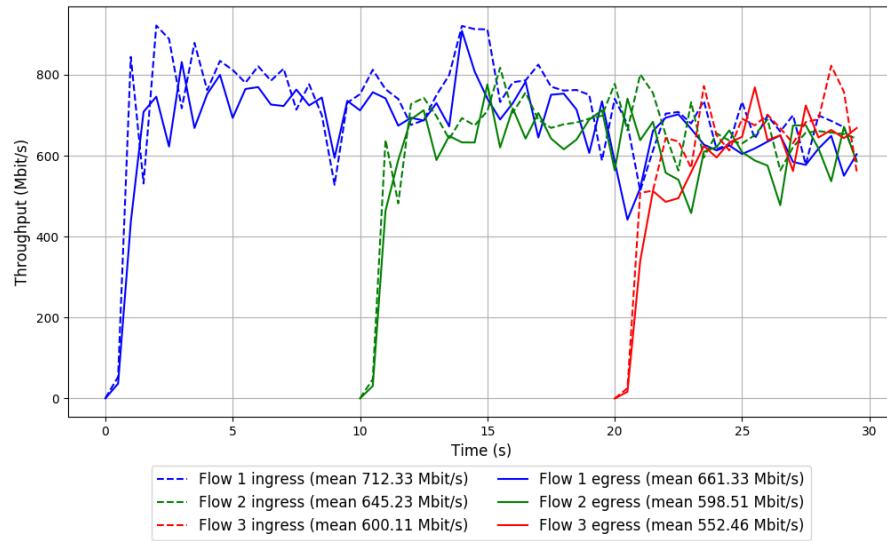
Run 2: Statistics of FillP

Start at: 2018-04-18 22:45:32

End at: 2018-04-18 22:46:02

```
# Below is generated by plot.py at 2018-04-19 04:11:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1241.05 Mbit/s
95th percentile per-packet one-way delay: 240.752 ms
Loss rate: 7.31%
-- Flow 1:
Average throughput: 661.33 Mbit/s
95th percentile per-packet one-way delay: 283.742 ms
Loss rate: 7.16%
-- Flow 2:
Average throughput: 598.51 Mbit/s
95th percentile per-packet one-way delay: 199.846 ms
Loss rate: 7.25%
-- Flow 3:
Average throughput: 552.46 Mbit/s
95th percentile per-packet one-way delay: 202.585 ms
Loss rate: 7.96%
```

Run 2: Report of FillP — Data Link



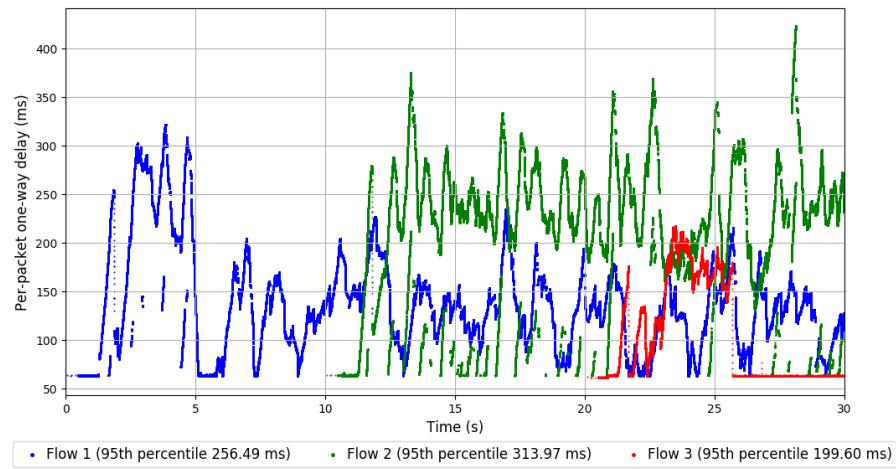
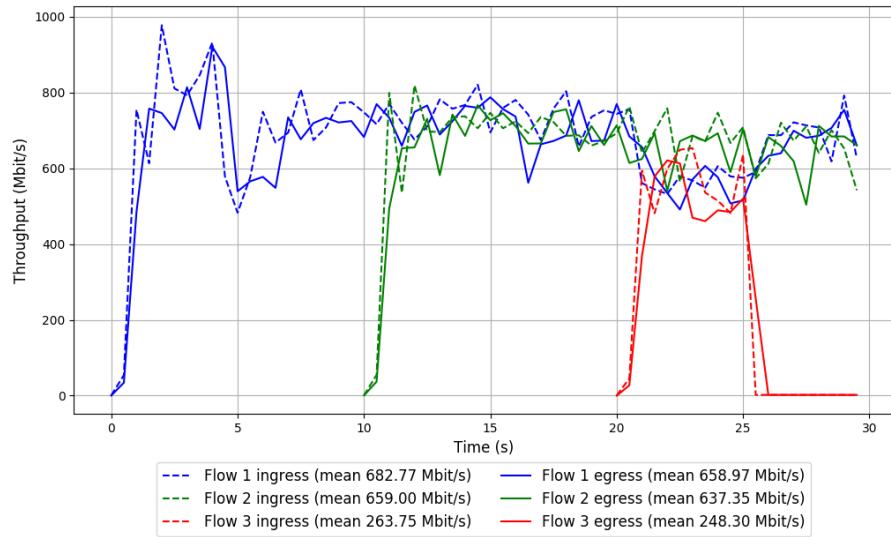
Run 3: Statistics of FillP

Start at: 2018-04-18 23:01:18

End at: 2018-04-18 23:01:48

```
# Below is generated by plot.py at 2018-04-19 04:11:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1165.21 Mbit/s
95th percentile per-packet one-way delay: 289.524 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 658.97 Mbit/s
95th percentile per-packet one-way delay: 256.494 ms
Loss rate: 3.48%
-- Flow 2:
Average throughput: 637.35 Mbit/s
95th percentile per-packet one-way delay: 313.966 ms
Loss rate: 3.28%
-- Flow 3:
Average throughput: 248.30 Mbit/s
95th percentile per-packet one-way delay: 199.600 ms
Loss rate: 5.85%
```

Run 3: Report of FillP — Data Link



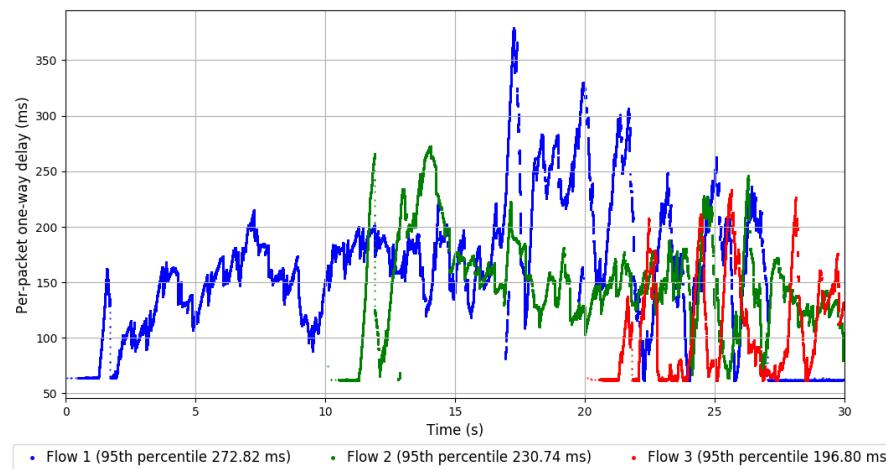
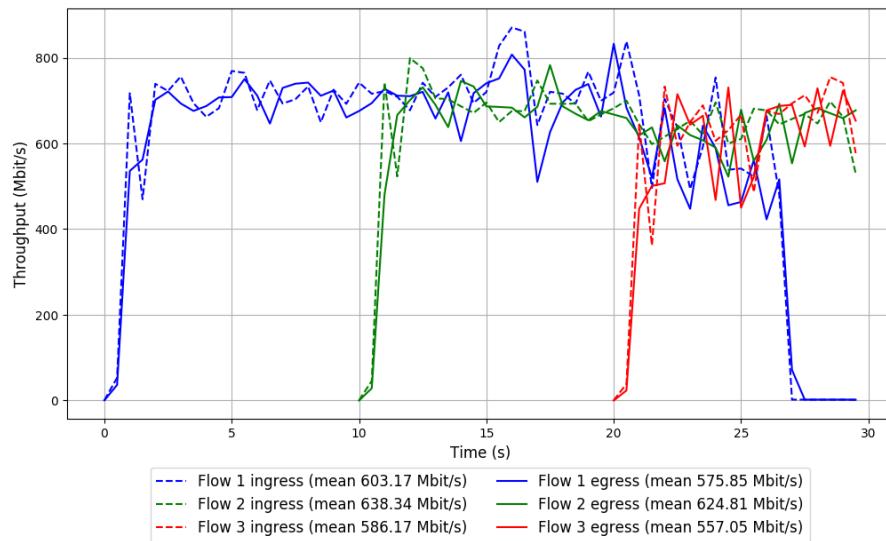
Run 4: Statistics of FillP

Start at: 2018-04-18 23:16:54

End at: 2018-04-18 23:17:24

```
# Below is generated by plot.py at 2018-04-19 04:11:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1175.60 Mbit/s
95th percentile per-packet one-way delay: 254.535 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 575.85 Mbit/s
95th percentile per-packet one-way delay: 272.825 ms
Loss rate: 4.53%
-- Flow 2:
Average throughput: 624.81 Mbit/s
95th percentile per-packet one-way delay: 230.738 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 557.05 Mbit/s
95th percentile per-packet one-way delay: 196.803 ms
Loss rate: 4.98%
```

Run 4: Report of FillP — Data Link



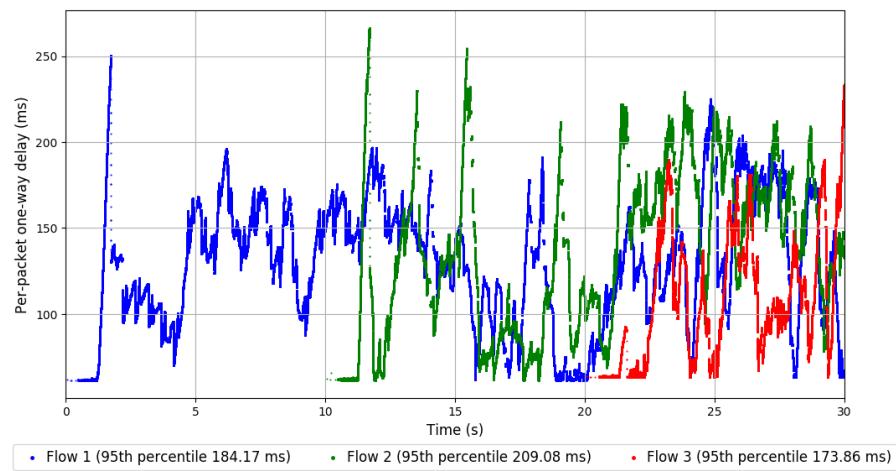
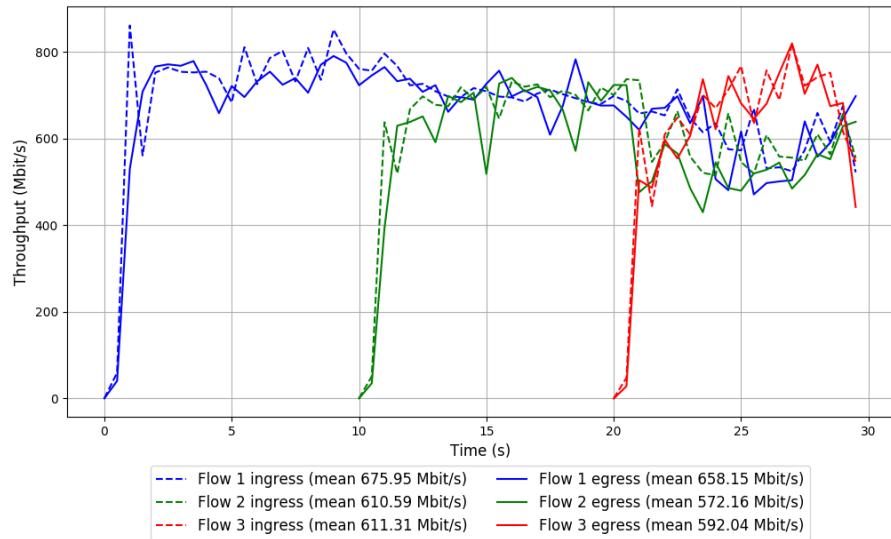
Run 5: Statistics of FillP

Start at: 2018-04-18 23:32:29

End at: 2018-04-18 23:32:59

```
# Below is generated by plot.py at 2018-04-19 04:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1235.01 Mbit/s
95th percentile per-packet one-way delay: 191.718 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 658.15 Mbit/s
95th percentile per-packet one-way delay: 184.171 ms
Loss rate: 2.63%
-- Flow 2:
Average throughput: 572.16 Mbit/s
95th percentile per-packet one-way delay: 209.083 ms
Loss rate: 6.28%
-- Flow 3:
Average throughput: 592.04 Mbit/s
95th percentile per-packet one-way delay: 173.858 ms
Loss rate: 3.15%
```

Run 5: Report of FillP — Data Link



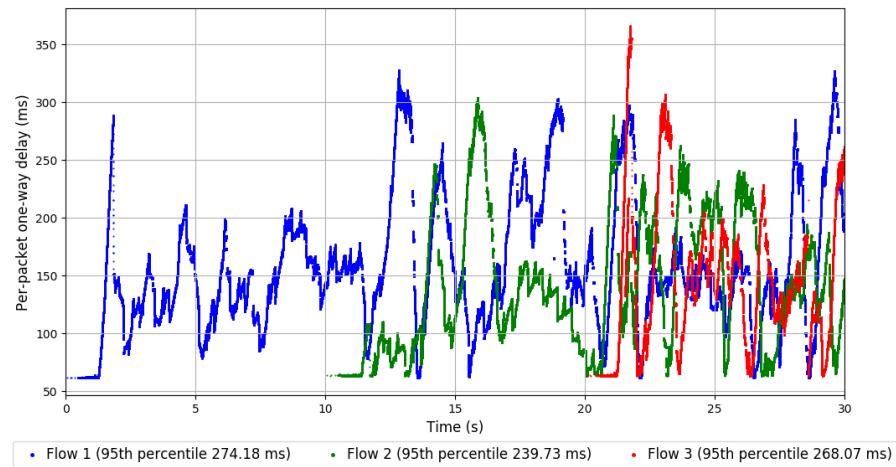
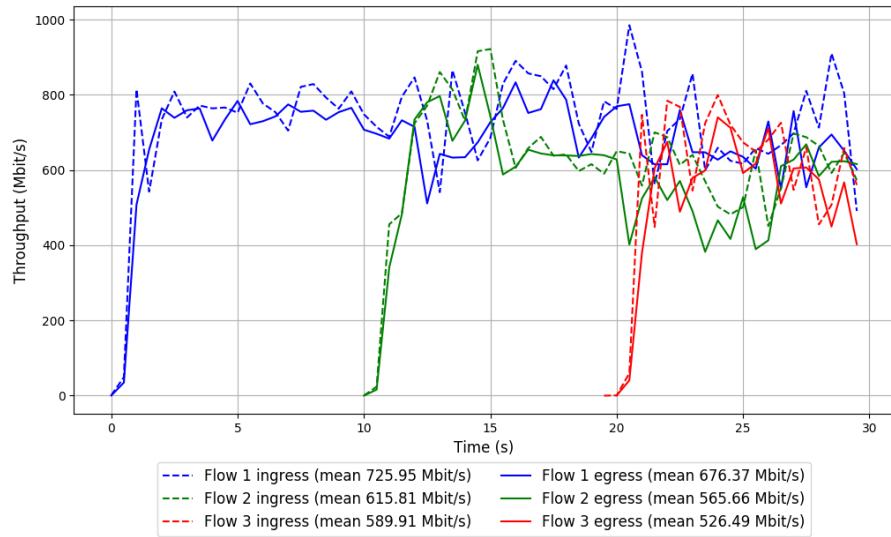
Run 6: Statistics of FillP

Start at: 2018-04-18 23:48:09

End at: 2018-04-18 23:48:39

```
# Below is generated by plot.py at 2018-04-19 04:14:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1227.57 Mbit/s
95th percentile per-packet one-way delay: 263.022 ms
Loss rate: 7.81%
-- Flow 1:
Average throughput: 676.37 Mbit/s
95th percentile per-packet one-way delay: 274.180 ms
Loss rate: 6.82%
-- Flow 2:
Average throughput: 565.66 Mbit/s
95th percentile per-packet one-way delay: 239.728 ms
Loss rate: 8.14%
-- Flow 3:
Average throughput: 526.49 Mbit/s
95th percentile per-packet one-way delay: 268.067 ms
Loss rate: 10.75%
```

Run 6: Report of FillP — Data Link



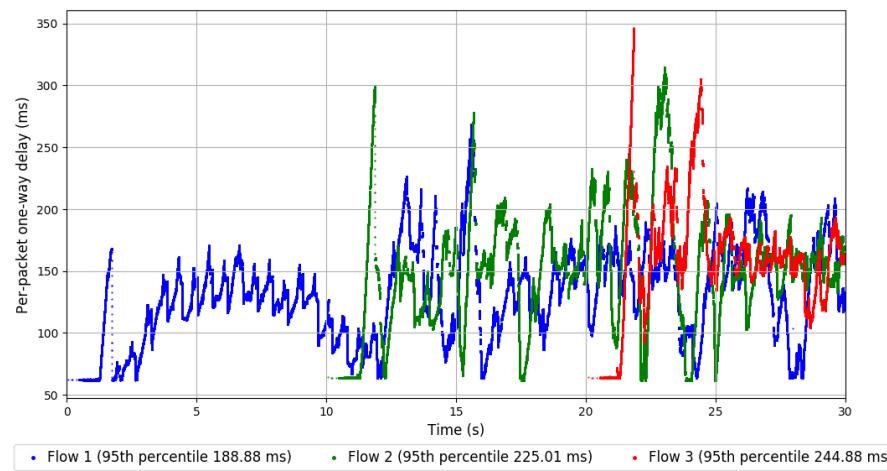
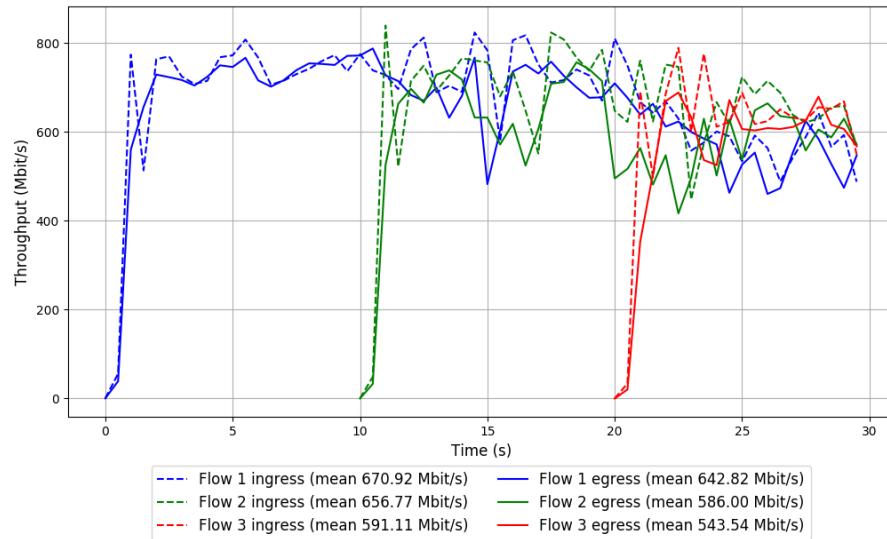
Run 7: Statistics of FillP

Start at: 2018-04-19 00:03:53

End at: 2018-04-19 00:04:23

```
# Below is generated by plot.py at 2018-04-19 04:14:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1212.20 Mbit/s
95th percentile per-packet one-way delay: 208.635 ms
Loss rate: 6.97%
-- Flow 1:
Average throughput: 642.82 Mbit/s
95th percentile per-packet one-way delay: 188.880 ms
Loss rate: 4.18%
-- Flow 2:
Average throughput: 586.00 Mbit/s
95th percentile per-packet one-way delay: 225.008 ms
Loss rate: 10.77%
-- Flow 3:
Average throughput: 543.54 Mbit/s
95th percentile per-packet one-way delay: 244.884 ms
Loss rate: 8.04%
```

Run 7: Report of FillP — Data Link



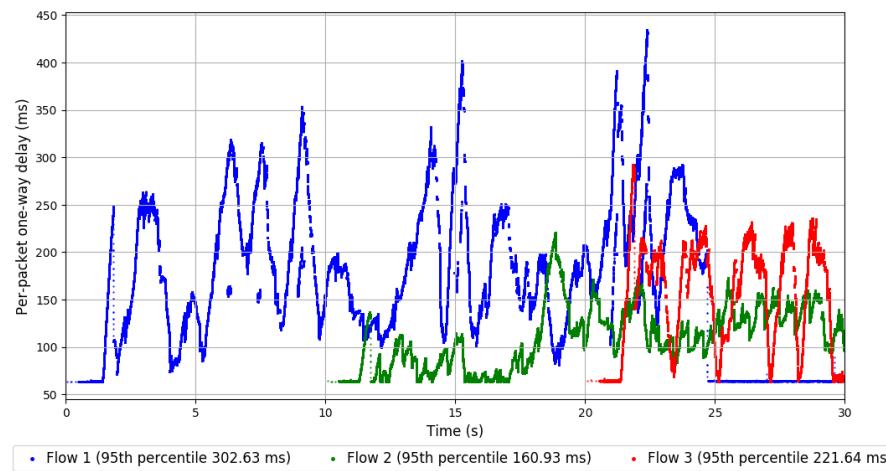
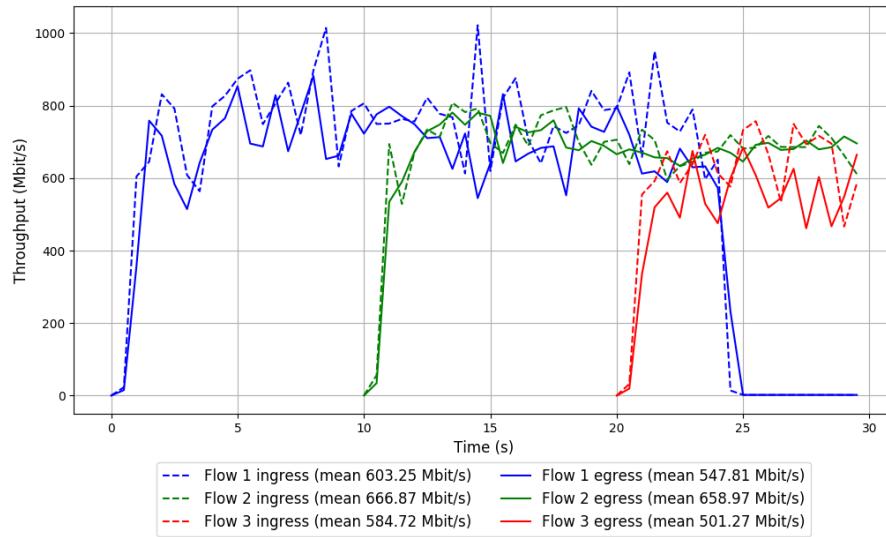
Run 8: Statistics of FillP

Start at: 2018-04-19 00:19:36

End at: 2018-04-19 00:20:06

```
# Below is generated by plot.py at 2018-04-19 04:14:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1152.05 Mbit/s
95th percentile per-packet one-way delay: 279.715 ms
Loss rate: 7.12%
-- Flow 1:
Average throughput: 547.81 Mbit/s
95th percentile per-packet one-way delay: 302.635 ms
Loss rate: 9.19%
-- Flow 2:
Average throughput: 658.97 Mbit/s
95th percentile per-packet one-way delay: 160.931 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 501.27 Mbit/s
95th percentile per-packet one-way delay: 221.643 ms
Loss rate: 14.28%
```

Run 8: Report of FillP — Data Link



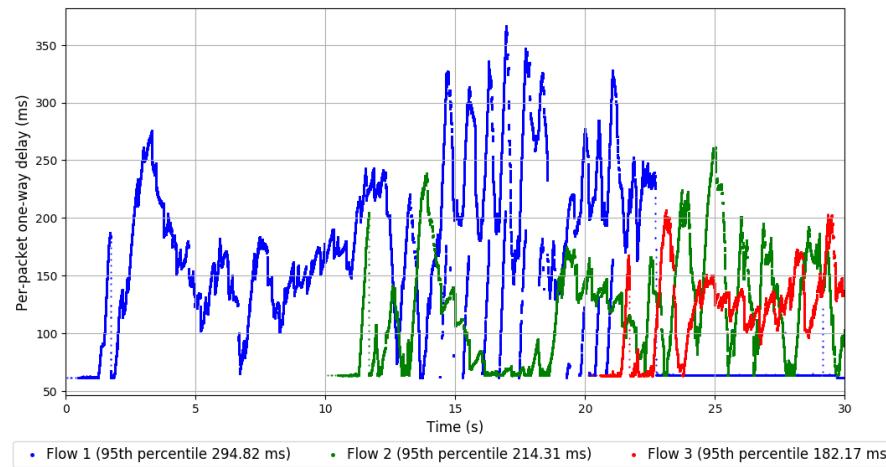
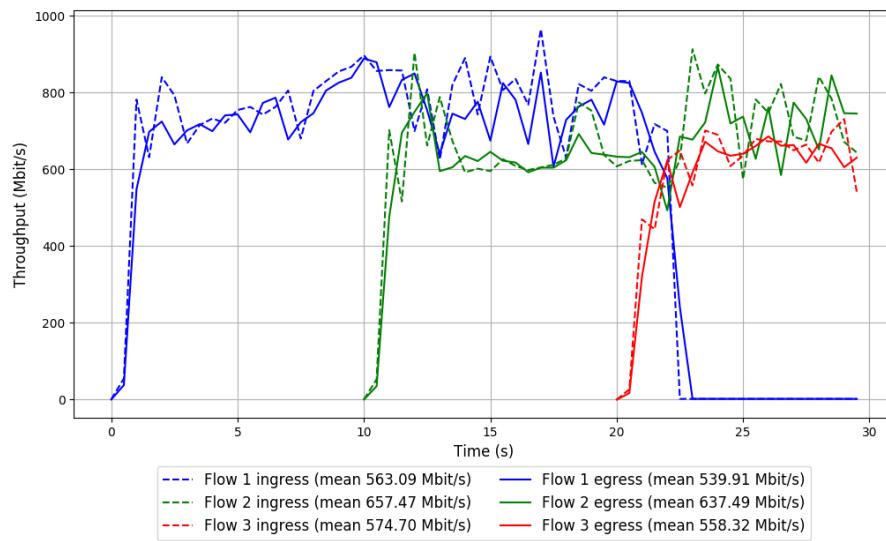
Run 9: Statistics of FillP

Start at: 2018-04-19 00:35:01

End at: 2018-04-19 00:35:31

```
# Below is generated by plot.py at 2018-04-19 04:34:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1147.85 Mbit/s
95th percentile per-packet one-way delay: 265.870 ms
Loss rate: 3.52%
-- Flow 1:
Average throughput: 539.91 Mbit/s
95th percentile per-packet one-way delay: 294.817 ms
Loss rate: 4.12%
-- Flow 2:
Average throughput: 637.49 Mbit/s
95th percentile per-packet one-way delay: 214.305 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 558.32 Mbit/s
95th percentile per-packet one-way delay: 182.170 ms
Loss rate: 2.85%
```

Run 9: Report of FillP — Data Link



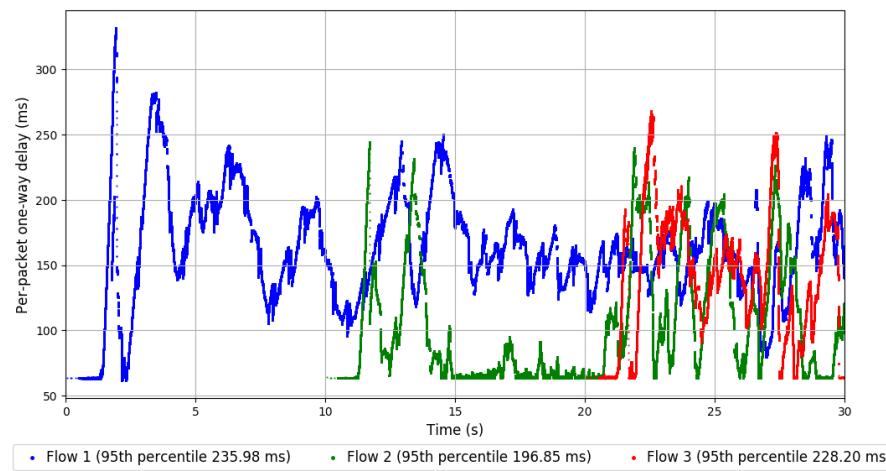
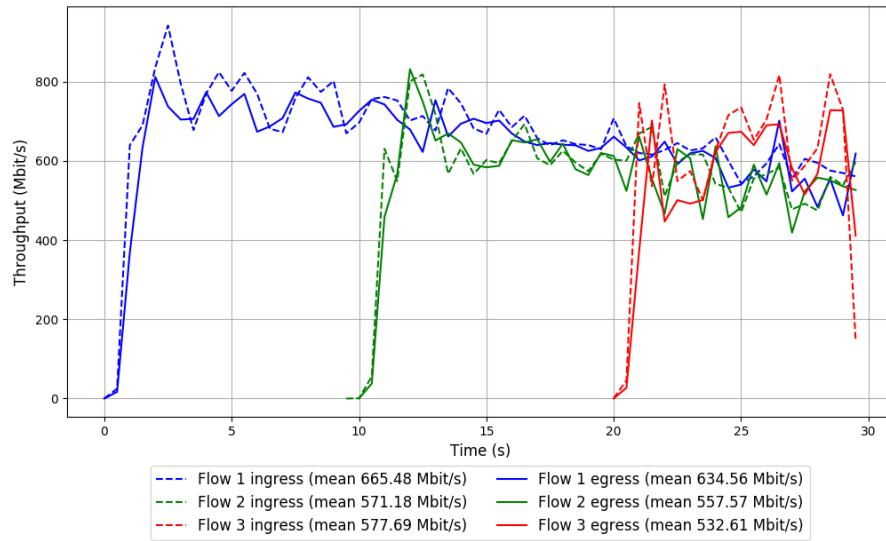
Run 10: Statistics of FillP

Start at: 2018-04-19 00:50:27

End at: 2018-04-19 00:50:57

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1182.47 Mbit/s
95th percentile per-packet one-way delay: 225.889 ms
Loss rate: 4.44%
-- Flow 1:
Average throughput: 634.56 Mbit/s
95th percentile per-packet one-way delay: 235.977 ms
Loss rate: 4.65%
-- Flow 2:
Average throughput: 557.57 Mbit/s
95th percentile per-packet one-way delay: 196.848 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 532.61 Mbit/s
95th percentile per-packet one-way delay: 228.203 ms
Loss rate: 7.80%
```

Run 10: Report of FillP — Data Link

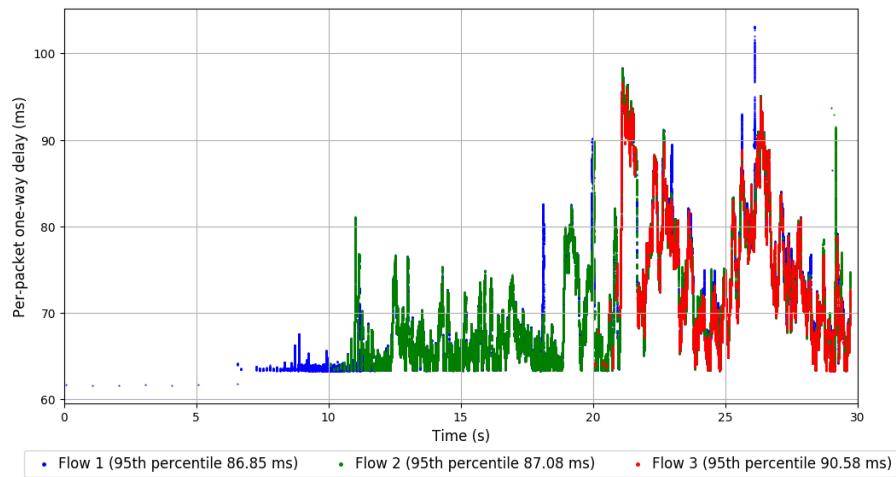
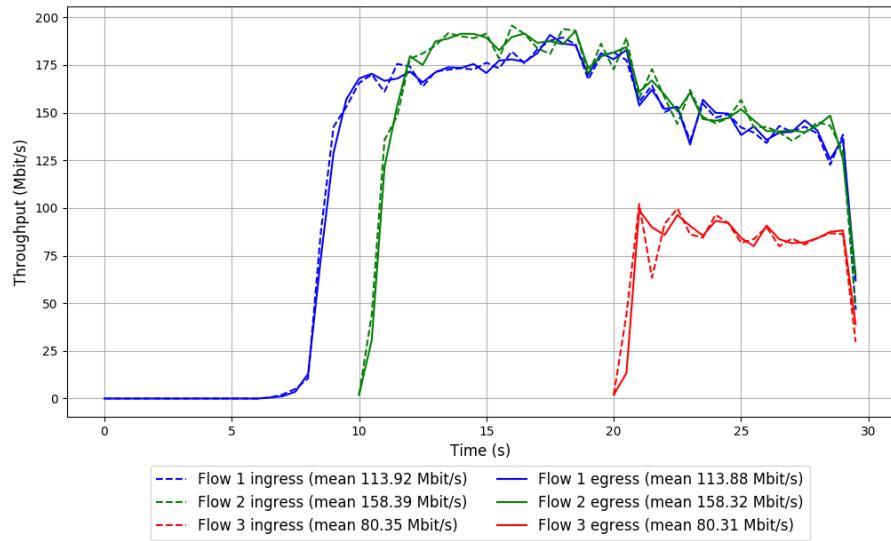


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-18 22:17:29
End at: 2018-04-18 22:17:59

# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 244.87 Mbit/s
95th percentile per-packet one-way delay: 87.468 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 113.88 Mbit/s
95th percentile per-packet one-way delay: 86.846 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 158.32 Mbit/s
95th percentile per-packet one-way delay: 87.079 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 80.31 Mbit/s
95th percentile per-packet one-way delay: 90.583 ms
Loss rate: 0.04%
```

Run 1: Report of Indigo-1-32 — Data Link



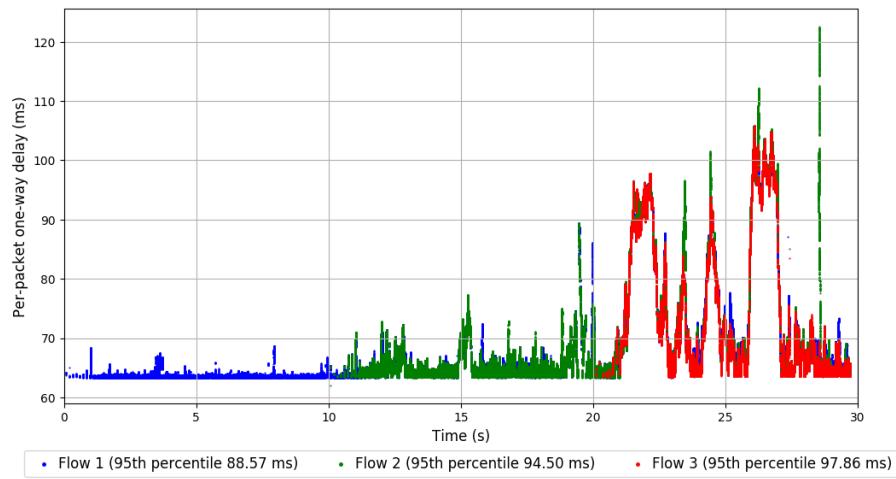
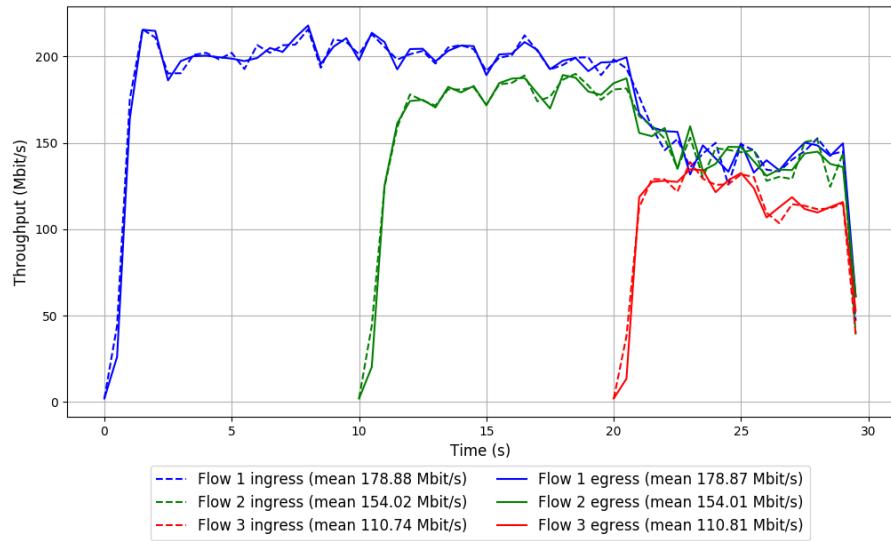
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-18 22:32:57

End at: 2018-04-18 22:33:27

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.86 Mbit/s
95th percentile per-packet one-way delay: 93.697 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 178.87 Mbit/s
95th percentile per-packet one-way delay: 88.571 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 154.01 Mbit/s
95th percentile per-packet one-way delay: 94.504 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 110.81 Mbit/s
95th percentile per-packet one-way delay: 97.860 ms
Loss rate: 0.02%
```

Run 2: Report of Indigo-1-32 — Data Link



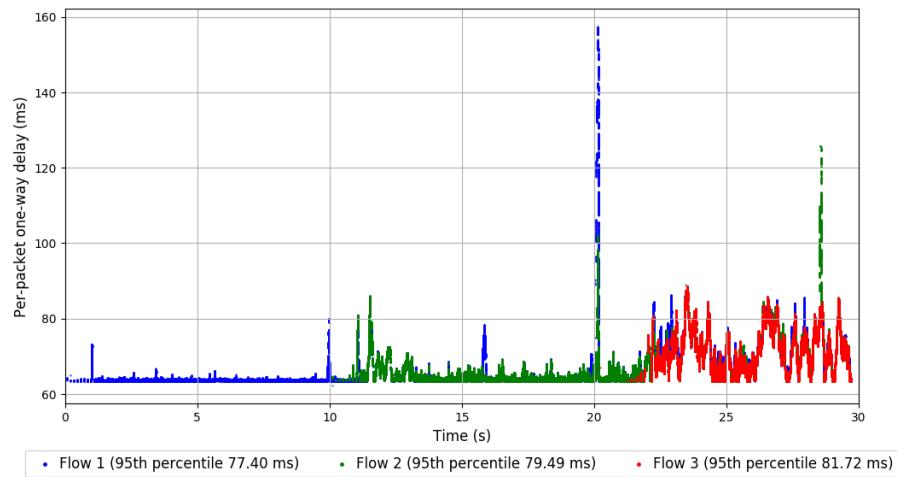
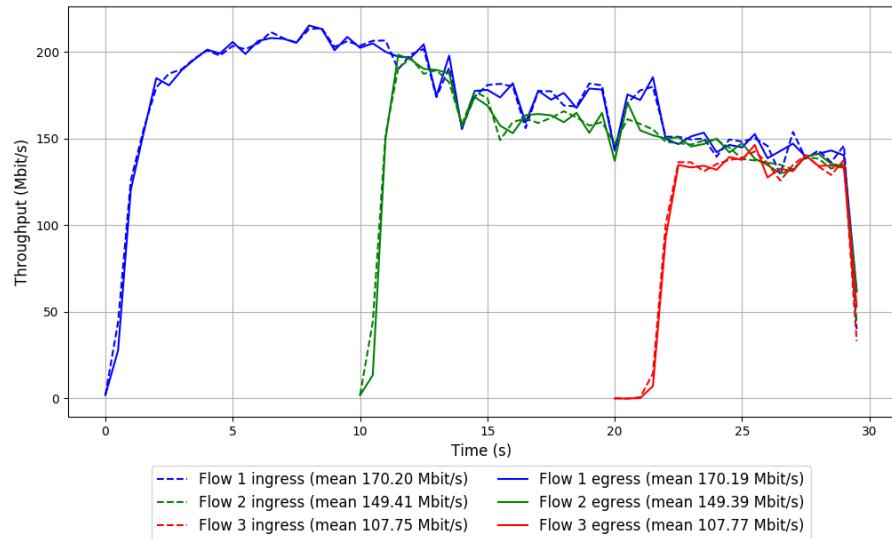
Run 3: Statistics of Indigo-1-32

Start at: 2018-04-18 22:48:48

End at: 2018-04-18 22:49:18

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.48 Mbit/s
95th percentile per-packet one-way delay: 79.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.19 Mbit/s
95th percentile per-packet one-way delay: 77.402 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 149.39 Mbit/s
95th percentile per-packet one-way delay: 79.487 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 107.77 Mbit/s
95th percentile per-packet one-way delay: 81.719 ms
Loss rate: 0.01%
```

Run 3: Report of Indigo-1-32 — Data Link



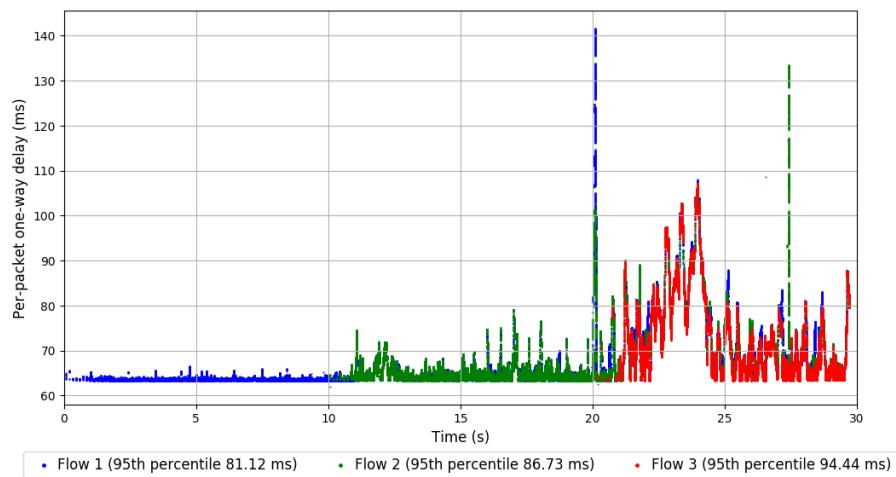
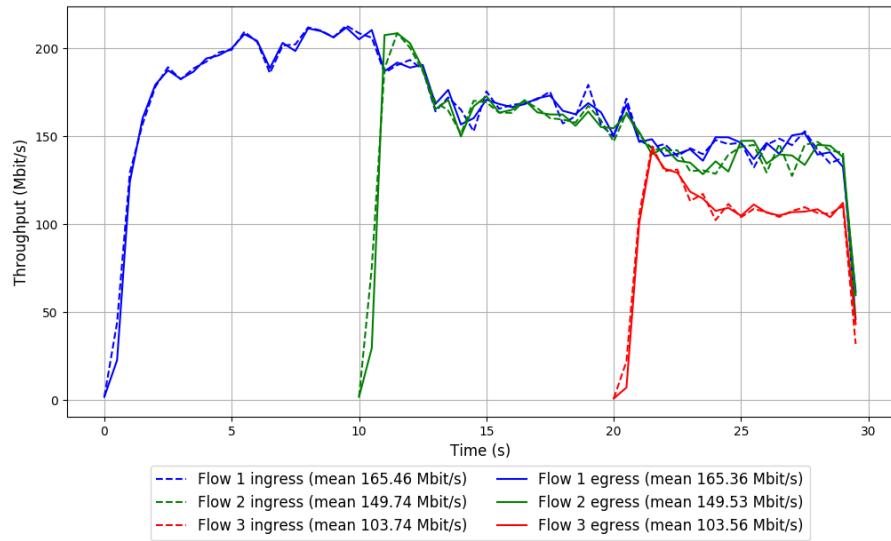
Run 4: Statistics of Indigo-1-32

Start at: 2018-04-18 23:04:23

End at: 2018-04-18 23:04:53

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.67 Mbit/s
95th percentile per-packet one-way delay: 85.460 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 165.36 Mbit/s
95th percentile per-packet one-way delay: 81.121 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 149.53 Mbit/s
95th percentile per-packet one-way delay: 86.731 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 103.56 Mbit/s
95th percentile per-packet one-way delay: 94.439 ms
Loss rate: 0.16%
```

Run 4: Report of Indigo-1-32 — Data Link



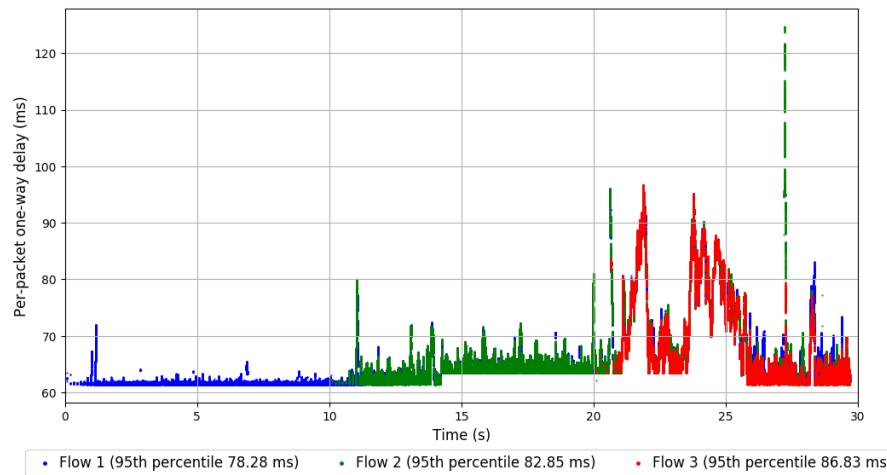
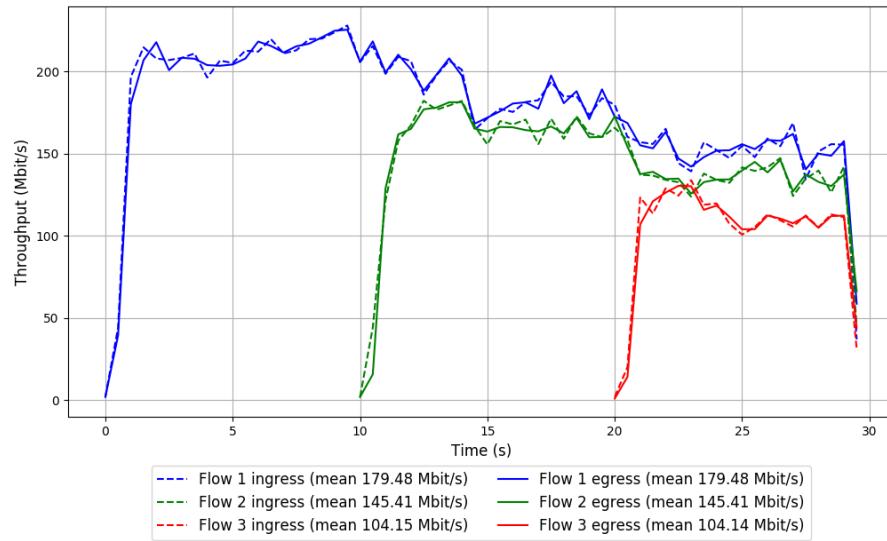
Run 5: Statistics of Indigo-1-32

Start at: 2018-04-18 23:19:56

End at: 2018-04-18 23:20:26

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.41 Mbit/s
95th percentile per-packet one-way delay: 81.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.48 Mbit/s
95th percentile per-packet one-way delay: 78.282 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.41 Mbit/s
95th percentile per-packet one-way delay: 82.848 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 104.14 Mbit/s
95th percentile per-packet one-way delay: 86.829 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-1-32 — Data Link



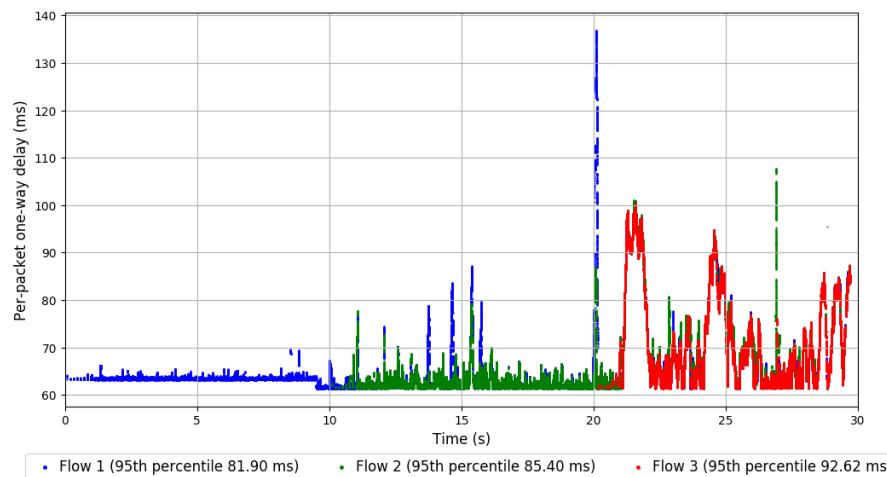
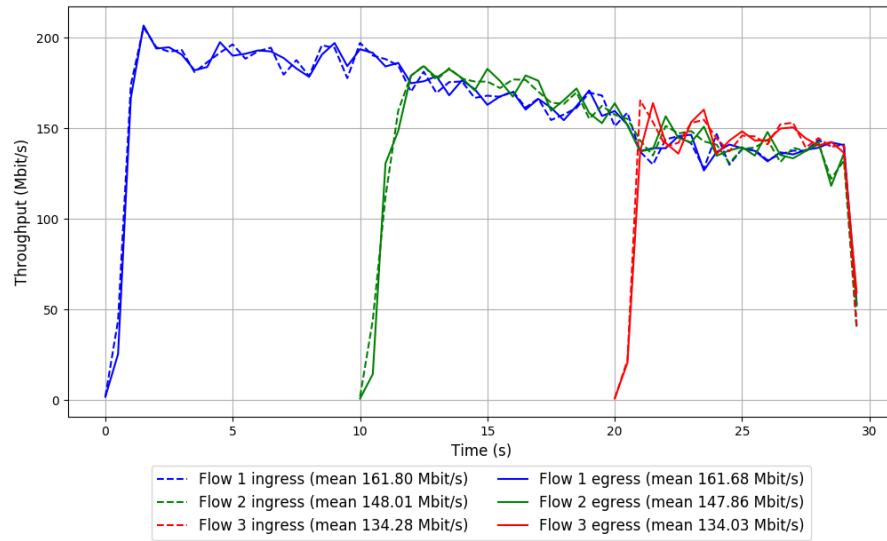
Run 6: Statistics of Indigo-1-32

Start at: 2018-04-18 23:35:41

End at: 2018-04-18 23:36:11

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 302.47 Mbit/s
95th percentile per-packet one-way delay: 85.838 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 161.68 Mbit/s
95th percentile per-packet one-way delay: 81.901 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 147.86 Mbit/s
95th percentile per-packet one-way delay: 85.397 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 134.03 Mbit/s
95th percentile per-packet one-way delay: 92.624 ms
Loss rate: 0.17%
```

Run 6: Report of Indigo-1-32 — Data Link



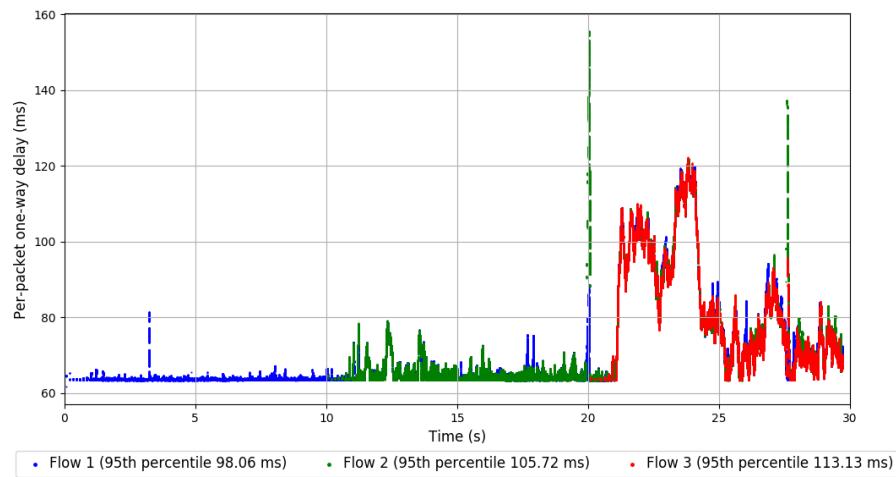
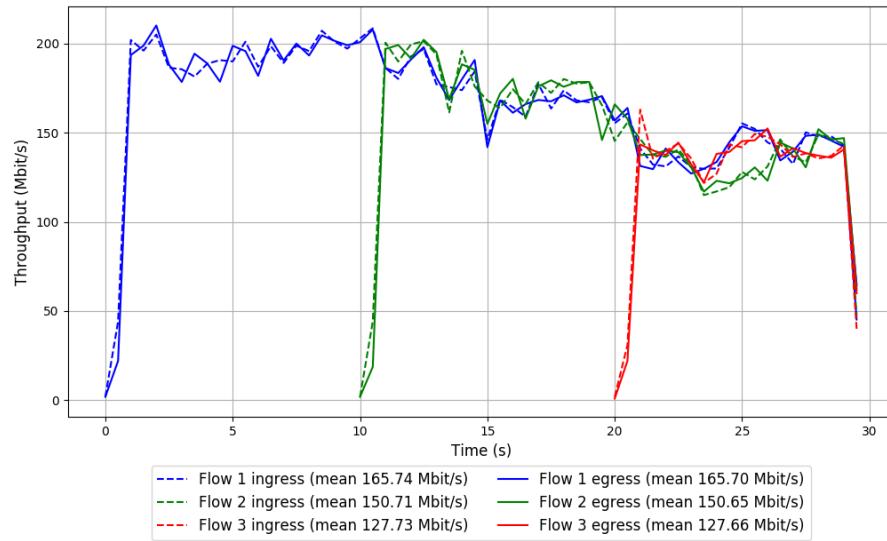
Run 7: Statistics of Indigo-1-32

Start at: 2018-04-18 23:51:14

End at: 2018-04-18 23:51:44

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.82 Mbit/s
95th percentile per-packet one-way delay: 104.257 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 165.70 Mbit/s
95th percentile per-packet one-way delay: 98.065 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 150.65 Mbit/s
95th percentile per-packet one-way delay: 105.718 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 127.66 Mbit/s
95th percentile per-packet one-way delay: 113.127 ms
Loss rate: 0.05%
```

Run 7: Report of Indigo-1-32 — Data Link



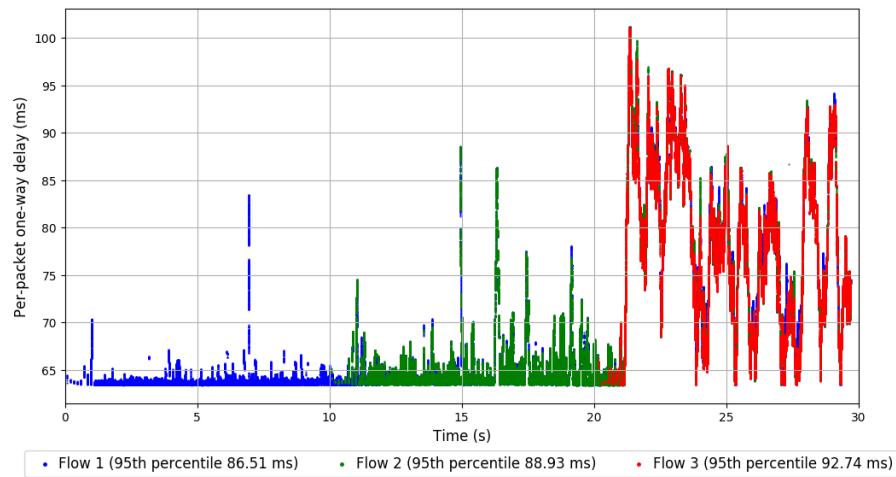
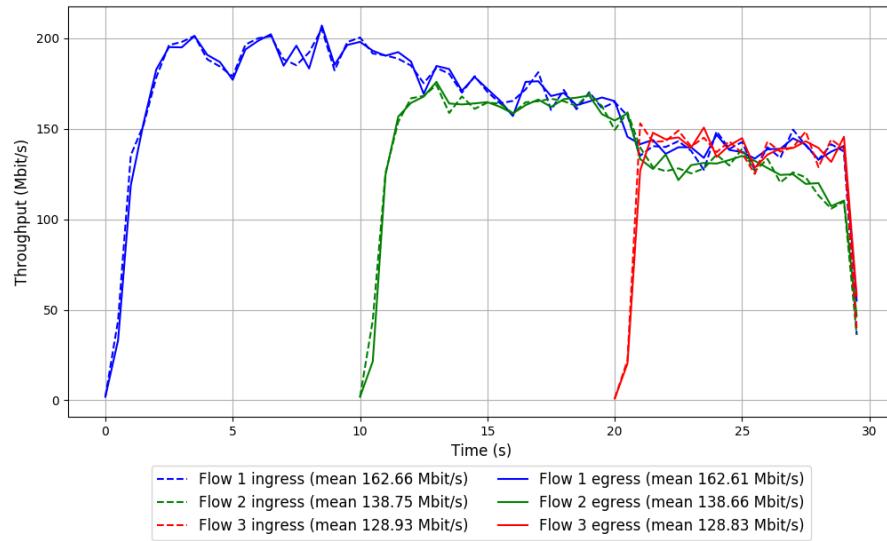
Run 8: Statistics of Indigo-1-32

Start at: 2018-04-19 00:07:02

End at: 2018-04-19 00:07:32

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.87 Mbit/s
95th percentile per-packet one-way delay: 89.078 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 162.61 Mbit/s
95th percentile per-packet one-way delay: 86.511 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 138.66 Mbit/s
95th percentile per-packet one-way delay: 88.934 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 128.83 Mbit/s
95th percentile per-packet one-way delay: 92.736 ms
Loss rate: 0.08%
```

Run 8: Report of Indigo-1-32 — Data Link



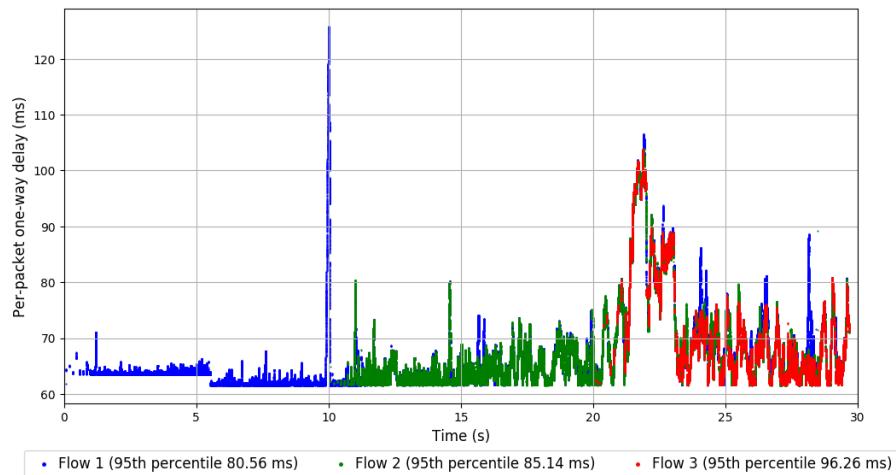
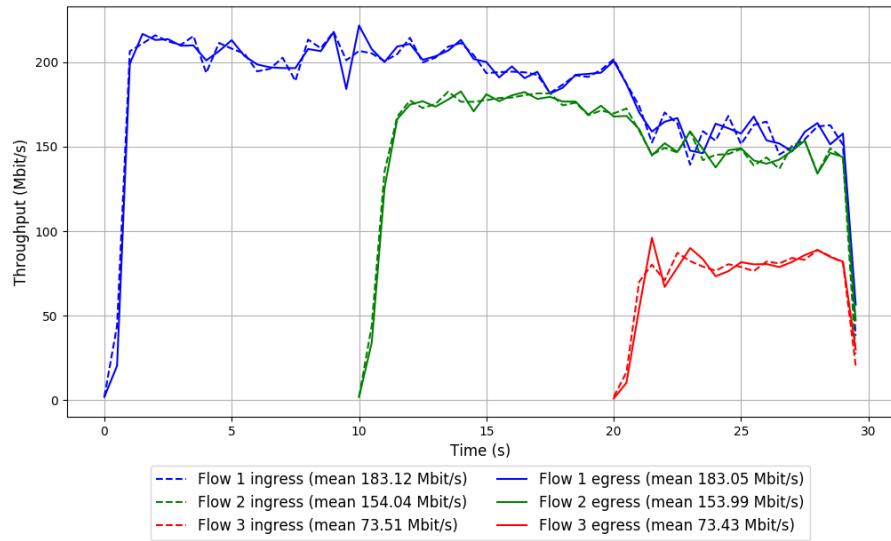
Run 9: Statistics of Indigo-1-32

Start at: 2018-04-19 00:22:35

End at: 2018-04-19 00:23:05

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.72 Mbit/s
95th percentile per-packet one-way delay: 84.736 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 183.05 Mbit/s
95th percentile per-packet one-way delay: 80.563 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 153.99 Mbit/s
95th percentile per-packet one-way delay: 85.143 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 73.43 Mbit/s
95th percentile per-packet one-way delay: 96.260 ms
Loss rate: 0.09%
```

Run 9: Report of Indigo-1-32 — Data Link

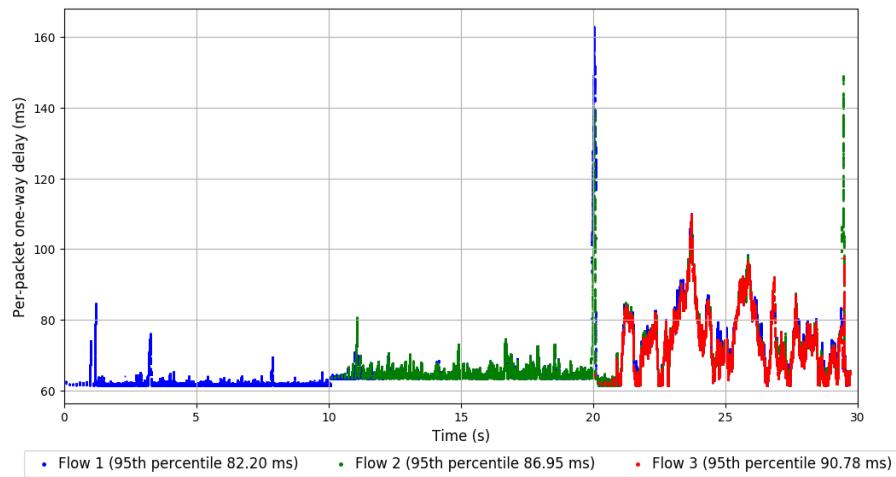
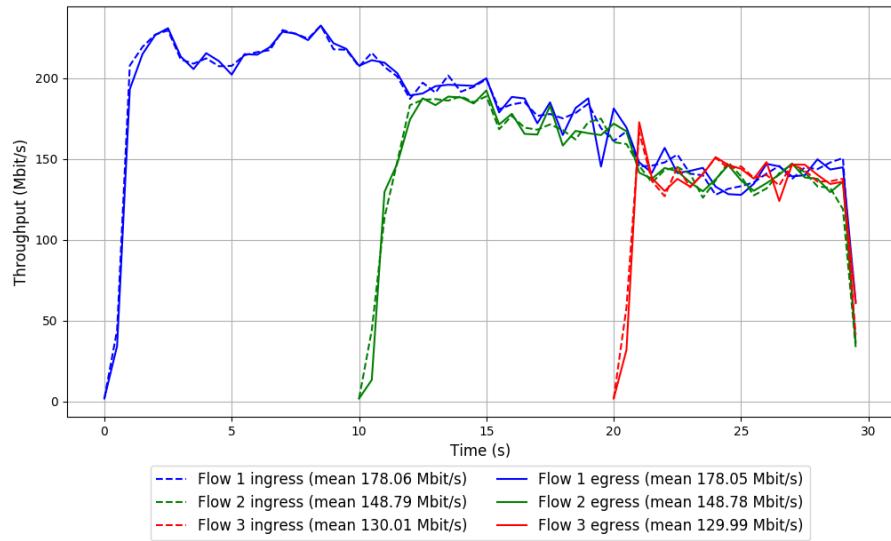


```
Run 10: Statistics of Indigo-1-32

Start at: 2018-04-19 00:38:00
End at: 2018-04-19 00:38:30

# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.64 Mbit/s
95th percentile per-packet one-way delay: 86.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.05 Mbit/s
95th percentile per-packet one-way delay: 82.197 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 148.78 Mbit/s
95th percentile per-packet one-way delay: 86.946 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 129.99 Mbit/s
95th percentile per-packet one-way delay: 90.784 ms
Loss rate: 0.02%
```

Run 10: Report of Indigo-1-32 — Data Link

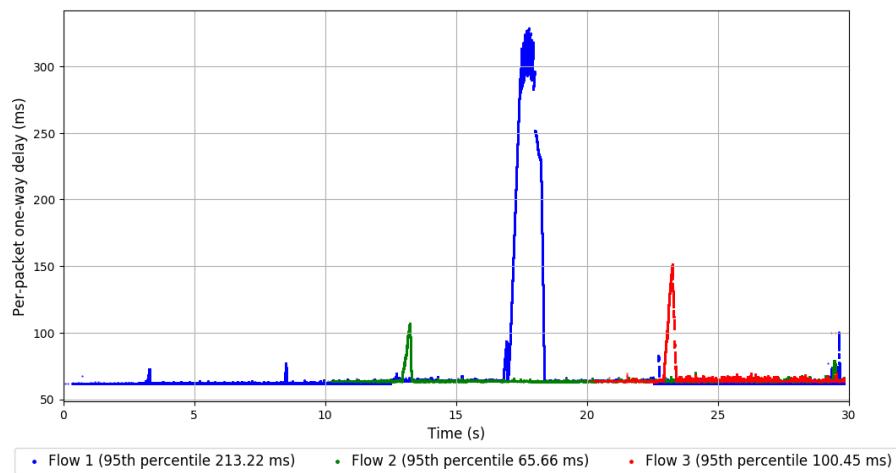
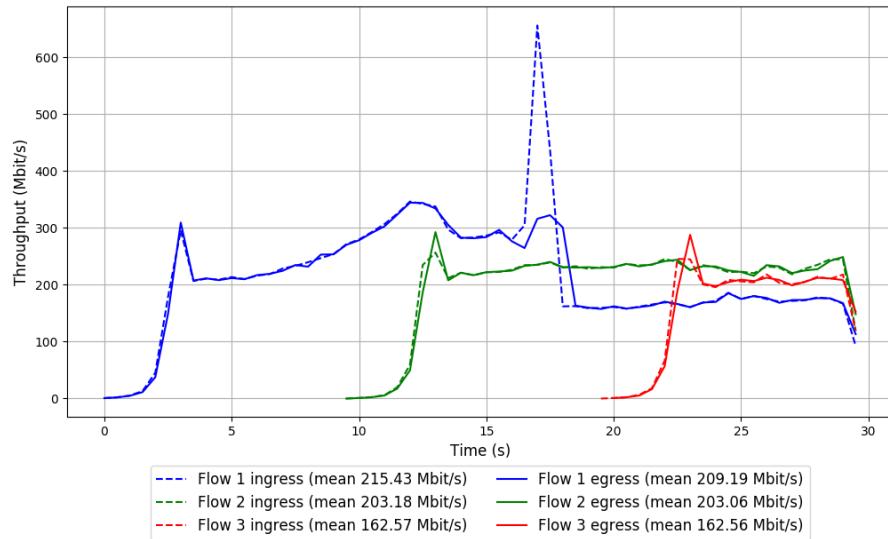


```
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-18 22:21:38
End at: 2018-04-18 22:22:08

# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.22 Mbit/s
95th percentile per-packet one-way delay: 88.605 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 209.19 Mbit/s
95th percentile per-packet one-way delay: 213.219 ms
Loss rate: 2.90%
-- Flow 2:
Average throughput: 203.06 Mbit/s
95th percentile per-packet one-way delay: 65.664 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 162.56 Mbit/s
95th percentile per-packet one-way delay: 100.449 ms
Loss rate: 0.04%
```

Run 1: Report of PCC-Vivace — Data Link



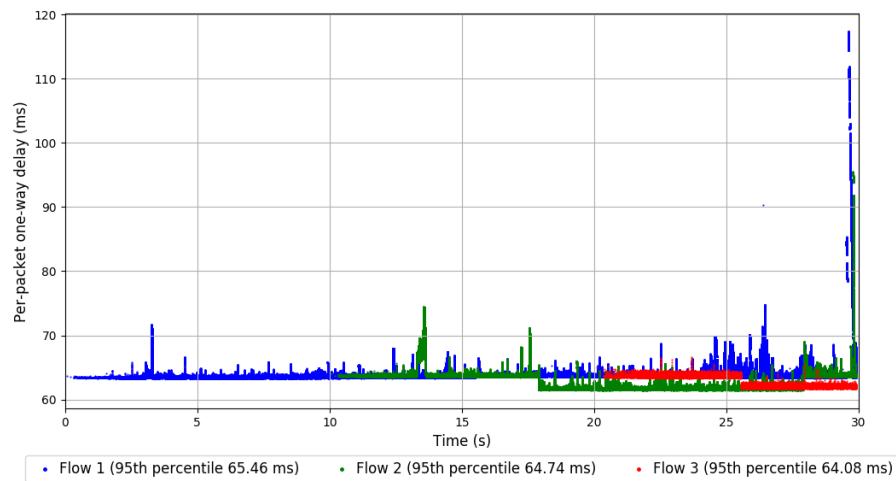
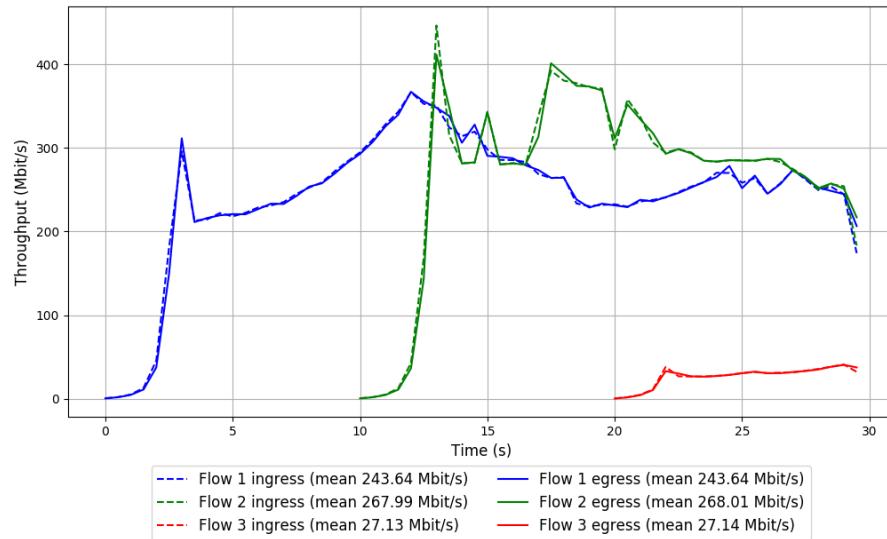
Run 2: Statistics of PCC-Vivace

Start at: 2018-04-18 22:37:13

End at: 2018-04-18 22:37:43

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 430.70 Mbit/s
95th percentile per-packet one-way delay: 65.215 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 243.64 Mbit/s
95th percentile per-packet one-way delay: 65.462 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 268.01 Mbit/s
95th percentile per-packet one-way delay: 64.737 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 64.076 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link



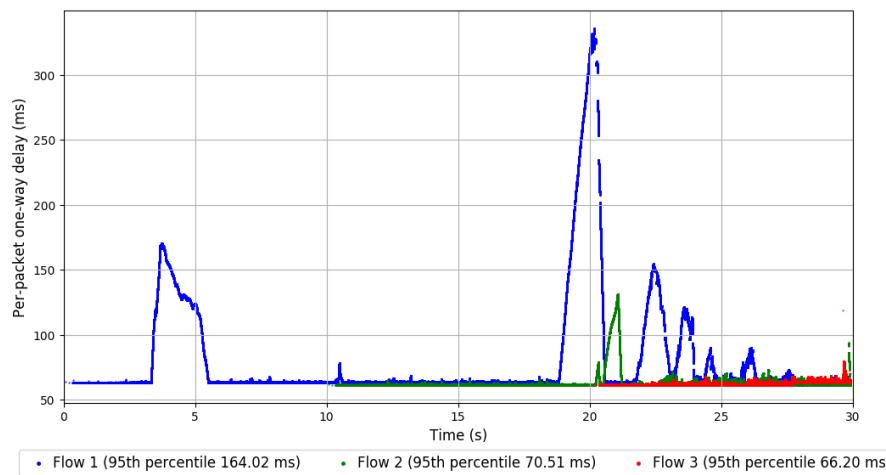
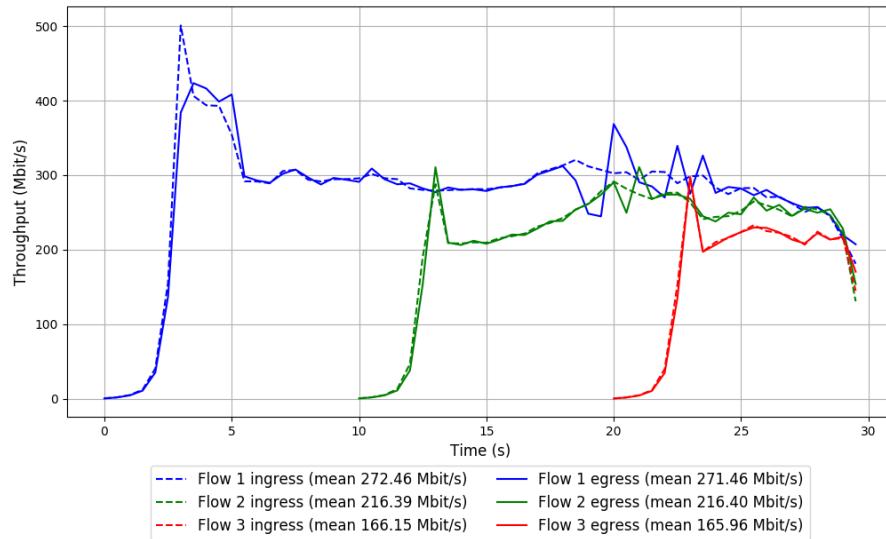
Run 3: Statistics of PCC-Vivace

Start at: 2018-04-18 22:53:03

End at: 2018-04-18 22:53:33

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 469.81 Mbit/s
95th percentile per-packet one-way delay: 142.043 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 271.46 Mbit/s
95th percentile per-packet one-way delay: 164.021 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 216.40 Mbit/s
95th percentile per-packet one-way delay: 70.514 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.96 Mbit/s
95th percentile per-packet one-way delay: 66.202 ms
Loss rate: 0.05%
```

Run 3: Report of PCC-Vivace — Data Link



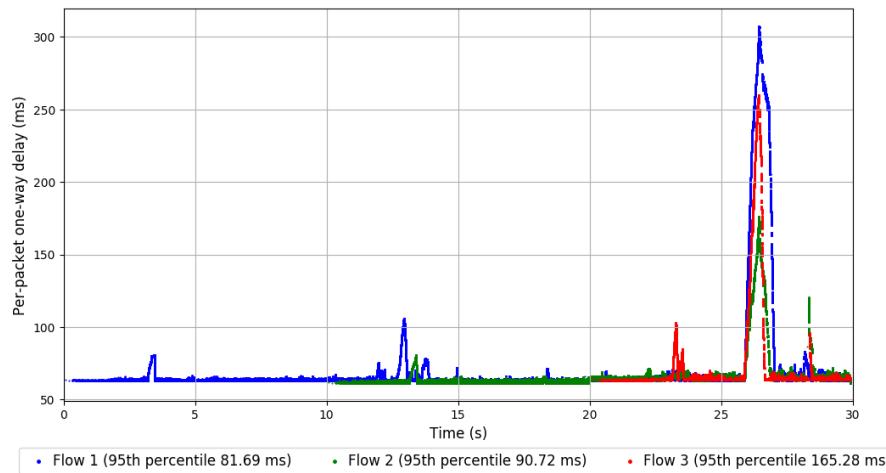
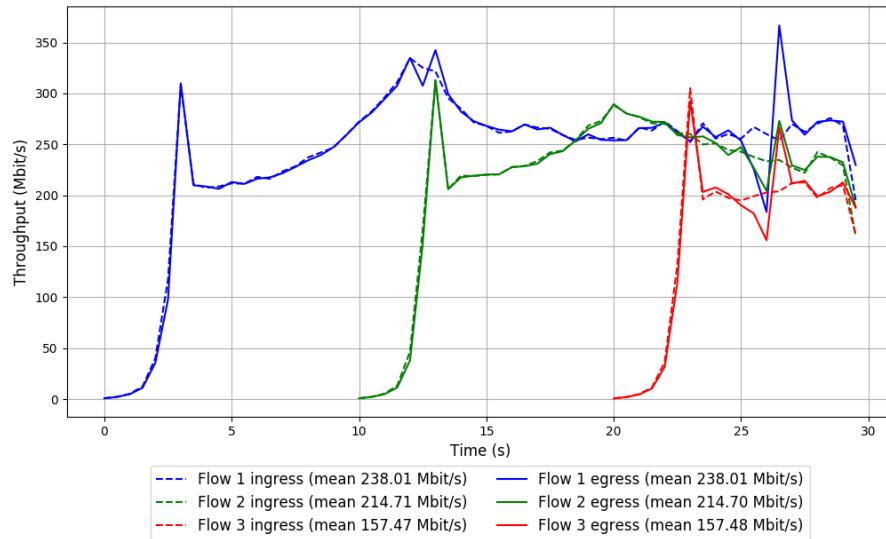
Run 4: Statistics of PCC-Vivace

Start at: 2018-04-18 23:08:38

End at: 2018-04-18 23:09:08

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 432.47 Mbit/s
95th percentile per-packet one-way delay: 96.281 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.01 Mbit/s
95th percentile per-packet one-way delay: 81.687 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 214.70 Mbit/s
95th percentile per-packet one-way delay: 90.718 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.48 Mbit/s
95th percentile per-packet one-way delay: 165.276 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

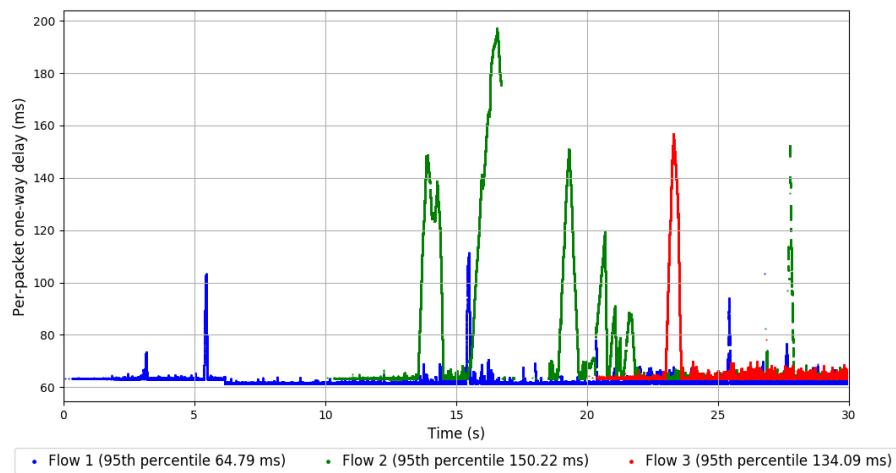
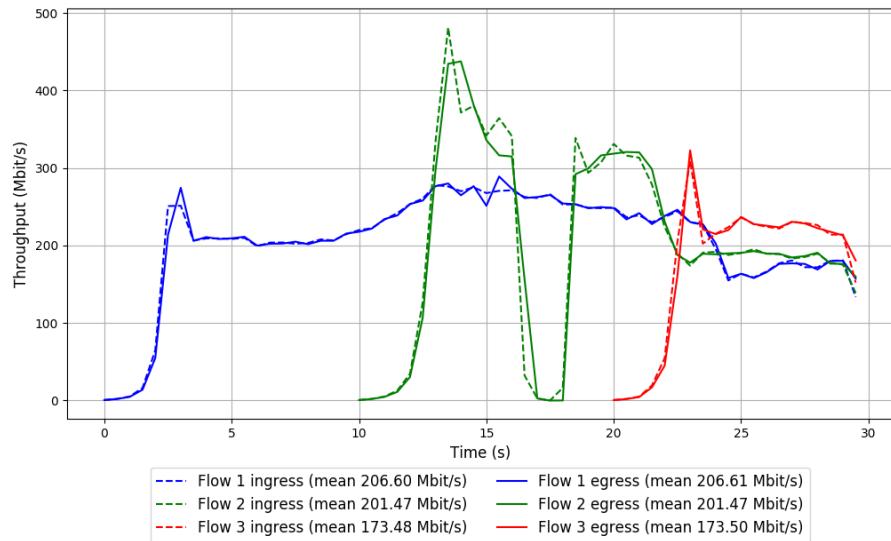


```
Run 5: Statistics of PCC-Vivace

Start at: 2018-04-18 23:24:12
End at: 2018-04-18 23:24:42

# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 397.71 Mbit/s
95th percentile per-packet one-way delay: 128.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.61 Mbit/s
95th percentile per-packet one-way delay: 64.791 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 201.47 Mbit/s
95th percentile per-packet one-way delay: 150.221 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 173.50 Mbit/s
95th percentile per-packet one-way delay: 134.091 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link



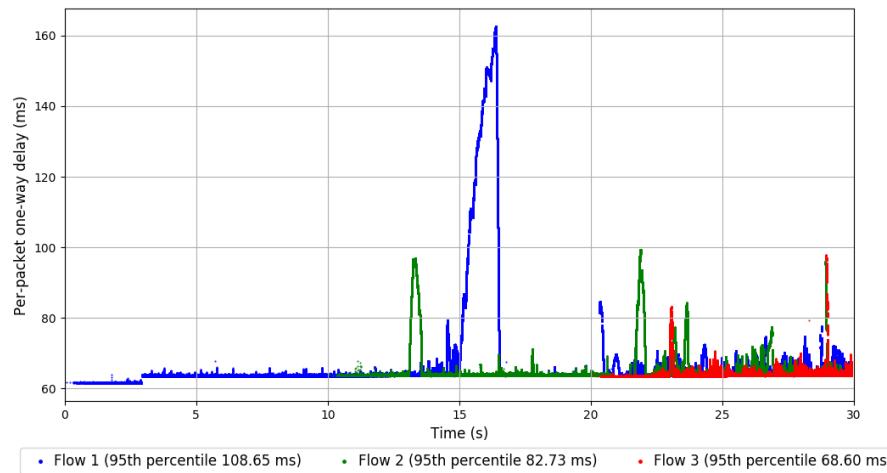
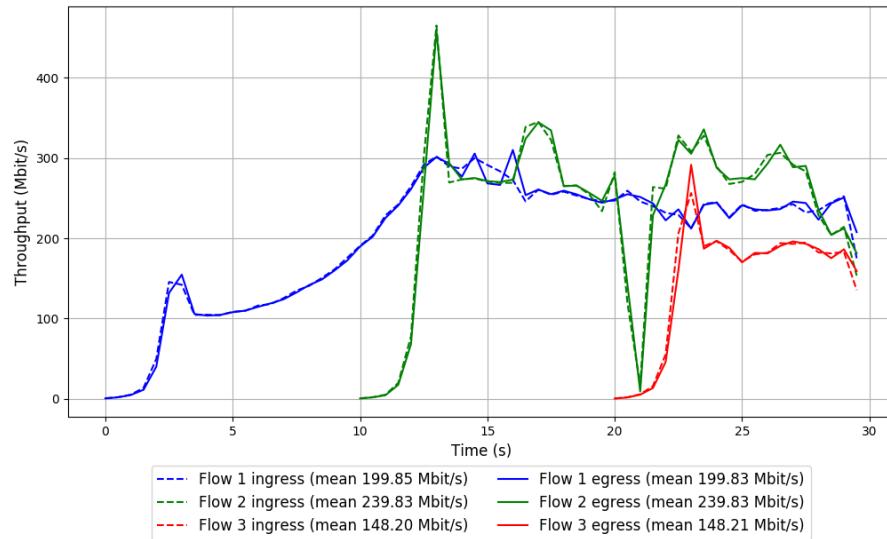
Run 6: Statistics of PCC-Vivace

Start at: 2018-04-18 23:39:56

End at: 2018-04-18 23:40:26

```
# Below is generated by plot.py at 2018-04-19 04:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 407.98 Mbit/s
95th percentile per-packet one-way delay: 83.732 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.83 Mbit/s
95th percentile per-packet one-way delay: 108.651 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 239.83 Mbit/s
95th percentile per-packet one-way delay: 82.733 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.21 Mbit/s
95th percentile per-packet one-way delay: 68.600 ms
Loss rate: 0.00%
```

Run 6: Report of PCC-Vivace — Data Link



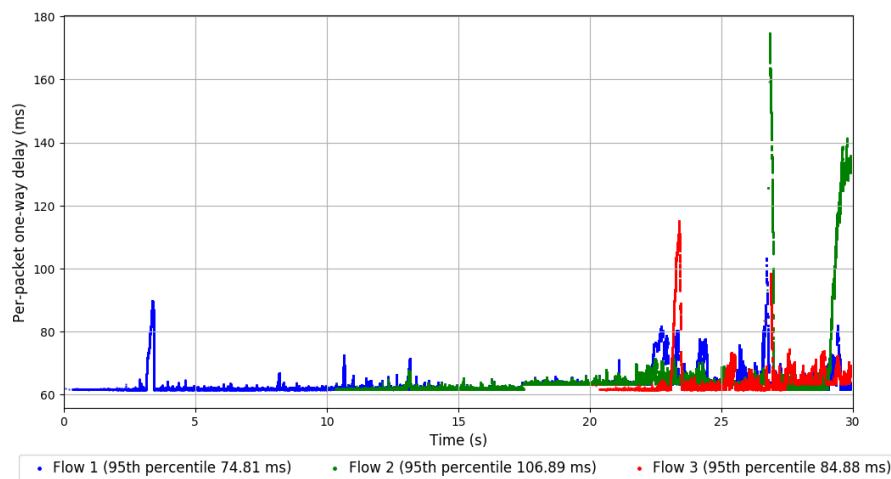
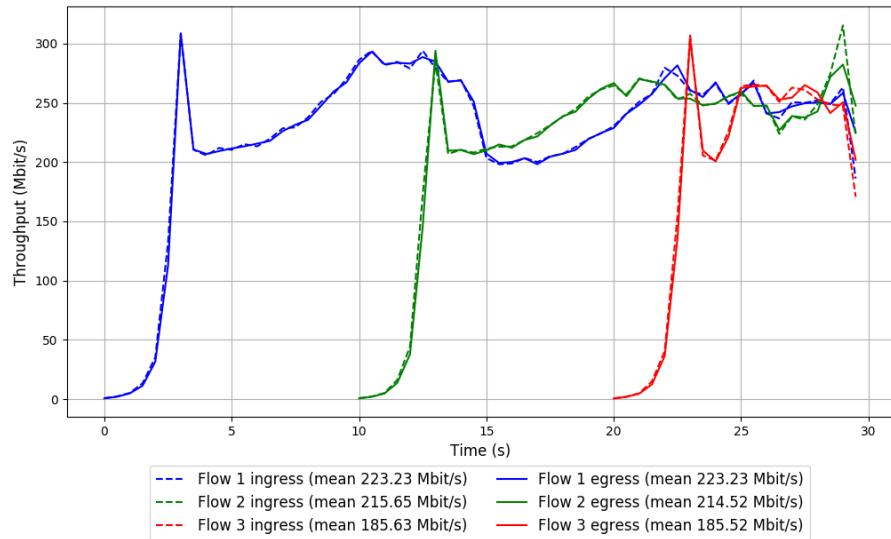
Run 7: Statistics of PCC-Vivace

Start at: 2018-04-18 23:55:31

End at: 2018-04-18 23:56:01

```
# Below is generated by plot.py at 2018-04-19 04:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 426.81 Mbit/s
95th percentile per-packet one-way delay: 76.094 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 223.23 Mbit/s
95th percentile per-packet one-way delay: 74.812 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 214.52 Mbit/s
95th percentile per-packet one-way delay: 106.893 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 185.52 Mbit/s
95th percentile per-packet one-way delay: 84.880 ms
Loss rate: 0.06%
```

Run 7: Report of PCC-Vivace — Data Link



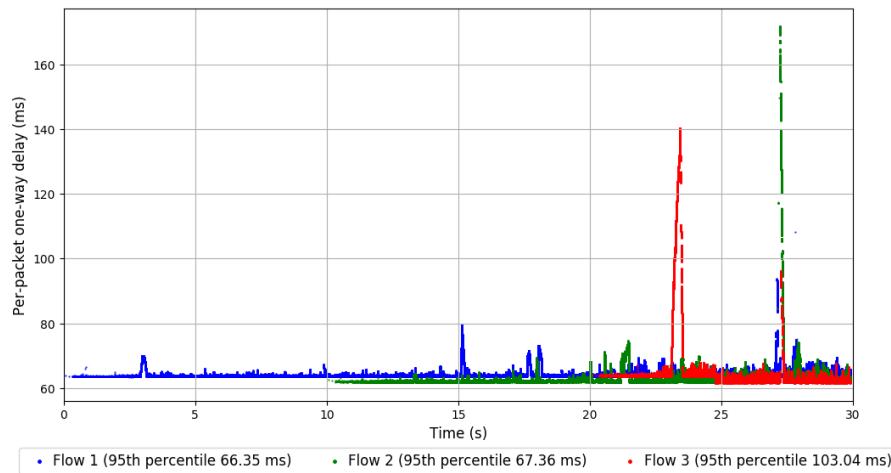
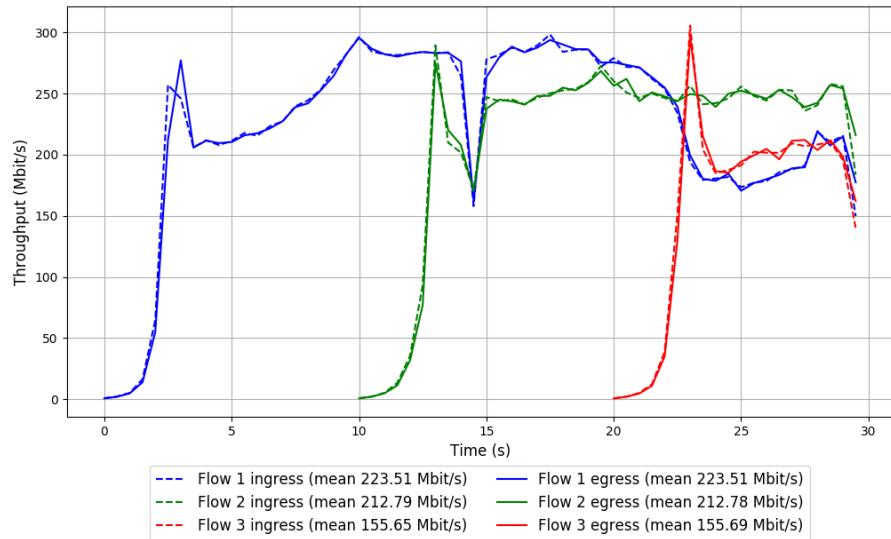
Run 8: Statistics of PCC-Vivace

Start at: 2018-04-19 00:11:16

End at: 2018-04-19 00:11:46

```
# Below is generated by plot.py at 2018-04-19 04:35:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 416.21 Mbit/s
95th percentile per-packet one-way delay: 67.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.51 Mbit/s
95th percentile per-packet one-way delay: 66.352 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 212.78 Mbit/s
95th percentile per-packet one-way delay: 67.358 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 155.69 Mbit/s
95th percentile per-packet one-way delay: 103.040 ms
Loss rate: 0.00%
```

Run 8: Report of PCC-Vivace — Data Link



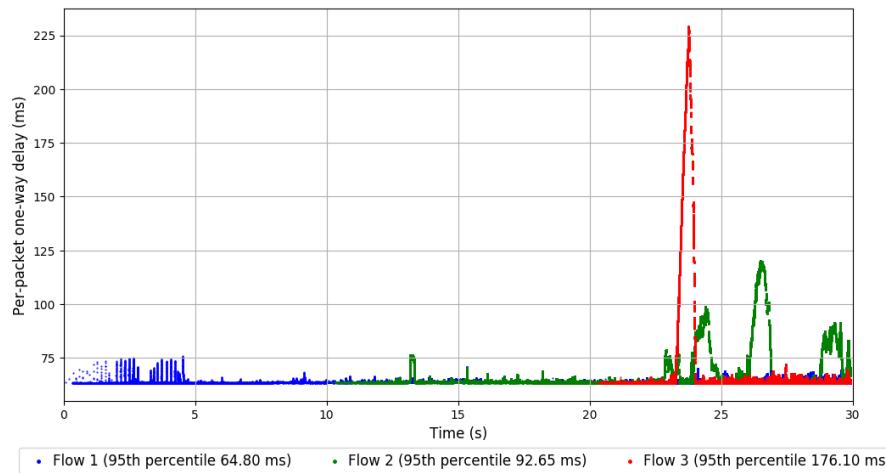
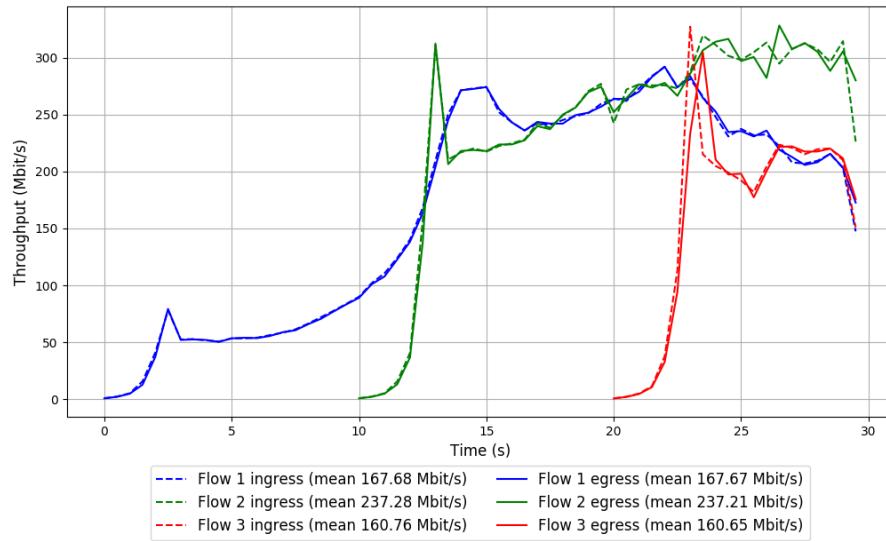
Run 9: Statistics of PCC-Vivace

Start at: 2018-04-19 00:26:51

End at: 2018-04-19 00:27:21

```
# Below is generated by plot.py at 2018-04-19 04:36:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.20 Mbit/s
95th percentile per-packet one-way delay: 87.038 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 167.67 Mbit/s
95th percentile per-packet one-way delay: 64.799 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 237.21 Mbit/s
95th percentile per-packet one-way delay: 92.650 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 160.65 Mbit/s
95th percentile per-packet one-way delay: 176.098 ms
Loss rate: 0.11%
```

Run 9: Report of PCC-Vivace — Data Link



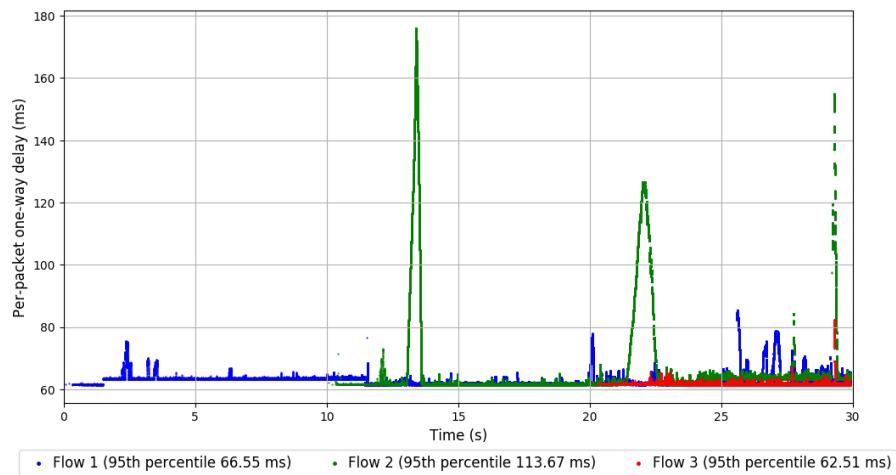
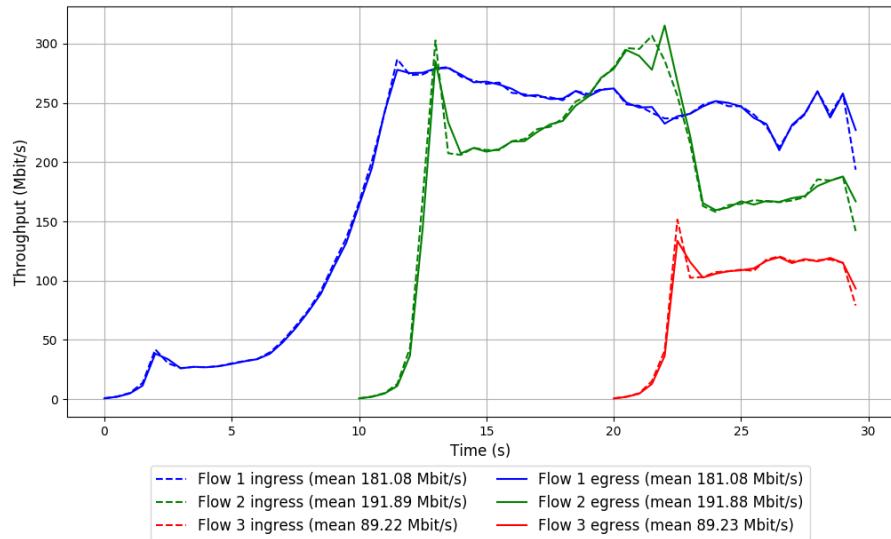
Run 10: Statistics of PCC-Vivace

Start at: 2018-04-19 00:42:17

End at: 2018-04-19 00:42:47

```
# Below is generated by plot.py at 2018-04-19 04:36:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.02 Mbit/s
95th percentile per-packet one-way delay: 76.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.08 Mbit/s
95th percentile per-packet one-way delay: 66.546 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 191.88 Mbit/s
95th percentile per-packet one-way delay: 113.667 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.23 Mbit/s
95th percentile per-packet one-way delay: 62.507 ms
Loss rate: 0.00%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-18 22:23:41

End at: 2018-04-18 22:24:11

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-18 22:39:13

End at: 2018-04-18 22:39:43

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-18 22:55:04

End at: 2018-04-18 22:55:34

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-18 23:10:41

End at: 2018-04-18 23:11:11

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-18 23:26:15

End at: 2018-04-18 23:26:45

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-18 23:41:55

End at: 2018-04-18 23:42:25

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-18 23:57:36

End at: 2018-04-18 23:58:06

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-19 00:13:19

End at: 2018-04-19 00:13:49

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-19 00:28:47

End at: 2018-04-19 00:29:18

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-19 00:44:12

End at: 2018-04-19 00:44:42

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing