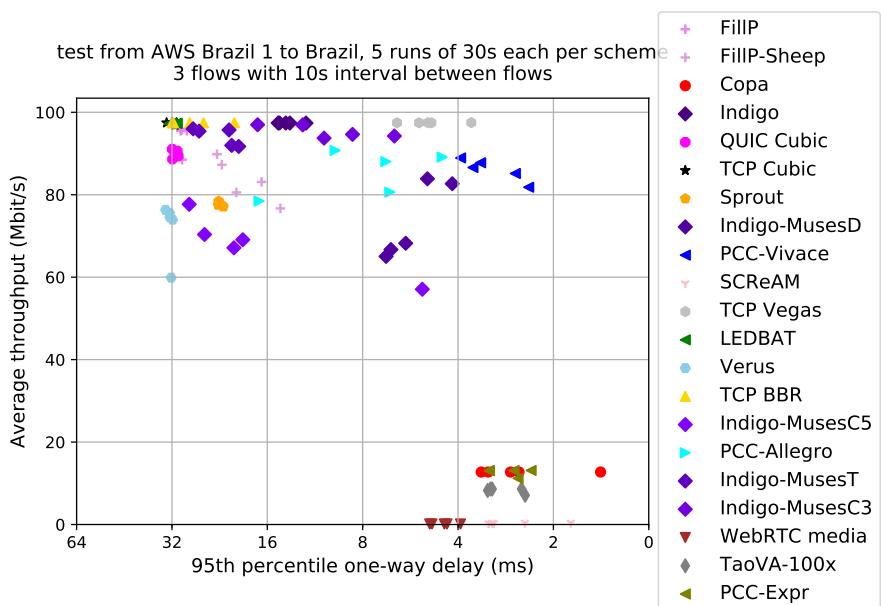
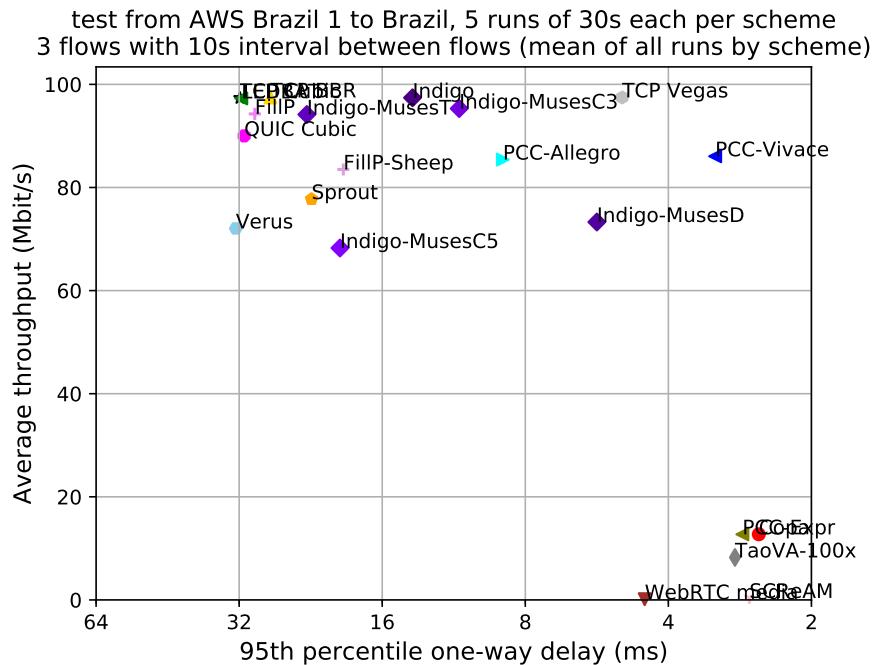


## Pantheon Report

Generated at 2019-01-17 14:20:25 (UTC).  
Data path: AWS Brazil 1 on `ens5` (*local*) → Brazil on `p4p1` (*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 `gps.ntp.br` 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 @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c  
third_party/fillp @ d6da1459332fceef56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170  
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



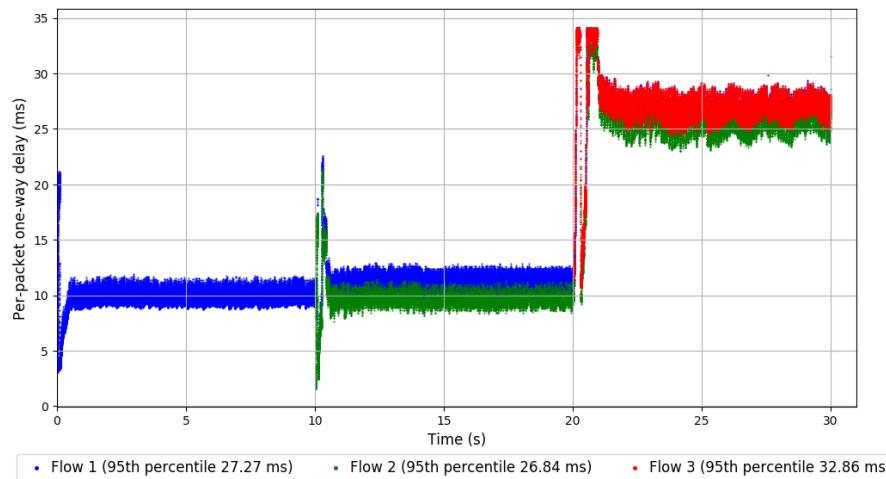
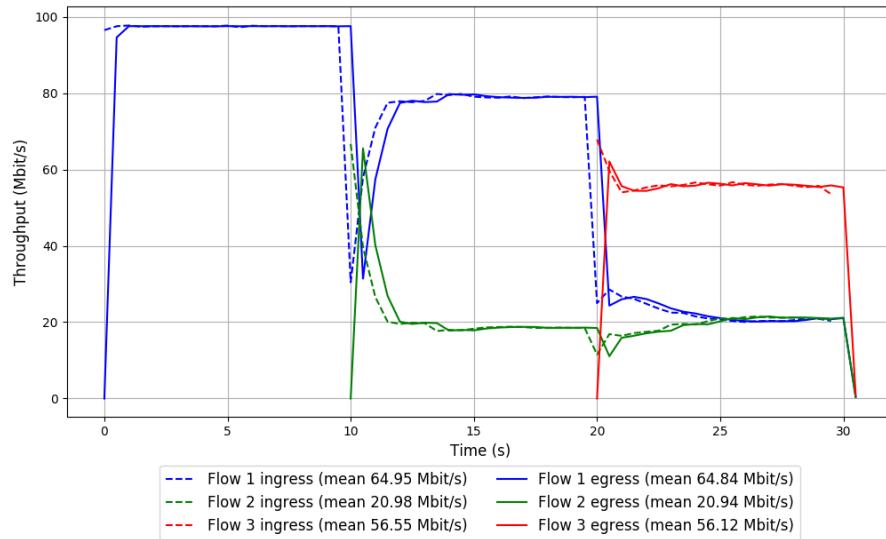
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	67.90	28.82	31.18	27.21	24.91	29.65	0.24	0.09	0.56
Copa		10.81	2.45	1.27	2.60	2.29	2.57	65.94	81.92	86.51
TCP Cubic		62.22	40.14	25.33	31.62	31.78	32.14	0.04	0.04	0.06
FillP		49.04	55.06	25.82	29.31	29.56	28.90	12.38	17.78	31.12
FillP-Sheep		47.44	36.54	35.44	15.36	20.72	21.40	0.98	1.30	2.92
Indigo		46.92	42.60	68.43	11.39	13.72	14.79	0.00	0.00	0.01
Indigo-MusesC3		55.59	42.89	39.09	9.69	11.44	11.69	0.00	0.00	0.01
Indigo-MusesC5		35.63	33.64	35.48	18.19	19.88	20.48	0.00	0.03	0.02
Indigo-MusesD		42.71	36.93	21.72	4.88	5.57	6.24	0.00	0.00	0.02
Indigo-MusesT		58.74	43.77	23.20	21.24	23.81	25.72	0.04	0.10	0.24
LEDBAT		64.05	33.08	33.77	31.47	31.41	32.18	0.03	0.15	0.08
PCC-Allegro		69.67	18.36	10.65	7.17	13.82	17.56	0.02	0.07	0.15
PCC-Expr		8.15	4.67	4.44	4.60	2.21	1.89	28.75	27.84	25.50
QUIC Cubic		56.55	36.08	28.78	30.69	31.50	30.93	0.13	0.17	0.21
SCReAM		0.18	0.20	0.22	1.83	2.41	1.83	0.00	0.00	0.00
Sprout		43.39	36.59	30.31	20.39	22.38	24.96	0.01	0.00	0.00
TaoVA-100x		0.00	9.67	6.13	1.77	3.01	3.06	95.92	81.53	91.00
TCP Vegas		48.17	44.08	59.93	6.46	4.45	4.40	0.00	0.00	0.01
Verus		42.28	29.53	30.76	31.85	32.88	32.37	16.56	19.40	28.48
PCC-Vivace		53.80	36.36	24.42	2.82	3.54	2.98	0.00	0.00	0.00
WebRTC media		0.05	0.05	0.05	4.23	4.98	4.84	0.01	0.00	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-17 12:14:02
End at: 2019-01-17 12:14:32
Local clock offset: -6.423 ms
Remote clock offset: 1.578 ms

# Below is generated by plot.py at 2019-01-17 14:10:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 28.102 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 64.84 Mbit/s
95th percentile per-packet one-way delay: 27.268 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 20.94 Mbit/s
95th percentile per-packet one-way delay: 26.838 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 56.12 Mbit/s
95th percentile per-packet one-way delay: 32.861 ms
Loss rate: 0.58%
```

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

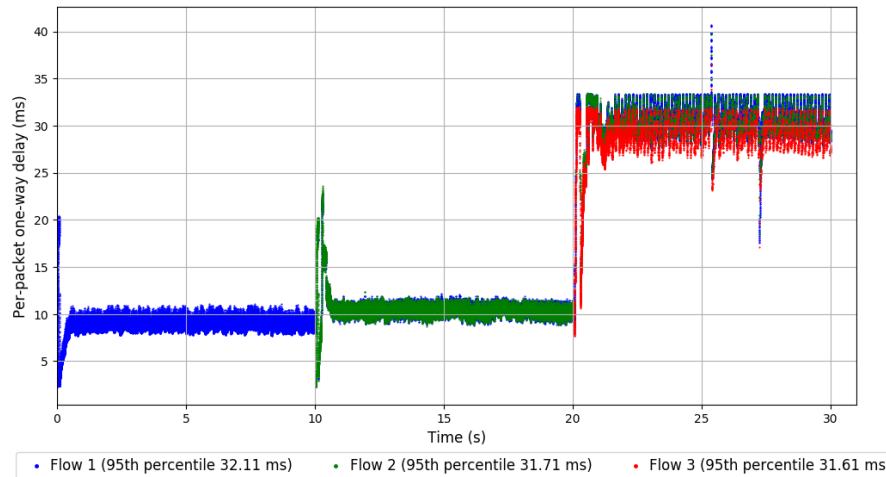
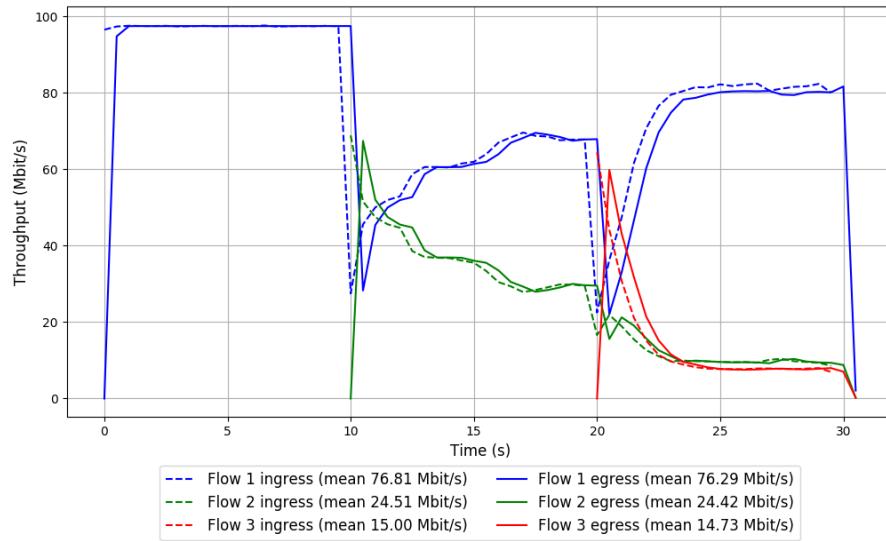


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-17 12:37:56
End at: 2019-01-17 12:38:26
Local clock offset: -4.784 ms
Remote clock offset: 1.317 ms

# Below is generated by plot.py at 2019-01-17 14:10:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 31.976 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 76.29 Mbit/s
95th percentile per-packet one-way delay: 32.108 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 31.713 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 31.615 ms
Loss rate: 1.61%
```

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

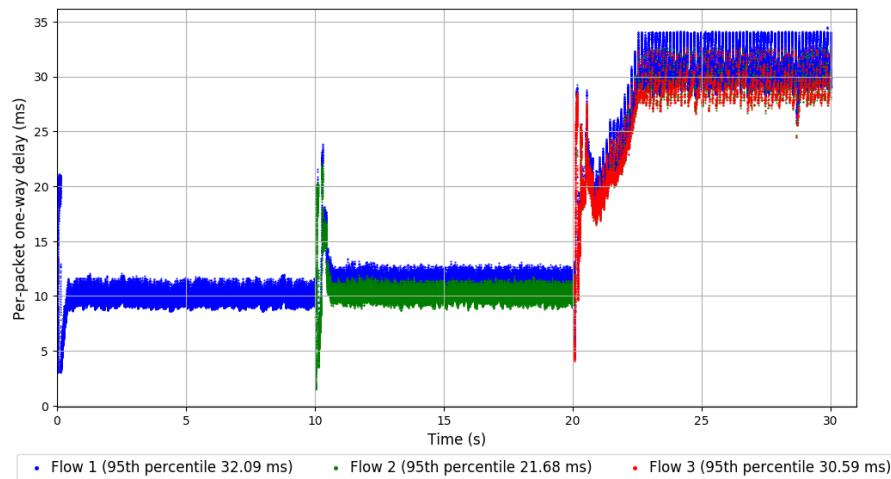
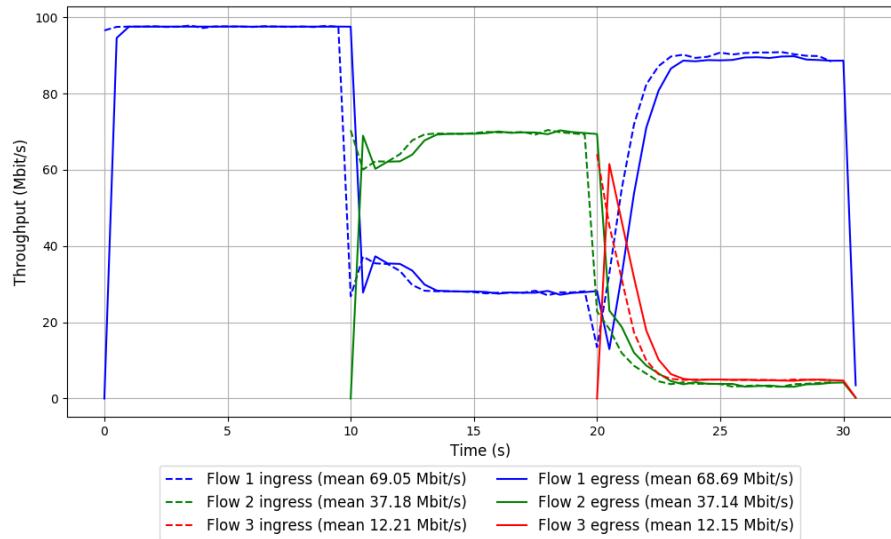


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-17 13:01:50
End at: 2019-01-17 13:02:20
Local clock offset: -4.662 ms
Remote clock offset: 1.224 ms

# Below is generated by plot.py at 2019-01-17 14:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 31.668 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 68.69 Mbit/s
95th percentile per-packet one-way delay: 32.089 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 21.685 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 30.589 ms
Loss rate: 0.32%
```

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

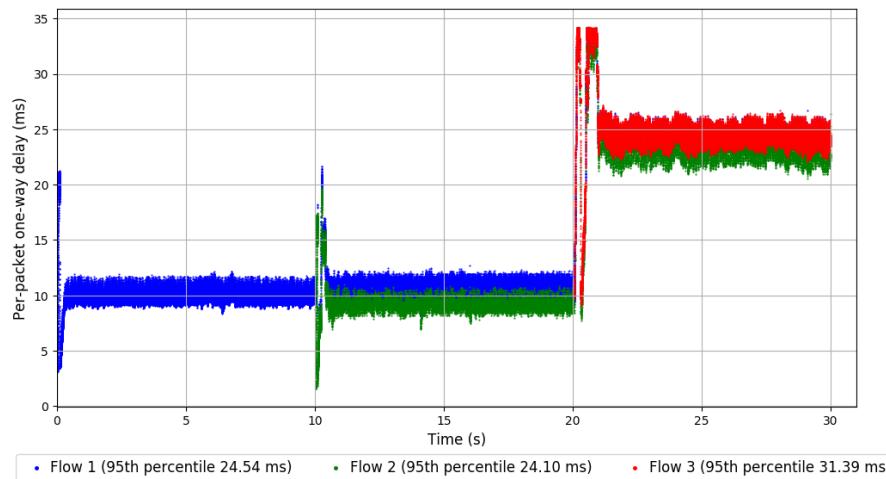
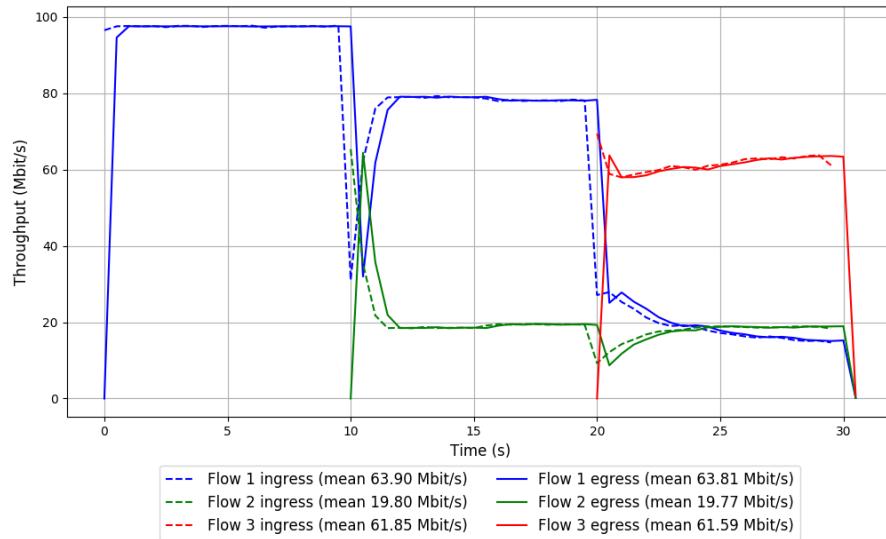


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-17 13:25:45
End at: 2019-01-17 13:26:15
Local clock offset: -5.064 ms
Remote clock offset: 1.476 ms

# Below is generated by plot.py at 2019-01-17 14:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 25.445 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 63.81 Mbit/s
95th percentile per-packet one-way delay: 24.540 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 24.100 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 31.389 ms
Loss rate: 0.30%
```

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

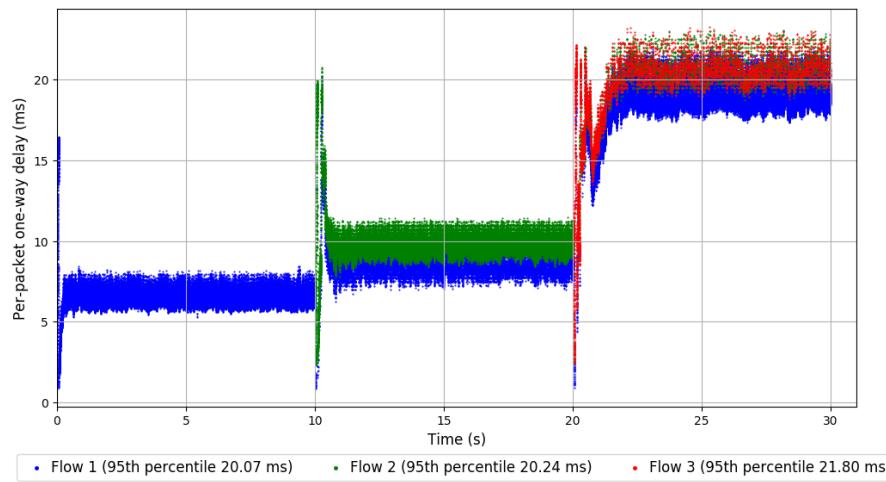
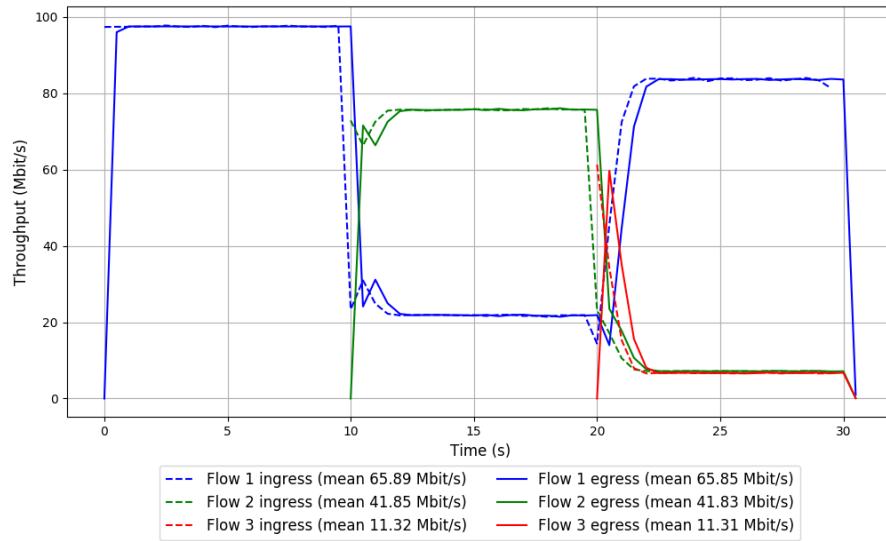


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-17 13:49:39
End at: 2019-01-17 13:50:09
Local clock offset: -4.598 ms
Remote clock offset: 1.572 ms

# Below is generated by plot.py at 2019-01-17 14:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 20.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.85 Mbit/s
95th percentile per-packet one-way delay: 20.067 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.83 Mbit/s
95th percentile per-packet one-way delay: 20.238 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 21.798 ms
Loss rate: 0.00%
```

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

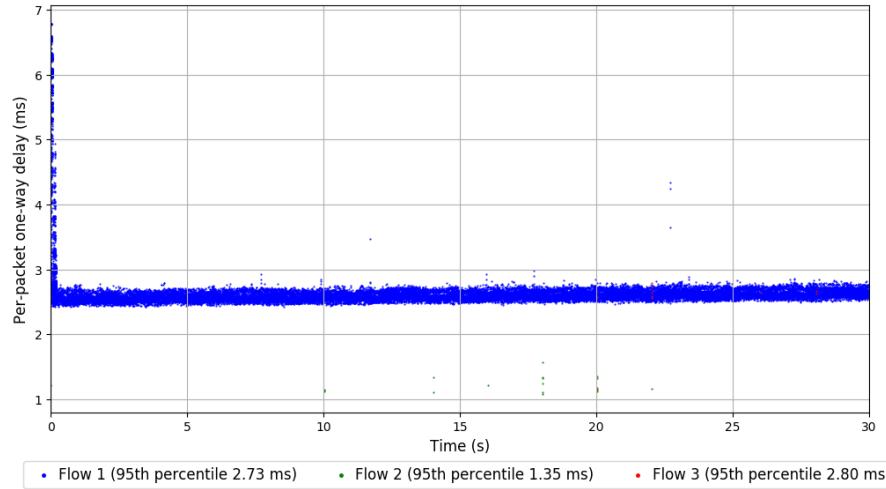
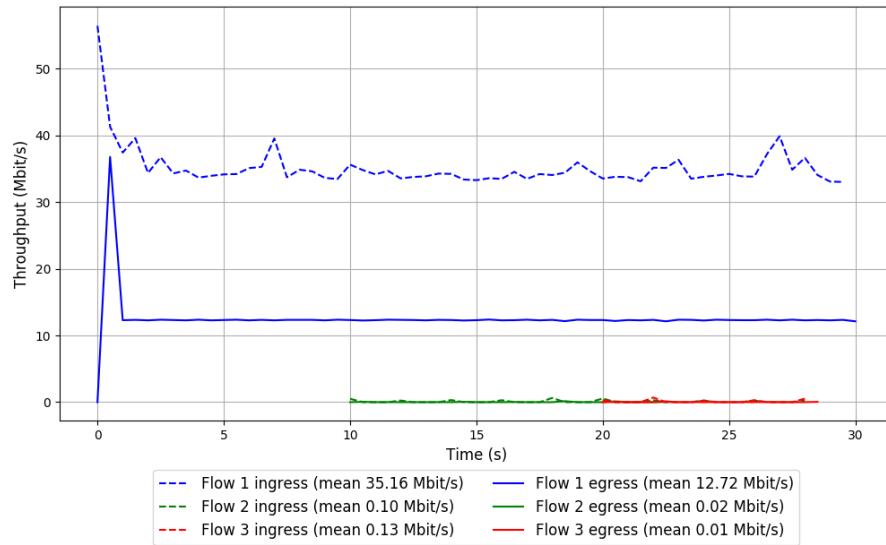


Run 1: Statistics of Copa

```
Start at: 2019-01-17 12:19:45
End at: 2019-01-17 12:20:15
Local clock offset: -5.666 ms
Remote clock offset: 1.569 ms

# Below is generated by plot.py at 2019-01-17 14:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.732 ms
Loss rate: 63.89%
-- Flow 1:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 2.732 ms
Loss rate: 63.82%
-- Flow 2:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 1.353 ms
Loss rate: 88.38%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 2.797 ms
Loss rate: 89.32%
```

## Run 1: Report of Copa — Data Link

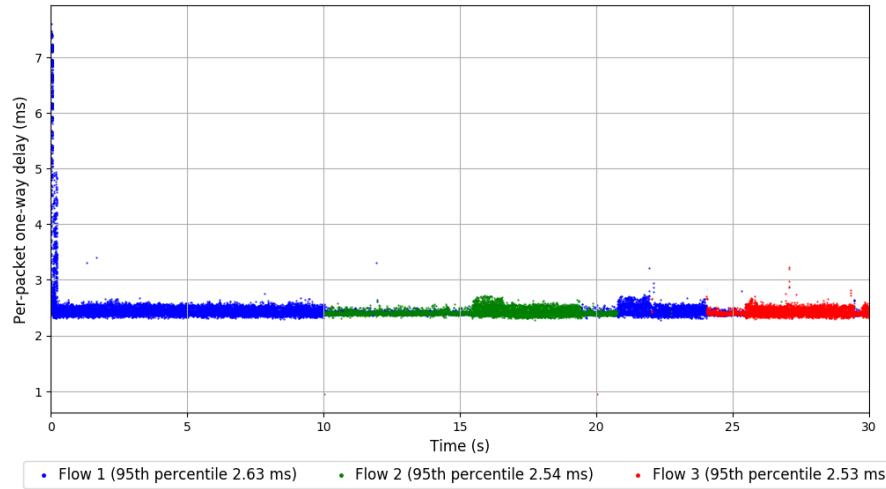
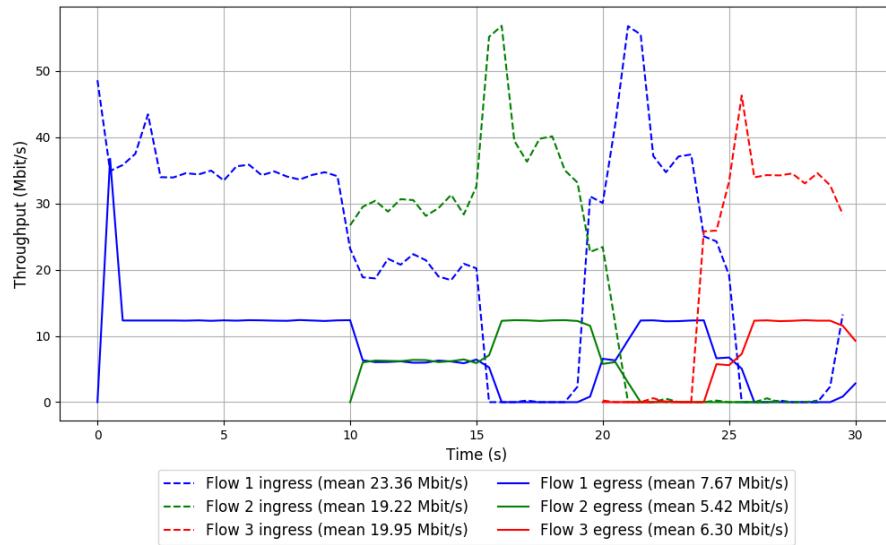


Run 2: Statistics of Copa

```
Start at: 2019-01-17 12:43:39
End at: 2019-01-17 12:44:09
Local clock offset: -4.902 ms
Remote clock offset: 1.394 ms

# Below is generated by plot.py at 2019-01-17 14:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 2.568 ms
Loss rate: 69.57%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 2.626 ms
Loss rate: 67.19%
-- Flow 2:
Average throughput: 5.42 Mbit/s
95th percentile per-packet one-way delay: 2.541 ms
Loss rate: 74.80%
-- Flow 3:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 2.529 ms
Loss rate: 68.42%
```

Run 2: Report of Copa — Data Link

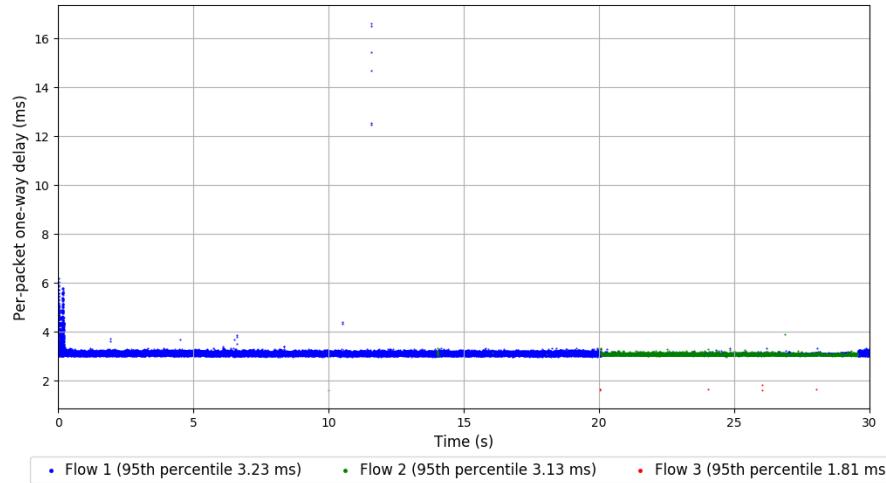
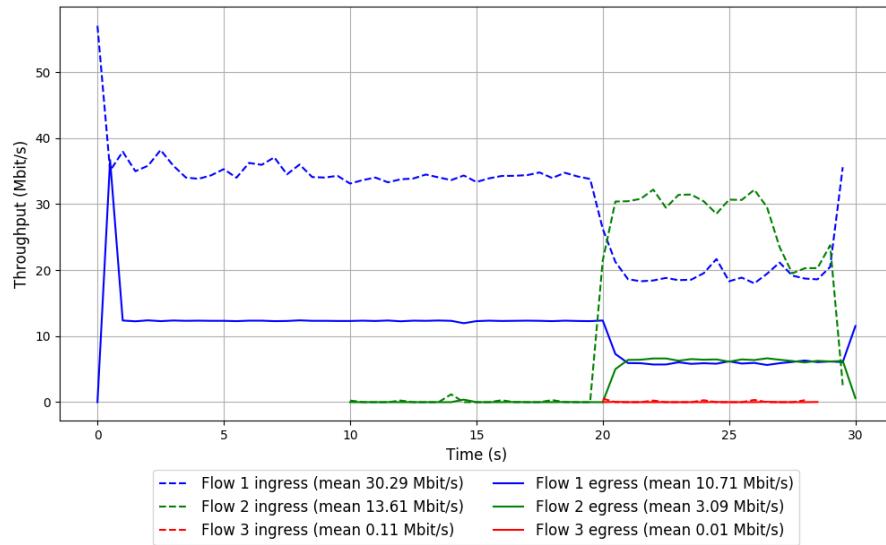


Run 3: Statistics of Copa

```
Start at: 2019-01-17 13:07:34
End at: 2019-01-17 13:08:04
Local clock offset: -4.69 ms
Remote clock offset: 1.206 ms

# Below is generated by plot.py at 2019-01-17 14:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.214 ms
Loss rate: 67.51%
-- Flow 1:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 3.225 ms
Loss rate: 64.63%
-- Flow 2:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 3.129 ms
Loss rate: 77.29%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1.812 ms
Loss rate: 91.32%
```

Run 3: Report of Copa — Data Link

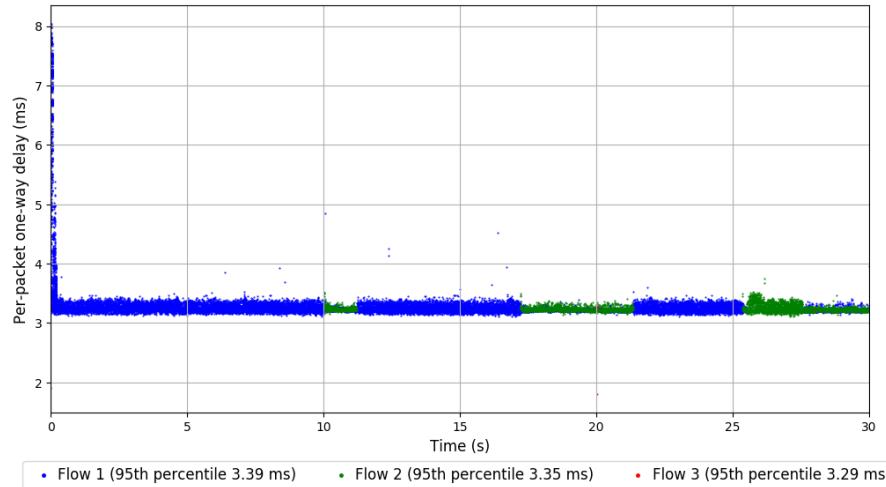
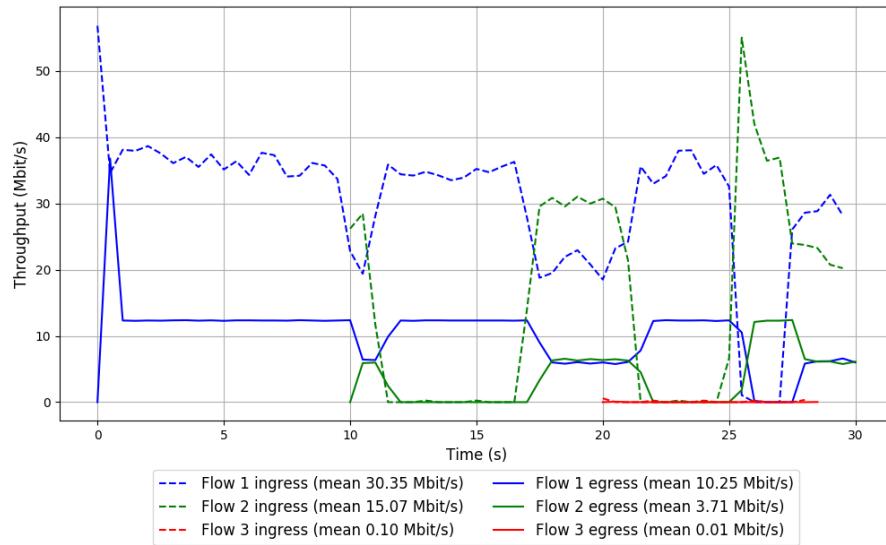


Run 4: Statistics of Copa

```
Start at: 2019-01-17 13:31:28
End at: 2019-01-17 13:31:58
Local clock offset: -5.328 ms
Remote clock offset: 1.561 ms

# Below is generated by plot.py at 2019-01-17 14:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.381 ms
Loss rate: 68.50%
-- Flow 1:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 3.390 ms
Loss rate: 66.21%
-- Flow 2:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 3.351 ms
Loss rate: 75.35%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 3.287 ms
Loss rate: 94.00%
```

Run 4: Report of Copa — Data Link

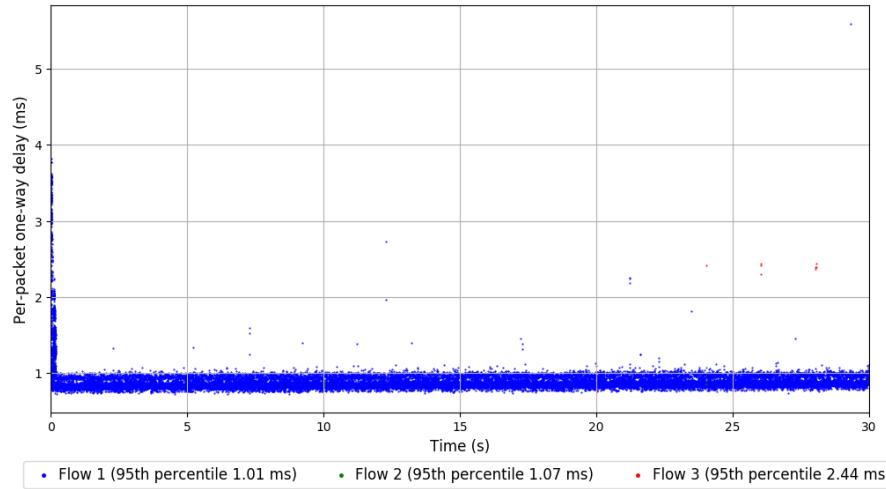
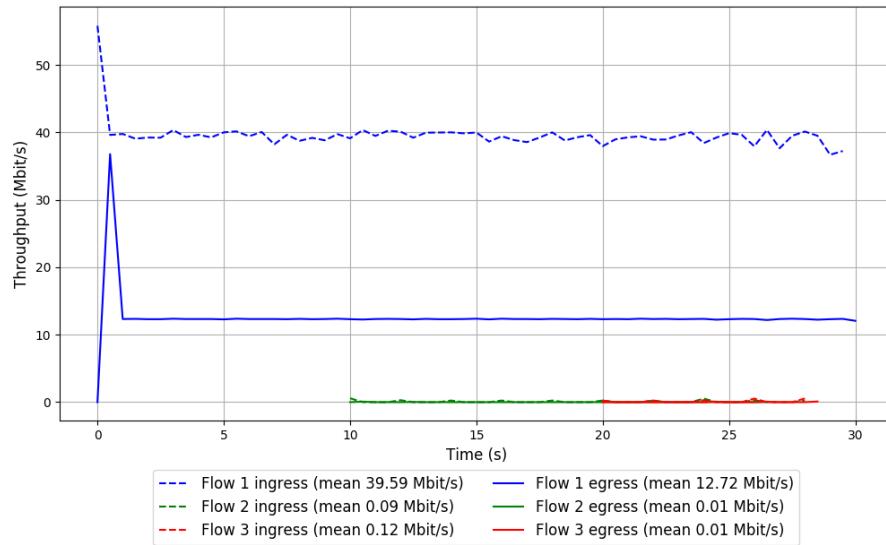


Run 5: Statistics of Copa

```
Start at: 2019-01-17 13:55:23
End at: 2019-01-17 13:55:53
Local clock offset: -4.066 ms
Remote clock offset: 1.44 ms

# Below is generated by plot.py at 2019-01-17 14:10:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 1.010 ms
Loss rate: 67.91%
-- Flow 1:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 1.009 ms
Loss rate: 67.86%
-- Flow 2:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1.070 ms
Loss rate: 93.78%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 2.442 ms
Loss rate: 89.51%
```

### Run 5: Report of Copa — Data Link

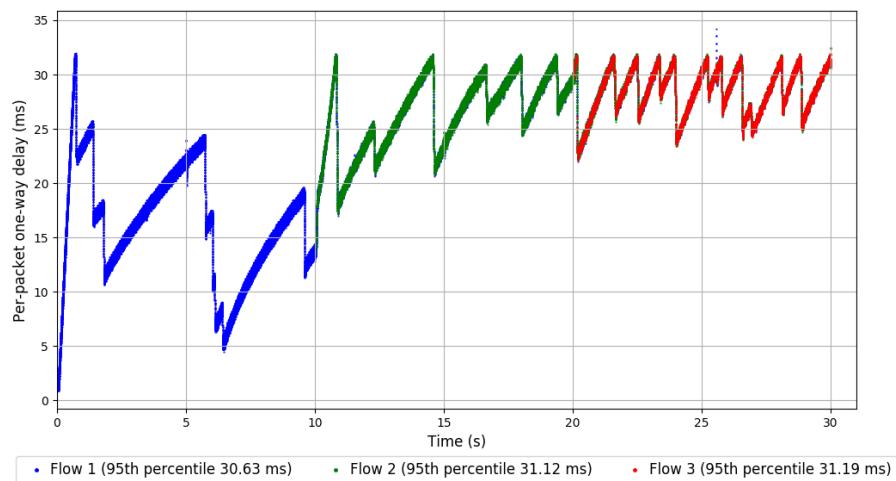
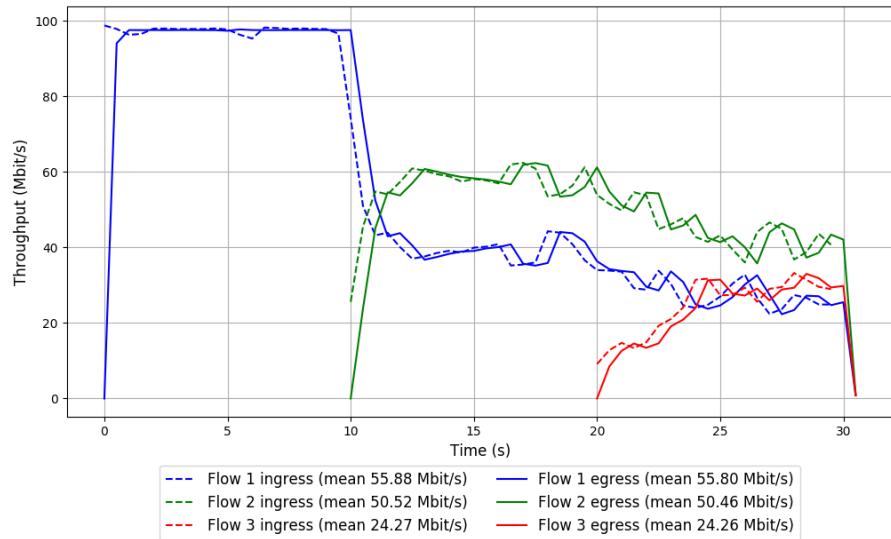


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-17 12:16:17
End at: 2019-01-17 12:16:47
Local clock offset: -6.061 ms
Remote clock offset: 1.49 ms

# Below is generated by plot.py at 2019-01-17 14:10:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 30.926 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 55.80 Mbit/s
95th percentile per-packet one-way delay: 30.627 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 31.124 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 31.188 ms
Loss rate: 0.05%
```

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

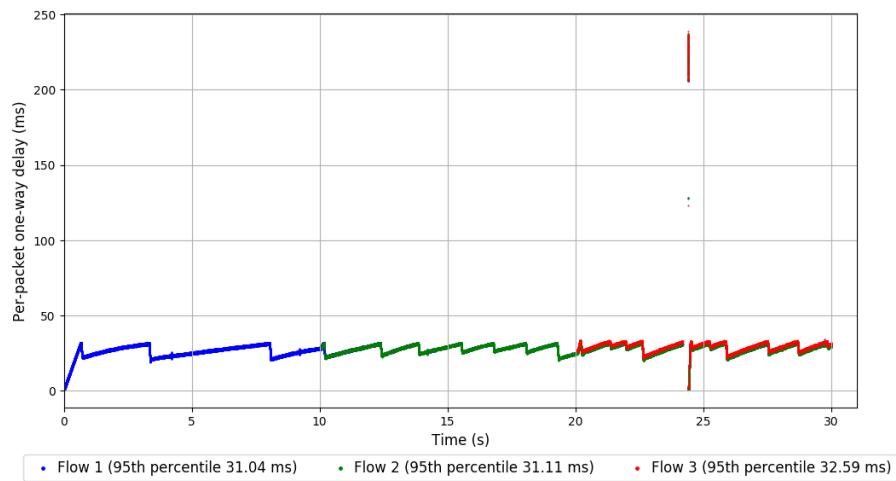
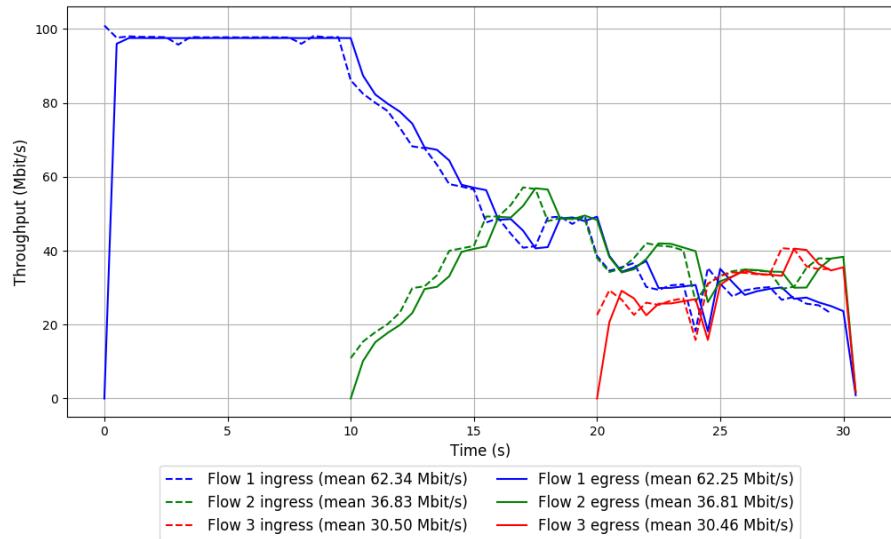


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-17 12:40:11
End at: 2019-01-17 12:40:41
Local clock offset: -4.843 ms
Remote clock offset: 1.254 ms

# Below is generated by plot.py at 2019-01-17 14:10:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 31.310 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.25 Mbit/s
95th percentile per-packet one-way delay: 31.042 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 36.81 Mbit/s
95th percentile per-packet one-way delay: 31.111 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 32.592 ms
Loss rate: 0.08%
```

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

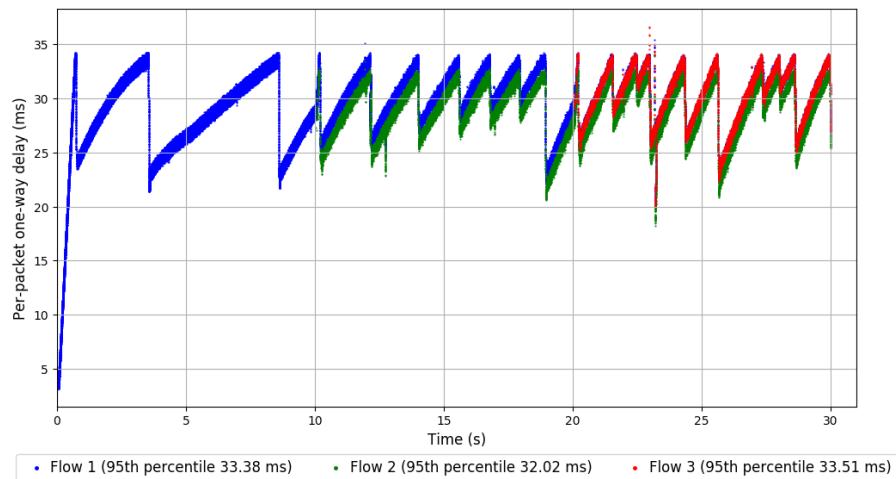
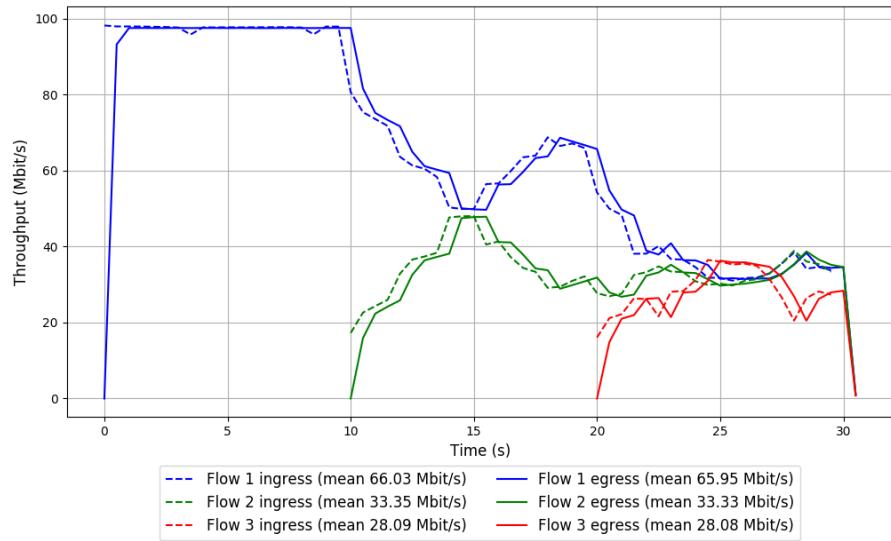


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-17 13:04:06
End at: 2019-01-17 13:04:36
Local clock offset: -4.706 ms
Remote clock offset: 1.298 ms

# Below is generated by plot.py at 2019-01-17 14:10:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 33.280 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 33.378 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 33.33 Mbit/s
95th percentile per-packet one-way delay: 32.023 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 33.514 ms
Loss rate: 0.07%
```

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

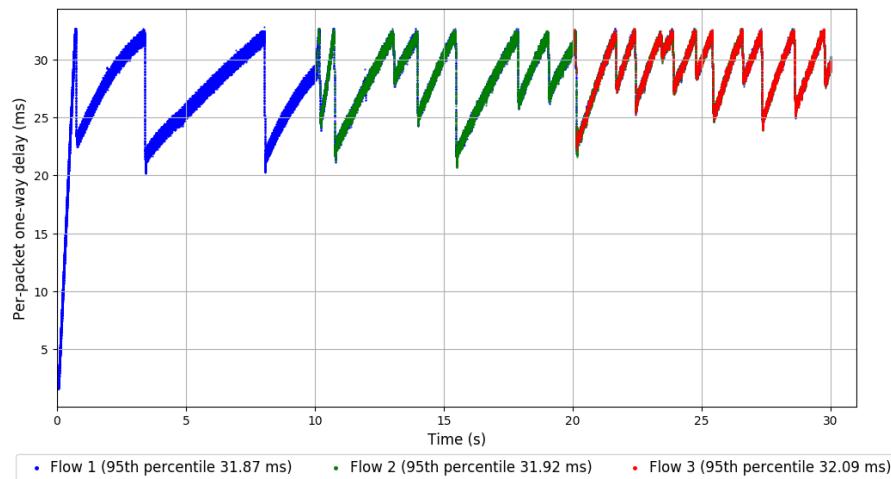
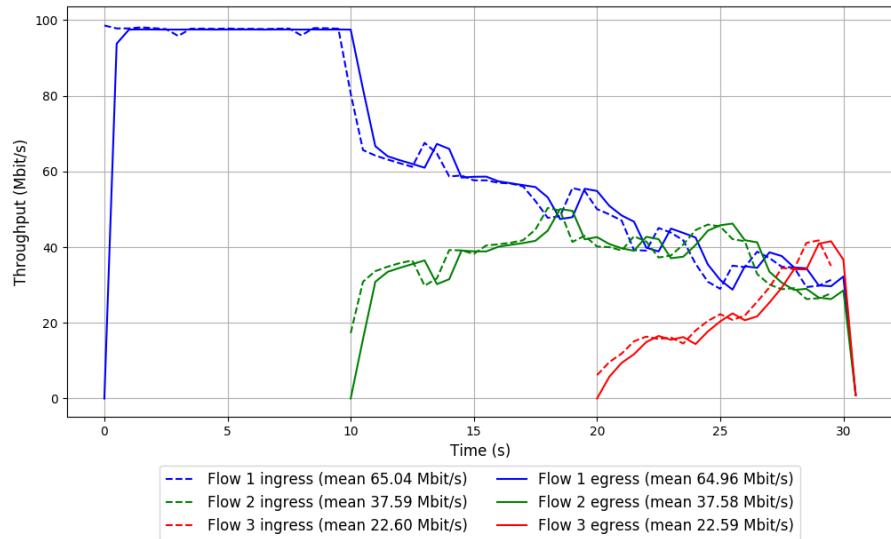


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-17 13:28:00
End at: 2019-01-17 13:28:30
Local clock offset: -5.156 ms
Remote clock offset: 1.467 ms

# Below is generated by plot.py at 2019-01-17 14:11:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 31.905 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 64.96 Mbit/s
95th percentile per-packet one-way delay: 31.867 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.58 Mbit/s
95th percentile per-packet one-way delay: 31.923 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 22.59 Mbit/s
95th percentile per-packet one-way delay: 32.095 ms
Loss rate: 0.04%
```

Run 4: Report of TCP Cubic — Data Link

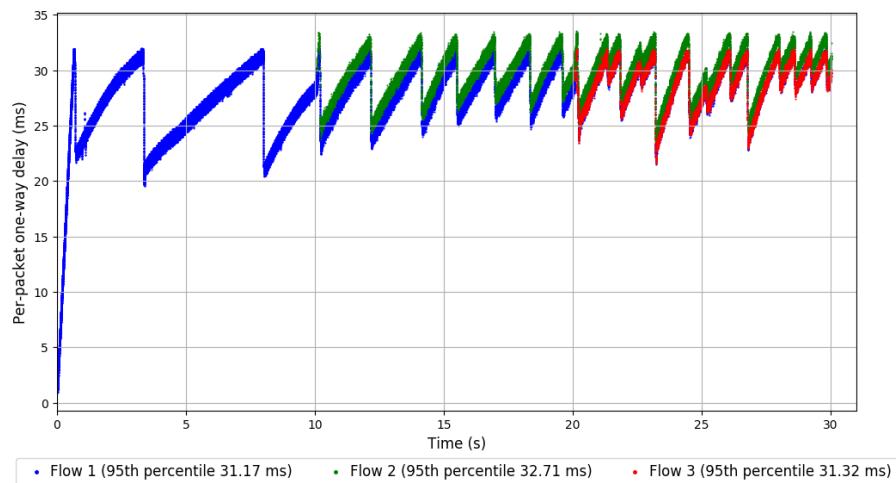
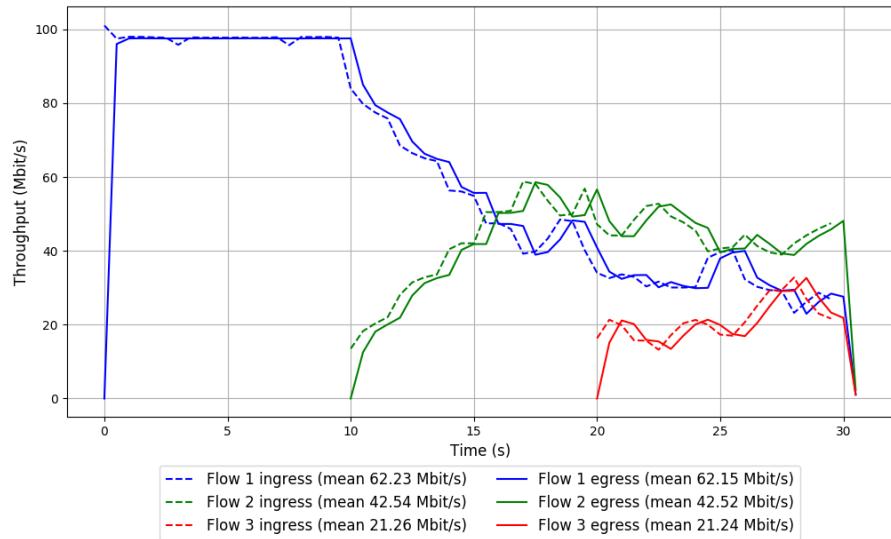


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-17 13:51:56
End at: 2019-01-17 13:52:26
Local clock offset: -4.342 ms
Remote clock offset: 1.562 ms

# Below is generated by plot.py at 2019-01-17 14:11:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 32.007 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 62.15 Mbit/s
95th percentile per-packet one-way delay: 31.172 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 32.713 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 21.24 Mbit/s
95th percentile per-packet one-way delay: 31.316 ms
Loss rate: 0.08%
```

Run 5: Report of TCP Cubic — Data Link

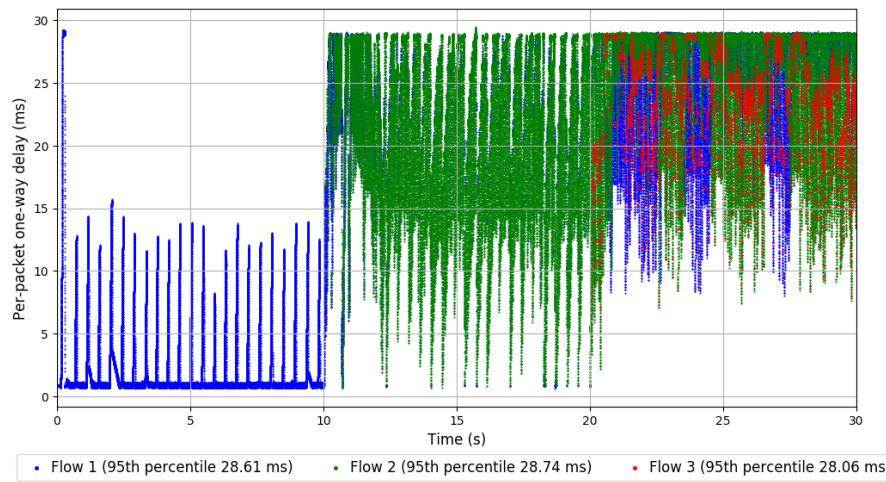
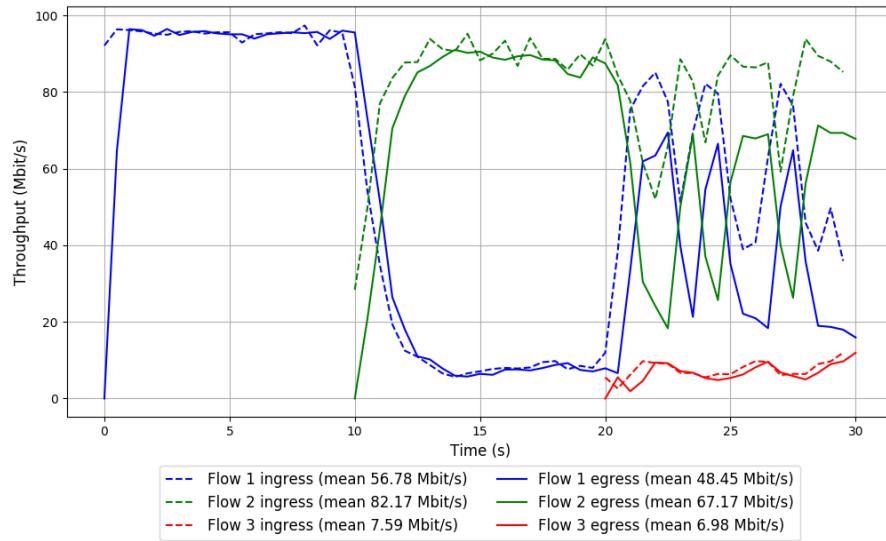


```
Run 1: Statistics of FillP

Start at: 2019-01-17 12:27:42
End at: 2019-01-17 12:28:12
Local clock offset: -4.79 ms
Remote clock offset: 1.402 ms

# Below is generated by plot.py at 2019-01-17 14:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 28.705 ms
Loss rate: 16.15%
-- Flow 1:
Average throughput: 48.45 Mbit/s
95th percentile per-packet one-way delay: 28.609 ms
Loss rate: 14.60%
-- Flow 2:
Average throughput: 67.17 Mbit/s
95th percentile per-packet one-way delay: 28.744 ms
Loss rate: 18.14%
-- Flow 3:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 28.058 ms
Loss rate: 8.01%
```

## Run 1: Report of FillP — Data Link

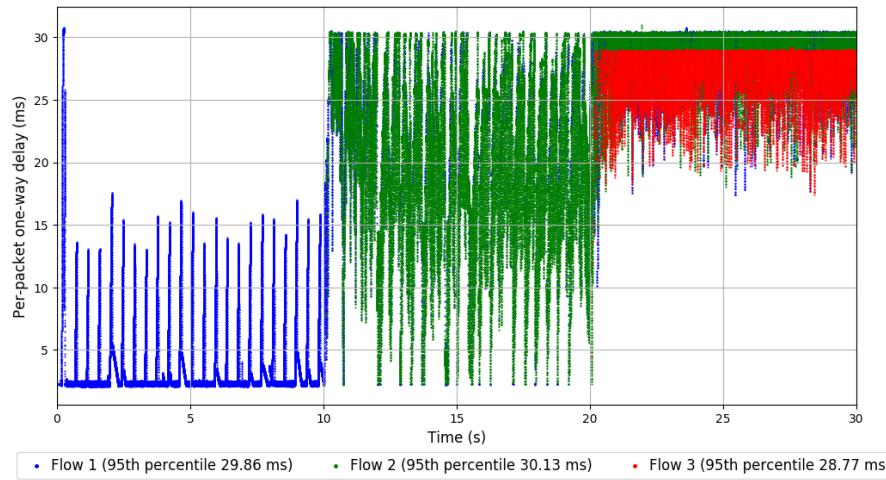
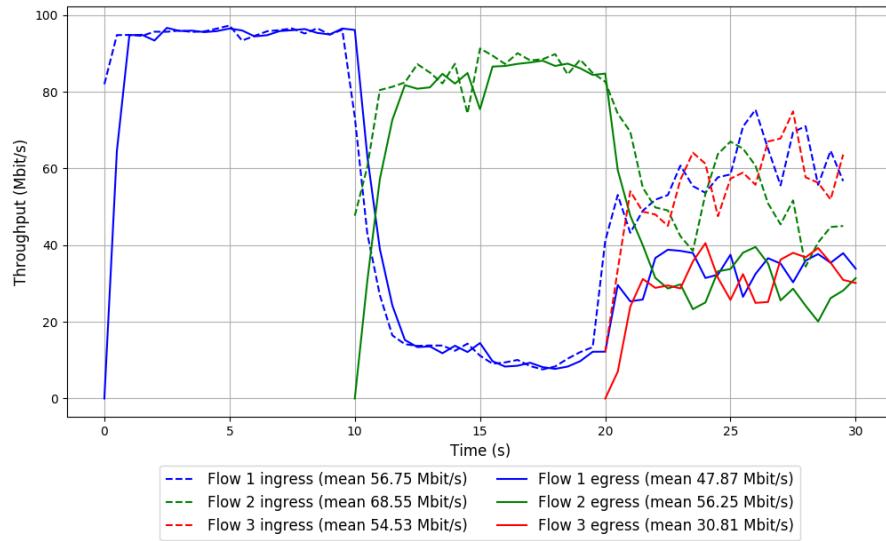


Run 2: Statistics of FillP

```
Start at: 2019-01-17 12:51:36
End at: 2019-01-17 12:52:06
Local clock offset: -4.46 ms
Remote clock offset: 1.209 ms

# Below is generated by plot.py at 2019-01-17 14:11:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.52 Mbit/s
95th percentile per-packet one-way delay: 30.008 ms
Loss rate: 20.63%
-- Flow 1:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 29.864 ms
Loss rate: 15.59%
-- Flow 2:
Average throughput: 56.25 Mbit/s
95th percentile per-packet one-way delay: 30.126 ms
Loss rate: 17.85%
-- Flow 3:
Average throughput: 30.81 Mbit/s
95th percentile per-packet one-way delay: 28.770 ms
Loss rate: 43.47%
```

## Run 2: Report of FillP — Data Link

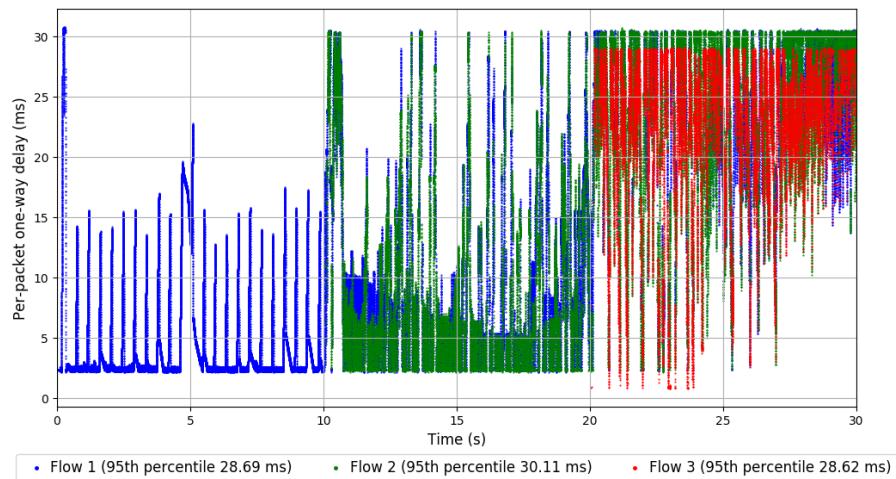
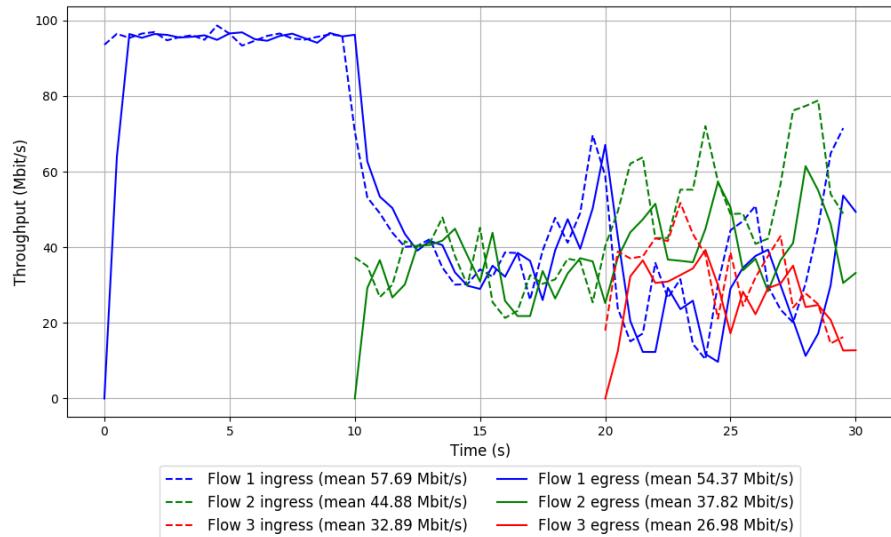


Run 3: Statistics of FillP

```
Start at: 2019-01-17 13:15:31
End at: 2019-01-17 13:16:01
Local clock offset: -4.024 ms
Remote clock offset: 1.332 ms

# Below is generated by plot.py at 2019-01-17 14:11:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: 29.714 ms
Loss rate: 10.03%
-- Flow 1:
Average throughput: 54.37 Mbit/s
95th percentile per-packet one-way delay: 28.691 ms
Loss rate: 5.67%
-- Flow 2:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 30.109 ms
Loss rate: 15.62%
-- Flow 3:
Average throughput: 26.98 Mbit/s
95th percentile per-packet one-way delay: 28.618 ms
Loss rate: 17.82%
```

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

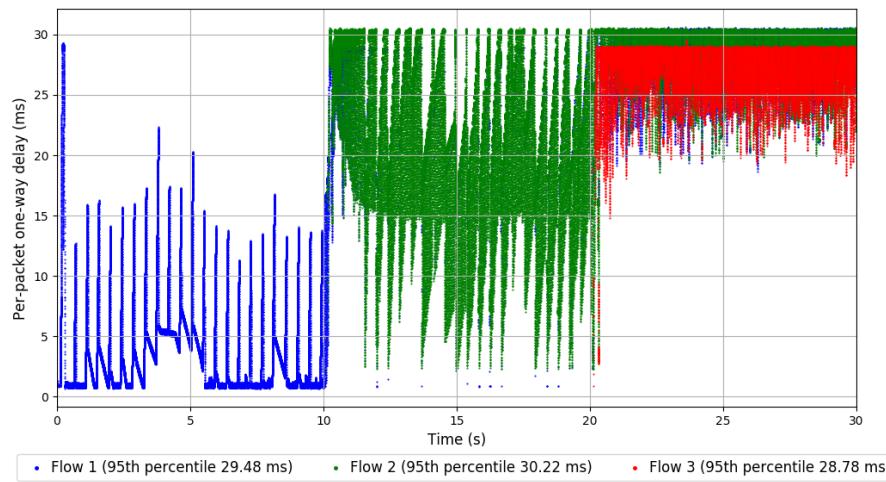
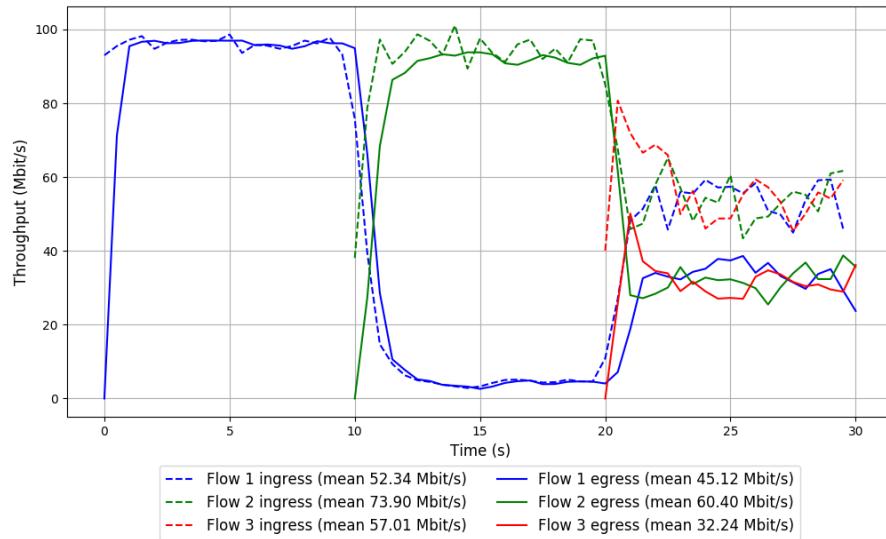


Run 4: Statistics of FillP

```
Start at: 2019-01-17 13:39:25
End at: 2019-01-17 13:39:55
Local clock offset: -4.736 ms
Remote clock offset: 1.604 ms

# Below is generated by plot.py at 2019-01-17 14:11:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 30.079 ms
Loss rate: 20.19%
-- Flow 1:
Average throughput: 45.12 Mbit/s
95th percentile per-packet one-way delay: 29.485 ms
Loss rate: 13.70%
-- Flow 2:
Average throughput: 60.40 Mbit/s
95th percentile per-packet one-way delay: 30.221 ms
Loss rate: 18.17%
-- Flow 3:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 28.784 ms
Loss rate: 43.40%
```

## Run 4: Report of FillP — Data Link

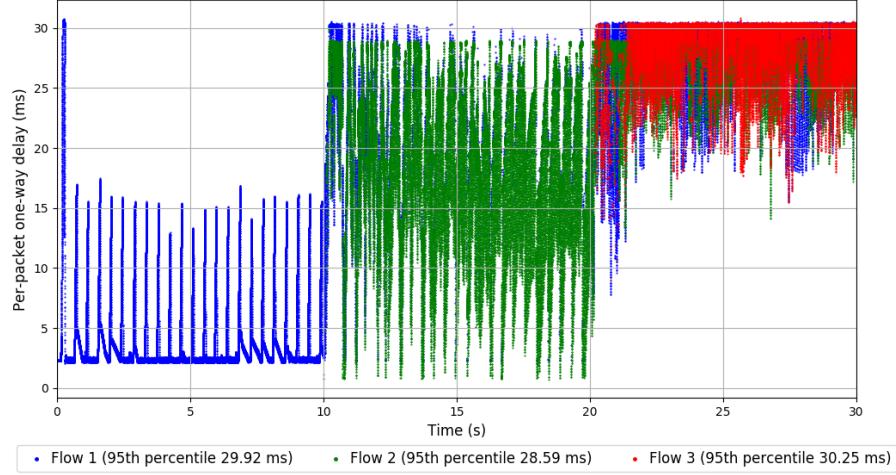
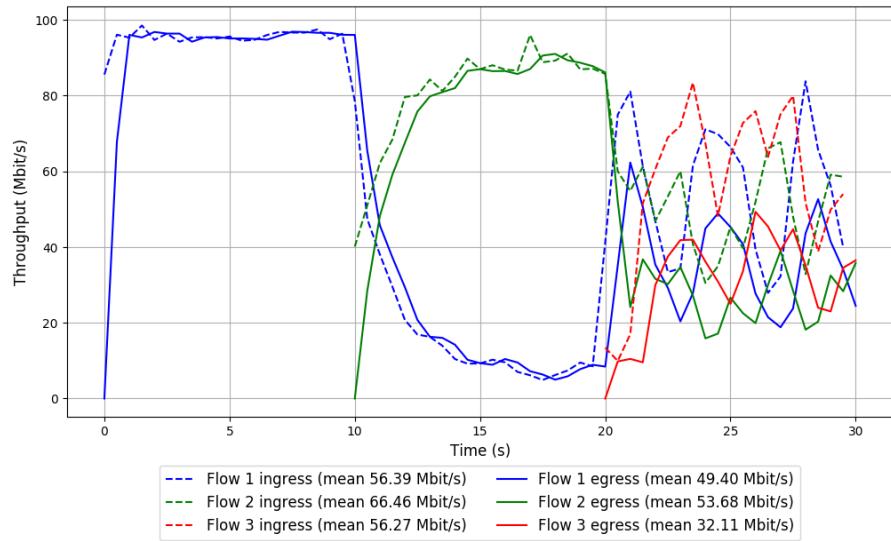


Run 5: Statistics of FillP

```
Start at: 2019-01-17 14:03:20
End at: 2019-01-17 14:03:50
Local clock offset: -3.745 ms
Remote clock offset: 1.379 ms

# Below is generated by plot.py at 2019-01-17 14:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 29.828 ms
Loss rate: 19.64%
-- Flow 1:
Average throughput: 49.40 Mbit/s
95th percentile per-packet one-way delay: 29.919 ms
Loss rate: 12.34%
-- Flow 2:
Average throughput: 53.68 Mbit/s
95th percentile per-packet one-way delay: 28.593 ms
Loss rate: 19.13%
-- Flow 3:
Average throughput: 32.11 Mbit/s
95th percentile per-packet one-way delay: 30.246 ms
Loss rate: 42.91%
```

## Run 5: Report of FillP — Data Link

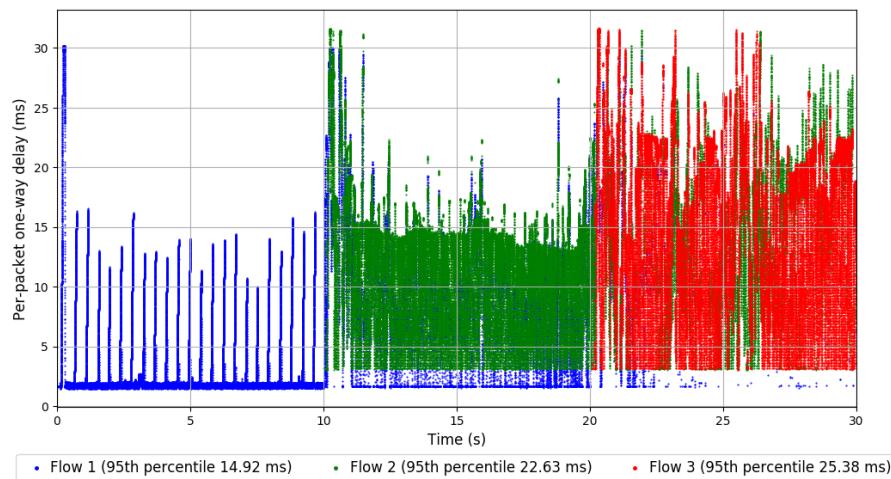
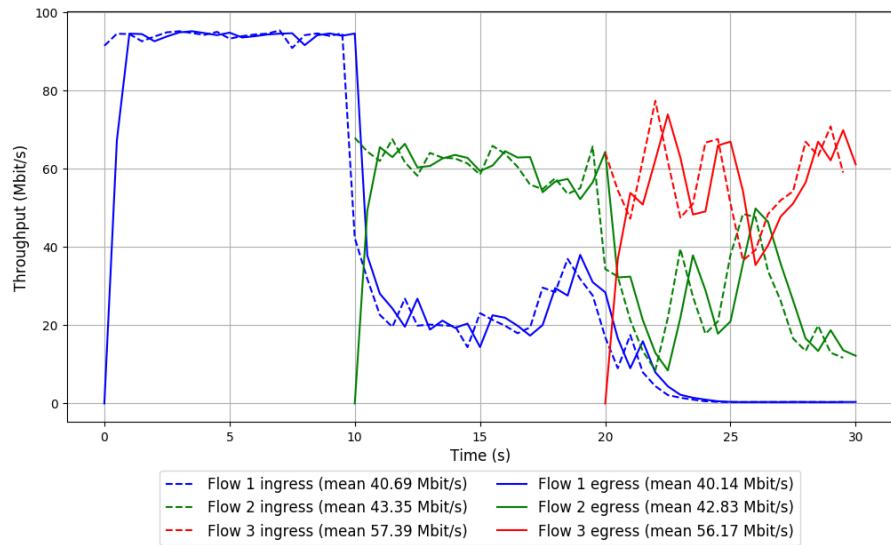


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-01-17 12:24:17
End at: 2019-01-17 12:24:47
Local clock offset: -5.77 ms
Remote clock offset: 1.466 ms

# Below is generated by plot.py at 2019-01-17 14:11:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.27 Mbit/s
95th percentile per-packet one-way delay: 22.270 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 40.14 Mbit/s
95th percentile per-packet one-way delay: 14.924 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 42.83 Mbit/s
95th percentile per-packet one-way delay: 22.634 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 25.383 ms
Loss rate: 2.23%
```

## Run 1: Report of FillP-Sheep — Data Link

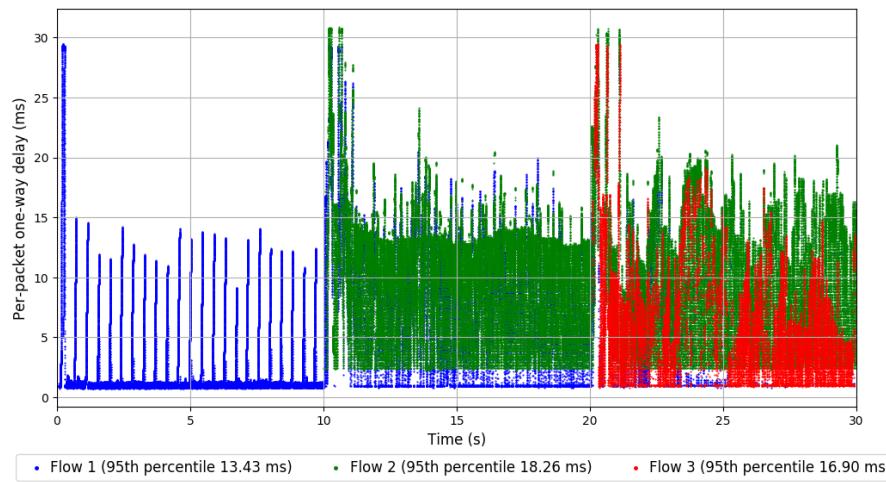
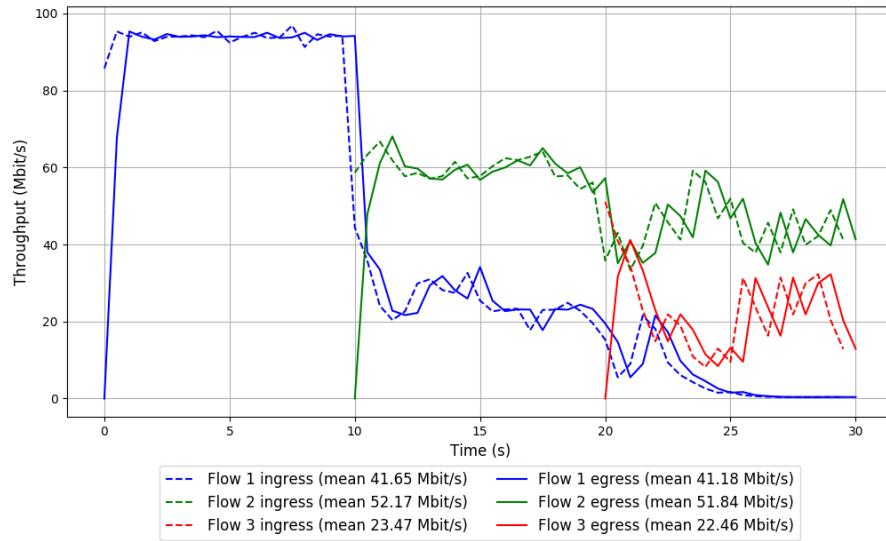


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-17 12:48:12
End at: 2019-01-17 12:48:42
Local clock offset: -4.934 ms
Remote clock offset: 1.297 ms

# Below is generated by plot.py at 2019-01-17 14:12:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.11 Mbit/s
95th percentile per-packet one-way delay: 16.683 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 41.18 Mbit/s
95th percentile per-packet one-way delay: 13.425 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 51.84 Mbit/s
95th percentile per-packet one-way delay: 18.259 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 22.46 Mbit/s
95th percentile per-packet one-way delay: 16.898 ms
Loss rate: 4.35%
```

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

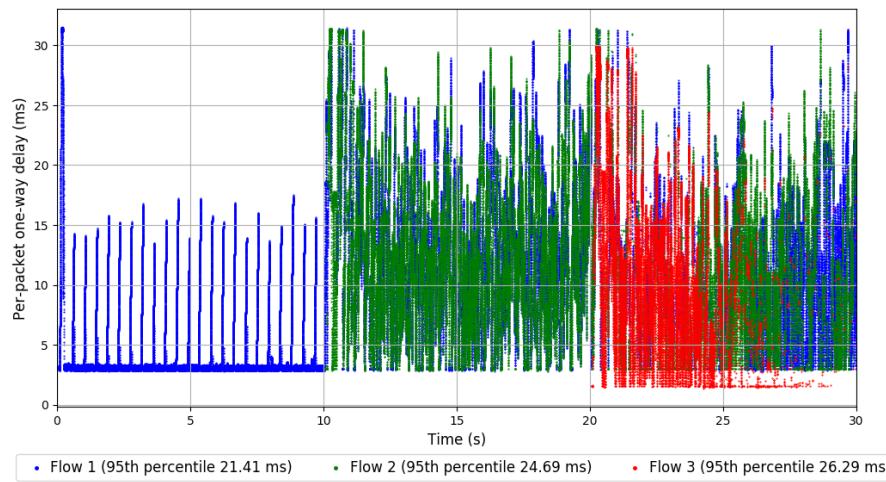
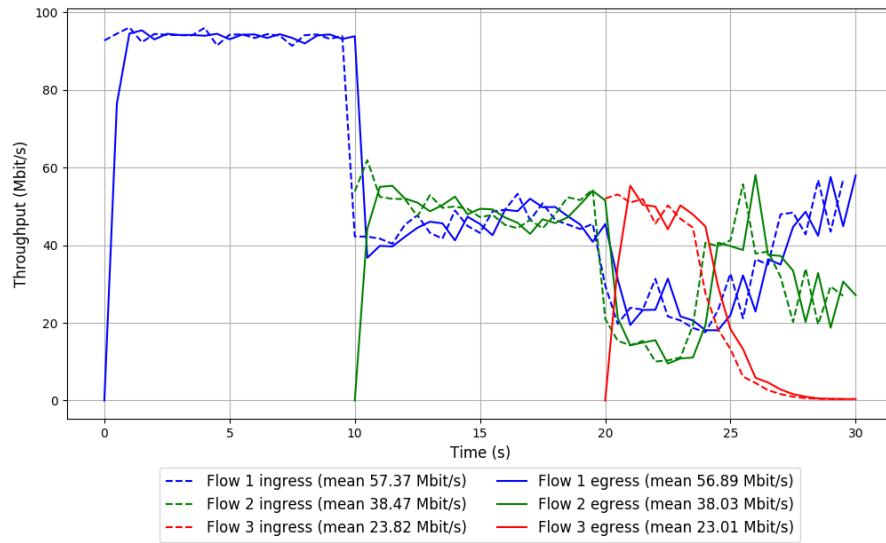


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-17 13:12:06
End at: 2019-01-17 13:12:36
Local clock offset: -4.72 ms
Remote clock offset: 1.218 ms

# Below is generated by plot.py at 2019-01-17 14:12:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: 23.062 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 56.89 Mbit/s
95th percentile per-packet one-way delay: 21.414 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 24.693 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 23.01 Mbit/s
95th percentile per-packet one-way delay: 26.290 ms
Loss rate: 3.29%
```

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

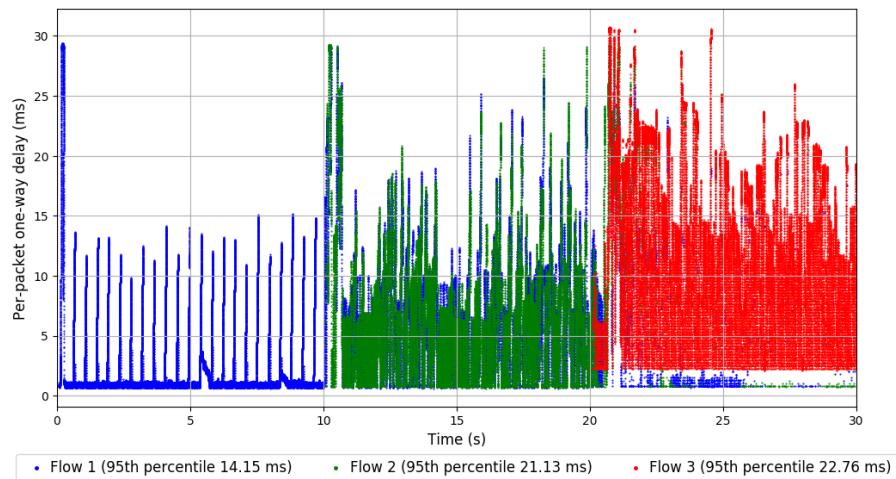
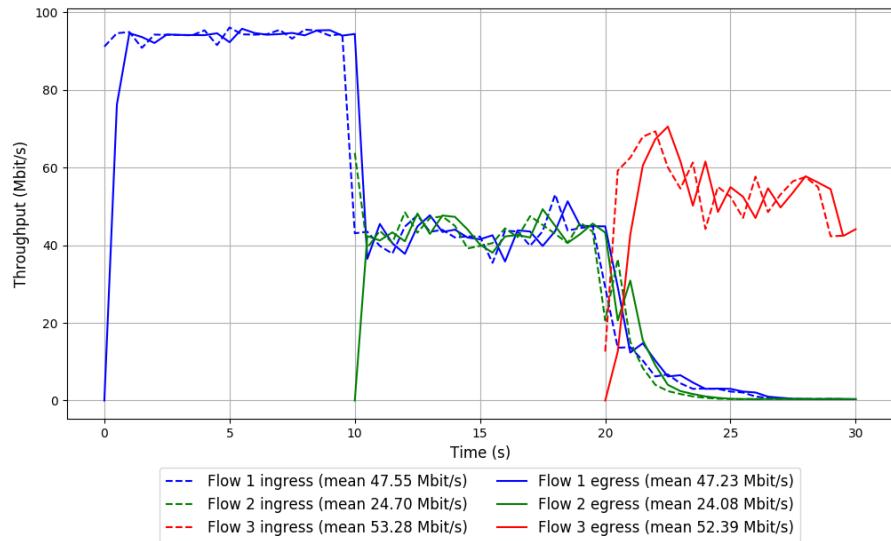


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-17 13:36:00
End at: 2019-01-17 13:36:30
Local clock offset: -4.65 ms
Remote clock offset: 1.518 ms

# Below is generated by plot.py at 2019-01-17 14:12:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.57 Mbit/s
95th percentile per-packet one-way delay: 20.027 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 47.23 Mbit/s
95th percentile per-packet one-way delay: 14.147 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 21.126 ms
Loss rate: 2.51%
-- Flow 3:
Average throughput: 52.39 Mbit/s
95th percentile per-packet one-way delay: 22.764 ms
Loss rate: 1.54%
```

Run 4: Report of FillP-Sheep — Data Link

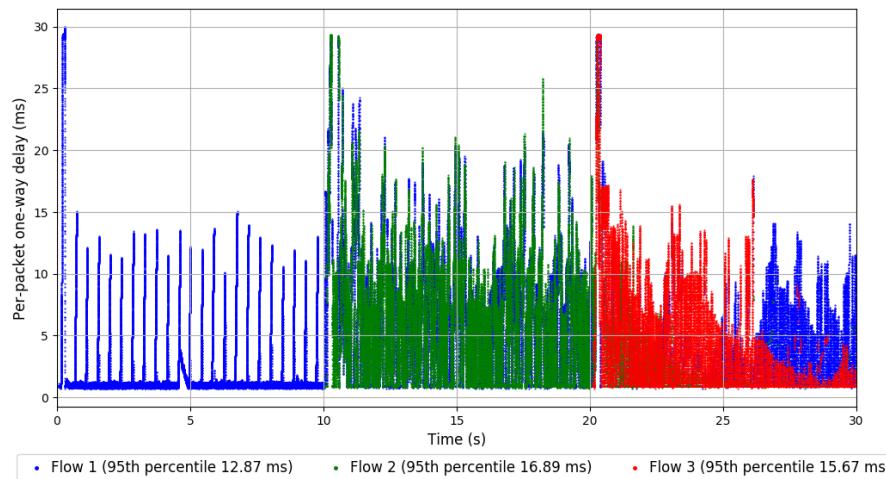
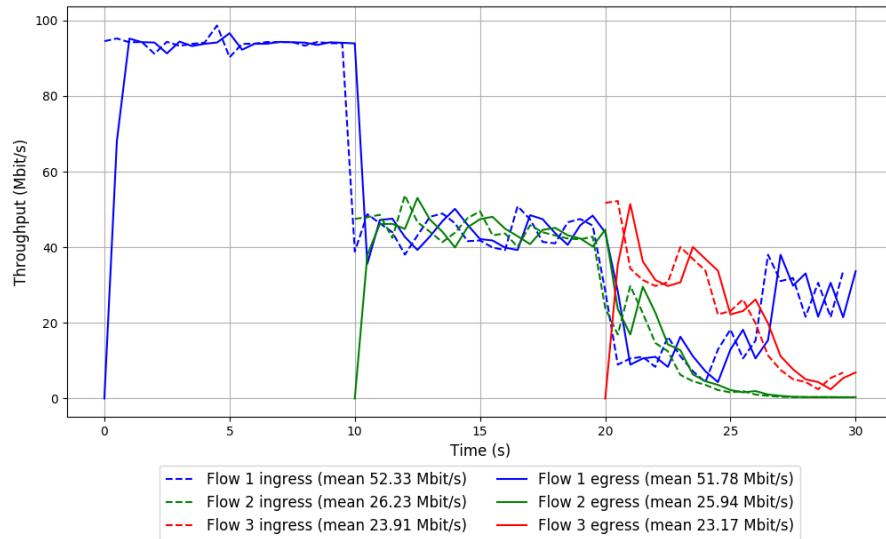


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-17 13:59:55
End at: 2019-01-17 14:00:25
Local clock offset: -3.833 ms
Remote clock offset: 1.518 ms

# Below is generated by plot.py at 2019-01-17 14:12:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 14.552 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 12.873 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 16.887 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 15.670 ms
Loss rate: 3.20%
```

## Run 5: Report of FillP-Sheep — Data Link

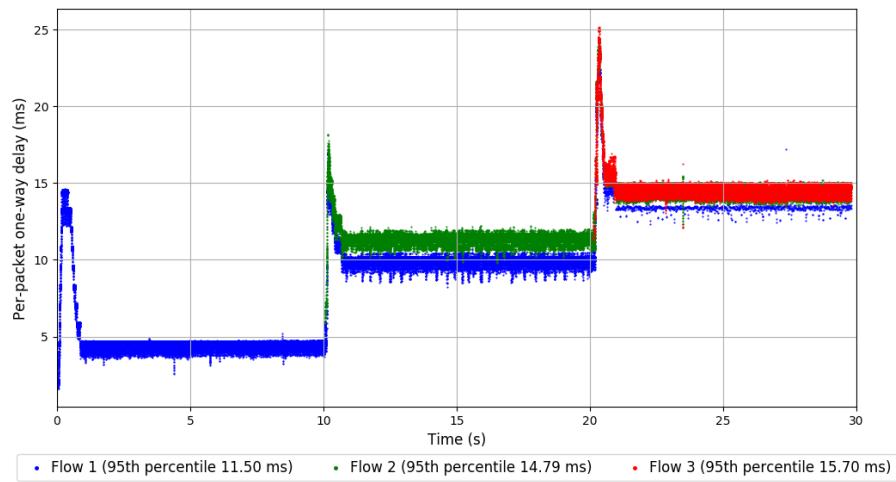
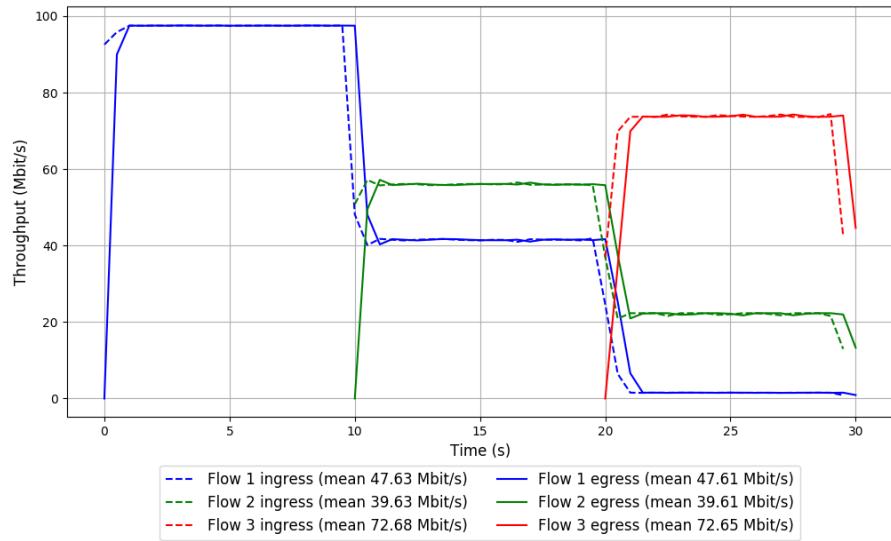


Run 1: Statistics of Indigo

```
Start at: 2019-01-17 12:17:26
End at: 2019-01-17 12:17:56
Local clock offset: -6.886 ms
Remote clock offset: 1.498 ms

# Below is generated by plot.py at 2019-01-17 14:12:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 14.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.61 Mbit/s
95th percentile per-packet one-way delay: 11.503 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 14.788 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.65 Mbit/s
95th percentile per-packet one-way delay: 15.699 ms
Loss rate: 0.02%
```

## Run 1: Report of Indigo — Data Link

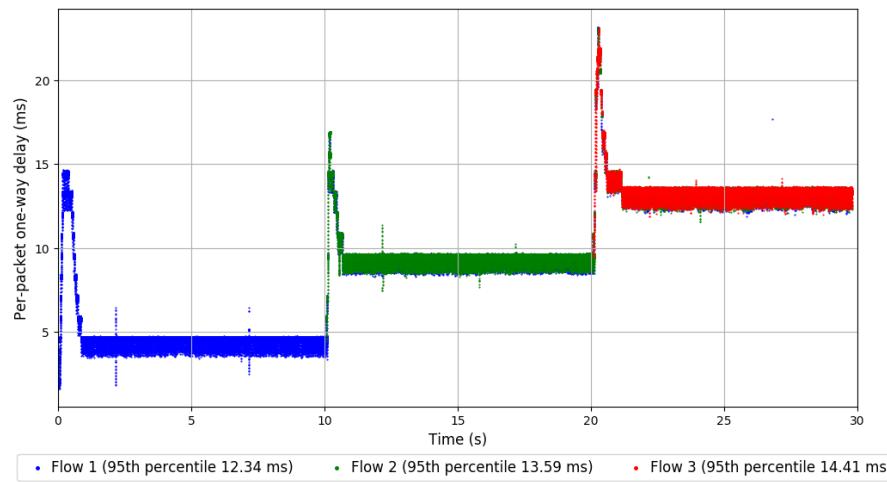
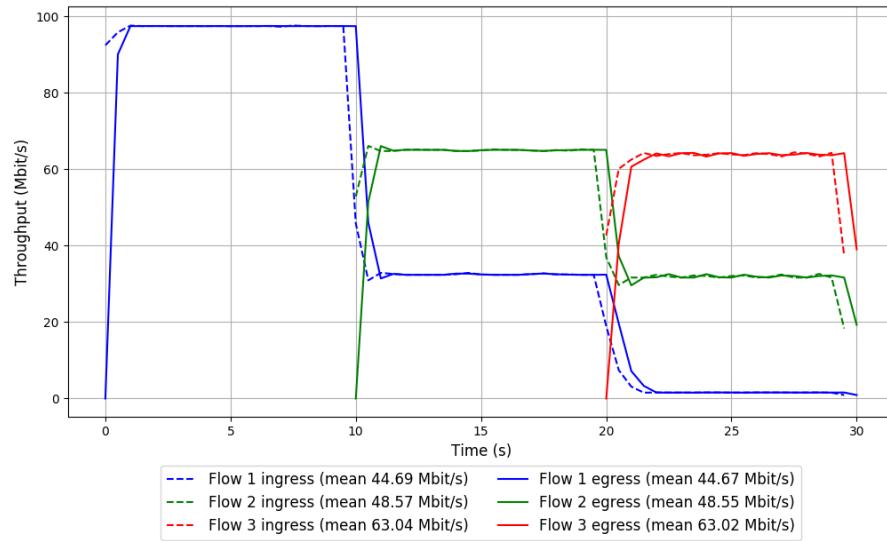


Run 2: Statistics of Indigo

```
Start at: 2019-01-17 12:41:21
End at: 2019-01-17 12:41:51
Local clock offset: -5.646 ms
Remote clock offset: 1.356 ms

# Below is generated by plot.py at 2019-01-17 14:12:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 13.581 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.67 Mbit/s
95th percentile per-packet one-way delay: 12.341 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 13.585 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.02 Mbit/s
95th percentile per-packet one-way delay: 14.407 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo — Data Link

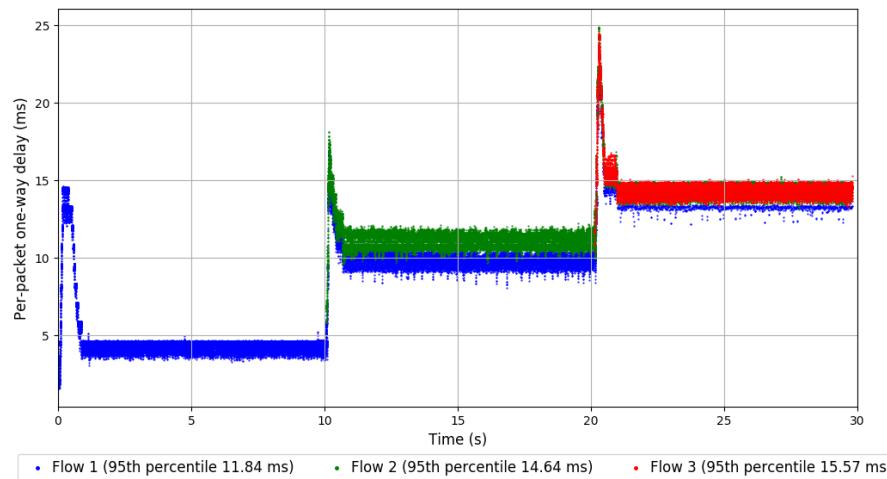
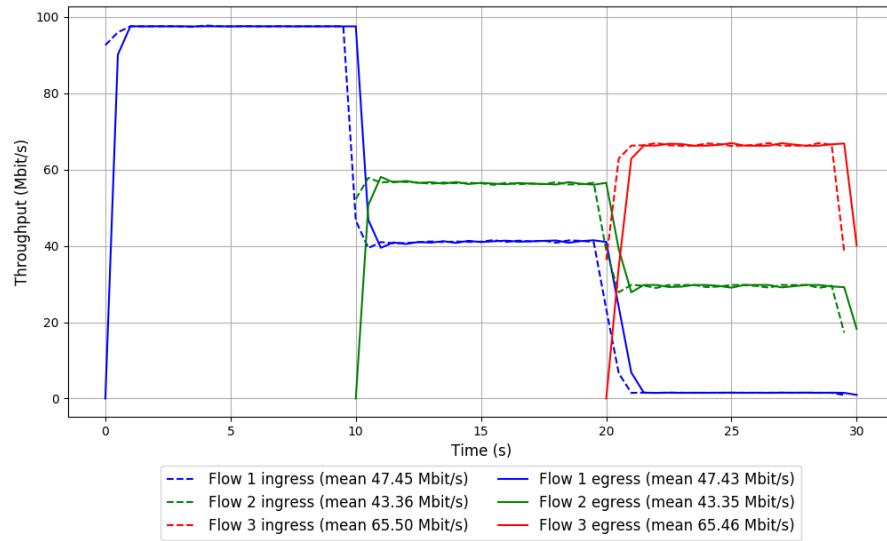


Run 3: Statistics of Indigo

```
Start at: 2019-01-17 13:05:15
End at: 2019-01-17 13:05:45
Local clock offset: -4.655 ms
Remote clock offset: 1.272 ms

# Below is generated by plot.py at 2019-01-17 14:12:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 14.640 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 47.43 Mbit/s
95th percentile per-packet one-way delay: 11.836 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 43.35 Mbit/s
95th percentile per-packet one-way delay: 14.642 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.46 Mbit/s
95th percentile per-packet one-way delay: 15.575 ms
Loss rate: 0.02%
```

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

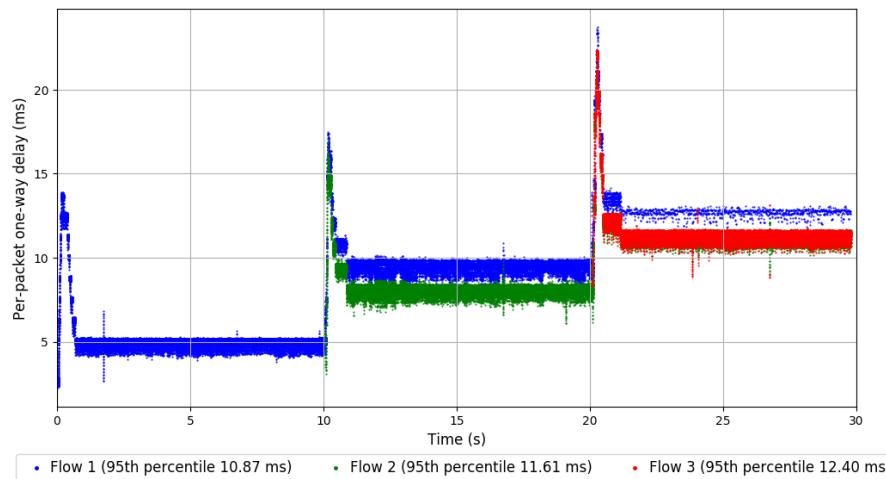
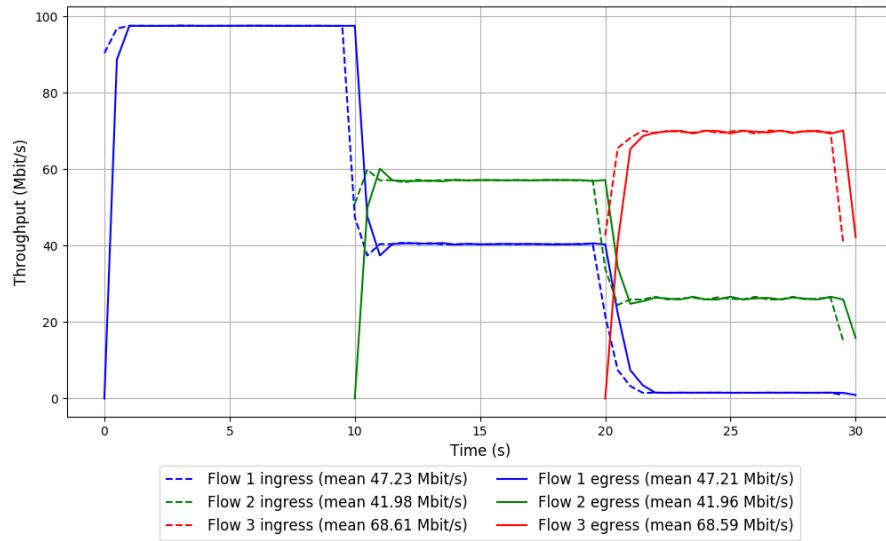


Run 4: Statistics of Indigo

```
Start at: 2019-01-17 13:29:10
End at: 2019-01-17 13:29:40
Local clock offset: -4.478 ms
Remote clock offset: 1.505 ms

# Below is generated by plot.py at 2019-01-17 14:13:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 12.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.21 Mbit/s
95th percentile per-packet one-way delay: 10.867 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.96 Mbit/s
95th percentile per-packet one-way delay: 11.606 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.59 Mbit/s
95th percentile per-packet one-way delay: 12.397 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

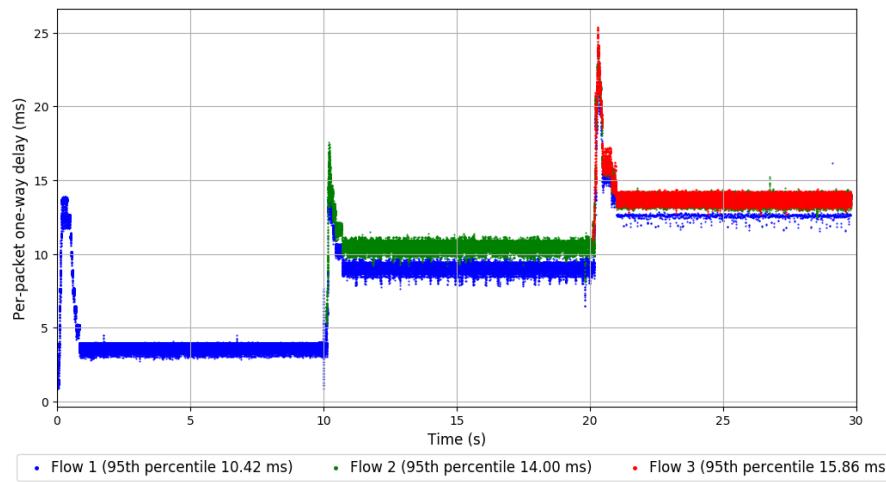
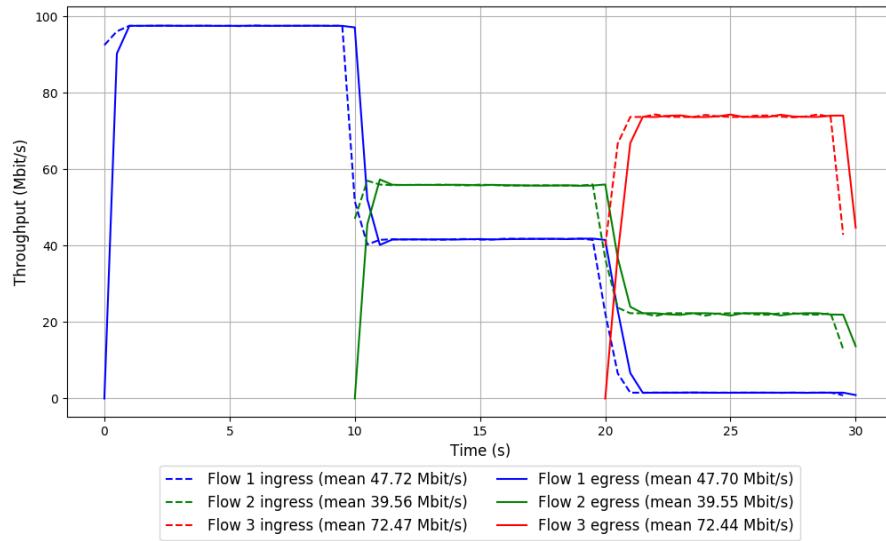


Run 5: Statistics of Indigo

```
Start at: 2019-01-17 13:53:05
End at: 2019-01-17 13:53:35
Local clock offset: -4.214 ms
Remote clock offset: 1.612 ms

# Below is generated by plot.py at 2019-01-17 14:13:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 13.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.70 Mbit/s
95th percentile per-packet one-way delay: 10.421 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.55 Mbit/s
95th percentile per-packet one-way delay: 14.000 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.44 Mbit/s
95th percentile per-packet one-way delay: 15.862 ms
Loss rate: 0.01%
```

## Run 5: Report of Indigo — Data Link

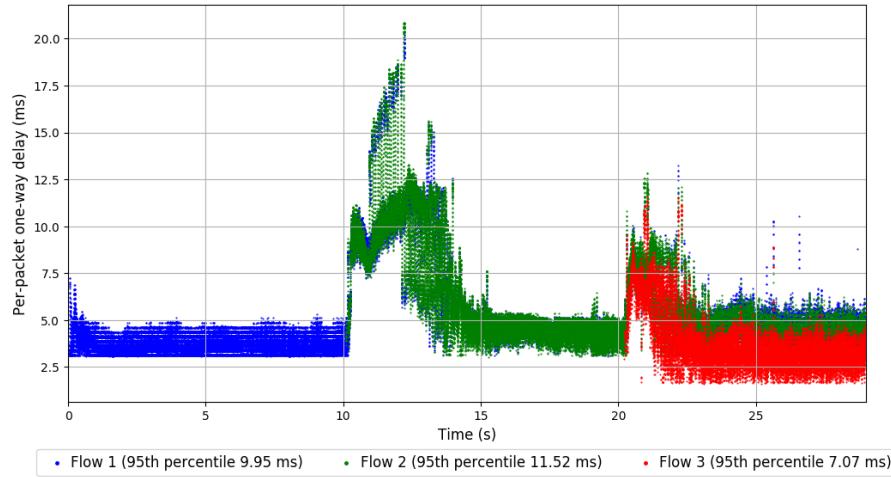
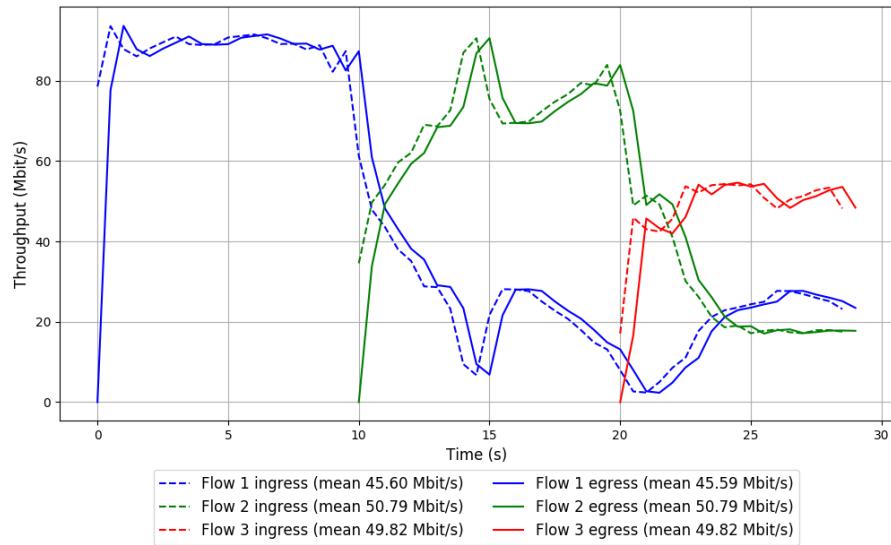


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 12:25:26
End at: 2019-01-17 12:25:56
Local clock offset: -5.754 ms
Remote clock offset: 1.373 ms

# Below is generated by plot.py at 2019-01-17 14:13:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 10.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.59 Mbit/s
95th percentile per-packet one-way delay: 9.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.79 Mbit/s
95th percentile per-packet one-way delay: 11.521 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.82 Mbit/s
95th percentile per-packet one-way delay: 7.067 ms
Loss rate: 0.00%
```

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

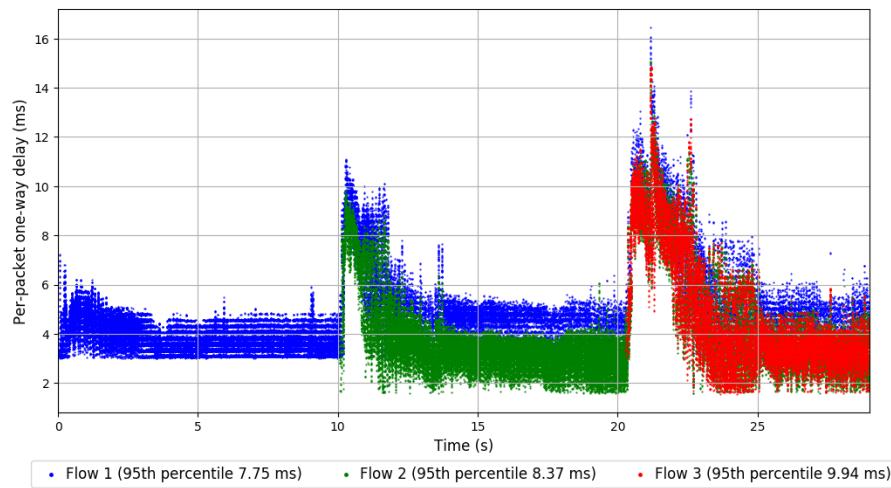
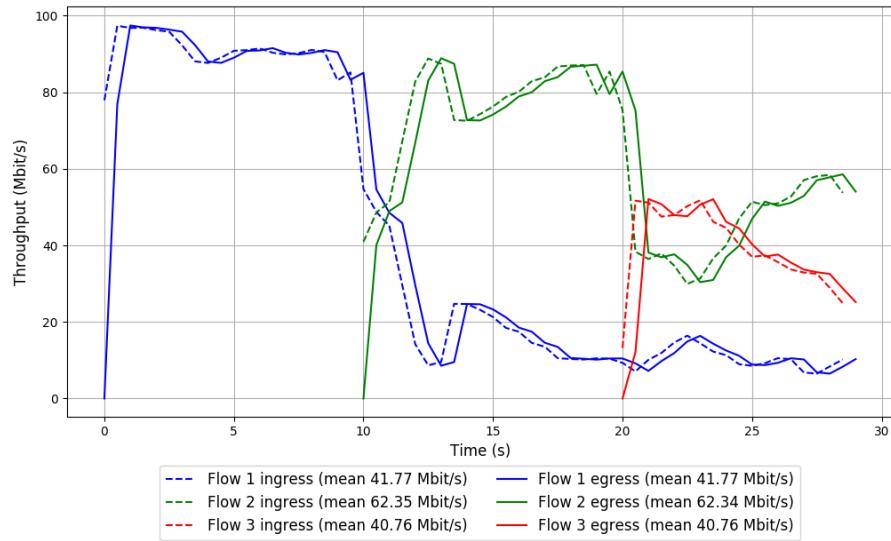


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 12:49:20
End at: 2019-01-17 12:49:50
Local clock offset: -5.513 ms
Remote clock offset: 1.217 ms

# Below is generated by plot.py at 2019-01-17 14:13:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.64 Mbit/s
95th percentile per-packet one-way delay: 8.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.77 Mbit/s
95th percentile per-packet one-way delay: 7.745 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.34 Mbit/s
95th percentile per-packet one-way delay: 8.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.76 Mbit/s
95th percentile per-packet one-way delay: 9.941 ms
Loss rate: 0.00%
```

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

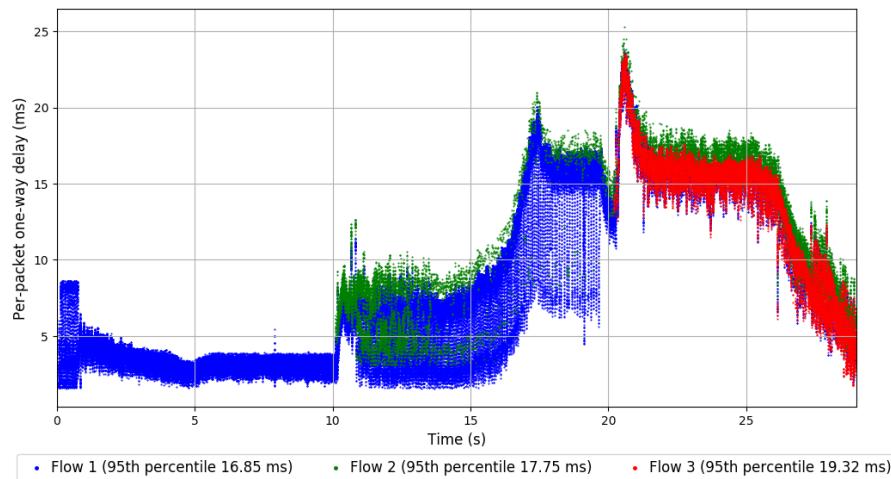
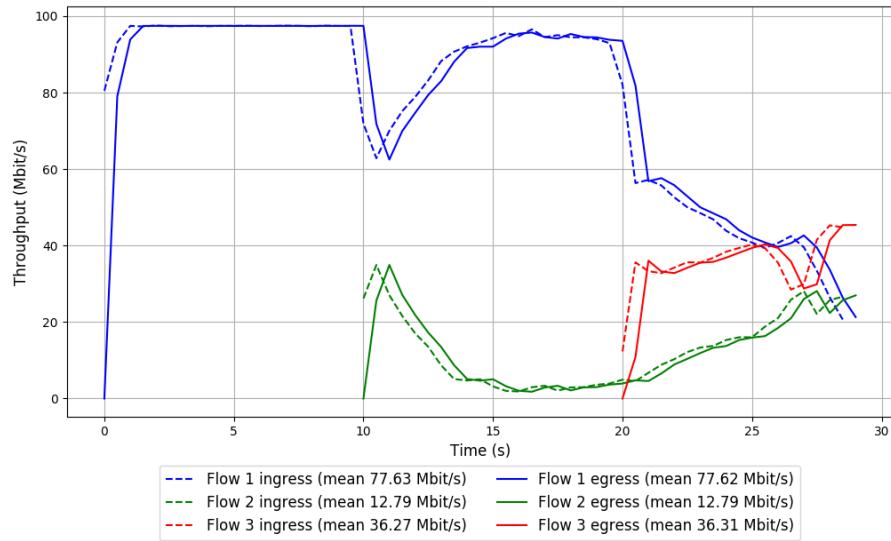


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 13:13:14
End at: 2019-01-17 13:13:44
Local clock offset: -4.747 ms
Remote clock offset: 1.315 ms

# Below is generated by plot.py at 2019-01-17 14:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.98 Mbit/s
95th percentile per-packet one-way delay: 17.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.62 Mbit/s
95th percentile per-packet one-way delay: 16.852 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 17.750 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 19.325 ms
Loss rate: 0.00%
```

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

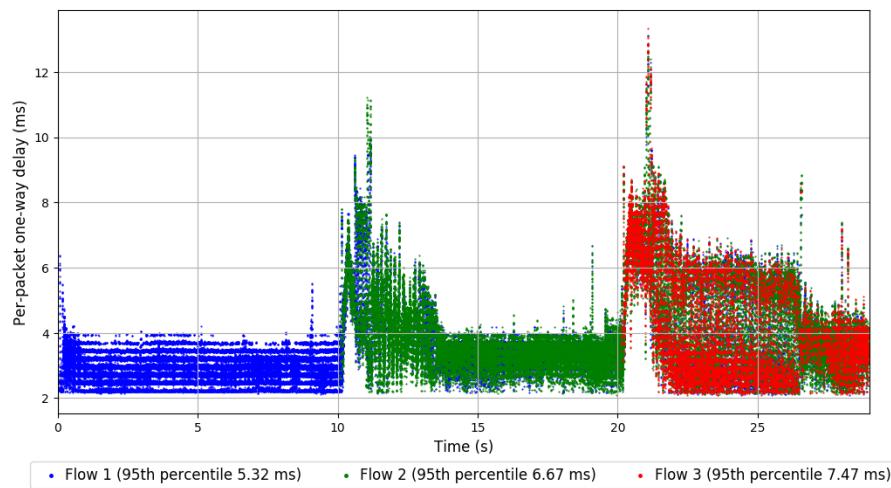
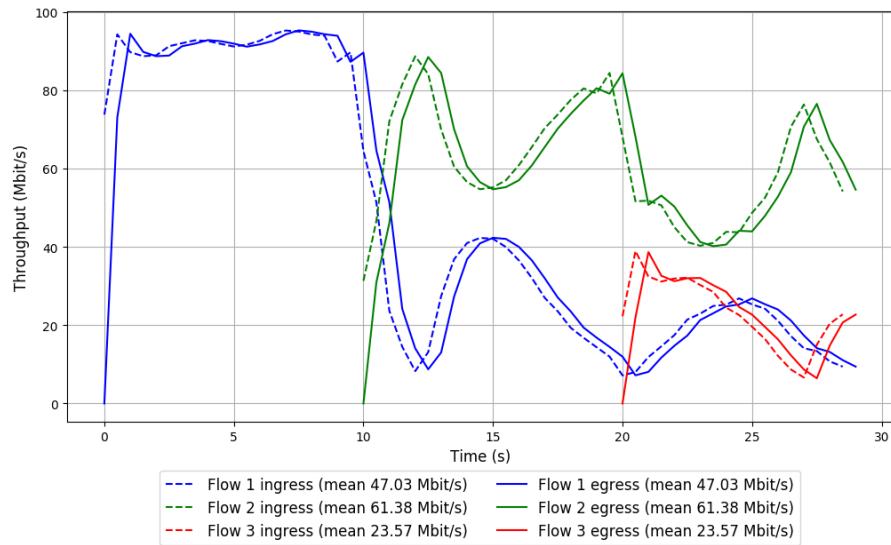


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 13:37:08
End at: 2019-01-17 13:37:38
Local clock offset: -4.681 ms
Remote clock offset: 1.44 ms

# Below is generated by plot.py at 2019-01-17 14:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 6.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.03 Mbit/s
95th percentile per-packet one-way delay: 5.323 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.38 Mbit/s
95th percentile per-packet one-way delay: 6.669 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 7.475 ms
Loss rate: 0.03%
```

Run 4: Report of Indigo-MusesC3 — Data Link

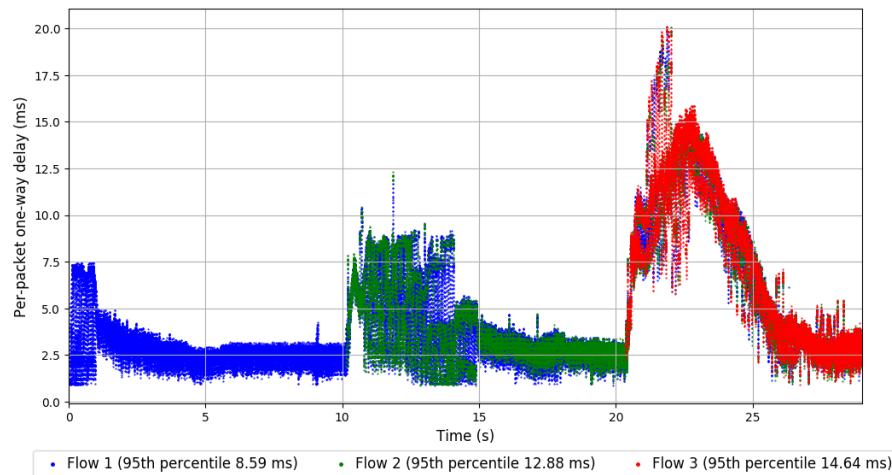
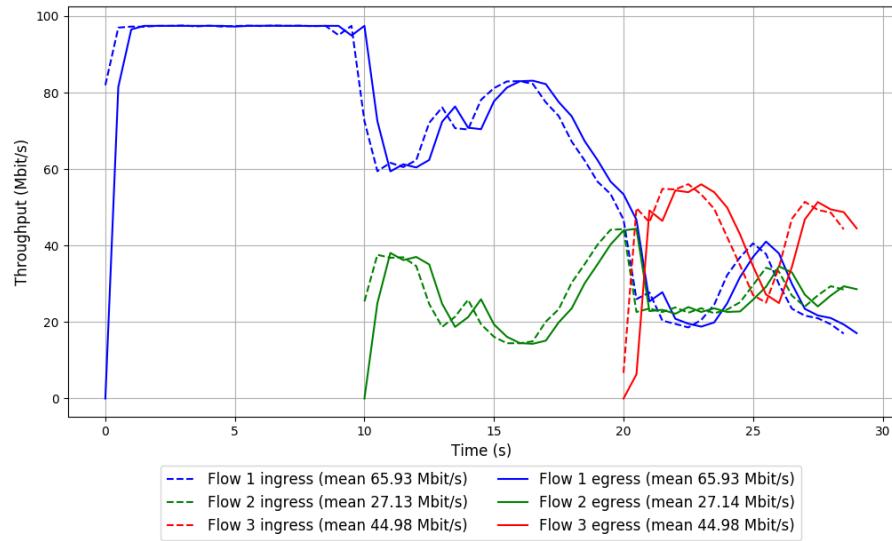


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-17 14:01:03
End at: 2019-01-17 14:01:33
Local clock offset: -3.886 ms
Remote clock offset: 1.447 ms

# Below is generated by plot.py at 2019-01-17 14:14:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 12.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.93 Mbit/s
95th percentile per-packet one-way delay: 8.589 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 12.880 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.98 Mbit/s
95th percentile per-packet one-way delay: 14.645 ms
Loss rate: 0.00%
```

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

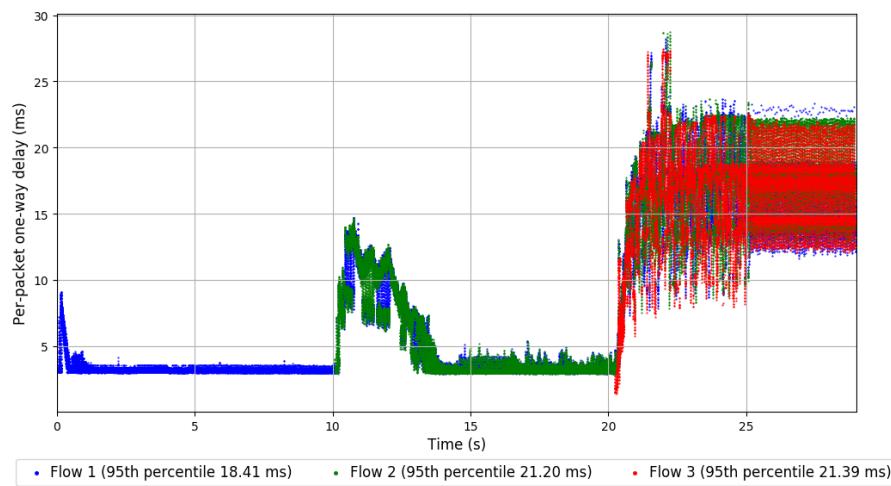
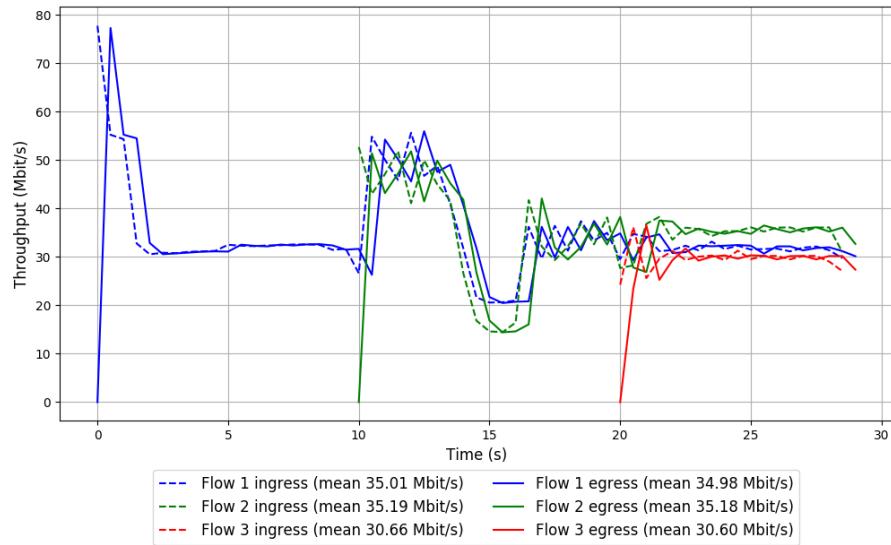


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 12:09:25
End at: 2019-01-17 12:09:55
Local clock offset: -5.733 ms
Remote clock offset: 1.527 ms

# Below is generated by plot.py at 2019-01-17 14:14:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.12 Mbit/s
95th percentile per-packet one-way delay: 20.397 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 34.98 Mbit/s
95th percentile per-packet one-way delay: 18.406 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 35.18 Mbit/s
95th percentile per-packet one-way delay: 21.198 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.60 Mbit/s
95th percentile per-packet one-way delay: 21.393 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

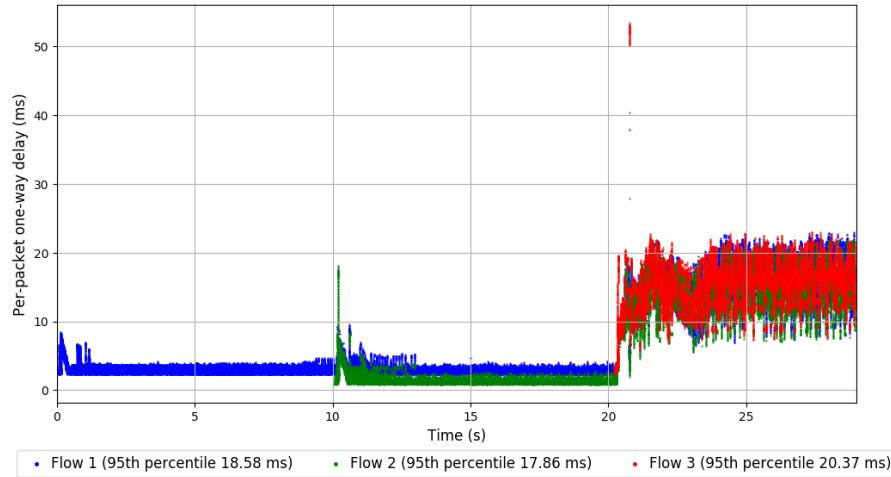
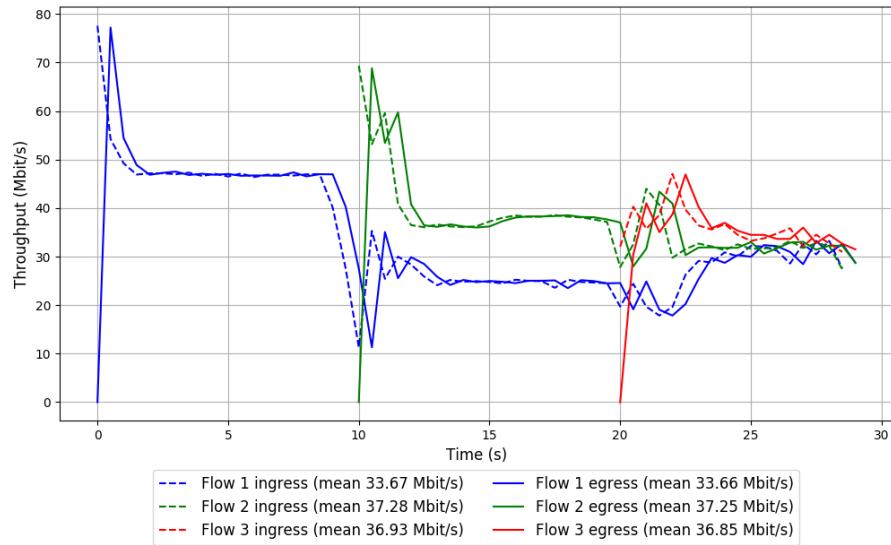


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 12:33:19
End at: 2019-01-17 12:33:49
Local clock offset: -4.678 ms
Remote clock offset: 1.453 ms

# Below is generated by plot.py at 2019-01-17 14:14:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.08 Mbit/s
95th percentile per-packet one-way delay: 19.122 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 33.66 Mbit/s
95th percentile per-packet one-way delay: 18.582 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.25 Mbit/s
95th percentile per-packet one-way delay: 17.863 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 20.369 ms
Loss rate: 0.06%
```

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

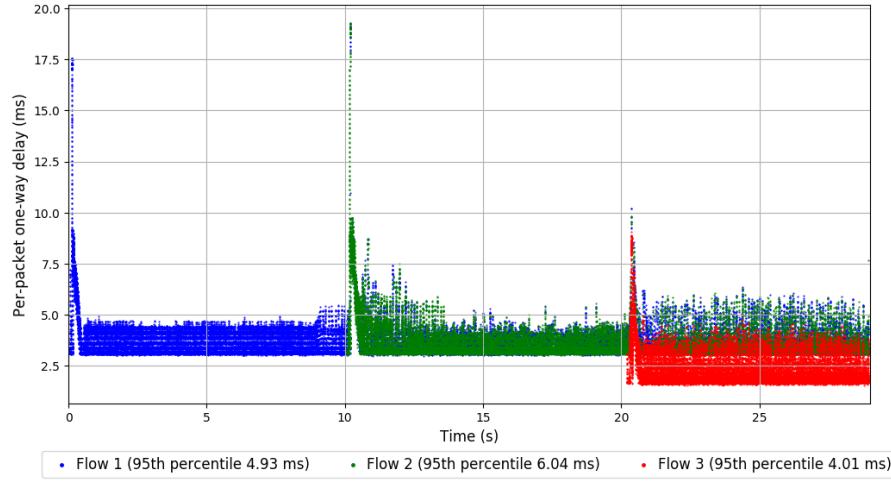
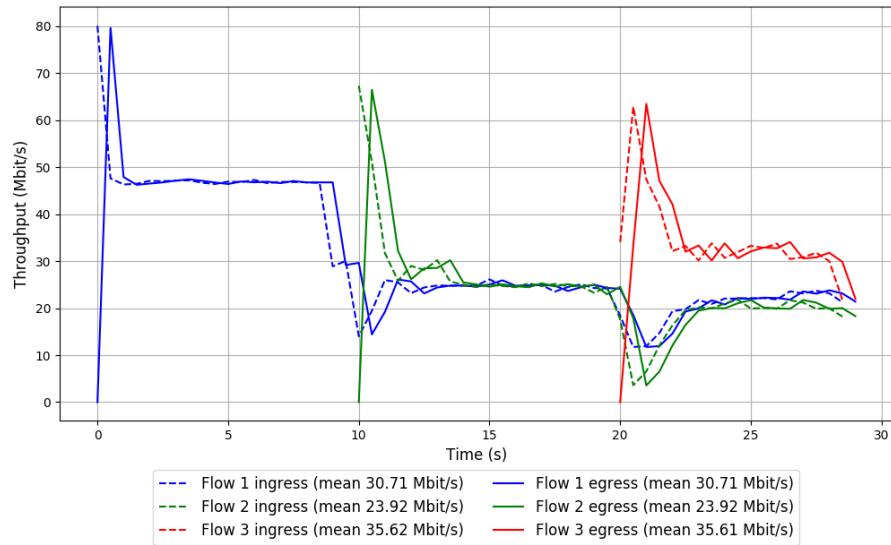


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 12:57:14
End at: 2019-01-17 12:57:44
Local clock offset: -4.794 ms
Remote clock offset: 1.296 ms

# Below is generated by plot.py at 2019-01-17 14:14:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.07 Mbit/s
95th percentile per-packet one-way delay: 5.186 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.71 Mbit/s
95th percentile per-packet one-way delay: 4.933 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.92 Mbit/s
95th percentile per-packet one-way delay: 6.036 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 4.015 ms
Loss rate: 0.00%
```

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

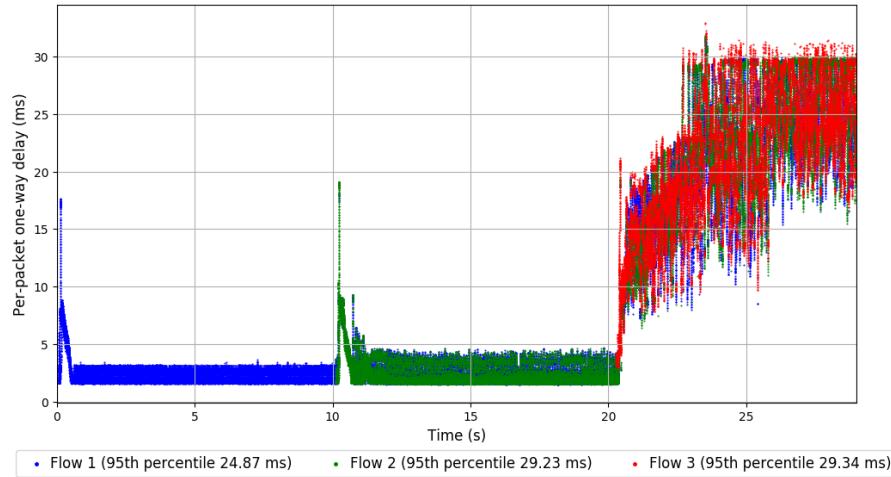
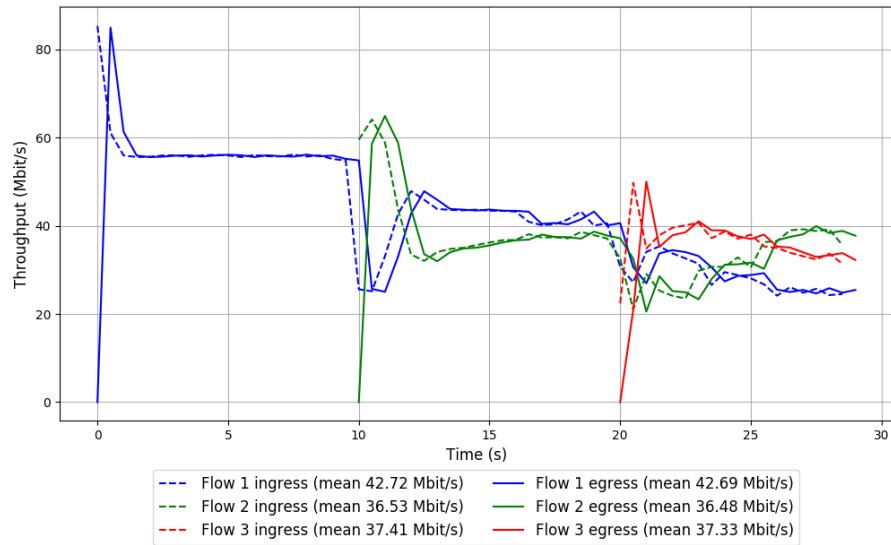


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 13:21:08
End at: 2019-01-17 13:21:39
Local clock offset: -4.942 ms
Remote clock offset: 1.38 ms

# Below is generated by plot.py at 2019-01-17 14:14:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 28.222 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 24.874 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.48 Mbit/s
95th percentile per-packet one-way delay: 29.234 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 37.33 Mbit/s
95th percentile per-packet one-way delay: 29.339 ms
Loss rate: 0.02%
```

Run 4: Report of Indigo-MusesC5 — Data Link

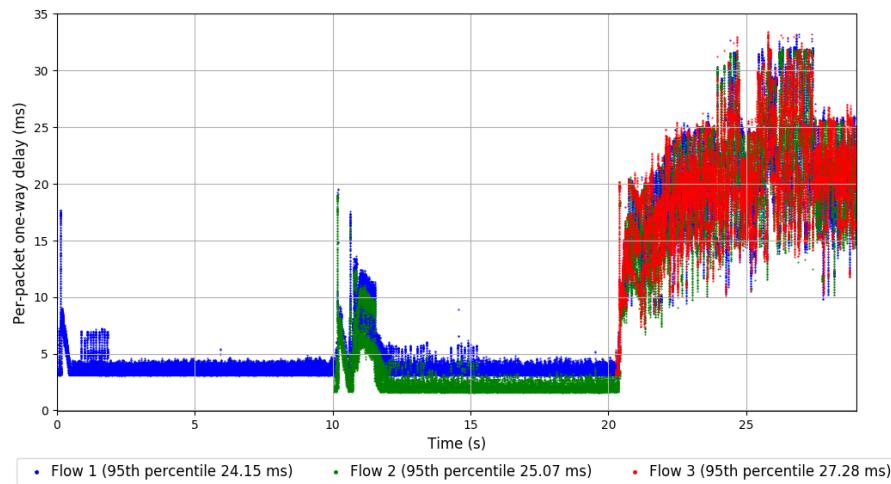
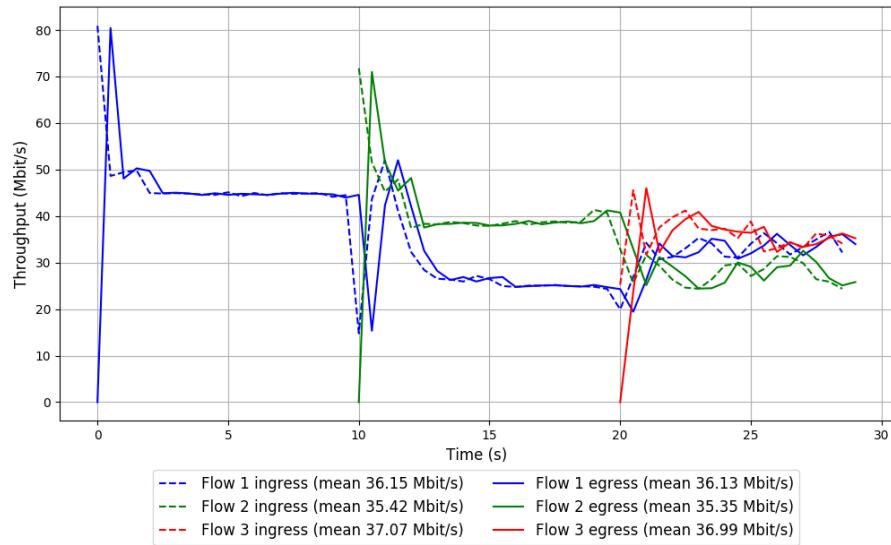


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-17 13:45:03
End at: 2019-01-17 13:45:33
Local clock offset: -5.717 ms
Remote clock offset: 1.606 ms

# Below is generated by plot.py at 2019-01-17 14:14:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 25.256 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 36.13 Mbit/s
95th percentile per-packet one-way delay: 24.150 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.35 Mbit/s
95th percentile per-packet one-way delay: 25.068 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 27.280 ms
Loss rate: 0.04%
```

Run 5: Report of Indigo-MusesC5 — Data Link

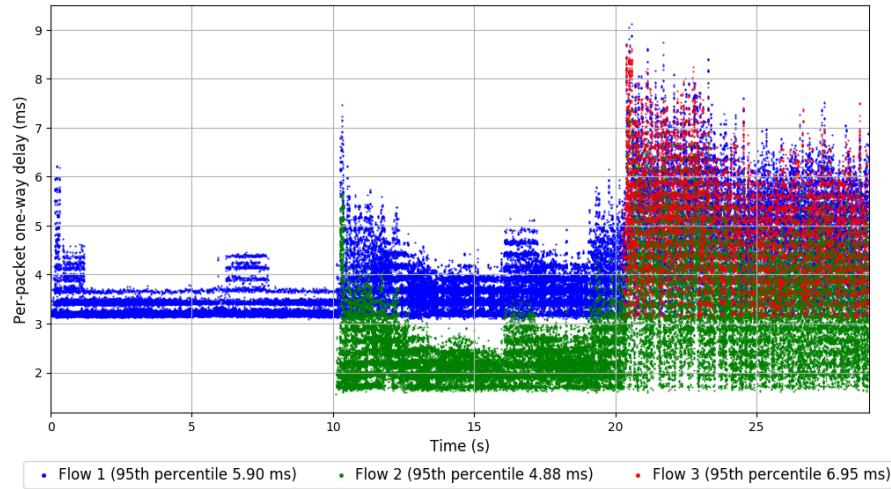
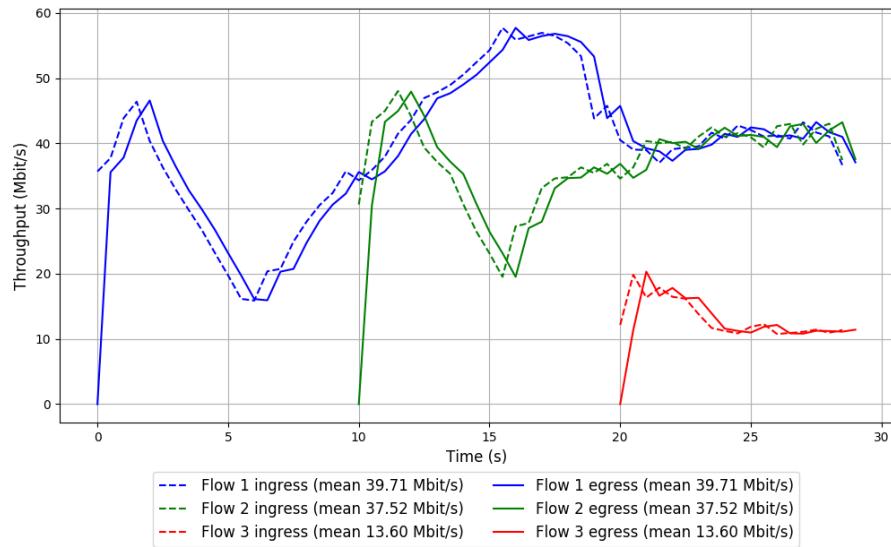


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 12:29:57
End at: 2019-01-17 12:30:27
Local clock offset: -5.532 ms
Remote clock offset: 1.431 ms

# Below is generated by plot.py at 2019-01-17 14:14:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.23 Mbit/s
95th percentile per-packet one-way delay: 5.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.71 Mbit/s
95th percentile per-packet one-way delay: 5.898 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 4.885 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 6.952 ms
Loss rate: 0.00%
```

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

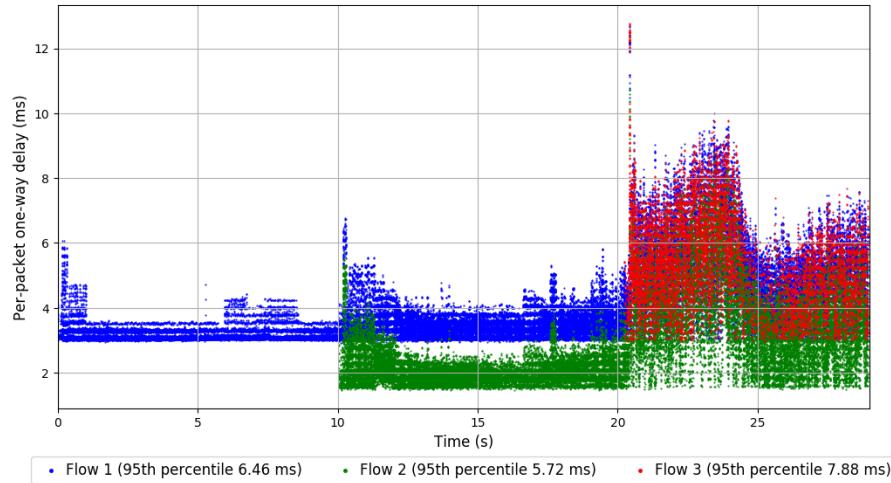
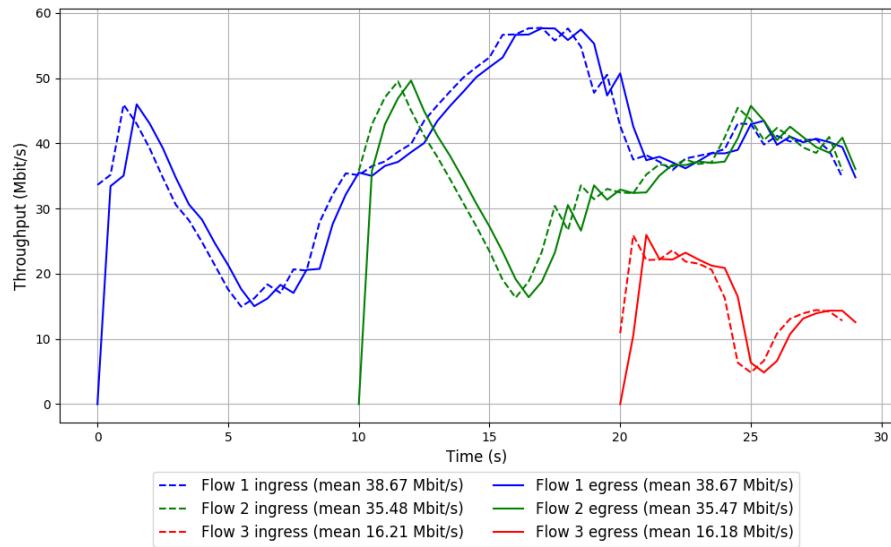


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 12:53:51
End at: 2019-01-17 12:54:21
Local clock offset: -5.019 ms
Remote clock offset: 1.209 ms

# Below is generated by plot.py at 2019-01-17 14:14:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.70 Mbit/s
95th percentile per-packet one-way delay: 6.513 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 38.67 Mbit/s
95th percentile per-packet one-way delay: 6.462 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 5.717 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.18 Mbit/s
95th percentile per-packet one-way delay: 7.878 ms
Loss rate: 0.11%
```

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

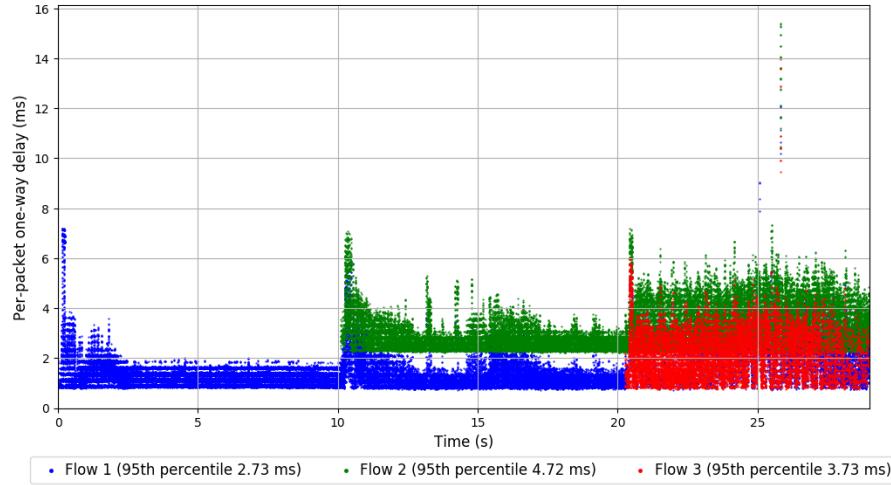
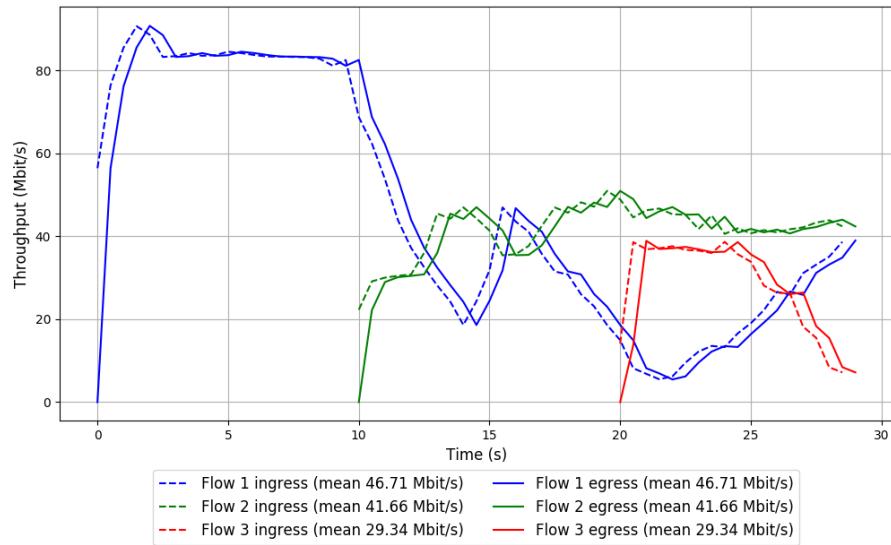


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 13:17:45
End at: 2019-01-17 13:18:15
Local clock offset: -4.101 ms
Remote clock offset: 1.314 ms

# Below is generated by plot.py at 2019-01-17 14:14:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.67 Mbit/s
95th percentile per-packet one-way delay: 4.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.71 Mbit/s
95th percentile per-packet one-way delay: 2.726 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.66 Mbit/s
95th percentile per-packet one-way delay: 4.722 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 3.732 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesD — Data Link

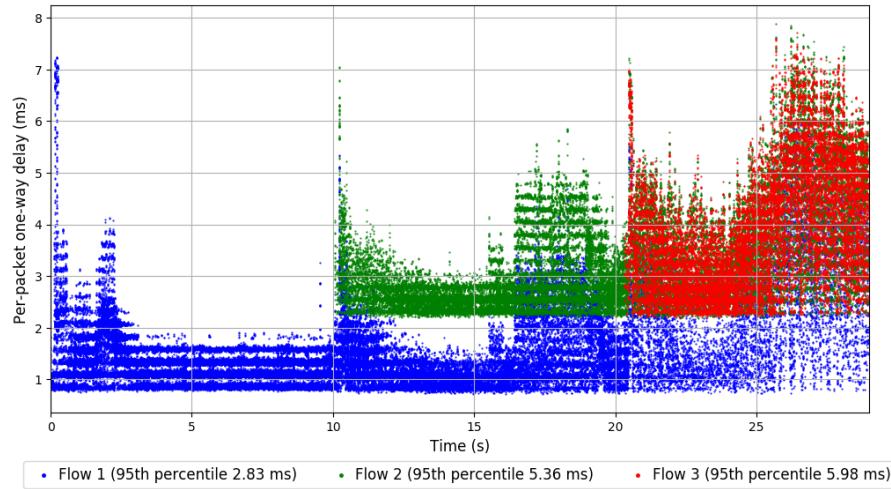
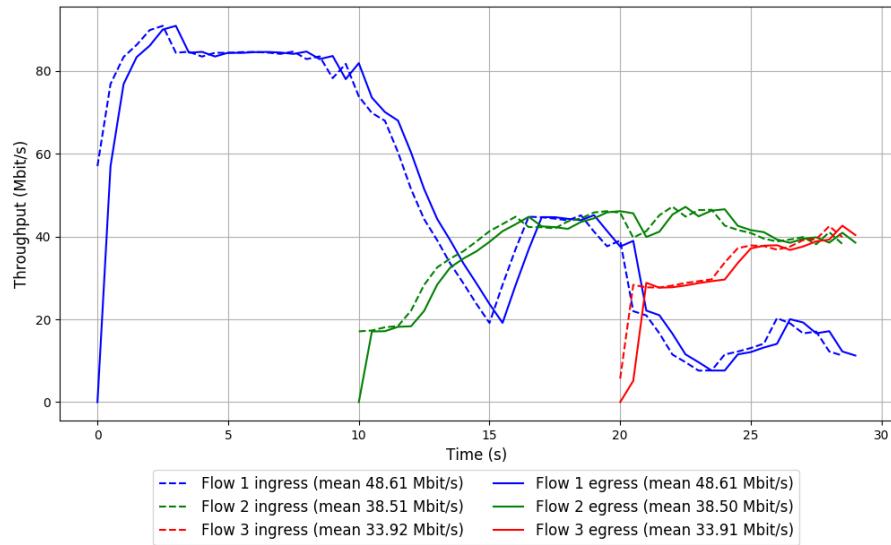


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 13:41:39
End at: 2019-01-17 13:42:09
Local clock offset: -4.817 ms
Remote clock offset: 1.556 ms

# Below is generated by plot.py at 2019-01-17 14:14:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 4.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.61 Mbit/s
95th percentile per-packet one-way delay: 2.833 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 5.363 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 5.982 ms
Loss rate: 0.00%
```

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

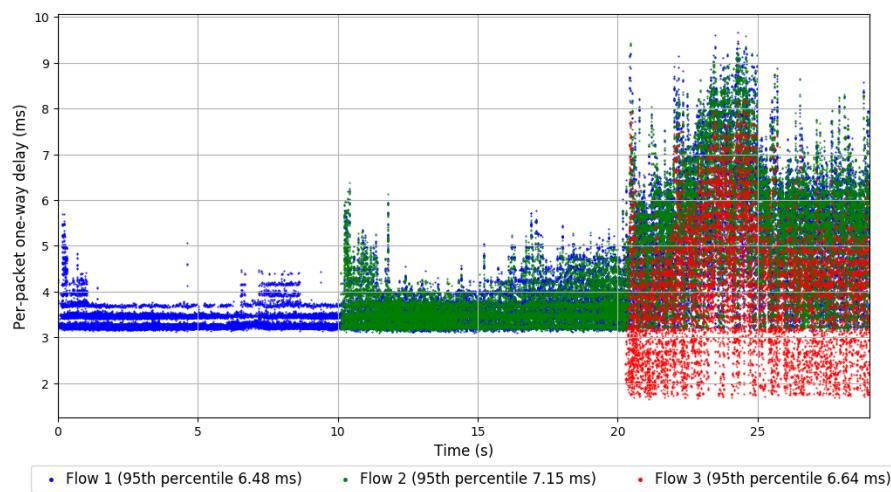
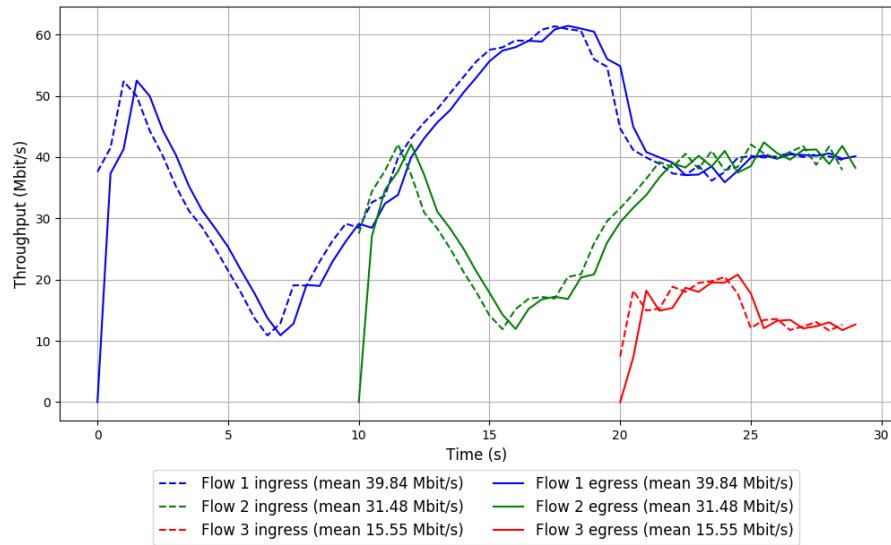


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-17 14:05:34
End at: 2019-01-17 14:06:04
Local clock offset: -4.496 ms
Remote clock offset: 1.465 ms

# Below is generated by plot.py at 2019-01-17 14:14:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 6.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 6.477 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.48 Mbit/s
95th percentile per-packet one-way delay: 7.149 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 6.644 ms
Loss rate: 0.00%
```

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

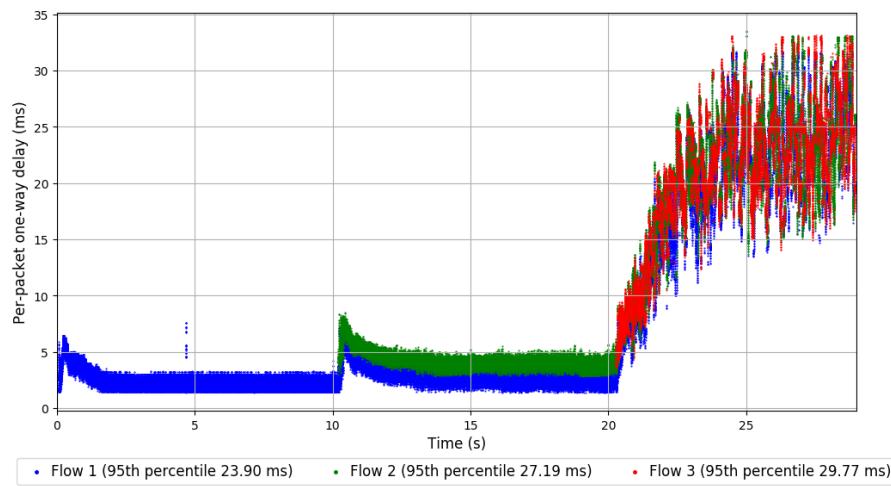
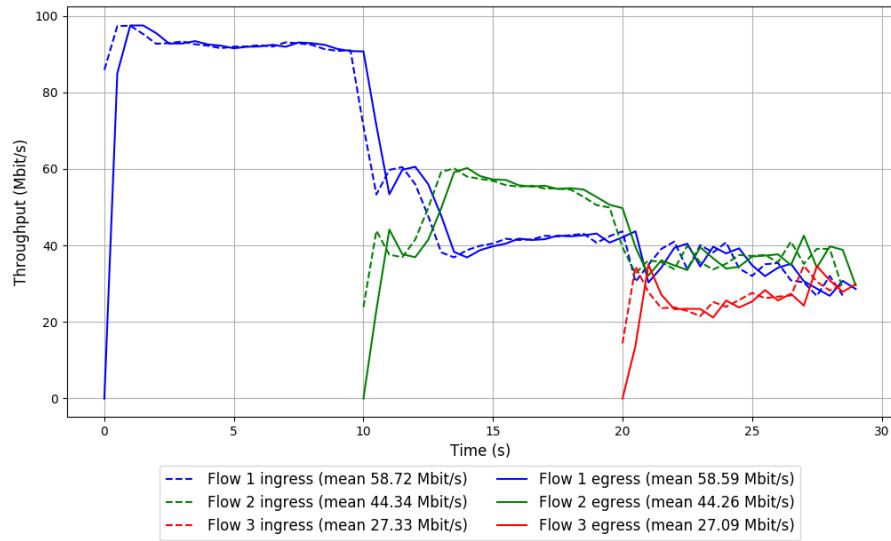


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 12:11:43
End at: 2019-01-17 12:12:13
Local clock offset: -6.14 ms
Remote clock offset: 1.408 ms

# Below is generated by plot.py at 2019-01-17 14:15:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 26.272 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 58.59 Mbit/s
95th percentile per-packet one-way delay: 23.898 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 44.26 Mbit/s
95th percentile per-packet one-way delay: 27.194 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 27.09 Mbit/s
95th percentile per-packet one-way delay: 29.769 ms
Loss rate: 0.65%
```

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

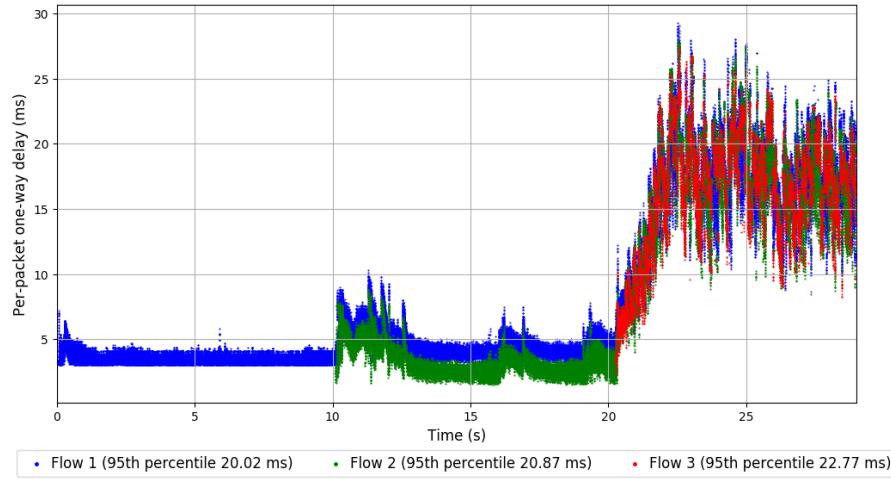
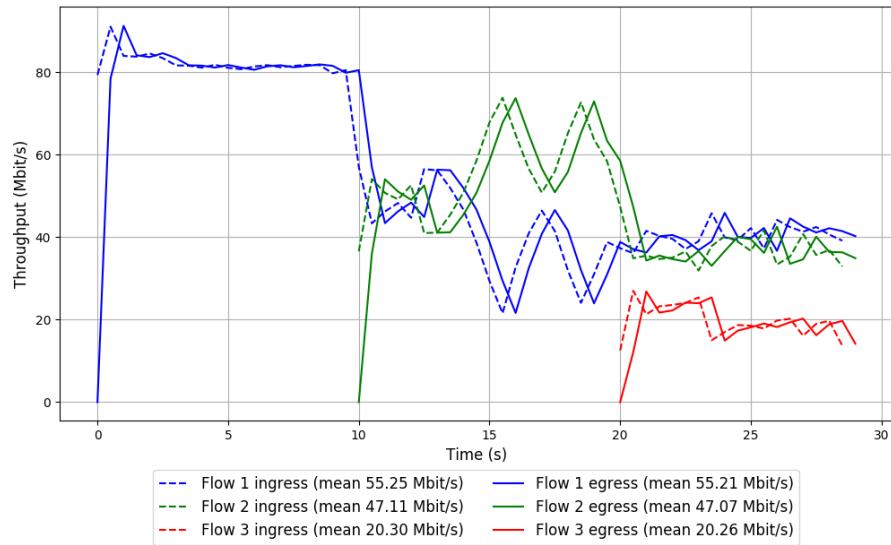


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 12:35:37
End at: 2019-01-17 12:36:07
Local clock offset: -5.443 ms
Remote clock offset: 1.387 ms

# Below is generated by plot.py at 2019-01-17 14:15:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.97 Mbit/s
95th percentile per-packet one-way delay: 20.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.21 Mbit/s
95th percentile per-packet one-way delay: 20.022 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.07 Mbit/s
95th percentile per-packet one-way delay: 20.867 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 22.775 ms
Loss rate: 0.00%
```

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

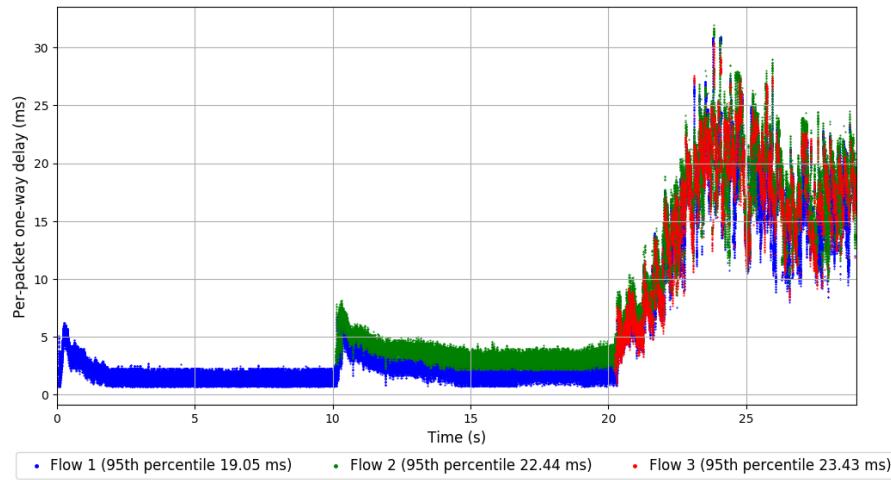
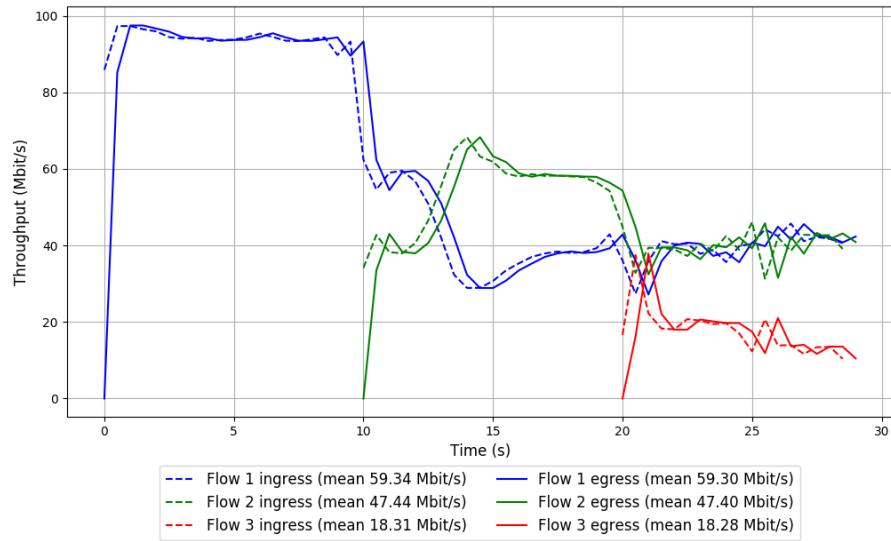


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 12:59:32
End at: 2019-01-17 13:00:02
Local clock offset: -3.956 ms
Remote clock offset: 1.14 ms

# Below is generated by plot.py at 2019-01-17 14:15:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 21.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 19.048 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 22.437 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.28 Mbit/s
95th percentile per-packet one-way delay: 23.428 ms
Loss rate: 0.00%
```

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

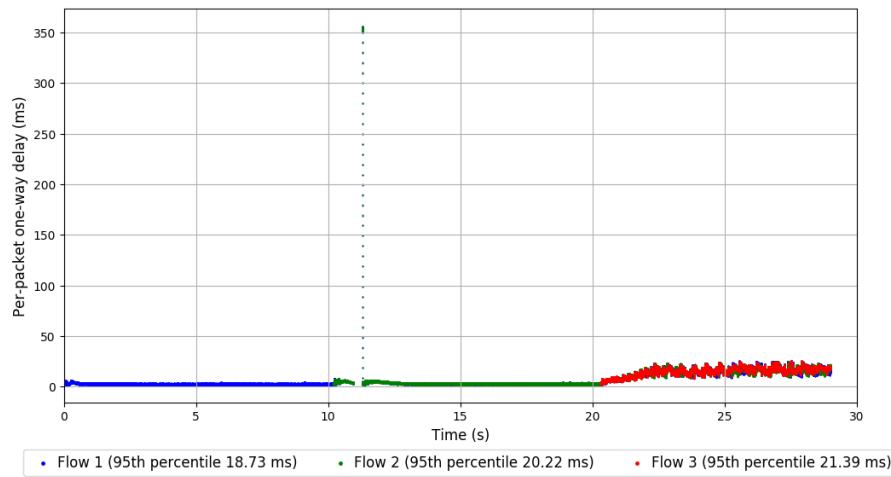
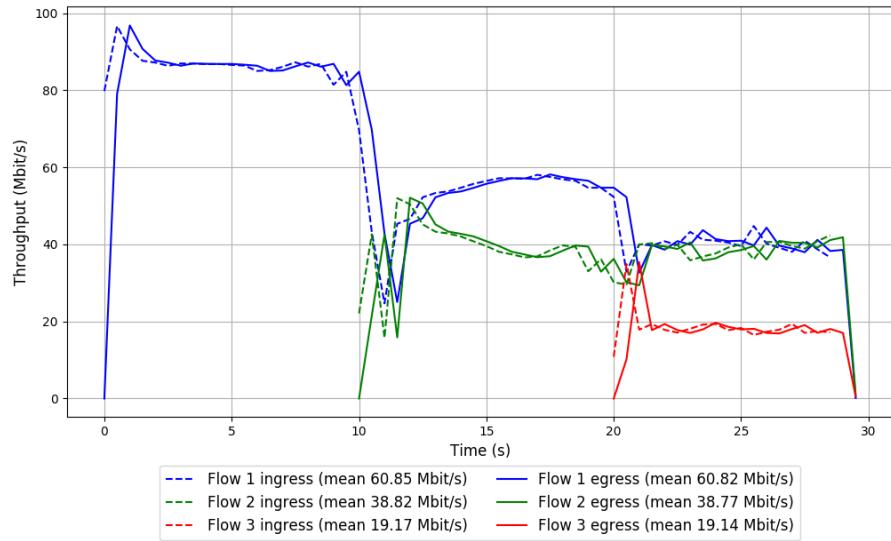


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 13:23:27
End at: 2019-01-17 13:23:57
Local clock offset: -4.324 ms
Remote clock offset: 1.273 ms

# Below is generated by plot.py at 2019-01-17 14:15:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.71 Mbit/s
95th percentile per-packet one-way delay: 19.696 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.82 Mbit/s
95th percentile per-packet one-way delay: 18.729 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 20.219 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 21.393 ms
Loss rate: 0.00%
```

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

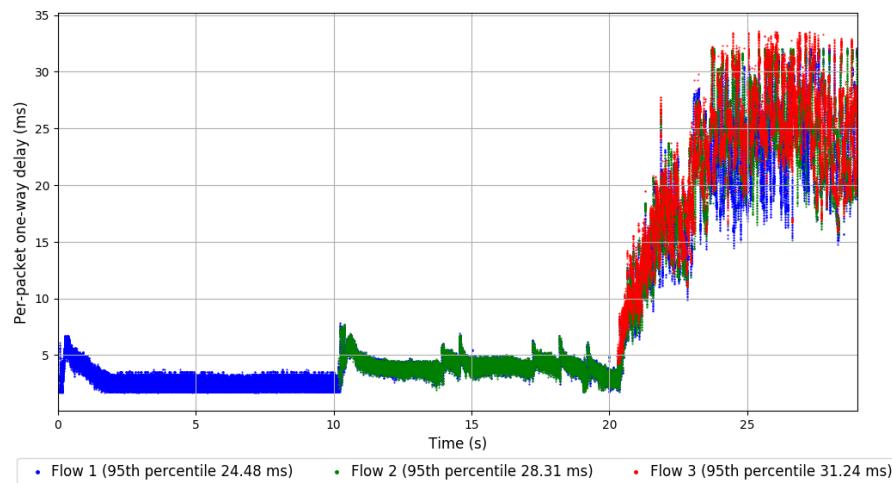
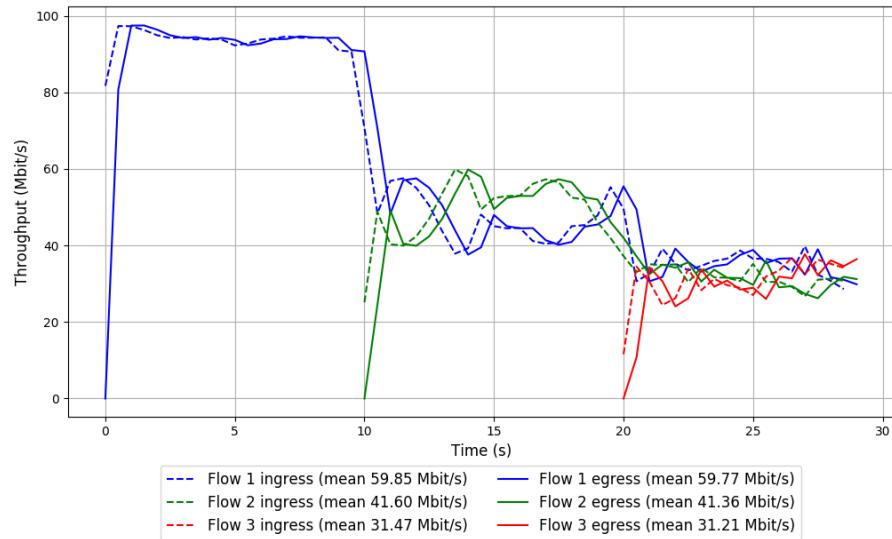


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-17 13:47:21
End at: 2019-01-17 13:47:51
Local clock offset: -5.78 ms
Remote clock offset: 1.612 ms

# Below is generated by plot.py at 2019-01-17 14:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 27.438 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 59.77 Mbit/s
95th percentile per-packet one-way delay: 24.482 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 28.311 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 31.243 ms
Loss rate: 0.56%
```

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

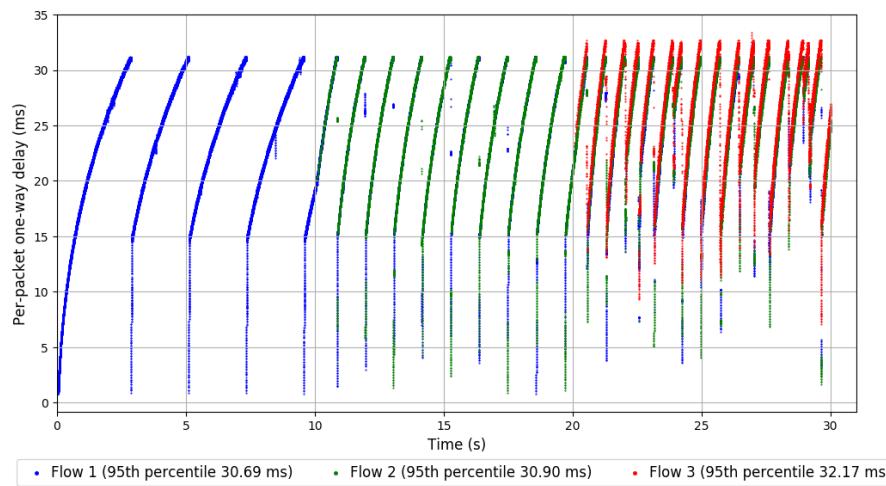
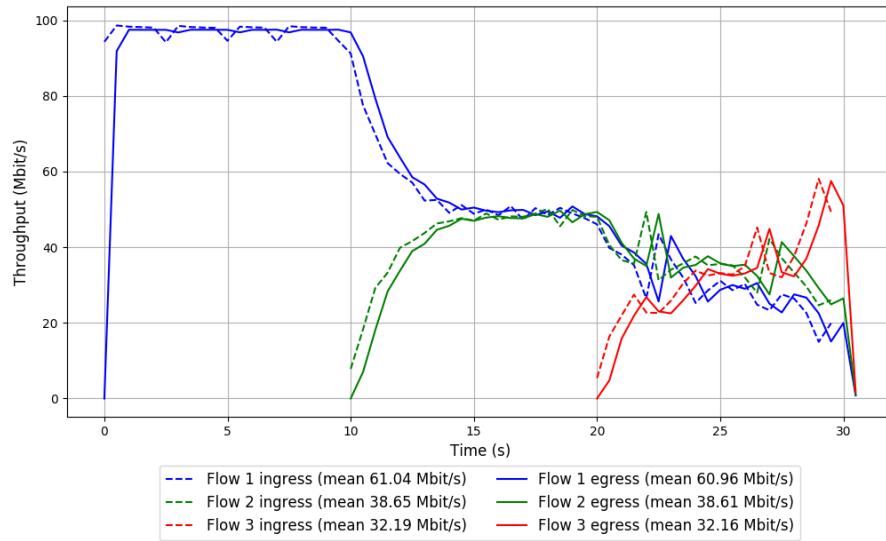


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-17 12:23:07
End at: 2019-01-17 12:23:37
Local clock offset: -5.14 ms
Remote clock offset: 1.429 ms

# Below is generated by plot.py at 2019-01-17 14:15:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 30.925 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 60.96 Mbit/s
95th percentile per-packet one-way delay: 30.692 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 30.897 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 32.171 ms
Loss rate: 0.07%
```

Run 1: Report of LEDBAT — Data Link

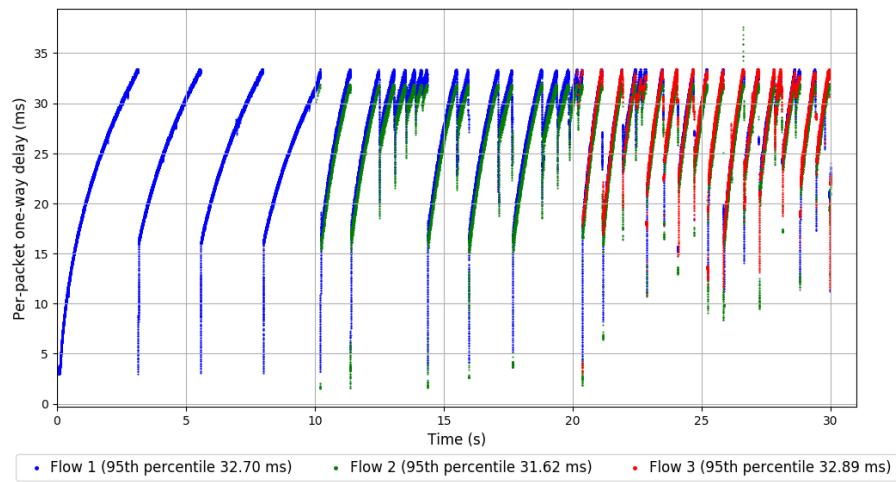
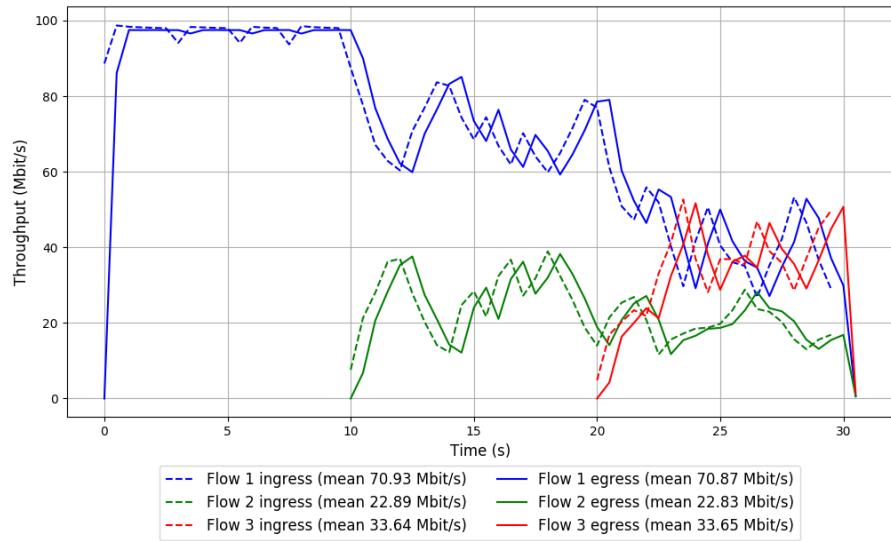


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-17 12:47:01
End at: 2019-01-17 12:47:31
Local clock offset: -5.795 ms
Remote clock offset: 1.28 ms

# Below is generated by plot.py at 2019-01-17 14:15:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 32.653 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 70.87 Mbit/s
95th percentile per-packet one-way delay: 32.699 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 31.622 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 32.893 ms
Loss rate: 0.09%
```

Run 2: Report of LEDBAT — Data Link

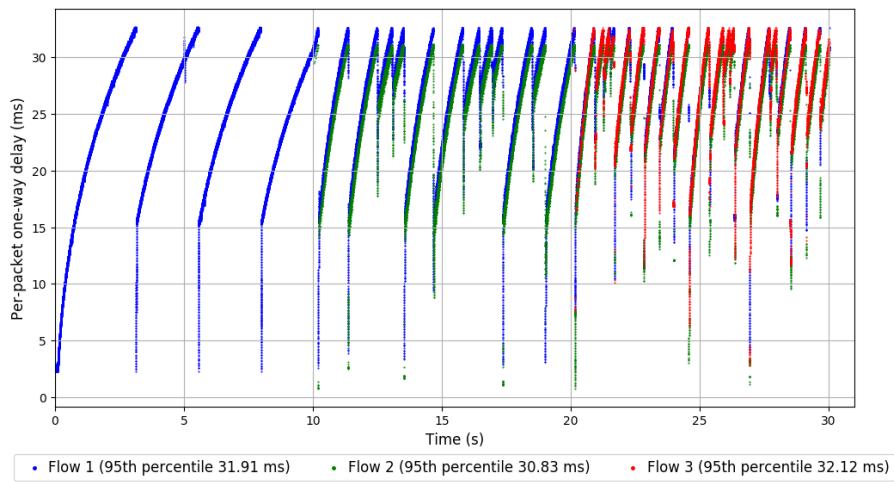
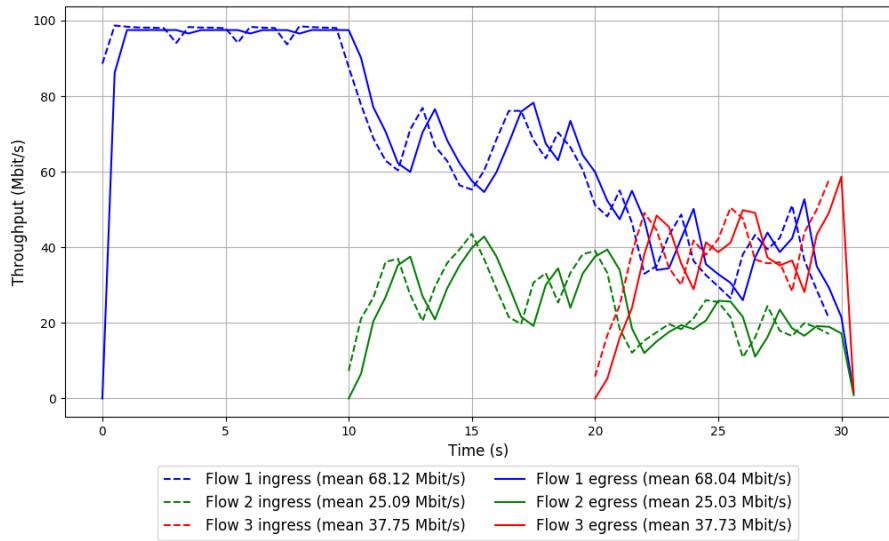


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-17 13:10:55
End at: 2019-01-17 13:11:25
Local clock offset: -3.963 ms
Remote clock offset: 1.241 ms

# Below is generated by plot.py at 2019-01-17 14:16:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 31.874 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 68.04 Mbit/s
95th percentile per-packet one-way delay: 31.912 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 25.03 Mbit/s
95th percentile per-packet one-way delay: 30.833 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 37.73 Mbit/s
95th percentile per-packet one-way delay: 32.119 ms
Loss rate: 0.07%
```

Run 3: Report of LEDBAT — Data Link

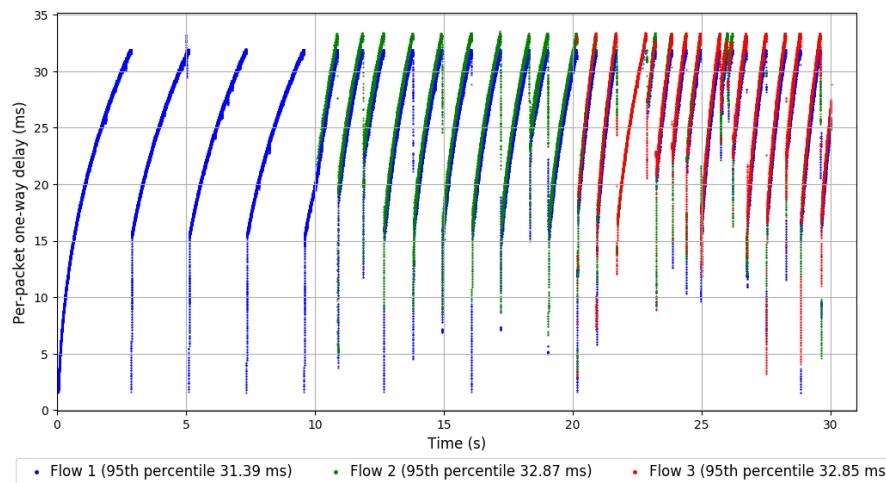
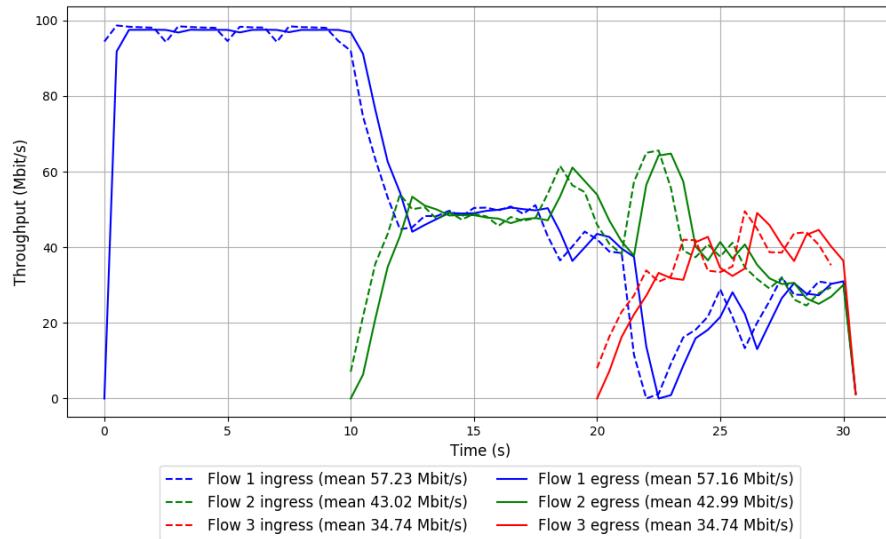


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-17 13:34:50
End at: 2019-01-17 13:35:20
Local clock offset: -5.384 ms
Remote clock offset: 1.524 ms

# Below is generated by plot.py at 2019-01-17 14:16:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 32.140 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 31.393 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 42.99 Mbit/s
95th percentile per-packet one-way delay: 32.865 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 34.74 Mbit/s
95th percentile per-packet one-way delay: 32.851 ms
Loss rate: 0.07%
```

Run 4: Report of LEDBAT — Data Link

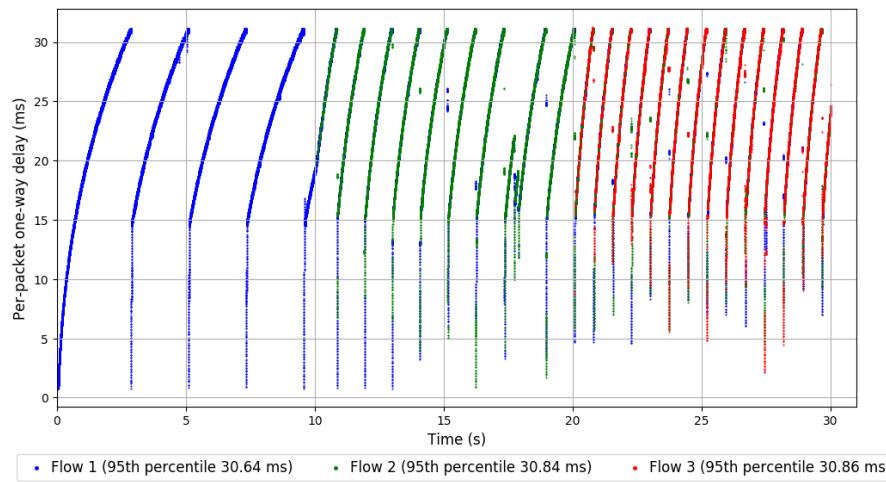
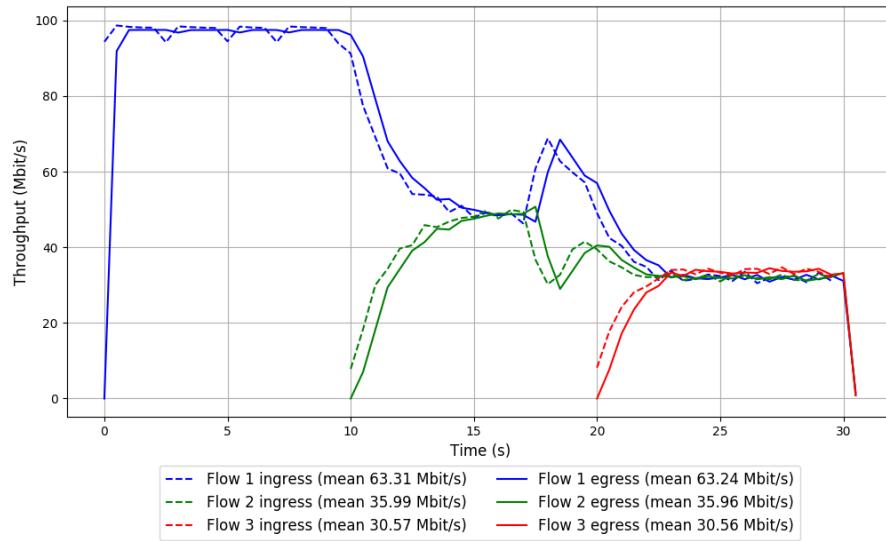


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-17 13:58:45
End at: 2019-01-17 13:59:15
Local clock offset: -3.875 ms
Remote clock offset: 1.434 ms

# Below is generated by plot.py at 2019-01-17 14:16:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 30.801 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 63.24 Mbit/s
95th percentile per-packet one-way delay: 30.637 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 30.840 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 30.857 ms
Loss rate: 0.09%
```

Run 5: Report of LEDBAT — Data Link

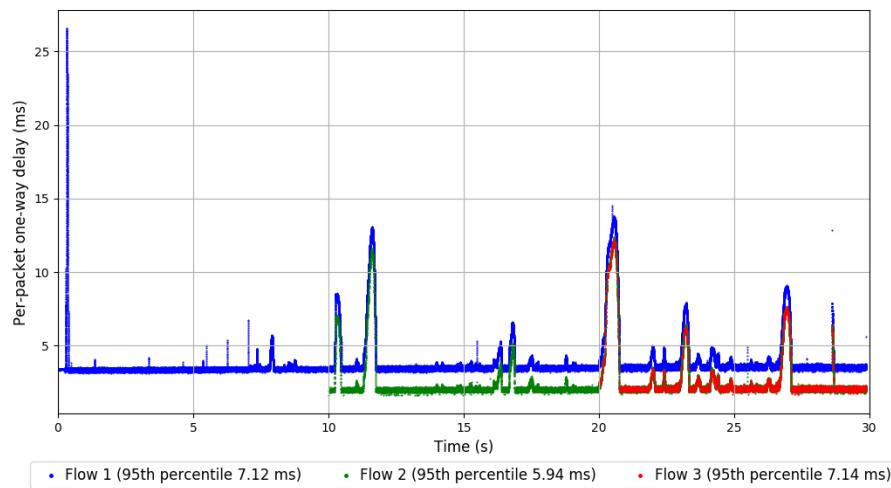
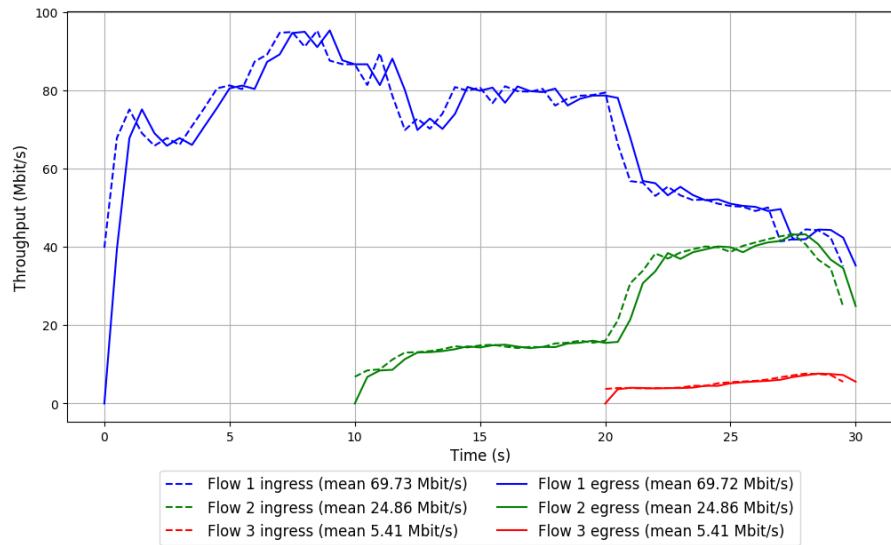


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-17 12:18:37
End at: 2019-01-17 12:19:07
Local clock offset: -6.681 ms
Remote clock offset: 1.558 ms

# Below is generated by plot.py at 2019-01-17 14:16:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.04 Mbit/s
95th percentile per-packet one-way delay: 6.759 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 7.125 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 5.944 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.41 Mbit/s
95th percentile per-packet one-way delay: 7.141 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

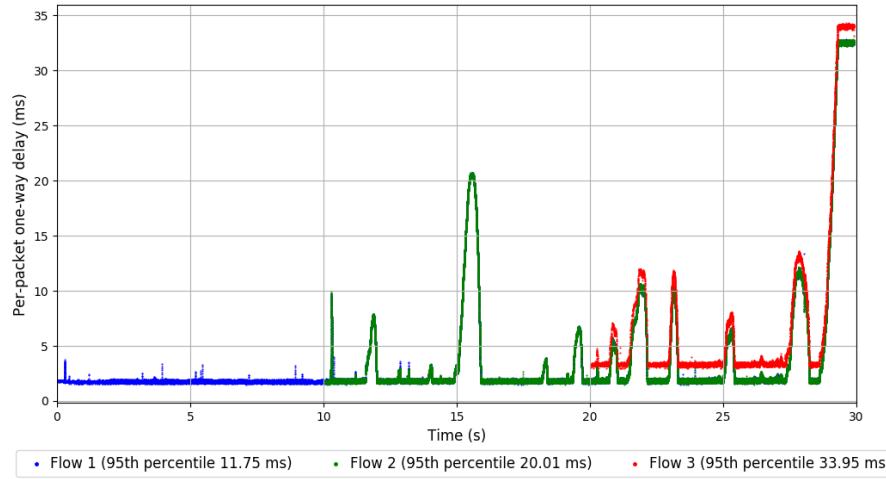
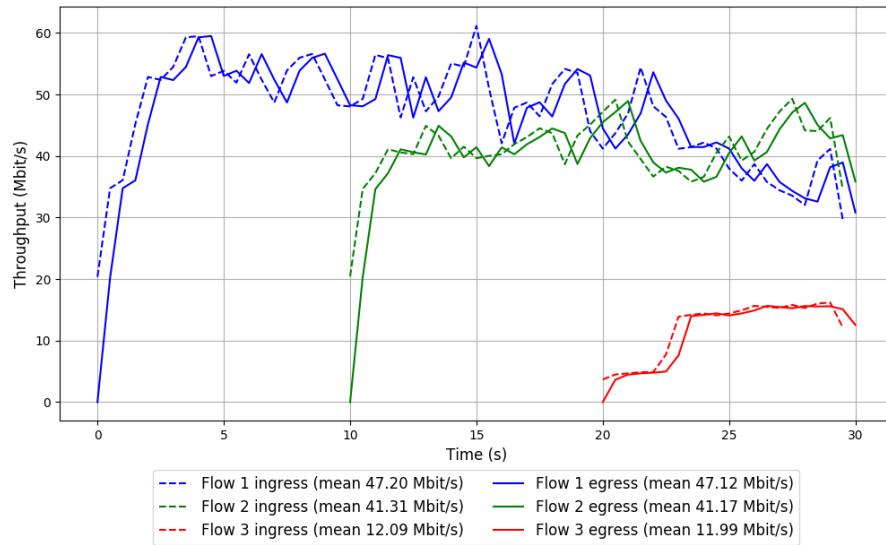


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-17 12:42:31
End at: 2019-01-17 12:43:01
Local clock offset: -5.691 ms
Remote clock offset: 1.362 ms

# Below is generated by plot.py at 2019-01-17 14:16:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.47 Mbit/s
95th percentile per-packet one-way delay: 16.993 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 47.12 Mbit/s
95th percentile per-packet one-way delay: 11.748 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 41.17 Mbit/s
95th percentile per-packet one-way delay: 20.014 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 33.946 ms
Loss rate: 0.53%
```

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

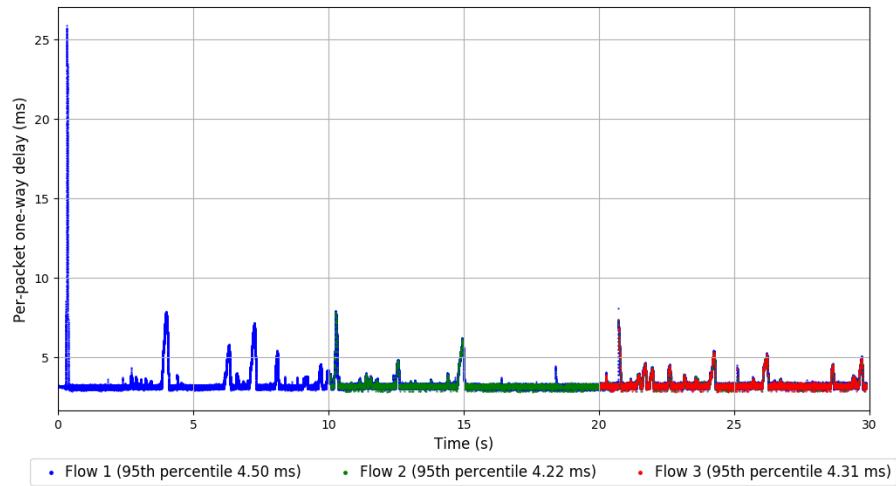
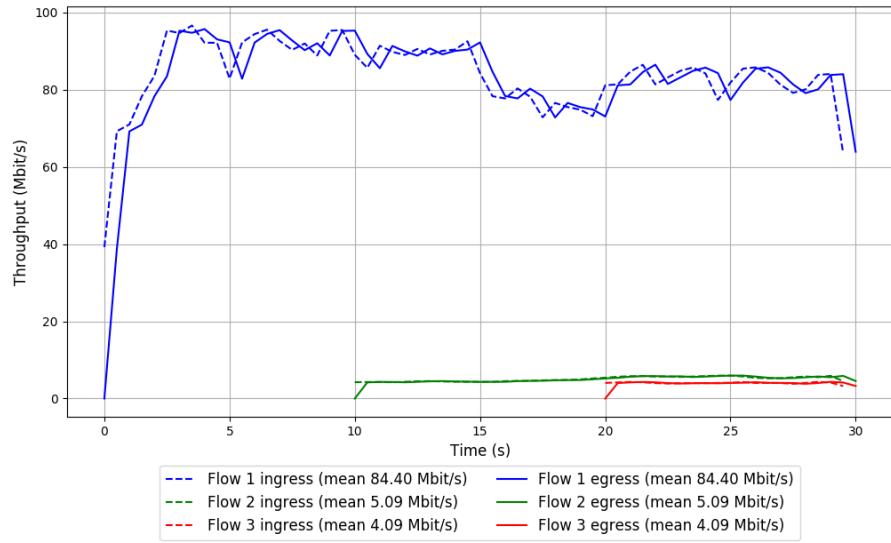


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-17 13:06:26
End at: 2019-01-17 13:06:56
Local clock offset: -4.672 ms
Remote clock offset: 1.238 ms

# Below is generated by plot.py at 2019-01-17 14:16:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.13 Mbit/s
95th percentile per-packet one-way delay: 4.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.40 Mbit/s
95th percentile per-packet one-way delay: 4.505 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 4.219 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 4.310 ms
Loss rate: 0.00%
```

### Run 3: Report of PCC-Allegro — Data Link

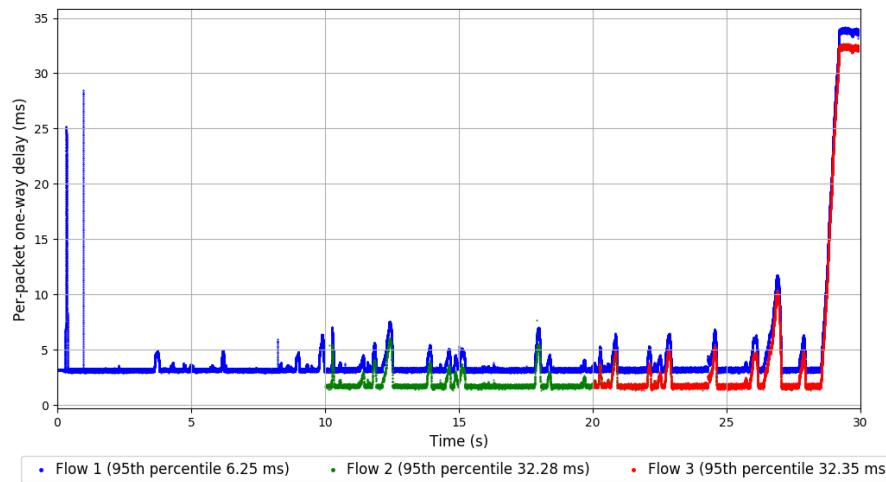
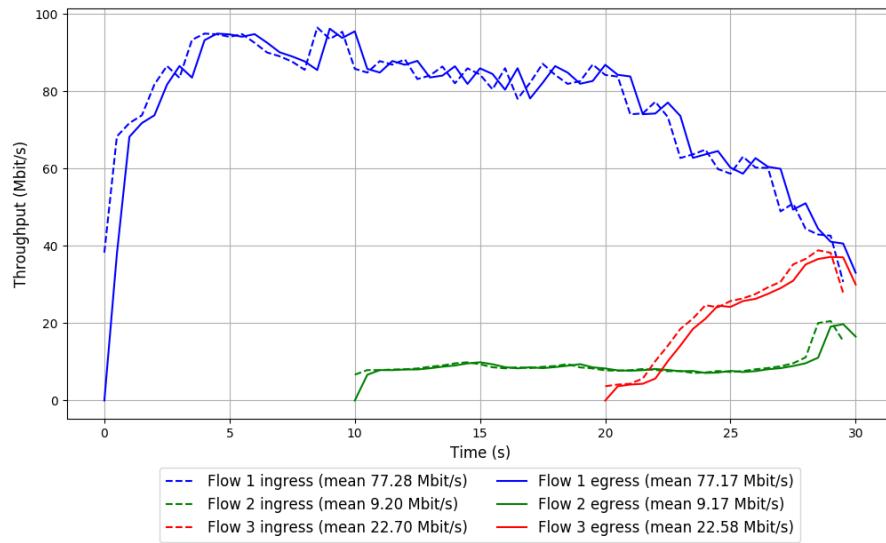


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-17 13:30:20
End at: 2019-01-17 13:30:50
Local clock offset: -5.222 ms
Remote clock offset: 1.467 ms

# Below is generated by plot.py at 2019-01-17 14:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 9.774 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 77.17 Mbit/s
95th percentile per-packet one-way delay: 6.247 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 9.17 Mbit/s
95th percentile per-packet one-way delay: 32.285 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 32.354 ms
Loss rate: 0.21%
```

Run 4: Report of PCC-Allegro — Data Link

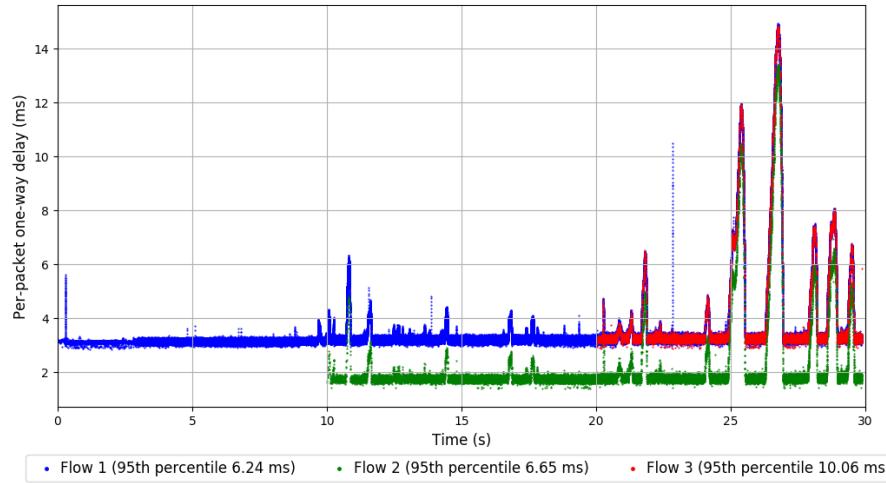
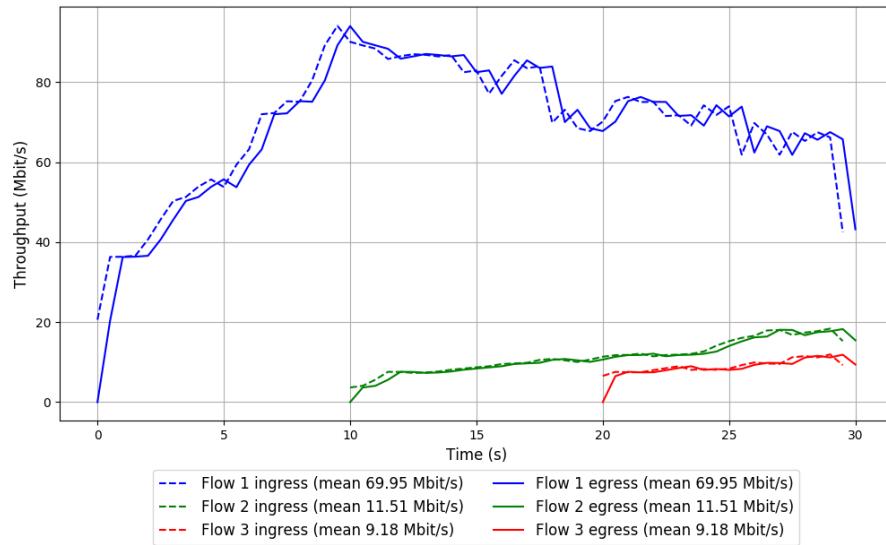


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-17 13:54:16
End at: 2019-01-17 13:54:46
Local clock offset: -4.891 ms
Remote clock offset: 1.497 ms

# Below is generated by plot.py at 2019-01-17 14:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.62 Mbit/s
95th percentile per-packet one-way delay: 6.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.95 Mbit/s
95th percentile per-packet one-way delay: 6.237 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 6.652 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.18 Mbit/s
95th percentile per-packet one-way delay: 10.059 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Allegro — Data Link

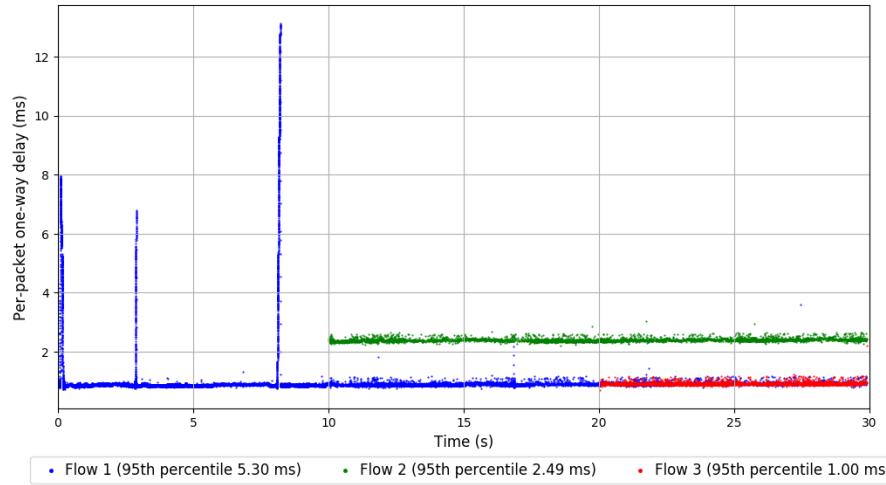
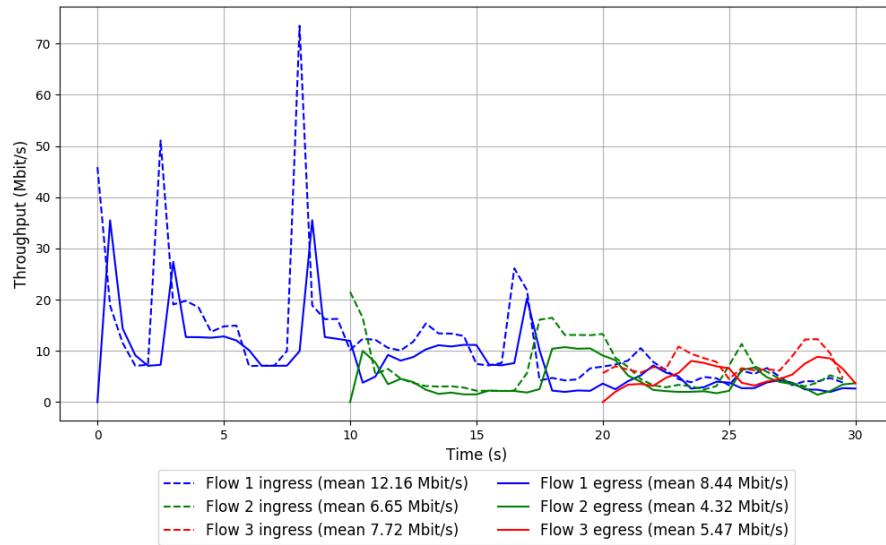


Run 1: Statistics of PCC-Expr

```
Start at: 2019-01-17 12:22:01
End at: 2019-01-17 12:22:31
Local clock offset: -5.275 ms
Remote clock offset: 1.381 ms

# Below is generated by plot.py at 2019-01-17 14:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 2.663 ms
Loss rate: 31.43%
-- Flow 1:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 5.299 ms
Loss rate: 30.56%
-- Flow 2:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 2.487 ms
Loss rate: 35.10%
-- Flow 3:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 1.002 ms
Loss rate: 29.21%
```

Run 1: Report of PCC-Expr — Data Link

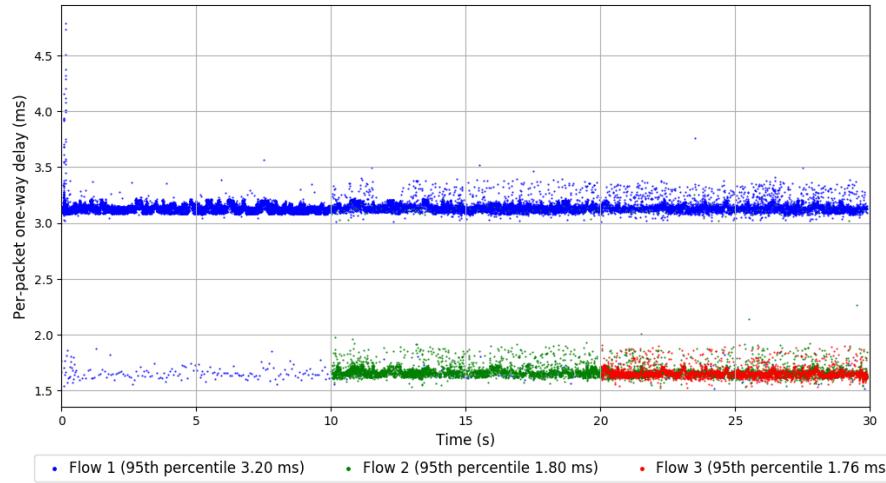
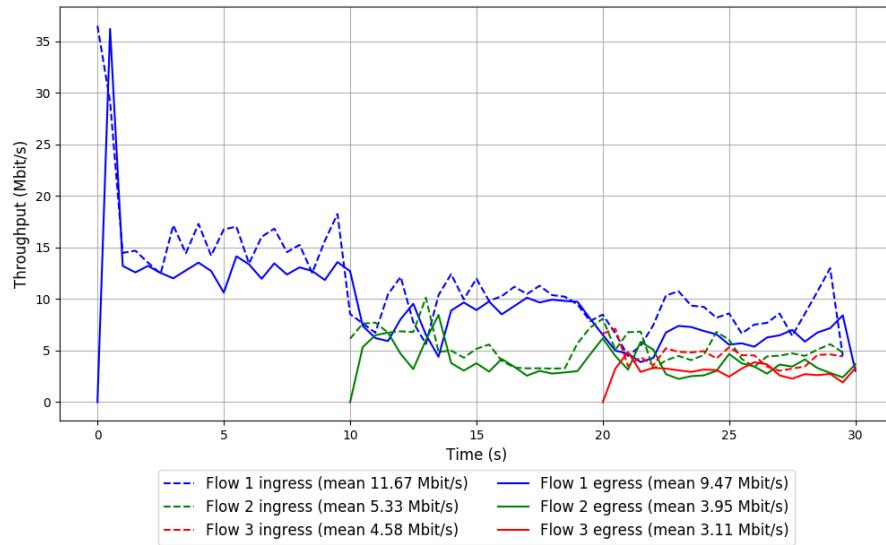


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-17 12:45:55
End at: 2019-01-17 12:46:25
Local clock offset: -5.807 ms
Remote clock offset: 1.279 ms

# Below is generated by plot.py at 2019-01-17 14:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 3.190 ms
Loss rate: 21.54%
-- Flow 1:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 3.196 ms
Loss rate: 18.84%
-- Flow 2:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 1.803 ms
Loss rate: 25.87%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 1.761 ms
Loss rate: 32.27%
```

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

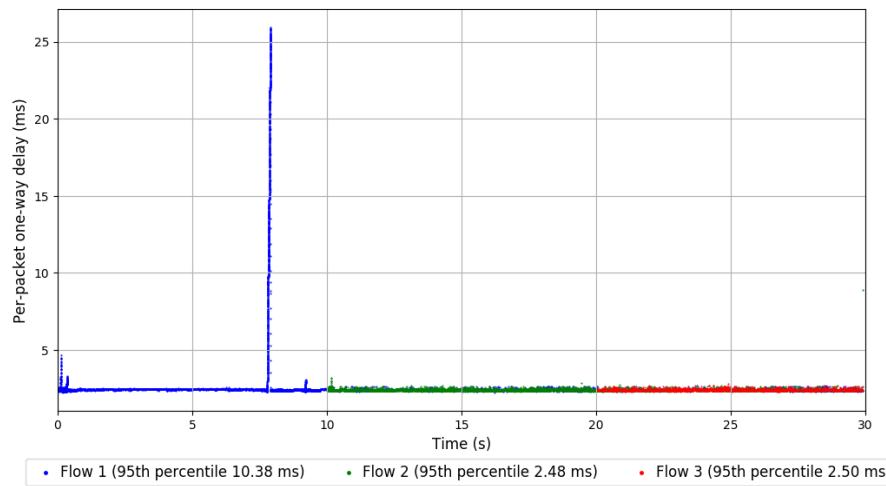
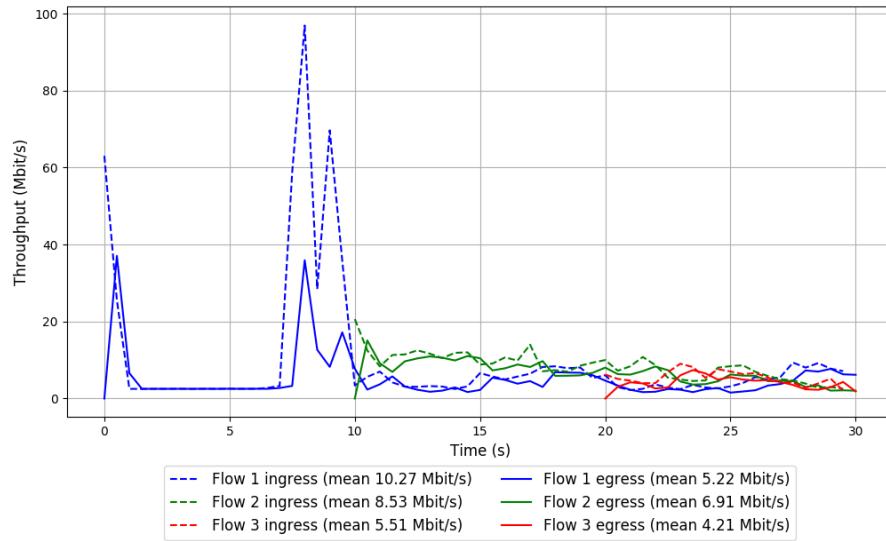


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-17 13:09:49
End at: 2019-01-17 13:10:19
Local clock offset: -3.936 ms
Remote clock offset: 1.305 ms

# Below is generated by plot.py at 2019-01-17 14:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 2.586 ms
Loss rate: 36.91%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 10.381 ms
Loss rate: 49.17%
-- Flow 2:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 2.478 ms
Loss rate: 18.96%
-- Flow 3:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 2.496 ms
Loss rate: 23.60%
```

Run 3: Report of PCC-Expr — Data Link

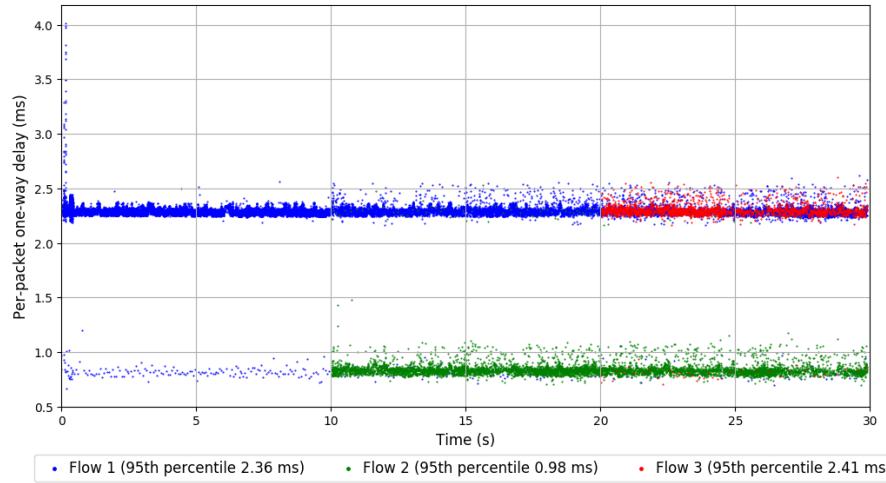
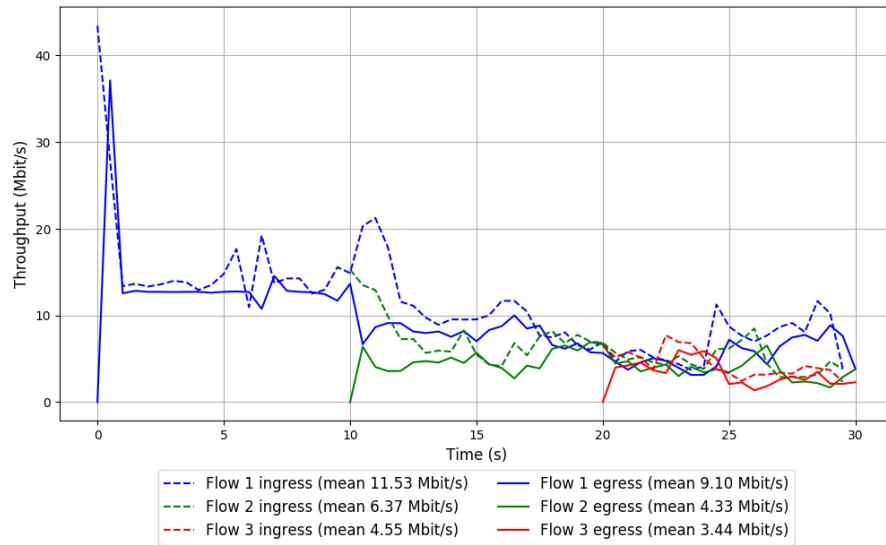


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-17 13:33:44
End at: 2019-01-17 13:34:14
Local clock offset: -4.566 ms
Remote clock offset: 1.468 ms

# Below is generated by plot.py at 2019-01-17 14:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 2.352 ms
Loss rate: 24.02%
-- Flow 1:
Average throughput: 9.10 Mbit/s
95th percentile per-packet one-way delay: 2.357 ms
Loss rate: 21.04%
-- Flow 2:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 0.976 ms
Loss rate: 32.04%
-- Flow 3:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 2.412 ms
Loss rate: 24.29%
```

Run 4: Report of PCC-Expr — Data Link

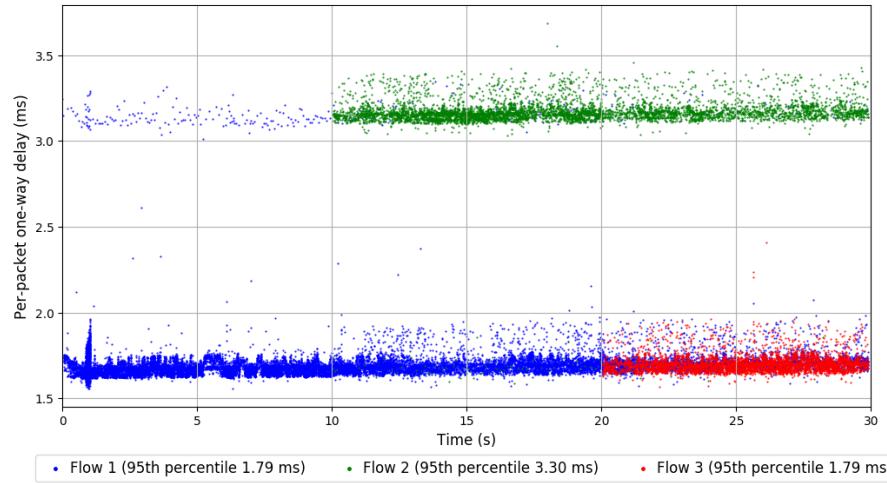
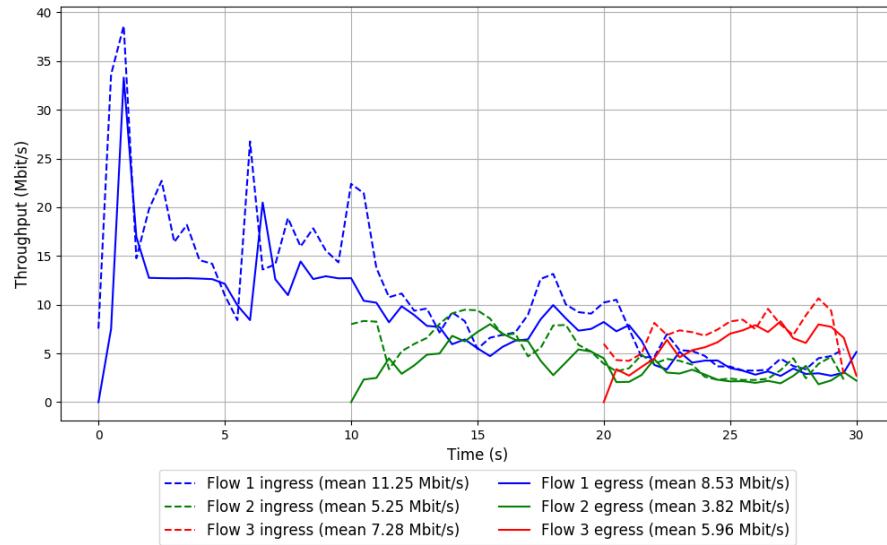


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-17 13:57:39
End at: 2019-01-17 13:58:09
Local clock offset: -4.704 ms
Remote clock offset: 1.49 ms

# Below is generated by plot.py at 2019-01-17 14:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 3.184 ms
Loss rate: 23.92%
-- Flow 1:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 1.786 ms
Loss rate: 24.13%
-- Flow 2:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 3.299 ms
Loss rate: 27.23%
-- Flow 3:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 1.794 ms
Loss rate: 18.15%
```

Run 5: Report of PCC-Expr — Data Link

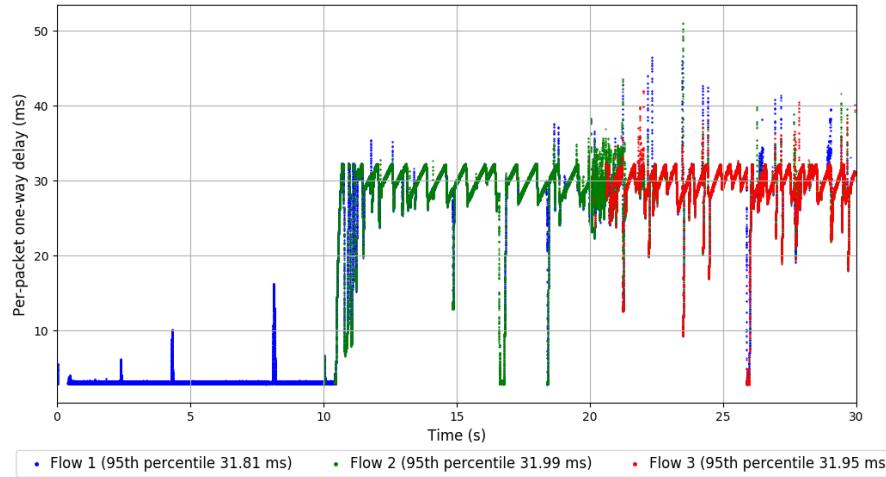
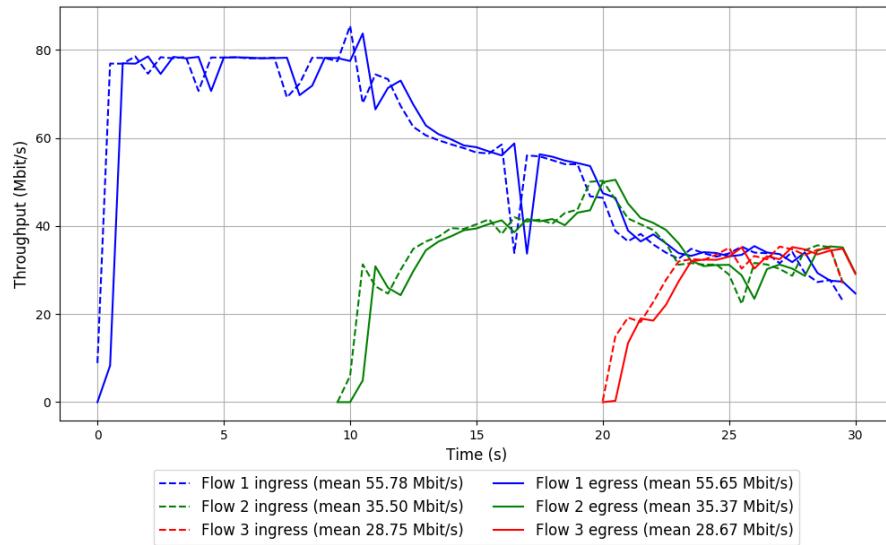


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-17 12:12:53
End at: 2019-01-17 12:13:23
Local clock offset: -6.345 ms
Remote clock offset: 1.421 ms

# Below is generated by plot.py at 2019-01-17 14:17:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.63 Mbit/s
95th percentile per-packet one-way delay: 31.890 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 55.65 Mbit/s
95th percentile per-packet one-way delay: 31.813 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 35.37 Mbit/s
95th percentile per-packet one-way delay: 31.988 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 28.67 Mbit/s
95th percentile per-packet one-way delay: 31.947 ms
Loss rate: 0.19%
```

Run 1: Report of QUIC Cubic — Data Link

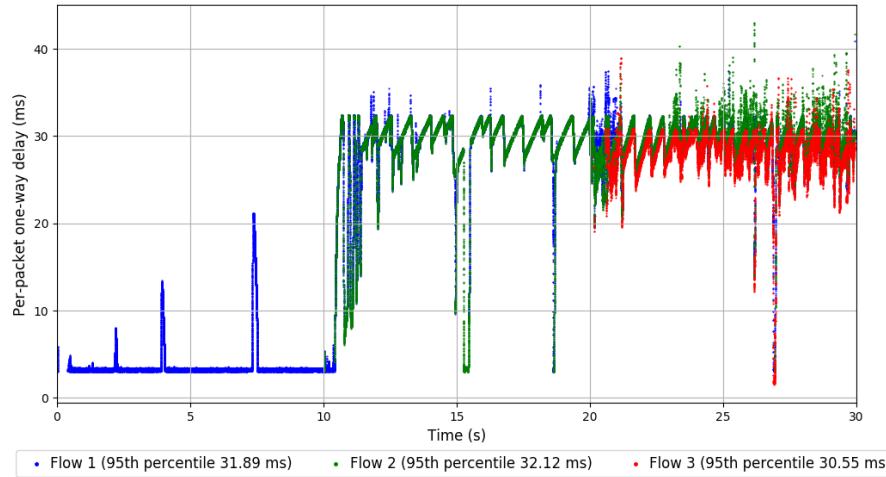
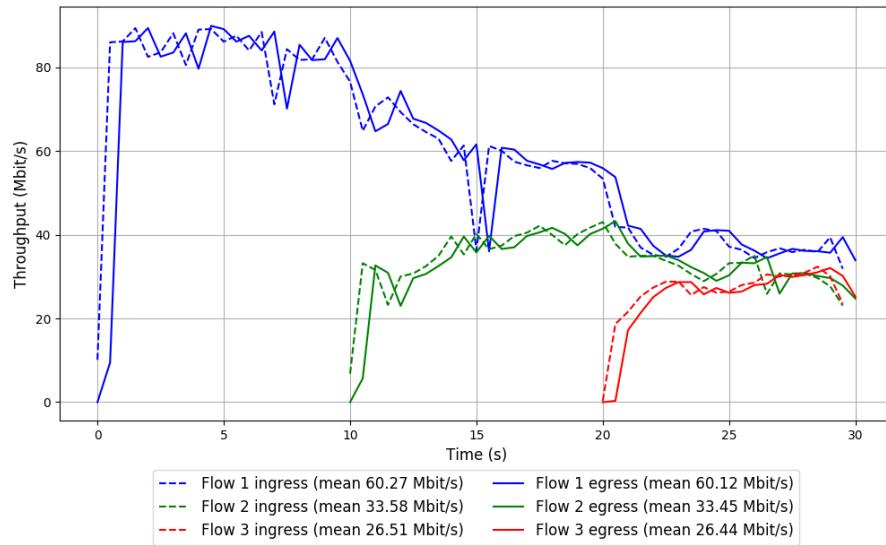


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-17 12:36:46
End at: 2019-01-17 12:37:16
Local clock offset: -5.468 ms
Remote clock offset: 1.376 ms

# Below is generated by plot.py at 2019-01-17 14:17:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.06 Mbit/s
95th percentile per-packet one-way delay: 31.946 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 60.12 Mbit/s
95th percentile per-packet one-way delay: 31.893 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 33.45 Mbit/s
95th percentile per-packet one-way delay: 32.123 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 26.44 Mbit/s
95th percentile per-packet one-way delay: 30.549 ms
Loss rate: 0.23%
```

Run 2: Report of QUIC Cubic — Data Link

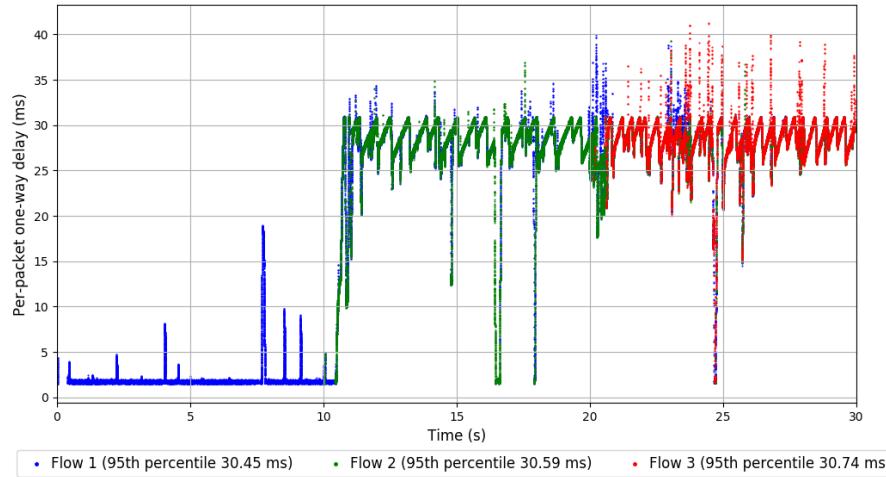
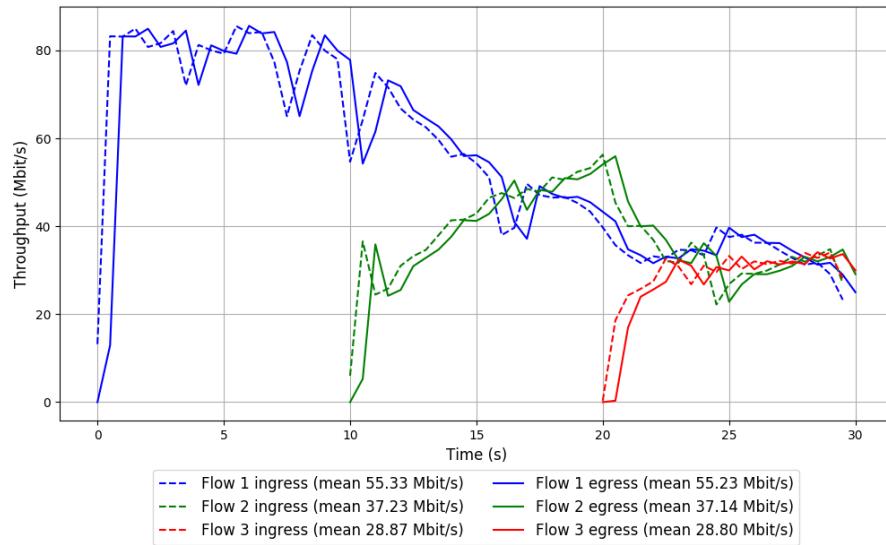


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-17 13:00:41
End at: 2019-01-17 13:01:11
Local clock offset: -4.711 ms
Remote clock offset: 1.226 ms

# Below is generated by plot.py at 2019-01-17 14:17:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 30.548 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: 30.450 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 30.588 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 30.740 ms
Loss rate: 0.21%
```

Run 3: Report of QUIC Cubic — Data Link

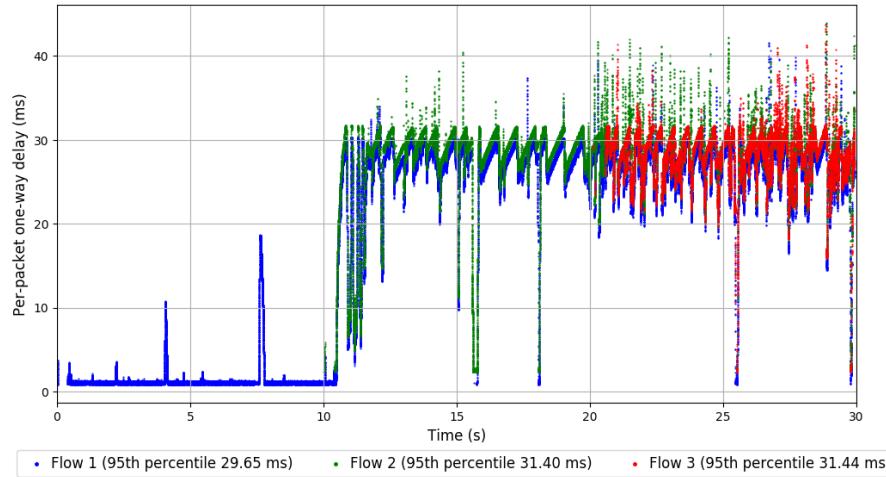
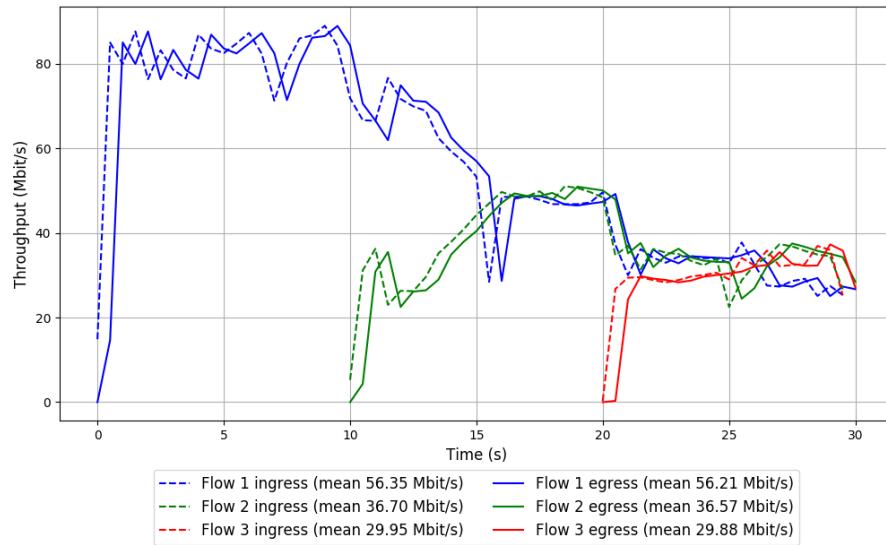


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-17 13:24:36
End at: 2019-01-17 13:25:06
Local clock offset: -4.356 ms
Remote clock offset: 1.428 ms

# Below is generated by plot.py at 2019-01-17 14:17:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.34 Mbit/s
95th percentile per-packet one-way delay: 30.991 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 56.21 Mbit/s
95th percentile per-packet one-way delay: 29.654 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 36.57 Mbit/s
95th percentile per-packet one-way delay: 31.396 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 29.88 Mbit/s
95th percentile per-packet one-way delay: 31.436 ms
Loss rate: 0.20%
```

Run 4: Report of QUIC Cubic — Data Link

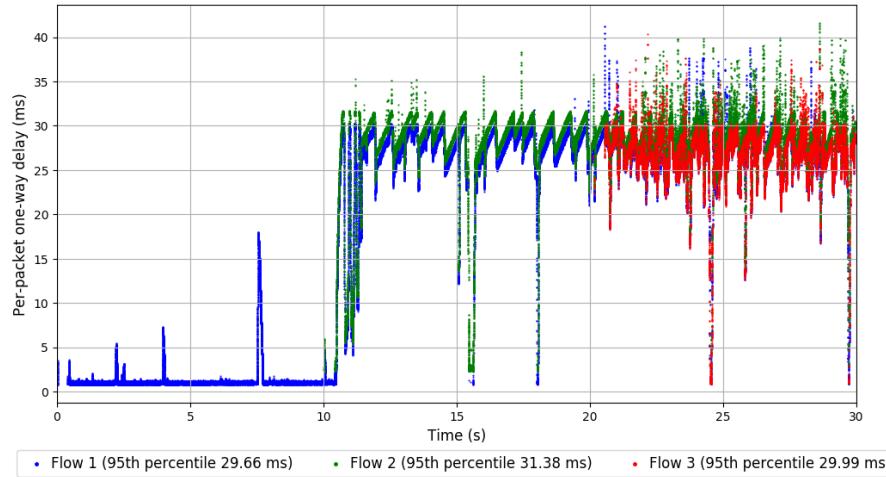
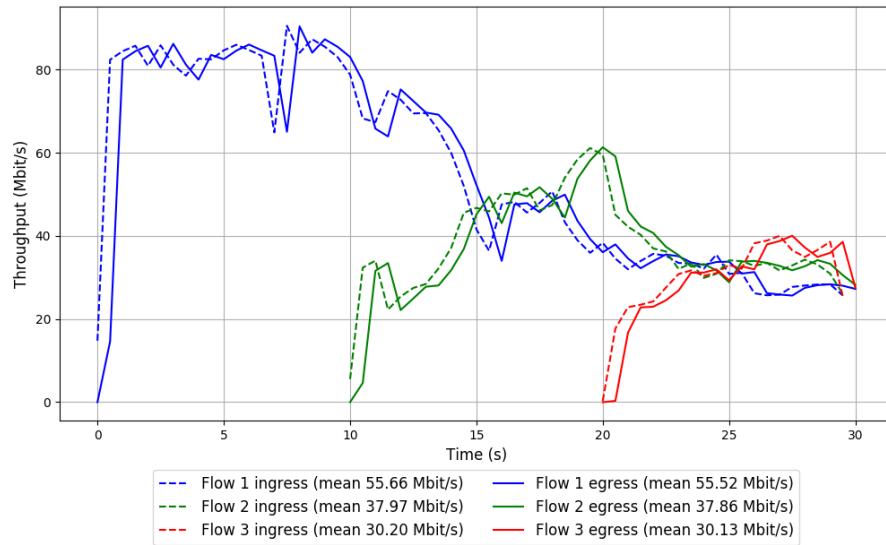


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-17 13:48:30
End at: 2019-01-17 13:49:00
Local clock offset: -4.805 ms
Remote clock offset: 1.537 ms

# Below is generated by plot.py at 2019-01-17 14:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.63 Mbit/s
95th percentile per-packet one-way delay: 30.775 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 29.660 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 37.86 Mbit/s
95th percentile per-packet one-way delay: 31.384 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 29.994 ms
Loss rate: 0.20%
```

Run 5: Report of QUIC Cubic — Data Link

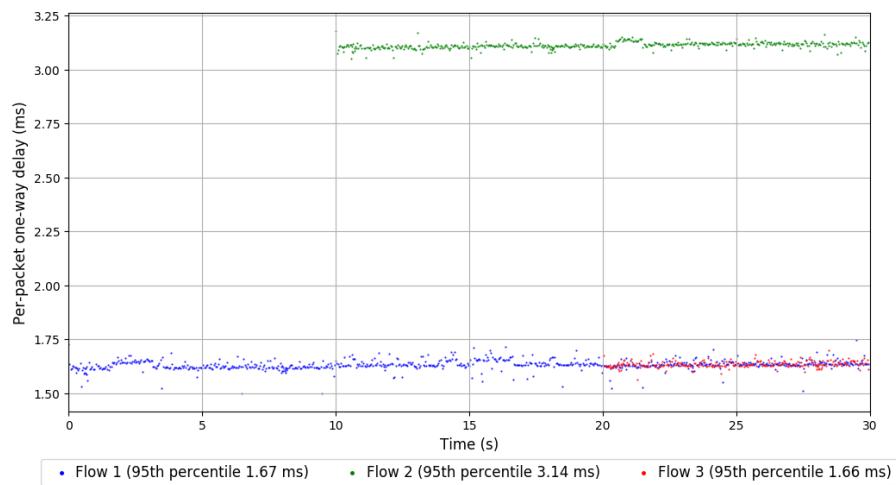
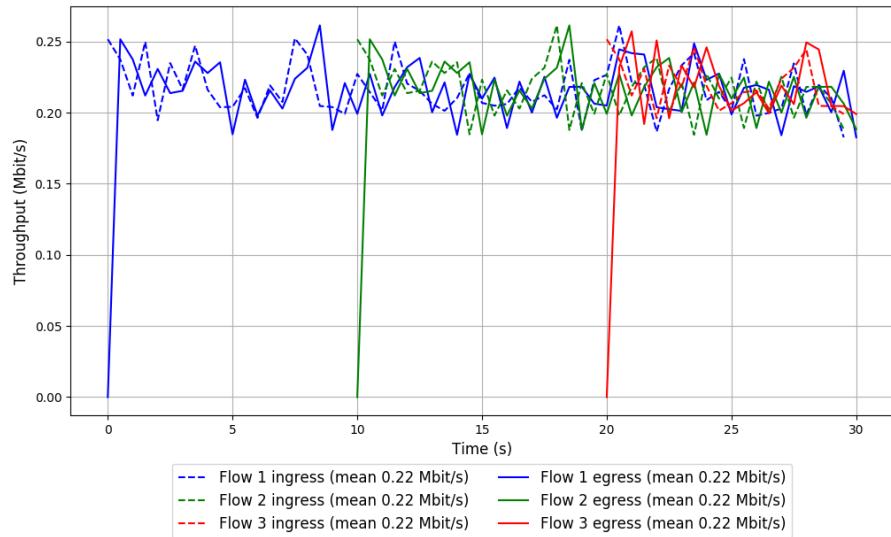


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-17 12:28:51
End at: 2019-01-17 12:29:21
Local clock offset: -5.508 ms
Remote clock offset: 1.344 ms

# Below is generated by plot.py at 2019-01-17 14:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.125 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.666 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.136 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.659 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

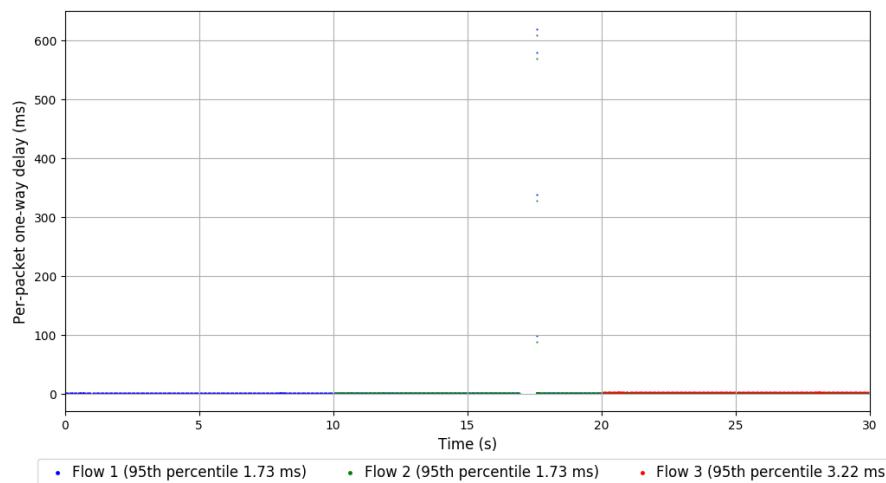
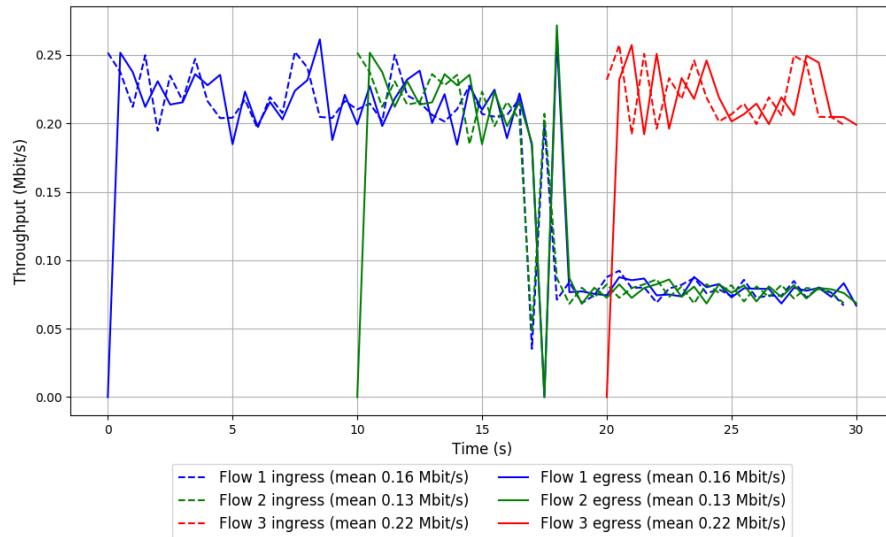


Run 2: Statistics of SCReAM

```
Start at: 2019-01-17 12:52:46
End at: 2019-01-17 12:53:16
Local clock offset: -5.121 ms
Remote clock offset: 1.245 ms

# Below is generated by plot.py at 2019-01-17 14:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 3.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 1.731 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 1.729 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.220 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

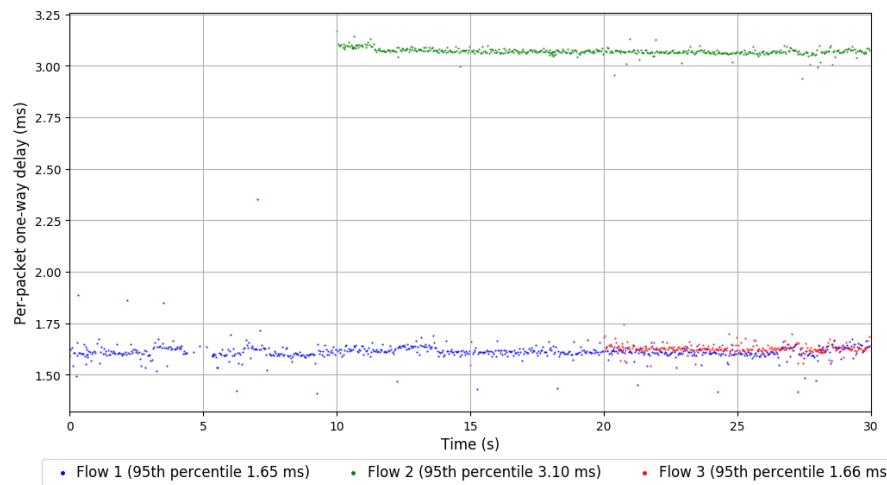
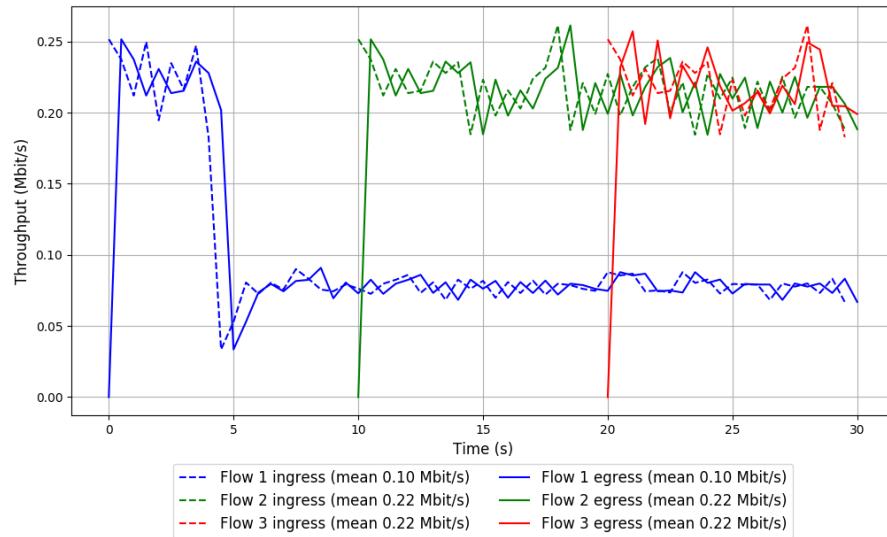


Run 3: Statistics of SCReAM

```
Start at: 2019-01-17 13:16:40
End at: 2019-01-17 13:17:10
Local clock offset: -4.83 ms
Remote clock offset: 1.24 ms

# Below is generated by plot.py at 2019-01-17 14:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 3.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 1.649 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.099 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.663 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

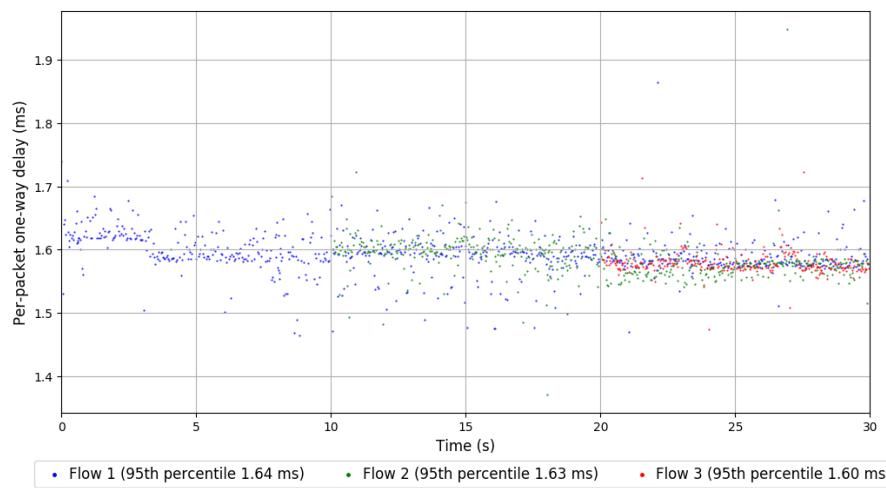
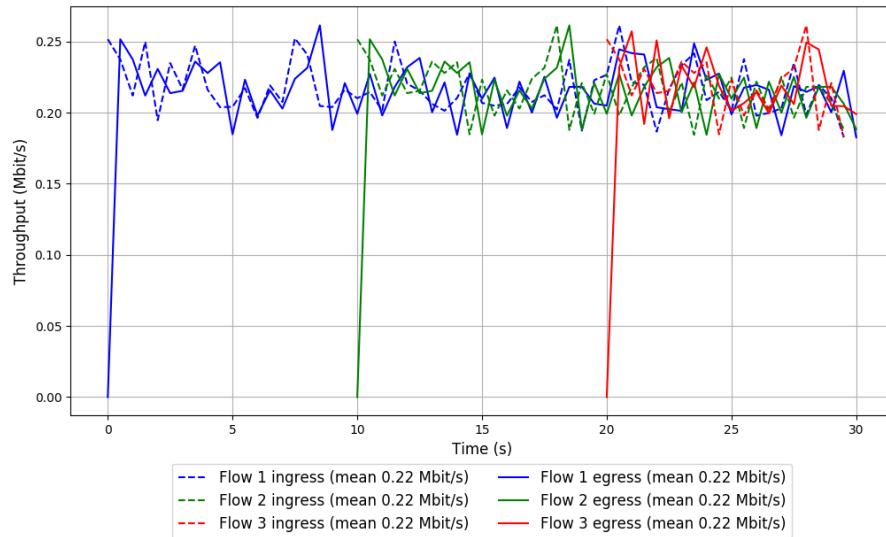


Run 4: Statistics of SCReAM

```
Start at: 2019-01-17 13:40:34
End at: 2019-01-17 13:41:04
Local clock offset: -5.521 ms
Remote clock offset: 1.513 ms

# Below is generated by plot.py at 2019-01-17 14:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.644 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.628 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.604 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

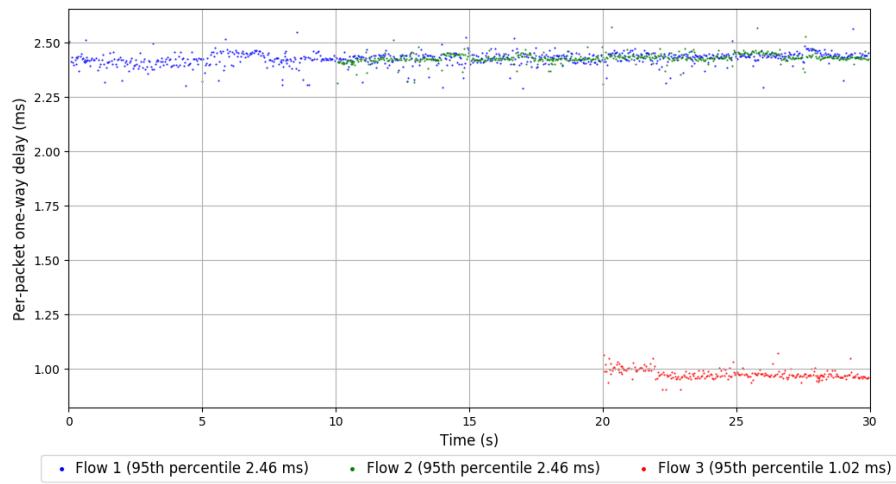
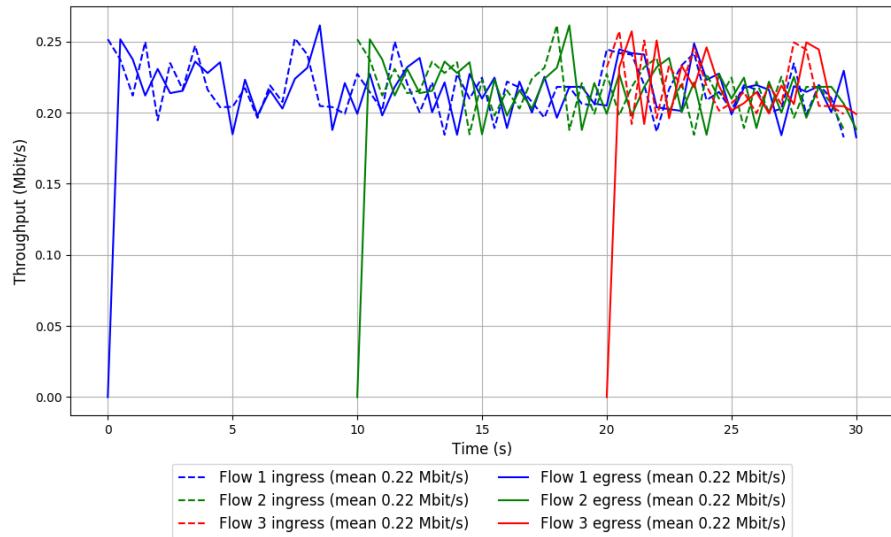


Run 5: Statistics of SCReAM

```
Start at: 2019-01-17 14:04:29
End at: 2019-01-17 14:04:59
Local clock offset: -3.699 ms
Remote clock offset: 1.442 ms

# Below is generated by plot.py at 2019-01-17 14:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.464 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.461 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

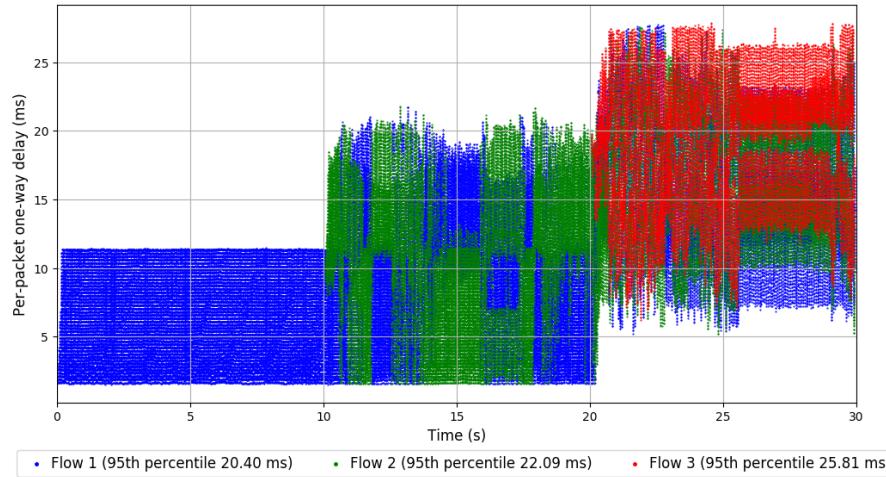
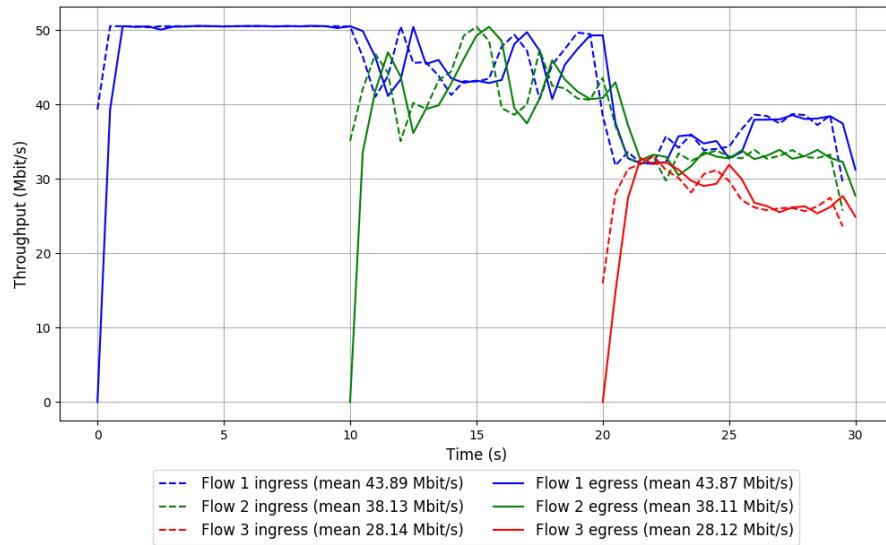


Run 1: Statistics of Sprout

```
Start at: 2019-01-17 12:26:35
End at: 2019-01-17 12:27:05
Local clock offset: -5.603 ms
Remote clock offset: 1.391 ms

# Below is generated by plot.py at 2019-01-17 14:17:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.50 Mbit/s
95th percentile per-packet one-way delay: 22.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.87 Mbit/s
95th percentile per-packet one-way delay: 20.402 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.11 Mbit/s
95th percentile per-packet one-way delay: 22.087 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 25.813 ms
Loss rate: 0.00%
```

## Run 1: Report of Sprout — Data Link

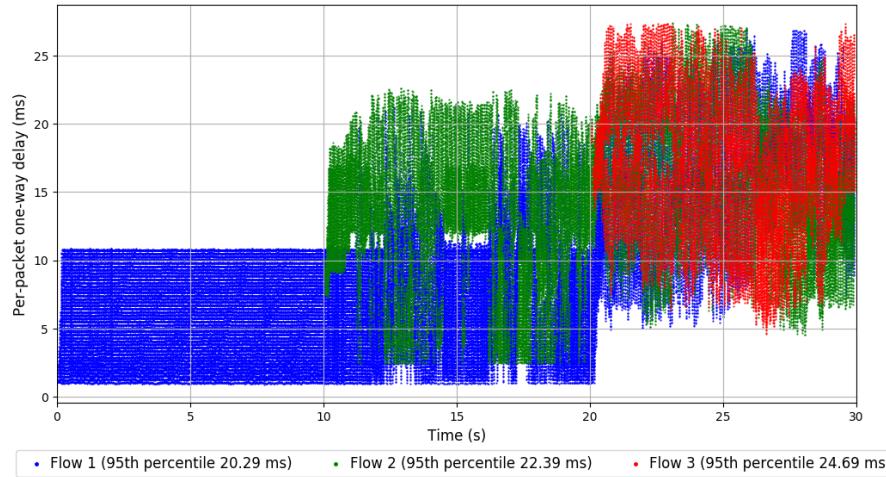
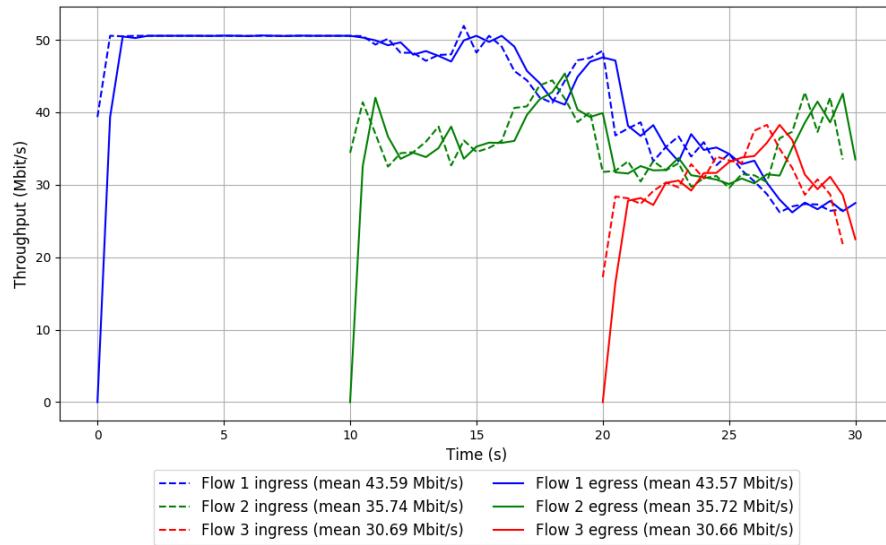


Run 2: Statistics of Sprout

```
Start at: 2019-01-17 12:50:29
End at: 2019-01-17 12:50:59
Local clock offset: -4.592 ms
Remote clock offset: 1.349 ms

# Below is generated by plot.py at 2019-01-17 14:18:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 22.191 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.57 Mbit/s
95th percentile per-packet one-way delay: 20.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.72 Mbit/s
95th percentile per-packet one-way delay: 22.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 24.691 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

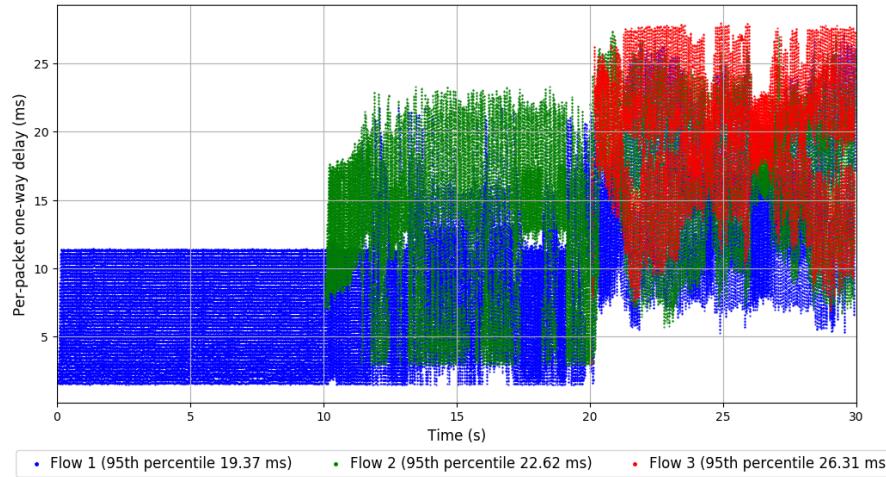
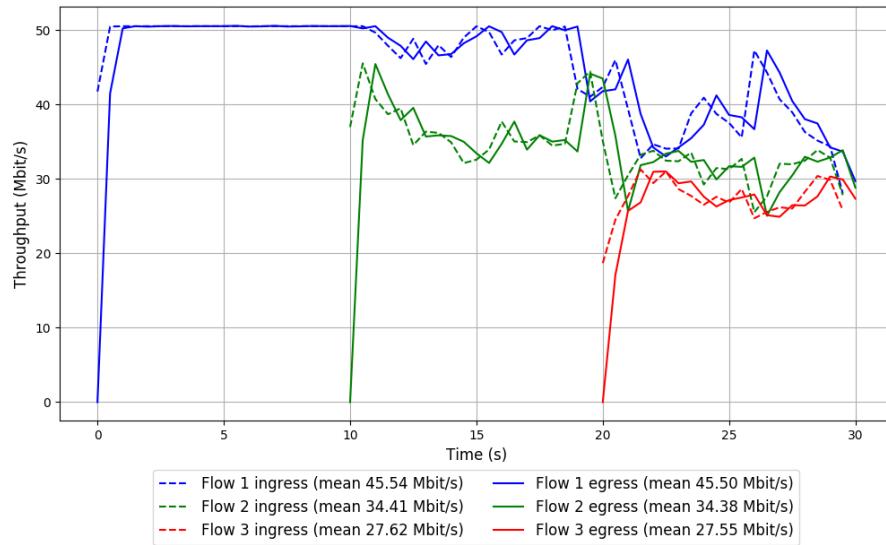


Run 3: Statistics of Sprout

```
Start at: 2019-01-17 13:14:24
End at: 2019-01-17 13:14:54
Local clock offset: -4.776 ms
Remote clock offset: 1.216 ms

# Below is generated by plot.py at 2019-01-17 14:18:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.49 Mbit/s
95th percentile per-packet one-way delay: 22.893 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.50 Mbit/s
95th percentile per-packet one-way delay: 19.366 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 22.623 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.55 Mbit/s
95th percentile per-packet one-way delay: 26.312 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

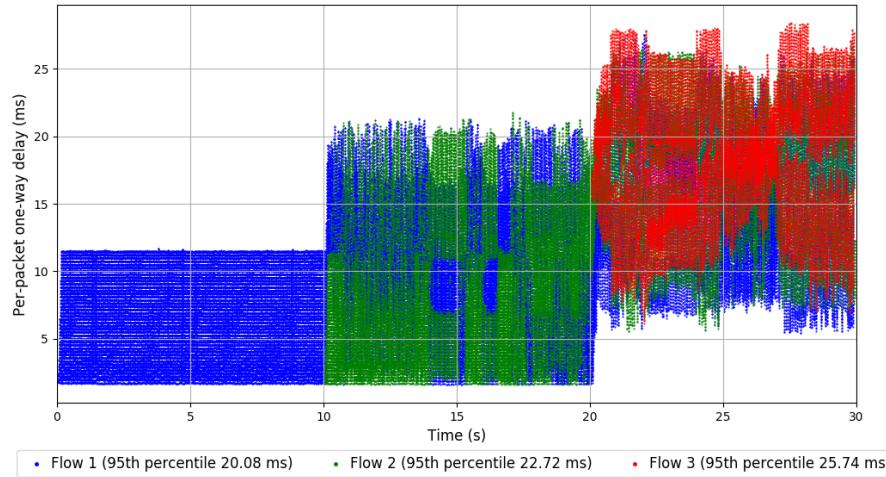
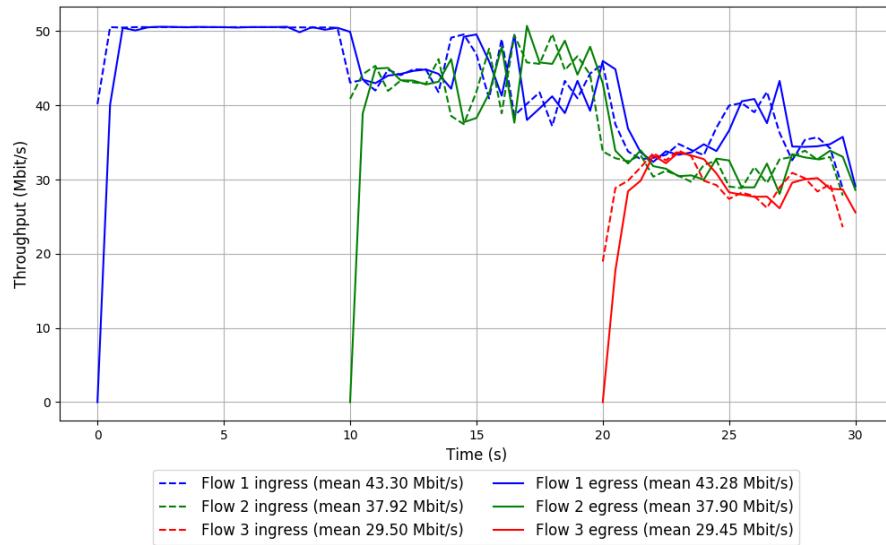


Run 4: Statistics of Sprout

```
Start at: 2019-01-17 13:38:17
End at: 2019-01-17 13:38:47
Local clock offset: -5.541 ms
Remote clock offset: 1.545 ms

# Below is generated by plot.py at 2019-01-17 14:18:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.23 Mbit/s
95th percentile per-packet one-way delay: 22.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.28 Mbit/s
95th percentile per-packet one-way delay: 20.081 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.90 Mbit/s
95th percentile per-packet one-way delay: 22.721 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.45 Mbit/s
95th percentile per-packet one-way delay: 25.741 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

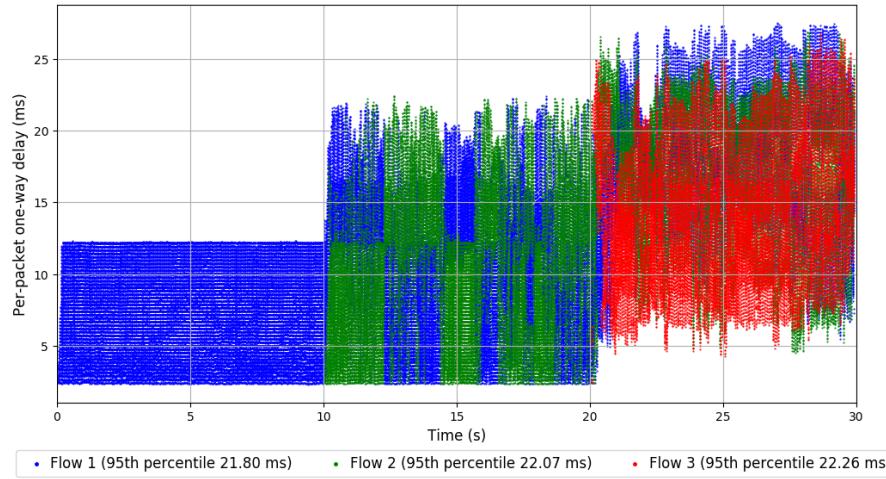
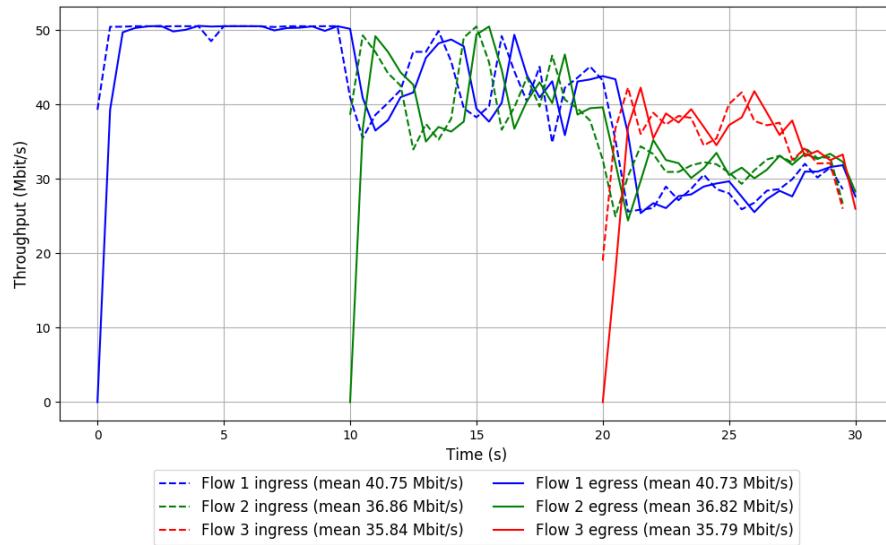


Run 5: Statistics of Sprout

```
Start at: 2019-01-17 14:02:12
End at: 2019-01-17 14:02:42
Local clock offset: -3.776 ms
Remote clock offset: 1.487 ms

# Below is generated by plot.py at 2019-01-17 14:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.06 Mbit/s
95th percentile per-packet one-way delay: 22.023 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 21.804 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.82 Mbit/s
95th percentile per-packet one-way delay: 22.067 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.79 Mbit/s
95th percentile per-packet one-way delay: 22.264 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link

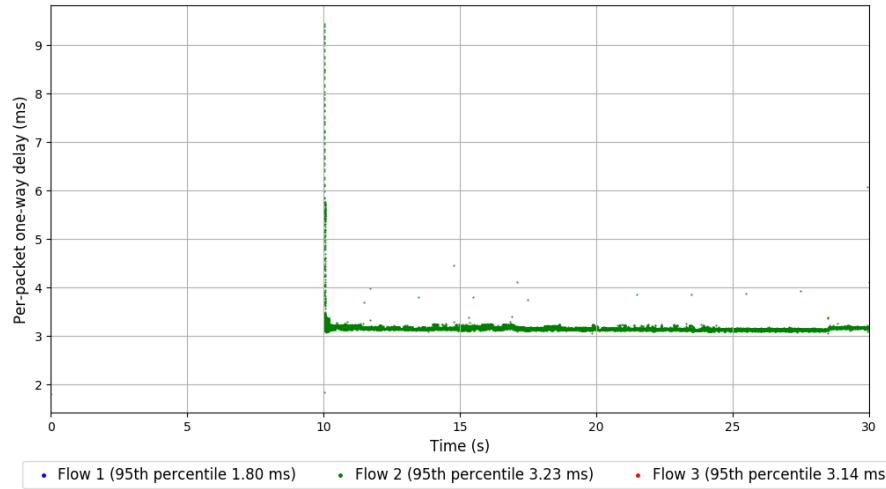
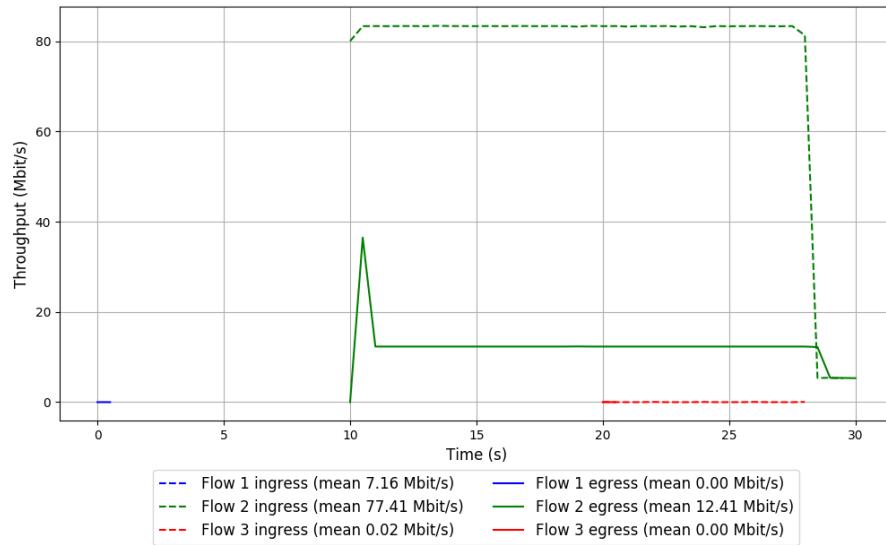


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-17 12:15:11
End at: 2019-01-17 12:15:41
Local clock offset: -6.662 ms
Remote clock offset: 1.568 ms

# Below is generated by plot.py at 2019-01-17 14:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 3.225 ms
Loss rate: 83.97%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.804 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 3.225 ms
Loss rate: 83.96%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.138 ms
Loss rate: 99.16%
```

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

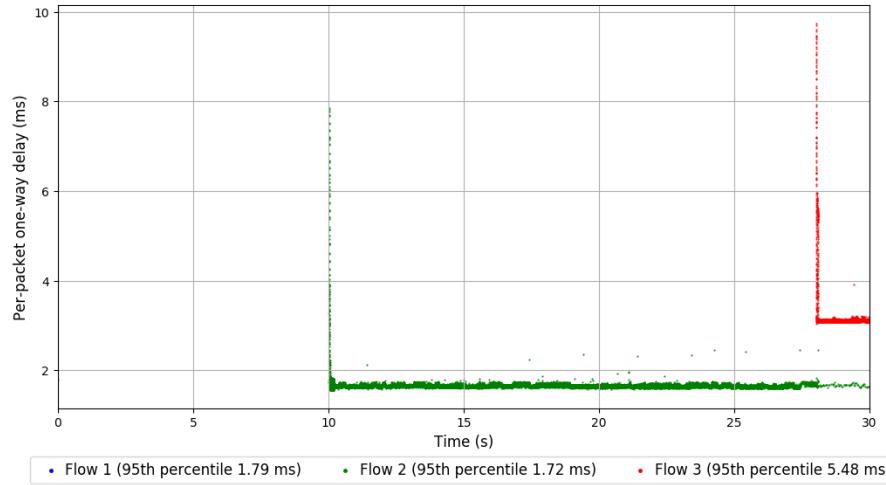
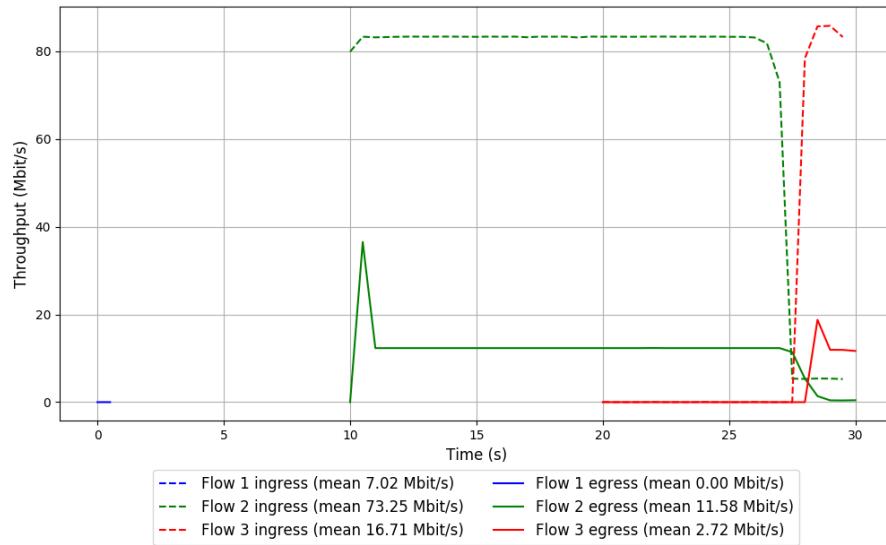


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-17 12:39:05
End at: 2019-01-17 12:39:35
Local clock offset: -5.517 ms
Remote clock offset: 1.385 ms

# Below is generated by plot.py at 2019-01-17 14:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 3.122 ms
Loss rate: 84.15%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.794 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 1.723 ms
Loss rate: 84.20%
-- Flow 3:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 5.480 ms
Loss rate: 83.71%
```

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

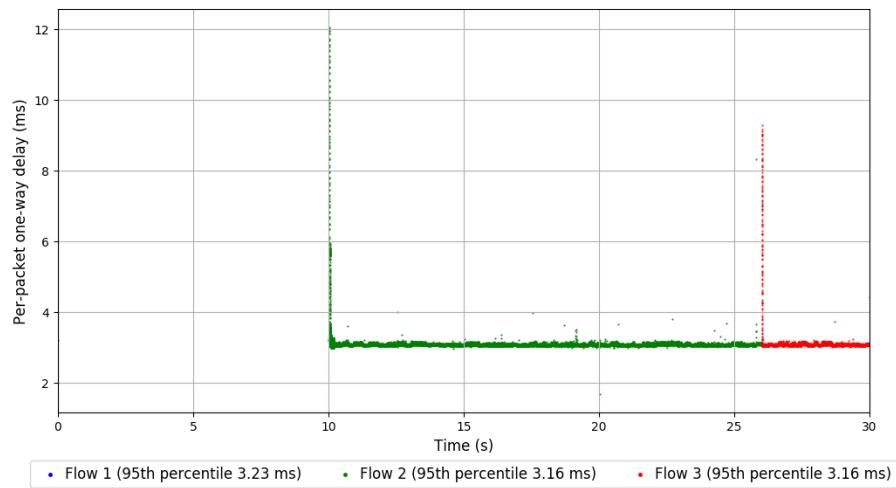
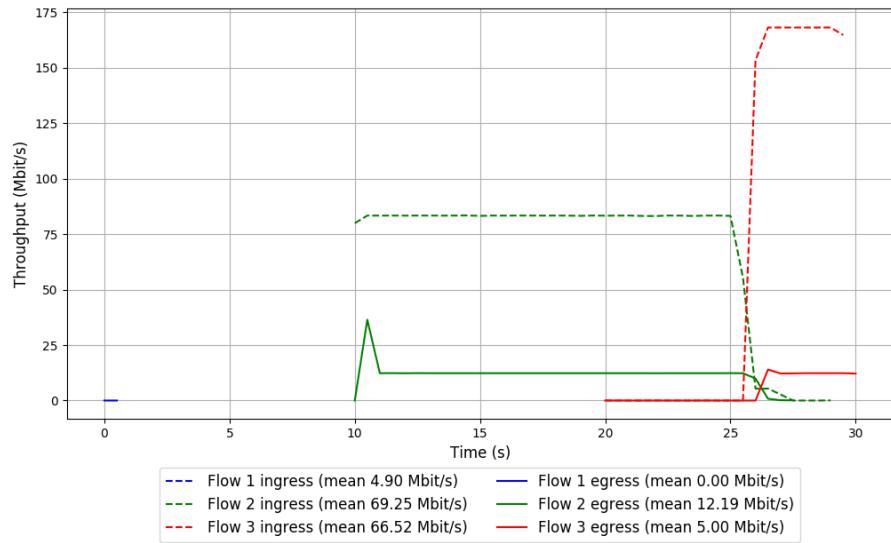


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-17 13:03:00
End at: 2019-01-17 13:03:30
Local clock offset: -4.665 ms
Remote clock offset: 1.219 ms

# Below is generated by plot.py at 2019-01-17 14:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 3.160 ms
Loss rate: 87.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.227 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 3.160 ms
Loss rate: 84.25%
-- Flow 3:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 3.162 ms
Loss rate: 92.48%
```

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

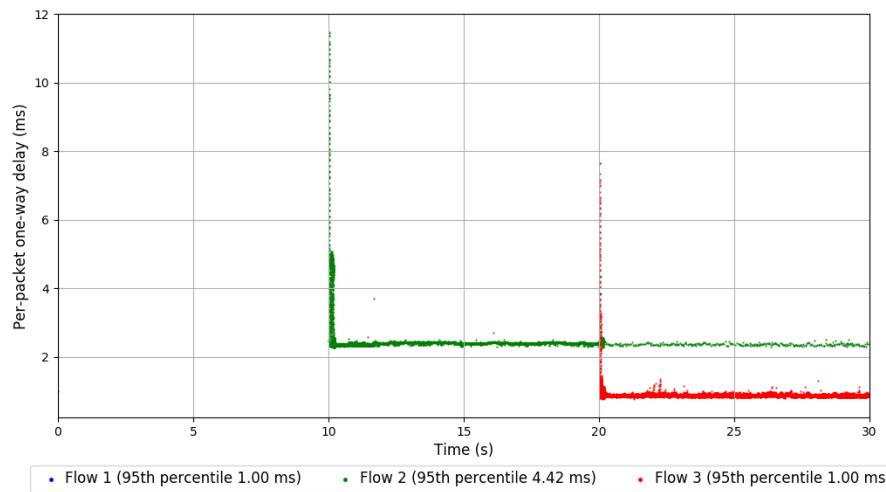
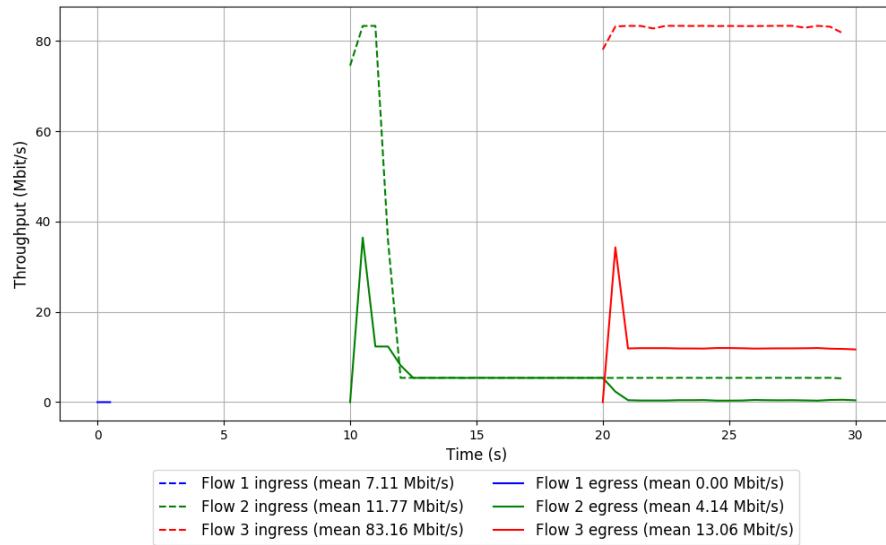


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-17 13:26:54
End at: 2019-01-17 13:27:24
Local clock offset: -4.331 ms
Remote clock offset: 1.48 ms

# Below is generated by plot.py at 2019-01-17 14:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 2.456 ms
Loss rate: 80.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.003 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 4.416 ms
Loss rate: 64.85%
-- Flow 3:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 0.999 ms
Loss rate: 84.30%
```

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

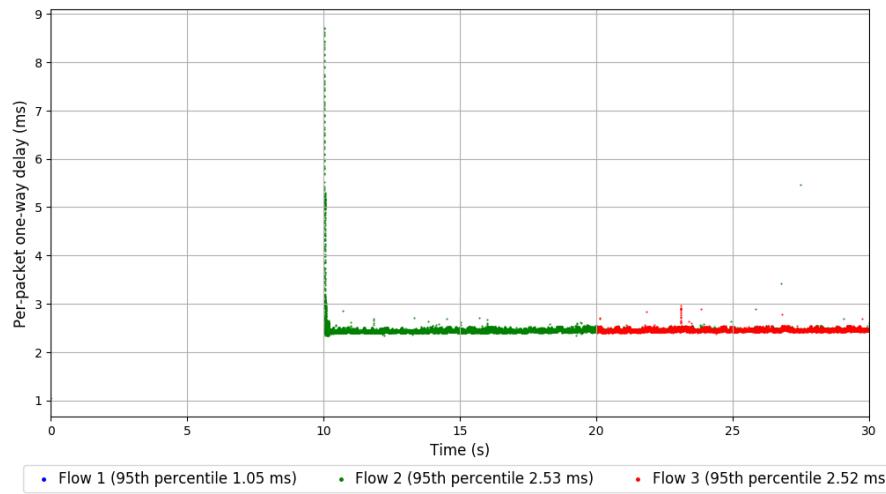
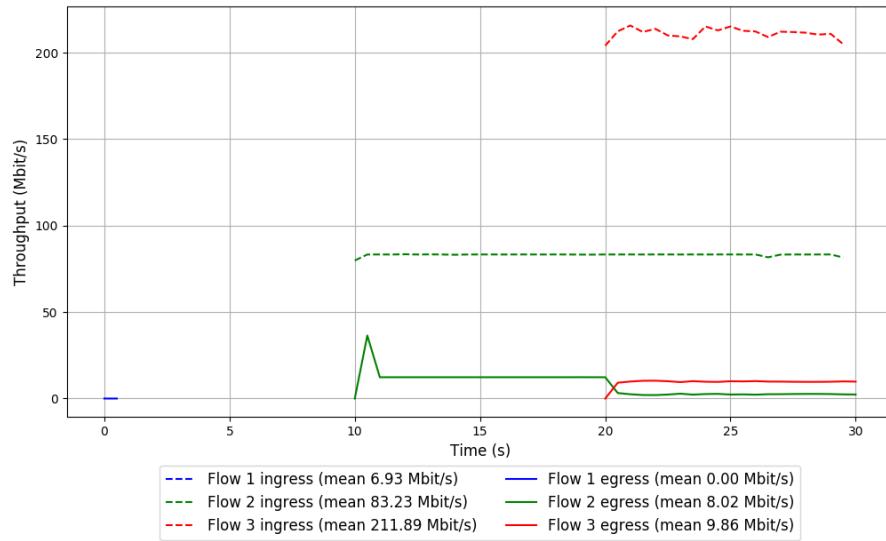


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-17 13:50:49
End at: 2019-01-17 13:51:19
Local clock offset: -4.519 ms
Remote clock offset: 1.523 ms

# Below is generated by plot.py at 2019-01-17 14:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.521 ms
Loss rate: 93.16%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.046 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 2.526 ms
Loss rate: 90.37%
-- Flow 3:
Average throughput: 9.86 Mbit/s
95th percentile per-packet one-way delay: 2.517 ms
Loss rate: 95.35%
```

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

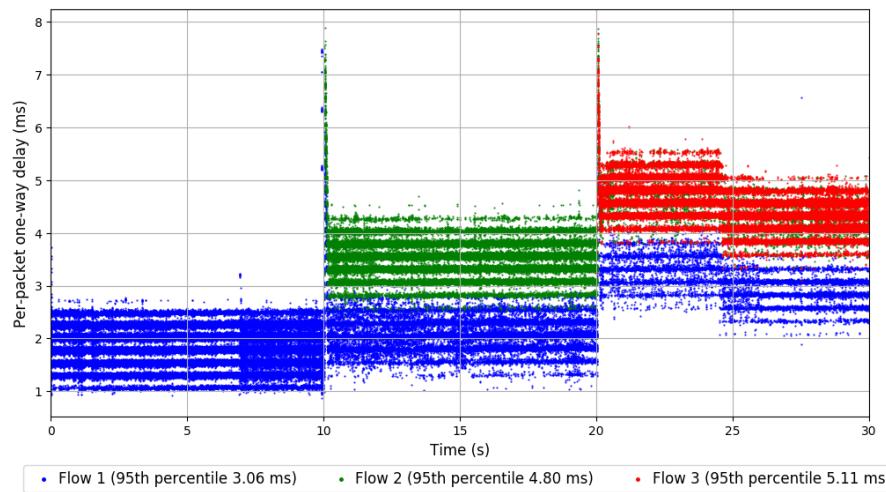
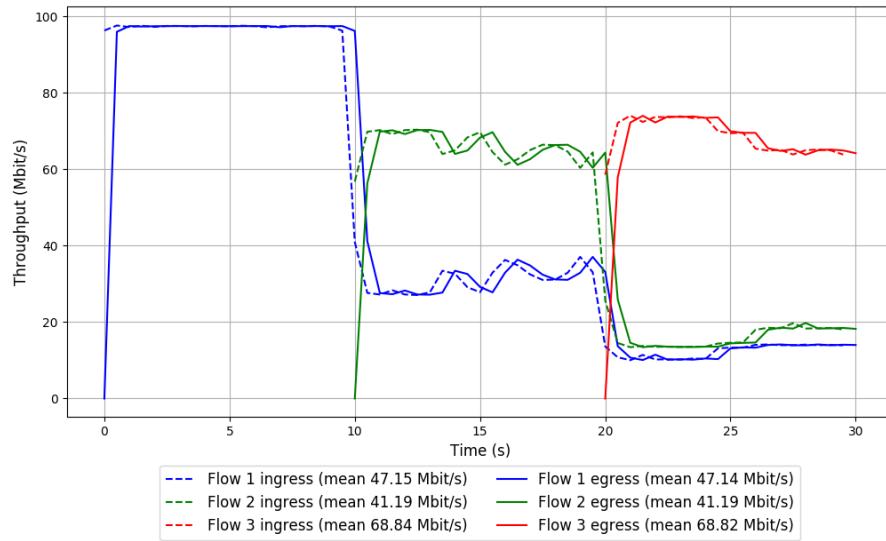


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-17 12:20:51
End at: 2019-01-17 12:21:21
Local clock offset: -5.481 ms
Remote clock offset: 1.475 ms

# Below is generated by plot.py at 2019-01-17 14:19:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 4.855 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.14 Mbit/s
95th percentile per-packet one-way delay: 3.060 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.19 Mbit/s
95th percentile per-packet one-way delay: 4.801 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.82 Mbit/s
95th percentile per-packet one-way delay: 5.114 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

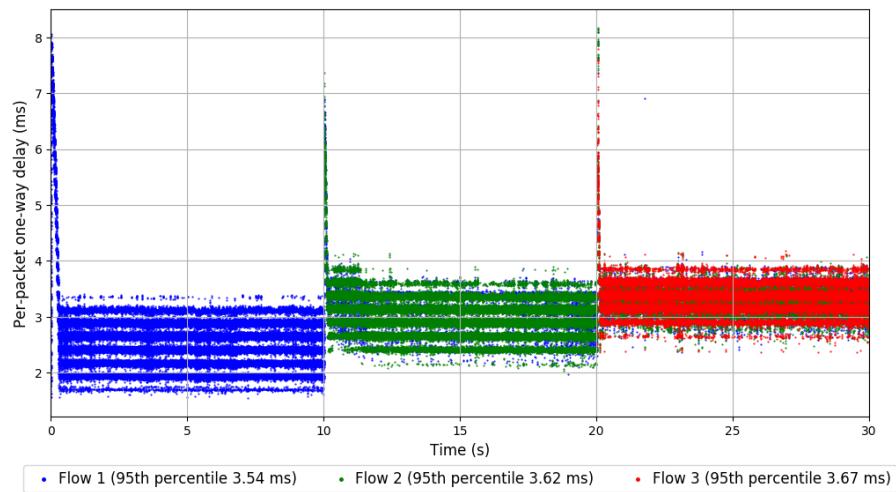
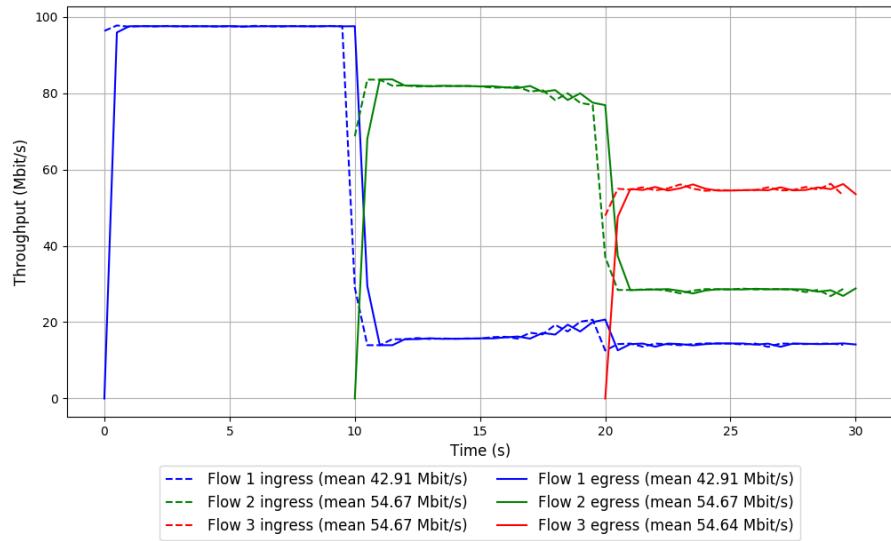


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-17 12:44:46
End at: 2019-01-17 12:45:16
Local clock offset: -5.712 ms
Remote clock offset: 1.294 ms

# Below is generated by plot.py at 2019-01-17 14:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 3.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.91 Mbit/s
95th percentile per-packet one-way delay: 3.539 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.67 Mbit/s
95th percentile per-packet one-way delay: 3.617 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 54.64 Mbit/s
95th percentile per-packet one-way delay: 3.671 ms
Loss rate: 0.01%
```

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

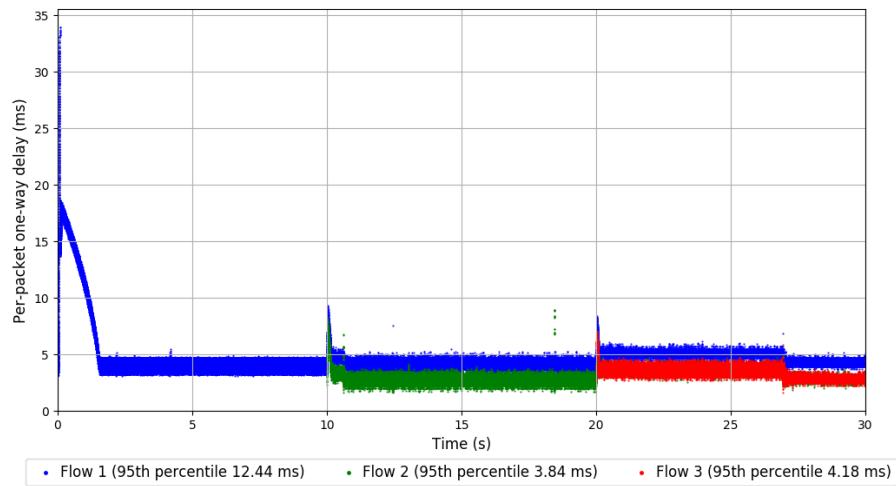
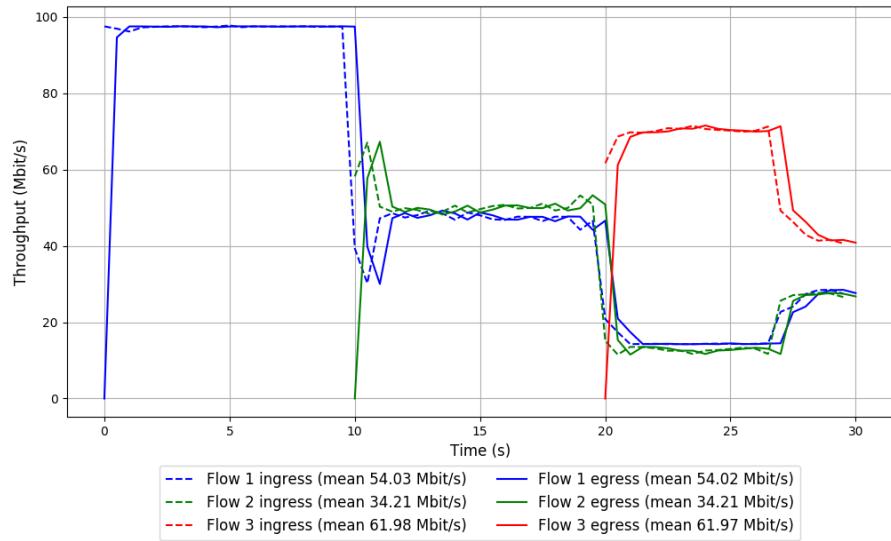


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-17 13:08:40
End at: 2019-01-17 13:09:10
Local clock offset: -4.68 ms
Remote clock offset: 1.308 ms

# Below is generated by plot.py at 2019-01-17 14:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 6.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.02 Mbit/s
95th percentile per-packet one-way delay: 12.440 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.21 Mbit/s
95th percentile per-packet one-way delay: 3.839 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.97 Mbit/s
95th percentile per-packet one-way delay: 4.185 ms
Loss rate: 0.00%
```

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

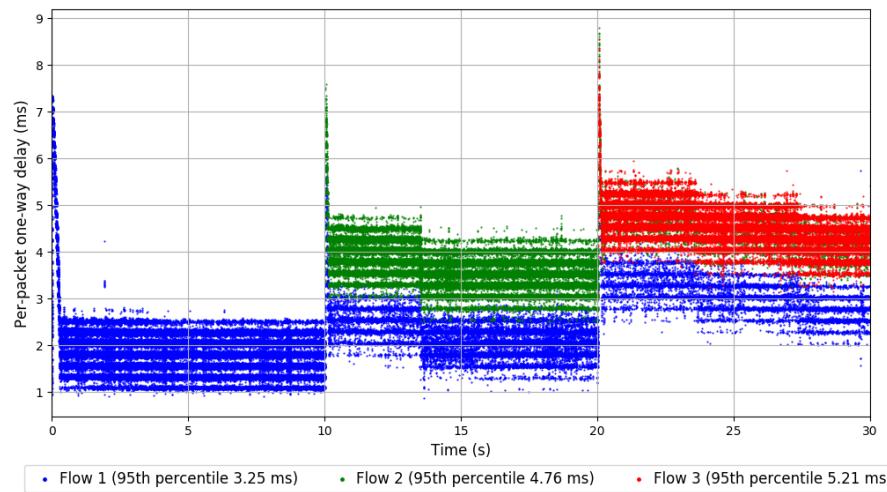
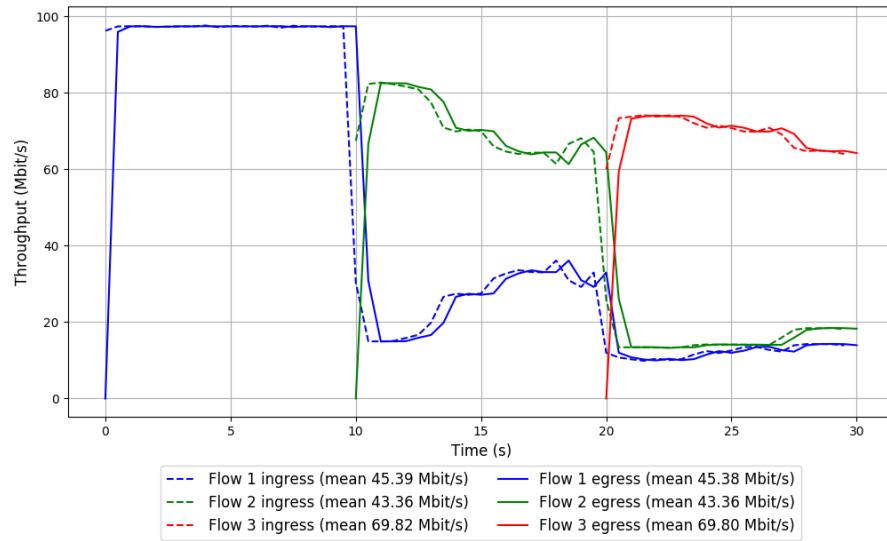


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-17 13:32:34
End at: 2019-01-17 13:33:04
Local clock offset: -4.601 ms
Remote clock offset: 1.561 ms

# Below is generated by plot.py at 2019-01-17 14:19:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 4.979 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.38 Mbit/s
95th percentile per-packet one-way delay: 3.254 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.36 Mbit/s
95th percentile per-packet one-way delay: 4.759 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.80 Mbit/s
95th percentile per-packet one-way delay: 5.213 ms
Loss rate: 0.02%
```

Run 4: Report of TCP Vegas — Data Link

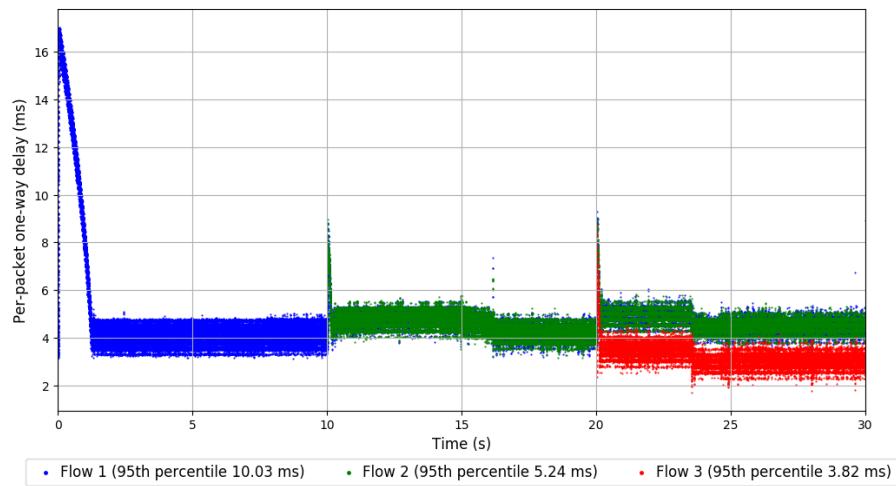
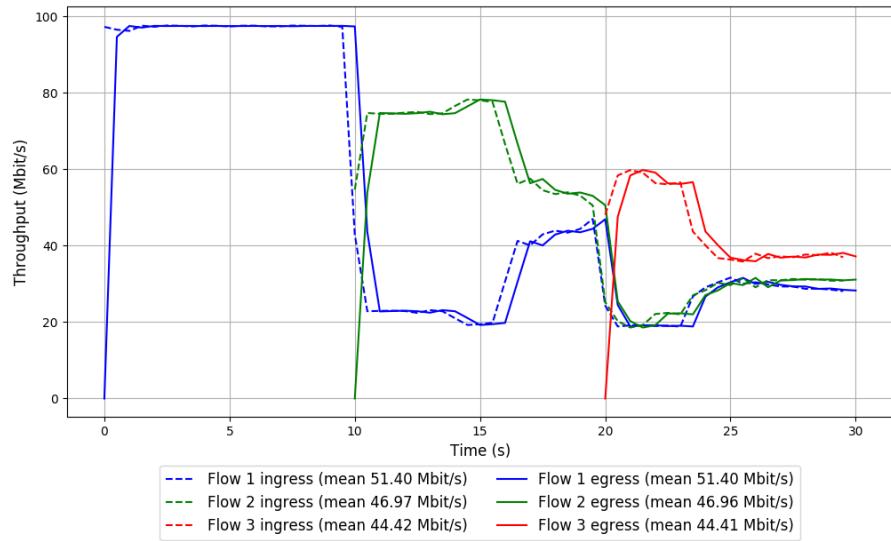


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-17 13:56:29
End at: 2019-01-17 13:57:00
Local clock offset: -4.81 ms
Remote clock offset: 1.516 ms

# Below is generated by plot.py at 2019-01-17 14:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 5.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.40 Mbit/s
95th percentile per-packet one-way delay: 10.026 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.96 Mbit/s
95th percentile per-packet one-way delay: 5.239 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.41 Mbit/s
95th percentile per-packet one-way delay: 3.823 ms
Loss rate: 0.01%
```

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

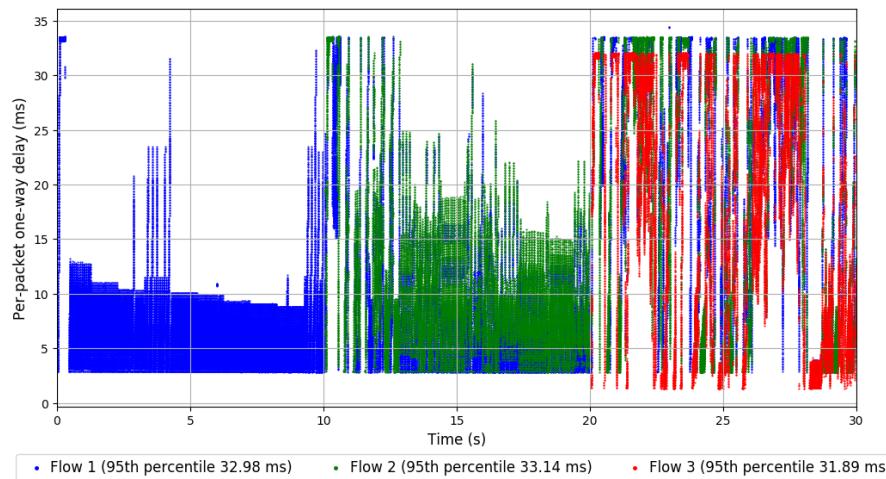
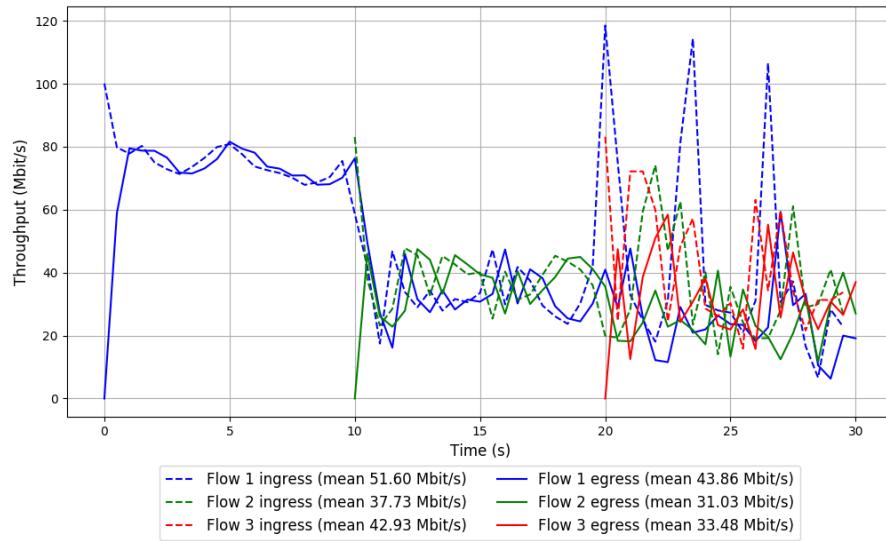


Run 1: Statistics of Verus

```
Start at: 2019-01-17 12:08:16
End at: 2019-01-17 12:08:46
Local clock offset: -5.461 ms
Remote clock offset: 1.488 ms

# Below is generated by plot.py at 2019-01-17 14:19:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.60 Mbit/s
95th percentile per-packet one-way delay: 32.582 ms
Loss rate: 16.83%
-- Flow 1:
Average throughput: 43.86 Mbit/s
95th percentile per-packet one-way delay: 32.975 ms
Loss rate: 14.98%
-- Flow 2:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 33.137 ms
Loss rate: 17.73%
-- Flow 3:
Average throughput: 33.48 Mbit/s
95th percentile per-packet one-way delay: 31.892 ms
Loss rate: 21.92%
```

Run 1: Report of Verus — Data Link

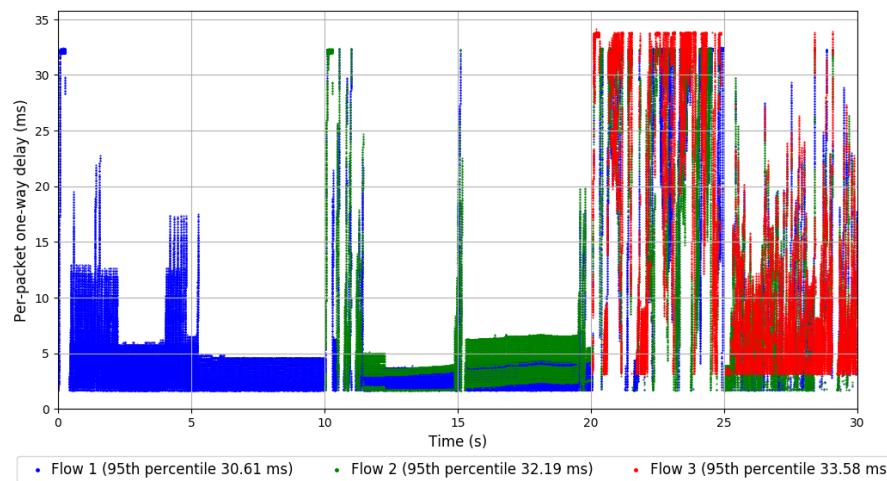
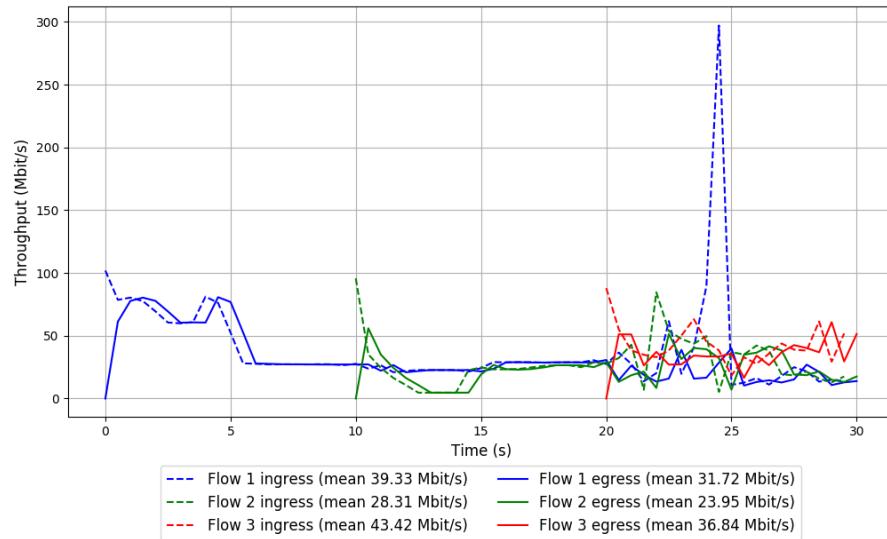


Run 2: Statistics of Verus

```
Start at: 2019-01-17 12:32:10
End at: 2019-01-17 12:32:40
Local clock offset: -5.482 ms
Remote clock offset: 1.473 ms

# Below is generated by plot.py at 2019-01-17 14:19:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.88 Mbit/s
95th percentile per-packet one-way delay: 32.184 ms
Loss rate: 17.43%
-- Flow 1:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 30.614 ms
Loss rate: 19.30%
-- Flow 2:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 32.189 ms
Loss rate: 15.36%
-- Flow 3:
Average throughput: 36.84 Mbit/s
95th percentile per-packet one-way delay: 33.583 ms
Loss rate: 15.05%
```

## Run 2: Report of Verus — Data Link

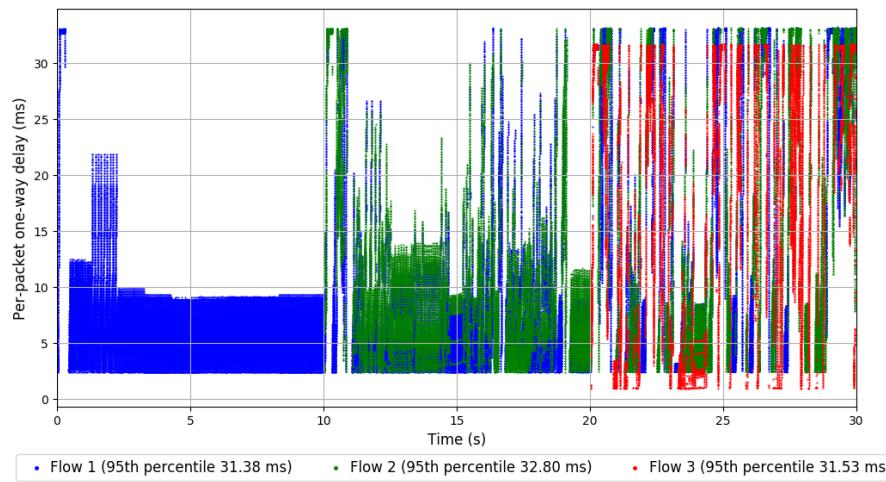
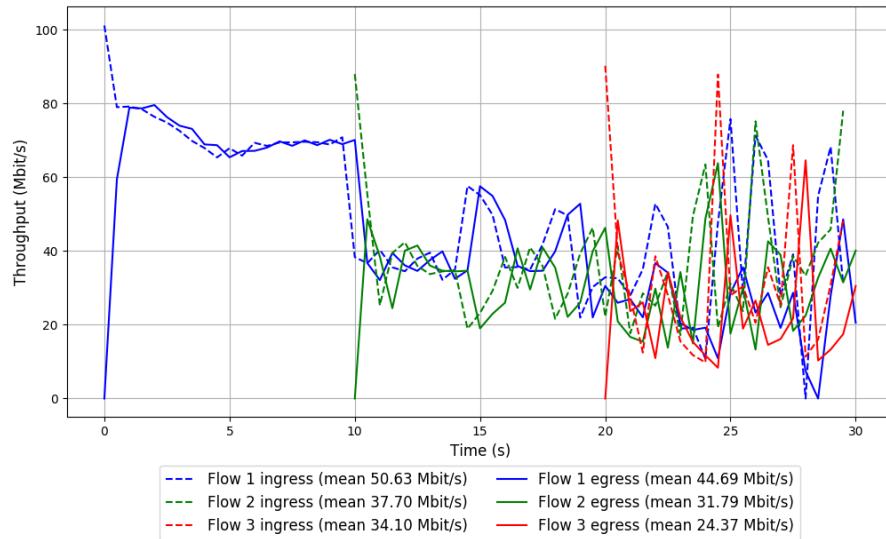


Run 3: Statistics of Verus

```
Start at: 2019-01-17 12:56:04
End at: 2019-01-17 12:56:34
Local clock offset: -4.169 ms
Remote clock offset: 1.349 ms

# Below is generated by plot.py at 2019-01-17 14:19:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.94 Mbit/s
95th percentile per-packet one-way delay: 31.855 ms
Loss rate: 14.95%
-- Flow 1:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 31.376 ms
Loss rate: 11.67%
-- Flow 2:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 32.805 ms
Loss rate: 15.54%
-- Flow 3:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 31.531 ms
Loss rate: 28.38%
```

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

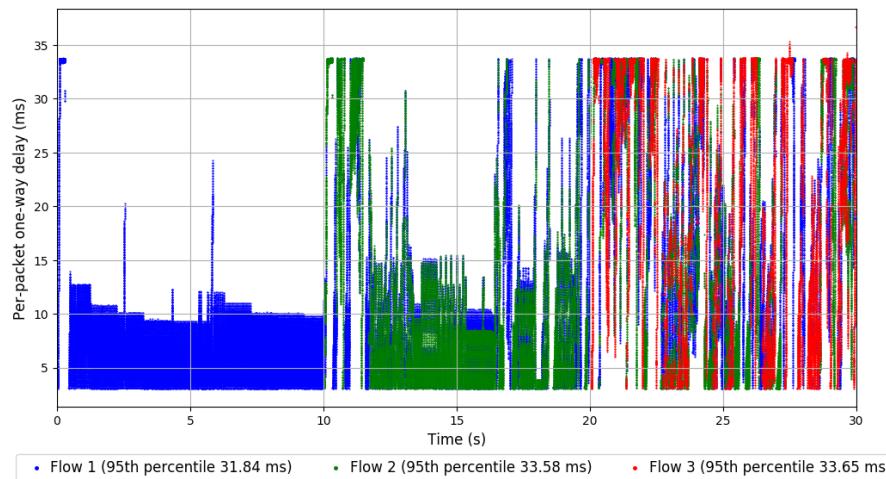
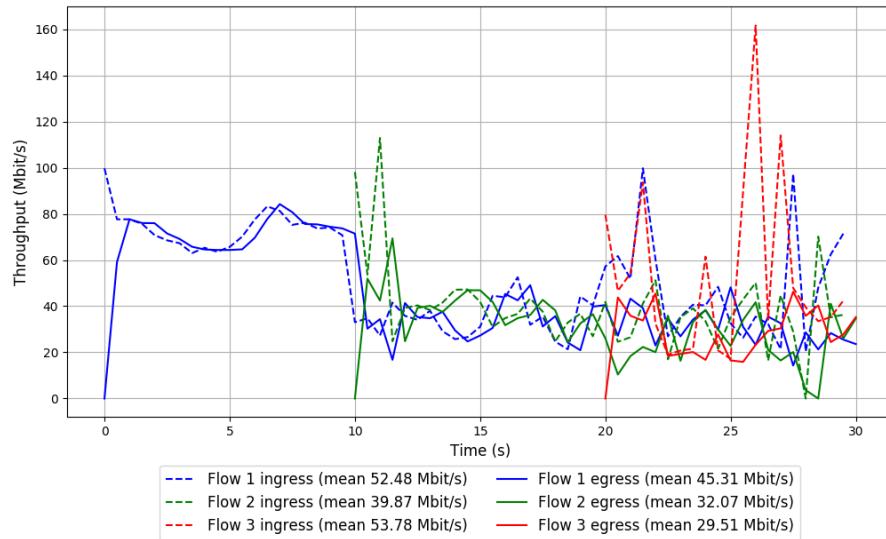


Run 4: Statistics of Verus

```
Start at: 2019-01-17 13:19:59
End at: 2019-01-17 13:20:29
Local clock offset: -4.978 ms
Remote clock offset: 1.343 ms

# Below is generated by plot.py at 2019-01-17 14:20:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.32 Mbit/s
95th percentile per-packet one-way delay: 33.512 ms
Loss rate: 20.96%
-- Flow 1:
Average throughput: 45.31 Mbit/s
95th percentile per-packet one-way delay: 31.837 ms
Loss rate: 13.58%
-- Flow 2:
Average throughput: 32.07 Mbit/s
95th percentile per-packet one-way delay: 33.584 ms
Loss rate: 19.49%
-- Flow 3:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 33.653 ms
Loss rate: 44.95%
```

## Run 4: Report of Verus — Data Link

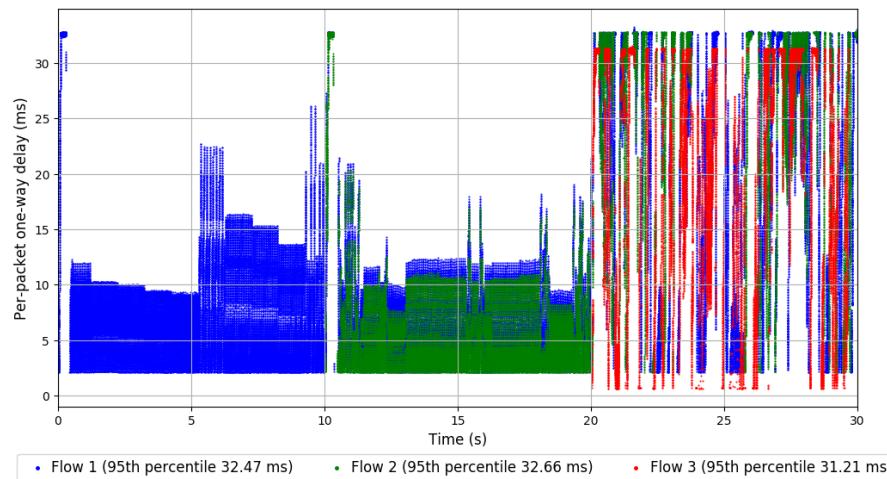
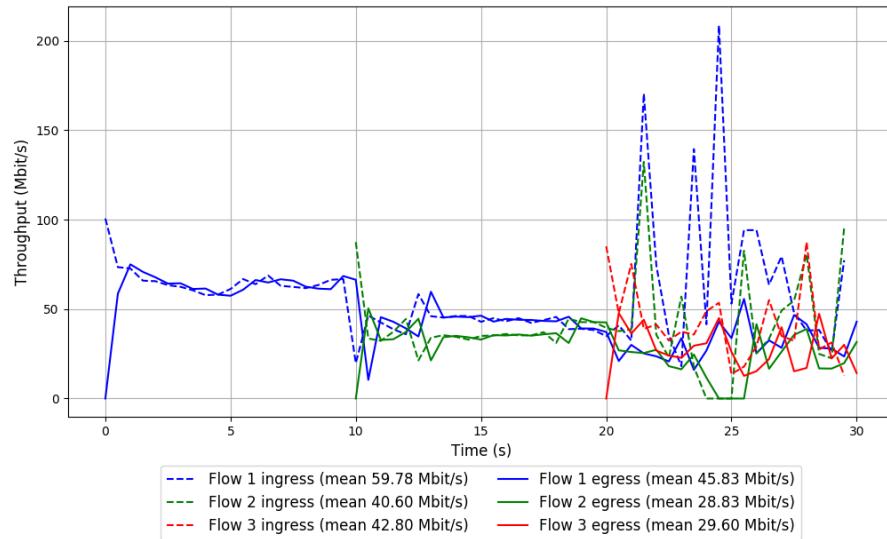


Run 5: Statistics of Verus

```
Start at: 2019-01-17 13:43:53
End at: 2019-01-17 13:44:23
Local clock offset: -4.869 ms
Remote clock offset: 1.457 ms

# Below is generated by plot.py at 2019-01-17 14:20:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.52 Mbit/s
95th percentile per-packet one-way delay: 32.486 ms
Loss rate: 25.99%
-- Flow 1:
Average throughput: 45.83 Mbit/s
95th percentile per-packet one-way delay: 32.467 ms
Loss rate: 23.26%
-- Flow 2:
Average throughput: 28.83 Mbit/s
95th percentile per-packet one-way delay: 32.664 ms
Loss rate: 28.87%
-- Flow 3:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 31.213 ms
Loss rate: 32.08%
```

Run 5: Report of Verus — Data Link

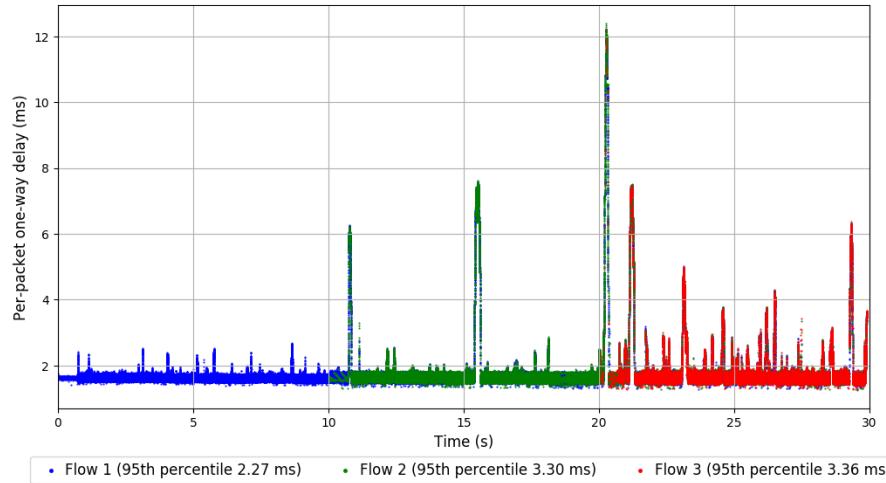
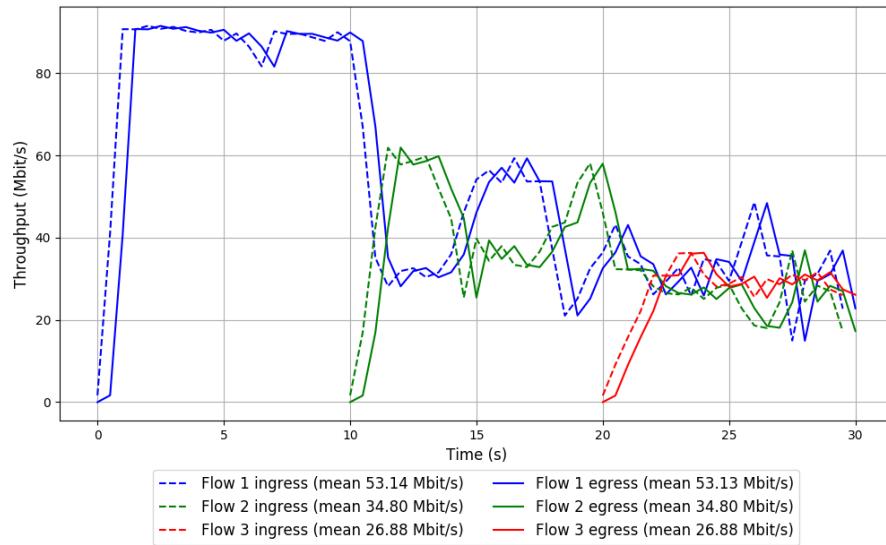


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-17 12:10:33
End at: 2019-01-17 12:11:03
Local clock offset: -5.896 ms
Remote clock offset: 1.561 ms

# Below is generated by plot.py at 2019-01-17 14:20:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.15 Mbit/s
95th percentile per-packet one-way delay: 2.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.13 Mbit/s
95th percentile per-packet one-way delay: 2.274 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.80 Mbit/s
95th percentile per-packet one-way delay: 3.299 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.88 Mbit/s
95th percentile per-packet one-way delay: 3.362 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

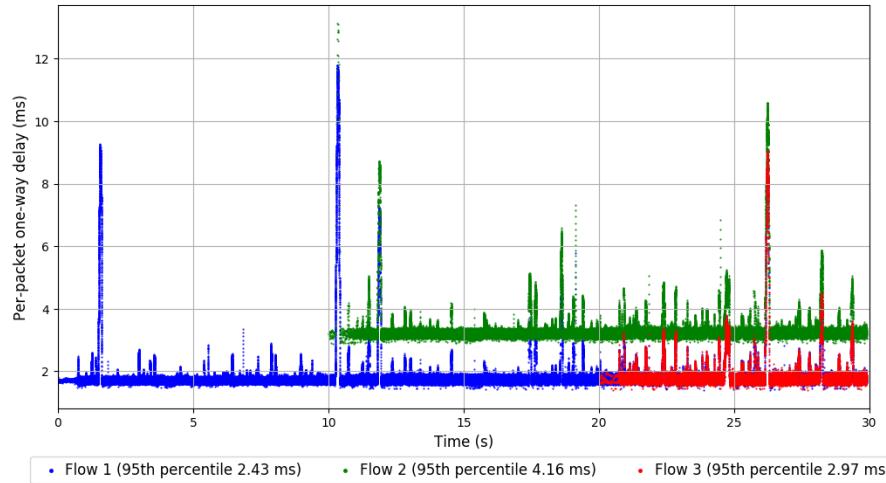
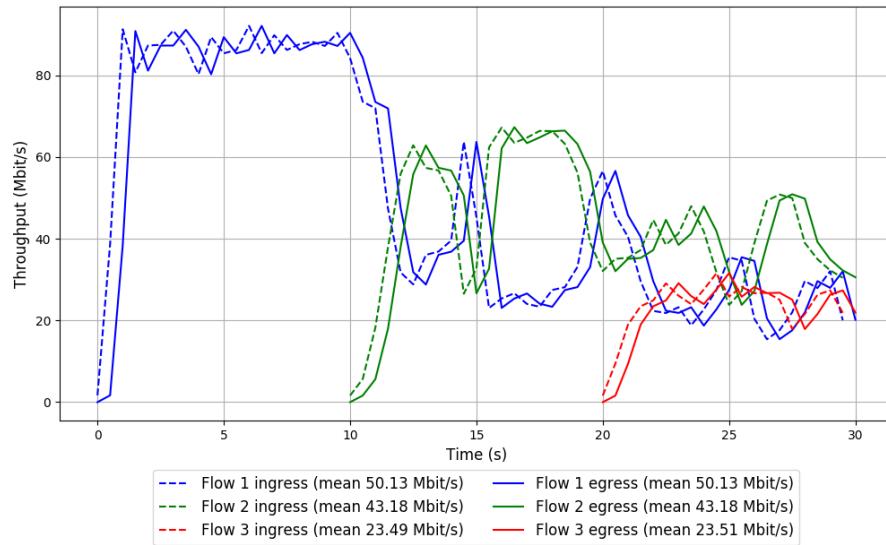


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-17 12:34:27
End at: 2019-01-17 12:34:57
Local clock offset: -5.498 ms
Remote clock offset: 1.371 ms

# Below is generated by plot.py at 2019-01-17 14:20:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.61 Mbit/s
95th percentile per-packet one-way delay: 3.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.13 Mbit/s
95th percentile per-packet one-way delay: 2.428 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.18 Mbit/s
95th percentile per-packet one-way delay: 4.162 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 23.51 Mbit/s
95th percentile per-packet one-way delay: 2.973 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

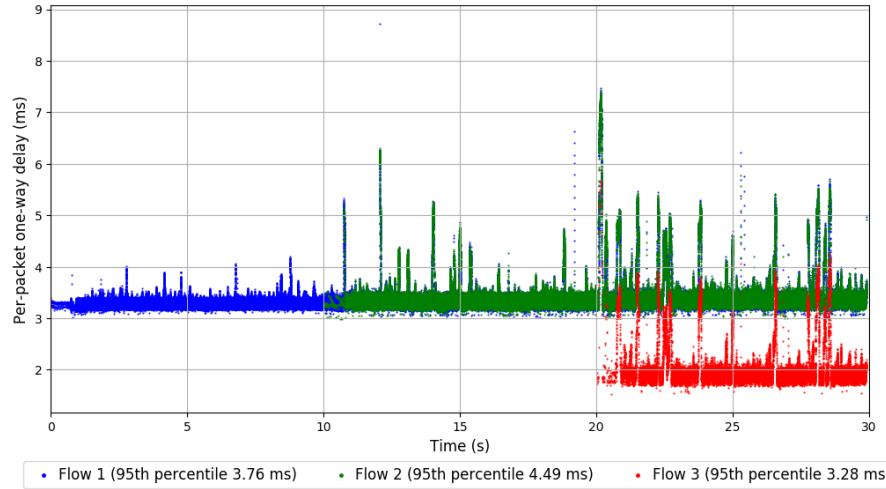
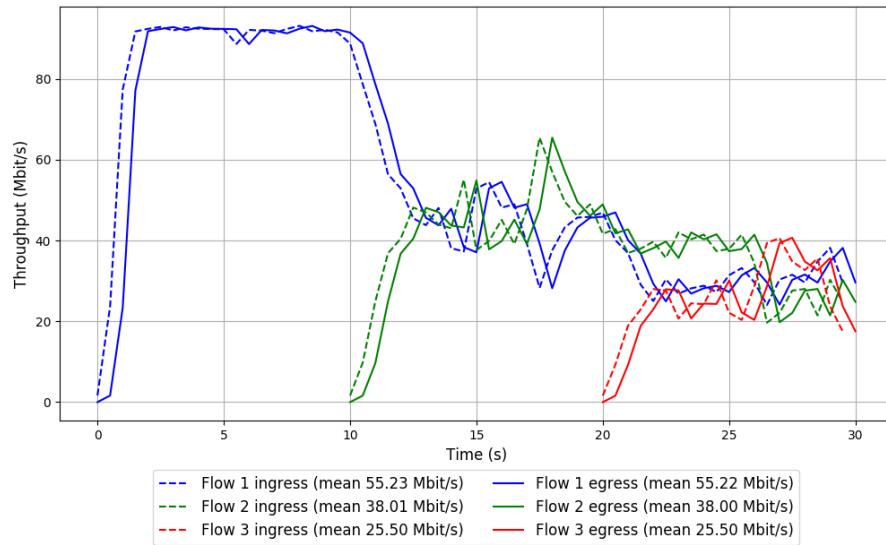


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-17 12:58:22
End at: 2019-01-17 12:58:52
Local clock offset: -4.841 ms
Remote clock offset: 1.325 ms

# Below is generated by plot.py at 2019-01-17 14:20:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.93 Mbit/s
95th percentile per-packet one-way delay: 3.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.22 Mbit/s
95th percentile per-packet one-way delay: 3.756 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 4.488 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.50 Mbit/s
95th percentile per-packet one-way delay: 3.283 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

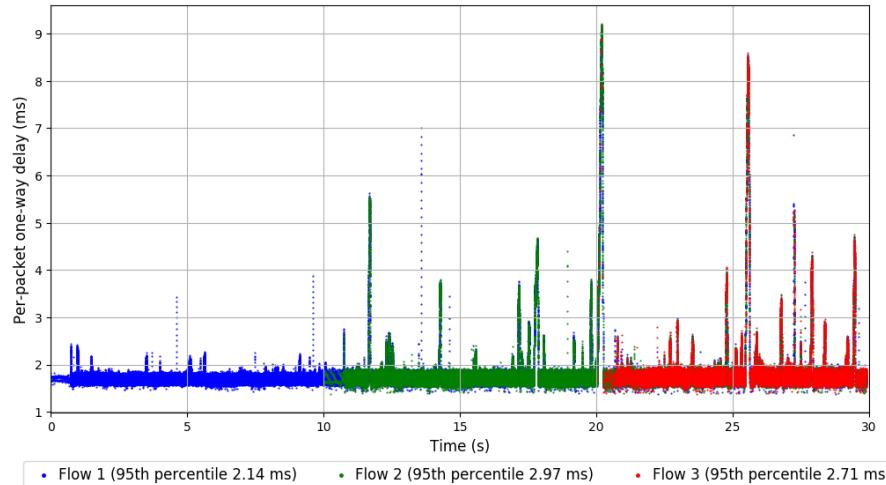
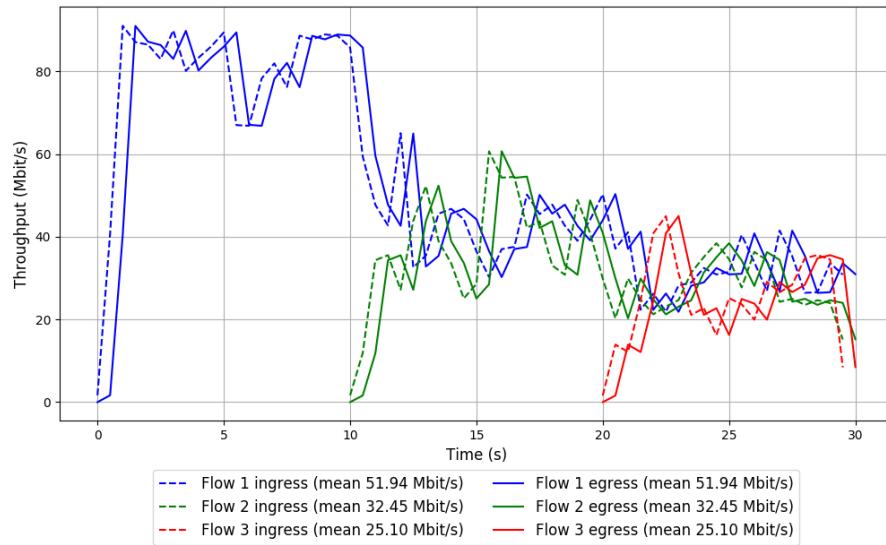


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-17 13:22:17
End at: 2019-01-17 13:22:47
Local clock offset: -5.039 ms
Remote clock offset: 1.352 ms

# Below is generated by plot.py at 2019-01-17 14:20:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.81 Mbit/s
95th percentile per-packet one-way delay: 2.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.94 Mbit/s
95th percentile per-packet one-way delay: 2.144 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 2.966 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.10 Mbit/s
95th percentile per-packet one-way delay: 2.712 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

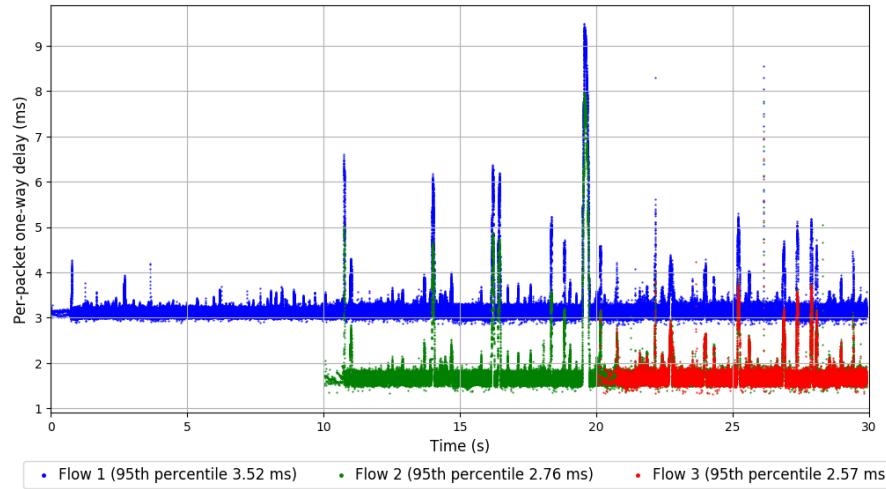
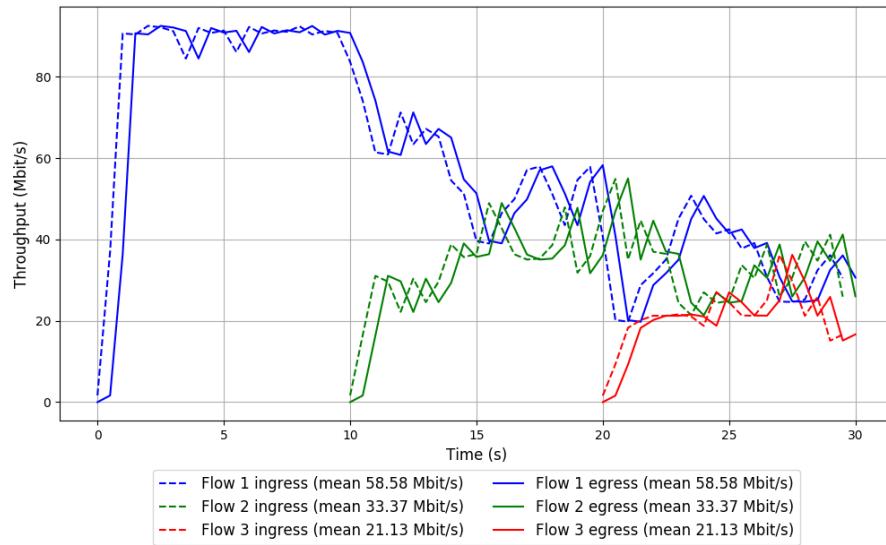


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-17 13:46:11
End at: 2019-01-17 13:46:41
Local clock offset: -5.68 ms
Remote clock offset: 1.581 ms

# Below is generated by plot.py at 2019-01-17 14:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 3.395 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.58 Mbit/s
95th percentile per-packet one-way delay: 3.517 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.37 Mbit/s
95th percentile per-packet one-way delay: 2.764 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 2.573 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

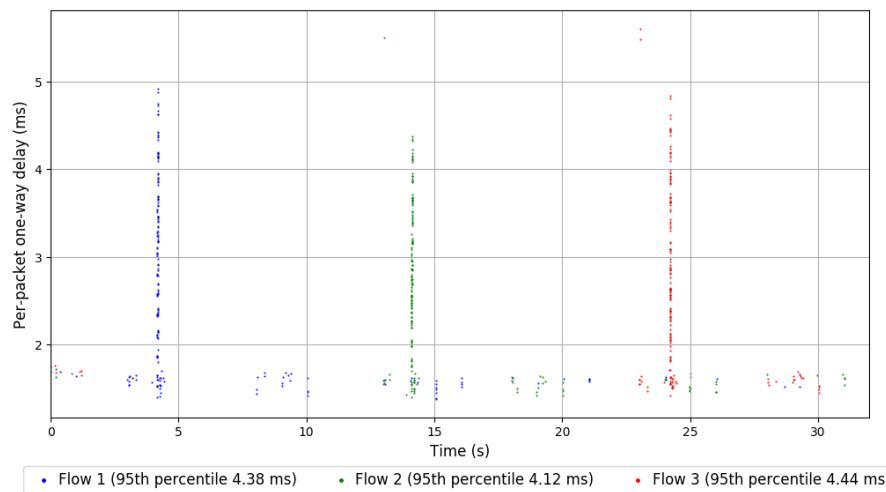
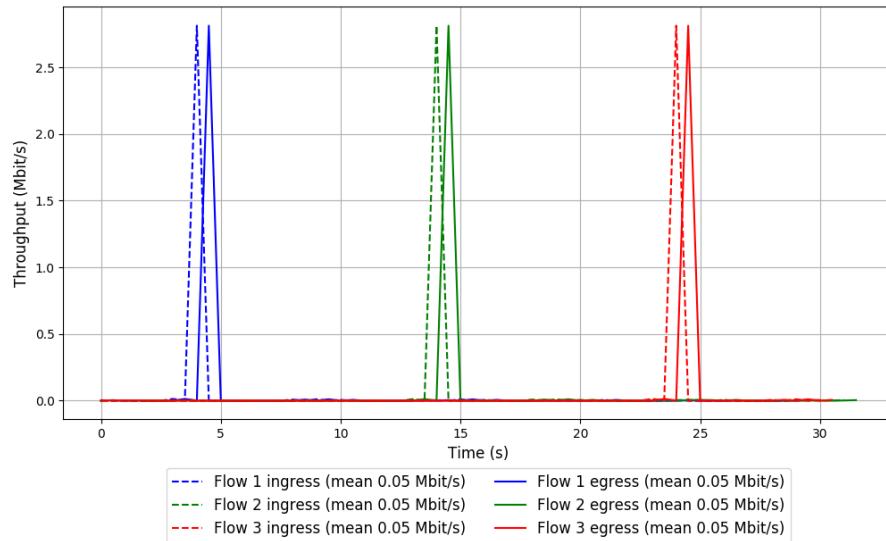


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-17 12:31:05
End at: 2019-01-17 12:31:35
Local clock offset: -5.43 ms
Remote clock offset: 1.367 ms

# Below is generated by plot.py at 2019-01-17 14:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.334 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.381 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.117 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.444 ms
Loss rate: 0.00%
```

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

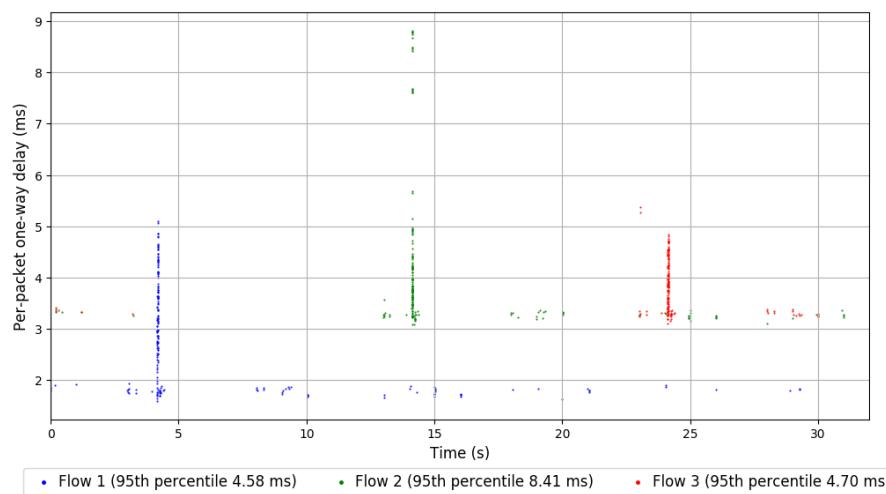
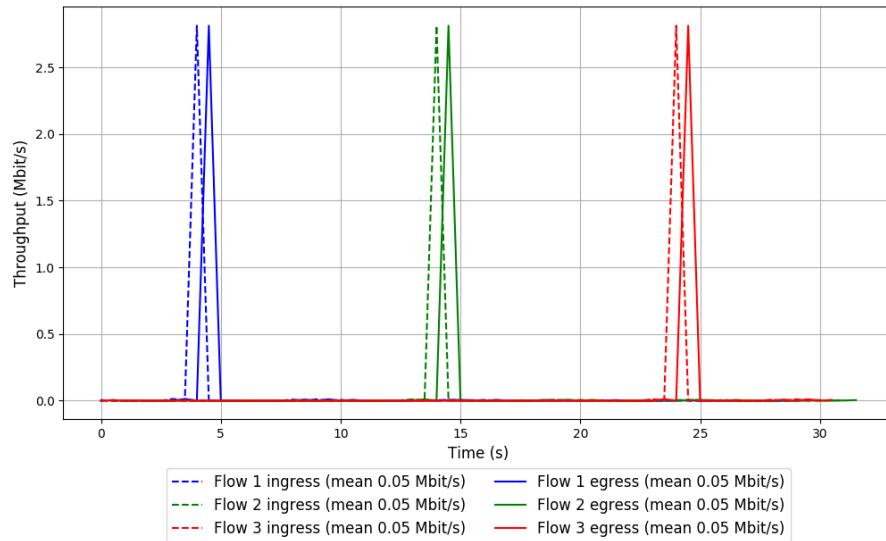


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-17 12:54:59
End at: 2019-01-17 12:55:29
Local clock offset: -5.007 ms
Remote clock offset: 1.341 ms

# Below is generated by plot.py at 2019-01-17 14:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.585 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 8.413 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.699 ms
Loss rate: 0.00%
```

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

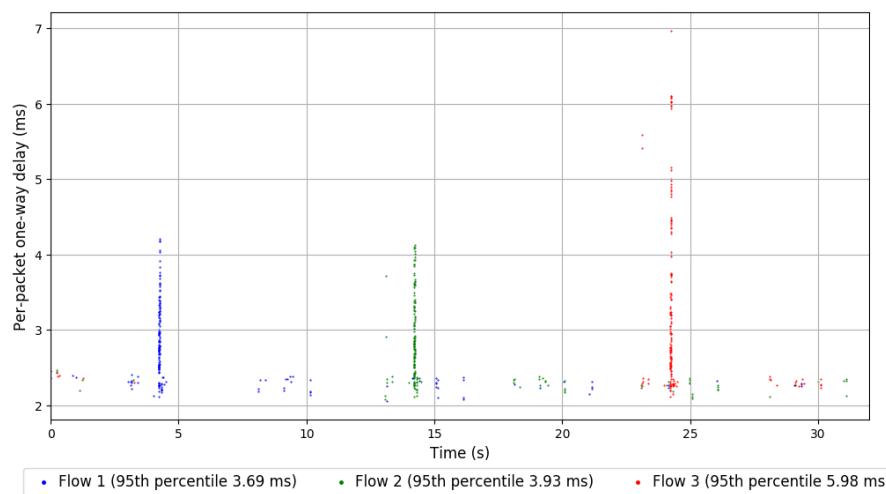
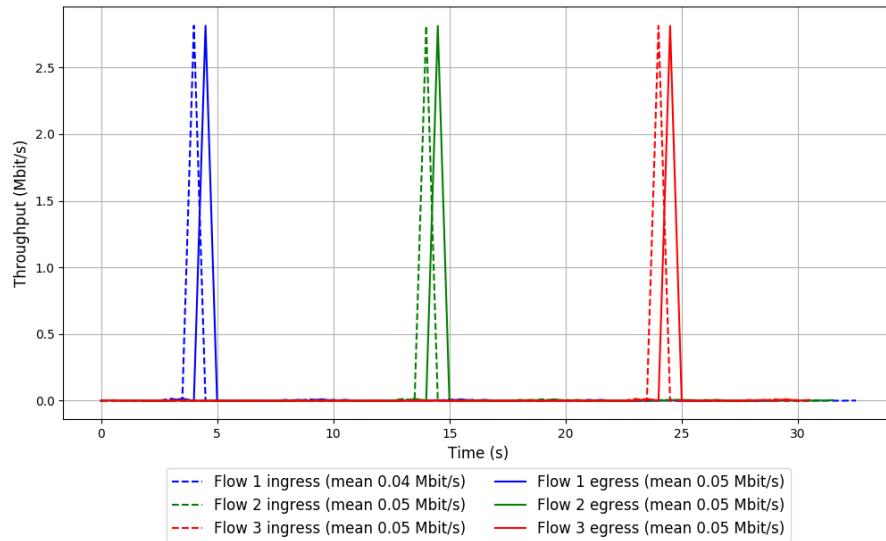


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-17 13:18:54
End at: 2019-01-17 13:19:24
Local clock offset: -4.127 ms
Remote clock offset: 1.299 ms

# Below is generated by plot.py at 2019-01-17 14:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.418 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.685 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.929 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.977 ms
Loss rate: 0.00%
```

### Run 3: Report of WebRTC media — Data Link

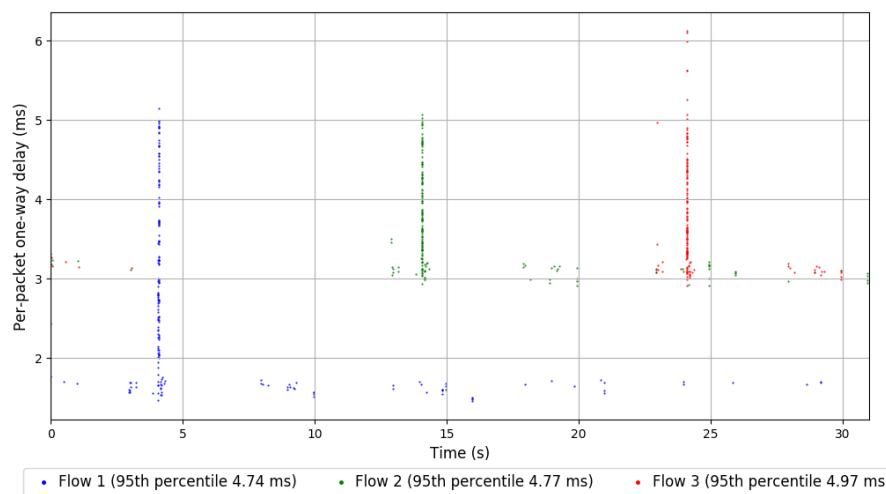
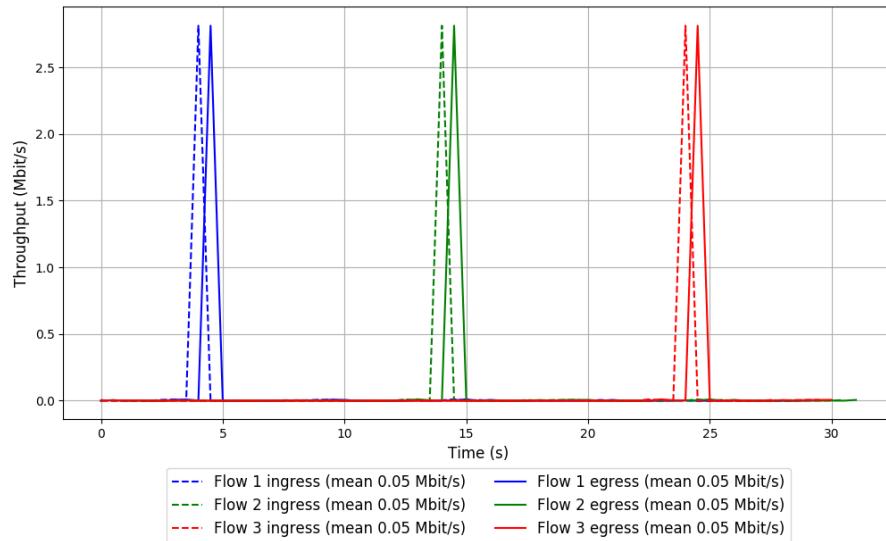


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-17 13:42:48
End at: 2019-01-17 13:43:18
Local clock offset: -5.591 ms
Remote clock offset: 1.618 ms

# Below is generated by plot.py at 2019-01-17 14:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.835 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.741 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.770 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.968 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-17 14:06:42
End at: 2019-01-17 14:07:12
Local clock offset: -3.669 ms
Remote clock offset: 1.374 ms

# Below is generated by plot.py at 2019-01-17 14:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 3.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.776 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.664 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.121 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

