

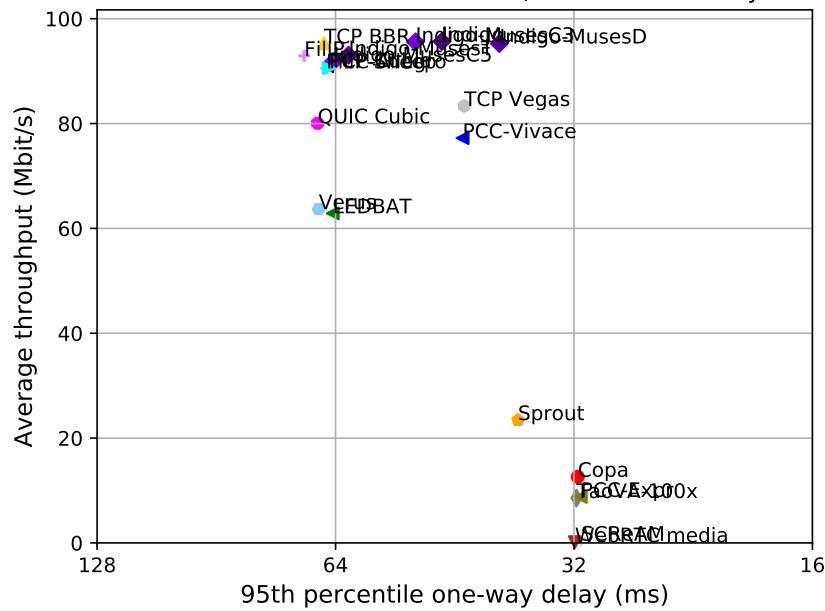
## Pantheon Report

Generated at 2019-03-27 03:25:00 (UTC).  
Data path: AWS California 2 on `ens5` (*local*) → Mexico on `em1` (*remote*).  
Repeated the test of 21 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.  
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

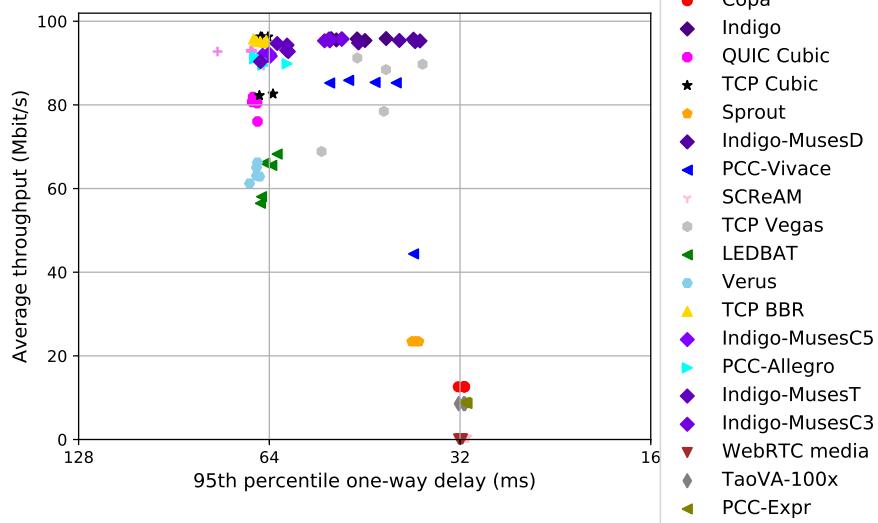
```
System info:  
Linux 4.15.0-1034-aws  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee  
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966  
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
M receiver/src/buffer.h  
M receiver/src/core.cpp  
M sender/src/buffer.h  
M sender/src/core.cpp  
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2  
M src/ScreamClient  
M src/ScreamServer  
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26  
M src/examples/cellsim.cc  
M src/examples/sproutbt2.cc  
M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
M src/verus.hpp  
M tools/plot.py
```

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

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



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



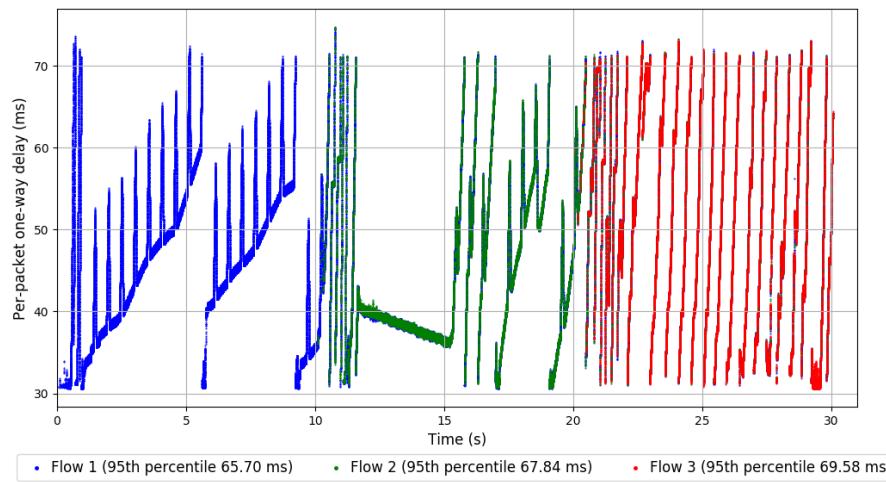
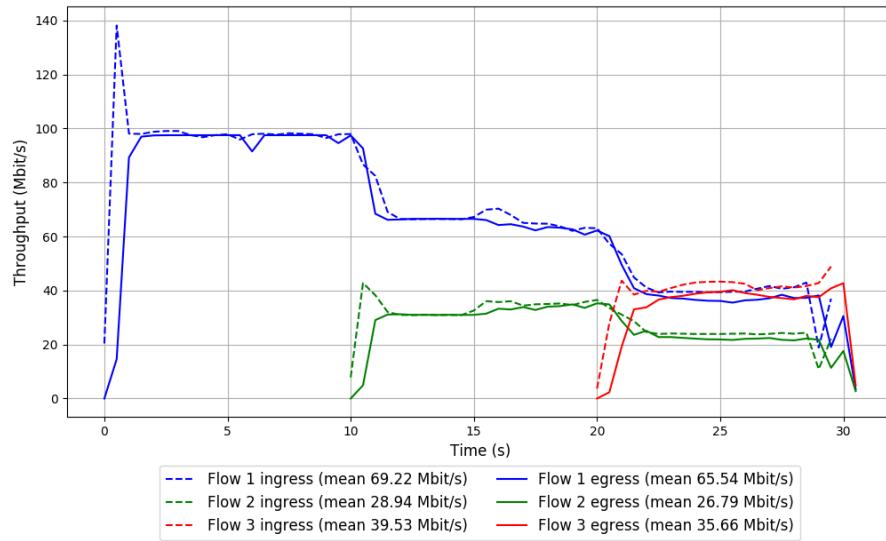
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	62.57	31.96	34.40	65.10	67.19	68.12	5.46	7.95	9.40
Copa		8.99	5.45	0.00	31.83	31.39	31.42	69.63	73.20	96.54
TCP Cubic		57.88	36.35	25.91	63.30	65.93	62.42	1.16	0.67	0.60
FillP		57.84	41.56	22.71	68.17	71.59	71.58	28.81	46.40	53.70
FillP-Sheep		58.14	37.09	23.53	64.20	67.25	67.00	8.26	15.87	16.80
Indigo		64.53	31.78	30.89	44.30	49.25	50.30	0.01	0.01	0.00
Indigo-MusesC3		52.83	49.23	36.03	46.43	49.48	60.46	0.39	1.00	3.65
Indigo-MusesC5		58.52	50.34	1.91	62.82	66.03	66.52	10.82	18.63	29.76
Indigo-MusesD		56.25	43.70	35.30	39.16	38.02	42.87	0.08	0.04	0.00
Indigo-MusesT		49.71	57.48	19.55	56.79	62.96	66.45	8.11	16.91	29.87
LEDBAT		39.16	27.38	16.89	63.64	65.99	63.08	0.07	0.26	0.18
PCC-Allegro		78.30	14.12	8.67	64.71	66.59	67.06	4.19	5.11	5.43
PCC-Expr		0.03	10.13	6.15	31.18	31.39	31.33	85.71	48.31	38.23
QUIC Cubic		55.45	28.04	18.16	67.17	67.77	67.88	3.51	1.78	1.31
SCReAM		0.21	0.21	0.22	31.33	31.33	31.39	0.00	0.00	0.00
Sprout		11.80	11.73	11.55	37.33	37.80	38.18	0.05	0.00	0.00
TaoVA-100x		0.00	9.58	6.58	31.11	32.18	31.51	95.92	75.33	36.50
TCP Vegas		48.87	30.89	41.78	43.63	41.76	37.85	0.90	0.47	0.41
Verus		37.74	26.36	27.33	66.55	67.92	67.77	24.84	40.57	36.59
PCC-Vivace		58.96	20.89	13.22	42.86	46.53	49.97	0.01	0.05	0.13
WebRTC media		0.05	0.05	0.05	31.83	31.84	32.00	0.02	0.00	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-27 01:23:58
End at: 2019-03-27 01:24:28
Local clock offset: 0.202 ms
Remote clock offset: -2.049 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 67.066 ms
Loss rate: 6.19%
-- Flow 1:
Average throughput: 65.54 Mbit/s
95th percentile per-packet one-way delay: 65.697 ms
Loss rate: 5.20%
-- Flow 2:
Average throughput: 26.79 Mbit/s
95th percentile per-packet one-way delay: 67.839 ms
Loss rate: 7.29%
-- Flow 3:
Average throughput: 35.66 Mbit/s
95th percentile per-packet one-way delay: 69.584 ms
Loss rate: 9.76%
```

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

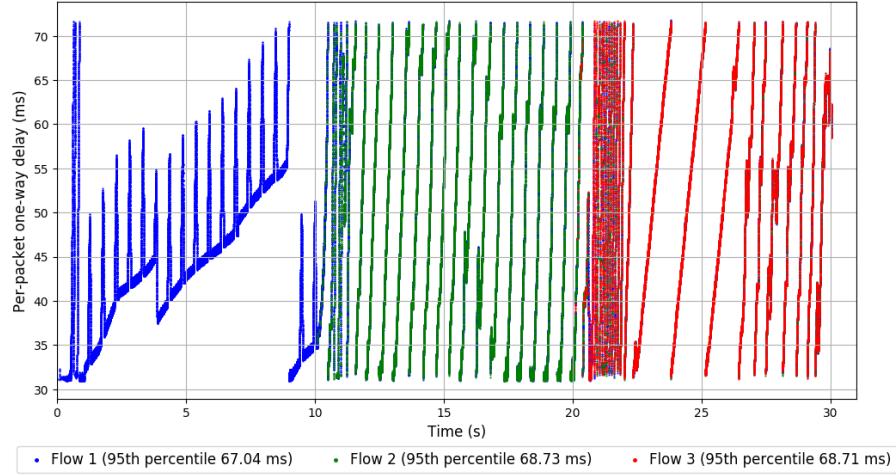
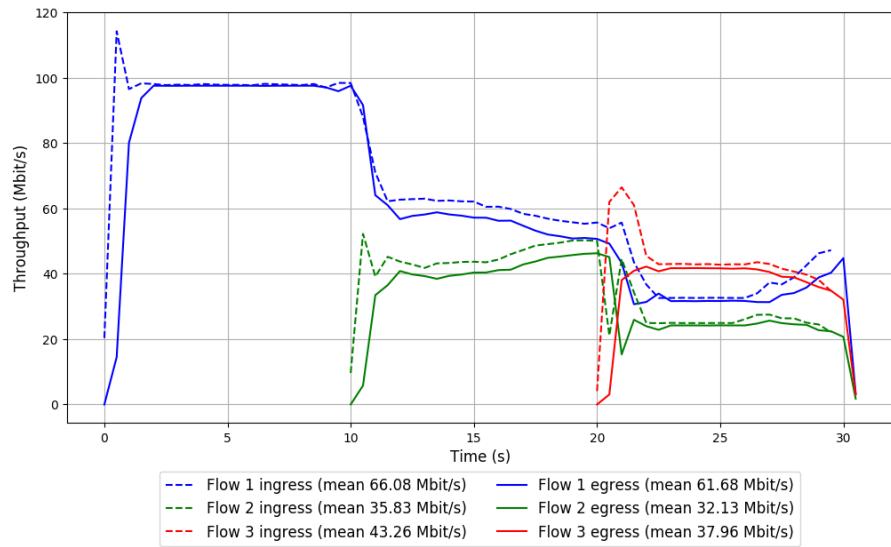


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-27 01:49:36
End at: 2019-03-27 01:50:06
Local clock offset: 0.31 ms
Remote clock offset: -0.686 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 67.766 ms
Loss rate: 8.16%
-- Flow 1:
Average throughput: 61.68 Mbit/s
95th percentile per-packet one-way delay: 67.039 ms
Loss rate: 6.57%
-- Flow 2:
Average throughput: 32.13 Mbit/s
95th percentile per-packet one-way delay: 68.732 ms
Loss rate: 10.21%
-- Flow 3:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 68.706 ms
Loss rate: 12.02%
```

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

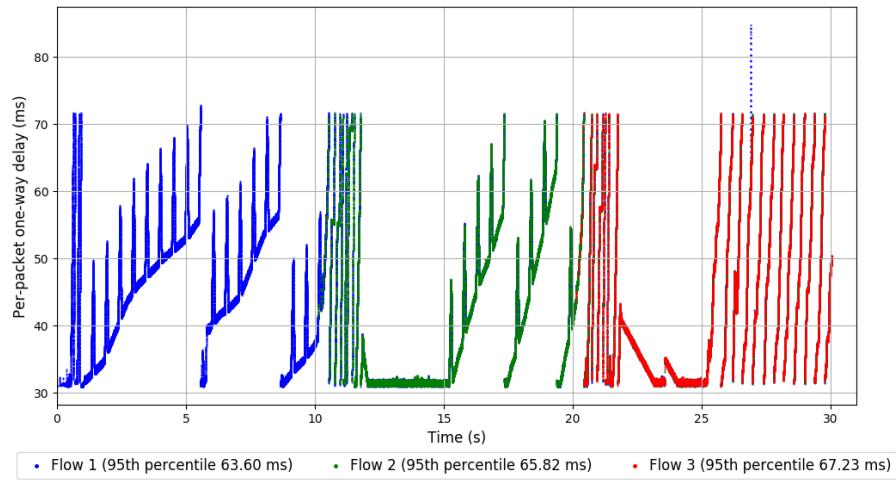
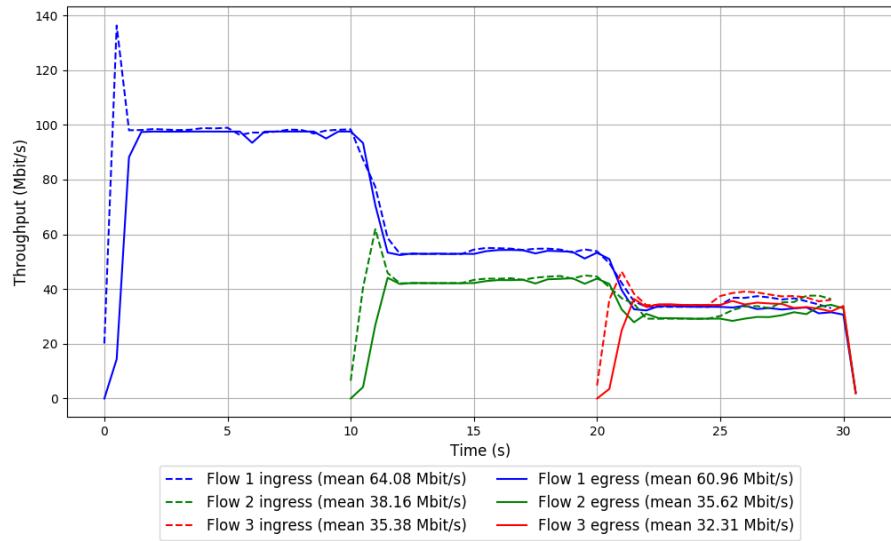


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-27 02:15:19
End at: 2019-03-27 02:15:49
Local clock offset: 0.035 ms
Remote clock offset: 0.383 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 64.712 ms
Loss rate: 5.71%
-- Flow 1:
Average throughput: 60.96 Mbit/s
95th percentile per-packet one-way delay: 63.598 ms
Loss rate: 4.82%
-- Flow 2:
Average throughput: 35.62 Mbit/s
95th percentile per-packet one-way delay: 65.822 ms
Loss rate: 6.61%
-- Flow 3:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 67.229 ms
Loss rate: 8.59%
```

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

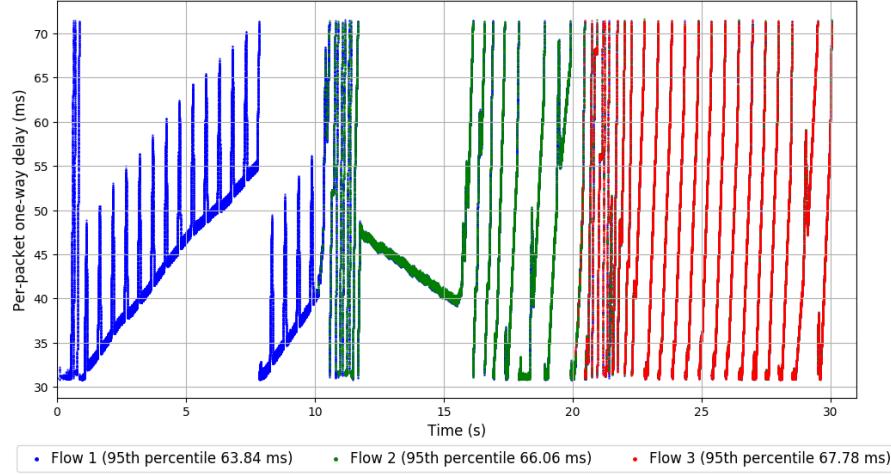
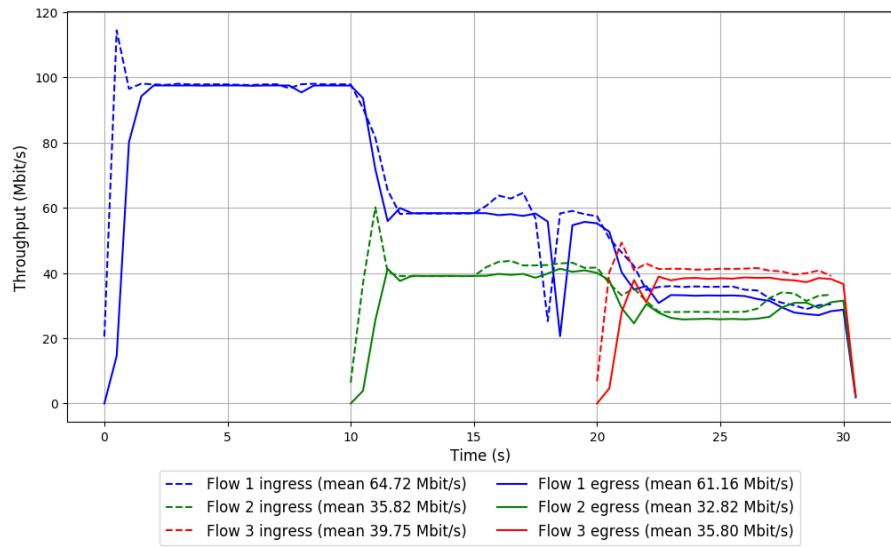


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-27 02:41:08
End at: 2019-03-27 02:41:38
Local clock offset: 0.419 ms
Remote clock offset: 1.088 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 65.160 ms
Loss rate: 6.71%
-- Flow 1:
Average throughput: 61.16 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 5.46%
-- Flow 2:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 66.058 ms
Loss rate: 8.35%
-- Flow 3:
Average throughput: 35.80 Mbit/s
95th percentile per-packet one-way delay: 67.781 ms
Loss rate: 9.84%
```

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

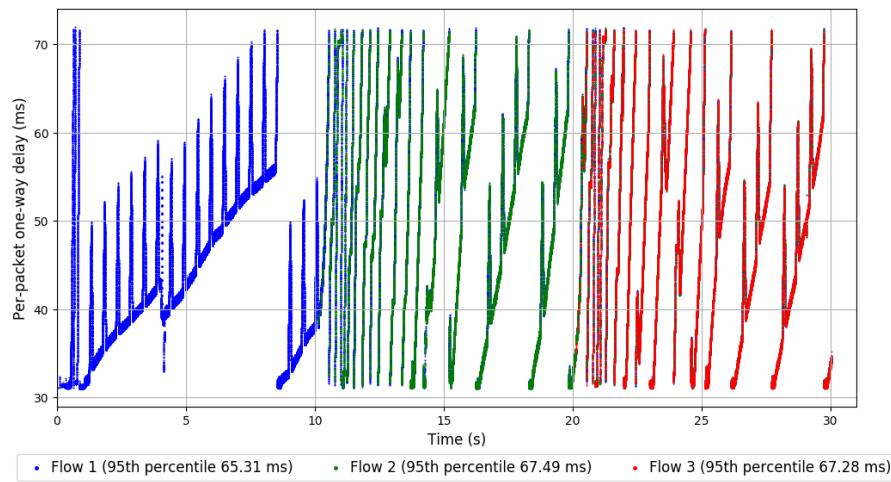
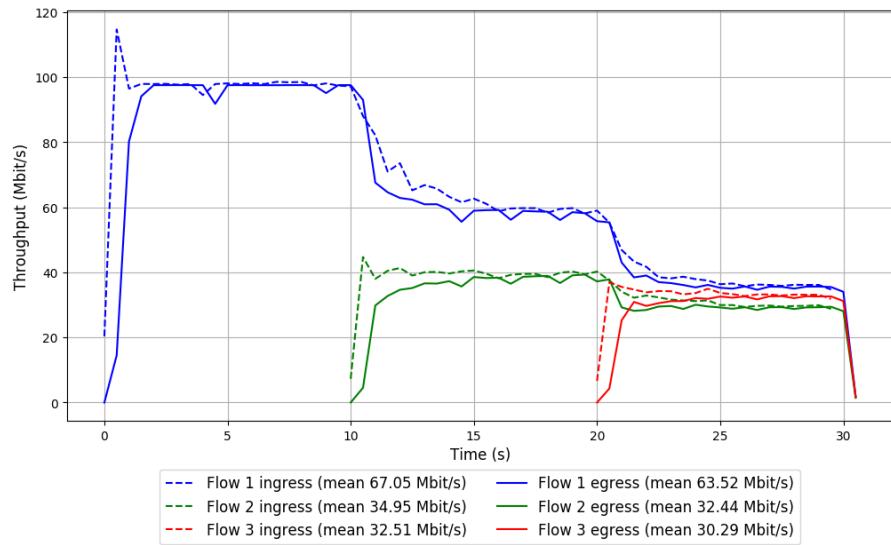


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-27 03:06:28
End at: 2019-03-27 03:06:58
Local clock offset: 0.584 ms
Remote clock offset: 1.945 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.18 Mbit/s
95th percentile per-packet one-way delay: 66.148 ms
Loss rate: 5.89%
-- Flow 1:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 65.313 ms
Loss rate: 5.26%
-- Flow 2:
Average throughput: 32.44 Mbit/s
95th percentile per-packet one-way delay: 67.488 ms
Loss rate: 7.28%
-- Flow 3:
Average throughput: 30.29 Mbit/s
95th percentile per-packet one-way delay: 67.282 ms
Loss rate: 6.80%
```

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

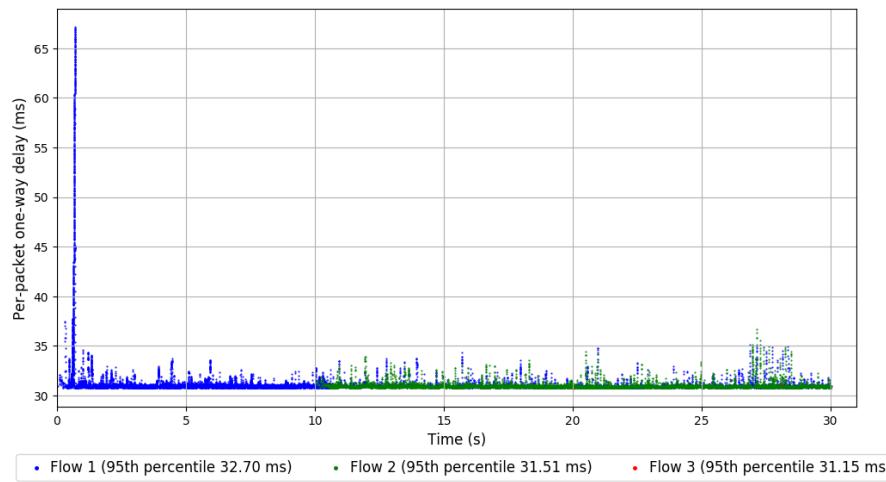
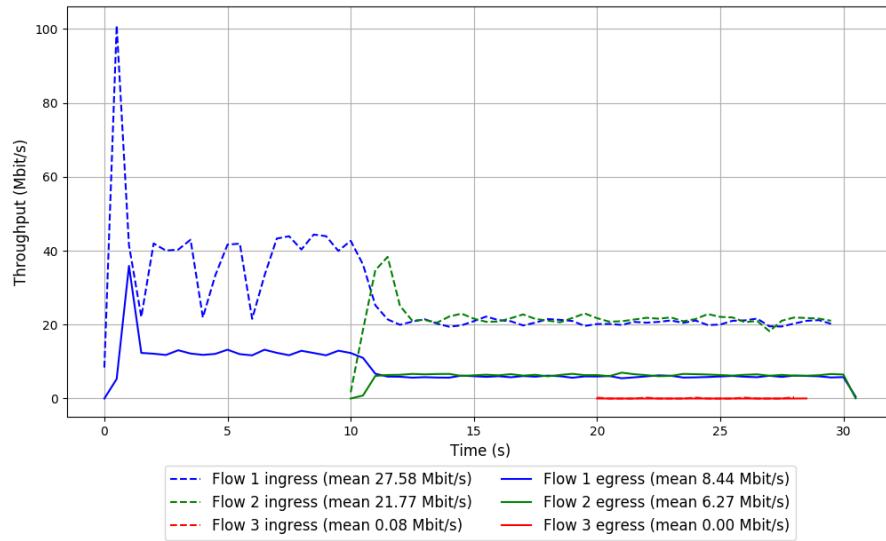


Run 1: Statistics of Copa

```
Start at: 2019-03-27 01:16:44
End at: 2019-03-27 01:17:14
Local clock offset: 0.078 ms
Remote clock offset: -2.264 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 32.198 ms
Loss rate: 70.04%
-- Flow 1:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 32.699 ms
Loss rate: 69.41%
-- Flow 2:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 31.509 ms
Loss rate: 71.21%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.150 ms
Loss rate: 98.03%
```

## Run 1: Report of Copa — Data Link

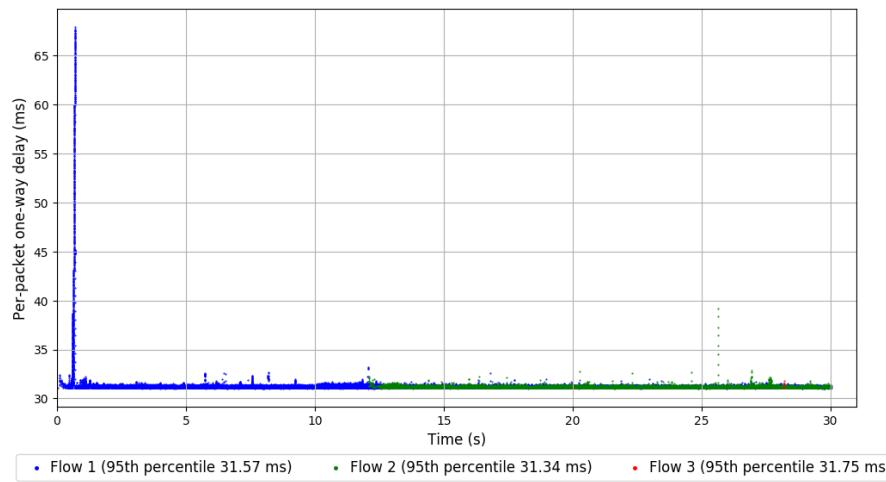
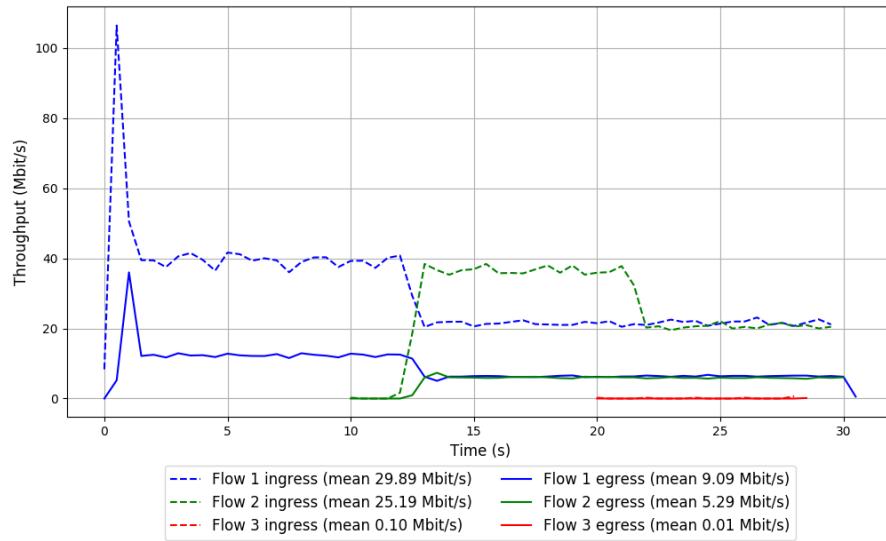


Run 2: Statistics of Copa

```
Start at: 2019-03-27 01:42:27
End at: 2019-03-27 01:42:57
Local clock offset: 0.355 ms
Remote clock offset: -0.879 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.477 ms
Loss rate: 72.98%
-- Flow 1:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 31.573 ms
Loss rate: 69.58%
-- Flow 2:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 31.338 ms
Loss rate: 79.01%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 31.750 ms
Loss rate: 90.79%
```

## Run 2: Report of Copa — Data Link

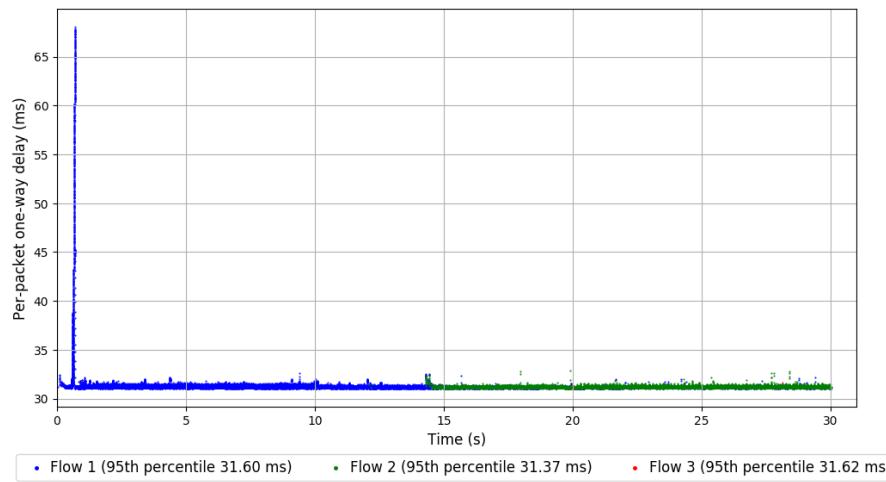
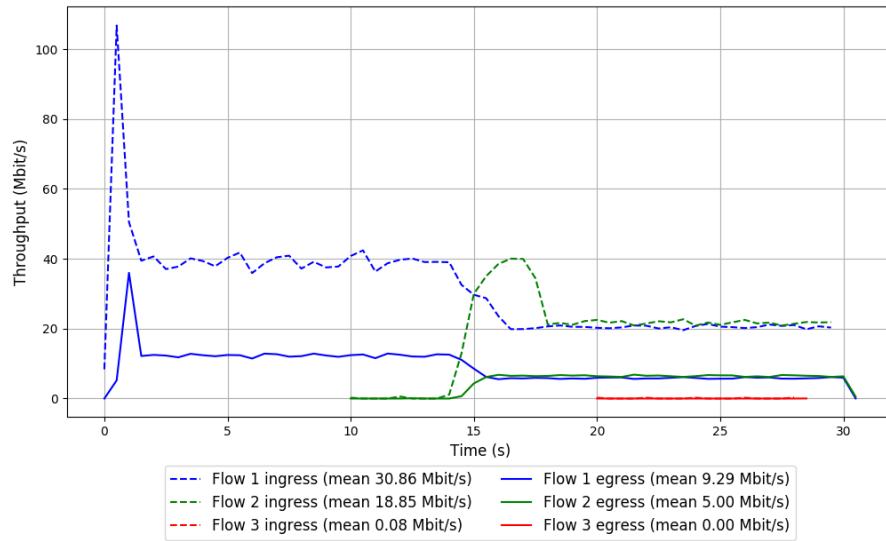


Run 3: Statistics of Copa

```
Start at: 2019-03-27 02:08:01
End at: 2019-03-27 02:08:31
Local clock offset: 0.148 ms
Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.514 ms
Loss rate: 70.95%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 31.603 ms
Loss rate: 69.91%
-- Flow 2:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 31.369 ms
Loss rate: 73.48%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.620 ms
Loss rate: 97.92%
```

### Run 3: Report of Copa — Data Link

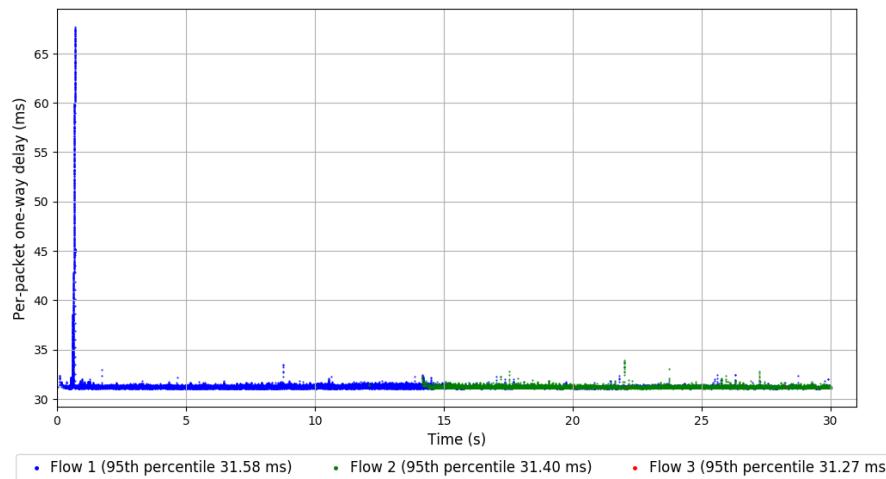
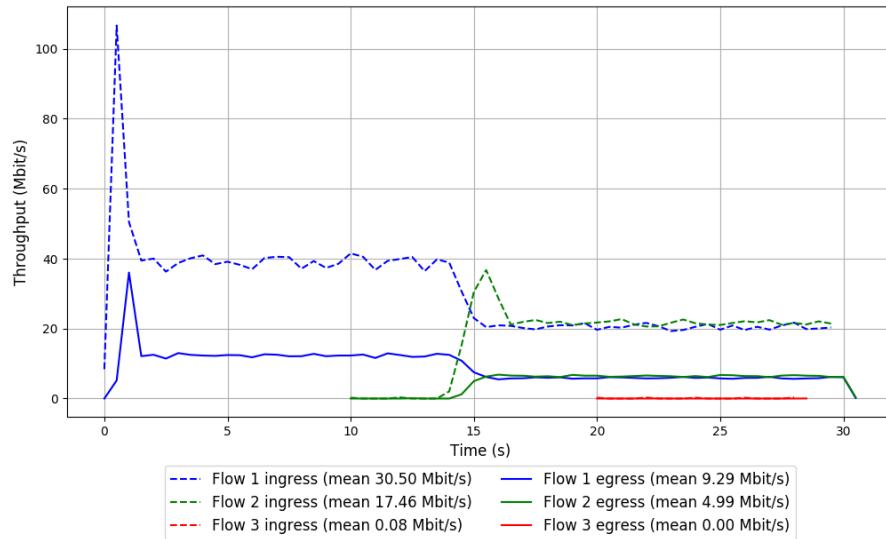


Run 4: Statistics of Copa

```
Start at: 2019-03-27 02:34:00
End at: 2019-03-27 02:34:30
Local clock offset: 0.297 ms
Remote clock offset: 1.063 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.522 ms
Loss rate: 70.07%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 31.584 ms
Loss rate: 69.55%
-- Flow 2:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 31.403 ms
Loss rate: 71.39%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.267 ms
Loss rate: 96.14%
```

## Run 4: Report of Copa — Data Link

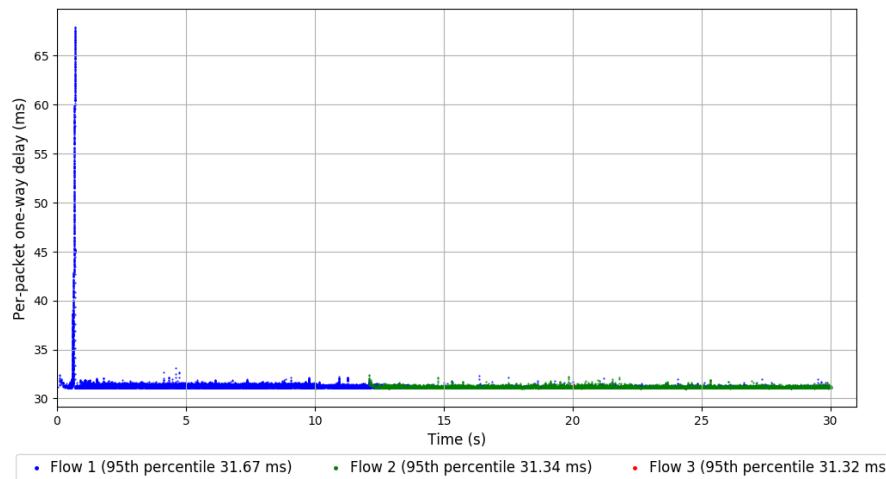
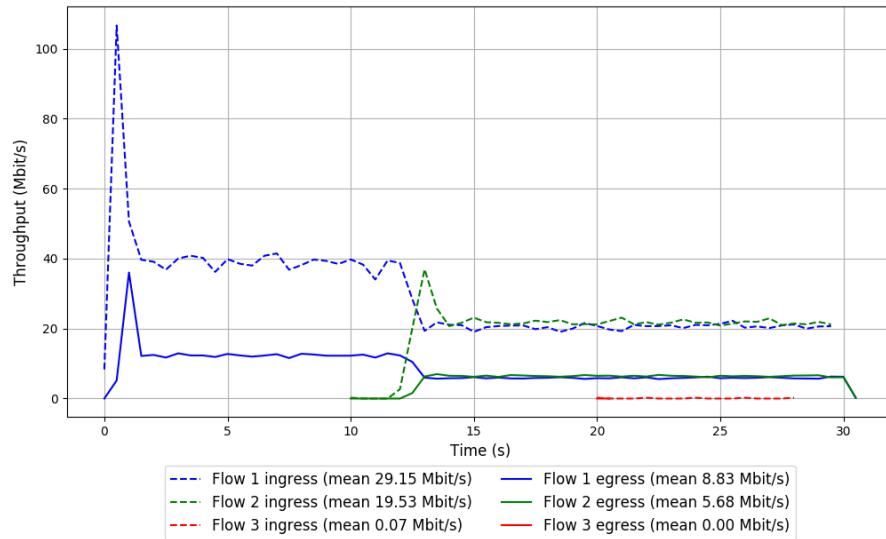


Run 5: Statistics of Copa

```
Start at: 2019-03-27 02:59:19
End at: 2019-03-27 02:59:49
Local clock offset: 0.502 ms
Remote clock offset: 1.853 ms

# Below is generated by plot.py at 2019-03-27 03:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 31.535 ms
Loss rate: 70.10%
-- Flow 1:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 31.668 ms
Loss rate: 69.71%
-- Flow 2:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 31.344 ms
Loss rate: 70.91%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.317 ms
Loss rate: 99.83%
```

## Run 5: Report of Copa — Data Link

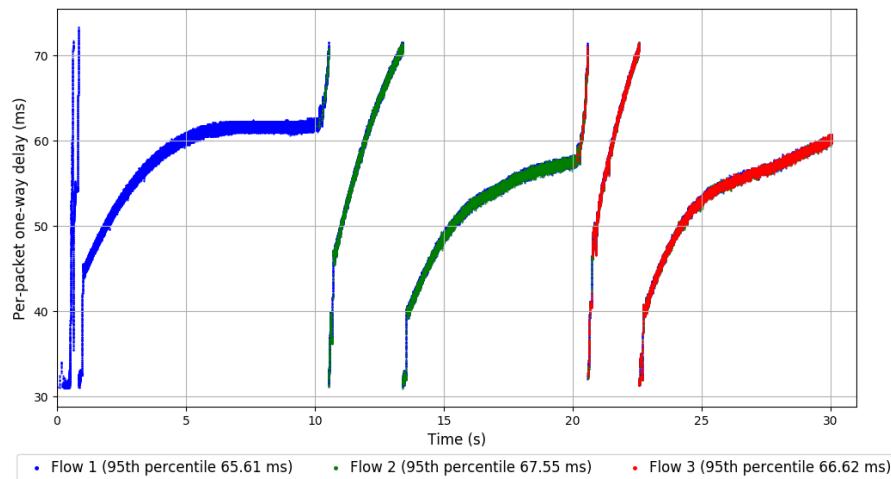
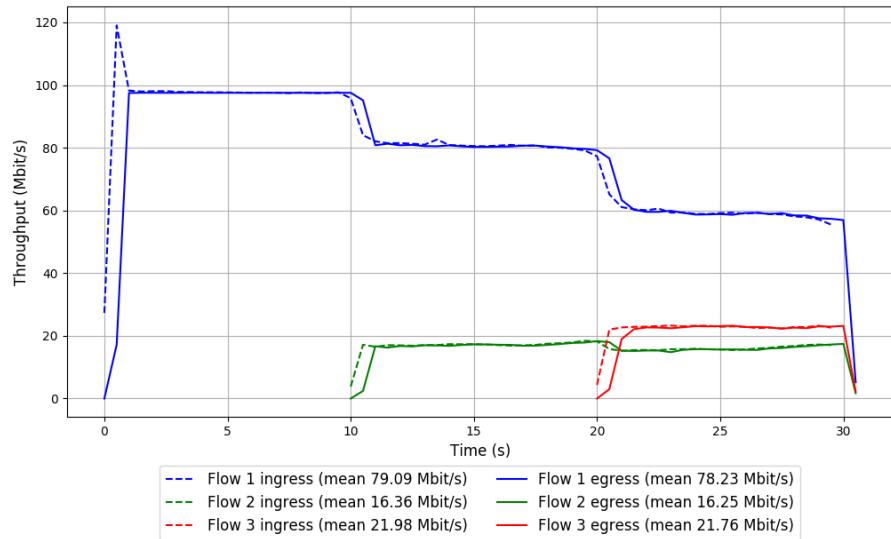


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-27 01:14:21
End at: 2019-03-27 01:14:51
Local clock offset: 0.064 ms
Remote clock offset: -2.333 ms

# Below is generated by plot.py at 2019-03-27 03:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 66.062 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 78.23 Mbit/s
95th percentile per-packet one-way delay: 65.610 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 16.25 Mbit/s
95th percentile per-packet one-way delay: 67.548 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 21.76 Mbit/s
95th percentile per-packet one-way delay: 66.618 ms
Loss rate: 0.99%
```

Run 1: Report of TCP Cubic — Data Link

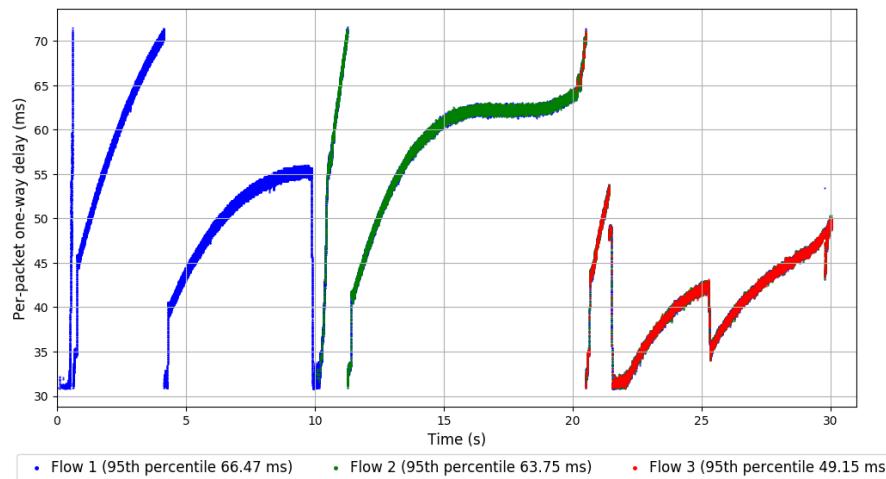
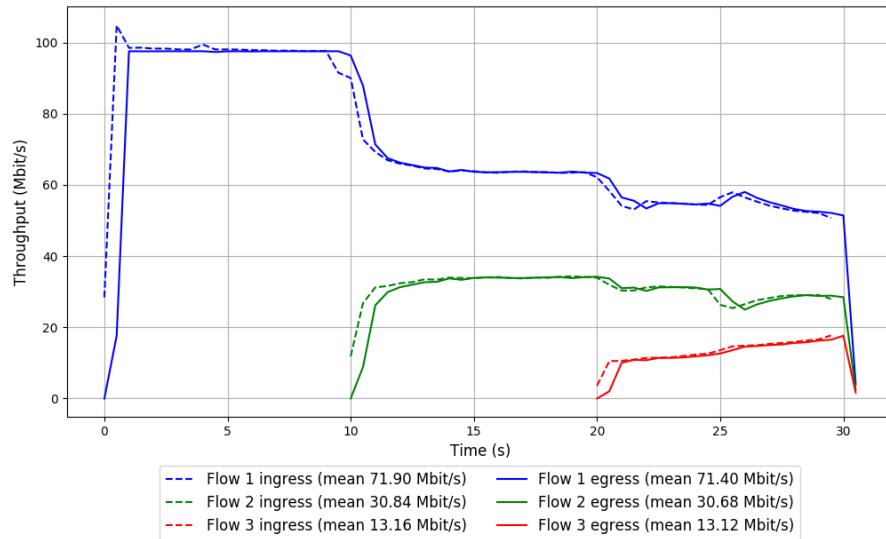


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-27 01:40:04
End at: 2019-03-27 01:40:34
Local clock offset: 0.344 ms
Remote clock offset: -1.192 ms

# Below is generated by plot.py at 2019-03-27 03:15:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 65.676 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 71.40 Mbit/s
95th percentile per-packet one-way delay: 66.472 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 30.68 Mbit/s
95th percentile per-packet one-way delay: 63.747 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 49.154 ms
Loss rate: 0.46%
```

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

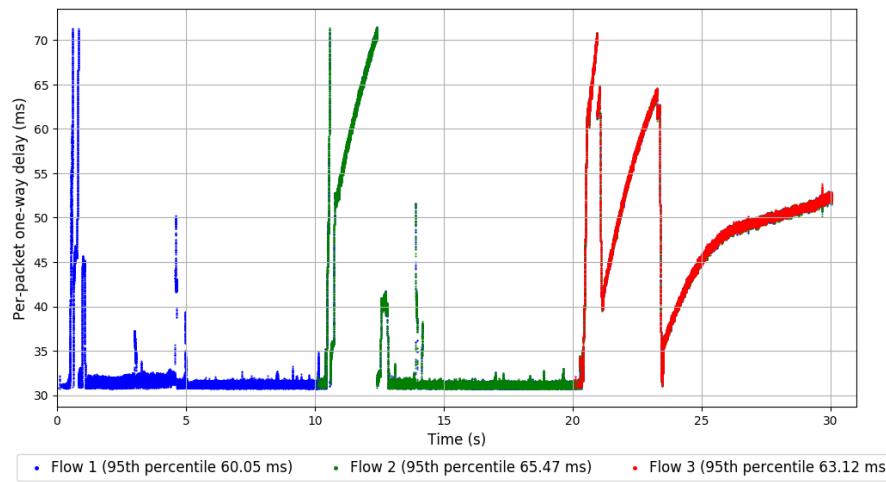
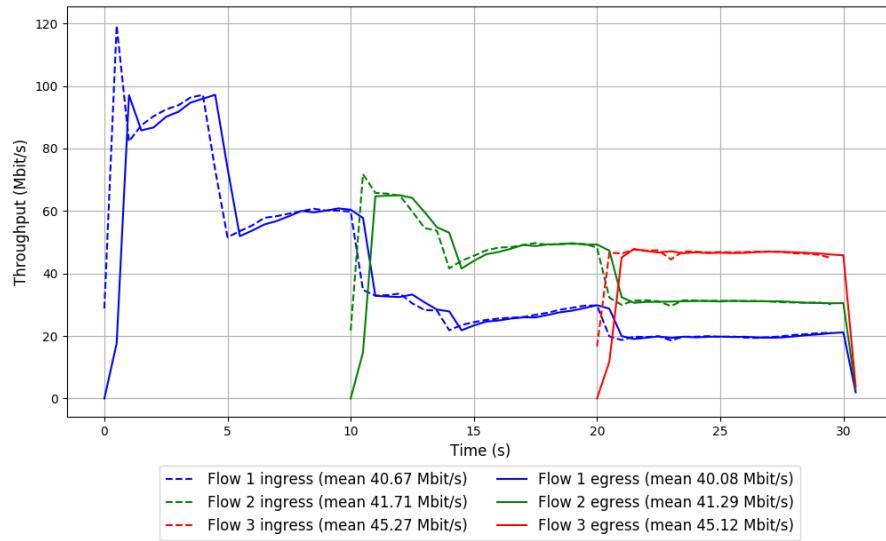


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-27 02:05:36
End at: 2019-03-27 02:06:06
Local clock offset: 0.172 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-03-27 03:15:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 63.153 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 60.048 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 41.29 Mbit/s
95th percentile per-packet one-way delay: 65.466 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 45.12 Mbit/s
95th percentile per-packet one-way delay: 63.115 ms
Loss rate: 0.11%
```

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

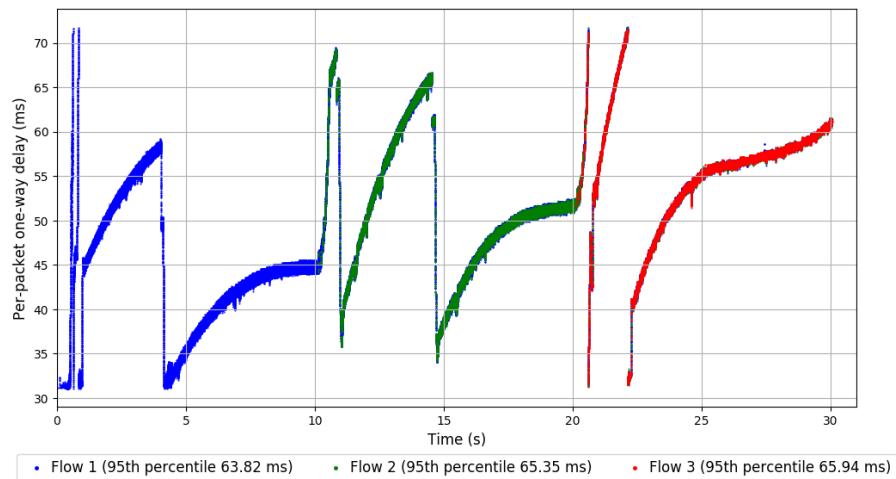
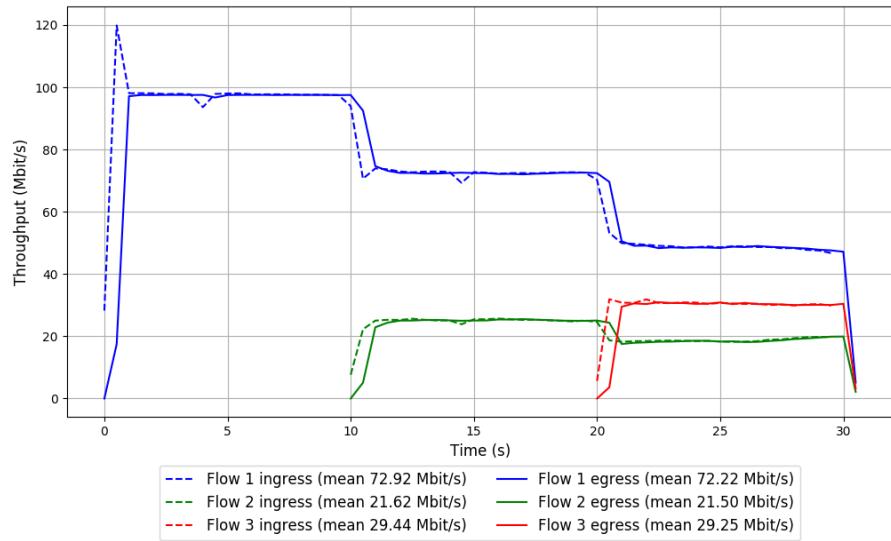


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-27 02:31:35
End at: 2019-03-27 02:32:05
Local clock offset: 0.265 ms
Remote clock offset: 1.009 ms

# Below is generated by plot.py at 2019-03-27 03:15:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 64.326 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 72.22 Mbit/s
95th percentile per-packet one-way delay: 63.817 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 21.50 Mbit/s
95th percentile per-packet one-way delay: 65.347 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 29.25 Mbit/s
95th percentile per-packet one-way delay: 65.944 ms
Loss rate: 0.54%
```

Run 4: Report of TCP Cubic — Data Link

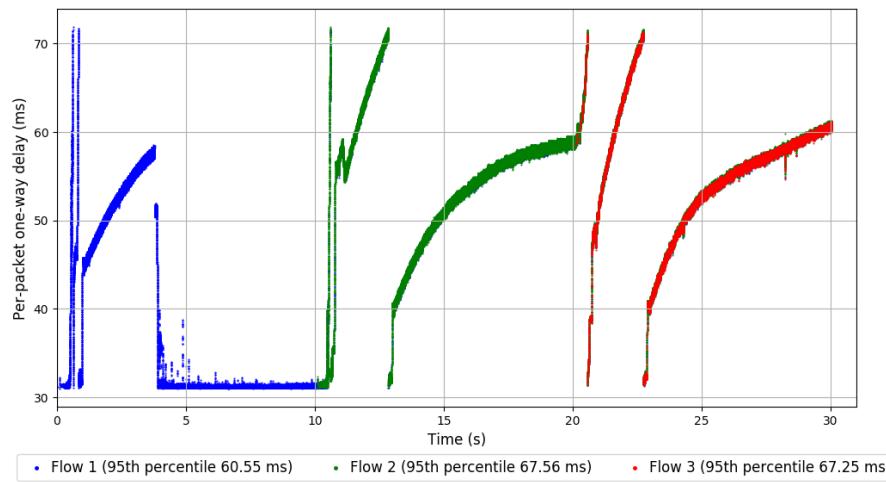
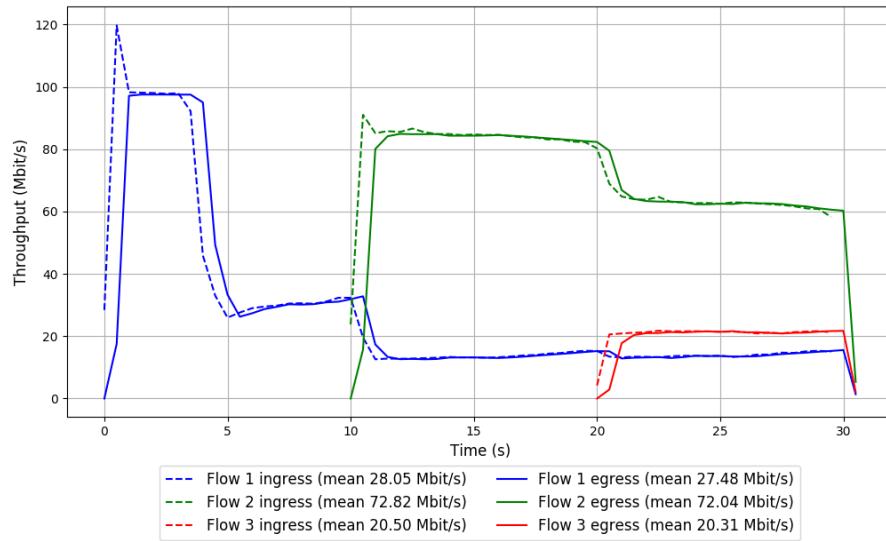


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-27 02:56:55
End at: 2019-03-27 02:57:25
Local clock offset: 0.487 ms
Remote clock offset: 1.778 ms

# Below is generated by plot.py at 2019-03-27 03:15:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 66.343 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 27.48 Mbit/s
95th percentile per-packet one-way delay: 60.546 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 72.04 Mbit/s
95th percentile per-packet one-way delay: 67.558 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 67.255 ms
Loss rate: 0.92%
```

Run 5: Report of TCP Cubic — Data Link

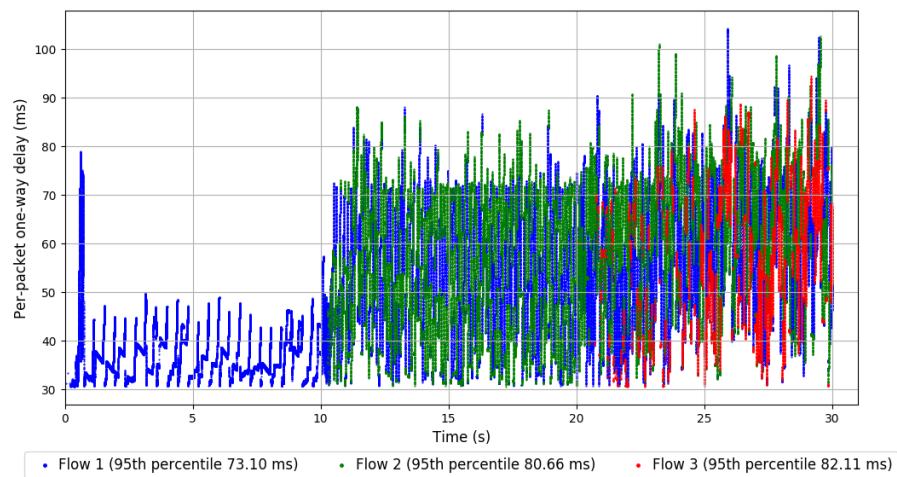
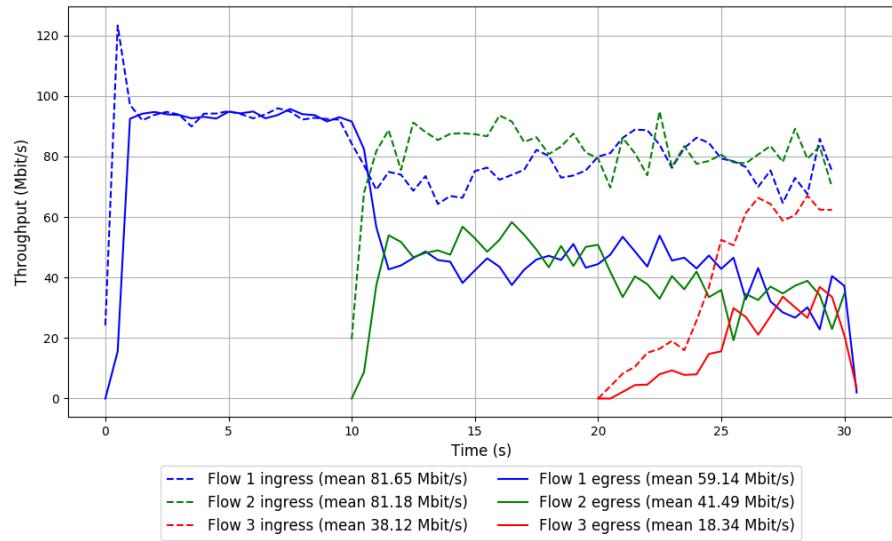


```
Run 1: Statistics of FillP
```

```
Start at: 2019-03-27 01:26:29
End at: 2019-03-27 01:26:59
Local clock offset: 0.233 ms
Remote clock offset: -1.76 ms

# Below is generated by plot.py at 2019-03-27 03:16:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 77.248 ms
Loss rate: 37.38%
-- Flow 1:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 73.098 ms
Loss rate: 27.52%
-- Flow 2:
Average throughput: 41.49 Mbit/s
95th percentile per-packet one-way delay: 80.659 ms
Loss rate: 48.90%
-- Flow 3:
Average throughput: 18.34 Mbit/s
95th percentile per-packet one-way delay: 82.112 ms
Loss rate: 51.85%
```

## Run 1: Report of FillP — Data Link

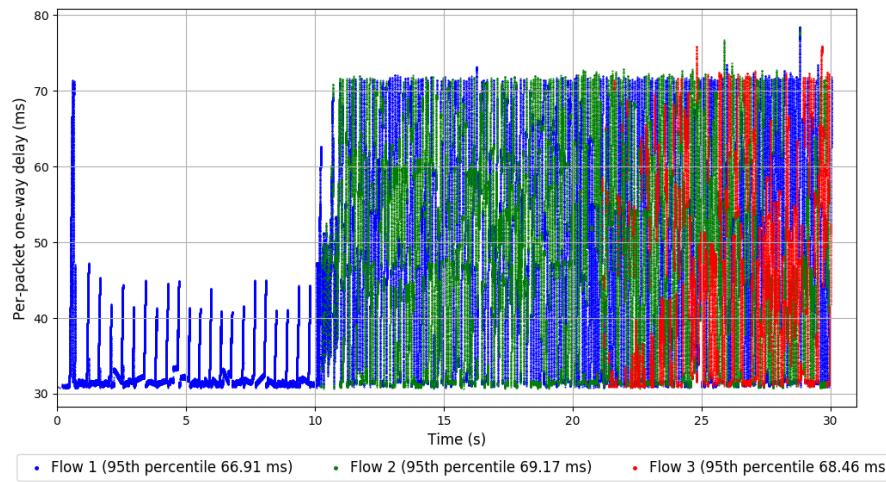
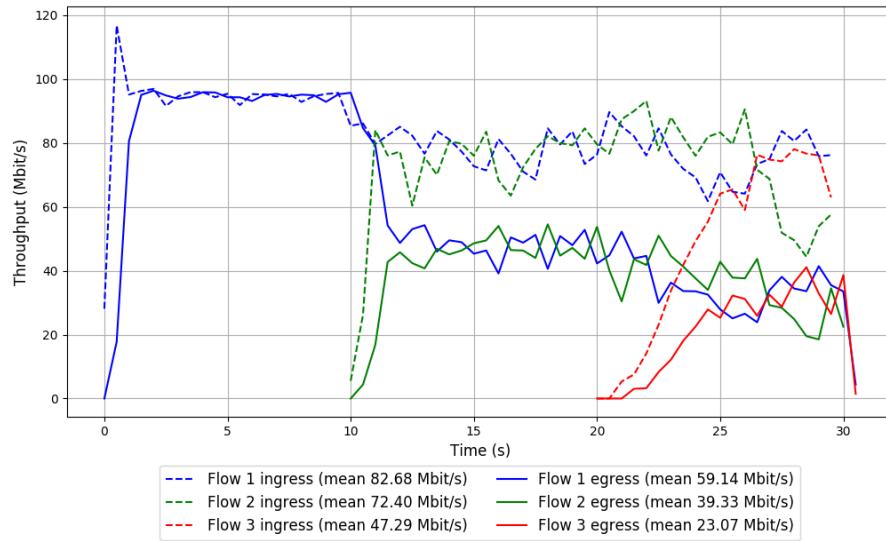


Run 2: Statistics of FillP

```
Start at: 2019-03-27 01:52:03
End at: 2019-03-27 01:52:33
Local clock offset: 0.288 ms
Remote clock offset: -0.62 ms

# Below is generated by plot.py at 2019-03-27 03:16:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 68.058 ms
Loss rate: 36.62%
-- Flow 1:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 66.905 ms
Loss rate: 28.38%
-- Flow 2:
Average throughput: 39.33 Mbit/s
95th percentile per-packet one-way delay: 69.175 ms
Loss rate: 45.68%
-- Flow 3:
Average throughput: 23.07 Mbit/s
95th percentile per-packet one-way delay: 68.464 ms
Loss rate: 52.24%
```

## Run 2: Report of FillP — Data Link

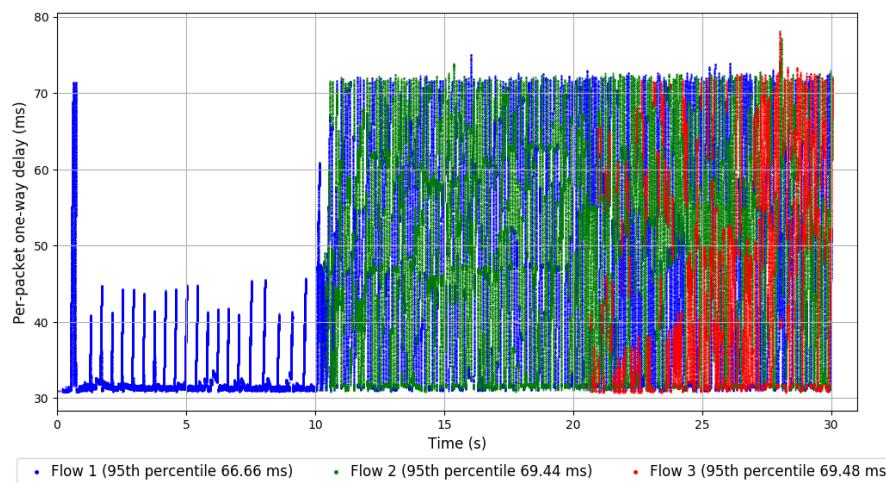
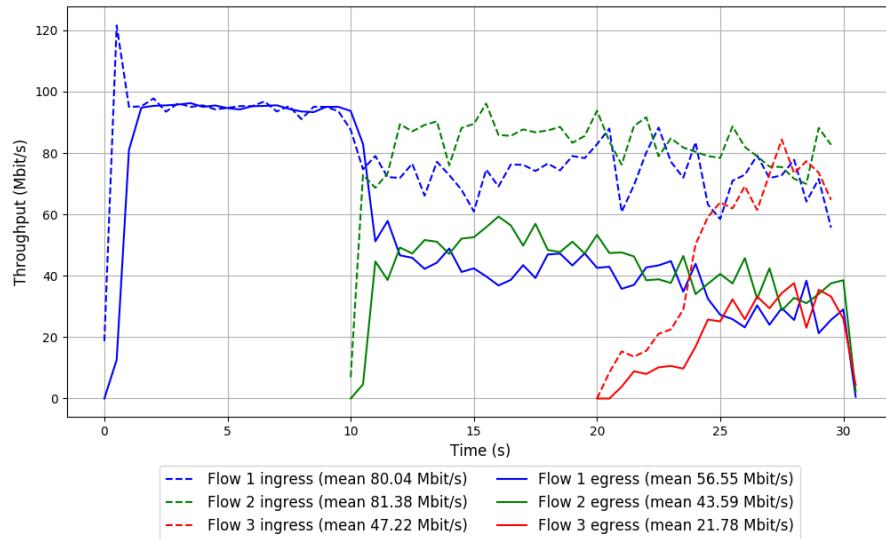


Run 3: Statistics of FillP

```
Start at: 2019-03-27 02:17:51
End at: 2019-03-27 02:18:21
Local clock offset: 0.028 ms
Remote clock offset: 0.522 ms

# Below is generated by plot.py at 2019-03-27 03:16:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 68.458 ms
Loss rate: 38.02%
-- Flow 1:
Average throughput: 56.55 Mbit/s
95th percentile per-packet one-way delay: 66.659 ms
Loss rate: 29.30%
-- Flow 2:
Average throughput: 43.59 Mbit/s
95th percentile per-packet one-way delay: 69.445 ms
Loss rate: 46.34%
-- Flow 3:
Average throughput: 21.78 Mbit/s
95th percentile per-packet one-way delay: 69.481 ms
Loss rate: 53.75%
```

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

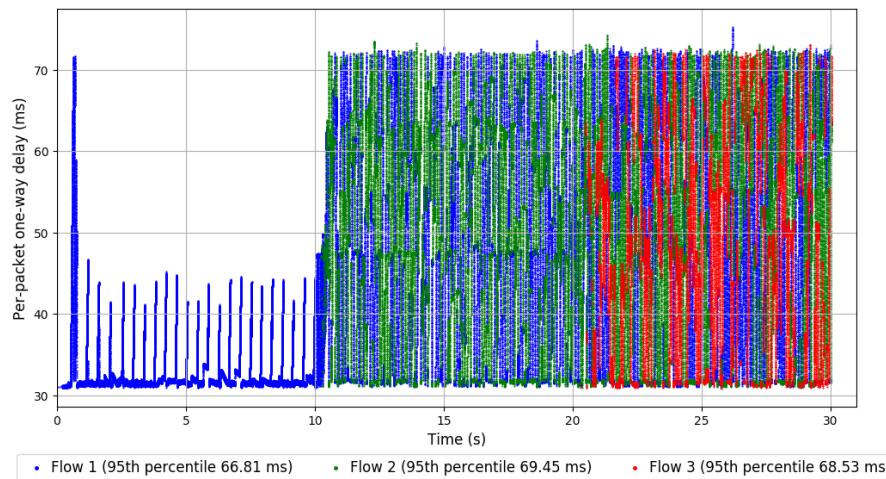
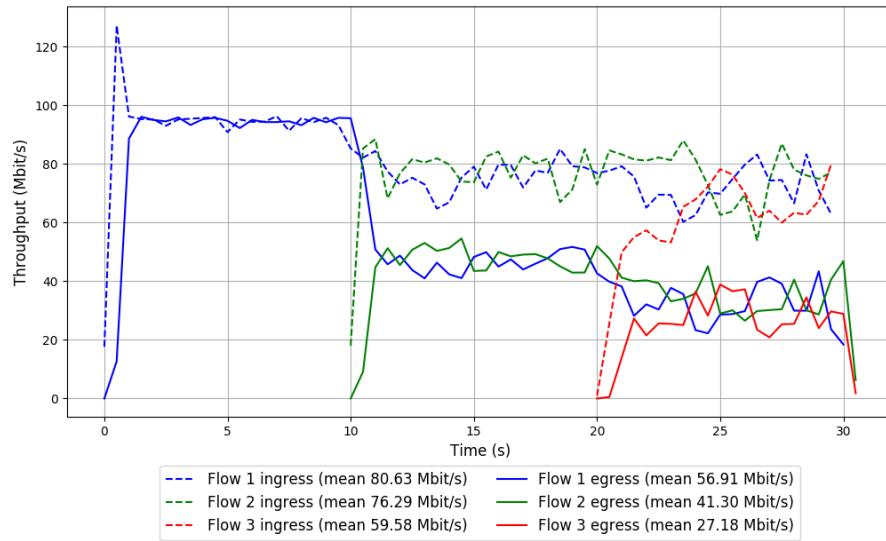


Run 4: Statistics of FillP

```
Start at: 2019-03-27 02:43:34
End at: 2019-03-27 02:44:04
Local clock offset: 0.465 ms
Remote clock offset: 1.453 ms

# Below is generated by plot.py at 2019-03-27 03:16:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 68.184 ms
Loss rate: 38.29%
-- Flow 1:
Average throughput: 56.91 Mbit/s
95th percentile per-packet one-way delay: 66.807 ms
Loss rate: 29.42%
-- Flow 2:
Average throughput: 41.30 Mbit/s
95th percentile per-packet one-way delay: 69.447 ms
Loss rate: 45.78%
-- Flow 3:
Average throughput: 27.18 Mbit/s
95th percentile per-packet one-way delay: 68.531 ms
Loss rate: 55.21%
```

## Run 4: Report of FillP — Data Link

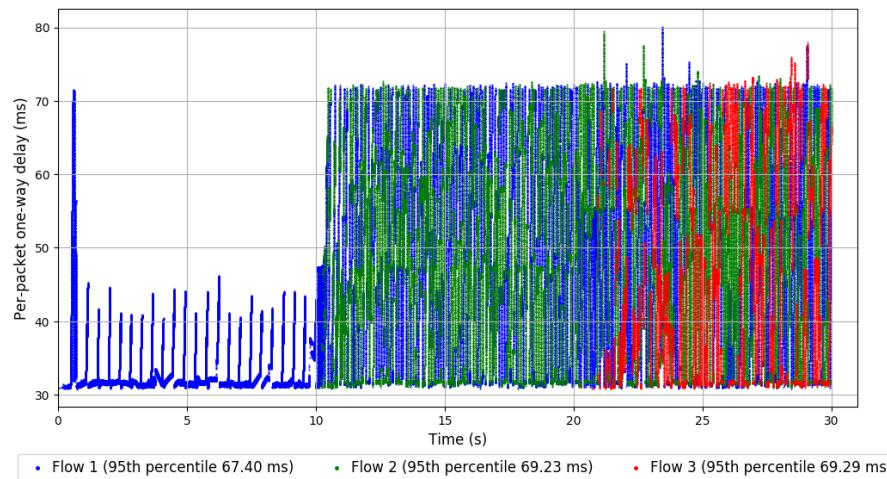
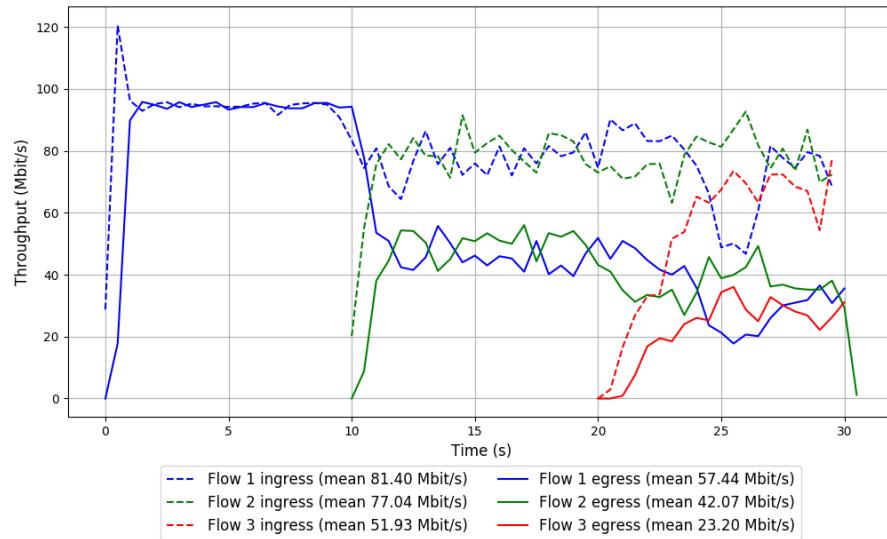


Run 5: Statistics of FillP

```
Start at: 2019-03-27 03:08:57
End at: 2019-03-27 03:09:27
Local clock offset: 0.599 ms
Remote clock offset: 1.892 ms

# Below is generated by plot.py at 2019-03-27 03:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 68.513 ms
Loss rate: 37.87%
-- Flow 1:
Average throughput: 57.44 Mbit/s
95th percentile per-packet one-way delay: 67.398 ms
Loss rate: 29.45%
-- Flow 2:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 69.227 ms
Loss rate: 45.32%
-- Flow 3:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 69.294 ms
Loss rate: 55.45%
```

## Run 5: Report of FillP — Data Link

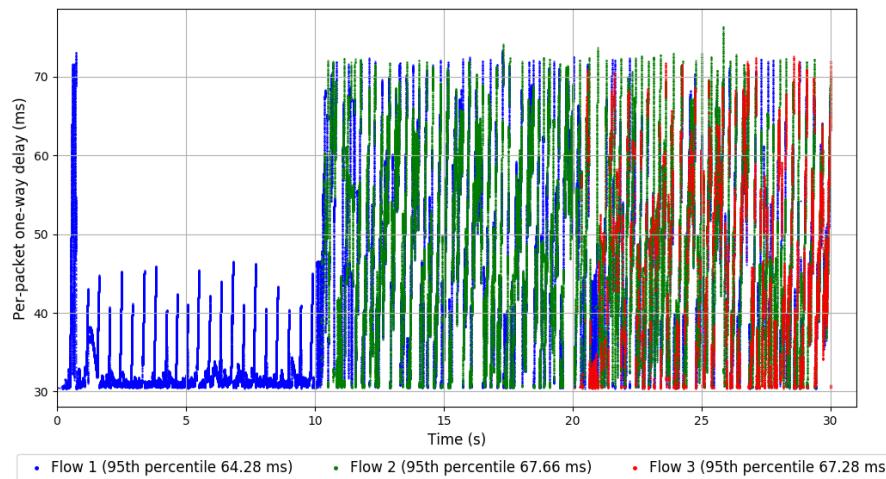
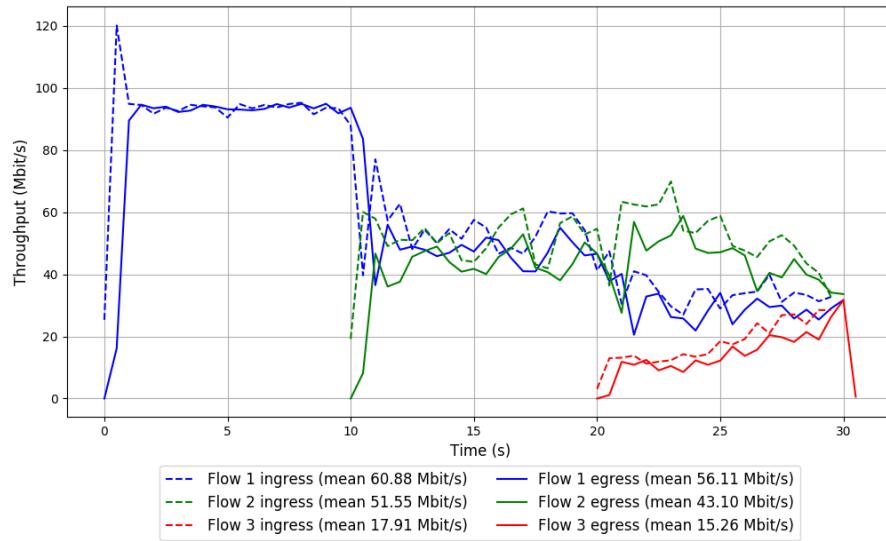


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-03-27 01:11:55
End at: 2019-03-27 01:12:25
Local clock offset: 0.087 ms
Remote clock offset: -2.666 ms

# Below is generated by plot.py at 2019-03-27 03:16:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.80 Mbit/s
95th percentile per-packet one-way delay: 66.124 ms
Loss rate: 11.16%
-- Flow 1:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 64.284 ms
Loss rate: 7.85%
-- Flow 2:
Average throughput: 43.10 Mbit/s
95th percentile per-packet one-way delay: 67.660 ms
Loss rate: 16.41%
-- Flow 3:
Average throughput: 15.26 Mbit/s
95th percentile per-packet one-way delay: 67.284 ms
Loss rate: 14.77%
```

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

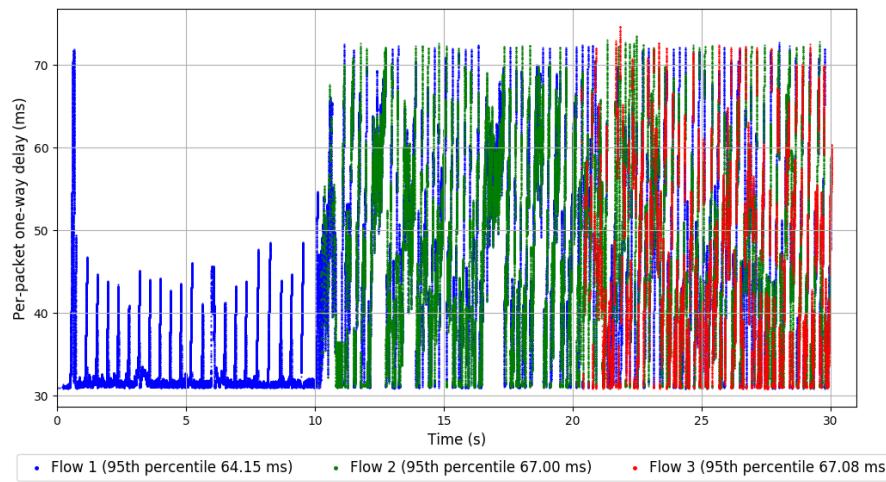
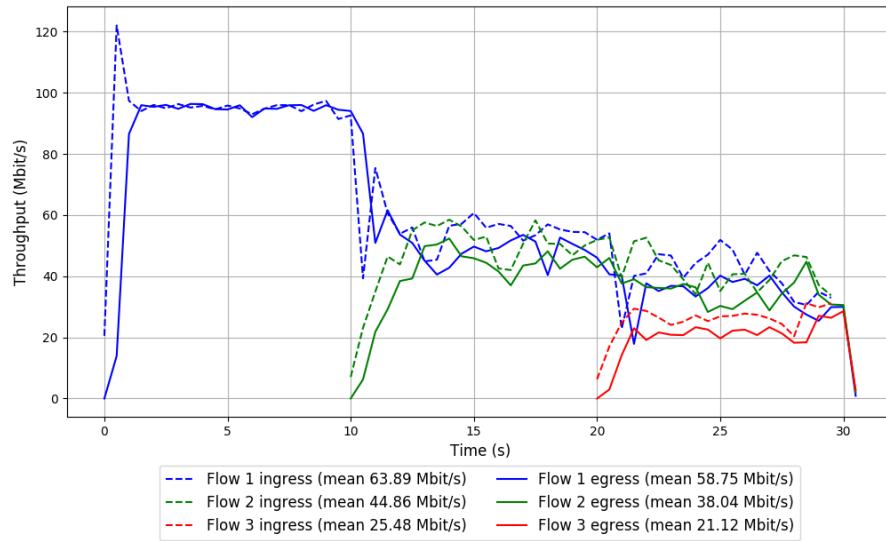


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-27 01:37:38
End at: 2019-03-27 01:38:08
Local clock offset: 0.326 ms
Remote clock offset: -1.122 ms

# Below is generated by plot.py at 2019-03-27 03:17:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 65.451 ms
Loss rate: 10.83%
-- Flow 1:
Average throughput: 58.75 Mbit/s
95th percentile per-packet one-way delay: 64.149 ms
Loss rate: 7.98%
-- Flow 2:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 67.002 ms
Loss rate: 15.14%
-- Flow 3:
Average throughput: 21.12 Mbit/s
95th percentile per-packet one-way delay: 67.085 ms
Loss rate: 17.17%
```

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

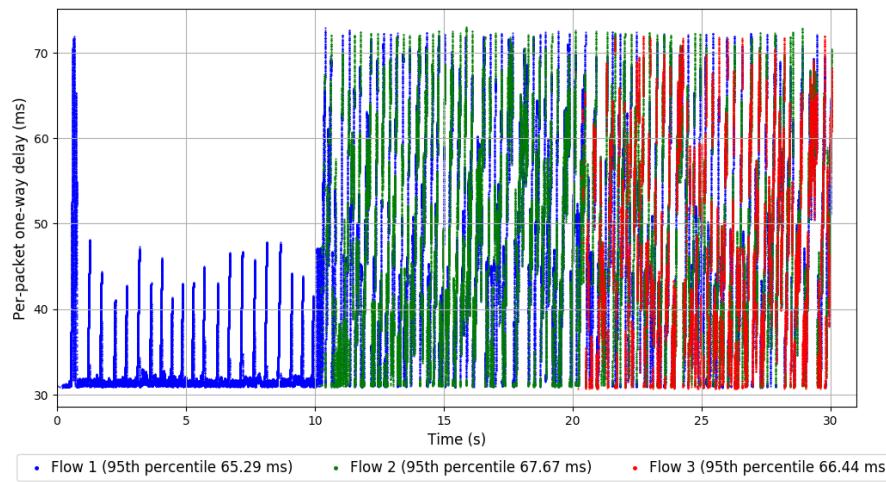
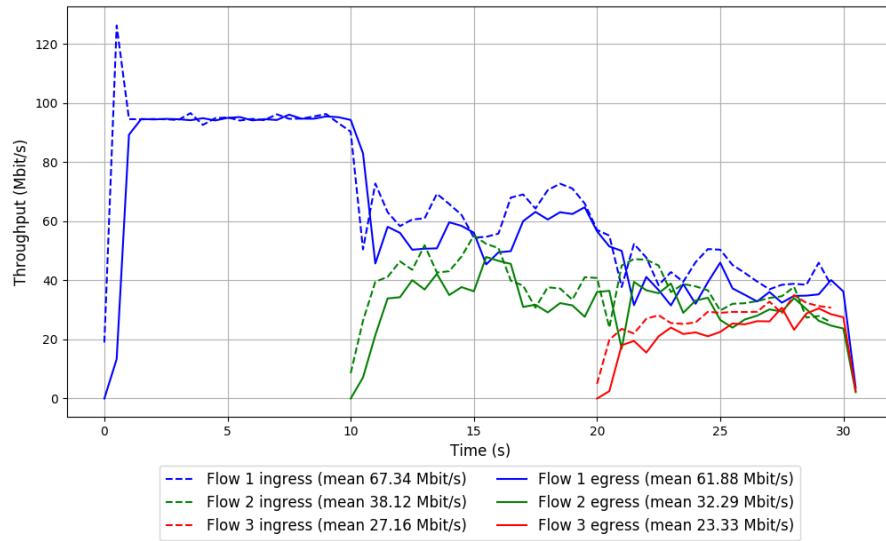


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-27 02:03:06
End at: 2019-03-27 02:03:36
Local clock offset: 0.183 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-03-27 03:17:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.06 Mbit/s
95th percentile per-packet one-way delay: 66.291 ms
Loss rate: 10.34%
-- Flow 1:
Average throughput: 61.88 Mbit/s
95th percentile per-packet one-way delay: 65.288 ms
Loss rate: 8.03%
-- Flow 2:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 67.675 ms
Loss rate: 15.14%
-- Flow 3:
Average throughput: 23.33 Mbit/s
95th percentile per-packet one-way delay: 66.439 ms
Loss rate: 14.15%
```

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

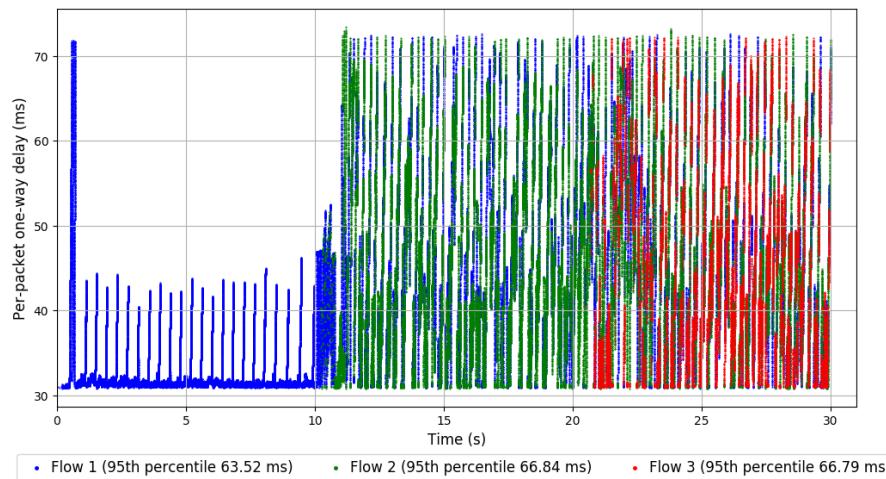
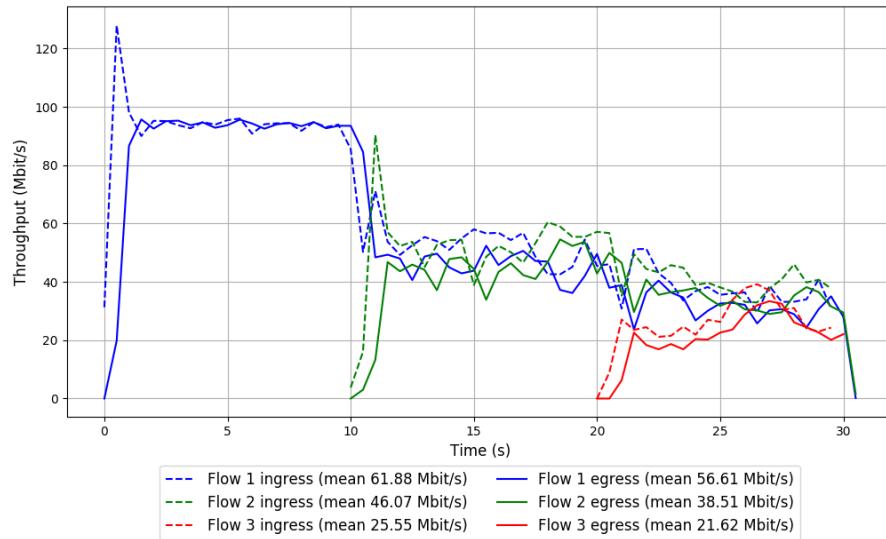


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-27 02:29:05
End at: 2019-03-27 02:29:35
Local clock offset: 0.199 ms
Remote clock offset: 0.896 ms

# Below is generated by plot.py at 2019-03-27 03:17:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 65.345 ms
Loss rate: 11.50%
-- Flow 1:
Average throughput: 56.61 Mbit/s
95th percentile per-packet one-way delay: 63.515 ms
Loss rate: 8.52%
-- Flow 2:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 66.838 ms
Loss rate: 16.40%
-- Flow 3:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 66.794 ms
Loss rate: 15.52%
```

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

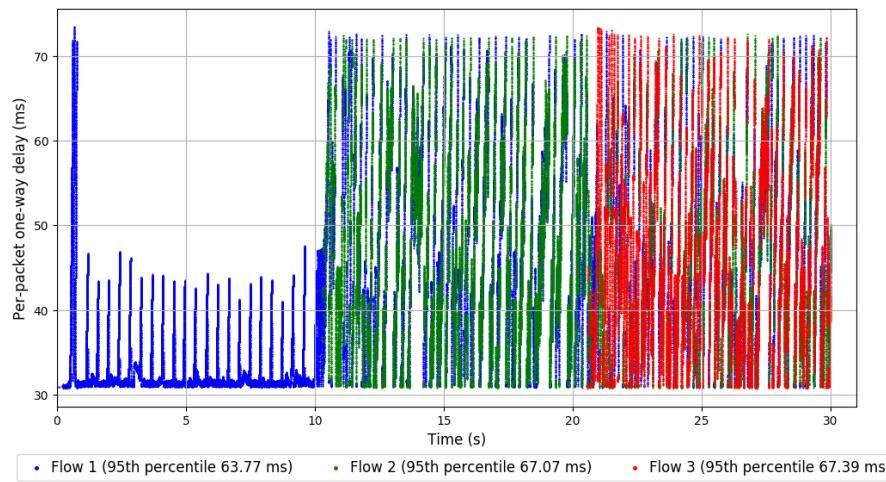
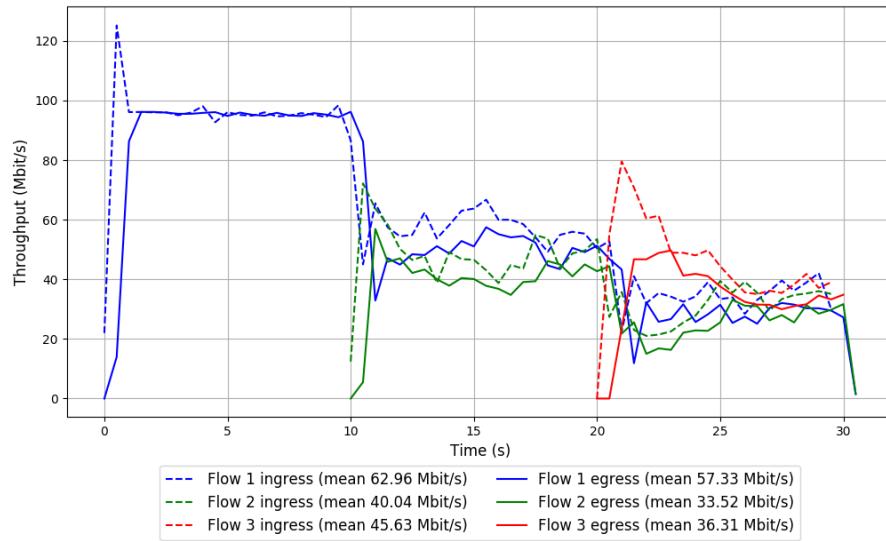


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-27 02:54:26
End at: 2019-03-27 02:54:56
Local clock offset: 0.501 ms
Remote clock offset: 1.766 ms

# Below is generated by plot.py at 2019-03-27 03:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 65.552 ms
Loss rate: 12.73%
-- Flow 1:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 63.768 ms
Loss rate: 8.91%
-- Flow 2:
Average throughput: 33.52 Mbit/s
95th percentile per-packet one-way delay: 67.071 ms
Loss rate: 16.27%
-- Flow 3:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 67.394 ms
Loss rate: 22.38%
```

Run 5: Report of FillP-Sheep — Data Link

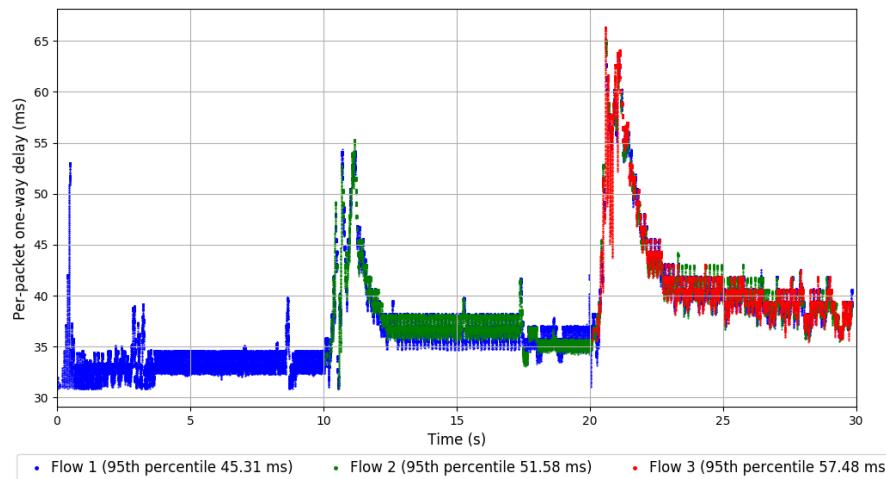
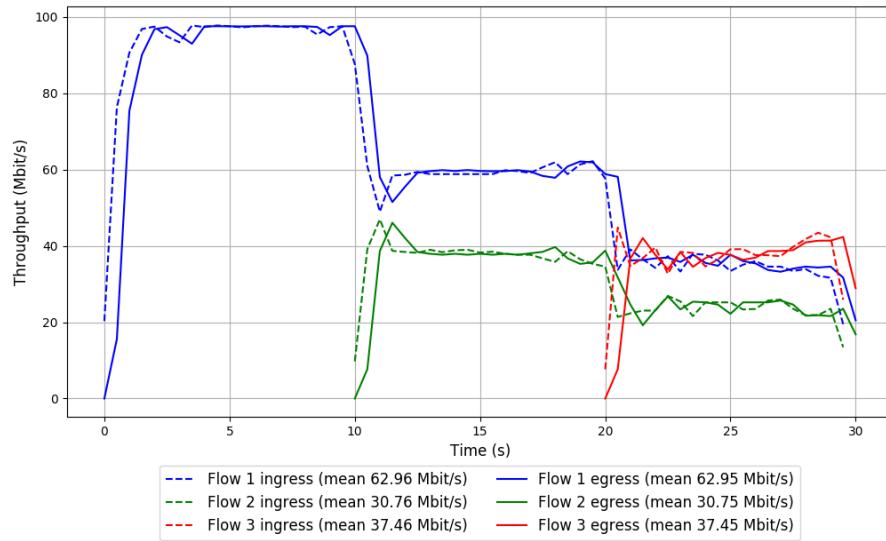


Run 1: Statistics of Indigo

```
Start at: 2019-03-27 01:08:15
End at: 2019-03-27 01:08:45
Local clock offset: 0.089 ms
Remote clock offset: -2.62 ms

# Below is generated by plot.py at 2019-03-27 03:17:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 50.154 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.95 Mbit/s
95th percentile per-packet one-way delay: 45.311 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 51.581 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.45 Mbit/s
95th percentile per-packet one-way delay: 57.480 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo — Data Link

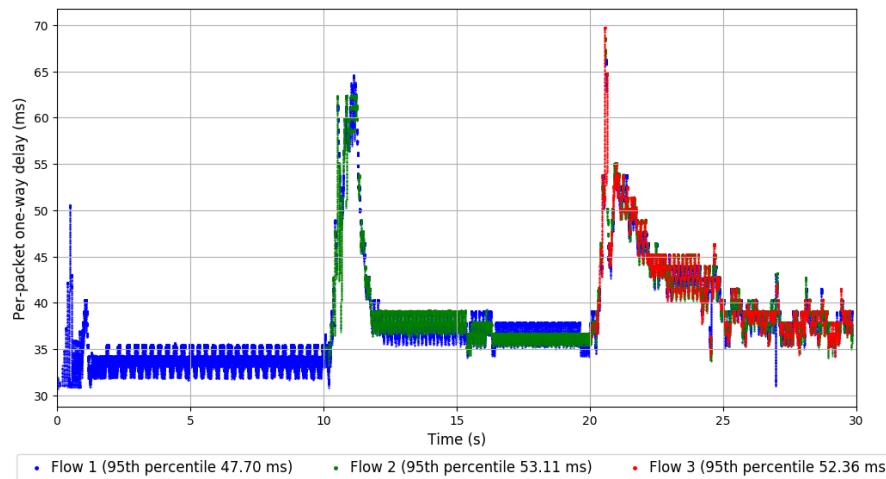
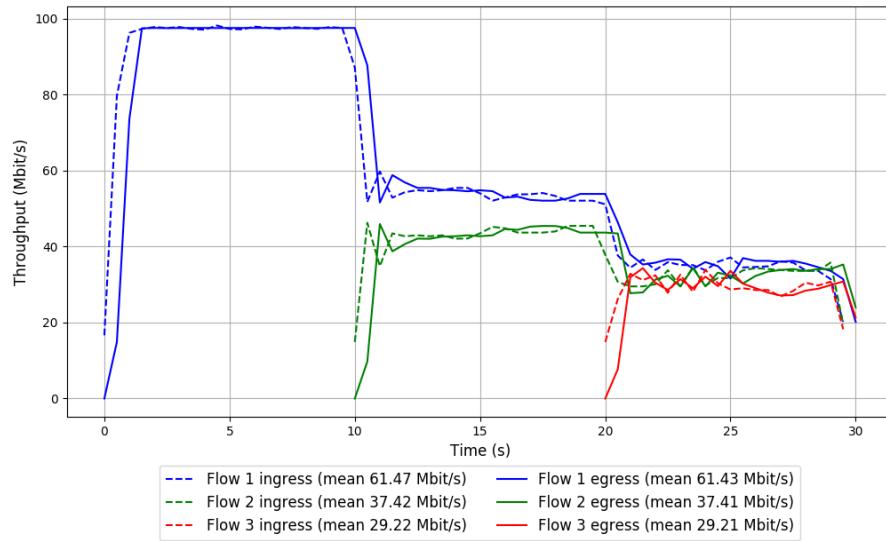


Run 2: Statistics of Indigo

```
Start at: 2019-03-27 01:33:58
End at: 2019-03-27 01:34:28
Local clock offset: 0.29 ms
Remote clock offset: -1.514 ms

# Below is generated by plot.py at 2019-03-27 03:17:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 51.110 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 61.43 Mbit/s
95th percentile per-packet one-way delay: 47.696 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 53.107 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.21 Mbit/s
95th percentile per-packet one-way delay: 52.362 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo — Data Link

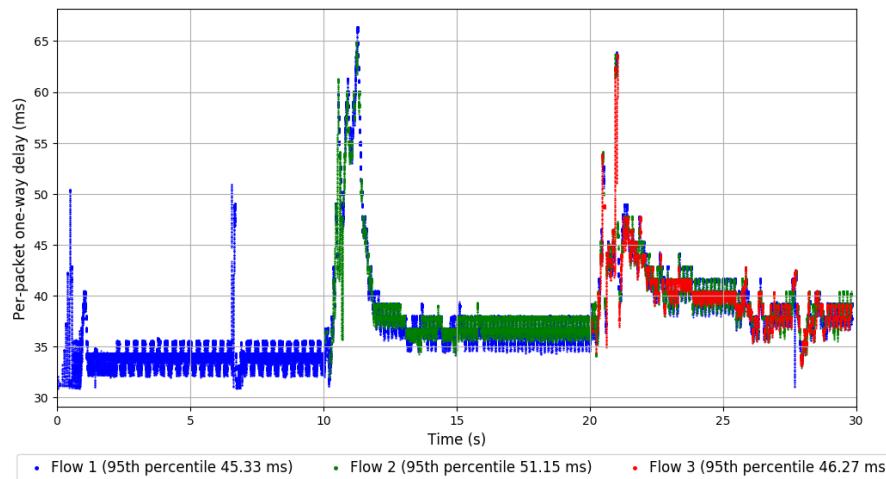
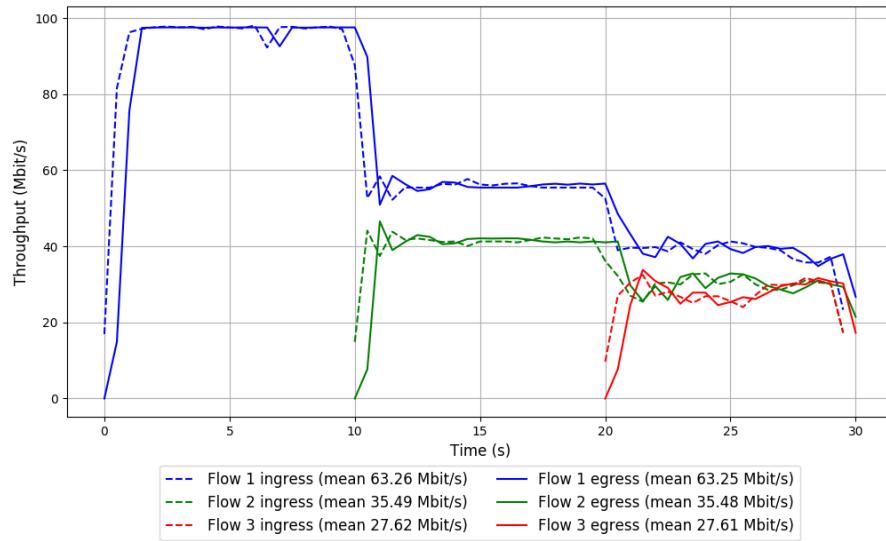


Run 3: Statistics of Indigo

```
Start at: 2019-03-27 01:59:19
End at: 2019-03-27 01:59:49
Local clock offset: 0.221 ms
Remote clock offset: -0.377 ms

# Below is generated by plot.py at 2019-03-27 03:17:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 46.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 45.330 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.48 Mbit/s
95th percentile per-packet one-way delay: 51.146 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.61 Mbit/s
95th percentile per-packet one-way delay: 46.265 ms
Loss rate: 0.00%
```

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

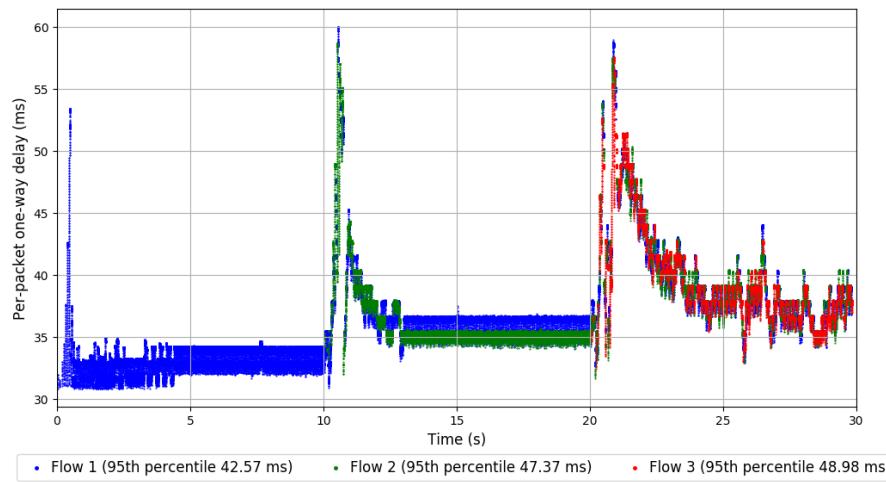
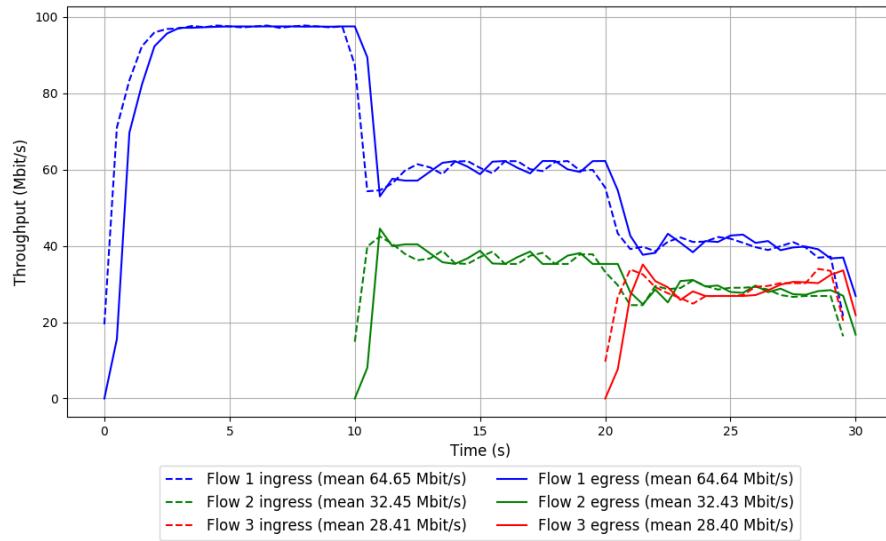


Run 4: Statistics of Indigo

```
Start at: 2019-03-27 02:25:14
End at: 2019-03-27 02:25:44
Local clock offset: 0.141 ms
Remote clock offset: 0.575 ms

# Below is generated by plot.py at 2019-03-27 03:17:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.39 Mbit/s
95th percentile per-packet one-way delay: 45.205 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 42.570 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.43 Mbit/s
95th percentile per-packet one-way delay: 47.371 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 28.40 Mbit/s
95th percentile per-packet one-way delay: 48.978 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

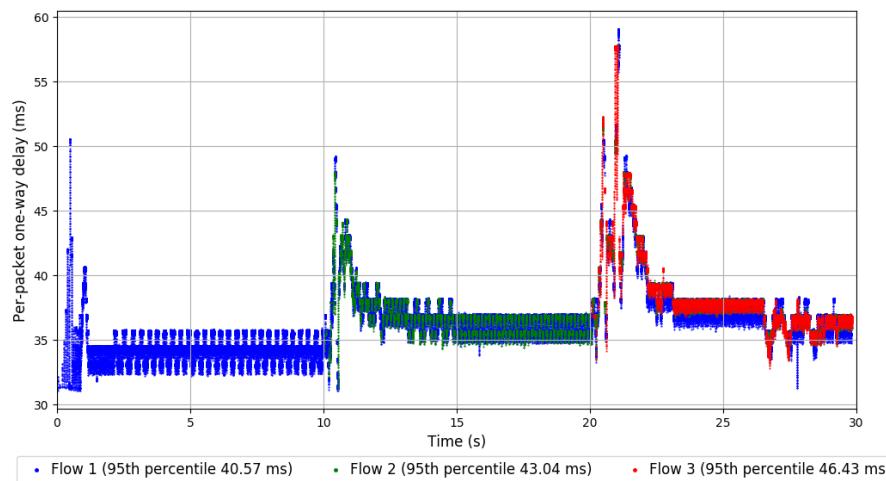
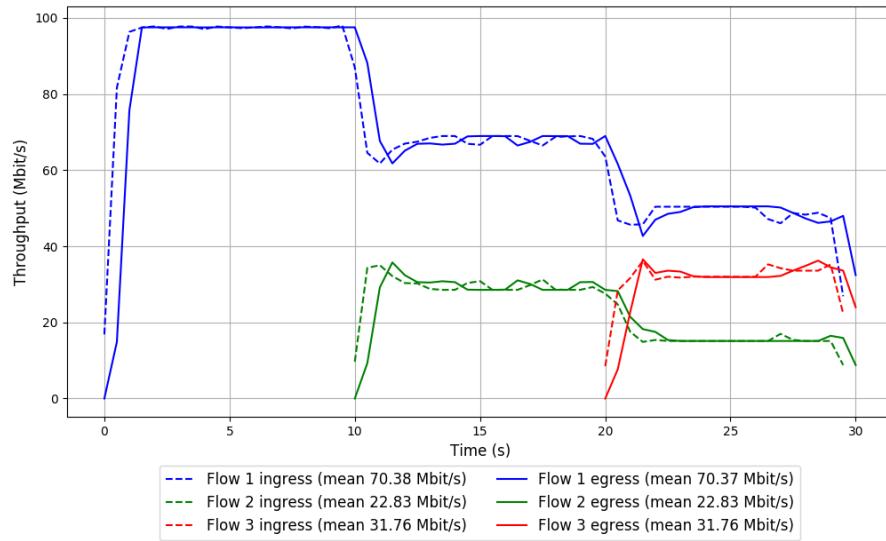


Run 5: Statistics of Indigo

```
Start at: 2019-03-27 02:50:46
End at: 2019-03-27 02:51:16
Local clock offset: 0.497 ms
Remote clock offset: 1.679 ms

# Below is generated by plot.py at 2019-03-27 03:18:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 41.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.37 Mbit/s
95th percentile per-packet one-way delay: 40.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 43.038 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 46.429 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo — Data Link

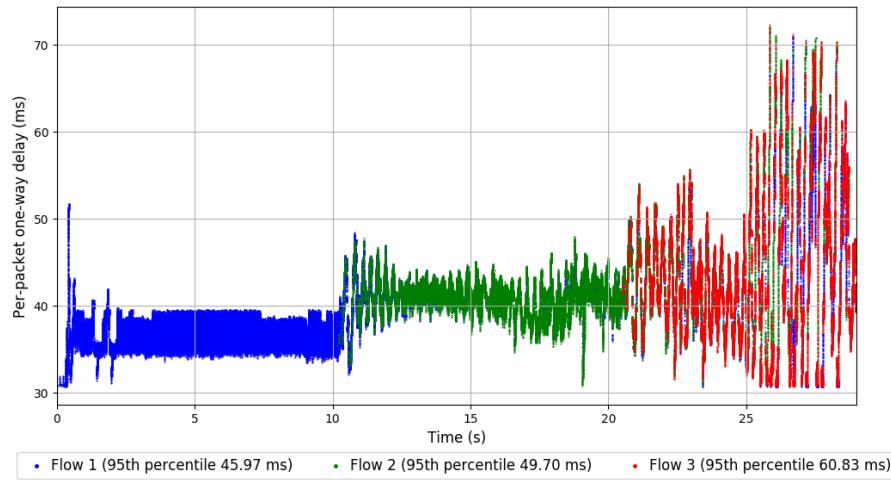
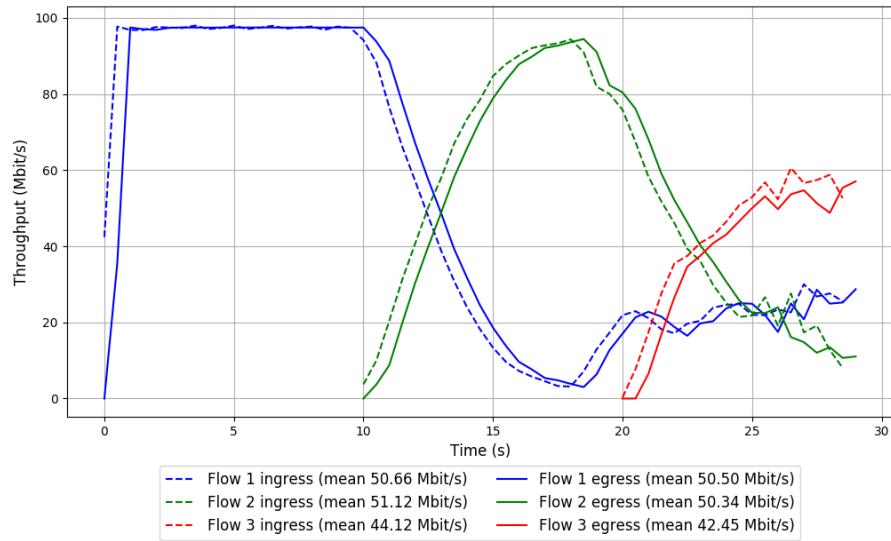


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-03-27 01:13:08
End at: 2019-03-27 01:13:38
Local clock offset: 0.074 ms
Remote clock offset: -2.459 ms

# Below is generated by plot.py at 2019-03-27 03:18:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 51.516 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 50.50 Mbit/s
95th percentile per-packet one-way delay: 45.965 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 50.34 Mbit/s
95th percentile per-packet one-way delay: 49.704 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: 60.828 ms
Loss rate: 3.79%
```

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

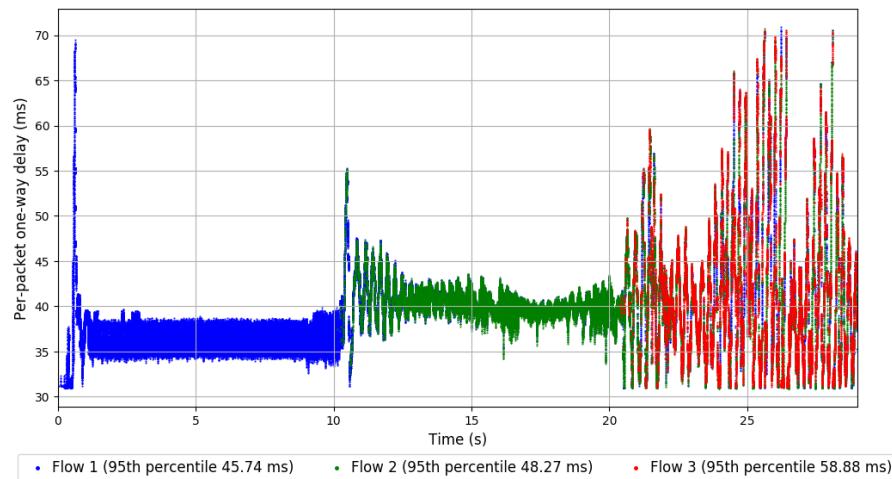
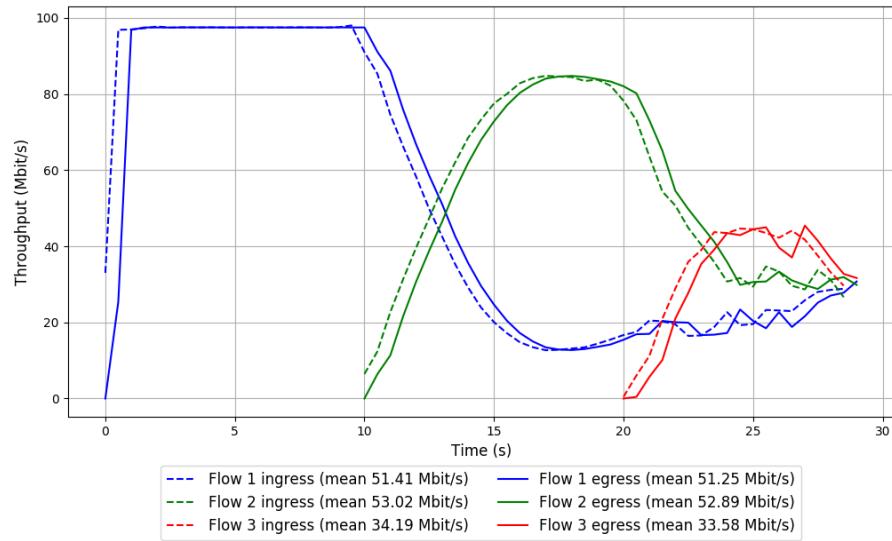


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 01:38:51
End at: 2019-03-27 01:39:21
Local clock offset: 0.326 ms
Remote clock offset: -1.123 ms

# Below is generated by plot.py at 2019-03-27 03:18:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 49.193 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 51.25 Mbit/s
95th percentile per-packet one-way delay: 45.742 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 48.267 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 58.884 ms
Loss rate: 1.80%
```

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

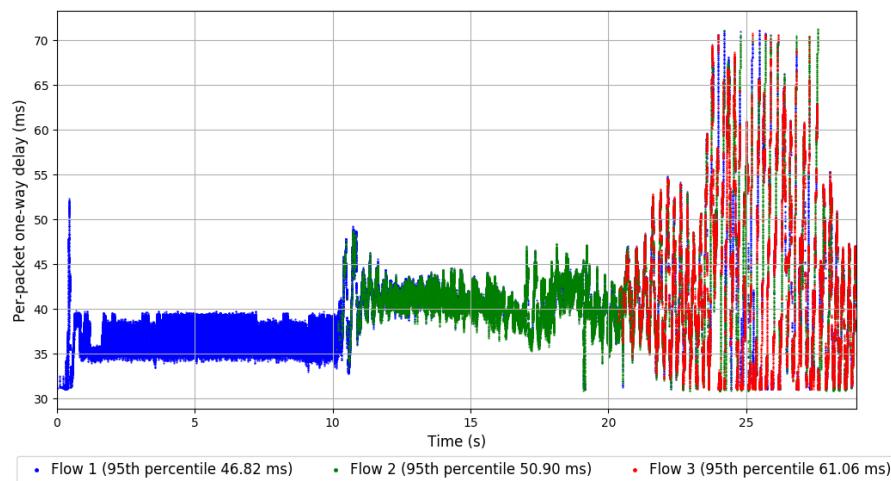
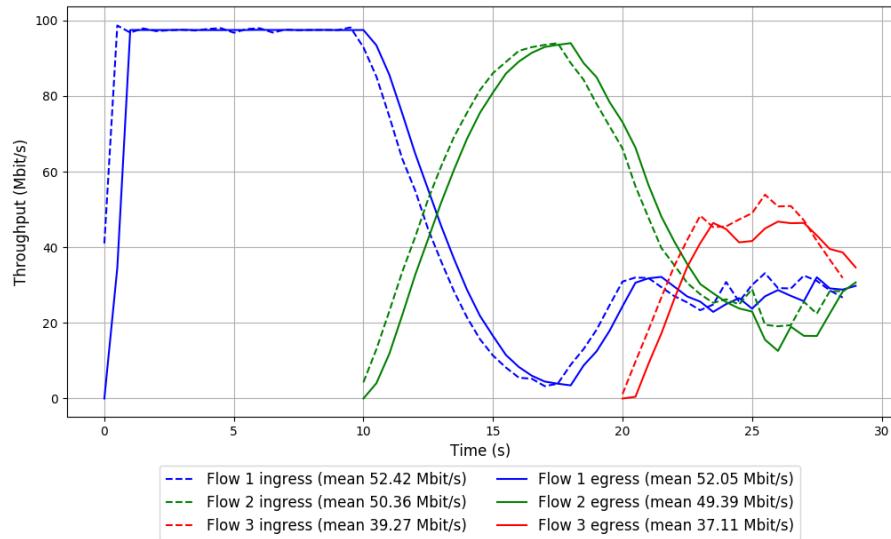


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 02:04:20
End at: 2019-03-27 02:04:50
Local clock offset: 0.181 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-03-27 03:18:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 52.362 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 52.05 Mbit/s
95th percentile per-packet one-way delay: 46.816 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 49.39 Mbit/s
95th percentile per-packet one-way delay: 50.895 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 37.11 Mbit/s
95th percentile per-packet one-way delay: 61.061 ms
Loss rate: 5.51%
```

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

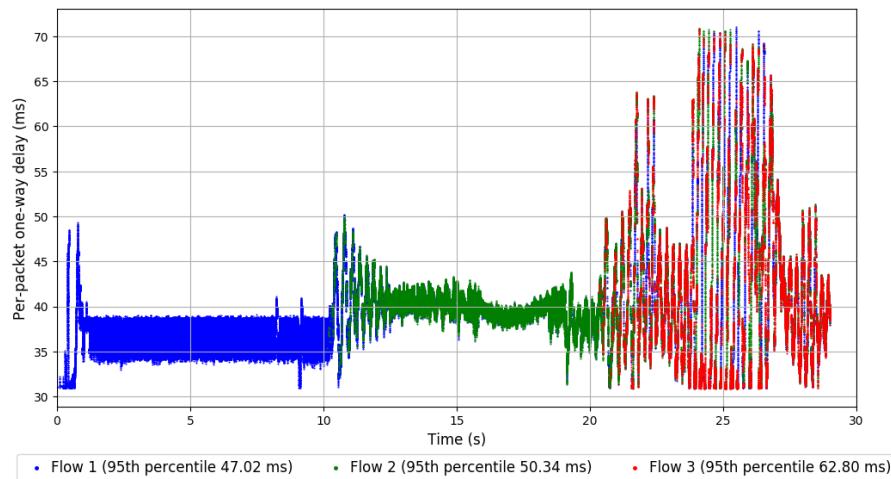
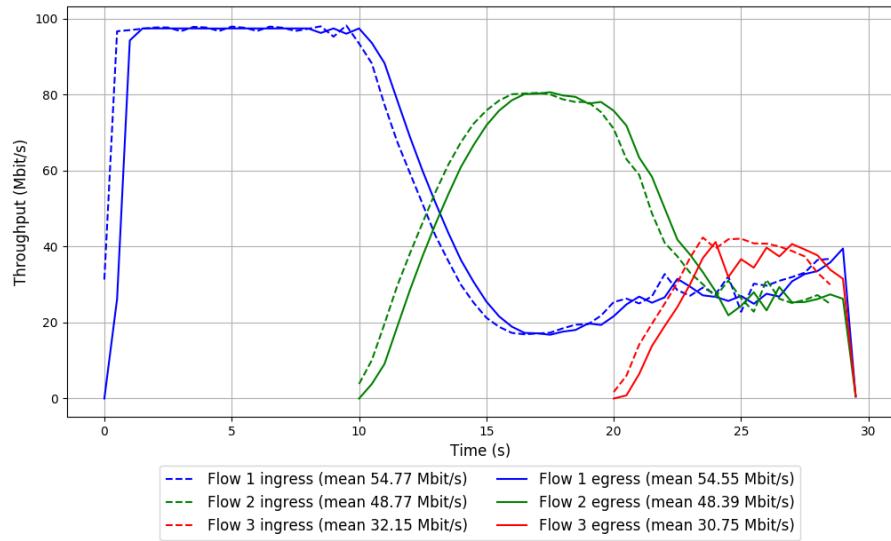


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 02:30:20
End at: 2019-03-27 02:30:50
Local clock offset: 0.233 ms
Remote clock offset: 0.915 ms

# Below is generated by plot.py at 2019-03-27 03:18:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 51.366 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 54.55 Mbit/s
95th percentile per-packet one-way delay: 47.023 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 48.39 Mbit/s
95th percentile per-packet one-way delay: 50.341 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 62.804 ms
Loss rate: 4.37%
```

Run 4: Report of Indigo-MusesC3 — Data Link

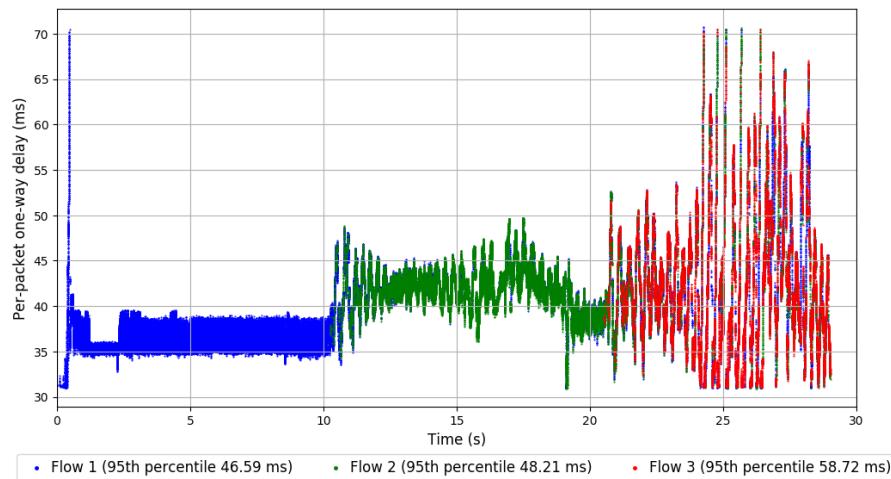
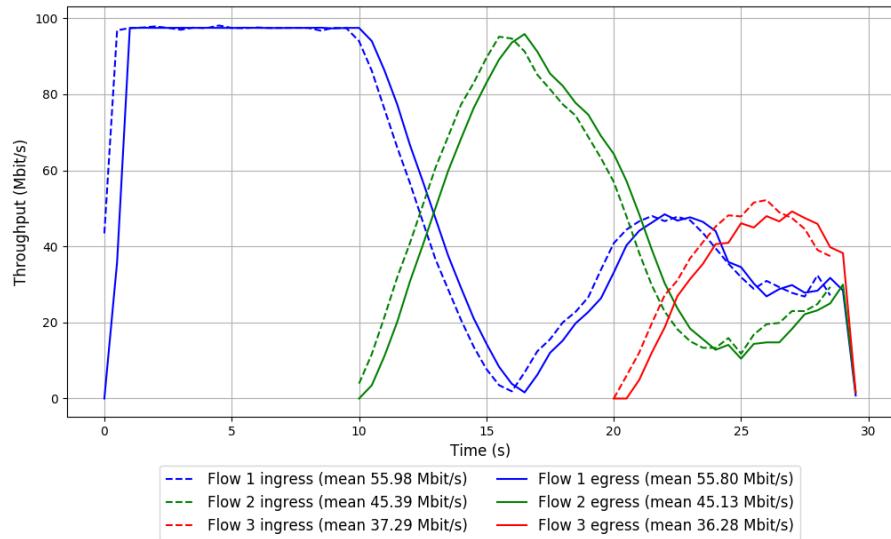


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-27 02:55:39
End at: 2019-03-27 02:56:09
Local clock offset: 0.482 ms
Remote clock offset: 1.764 ms

# Below is generated by plot.py at 2019-03-27 03:18:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 49.170 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 55.80 Mbit/s
95th percentile per-packet one-way delay: 46.588 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 45.13 Mbit/s
95th percentile per-packet one-way delay: 48.212 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 36.28 Mbit/s
95th percentile per-packet one-way delay: 58.720 ms
Loss rate: 2.79%
```

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

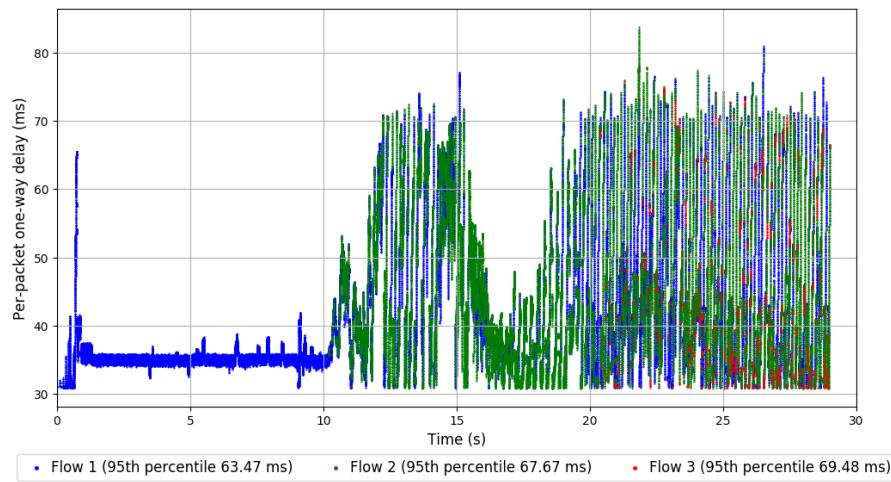
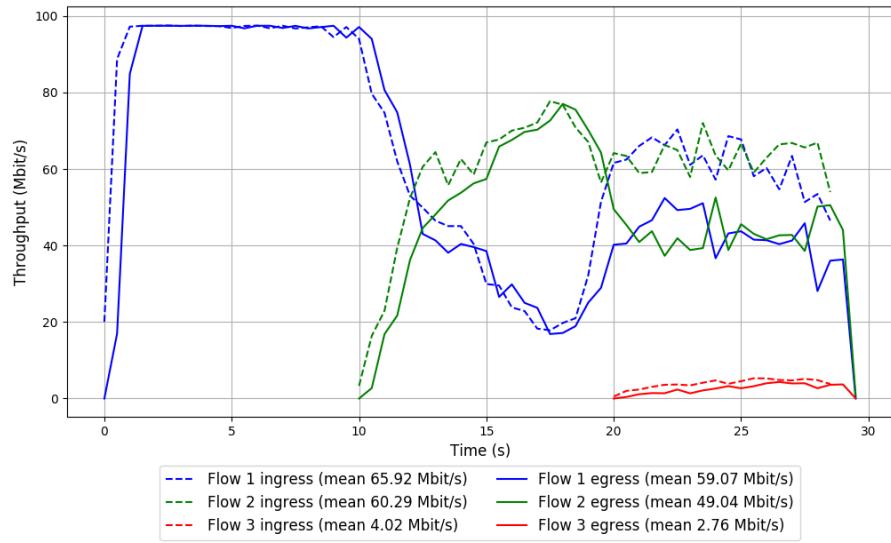


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 01:21:25
End at: 2019-03-27 01:21:55
Local clock offset: 0.175 ms
Remote clock offset: -1.92 ms

# Below is generated by plot.py at 2019-03-27 03:18:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 65.568 ms
Loss rate: 13.56%
-- Flow 1:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 63.465 ms
Loss rate: 10.28%
-- Flow 2:
Average throughput: 49.04 Mbit/s
95th percentile per-packet one-way delay: 67.669 ms
Loss rate: 18.53%
-- Flow 3:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 69.477 ms
Loss rate: 30.94%
```

Run 1: Report of Indigo-MusesC5 — Data Link

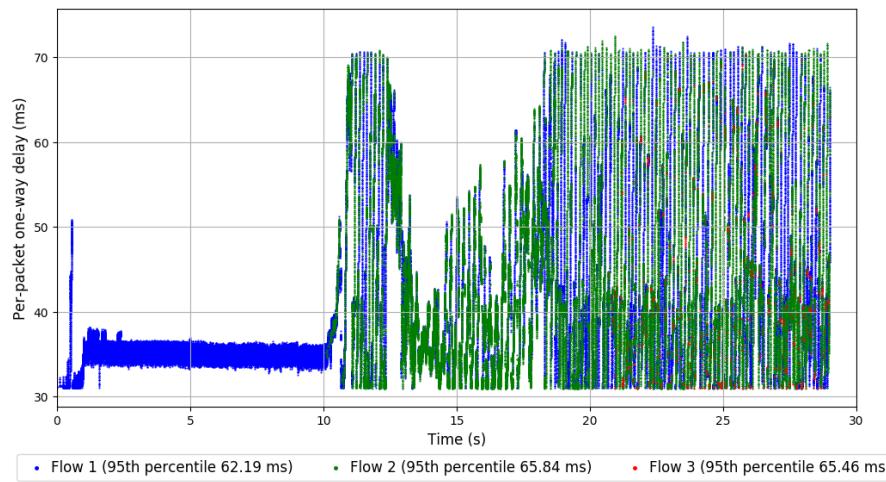
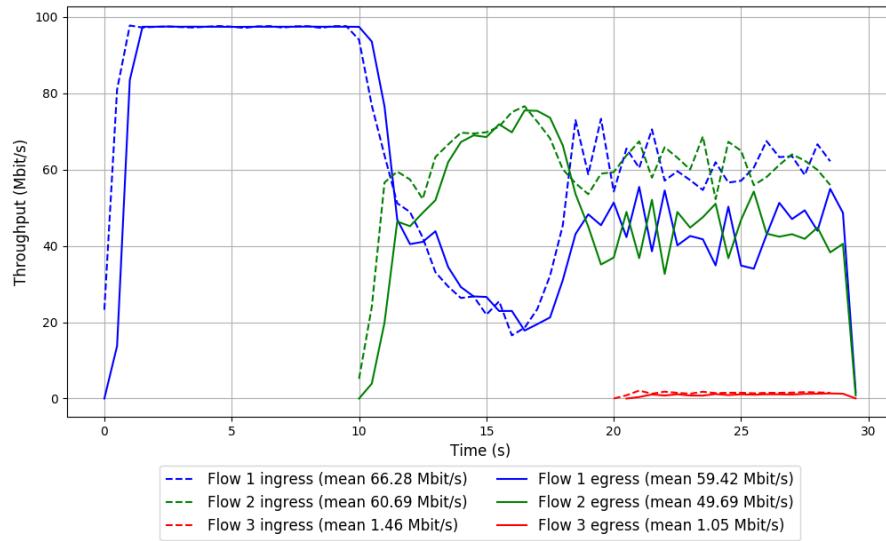


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 01:47:08
End at: 2019-03-27 01:47:39
Local clock offset: 0.339 ms
Remote clock offset: -0.699 ms

# Below is generated by plot.py at 2019-03-27 03:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 64.027 ms
Loss rate: 13.22%
-- Flow 1:
Average throughput: 59.42 Mbit/s
95th percentile per-packet one-way delay: 62.186 ms
Loss rate: 10.24%
-- Flow 2:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 65.843 ms
Loss rate: 17.99%
-- Flow 3:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 65.459 ms
Loss rate: 31.85%
```

Run 2: Report of Indigo-MusesC5 — Data Link

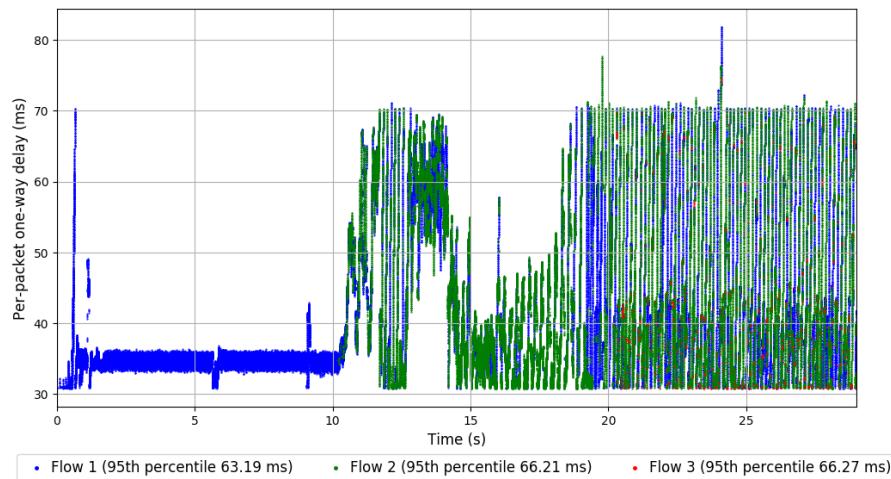
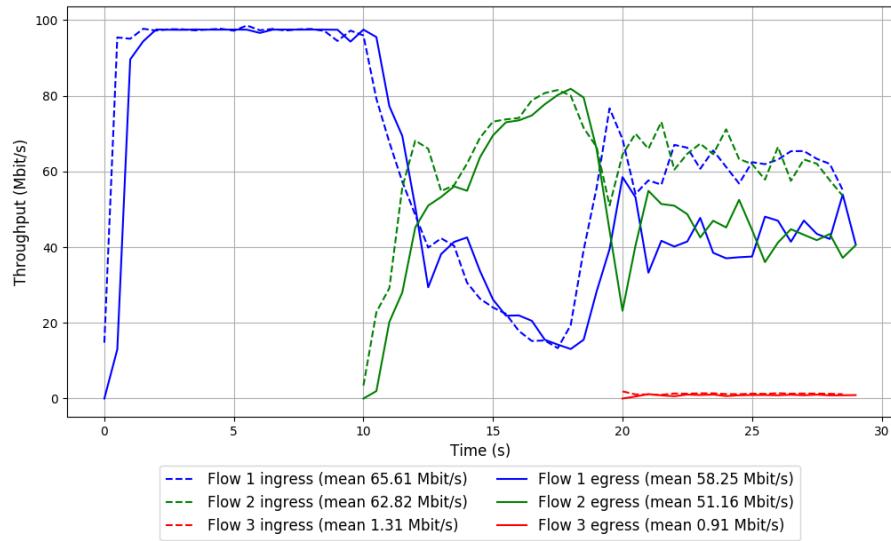


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 02:12:45
End at: 2019-03-27 02:13:15
Local clock offset: 0.095 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2019-03-27 03:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 64.614 ms
Loss rate: 14.09%
-- Flow 1:
Average throughput: 58.25 Mbit/s
95th percentile per-packet one-way delay: 63.191 ms
Loss rate: 11.19%
-- Flow 2:
Average throughput: 51.16 Mbit/s
95th percentile per-packet one-way delay: 66.209 ms
Loss rate: 18.59%
-- Flow 3:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 66.269 ms
Loss rate: 30.66%
```

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

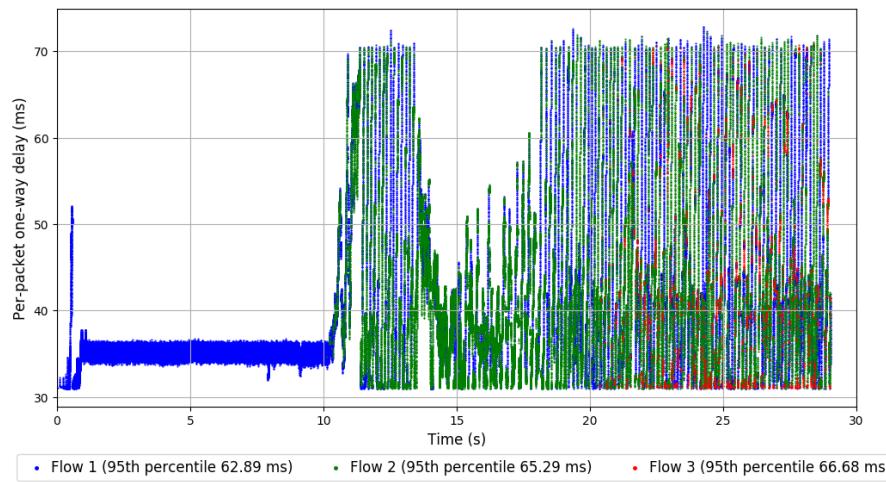
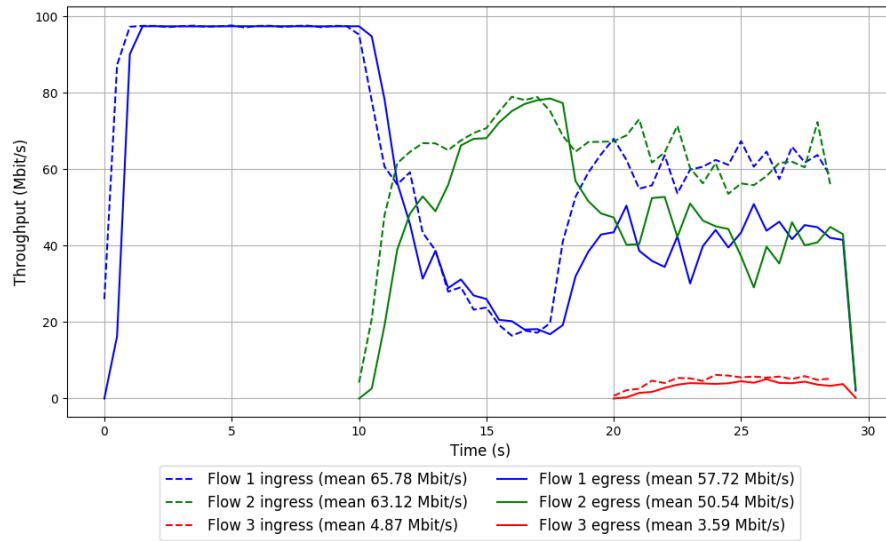


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 02:38:42
End at: 2019-03-27 02:39:12
Local clock offset: 0.394 ms
Remote clock offset: 1.229 ms

# Below is generated by plot.py at 2019-03-27 03:19:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 63.944 ms
Loss rate: 15.33%
-- Flow 1:
Average throughput: 57.72 Mbit/s
95th percentile per-packet one-way delay: 62.891 ms
Loss rate: 12.22%
-- Flow 2:
Average throughput: 50.54 Mbit/s
95th percentile per-packet one-way delay: 65.293 ms
Loss rate: 19.93%
-- Flow 3:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 66.676 ms
Loss rate: 26.19%
```

Run 4: Report of Indigo-MusesC5 — Data Link

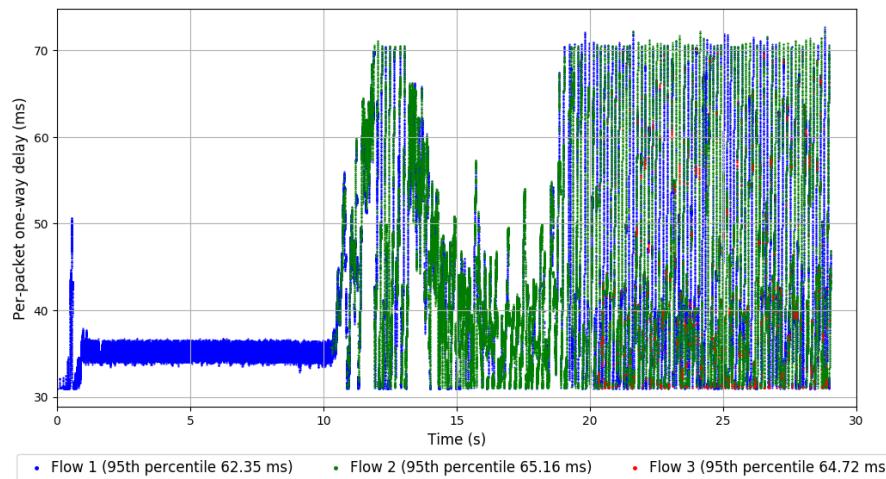
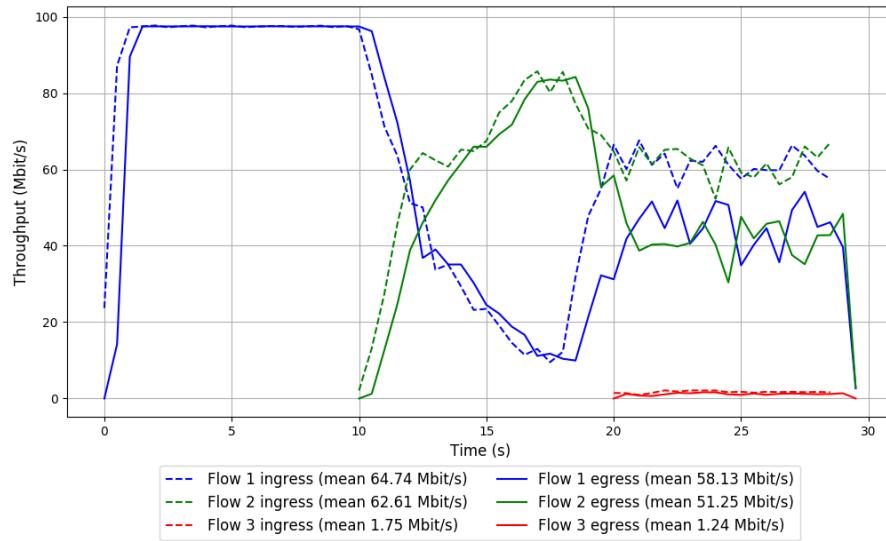


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-27 03:04:01
End at: 2019-03-27 03:04:31
Local clock offset: 0.558 ms
Remote clock offset: 1.913 ms

# Below is generated by plot.py at 2019-03-27 03:19:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 63.794 ms
Loss rate: 13.29%
-- Flow 1:
Average throughput: 58.13 Mbit/s
95th percentile per-packet one-way delay: 62.348 ms
Loss rate: 10.16%
-- Flow 2:
Average throughput: 51.25 Mbit/s
95th percentile per-packet one-way delay: 65.158 ms
Loss rate: 18.10%
-- Flow 3:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 64.719 ms
Loss rate: 29.17%
```

Run 5: Report of Indigo-MusesC5 — Data Link

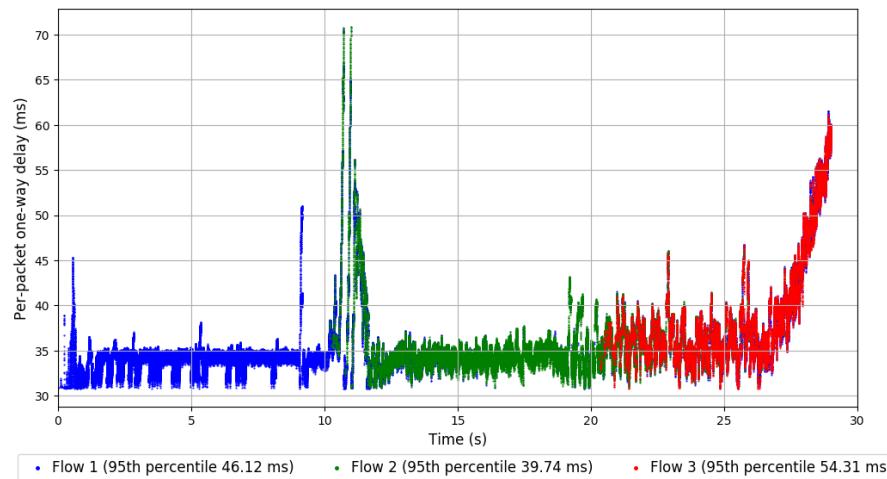
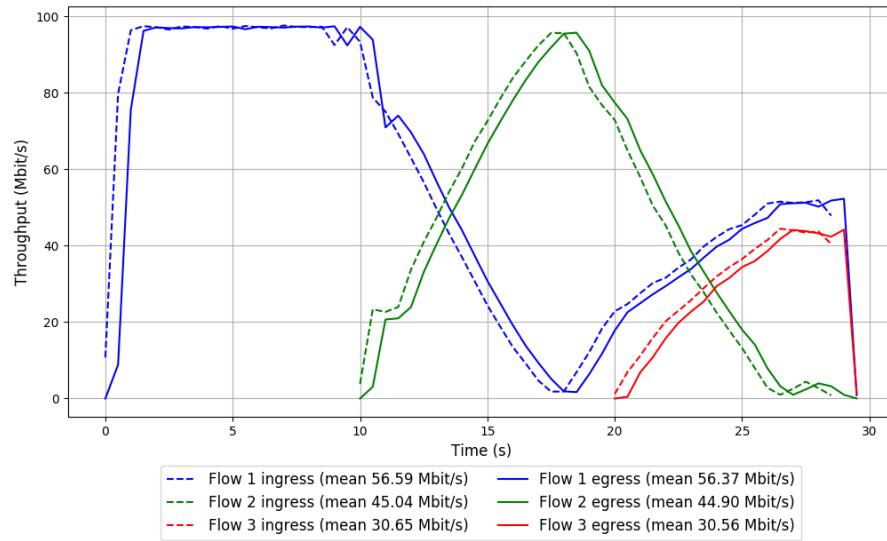


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 01:10:42
End at: 2019-03-27 01:11:12
Local clock offset: 0.081 ms
Remote clock offset: -2.491 ms

# Below is generated by plot.py at 2019-03-27 03:19:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 46.283 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 56.37 Mbit/s
95th percentile per-packet one-way delay: 46.124 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 44.90 Mbit/s
95th percentile per-packet one-way delay: 39.737 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 54.314 ms
Loss rate: 0.00%
```

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

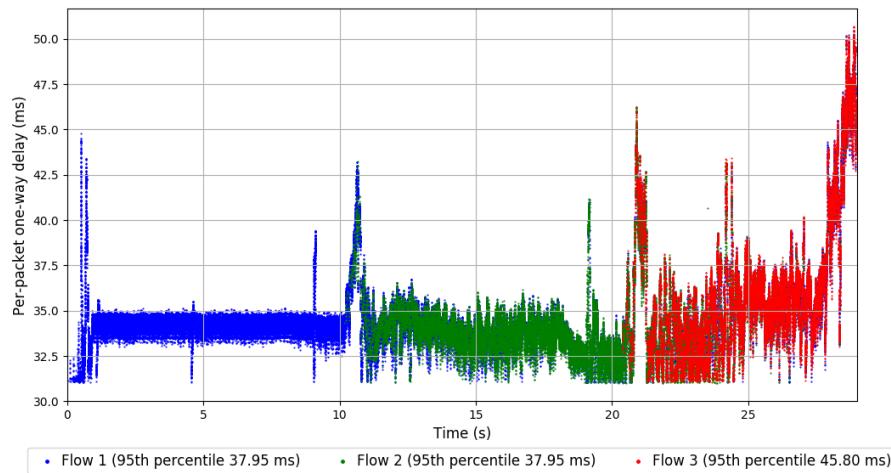
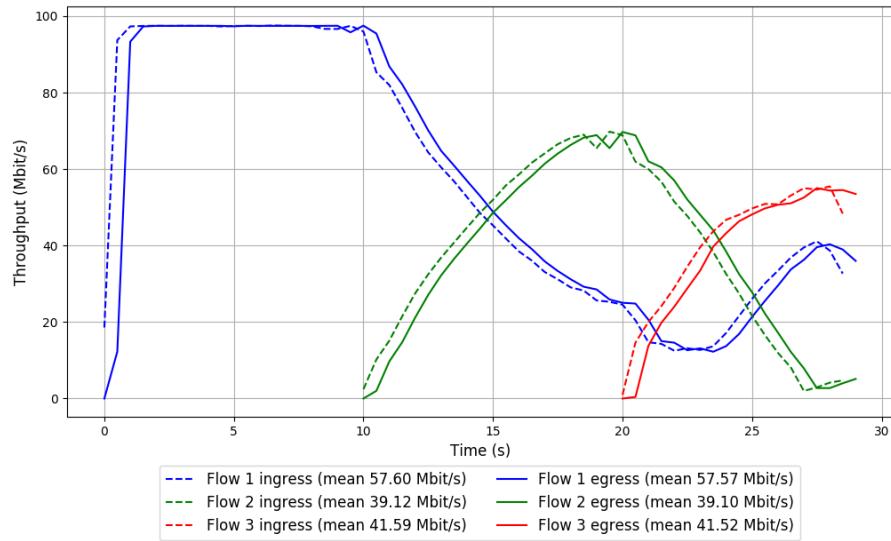


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 01:36:25
End at: 2019-03-27 01:36:55
Local clock offset: 0.345 ms
Remote clock offset: -1.184 ms

# Below is generated by plot.py at 2019-03-27 03:19:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 39.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.57 Mbit/s
95th percentile per-packet one-way delay: 37.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 37.950 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 45.797 ms
Loss rate: 0.00%
```

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

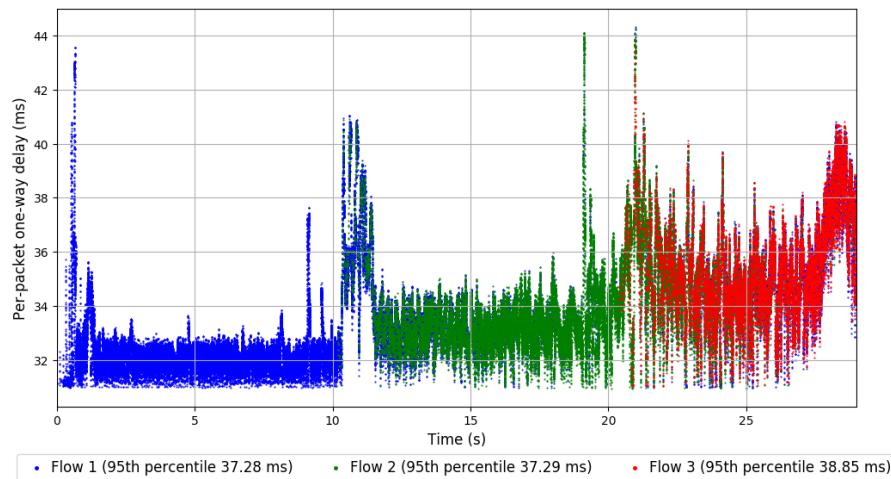
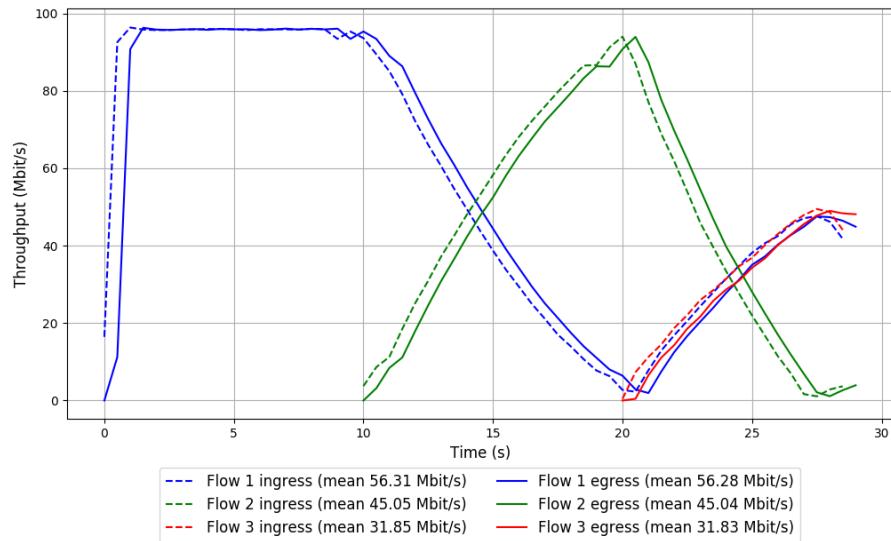


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 02:01:51
End at: 2019-03-27 02:02:21
Local clock offset: 0.189 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-03-27 03:20:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 37.669 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 56.28 Mbit/s
95th percentile per-packet one-way delay: 37.279 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 45.04 Mbit/s
95th percentile per-packet one-way delay: 37.291 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 38.853 ms
Loss rate: 0.01%
```

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

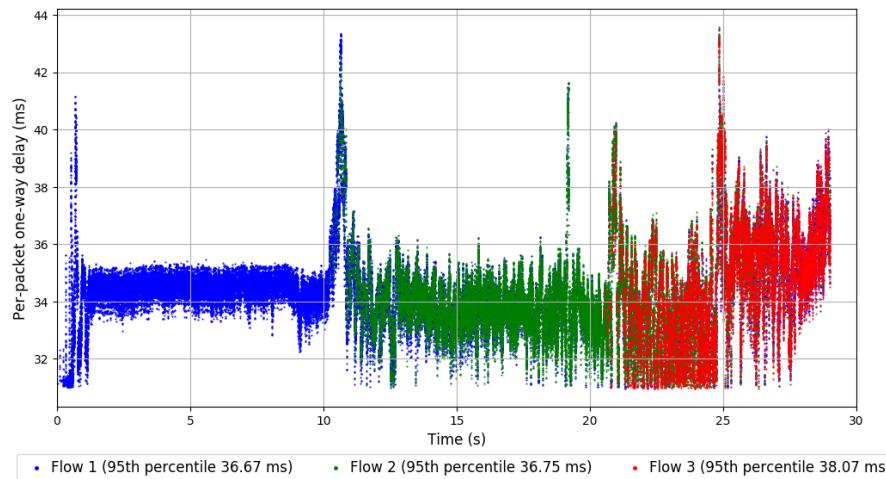
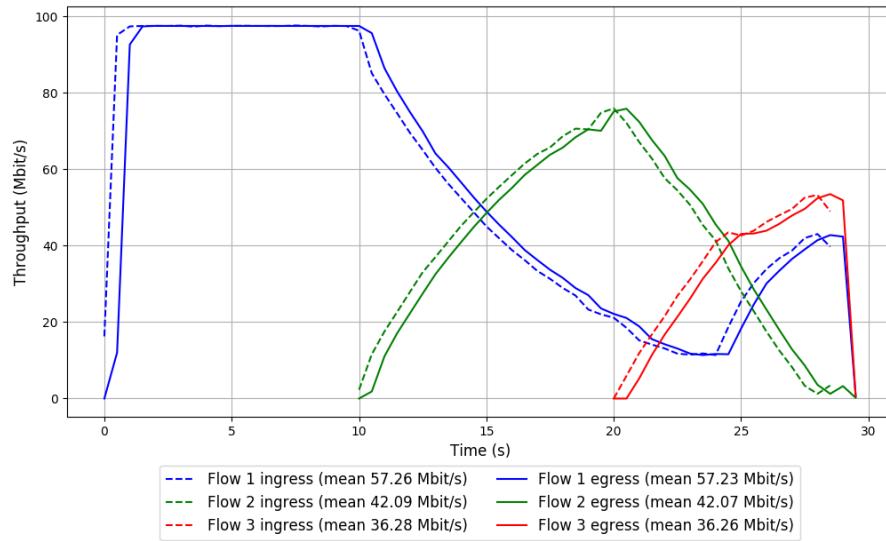


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 02:27:48
End at: 2019-03-27 02:28:18
Local clock offset: 0.185 ms
Remote clock offset: 0.848 ms

# Below is generated by plot.py at 2019-03-27 03:20:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 37.017 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 57.23 Mbit/s
95th percentile per-packet one-way delay: 36.669 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 36.751 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 38.074 ms
Loss rate: 0.00%
```

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

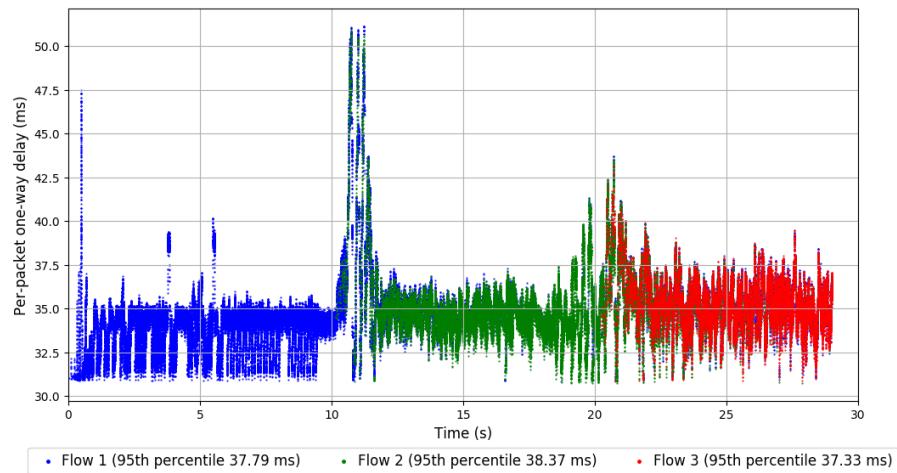
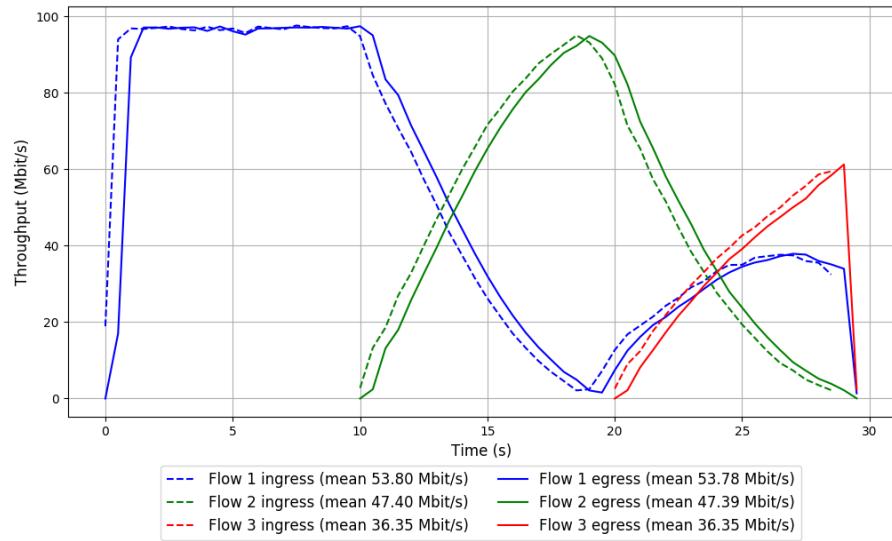


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-27 02:53:13
End at: 2019-03-27 02:53:43
Local clock offset: 0.485 ms
Remote clock offset: 1.537 ms

# Below is generated by plot.py at 2019-03-27 03:20:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 37.897 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.78 Mbit/s
95th percentile per-packet one-way delay: 37.790 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 47.39 Mbit/s
95th percentile per-packet one-way delay: 38.373 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 37.329 ms
Loss rate: 0.00%
```

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

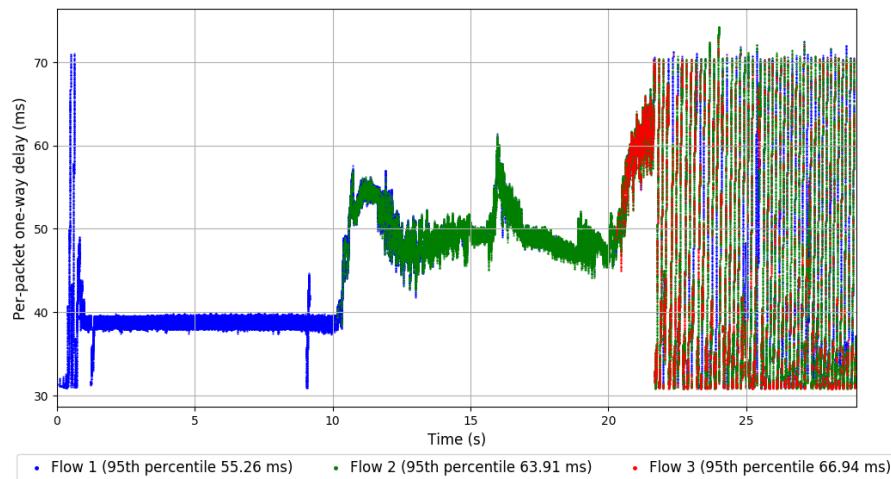
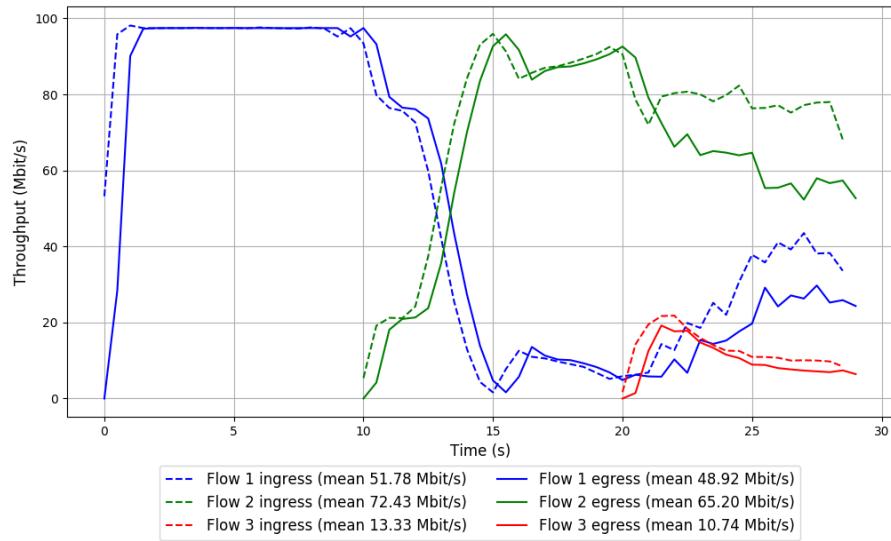


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 01:17:54
End at: 2019-03-27 01:18:24
Local clock offset: 0.107 ms
Remote clock offset: -2.109 ms

# Below is generated by plot.py at 2019-03-27 03:20:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 62.195 ms
Loss rate: 8.12%
-- Flow 1:
Average throughput: 48.92 Mbit/s
95th percentile per-packet one-way delay: 55.262 ms
Loss rate: 5.51%
-- Flow 2:
Average throughput: 65.20 Mbit/s
95th percentile per-packet one-way delay: 63.907 ms
Loss rate: 10.00%
-- Flow 3:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 66.935 ms
Loss rate: 19.59%
```

Run 1: Report of Indigo-MusesT — Data Link

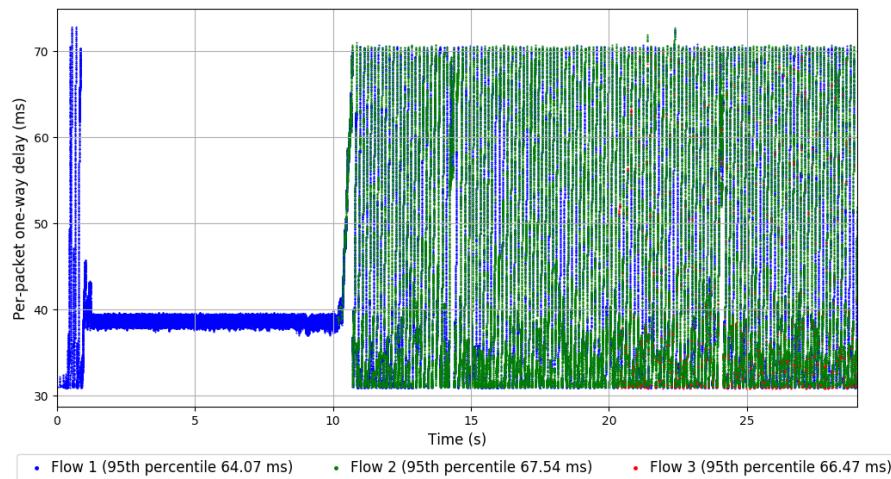
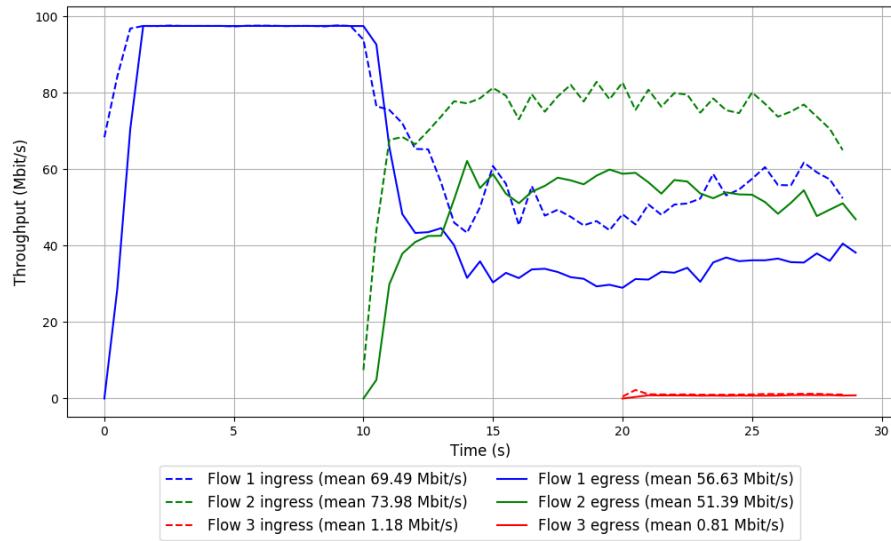


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 01:43:37
End at: 2019-03-27 01:44:07
Local clock offset: 0.365 ms
Remote clock offset: -0.892 ms

# Below is generated by plot.py at 2019-03-27 03:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.35 Mbit/s
95th percentile per-packet one-way delay: 66.087 ms
Loss rate: 23.40%
-- Flow 1:
Average throughput: 56.63 Mbit/s
95th percentile per-packet one-way delay: 64.069 ms
Loss rate: 18.45%
-- Flow 2:
Average throughput: 51.39 Mbit/s
95th percentile per-packet one-way delay: 67.537 ms
Loss rate: 30.48%
-- Flow 3:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 66.471 ms
Loss rate: 30.66%
```

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

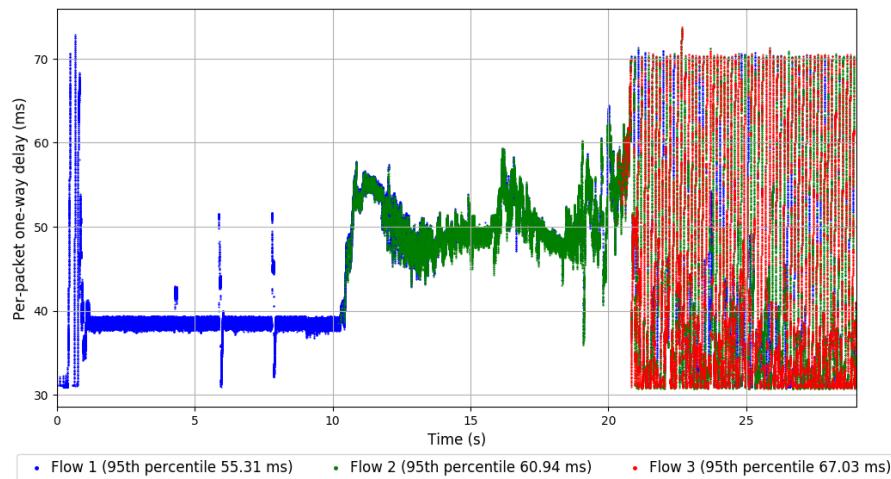
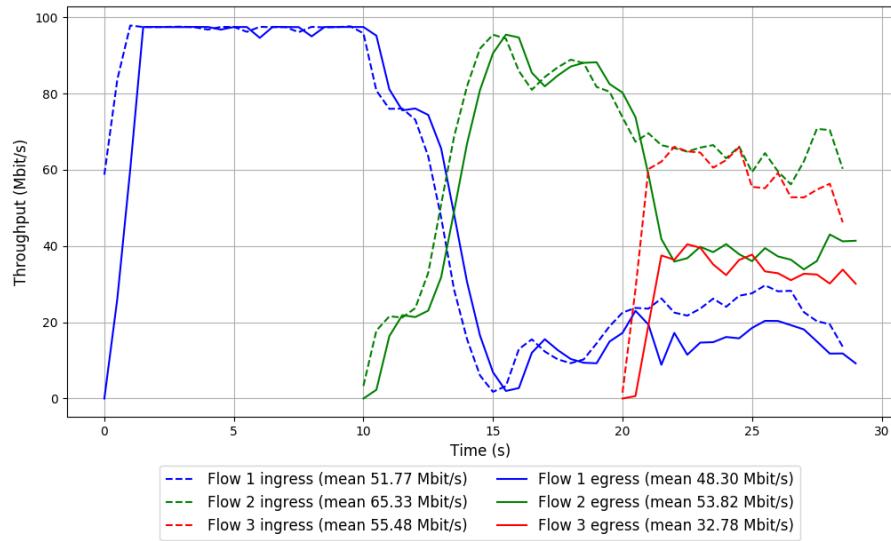


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 02:09:11
End at: 2019-03-27 02:09:41
Local clock offset: 0.137 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-03-27 03:20:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 60.104 ms
Loss rate: 16.04%
-- Flow 1:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 55.313 ms
Loss rate: 6.67%
-- Flow 2:
Average throughput: 53.82 Mbit/s
95th percentile per-packet one-way delay: 60.936 ms
Loss rate: 17.61%
-- Flow 3:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 67.029 ms
Loss rate: 41.00%
```

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

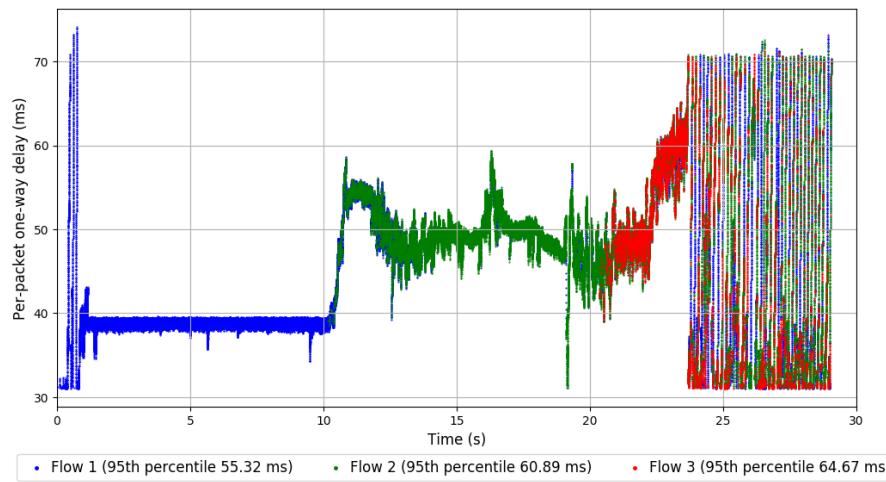
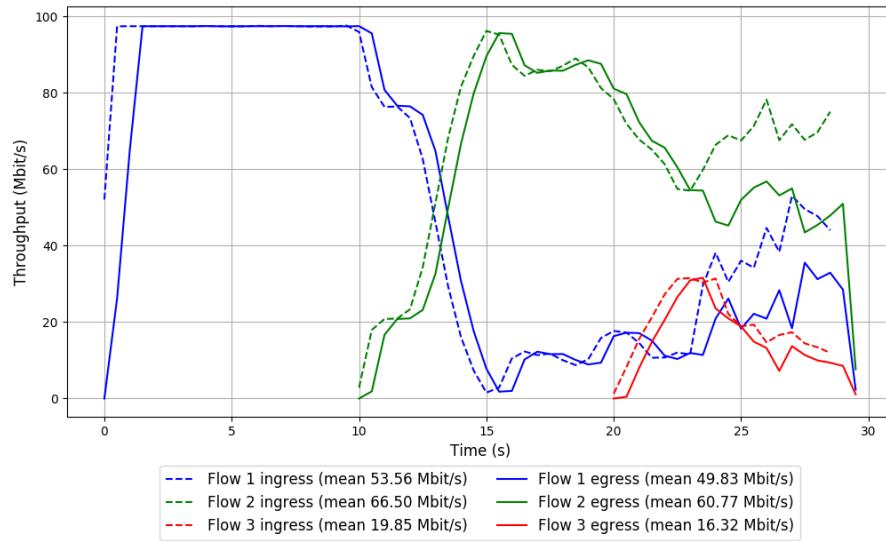


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 02:35:10
End at: 2019-03-27 02:35:40
Local clock offset: 0.325 ms
Remote clock offset: 1.061 ms

# Below is generated by plot.py at 2019-03-27 03:21:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 60.000 ms
Loss rate: 8.15%
-- Flow 1:
Average throughput: 49.83 Mbit/s
95th percentile per-packet one-way delay: 55.321 ms
Loss rate: 6.84%
-- Flow 2:
Average throughput: 60.77 Mbit/s
95th percentile per-packet one-way delay: 60.887 ms
Loss rate: 8.46%
-- Flow 3:
Average throughput: 16.32 Mbit/s
95th percentile per-packet one-way delay: 64.671 ms
Loss rate: 17.63%
```

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

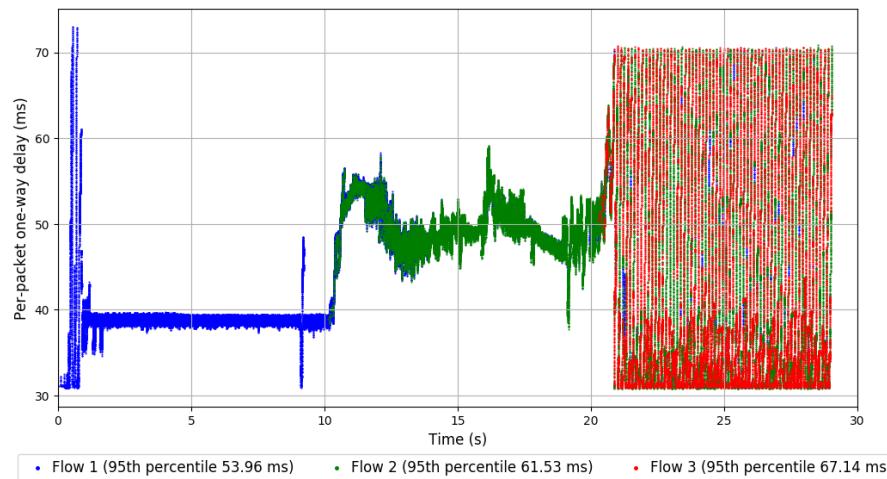
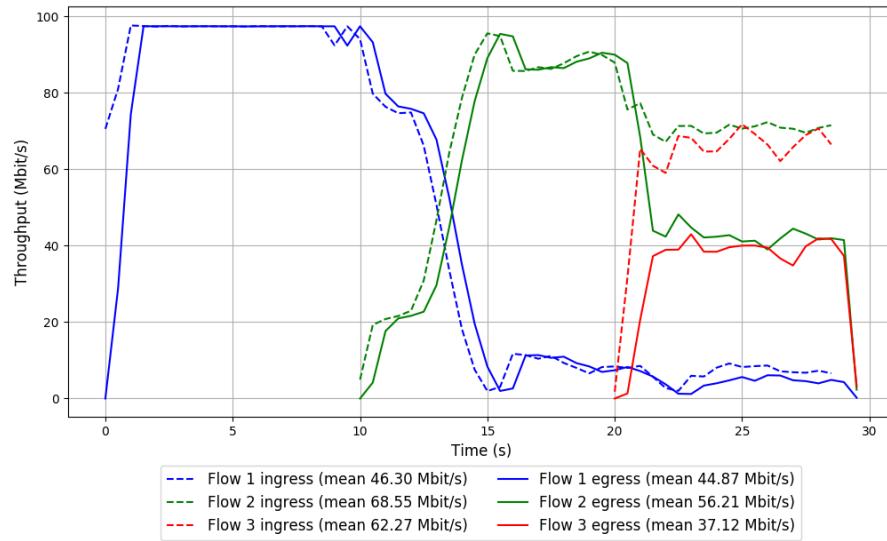


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-27 03:00:29
End at: 2019-03-27 03:00:59
Local clock offset: 0.531 ms
Remote clock offset: 1.698 ms

# Below is generated by plot.py at 2019-03-27 03:21:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 59.732 ms
Loss rate: 15.56%
-- Flow 1:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 53.964 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 56.21 Mbit/s
95th percentile per-packet one-way delay: 61.535 ms
Loss rate: 17.98%
-- Flow 3:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 67.138 ms
Loss rate: 40.47%
```

Run 5: Report of Indigo-MusesT — Data Link

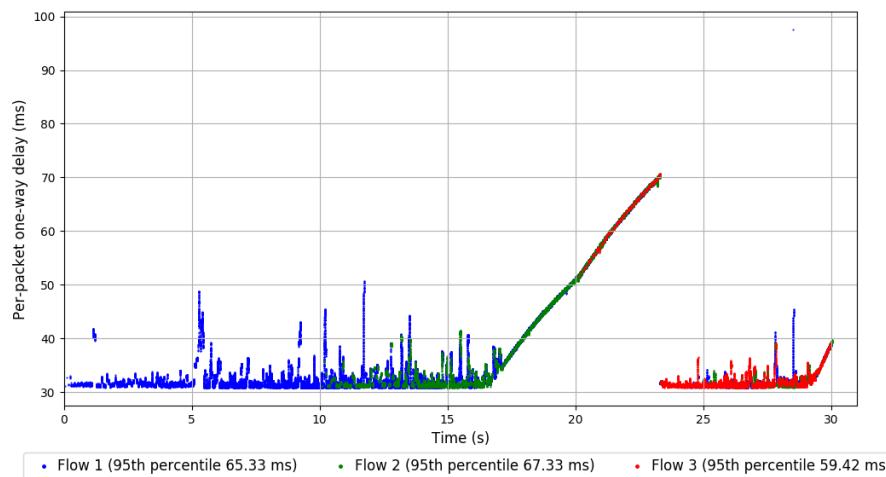
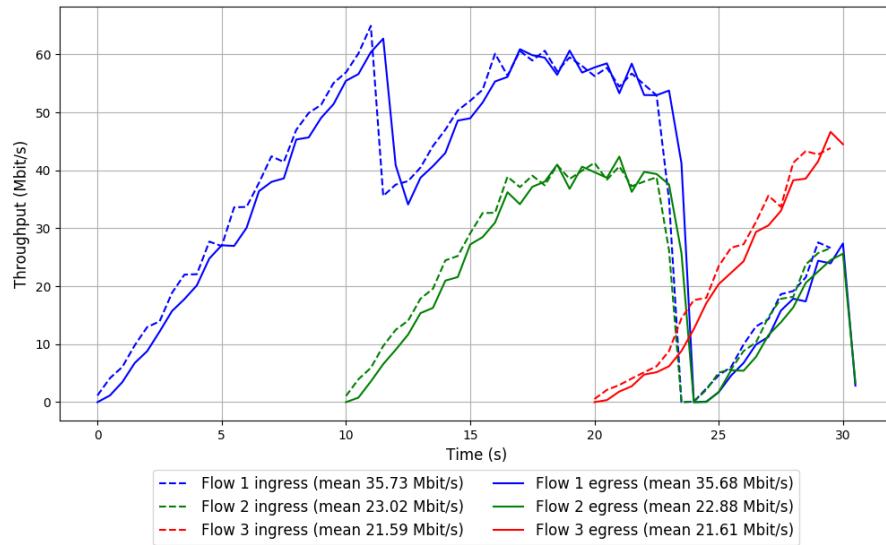


```
Run 1: Statistics of LEDBAT

Start at: 2019-03-27 01:25:15
End at: 2019-03-27 01:25:45
Local clock offset: 0.228 ms
Remote clock offset: -1.778 ms

# Below is generated by plot.py at 2019-03-27 03:21:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.05 Mbit/s
95th percentile per-packet one-way delay: 65.842 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 35.68 Mbit/s
95th percentile per-packet one-way delay: 65.332 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 67.325 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 21.61 Mbit/s
95th percentile per-packet one-way delay: 59.417 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

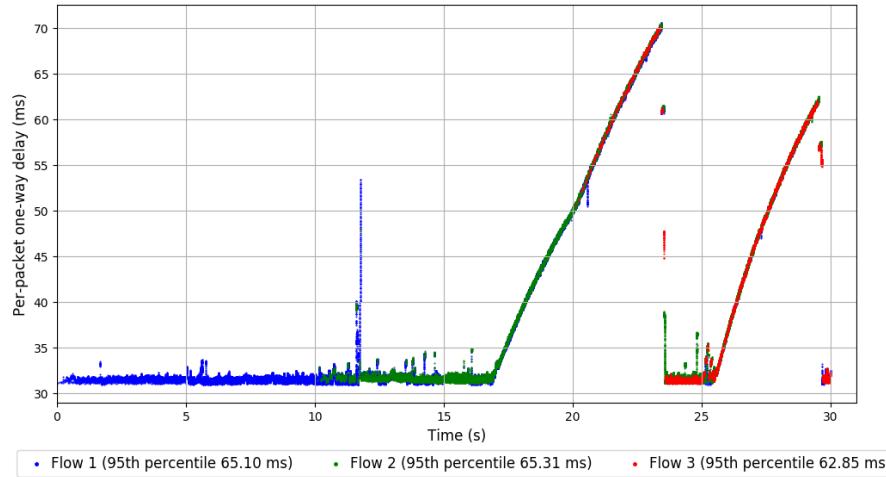
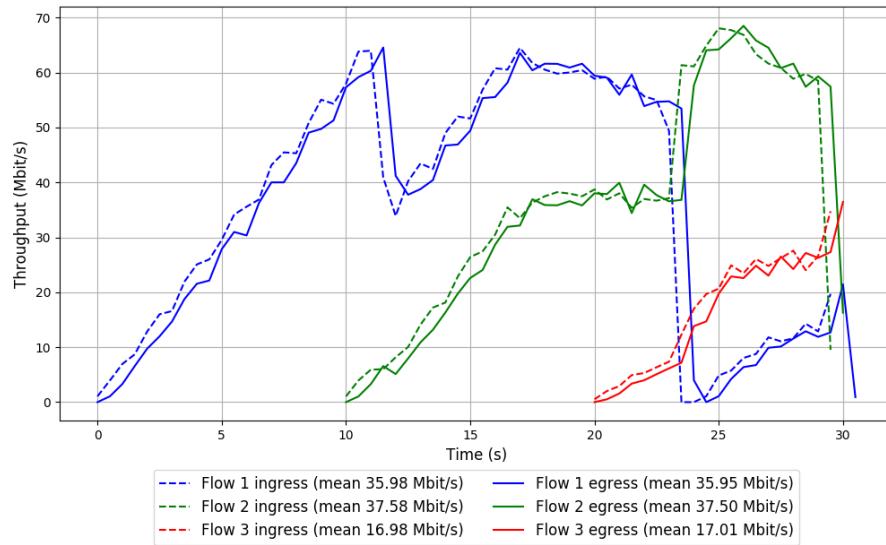


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-27 01:50:50
End at: 2019-03-27 01:51:20
Local clock offset: 0.278 ms
Remote clock offset: -0.614 ms

# Below is generated by plot.py at 2019-03-27 03:21:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.10 Mbit/s
95th percentile per-packet one-way delay: 65.058 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 35.95 Mbit/s
95th percentile per-packet one-way delay: 65.098 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 37.50 Mbit/s
95th percentile per-packet one-way delay: 65.309 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 17.01 Mbit/s
95th percentile per-packet one-way delay: 62.851 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link

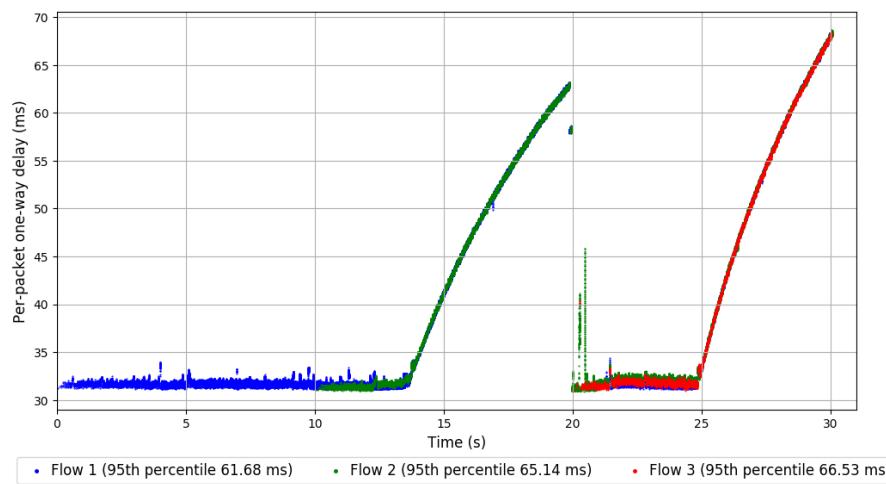
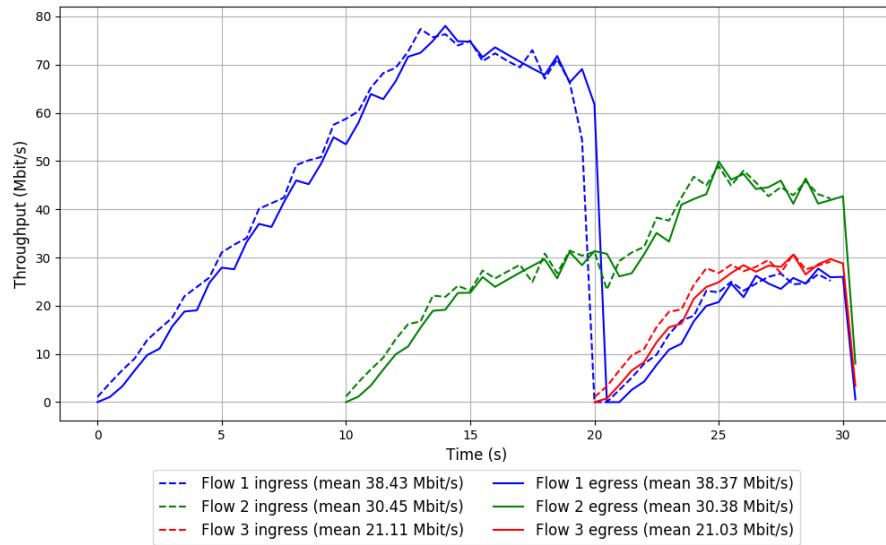


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-27 02:16:37
End at: 2019-03-27 02:17:07
Local clock offset: 0.026 ms
Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2019-03-27 03:21:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.54 Mbit/s
95th percentile per-packet one-way delay: 63.432 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 38.37 Mbit/s
95th percentile per-packet one-way delay: 61.681 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 30.38 Mbit/s
95th percentile per-packet one-way delay: 65.138 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 66.534 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

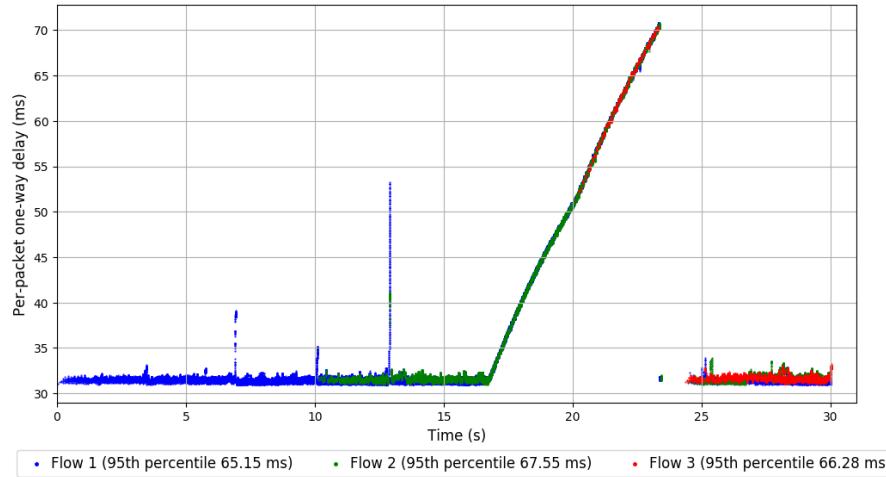
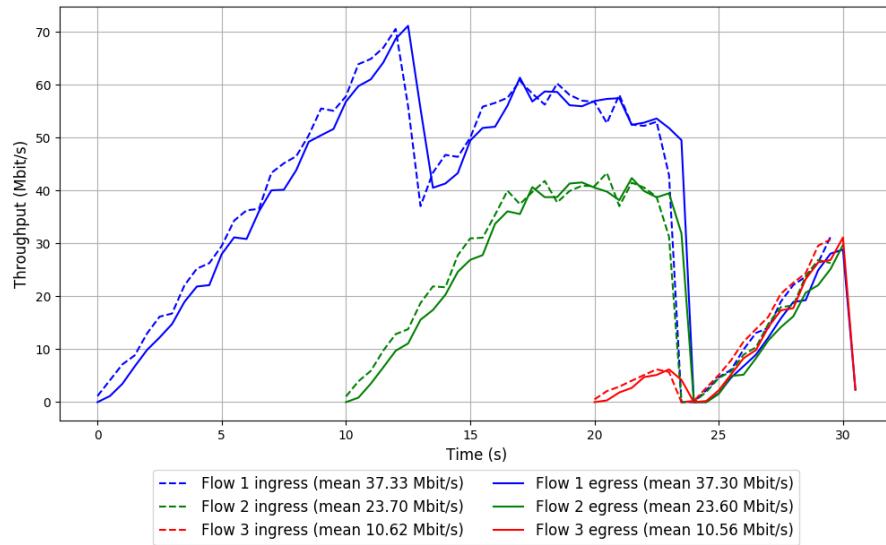


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-27 02:42:22
End at: 2019-03-27 02:42:52
Local clock offset: 0.442 ms
Remote clock offset: 1.366 ms

# Below is generated by plot.py at 2019-03-27 03:21:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 66.111 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 65.154 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 23.60 Mbit/s
95th percentile per-packet one-way delay: 67.549 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 10.56 Mbit/s
95th percentile per-packet one-way delay: 66.276 ms
Loss rate: 0.70%
```

Run 4: Report of LEDBAT — Data Link

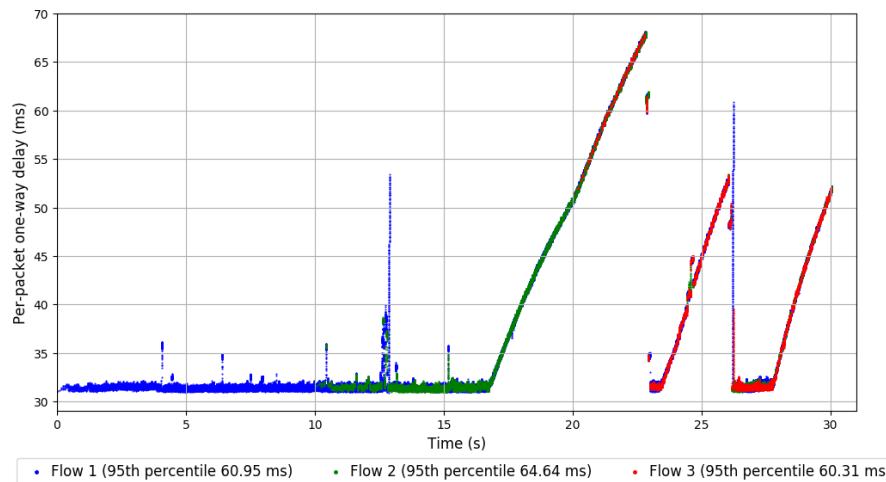
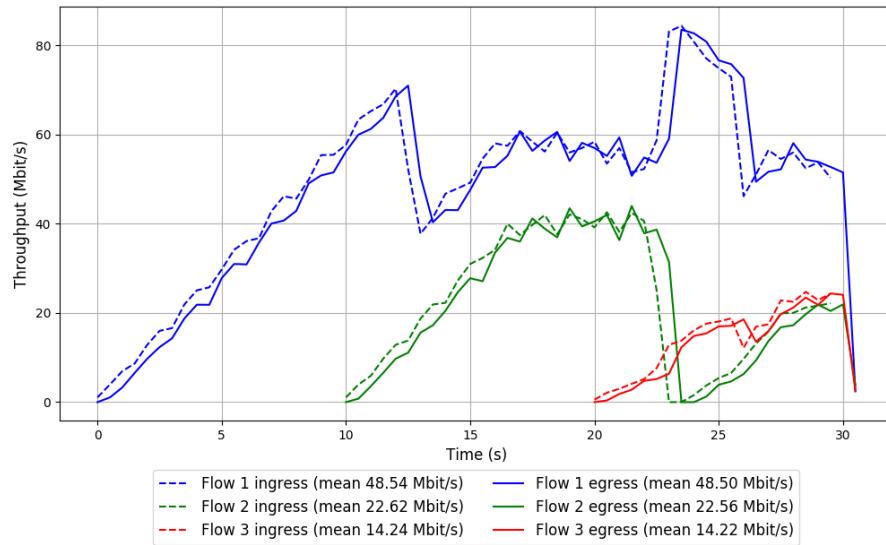


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-27 03:07:43
End at: 2019-03-27 03:08:13
Local clock offset: 0.597 ms
Remote clock offset: 1.871 ms

# Below is generated by plot.py at 2019-03-27 03:21:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.24 Mbit/s
95th percentile per-packet one-way delay: 62.208 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 48.50 Mbit/s
95th percentile per-packet one-way delay: 60.948 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 64.641 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 14.22 Mbit/s
95th percentile per-packet one-way delay: 60.311 ms
Loss rate: 0.20%
```

Run 5: Report of LEDBAT — Data Link

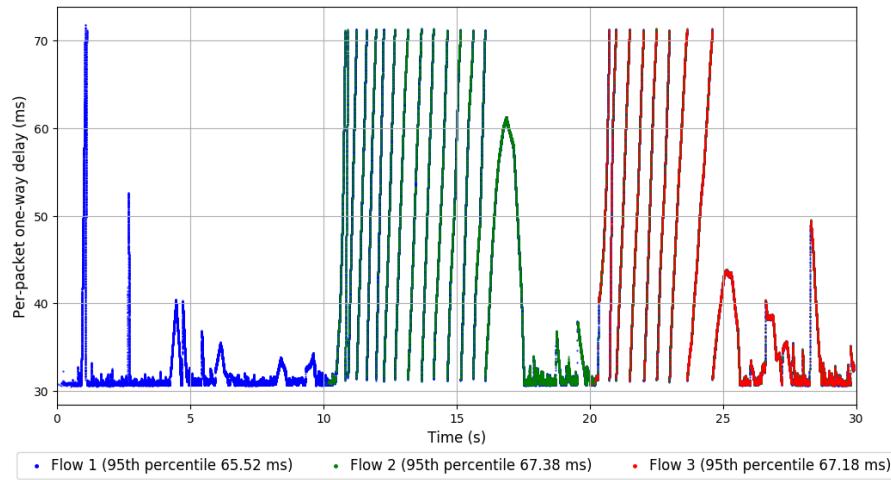
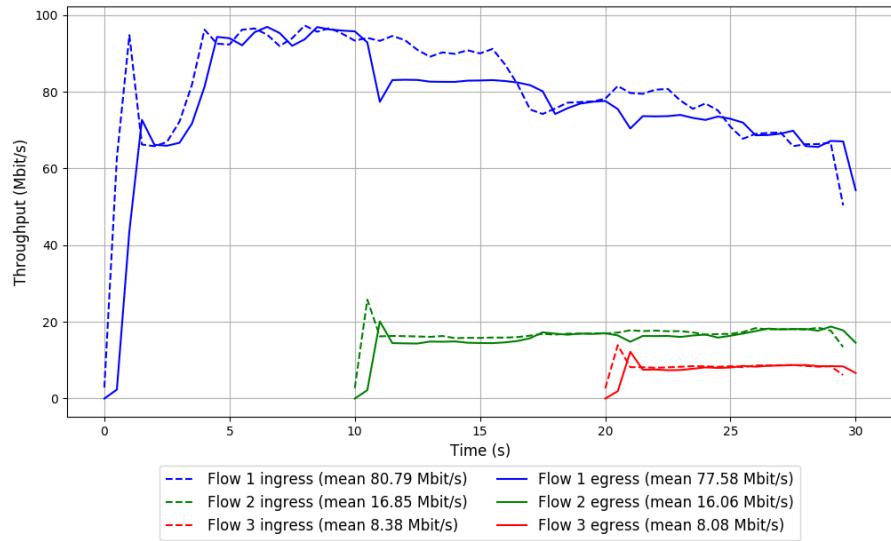


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-27 01:05:49
End at: 2019-03-27 01:06:19
Local clock offset: 0.108 ms
Remote clock offset: -2.921 ms

# Below is generated by plot.py at 2019-03-27 03:21:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 65.911 ms
Loss rate: 4.04%
-- Flow 1:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 65.523 ms
Loss rate: 3.97%
-- Flow 2:
Average throughput: 16.06 Mbit/s
95th percentile per-packet one-way delay: 67.377 ms
Loss rate: 4.69%
-- Flow 3:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 67.177 ms
Loss rate: 3.53%
```

Run 1: Report of PCC-Allegro — Data Link

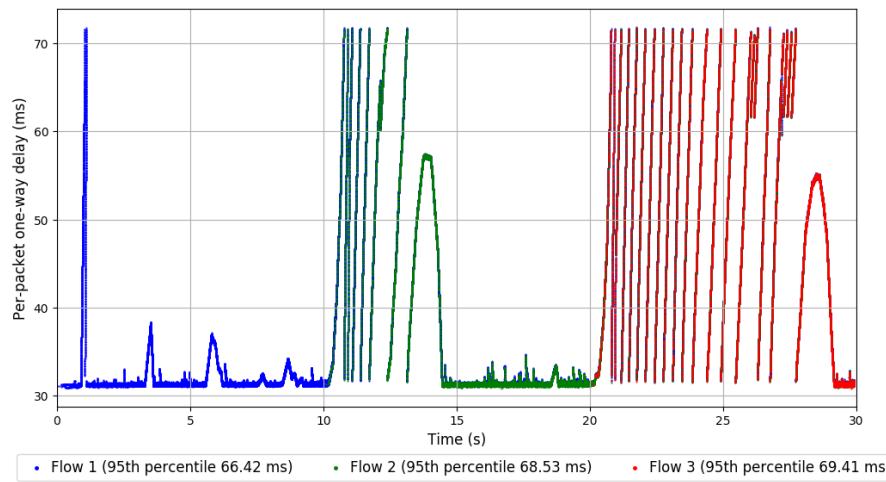
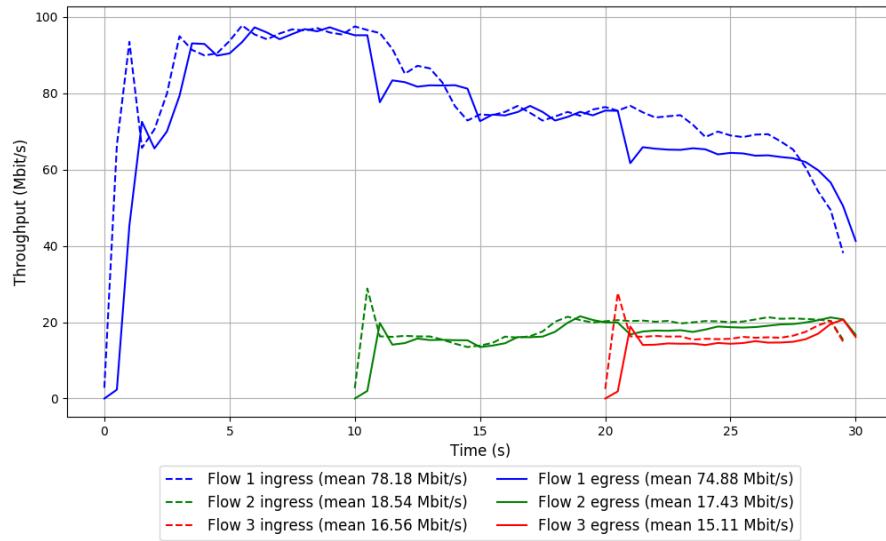


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-27 01:31:29
End at: 2019-03-27 01:31:59
Local clock offset: 0.302 ms
Remote clock offset: -1.387 ms

# Below is generated by plot.py at 2019-03-27 03:22:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.46 Mbit/s
95th percentile per-packet one-way delay: 67.179 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 74.88 Mbit/s
95th percentile per-packet one-way delay: 66.422 ms
Loss rate: 4.21%
-- Flow 2:
Average throughput: 17.43 Mbit/s
95th percentile per-packet one-way delay: 68.529 ms
Loss rate: 5.98%
-- Flow 3:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 69.412 ms
Loss rate: 8.74%
```

Run 2: Report of PCC-Allegro — Data Link

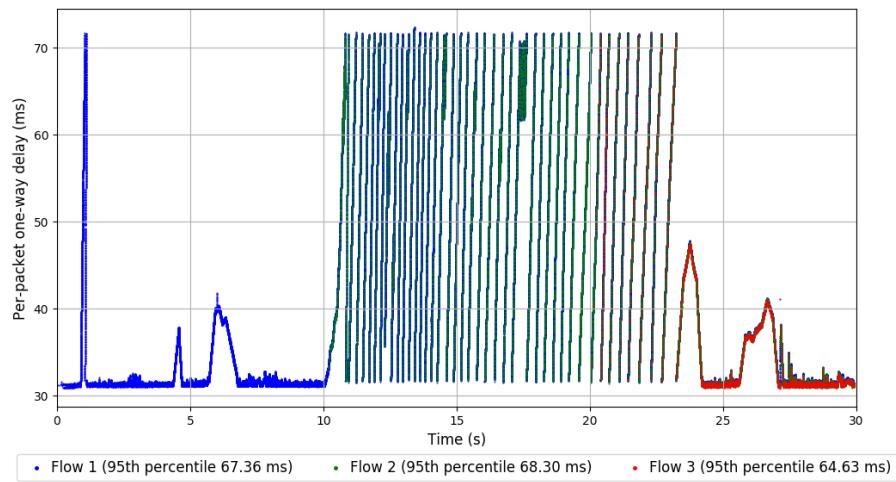
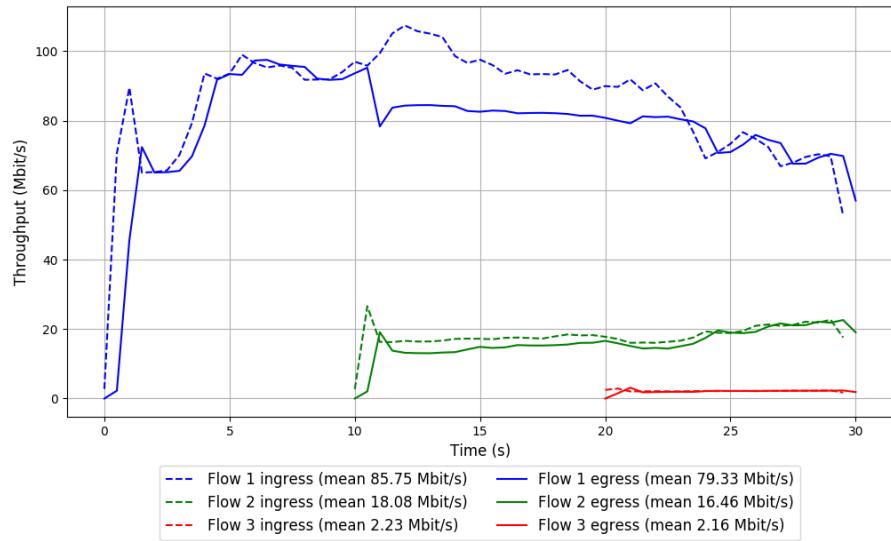


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-27 01:56:51
End at: 2019-03-27 01:57:21
Local clock offset: 0.225 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2019-03-27 03:22:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 67.505 ms
Loss rate: 7.63%
-- Flow 1:
Average throughput: 79.33 Mbit/s
95th percentile per-packet one-way delay: 67.359 ms
Loss rate: 7.49%
-- Flow 2:
Average throughput: 16.46 Mbit/s
95th percentile per-packet one-way delay: 68.295 ms
Loss rate: 8.91%
-- Flow 3:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 64.629 ms
Loss rate: 3.25%
```

Run 3: Report of PCC-Allegro — Data Link

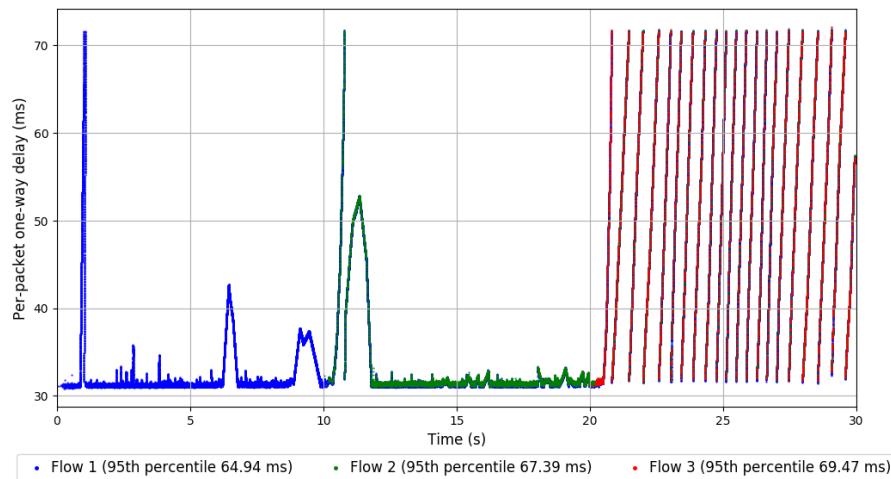
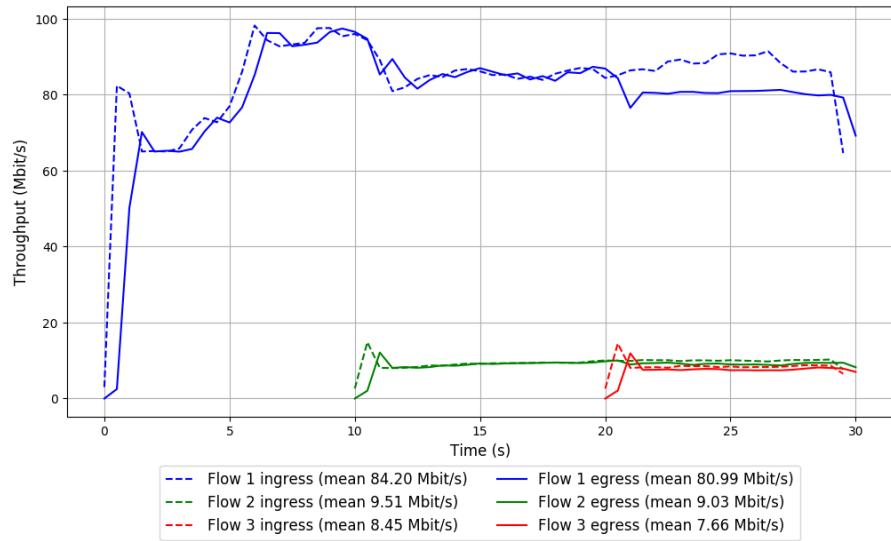


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-27 02:22:45
End at: 2019-03-27 02:23:15
Local clock offset: 0.077 ms
Remote clock offset: 0.683 ms

# Below is generated by plot.py at 2019-03-27 03:22:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.53 Mbit/s
95th percentile per-packet one-way delay: 65.572 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 80.99 Mbit/s
95th percentile per-packet one-way delay: 64.936 ms
Loss rate: 3.73%
-- Flow 2:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 67.385 ms
Loss rate: 4.89%
-- Flow 3:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 69.474 ms
Loss rate: 9.11%
```

Run 4: Report of PCC-Allegro — Data Link

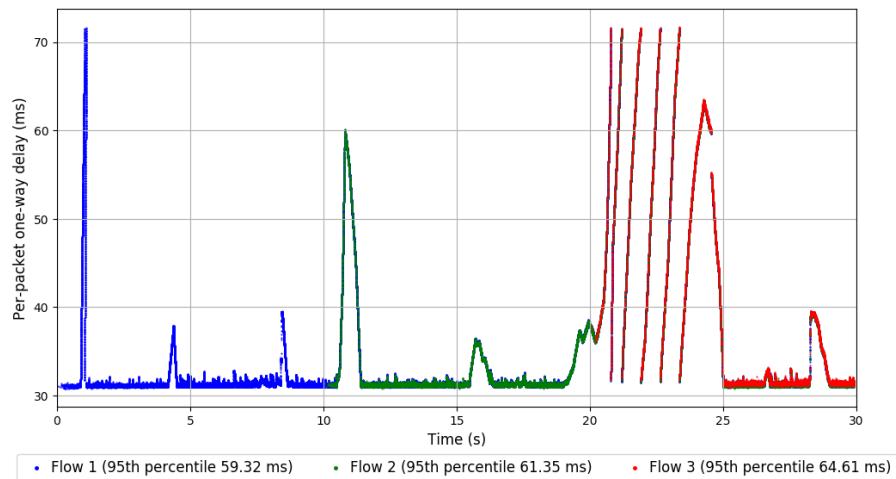
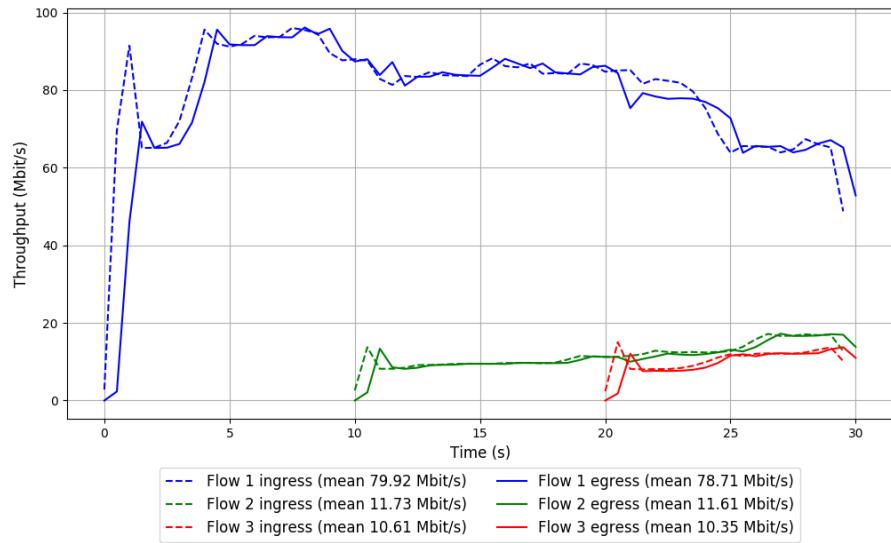


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-27 02:48:21
End at: 2019-03-27 02:48:51
Local clock offset: 0.483 ms
Remote clock offset: 1.541 ms

# Below is generated by plot.py at 2019-03-27 03:22:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 59.986 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 78.71 Mbit/s
95th percentile per-packet one-way delay: 59.316 ms
Loss rate: 1.55%
-- Flow 2:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 61.354 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 10.35 Mbit/s
95th percentile per-packet one-way delay: 64.610 ms
Loss rate: 2.53%
```

Run 5: Report of PCC-Allegro — Data Link

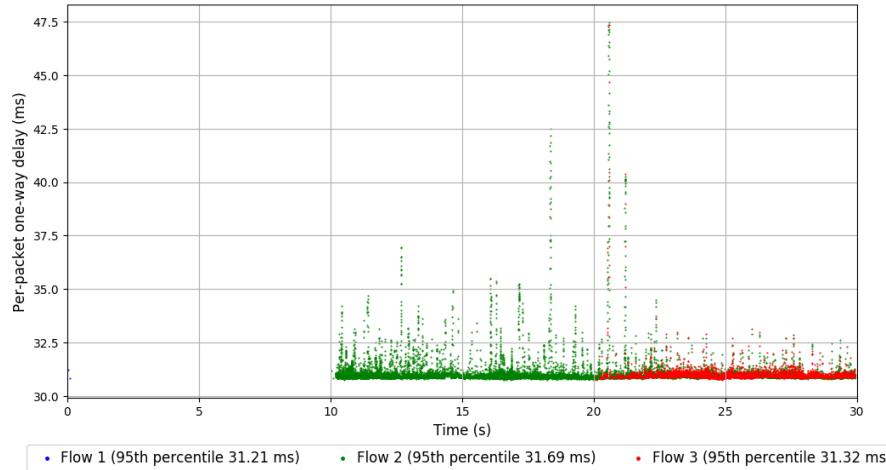
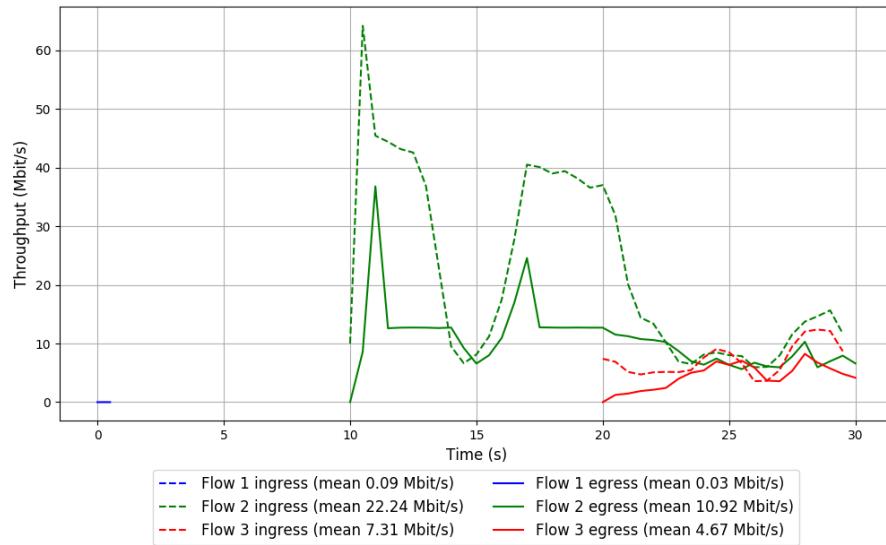


Run 1: Statistics of PCC-Expr

```
Start at: 2019-03-27 01:15:34
End at: 2019-03-27 01:16:04
Local clock offset: 0.066 ms
Remote clock offset: -2.291 ms

# Below is generated by plot.py at 2019-03-27 03:22:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 31.590 ms
Loss rate: 48.83%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 31.206 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.92 Mbit/s
95th percentile per-packet one-way delay: 31.687 ms
Loss rate: 50.89%
-- Flow 3:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 31.315 ms
Loss rate: 36.16%
```

Run 1: Report of PCC-Expr — Data Link

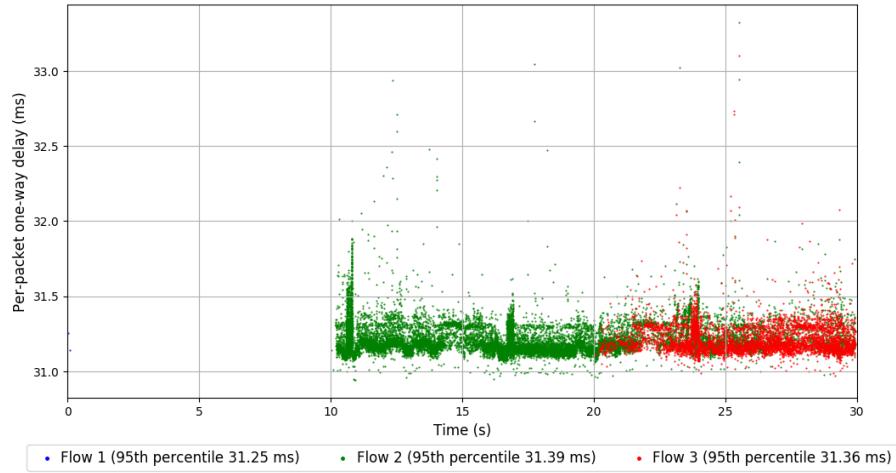
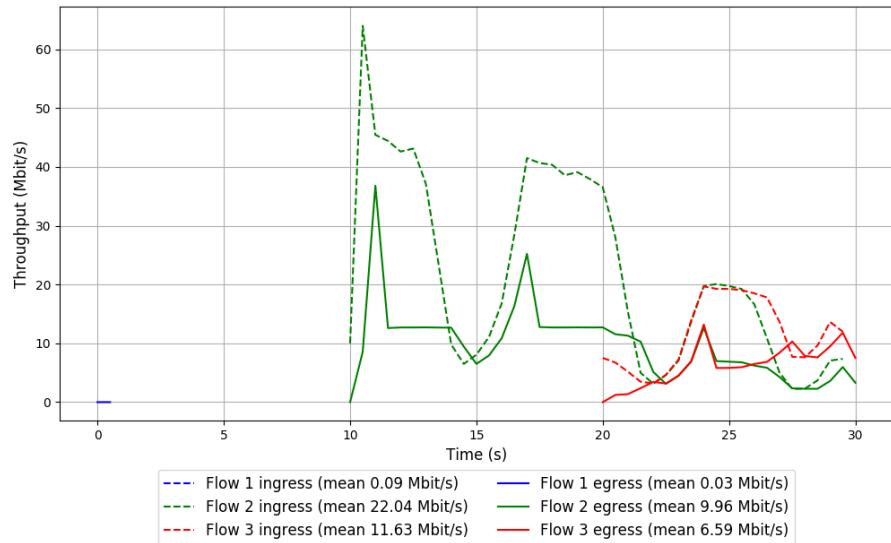


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-27 01:41:17
End at: 2019-03-27 01:41:47
Local clock offset: 0.312 ms
Remote clock offset: -0.952 ms

# Below is generated by plot.py at 2019-03-27 03:22:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 31.387 ms
Loss rate: 52.41%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 31.252 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.96 Mbit/s
95th percentile per-packet one-way delay: 31.395 ms
Loss rate: 54.79%
-- Flow 3:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 31.363 ms
Loss rate: 43.31%
```

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

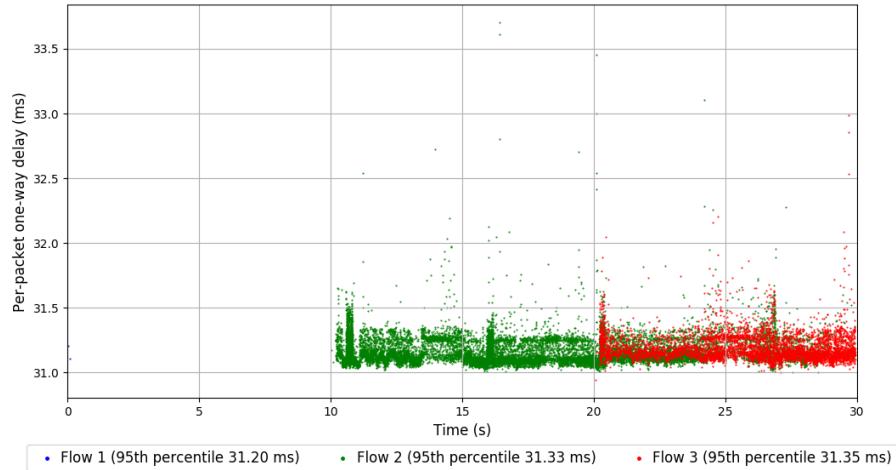
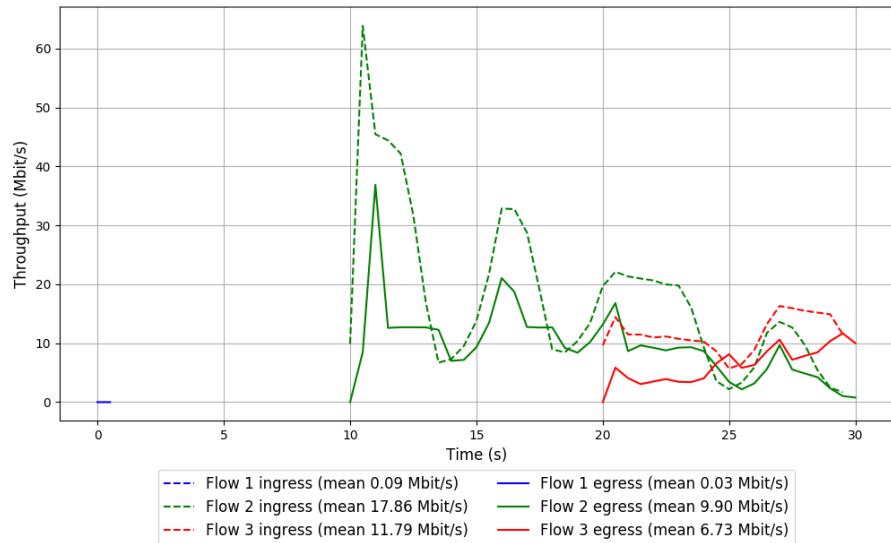


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-27 02:06:51
End at: 2019-03-27 02:07:21
Local clock offset: 0.148 ms
Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2019-03-27 03:22:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 31.336 ms
Loss rate: 44.20%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 31.204 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 31.329 ms
Loss rate: 44.61%
-- Flow 3:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 31.353 ms
Loss rate: 42.93%
```

Run 3: Report of PCC-Expr — Data Link

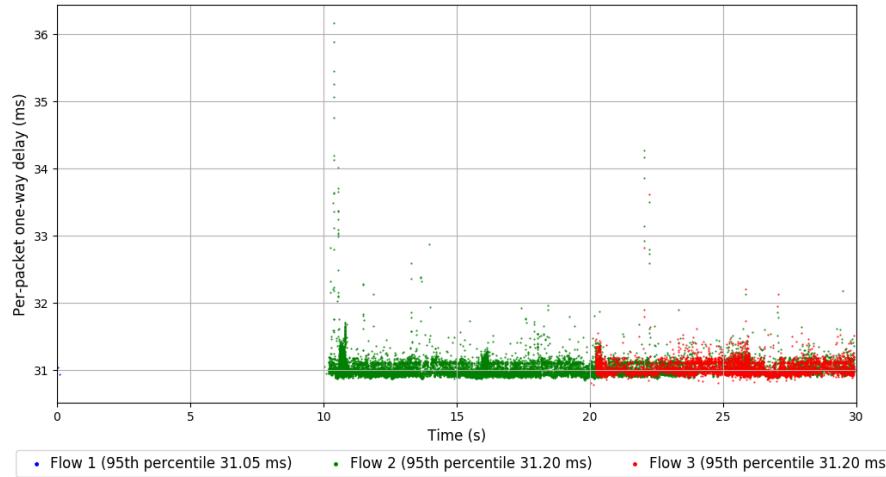
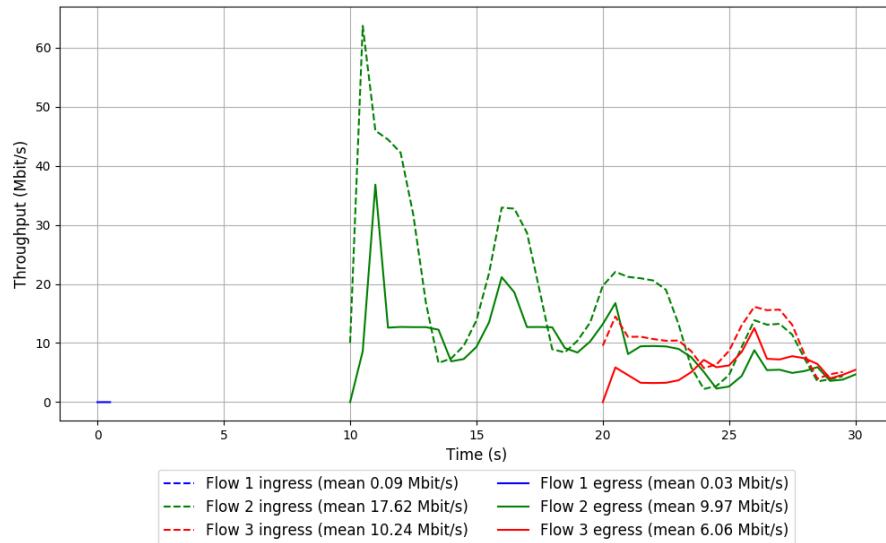


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-27 02:32:50
End at: 2019-03-27 02:33:20
Local clock offset: 0.283 ms
Remote clock offset: 0.879 ms

# Below is generated by plot.py at 2019-03-27 03:22:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 31.203 ms
Loss rate: 42.83%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 31.047 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.97 Mbit/s
95th percentile per-packet one-way delay: 31.203 ms
Loss rate: 43.40%
-- Flow 3:
Average throughput: 6.06 Mbit/s
95th percentile per-packet one-way delay: 31.205 ms
Loss rate: 40.87%
```

Run 4: Report of PCC-Expr — Data Link

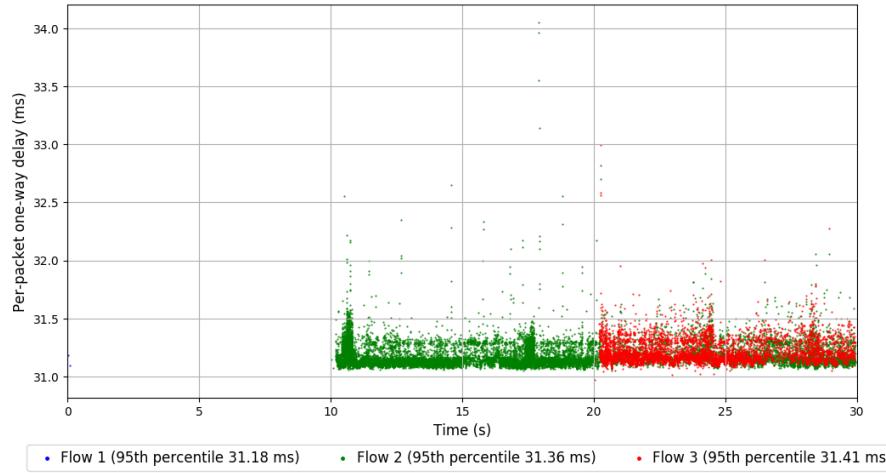
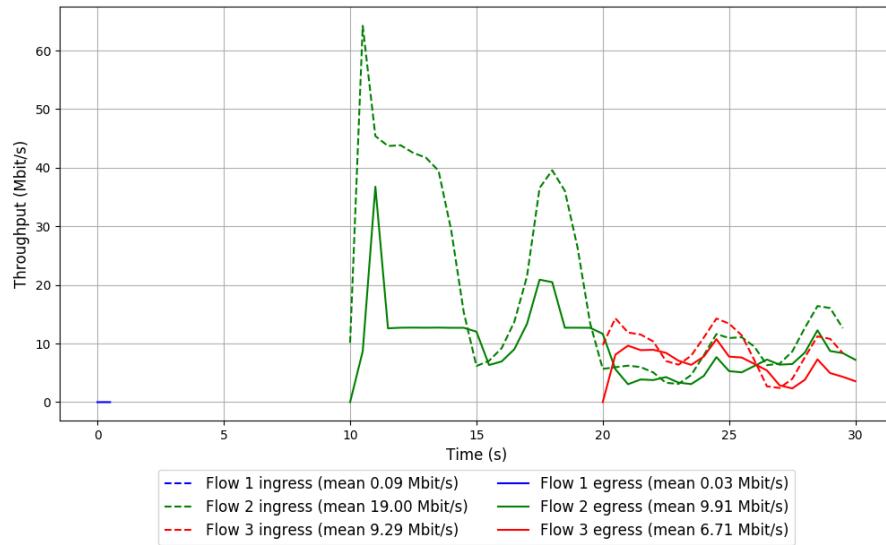


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-27 02:58:09
End at: 2019-03-27 02:58:39
Local clock offset: 0.498 ms
Remote clock offset: 1.849 ms

# Below is generated by plot.py at 2019-03-27 03:22:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 31.374 ms
Loss rate: 43.95%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 31.184 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.91 Mbit/s
95th percentile per-packet one-way delay: 31.356 ms
Loss rate: 47.86%
-- Flow 3:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 31.411 ms
Loss rate: 27.86%
```

Run 5: Report of PCC-Expr — Data Link

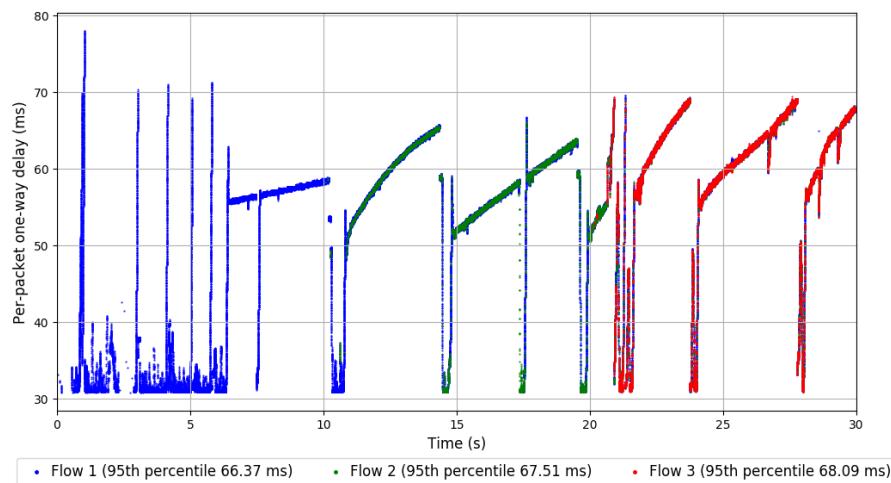
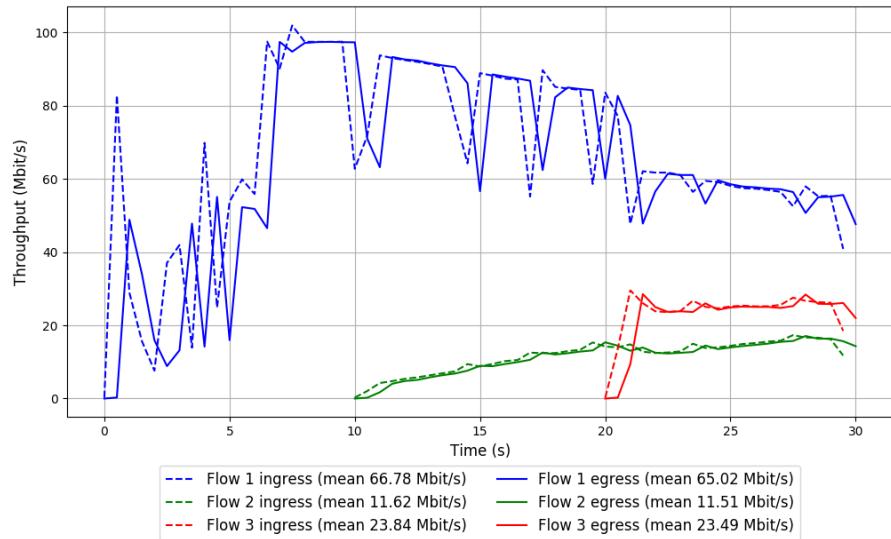


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-03-27 01:22:41
End at: 2019-03-27 01:23:11
Local clock offset: 0.196 ms
Remote clock offset: -1.851 ms

# Below is generated by plot.py at 2019-03-27 03:22:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.40 Mbit/s
95th percentile per-packet one-way delay: 66.881 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 65.02 Mbit/s
95th percentile per-packet one-way delay: 66.371 ms
Loss rate: 2.51%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 67.514 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 68.094 ms
Loss rate: 1.30%
```

Run 1: Report of QUIC Cubic — Data Link

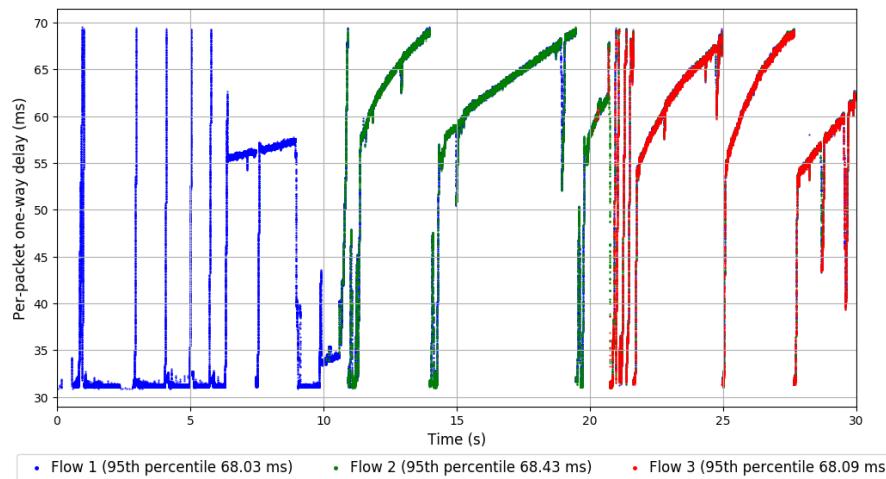
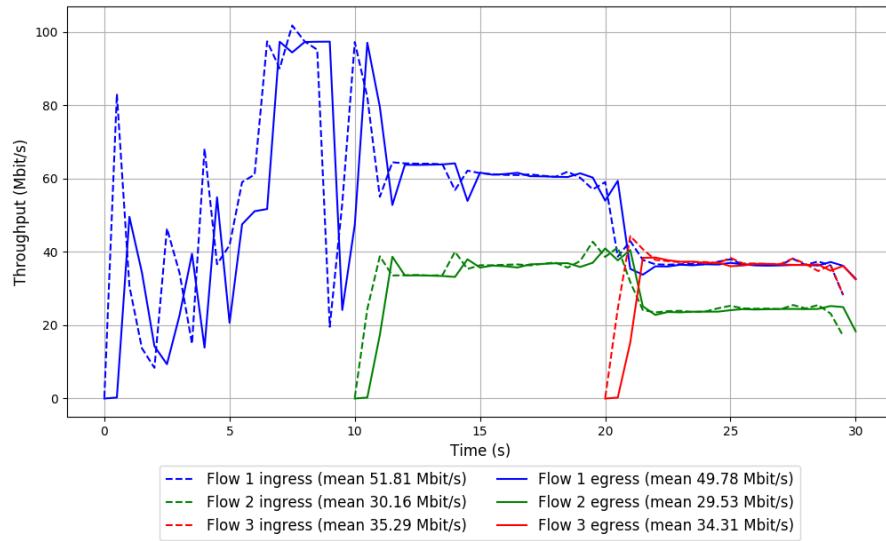


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-27 01:48:22
End at: 2019-03-27 01:48:52
Local clock offset: 0.343 ms
Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2019-03-27 03:22:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.71 Mbit/s
95th percentile per-packet one-way delay: 68.120 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 49.78 Mbit/s
95th percentile per-packet one-way delay: 68.029 ms
Loss rate: 3.80%
-- Flow 2:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 68.430 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 34.31 Mbit/s
95th percentile per-packet one-way delay: 68.087 ms
Loss rate: 2.76%
```

Run 2: Report of QUIC Cubic — Data Link

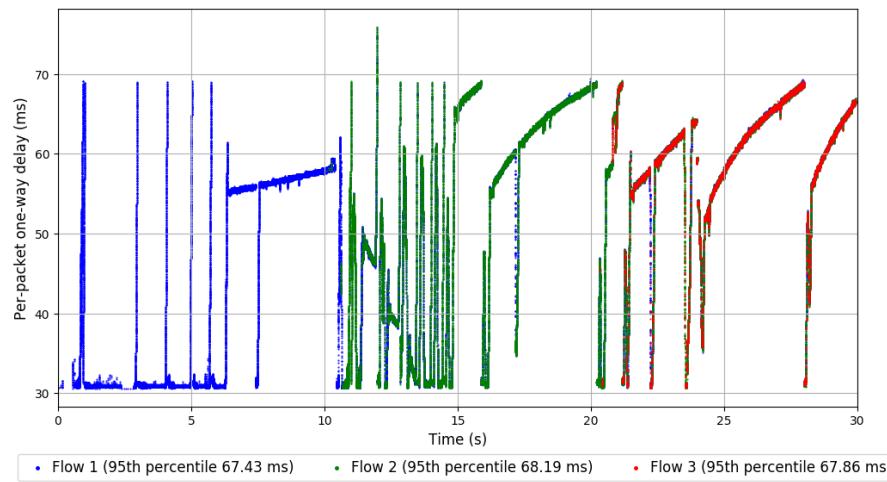
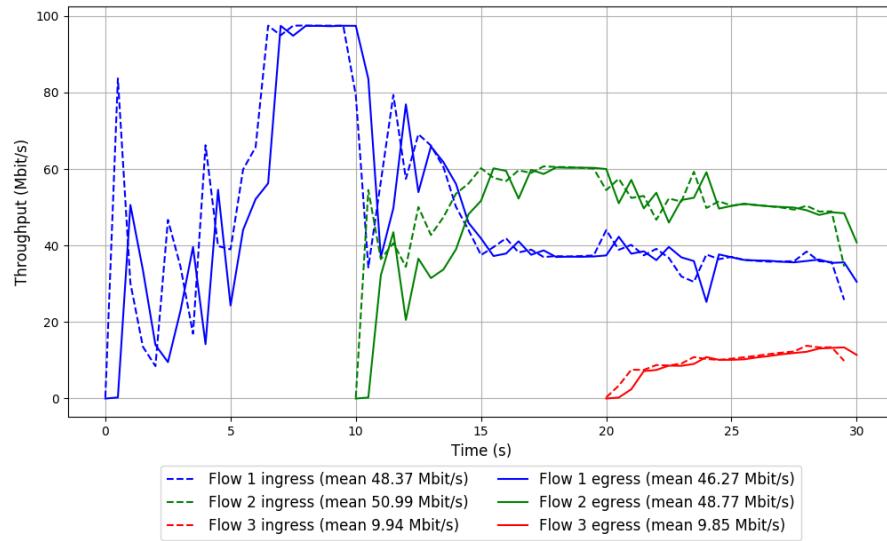


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-27 02:13:59
End at: 2019-03-27 02:14:29
Local clock offset: 0.061 ms
Remote clock offset: 0.15 ms

# Below is generated by plot.py at 2019-03-27 03:22:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.90 Mbit/s
95th percentile per-packet one-way delay: 67.897 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 67.428 ms
Loss rate: 4.23%
-- Flow 2:
Average throughput: 48.77 Mbit/s
95th percentile per-packet one-way delay: 68.185 ms
Loss rate: 4.31%
-- Flow 3:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 67.865 ms
Loss rate: 0.90%
```

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

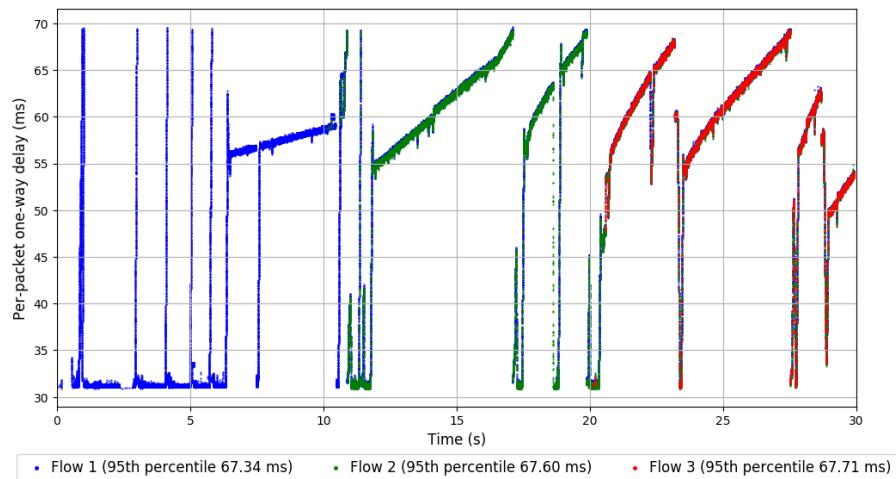
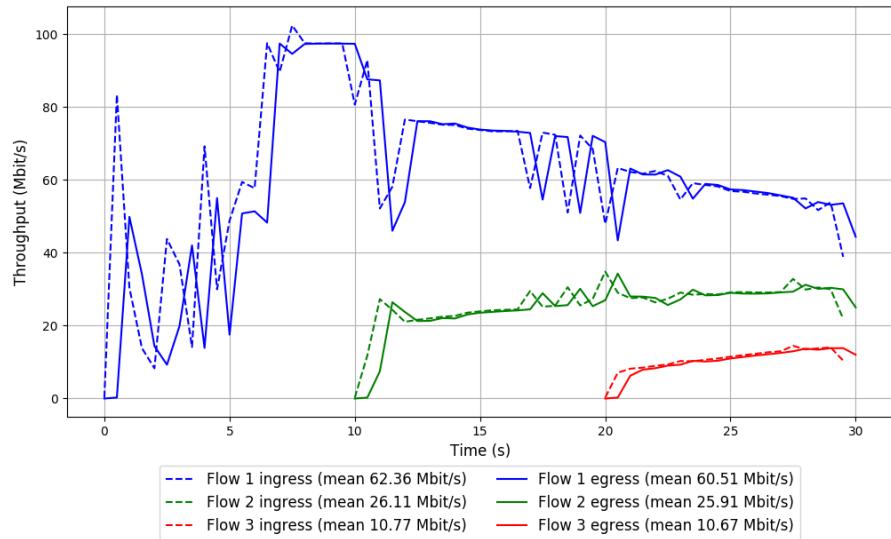


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-27 02:39:55
End at: 2019-03-27 02:40:25
Local clock offset: 0.396 ms
Remote clock offset: 1.231 ms

# Below is generated by plot.py at 2019-03-27 03:23:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.23 Mbit/s
95th percentile per-packet one-way delay: 67.402 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 60.51 Mbit/s
95th percentile per-packet one-way delay: 67.342 ms
Loss rate: 2.89%
-- Flow 2:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 67.598 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 10.67 Mbit/s
95th percentile per-packet one-way delay: 67.713 ms
Loss rate: 0.68%
```

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

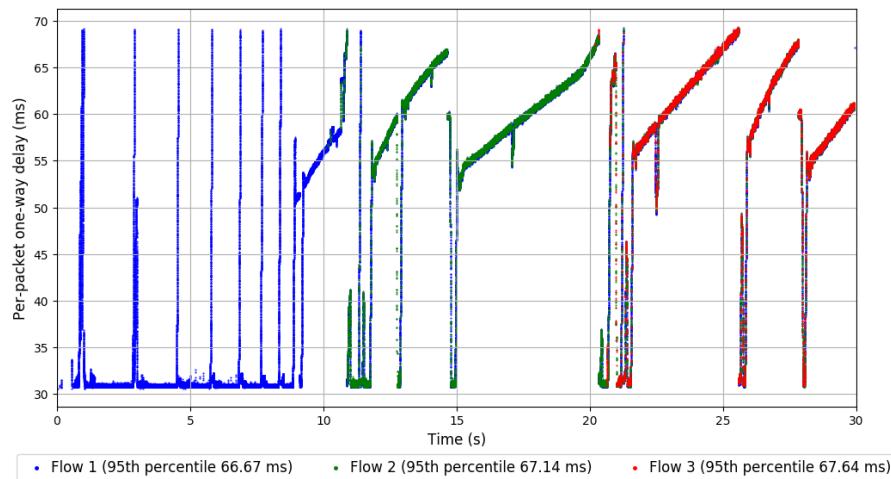
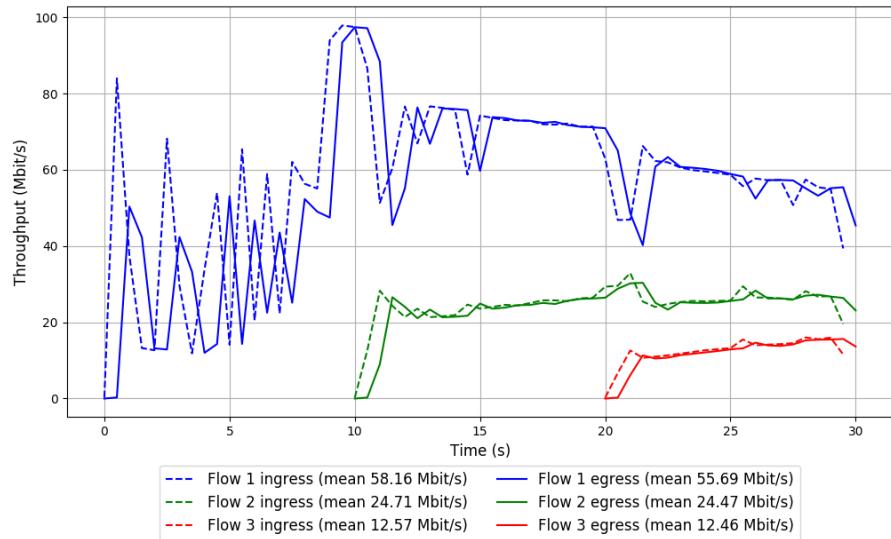


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-27 03:05:15
End at: 2019-03-27 03:05:45
Local clock offset: 0.568 ms
Remote clock offset: 1.723 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.03 Mbit/s
95th percentile per-packet one-way delay: 66.802 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 55.69 Mbit/s
95th percentile per-packet one-way delay: 66.670 ms
Loss rate: 4.14%
-- Flow 2:
Average throughput: 24.47 Mbit/s
95th percentile per-packet one-way delay: 67.143 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 12.46 Mbit/s
95th percentile per-packet one-way delay: 67.637 ms
Loss rate: 0.89%
```

## Run 5: Report of QUIC Cubic — Data Link

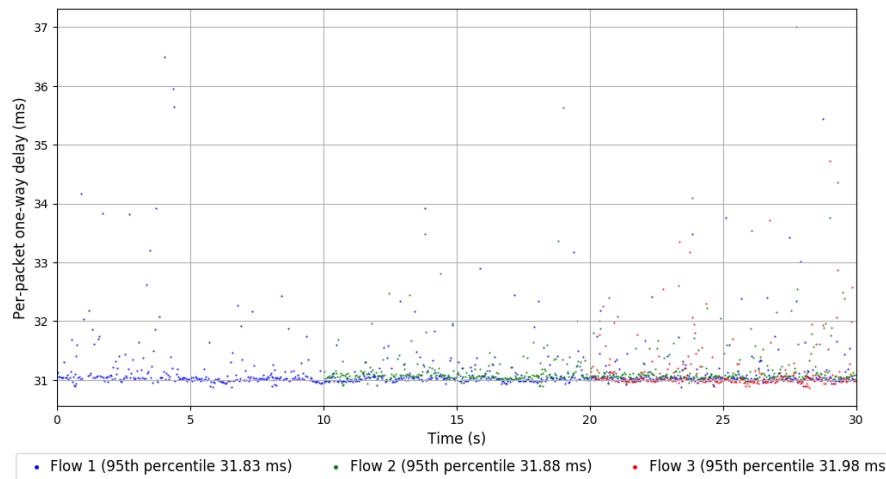
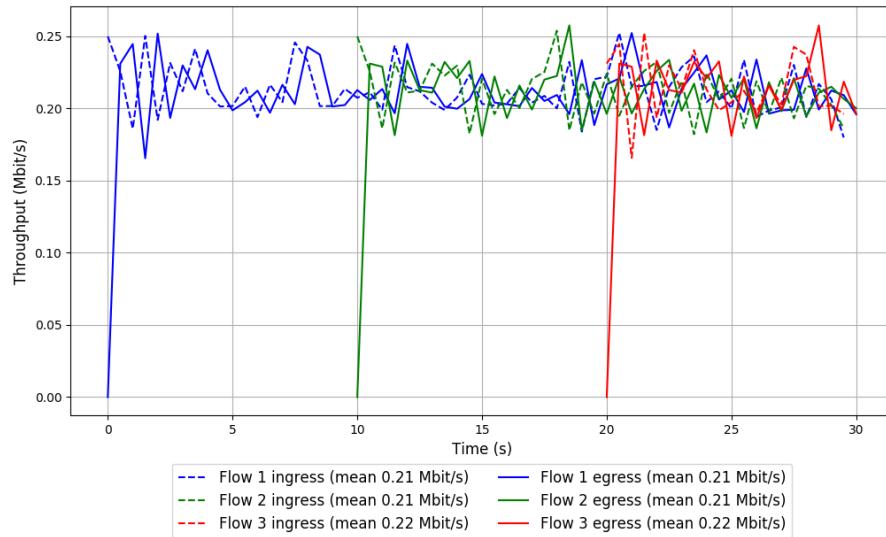


```
Run 1: Statistics of SCReAM

Start at: 2019-03-27 01:19:07
End at: 2019-03-27 01:19:37
Local clock offset: 0.12 ms
Remote clock offset: -2.028 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.834 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.884 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.977 ms
Loss rate: 0.00%
```

## Run 1: Report of SCReAM — Data Link

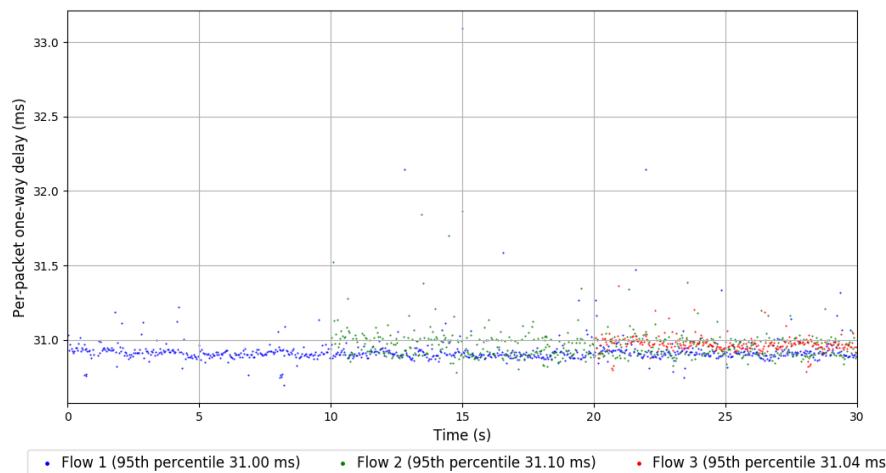
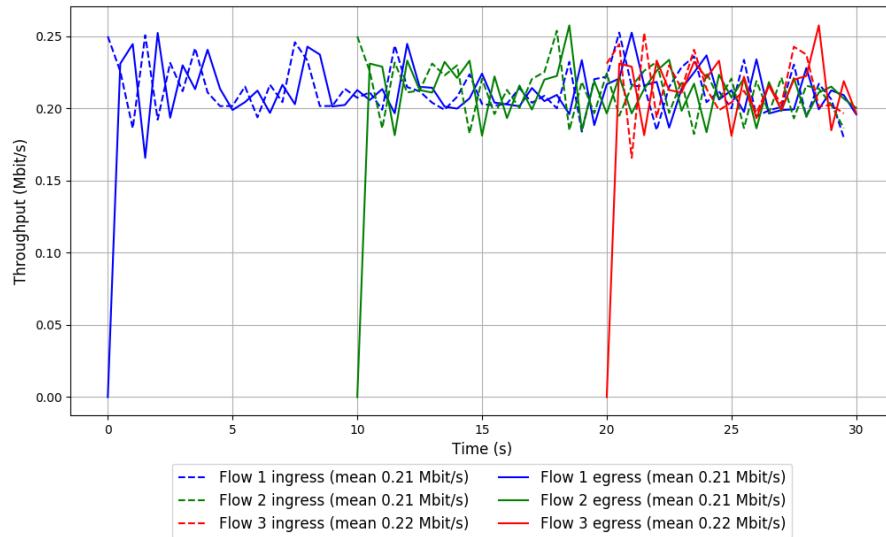


Run 2: Statistics of SCReAM

```
Start at: 2019-03-27 01:44:51
End at: 2019-03-27 01:45:21
Local clock offset: 0.364 ms
Remote clock offset: -0.997 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.003 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.097 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.040 ms
Loss rate: 0.00%
```

## Run 2: Report of SCReAM — Data Link

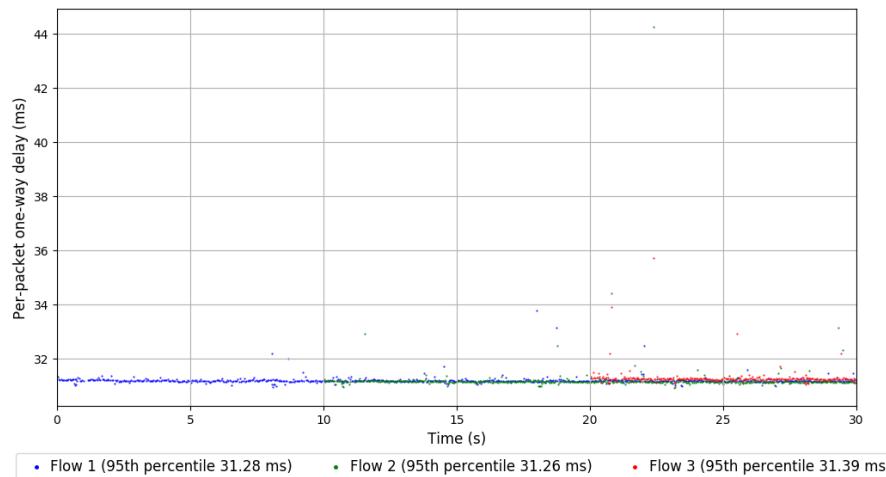
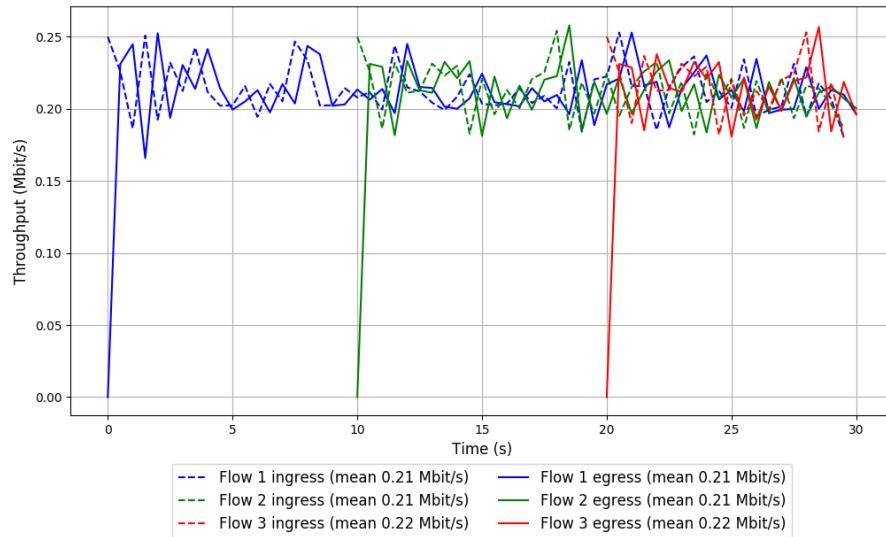


Run 3: Statistics of SCReAM

```
Start at: 2019-03-27 02:10:27
End at: 2019-03-27 02:10:57
Local clock offset: 0.122 ms
Remote clock offset: 0.273 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.282 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.260 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.389 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

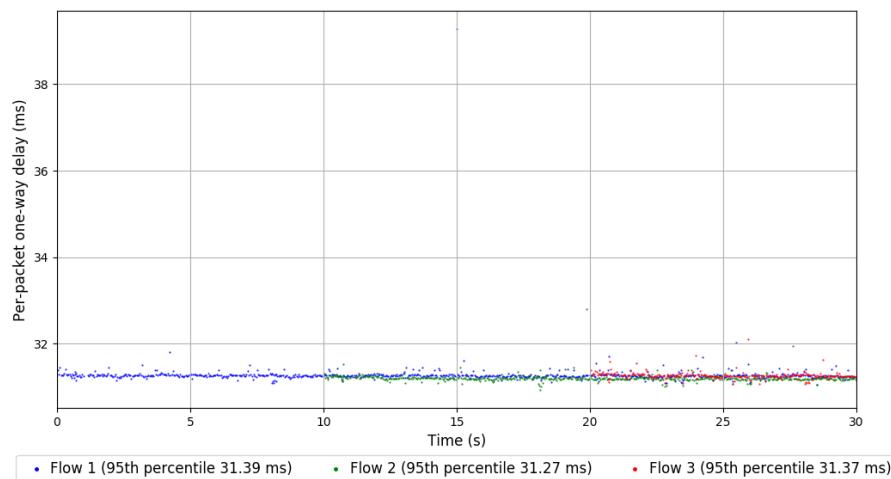
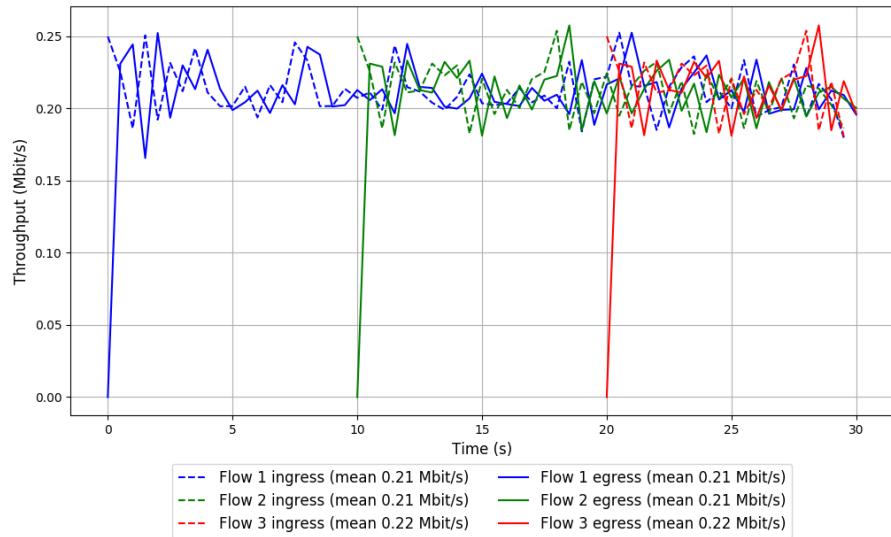


Run 4: Statistics of SCReAM

```
Start at: 2019-03-27 02:36:24
End at: 2019-03-27 02:36:54
Local clock offset: 0.351 ms
Remote clock offset: 1.146 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.358 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.274 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.369 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

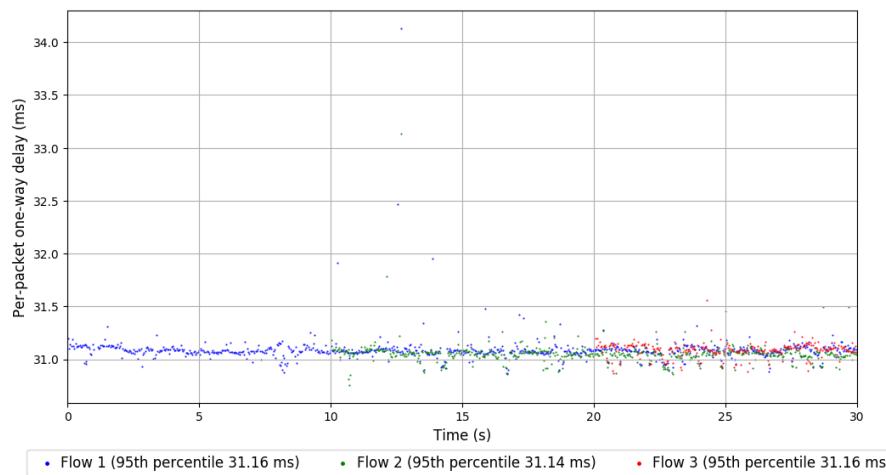
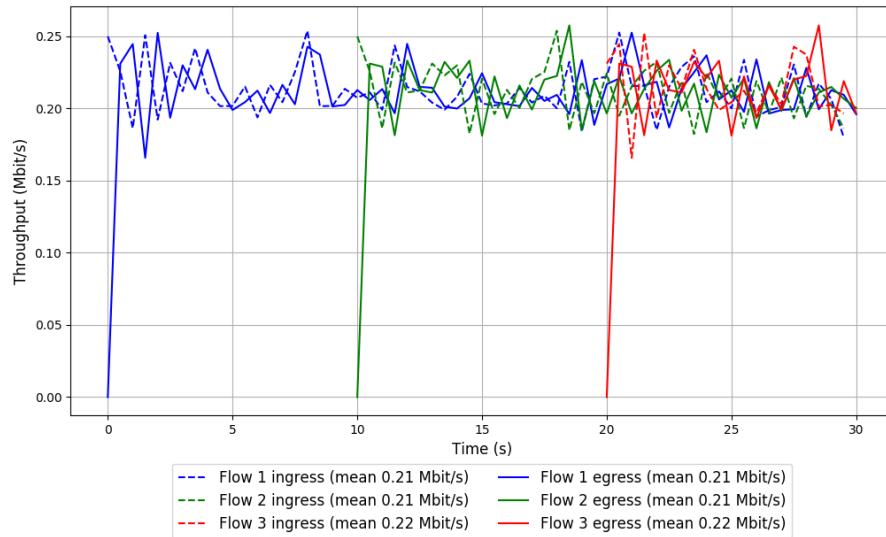


Run 5: Statistics of SCReAM

```
Start at: 2019-03-27 03:01:43
End at: 2019-03-27 03:02:13
Local clock offset: 0.539 ms
Remote clock offset: 1.878 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.158 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.135 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.165 ms
Loss rate: 0.00%
```

## Run 5: Report of SCReAM — Data Link

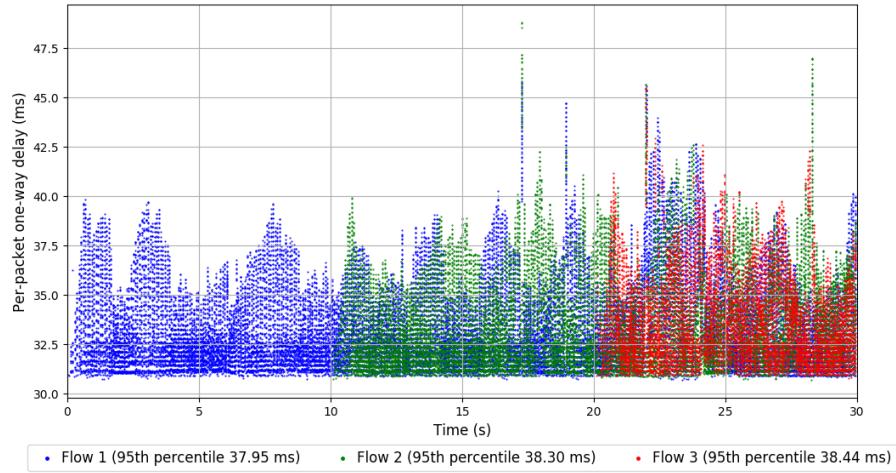
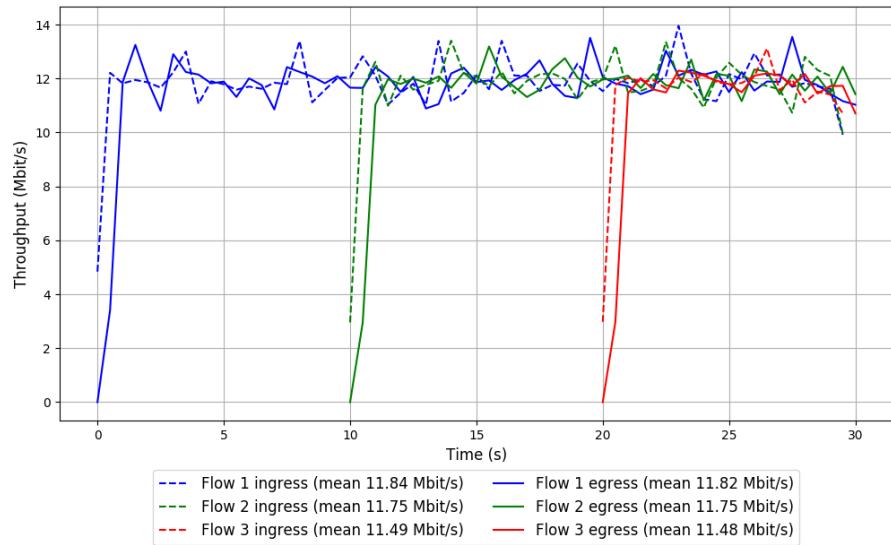


Run 1: Statistics of Sprout

```
Start at: 2019-03-27 01:04:40
End at: 2019-03-27 01:05:10
Local clock offset: 0.11 ms
Remote clock offset: -2.801 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.43 Mbit/s
95th percentile per-packet one-way delay: 38.146 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 37.948 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 38.299 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 38.439 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

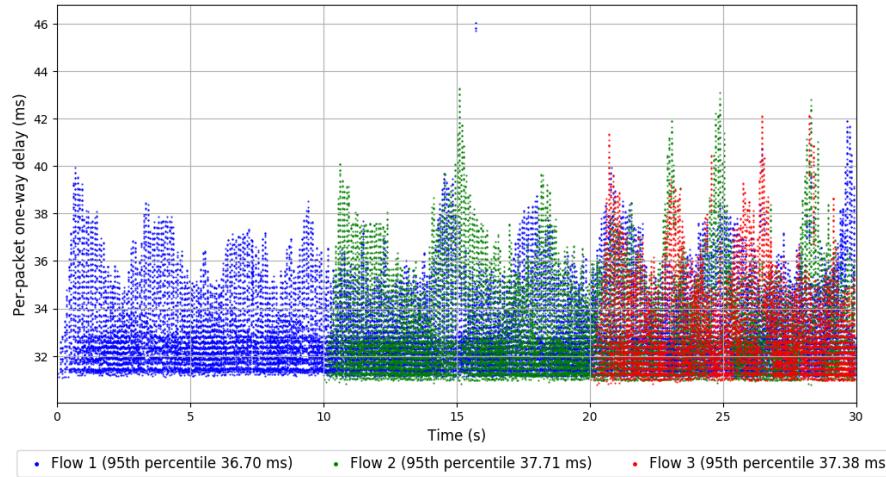
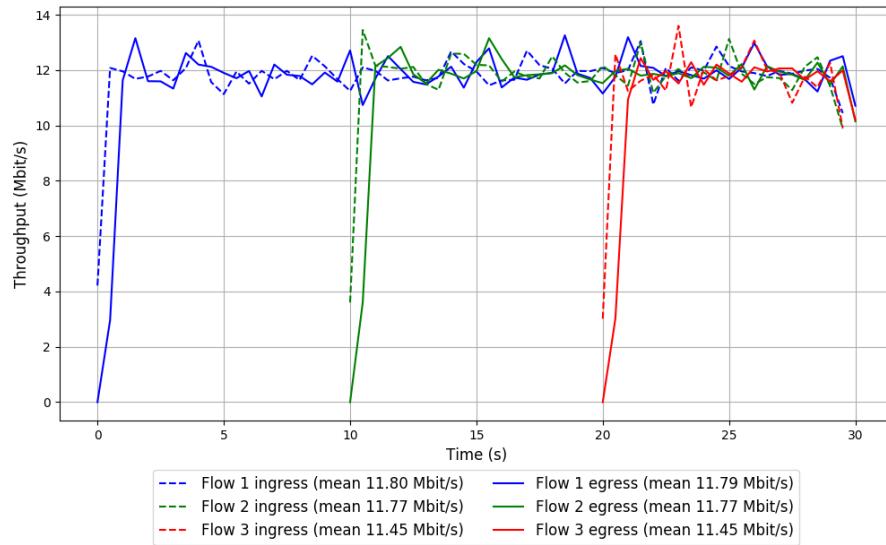


Run 2: Statistics of Sprout

```
Start at: 2019-03-27 01:30:18
End at: 2019-03-27 01:30:48
Local clock offset: 0.275 ms
Remote clock offset: -1.478 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.40 Mbit/s
95th percentile per-packet one-way delay: 37.144 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 36.704 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 37.708 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 37.383 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

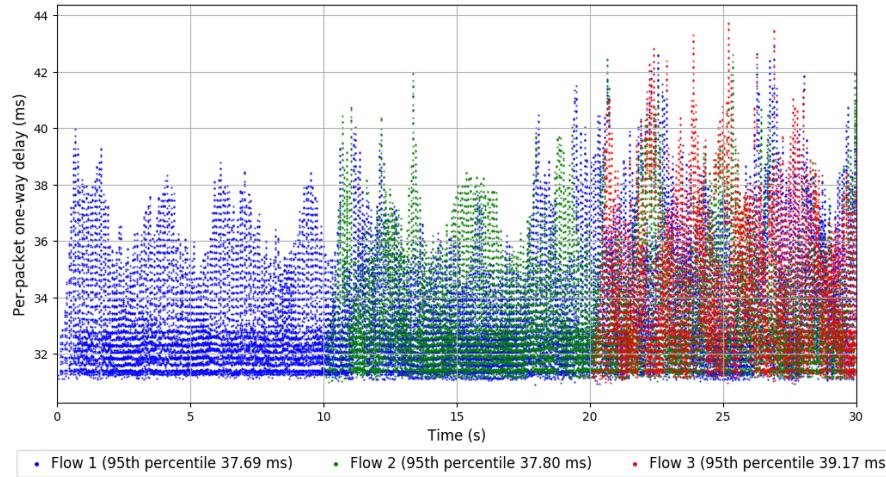
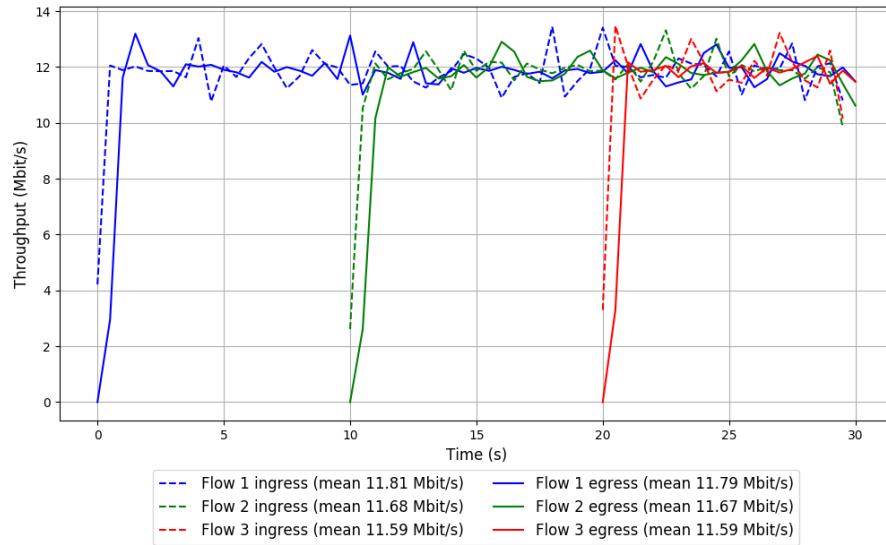


Run 3: Statistics of Sprout

```
Start at: 2019-03-27 01:55:41
End at: 2019-03-27 01:56:11
Local clock offset: 0.245 ms
Remote clock offset: -0.308 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.39 Mbit/s
95th percentile per-packet one-way delay: 38.019 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 37.691 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 37.799 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 39.172 ms
Loss rate: 0.00%
```

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

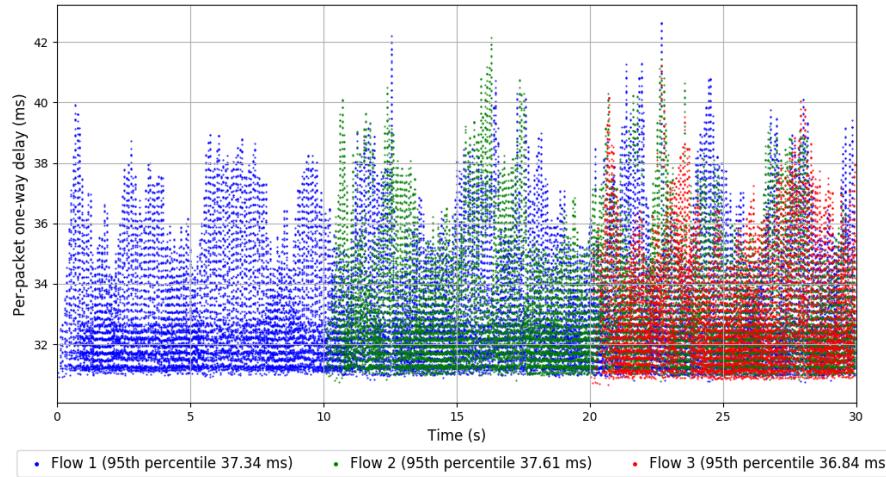
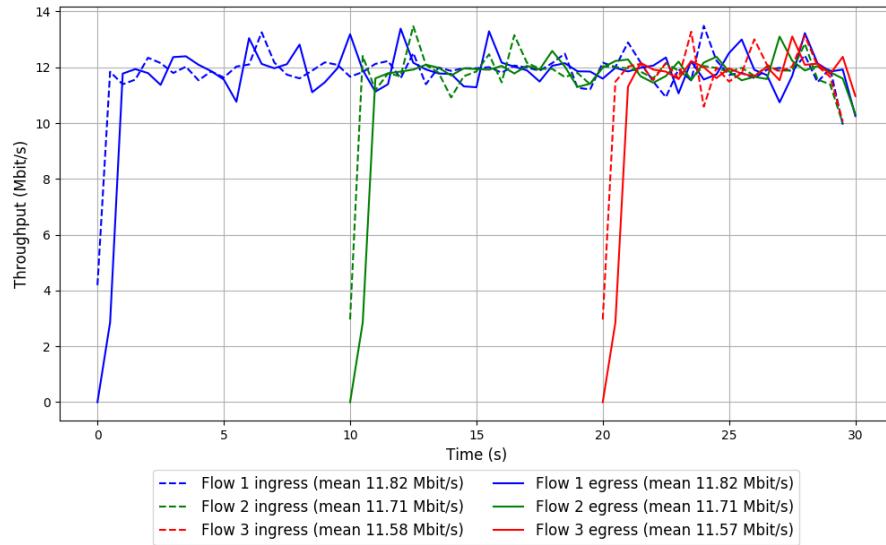


Run 4: Statistics of Sprout

```
Start at: 2019-03-27 02:21:35
End at: 2019-03-27 02:22:05
Local clock offset: 0.074 ms
Remote clock offset: 0.503 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.43 Mbit/s
95th percentile per-packet one-way delay: 37.343 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.82 Mbit/s
95th percentile per-packet one-way delay: 37.335 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 37.614 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 36.836 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

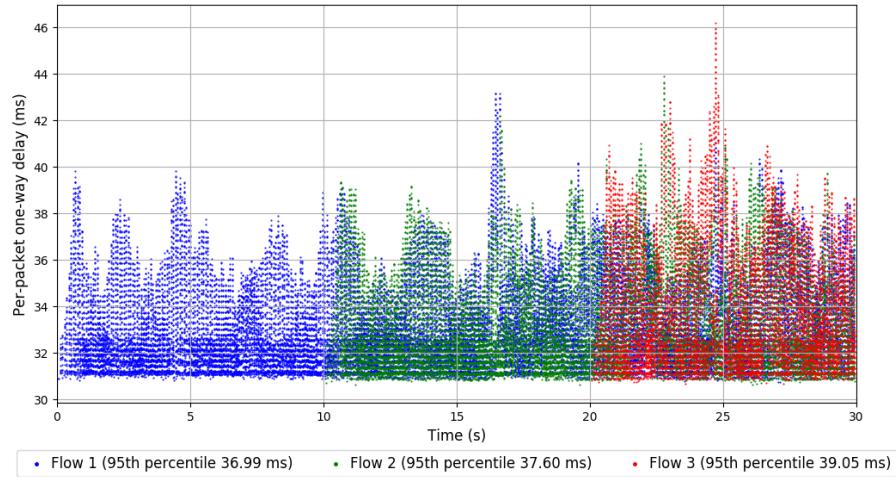
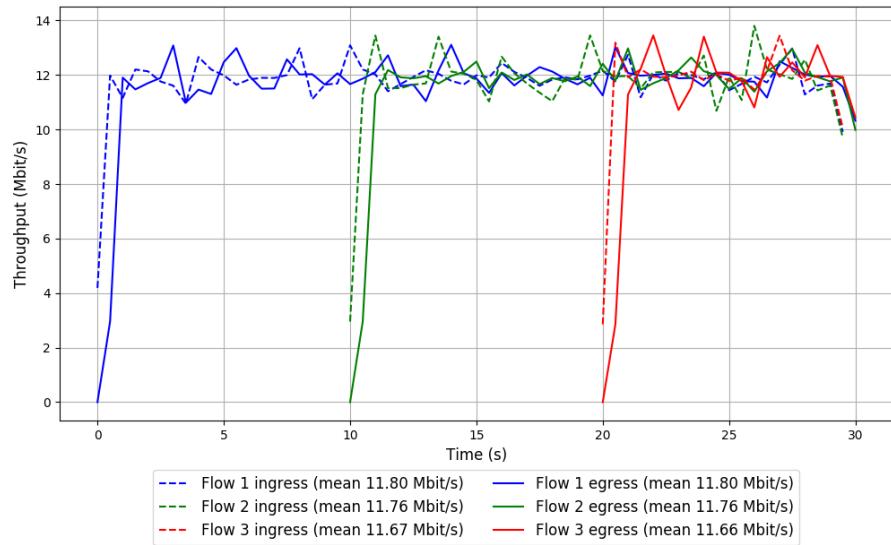


Run 5: Statistics of Sprout

```
Start at: 2019-03-27 02:47:11
End at: 2019-03-27 02:47:41
Local clock offset: 0.5 ms
Remote clock offset: 1.332 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 37.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 36.986 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 37.601 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 39.055 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

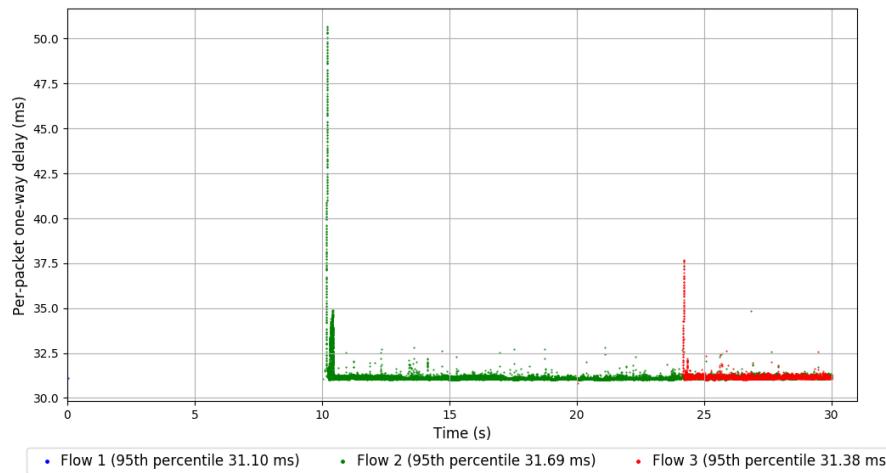
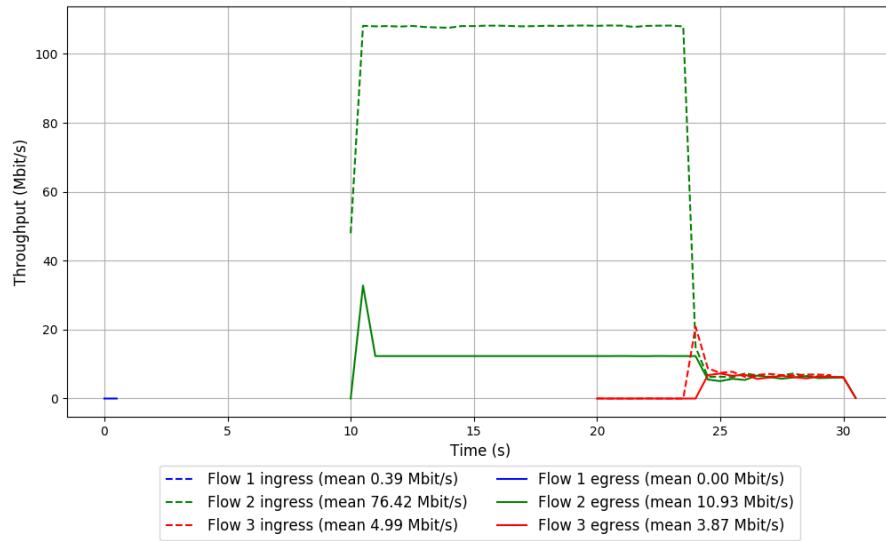


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-27 01:29:06
End at: 2019-03-27 01:29:36
Local clock offset: 0.266 ms
Remote clock offset: -1.593 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 31.578 ms
Loss rate: 83.71%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.097 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 31.686 ms
Loss rate: 85.70%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 31.380 ms
Loss rate: 22.47%
```

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

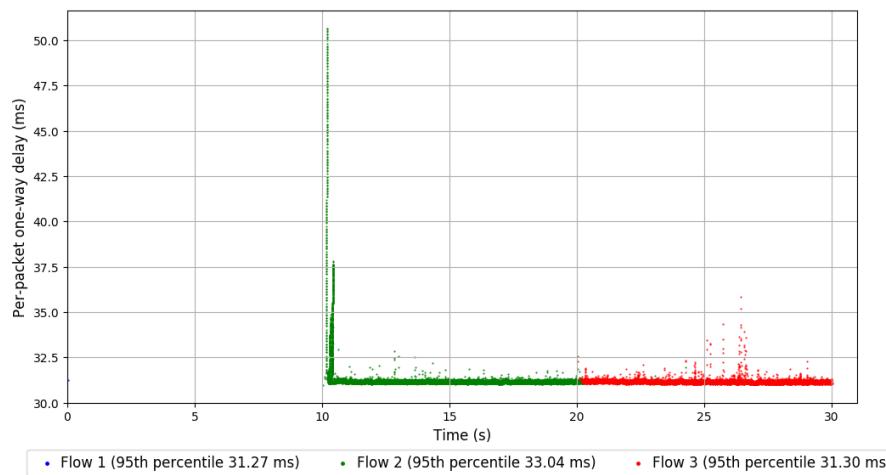
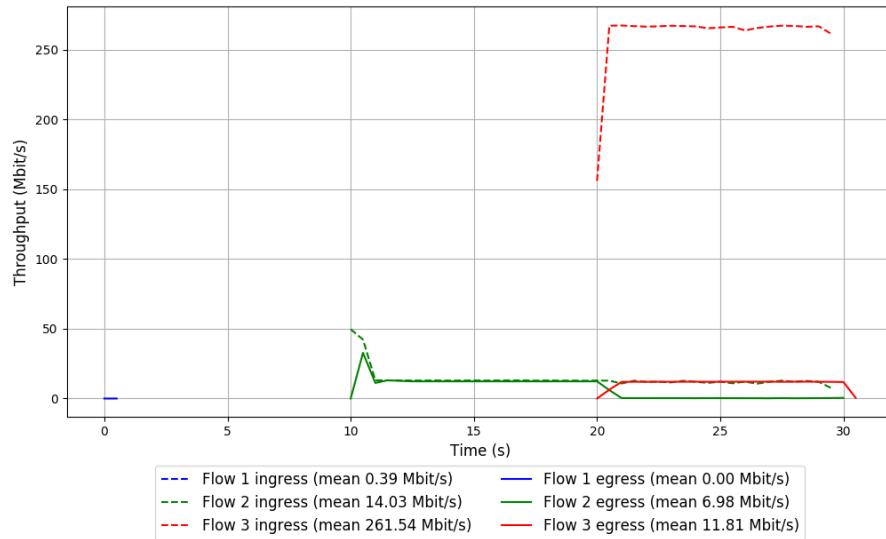


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-27 01:54:31
End at: 2019-03-27 01:55:01
Local clock offset: 0.243 ms
Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 31.557 ms
Loss rate: 91.10%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.267 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 33.043 ms
Loss rate: 50.35%
-- Flow 3:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 31.299 ms
Loss rate: 95.48%
```

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

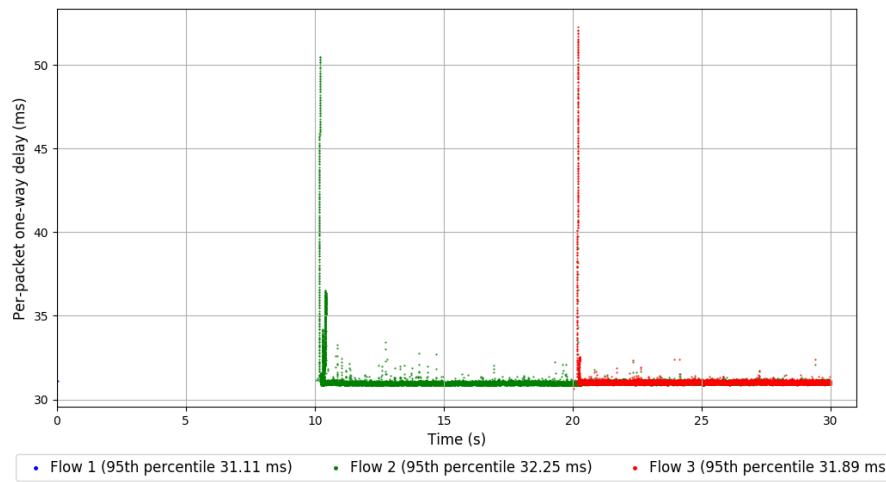
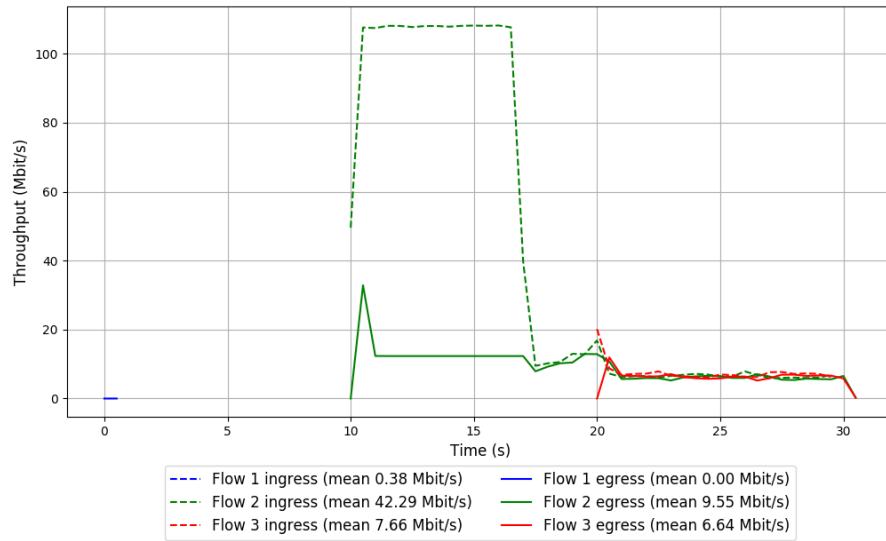


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-27 02:20:25
End at: 2019-03-27 02:20:55
Local clock offset: 0.043 ms
Remote clock offset: 0.443 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 32.144 ms
Loss rate: 72.11%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.107 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 32.251 ms
Loss rate: 77.42%
-- Flow 3:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 31.893 ms
Loss rate: 13.32%
```

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

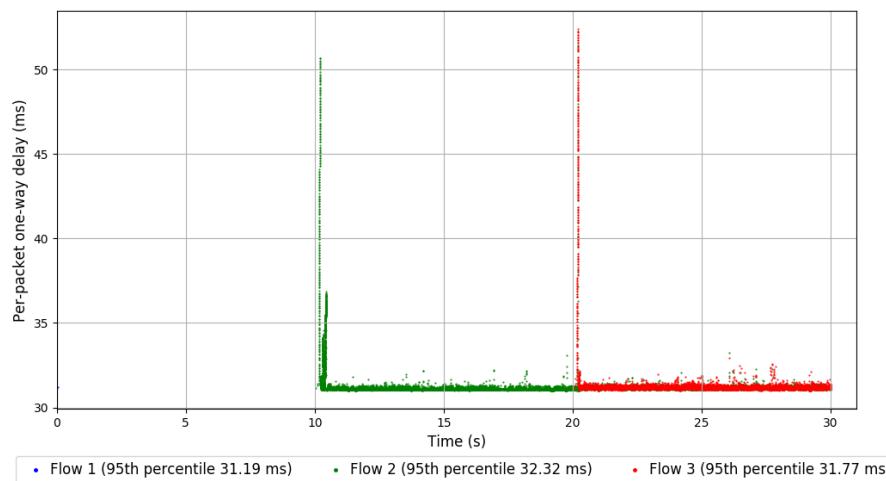
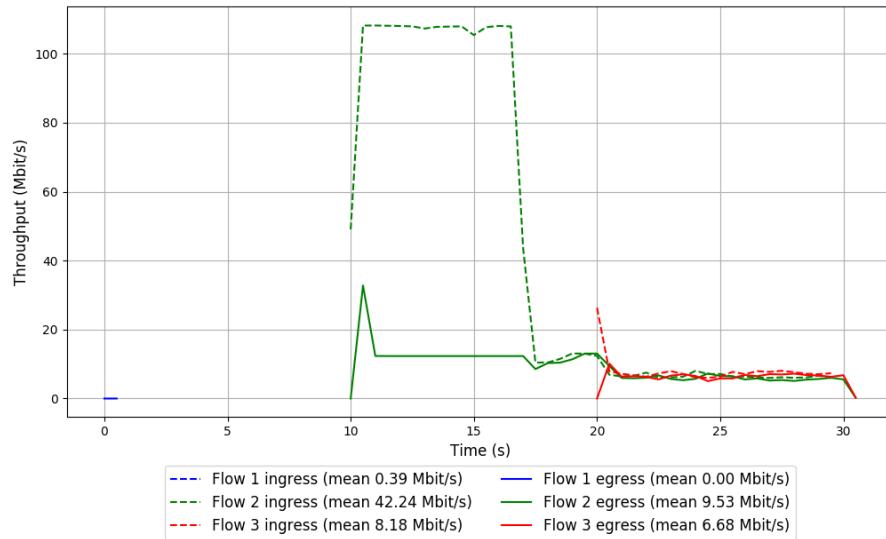


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-27 02:46:01
End at: 2019-03-27 02:46:31
Local clock offset: 0.494 ms
Remote clock offset: 1.474 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 32.164 ms
Loss rate: 72.24%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.189 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 32.323 ms
Loss rate: 77.44%
-- Flow 3:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 31.770 ms
Loss rate: 18.37%
```

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

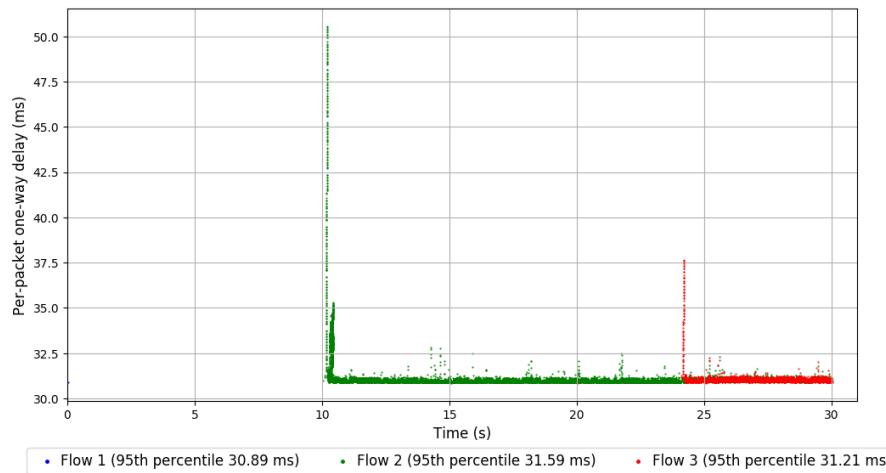
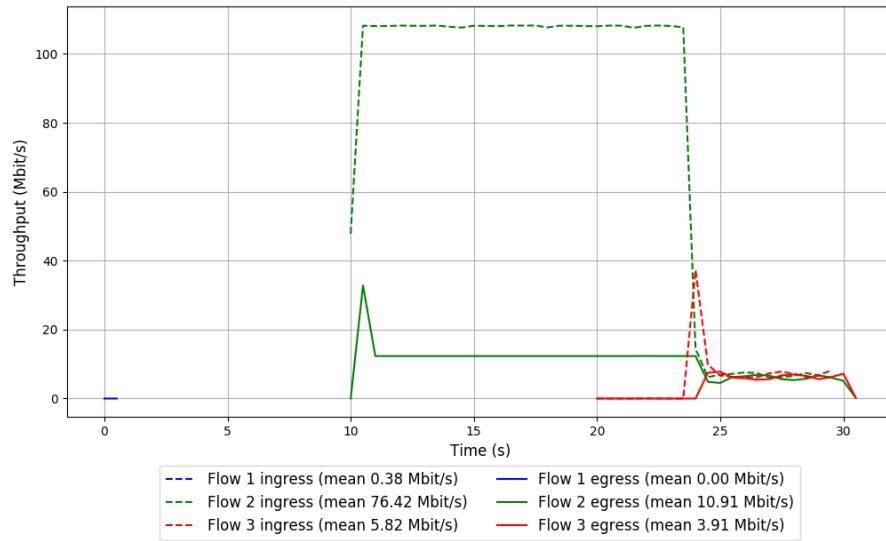


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-27 03:11:29
End at: 2019-03-27 03:11:59
Local clock offset: 0.627 ms
Remote clock offset: 1.725 ms

# Below is generated by plot.py at 2019-03-27 03:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 31.419 ms
Loss rate: 83.79%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 30.887 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 31.591 ms
Loss rate: 85.72%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 31.206 ms
Loss rate: 32.86%
```

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

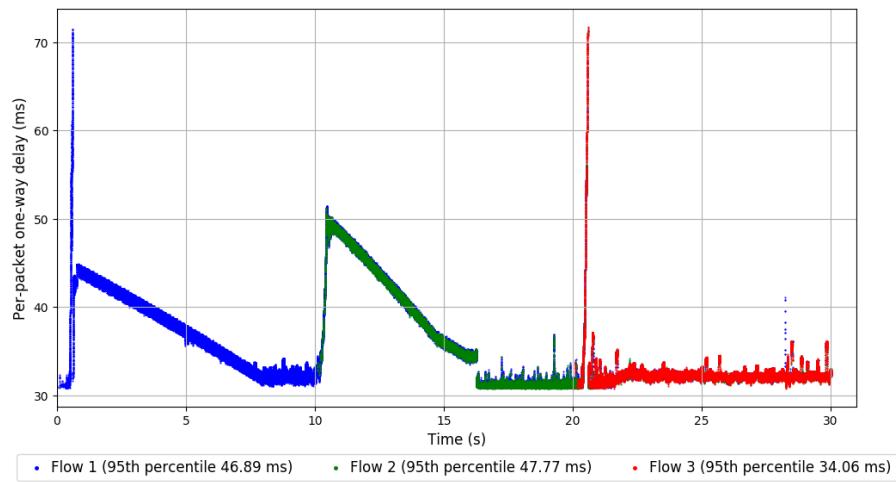
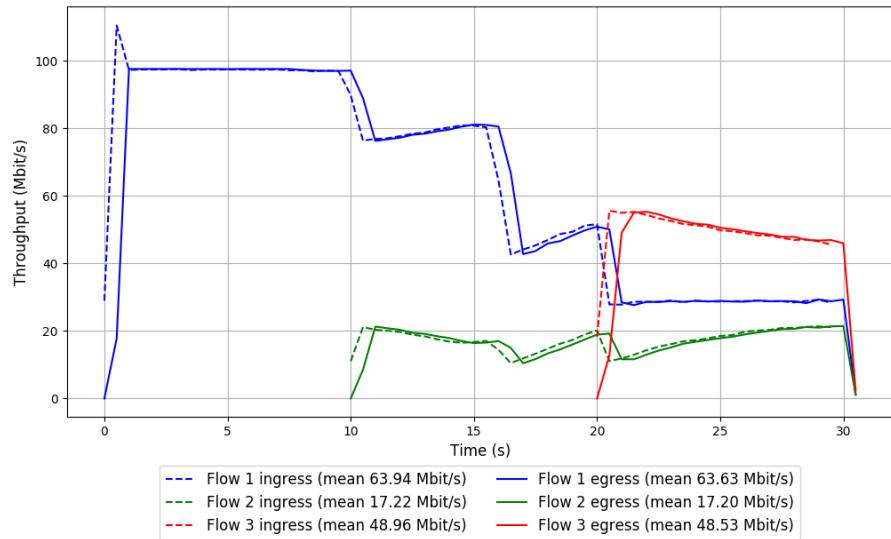


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-27 01:09:29
End at: 2019-03-27 01:09:59
Local clock offset: 0.092 ms
Remote clock offset: -2.587 ms

# Below is generated by plot.py at 2019-03-27 03:23:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 46.481 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 63.63 Mbit/s
95th percentile per-packet one-way delay: 46.888 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 17.20 Mbit/s
95th percentile per-packet one-way delay: 47.775 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 48.53 Mbit/s
95th percentile per-packet one-way delay: 34.060 ms
Loss rate: 0.87%
```

Run 1: Report of TCP Vegas — Data Link

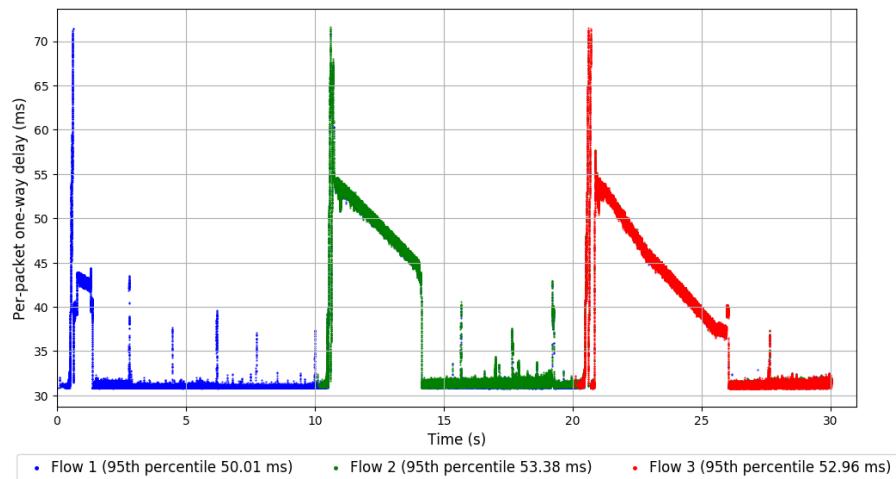
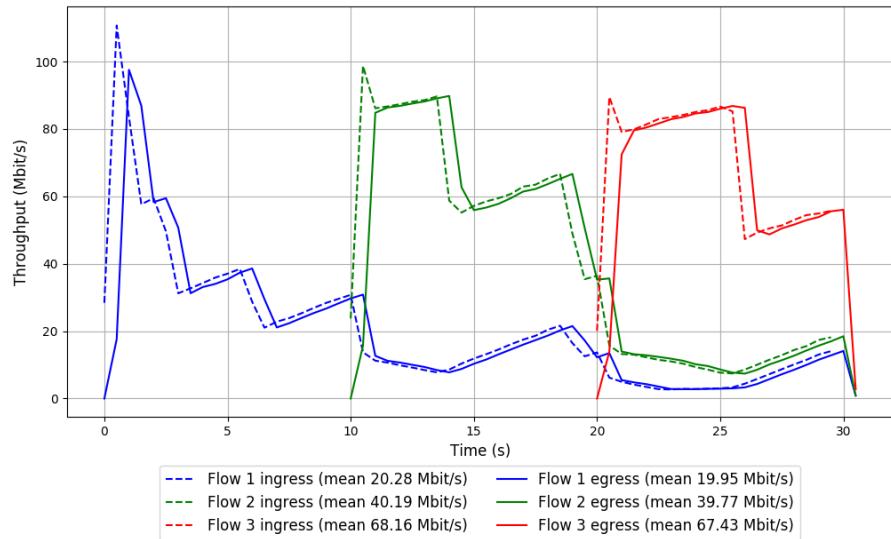


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-27 01:35:13
End at: 2019-03-27 01:35:43
Local clock offset: 0.329 ms
Remote clock offset: -1.419 ms

# Below is generated by plot.py at 2019-03-27 03:23:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.86 Mbit/s
95th percentile per-packet one-way delay: 52.934 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 50.014 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 39.77 Mbit/s
95th percentile per-packet one-way delay: 53.379 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 67.43 Mbit/s
95th percentile per-packet one-way delay: 52.958 ms
Loss rate: 1.06%
```

Run 2: Report of TCP Vegas — Data Link

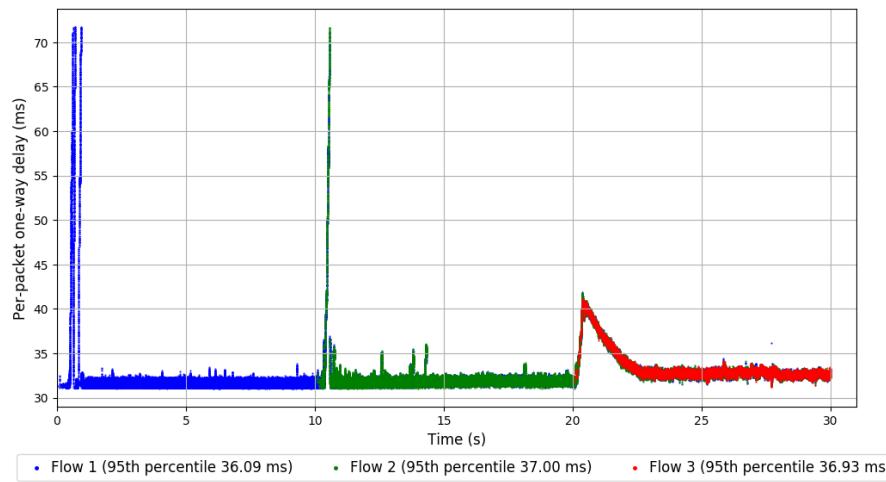
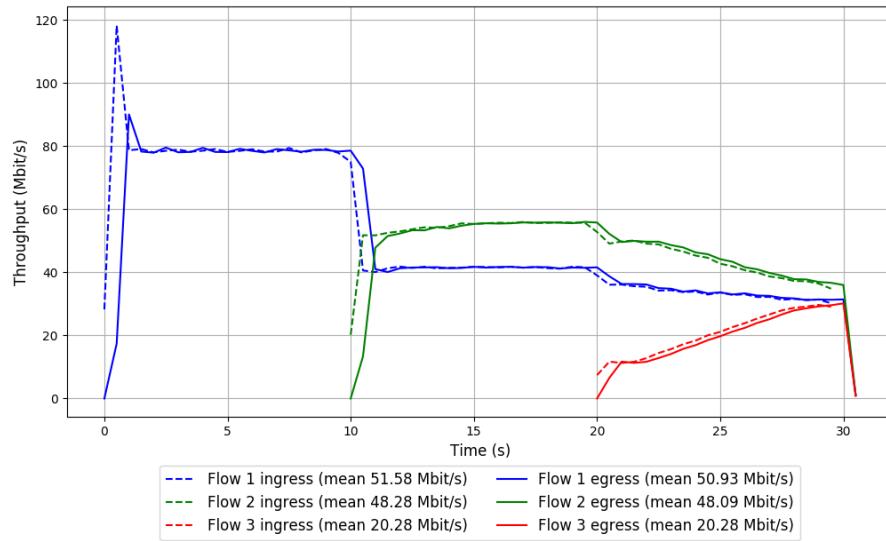


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-27 02:00:36
End at: 2019-03-27 02:01:06
Local clock offset: 0.199 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-03-27 03:24:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.72 Mbit/s
95th percentile per-packet one-way delay: 36.668 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 50.93 Mbit/s
95th percentile per-packet one-way delay: 36.094 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 48.09 Mbit/s
95th percentile per-packet one-way delay: 36.996 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 20.28 Mbit/s
95th percentile per-packet one-way delay: 36.927 ms
Loss rate: 0.00%
```

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

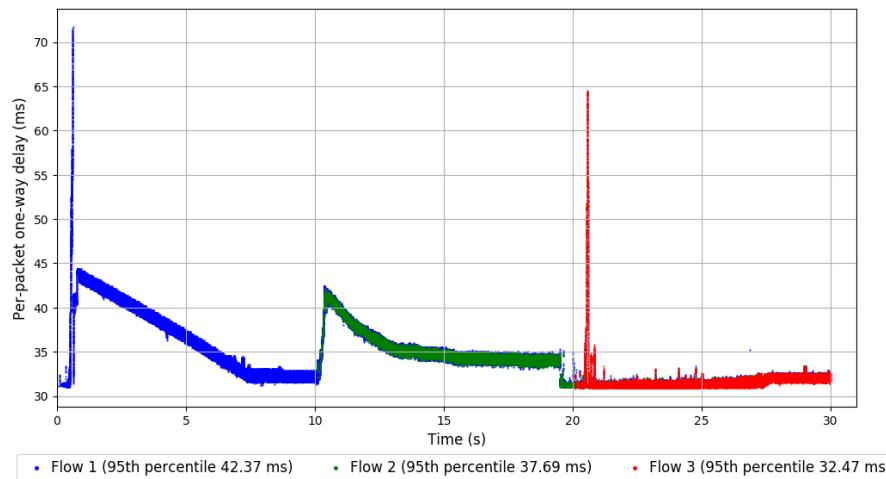
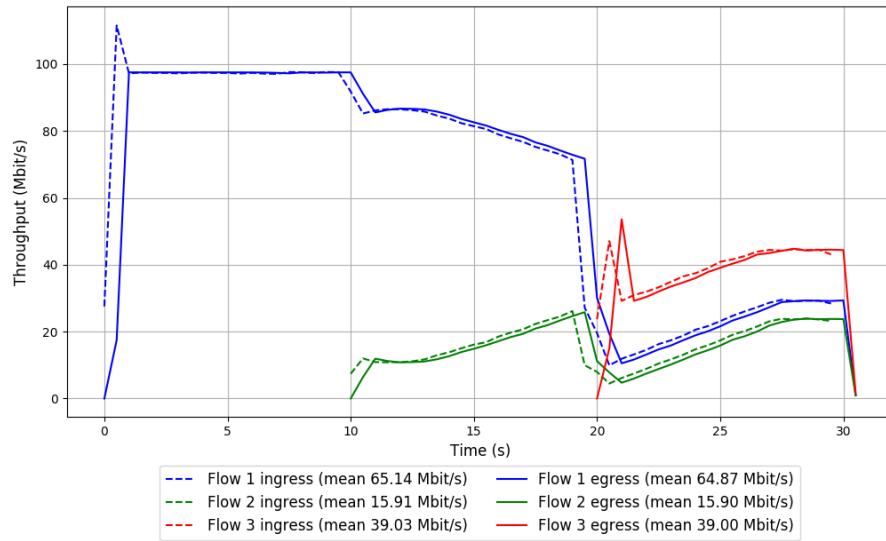


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-27 02:26:33
End at: 2019-03-27 02:27:03
Local clock offset: 0.151 ms
Remote clock offset: 0.765 ms

# Below is generated by plot.py at 2019-03-27 03:24:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 41.885 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 64.87 Mbit/s
95th percentile per-packet one-way delay: 42.372 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 37.689 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 32.473 ms
Loss rate: 0.08%
```

Run 4: Report of TCP Vegas — Data Link

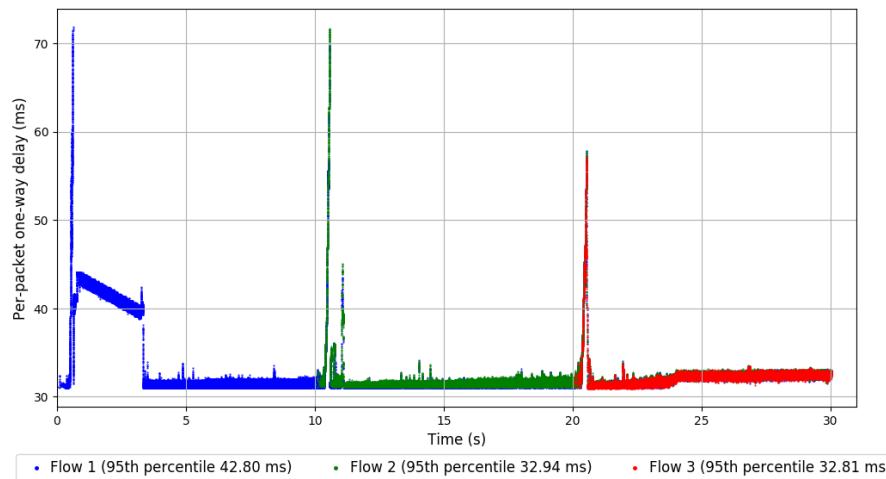
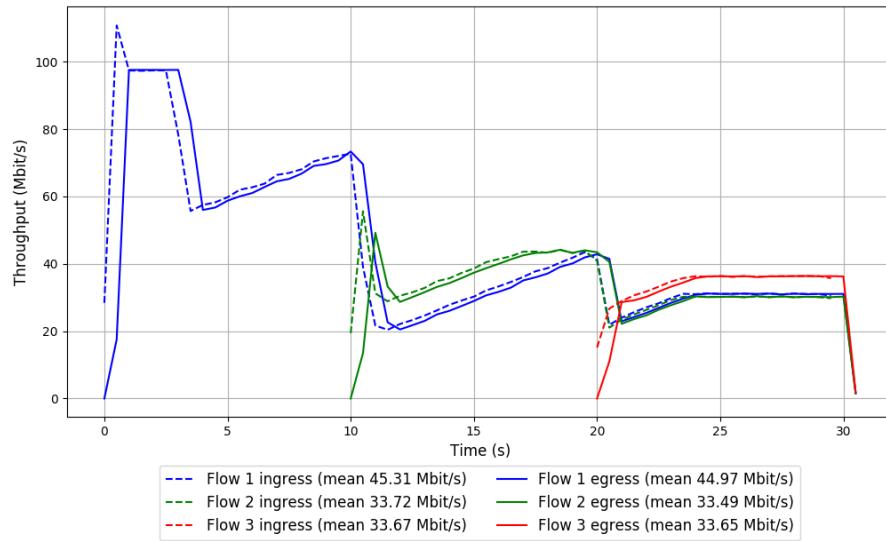


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-27 02:52:01
End at: 2019-03-27 02:52:31
Local clock offset: 0.473 ms
Remote clock offset: 1.685 ms

# Below is generated by plot.py at 2019-03-27 03:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.47 Mbit/s
95th percentile per-packet one-way delay: 42.207 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 42.800 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 32.938 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 33.65 Mbit/s
95th percentile per-packet one-way delay: 32.808 ms
Loss rate: 0.06%
```

Run 5: Report of TCP Vegas — Data Link

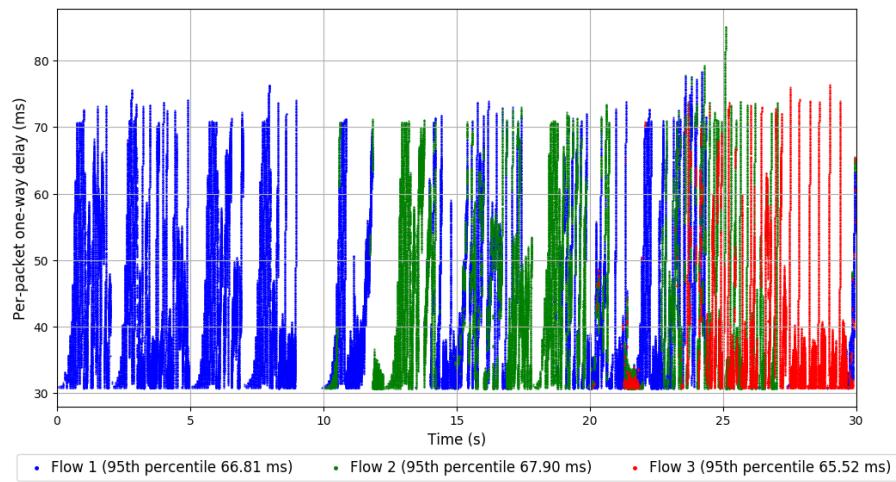
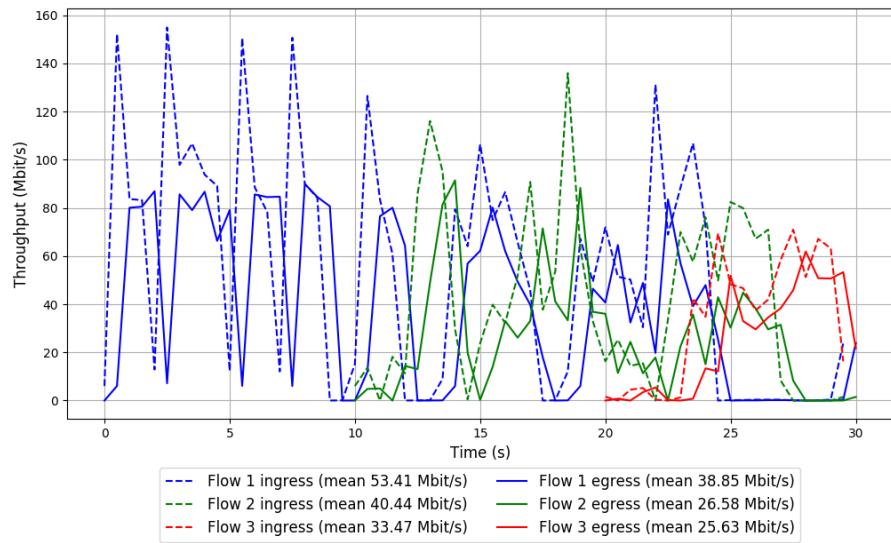


Run 1: Statistics of Verus

```
Start at: 2019-03-27 01:07:01
End at: 2019-03-27 01:07:32
Local clock offset: 0.089 ms
Remote clock offset: -2.723 ms

# Below is generated by plot.py at 2019-03-27 03:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.01 Mbit/s
95th percentile per-packet one-way delay: 67.053 ms
Loss rate: 28.76%
-- Flow 1:
Average throughput: 38.85 Mbit/s
95th percentile per-packet one-way delay: 66.805 ms
Loss rate: 27.19%
-- Flow 2:
Average throughput: 26.58 Mbit/s
95th percentile per-packet one-way delay: 67.902 ms
Loss rate: 34.17%
-- Flow 3:
Average throughput: 25.63 Mbit/s
95th percentile per-packet one-way delay: 65.517 ms
Loss rate: 23.24%
```

Run 1: Report of Verus — Data Link

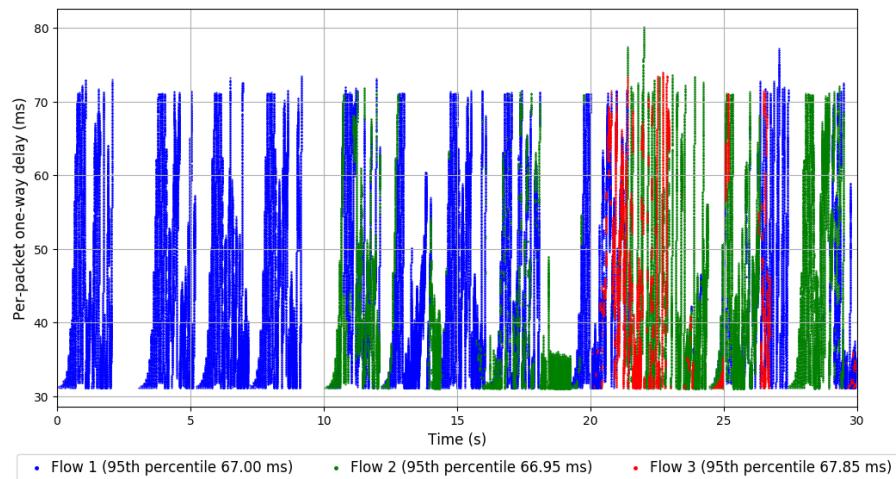
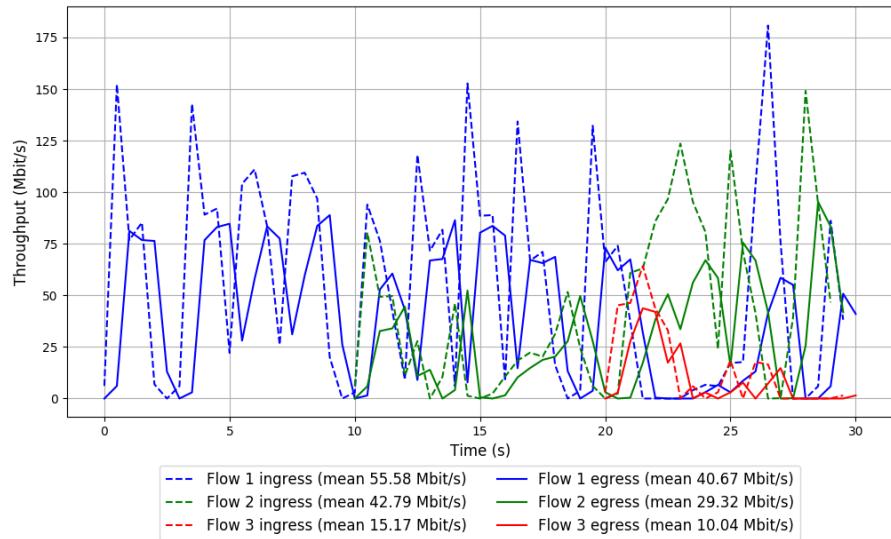


Run 2: Statistics of Verus

```
Start at: 2019-03-27 01:32:44
End at: 2019-03-27 01:33:14
Local clock offset: 0.294 ms
Remote clock offset: -1.32 ms

# Below is generated by plot.py at 2019-03-27 03:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.06 Mbit/s
95th percentile per-packet one-way delay: 67.057 ms
Loss rate: 28.67%
-- Flow 1:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 67.004 ms
Loss rate: 26.82%
-- Flow 2:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 66.953 ms
Loss rate: 31.44%
-- Flow 3:
Average throughput: 10.04 Mbit/s
95th percentile per-packet one-way delay: 67.854 ms
Loss rate: 33.81%
```

## Run 2: Report of Verus — Data Link

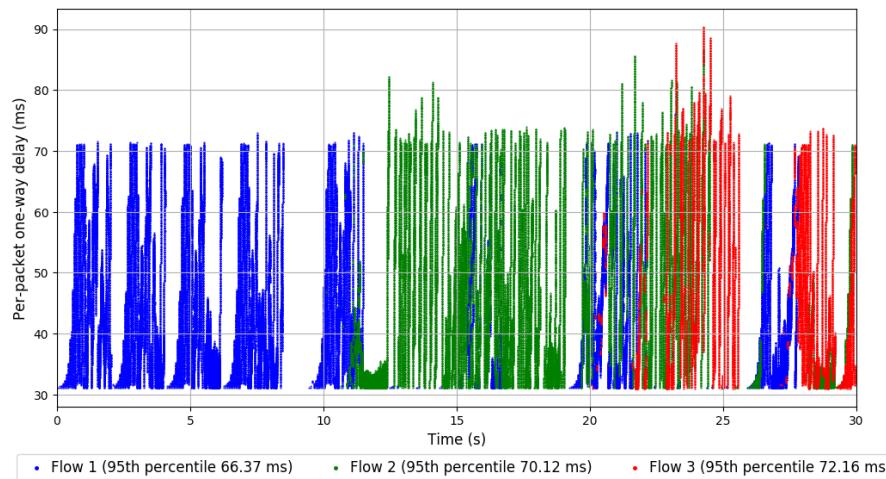
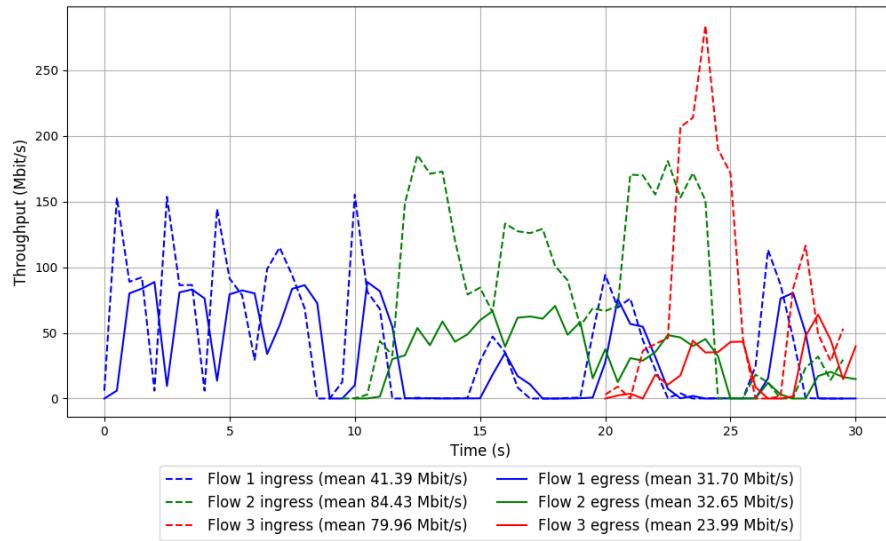


Run 3: Statistics of Verus

```
Start at: 2019-03-27 01:58:04
End at: 2019-03-27 01:58:34
Local clock offset: 0.21 ms
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-03-27 03:24:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.22 Mbit/s
95th percentile per-packet one-way delay: 68.775 ms
Loss rate: 50.58%
-- Flow 1:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 66.372 ms
Loss rate: 23.37%
-- Flow 2:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 70.118 ms
Loss rate: 61.45%
-- Flow 3:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 72.156 ms
Loss rate: 69.99%
```

Run 3: Report of Verus — Data Link

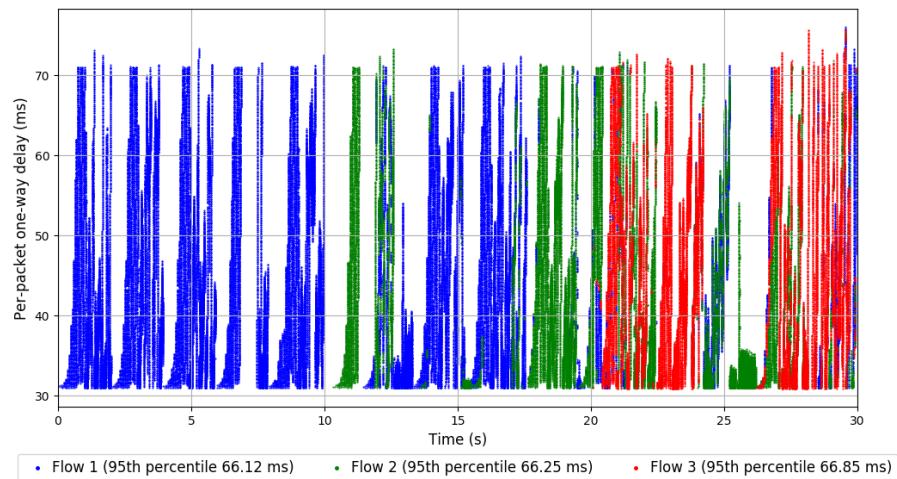
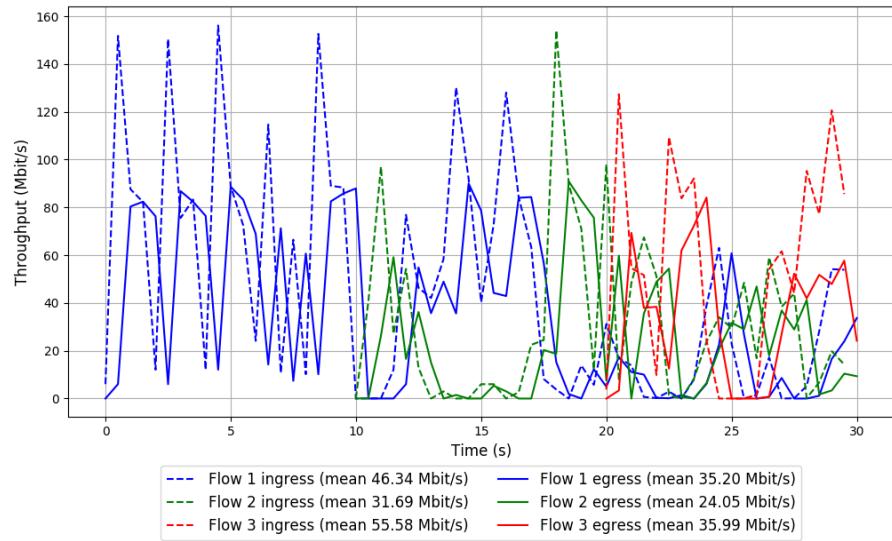


Run 4: Statistics of Verus

```
Start at: 2019-03-27 02:23:59
End at: 2019-03-27 02:24:29
Local clock offset: 0.117 ms
Remote clock offset: 0.707 ms

# Below is generated by plot.py at 2019-03-27 03:24:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.87 Mbit/s
95th percentile per-packet one-way delay: 66.286 ms
Loss rate: 26.38%
-- Flow 1:
Average throughput: 35.20 Mbit/s
95th percentile per-packet one-way delay: 66.118 ms
Loss rate: 24.00%
-- Flow 2:
Average throughput: 24.05 Mbit/s
95th percentile per-packet one-way delay: 66.248 ms
Loss rate: 24.05%
-- Flow 3:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 66.850 ms
Loss rate: 35.03%
```

Run 4: Report of Verus — Data Link

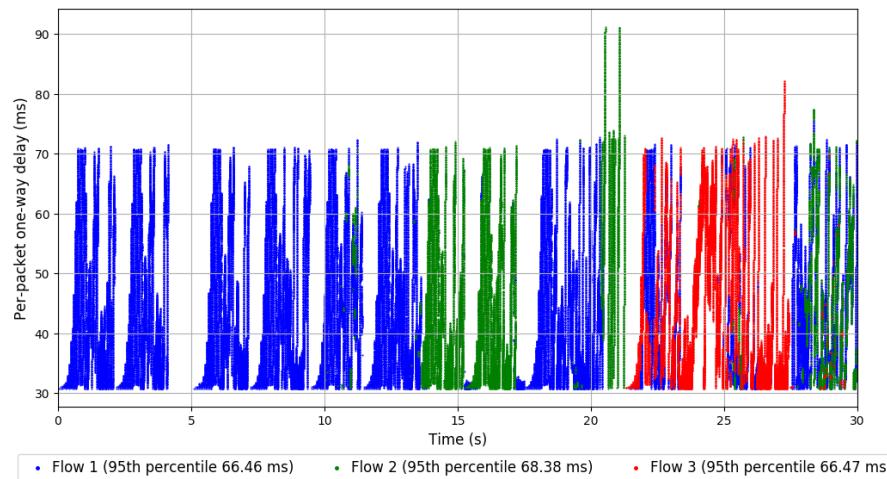
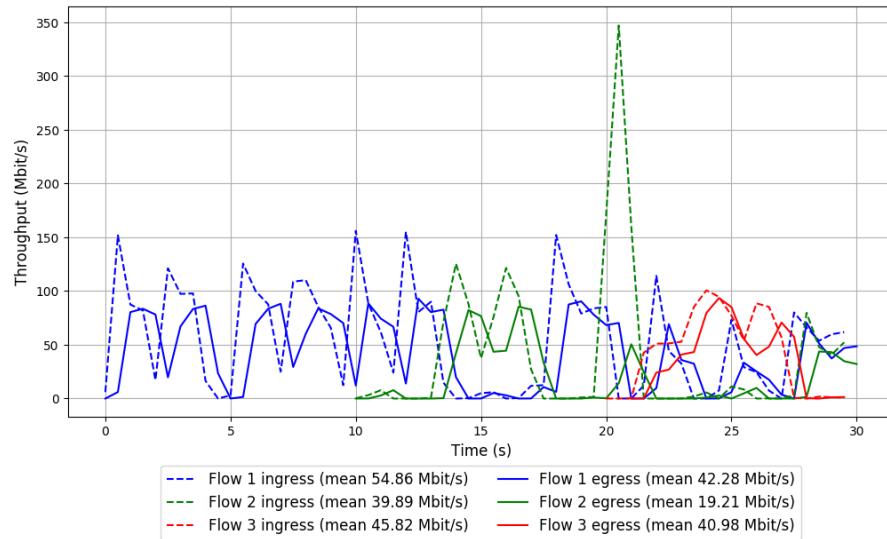


Run 5: Statistics of Verus

```
Start at: 2019-03-27 02:49:33
End at: 2019-03-27 02:50:03
Local clock offset: 0.491 ms
Remote clock offset: 1.38 ms

# Below is generated by plot.py at 2019-03-27 03:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.24 Mbit/s
95th percentile per-packet one-way delay: 66.824 ms
Loss rate: 30.58%
-- Flow 1:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 66.463 ms
Loss rate: 22.83%
-- Flow 2:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 68.375 ms
Loss rate: 51.74%
-- Flow 3:
Average throughput: 40.98 Mbit/s
95th percentile per-packet one-way delay: 66.470 ms
Loss rate: 20.89%
```

Run 5: Report of Verus — Data Link

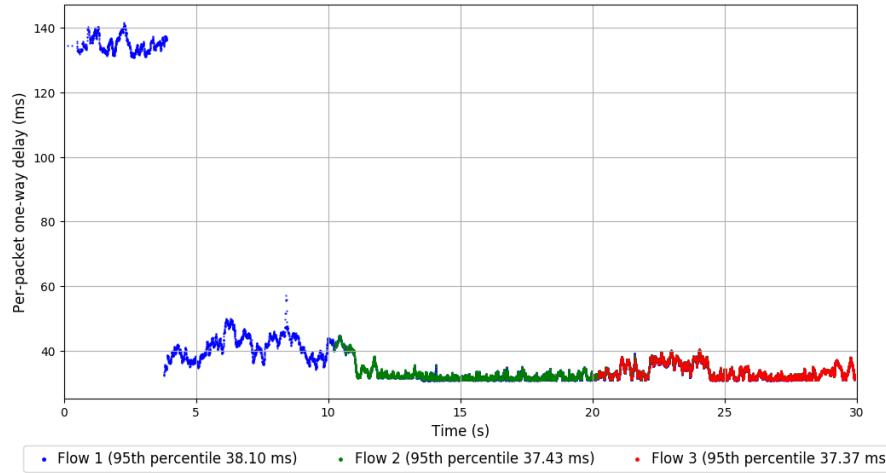
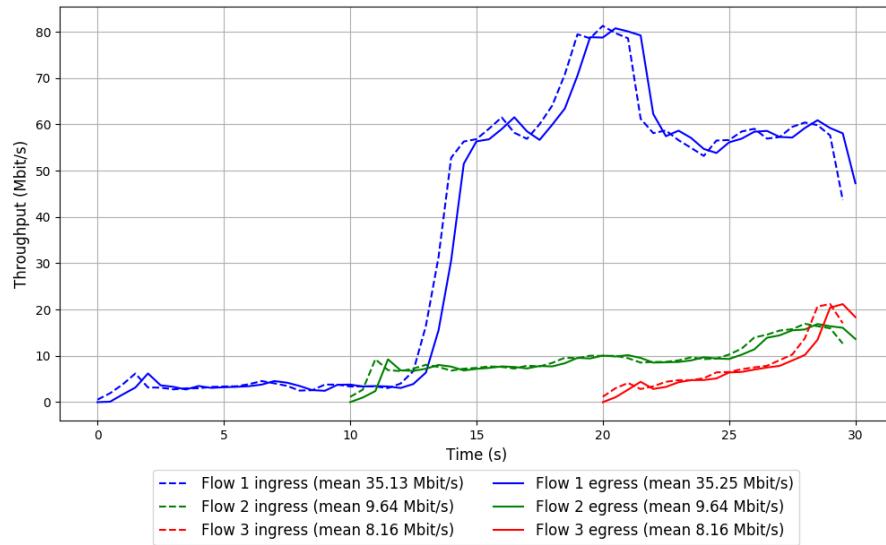


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-03-27 01:27:50
End at: 2019-03-27 01:28:20
Local clock offset: 0.244 ms
Remote clock offset: -1.852 ms

# Below is generated by plot.py at 2019-03-27 03:24:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.38 Mbit/s
95th percentile per-packet one-way delay: 37.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.25 Mbit/s
95th percentile per-packet one-way delay: 38.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 37.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.16 Mbit/s
95th percentile per-packet one-way delay: 37.373 ms
Loss rate: 0.00%
```

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

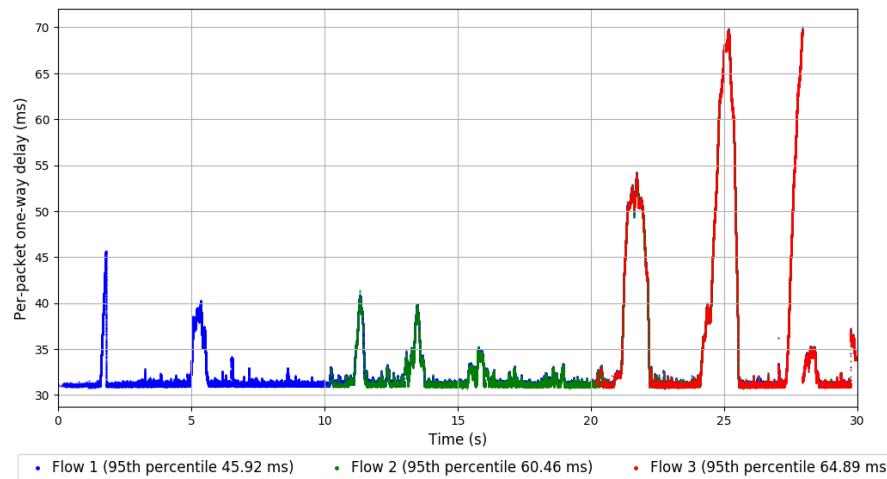
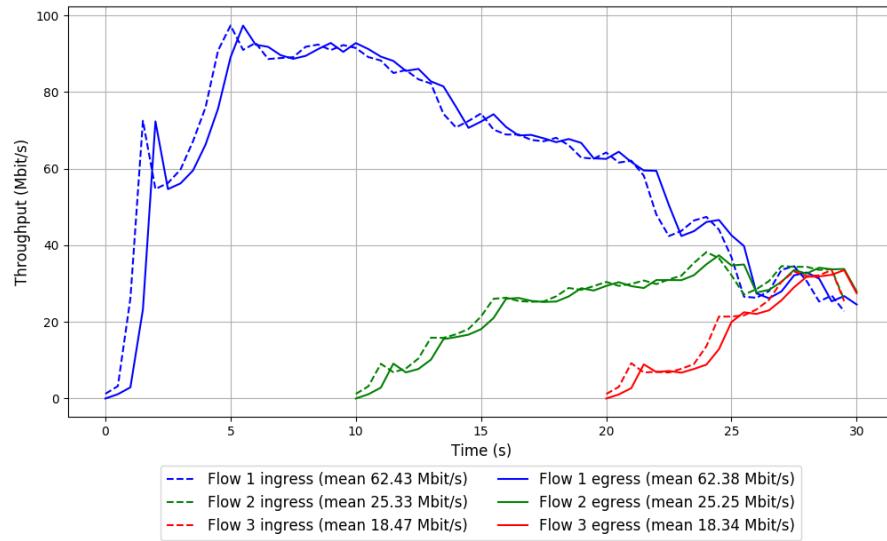


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-27 01:53:16
End at: 2019-03-27 01:53:46
Local clock offset: 0.244 ms
Remote clock offset: -0.656 ms

# Below is generated by plot.py at 2019-03-27 03:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.23 Mbit/s
95th percentile per-packet one-way delay: 51.399 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 62.38 Mbit/s
95th percentile per-packet one-way delay: 45.919 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 25.25 Mbit/s
95th percentile per-packet one-way delay: 60.460 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 18.34 Mbit/s
95th percentile per-packet one-way delay: 64.886 ms
Loss rate: 0.67%
```

Run 2: Report of PCC-Vivace — Data Link

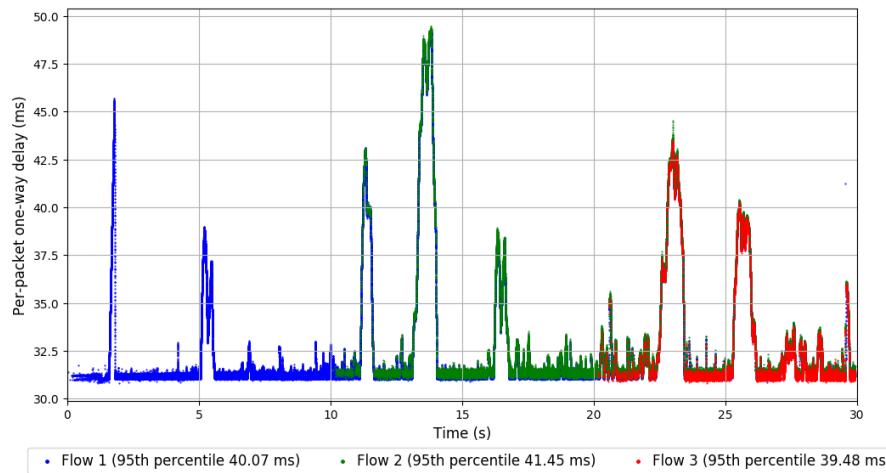
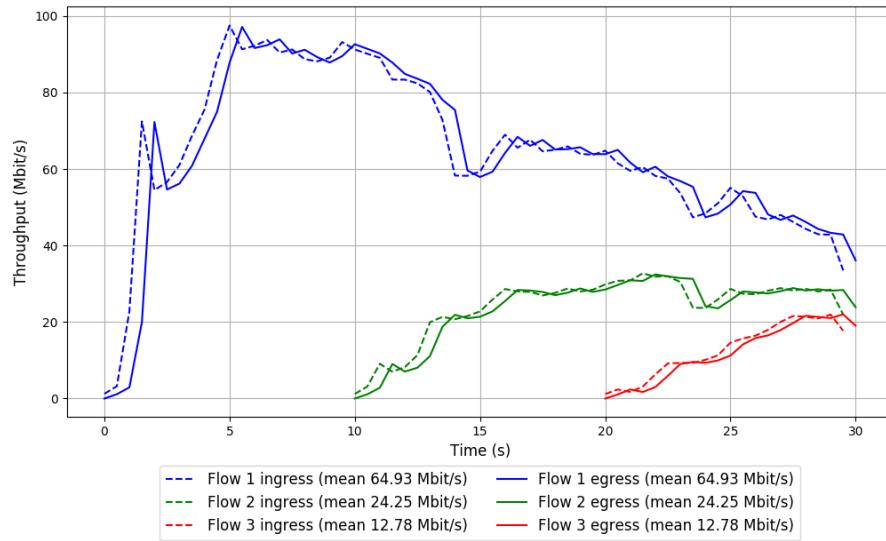


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-27 02:19:07
End at: 2019-03-27 02:19:37
Local clock offset: 0.035 ms
Remote clock offset: 0.569 ms

# Below is generated by plot.py at 2019-03-27 03:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 40.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.93 Mbit/s
95th percentile per-packet one-way delay: 40.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 41.446 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.78 Mbit/s
95th percentile per-packet one-way delay: 39.480 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

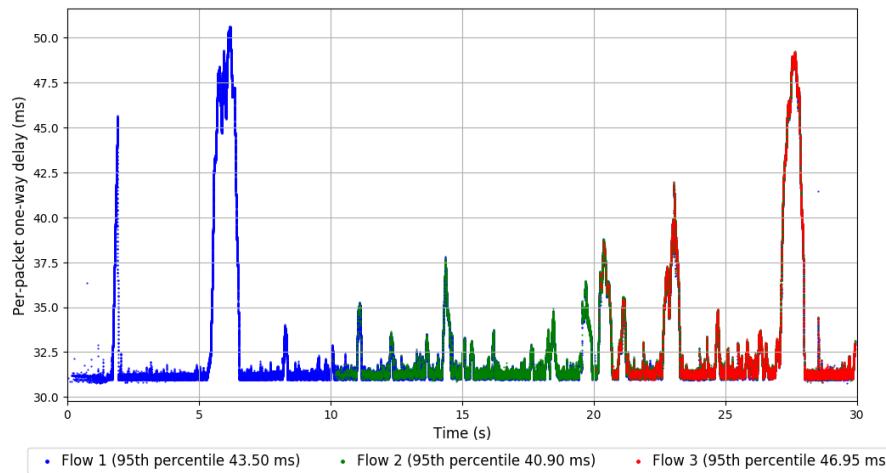
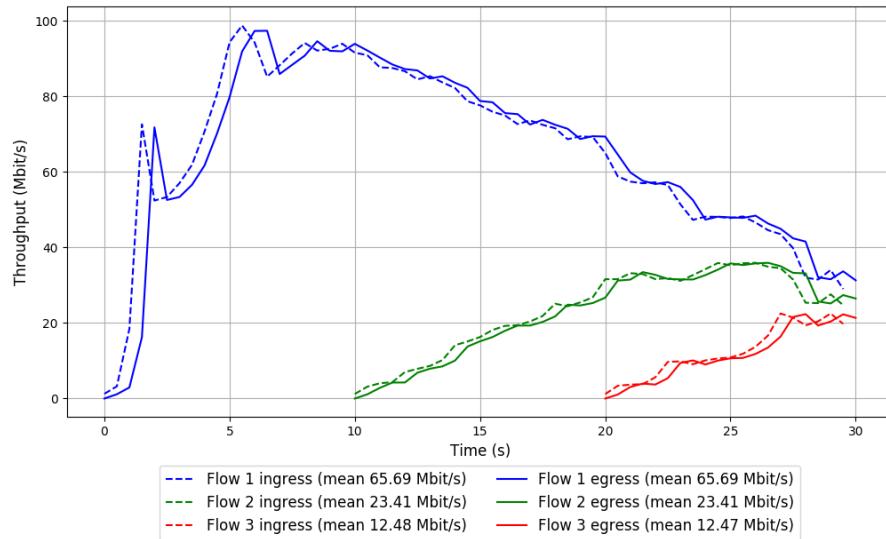


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-27 02:44:47
End at: 2019-03-27 02:45:17
Local clock offset: 0.483 ms
Remote clock offset: 1.436 ms

# Below is generated by plot.py at 2019-03-27 03:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.38 Mbit/s
95th percentile per-packet one-way delay: 43.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.69 Mbit/s
95th percentile per-packet one-way delay: 43.504 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 40.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 46.950 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

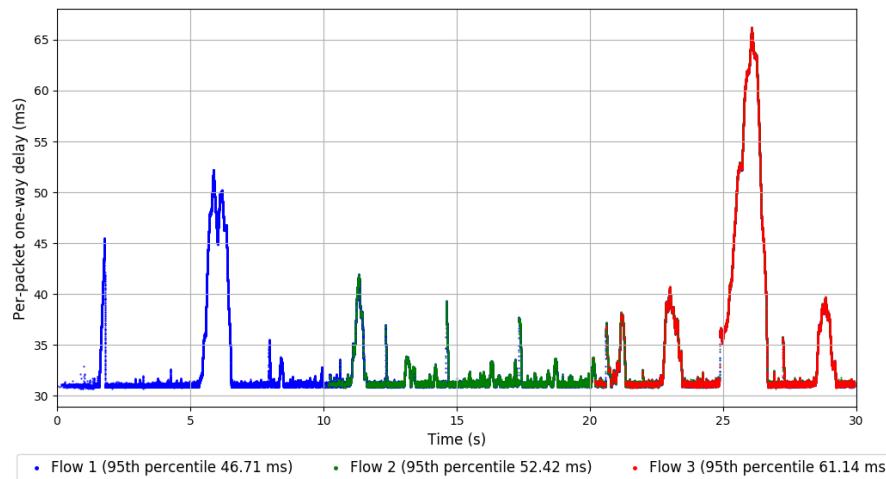
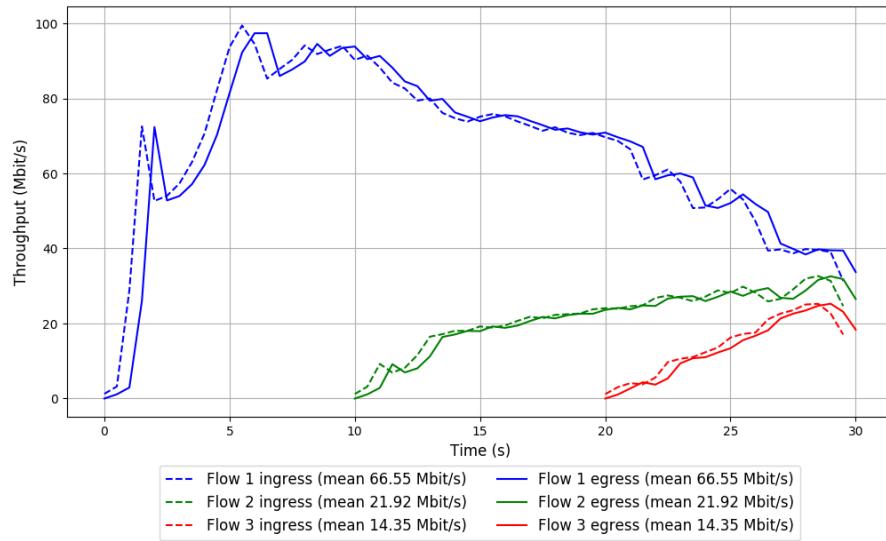


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-27 03:10:12
End at: 2019-03-27 03:10:42
Local clock offset: 0.619 ms
Remote clock offset: 1.645 ms

# Below is generated by plot.py at 2019-03-27 03:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 47.968 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.55 Mbit/s
95th percentile per-packet one-way delay: 46.710 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.92 Mbit/s
95th percentile per-packet one-way delay: 52.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.35 Mbit/s
95th percentile per-packet one-way delay: 61.141 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

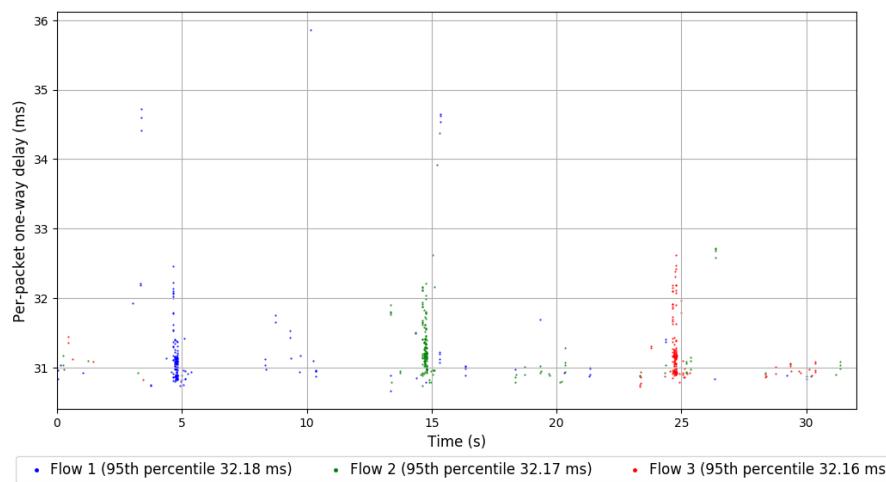
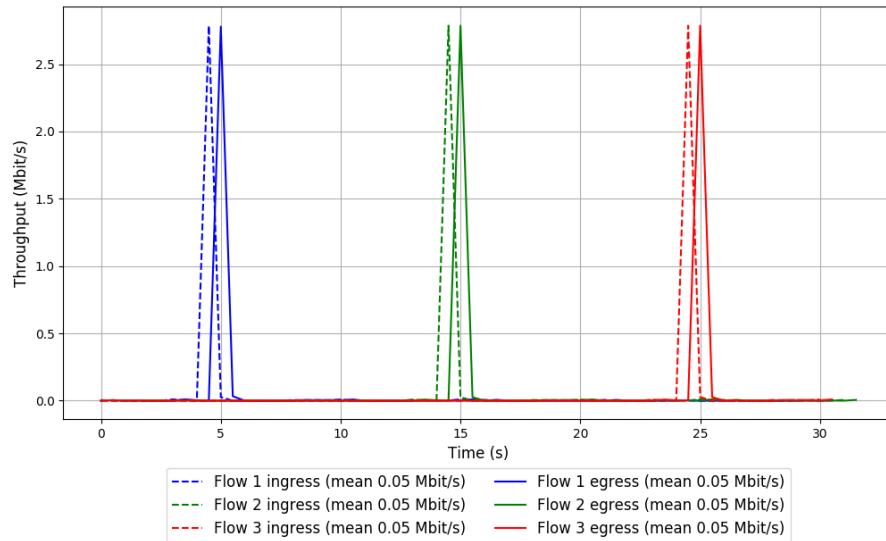


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-27 01:20:16
End at: 2019-03-27 01:20:46
Local clock offset: 0.141 ms
Remote clock offset: -1.977 ms

# Below is generated by plot.py at 2019-03-27 03:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 32.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.182 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.167 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.155 ms
Loss rate: 0.00%
```

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

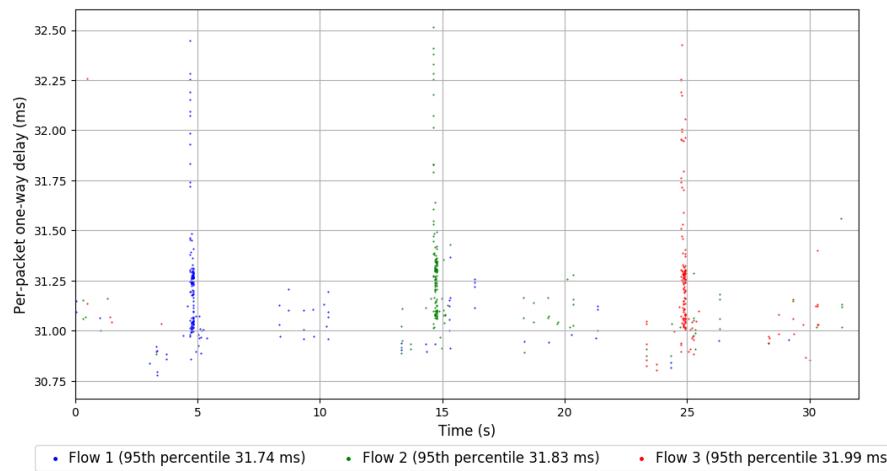
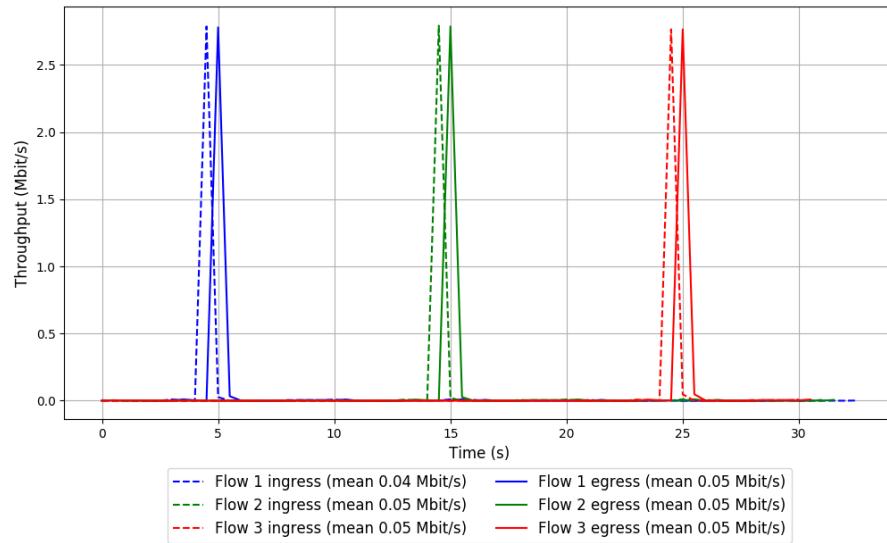


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-27 01:46:00
End at: 2019-03-27 01:46:30
Local clock offset: 0.367 ms
Remote clock offset: -0.775 ms

# Below is generated by plot.py at 2019-03-27 03:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 31.956 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.742 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.831 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.993 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

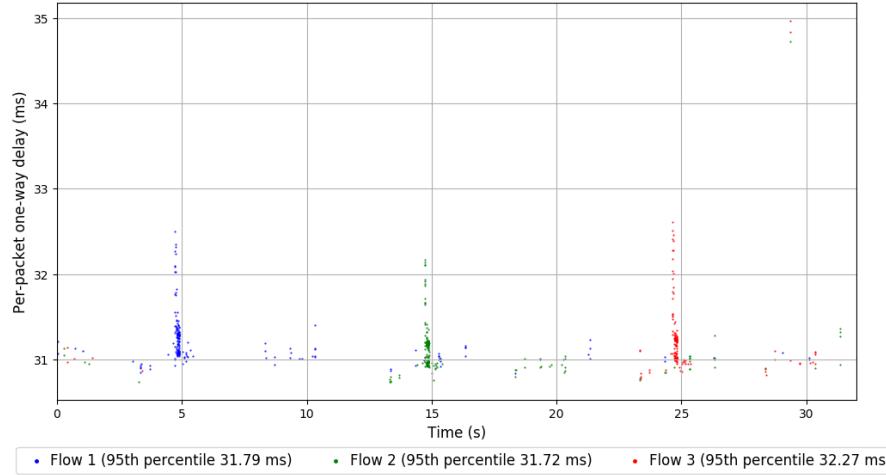
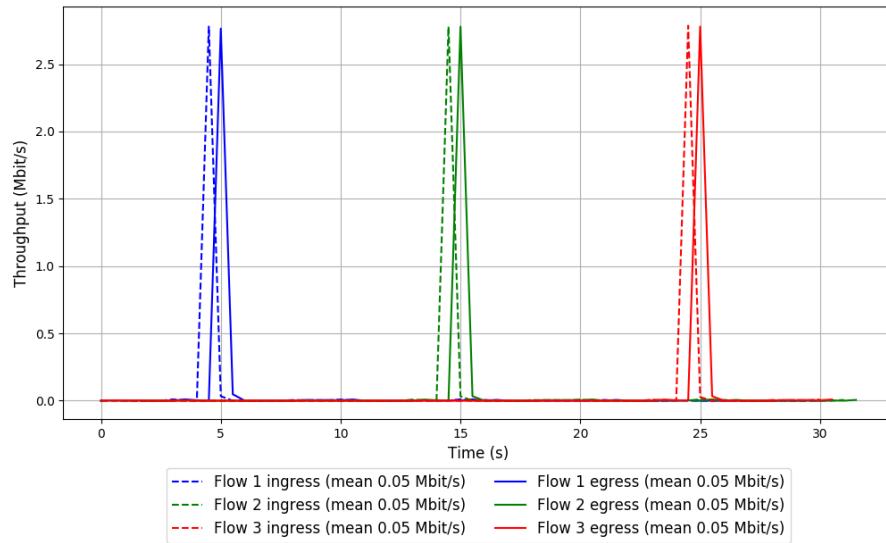


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-27 02:11:36
End at: 2019-03-27 02:12:06
Local clock offset: 0.106 ms
Remote clock offset: 0.268 ms

# Below is generated by plot.py at 2019-03-27 03:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 31.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.786 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.716 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 32.275 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

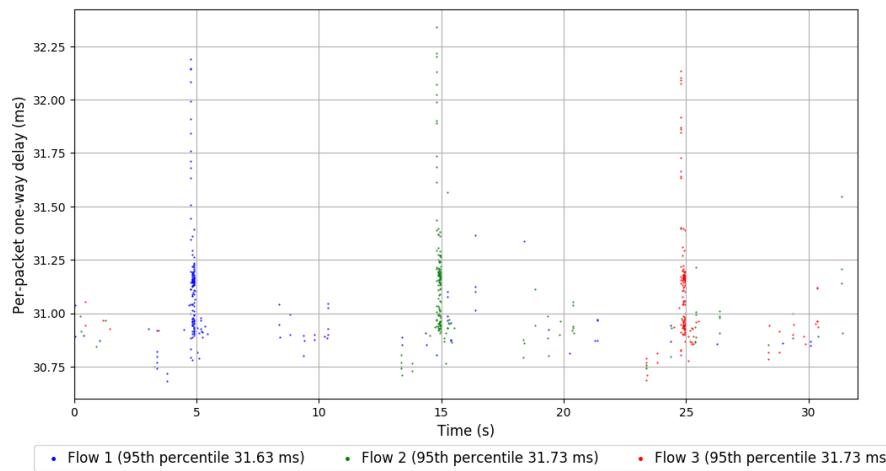
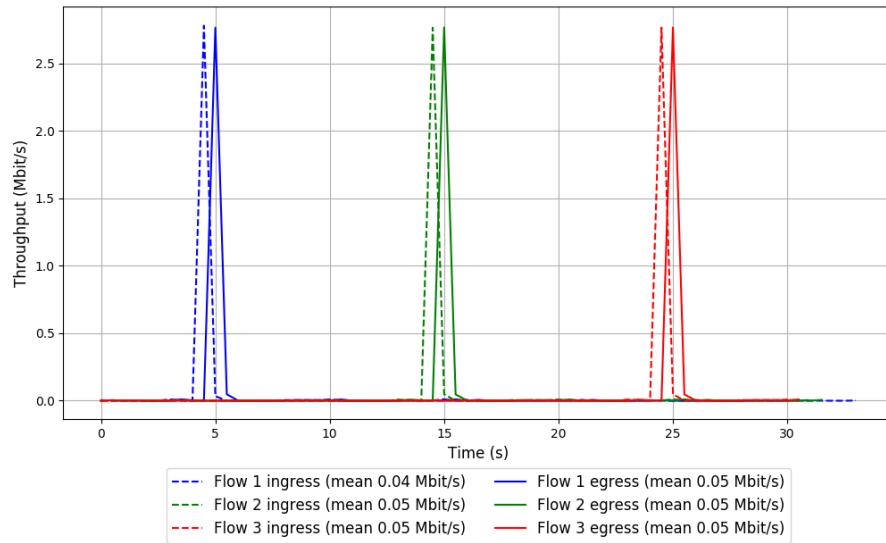


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-27 02:37:33
End at: 2019-03-27 02:38:03
Local clock offset: 0.371 ms
Remote clock offset: 1.016 ms

# Below is generated by plot.py at 2019-03-27 03:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 31.713 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.632 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.735 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.729 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of WebRTC media

```
Start at: 2019-03-27 03:02:52
End at: 2019-03-27 03:03:22
Local clock offset: 0.568 ms
Remote clock offset: 1.937 ms

# Below is generated by plot.py at 2019-03-27 03:24:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 31.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.797 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.769 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 31.854 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

