

Pantheon Report

Generated at 2018-06-19 12:41:21 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 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.

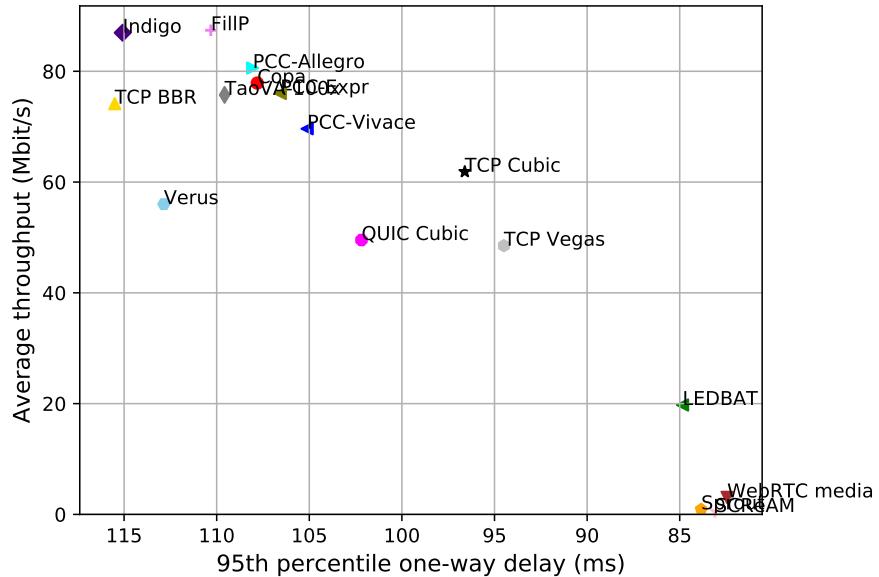
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

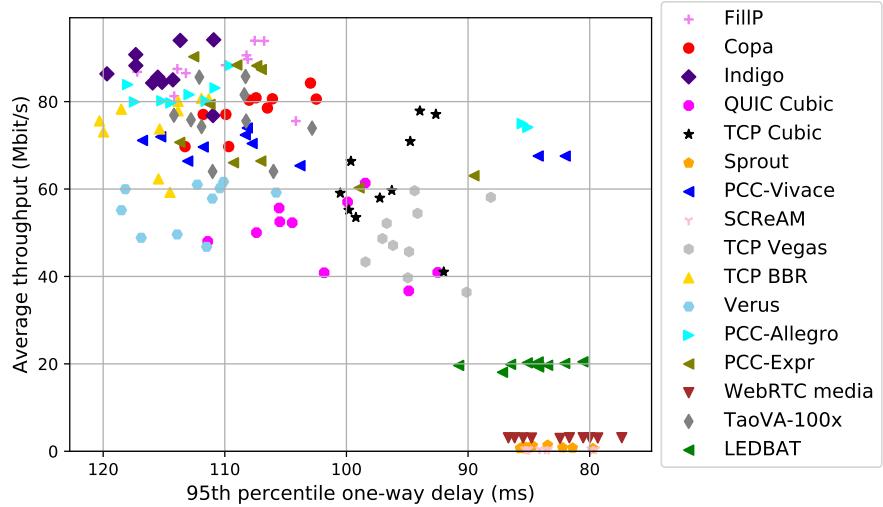
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
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
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



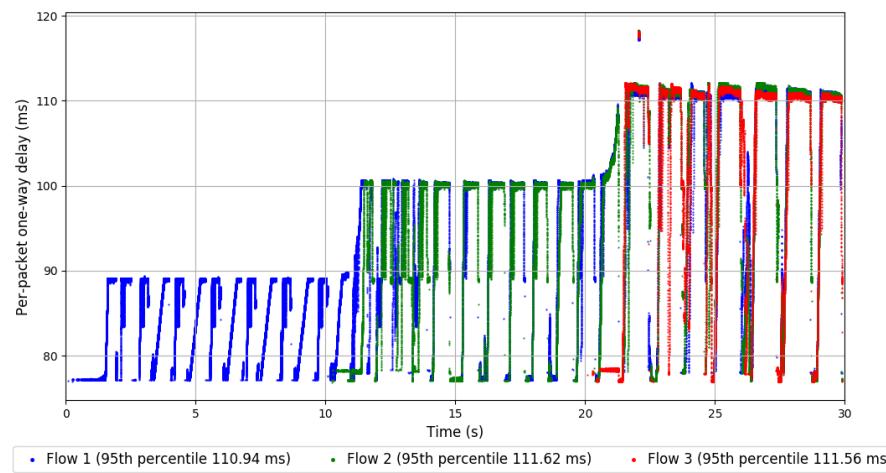
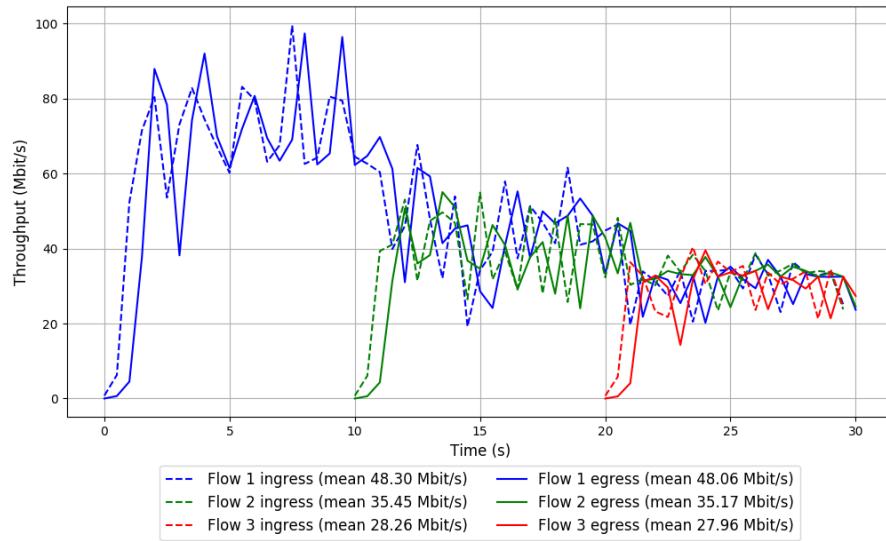
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	43.92	32.84	25.63	113.06	116.60	119.56	3.54	4.79	6.55
Copa	10	49.10	30.62	25.63	100.63	107.51	111.93	1.94	2.33	3.32
TCP Cubic	10	37.06	26.60	21.70	93.99	99.31	107.17	0.52	0.78	1.93
FillP	10	54.09	36.69	27.45	107.72	111.53	117.29	3.40	5.79	7.49
Indigo	10	54.60	35.91	26.51	113.34	116.45	115.37	4.53	2.90	4.19
LEDBAT	10	12.75	8.54	4.10	84.64	84.53	83.89	1.07	1.66	3.43
PCC-Allegro	10	56.26	26.79	20.11	104.67	109.75	113.73	6.03	3.51	5.13
PCC-Expr	10	49.29	30.35	20.12	106.46	105.45	104.80	1.91	2.41	4.33
QUIC Cubic	10	28.08	22.50	19.96	99.41	101.36	103.50	1.03	1.39	2.30
SCReAM	10	0.22	0.22	0.22	81.94	82.57	82.66	0.52	0.82	1.72
Sprout	10	0.43	0.42	0.64	83.13	82.62	83.07	0.42	0.42	0.83
TaoVA-100x	10	45.32	33.88	24.19	107.72	109.65	113.30	3.80	4.79	6.45
TCP Vegas	10	26.95	22.09	20.96	92.21	96.14	102.39	0.53	0.89	1.84
Verus	10	32.73	25.75	19.08	110.15	113.18	118.71	3.94	4.50	6.62
PCC-Vivace	10	48.72	24.41	14.42	104.67	106.44	100.58	2.76	2.22	3.05
WebRTC media	10	1.74	0.97	0.37	81.80	81.95	82.05	0.32	0.74	1.94

Run 1: Statistics of TCP BBR

```
Start at: 2018-06-19 09:06:25
End at: 2018-06-19 09:06:55
Local clock offset: -2.932 ms
Remote clock offset: 10.956 ms

# Below is generated by plot.py at 2018-06-19 12:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.59 Mbit/s
95th percentile per-packet one-way delay: 111.325 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 48.06 Mbit/s
95th percentile per-packet one-way delay: 110.935 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 35.17 Mbit/s
95th percentile per-packet one-way delay: 111.622 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 111.556 ms
Loss rate: 2.75%
```

Run 1: Report of TCP BBR — Data Link

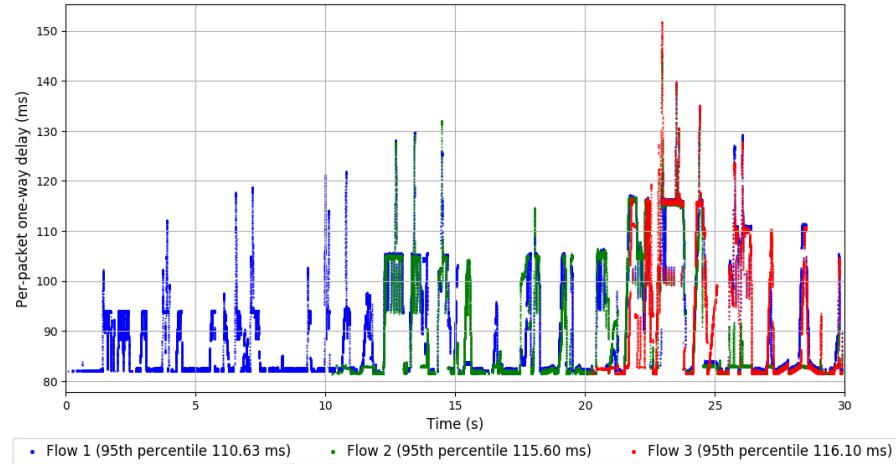
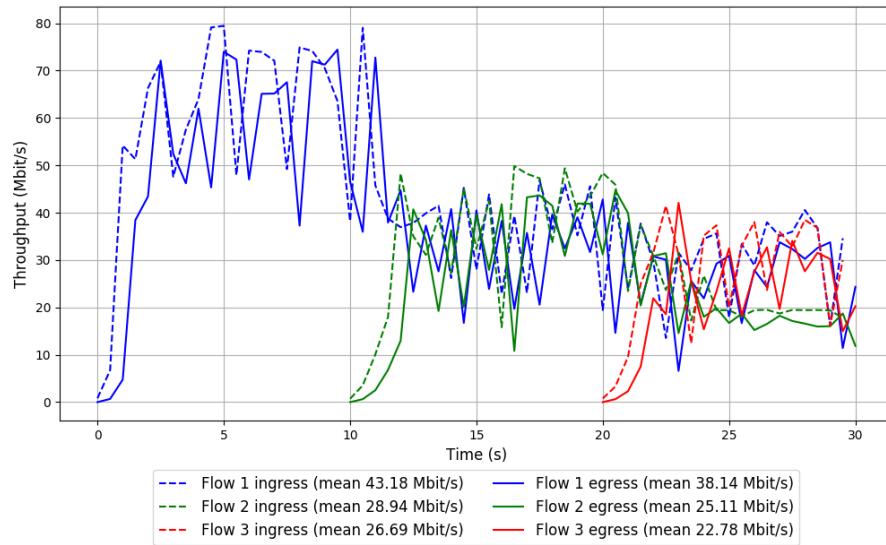


Run 2: Statistics of TCP BBR

```
Start at: 2018-06-19 09:26:13
End at: 2018-06-19 09:26:43
Local clock offset: -3.545 ms
Remote clock offset: 6.198 ms

# Below is generated by plot.py at 2018-06-19 12:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.32 Mbit/s
95th percentile per-packet one-way delay: 115.454 ms
Loss rate: 13.14%
-- Flow 1:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 110.632 ms
Loss rate: 12.17%
-- Flow 2:
Average throughput: 25.11 Mbit/s
95th percentile per-packet one-way delay: 115.600 ms
Loss rate: 13.93%
-- Flow 3:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 116.101 ms
Loss rate: 16.15%
```

Run 2: Report of TCP BBR — Data Link

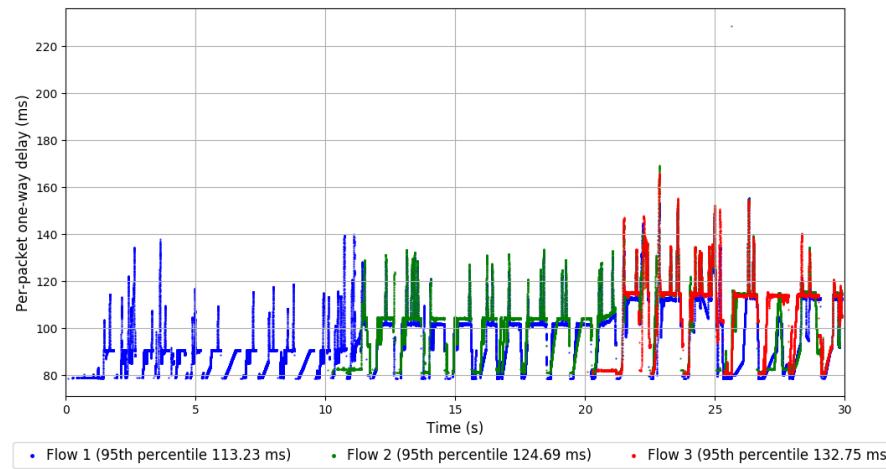
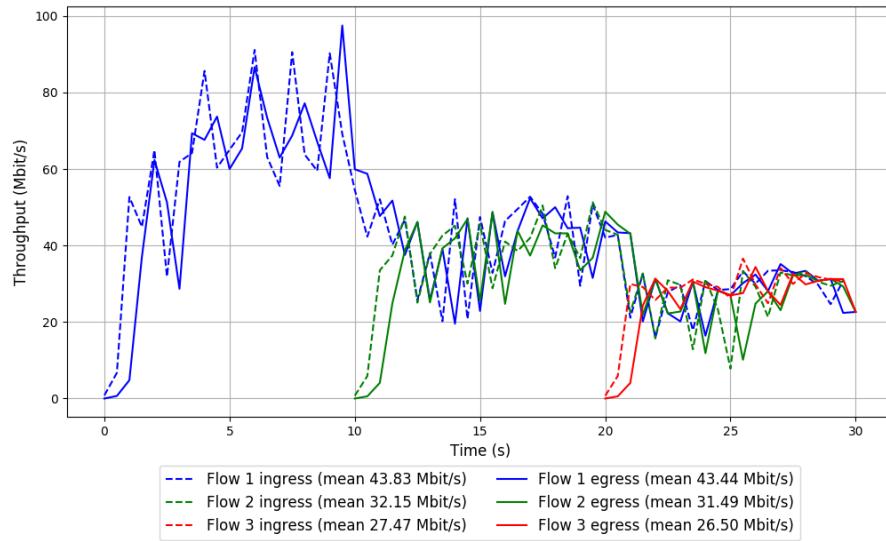


Run 3: Statistics of TCP BBR

```
Start at: 2018-06-19 09:46:00
End at: 2018-06-19 09:46:30
Local clock offset: -2.187 ms
Remote clock offset: 8.03 ms

# Below is generated by plot.py at 2018-06-19 12:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.07 Mbit/s
95th percentile per-packet one-way delay: 119.974 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 43.44 Mbit/s
95th percentile per-packet one-way delay: 113.228 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 124.694 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 26.50 Mbit/s
95th percentile per-packet one-way delay: 132.753 ms
Loss rate: 5.13%
```

Run 3: Report of TCP BBR — Data Link

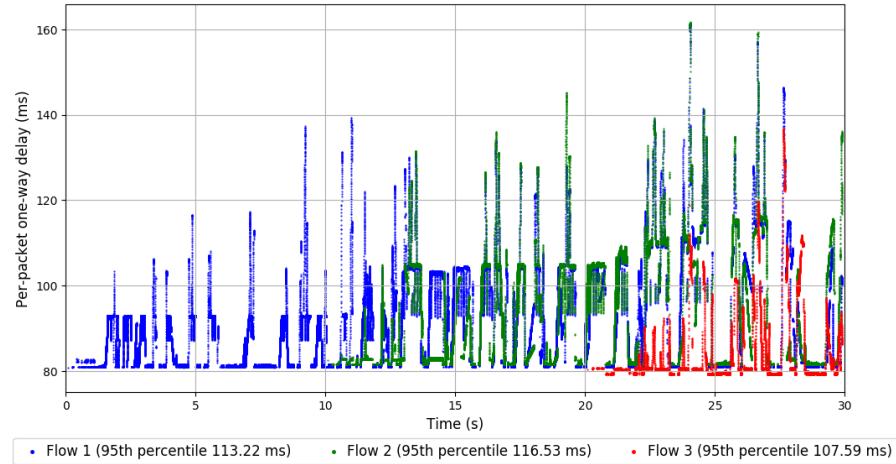
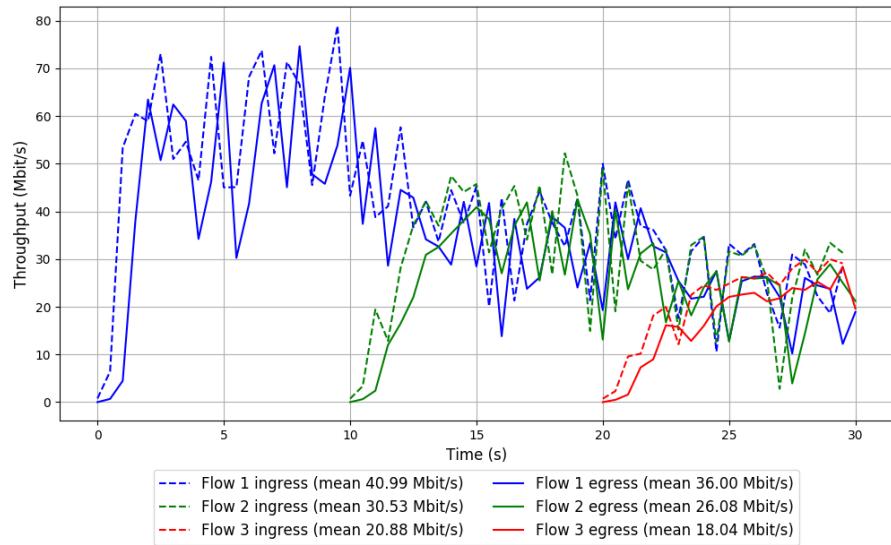


Run 4: Statistics of TCP BBR

```
Start at: 2018-06-19 10:05:59
End at: 2018-06-19 10:06:29
Local clock offset: -1.697 ms
Remote clock offset: 7.6 ms

# Below is generated by plot.py at 2018-06-19 12:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 114.504 ms
Loss rate: 13.68%
-- Flow 1:
Average throughput: 36.00 Mbit/s
95th percentile per-packet one-way delay: 113.216 ms
Loss rate: 12.66%
-- Flow 2:
Average throughput: 26.08 Mbit/s
95th percentile per-packet one-way delay: 116.531 ms
Loss rate: 15.28%
-- Flow 3:
Average throughput: 18.04 Mbit/s
95th percentile per-packet one-way delay: 107.593 ms
Loss rate: 15.00%
```

Run 4: Report of TCP BBR — Data Link

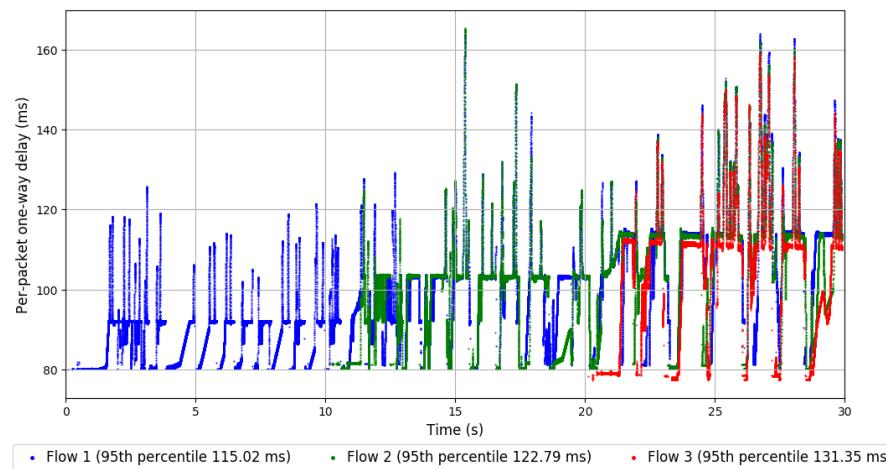
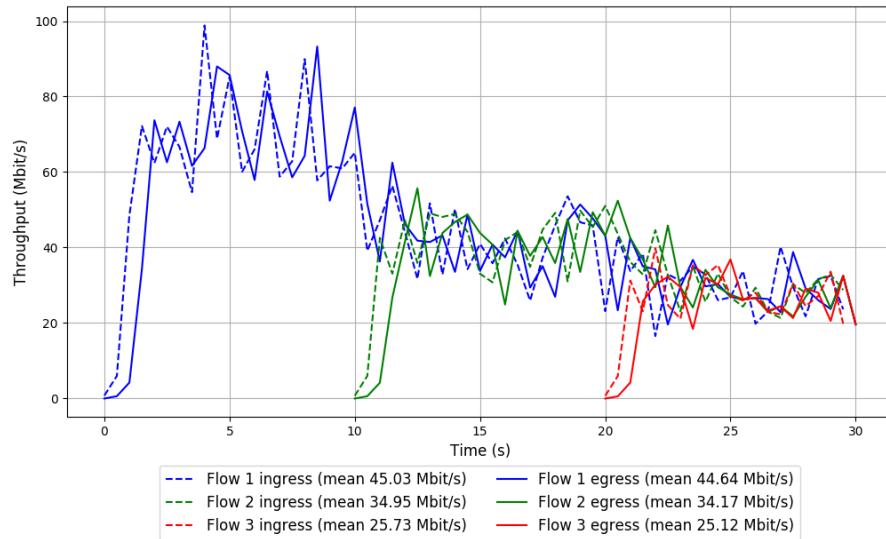


Run 5: Statistics of TCP BBR

```
Start at: 2018-06-19 10:25:49
End at: 2018-06-19 10:26:19
Local clock offset: -1.785 ms
Remote clock offset: 8.571 ms

# Below is generated by plot.py at 2018-06-19 12:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.59 Mbit/s
95th percentile per-packet one-way delay: 120.304 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 44.64 Mbit/s
95th percentile per-packet one-way delay: 115.024 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 122.793 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 131.351 ms
Loss rate: 3.98%
```

Run 5: Report of TCP BBR — Data Link

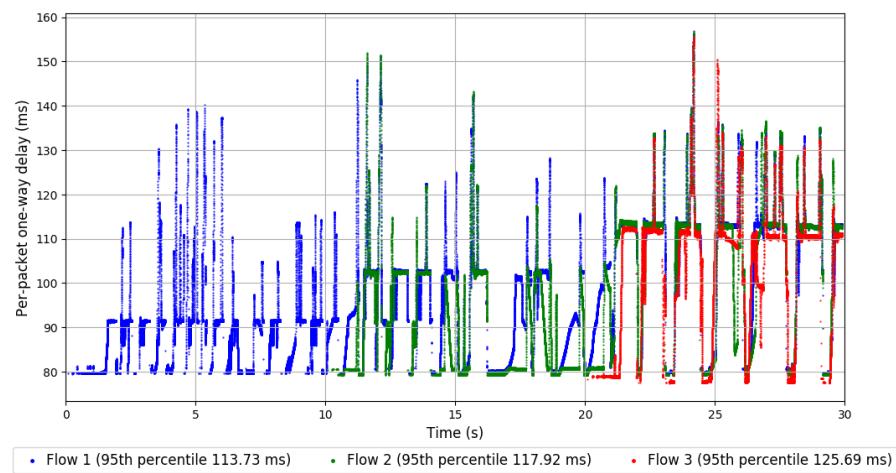
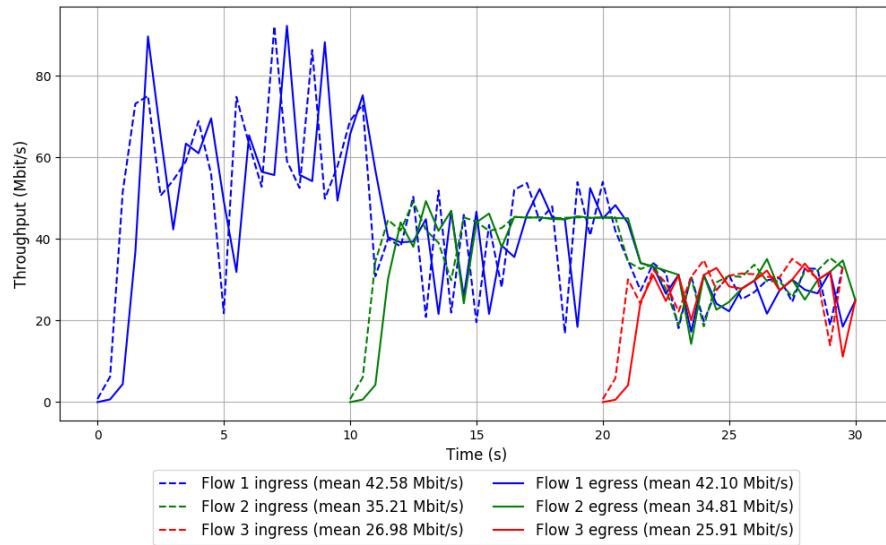


Run 6: Statistics of TCP BBR

```
Start at: 2018-06-19 10:45:40
End at: 2018-06-19 10:46:10
Local clock offset: -1.682 ms
Remote clock offset: 12.641 ms

# Below is generated by plot.py at 2018-06-19 12:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.74 Mbit/s
95th percentile per-packet one-way delay: 115.360 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 42.10 Mbit/s
95th percentile per-packet one-way delay: 113.727 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 117.924 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 125.688 ms
Loss rate: 5.55%
```

Run 6: Report of TCP BBR — Data Link

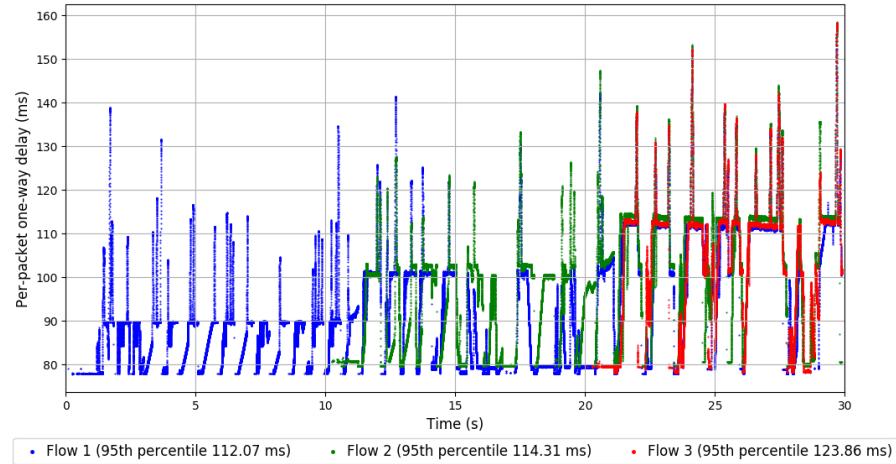
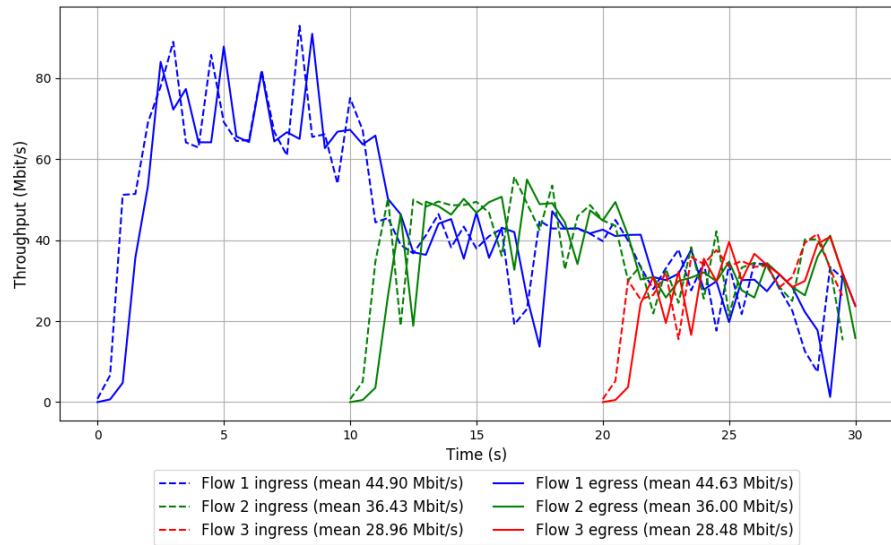


Run 7: Statistics of TCP BBR

```
Start at: 2018-06-19 11:05:38
End at: 2018-06-19 11:06:08
Local clock offset: -1.575 ms
Remote clock offset: 15.691 ms

# Below is generated by plot.py at 2018-06-19 12:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.89 Mbit/s
95th percentile per-packet one-way delay: 113.843 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 44.63 Mbit/s
95th percentile per-packet one-way delay: 112.070 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 36.00 Mbit/s
95th percentile per-packet one-way delay: 114.306 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 123.865 ms
Loss rate: 3.28%
```

Run 7: Report of TCP BBR — Data Link

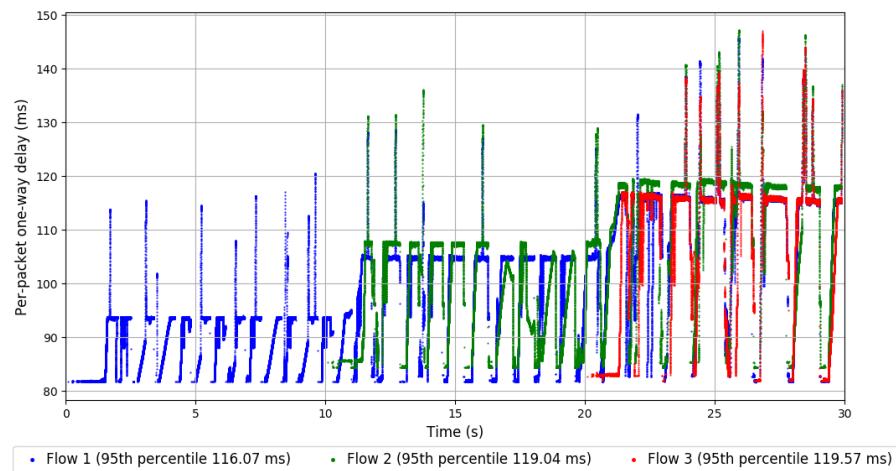
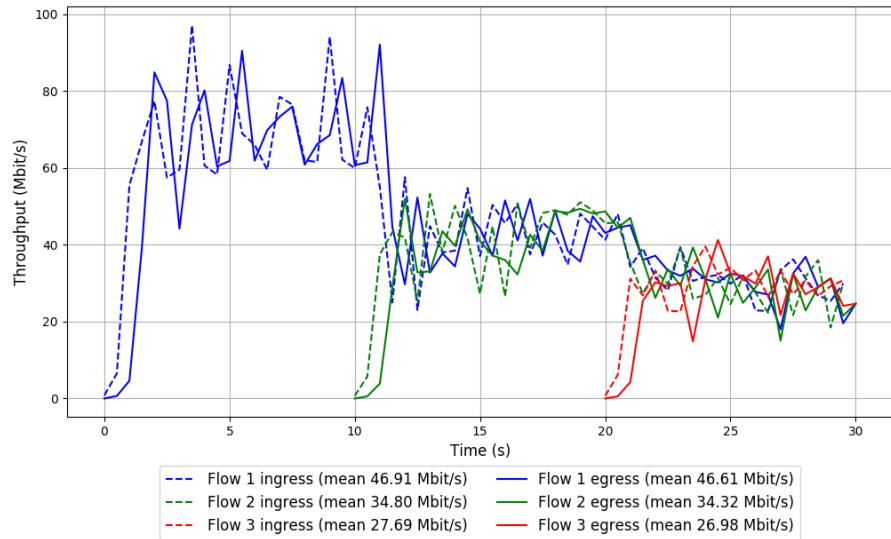


Run 8: Statistics of TCP BBR

```
Start at: 2018-06-19 11:25:26
End at: 2018-06-19 11:25:56
Local clock offset: -2.35 ms
Remote clock offset: 13.176 ms

# Below is generated by plot.py at 2018-06-19 12:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.27 Mbit/s
95th percentile per-packet one-way delay: 118.511 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 46.61 Mbit/s
95th percentile per-packet one-way delay: 116.070 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 34.32 Mbit/s
95th percentile per-packet one-way delay: 119.038 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 26.98 Mbit/s
95th percentile per-packet one-way delay: 119.570 ms
Loss rate: 4.32%
```

Run 8: Report of TCP BBR — Data Link

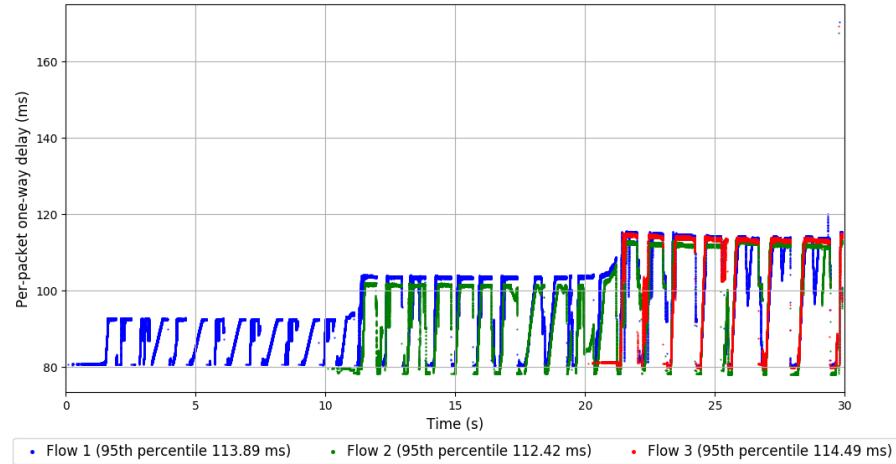
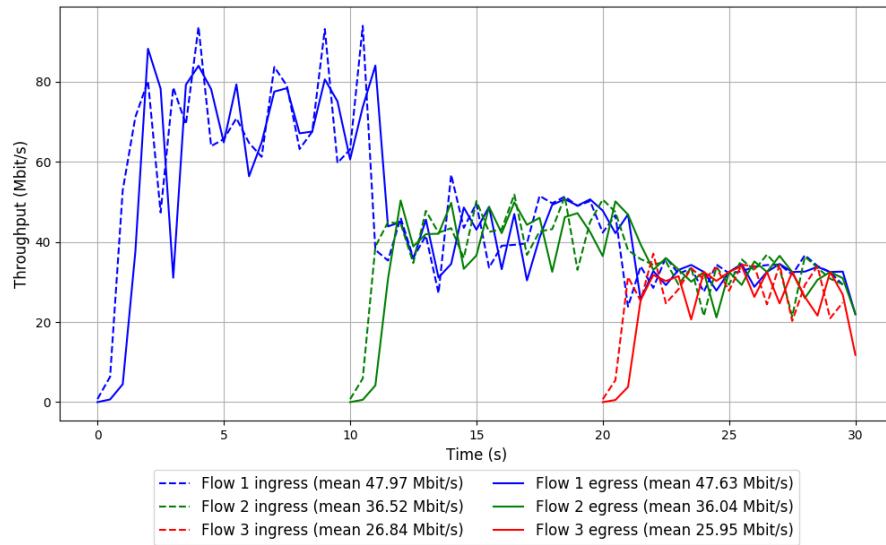


Run 9: Statistics of TCP BBR

```
Start at: 2018-06-19 11:45:41
End at: 2018-06-19 11:46:11
Local clock offset: -2.98 ms
Remote clock offset: 16.696 ms

# Below is generated by plot.py at 2018-06-19 12:25:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.08 Mbit/s
95th percentile per-packet one-way delay: 113.843 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 113.886 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 36.04 Mbit/s
95th percentile per-packet one-way delay: 112.423 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 25.95 Mbit/s
95th percentile per-packet one-way delay: 114.490 ms
Loss rate: 4.93%
```

Run 9: Report of TCP BBR — Data Link

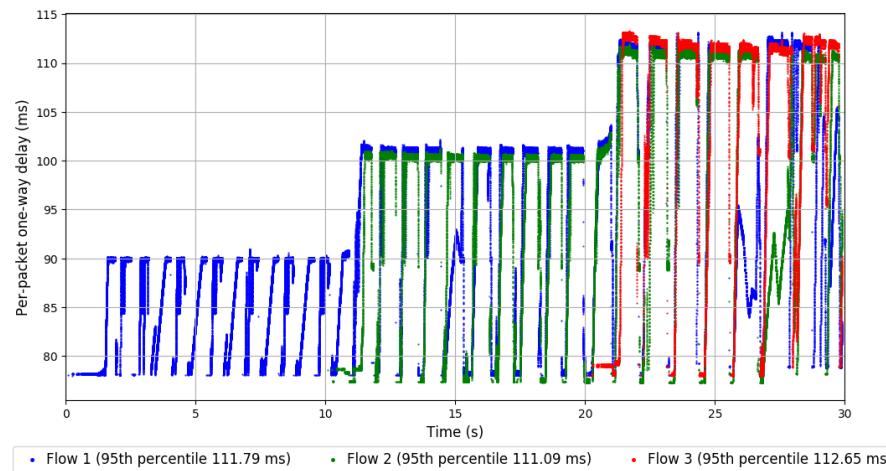
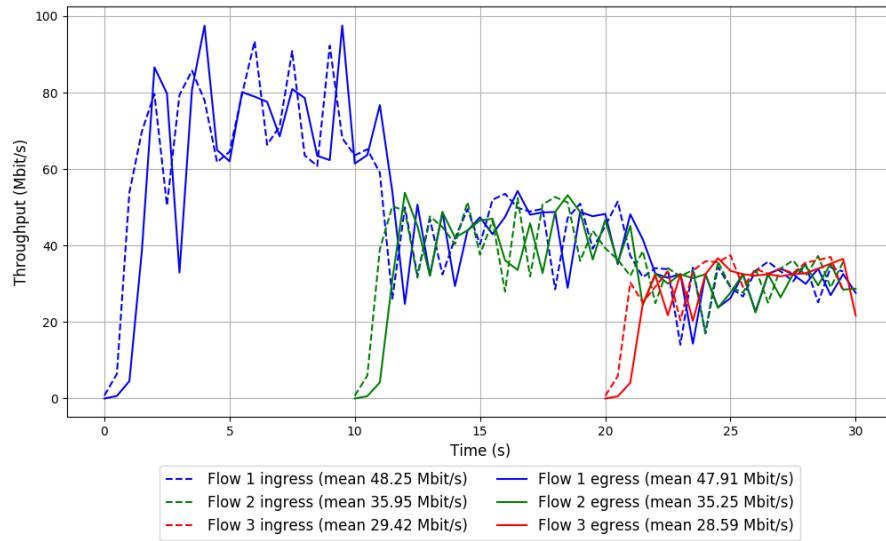


Run 10: Statistics of TCP BBR

```
Start at: 2018-06-19 12:05:43
End at: 2018-06-19 12:06:13
Local clock offset: -3.113 ms
Remote clock offset: 8.855 ms

# Below is generated by plot.py at 2018-06-19 12:25:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.72 Mbit/s
95th percentile per-packet one-way delay: 111.921 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 47.91 Mbit/s
95th percentile per-packet one-way delay: 111.786 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 35.25 Mbit/s
95th percentile per-packet one-way delay: 111.089 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 112.654 ms
Loss rate: 4.40%
```

Run 10: Report of TCP BBR — Data Link

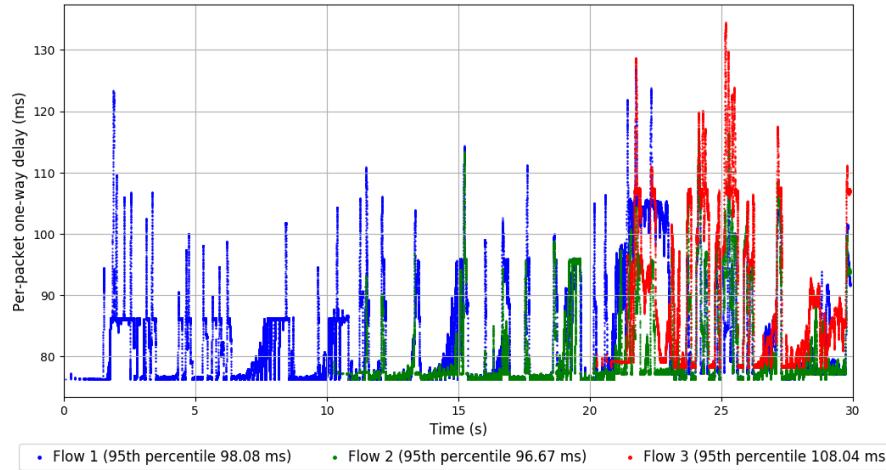
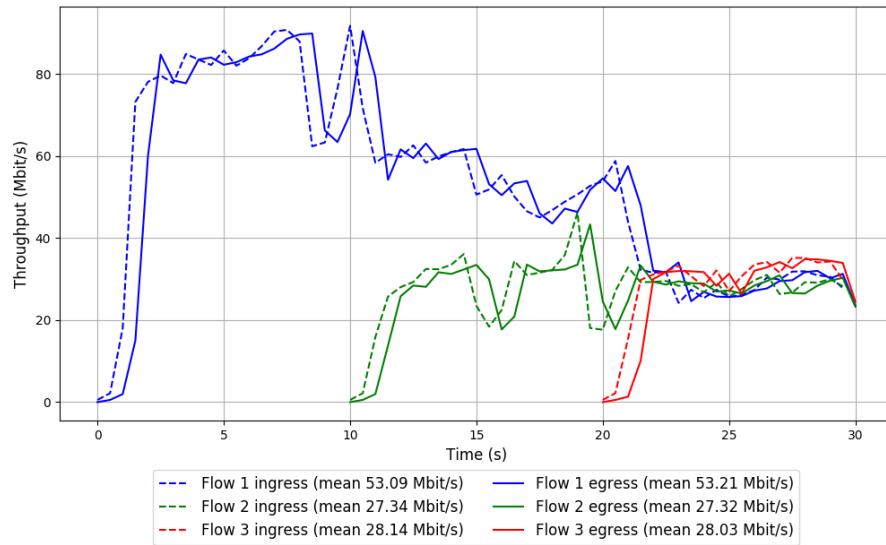


Run 1: Statistics of Copa

```
Start at: 2018-06-19 09:20:03
End at: 2018-06-19 09:20:33
Local clock offset: -3.425 ms
Remote clock offset: 11.285 ms

# Below is generated by plot.py at 2018-06-19 12:26:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.58 Mbit/s
95th percentile per-packet one-way delay: 102.481 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 53.21 Mbit/s
95th percentile per-packet one-way delay: 98.085 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 27.32 Mbit/s
95th percentile per-packet one-way delay: 96.674 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 28.03 Mbit/s
95th percentile per-packet one-way delay: 108.043 ms
Loss rate: 2.01%
```

Run 1: Report of Copa — Data Link

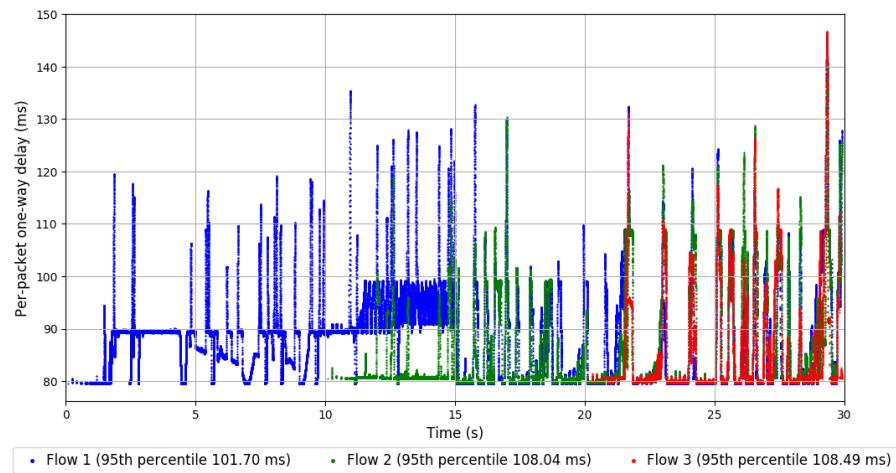
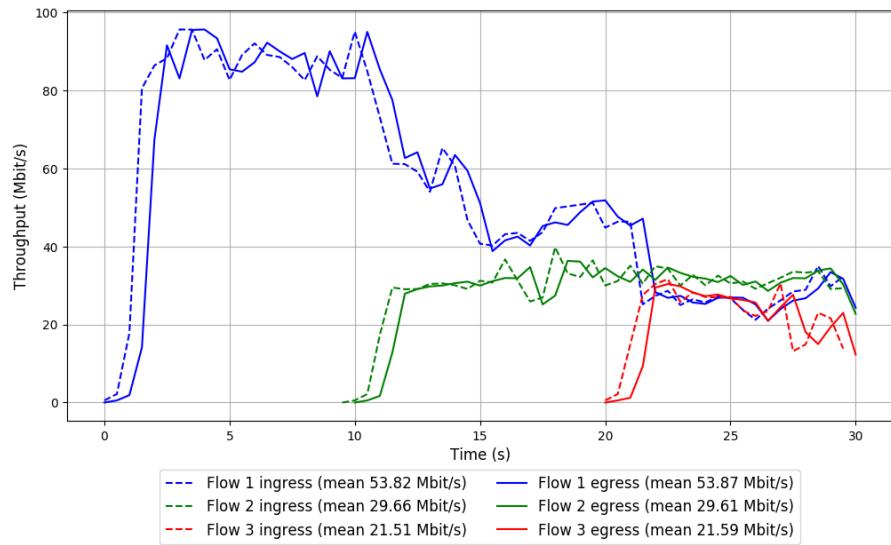


Run 2: Statistics of Copa

```
Start at: 2018-06-19 09:39:51
End at: 2018-06-19 09:40:21
Local clock offset: -2.695 ms
Remote clock offset: 9.307 ms

# Below is generated by plot.py at 2018-06-19 12:26:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.64 Mbit/s
95th percentile per-packet one-way delay: 106.084 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 53.87 Mbit/s
95th percentile per-packet one-way delay: 101.701 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 108.038 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 108.490 ms
Loss rate: 1.27%
```

Run 2: Report of Copa — Data Link

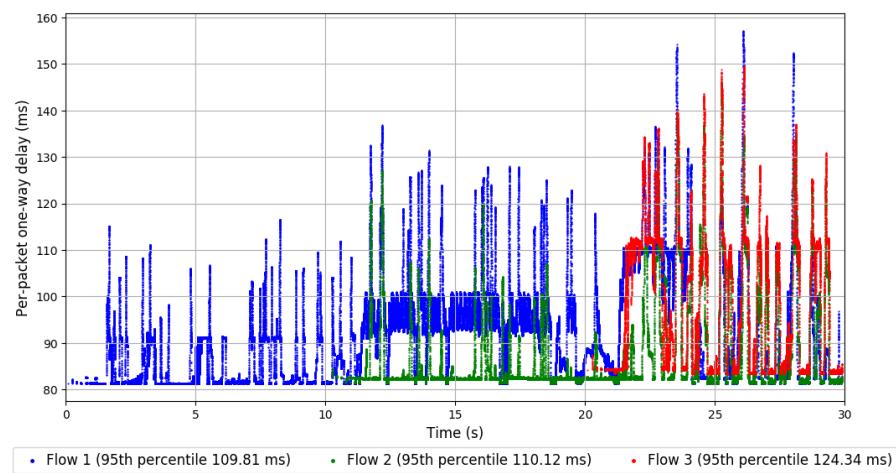
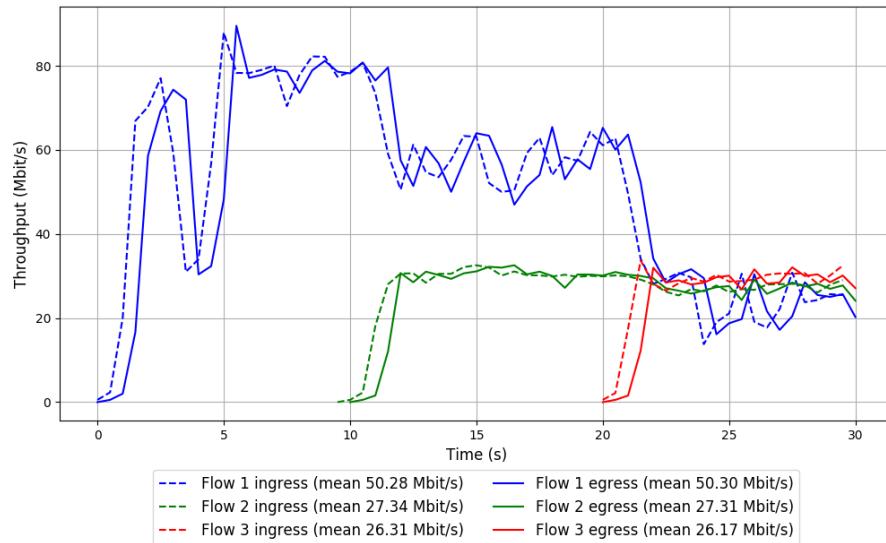


Run 3: Statistics of Copa

```
Start at: 2018-06-19 09:59:49
End at: 2018-06-19 10:00:19
Local clock offset: -1.654 ms
Remote clock offset: 5.237 ms

# Below is generated by plot.py at 2018-06-19 12:26:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.05 Mbit/s
95th percentile per-packet one-way delay: 111.778 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 109.810 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 27.31 Mbit/s
95th percentile per-packet one-way delay: 110.123 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 26.17 Mbit/s
95th percentile per-packet one-way delay: 124.343 ms
Loss rate: 2.20%
```

Run 3: Report of Copa — Data Link

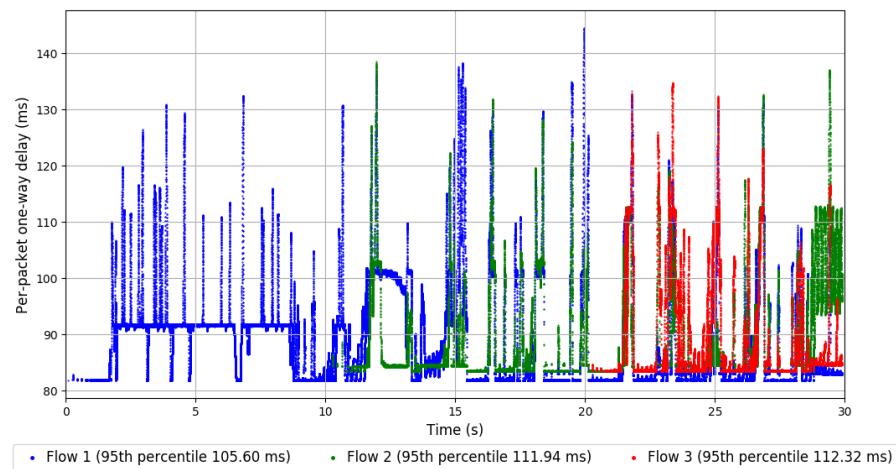
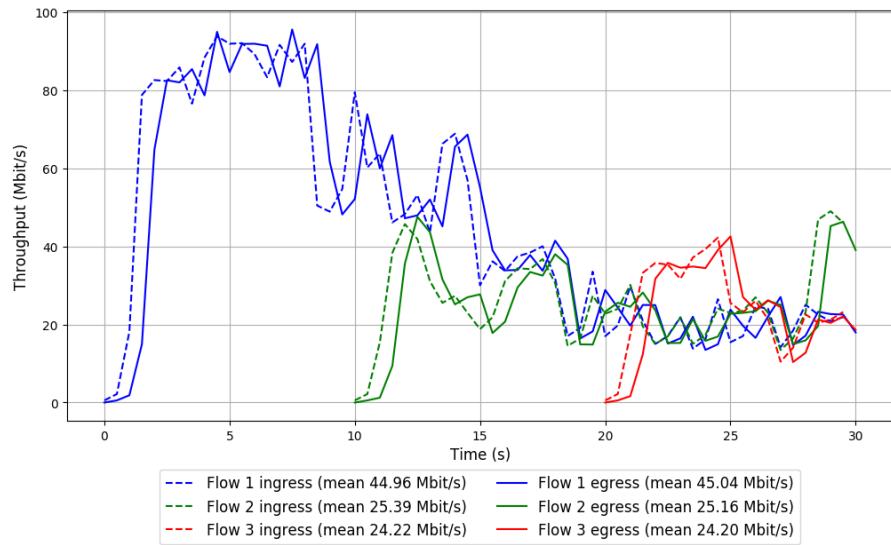


Run 4: Statistics of Copa

```
Start at: 2018-06-19 10:19:37
End at: 2018-06-19 10:20:07
Local clock offset: -1.812 ms
Remote clock offset: 4.831 ms

# Below is generated by plot.py at 2018-06-19 12:26:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.71 Mbit/s
95th percentile per-packet one-way delay: 109.678 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 45.04 Mbit/s
95th percentile per-packet one-way delay: 105.598 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 25.16 Mbit/s
95th percentile per-packet one-way delay: 111.936 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 24.20 Mbit/s
95th percentile per-packet one-way delay: 112.324 ms
Loss rate: 1.75%
```

Run 4: Report of Copa — Data Link

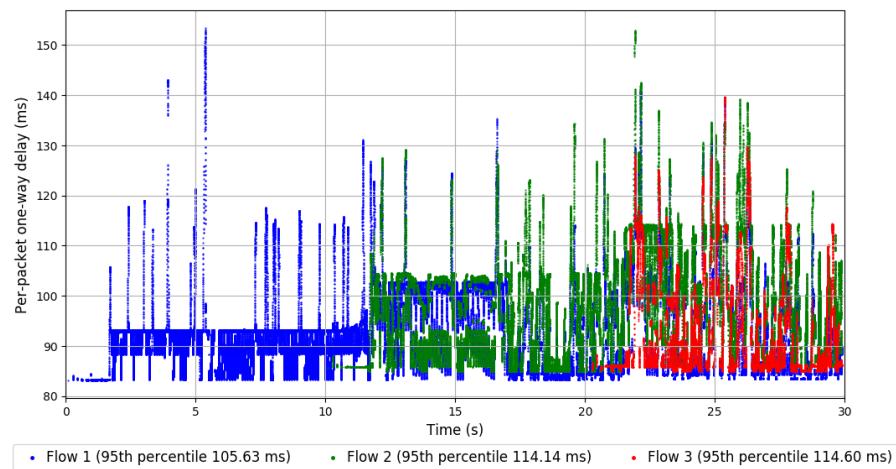
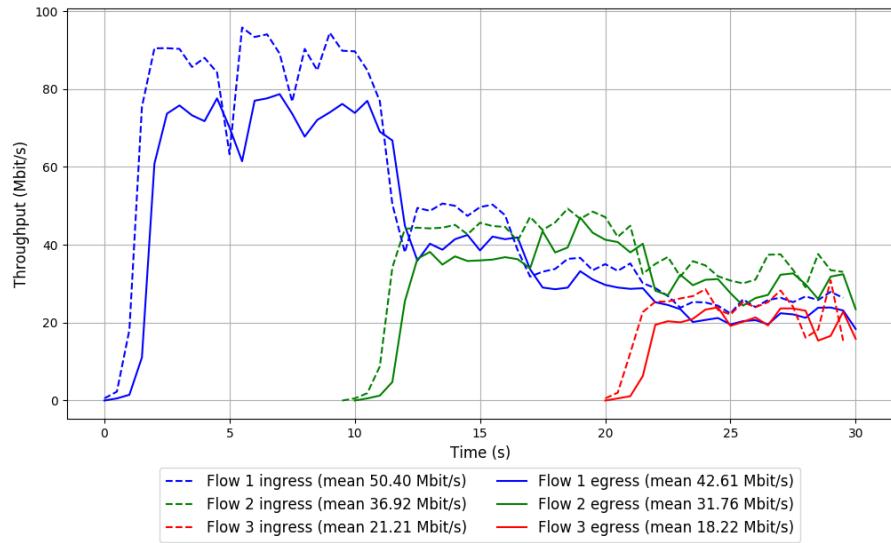


Run 5: Statistics of Copa

```
Start at: 2018-06-19 10:39:31
End at: 2018-06-19 10:40:01
Local clock offset: -1.67 ms
Remote clock offset: 5.216 ms

# Below is generated by plot.py at 2018-06-19 12:26:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.71 Mbit/s
95th percentile per-packet one-way delay: 113.268 ms
Loss rate: 15.47%
-- Flow 1:
Average throughput: 42.61 Mbit/s
95th percentile per-packet one-way delay: 105.632 ms
Loss rate: 15.87%
-- Flow 2:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 114.145 ms
Loss rate: 14.63%
-- Flow 3:
Average throughput: 18.22 Mbit/s
95th percentile per-packet one-way delay: 114.604 ms
Loss rate: 15.51%
```

Run 5: Report of Copa — Data Link

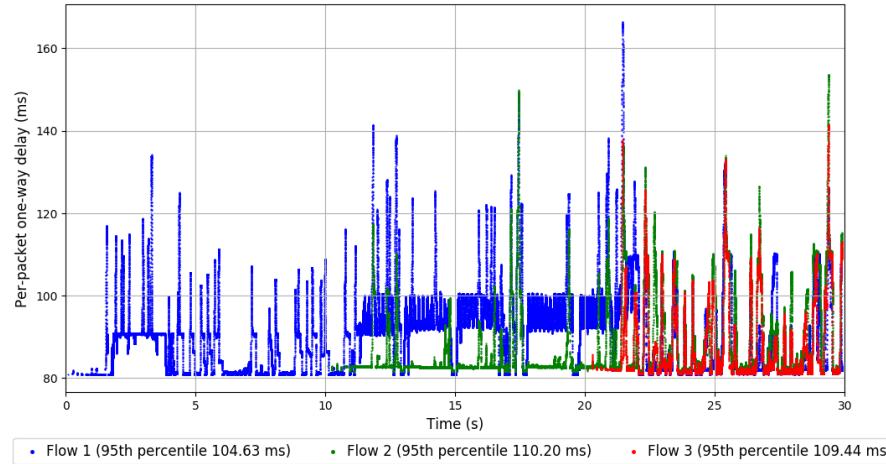
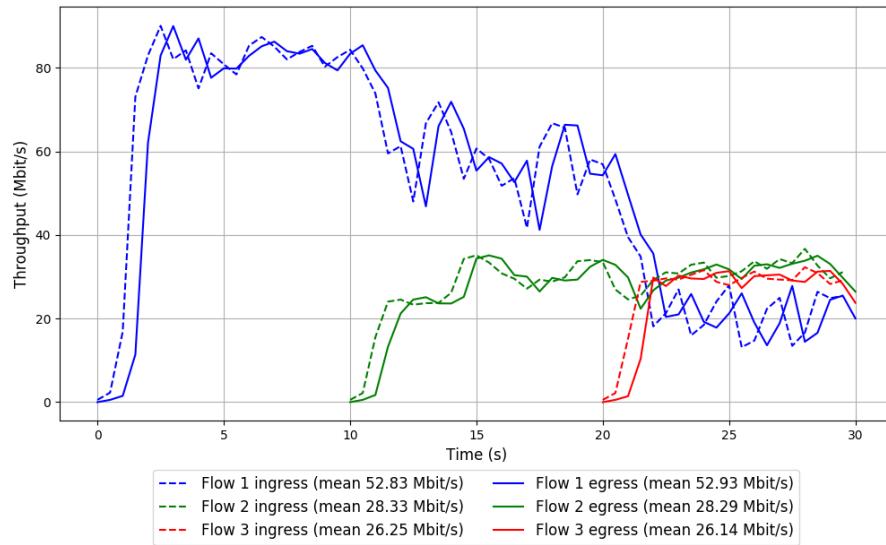


Run 6: Statistics of Copa

```
Start at: 2018-06-19 10:59:29
End at: 2018-06-19 10:59:59
Local clock offset: -1.449 ms
Remote clock offset: 13.878 ms

# Below is generated by plot.py at 2018-06-19 12:26:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.33 Mbit/s
95th percentile per-packet one-way delay: 107.997 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 52.93 Mbit/s
95th percentile per-packet one-way delay: 104.632 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 110.203 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 109.439 ms
Loss rate: 2.04%
```

Run 6: Report of Copa — Data Link

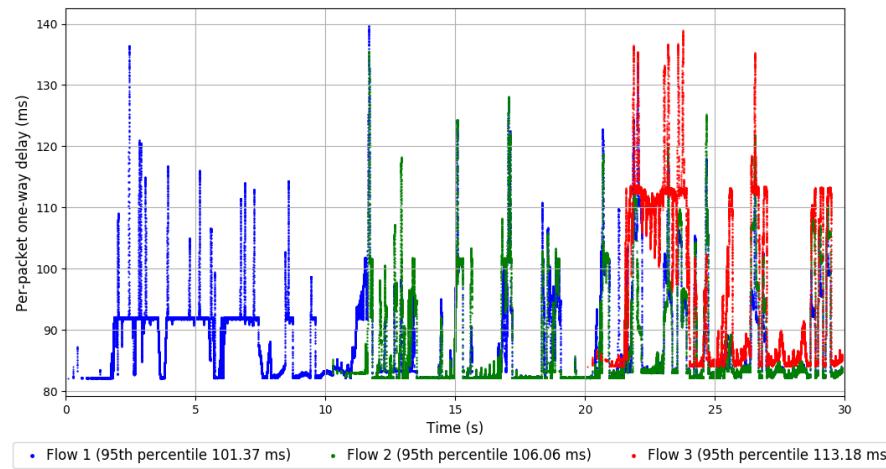
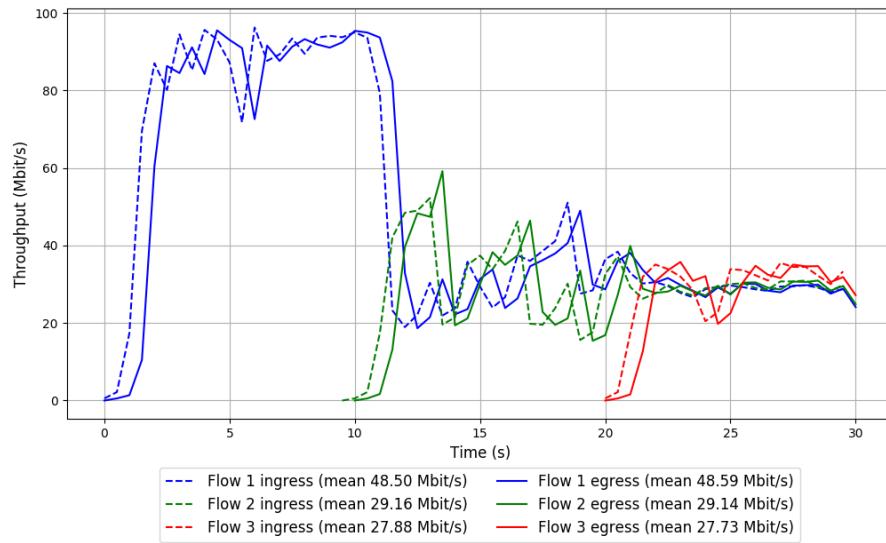


Run 7: Statistics of Copa

```
Start at: 2018-06-19 11:19:17
End at: 2018-06-19 11:19:47
Local clock offset: -2.252 ms
Remote clock offset: 12.767 ms

# Below is generated by plot.py at 2018-06-19 12:27:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.07 Mbit/s
95th percentile per-packet one-way delay: 109.912 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 48.59 Mbit/s
95th percentile per-packet one-way delay: 101.366 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 106.060 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 27.73 Mbit/s
95th percentile per-packet one-way delay: 113.178 ms
Loss rate: 2.18%
```

Run 7: Report of Copa — Data Link

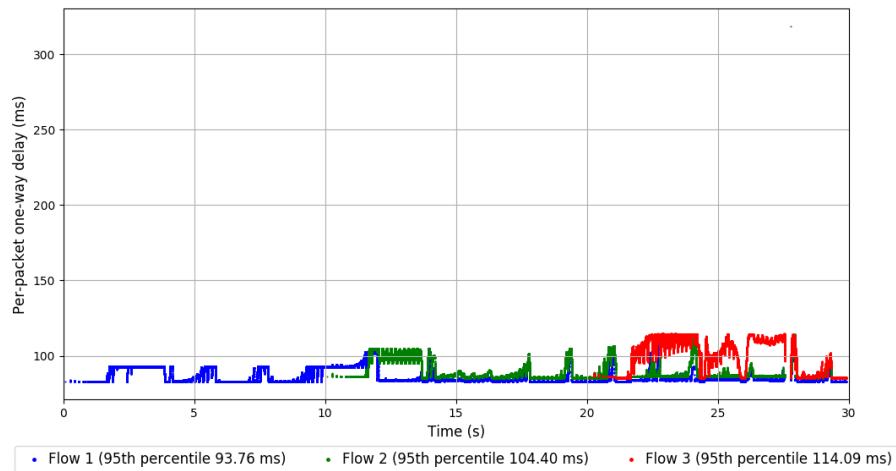
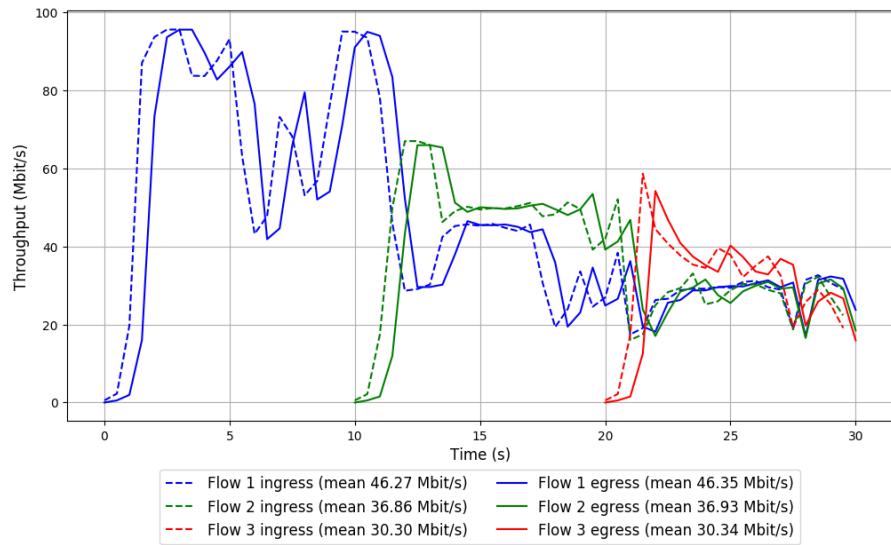


Run 8: Statistics of Copa

```
Start at: 2018-06-19 11:39:29
End at: 2018-06-19 11:39:59
Local clock offset: -2.732 ms
Remote clock offset: 13.228 ms

# Below is generated by plot.py at 2018-06-19 12:27:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.87 Mbit/s
95th percentile per-packet one-way delay: 107.432 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 93.761 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 36.93 Mbit/s
95th percentile per-packet one-way delay: 104.402 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 30.34 Mbit/s
95th percentile per-packet one-way delay: 114.091 ms
Loss rate: 1.52%
```

Run 8: Report of Copa — Data Link

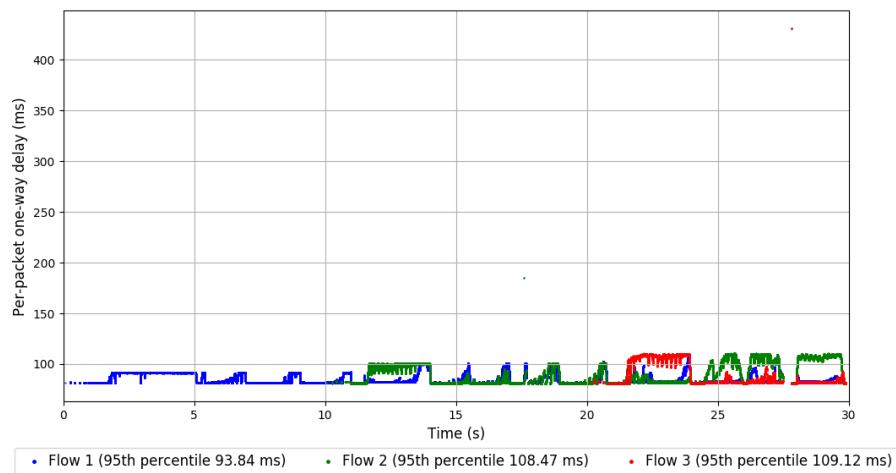
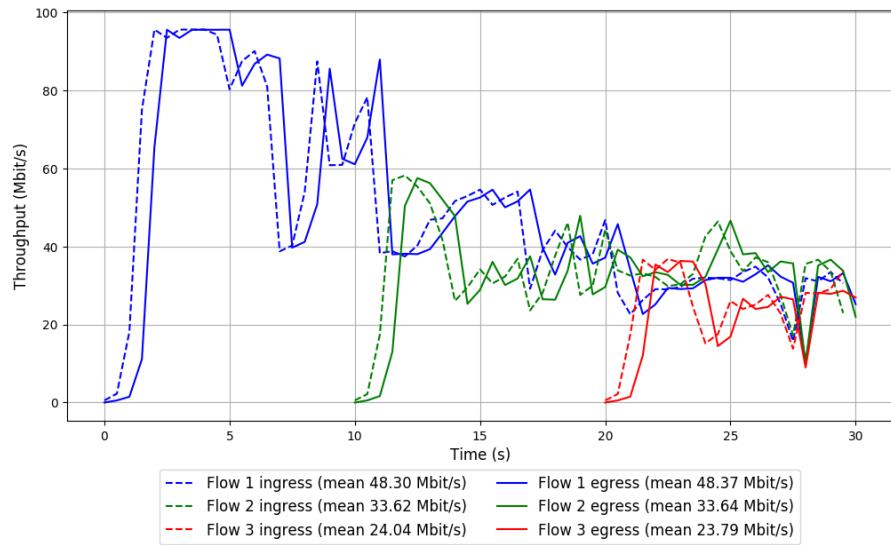


Run 9: Statistics of Copa

```
Start at: 2018-06-19 11:59:33
End at: 2018-06-19 12:00:03
Local clock offset: -3.161 ms
Remote clock offset: 9.228 ms

# Below is generated by plot.py at 2018-06-19 12:28:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.54 Mbit/s
95th percentile per-packet one-way delay: 106.496 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 48.37 Mbit/s
95th percentile per-packet one-way delay: 93.836 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 33.64 Mbit/s
95th percentile per-packet one-way delay: 108.470 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 109.121 ms
Loss rate: 2.67%
```

Run 9: Report of Copa — Data Link

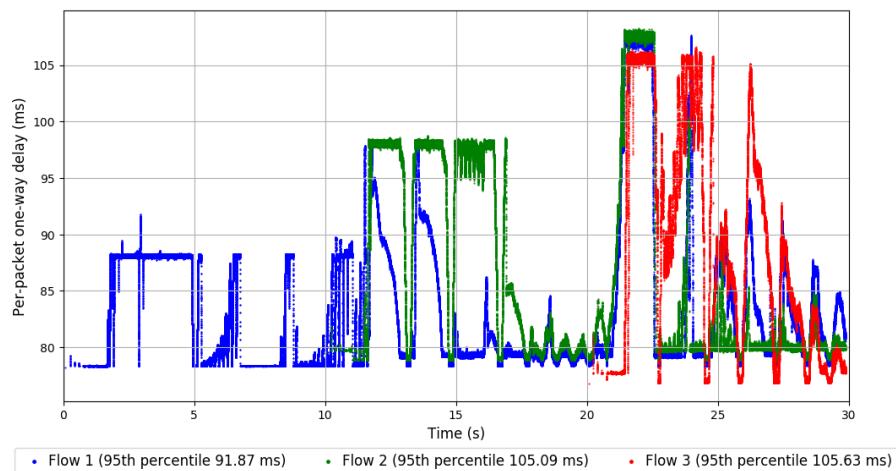
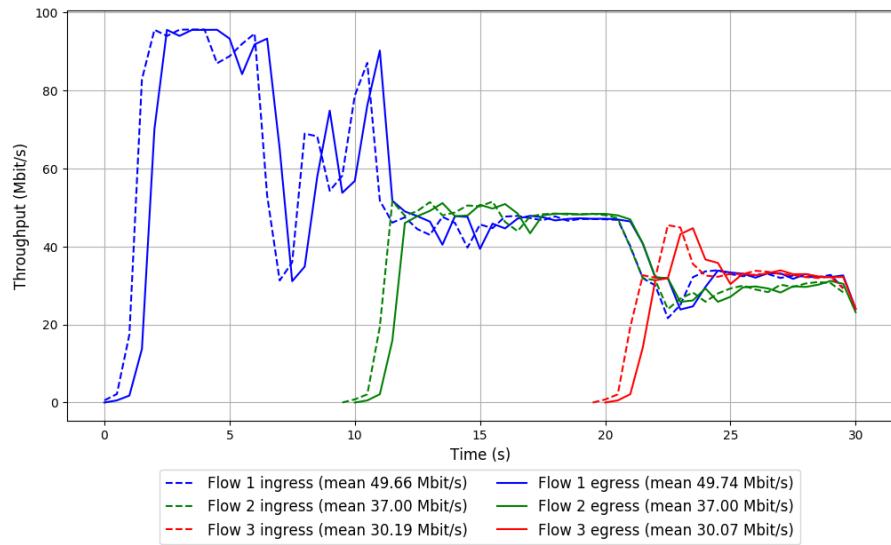


Run 10: Statistics of Copa

```
Start at: 2018-06-19 12:19:27
End at: 2018-06-19 12:19:57
Local clock offset: -2.758 ms
Remote clock offset: 8.297 ms

# Below is generated by plot.py at 2018-06-19 12:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.24 Mbit/s
95th percentile per-packet one-way delay: 102.957 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 49.74 Mbit/s
95th percentile per-packet one-way delay: 91.866 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 105.086 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 105.631 ms
Loss rate: 2.01%
```

Run 10: Report of Copa — Data Link

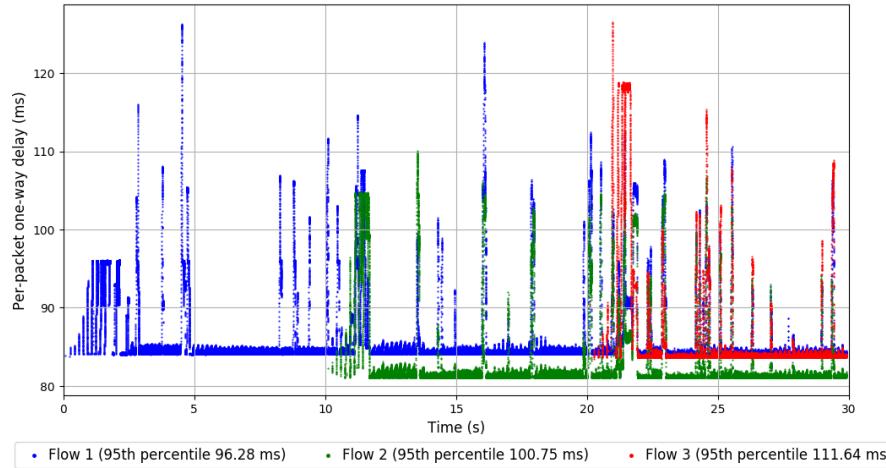
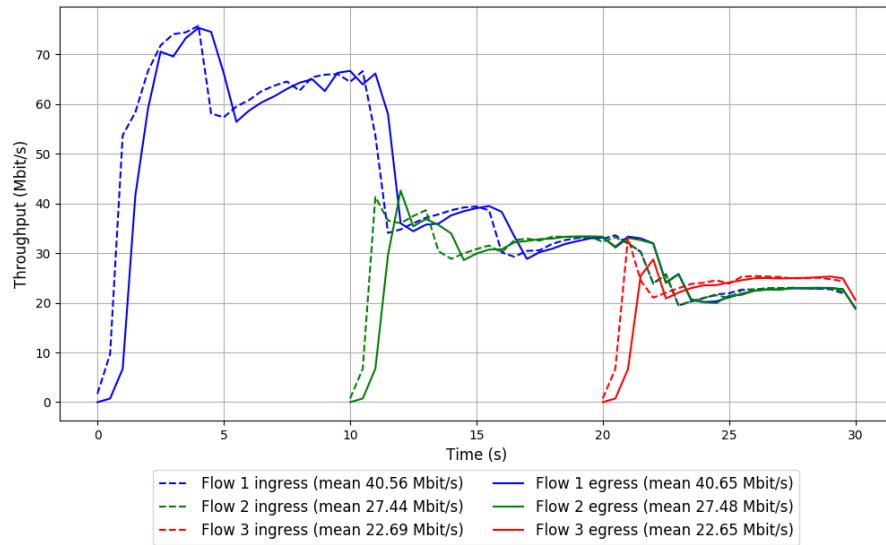


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-06-19 09:21:21
End at: 2018-06-19 09:21:51
Local clock offset: -3.44 ms
Remote clock offset: 6.294 ms

# Below is generated by plot.py at 2018-06-19 12:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.35 Mbit/s
95th percentile per-packet one-way delay: 99.636 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 96.284 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 27.48 Mbit/s
95th percentile per-packet one-way delay: 100.747 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 111.637 ms
Loss rate: 1.89%
```

Run 1: Report of TCP Cubic — Data Link

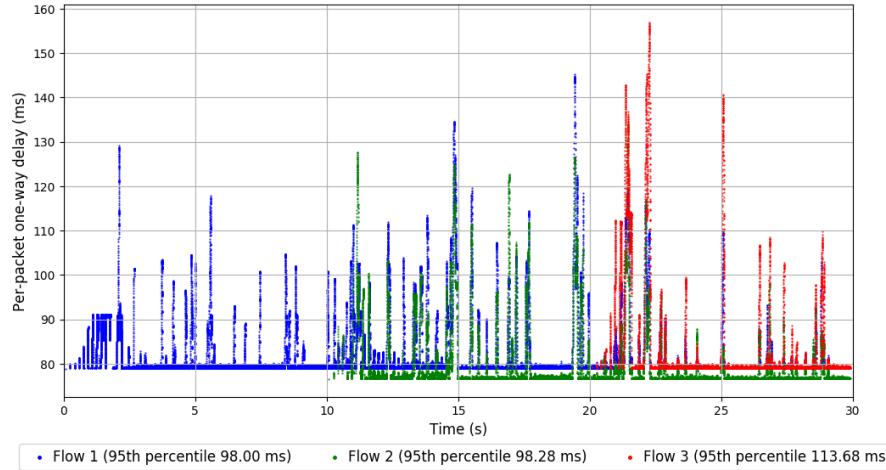
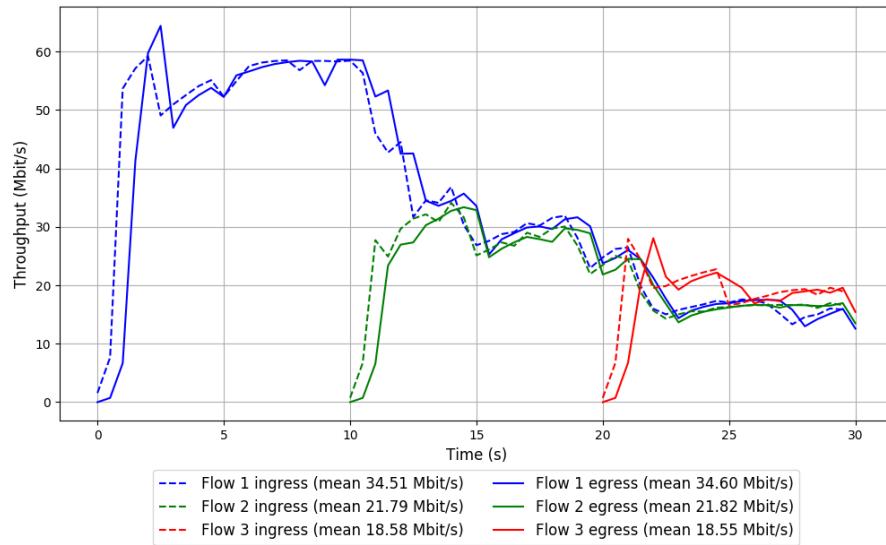


Run 2: Statistics of TCP Cubic

```
Start at: 2018-06-19 09:41:09
End at: 2018-06-19 09:41:39
Local clock offset: -2.542 ms
Remote clock offset: 10.359 ms

# Below is generated by plot.py at 2018-06-19 12:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 99.806 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 34.60 Mbit/s
95th percentile per-packet one-way delay: 97.998 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 21.82 Mbit/s
95th percentile per-packet one-way delay: 98.284 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 18.55 Mbit/s
95th percentile per-packet one-way delay: 113.681 ms
Loss rate: 1.81%
```

Run 2: Report of TCP Cubic — Data Link

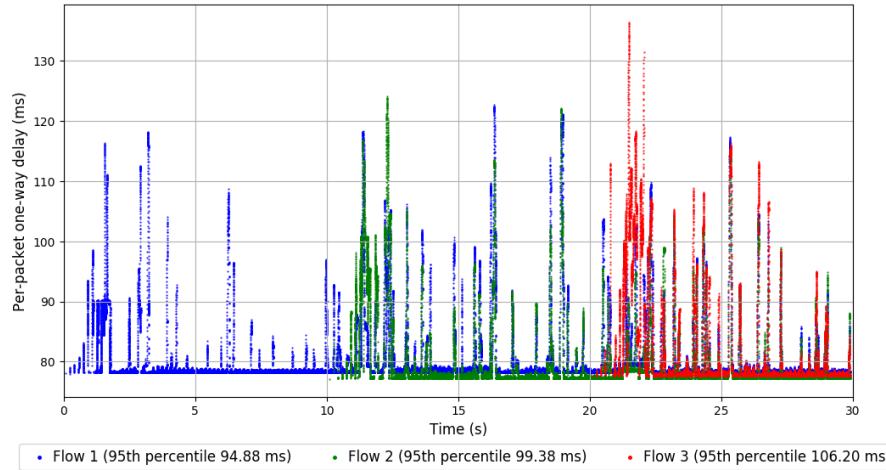
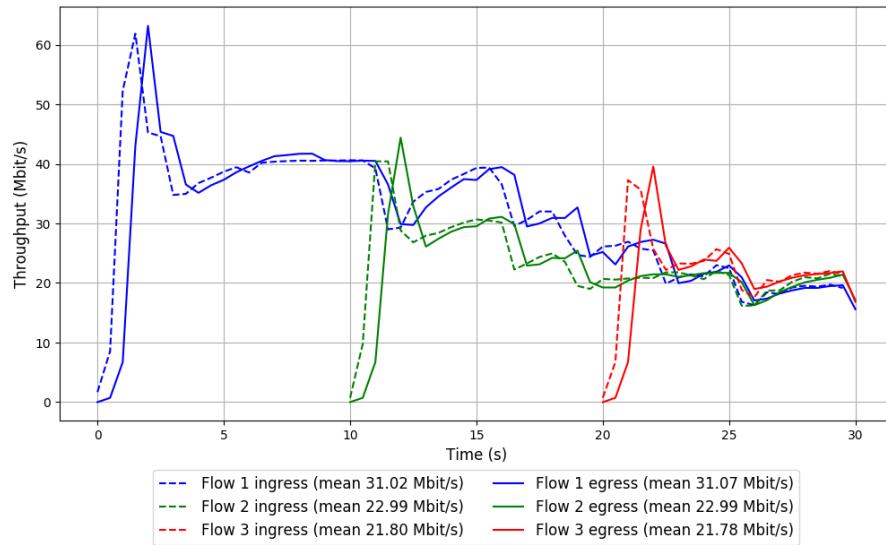


Run 3: Statistics of TCP Cubic

```
Start at: 2018-06-19 10:01:08
End at: 2018-06-19 10:01:38
Local clock offset: -1.627 ms
Remote clock offset: 8.971 ms

# Below is generated by plot.py at 2018-06-19 12:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 99.223 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 94.876 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 22.99 Mbit/s
95th percentile per-packet one-way delay: 99.377 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 21.78 Mbit/s
95th percentile per-packet one-way delay: 106.196 ms
Loss rate: 1.71%
```

Run 3: Report of TCP Cubic — Data Link

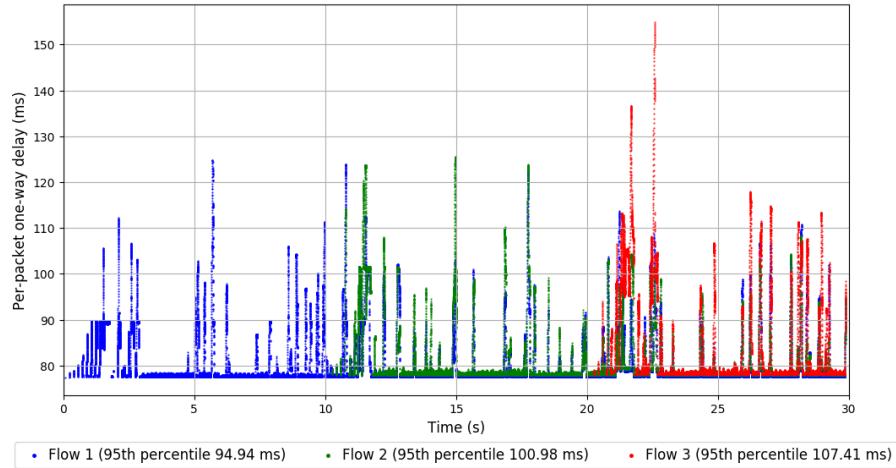
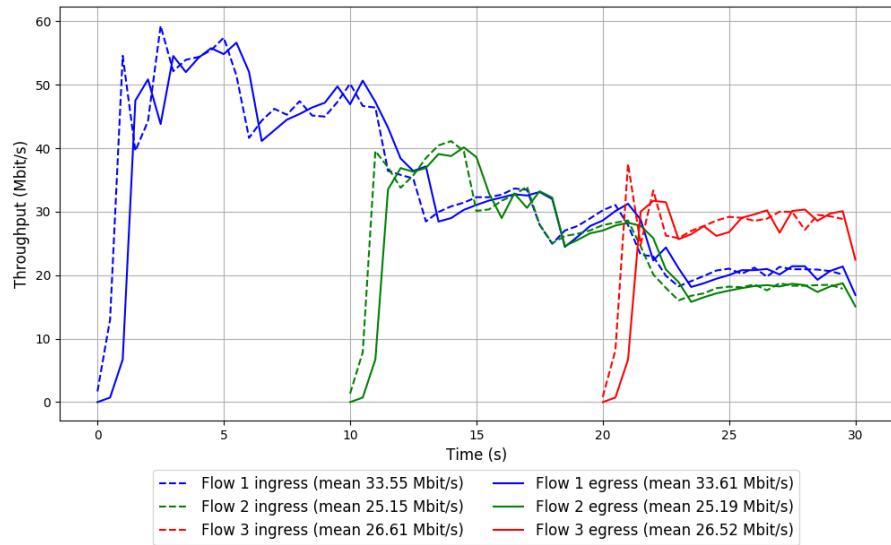


Run 4: Statistics of TCP Cubic

```
Start at: 2018-06-19 10:20:54
End at: 2018-06-19 10:21:24
Local clock offset: -1.879 ms
Remote clock offset: 8.69 ms

# Below is generated by plot.py at 2018-06-19 12:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 100.504 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 33.61 Mbit/s
95th percentile per-packet one-way delay: 94.945 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 100.979 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 26.52 Mbit/s
95th percentile per-packet one-way delay: 107.414 ms
Loss rate: 1.95%
```

Run 4: Report of TCP Cubic — Data Link

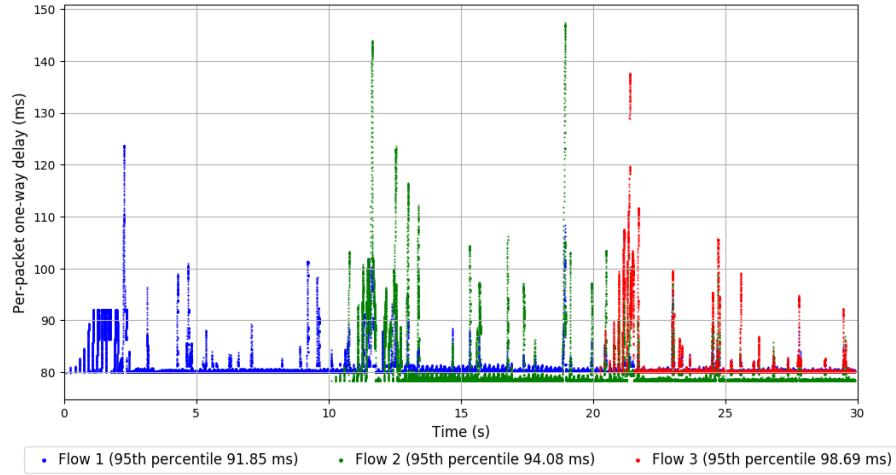
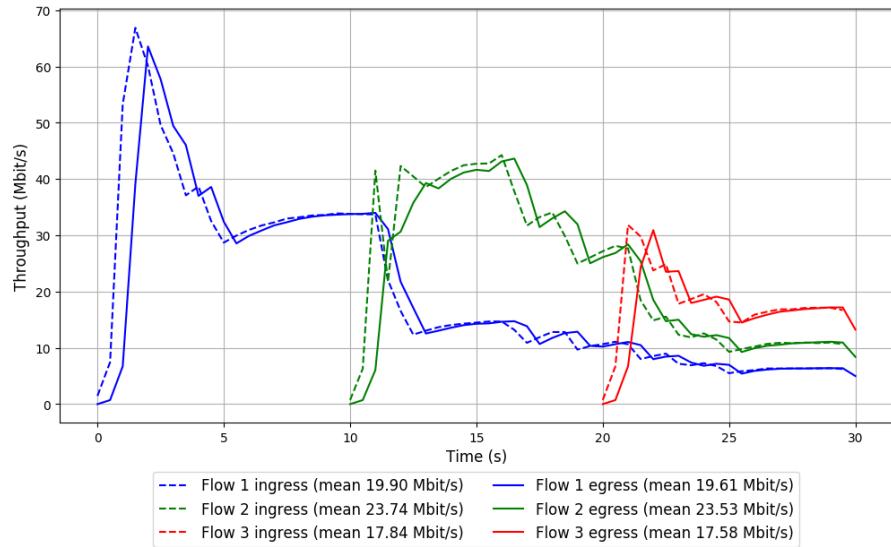


Run 5: Statistics of TCP Cubic

```
Start at: 2018-06-19 10:40:49
End at: 2018-06-19 10:41:19
Local clock offset: -1.655 ms
Remote clock offset: 10.829 ms

# Below is generated by plot.py at 2018-06-19 12:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.02 Mbit/s
95th percentile per-packet one-way delay: 92.004 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 19.61 Mbit/s
95th percentile per-packet one-way delay: 91.849 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 23.53 Mbit/s
95th percentile per-packet one-way delay: 94.080 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 98.691 ms
Loss rate: 3.04%
```

Run 5: Report of TCP Cubic — Data Link

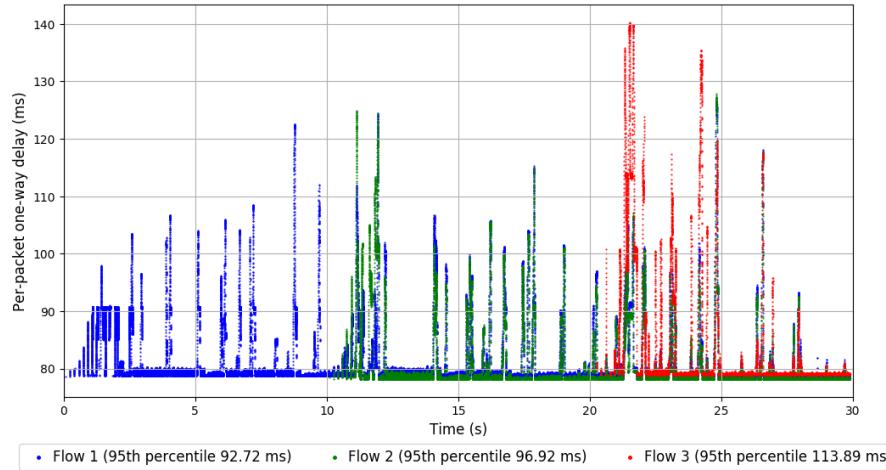
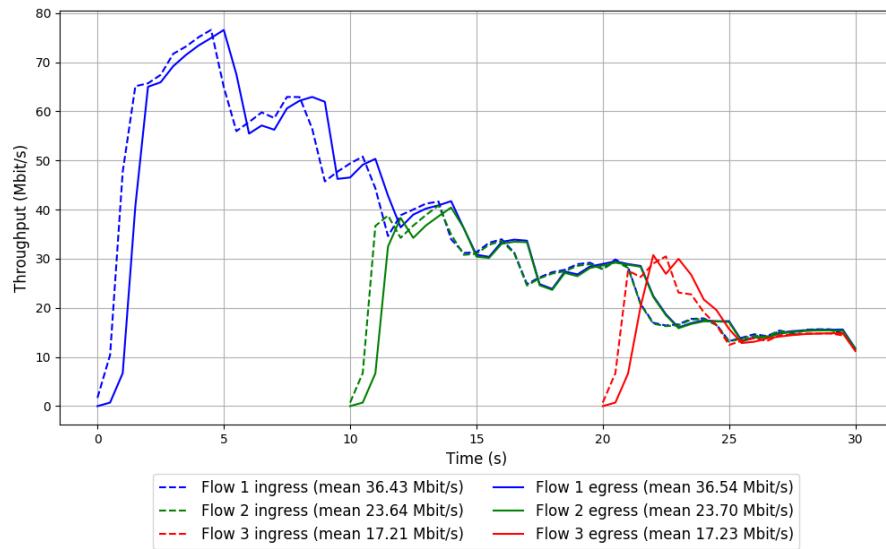


Run 6: Statistics of TCP Cubic

```
Start at: 2018-06-19 11:00:47
End at: 2018-06-19 11:01:17
Local clock offset: -1.506 ms
Remote clock offset: 16.224 ms

# Below is generated by plot.py at 2018-06-19 12:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 97.254 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 36.54 Mbit/s
95th percentile per-packet one-way delay: 92.716 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 23.70 Mbit/s
95th percentile per-packet one-way delay: 96.919 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 17.23 Mbit/s
95th percentile per-packet one-way delay: 113.890 ms
Loss rate: 1.51%
```

Run 6: Report of TCP Cubic — Data Link

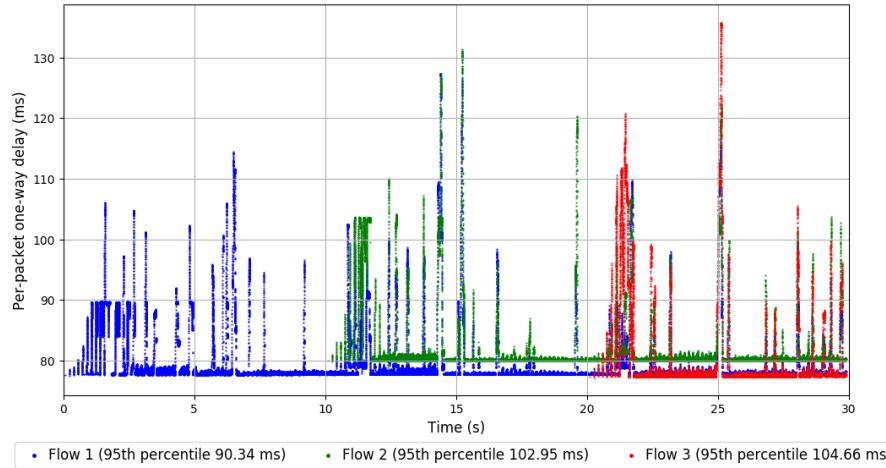
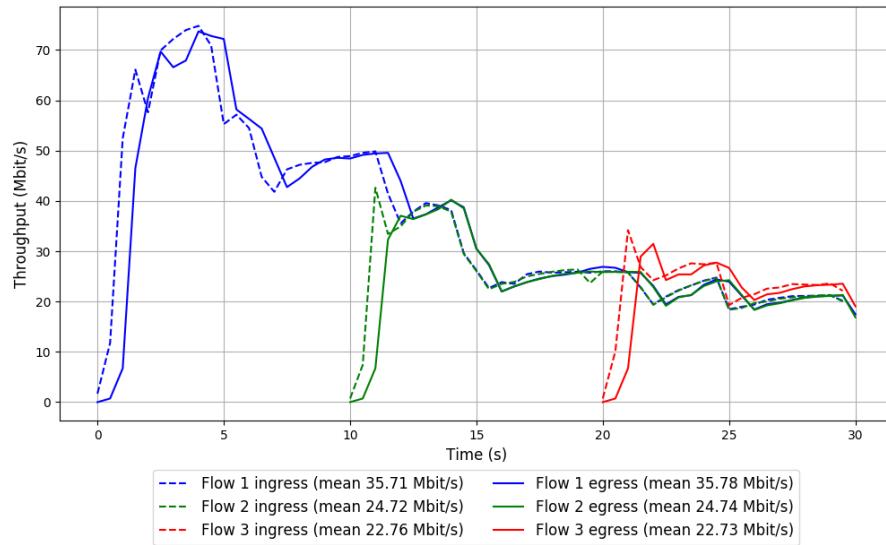


Run 7: Statistics of TCP Cubic

```
Start at: 2018-06-19 11:20:35
End at: 2018-06-19 11:21:05
Local clock offset: -2.273 ms
Remote clock offset: 16.913 ms

# Below is generated by plot.py at 2018-06-19 12:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 96.269 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 35.78 Mbit/s
95th percentile per-packet one-way delay: 90.342 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 102.946 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 104.658 ms
Loss rate: 1.75%
```

Run 7: Report of TCP Cubic — Data Link

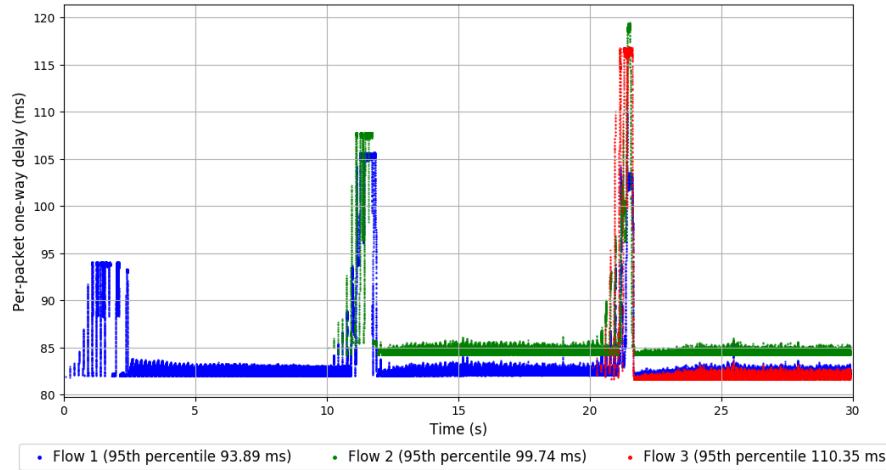
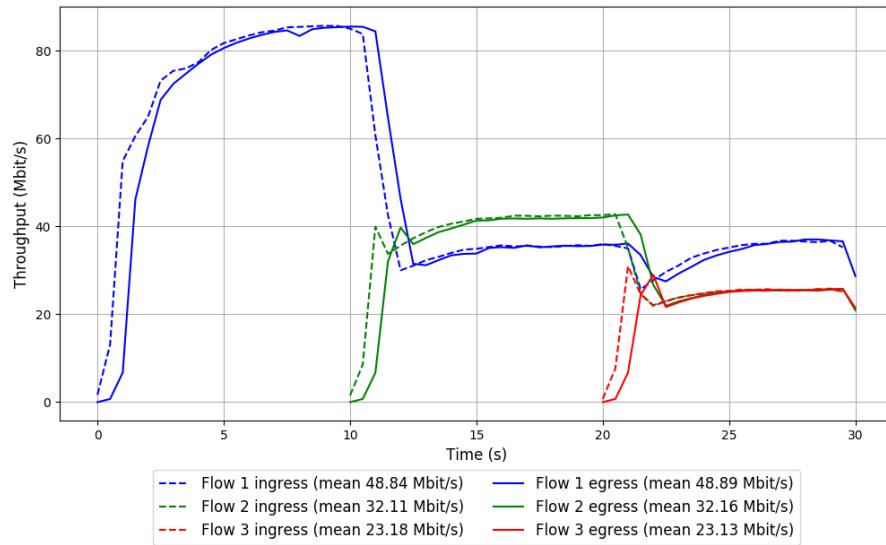


Run 8: Statistics of TCP Cubic

```
Start at: 2018-06-19 11:40:48
End at: 2018-06-19 11:41:18
Local clock offset: -2.844 ms
Remote clock offset: 14.394 ms

# Below is generated by plot.py at 2018-06-19 12:28:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 93.962 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 48.89 Mbit/s
95th percentile per-packet one-way delay: 93.886 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 99.736 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 110.353 ms
Loss rate: 1.86%
```

Run 8: Report of TCP Cubic — Data Link

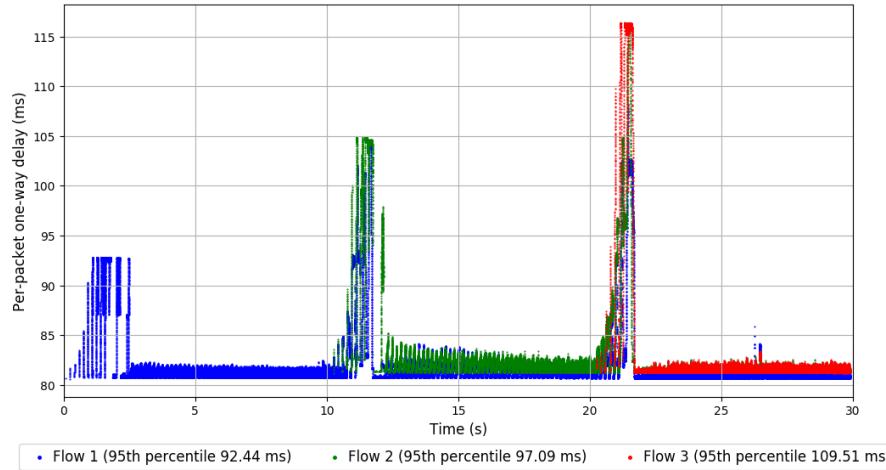
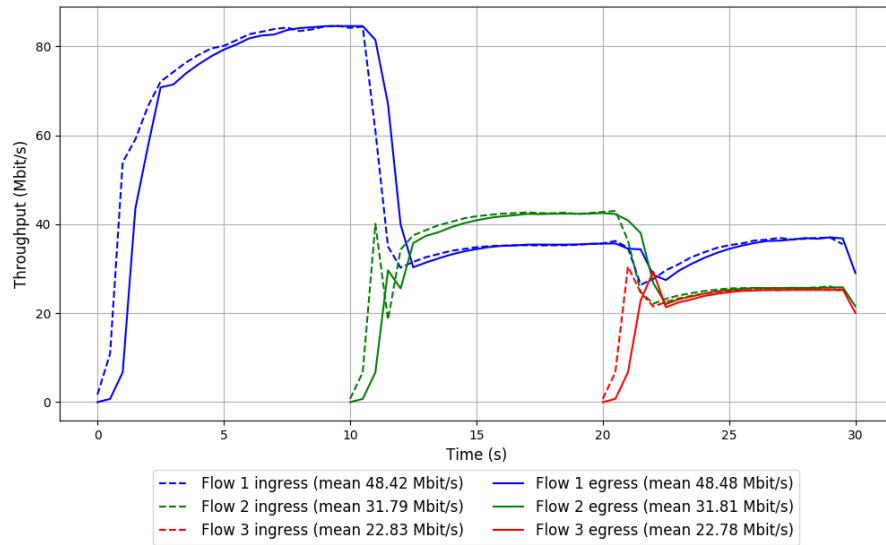


Run 9: Statistics of TCP Cubic

```
Start at: 2018-06-19 12:00:51
End at: 2018-06-19 12:01:21
Local clock offset: -3.17 ms
Remote clock offset: 8.889 ms

# Below is generated by plot.py at 2018-06-19 12:28:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.10 Mbit/s
95th percentile per-packet one-way delay: 92.647 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 48.48 Mbit/s
95th percentile per-packet one-way delay: 92.440 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 97.095 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 109.508 ms
Loss rate: 1.90%
```

Run 9: Report of TCP Cubic — Data Link

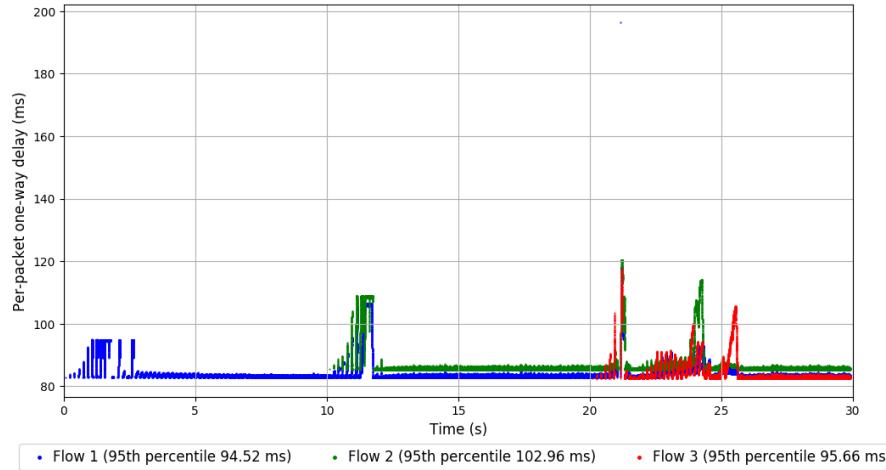
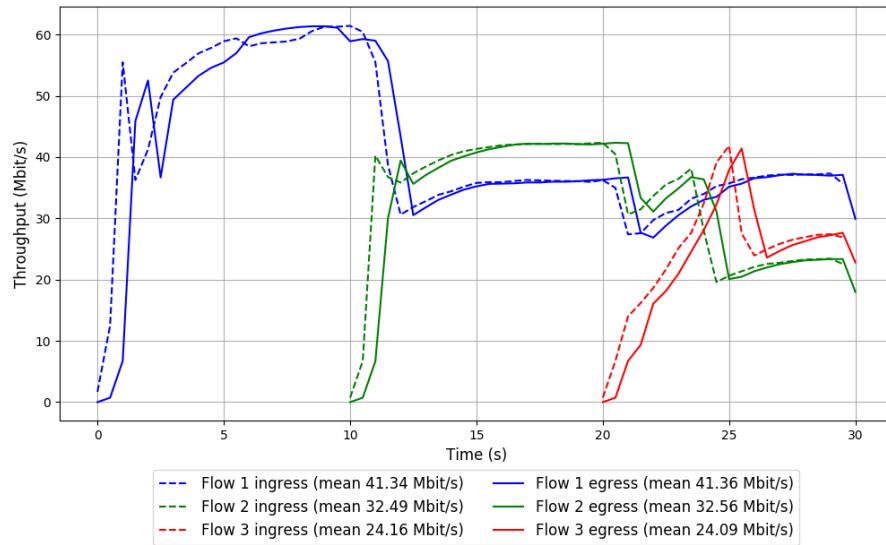


Run 10: Statistics of TCP Cubic

```
Start at: 2018-06-19 12:20:46
End at: 2018-06-19 12:21:16
Local clock offset: -2.801 ms
Remote clock offset: 2.399 ms

# Below is generated by plot.py at 2018-06-19 12:28:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.90 Mbit/s
95th percentile per-packet one-way delay: 94.752 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 94.524 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 32.56 Mbit/s
95th percentile per-packet one-way delay: 102.964 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 95.657 ms
Loss rate: 1.90%
```

Run 10: Report of TCP Cubic — Data Link

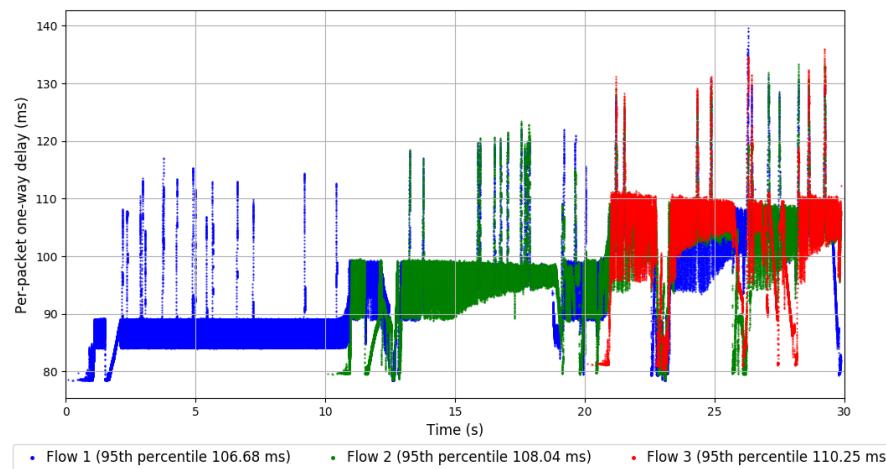
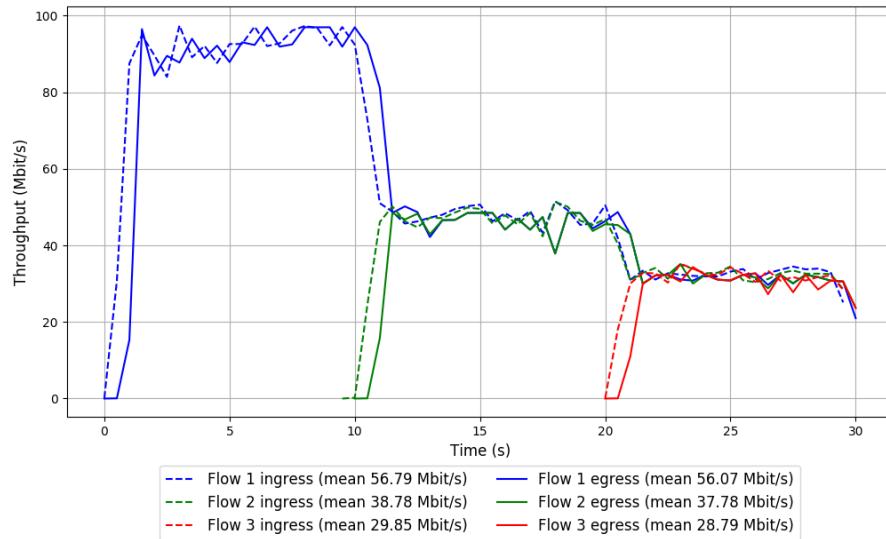


```
Run 1: Statistics of FillP

Start at: 2018-06-19 09:18:49
End at: 2018-06-19 09:19:19
Local clock offset: -3.348 ms
Remote clock offset: 9.0 ms

# Below is generated by plot.py at 2018-06-19 12:29:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 108.217 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 56.07 Mbit/s
95th percentile per-packet one-way delay: 106.684 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 108.043 ms
Loss rate: 3.48%
-- Flow 3:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 110.247 ms
Loss rate: 5.28%
```

Run 1: Report of FillP — Data Link

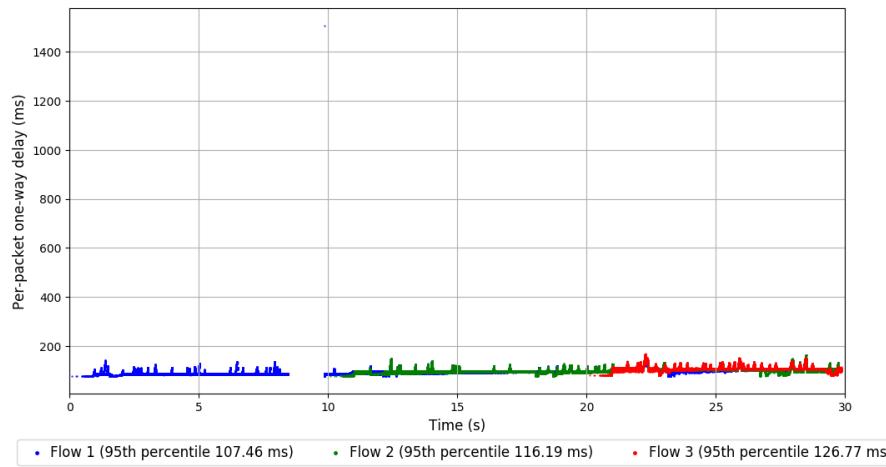
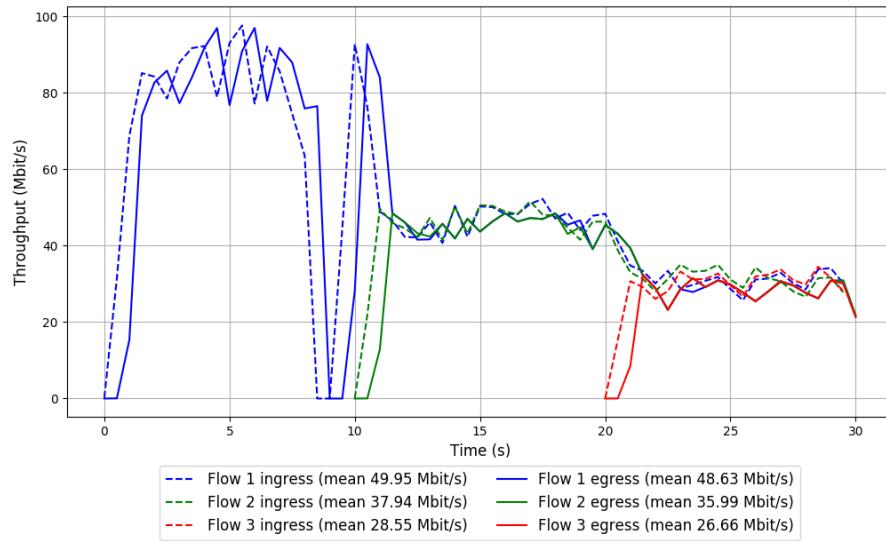


Run 2: Statistics of FillP

```
Start at: 2018-06-19 09:38:36
End at: 2018-06-19 09:39:06
Local clock offset: -2.83 ms
Remote clock offset: 9.352 ms

# Below is generated by plot.py at 2018-06-19 12:29:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.25 Mbit/s
95th percentile per-packet one-way delay: 114.157 ms
Loss rate: 4.58%
-- Flow 1:
Average throughput: 48.63 Mbit/s
95th percentile per-packet one-way delay: 107.461 ms
Loss rate: 3.21%
-- Flow 2:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 116.192 ms
Loss rate: 5.91%
-- Flow 3:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 126.772 ms
Loss rate: 8.28%
```

Run 2: Report of FillP — Data Link

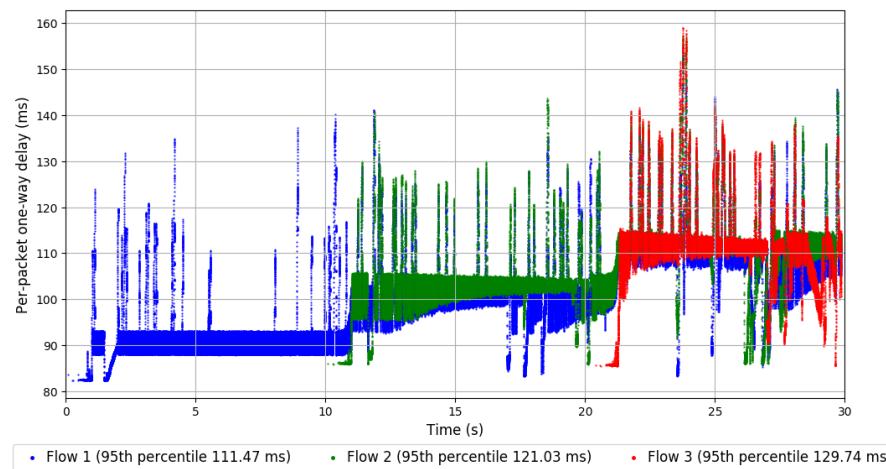
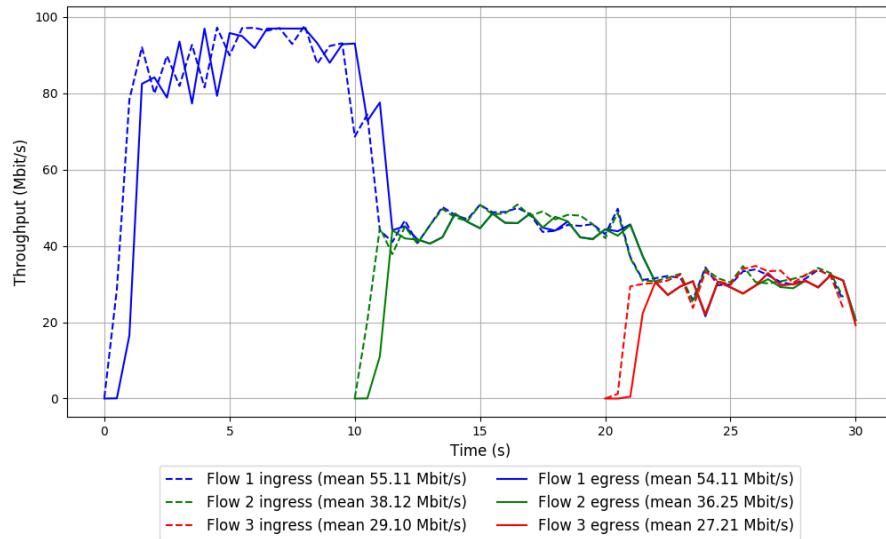


Run 3: Statistics of FillP

```
Start at: 2018-06-19 09:58:34
End at: 2018-06-19 09:59:04
Local clock offset: -1.691 ms
Remote clock offset: 4.094 ms

# Below is generated by plot.py at 2018-06-19 12:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.81 Mbit/s
95th percentile per-packet one-way delay: 117.199 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 54.11 Mbit/s
95th percentile per-packet one-way delay: 111.471 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 36.25 Mbit/s
95th percentile per-packet one-way delay: 121.026 ms
Loss rate: 5.74%
-- Flow 3:
Average throughput: 27.21 Mbit/s
95th percentile per-packet one-way delay: 129.742 ms
Loss rate: 8.11%
```

Run 3: Report of FillP — Data Link

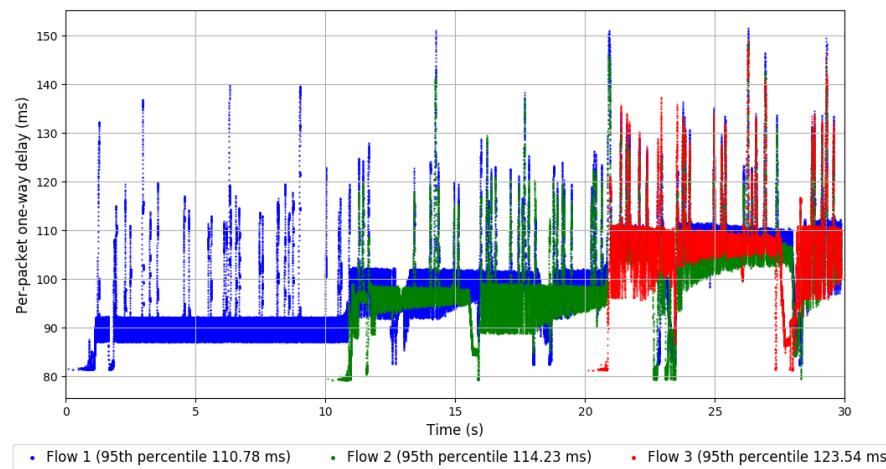
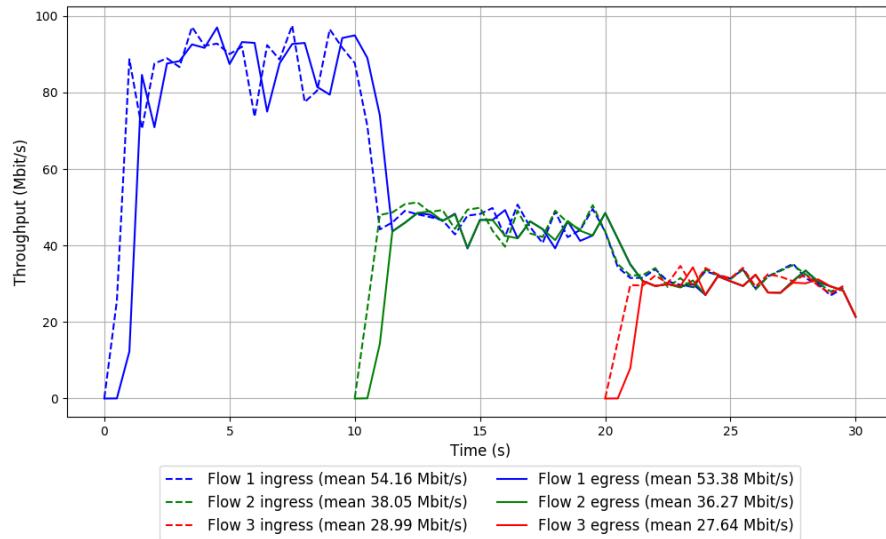


Run 4: Statistics of FillP

```
Start at: 2018-06-19 10:18:22
End at: 2018-06-19 10:18:52
Local clock offset: -1.798 ms
Remote clock offset: 7.523 ms

# Below is generated by plot.py at 2018-06-19 12:29:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.51 Mbit/s
95th percentile per-packet one-way delay: 113.198 ms
Loss rate: 3.47%
-- Flow 1:
Average throughput: 53.38 Mbit/s
95th percentile per-packet one-way delay: 110.779 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 36.27 Mbit/s
95th percentile per-packet one-way delay: 114.231 ms
Loss rate: 5.51%
-- Flow 3:
Average throughput: 27.64 Mbit/s
95th percentile per-packet one-way delay: 123.539 ms
Loss rate: 6.36%
```

Run 4: Report of FillP — Data Link

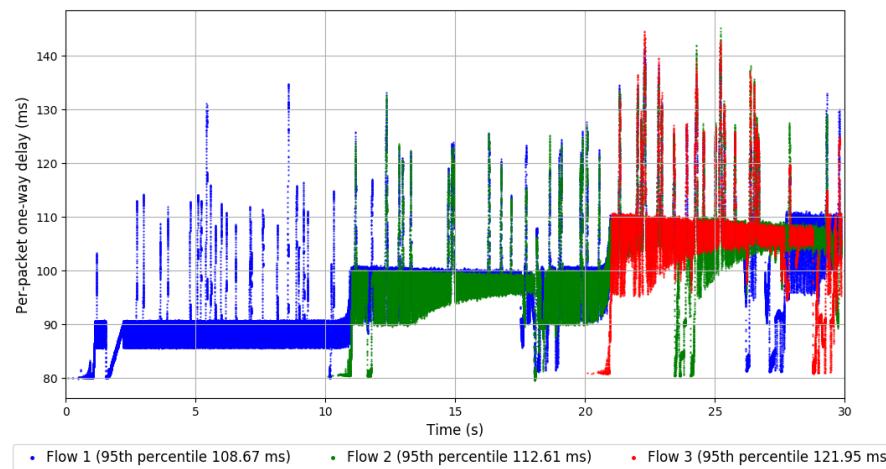
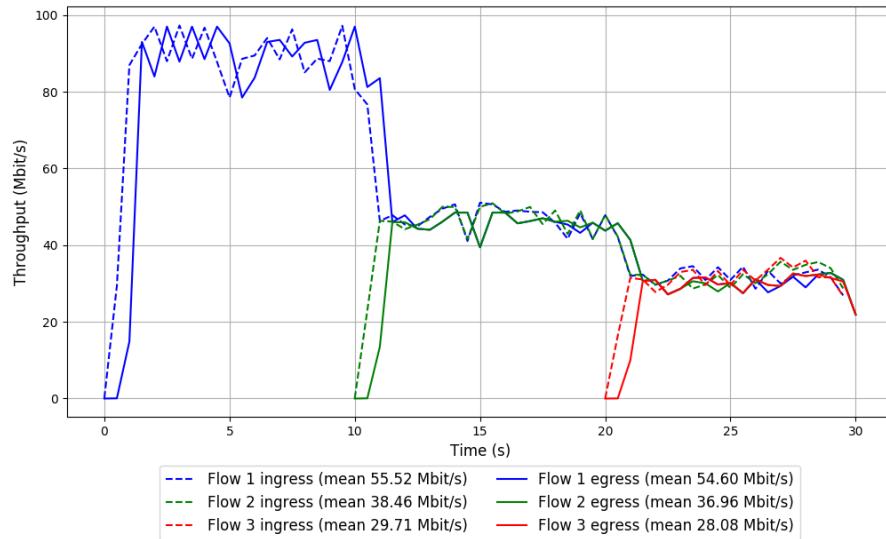


Run 5: Statistics of FillP

```
Start at: 2018-06-19 10:38:15
End at: 2018-06-19 10:38:45
Local clock offset: -1.735 ms
Remote clock offset: 9.508 ms

# Below is generated by plot.py at 2018-06-19 12:29:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.34 Mbit/s
95th percentile per-packet one-way delay: 109.926 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 54.60 Mbit/s
95th percentile per-packet one-way delay: 108.666 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 36.96 Mbit/s
95th percentile per-packet one-way delay: 112.614 ms
Loss rate: 4.64%
-- Flow 3:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 121.950 ms
Loss rate: 7.05%
```

Run 5: Report of FillP — Data Link

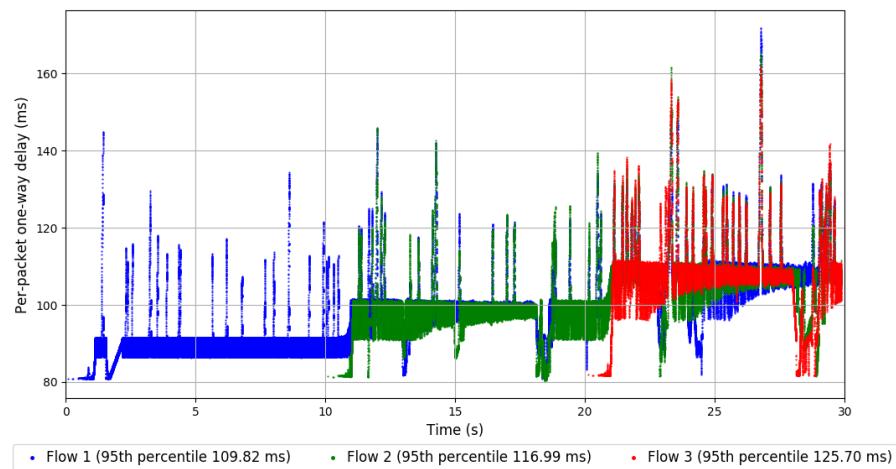
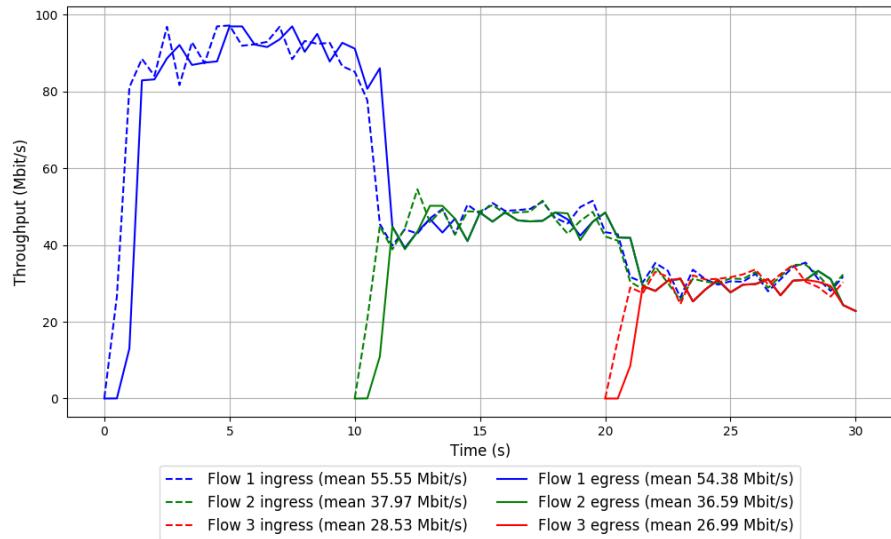


Run 6: Statistics of FillP

```
Start at: 2018-06-19 10:58:14
End at: 2018-06-19 10:58:44
Local clock offset: -1.477 ms
Remote clock offset: 13.802 ms

# Below is generated by plot.py at 2018-06-19 12:29:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.48 Mbit/s
95th percentile per-packet one-way delay: 113.901 ms
Loss rate: 3.61%
-- Flow 1:
Average throughput: 54.38 Mbit/s
95th percentile per-packet one-way delay: 109.817 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 116.991 ms
Loss rate: 4.42%
-- Flow 3:
Average throughput: 26.99 Mbit/s
95th percentile per-packet one-way delay: 125.696 ms
Loss rate: 7.09%
```

Run 6: Report of FillP — Data Link

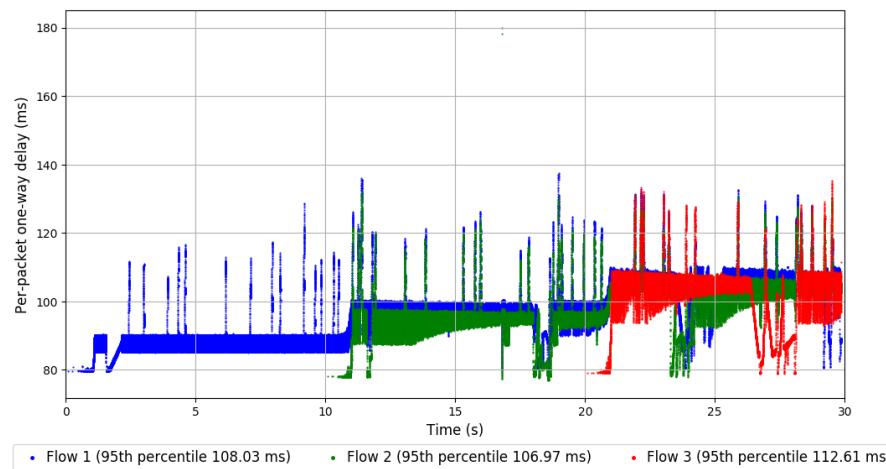
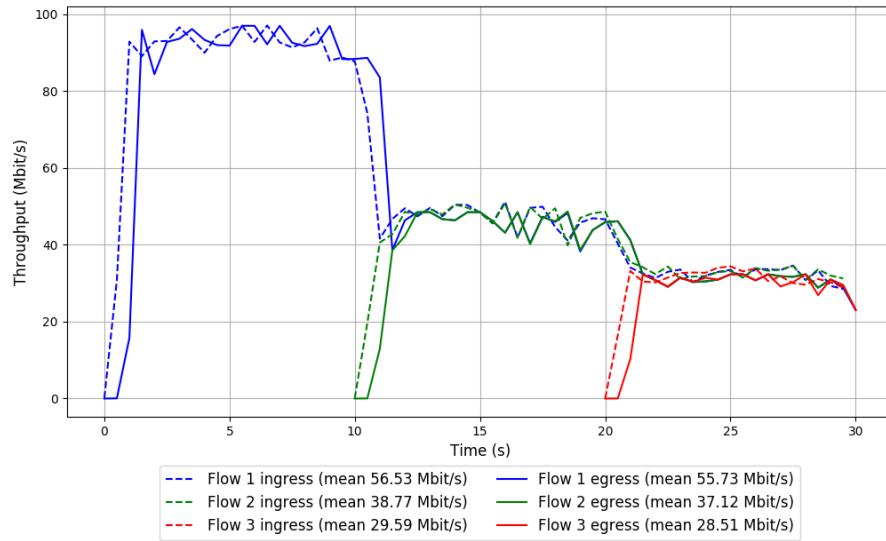


Run 7: Statistics of FillP

```
Start at: 2018-06-19 11:18:03
End at: 2018-06-19 11:18:33
Local clock offset: -2.224 ms
Remote clock offset: 16.672 ms

# Below is generated by plot.py at 2018-06-19 12:29:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.71 Mbit/s
95th percentile per-packet one-way delay: 108.113 ms
Loss rate: 3.19%
-- Flow 1:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 108.025 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 106.970 ms
Loss rate: 5.09%
-- Flow 3:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 112.615 ms
Loss rate: 5.29%
```

Run 7: Report of FillP — Data Link

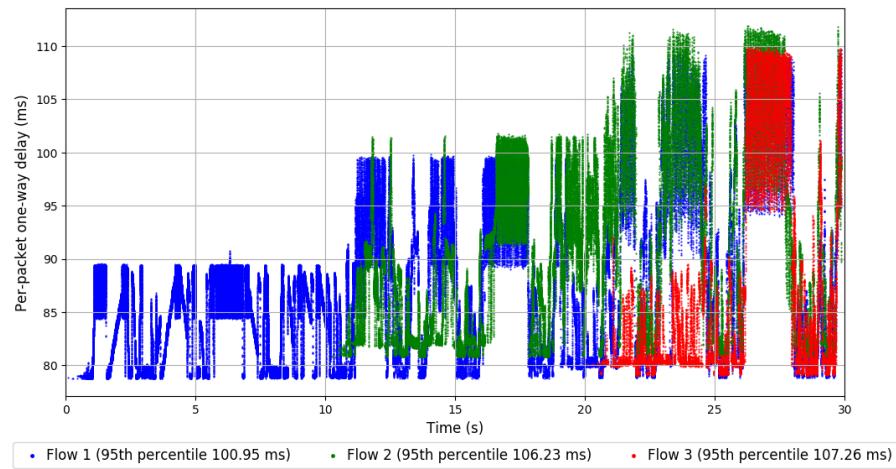
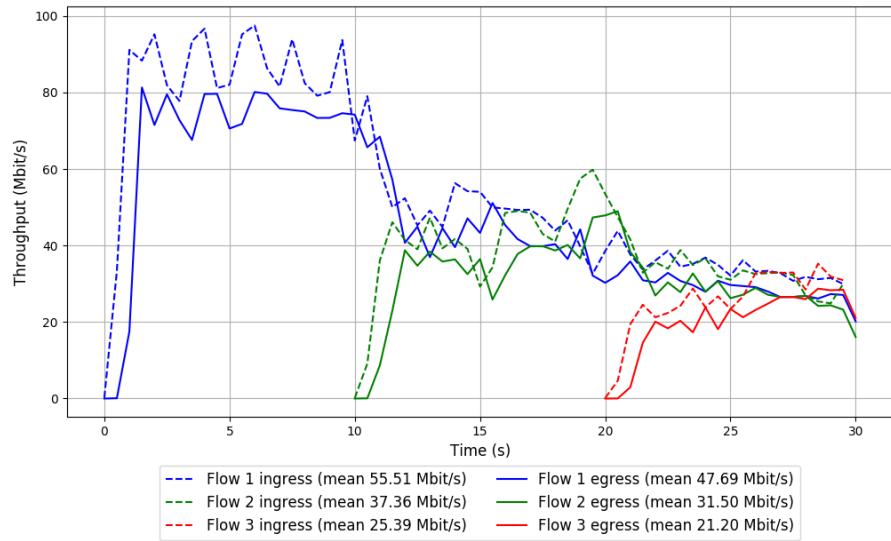


Run 8: Statistics of FillP

```
Start at: 2018-06-19 11:38:05
End at: 2018-06-19 11:38:35
Local clock offset: -2.664 ms
Remote clock offset: 17.125 ms

# Below is generated by plot.py at 2018-06-19 12:29:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.55 Mbit/s
95th percentile per-packet one-way delay: 104.156 ms
Loss rate: 15.37%
-- Flow 1:
Average throughput: 47.69 Mbit/s
95th percentile per-packet one-way delay: 100.954 ms
Loss rate: 14.55%
-- Flow 2:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 106.232 ms
Loss rate: 16.34%
-- Flow 3:
Average throughput: 21.20 Mbit/s
95th percentile per-packet one-way delay: 107.257 ms
Loss rate: 17.93%
```

Run 8: Report of FillP — Data Link

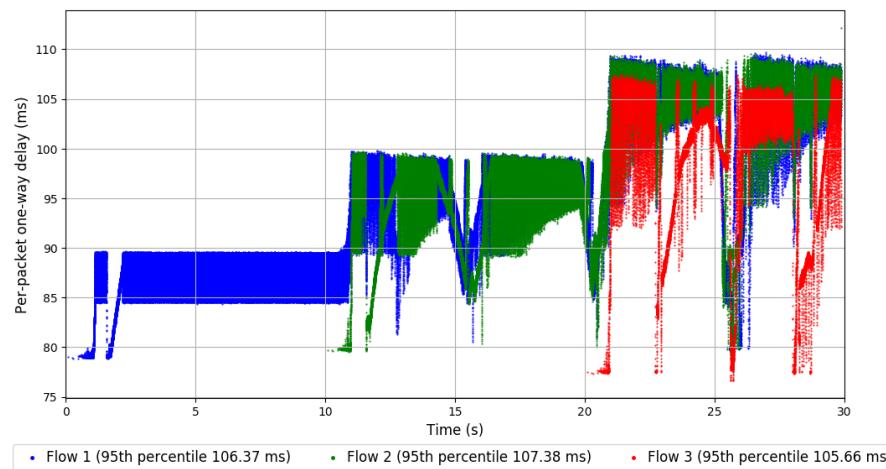
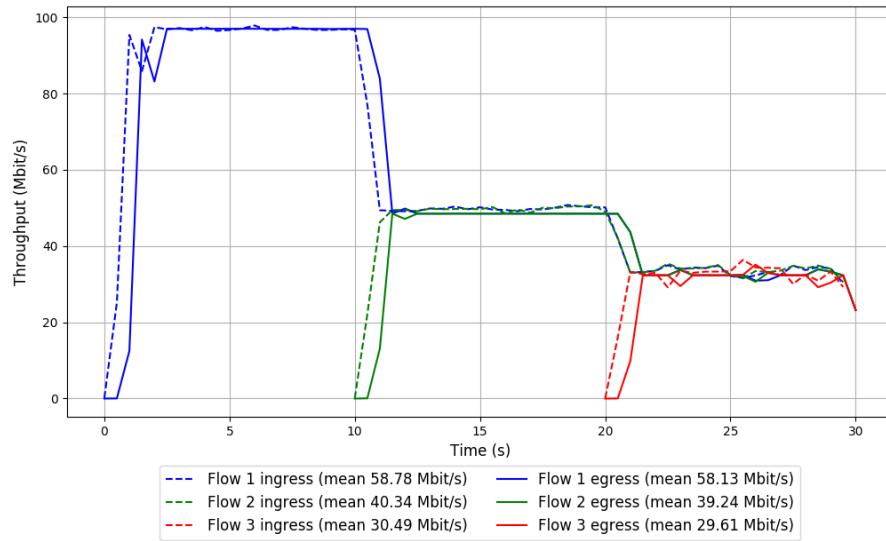


Run 9: Statistics of FillP

```
Start at: 2018-06-19 11:58:18
End at: 2018-06-19 11:58:48
Local clock offset: -3.129 ms
Remote clock offset: 11.91 ms

# Below is generated by plot.py at 2018-06-19 12:30:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 106.765 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 58.13 Mbit/s
95th percentile per-packet one-way delay: 106.371 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 39.24 Mbit/s
95th percentile per-packet one-way delay: 107.380 ms
Loss rate: 3.59%
-- Flow 3:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 105.664 ms
Loss rate: 4.57%
```

Run 9: Report of FillP — Data Link

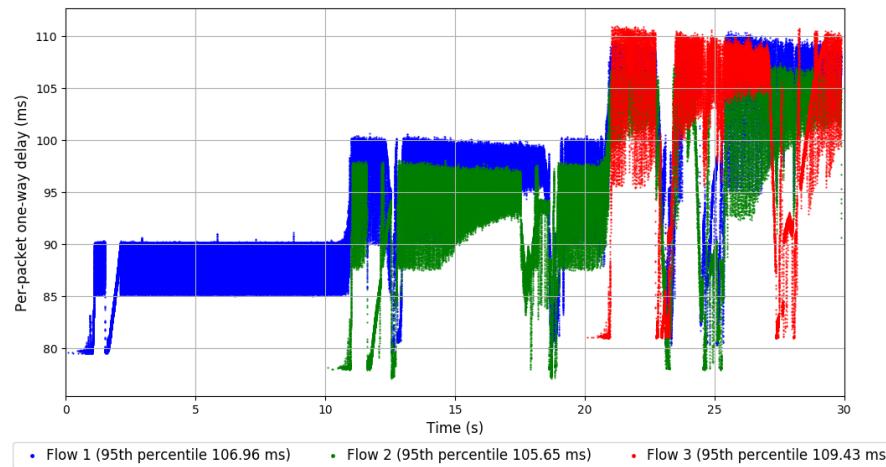
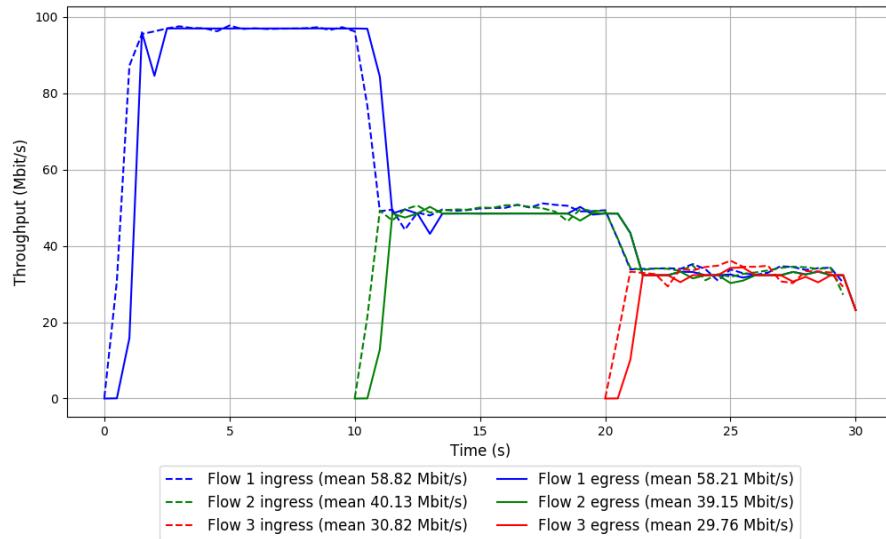


Run 10: Statistics of FillP

```
Start at: 2018-06-19 12:18:12
End at: 2018-06-19 12:18:42
Local clock offset: -2.808 ms
Remote clock offset: 7.31 ms

# Below is generated by plot.py at 2018-06-19 12:30:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 107.536 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 58.21 Mbit/s
95th percentile per-packet one-way delay: 106.963 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 105.647 ms
Loss rate: 3.21%
-- Flow 3:
Average throughput: 29.76 Mbit/s
95th percentile per-packet one-way delay: 109.430 ms
Loss rate: 4.98%
```

Run 10: Report of FillP — Data Link

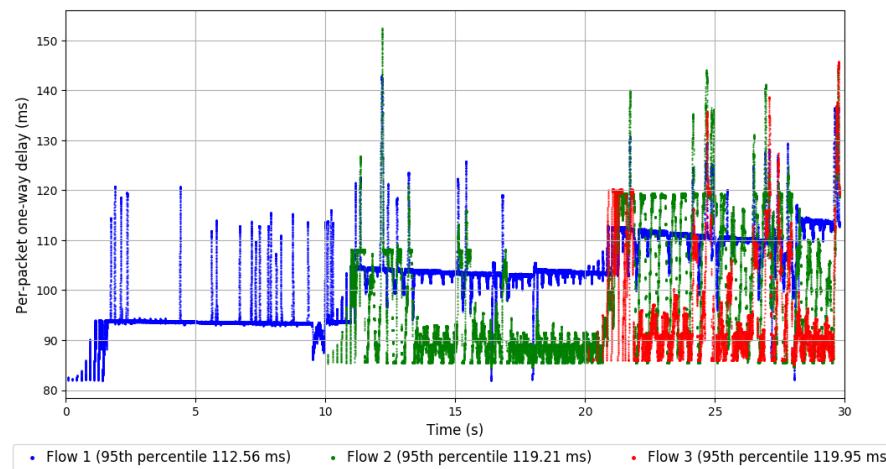
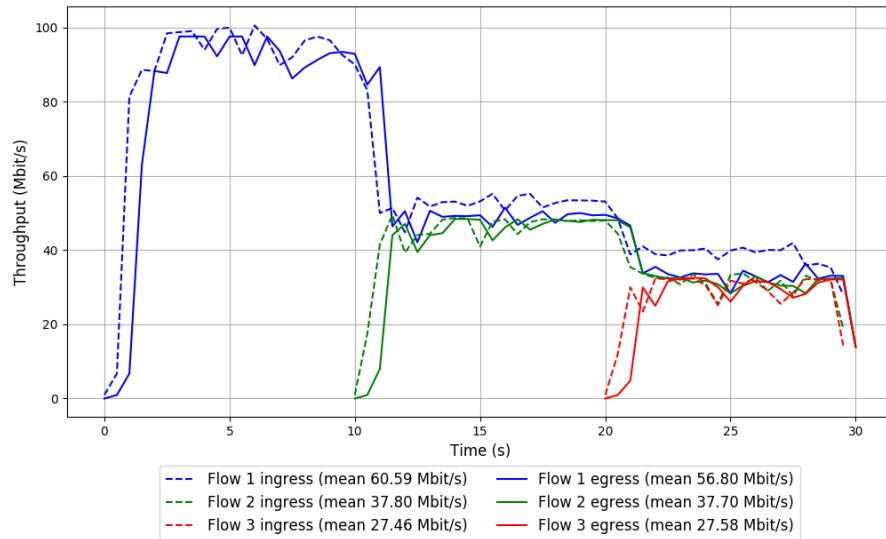


Run 1: Statistics of Indigo

```
Start at: 2018-06-19 09:15:03
End at: 2018-06-19 09:15:33
Local clock offset: -3.311 ms
Remote clock offset: 5.178 ms

# Below is generated by plot.py at 2018-06-19 12:30:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 117.321 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 56.80 Mbit/s
95th percentile per-packet one-way delay: 112.557 ms
Loss rate: 6.77%
-- Flow 2:
Average throughput: 37.70 Mbit/s
95th percentile per-packet one-way delay: 119.213 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 119.949 ms
Loss rate: 1.27%
```

Run 1: Report of Indigo — Data Link

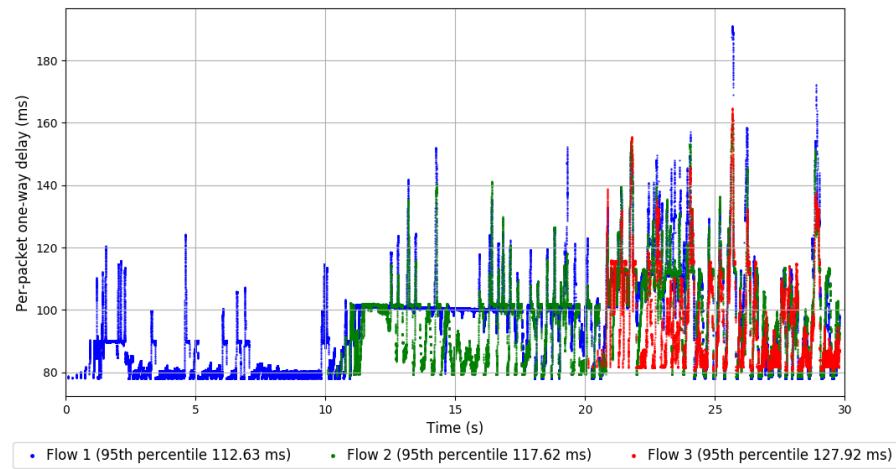
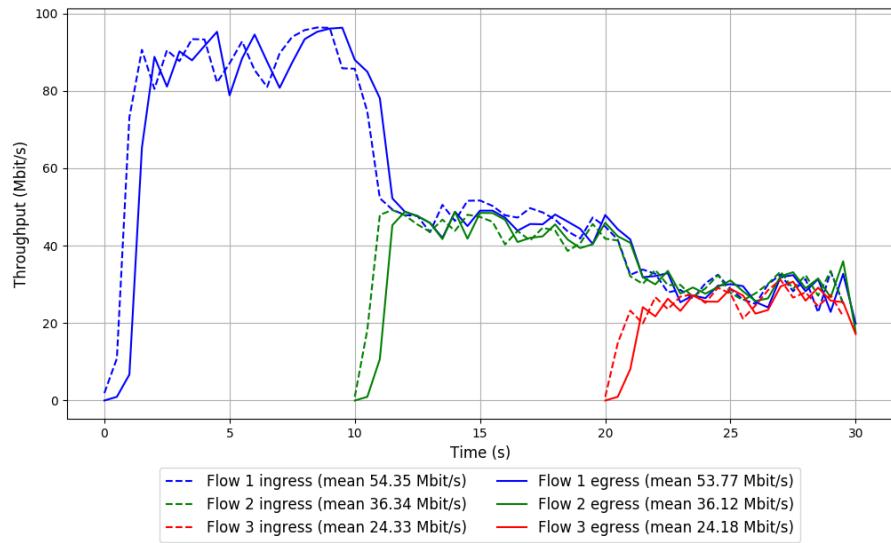


Run 2: Statistics of Indigo

```
Start at: 2018-06-19 09:34:52
End at: 2018-06-19 09:35:22
Local clock offset: -3.415 ms
Remote clock offset: 8.486 ms

# Below is generated by plot.py at 2018-06-19 12:30:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.59 Mbit/s
95th percentile per-packet one-way delay: 115.509 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 53.77 Mbit/s
95th percentile per-packet one-way delay: 112.627 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 36.12 Mbit/s
95th percentile per-packet one-way delay: 117.625 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 127.922 ms
Loss rate: 2.27%
```

Run 2: Report of Indigo — Data Link

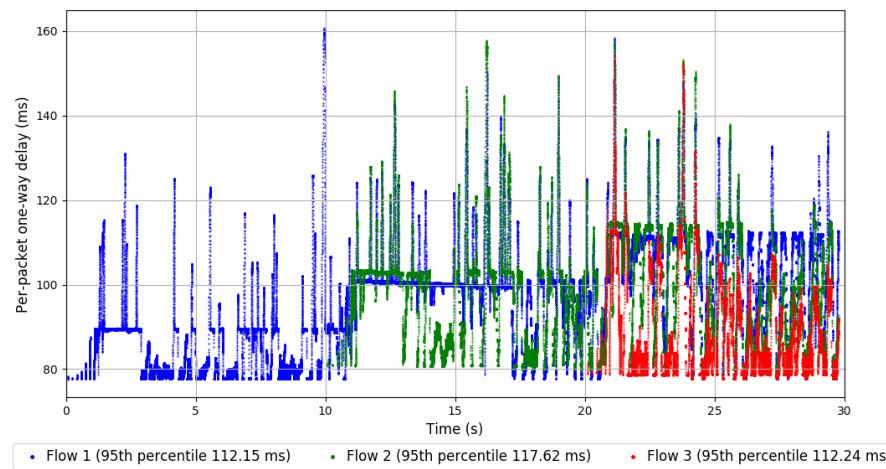
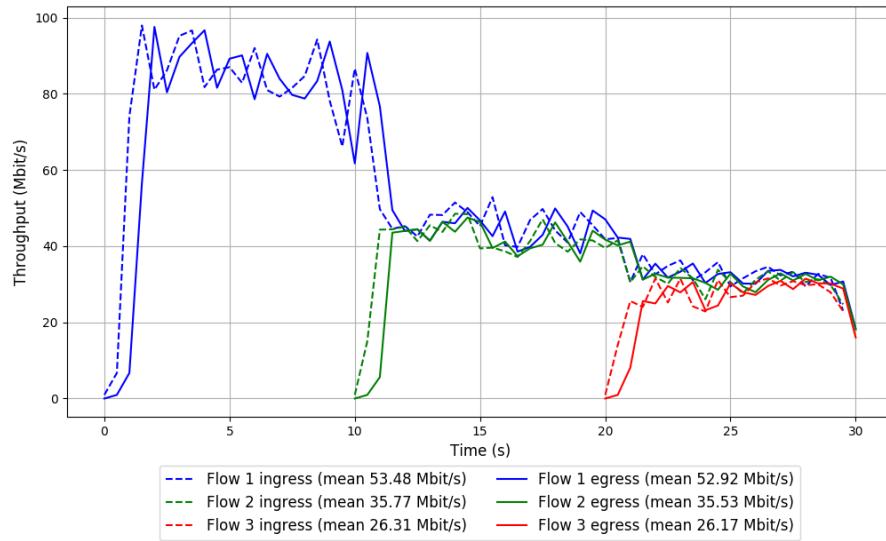


Run 3: Statistics of Indigo

```
Start at: 2018-06-19 09:54:48
End at: 2018-06-19 09:55:18
Local clock offset: -1.794 ms
Remote clock offset: 9.041 ms

# Below is generated by plot.py at 2018-06-19 12:30:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.98 Mbit/s
95th percentile per-packet one-way delay: 114.270 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 112.148 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: 117.618 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 26.17 Mbit/s
95th percentile per-packet one-way delay: 112.237 ms
Loss rate: 2.16%
```

Run 3: Report of Indigo — Data Link

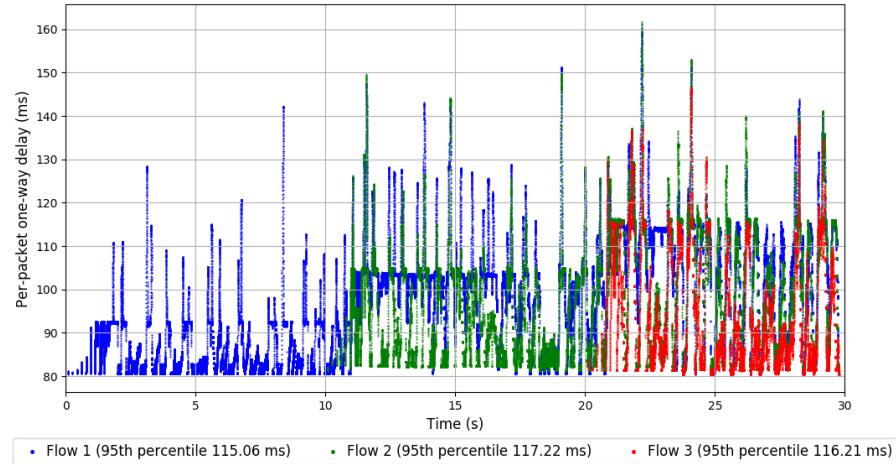
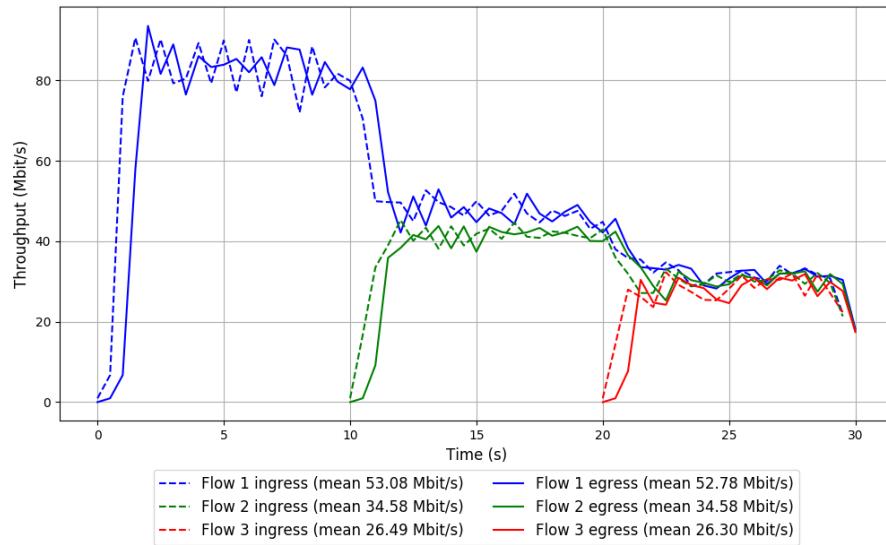


Run 4: Statistics of Indigo

```
Start at: 2018-06-19 10:14:37
End at: 2018-06-19 10:15:07
Local clock offset: -1.865 ms
Remote clock offset: 7.628 ms

# Below is generated by plot.py at 2018-06-19 12:30:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 115.935 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 52.78 Mbit/s
95th percentile per-packet one-way delay: 115.062 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 117.215 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 116.209 ms
Loss rate: 2.39%
```

Run 4: Report of Indigo — Data Link

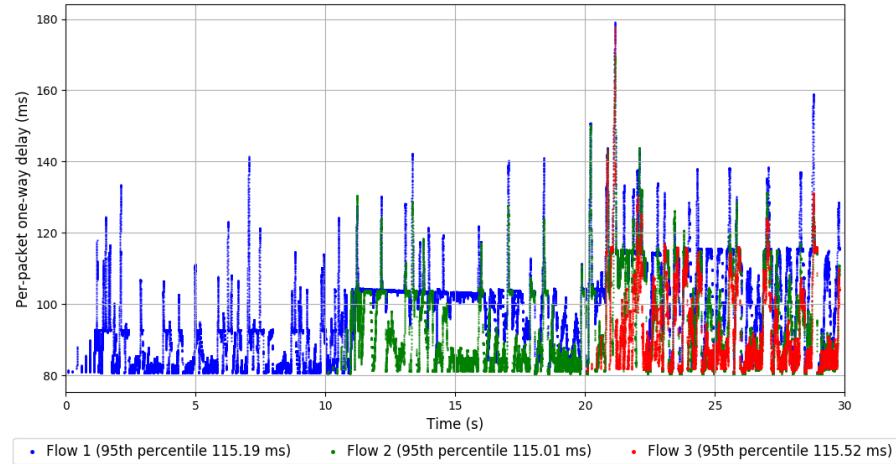
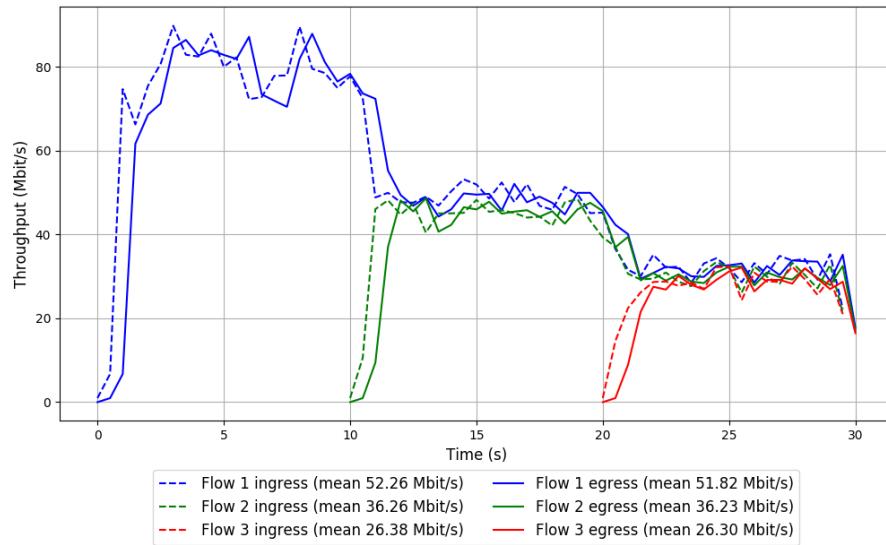


Run 5: Statistics of Indigo

```
Start at: 2018-06-19 10:34:30
End at: 2018-06-19 10:35:00
Local clock offset: -1.713 ms
Remote clock offset: 7.565 ms

# Below is generated by plot.py at 2018-06-19 12:30:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.41 Mbit/s
95th percentile per-packet one-way delay: 115.160 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 115.190 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 115.011 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 115.519 ms
Loss rate: 1.93%
```

Run 5: Report of Indigo — Data Link

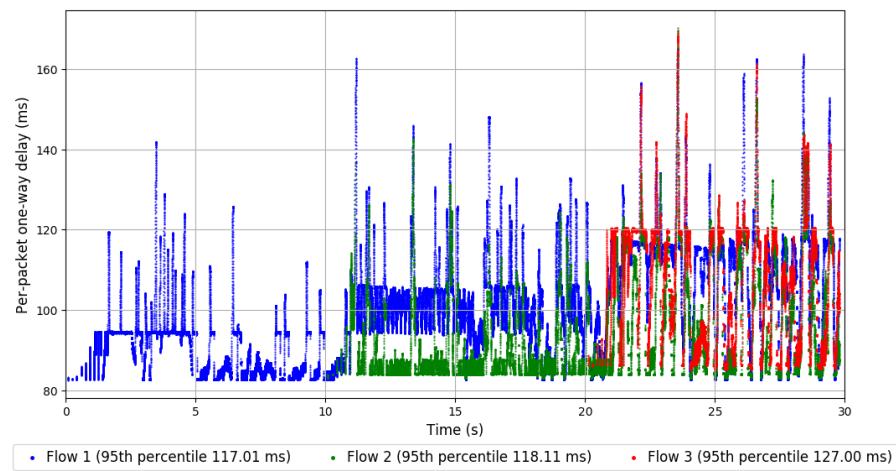
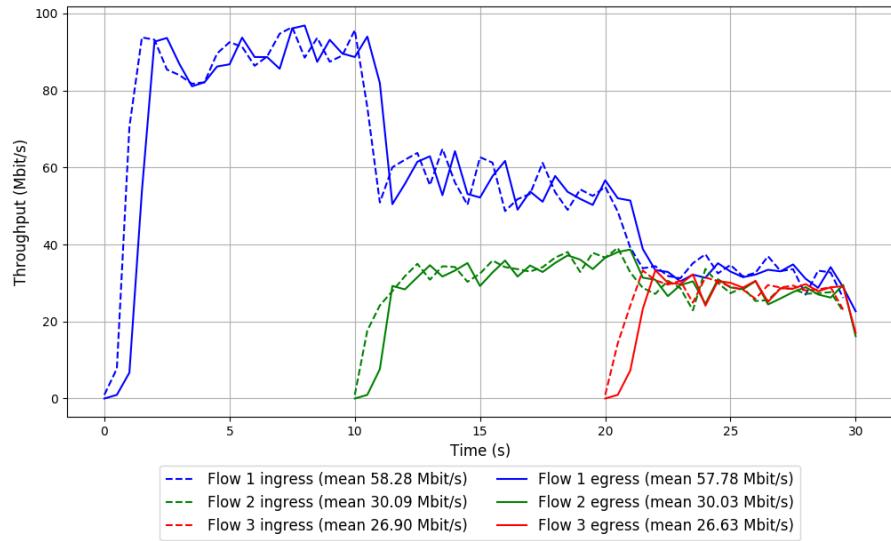


Run 6: Statistics of Indigo

```
Start at: 2018-06-19 10:54:29
End at: 2018-06-19 10:54:59
Local clock offset: -1.512 ms
Remote clock offset: 9.365 ms

# Below is generated by plot.py at 2018-06-19 12:30:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.35 Mbit/s
95th percentile per-packet one-way delay: 119.692 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 57.78 Mbit/s
95th percentile per-packet one-way delay: 117.011 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 118.112 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 26.63 Mbit/s
95th percentile per-packet one-way delay: 127.001 ms
Loss rate: 2.59%
```

Run 6: Report of Indigo — Data Link

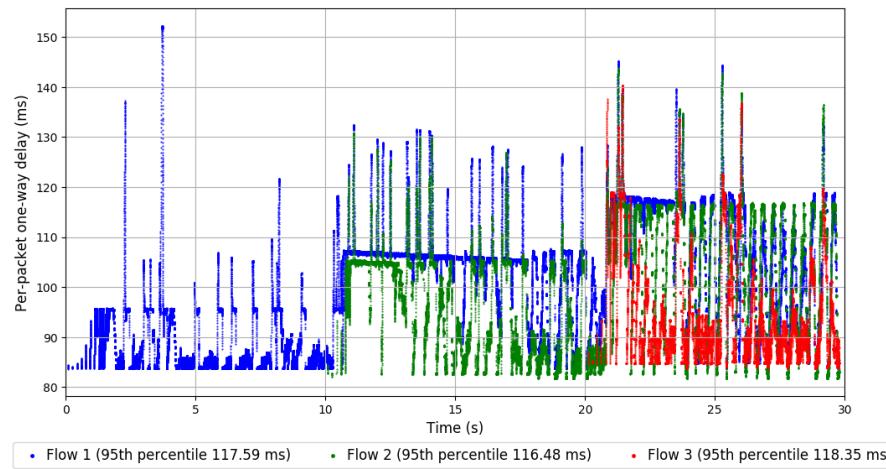
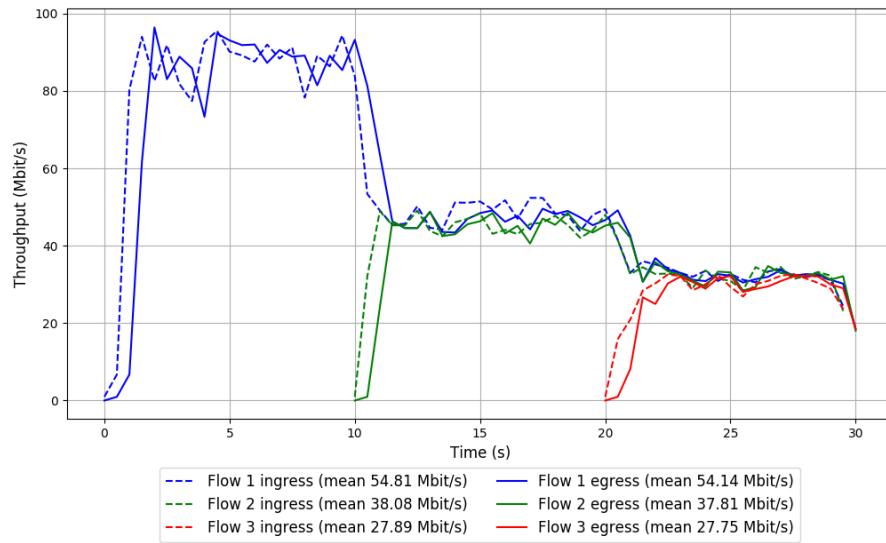


Run 7: Statistics of Indigo

```
Start at: 2018-06-19 11:14:17
End at: 2018-06-19 11:14:47
Local clock offset: -2.104 ms
Remote clock offset: 12.526 ms

# Below is generated by plot.py at 2018-06-19 12:31:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.24 Mbit/s
95th percentile per-packet one-way delay: 117.315 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 54.14 Mbit/s
95th percentile per-packet one-way delay: 117.594 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 116.483 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 27.75 Mbit/s
95th percentile per-packet one-way delay: 118.354 ms
Loss rate: 2.14%
```

Run 7: Report of Indigo — Data Link

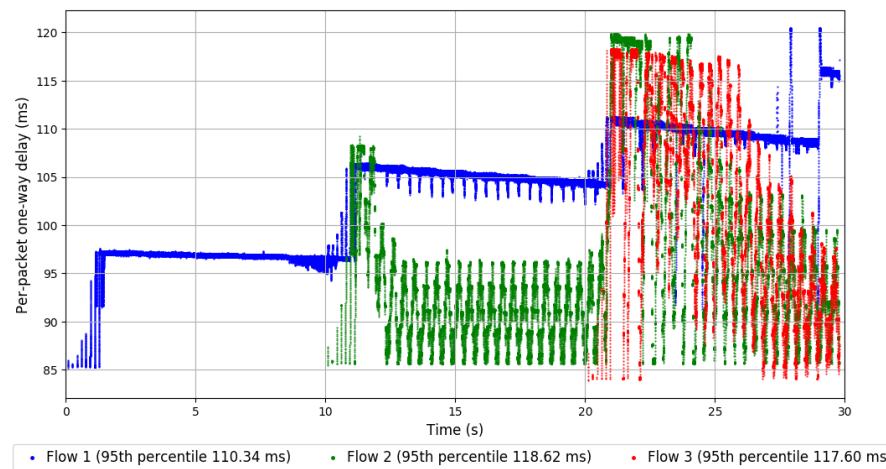
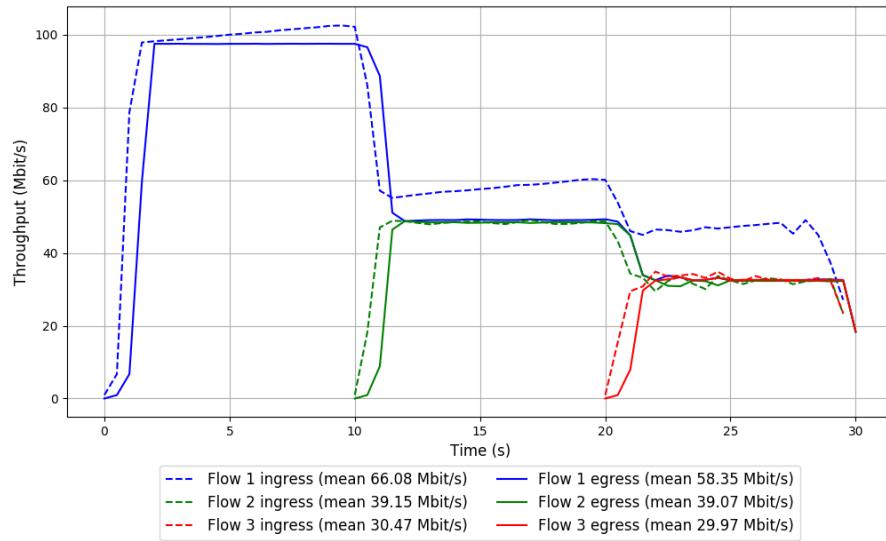


Run 8: Statistics of Indigo

```
Start at: 2018-06-19 11:34:17
End at: 2018-06-19 11:34:47
Local clock offset: -2.493 ms
Remote clock offset: 12.932 ms

# Below is generated by plot.py at 2018-06-19 12:31:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 113.667 ms
Loss rate: 8.46%
-- Flow 1:
Average throughput: 58.35 Mbit/s
95th percentile per-packet one-way delay: 110.343 ms
Loss rate: 12.18%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 118.622 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 29.97 Mbit/s
95th percentile per-packet one-way delay: 117.599 ms
Loss rate: 3.25%
```

Run 8: Report of Indigo — Data Link

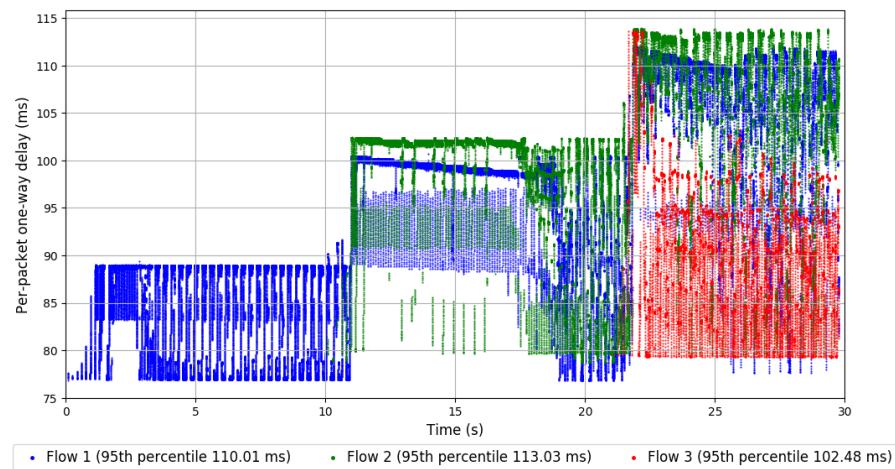
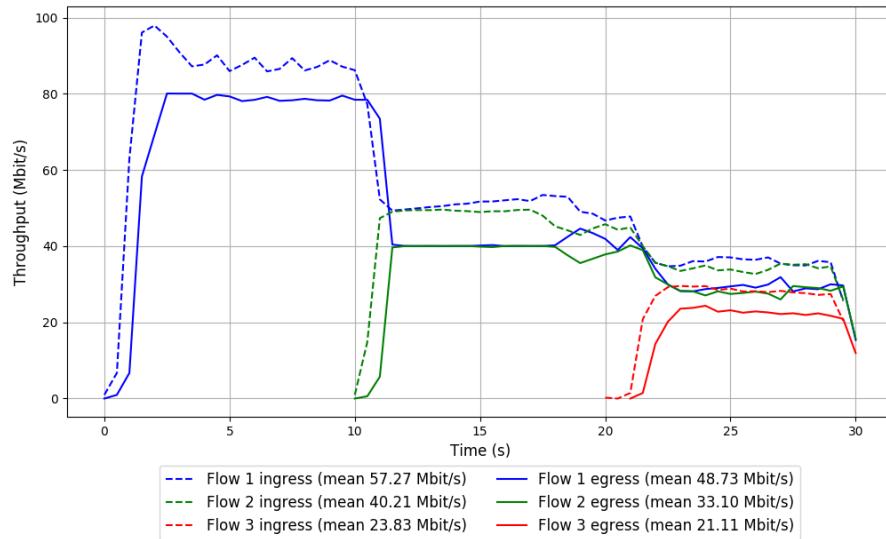


Run 9: Statistics of Indigo

```
Start at: 2018-06-19 11:54:22
End at: 2018-06-19 11:54:52
Local clock offset: -3.075 ms
Remote clock offset: 13.129 ms

# Below is generated by plot.py at 2018-06-19 12:31:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.81 Mbit/s
95th percentile per-packet one-way delay: 110.974 ms
Loss rate: 16.81%
-- Flow 1:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 110.006 ms
Loss rate: 15.38%
-- Flow 2:
Average throughput: 33.10 Mbit/s
95th percentile per-packet one-way delay: 113.035 ms
Loss rate: 18.37%
-- Flow 3:
Average throughput: 21.11 Mbit/s
95th percentile per-packet one-way delay: 102.478 ms
Loss rate: 21.93%
```

Run 9: Report of Indigo — Data Link

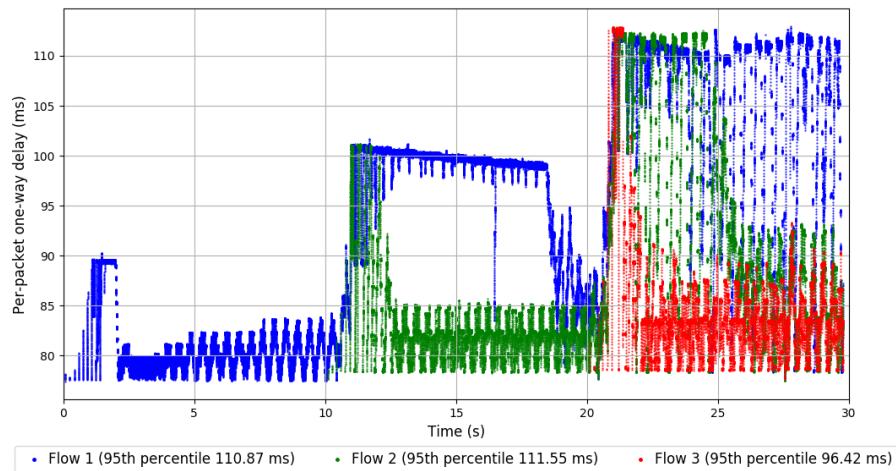
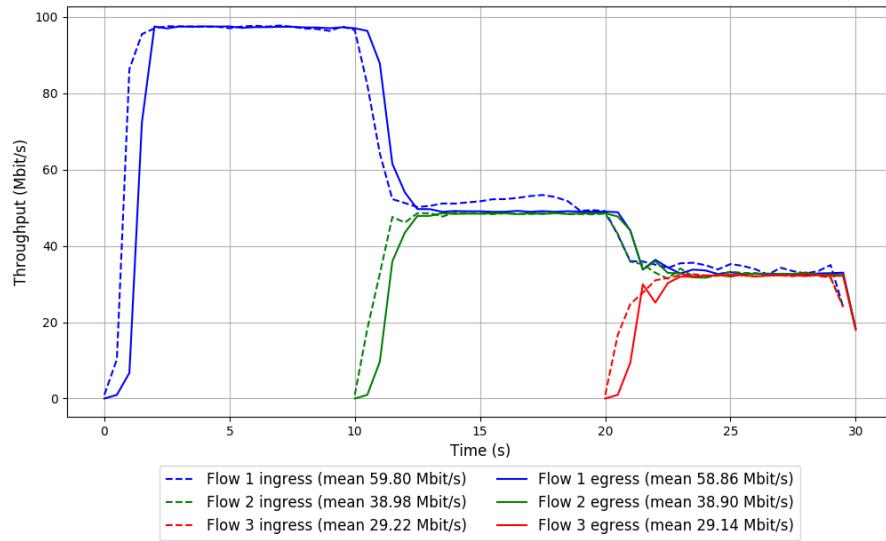


Run 10: Statistics of Indigo

```
Start at: 2018-06-19 12:14:25
End at: 2018-06-19 12:14:55
Local clock offset: -2.894 ms
Remote clock offset: 7.707 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 110.915 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 110.871 ms
Loss rate: 2.12%
-- Flow 2:
Average throughput: 38.90 Mbit/s
95th percentile per-packet one-way delay: 111.549 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 96.417 ms
Loss rate: 1.95%
```

Run 10: Report of Indigo — Data Link

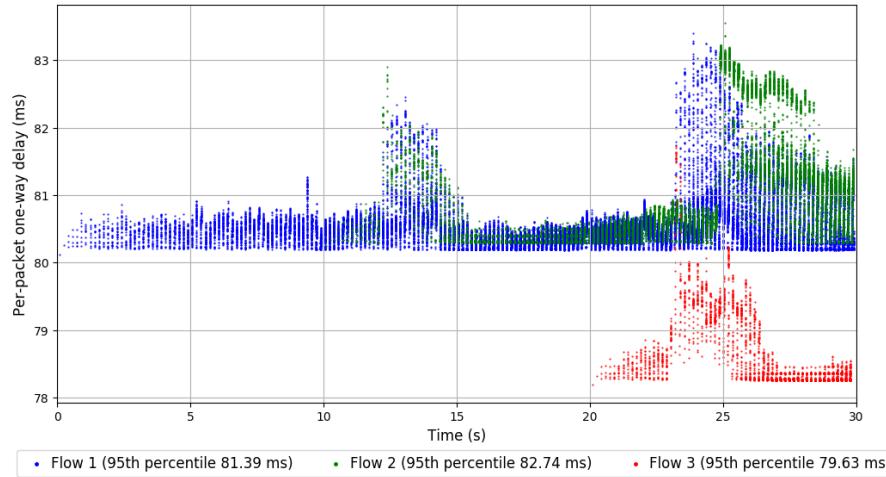
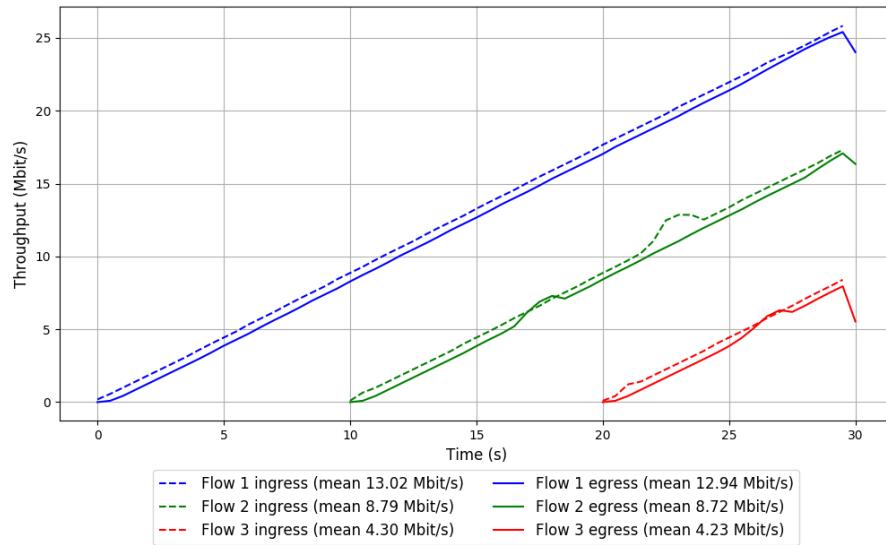


Run 1: Statistics of LEDBAT

```
Start at: 2018-06-19 09:02:48
End at: 2018-06-19 09:03:18
Local clock offset: -2.774 ms
Remote clock offset: 9.984 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 82.057 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 81.395 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.72 Mbit/s
95th percentile per-packet one-way delay: 82.738 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 79.634 ms
Loss rate: 3.38%
```

Run 1: Report of LEDBAT — Data Link

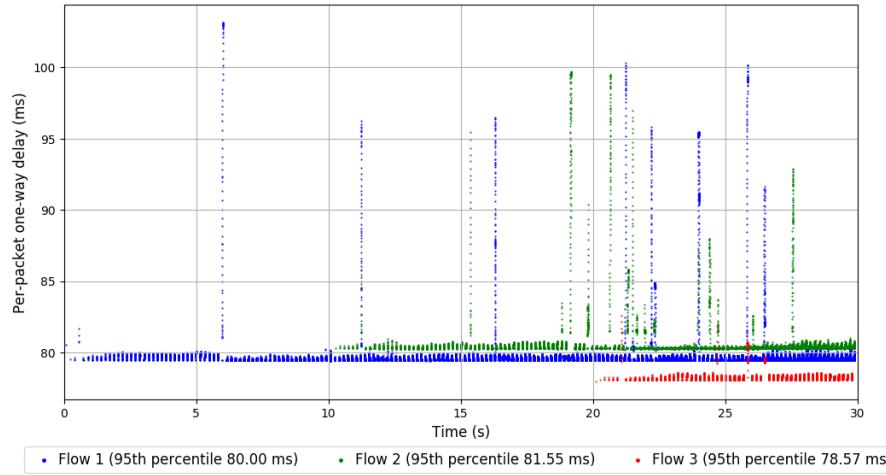
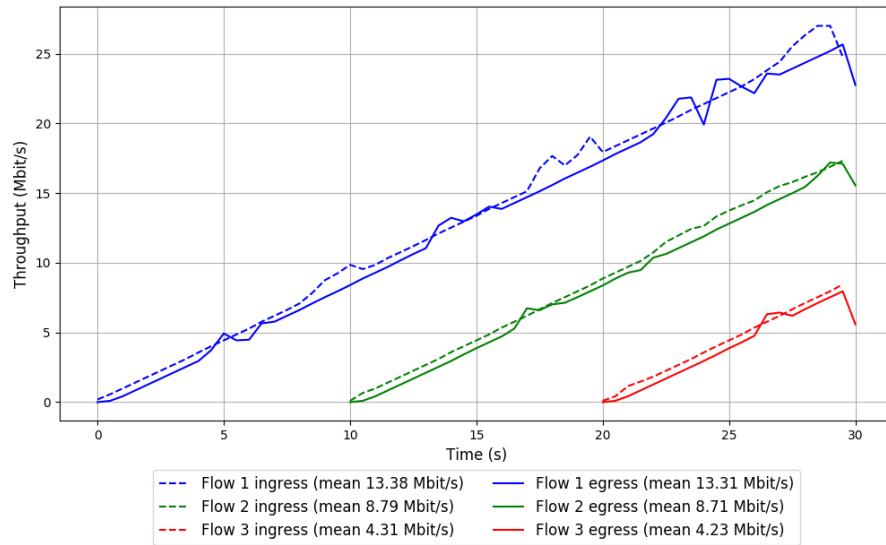


Run 2: Statistics of LEDBAT

```
Start at: 2018-06-19 09:22:35
End at: 2018-06-19 09:23:05
Local clock offset: -3.414 ms
Remote clock offset: 10.134 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 80.560 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 79.996 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 81.547 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 78.572 ms
Loss rate: 3.37%
```

Run 2: Report of LEDBAT — Data Link

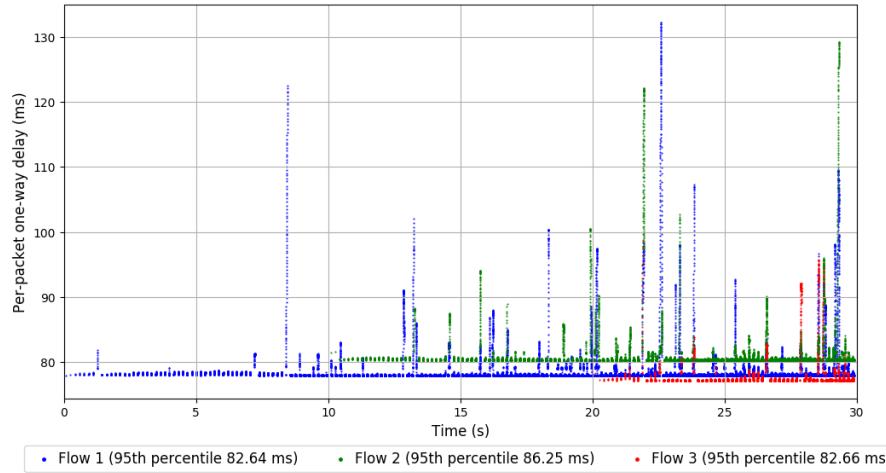
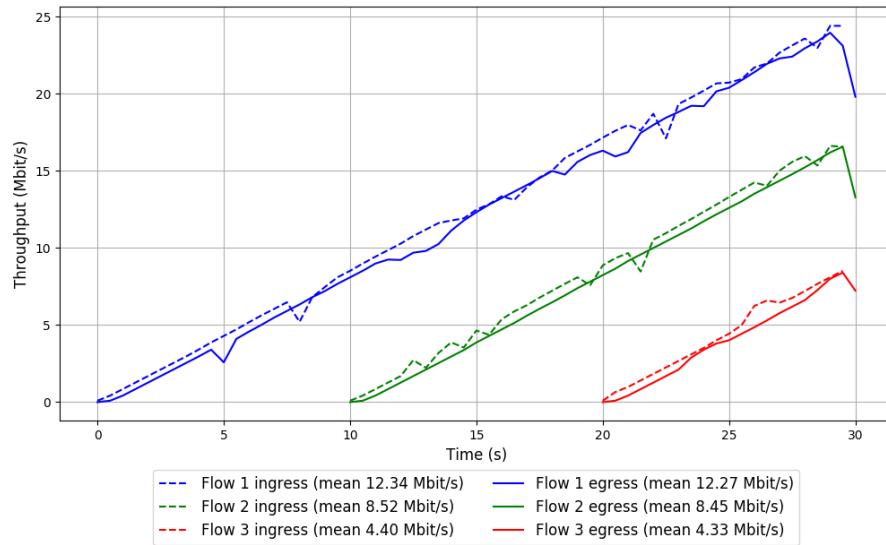


Run 3: Statistics of LEDBAT

```
Start at: 2018-06-19 09:42:23
End at: 2018-06-19 09:42:53
Local clock offset: -2.488 ms
Remote clock offset: 9.166 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.30 Mbit/s
95th percentile per-packet one-way delay: 84.195 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.27 Mbit/s
95th percentile per-packet one-way delay: 82.645 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 86.248 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 82.661 ms
Loss rate: 3.30%
```

Run 3: Report of LEDBAT — Data Link

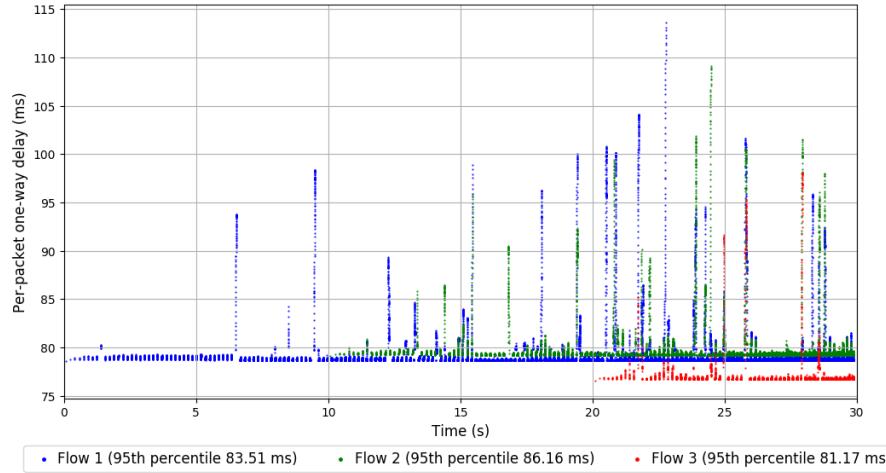
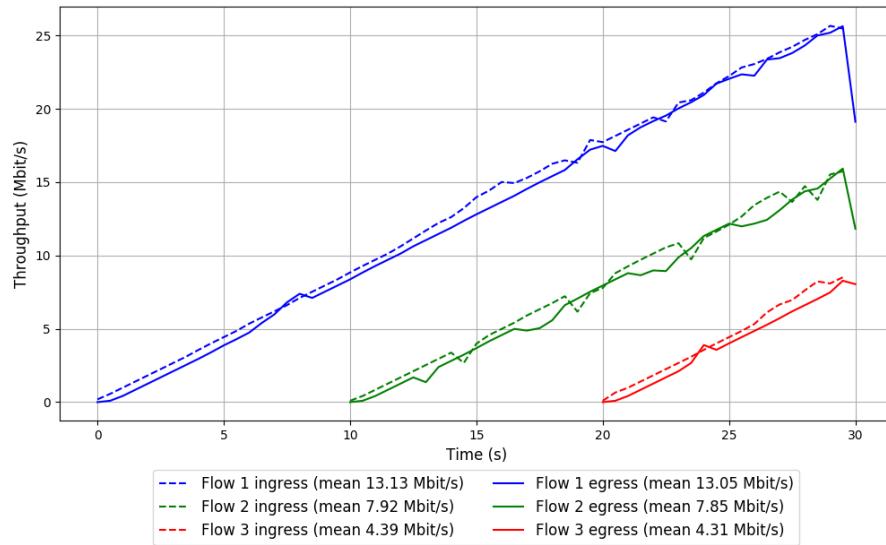


Run 4: Statistics of LEDBAT

```
Start at: 2018-06-19 10:02:21
End at: 2018-06-19 10:02:51
Local clock offset: -1.651 ms
Remote clock offset: 10.076 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.69 Mbit/s
95th percentile per-packet one-way delay: 84.414 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 83.512 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 86.156 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 81.172 ms
Loss rate: 3.30%
```

Run 4: Report of LEDBAT — Data Link

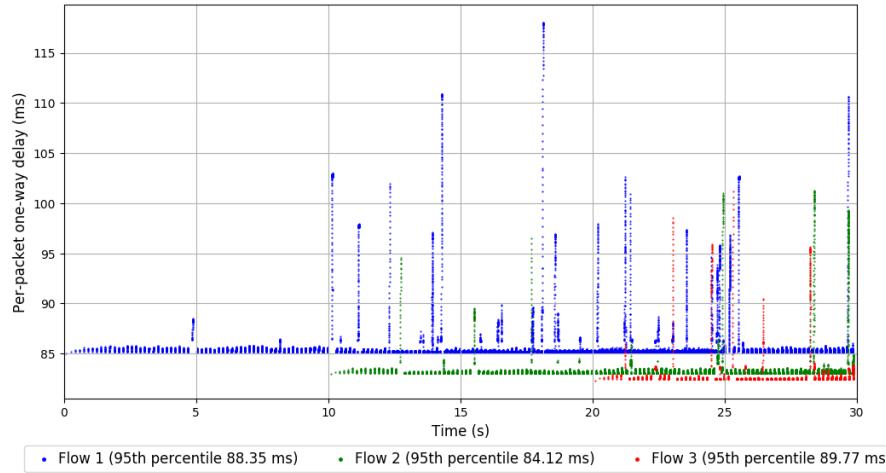
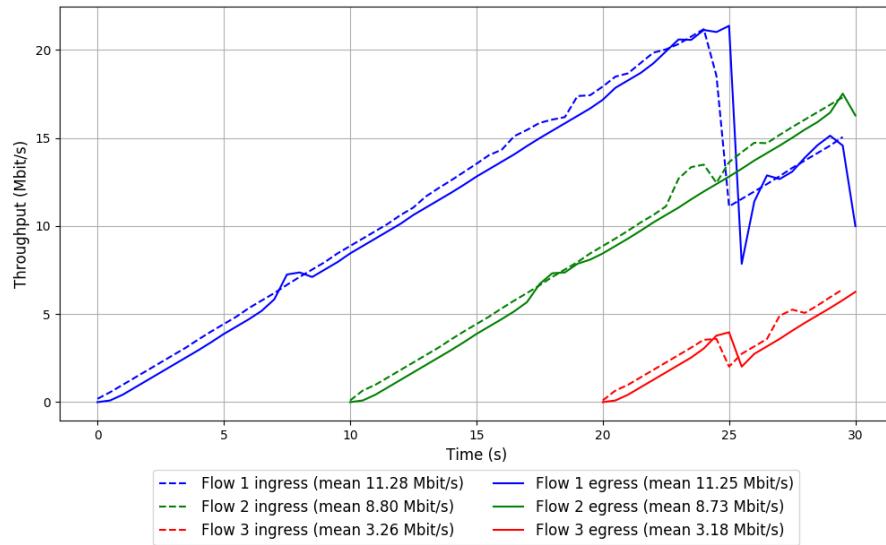


Run 5: Statistics of LEDBAT

```
Start at: 2018-06-19 10:22:08
End at: 2018-06-19 10:22:38
Local clock offset: -1.787 ms
Remote clock offset: 3.745 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.08 Mbit/s
95th percentile per-packet one-way delay: 87.170 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 11.25 Mbit/s
95th percentile per-packet one-way delay: 88.350 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 84.122 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 89.768 ms
Loss rate: 3.95%
```

Run 5: Report of LEDBAT — Data Link

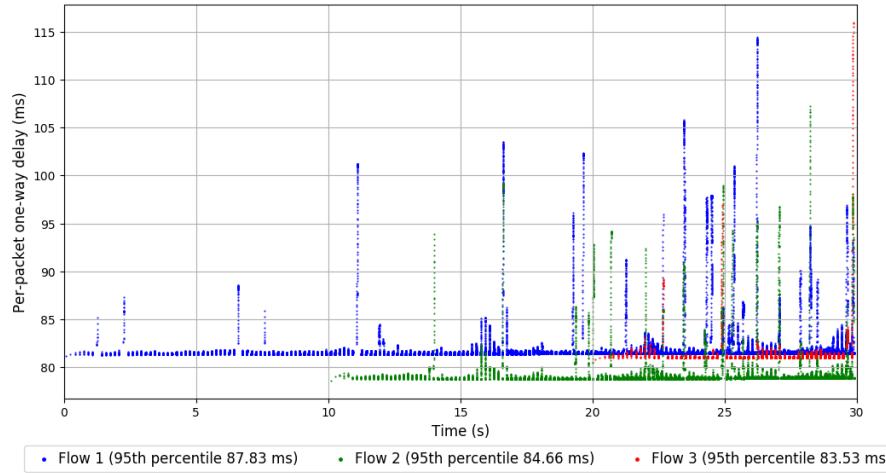
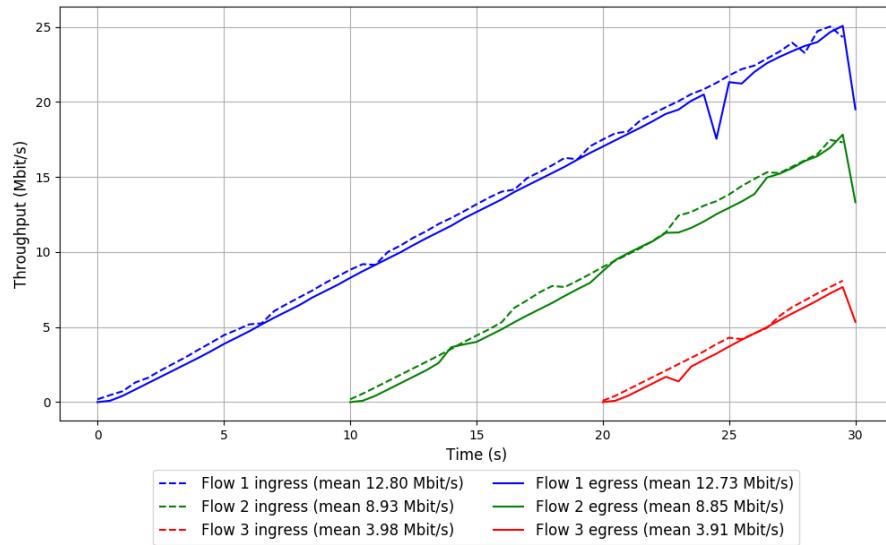


Run 6: Statistics of LEDBAT

```
Start at: 2018-06-19 10:42:02
End at: 2018-06-19 10:42:32
Local clock offset: -1.722 ms
Remote clock offset: 10.321 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.89 Mbit/s
95th percentile per-packet one-way delay: 86.507 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 87.827 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 84.661 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 83.532 ms
Loss rate: 3.47%
```

Run 6: Report of LEDBAT — Data Link

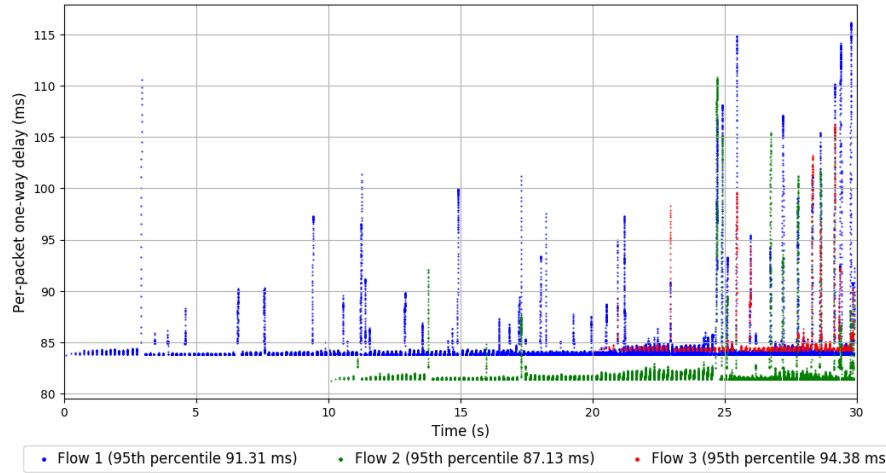
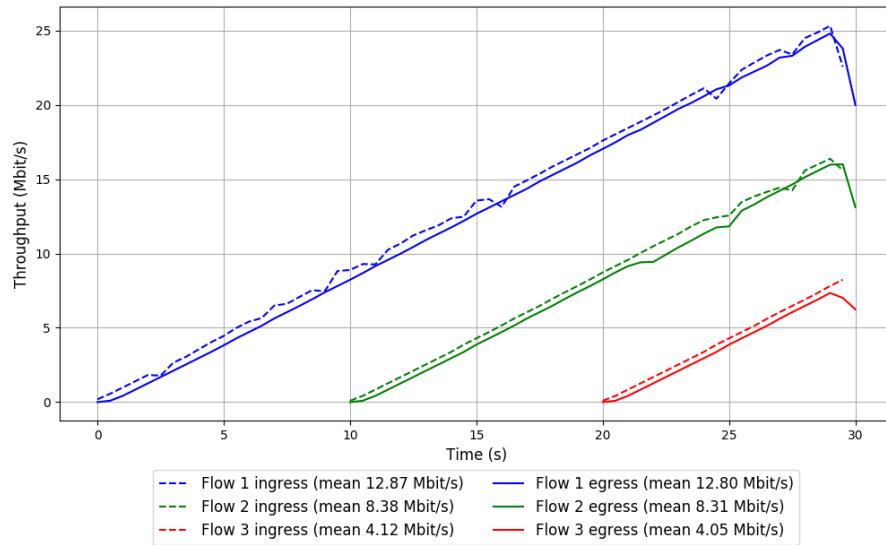


Run 7: Statistics of LEDBAT

```
Start at: 2018-06-19 11:02:01
End at: 2018-06-19 11:02:31
Local clock offset: -1.517 ms
Remote clock offset: 11.246 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 90.773 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 91.310 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 87.132 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 94.375 ms
Loss rate: 3.42%
```

Run 7: Report of LEDBAT — Data Link

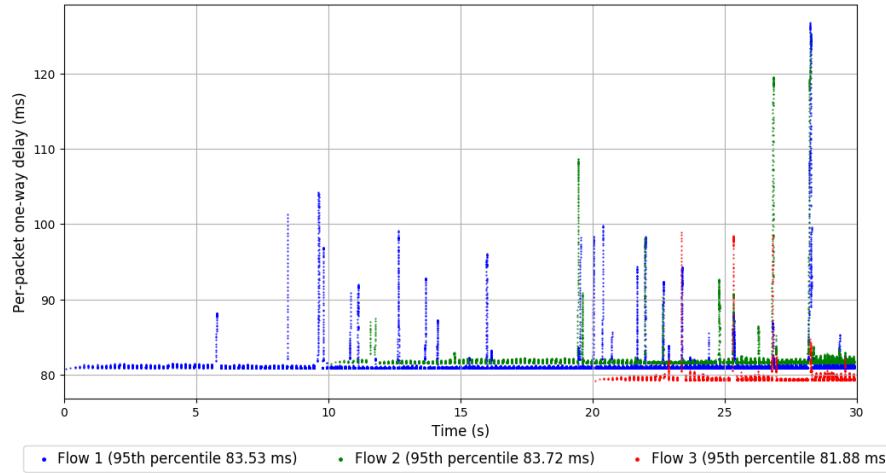
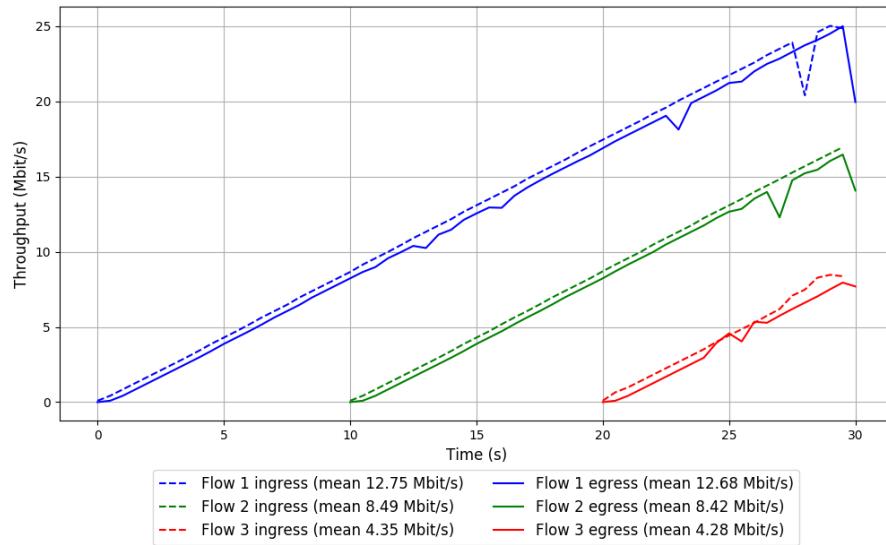


Run 8: Statistics of LEDBAT

```
Start at: 2018-06-19 11:21:48
End at: 2018-06-19 11:22:18
Local clock offset: -2.345 ms
Remote clock offset: 15.737 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 83.460 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 83.525 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.42 Mbit/s
95th percentile per-packet one-way delay: 83.718 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 81.878 ms
Loss rate: 3.33%
```

Run 8: Report of LEDBAT — Data Link

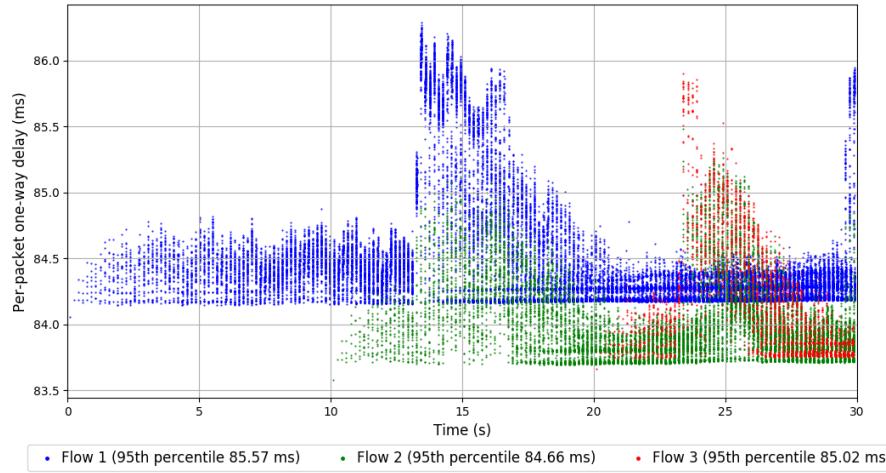
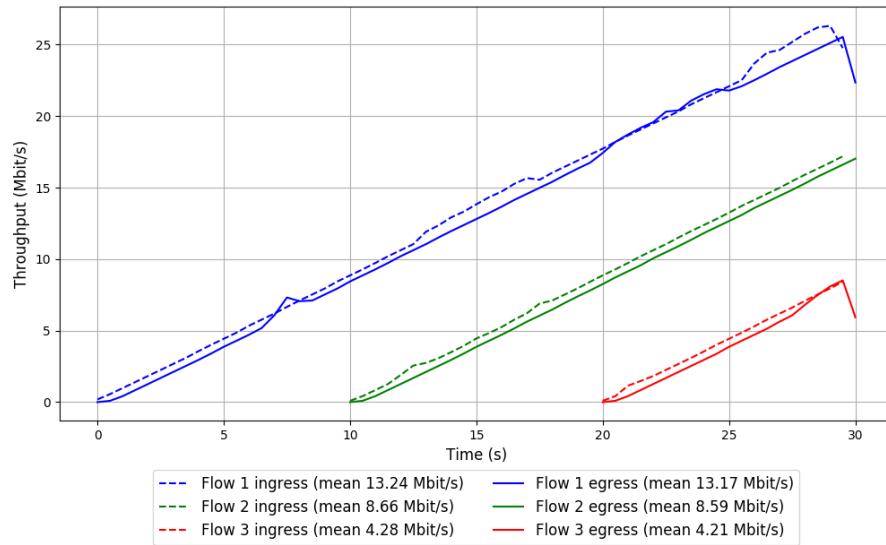


Run 9: Statistics of LEDBAT

```
Start at: 2018-06-19 11:42:03
End at: 2018-06-19 11:42:33
Local clock offset: -2.823 ms
Remote clock offset: 14.583 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 85.132 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 85.574 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 84.657 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 85.019 ms
Loss rate: 3.38%
```

Run 9: Report of LEDBAT — Data Link

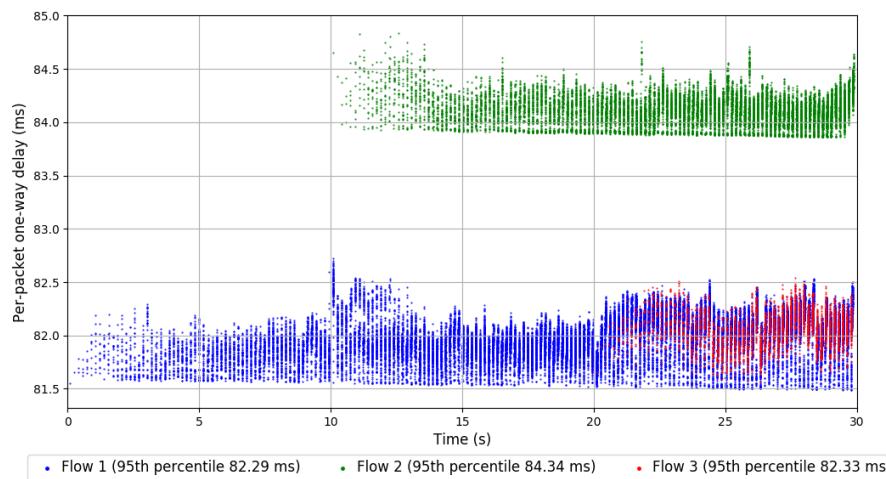
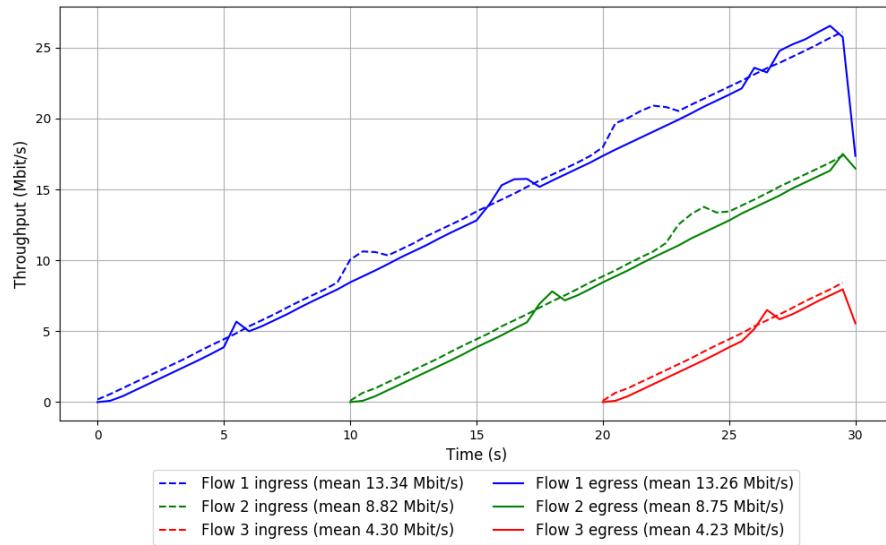


Run 10: Statistics of LEDBAT

```
Start at: 2018-06-19 12:02:06
End at: 2018-06-19 12:02:36
Local clock offset: -3.206 ms
Remote clock offset: 5.709 ms

# Below is generated by plot.py at 2018-06-19 12:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.43 Mbit/s
95th percentile per-packet one-way delay: 84.237 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 82.294 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 8.75 Mbit/s
95th percentile per-packet one-way delay: 84.345 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 82.333 ms
Loss rate: 3.37%
```

Run 10: Report of LEDBAT — Data Link

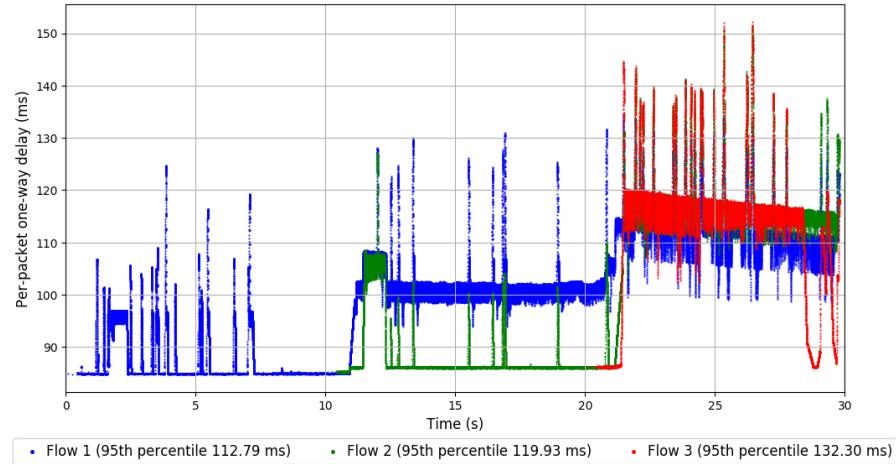
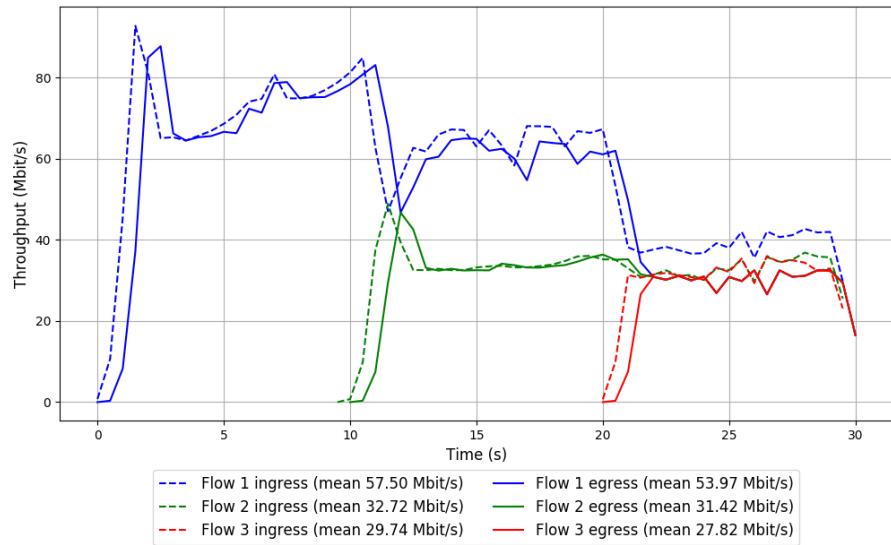


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-06-19 09:13:50
End at: 2018-06-19 09:14:20
Local clock offset: -3.215 ms
Remote clock offset: 5.067 ms

# Below is generated by plot.py at 2018-06-19 12:32:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.90 Mbit/s
95th percentile per-packet one-way delay: 117.986 ms
Loss rate: 6.36%
-- Flow 1:
Average throughput: 53.97 Mbit/s
95th percentile per-packet one-way delay: 112.790 ms
Loss rate: 6.65%
-- Flow 2:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 119.934 ms
Loss rate: 4.83%
-- Flow 3:
Average throughput: 27.82 Mbit/s
95th percentile per-packet one-way delay: 132.296 ms
Loss rate: 8.01%
```

Run 1: Report of PCC-Allegro — Data Link

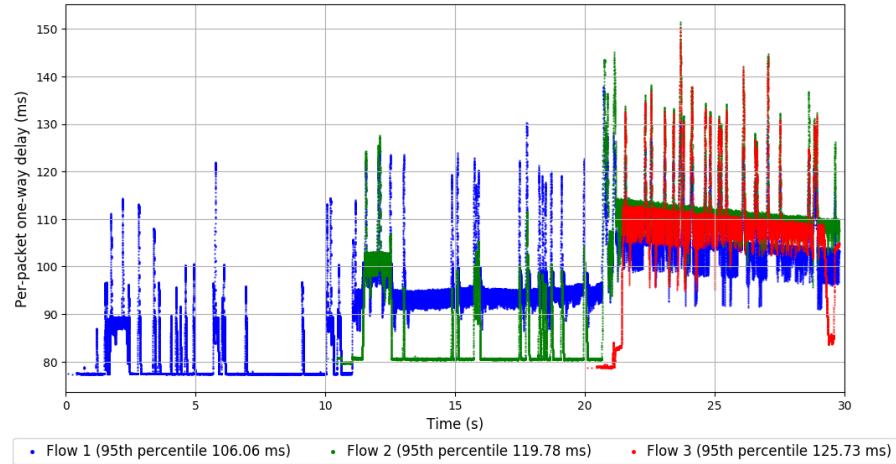
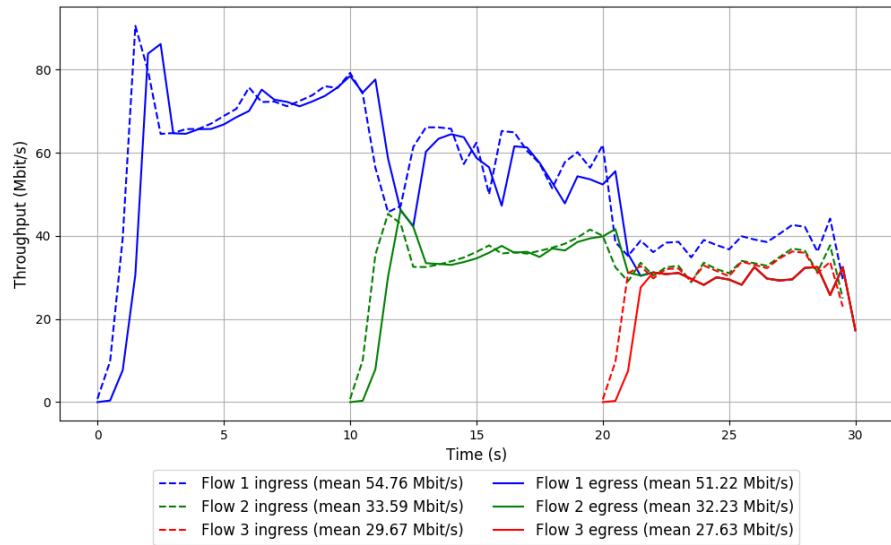


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-06-19 09:33:38
End at: 2018-06-19 09:34:08
Local clock offset: -3.58 ms
Remote clock offset: 9.583 ms

# Below is generated by plot.py at 2018-06-19 12:32:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.61 Mbit/s
95th percentile per-packet one-way delay: 112.937 ms
Loss rate: 6.59%
-- Flow 1:
Average throughput: 51.22 Mbit/s
95th percentile per-packet one-way delay: 106.058 ms
Loss rate: 6.97%
-- Flow 2:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 119.785 ms
Loss rate: 4.81%
-- Flow 3:
Average throughput: 27.63 Mbit/s
95th percentile per-packet one-way delay: 125.731 ms
Loss rate: 8.52%
```

Run 2: Report of PCC-Allegro — Data Link

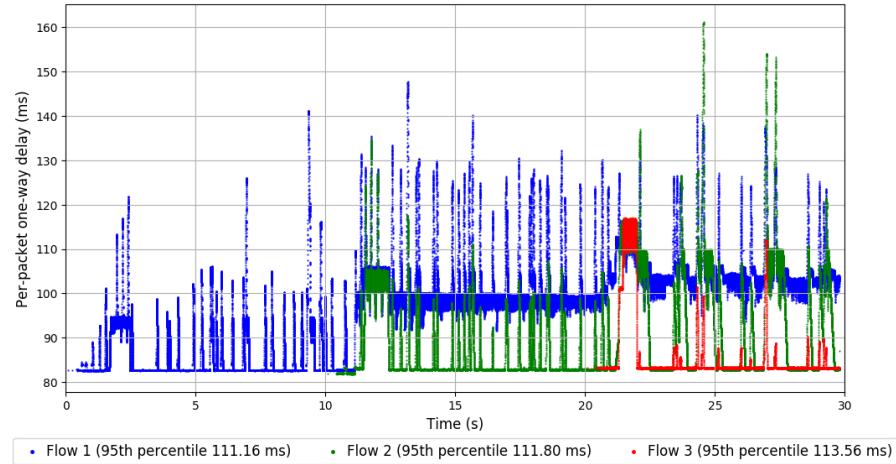
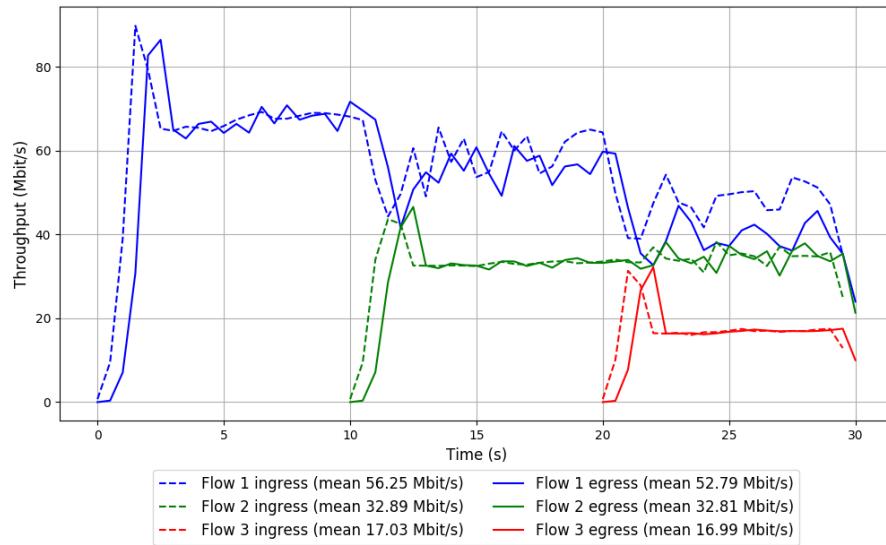


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-06-19 09:53:34
End at: 2018-06-19 09:54:04
Local clock offset: -1.899 ms
Remote clock offset: 4.254 ms

# Below is generated by plot.py at 2018-06-19 12:32:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.09 Mbit/s
95th percentile per-packet one-way delay: 111.530 ms
Loss rate: 4.90%
-- Flow 1:
Average throughput: 52.79 Mbit/s
95th percentile per-packet one-way delay: 111.156 ms
Loss rate: 6.69%
-- Flow 2:
Average throughput: 32.81 Mbit/s
95th percentile per-packet one-way delay: 111.803 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 16.99 Mbit/s
95th percentile per-packet one-way delay: 113.562 ms
Loss rate: 1.85%
```

Run 3: Report of PCC-Allegro — Data Link

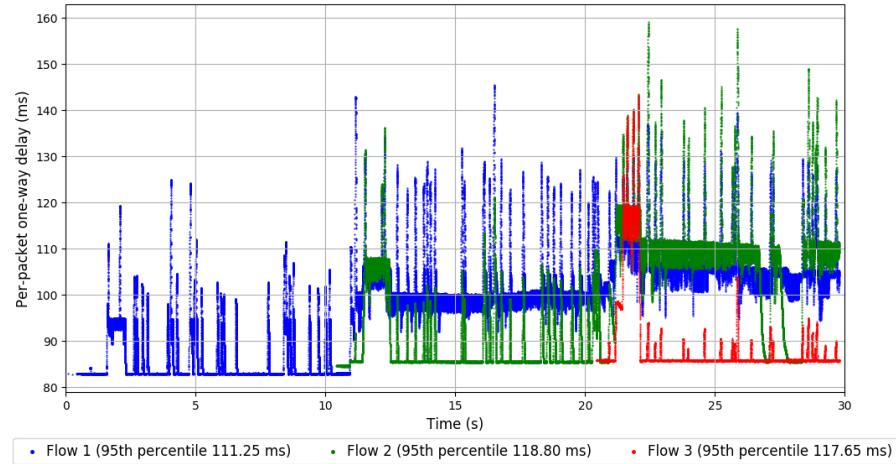
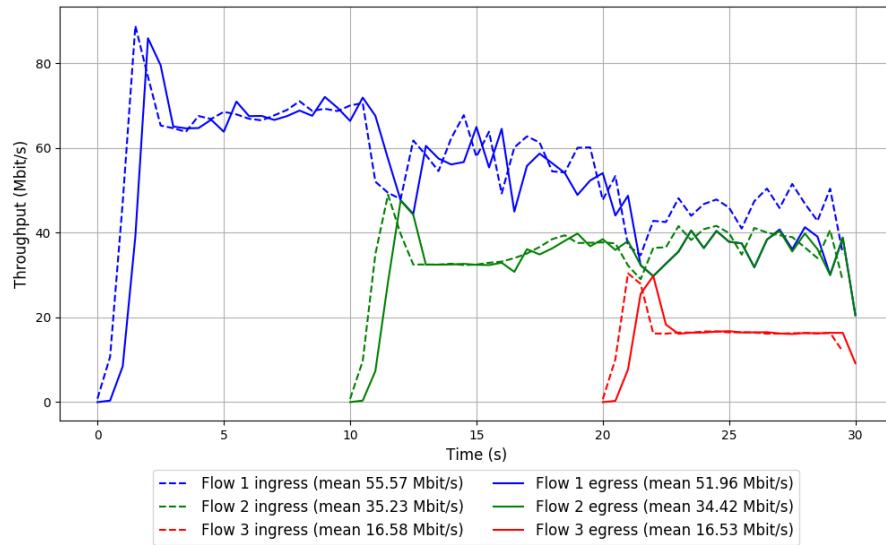


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-06-19 10:13:23
End at: 2018-06-19 10:13:53
Local clock offset: -1.791 ms
Remote clock offset: 3.731 ms

# Below is generated by plot.py at 2018-06-19 12:32:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.18 Mbit/s
95th percentile per-packet one-way delay: 115.175 ms
Loss rate: 5.62%
-- Flow 1:
Average throughput: 51.96 Mbit/s
95th percentile per-packet one-way delay: 111.249 ms
Loss rate: 7.01%
-- Flow 2:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 118.804 ms
Loss rate: 3.17%
-- Flow 3:
Average throughput: 16.53 Mbit/s
95th percentile per-packet one-way delay: 117.652 ms
Loss rate: 1.95%
```

Run 4: Report of PCC-Allegro — Data Link

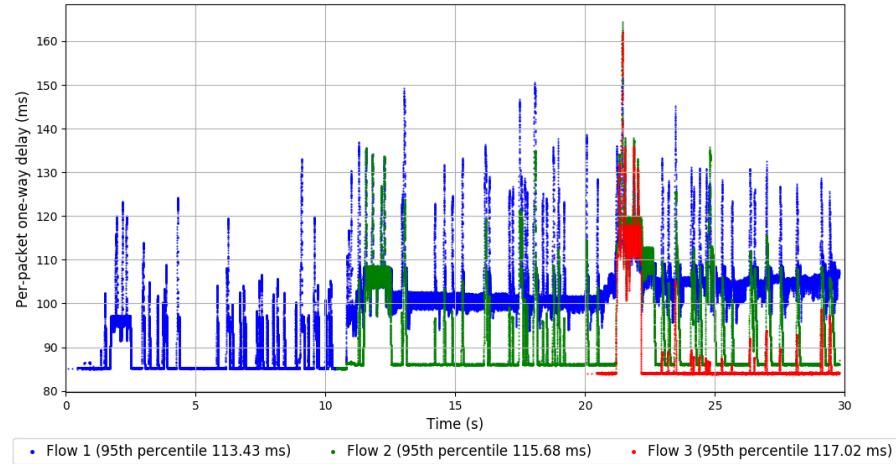
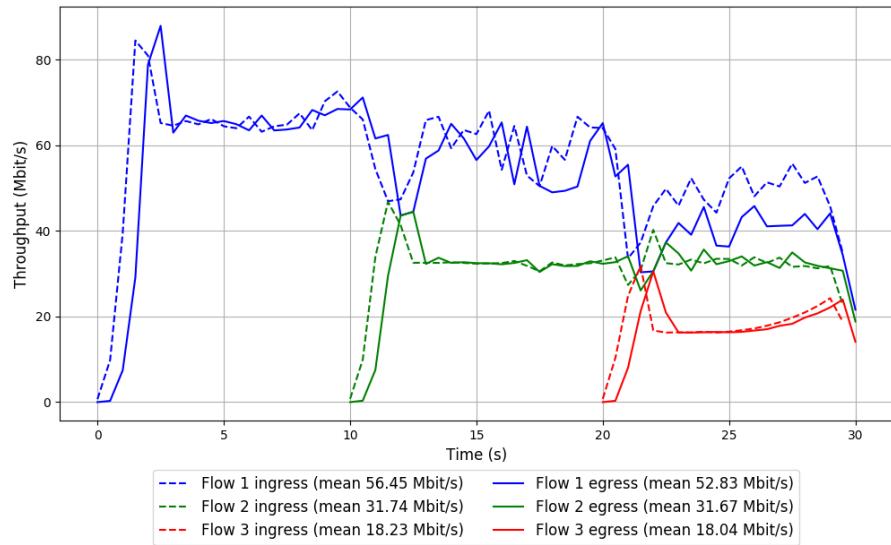


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-06-19 10:33:17
End at: 2018-06-19 10:33:47
Local clock offset: -1.745 ms
Remote clock offset: 3.636 ms

# Below is generated by plot.py at 2018-06-19 12:32:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.72 Mbit/s
95th percentile per-packet one-way delay: 114.436 ms
Loss rate: 5.13%
-- Flow 1:
Average throughput: 52.83 Mbit/s
95th percentile per-packet one-way delay: 113.427 ms
Loss rate: 6.92%
-- Flow 2:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 115.680 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 18.04 Mbit/s
95th percentile per-packet one-way delay: 117.019 ms
Loss rate: 2.66%
```

Run 5: Report of PCC-Allegro — Data Link

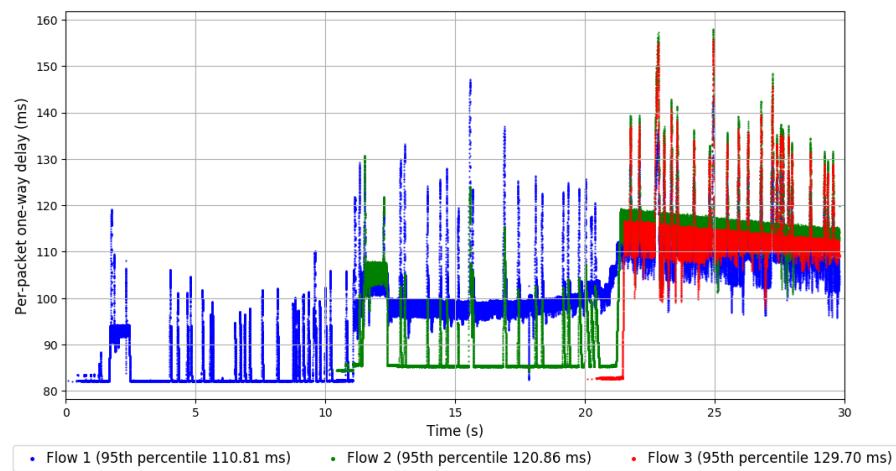
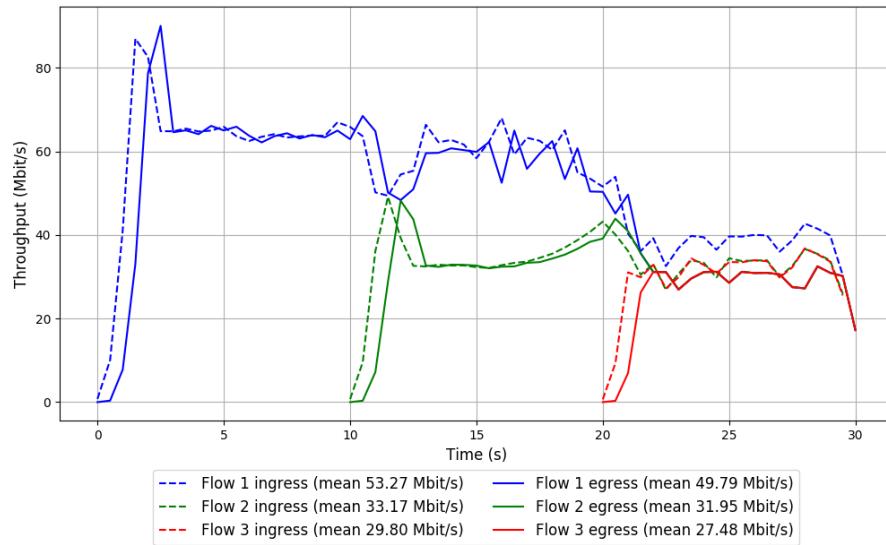


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-06-19 10:53:15
End at: 2018-06-19 10:53:45
Local clock offset: -1.515 ms
Remote clock offset: 10.21 ms

# Below is generated by plot.py at 2018-06-19 12:32:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.93 Mbit/s
95th percentile per-packet one-way delay: 117.426 ms
Loss rate: 6.63%
-- Flow 1:
Average throughput: 49.79 Mbit/s
95th percentile per-packet one-way delay: 110.807 ms
Loss rate: 7.04%
-- Flow 2:
Average throughput: 31.95 Mbit/s
95th percentile per-packet one-way delay: 120.865 ms
Loss rate: 4.44%
-- Flow 3:
Average throughput: 27.48 Mbit/s
95th percentile per-packet one-way delay: 129.697 ms
Loss rate: 9.30%
```

Run 6: Report of PCC-Allegro — Data Link

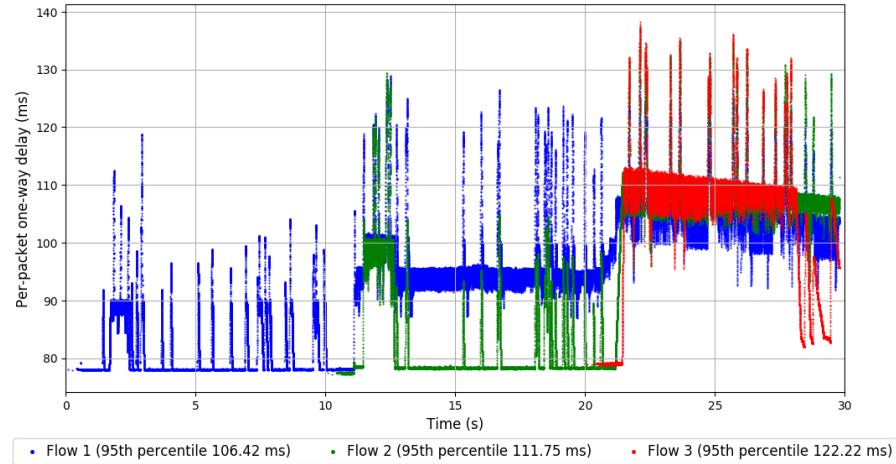
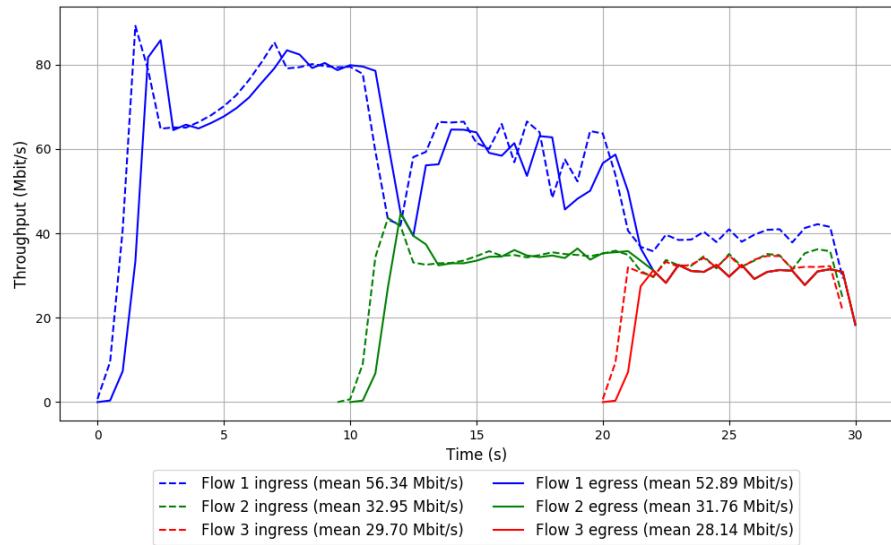


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-06-19 11:13:03
End at: 2018-06-19 11:13:33
Local clock offset: -2.111 ms
Remote clock offset: 16.278 ms

# Below is generated by plot.py at 2018-06-19 12:32:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.13 Mbit/s
95th percentile per-packet one-way delay: 110.800 ms
Loss rate: 6.11%
-- Flow 1:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 106.419 ms
Loss rate: 6.64%
-- Flow 2:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 111.753 ms
Loss rate: 4.38%
-- Flow 3:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 122.223 ms
Loss rate: 6.92%
```

Run 7: Report of PCC-Allegro — Data Link

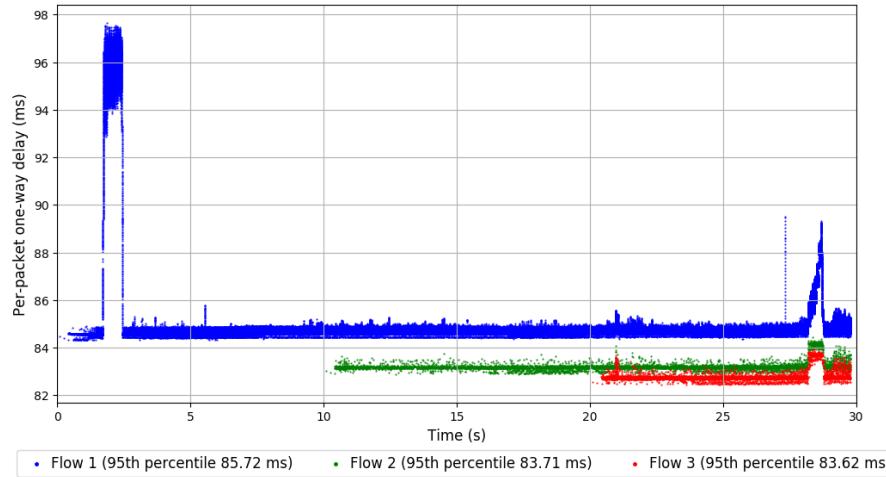
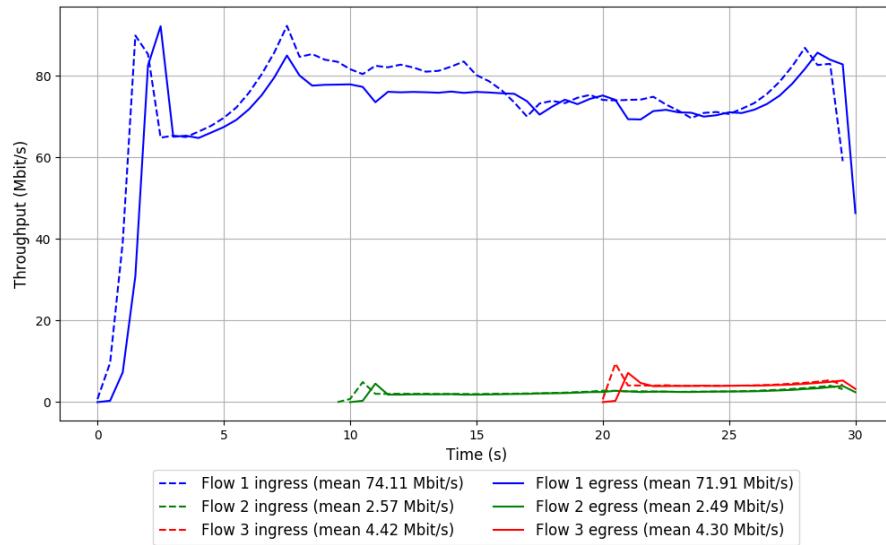


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-06-19 11:32:55
End at: 2018-06-19 11:33:25
Local clock offset: -2.462 ms
Remote clock offset: 12.799 ms

# Below is generated by plot.py at 2018-06-19 12:32:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.96 Mbit/s
95th percentile per-packet one-way delay: 85.541 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 71.91 Mbit/s
95th percentile per-packet one-way delay: 85.722 ms
Loss rate: 3.51%
-- Flow 2:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 83.710 ms
Loss rate: 3.98%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 83.619 ms
Loss rate: 4.24%
```

Run 8: Report of PCC-Allegro — Data Link

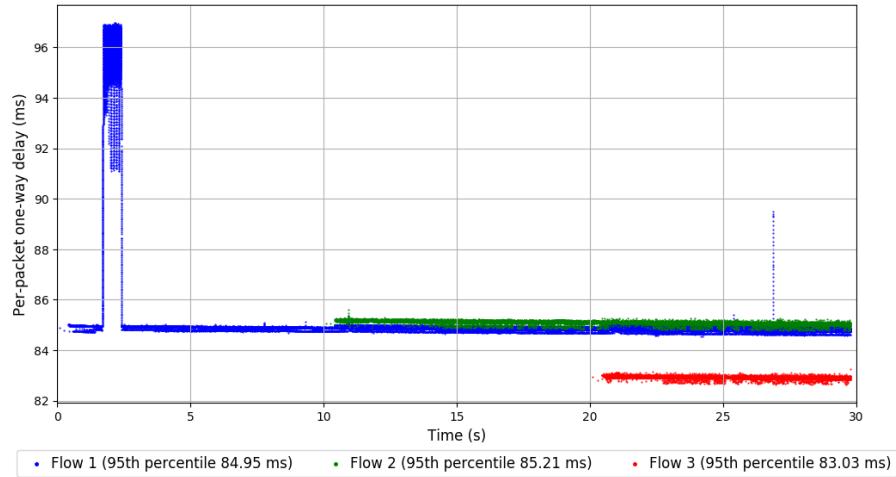
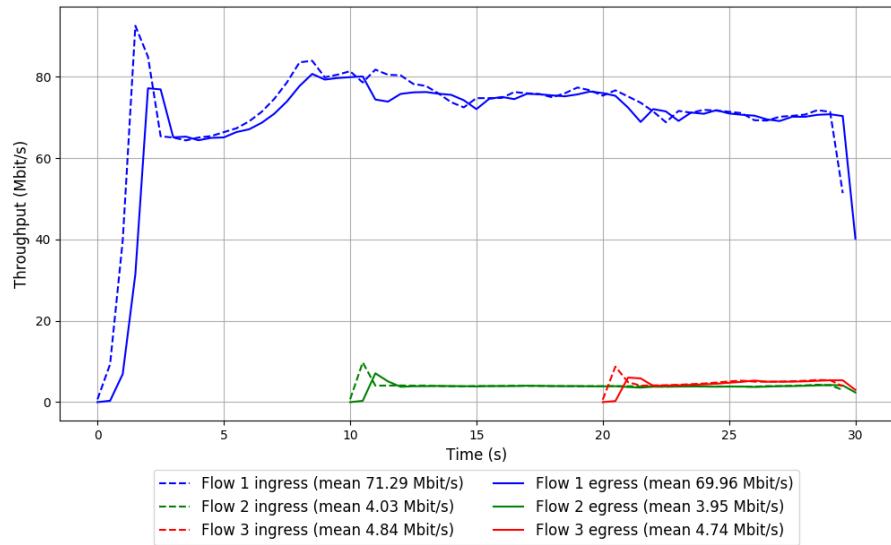


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-06-19 11:53:08
End at: 2018-06-19 11:53:38
Local clock offset: -3.044 ms
Remote clock offset: 7.64 ms

# Below is generated by plot.py at 2018-06-19 12:33:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.12 Mbit/s
95th percentile per-packet one-way delay: 85.086 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 69.96 Mbit/s
95th percentile per-packet one-way delay: 84.955 ms
Loss rate: 2.42%
-- Flow 2:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 85.214 ms
Loss rate: 2.83%
-- Flow 3:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 83.028 ms
Loss rate: 3.73%
```

Run 9: Report of PCC-Allegro — Data Link

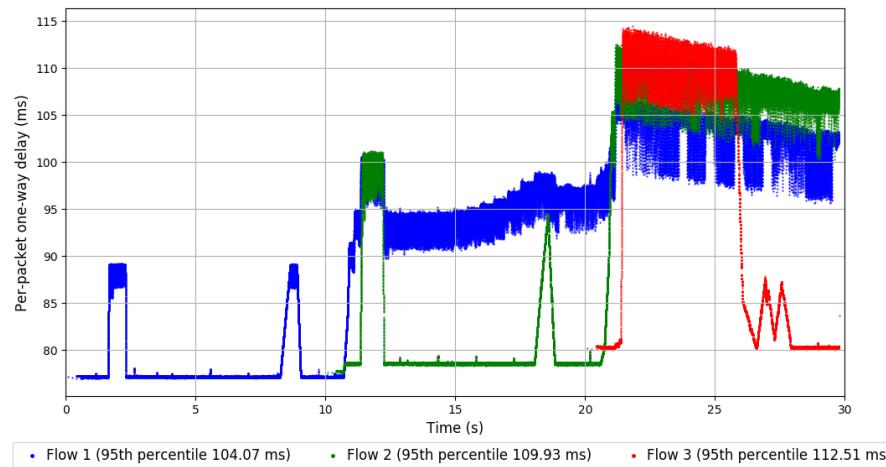
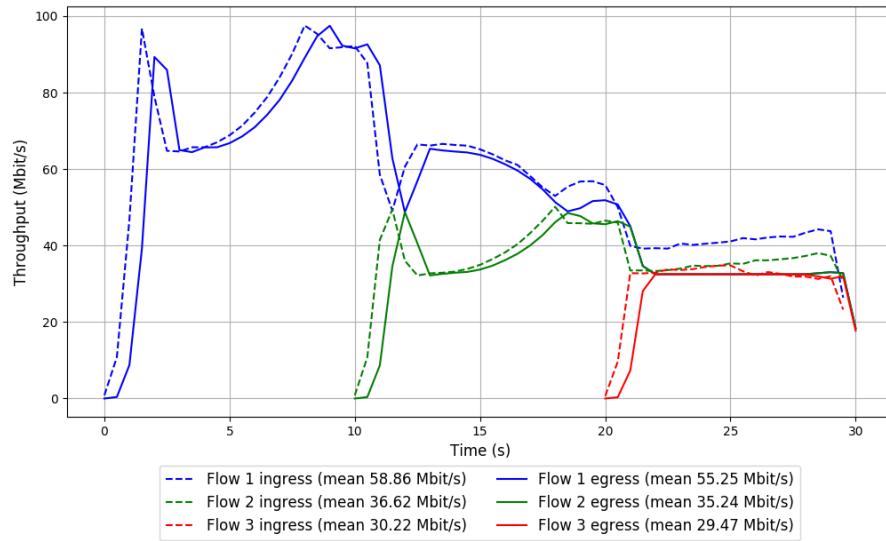


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-06-19 12:13:11
End at: 2018-06-19 12:13:41
Local clock offset: -2.846 ms
Remote clock offset: 7.828 ms

# Below is generated by plot.py at 2018-06-19 12:33:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.22 Mbit/s
95th percentile per-packet one-way delay: 109.609 ms
Loss rate: 5.71%
-- Flow 1:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 104.070 ms
Loss rate: 6.46%
-- Flow 2:
Average throughput: 35.24 Mbit/s
95th percentile per-packet one-way delay: 109.930 ms
Loss rate: 4.57%
-- Flow 3:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 112.514 ms
Loss rate: 4.09%
```

Run 10: Report of PCC-Allegro — Data Link

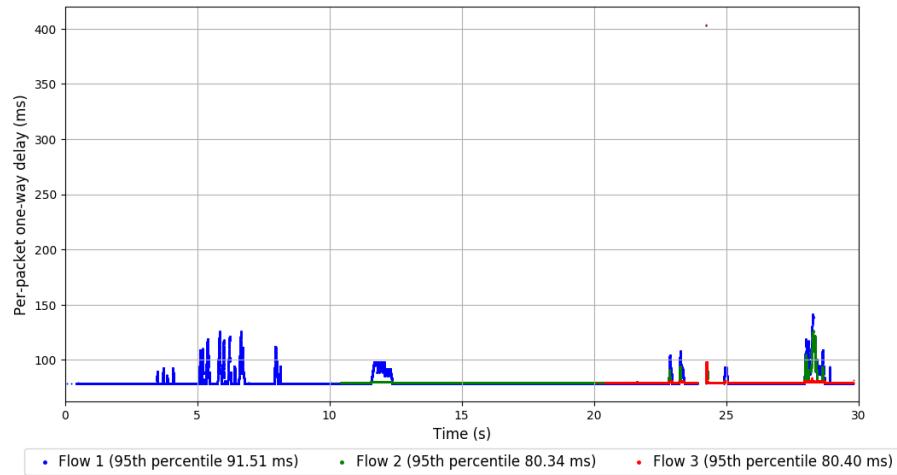
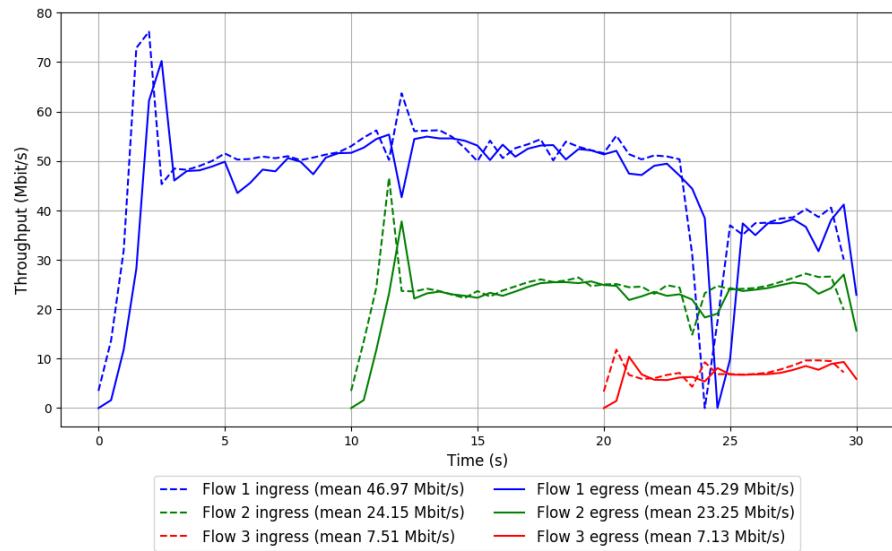


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2018-06-19 09:07:41
End at: 2018-06-19 09:08:11
Local clock offset: -3.036 ms
Remote clock offset: 8.903 ms

# Below is generated by plot.py at 2018-06-19 12:33:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.04 Mbit/s
95th percentile per-packet one-way delay: 89.517 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 45.29 Mbit/s
95th percentile per-packet one-way delay: 91.506 ms
Loss rate: 4.11%
-- Flow 2:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 80.345 ms
Loss rate: 4.53%
-- Flow 3:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 80.400 ms
Loss rate: 6.63%
```

Run 1: Report of PCC-Expr — Data Link

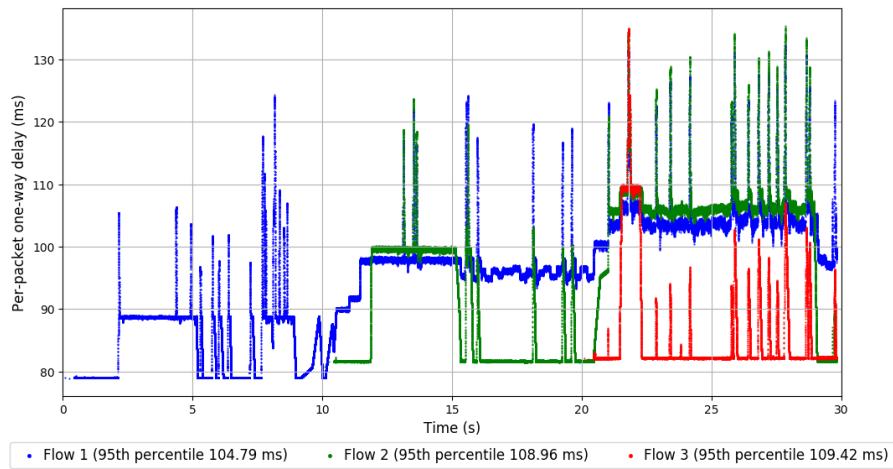
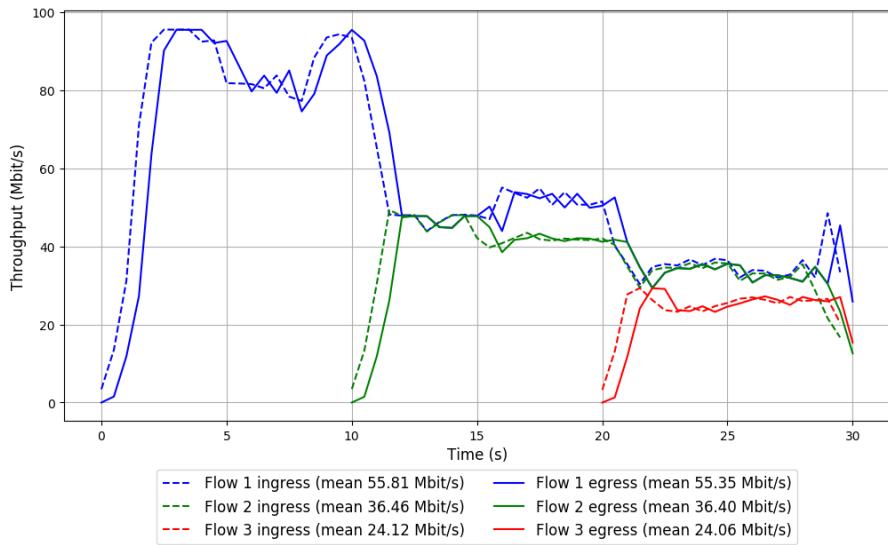


Run 2: Statistics of PCC-Expr

```
Start at: 2018-06-19 09:27:28
End at: 2018-06-19 09:27:58
Local clock offset: -3.502 ms
Remote clock offset: 9.23 ms

# Below is generated by plot.py at 2018-06-19 12:34:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 107.001 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 104.794 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 108.961 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 24.06 Mbit/s
95th percentile per-packet one-way delay: 109.419 ms
Loss rate: 1.93%
```

Run 2: Report of PCC-Expr — Data Link

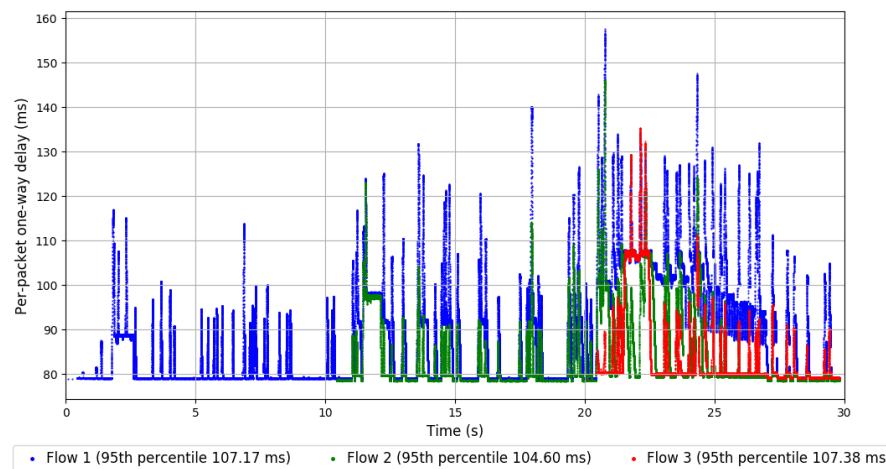
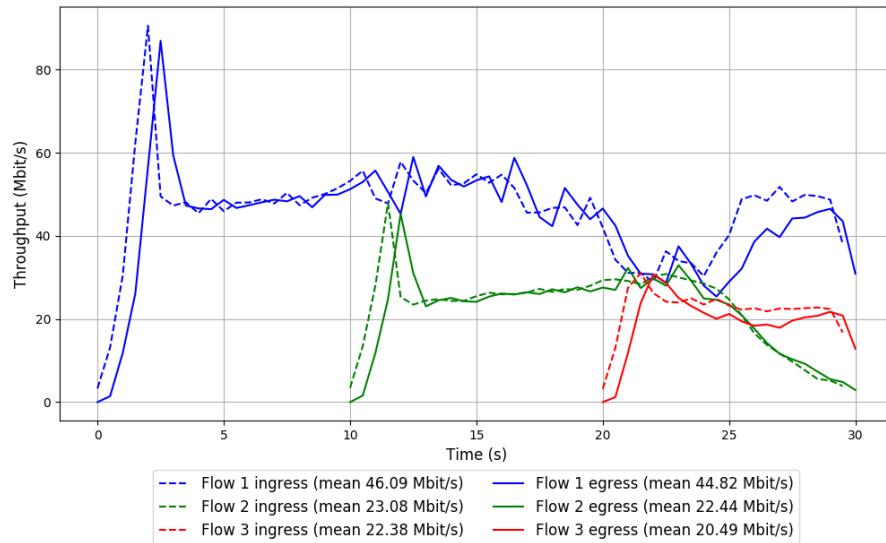


Run 3: Statistics of PCC-Expr

```
Start at: 2018-06-19 09:47:15
End at: 2018-06-19 09:47:45
Local clock offset: -2.1 ms
Remote clock offset: 10.201 ms

# Below is generated by plot.py at 2018-06-19 12:34:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.40 Mbit/s
95th percentile per-packet one-way delay: 107.041 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 107.175 ms
Loss rate: 3.29%
-- Flow 2:
Average throughput: 22.44 Mbit/s
95th percentile per-packet one-way delay: 104.604 ms
Loss rate: 3.57%
-- Flow 3:
Average throughput: 20.49 Mbit/s
95th percentile per-packet one-way delay: 107.380 ms
Loss rate: 9.97%
```

Run 3: Report of PCC-Expr — Data Link

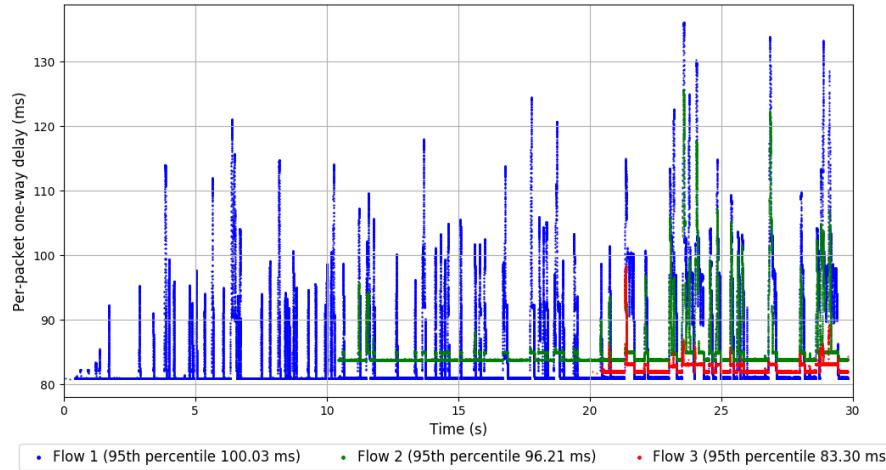
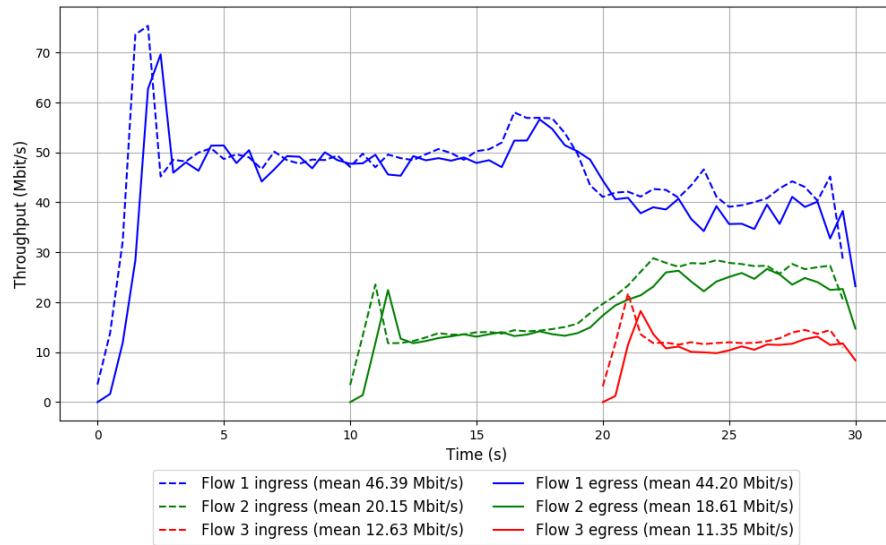


Run 4: Statistics of PCC-Expr

```
Start at: 2018-06-19 10:07:14
End at: 2018-06-19 10:07:44
Local clock offset: -1.742 ms
Remote clock offset: 4.988 ms

# Below is generated by plot.py at 2018-06-19 12:34:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 98.959 ms
Loss rate: 6.31%
-- Flow 1:
Average throughput: 44.20 Mbit/s
95th percentile per-packet one-way delay: 100.027 ms
Loss rate: 5.25%
-- Flow 2:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 96.207 ms
Loss rate: 8.38%
-- Flow 3:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 83.302 ms
Loss rate: 11.53%
```

Run 4: Report of PCC-Expr — Data Link

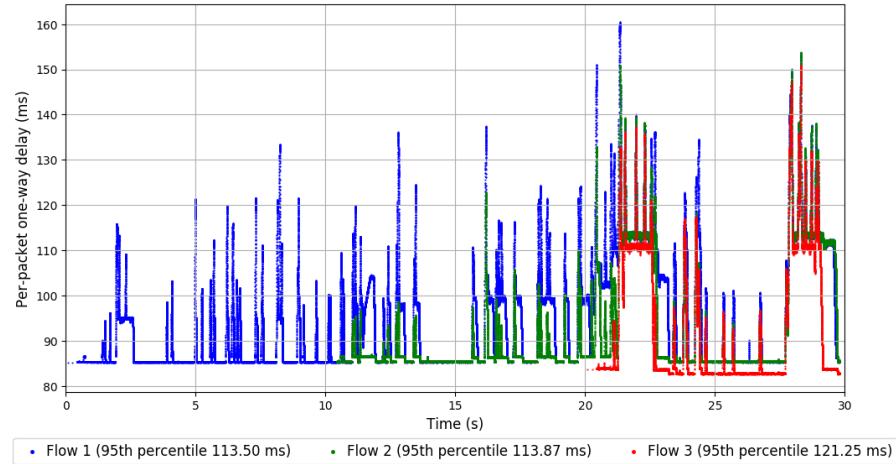
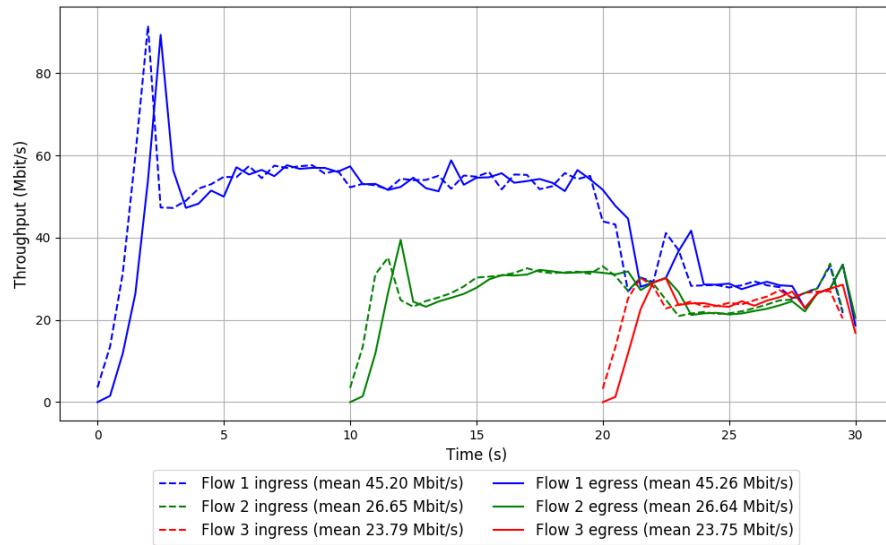


Run 5: Statistics of PCC-Expr

```
Start at: 2018-06-19 10:27:06
End at: 2018-06-19 10:27:36
Local clock offset: -1.763 ms
Remote clock offset: 3.534 ms

# Below is generated by plot.py at 2018-06-19 12:34:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.68 Mbit/s
95th percentile per-packet one-way delay: 113.705 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 45.26 Mbit/s
95th percentile per-packet one-way delay: 113.499 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 113.866 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 121.253 ms
Loss rate: 1.82%
```

Run 5: Report of PCC-Expr — Data Link

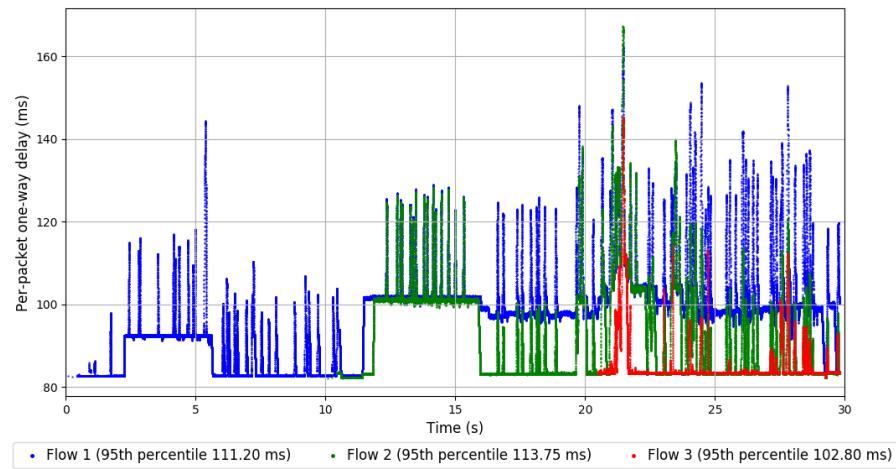
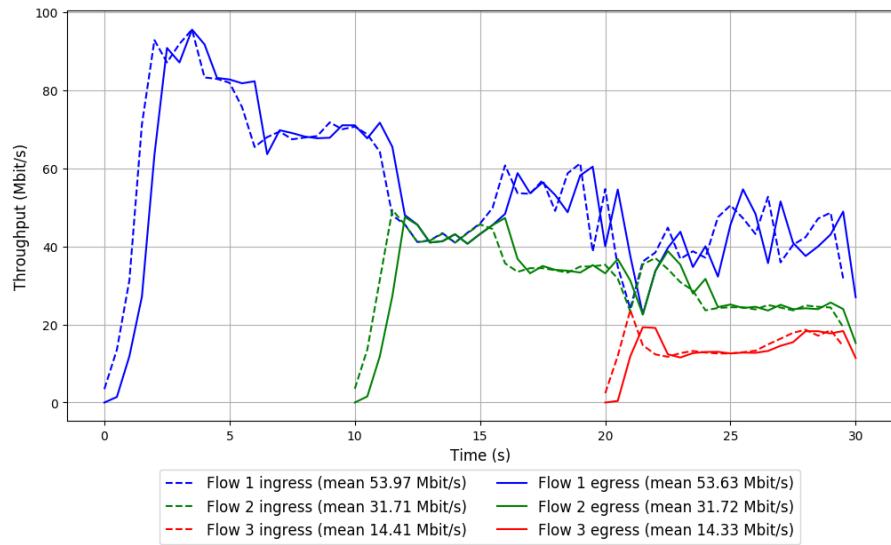


Run 6: Statistics of PCC-Expr

```
Start at: 2018-06-19 10:46:56
End at: 2018-06-19 10:47:26
Local clock offset: -1.606 ms
Remote clock offset: 7.914 ms

# Below is generated by plot.py at 2018-06-19 12:34:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.35 Mbit/s
95th percentile per-packet one-way delay: 111.221 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 53.63 Mbit/s
95th percentile per-packet one-way delay: 111.203 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 113.750 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 102.801 ms
Loss rate: 2.16%
```

Run 6: Report of PCC-Expr — Data Link

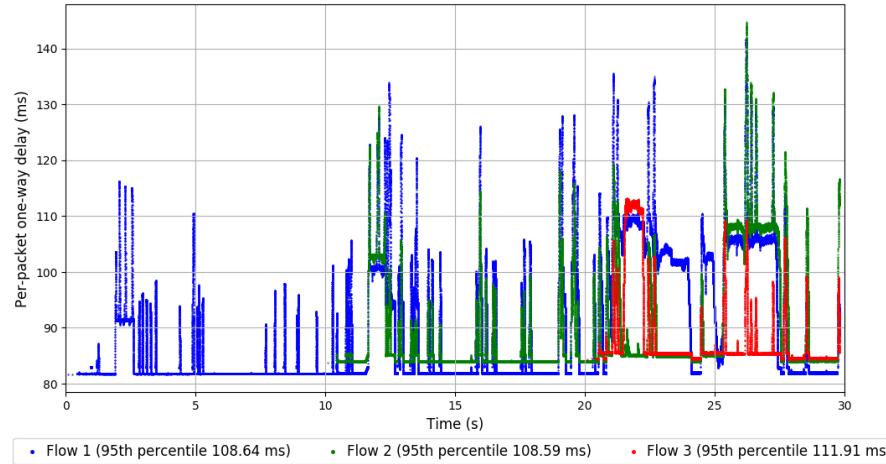
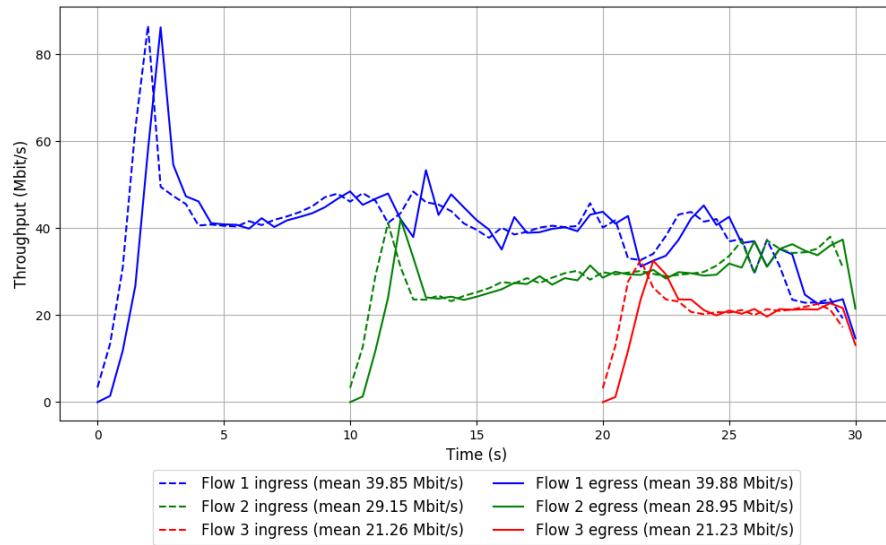


Run 7: Statistics of PCC-Expr

```
Start at: 2018-06-19 11:06:54
End at: 2018-06-19 11:07:24
Local clock offset: -1.707 ms
Remote clock offset: 11.731 ms

# Below is generated by plot.py at 2018-06-19 12:34:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.01 Mbit/s
95th percentile per-packet one-way delay: 109.288 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 39.88 Mbit/s
95th percentile per-packet one-way delay: 108.637 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 28.95 Mbit/s
95th percentile per-packet one-way delay: 108.591 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 111.908 ms
Loss rate: 1.82%
```

Run 7: Report of PCC-Expr — Data Link

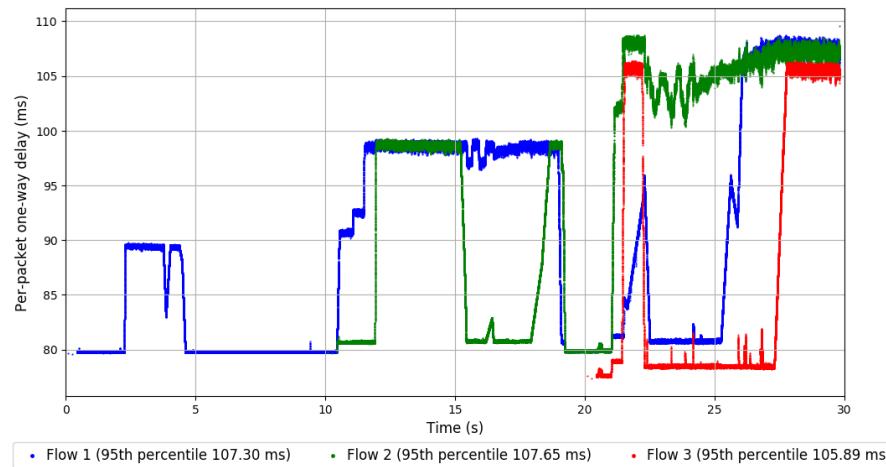
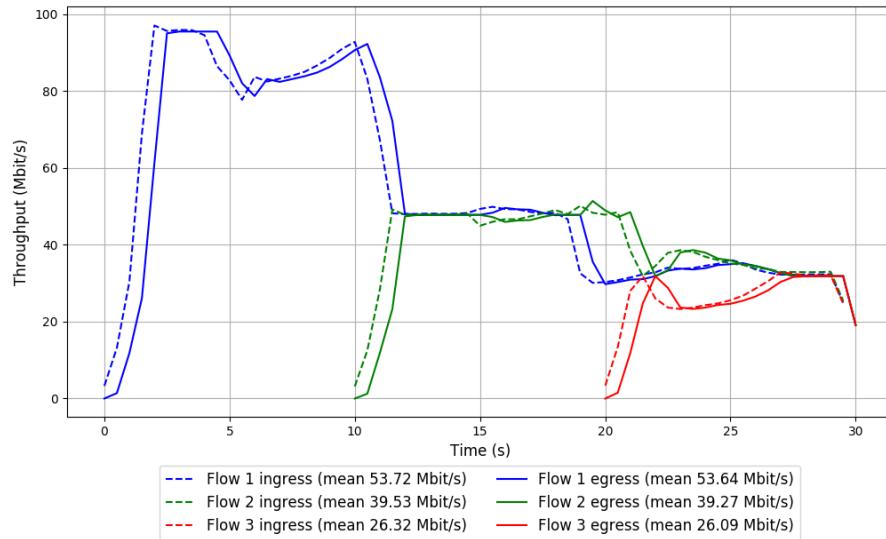


Run 8: Statistics of PCC-Expr

```
Start at: 2018-06-19 11:26:42
End at: 2018-06-19 11:27:12
Local clock offset: -2.392 ms
Remote clock offset: 17.368 ms

# Below is generated by plot.py at 2018-06-19 12:35:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.22 Mbit/s
95th percentile per-packet one-way delay: 107.378 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 53.64 Mbit/s
95th percentile per-packet one-way delay: 107.304 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 107.646 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 26.09 Mbit/s
95th percentile per-packet one-way delay: 105.890 ms
Loss rate: 2.52%
```

Run 8: Report of PCC-Expr — Data Link

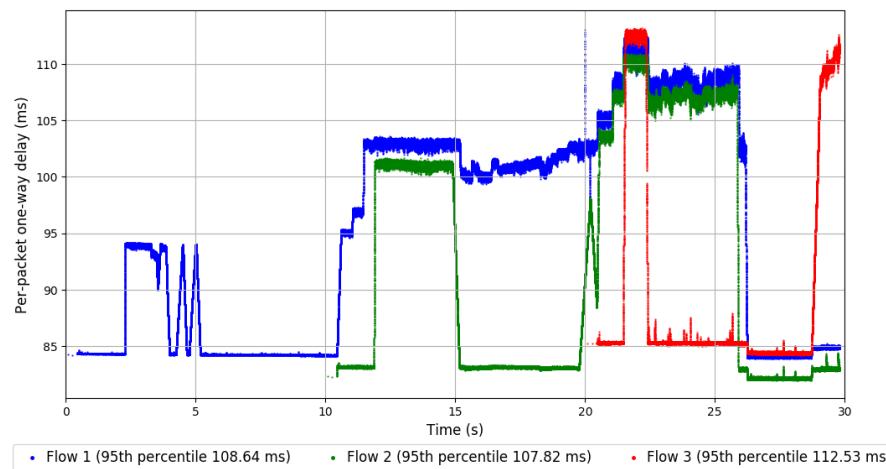
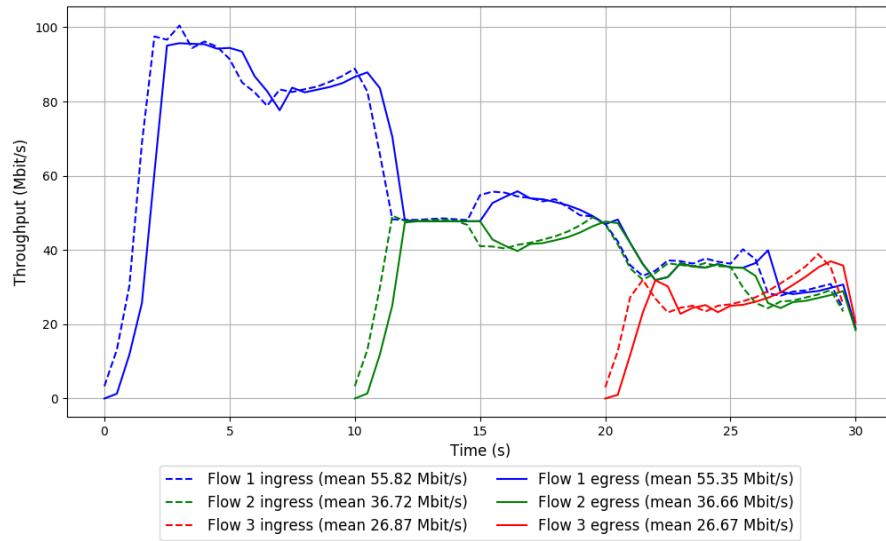


Run 9: Statistics of PCC-Expr

```
Start at: 2018-06-19 11:46:57
End at: 2018-06-19 11:47:27
Local clock offset: -2.94 ms
Remote clock offset: 11.76 ms

# Below is generated by plot.py at 2018-06-19 12:36:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 109.014 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 108.641 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 36.66 Mbit/s
95th percentile per-packet one-way delay: 107.820 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 112.528 ms
Loss rate: 2.41%
```

Run 9: Report of PCC-Expr — Data Link

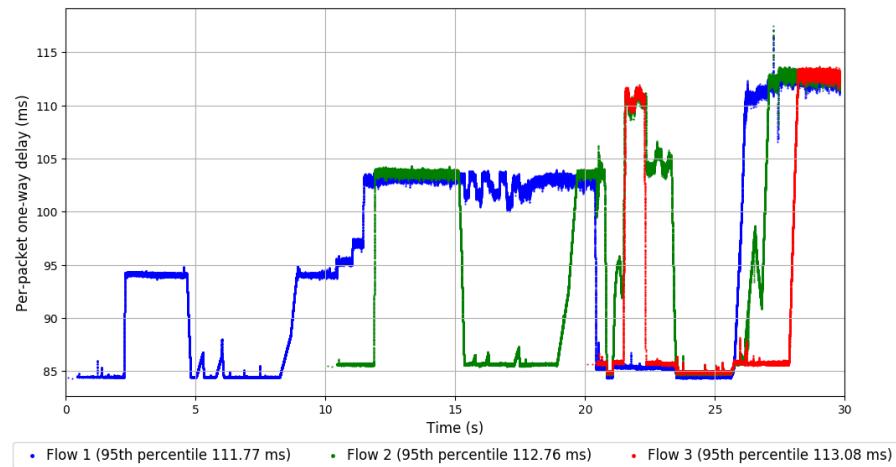
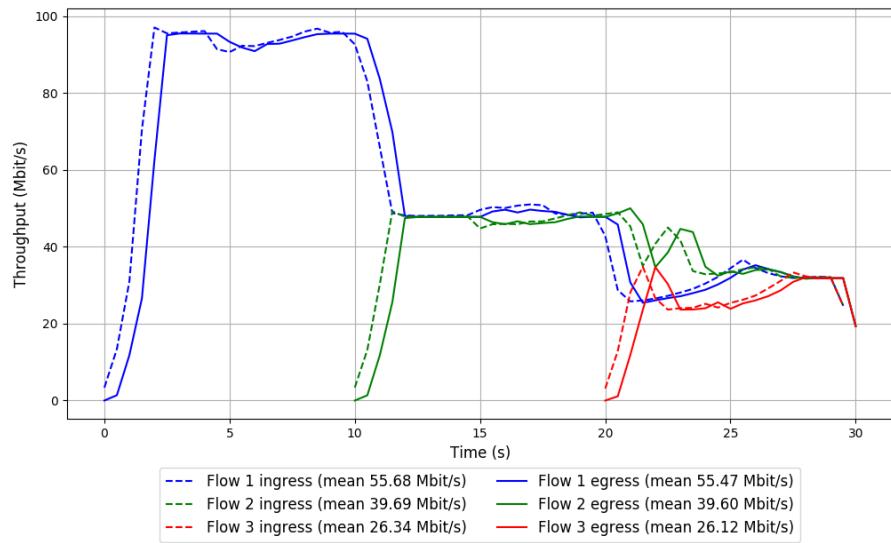


Run 10: Statistics of PCC-Expr

```
Start at: 2018-06-19 12:06:59
End at: 2018-06-19 12:07:29
Local clock offset: -3.128 ms
Remote clock offset: 3.588 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 112.558 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 111.767 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 39.60 Mbit/s
95th percentile per-packet one-way delay: 112.759 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 26.12 Mbit/s
95th percentile per-packet one-way delay: 113.084 ms
Loss rate: 2.47%
```

Run 10: Report of PCC-Expr — Data Link

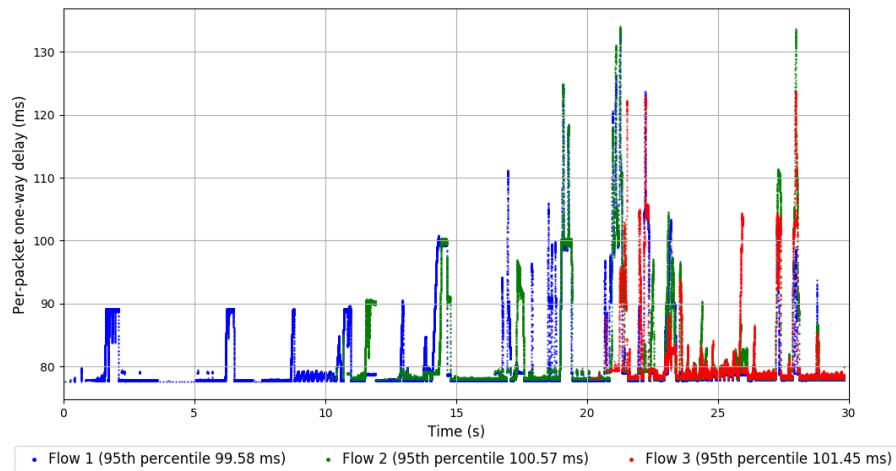
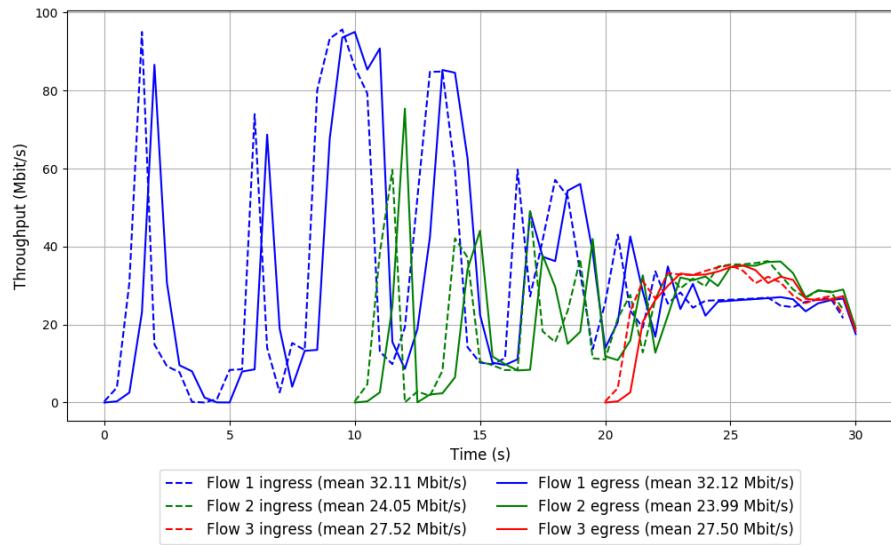


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 09:11:25
End at: 2018-06-19 09:11:55
Local clock offset: -3.132 ms
Remote clock offset: 9.927 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 99.905 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 99.578 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 100.572 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 101.452 ms
Loss rate: 1.70%
```

Run 1: Report of QUIC Cubic — Data Link

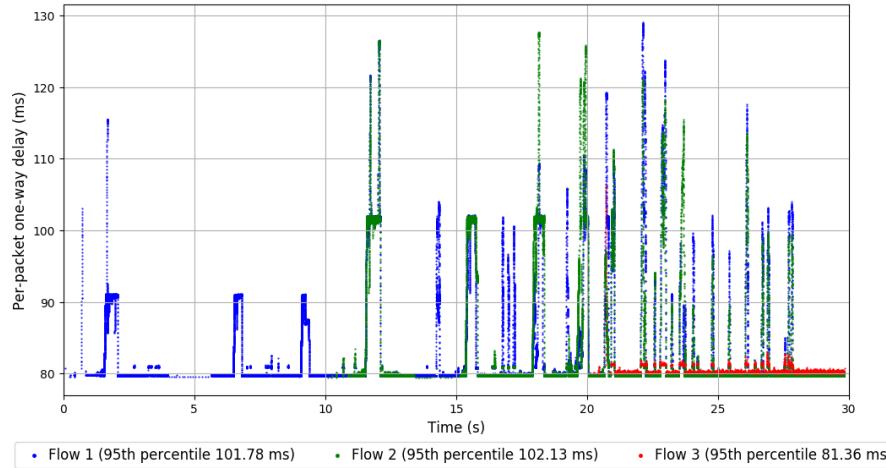
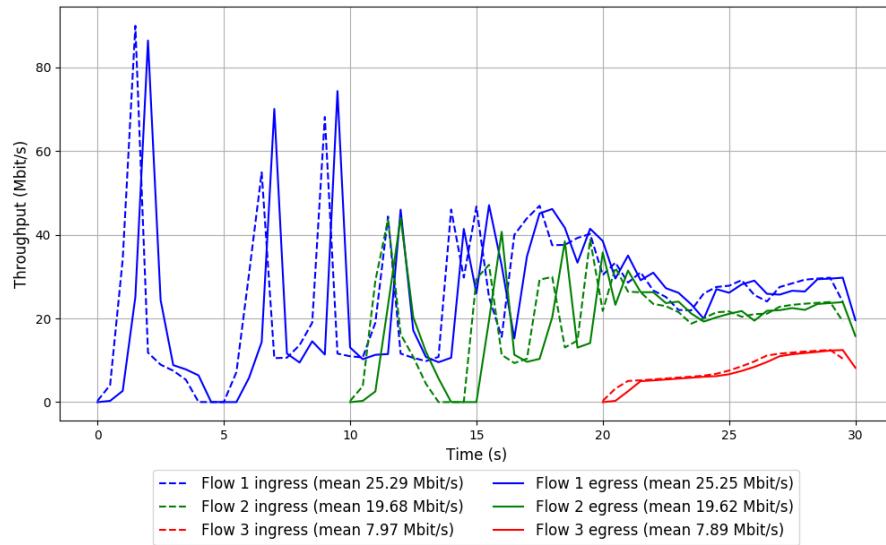


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-06-19 09:31:14
End at: 2018-06-19 09:31:44
Local clock offset: -3.623 ms
Remote clock offset: 9.873 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.85 Mbit/s
95th percentile per-packet one-way delay: 101.830 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 25.25 Mbit/s
95th percentile per-packet one-way delay: 101.775 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 19.62 Mbit/s
95th percentile per-packet one-way delay: 102.133 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 81.356 ms
Loss rate: 2.64%
```

Run 2: Report of QUIC Cubic — Data Link

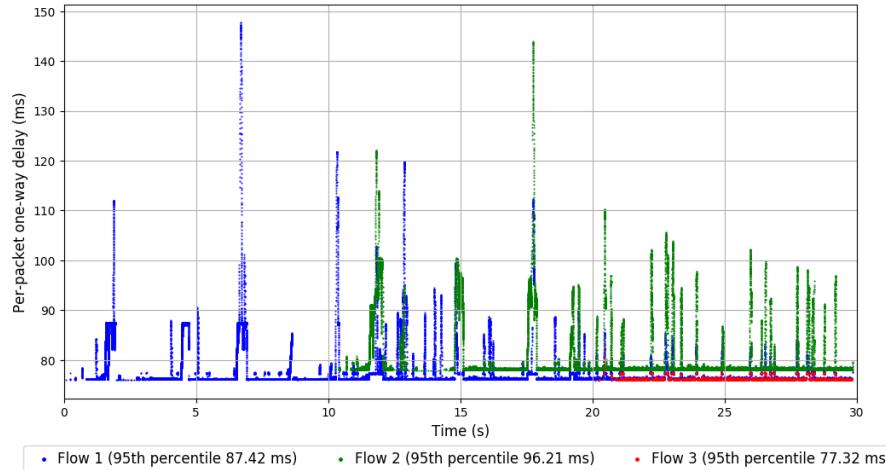
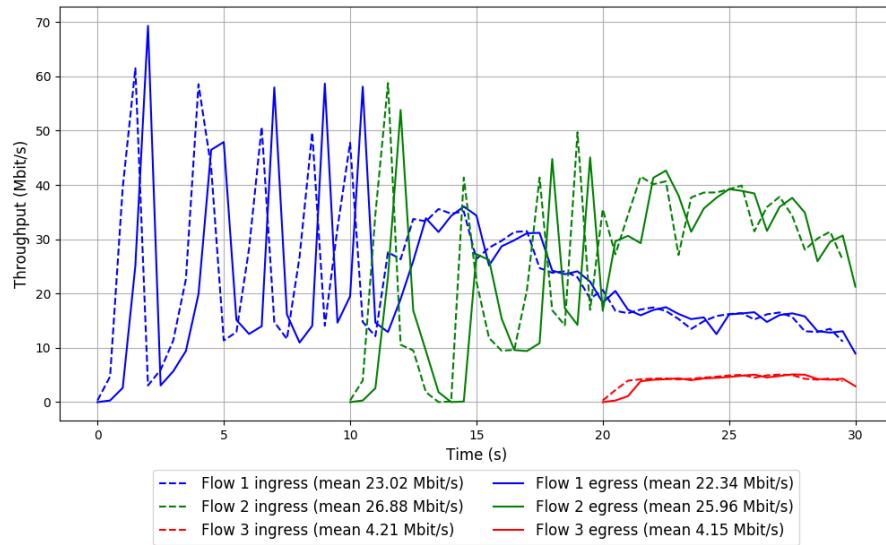


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-06-19 09:51:10
End at: 2018-06-19 09:51:40
Local clock offset: -1.931 ms
Remote clock offset: 10.142 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 92.494 ms
Loss rate: 3.76%
-- Flow 1:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 87.417 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 25.96 Mbit/s
95th percentile per-packet one-way delay: 96.206 ms
Loss rate: 4.18%
-- Flow 3:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 77.324 ms
Loss rate: 3.10%
```

Run 3: Report of QUIC Cubic — Data Link

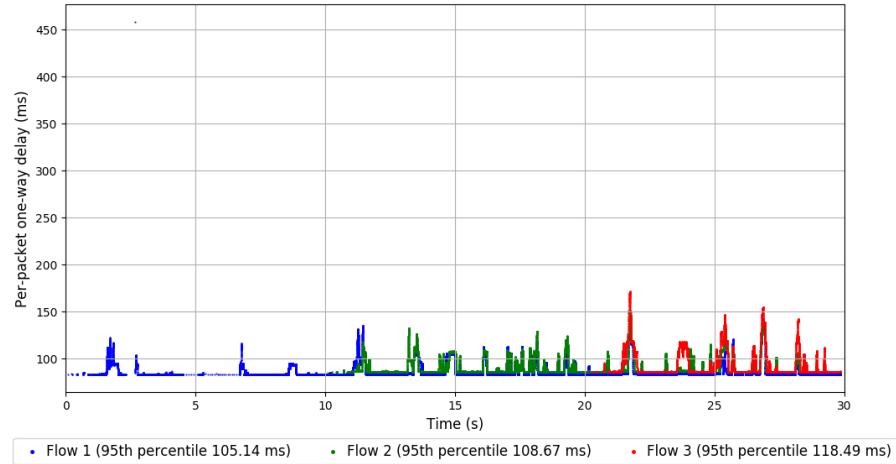
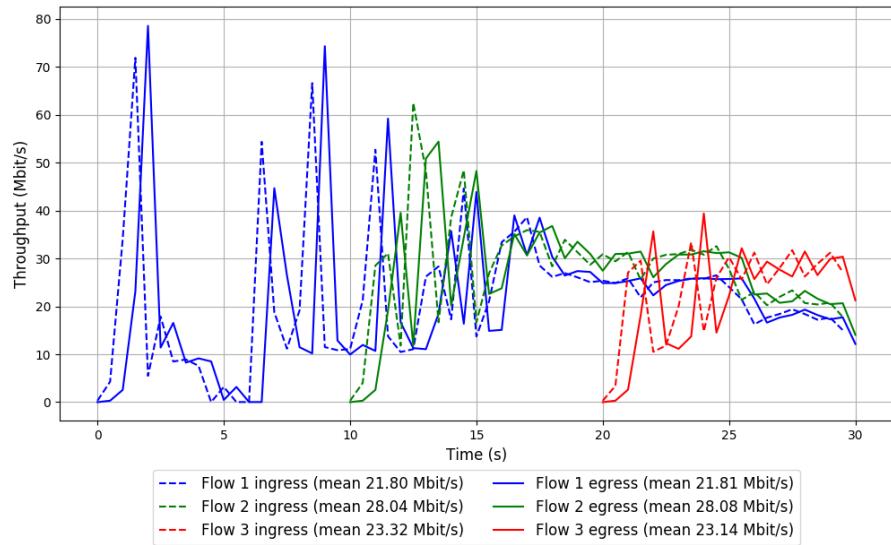


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-06-19 10:10:59
End at: 2018-06-19 10:11:29
Local clock offset: -1.746 ms
Remote clock offset: 3.79 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.02 Mbit/s
95th percentile per-packet one-way delay: 111.403 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 21.81 Mbit/s
95th percentile per-packet one-way delay: 105.144 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 108.675 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 118.490 ms
Loss rate: 2.40%
```

Run 4: Report of QUIC Cubic — Data Link

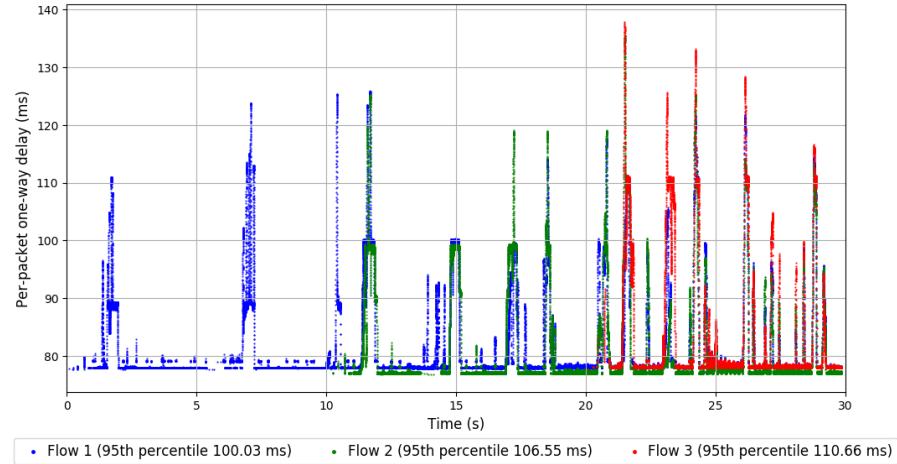
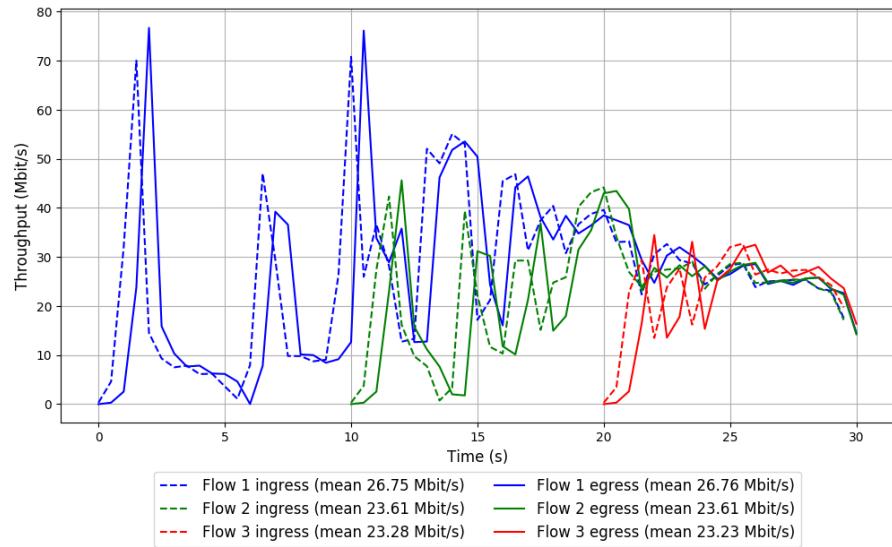


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-06-19 10:30:53
End at: 2018-06-19 10:31:23
Local clock offset: -1.817 ms
Remote clock offset: 8.717 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 107.398 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 100.029 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 23.61 Mbit/s
95th percentile per-packet one-way delay: 106.549 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 110.664 ms
Loss rate: 1.86%
```

Run 5: Report of QUIC Cubic — Data Link

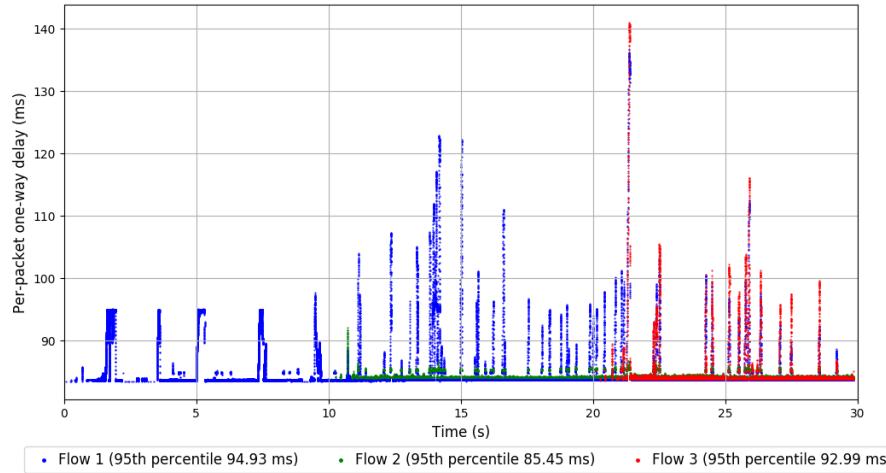
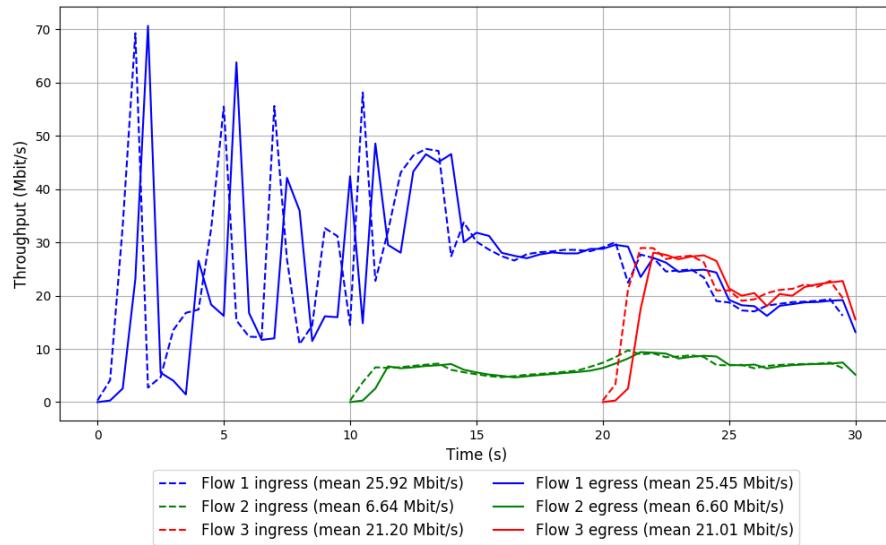


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-06-19 10:50:52
End at: 2018-06-19 10:51:22
Local clock offset: -1.61 ms
Remote clock offset: 9.949 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.70 Mbit/s
95th percentile per-packet one-way delay: 94.876 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 25.45 Mbit/s
95th percentile per-packet one-way delay: 94.931 ms
Loss rate: 2.34%
-- Flow 2:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 85.452 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 21.01 Mbit/s
95th percentile per-packet one-way delay: 92.988 ms
Loss rate: 2.56%
```

Run 6: Report of QUIC Cubic — Data Link

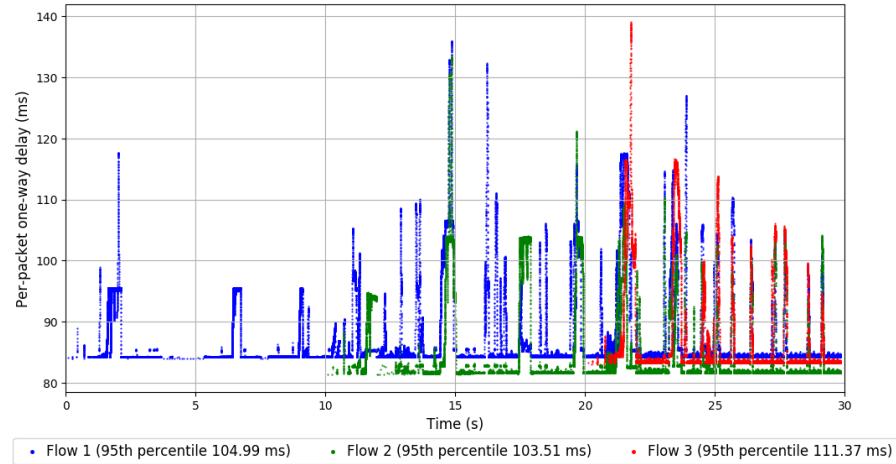
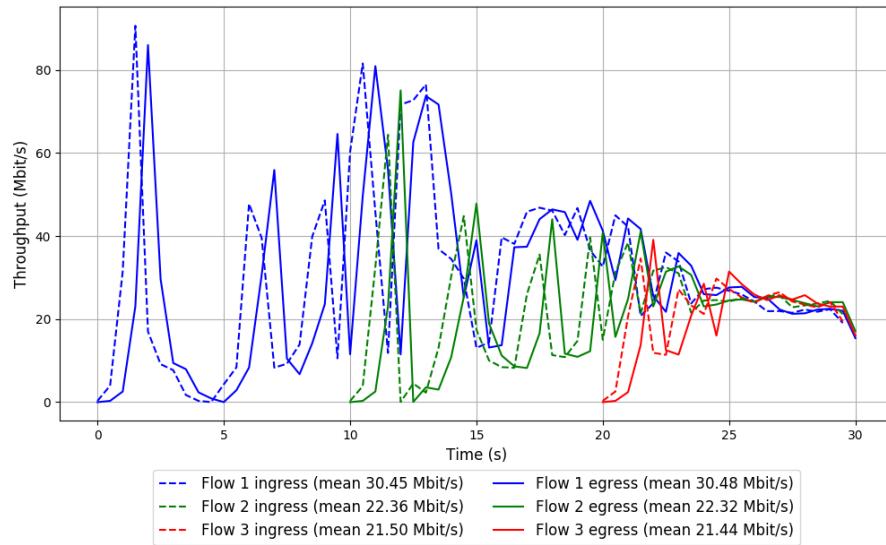


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-06-19 11:10:39
End at: 2018-06-19 11:11:09
Local clock offset: -1.949 ms
Remote clock offset: 12.229 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.29 Mbit/s
95th percentile per-packet one-way delay: 104.456 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 30.48 Mbit/s
95th percentile per-packet one-way delay: 104.989 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 22.32 Mbit/s
95th percentile per-packet one-way delay: 103.509 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 111.370 ms
Loss rate: 1.93%
```

Run 7: Report of QUIC Cubic — Data Link

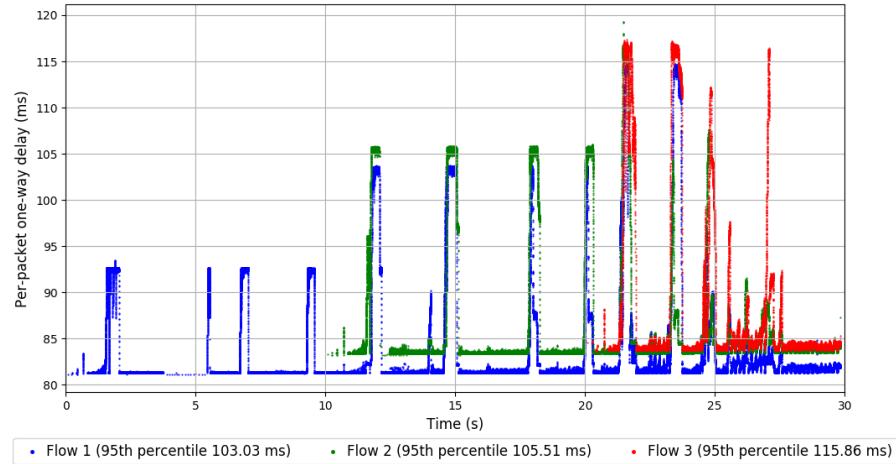
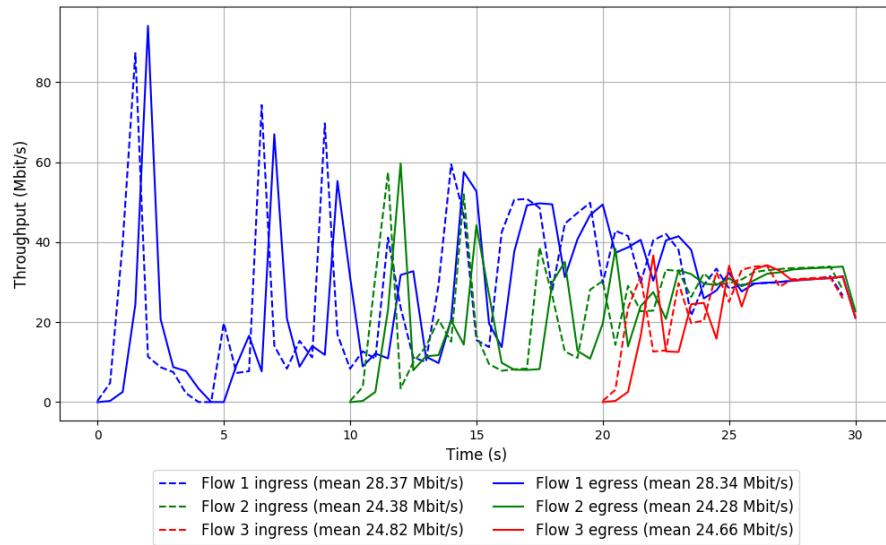


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-06-19 11:30:31
End at: 2018-06-19 11:31:01
Local clock offset: -2.497 ms
Remote clock offset: 13.742 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.52 Mbit/s
95th percentile per-packet one-way delay: 105.479 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 28.34 Mbit/s
95th percentile per-packet one-way delay: 103.034 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 105.510 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 115.855 ms
Loss rate: 2.27%
```

Run 8: Report of QUIC Cubic — Data Link

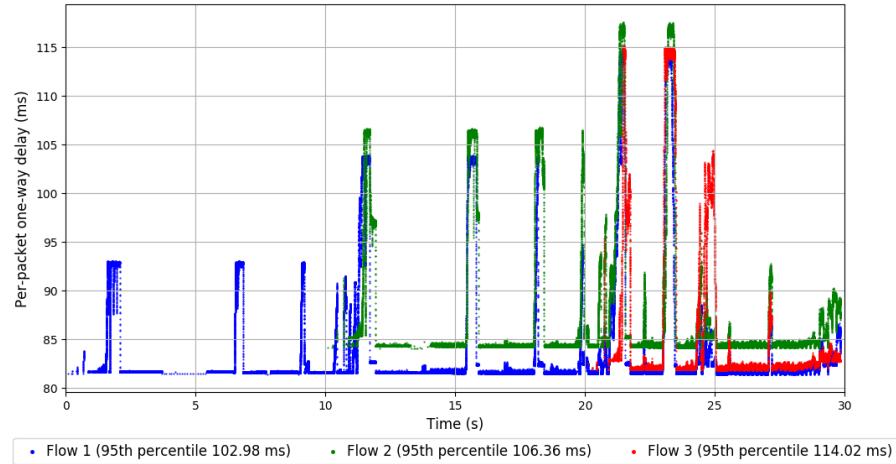
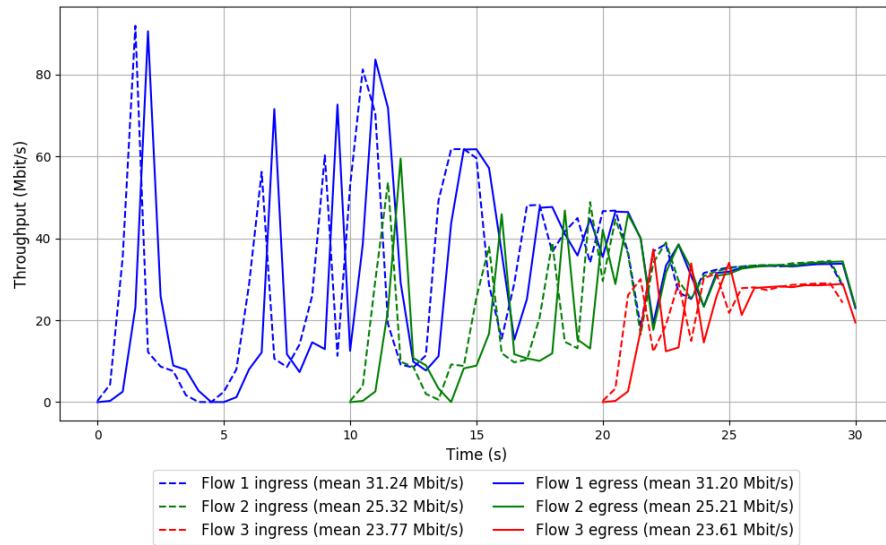


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-06-19 11:50:44
End at: 2018-06-19 11:51:14
Local clock offset: -3.0 ms
Remote clock offset: 9.86 ms

# Below is generated by plot.py at 2018-06-19 12:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.65 Mbit/s
95th percentile per-packet one-way delay: 105.533 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 102.976 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 25.21 Mbit/s
95th percentile per-packet one-way delay: 106.362 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 23.61 Mbit/s
95th percentile per-packet one-way delay: 114.024 ms
Loss rate: 2.17%
```

Run 9: Report of QUIC Cubic — Data Link

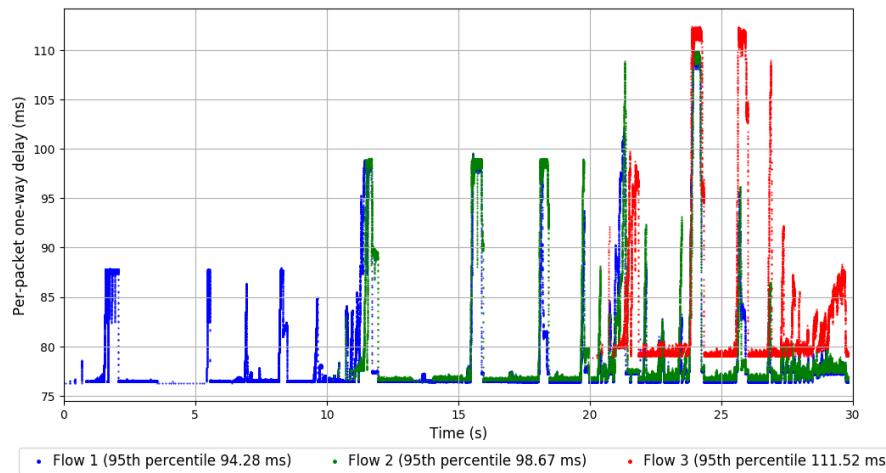
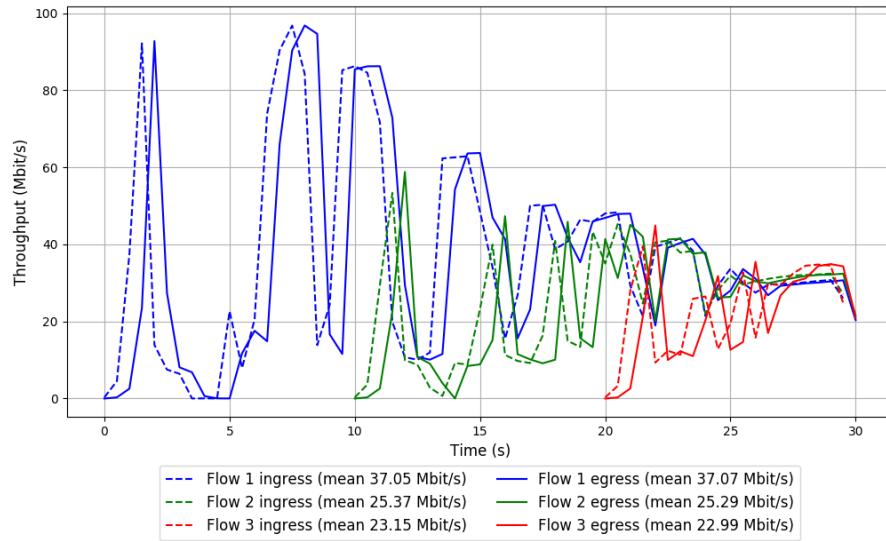


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-06-19 12:10:46
End at: 2018-06-19 12:11:16
Local clock offset: -2.974 ms
Remote clock offset: 9.247 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.36 Mbit/s
95th percentile per-packet one-way delay: 98.453 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 37.07 Mbit/s
95th percentile per-packet one-way delay: 94.275 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 25.29 Mbit/s
95th percentile per-packet one-way delay: 98.665 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 22.99 Mbit/s
95th percentile per-packet one-way delay: 111.523 ms
Loss rate: 2.33%
```

Run 10: Report of QUIC Cubic — Data Link

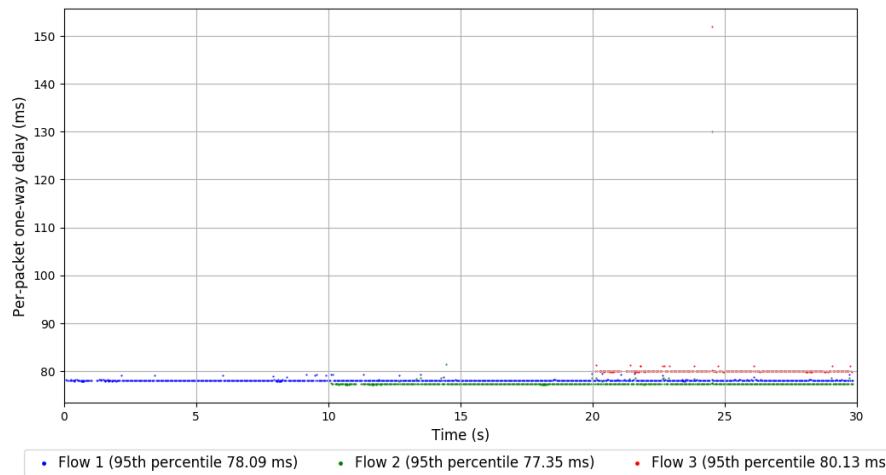
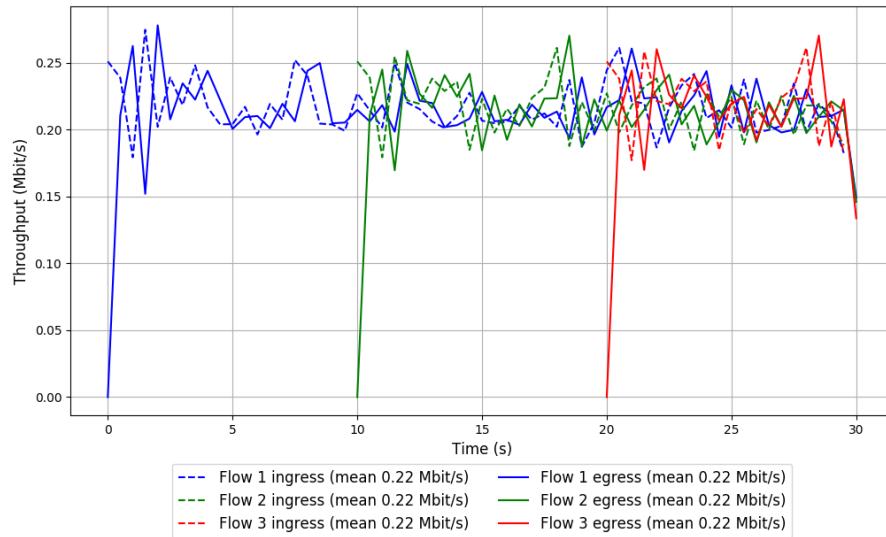


```
Run 1: Statistics of SCReAM

Start at: 2018-06-19 09:12:39
End at: 2018-06-19 09:13:09
Local clock offset: -3.183 ms
Remote clock offset: 9.954 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.927 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.093 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.350 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.131 ms
Loss rate: 1.84%
```

Run 1: Report of SCReAM — Data Link

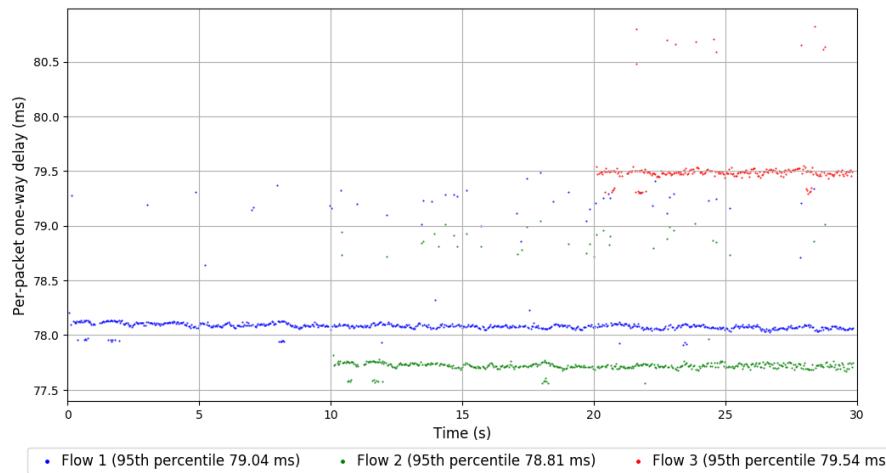
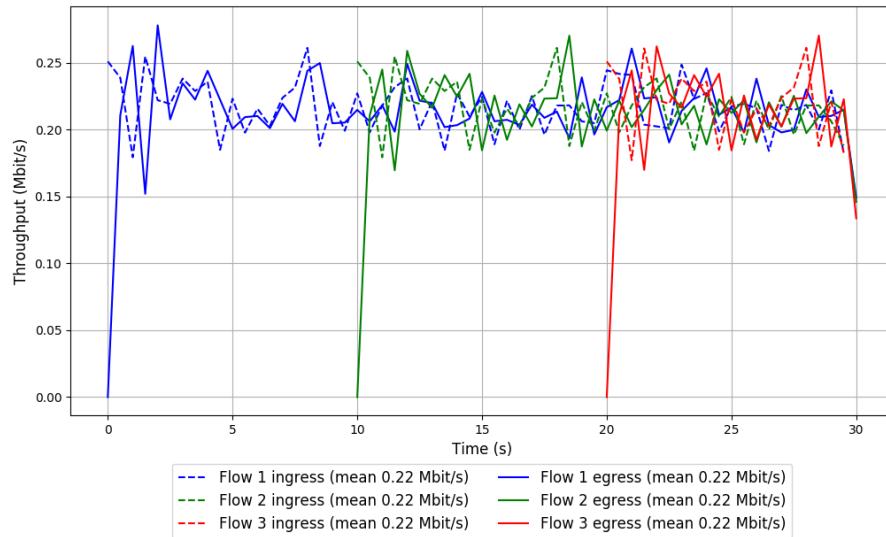


Run 2: Statistics of SCReAM

```
Start at: 2018-06-19 09:32:27
End at: 2018-06-19 09:32:57
Local clock offset: -3.57 ms
Remote clock offset: 9.651 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.500 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.044 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.810 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.541 ms
Loss rate: 1.84%
```

Run 2: Report of SCReAM — Data Link

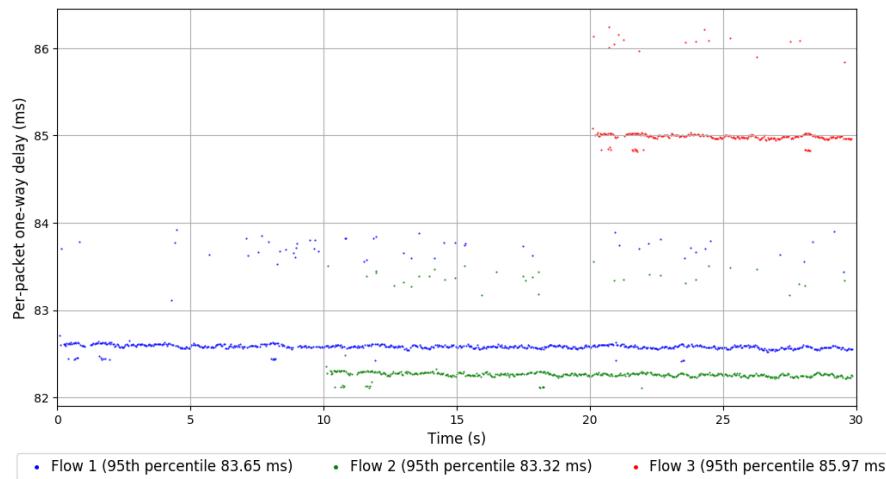
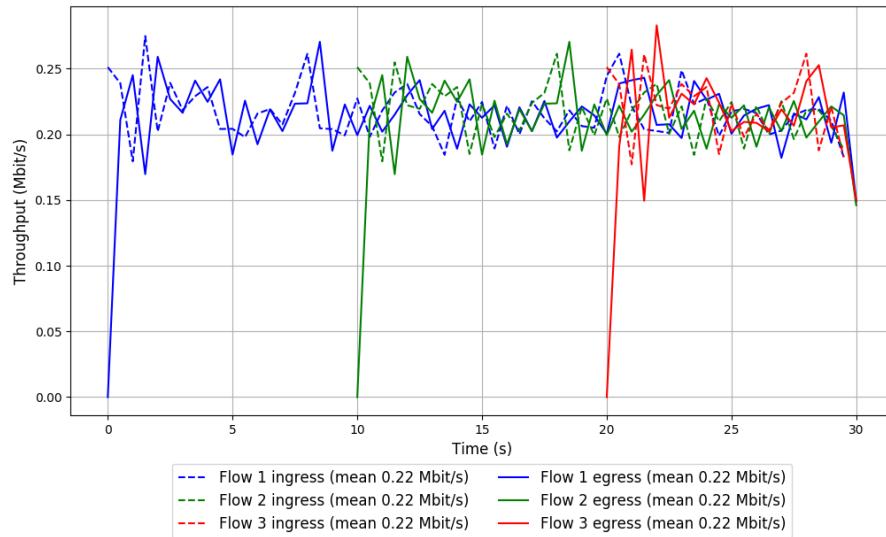


```
Run 3: Statistics of SCReAM

Start at: 2018-06-19 09:52:23
End at: 2018-06-19 09:52:53
Local clock offset: -1.937 ms
Remote clock offset: 4.171 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.007 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.651 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.318 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.968 ms
Loss rate: 1.84%
```

Run 3: Report of SCReAM — Data Link

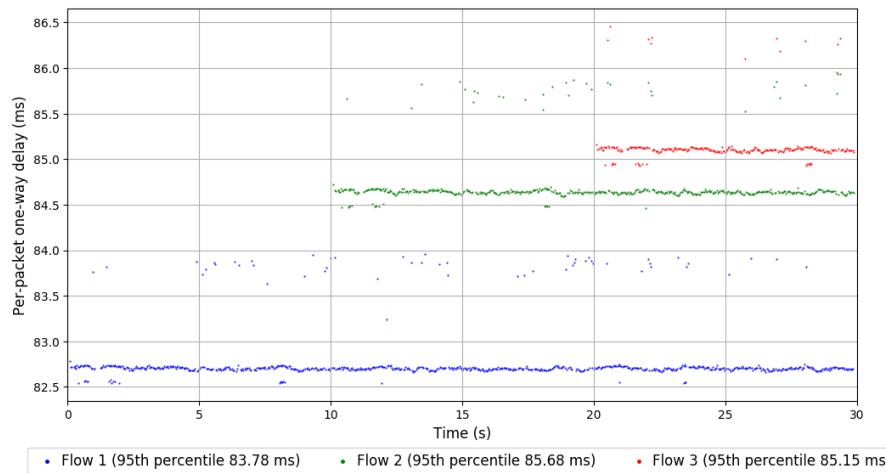
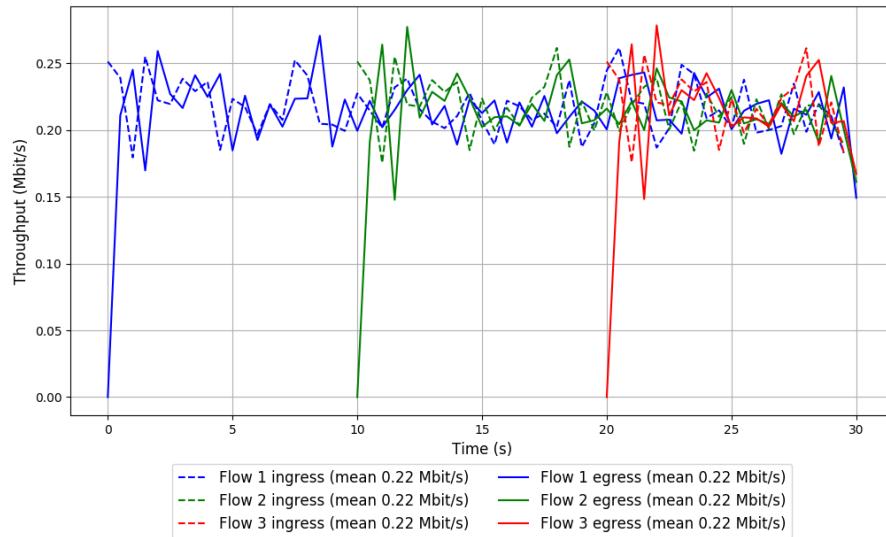


Run 4: Statistics of SCReAM

```
Start at: 2018-06-19 10:12:13
End at: 2018-06-19 10:12:43
Local clock offset: -1.829 ms
Remote clock offset: 3.848 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.130 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.775 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.676 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.146 ms
Loss rate: 1.45%
```

Run 4: Report of SCReAM — Data Link

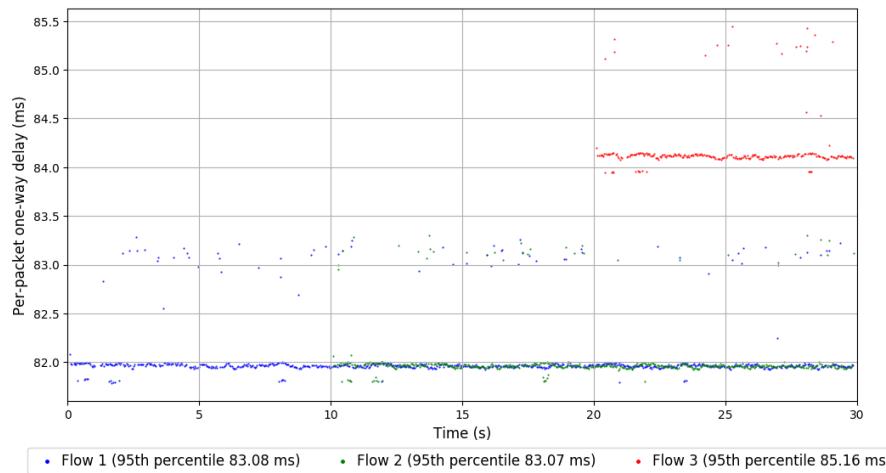
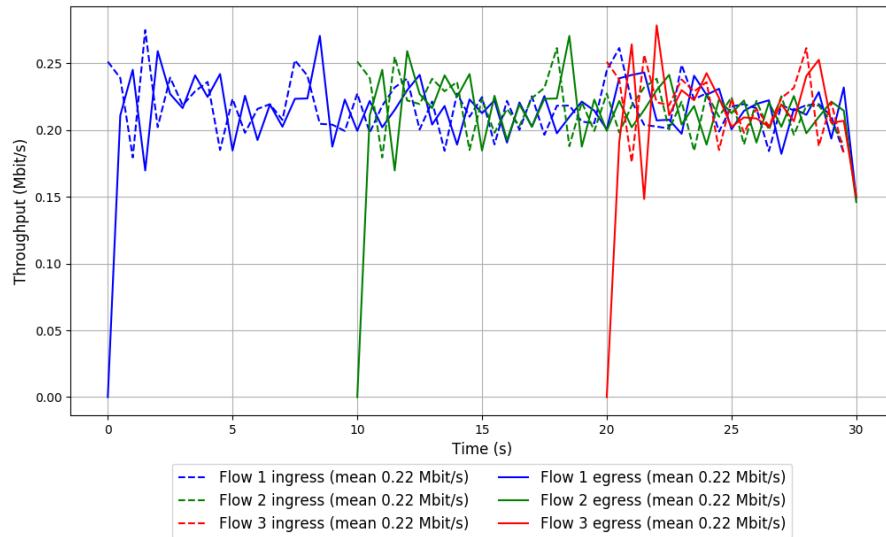


Run 5: Statistics of SCReAM

```
Start at: 2018-06-19 10:32:06
End at: 2018-06-19 10:32:36
Local clock offset: -1.734 ms
Remote clock offset: 4.71 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.128 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.075 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.067 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.164 ms
Loss rate: 1.84%
```

Run 5: Report of SCReAM — Data Link

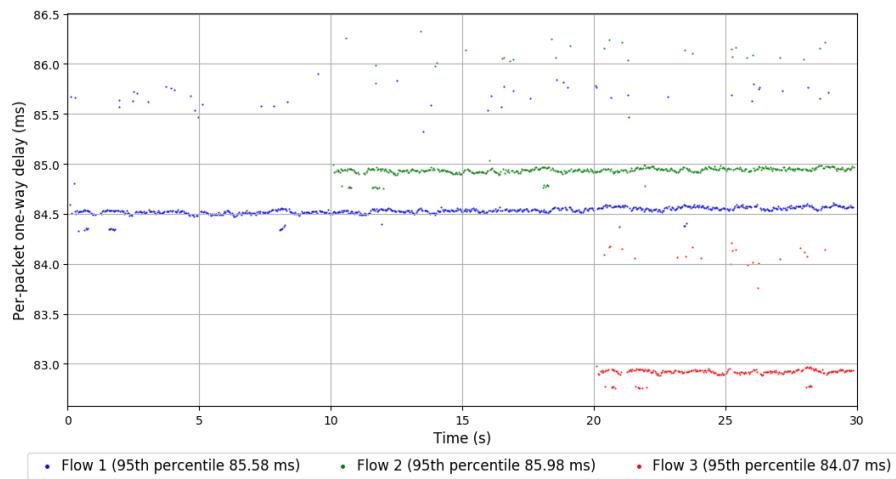
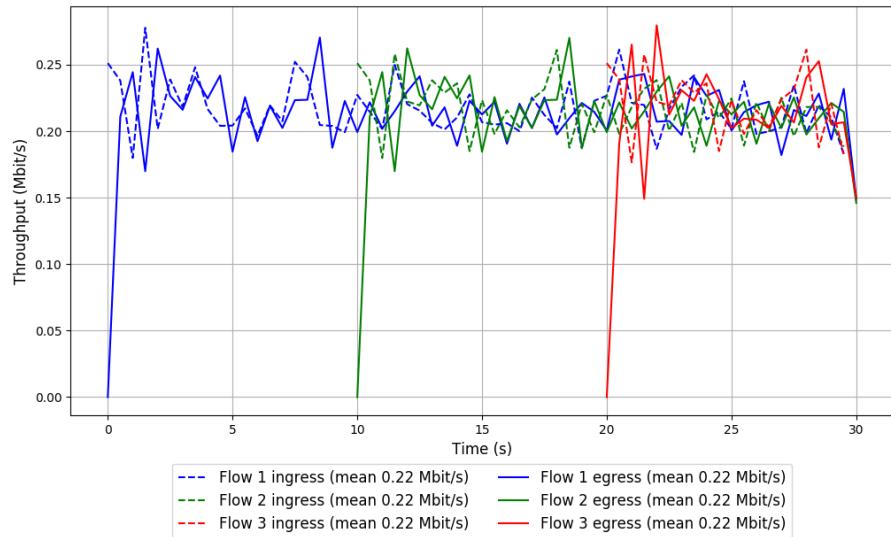


Run 6: Statistics of SCReAM

```
Start at: 2018-06-19 10:52:05
End at: 2018-06-19 10:52:35
Local clock offset: -1.609 ms
Remote clock offset: 8.904 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.995 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.576 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.985 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.066 ms
Loss rate: 1.84%
```

Run 6: Report of SCReAM — Data Link

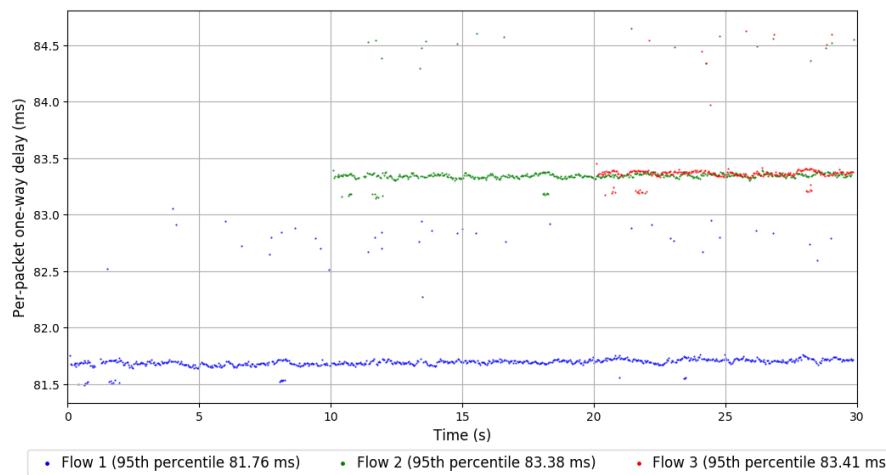
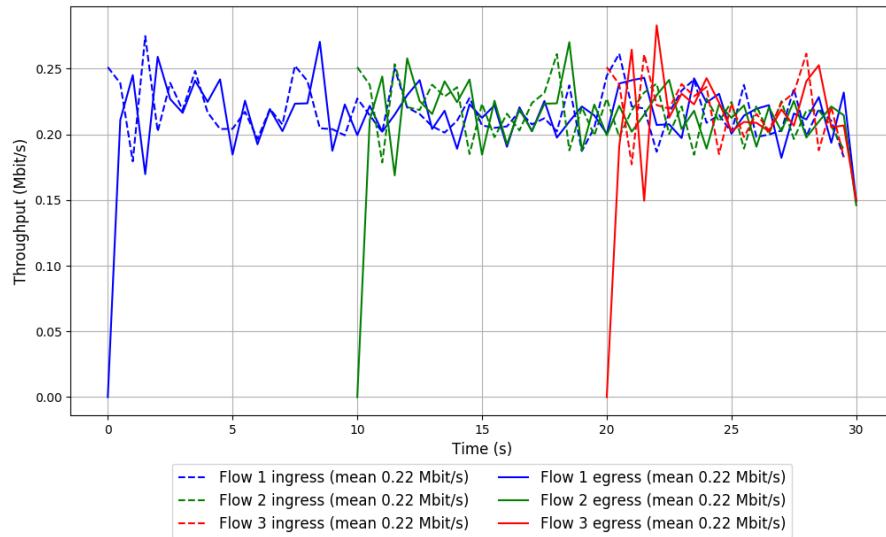


Run 7: Statistics of SCReAM

```
Start at: 2018-06-19 11:11:53
End at: 2018-06-19 11:12:23
Local clock offset: -2.014 ms
Remote clock offset: 12.169 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 83.385 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.760 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.382 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.405 ms
Loss rate: 1.84%
```

Run 7: Report of SCReAM — Data Link

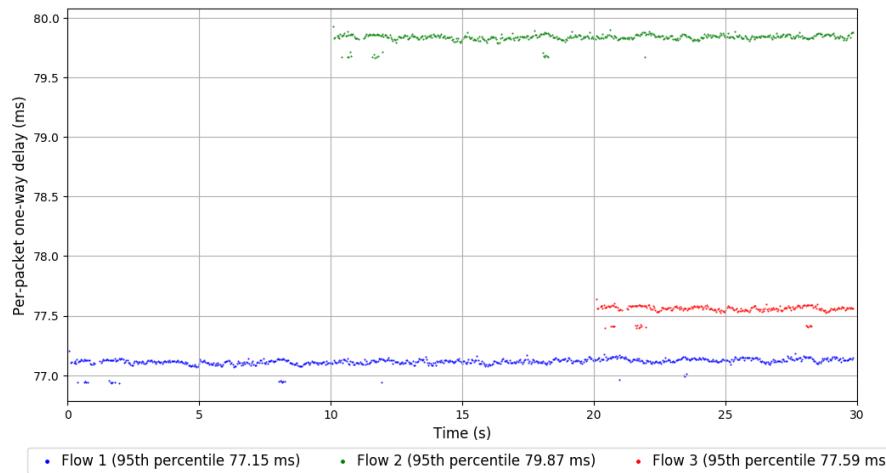
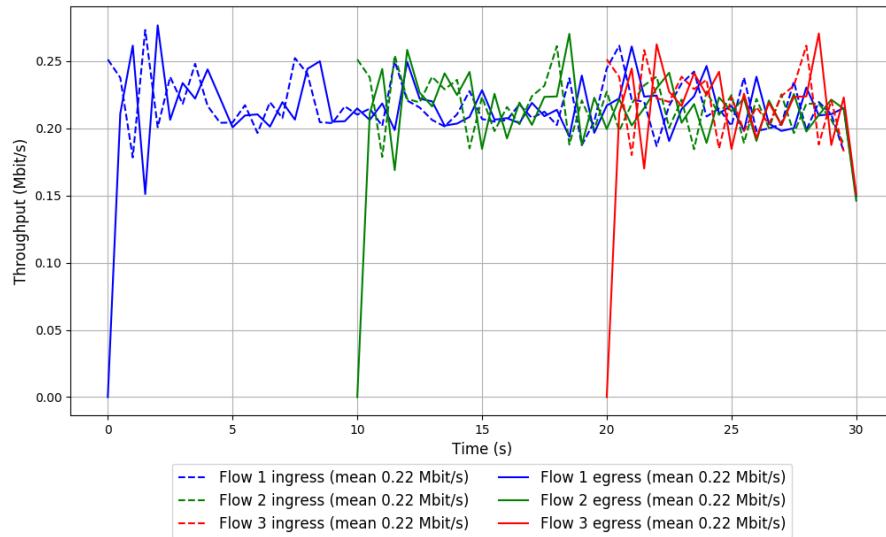


Run 8: Statistics of SCReAM

```
Start at: 2018-06-19 11:31:44
End at: 2018-06-19 11:32:14
Local clock offset: -2.51 ms
Remote clock offset: 17.649 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.858 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.151 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.869 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.589 ms
Loss rate: 1.45%
```

Run 8: Report of SCReAM — Data Link

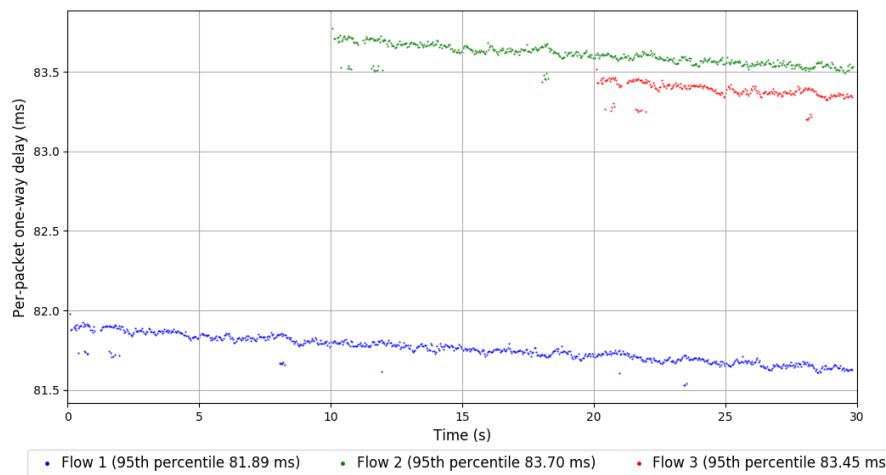
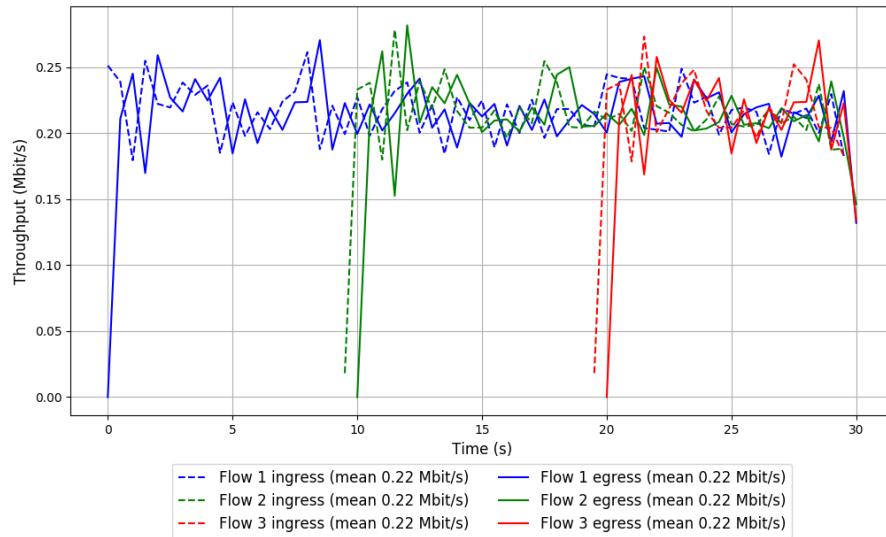


Run 9: Statistics of SCReAM

```
Start at: 2018-06-19 11:51:58
End at: 2018-06-19 11:52:28
Local clock offset: -3.034 ms
Remote clock offset: 9.373 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 83.673 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.886 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.702 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.450 ms
Loss rate: 1.84%
```

Run 9: Report of SCReAM — Data Link

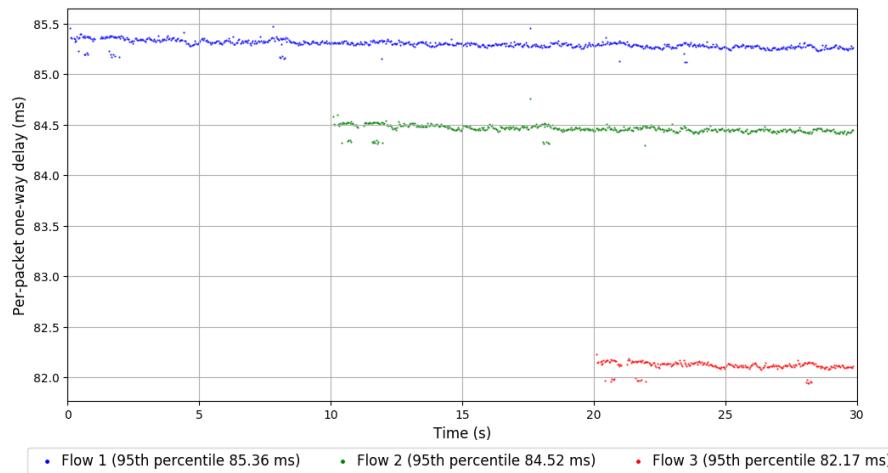
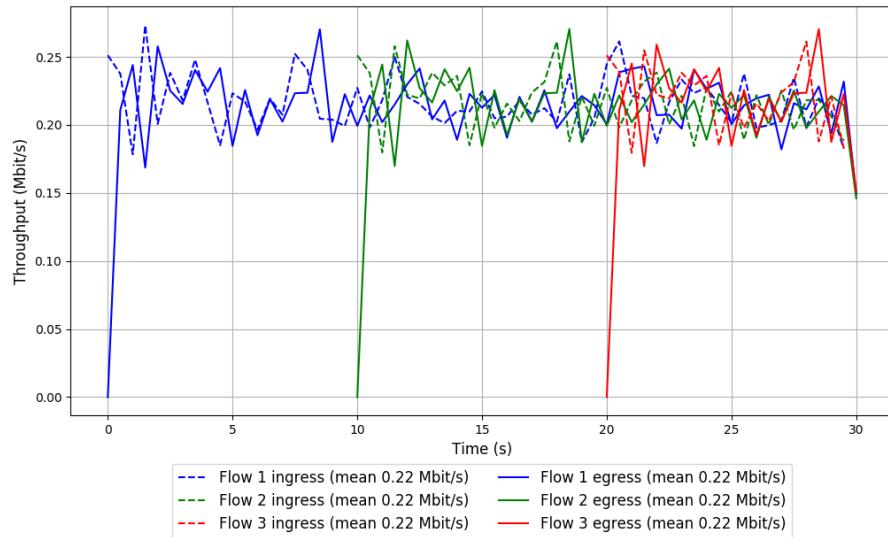


Run 10: Statistics of SCReAM

```
Start at: 2018-06-19 12:12:00
End at: 2018-06-19 12:12:30
Local clock offset: -2.898 ms
Remote clock offset: 2.857 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.351 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.365 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.517 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.167 ms
Loss rate: 1.45%
```

Run 10: Report of SCReAM — Data Link

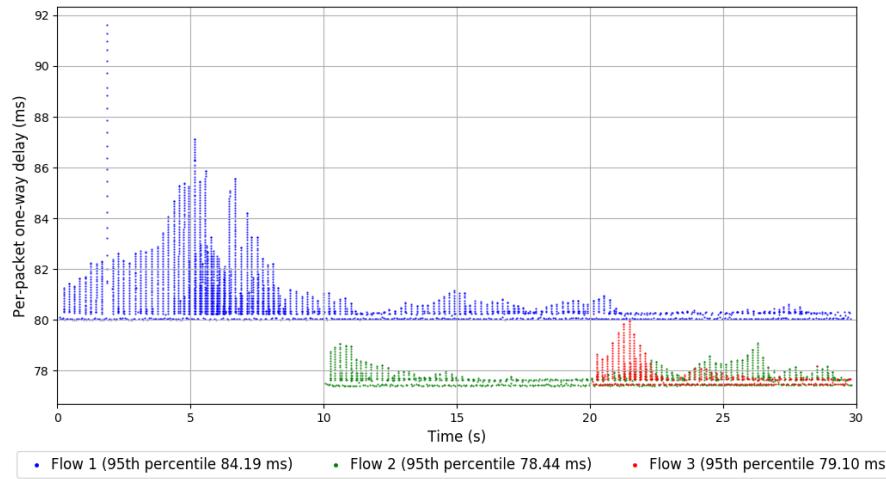
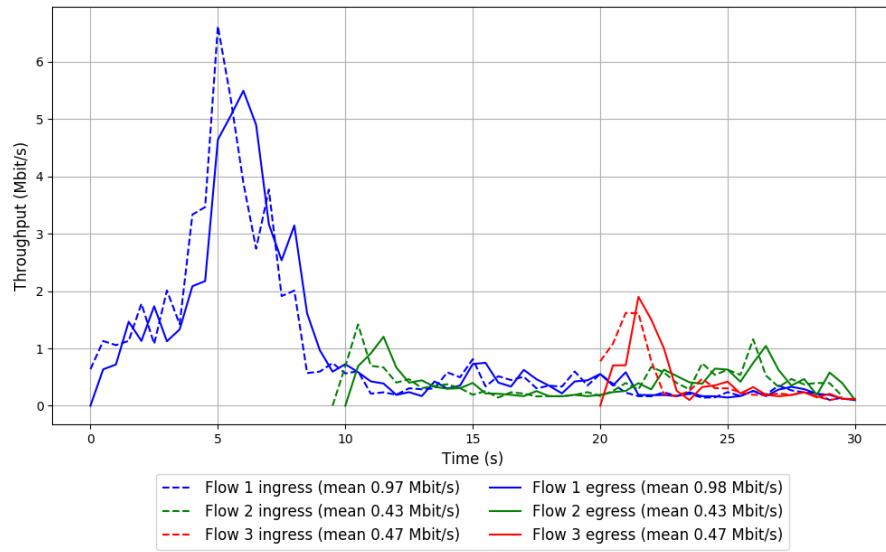


Run 1: Statistics of Sprout

```
Start at: 2018-06-19 09:08:57
End at: 2018-06-19 09:09:27
Local clock offset: -3.034 ms
Remote clock offset: 10.038 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 83.456 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 84.187 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 78.436 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 79.097 ms
Loss rate: 0.51%
```

Run 1: Report of Sprout — Data Link

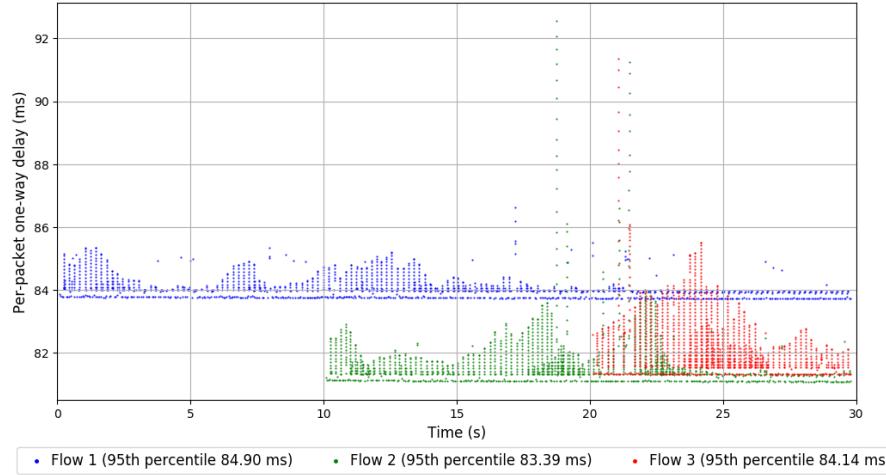
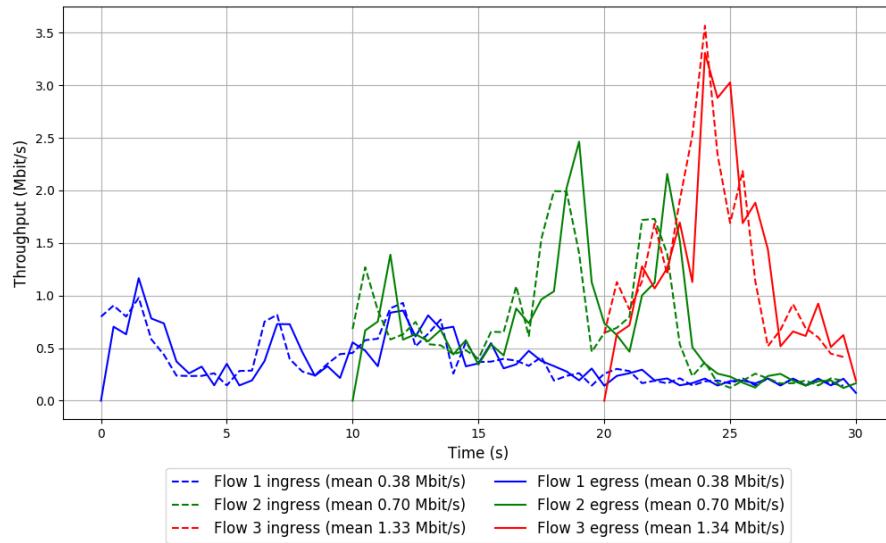


Run 2: Statistics of Sprout

```
Start at: 2018-06-19 09:28:47
End at: 2018-06-19 09:29:17
Local clock offset: -3.525 ms
Remote clock offset: 6.414 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 84.693 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 84.898 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 83.389 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 84.141 ms
Loss rate: 0.88%
```

Run 2: Report of Sprout — Data Link

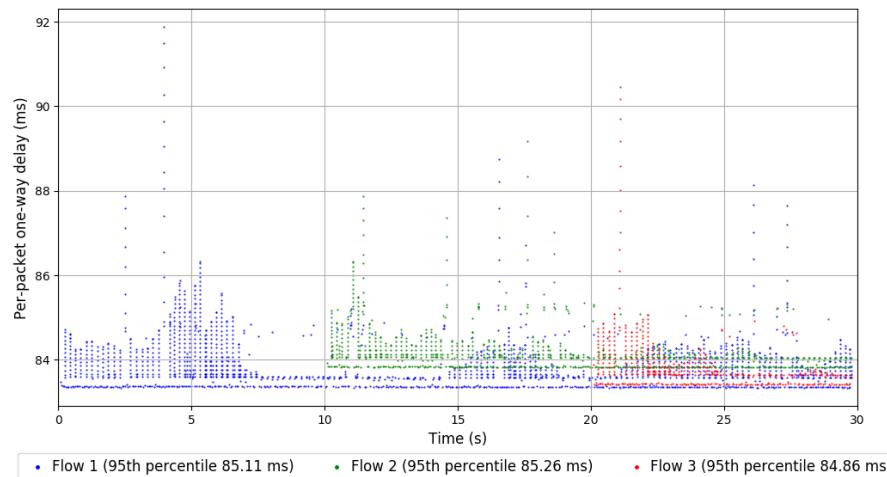
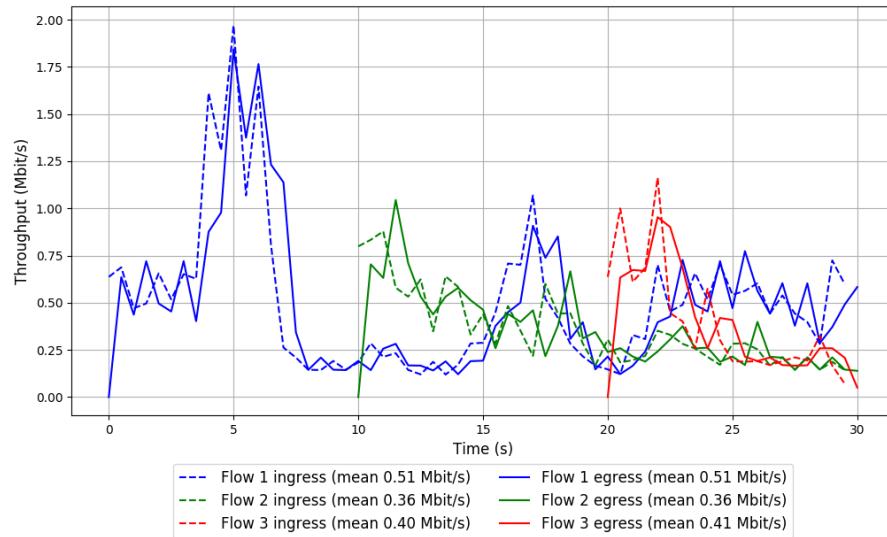


Run 3: Statistics of Sprout

```
Start at: 2018-06-19 09:48:42
End at: 2018-06-19 09:49:12
Local clock offset: -2.019 ms
Remote clock offset: 5.283 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 85.204 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 85.113 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 85.263 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 84.857 ms
Loss rate: 0.59%
```

Run 3: Report of Sprout — Data Link

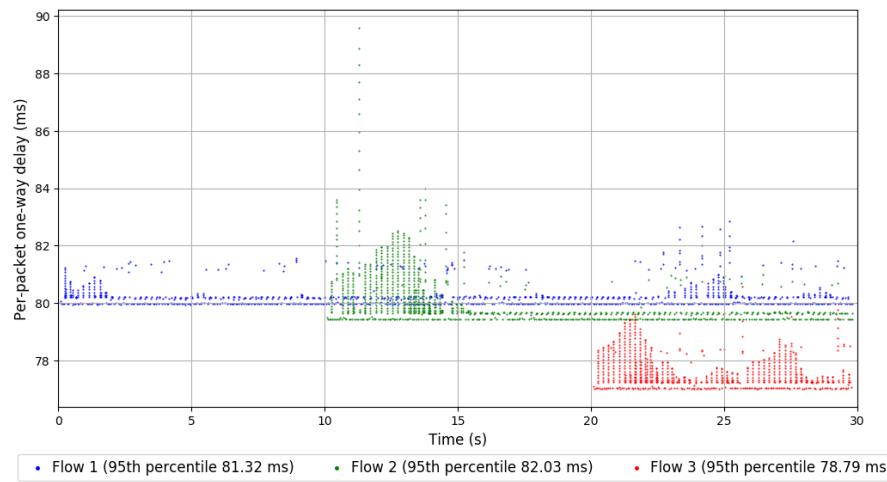
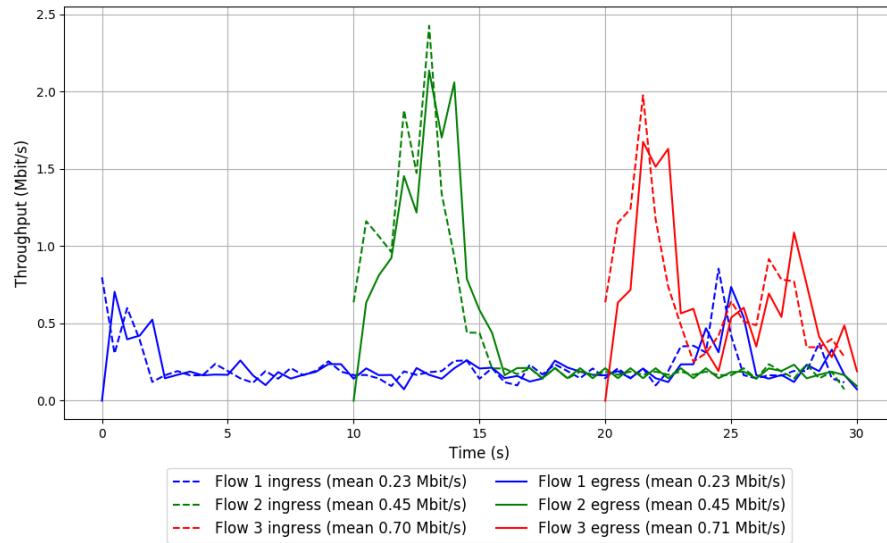


Run 4: Statistics of Sprout

```
Start at: 2018-06-19 10:08:31
End at: 2018-06-19 10:09:01
Local clock offset: -1.767 ms
Remote clock offset: 8.863 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 81.404 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 81.322 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 82.032 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 78.793 ms
Loss rate: 0.68%
```

Run 4: Report of Sprout — Data Link

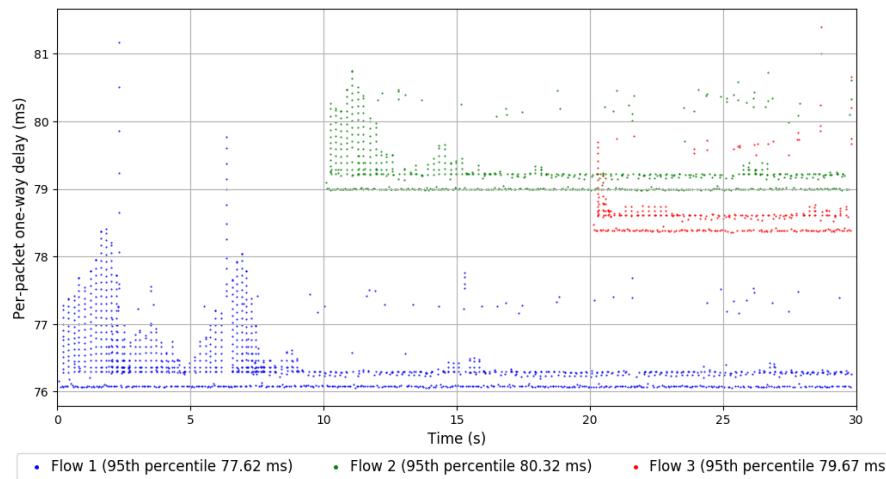
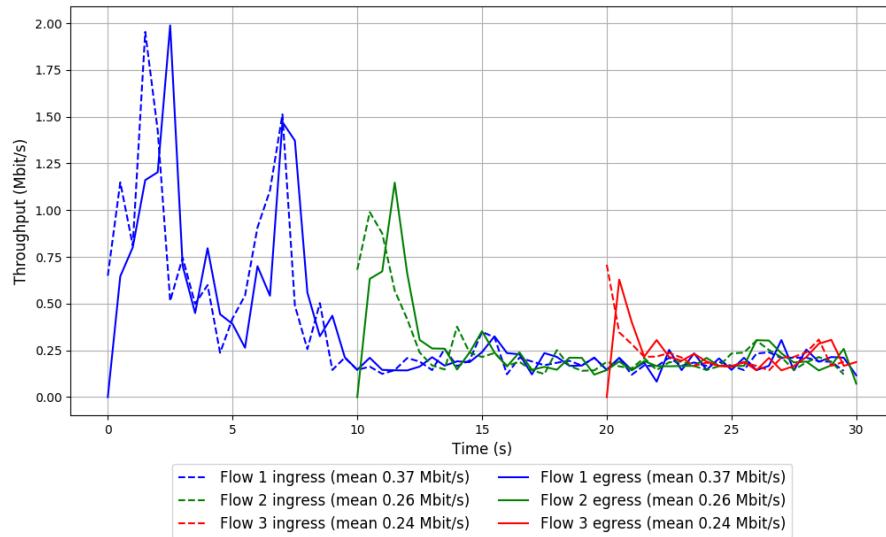


Run 5: Statistics of Sprout

```
Start at: 2018-06-19 10:28:25
End at: 2018-06-19 10:28:55
Local clock offset: -1.753 ms
Remote clock offset: 9.757 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 79.739 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 77.619 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 80.320 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 79.669 ms
Loss rate: 0.10%
```

Run 5: Report of Sprout — Data Link

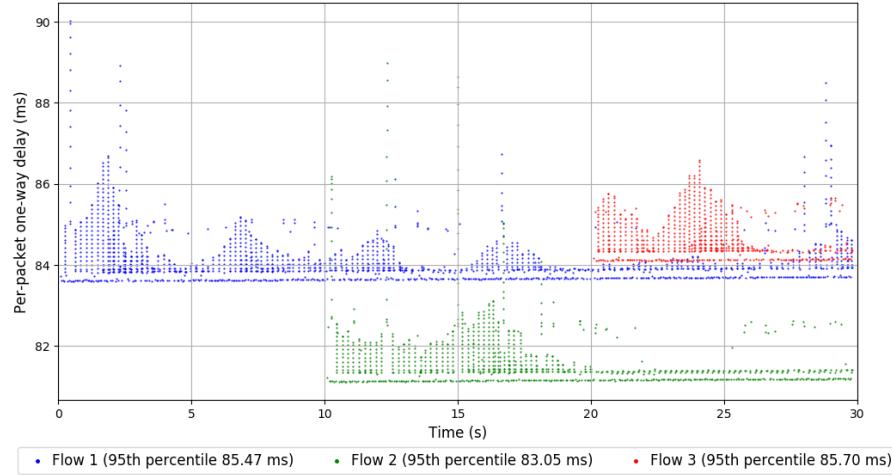
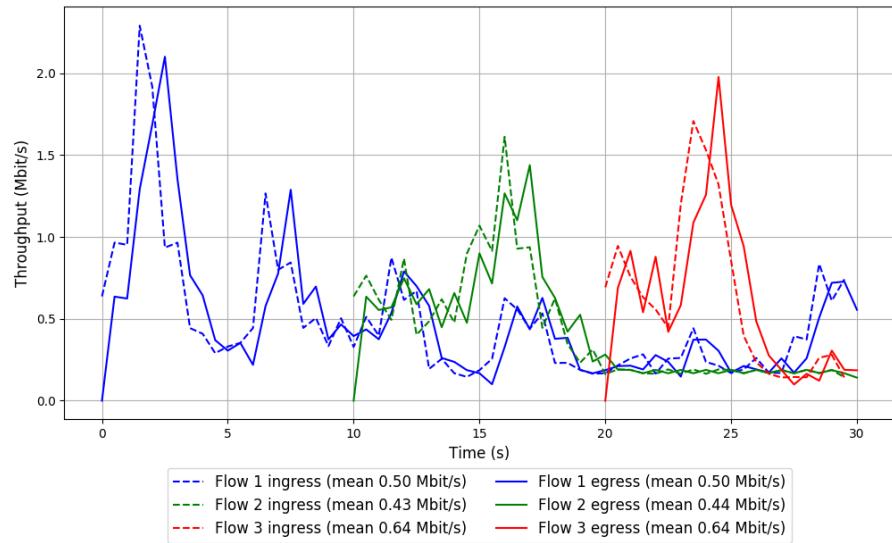


Run 6: Statistics of Sprout

```
Start at: 2018-06-19 10:48:14
End at: 2018-06-19 10:48:44
Local clock offset: -1.585 ms
Remote clock offset: 9.291 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 85.479 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 85.475 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 83.046 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 85.701 ms
Loss rate: 0.39%
```

Run 6: Report of Sprout — Data Link

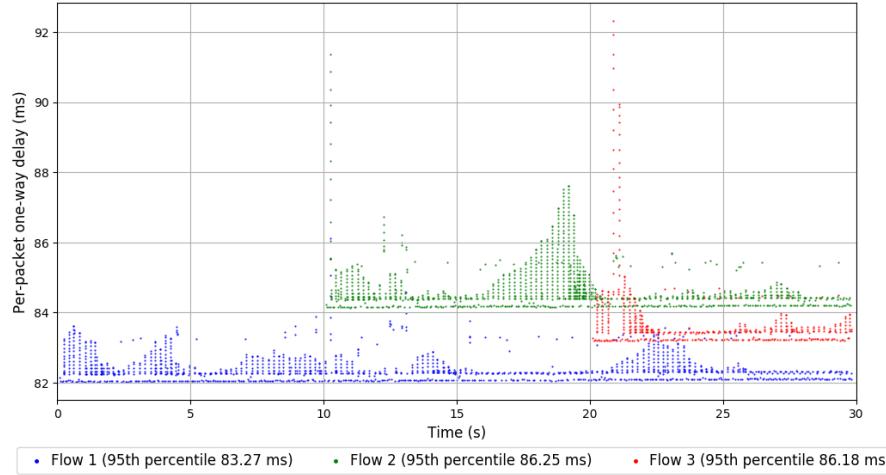
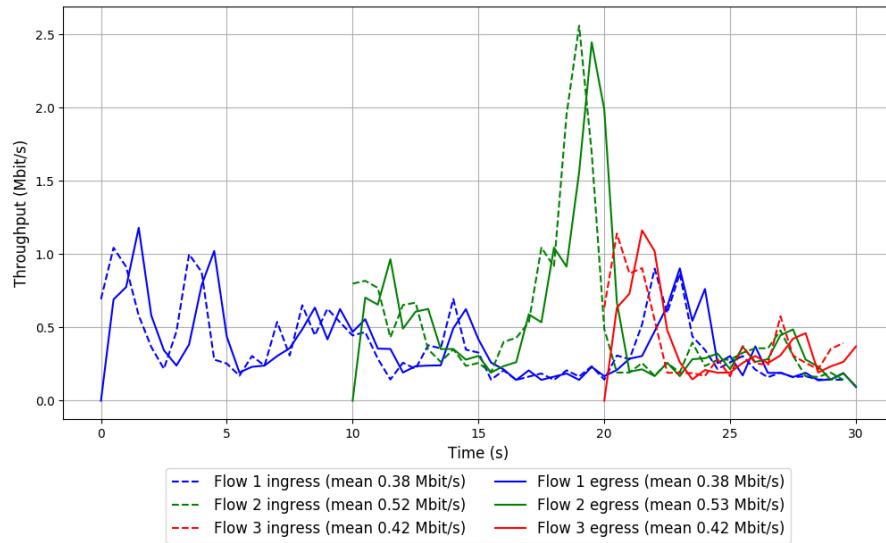


Run 7: Statistics of Sprout

```
Start at: 2018-06-19 11:08:11
End at: 2018-06-19 11:08:41
Local clock offset: -1.795 ms
Remote clock offset: 11.866 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 85.557 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 83.266 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 86.252 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 86.180 ms
Loss rate: 1.94%
```

Run 7: Report of Sprout — Data Link

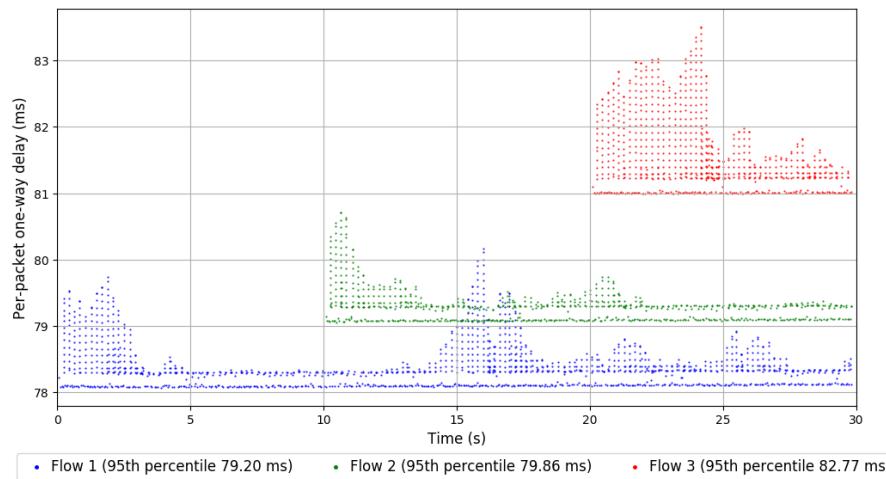
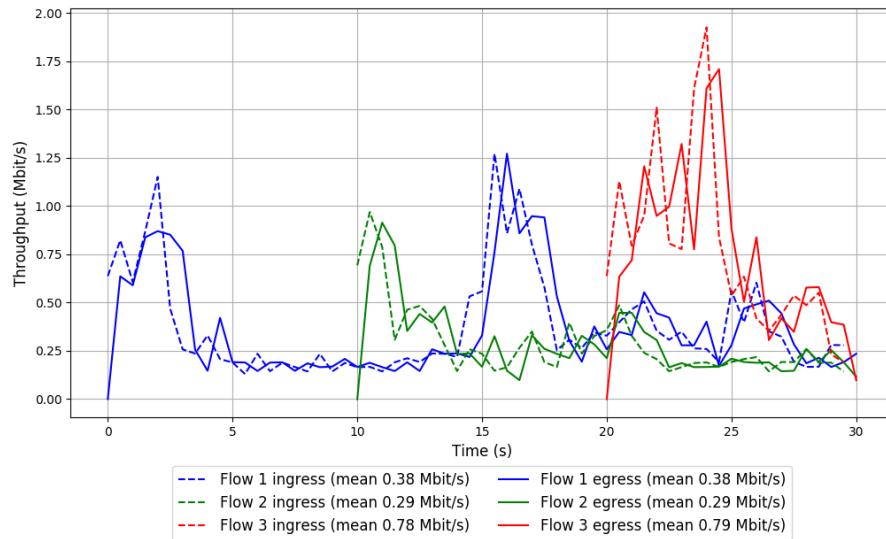


Run 8: Statistics of Sprout

```
Start at: 2018-06-19 11:28:01
End at: 2018-06-19 11:28:31
Local clock offset: -2.394 ms
Remote clock offset: 16.289 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 82.229 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 79.200 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 79.864 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 82.766 ms
Loss rate: 0.62%
```

Run 8: Report of Sprout — Data Link

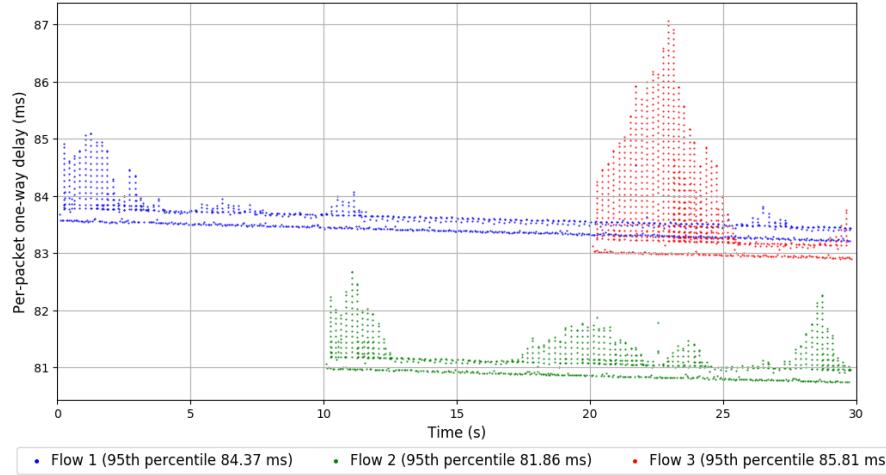
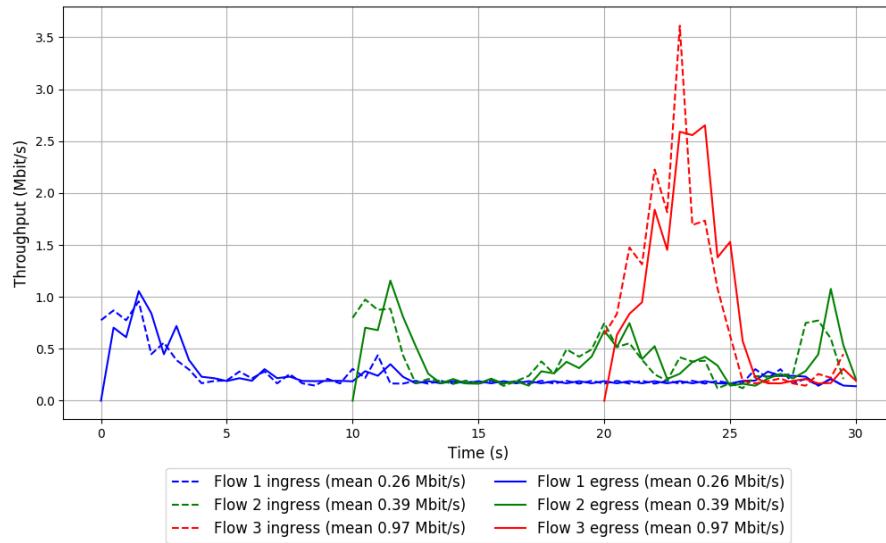


Run 9: Statistics of Sprout

```
Start at: 2018-06-19 11:48:15
End at: 2018-06-19 11:48:45
Local clock offset: -2.979 ms
Remote clock offset: 11.72 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 84.948 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 84.371 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 81.855 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 85.806 ms
Loss rate: 1.36%
```

Run 9: Report of Sprout — Data Link

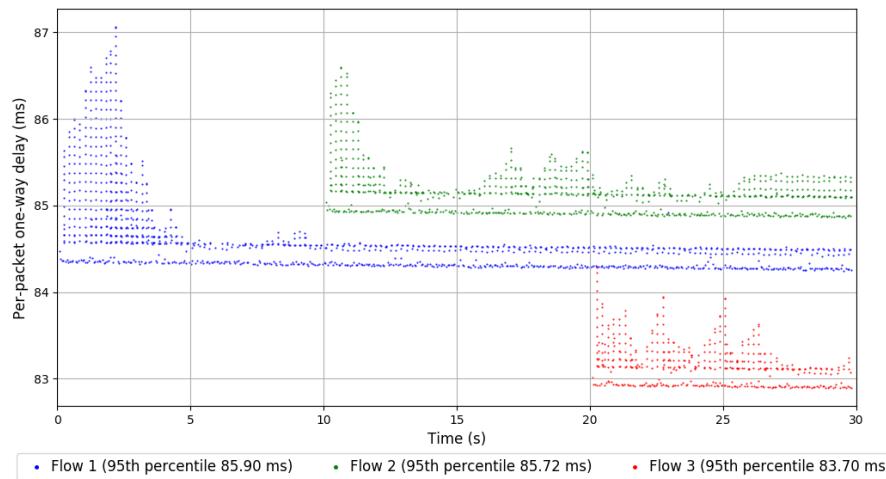
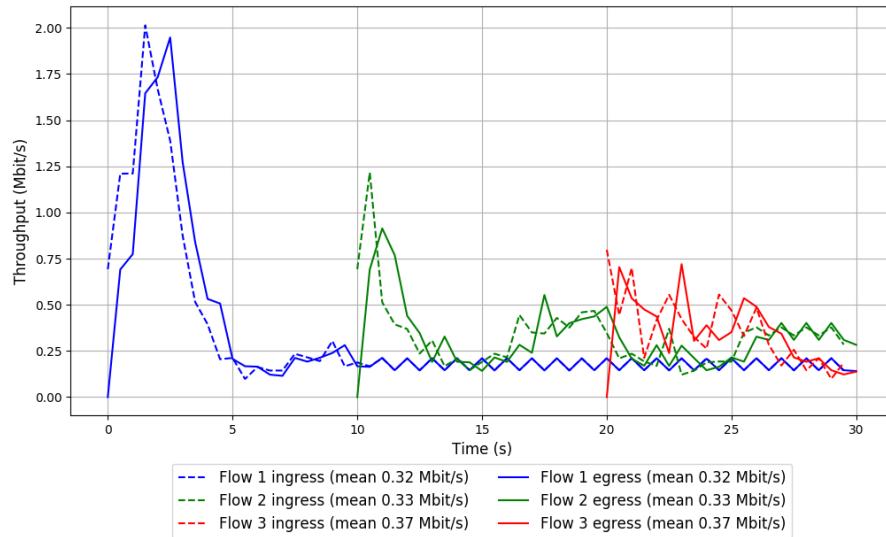


Run 10: Statistics of Sprout

```
Start at: 2018-06-19 12:08:18
End at: 2018-06-19 12:08:48
Local clock offset: -2.988 ms
Remote clock offset: 3.361 ms

# Below is generated by plot.py at 2018-06-19 12:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 85.715 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 85.896 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 85.715 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 83.703 ms
Loss rate: 1.27%
```

Run 10: Report of Sprout — Data Link

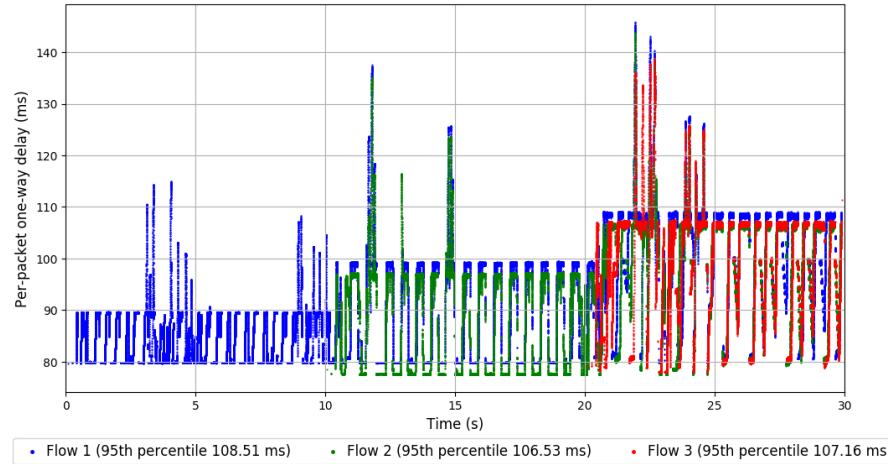
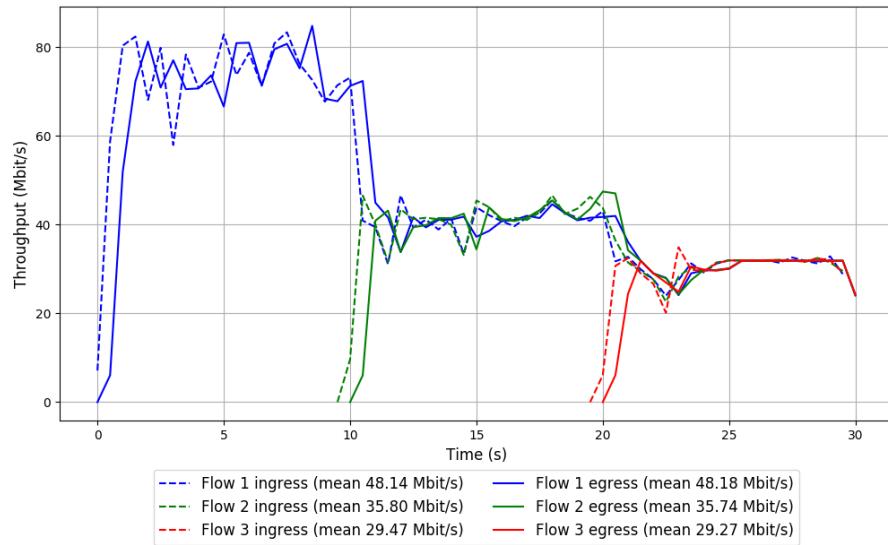


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-06-19 09:10:08
End at: 2018-06-19 09:10:38
Local clock offset: -3.086 ms
Remote clock offset: 10.07 ms

# Below is generated by plot.py at 2018-06-19 12:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.56 Mbit/s
95th percentile per-packet one-way delay: 108.394 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 48.18 Mbit/s
95th percentile per-packet one-way delay: 108.506 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 35.74 Mbit/s
95th percentile per-packet one-way delay: 106.531 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 107.157 ms
Loss rate: 2.23%
```

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

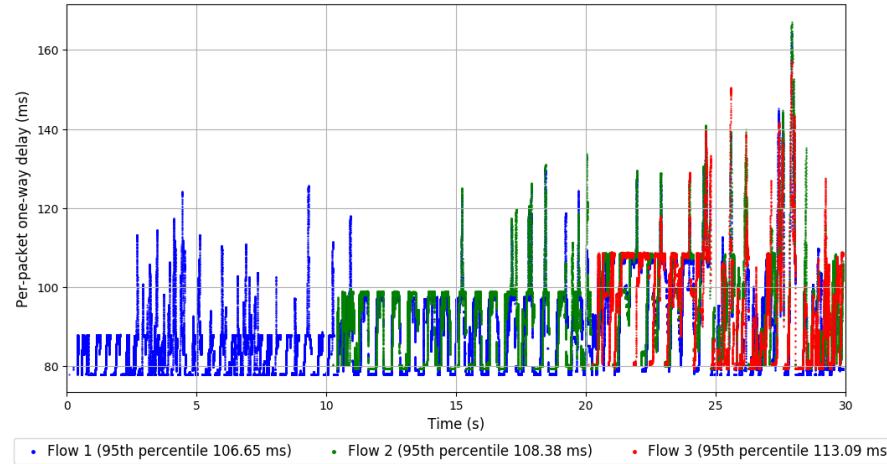
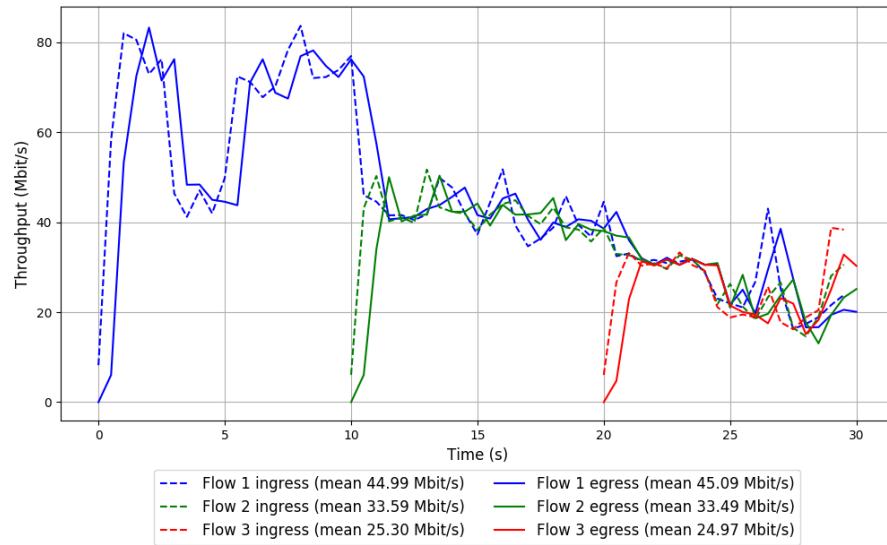


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-06-19 09:29:57
End at: 2018-06-19 09:30:27
Local clock offset: -3.554 ms
Remote clock offset: 10.029 ms

# Below is generated by plot.py at 2018-06-19 12:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.55 Mbit/s
95th percentile per-packet one-way delay: 108.248 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 106.652 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 108.380 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 113.089 ms
Loss rate: 2.90%
```

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

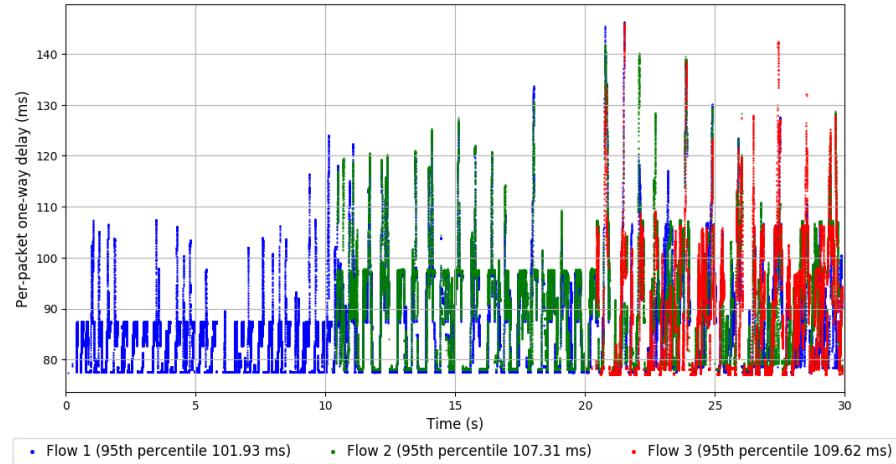
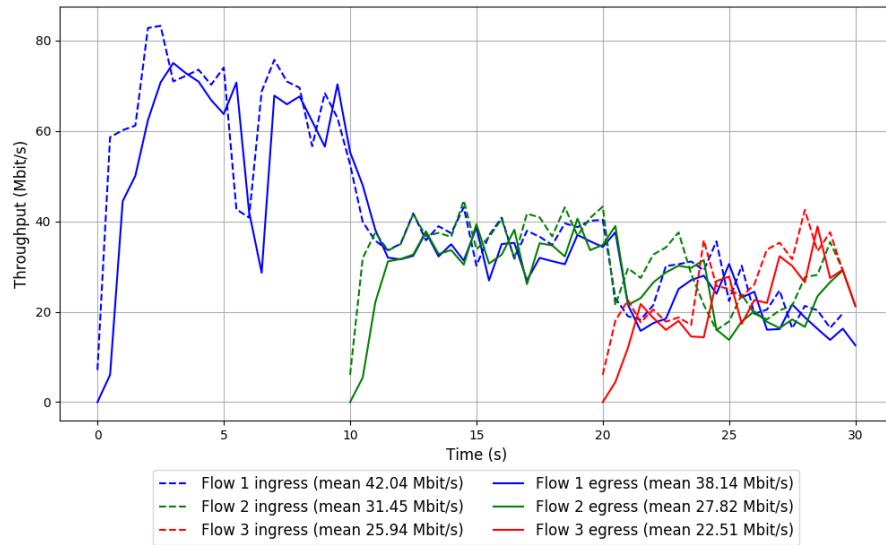


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-06-19 09:49:52
End at: 2018-06-19 09:50:22
Local clock offset: -2.039 ms
Remote clock offset: 8.985 ms

# Below is generated by plot.py at 2018-06-19 12:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.03 Mbit/s
95th percentile per-packet one-way delay: 105.998 ms
Loss rate: 11.07%
-- Flow 1:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 101.928 ms
Loss rate: 9.74%
-- Flow 2:
Average throughput: 27.82 Mbit/s
95th percentile per-packet one-way delay: 107.315 ms
Loss rate: 12.28%
-- Flow 3:
Average throughput: 22.51 Mbit/s
95th percentile per-packet one-way delay: 109.624 ms
Loss rate: 14.63%
```

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

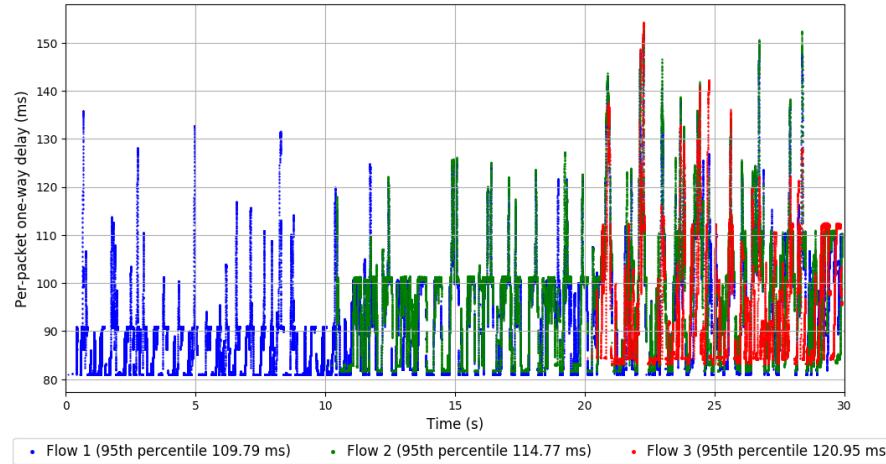
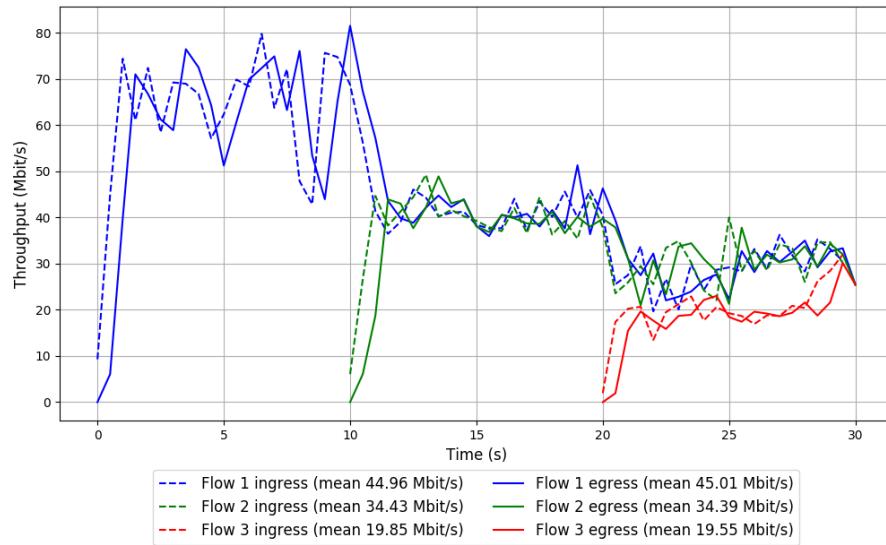


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-06-19 10:09:41
End at: 2018-06-19 10:10:11
Local clock offset: -1.716 ms
Remote clock offset: 4.892 ms

# Below is generated by plot.py at 2018-06-19 12:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.28 Mbit/s
95th percentile per-packet one-way delay: 111.908 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 45.01 Mbit/s
95th percentile per-packet one-way delay: 109.791 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 34.39 Mbit/s
95th percentile per-packet one-way delay: 114.766 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 19.55 Mbit/s
95th percentile per-packet one-way delay: 120.954 ms
Loss rate: 3.13%
```

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

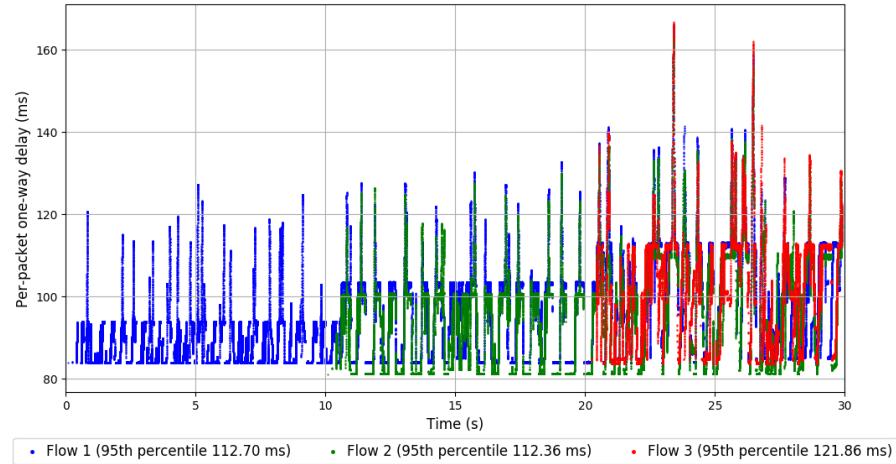
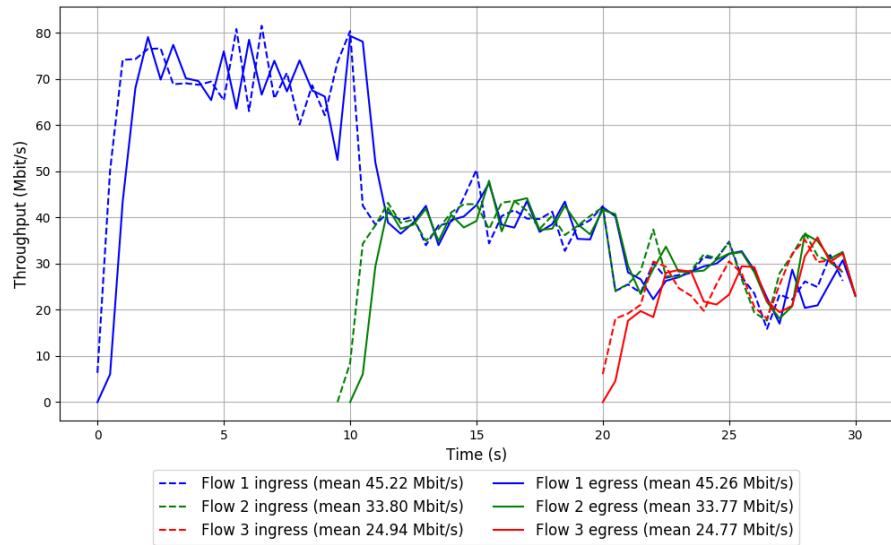


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-06-19 10:29:35
End at: 2018-06-19 10:30:05
Local clock offset: -1.822 ms
Remote clock offset: 4.693 ms

# Below is generated by plot.py at 2018-06-19 12:37:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.84 Mbit/s
95th percentile per-packet one-way delay: 112.781 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 45.26 Mbit/s
95th percentile per-packet one-way delay: 112.700 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 112.364 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 121.862 ms
Loss rate: 2.23%
```

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

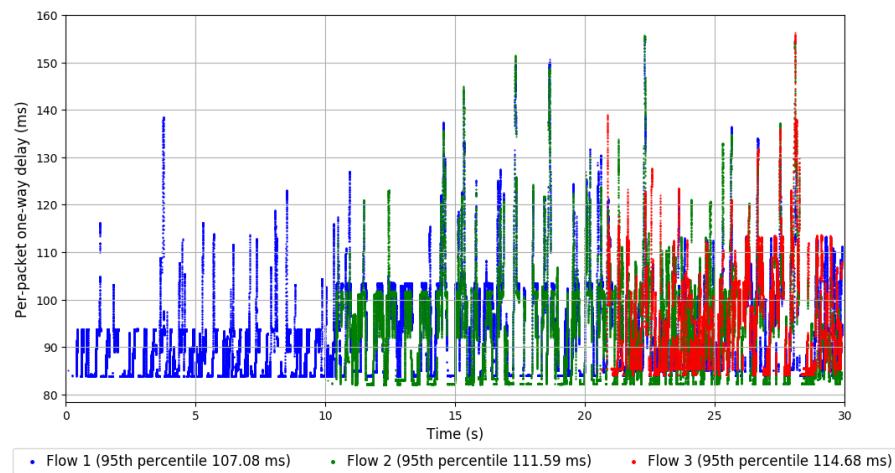
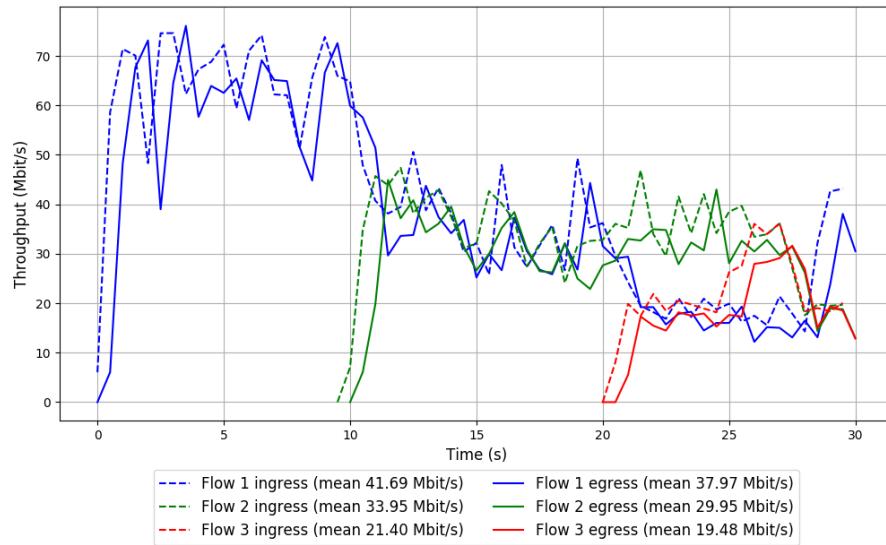


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-06-19 10:49:25
End at: 2018-06-19 10:49:55
Local clock offset: -1.579 ms
Remote clock offset: 9.616 ms

# Below is generated by plot.py at 2018-06-19 12:37:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.01 Mbit/s
95th percentile per-packet one-way delay: 111.005 ms
Loss rate: 10.89%
-- Flow 1:
Average throughput: 37.97 Mbit/s
95th percentile per-packet one-way delay: 107.082 ms
Loss rate: 9.43%
-- Flow 2:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 111.588 ms
Loss rate: 12.56%
-- Flow 3:
Average throughput: 19.48 Mbit/s
95th percentile per-packet one-way delay: 114.681 ms
Loss rate: 14.15%
```

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

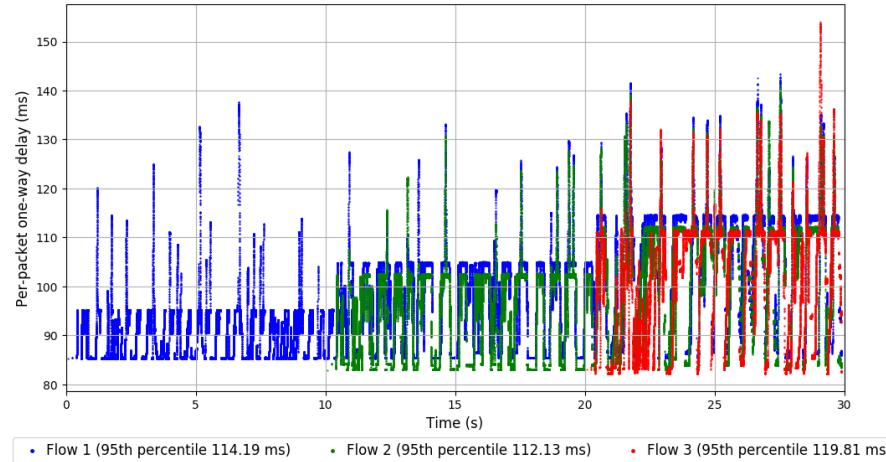
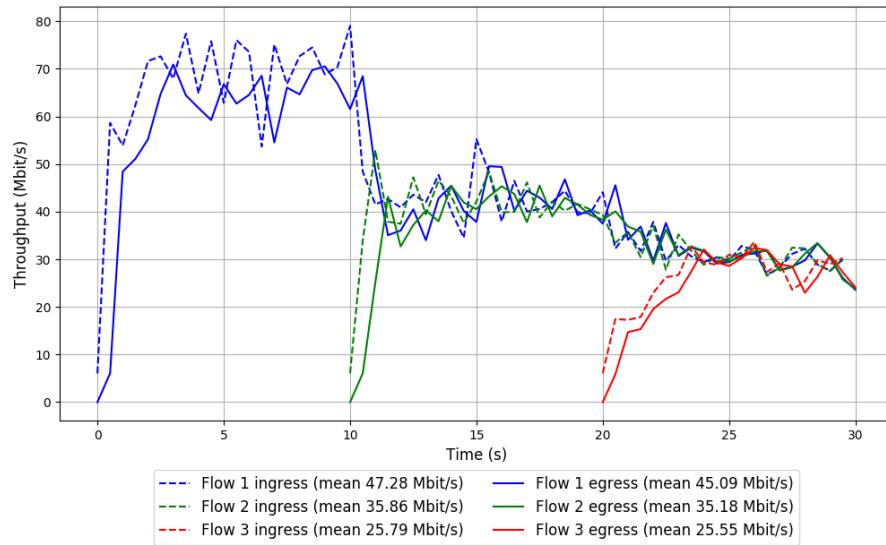


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-06-19 11:09:22
End at: 2018-06-19 11:09:52
Local clock offset: -1.866 ms
Remote clock offset: 10.94 ms

# Below is generated by plot.py at 2018-06-19 12:38:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 114.183 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 114.195 ms
Loss rate: 5.14%
-- Flow 2:
Average throughput: 35.18 Mbit/s
95th percentile per-packet one-way delay: 112.128 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 25.55 Mbit/s
95th percentile per-packet one-way delay: 119.805 ms
Loss rate: 2.68%
```

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

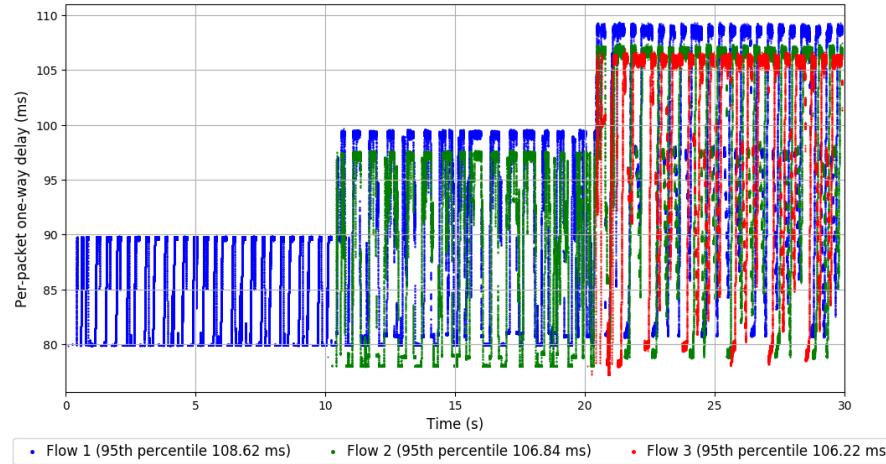
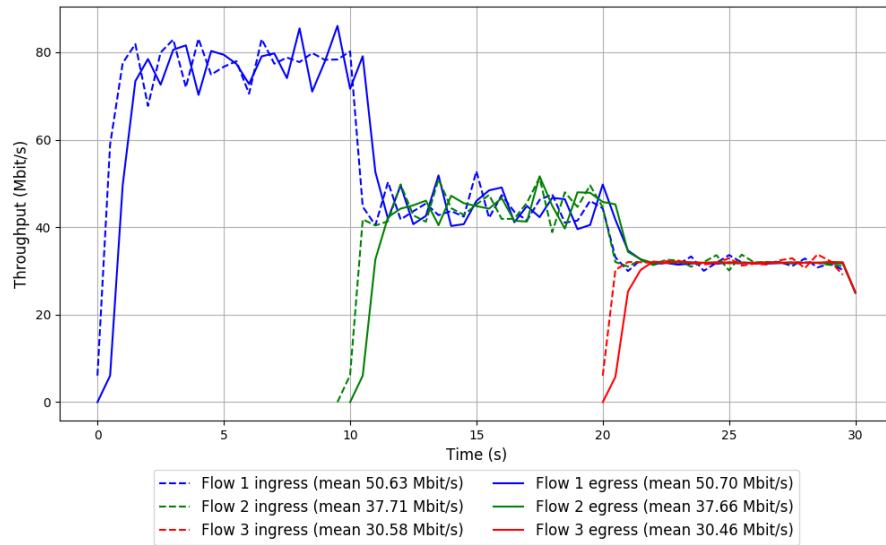


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-06-19 11:29:12
End at: 2018-06-19 11:29:42
Local clock offset: -2.474 ms
Remote clock offset: 17.576 ms

# Below is generated by plot.py at 2018-06-19 12:38:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.75 Mbit/s
95th percentile per-packet one-way delay: 108.295 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 50.70 Mbit/s
95th percentile per-packet one-way delay: 108.619 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 106.844 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 106.223 ms
Loss rate: 2.03%
```

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

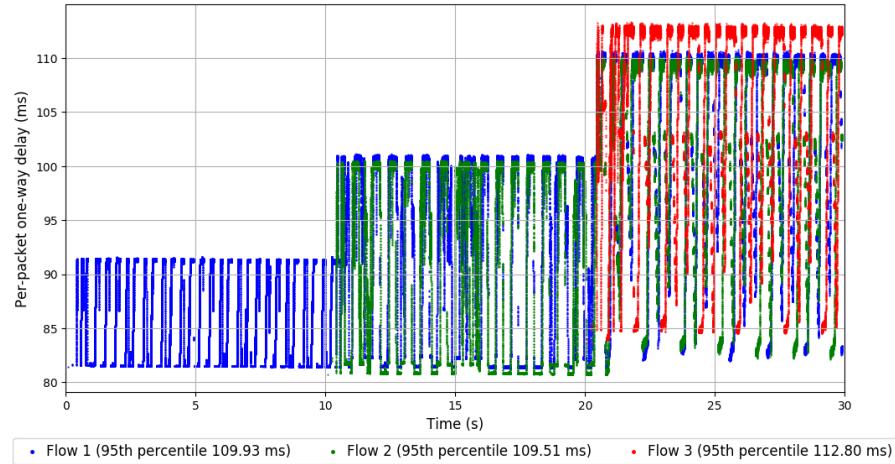
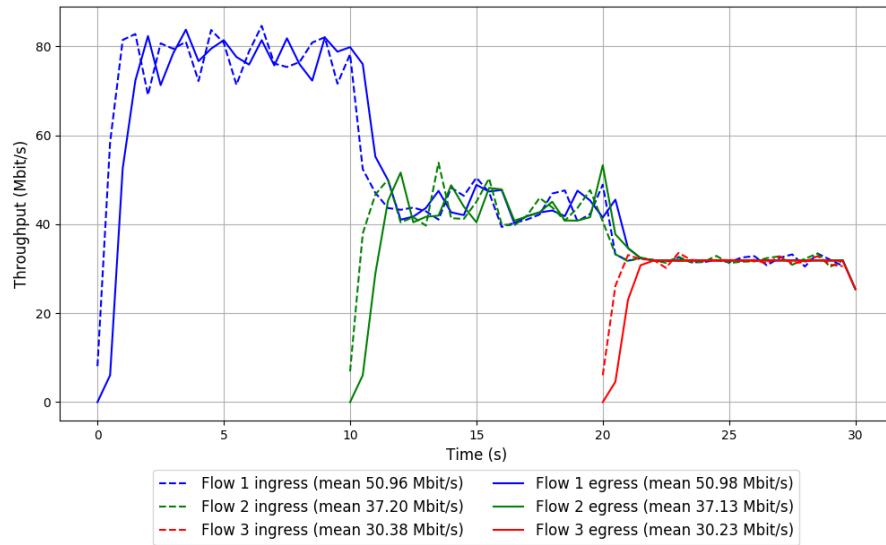


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-06-19 11:49:26
End at: 2018-06-19 11:49:56
Local clock offset: -2.987 ms
Remote clock offset: 10.76 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.59 Mbit/s
95th percentile per-packet one-way delay: 112.094 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 109.926 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 109.513 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 112.801 ms
Loss rate: 2.14%
```

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

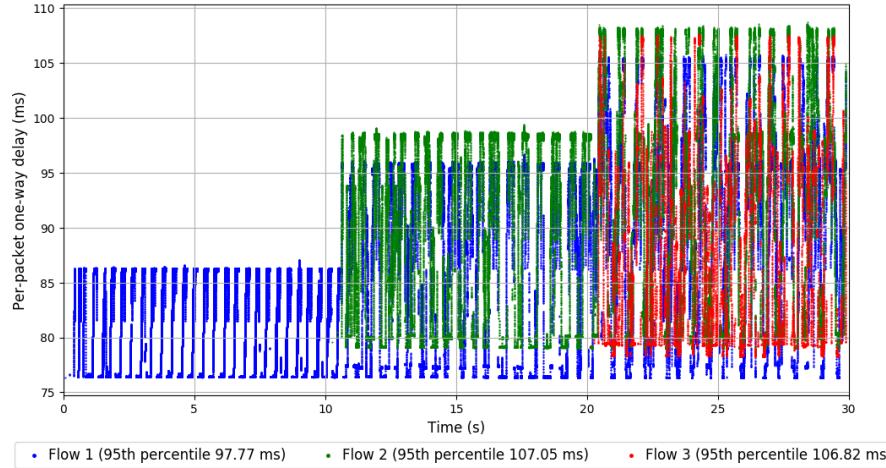
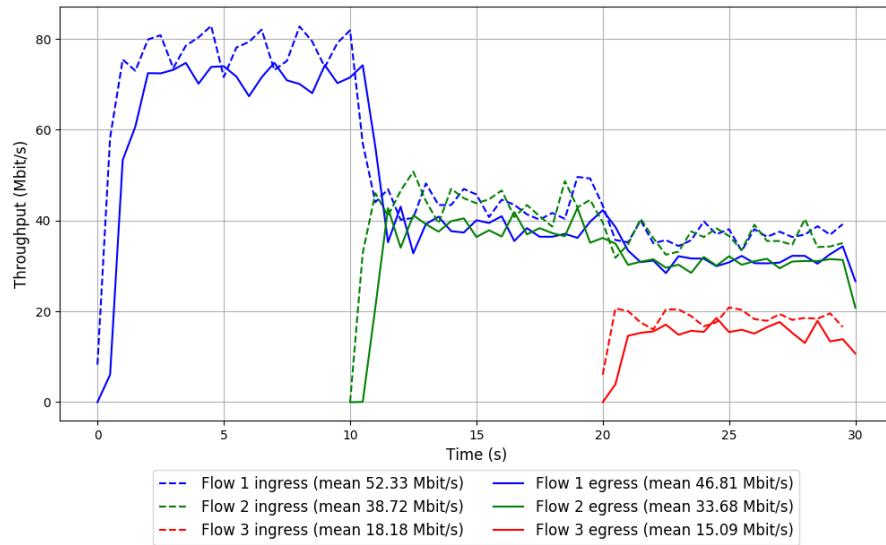


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-06-19 12:09:28
End at: 2018-06-19 12:09:58
Local clock offset: -2.961 ms
Remote clock offset: 9.396 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.93 Mbit/s
95th percentile per-packet one-way delay: 102.822 ms
Loss rate: 12.67%
-- Flow 1:
Average throughput: 46.81 Mbit/s
95th percentile per-packet one-way delay: 97.766 ms
Loss rate: 11.06%
-- Flow 2:
Average throughput: 33.68 Mbit/s
95th percentile per-packet one-way delay: 107.052 ms
Loss rate: 14.62%
-- Flow 3:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 106.824 ms
Loss rate: 18.37%
```

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

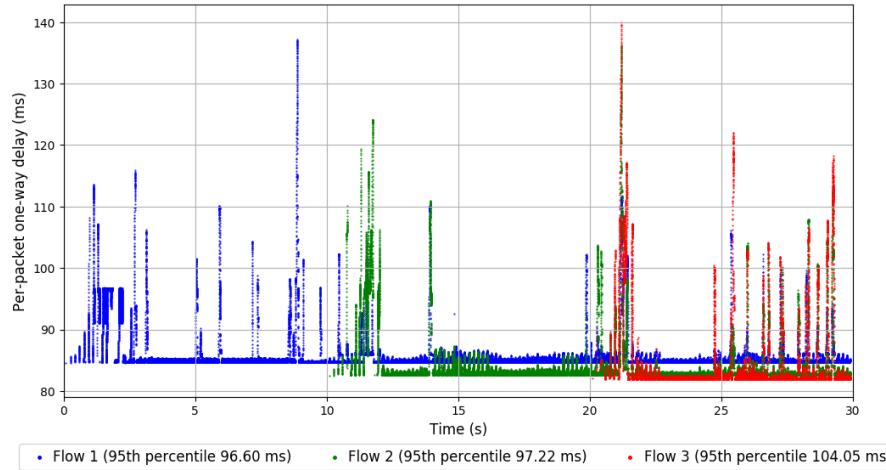
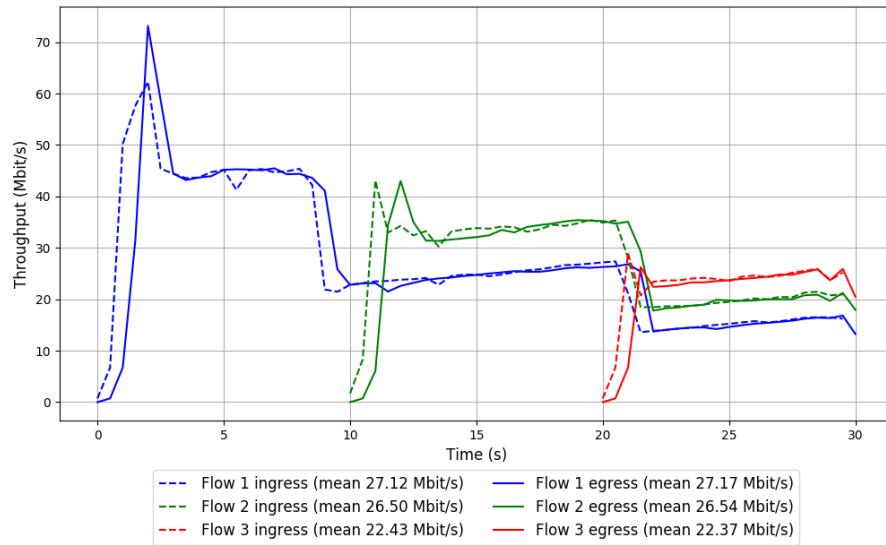


Run 1: Statistics of TCP Vegas

```
Start at: 2018-06-19 09:17:36
End at: 2018-06-19 09:18:06
Local clock offset: -3.372 ms
Remote clock offset: 5.169 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.15 Mbit/s
95th percentile per-packet one-way delay: 96.689 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 96.600 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 26.54 Mbit/s
95th percentile per-packet one-way delay: 97.221 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 22.37 Mbit/s
95th percentile per-packet one-way delay: 104.053 ms
Loss rate: 1.90%
```

Run 1: Report of TCP Vegas — Data Link

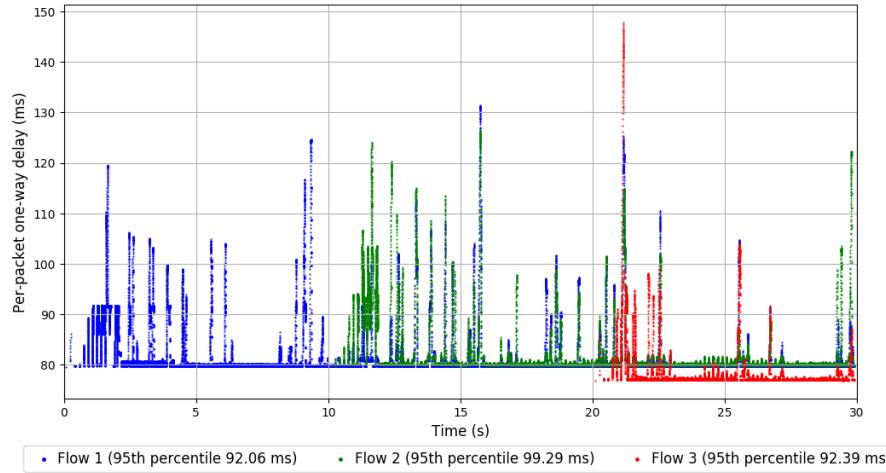
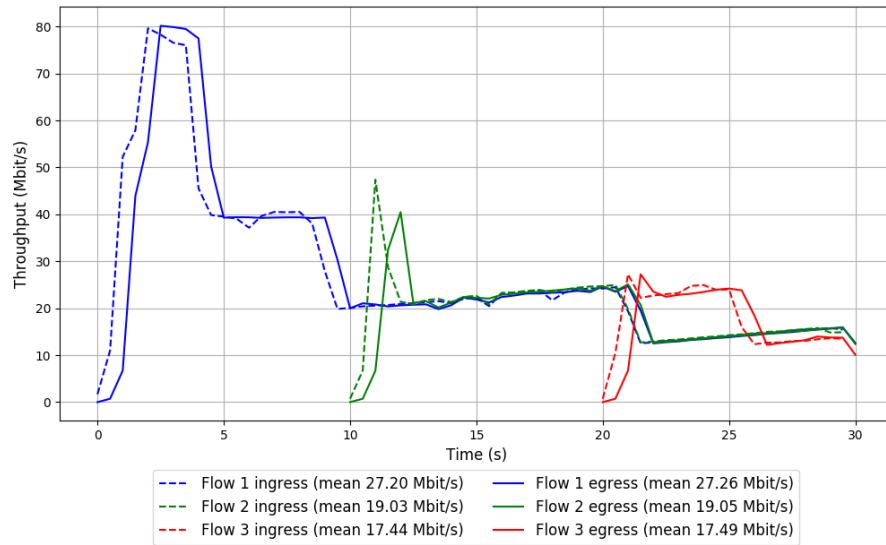


Run 2: Statistics of TCP Vegas

```
Start at: 2018-06-19 09:37:23
End at: 2018-06-19 09:37:53
Local clock offset: -2.986 ms
Remote clock offset: 9.432 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.66 Mbit/s
95th percentile per-packet one-way delay: 94.854 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 27.26 Mbit/s
95th percentile per-packet one-way delay: 92.055 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 19.05 Mbit/s
95th percentile per-packet one-way delay: 99.286 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 17.49 Mbit/s
95th percentile per-packet one-way delay: 92.386 ms
Loss rate: 1.31%
```

Run 2: Report of TCP Vegas — Data Link

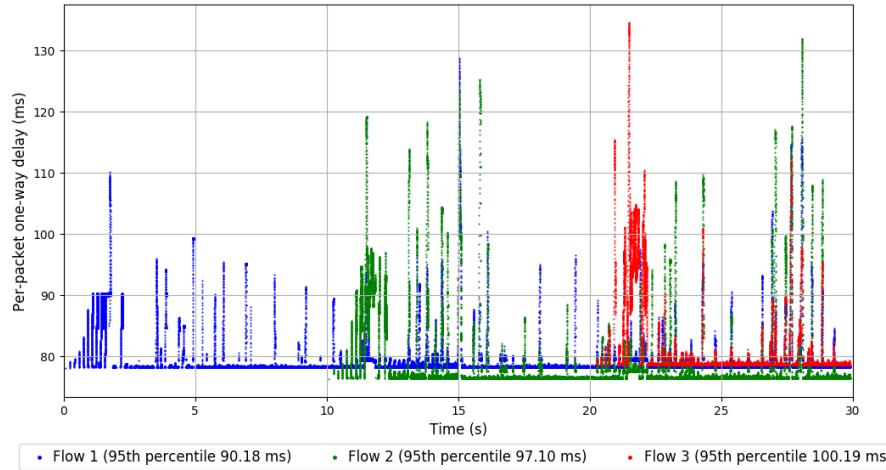
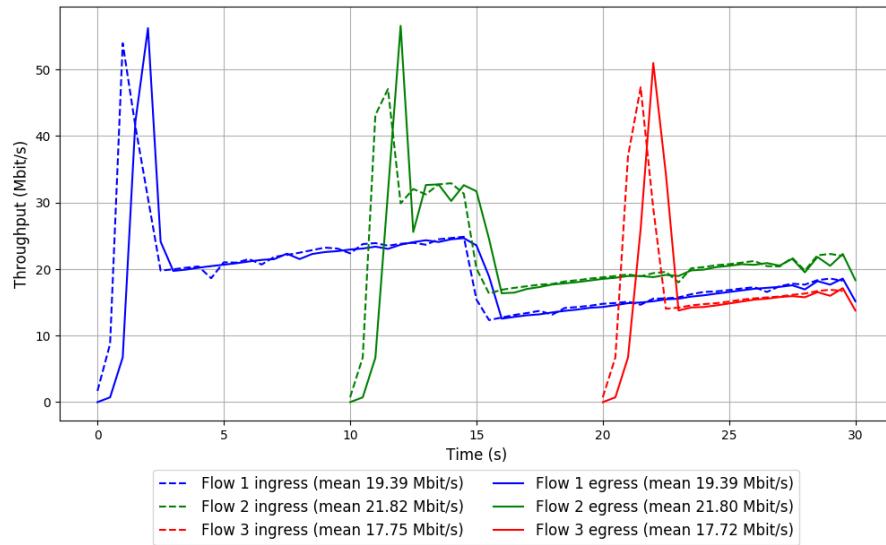


Run 3: Statistics of TCP Vegas

```
Start at: 2018-06-19 09:57:21
End at: 2018-06-19 09:57:51
Local clock offset: -1.79 ms
Remote clock offset: 10.147 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 94.952 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 19.39 Mbit/s
95th percentile per-packet one-way delay: 90.180 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 21.80 Mbit/s
95th percentile per-packet one-way delay: 97.098 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 17.72 Mbit/s
95th percentile per-packet one-way delay: 100.188 ms
Loss rate: 1.80%
```

Run 3: Report of TCP Vegas — Data Link

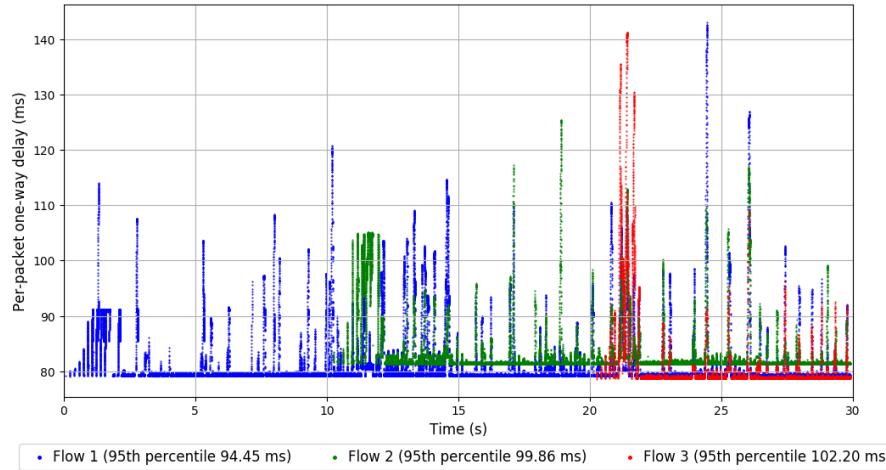
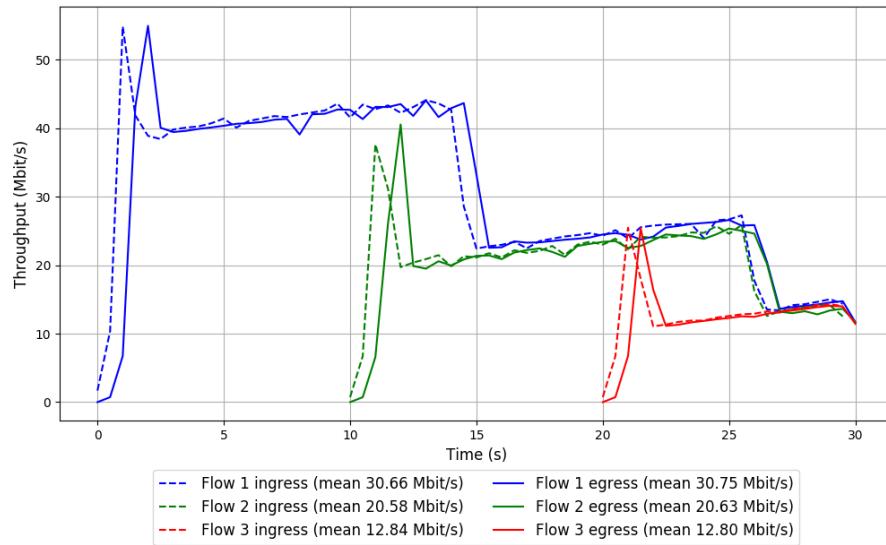


Run 4: Statistics of TCP Vegas

```
Start at: 2018-06-19 10:17:09
End at: 2018-06-19 10:17:39
Local clock offset: -1.798 ms
Remote clock offset: 7.601 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.65 Mbit/s
95th percentile per-packet one-way delay: 97.042 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 94.451 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 20.63 Mbit/s
95th percentile per-packet one-way delay: 99.863 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 102.199 ms
Loss rate: 1.87%
```

Run 4: Report of TCP Vegas — Data Link

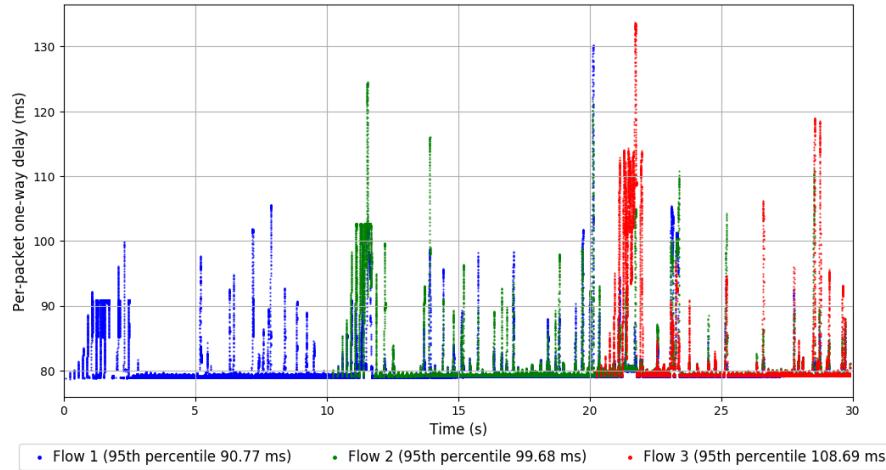
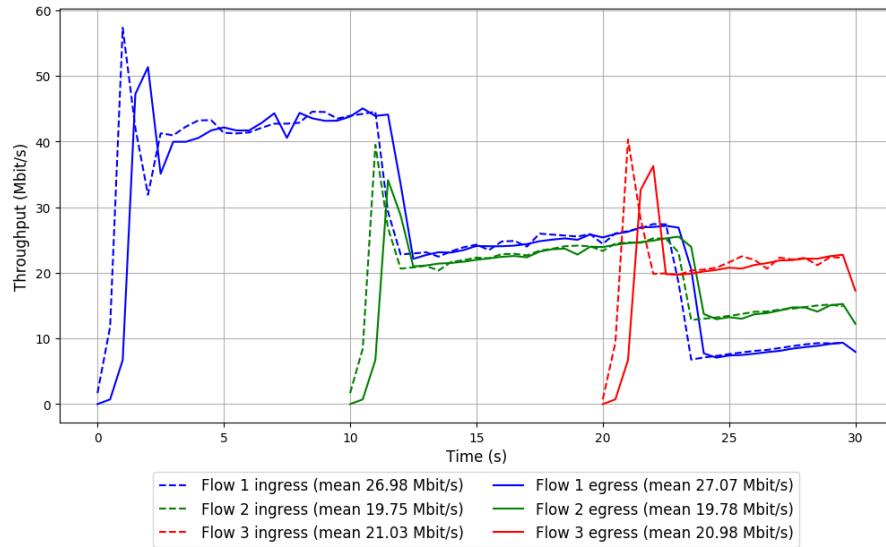


Run 5: Statistics of TCP Vegas

```
Start at: 2018-06-19 10:37:02
End at: 2018-06-19 10:37:32
Local clock offset: -1.712 ms
Remote clock offset: 7.621 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.11 Mbit/s
95th percentile per-packet one-way delay: 96.168 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 27.07 Mbit/s
95th percentile per-packet one-way delay: 90.766 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 99.680 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 20.98 Mbit/s
95th percentile per-packet one-way delay: 108.695 ms
Loss rate: 1.83%
```

Run 5: Report of TCP Vegas — Data Link

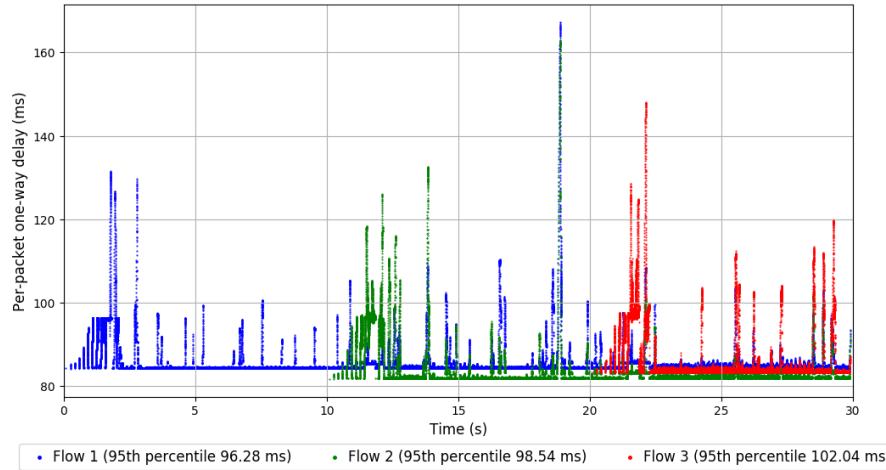
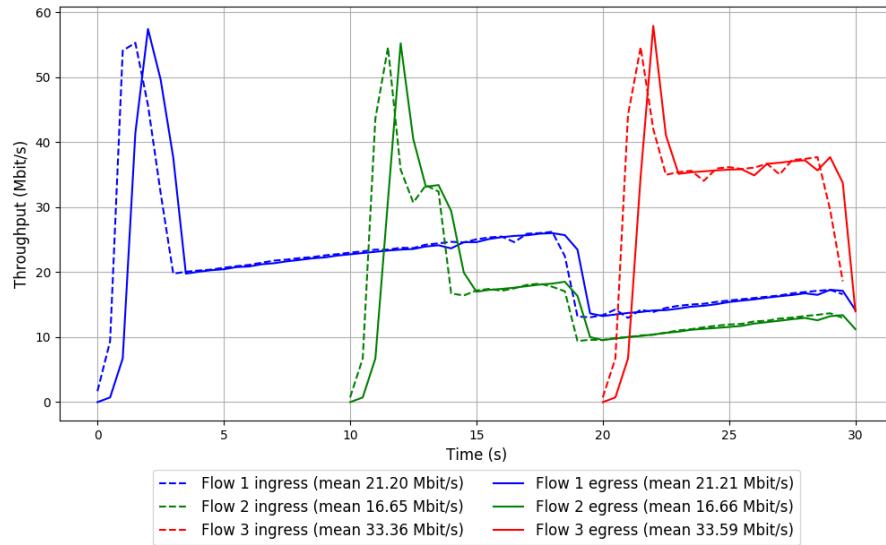


Run 6: Statistics of TCP Vegas

```
Start at: 2018-06-19 10:57:01
End at: 2018-06-19 10:57:31
Local clock offset: -1.487 ms
Remote clock offset: 10.671 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.32 Mbit/s
95th percentile per-packet one-way delay: 98.431 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 21.21 Mbit/s
95th percentile per-packet one-way delay: 96.276 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 98.540 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 33.59 Mbit/s
95th percentile per-packet one-way delay: 102.043 ms
Loss rate: 0.98%
```

Run 6: Report of TCP Vegas — Data Link

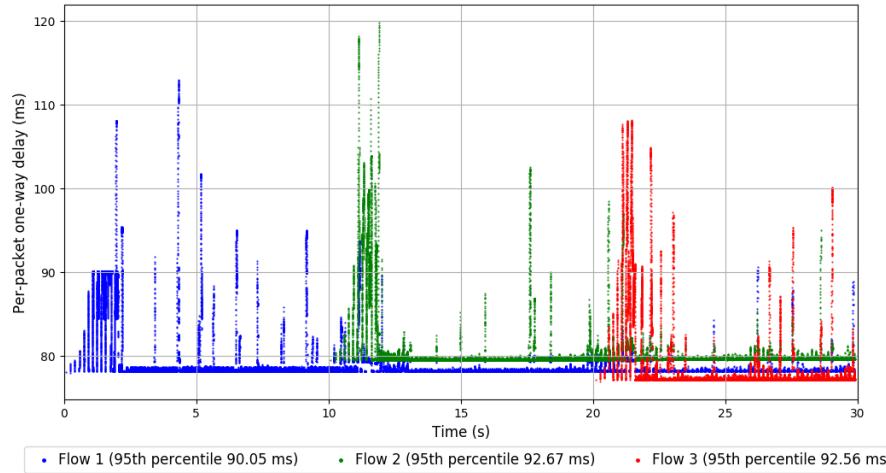
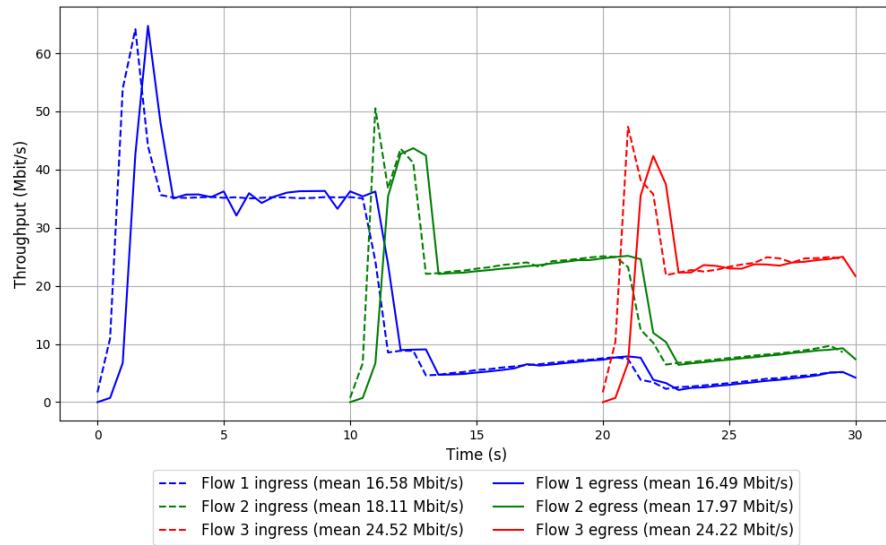


Run 7: Statistics of TCP Vegas

```
Start at: 2018-06-19 11:16:50
End at: 2018-06-19 11:17:20
Local clock offset: -2.186 ms
Remote clock offset: 16.596 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 90.125 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 16.49 Mbit/s
95th percentile per-packet one-way delay: 90.047 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 17.97 Mbit/s
95th percentile per-packet one-way delay: 92.670 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 92.565 ms
Loss rate: 2.85%
```

Run 7: Report of TCP Vegas — Data Link

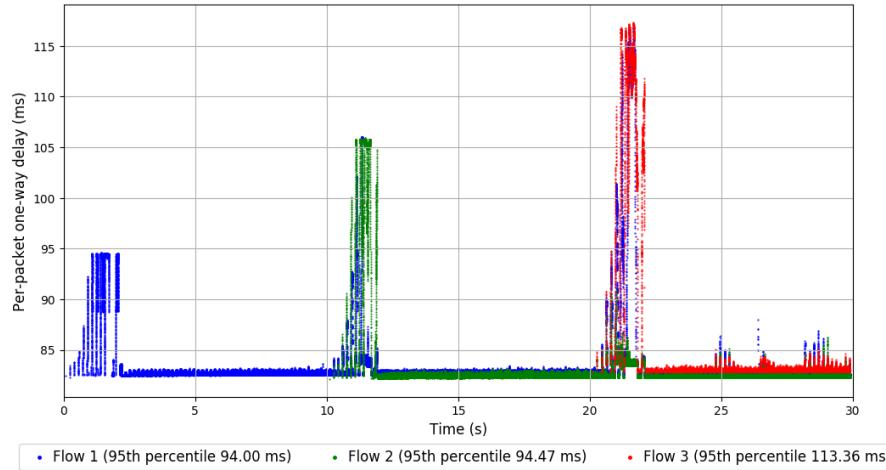
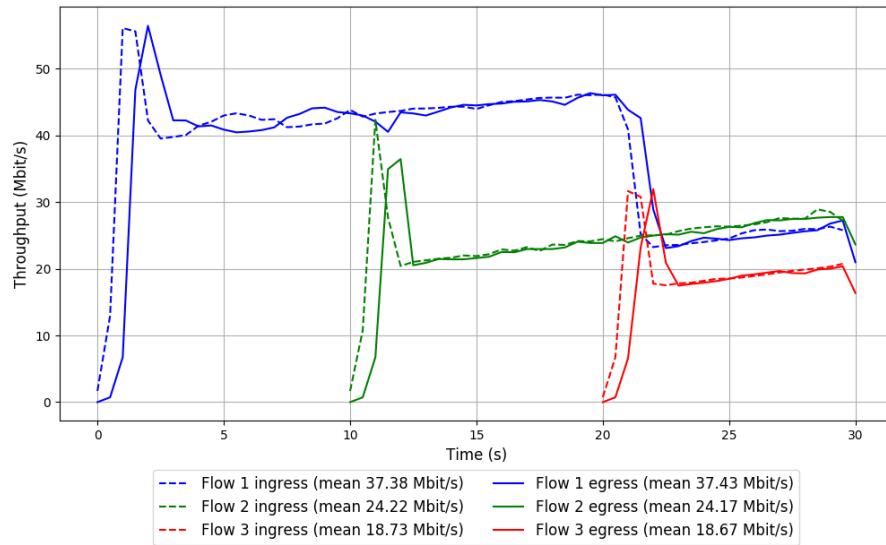


Run 8: Statistics of TCP Vegas

```
Start at: 2018-06-19 11:36:51
End at: 2018-06-19 11:37:21
Local clock offset: -2.702 ms
Remote clock offset: 13.115 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.62 Mbit/s
95th percentile per-packet one-way delay: 94.395 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 37.43 Mbit/s
95th percentile per-packet one-way delay: 93.996 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 94.471 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 18.67 Mbit/s
95th percentile per-packet one-way delay: 113.355 ms
Loss rate: 2.00%
```

Run 8: Report of TCP Vegas — Data Link

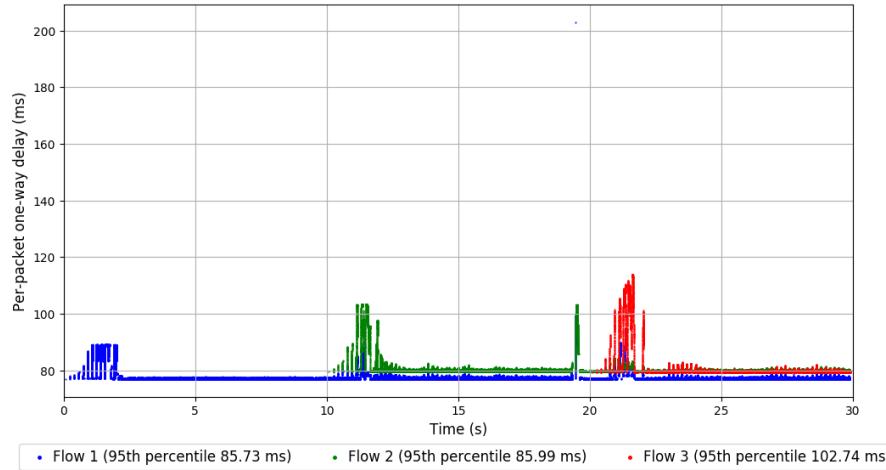
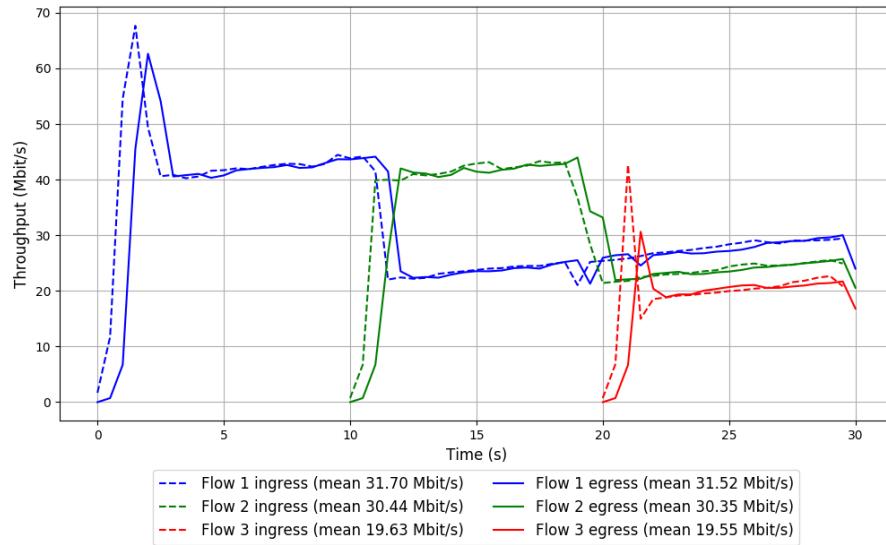


Run 9: Statistics of TCP Vegas

```
Start at: 2018-06-19 11:57:04
End at: 2018-06-19 11:57:34
Local clock offset: -3.197 ms
Remote clock offset: 11.051 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 88.129 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 85.730 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 30.35 Mbit/s
95th percentile per-packet one-way delay: 85.988 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 19.55 Mbit/s
95th percentile per-packet one-way delay: 102.740 ms
Loss rate: 2.06%
```

Run 9: Report of TCP Vegas — Data Link

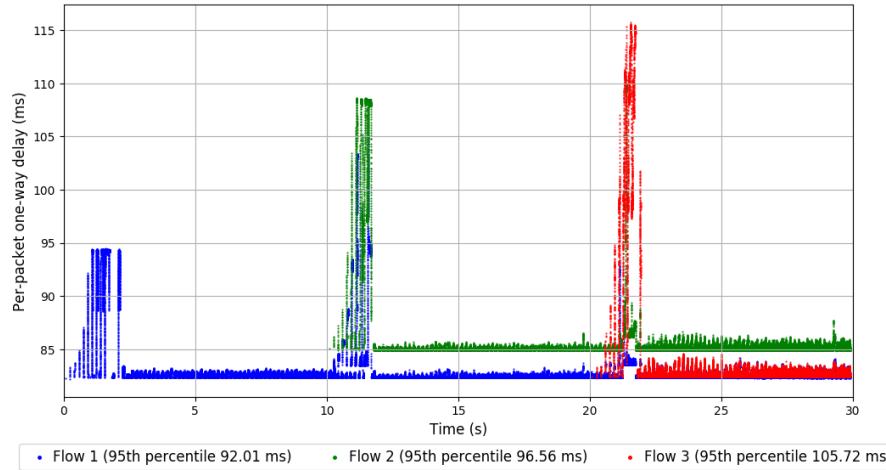
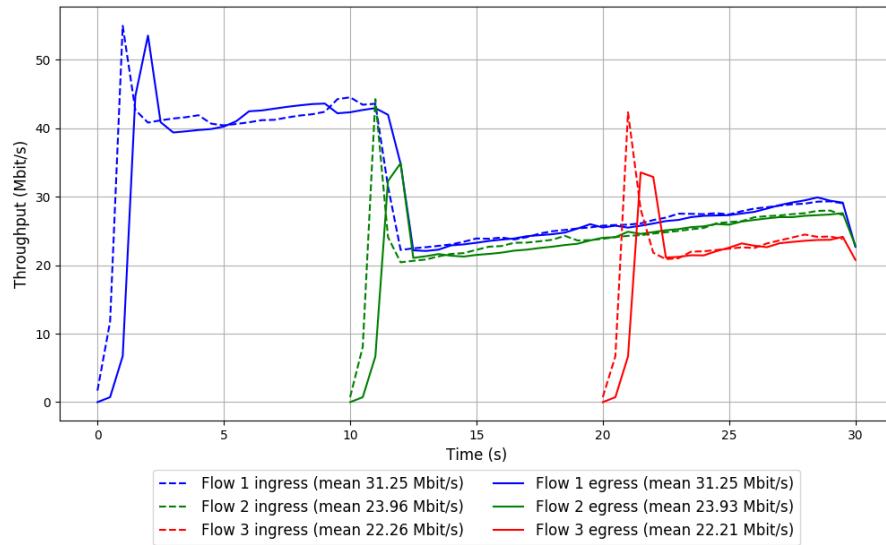


Run 10: Statistics of TCP Vegas

```
Start at: 2018-06-19 12:16:58
End at: 2018-06-19 12:17:28
Local clock offset: -2.772 ms
Remote clock offset: 2.244 ms

# Below is generated by plot.py at 2018-06-19 12:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.43 Mbit/s
95th percentile per-packet one-way delay: 94.158 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 92.009 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 23.93 Mbit/s
95th percentile per-packet one-way delay: 96.563 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 22.21 Mbit/s
95th percentile per-packet one-way delay: 105.719 ms
Loss rate: 1.83%
```

Run 10: Report of TCP Vegas — Data Link

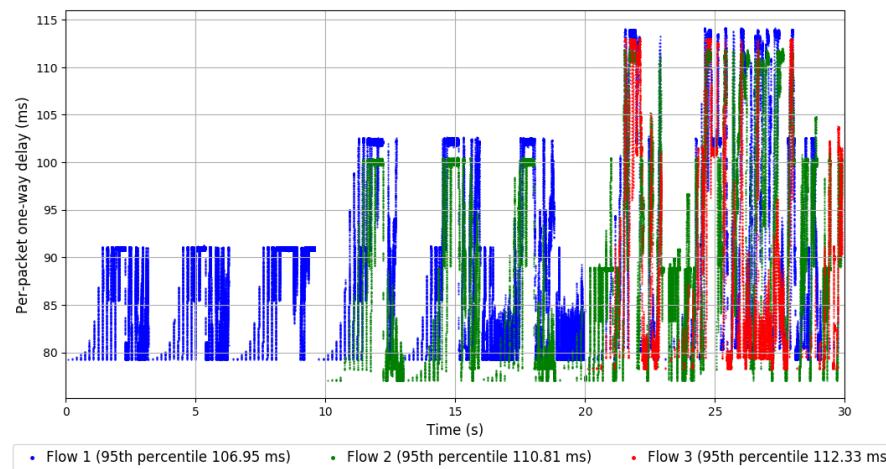
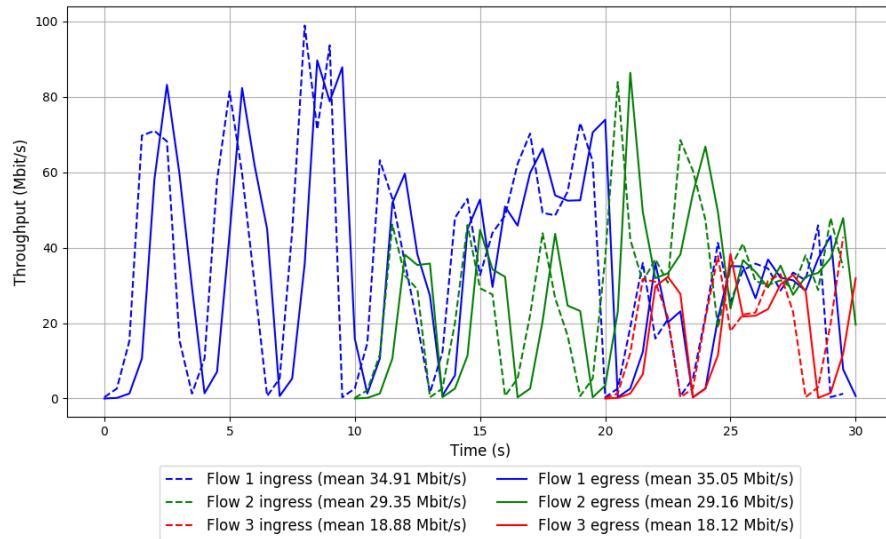


Run 1: Statistics of Verus

```
Start at: 2018-06-19 09:04:00
End at: 2018-06-19 09:04:30
Local clock offset: -2.772 ms
Remote clock offset: 11.05 ms

# Below is generated by plot.py at 2018-06-19 12:39:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.19 Mbit/s
95th percentile per-packet one-way delay: 110.407 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 106.952 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 110.811 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 112.327 ms
Loss rate: 5.61%
```

Run 1: Report of Verus — Data Link

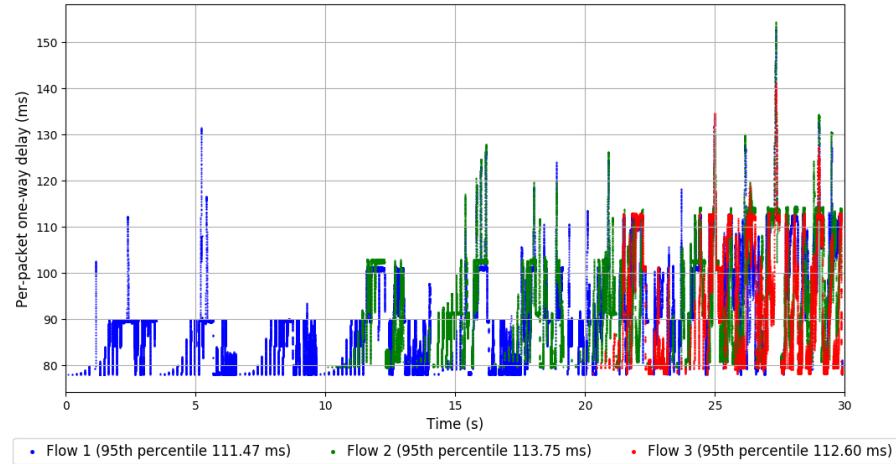
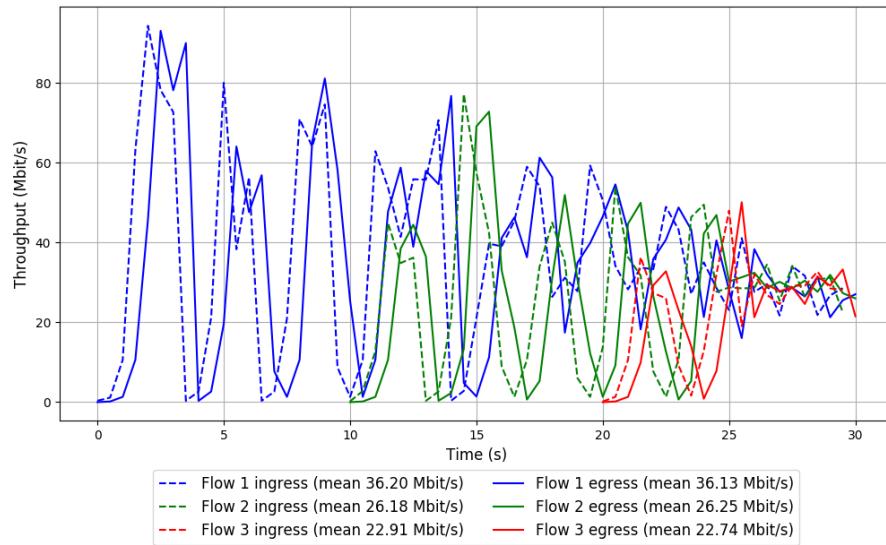


Run 2: Statistics of Verus

```
Start at: 2018-06-19 09:23:48
End at: 2018-06-19 09:24:18
Local clock offset: -3.485 ms
Remote clock offset: 10.172 ms

# Below is generated by plot.py at 2018-06-19 12:39:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.00 Mbit/s
95th percentile per-packet one-way delay: 112.266 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 36.13 Mbit/s
95th percentile per-packet one-way delay: 111.471 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 26.25 Mbit/s
95th percentile per-packet one-way delay: 113.755 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 22.74 Mbit/s
95th percentile per-packet one-way delay: 112.598 ms
Loss rate: 2.36%
```

Run 2: Report of Verus — Data Link

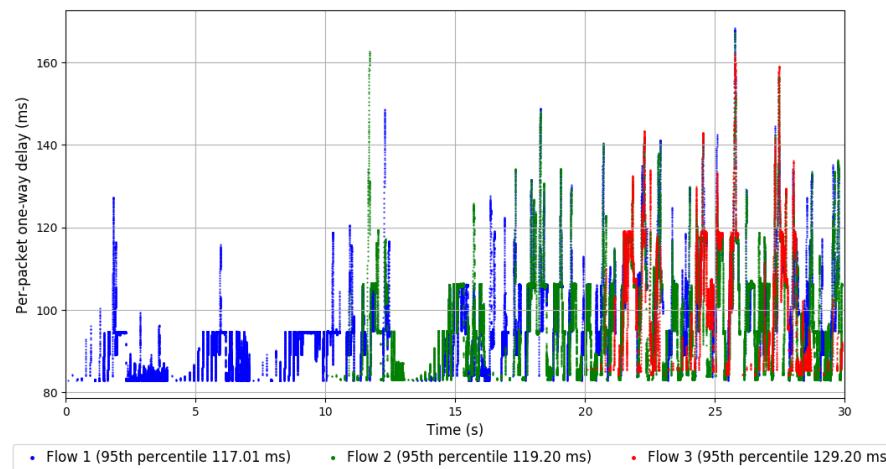
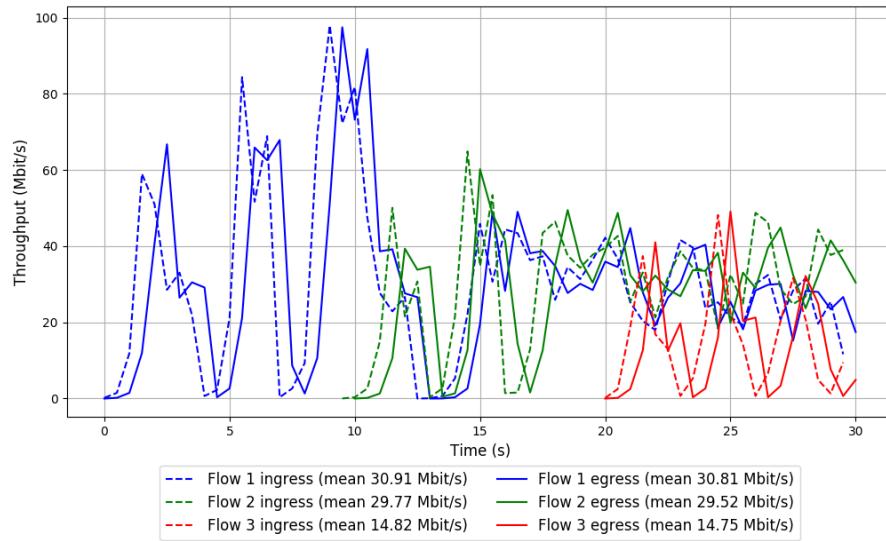


Run 3: Statistics of Verus

```
Start at: 2018-06-19 09:43:35
End at: 2018-06-19 09:44:05
Local clock offset: -2.332 ms
Remote clock offset: 4.247 ms

# Below is generated by plot.py at 2018-06-19 12:39:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.15 Mbit/s
95th percentile per-packet one-way delay: 118.499 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 30.81 Mbit/s
95th percentile per-packet one-way delay: 117.006 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 119.205 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 14.75 Mbit/s
95th percentile per-packet one-way delay: 129.204 ms
Loss rate: 2.13%
```

Run 3: Report of Verus — Data Link

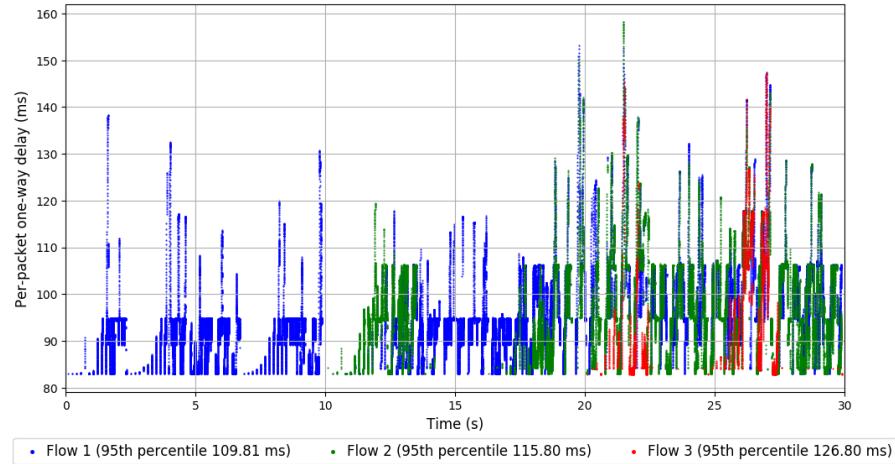
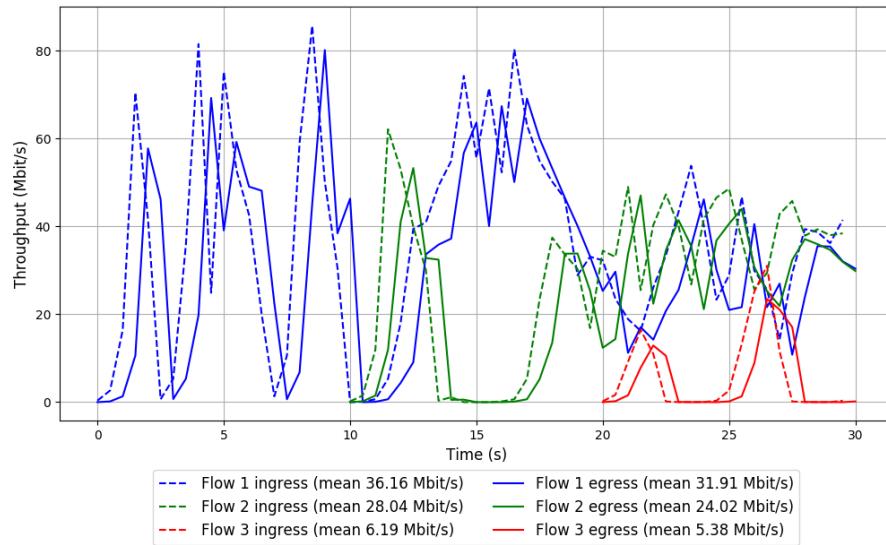


Run 4: Statistics of Verus

```
Start at: 2018-06-19 10:03:33
End at: 2018-06-19 10:04:03
Local clock offset: -1.569 ms
Remote clock offset: 4.06 ms

# Below is generated by plot.py at 2018-06-19 12:39:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 113.914 ms
Loss rate: 13.16%
-- Flow 1:
Average throughput: 31.91 Mbit/s
95th percentile per-packet one-way delay: 109.807 ms
Loss rate: 12.24%
-- Flow 2:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 115.799 ms
Loss rate: 14.80%
-- Flow 3:
Average throughput: 5.38 Mbit/s
95th percentile per-packet one-way delay: 126.802 ms
Loss rate: 14.50%
```

Run 4: Report of Verus — Data Link

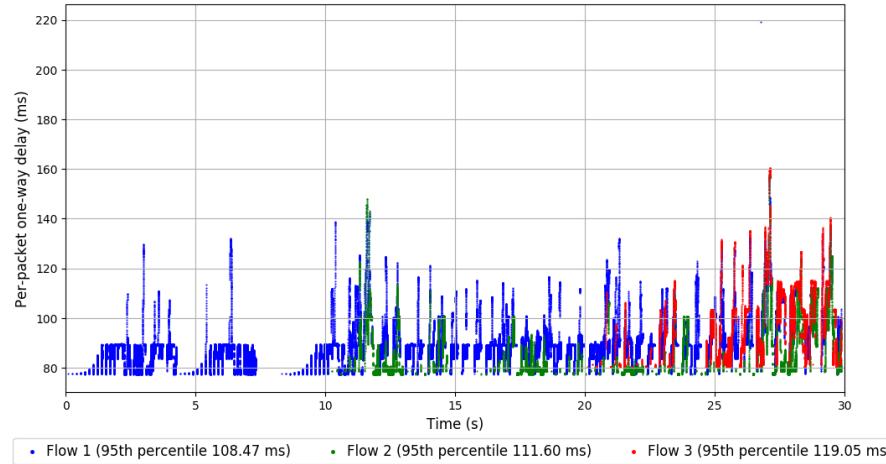
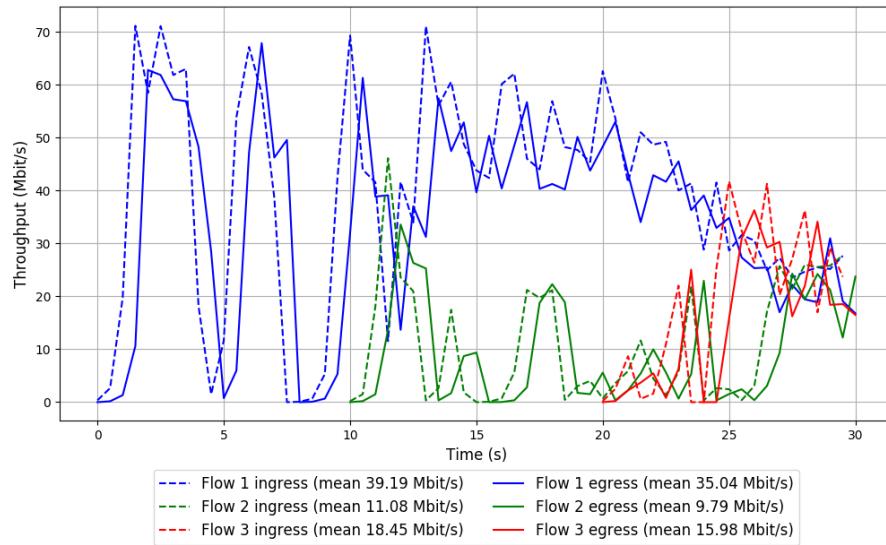


Run 5: Statistics of Verus

```
Start at: 2018-06-19 10:23:21
End at: 2018-06-19 10:23:51
Local clock offset: -1.84 ms
Remote clock offset: 8.651 ms

# Below is generated by plot.py at 2018-06-19 12:39:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.78 Mbit/s
95th percentile per-packet one-way delay: 111.493 ms
Loss rate: 11.75%
-- Flow 1:
Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 108.475 ms
Loss rate: 11.12%
-- Flow 2:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 111.596 ms
Loss rate: 12.41%
-- Flow 3:
Average throughput: 15.98 Mbit/s
95th percentile per-packet one-way delay: 119.047 ms
Loss rate: 14.99%
```

Run 5: Report of Verus — Data Link

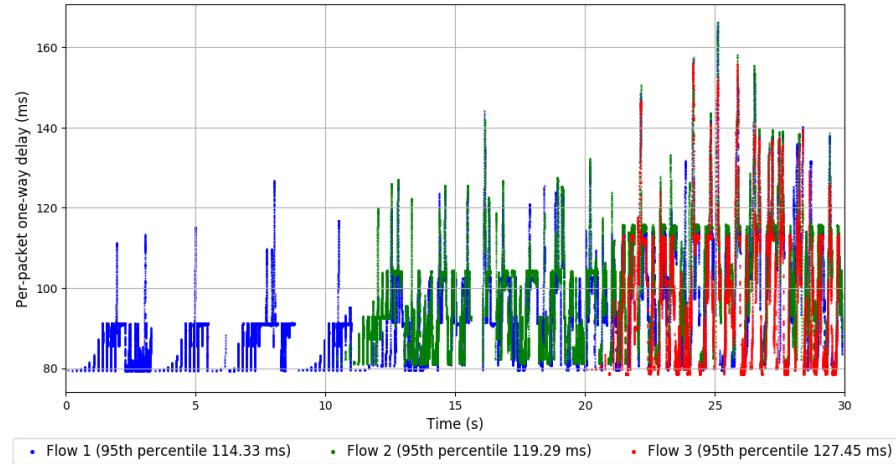
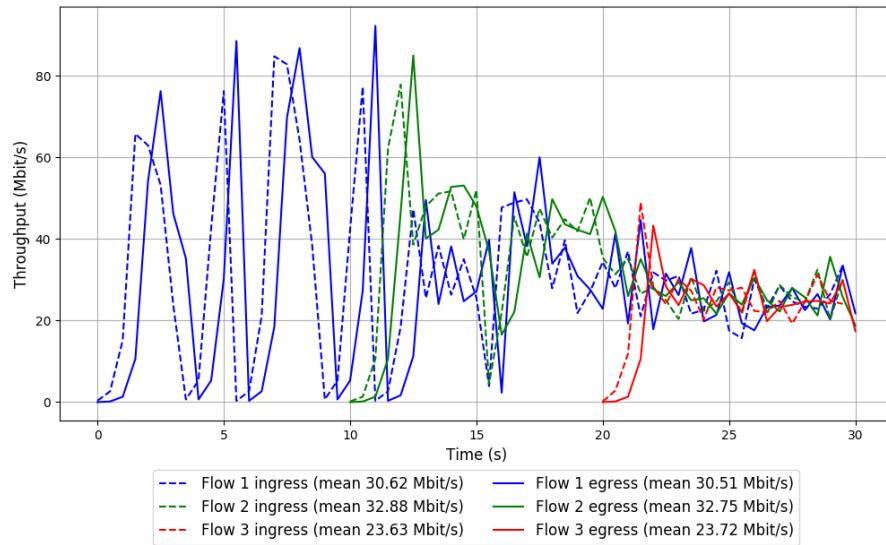


Run 6: Statistics of Verus

```
Start at: 2018-06-19 10:43:14
End at: 2018-06-19 10:43:44
Local clock offset: -1.638 ms
Remote clock offset: 10.778 ms

# Below is generated by plot.py at 2018-06-19 12:39:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.96 Mbit/s
95th percentile per-packet one-way delay: 118.180 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 30.51 Mbit/s
95th percentile per-packet one-way delay: 114.332 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 119.292 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 127.452 ms
Loss rate: 2.52%
```

Run 6: Report of Verus — Data Link

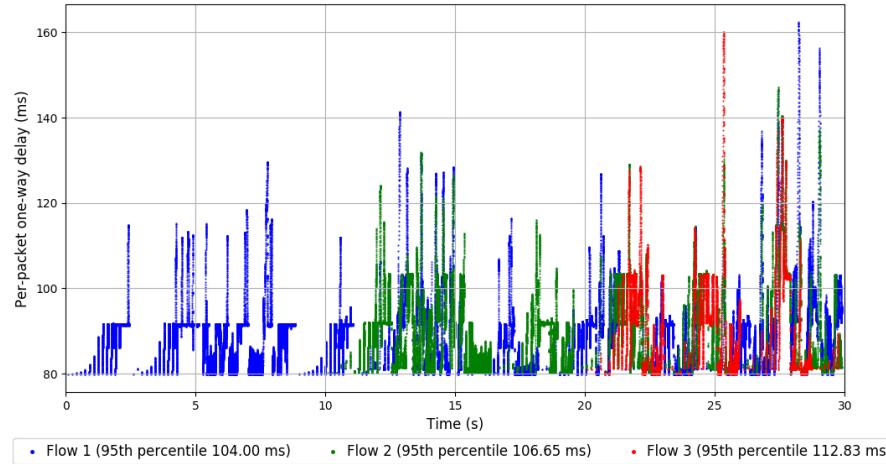
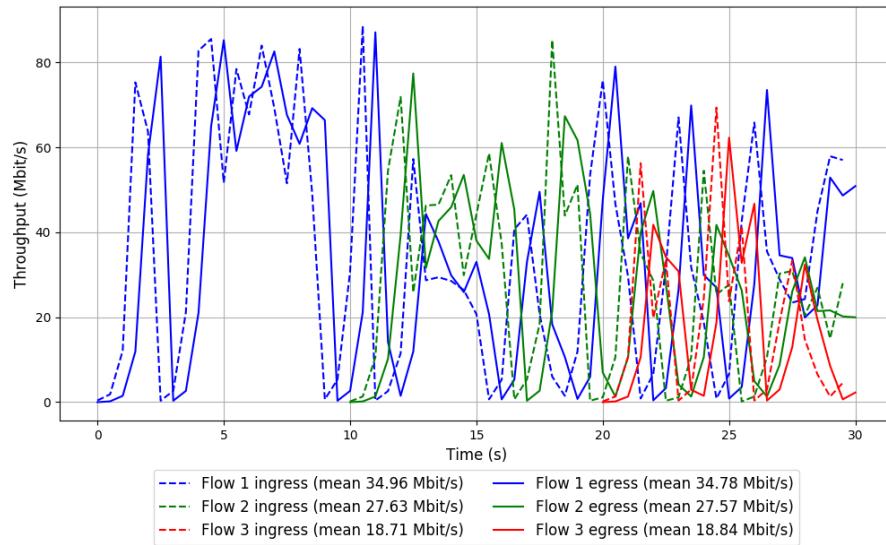


Run 7: Statistics of Verus

```
Start at: 2018-06-19 11:03:13
End at: 2018-06-19 11:03:43
Local clock offset: -1.435 ms
Remote clock offset: 15.374 ms

# Below is generated by plot.py at 2018-06-19 12:40:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.18 Mbit/s
95th percentile per-packet one-way delay: 105.775 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 103.995 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 27.57 Mbit/s
95th percentile per-packet one-way delay: 106.647 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 18.84 Mbit/s
95th percentile per-packet one-way delay: 112.830 ms
Loss rate: 0.99%
```

Run 7: Report of Verus — Data Link

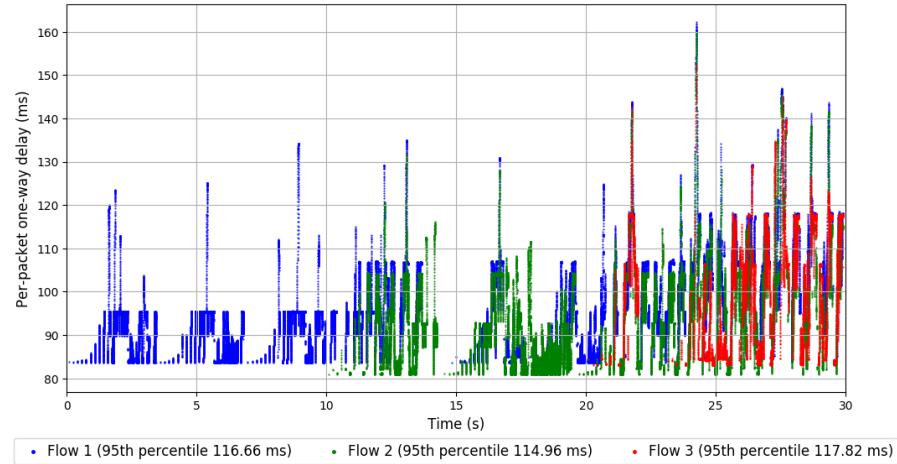
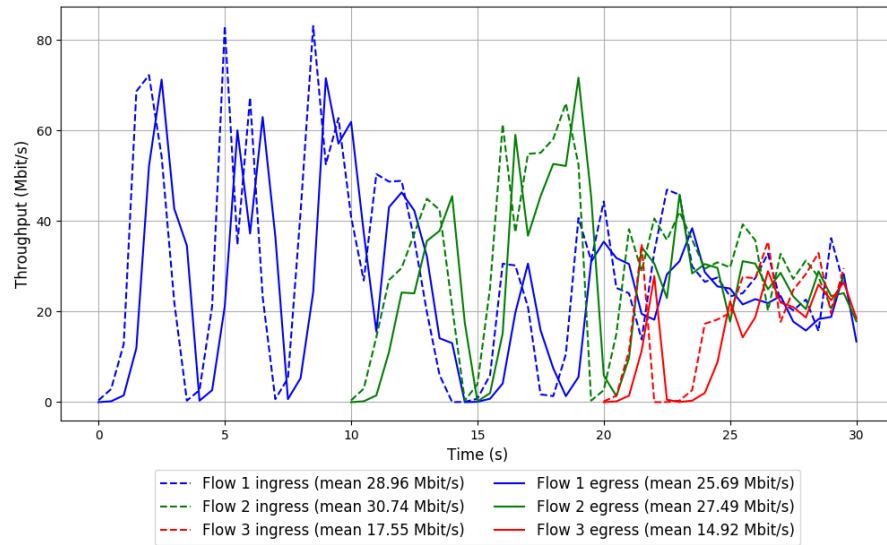


Run 8: Statistics of Verus

```
Start at: 2018-06-19 11:23:01
End at: 2018-06-19 11:23:31
Local clock offset: -2.395 ms
Remote clock offset: 13.153 ms

# Below is generated by plot.py at 2018-06-19 12:40:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.85 Mbit/s
95th percentile per-packet one-way delay: 116.874 ms
Loss rate: 12.00%
-- Flow 1:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 116.657 ms
Loss rate: 11.59%
-- Flow 2:
Average throughput: 27.49 Mbit/s
95th percentile per-packet one-way delay: 114.957 ms
Loss rate: 11.31%
-- Flow 3:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 117.824 ms
Loss rate: 16.44%
```

Run 8: Report of Verus — Data Link

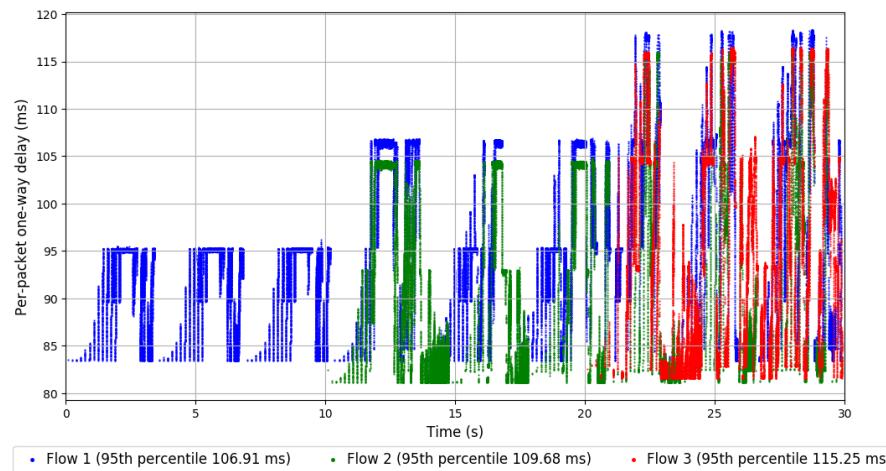
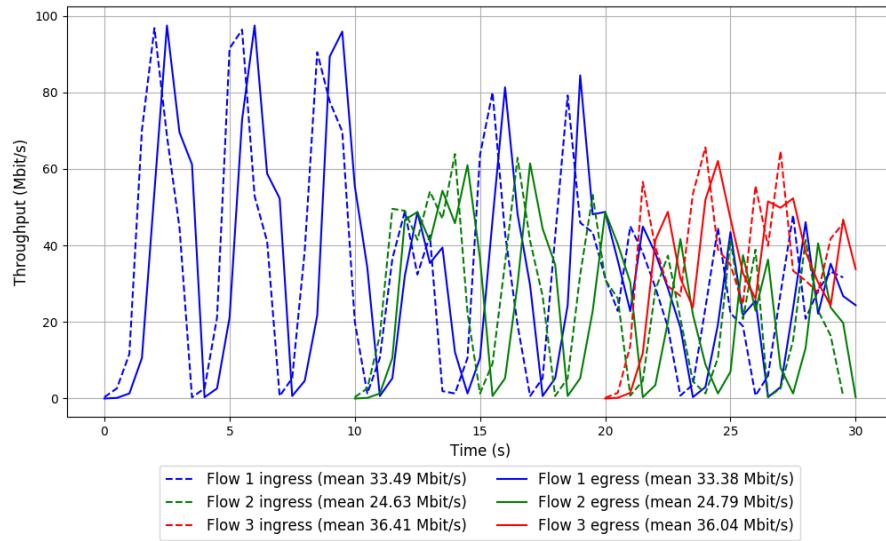


Run 9: Statistics of Verus

```
Start at: 2018-06-19 11:43:15
End at: 2018-06-19 11:43:45
Local clock offset: -2.852 ms
Remote clock offset: 14.531 ms

# Below is generated by plot.py at 2018-06-19 12:40:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.65 Mbit/s
95th percentile per-packet one-way delay: 110.102 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 33.38 Mbit/s
95th percentile per-packet one-way delay: 106.914 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 109.676 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 36.04 Mbit/s
95th percentile per-packet one-way delay: 115.249 ms
Loss rate: 2.64%
```

Run 9: Report of Verus — Data Link

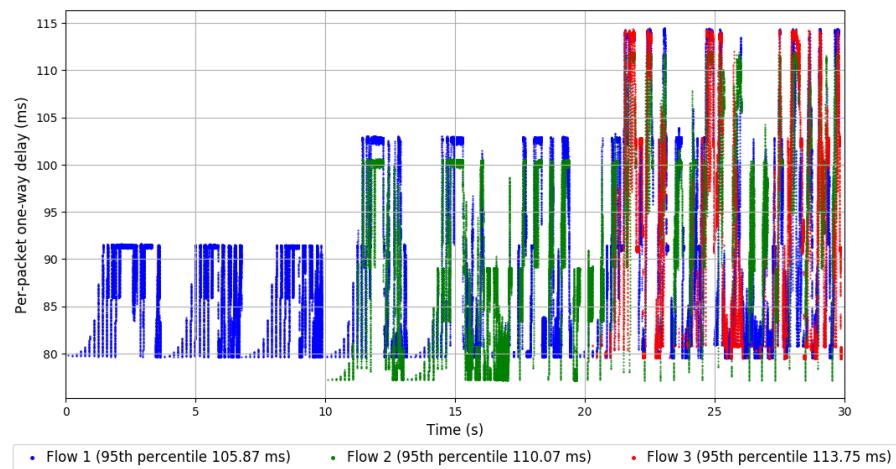
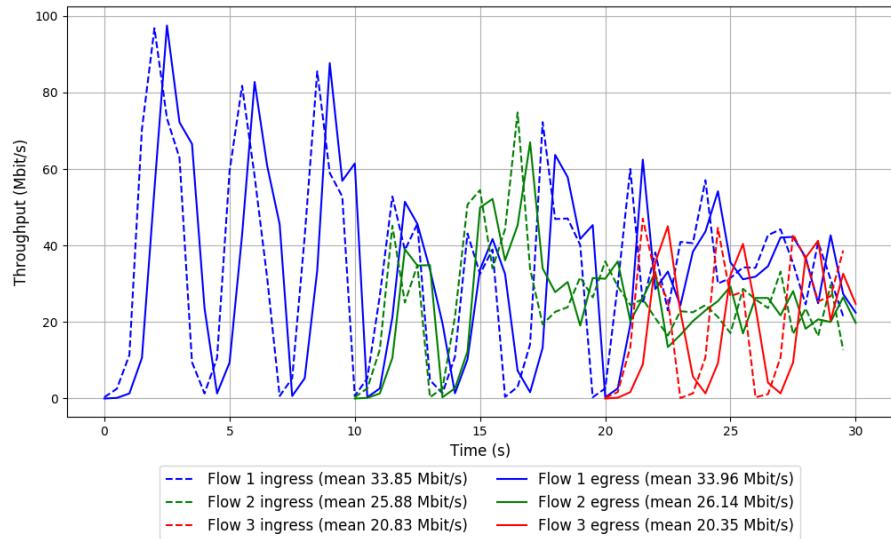


Run 10: Statistics of Verus

```
Start at: 2018-06-19 12:03:18
End at: 2018-06-19 12:03:48
Local clock offset: -3.21 ms
Remote clock offset: 9.498 ms

# Below is generated by plot.py at 2018-06-19 12:40:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.81 Mbit/s
95th percentile per-packet one-way delay: 111.025 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 33.96 Mbit/s
95th percentile per-packet one-way delay: 105.866 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 110.071 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 113.750 ms
Loss rate: 3.98%
```

Run 10: Report of Verus — Data Link

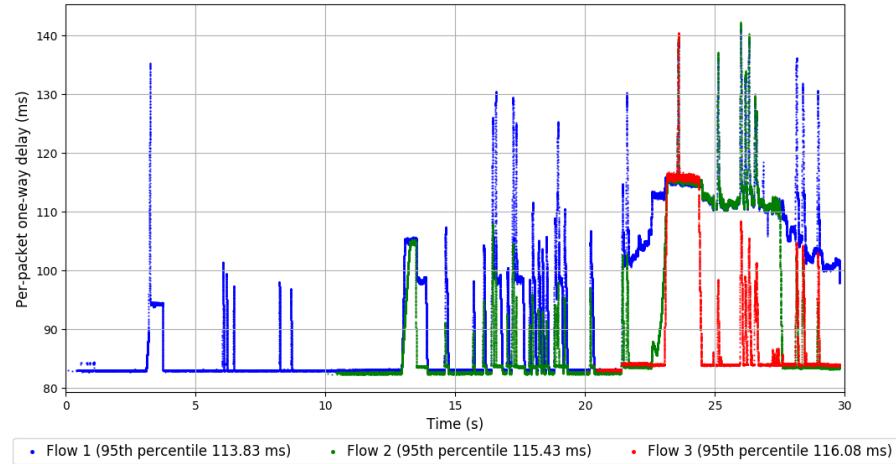
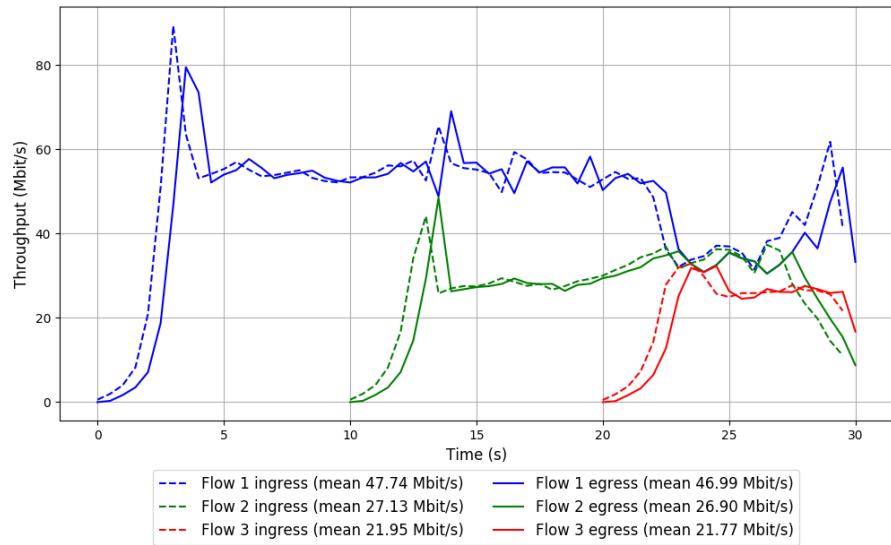


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-06-19 09:16:20
End at: 2018-06-19 09:16:50
Local clock offset: -3.289 ms
Remote clock offset: 5.104 ms

# Below is generated by plot.py at 2018-06-19 12:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.95 Mbit/s
95th percentile per-packet one-way delay: 115.270 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 46.99 Mbit/s
95th percentile per-packet one-way delay: 113.835 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 26.90 Mbit/s
95th percentile per-packet one-way delay: 115.426 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 21.77 Mbit/s
95th percentile per-packet one-way delay: 116.076 ms
Loss rate: 2.45%
```

Run 1: Report of PCC-Vivace — Data Link

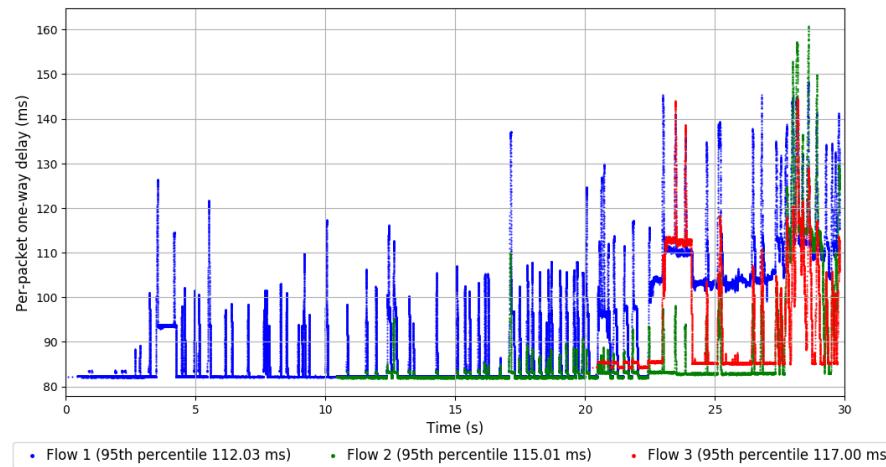
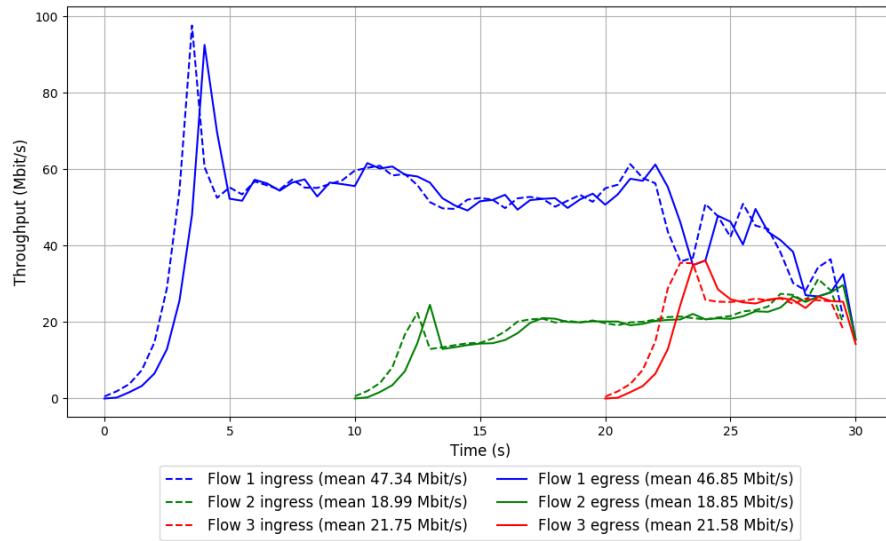


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-06-19 09:36:08
End at: 2018-06-19 09:36:38
Local clock offset: -3.263 ms
Remote clock offset: 4.688 ms

# Below is generated by plot.py at 2018-06-19 12:40:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.39 Mbit/s
95th percentile per-packet one-way delay: 113.051 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 46.85 Mbit/s
95th percentile per-packet one-way delay: 112.035 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 18.85 Mbit/s
95th percentile per-packet one-way delay: 115.007 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 21.58 Mbit/s
95th percentile per-packet one-way delay: 117.005 ms
Loss rate: 2.47%
```

Run 2: Report of PCC-Vivace — Data Link

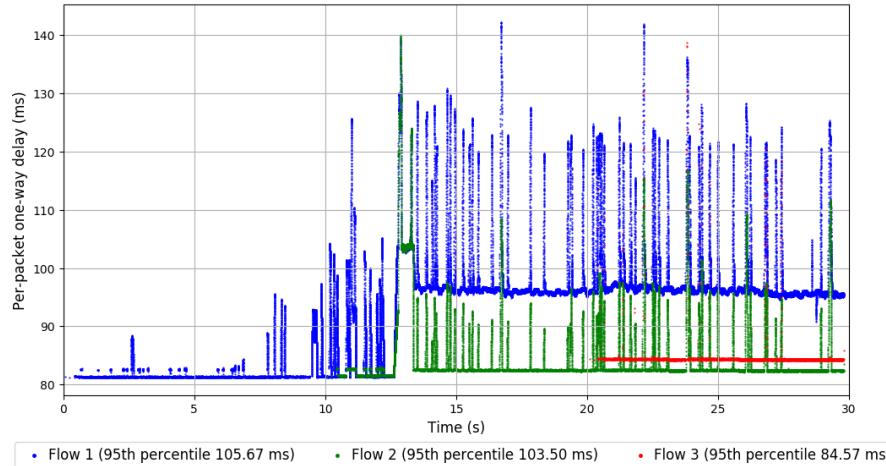
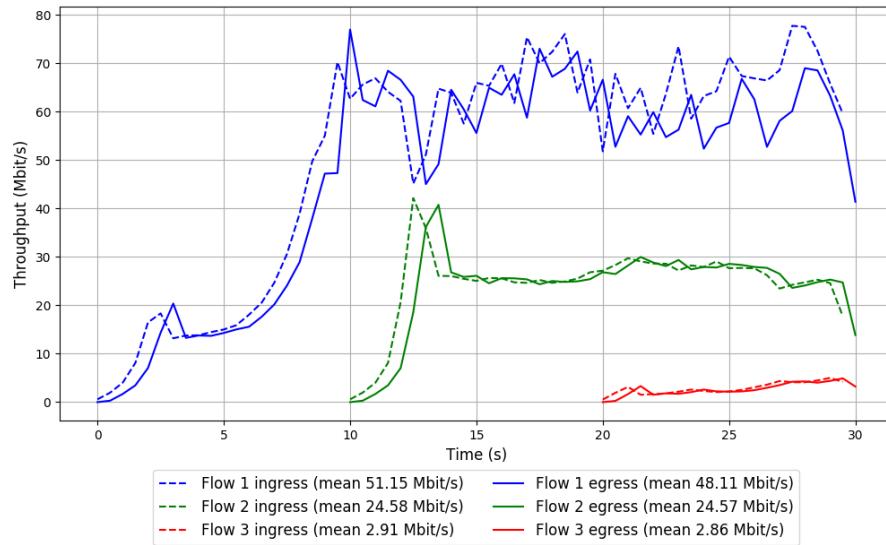


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-06-19 09:56:05
End at: 2018-06-19 09:56:35
Local clock offset: -1.755 ms
Remote clock offset: 5.231 ms

# Below is generated by plot.py at 2018-06-19 12:40:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.34 Mbit/s
95th percentile per-packet one-way delay: 103.823 ms
Loss rate: 5.06%
-- Flow 1:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 105.671 ms
Loss rate: 6.45%
-- Flow 2:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 103.505 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 84.566 ms
Loss rate: 3.23%
```

Run 3: Report of PCC-Vivace — Data Link

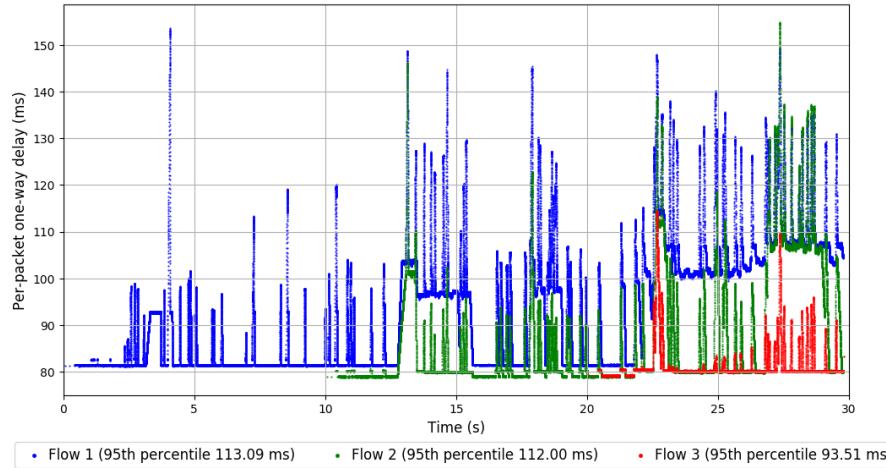
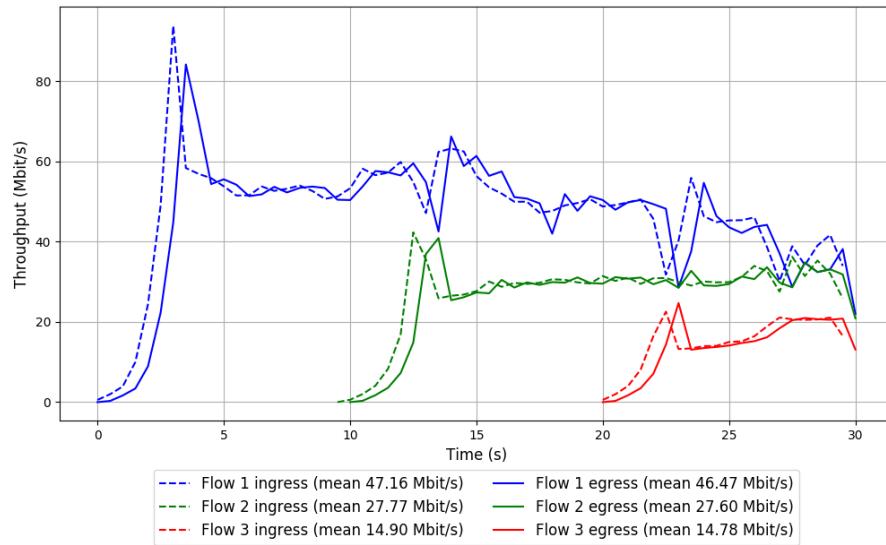


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-06-19 10:15:54
End at: 2018-06-19 10:16:24
Local clock offset: -1.801 ms
Remote clock offset: 7.625 ms

# Below is generated by plot.py at 2018-06-19 12:40:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.61 Mbit/s
95th percentile per-packet one-way delay: 111.776 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 46.47 Mbit/s
95th percentile per-packet one-way delay: 113.089 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 27.60 Mbit/s
95th percentile per-packet one-way delay: 111.996 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 14.78 Mbit/s
95th percentile per-packet one-way delay: 93.508 ms
Loss rate: 2.40%
```

Run 4: Report of PCC-Vivace — Data Link

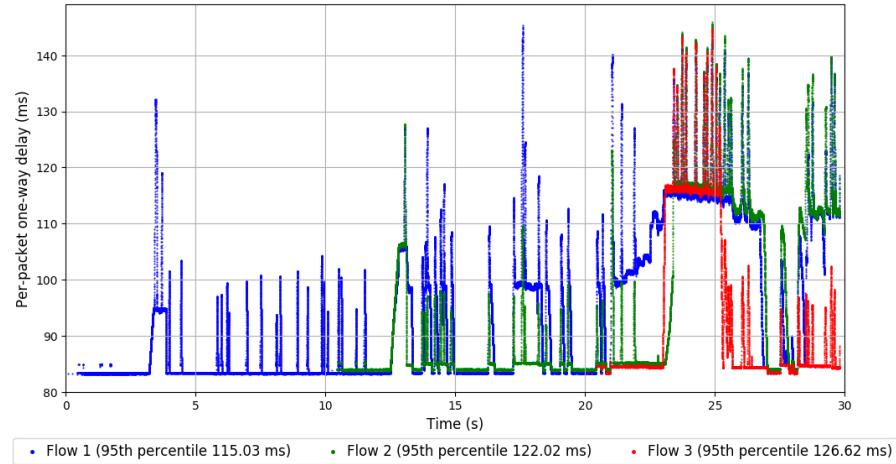
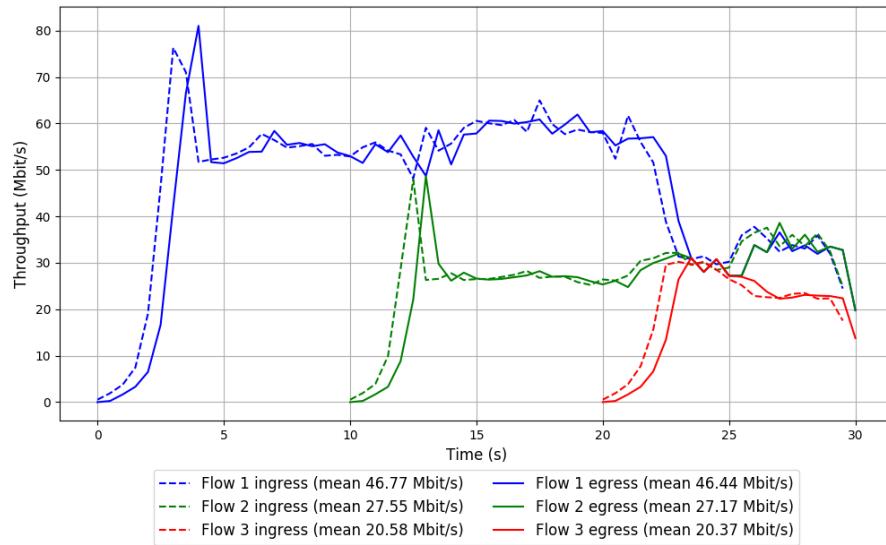


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-06-19 10:35:47
End at: 2018-06-19 10:36:17
Local clock offset: -1.787 ms
Remote clock offset: 4.817 ms

# Below is generated by plot.py at 2018-06-19 12:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.12 Mbit/s
95th percentile per-packet one-way delay: 116.772 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 46.44 Mbit/s
95th percentile per-packet one-way delay: 115.031 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 122.023 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 126.622 ms
Loss rate: 2.69%
```

Run 5: Report of PCC-Vivace — Data Link

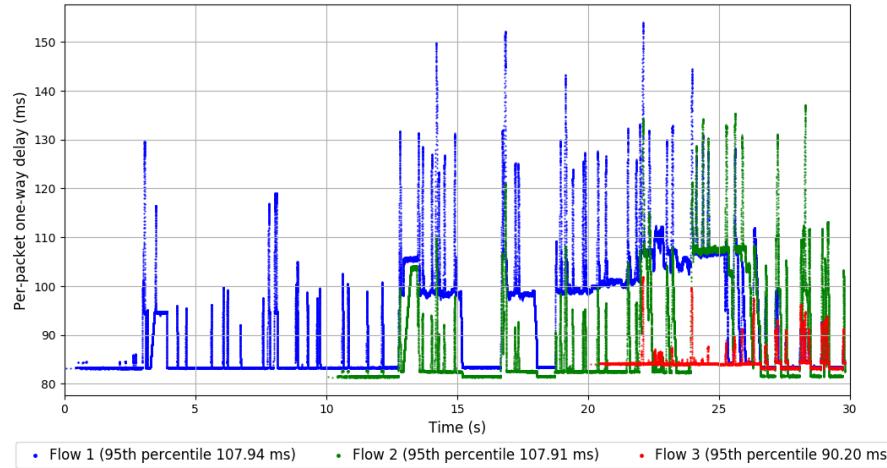
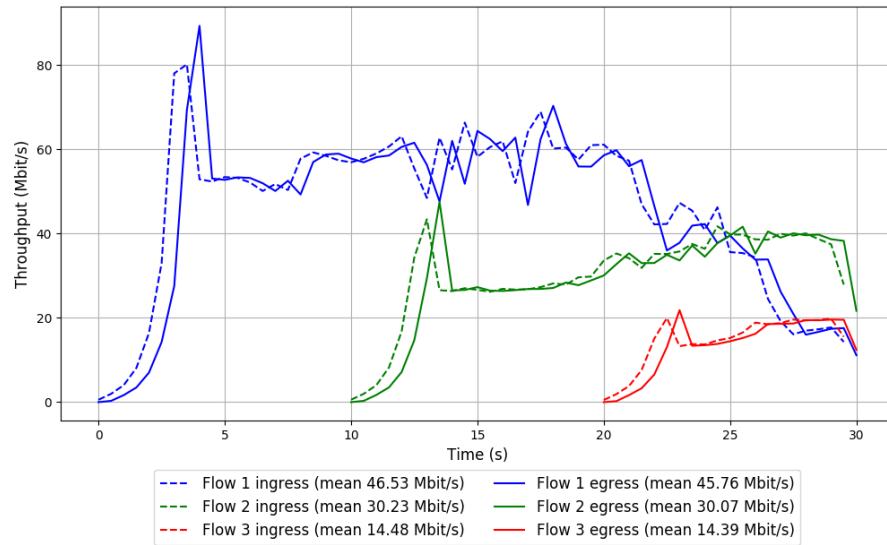


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-06-19 10:55:46
End at: 2018-06-19 10:56:16
Local clock offset: -1.564 ms
Remote clock offset: 10.627 ms

# Below is generated by plot.py at 2018-06-19 12:41:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.41 Mbit/s
95th percentile per-packet one-way delay: 107.758 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 45.76 Mbit/s
95th percentile per-packet one-way delay: 107.942 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 30.07 Mbit/s
95th percentile per-packet one-way delay: 107.906 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 14.39 Mbit/s
95th percentile per-packet one-way delay: 90.196 ms
Loss rate: 2.28%
```

Run 6: Report of PCC-Vivace — Data Link

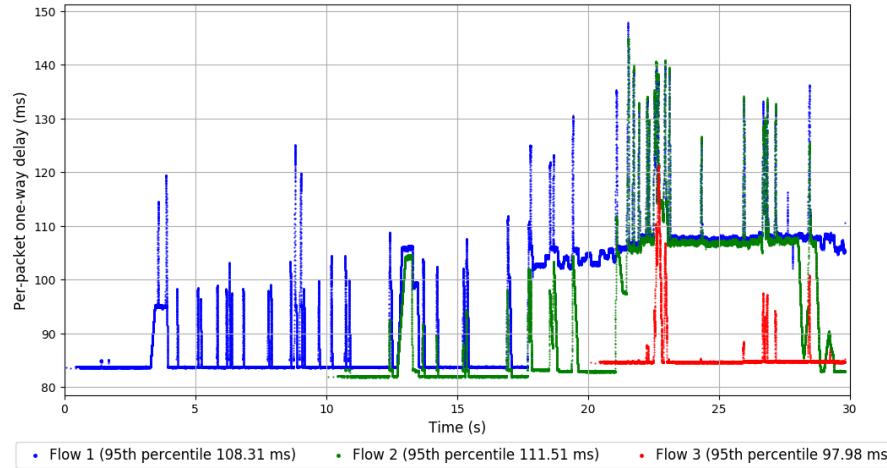
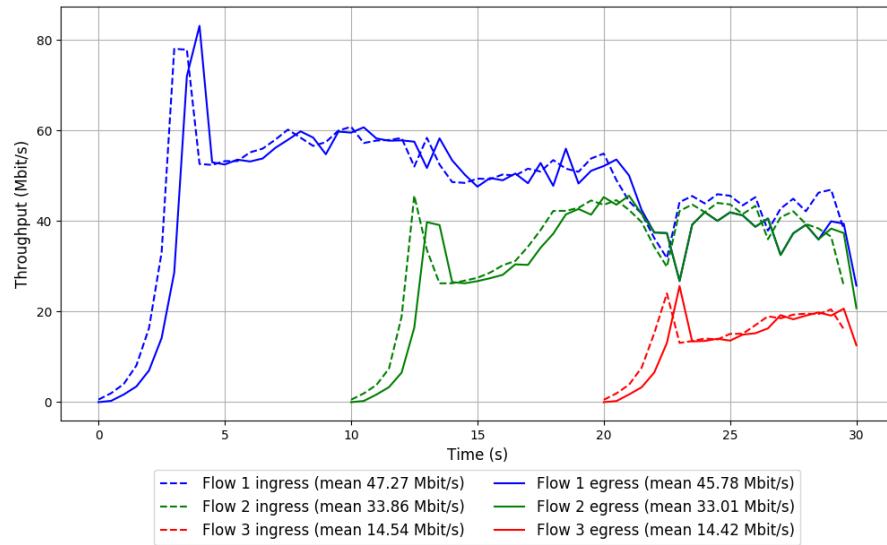


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-06-19 11:15:34
End at: 2018-06-19 11:16:04
Local clock offset: -2.224 ms
Remote clock offset: 12.526 ms

# Below is generated by plot.py at 2018-06-19 12:41:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.38 Mbit/s
95th percentile per-packet one-way delay: 108.320 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 45.78 Mbit/s
95th percentile per-packet one-way delay: 108.312 ms
Loss rate: 3.69%
-- Flow 2:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 111.506 ms
Loss rate: 3.31%
-- Flow 3:
Average throughput: 14.42 Mbit/s
95th percentile per-packet one-way delay: 97.985 ms
Loss rate: 2.45%
```

Run 7: Report of PCC-Vivace — Data Link

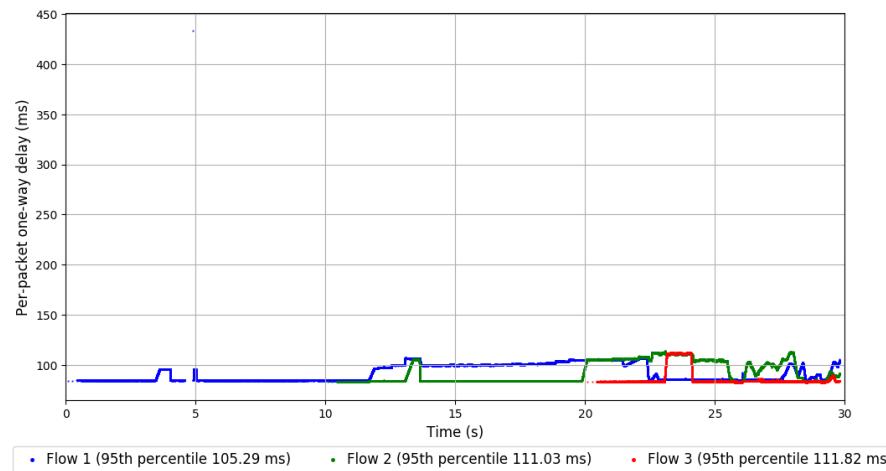
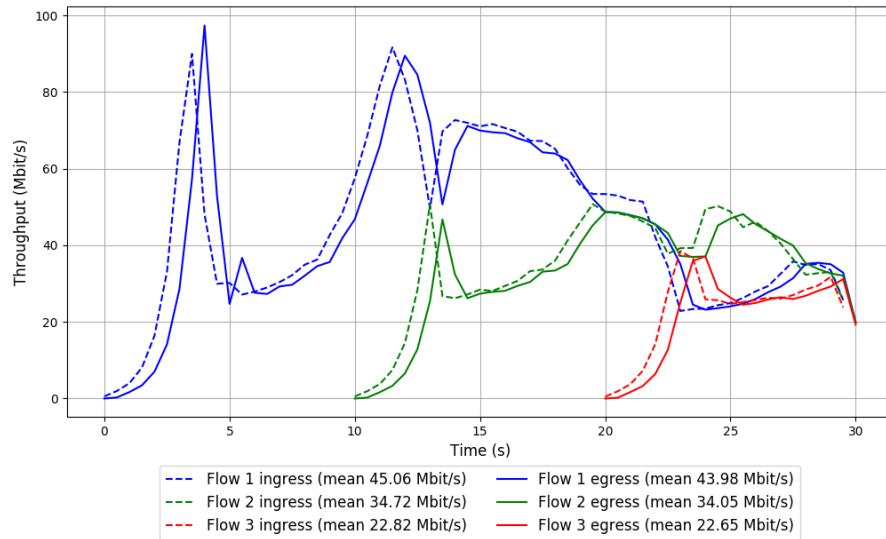


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-06-19 11:35:35
End at: 2018-06-19 11:36:05
Local clock offset: -2.57 ms
Remote clock offset: 12.969 ms

# Below is generated by plot.py at 2018-06-19 12:41:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.97 Mbit/s
95th percentile per-packet one-way delay: 108.152 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 43.98 Mbit/s
95th percentile per-packet one-way delay: 105.291 ms
Loss rate: 2.93%
-- Flow 2:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 111.026 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 111.824 ms
Loss rate: 2.41%
```

Run 8: Report of PCC-Vivace — Data Link

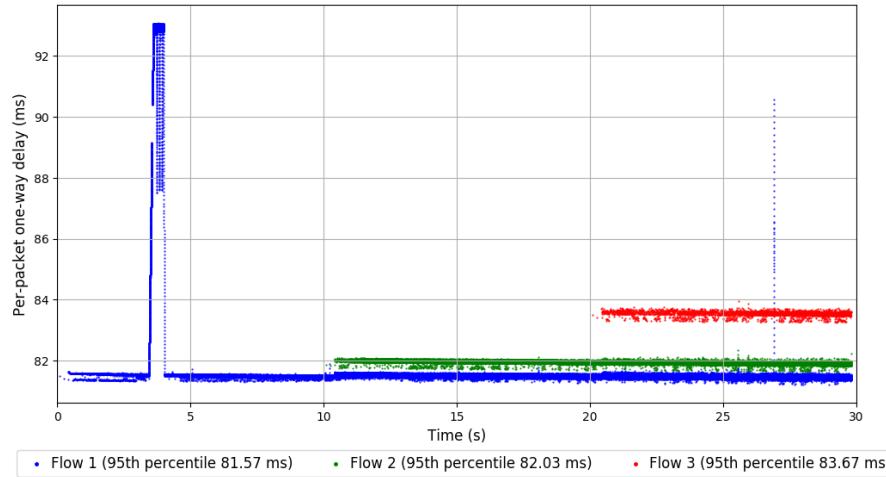
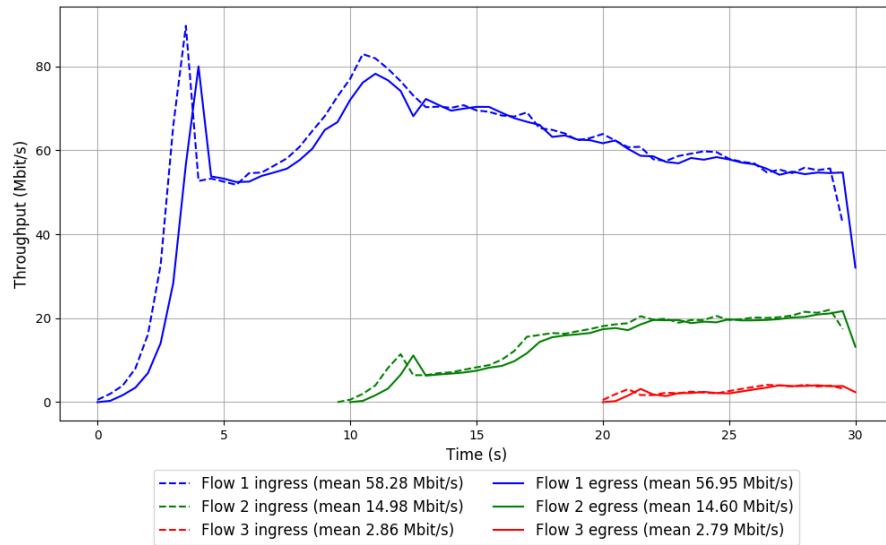


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-06-19 11:55:47
End at: 2018-06-19 11:56:17
Local clock offset: -3.103 ms
Remote clock offset: 7.5 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.54 Mbit/s
95th percentile per-packet one-way delay: 82.015 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 56.95 Mbit/s
95th percentile per-packet one-way delay: 81.574 ms
Loss rate: 2.81%
-- Flow 2:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 82.027 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 83.667 ms
Loss rate: 4.23%
```

Run 9: Report of PCC-Vivace — Data Link

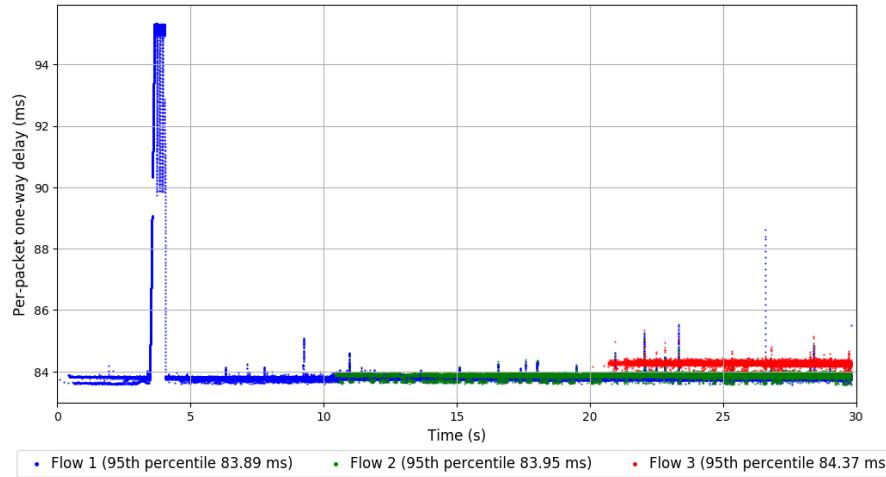
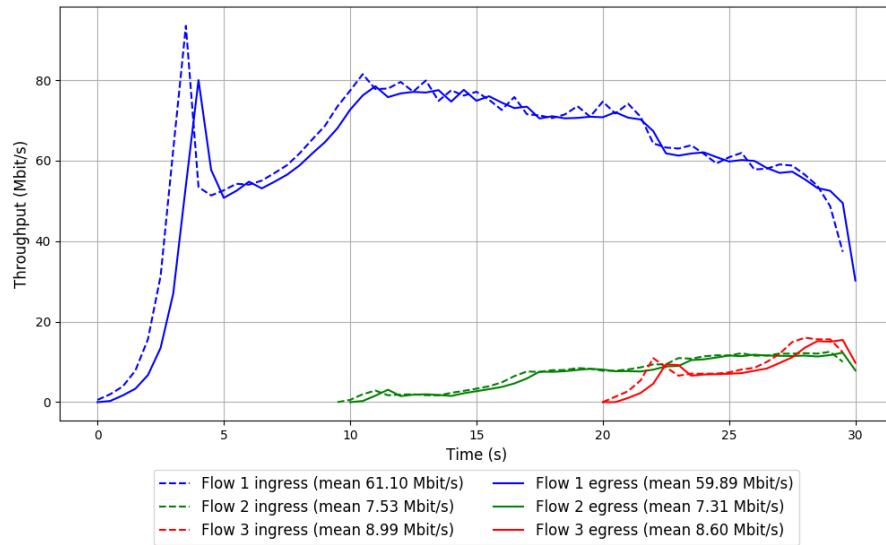


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-06-19 12:15:42
End at: 2018-06-19 12:16:12
Local clock offset: -2.806 ms
Remote clock offset: 3.526 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.56 Mbit/s
95th percentile per-packet one-way delay: 84.235 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 83.890 ms
Loss rate: 2.52%
-- Flow 2:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 83.949 ms
Loss rate: 3.74%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 84.366 ms
Loss rate: 5.86%
```

Run 10: Report of PCC-Vivace — Data Link

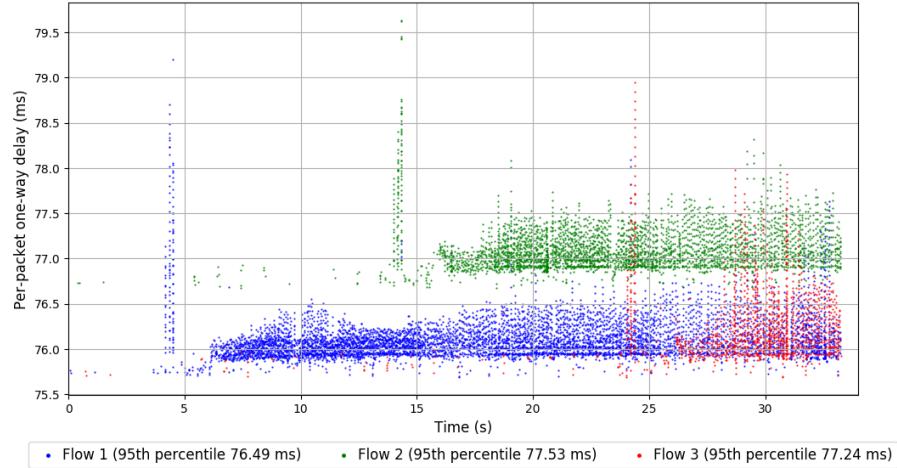
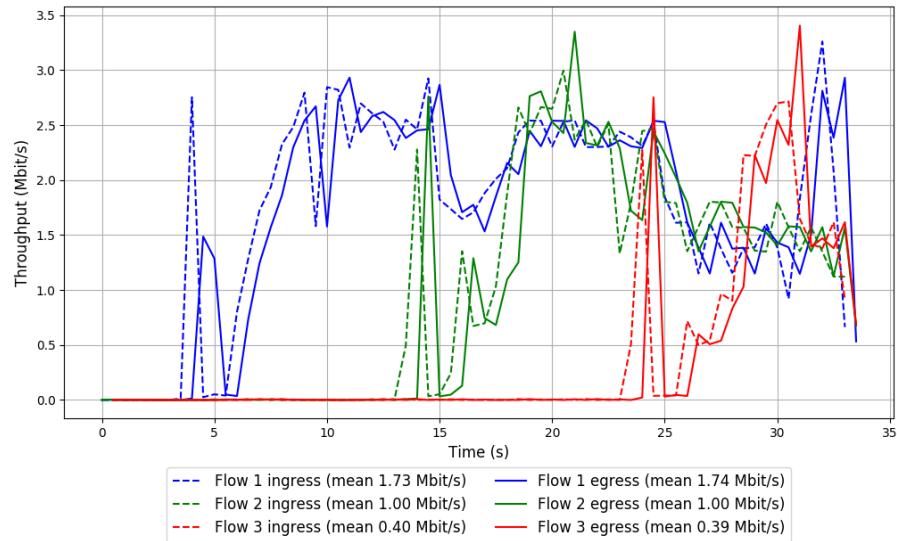


Run 1: Statistics of WebRTC media

```
Start at: 2018-06-19 09:05:14
End at: 2018-06-19 09:05:44
Local clock offset: -2.917 ms
Remote clock offset: 11.113 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 77.361 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 76.489 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 77.530 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 77.243 ms
Loss rate: 1.75%
```

Run 1: Report of WebRTC media — Data Link

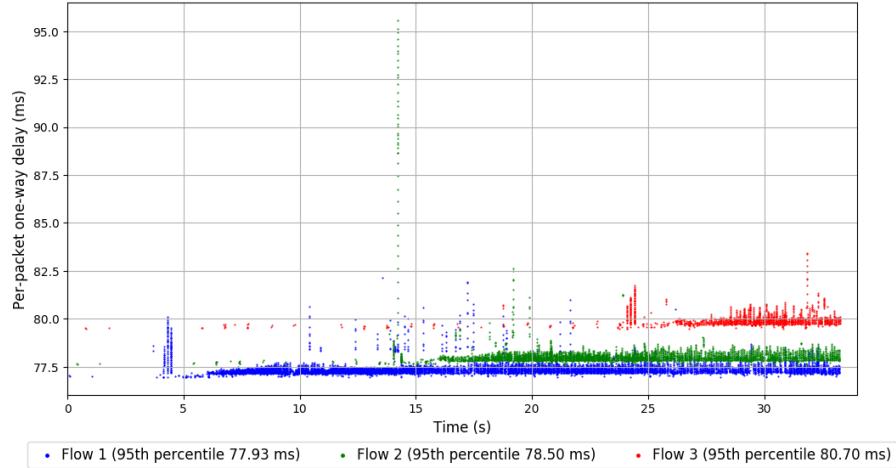
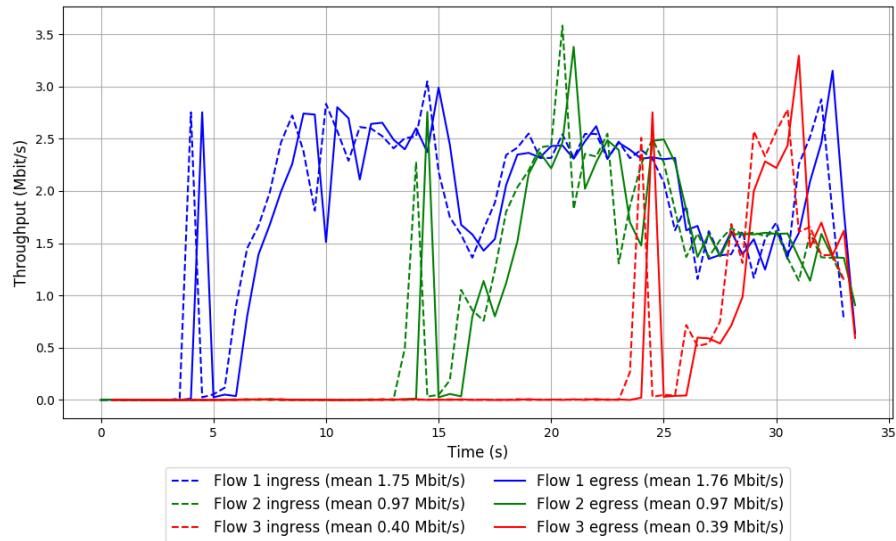


```
Run 2: Statistics of WebRTC media

Start at: 2018-06-19 09:25:02
End at: 2018-06-19 09:25:32
Local clock offset: -3.481 ms
Remote clock offset: 10.134 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 79.985 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 77.934 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 78.501 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 80.698 ms
Loss rate: 2.15%
```

Run 2: Report of WebRTC media — Data Link

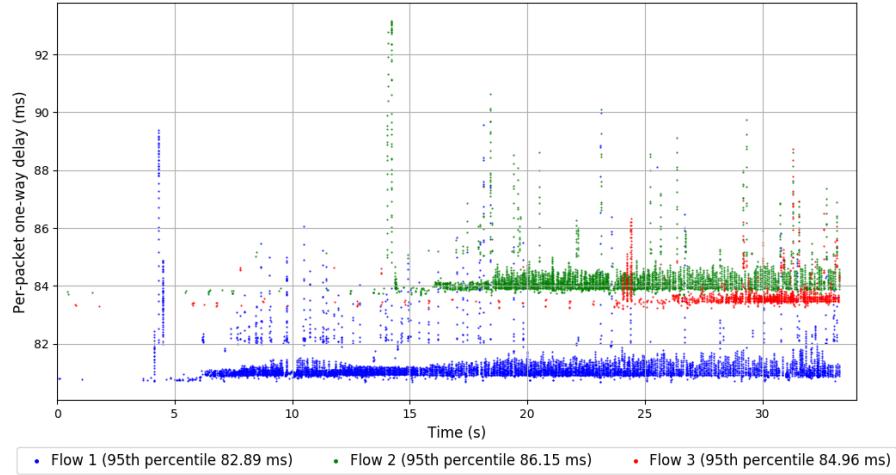
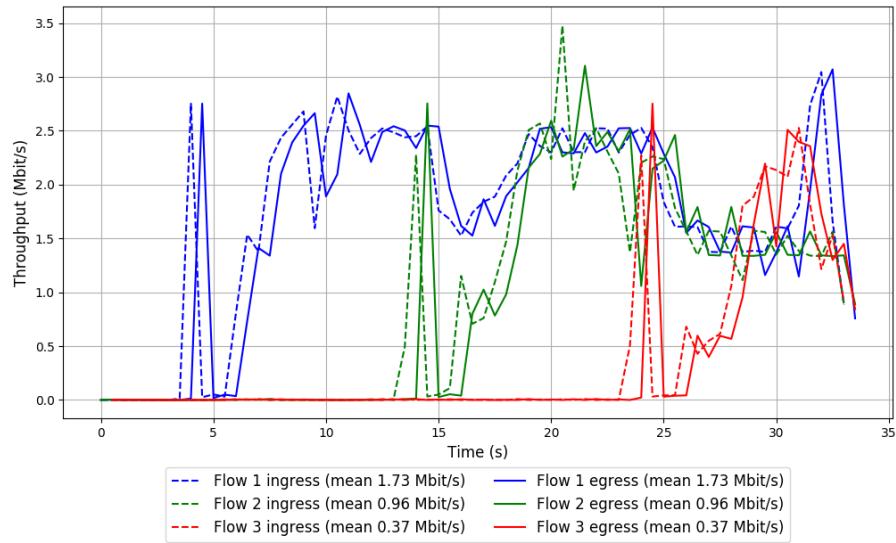


Run 3: Statistics of WebRTC media

```
Start at: 2018-06-19 09:44:49
End at: 2018-06-19 09:45:19
Local clock offset: -2.292 ms
Remote clock offset: 5.397 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 84.782 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 82.885 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 86.147 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 84.961 ms
Loss rate: 1.87%
```

Run 3: Report of WebRTC media — Data Link

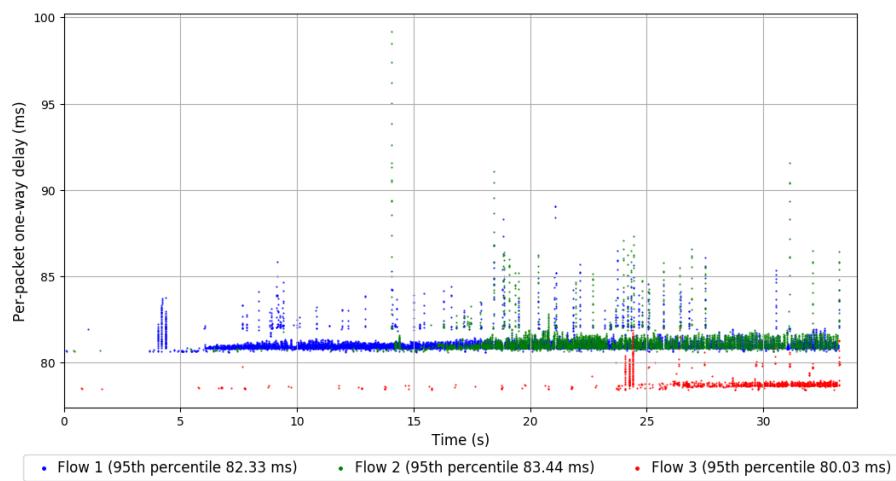
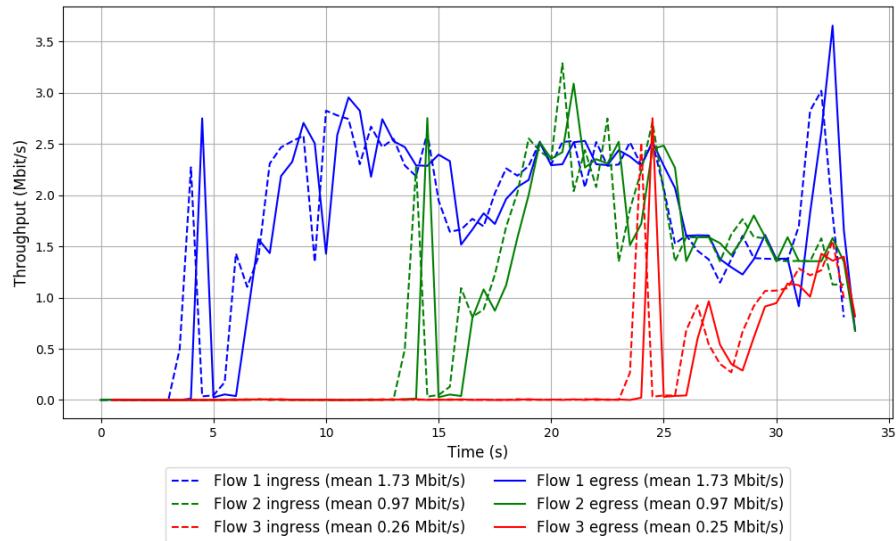


Run 4: Statistics of WebRTC media

```
Start at: 2018-06-19 10:04:48
End at: 2018-06-19 10:05:18
Local clock offset: -1.589 ms
Remote clock offset: 7.891 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 82.439 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 82.326 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 83.439 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 80.029 ms
Loss rate: 2.52%
```

Run 4: Report of WebRTC media — Data Link

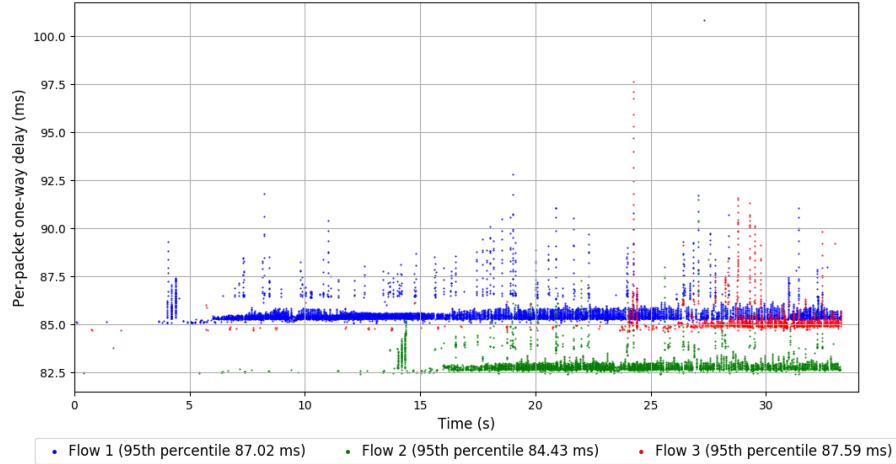
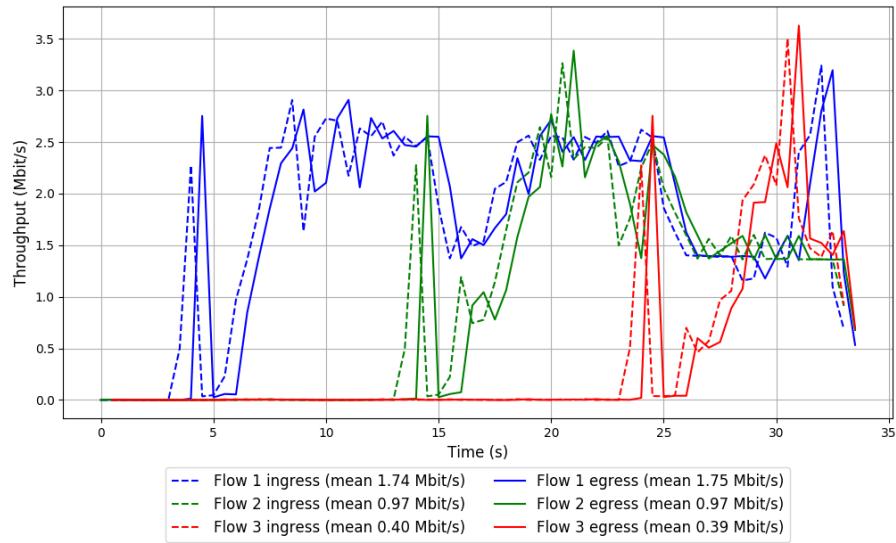


Run 5: Statistics of WebRTC media

```
Start at: 2018-06-19 10:24:38
End at: 2018-06-19 10:25:08
Local clock offset: -1.784 ms
Remote clock offset: 3.58 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 86.682 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 87.021 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 84.428 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 87.587 ms
Loss rate: 1.78%
```

Run 5: Report of WebRTC media — Data Link

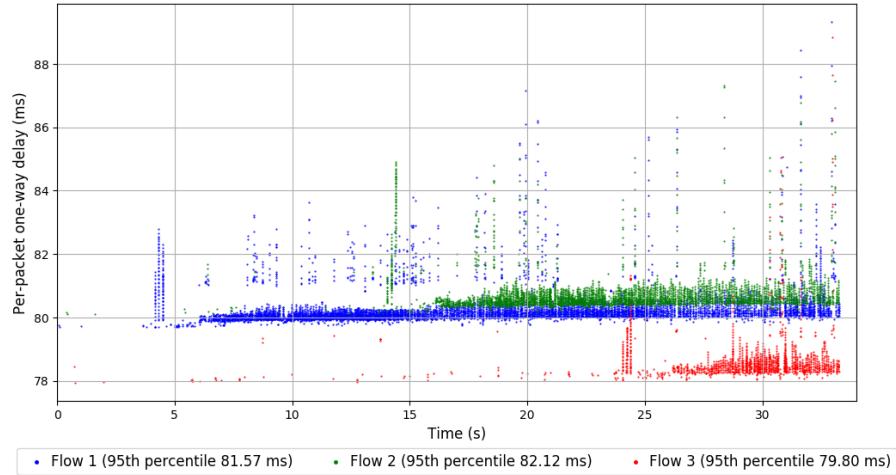
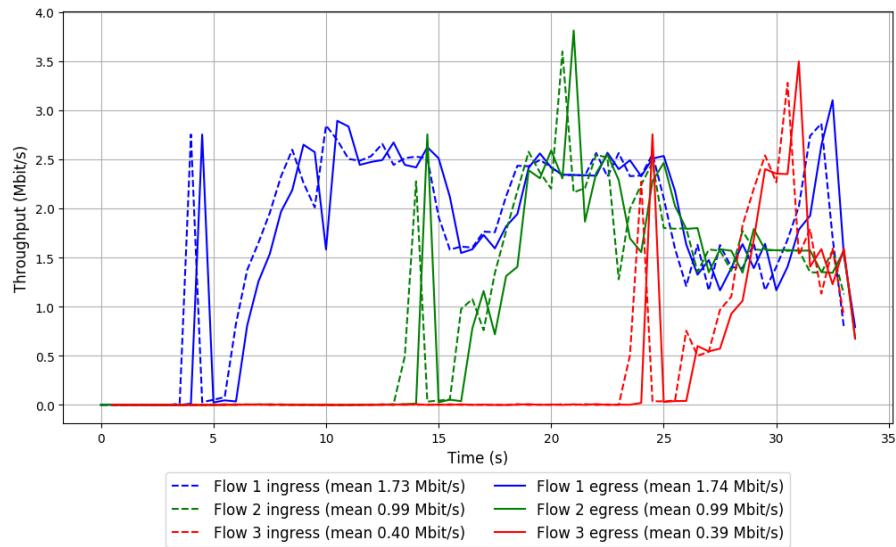


Run 6: Statistics of WebRTC media

```
Start at: 2018-06-19 10:44:29
End at: 2018-06-19 10:44:59
Local clock offset: -1.622 ms
Remote clock offset: 12.231 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 81.670 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 81.569 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 82.122 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 79.801 ms
Loss rate: 1.74%
```

Run 6: Report of WebRTC media — Data Link

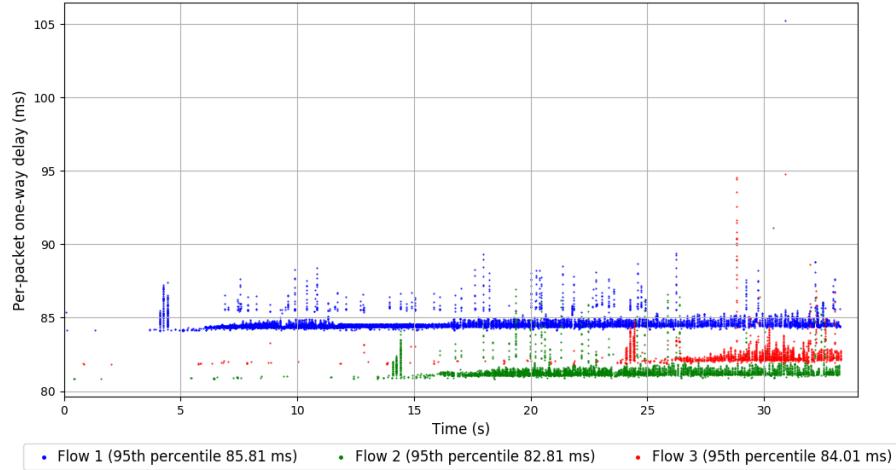
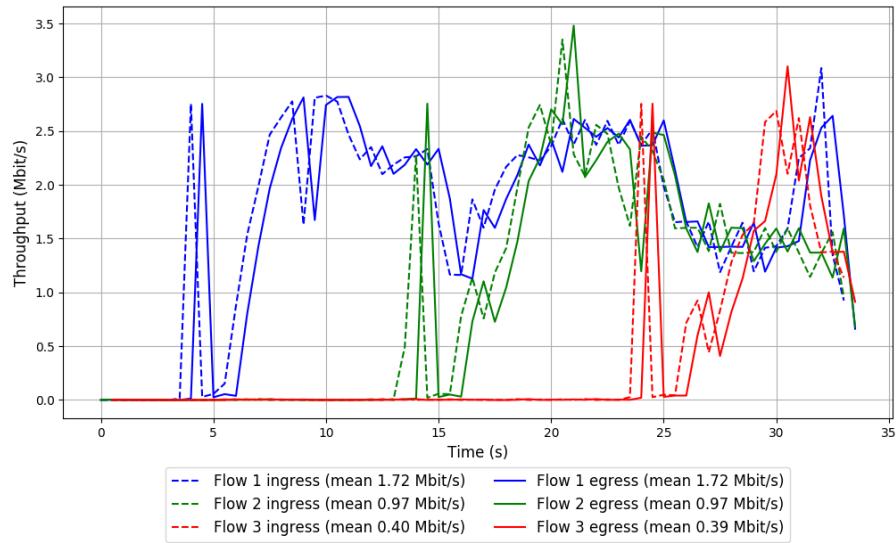


Run 7: Statistics of WebRTC media

```
Start at: 2018-06-19 11:04:28
End at: 2018-06-19 11:04:58
Local clock offset: -1.465 ms
Remote clock offset: 11.665 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 85.470 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 85.814 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 82.813 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 84.008 ms
Loss rate: 1.75%
```

Run 7: Report of WebRTC media — Data Link

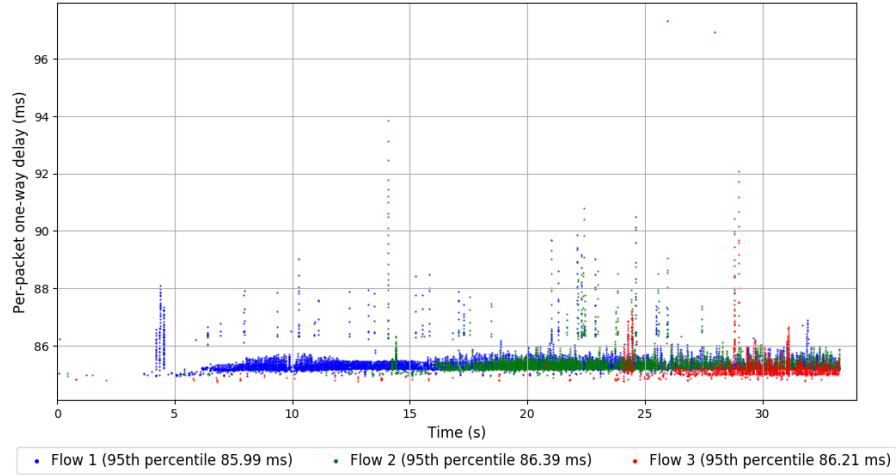
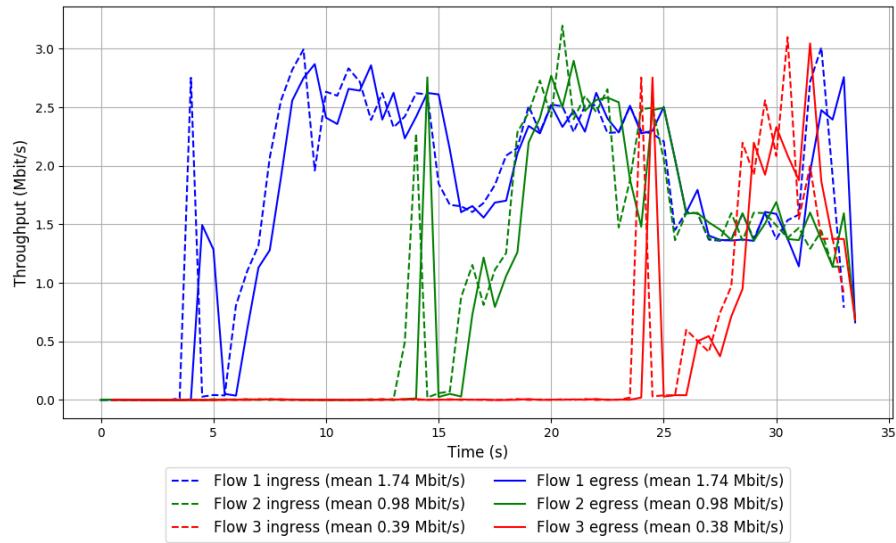


Run 8: Statistics of WebRTC media

```
Start at: 2018-06-19 11:24:15
End at: 2018-06-19 11:24:45
Local clock offset: -2.403 ms
Remote clock offset: 12.153 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 86.171 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 85.992 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 86.392 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 86.209 ms
Loss rate: 1.80%
```

Run 8: Report of WebRTC media — Data Link

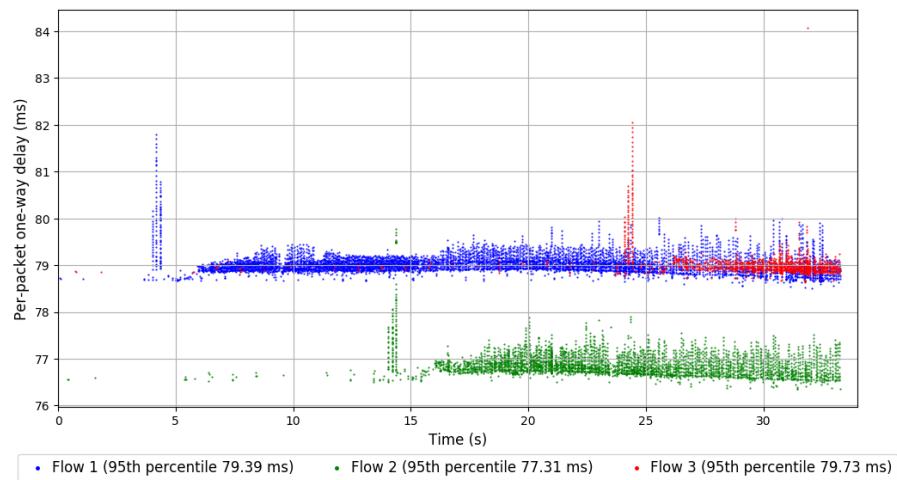
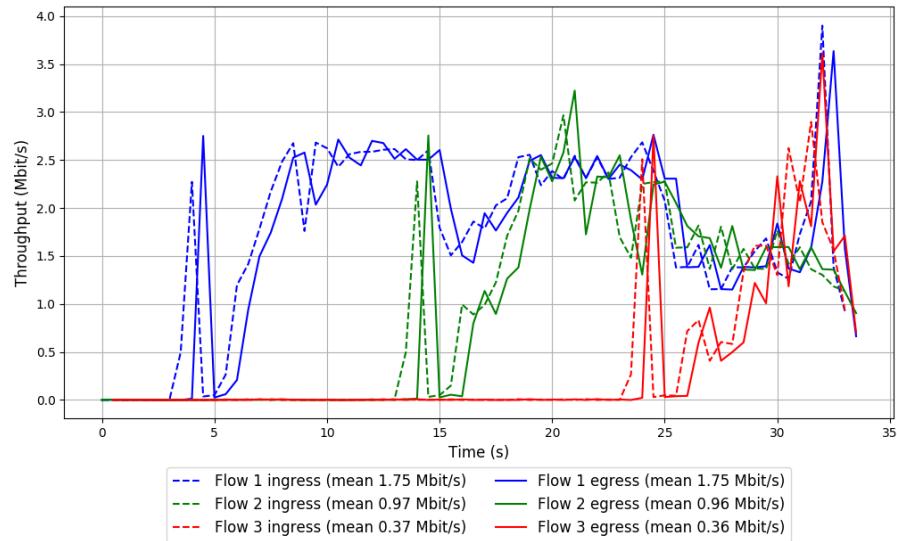


Run 9: Statistics of WebRTC media

```
Start at: 2018-06-19 11:44:30
End at: 2018-06-19 11:45:00
Local clock offset: -2.892 ms
Remote clock offset: 19.622 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 79.335 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 79.386 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 77.307 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 79.735 ms
Loss rate: 1.95%
```

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

```
Start at: 2018-06-19 12:04:32
End at: 2018-06-19 12:05:02
Local clock offset: -3.188 ms
Remote clock offset: 9.079 ms

# Below is generated by plot.py at 2018-06-19 12:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 80.534 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 78.612 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 80.809 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 80.258 ms
Loss rate: 2.11%
```

Run 10: Report of WebRTC media — Data Link

