

Pantheon Report

Generated at 2018-05-22 18:47:38 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

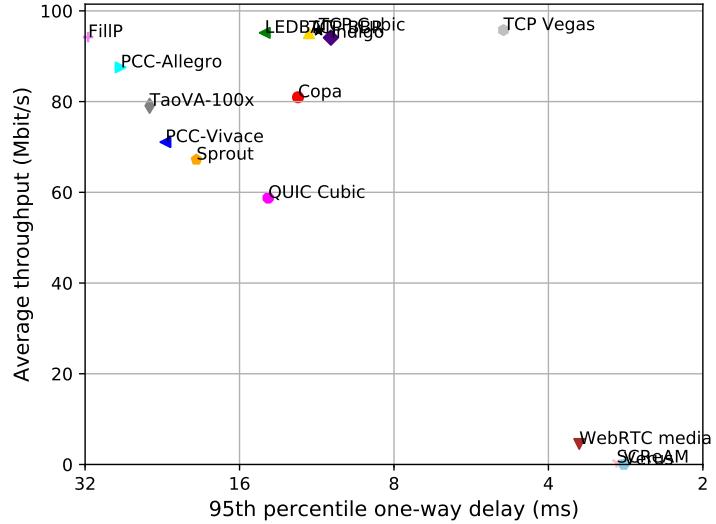
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

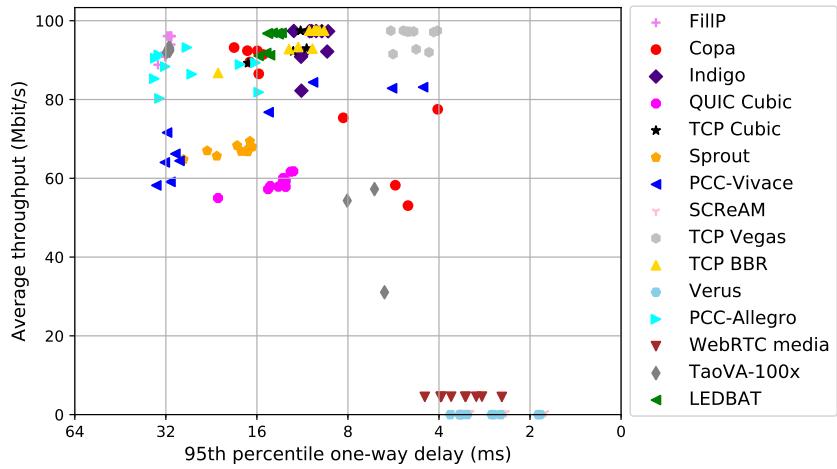
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



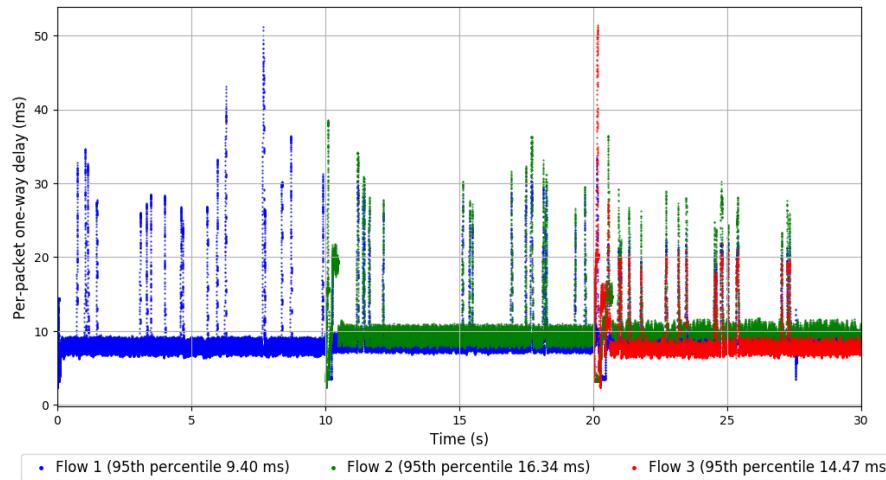
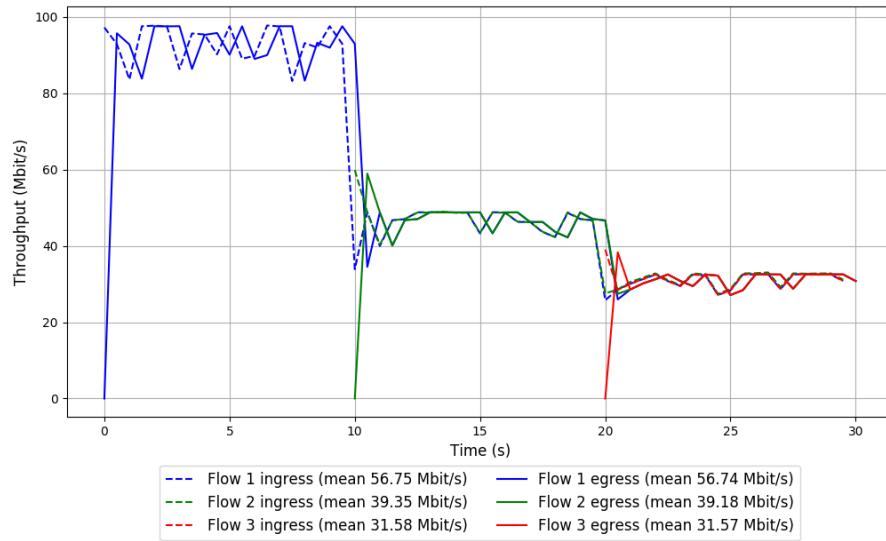
| scheme | # runs | mean avg tput (Mbit/s) | | | mean 95th-%ile delay (ms) | | | mean loss rate (%) | | |
|--------------|--------|------------------------|--------|--------|---------------------------|--------|--------|--------------------|--------|--------|
| | | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 | flow 1 | flow 2 | flow 3 |
| TCP BBR | 10 | 57.82 | 39.92 | 32.14 | 10.71 | 12.97 | 13.25 | 0.16 | 0.37 | 0.60 |
| Copa | | 48.73 | 33.89 | 29.10 | 11.12 | 13.12 | 12.20 | 0.01 | 0.03 | 0.09 |
| TCP Cubic | | 58.53 | 39.90 | 31.86 | 11.79 | 11.15 | 11.73 | 0.08 | 0.15 | 0.24 |
| FillP | | 58.39 | 38.80 | 30.21 | 30.45 | 32.49 | 34.74 | 1.54 | 3.40 | 3.75 |
| Indigo | | 57.08 | 39.72 | 32.19 | 9.92 | 10.93 | 10.77 | 0.04 | 0.58 | 0.36 |
| LEDBAT | | 57.99 | 39.89 | 31.90 | 13.99 | 14.72 | 14.51 | 0.13 | 0.24 | 0.39 |
| PCC-Allegro | | 63.23 | 24.92 | 23.54 | 26.30 | 19.87 | 20.72 | 2.60 | 1.62 | 1.14 |
| PCC-Expr | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| QUIC Cubic | | 1.19 | 65.16 | 46.59 | 2.56 | 13.90 | 14.44 | 0.00 | 0.12 | 0.30 |
| SCReAM | | 0.22 | 0.22 | 0.22 | 2.94 | 2.94 | 3.05 | 0.00 | 0.00 | 0.21 |
| Sprout | | 35.39 | 32.95 | 30.07 | 17.37 | 19.66 | 22.87 | 0.03 | 0.07 | 0.17 |
| TaoVA-100x | | 48.28 | 32.22 | 28.09 | 23.15 | 24.56 | 24.23 | 0.23 | 0.49 | 1.18 |
| TCP Vegas | | 53.59 | 43.96 | 38.82 | 4.52 | 4.59 | 5.48 | 0.01 | 0.02 | 0.05 |
| Verus | | 0.00 | 0.00 | 0.00 | 3.00 | 2.62 | 2.46 | 0.00 | 0.00 | 0.00 |
| PCC-Vivace | | 39.46 | 35.63 | 23.97 | 17.81 | 28.01 | 21.81 | 0.19 | 0.73 | 0.36 |
| WebRTC media | | 2.37 | 1.50 | 0.67 | 3.40 | 3.50 | 3.88 | 0.01 | 0.06 | 0.18 |

Run 1: Statistics of TCP BBR

```
Start at: 2018-05-22 15:40:49
End at: 2018-05-22 15:41:19
Local clock offset: -6.105 ms
Remote clock offset: -2.236 ms

# Below is generated by plot.py at 2018-05-22 18:30:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.33 Mbit/s
95th percentile per-packet one-way delay: 11.684 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 9.400 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 16.343 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 14.469 ms
Loss rate: 0.10%
```

Run 1: Report of TCP BBR — Data Link

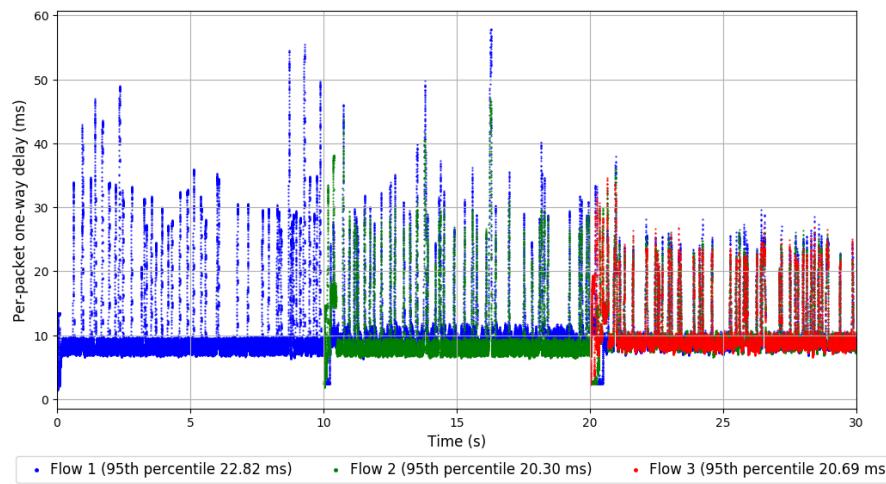
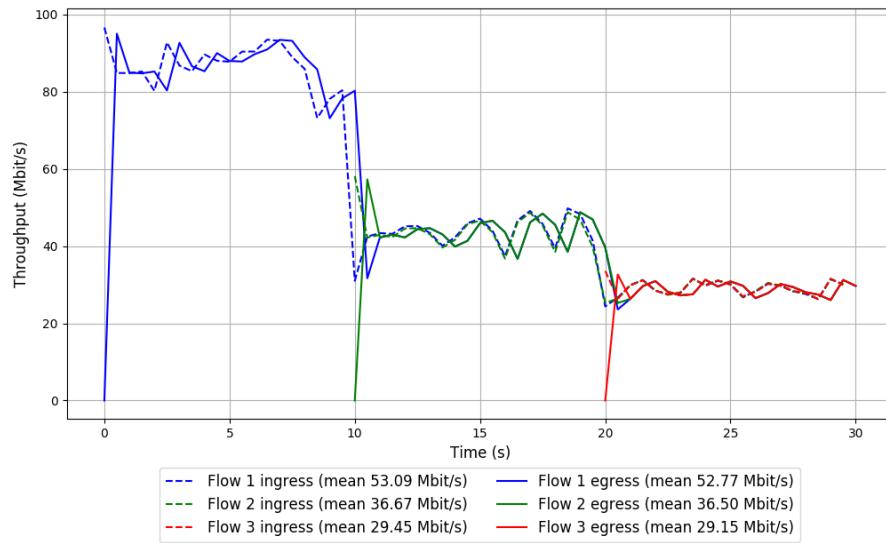


Run 2: Statistics of TCP BBR

```
Start at: 2018-05-22 15:58:33
End at: 2018-05-22 15:59:03
Local clock offset: -6.995 ms
Remote clock offset: -2.776 ms

# Below is generated by plot.py at 2018-05-22 18:30:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.76 Mbit/s
95th percentile per-packet one-way delay: 21.498 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 52.77 Mbit/s
95th percentile per-packet one-way delay: 22.823 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 36.50 Mbit/s
95th percentile per-packet one-way delay: 20.303 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 20.693 ms
Loss rate: 1.05%
```

Run 2: Report of TCP BBR — Data Link

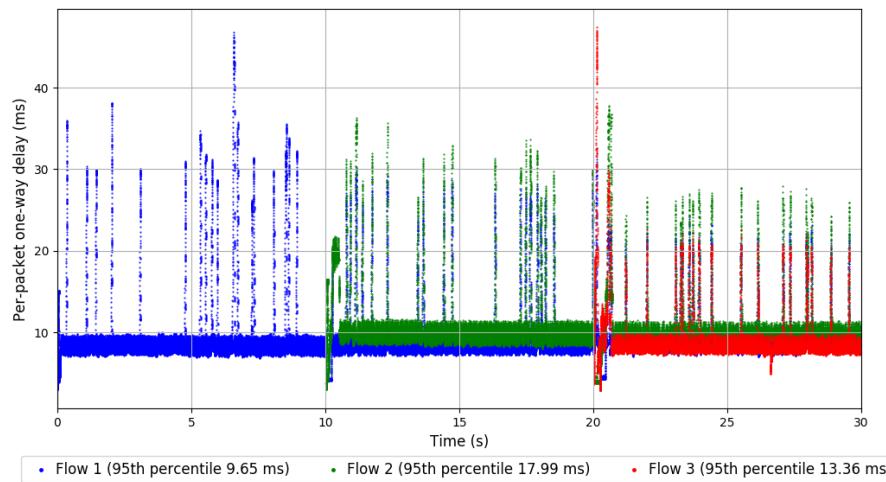
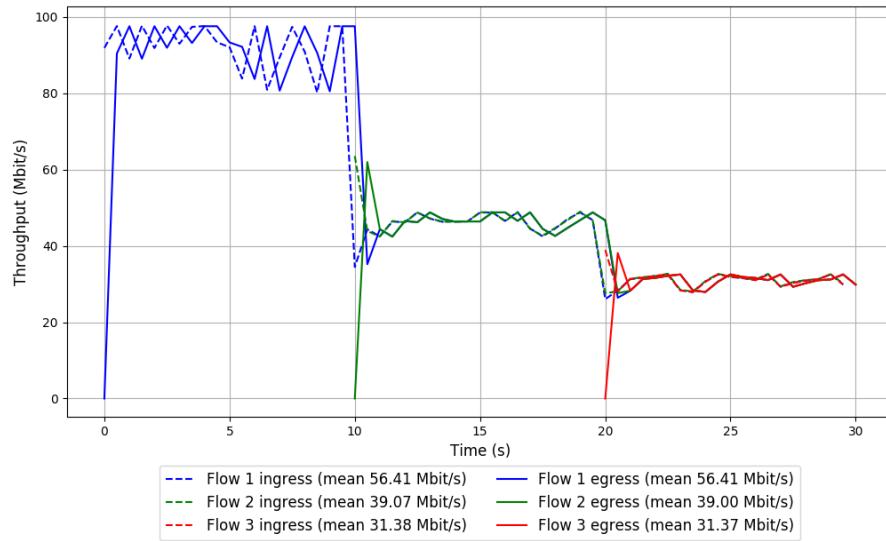


Run 3: Statistics of TCP BBR

```
Start at: 2018-05-22 16:16:16
End at: 2018-05-22 16:16:46
Local clock offset: -5.263 ms
Remote clock offset: -4.569 ms

# Below is generated by plot.py at 2018-05-22 18:30:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 12.528 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 56.41 Mbit/s
95th percentile per-packet one-way delay: 9.654 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 17.989 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 13.356 ms
Loss rate: 0.10%
```

Run 3: Report of TCP BBR — Data Link

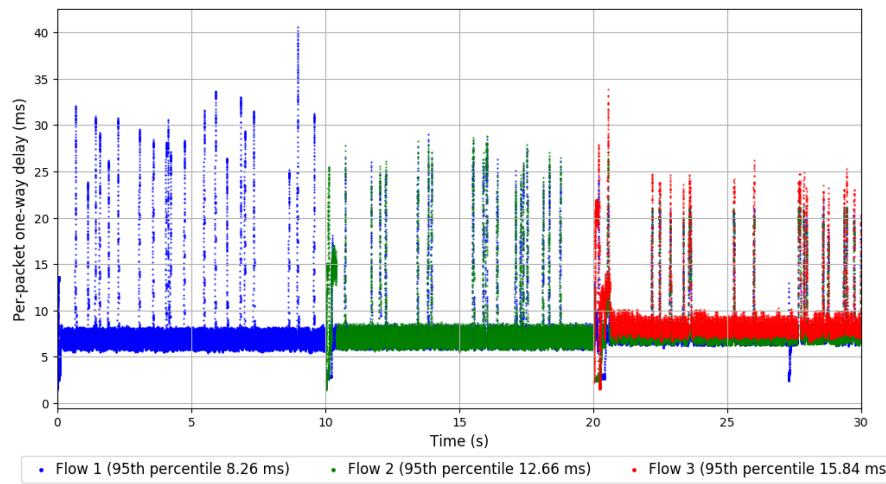
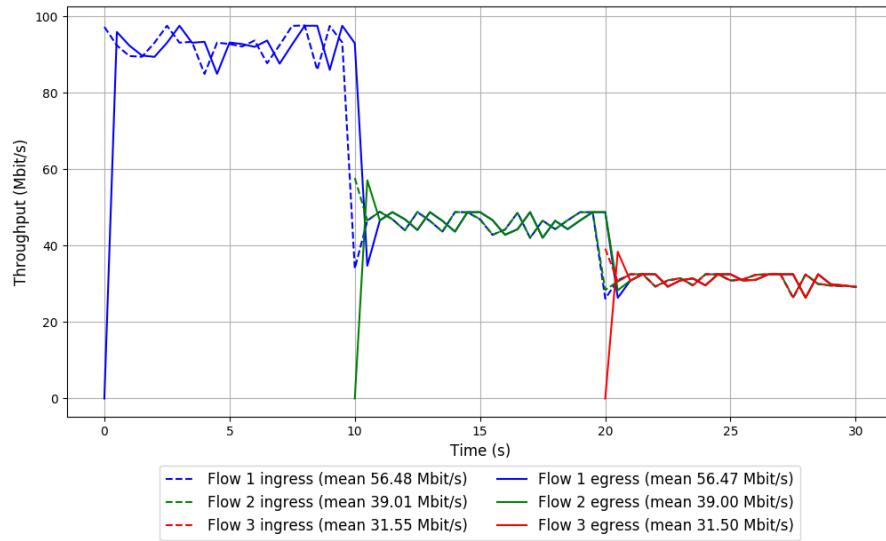


Run 4: Statistics of TCP BBR

```
Start at: 2018-05-22 16:34:02
End at: 2018-05-22 16:34:32
Local clock offset: -6.555 ms
Remote clock offset: -8.205 ms

# Below is generated by plot.py at 2018-05-22 18:30:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 10.485 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 56.47 Mbit/s
95th percentile per-packet one-way delay: 8.255 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 12.658 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 15.840 ms
Loss rate: 0.19%
```

Run 4: Report of TCP BBR — Data Link

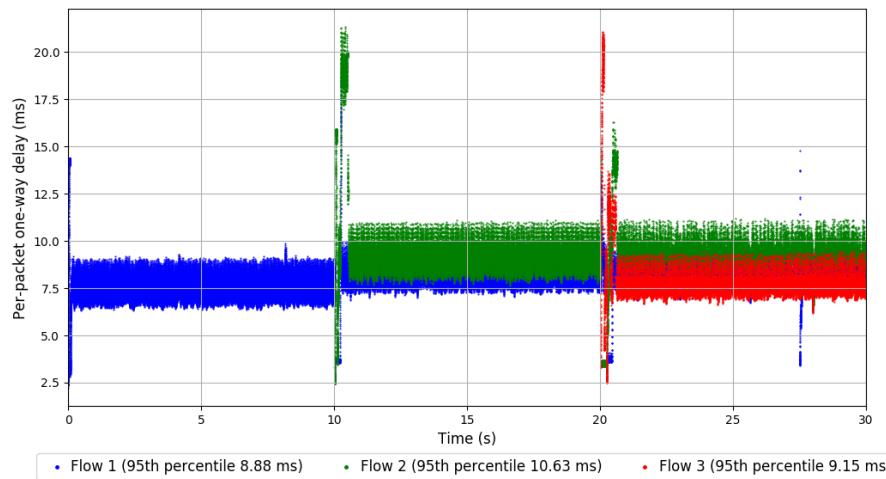
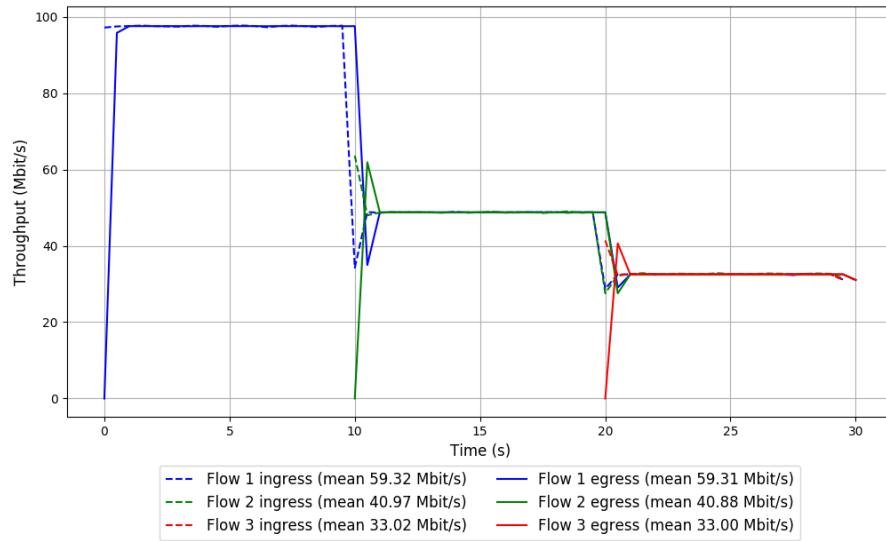


Run 5: Statistics of TCP BBR

```
Start at: 2018-05-22 16:51:52
End at: 2018-05-22 16:52:22
Local clock offset: -5.662 ms
Remote clock offset: -6.115 ms

# Below is generated by plot.py at 2018-05-22 18:30:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 9.938 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 8.879 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 10.630 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 9.148 ms
Loss rate: 0.09%
```

Run 5: Report of TCP BBR — Data Link

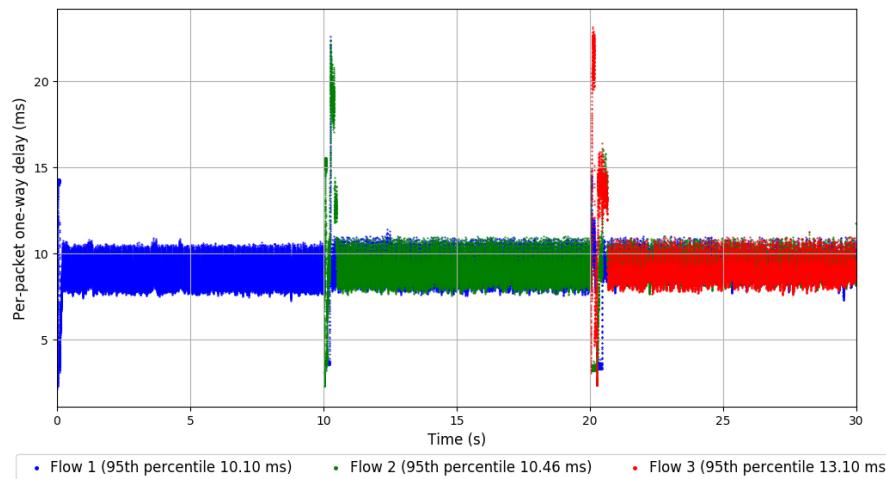
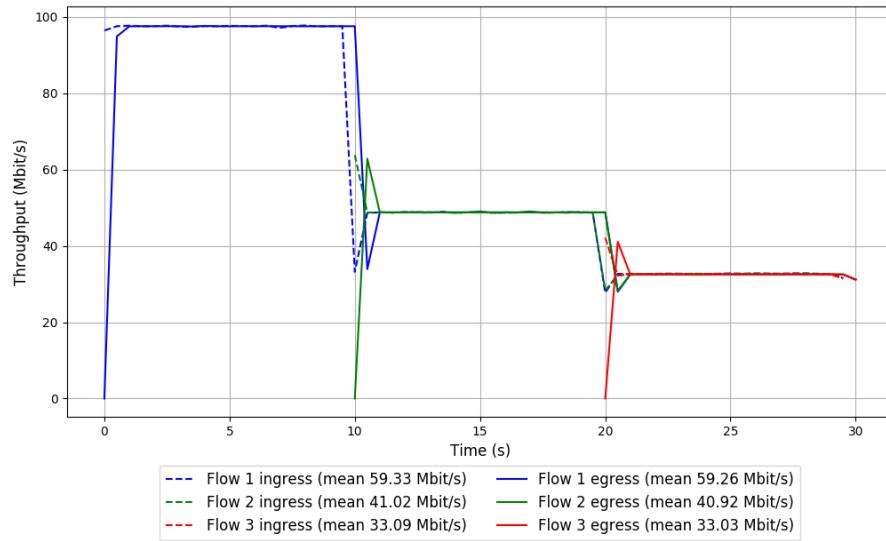


Run 6: Statistics of TCP BBR

```
Start at: 2018-05-22 17:09:44
End at: 2018-05-22 17:10:14
Local clock offset: -6.012 ms
Remote clock offset: -2.72 ms

# Below is generated by plot.py at 2018-05-22 18:30:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 10.244 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 10.100 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 10.456 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 13.099 ms
Loss rate: 0.24%
```

Run 6: Report of TCP BBR — Data Link

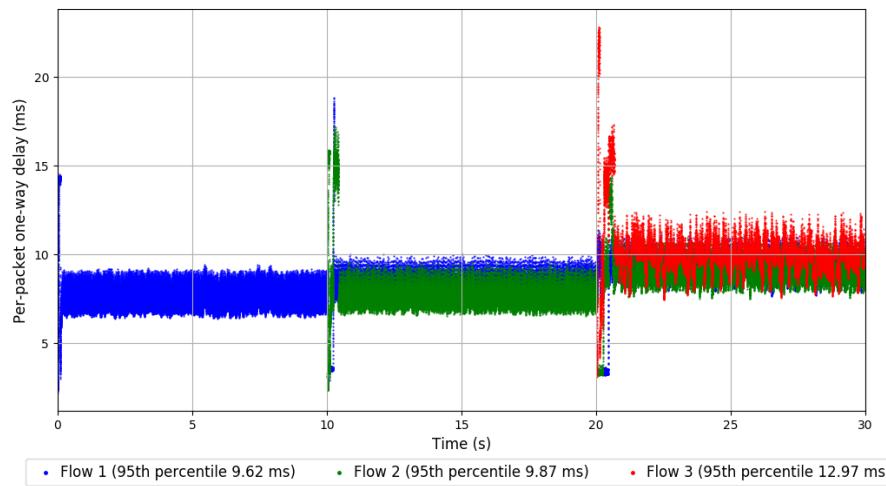
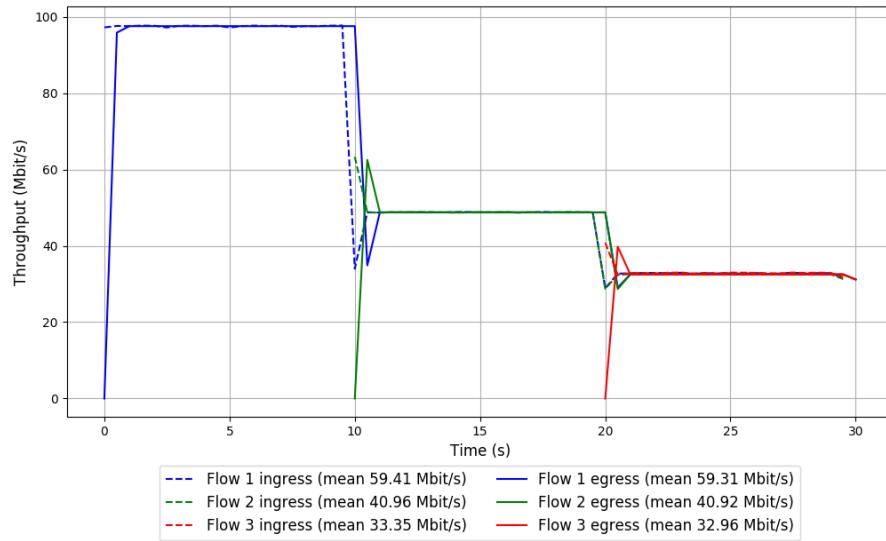


Run 7: Statistics of TCP BBR

```
Start at: 2018-05-22 17:27:35
End at: 2018-05-22 17:28:05
Local clock offset: -6.112 ms
Remote clock offset: -2.205 ms

# Below is generated by plot.py at 2018-05-22 18:30:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 10.339 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 9.625 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 9.871 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 32.96 Mbit/s
95th percentile per-packet one-way delay: 12.970 ms
Loss rate: 1.22%
```

Run 7: Report of TCP BBR — Data Link

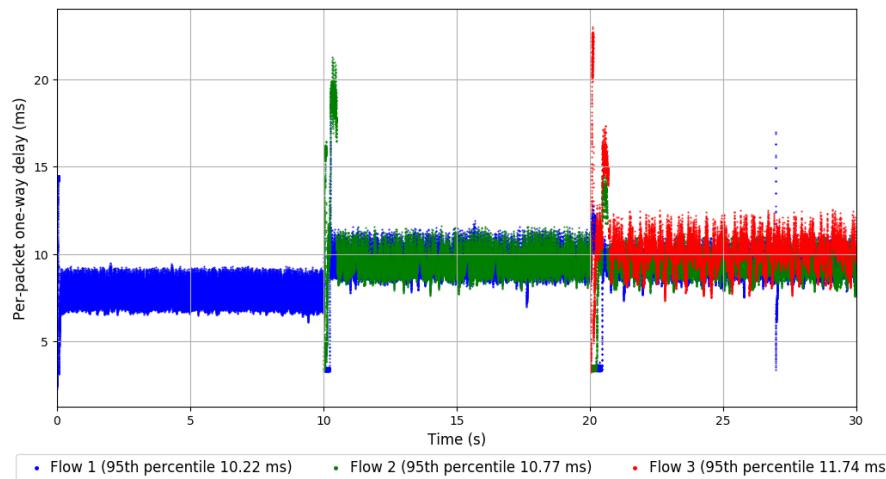
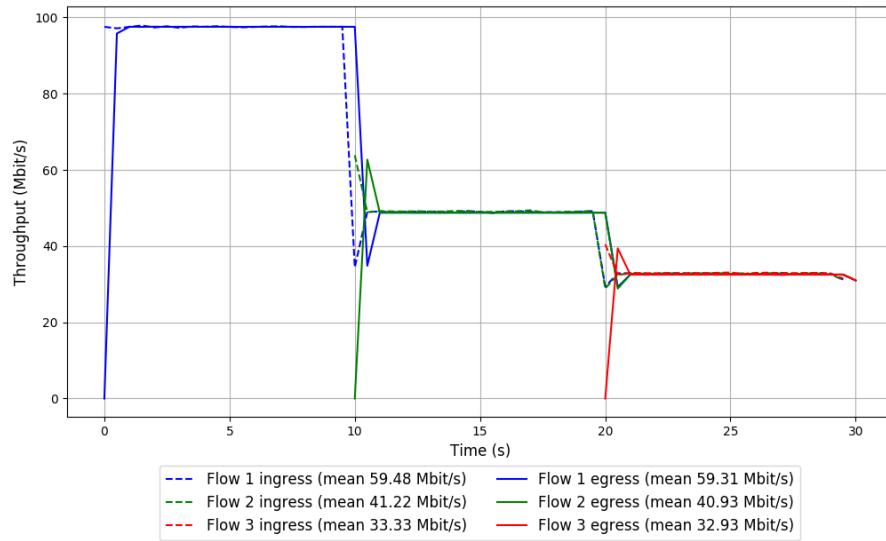


Run 8: Statistics of TCP BBR

```
Start at: 2018-05-22 17:45:25
End at: 2018-05-22 17:45:55
Local clock offset: -5.976 ms
Remote clock offset: -1.798 ms

# Below is generated by plot.py at 2018-05-22 18:30:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 10.734 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 10.216 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: 10.774 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 32.93 Mbit/s
95th percentile per-packet one-way delay: 11.742 ms
Loss rate: 1.24%
```

Run 8: Report of TCP BBR — Data Link

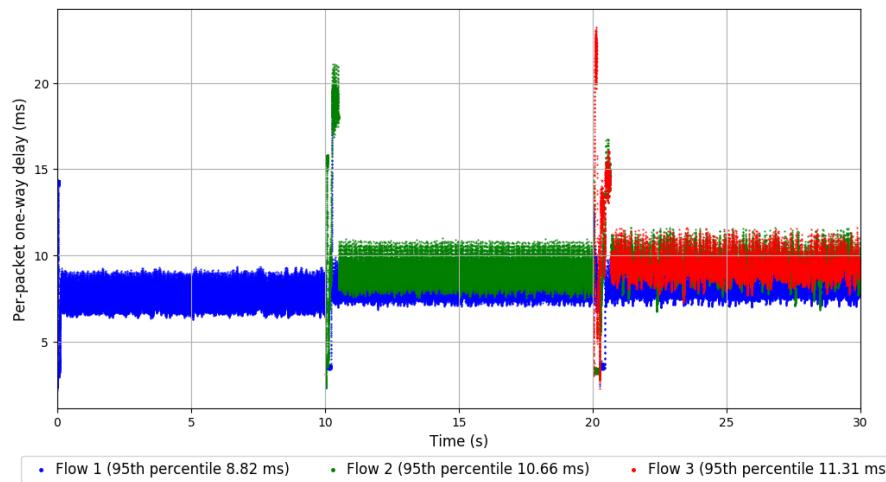
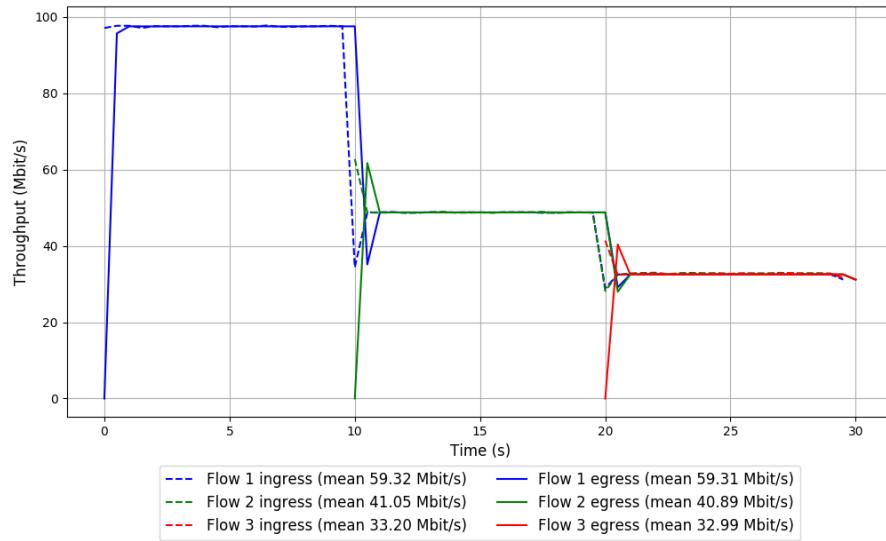


Run 9: Statistics of TCP BBR

```
Start at: 2018-05-22 18:03:17
End at: 2018-05-22 18:03:47
Local clock offset: -5.862 ms
Remote clock offset: -2.533 ms

# Below is generated by plot.py at 2018-05-22 18:31:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 10.137 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 8.818 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.89 Mbit/s
95th percentile per-packet one-way delay: 10.656 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 32.99 Mbit/s
95th percentile per-packet one-way delay: 11.307 ms
Loss rate: 0.70%
```

Run 9: Report of TCP BBR — Data Link

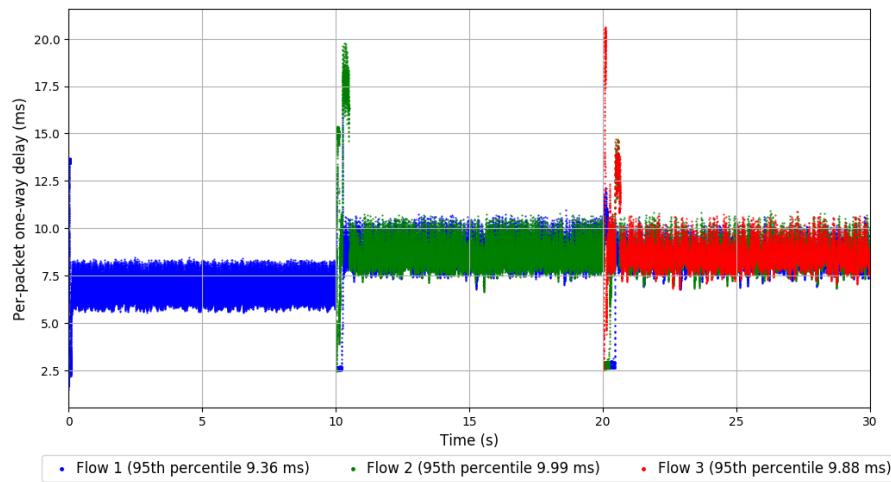
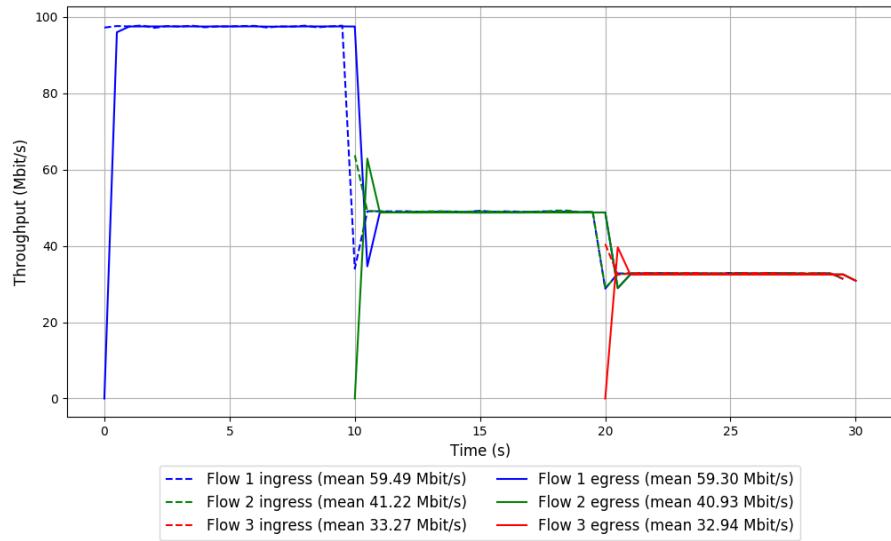


Run 10: Statistics of TCP BBR

```
Start at: 2018-05-22 18:21:07
End at: 2018-05-22 18:21:37
Local clock offset: -6.526 ms
Remote clock offset: -3.422 ms

# Below is generated by plot.py at 2018-05-22 18:31:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 9.597 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 9.359 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 40.93 Mbit/s
95th percentile per-packet one-way delay: 9.987 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 32.94 Mbit/s
95th percentile per-packet one-way delay: 9.880 ms
Loss rate: 1.03%
```

Run 10: Report of TCP BBR — Data Link

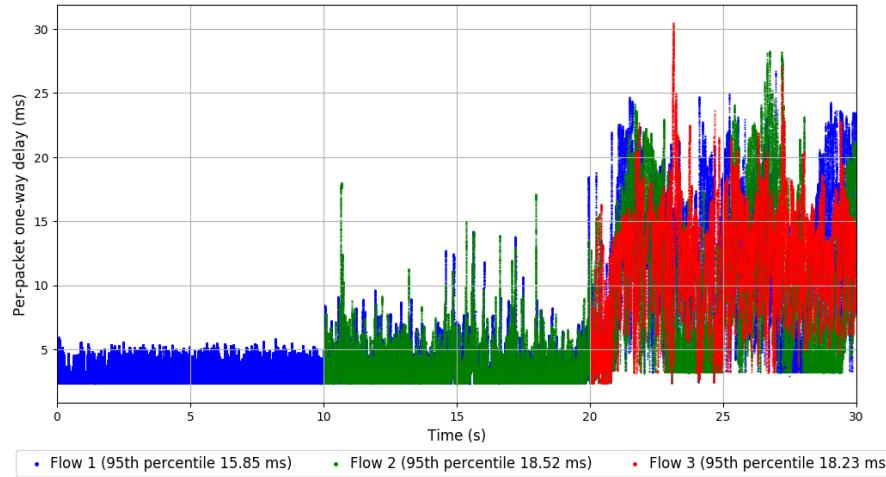
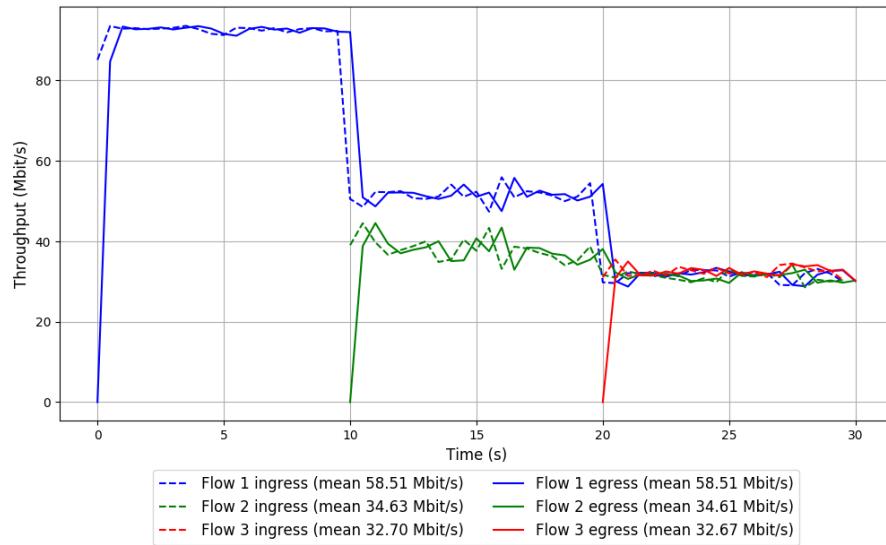


Run 1: Statistics of Copa

```
Start at: 2018-05-22 15:30:41
End at: 2018-05-22 15:31:11
Local clock offset: -6.008 ms
Remote clock offset: -2.301 ms

# Below is generated by plot.py at 2018-05-22 18:32:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.40 Mbit/s
95th percentile per-packet one-way delay: 17.201 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 58.51 Mbit/s
95th percentile per-packet one-way delay: 15.851 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 34.61 Mbit/s
95th percentile per-packet one-way delay: 18.522 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 32.67 Mbit/s
95th percentile per-packet one-way delay: 18.232 ms
Loss rate: 0.13%
```

Run 1: Report of Copa — Data Link

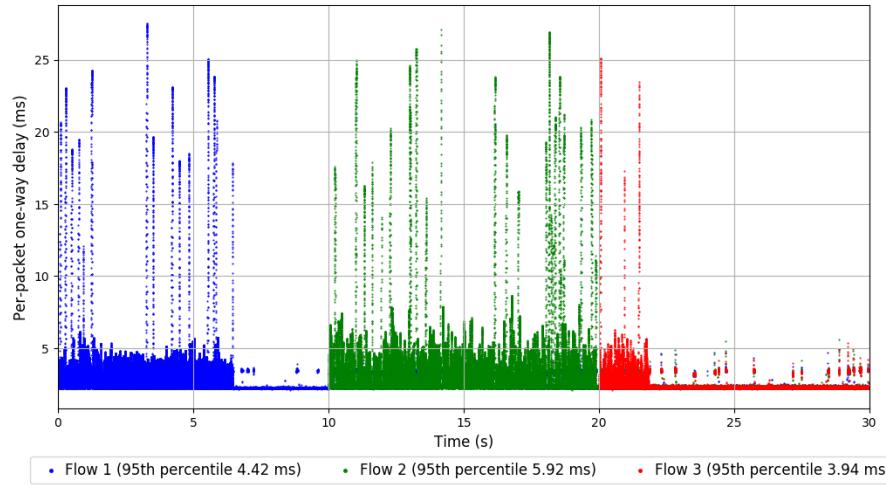
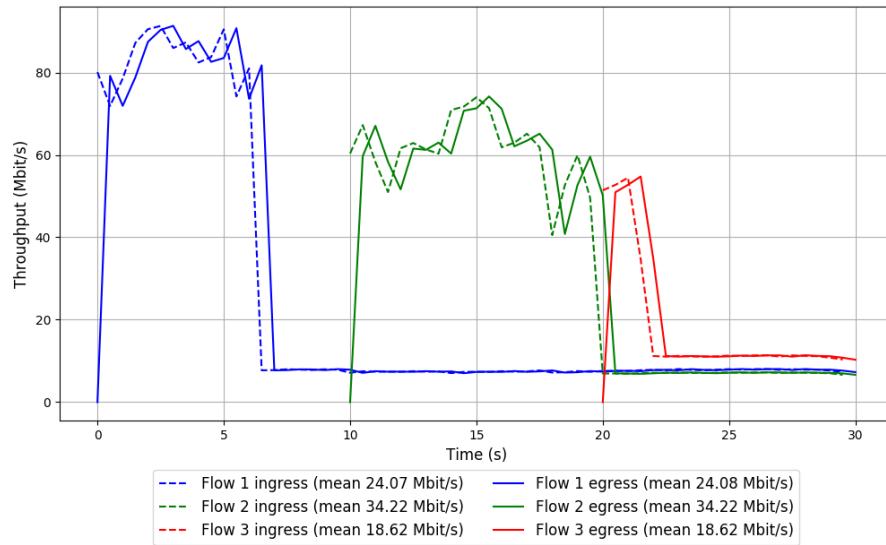


Run 2: Statistics of Copa

```
Start at: 2018-05-22 15:48:32
End at: 2018-05-22 15:49:02
Local clock offset: -6.234 ms
Remote clock offset: -2.615 ms

# Below is generated by plot.py at 2018-05-22 18:32:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 5.065 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 4.418 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: 5.919 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.62 Mbit/s
95th percentile per-packet one-way delay: 3.942 ms
Loss rate: 0.03%
```

Run 2: Report of Copa — Data Link

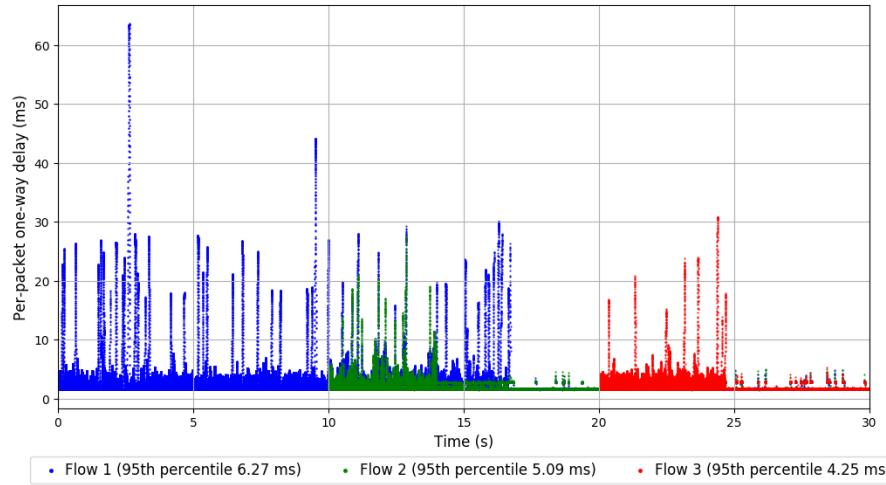
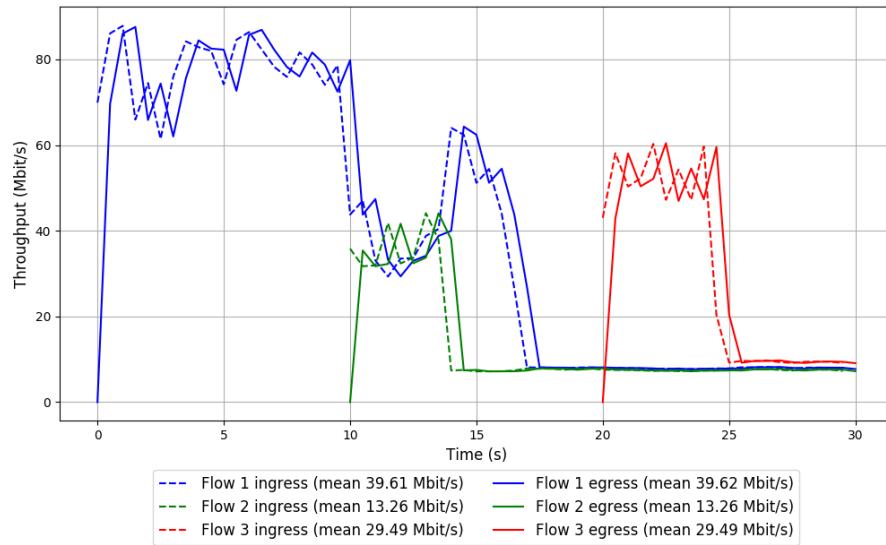


Run 3: Statistics of Copa

```
Start at: 2018-05-22 16:06:15
End at: 2018-05-22 16:06:45
Local clock offset: -6.878 ms
Remote clock offset: -2.836 ms

# Below is generated by plot.py at 2018-05-22 18:32:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.24 Mbit/s
95th percentile per-packet one-way delay: 5.577 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 39.62 Mbit/s
95th percentile per-packet one-way delay: 6.266 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 5.094 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 29.49 Mbit/s
95th percentile per-packet one-way delay: 4.253 ms
Loss rate: 0.01%
```

Run 3: Report of Copa — Data Link

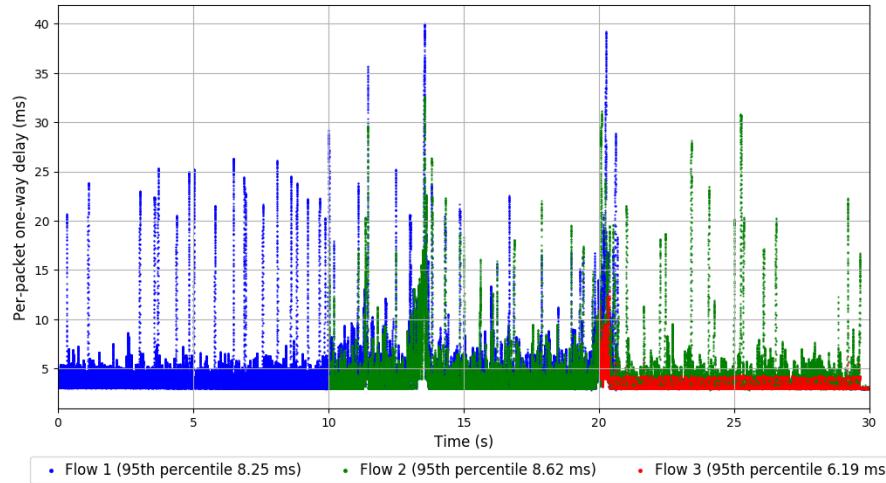
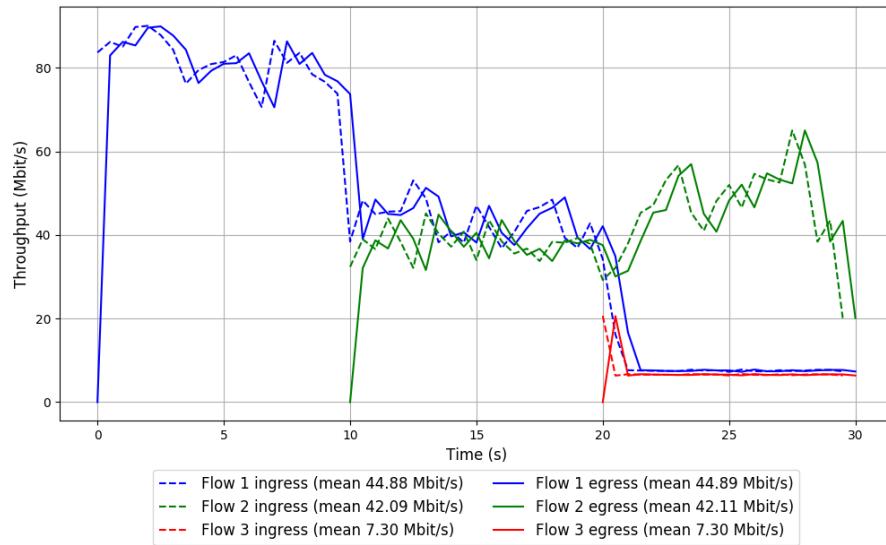


Run 4: Statistics of Copa

```
Start at: 2018-05-22 16:23:58
End at: 2018-05-22 16:24:28
Local clock offset: -5.252 ms
Remote clock offset: -6.797 ms

# Below is generated by plot.py at 2018-05-22 18:32:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.35 Mbit/s
95th percentile per-packet one-way delay: 8.290 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 44.89 Mbit/s
95th percentile per-packet one-way delay: 8.247 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.11 Mbit/s
95th percentile per-packet one-way delay: 8.621 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 6.186 ms
Loss rate: 0.04%
```

Run 4: Report of Copa — Data Link

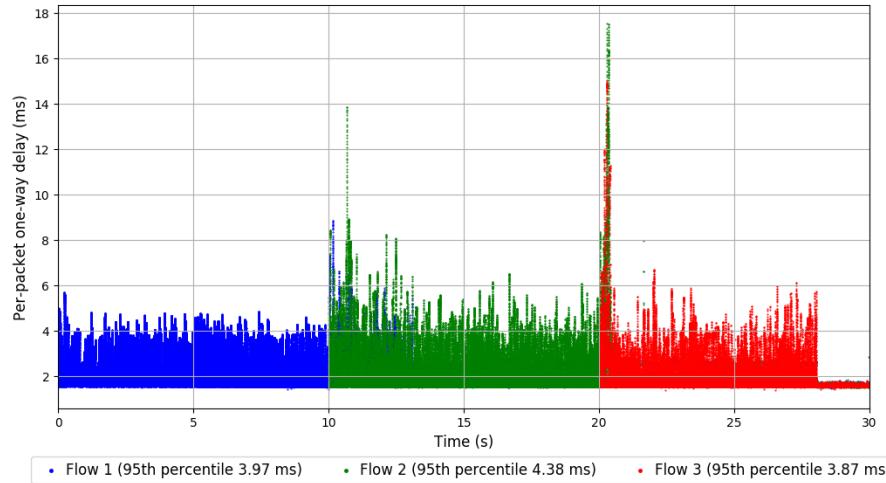
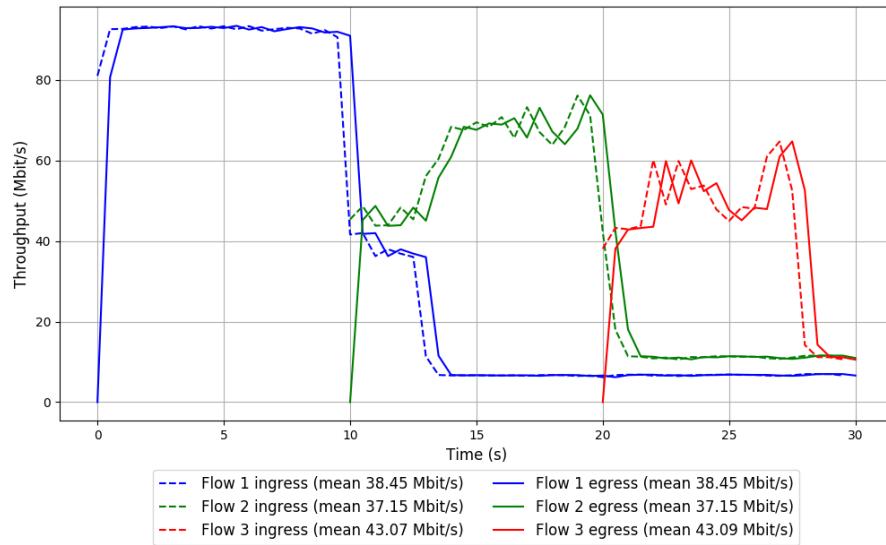


Run 5: Statistics of Copa

```
Start at: 2018-05-22 16:41:45
End at: 2018-05-22 16:42:15
Local clock offset: -6.452 ms
Remote clock offset: -8.748 ms

# Below is generated by plot.py at 2018-05-22 18:32:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.51 Mbit/s
95th percentile per-packet one-way delay: 4.039 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 38.45 Mbit/s
95th percentile per-packet one-way delay: 3.968 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 4.375 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 43.09 Mbit/s
95th percentile per-packet one-way delay: 3.871 ms
Loss rate: 0.01%
```

Run 5: Report of Copa — Data Link

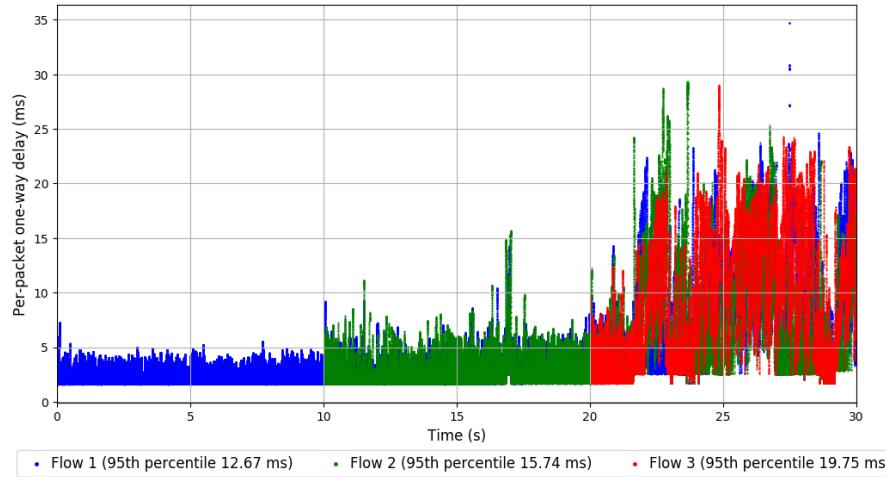
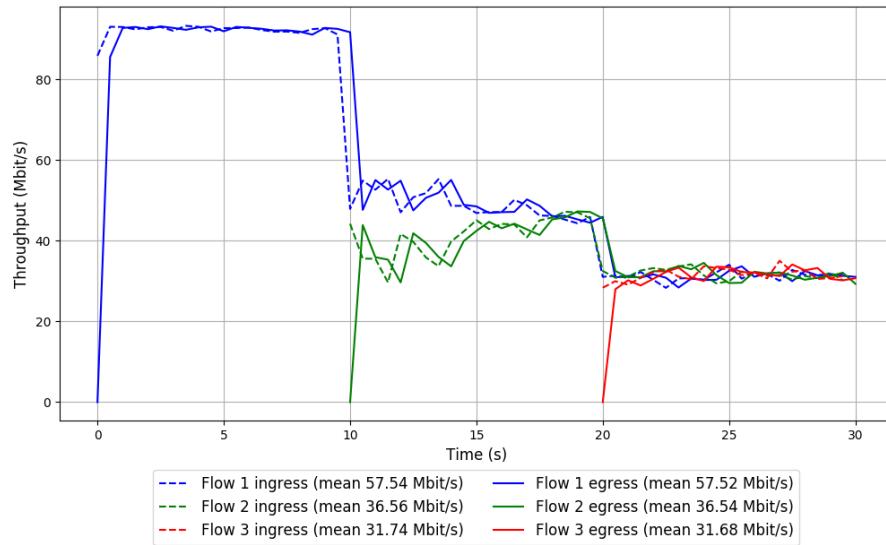


Run 6: Statistics of Copa

```
Start at: 2018-05-22 16:59:36
End at: 2018-05-22 17:00:06
Local clock offset: -6.545 ms
Remote clock offset: -4.036 ms

# Below is generated by plot.py at 2018-05-22 18:32:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 15.942 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 12.670 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.54 Mbit/s
95th percentile per-packet one-way delay: 15.742 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 31.68 Mbit/s
95th percentile per-packet one-way delay: 19.751 ms
Loss rate: 0.24%
```

Run 6: Report of Copa — Data Link

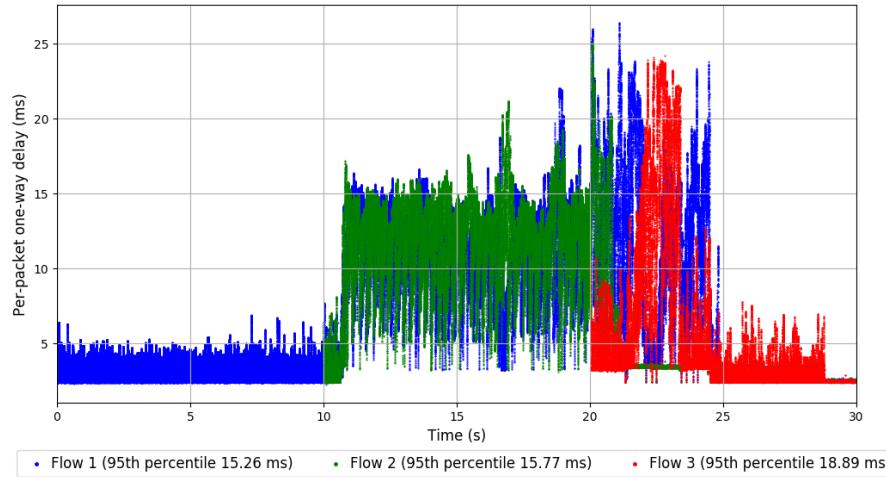
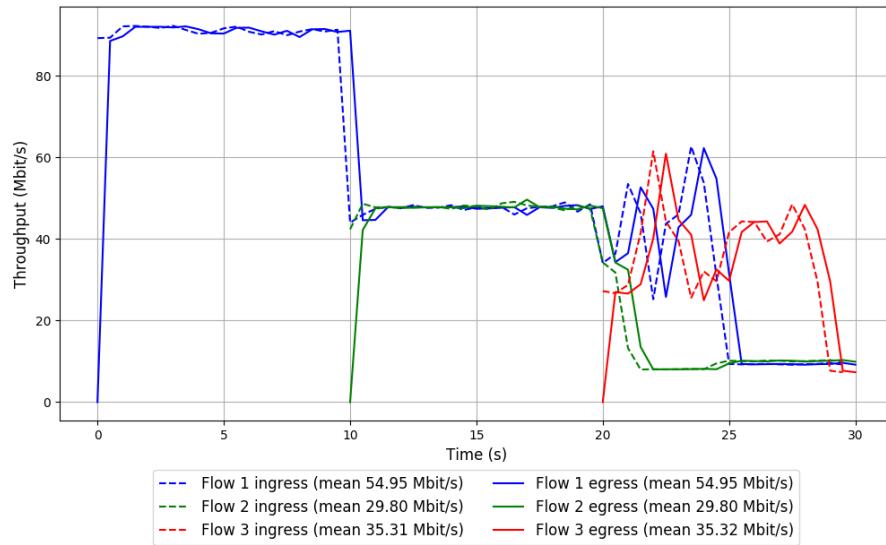


Run 7: Statistics of Copa

```
Start at: 2018-05-22 17:17:27
End at: 2018-05-22 17:17:57
Local clock offset: -6.018 ms
Remote clock offset: -2.262 ms

# Below is generated by plot.py at 2018-05-22 18:33:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 15.775 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.95 Mbit/s
95th percentile per-packet one-way delay: 15.260 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 29.80 Mbit/s
95th percentile per-packet one-way delay: 15.771 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 35.32 Mbit/s
95th percentile per-packet one-way delay: 18.893 ms
Loss rate: 0.01%
```

Run 7: Report of Copa — Data Link

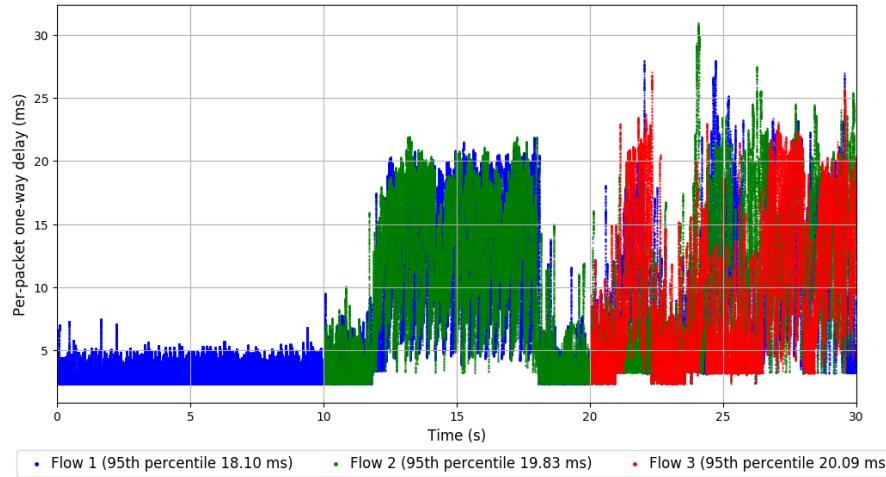
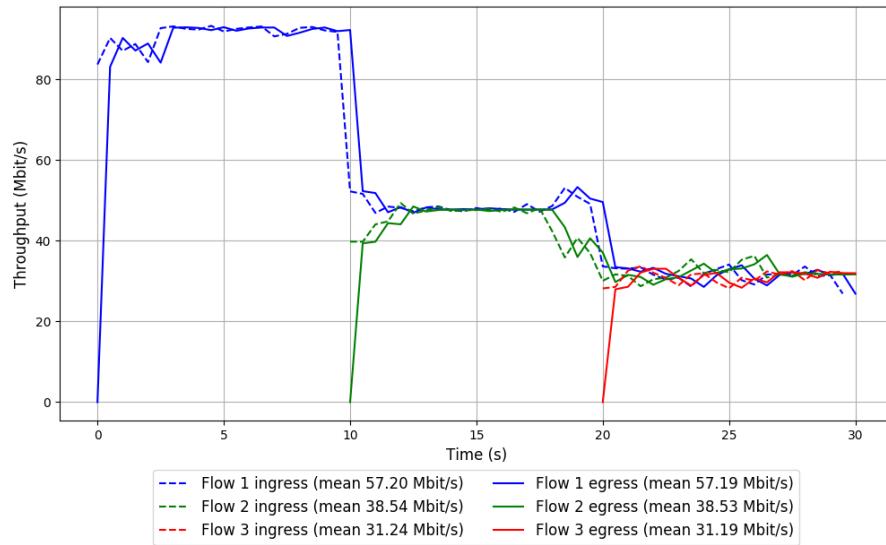


Run 8: Statistics of Copa

```
Start at: 2018-05-22 17:35:17
End at: 2018-05-22 17:35:47
Local clock offset: -5.985 ms
Remote clock offset: -2.026 ms

# Below is generated by plot.py at 2018-05-22 18:33:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 19.031 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 57.19 Mbit/s
95th percentile per-packet one-way delay: 18.101 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 38.53 Mbit/s
95th percentile per-packet one-way delay: 19.833 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 20.087 ms
Loss rate: 0.22%
```

Run 8: Report of Copa — Data Link

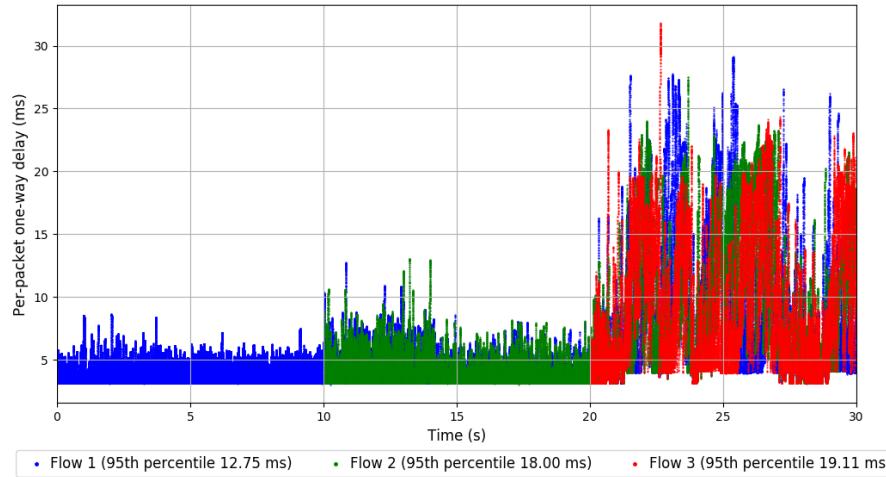
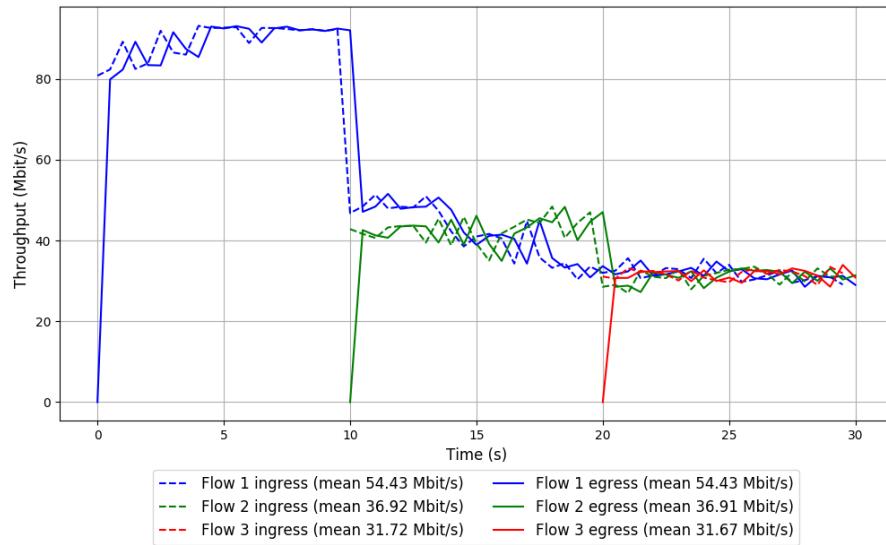


Run 9: Statistics of Copa

```
Start at: 2018-05-22 17:53:09
End at: 2018-05-22 17:53:39
Local clock offset: -5.203 ms
Remote clock offset: -1.453 ms

# Below is generated by plot.py at 2018-05-22 18:33:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.53 Mbit/s
95th percentile per-packet one-way delay: 16.887 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 54.43 Mbit/s
95th percentile per-packet one-way delay: 12.750 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 17.995 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 19.114 ms
Loss rate: 0.21%
```

Run 9: Report of Copa — Data Link

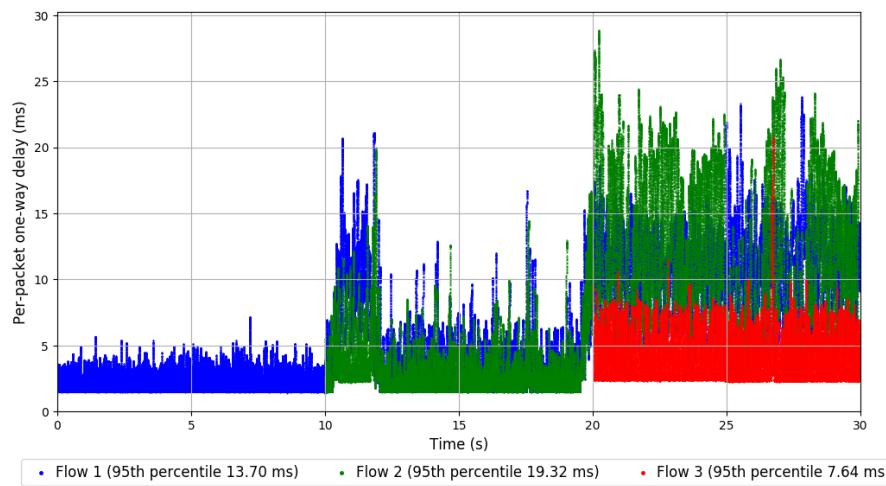
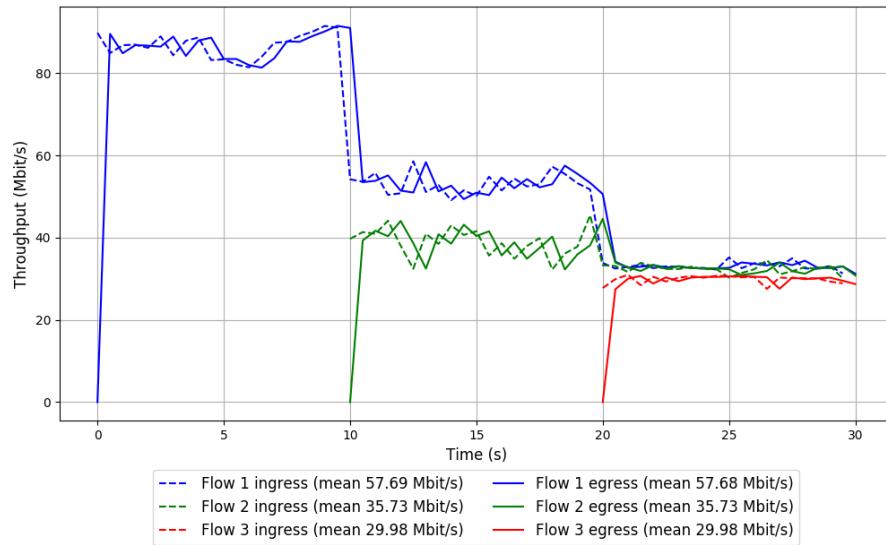


Run 10: Statistics of Copa

```
Start at: 2018-05-22 18:10:59
End at: 2018-05-22 18:11:29
Local clock offset: -6.635 ms
Remote clock offset: -3.012 ms

# Below is generated by plot.py at 2018-05-22 18:33:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.43 Mbit/s
95th percentile per-packet one-way delay: 15.264 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 57.68 Mbit/s
95th percentile per-packet one-way delay: 13.698 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 19.322 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 29.98 Mbit/s
95th percentile per-packet one-way delay: 7.640 ms
Loss rate: 0.04%
```

Run 10: Report of Copa — Data Link

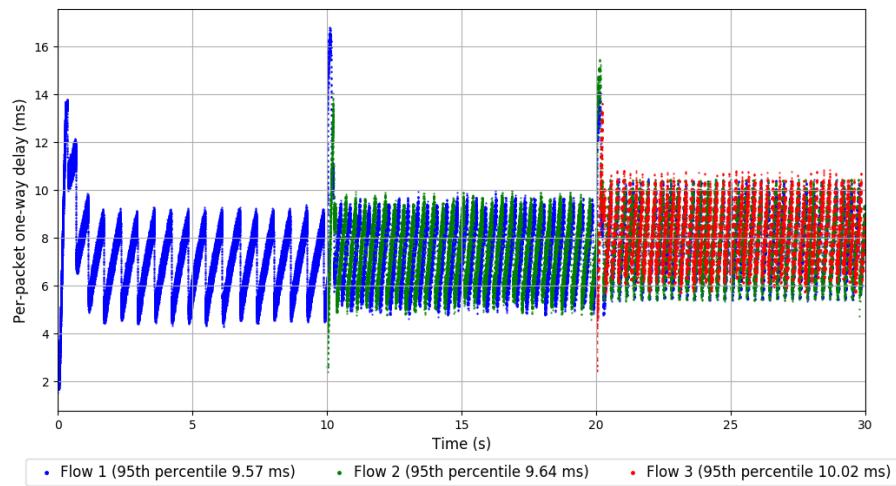
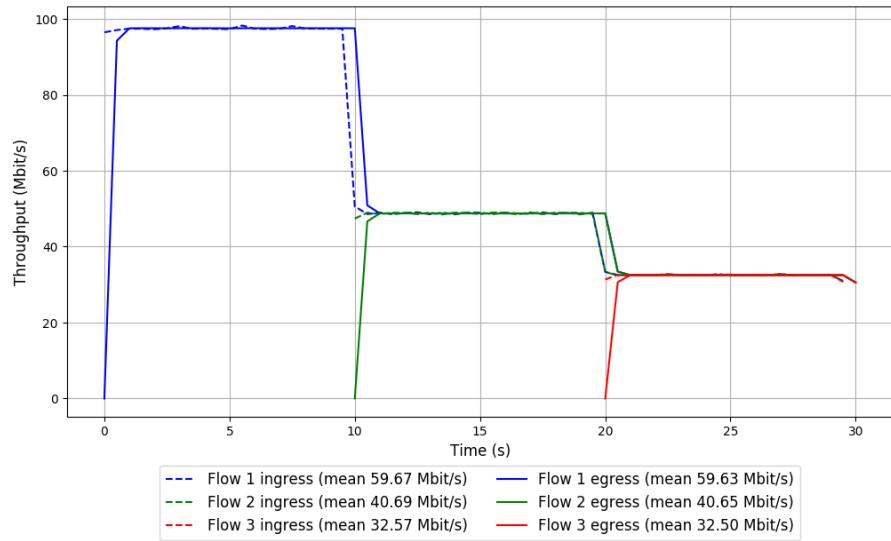


```
Run 1: Statistics of TCP Cubic

Start at: 2018-05-22 15:34:03
End at: 2018-05-22 15:34:33
Local clock offset: -6.881 ms
Remote clock offset: -2.26 ms

# Below is generated by plot.py at 2018-05-22 18:33:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.689 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 9.575 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 9.637 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 10.020 ms
Loss rate: 0.26%
```

Run 1: Report of TCP Cubic — Data Link

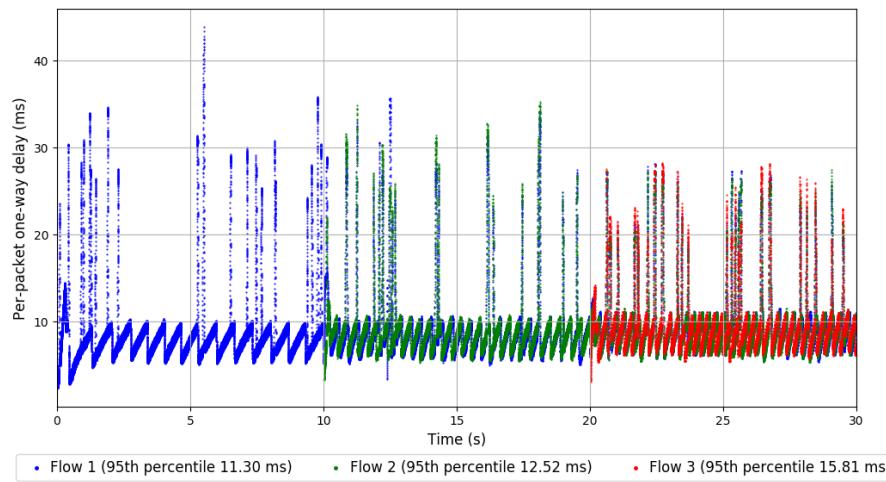
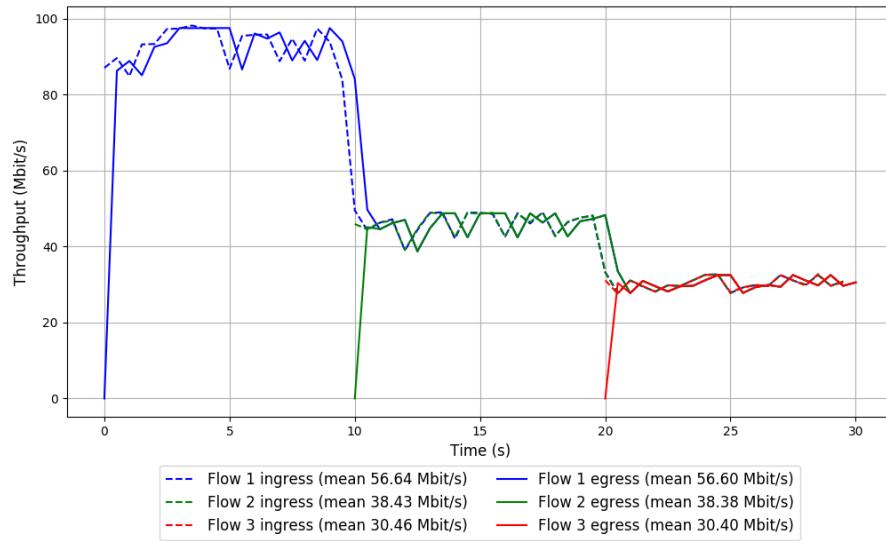


Run 2: Statistics of TCP Cubic

```
Start at: 2018-05-22 15:51:50
End at: 2018-05-22 15:52:20
Local clock offset: -6.16 ms
Remote clock offset: -2.76 ms

# Below is generated by plot.py at 2018-05-22 18:33:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.25 Mbit/s
95th percentile per-packet one-way delay: 12.128 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 56.60 Mbit/s
95th percentile per-packet one-way delay: 11.300 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 38.38 Mbit/s
95th percentile per-packet one-way delay: 12.522 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 15.807 ms
Loss rate: 0.23%
```

Run 2: Report of TCP Cubic — Data Link

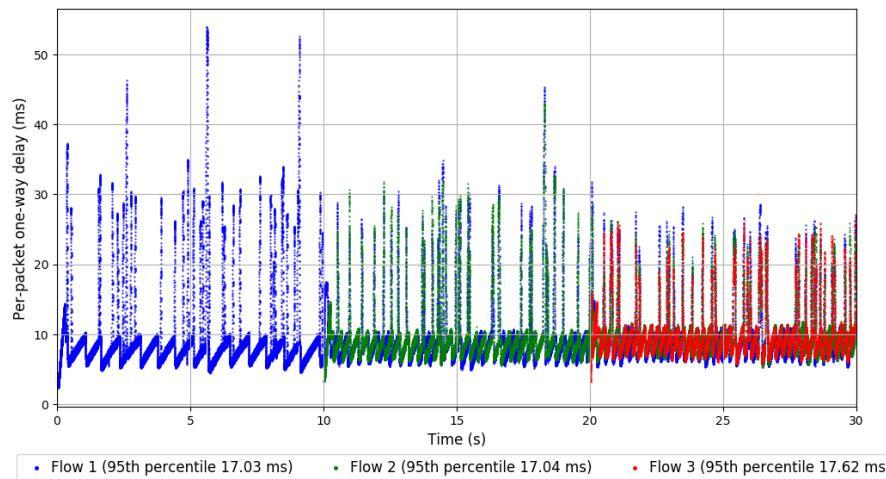
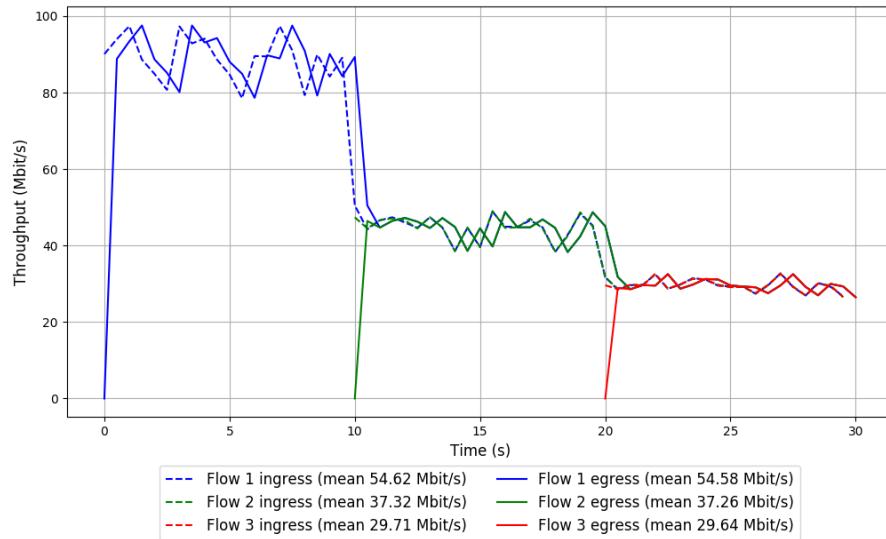


Run 3: Statistics of TCP Cubic

```
Start at: 2018-05-22 16:09:34
End at: 2018-05-22 16:10:04
Local clock offset: -6.054 ms
Remote clock offset: -2.723 ms

# Below is generated by plot.py at 2018-05-22 18:33:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.24 Mbit/s
95th percentile per-packet one-way delay: 17.116 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 54.58 Mbit/s
95th percentile per-packet one-way delay: 17.026 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 37.26 Mbit/s
95th percentile per-packet one-way delay: 17.035 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 29.64 Mbit/s
95th percentile per-packet one-way delay: 17.621 ms
Loss rate: 0.26%
```

Run 3: Report of TCP Cubic — Data Link

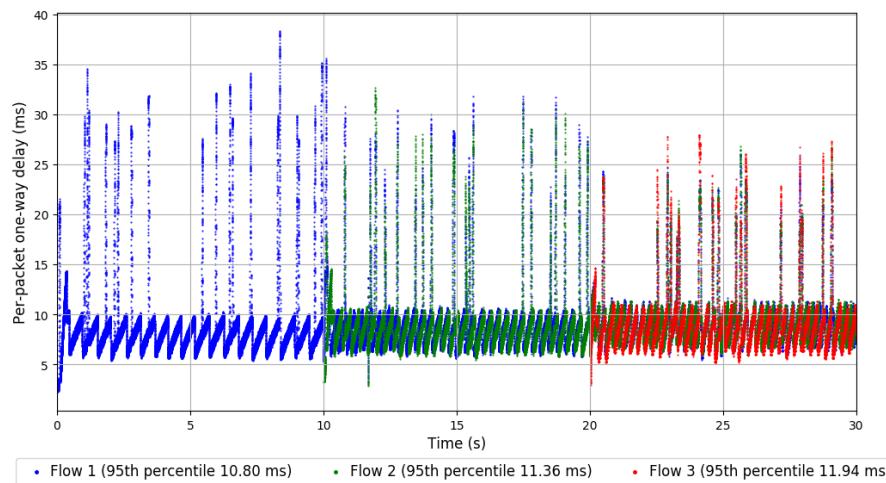
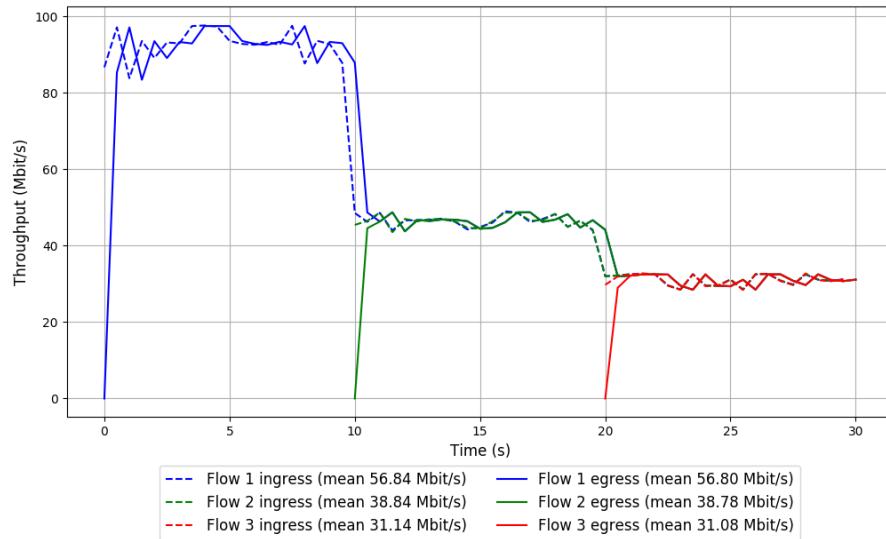


Run 4: Statistics of TCP Cubic

```
Start at: 2018-05-22 16:27:18
End at: 2018-05-22 16:27:48
Local clock offset: -5.966 ms
Remote clock offset: -7.414 ms

# Below is generated by plot.py at 2018-05-22 18:33:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 10.959 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 56.80 Mbit/s
95th percentile per-packet one-way delay: 10.799 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 38.78 Mbit/s
95th percentile per-packet one-way delay: 11.357 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 11.941 ms
Loss rate: 0.23%
```

Run 4: Report of TCP Cubic — Data Link

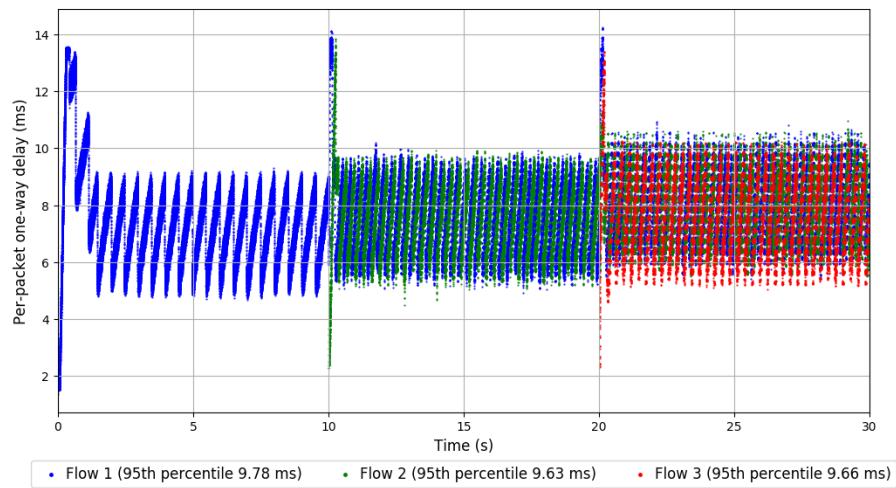
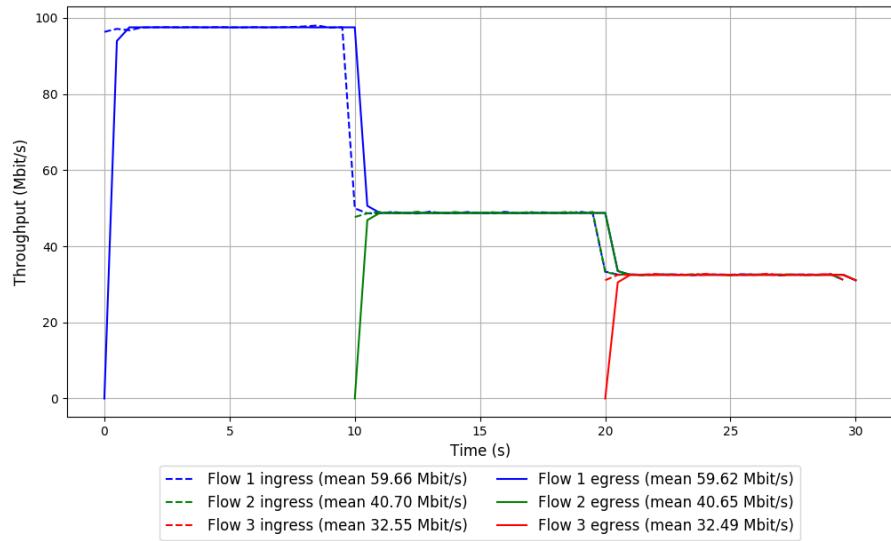


Run 5: Statistics of TCP Cubic

```
Start at: 2018-05-22 16:45:05
End at: 2018-05-22 16:45:35
Local clock offset: -6.49 ms
Remote clock offset: -8.932 ms

# Below is generated by plot.py at 2018-05-22 18:34:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 9.694 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.62 Mbit/s
95th percentile per-packet one-way delay: 9.776 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 9.629 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 9.661 ms
Loss rate: 0.23%
```

Run 5: Report of TCP Cubic — Data Link

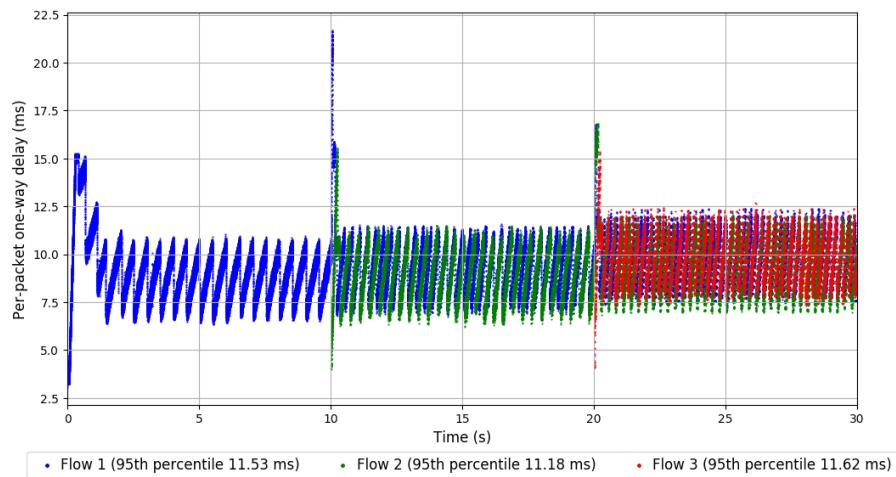
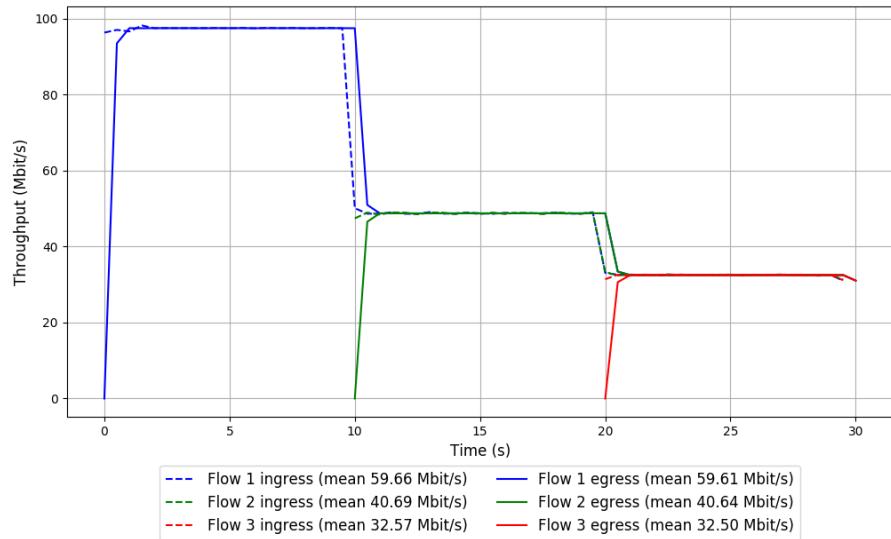


Run 6: Statistics of TCP Cubic

```
Start at: 2018-05-22 17:02:57
End at: 2018-05-22 17:03:27
Local clock offset: -5.065 ms
Remote clock offset: -3.517 ms

# Below is generated by plot.py at 2018-05-22 18:34:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 11.473 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 11.529 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 11.175 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 11.618 ms
Loss rate: 0.25%
```

Run 6: Report of TCP Cubic — Data Link

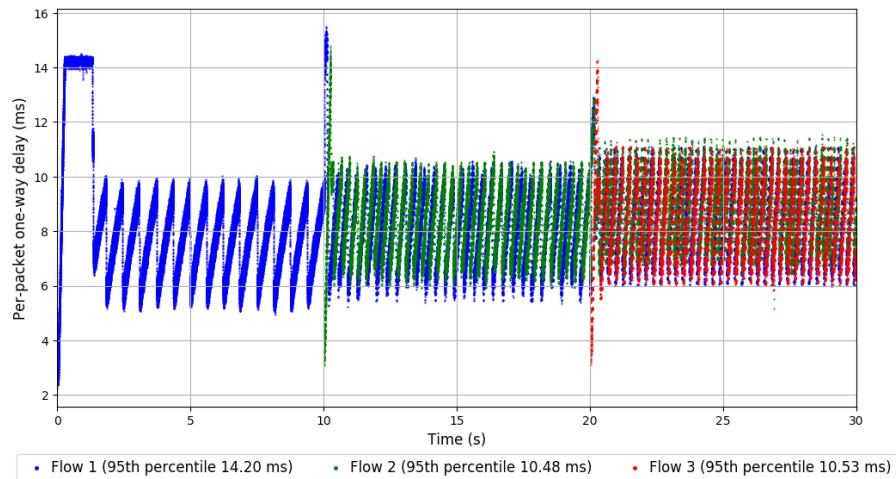
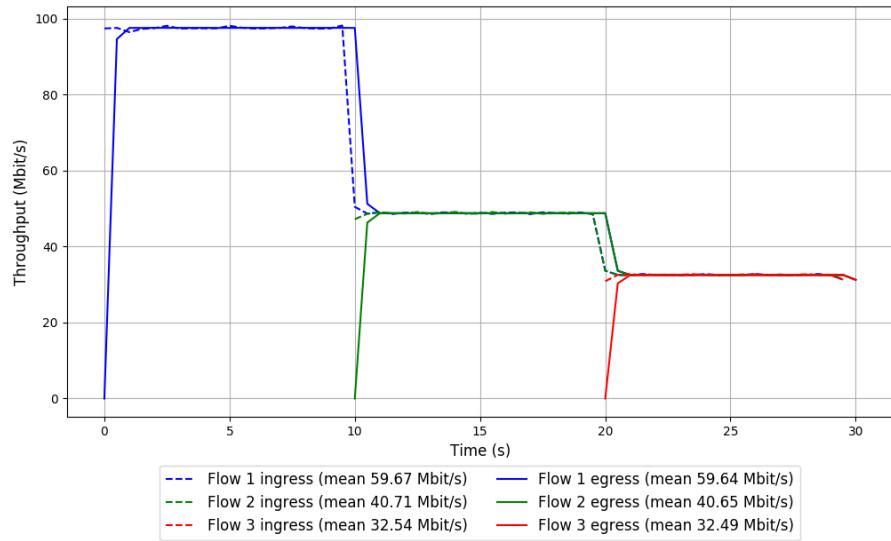


Run 7: Statistics of TCP Cubic

```
Start at: 2018-05-22 17:20:48
End at: 2018-05-22 17:21:18
Local clock offset: -6.03 ms
Remote clock offset: -2.036 ms

# Below is generated by plot.py at 2018-05-22 18:34:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 10.829 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 59.64 Mbit/s
95th percentile per-packet one-way delay: 14.195 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 10.480 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 10.526 ms
Loss rate: 0.21%
```

Run 7: Report of TCP Cubic — Data Link

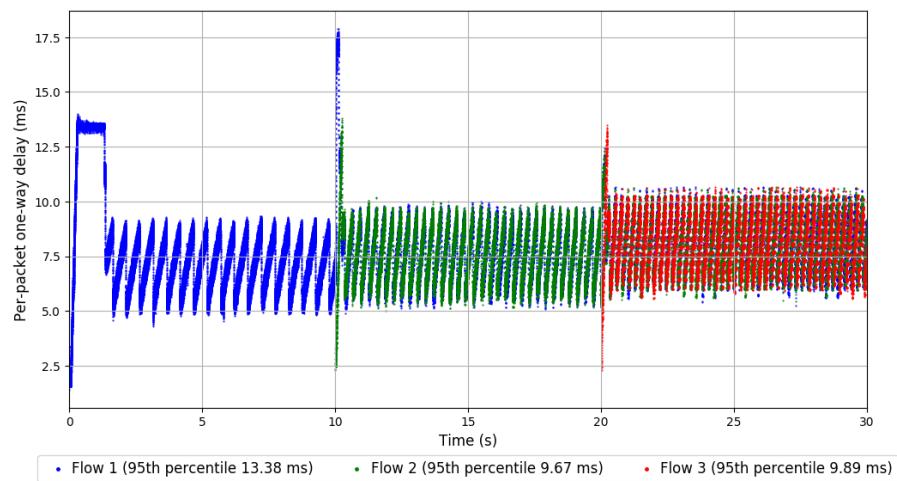
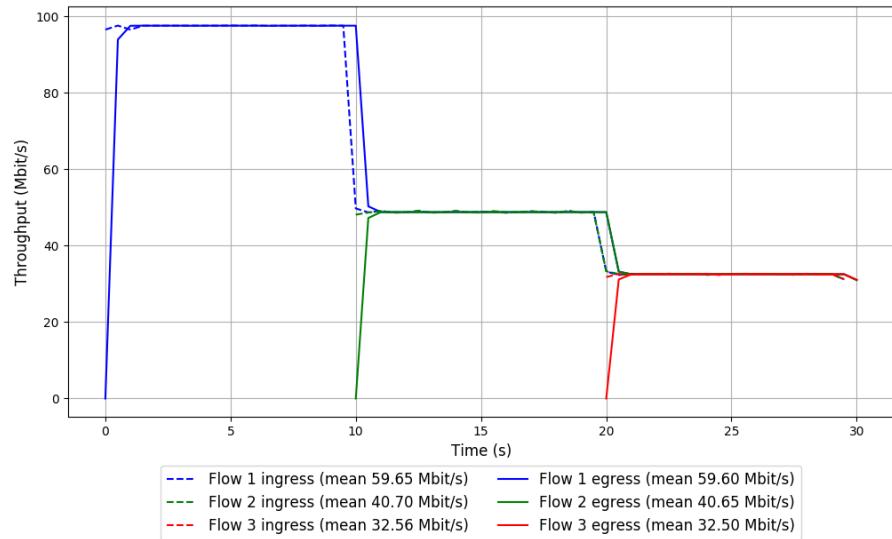


Run 8: Statistics of TCP Cubic

```
Start at: 2018-05-22 17:38:38
End at: 2018-05-22 17:39:08
Local clock offset: -6.815 ms
Remote clock offset: -1.917 ms

# Below is generated by plot.py at 2018-05-22 18:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 10.191 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.60 Mbit/s
95th percentile per-packet one-way delay: 13.381 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 9.669 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 9.893 ms
Loss rate: 0.25%
```

Run 8: Report of TCP Cubic — Data Link

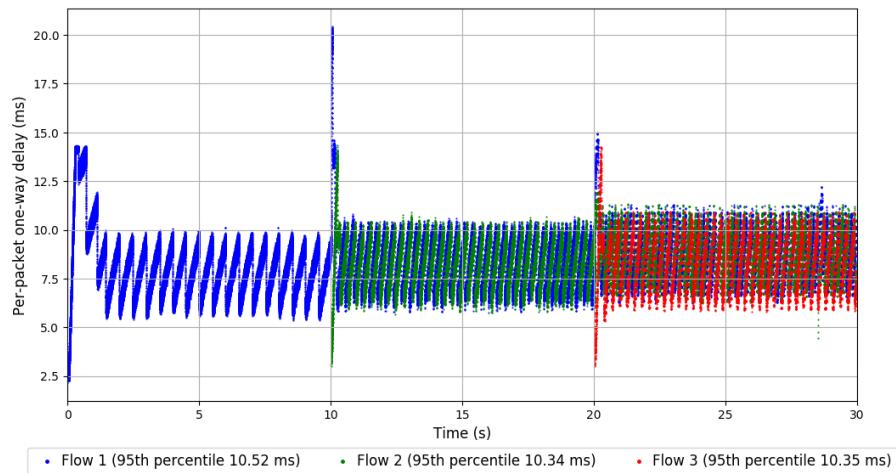
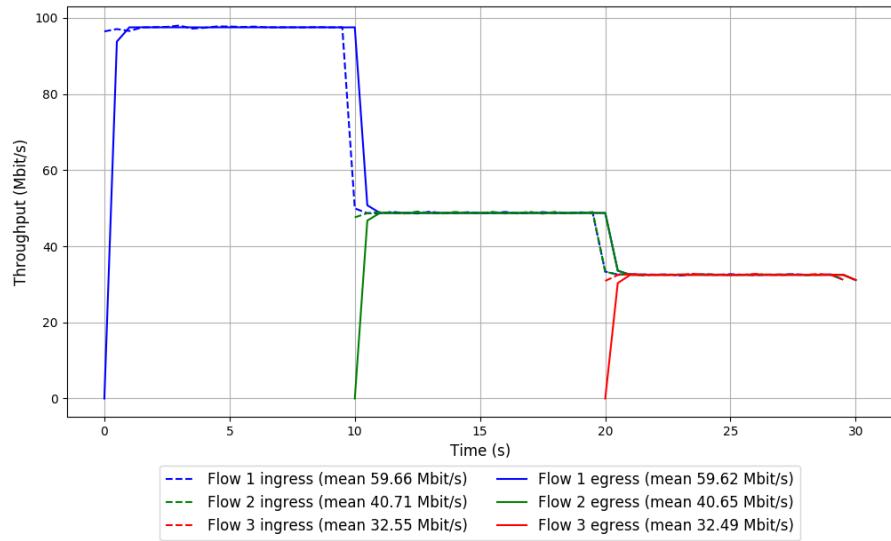


Run 9: Statistics of TCP Cubic

```
Start at: 2018-05-22 17:56:30
End at: 2018-05-22 17:57:00
Local clock offset: -6.047 ms
Remote clock offset: -1.737 ms

# Below is generated by plot.py at 2018-05-22 18:34:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 10.418 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.62 Mbit/s
95th percentile per-packet one-way delay: 10.519 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 10.343 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 10.351 ms
Loss rate: 0.23%
```

Run 9: Report of TCP Cubic — Data Link

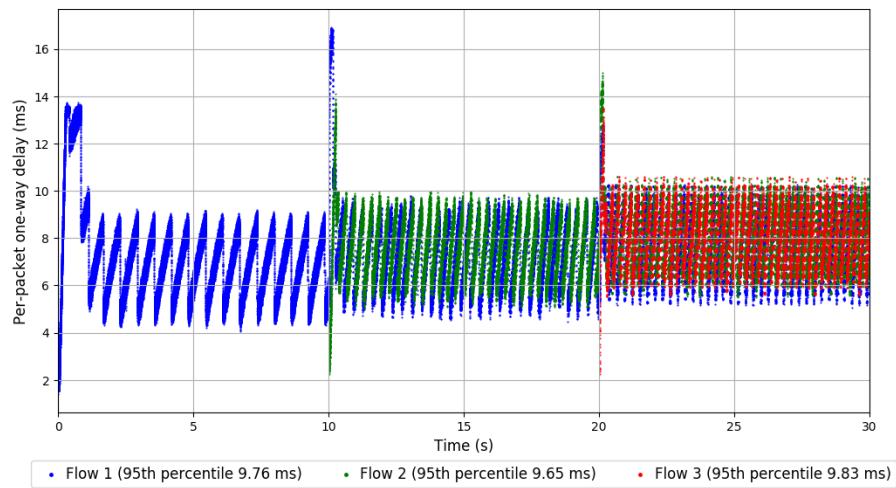
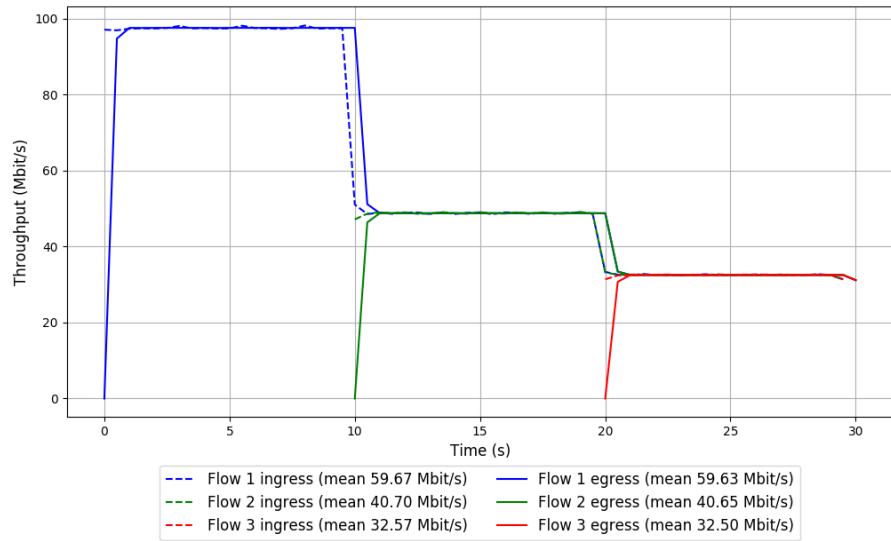


Run 10: Statistics of TCP Cubic

```
Start at: 2018-05-22 18:14:20
End at: 2018-05-22 18:14:50
Local clock offset: -6.624 ms
Remote clock offset: -3.166 ms

# Below is generated by plot.py at 2018-05-22 18:34:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 9.731 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 9.759 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 9.649 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 9.833 ms
Loss rate: 0.26%
```

Run 10: Report of TCP Cubic — Data Link

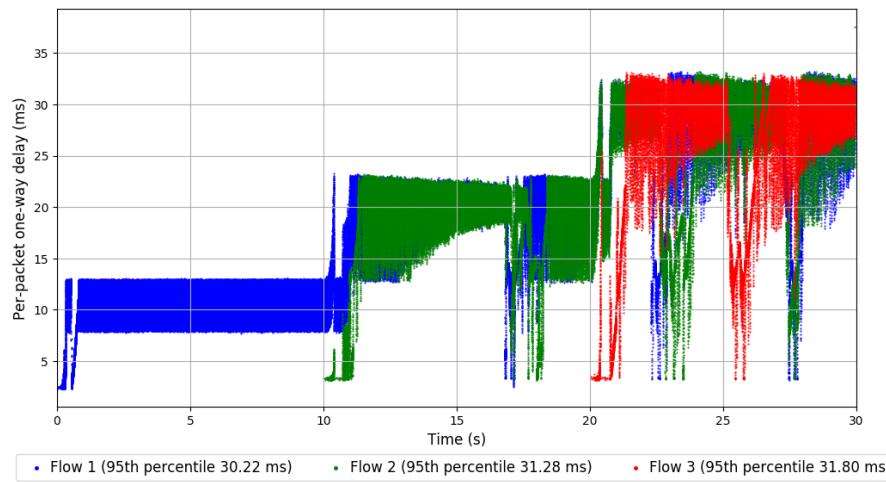
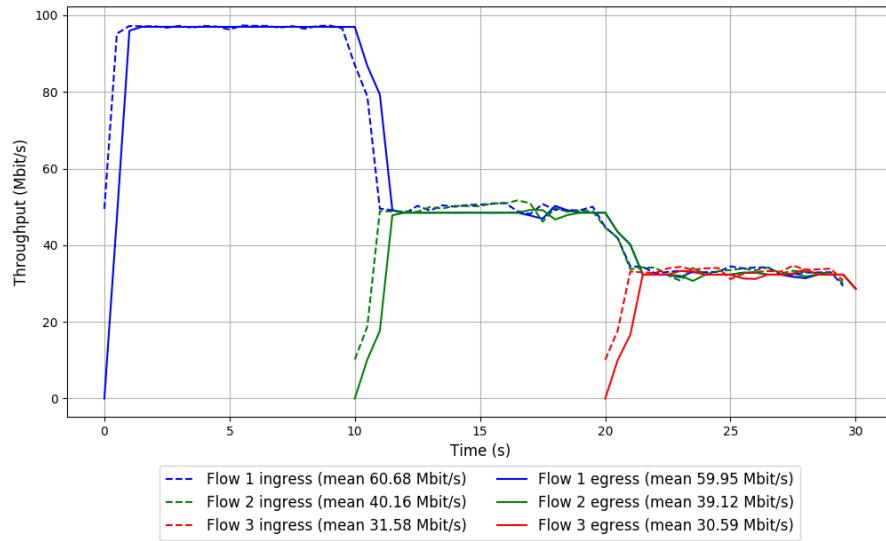


```
Run 1: Statistics of FillP

Start at: 2018-05-22 15:31:52
End at: 2018-05-22 15:32:22
Local clock offset: -6.029 ms
Remote clock offset: -2.296 ms

# Below is generated by plot.py at 2018-05-22 18:35:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 31.048 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 30.217 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 39.12 Mbit/s
95th percentile per-packet one-way delay: 31.282 ms
Loss rate: 2.65%
-- Flow 3:
Average throughput: 30.59 Mbit/s
95th percentile per-packet one-way delay: 31.803 ms
Loss rate: 3.21%
```

Run 1: Report of FillP — Data Link

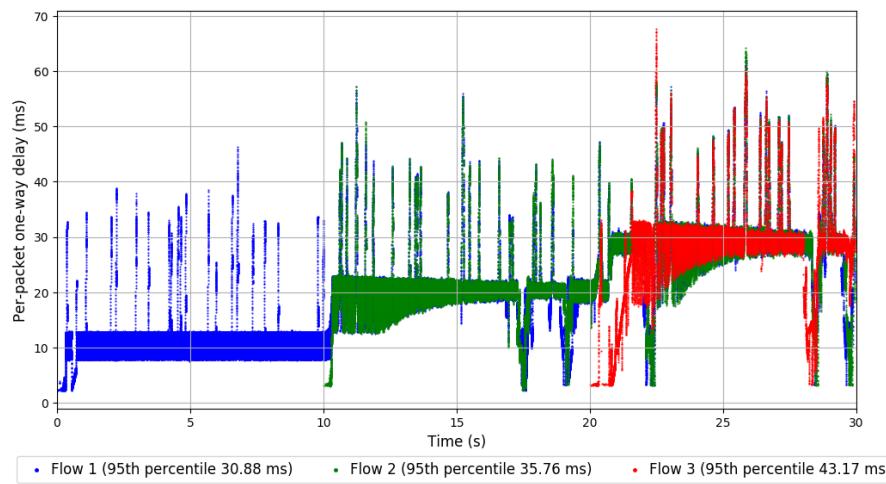
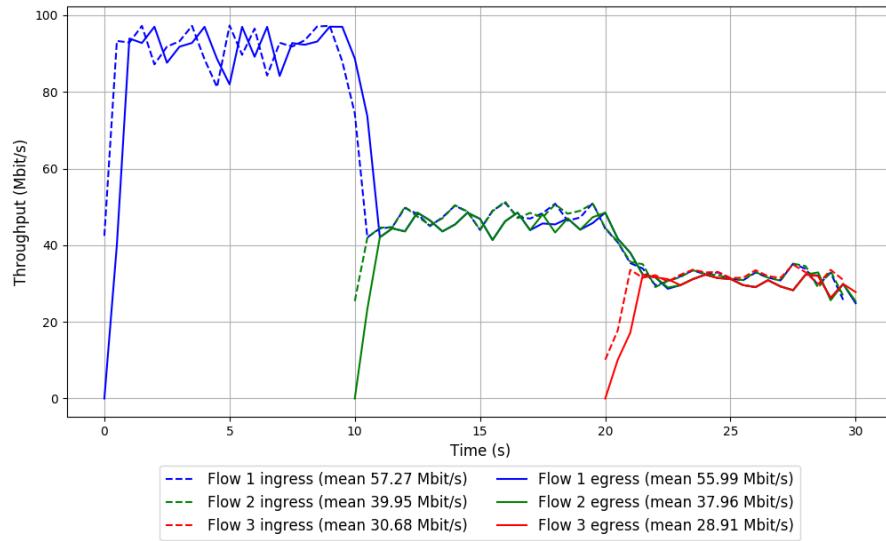


Run 2: Statistics of FillP

```
Start at: 2018-05-22 15:49:39
End at: 2018-05-22 15:50:09
Local clock offset: -6.154 ms
Remote clock offset: -2.672 ms

# Below is generated by plot.py at 2018-05-22 18:35:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.82 Mbit/s
95th percentile per-packet one-way delay: 32.200 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 30.884 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 35.759 ms
Loss rate: 5.07%
-- Flow 3:
Average throughput: 28.91 Mbit/s
95th percentile per-packet one-way delay: 43.173 ms
Loss rate: 5.95%
```

Run 2: Report of FillP — Data Link

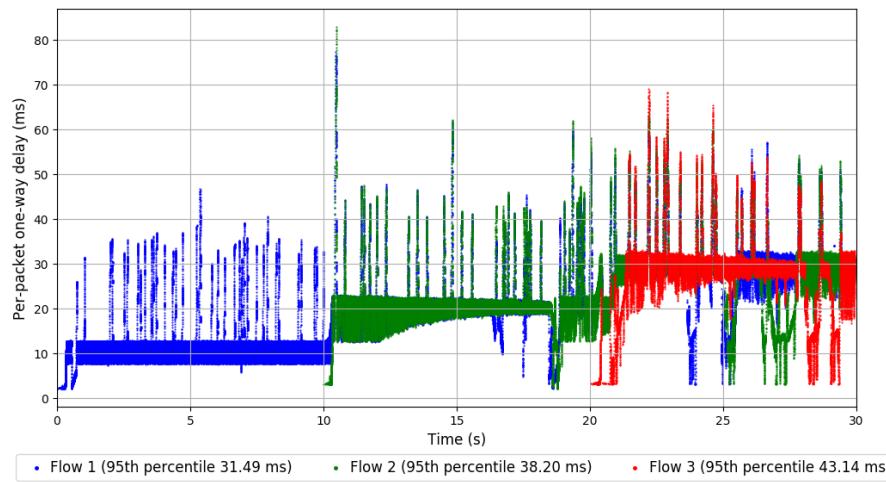
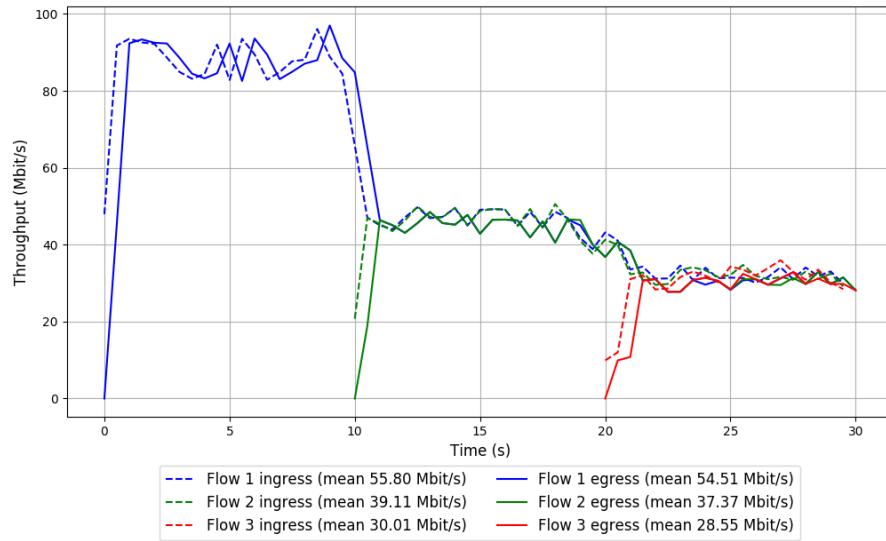


Run 3: Statistics of FillP

```
Start at: 2018-05-22 16:07:23
End at: 2018-05-22 16:07:53
Local clock offset: -6.052 ms
Remote clock offset: -2.739 ms

# Below is generated by plot.py at 2018-05-22 18:35:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.82 Mbit/s
95th percentile per-packet one-way delay: 33.994 ms
Loss rate: 3.26%
-- Flow 1:
Average throughput: 54.51 Mbit/s
95th percentile per-packet one-way delay: 31.491 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 37.37 Mbit/s
95th percentile per-packet one-way delay: 38.199 ms
Loss rate: 4.54%
-- Flow 3:
Average throughput: 28.55 Mbit/s
95th percentile per-packet one-way delay: 43.138 ms
Loss rate: 4.96%
```

Run 3: Report of FillP — Data Link

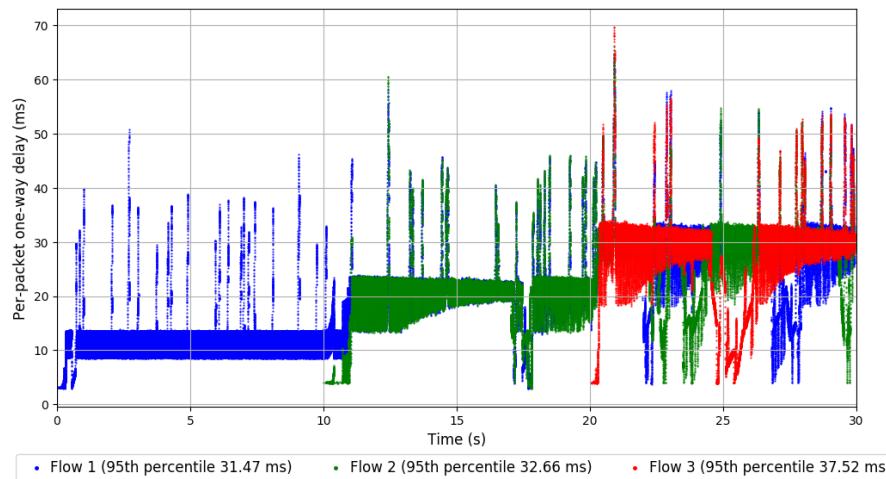
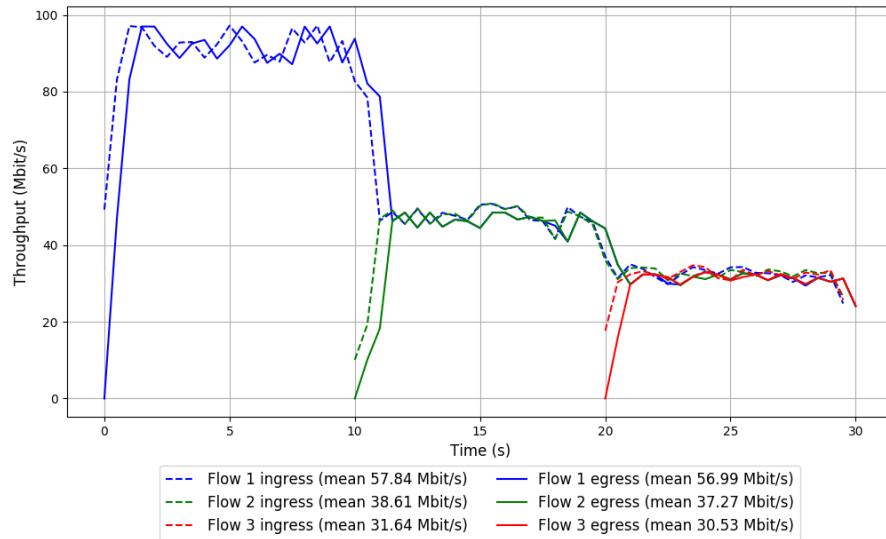


Run 4: Statistics of FillP

```
Start at: 2018-05-22 16:25:07
End at: 2018-05-22 16:25:37
Local clock offset: -5.249 ms
Remote clock offset: -7.061 ms

# Below is generated by plot.py at 2018-05-22 18:35:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.90 Mbit/s
95th percentile per-packet one-way delay: 32.240 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 56.99 Mbit/s
95th percentile per-packet one-way delay: 31.467 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 32.664 ms
Loss rate: 3.45%
-- Flow 3:
Average throughput: 30.53 Mbit/s
95th percentile per-packet one-way delay: 37.516 ms
Loss rate: 3.64%
```

Run 4: Report of FillP — Data Link

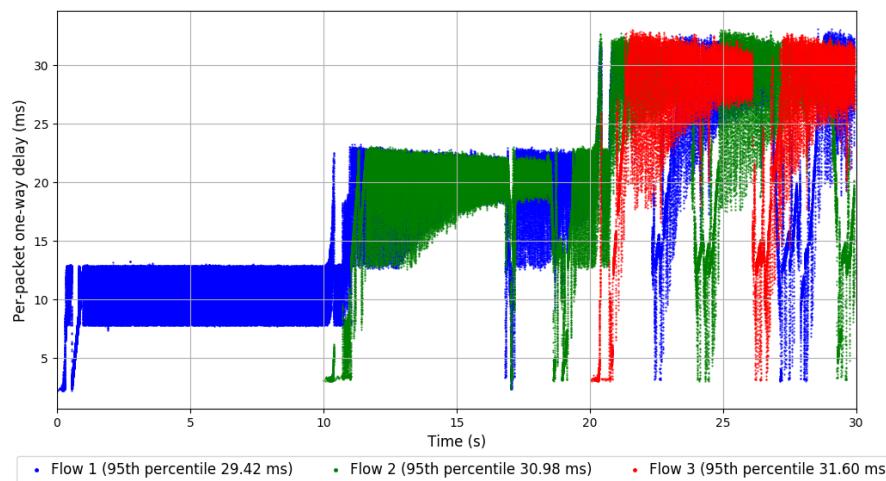
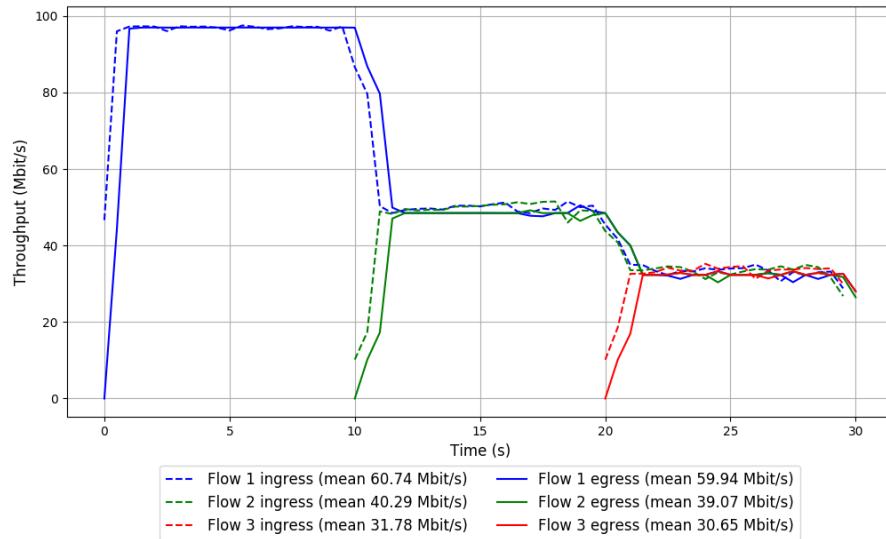


Run 5: Statistics of FillP

```
Start at: 2018-05-22 16:42:54
End at: 2018-05-22 16:43:24
Local clock offset: -5.681 ms
Remote clock offset: -8.843 ms

# Below is generated by plot.py at 2018-05-22 18:36:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 30.676 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 59.94 Mbit/s
95th percentile per-packet one-way delay: 29.420 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 30.983 ms
Loss rate: 3.02%
-- Flow 3:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 31.604 ms
Loss rate: 3.70%
```

Run 5: Report of FillP — Data Link

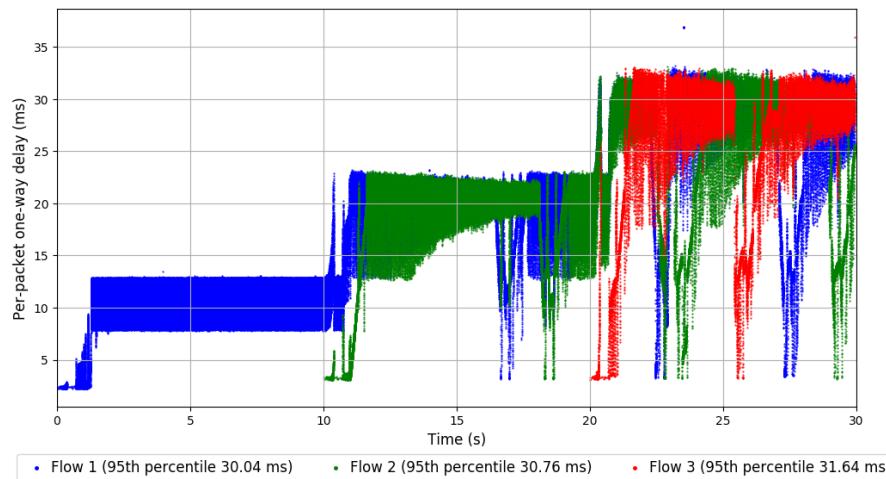
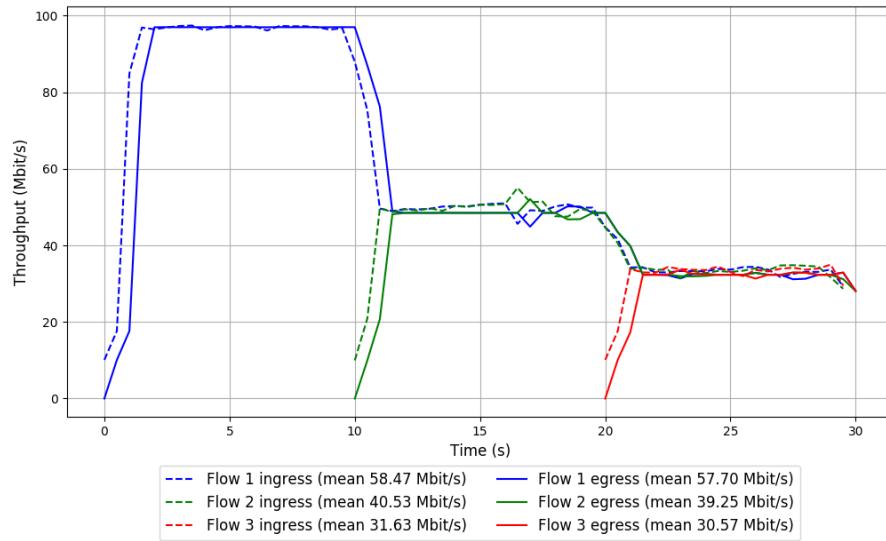


Run 6: Statistics of FillP

```
Start at: 2018-05-22 17:00:46
End at: 2018-05-22 17:01:16
Local clock offset: -5.772 ms
Remote clock offset: -3.748 ms

# Below is generated by plot.py at 2018-05-22 18:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 30.777 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 30.043 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 39.25 Mbit/s
95th percentile per-packet one-way delay: 30.758 ms
Loss rate: 3.13%
-- Flow 3:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 31.642 ms
Loss rate: 3.47%
```

Run 6: Report of FillP — Data Link

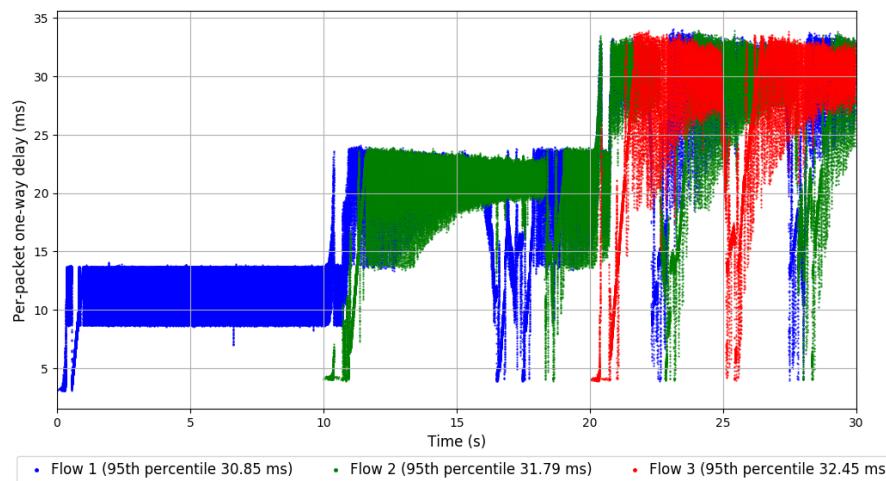
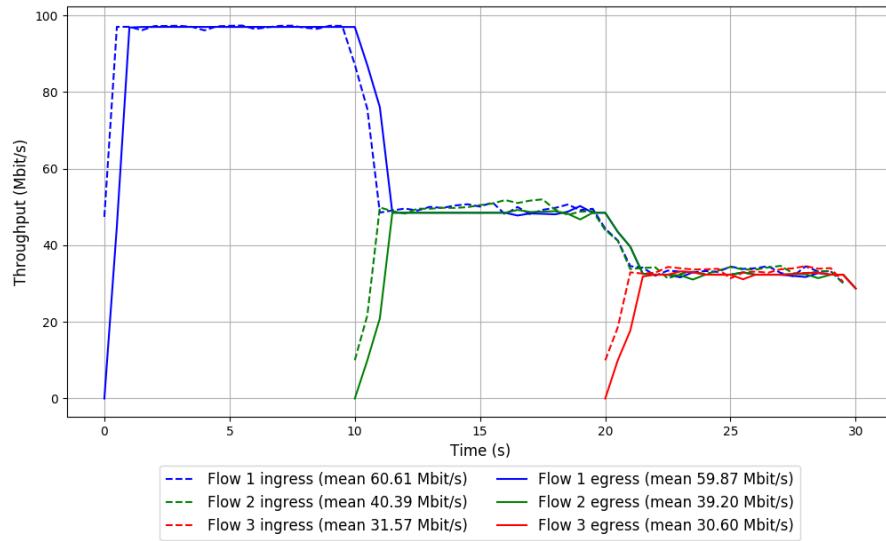


Run 7: Statistics of FillP

```
Start at: 2018-05-22 17:18:37
End at: 2018-05-22 17:19:07
Local clock offset: -5.264 ms
Remote clock offset: -2.23 ms

# Below is generated by plot.py at 2018-05-22 18:36:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 31.651 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 30.850 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 31.788 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 30.60 Mbit/s
95th percentile per-packet one-way delay: 32.454 ms
Loss rate: 3.26%
```

Run 7: Report of FillP — Data Link

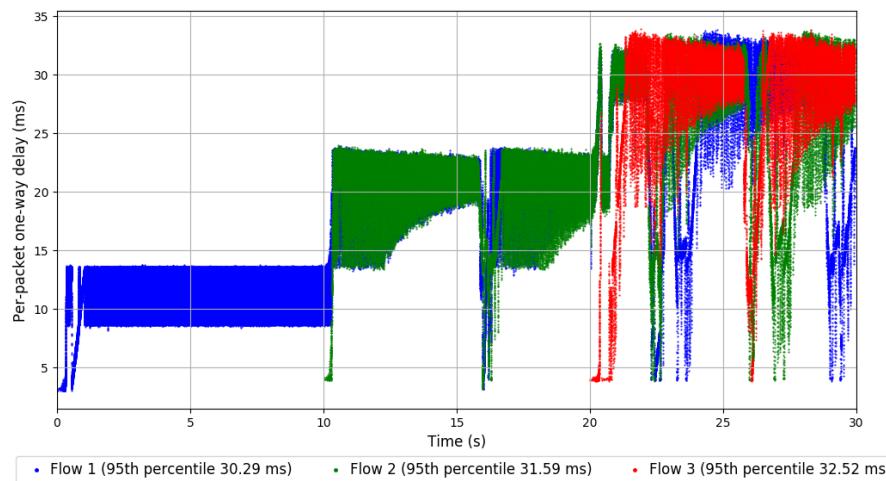
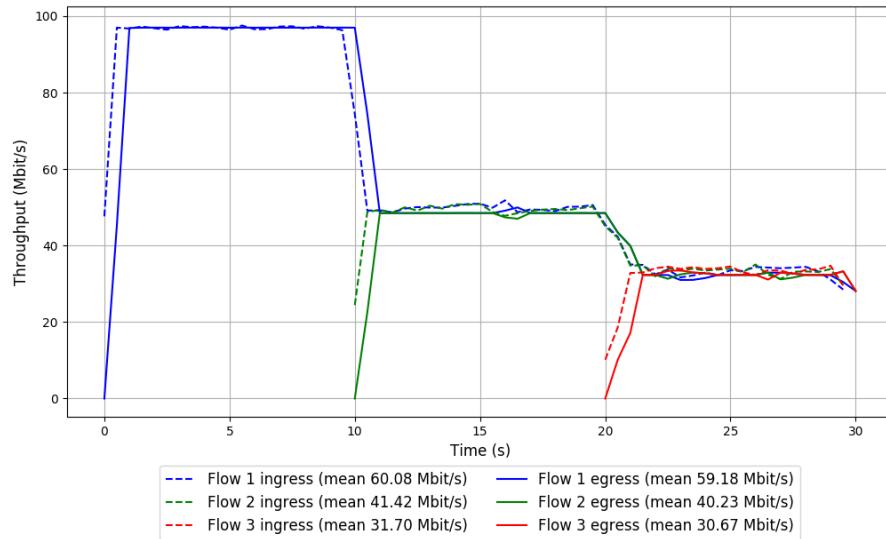


Run 8: Statistics of FillP

```
Start at: 2018-05-22 17:36:28
End at: 2018-05-22 17:36:58
Local clock offset: -5.225 ms
Remote clock offset: -1.947 ms

# Below is generated by plot.py at 2018-05-22 18:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 31.472 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 59.18 Mbit/s
95th percentile per-packet one-way delay: 30.294 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 40.23 Mbit/s
95th percentile per-packet one-way delay: 31.587 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 30.67 Mbit/s
95th percentile per-packet one-way delay: 32.517 ms
Loss rate: 3.41%
```

Run 8: Report of FillP — Data Link

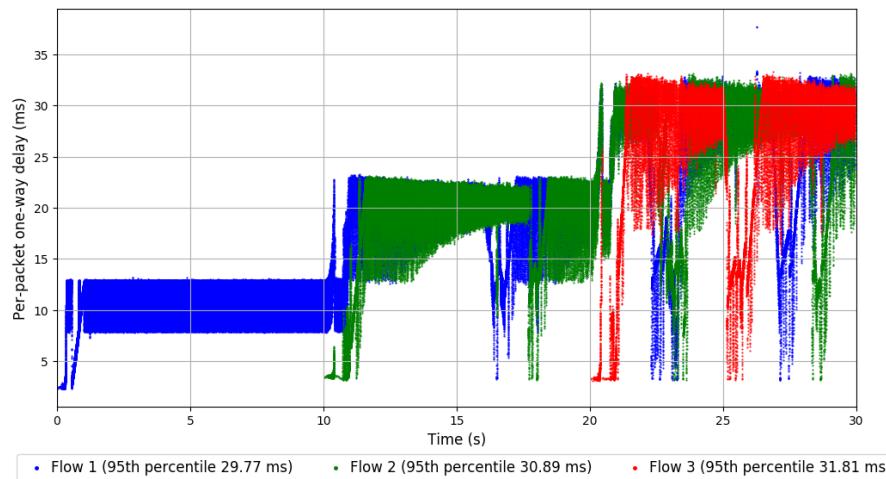
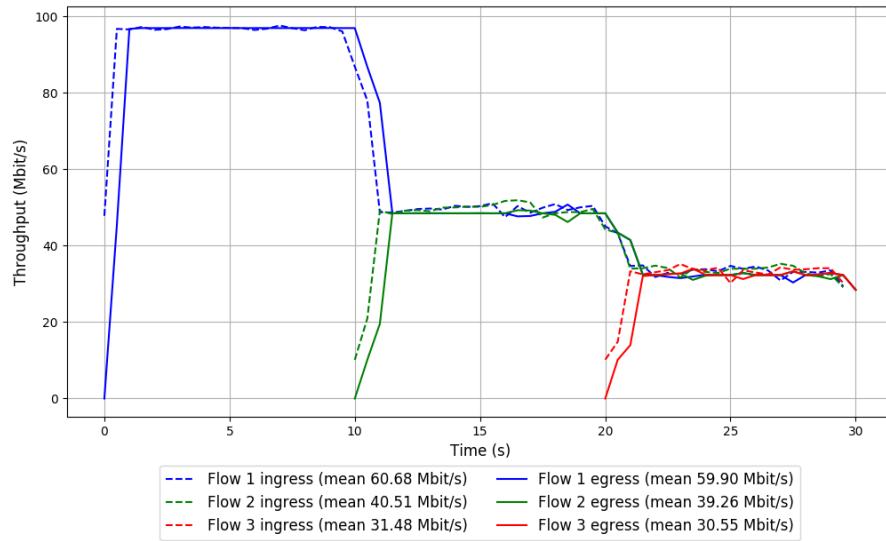


Run 9: Statistics of FillP

```
Start at: 2018-05-22 17:54:19
End at: 2018-05-22 17:54:49
Local clock offset: -5.968 ms
Remote clock offset: -1.466 ms

# Below is generated by plot.py at 2018-05-22 18:36:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 30.817 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 59.90 Mbit/s
95th percentile per-packet one-way delay: 29.765 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 30.890 ms
Loss rate: 3.14%
-- Flow 3:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 31.814 ms
Loss rate: 3.10%
```

Run 9: Report of FillP — Data Link

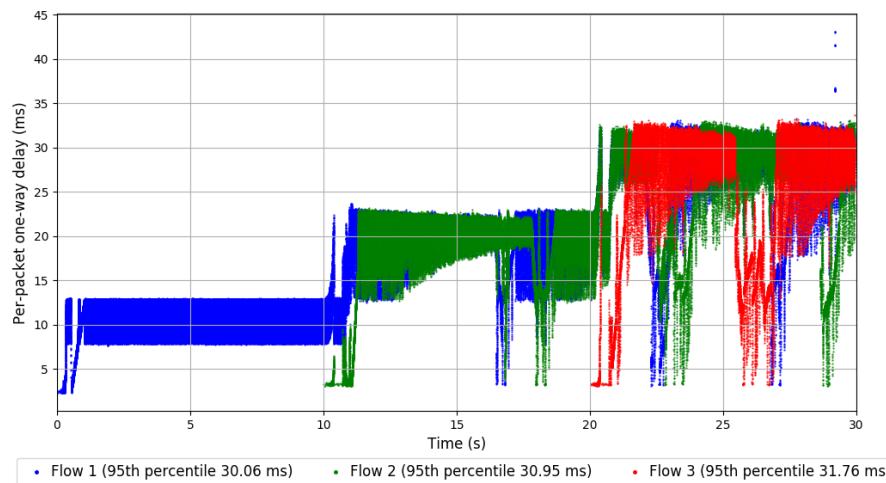
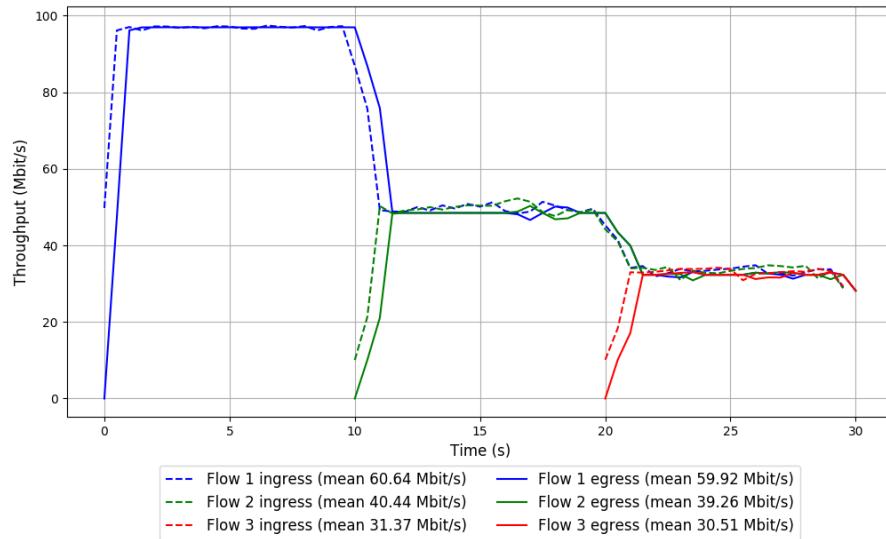


Run 10: Statistics of FillP

```
Start at: 2018-05-22 18:12:10
End at: 2018-05-22 18:12:40
Local clock offset: -5.798 ms
Remote clock offset: -3.118 ms

# Below is generated by plot.py at 2018-05-22 18:36:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.14 Mbit/s
95th percentile per-packet one-way delay: 30.840 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 59.92 Mbit/s
95th percentile per-packet one-way delay: 30.061 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 30.949 ms
Loss rate: 3.02%
-- Flow 3:
Average throughput: 30.51 Mbit/s
95th percentile per-packet one-way delay: 31.758 ms
Loss rate: 2.84%
```

Run 10: Report of FillP — Data Link

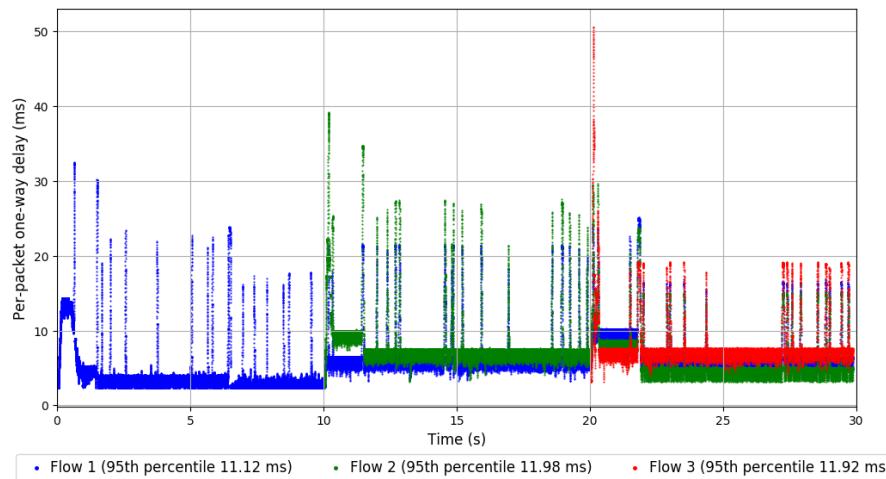
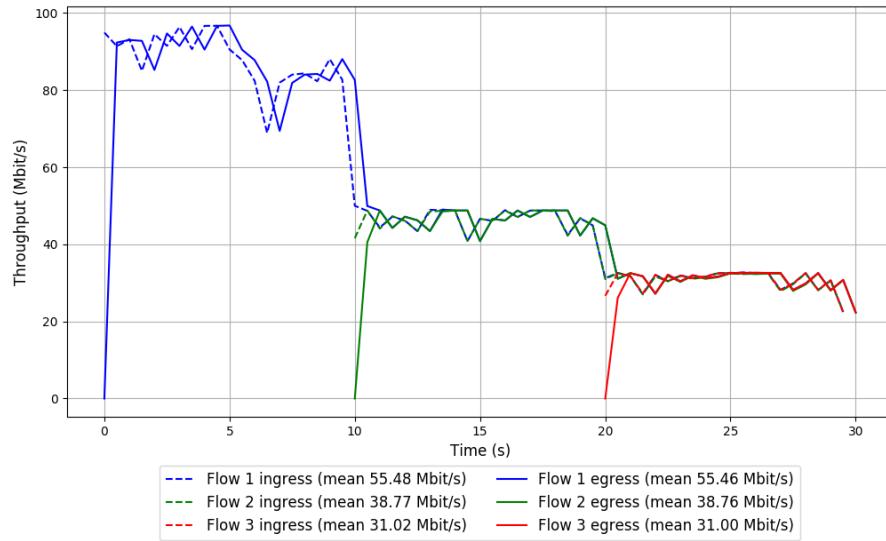


Run 1: Statistics of Indigo

```
Start at: 2018-05-22 15:45:08
End at: 2018-05-22 15:45:38
Local clock offset: -6.143 ms
Remote clock offset: -2.505 ms

# Below is generated by plot.py at 2018-05-22 18:36:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.42 Mbit/s
95th percentile per-packet one-way delay: 11.390 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 55.46 Mbit/s
95th percentile per-packet one-way delay: 11.116 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.76 Mbit/s
95th percentile per-packet one-way delay: 11.981 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 11.918 ms
Loss rate: 0.09%
```

Run 1: Report of Indigo — Data Link

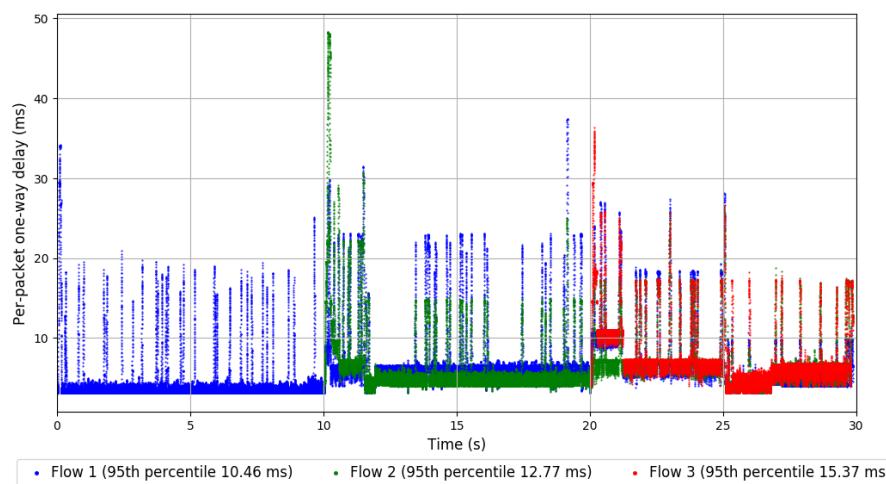
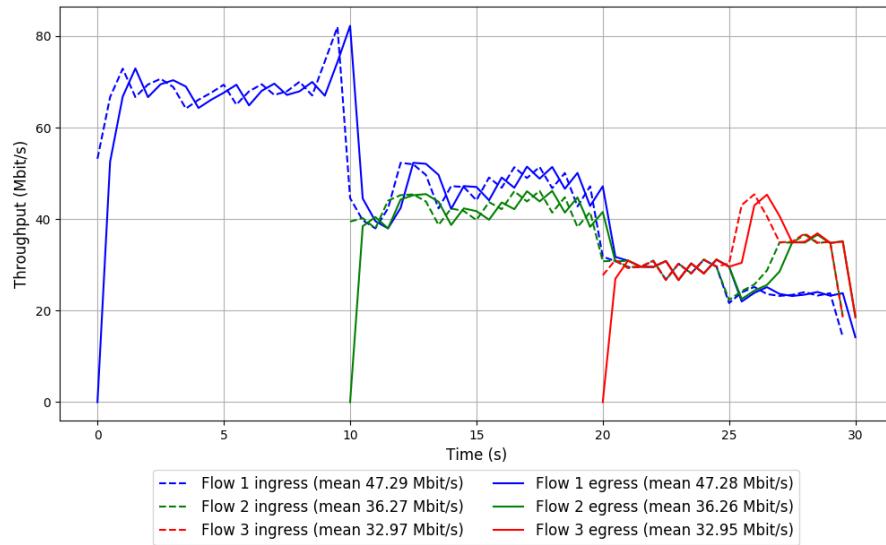


Run 2: Statistics of Indigo

```
Start at: 2018-05-22 16:02:52
End at: 2018-05-22 16:03:22
Local clock offset: -5.333 ms
Remote clock offset: -2.777 ms

# Below is generated by plot.py at 2018-05-22 18:36:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 11.401 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 10.462 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 12.771 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 15.373 ms
Loss rate: 0.10%
```

Run 2: Report of Indigo — Data Link

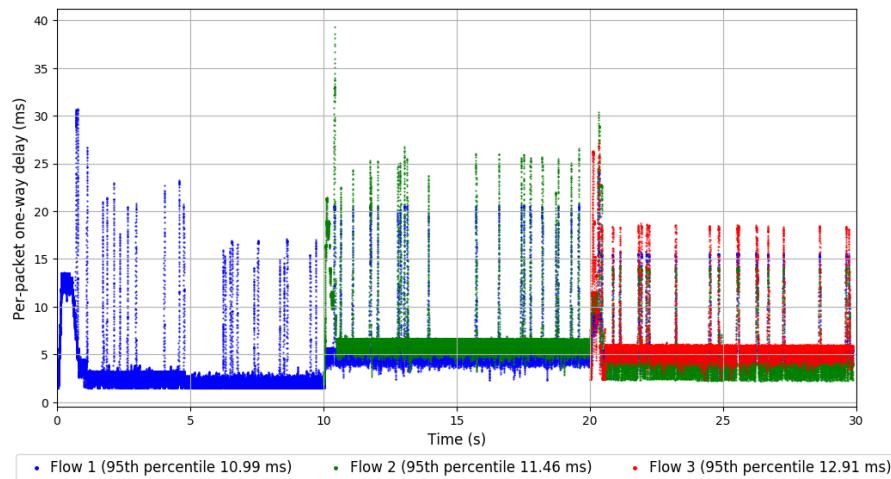
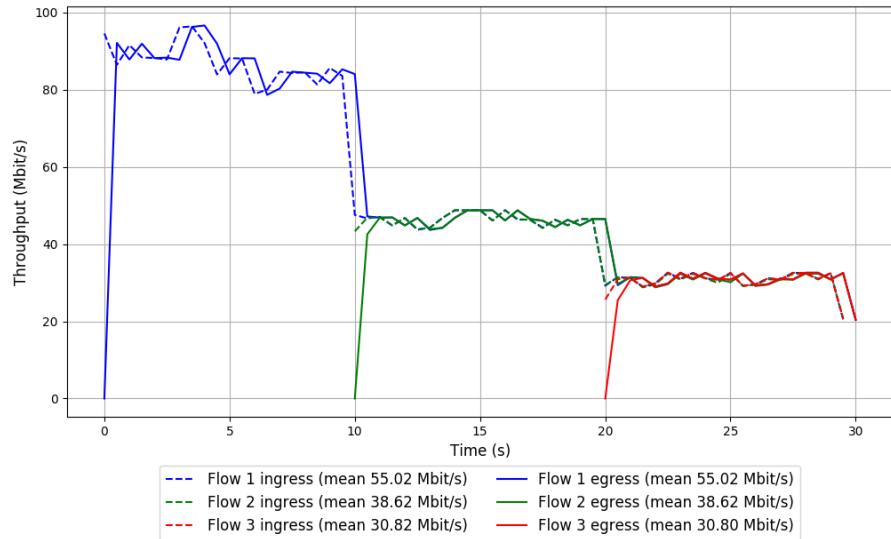


Run 3: Statistics of Indigo

```
Start at: 2018-05-22 16:20:35
End at: 2018-05-22 16:21:05
Local clock offset: -6.795 ms
Remote clock offset: -6.032 ms

# Below is generated by plot.py at 2018-05-22 18:37:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.85 Mbit/s
95th percentile per-packet one-way delay: 11.433 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 10.993 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 11.464 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 12.908 ms
Loss rate: 0.09%
```

Run 3: Report of Indigo — Data Link

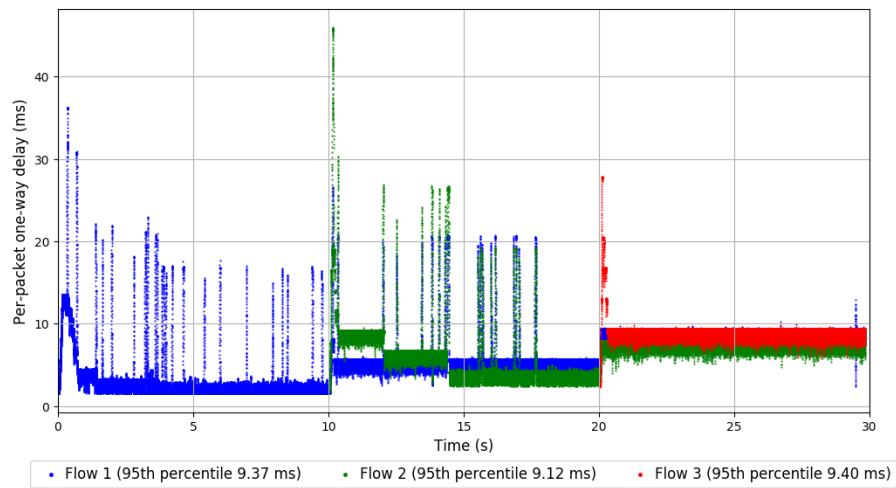
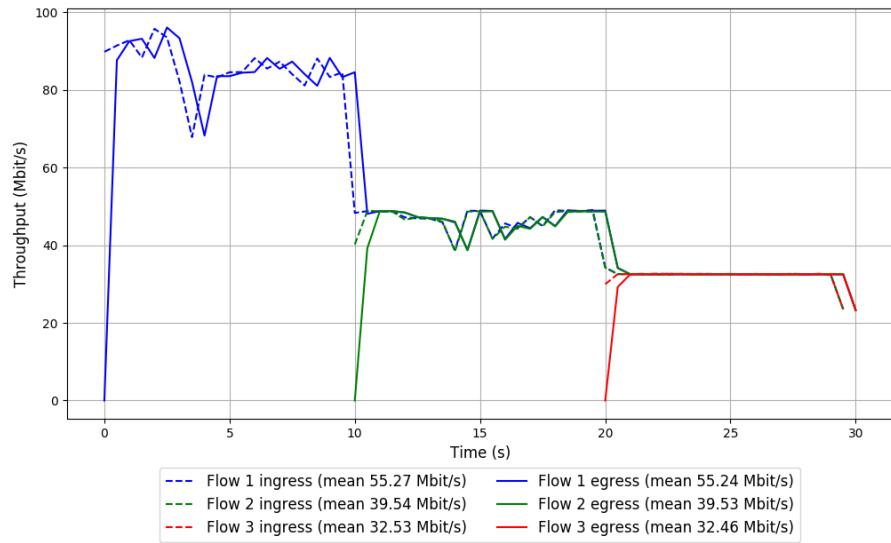


Run 4: Statistics of Indigo

```
Start at: 2018-05-22 16:38:21
End at: 2018-05-22 16:38:51
Local clock offset: -6.567 ms
Remote clock offset: -8.603 ms

# Below is generated by plot.py at 2018-05-22 18:37:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 9.368 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 9.366 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 9.117 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 9.399 ms
Loss rate: 0.26%
```

Run 4: Report of Indigo — Data Link

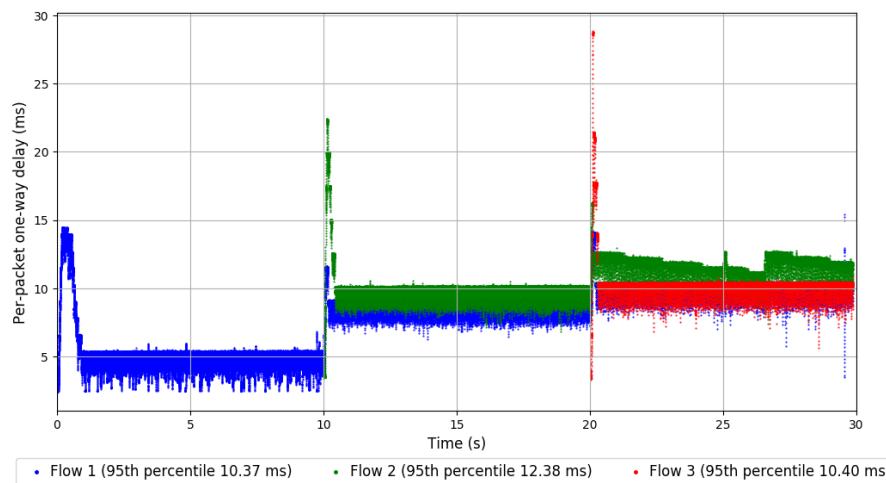
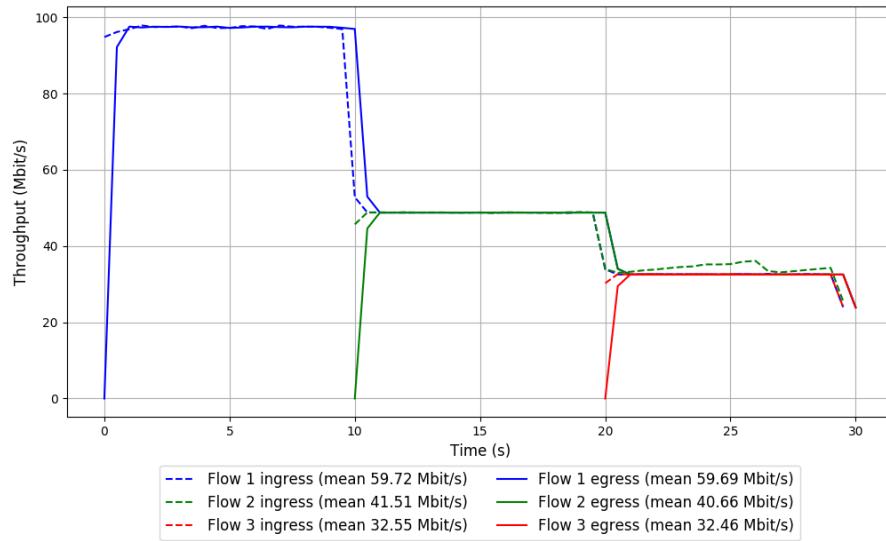


Run 5: Statistics of Indigo

```
Start at: 2018-05-22 16:56:11
End at: 2018-05-22 16:56:41
Local clock offset: -5.575 ms
Remote clock offset: -4.737 ms

# Below is generated by plot.py at 2018-05-22 18:37:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 12.080 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 10.373 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.66 Mbit/s
95th percentile per-packet one-way delay: 12.380 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 32.46 Mbit/s
95th percentile per-packet one-way delay: 10.400 ms
Loss rate: 0.30%
```

Run 5: Report of Indigo — Data Link

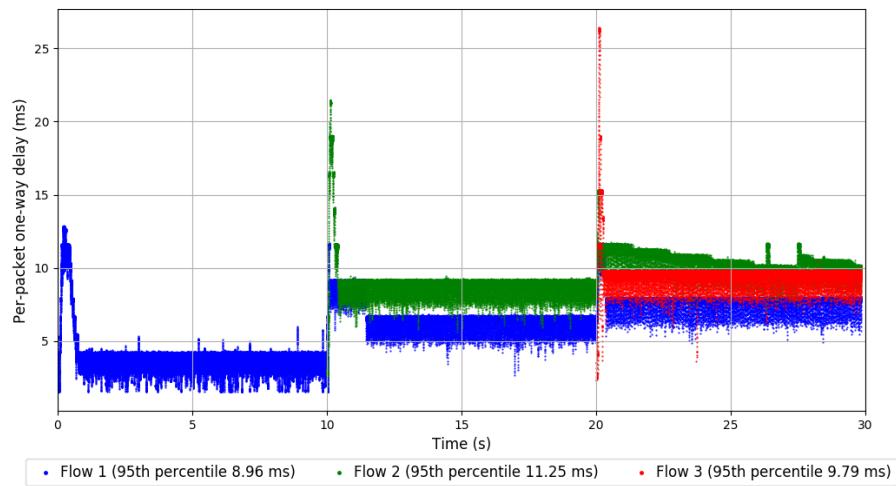
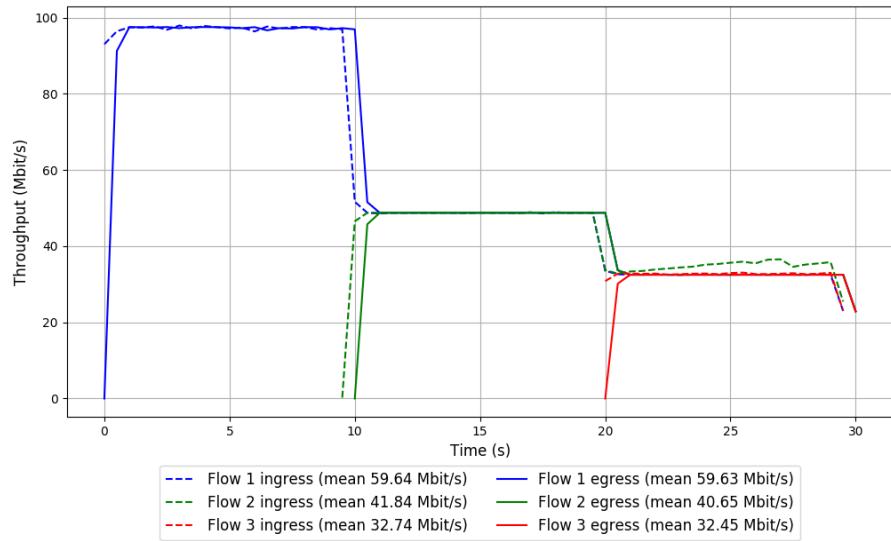


Run 6: Statistics of Indigo

```
Start at: 2018-05-22 17:14:03
End at: 2018-05-22 17:14:33
Local clock offset: -6.848 ms
Remote clock offset: -2.416 ms

# Below is generated by plot.py at 2018-05-22 18:37:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 10.713 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 8.964 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 11.253 ms
Loss rate: 2.85%
-- Flow 3:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 9.785 ms
Loss rate: 0.90%
```

Run 6: Report of Indigo — Data Link

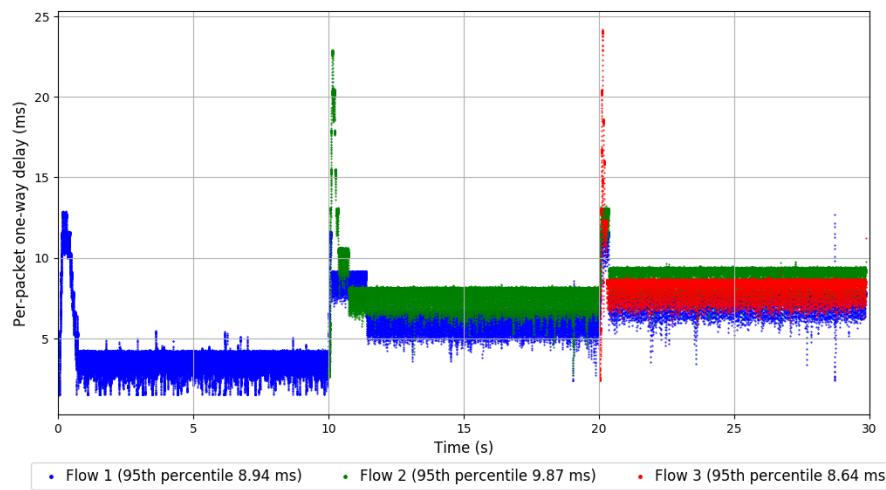
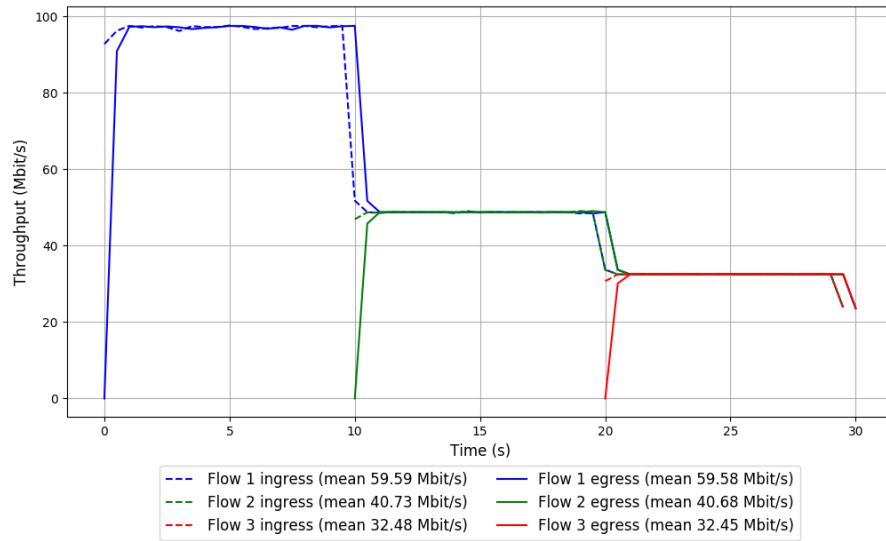


Run 7: Statistics of Indigo

```
Start at: 2018-05-22 17:31:54
End at: 2018-05-22 17:32:24
Local clock offset: -6.839 ms
Remote clock offset: -2.049 ms

# Below is generated by plot.py at 2018-05-22 18:37:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 9.301 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 59.58 Mbit/s
95th percentile per-packet one-way delay: 8.936 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 9.867 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 8.638 ms
Loss rate: 0.10%
```

Run 7: Report of Indigo — Data Link

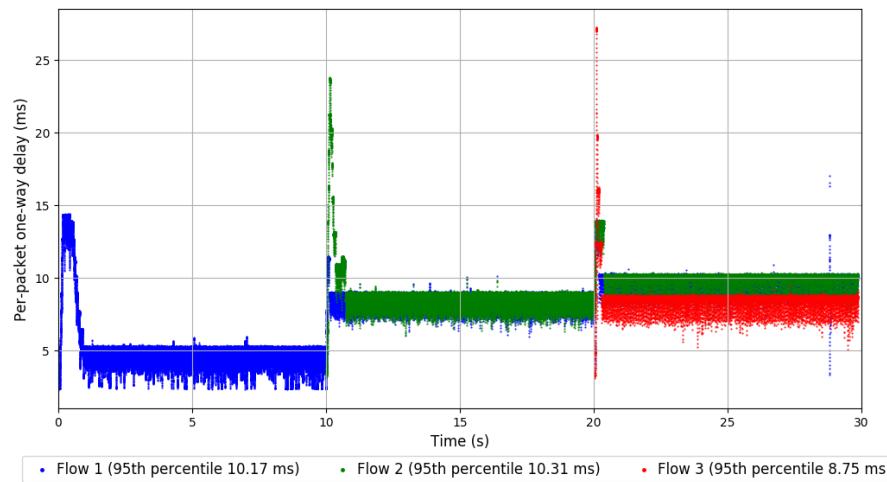
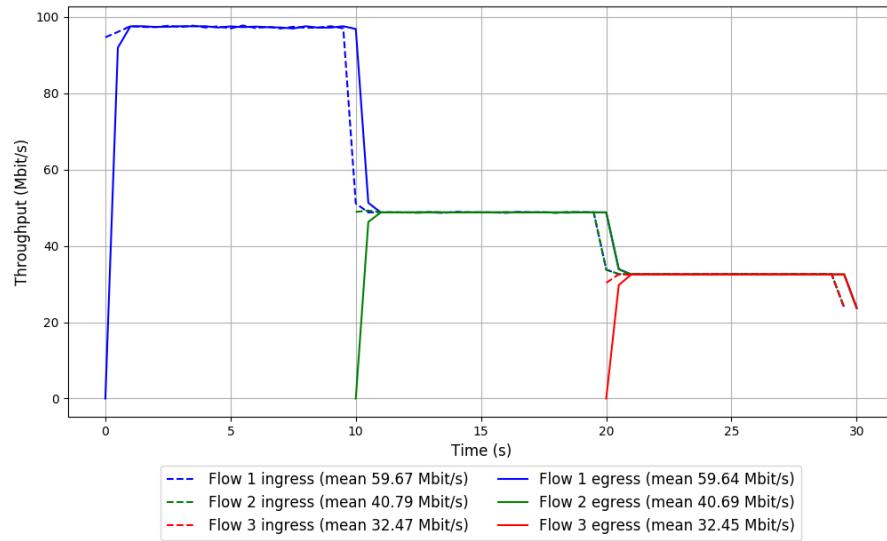


Run 8: Statistics of Indigo

```
Start at: 2018-05-22 17:49:45
End at: 2018-05-22 17:50:15
Local clock offset: -6.042 ms
Remote clock offset: -1.61 ms

# Below is generated by plot.py at 2018-05-22 18:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 10.193 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 59.64 Mbit/s
95th percentile per-packet one-way delay: 10.173 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 10.309 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 8.751 ms
Loss rate: 0.10%
```

Run 8: Report of Indigo — Data Link

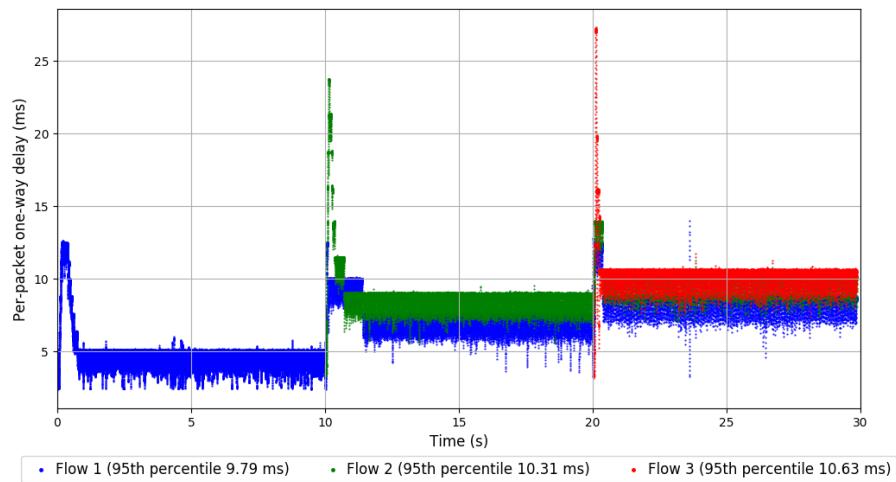
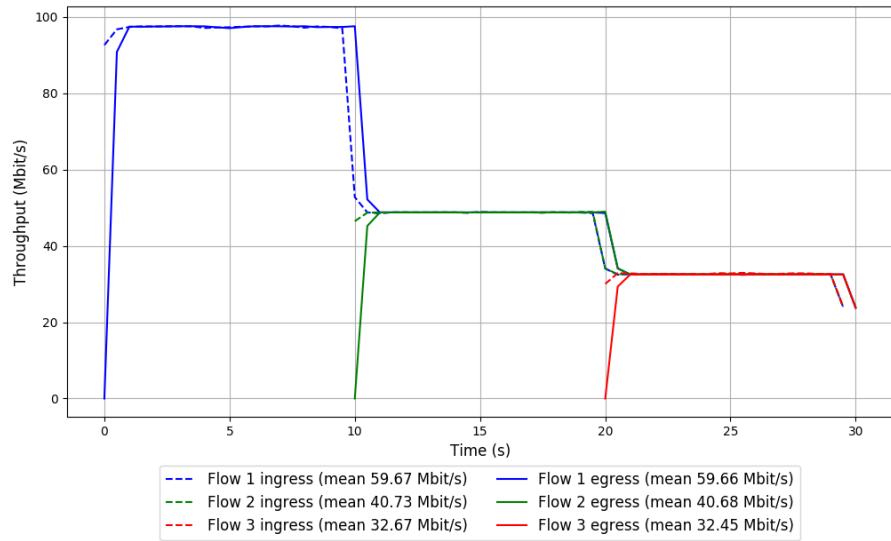


Run 9: Statistics of Indigo

```
Start at: 2018-05-22 18:07:36
End at: 2018-05-22 18:08:06
Local clock offset: -5.847 ms
Remote clock offset: -2.947 ms

# Below is generated by plot.py at 2018-05-22 18:38:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 10.553 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 59.66 Mbit/s
95th percentile per-packet one-way delay: 9.786 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 10.311 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 10.633 ms
Loss rate: 0.73%
```

Run 9: Report of Indigo — Data Link

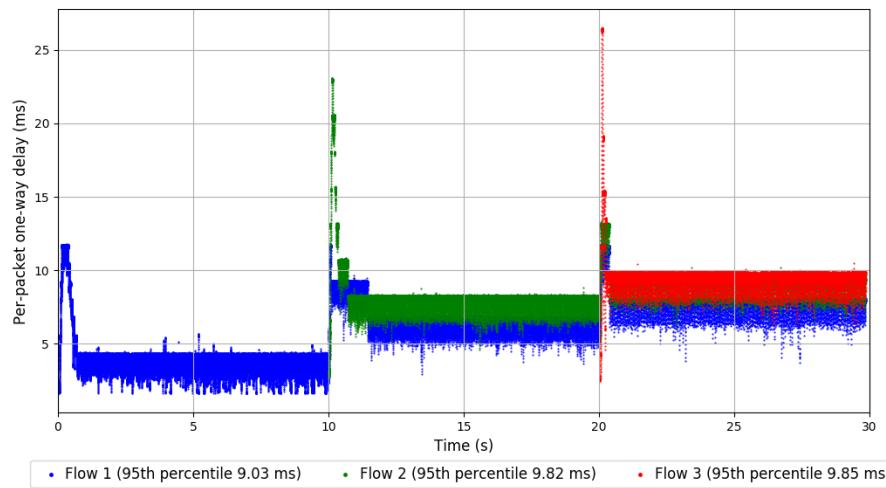
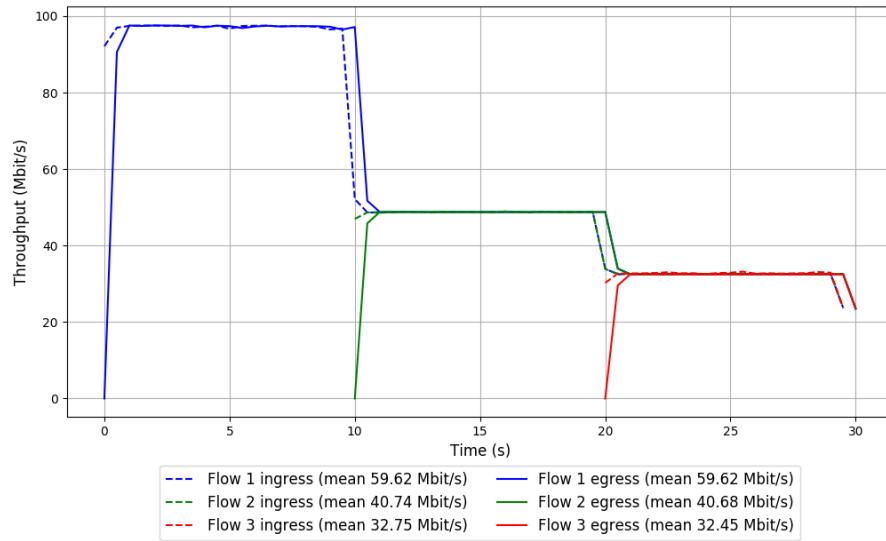


Run 10: Statistics of Indigo

```
Start at: 2018-05-22 18:25:26
End at: 2018-05-22 18:25:56
Local clock offset: -6.495 ms
Remote clock offset: -3.517 ms

# Below is generated by plot.py at 2018-05-22 18:38:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 9.760 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 59.62 Mbit/s
95th percentile per-packet one-way delay: 9.027 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 9.821 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 9.848 ms
Loss rate: 0.98%
```

Run 10: Report of Indigo — Data Link

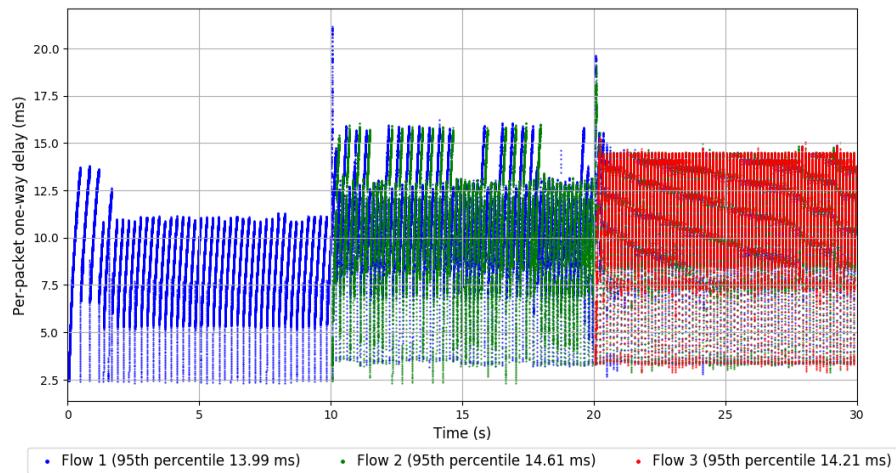
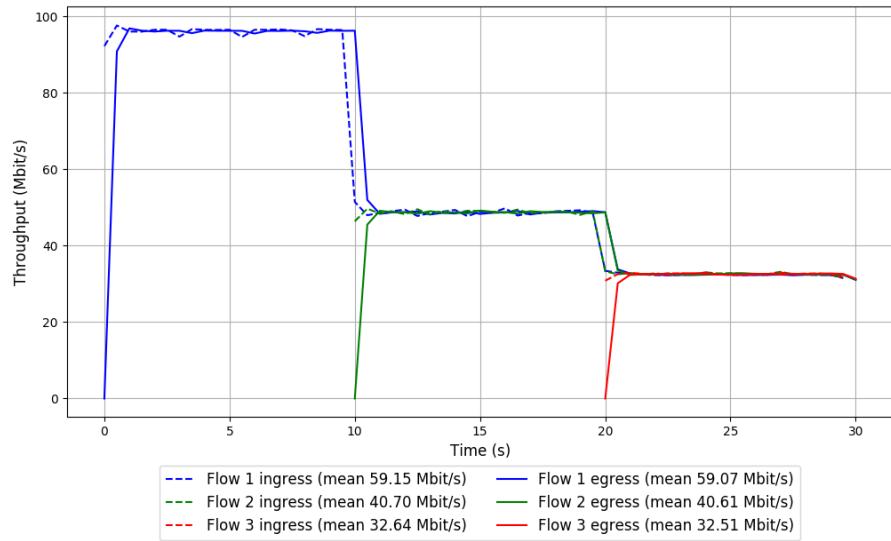


Run 1: Statistics of LEDBAT

```
Start at: 2018-05-22 15:37:28
End at: 2018-05-22 15:37:58
Local clock offset: -6.084 ms
Remote clock offset: -2.037 ms

# Below is generated by plot.py at 2018-05-22 18:38:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 14.203 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 13.987 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.61 Mbit/s
95th percentile per-packet one-way delay: 14.612 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 32.51 Mbit/s
95th percentile per-packet one-way delay: 14.210 ms
Loss rate: 0.42%
```

Run 1: Report of LEDBAT — Data Link

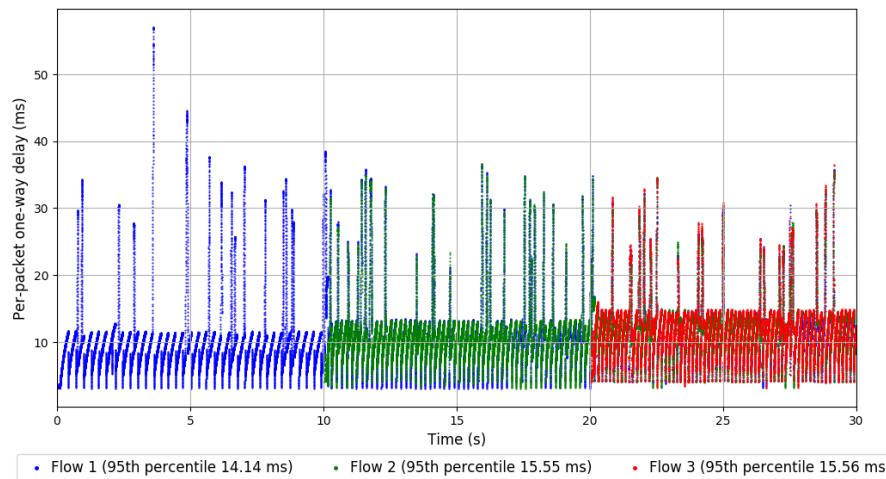
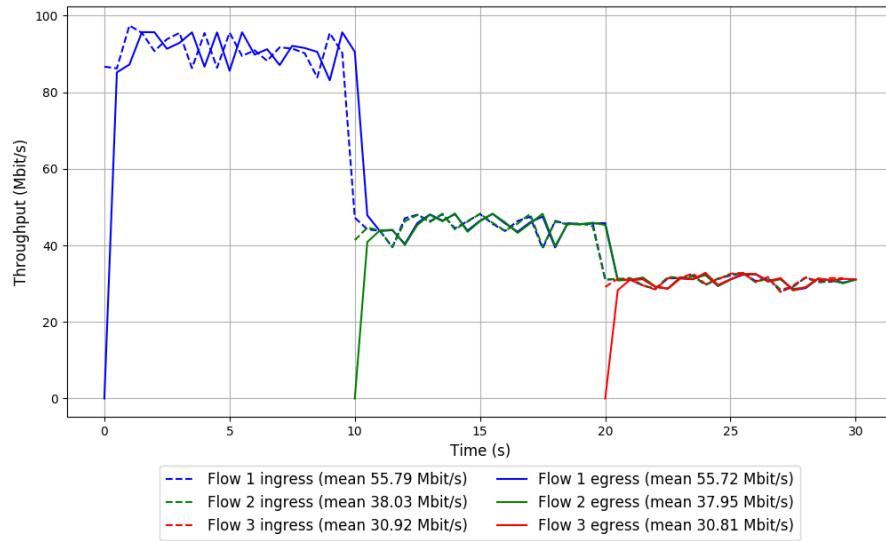


Run 2: Statistics of LEDBAT

```
Start at: 2018-05-22 15:55:12
End at: 2018-05-22 15:55:42
Local clock offset: -5.413 ms
Remote clock offset: -2.847 ms

# Below is generated by plot.py at 2018-05-22 18:38:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 14.478 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 55.72 Mbit/s
95th percentile per-packet one-way delay: 14.142 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 15.552 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 30.81 Mbit/s
95th percentile per-packet one-way delay: 15.556 ms
Loss rate: 0.40%
```

Run 2: Report of LEDBAT — Data Link

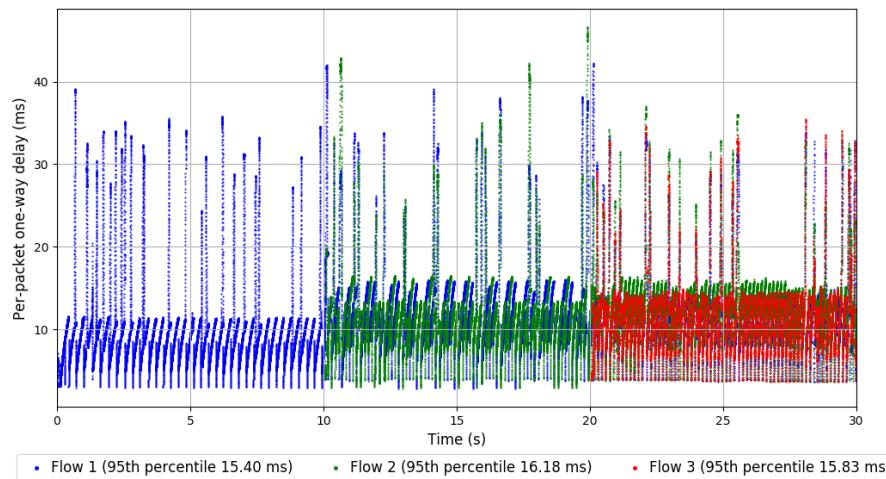
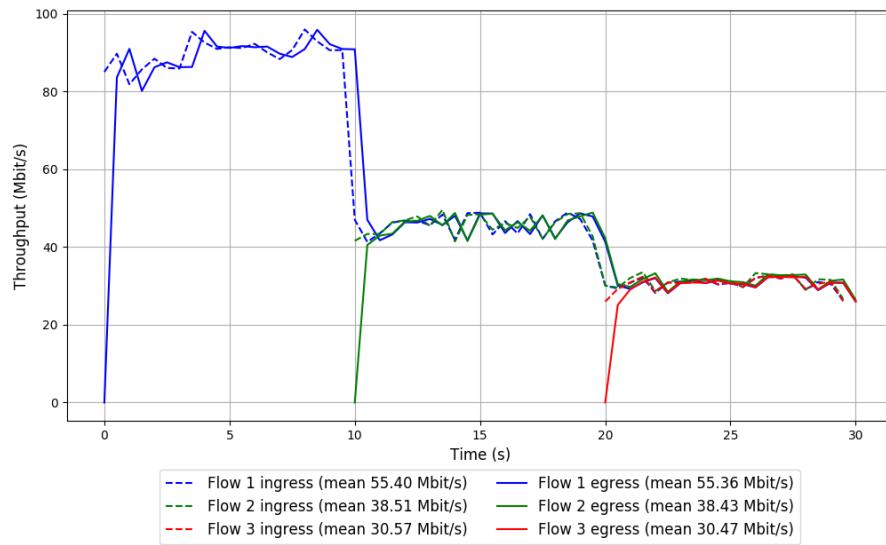


Run 3: Statistics of LEDBAT

```
Start at: 2018-05-22 16:12:55
End at: 2018-05-22 16:13:25
Local clock offset: -5.266 ms
Remote clock offset: -3.028 ms

# Below is generated by plot.py at 2018-05-22 18:38:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 15.801 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 15.397 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 16.180 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 30.47 Mbit/s
95th percentile per-packet one-way delay: 15.832 ms
Loss rate: 0.37%
```

Run 3: Report of LEDBAT — Data Link

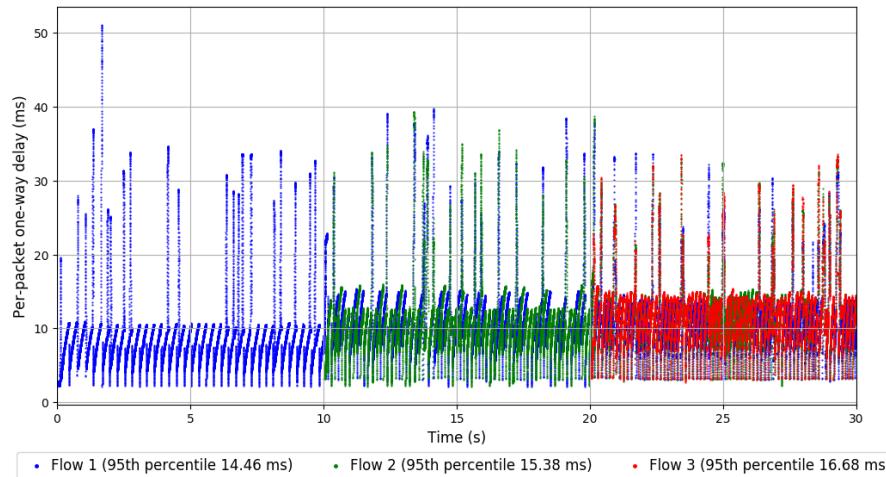
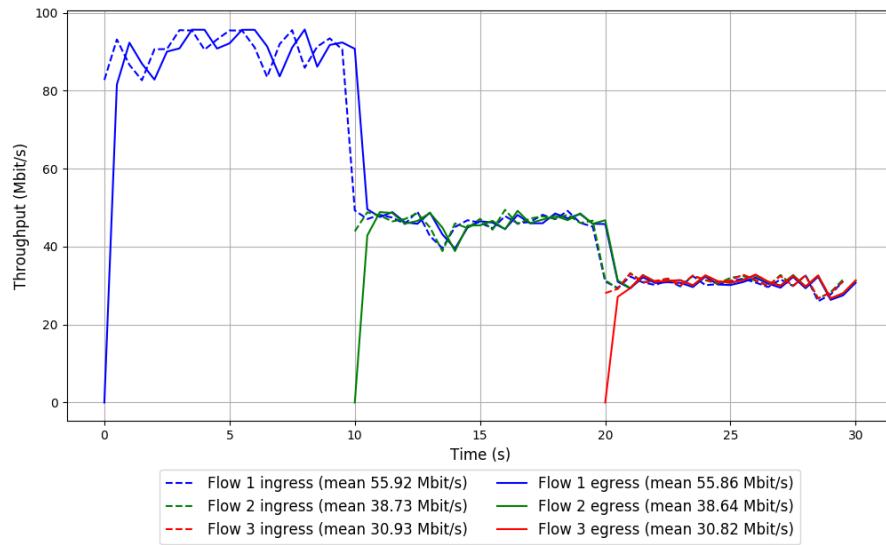


Run 4: Statistics of LEDBAT

```
Start at: 2018-05-22 16:30:41
End at: 2018-05-22 16:31:11
Local clock offset: -5.892 ms
Remote clock offset: -7.835 ms

# Below is generated by plot.py at 2018-05-22 18:38:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 14.909 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 14.457 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 15.380 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 30.82 Mbit/s
95th percentile per-packet one-way delay: 16.680 ms
Loss rate: 0.34%
```

Run 4: Report of LEDBAT — Data Link

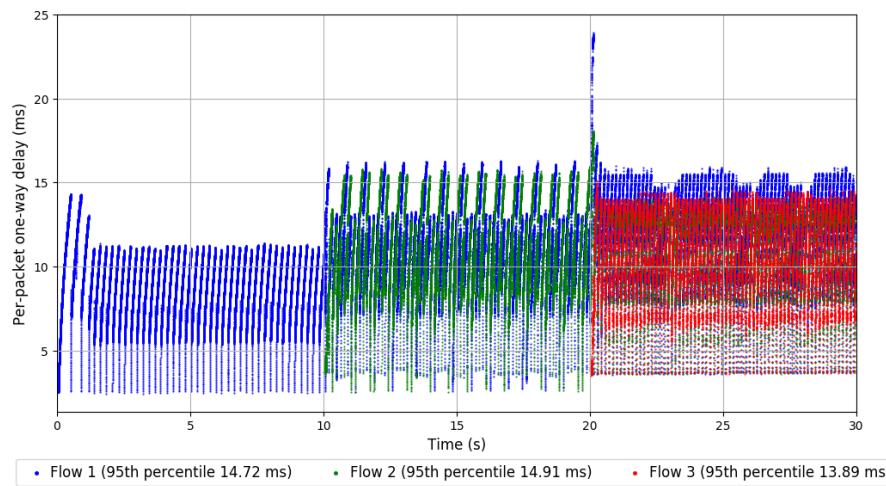
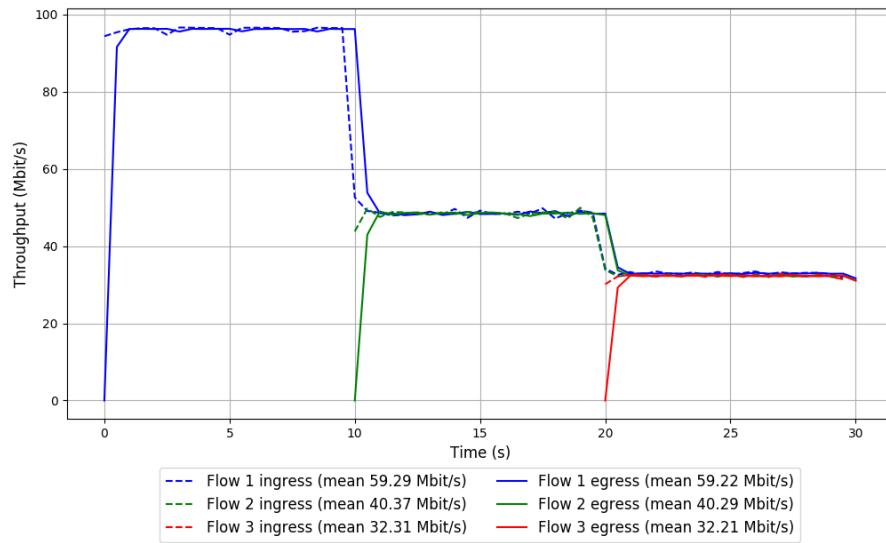


Run 5: Statistics of LEDBAT

```
Start at: 2018-05-22 16:48:31
End at: 2018-05-22 16:49:01
Local clock offset: -5.628 ms
Remote clock offset: -7.85 ms

# Below is generated by plot.py at 2018-05-22 18:38:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.75 Mbit/s
95th percentile per-packet one-way delay: 14.693 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 14.724 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.29 Mbit/s
95th percentile per-packet one-way delay: 14.914 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 13.887 ms
Loss rate: 0.38%
```

Run 5: Report of LEDBAT — Data Link

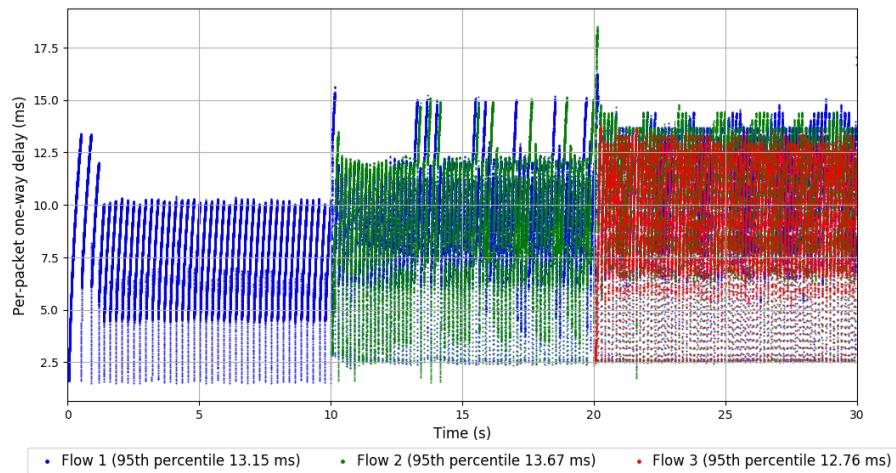
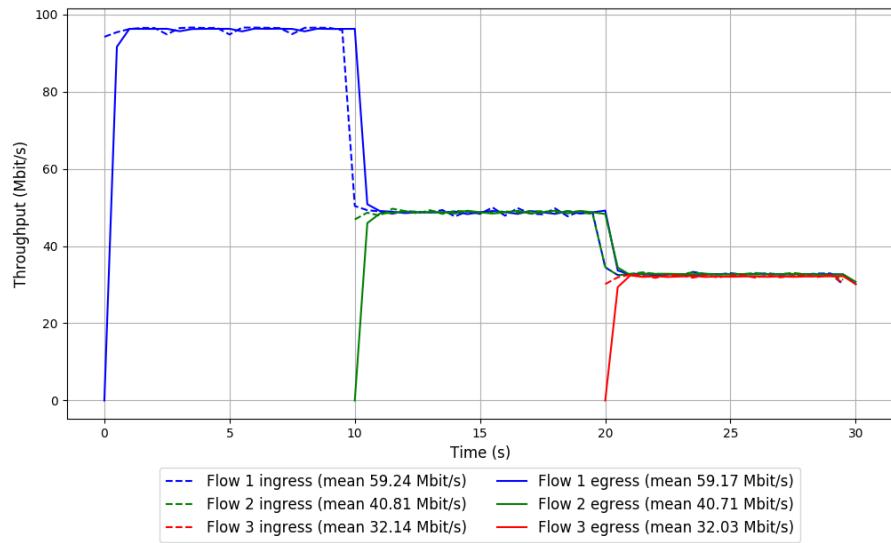


Run 6: Statistics of LEDBAT

```
Start at: 2018-05-22 17:06:22
End at: 2018-05-22 17:06:52
Local clock offset: -6.721 ms
Remote clock offset: -3.093 ms

# Below is generated by plot.py at 2018-05-22 18:39:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 13.261 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.17 Mbit/s
95th percentile per-packet one-way delay: 13.155 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 13.669 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 32.03 Mbit/s
95th percentile per-packet one-way delay: 12.759 ms
Loss rate: 0.40%
```

Run 6: Report of LEDBAT — Data Link

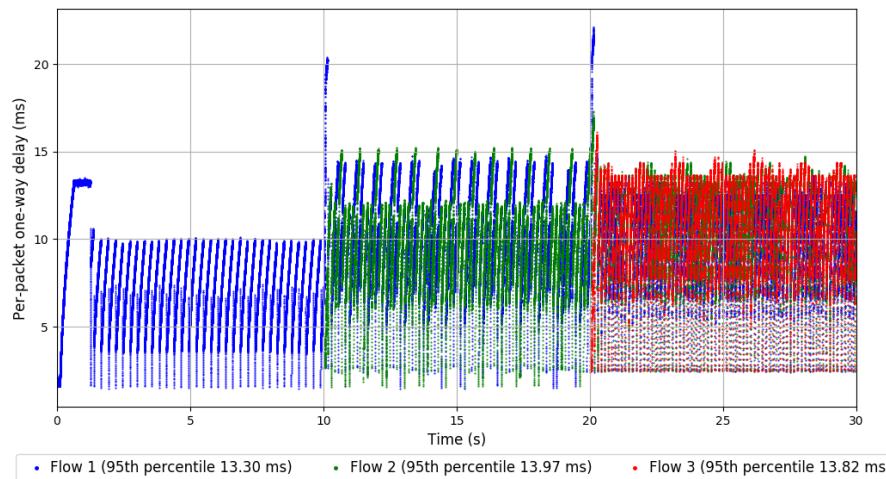
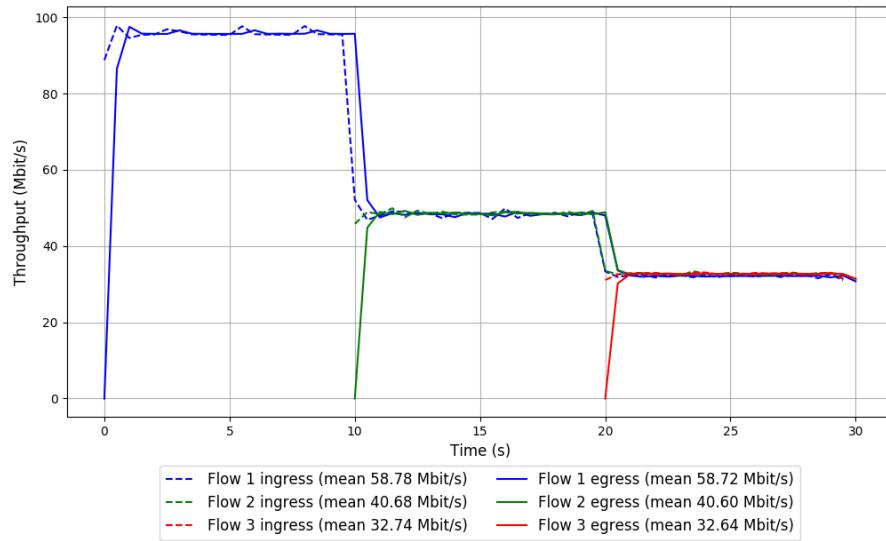


Run 7: Statistics of LEDBAT

```
Start at: 2018-05-22 17:24:13
End at: 2018-05-22 17:24:43
Local clock offset: -6.805 ms
Remote clock offset: -2.119 ms

# Below is generated by plot.py at 2018-05-22 18:39:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 13.593 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 58.72 Mbit/s
95th percentile per-packet one-way delay: 13.300 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.60 Mbit/s
95th percentile per-packet one-way delay: 13.972 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 13.821 ms
Loss rate: 0.38%
```

Run 7: Report of LEDBAT — Data Link

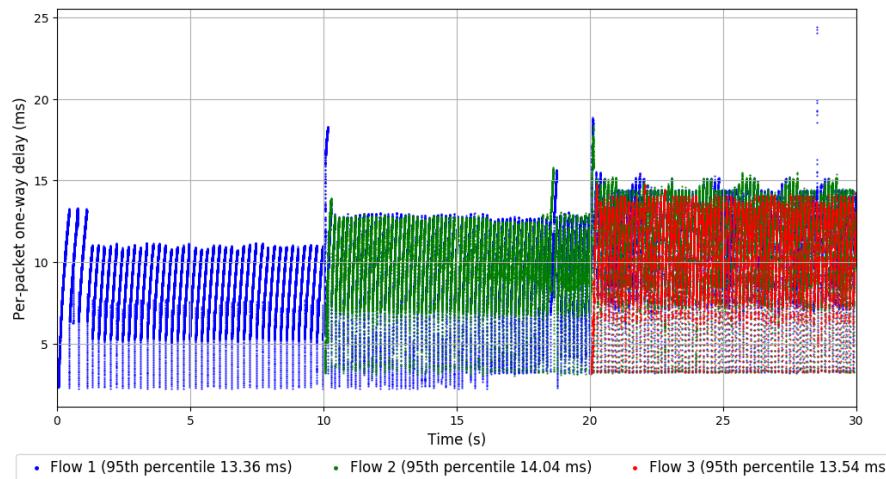
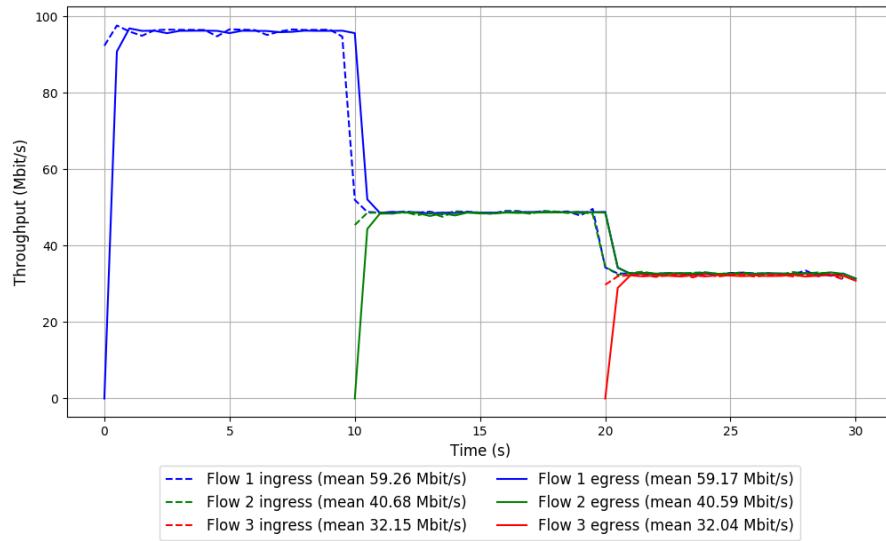


Run 8: Statistics of LEDBAT

```
Start at: 2018-05-22 17:42:04
End at: 2018-05-22 17:42:34
Local clock offset: -5.983 ms
Remote clock offset: -1.833 ms

# Below is generated by plot.py at 2018-05-22 18:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.84 Mbit/s
95th percentile per-packet one-way delay: 13.669 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.17 Mbit/s
95th percentile per-packet one-way delay: 13.362 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 40.59 Mbit/s
95th percentile per-packet one-way delay: 14.041 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 13.537 ms
Loss rate: 0.40%
```

Run 8: Report of LEDBAT — Data Link

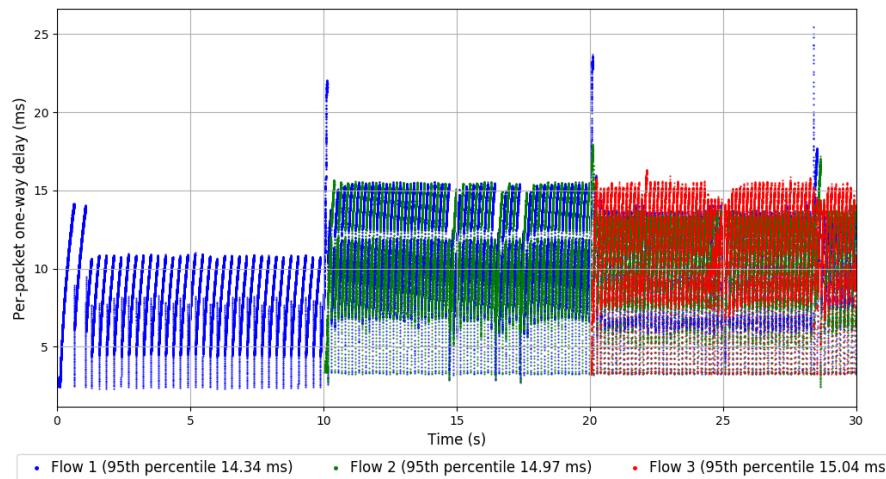
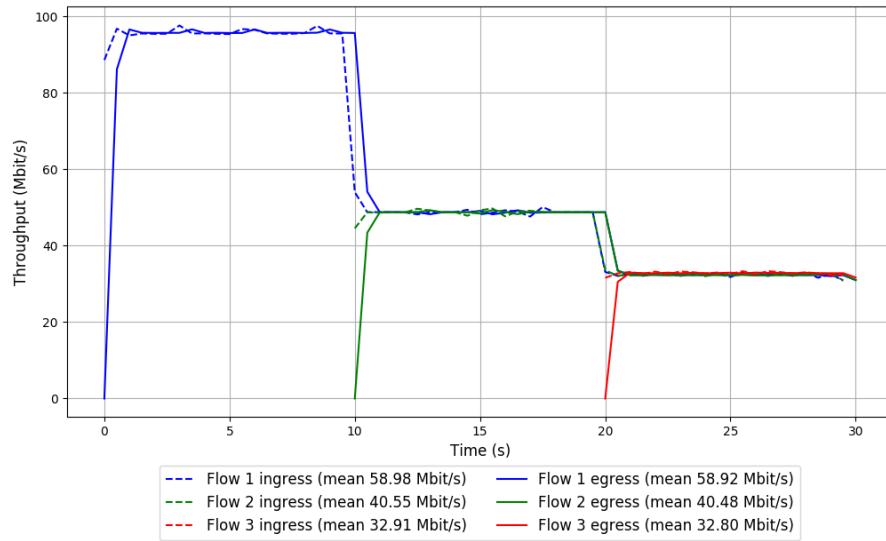


Run 9: Statistics of LEDBAT

```
Start at: 2018-05-22 17:59:55
End at: 2018-05-22 18:00:25
Local clock offset: -5.904 ms
Remote clock offset: -2.343 ms

# Below is generated by plot.py at 2018-05-22 18:39:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 14.778 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 58.92 Mbit/s
95th percentile per-packet one-way delay: 14.338 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 14.972 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 15.040 ms
Loss rate: 0.38%
```

Run 9: Report of LEDBAT — Data Link

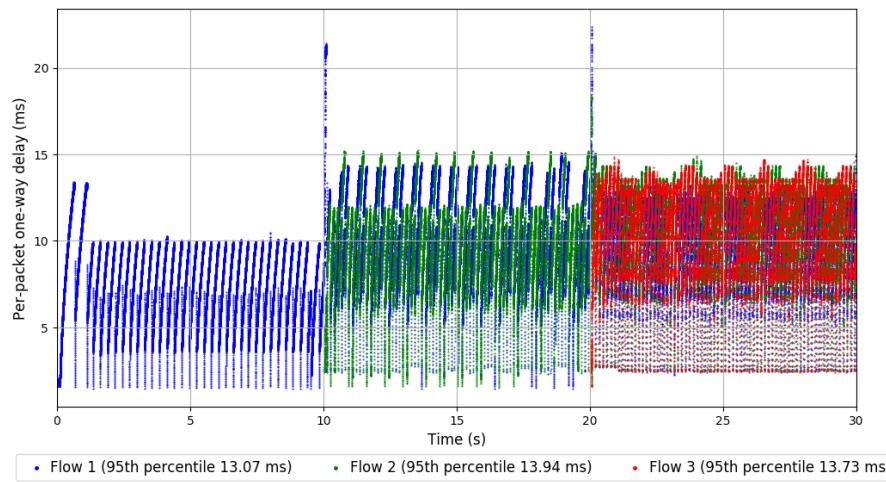
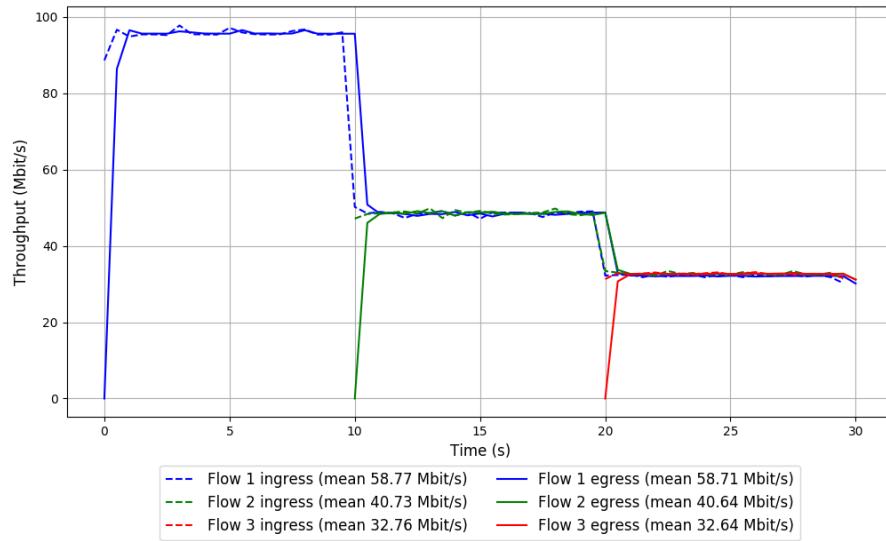


Run 10: Statistics of LEDBAT

```
Start at: 2018-05-22 18:17:46
End at: 2018-05-22 18:18:16
Local clock offset: -6.527 ms
Remote clock offset: -3.261 ms

# Below is generated by plot.py at 2018-05-22 18:39:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 13.528 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 13.073 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 13.937 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 13.734 ms
Loss rate: 0.40%
```

Run 10: Report of LEDBAT — Data Link

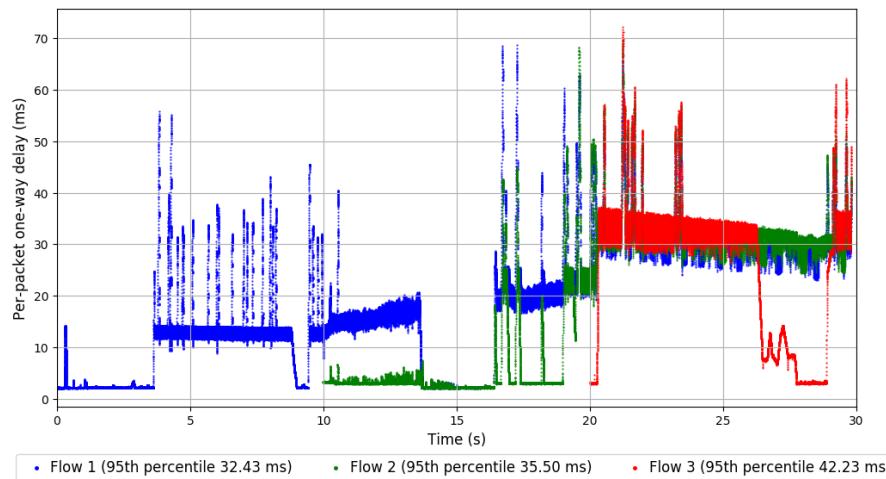
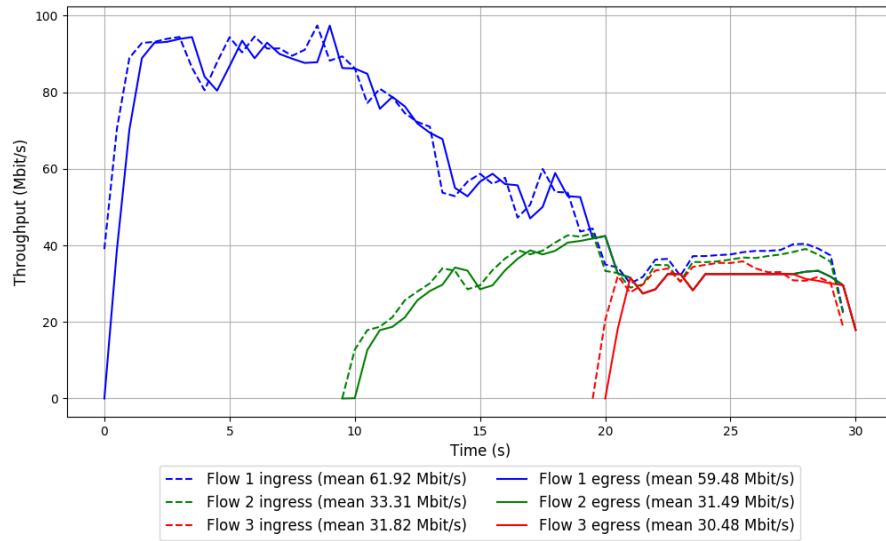


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-05-22 15:39:43
End at: 2018-05-22 15:40:13
Local clock offset: -6.182 ms
Remote clock offset: -2.074 ms

# Below is generated by plot.py at 2018-05-22 18:39:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.48 Mbit/s
95th percentile per-packet one-way delay: 34.654 ms
Loss rate: 4.40%
-- Flow 1:
Average throughput: 59.48 Mbit/s
95th percentile per-packet one-way delay: 32.431 ms
Loss rate: 3.98%
-- Flow 2:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 35.500 ms
Loss rate: 5.56%
-- Flow 3:
Average throughput: 30.48 Mbit/s
95th percentile per-packet one-way delay: 42.229 ms
Loss rate: 4.41%
```

Run 1: Report of PCC-Allegro — Data Link

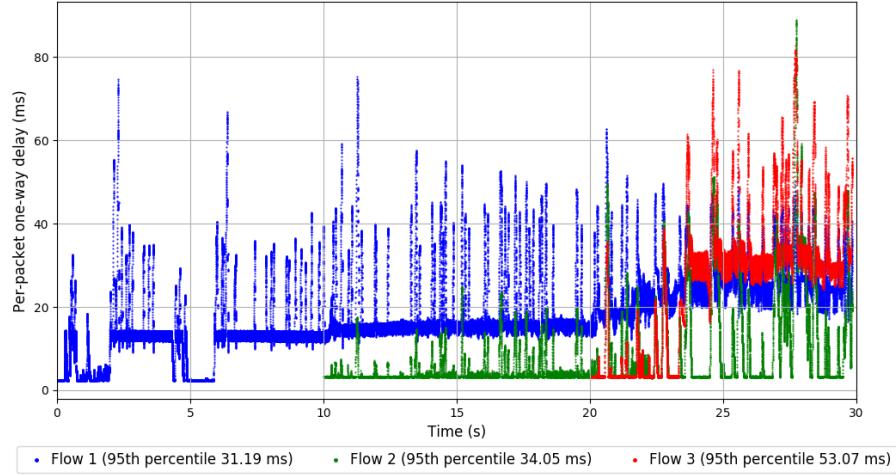
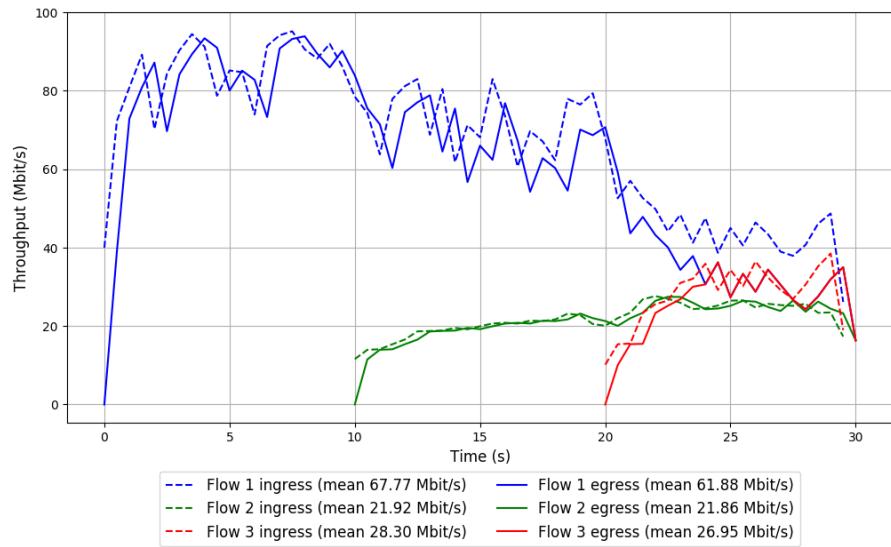


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-05-22 15:57:27
End at: 2018-05-22 15:57:57
Local clock offset: -6.167 ms
Remote clock offset: -2.768 ms

# Below is generated by plot.py at 2018-05-22 18:39:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.28 Mbit/s
95th percentile per-packet one-way delay: 34.933 ms
Loss rate: 7.00%
-- Flow 1:
Average throughput: 61.88 Mbit/s
95th percentile per-packet one-way delay: 31.192 ms
Loss rate: 8.72%
-- Flow 2:
Average throughput: 21.86 Mbit/s
95th percentile per-packet one-way delay: 34.051 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 26.95 Mbit/s
95th percentile per-packet one-way delay: 53.074 ms
Loss rate: 5.05%
```

Run 2: Report of PCC-Allegro — Data Link

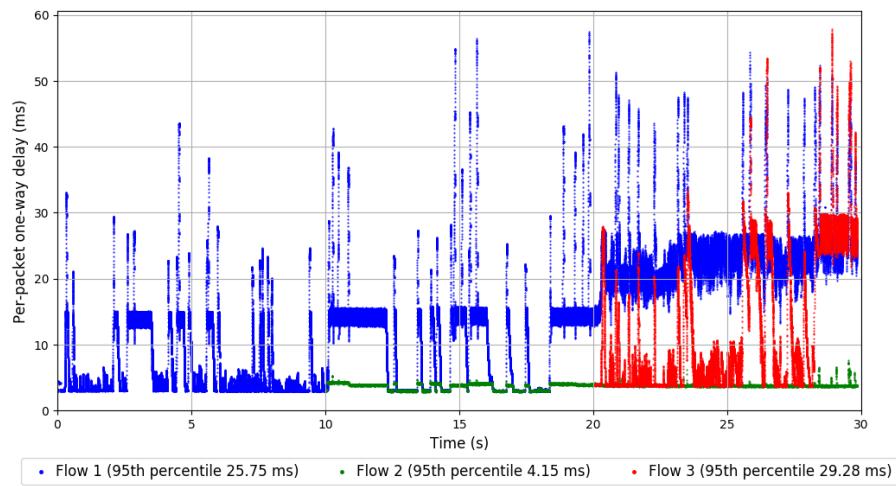
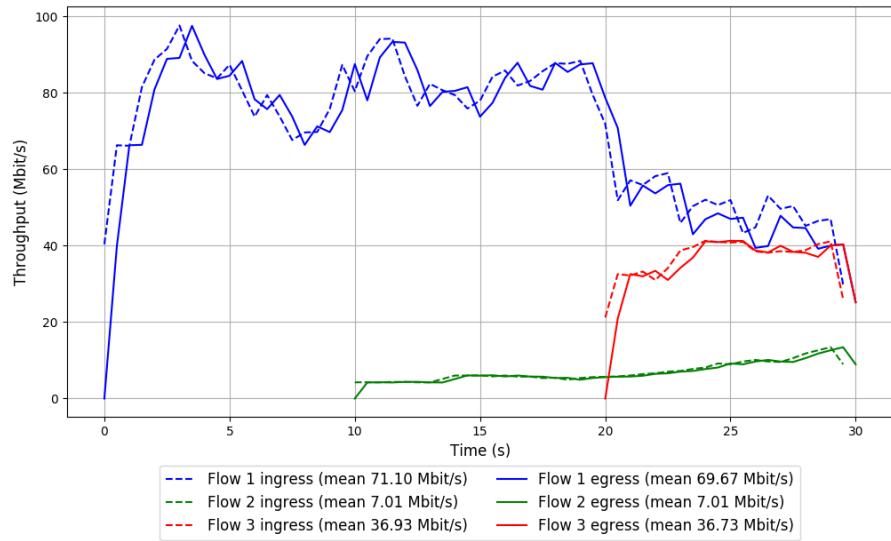


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-05-22 16:15:10
End at: 2018-05-22 16:15:40
Local clock offset: -5.264 ms
Remote clock offset: -4.164 ms

# Below is generated by plot.py at 2018-05-22 18:40:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 26.279 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 69.67 Mbit/s
95th percentile per-packet one-way delay: 25.750 ms
Loss rate: 2.06%
-- Flow 2:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 4.152 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 29.283 ms
Loss rate: 0.69%
```

Run 3: Report of PCC-Allegro — Data Link

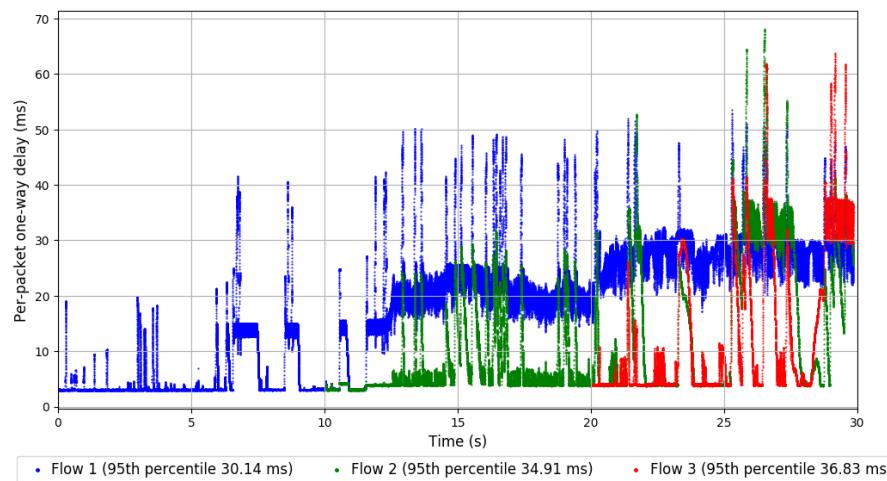
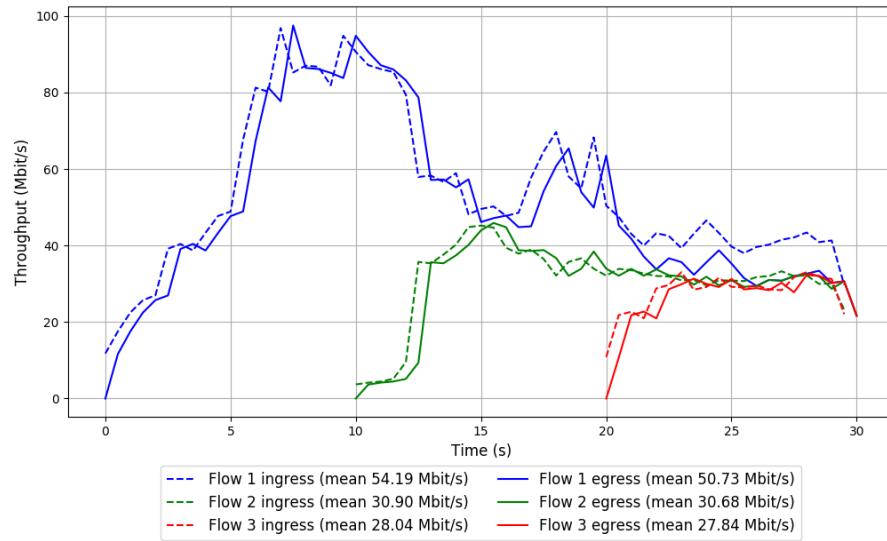


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-05-22 16:32:56
End at: 2018-05-22 16:33:26
Local clock offset: -5.061 ms
Remote clock offset: -8.095 ms

# Below is generated by plot.py at 2018-05-22 18:40:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.27 Mbit/s
95th percentile per-packet one-way delay: 33.580 ms
Loss rate: 4.43%
-- Flow 1:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 30.137 ms
Loss rate: 6.44%
-- Flow 2:
Average throughput: 30.68 Mbit/s
95th percentile per-packet one-way delay: 34.912 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 36.825 ms
Loss rate: 0.86%
```

Run 4: Report of PCC-Allegro — Data Link

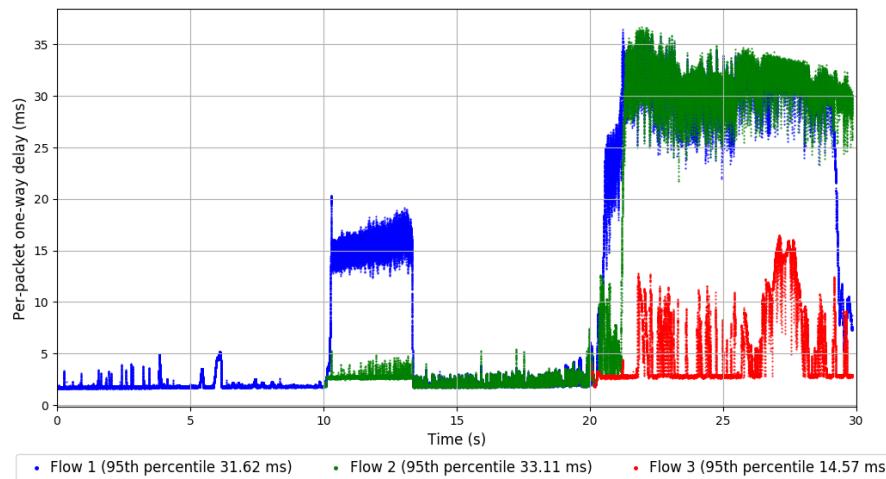
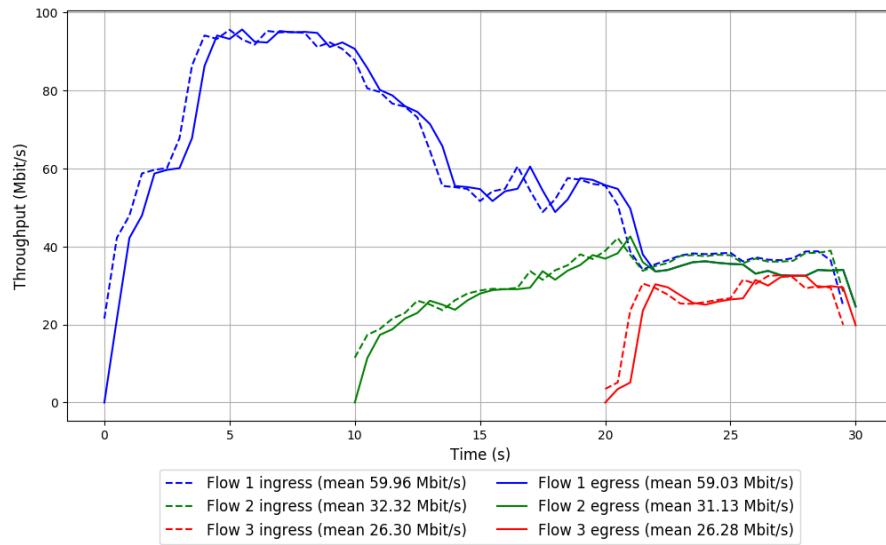


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-05-22 16:50:45
End at: 2018-05-22 16:51:15
Local clock offset: -6.384 ms
Remote clock offset: -6.706 ms

# Below is generated by plot.py at 2018-05-22 18:40:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 32.150 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 59.03 Mbit/s
95th percentile per-packet one-way delay: 31.616 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 33.106 ms
Loss rate: 3.75%
-- Flow 3:
Average throughput: 26.28 Mbit/s
95th percentile per-packet one-way delay: 14.570 ms
Loss rate: 0.11%
```

Run 5: Report of PCC-Allegro — Data Link

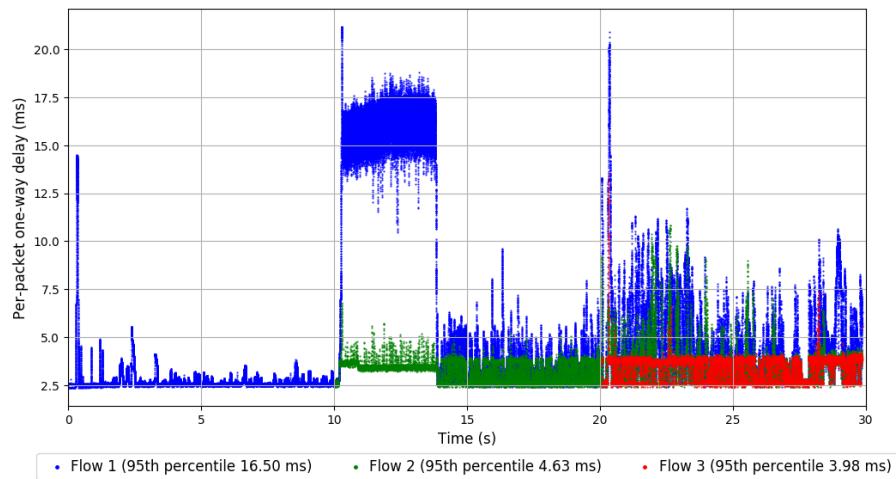
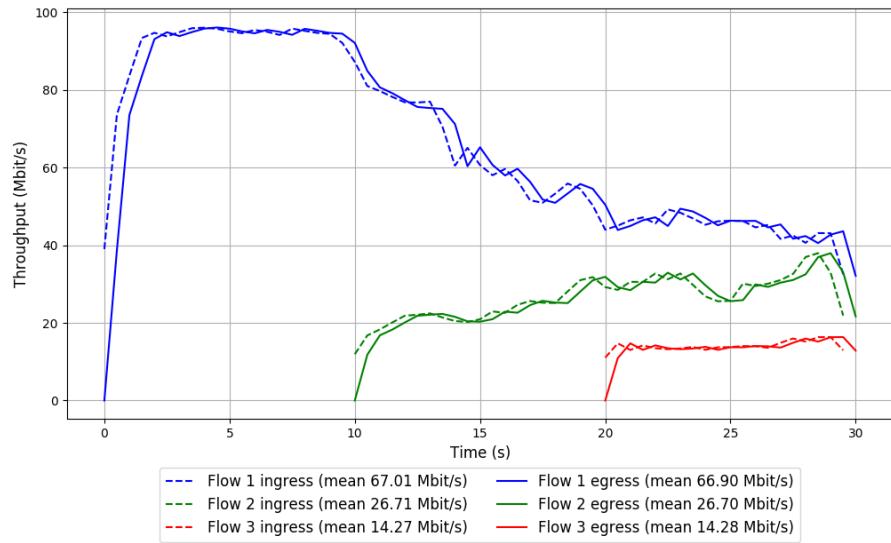


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-05-22 17:08:38
End at: 2018-05-22 17:09:08
Local clock offset: -5.927 ms
Remote clock offset: -2.966 ms

# Below is generated by plot.py at 2018-05-22 18:40:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.34 Mbit/s
95th percentile per-packet one-way delay: 16.176 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 66.90 Mbit/s
95th percentile per-packet one-way delay: 16.495 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 26.70 Mbit/s
95th percentile per-packet one-way delay: 4.631 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 14.28 Mbit/s
95th percentile per-packet one-way delay: 3.975 ms
Loss rate: 0.07%
```

Run 6: Report of PCC-Allegro — Data Link

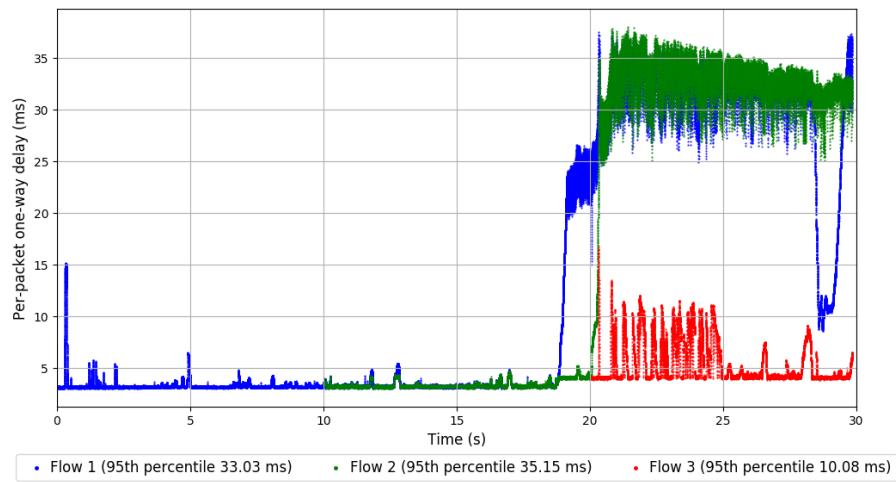
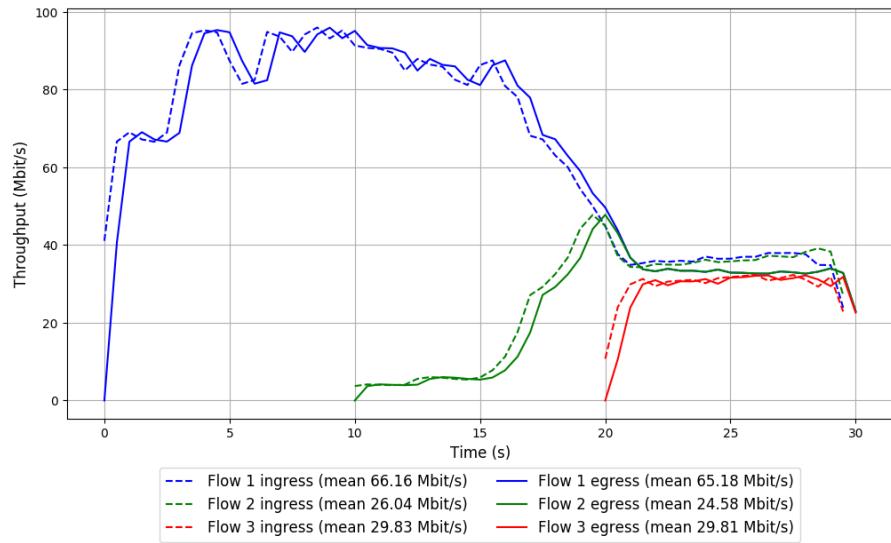


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-05-22 17:26:28
End at: 2018-05-22 17:26:58
Local clock offset: -5.288 ms
Remote clock offset: -2.171 ms

# Below is generated by plot.py at 2018-05-22 18:40:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 33.780 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 65.18 Mbit/s
95th percentile per-packet one-way delay: 33.027 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 35.151 ms
Loss rate: 5.64%
-- Flow 3:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 10.082 ms
Loss rate: 0.09%
```

Run 7: Report of PCC-Allegro — Data Link

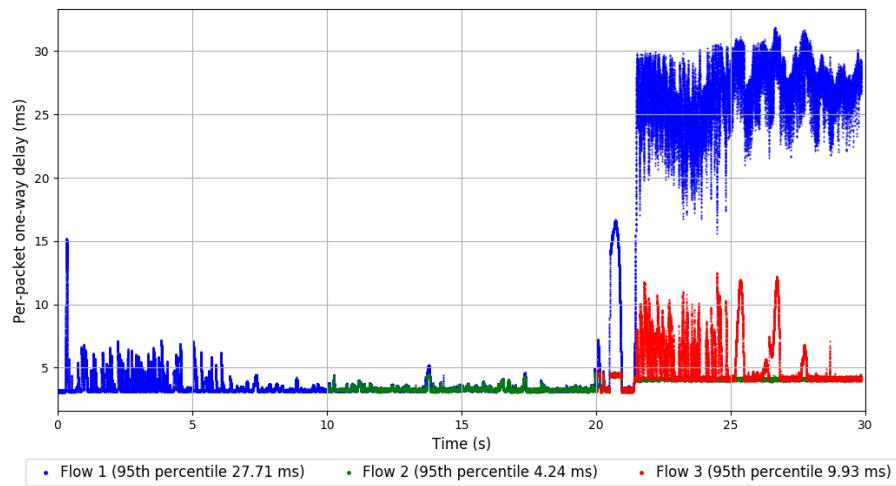
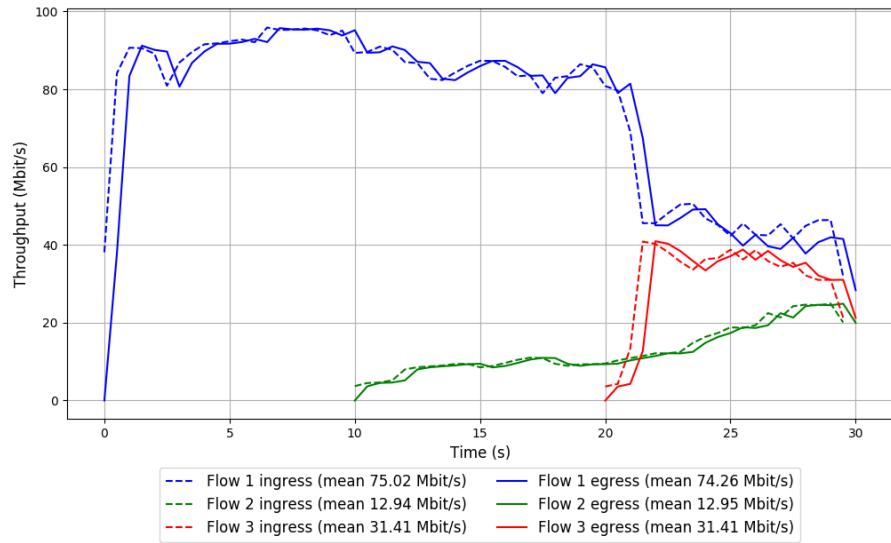


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-05-22 17:44:19
End at: 2018-05-22 17:44:49
Local clock offset: -5.207 ms
Remote clock offset: -1.809 ms

# Below is generated by plot.py at 2018-05-22 18:40:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 27.260 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 74.26 Mbit/s
95th percentile per-packet one-way delay: 27.709 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 4.237 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 9.928 ms
Loss rate: 0.05%
```

Run 8: Report of PCC-Allegro — Data Link

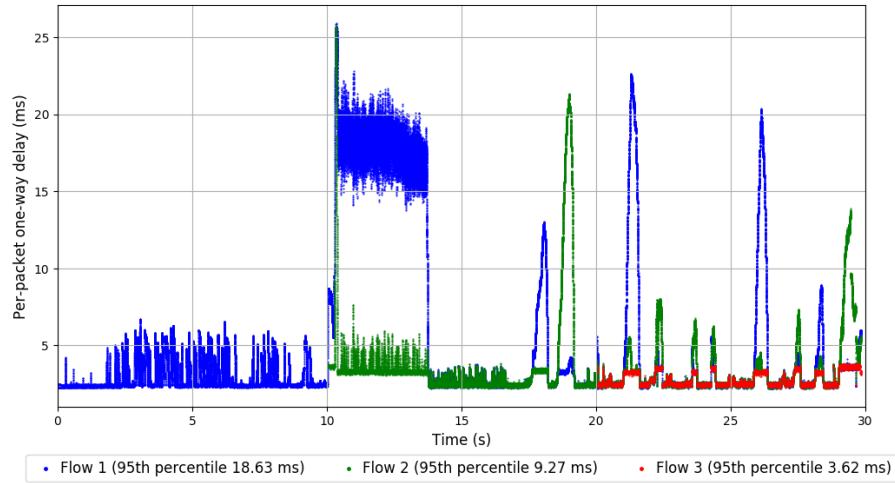
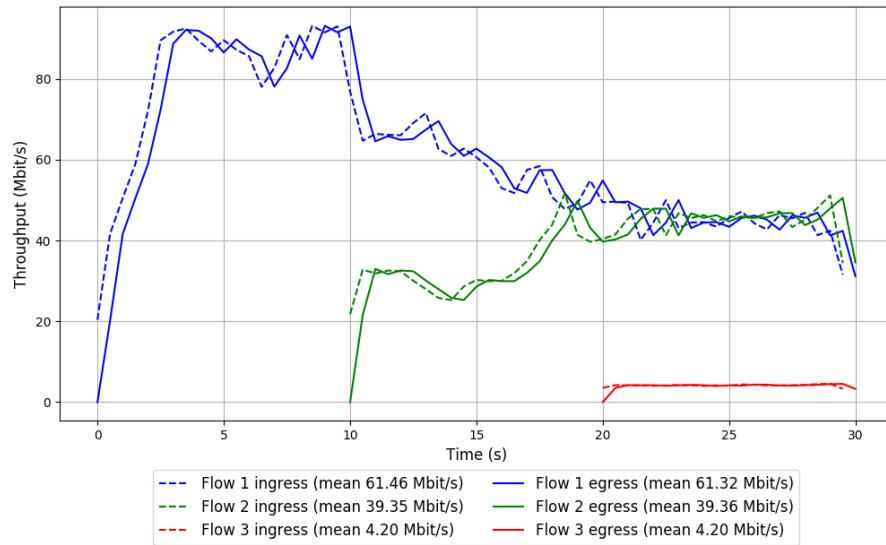


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-05-22 18:02:11
End at: 2018-05-22 18:02:41
Local clock offset: -5.871 ms
Remote clock offset: -2.514 ms

# Below is generated by plot.py at 2018-05-22 18:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.88 Mbit/s
95th percentile per-packet one-way delay: 18.183 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 61.32 Mbit/s
95th percentile per-packet one-way delay: 18.634 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 9.268 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 3.616 ms
Loss rate: 0.06%
```

Run 9: Report of PCC-Allegro — Data Link

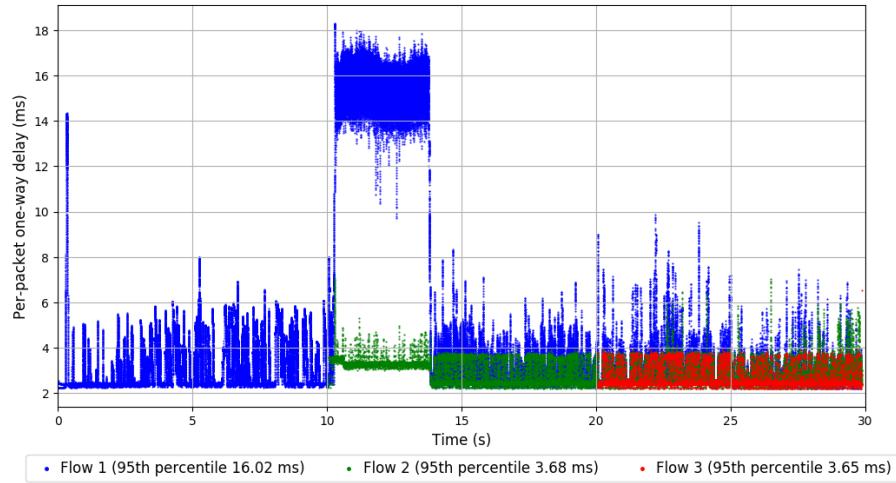
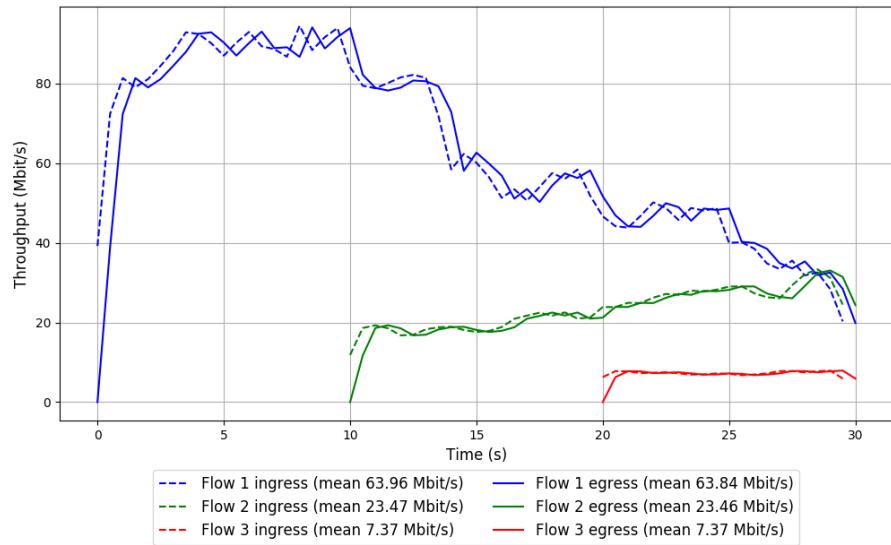


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-05-22 18:20:01
End at: 2018-05-22 18:20:31
Local clock offset: -5.767 ms
Remote clock offset: -3.365 ms

# Below is generated by plot.py at 2018-05-22 18:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.84 Mbit/s
95th percentile per-packet one-way delay: 15.777 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 63.84 Mbit/s
95th percentile per-packet one-way delay: 16.019 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 23.46 Mbit/s
95th percentile per-packet one-way delay: 3.678 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 3.650 ms
Loss rate: 0.03%
```

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-22 15:41:57

End at: 2018-05-22 15:42:27

Local clock offset: -6.883 ms

Remote clock offset: -2.288 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-22 15:59:41
End at: 2018-05-22 16:00:11
Local clock offset: -5.365 ms
Remote clock offset: -2.775 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-22 16:17:24

End at: 2018-05-22 16:17:54

Local clock offset: -5.262 ms

Remote clock offset: -5.074 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-22 16:35:09

End at: 2018-05-22 16:35:39

Local clock offset: -6.615 ms

Remote clock offset: -8.296 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-22 16:52:59
End at: 2018-05-22 16:53:29
Local clock offset: -6.415 ms
Remote clock offset: -5.725 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-22 17:10:51

End at: 2018-05-22 17:11:21

Local clock offset: -5.966 ms

Remote clock offset: -2.699 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-22 17:28:42
End at: 2018-05-22 17:29:12
Local clock offset: -6.028 ms
Remote clock offset: -2.211 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-05-22 17:46:33

End at: 2018-05-22 17:47:03

Local clock offset: -6.791 ms

Remote clock offset: -1.717 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 18:04:25

End at: 2018-05-22 18:04:55

Local clock offset: -5.087 ms

Remote clock offset: -2.683 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 18:22:15

End at: 2018-05-22 18:22:45

Local clock offset: -6.512 ms

Remote clock offset: -3.361 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

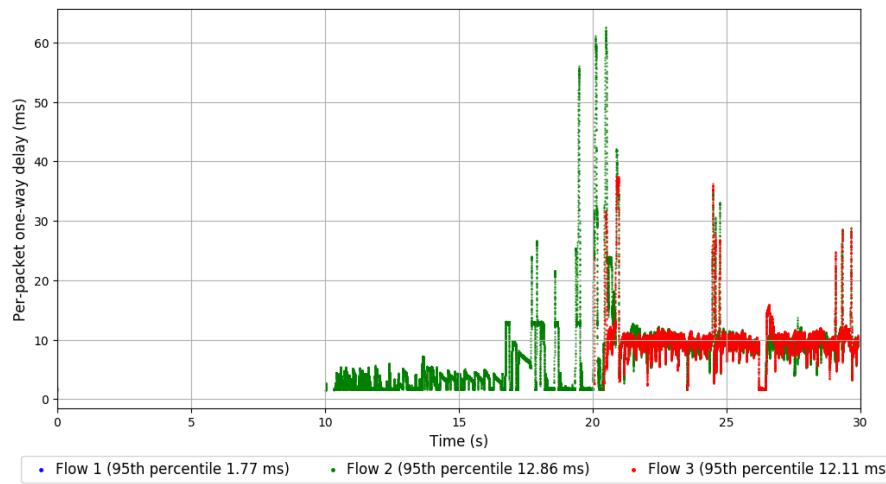
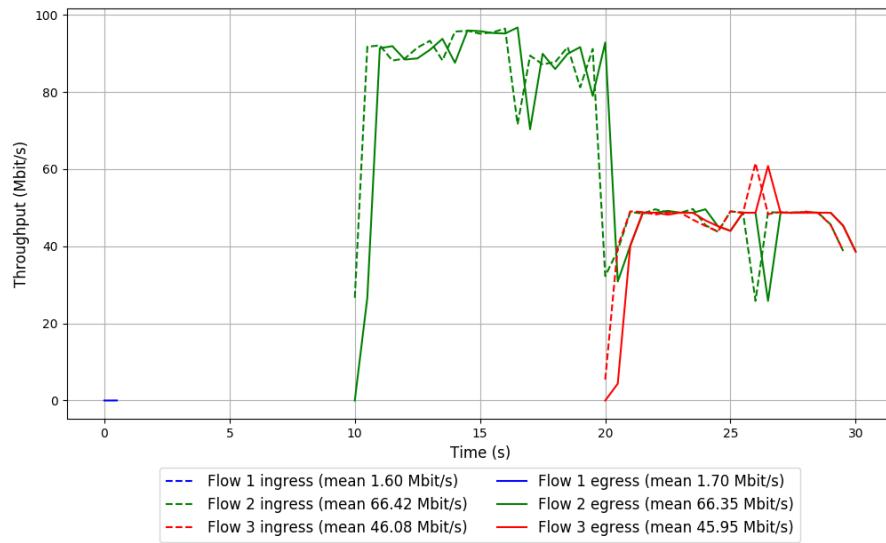
Figure is missing

Run 1: Statistics of QUIC Cubic

```
Start at: 2018-05-22 15:38:37
End at: 2018-05-22 15:39:07
Local clock offset: -6.928 ms
Remote clock offset: -2.136 ms

# Below is generated by plot.py at 2018-05-22 18:40:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.35 Mbit/s
95th percentile per-packet one-way delay: 12.844 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 1.773 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.35 Mbit/s
95th percentile per-packet one-way delay: 12.856 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 45.95 Mbit/s
95th percentile per-packet one-way delay: 12.113 ms
Loss rate: 0.33%
```

Run 1: Report of QUIC Cubic — Data Link

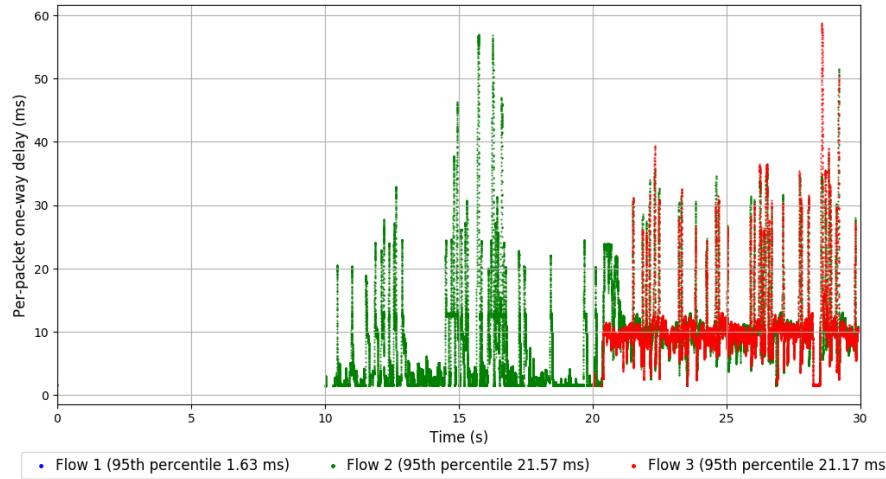
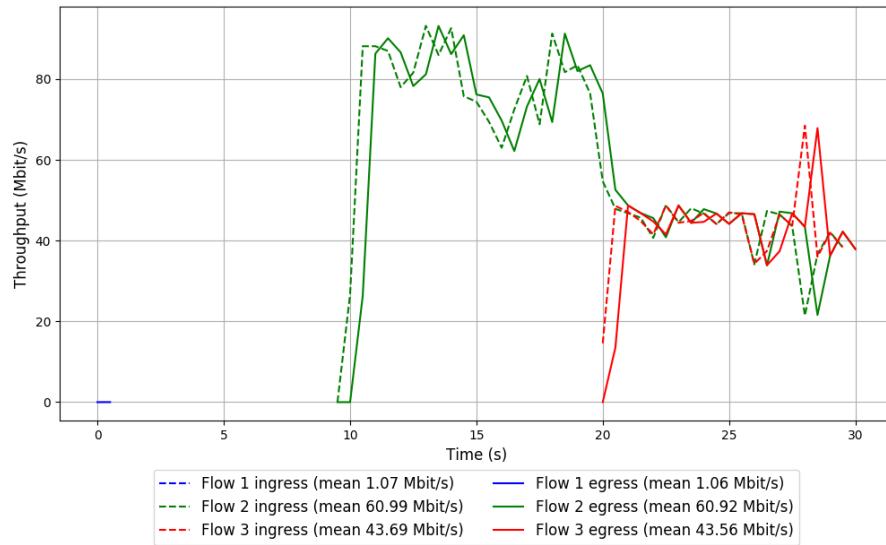


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-05-22 15:56:21
End at: 2018-05-22 15:56:51
Local clock offset: -7.036 ms
Remote clock offset: -2.811 ms

# Below is generated by plot.py at 2018-05-22 18:40:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 21.510 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 1.628 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.92 Mbit/s
95th percentile per-packet one-way delay: 21.566 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 43.56 Mbit/s
95th percentile per-packet one-way delay: 21.174 ms
Loss rate: 0.32%
```

Run 2: Report of QUIC Cubic — Data Link

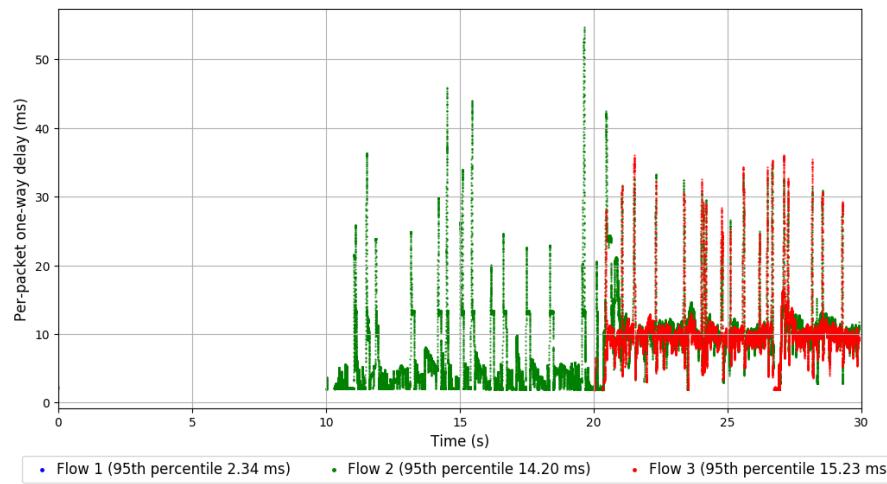
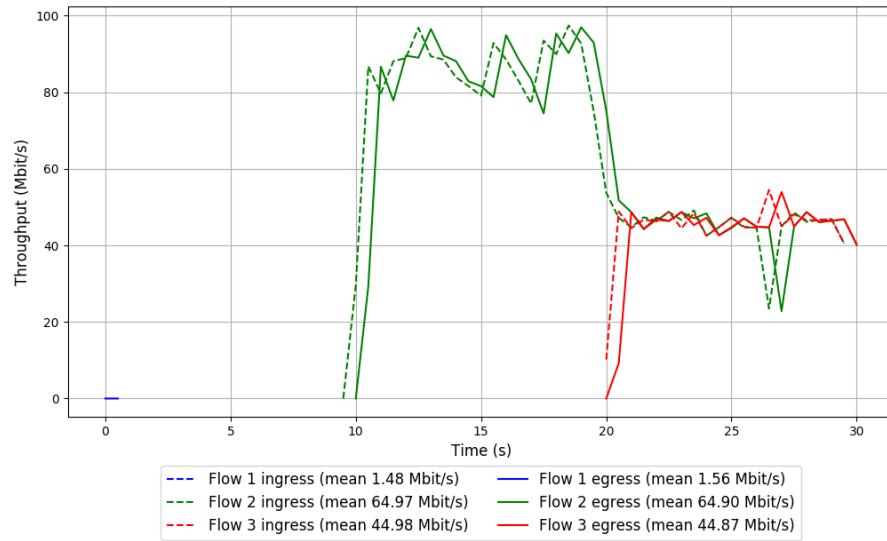


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-05-22 16:14:04
End at: 2018-05-22 16:14:34
Local clock offset: -6.033 ms
Remote clock offset: -3.491 ms

# Below is generated by plot.py at 2018-05-22 18:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.04 Mbit/s
95th percentile per-packet one-way delay: 14.443 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 2.337 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.90 Mbit/s
95th percentile per-packet one-way delay: 14.199 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 15.227 ms
Loss rate: 0.30%
```

Run 3: Report of QUIC Cubic — Data Link

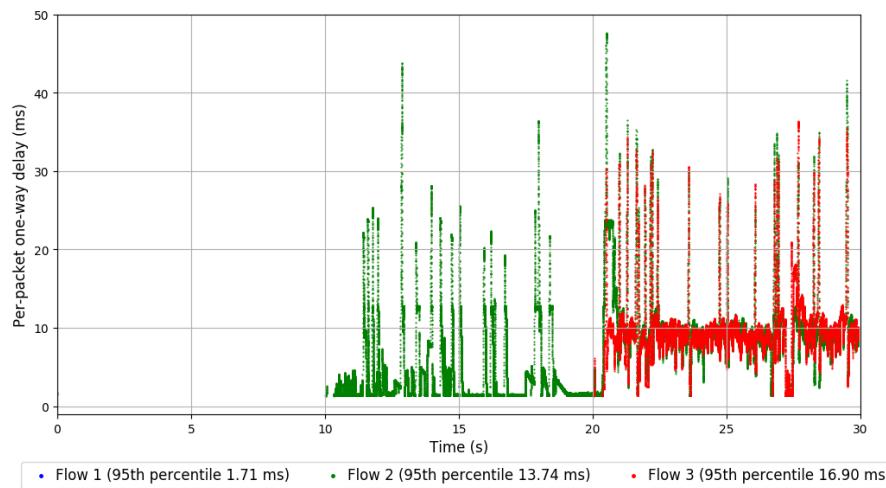
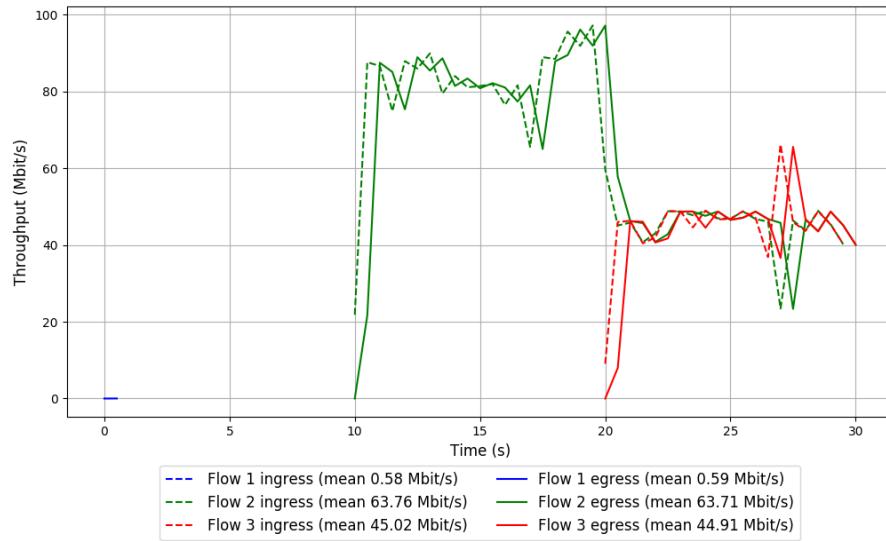


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-05-22 16:31:49
End at: 2018-05-22 16:32:19
Local clock offset: -6.672 ms
Remote clock offset: -7.928 ms

# Below is generated by plot.py at 2018-05-22 18:41:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.24 Mbit/s
95th percentile per-packet one-way delay: 14.694 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 1.712 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.71 Mbit/s
95th percentile per-packet one-way delay: 13.737 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 44.91 Mbit/s
95th percentile per-packet one-way delay: 16.897 ms
Loss rate: 0.29%
```

Run 4: Report of QUIC Cubic — Data Link

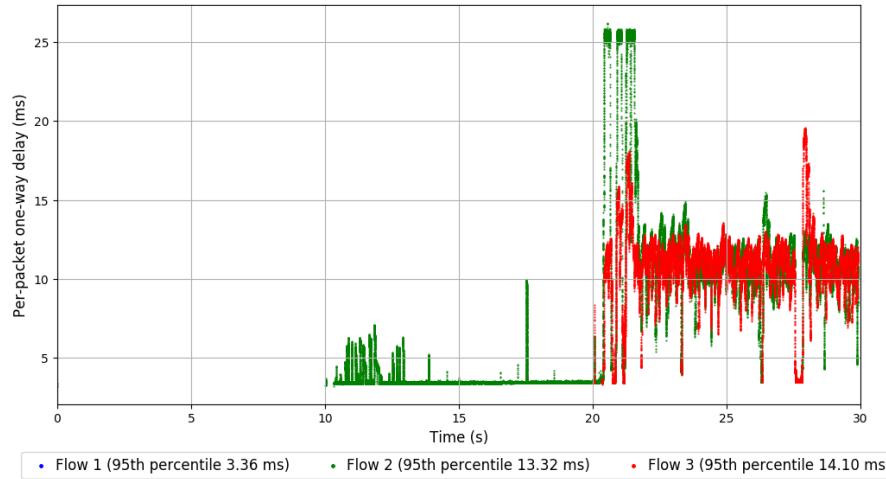
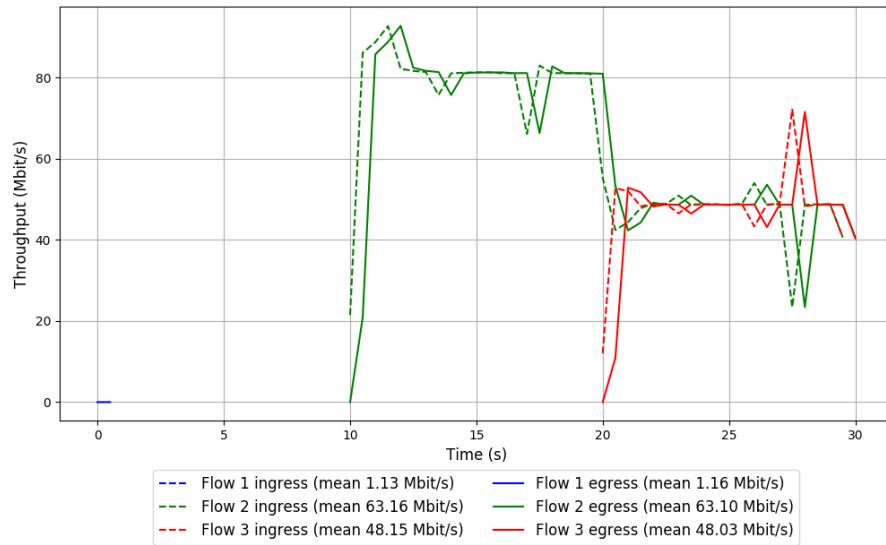


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-05-22 16:49:39
End at: 2018-05-22 16:50:09
Local clock offset: -4.859 ms
Remote clock offset: -7.211 ms

# Below is generated by plot.py at 2018-05-22 18:41:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.86 Mbit/s
95th percentile per-packet one-way delay: 13.584 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 3.358 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.10 Mbit/s
95th percentile per-packet one-way delay: 13.321 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 48.03 Mbit/s
95th percentile per-packet one-way delay: 14.102 ms
Loss rate: 0.29%
```

Run 5: Report of QUIC Cubic — Data Link

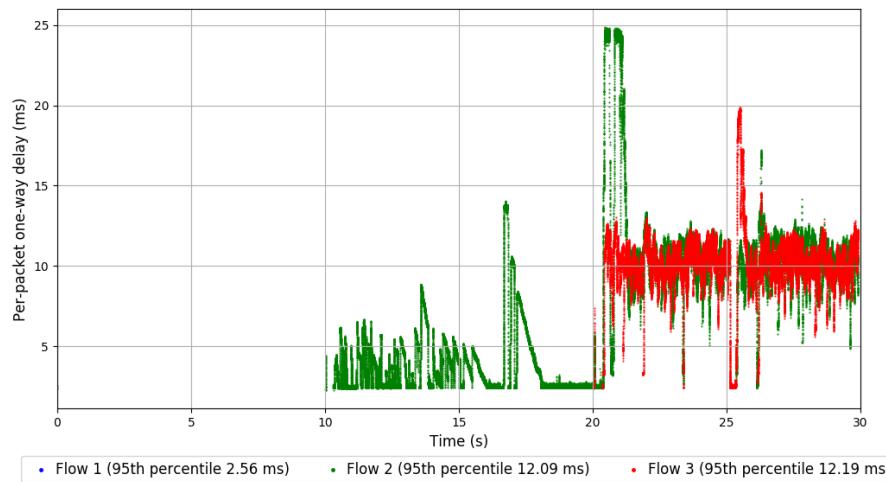
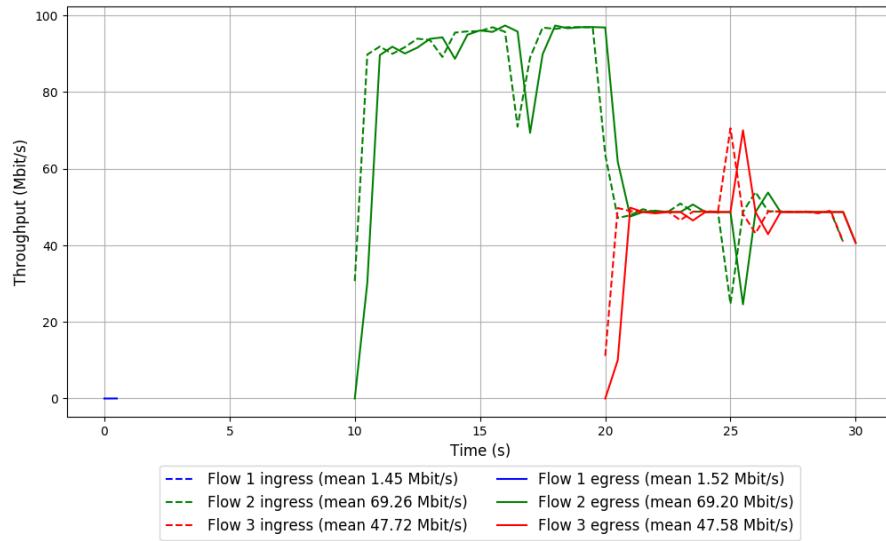


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-05-22 17:07:31
End at: 2018-05-22 17:08:01
Local clock offset: -5.924 ms
Remote clock offset: -2.959 ms

# Below is generated by plot.py at 2018-05-22 18:41:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.79 Mbit/s
95th percentile per-packet one-way delay: 12.126 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 2.561 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.20 Mbit/s
95th percentile per-packet one-way delay: 12.093 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 47.58 Mbit/s
95th percentile per-packet one-way delay: 12.187 ms
Loss rate: 0.33%
```

Run 6: Report of QUIC Cubic — Data Link

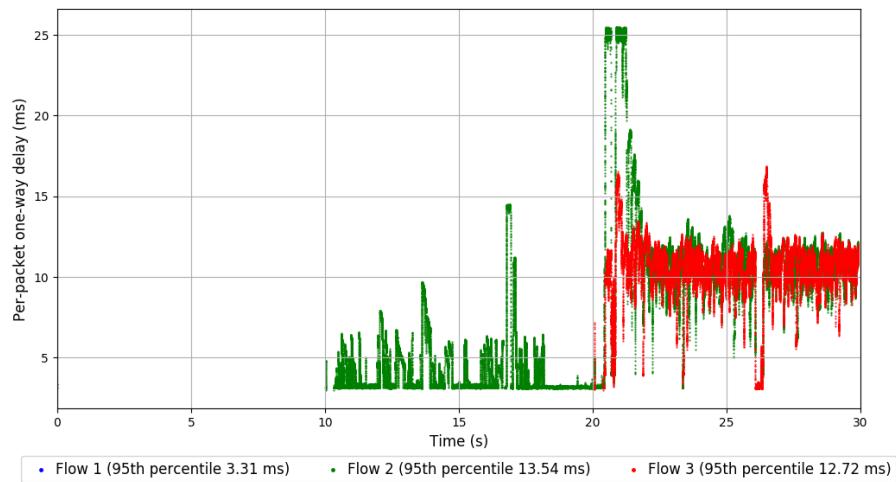
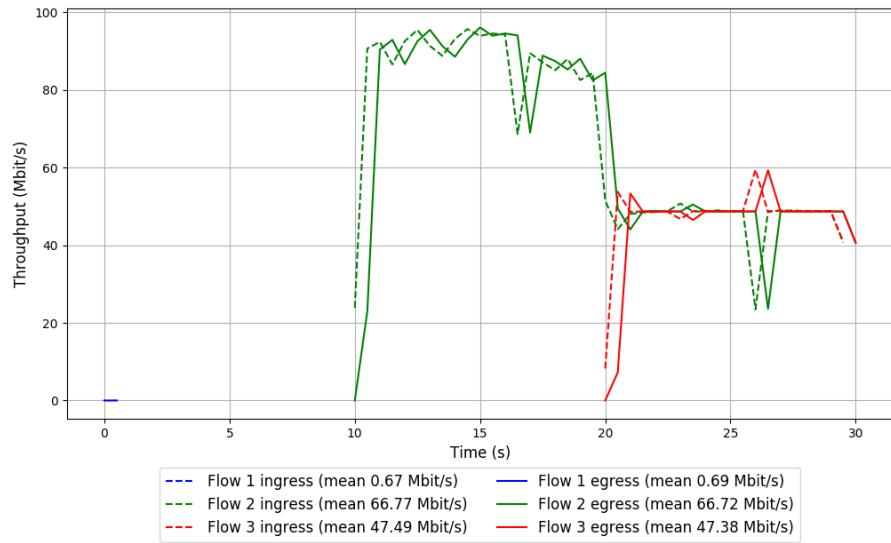


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-05-22 17:25:22
End at: 2018-05-22 17:25:52
Local clock offset: -5.289 ms
Remote clock offset: -2.098 ms

# Below is generated by plot.py at 2018-05-22 18:41:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.06 Mbit/s
95th percentile per-packet one-way delay: 13.100 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 3.314 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.72 Mbit/s
95th percentile per-packet one-way delay: 13.540 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 47.38 Mbit/s
95th percentile per-packet one-way delay: 12.724 ms
Loss rate: 0.31%
```

Run 7: Report of QUIC Cubic — Data Link

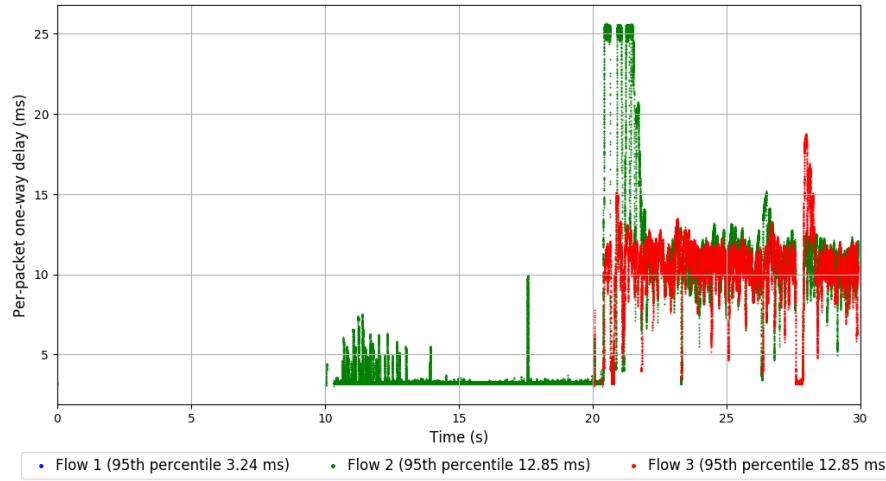
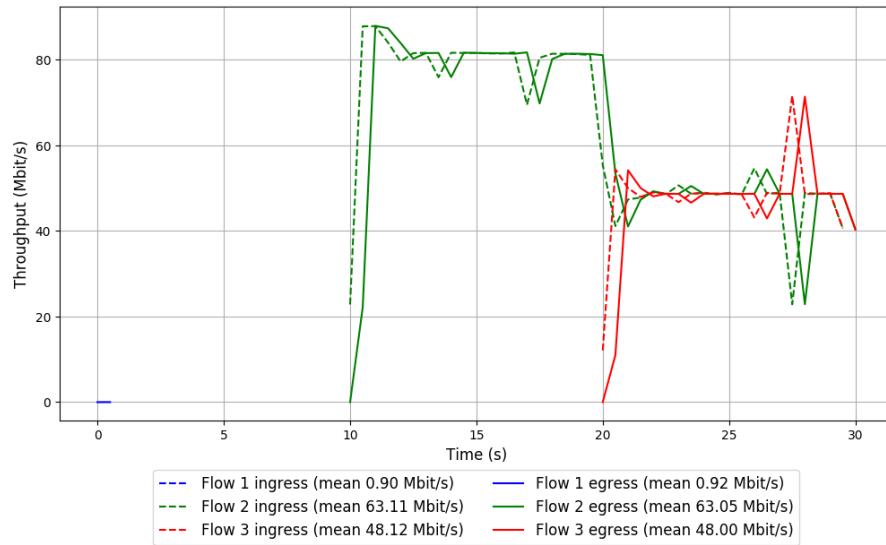


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-05-22 17:43:13
End at: 2018-05-22 17:43:43
Local clock offset: -5.212 ms
Remote clock offset: -1.812 ms

# Below is generated by plot.py at 2018-05-22 18:41:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 12.850 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 3.238 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.05 Mbit/s
95th percentile per-packet one-way delay: 12.854 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 48.00 Mbit/s
95th percentile per-packet one-way delay: 12.846 ms
Loss rate: 0.30%
```

Run 8: Report of QUIC Cubic — Data Link

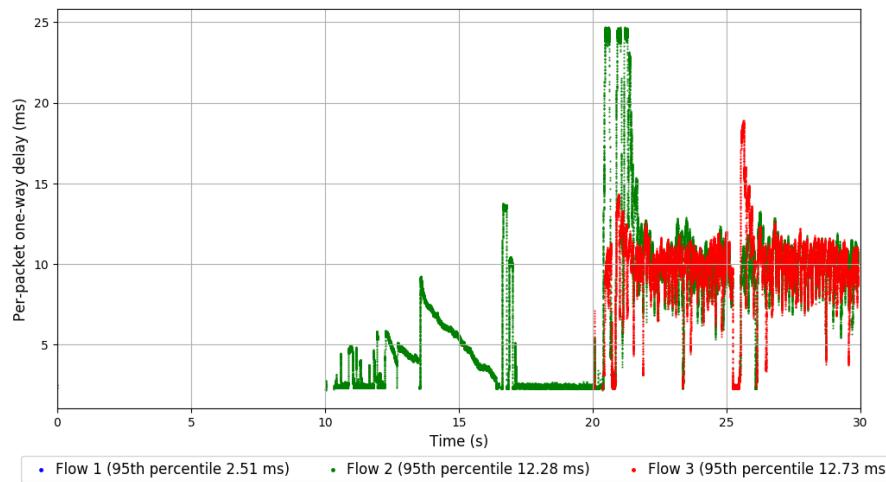
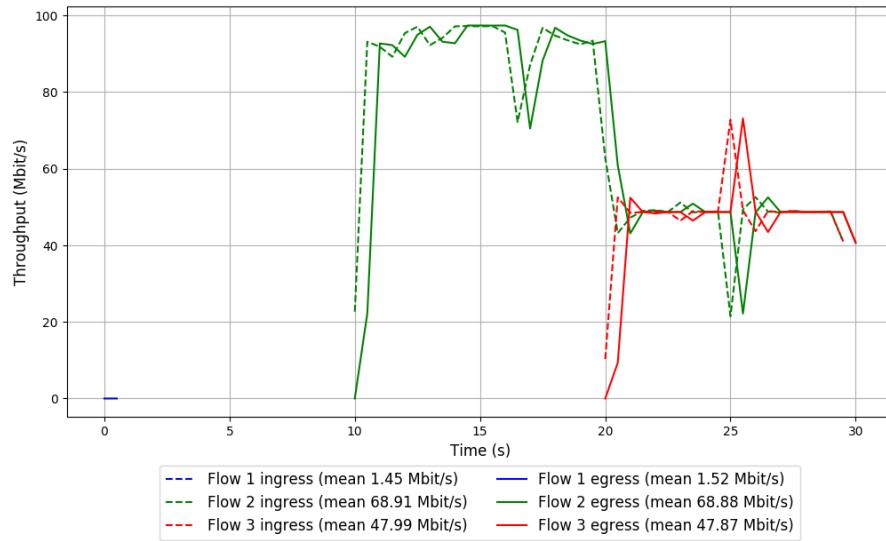


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-05-22 18:01:04
End at: 2018-05-22 18:01:34
Local clock offset: -5.881 ms
Remote clock offset: -2.341 ms

# Below is generated by plot.py at 2018-05-22 18:41:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.66 Mbit/s
95th percentile per-packet one-way delay: 12.377 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 1.52 Mbit/s
95th percentile per-packet one-way delay: 2.511 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.88 Mbit/s
95th percentile per-packet one-way delay: 12.279 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 12.729 ms
Loss rate: 0.29%
```

Run 9: Report of QUIC Cubic — Data Link

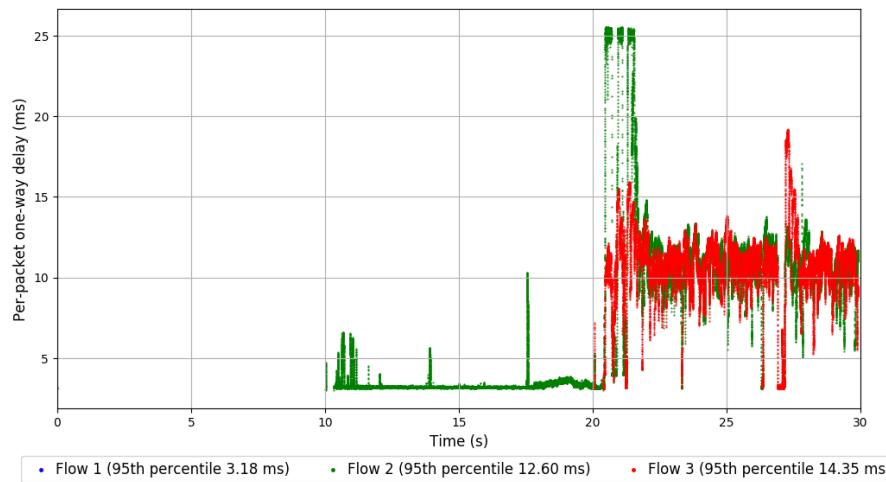
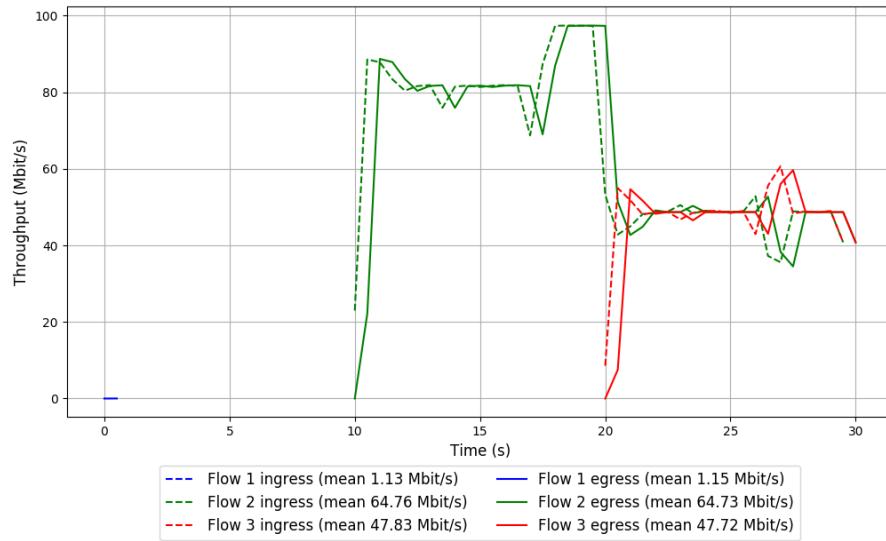


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-05-22 18:18:55
End at: 2018-05-22 18:19:25
Local clock offset: -4.996 ms
Remote clock offset: -3.341 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.85 Mbit/s
95th percentile per-packet one-way delay: 13.158 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 3.179 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.73 Mbit/s
95th percentile per-packet one-way delay: 12.599 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 47.72 Mbit/s
95th percentile per-packet one-way delay: 14.353 ms
Loss rate: 0.27%
```

Run 10: Report of QUIC Cubic — Data Link

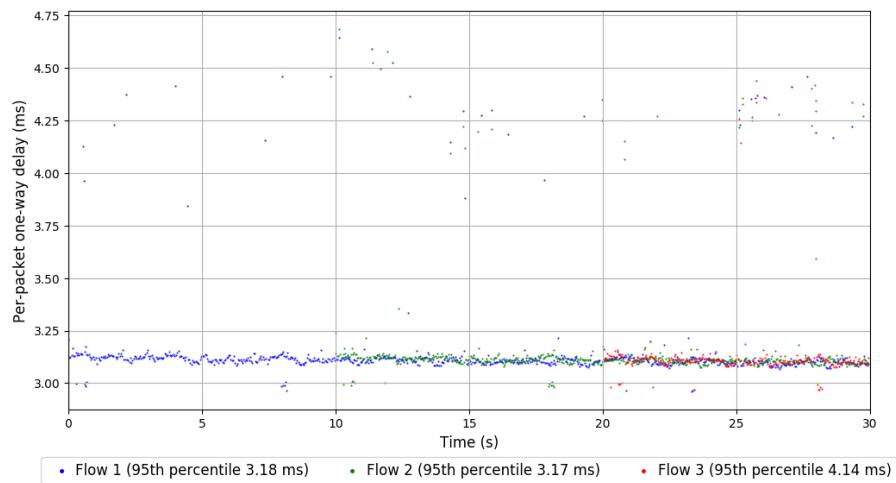
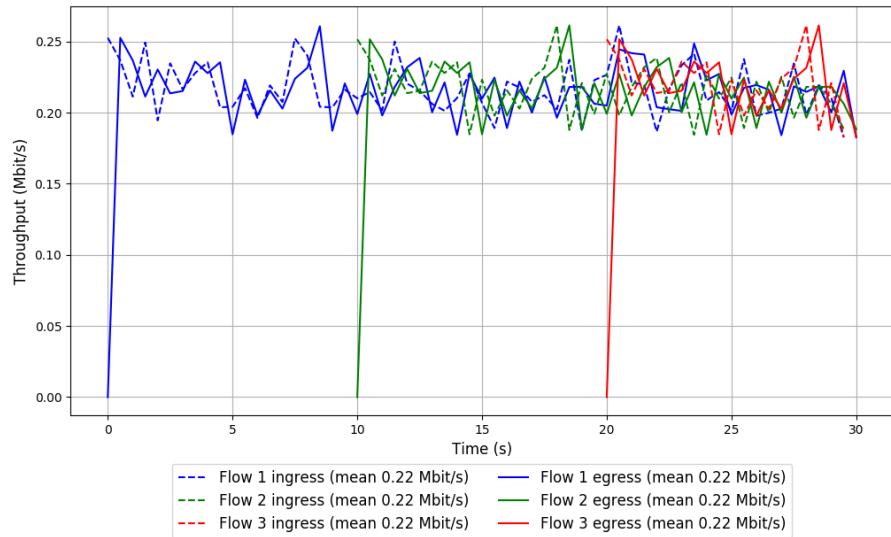


Run 1: Statistics of SCReAM

```
Start at: 2018-05-22 15:44:05
End at: 2018-05-22 15:44:35
Local clock offset: -5.369 ms
Remote clock offset: -2.471 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.184 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.166 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 4.142 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

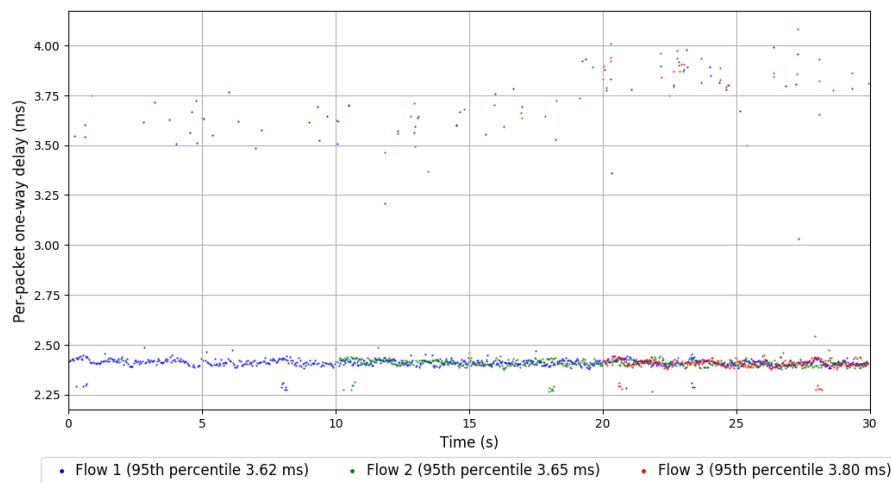
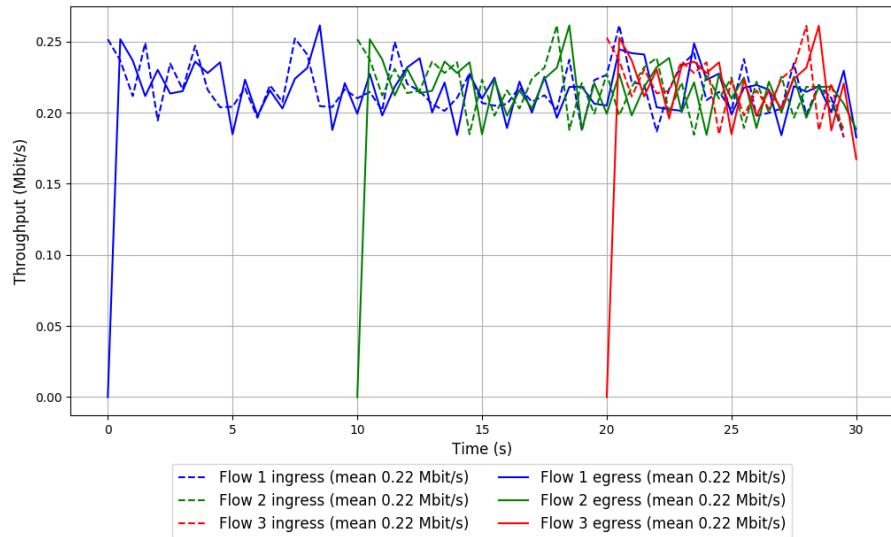


Run 2: Statistics of SCReAM

```
Start at: 2018-05-22 16:01:49
End at: 2018-05-22 16:02:19
Local clock offset: -6.104 ms
Remote clock offset: -2.85 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 3.646 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.622 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.646 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.800 ms
Loss rate: 0.35%
```

Run 2: Report of SCReAM — Data Link

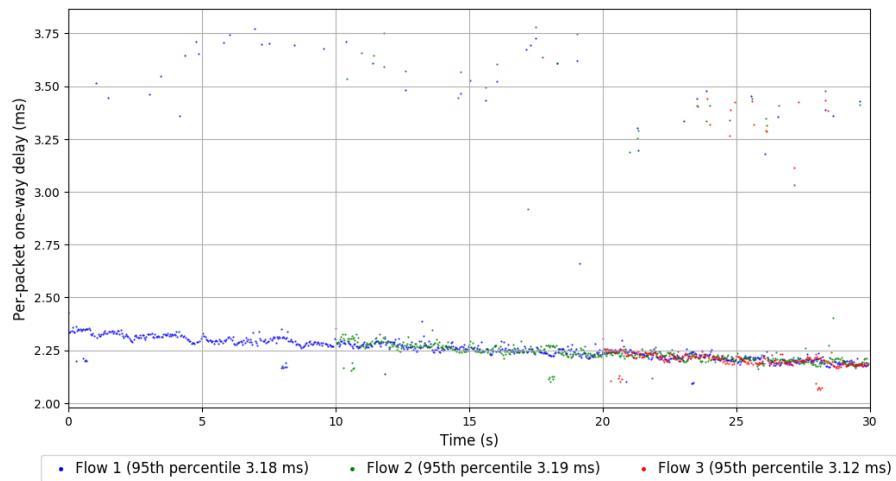
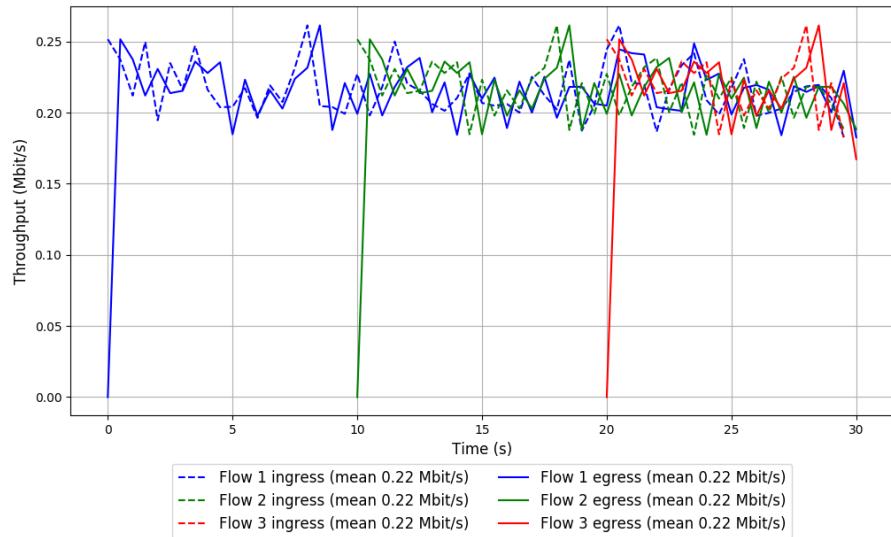


Run 3: Statistics of SCReAM

```
Start at: 2018-05-22 16:19:31
End at: 2018-05-22 16:20:01
Local clock offset: -6.036 ms
Remote clock offset: -5.786 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.180 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.180 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.187 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.115 ms
Loss rate: 0.35%
```

Run 3: Report of SCReAM — Data Link

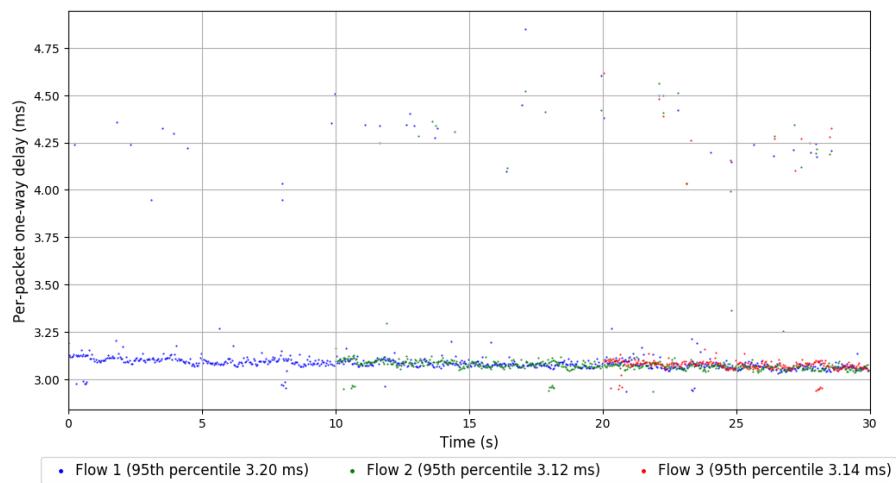
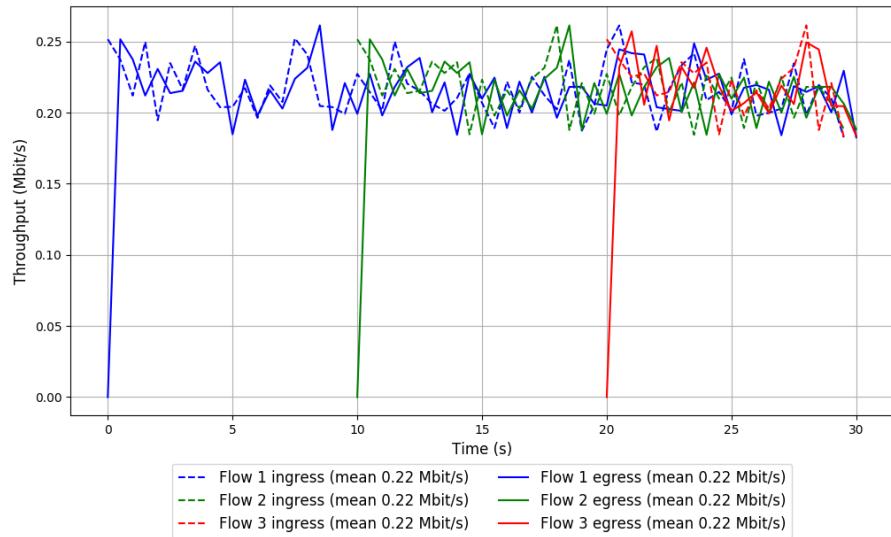


Run 4: Statistics of SCReAM

```
Start at: 2018-05-22 16:37:17
End at: 2018-05-22 16:37:47
Local clock offset: -4.978 ms
Remote clock offset: -8.47 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.190 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.203 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.124 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.139 ms
Loss rate: 0.35%
```

Run 4: Report of SCReAM — Data Link

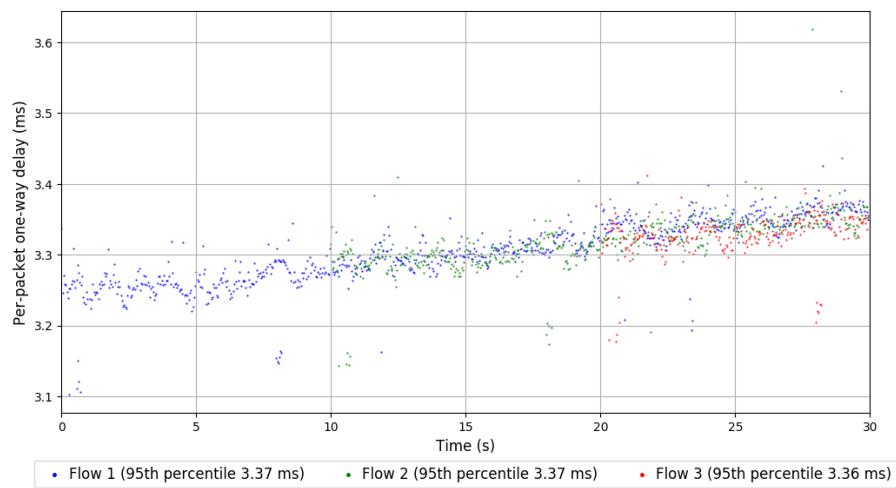
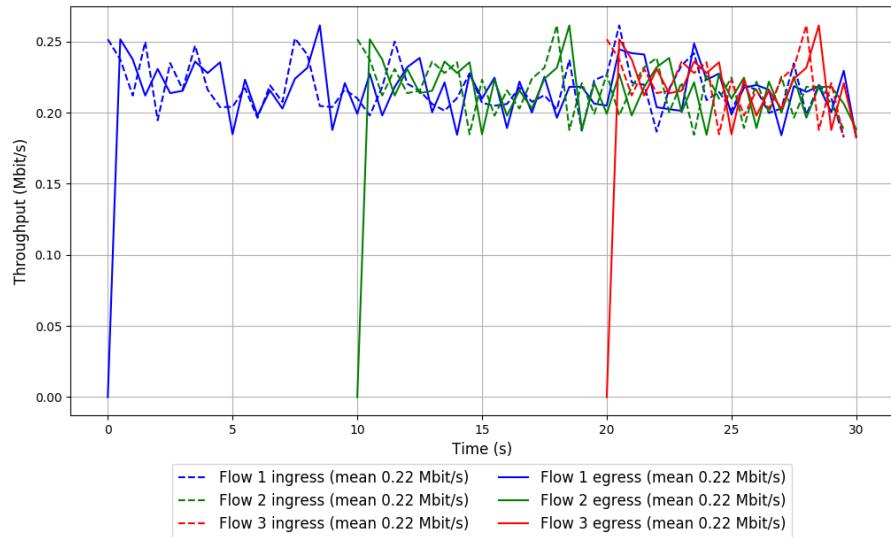


Run 5: Statistics of SCReAM

```
Start at: 2018-05-22 16:55:07
End at: 2018-05-22 16:55:37
Local clock offset: -4.829 ms
Remote clock offset: -5.084 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.367 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.368 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.368 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.362 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

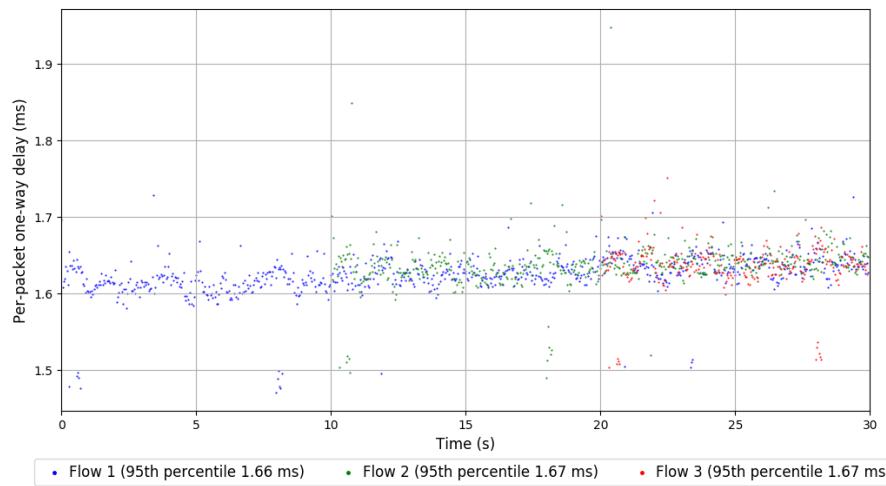
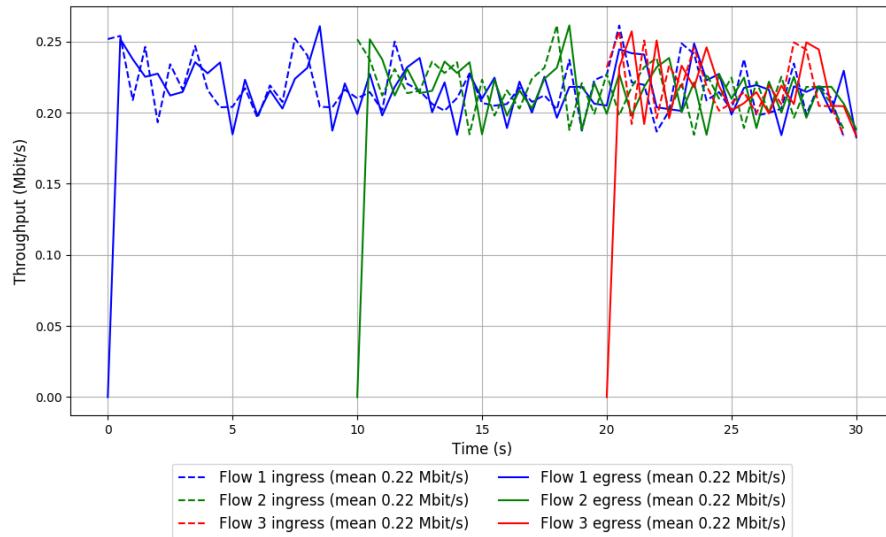


Run 6: Statistics of SCReAM

```
Start at: 2018-05-22 17:12:59
End at: 2018-05-22 17:13:29
Local clock offset: -6.813 ms
Remote clock offset: -2.547 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.664 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.656 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.673 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.670 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link

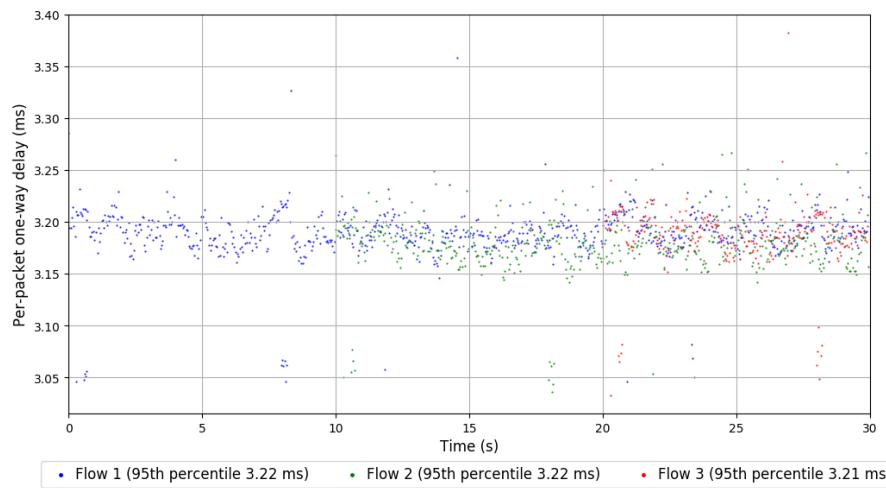
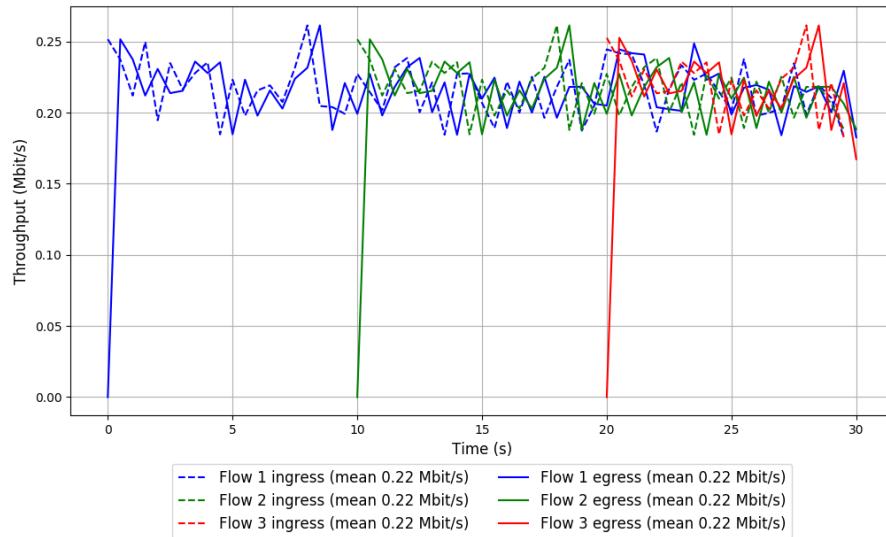


Run 7: Statistics of SCReAM

```
Start at: 2018-05-22 17:30:50
End at: 2018-05-22 17:31:20
Local clock offset: -5.255 ms
Remote clock offset: -2.145 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.218 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.216 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.223 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.215 ms
Loss rate: 0.35%
```

Run 7: Report of SCReAM — Data Link

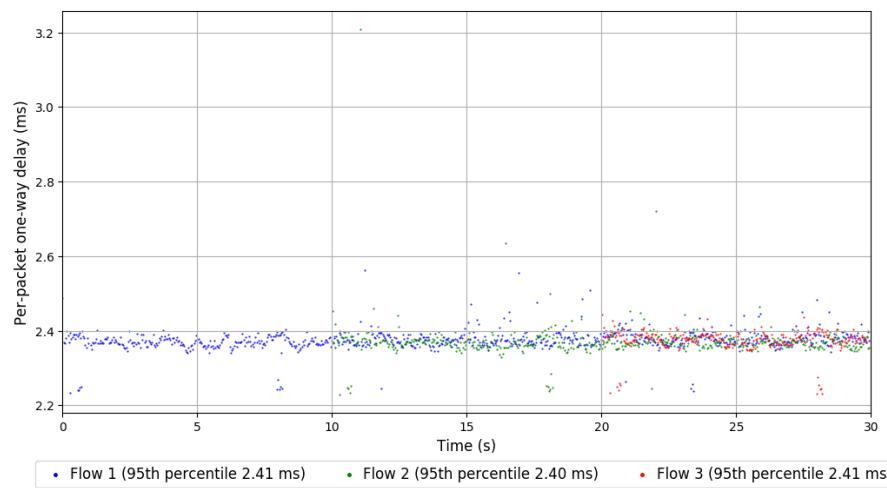
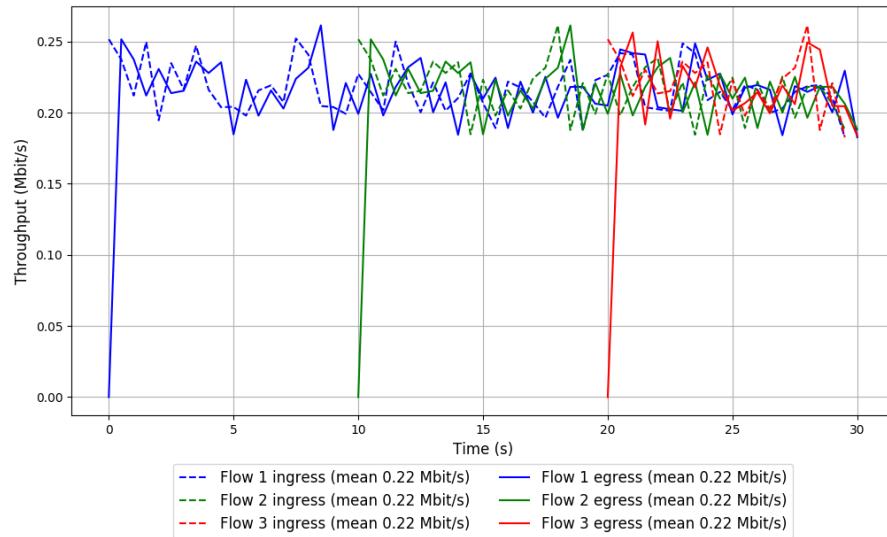


Run 8: Statistics of SCReAM

```
Start at: 2018-05-22 17:48:41
End at: 2018-05-22 17:49:11
Local clock offset: -6.034 ms
Remote clock offset: -1.659 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.405 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.407 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.402 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.406 ms
Loss rate: 0.35%
```

Run 8: Report of SCReAM — Data Link

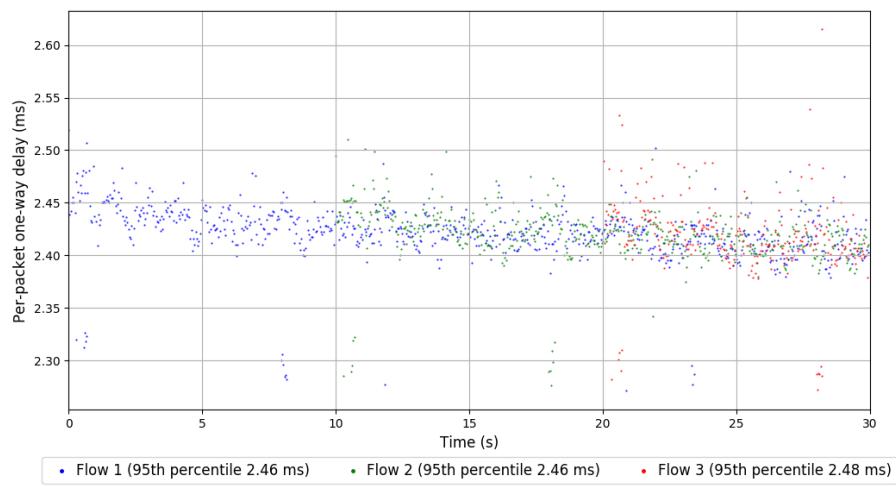
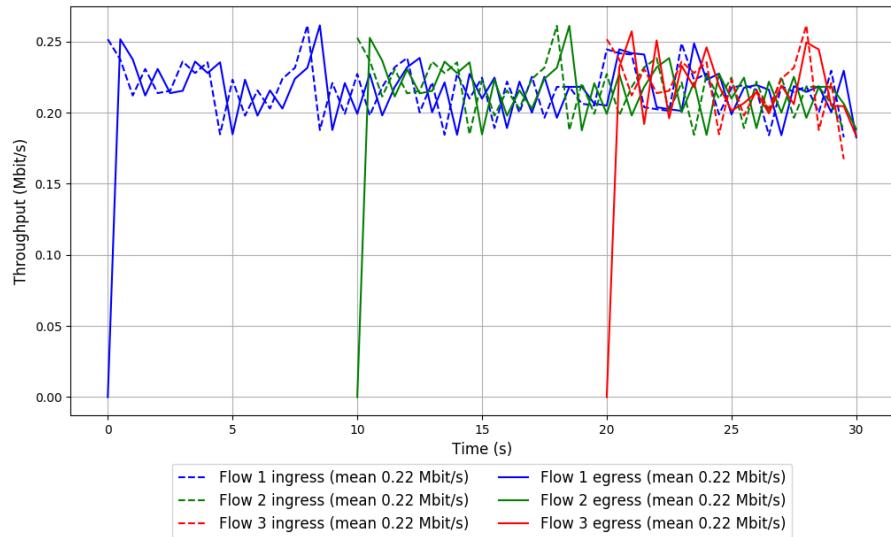


Run 9: Statistics of SCReAM

```
Start at: 2018-05-22 18:06:32
End at: 2018-05-22 18:07:02
Local clock offset: -5.831 ms
Remote clock offset: -2.875 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.455 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.455 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.481 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

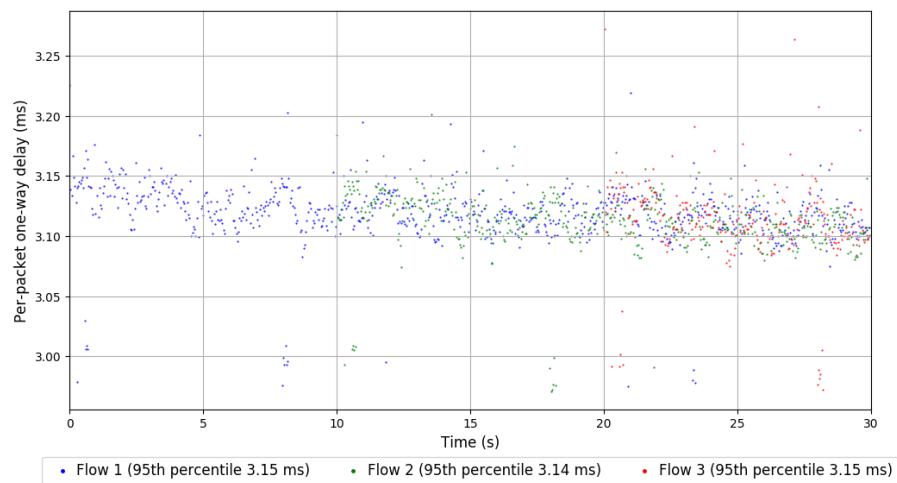
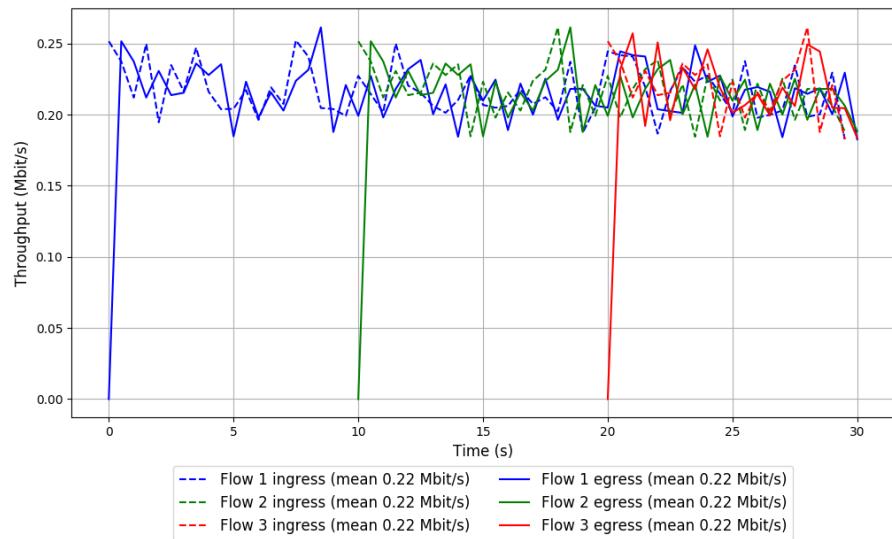


Run 10: Statistics of SCReAM

```
Start at: 2018-05-22 18:24:23
End at: 2018-05-22 18:24:53
Local clock offset: -4.97 ms
Remote clock offset: -3.459 ms

# Below is generated by plot.py at 2018-05-22 18:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.148 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.150 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.143 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.151 ms
Loss rate: 0.35%
```

Run 10: Report of SCReAM — Data Link

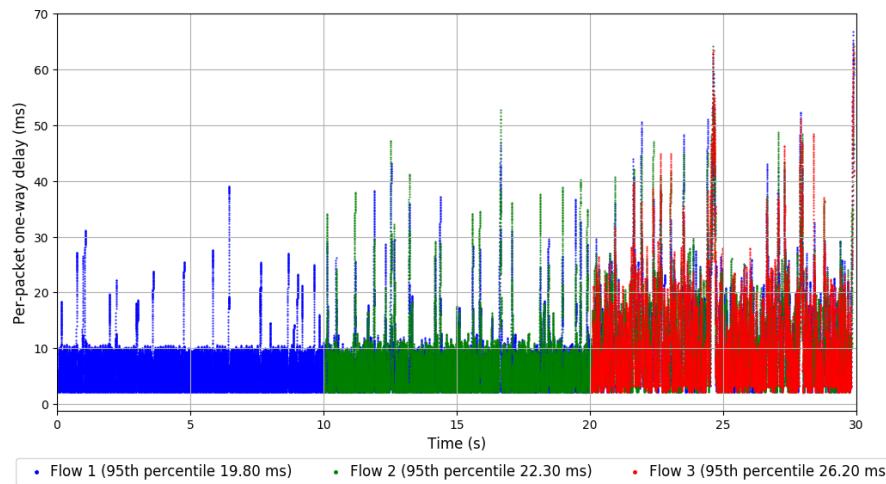
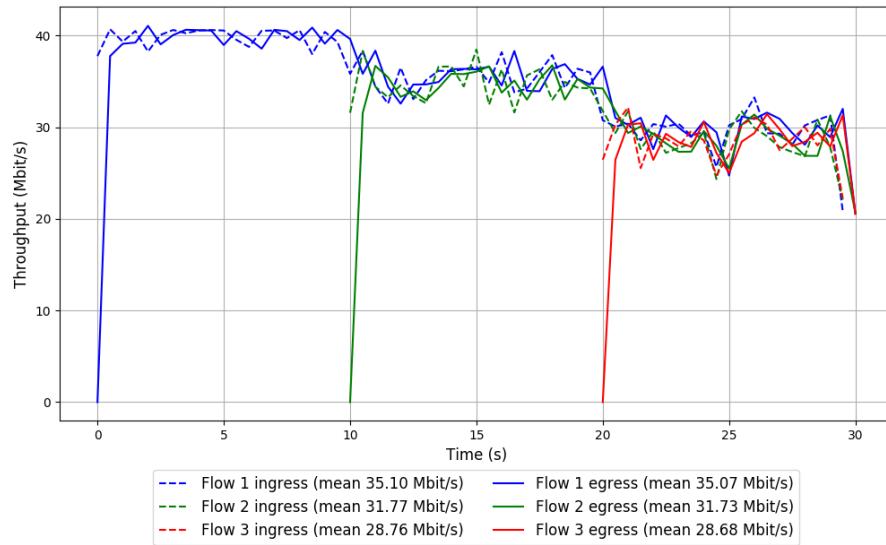


Run 1: Statistics of Sprout

```
Start at: 2018-05-22 15:47:24
End at: 2018-05-22 15:47:54
Local clock offset: -6.218 ms
Remote clock offset: -2.553 ms

# Below is generated by plot.py at 2018-05-22 18:42:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.64 Mbit/s
95th percentile per-packet one-way delay: 21.708 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 19.797 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 22.299 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 28.68 Mbit/s
95th percentile per-packet one-way delay: 26.197 ms
Loss rate: 0.35%
```

Run 1: Report of Sprout — Data Link

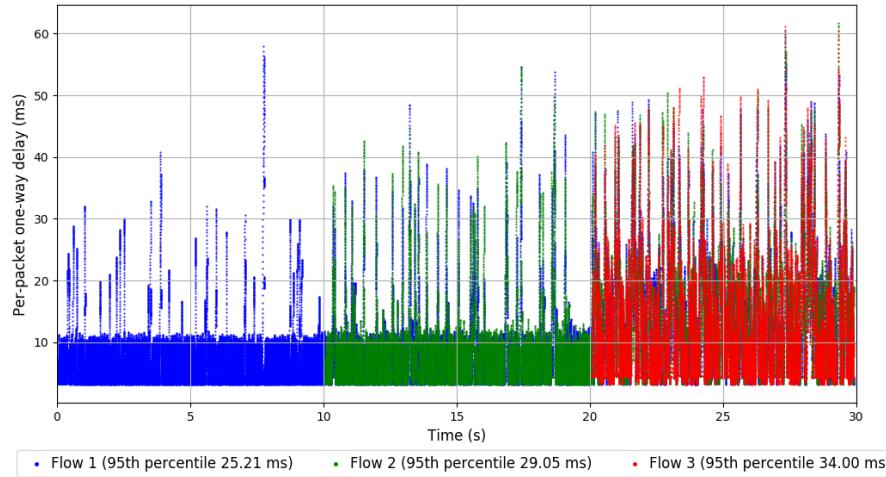
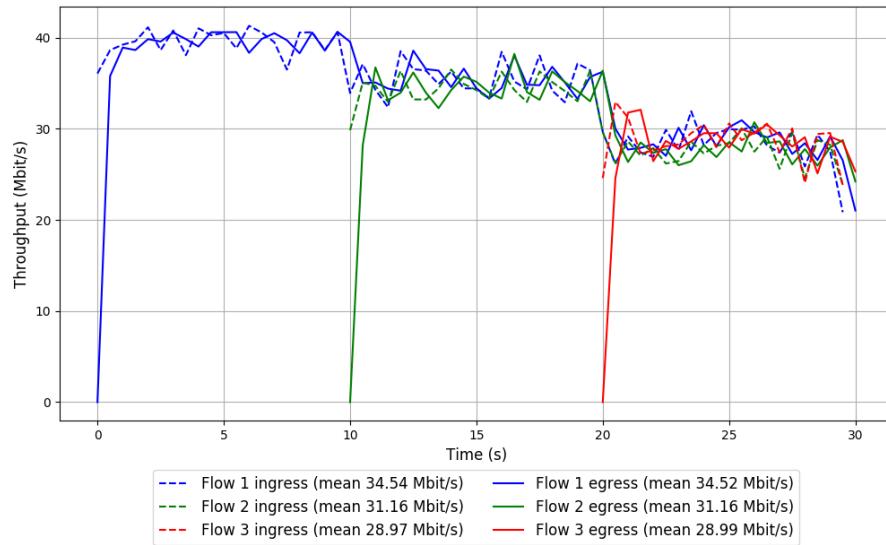


Run 2: Statistics of Sprout

```
Start at: 2018-05-22 16:05:08
End at: 2018-05-22 16:05:38
Local clock offset: -5.307 ms
Remote clock offset: -2.82 ms

# Below is generated by plot.py at 2018-05-22 18:42:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 27.975 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 25.206 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 31.16 Mbit/s
95th percentile per-packet one-way delay: 29.045 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 28.99 Mbit/s
95th percentile per-packet one-way delay: 33.997 ms
Loss rate: 0.07%
```

Run 2: Report of Sprout — Data Link

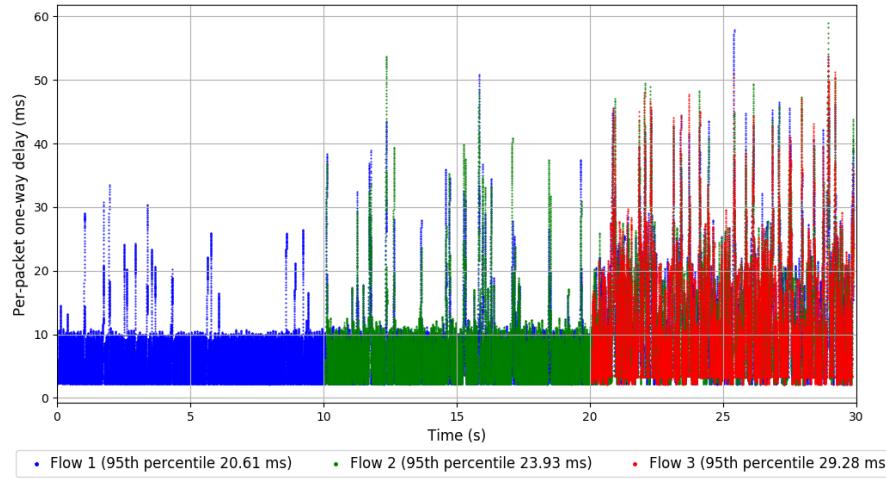
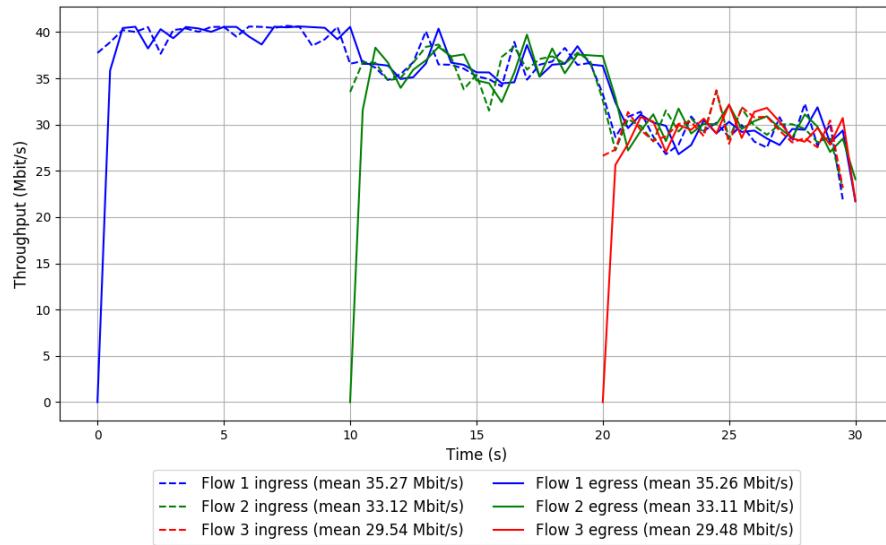


Run 3: Statistics of Sprout

```
Start at: 2018-05-22 16:22:51
End at: 2018-05-22 16:23:21
Local clock offset: -6.01 ms
Remote clock offset: -6.528 ms

# Below is generated by plot.py at 2018-05-22 18:42:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.00 Mbit/s
95th percentile per-packet one-way delay: 23.362 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 35.26 Mbit/s
95th percentile per-packet one-way delay: 20.606 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 33.11 Mbit/s
95th percentile per-packet one-way delay: 23.927 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 29.280 ms
Loss rate: 0.25%
```

Run 3: Report of Sprout — Data Link

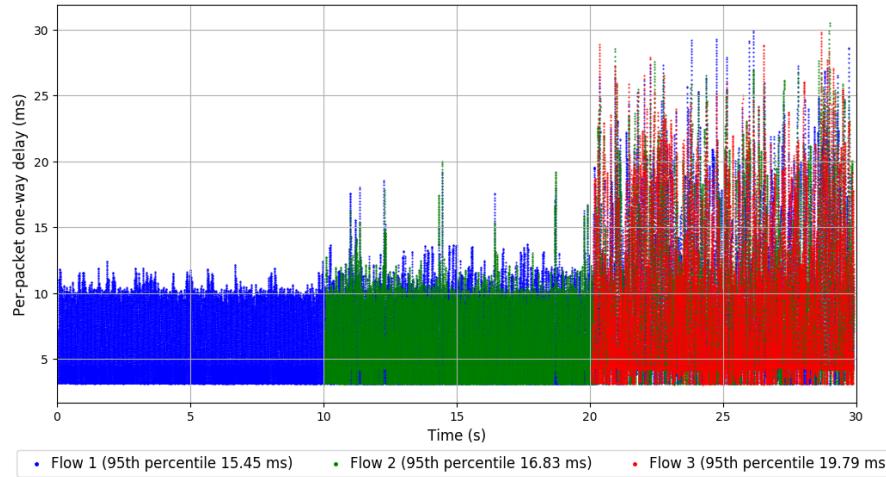
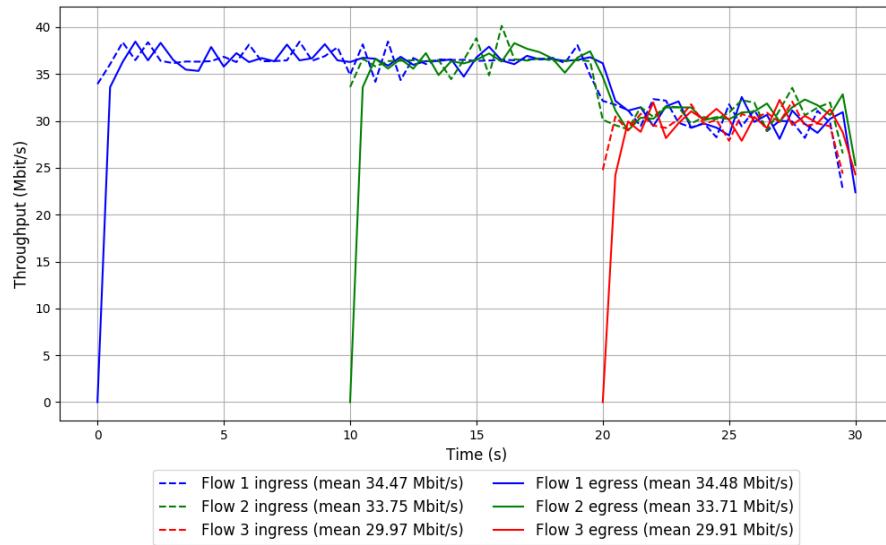


Run 4: Statistics of Sprout

```
Start at: 2018-05-22 16:40:38
End at: 2018-05-22 16:41:08
Local clock offset: -4.948 ms
Remote clock offset: -8.743 ms

# Below is generated by plot.py at 2018-05-22 18:42:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 17.162 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 15.445 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 33.71 Mbit/s
95th percentile per-packet one-way delay: 16.829 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 29.91 Mbit/s
95th percentile per-packet one-way delay: 19.785 ms
Loss rate: 0.12%
```

Run 4: Report of Sprout — Data Link

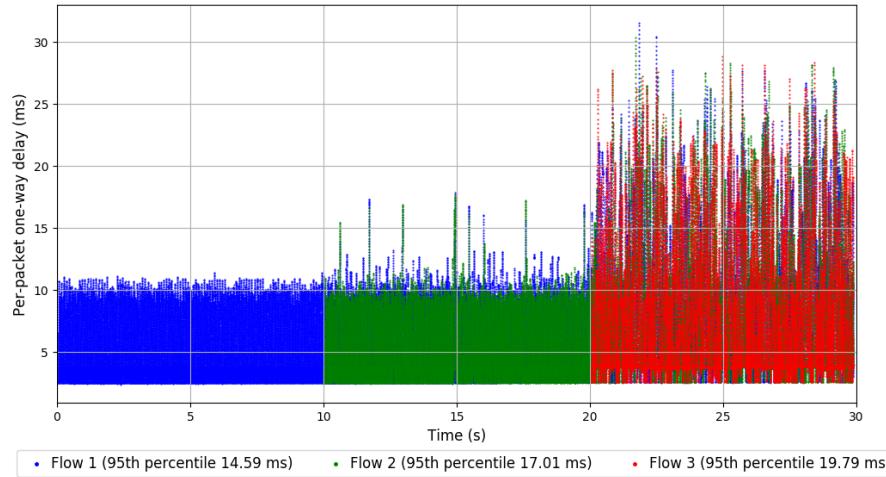
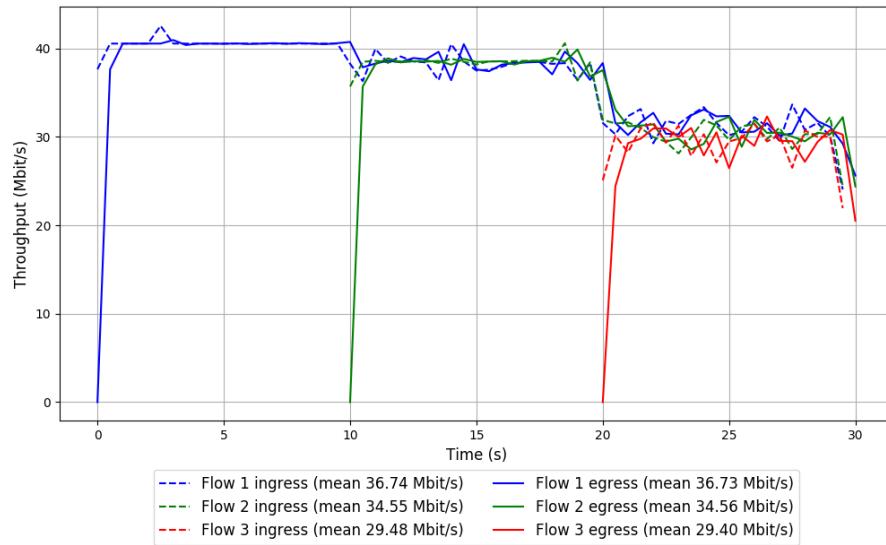


Run 5: Statistics of Sprout

```
Start at: 2018-05-22 16:58:28
End at: 2018-05-22 16:58:58
Local clock offset: -5.671 ms
Remote clock offset: -4.263 ms

# Below is generated by plot.py at 2018-05-22 18:42:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.40 Mbit/s
95th percentile per-packet one-way delay: 16.875 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 14.592 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.56 Mbit/s
95th percentile per-packet one-way delay: 17.010 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 29.40 Mbit/s
95th percentile per-packet one-way delay: 19.791 ms
Loss rate: 0.30%
```

Run 5: Report of Sprout — Data Link

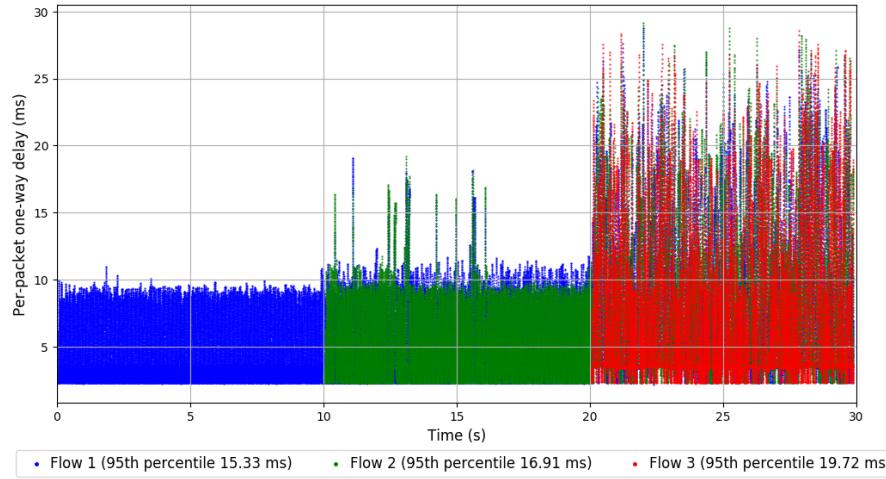
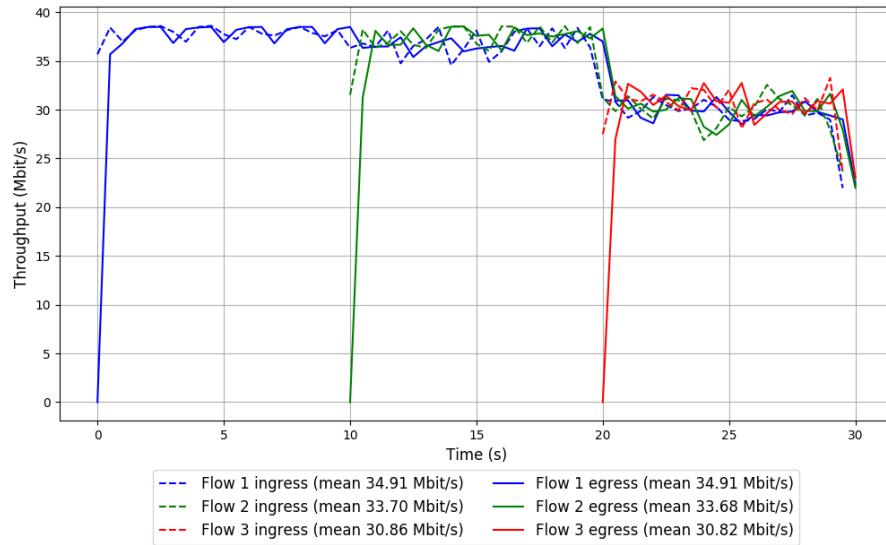


Run 6: Statistics of Sprout

```
Start at: 2018-05-22 17:16:20
End at: 2018-05-22 17:16:50
Local clock offset: -6.07 ms
Remote clock offset: -2.247 ms

# Below is generated by plot.py at 2018-05-22 18:42:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 17.072 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 15.328 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 33.68 Mbit/s
95th percentile per-packet one-way delay: 16.906 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 30.82 Mbit/s
95th percentile per-packet one-way delay: 19.718 ms
Loss rate: 0.29%
```

Run 6: Report of Sprout — Data Link

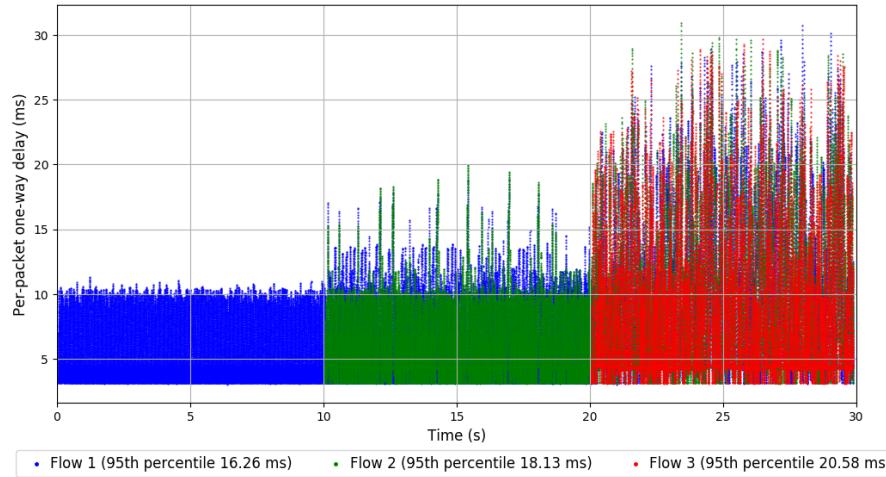
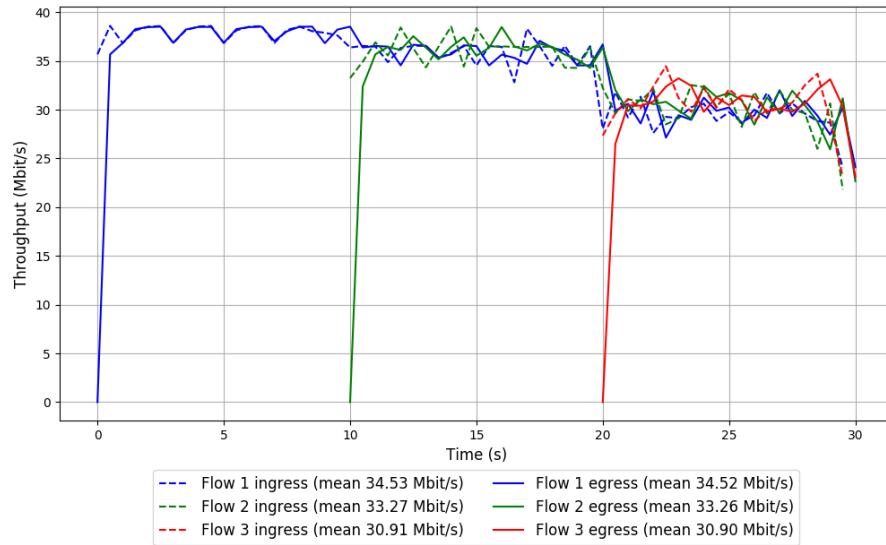


Run 7: Statistics of Sprout

```
Start at: 2018-05-22 17:34:10
End at: 2018-05-22 17:34:40
Local clock offset: -5.229 ms
Remote clock offset: -2.018 ms

# Below is generated by plot.py at 2018-05-22 18:42:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.82 Mbit/s
95th percentile per-packet one-way delay: 18.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.52 Mbit/s
95th percentile per-packet one-way delay: 16.258 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.26 Mbit/s
95th percentile per-packet one-way delay: 18.126 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.90 Mbit/s
95th percentile per-packet one-way delay: 20.582 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

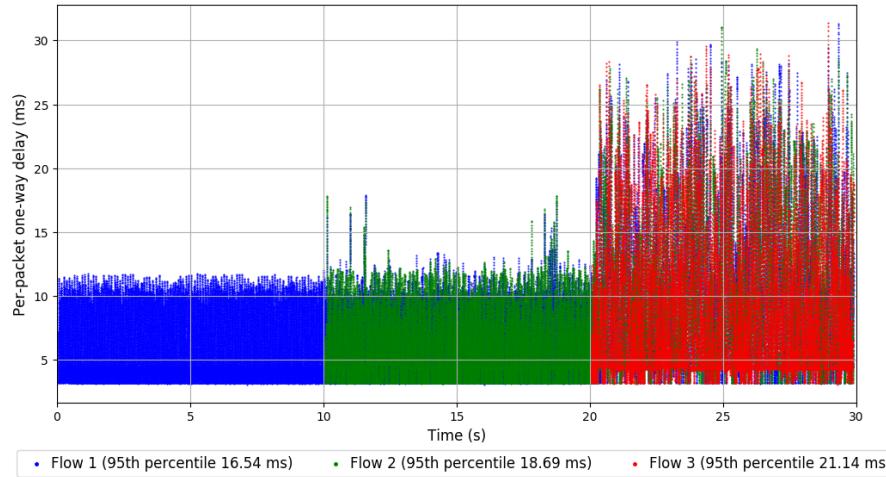
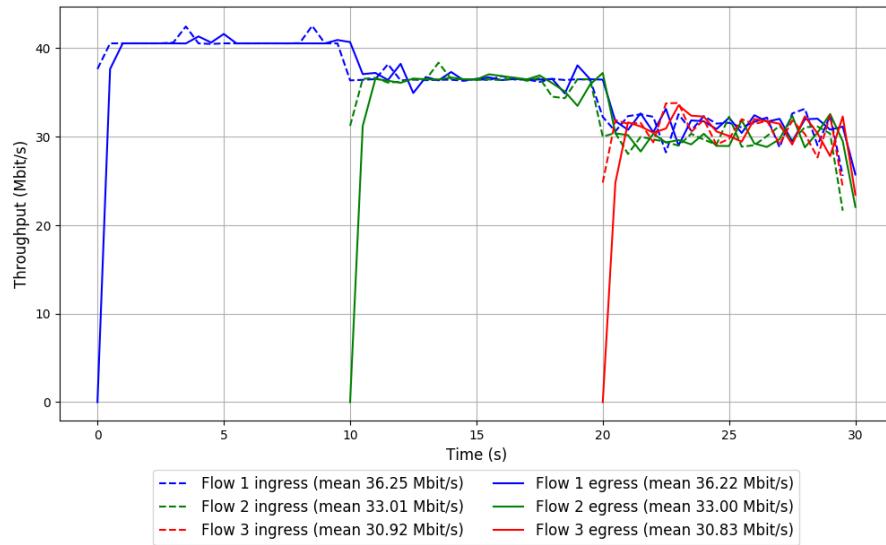


Run 8: Statistics of Sprout

```
Start at: 2018-05-22 17:52:01
End at: 2018-05-22 17:52:31
Local clock offset: -5.204 ms
Remote clock offset: -1.537 ms

# Below is generated by plot.py at 2018-05-22 18:42:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.33 Mbit/s
95th percentile per-packet one-way delay: 18.598 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 36.22 Mbit/s
95th percentile per-packet one-way delay: 16.542 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 18.689 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.83 Mbit/s
95th percentile per-packet one-way delay: 21.136 ms
Loss rate: 0.17%
```

Run 8: Report of Sprout — Data Link

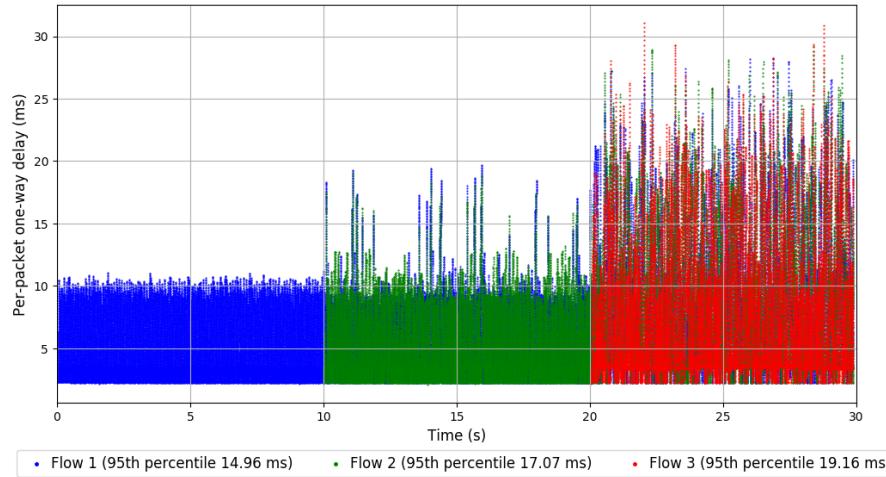
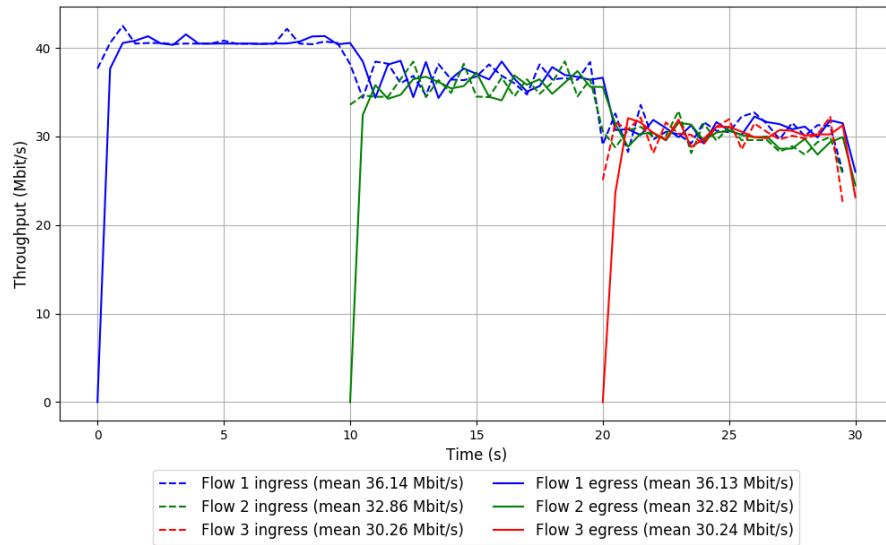


Run 9: Statistics of Sprout

```
Start at: 2018-05-22 18:09:52
End at: 2018-05-22 18:10:22
Local clock offset: -5.891 ms
Remote clock offset: -2.964 ms

# Below is generated by plot.py at 2018-05-22 18:42:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.93 Mbit/s
95th percentile per-packet one-way delay: 16.810 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 36.13 Mbit/s
95th percentile per-packet one-way delay: 14.962 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 17.065 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 30.24 Mbit/s
95th percentile per-packet one-way delay: 19.164 ms
Loss rate: 0.05%
```

Run 9: Report of Sprout — Data Link

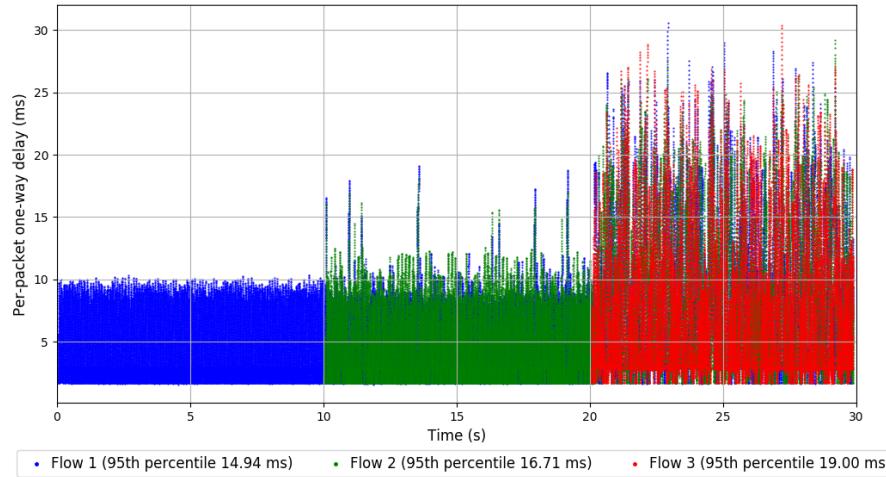
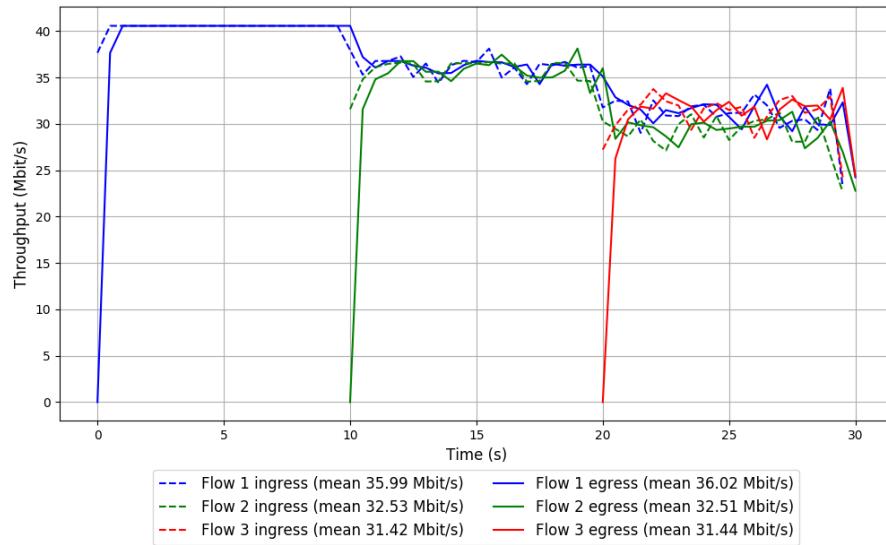


Run 10: Statistics of Sprout

```
Start at: 2018-05-22 18:27:43
End at: 2018-05-22 18:28:13
Local clock offset: -6.506 ms
Remote clock offset: -3.618 ms

# Below is generated by plot.py at 2018-05-22 18:42:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.99 Mbit/s
95th percentile per-packet one-way delay: 16.584 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 36.02 Mbit/s
95th percentile per-packet one-way delay: 14.939 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 32.51 Mbit/s
95th percentile per-packet one-way delay: 16.708 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 19.003 ms
Loss rate: 0.06%
```

Run 10: Report of Sprout — Data Link

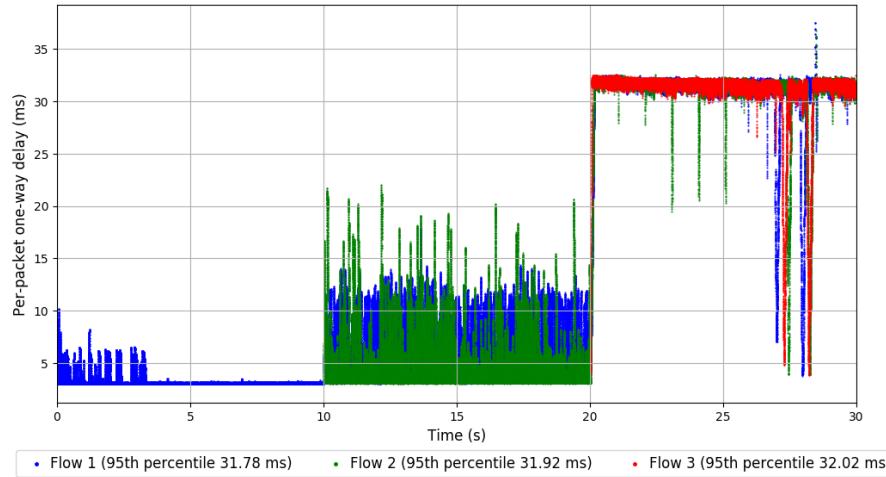
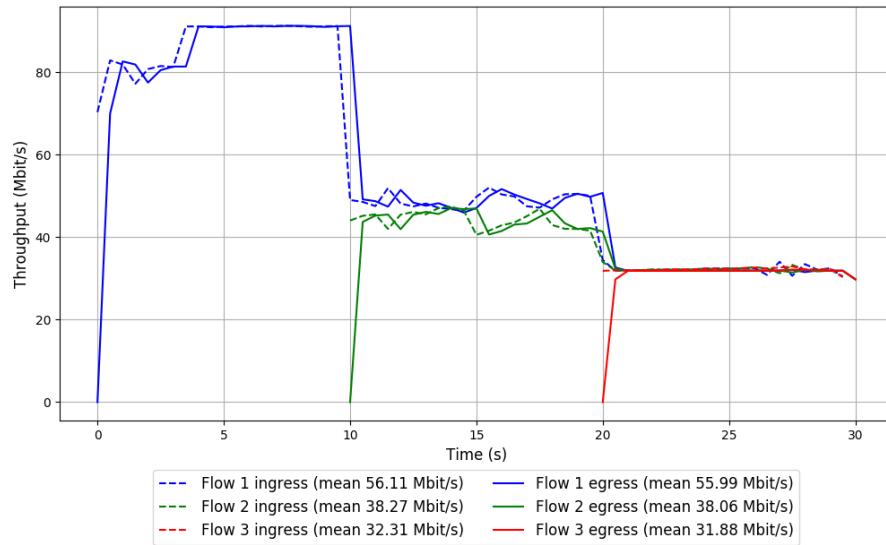


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-05-22 15:35:10
End at: 2018-05-22 15:35:40
Local clock offset: -5.308 ms
Remote clock offset: -2.039 ms

# Below is generated by plot.py at 2018-05-22 18:44:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 31.891 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 31.777 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 38.06 Mbit/s
95th percentile per-packet one-way delay: 31.921 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 32.015 ms
Loss rate: 1.49%
```

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

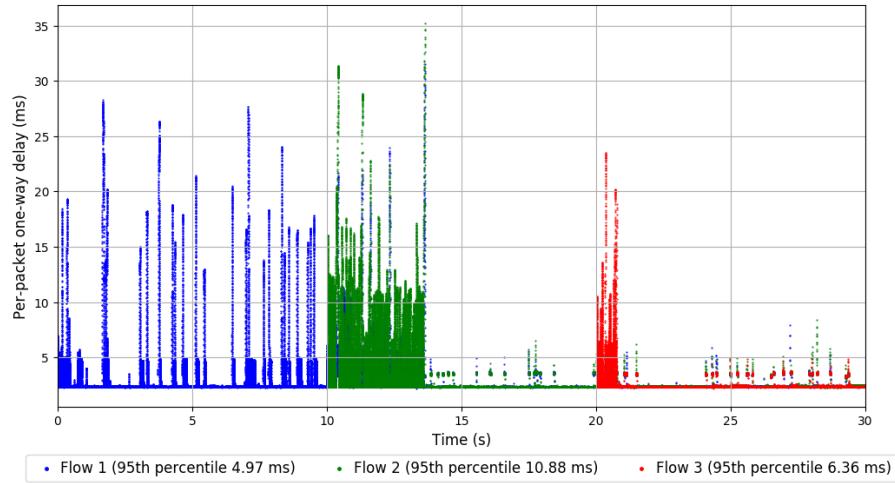
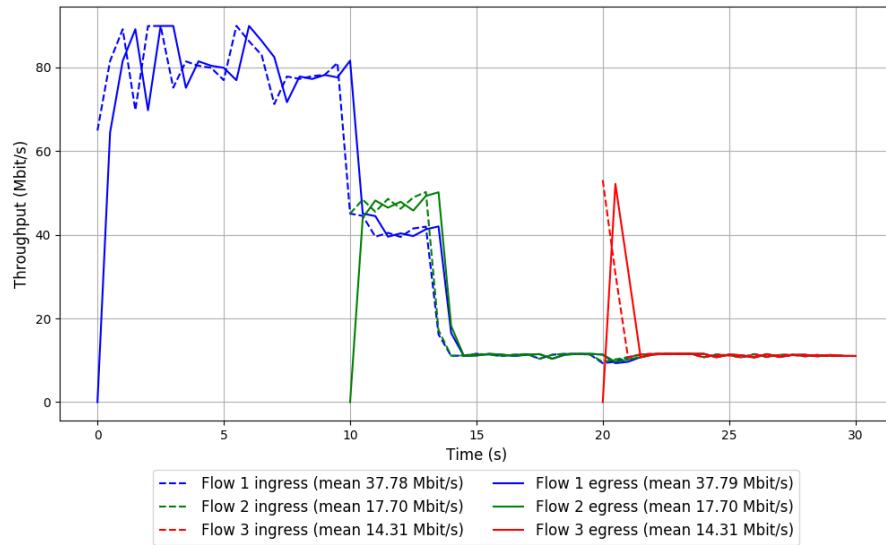


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-05-22 15:52:57
End at: 2018-05-22 15:53:27
Local clock offset: -6.167 ms
Remote clock offset: -2.729 ms

# Below is generated by plot.py at 2018-05-22 18:44:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 8.042 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 37.79 Mbit/s
95th percentile per-packet one-way delay: 4.973 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.70 Mbit/s
95th percentile per-packet one-way delay: 10.880 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 6.364 ms
Loss rate: 0.03%
```

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

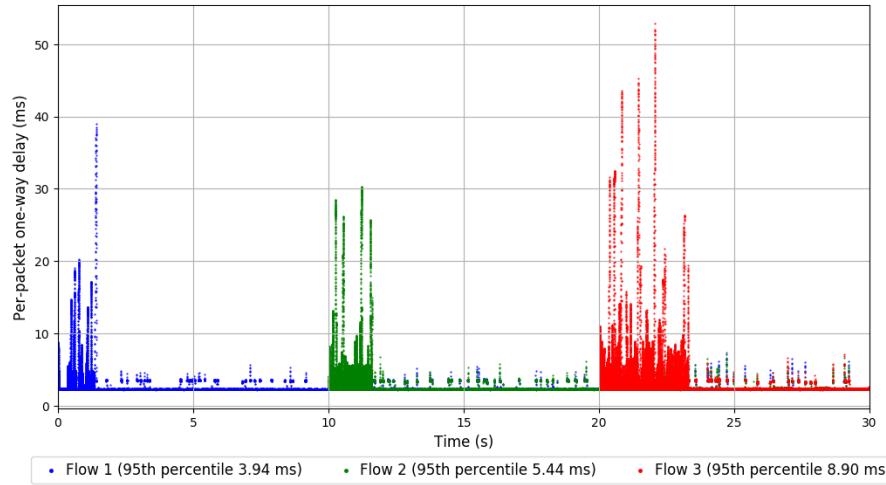
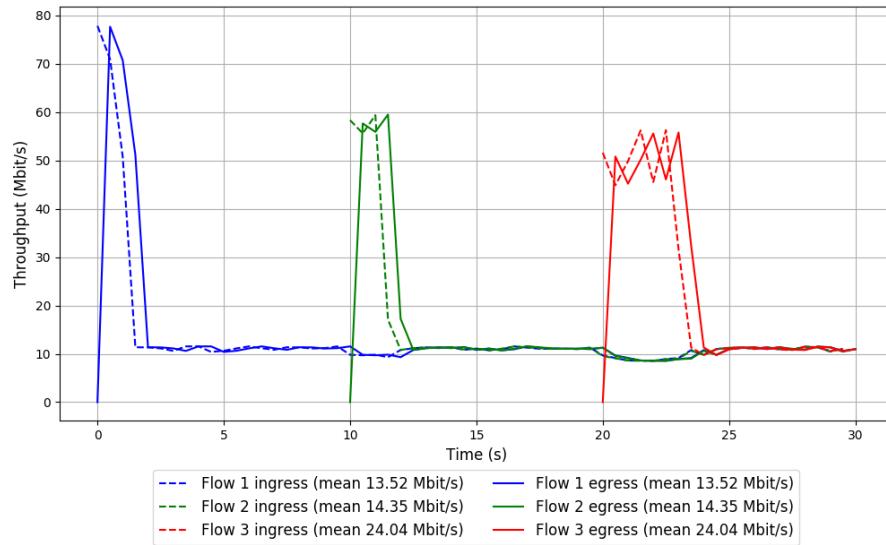


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-05-22 16:10:41
End at: 2018-05-22 16:11:11
Local clock offset: -6.039 ms
Remote clock offset: -2.691 ms

# Below is generated by plot.py at 2018-05-22 18:44:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 6.056 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 3.944 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 14.35 Mbit/s
95th percentile per-packet one-way delay: 5.437 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 8.901 ms
Loss rate: 0.02%
```

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

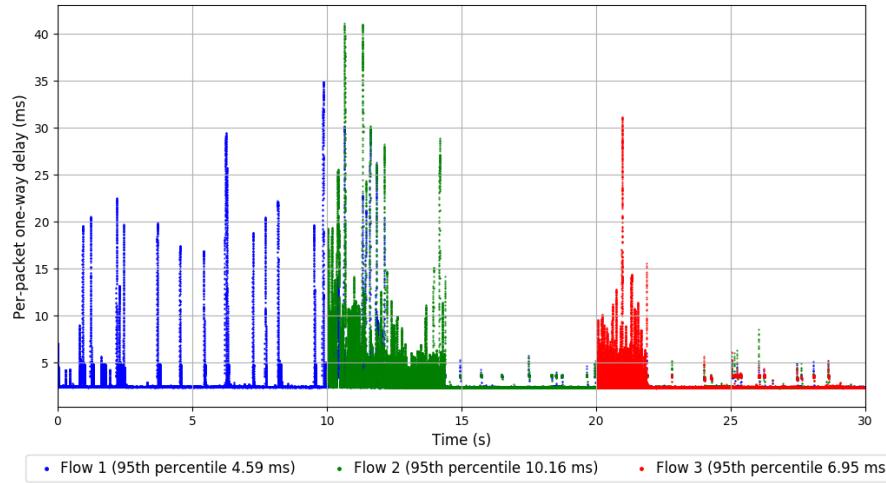
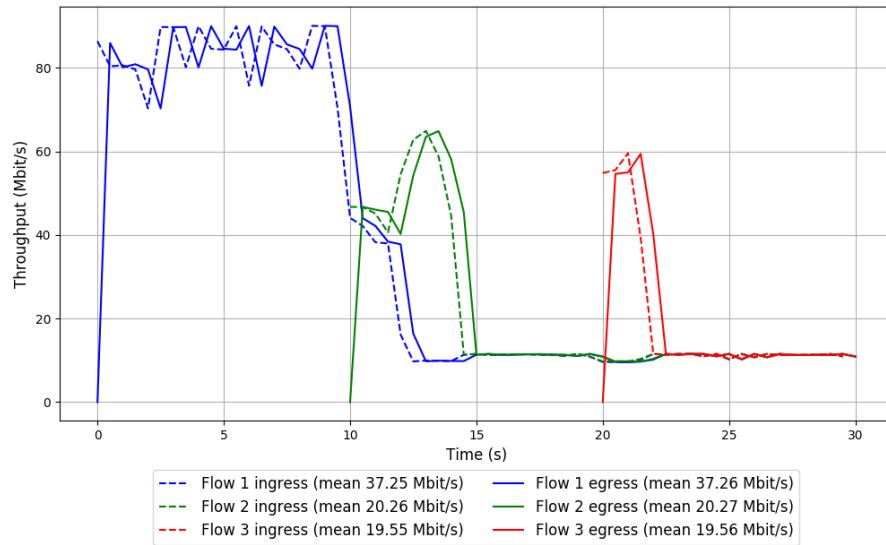


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-05-22 16:28:25
End at: 2018-05-22 16:28:55
Local clock offset: -5.95 ms
Remote clock offset: -7.654 ms

# Below is generated by plot.py at 2018-05-22 18:44:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 6.535 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 37.26 Mbit/s
95th percentile per-packet one-way delay: 4.586 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 10.159 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 19.56 Mbit/s
95th percentile per-packet one-way delay: 6.953 ms
Loss rate: 0.02%
```

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

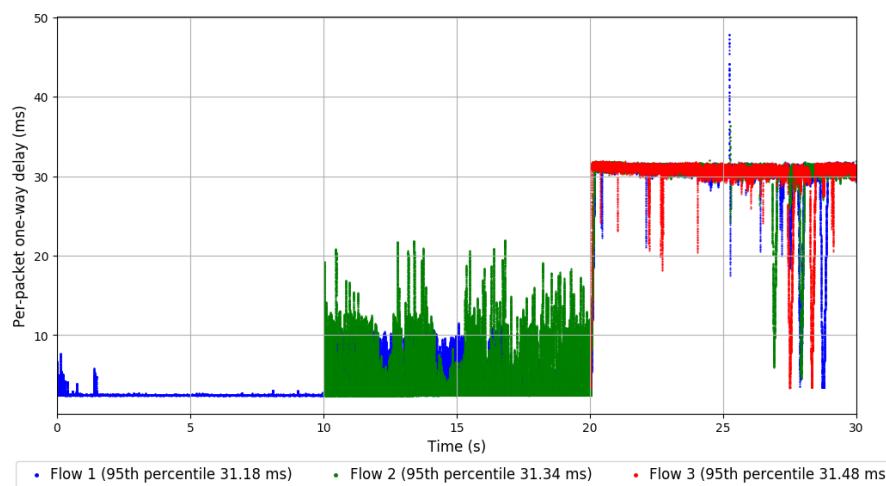
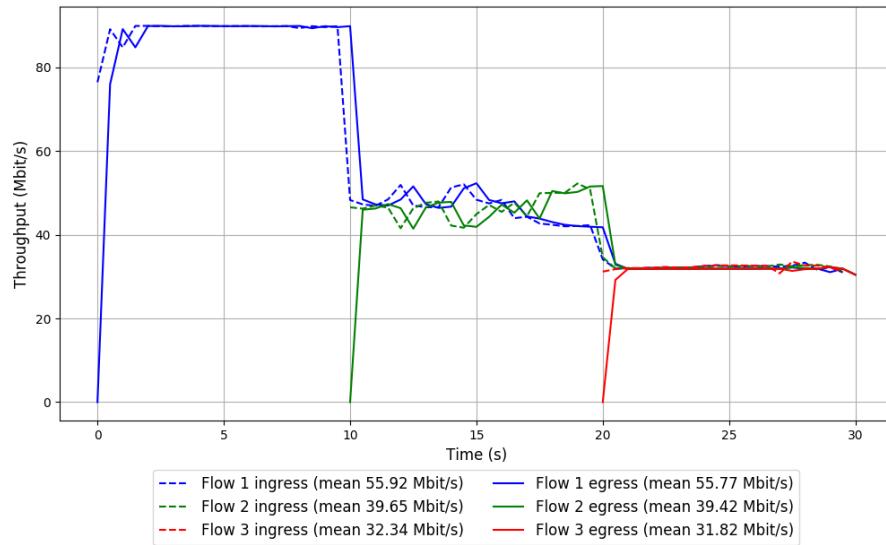


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-05-22 16:46:13
End at: 2018-05-22 16:46:43
Local clock offset: -5.641 ms
Remote clock offset: -9.072 ms

# Below is generated by plot.py at 2018-05-22 18:44:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 31.307 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 55.77 Mbit/s
95th percentile per-packet one-way delay: 31.178 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 39.42 Mbit/s
95th percentile per-packet one-way delay: 31.343 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 31.82 Mbit/s
95th percentile per-packet one-way delay: 31.476 ms
Loss rate: 1.78%
```

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

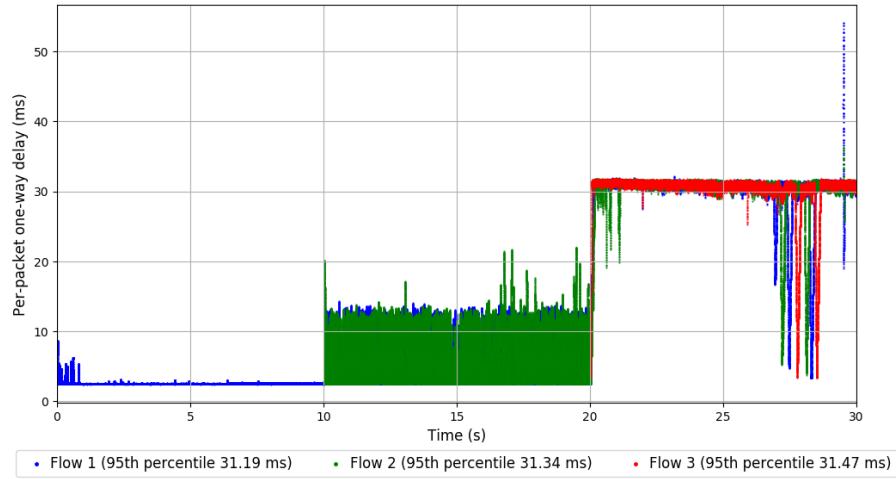
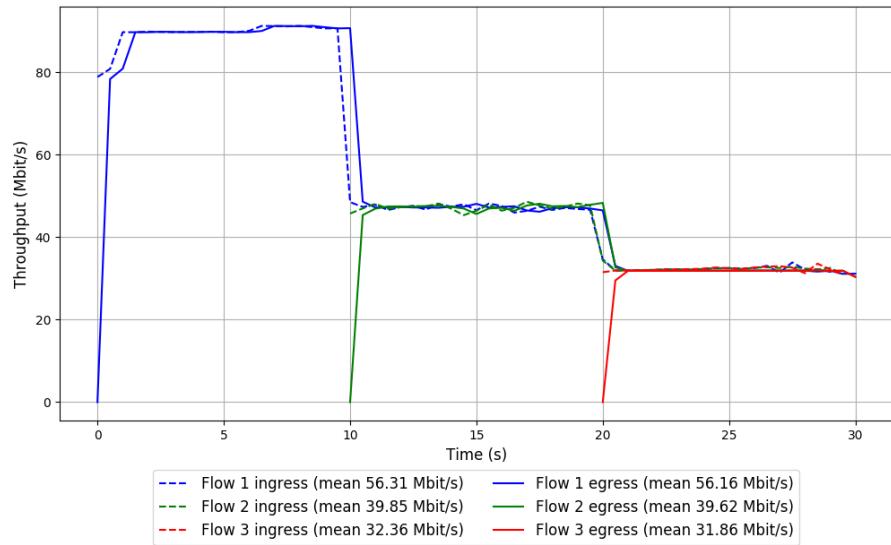


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-05-22 17:04:04
End at: 2018-05-22 17:04:34
Local clock offset: -5.869 ms
Remote clock offset: -3.42 ms

# Below is generated by plot.py at 2018-05-22 18:44:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 31.317 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 56.16 Mbit/s
95th percentile per-packet one-way delay: 31.186 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 39.62 Mbit/s
95th percentile per-packet one-way delay: 31.343 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 31.468 ms
Loss rate: 1.74%
```

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

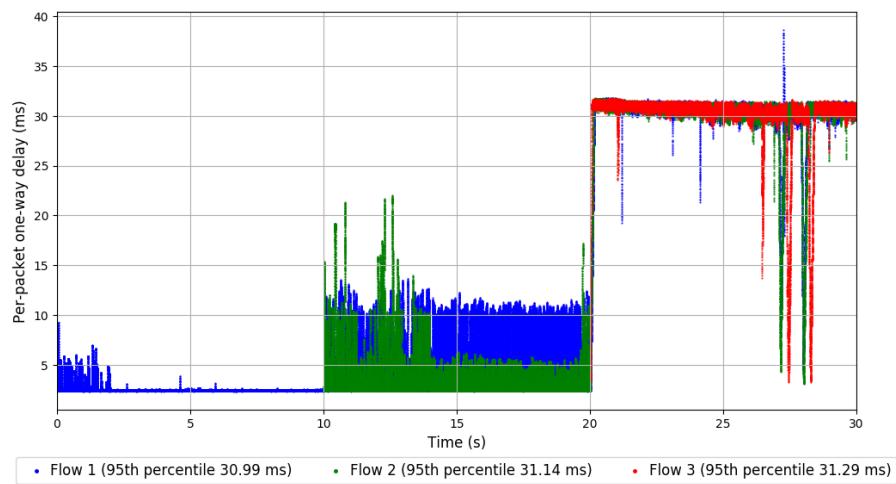
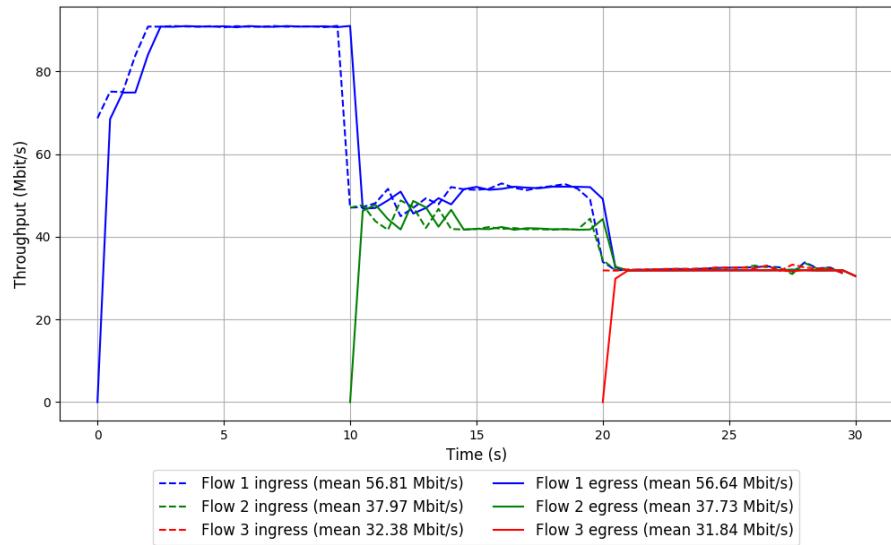


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-05-22 17:21:55
End at: 2018-05-22 17:22:25
Local clock offset: -6.039 ms
Remote clock offset: -2.082 ms

# Below is generated by plot.py at 2018-05-22 18:44:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.34 Mbit/s
95th percentile per-packet one-way delay: 31.127 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 56.64 Mbit/s
95th percentile per-packet one-way delay: 30.993 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 37.73 Mbit/s
95th percentile per-packet one-way delay: 31.144 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 31.288 ms
Loss rate: 1.73%
```

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

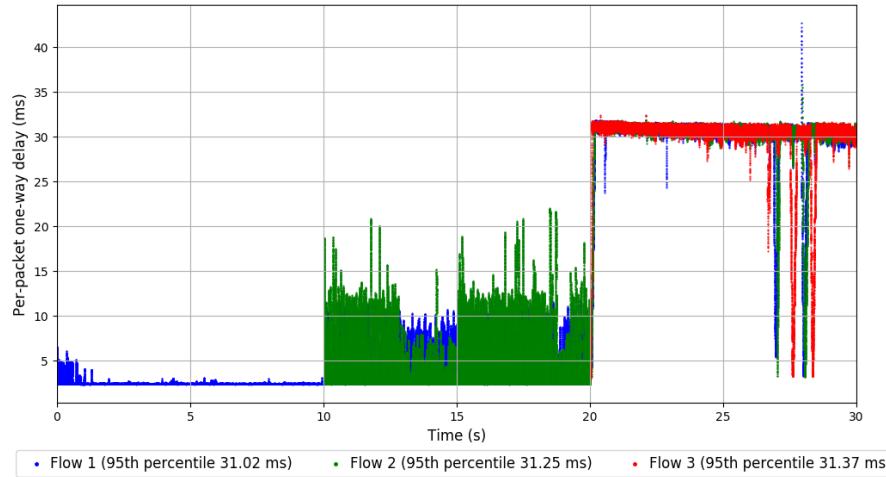
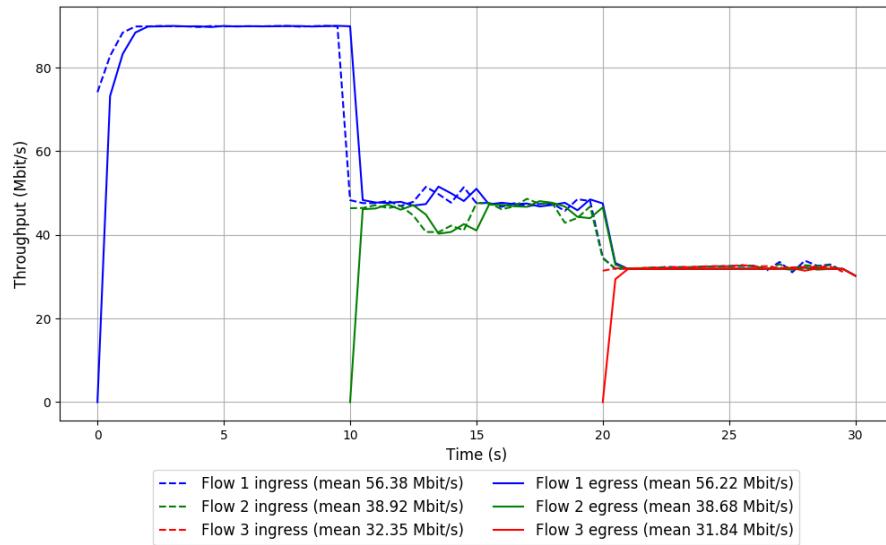


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-05-22 17:39:46
End at: 2018-05-22 17:40:16
Local clock offset: -5.976 ms
Remote clock offset: -1.927 ms

# Below is generated by plot.py at 2018-05-22 18:44:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 31.186 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 56.22 Mbit/s
95th percentile per-packet one-way delay: 31.017 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 38.68 Mbit/s
95th percentile per-packet one-way delay: 31.245 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 31.373 ms
Loss rate: 1.69%
```

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

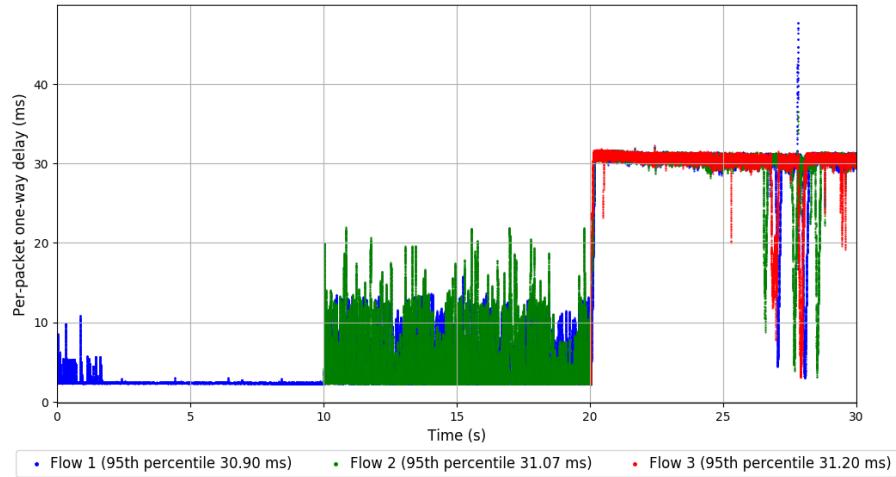
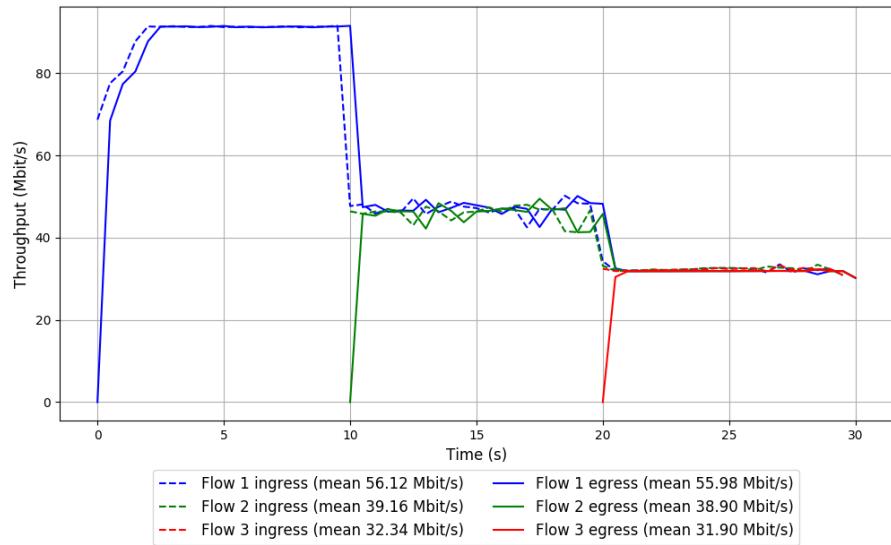


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-05-22 17:57:38
End at: 2018-05-22 17:58:08
Local clock offset: -5.943 ms
Remote clock offset: -1.897 ms

# Below is generated by plot.py at 2018-05-22 18:45:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 31.036 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 30.896 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 38.90 Mbit/s
95th percentile per-packet one-way delay: 31.065 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 31.197 ms
Loss rate: 1.54%
```

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

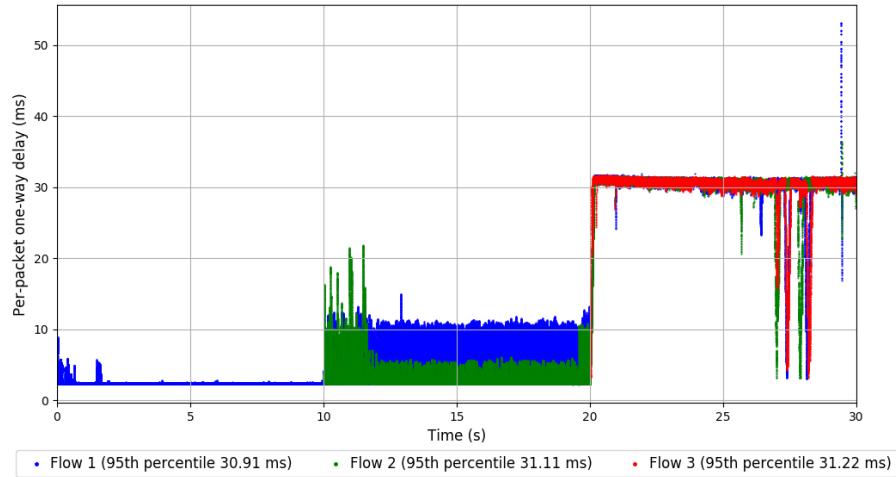
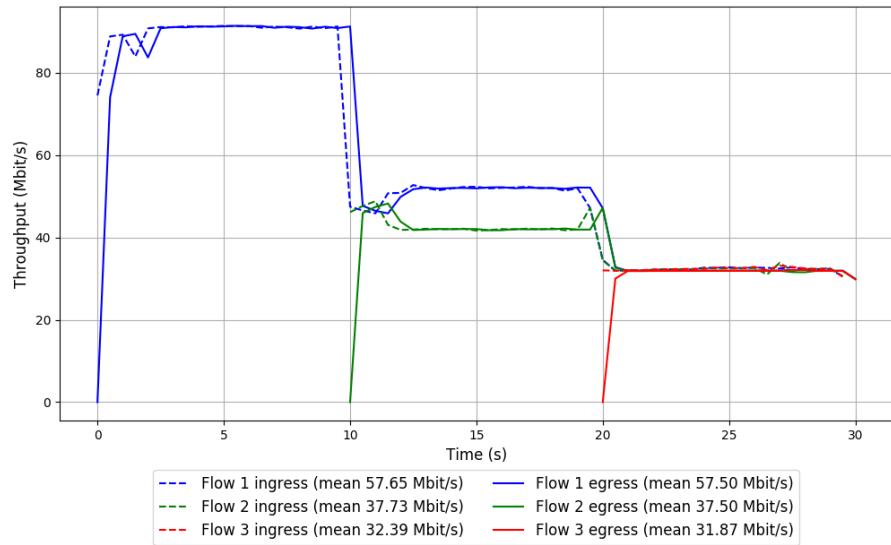


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-05-22 18:15:28
End at: 2018-05-22 18:15:58
Local clock offset: -5.778 ms
Remote clock offset: -3.164 ms

# Below is generated by plot.py at 2018-05-22 18:45:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 31.065 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 57.50 Mbit/s
95th percentile per-packet one-way delay: 30.915 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 37.50 Mbit/s
95th percentile per-packet one-way delay: 31.110 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 31.217 ms
Loss rate: 1.78%
```

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

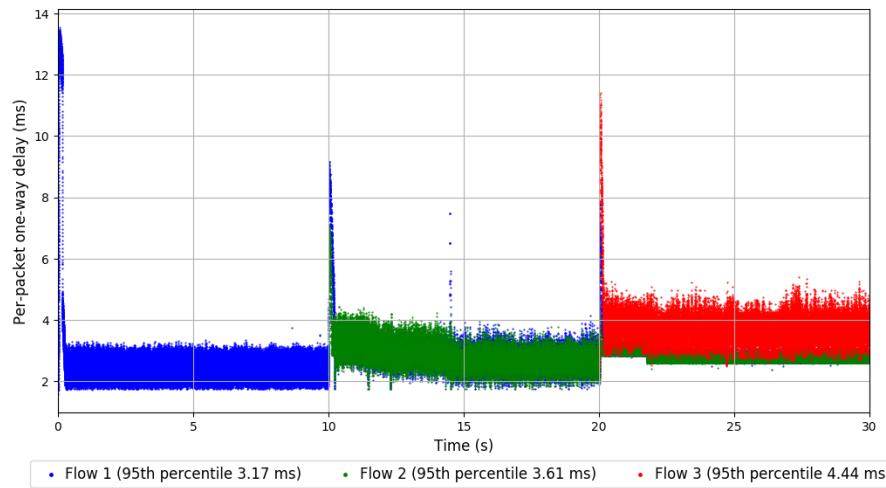
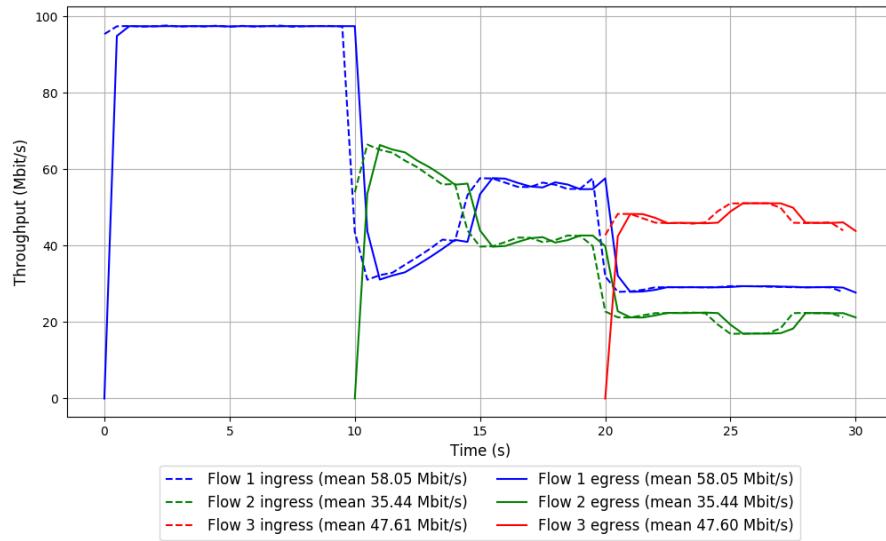


Run 1: Statistics of TCP Vegas

```
Start at: 2018-05-22 15:36:20
End at: 2018-05-22 15:36:50
Local clock offset: -6.842 ms
Remote clock offset: -2.145 ms

# Below is generated by plot.py at 2018-05-22 18:45:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 4.050 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.05 Mbit/s
95th percentile per-packet one-way delay: 3.170 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 35.44 Mbit/s
95th percentile per-packet one-way delay: 3.614 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 47.60 Mbit/s
95th percentile per-packet one-way delay: 4.440 ms
Loss rate: 0.05%
```

Run 1: Report of TCP Vegas — Data Link

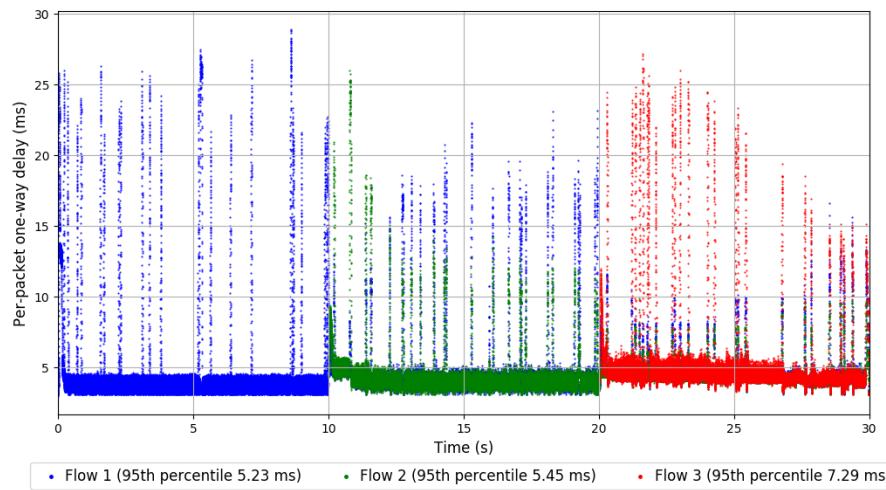
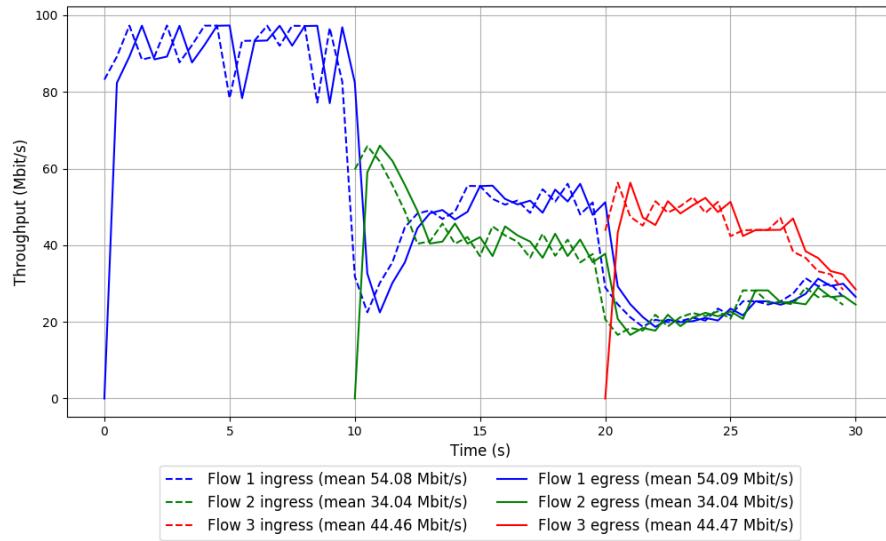


Run 2: Statistics of TCP Vegas

```
Start at: 2018-05-22 15:54:05
End at: 2018-05-22 15:54:35
Local clock offset: -5.415 ms
Remote clock offset: -2.712 ms

# Below is generated by plot.py at 2018-05-22 18:45:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.52 Mbit/s
95th percentile per-packet one-way delay: 5.674 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.09 Mbit/s
95th percentile per-packet one-way delay: 5.230 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 34.04 Mbit/s
95th percentile per-packet one-way delay: 5.454 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 44.47 Mbit/s
95th percentile per-packet one-way delay: 7.291 ms
Loss rate: 0.02%
```

Run 2: Report of TCP Vegas — Data Link

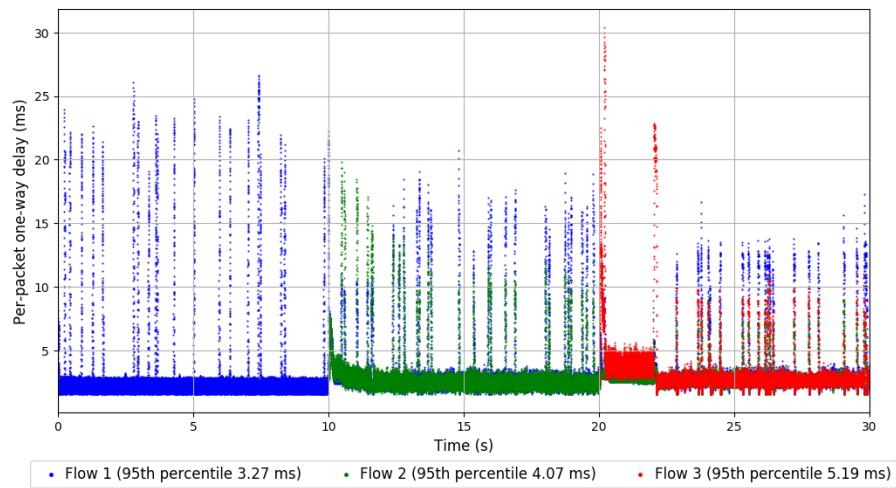
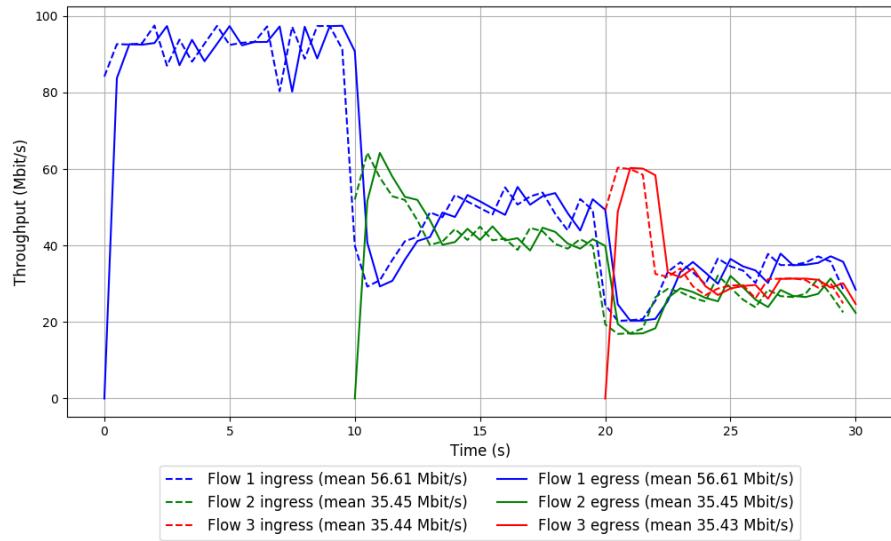


Run 3: Statistics of TCP Vegas

```
Start at: 2018-05-22 16:11:47
End at: 2018-05-22 16:12:17
Local clock offset: -6.8 ms
Remote clock offset: -2.688 ms

# Below is generated by plot.py at 2018-05-22 18:45:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.99 Mbit/s
95th percentile per-packet one-way delay: 4.315 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 56.61 Mbit/s
95th percentile per-packet one-way delay: 3.267 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 35.45 Mbit/s
95th percentile per-packet one-way delay: 4.073 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 35.43 Mbit/s
95th percentile per-packet one-way delay: 5.192 ms
Loss rate: 0.04%
```

Run 3: Report of TCP Vegas — Data Link

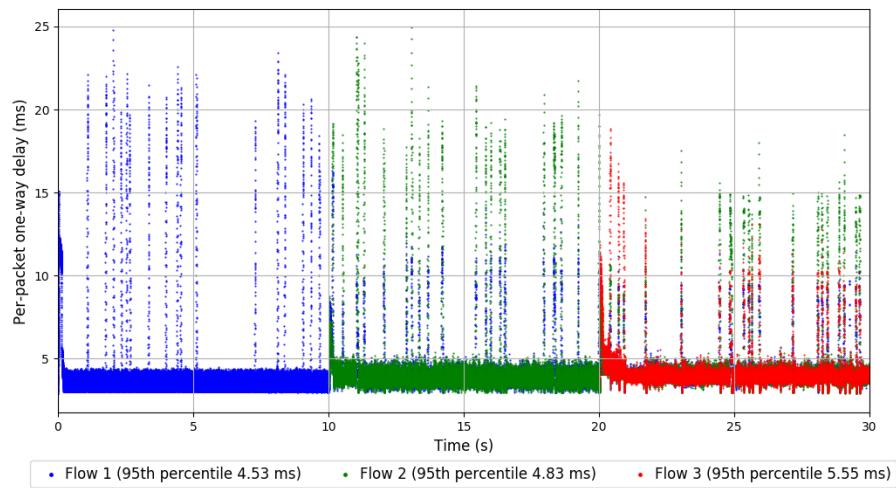
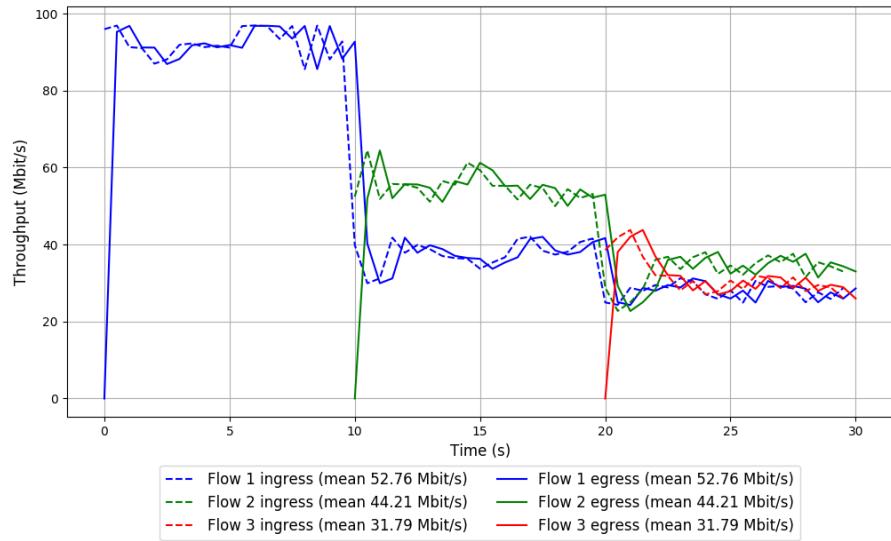


Run 4: Statistics of TCP Vegas

```
Start at: 2018-05-22 16:29:33
End at: 2018-05-22 16:30:03
Local clock offset: -5.156 ms
Remote clock offset: -7.664 ms

# Below is generated by plot.py at 2018-05-22 18:45:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 4.760 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 4.533 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 44.21 Mbit/s
95th percentile per-packet one-way delay: 4.835 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 5.552 ms
Loss rate: 0.04%
```

Run 4: Report of TCP Vegas — Data Link

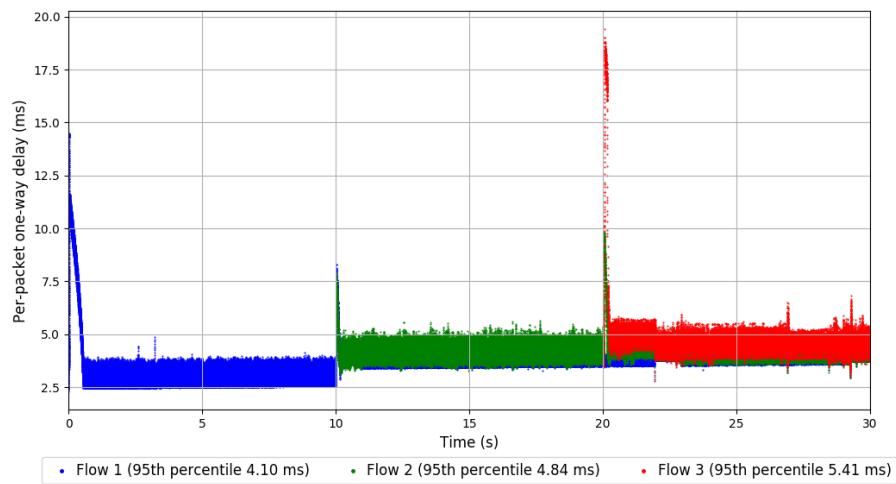
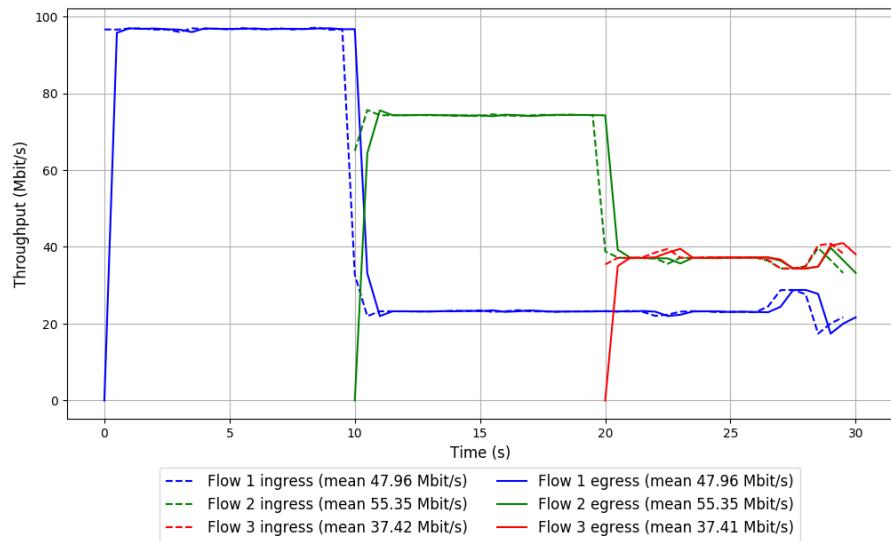


Run 5: Statistics of TCP Vegas

```
Start at: 2018-05-22 16:47:23
End at: 2018-05-22 16:47:53
Local clock offset: -5.699 ms
Remote clock offset: -8.488 ms

# Below is generated by plot.py at 2018-05-22 18:46:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.25 Mbit/s
95th percentile per-packet one-way delay: 5.013 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 47.96 Mbit/s
95th percentile per-packet one-way delay: 4.104 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 4.837 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 5.410 ms
Loss rate: 0.07%
```

Run 5: Report of TCP Vegas — Data Link

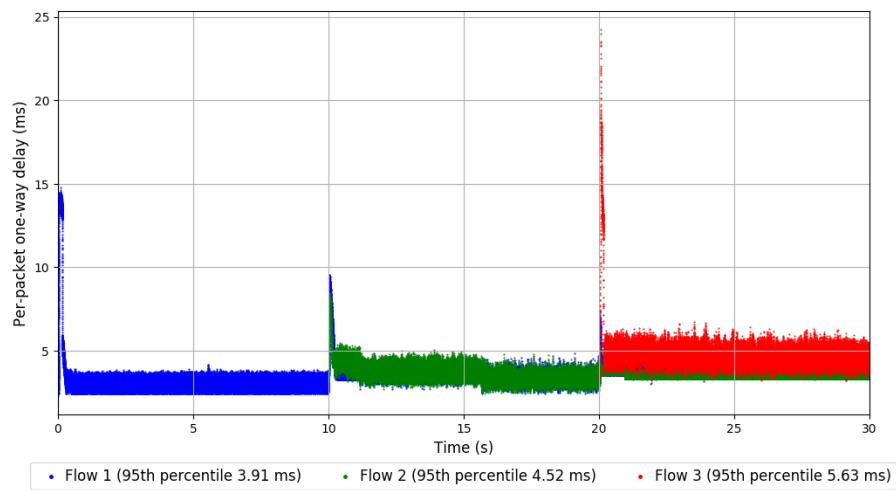
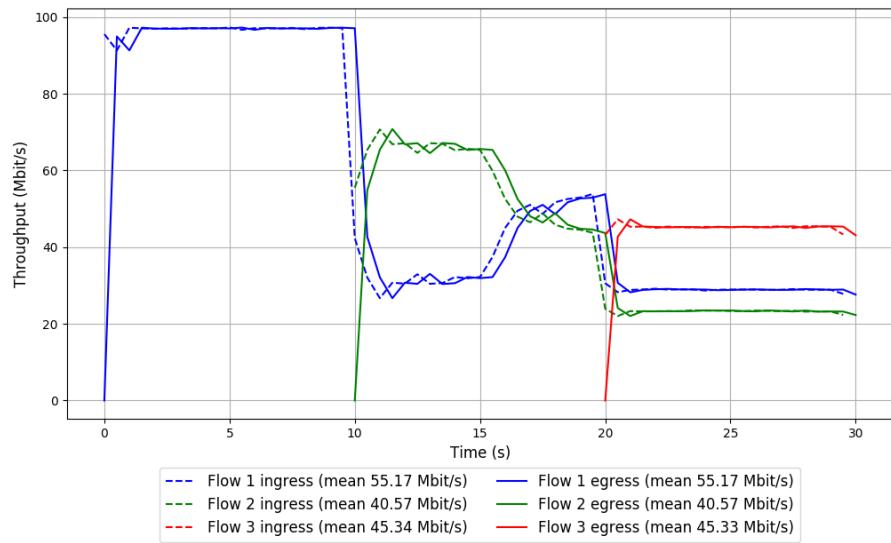


Run 6: Statistics of TCP Vegas

```
Start at: 2018-05-22 17:05:15
End at: 2018-05-22 17:05:45
Local clock offset: -5.935 ms
Remote clock offset: -3.238 ms

# Below is generated by plot.py at 2018-05-22 18:46:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 5.103 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 55.17 Mbit/s
95th percentile per-packet one-way delay: 3.913 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 40.57 Mbit/s
95th percentile per-packet one-way delay: 4.522 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 45.33 Mbit/s
95th percentile per-packet one-way delay: 5.626 ms
Loss rate: 0.07%
```

Run 6: Report of TCP Vegas — Data Link

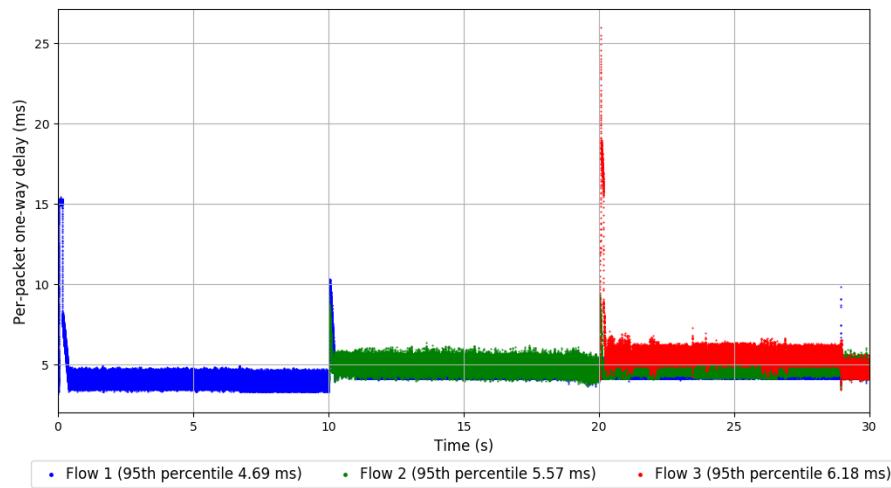
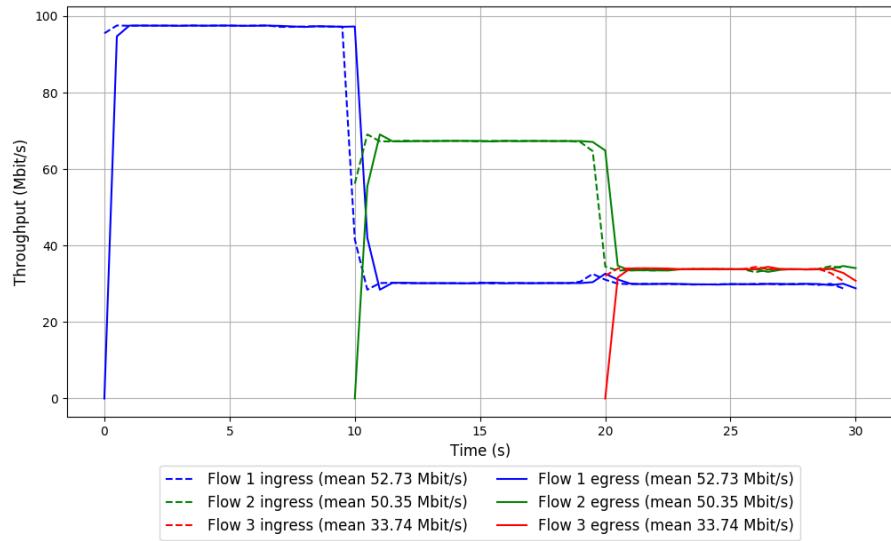


Run 7: Statistics of TCP Vegas

```
Start at: 2018-05-22 17:23:06
End at: 2018-05-22 17:23:36
Local clock offset: -5.282 ms
Remote clock offset: -2.243 ms

# Below is generated by plot.py at 2018-05-22 18:46:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 5.772 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 52.73 Mbit/s
95th percentile per-packet one-way delay: 4.690 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 5.568 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 33.74 Mbit/s
95th percentile per-packet one-way delay: 6.184 ms
Loss rate: 0.05%
```

Run 7: Report of TCP Vegas — Data Link

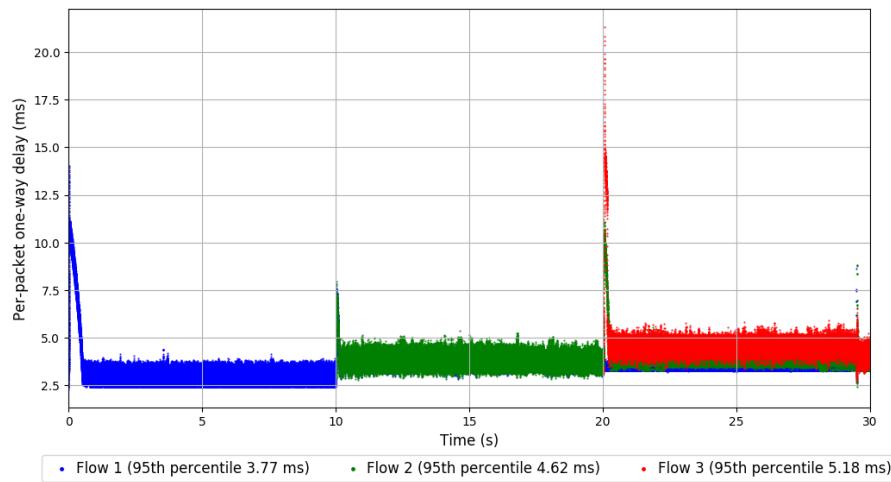
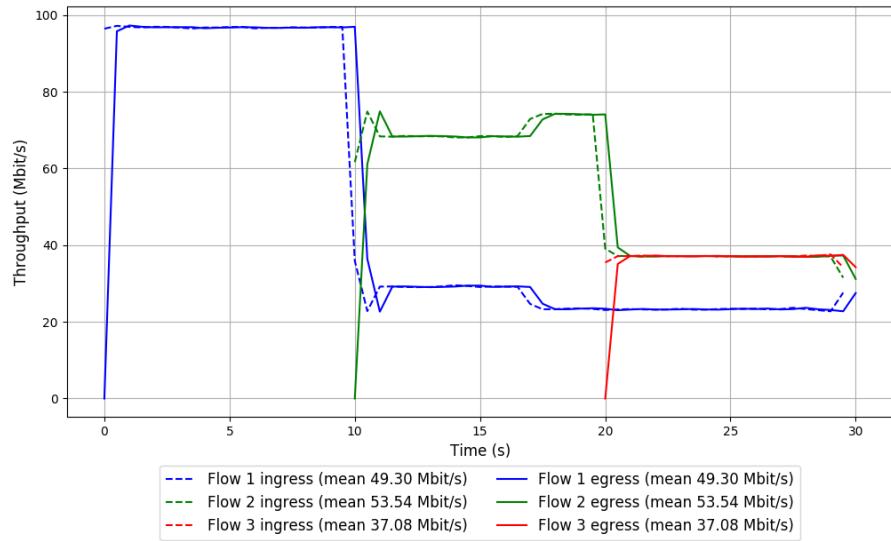


Run 8: Statistics of TCP Vegas

```
Start at: 2018-05-22 17:40:56
End at: 2018-05-22 17:41:26
Local clock offset: -5.992 ms
Remote clock offset: -1.874 ms

# Below is generated by plot.py at 2018-05-22 18:46:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 4.851 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 49.30 Mbit/s
95th percentile per-packet one-way delay: 3.767 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 53.54 Mbit/s
95th percentile per-packet one-way delay: 4.617 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 37.08 Mbit/s
95th percentile per-packet one-way delay: 5.178 ms
Loss rate: 0.06%
```

Run 8: Report of TCP Vegas — Data Link

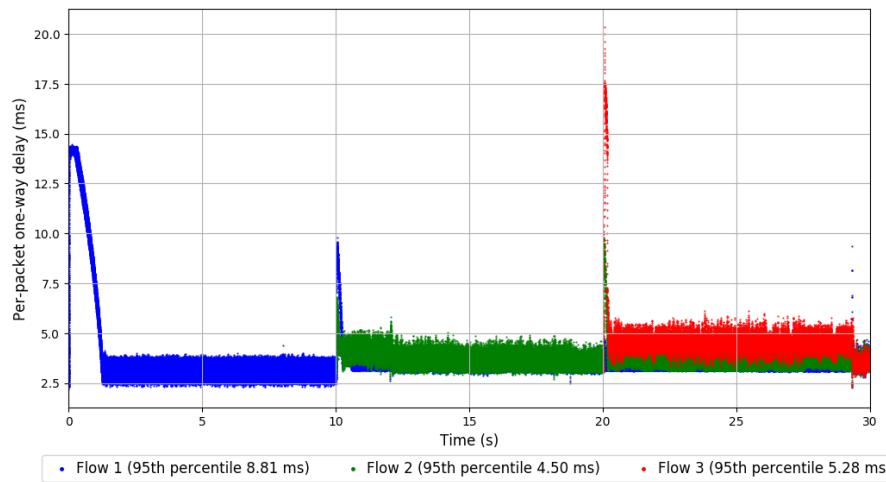
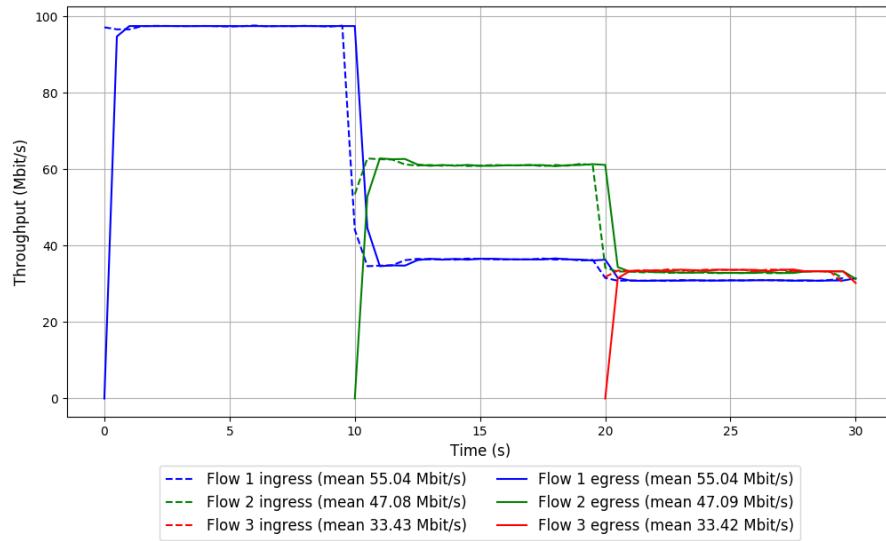


Run 9: Statistics of TCP Vegas

```
Start at: 2018-05-22 17:58:48
End at: 2018-05-22 17:59:18
Local clock offset: -5.923 ms
Remote clock offset: -2.057 ms

# Below is generated by plot.py at 2018-05-22 18:46:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 5.242 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 8.810 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.09 Mbit/s
95th percentile per-packet one-way delay: 4.497 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 33.42 Mbit/s
95th percentile per-packet one-way delay: 5.281 ms
Loss rate: 0.05%
```

Run 9: Report of TCP Vegas — Data Link

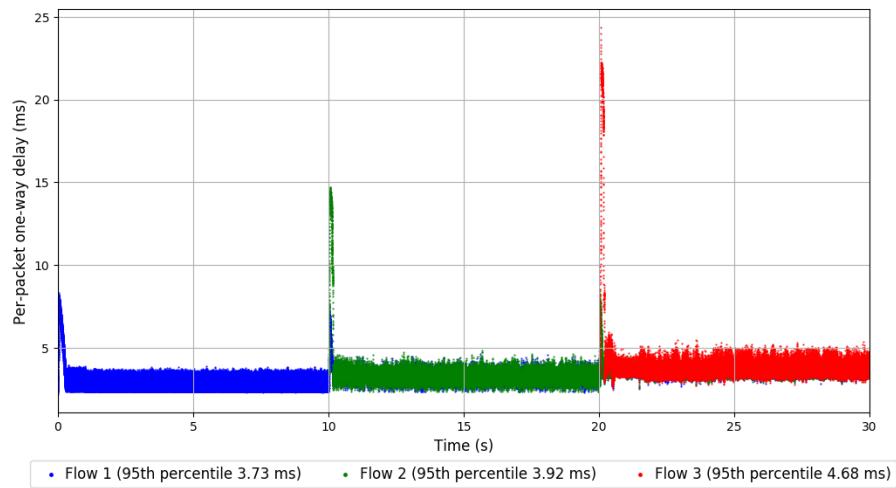
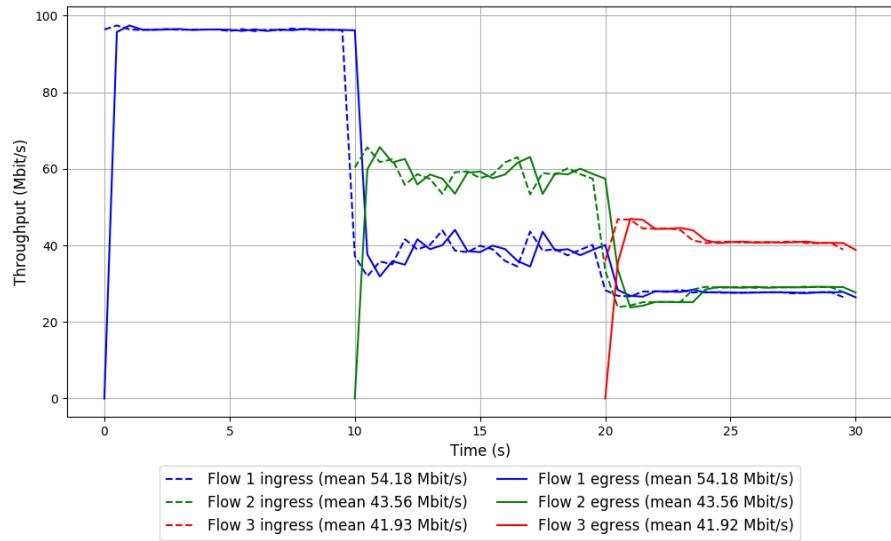


Run 10: Statistics of TCP Vegas

```
Start at: 2018-05-22 18:16:39
End at: 2018-05-22 18:17:09
Local clock offset: -5.778 ms
Remote clock offset: -3.252 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 4.163 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 54.18 Mbit/s
95th percentile per-packet one-way delay: 3.731 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 43.56 Mbit/s
95th percentile per-packet one-way delay: 3.923 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 41.92 Mbit/s
95th percentile per-packet one-way delay: 4.680 ms
Loss rate: 0.07%
```

Run 10: Report of TCP Vegas — Data Link

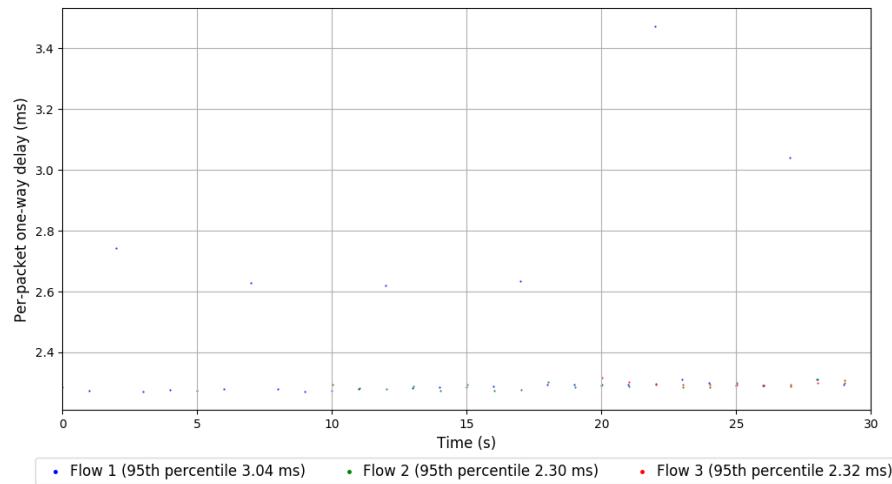
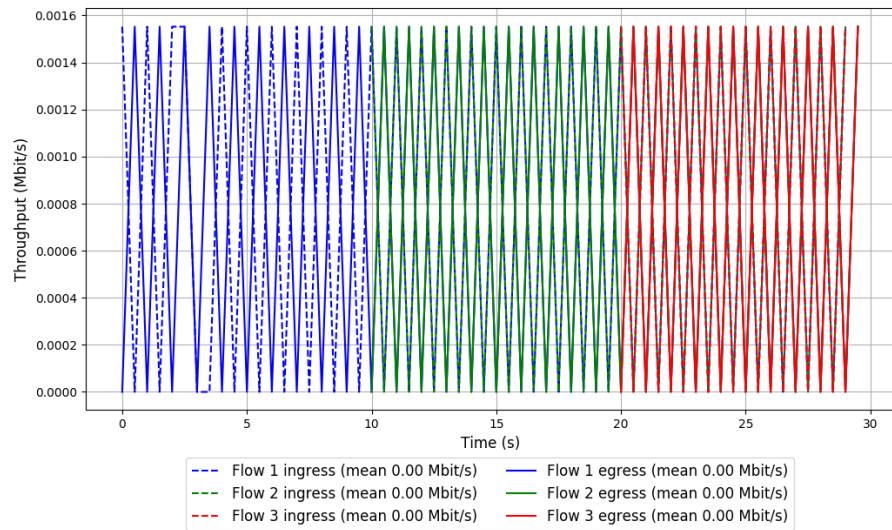


Run 1: Statistics of Verus

```
Start at: 2018-05-22 15:32:59
End at: 2018-05-22 15:33:29
Local clock offset: -6.046 ms
Remote clock offset: -2.212 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.040 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.300 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.316 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

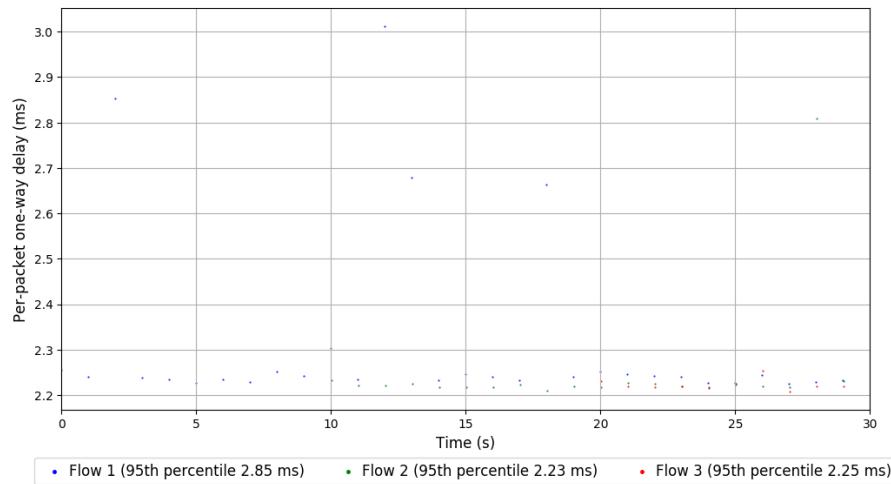
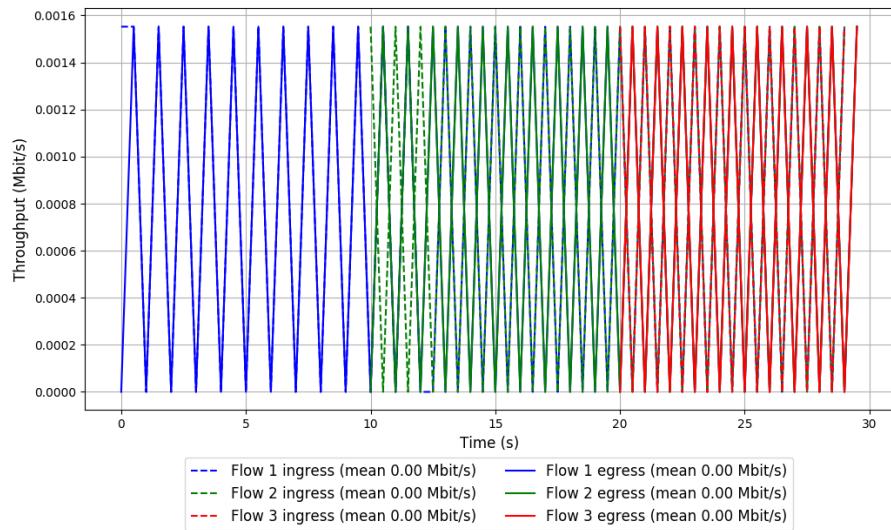


Run 2: Statistics of Verus

```
Start at: 2018-05-22 15:50:46
End at: 2018-05-22 15:51:16
Local clock offset: -6.17 ms
Remote clock offset: -2.717 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.853 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.232 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.253 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link

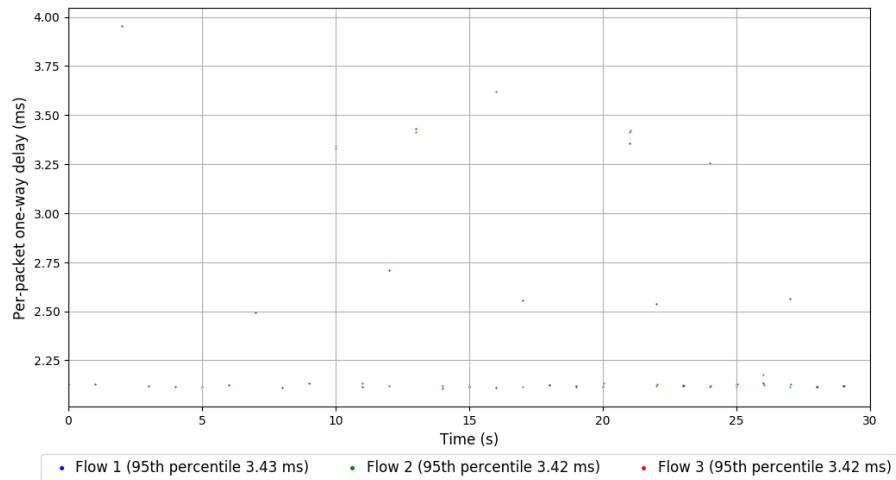
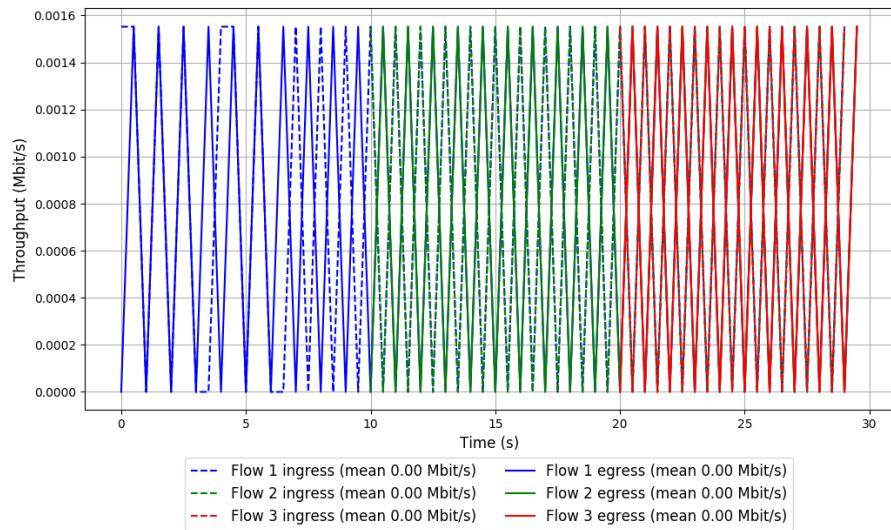


Run 3: Statistics of Verus

```
Start at: 2018-05-22 16:08:31
End at: 2018-05-22 16:09:01
Local clock offset: -6.12 ms
Remote clock offset: -2.712 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.432 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.415 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.421 ms
Loss rate: 0.00%
```

Run 3: Report of Verus — Data Link

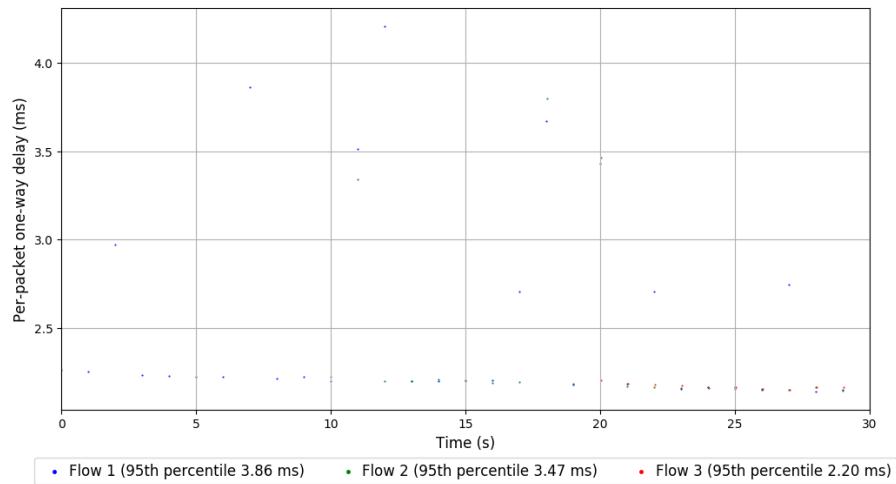
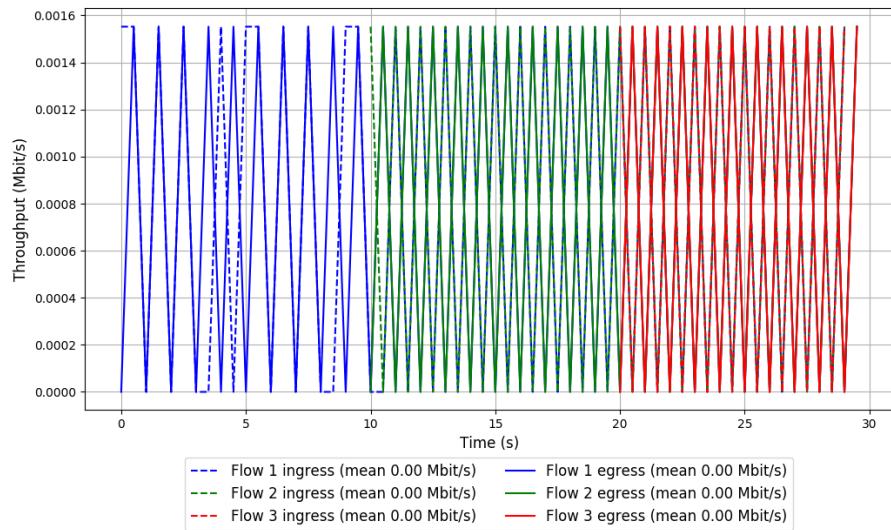


Run 4: Statistics of Verus

```
Start at: 2018-05-22 16:26:14
End at: 2018-05-22 16:26:44
Local clock offset: -6.022 ms
Remote clock offset: -7.308 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.672 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.862 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.201 ms
Loss rate: 0.00%
```

Run 4: Report of Verus — Data Link

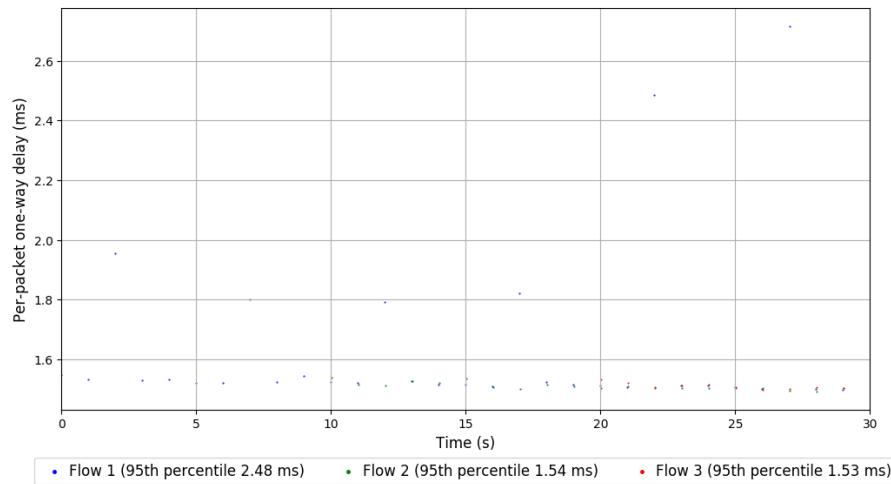
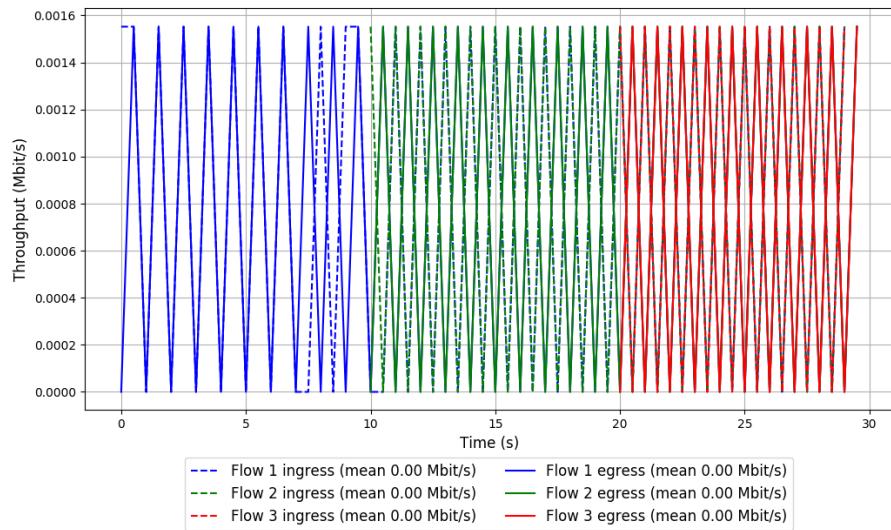


Run 5: Statistics of Verus

```
Start at: 2018-05-22 16:44:01
End at: 2018-05-22 16:44:31
Local clock offset: -6.425 ms
Remote clock offset: -8.947 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.821 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.485 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.537 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.534 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link

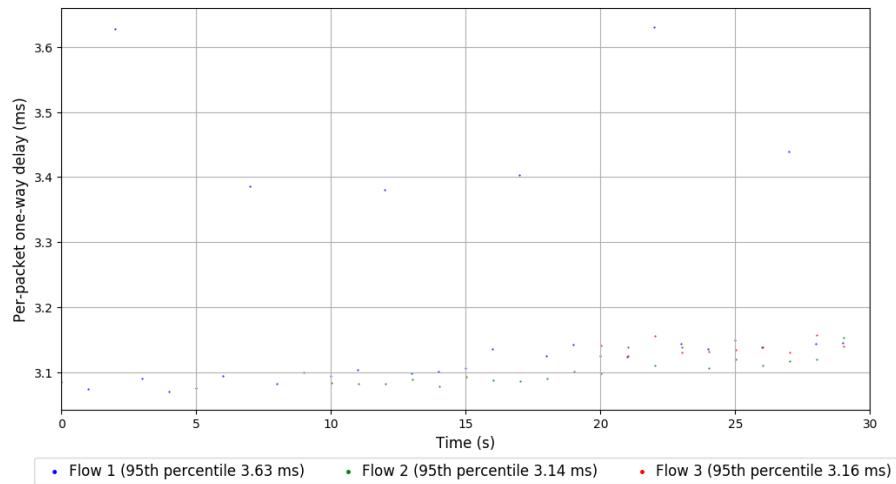
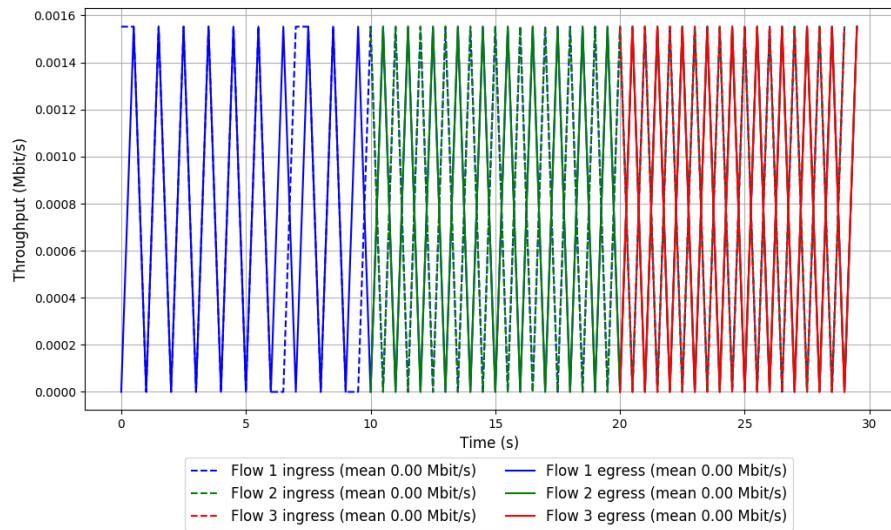


Run 6: Statistics of Verus

```
Start at: 2018-05-22 17:01:53
End at: 2018-05-22 17:02:23
Local clock offset: -5.034 ms
Remote clock offset: -3.638 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.628 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.139 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.158 ms
Loss rate: 0.00%
```

Run 6: Report of Verus — Data Link

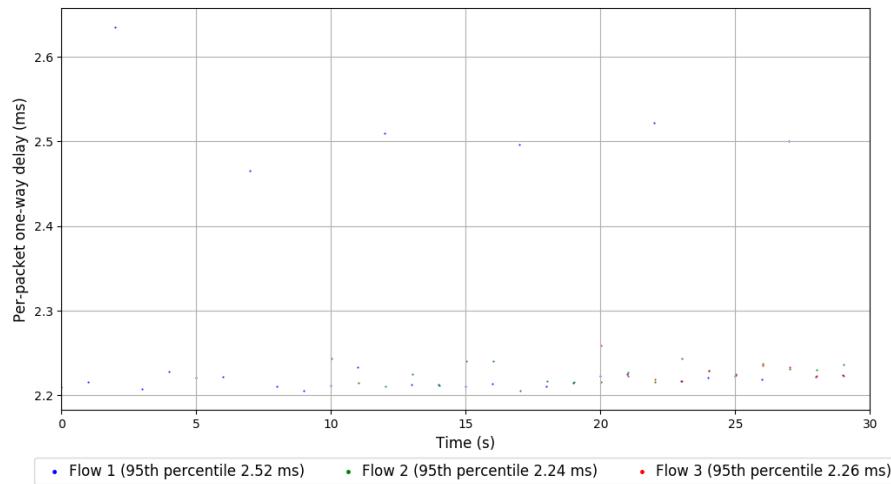
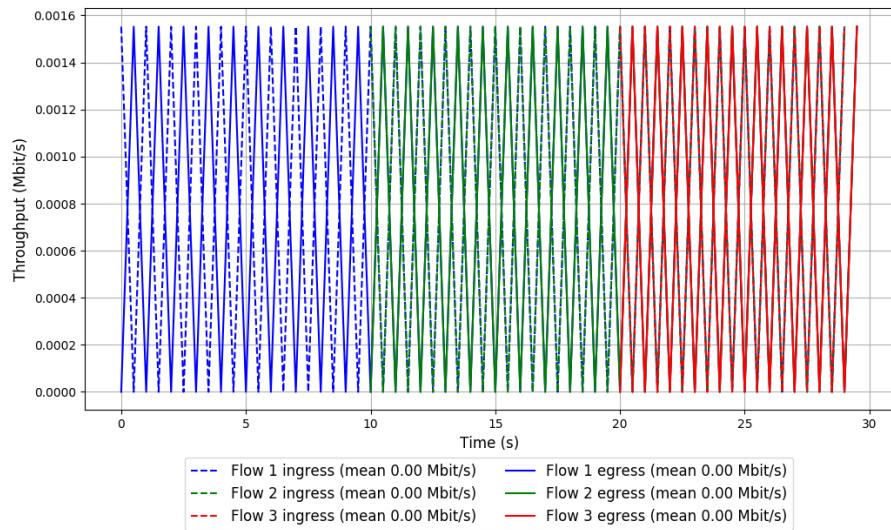


Run 7: Statistics of Verus

```
Start at: 2018-05-22 17:19:44
End at: 2018-05-22 17:20:14
Local clock offset: -6.086 ms
Remote clock offset: -2.105 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.500 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.522 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.243 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.259 ms
Loss rate: 0.00%
```

Run 7: Report of Verus — Data Link

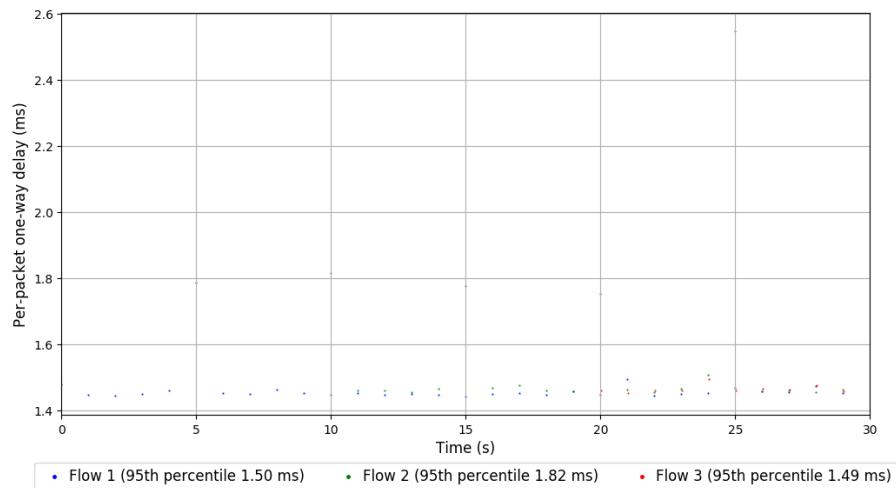
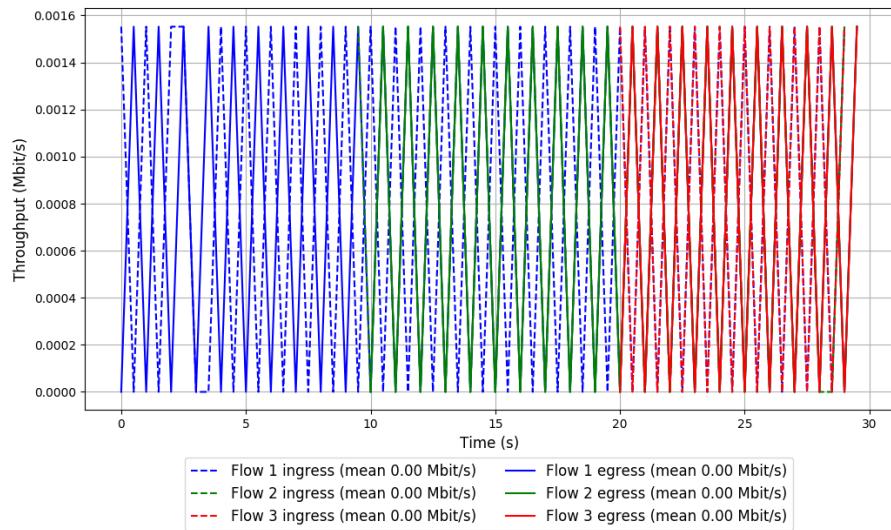


Run 8: Statistics of Verus

```
Start at: 2018-05-22 17:37:35
End at: 2018-05-22 17:38:05
Local clock offset: -6.755 ms
Remote clock offset: -1.916 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.495 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.493 ms
Loss rate: 0.00%
```

Run 8: Report of Verus — Data Link

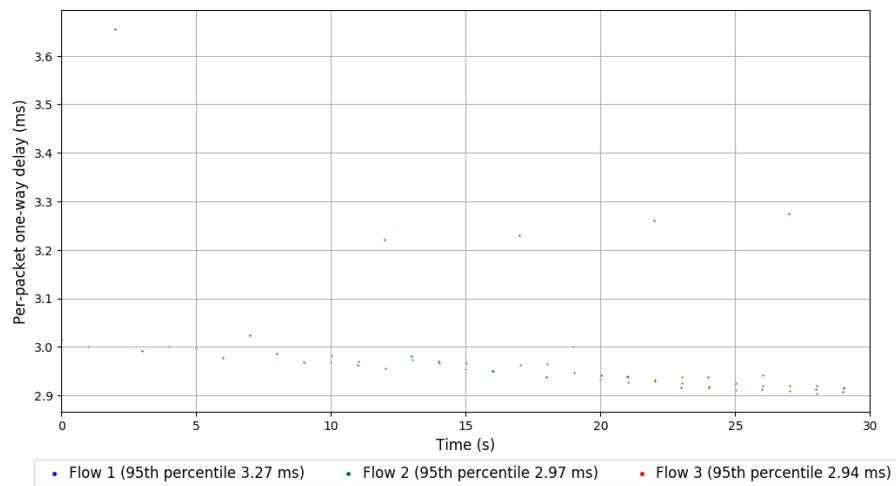
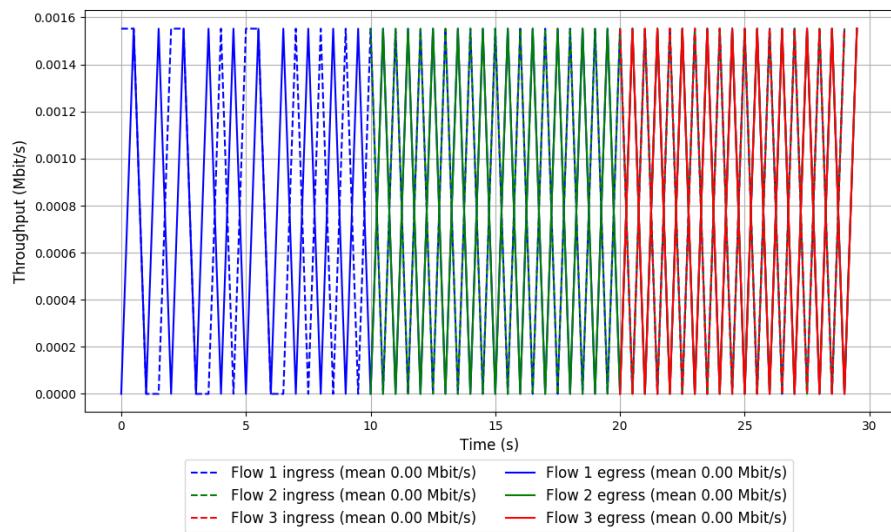


Run 9: Statistics of Verus

```
Start at: 2018-05-22 17:55:26
End at: 2018-05-22 17:55:56
Local clock offset: -5.211 ms
Remote clock offset: -1.548 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.230 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.275 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.974 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.942 ms
Loss rate: 0.00%
```

Run 9: Report of Verus — Data Link

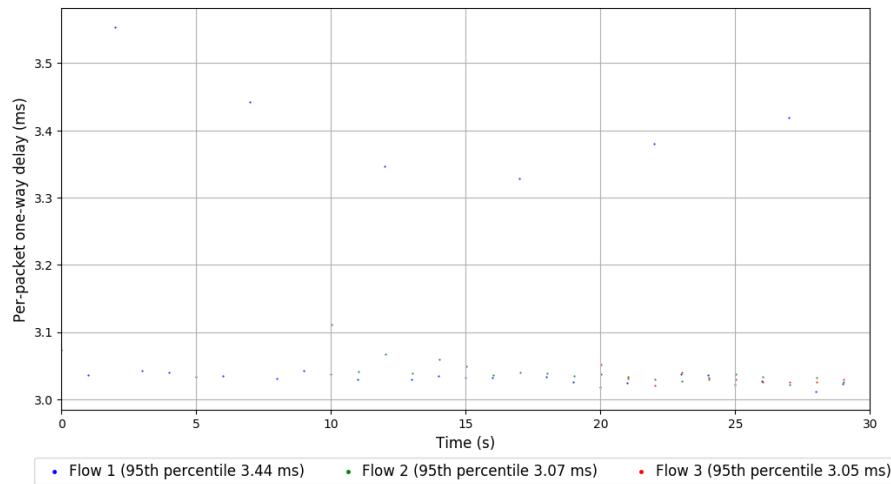
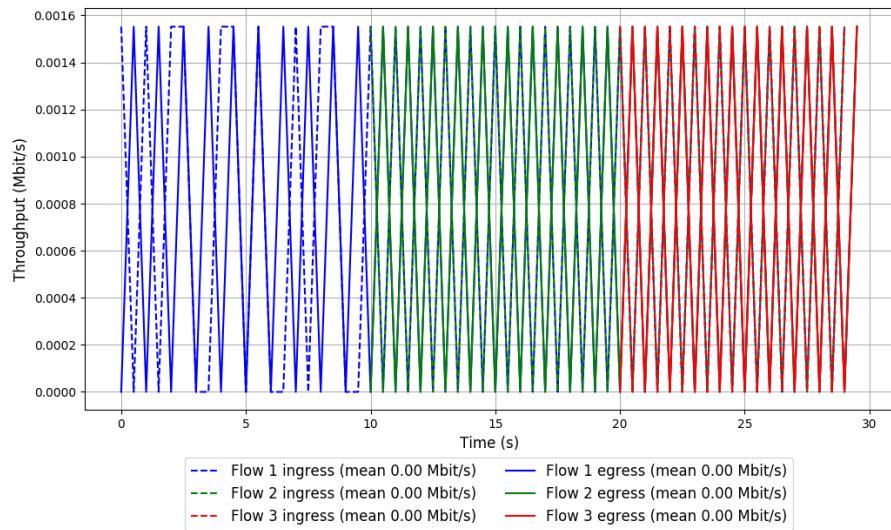


Run 10: Statistics of Verus

```
Start at: 2018-05-22 18:13:17
End at: 2018-05-22 18:13:47
Local clock offset: -5.025 ms
Remote clock offset: -3.168 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.442 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.067 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.051 ms
Loss rate: 0.00%
```

Run 10: Report of Verus — Data Link

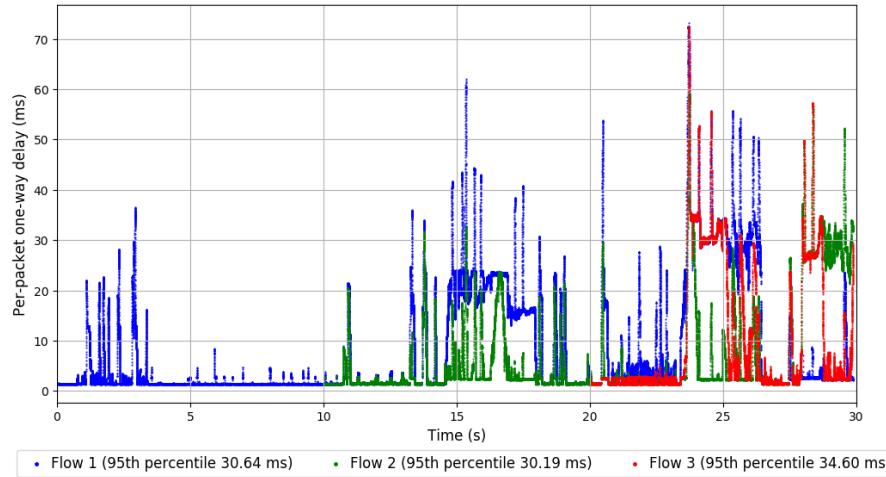
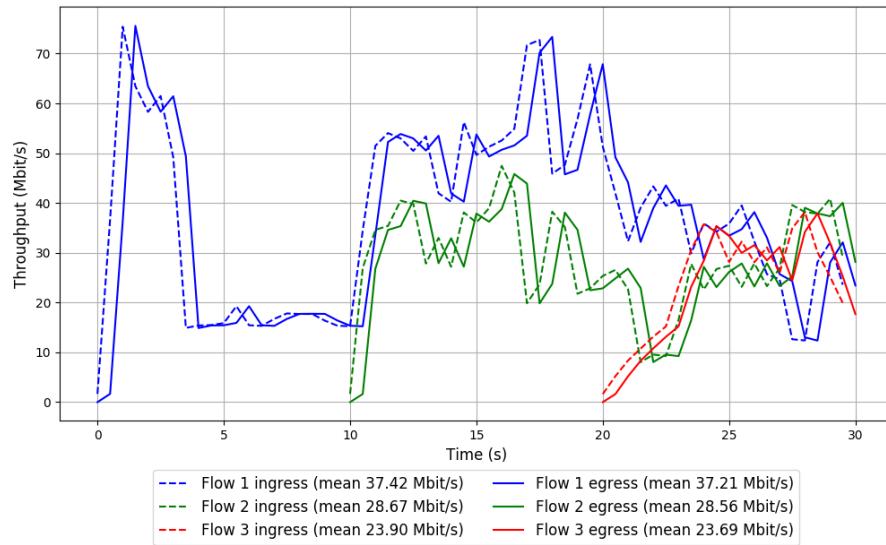


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-05-22 15:46:17
End at: 2018-05-22 15:46:47
Local clock offset: -6.968 ms
Remote clock offset: -2.533 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.03 Mbit/s
95th percentile per-packet one-way delay: 32.257 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 30.643 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 28.56 Mbit/s
95th percentile per-packet one-way delay: 30.186 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 23.69 Mbit/s
95th percentile per-packet one-way delay: 34.602 ms
Loss rate: 1.00%
```

Run 1: Report of PCC-Vivace — Data Link

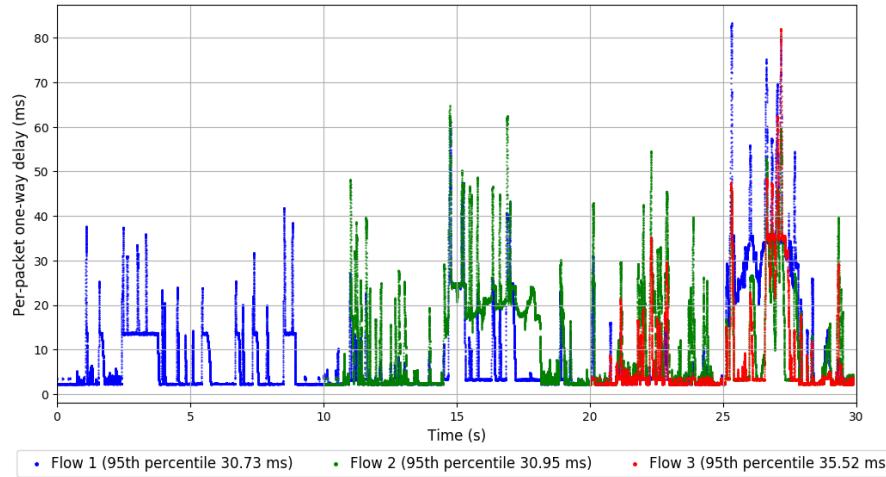
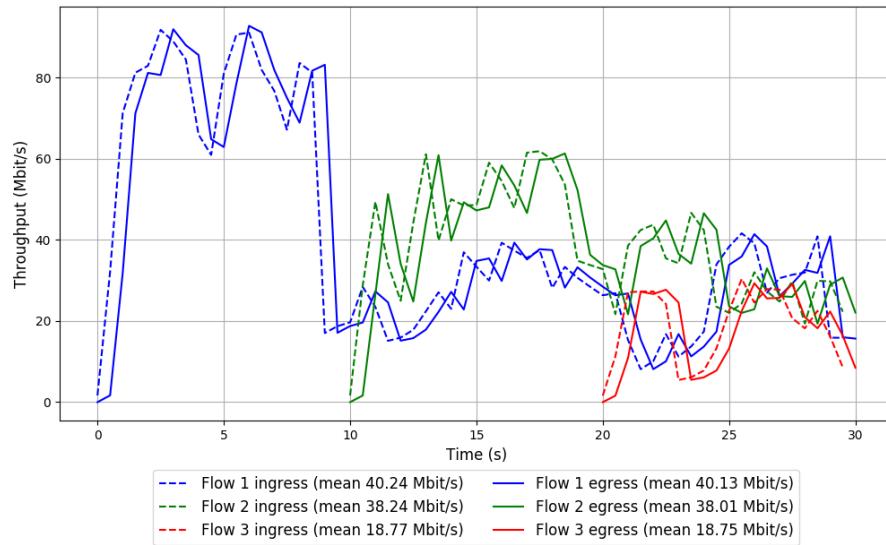


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-05-22 16:04:00
End at: 2018-05-22 16:04:30
Local clock offset: -6.073 ms
Remote clock offset: -2.737 ms

# Below is generated by plot.py at 2018-05-22 18:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.60 Mbit/s
95th percentile per-packet one-way delay: 31.704 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 30.728 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 38.01 Mbit/s
95th percentile per-packet one-way delay: 30.954 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 18.75 Mbit/s
95th percentile per-packet one-way delay: 35.516 ms
Loss rate: 0.21%
```

Run 2: Report of PCC-Vivace — Data Link

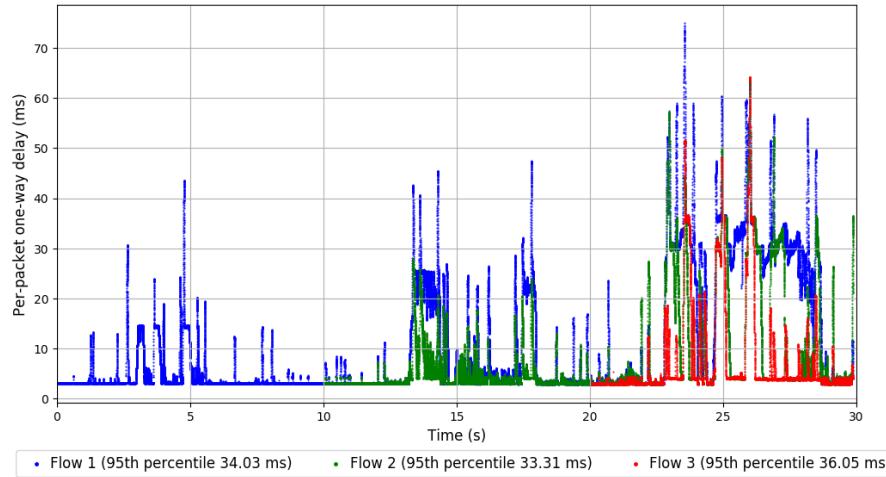
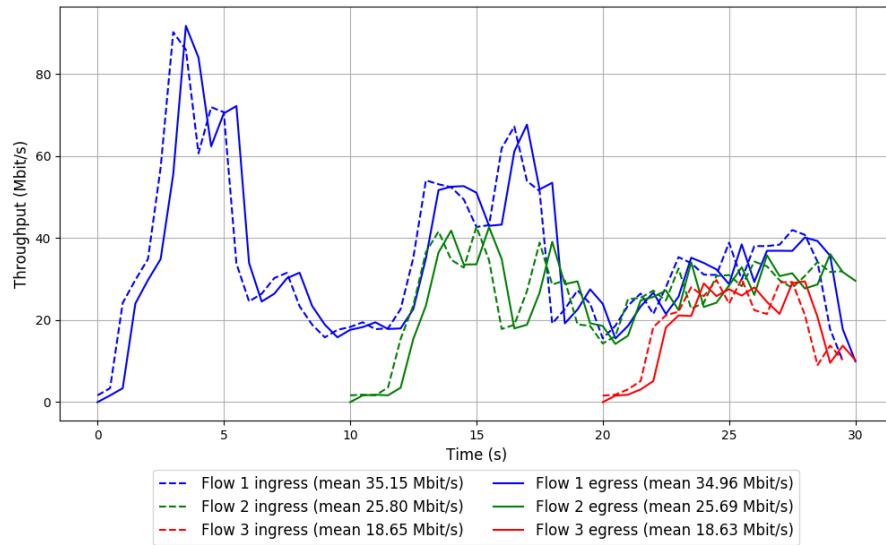


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-05-22 16:21:44
End at: 2018-05-22 16:22:14
Local clock offset: -5.258 ms
Remote clock offset: -6.373 ms

# Below is generated by plot.py at 2018-05-22 18:46:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 34.412 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 34.96 Mbit/s
95th percentile per-packet one-way delay: 34.029 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 33.314 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 18.63 Mbit/s
95th percentile per-packet one-way delay: 36.048 ms
Loss rate: 0.16%
```

Run 3: Report of PCC-Vivace — Data Link

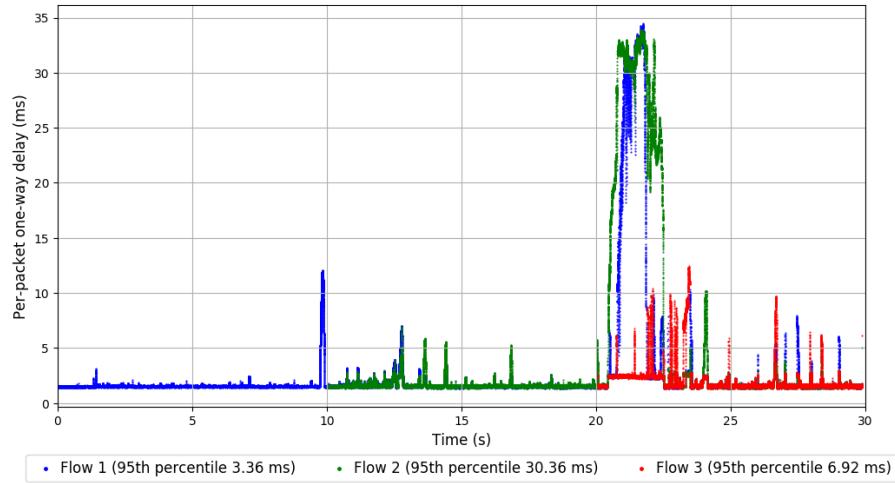
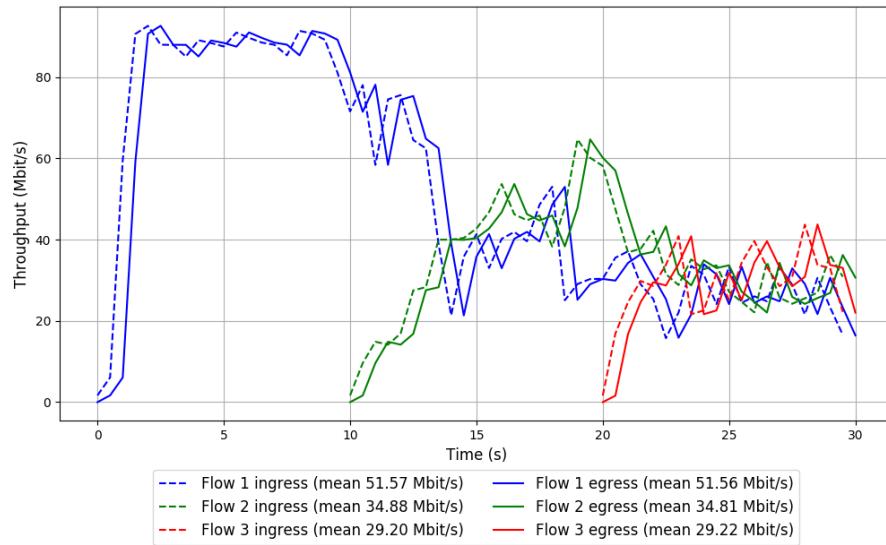


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-05-22 16:39:29
End at: 2018-05-22 16:39:59
Local clock offset: -6.49 ms
Remote clock offset: -8.582 ms

# Below is generated by plot.py at 2018-05-22 18:47:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 10.435 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 51.56 Mbit/s
95th percentile per-packet one-way delay: 3.357 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 30.360 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 6.918 ms
Loss rate: 0.05%
```

Run 4: Report of PCC-Vivace — Data Link

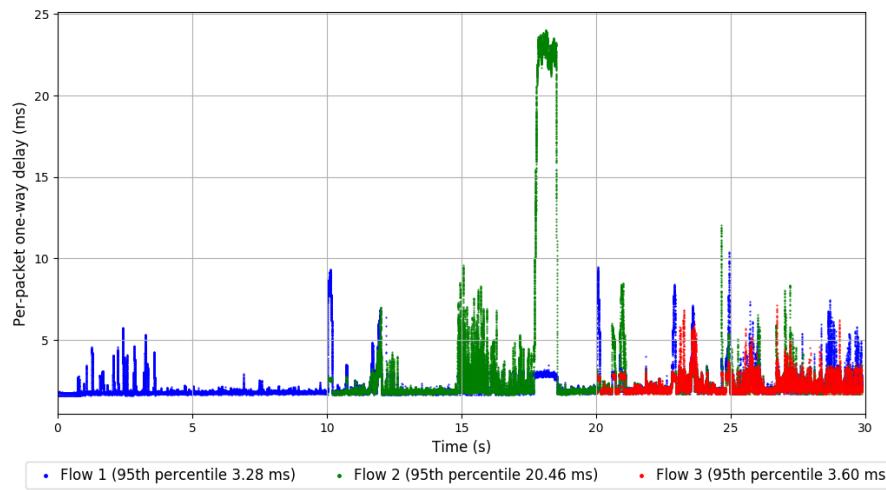
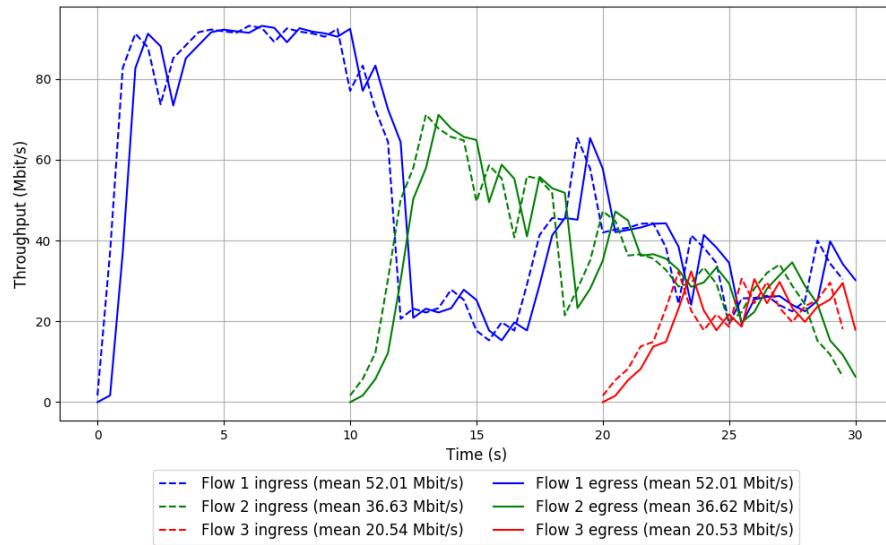


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-05-22 16:57:20
End at: 2018-05-22 16:57:50
Local clock offset: -6.452 ms
Remote clock offset: -4.567 ms

# Below is generated by plot.py at 2018-05-22 18:47:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.13 Mbit/s
95th percentile per-packet one-way delay: 4.515 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 52.01 Mbit/s
95th percentile per-packet one-way delay: 3.283 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 20.463 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 20.53 Mbit/s
95th percentile per-packet one-way delay: 3.605 ms
Loss rate: 0.06%
```

Run 5: Report of PCC-Vivace — Data Link

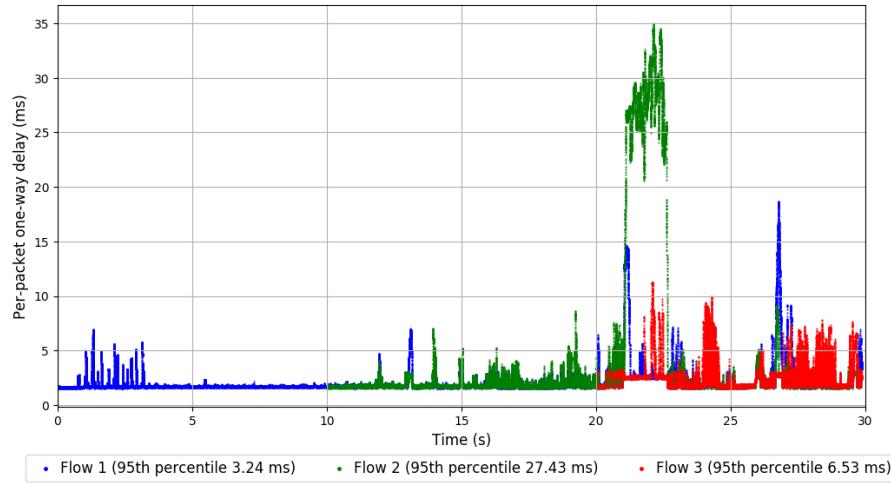
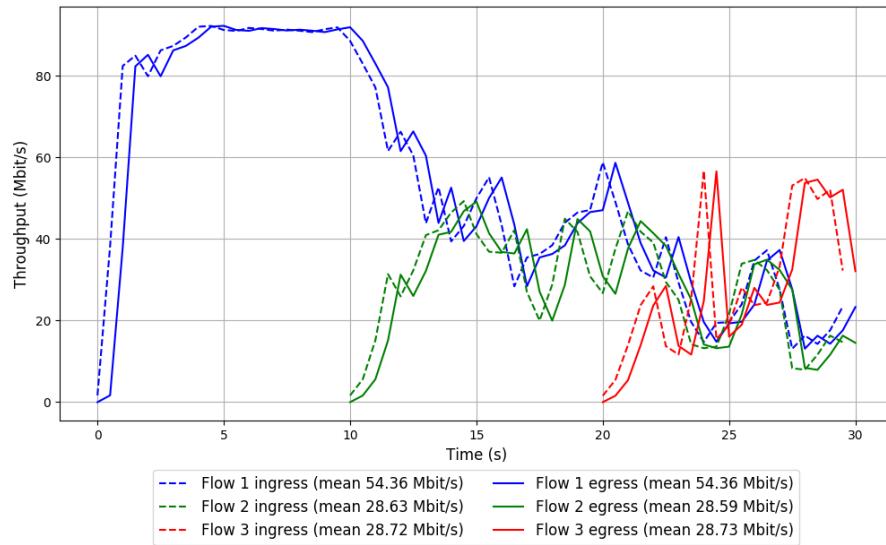


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-05-22 17:15:12
End at: 2018-05-22 17:15:42
Local clock offset: -6.758 ms
Remote clock offset: -2.39 ms

# Below is generated by plot.py at 2018-05-22 18:47:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.85 Mbit/s
95th percentile per-packet one-way delay: 5.718 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 54.36 Mbit/s
95th percentile per-packet one-way delay: 3.237 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 27.435 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 6.534 ms
Loss rate: 0.04%
```

Run 6: Report of PCC-Vivace — Data Link

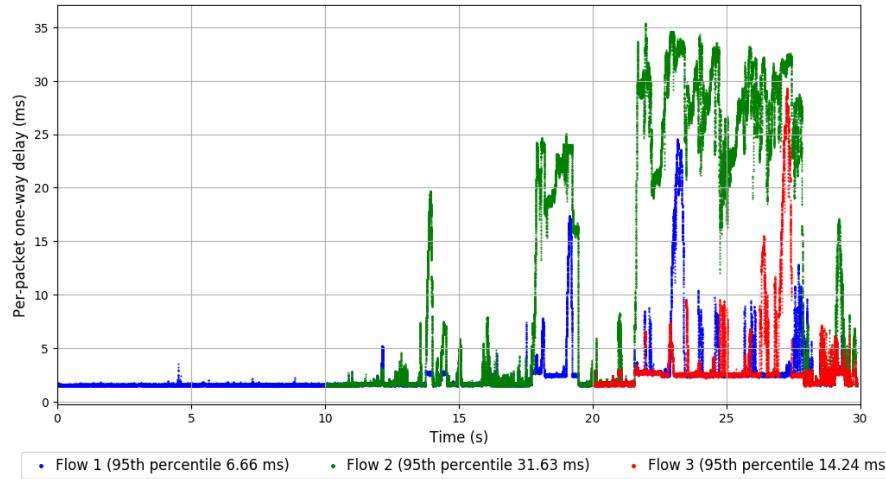
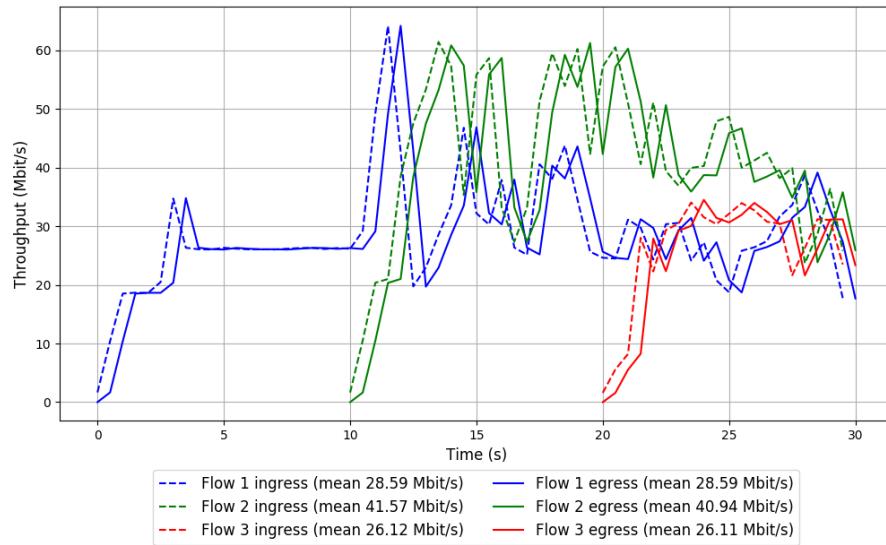


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-05-22 17:33:02
End at: 2018-05-22 17:33:32
Local clock offset: -6.775 ms
Remote clock offset: -2.101 ms

# Below is generated by plot.py at 2018-05-22 18:47:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.43 Mbit/s
95th percentile per-packet one-way delay: 28.845 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 6.662 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.94 Mbit/s
95th percentile per-packet one-way delay: 31.630 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 26.11 Mbit/s
95th percentile per-packet one-way delay: 14.237 ms
Loss rate: 0.08%
```

Run 7: Report of PCC-Vivace — Data Link

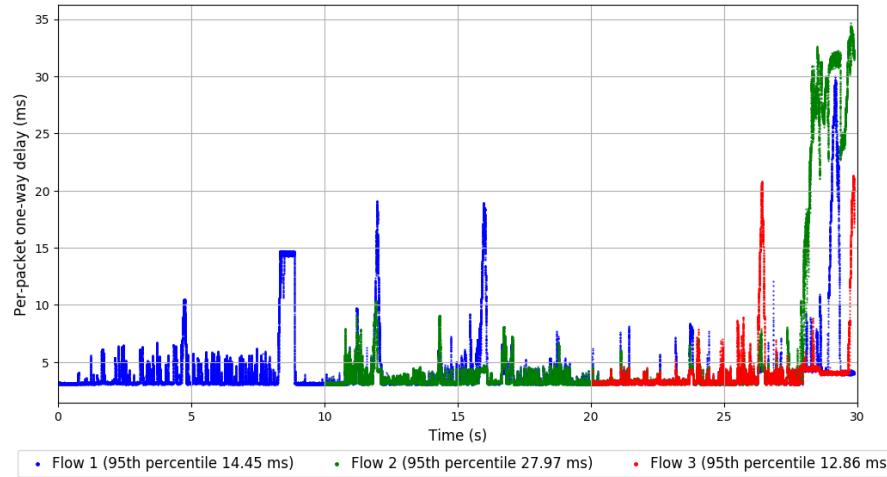
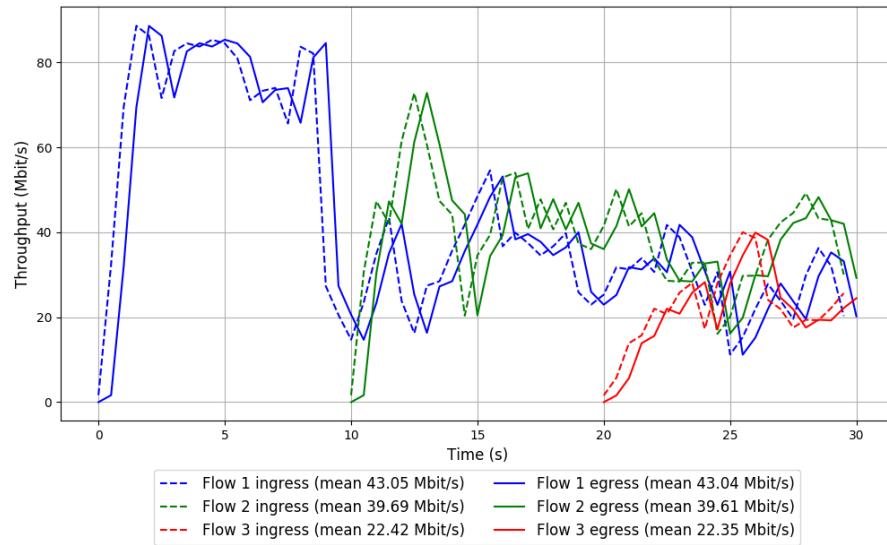


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-05-22 17:50:53
End at: 2018-05-22 17:51:23
Local clock offset: -5.206 ms
Remote clock offset: -1.59 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 14.637 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 43.04 Mbit/s
95th percentile per-packet one-way delay: 14.449 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 27.972 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 22.35 Mbit/s
95th percentile per-packet one-way delay: 12.862 ms
Loss rate: 0.32%
```

Run 8: Report of PCC-Vivace — Data Link

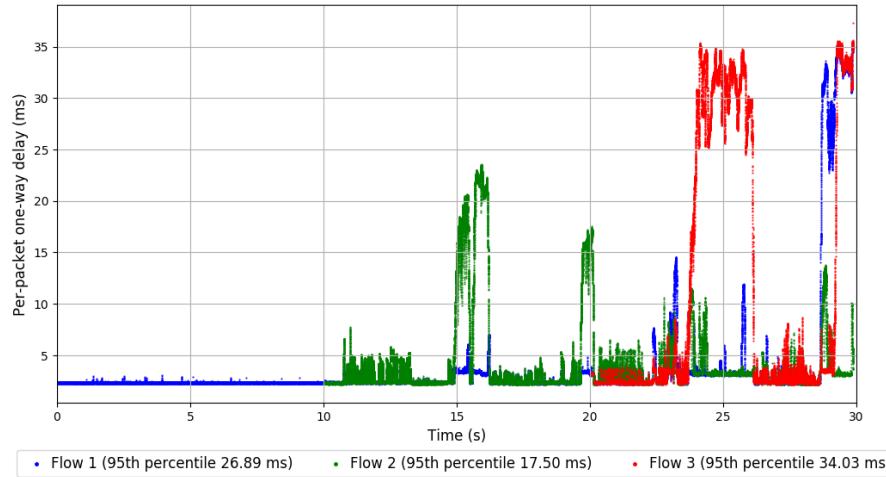
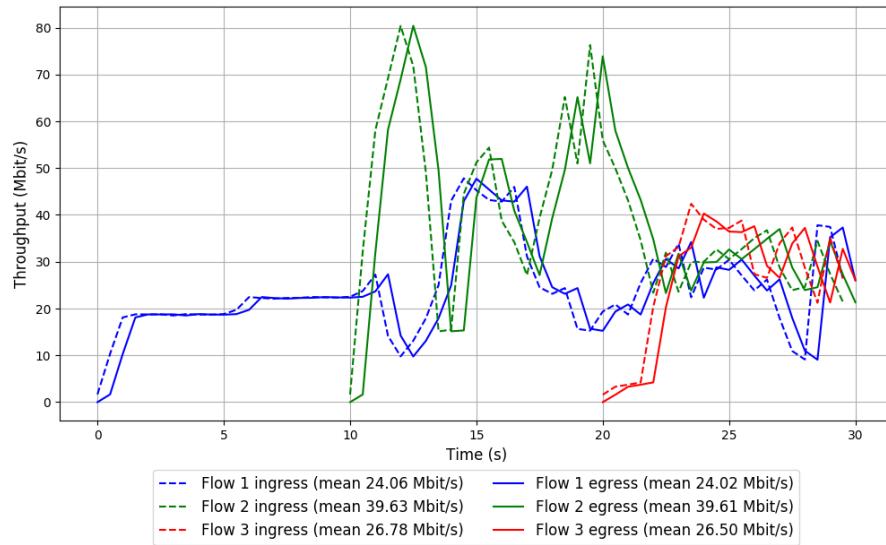


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-05-22 18:08:45
End at: 2018-05-22 18:09:15
Local clock offset: -5.816 ms
Remote clock offset: -2.905 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.10 Mbit/s
95th percentile per-packet one-way delay: 30.900 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 26.888 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 17.498 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 26.50 Mbit/s
95th percentile per-packet one-way delay: 34.035 ms
Loss rate: 1.18%
```

Run 9: Report of PCC-Vivace — Data Link

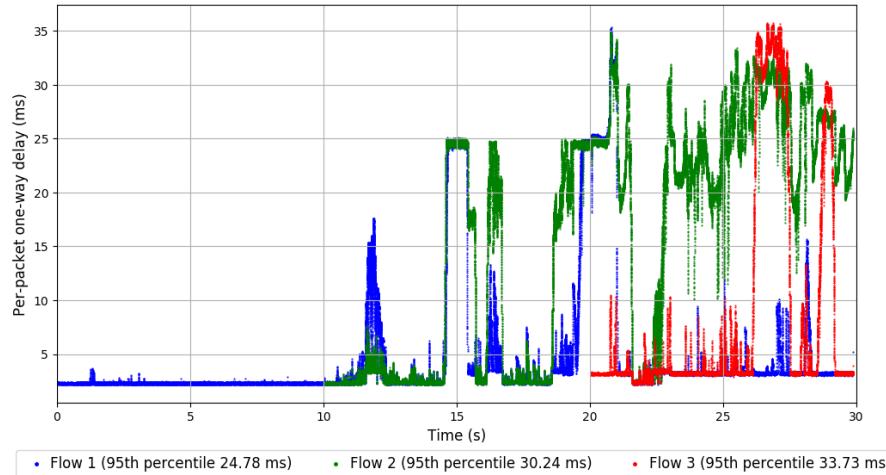
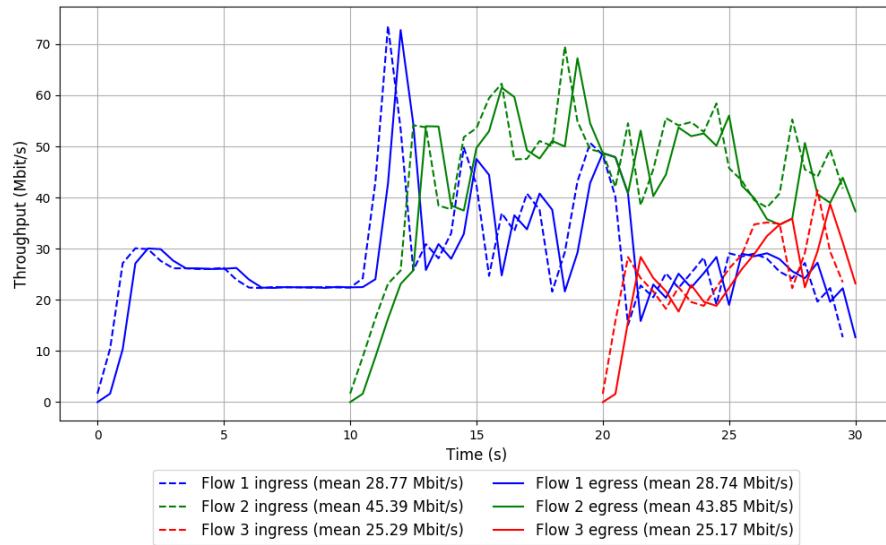


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-05-22 18:26:35
End at: 2018-05-22 18:27:05
Local clock offset: -5.793 ms
Remote clock offset: -3.564 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.21 Mbit/s
95th percentile per-packet one-way delay: 29.765 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 28.74 Mbit/s
95th percentile per-packet one-way delay: 24.778 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 43.85 Mbit/s
95th percentile per-packet one-way delay: 30.240 ms
Loss rate: 3.47%
-- Flow 3:
Average throughput: 25.17 Mbit/s
95th percentile per-packet one-way delay: 33.734 ms
Loss rate: 0.50%
```

Run 10: Report of PCC-Vivace — Data Link

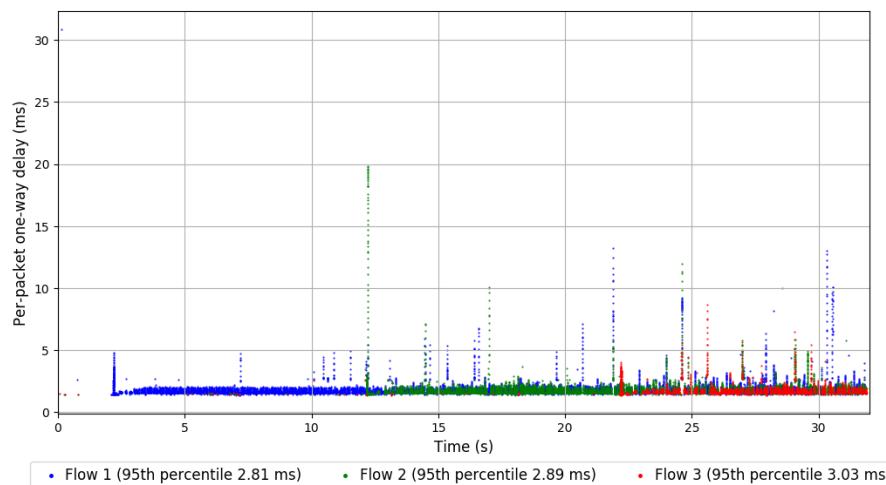
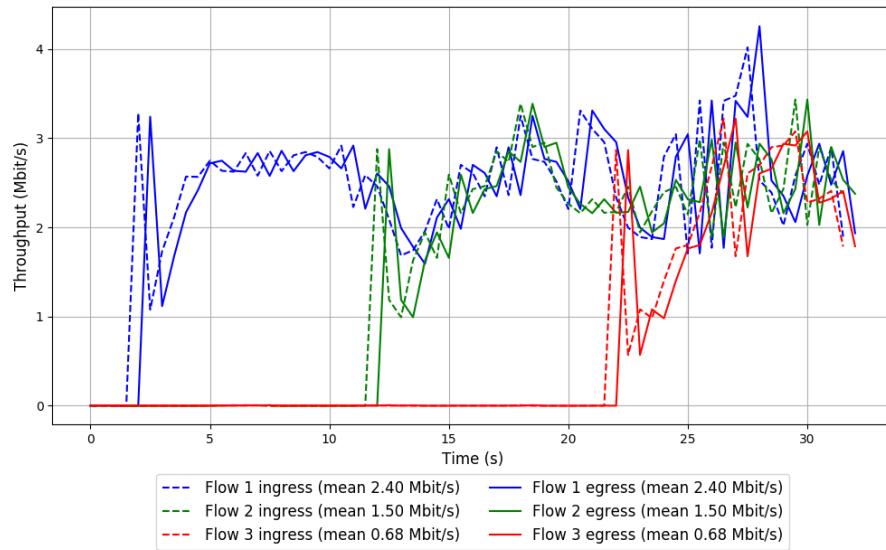


Run 1: Statistics of WebRTC media

```
Start at: 2018-05-22 15:43:01
End at: 2018-05-22 15:43:31
Local clock offset: -6.908 ms
Remote clock offset: -2.36 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.57 Mbit/s
95th percentile per-packet one-way delay: 2.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 2.815 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 2.890 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 3.030 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

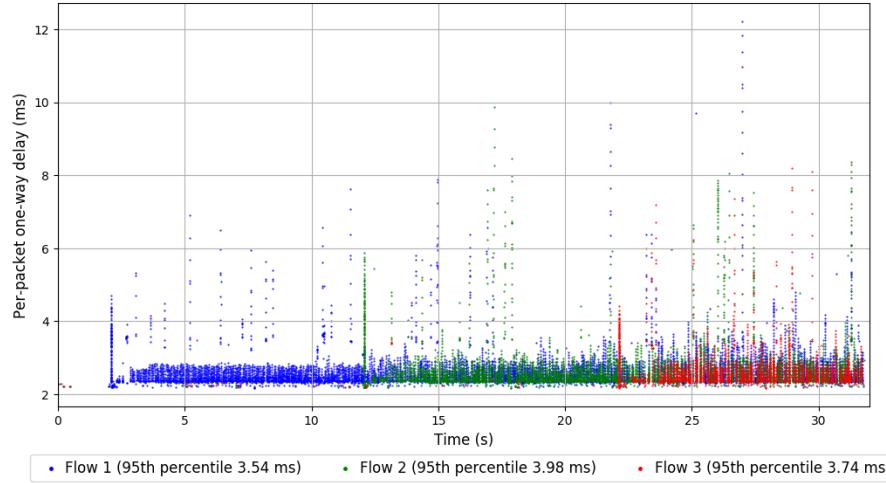
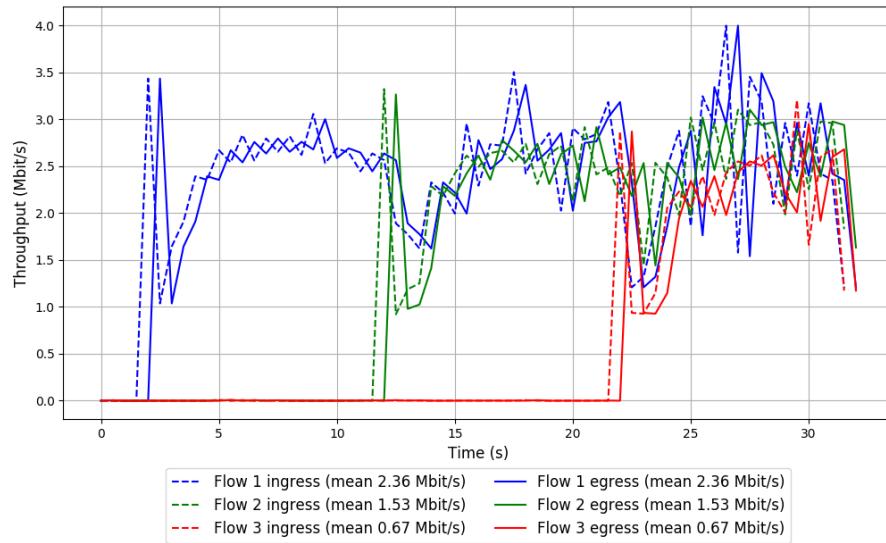


Run 2: Statistics of WebRTC media

```
Start at: 2018-05-22 16:00:45
End at: 2018-05-22 16:01:15
Local clock offset: -6.127 ms
Remote clock offset: -2.776 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 3.646 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 3.543 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 3.975 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 3.737 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

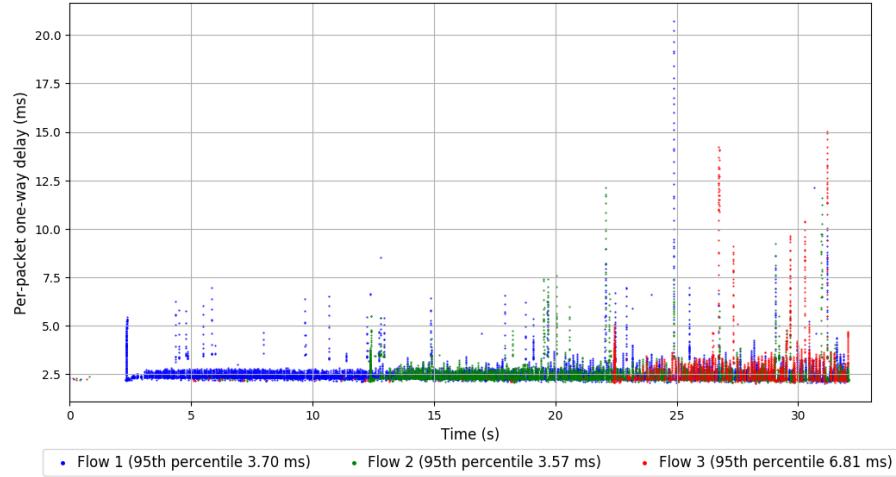
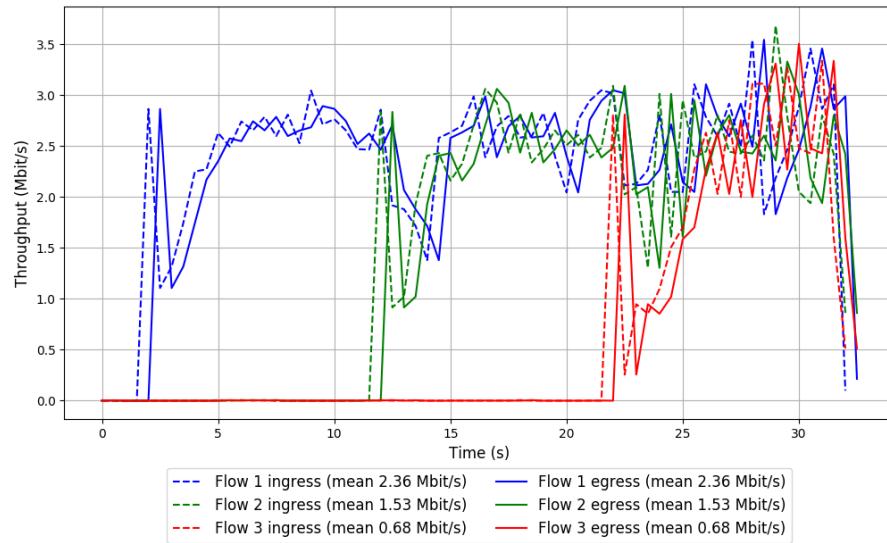


Run 3: Statistics of WebRTC media

```
Start at: 2018-05-22 16:18:27
End at: 2018-05-22 16:18:57
Local clock offset: -6.032 ms
Remote clock offset: -5.44 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 3.933 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 3.699 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 3.567 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 6.811 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

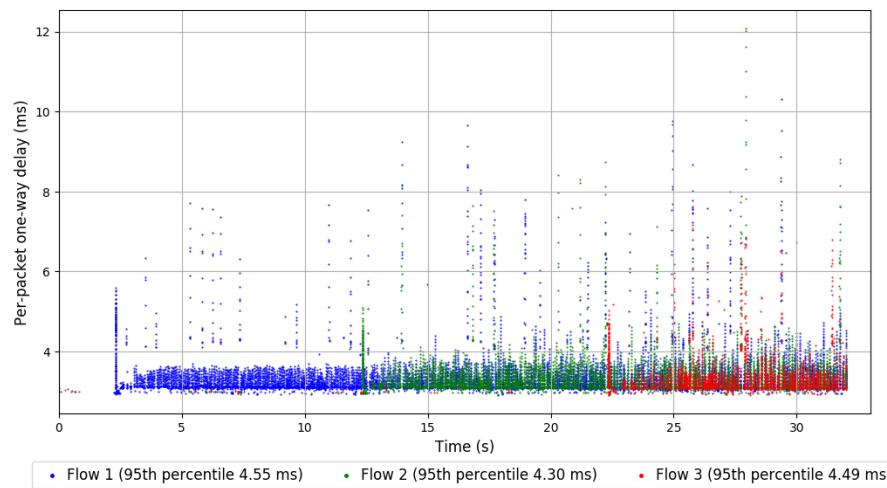
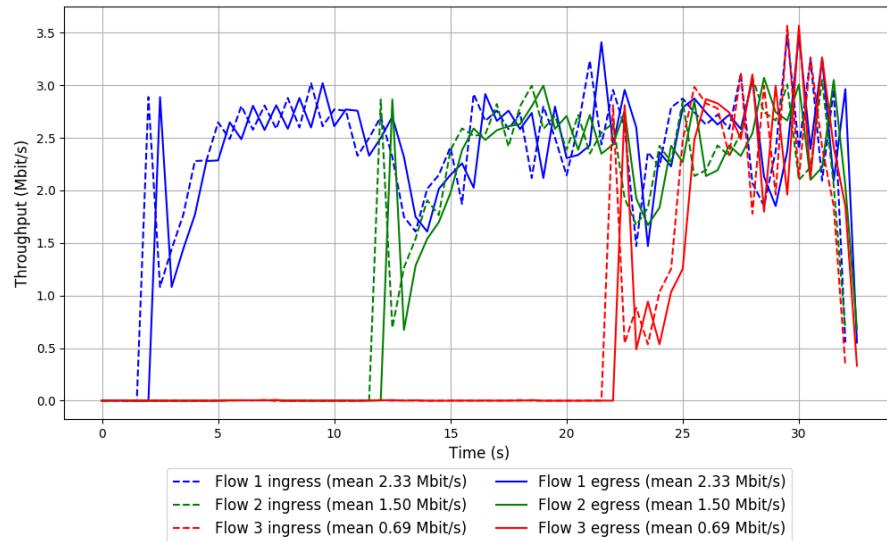


Run 4: Statistics of WebRTC media

```
Start at: 2018-05-22 16:36:13
End at: 2018-05-22 16:36:43
Local clock offset: -5.001 ms
Remote clock offset: -8.372 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 4.456 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 4.548 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 4.298 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 4.486 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

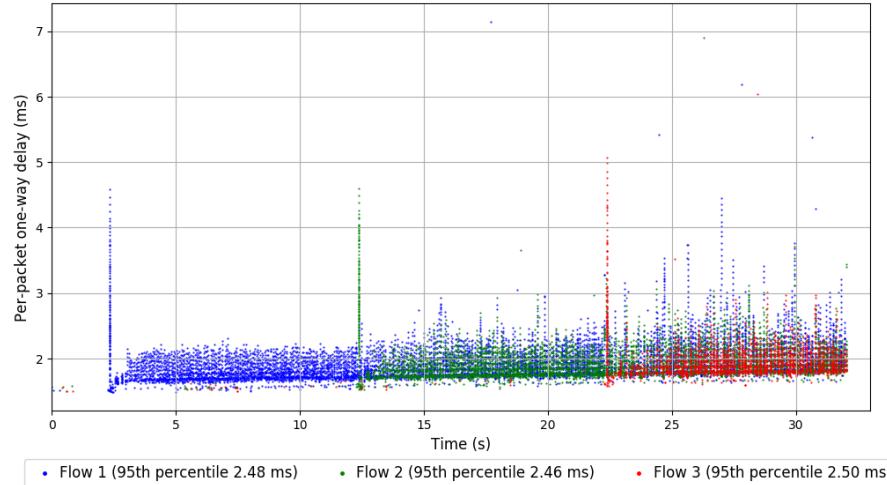
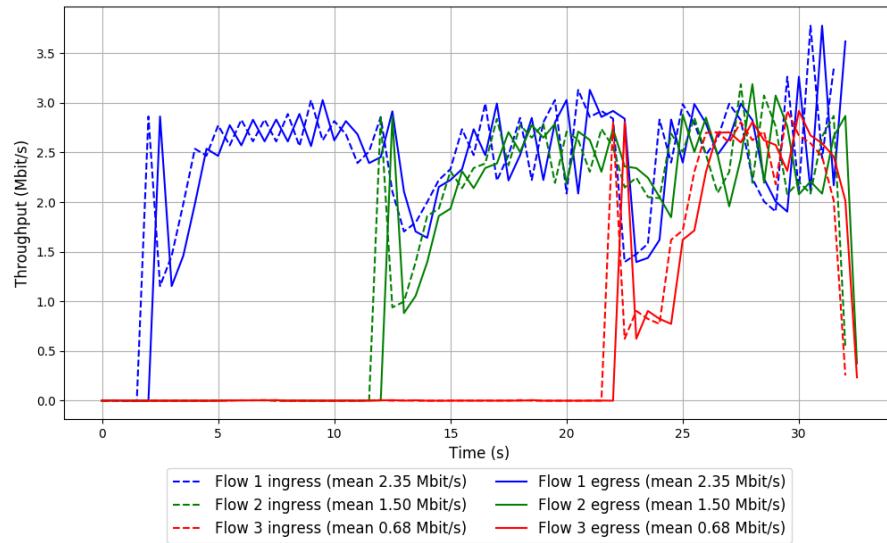


Run 5: Statistics of WebRTC media

```
Start at: 2018-05-22 16:54:03
End at: 2018-05-22 16:54:33
Local clock offset: -6.354 ms
Remote clock offset: -5.315 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 2.479 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.481 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 2.464 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 2.499 ms
Loss rate: 0.05%
```

Run 5: Report of WebRTC media — Data Link

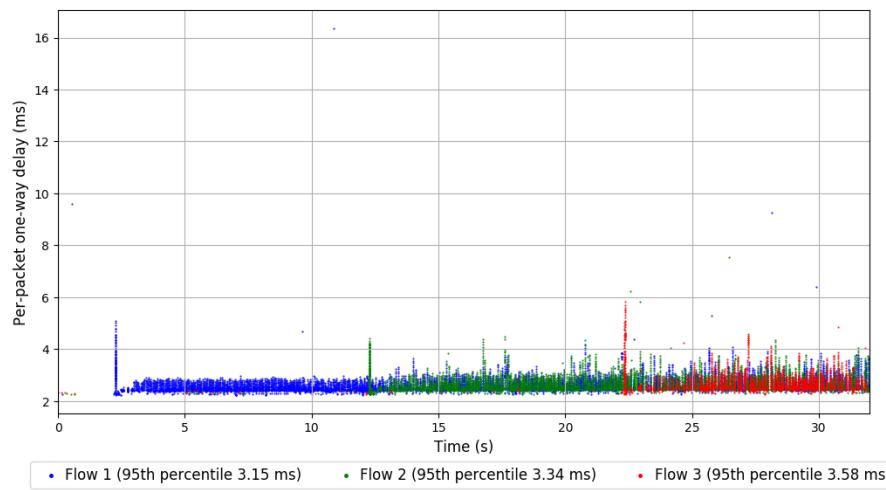
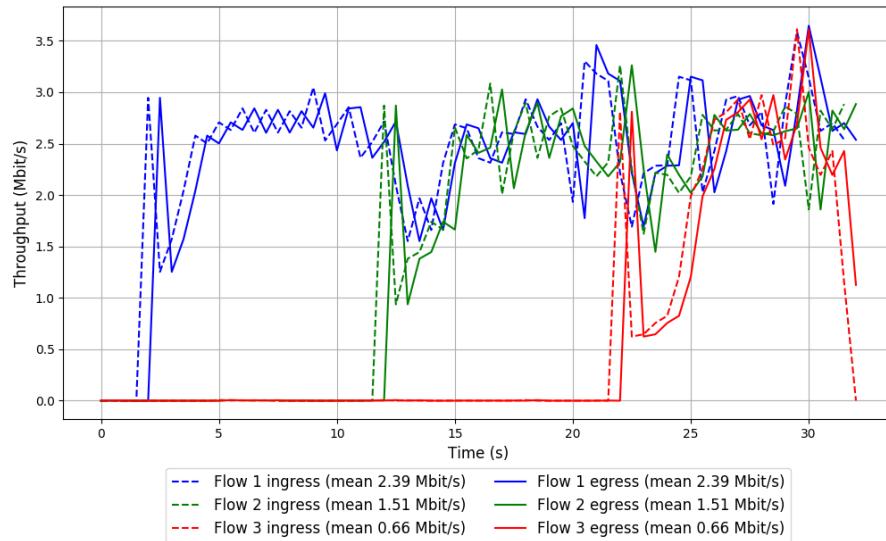


Run 6: Statistics of WebRTC media

```
Start at: 2018-05-22 17:11:55
End at: 2018-05-22 17:12:25
Local clock offset: -5.972 ms
Remote clock offset: -2.572 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 3.268 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 3.149 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 3.339 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 3.578 ms
Loss rate: 0.05%
```

Run 6: Report of WebRTC media — Data Link

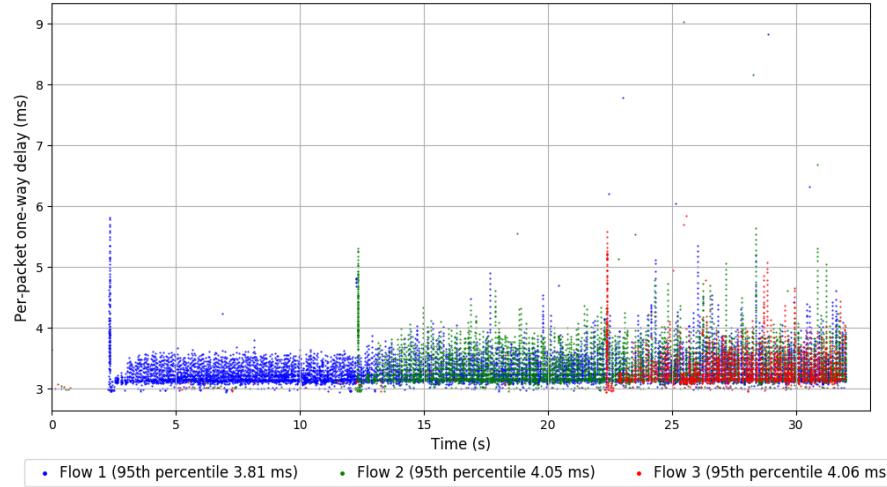
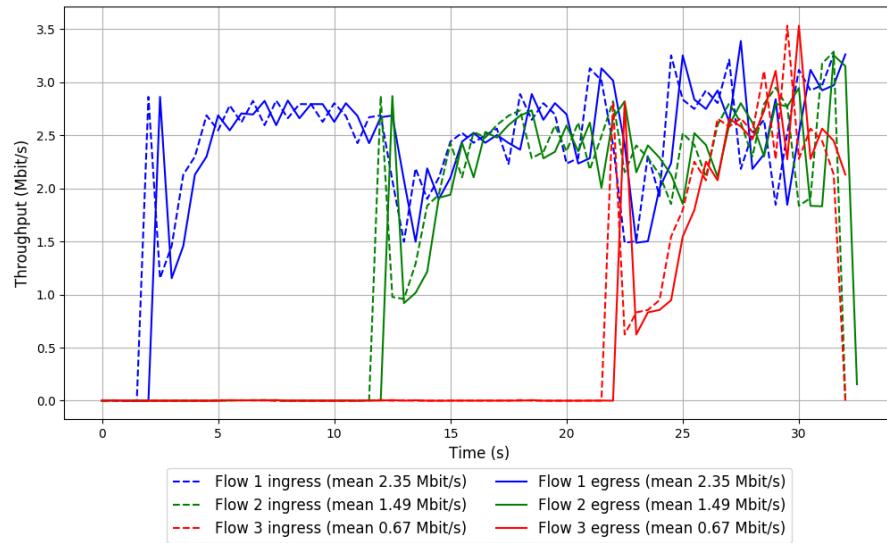


Run 7: Statistics of WebRTC media

```
Start at: 2018-05-22 17:29:46
End at: 2018-05-22 17:30:16
Local clock offset: -5.251 ms
Remote clock offset: -2.07 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 3.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 3.814 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 4.053 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 4.064 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

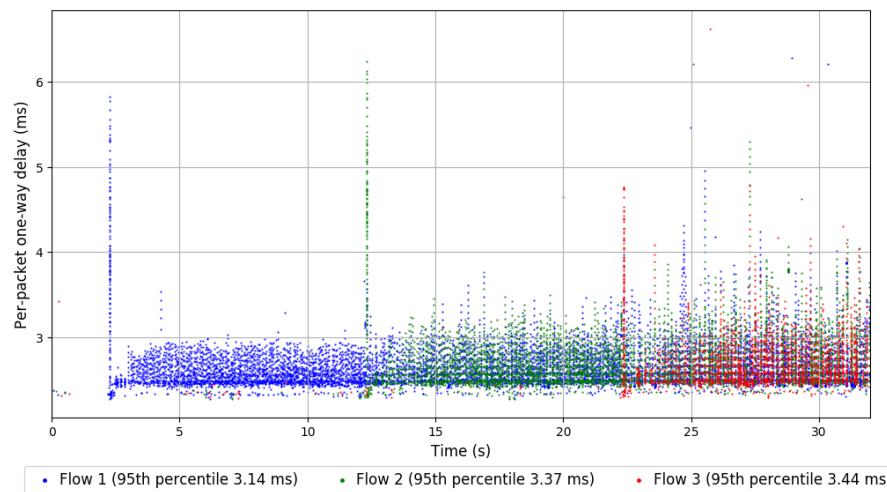
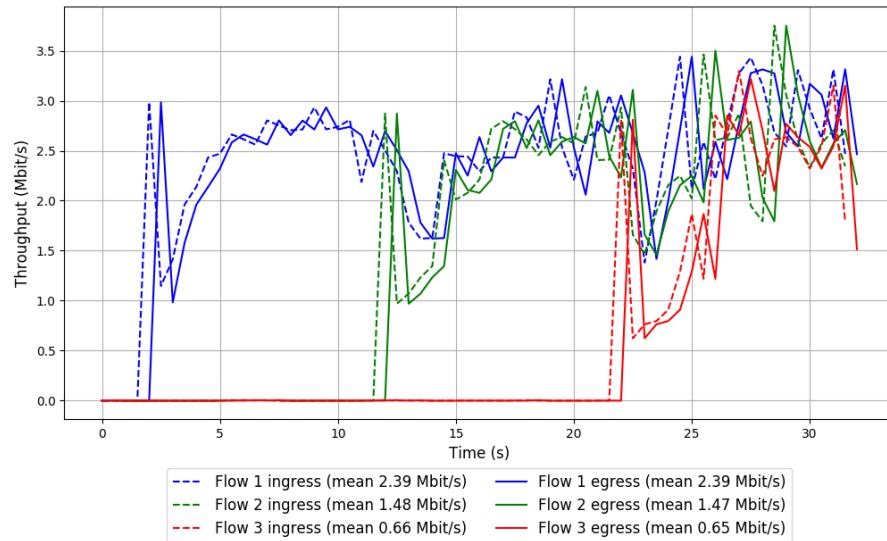


Run 8: Statistics of WebRTC media

```
Start at: 2018-05-22 17:47:37
End at: 2018-05-22 17:48:07
Local clock offset: -5.981 ms
Remote clock offset: -1.701 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 3.271 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 3.142 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 3.368 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 3.440 ms
Loss rate: 0.65%
```

Run 8: Report of WebRTC media — Data Link

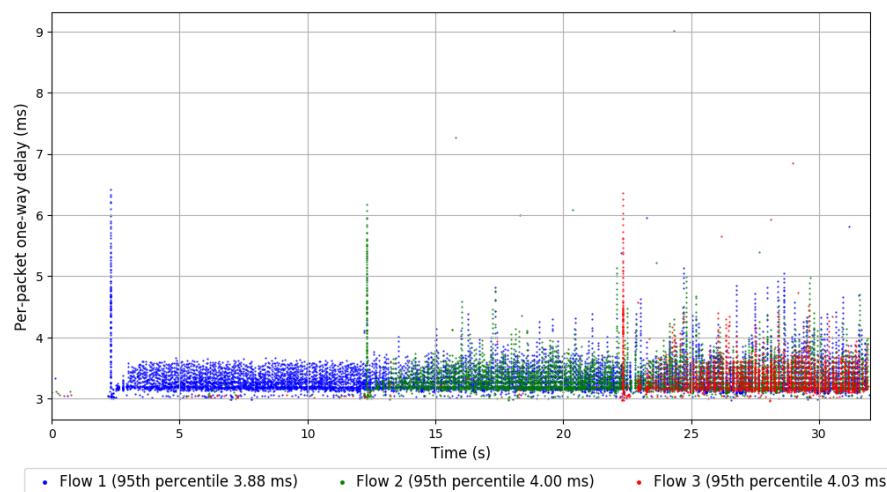
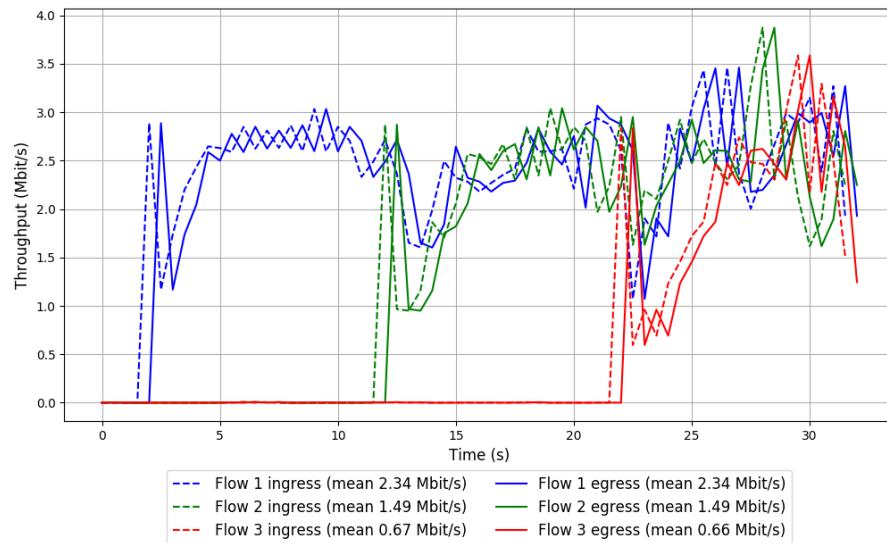


Run 9: Statistics of WebRTC media

```
Start at: 2018-05-22 18:05:28
End at: 2018-05-22 18:05:58
Local clock offset: -5.078 ms
Remote clock offset: -2.767 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 3.939 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 3.884 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 3.997 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 4.025 ms
Loss rate: 0.64%
```

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

```
Start at: 2018-05-22 18:23:19
End at: 2018-05-22 18:23:49
Local clock offset: -5.8 ms
Remote clock offset: -3.396 ms

# Below is generated by plot.py at 2018-05-22 18:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 3.012 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 2.975 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 3.031 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 3.147 ms
Loss rate: 0.41%
```

Run 10: Report of WebRTC media — Data Link

