

Pantheon Report

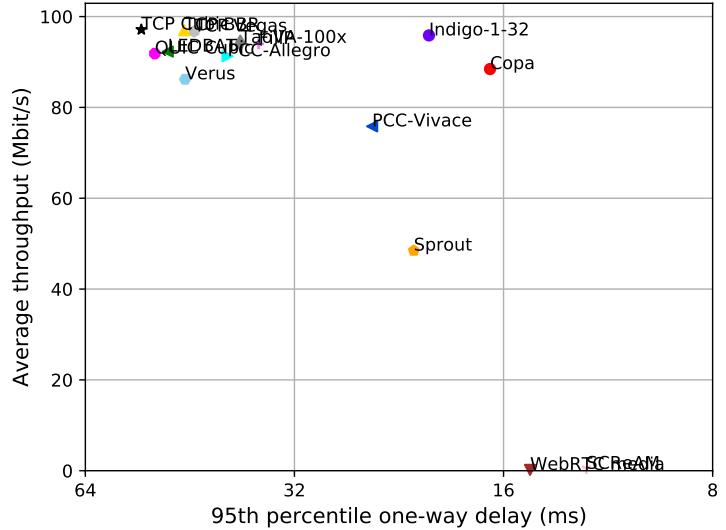
Generated at 2018-04-17 20:25:09 (UTC).
Data path: India Ethernet (*remote*) → AWS India 1 Ethernet (*local*).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).
NTP offsets were measured against nets.org.sg and have been applied to correct the timestamps in logs.

Git summary:

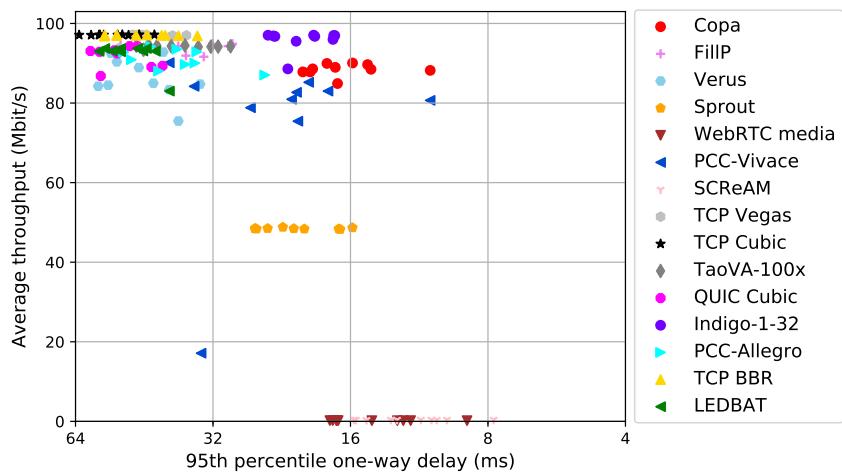
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
```

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

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



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

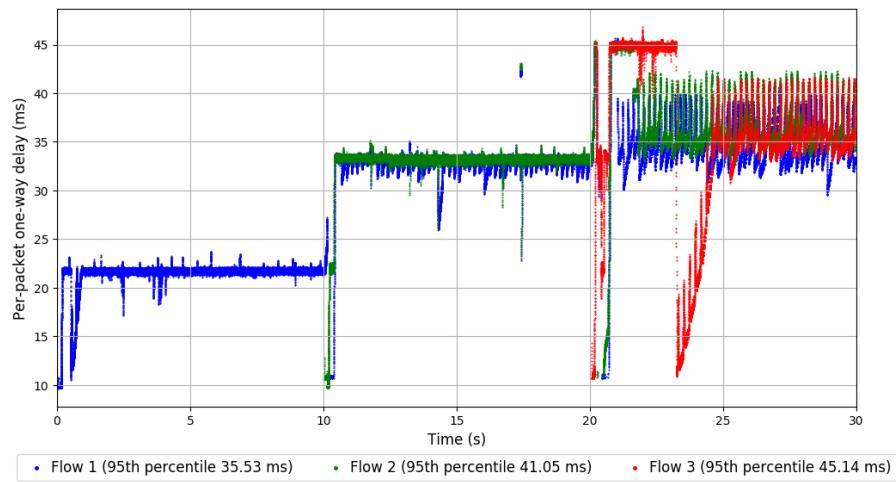
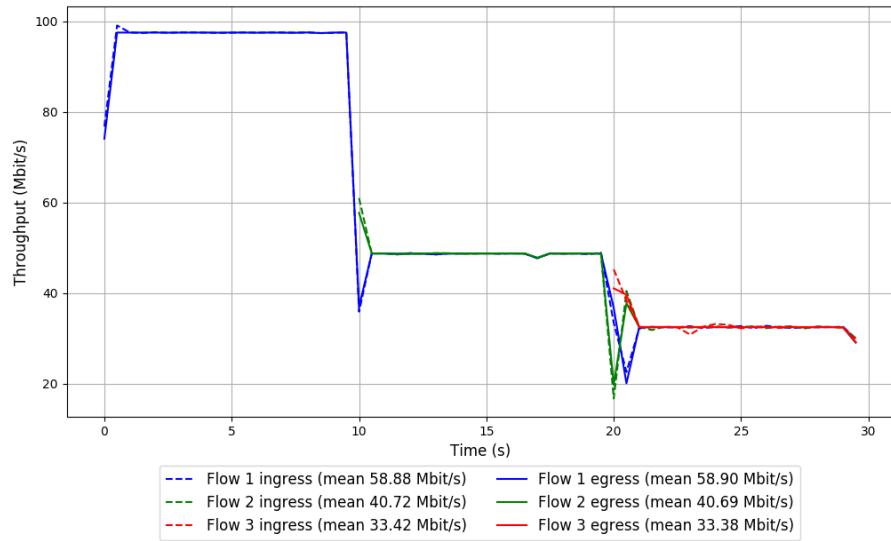


Run 1: Statistics of TCP BBR

```
Start at: 2018-04-17 13:23:09
End at: 2018-04-17 13:23:39
Local clock offset: -4.035 ms
Remote clock offset: -1.853 ms

# Below is generated by plot.py at 2018-04-17 20:00:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 40.715 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 35.529 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 41.049 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 45.137 ms
Loss rate: 0.46%
```

Run 1: Report of TCP BBR — Data Link

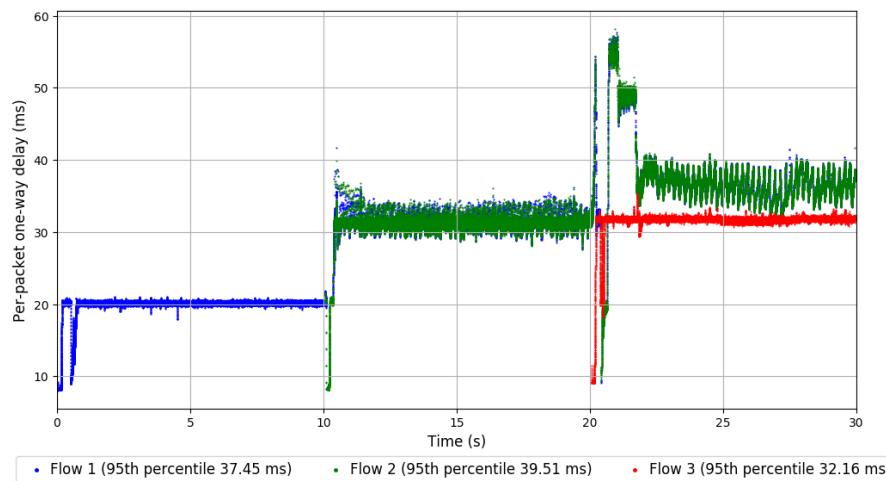
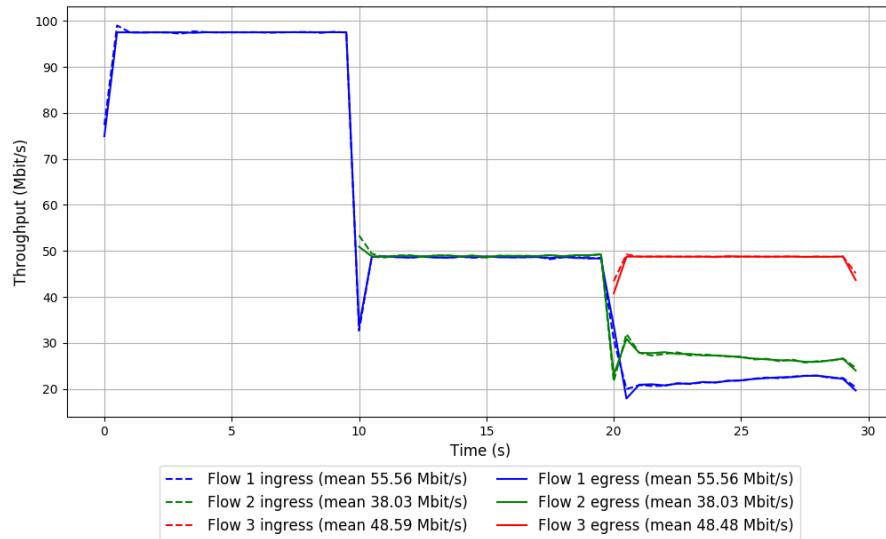


Run 2: Statistics of TCP BBR

```
Start at: 2018-04-17 13:43:28
End at: 2018-04-17 13:43:58
Local clock offset: -6.903 ms
Remote clock offset: -1.962 ms

# Below is generated by plot.py at 2018-04-17 20:00:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 38.076 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 55.56 Mbit/s
95th percentile per-packet one-way delay: 37.449 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 39.512 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 48.48 Mbit/s
95th percentile per-packet one-way delay: 32.162 ms
Loss rate: 0.48%
```

Run 2: Report of TCP BBR — Data Link

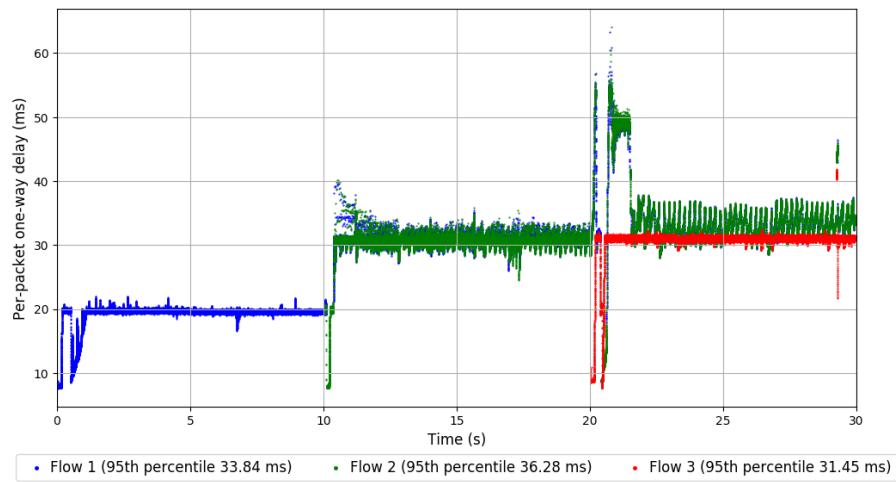
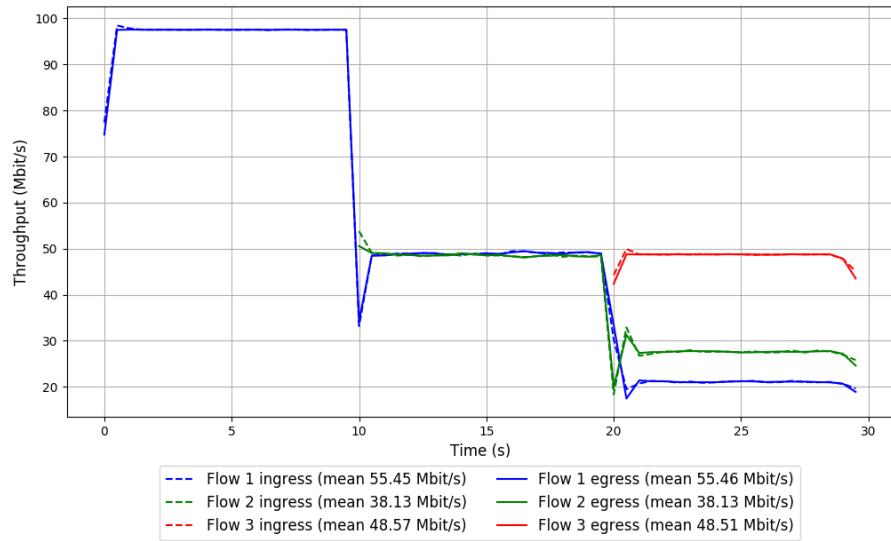


Run 3: Statistics of TCP BBR

```
Start at: 2018-04-17 14:04:00
End at: 2018-04-17 14:04:30
Local clock offset: -5.991 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-04-17 20:00:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 34.630 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 55.46 Mbit/s
95th percentile per-packet one-way delay: 33.844 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.13 Mbit/s
95th percentile per-packet one-way delay: 36.280 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 31.455 ms
Loss rate: 0.47%
```

Run 3: Report of TCP BBR — Data Link

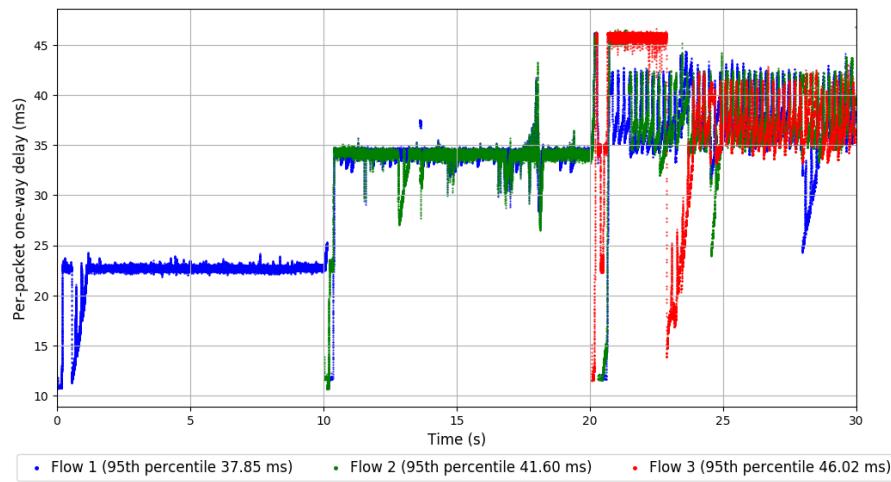
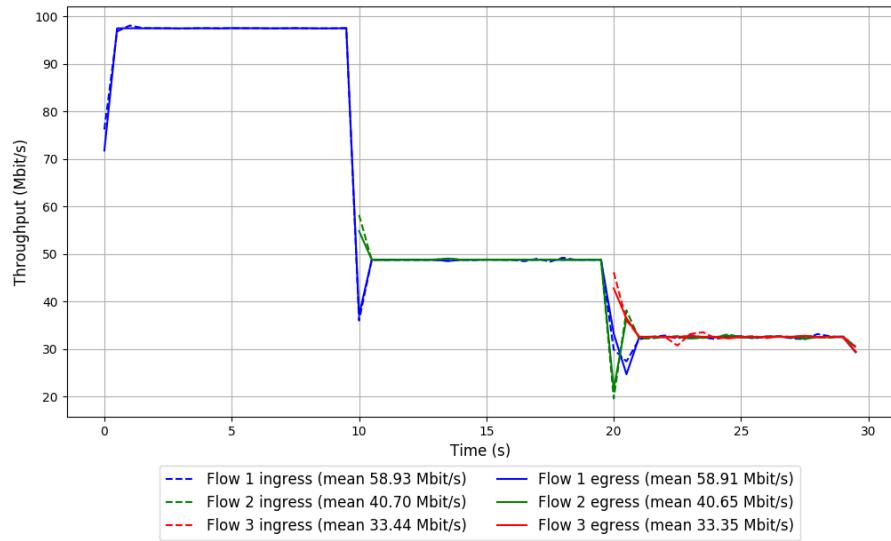


Run 4: Statistics of TCP BBR

```
Start at: 2018-04-17 14:24:45
End at: 2018-04-17 14:25:15
Local clock offset: -2.437 ms
Remote clock offset: -4.42 ms

# Below is generated by plot.py at 2018-04-17 20:00:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: 41.457 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 58.91 Mbit/s
95th percentile per-packet one-way delay: 37.852 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 41.604 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 33.35 Mbit/s
95th percentile per-packet one-way delay: 46.018 ms
Loss rate: 0.49%
```

Run 4: Report of TCP BBR — Data Link

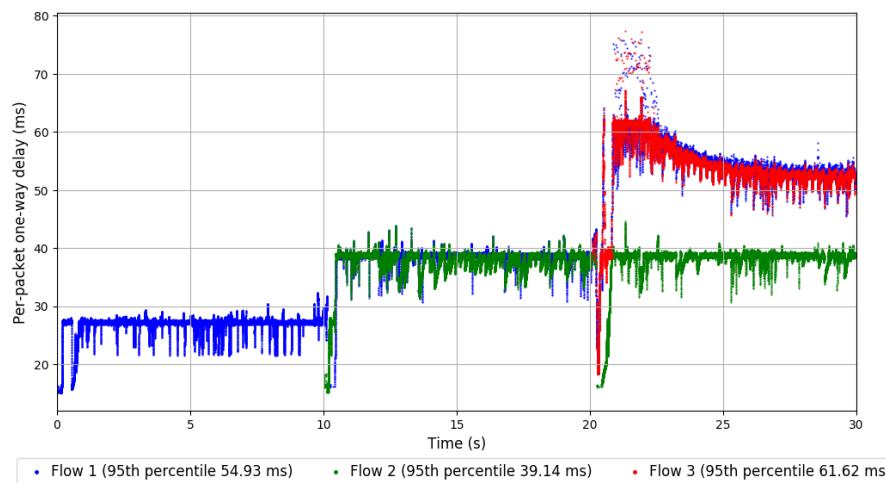
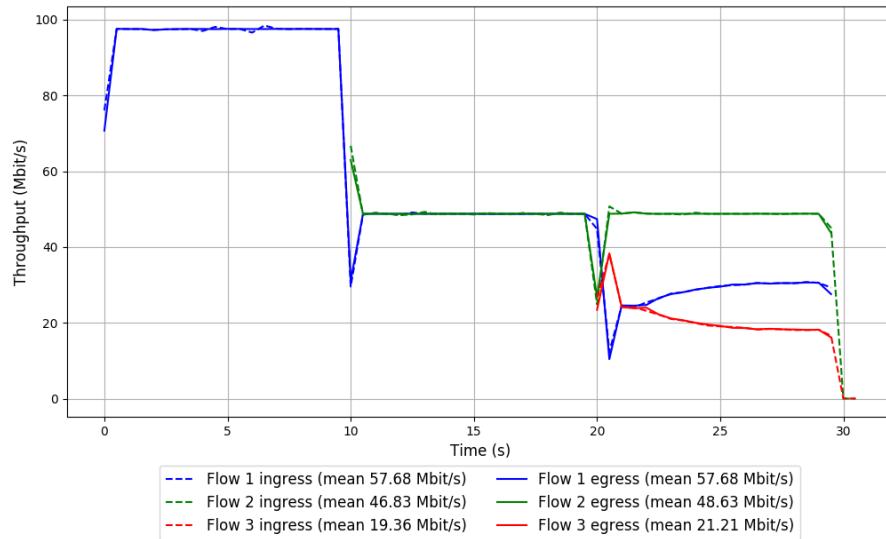


Run 5: Statistics of TCP BBR

```
Start at: 2018-04-17 14:45:36
End at: 2018-04-17 14:46:06
Local clock offset: -9.056 ms
Remote clock offset: -11.785 ms

# Below is generated by plot.py at 2018-04-17 20:00:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 55.204 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 57.68 Mbit/s
95th percentile per-packet one-way delay: 54.929 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 48.63 Mbit/s
95th percentile per-packet one-way delay: 39.144 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 21.21 Mbit/s
95th percentile per-packet one-way delay: 61.620 ms
Loss rate: 0.55%
```

Run 5: Report of TCP BBR — Data Link

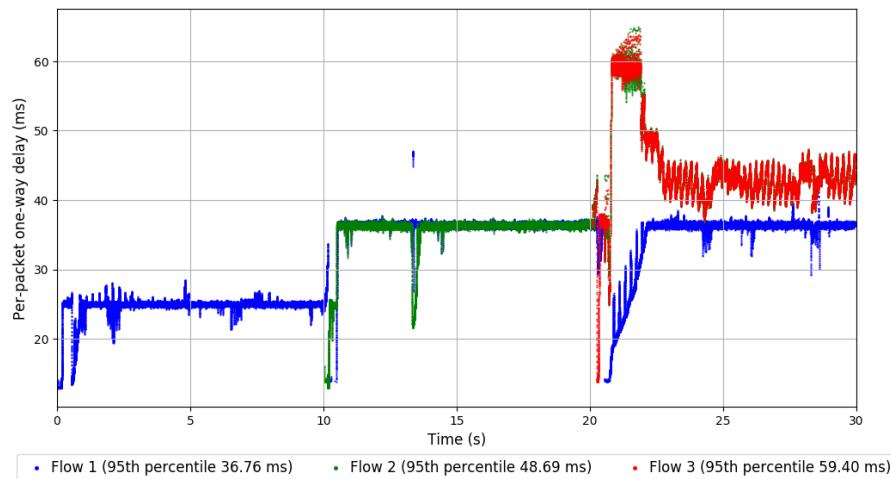
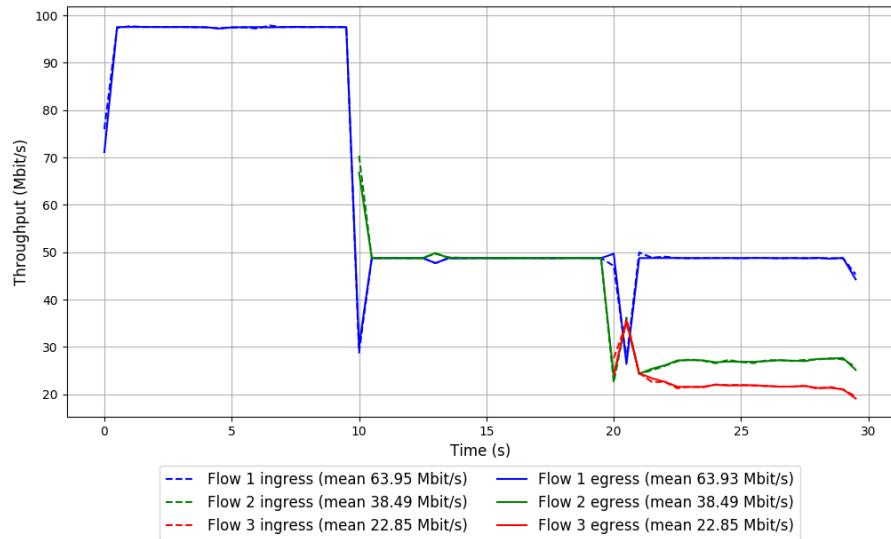


Run 6: Statistics of TCP BBR

```
Start at: 2018-04-17 15:08:07
End at: 2018-04-17 15:08:37
Local clock offset: -13.547 ms
Remote clock offset: -6.243 ms

# Below is generated by plot.py at 2018-04-17 20:00:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 44.600 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 63.93 Mbit/s
95th percentile per-packet one-way delay: 36.762 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 48.685 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 59.401 ms
Loss rate: 0.49%
```

Run 6: Report of TCP BBR — Data Link

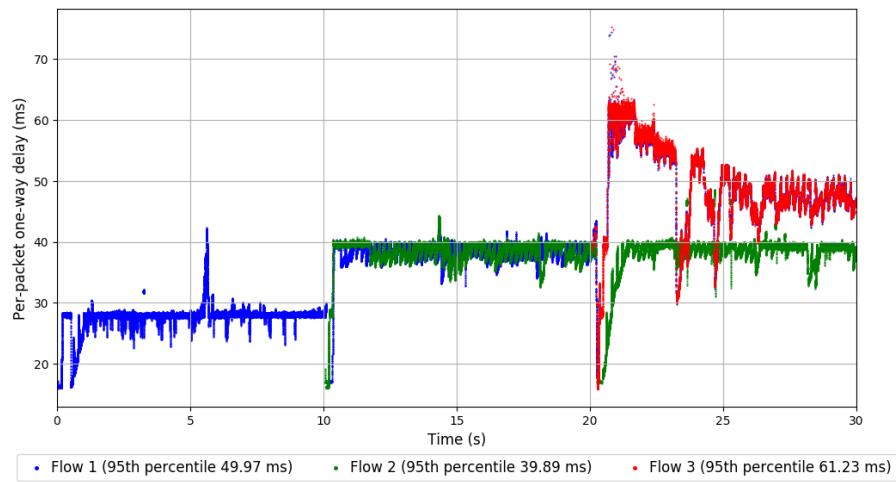
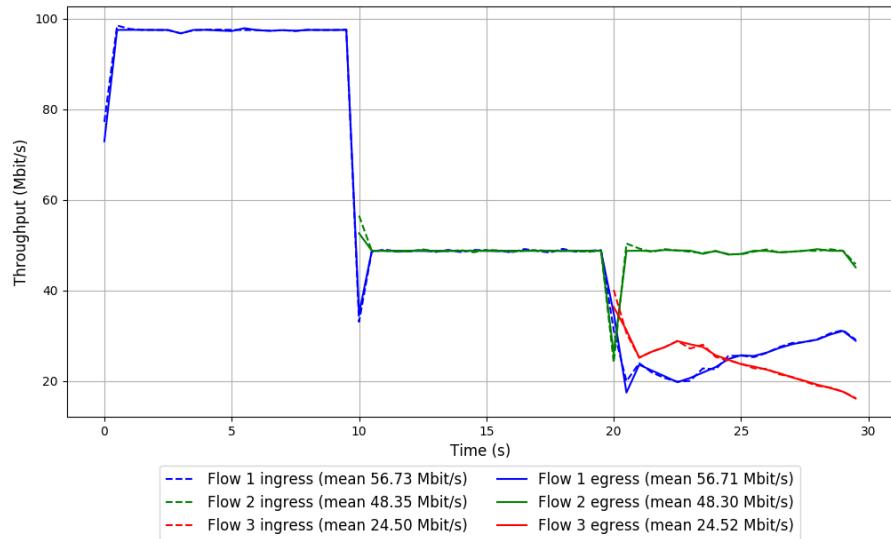


Run 7: Statistics of TCP BBR

```
Start at: 2018-04-17 15:30:00
End at: 2018-04-17 15:30:30
Local clock offset: -10.159 ms
Remote clock offset: -9.447 ms

# Below is generated by plot.py at 2018-04-17 20:00:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 52.034 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 56.71 Mbit/s
95th percentile per-packet one-way delay: 49.974 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 39.888 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 61.227 ms
Loss rate: 0.38%
```

Run 7: Report of TCP BBR — Data Link

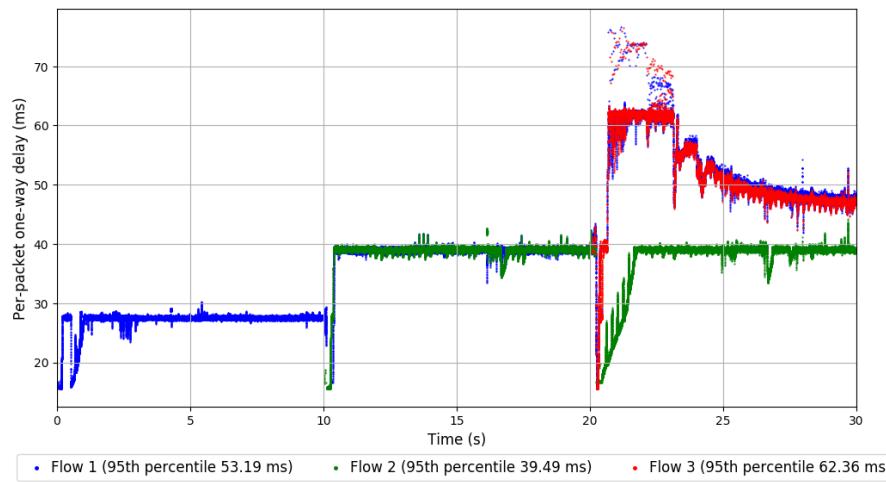
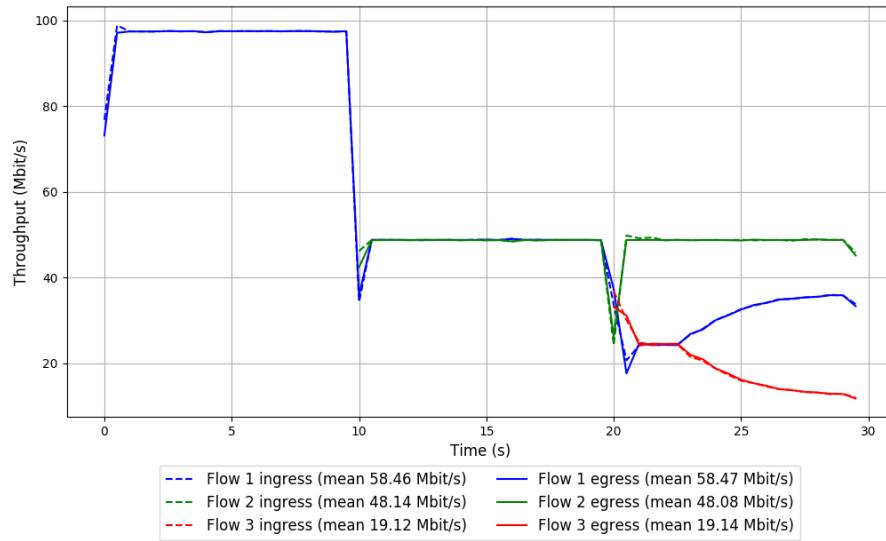


Run 8: Statistics of TCP BBR

```
Start at: 2018-04-17 15:51:29
End at: 2018-04-17 15:51:59
Local clock offset: -11.733 ms
Remote clock offset: -15.072 ms

# Below is generated by plot.py at 2018-04-17 20:00:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 55.315 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 58.47 Mbit/s
95th percentile per-packet one-way delay: 53.187 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.08 Mbit/s
95th percentile per-packet one-way delay: 39.487 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 62.359 ms
Loss rate: 0.38%
```

Run 8: Report of TCP BBR — Data Link

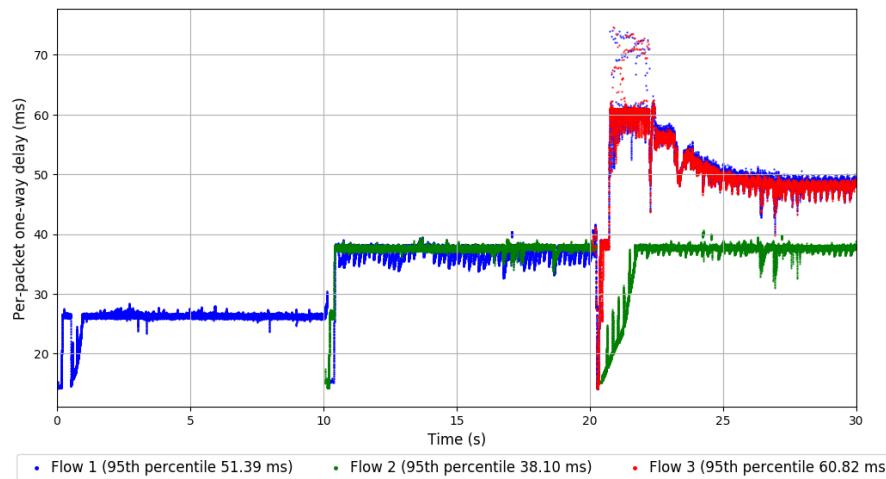
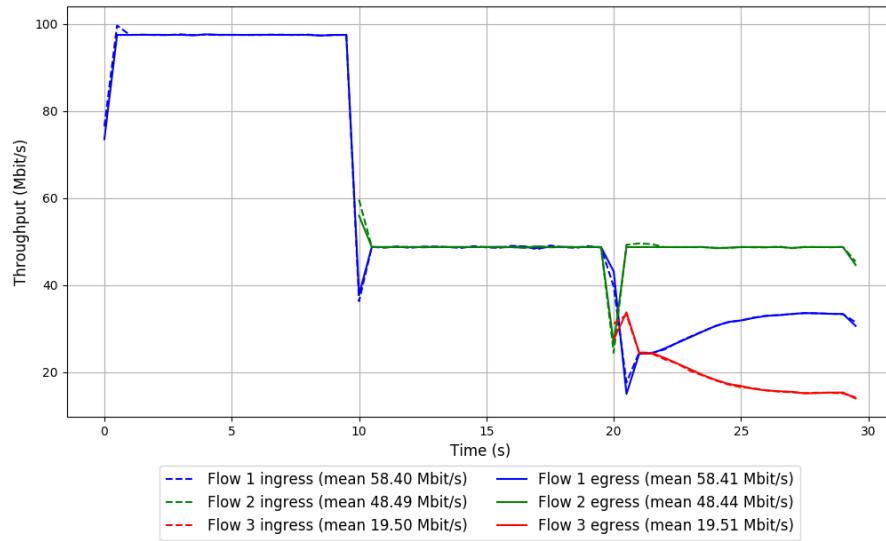


Run 9: Statistics of TCP BBR

```
Start at: 2018-04-17 16:13:33
End at: 2018-04-17 16:14:03
Local clock offset: -12.562 ms
Remote clock offset: -9.86 ms

# Below is generated by plot.py at 2018-04-17 20:02:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 51.959 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 51.388 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.44 Mbit/s
95th percentile per-packet one-way delay: 38.100 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 19.51 Mbit/s
95th percentile per-packet one-way delay: 60.817 ms
Loss rate: 0.41%
```

Run 9: Report of TCP BBR — Data Link

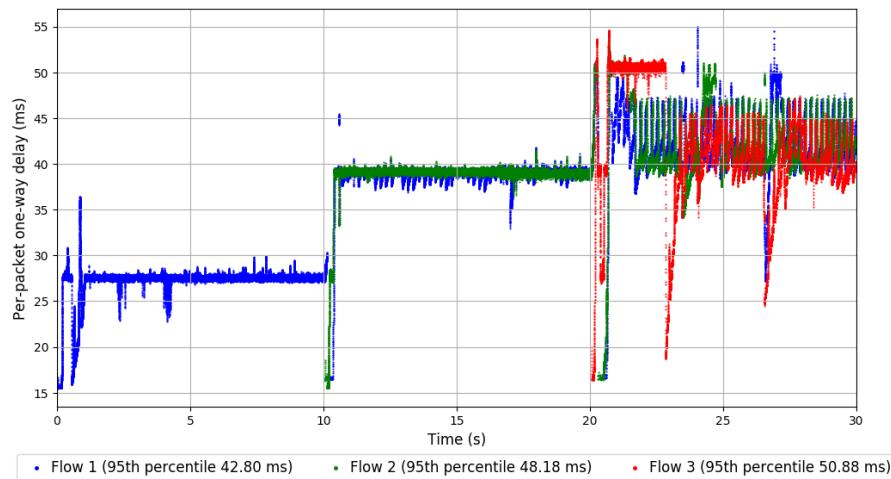
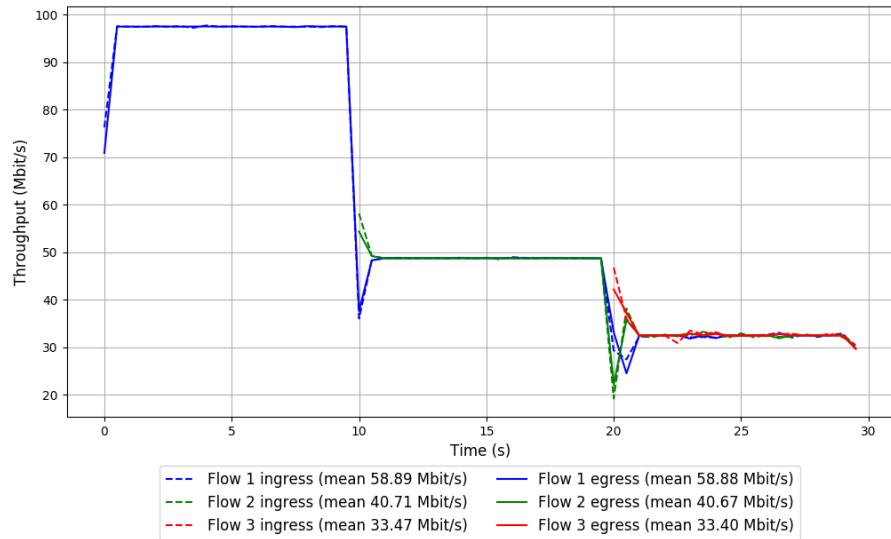


Run 10: Statistics of TCP BBR

```
Start at: 2018-04-17 16:35:21
End at: 2018-04-17 16:35:51
Local clock offset: -6.756 ms
Remote clock offset: -10.294 ms

# Below is generated by plot.py at 2018-04-17 20:02:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: 47.137 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 58.88 Mbit/s
95th percentile per-packet one-way delay: 42.798 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 48.181 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 33.40 Mbit/s
95th percentile per-packet one-way delay: 50.877 ms
Loss rate: 0.48%
```

Run 10: Report of TCP BBR — Data Link

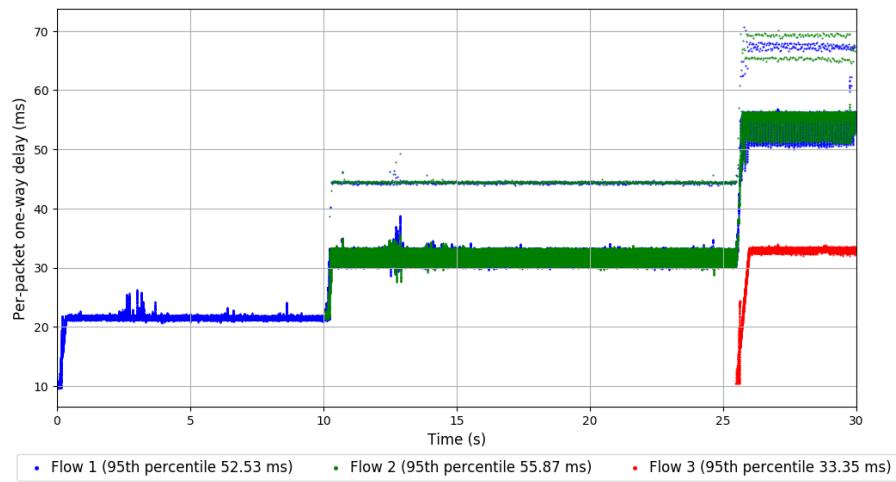
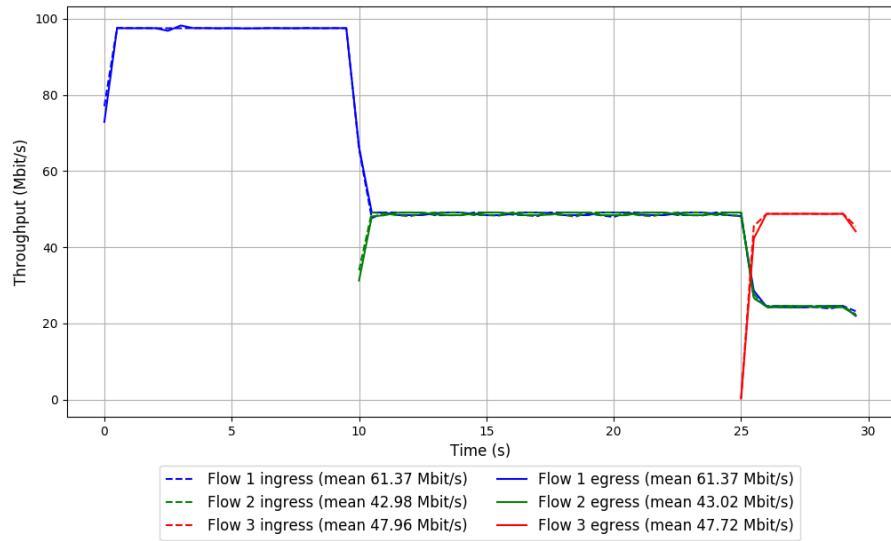


```
Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 13:12:16
End at: 2018-04-17 13:12:46
Local clock offset: -6.091 ms
Remote clock offset: -2.245 ms

# Below is generated by plot.py at 2018-04-17 20:02:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 55.486 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 52.533 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 43.02 Mbit/s
95th percentile per-packet one-way delay: 55.871 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 47.72 Mbit/s
95th percentile per-packet one-way delay: 33.350 ms
Loss rate: 1.05%
```

Run 1: Report of TCP Cubic — Data Link

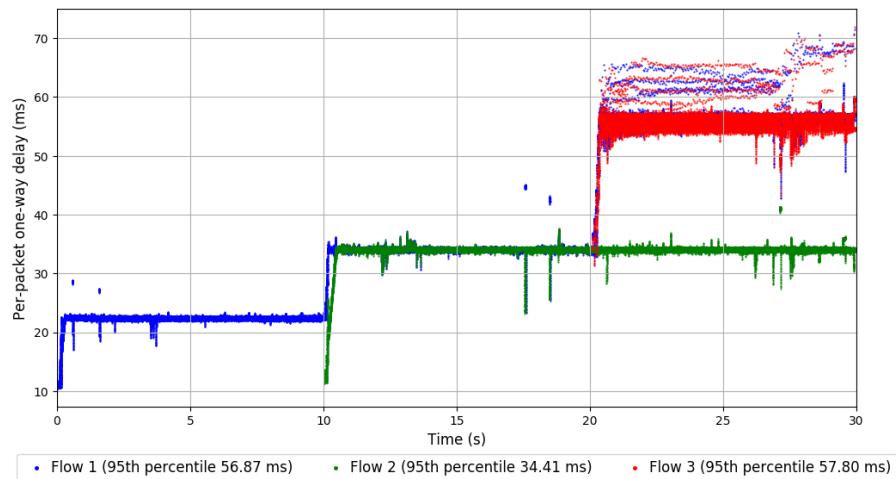
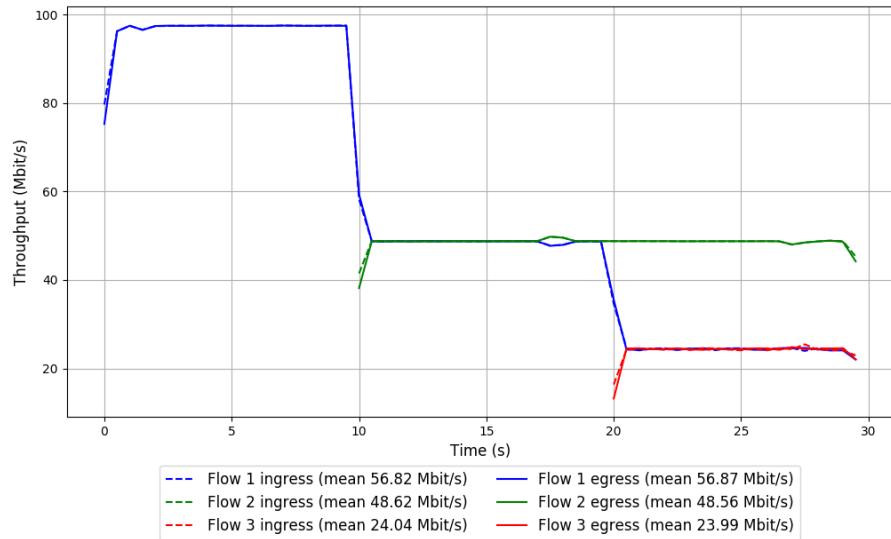


Run 2: Statistics of TCP Cubic

```
Start at: 2018-04-17 13:32:40
End at: 2018-04-17 13:33:10
Local clock offset: -3.882 ms
Remote clock offset: -1.842 ms

# Below is generated by plot.py at 2018-04-17 20:02:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 56.860 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.87 Mbit/s
95th percentile per-packet one-way delay: 56.867 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.56 Mbit/s
95th percentile per-packet one-way delay: 34.408 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 57.802 ms
Loss rate: 0.66%
```

Run 2: Report of TCP Cubic — Data Link

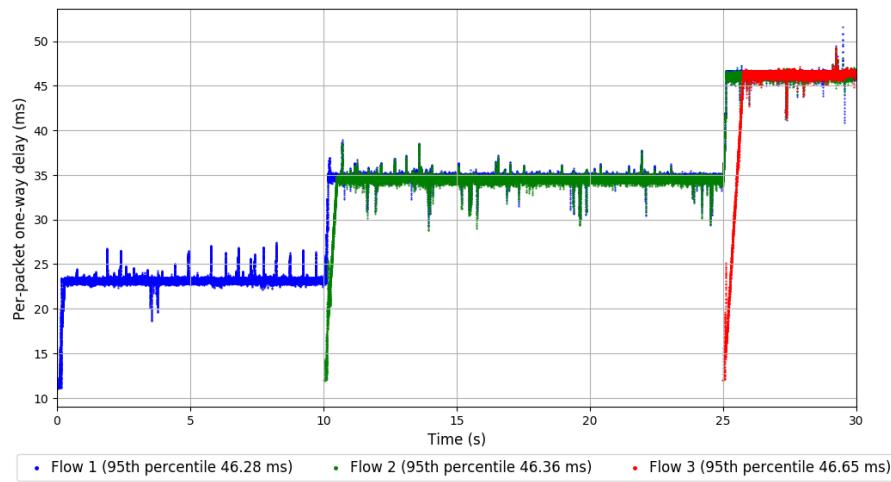
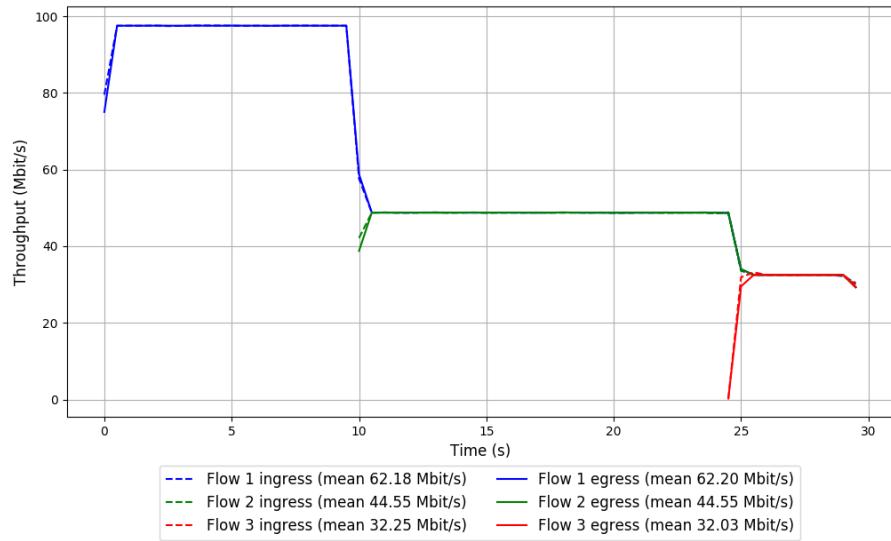


Run 3: Statistics of TCP Cubic

```
Start at: 2018-04-17 13:53:00
End at: 2018-04-17 13:53:30
Local clock offset: -5.134 ms
Remote clock offset: -2.101 ms

# Below is generated by plot.py at 2018-04-17 20:02:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 46.406 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 62.20 Mbit/s
95th percentile per-packet one-way delay: 46.283 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 44.55 Mbit/s
95th percentile per-packet one-way delay: 46.356 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 32.03 Mbit/s
95th percentile per-packet one-way delay: 46.652 ms
Loss rate: 1.15%
```

Run 3: Report of TCP Cubic — Data Link

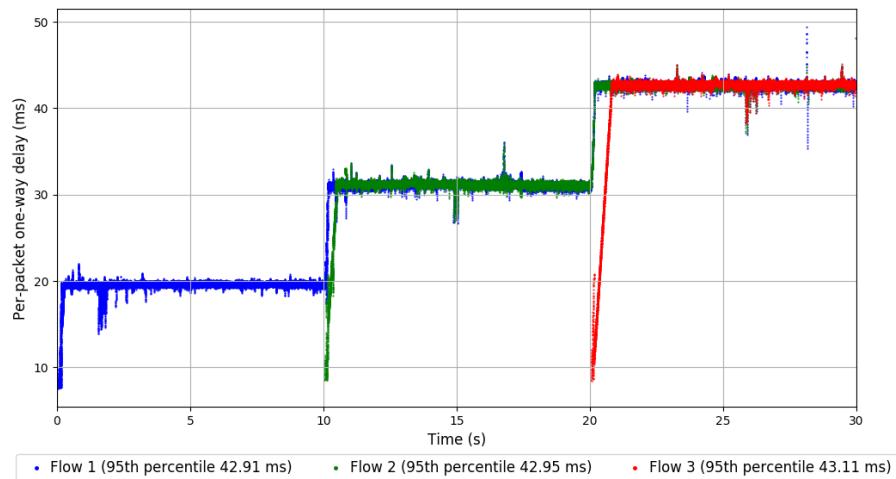
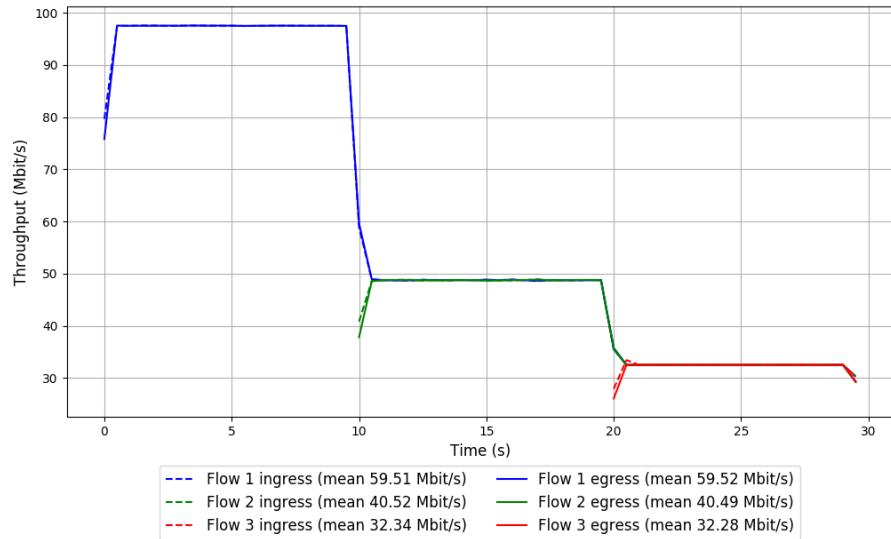


Run 4: Statistics of TCP Cubic

```
Start at: 2018-04-17 14:13:40
End at: 2018-04-17 14:14:10
Local clock offset: -5.494 ms
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2018-04-17 20:02:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 42.995 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.52 Mbit/s
95th percentile per-packet one-way delay: 42.908 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 42.947 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 32.28 Mbit/s
95th percentile per-packet one-way delay: 43.106 ms
Loss rate: 0.59%
```

Run 4: Report of TCP Cubic — Data Link

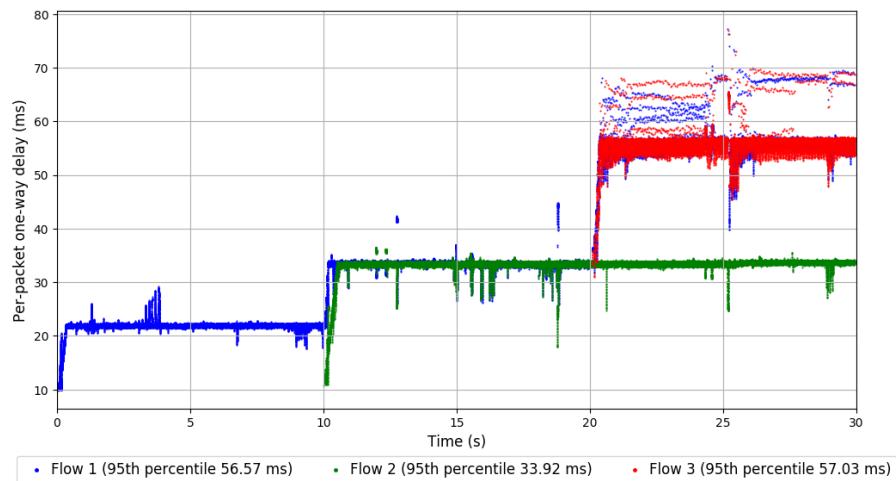
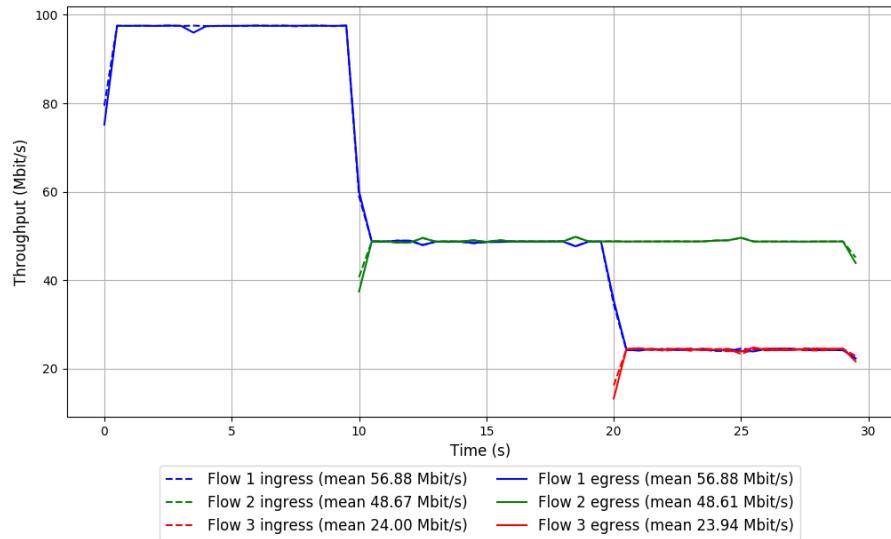


Run 5: Statistics of TCP Cubic

```
Start at: 2018-04-17 14:34:31
End at: 2018-04-17 14:35:01
Local clock offset: -6.213 ms
Remote clock offset: -5.929 ms

# Below is generated by plot.py at 2018-04-17 20:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 56.596 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 56.574 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 48.61 Mbit/s
95th percentile per-packet one-way delay: 33.921 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 23.94 Mbit/s
95th percentile per-packet one-way delay: 57.026 ms
Loss rate: 0.73%
```

Run 5: Report of TCP Cubic — Data Link

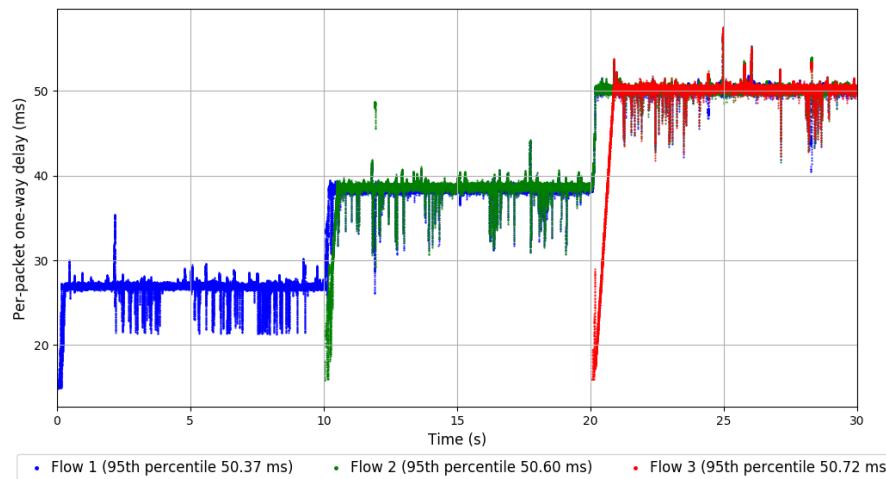
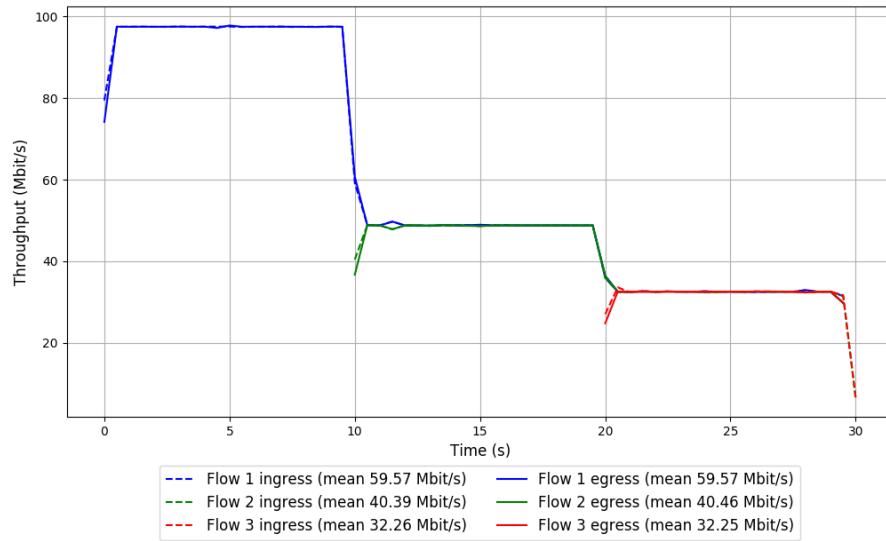


Run 6: Statistics of TCP Cubic

```
Start at: 2018-04-17 14:56:08
End at: 2018-04-17 14:56:38
Local clock offset: -11.204 ms
Remote clock offset: -8.684 ms

# Below is generated by plot.py at 2018-04-17 20:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 50.542 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 59.57 Mbit/s
95th percentile per-packet one-way delay: 50.372 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 50.597 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 50.719 ms
Loss rate: 1.79%
```

Run 6: Report of TCP Cubic — Data Link

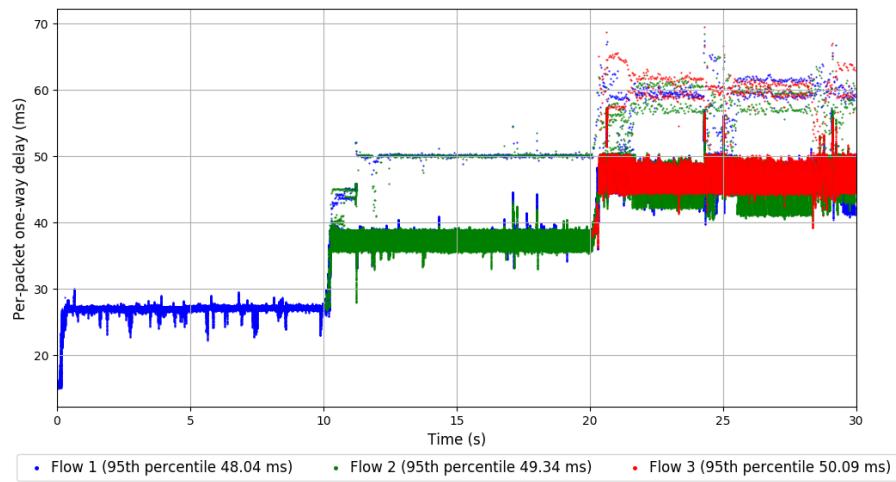
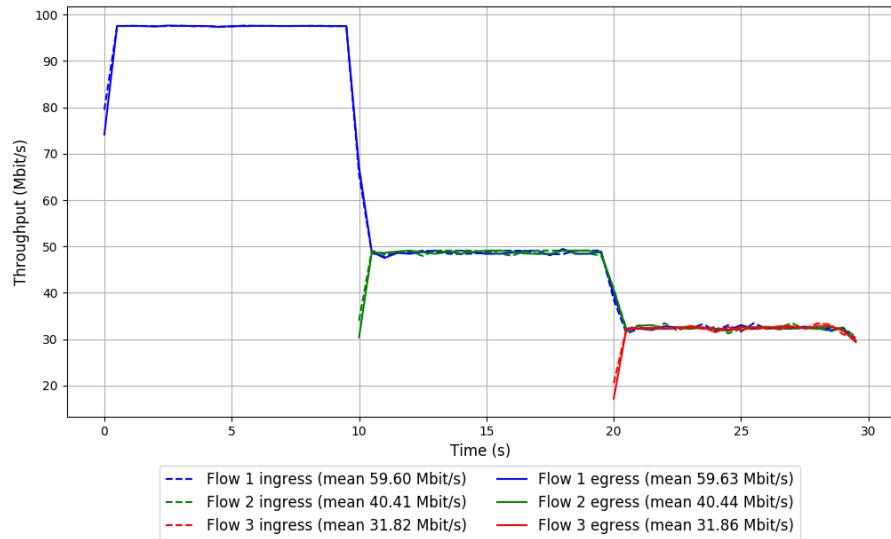


Run 7: Statistics of TCP Cubic

```
Start at: 2018-04-17 15:18:08
End at: 2018-04-17 15:18:38
Local clock offset: -10.669 ms
Remote clock offset: -4.97 ms

# Below is generated by plot.py at 2018-04-17 20:03:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 48.988 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 48.036 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 49.340 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 50.091 ms
Loss rate: 0.56%
```

Run 7: Report of TCP Cubic — Data Link

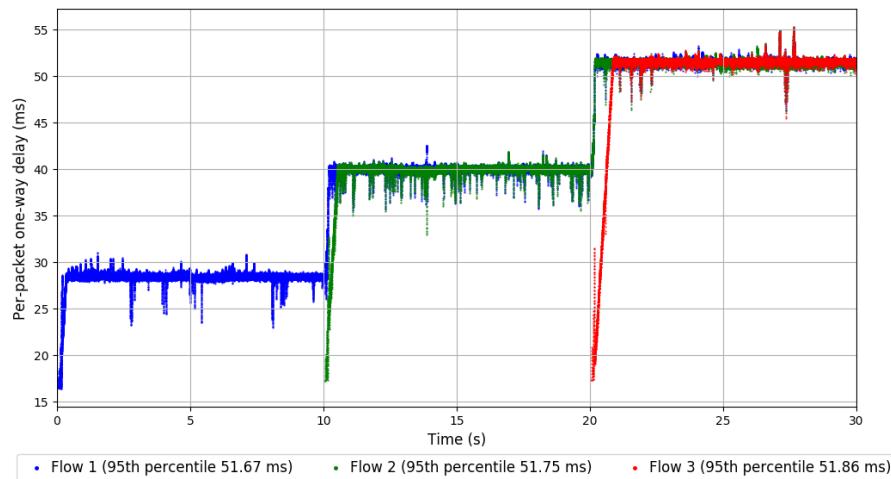
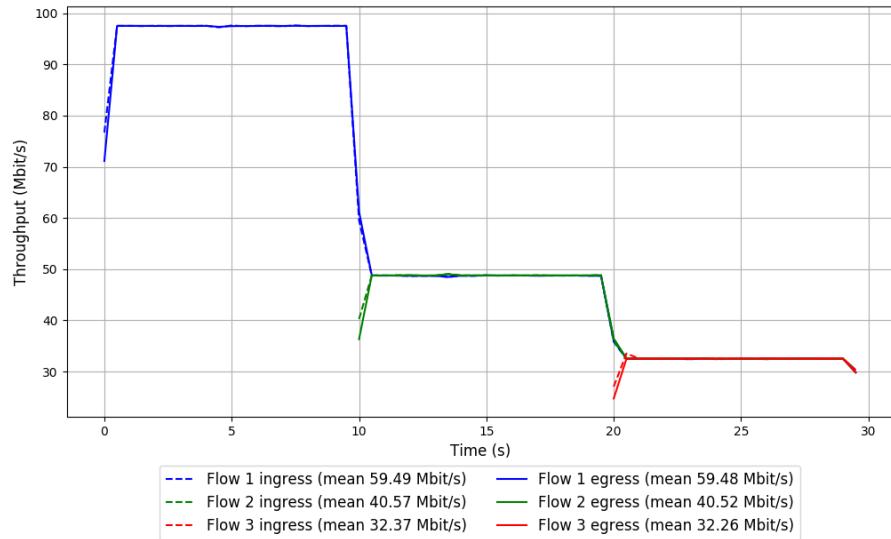


Run 8: Statistics of TCP Cubic

```
Start at: 2018-04-17 15:40:00
End at: 2018-04-17 15:40:30
Local clock offset: -10.566 ms
Remote clock offset: -13.131 ms

# Below is generated by plot.py at 2018-04-17 20:03:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 51.751 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.48 Mbit/s
95th percentile per-packet one-way delay: 51.675 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.52 Mbit/s
95th percentile per-packet one-way delay: 51.754 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 32.26 Mbit/s
95th percentile per-packet one-way delay: 51.862 ms
Loss rate: 0.60%
```

Run 8: Report of TCP Cubic — Data Link

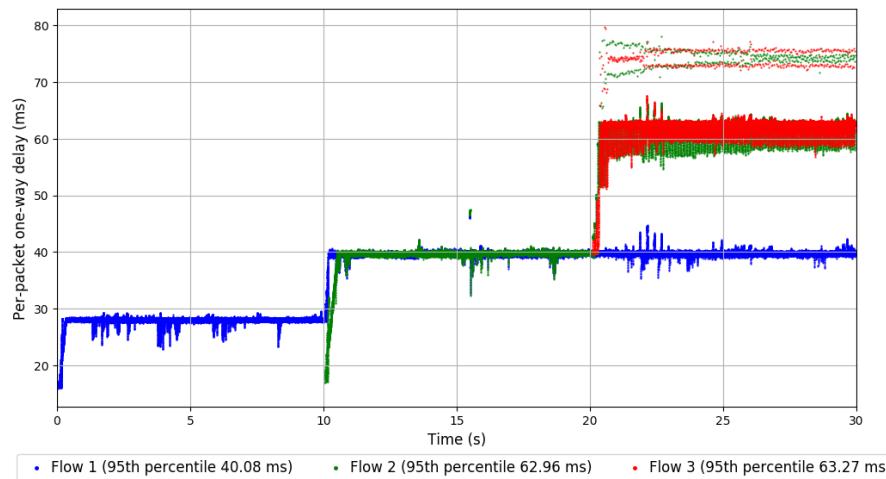
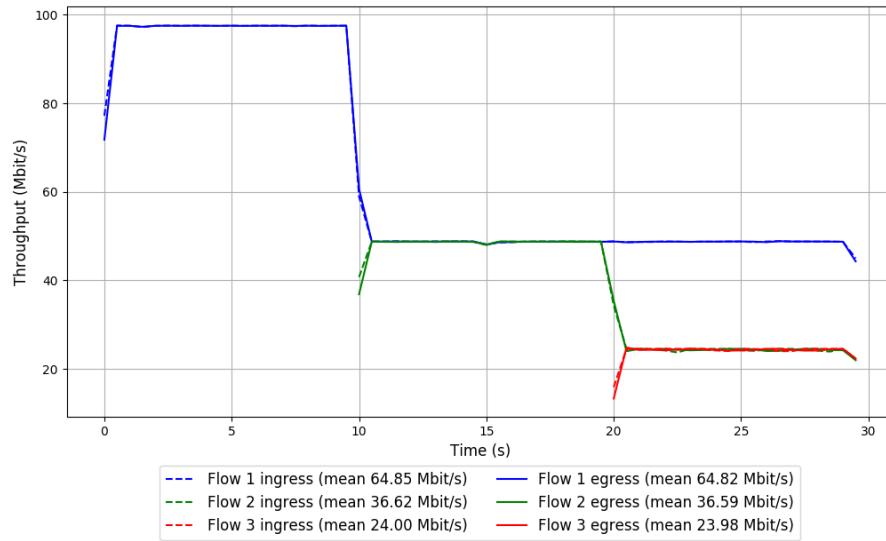


Run 9: Statistics of TCP Cubic

```
Start at: 2018-04-17 16:01:20
End at: 2018-04-17 16:01:50
Local clock offset: -11.783 ms
Remote clock offset: -13.343 ms

# Below is generated by plot.py at 2018-04-17 20:03:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 62.835 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 64.82 Mbit/s
95th percentile per-packet one-way delay: 40.078 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 62.964 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 63.274 ms
Loss rate: 0.70%
```

Run 9: Report of TCP Cubic — Data Link

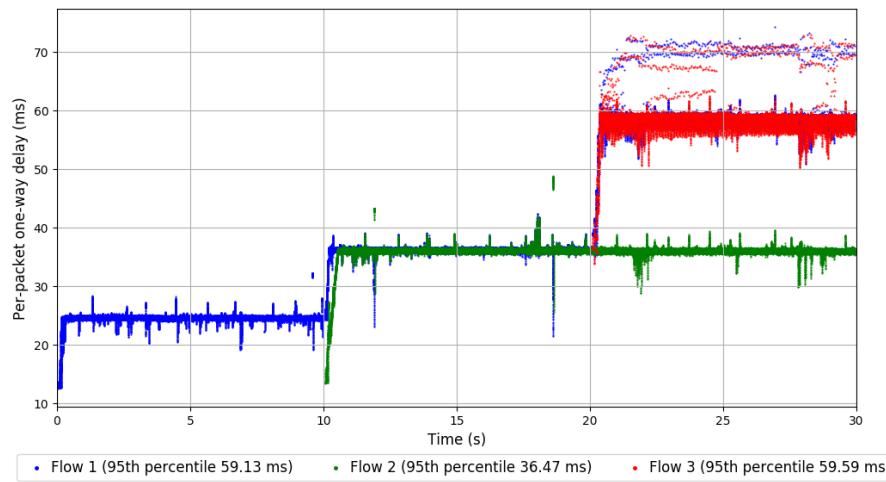
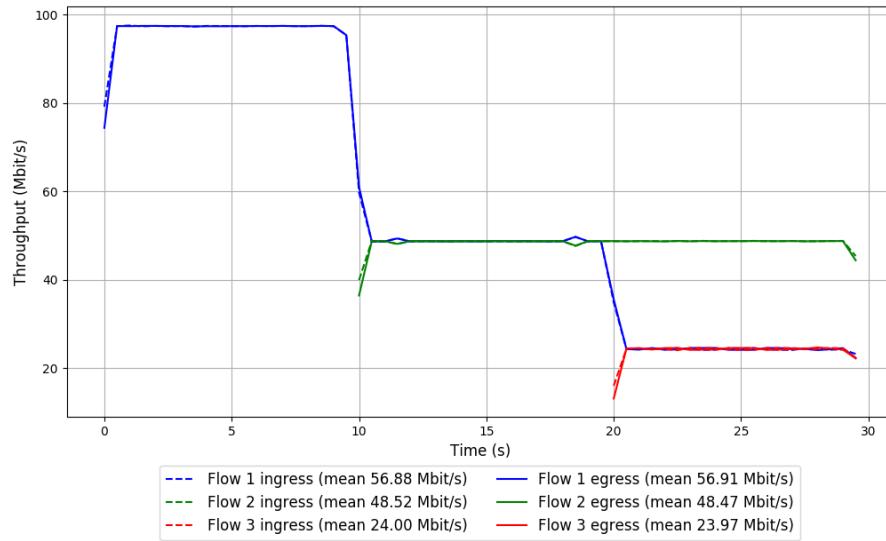


Run 10: Statistics of TCP Cubic

```
Start at: 2018-04-17 16:23:31
End at: 2018-04-17 16:24:01
Local clock offset: -11.226 ms
Remote clock offset: -10.012 ms

# Below is generated by plot.py at 2018-04-17 20:03:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 59.150 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.91 Mbit/s
95th percentile per-packet one-way delay: 59.130 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.47 Mbit/s
95th percentile per-packet one-way delay: 36.473 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 59.589 ms
Loss rate: 0.72%
```

Run 10: Report of TCP Cubic — Data Link

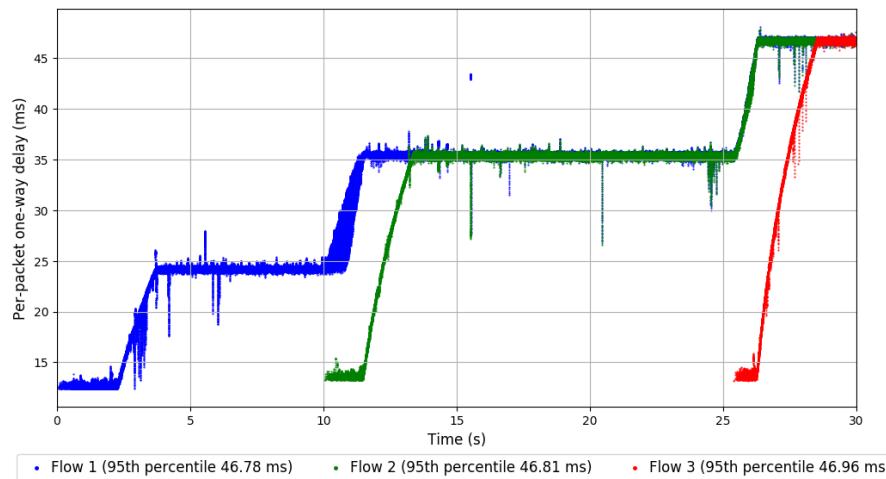
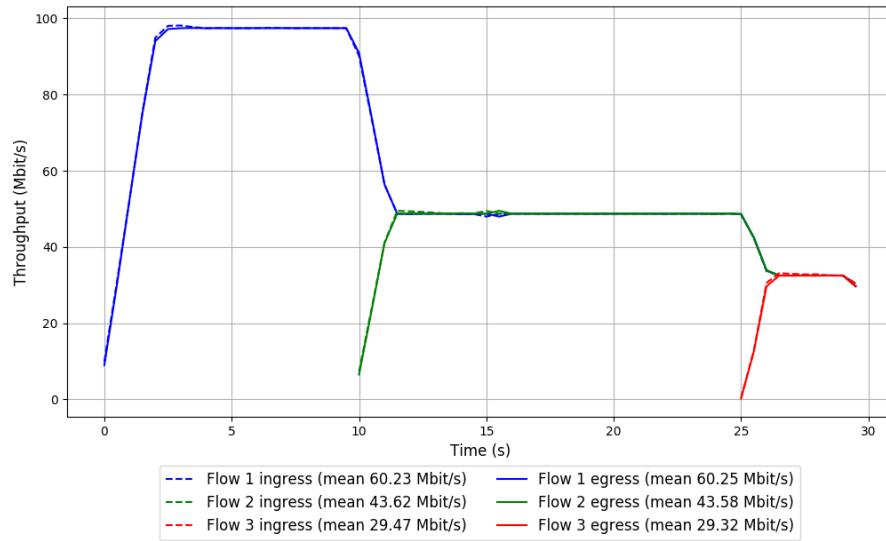


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 13:15:54
End at: 2018-04-17 13:16:24
Local clock offset: -2.328 ms
Remote clock offset: -2.167 ms

# Below is generated by plot.py at 2018-04-17 20:03:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 46.832 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 46.780 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 43.58 Mbit/s
95th percentile per-packet one-way delay: 46.806 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 46.964 ms
Loss rate: 1.39%
```

Run 1: Report of LEDBAT — Data Link

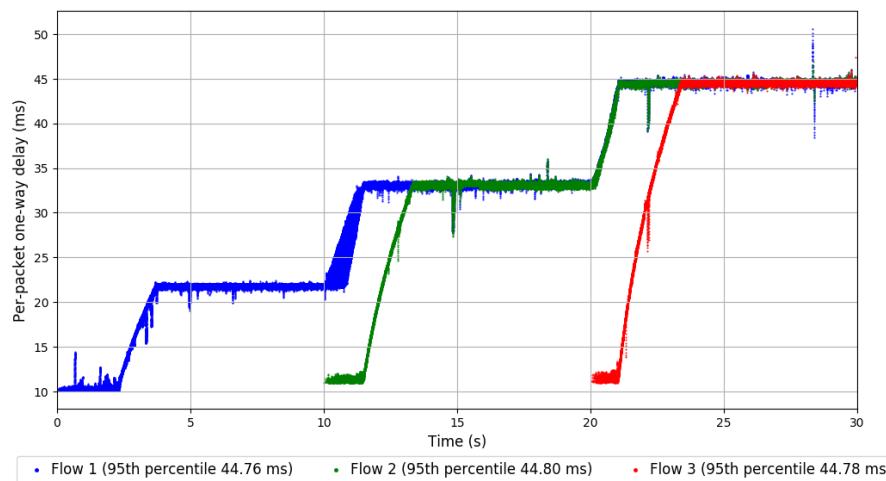
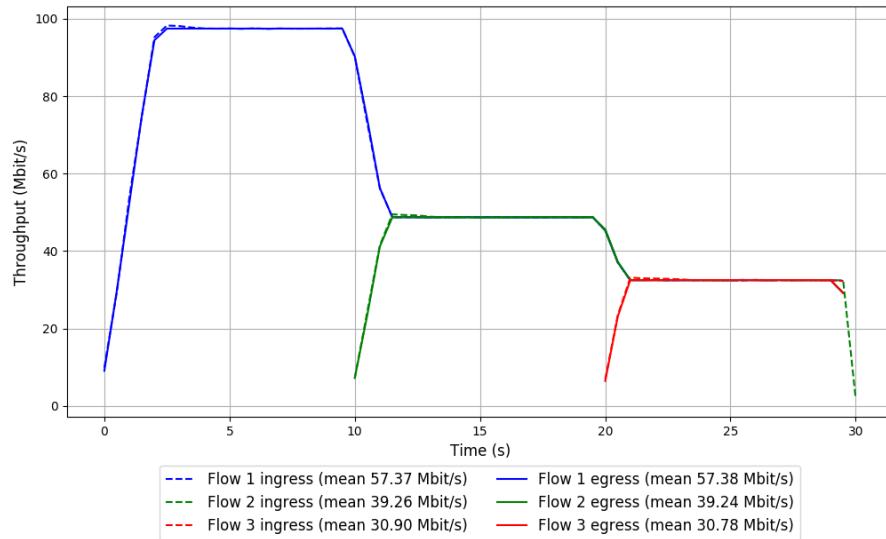


Run 2: Statistics of LEDBAT

```
Start at: 2018-04-17 13:36:21
End at: 2018-04-17 13:36:51
Local clock offset: -4.997 ms
Remote clock offset: -2.626 ms

# Below is generated by plot.py at 2018-04-17 20:03:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 44.775 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 44.759 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 44.796 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 44.782 ms
Loss rate: 0.97%
```

Run 2: Report of LEDBAT — Data Link

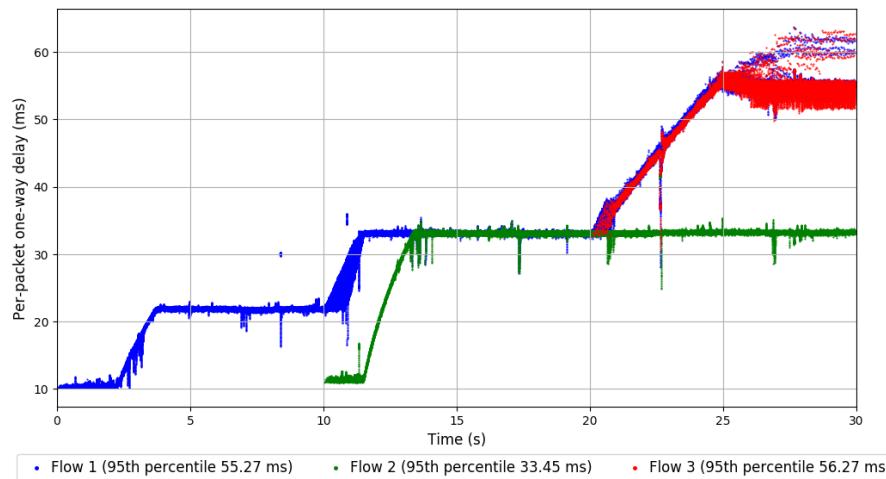
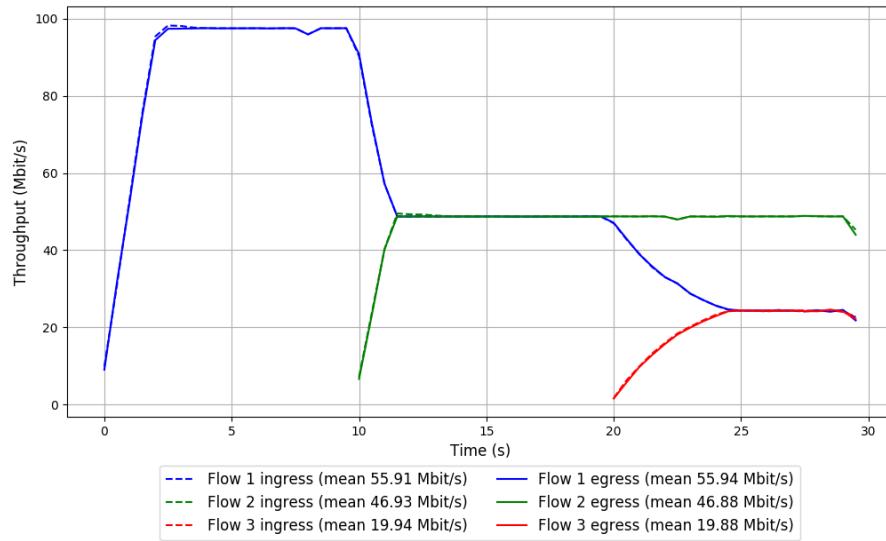


Run 3: Statistics of LEDBAT

```
Start at: 2018-04-17 13:56:42
End at: 2018-04-17 13:57:12
Local clock offset: -4.107 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-04-17 20:03:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 55.217 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 55.94 Mbit/s
95th percentile per-packet one-way delay: 55.266 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 33.453 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 19.88 Mbit/s
95th percentile per-packet one-way delay: 56.275 ms
Loss rate: 0.83%
```

Run 3: Report of LEDBAT — Data Link

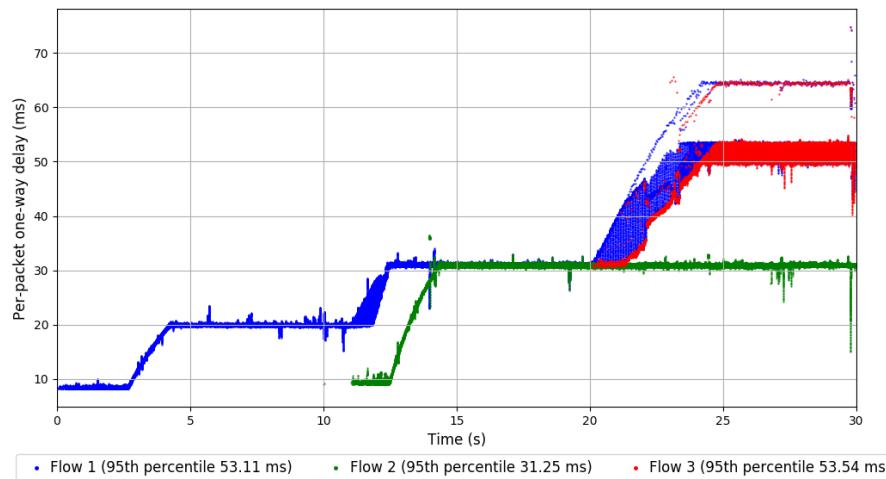
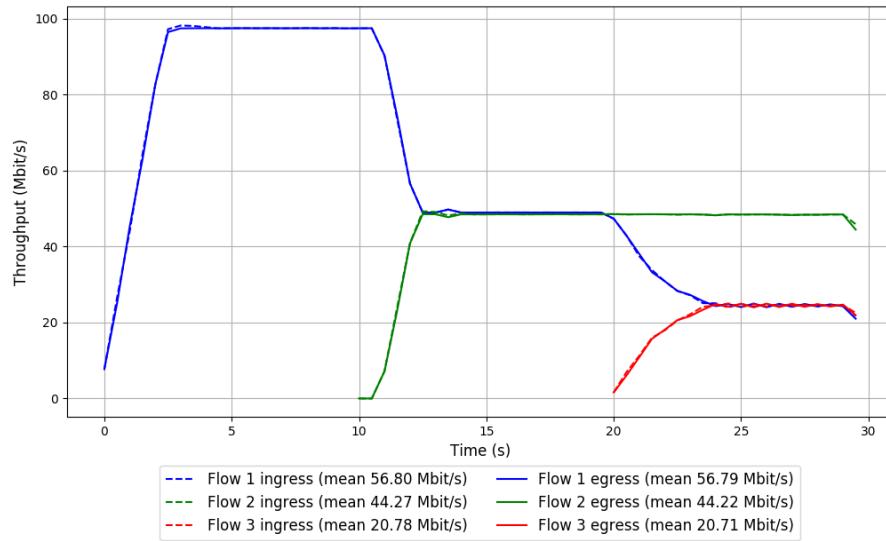


Run 4: Statistics of LEDBAT

```
Start at: 2018-04-17 14:17:22
End at: 2018-04-17 14:17:52
Local clock offset: -5.038 ms
Remote clock offset: -1.491 ms

# Below is generated by plot.py at 2018-04-17 20:03:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 53.208 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.79 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 44.22 Mbit/s
95th percentile per-packet one-way delay: 31.249 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 20.71 Mbit/s
95th percentile per-packet one-way delay: 53.543 ms
Loss rate: 0.79%
```

Run 4: Report of LEDBAT — Data Link

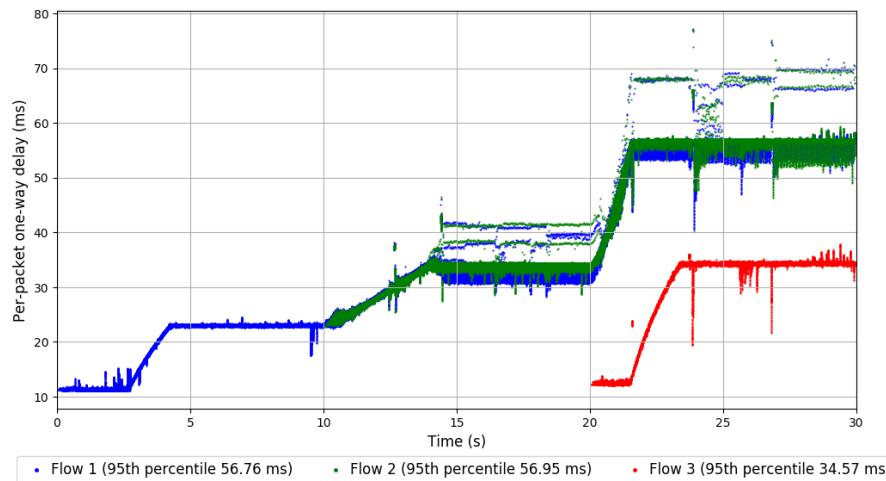
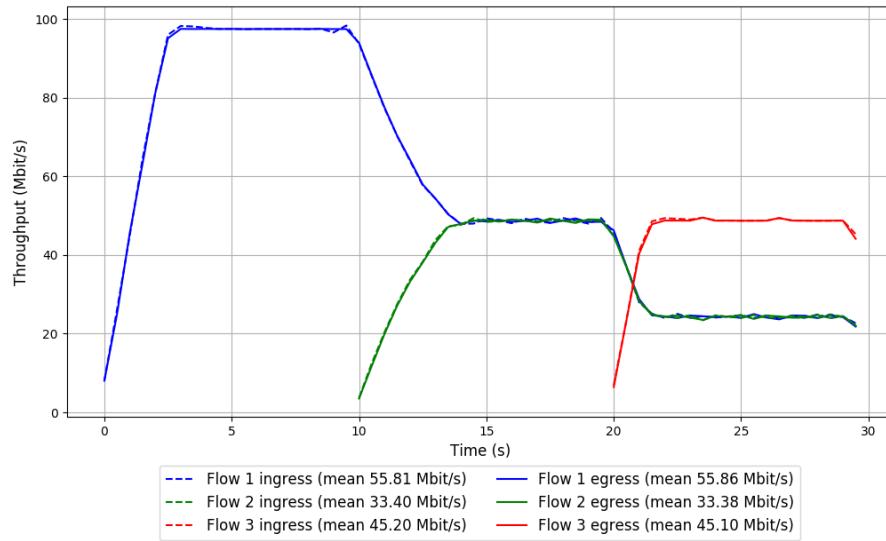


Run 5: Statistics of LEDBAT

```
Start at: 2018-04-17 14:38:13
End at: 2018-04-17 14:38:43
Local clock offset: -6.67 ms
Remote clock offset: -6.499 ms

# Below is generated by plot.py at 2018-04-17 20:05:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 56.832 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 56.756 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 56.947 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 45.10 Mbit/s
95th percentile per-packet one-way delay: 34.573 ms
Loss rate: 0.50%
```

Run 5: Report of LEDBAT — Data Link

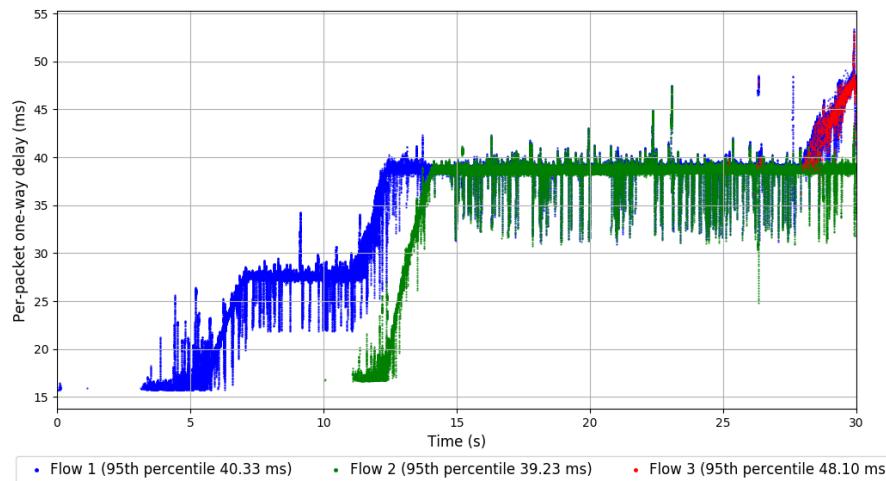
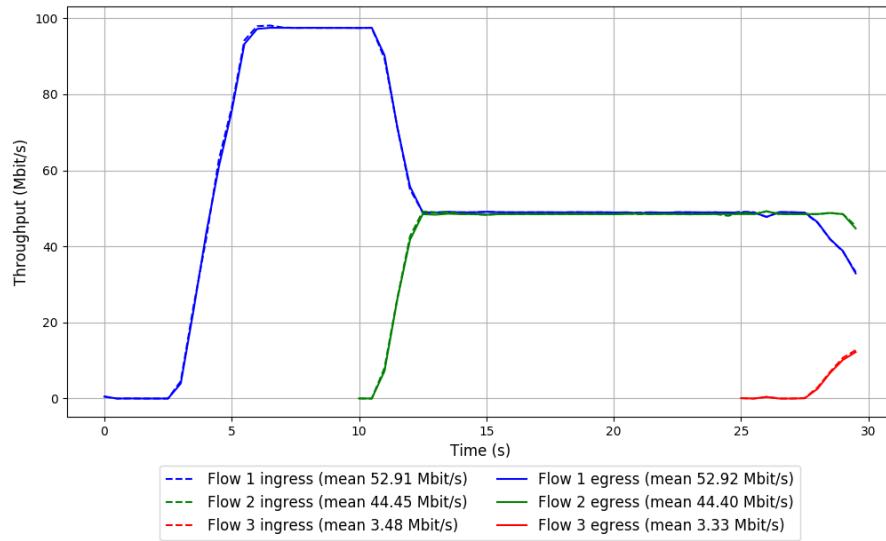


Run 6: Statistics of LEDBAT

```
Start at: 2018-04-17 15:00:17
End at: 2018-04-17 15:00:47
Local clock offset: -10.149 ms
Remote clock offset: -6.882 ms

# Below is generated by plot.py at 2018-04-17 20:05:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.00 Mbit/s
95th percentile per-packet one-way delay: 39.872 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 40.329 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 44.40 Mbit/s
95th percentile per-packet one-way delay: 39.231 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 48.102 ms
Loss rate: 5.03%
```

Run 6: Report of LEDBAT — Data Link

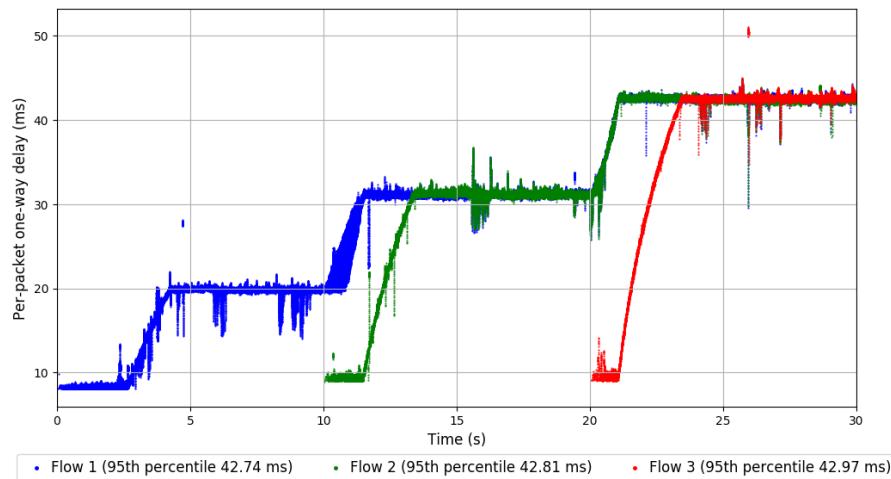
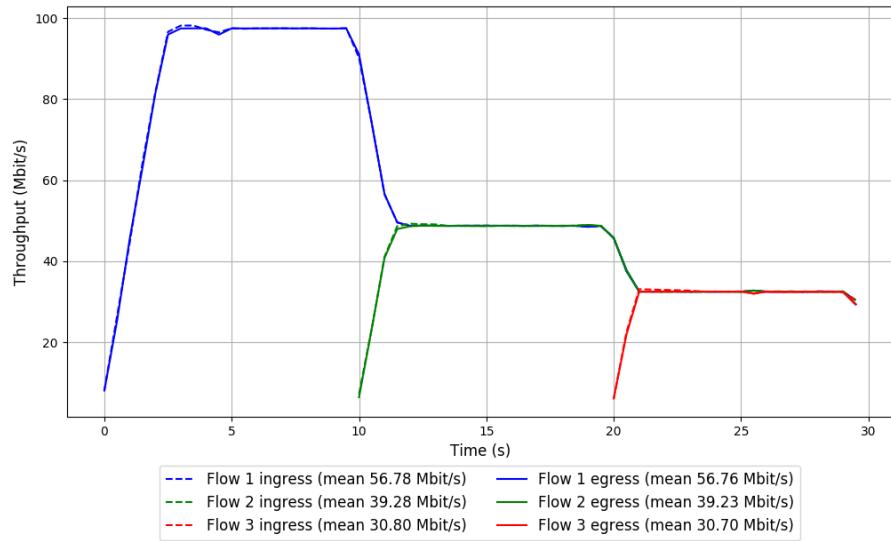


Run 7: Statistics of LEDBAT

```
Start at: 2018-04-17 15:22:04
End at: 2018-04-17 15:22:34
Local clock offset: -13.589 ms
Remote clock offset: -0.635 ms

# Below is generated by plot.py at 2018-04-17 20:05:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 42.793 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.76 Mbit/s
95th percentile per-packet one-way delay: 42.744 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 42.808 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 30.70 Mbit/s
95th percentile per-packet one-way delay: 42.972 ms
Loss rate: 0.61%
```

Run 7: Report of LEDBAT — Data Link

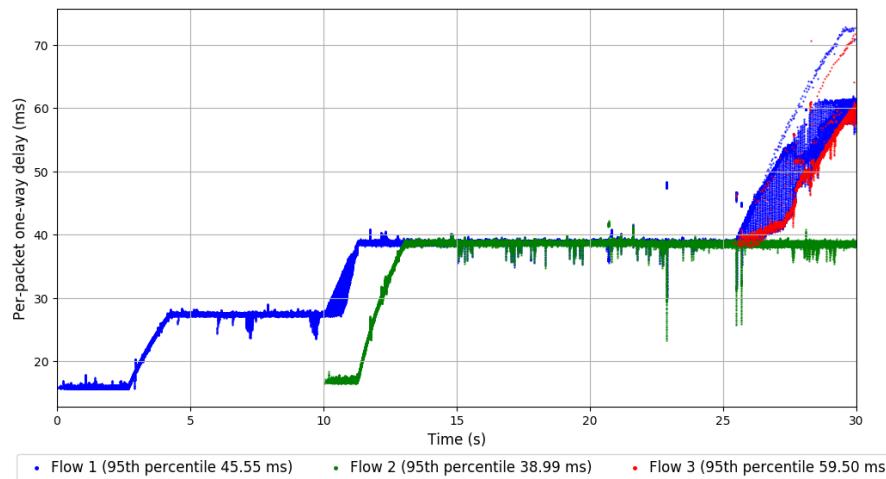
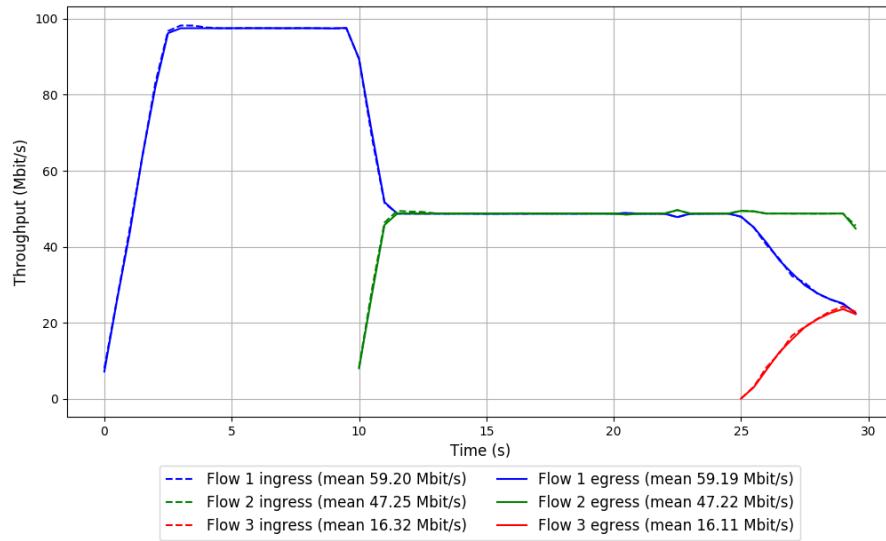


Run 8: Statistics of LEDBAT

```
Start at: 2018-04-17 15:43:58
End at: 2018-04-17 15:44:28
Local clock offset: -11.335 ms
Remote clock offset: -13.813 ms

# Below is generated by plot.py at 2018-04-17 20:05:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 45.572 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 45.548 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 47.22 Mbit/s
95th percentile per-packet one-way delay: 38.990 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 59.498 ms
Loss rate: 2.31%
```

Run 8: Report of LEDBAT — Data Link

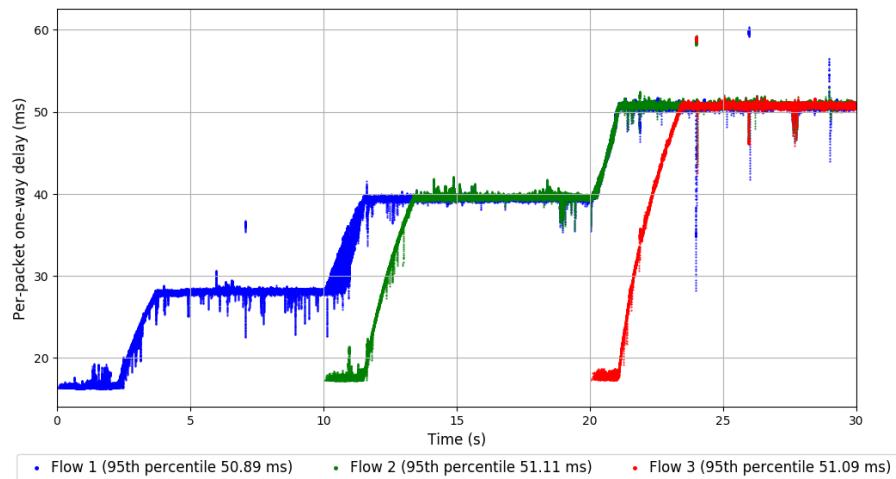
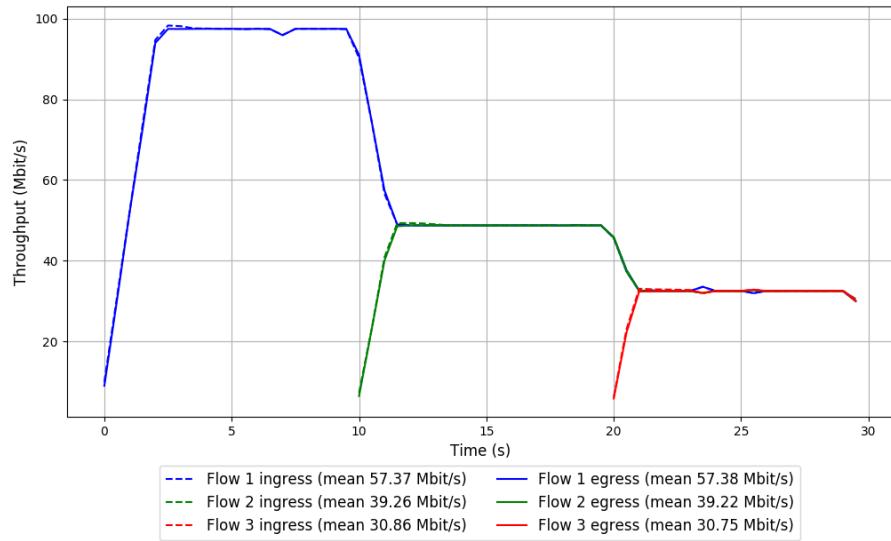


Run 9: Statistics of LEDBAT

```
Start at: 2018-04-17 16:05:12
End at: 2018-04-17 16:05:42
Local clock offset: -11.757 ms
Remote clock offset: -11.858 ms

# Below is generated by plot.py at 2018-04-17 20:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 51.022 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 50.894 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.22 Mbit/s
95th percentile per-packet one-way delay: 51.107 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 51.088 ms
Loss rate: 0.61%
```

Run 9: Report of LEDBAT — Data Link

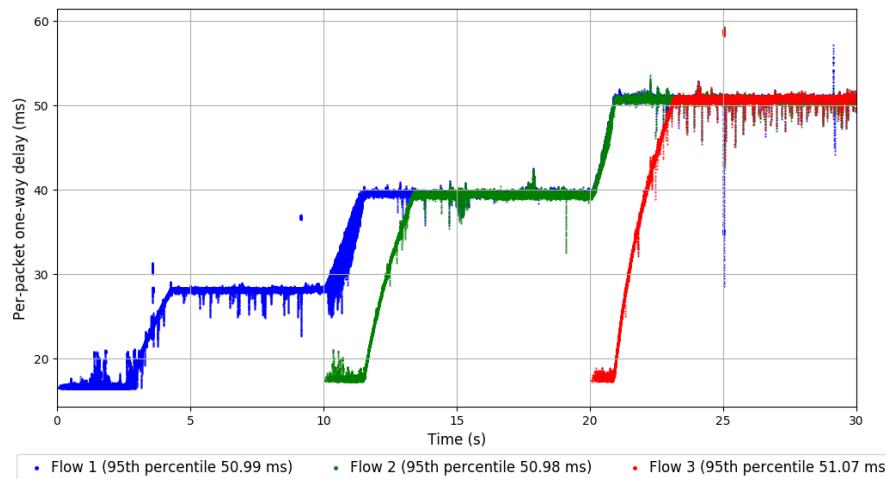
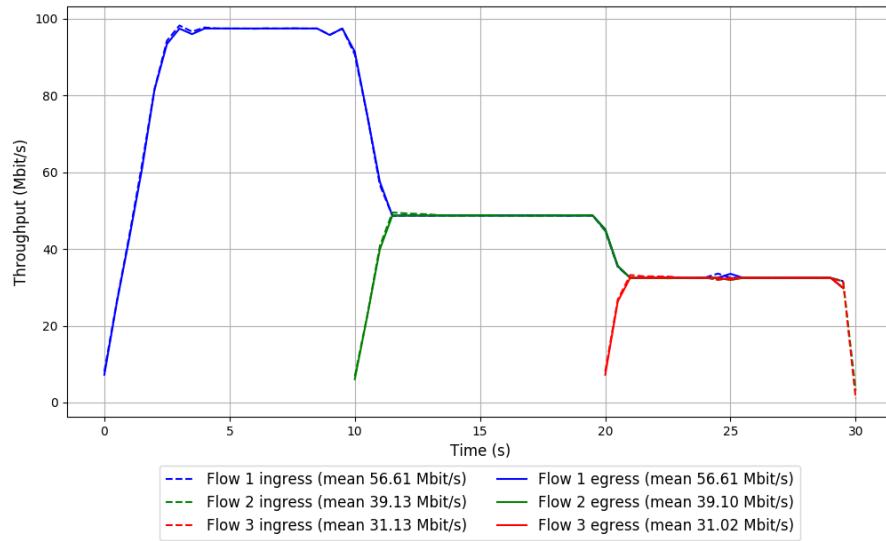


Run 10: Statistics of LEDBAT

```
Start at: 2018-04-17 16:27:49
End at: 2018-04-17 16:28:19
Local clock offset: -7.0 ms
Remote clock offset: -10.44 ms

# Below is generated by plot.py at 2018-04-17 20:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 51.005 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 56.61 Mbit/s
95th percentile per-packet one-way delay: 50.987 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 50.982 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 31.02 Mbit/s
95th percentile per-packet one-way delay: 51.074 ms
Loss rate: 0.96%
```

Run 10: Report of LEDBAT — Data Link

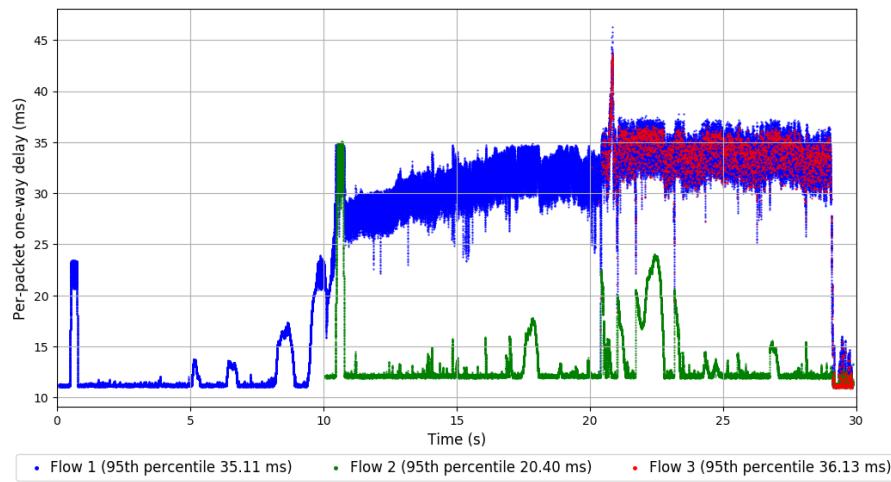
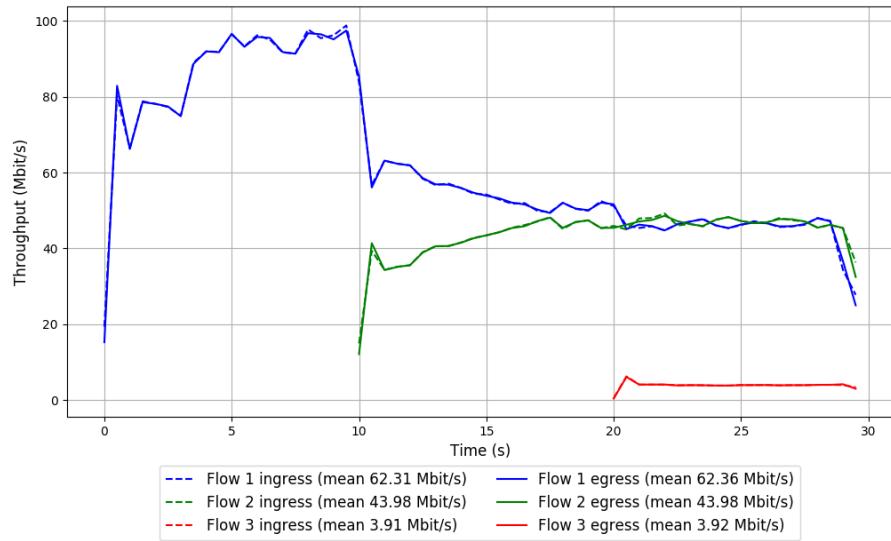


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-04-17 13:17:07
End at: 2018-04-17 13:17:37
Local clock offset: -3.347 ms
Remote clock offset: -2.211 ms

# Below is generated by plot.py at 2018-04-17 20:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 34.732 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 62.36 Mbit/s
95th percentile per-packet one-way delay: 35.111 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 20.397 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 36.126 ms
Loss rate: 0.56%
```

Run 1: Report of PCC-Allegro — Data Link

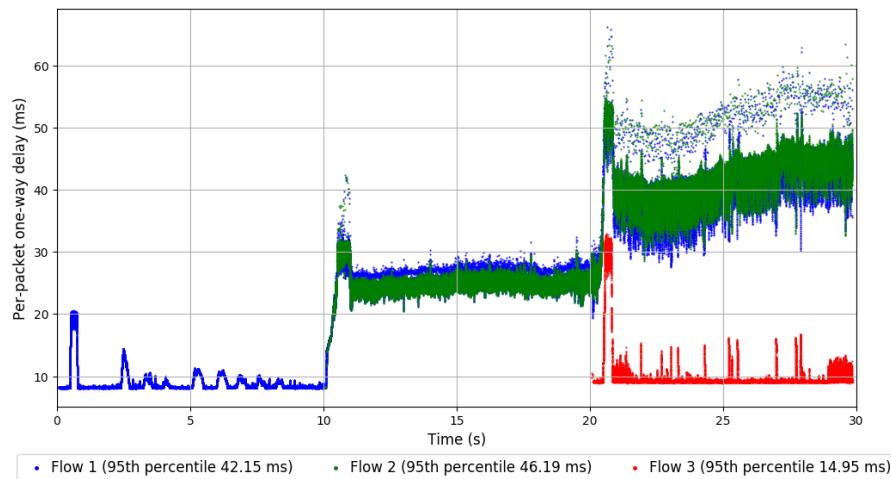
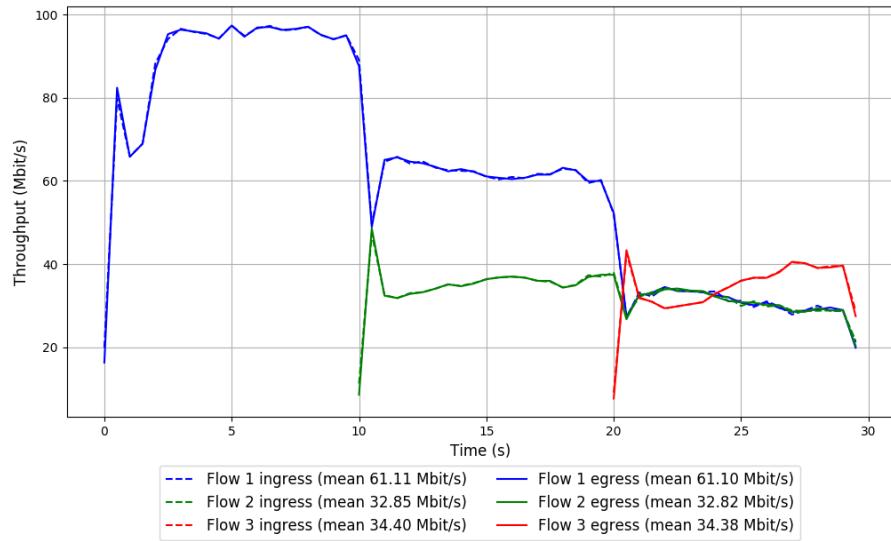


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-04-17 13:37:37
End at: 2018-04-17 13:38:07
Local clock offset: -7.579 ms
Remote clock offset: -3.301 ms

# Below is generated by plot.py at 2018-04-17 20:05:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 43.802 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 61.10 Mbit/s
95th percentile per-packet one-way delay: 42.152 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 46.188 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 14.946 ms
Loss rate: 0.32%
```

Run 2: Report of PCC-Allegro — Data Link

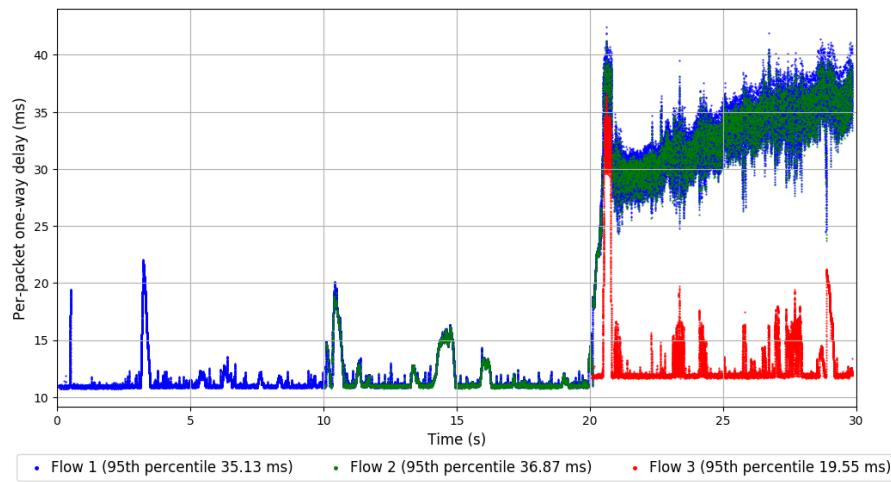
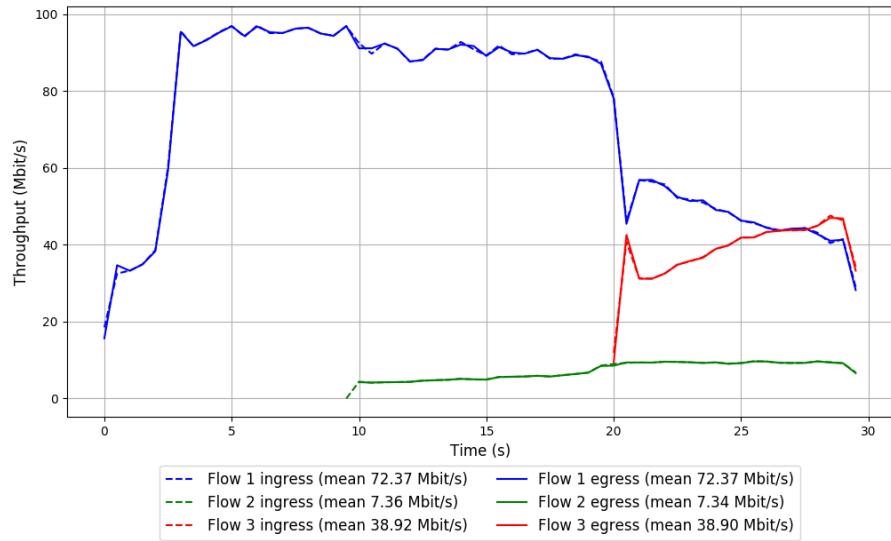


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-04-17 13:58:00
End at: 2018-04-17 13:58:30
Local clock offset: -4.715 ms
Remote clock offset: -1.563 ms

# Below is generated by plot.py at 2018-04-17 20:06:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.04 Mbit/s
95th percentile per-packet one-way delay: 35.079 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 72.37 Mbit/s
95th percentile per-packet one-way delay: 35.134 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 36.869 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 38.90 Mbit/s
95th percentile per-packet one-way delay: 19.546 ms
Loss rate: 0.29%
```

Run 3: Report of PCC-Allegro — Data Link

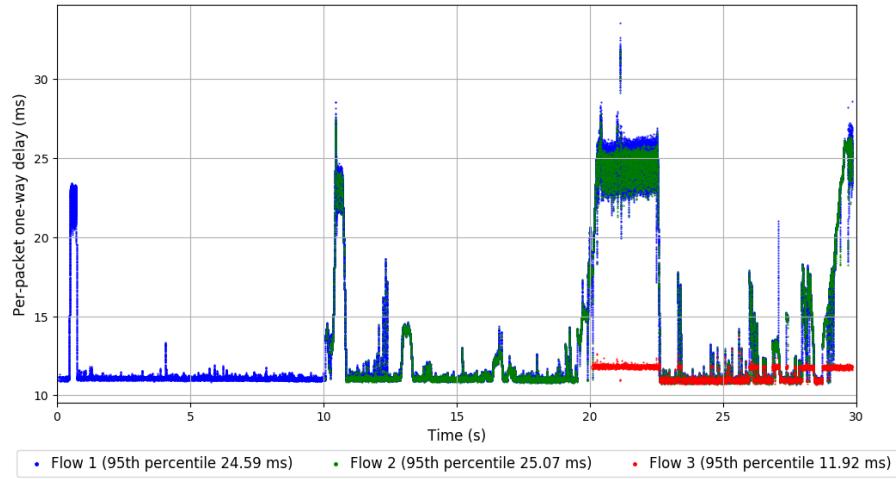
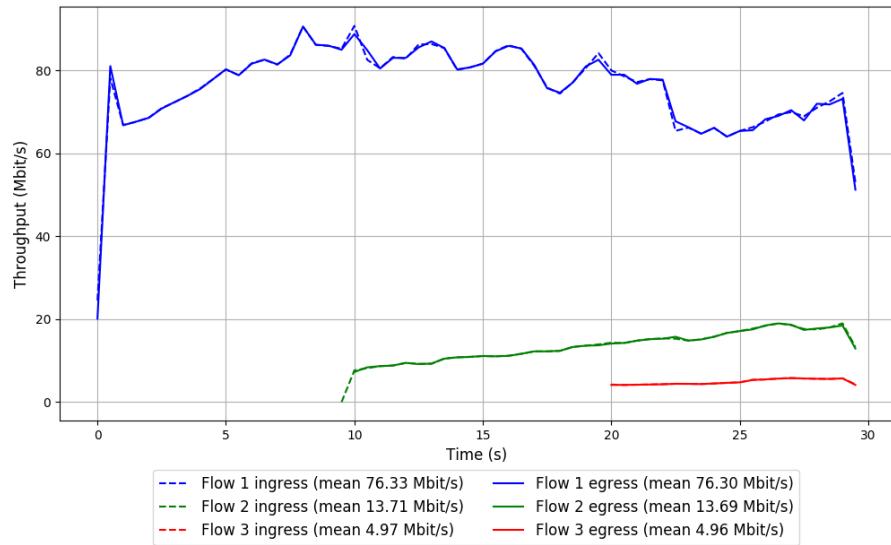


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-04-17 14:18:38
End at: 2018-04-17 14:19:08
Local clock offset: -2.407 ms
Remote clock offset: -2.411 ms

# Below is generated by plot.py at 2018-04-17 20:06:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.04 Mbit/s
95th percentile per-packet one-way delay: 24.655 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 76.30 Mbit/s
95th percentile per-packet one-way delay: 24.595 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 25.067 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 4.96 Mbit/s
95th percentile per-packet one-way delay: 11.920 ms
Loss rate: 0.28%
```

Run 4: Report of PCC-Allegro — Data Link

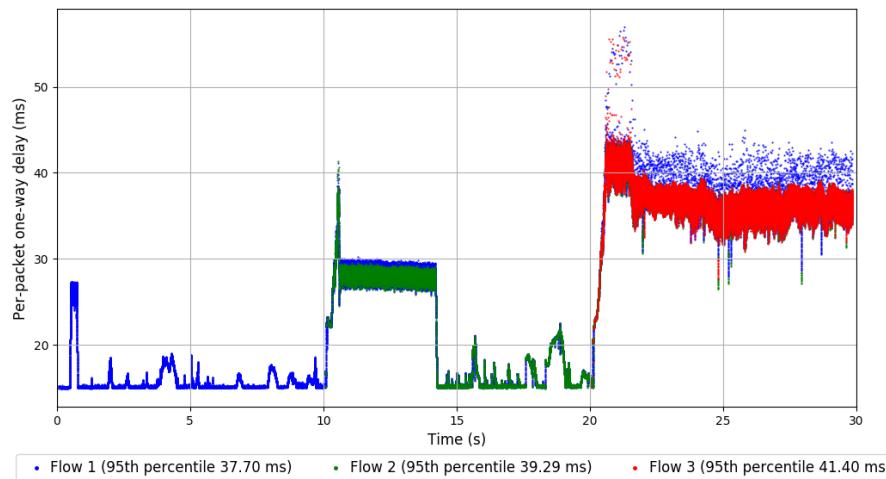
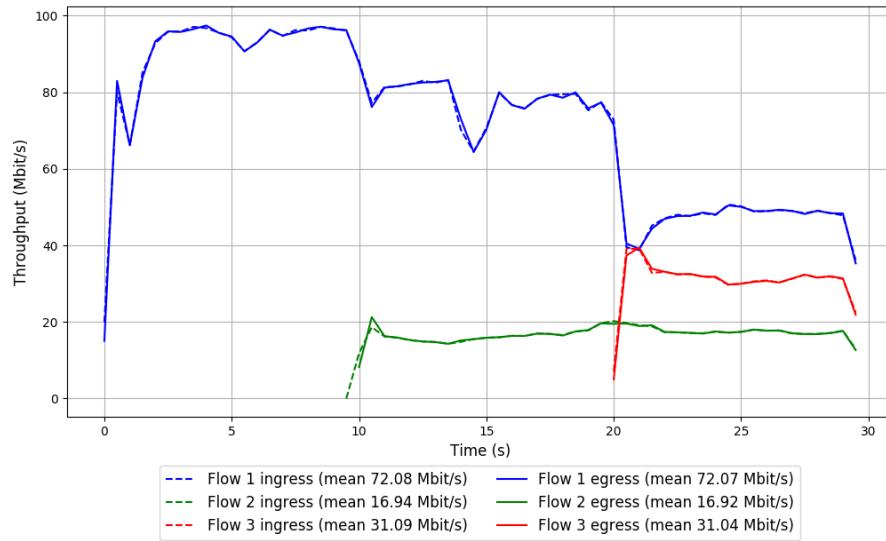


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-04-17 14:39:25
End at: 2018-04-17 14:39:55
Local clock offset: -10.632 ms
Remote clock offset: -14.171 ms

# Below is generated by plot.py at 2018-04-17 20:06:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 38.416 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 72.07 Mbit/s
95th percentile per-packet one-way delay: 37.702 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 16.92 Mbit/s
95th percentile per-packet one-way delay: 39.293 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 41.397 ms
Loss rate: 0.44%
```

Run 5: Report of PCC-Allegro — Data Link

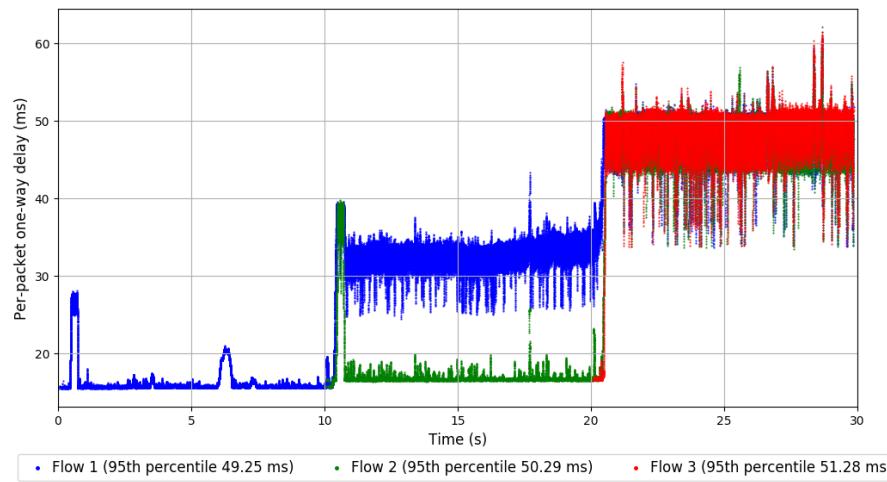
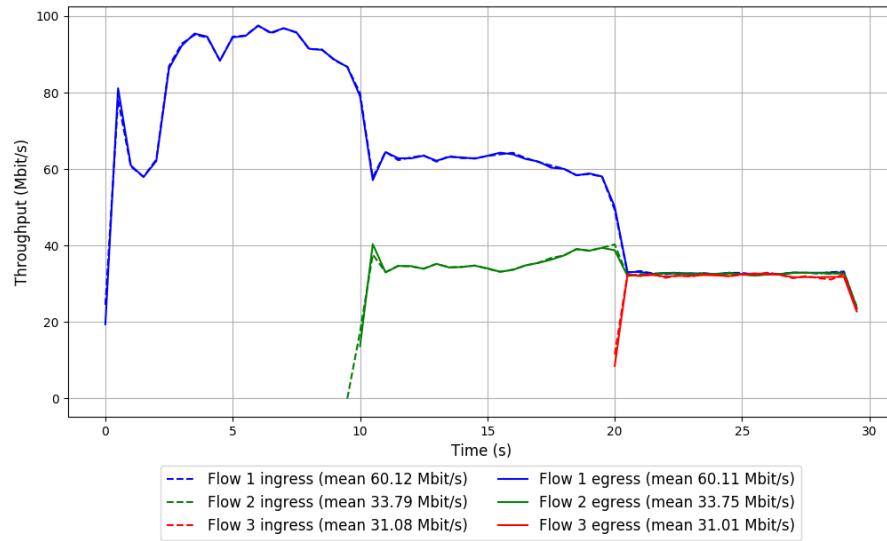


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-04-17 15:01:47
End at: 2018-04-17 15:02:17
Local clock offset: -10.739 ms
Remote clock offset: -6.883 ms

# Below is generated by plot.py at 2018-04-17 20:06:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.77 Mbit/s
95th percentile per-packet one-way delay: 50.211 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 60.11 Mbit/s
95th percentile per-packet one-way delay: 49.250 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 50.288 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 31.01 Mbit/s
95th percentile per-packet one-way delay: 51.278 ms
Loss rate: 0.59%
```

Run 6: Report of PCC-Allegro — Data Link

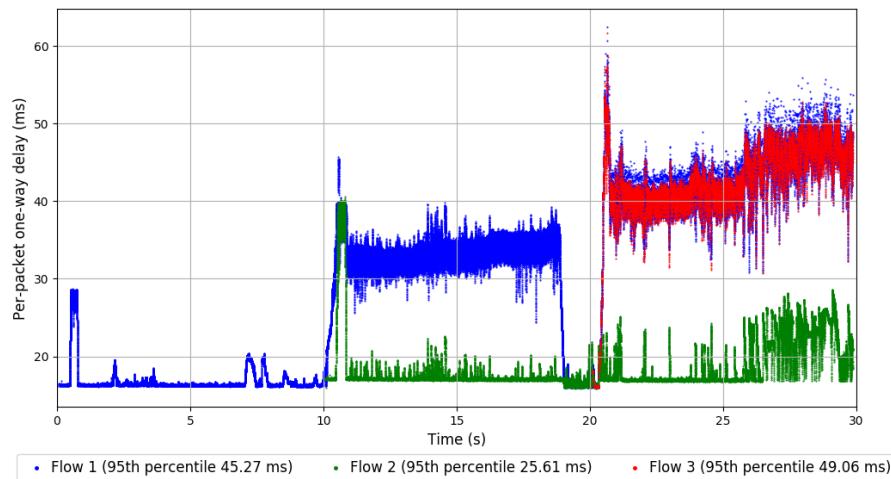
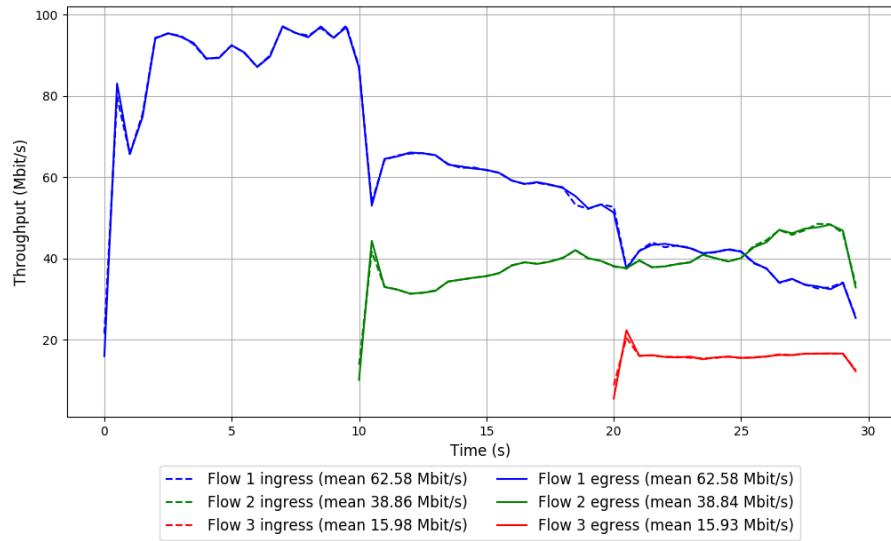


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-04-17 15:23:24
End at: 2018-04-17 15:23:54
Local clock offset: -10.233 ms
Remote clock offset: -5.583 ms

# Below is generated by plot.py at 2018-04-17 20:06:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 45.252 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 62.58 Mbit/s
95th percentile per-packet one-way delay: 45.266 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 25.611 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 49.056 ms
Loss rate: 0.56%
```

Run 7: Report of PCC-Allegro — Data Link

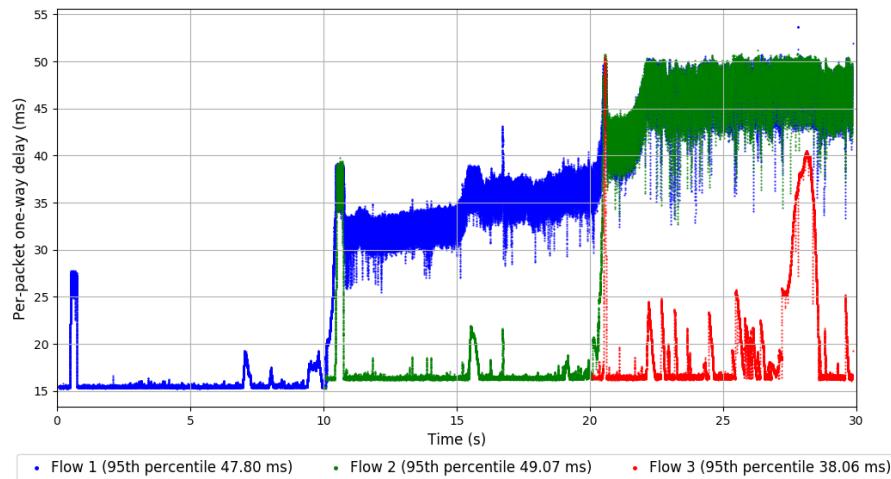
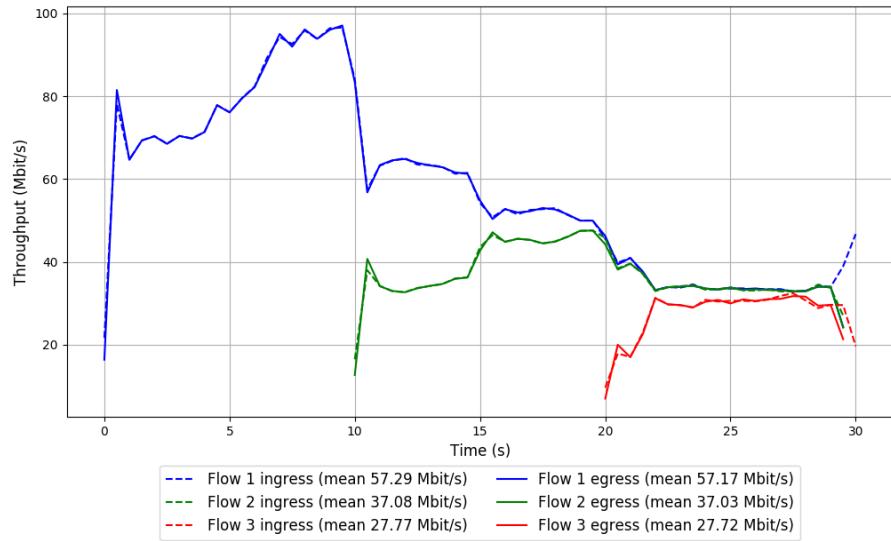


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-04-17 15:45:15
End at: 2018-04-17 15:45:45
Local clock offset: -11.654 ms
Remote clock offset: -14.056 ms

# Below is generated by plot.py at 2018-04-17 20:06:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 48.297 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 57.17 Mbit/s
95th percentile per-packet one-way delay: 47.797 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 49.071 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 27.72 Mbit/s
95th percentile per-packet one-way delay: 38.059 ms
Loss rate: 5.03%
```

Run 8: Report of PCC-Allegro — Data Link

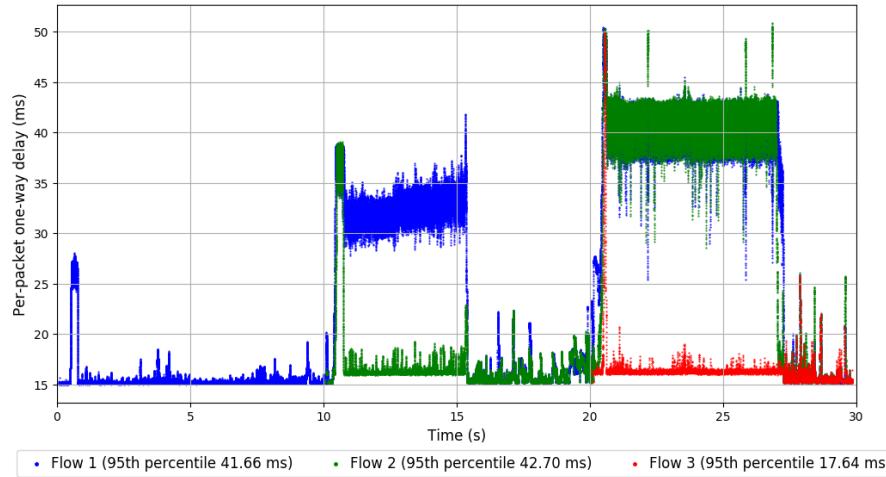
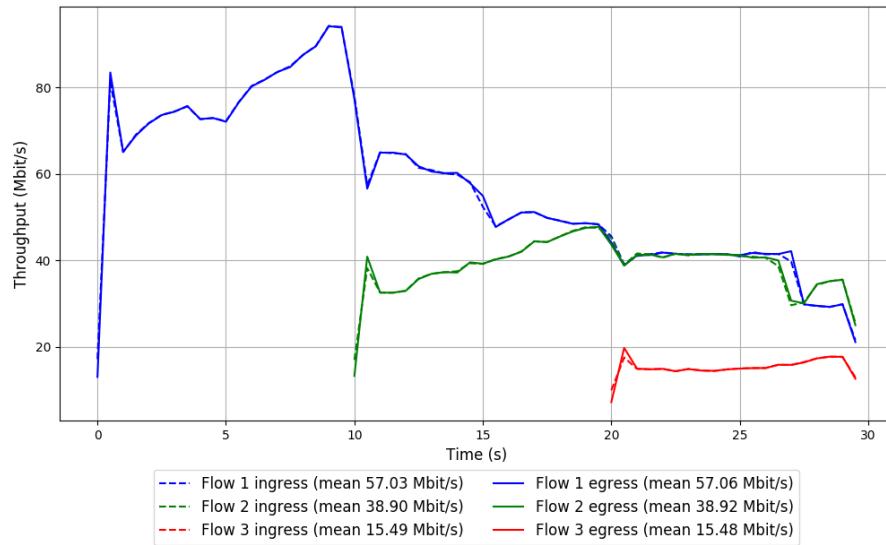


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-04-17 16:07:03
End at: 2018-04-17 16:07:33
Local clock offset: -12.67 ms
Remote clock offset: -11.046 ms

# Below is generated by plot.py at 2018-04-17 20:06:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 42.117 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 41.663 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 42.700 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 17.641 ms
Loss rate: 0.27%
```

Run 9: Report of PCC-Allegro — Data Link

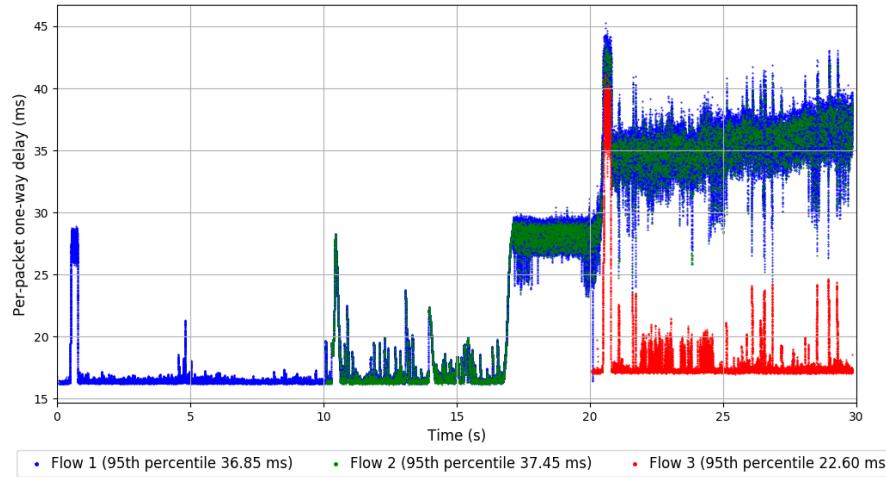
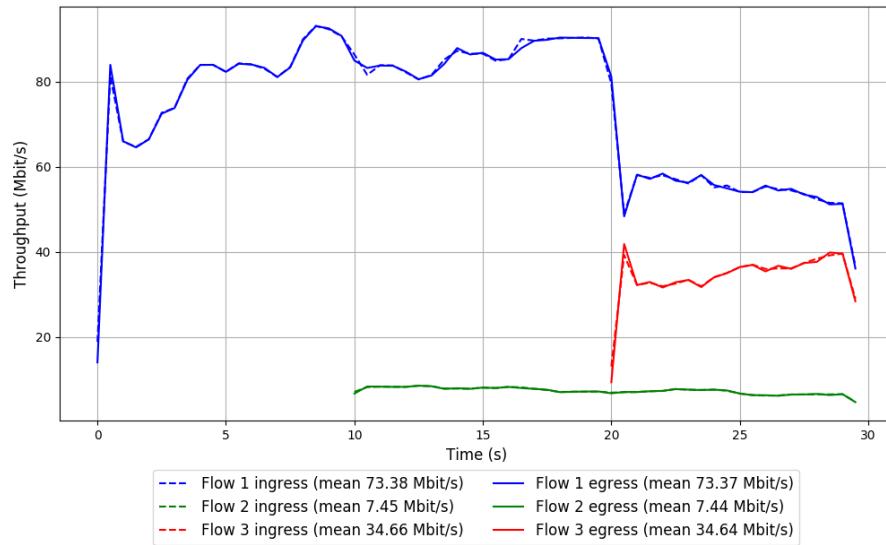


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-04-17 16:29:09
End at: 2018-04-17 16:29:39
Local clock offset: -6.888 ms
Remote clock offset: -10.503 ms

# Below is generated by plot.py at 2018-04-17 20:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 36.816 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 36.854 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 7.44 Mbit/s
95th percentile per-packet one-way delay: 37.445 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 34.64 Mbit/s
95th percentile per-packet one-way delay: 22.601 ms
Loss rate: 0.29%
```

Run 10: Report of PCC-Allegro — Data Link

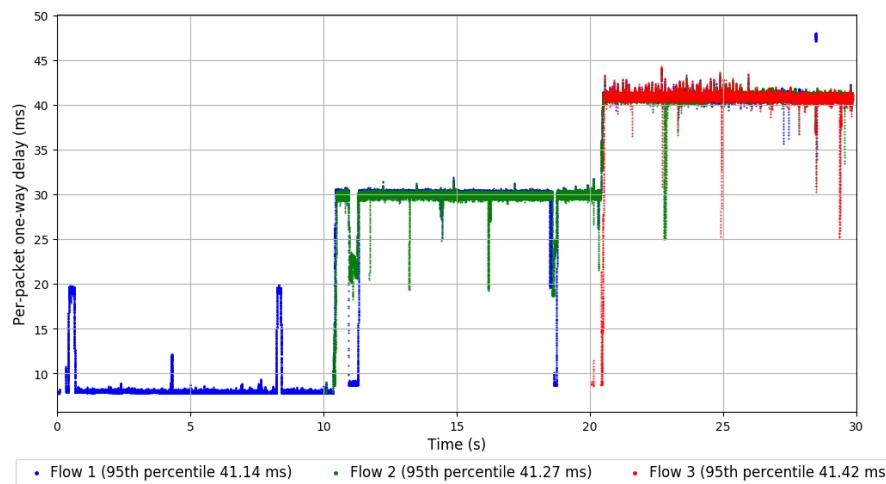
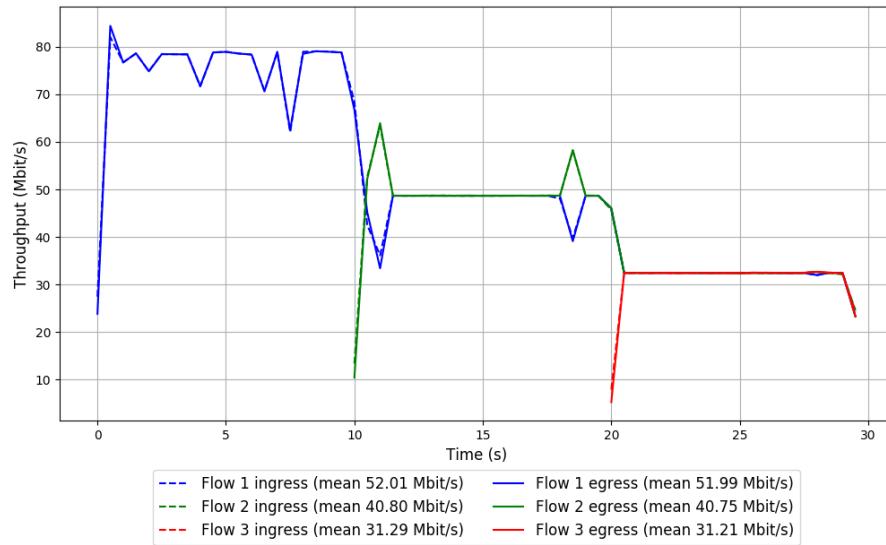


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 13:11:03
End at: 2018-04-17 13:11:33
Local clock offset: -6.053 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-04-17 20:08:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 41.267 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 41.136 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.75 Mbit/s
95th percentile per-packet one-way delay: 41.269 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 41.417 ms
Loss rate: 0.59%
```

Run 1: Report of QUIC Cubic — Data Link

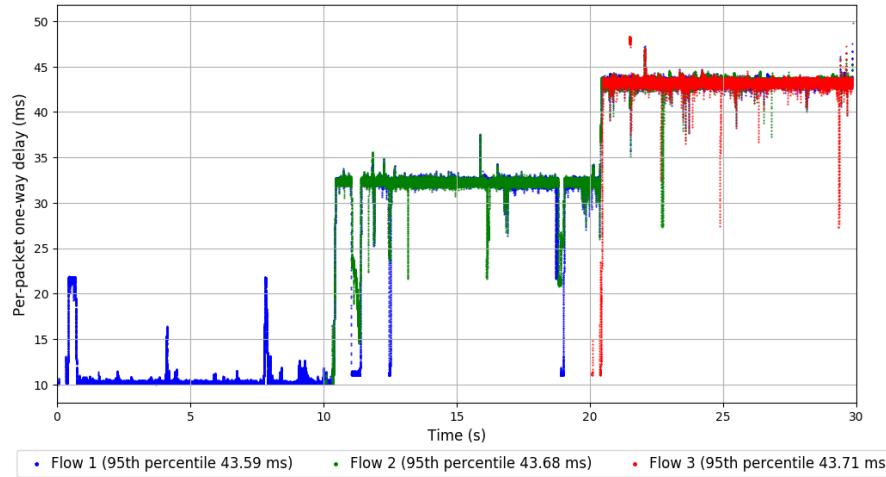
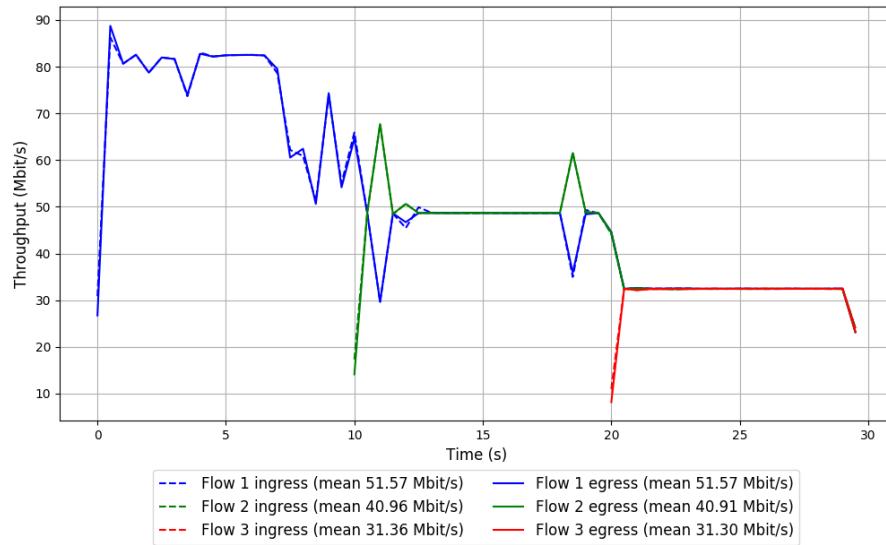


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-04-17 13:31:28
End at: 2018-04-17 13:31:58
Local clock offset: -3.709 ms
Remote clock offset: -1.347 ms

# Below is generated by plot.py at 2018-04-17 20:08:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.06 Mbit/s
95th percentile per-packet one-way delay: 43.650 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 43.587 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 43.680 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 43.712 ms
Loss rate: 0.59%
```

Run 2: Report of QUIC Cubic — Data Link

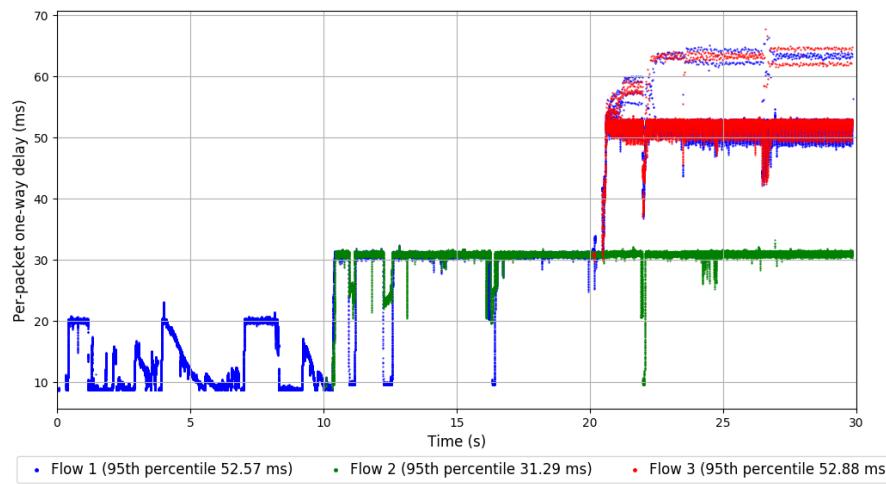
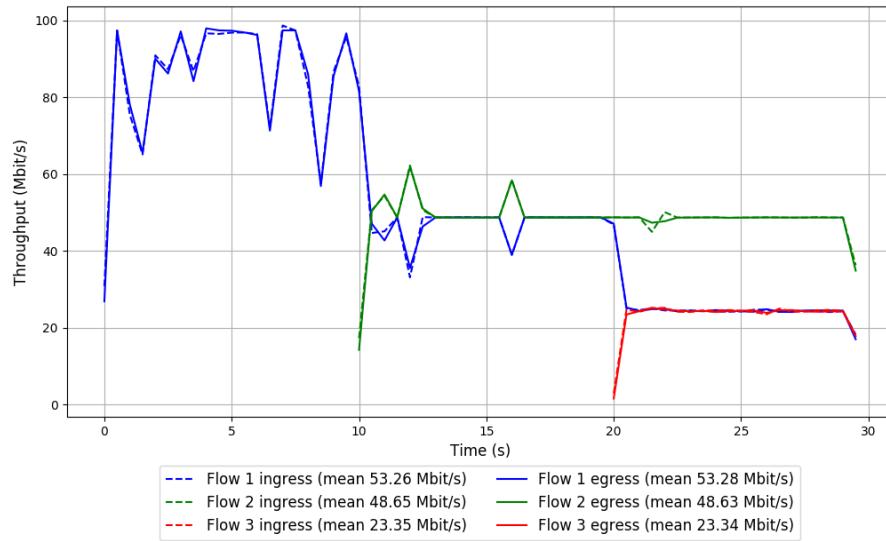


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-04-17 13:51:45
End at: 2018-04-17 13:52:15
Local clock offset: -6.923 ms
Remote clock offset: -1.533 ms

# Below is generated by plot.py at 2018-04-17 20:08:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 52.604 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 53.28 Mbit/s
95th percentile per-packet one-way delay: 52.566 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.63 Mbit/s
95th percentile per-packet one-way delay: 31.287 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 52.883 ms
Loss rate: 0.69%
```

Run 3: Report of QUIC Cubic — Data Link

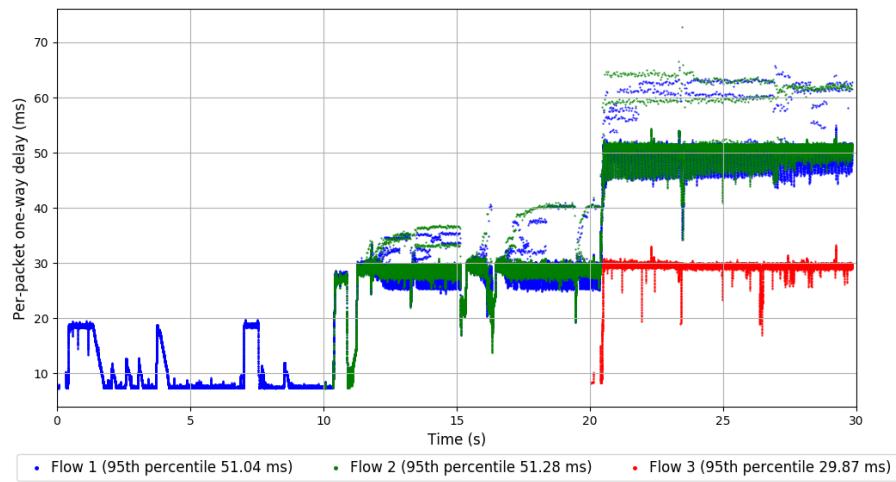
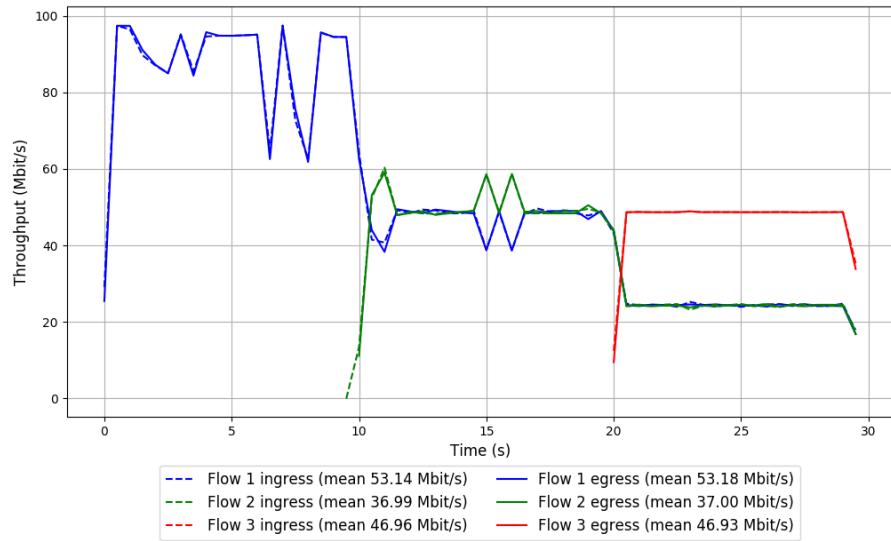


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-04-17 14:12:26
End at: 2018-04-17 14:12:56
Local clock offset: -5.515 ms
Remote clock offset: 0.496 ms

# Below is generated by plot.py at 2018-04-17 20:08:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 53.18 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 51.283 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 46.93 Mbit/s
95th percentile per-packet one-way delay: 29.869 ms
Loss rate: 0.47%
```

Run 4: Report of QUIC Cubic — Data Link

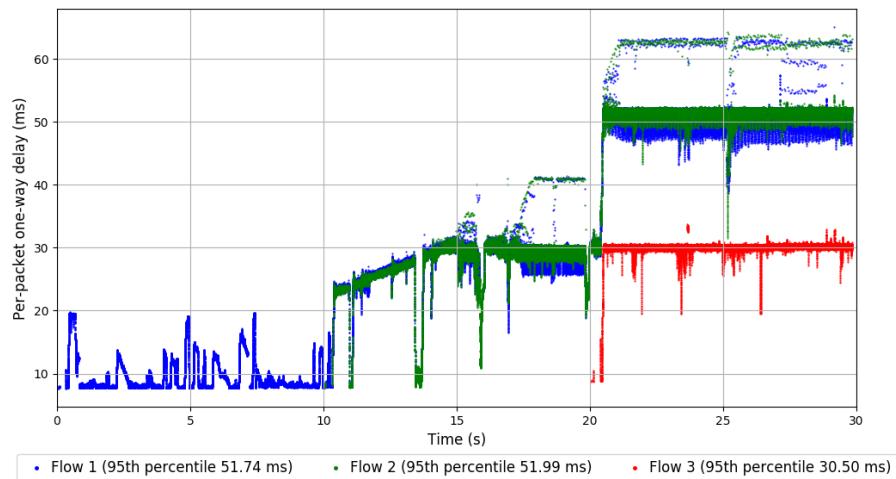
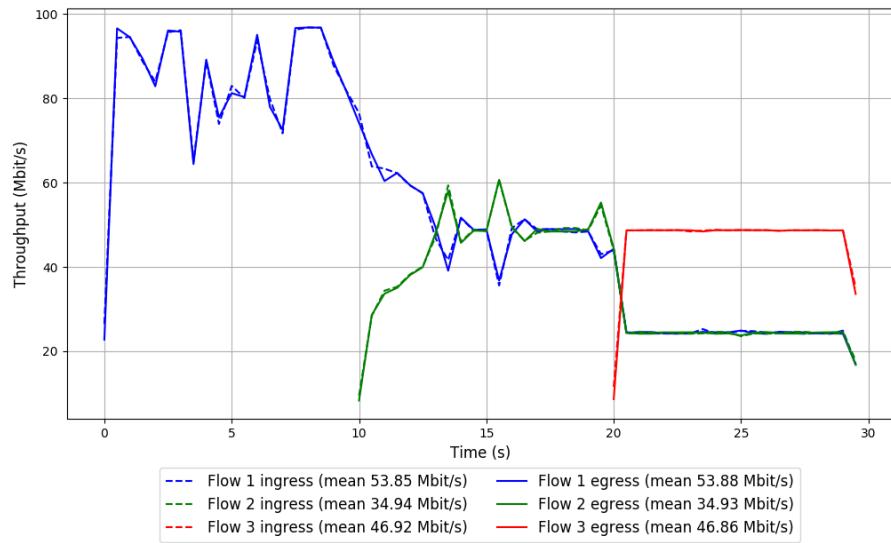


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-04-17 14:33:19
End at: 2018-04-17 14:33:49
Local clock offset: -7.569 ms
Remote clock offset: -5.66 ms

# Below is generated by plot.py at 2018-04-17 20:08:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.47 Mbit/s
95th percentile per-packet one-way delay: 51.824 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 53.88 Mbit/s
95th percentile per-packet one-way delay: 51.736 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: 51.989 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 46.86 Mbit/s
95th percentile per-packet one-way delay: 30.497 ms
Loss rate: 0.48%
```

Run 5: Report of QUIC Cubic — Data Link

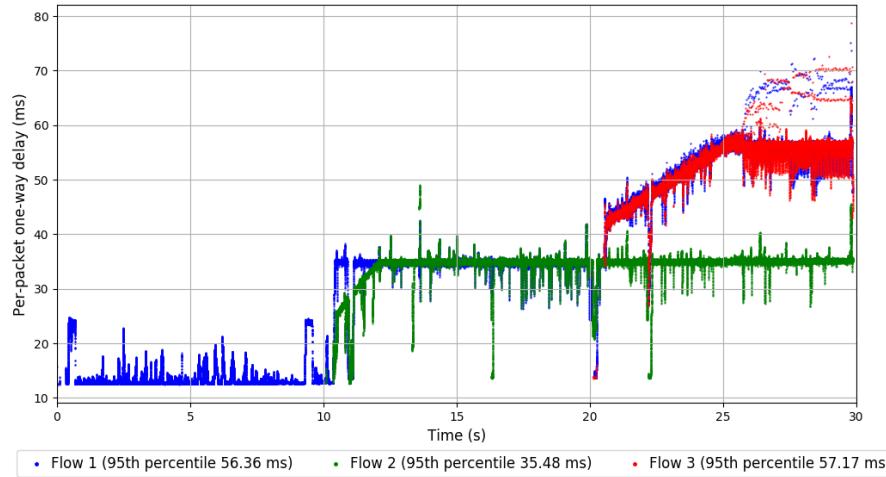
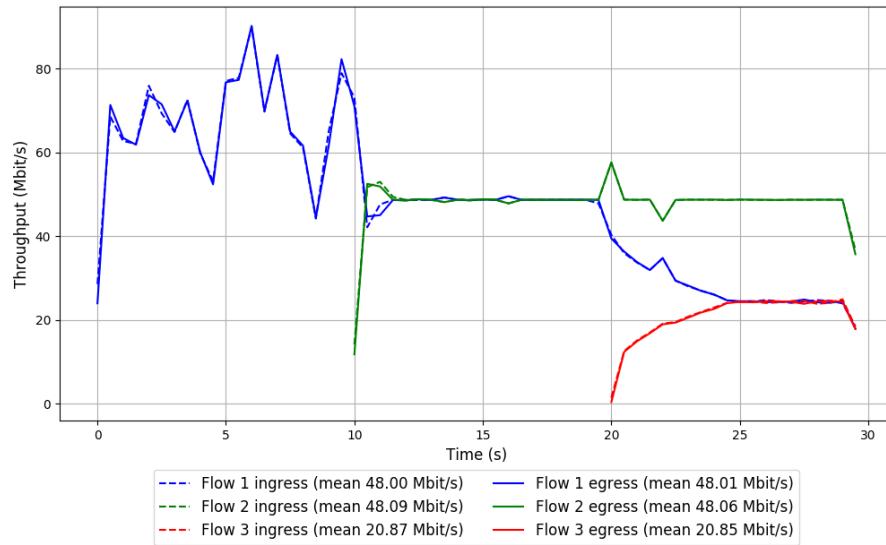


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-04-17 14:54:44
End at: 2018-04-17 14:55:14
Local clock offset: -13.068 ms
Remote clock offset: -8.911 ms

# Below is generated by plot.py at 2018-04-17 20:08:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.79 Mbit/s
95th percentile per-packet one-way delay: 56.345 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 48.01 Mbit/s
95th percentile per-packet one-way delay: 56.360 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 48.06 Mbit/s
95th percentile per-packet one-way delay: 35.475 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 57.171 ms
Loss rate: 0.80%
```

Run 6: Report of QUIC Cubic — Data Link

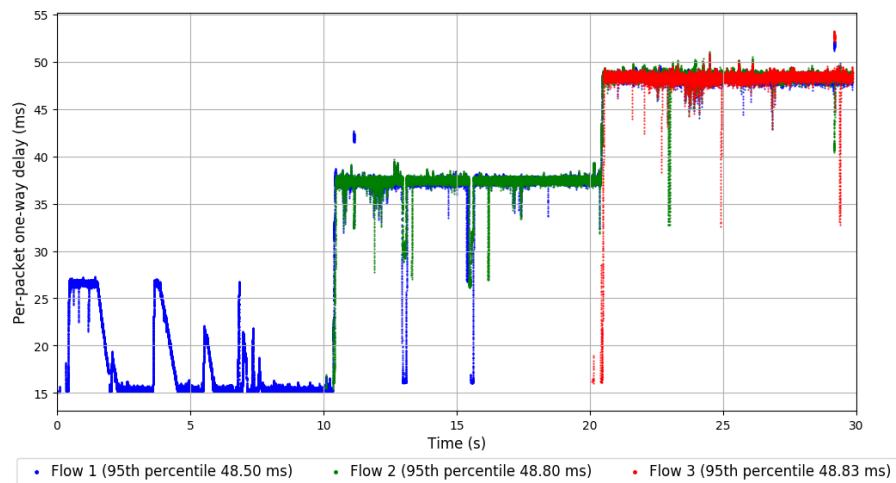
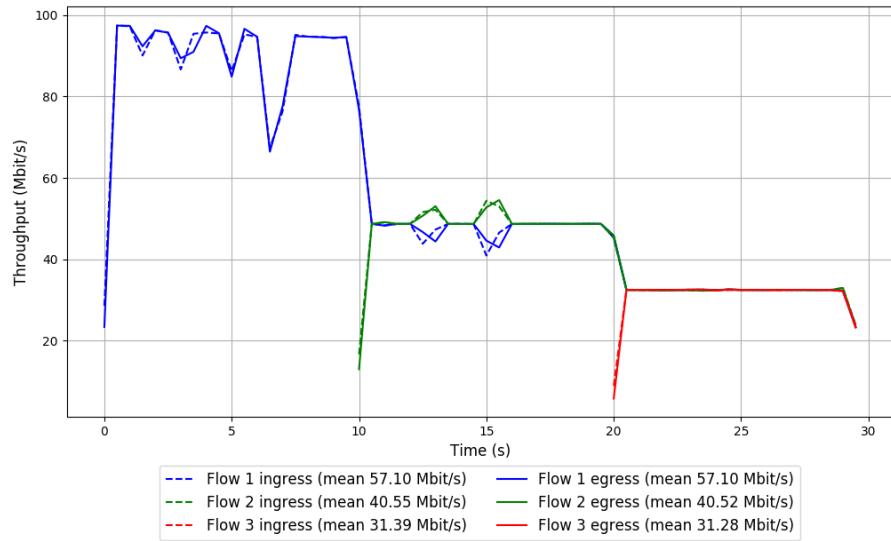


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-04-17 15:16:47
End at: 2018-04-17 15:17:17
Local clock offset: -10.589 ms
Remote clock offset: -5.066 ms

# Below is generated by plot.py at 2018-04-17 20:08:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 48.725 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 57.10 Mbit/s
95th percentile per-packet one-way delay: 48.503 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.52 Mbit/s
95th percentile per-packet one-way delay: 48.805 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.28 Mbit/s
95th percentile per-packet one-way delay: 48.825 ms
Loss rate: 0.59%
```

Run 7: Report of QUIC Cubic — Data Link

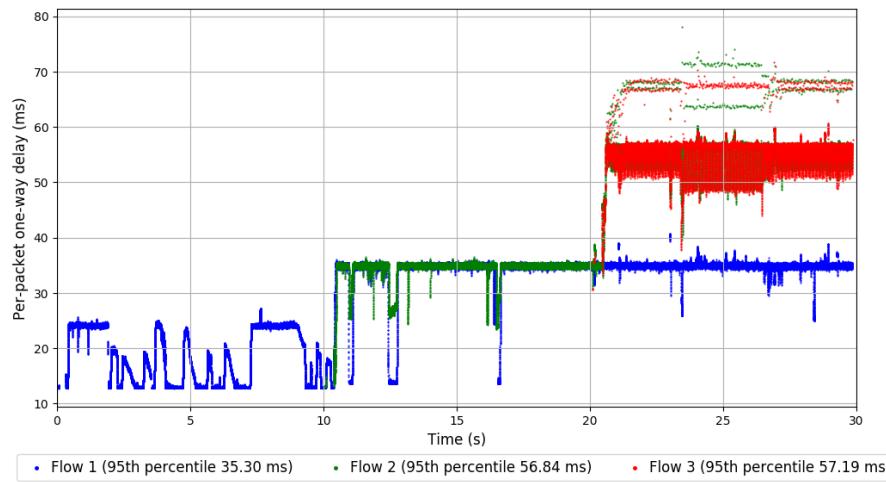
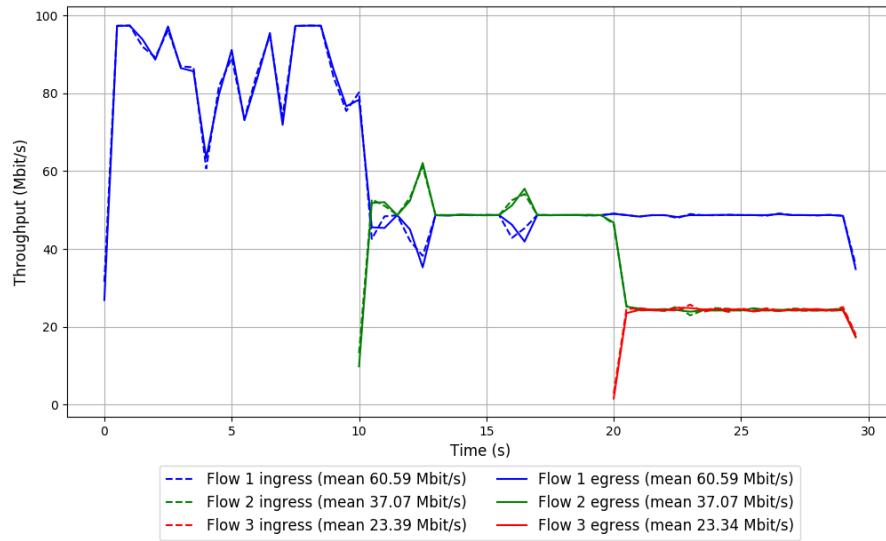


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-04-17 15:38:42
End at: 2018-04-17 15:39:12
Local clock offset: -13.556 ms
Remote clock offset: -12.324 ms

# Below is generated by plot.py at 2018-04-17 20:08:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 56.692 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 35.299 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 37.07 Mbit/s
95th percentile per-packet one-way delay: 56.843 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 57.189 ms
Loss rate: 0.75%
```

Run 8: Report of QUIC Cubic — Data Link

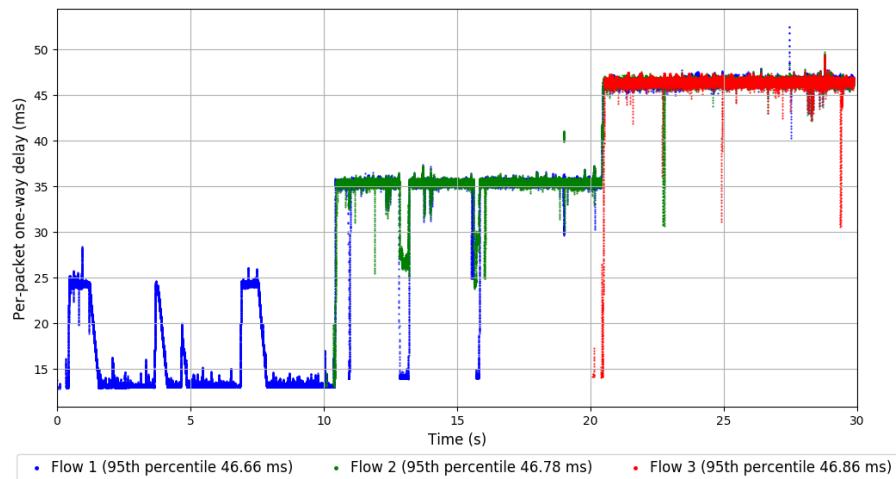
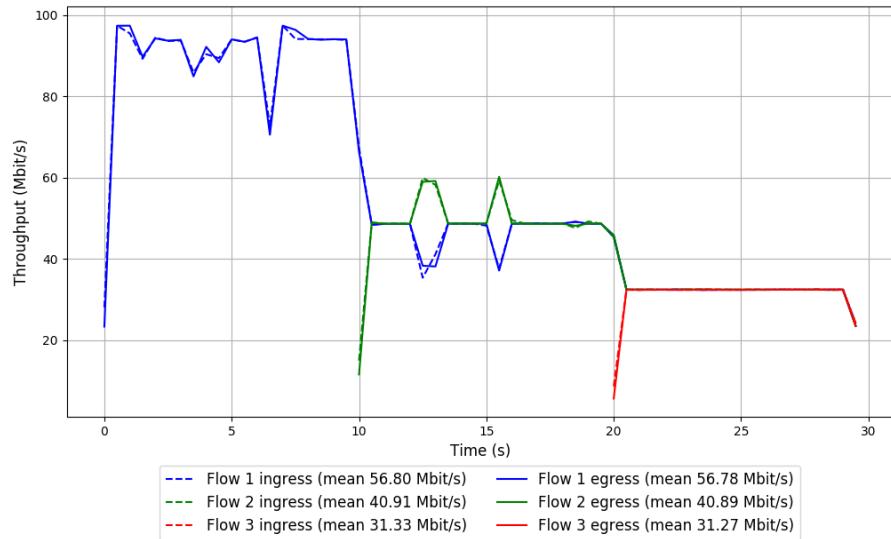


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-04-17 16:00:06
End at: 2018-04-17 16:00:36
Local clock offset: -15.267 ms
Remote clock offset: -14.51 ms

# Below is generated by plot.py at 2018-04-17 20:09:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 46.756 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 46.660 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.89 Mbit/s
95th percentile per-packet one-way delay: 46.781 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 46.862 ms
Loss rate: 0.60%
```

Run 9: Report of QUIC Cubic — Data Link

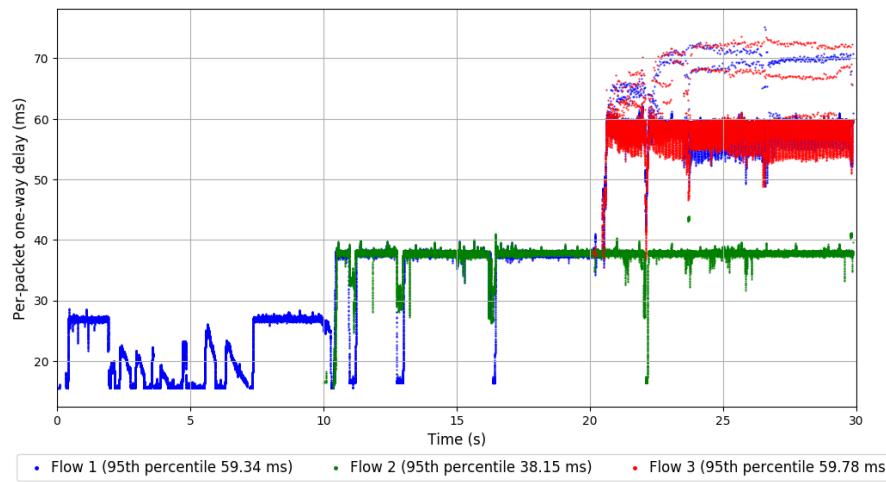
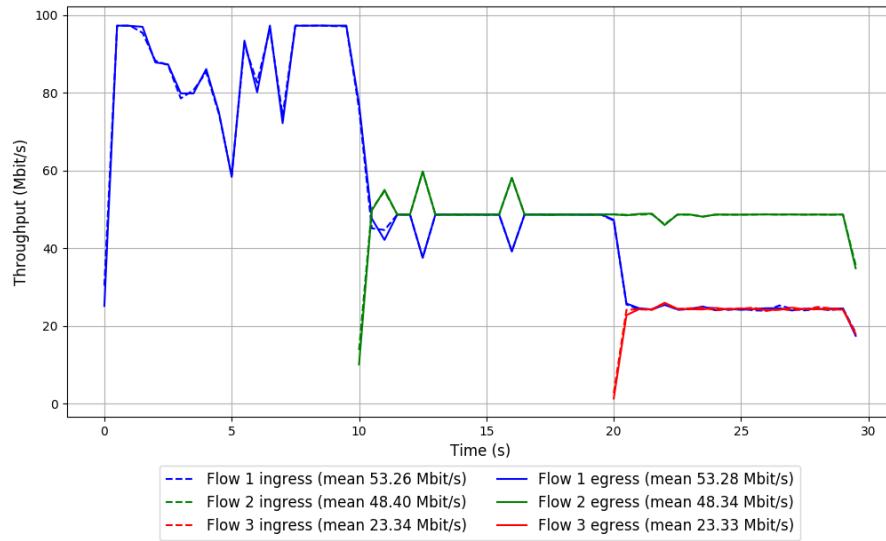


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-04-17 16:22:14
End at: 2018-04-17 16:22:44
Local clock offset: -8.503 ms
Remote clock offset: -9.928 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 59.341 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 53.28 Mbit/s
95th percentile per-packet one-way delay: 59.341 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.34 Mbit/s
95th percentile per-packet one-way delay: 38.153 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 23.33 Mbit/s
95th percentile per-packet one-way delay: 59.779 ms
Loss rate: 0.69%
```

Run 10: Report of QUIC Cubic — Data Link

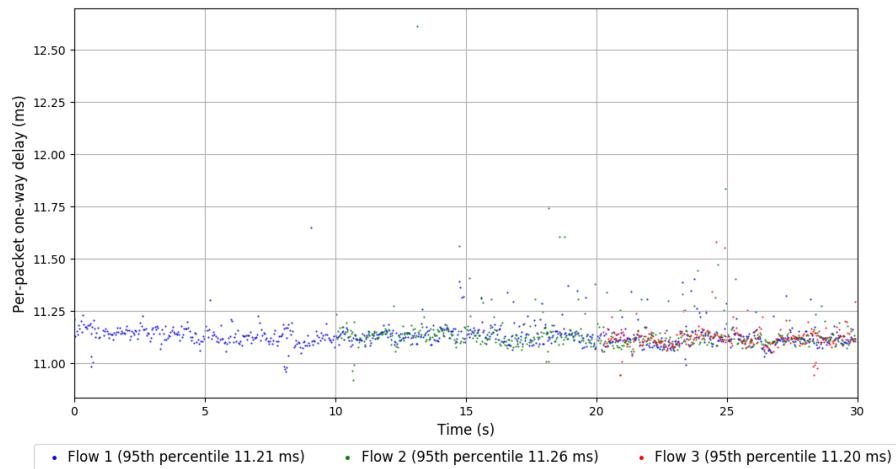
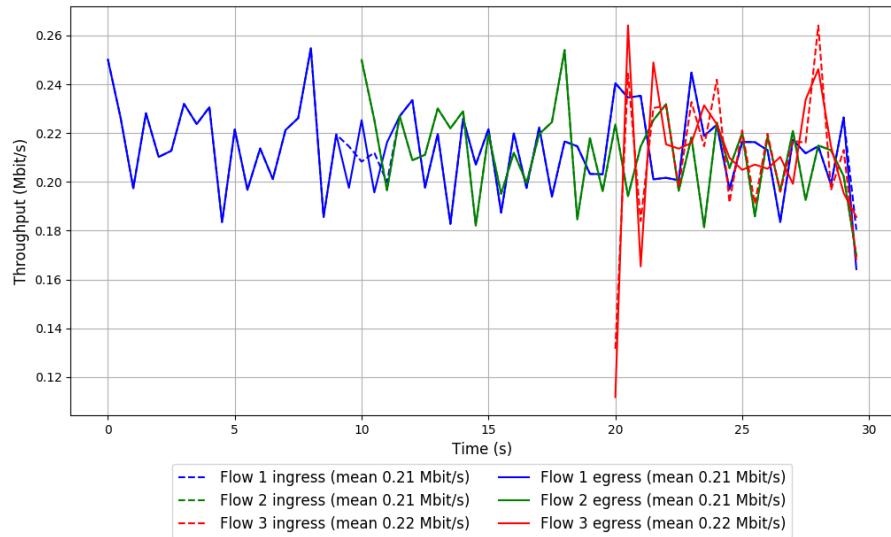


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 13:03:57
End at: 2018-04-17 13:04:27
Local clock offset: -4.709 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 11.220 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.208 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 11.200 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

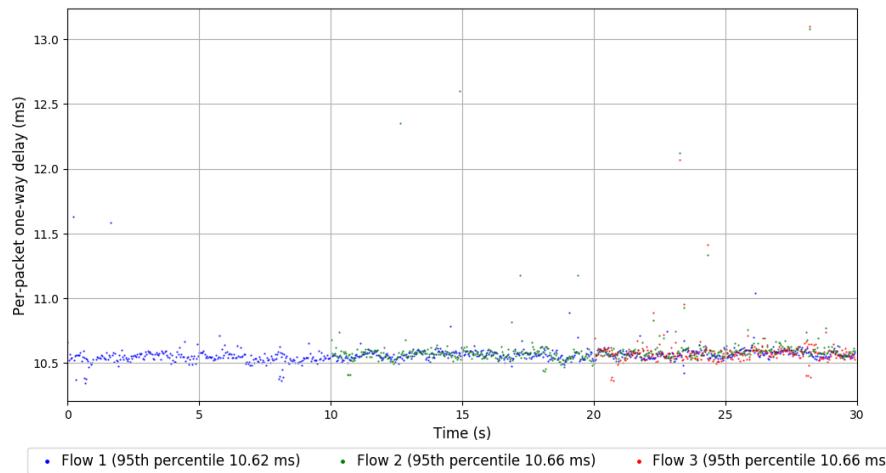
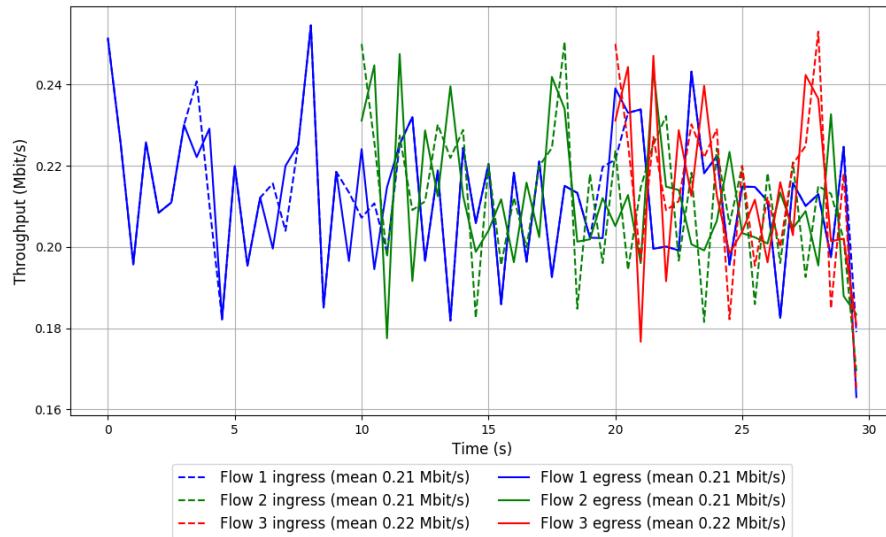


Run 2: Statistics of SCReAM

```
Start at: 2018-04-17 13:24:21
End at: 2018-04-17 13:24:51
Local clock offset: -3.68 ms
Remote clock offset: -2.102 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 10.638 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.616 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.658 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 10.661 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

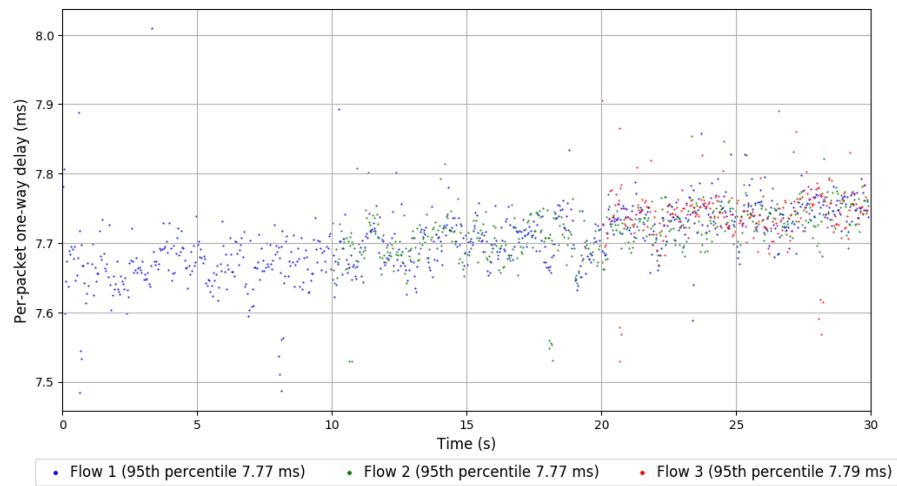
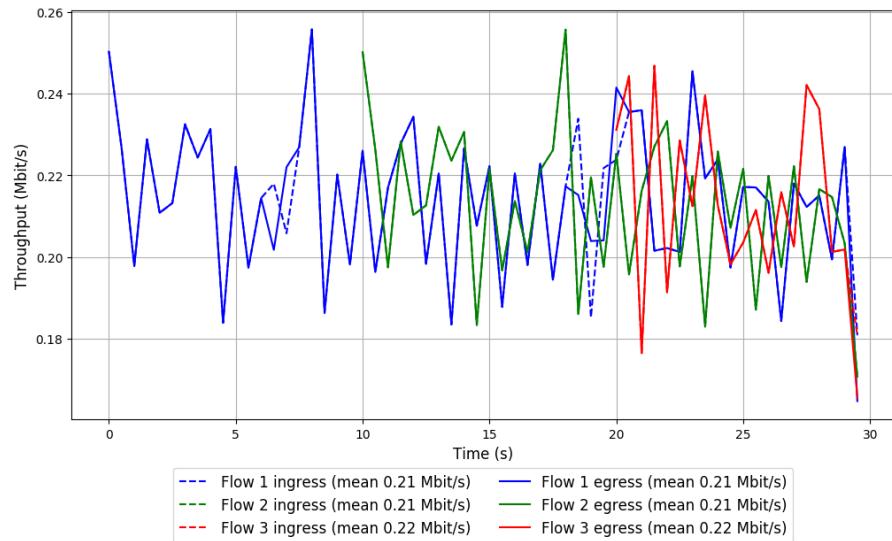


```
Run 3: Statistics of SCReAM

Start at: 2018-04-17 13:44:45
End at: 2018-04-17 13:45:15
Local clock offset: -6.892 ms
Remote clock offset: -1.181 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 7.772 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 7.768 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 7.766 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 7.787 ms
Loss rate: 0.35%
```

Run 3: Report of SCReAM — Data Link

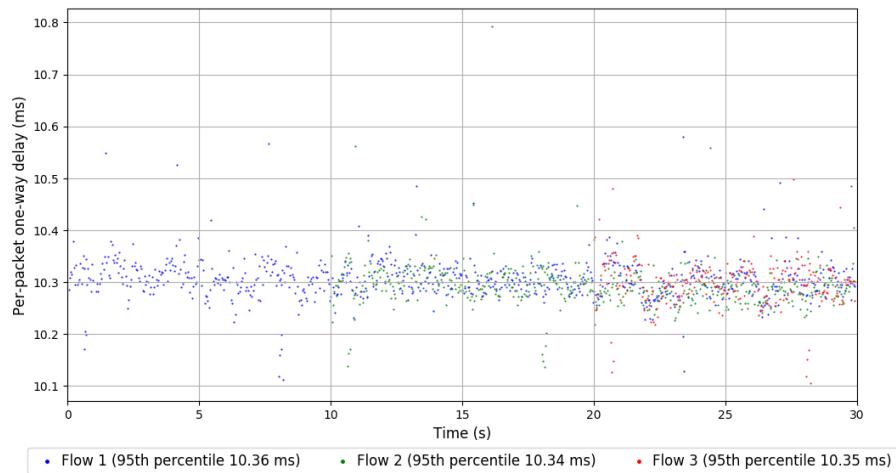
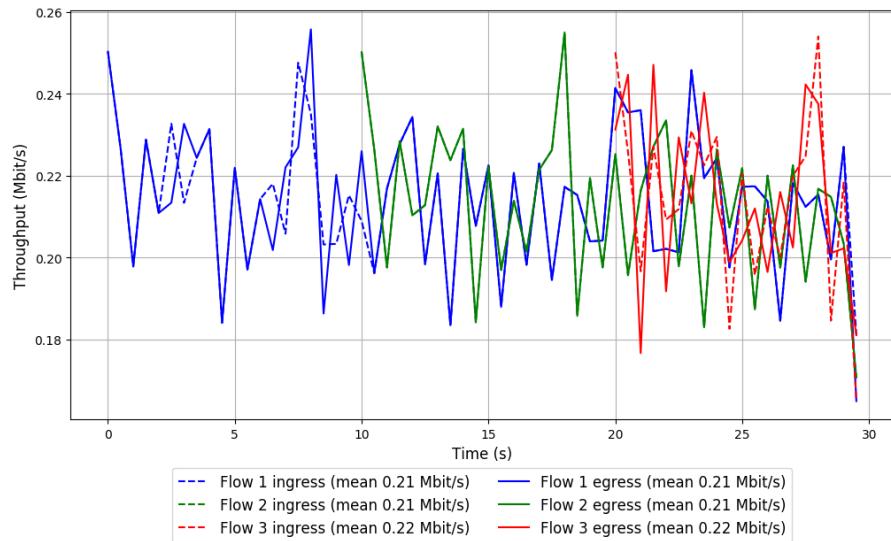


Run 4: Statistics of SCReAM

```
Start at: 2018-04-17 14:05:15
End at: 2018-04-17 14:05:45
Local clock offset: -3.783 ms
Remote clock offset: -0.335 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 10.351 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.355 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.344 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 10.350 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

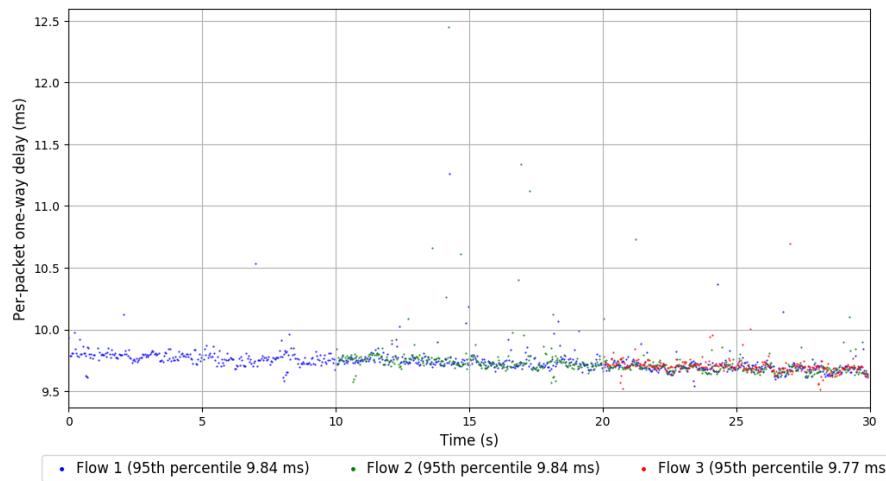
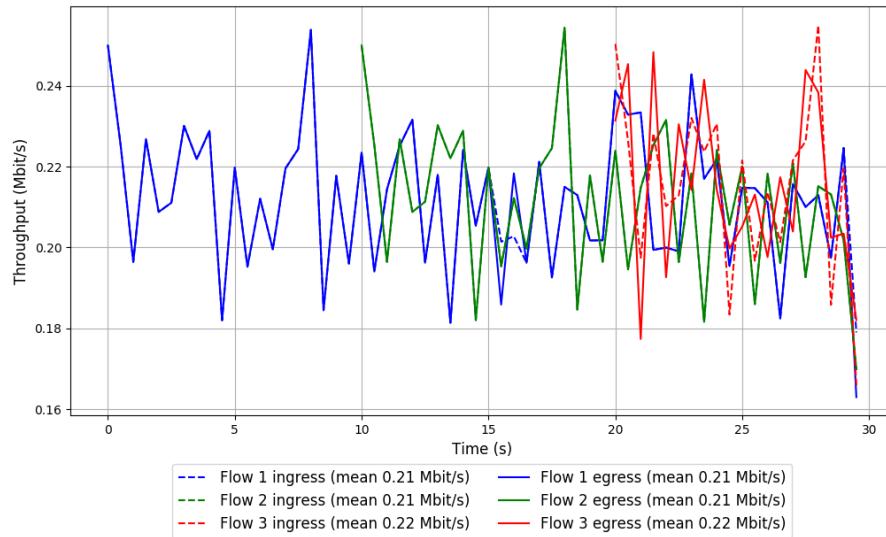


Run 5: Statistics of SCReAM

```
Start at: 2018-04-17 14:25:59
End at: 2018-04-17 14:26:29
Local clock offset: -2.557 ms
Remote clock offset: -3.885 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 9.833 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.840 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.841 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 9.765 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

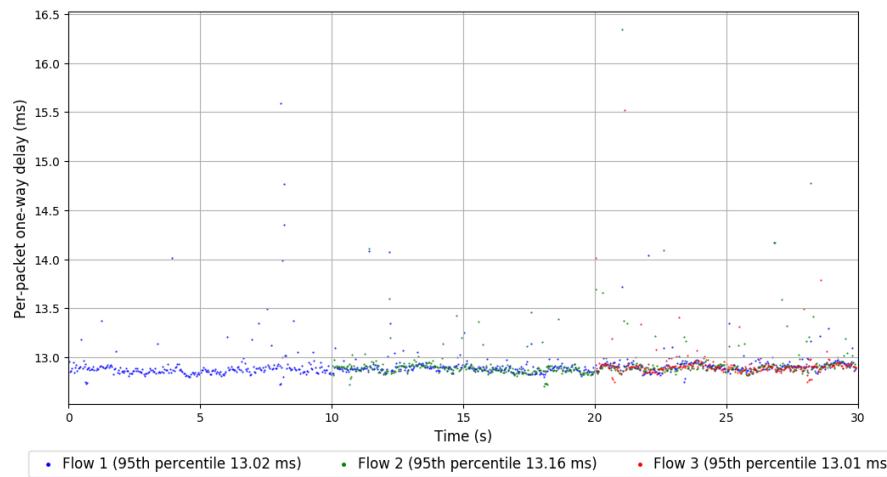
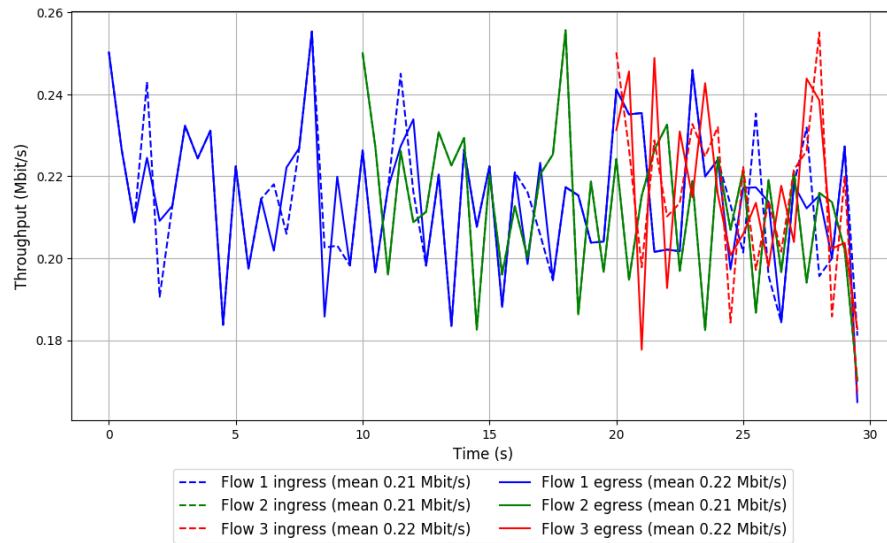


Run 6: Statistics of SCReAM

```
Start at: 2018-04-17 14:46:58
End at: 2018-04-17 14:47:28
Local clock offset: -12.195 ms
Remote clock offset: -12.494 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 13.052 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.020 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.161 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.007 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

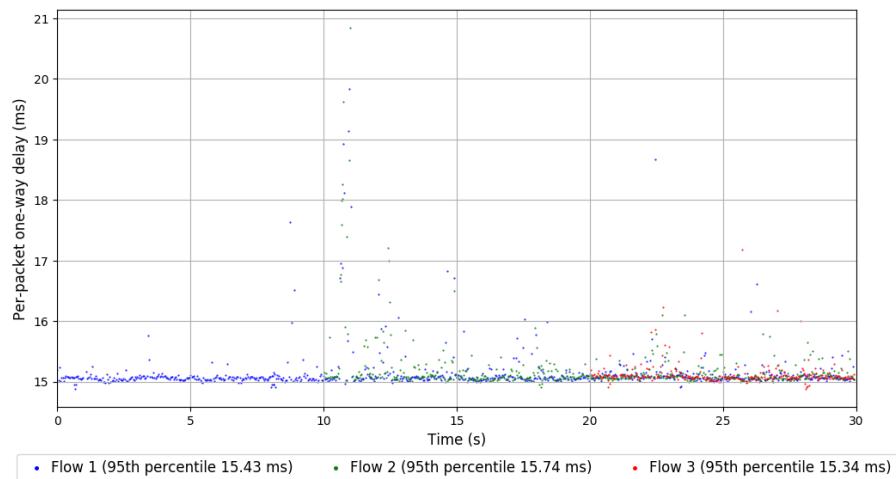
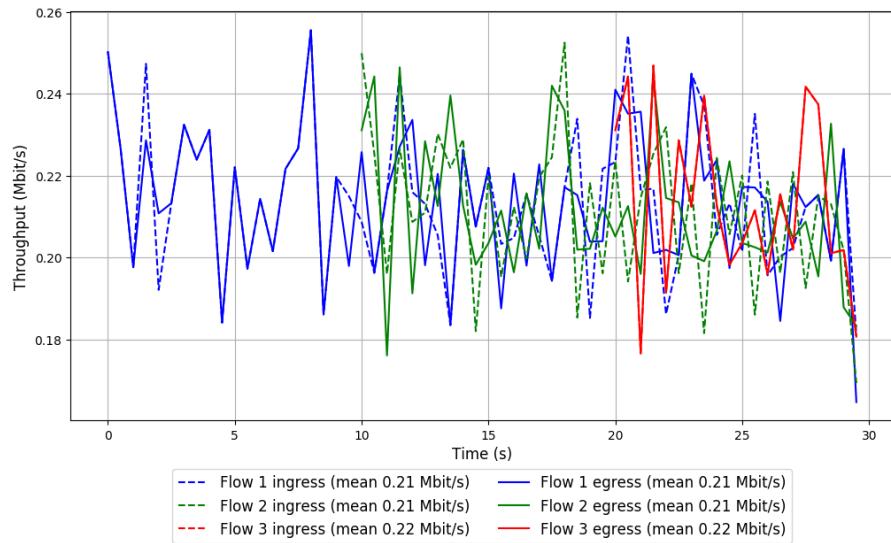


Run 7: Statistics of SCReAM

```
Start at: 2018-04-17 15:09:28
End at: 2018-04-17 15:09:58
Local clock offset: -11.135 ms
Remote clock offset: -5.845 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 15.568 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 15.428 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 15.737 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 15.340 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

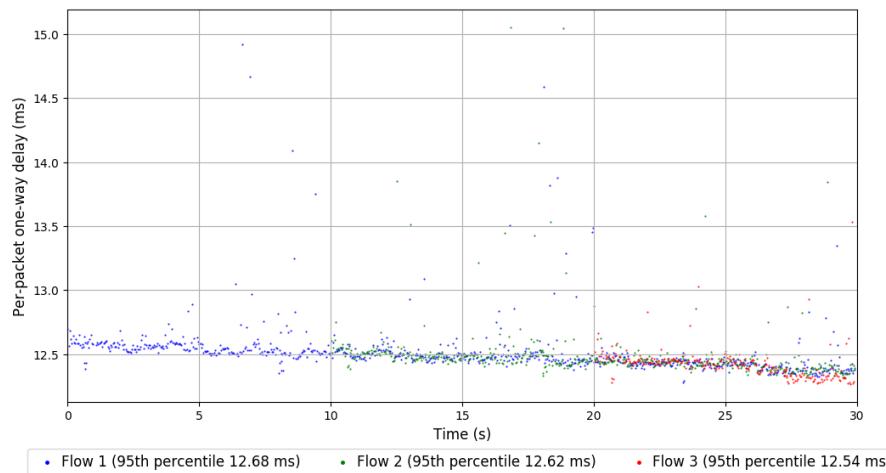
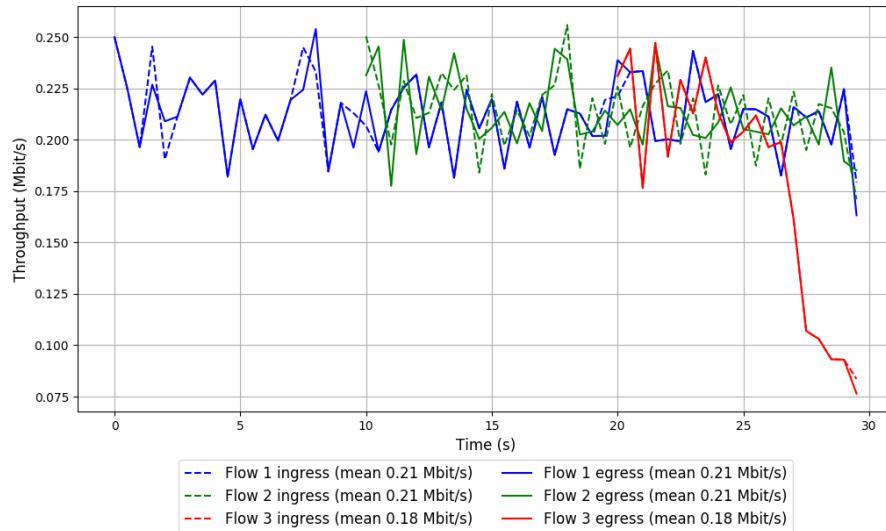


Run 8: Statistics of SCReAM

```
Start at: 2018-04-17 15:31:18
End at: 2018-04-17 15:31:48
Local clock offset: -13.746 ms
Remote clock offset: -10.043 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 12.650 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.681 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 12.617 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 12.539 ms
Loss rate: 0.19%
```

Run 8: Report of SCReAM — Data Link

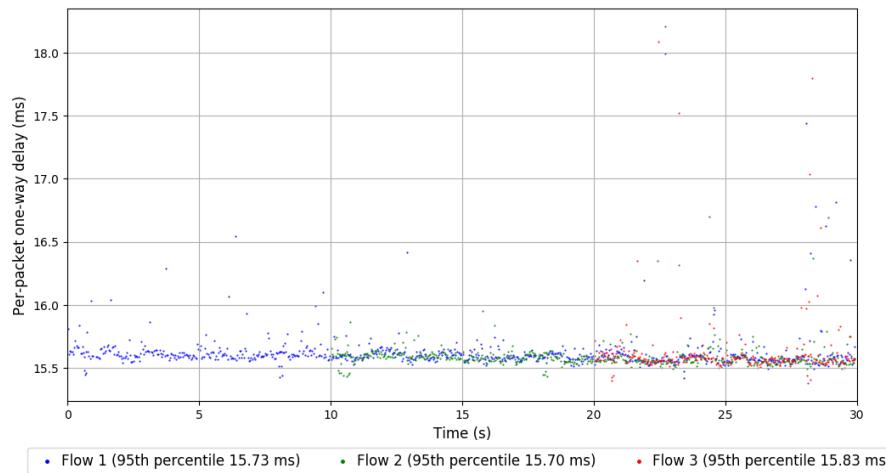
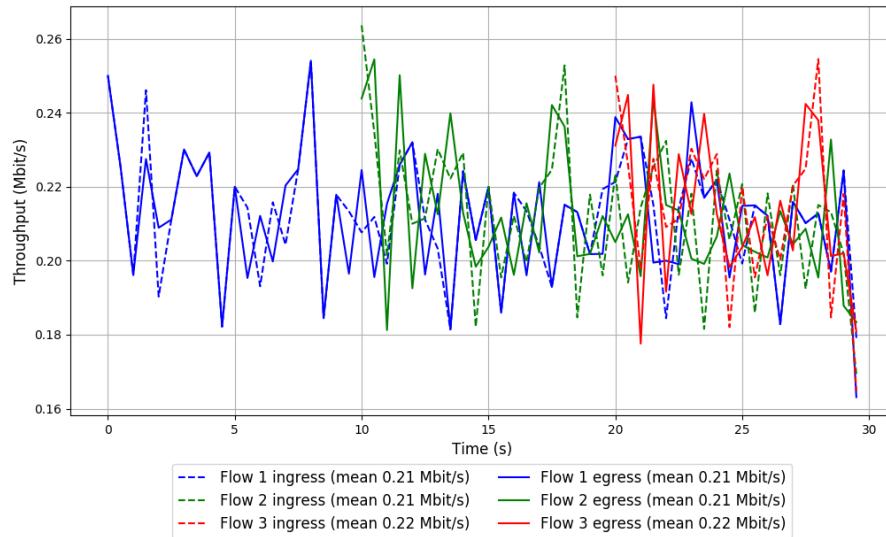


Run 9: Statistics of SCReAM

```
Start at: 2018-04-17 15:52:46
End at: 2018-04-17 15:53:16
Local clock offset: -11.812 ms
Remote clock offset: -15.204 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 15.732 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 15.734 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 15.698 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 15.829 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

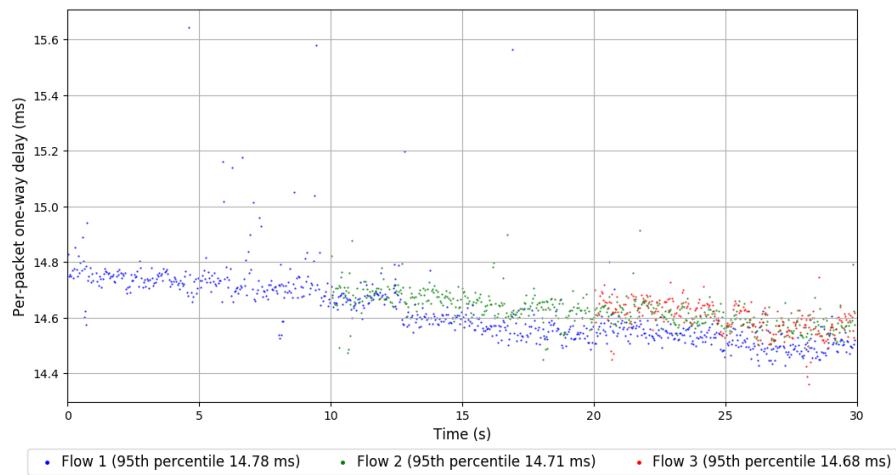
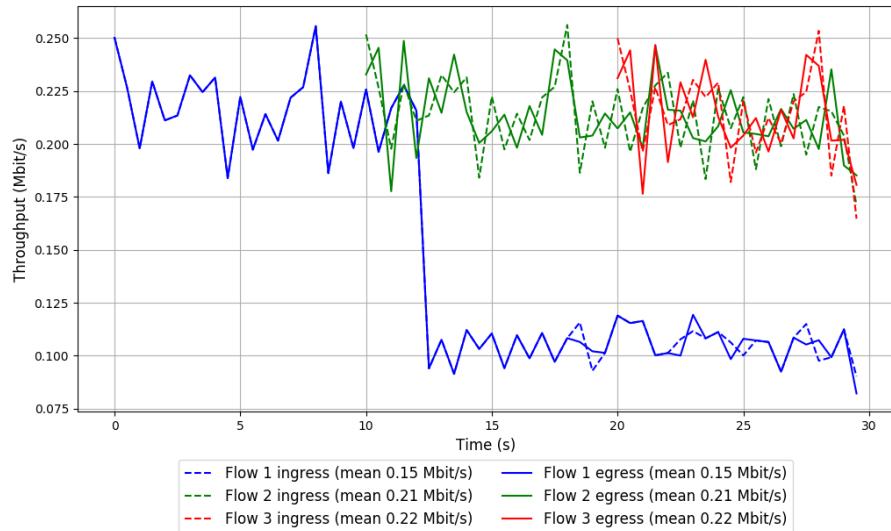


Run 10: Statistics of SCReAM

```
Start at: 2018-04-17 16:14:50
End at: 2018-04-17 16:15:20
Local clock offset: -11.631 ms
Remote clock offset: -9.89 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 14.761 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 14.778 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.710 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 14.680 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

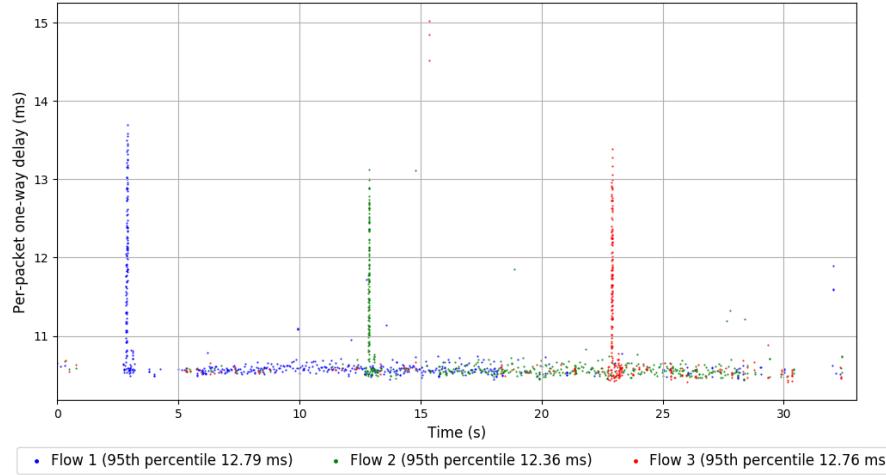
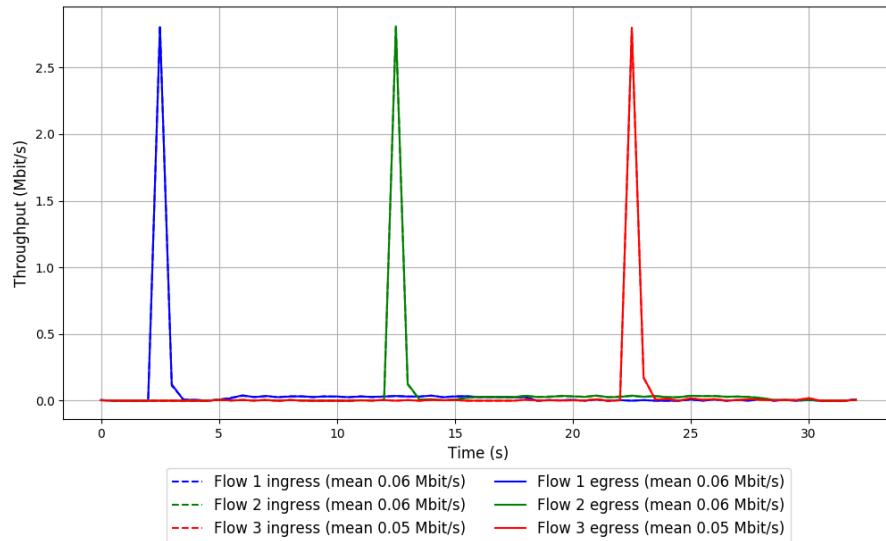


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 13:18:19
End at: 2018-04-17 13:18:49
Local clock offset: -2.777 ms
Remote clock offset: -1.365 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 12.631 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.785 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.361 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 12.762 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

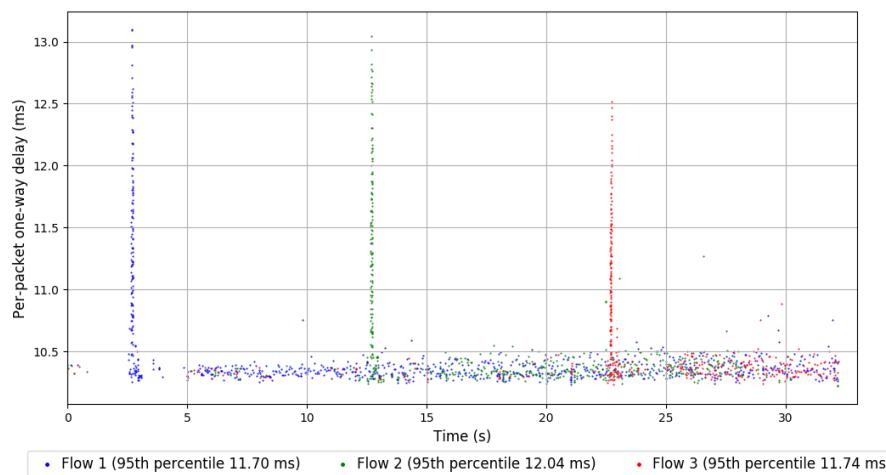
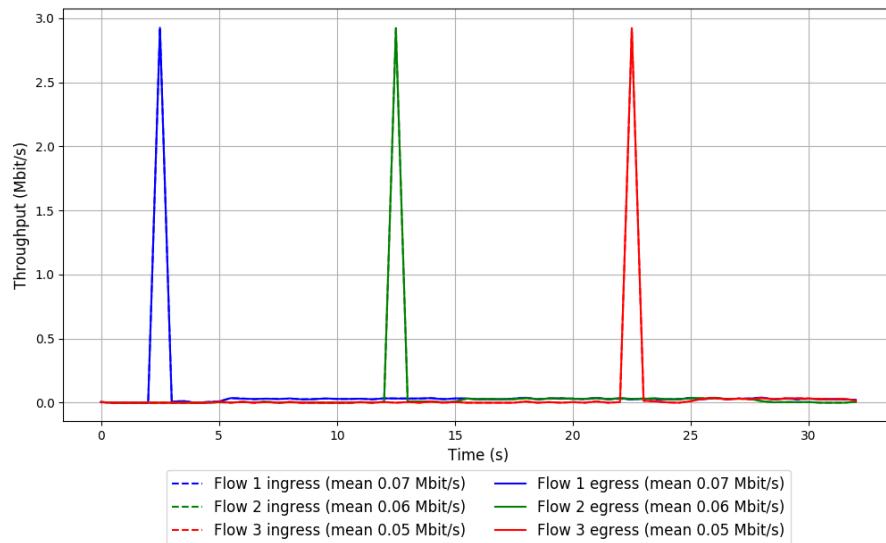


Run 2: Statistics of WebRTC media

```
Start at: 2018-04-17 13:38:52
End at: 2018-04-17 13:39:22
Local clock offset: -4.689 ms
Remote clock offset: -2.66 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 11.816 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 11.700 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.035 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.745 ms
Loss rate: 0.08%
```

Run 2: Report of WebRTC media — Data Link

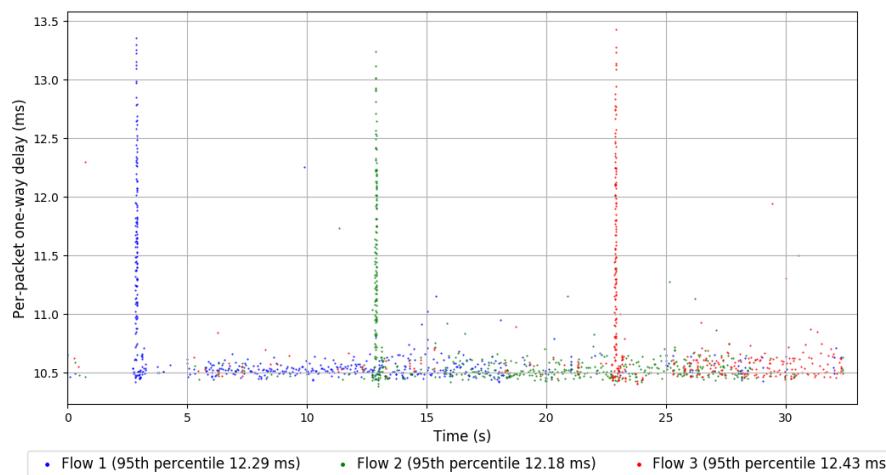
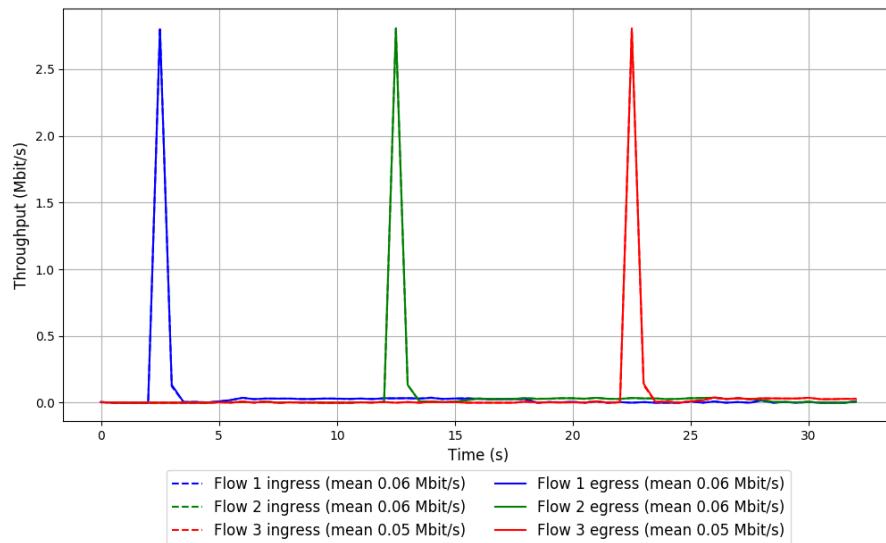


Run 3: Statistics of WebRTC media

```
Start at: 2018-04-17 13:59:11
End at: 2018-04-17 13:59:41
Local clock offset: -4.52 ms
Remote clock offset: -1.101 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 12.260 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.295 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.182 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 12.433 ms
Loss rate: 0.08%
```

Run 3: Report of WebRTC media — Data Link

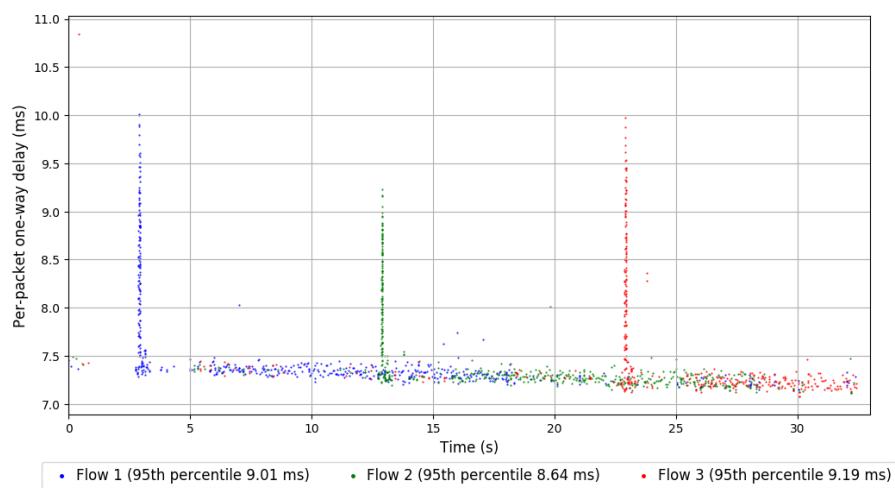
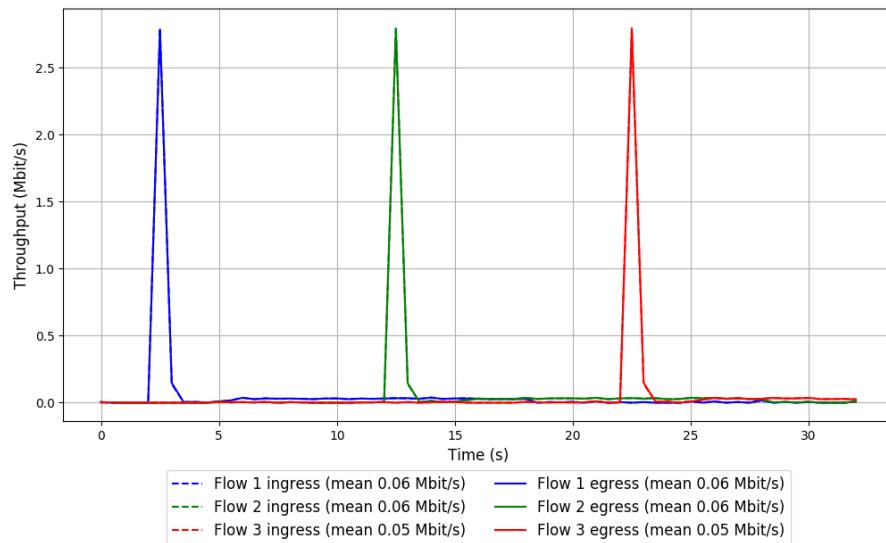


Run 4: Statistics of WebRTC media

```
Start at: 2018-04-17 14:19:48
End at: 2018-04-17 14:20:18
Local clock offset: -5.165 ms
Remote clock offset: -2.087 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 8.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 9.013 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 8.643 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.187 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

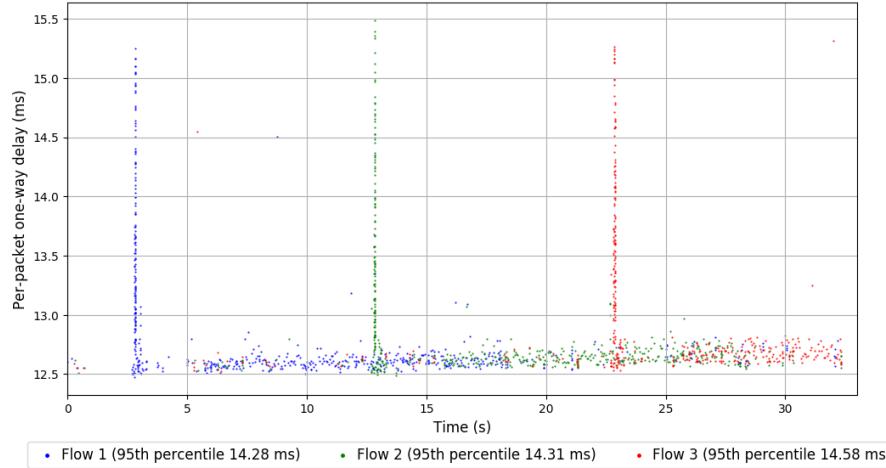
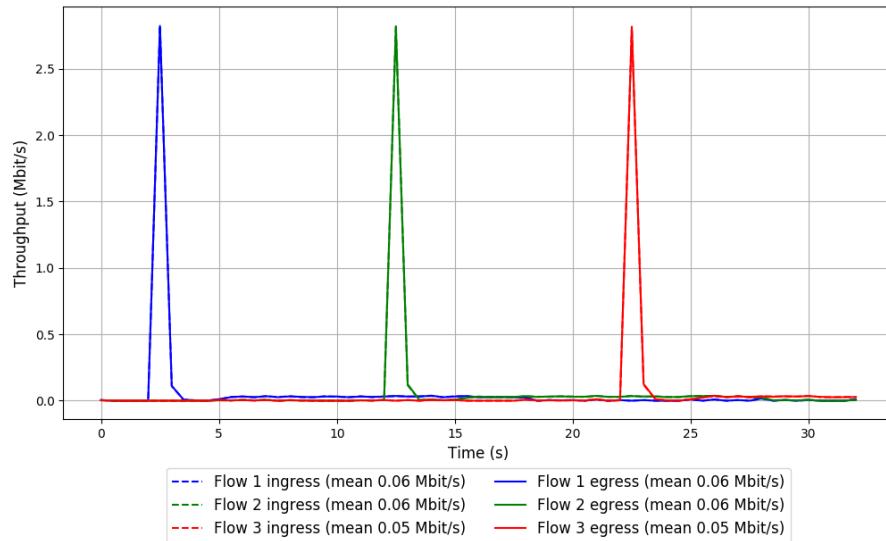


Run 5: Statistics of WebRTC media

```
Start at: 2018-04-17 14:40:34
End at: 2018-04-17 14:41:04
Local clock offset: -10.528 ms
Remote clock offset: -11.42 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 14.365 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.278 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.308 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 14.583 ms
Loss rate: 0.08%
```

Run 5: Report of WebRTC media — Data Link

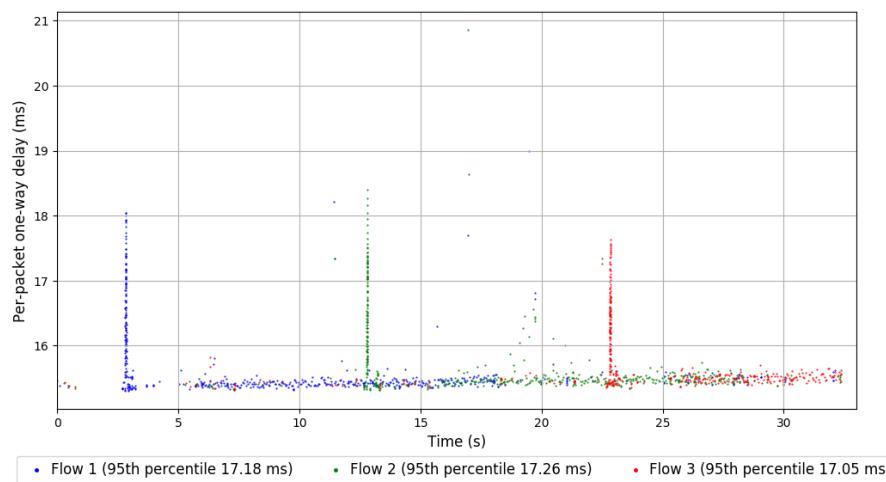
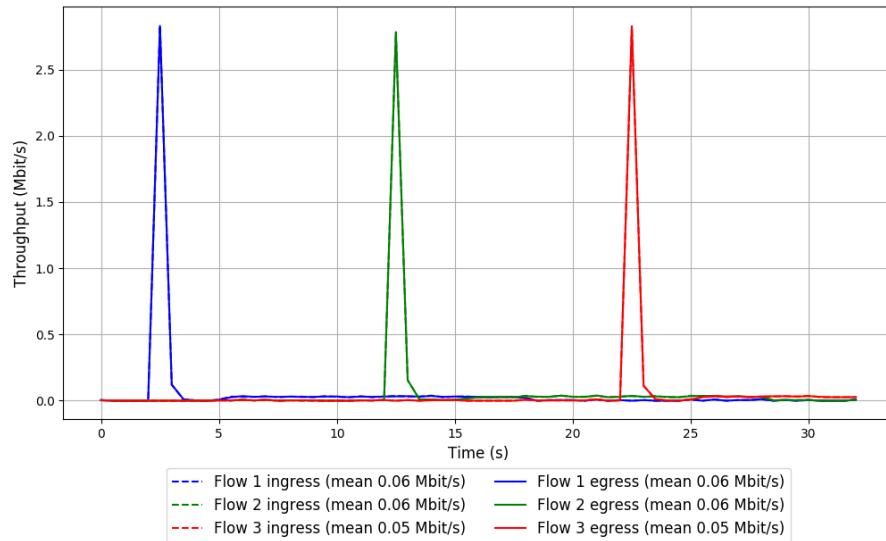


Run 6: Statistics of WebRTC media

```
Start at: 2018-04-17 15:03:14
End at: 2018-04-17 15:03:44
Local clock offset: -10.858 ms
Remote clock offset: -6.466 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 17.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 17.185 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 17.257 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 17.052 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

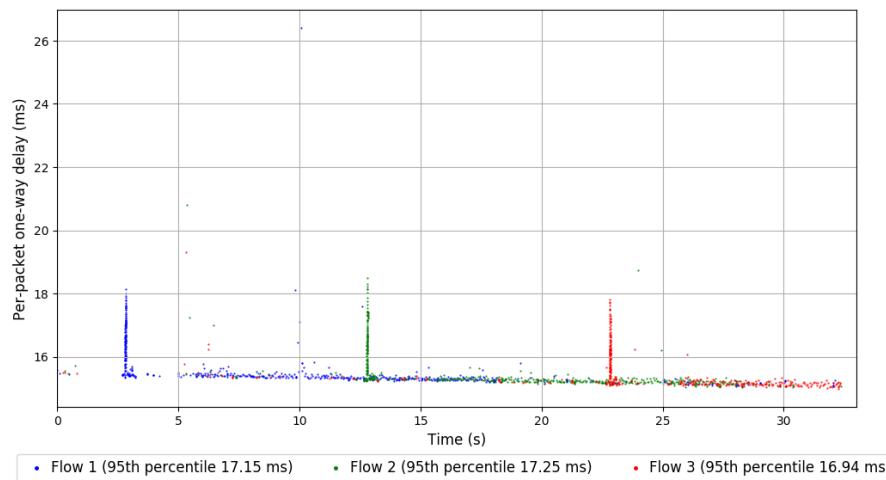
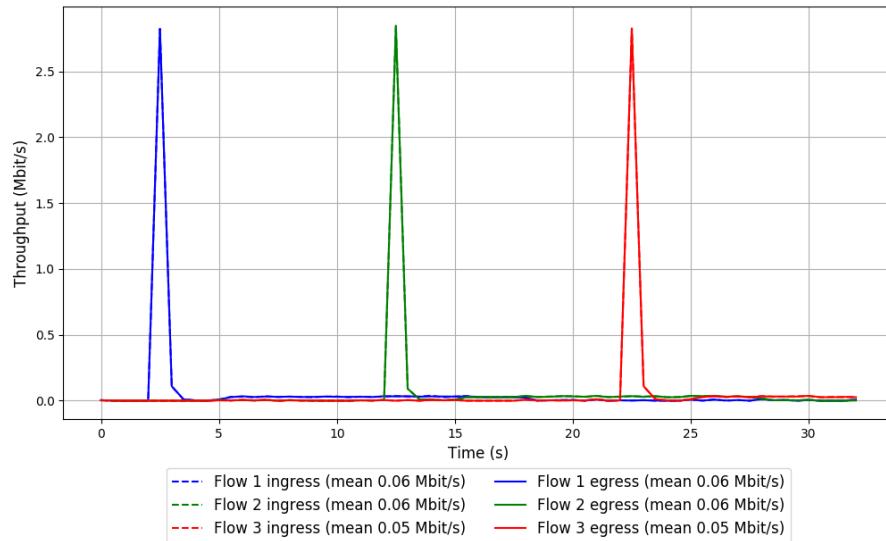


Run 7: Statistics of WebRTC media

```
Start at: 2018-04-17 15:24:36
End at: 2018-04-17 15:25:06
Local clock offset: -10.103 ms
Remote clock offset: -5.635 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 17.142 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 17.153 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 17.250 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 16.941 ms
Loss rate: 0.08%
```

Run 7: Report of WebRTC media — Data Link

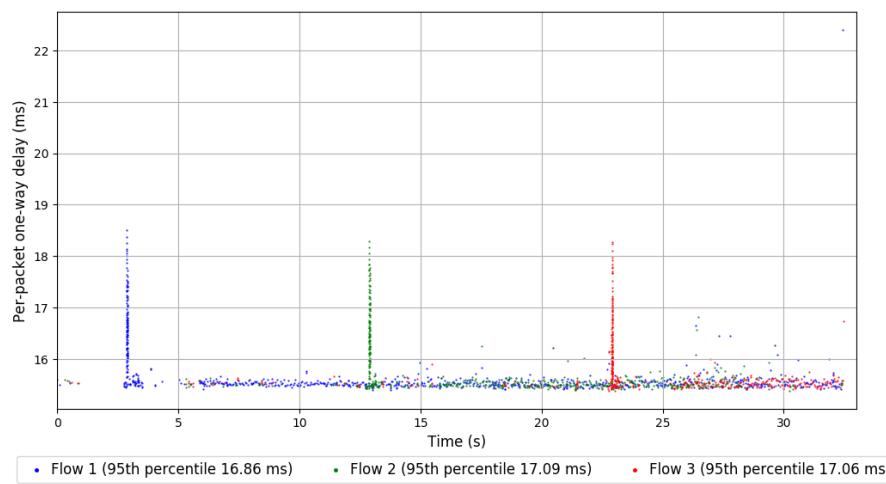
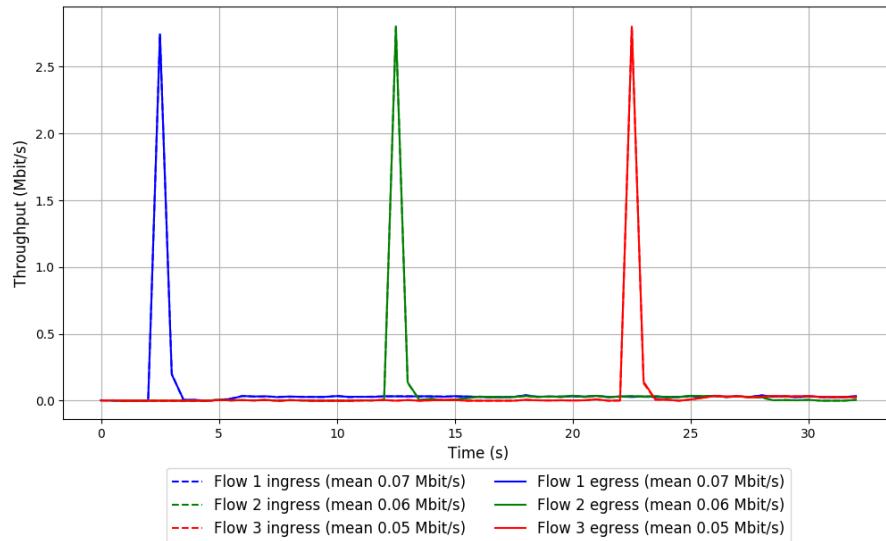


Run 8: Statistics of WebRTC media

```
Start at: 2018-04-17 15:46:27
End at: 2018-04-17 15:46:57
Local clock offset: -11.415 ms
Remote clock offset: -14.137 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 17.023 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 16.858 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 17.089 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 17.056 ms
Loss rate: 0.08%
```

Run 8: Report of WebRTC media — Data Link

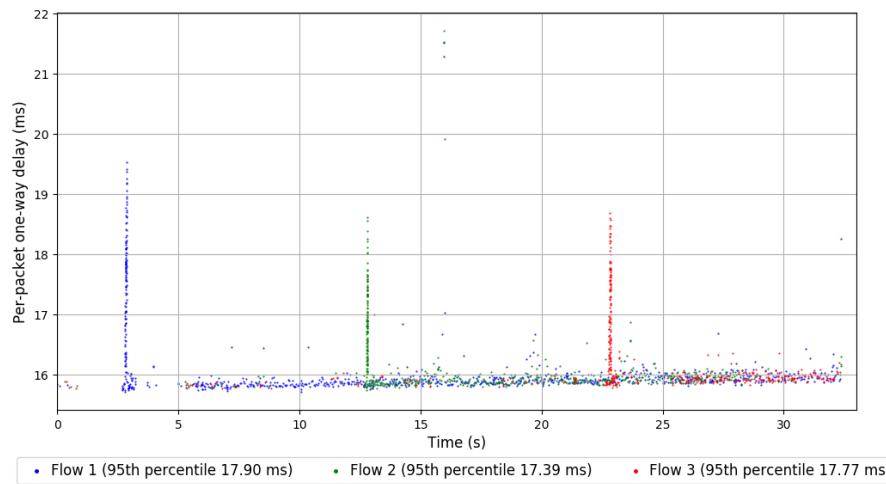
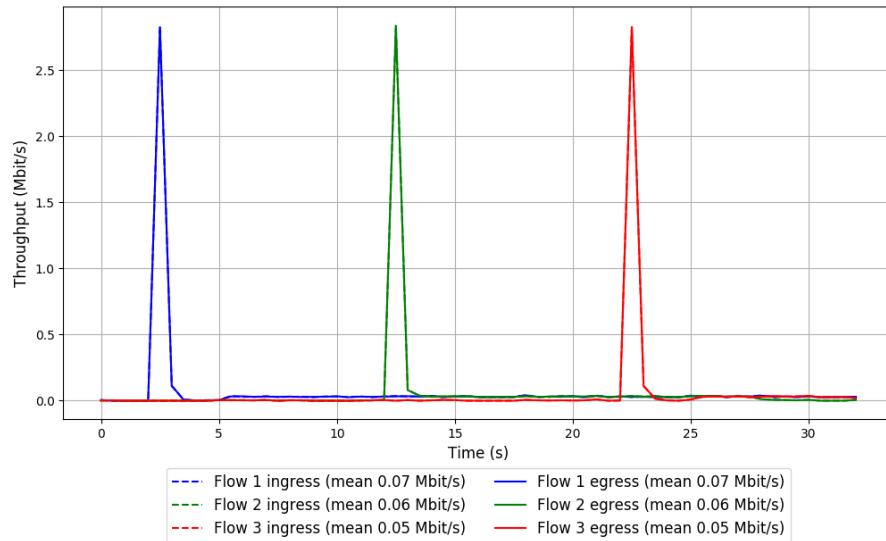


Run 9: Statistics of WebRTC media

```
Start at: 2018-04-17 16:08:17
End at: 2018-04-17 16:08:47
Local clock offset: -12.105 ms
Remote clock offset: -10.924 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 17.750 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 17.897 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 17.395 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 17.765 ms
Loss rate: 0.12%
```

Run 9: Report of WebRTC media — Data Link

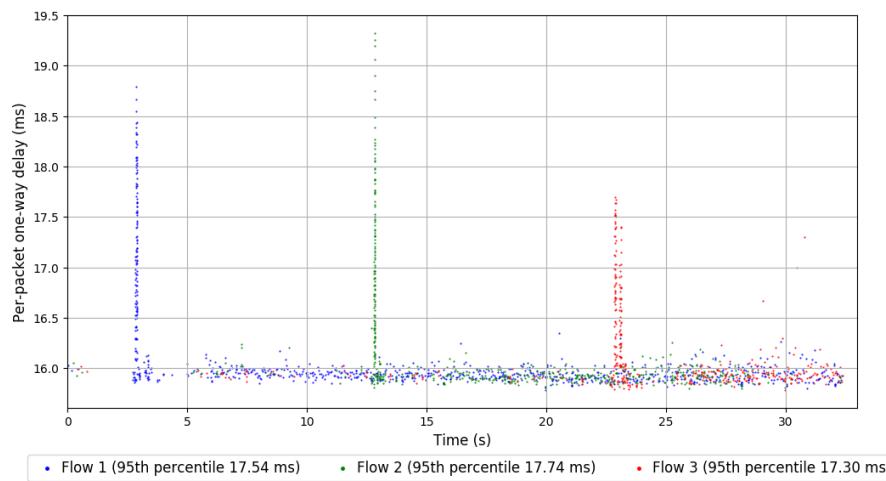
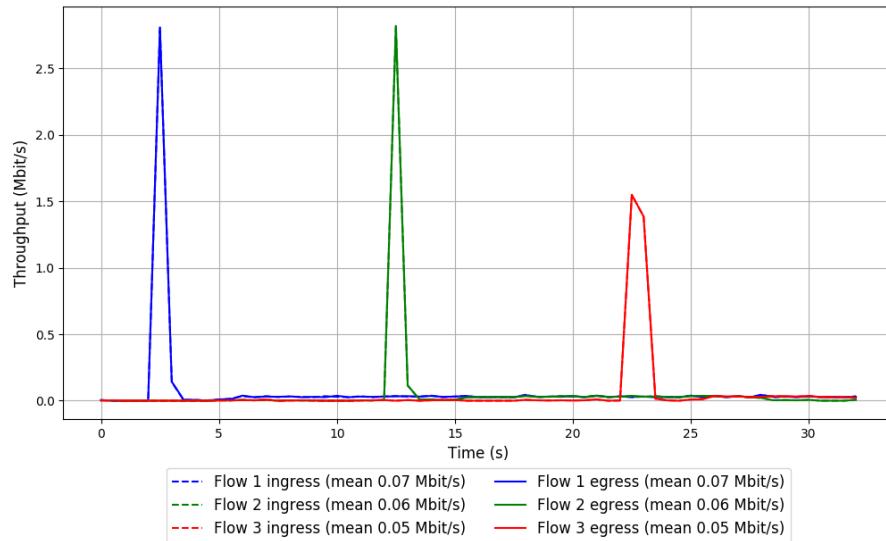


Run 10: Statistics of WebRTC media

```
Start at: 2018-04-17 16:30:24
End at: 2018-04-17 16:30:54
Local clock offset: -6.67 ms
Remote clock offset: -10.179 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 17.499 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 17.541 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 17.737 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 17.301 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

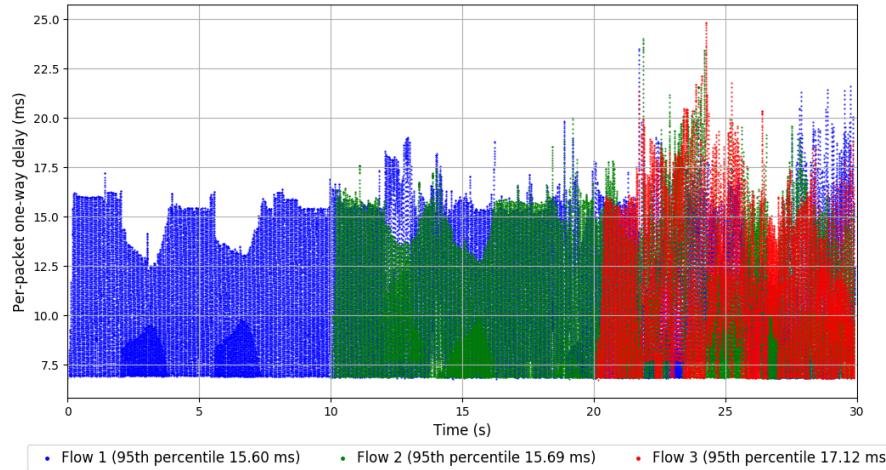
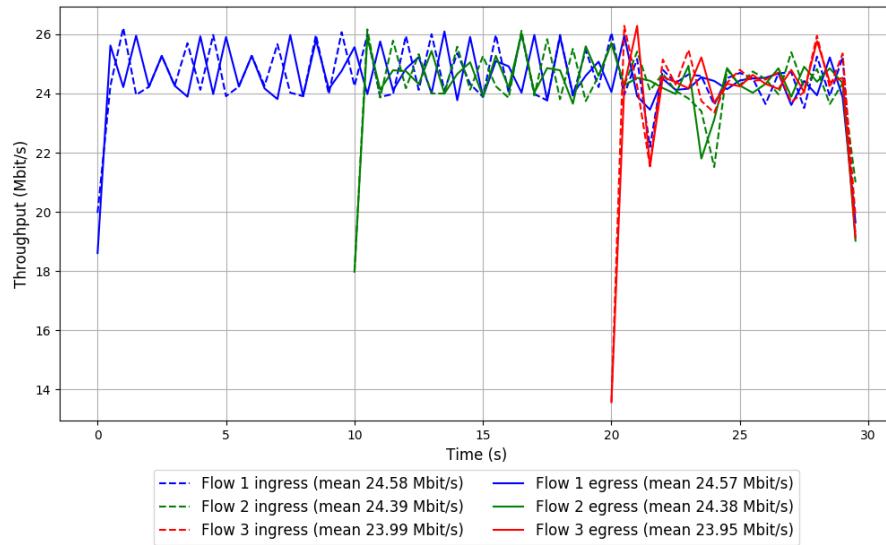


Run 1: Statistics of Sprout

```
Start at: 2018-04-17 13:20:41
End at: 2018-04-17 13:21:11
Local clock offset: -5.29 ms
Remote clock offset: -0.447 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.68 Mbit/s
95th percentile per-packet one-way delay: 15.842 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 15.597 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 15.688 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 17.123 ms
Loss rate: 0.32%
```

Run 1: Report of Sprout — Data Link

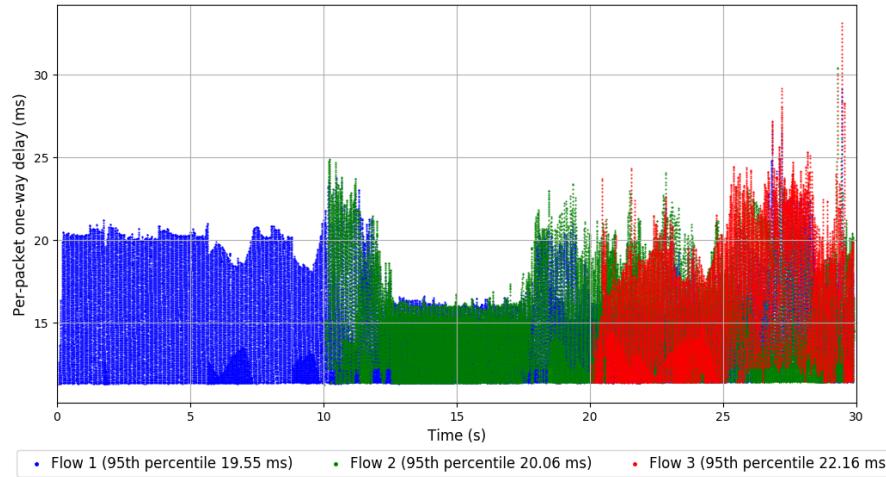
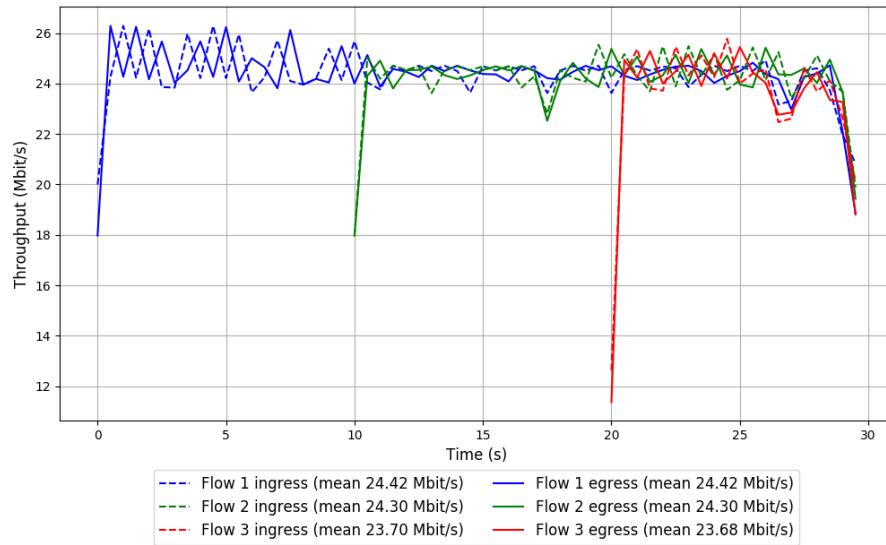


Run 2: Statistics of Sprout

```
Start at: 2018-04-17 13:41:07
End at: 2018-04-17 13:41:37
Local clock offset: -4.899 ms
Remote clock offset: -3.675 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.36 Mbit/s
95th percentile per-packet one-way delay: 20.188 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 19.548 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 20.061 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 22.163 ms
Loss rate: 0.43%
```

Run 2: Report of Sprout — Data Link

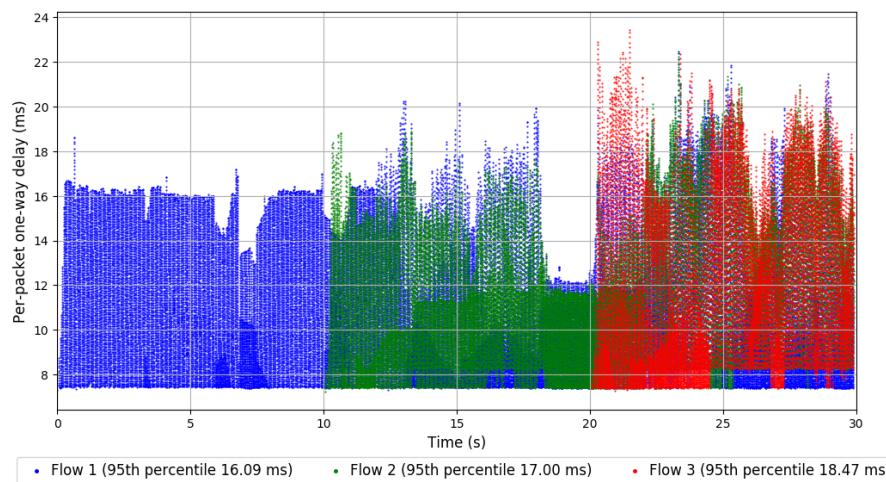
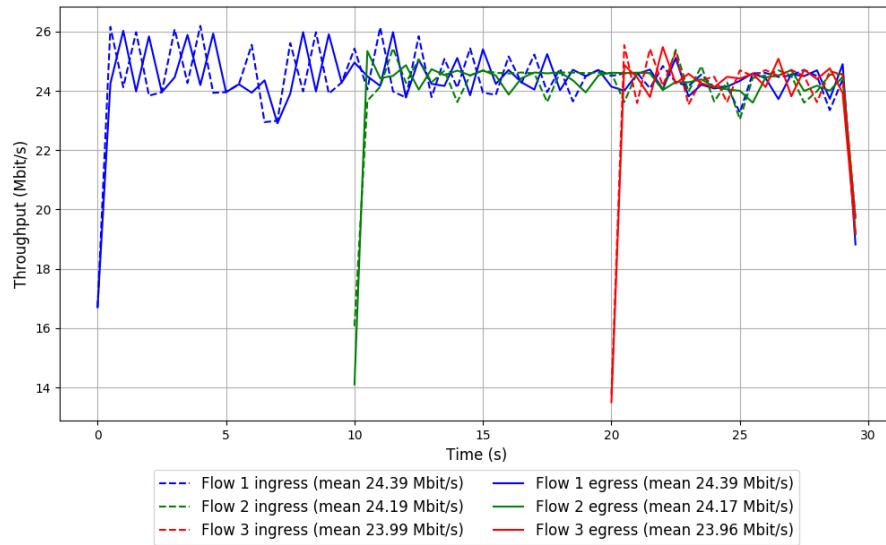


Run 3: Statistics of Sprout

```
Start at: 2018-04-17 14:01:30
End at: 2018-04-17 14:02:00
Local clock offset: -5.981 ms
Remote clock offset: 0.543 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.37 Mbit/s
95th percentile per-packet one-way delay: 16.980 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.39 Mbit/s
95th percentile per-packet one-way delay: 16.085 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 17.000 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 18.466 ms
Loss rate: 0.24%
```

Run 3: Report of Sprout — Data Link

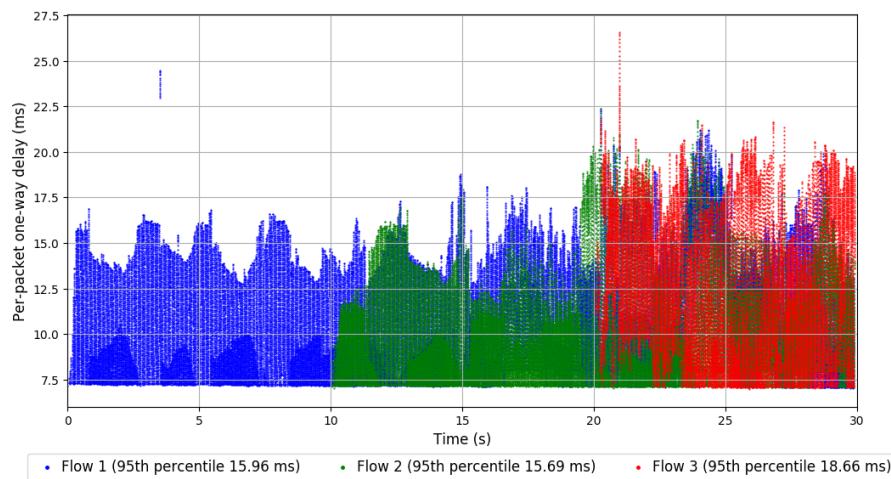
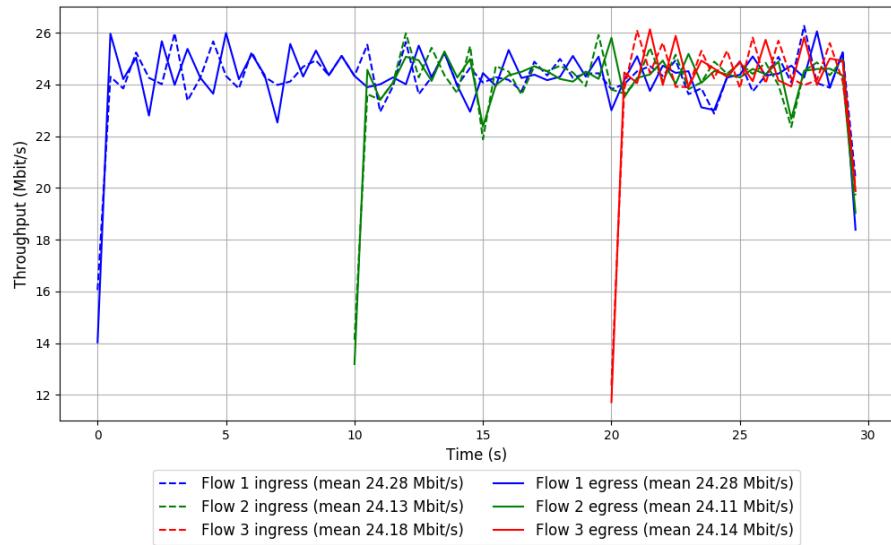


Run 4: Statistics of Sprout

```
Start at: 2018-04-17 14:22:06
End at: 2018-04-17 14:22:36
Local clock offset: -5.423 ms
Remote clock offset: -2.989 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 16.850 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 15.956 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 15.692 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 18.659 ms
Loss rate: 0.04%
```

Run 4: Report of Sprout — Data Link

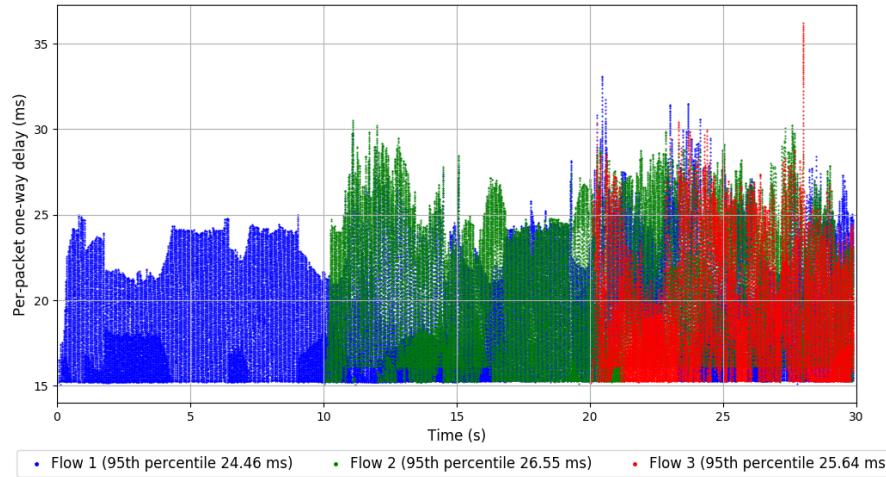
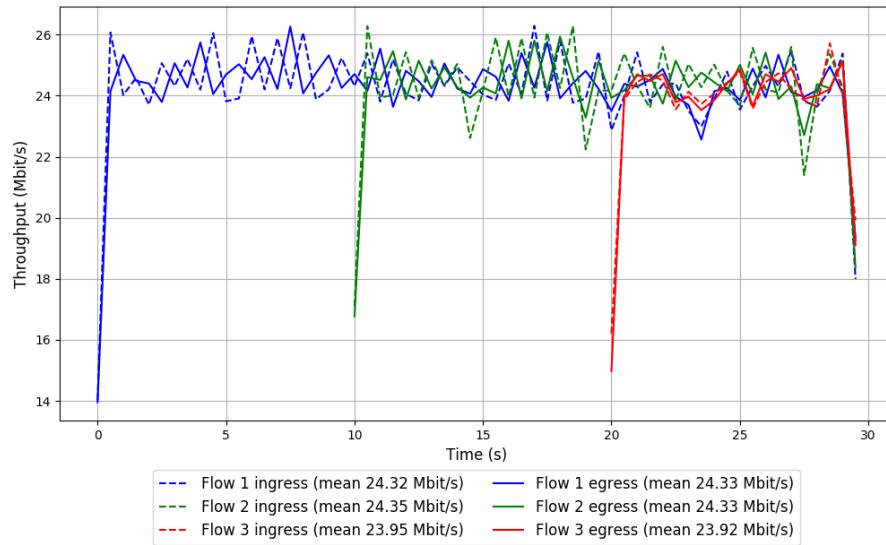


Run 5: Statistics of Sprout

```
Start at: 2018-04-17 14:42:55
End at: 2018-04-17 14:43:25
Local clock offset: -8.609 ms
Remote clock offset: -11.645 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.38 Mbit/s
95th percentile per-packet one-way delay: 25.693 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 24.464 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 26.545 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 23.92 Mbit/s
95th percentile per-packet one-way delay: 25.644 ms
Loss rate: 0.26%
```

Run 5: Report of Sprout — Data Link

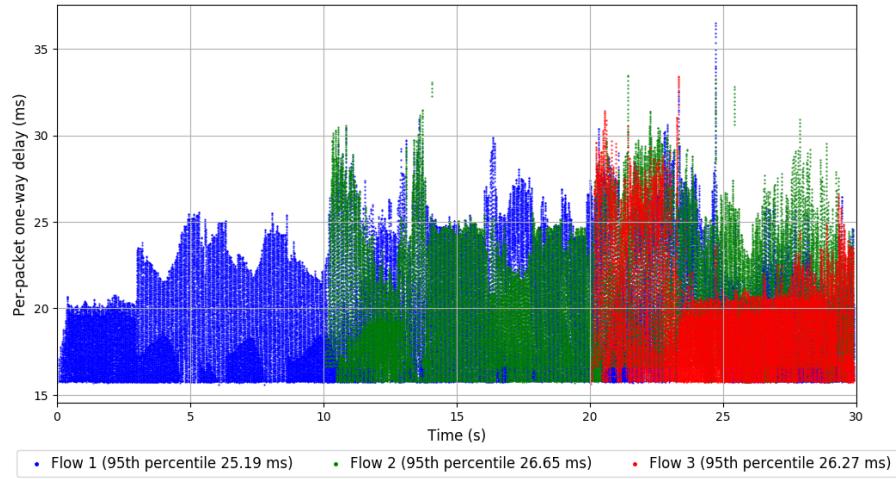
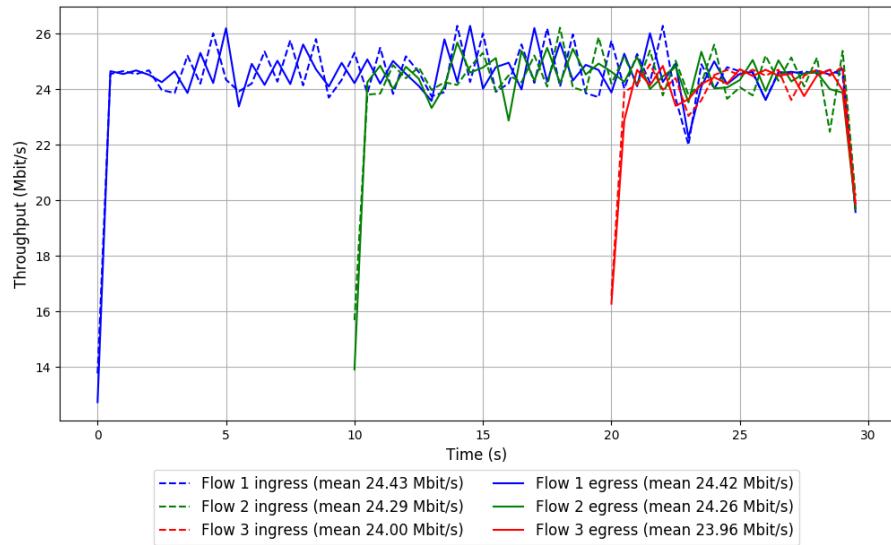


Run 6: Statistics of Sprout

```
Start at: 2018-04-17 15:05:33
End at: 2018-04-17 15:06:04
Local clock offset: -10.934 ms
Remote clock offset: -6.577 ms

# Below is generated by plot.py at 2018-04-17 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.47 Mbit/s
95th percentile per-packet one-way delay: 25.898 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 25.194 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 26.654 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 26.271 ms
Loss rate: 0.37%
```

Run 6: Report of Sprout — Data Link

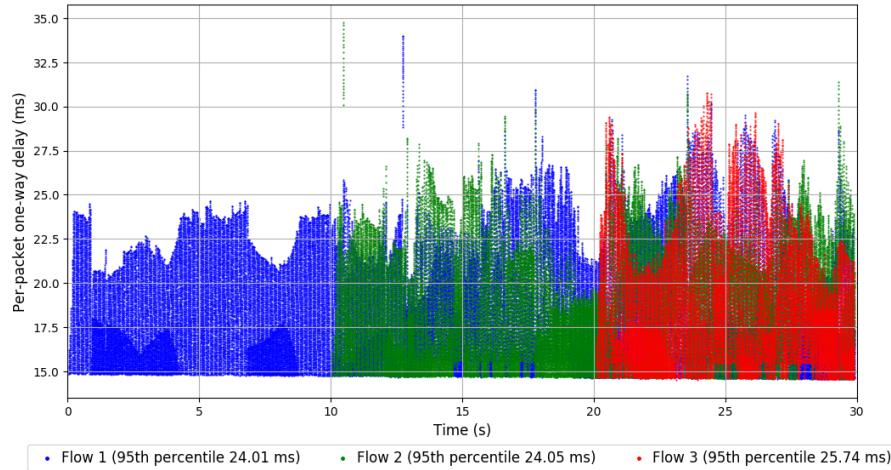
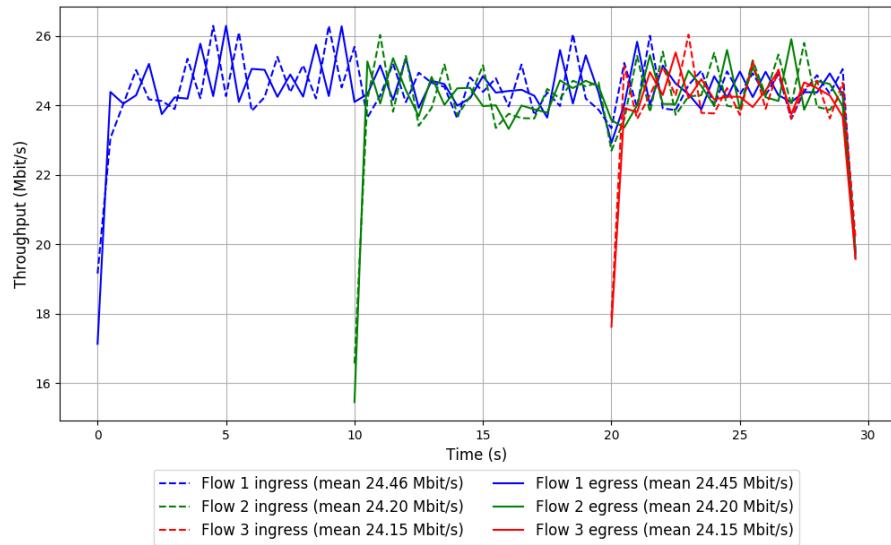


Run 7: Statistics of Sprout

```
Start at: 2018-04-17 15:27:12
End at: 2018-04-17 15:27:42
Local clock offset: -10.952 ms
Remote clock offset: -7.526 ms

# Below is generated by plot.py at 2018-04-17 20:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.49 Mbit/s
95th percentile per-packet one-way delay: 24.291 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 24.006 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 24.20 Mbit/s
95th percentile per-packet one-way delay: 24.050 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 24.15 Mbit/s
95th percentile per-packet one-way delay: 25.741 ms
Loss rate: 0.42%
```

Run 7: Report of Sprout — Data Link

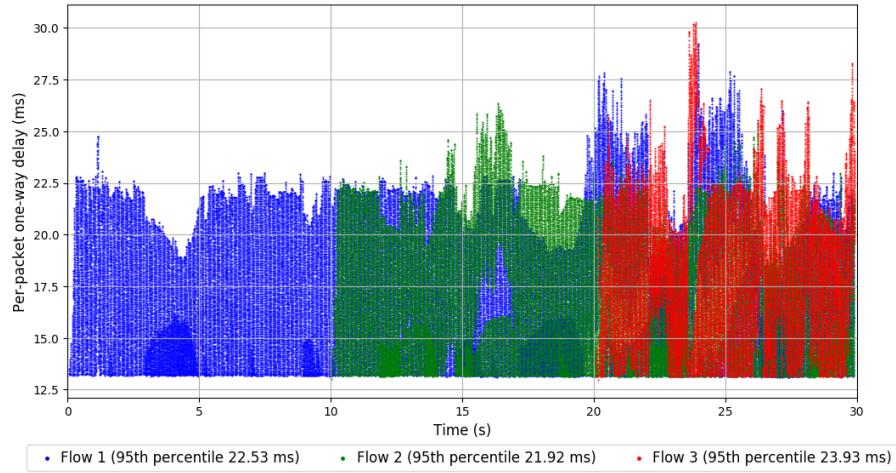
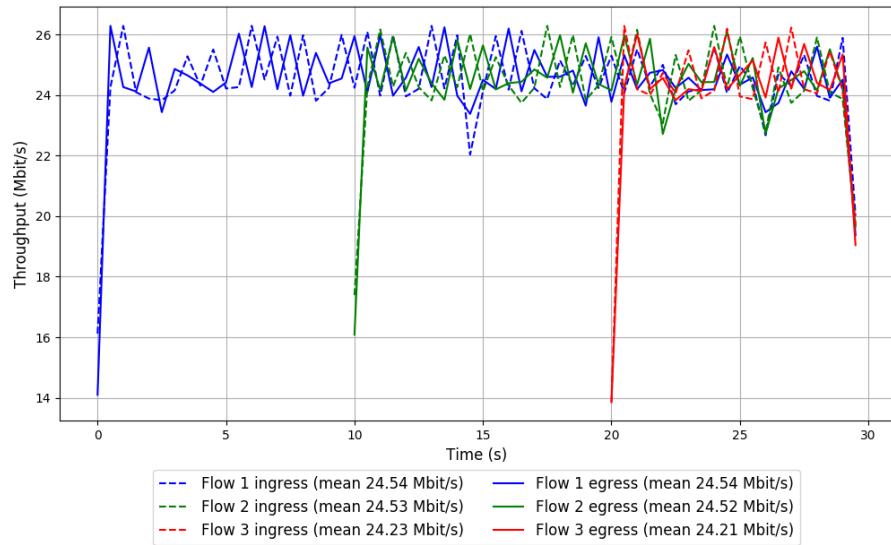


Run 8: Statistics of Sprout

```
Start at: 2018-04-17 15:48:53
End at: 2018-04-17 15:49:23
Local clock offset: -14.408 ms
Remote clock offset: -14.96 ms

# Below is generated by plot.py at 2018-04-17 20:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.80 Mbit/s
95th percentile per-packet one-way delay: 22.500 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.54 Mbit/s
95th percentile per-packet one-way delay: 22.533 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 21.919 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.21 Mbit/s
95th percentile per-packet one-way delay: 23.929 ms
Loss rate: 0.19%
```

Run 8: Report of Sprout — Data Link

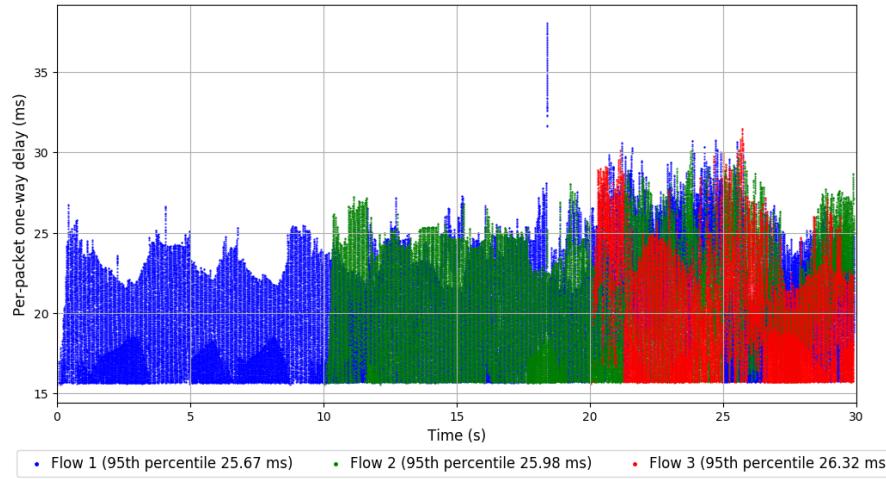
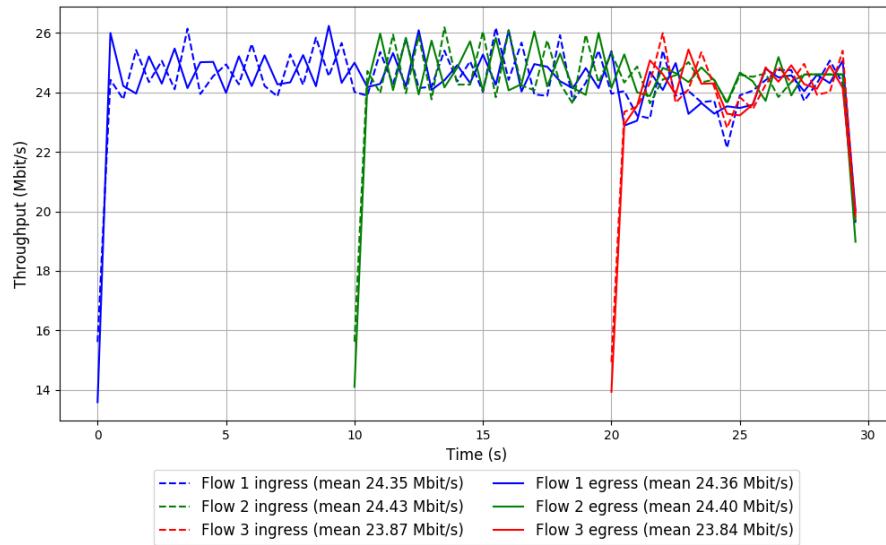


Run 9: Statistics of Sprout

```
Start at: 2018-04-17 16:11:02
End at: 2018-04-17 16:11:32
Local clock offset: -12.344 ms
Remote clock offset: -10.312 ms

# Below is generated by plot.py at 2018-04-17 20:10:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.44 Mbit/s
95th percentile per-packet one-way delay: 25.903 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 25.672 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 25.978 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 23.84 Mbit/s
95th percentile per-packet one-way delay: 26.321 ms
Loss rate: 0.29%
```

Run 9: Report of Sprout — Data Link

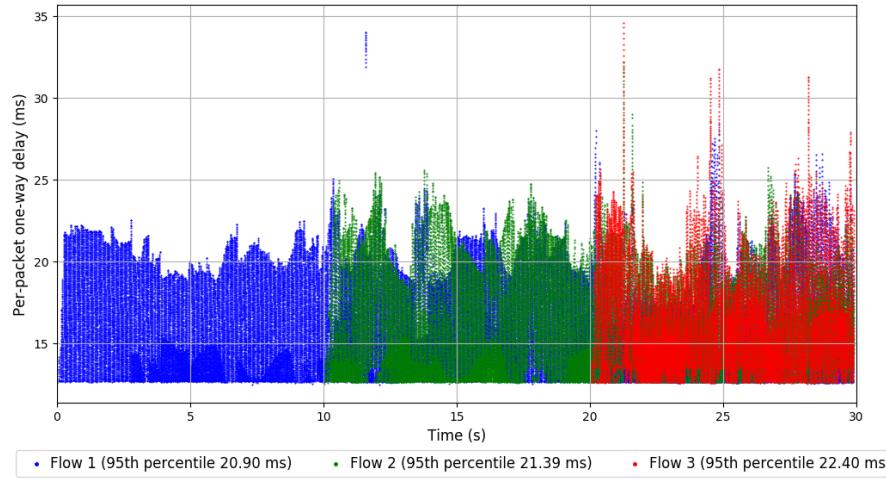
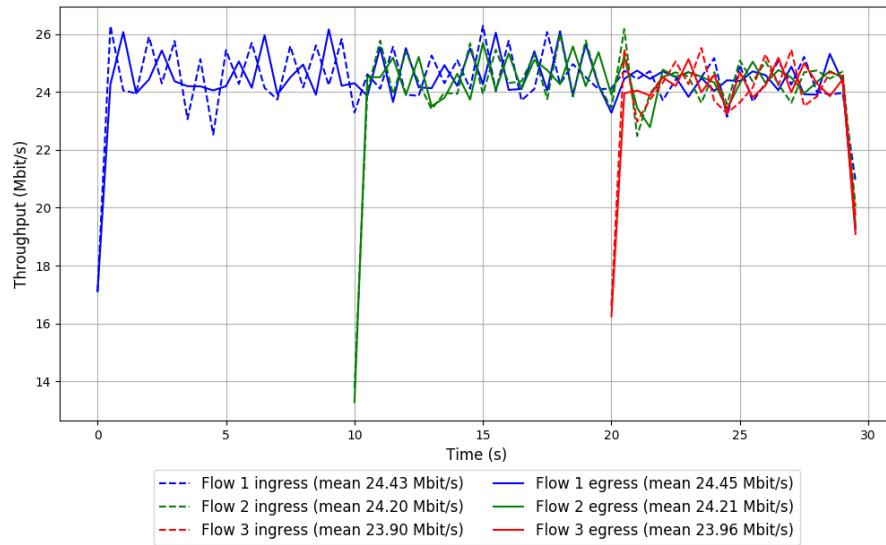


Run 10: Statistics of Sprout

```
Start at: 2018-04-17 16:32:49
End at: 2018-04-17 16:33:19
Local clock offset: -10.014 ms
Remote clock offset: -10.383 ms

# Below is generated by plot.py at 2018-04-17 20:10:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.45 Mbit/s
95th percentile per-packet one-way delay: 21.291 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 20.901 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 24.21 Mbit/s
95th percentile per-packet one-way delay: 21.393 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 23.96 Mbit/s
95th percentile per-packet one-way delay: 22.399 ms
Loss rate: 0.33%
```

Run 10: Report of Sprout — Data Link

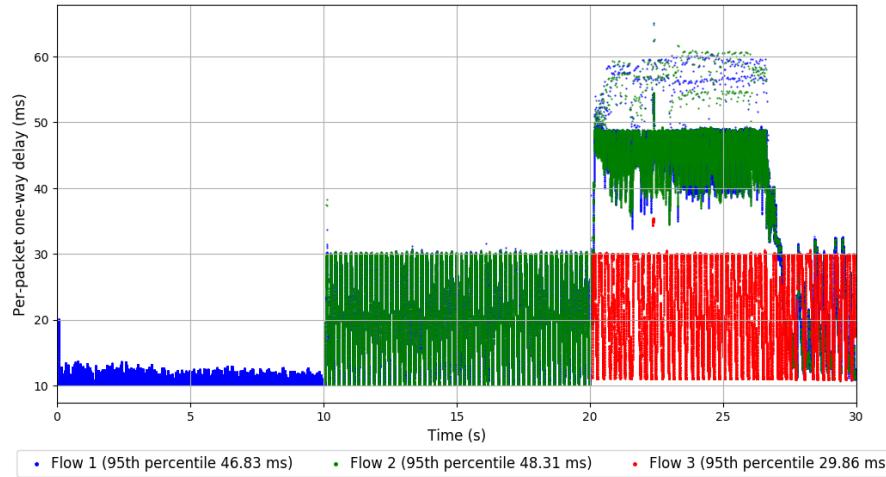
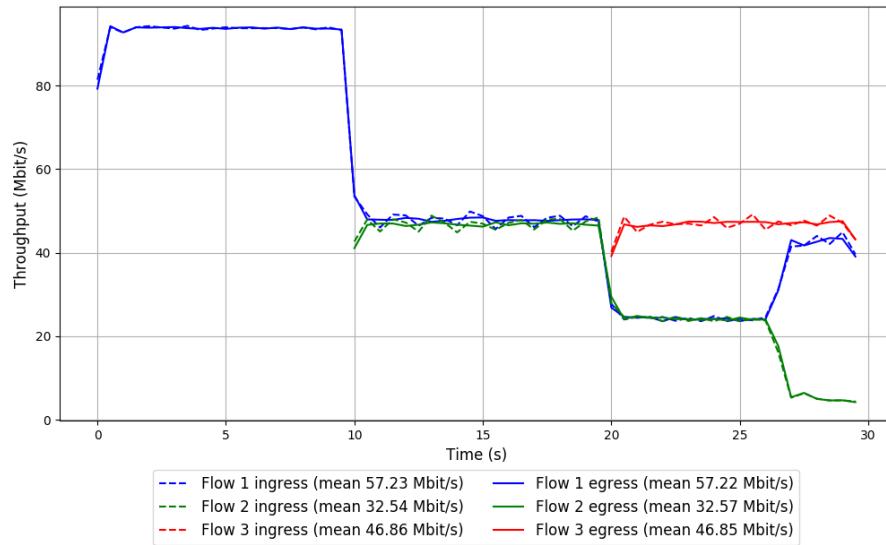


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-04-17 13:06:20
End at: 2018-04-17 13:06:50
Local clock offset: -4.07 ms
Remote clock offset: 1.362 ms

# Below is generated by plot.py at 2018-04-17 20:12:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 47.096 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 57.22 Mbit/s
95th percentile per-packet one-way delay: 46.830 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 48.311 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 46.85 Mbit/s
95th percentile per-packet one-way delay: 29.861 ms
Loss rate: 0.26%
```

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

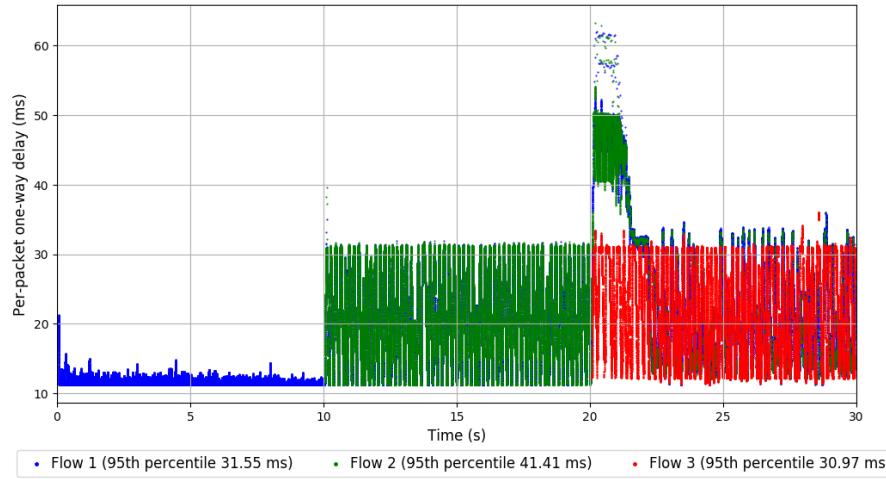
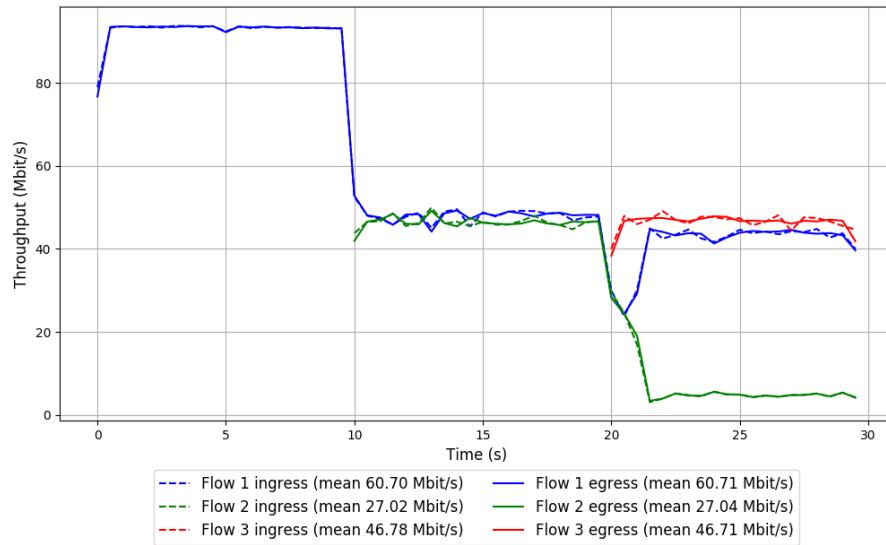


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-04-17 13:26:41
End at: 2018-04-17 13:27:11
Local clock offset: -3.12 ms
Remote clock offset: -2.145 ms

# Below is generated by plot.py at 2018-04-17 20:12:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 31.181 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 31.548 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 41.412 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 46.71 Mbit/s
95th percentile per-packet one-way delay: 30.968 ms
Loss rate: 0.44%
```

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

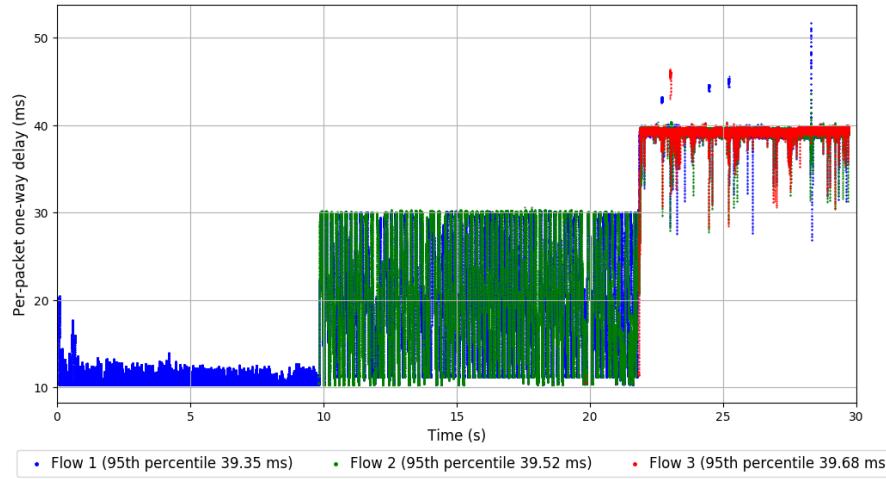
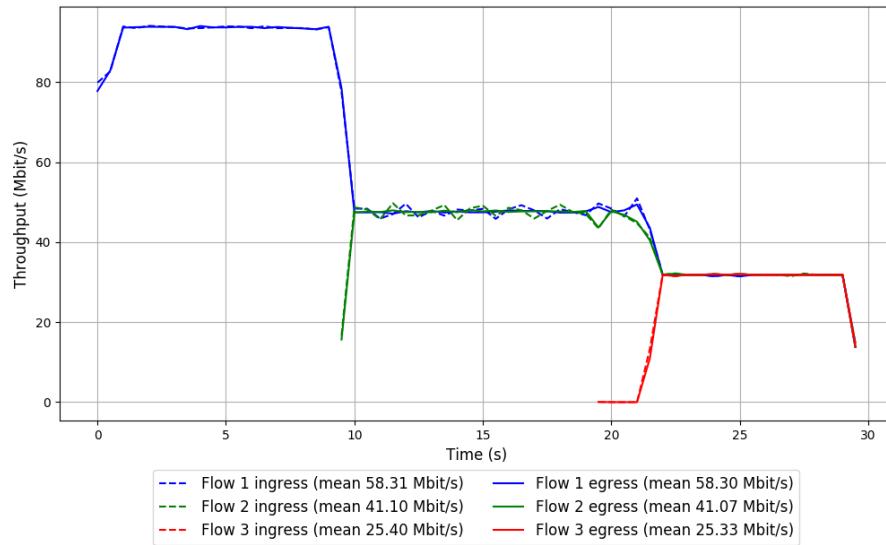


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-04-17 13:47:02
End at: 2018-04-17 13:47:32
Local clock offset: -4.612 ms
Remote clock offset: -1.301 ms

# Below is generated by plot.py at 2018-04-17 20:12:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 39.507 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 39.354 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 41.07 Mbit/s
95th percentile per-packet one-way delay: 39.524 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 25.33 Mbit/s
95th percentile per-packet one-way delay: 39.677 ms
Loss rate: 0.66%
```

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

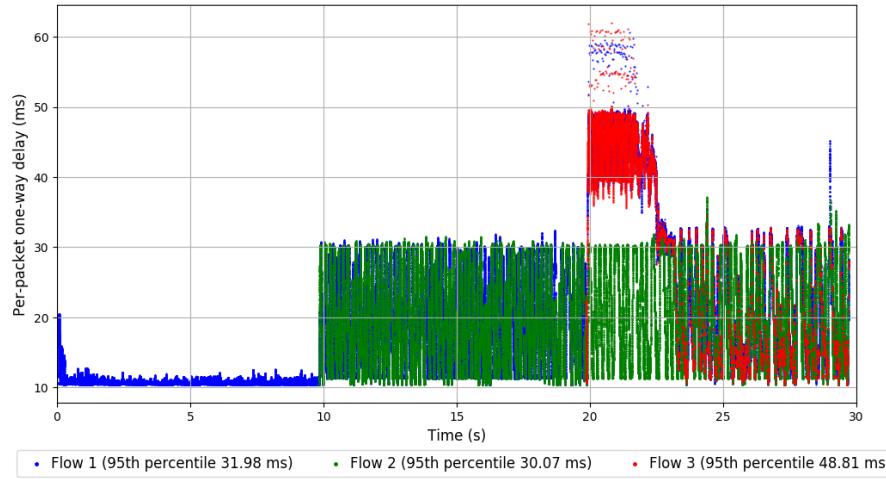
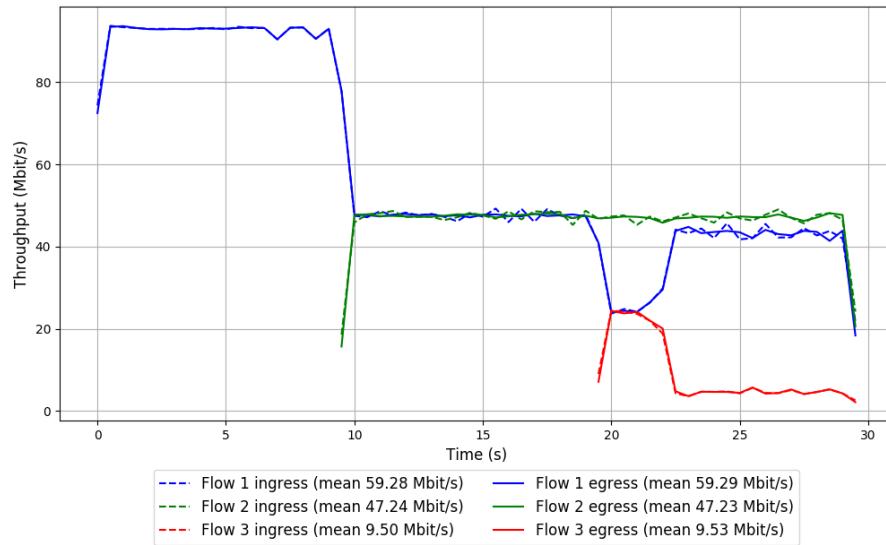


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-04-17 14:07:36
End at: 2018-04-17 14:08:06
Local clock offset: -3.472 ms
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2018-04-17 20:12:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 32.340 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.29 Mbit/s
95th percentile per-packet one-way delay: 31.983 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 47.23 Mbit/s
95th percentile per-packet one-way delay: 30.068 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 48.810 ms
Loss rate: 0.32%
```

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

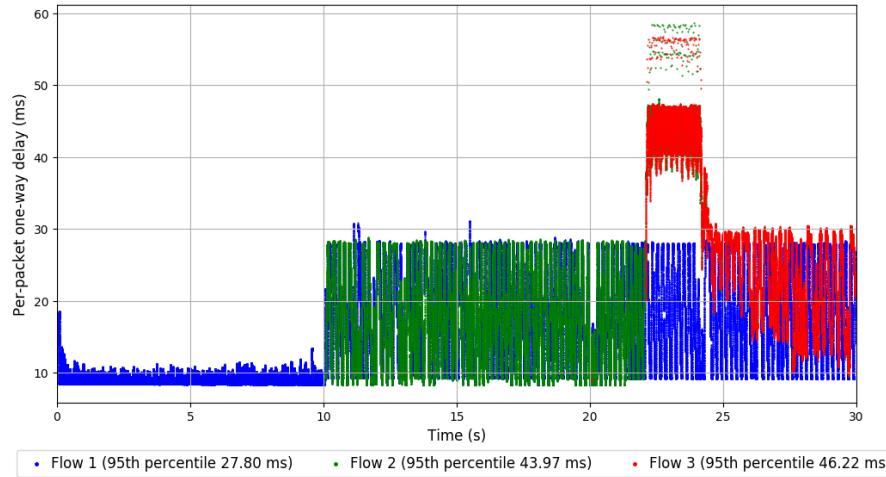
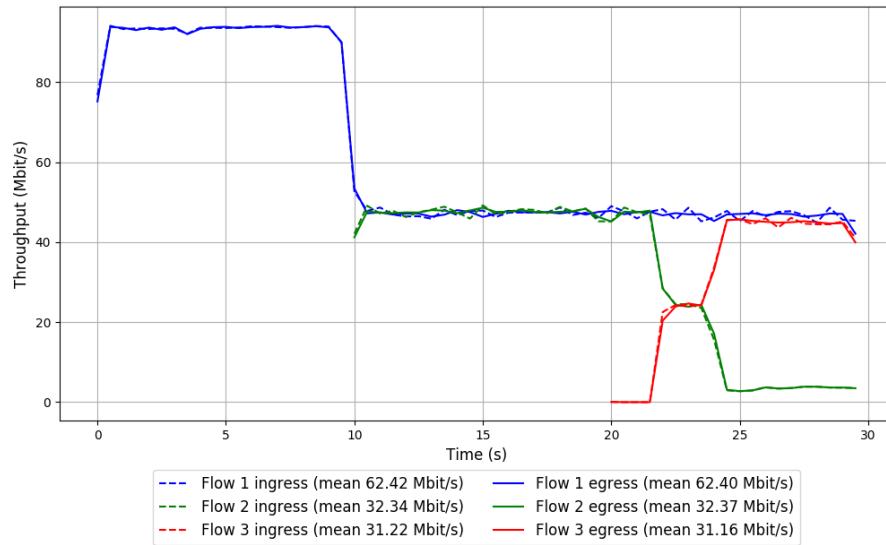


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-04-17 14:28:22
End at: 2018-04-17 14:28:52
Local clock offset: -4.677 ms
Remote clock offset: -5.276 ms

# Below is generated by plot.py at 2018-04-17 20:12:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 29.285 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 62.40 Mbit/s
95th percentile per-packet one-way delay: 27.802 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 32.37 Mbit/s
95th percentile per-packet one-way delay: 43.969 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 31.16 Mbit/s
95th percentile per-packet one-way delay: 46.224 ms
Loss rate: 0.45%
```

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

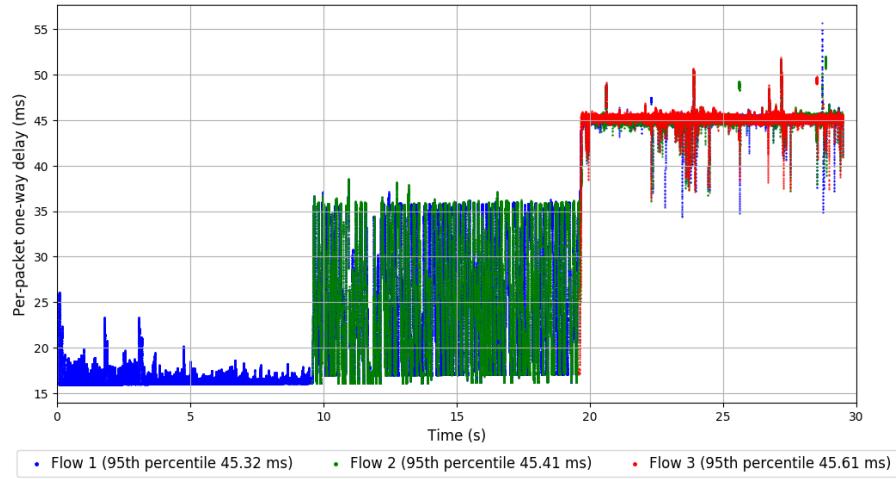
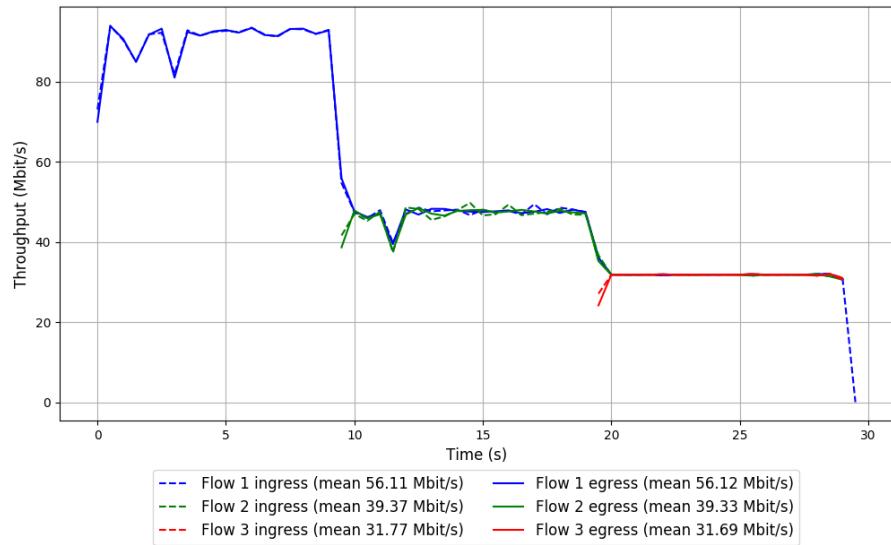


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-04-17 14:49:31
End at: 2018-04-17 14:50:01
Local clock offset: -9.583 ms
Remote clock offset: -12.447 ms

# Below is generated by plot.py at 2018-04-17 20:12:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 45.438 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 56.12 Mbit/s
95th percentile per-packet one-way delay: 45.317 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.33 Mbit/s
95th percentile per-packet one-way delay: 45.413 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 45.608 ms
Loss rate: 0.53%
```

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

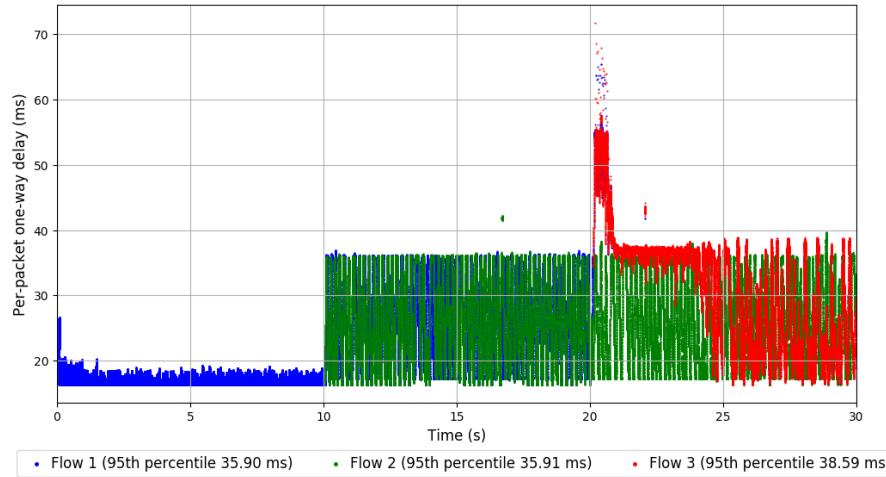
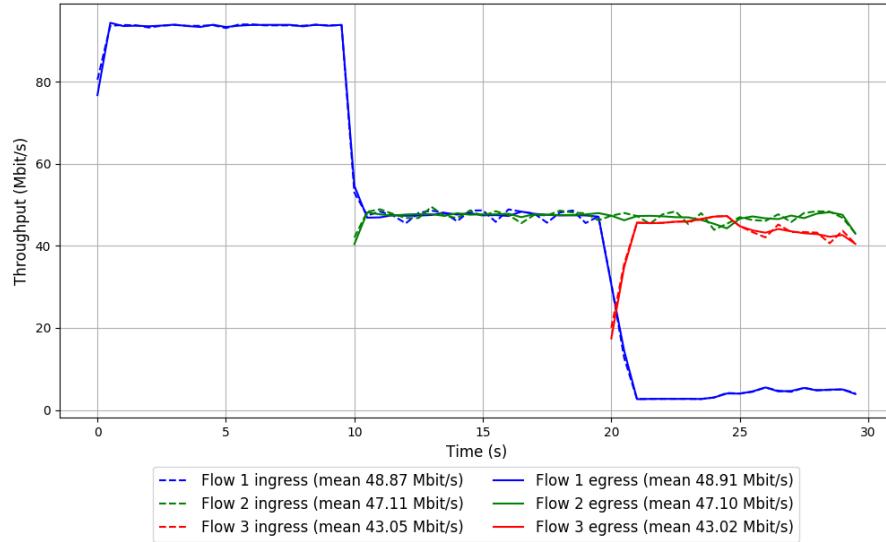


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-04-17 15:11:50
End at: 2018-04-17 15:12:20
Local clock offset: -10.206 ms
Remote clock offset: -6.154 ms

# Below is generated by plot.py at 2018-04-17 20:12:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 36.864 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 48.91 Mbit/s
95th percentile per-packet one-way delay: 35.895 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.10 Mbit/s
95th percentile per-packet one-way delay: 35.905 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 43.02 Mbit/s
95th percentile per-packet one-way delay: 38.587 ms
Loss rate: 0.33%
```

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

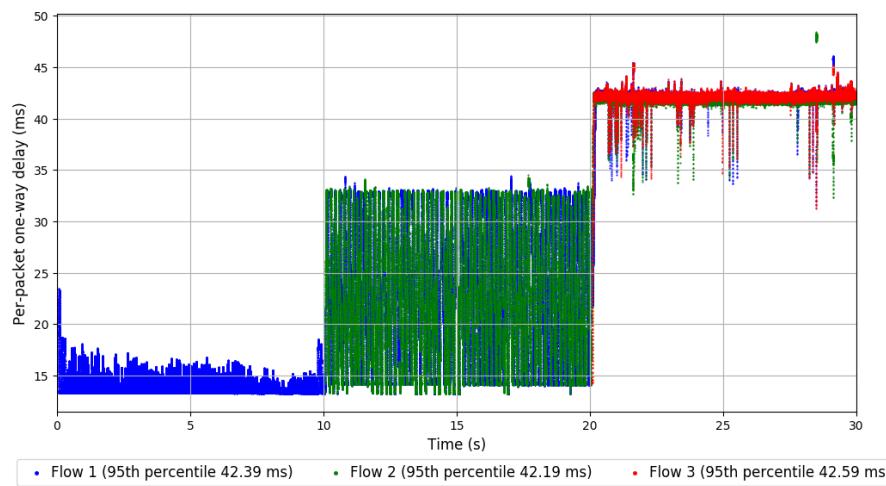
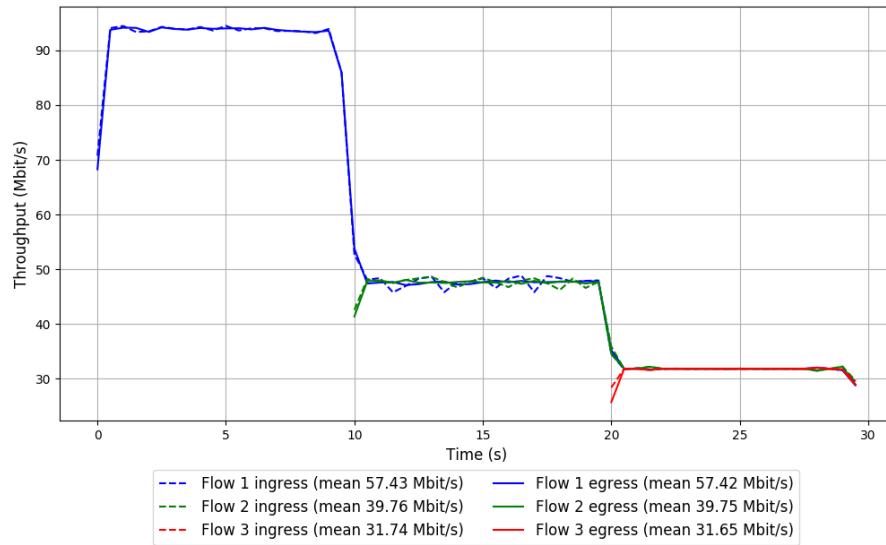


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-04-17 15:33:41
End at: 2018-04-17 15:34:11
Local clock offset: -13.087 ms
Remote clock offset: -11.018 ms

# Below is generated by plot.py at 2018-04-17 20:12:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.36 Mbit/s
95th percentile per-packet one-way delay: 42.433 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 42.389 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.75 Mbit/s
95th percentile per-packet one-way delay: 42.193 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 31.65 Mbit/s
95th percentile per-packet one-way delay: 42.589 ms
Loss rate: 0.53%
```

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

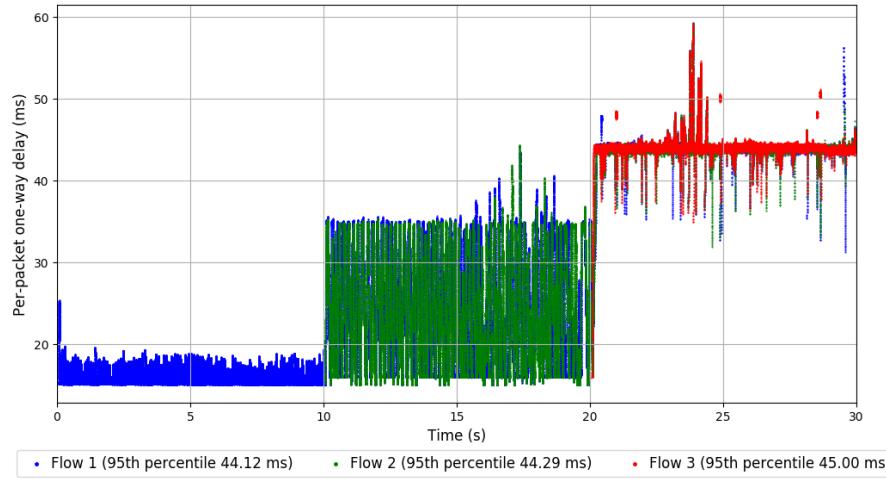
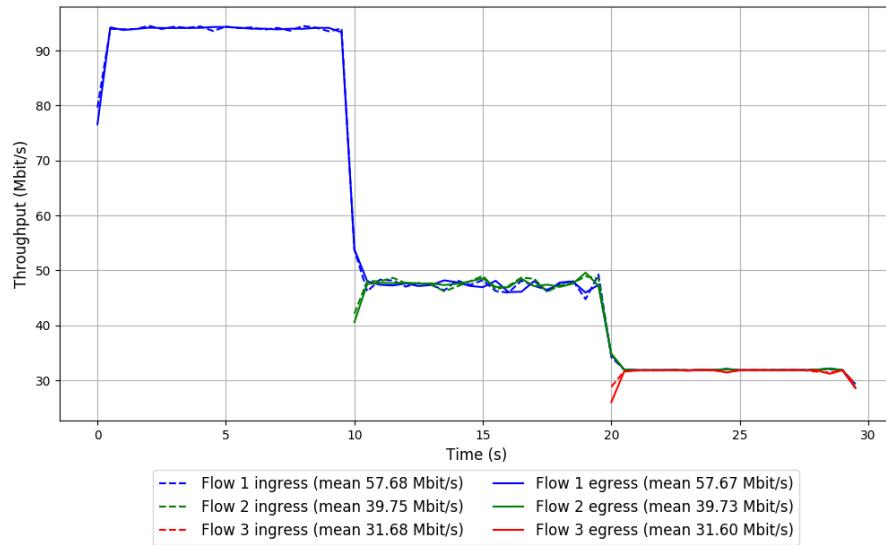


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-04-17 15:55:12
End at: 2018-04-17 15:55:42
Local clock offset: -11.939 ms
Remote clock offset: -15.133 ms

# Below is generated by plot.py at 2018-04-17 20:14:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 44.297 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 57.67 Mbit/s
95th percentile per-packet one-way delay: 44.122 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 44.289 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 45.003 ms
Loss rate: 0.54%
```

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

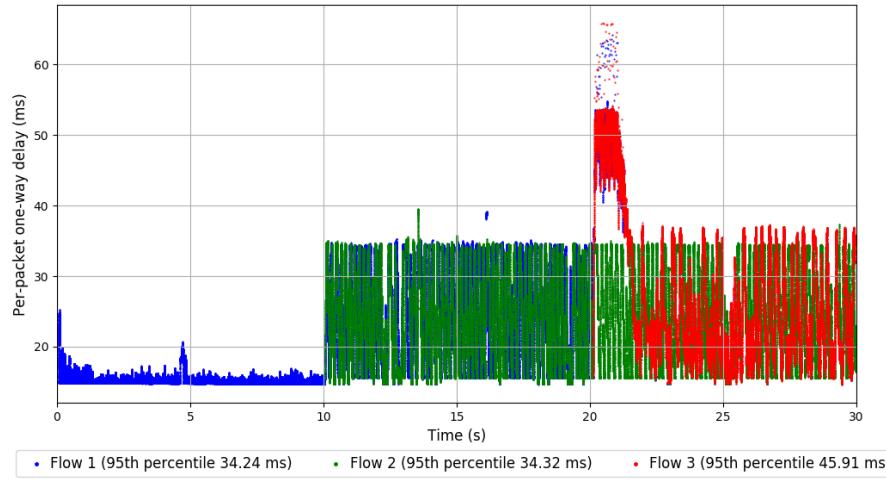
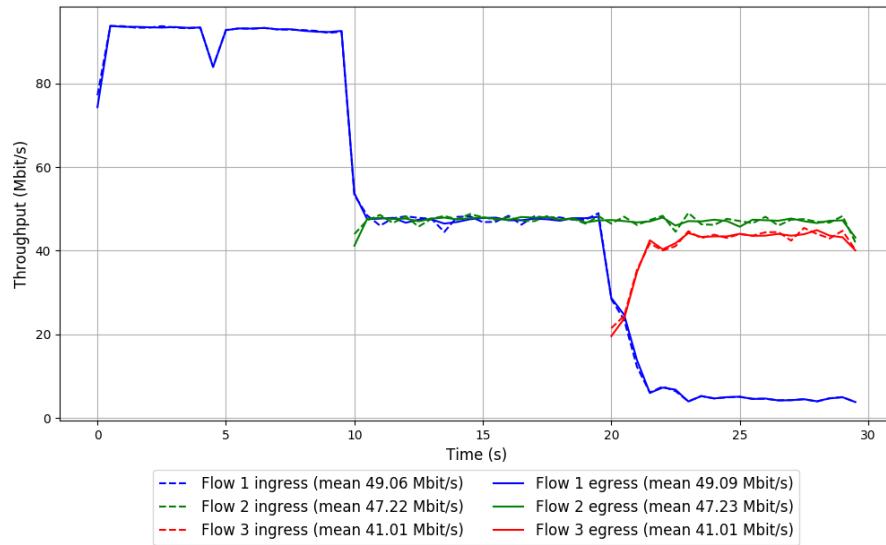


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-04-17 16:17:13
End at: 2018-04-17 16:17:44
Local clock offset: -10.454 ms
Remote clock offset: -9.683 ms

# Below is generated by plot.py at 2018-04-17 20:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 34.455 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 49.09 Mbit/s
95th percentile per-packet one-way delay: 34.243 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.23 Mbit/s
95th percentile per-packet one-way delay: 34.322 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 45.909 ms
Loss rate: 0.40%
```

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

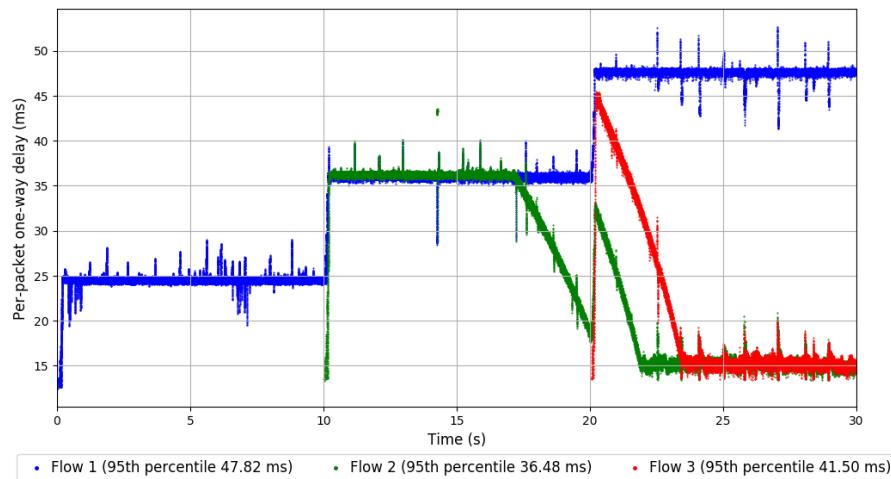
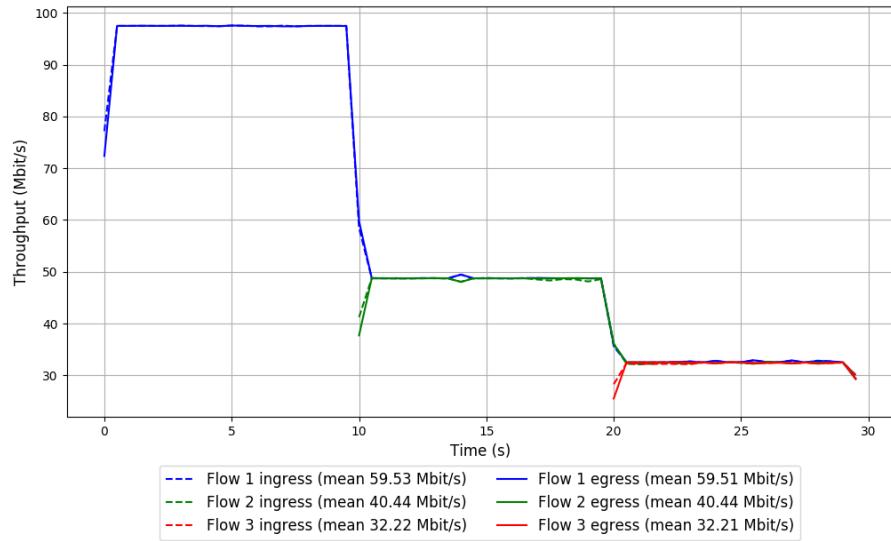


Run 1: Statistics of TCP Vegas

```
Start at: 2018-04-17 13:19:24
End at: 2018-04-17 13:19:54
Local clock offset: -2.528 ms
Remote clock offset: -3.215 ms

# Below is generated by plot.py at 2018-04-17 20:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 47.678 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 47.820 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 36.478 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 41.504 ms
Loss rate: 0.26%
```

Run 1: Report of TCP Vegas — Data Link

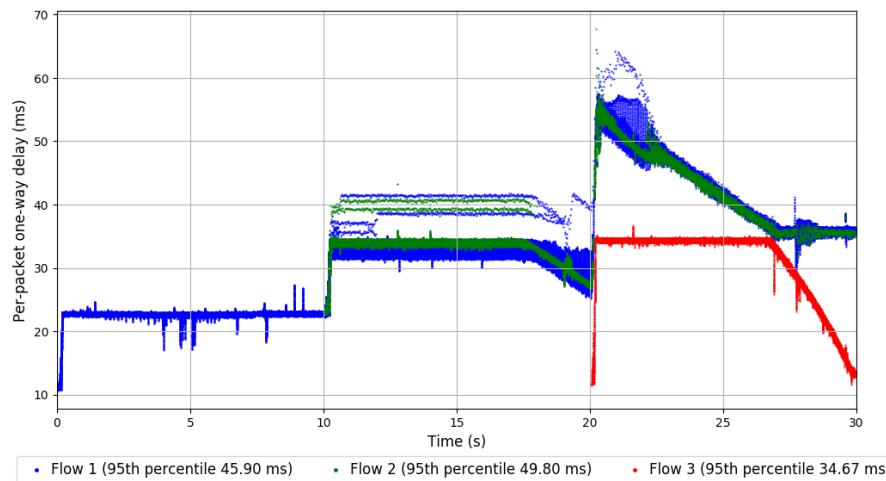
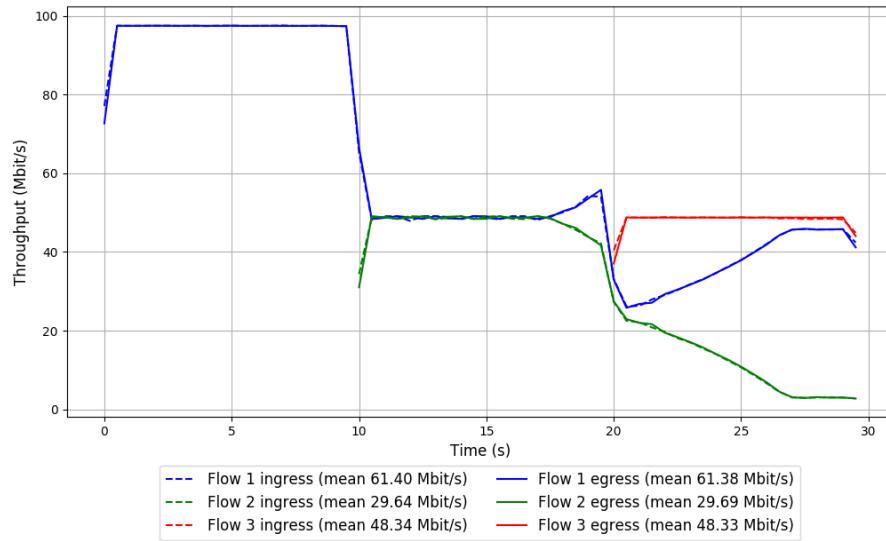


Run 2: Statistics of TCP Vegas

```
Start at: 2018-04-17 13:39:57
End at: 2018-04-17 13:40:27
Local clock offset: -4.496 ms
Remote clock offset: -2.82 ms

# Below is generated by plot.py at 2018-04-17 20:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 46.567 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 61.38 Mbit/s
95th percentile per-packet one-way delay: 45.895 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 29.69 Mbit/s
95th percentile per-packet one-way delay: 49.801 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 48.33 Mbit/s
95th percentile per-packet one-way delay: 34.673 ms
Loss rate: 0.25%
```

Run 2: Report of TCP Vegas — Data Link

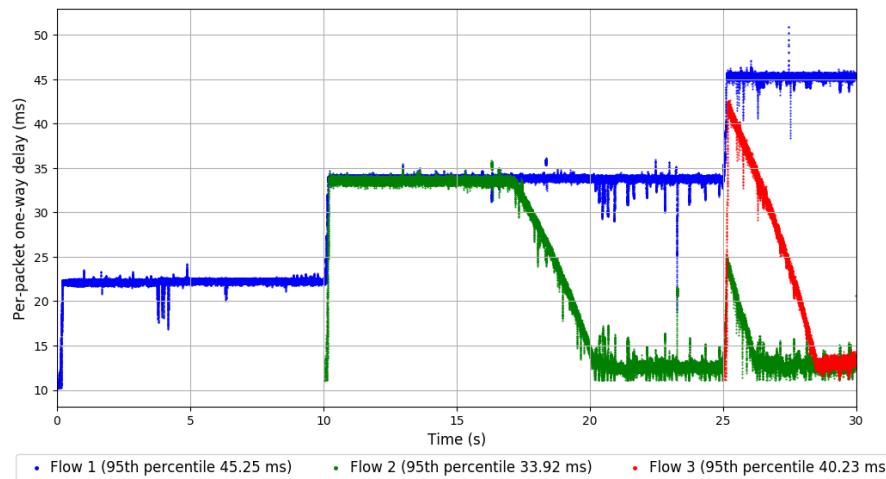
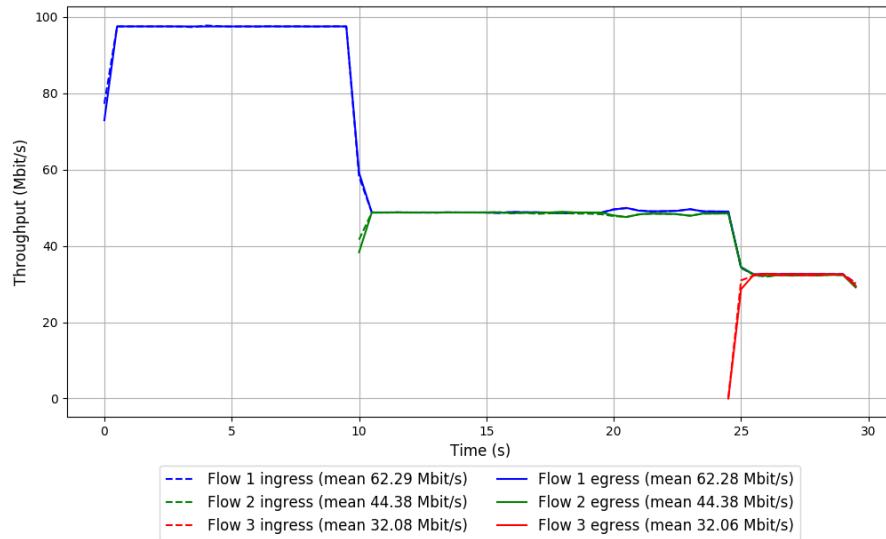


Run 3: Statistics of TCP Vegas

```
Start at: 2018-04-17 14:00:17
End at: 2018-04-17 14:00:47
Local clock offset: -3.72 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-04-17 20:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 44.732 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 62.28 Mbit/s
95th percentile per-packet one-way delay: 45.246 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 44.38 Mbit/s
95th percentile per-packet one-way delay: 33.918 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 32.06 Mbit/s
95th percentile per-packet one-way delay: 40.235 ms
Loss rate: 0.53%
```

Run 3: Report of TCP Vegas — Data Link

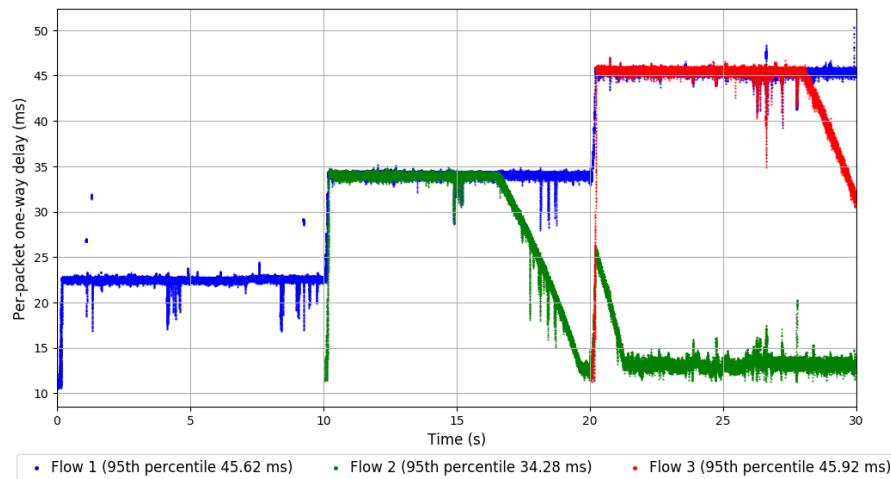
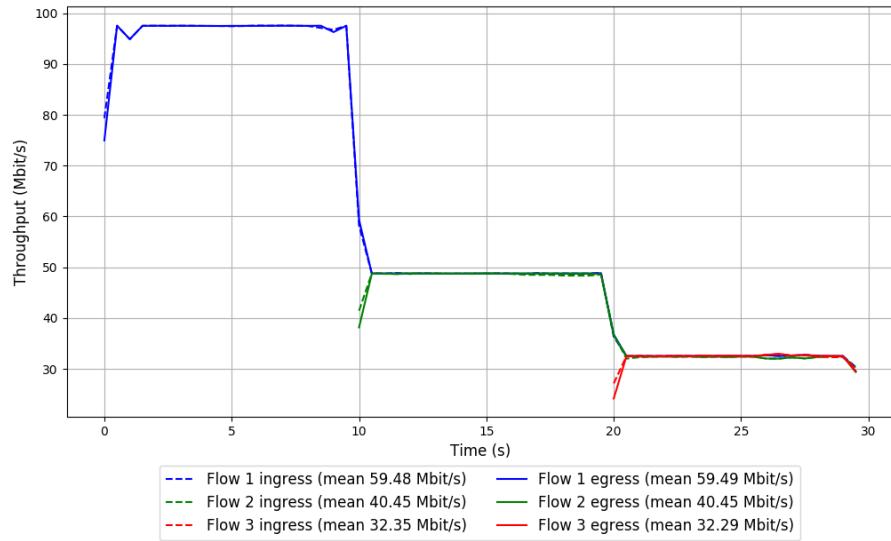


Run 4: Statistics of TCP Vegas

```
Start at: 2018-04-17 14:20:54
End at: 2018-04-17 14:21:24
Local clock offset: -2.426 ms
Remote clock offset: -2.926 ms

# Below is generated by plot.py at 2018-04-17 20:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 45.706 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 59.49 Mbit/s
95th percentile per-packet one-way delay: 45.621 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.45 Mbit/s
95th percentile per-packet one-way delay: 34.279 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 45.923 ms
Loss rate: 0.44%
```

Run 4: Report of TCP Vegas — Data Link

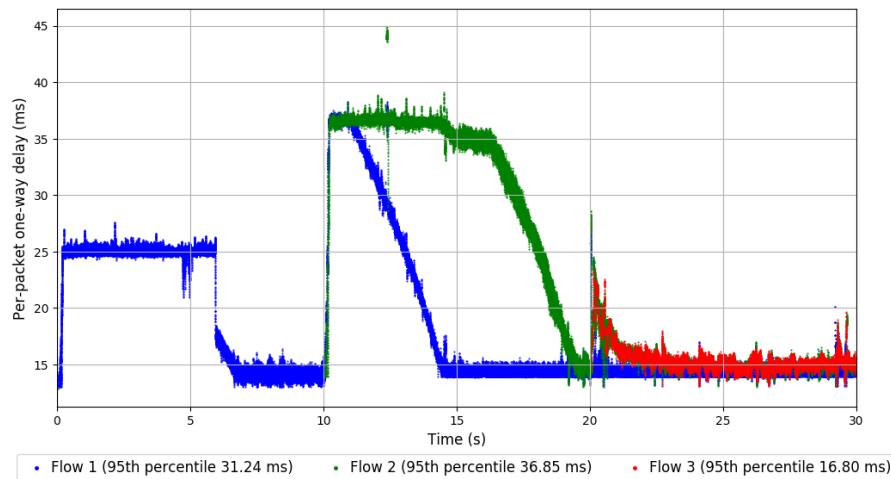
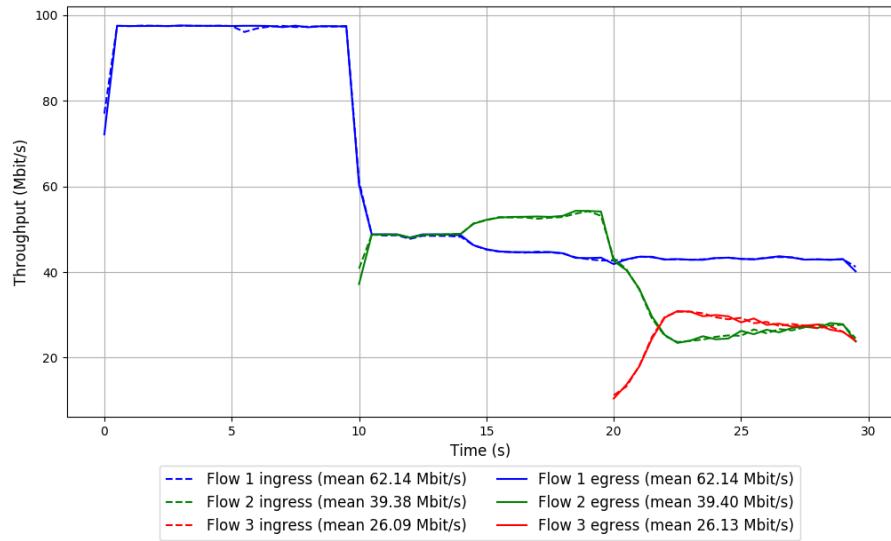


Run 5: Statistics of TCP Vegas

```
Start at: 2018-04-17 14:41:39
End at: 2018-04-17 14:42:10
Local clock offset: -10.401 ms
Remote clock offset: -11.424 ms

# Below is generated by plot.py at 2018-04-17 20:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: 36.585 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 62.14 Mbit/s
95th percentile per-packet one-way delay: 31.241 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 39.40 Mbit/s
95th percentile per-packet one-way delay: 36.847 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 26.13 Mbit/s
95th percentile per-packet one-way delay: 16.798 ms
Loss rate: 0.23%
```

Run 5: Report of TCP Vegas — Data Link

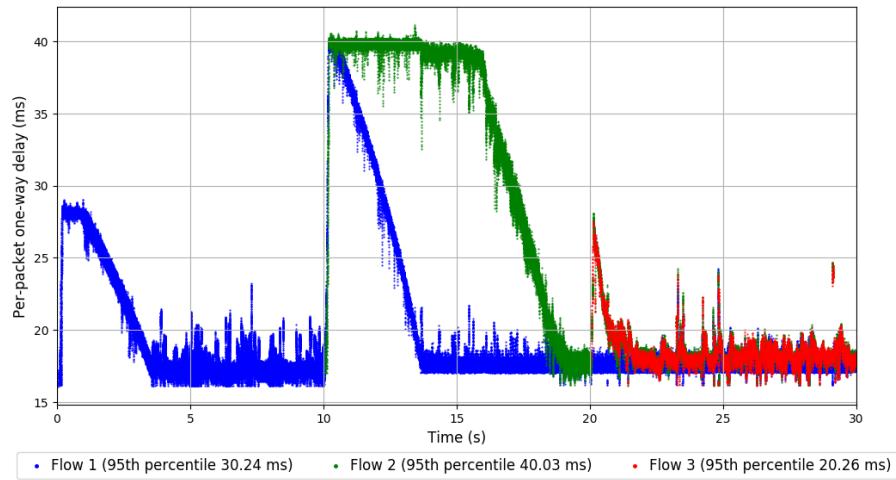
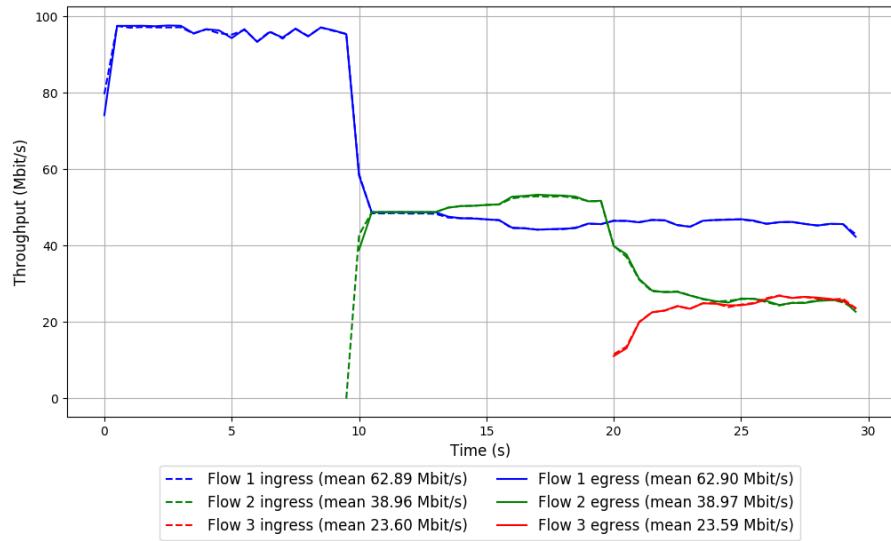


Run 6: Statistics of TCP Vegas

```
Start at: 2018-04-17 15:04:20
End at: 2018-04-17 15:04:50
Local clock offset: -10.857 ms
Remote clock offset: -7.025 ms

# Below is generated by plot.py at 2018-04-17 20:14:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 39.686 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 62.90 Mbit/s
95th percentile per-packet one-way delay: 30.244 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 40.027 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 20.260 ms
Loss rate: 0.27%
```

Run 6: Report of TCP Vegas — Data Link

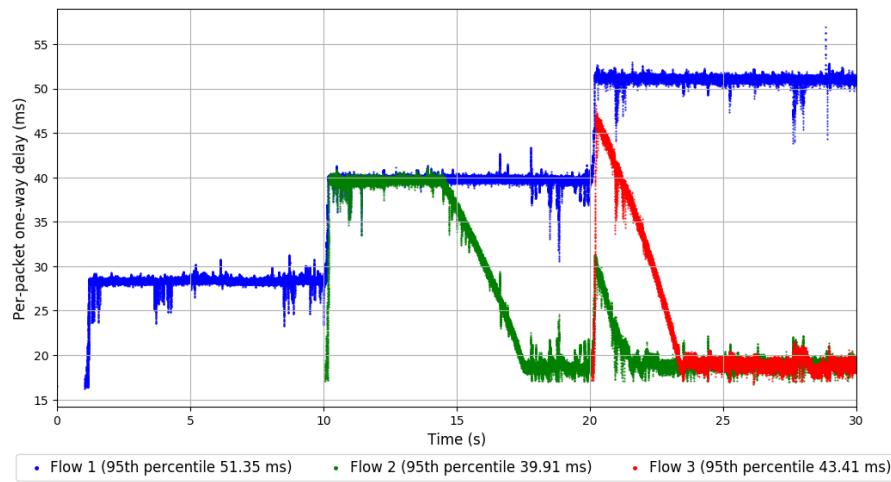
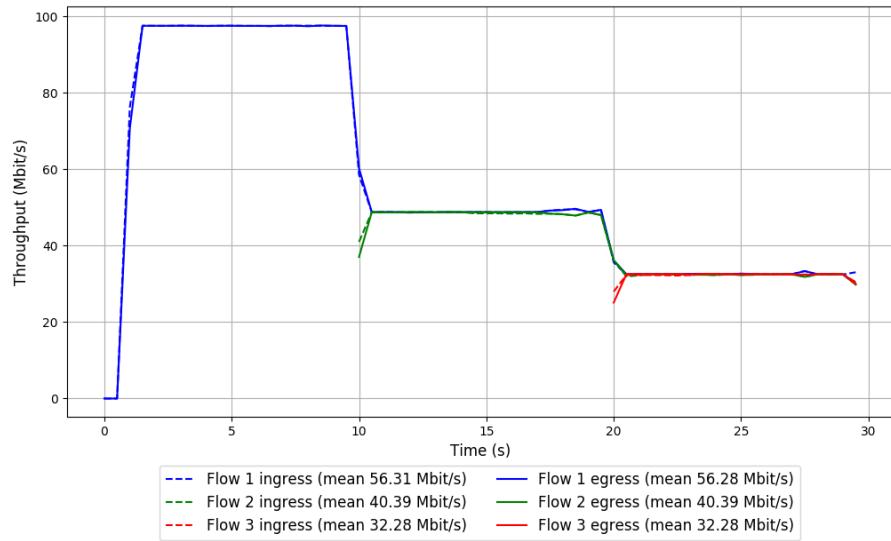


Run 7: Statistics of TCP Vegas

```
Start at: 2018-04-17 15:25:41
End at: 2018-04-17 15:26:11
Local clock offset: -10.29 ms
Remote clock offset: -7.475 ms

# Below is generated by plot.py at 2018-04-17 20:15:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 51.238 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 56.28 Mbit/s
95th percentile per-packet one-way delay: 51.351 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.39 Mbit/s
95th percentile per-packet one-way delay: 39.912 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 32.28 Mbit/s
95th percentile per-packet one-way delay: 43.414 ms
Loss rate: 0.28%
```

Run 7: Report of TCP Vegas — Data Link

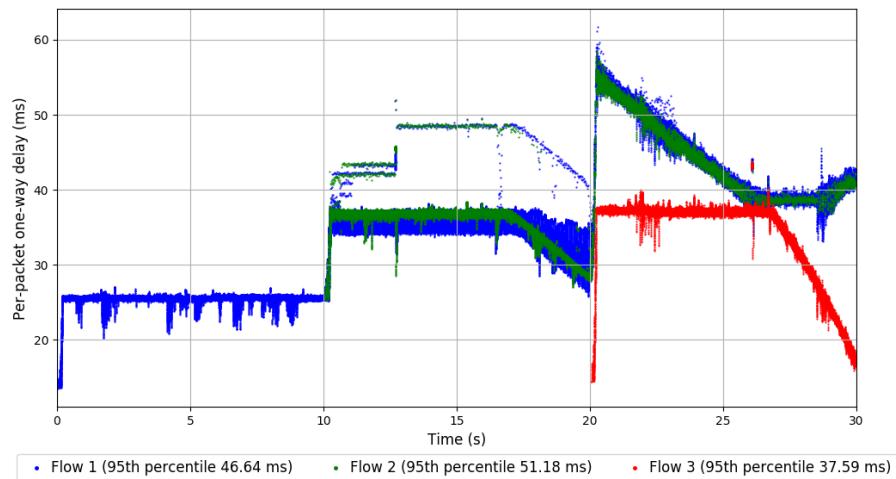
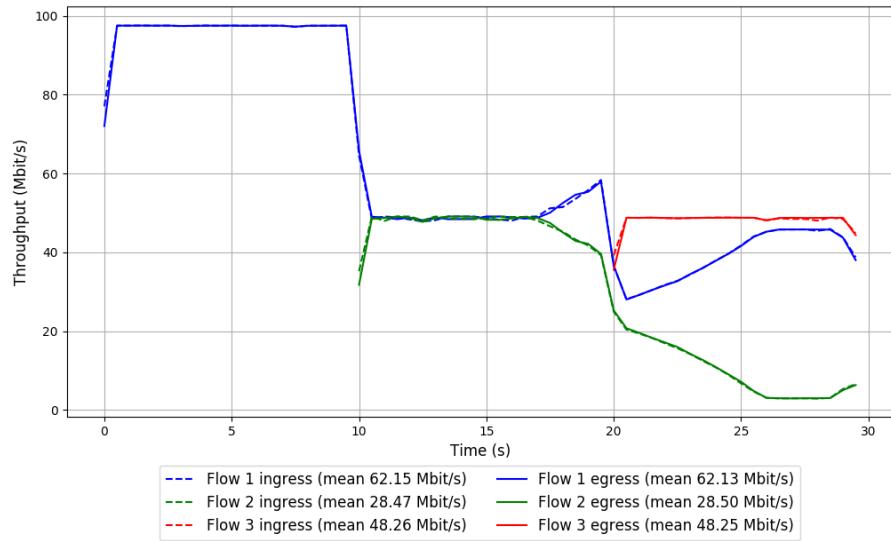


Run 8: Statistics of TCP Vegas

```
Start at: 2018-04-17 15:47:32
End at: 2018-04-17 15:48:02
Local clock offset: -13.665 ms
Remote clock offset: -14.553 ms

# Below is generated by plot.py at 2018-04-17 20:15:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 46.758 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 46.642 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 28.50 Mbit/s
95th percentile per-packet one-way delay: 51.180 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 48.25 Mbit/s
95th percentile per-packet one-way delay: 37.595 ms
Loss rate: 0.27%
```

Run 8: Report of TCP Vegas — Data Link

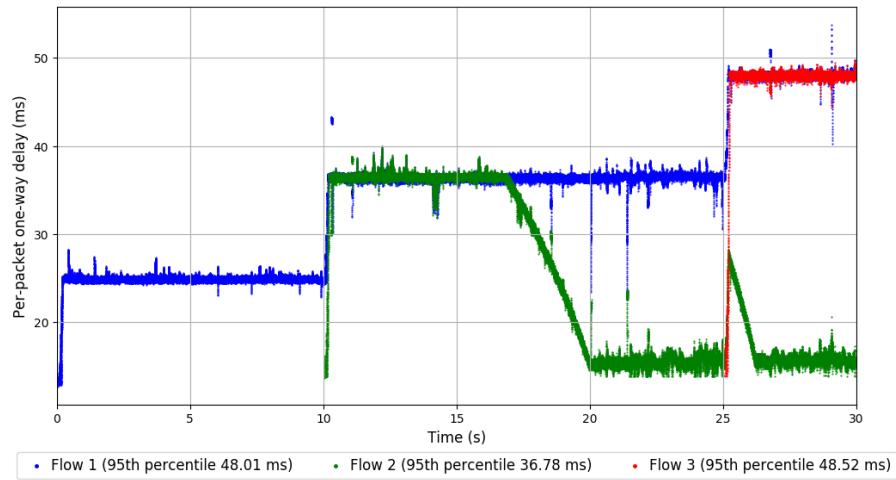
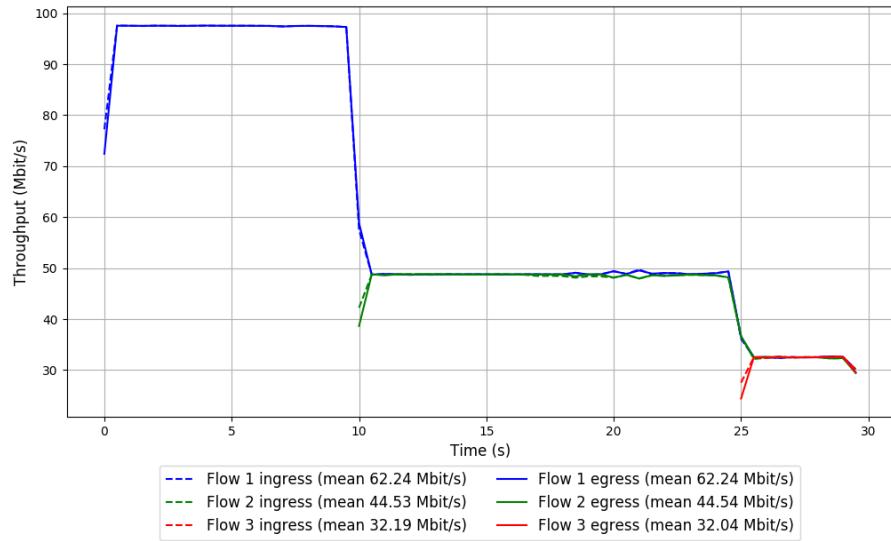


Run 9: Statistics of TCP Vegas

```
Start at: 2018-04-17 16:09:23
End at: 2018-04-17 16:09:53
Local clock offset: -15.146 ms
Remote clock offset: -10.669 ms

# Below is generated by plot.py at 2018-04-17 20:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 48.142 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 62.24 Mbit/s
95th percentile per-packet one-way delay: 48.009 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 44.54 Mbit/s
95th percentile per-packet one-way delay: 36.784 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 48.518 ms
Loss rate: 1.19%
```

Run 9: Report of TCP Vegas — Data Link

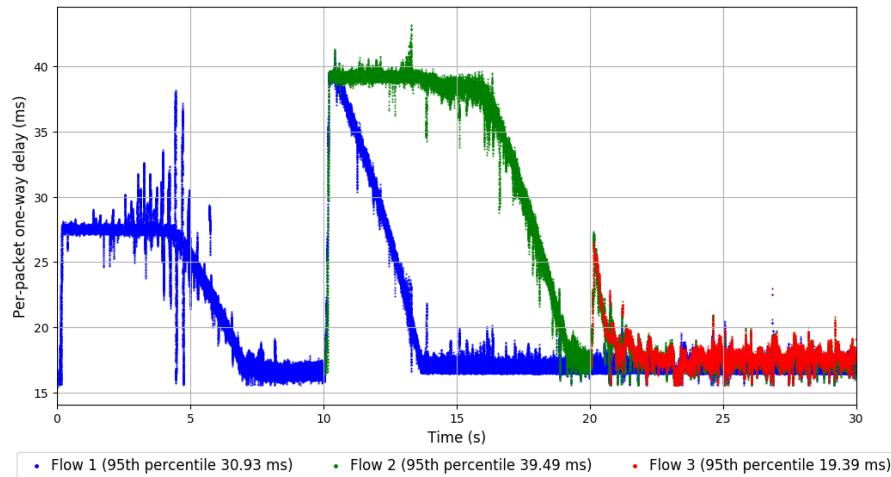
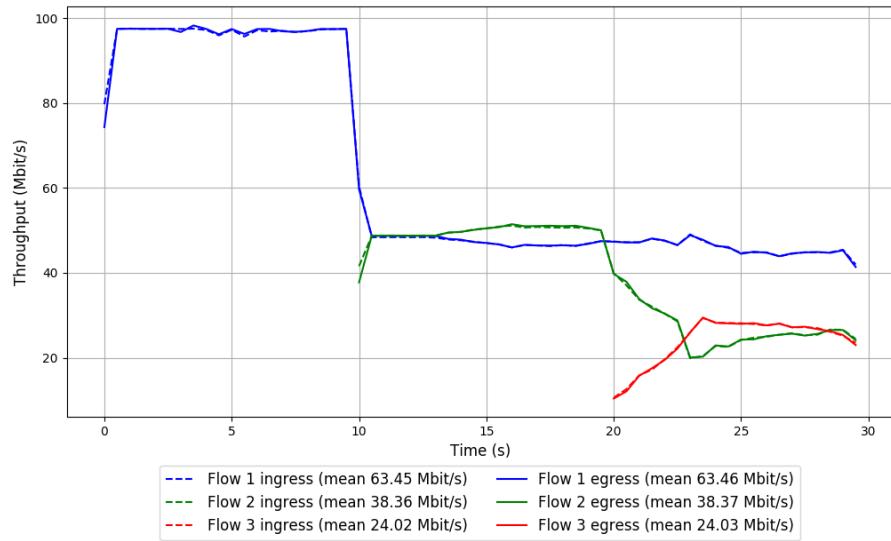


Run 10: Statistics of TCP Vegas

```
Start at: 2018-04-17 16:31:31
End at: 2018-04-17 16:32:01
Local clock offset: -7.109 ms
Remote clock offset: -10.371 ms

# Below is generated by plot.py at 2018-04-17 20:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 39.183 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 63.46 Mbit/s
95th percentile per-packet one-way delay: 30.933 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 38.37 Mbit/s
95th percentile per-packet one-way delay: 39.495 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 24.03 Mbit/s
95th percentile per-packet one-way delay: 19.389 ms
Loss rate: 0.27%
```

Run 10: Report of TCP Vegas — Data Link

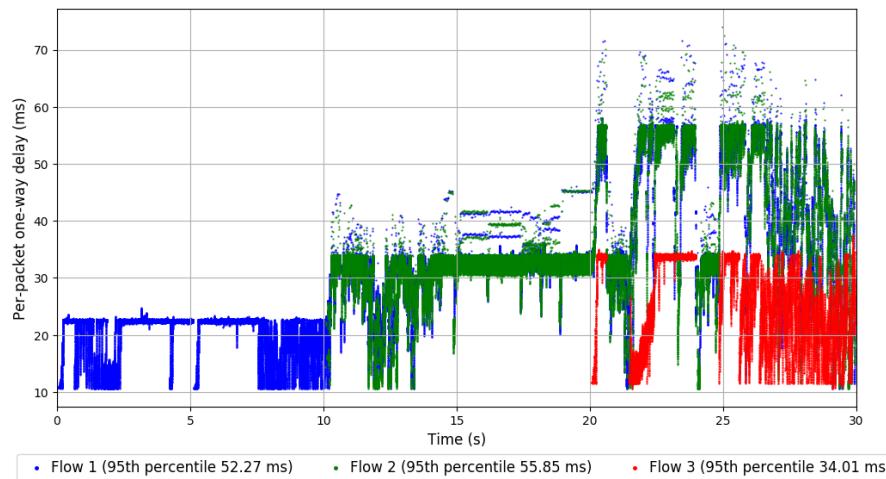
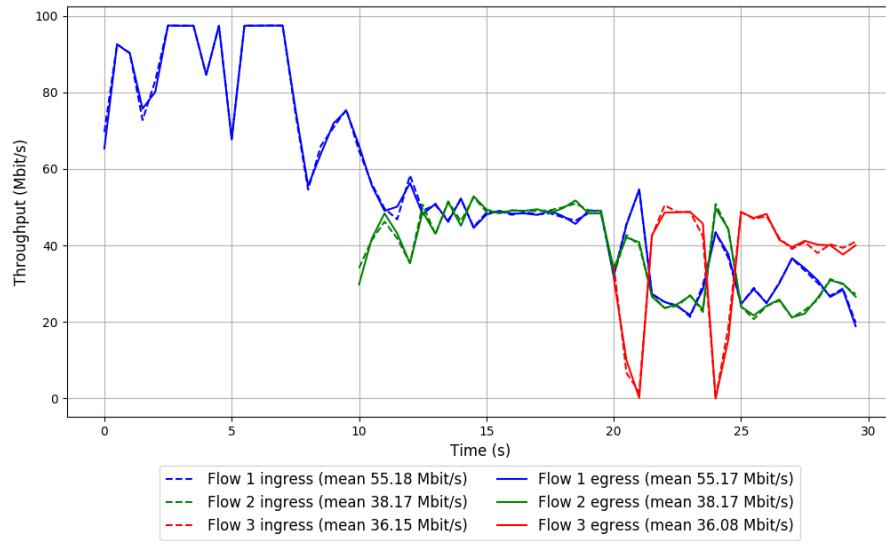


Run 1: Statistics of Verus

```
Start at: 2018-04-17 13:05:03
End at: 2018-04-17 13:05:33
Local clock offset: -4.24 ms
Remote clock offset: 0.833 ms

# Below is generated by plot.py at 2018-04-17 20:15:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.52 Mbit/s
95th percentile per-packet one-way delay: 53.531 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 55.17 Mbit/s
95th percentile per-packet one-way delay: 52.267 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 38.17 Mbit/s
95th percentile per-packet one-way delay: 55.850 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 36.08 Mbit/s
95th percentile per-packet one-way delay: 34.006 ms
Loss rate: 0.41%
```

Run 1: Report of Verus — Data Link

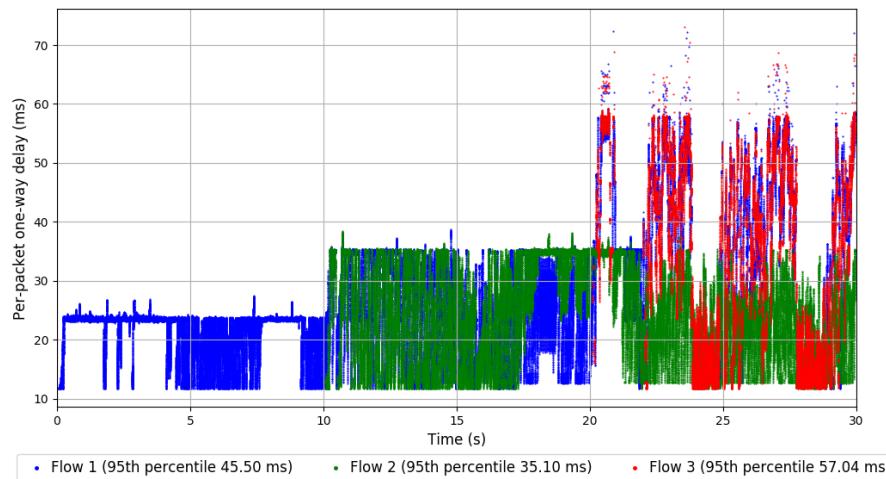
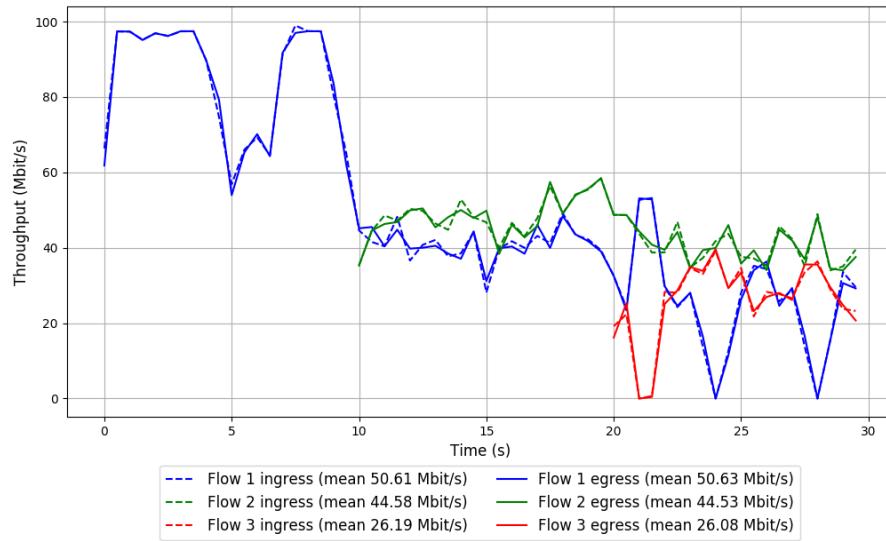


Run 2: Statistics of Verus

```
Start at: 2018-04-17 13:25:26
End at: 2018-04-17 13:25:56
Local clock offset: -8.848 ms
Remote clock offset: -8.366 ms

# Below is generated by plot.py at 2018-04-17 20:15:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.91 Mbit/s
95th percentile per-packet one-way delay: 46.504 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 50.63 Mbit/s
95th percentile per-packet one-way delay: 45.503 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 44.53 Mbit/s
95th percentile per-packet one-way delay: 35.097 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 26.08 Mbit/s
95th percentile per-packet one-way delay: 57.042 ms
Loss rate: 0.49%
```

Run 2: Report of Verus — Data Link

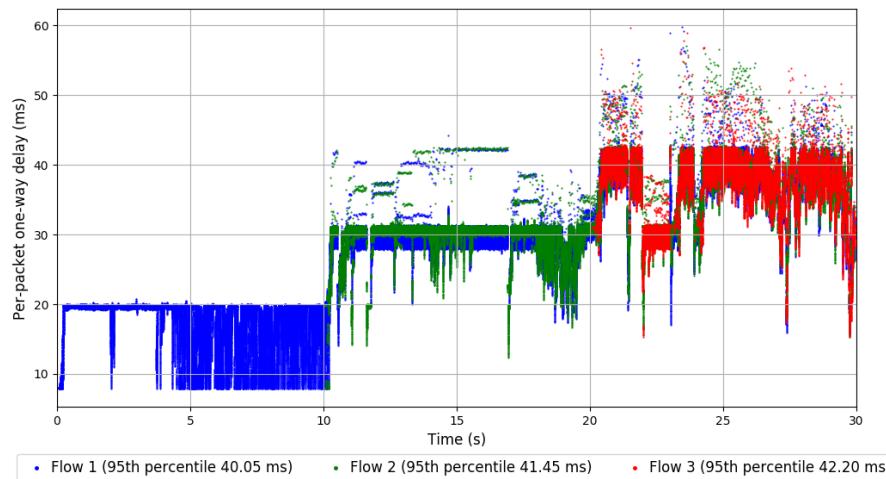
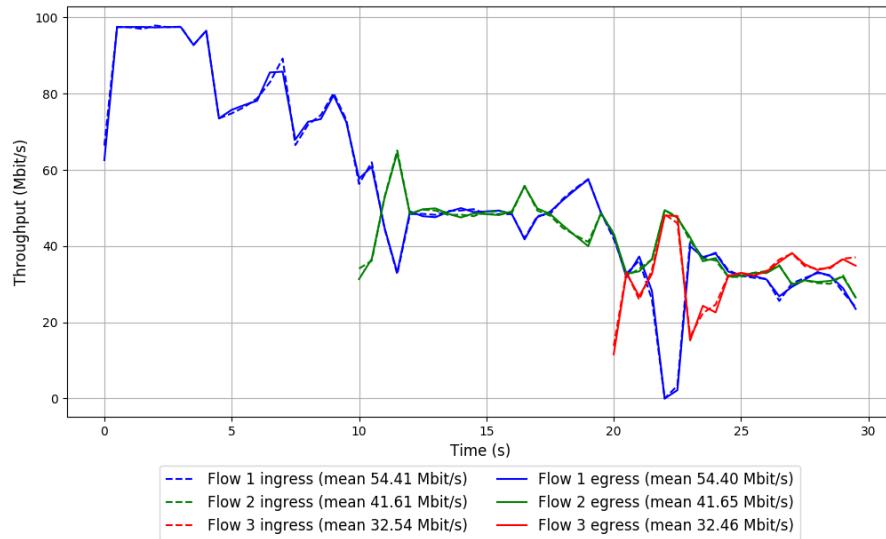


Run 3: Statistics of Verus

```
Start at: 2018-04-17 13:45:50
End at: 2018-04-17 13:46:20
Local clock offset: -7.467 ms
Remote clock offset: -1.81 ms

# Below is generated by plot.py at 2018-04-17 20:16:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.81 Mbit/s
95th percentile per-packet one-way delay: 41.124 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 54.40 Mbit/s
95th percentile per-packet one-way delay: 40.047 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 41.65 Mbit/s
95th percentile per-packet one-way delay: 41.446 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 42.200 ms
Loss rate: 0.73%
```

Run 3: Report of Verus — Data Link

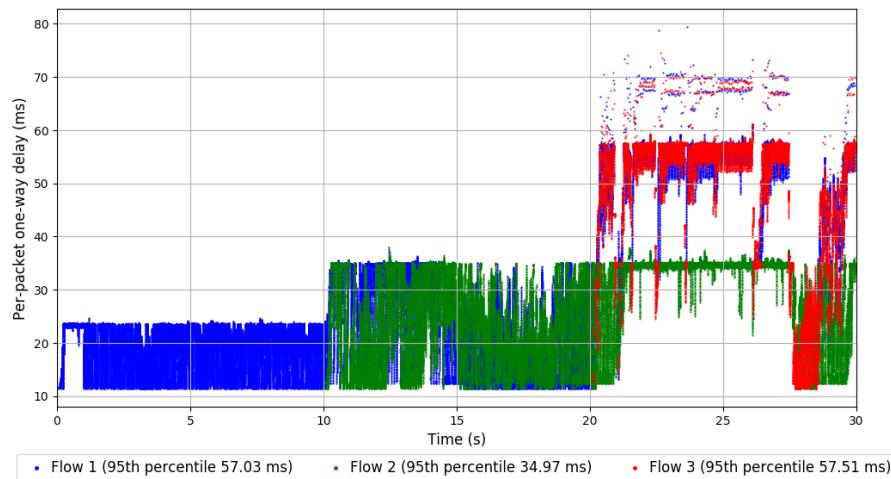
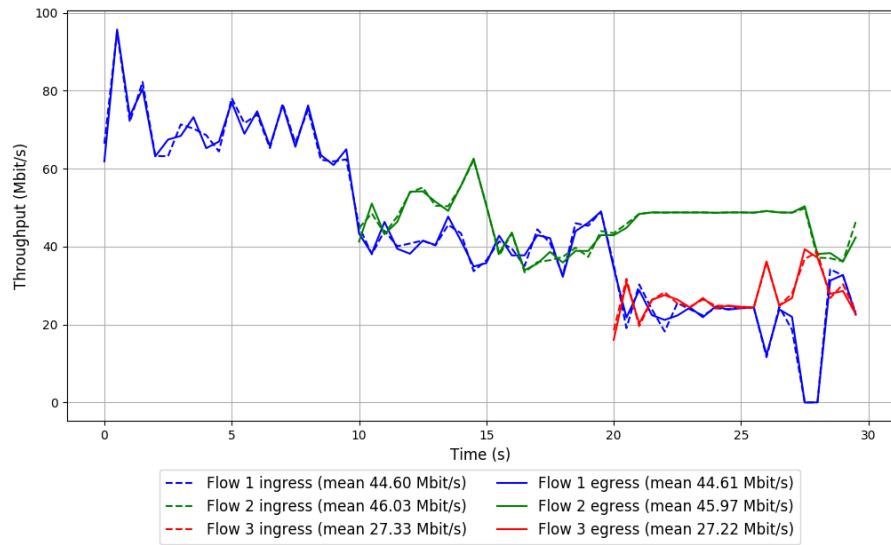


Run 4: Statistics of Verus

```
Start at: 2018-04-17 14:06:20
End at: 2018-04-17 14:06:50
Local clock offset: -3.121 ms
Remote clock offset: -0.929 ms

# Below is generated by plot.py at 2018-04-17 20:16:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.23 Mbit/s
95th percentile per-packet one-way delay: 57.087 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 44.61 Mbit/s
95th percentile per-packet one-way delay: 57.029 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 45.97 Mbit/s
95th percentile per-packet one-way delay: 34.965 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 27.22 Mbit/s
95th percentile per-packet one-way delay: 57.507 ms
Loss rate: 0.65%
```

Run 4: Report of Verus — Data Link

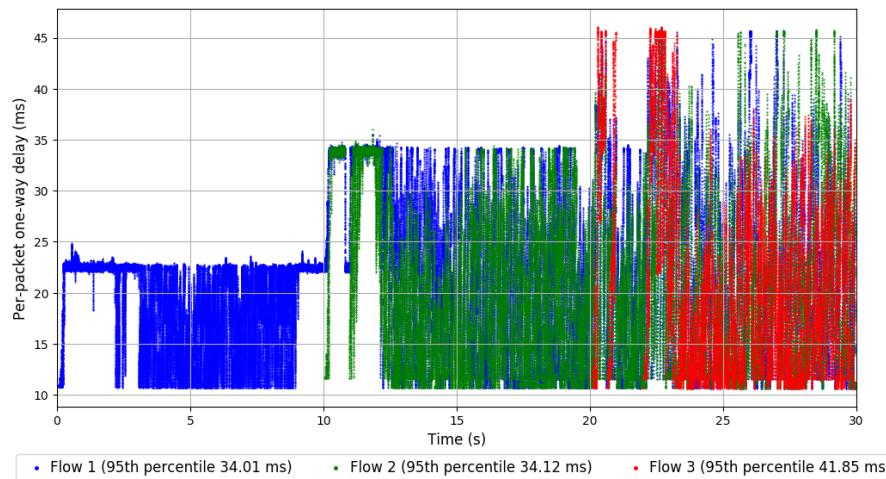
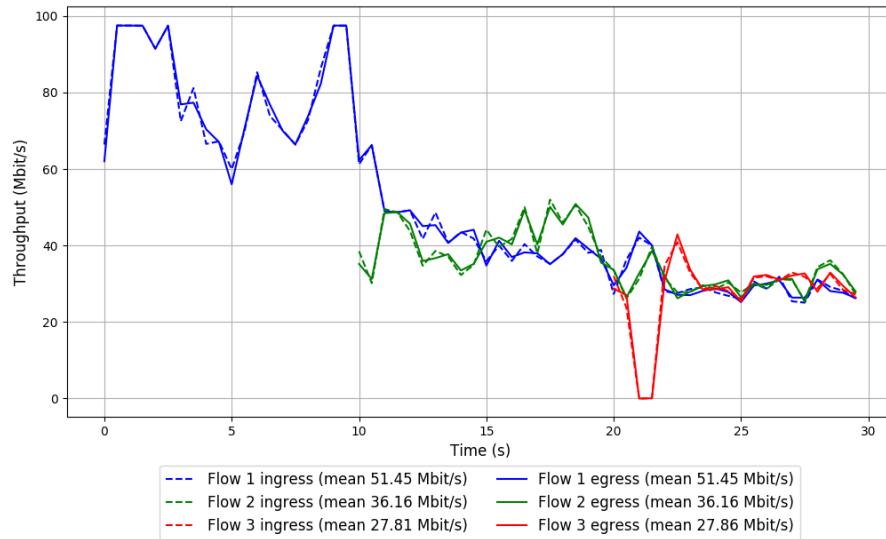


Run 5: Statistics of Verus

```
Start at: 2018-04-17 14:27:05
End at: 2018-04-17 14:27:35
Local clock offset: -1.796 ms
Remote clock offset: -4.373 ms

# Below is generated by plot.py at 2018-04-17 20:16:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.74 Mbit/s
95th percentile per-packet one-way delay: 34.139 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 51.45 Mbit/s
95th percentile per-packet one-way delay: 34.011 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 34.118 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 27.86 Mbit/s
95th percentile per-packet one-way delay: 41.849 ms
Loss rate: 0.21%
```

Run 5: Report of Verus — Data Link

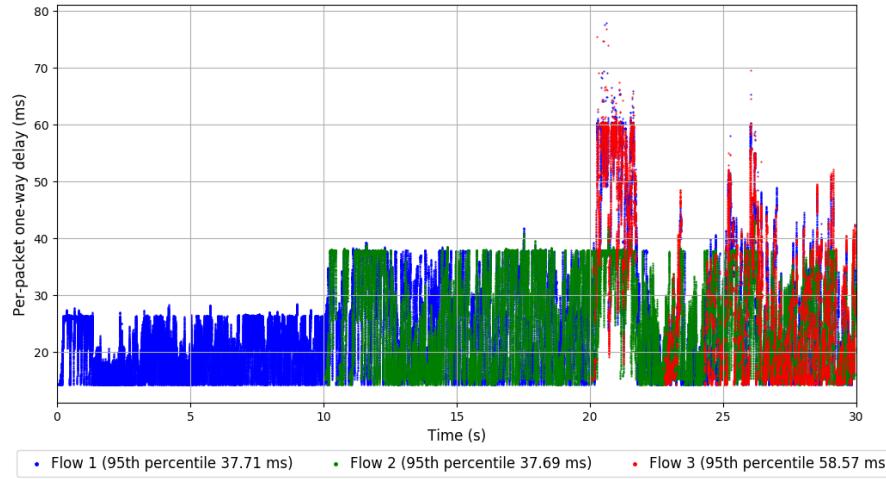
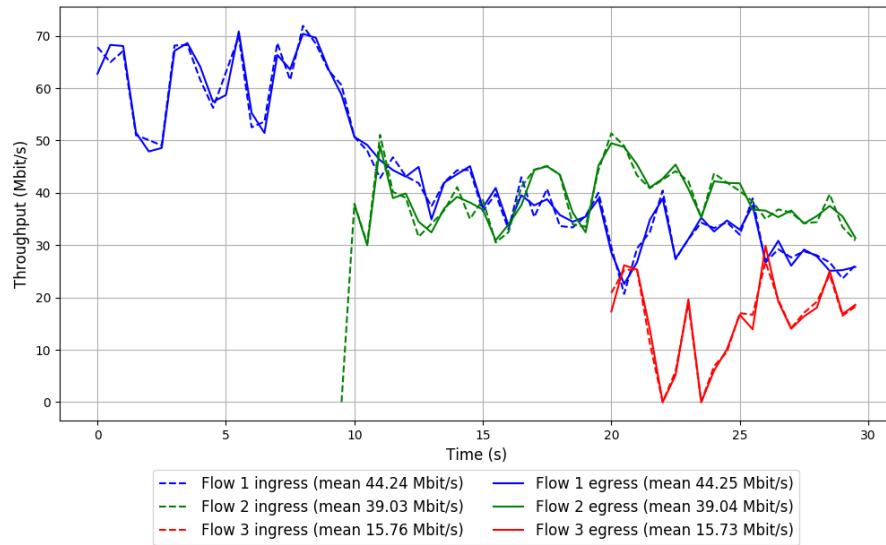


Run 6: Statistics of Verus

```
Start at: 2018-04-17 14:48:05
End at: 2018-04-17 14:48:35
Local clock offset: -10.373 ms
Remote clock offset: -11.971 ms

# Below is generated by plot.py at 2018-04-17 20:16:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.47 Mbit/s
95th percentile per-packet one-way delay: 38.106 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.25 Mbit/s
95th percentile per-packet one-way delay: 37.708 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 39.04 Mbit/s
95th percentile per-packet one-way delay: 37.691 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 58.569 ms
Loss rate: 0.41%
```

Run 6: Report of Verus — Data Link

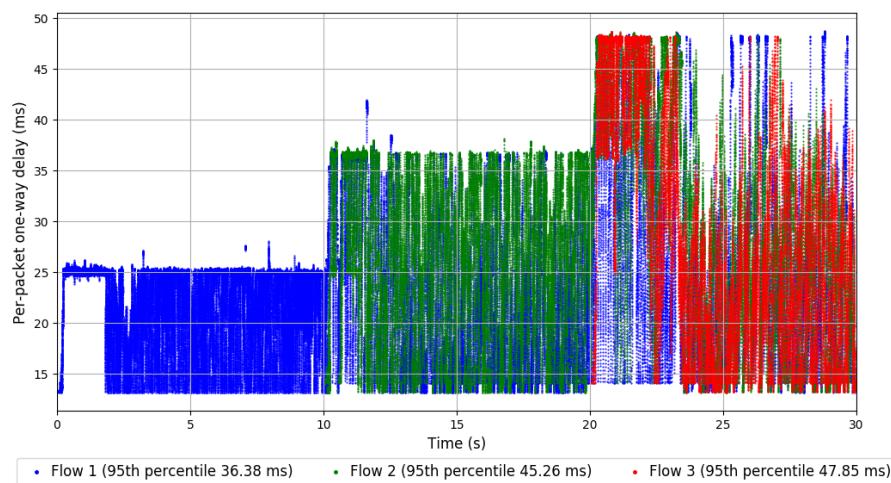
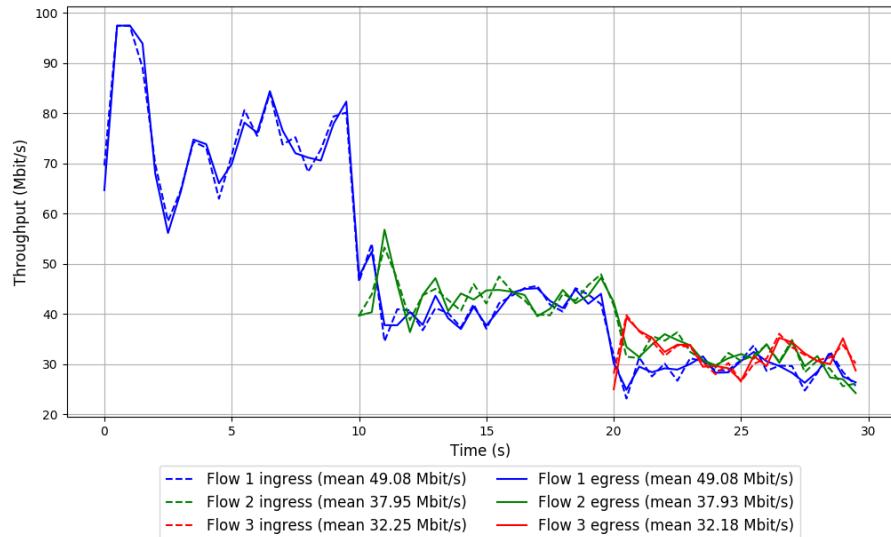


Run 7: Statistics of Verus

```
Start at: 2018-04-17 15:10:34
End at: 2018-04-17 15:11:04
Local clock offset: -13.37 ms
Remote clock offset: -6.206 ms

# Below is generated by plot.py at 2018-04-17 20:16:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 43.215 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 36.385 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 45.256 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 47.851 ms
Loss rate: 0.40%
```

Run 7: Report of Verus — Data Link

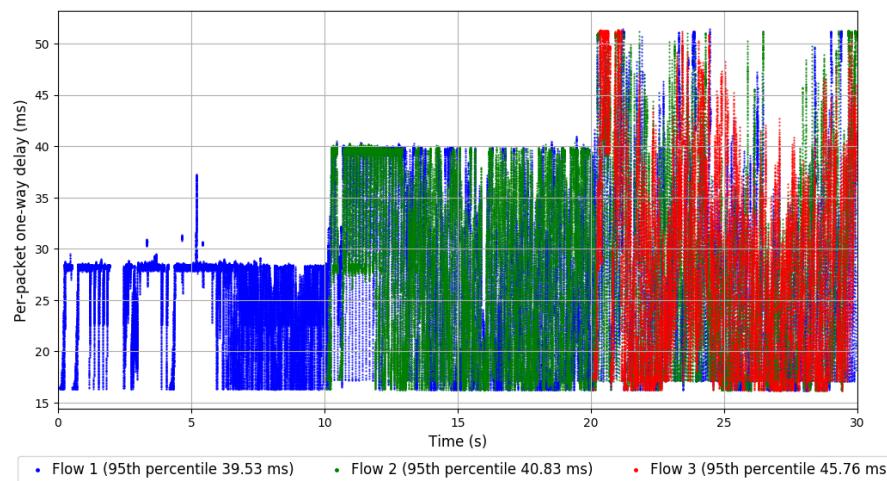
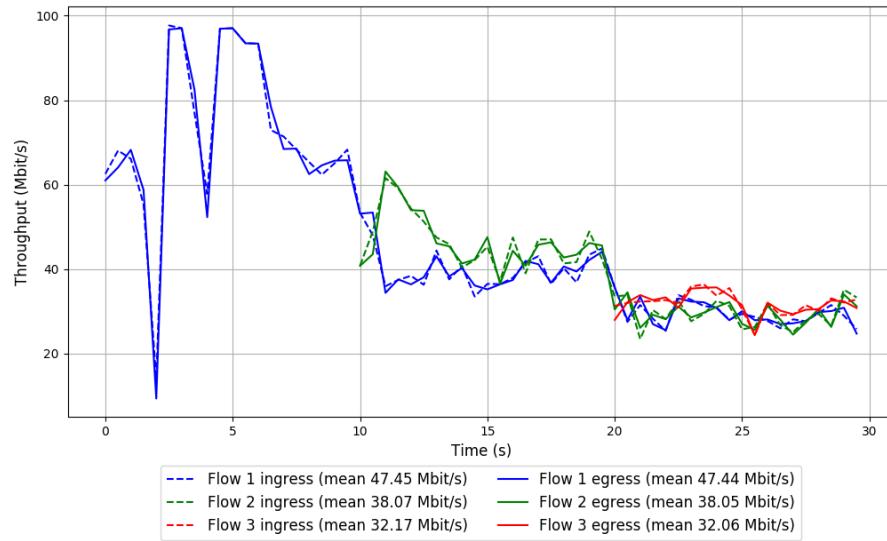


Run 8: Statistics of Verus

```
Start at: 2018-04-17 15:32:24
End at: 2018-04-17 15:32:54
Local clock offset: -10.365 ms
Remote clock offset: -10.897 ms

# Below is generated by plot.py at 2018-04-17 20:16:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.38 Mbit/s
95th percentile per-packet one-way delay: 39.893 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 47.44 Mbit/s
95th percentile per-packet one-way delay: 39.530 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 38.05 Mbit/s
95th percentile per-packet one-way delay: 40.828 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 32.06 Mbit/s
95th percentile per-packet one-way delay: 45.763 ms
Loss rate: 0.56%
```

Run 8: Report of Verus — Data Link

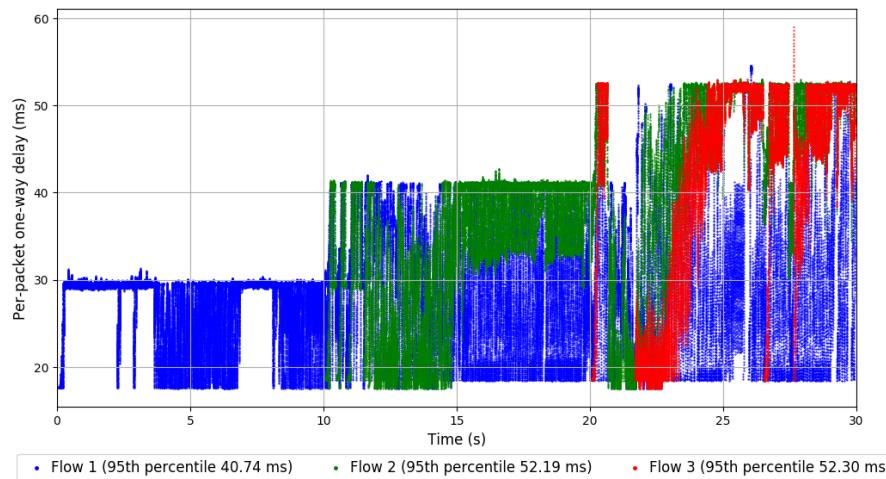
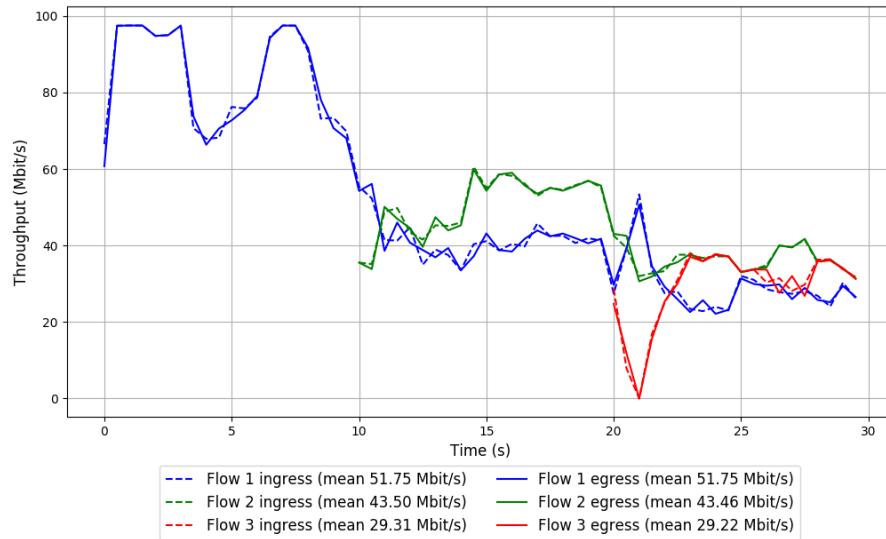


Run 9: Statistics of Verus

```
Start at: 2018-04-17 15:53:53
End at: 2018-04-17 15:54:23
Local clock offset: -14.439 ms
Remote clock offset: -19.936 ms

# Below is generated by plot.py at 2018-04-17 20:16:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.36 Mbit/s
95th percentile per-packet one-way delay: 51.963 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 51.75 Mbit/s
95th percentile per-packet one-way delay: 40.736 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 52.185 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 52.300 ms
Loss rate: 0.65%
```

Run 9: Report of Verus — Data Link

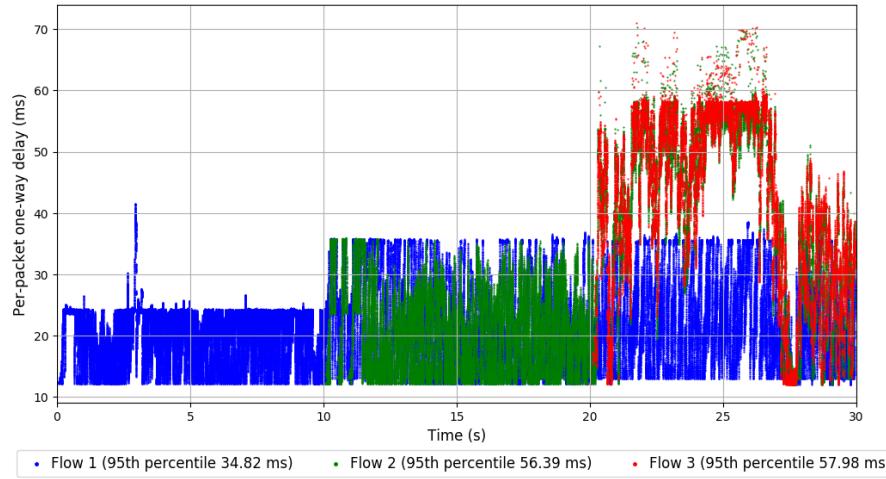
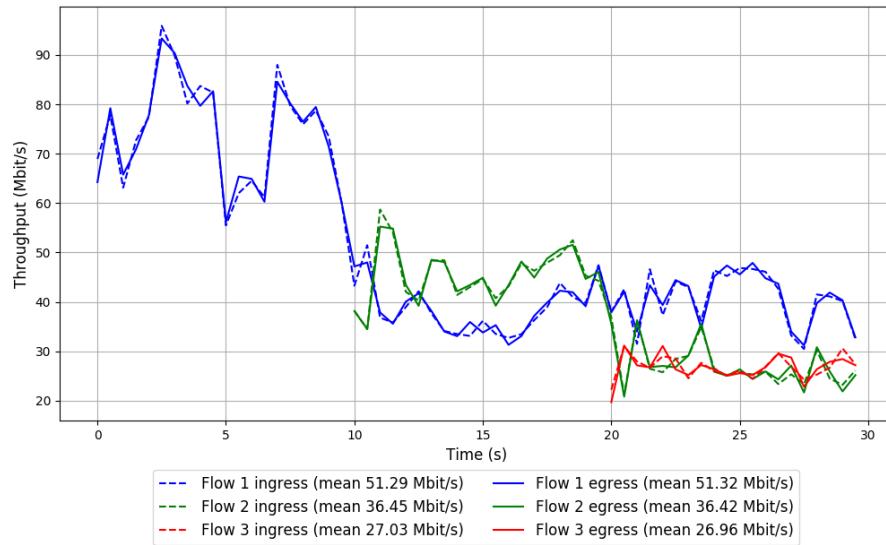


Run 10: Statistics of Verus

```
Start at: 2018-04-17 16:15:55
End at: 2018-04-17 16:16:25
Local clock offset: -13.634 ms
Remote clock offset: -9.797 ms

# Below is generated by plot.py at 2018-04-17 20:16:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.50 Mbit/s
95th percentile per-packet one-way delay: 54.282 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 51.32 Mbit/s
95th percentile per-packet one-way delay: 34.824 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 36.42 Mbit/s
95th percentile per-packet one-way delay: 56.393 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 26.96 Mbit/s
95th percentile per-packet one-way delay: 57.982 ms
Loss rate: 0.44%
```

Run 10: Report of Verus — Data Link

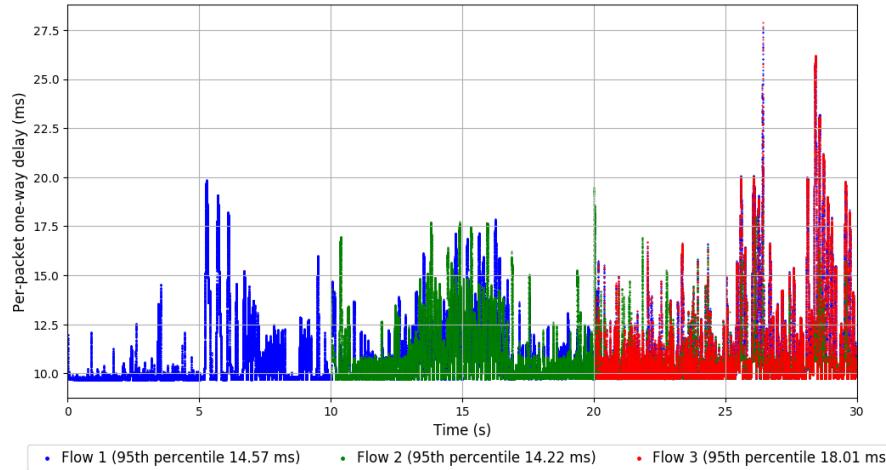
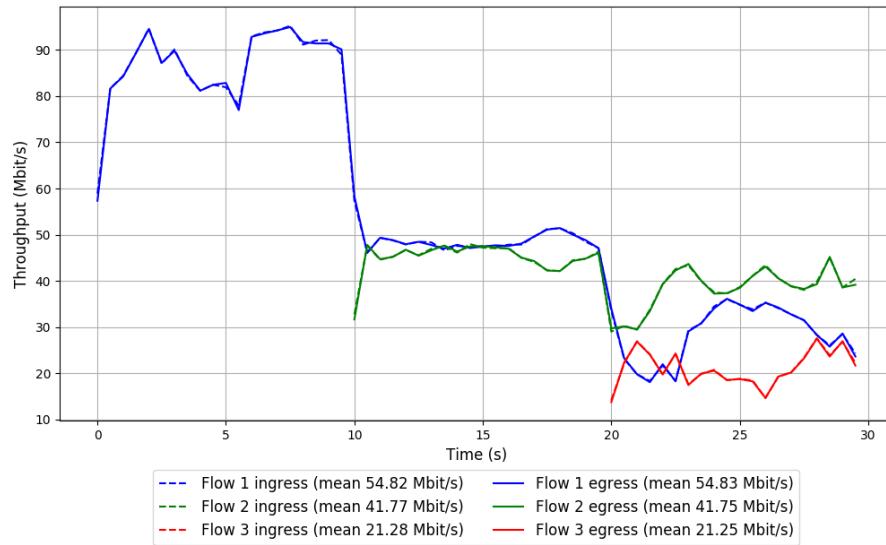


Run 1: Statistics of Copa

```
Start at: 2018-04-17 13:21:49
End at: 2018-04-17 13:22:19
Local clock offset: -3.856 ms
Remote clock offset: -1.837 ms

# Below is generated by plot.py at 2018-04-17 20:18:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.66 Mbit/s
95th percentile per-packet one-way delay: 14.677 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 54.83 Mbit/s
95th percentile per-packet one-way delay: 14.566 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 14.218 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 18.009 ms
Loss rate: 0.39%
```

Run 1: Report of Copa — Data Link

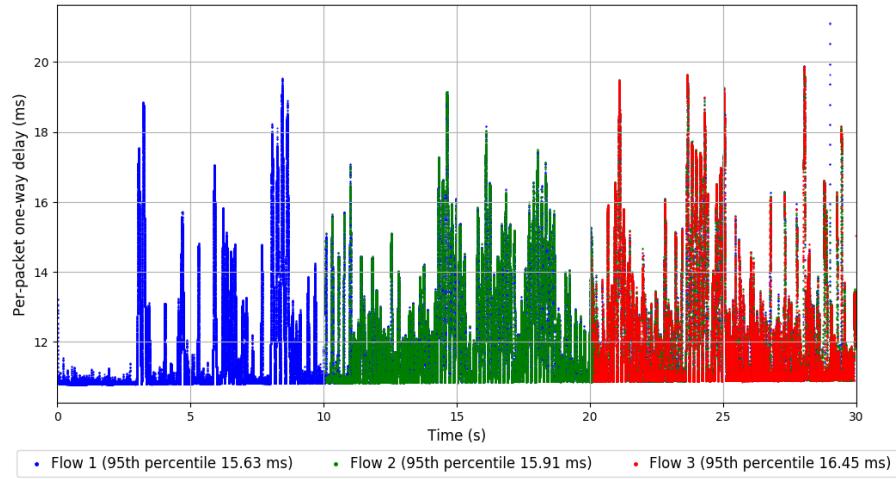
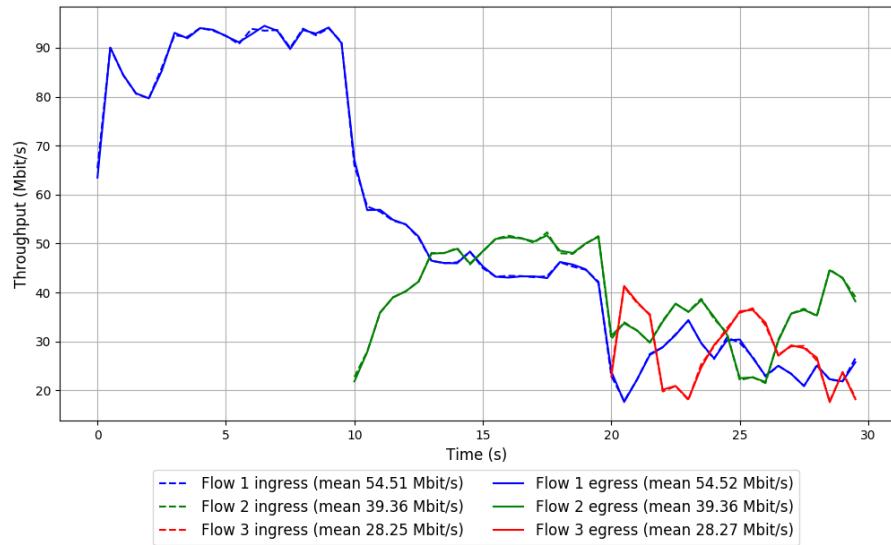


Run 2: Statistics of Copa

```
Start at: 2018-04-17 13:42:14
End at: 2018-04-17 13:42:44
Local clock offset: -4.325 ms
Remote clock offset: -2.336 ms

# Below is generated by plot.py at 2018-04-17 20:18:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 15.835 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 54.52 Mbit/s
95th percentile per-packet one-way delay: 15.632 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 15.906 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 28.27 Mbit/s
95th percentile per-packet one-way delay: 16.450 ms
Loss rate: 0.17%
```

Run 2: Report of Copa — Data Link

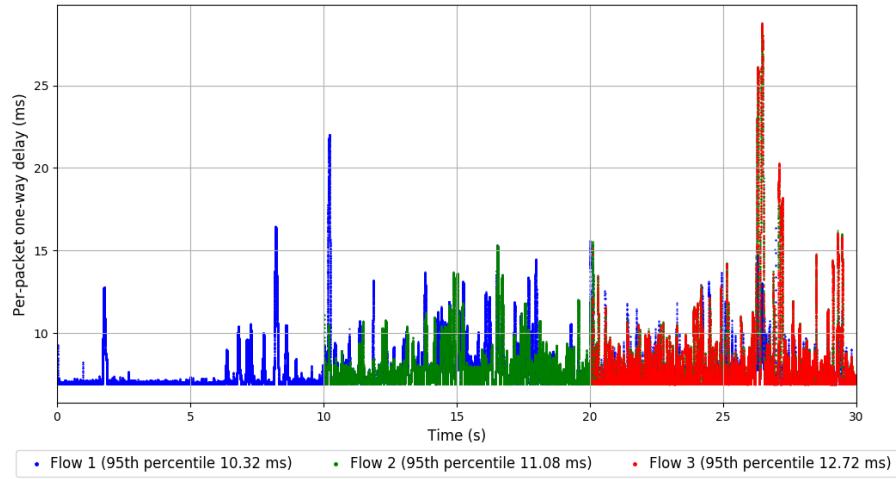
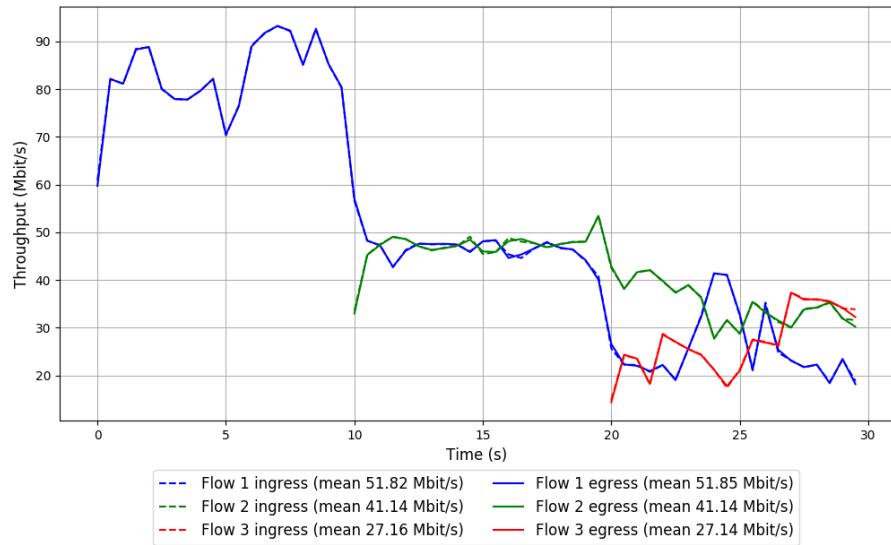


Run 3: Statistics of Copa

```
Start at: 2018-04-17 14:02:41
End at: 2018-04-17 14:03:11
Local clock offset: -6.394 ms
Remote clock offset: 0.51 ms

# Below is generated by plot.py at 2018-04-17 20:19:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 10.704 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 10.319 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 41.14 Mbit/s
95th percentile per-packet one-way delay: 11.076 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 12.720 ms
Loss rate: 0.37%
```

Run 3: Report of Copa — Data Link

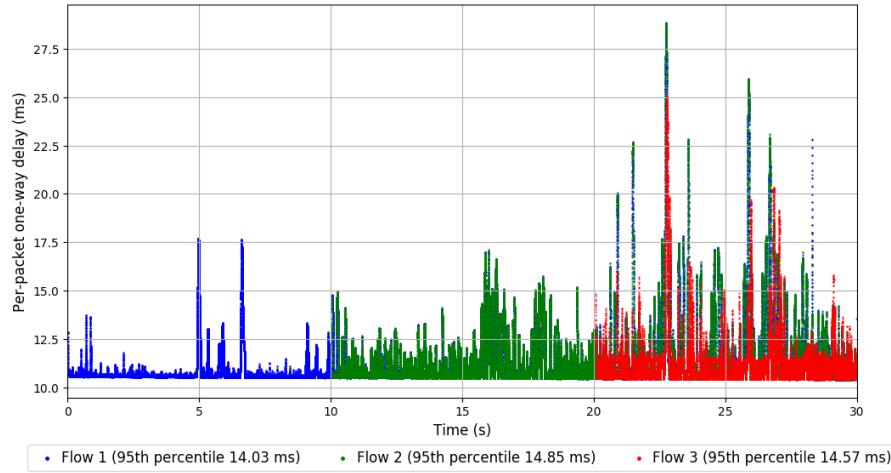
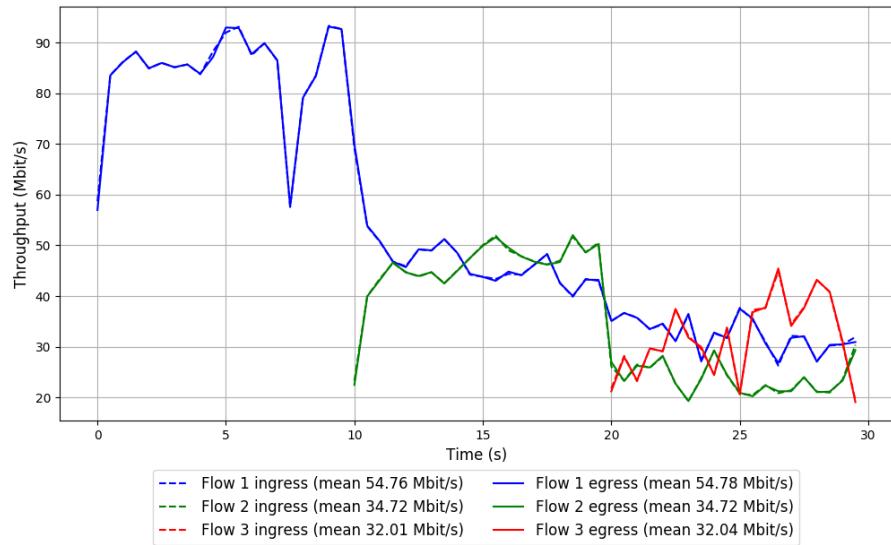


Run 4: Statistics of Copa

```
Start at: 2018-04-17 14:23:13
End at: 2018-04-17 14:23:43
Local clock offset: -2.625 ms
Remote clock offset: -3.932 ms

# Below is generated by plot.py at 2018-04-17 20:19:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.49 Mbit/s
95th percentile per-packet one-way delay: 14.429 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 54.78 Mbit/s
95th percentile per-packet one-way delay: 14.034 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 34.72 Mbit/s
95th percentile per-packet one-way delay: 14.846 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 14.574 ms
Loss rate: 0.13%
```

Run 4: Report of Copa — Data Link

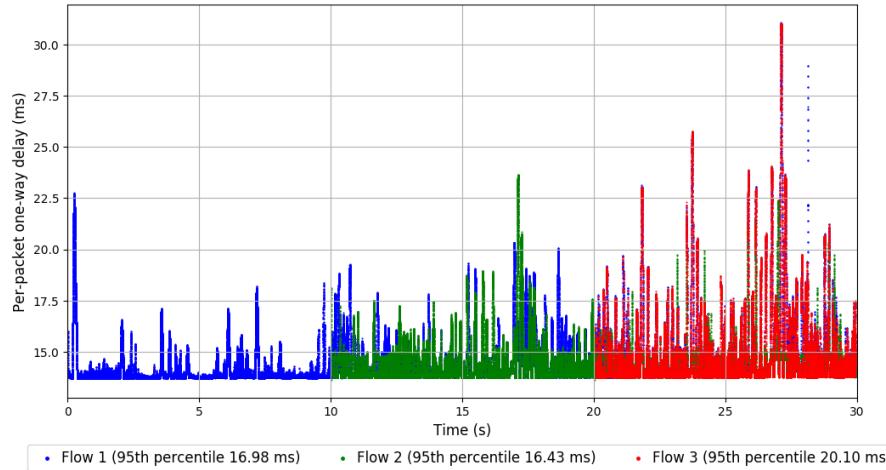
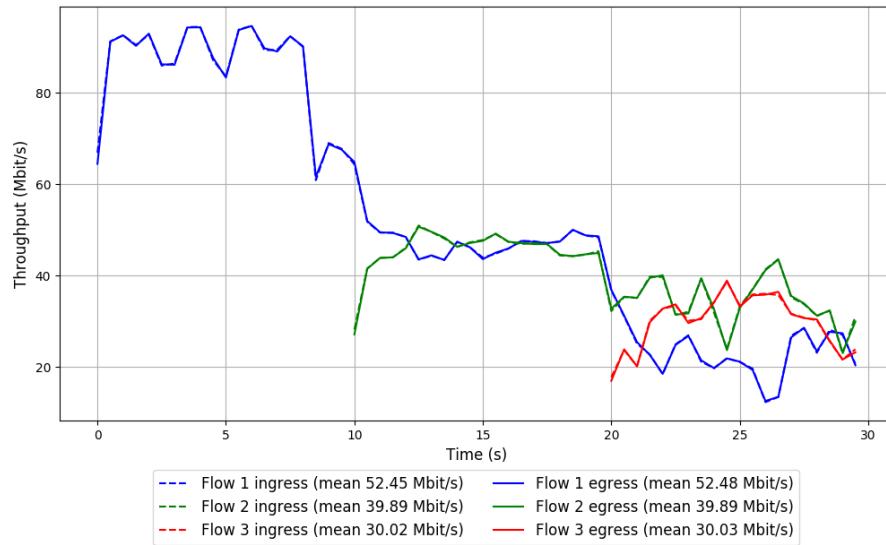


Run 5: Statistics of Copa

```
Start at: 2018-04-17 14:44:04
End at: 2018-04-17 14:44:34
Local clock offset: -11.114 ms
Remote clock offset: -12.553 ms

# Below is generated by plot.py at 2018-04-17 20:19:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.97 Mbit/s
95th percentile per-packet one-way delay: 17.273 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 52.48 Mbit/s
95th percentile per-packet one-way delay: 16.985 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.89 Mbit/s
95th percentile per-packet one-way delay: 16.428 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 20.099 ms
Loss rate: 0.21%
```

Run 5: Report of Copa — Data Link

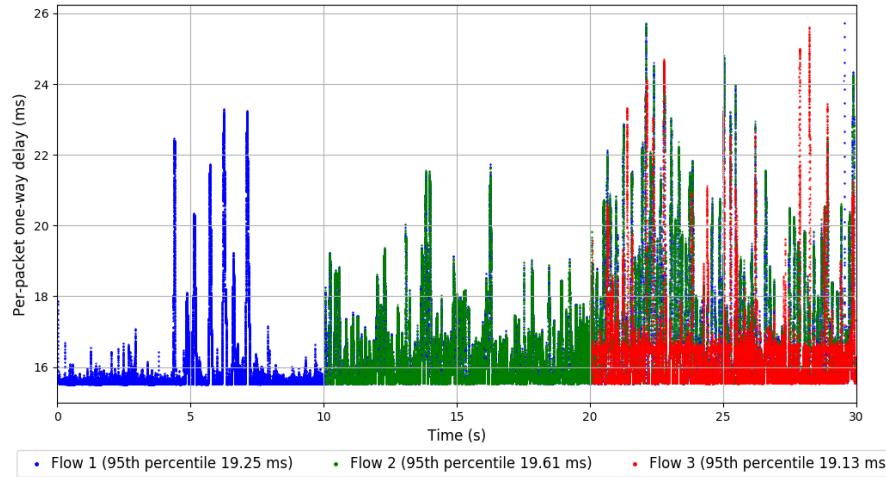
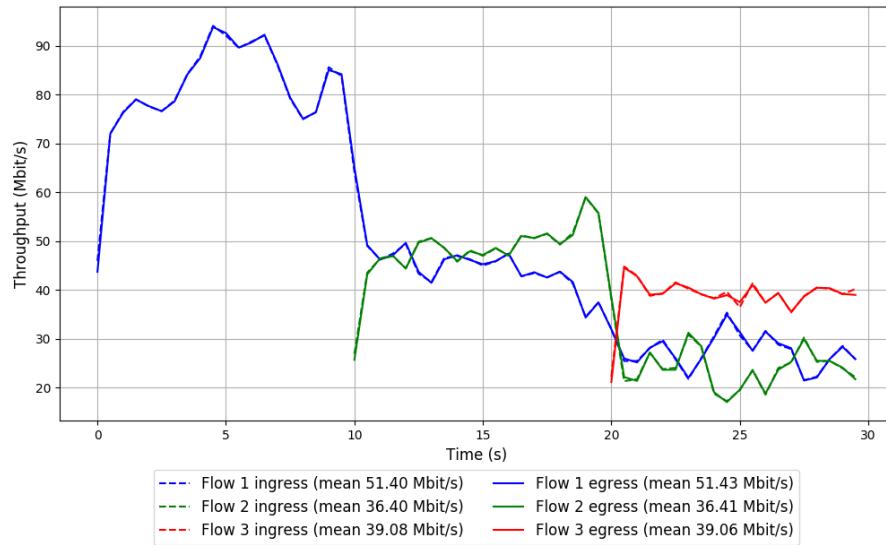


Run 6: Statistics of Copa

```
Start at: 2018-04-17 15:06:44
End at: 2018-04-17 15:07:14
Local clock offset: -10.847 ms
Remote clock offset: -6.24 ms

# Below is generated by plot.py at 2018-04-17 20:19:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.59 Mbit/s
95th percentile per-packet one-way delay: 19.359 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 51.43 Mbit/s
95th percentile per-packet one-way delay: 19.251 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 19.615 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 39.06 Mbit/s
95th percentile per-packet one-way delay: 19.132 ms
Loss rate: 0.32%
```

Run 6: Report of Copa — Data Link

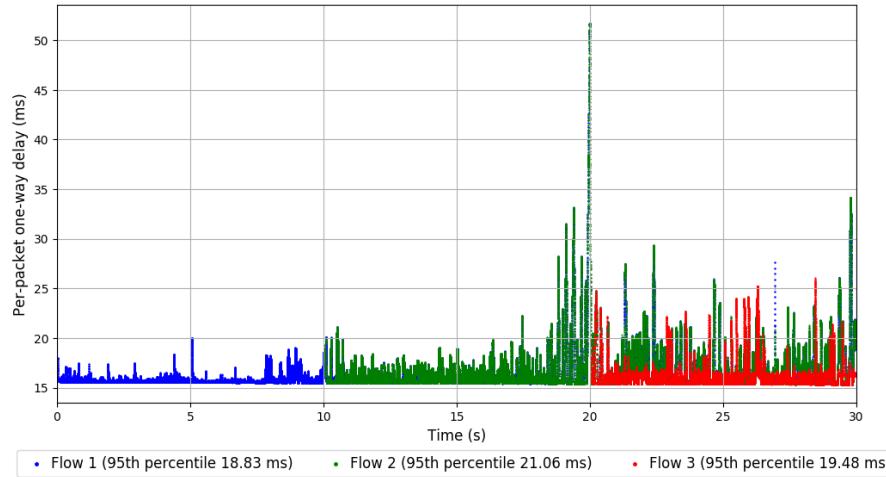
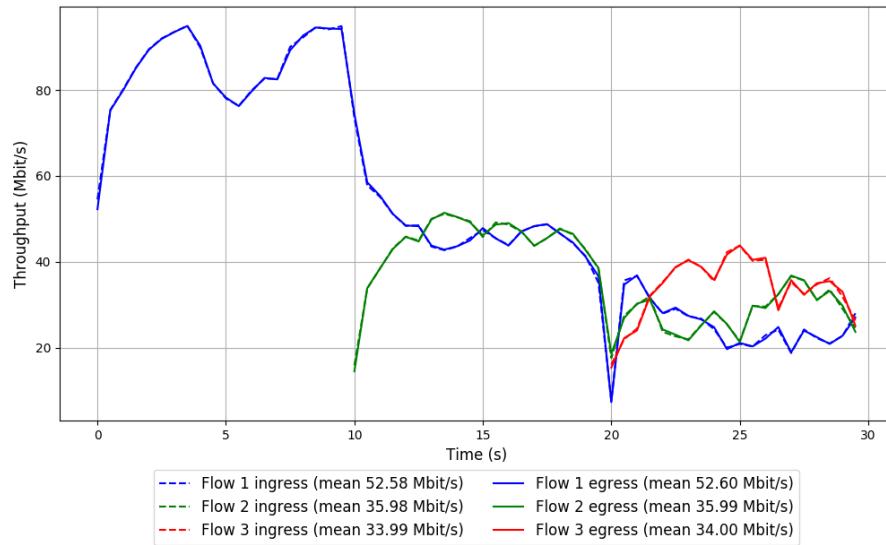


Run 7: Statistics of Copa

```
Start at: 2018-04-17 15:28:22
End at: 2018-04-17 15:28:52
Local clock offset: -10.919 ms
Remote clock offset: -8.918 ms

# Below is generated by plot.py at 2018-04-17 20:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 19.607 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 18.828 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 21.062 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 34.00 Mbit/s
95th percentile per-packet one-way delay: 19.481 ms
Loss rate: 0.23%
```

Run 7: Report of Copa — Data Link

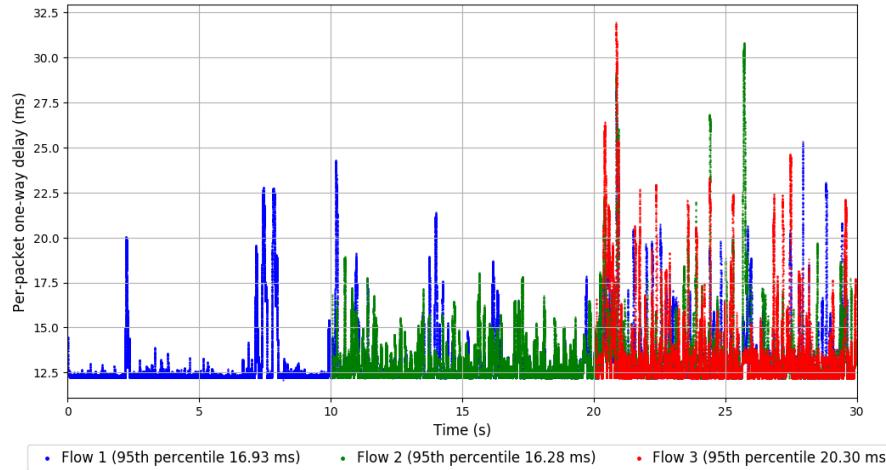
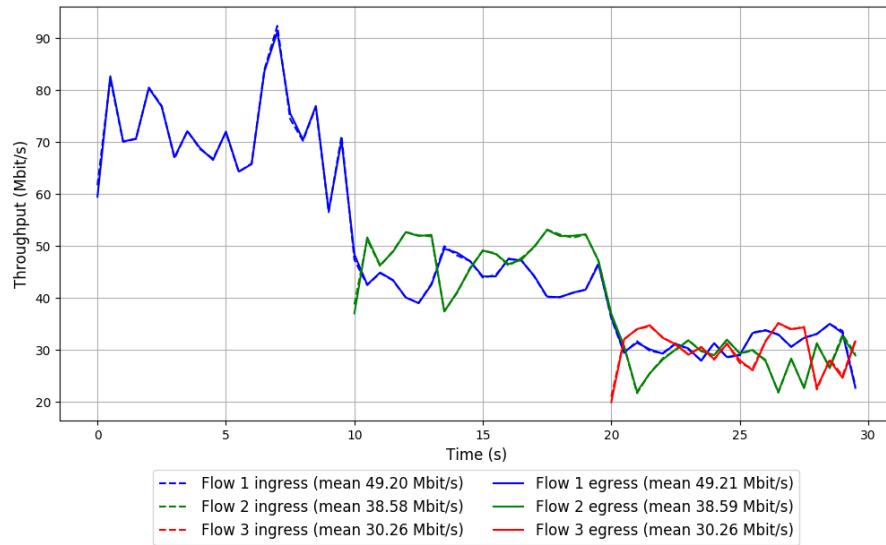


Run 8: Statistics of Copa

```
Start at: 2018-04-17 15:50:03
End at: 2018-04-17 15:50:33
Local clock offset: -14.699 ms
Remote clock offset: -14.484 ms

# Below is generated by plot.py at 2018-04-17 20:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.90 Mbit/s
95th percentile per-packet one-way delay: 17.080 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 16.927 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 38.59 Mbit/s
95th percentile per-packet one-way delay: 16.278 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 30.26 Mbit/s
95th percentile per-packet one-way delay: 20.302 ms
Loss rate: 0.23%
```

Run 8: Report of Copa — Data Link

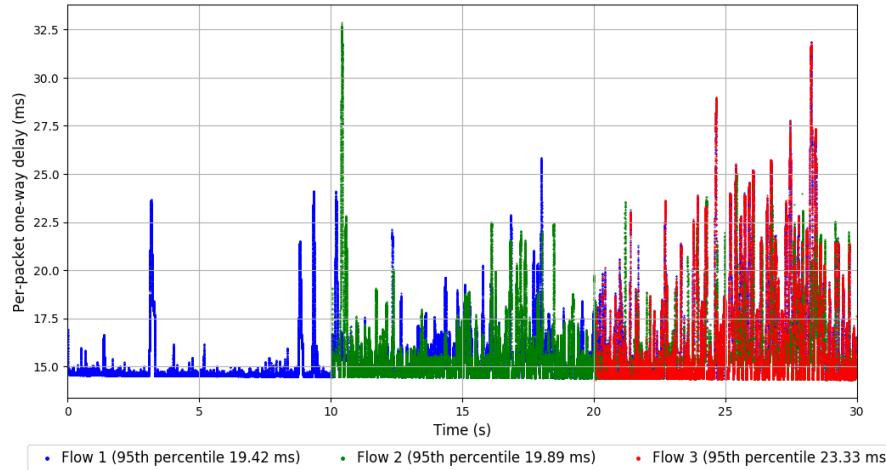
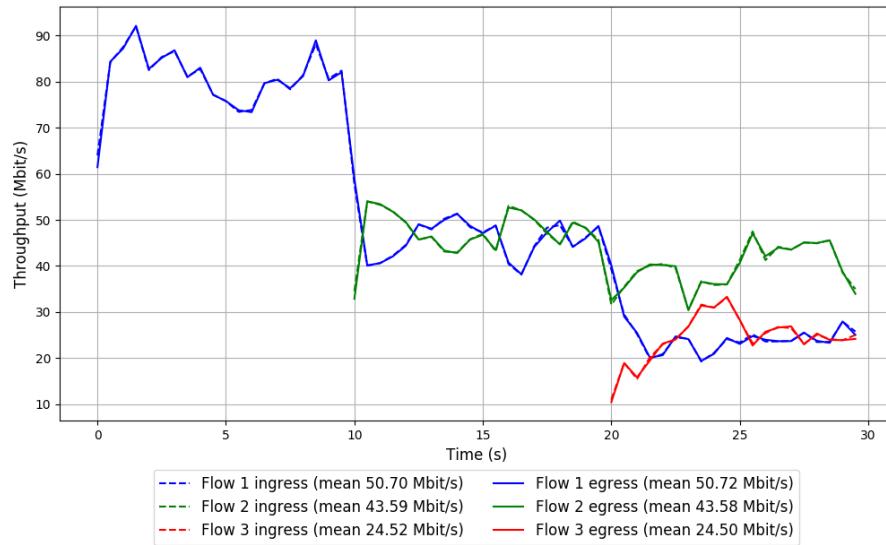


Run 9: Statistics of Copa

```
Start at: 2018-04-17 16:12:10
End at: 2018-04-17 16:12:40
Local clock offset: -13.649 ms
Remote clock offset: -10.556 ms

# Below is generated by plot.py at 2018-04-17 20:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.83 Mbit/s
95th percentile per-packet one-way delay: 20.345 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 50.72 Mbit/s
95th percentile per-packet one-way delay: 19.423 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 43.58 Mbit/s
95th percentile per-packet one-way delay: 19.891 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 23.329 ms
Loss rate: 0.32%
```

Run 9: Report of Copa — Data Link

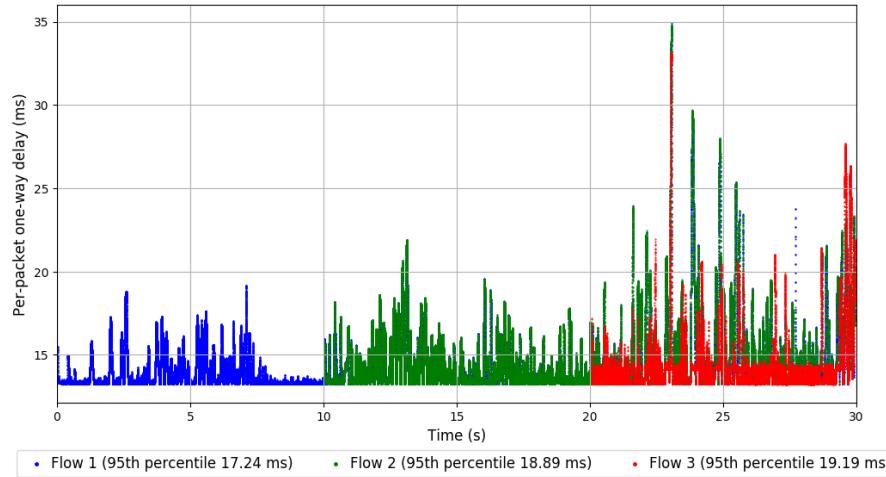
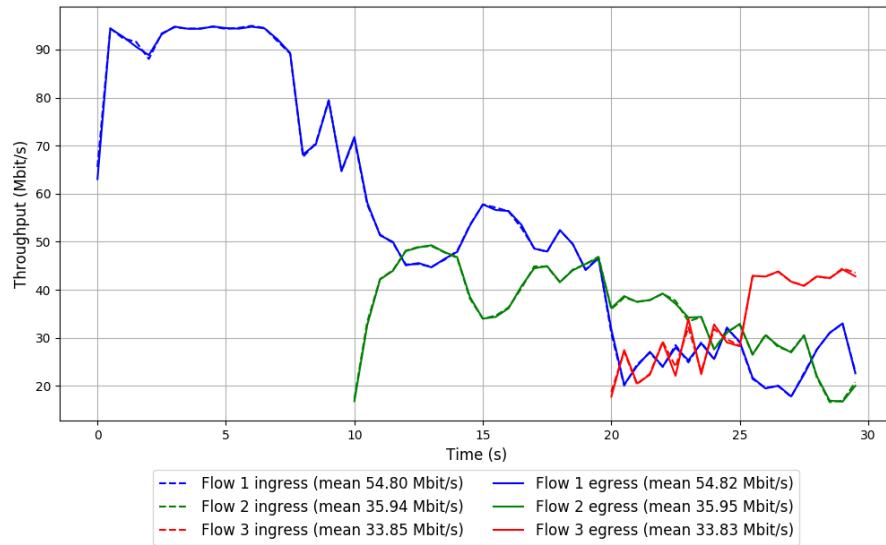


Run 10: Statistics of Copa

```
Start at: 2018-04-17 16:34:04
End at: 2018-04-17 16:34:34
Local clock offset: -9.023 ms
Remote clock offset: -10.185 ms

# Below is generated by plot.py at 2018-04-17 20:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.95 Mbit/s
95th percentile per-packet one-way delay: 18.016 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 54.82 Mbit/s
95th percentile per-packet one-way delay: 17.238 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 35.95 Mbit/s
95th percentile per-packet one-way delay: 18.893 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 33.83 Mbit/s
95th percentile per-packet one-way delay: 19.194 ms
Loss rate: 0.31%
```

Run 10: Report of Copa — Data Link

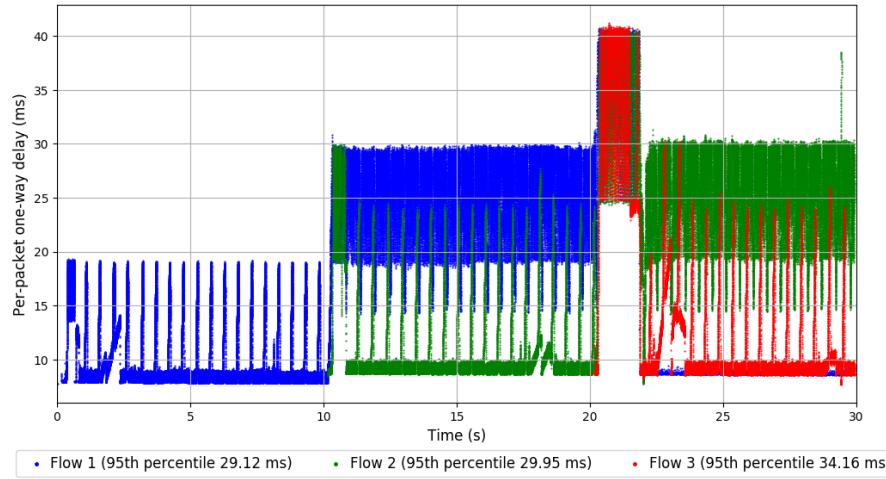
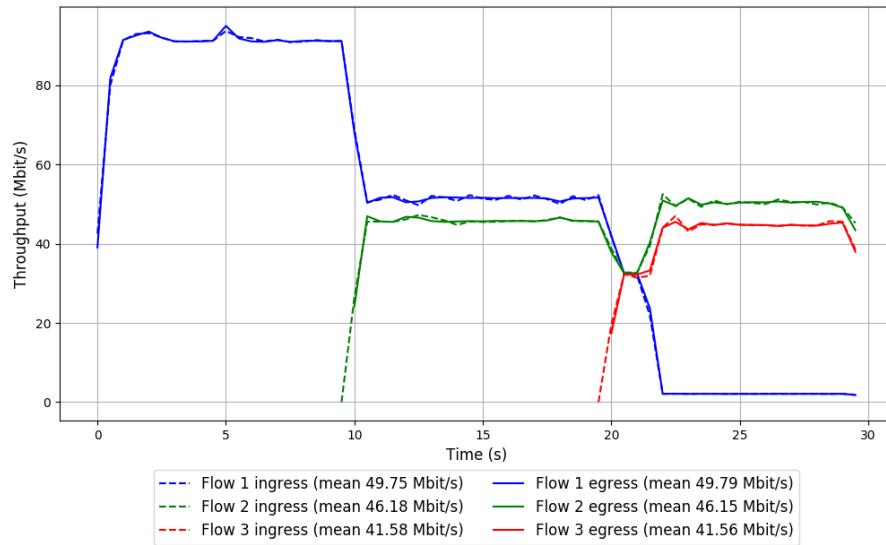


```
Run 1: Statistics of FillP

Start at: 2018-04-17 13:07:38
End at: 2018-04-17 13:08:08
Local clock offset: -6.455 ms
Remote clock offset: 0.841 ms

# Below is generated by plot.py at 2018-04-17 20:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 29.635 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 49.79 Mbit/s
95th percentile per-packet one-way delay: 29.118 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.15 Mbit/s
95th percentile per-packet one-way delay: 29.948 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 41.56 Mbit/s
95th percentile per-packet one-way delay: 34.159 ms
Loss rate: 0.28%
```

Run 1: Report of FillP — Data Link

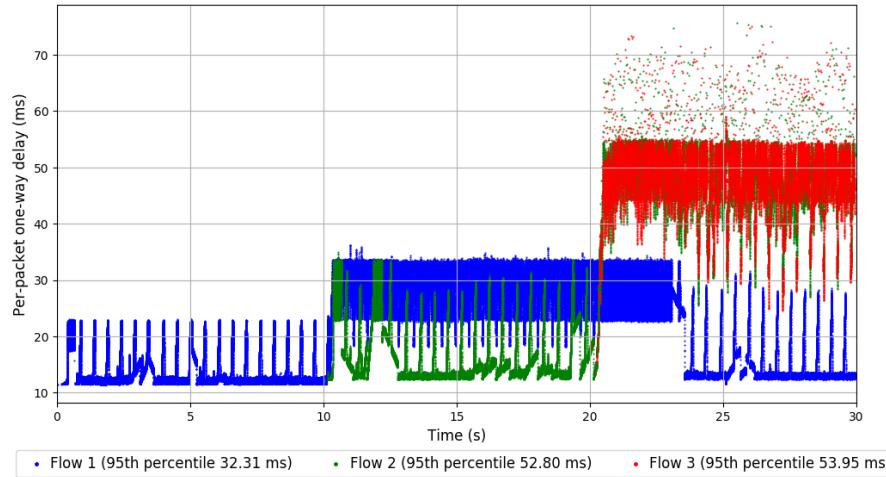
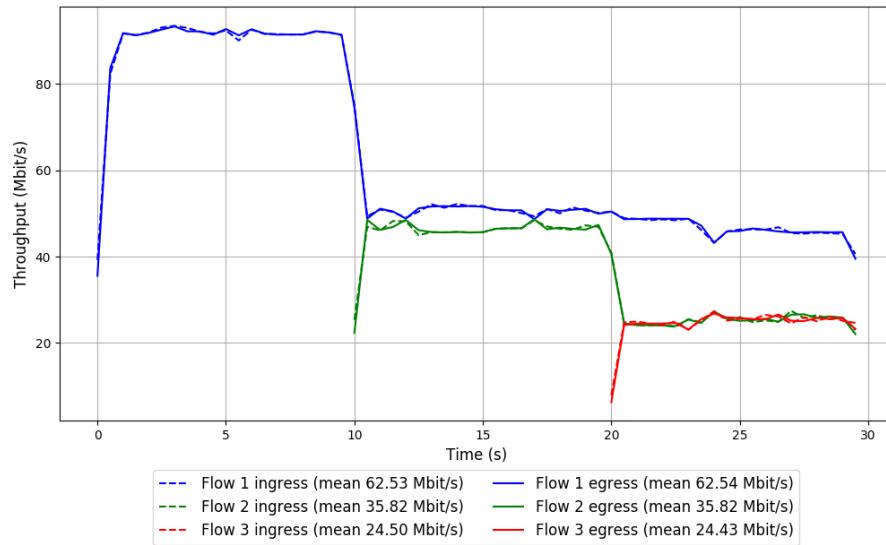


Run 2: Statistics of FillP

```
Start at: 2018-04-17 13:27:57
End at: 2018-04-17 13:28:27
Local clock offset: -3.427 ms
Remote clock offset: -2.581 ms

# Below is generated by plot.py at 2018-04-17 20:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.43 Mbit/s
95th percentile per-packet one-way delay: 50.986 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 62.54 Mbit/s
95th percentile per-packet one-way delay: 32.315 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 35.82 Mbit/s
95th percentile per-packet one-way delay: 52.801 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 53.950 ms
Loss rate: 0.71%
```

Run 2: Report of FillP — Data Link

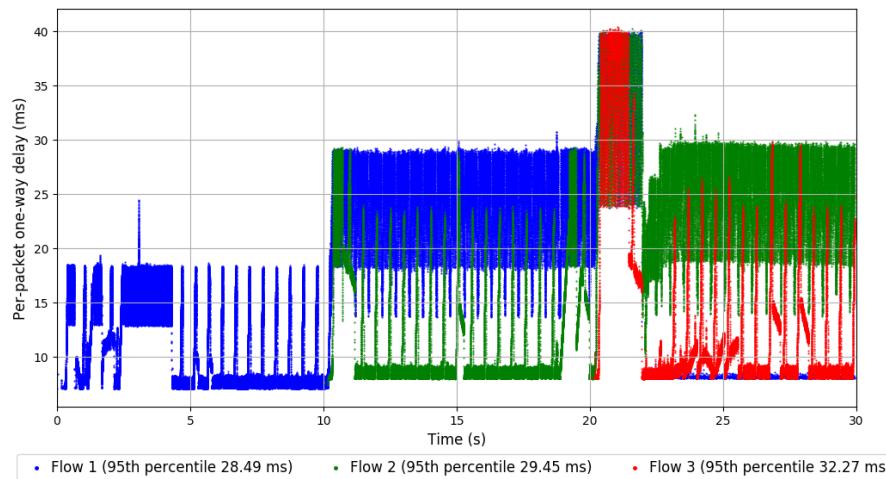
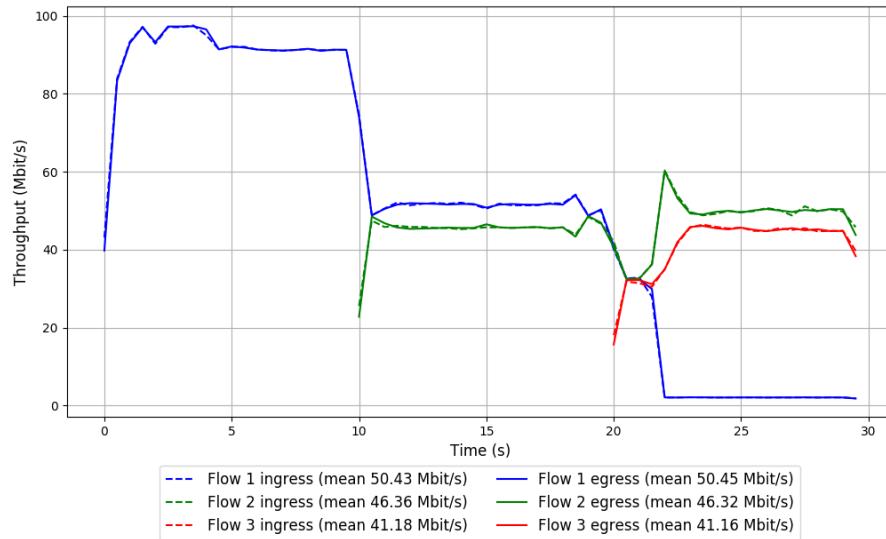


Run 3: Statistics of FillP

```
Start at: 2018-04-17 13:48:17
End at: 2018-04-17 13:48:47
Local clock offset: -7.47 ms
Remote clock offset: -0.796 ms

# Below is generated by plot.py at 2018-04-17 20:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 29.011 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 50.45 Mbit/s
95th percentile per-packet one-way delay: 28.490 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 46.32 Mbit/s
95th percentile per-packet one-way delay: 29.447 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 41.16 Mbit/s
95th percentile per-packet one-way delay: 32.272 ms
Loss rate: 0.27%
```

Run 3: Report of FillP — Data Link

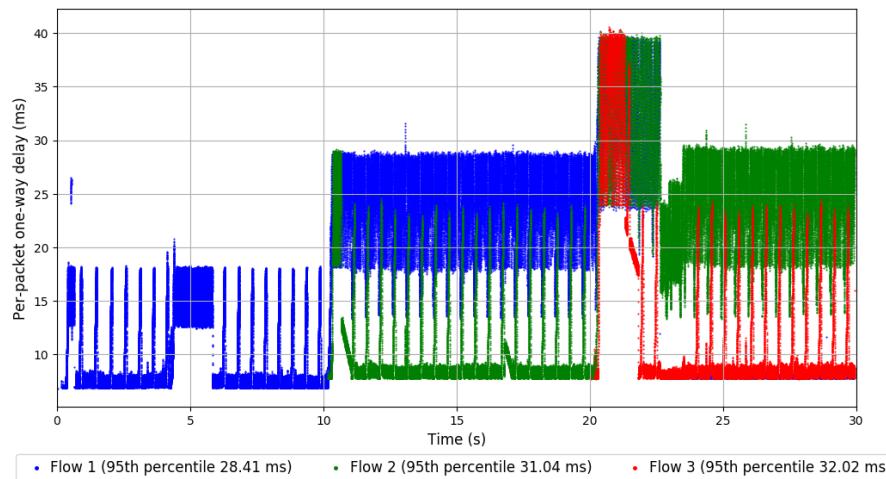
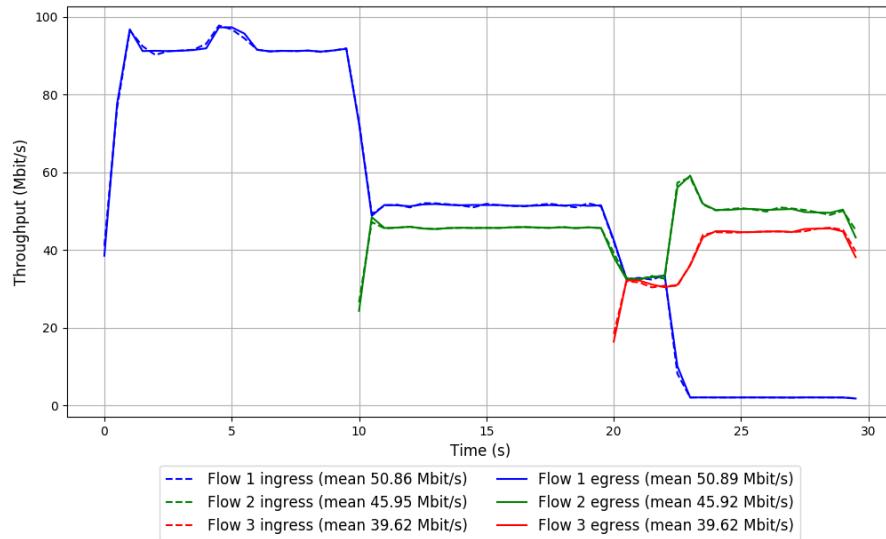


Run 4: Statistics of FillP

```
Start at: 2018-04-17 14:08:58
End at: 2018-04-17 14:09:28
Local clock offset: -6.311 ms
Remote clock offset: 0.289 ms

# Below is generated by plot.py at 2018-04-17 20:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 29.163 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 50.89 Mbit/s
95th percentile per-packet one-way delay: 28.406 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.92 Mbit/s
95th percentile per-packet one-way delay: 31.035 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 39.62 Mbit/s
95th percentile per-packet one-way delay: 32.016 ms
Loss rate: 0.29%
```

Run 4: Report of FillP — Data Link

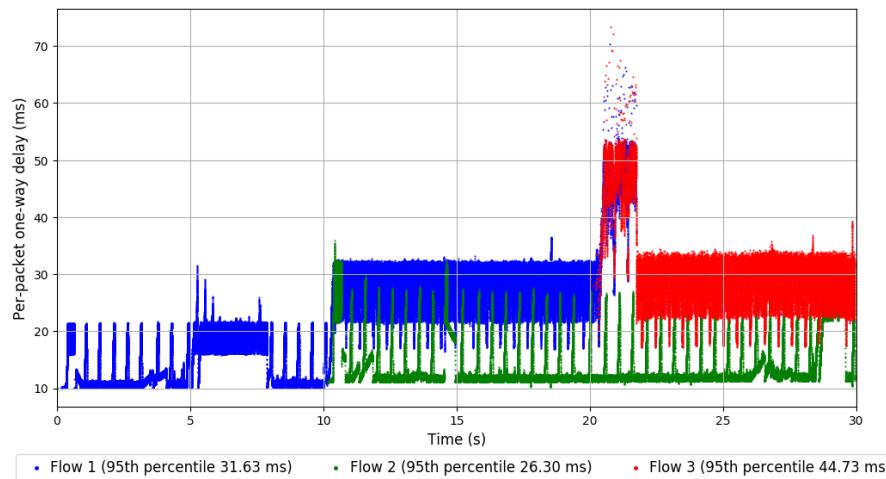
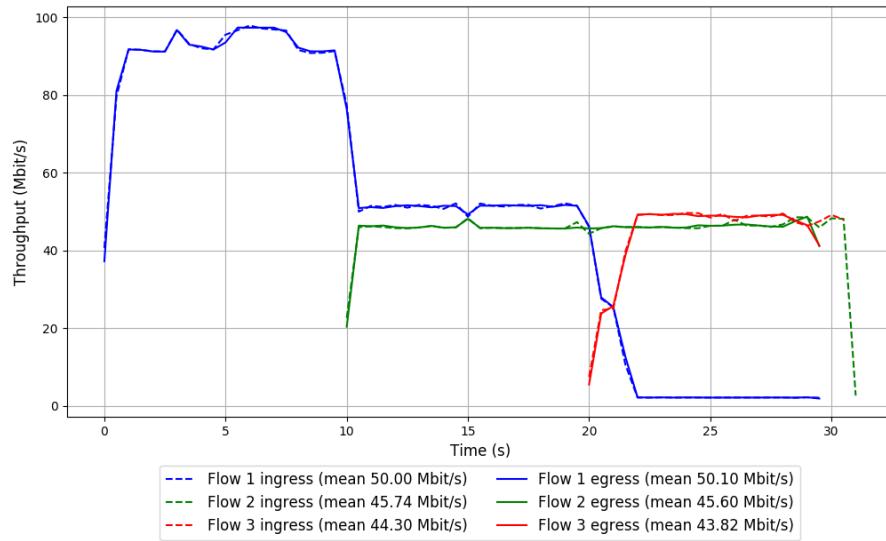


Run 5: Statistics of FillP

```
Start at: 2018-04-17 14:29:43
End at: 2018-04-17 14:30:13
Local clock offset: -2.178 ms
Remote clock offset: -4.508 ms

# Below is generated by plot.py at 2018-04-17 20:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 32.038 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 50.10 Mbit/s
95th percentile per-packet one-way delay: 31.630 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.60 Mbit/s
95th percentile per-packet one-way delay: 26.300 ms
Loss rate: 5.53%
-- Flow 3:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 44.735 ms
Loss rate: 10.87%
```

Run 5: Report of FillP — Data Link

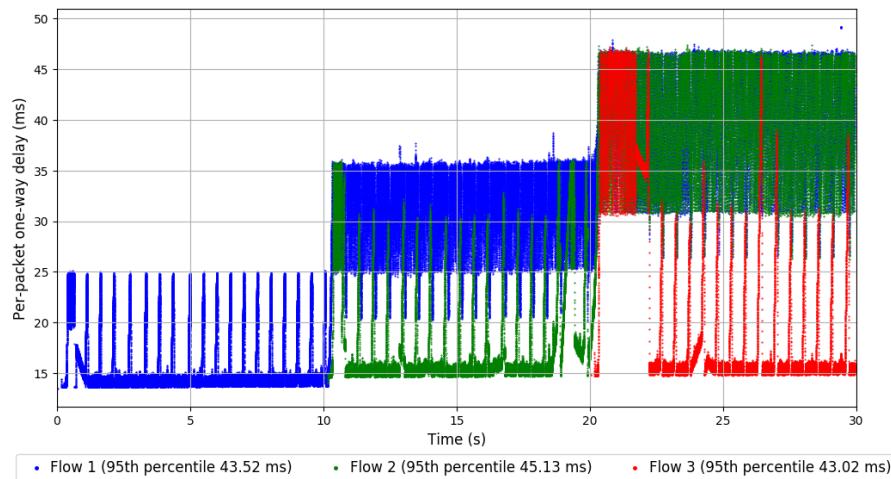
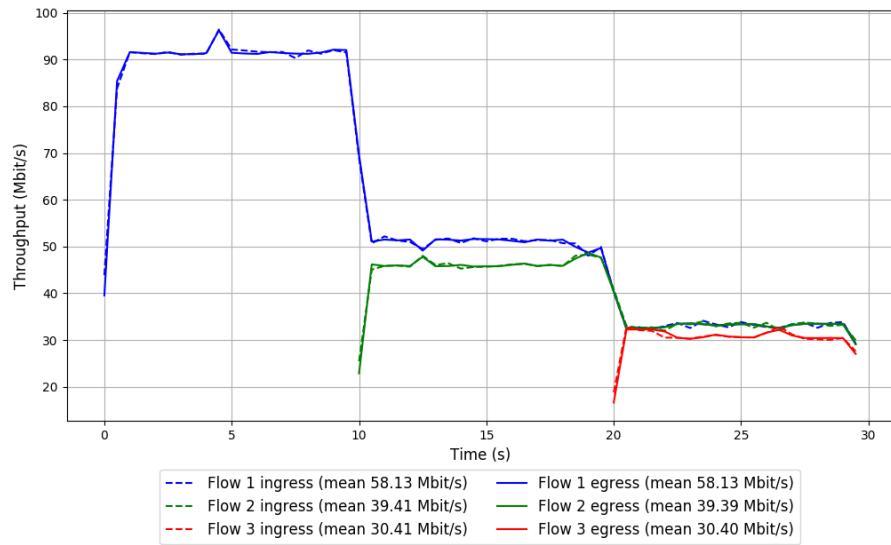


Run 6: Statistics of FillP

```
Start at: 2018-04-17 14:51:02
End at: 2018-04-17 14:51:32
Local clock offset: -12.426 ms
Remote clock offset: -11.666 ms

# Below is generated by plot.py at 2018-04-17 20:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.42 Mbit/s
95th percentile per-packet one-way delay: 44.239 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 58.13 Mbit/s
95th percentile per-packet one-way delay: 43.524 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 45.128 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 43.017 ms
Loss rate: 0.26%
```

Run 6: Report of FillP — Data Link

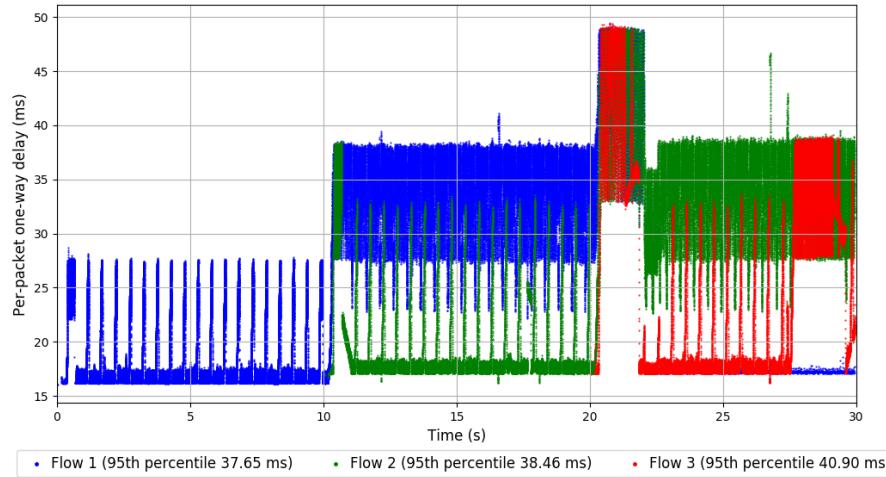
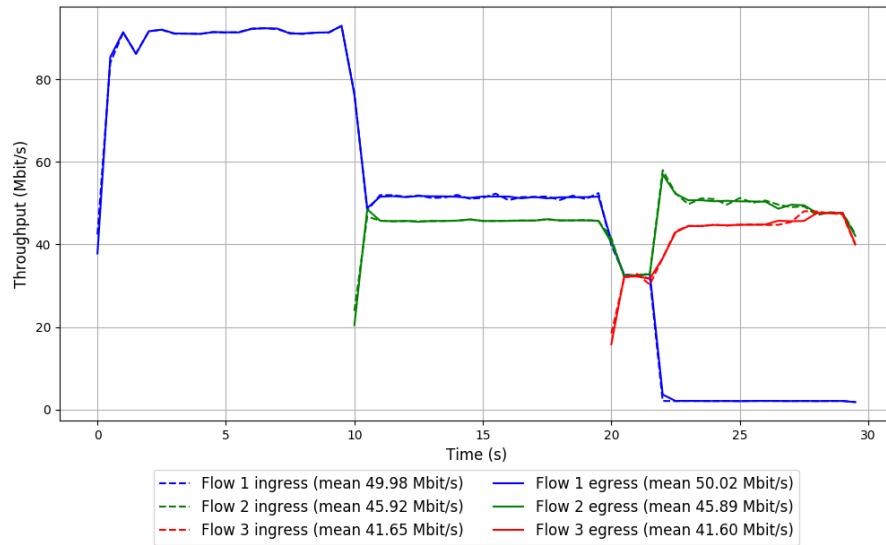


Run 7: Statistics of FillP

```
Start at: 2018-04-17 15:13:15
End at: 2018-04-17 15:13:45
Local clock offset: -9.953 ms
Remote clock offset: -5.643 ms

# Below is generated by plot.py at 2018-04-17 20:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 38.118 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 37.654 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.89 Mbit/s
95th percentile per-packet one-way delay: 38.460 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 41.60 Mbit/s
95th percentile per-packet one-way delay: 40.904 ms
Loss rate: 0.33%
```

Run 7: Report of FillP — Data Link

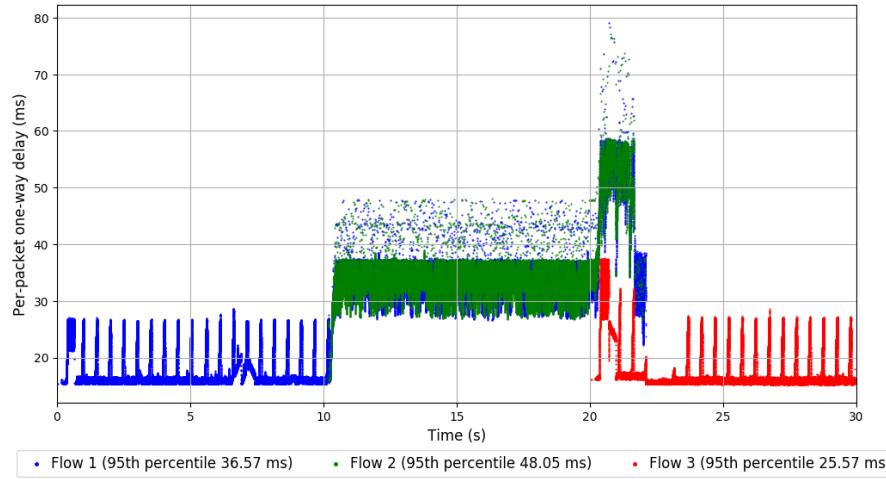
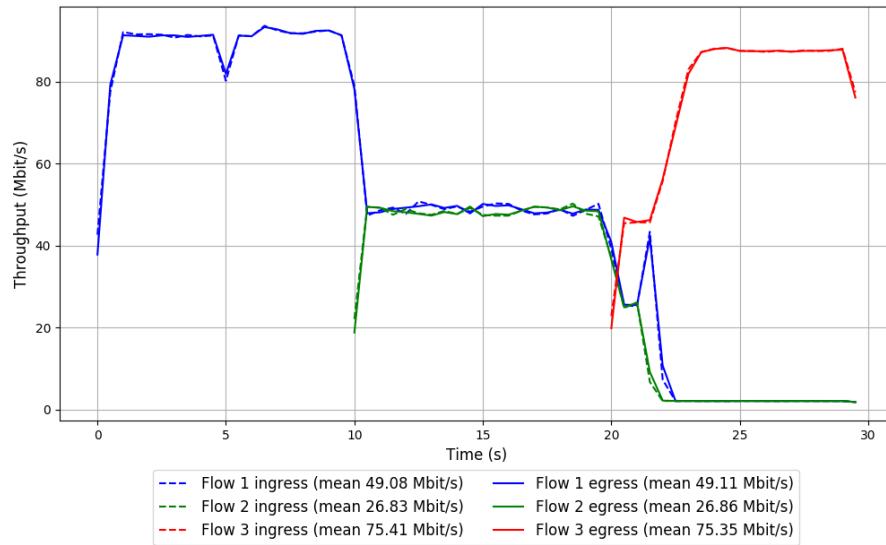


Run 8: Statistics of FillP

```
Start at: 2018-04-17 15:35:07
End at: 2018-04-17 15:35:37
Local clock offset: -10.666 ms
Remote clock offset: -11.12 ms

# Below is generated by plot.py at 2018-04-17 20:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.90 Mbit/s
95th percentile per-packet one-way delay: 36.673 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 36.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 48.051 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 75.35 Mbit/s
95th percentile per-packet one-way delay: 25.566 ms
Loss rate: 0.29%
```

Run 8: Report of FillP — Data Link

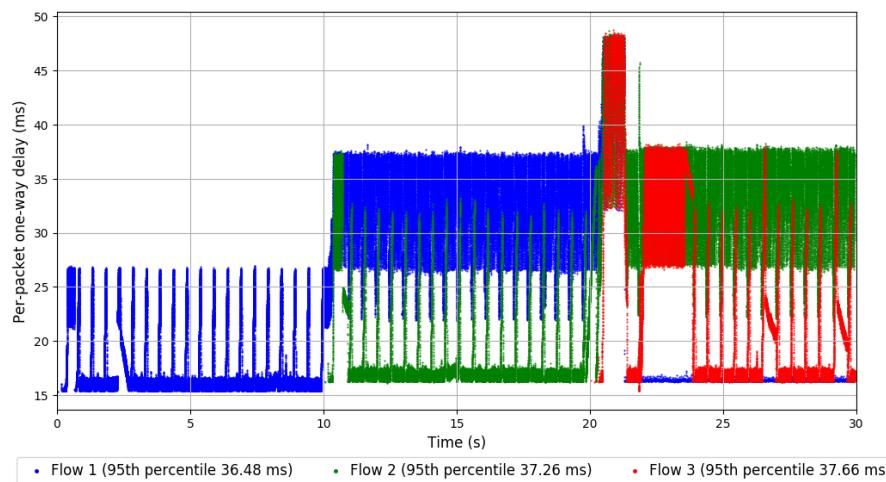
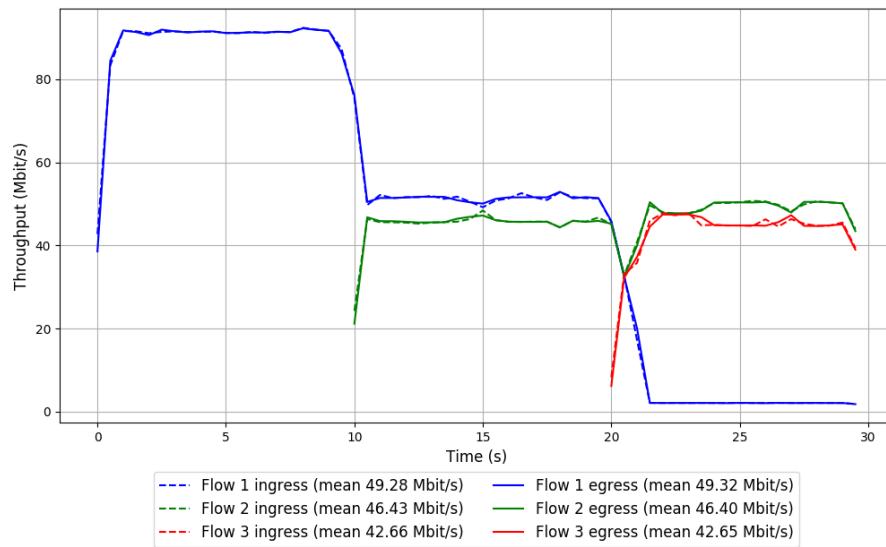


Run 9: Statistics of FillP

```
Start at: 2018-04-17 15:56:35
End at: 2018-04-17 15:57:05
Local clock offset: -12.196 ms
Remote clock offset: -15.787 ms

# Below is generated by plot.py at 2018-04-17 20:22:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 36.908 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 49.32 Mbit/s
95th percentile per-packet one-way delay: 36.478 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.40 Mbit/s
95th percentile per-packet one-way delay: 37.258 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 37.655 ms
Loss rate: 0.28%
```

Run 9: Report of FillP — Data Link

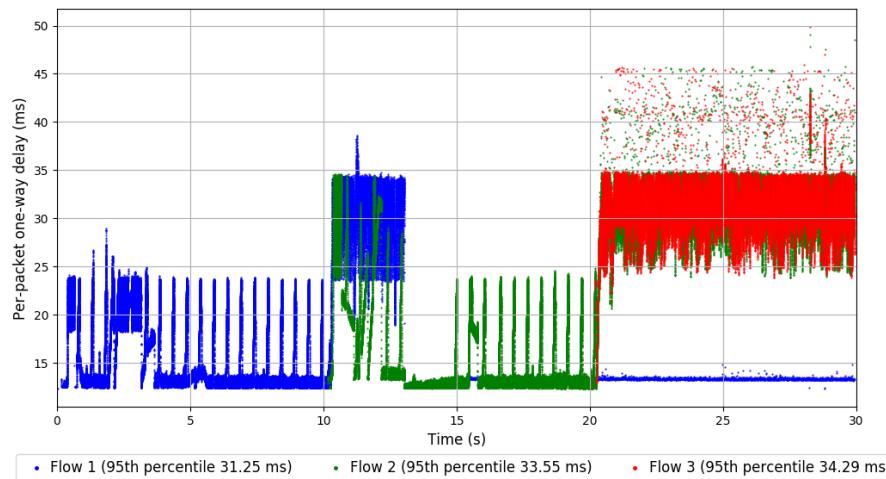
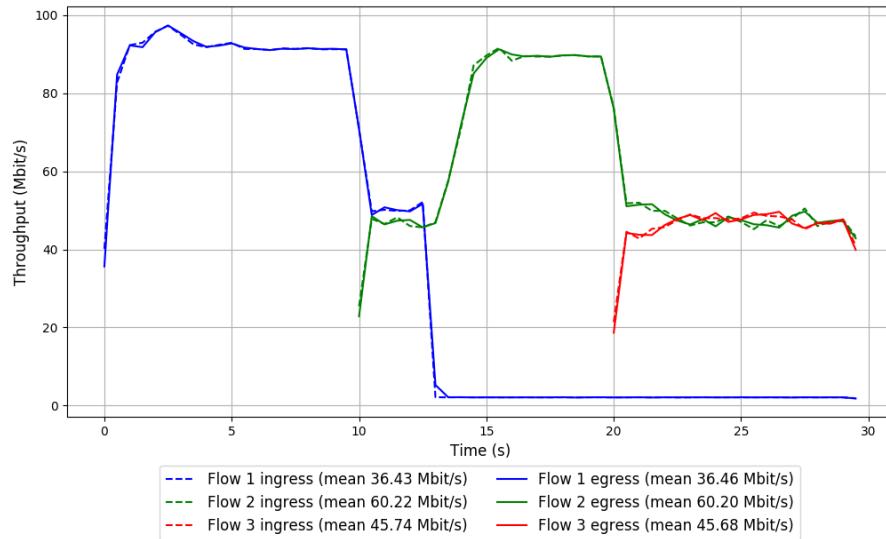


Run 10: Statistics of FillP

```
Start at: 2018-04-17 16:18:35
End at: 2018-04-17 16:19:05
Local clock offset: -12.748 ms
Remote clock offset: -10.033 ms

# Below is generated by plot.py at 2018-04-17 20:22:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 33.527 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 36.46 Mbit/s
95th percentile per-packet one-way delay: 31.250 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 60.20 Mbit/s
95th percentile per-packet one-way delay: 33.549 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 34.289 ms
Loss rate: 0.49%
```

Run 10: Report of FillP — Data Link

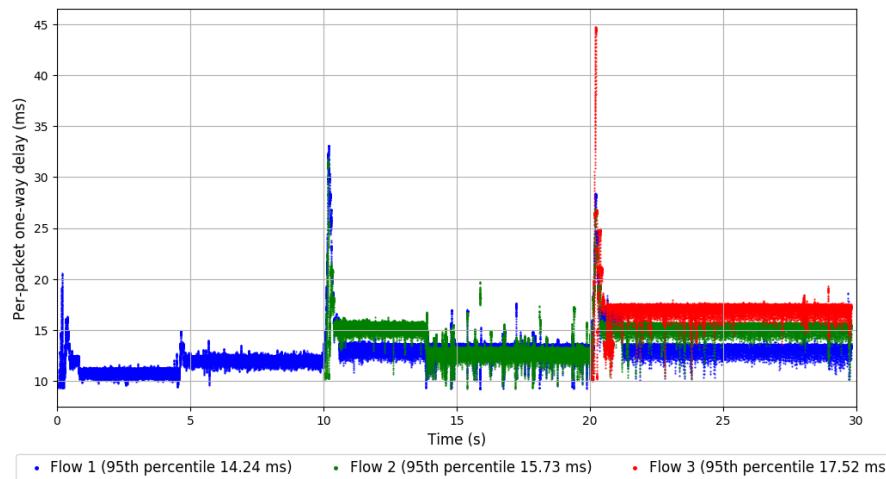
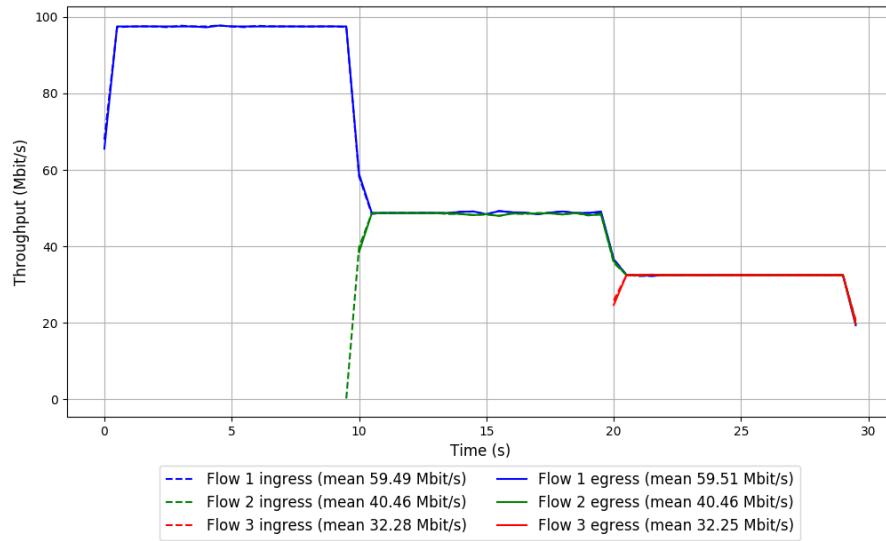


Run 1: Statistics of Indigo-1-32

```
Start at: 2018-04-17 13:13:28
End at: 2018-04-17 13:13:58
Local clock offset: -3.927 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-04-17 20:22:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 17.319 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 14.242 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 15.734 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 17.523 ms
Loss rate: 0.32%
```

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

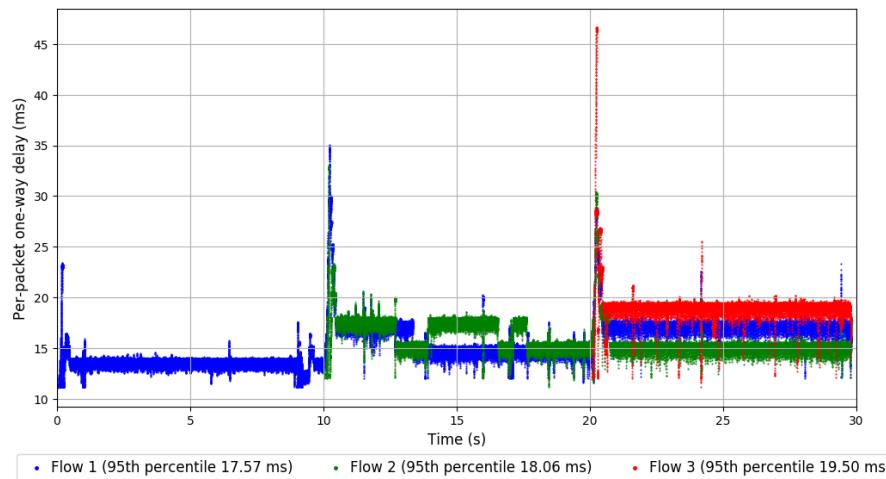
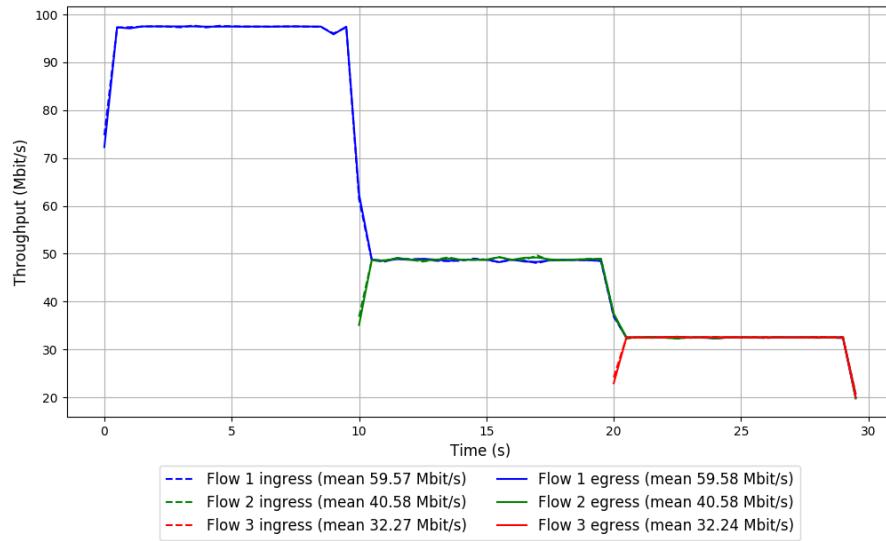


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-04-17 13:33:52
End at: 2018-04-17 13:34:22
Local clock offset: -3.931 ms
Remote clock offset: -2.549 ms

# Below is generated by plot.py at 2018-04-17 20:22:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 19.269 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.58 Mbit/s
95th percentile per-packet one-way delay: 17.570 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 40.58 Mbit/s
95th percentile per-packet one-way delay: 18.063 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 19.496 ms
Loss rate: 0.32%
```

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

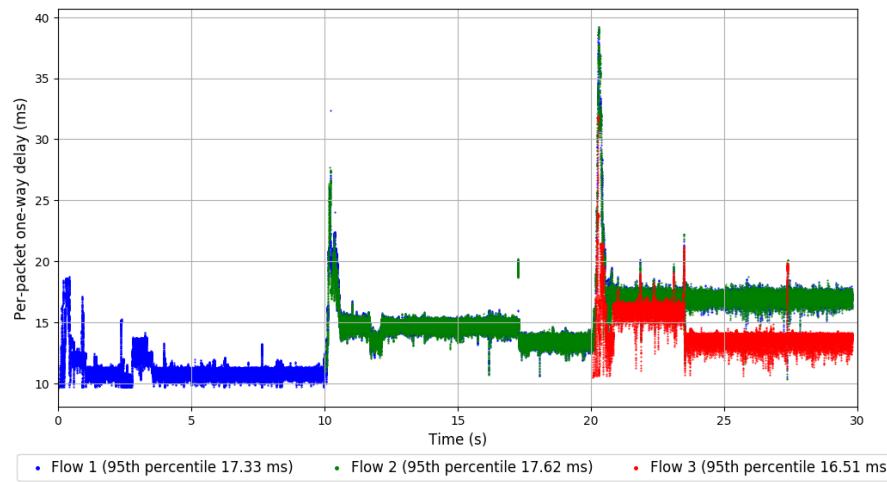
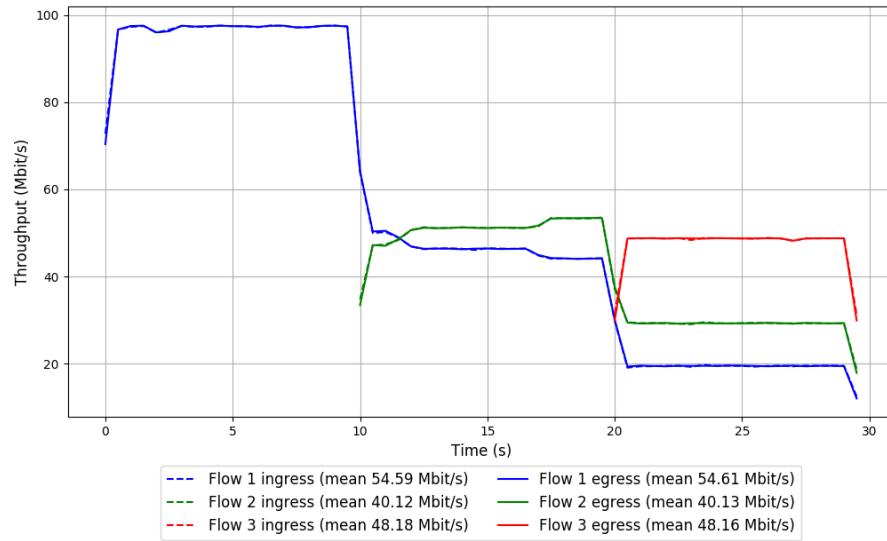


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-04-17 13:54:15
End at: 2018-04-17 13:54:45
Local clock offset: -4.915 ms
Remote clock offset: -0.406 ms

# Below is generated by plot.py at 2018-04-17 20:22:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.98 Mbit/s
95th percentile per-packet one-way delay: 17.414 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 54.61 Mbit/s
95th percentile per-packet one-way delay: 17.333 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 17.617 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 48.16 Mbit/s
95th percentile per-packet one-way delay: 16.513 ms
Loss rate: 0.28%
```

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

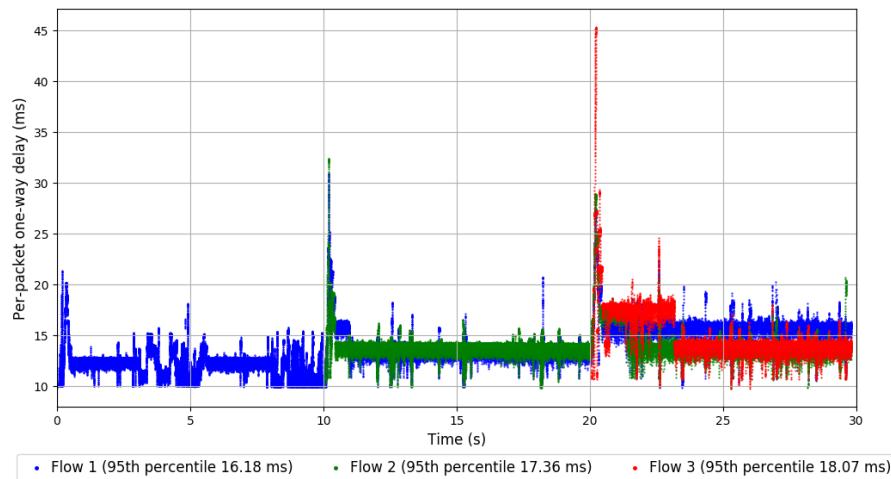
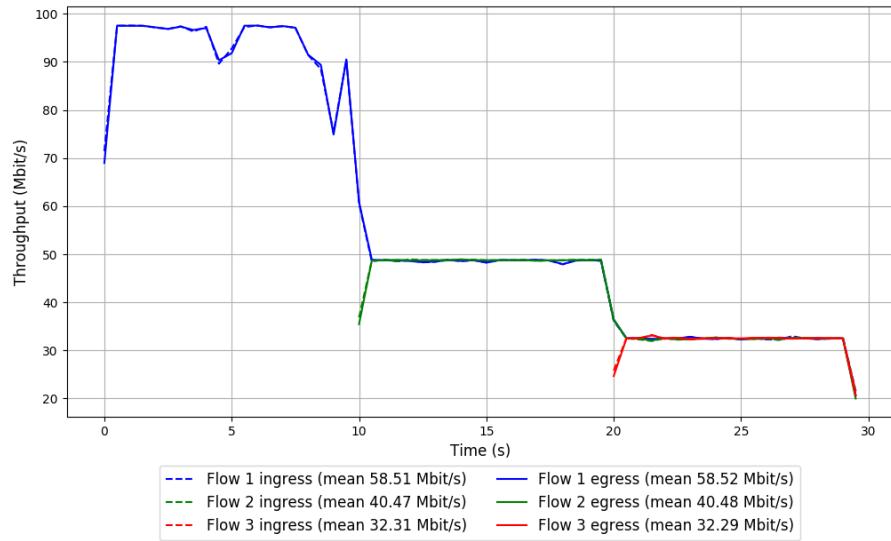


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-04-17 14:14:53
End at: 2018-04-17 14:15:23
Local clock offset: -3.028 ms
Remote clock offset: 0.245 ms

# Below is generated by plot.py at 2018-04-17 20:22:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 17.475 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 58.52 Mbit/s
95th percentile per-packet one-way delay: 16.183 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 17.361 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 18.069 ms
Loss rate: 0.28%
```

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

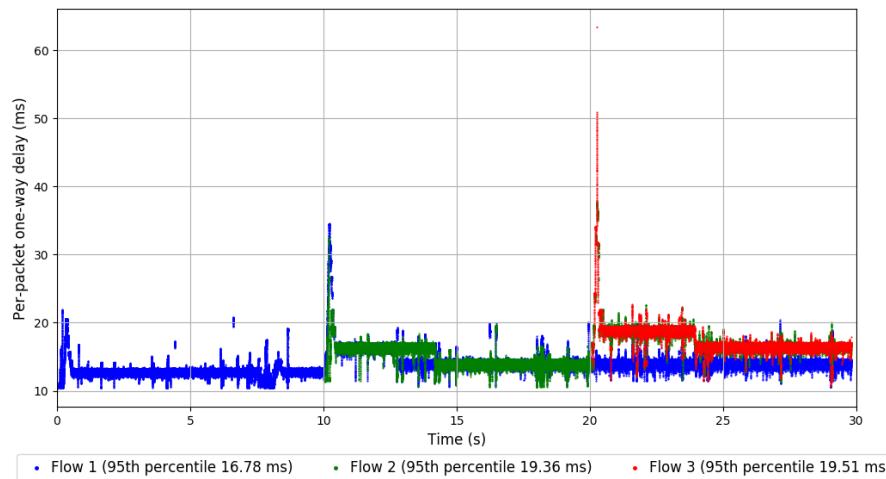
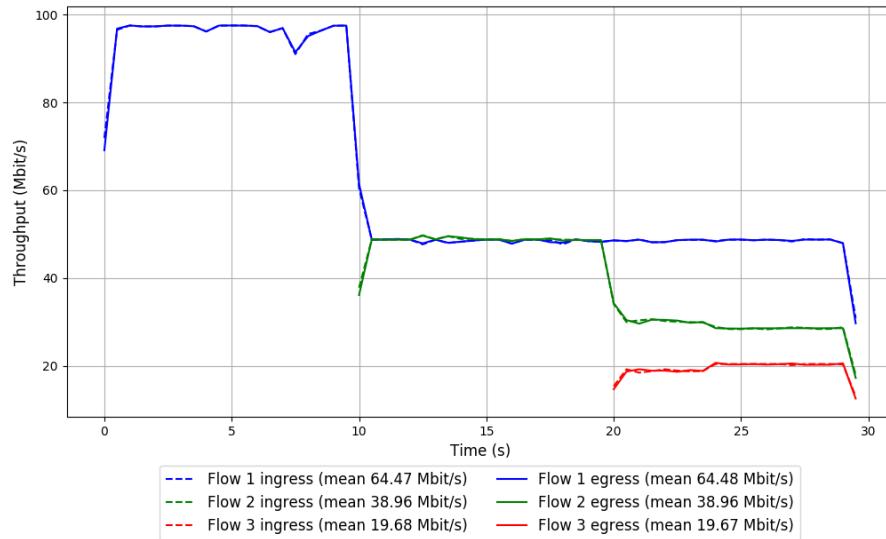


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-04-17 14:35:43
End at: 2018-04-17 14:36:13
Local clock offset: -6.831 ms
Remote clock offset: -6.706 ms

# Below is generated by plot.py at 2018-04-17 20:23:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 19.152 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 64.48 Mbit/s
95th percentile per-packet one-way delay: 16.783 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.96 Mbit/s
95th percentile per-packet one-way delay: 19.356 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 19.509 ms
Loss rate: 0.31%
```

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

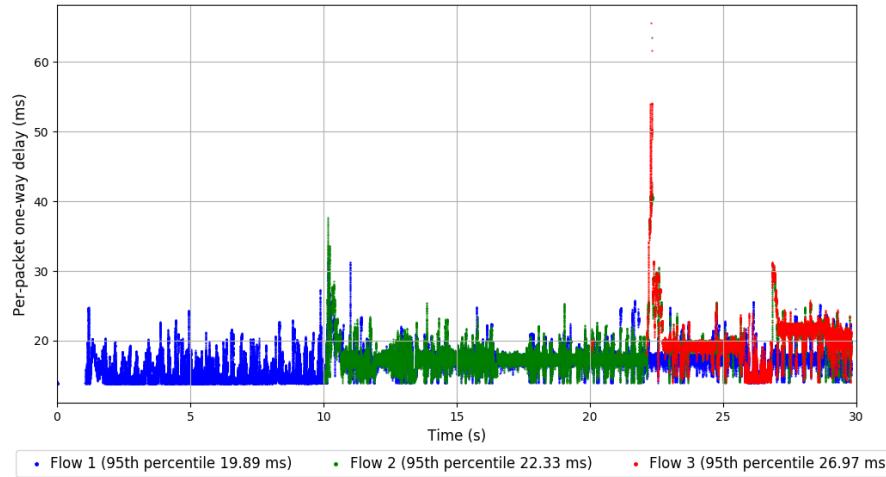
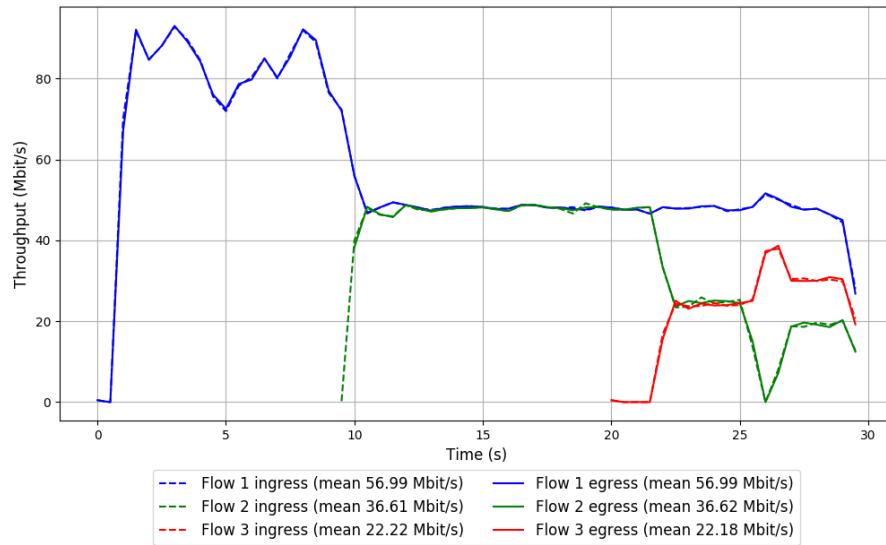


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-04-17 14:57:38
End at: 2018-04-17 14:58:08
Local clock offset: -12.976 ms
Remote clock offset: -8.662 ms

# Below is generated by plot.py at 2018-04-17 20:23:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.59 Mbit/s
95th percentile per-packet one-way delay: 21.944 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 19.886 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 22.327 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 22.18 Mbit/s
95th percentile per-packet one-way delay: 26.974 ms
Loss rate: 0.43%
```

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

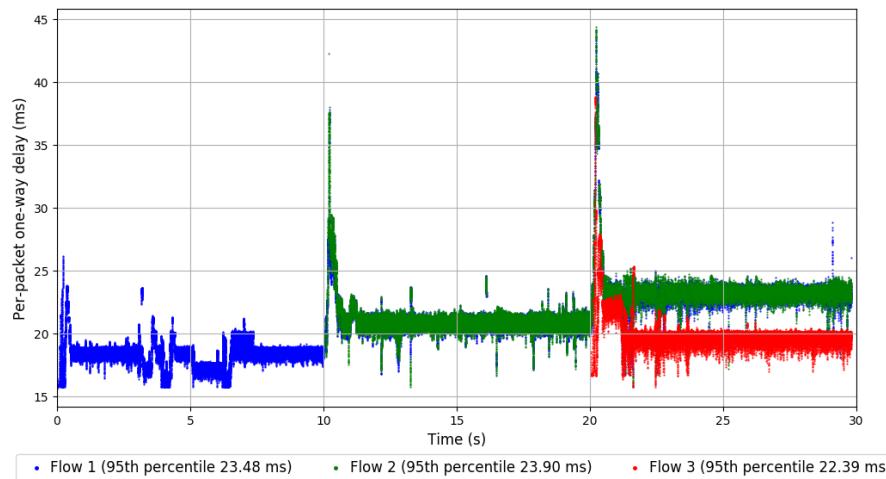
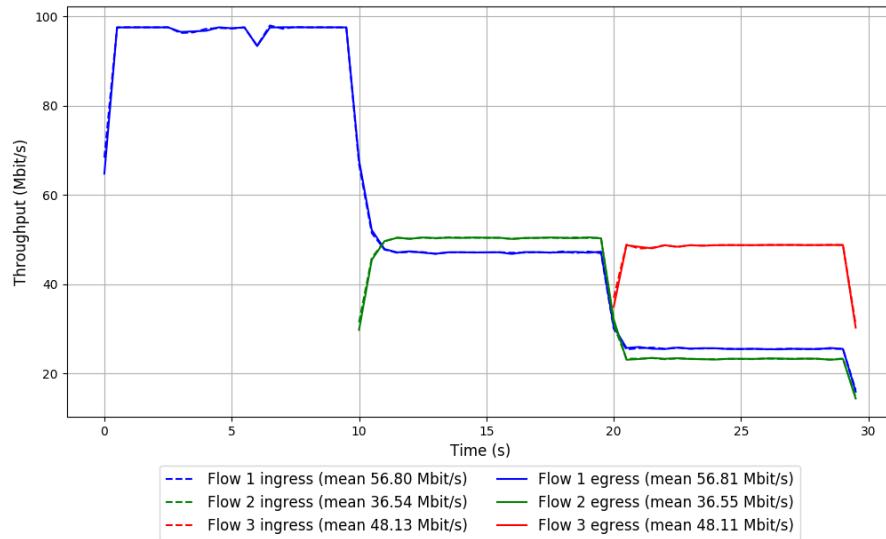


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-04-17 15:19:27
End at: 2018-04-17 15:19:57
Local clock offset: -10.094 ms
Remote clock offset: -4.911 ms

# Below is generated by plot.py at 2018-04-17 20:23:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 23.582 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 56.81 Mbit/s
95th percentile per-packet one-way delay: 23.481 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.55 Mbit/s
95th percentile per-packet one-way delay: 23.900 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 22.391 ms
Loss rate: 0.28%
```

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

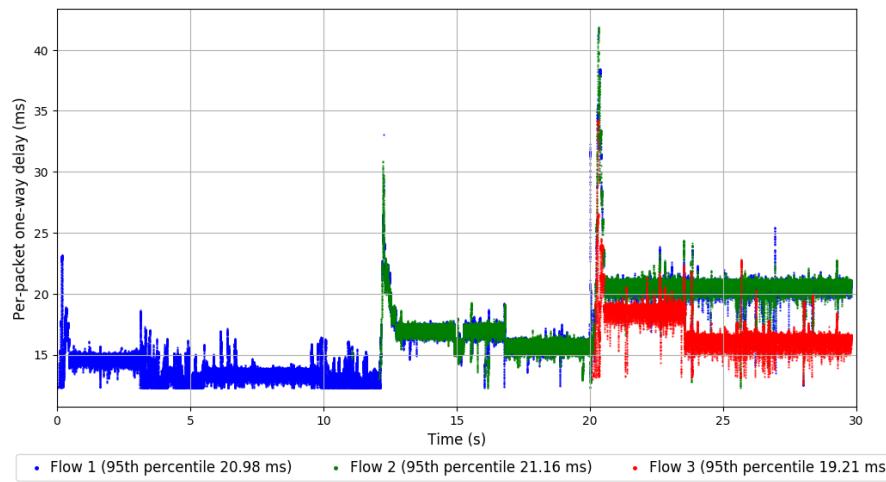
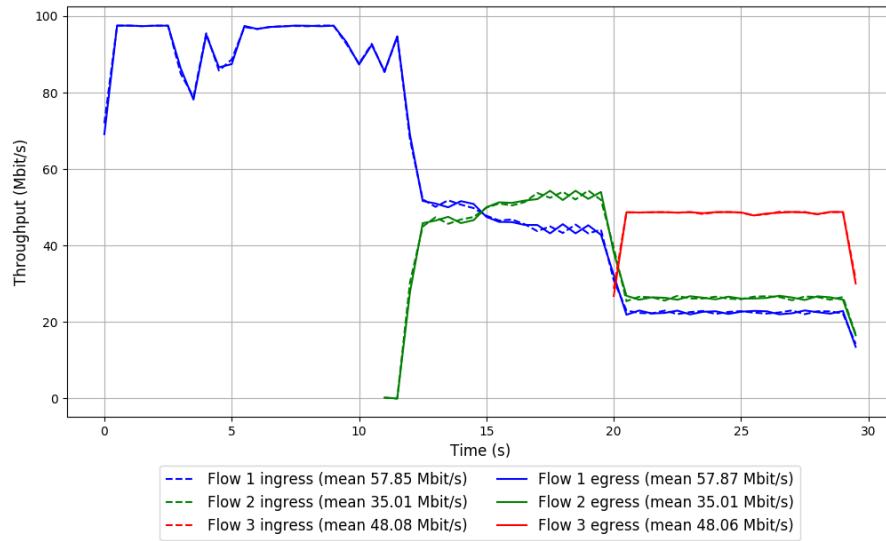


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-04-17 15:41:15
End at: 2018-04-17 15:41:45
Local clock offset: -14.153 ms
Remote clock offset: -12.807 ms

# Below is generated by plot.py at 2018-04-17 20:23:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 21.041 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 57.87 Mbit/s
95th percentile per-packet one-way delay: 20.979 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 35.01 Mbit/s
95th percentile per-packet one-way delay: 21.158 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 48.06 Mbit/s
95th percentile per-packet one-way delay: 19.206 ms
Loss rate: 0.29%
```

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

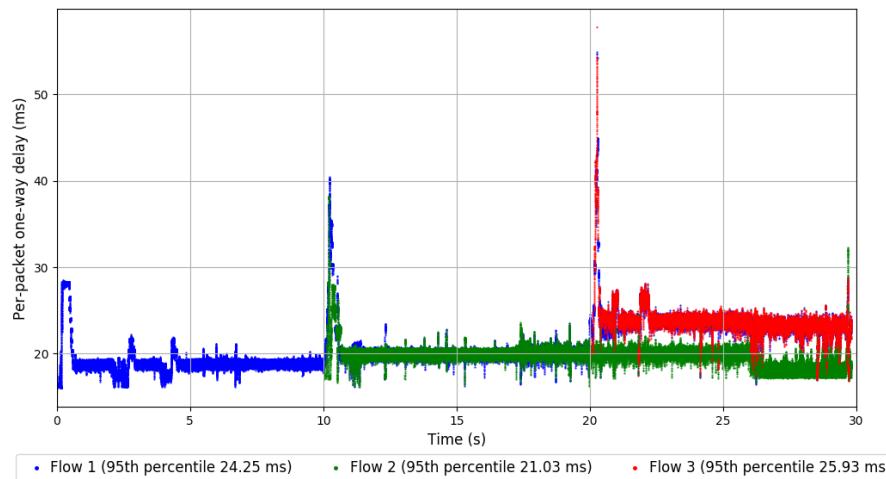
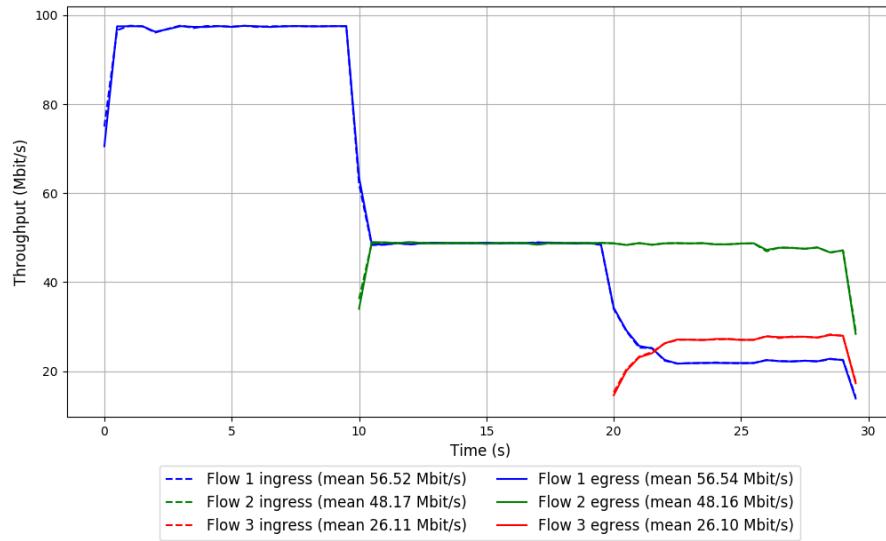


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-04-17 16:02:37
End at: 2018-04-17 16:03:07
Local clock offset: -12.096 ms
Remote clock offset: -13.064 ms

# Below is generated by plot.py at 2018-04-17 20:23:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 24.242 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 56.54 Mbit/s
95th percentile per-packet one-way delay: 24.253 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 48.16 Mbit/s
95th percentile per-packet one-way delay: 21.029 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 26.10 Mbit/s
95th percentile per-packet one-way delay: 25.934 ms
Loss rate: 0.32%
```

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

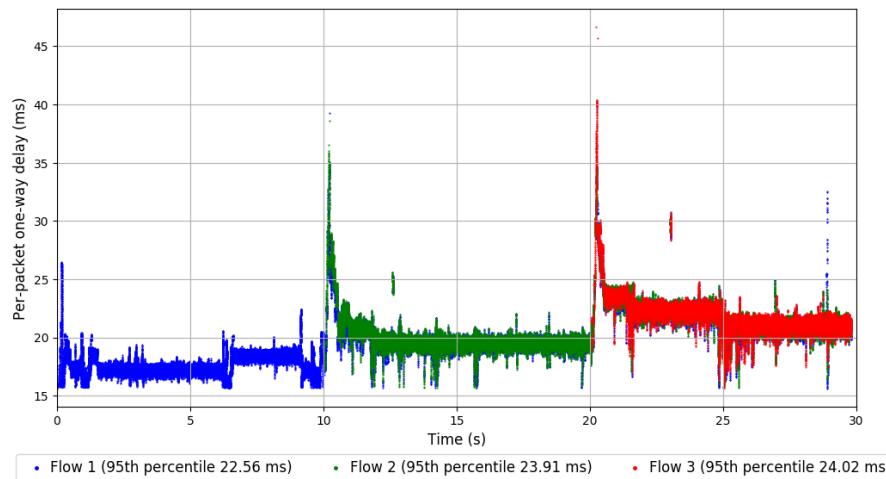
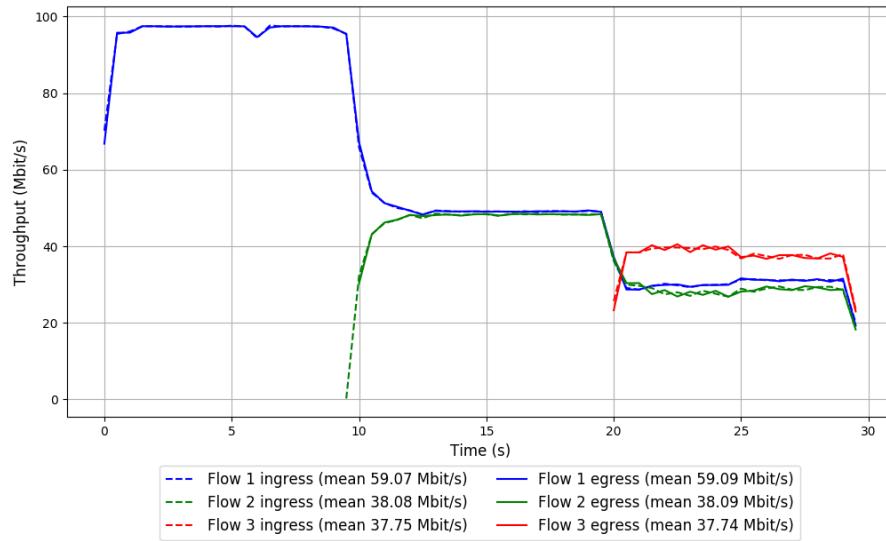


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-04-17 16:24:49
End at: 2018-04-17 16:25:19
Local clock offset: -7.449 ms
Remote clock offset: -9.614 ms

# Below is generated by plot.py at 2018-04-17 20:23:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.75 Mbit/s
95th percentile per-packet one-way delay: 23.423 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.09 Mbit/s
95th percentile per-packet one-way delay: 22.557 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 38.09 Mbit/s
95th percentile per-packet one-way delay: 23.913 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 24.025 ms
Loss rate: 0.28%
```

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

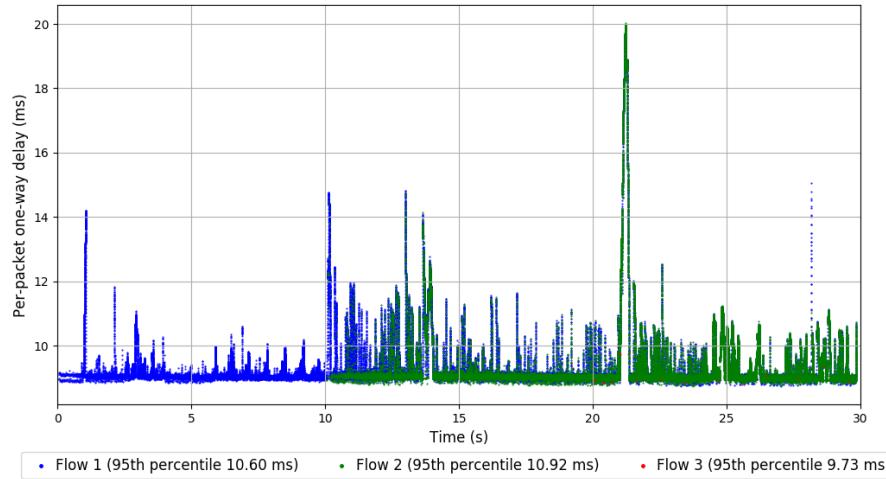
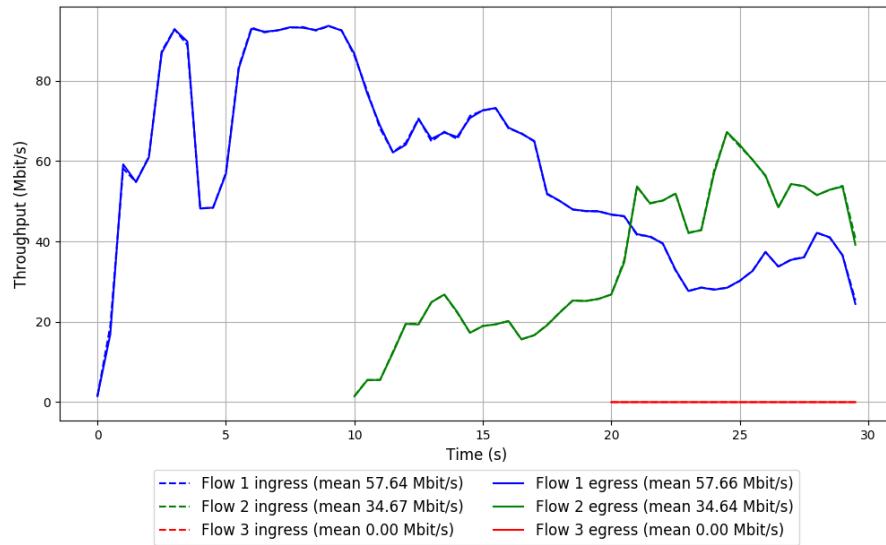


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-04-17 13:14:41
End at: 2018-04-17 13:15:11
Local clock offset: -3.965 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-04-17 20:23:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 10.709 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 57.66 Mbit/s
95th percentile per-packet one-way delay: 10.598 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 34.64 Mbit/s
95th percentile per-packet one-way delay: 10.917 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 9.728 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

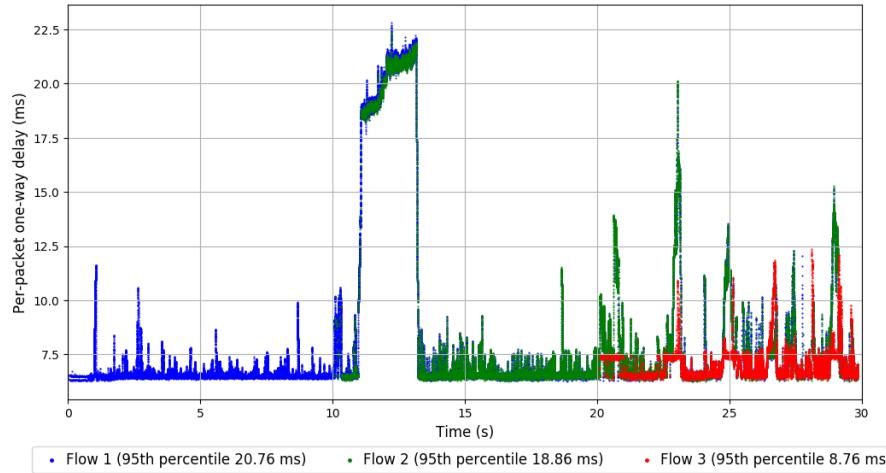
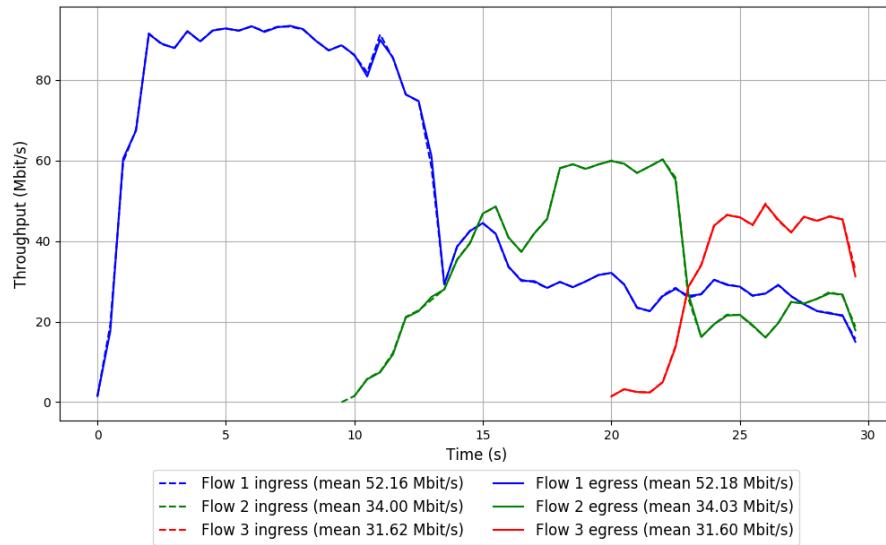


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-04-17 13:35:05
End at: 2018-04-17 13:35:35
Local clock offset: -7.458 ms
Remote clock offset: -1.435 ms

# Below is generated by plot.py at 2018-04-17 20:24:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.21 Mbit/s
95th percentile per-packet one-way delay: 19.758 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 52.18 Mbit/s
95th percentile per-packet one-way delay: 20.762 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 34.03 Mbit/s
95th percentile per-packet one-way delay: 18.857 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 8.757 ms
Loss rate: 0.35%
```

Run 2: Report of PCC-Vivace — Data Link

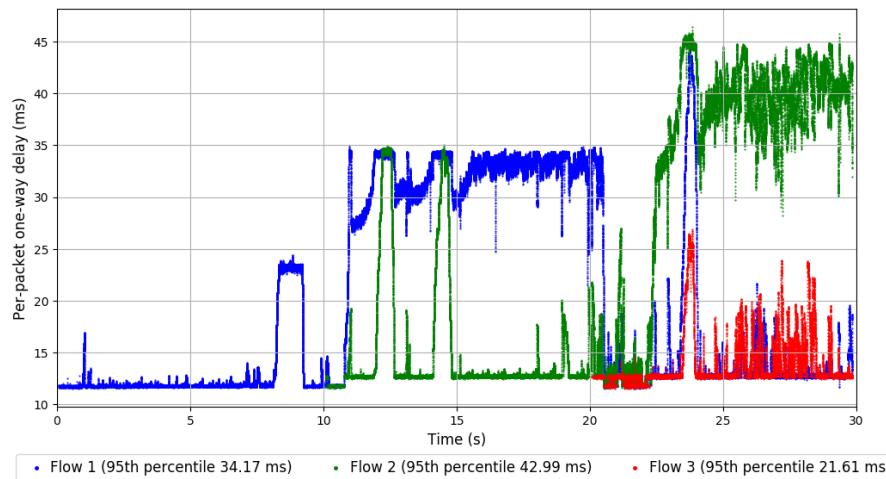
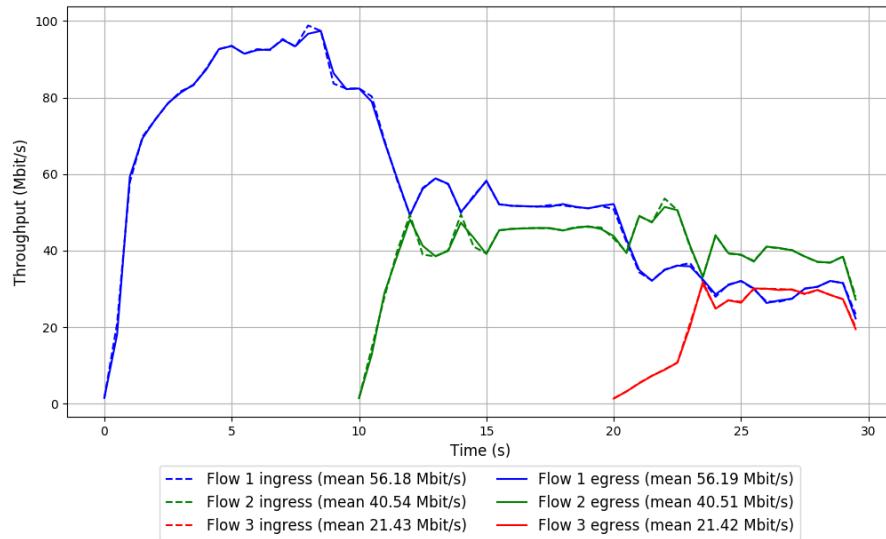


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-04-17 13:55:29
End at: 2018-04-17 13:55:59
Local clock offset: -3.827 ms
Remote clock offset: -1.319 ms

# Below is generated by plot.py at 2018-04-17 20:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 39.895 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 56.19 Mbit/s
95th percentile per-packet one-way delay: 34.167 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.51 Mbit/s
95th percentile per-packet one-way delay: 42.989 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 21.42 Mbit/s
95th percentile per-packet one-way delay: 21.613 ms
Loss rate: 0.29%
```

Run 3: Report of PCC-Vivace — Data Link

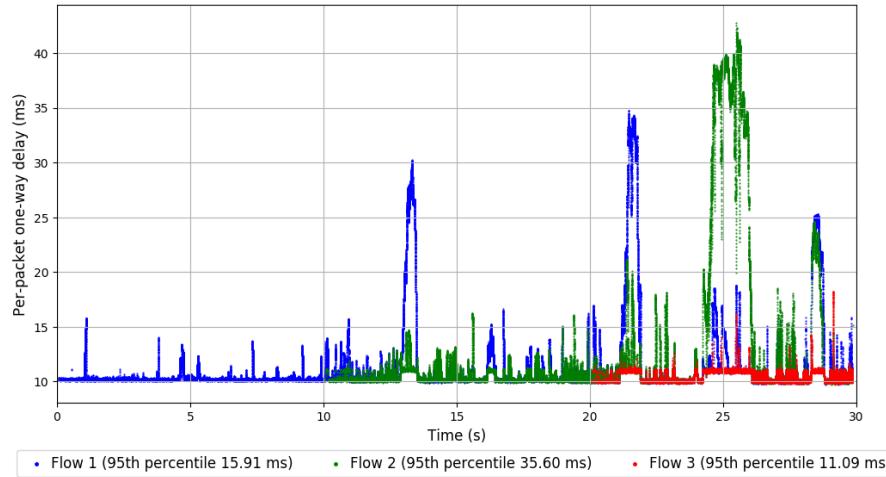
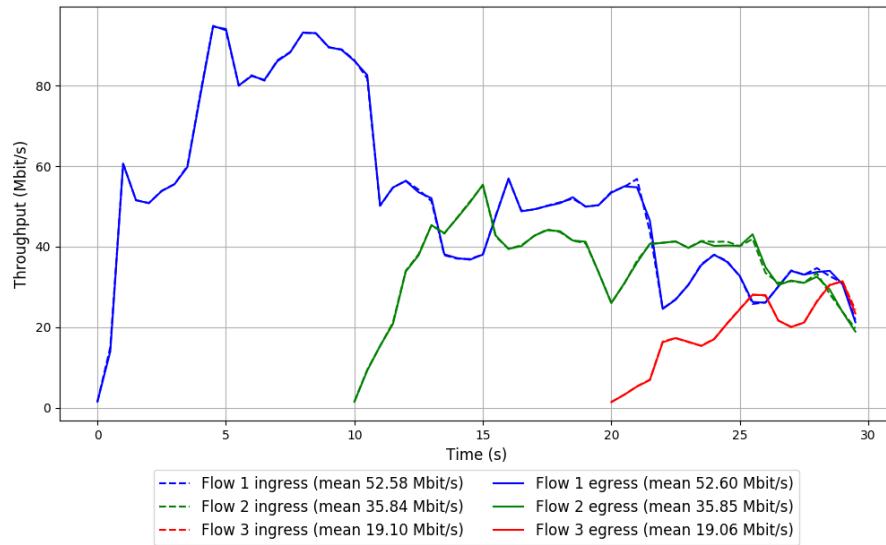


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-04-17 14:16:09
End at: 2018-04-17 14:16:39
Local clock offset: -3.438 ms
Remote clock offset: -1.203 ms

# Below is generated by plot.py at 2018-04-17 20:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.69 Mbit/s
95th percentile per-packet one-way delay: 21.004 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 15.906 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 35.597 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 11.086 ms
Loss rate: 0.41%
```

Run 4: Report of PCC-Vivace — Data Link

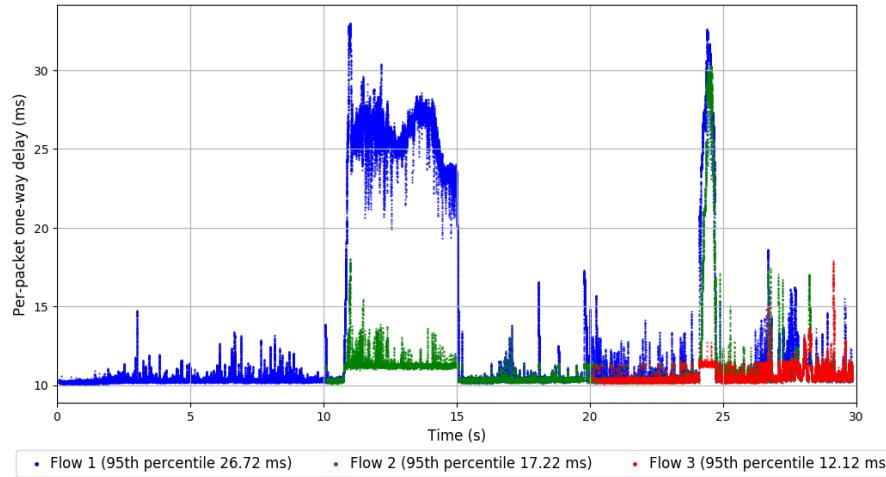
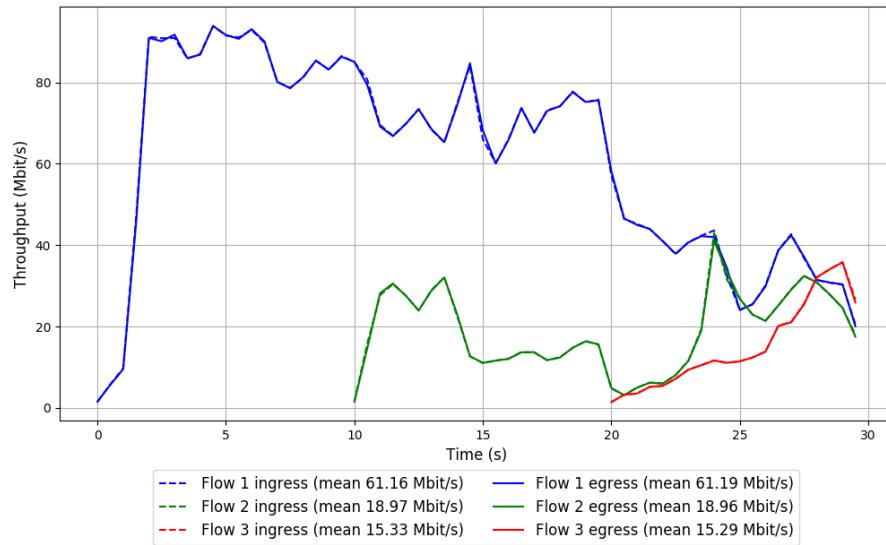


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-04-17 14:37:01
End at: 2018-04-17 14:37:31
Local clock offset: -6.917 ms
Remote clock offset: -6.179 ms

# Below is generated by plot.py at 2018-04-17 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.82 Mbit/s
95th percentile per-packet one-way delay: 26.495 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 26.716 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 17.219 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 12.119 ms
Loss rate: 0.52%
```

Run 5: Report of PCC-Vivace — Data Link

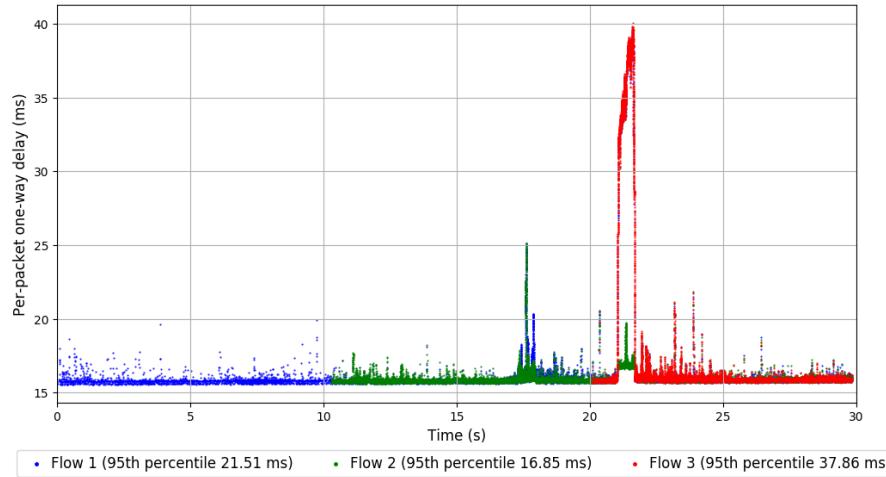
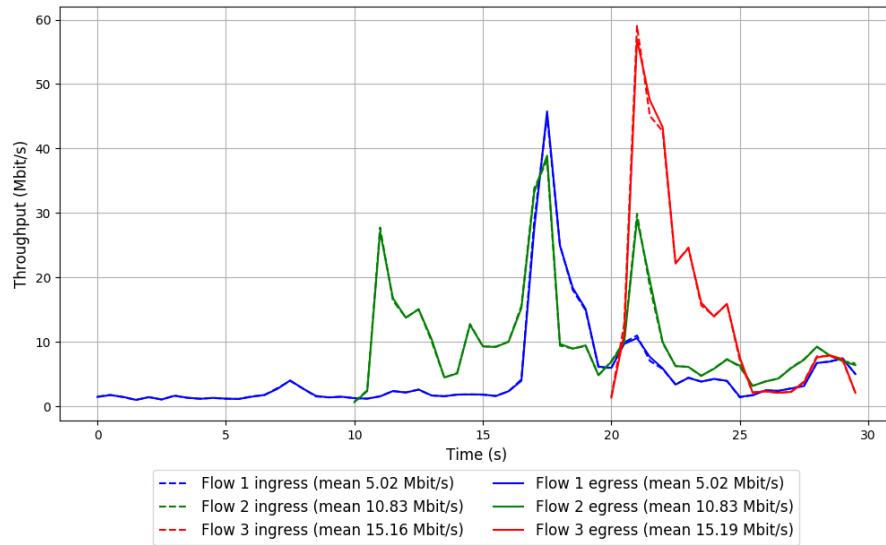


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-04-17 14:59:04
End at: 2018-04-17 14:59:34
Local clock offset: -10.707 ms
Remote clock offset: -7.834 ms

# Below is generated by plot.py at 2018-04-17 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.13 Mbit/s
95th percentile per-packet one-way delay: 33.984 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 21.514 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 16.853 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 15.19 Mbit/s
95th percentile per-packet one-way delay: 37.857 ms
Loss rate: 0.04%
```

Run 6: Report of PCC-Vivace — Data Link

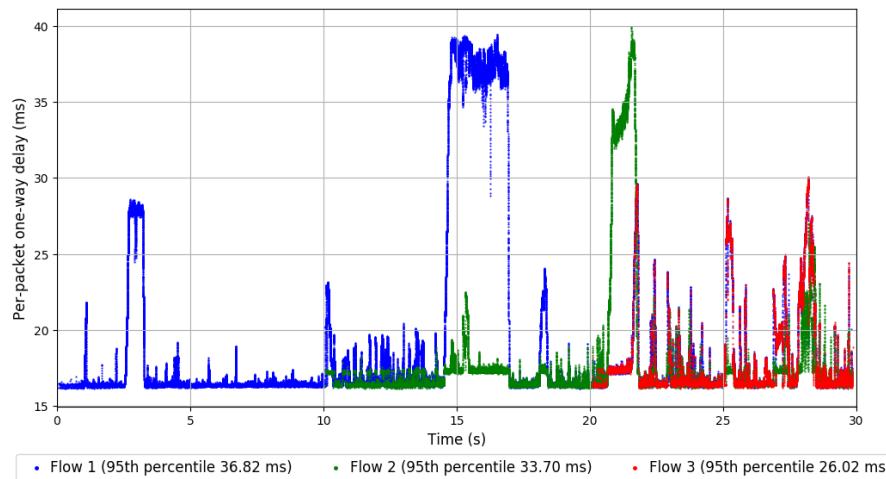
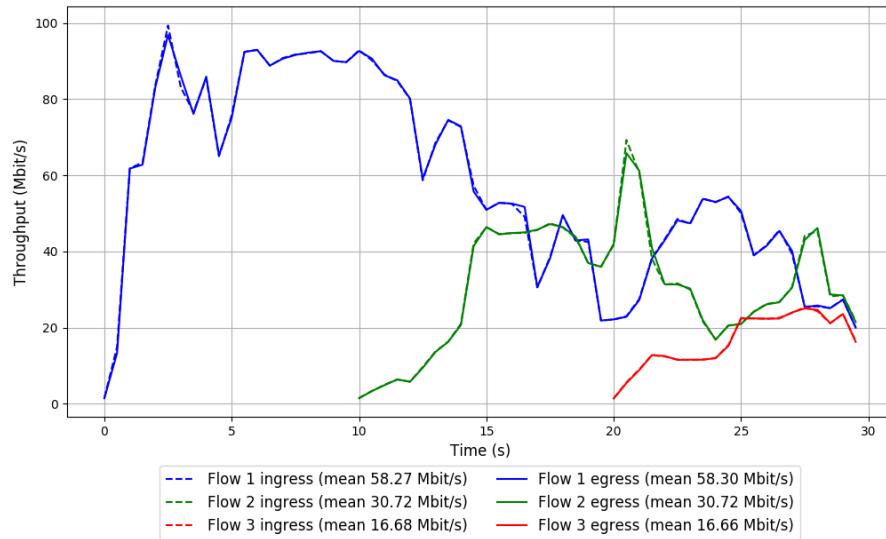


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-04-17 15:20:46
End at: 2018-04-17 15:21:16
Local clock offset: -10.015 ms
Remote clock offset: -5.381 ms

# Below is generated by plot.py at 2018-04-17 20:25:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.20 Mbit/s
95th percentile per-packet one-way delay: 35.201 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 58.30 Mbit/s
95th percentile per-packet one-way delay: 36.823 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 30.72 Mbit/s
95th percentile per-packet one-way delay: 33.705 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 26.017 ms
Loss rate: 0.32%
```

Run 7: Report of PCC-Vivace — Data Link

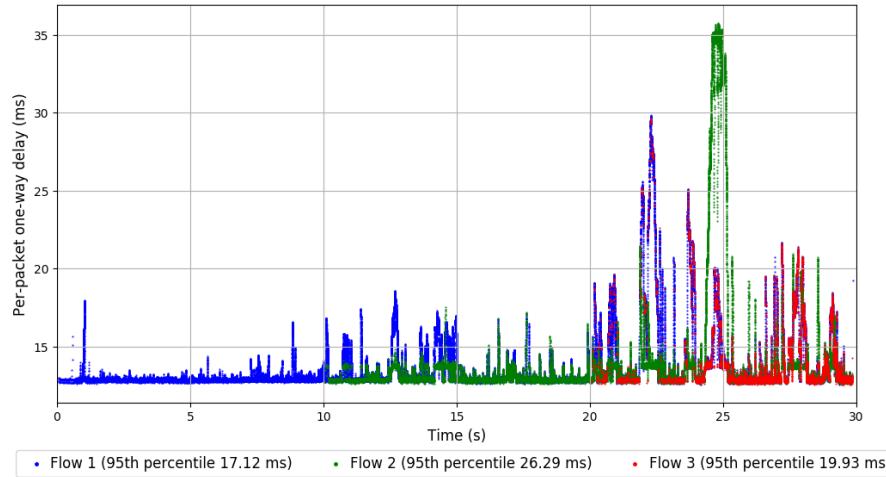
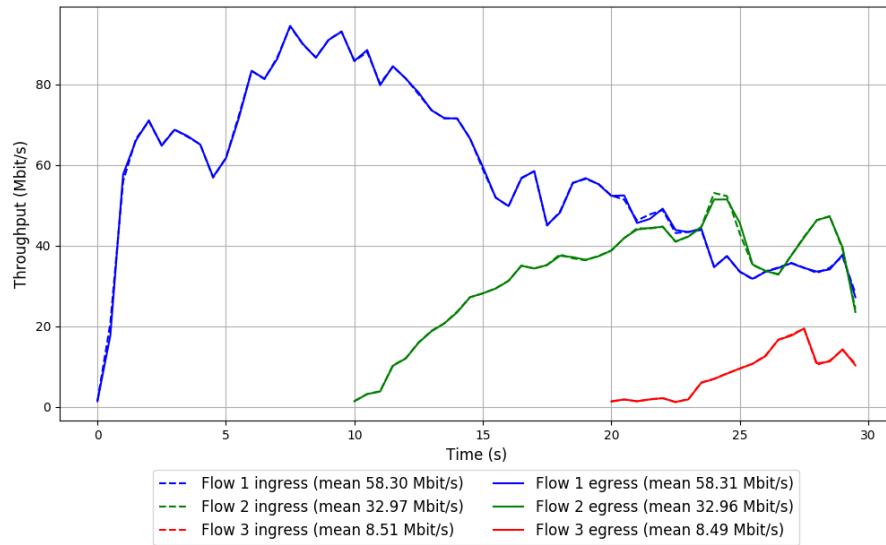


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-04-17 15:42:37
End at: 2018-04-17 15:43:07
Local clock offset: -14.344 ms
Remote clock offset: -13.75 ms

# Below is generated by plot.py at 2018-04-17 20:25:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.00 Mbit/s
95th percentile per-packet one-way delay: 17.923 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 17.116 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 32.96 Mbit/s
95th percentile per-packet one-way delay: 26.289 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 19.925 ms
Loss rate: 0.40%
```

Run 8: Report of PCC-Vivace — Data Link

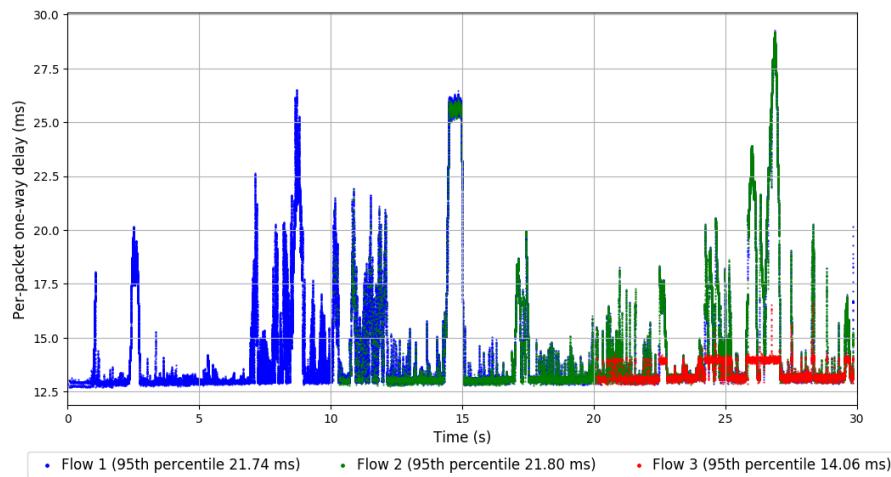
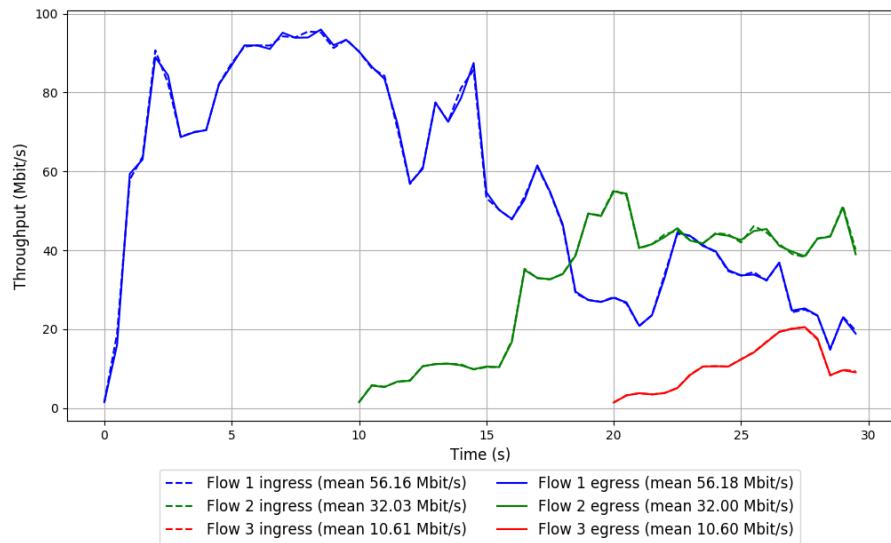


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-04-17 16:03:54
End at: 2018-04-17 16:04:24
Local clock offset: -15.096 ms
Remote clock offset: -12.295 ms

# Below is generated by plot.py at 2018-04-17 20:25:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.94 Mbit/s
95th percentile per-packet one-way delay: 21.535 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 56.18 Mbit/s
95th percentile per-packet one-way delay: 21.741 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 32.00 Mbit/s
95th percentile per-packet one-way delay: 21.801 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 14.065 ms
Loss rate: 0.31%
```

Run 9: Report of PCC-Vivace — Data Link

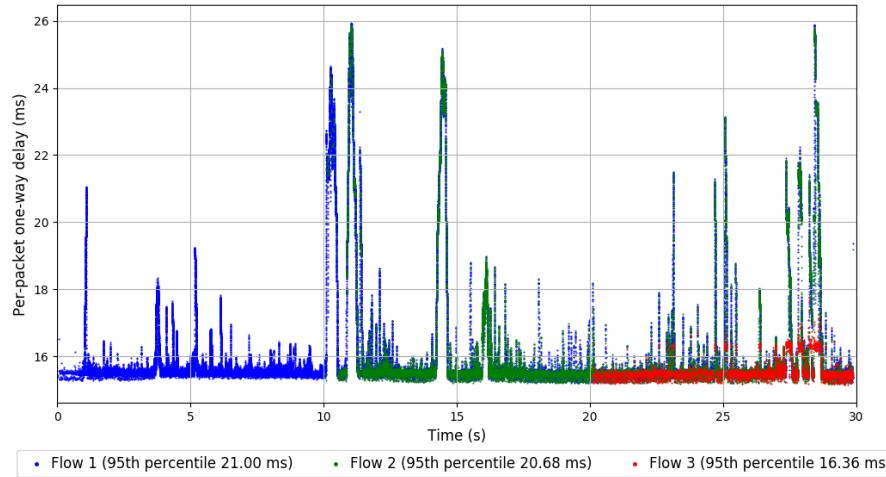
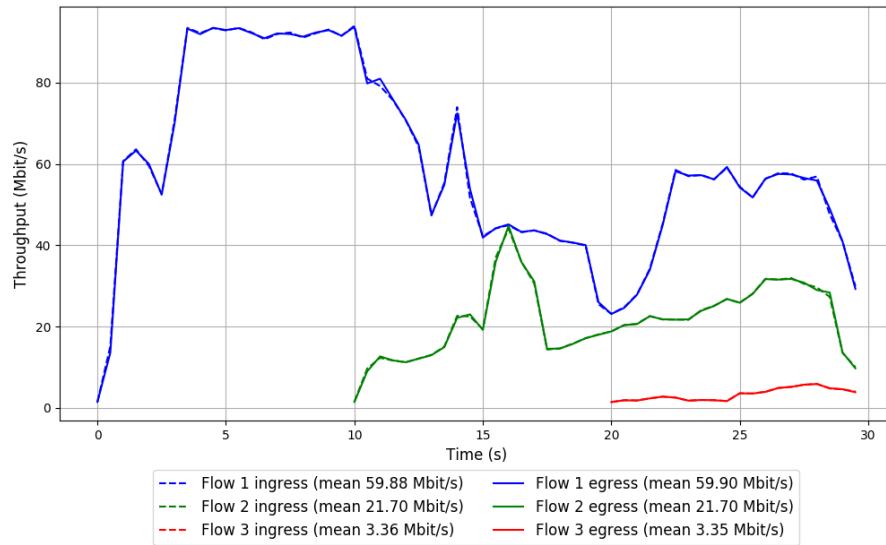


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-04-17 16:26:14
End at: 2018-04-17 16:26:44
Local clock offset: -8.366 ms
Remote clock offset: -10.554 ms

# Below is generated by plot.py at 2018-04-17 20:25:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.43 Mbit/s
95th percentile per-packet one-way delay: 20.864 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 59.90 Mbit/s
95th percentile per-packet one-way delay: 21.003 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 21.70 Mbit/s
95th percentile per-packet one-way delay: 20.685 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 16.360 ms
Loss rate: 0.46%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 13:09:58

End at: 2018-04-17 13:10:28

Local clock offset: -3.68 ms

Remote clock offset: 1.248 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 13:30:23

End at: 2018-04-17 13:30:53

Local clock offset: -5.205 ms

Remote clock offset: -2.34 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 13:50:40
End at: 2018-04-17 13:51:10
Local clock offset: -4.243 ms
Remote clock offset: -0.947 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 14:11:21
End at: 2018-04-17 14:11:51
Local clock offset: -3.391 ms
Remote clock offset: -0.855 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 14:32:13

End at: 2018-04-17 14:32:43

Local clock offset: -4.13 ms

Remote clock offset: -4.705 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 14:53:33
End at: 2018-04-17 14:54:03
Local clock offset: -10.875 ms
Remote clock offset: -9.882 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 15:15:41
End at: 2018-04-17 15:16:11
Local clock offset: -11.135 ms
Remote clock offset: -5.202 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 15:37:37
End at: 2018-04-17 15:38:07
Local clock offset: -10.501 ms
Remote clock offset: -12.525 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 15:59:00
End at: 2018-04-17 15:59:30
Local clock offset: -11.937 ms
Remote clock offset: -14.431 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 16:21:08

End at: 2018-04-17 16:21:38

Local clock offset: -11.685 ms

Remote clock offset: -9.908 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing