

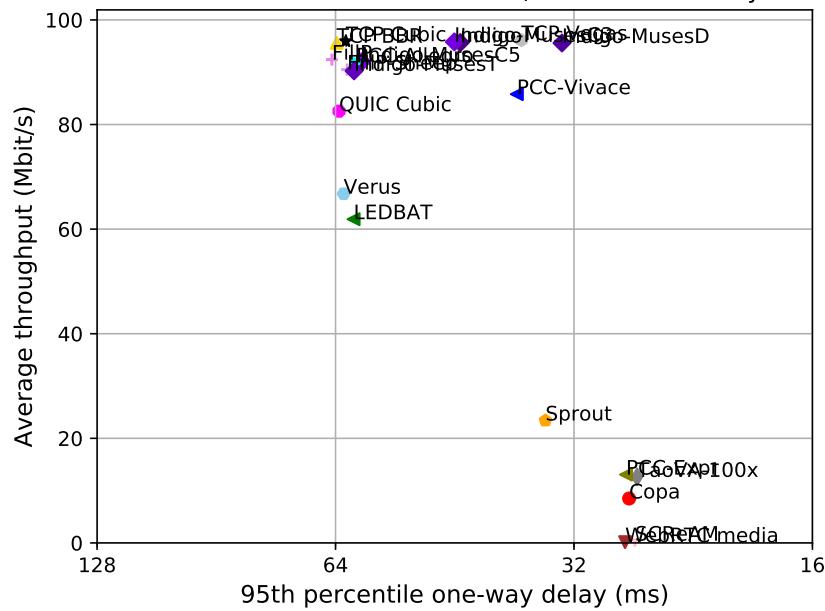
## Pantheon Report

Generated at 2019-02-05 09:41:28 (UTC).  
Data path: AWS California 2 on `ens5` (*local*) → Mexico on `em1` (*remote*).  
Repeated the test of 21 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.  
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

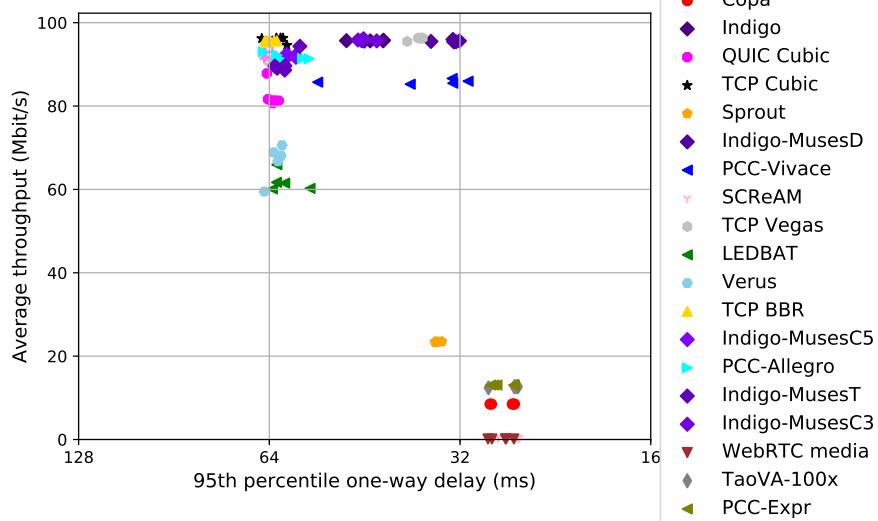
```
System info:  
Linux 4.15.0-1031-aws  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee  
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966  
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd  
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  
M src/examples/cellsim.cc  
M src/examples/sproutbt2.cc  
M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
M src/verus.hpp  
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS California 2 to Mexico, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS California 2 to Mexico, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows



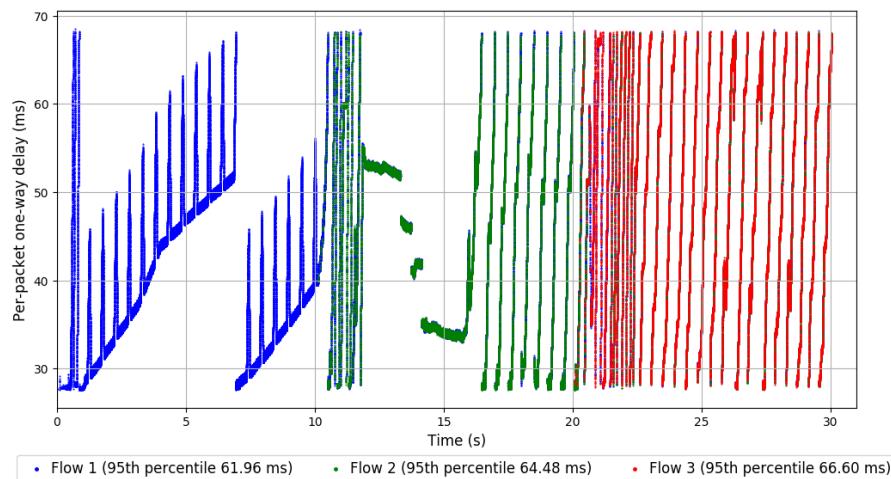
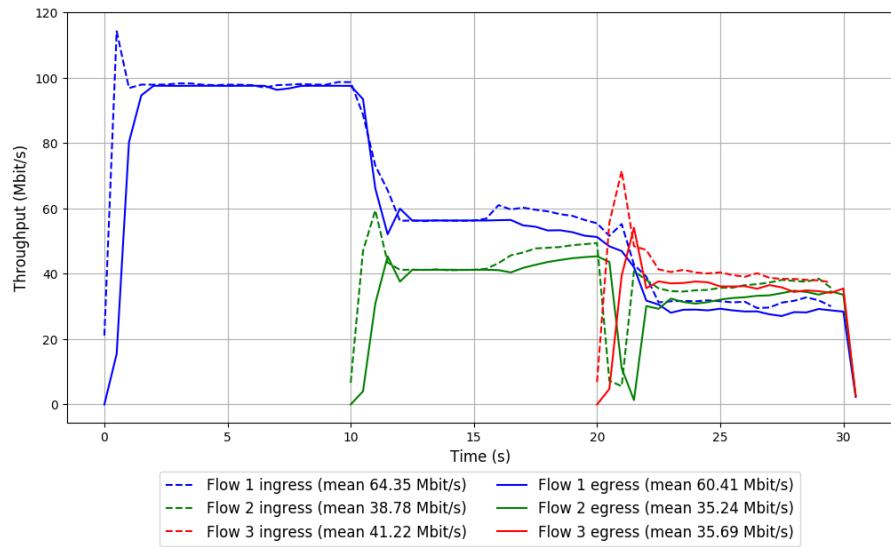
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	60.63	37.28	30.60	62.35	64.67	65.39	6.31	10.65	11.09
Copa	5	0.00	10.25	5.04	26.90	27.58	26.96	98.59	71.21	79.41
TCP Cubic	5	71.69	25.05	22.76	61.48	62.98	62.31	0.89	0.63	0.82
FillP	5	58.44	41.47	19.69	63.39	65.64	64.89	29.19	47.43	52.39
FillP-Sheep	5	55.20	42.46	21.36	60.03	63.45	62.36	9.35	17.24	17.73
Indigo	5	64.48	30.39	33.83	40.74	47.43	49.95	0.01	0.07	0.05
Indigo-MusesC3	5	52.79	51.18	32.39	41.59	45.21	54.01	0.22	0.39	2.30
Indigo-MusesC5	5	58.28	50.66	2.67	57.68	60.96	61.96	11.07	18.21	28.27
Indigo-MusesD	5	56.10	41.55	41.87	32.84	32.79	33.97	0.10	0.01	0.01
Indigo-MusesT	5	56.78	47.90	7.83	57.96	62.23	62.22	18.26	32.14	30.53
LEDBAT	5	41.02	20.93	21.01	60.46	61.89	51.82	0.21	0.21	0.04
PCC-Allegro	5	82.11	11.56	6.28	60.06	62.05	60.35	5.06	6.31	5.25
PCC-Expr	5	8.70	4.60	3.91	27.49	27.53	27.54	42.75	35.53	34.57
QUIC Cubic	5	59.50	27.36	14.86	63.19	63.63	63.57	2.88	1.17	1.12
SCReAM	5	0.21	0.21	0.22	26.79	26.79	26.78	0.00	0.00	0.00
Sprout	5	11.80	11.73	11.52	34.36	34.96	35.60	0.07	0.14	0.19
TaoVA-100x	5	7.19	6.58	4.60	27.23	27.86	30.47	82.95	67.70	83.53
TCP Vegas	5	76.71	19.57	19.22	37.65	35.08	33.83	0.34	0.00	0.00
Verus	5	44.71	25.25	17.26	62.61	62.03	61.04	31.63	28.19	32.96
PCC-Vivace	5	65.09	25.03	12.32	37.38	37.68	37.22	0.00	0.00	0.00
WebRTC media	5	0.05	0.05	0.05	27.53	27.56	27.67	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-05 07:24:03
End at: 2019-02-05 07:24:33
Local clock offset: 7.167 ms
Remote clock offset: -7.357 ms

# Below is generated by plot.py at 2019-02-05 09:31:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 64.064 ms
Loss rate: 7.72%
-- Flow 1:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 61.957 ms
Loss rate: 6.03%
-- Flow 2:
Average throughput: 35.24 Mbit/s
95th percentile per-packet one-way delay: 64.479 ms
Loss rate: 9.06%
-- Flow 3:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 66.601 ms
Loss rate: 13.17%
```

## Run 1: Report of TCP BBR — Data Link

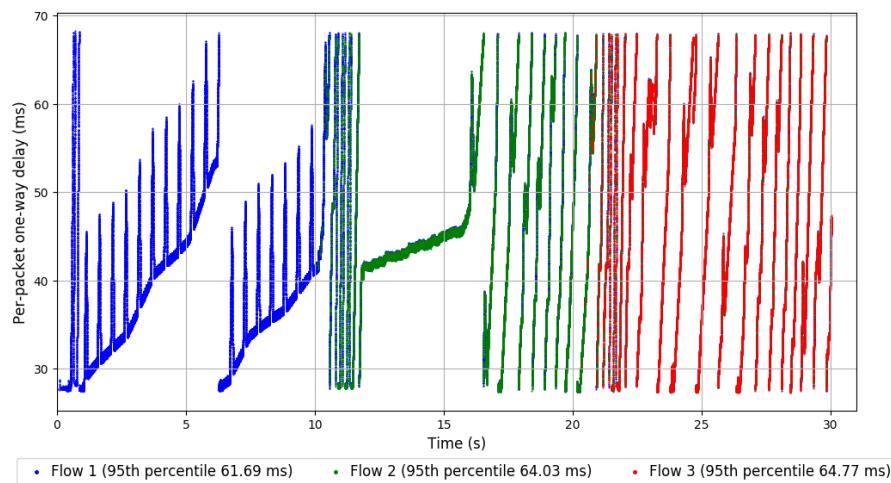
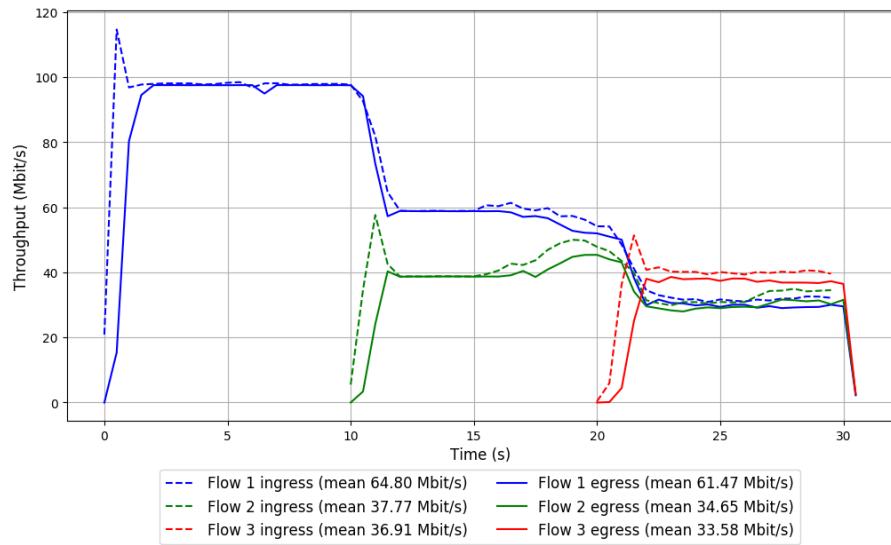


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-05 07:49:33
End at: 2019-02-05 07:50:03
Local clock offset: 4.945 ms
Remote clock offset: -6.664 ms

# Below is generated by plot.py at 2019-02-05 09:31:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 62.892 ms
Loss rate: 6.34%
-- Flow 1:
Average throughput: 61.47 Mbit/s
95th percentile per-packet one-way delay: 61.685 ms
Loss rate: 5.08%
-- Flow 2:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 64.025 ms
Loss rate: 8.25%
-- Flow 3:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 64.769 ms
Loss rate: 9.11%
```

## Run 2: Report of TCP BBR — Data Link

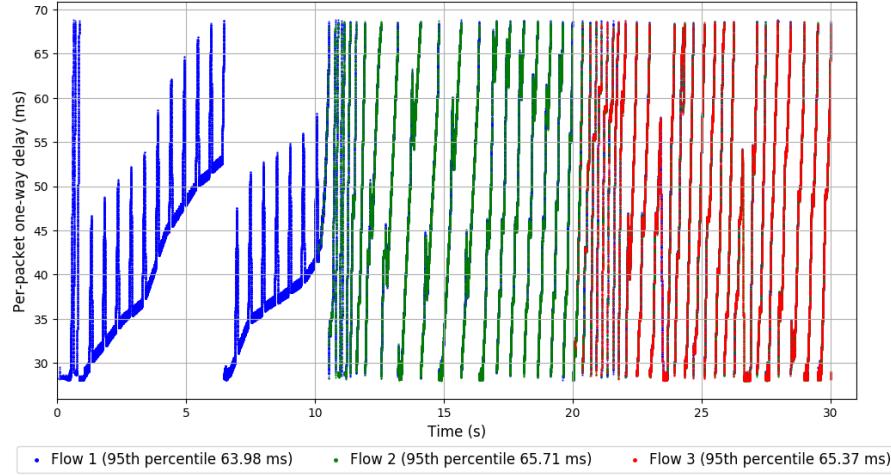
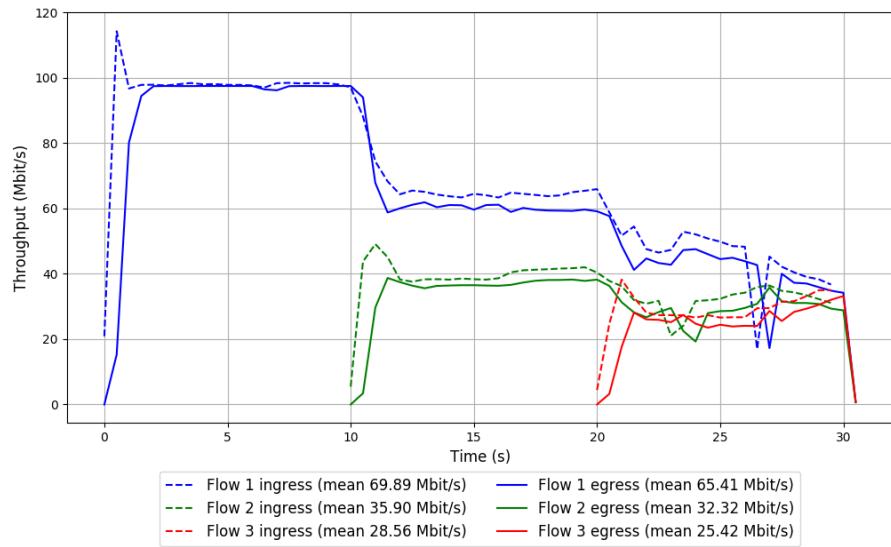


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-05 08:15:12
End at: 2019-02-05 08:15:42
Local clock offset: 0.587 ms
Remote clock offset: -5.483 ms

# Below is generated by plot.py at 2019-02-05 09:31:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 64.701 ms
Loss rate: 7.69%
-- Flow 1:
Average throughput: 65.41 Mbit/s
95th percentile per-packet one-way delay: 63.983 ms
Loss rate: 6.42%
-- Flow 2:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 65.706 ms
Loss rate: 10.10%
-- Flow 3:
Average throughput: 25.42 Mbit/s
95th percentile per-packet one-way delay: 65.372 ms
Loss rate: 11.03%
```

### Run 3: Report of TCP BBR — Data Link

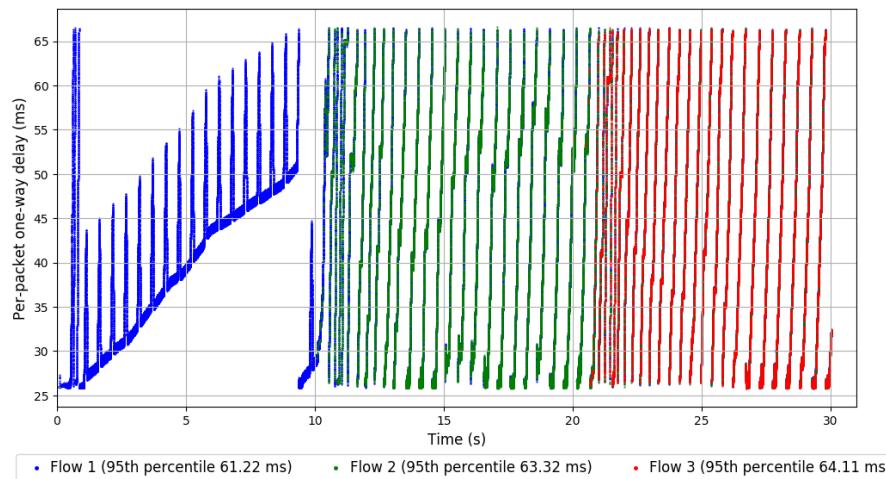
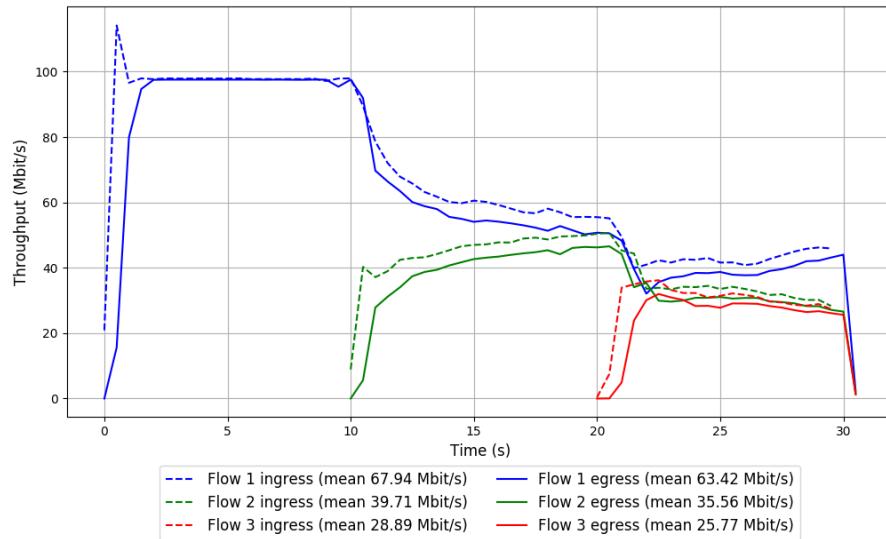


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-05 08:40:46
End at: 2019-02-05 08:41:16
Local clock offset: -0.33 ms
Remote clock offset: -7.061 ms

# Below is generated by plot.py at 2019-02-05 09:31:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 62.277 ms
Loss rate: 8.01%
-- Flow 1:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 61.215 ms
Loss rate: 6.64%
-- Flow 2:
Average throughput: 35.56 Mbit/s
95th percentile per-packet one-way delay: 63.316 ms
Loss rate: 10.43%
-- Flow 3:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 64.112 ms
Loss rate: 10.99%
```

## Run 4: Report of TCP BBR — Data Link

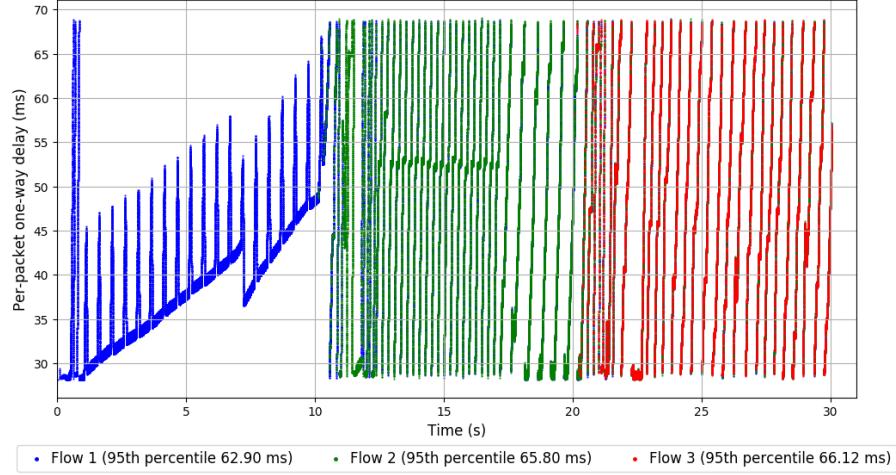
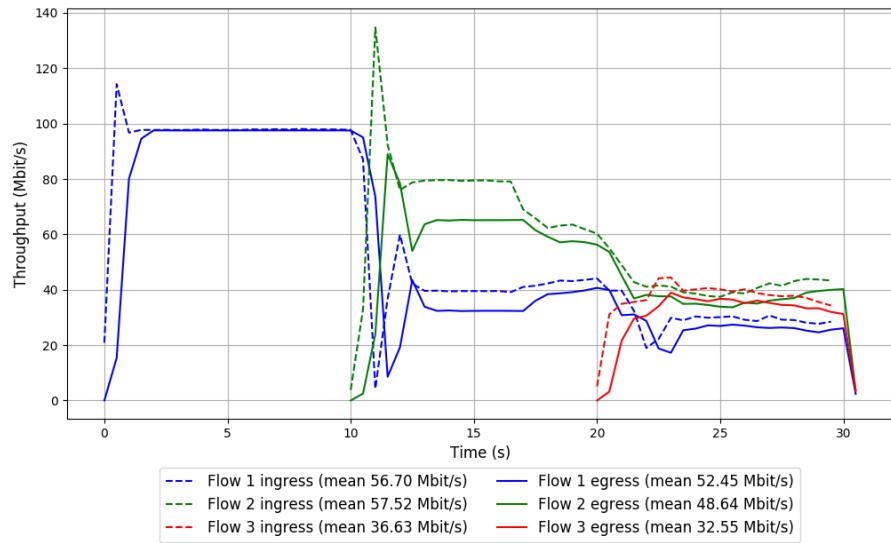


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-05 09:06:05
End at: 2019-02-05 09:06:35
Local clock offset: -0.623 ms
Remote clock offset: -4.41 ms

# Below is generated by plot.py at 2019-02-05 09:31:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 65.043 ms
Loss rate: 10.69%
-- Flow 1:
Average throughput: 52.45 Mbit/s
95th percentile per-packet one-way delay: 62.902 ms
Loss rate: 7.40%
-- Flow 2:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 65.803 ms
Loss rate: 15.41%
-- Flow 3:
Average throughput: 32.55 Mbit/s
95th percentile per-packet one-way delay: 66.120 ms
Loss rate: 11.14%
```

## Run 5: Report of TCP BBR — Data Link

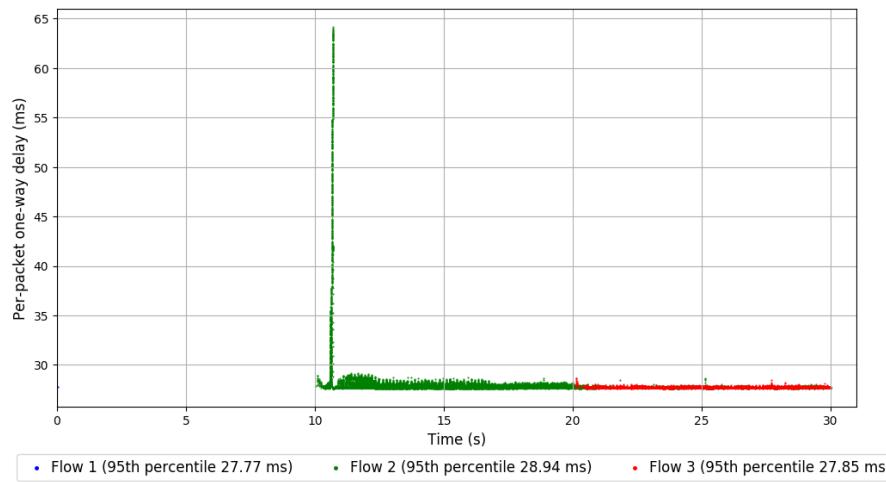
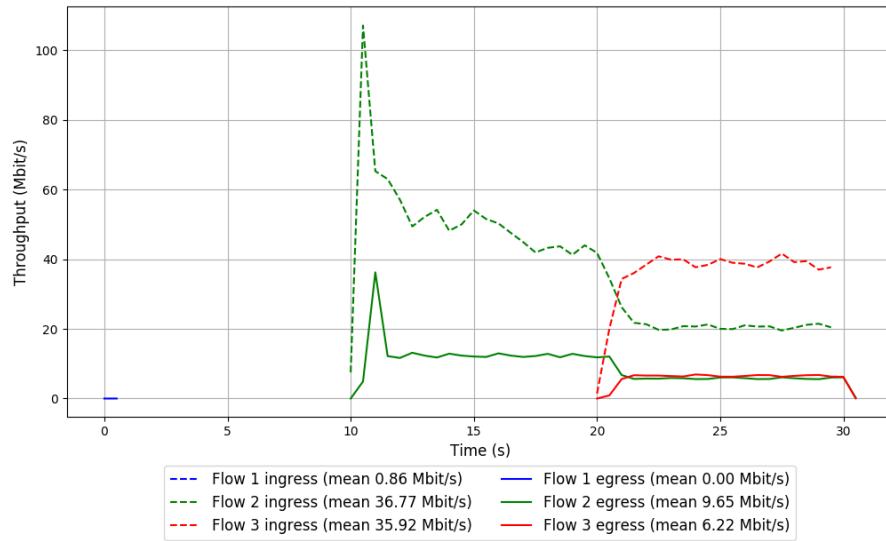


Run 1: Statistics of Copa

```
Start at: 2019-02-05 07:31:17
End at: 2019-02-05 07:31:47
Local clock offset: 6.724 ms
Remote clock offset: -7.269 ms

# Below is generated by plot.py at 2019-02-05 09:31:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 28.540 ms
Loss rate: 76.68%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 27.768 ms
Loss rate: 98.33%
-- Flow 2:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 28.943 ms
Loss rate: 73.74%
-- Flow 3:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 27.849 ms
Loss rate: 82.69%
```

## Run 1: Report of Copa — Data Link

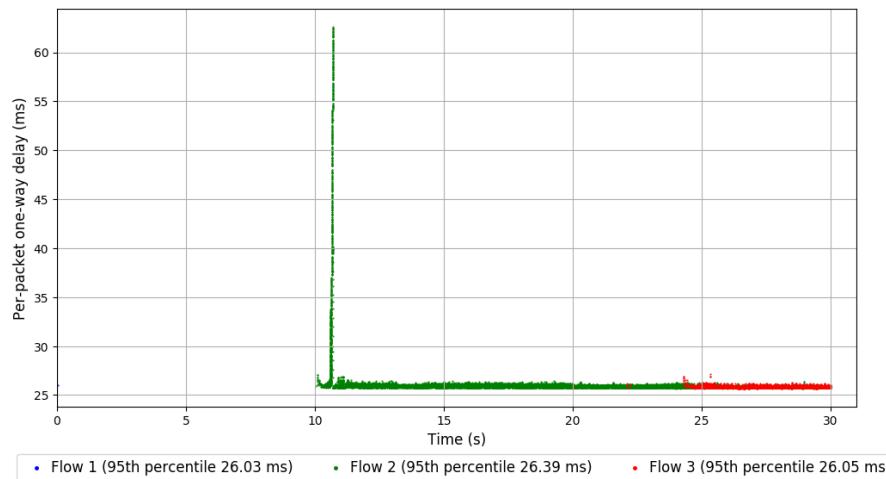
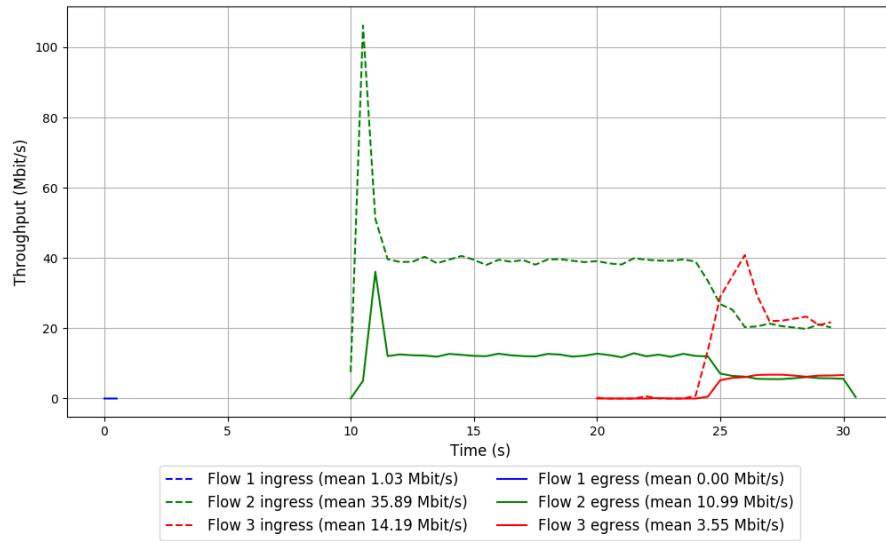


Run 2: Statistics of Copa

```
Start at: 2019-02-05 07:56:47
End at: 2019-02-05 07:57:17
Local clock offset: 2.736 ms
Remote clock offset: -8.233 ms

# Below is generated by plot.py at 2019-02-05 09:31:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 26.258 ms
Loss rate: 70.31%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 26.029 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 10.99 Mbit/s
95th percentile per-packet one-way delay: 26.387 ms
Loss rate: 69.38%
-- Flow 3:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 26.054 ms
Loss rate: 74.97%
```

## Run 2: Report of Copa — Data Link

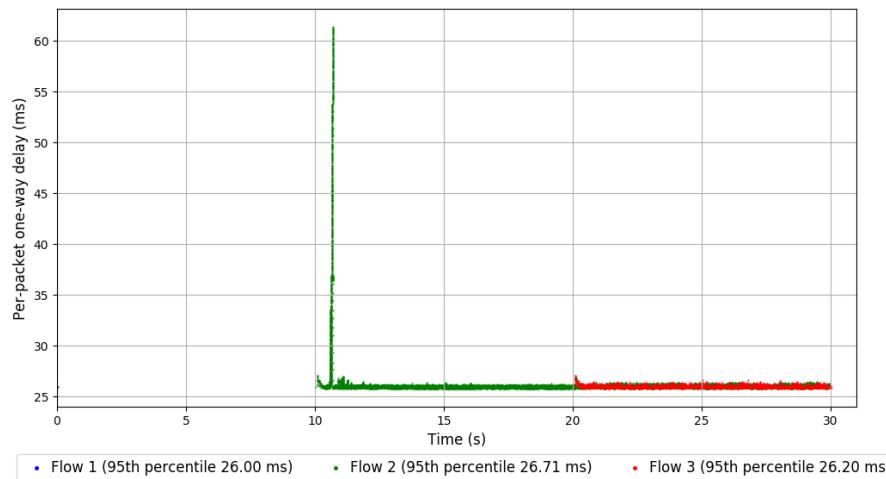
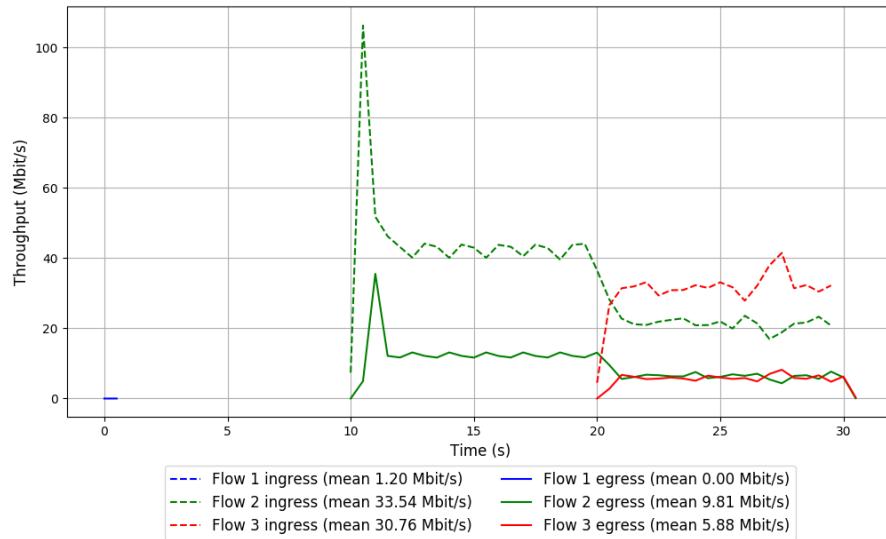


Run 3: Statistics of Copa

```
Start at: 2019-02-05 08:22:42
End at: 2019-02-05 08:23:12
Local clock offset: 0.381 ms
Remote clock offset: -7.612 ms

# Below is generated by plot.py at 2019-02-05 09:31:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 26.345 ms
Loss rate: 73.93%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 25.997 ms
Loss rate: 98.80%
-- Flow 2:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 26.711 ms
Loss rate: 70.75%
-- Flow 3:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 26.205 ms
Loss rate: 80.88%
```

### Run 3: Report of Copa — Data Link

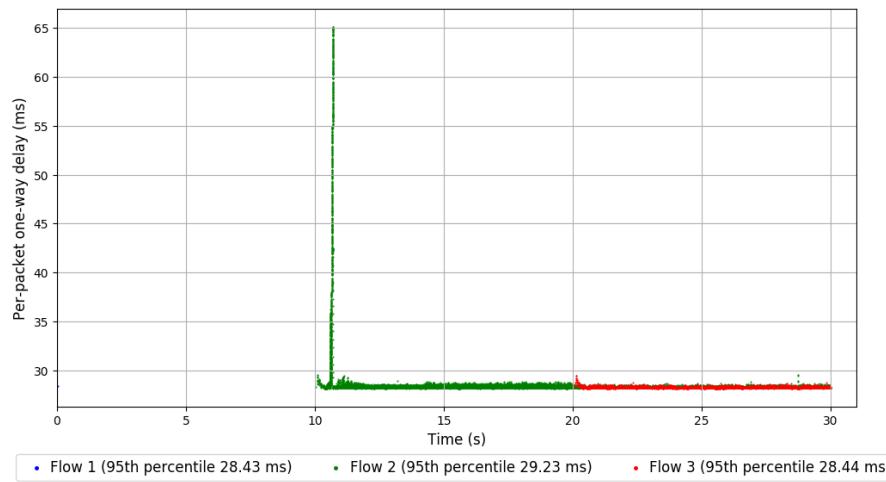
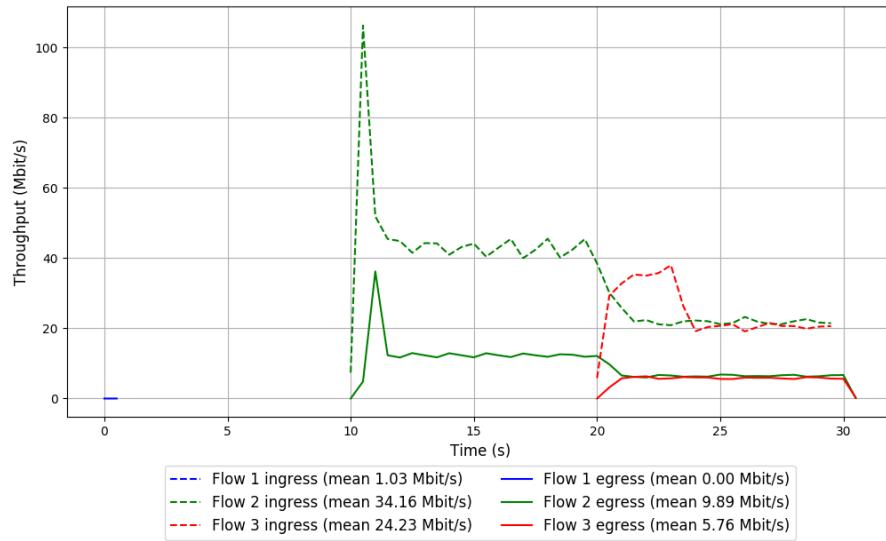


Run 4: Statistics of Copa

```
Start at: 2019-02-05 08:48:01
End at: 2019-02-05 08:48:31
Local clock offset: -0.487 ms
Remote clock offset: -4.514 ms

# Below is generated by plot.py at 2019-02-05 09:31:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 28.700 ms
Loss rate: 72.41%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 28.431 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 29.227 ms
Loss rate: 71.05%
-- Flow 3:
Average throughput: 5.76 Mbit/s
95th percentile per-packet one-way delay: 28.439 ms
Loss rate: 76.23%
```

## Run 4: Report of Copa — Data Link

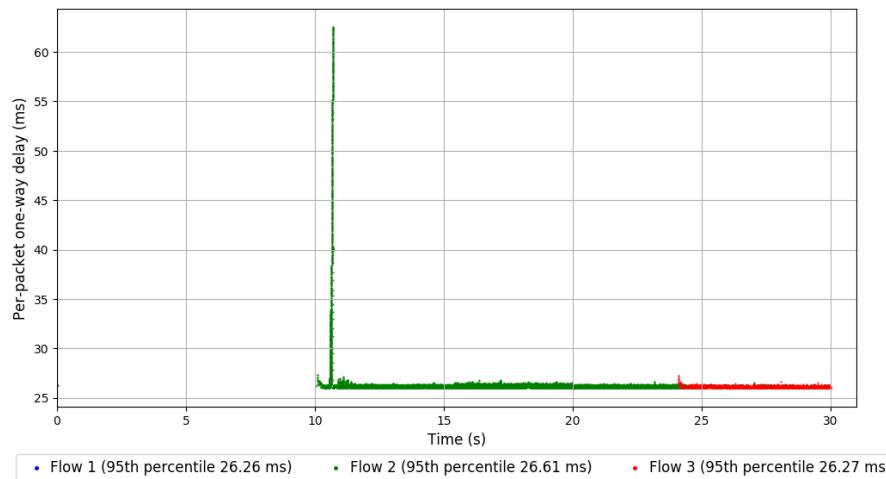
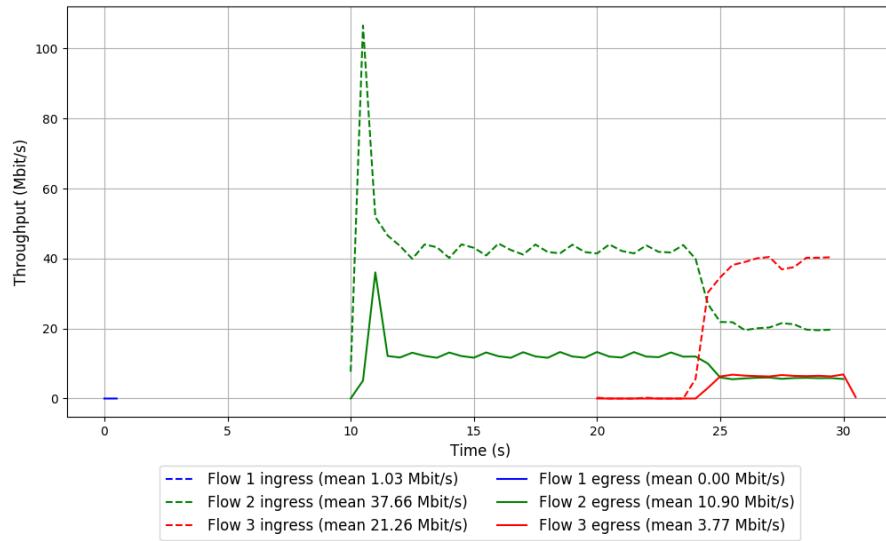


Run 5: Statistics of Copa

```
Start at: 2019-02-05 09:13:22
End at: 2019-02-05 09:13:52
Local clock offset: -0.876 ms
Remote clock offset: -6.558 ms

# Below is generated by plot.py at 2019-02-05 09:31:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 26.466 ms
Loss rate: 73.57%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 26.256 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 26.615 ms
Loss rate: 71.11%
-- Flow 3:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 26.267 ms
Loss rate: 82.29%
```

## Run 5: Report of Copa — Data Link

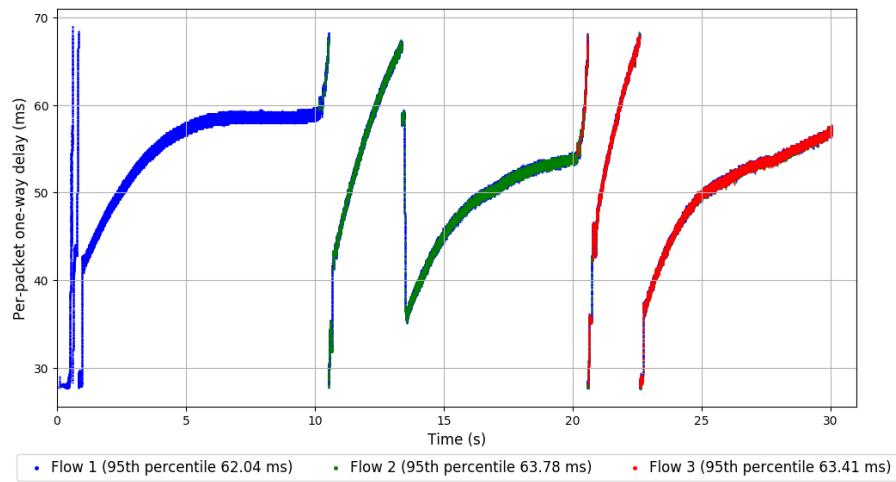
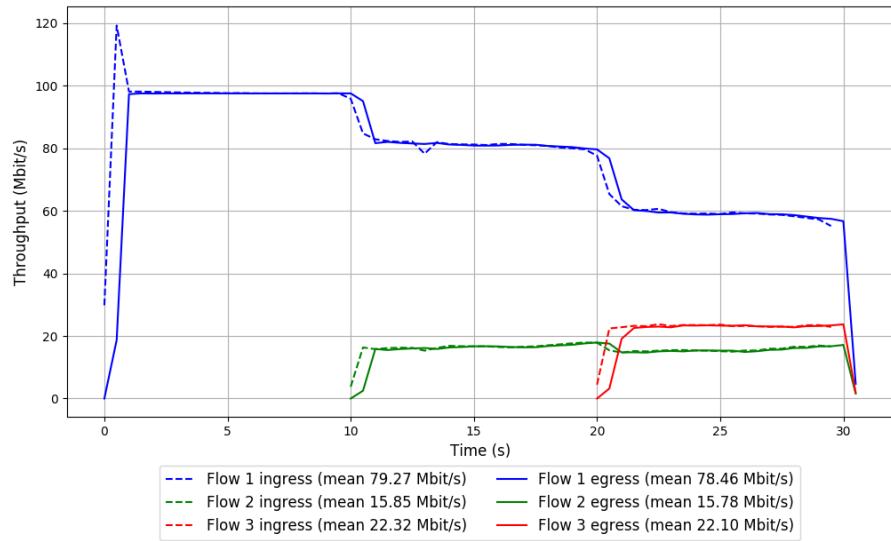


```
Run 1: Statistics of TCP Cubic

Start at: 2019-02-05 07:45:52
End at: 2019-02-05 07:46:22
Local clock offset: 6.685 ms
Remote clock offset: -6.555 ms

# Below is generated by plot.py at 2019-02-05 09:31:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 62.363 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 62.036 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 63.778 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 63.405 ms
Loss rate: 0.96%
```

Run 1: Report of TCP Cubic — Data Link

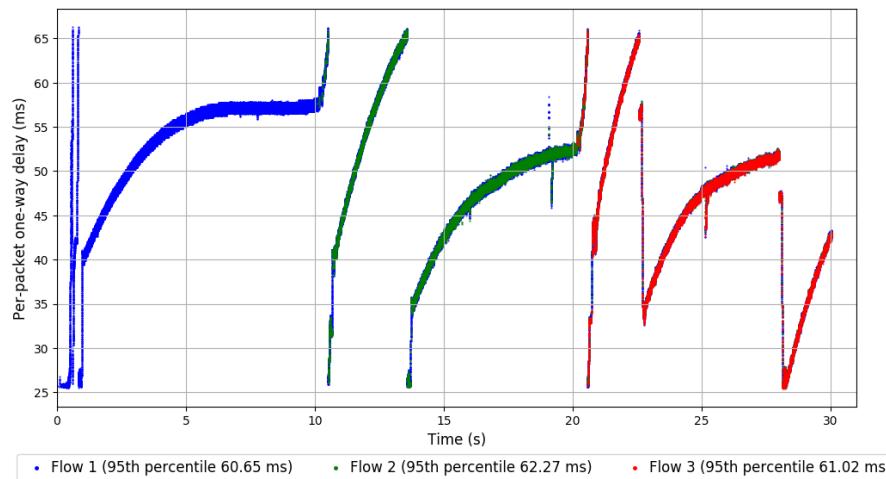
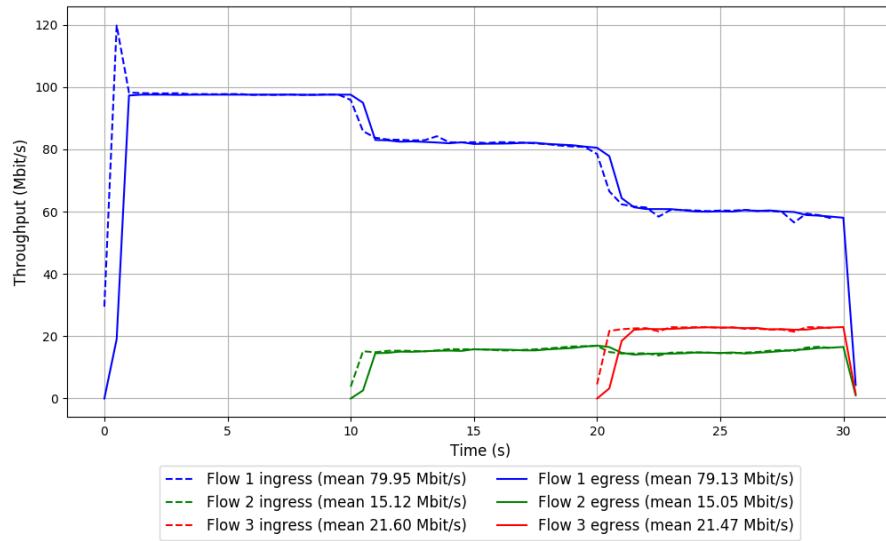


```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2019-02-05 08:11:29
End at: 2019-02-05 08:11:59
Local clock offset: 0.856 ms
Remote clock offset: -8.152 ms

# Below is generated by plot.py at 2019-02-05 09:31:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 60.906 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 79.13 Mbit/s
95th percentile per-packet one-way delay: 60.654 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 15.05 Mbit/s
95th percentile per-packet one-way delay: 62.268 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 61.017 ms
Loss rate: 0.71%
```

## Run 2: Report of TCP Cubic — Data Link

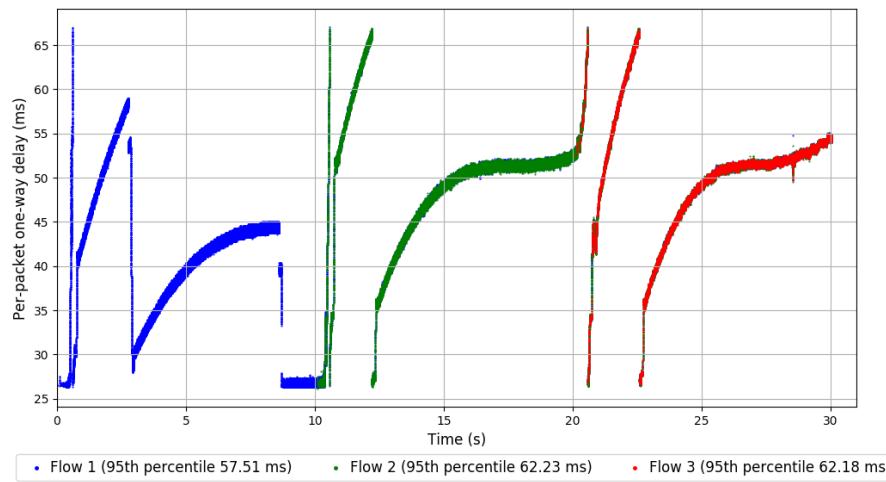
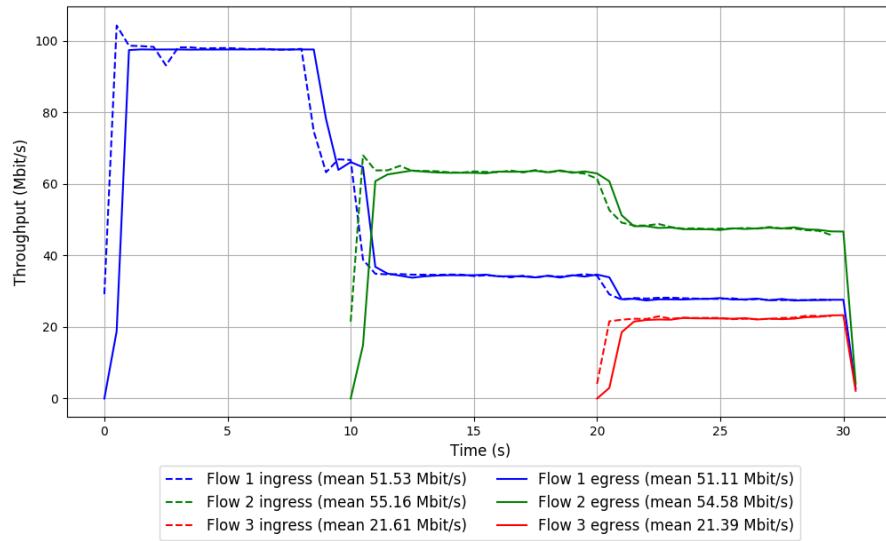


```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2019-02-05 08:37:05
End at: 2019-02-05 08:37:35
Local clock offset: -0.112 ms
Remote clock offset: -6.732 ms

# Below is generated by plot.py at 2019-02-05 09:31:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.59 Mbit/s
95th percentile per-packet one-way delay: 60.050 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 57.509 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 54.58 Mbit/s
95th percentile per-packet one-way delay: 62.229 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 62.182 ms
Loss rate: 0.97%
```

Run 3: Report of TCP Cubic — Data Link

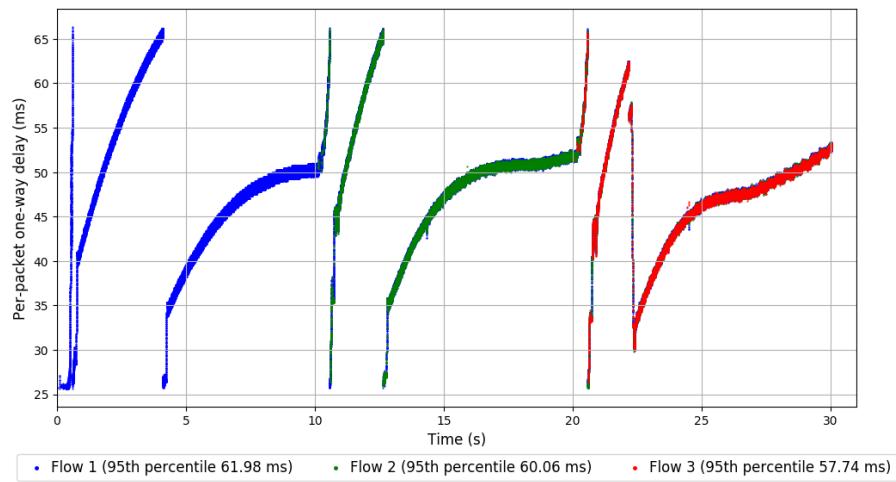
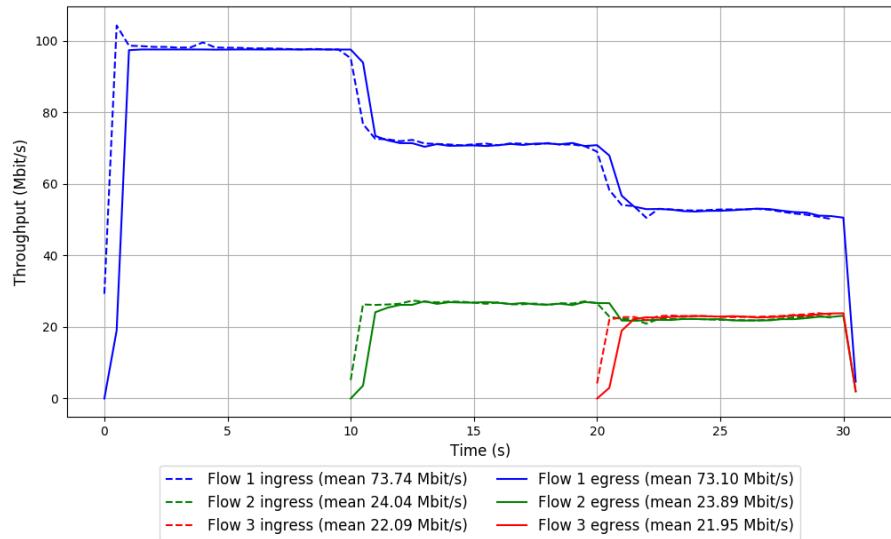


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-05 09:02:24
End at: 2019-02-05 09:02:54
Local clock offset: -0.498 ms
Remote clock offset: -7.041 ms

# Below is generated by plot.py at 2019-02-05 09:32:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 61.447 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 73.10 Mbit/s
95th percentile per-packet one-way delay: 61.984 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 60.058 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 21.95 Mbit/s
95th percentile per-packet one-way delay: 57.736 ms
Loss rate: 0.60%
```

### Run 4: Report of TCP Cubic — Data Link

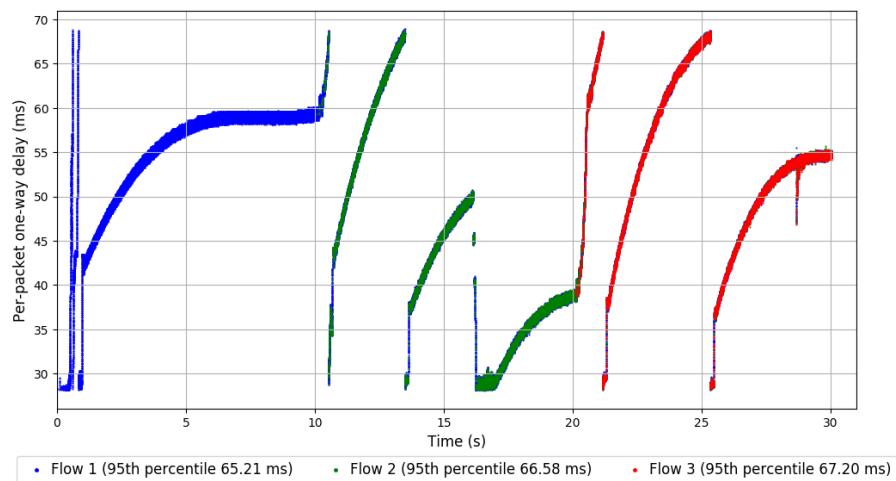
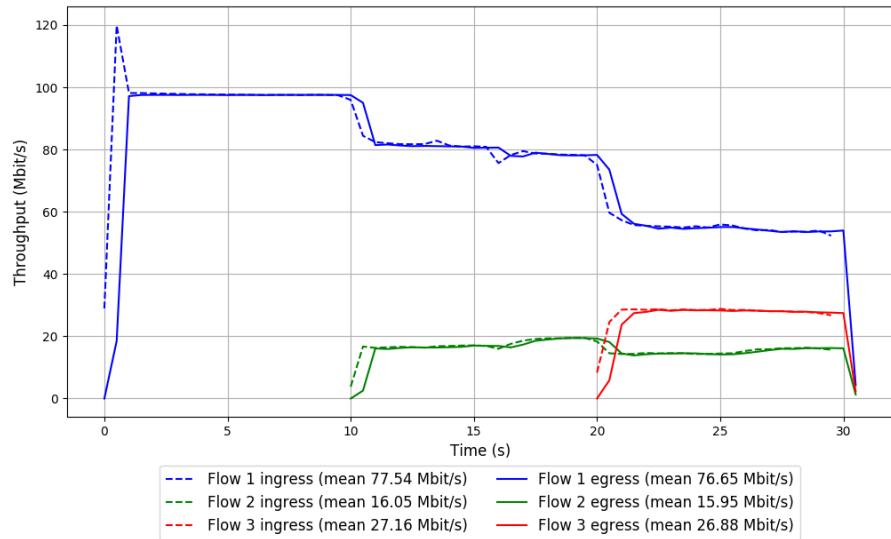


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-05 09:27:44
End at: 2019-02-05 09:28:14
Local clock offset: -0.766 ms
Remote clock offset: -4.461 ms

# Below is generated by plot.py at 2019-02-05 09:32:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 65.785 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 65.207 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 15.95 Mbit/s
95th percentile per-packet one-way delay: 66.575 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 26.88 Mbit/s
95th percentile per-packet one-way delay: 67.200 ms
Loss rate: 0.86%
```

Run 5: Report of TCP Cubic — Data Link

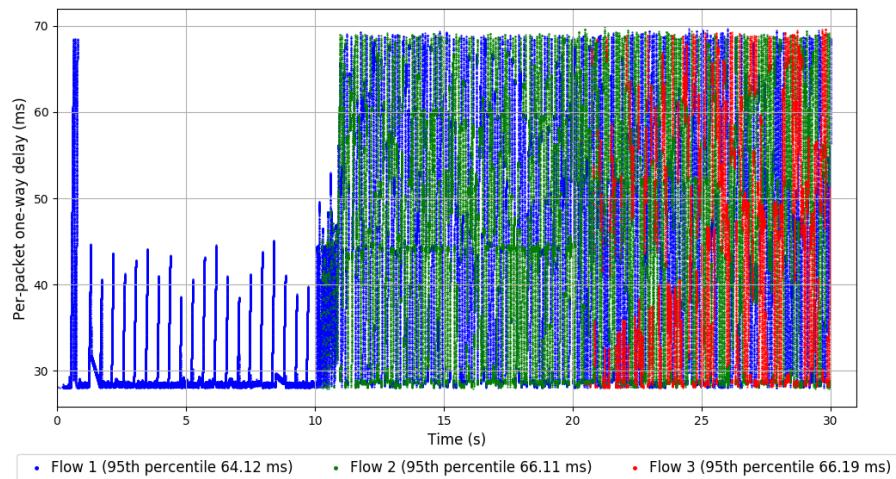
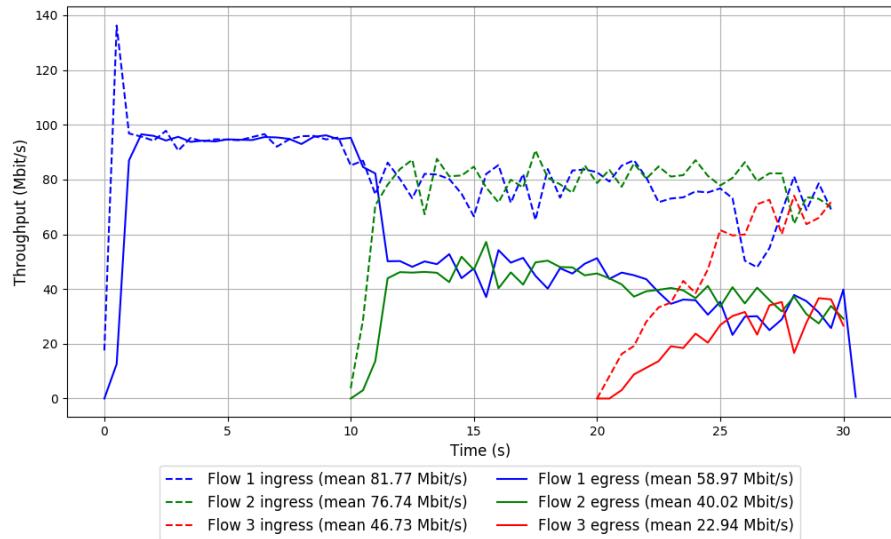


```
Run 1: Statistics of FillP

Start at: 2019-02-05 07:40:50
End at: 2019-02-05 07:41:20
Local clock offset: 6.652 ms
Remote clock offset: -6.519 ms

# Below is generated by plot.py at 2019-02-05 09:32:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 65.216 ms
Loss rate: 37.29%
-- Flow 1:
Average throughput: 58.97 Mbit/s
95th percentile per-packet one-way delay: 64.124 ms
Loss rate: 27.80%
-- Flow 2:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 66.109 ms
Loss rate: 47.94%
-- Flow 3:
Average throughput: 22.94 Mbit/s
95th percentile per-packet one-way delay: 66.193 ms
Loss rate: 52.23%
```

Run 1: Report of FillP — Data Link

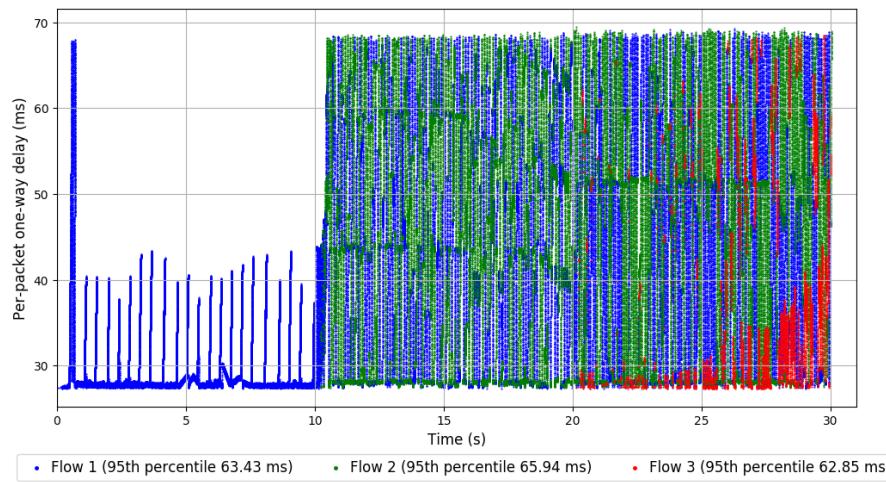
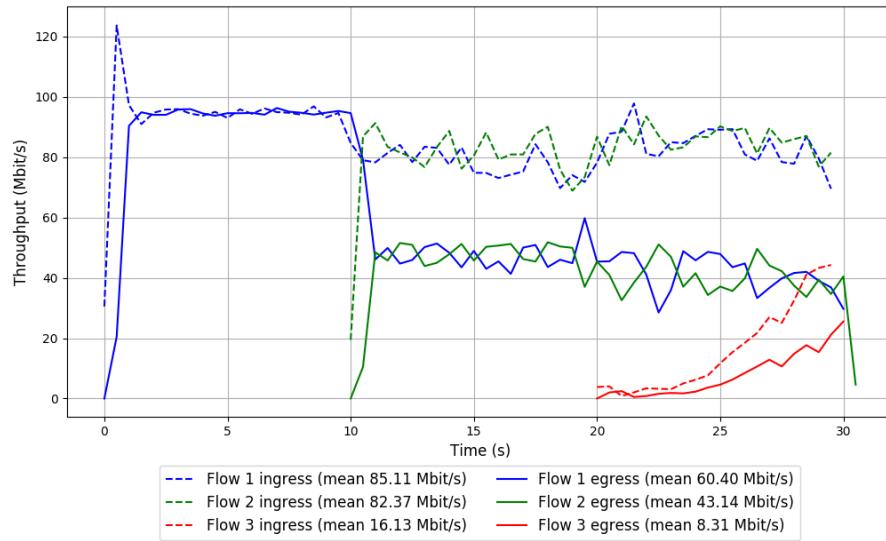


Run 2: Statistics of FillP

```
Start at: 2019-02-05 08:06:38
End at: 2019-02-05 08:07:08
Local clock offset: 1.286 ms
Remote clock offset: -6.196 ms

# Below is generated by plot.py at 2019-02-05 09:32:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.84 Mbit/s
95th percentile per-packet one-way delay: 64.796 ms
Loss rate: 36.71%
-- Flow 1:
Average throughput: 60.40 Mbit/s
95th percentile per-packet one-way delay: 63.433 ms
Loss rate: 28.99%
-- Flow 2:
Average throughput: 43.14 Mbit/s
95th percentile per-packet one-way delay: 65.944 ms
Loss rate: 47.54%
-- Flow 3:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 62.852 ms
Loss rate: 48.43%
```

## Run 2: Report of FillP — Data Link

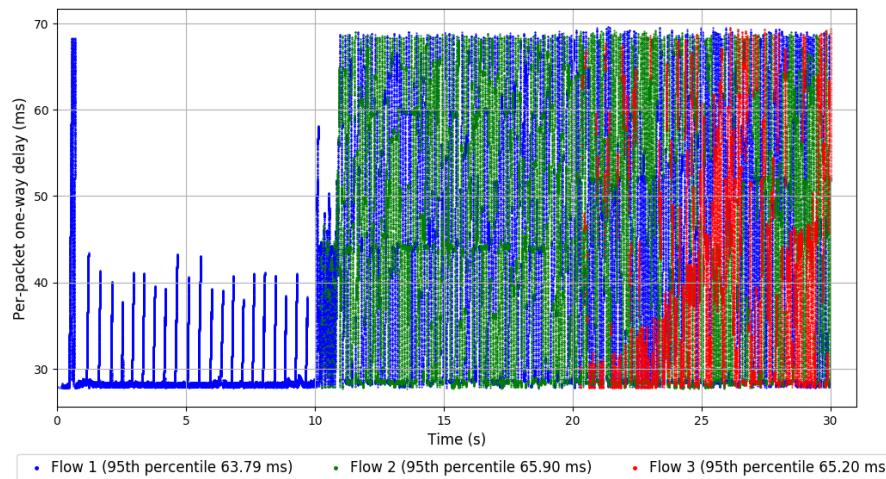
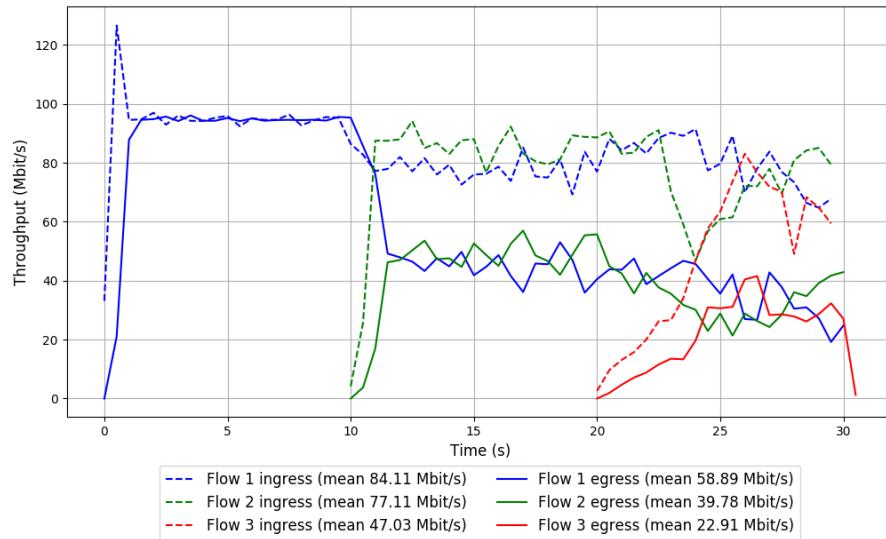


```
Run 3: Statistics of FillP
```

```
Start at: 2019-02-05 08:32:15
End at: 2019-02-05 08:32:45
Local clock offset: 0.075 ms
Remote clock offset: -5.322 ms

# Below is generated by plot.py at 2019-02-05 09:32:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.86 Mbit/s
95th percentile per-packet one-way delay: 64.888 ms
Loss rate: 38.48%
-- Flow 1:
Average throughput: 58.89 Mbit/s
95th percentile per-packet one-way delay: 63.794 ms
Loss rate: 30.06%
-- Flow 2:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 65.904 ms
Loss rate: 48.42%
-- Flow 3:
Average throughput: 22.91 Mbit/s
95th percentile per-packet one-way delay: 65.201 ms
Loss rate: 51.19%
```

### Run 3: Report of FillP — Data Link

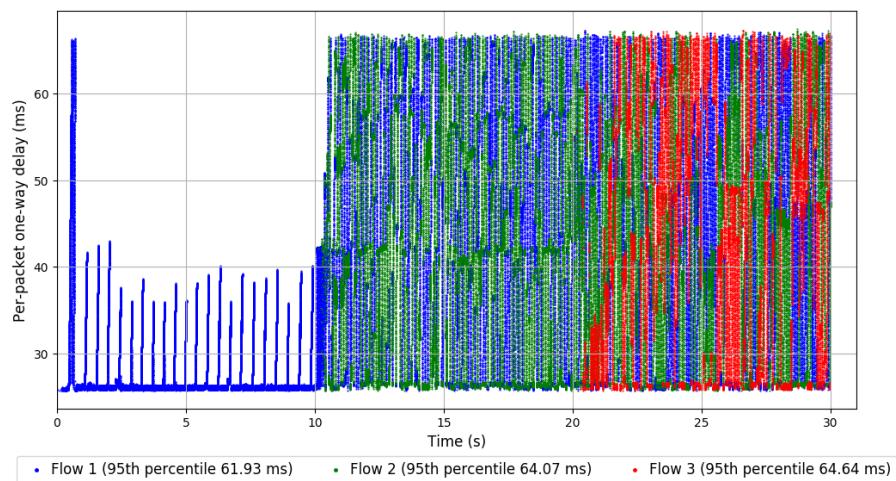
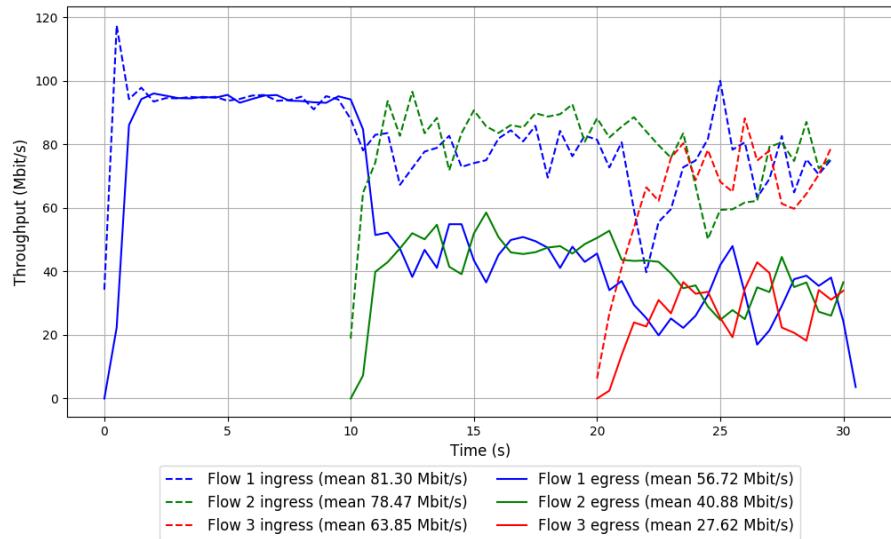


```
Run 4: Statistics of FillP
```

```
Start at: 2019-02-05 08:57:33
End at: 2019-02-05 08:58:03
Local clock offset: -0.427 ms
Remote clock offset: -6.751 ms

# Below is generated by plot.py at 2019-02-05 09:32:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 63.277 ms
Loss rate: 39.80%
-- Flow 1:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 61.930 ms
Loss rate: 30.16%
-- Flow 2:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 64.067 ms
Loss rate: 47.85%
-- Flow 3:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 64.640 ms
Loss rate: 56.98%
```

## Run 4: Report of FillP — Data Link

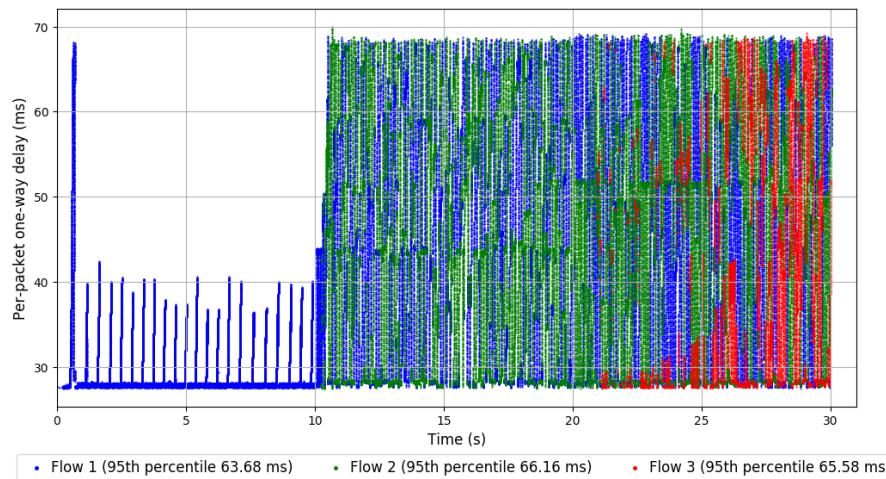
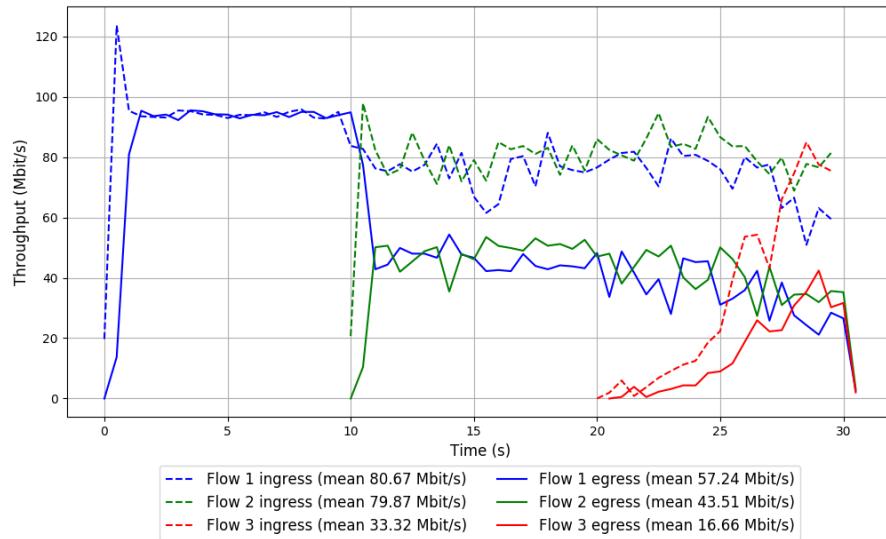


Run 5: Statistics of FillP

```
Start at: 2019-02-05 09:22:54
End at: 2019-02-05 09:23:24
Local clock offset: -0.781 ms
Remote clock offset: -4.962 ms

# Below is generated by plot.py at 2019-02-05 09:32:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 65.227 ms
Loss rate: 36.84%
-- Flow 1:
Average throughput: 57.24 Mbit/s
95th percentile per-packet one-way delay: 63.683 ms
Loss rate: 28.96%
-- Flow 2:
Average throughput: 43.51 Mbit/s
95th percentile per-packet one-way delay: 66.155 ms
Loss rate: 45.42%
-- Flow 3:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 65.585 ms
Loss rate: 53.13%
```

## Run 5: Report of FillP — Data Link

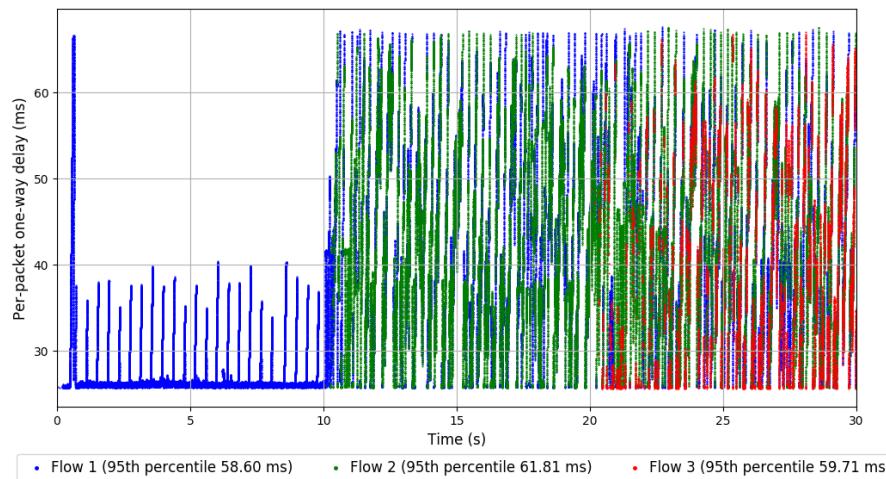
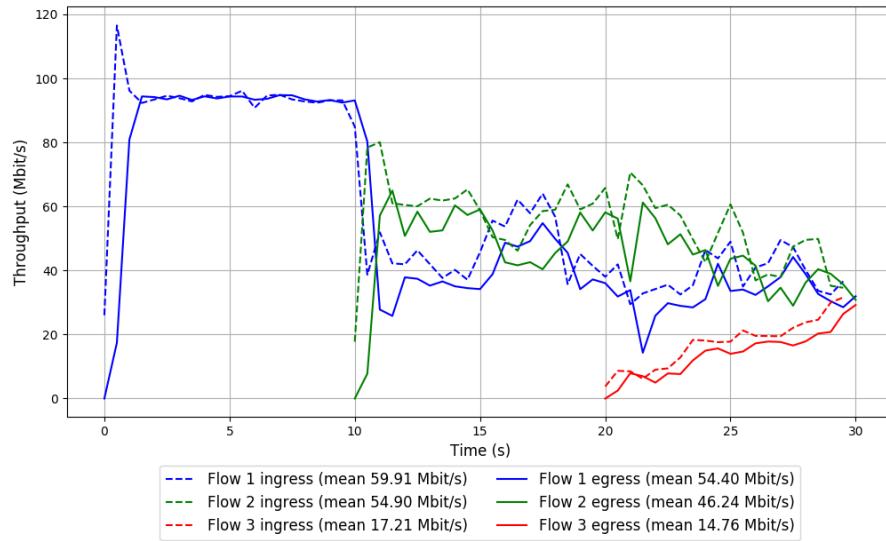


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-05 07:32:27
End at: 2019-02-05 07:32:57
Local clock offset: 6.714 ms
Remote clock offset: -9.087 ms

# Below is generated by plot.py at 2019-02-05 09:32:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 60.292 ms
Loss rate: 11.83%
-- Flow 1:
Average throughput: 54.40 Mbit/s
95th percentile per-packet one-way delay: 58.597 ms
Loss rate: 9.20%
-- Flow 2:
Average throughput: 46.24 Mbit/s
95th percentile per-packet one-way delay: 61.815 ms
Loss rate: 15.74%
-- Flow 3:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 59.713 ms
Loss rate: 14.38%
```

Run 1: Report of FillP-Sheep — Data Link

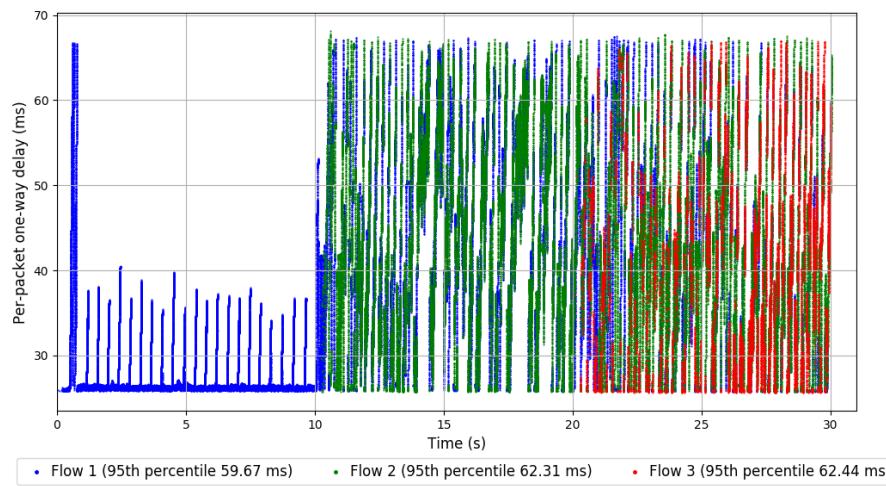
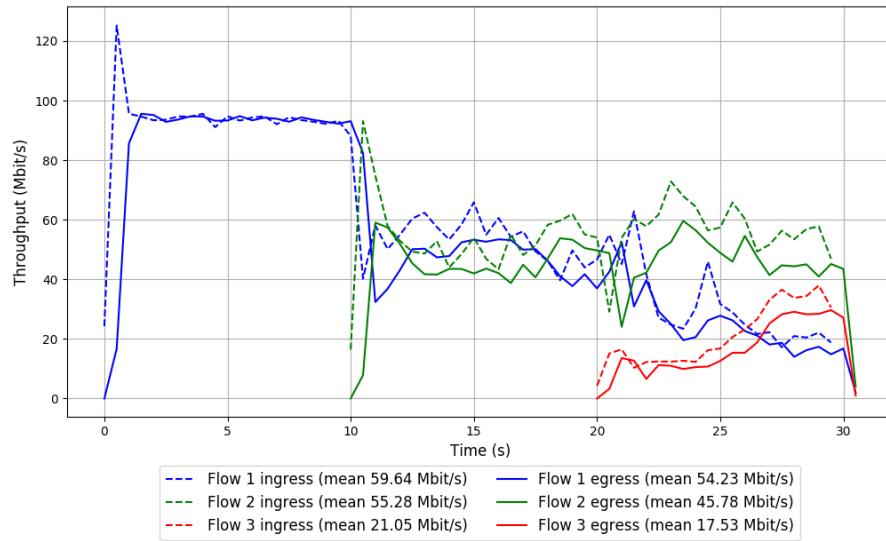


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-05 07:57:57
End at: 2019-02-05 07:58:27
Local clock offset: 2.491 ms
Remote clock offset: -8.105 ms

# Below is generated by plot.py at 2019-02-05 09:33:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 61.189 ms
Loss rate: 12.38%
-- Flow 1:
Average throughput: 54.23 Mbit/s
95th percentile per-packet one-way delay: 59.668 ms
Loss rate: 9.00%
-- Flow 2:
Average throughput: 45.78 Mbit/s
95th percentile per-packet one-way delay: 62.308 ms
Loss rate: 17.05%
-- Flow 3:
Average throughput: 17.53 Mbit/s
95th percentile per-packet one-way delay: 62.440 ms
Loss rate: 16.57%
```

## Run 2: Report of FillP-Sheep — Data Link

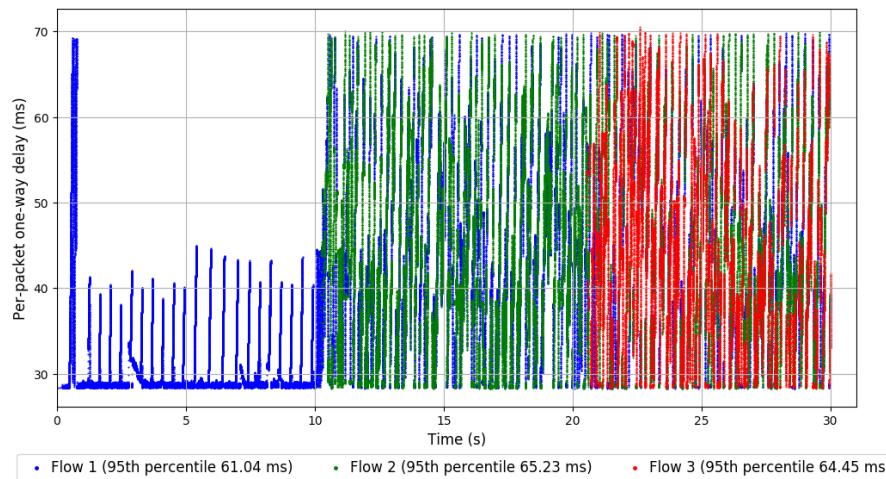
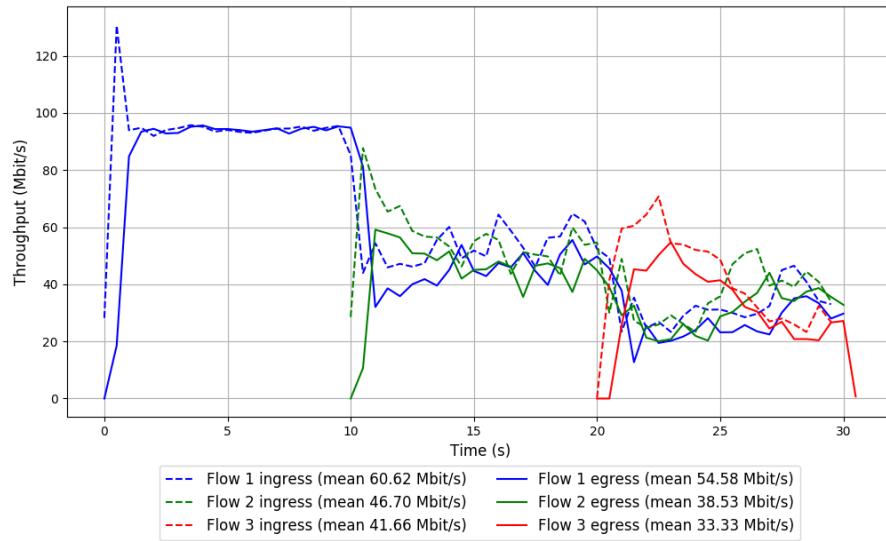


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-05 08:23:52
End at: 2019-02-05 08:24:22
Local clock offset: 0.361 ms
Remote clock offset: -4.931 ms

# Below is generated by plot.py at 2019-02-05 09:33:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 63.253 ms
Loss rate: 13.48%
-- Flow 1:
Average throughput: 54.58 Mbit/s
95th percentile per-packet one-way delay: 61.038 ms
Loss rate: 9.95%
-- Flow 2:
Average throughput: 38.53 Mbit/s
95th percentile per-packet one-way delay: 65.235 ms
Loss rate: 17.47%
-- Flow 3:
Average throughput: 33.33 Mbit/s
95th percentile per-packet one-way delay: 64.447 ms
Loss rate: 19.99%
```

### Run 3: Report of FillP-Sheep — Data Link

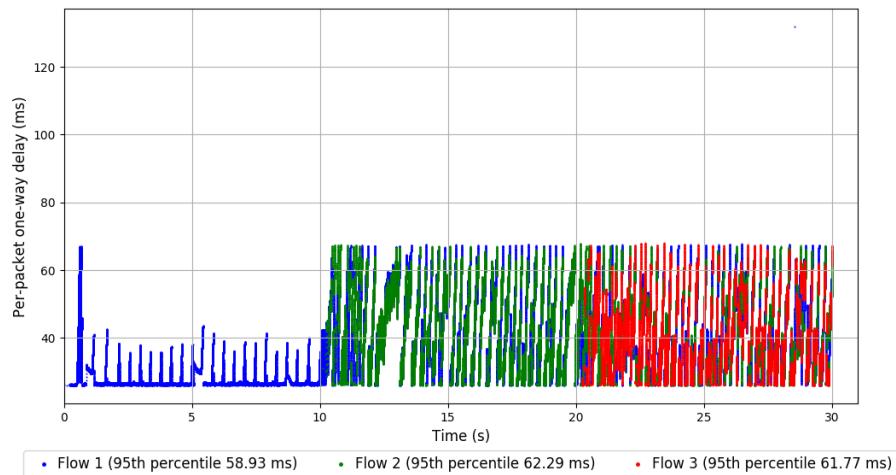
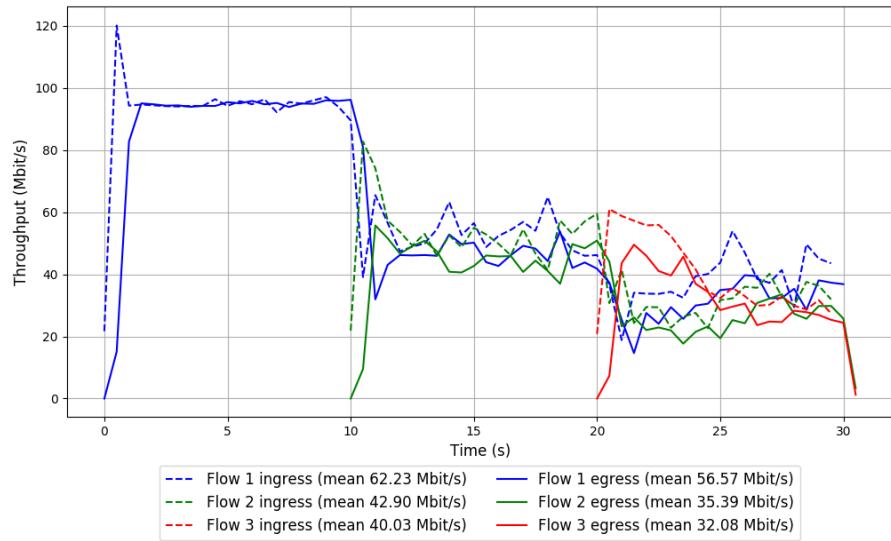


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-05 08:49:10
End at: 2019-02-05 08:49:40
Local clock offset: -0.436 ms
Remote clock offset: -6.466 ms

# Below is generated by plot.py at 2019-02-05 09:34:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 60.693 ms
Loss rate: 12.72%
-- Flow 1:
Average throughput: 56.57 Mbit/s
95th percentile per-packet one-way delay: 58.934 ms
Loss rate: 9.10%
-- Flow 2:
Average throughput: 35.39 Mbit/s
95th percentile per-packet one-way delay: 62.289 ms
Loss rate: 17.35%
-- Flow 3:
Average throughput: 32.08 Mbit/s
95th percentile per-packet one-way delay: 61.765 ms
Loss rate: 19.69%
```

## Run 4: Report of FillP-Sheep — Data Link

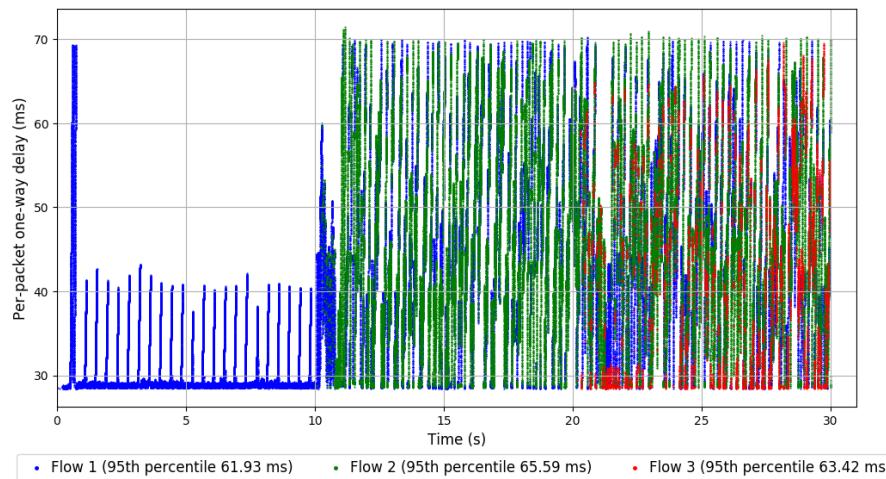
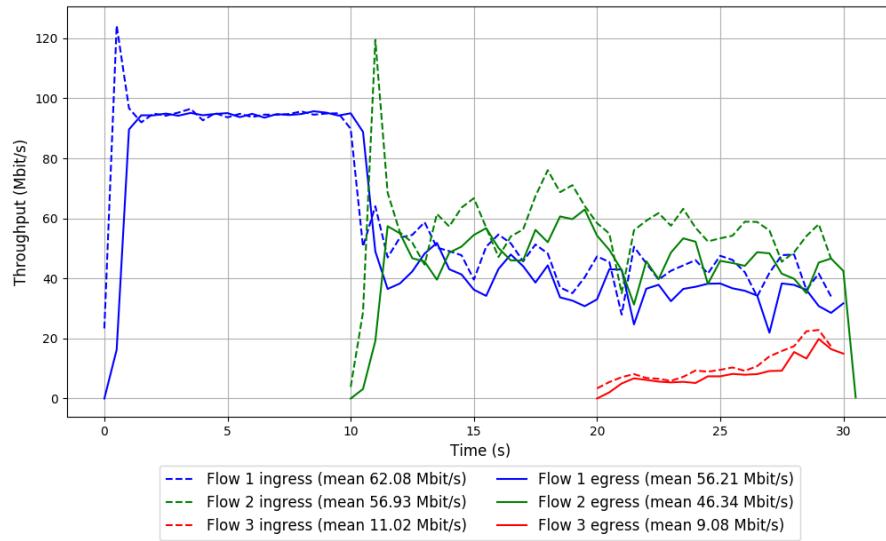


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-05 09:14:32
End at: 2019-02-05 09:15:02
Local clock offset: -0.917 ms
Remote clock offset: -3.977 ms

# Below is generated by plot.py at 2019-02-05 09:34:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 63.981 ms
Loss rate: 13.12%
-- Flow 1:
Average throughput: 56.21 Mbit/s
95th percentile per-packet one-way delay: 61.928 ms
Loss rate: 9.49%
-- Flow 2:
Average throughput: 46.34 Mbit/s
95th percentile per-packet one-way delay: 65.588 ms
Loss rate: 18.61%
-- Flow 3:
Average throughput: 9.08 Mbit/s
95th percentile per-packet one-way delay: 63.417 ms
Loss rate: 18.03%
```

Run 5: Report of FillP-Sheep — Data Link

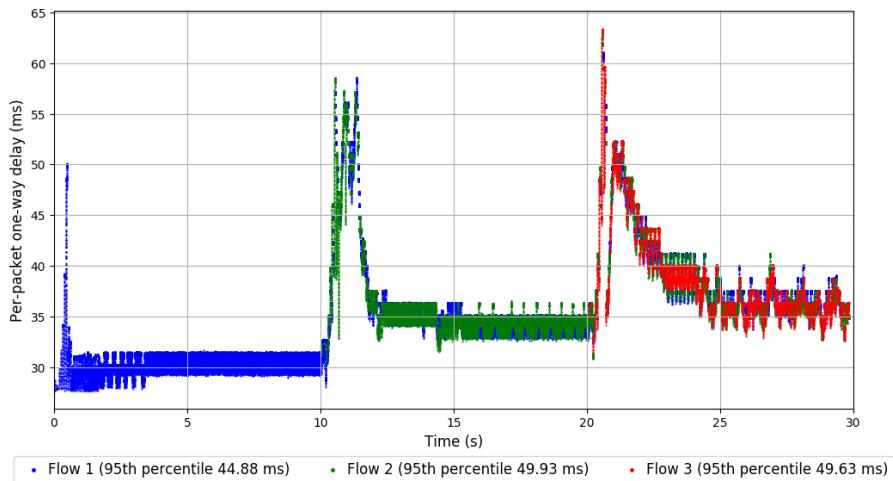
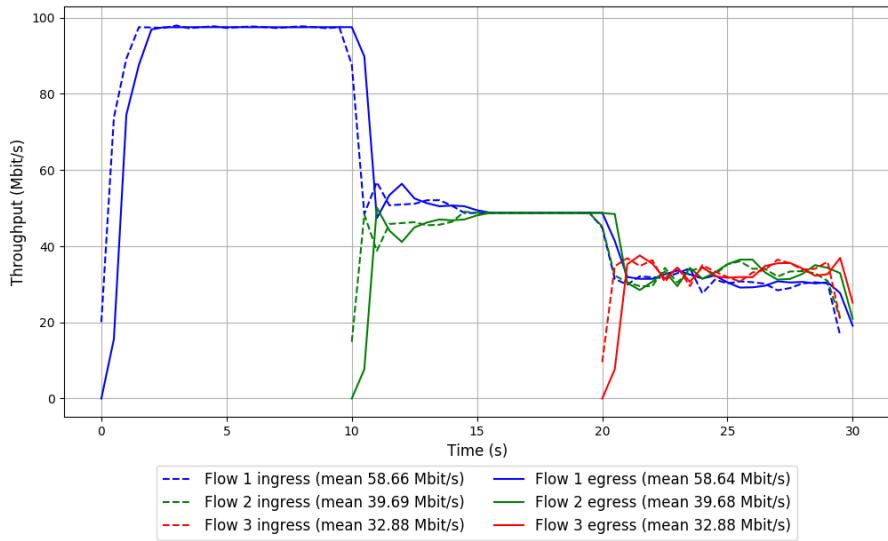


Run 1: Statistics of Indigo

```
Start at: 2019-02-05 07:33:39
End at: 2019-02-05 07:34:09
Local clock offset: 6.673 ms
Remote clock offset: -7.189 ms

# Below is generated by plot.py at 2019-02-05 09:34:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 48.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.64 Mbit/s
95th percentile per-packet one-way delay: 44.884 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 49.926 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 49.632 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

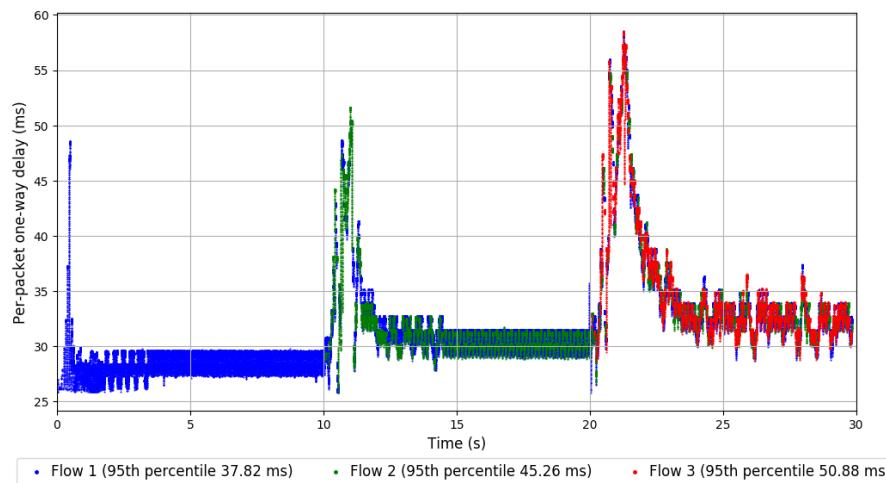
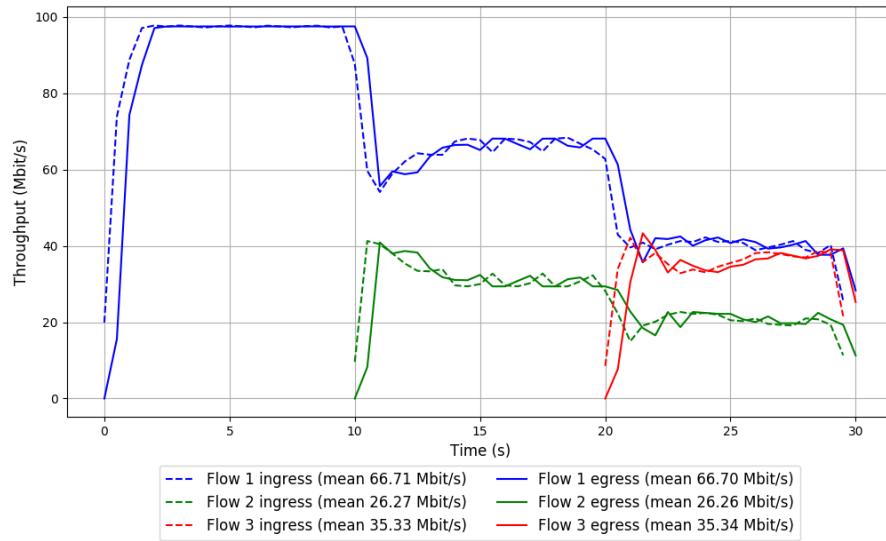


Run 2: Statistics of Indigo

```
Start at: 2019-02-05 07:59:12
End at: 2019-02-05 07:59:42
Local clock offset: 2.249 ms
Remote clock offset: -8.144 ms

# Below is generated by plot.py at 2019-02-05 09:34:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 42.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.70 Mbit/s
95th percentile per-packet one-way delay: 37.823 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.26 Mbit/s
95th percentile per-packet one-way delay: 45.261 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 35.34 Mbit/s
95th percentile per-packet one-way delay: 50.879 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

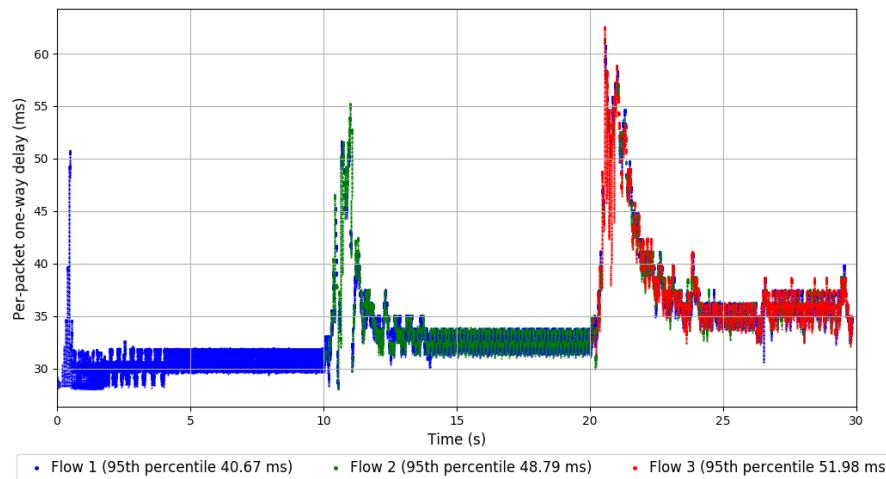
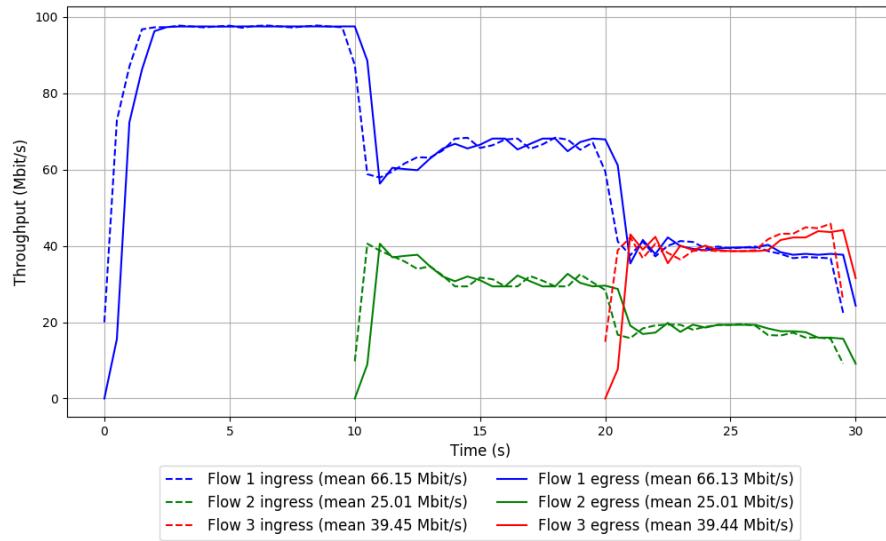


Run 3: Statistics of Indigo

```
Start at: 2019-02-05 08:25:06
End at: 2019-02-05 08:25:36
Local clock offset: 0.322 ms
Remote clock offset: -5.294 ms

# Below is generated by plot.py at 2019-02-05 09:34:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 45.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.13 Mbit/s
95th percentile per-packet one-way delay: 40.672 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 48.787 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.44 Mbit/s
95th percentile per-packet one-way delay: 51.981 ms
Loss rate: 0.00%
```

### Run 3: Report of Indigo — Data Link

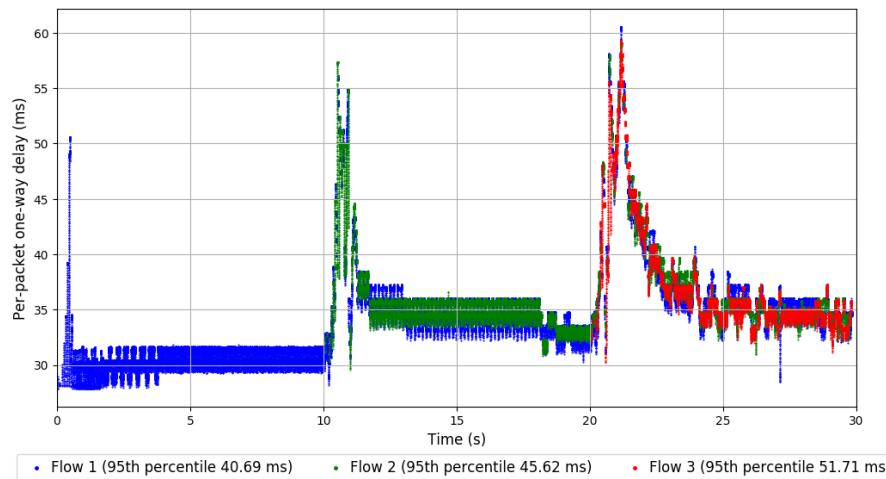
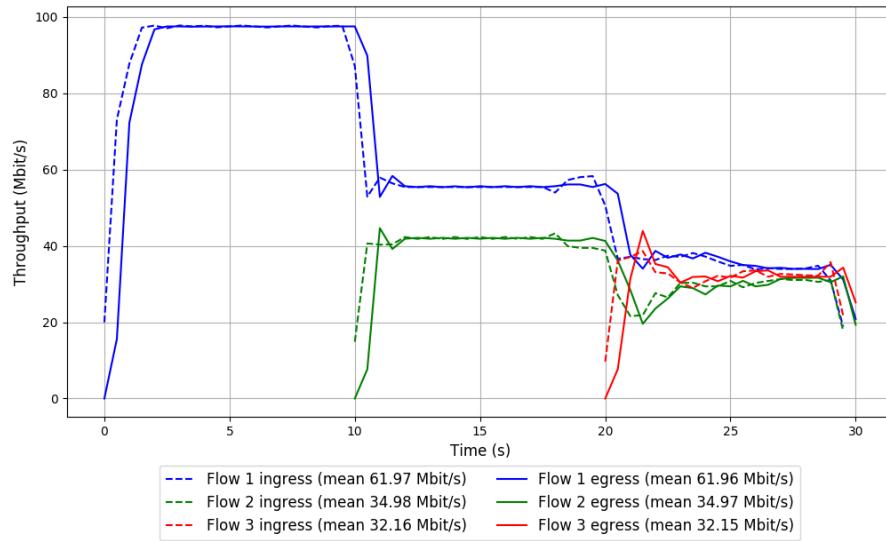


Run 4: Statistics of Indigo

```
Start at: 2019-02-05 08:50:23
End at: 2019-02-05 08:50:53
Local clock offset: -0.41 ms
Remote clock offset: -4.749 ms

# Below is generated by plot.py at 2019-02-05 09:34:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 44.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.96 Mbit/s
95th percentile per-packet one-way delay: 40.689 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.97 Mbit/s
95th percentile per-packet one-way delay: 45.616 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 51.712 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

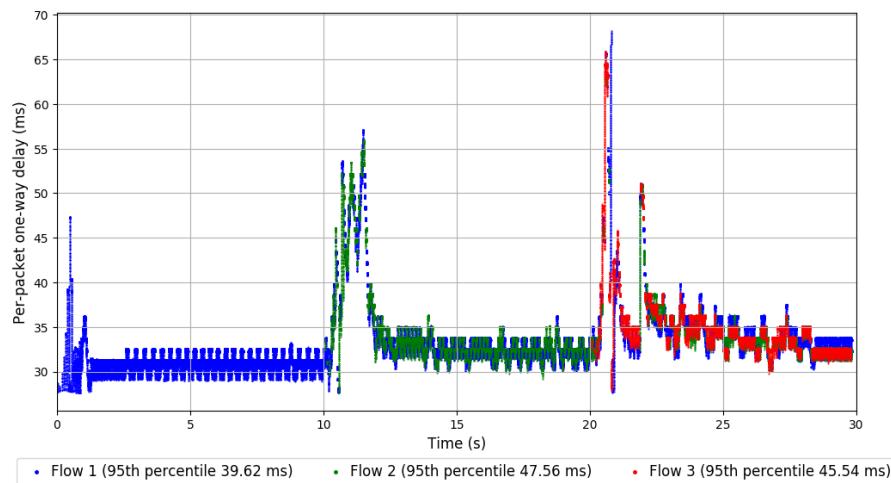
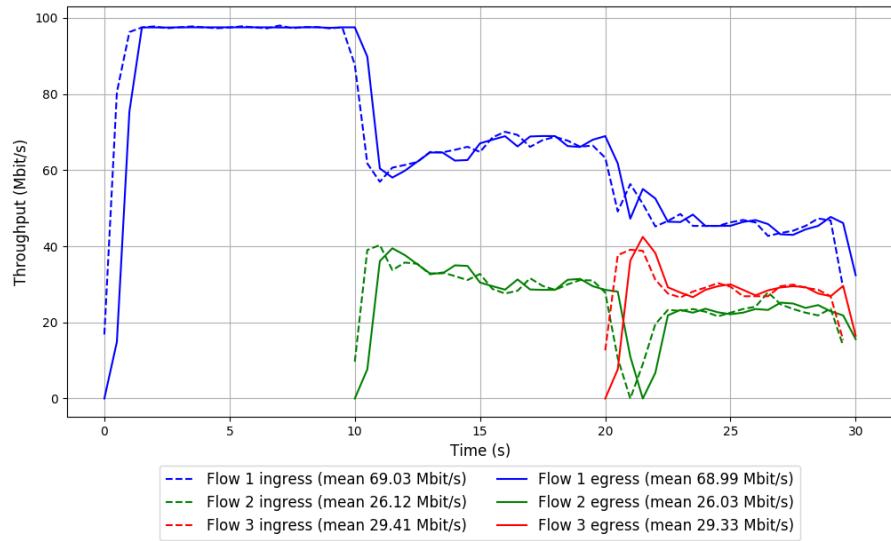


Run 5: Statistics of Indigo

```
Start at: 2019-02-05 09:15:45
End at: 2019-02-05 09:16:15
Local clock offset: -0.959 ms
Remote clock offset: -4.976 ms

# Below is generated by plot.py at 2019-02-05 09:34:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 42.255 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 68.99 Mbit/s
95th percentile per-packet one-way delay: 39.620 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 26.03 Mbit/s
95th percentile per-packet one-way delay: 47.564 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 45.540 ms
Loss rate: 0.27%
```

Run 5: Report of Indigo — Data Link

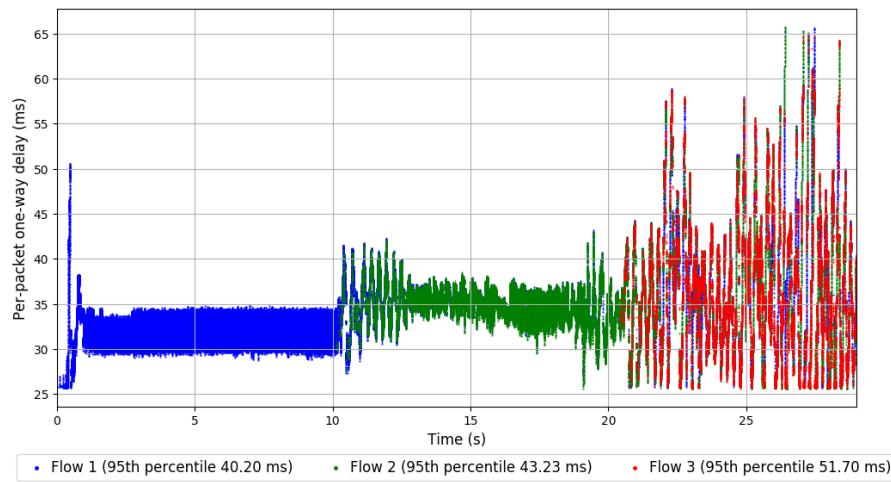
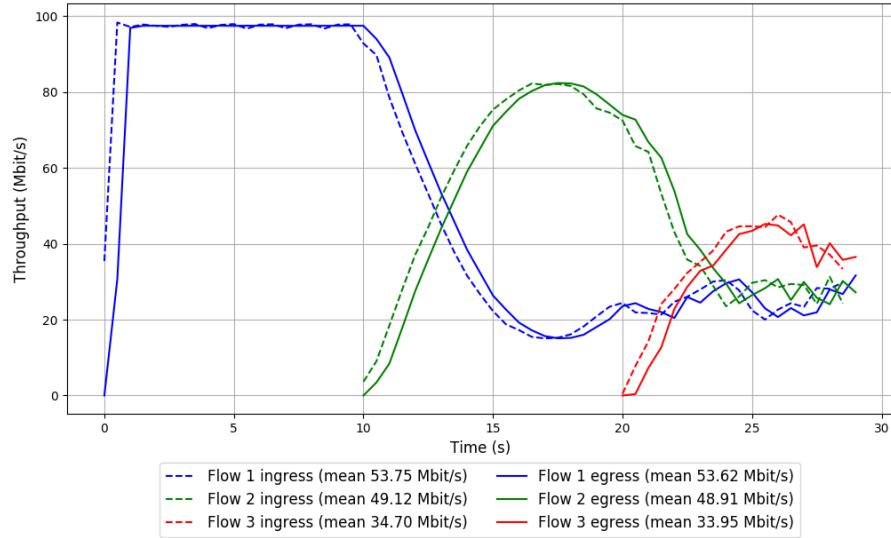


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-02-05 07:39:37
End at: 2019-02-05 07:40:07
Local clock offset: 6.647 ms
Remote clock offset: -9.019 ms

# Below is generated by plot.py at 2019-02-05 09:34:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 43.313 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 53.62 Mbit/s
95th percentile per-packet one-way delay: 40.197 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 48.91 Mbit/s
95th percentile per-packet one-way delay: 43.232 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 33.95 Mbit/s
95th percentile per-packet one-way delay: 51.703 ms
Loss rate: 2.10%
```

## Run 1: Report of Indigo-MusesC3 — Data Link

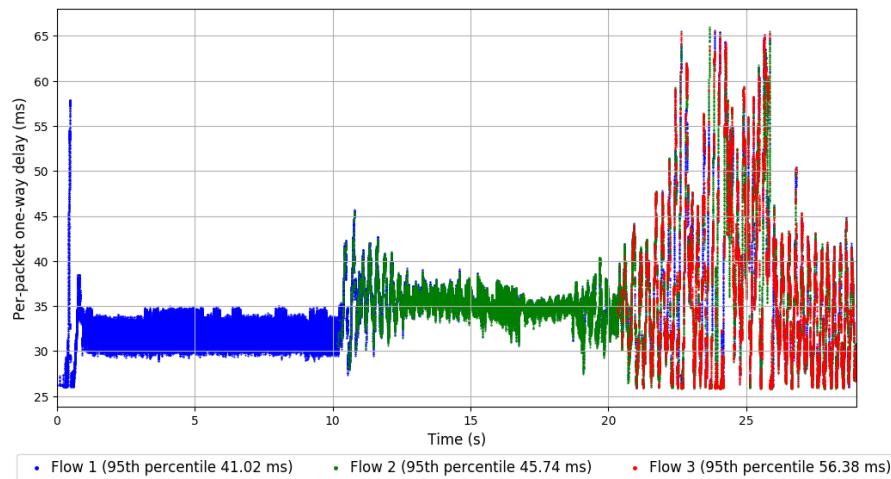
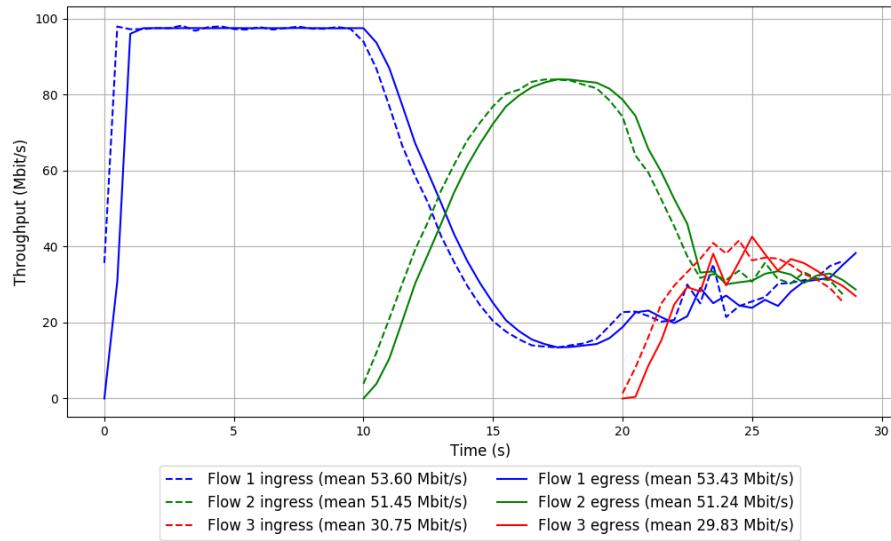


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 08:05:23
End at: 2019-02-05 08:05:53
Local clock offset: 1.427 ms
Remote clock offset: -7.841 ms

# Below is generated by plot.py at 2019-02-05 09:34:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 45.768 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 53.43 Mbit/s
95th percentile per-packet one-way delay: 41.019 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 51.24 Mbit/s
95th percentile per-packet one-way delay: 45.739 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 56.375 ms
Loss rate: 3.06%
```

## Run 2: Report of Indigo-MusesC3 — Data Link

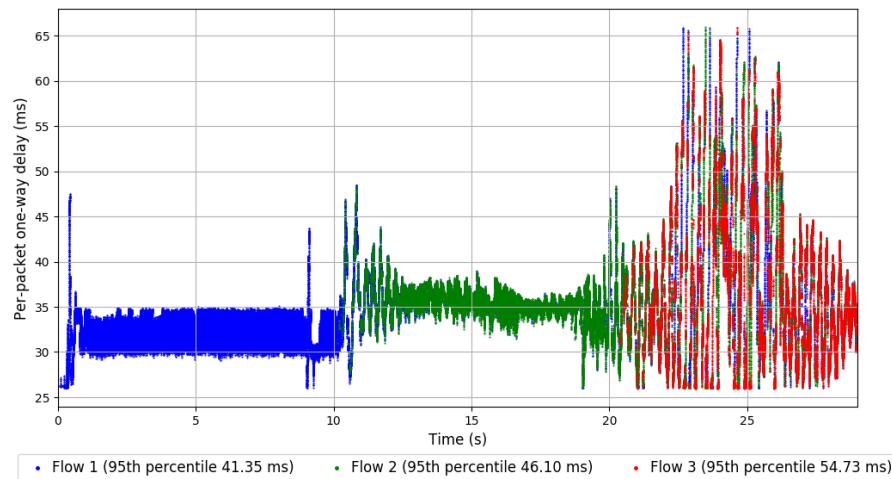
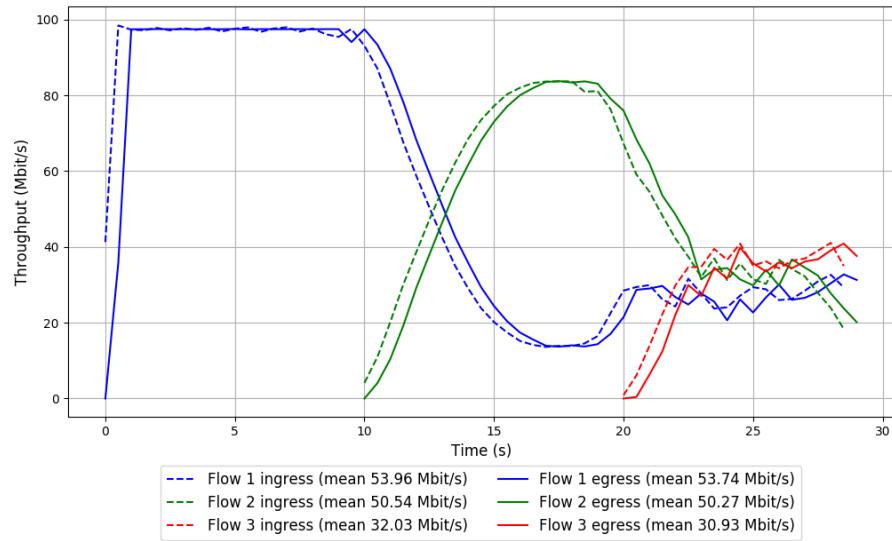


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 08:31:02
End at: 2019-02-05 08:31:32
Local clock offset: 0.118 ms
Remote clock offset: -7.232 ms

# Below is generated by plot.py at 2019-02-05 09:35:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 45.674 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 53.74 Mbit/s
95th percentile per-packet one-way delay: 41.354 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 46.105 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 30.93 Mbit/s
95th percentile per-packet one-way delay: 54.731 ms
Loss rate: 3.45%
```

### Run 3: Report of Indigo-MusesC3 — Data Link

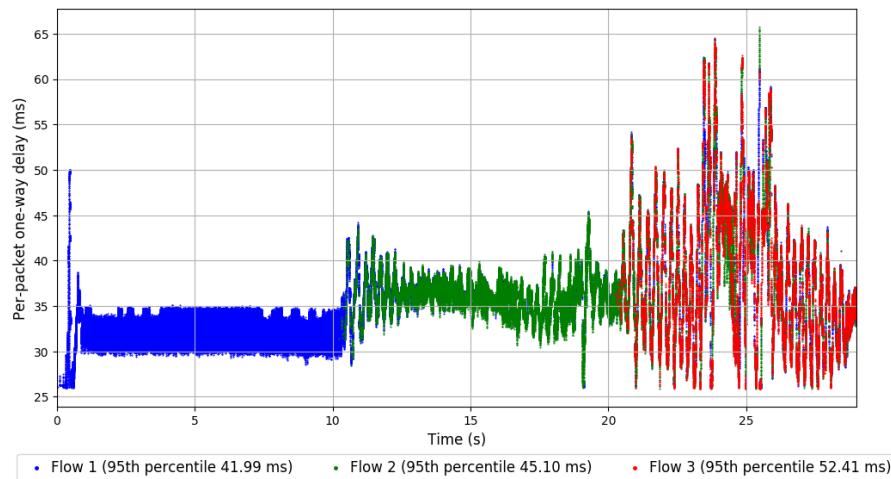
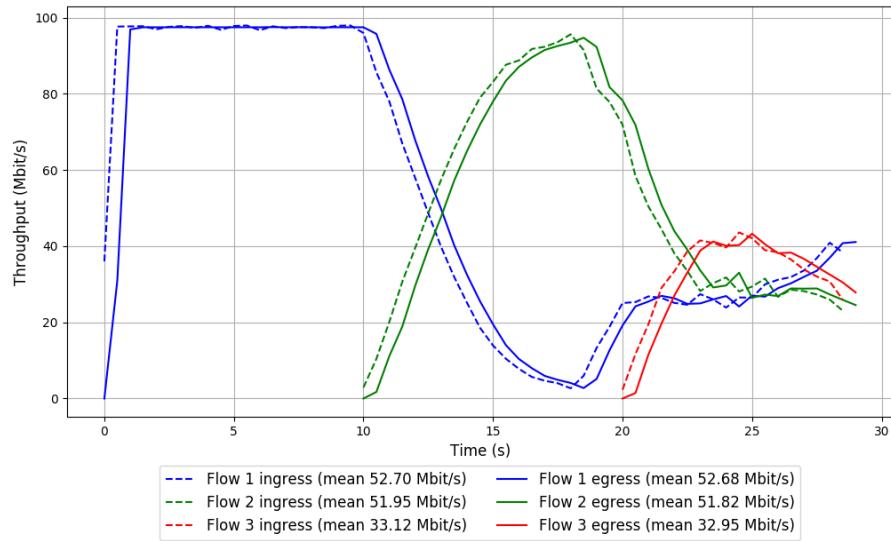


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 08:56:20
End at: 2019-02-05 08:56:50
Local clock offset: -0.416 ms
Remote clock offset: -6.675 ms

# Below is generated by plot.py at 2019-02-05 09:35:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 45.440 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 52.68 Mbit/s
95th percentile per-packet one-way delay: 41.992 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 45.096 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 52.409 ms
Loss rate: 0.54%
```

## Run 4: Report of Indigo-MusesC3 — Data Link

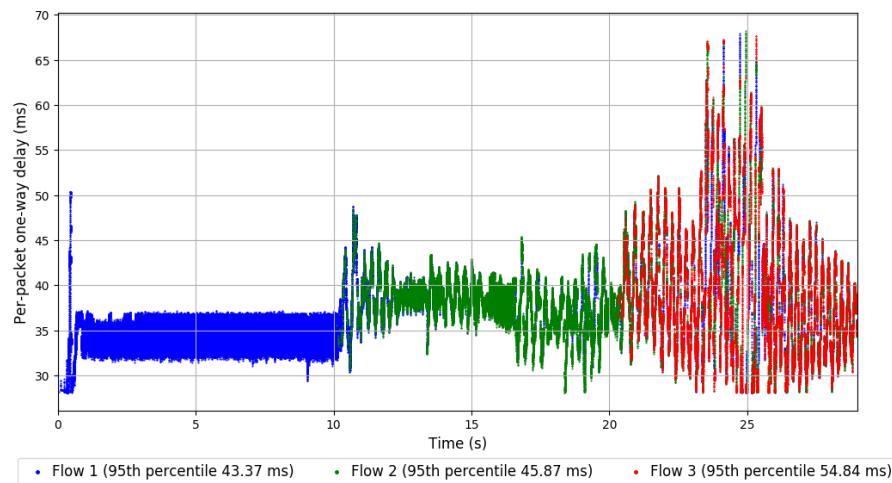
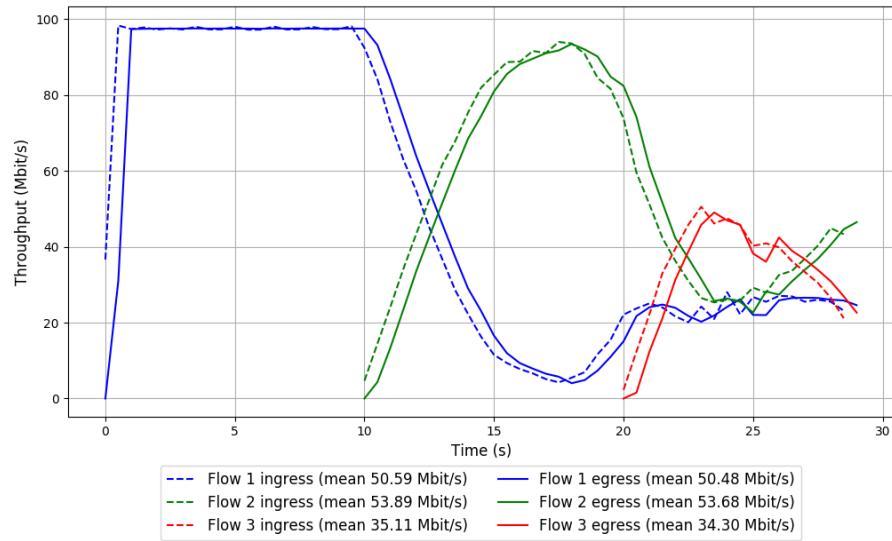


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 09:21:41
End at: 2019-02-05 09:22:11
Local clock offset: -0.775 ms
Remote clock offset: -4.474 ms

# Below is generated by plot.py at 2019-02-05 09:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 46.373 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 50.48 Mbit/s
95th percentile per-packet one-way delay: 43.365 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 53.68 Mbit/s
95th percentile per-packet one-way delay: 45.871 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 54.844 ms
Loss rate: 2.34%
```

## Run 5: Report of Indigo-MusesC3 — Data Link

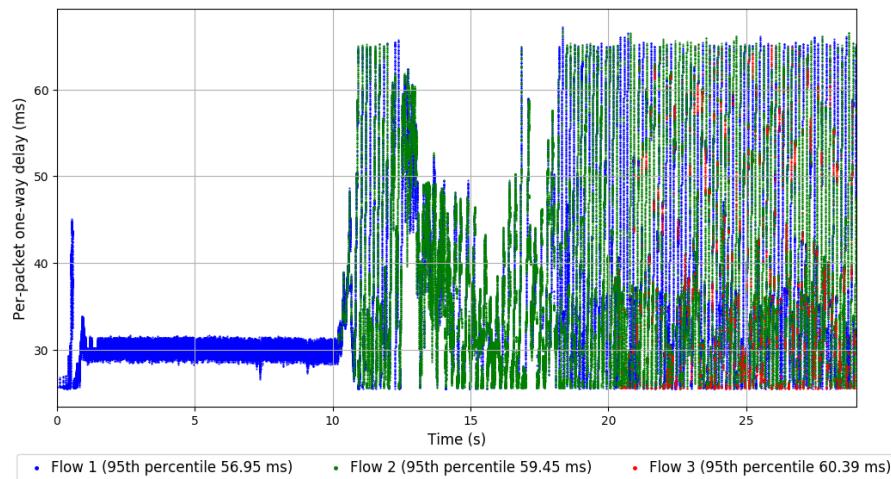
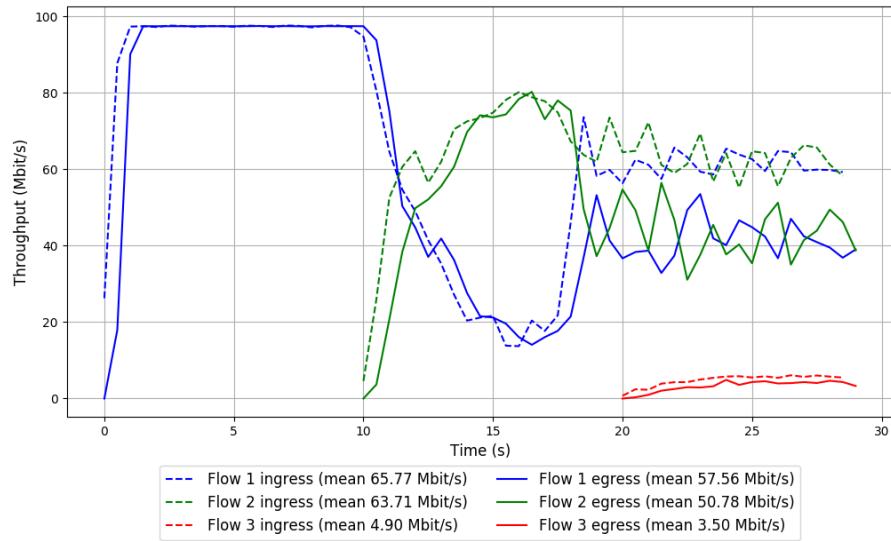


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-02-05 07:44:37
End at: 2019-02-05 07:45:07
Local clock offset: 6.688 ms
Remote clock offset: -8.911 ms

# Below is generated by plot.py at 2019-02-05 09:35:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 58.110 ms
Loss rate: 15.65%
-- Flow 1:
Average throughput: 57.56 Mbit/s
95th percentile per-packet one-way delay: 56.948 ms
Loss rate: 12.44%
-- Flow 2:
Average throughput: 50.78 Mbit/s
95th percentile per-packet one-way delay: 59.452 ms
Loss rate: 20.25%
-- Flow 3:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 60.392 ms
Loss rate: 29.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

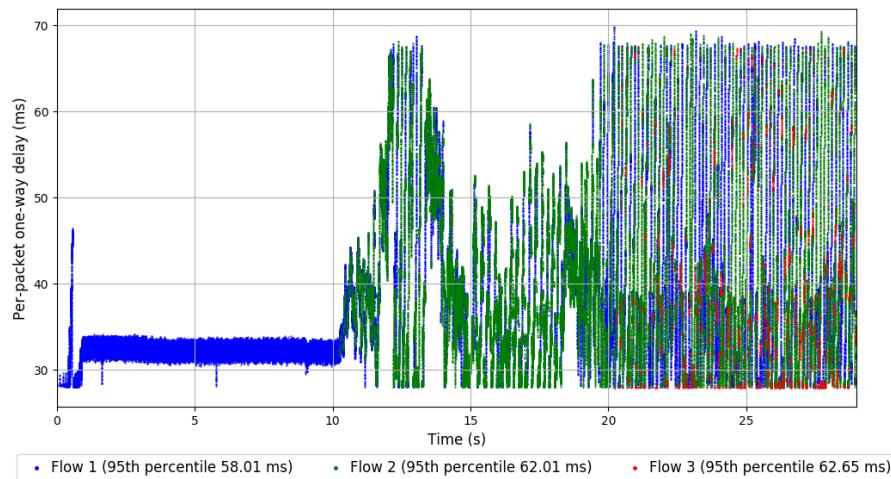
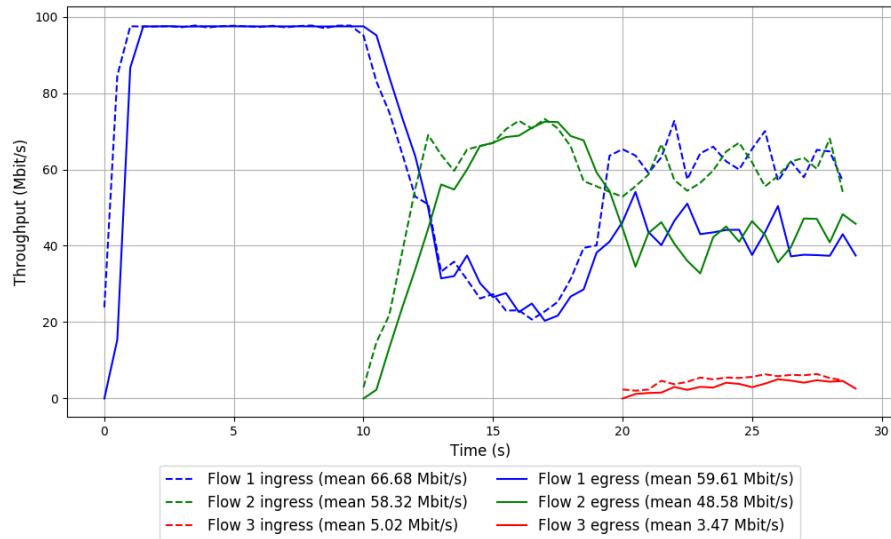


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 08:10:15
End at: 2019-02-05 08:10:45
Local clock offset: 0.964 ms
Remote clock offset: -5.648 ms

# Below is generated by plot.py at 2019-02-05 09:35:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 59.942 ms
Loss rate: 13.06%
-- Flow 1:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 58.013 ms
Loss rate: 10.59%
-- Flow 2:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: 62.010 ms
Loss rate: 16.69%
-- Flow 3:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 62.648 ms
Loss rate: 30.90%
```

## Run 2: Report of Indigo-MusesC5 — Data Link

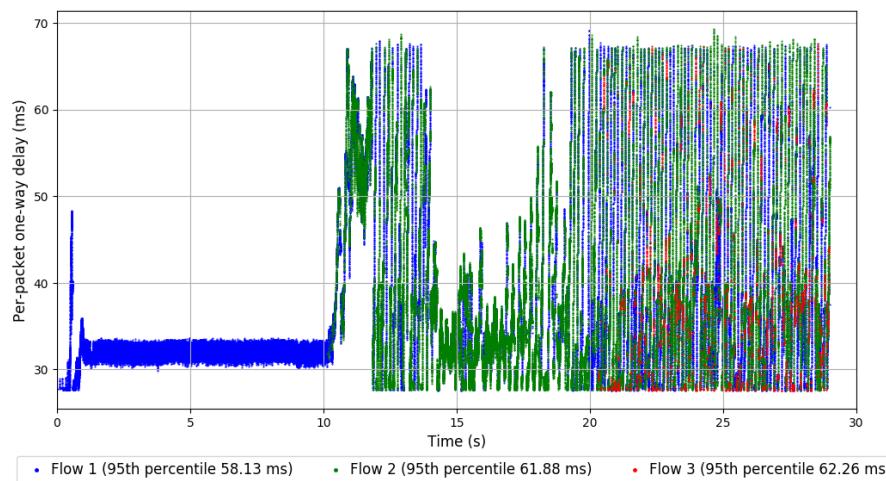
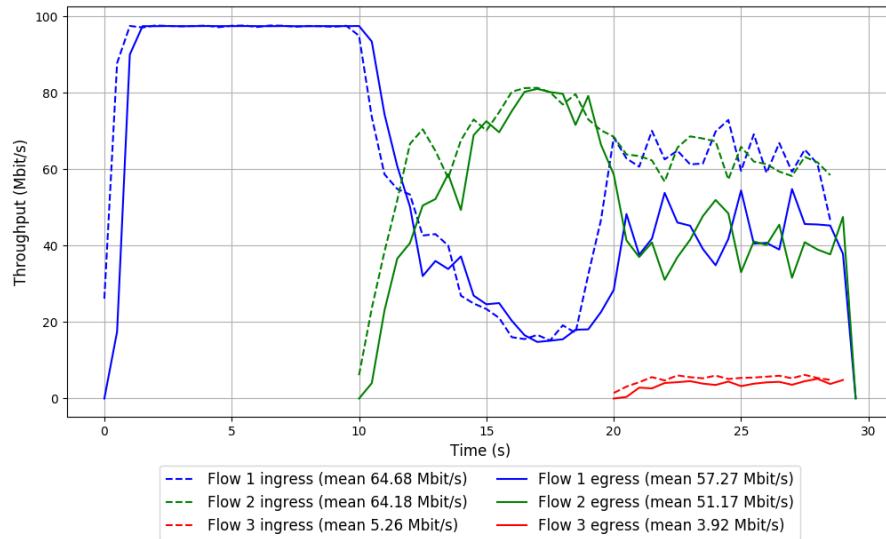


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 08:35:52
End at: 2019-02-05 08:36:22
Local clock offset: -0.057 ms
Remote clock offset: -5.429 ms

# Below is generated by plot.py at 2019-02-05 09:35:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 59.968 ms
Loss rate: 15.01%
-- Flow 1:
Average throughput: 57.27 Mbit/s
95th percentile per-packet one-way delay: 58.131 ms
Loss rate: 11.43%
-- Flow 2:
Average throughput: 51.17 Mbit/s
95th percentile per-packet one-way delay: 61.878 ms
Loss rate: 20.17%
-- Flow 3:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 62.257 ms
Loss rate: 25.31%
```

### Run 3: Report of Indigo-MusesC5 — Data Link

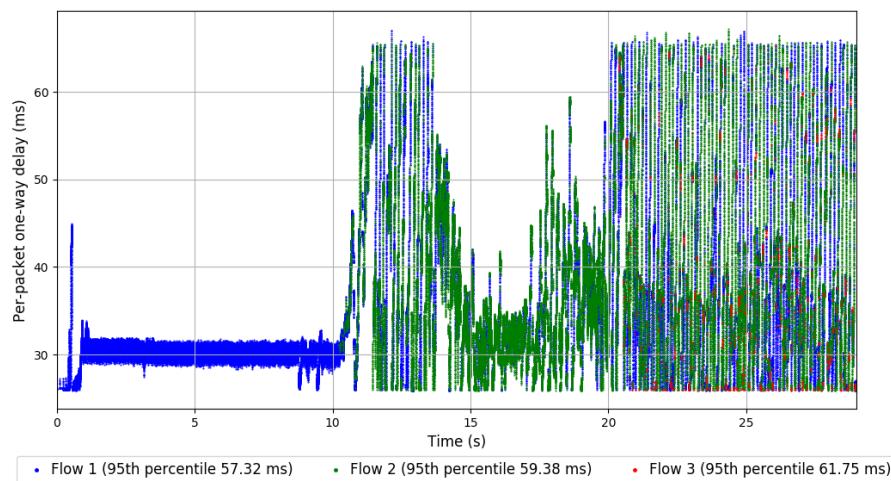
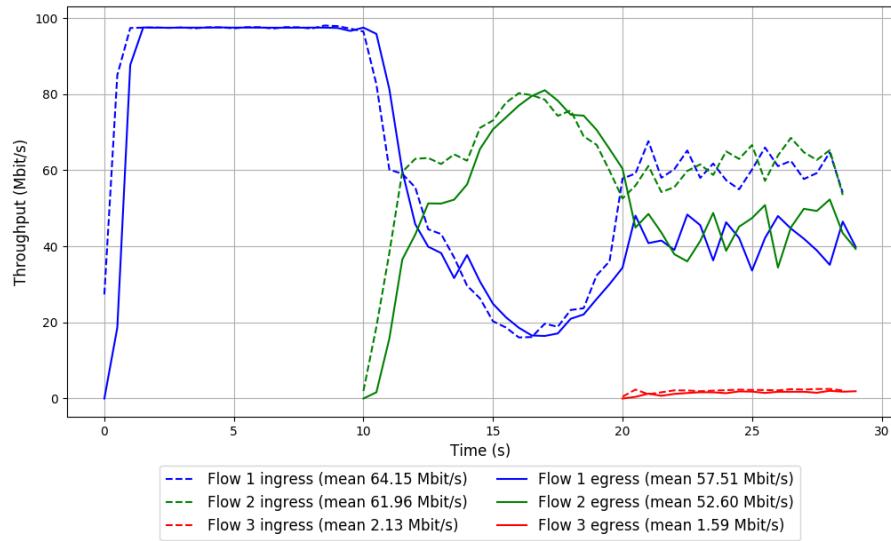


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 09:01:10
End at: 2019-02-05 09:01:40
Local clock offset: -0.492 ms
Remote clock offset: -6.815 ms

# Below is generated by plot.py at 2019-02-05 09:35:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.07 Mbit/s
95th percentile per-packet one-way delay: 58.224 ms
Loss rate: 12.27%
-- Flow 1:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 57.318 ms
Loss rate: 10.34%
-- Flow 2:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 59.377 ms
Loss rate: 15.12%
-- Flow 3:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 61.752 ms
Loss rate: 25.55%
```

## Run 4: Report of Indigo-MusesC5 — Data Link

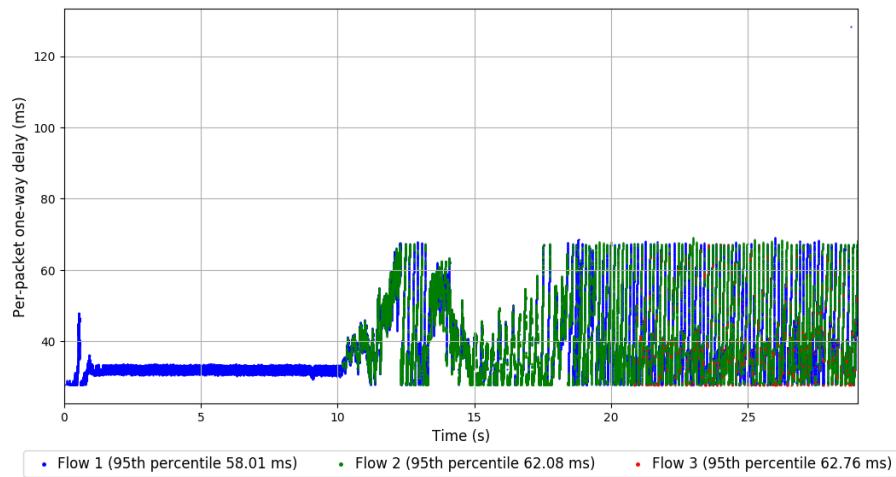
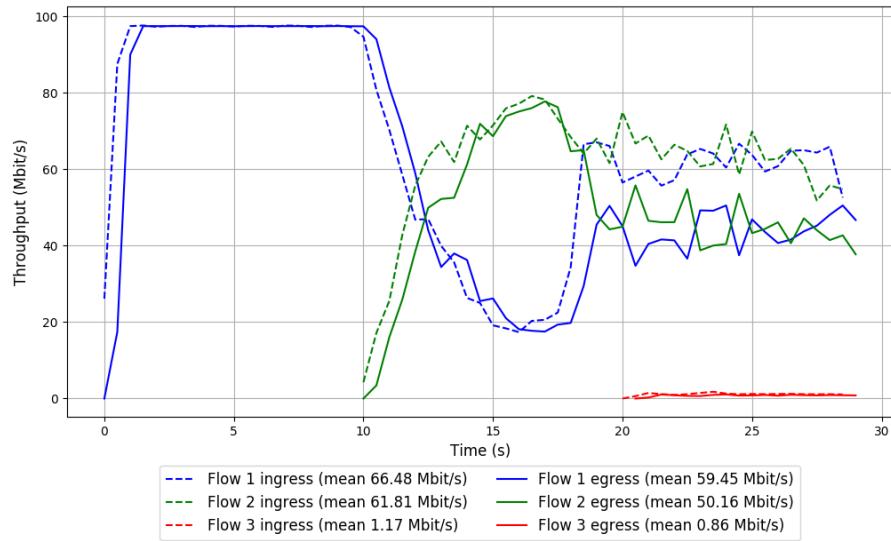


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 09:26:31
End at: 2019-02-05 09:27:01
Local clock offset: -0.757 ms
Remote clock offset: -4.994 ms

# Below is generated by plot.py at 2019-02-05 09:36:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 60.147 ms
Loss rate: 13.71%
-- Flow 1:
Average throughput: 59.45 Mbit/s
95th percentile per-packet one-way delay: 58.009 ms
Loss rate: 10.53%
-- Flow 2:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 62.080 ms
Loss rate: 18.80%
-- Flow 3:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 62.756 ms
Loss rate: 30.58%
```

## Run 5: Report of Indigo-MusesC5 — Data Link

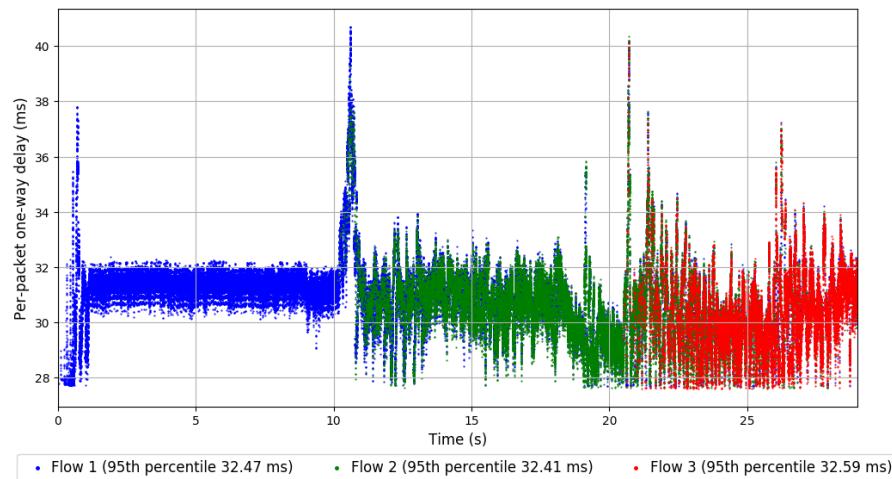
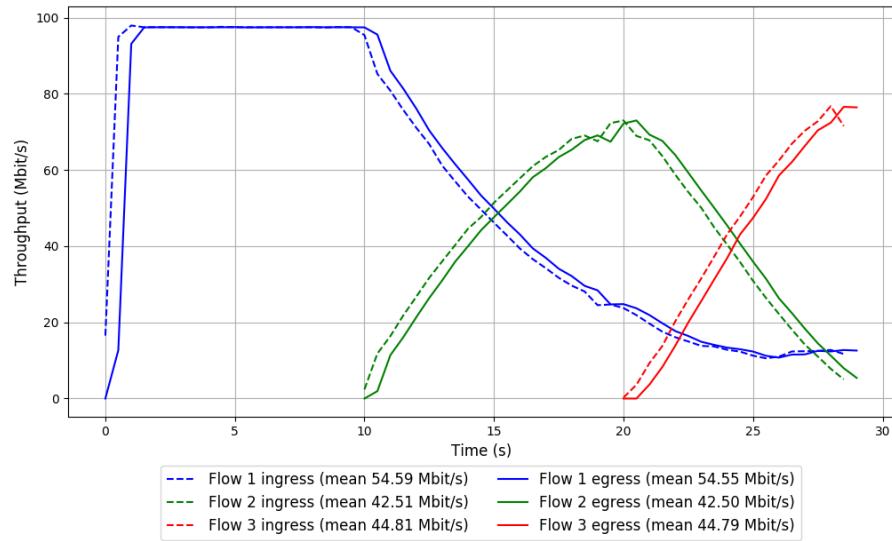


```
Run 1: Statistics of Indigo-MusesD
```

```
Start at: 2019-02-05 07:42:04
End at: 2019-02-05 07:42:34
Local clock offset: 6.665 ms
Remote clock offset: -6.913 ms

# Below is generated by plot.py at 2019-02-05 09:36:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 32.480 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 54.55 Mbit/s
95th percentile per-packet one-way delay: 32.471 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 42.50 Mbit/s
95th percentile per-packet one-way delay: 32.414 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 44.79 Mbit/s
95th percentile per-packet one-way delay: 32.591 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo-MusesD — Data Link

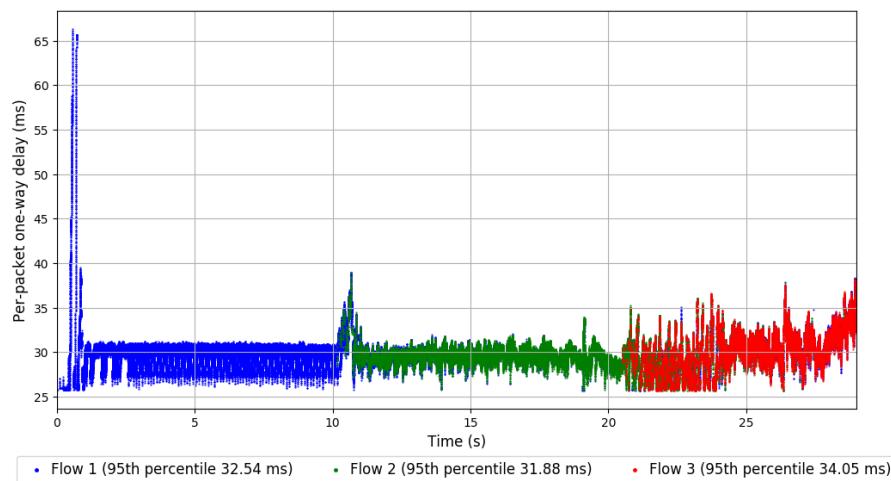
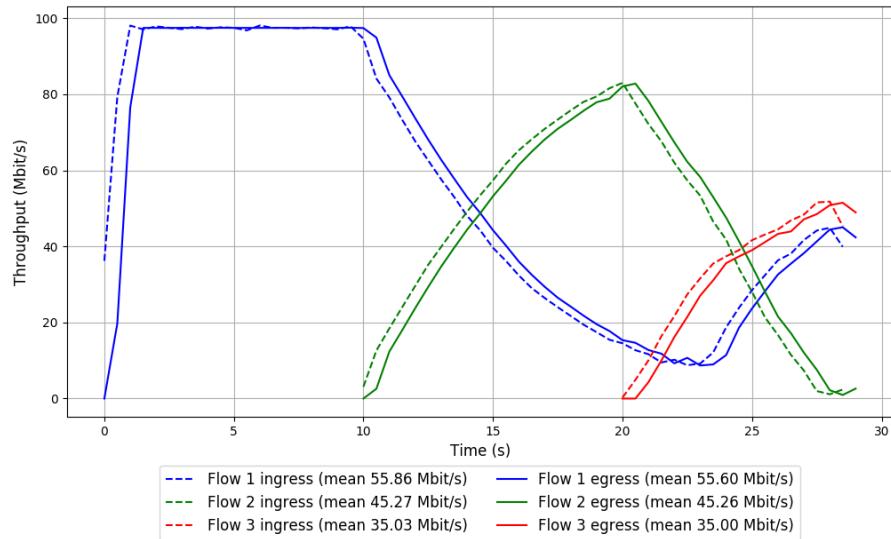


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 08:07:52
End at: 2019-02-05 08:08:22
Local clock offset: 1.159 ms
Remote clock offset: -7.94 ms

# Below is generated by plot.py at 2019-02-05 09:36:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 32.740 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 32.541 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 45.26 Mbit/s
95th percentile per-packet one-way delay: 31.884 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 34.048 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo-MusesD — Data Link

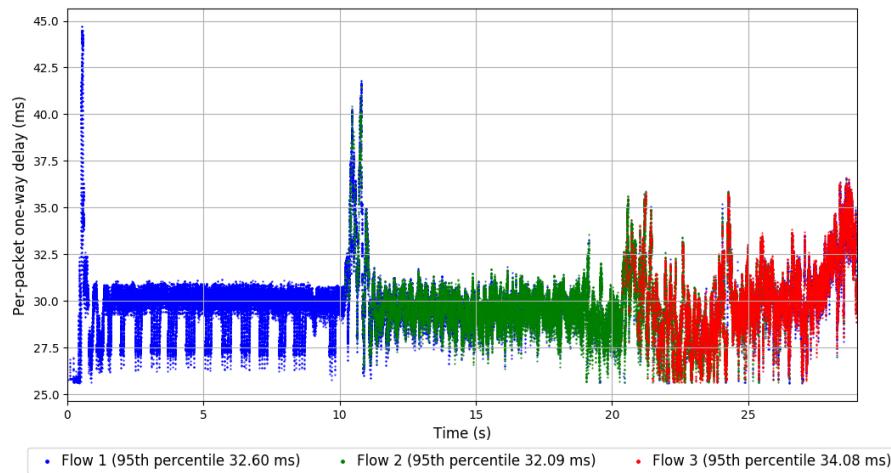
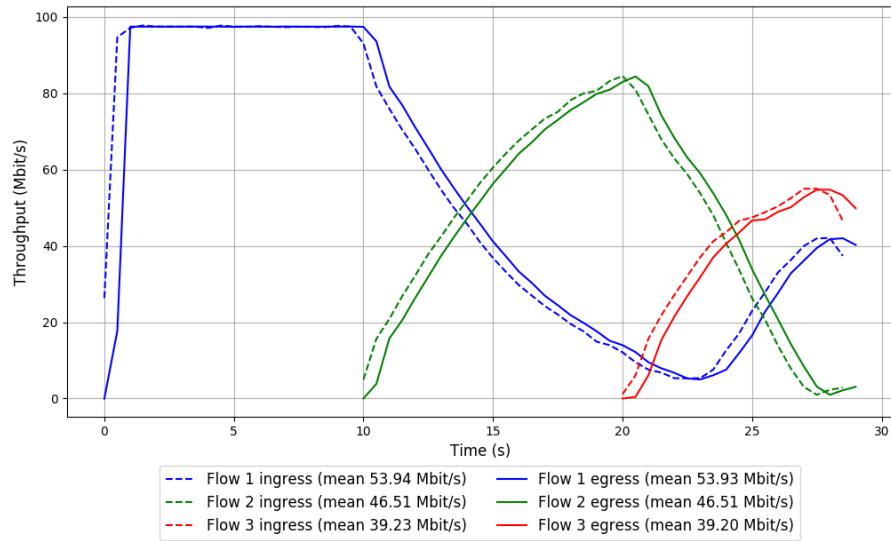


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 08:33:29
End at: 2019-02-05 08:33:59
Local clock offset: 0.018 ms
Remote clock offset: -7.573 ms

# Below is generated by plot.py at 2019-02-05 09:36:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 32.836 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.93 Mbit/s
95th percentile per-packet one-way delay: 32.600 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.51 Mbit/s
95th percentile per-packet one-way delay: 32.094 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 34.076 ms
Loss rate: 0.05%
```

### Run 3: Report of Indigo-MusesD — Data Link

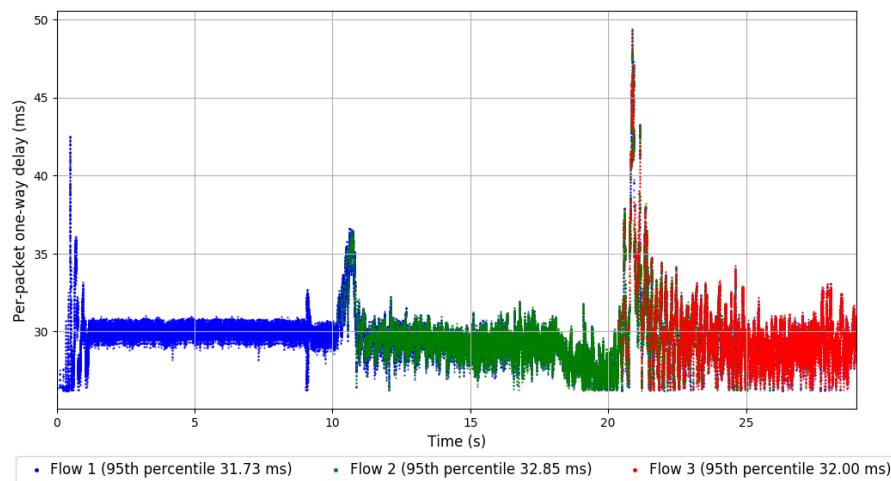
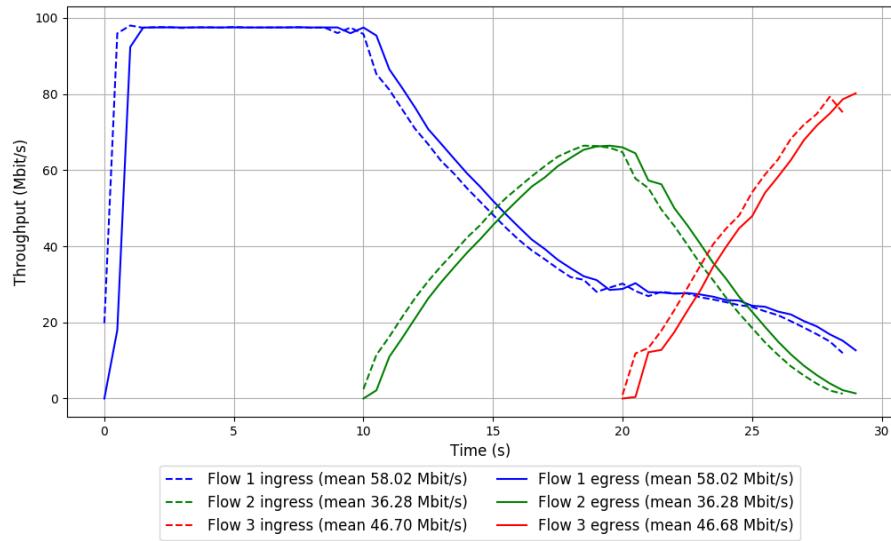


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 08:58:47
End at: 2019-02-05 08:59:17
Local clock offset: -0.439 ms
Remote clock offset: -6.402 ms

# Below is generated by plot.py at 2019-02-05 09:36:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 32.074 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.02 Mbit/s
95th percentile per-packet one-way delay: 31.731 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.28 Mbit/s
95th percentile per-packet one-way delay: 32.849 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.68 Mbit/s
95th percentile per-packet one-way delay: 31.998 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo-MusesD — Data Link

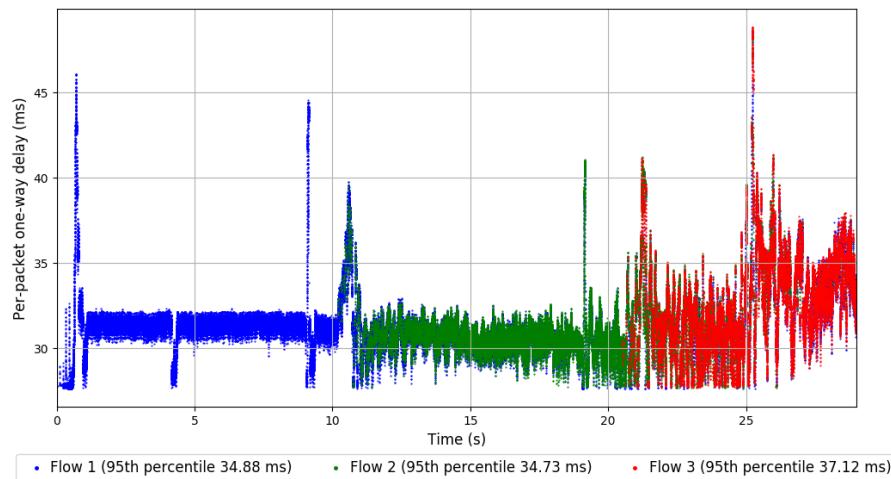
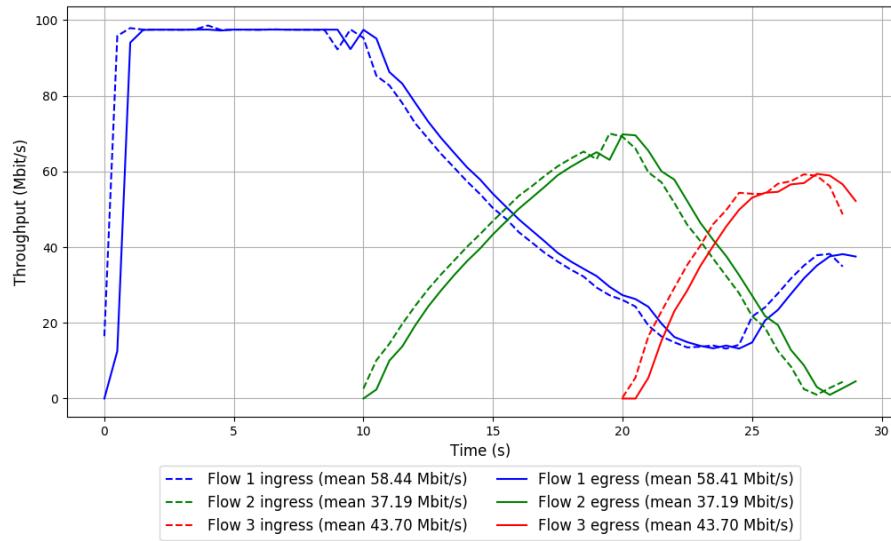


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 09:24:08
End at: 2019-02-05 09:24:38
Local clock offset: -0.76 ms
Remote clock offset: -4.975 ms

# Below is generated by plot.py at 2019-02-05 09:36:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 35.567 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 34.877 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 37.19 Mbit/s
95th percentile per-packet one-way delay: 34.725 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.70 Mbit/s
95th percentile per-packet one-way delay: 37.120 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo-MusesD — Data Link

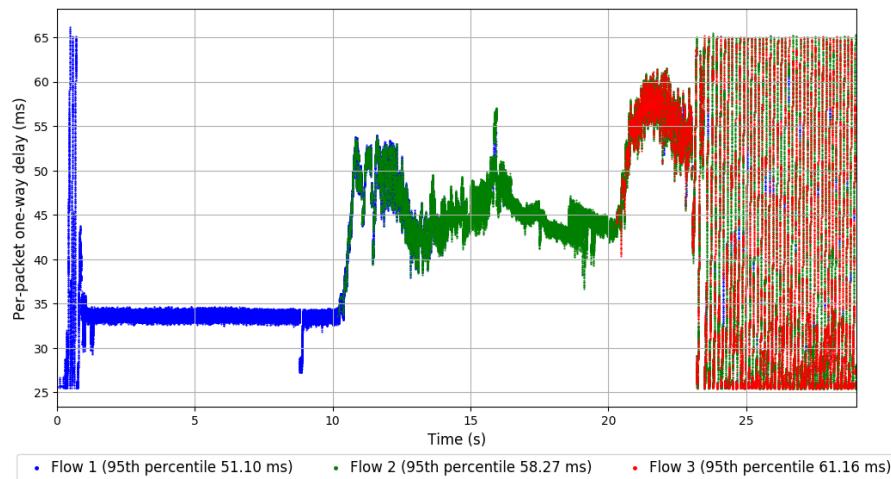
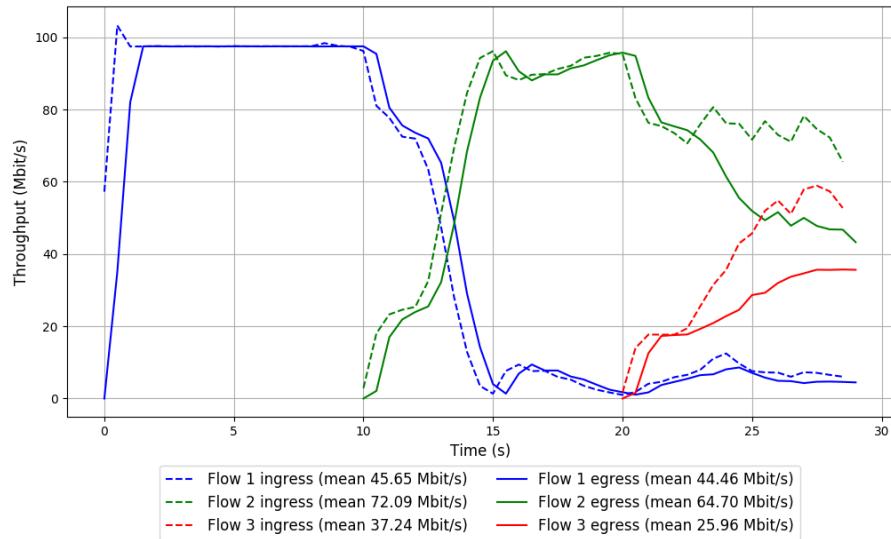


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 07:22:50
End at: 2019-02-05 07:23:20
Local clock offset: 7.203 ms
Remote clock offset: -9.54 ms

# Below is generated by plot.py at 2019-02-05 09:36:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 57.276 ms
Loss rate: 9.10%
-- Flow 1:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 51.099 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 64.70 Mbit/s
95th percentile per-packet one-way delay: 58.265 ms
Loss rate: 10.29%
-- Flow 3:
Average throughput: 25.96 Mbit/s
95th percentile per-packet one-way delay: 61.163 ms
Loss rate: 30.43%
```

## Run 1: Report of Indigo-MusesT — Data Link

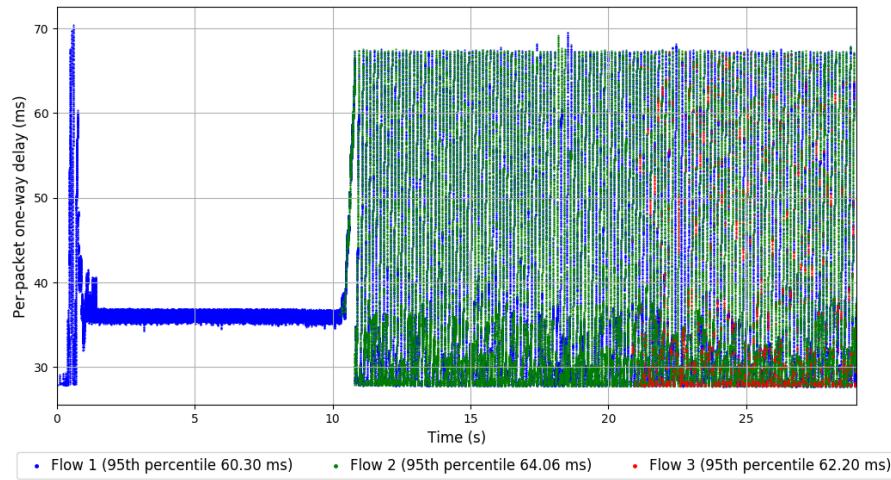
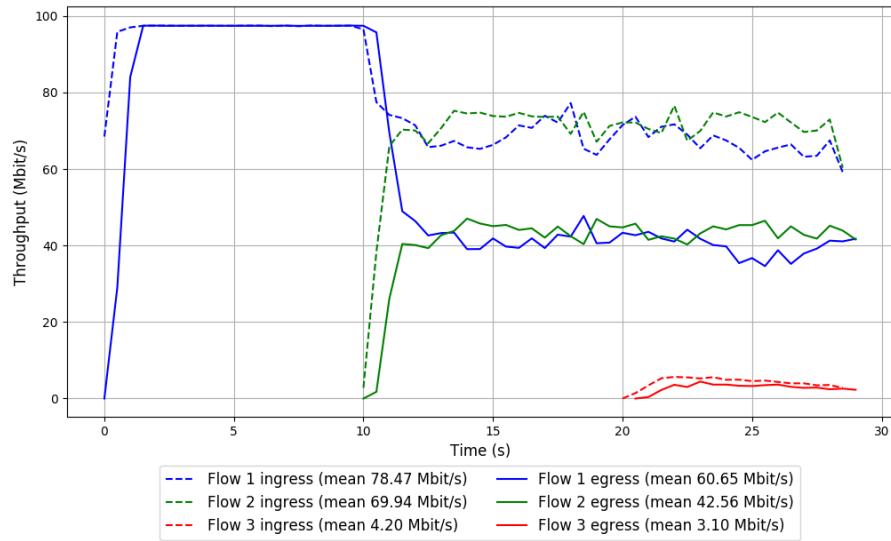


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 07:48:20
End at: 2019-02-05 07:48:50
Local clock offset: 5.464 ms
Remote clock offset: -6.25 ms

# Below is generated by plot.py at 2019-02-05 09:36:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.07 Mbit/s
95th percentile per-packet one-way delay: 62.195 ms
Loss rate: 28.73%
-- Flow 1:
Average throughput: 60.65 Mbit/s
95th percentile per-packet one-way delay: 60.302 ms
Loss rate: 22.69%
-- Flow 2:
Average throughput: 42.56 Mbit/s
95th percentile per-packet one-way delay: 64.057 ms
Loss rate: 39.14%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 62.196 ms
Loss rate: 30.80%
```

## Run 2: Report of Indigo-MusesT — Data Link

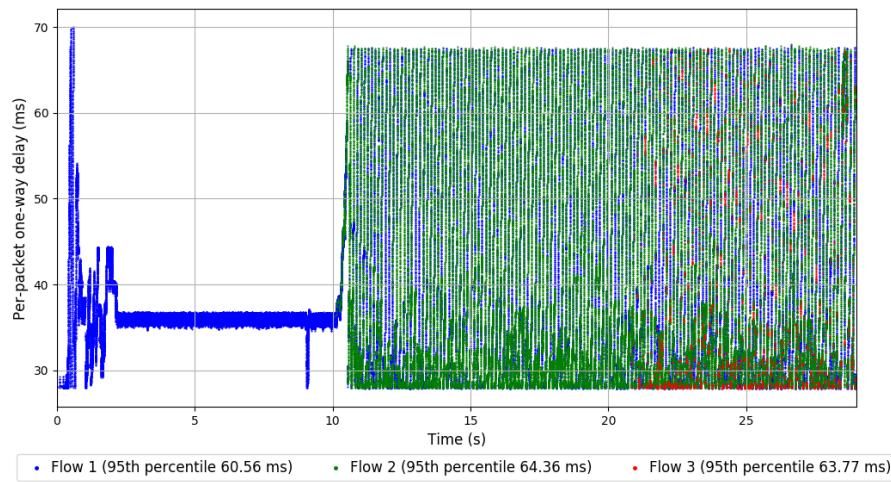
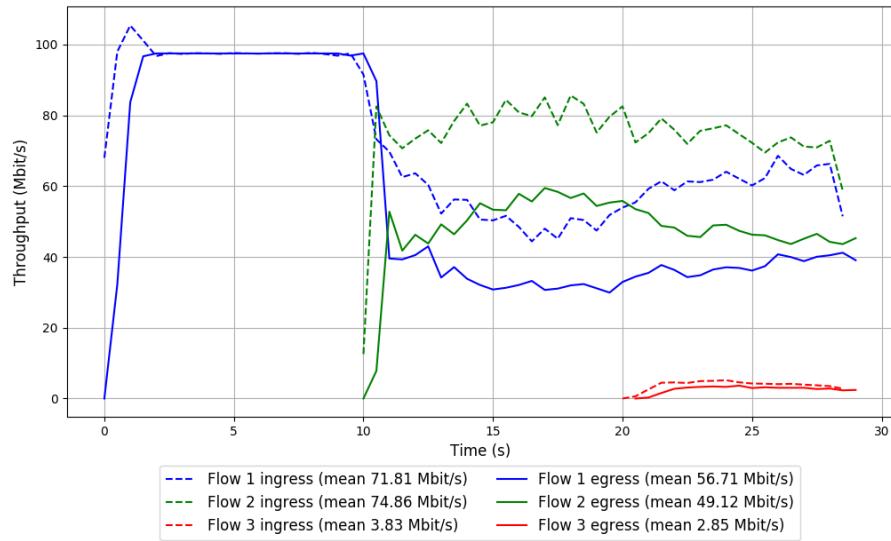


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 08:13:58
End at: 2019-02-05 08:14:28
Local clock offset: 0.656 ms
Remote clock offset: -5.668 ms

# Below is generated by plot.py at 2019-02-05 09:37:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 62.748 ms
Loss rate: 26.48%
-- Flow 1:
Average throughput: 56.71 Mbit/s
95th percentile per-packet one-way delay: 60.560 ms
Loss rate: 21.03%
-- Flow 2:
Average throughput: 49.12 Mbit/s
95th percentile per-packet one-way delay: 64.364 ms
Loss rate: 34.41%
-- Flow 3:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 29.93%
```

### Run 3: Report of Indigo-MusesT — Data Link

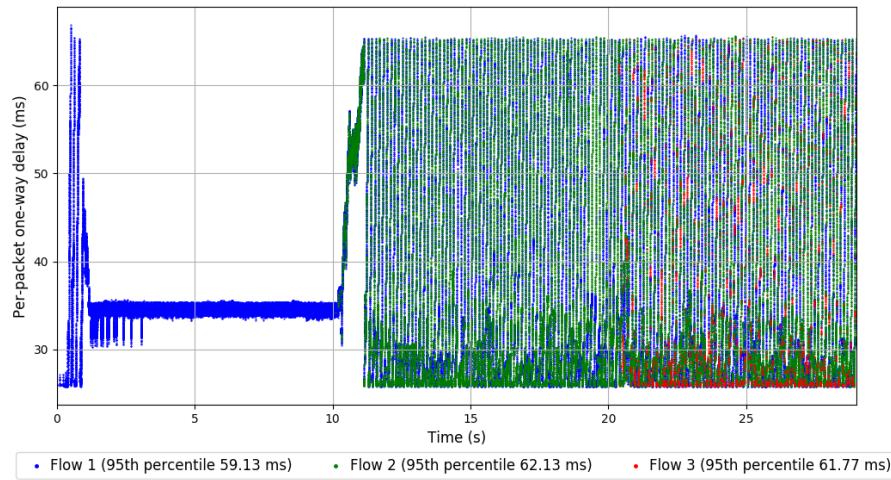
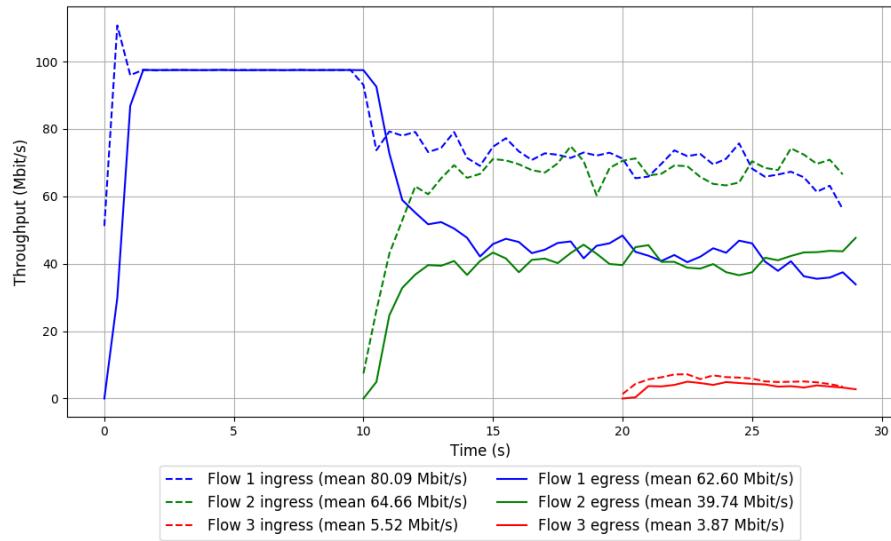


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 08:39:33
End at: 2019-02-05 08:40:03
Local clock offset: -0.23 ms
Remote clock offset: -7.076 ms

# Below is generated by plot.py at 2019-02-05 09:37:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.66 Mbit/s
95th percentile per-packet one-way delay: 60.477 ms
Loss rate: 27.56%
-- Flow 1:
Average throughput: 62.60 Mbit/s
95th percentile per-packet one-way delay: 59.130 ms
Loss rate: 21.77%
-- Flow 2:
Average throughput: 39.74 Mbit/s
95th percentile per-packet one-way delay: 62.128 ms
Loss rate: 38.49%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 61.767 ms
Loss rate: 29.77%
```

Run 4: Report of Indigo-MusesT — Data Link

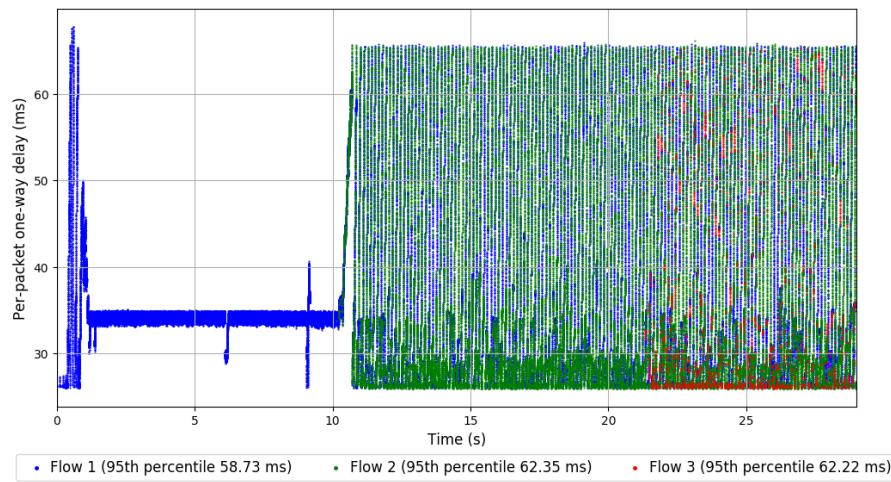
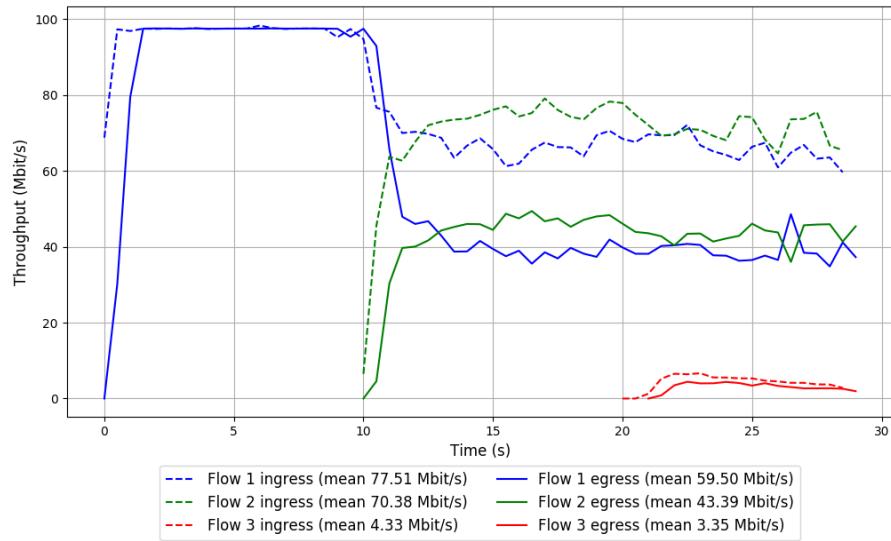


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 09:04:51
End at: 2019-02-05 09:05:21
Local clock offset: -0.57 ms
Remote clock offset: -6.617 ms

# Below is generated by plot.py at 2019-02-05 09:37:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.62 Mbit/s
95th percentile per-packet one-way delay: 60.520 ms
Loss rate: 28.88%
-- Flow 1:
Average throughput: 59.50 Mbit/s
95th percentile per-packet one-way delay: 58.732 ms
Loss rate: 23.23%
-- Flow 2:
Average throughput: 43.39 Mbit/s
95th percentile per-packet one-way delay: 62.355 ms
Loss rate: 38.36%
-- Flow 3:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 62.220 ms
Loss rate: 31.71%
```

Run 5: Report of Indigo-MusesT — Data Link

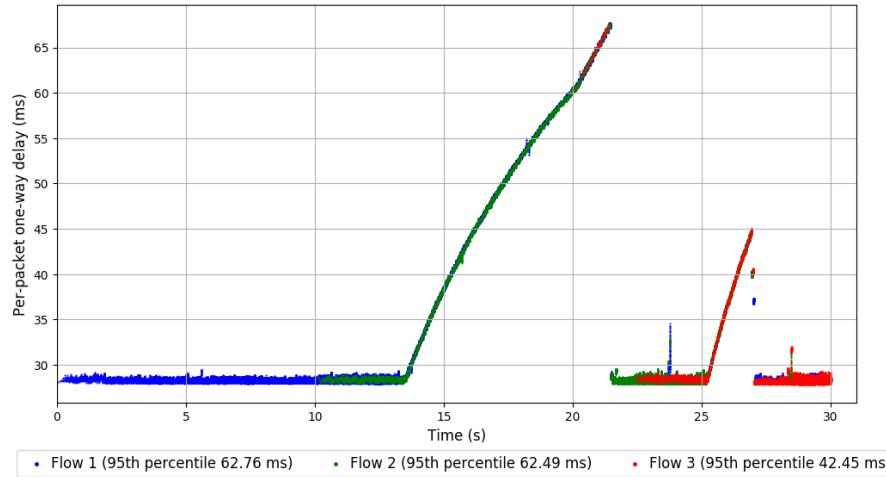
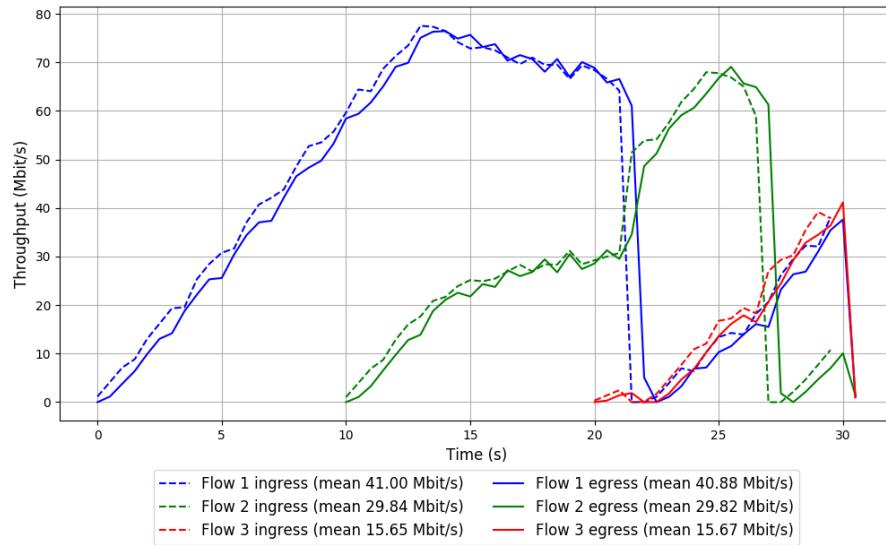


```
Run 1: Statistics of LEDBAT

Start at: 2019-02-05 07:26:30
End at: 2019-02-05 07:27:00
Local clock offset: 6.932 ms
Remote clock offset: -7.089 ms

# Below is generated by plot.py at 2019-02-05 09:37:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.93 Mbit/s
95th percentile per-packet one-way delay: 62.284 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 62.757 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 29.82 Mbit/s
95th percentile per-packet one-way delay: 62.487 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 15.67 Mbit/s
95th percentile per-packet one-way delay: 42.451 ms
Loss rate: 0.19%
```

Run 1: Report of LEDBAT — Data Link

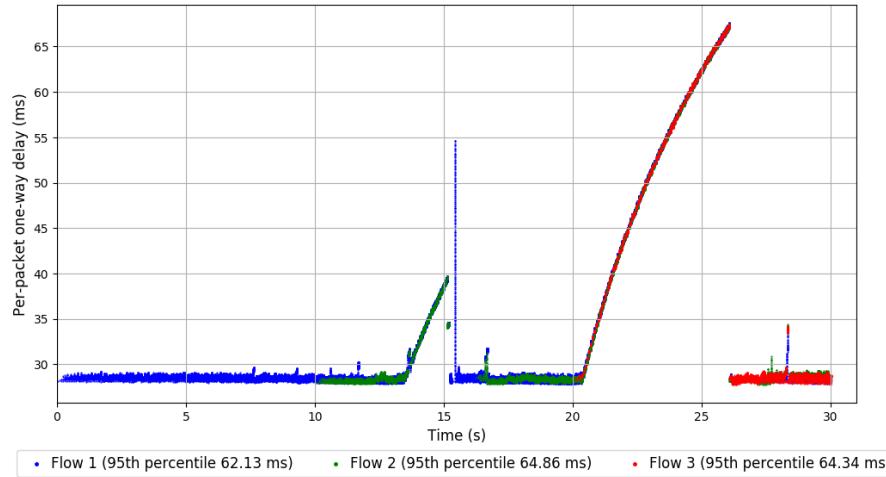
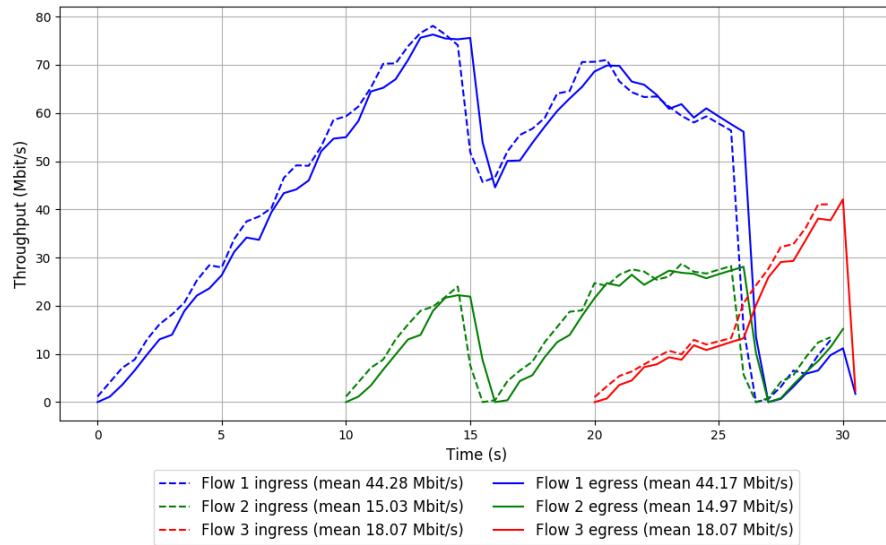


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-05 07:52:00
End at: 2019-02-05 07:52:30
Local clock offset: 4.025 ms
Remote clock offset: -6.213 ms

# Below is generated by plot.py at 2019-02-05 09:37:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.11 Mbit/s
95th percentile per-packet one-way delay: 63.278 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 44.17 Mbit/s
95th percentile per-packet one-way delay: 62.127 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 14.97 Mbit/s
95th percentile per-packet one-way delay: 64.863 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 64.342 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link

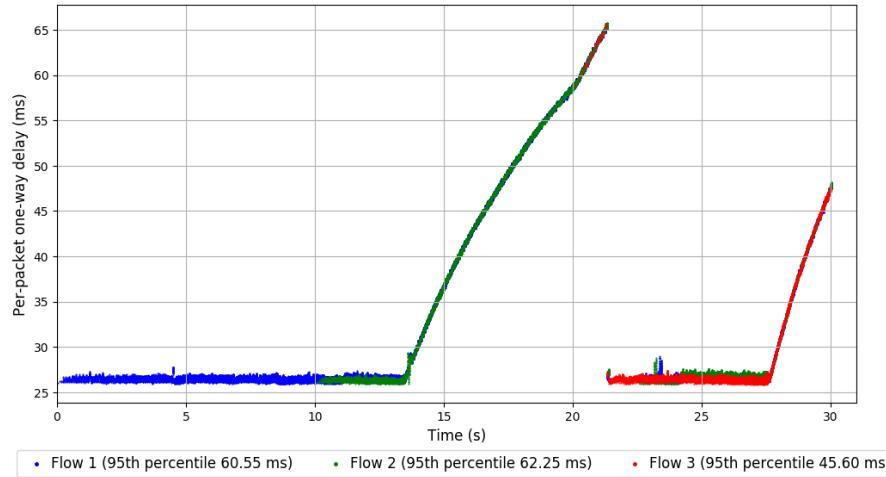
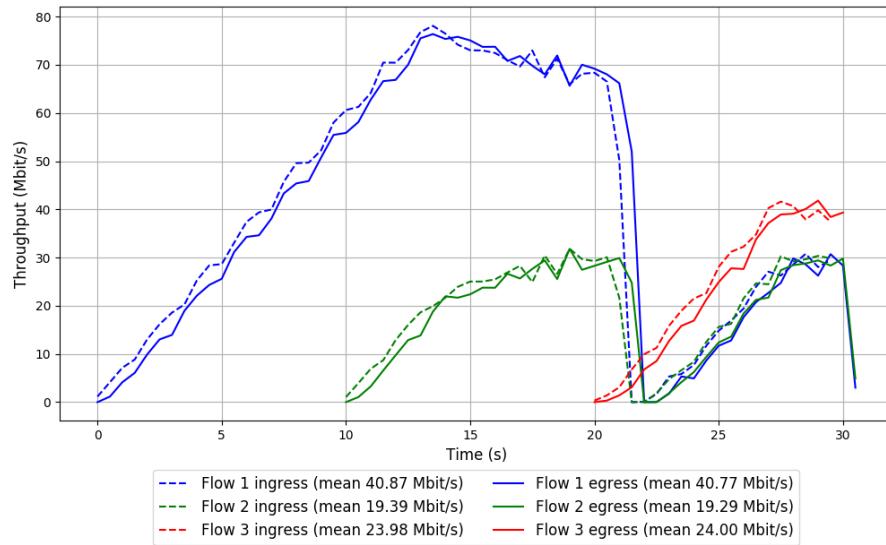


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-05 08:17:40
End at: 2019-02-05 08:18:10
Local clock offset: 0.485 ms
Remote clock offset: -7.667 ms

# Below is generated by plot.py at 2019-02-05 09:37:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.52 Mbit/s
95th percentile per-packet one-way delay: 60.531 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 40.77 Mbit/s
95th percentile per-packet one-way delay: 60.553 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 19.29 Mbit/s
95th percentile per-packet one-way delay: 62.249 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 45.598 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

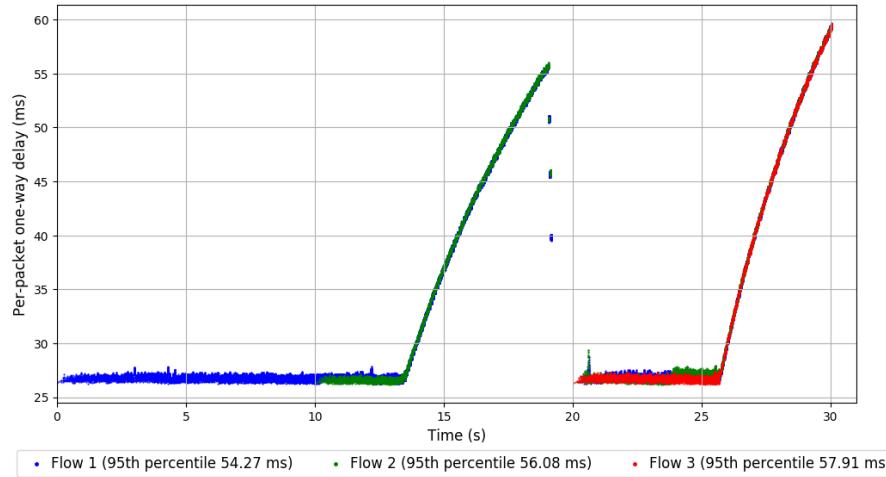
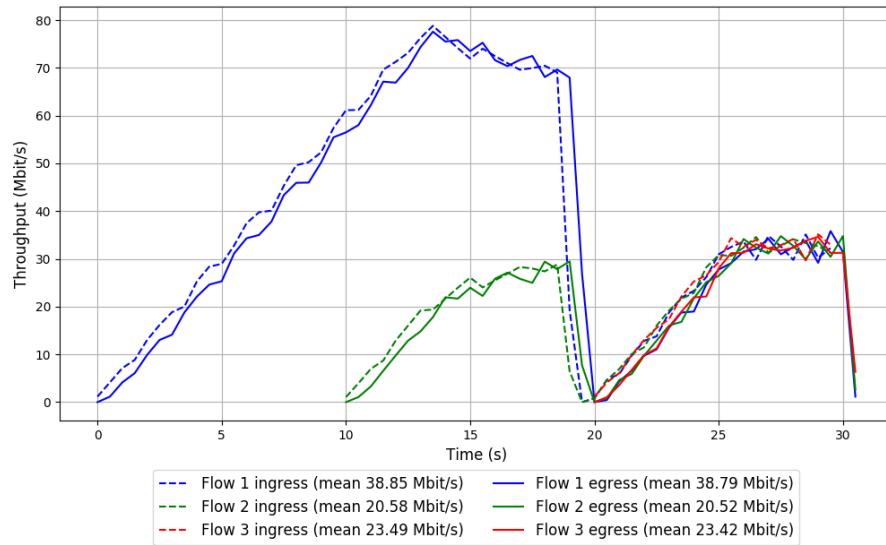


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-05 08:43:13
End at: 2019-02-05 08:43:43
Local clock offset: -0.436 ms
Remote clock offset: -6.522 ms

# Below is generated by plot.py at 2019-02-05 09:37:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.24 Mbit/s
95th percentile per-packet one-way delay: 55.204 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 54.269 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 20.52 Mbit/s
95th percentile per-packet one-way delay: 56.076 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 57.909 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

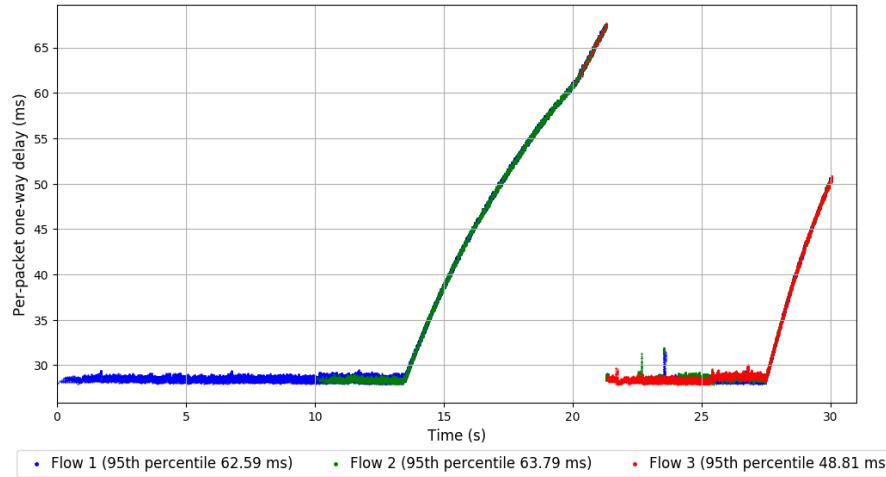
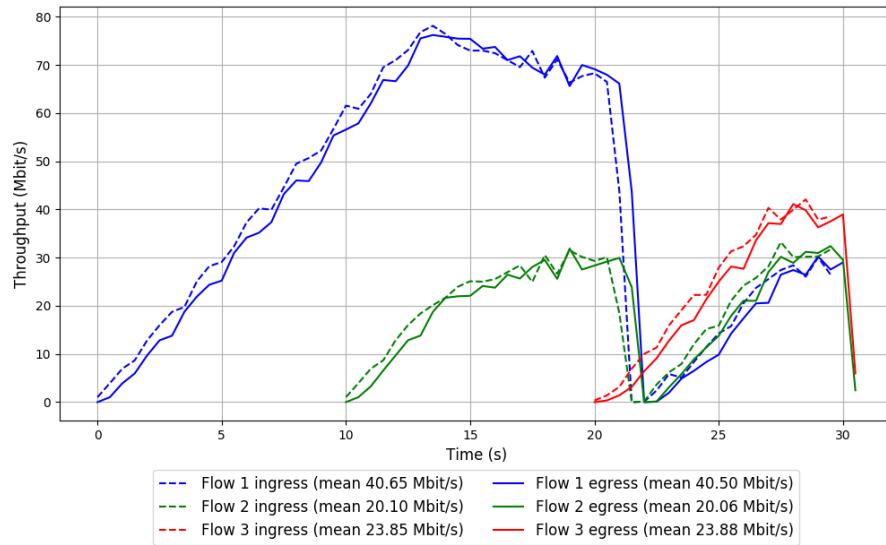


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-05 09:08:33
End at: 2019-02-05 09:09:03
Local clock offset: -0.691 ms
Remote clock offset: -4.614 ms

# Below is generated by plot.py at 2019-02-05 09:37:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.70 Mbit/s
95th percentile per-packet one-way delay: 62.357 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 40.50 Mbit/s
95th percentile per-packet one-way delay: 62.589 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 20.06 Mbit/s
95th percentile per-packet one-way delay: 63.791 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 23.88 Mbit/s
95th percentile per-packet one-way delay: 48.808 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

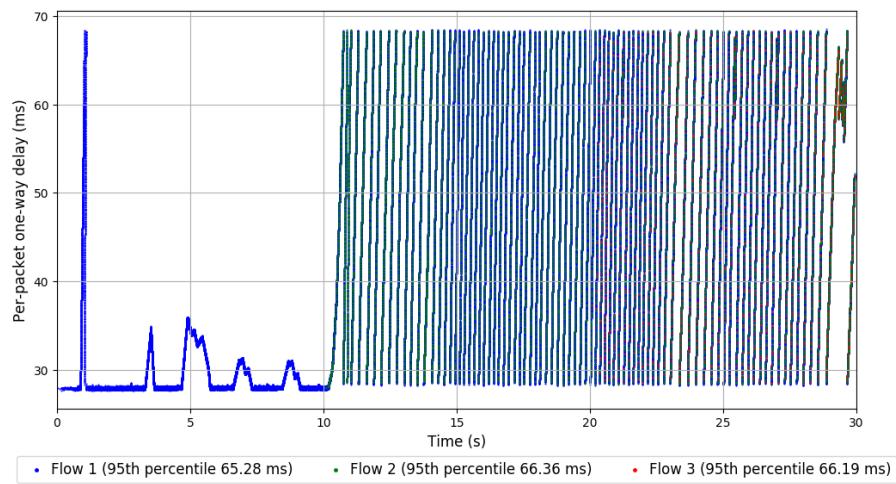
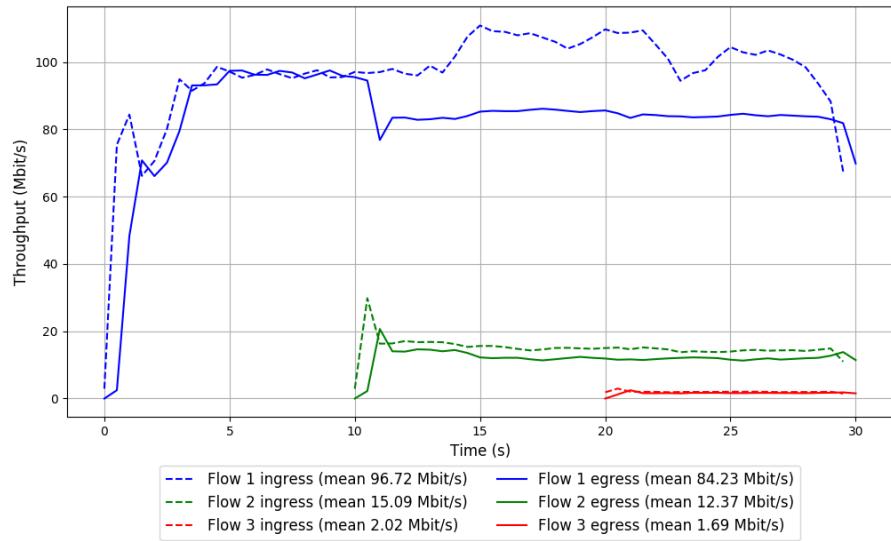


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-02-05 07:38:25
End at: 2019-02-05 07:38:55
Local clock offset: 6.646 ms
Remote clock offset: -7.006 ms

# Below is generated by plot.py at 2019-02-05 09:38:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 65.430 ms
Loss rate: 13.34%
-- Flow 1:
Average throughput: 84.23 Mbit/s
95th percentile per-packet one-way delay: 65.277 ms
Loss rate: 12.84%
-- Flow 2:
Average throughput: 12.37 Mbit/s
95th percentile per-packet one-way delay: 66.362 ms
Loss rate: 17.91%
-- Flow 3:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 66.185 ms
Loss rate: 16.62%
```

Run 1: Report of PCC-Allegro — Data Link

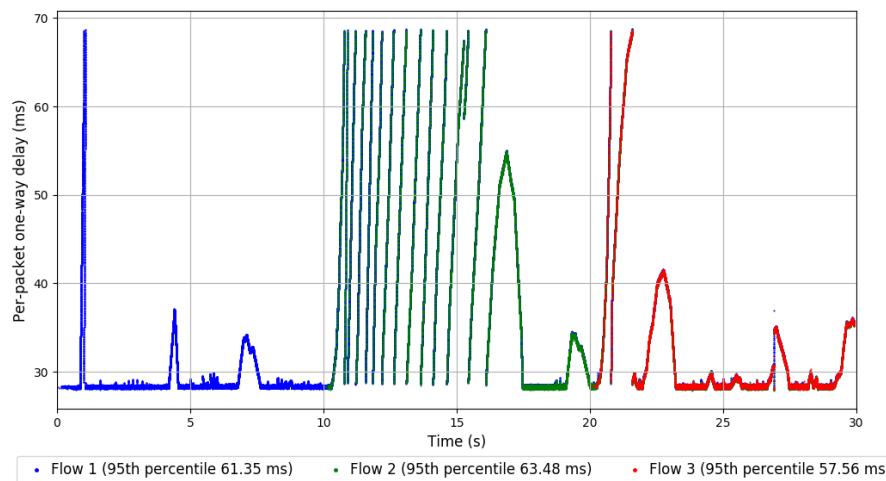
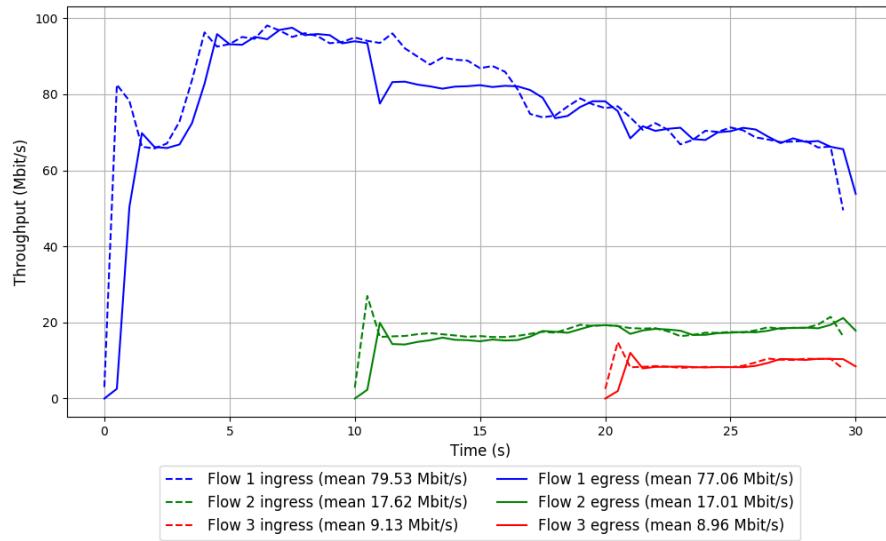


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-05 08:04:08
End at: 2019-02-05 08:04:38
Local clock offset: 1.548 ms
Remote clock offset: -5.804 ms

# Below is generated by plot.py at 2019-02-05 09:38:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 61.639 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 77.06 Mbit/s
95th percentile per-packet one-way delay: 61.355 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 17.01 Mbit/s
95th percentile per-packet one-way delay: 63.478 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 8.96 Mbit/s
95th percentile per-packet one-way delay: 57.563 ms
Loss rate: 1.80%
```

## Run 2: Report of PCC-Allegro — Data Link

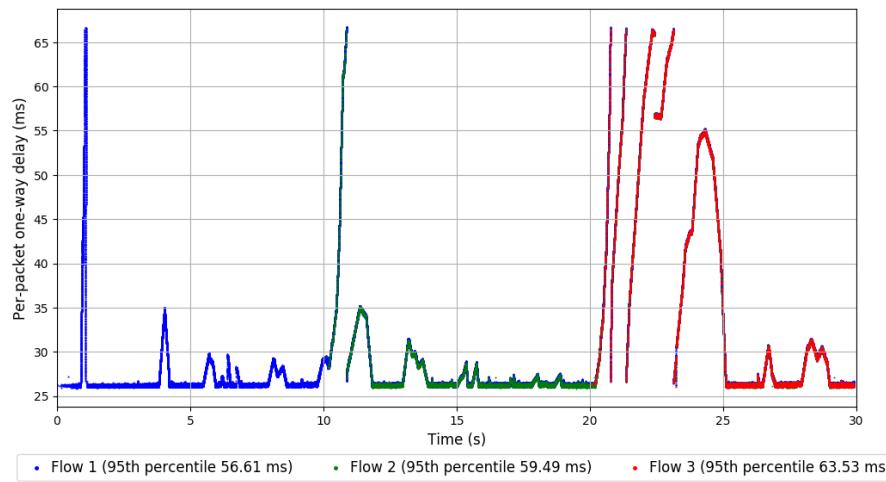
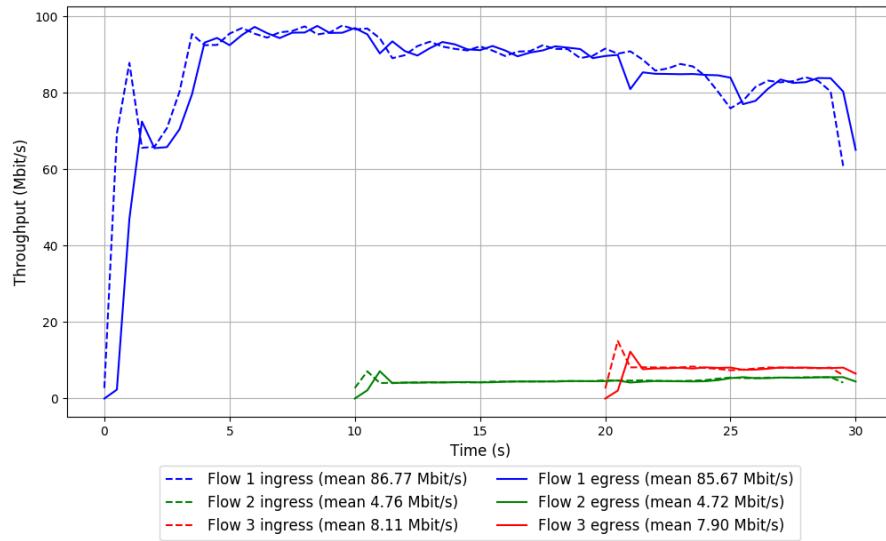


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-05 08:29:50
End at: 2019-02-05 08:30:20
Local clock offset: 0.173 ms
Remote clock offset: -7.289 ms

# Below is generated by plot.py at 2019-02-05 09:38:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.41 Mbit/s
95th percentile per-packet one-way delay: 56.724 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 56.609 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 4.72 Mbit/s
95th percentile per-packet one-way delay: 59.491 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 63.530 ms
Loss rate: 2.57%
```

Run 3: Report of PCC-Allegro — Data Link

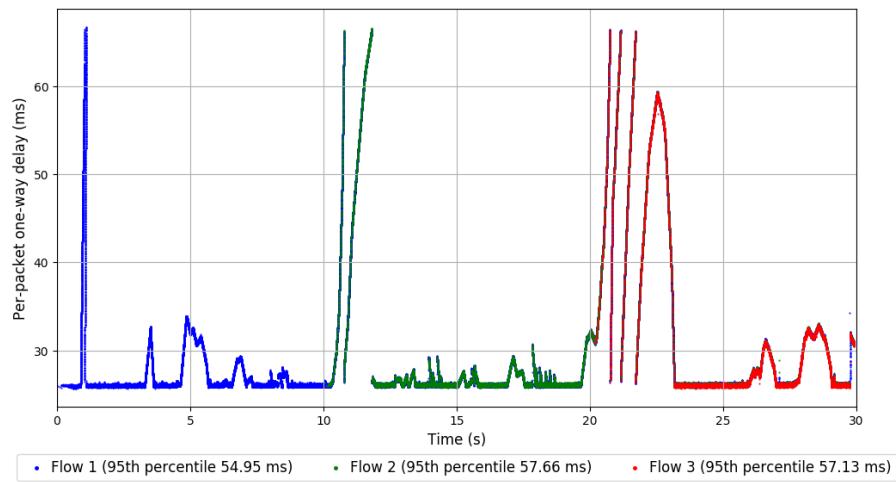
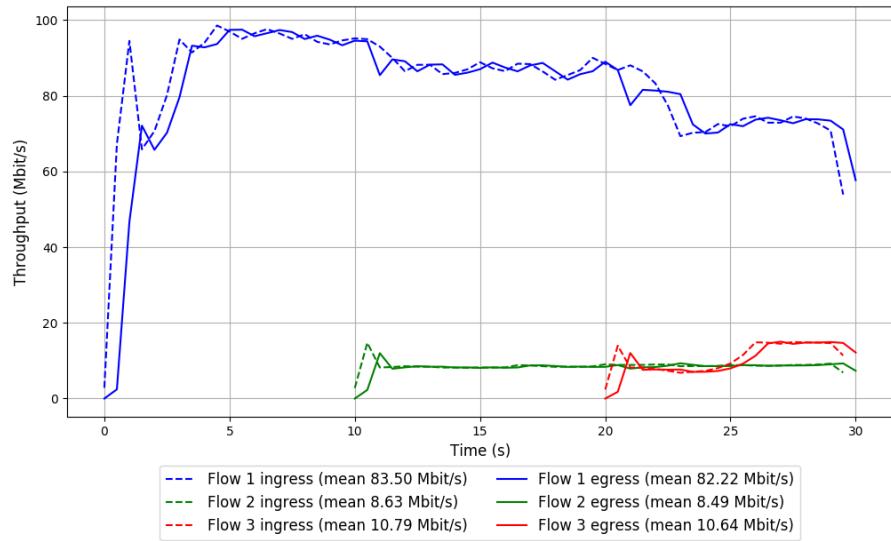


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-05 08:55:08
End at: 2019-02-05 08:55:38
Local clock offset: -0.393 ms
Remote clock offset: -6.808 ms

# Below is generated by plot.py at 2019-02-05 09:38:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.37 Mbit/s
95th percentile per-packet one-way delay: 55.391 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 54.948 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 57.657 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 10.64 Mbit/s
95th percentile per-packet one-way delay: 57.128 ms
Loss rate: 1.39%
```

Run 4: Report of PCC-Allegro — Data Link

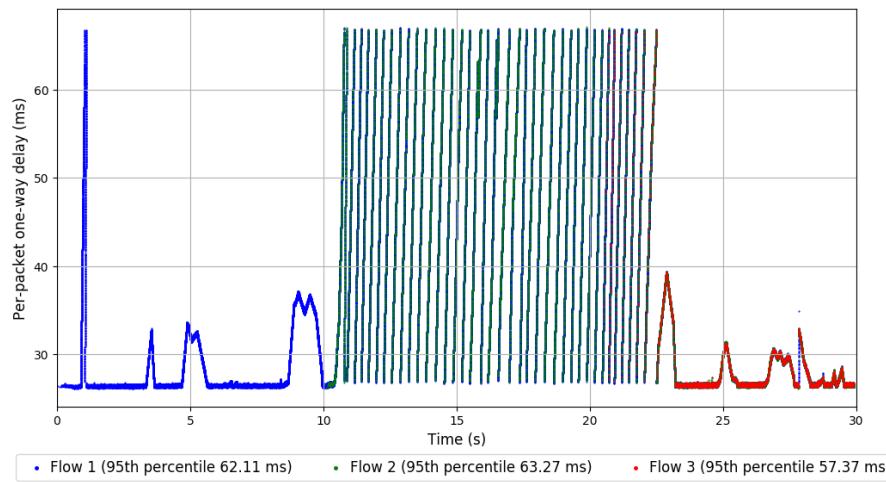
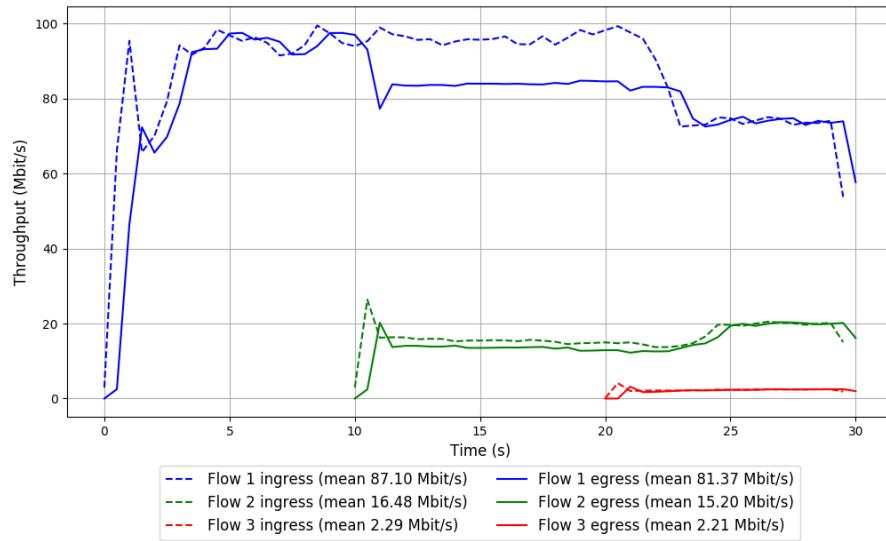


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-05 09:20:29
End at: 2019-02-05 09:20:59
Local clock offset: -0.811 ms
Remote clock offset: -6.334 ms

# Below is generated by plot.py at 2019-02-05 09:38:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.20 Mbit/s
95th percentile per-packet one-way delay: 62.261 ms
Loss rate: 6.70%
-- Flow 1:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 62.111 ms
Loss rate: 6.59%
-- Flow 2:
Average throughput: 15.20 Mbit/s
95th percentile per-packet one-way delay: 63.265 ms
Loss rate: 7.80%
-- Flow 3:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 57.369 ms
Loss rate: 3.87%
```

Run 5: Report of PCC-Allegro — Data Link

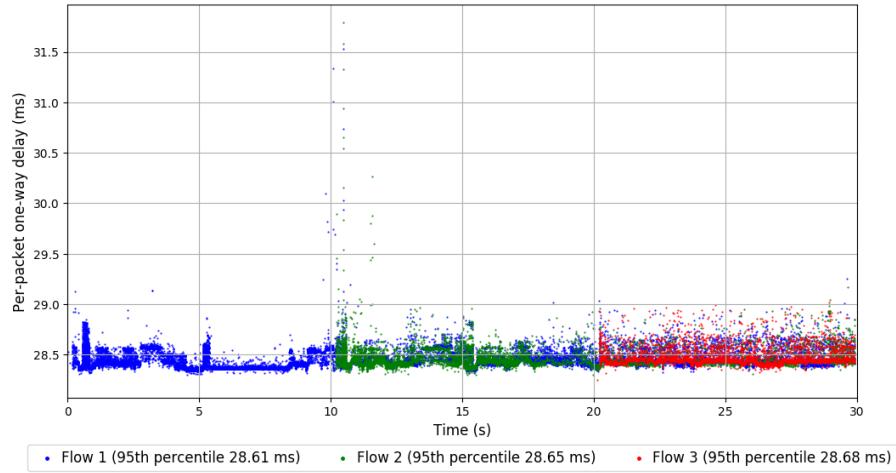
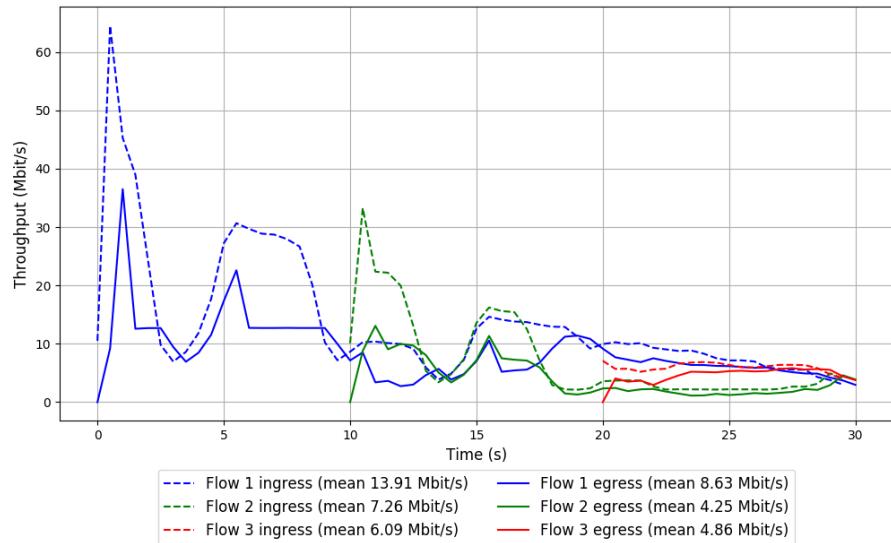


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-02-05 07:36:02
End at: 2019-02-05 07:36:32
Local clock offset: 6.66 ms
Remote clock offset: -6.434 ms

# Below is generated by plot.py at 2019-02-05 09:38:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 28.632 ms
Loss rate: 37.06%
-- Flow 1:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 28.611 ms
Loss rate: 37.96%
-- Flow 2:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 28.646 ms
Loss rate: 41.49%
-- Flow 3:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 28.678 ms
Loss rate: 20.24%
```

## Run 1: Report of PCC-Expr — Data Link

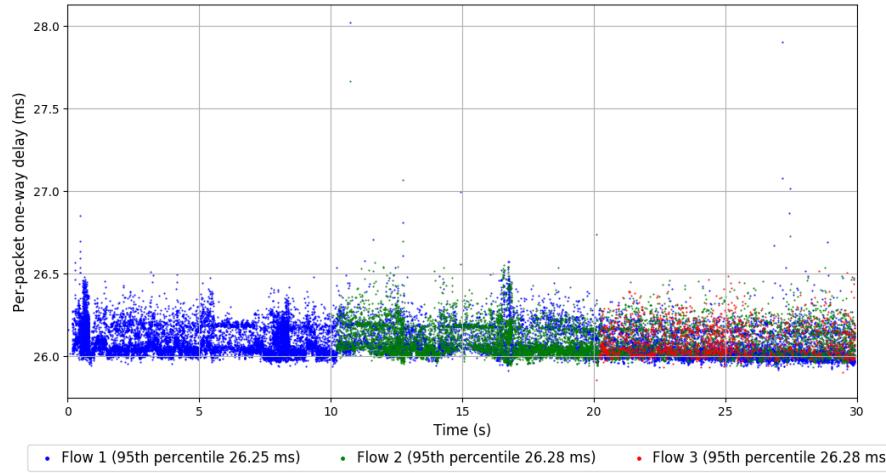
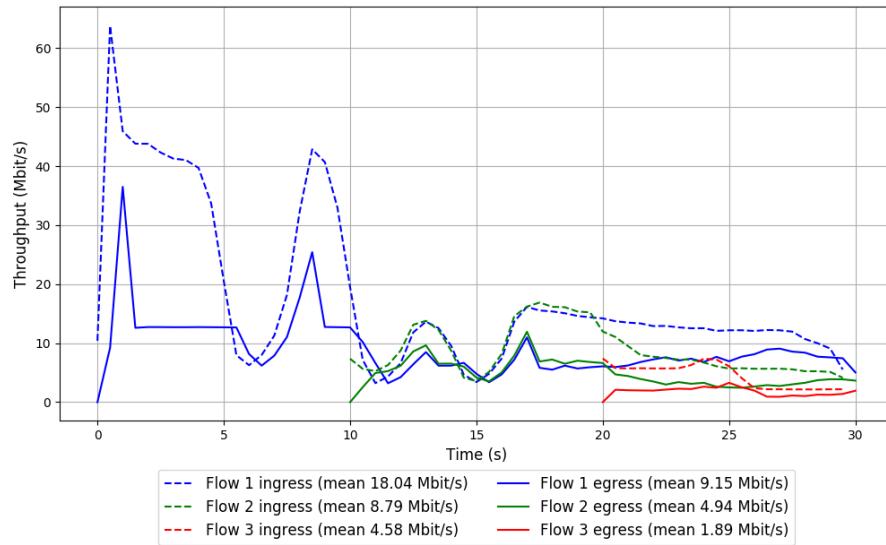


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-05 08:01:44
End at: 2019-02-05 08:02:14
Local clock offset: 1.86 ms
Remote clock offset: -7.918 ms

# Below is generated by plot.py at 2019-02-05 09:38:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 26.262 ms
Loss rate: 48.57%
-- Flow 1:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 26.255 ms
Loss rate: 49.28%
-- Flow 2:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 26.276 ms
Loss rate: 43.78%
-- Flow 3:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 26.278 ms
Loss rate: 58.69%
```

## Run 2: Report of PCC-Expr — Data Link

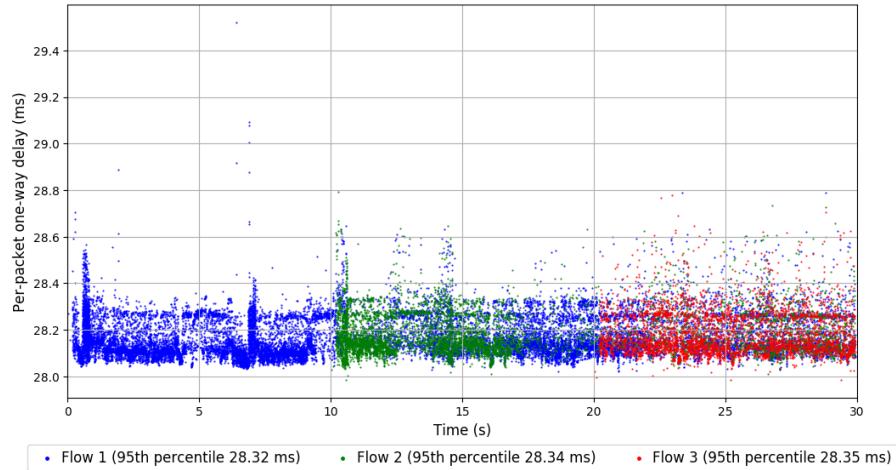
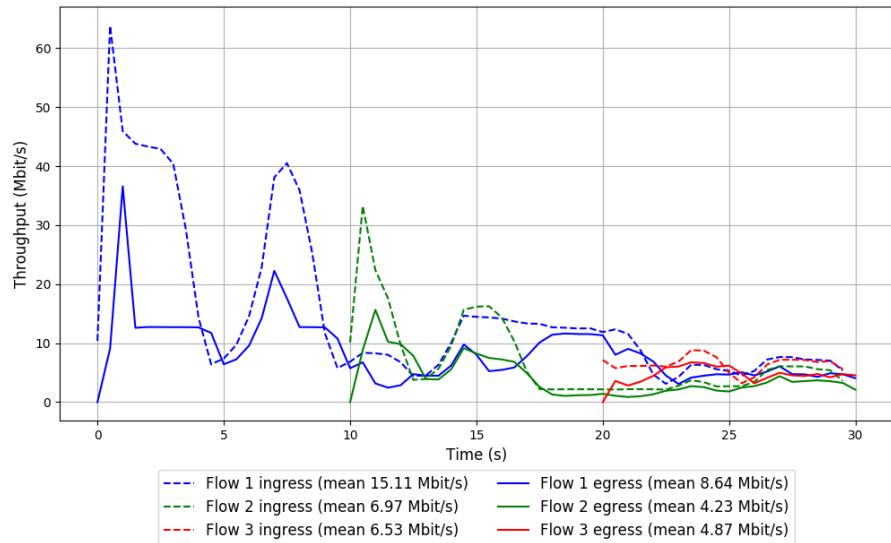


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-05 08:27:30
End at: 2019-02-05 08:28:00
Local clock offset: 0.245 ms
Remote clock offset: -5.274 ms

# Below is generated by plot.py at 2019-02-05 09:38:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 28.326 ms
Loss rate: 40.37%
-- Flow 1:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 28.318 ms
Loss rate: 42.82%
-- Flow 2:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 28.337 ms
Loss rate: 39.37%
-- Flow 3:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 28.350 ms
Loss rate: 25.39%
```

Run 3: Report of PCC-Expr — Data Link

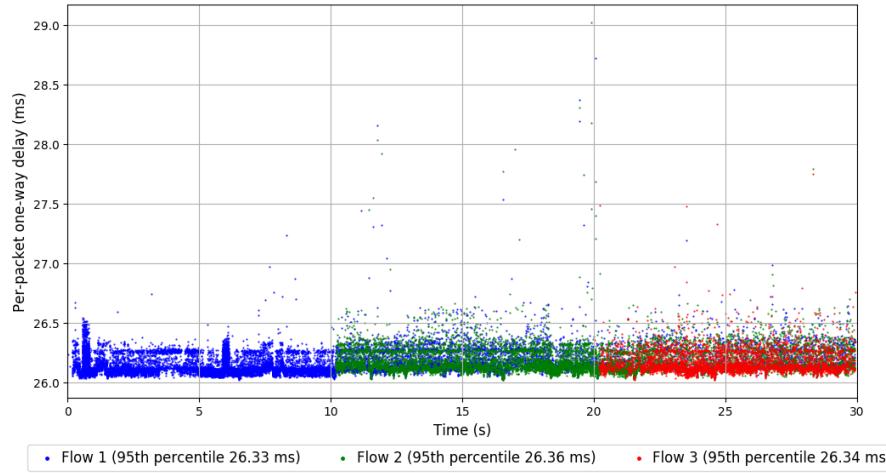
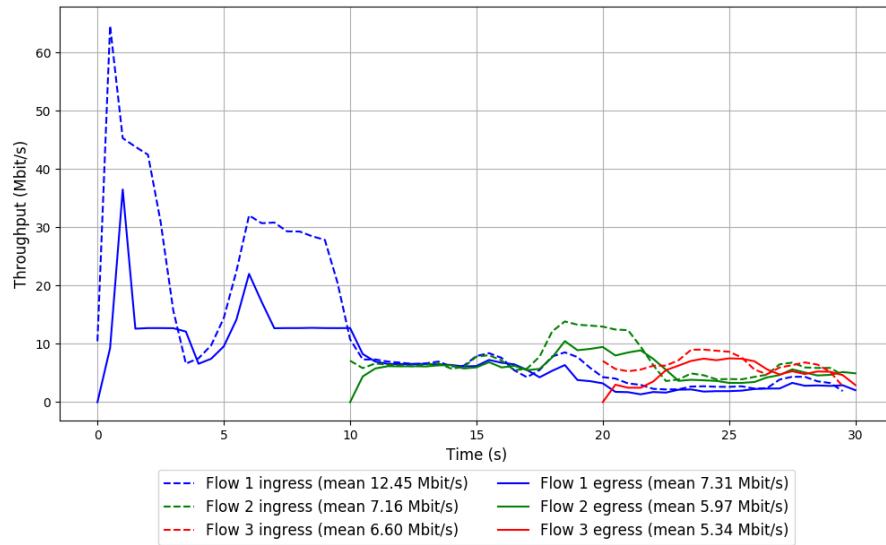


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-05 08:52:47
End at: 2019-02-05 08:53:17
Local clock offset: -0.4 ms
Remote clock offset: -6.583 ms

# Below is generated by plot.py at 2019-02-05 09:38:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 26.345 ms
Loss rate: 32.71%
-- Flow 1:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 26.333 ms
Loss rate: 41.24%
-- Flow 2:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 26.365 ms
Loss rate: 16.68%
-- Flow 3:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 26.344 ms
Loss rate: 19.05%
```

Run 4: Report of PCC-Expr — Data Link

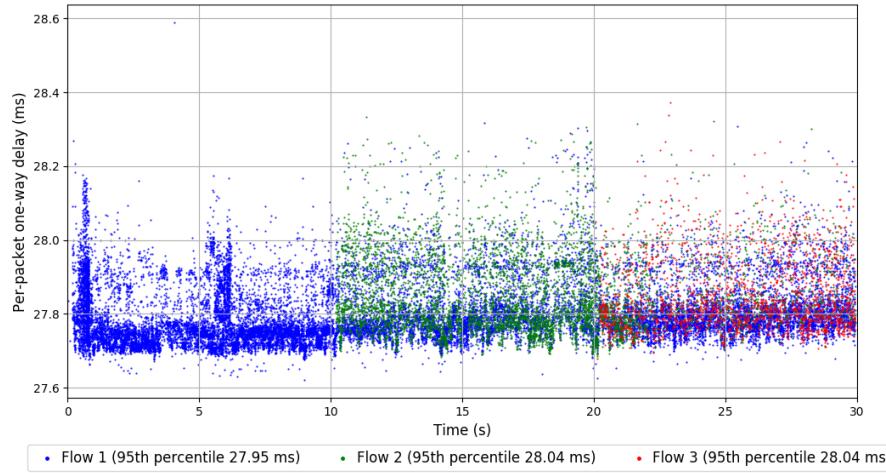
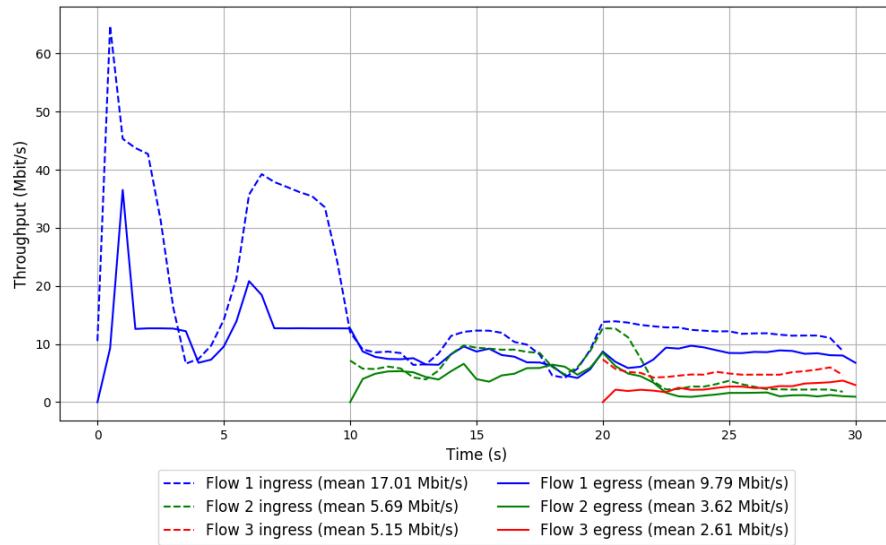


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-05 09:18:09
End at: 2019-02-05 09:18:39
Local clock offset: -0.87 ms
Remote clock offset: -4.905 ms

# Below is generated by plot.py at 2019-02-05 09:38:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 27.986 ms
Loss rate: 41.95%
-- Flow 1:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 27.954 ms
Loss rate: 42.45%
-- Flow 2:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 28.037 ms
Loss rate: 36.34%
-- Flow 3:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 28.036 ms
Loss rate: 49.46%
```

Run 5: Report of PCC-Expr — Data Link

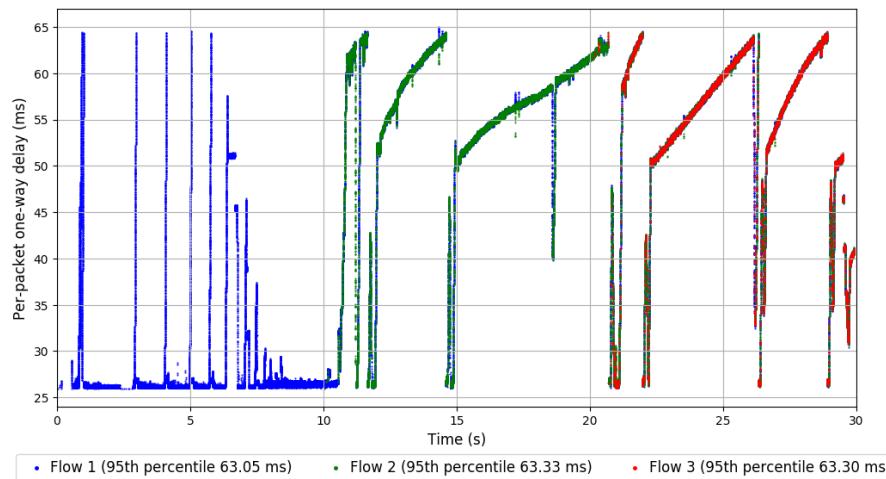
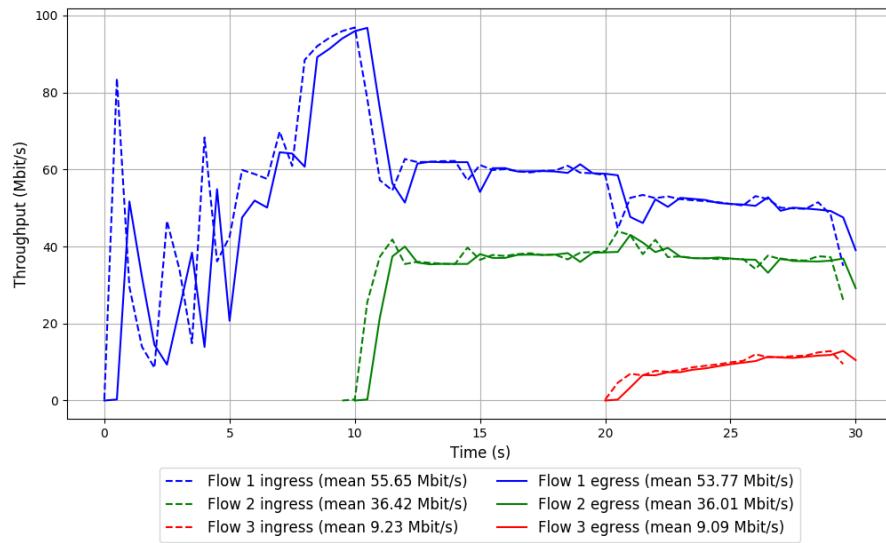


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-02-05 07:28:56
End at: 2019-02-05 07:29:26
Local clock offset: 6.8 ms
Remote clock offset: -8.859 ms

# Below is generated by plot.py at 2019-02-05 09:38:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.72 Mbit/s
95th percentile per-packet one-way delay: 63.147 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 53.77 Mbit/s
95th percentile per-packet one-way delay: 63.048 ms
Loss rate: 3.33%
-- Flow 2:
Average throughput: 36.01 Mbit/s
95th percentile per-packet one-way delay: 63.326 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 63.297 ms
Loss rate: 1.70%
```

Run 1: Report of QUIC Cubic — Data Link

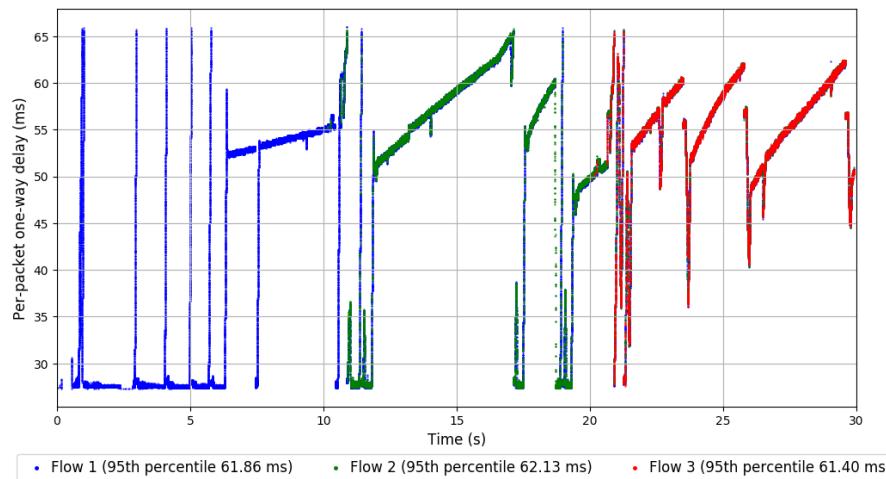
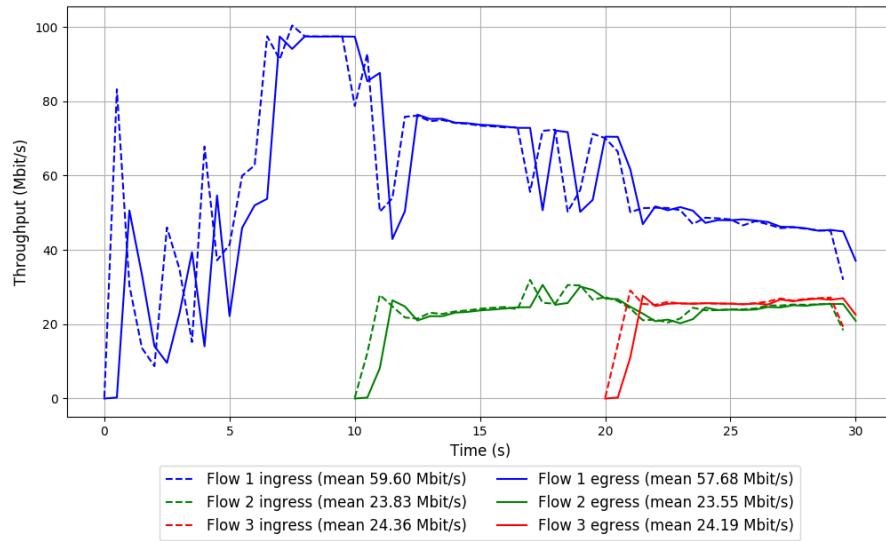


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-05 07:54:25
End at: 2019-02-05 07:54:55
Local clock offset: 3.317 ms
Remote clock offset: -6.549 ms

# Below is generated by plot.py at 2019-02-05 09:39:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.27 Mbit/s
95th percentile per-packet one-way delay: 61.857 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 57.68 Mbit/s
95th percentile per-packet one-way delay: 61.860 ms
Loss rate: 3.14%
-- Flow 2:
Average throughput: 23.55 Mbit/s
95th percentile per-packet one-way delay: 62.128 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 61.402 ms
Loss rate: 0.68%
```

Run 2: Report of QUIC Cubic — Data Link

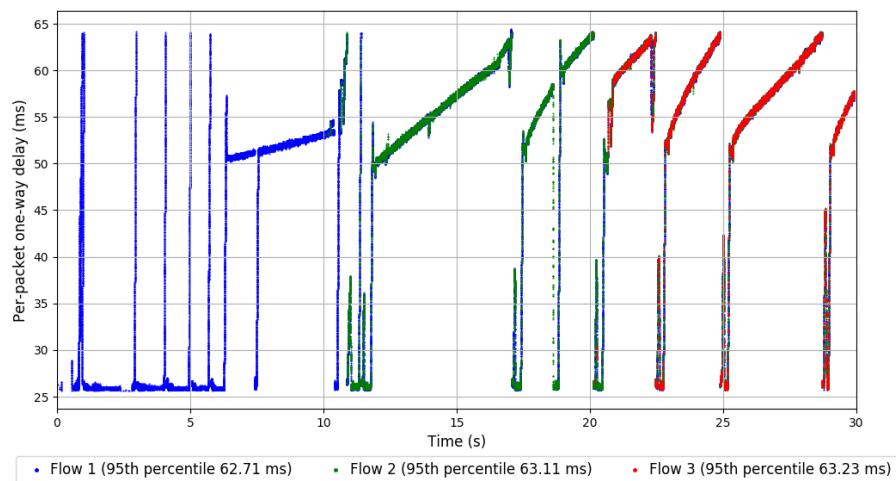
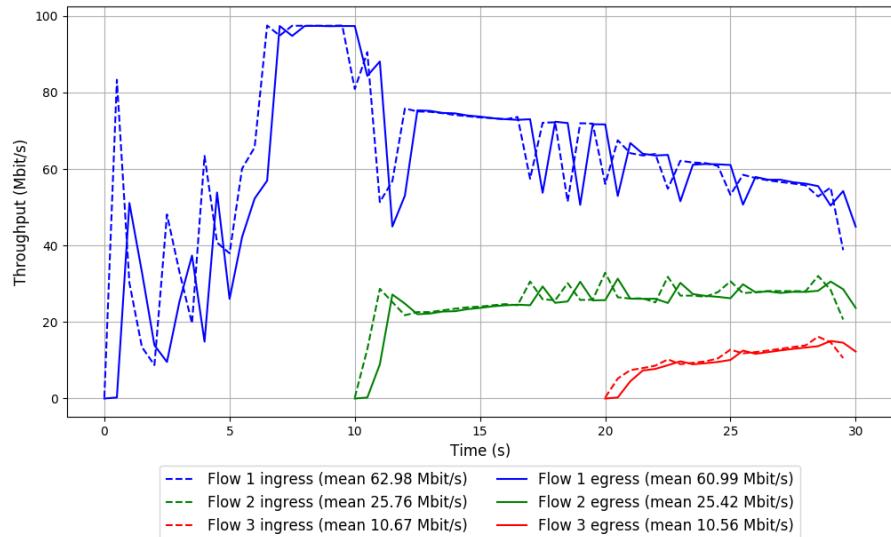


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-05 08:20:14
End at: 2019-02-05 08:20:44
Local clock offset: 0.459 ms
Remote clock offset: -7.675 ms

# Below is generated by plot.py at 2019-02-05 09:39:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.33 Mbit/s
95th percentile per-packet one-way delay: 62.880 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 60.99 Mbit/s
95th percentile per-packet one-way delay: 62.707 ms
Loss rate: 3.05%
-- Flow 2:
Average throughput: 25.42 Mbit/s
95th percentile per-packet one-way delay: 63.108 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 10.56 Mbit/s
95th percentile per-packet one-way delay: 63.232 ms
Loss rate: 1.13%
```

### Run 3: Report of QUIC Cubic — Data Link

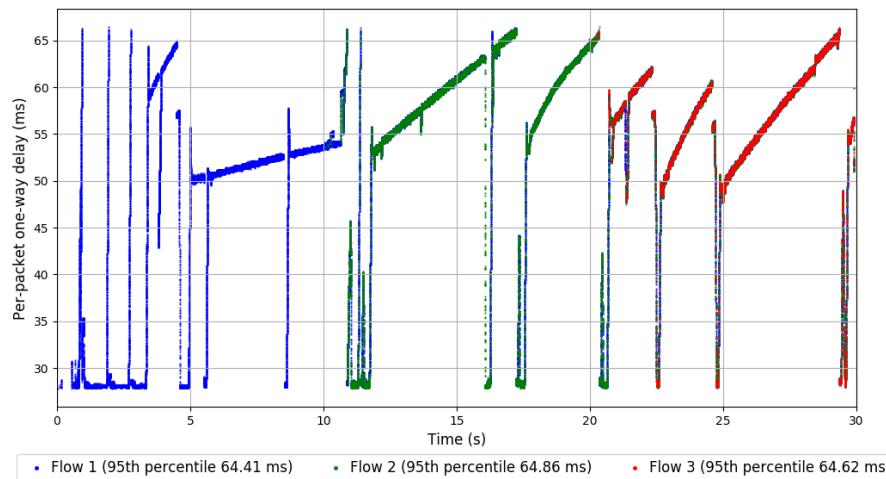
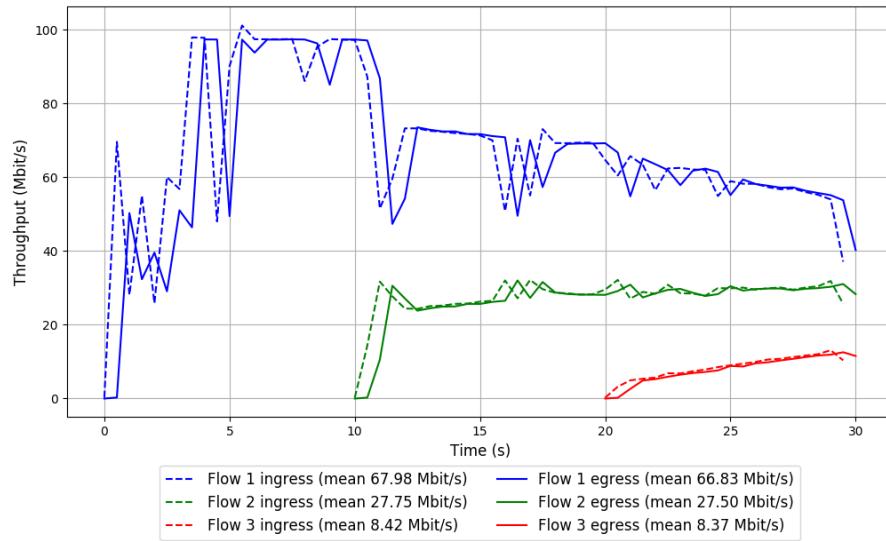


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-05 08:45:39
End at: 2019-02-05 08:46:09
Local clock offset: -0.542 ms
Remote clock offset: -4.803 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 64.577 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 66.83 Mbit/s
95th percentile per-packet one-way delay: 64.413 ms
Loss rate: 1.61%
-- Flow 2:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 64.856 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 64.616 ms
Loss rate: 0.62%
```

Run 4: Report of QUIC Cubic — Data Link

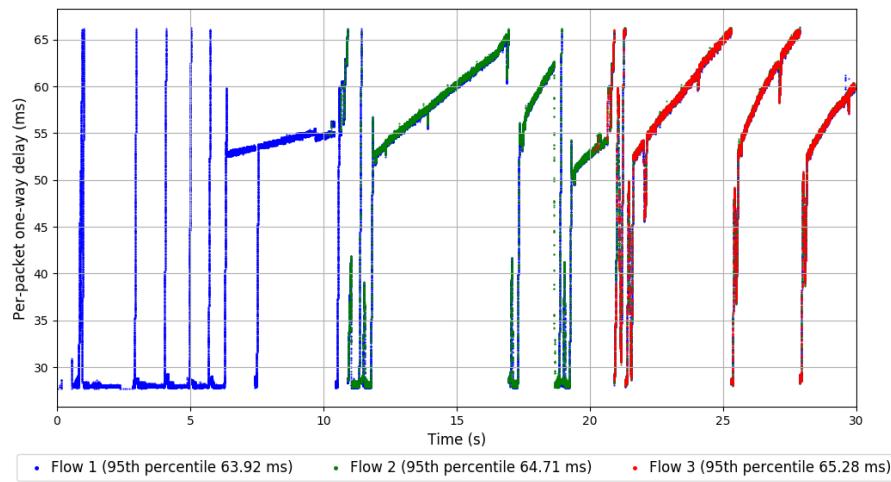
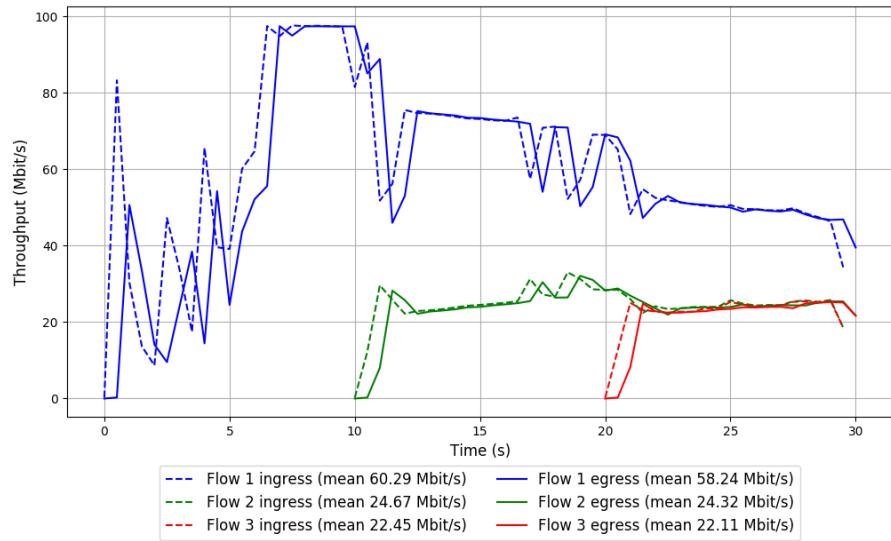


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-05 09:11:00
End at: 2019-02-05 09:11:30
Local clock offset: -0.788 ms
Remote clock offset: -4.692 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.64 Mbit/s
95th percentile per-packet one-way delay: 64.303 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 58.24 Mbit/s
95th percentile per-packet one-way delay: 63.921 ms
Loss rate: 3.29%
-- Flow 2:
Average throughput: 24.32 Mbit/s
95th percentile per-packet one-way delay: 64.709 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 22.11 Mbit/s
95th percentile per-packet one-way delay: 65.285 ms
Loss rate: 1.45%
```

Run 5: Report of QUIC Cubic — Data Link

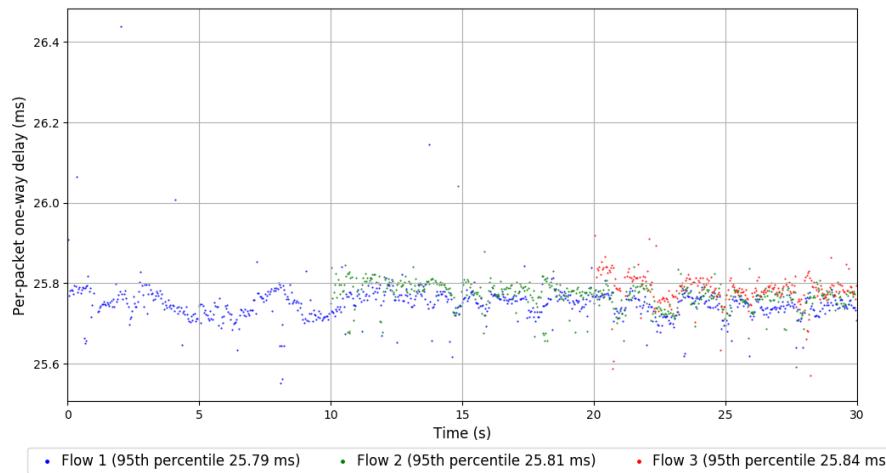
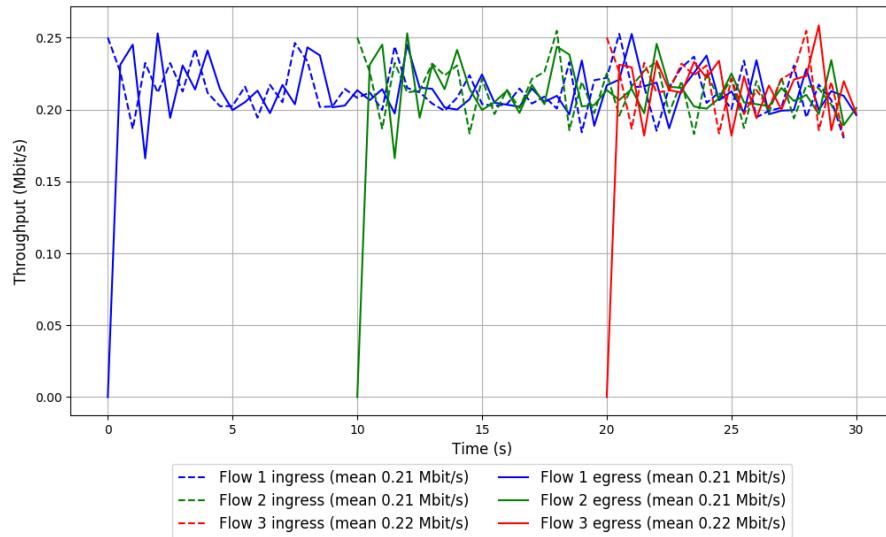


```
Run 1: Statistics of SCReAM

Start at: 2019-02-05 07:30:08
End at: 2019-02-05 07:30:38
Local clock offset: 6.768 ms
Remote clock offset: -9.305 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 25.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.814 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.839 ms
Loss rate: 0.00%
```

## Run 1: Report of SCReAM — Data Link

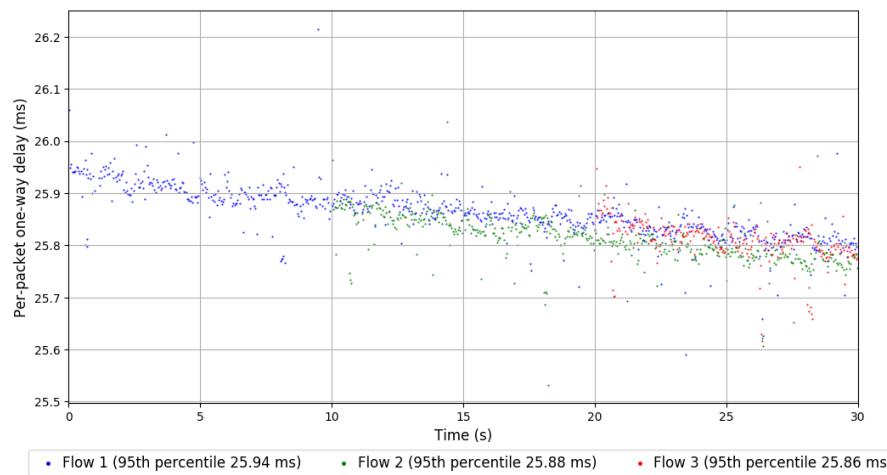
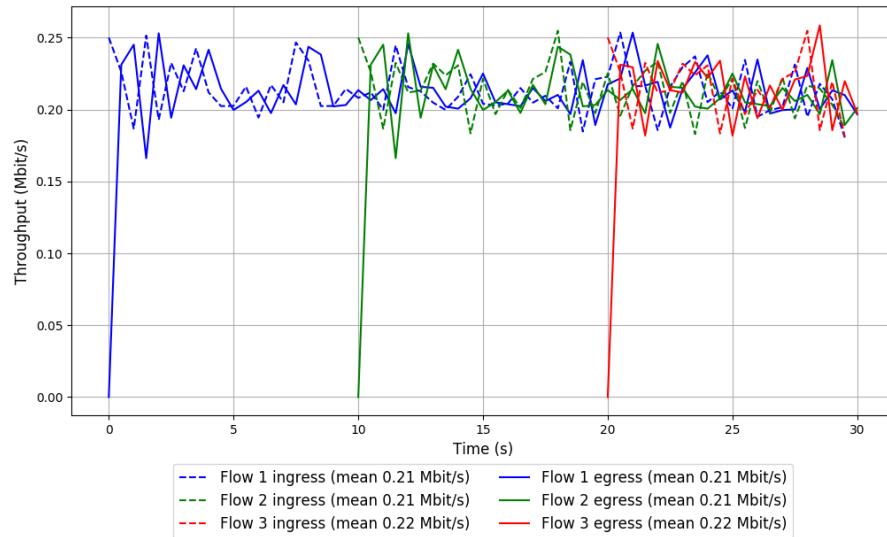


Run 2: Statistics of SCReAM

```
Start at: 2019-02-05 07:55:39
End at: 2019-02-05 07:56:09
Local clock offset: 2.981 ms
Remote clock offset: -8.315 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 25.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.938 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 25.877 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 25.862 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

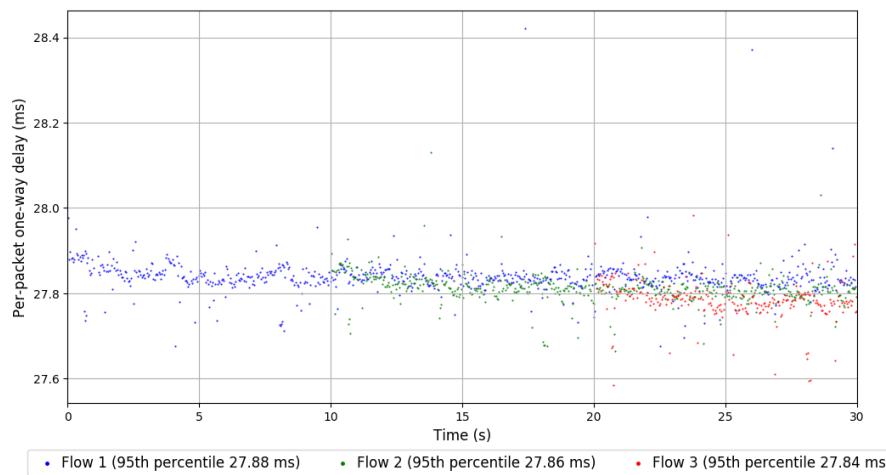
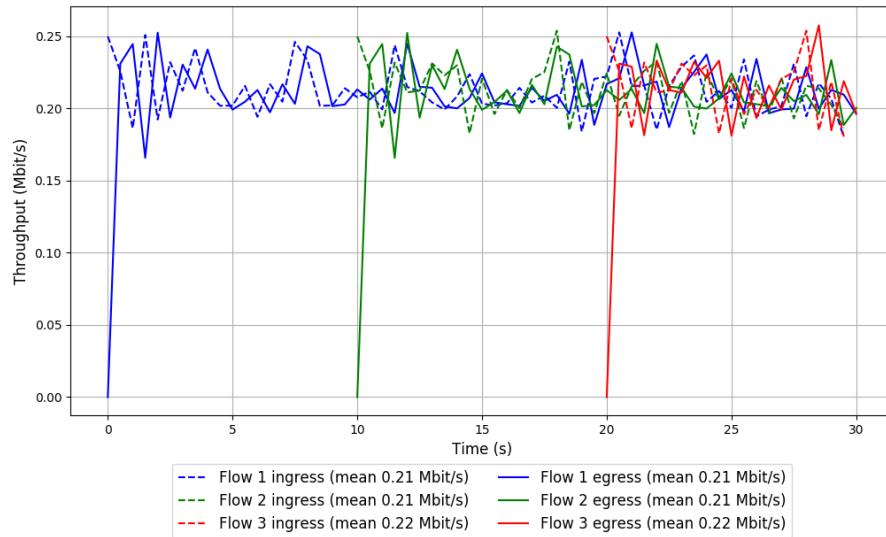


Run 3: Statistics of SCReAM

```
Start at: 2019-02-05 08:21:33
End at: 2019-02-05 08:22:03
Local clock offset: 0.417 ms
Remote clock offset: -5.81 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 27.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.883 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.857 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.843 ms
Loss rate: 0.00%
```

### Run 3: Report of SCReAM — Data Link

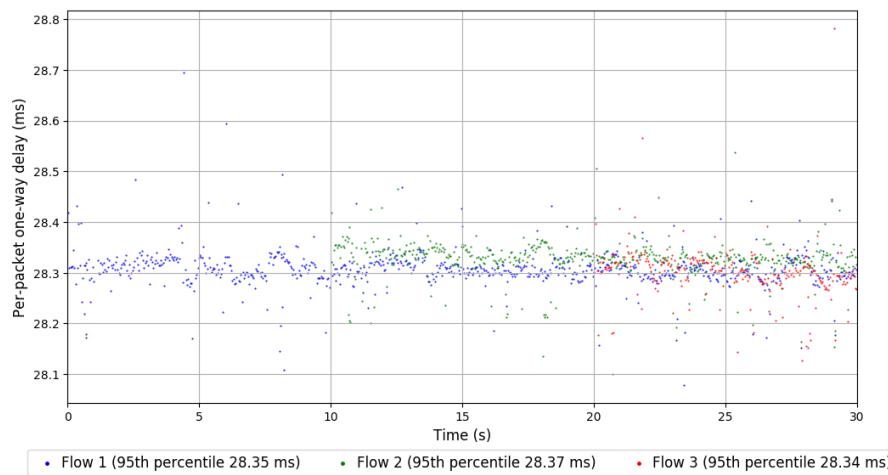
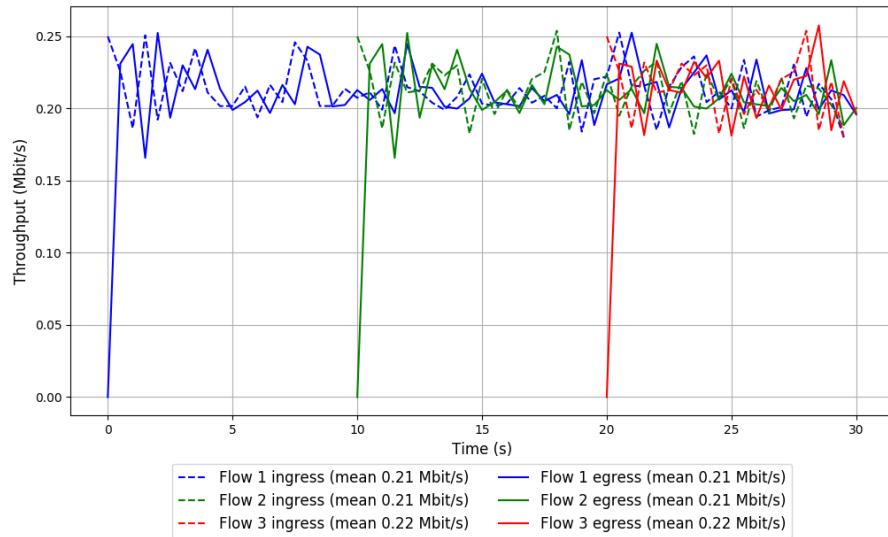


Run 4: Statistics of SCReAM

```
Start at: 2019-02-05 08:46:52
End at: 2019-02-05 08:47:22
Local clock offset: -0.534 ms
Remote clock offset: -4.561 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 28.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.351 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 28.368 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.345 ms
Loss rate: 0.00%
```

## Run 4: Report of SCReAM — Data Link

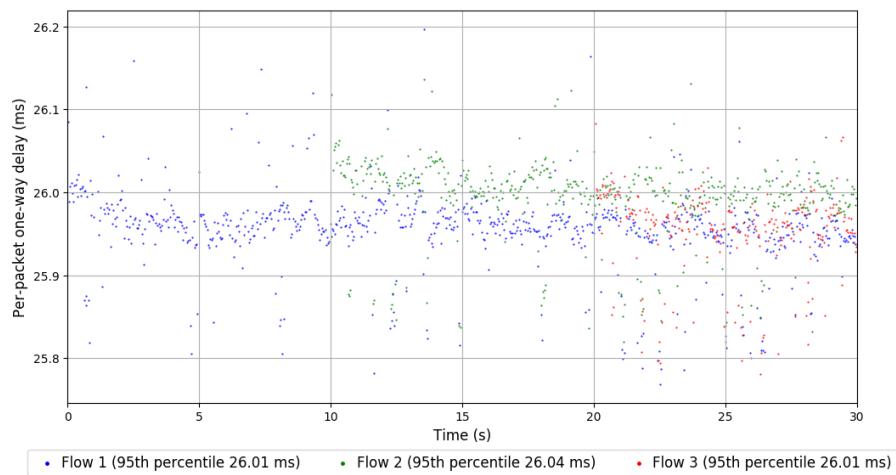
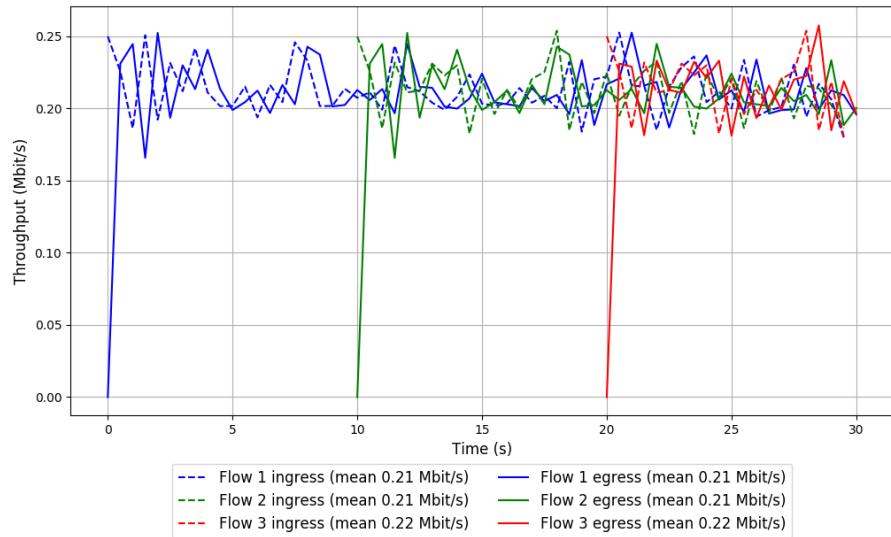


Run 5: Statistics of SCReAM

```
Start at: 2019-02-05 09:12:14
End at: 2019-02-05 09:12:44
Local clock offset: -0.827 ms
Remote clock offset: -6.726 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 26.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 26.008 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 26.043 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 26.008 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

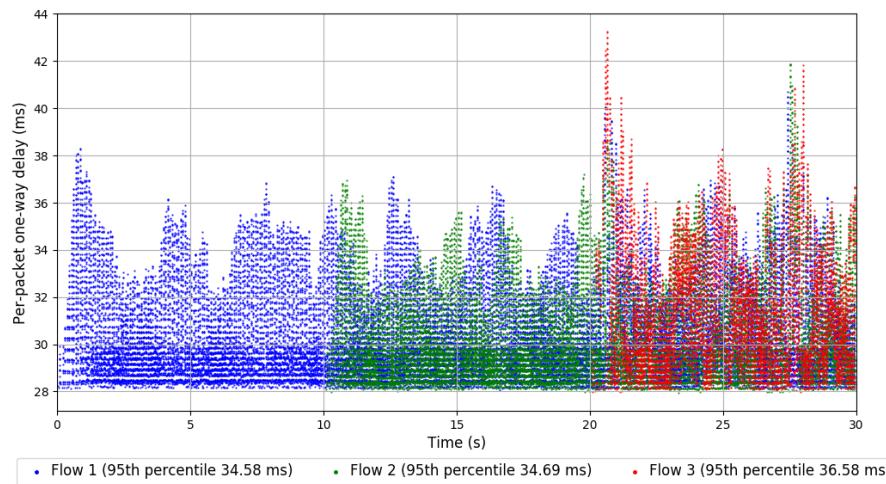
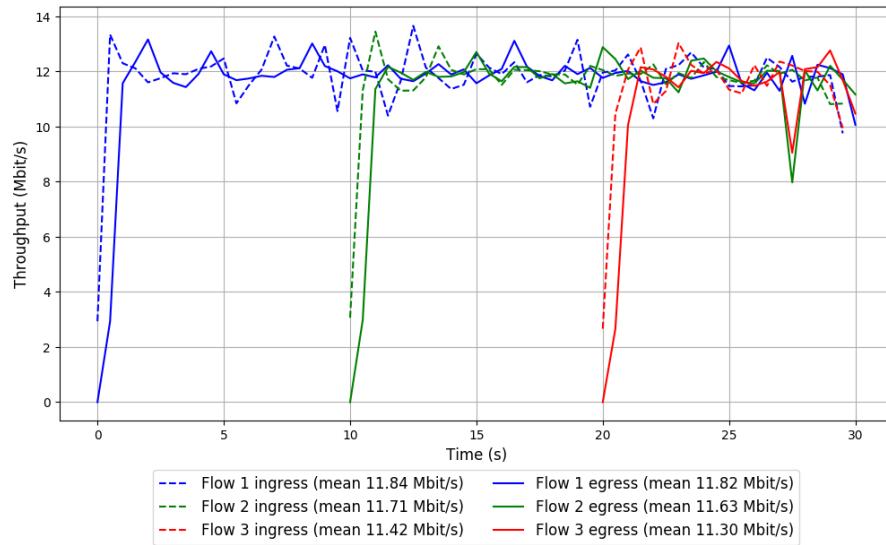


Run 1: Statistics of Sprout

```
Start at: 2019-02-05 07:43:26
End at: 2019-02-05 07:43:56
Local clock offset: 6.67 ms
Remote clock offset: -6.408 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.29 Mbit/s
95th percentile per-packet one-way delay: 34.975 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 34.582 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 34.692 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 36.584 ms
Loss rate: 0.95%
```

Run 1: Report of Sprout — Data Link

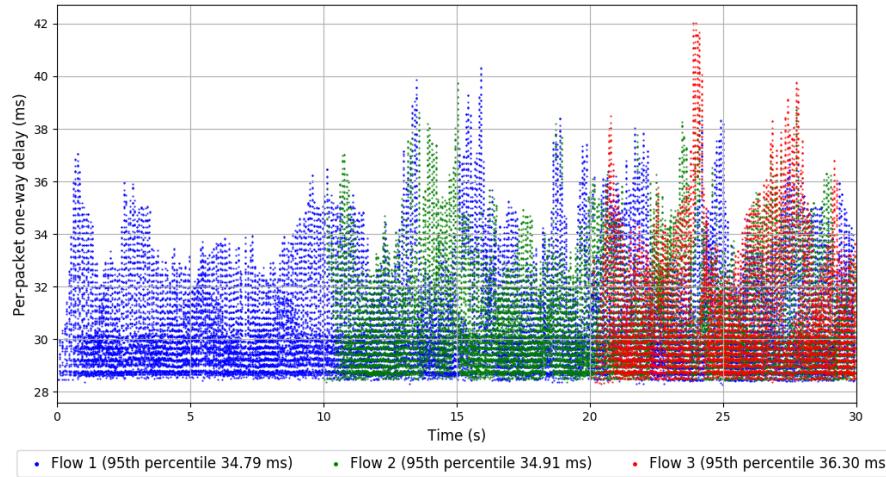
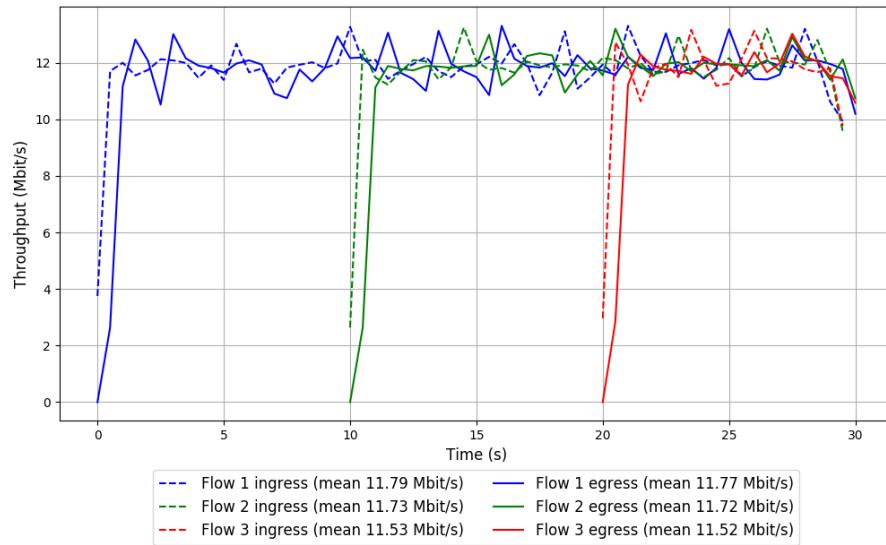


Run 2: Statistics of Sprout

```
Start at: 2019-02-05 08:09:05
End at: 2019-02-05 08:09:35
Local clock offset: 1.057 ms
Remote clock offset: -5.277 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.36 Mbit/s
95th percentile per-packet one-way delay: 35.034 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 34.790 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 34.915 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 36.301 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

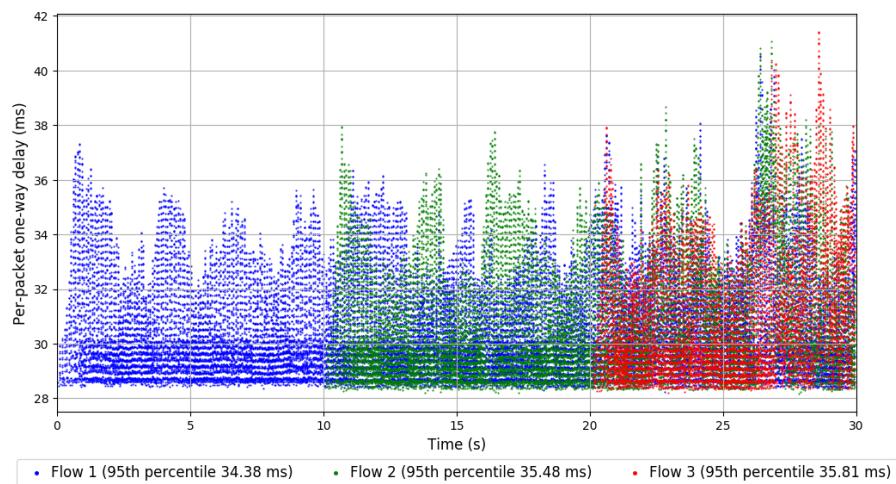
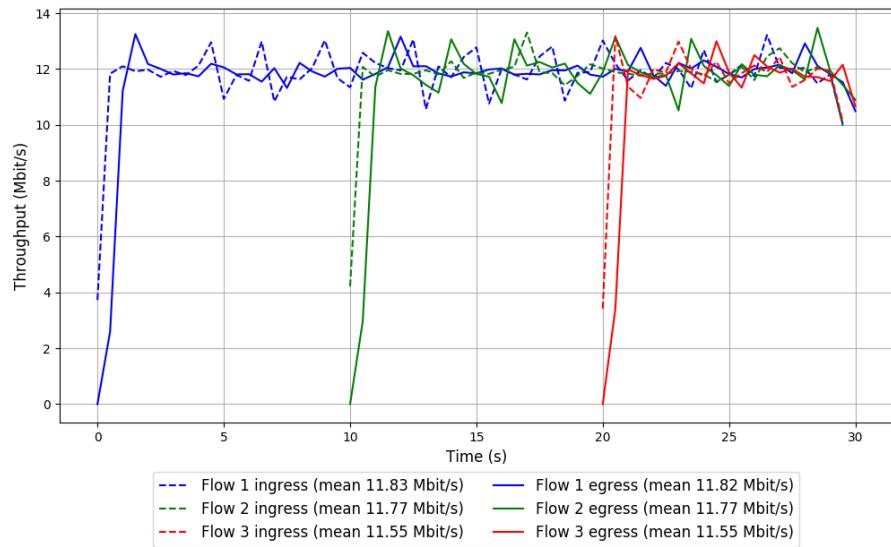


Run 3: Statistics of Sprout

```
Start at: 2019-02-05 08:34:42
End at: 2019-02-05 08:35:12
Local clock offset: -0.014 ms
Remote clock offset: -4.774 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 34.979 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 34.384 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 35.479 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 35.815 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

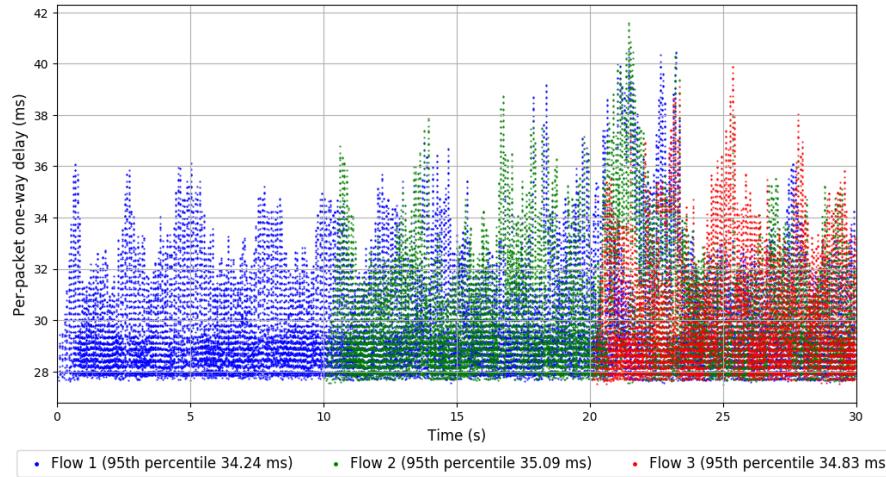
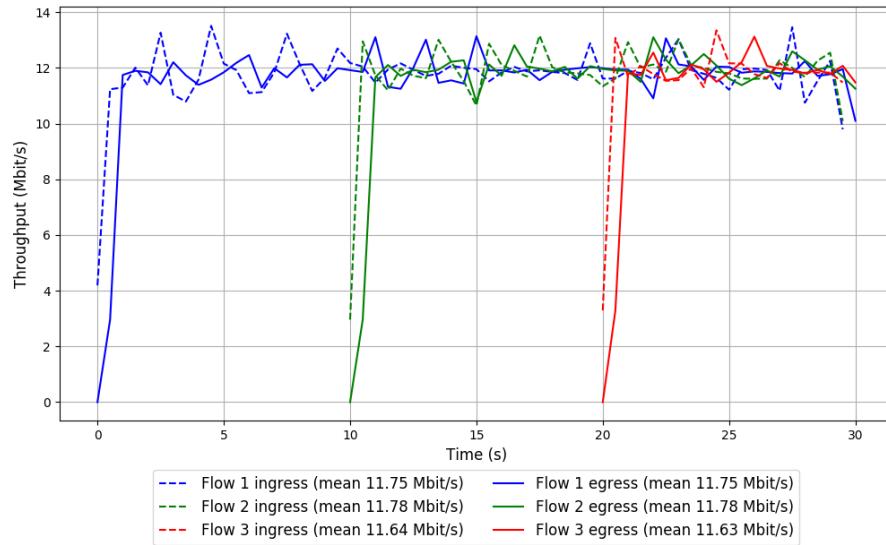


Run 4: Statistics of Sprout

```
Start at: 2019-02-05 09:00:01
End at: 2019-02-05 09:00:31
Local clock offset: -0.475 ms
Remote clock offset: -4.981 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.43 Mbit/s
95th percentile per-packet one-way delay: 34.666 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 34.239 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 35.095 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 34.834 ms
Loss rate: 0.01%
```

Run 4: Report of Sprout — Data Link

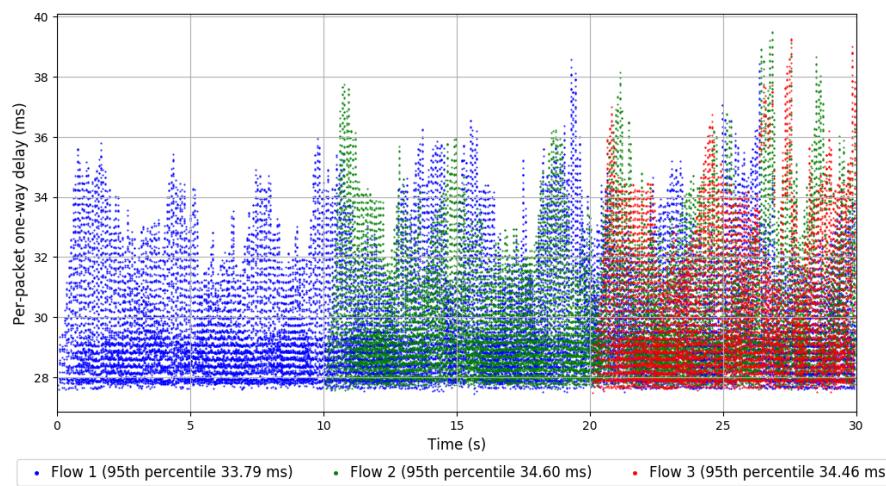
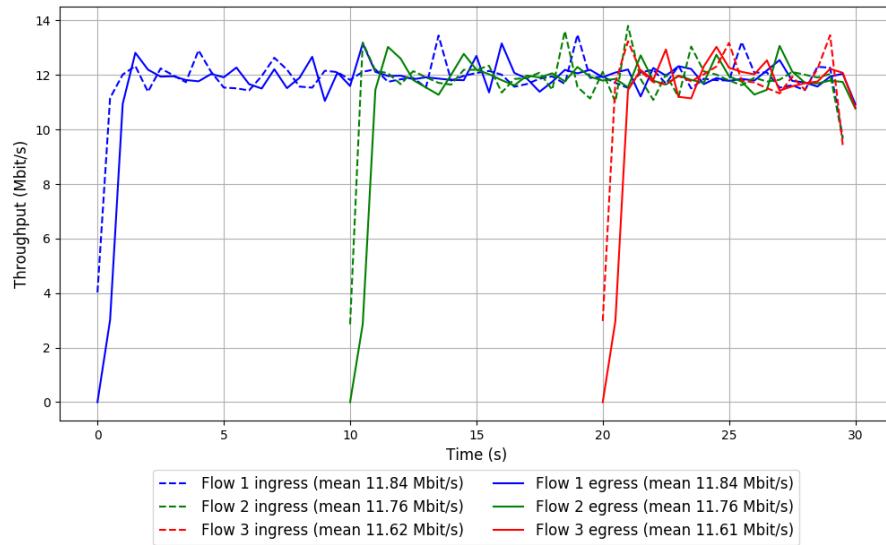


Run 5: Statistics of Sprout

```
Start at: 2019-02-05 09:25:21
End at: 2019-02-05 09:25:51
Local clock offset: -0.74 ms
Remote clock offset: -4.934 ms

# Below is generated by plot.py at 2019-02-05 09:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 34.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.84 Mbit/s
95th percentile per-packet one-way delay: 33.792 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 34.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 34.457 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

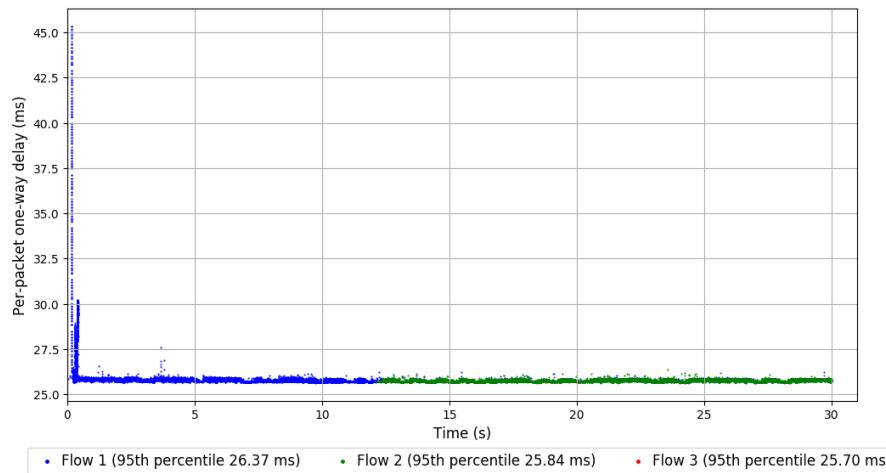
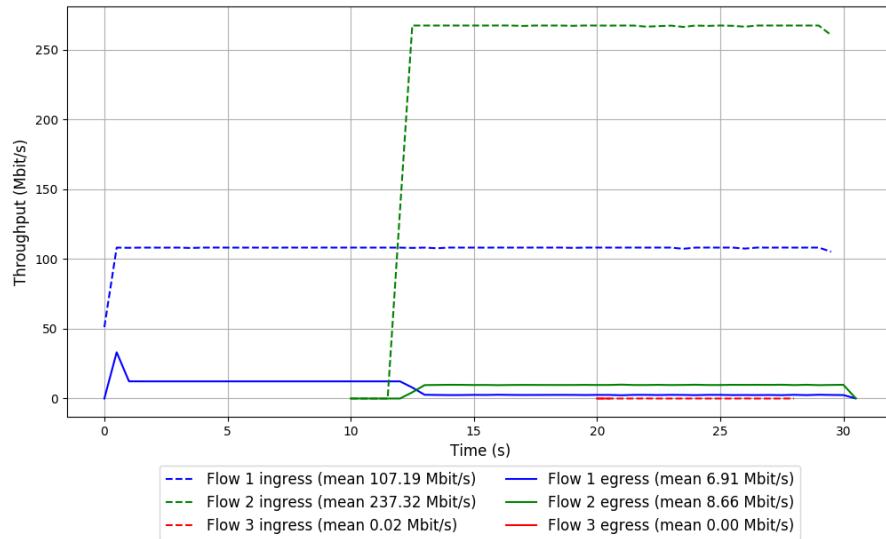


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-05 07:37:12
End at: 2019-02-05 07:37:42
Local clock offset: 6.653 ms
Remote clock offset: -9.096 ms

# Below is generated by plot.py at 2019-02-05 09:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 25.915 ms
Loss rate: 95.22%
-- Flow 1:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 26.366 ms
Loss rate: 93.56%
-- Flow 2:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 25.837 ms
Loss rate: 96.35%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 25.695 ms
Loss rate: 99.16%
```

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

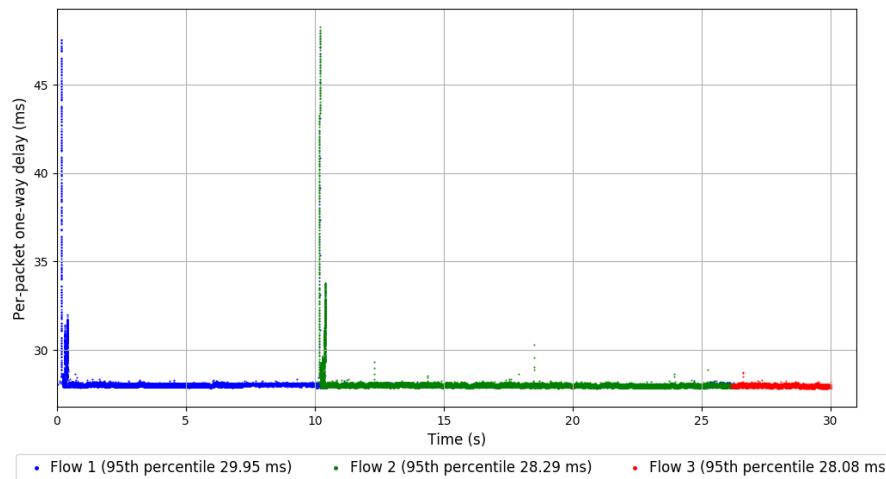
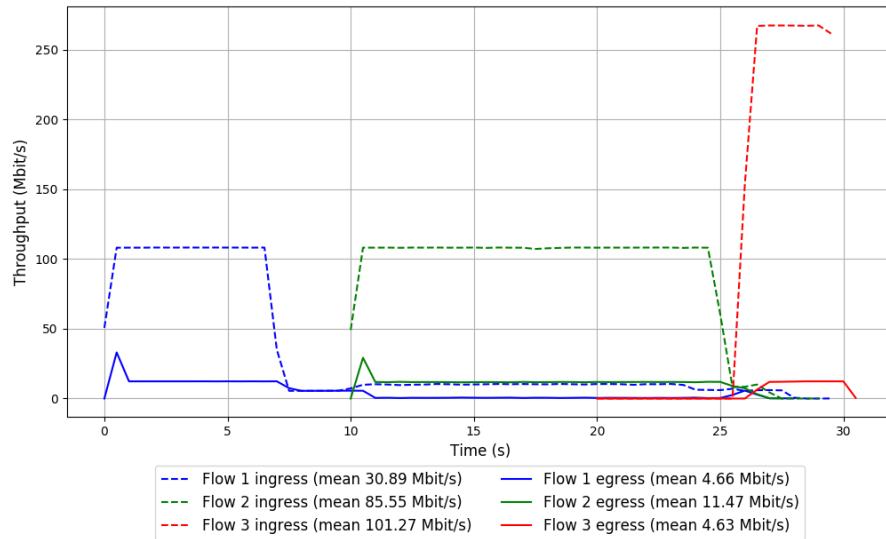


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-05 08:02:56
End at: 2019-02-05 08:03:26
Local clock offset: 1.699 ms
Remote clock offset: -6.015 ms

# Below is generated by plot.py at 2019-02-05 09:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 28.858 ms
Loss rate: 89.58%
-- Flow 1:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 29.949 ms
Loss rate: 85.95%
-- Flow 2:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 28.288 ms
Loss rate: 88.04%
-- Flow 3:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 28.080 ms
Loss rate: 95.43%
```

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

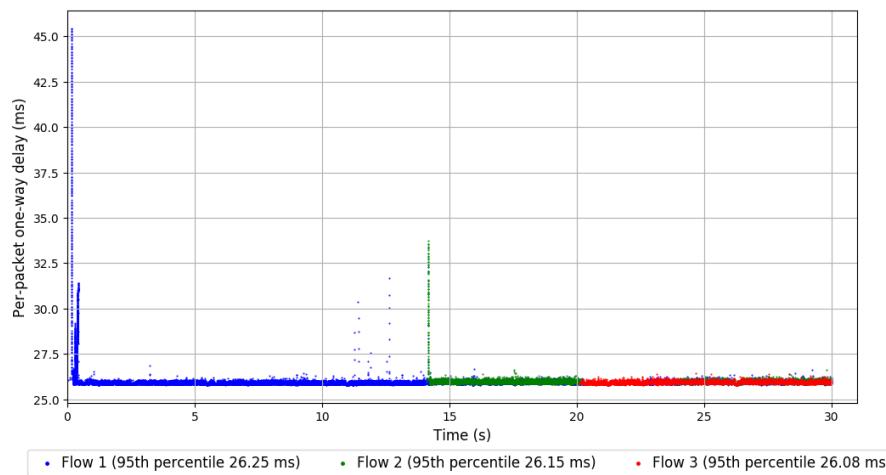
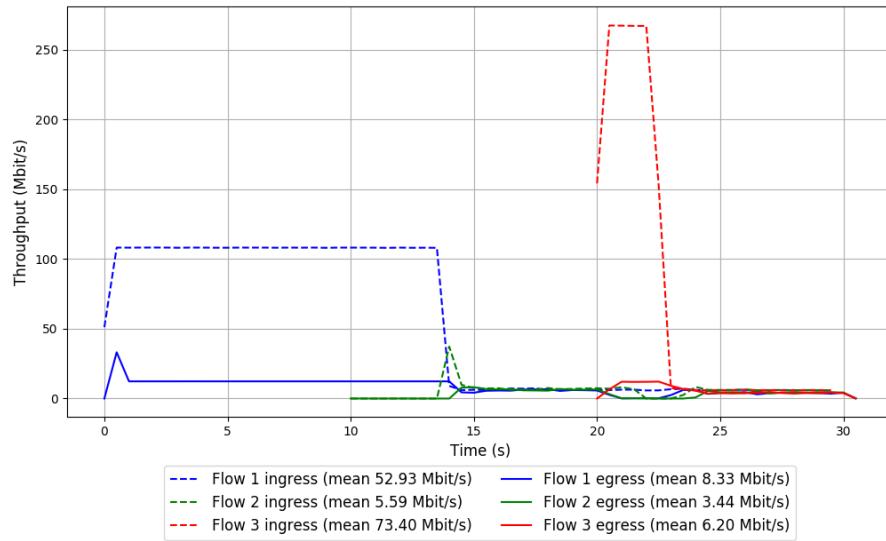


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-05 08:28:39
End at: 2019-02-05 08:29:09
Local clock offset: 0.191 ms
Remote clock offset: -7.479 ms

# Below is generated by plot.py at 2019-02-05 09:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 26.140 ms
Loss rate: 84.35%
-- Flow 1:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 26.245 ms
Loss rate: 84.26%
-- Flow 2:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 26.151 ms
Loss rate: 38.54%
-- Flow 3:
Average throughput: 6.20 Mbit/s
95th percentile per-packet one-way delay: 26.080 ms
Loss rate: 91.56%
```

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

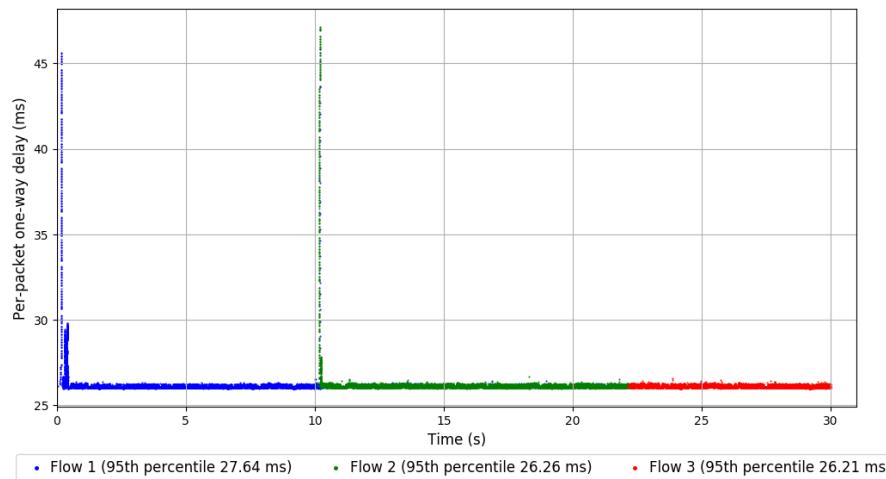
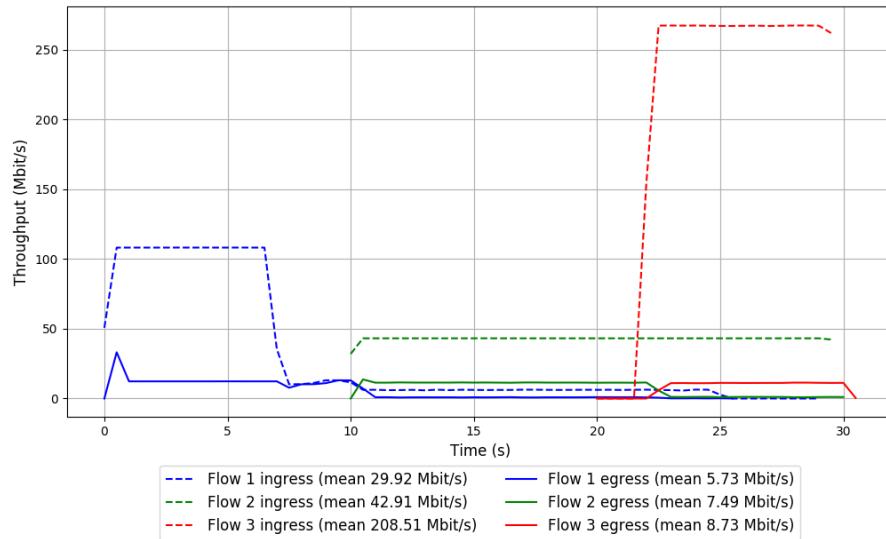


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-05 08:53:56
End at: 2019-02-05 08:54:27
Local clock offset: -0.394 ms
Remote clock offset: -6.63 ms

# Below is generated by plot.py at 2019-02-05 09:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 26.276 ms
Loss rate: 90.02%
-- Flow 1:
Average throughput: 5.73 Mbit/s
95th percentile per-packet one-way delay: 27.637 ms
Loss rate: 83.51%
-- Flow 2:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 26.259 ms
Loss rate: 82.58%
-- Flow 3:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 26.214 ms
Loss rate: 95.81%
```

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

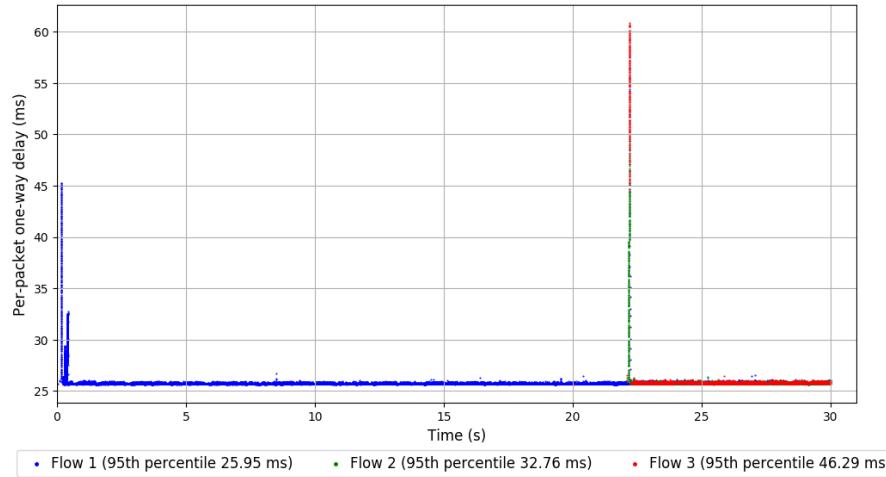
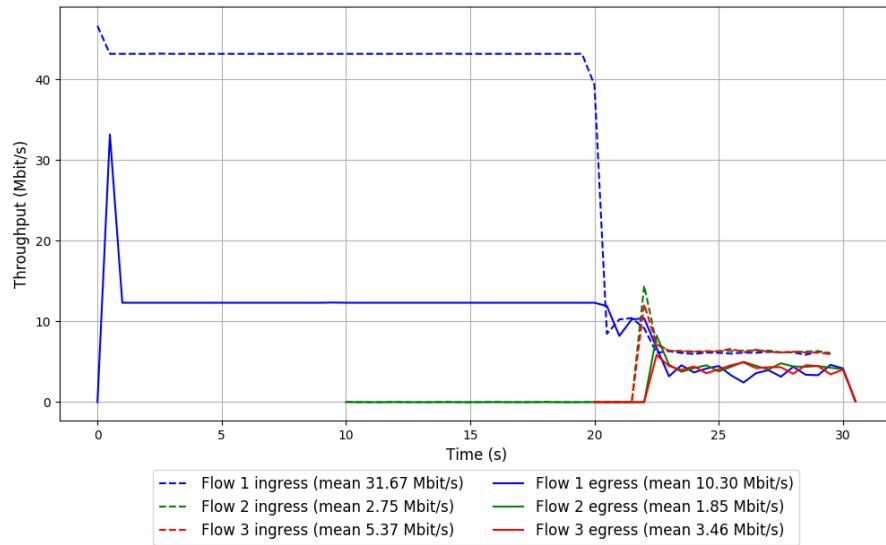


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-05 09:19:19
End at: 2019-02-05 09:19:49
Local clock offset: -0.844 ms
Remote clock offset: -6.942 ms

# Below is generated by plot.py at 2019-02-05 09:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 25.999 ms
Loss rate: 64.07%
-- Flow 1:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: 25.949 ms
Loss rate: 67.47%
-- Flow 2:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 32.764 ms
Loss rate: 33.00%
-- Flow 3:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 46.287 ms
Loss rate: 35.67%
```

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

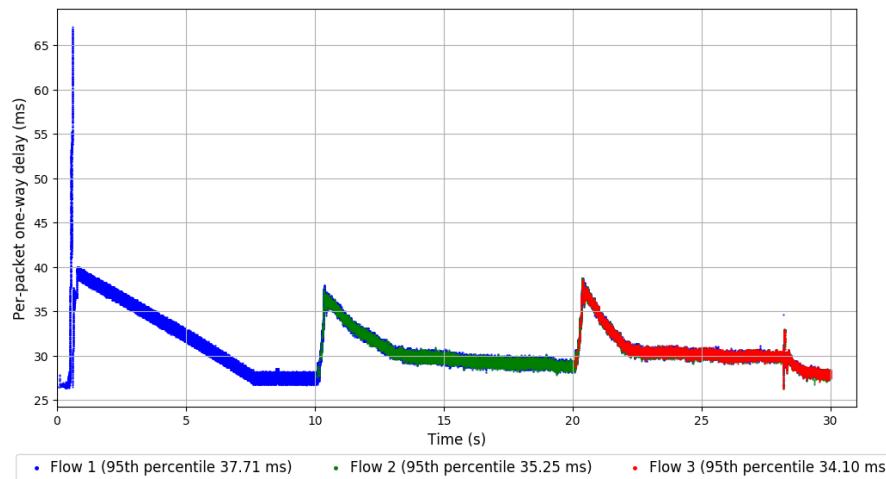
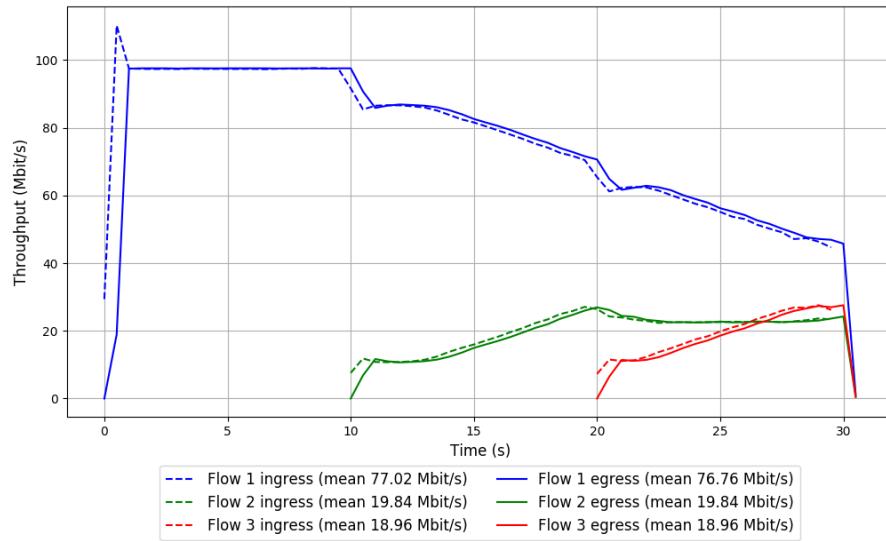


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-05 07:25:17
End at: 2019-02-05 07:25:47
Local clock offset: 6.996 ms
Remote clock offset: -8.698 ms

# Below is generated by plot.py at 2019-02-05 09:40:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 37.263 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 37.706 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 19.84 Mbit/s
95th percentile per-packet one-way delay: 35.250 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 34.098 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

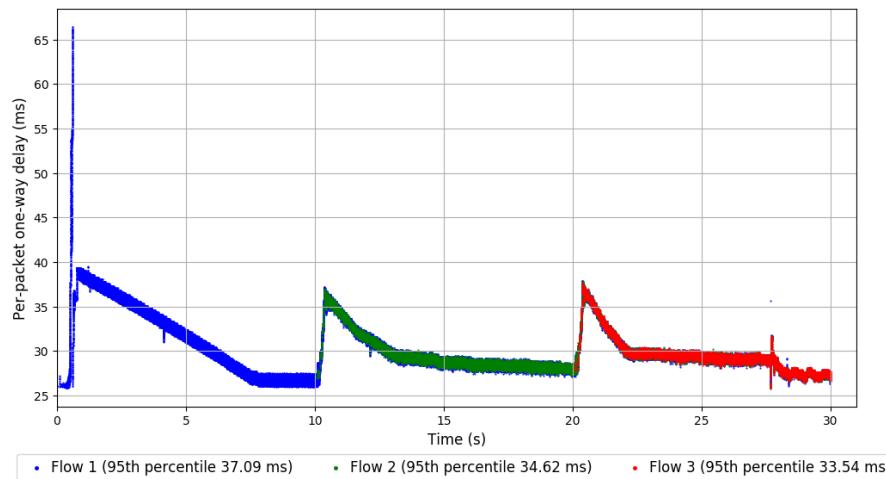
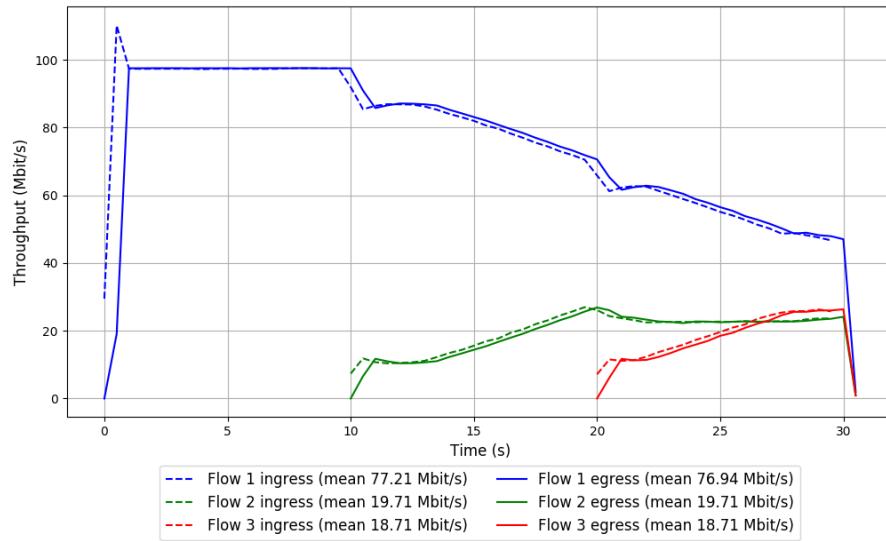


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-05 07:50:47
End at: 2019-02-05 07:51:17
Local clock offset: 4.4 ms
Remote clock offset: -8.28 ms

# Below is generated by plot.py at 2019-02-05 09:40:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 36.770 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 37.090 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 34.615 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.71 Mbit/s
95th percentile per-packet one-way delay: 33.543 ms
Loss rate: 0.00%
```

## Run 2: Report of TCP Vegas — Data Link

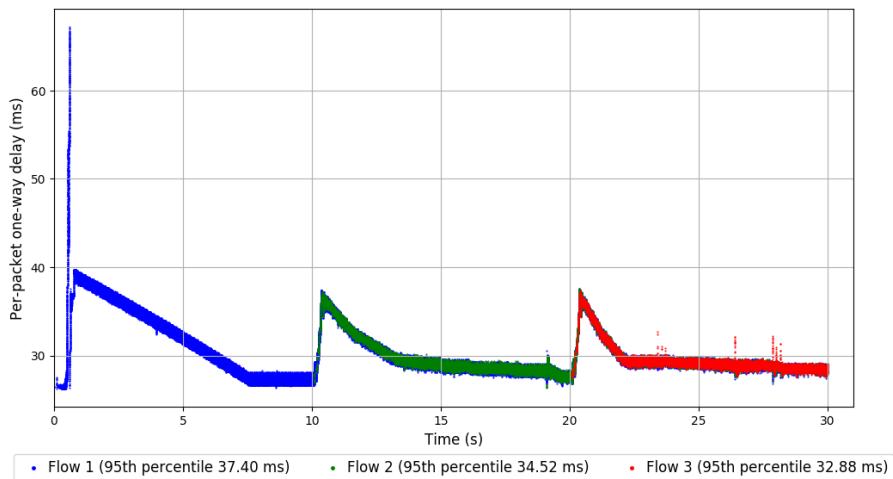
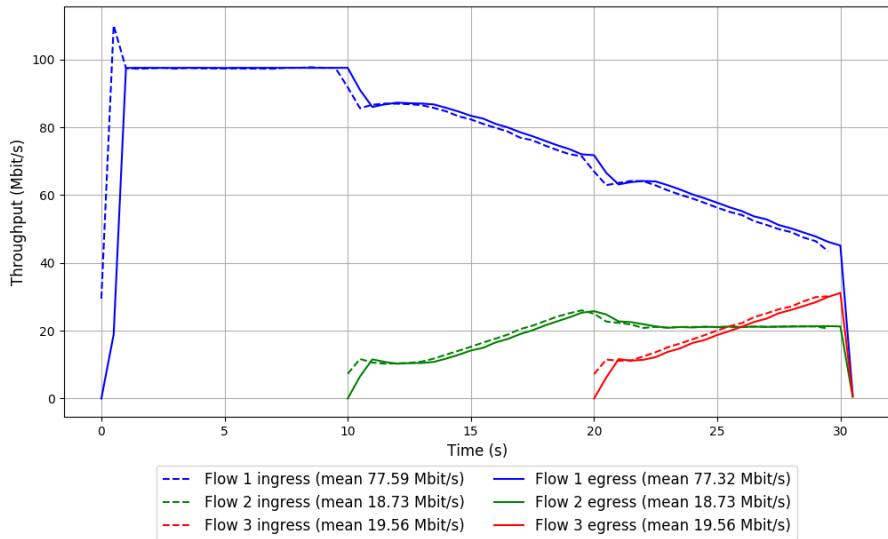


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-05 08:16:26
End at: 2019-02-05 08:16:56
Local clock offset: 0.504 ms
Remote clock offset: -7.277 ms

# Below is generated by plot.py at 2019-02-05 09:40:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 36.945 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 77.32 Mbit/s
95th percentile per-packet one-way delay: 37.400 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 18.73 Mbit/s
95th percentile per-packet one-way delay: 34.521 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.56 Mbit/s
95th percentile per-packet one-way delay: 32.880 ms
Loss rate: 0.00%
```

### Run 3: Report of TCP Vegas — Data Link

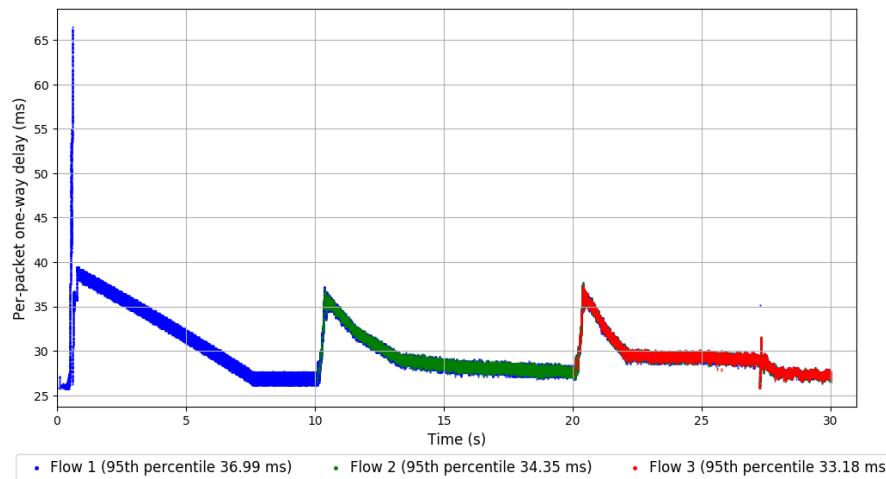
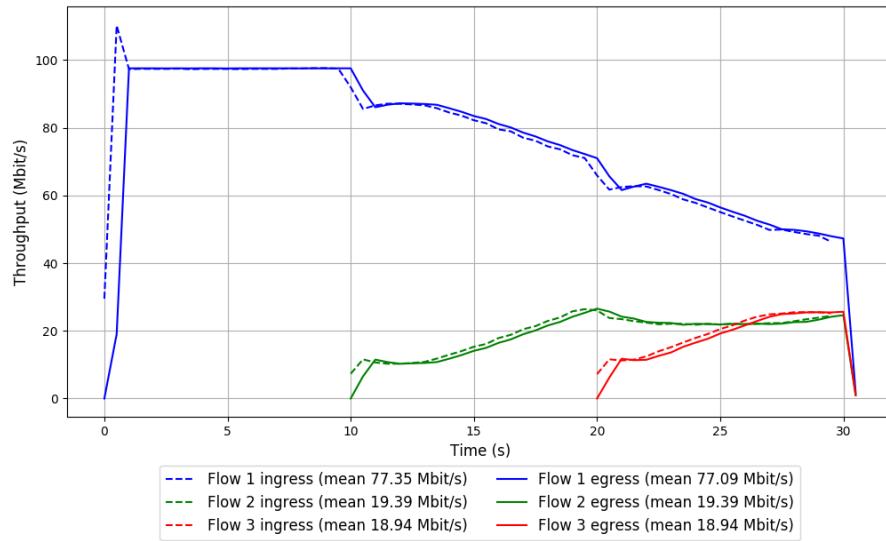


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-05 08:42:00
End at: 2019-02-05 08:42:30
Local clock offset: -0.375 ms
Remote clock offset: -7.046 ms

# Below is generated by plot.py at 2019-02-05 09:40:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 36.659 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 77.09 Mbit/s
95th percentile per-packet one-way delay: 36.993 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 19.39 Mbit/s
95th percentile per-packet one-way delay: 34.350 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 33.178 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Vegas — Data Link

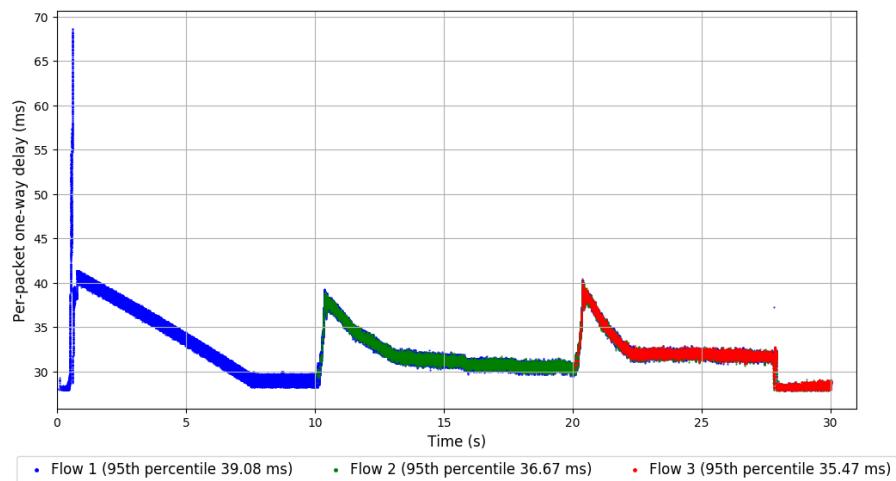
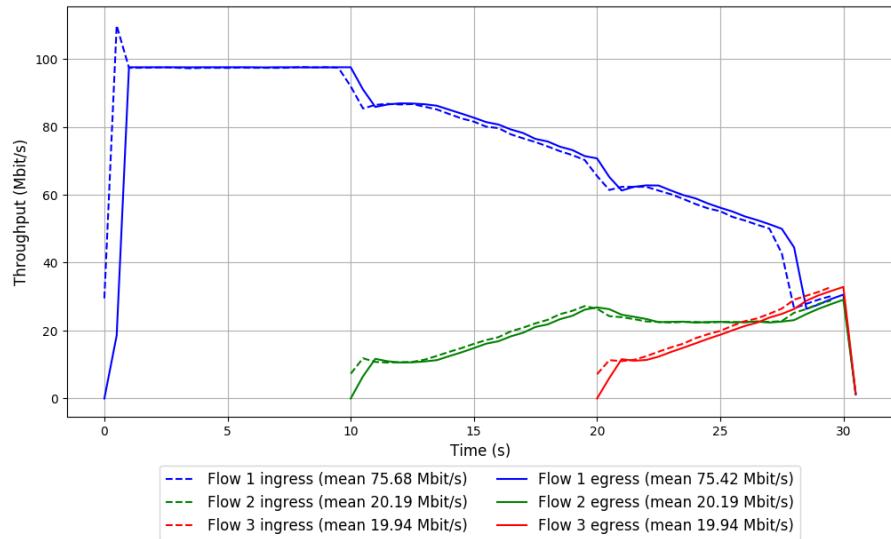


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-05 09:07:19
End at: 2019-02-05 09:07:49
Local clock offset: -0.657 ms
Remote clock offset: -4.674 ms

# Below is generated by plot.py at 2019-02-05 09:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 38.774 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 75.42 Mbit/s
95th percentile per-packet one-way delay: 39.077 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 20.19 Mbit/s
95th percentile per-packet one-way delay: 36.666 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.94 Mbit/s
95th percentile per-packet one-way delay: 35.470 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

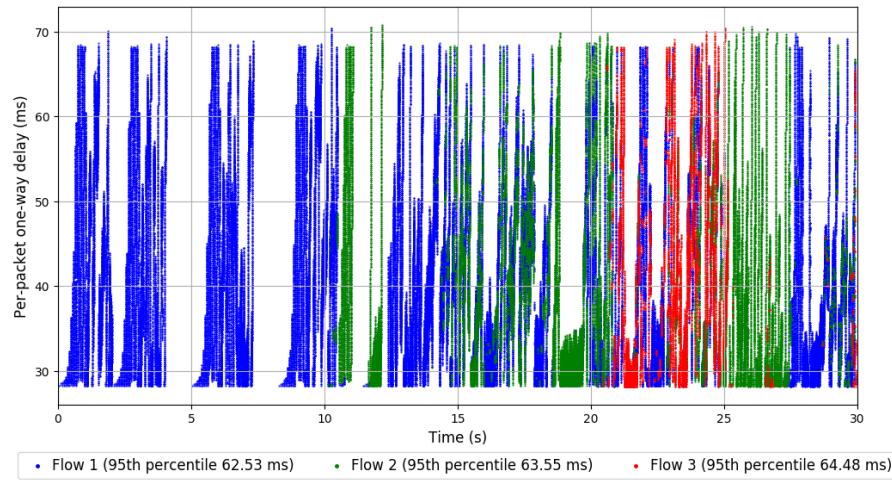
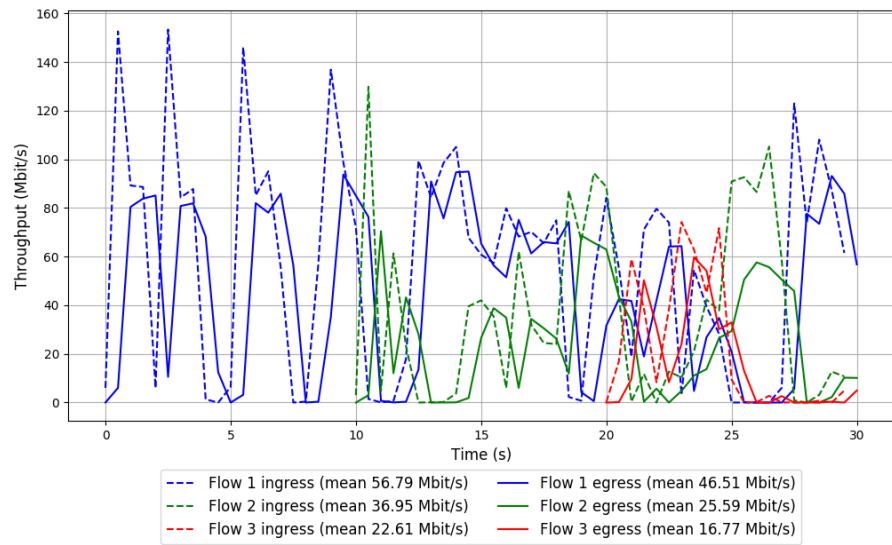


Run 1: Statistics of Verus

```
Start at: 2019-02-05 07:27:42
End at: 2019-02-05 07:28:12
Local clock offset: 6.841 ms
Remote clock offset: -6.808 ms

# Below is generated by plot.py at 2019-02-05 09:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 62.949 ms
Loss rate: 22.26%
-- Flow 1:
Average throughput: 46.51 Mbit/s
95th percentile per-packet one-way delay: 62.534 ms
Loss rate: 18.11%
-- Flow 2:
Average throughput: 25.59 Mbit/s
95th percentile per-packet one-way delay: 63.549 ms
Loss rate: 30.80%
-- Flow 3:
Average throughput: 16.77 Mbit/s
95th percentile per-packet one-way delay: 64.479 ms
Loss rate: 25.83%
```

Run 1: Report of Verus — Data Link

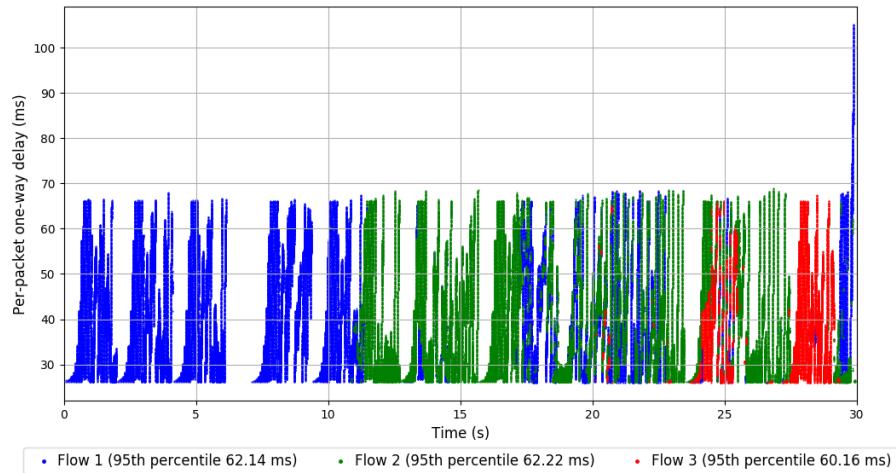
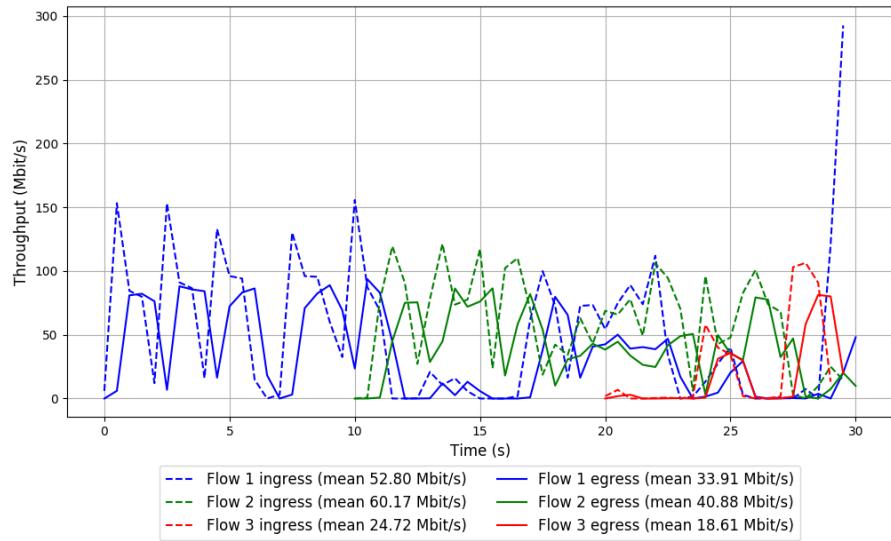


Run 2: Statistics of Verus

```
Start at: 2019-02-05 07:53:12
End at: 2019-02-05 07:53:42
Local clock offset: 3.687 ms
Remote clock offset: -7.886 ms

# Below is generated by plot.py at 2019-02-05 09:40:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.77 Mbit/s
95th percentile per-packet one-way delay: 62.048 ms
Loss rate: 33.46%
-- Flow 1:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 62.138 ms
Loss rate: 35.65%
-- Flow 2:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 62.215 ms
Loss rate: 32.18%
-- Flow 3:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 60.159 ms
Loss rate: 25.23%
```

## Run 2: Report of Verus — Data Link

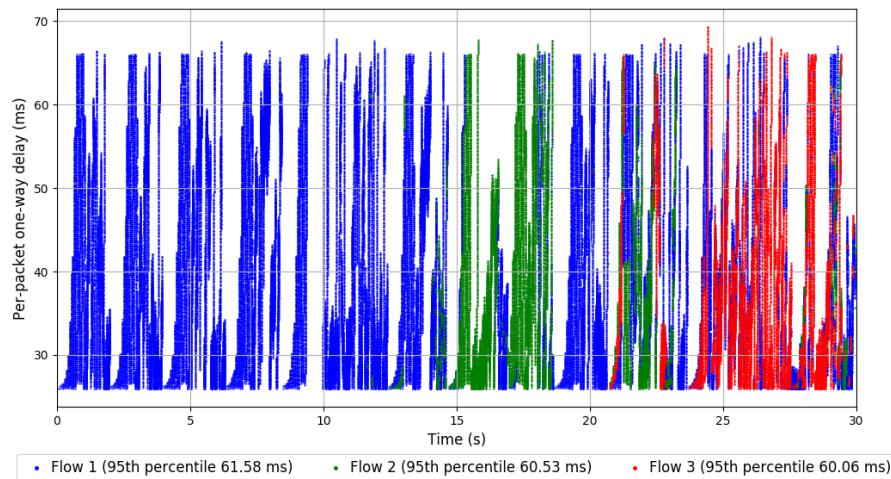
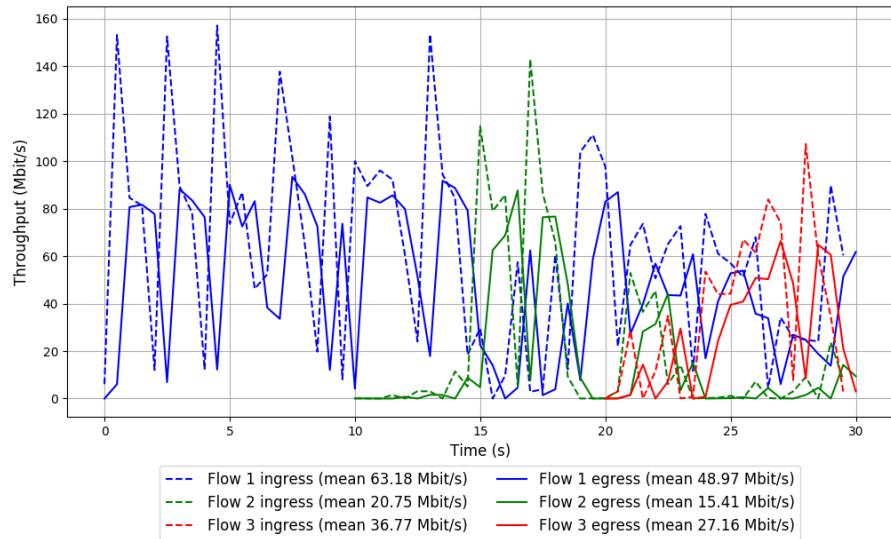


Run 3: Statistics of Verus

```
Start at: 2019-02-05 08:18:58
End at: 2019-02-05 08:19:28
Local clock offset: 0.469 ms
Remote clock offset: -7.537 ms

# Below is generated by plot.py at 2019-02-05 09:40:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.11 Mbit/s
95th percentile per-packet one-way delay: 61.311 ms
Loss rate: 23.45%
-- Flow 1:
Average throughput: 48.97 Mbit/s
95th percentile per-packet one-way delay: 61.576 ms
Loss rate: 22.46%
-- Flow 2:
Average throughput: 15.41 Mbit/s
95th percentile per-packet one-way delay: 60.535 ms
Loss rate: 25.66%
-- Flow 3:
Average throughput: 27.16 Mbit/s
95th percentile per-packet one-way delay: 60.062 ms
Loss rate: 26.16%
```

### Run 3: Report of Verus — Data Link

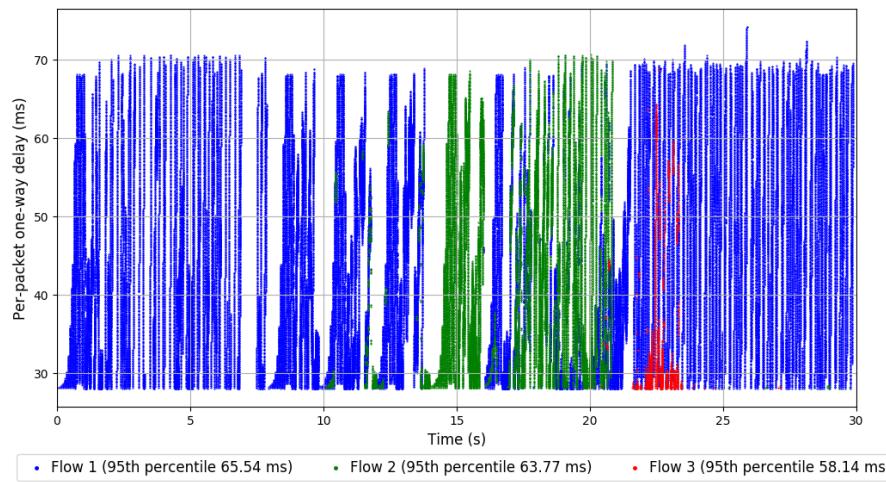
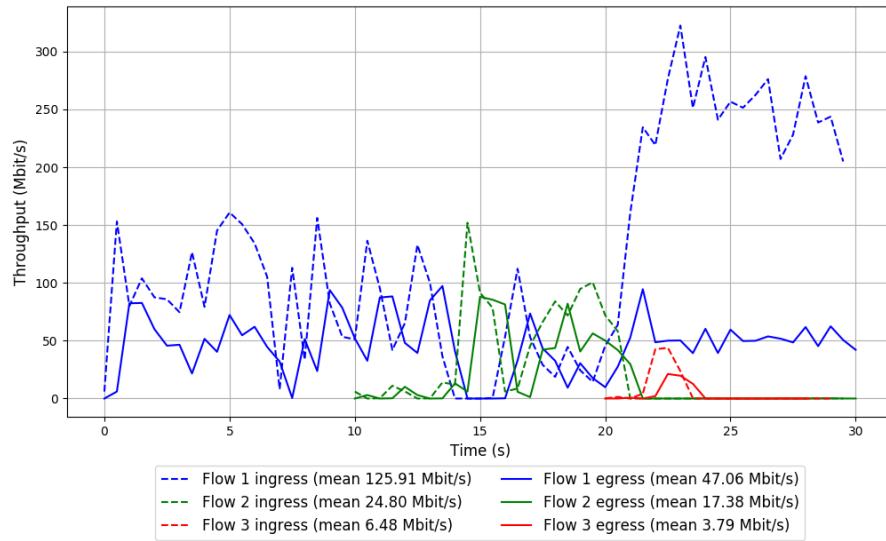


Run 4: Statistics of Verus

```
Start at: 2019-02-05 08:44:25
End at: 2019-02-05 08:44:55
Local clock offset: -0.491 ms
Remote clock offset: -4.607 ms

# Below is generated by plot.py at 2019-02-05 09:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.48 Mbit/s
95th percentile per-packet one-way delay: 65.191 ms
Loss rate: 58.74%
-- Flow 1:
Average throughput: 47.06 Mbit/s
95th percentile per-packet one-way delay: 65.536 ms
Loss rate: 62.58%
-- Flow 2:
Average throughput: 17.38 Mbit/s
95th percentile per-packet one-way delay: 63.770 ms
Loss rate: 30.15%
-- Flow 3:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 58.143 ms
Loss rate: 51.37%
```

Run 4: Report of Verus — Data Link

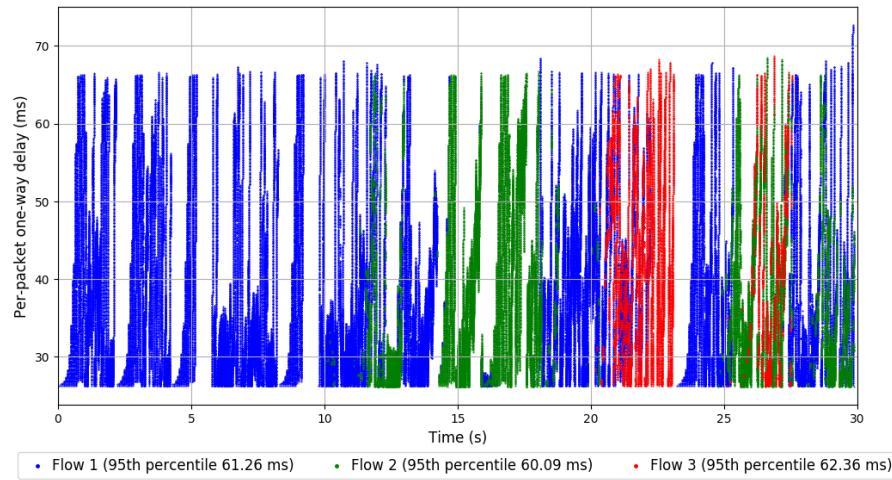
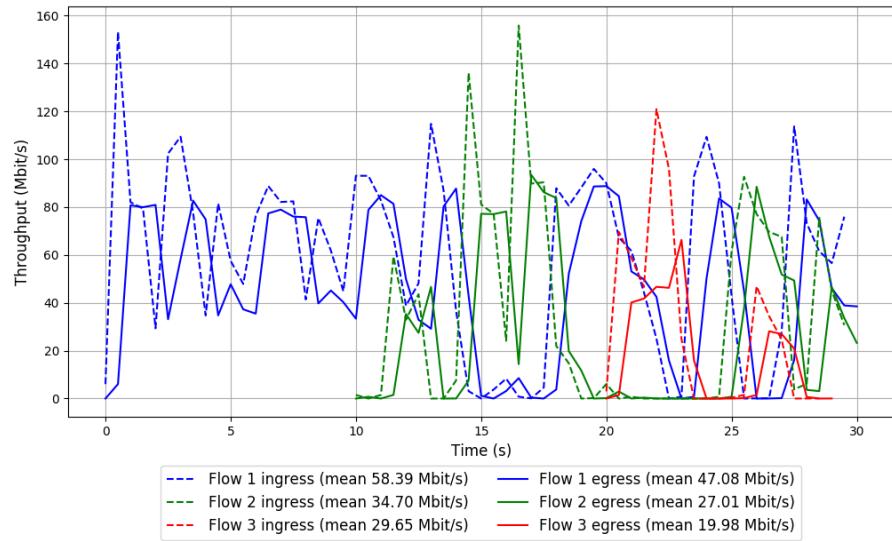


Run 5: Statistics of Verus

```
Start at: 2019-02-05 09:09:45
End at: 2019-02-05 09:10:15
Local clock offset: -0.728 ms
Remote clock offset: -6.331 ms

# Below is generated by plot.py at 2019-02-05 09:41:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.60 Mbit/s
95th percentile per-packet one-way delay: 61.096 ms
Loss rate: 21.71%
-- Flow 1:
Average throughput: 47.08 Mbit/s
95th percentile per-packet one-way delay: 61.260 ms
Loss rate: 19.33%
-- Flow 2:
Average throughput: 27.01 Mbit/s
95th percentile per-packet one-way delay: 60.091 ms
Loss rate: 22.17%
-- Flow 3:
Average throughput: 19.98 Mbit/s
95th percentile per-packet one-way delay: 62.357 ms
Loss rate: 36.19%
```

Run 5: Report of Verus — Data Link

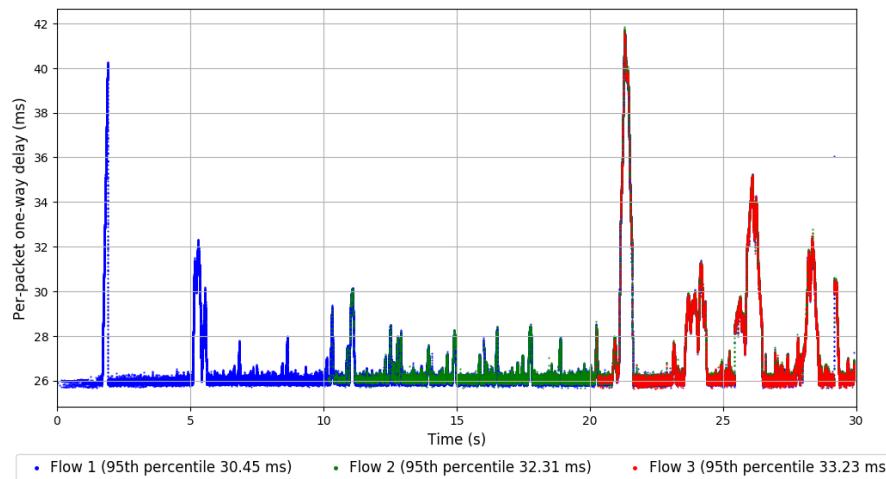
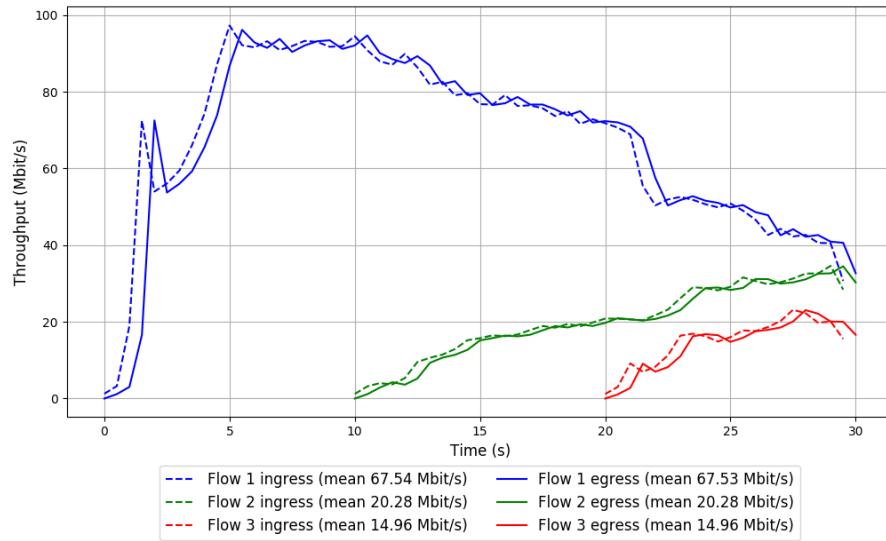


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-05 07:21:35
End at: 2019-02-05 07:22:05
Local clock offset: 7.36 ms
Remote clock offset: -9.2 ms

# Below is generated by plot.py at 2019-02-05 09:41:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.96 Mbit/s
95th percentile per-packet one-way delay: 31.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.53 Mbit/s
95th percentile per-packet one-way delay: 30.454 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.28 Mbit/s
95th percentile per-packet one-way delay: 32.314 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.96 Mbit/s
95th percentile per-packet one-way delay: 33.231 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

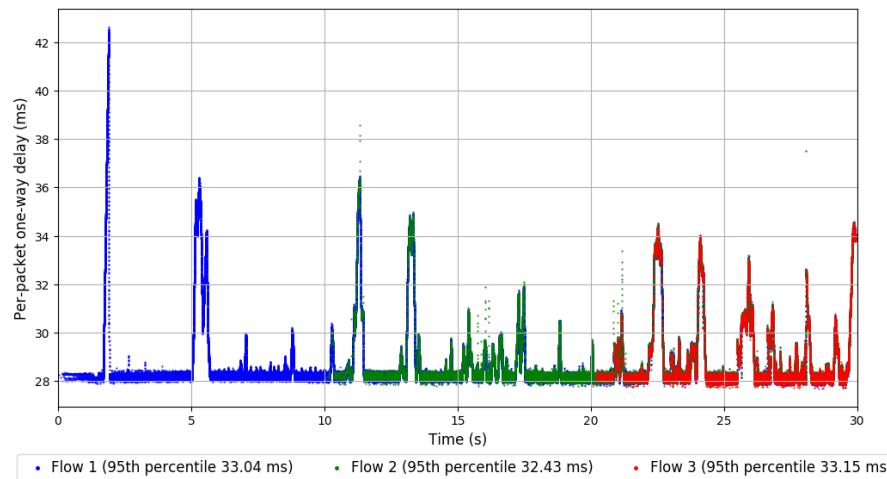
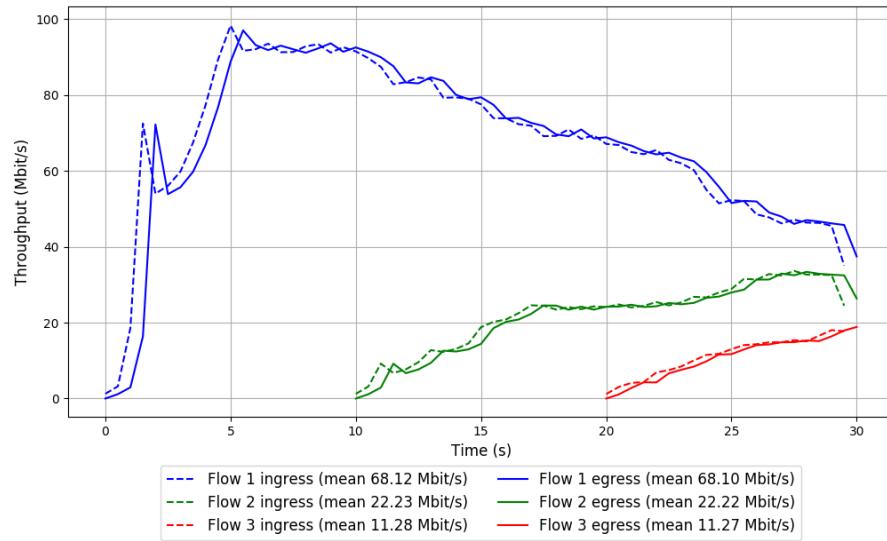


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-05 07:47:05
End at: 2019-02-05 07:47:35
Local clock offset: 6.089 ms
Remote clock offset: -6.097 ms

# Below is generated by plot.py at 2019-02-05 09:41:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 32.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 33.044 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.22 Mbit/s
95th percentile per-packet one-way delay: 32.427 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.27 Mbit/s
95th percentile per-packet one-way delay: 33.154 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

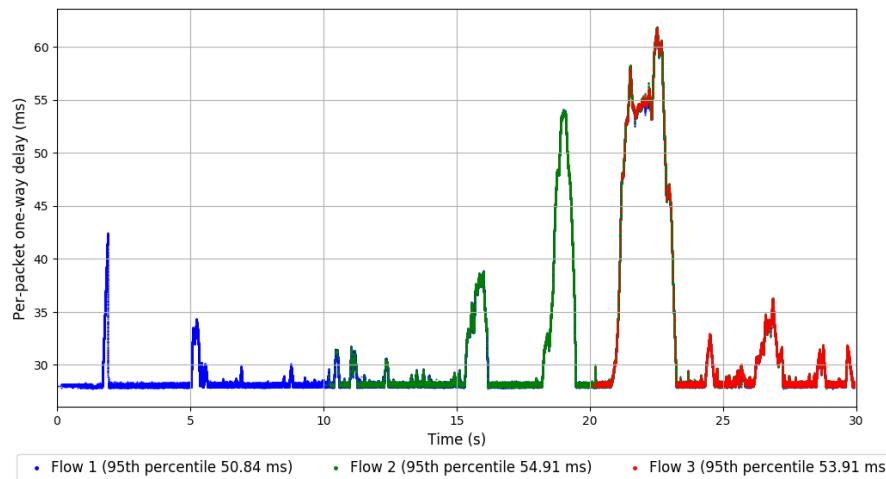
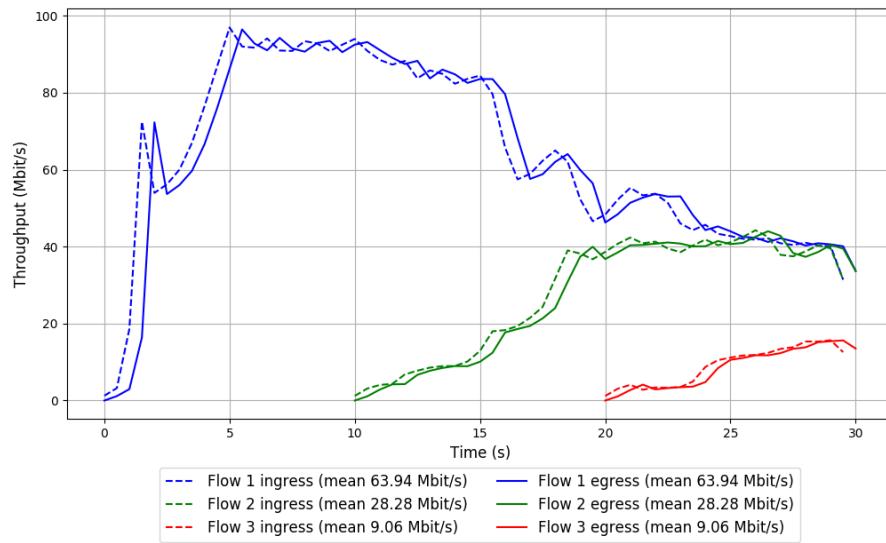


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-05 08:12:42
End at: 2019-02-05 08:13:12
Local clock offset: 0.751 ms
Remote clock offset: -5.689 ms

# Below is generated by plot.py at 2019-02-05 09:41:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.73 Mbit/s
95th percentile per-packet one-way delay: 53.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.94 Mbit/s
95th percentile per-packet one-way delay: 50.835 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.28 Mbit/s
95th percentile per-packet one-way delay: 54.908 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 53.909 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

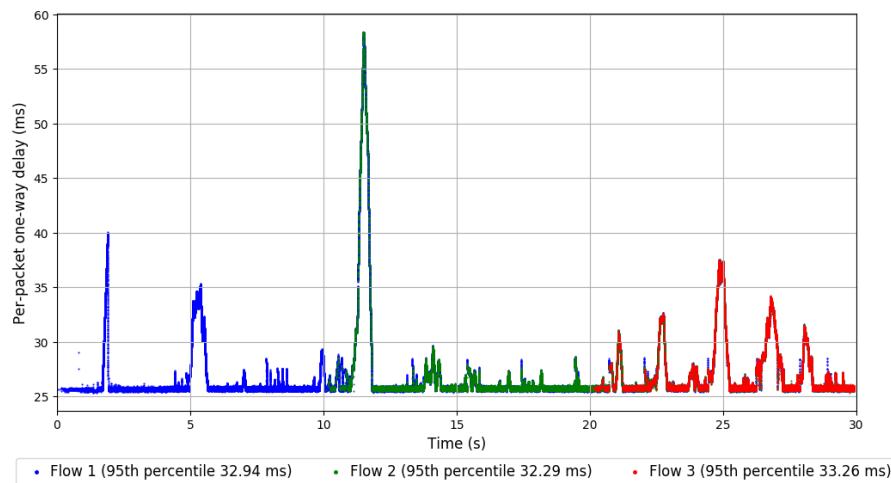
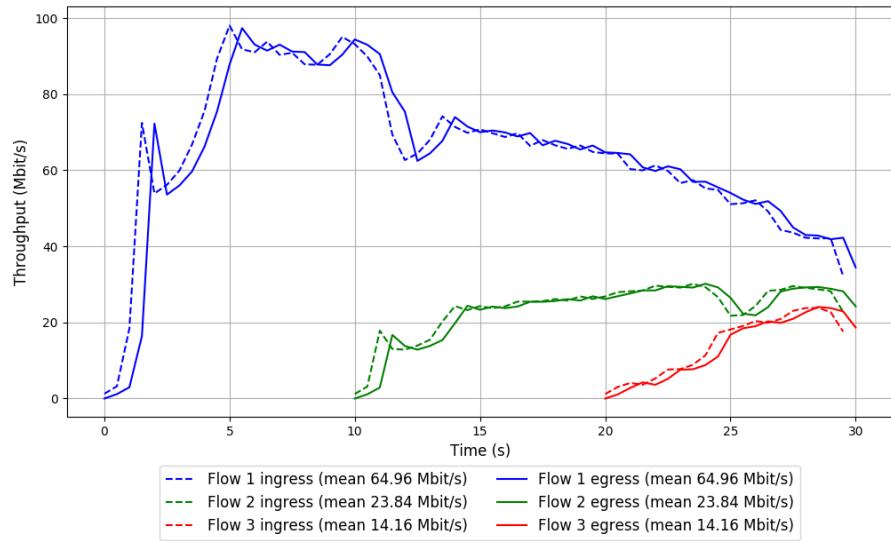


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-05 08:38:19
End at: 2019-02-05 08:38:49
Local clock offset: -0.182 ms
Remote clock offset: -7.393 ms

# Below is generated by plot.py at 2019-02-05 09:41:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.49 Mbit/s
95th percentile per-packet one-way delay: 32.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.96 Mbit/s
95th percentile per-packet one-way delay: 32.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.84 Mbit/s
95th percentile per-packet one-way delay: 32.292 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.16 Mbit/s
95th percentile per-packet one-way delay: 33.256 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

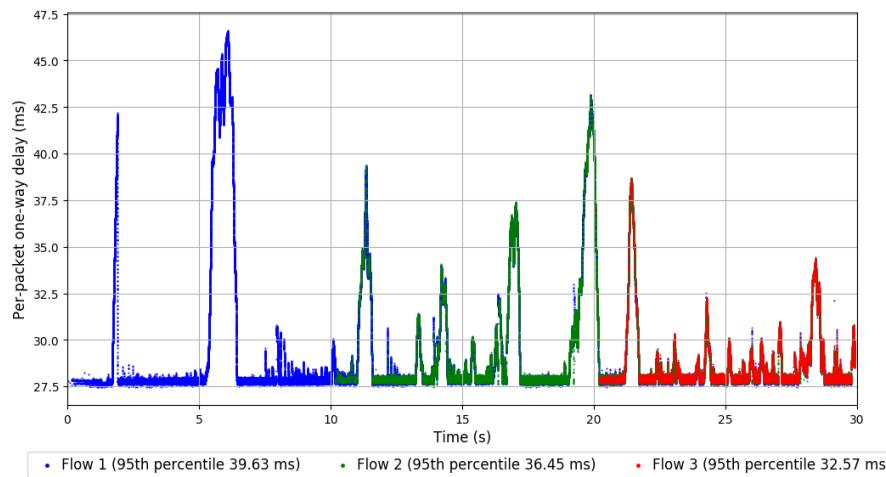
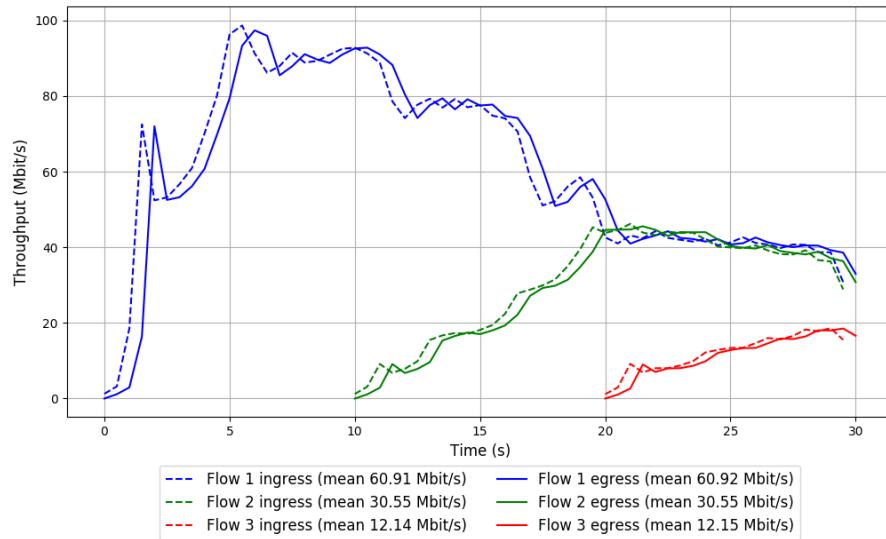


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-05 09:03:37
End at: 2019-02-05 09:04:07
Local clock offset: -0.54 ms
Remote clock offset: -4.984 ms

# Below is generated by plot.py at 2019-02-05 09:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 38.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.92 Mbit/s
95th percentile per-packet one-way delay: 39.630 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 36.452 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 32.572 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

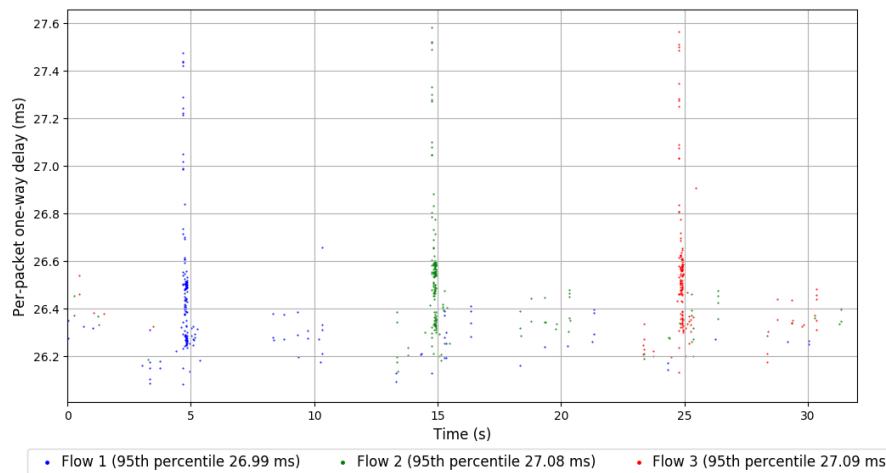
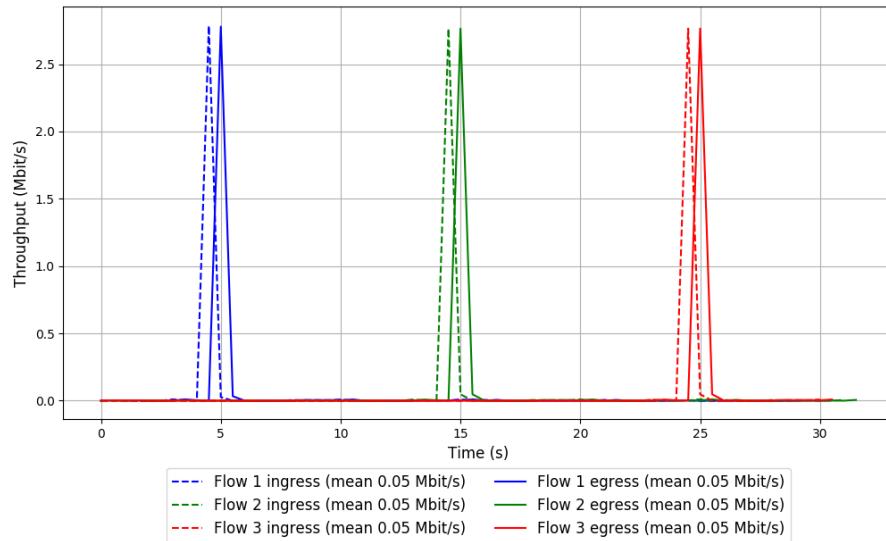


```
Run 1: Statistics of WebRTC media

Start at: 2019-02-05 07:34:54
End at: 2019-02-05 07:35:24
Local clock offset: 6.671 ms
Remote clock offset: -8.545 ms

# Below is generated by plot.py at 2019-02-05 09:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 27.074 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.988 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 27.080 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 27.090 ms
Loss rate: 0.00%
```

### Run 1: Report of WebRTC media — Data Link

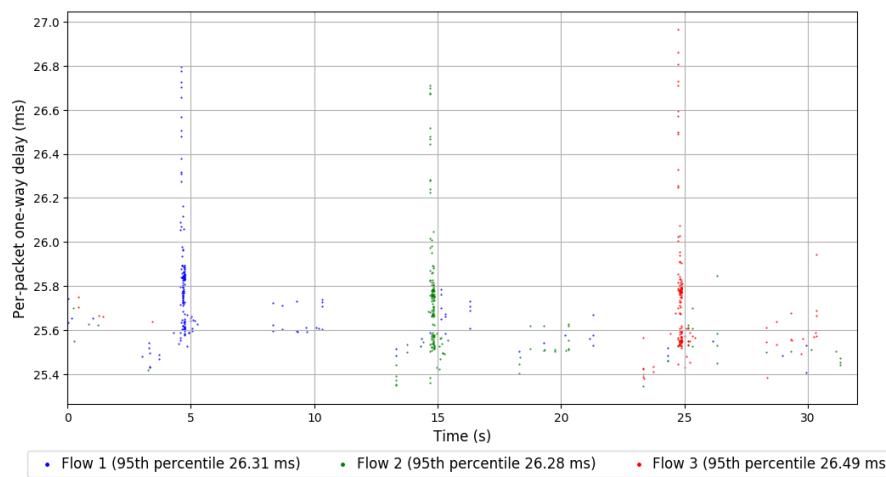
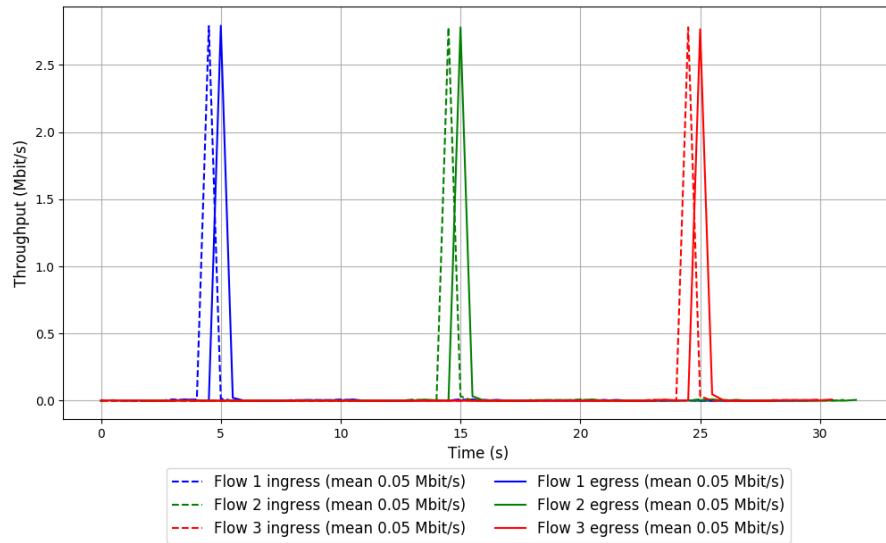


```
Run 2: Statistics of WebRTC media

Start at: 2019-02-05 08:00:36
End at: 2019-02-05 08:01:06
Local clock offset: 2.029 ms
Remote clock offset: -8.432 ms

# Below is generated by plot.py at 2019-02-05 09:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 26.316 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.309 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.279 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 26.493 ms
Loss rate: 0.00%
```

## Run 2: Report of WebRTC media — Data Link

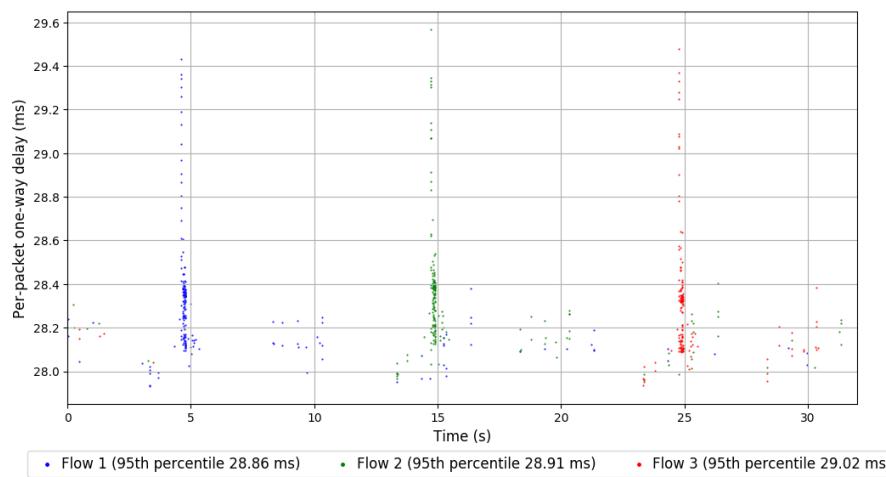
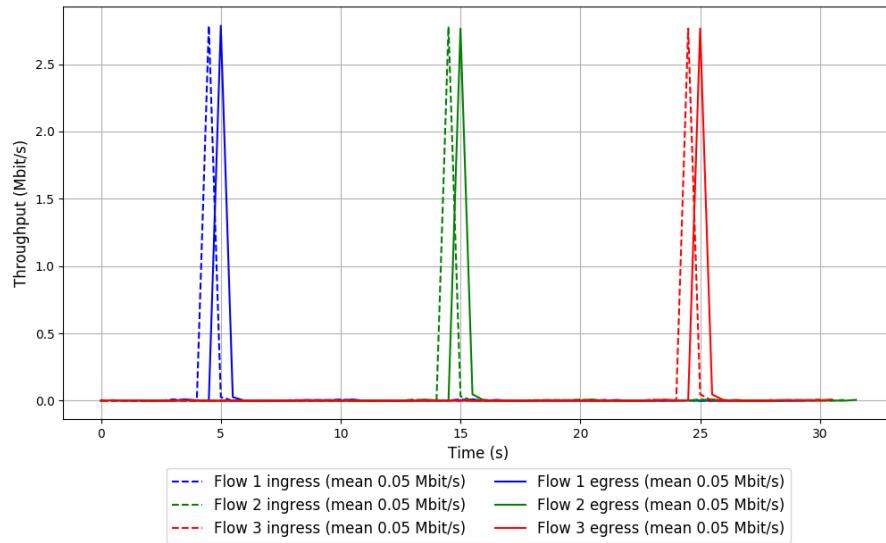


Run 3: Statistics of WebRTC media

```
Start at: 2019-02-05 08:26:21
End at: 2019-02-05 08:26:51
Local clock offset: 0.278 ms
Remote clock offset: -5.288 ms

# Below is generated by plot.py at 2019-02-05 09:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 28.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 28.865 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 28.914 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 29.024 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

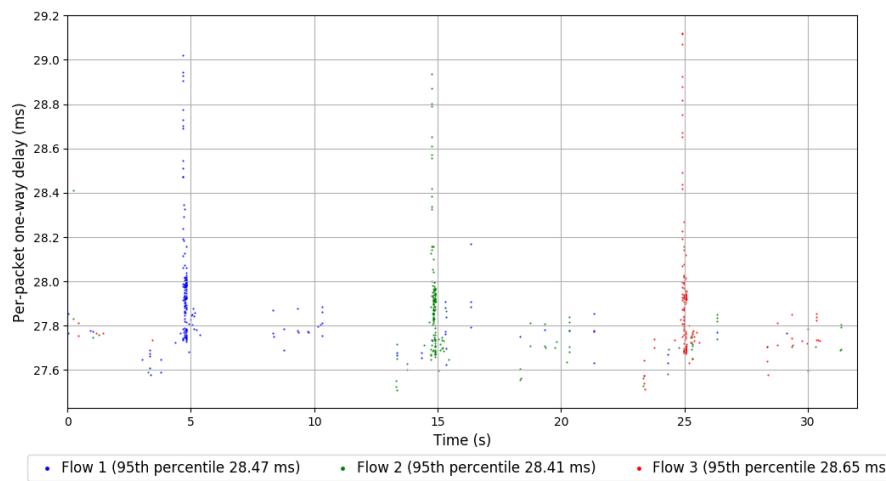
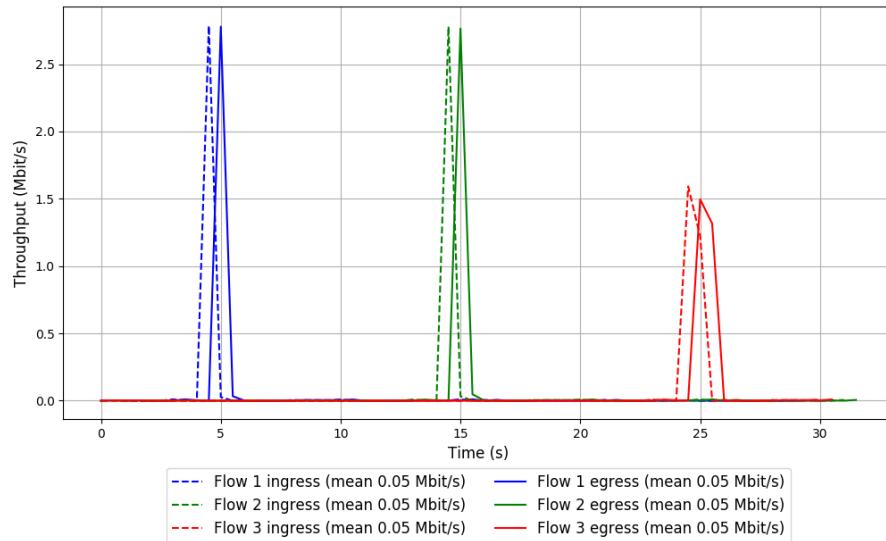


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-05 08:51:38
End at: 2019-02-05 08:52:08
Local clock offset: -0.403 ms
Remote clock offset: -4.972 ms

# Below is generated by plot.py at 2019-02-05 09:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 28.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 28.472 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 28.410 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 28.654 ms
Loss rate: 0.00%
```

#### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-02-05 09:17:01
End at: 2019-02-05 09:17:31
Local clock offset: -0.913 ms
Remote clock offset: -6.326 ms

# Below is generated by plot.py at 2019-02-05 09:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 27.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 27.016 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 27.141 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 27.070 ms
Loss rate: 0.00%
```

### Run 5: Report of WebRTC media — Data Link

