

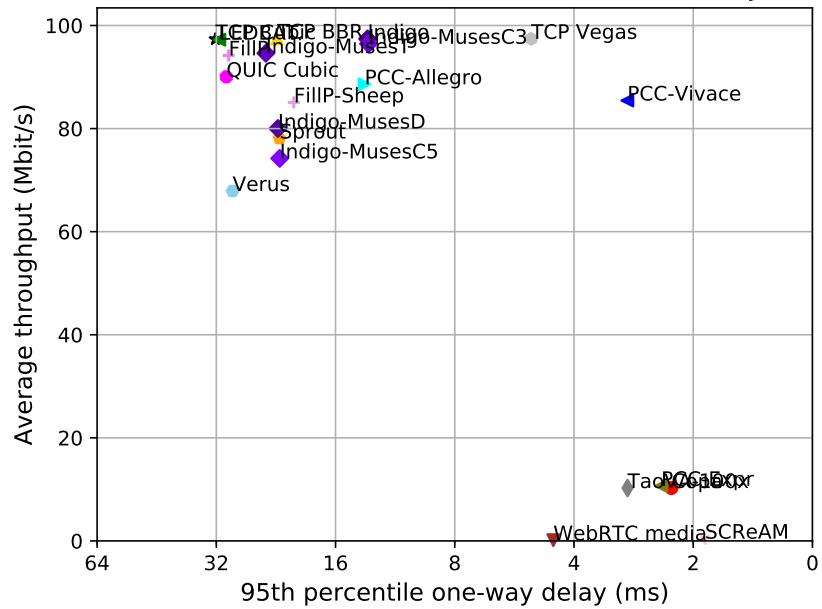
## Pantheon Report

Generated at 2019-03-19 04:43:33 (UTC).  
Data path: AWS Brazil 1 on `ens5` (*local*) → Brazil on `p4p1` (*remote*).  
Repeated the test of 21 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.  
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

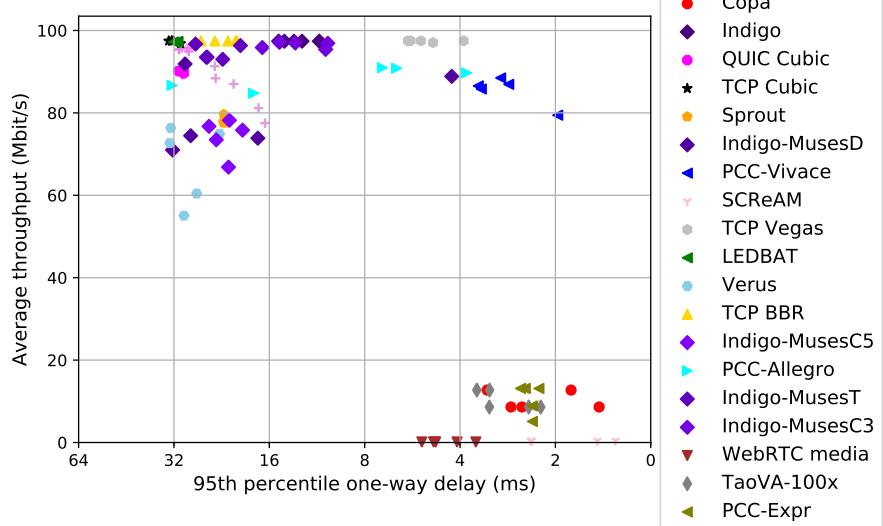
```
System info:  
Linux 4.15.0-1033-aws  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
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 Brazil 1 to Brazil, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 1 to Brazil, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows



↳

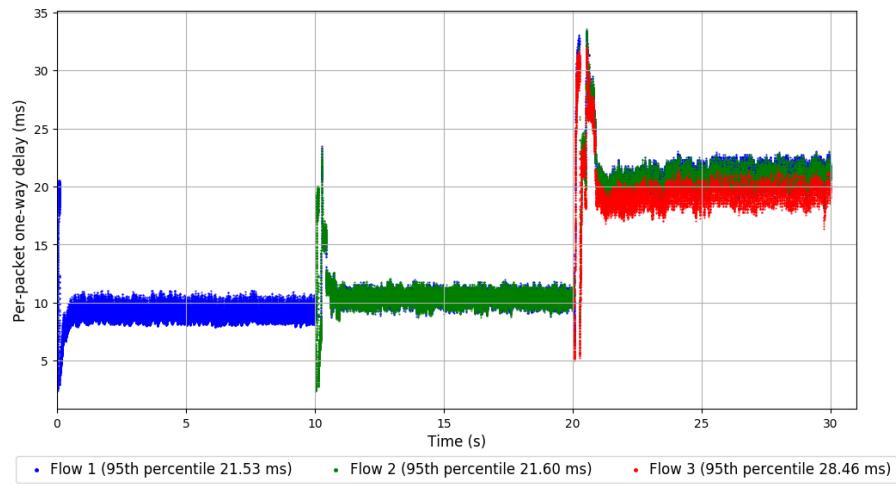
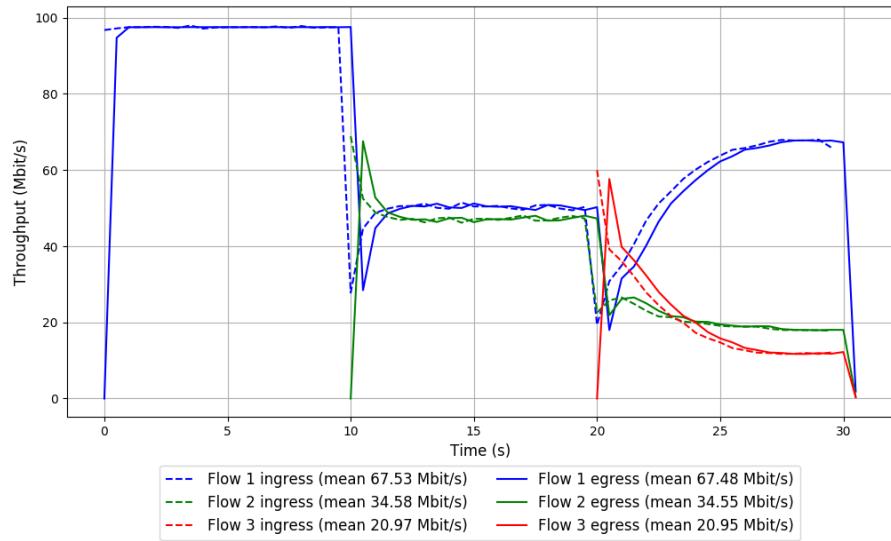
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	65.42	35.67	24.91	22.05	20.81	25.12	0.01	0.01	0.01
Copa	5	4.33	8.36	1.27	2.43	2.58	2.82	85.62	73.15	86.37
TCP Cubic	5	60.35	40.38	30.41	31.64	32.24	31.73	0.04	0.04	0.04
FillP	5	47.38	58.15	24.35	28.57	29.68	29.47	12.05	17.76	37.39
FillP-Sheep	5	53.04	33.56	29.32	17.96	22.23	23.40	0.79	1.55	2.91
Indigo	5	46.74	40.62	72.92	10.97	12.91	13.49	0.00	0.00	0.00
Indigo-MusesC3	5	60.52	38.38	36.23	13.47	12.40	11.39	0.00	0.00	0.00
Indigo-MusesC5	5	42.35	32.59	35.17	20.62	22.85	23.63	0.00	0.01	0.00
Indigo-MusesD	5	39.52	49.79	26.62	21.28	22.68	23.06	0.07	0.15	0.98
Indigo-MusesT	5	60.62	41.49	22.99	22.27	25.12	26.35	0.04	0.08	0.15
LEDBAT	5	60.04	41.27	29.31	30.85	32.02	32.11	0.03	0.06	0.10
PCC-Allegro	5	68.02	25.40	11.16	12.50	15.52	17.41	0.02	0.06	0.11
PCC-Expr	5	5.12	5.91	5.48	2.12	2.41	2.11	48.06	33.00	21.10
QUIC Cubic	5	58.07	33.94	28.59	30.04	29.90	30.80	0.15	0.19	0.28
SCReAM	5	0.22	0.22	0.22	1.51	1.50	1.50	0.00	0.00	0.00
Sprout	5	42.21	38.49	31.05	20.67	22.16	23.53	0.00	0.01	0.00
TaoVA-100x	5	2.61	7.45	8.48	2.67	2.34	2.95	91.91	87.14	87.37
TCP Vegas	5	45.89	46.56	61.63	7.21	5.05	4.11	0.00	0.00	0.00
Verus	5	38.40	32.19	24.41	25.53	29.11	32.02	7.41	8.49	19.05
PCC-Vivace	5	52.58	36.38	26.28	2.38	3.13	3.02	0.00	0.00	0.00
WebRTC media	5	0.05	0.05	0.05	4.72	4.36	4.62	0.00	0.00	0.01

Run 1: Statistics of TCP BBR

```
Start at: 2019-03-19 02:39:55
End at: 2019-03-19 02:40:25
Local clock offset: -5.315 ms
Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-03-19 04:32:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 21.616 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 67.48 Mbit/s
95th percentile per-packet one-way delay: 21.528 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 21.596 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 28.459 ms
Loss rate: 0.02%
```

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

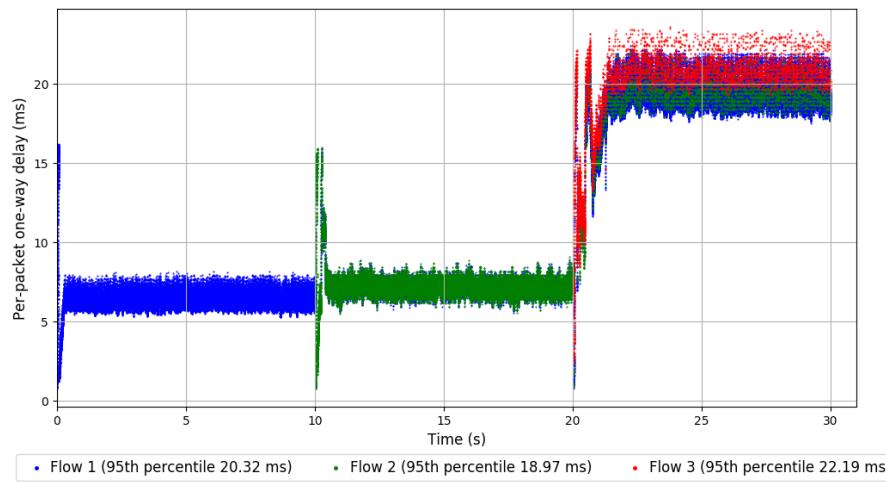
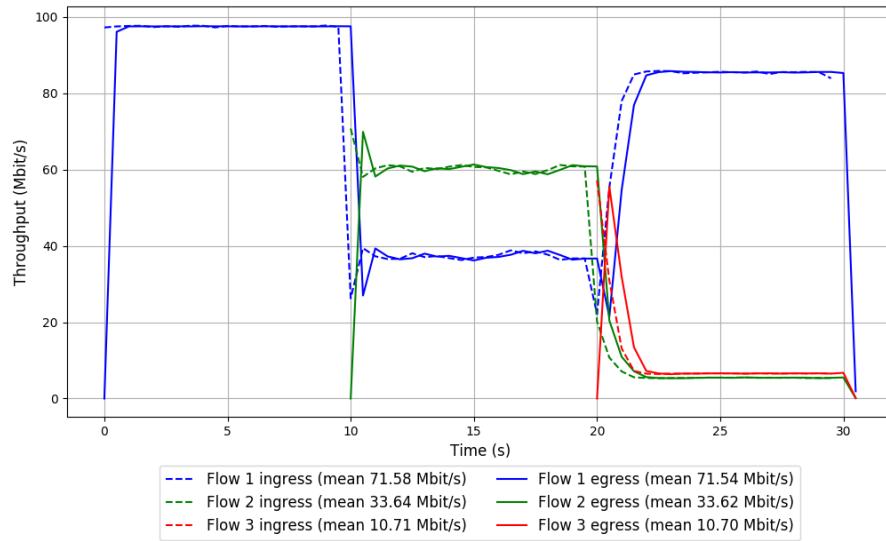


Run 2: Statistics of TCP BBR

```
Start at: 2019-03-19 03:03:50
End at: 2019-03-19 03:04:20
Local clock offset: -4.968 ms
Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2019-03-19 04:32:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 20.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.54 Mbit/s
95th percentile per-packet one-way delay: 20.324 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.62 Mbit/s
95th percentile per-packet one-way delay: 18.968 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.70 Mbit/s
95th percentile per-packet one-way delay: 22.194 ms
Loss rate: 0.00%
```

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

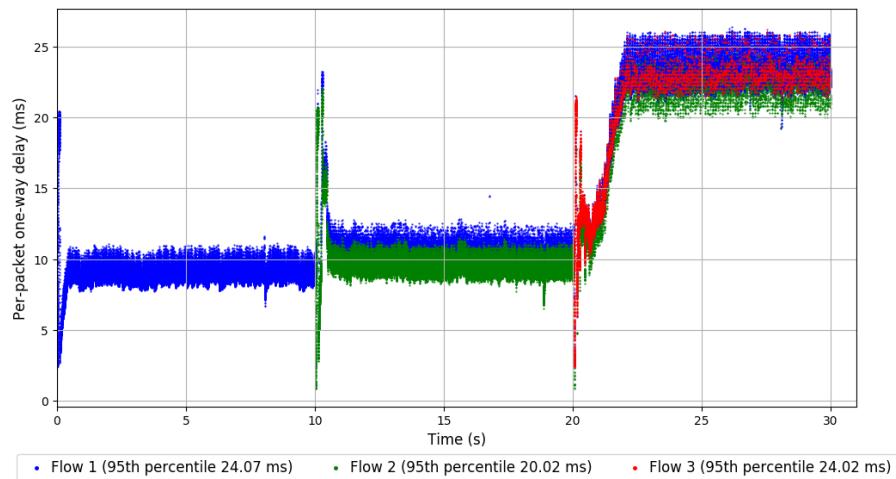
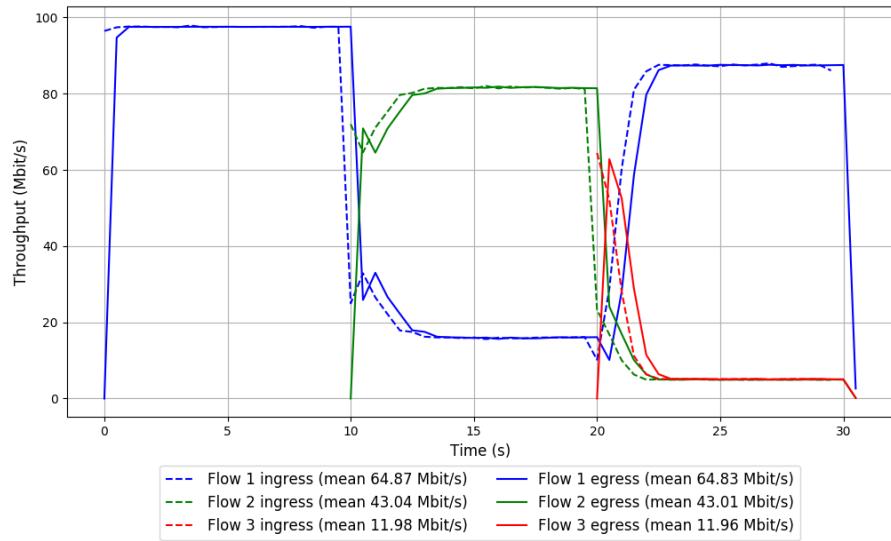


Run 3: Statistics of TCP BBR

```
Start at: 2019-03-19 03:27:43
End at: 2019-03-19 03:28:13
Local clock offset: -1.653 ms
Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2019-03-19 04:32:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 23.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.83 Mbit/s
95th percentile per-packet one-way delay: 24.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.01 Mbit/s
95th percentile per-packet one-way delay: 20.025 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 24.023 ms
Loss rate: 0.00%
```

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

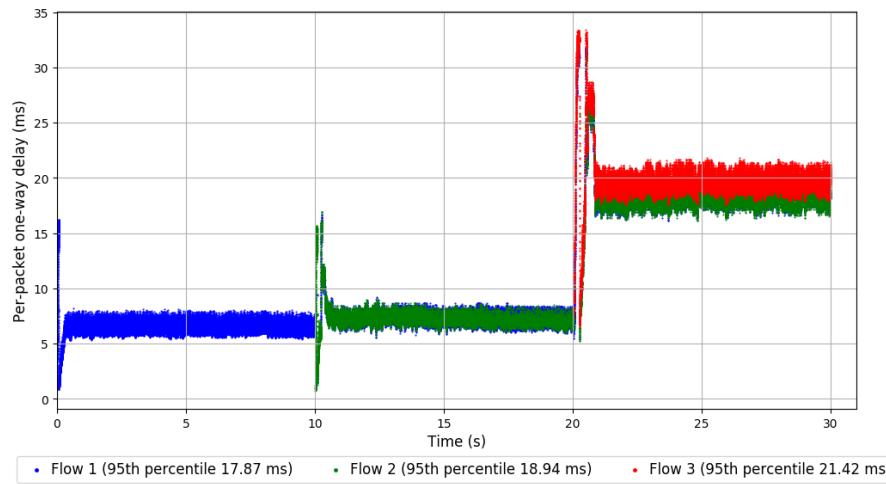
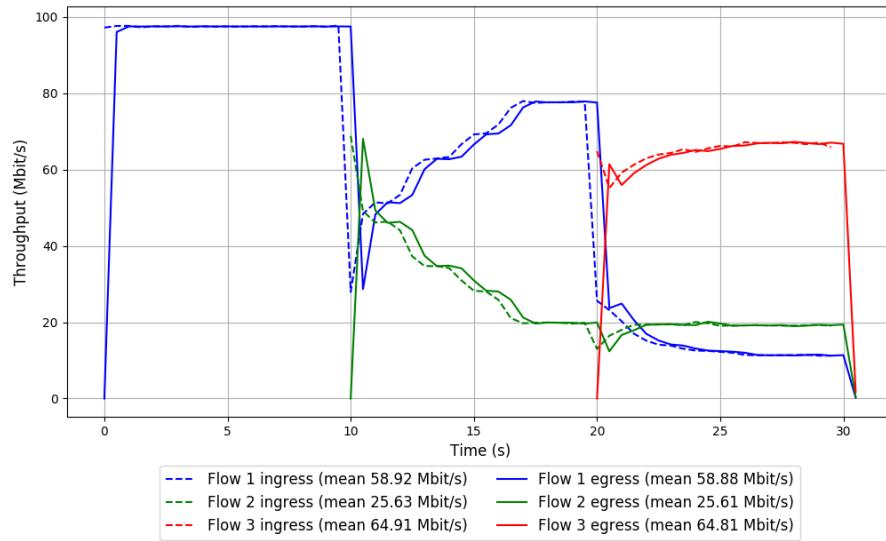


Run 4: Statistics of TCP BBR

```
Start at: 2019-03-19 03:51:39
End at: 2019-03-19 03:52:09
Local clock offset: -0.573 ms
Remote clock offset: 0.588 ms

# Below is generated by plot.py at 2019-03-19 04:32:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 20.274 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.88 Mbit/s
95th percentile per-packet one-way delay: 17.868 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 25.61 Mbit/s
95th percentile per-packet one-way delay: 18.941 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 64.81 Mbit/s
95th percentile per-packet one-way delay: 21.417 ms
Loss rate: 0.04%
```

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

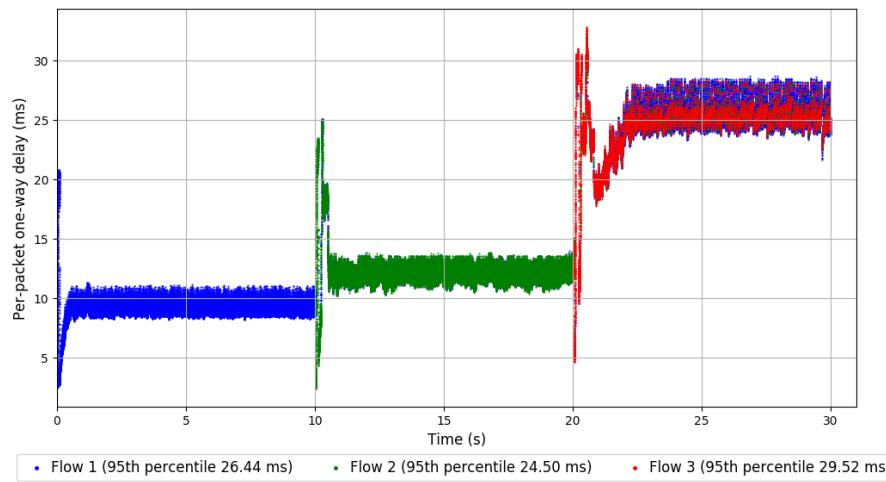
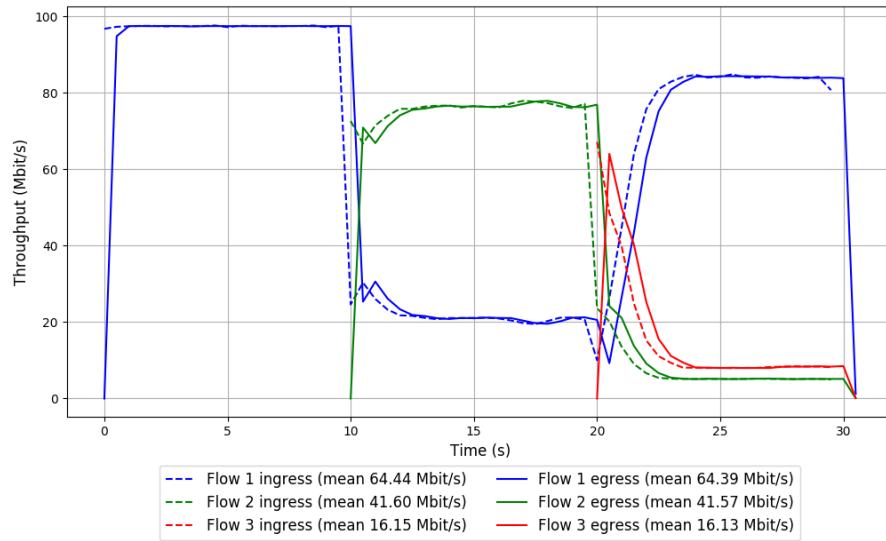


Run 5: Statistics of TCP BBR

```
Start at: 2019-03-19 04:15:34
End at: 2019-03-19 04:16:04
Local clock offset: -0.915 ms
Remote clock offset: 0.753 ms

# Below is generated by plot.py at 2019-03-19 04:32:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 26.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.39 Mbit/s
95th percentile per-packet one-way delay: 26.438 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.57 Mbit/s
95th percentile per-packet one-way delay: 24.496 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.13 Mbit/s
95th percentile per-packet one-way delay: 29.517 ms
Loss rate: 0.00%
```

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

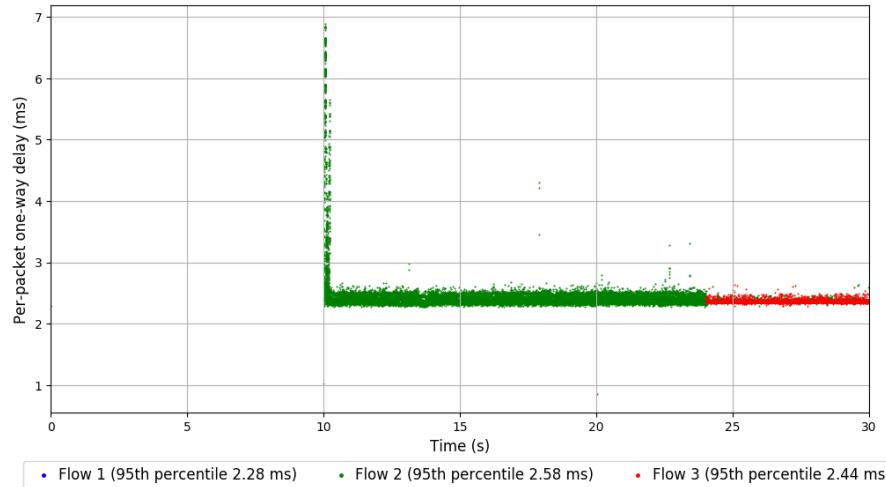
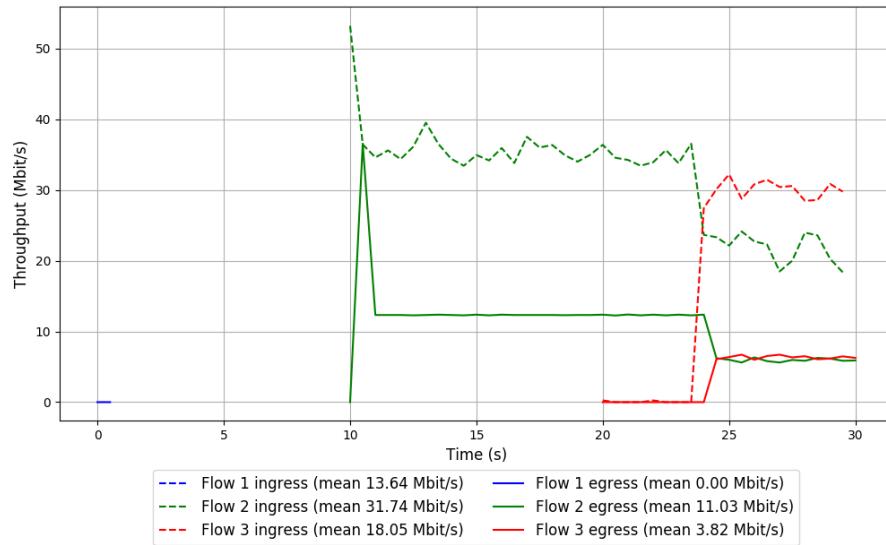


Run 1: Statistics of Copa

```
Start at: 2019-03-19 02:36:36
End at: 2019-03-19 02:37:06
Local clock offset: -5.294 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-03-19 04:32:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.550 ms
Loss rate: 68.25%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.283 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 2.577 ms
Loss rate: 65.24%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 2.437 ms
Loss rate: 78.84%
```

## Run 1: Report of Copa — Data Link

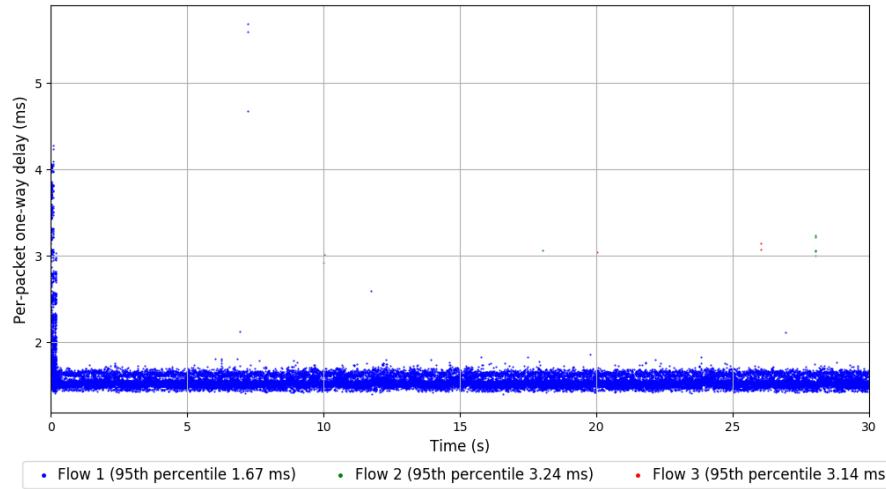
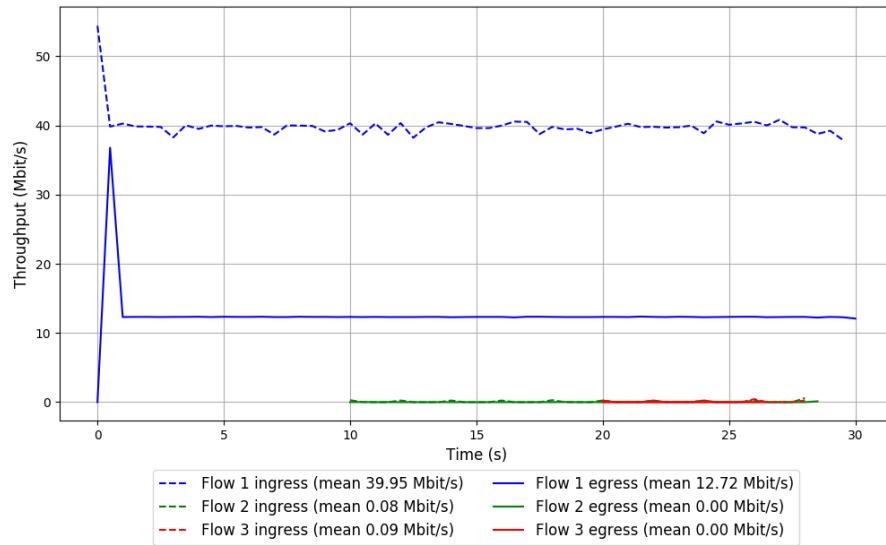


Run 2: Statistics of Copa

```
Start at: 2019-03-19 03:00:31
End at: 2019-03-19 03:01:01
Local clock offset: -5.729 ms
Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2019-03-19 04:32:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 1.672 ms
Loss rate: 68.21%
-- Flow 1:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 1.672 ms
Loss rate: 68.16%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.238 ms
Loss rate: 94.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.144 ms
Loss rate: 96.41%
```

## Run 2: Report of Copa — Data Link

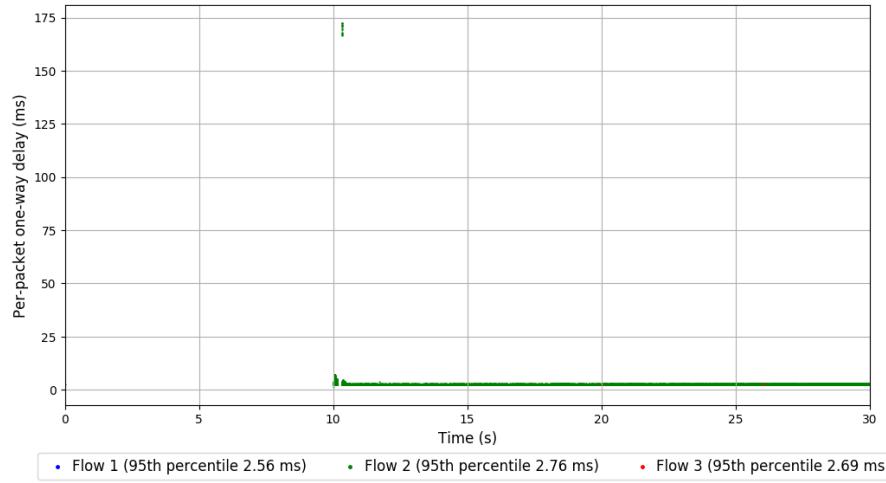
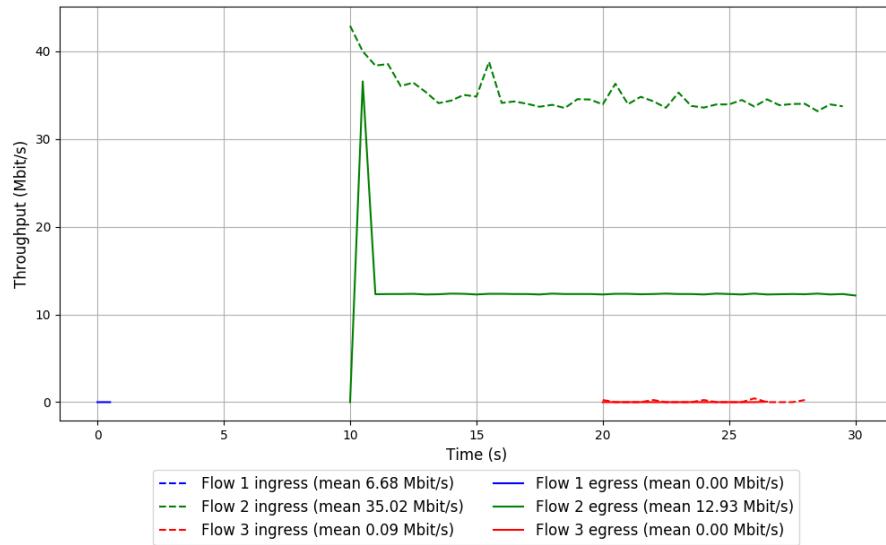


Run 3: Statistics of Copa

```
Start at: 2019-03-19 03:24:24
End at: 2019-03-19 03:24:54
Local clock offset: -2.309 ms
Remote clock offset: 0.437 ms

# Below is generated by plot.py at 2019-03-19 04:32:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.762 ms
Loss rate: 63.11%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.565 ms
Loss rate: 97.24%
-- Flow 2:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 2.762 ms
Loss rate: 63.07%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.695 ms
Loss rate: 96.41%
```

### Run 3: Report of Copa — Data Link

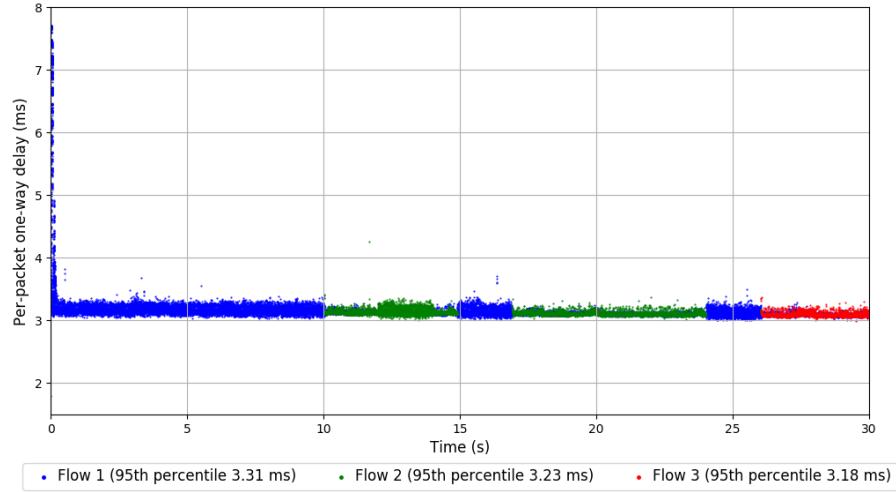
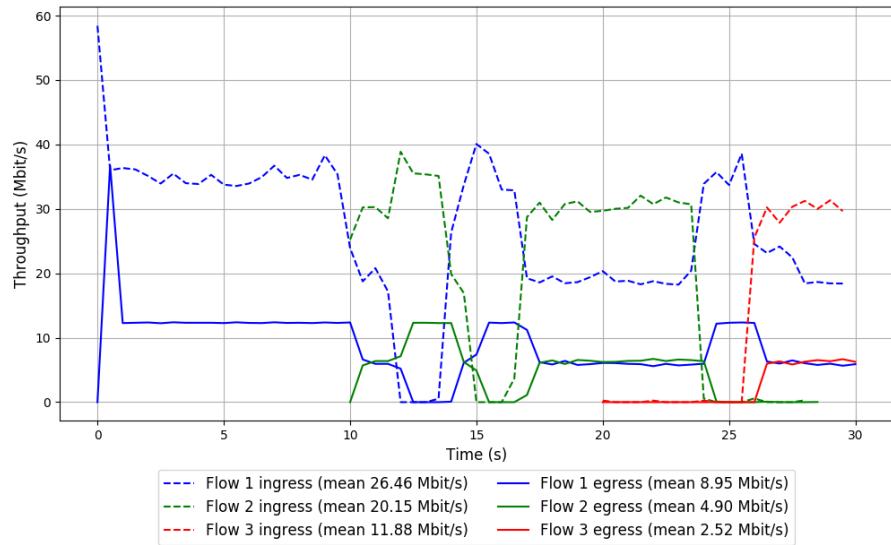


Run 4: Statistics of Copa

```
Start at: 2019-03-19 03:48:20
End at: 2019-03-19 03:48:50
Local clock offset: -1.018 ms
Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2019-03-19 04:32:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.284 ms
Loss rate: 70.06%
-- Flow 1:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 3.315 ms
Loss rate: 66.18%
-- Flow 2:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 3.229 ms
Loss rate: 75.69%
-- Flow 3:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 3.180 ms
Loss rate: 78.79%
```

## Run 4: Report of Copa — Data Link

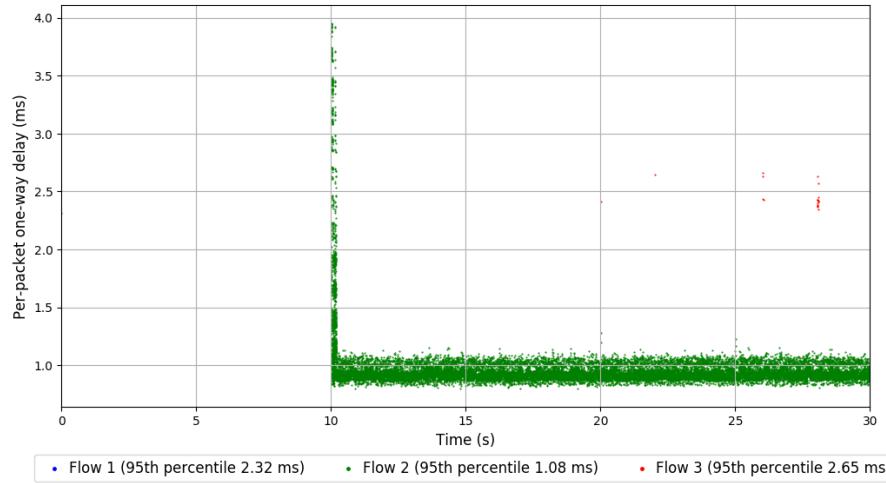
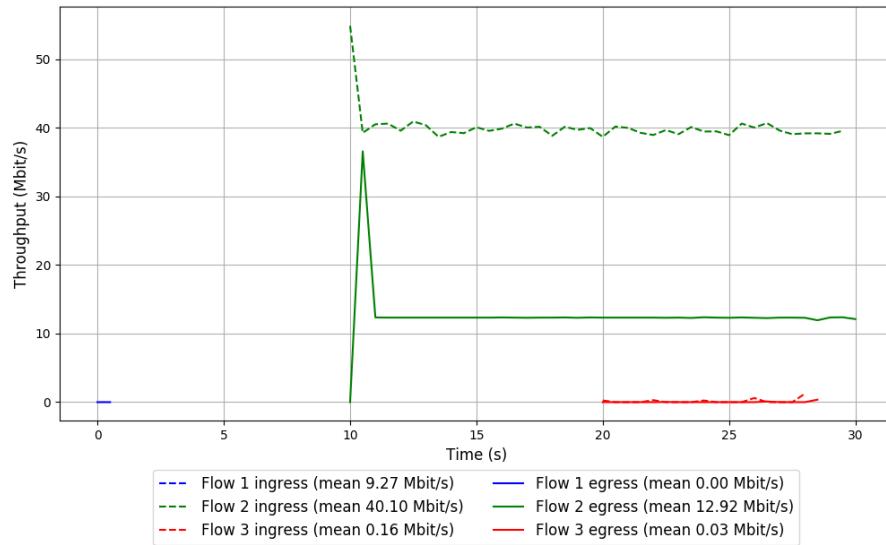


Run 5: Statistics of Copa

```
Start at: 2019-03-19 04:12:14
End at: 2019-03-19 04:12:44
Local clock offset: -0.909 ms
Remote clock offset: 0.734 ms

# Below is generated by plot.py at 2019-03-19 04:32:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 1.083 ms
Loss rate: 67.80%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.318 ms
Loss rate: 97.92%
-- Flow 2:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 67.77%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 2.649 ms
Loss rate: 81.42%
```

## Run 5: Report of Copa — Data Link

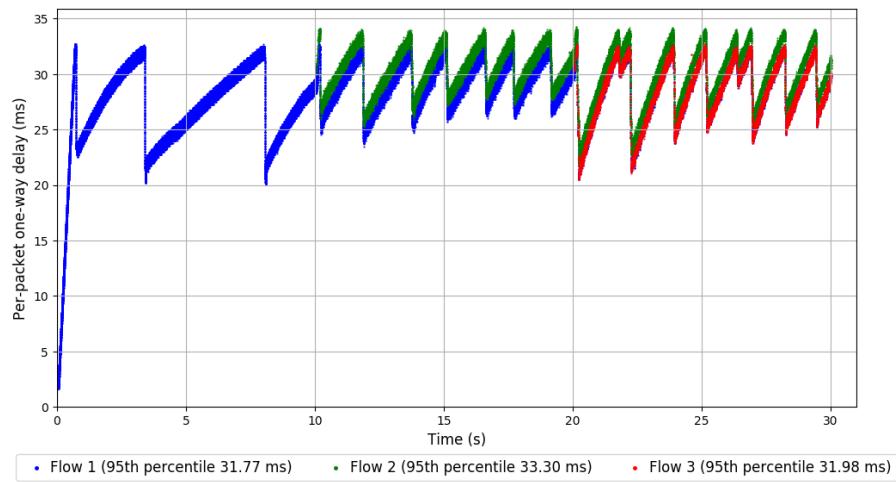
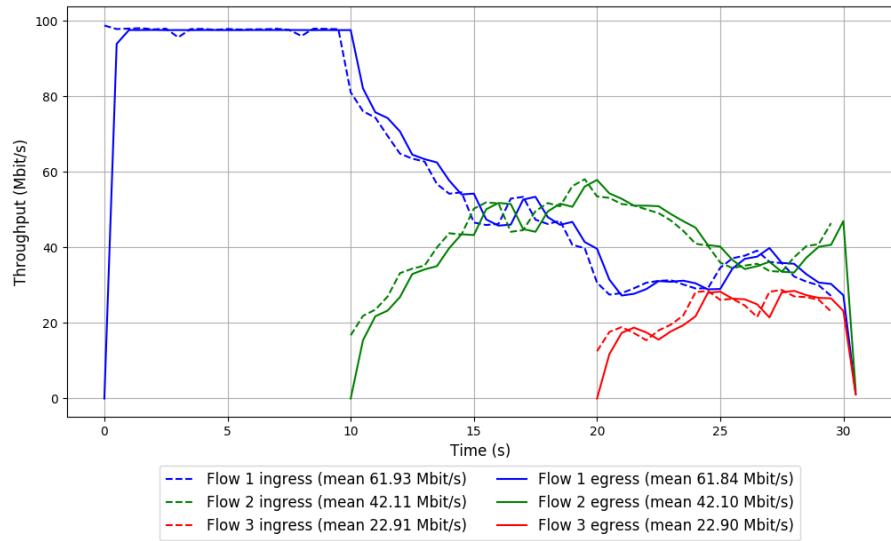


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-03-19 02:44:30
End at: 2019-03-19 02:45:00
Local clock offset: -6.042 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-03-19 04:32:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.544 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 61.84 Mbit/s
95th percentile per-packet one-way delay: 31.772 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 42.10 Mbit/s
95th percentile per-packet one-way delay: 33.297 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 22.90 Mbit/s
95th percentile per-packet one-way delay: 31.979 ms
Loss rate: 0.04%
```

Run 1: Report of TCP Cubic — Data Link

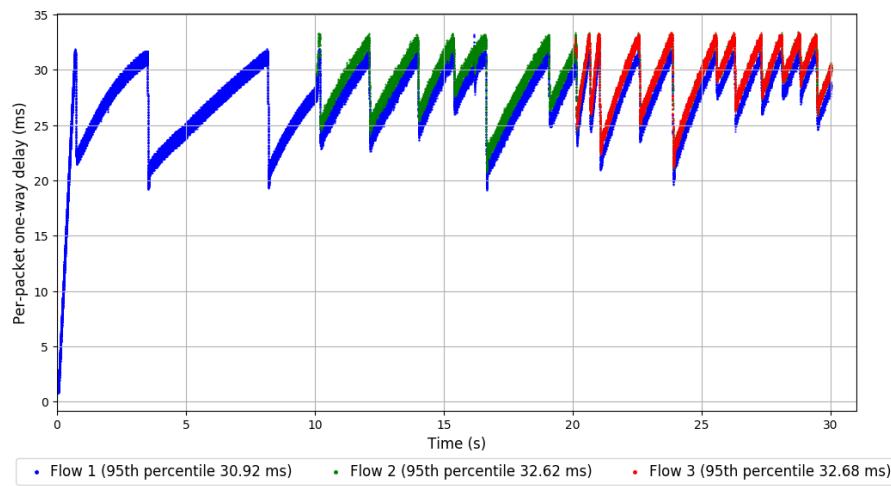
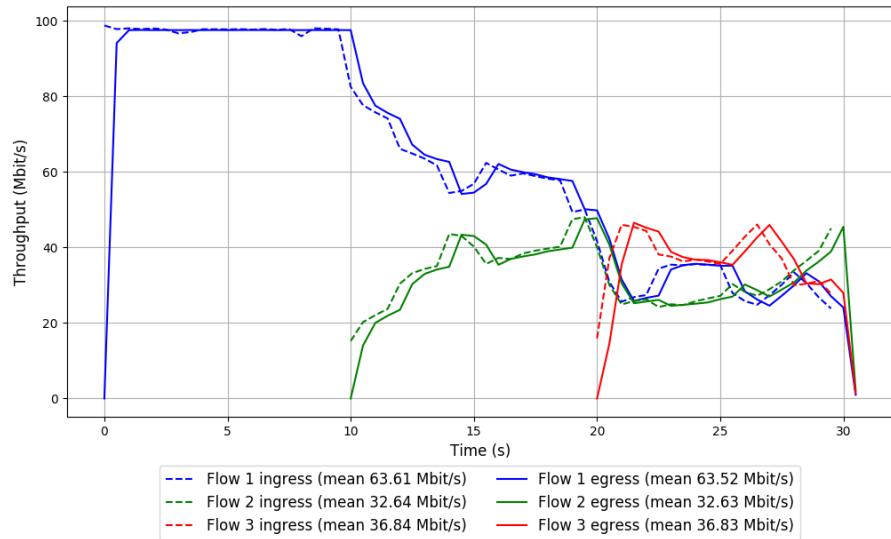


Run 2: Statistics of TCP Cubic

```
Start at: 2019-03-19 03:08:25
End at: 2019-03-19 03:08:55
Local clock offset: -4.95 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2019-03-19 04:33:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.094 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 30.924 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 32.617 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 32.676 ms
Loss rate: 0.04%
```

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

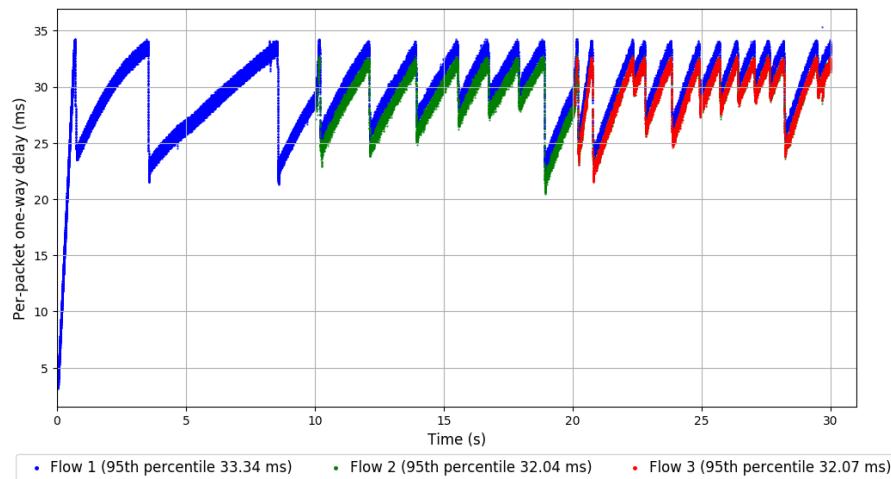
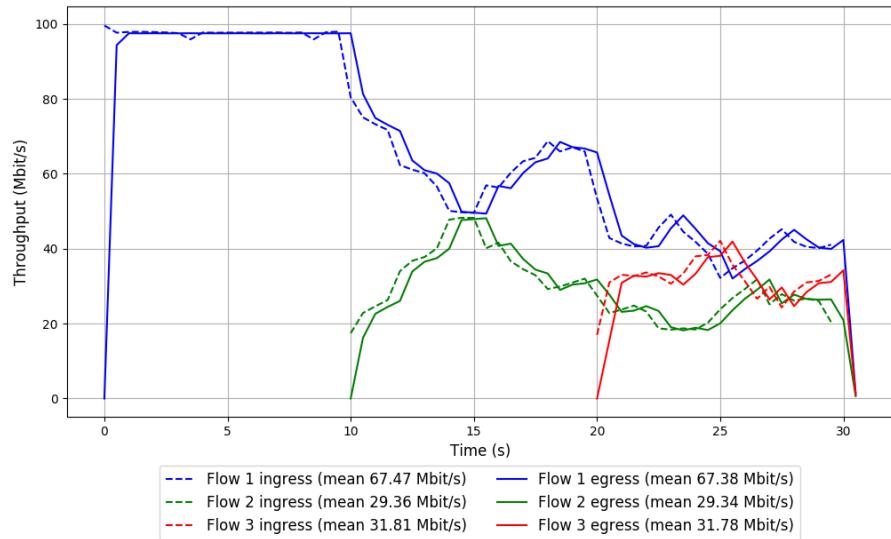


Run 3: Statistics of TCP Cubic

```
Start at: 2019-03-19 03:32:18
End at: 2019-03-19 03:32:48
Local clock offset: -1.876 ms
Remote clock offset: 0.388 ms

# Below is generated by plot.py at 2019-03-19 04:33:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.260 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 67.38 Mbit/s
95th percentile per-packet one-way delay: 33.341 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 32.036 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 32.069 ms
Loss rate: 0.04%
```

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

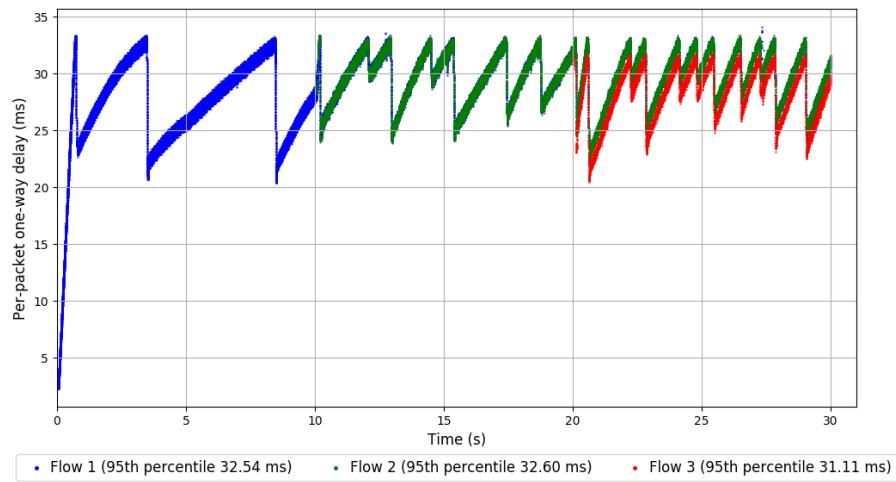
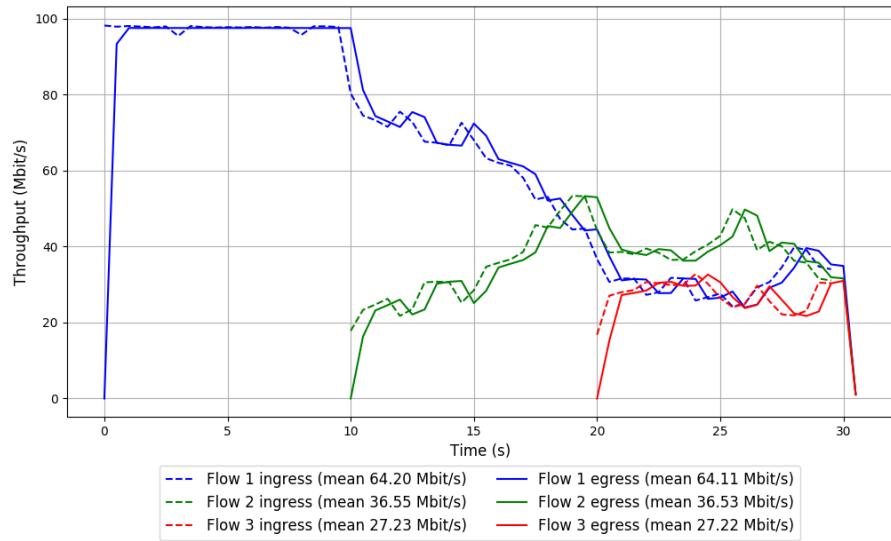


Run 4: Statistics of TCP Cubic

```
Start at: 2019-03-19 03:56:14
End at: 2019-03-19 03:56:44
Local clock offset: -0.86 ms
Remote clock offset: 0.508 ms

# Below is generated by plot.py at 2019-03-19 04:33:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 32.525 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 64.11 Mbit/s
95th percentile per-packet one-way delay: 32.538 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.53 Mbit/s
95th percentile per-packet one-way delay: 32.596 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 27.22 Mbit/s
95th percentile per-packet one-way delay: 31.106 ms
Loss rate: 0.04%
```

Run 4: Report of TCP Cubic — Data Link

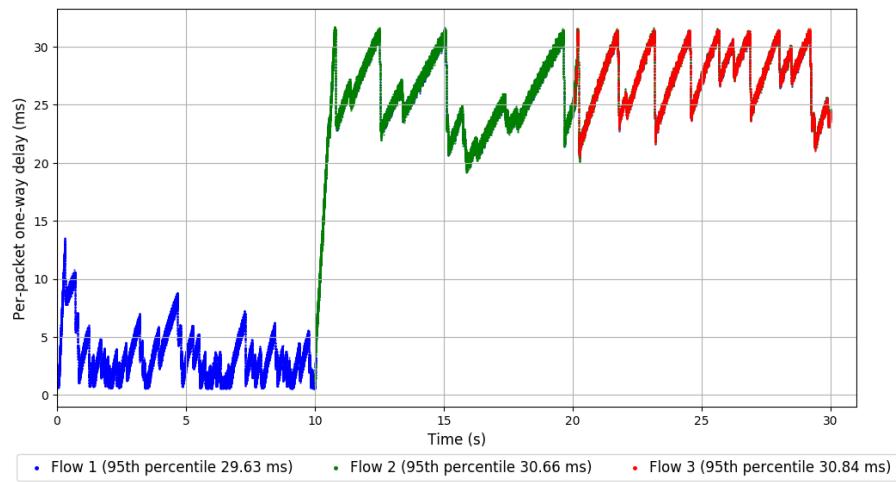
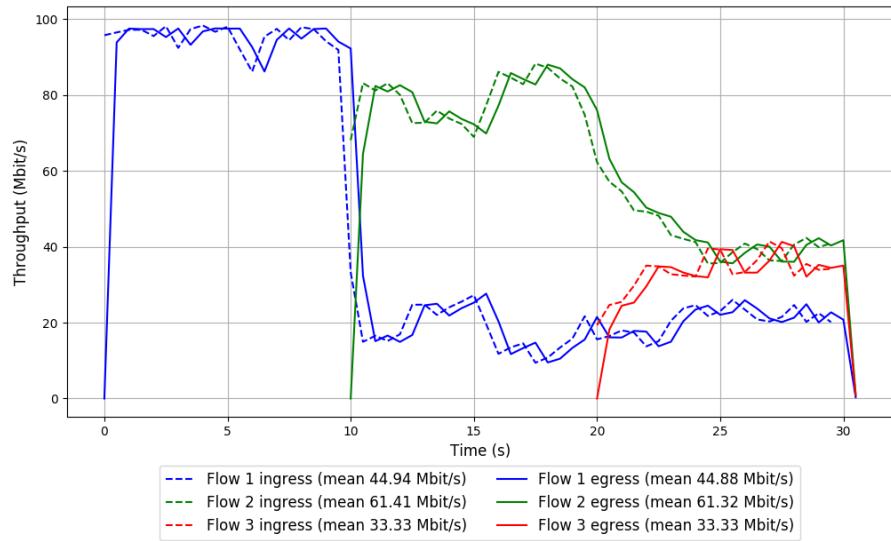


Run 5: Statistics of TCP Cubic

```
Start at: 2019-03-19 04:20:09
End at: 2019-03-19 04:20:39
Local clock offset: -2.906 ms
Remote clock offset: 0.694 ms

# Below is generated by plot.py at 2019-03-19 04:33:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.82 Mbit/s
95th percentile per-packet one-way delay: 30.473 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 44.88 Mbit/s
95th percentile per-packet one-way delay: 29.626 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 61.32 Mbit/s
95th percentile per-packet one-way delay: 30.659 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 33.33 Mbit/s
95th percentile per-packet one-way delay: 30.842 ms
Loss rate: 0.03%
```

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

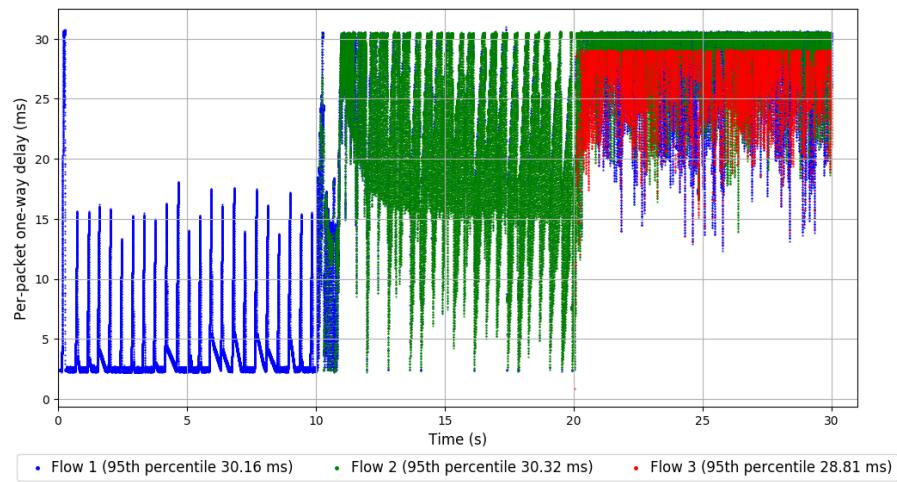
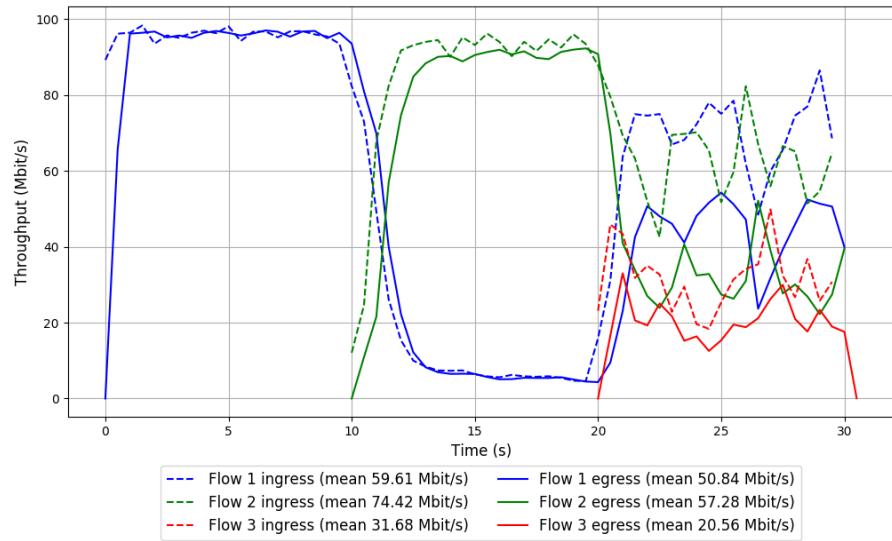


```
Run 1: Statistics of FillP

Start at: 2019-03-19 02:46:48
End at: 2019-03-19 02:47:18
Local clock offset: -5.284 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2019-03-19 04:34:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 30.256 ms
Loss rate: 19.86%
-- Flow 1:
Average throughput: 50.84 Mbit/s
95th percentile per-packet one-way delay: 30.157 ms
Loss rate: 14.63%
-- Flow 2:
Average throughput: 57.28 Mbit/s
95th percentile per-packet one-way delay: 30.321 ms
Loss rate: 22.94%
-- Flow 3:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 28.813 ms
Loss rate: 34.99%
```

## Run 1: Report of FillP — Data Link

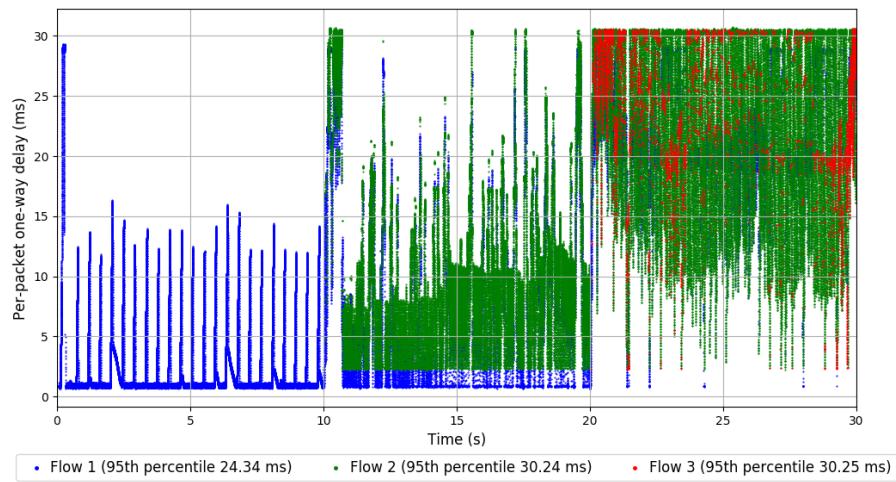
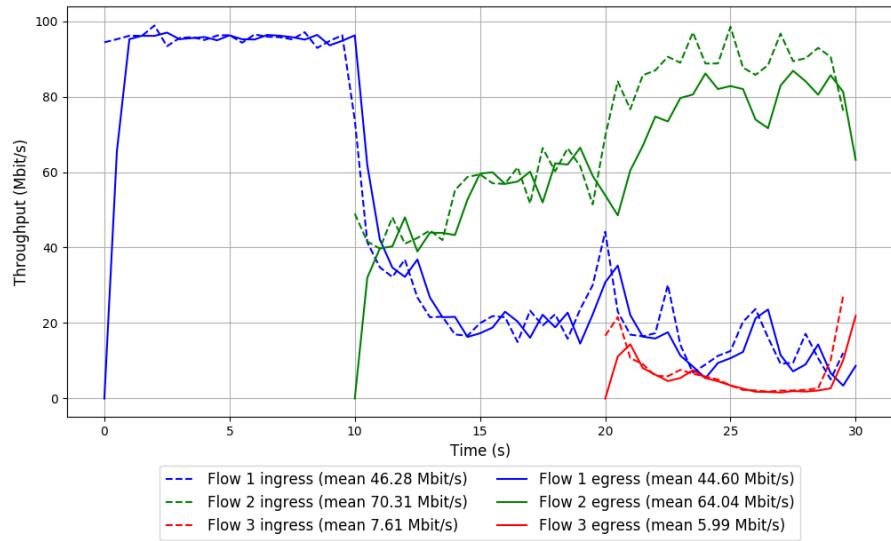


Run 2: Statistics of FillP

```
Start at: 2019-03-19 03:10:43
End at: 2019-03-19 03:11:13
Local clock offset: -4.939 ms
Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2019-03-19 04:34:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 30.115 ms
Loss rate: 6.60%
-- Flow 1:
Average throughput: 44.60 Mbit/s
95th percentile per-packet one-way delay: 24.343 ms
Loss rate: 3.56%
-- Flow 2:
Average throughput: 64.04 Mbit/s
95th percentile per-packet one-way delay: 30.244 ms
Loss rate: 8.83%
-- Flow 3:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 30.250 ms
Loss rate: 21.05%
```

## Run 2: Report of FillP — Data Link

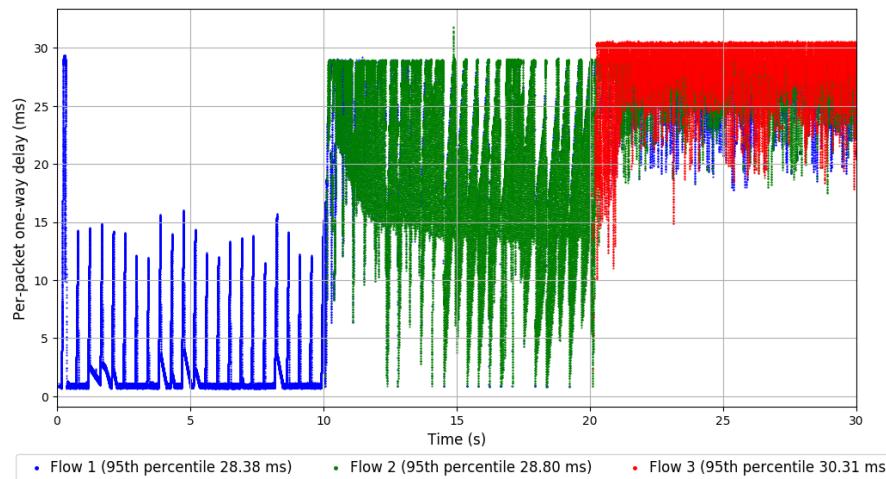
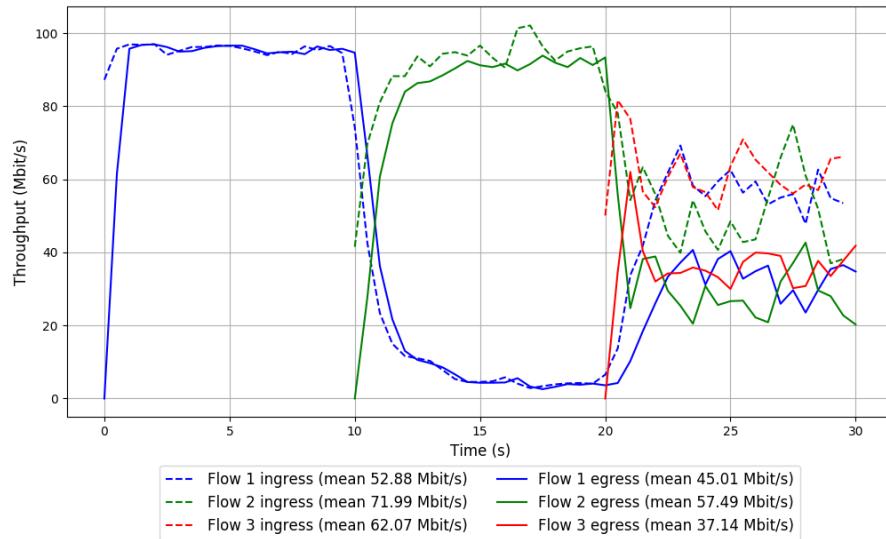


Run 3: Statistics of FillP

```
Start at: 2019-03-19 03:34:37
End at: 2019-03-19 03:35:07
Local clock offset: -0.851 ms
Remote clock offset: 0.365 ms

# Below is generated by plot.py at 2019-03-19 04:34:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 29.005 ms
Loss rate: 21.17%
-- Flow 1:
Average throughput: 45.01 Mbit/s
95th percentile per-packet one-way delay: 28.377 ms
Loss rate: 14.82%
-- Flow 2:
Average throughput: 57.49 Mbit/s
95th percentile per-packet one-way delay: 28.795 ms
Loss rate: 20.05%
-- Flow 3:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 30.311 ms
Loss rate: 40.09%
```

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

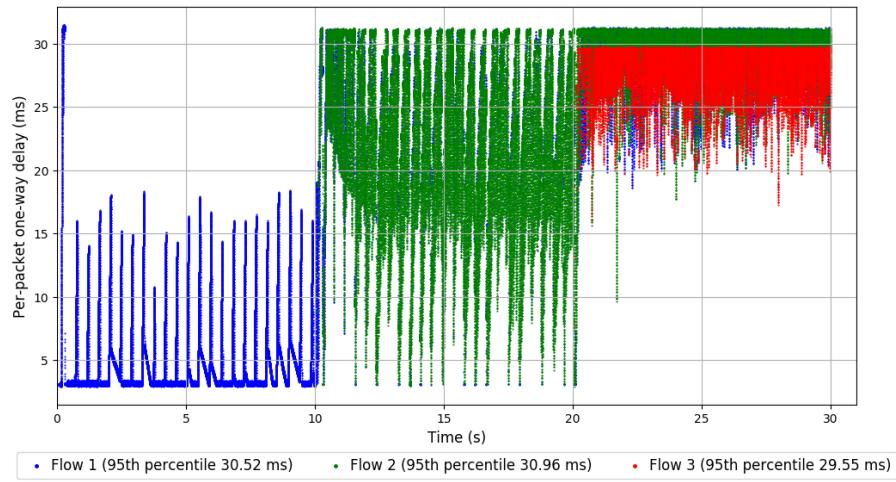
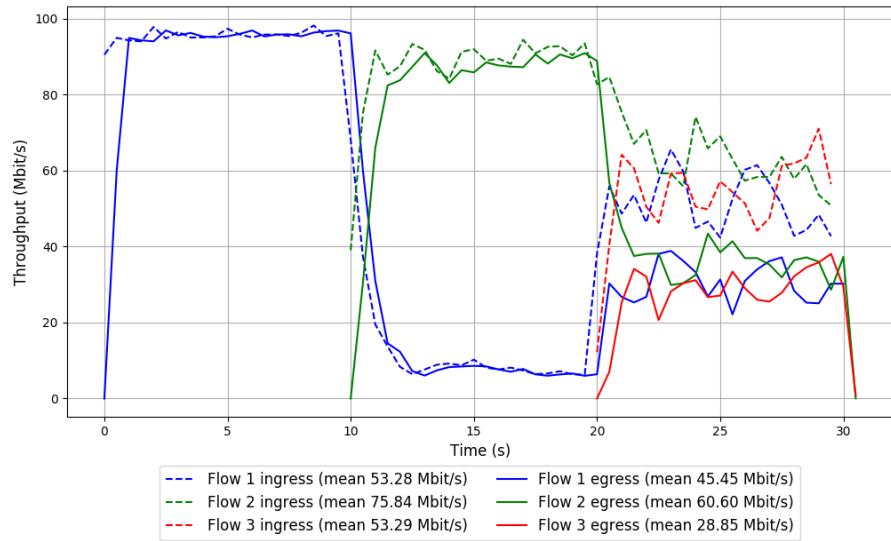


Run 4: Statistics of FillP

```
Start at: 2019-03-19 03:58:32
End at: 2019-03-19 03:59:02
Local clock offset: -1.735 ms
Remote clock offset: 0.559 ms

# Below is generated by plot.py at 2019-03-19 04:34:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 30.859 ms
Loss rate: 21.41%
-- Flow 1:
Average throughput: 45.45 Mbit/s
95th percentile per-packet one-way delay: 30.517 ms
Loss rate: 14.64%
-- Flow 2:
Average throughput: 60.60 Mbit/s
95th percentile per-packet one-way delay: 30.965 ms
Loss rate: 19.99%
-- Flow 3:
Average throughput: 28.85 Mbit/s
95th percentile per-packet one-way delay: 29.551 ms
Loss rate: 45.81%
```

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

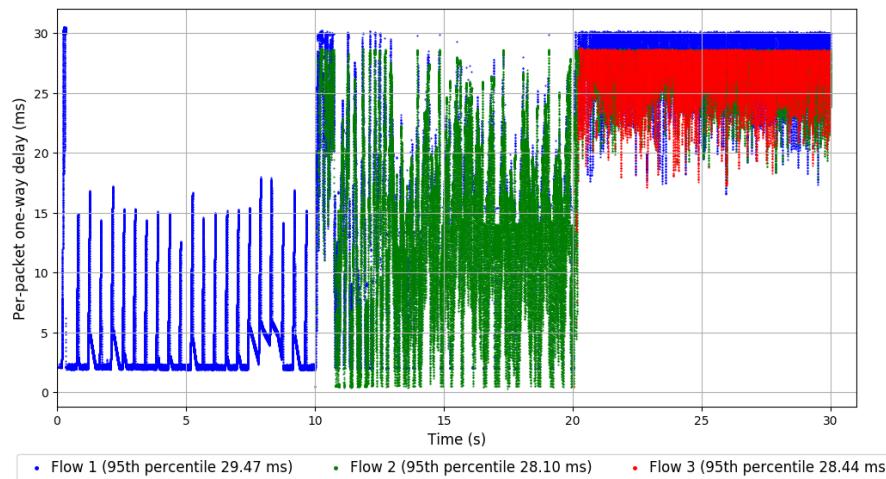
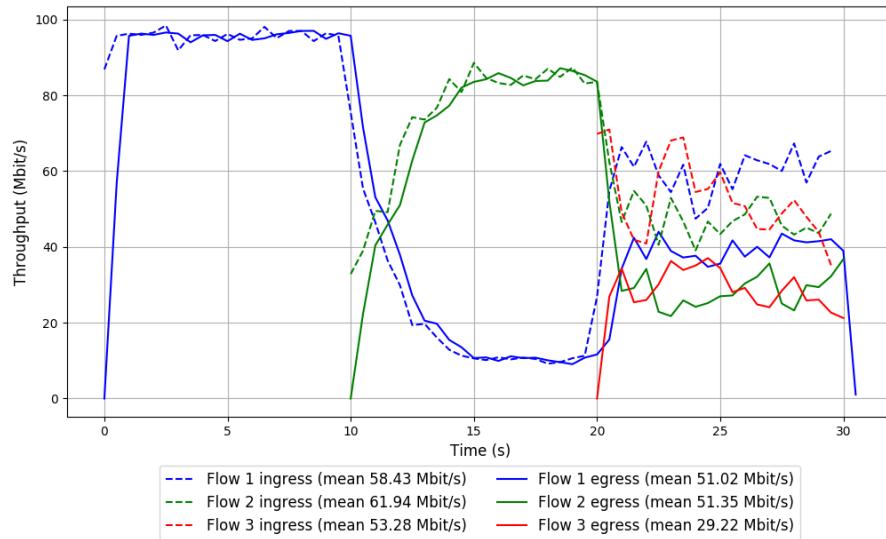


Run 5: Statistics of FillP

```
Start at: 2019-03-19 04:22:27
End at: 2019-03-19 04:22:57
Local clock offset: -3.758 ms
Remote clock offset: 0.628 ms

# Below is generated by plot.py at 2019-03-19 04:34:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 28.715 ms
Loss rate: 19.03%
-- Flow 1:
Average throughput: 51.02 Mbit/s
95th percentile per-packet one-way delay: 29.471 ms
Loss rate: 12.60%
-- Flow 2:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 28.098 ms
Loss rate: 17.01%
-- Flow 3:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 28.440 ms
Loss rate: 45.03%
```

## Run 5: Report of FillP — Data Link

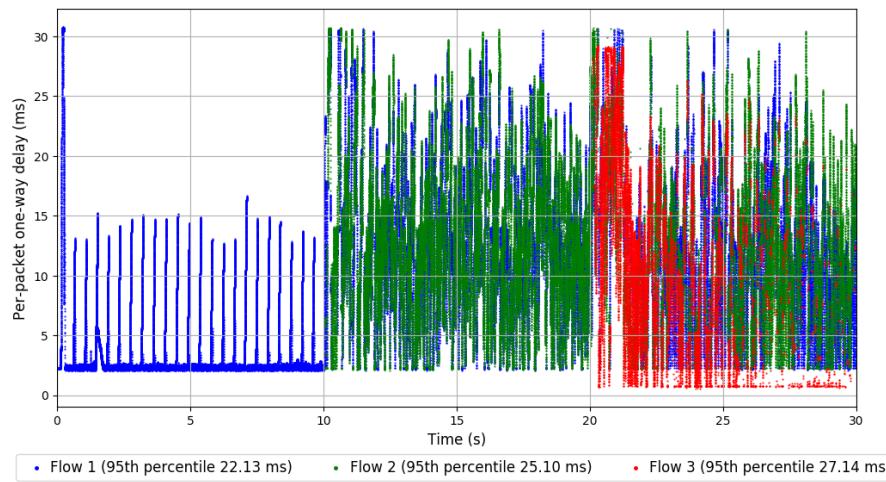
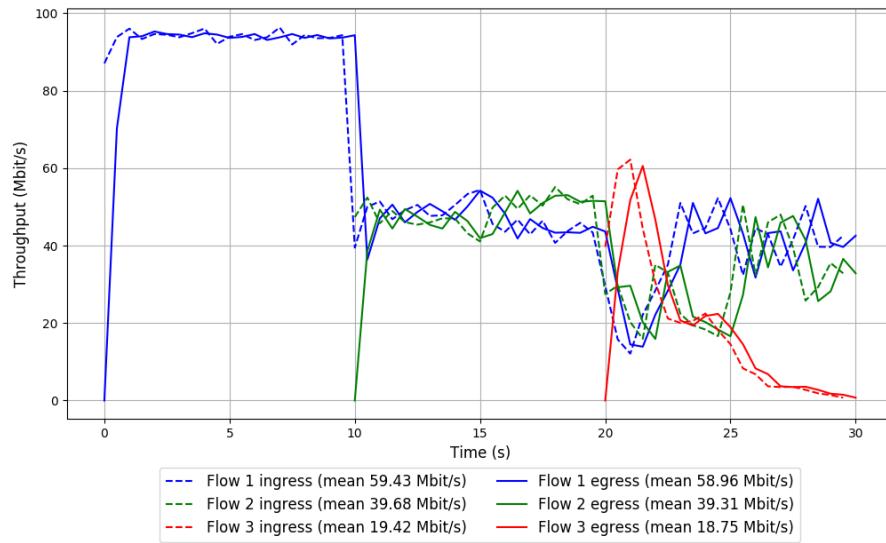


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-03-19 02:30:47
End at: 2019-03-19 02:31:17
Local clock offset: -5.421 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-03-19 04:34:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 23.781 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 58.96 Mbit/s
95th percentile per-packet one-way delay: 22.131 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 25.096 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 18.75 Mbit/s
95th percentile per-packet one-way delay: 27.135 ms
Loss rate: 3.49%
```

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

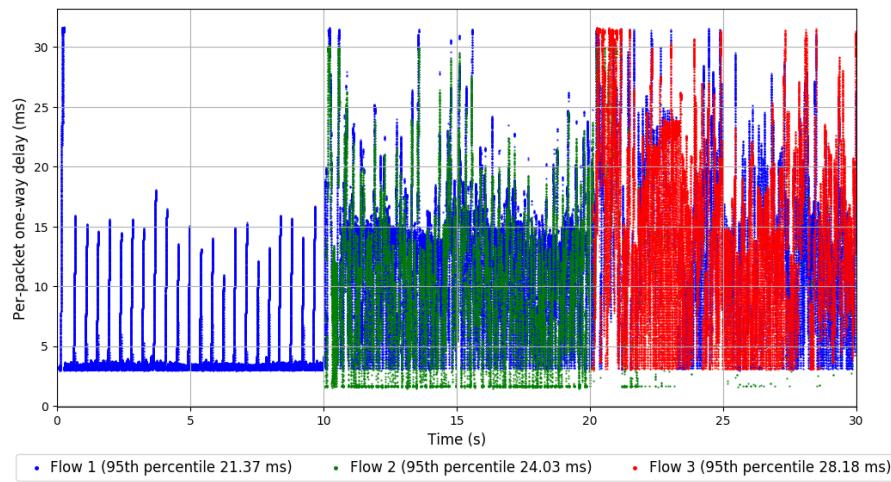
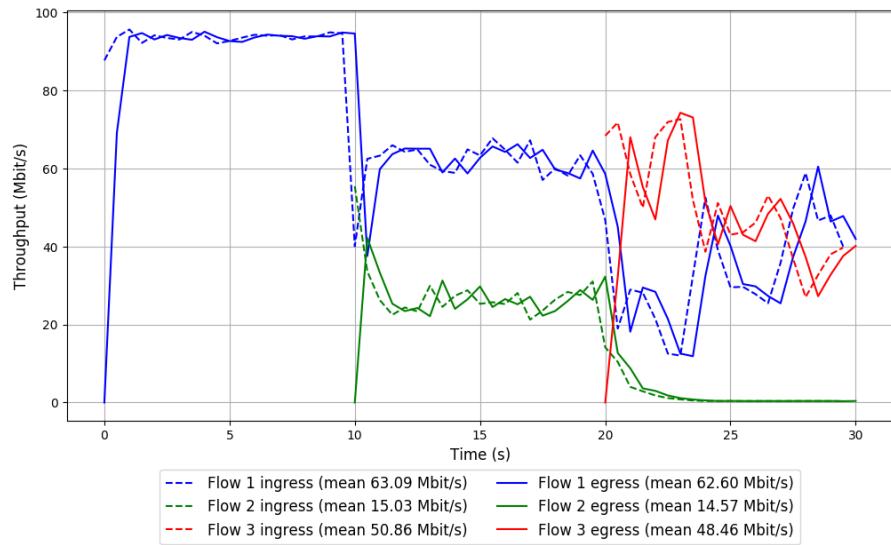


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-03-19 02:54:43
End at: 2019-03-19 02:55:13
Local clock offset: -5.855 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2019-03-19 04:35:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.40 Mbit/s
95th percentile per-packet one-way delay: 23.631 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 62.60 Mbit/s
95th percentile per-packet one-way delay: 21.373 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 14.57 Mbit/s
95th percentile per-packet one-way delay: 24.027 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 48.46 Mbit/s
95th percentile per-packet one-way delay: 28.177 ms
Loss rate: 4.48%
```

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

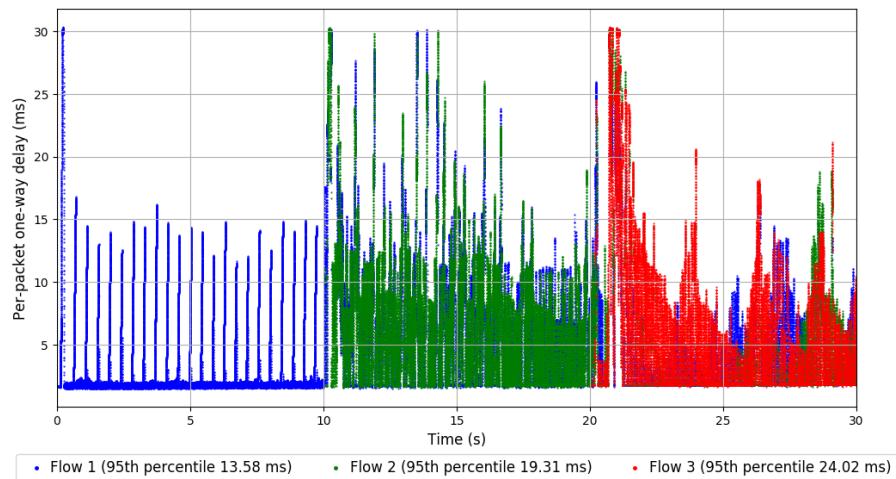
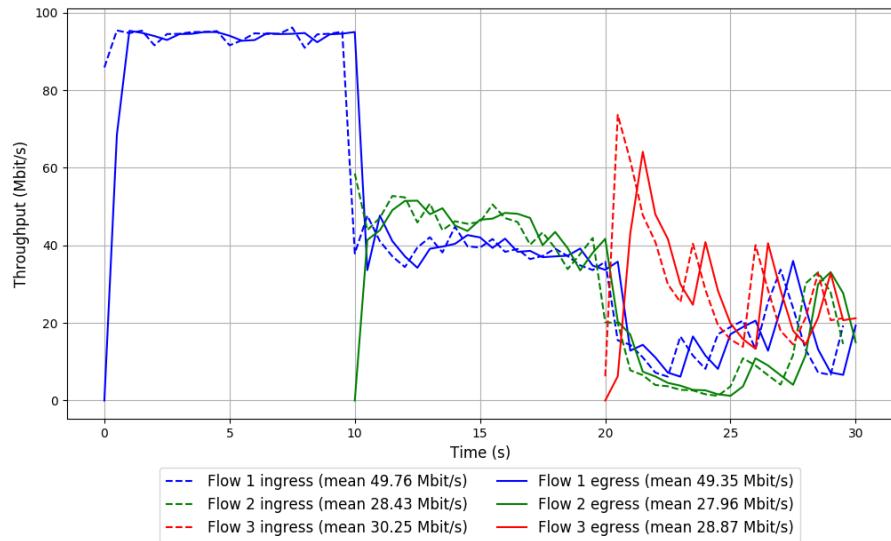


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-03-19 03:18:37
End at: 2019-03-19 03:19:07
Local clock offset: -4.704 ms
Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2019-03-19 04:35:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.50 Mbit/s
95th percentile per-packet one-way delay: 16.503 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 49.35 Mbit/s
95th percentile per-packet one-way delay: 13.576 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 19.311 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 28.87 Mbit/s
95th percentile per-packet one-way delay: 24.025 ms
Loss rate: 4.54%
```

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

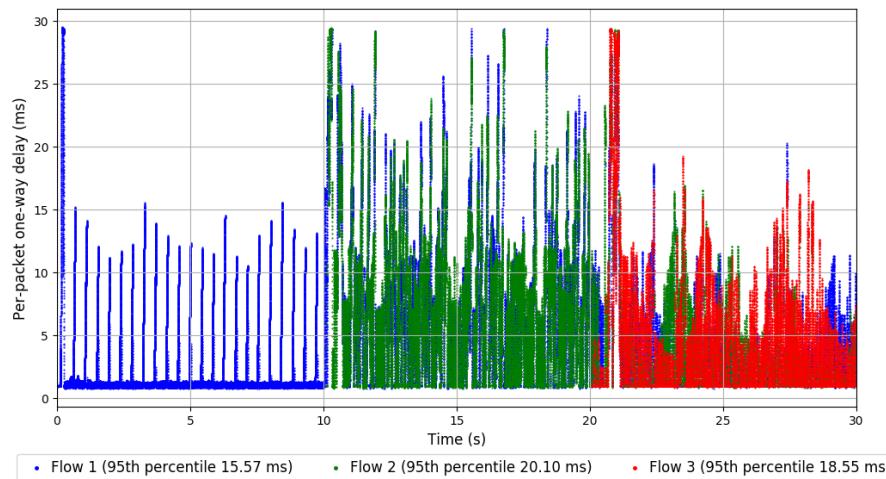
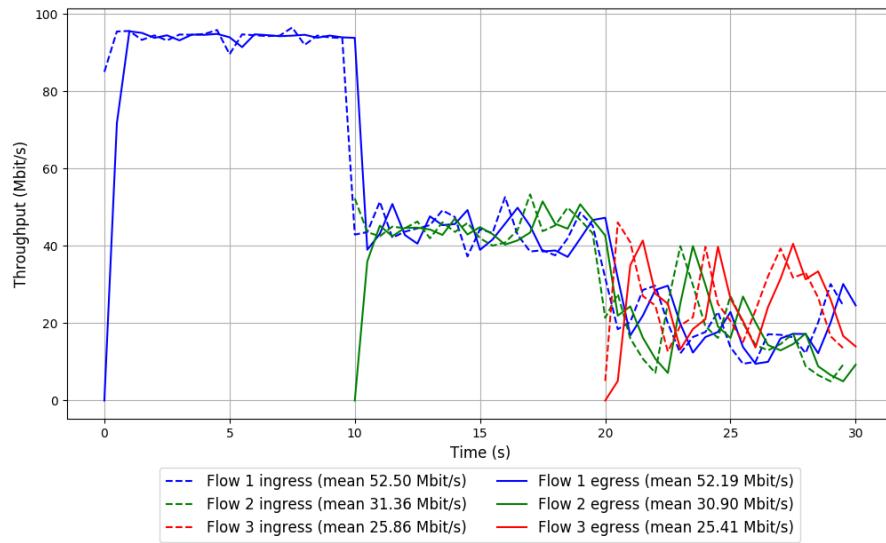


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-03-19 03:42:32
End at: 2019-03-19 03:43:02
Local clock offset: -0.194 ms
Remote clock offset: 0.516 ms

# Below is generated by plot.py at 2019-03-19 04:35:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.17 Mbit/s
95th percentile per-packet one-way delay: 17.306 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 52.19 Mbit/s
95th percentile per-packet one-way delay: 15.567 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 30.90 Mbit/s
95th percentile per-packet one-way delay: 20.096 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 25.41 Mbit/s
95th percentile per-packet one-way delay: 18.553 ms
Loss rate: 1.75%
```

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

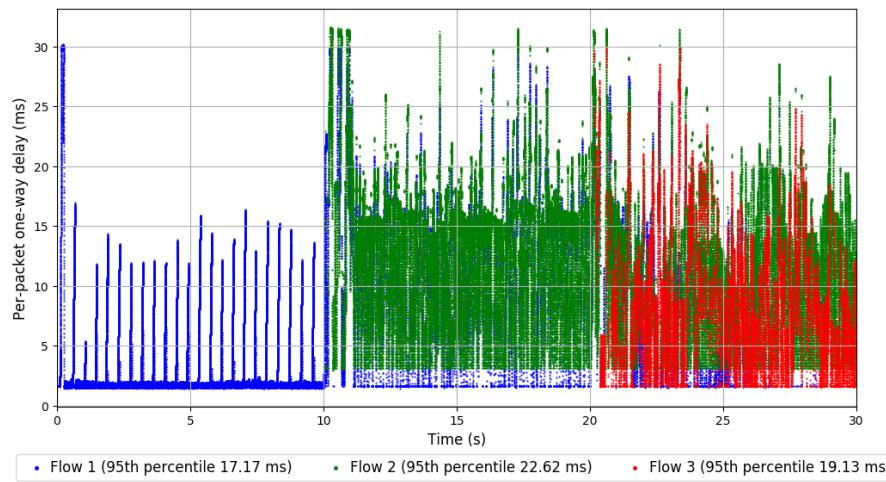
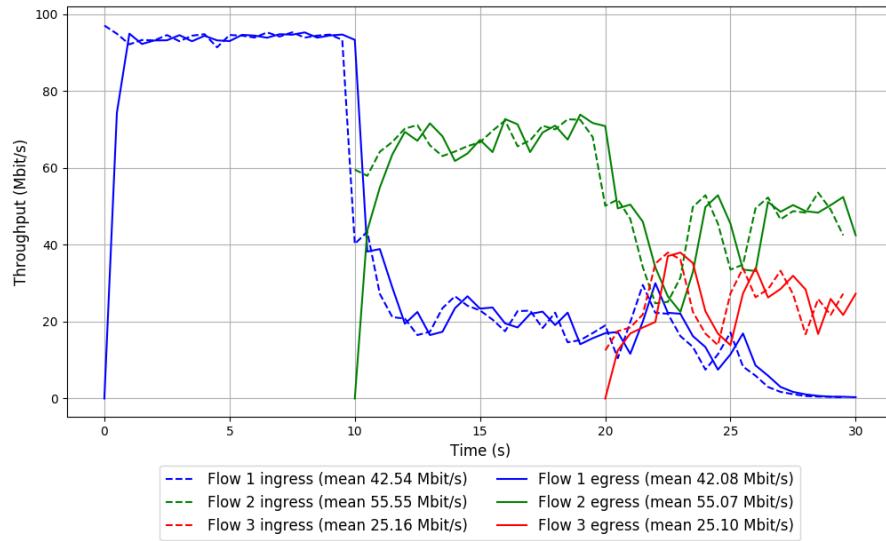


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-03-19 04:06:27
End at: 2019-03-19 04:06:57
Local clock offset: -1.798 ms
Remote clock offset: 0.636 ms

# Below is generated by plot.py at 2019-03-19 04:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.02 Mbit/s
95th percentile per-packet one-way delay: 20.744 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 42.08 Mbit/s
95th percentile per-packet one-way delay: 17.174 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 22.625 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 25.10 Mbit/s
95th percentile per-packet one-way delay: 19.131 ms
Loss rate: 0.28%
```

Run 5: Report of FillP-Sheep — Data Link

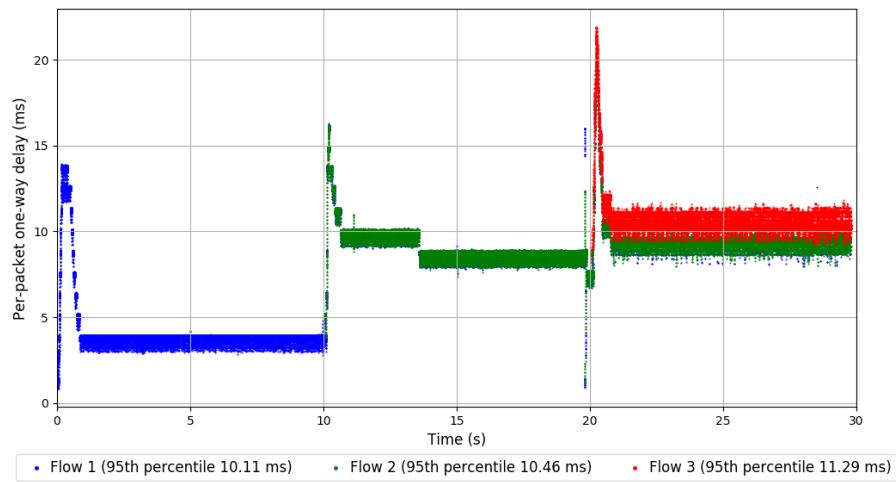
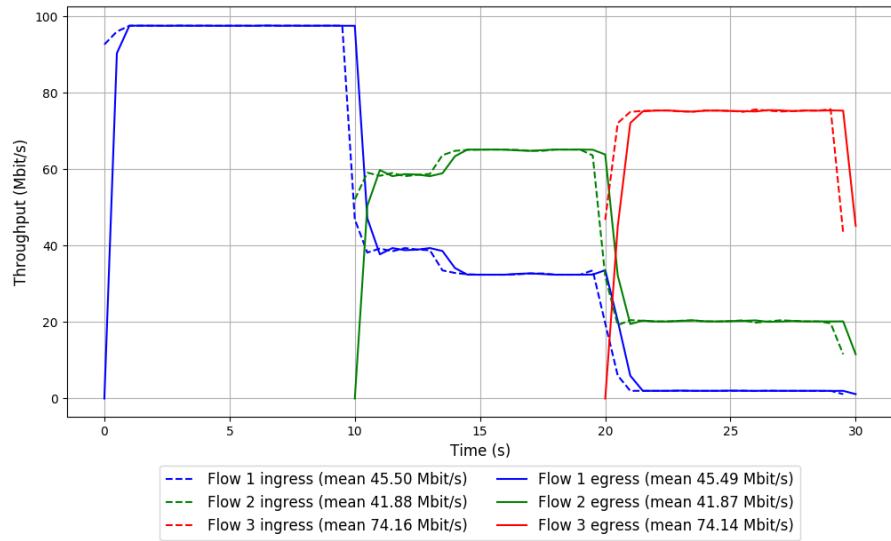


Run 1: Statistics of Indigo

```
Start at: 2019-03-19 02:33:07
End at: 2019-03-19 02:33:37
Local clock offset: -5.354 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-03-19 04:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 11.125 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.49 Mbit/s
95th percentile per-packet one-way delay: 10.107 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.87 Mbit/s
95th percentile per-packet one-way delay: 10.459 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.14 Mbit/s
95th percentile per-packet one-way delay: 11.295 ms
Loss rate: 0.00%
```

## Run 1: Report of Indigo — Data Link

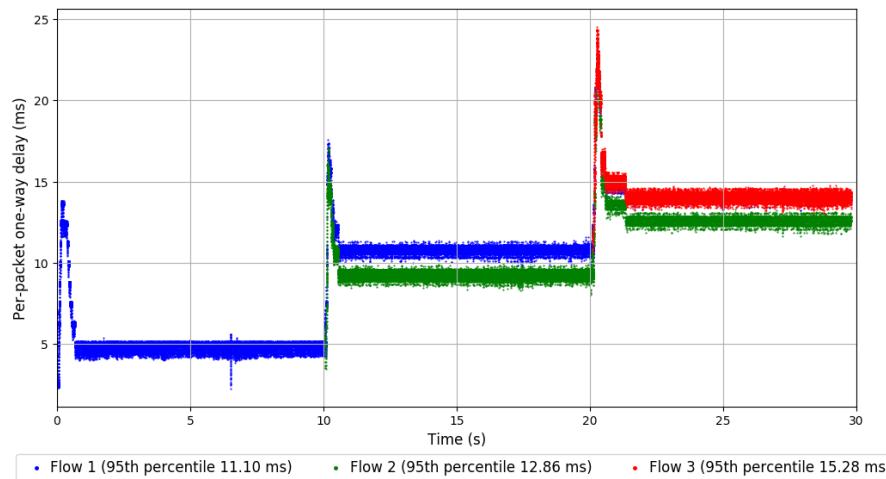
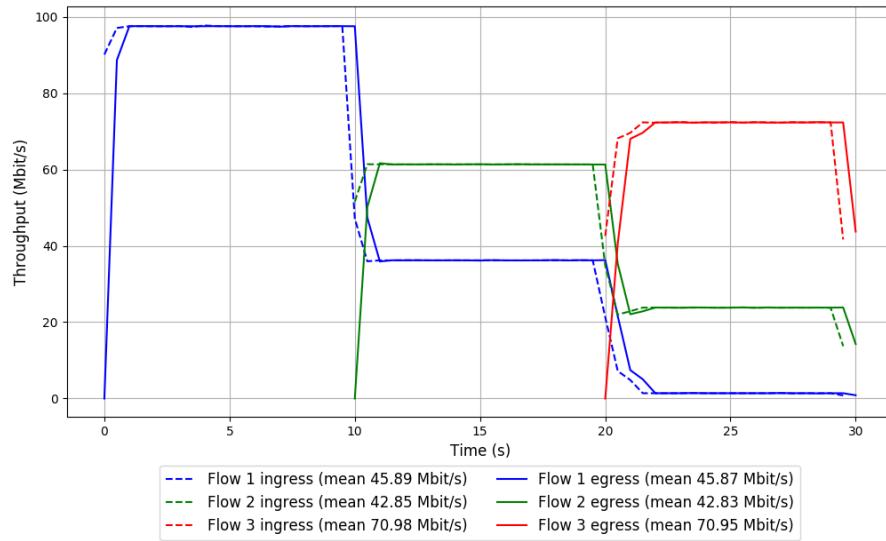


Run 2: Statistics of Indigo

```
Start at: 2019-03-19 02:57:02
End at: 2019-03-19 02:57:32
Local clock offset: -4.986 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2019-03-19 04:35:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 14.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.87 Mbit/s
95th percentile per-packet one-way delay: 11.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.83 Mbit/s
95th percentile per-packet one-way delay: 12.862 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.95 Mbit/s
95th percentile per-packet one-way delay: 15.276 ms
Loss rate: 0.00%
```

## Run 2: Report of Indigo — Data Link

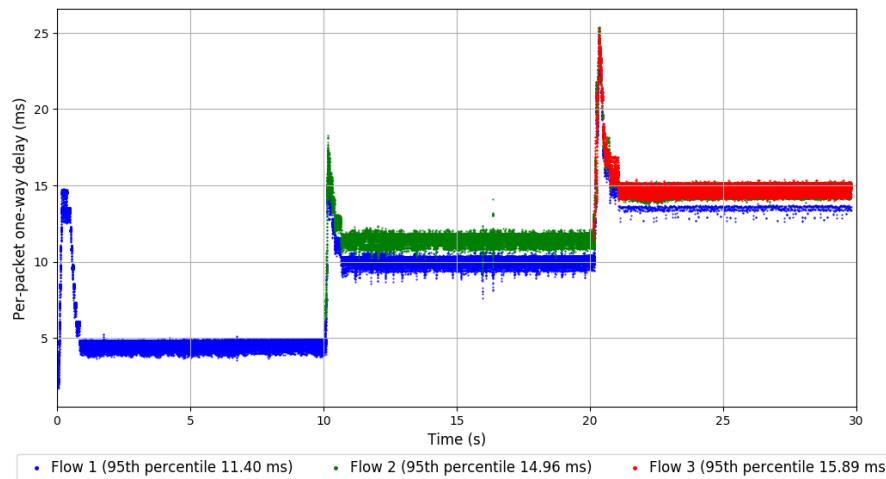
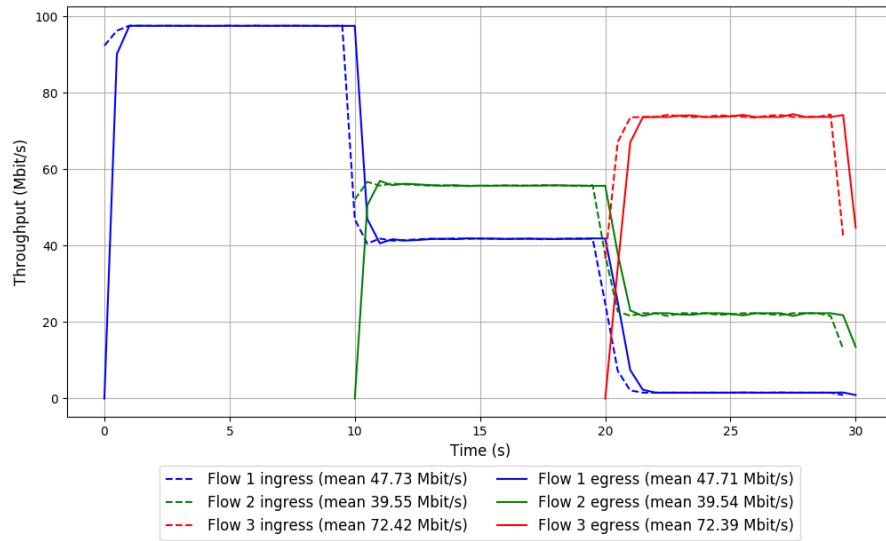


Run 3: Statistics of Indigo

```
Start at: 2019-03-19 03:20:56
End at: 2019-03-19 03:21:26
Local clock offset: -3.953 ms
Remote clock offset: 0.402 ms

# Below is generated by plot.py at 2019-03-19 04:35:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 14.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.71 Mbit/s
95th percentile per-packet one-way delay: 11.398 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 14.958 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.39 Mbit/s
95th percentile per-packet one-way delay: 15.888 ms
Loss rate: 0.00%
```

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

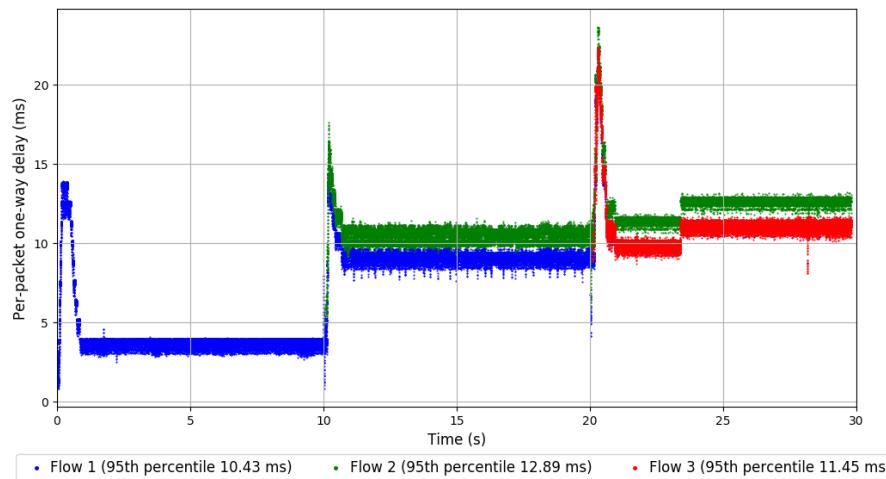
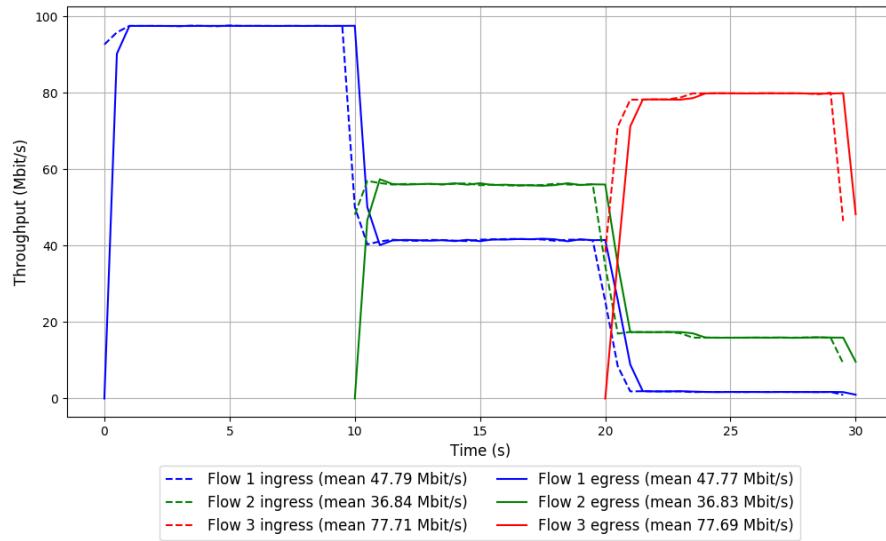


Run 4: Statistics of Indigo

```
Start at: 2019-03-19 03:44:50
End at: 2019-03-19 03:45:20
Local clock offset: 0.033 ms
Remote clock offset: 0.535 ms

# Below is generated by plot.py at 2019-03-19 04:35:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 12.617 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.77 Mbit/s
95th percentile per-packet one-way delay: 10.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.83 Mbit/s
95th percentile per-packet one-way delay: 12.891 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.69 Mbit/s
95th percentile per-packet one-way delay: 11.445 ms
Loss rate: 0.00%
```

## Run 4: Report of Indigo — Data Link

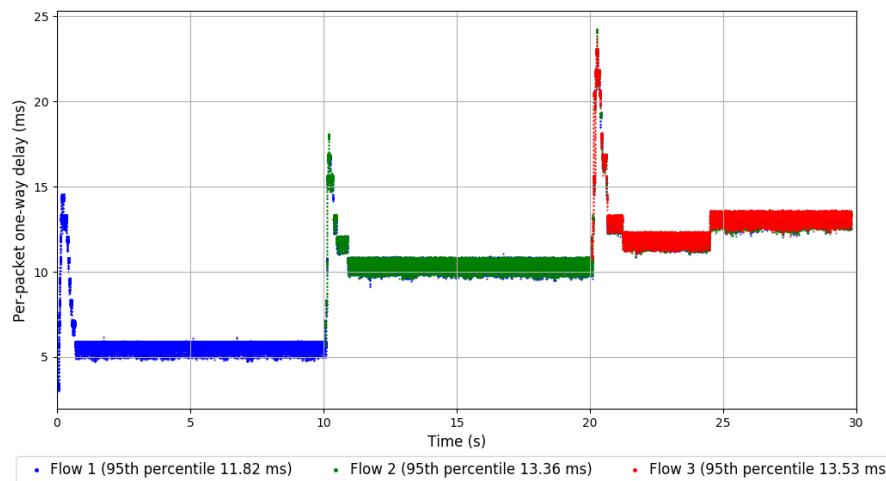
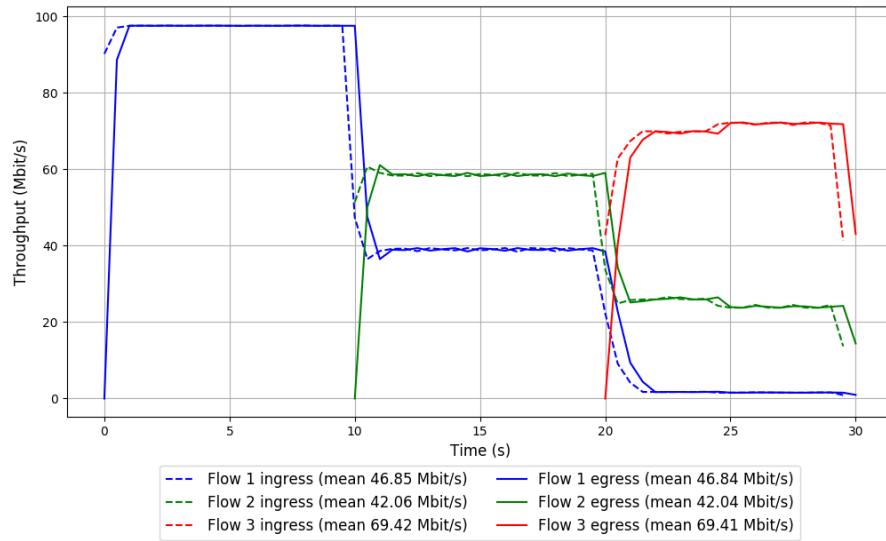


Run 5: Statistics of Indigo

```
Start at: 2019-03-19 04:08:46
End at: 2019-03-19 04:09:16
Local clock offset: -1.708 ms
Remote clock offset: 0.644 ms

# Below is generated by plot.py at 2019-03-19 04:36:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 13.367 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.84 Mbit/s
95th percentile per-packet one-way delay: 11.822 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.04 Mbit/s
95th percentile per-packet one-way delay: 13.362 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.41 Mbit/s
95th percentile per-packet one-way delay: 13.534 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo — Data Link

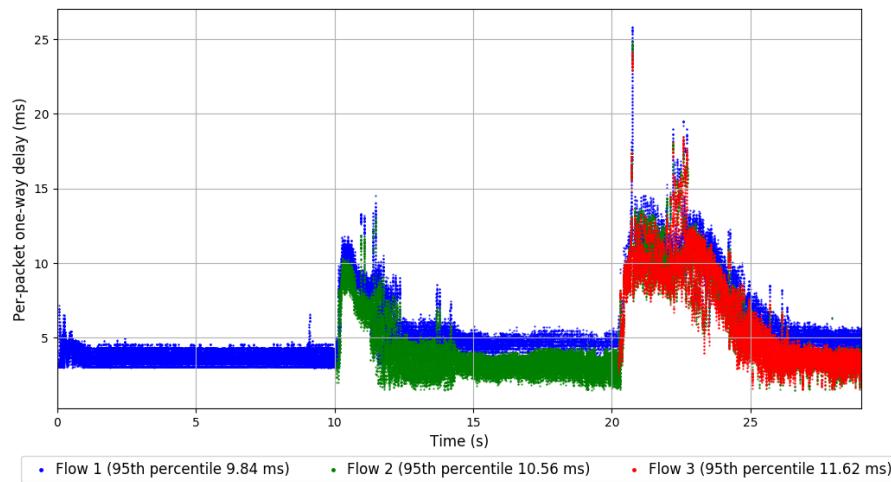
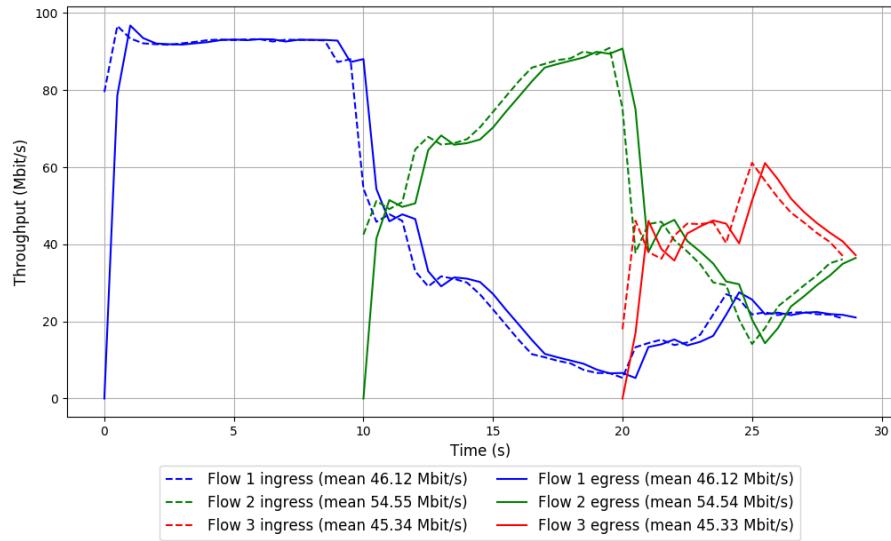


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 02:45:39
End at: 2019-03-19 02:46:09
Local clock offset: -5.982 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-03-19 04:36:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 10.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 9.838 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.54 Mbit/s
95th percentile per-packet one-way delay: 10.557 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.33 Mbit/s
95th percentile per-packet one-way delay: 11.625 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link

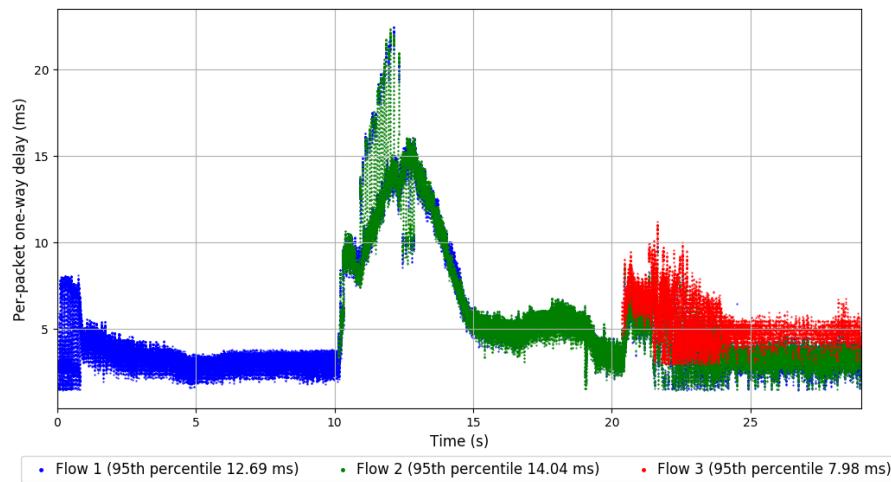
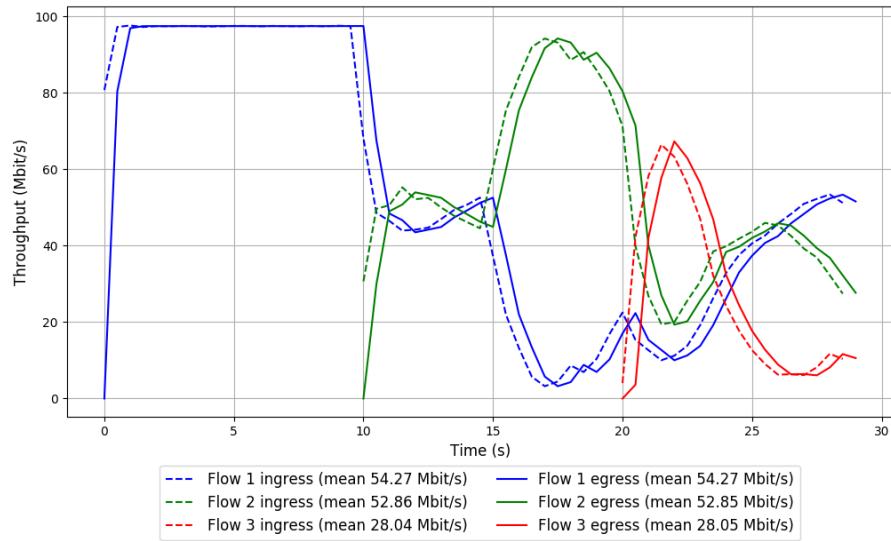


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 03:09:34
End at: 2019-03-19 03:10:04
Local clock offset: -5.703 ms
Remote clock offset: 0.206 ms

# Below is generated by plot.py at 2019-03-19 04:36:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.98 Mbit/s
95th percentile per-packet one-way delay: 13.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.27 Mbit/s
95th percentile per-packet one-way delay: 12.688 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.85 Mbit/s
95th percentile per-packet one-way delay: 14.036 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 7.981 ms
Loss rate: 0.00%
```

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

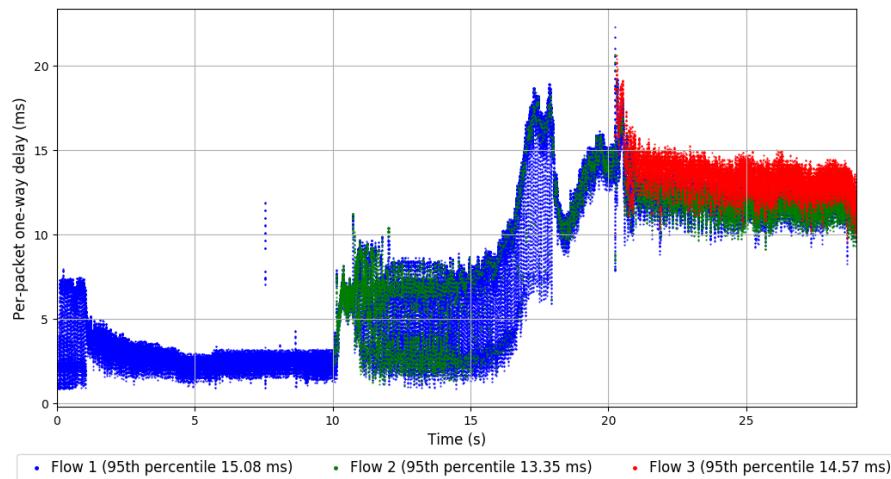
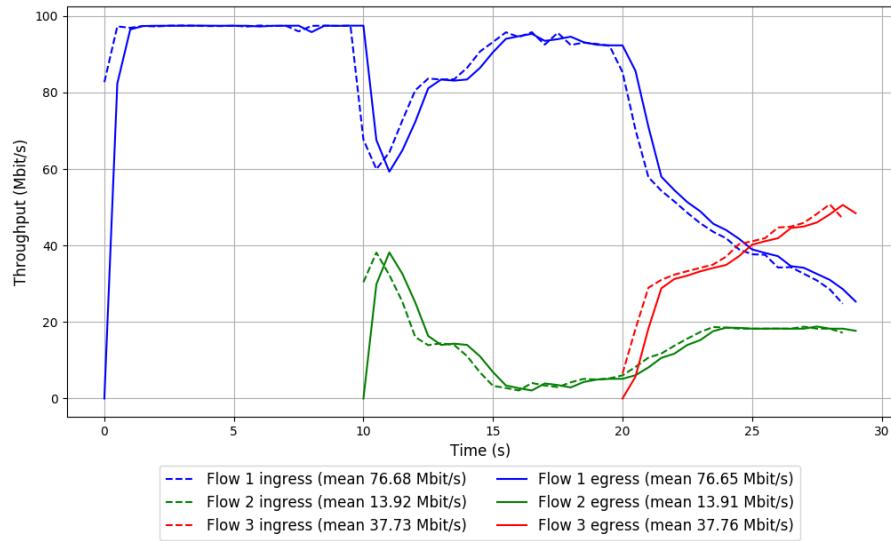


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 03:33:28
End at: 2019-03-19 03:38:58
Local clock offset: -0.993 ms
Remote clock offset: 0.378 ms

# Below is generated by plot.py at 2019-03-19 04:36:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 14.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 15.080 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.91 Mbit/s
95th percentile per-packet one-way delay: 13.346 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 14.570 ms
Loss rate: 0.00%
```

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

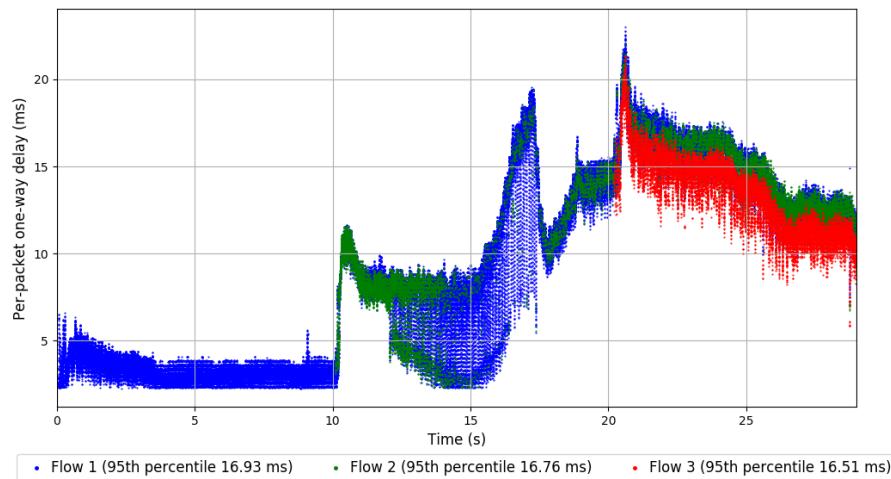
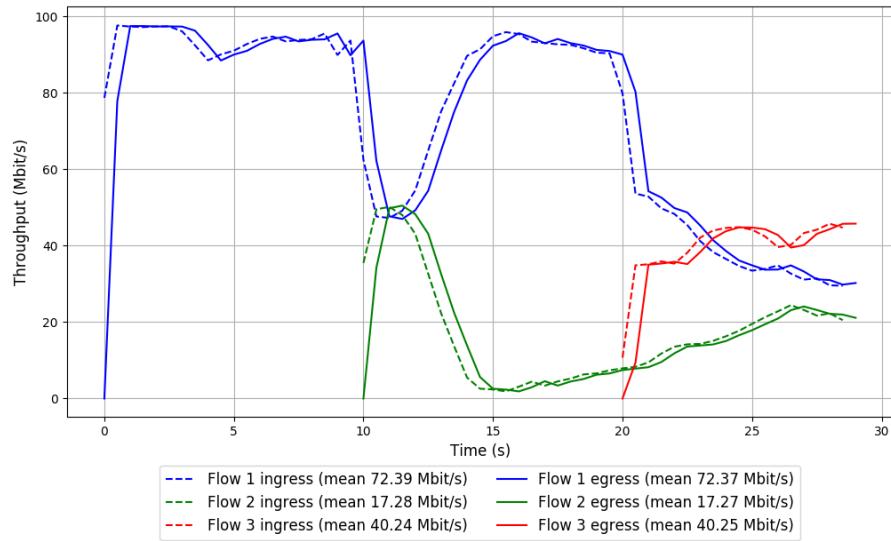


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 03:57:23
End at: 2019-03-19 03:57:53
Local clock offset: -0.954 ms
Remote clock offset: 0.524 ms

# Below is generated by plot.py at 2019-03-19 04:36:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 16.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.37 Mbit/s
95th percentile per-packet one-way delay: 16.935 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.27 Mbit/s
95th percentile per-packet one-way delay: 16.757 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 16.513 ms
Loss rate: 0.01%
```

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

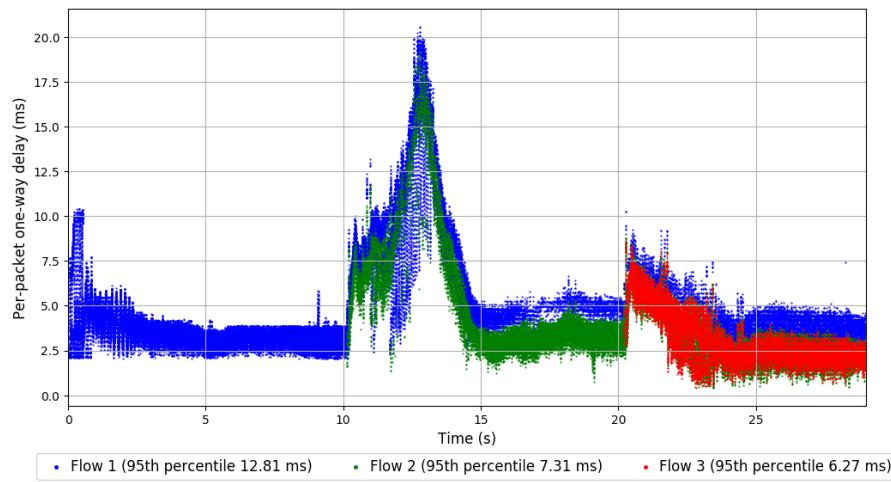
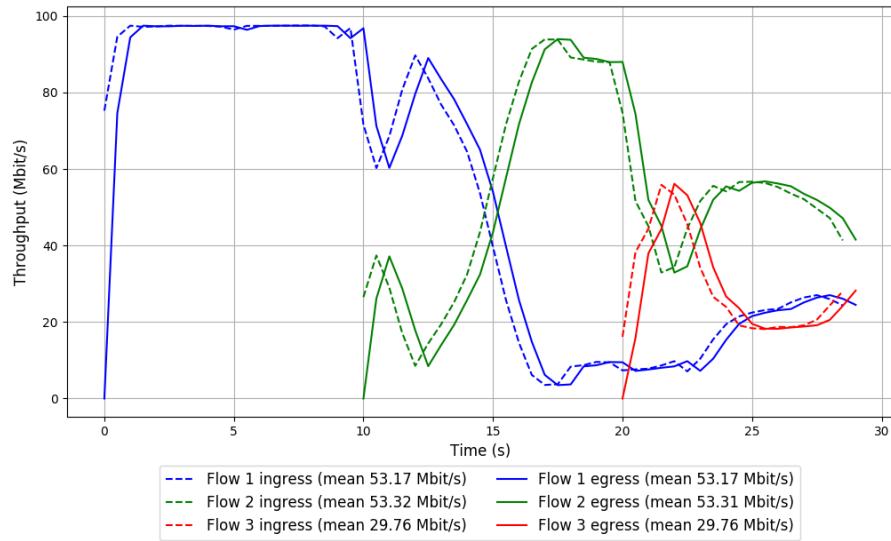


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-03-19 04:21:18
End at: 2019-03-19 04:21:48
Local clock offset: -3.41 ms
Remote clock offset: 0.597 ms

# Below is generated by plot.py at 2019-03-19 04:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 10.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.17 Mbit/s
95th percentile per-packet one-way delay: 12.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 53.31 Mbit/s
95th percentile per-packet one-way delay: 7.308 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.76 Mbit/s
95th percentile per-packet one-way delay: 6.272 ms
Loss rate: 0.00%
```

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

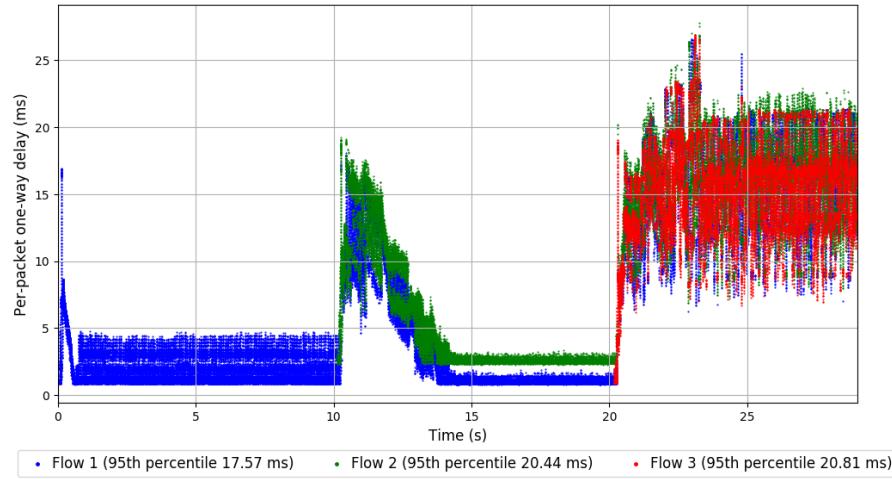
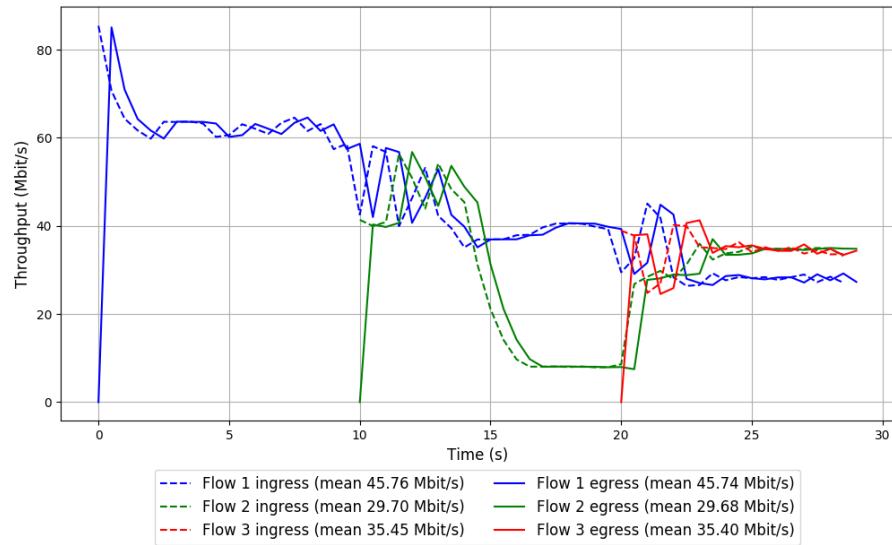


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 02:47:57
End at: 2019-03-19 02:48:27
Local clock offset: -5.161 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2019-03-19 04:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 19.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.74 Mbit/s
95th percentile per-packet one-way delay: 17.575 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 20.441 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.40 Mbit/s
95th percentile per-packet one-way delay: 20.807 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC5 — Data Link

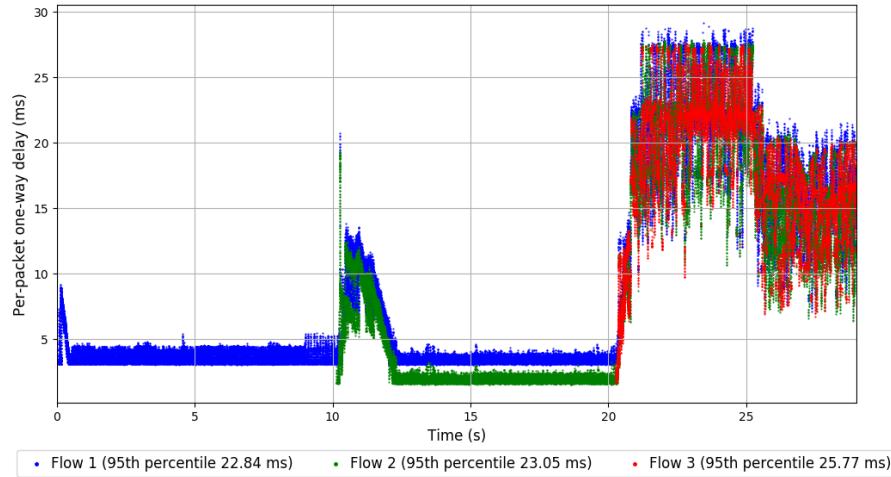
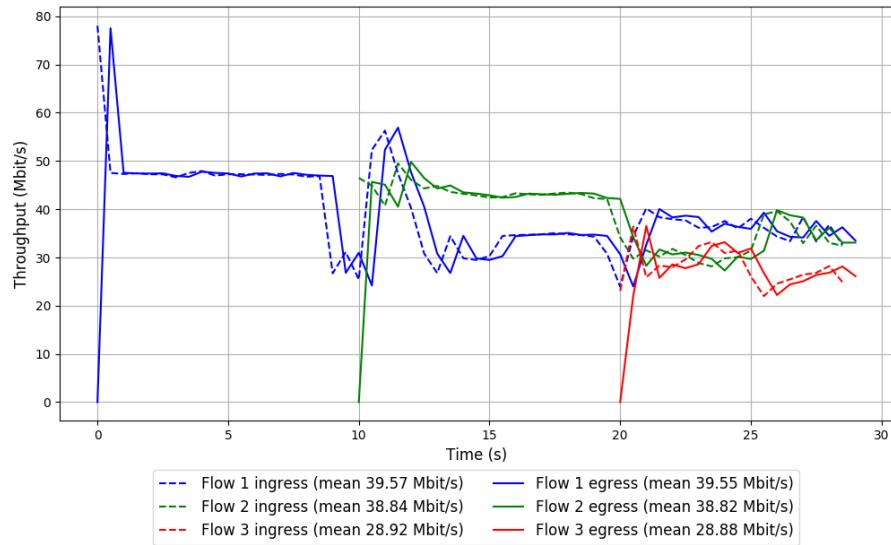


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 03:11:52
End at: 2019-03-19 03:12:22
Local clock offset: -5.759 ms
Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2019-03-19 04:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.47 Mbit/s
95th percentile per-packet one-way delay: 23.526 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.55 Mbit/s
95th percentile per-packet one-way delay: 22.841 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 23.047 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 25.769 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC5 — Data Link

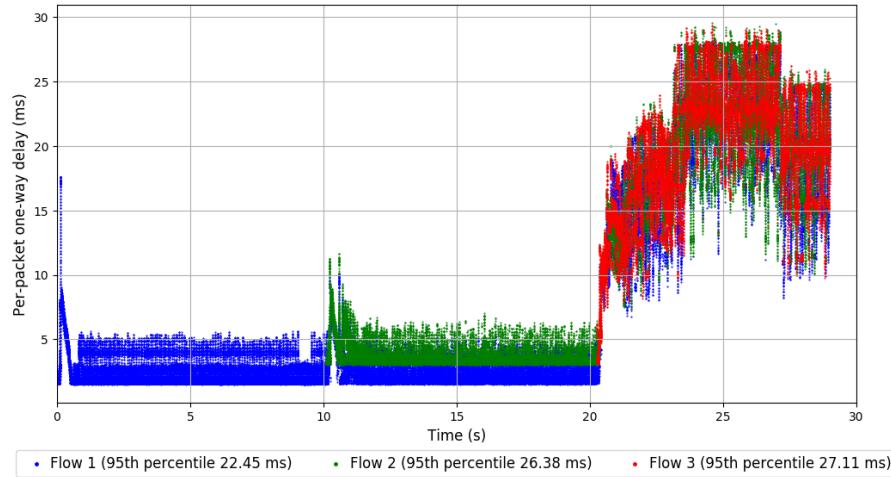
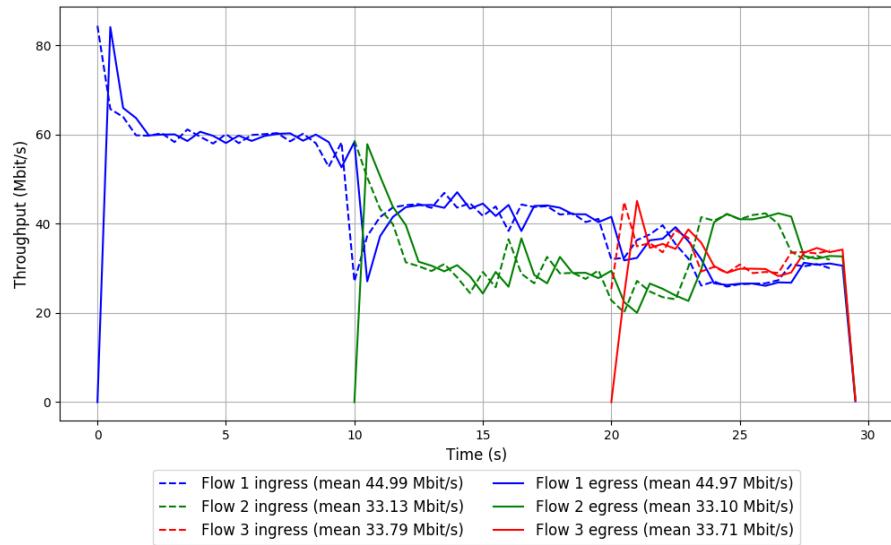


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 03:35:46
End at: 2019-03-19 03:36:16
Local clock offset: -1.447 ms
Remote clock offset: 0.371 ms

# Below is generated by plot.py at 2019-03-19 04:37:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.74 Mbit/s
95th percentile per-packet one-way delay: 24.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 22.450 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.10 Mbit/s
95th percentile per-packet one-way delay: 26.375 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.71 Mbit/s
95th percentile per-packet one-way delay: 27.106 ms
Loss rate: 0.00%
```

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

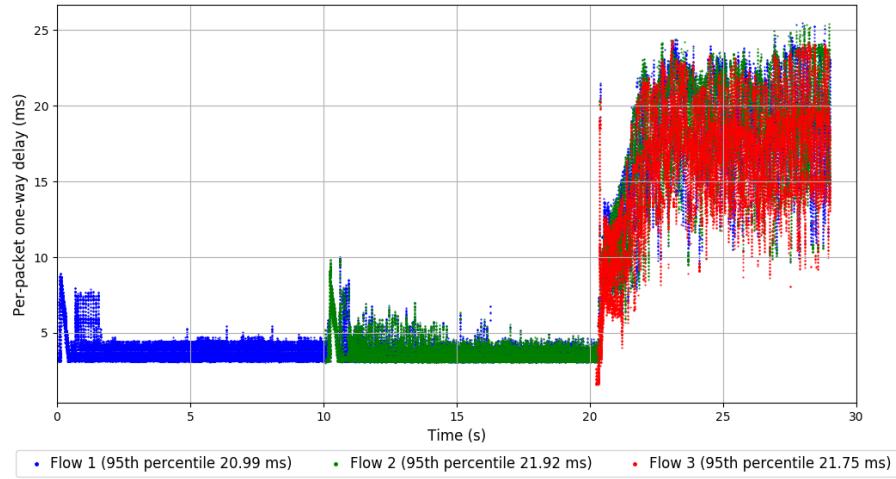
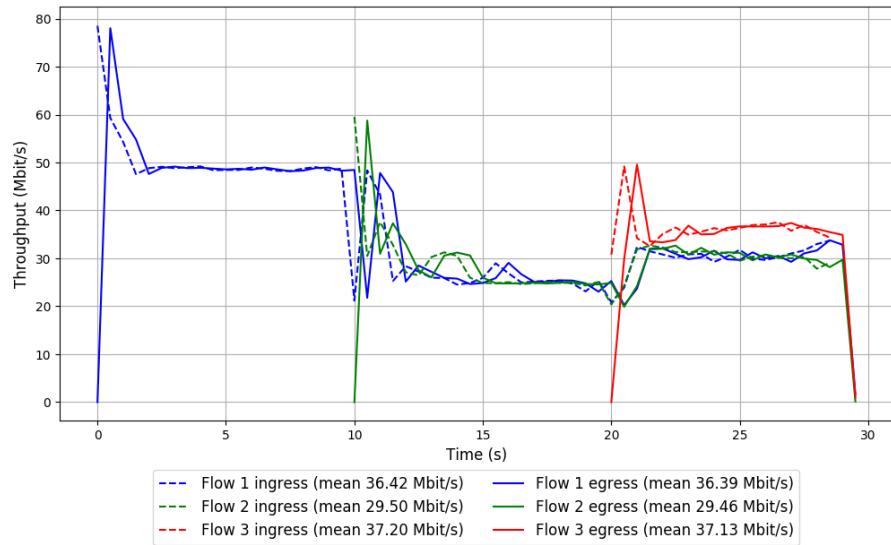


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 03:59:41
End at: 2019-03-19 04:00:11
Local clock offset: -1.705 ms
Remote clock offset: 0.635 ms

# Below is generated by plot.py at 2019-03-19 04:37:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.84 Mbit/s
95th percentile per-packet one-way delay: 21.525 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 20.987 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.46 Mbit/s
95th percentile per-packet one-way delay: 21.918 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 21.750 ms
Loss rate: 0.00%
```

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

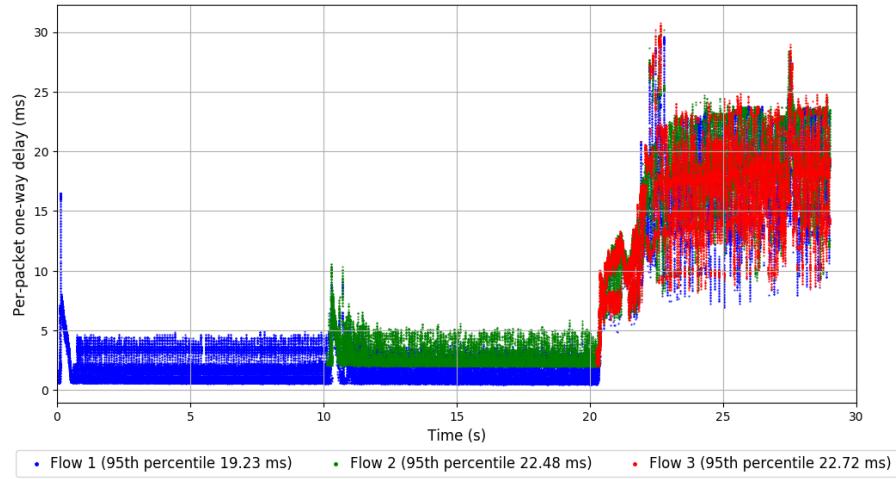
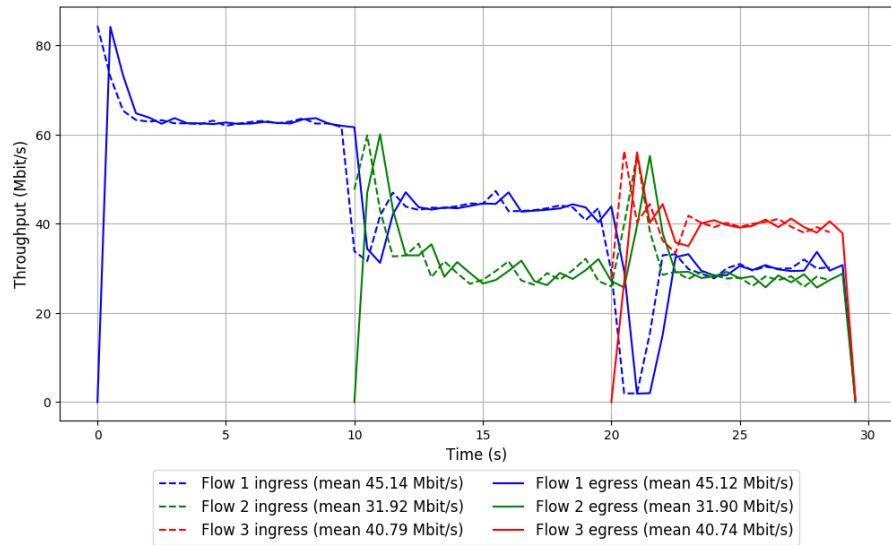


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-03-19 04:23:36
End at: 2019-03-19 04:24:06
Local clock offset: -4.145 ms
Remote clock offset: 0.624 ms

# Below is generated by plot.py at 2019-03-19 04:37:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.21 Mbit/s
95th percentile per-packet one-way delay: 21.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.12 Mbit/s
95th percentile per-packet one-way delay: 19.228 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 22.477 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.74 Mbit/s
95th percentile per-packet one-way delay: 22.724 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC5 — Data Link

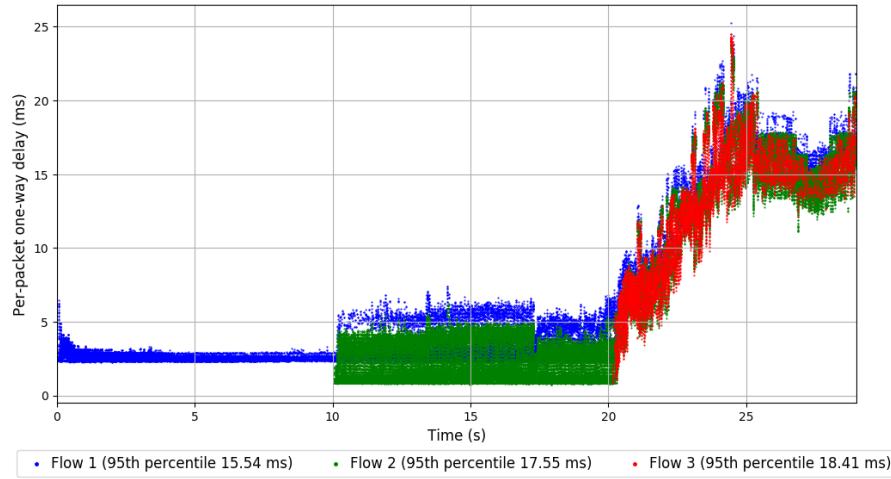
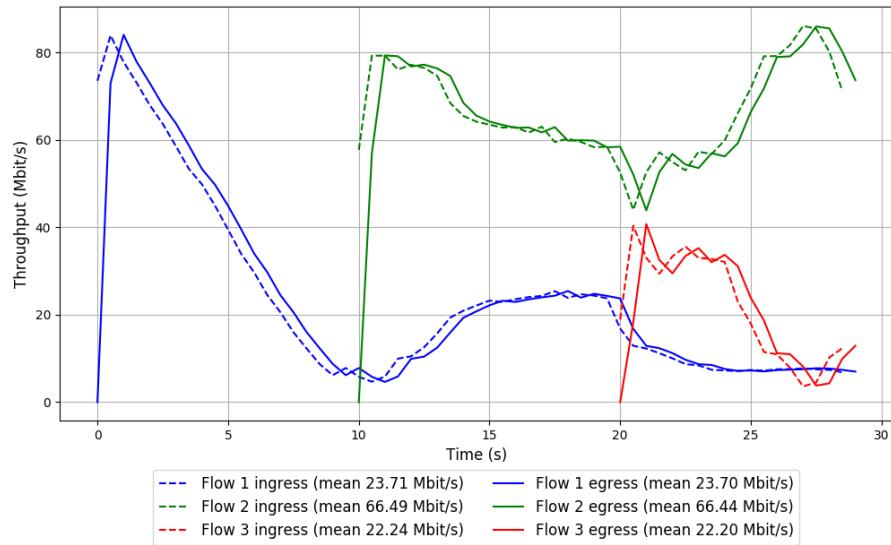


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 02:53:34
End at: 2019-03-19 02:54:04
Local clock offset: -5.031 ms
Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2019-03-19 04:37:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.86 Mbit/s
95th percentile per-packet one-way delay: 17.396 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.70 Mbit/s
95th percentile per-packet one-way delay: 15.537 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.44 Mbit/s
95th percentile per-packet one-way delay: 17.548 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 18.408 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesD — Data Link

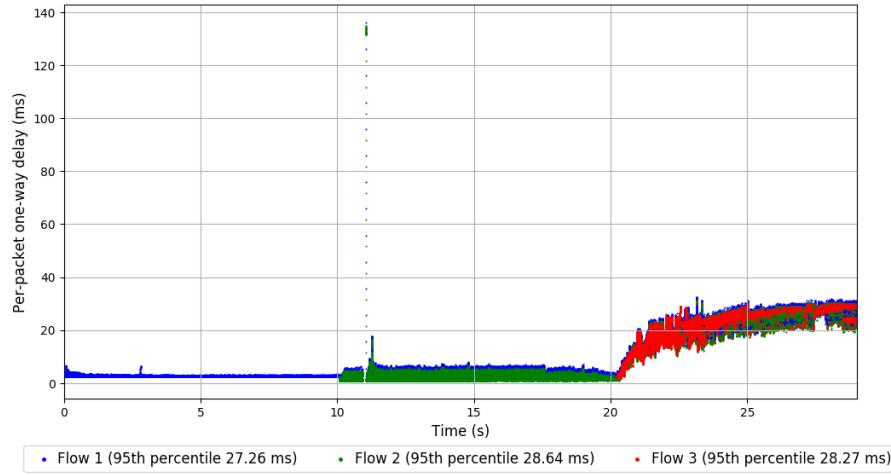
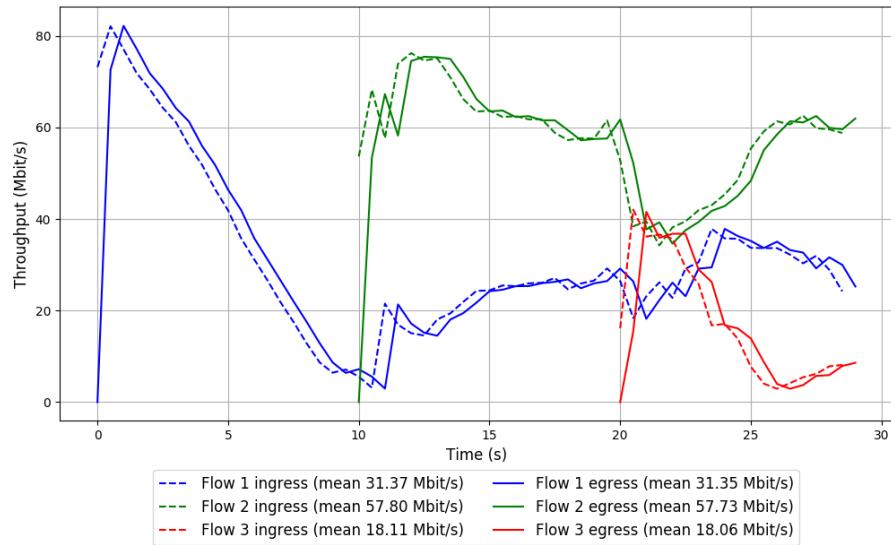


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 03:17:29
End at: 2019-03-19 03:17:59
Local clock offset: -4.334 ms
Remote clock offset: 0.295 ms

# Below is generated by plot.py at 2019-03-19 04:37:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.46 Mbit/s
95th percentile per-packet one-way delay: 28.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 27.263 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.73 Mbit/s
95th percentile per-packet one-way delay: 28.636 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.06 Mbit/s
95th percentile per-packet one-way delay: 28.271 ms
Loss rate: 0.00%
```

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

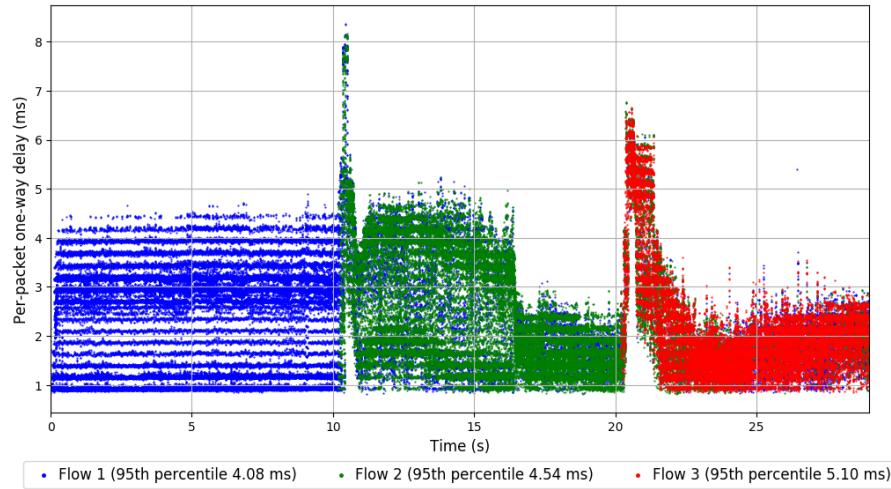
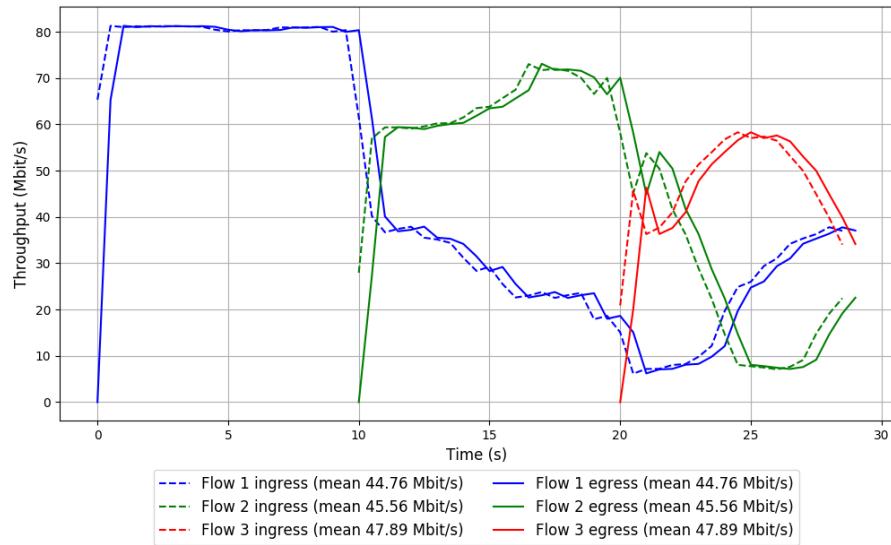


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 03:41:23
End at: 2019-03-19 03:41:53
Local clock offset: -0.197 ms
Remote clock offset: 0.525 ms

# Below is generated by plot.py at 2019-03-19 04:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.87 Mbit/s
95th percentile per-packet one-way delay: 4.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 4.077 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.56 Mbit/s
95th percentile per-packet one-way delay: 4.542 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.89 Mbit/s
95th percentile per-packet one-way delay: 5.102 ms
Loss rate: 0.00%
```

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

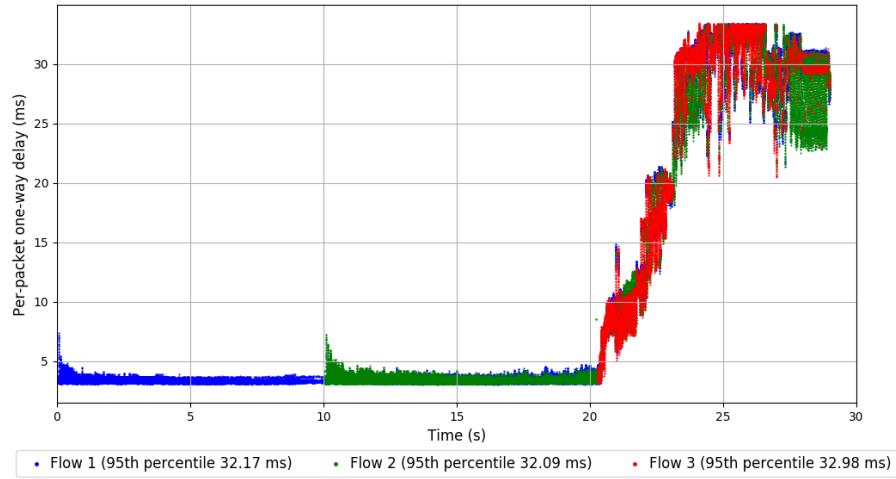
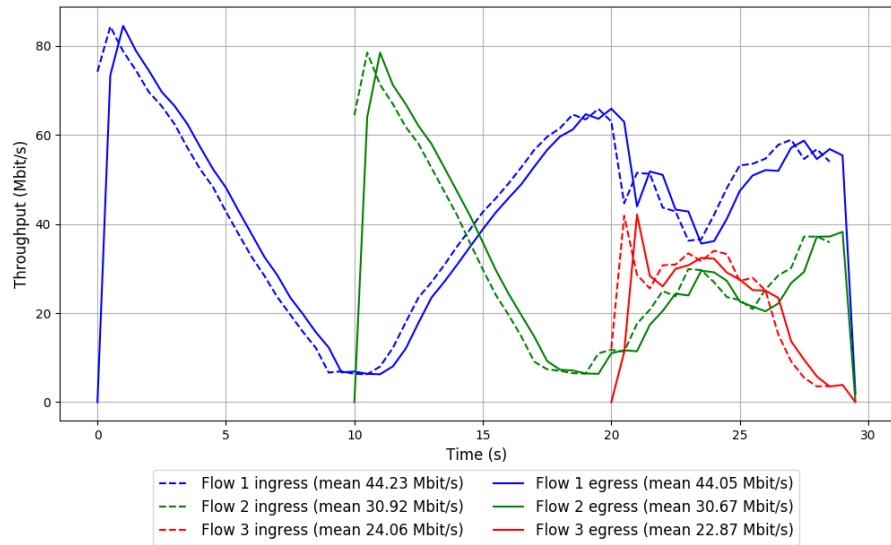


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 04:05:19
End at: 2019-03-19 04:05:49
Local clock offset: -1.739 ms
Remote clock offset: 0.685 ms

# Below is generated by plot.py at 2019-03-19 04:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.00 Mbit/s
95th percentile per-packet one-way delay: 32.323 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 44.05 Mbit/s
95th percentile per-packet one-way delay: 32.167 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 30.67 Mbit/s
95th percentile per-packet one-way delay: 32.090 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 22.87 Mbit/s
95th percentile per-packet one-way delay: 32.980 ms
Loss rate: 4.68%
```

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

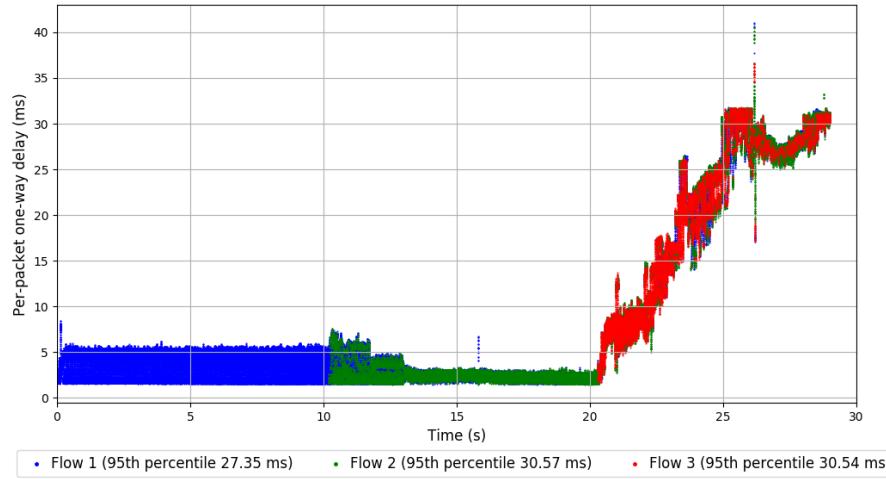
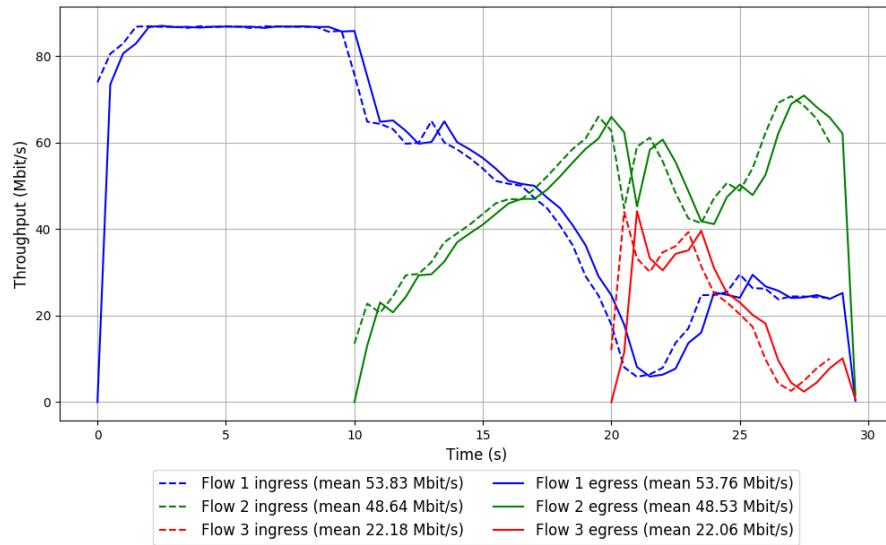


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-03-19 04:29:13
End at: 2019-03-19 04:29:43
Local clock offset: -6.318 ms
Remote clock offset: 0.634 ms

# Below is generated by plot.py at 2019-03-19 04:37:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.87 Mbit/s
95th percentile per-packet one-way delay: 29.512 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 53.76 Mbit/s
95th percentile per-packet one-way delay: 27.354 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 48.53 Mbit/s
95th percentile per-packet one-way delay: 30.573 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 22.06 Mbit/s
95th percentile per-packet one-way delay: 30.542 ms
Loss rate: 0.21%
```

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

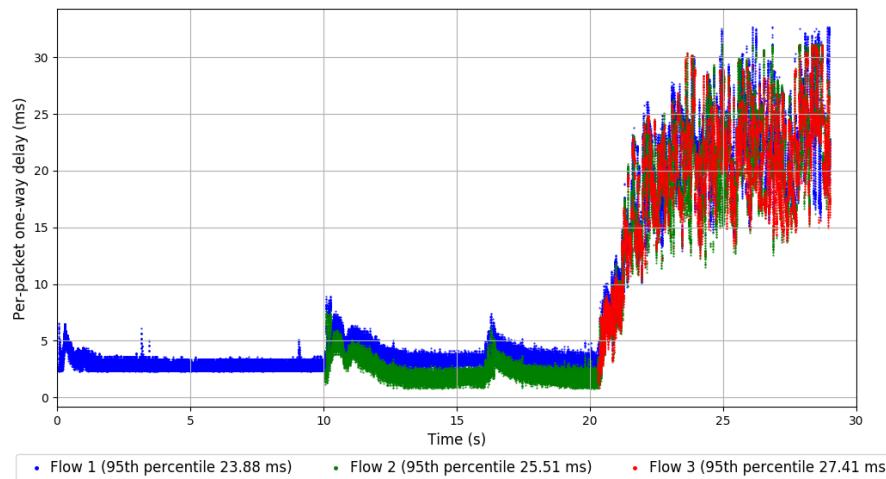
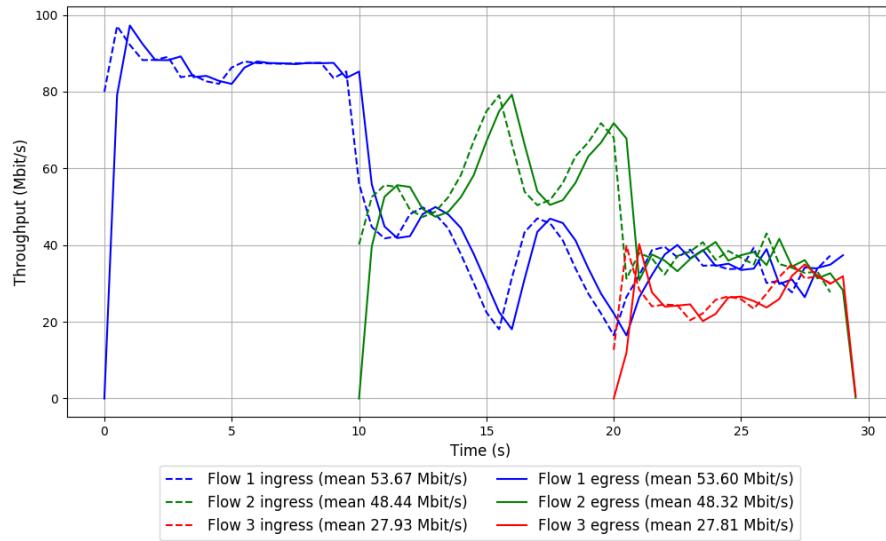


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 02:35:27
End at: 2019-03-19 02:35:57
Local clock offset: -5.304 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-03-19 04:38:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 25.148 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 53.60 Mbit/s
95th percentile per-packet one-way delay: 23.875 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 48.32 Mbit/s
95th percentile per-packet one-way delay: 25.511 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 27.81 Mbit/s
95th percentile per-packet one-way delay: 27.410 ms
Loss rate: 0.20%
```

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

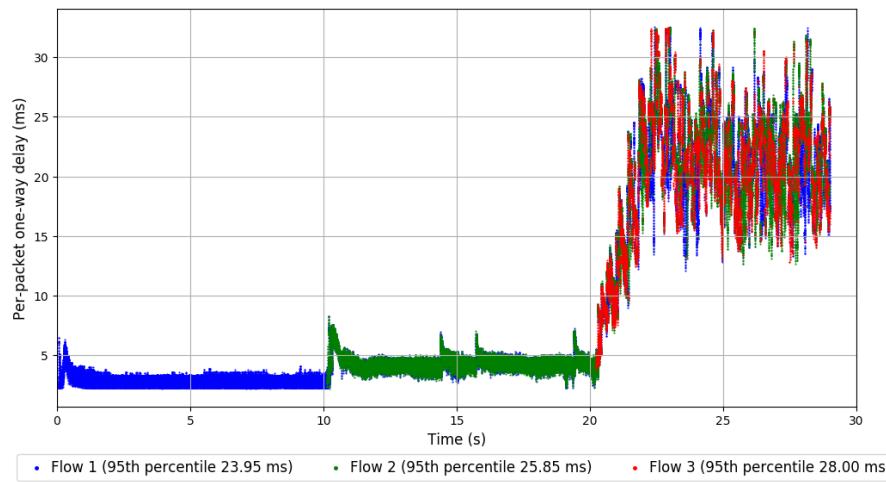
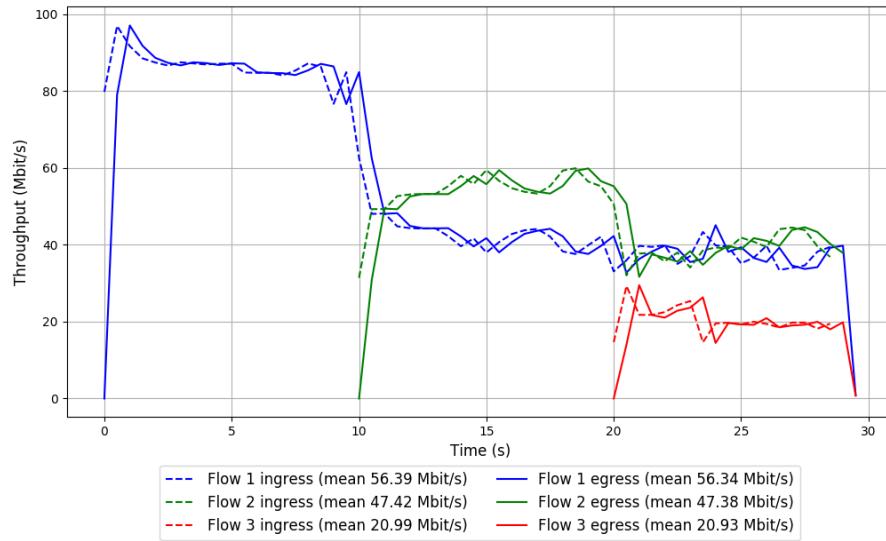


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 02:59:22
End at: 2019-03-19 02:59:52
Local clock offset: -4.977 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2019-03-19 04:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 25.285 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 56.34 Mbit/s
95th percentile per-packet one-way delay: 23.951 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.38 Mbit/s
95th percentile per-packet one-way delay: 25.850 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 20.93 Mbit/s
95th percentile per-packet one-way delay: 28.000 ms
Loss rate: 0.01%
```

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

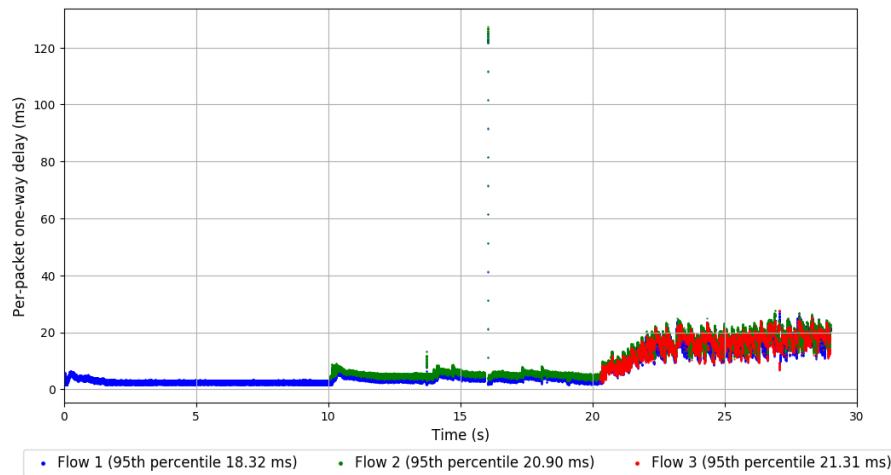
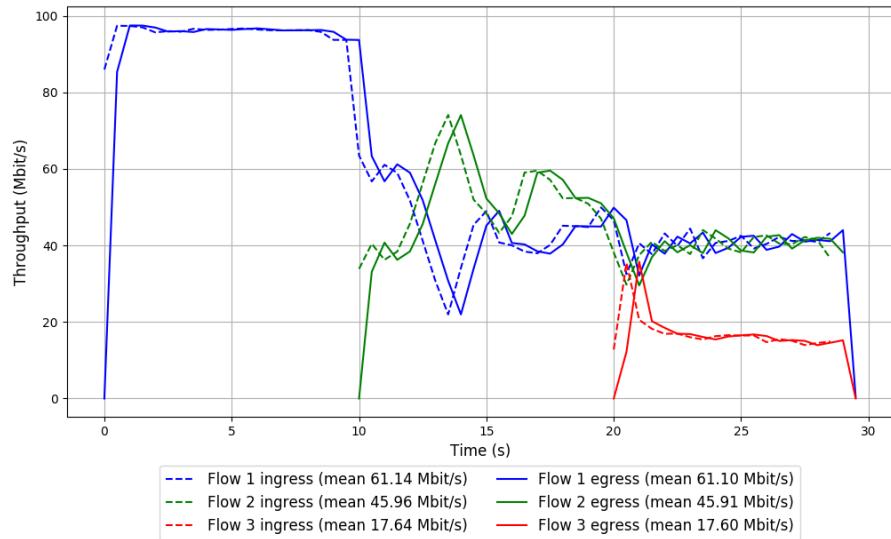


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 03:23:15
End at: 2019-03-19 03:23:45
Local clock offset: -3.317 ms
Remote clock offset: 0.331 ms

# Below is generated by plot.py at 2019-03-19 04:38:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 19.738 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.10 Mbit/s
95th percentile per-packet one-way delay: 18.324 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 20.900 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.60 Mbit/s
95th percentile per-packet one-way delay: 21.314 ms
Loss rate: 0.00%
```

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

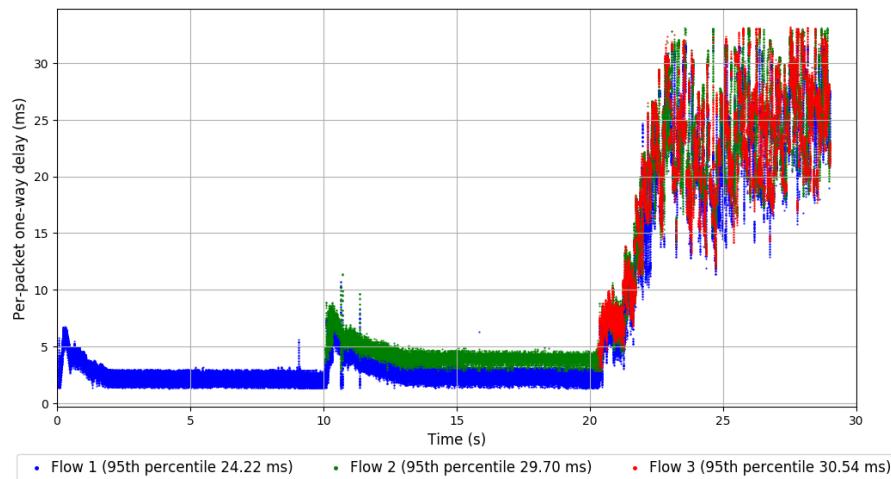
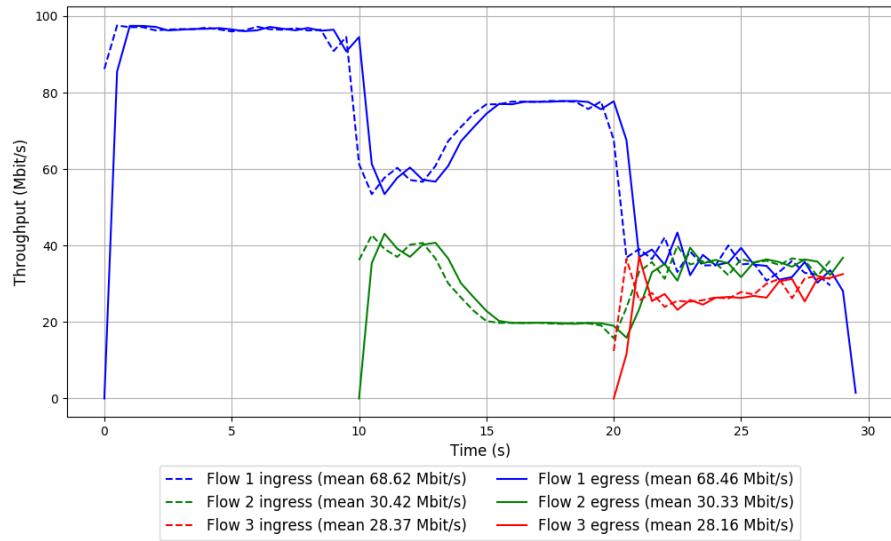


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 03:47:10
End at: 2019-03-19 03:47:40
Local clock offset: -0.772 ms
Remote clock offset: 0.429 ms

# Below is generated by plot.py at 2019-03-19 04:38:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 27.353 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 68.46 Mbit/s
95th percentile per-packet one-way delay: 24.218 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 29.702 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 28.16 Mbit/s
95th percentile per-packet one-way delay: 30.542 ms
Loss rate: 0.52%
```

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

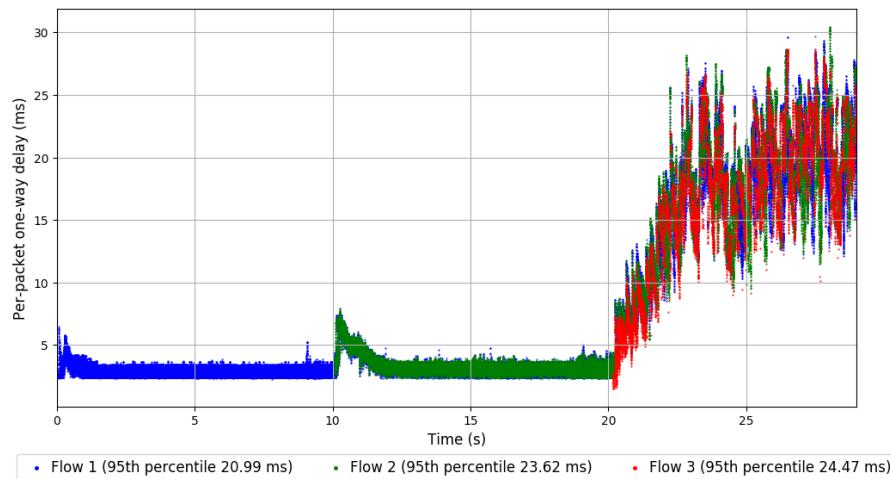
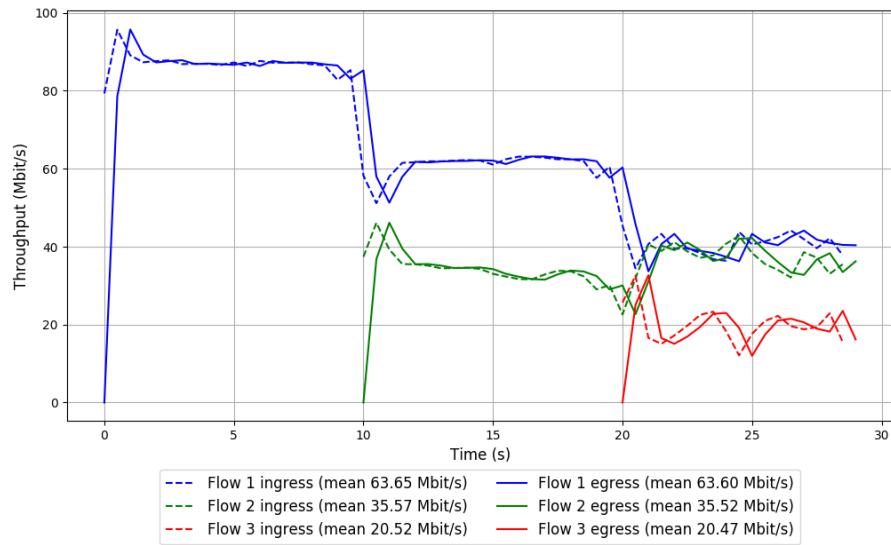


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-03-19 04:11:05
End at: 2019-03-19 04:11:35
Local clock offset: -0.925 ms
Remote clock offset: 0.757 ms

# Below is generated by plot.py at 2019-03-19 04:38:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 22.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.60 Mbit/s
95th percentile per-packet one-way delay: 20.987 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.52 Mbit/s
95th percentile per-packet one-way delay: 23.620 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 24.470 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesT — Data Link

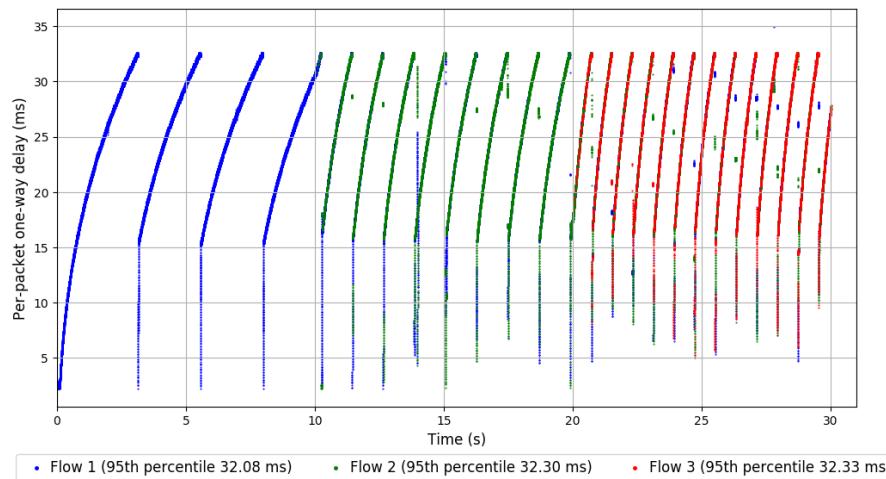
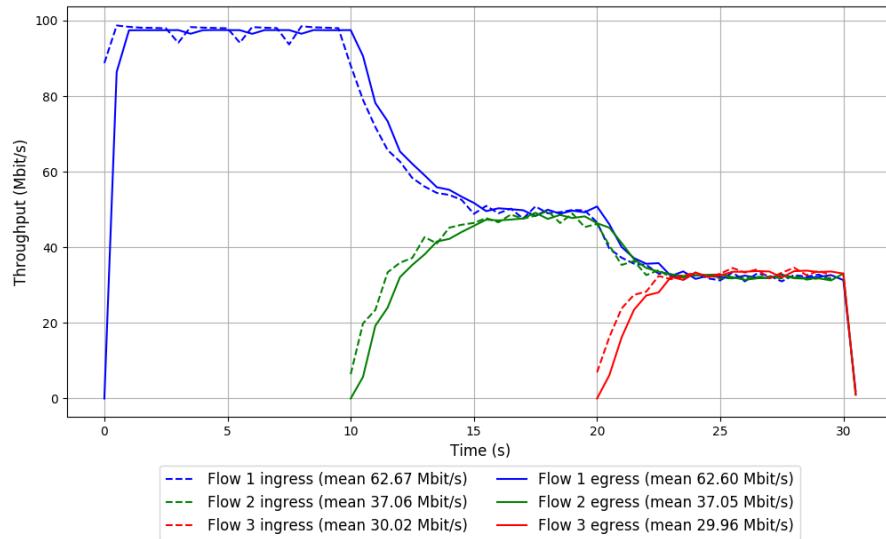


Run 1: Statistics of LEDBAT

```
Start at: 2019-03-19 02:31:56
End at: 2019-03-19 02:32:26
Local clock offset: -5.4 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-03-19 04:38:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 32.116 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 62.60 Mbit/s
95th percentile per-packet one-way delay: 32.084 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 32.304 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 32.327 ms
Loss rate: 0.09%
```

Run 1: Report of LEDBAT — Data Link

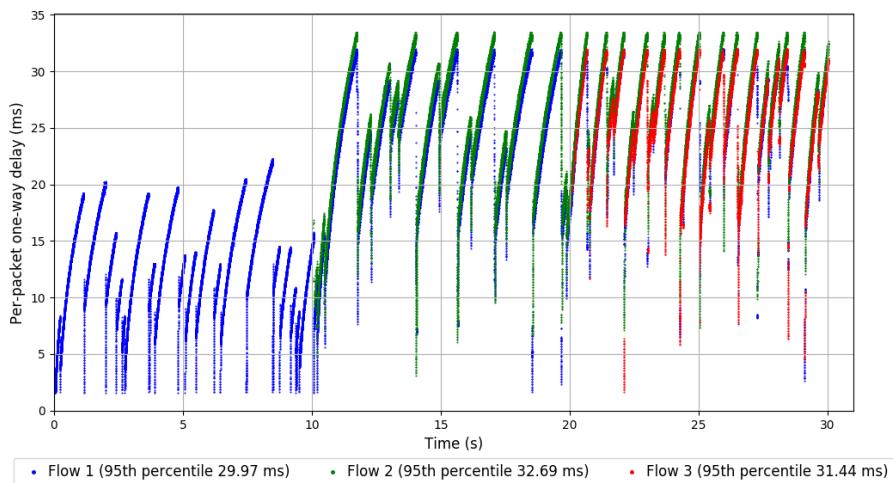
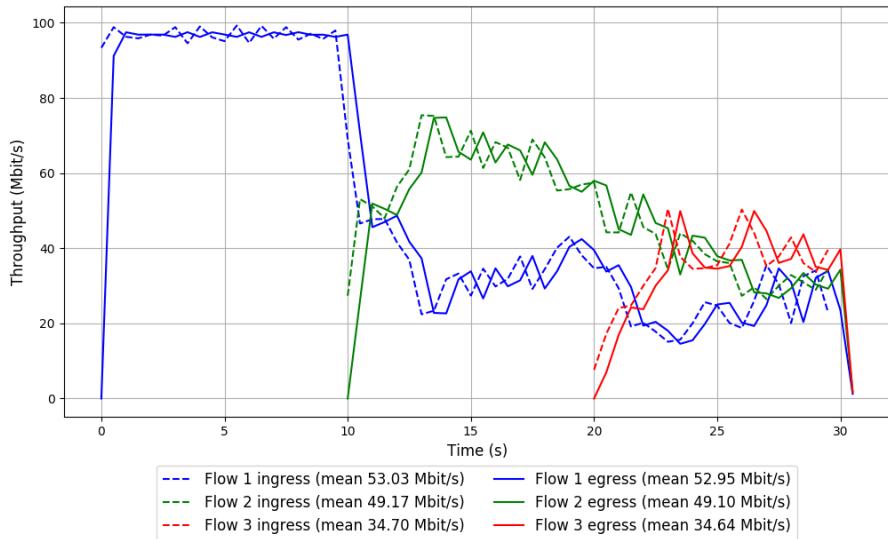


Run 2: Statistics of LEDBAT

```
Start at: 2019-03-19 02:55:51
End at: 2019-03-19 02:56:21
Local clock offset: -5.782 ms
Remote clock offset: 0.205 ms

# Below is generated by plot.py at 2019-03-19 04:38:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 31.669 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 52.95 Mbit/s
95th percentile per-packet one-way delay: 29.966 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 49.10 Mbit/s
95th percentile per-packet one-way delay: 32.693 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 34.64 Mbit/s
95th percentile per-packet one-way delay: 31.436 ms
Loss rate: 0.07%
```

Run 2: Report of LEDBAT — Data Link

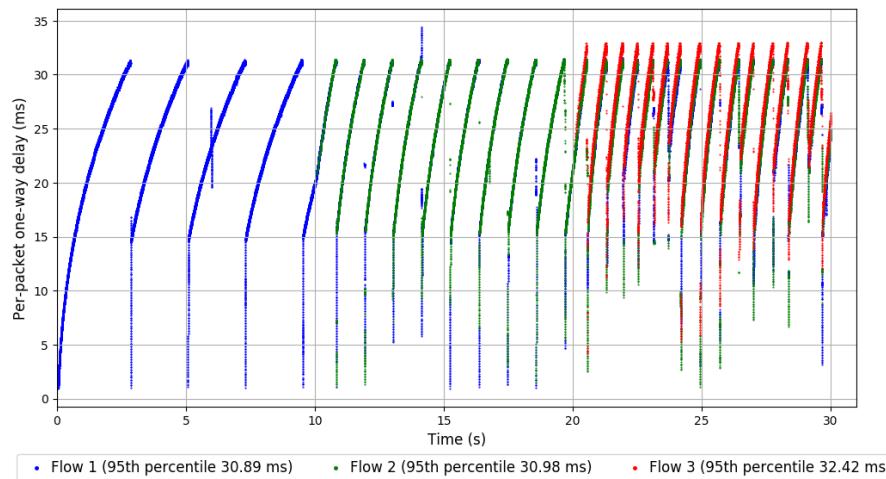
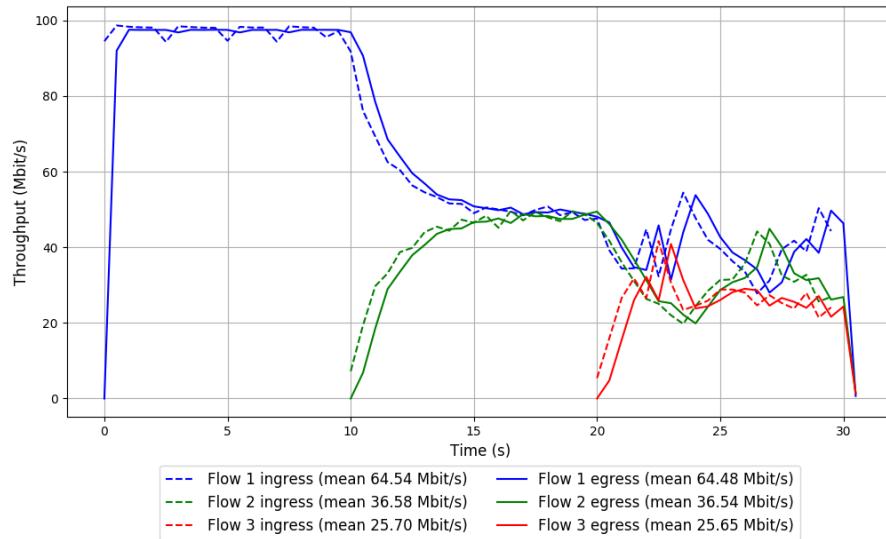


Run 3: Statistics of LEDBAT

```
Start at: 2019-03-19 03:19:45
End at: 2019-03-19 03:20:15
Local clock offset: -3.593 ms
Remote clock offset: 0.332 ms

# Below is generated by plot.py at 2019-03-19 04:39:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 31.095 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 64.48 Mbit/s
95th percentile per-packet one-way delay: 30.889 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 36.54 Mbit/s
95th percentile per-packet one-way delay: 30.977 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 25.65 Mbit/s
95th percentile per-packet one-way delay: 32.421 ms
Loss rate: 0.17%
```

Run 3: Report of LEDBAT — Data Link

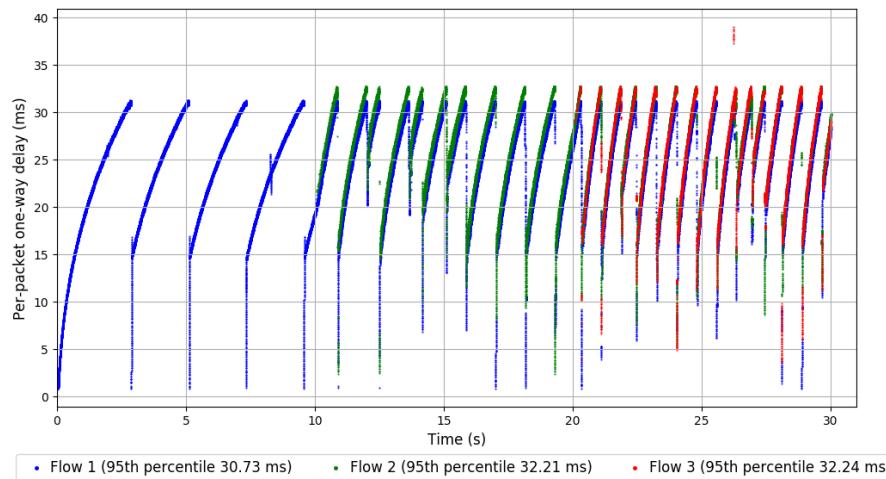
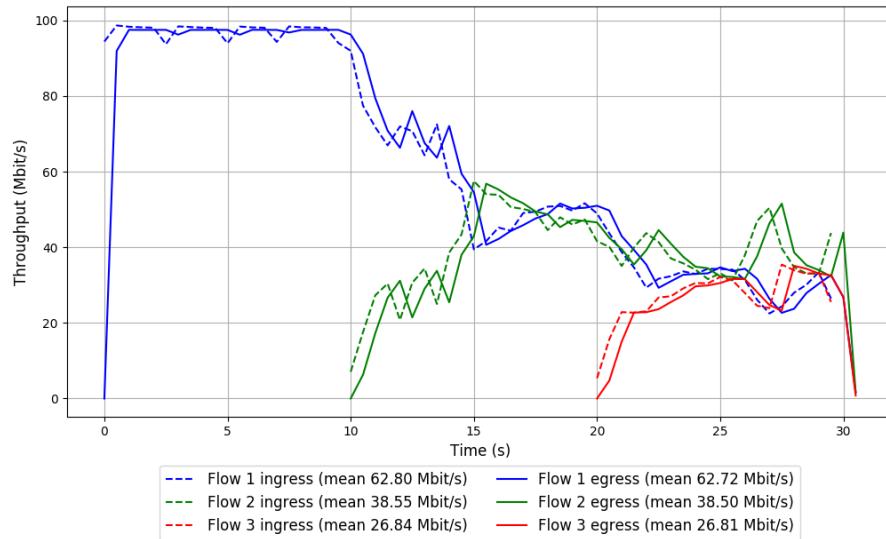


Run 4: Statistics of LEDBAT

```
Start at: 2019-03-19 03:43:40
End at: 2019-03-19 03:44:10
Local clock offset: -0.033 ms
Remote clock offset: 0.535 ms

# Below is generated by plot.py at 2019-03-19 04:39:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.25 Mbit/s
95th percentile per-packet one-way delay: 31.242 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.72 Mbit/s
95th percentile per-packet one-way delay: 30.725 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 32.213 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 32.240 ms
Loss rate: 0.09%
```

Run 4: Report of LEDBAT — Data Link

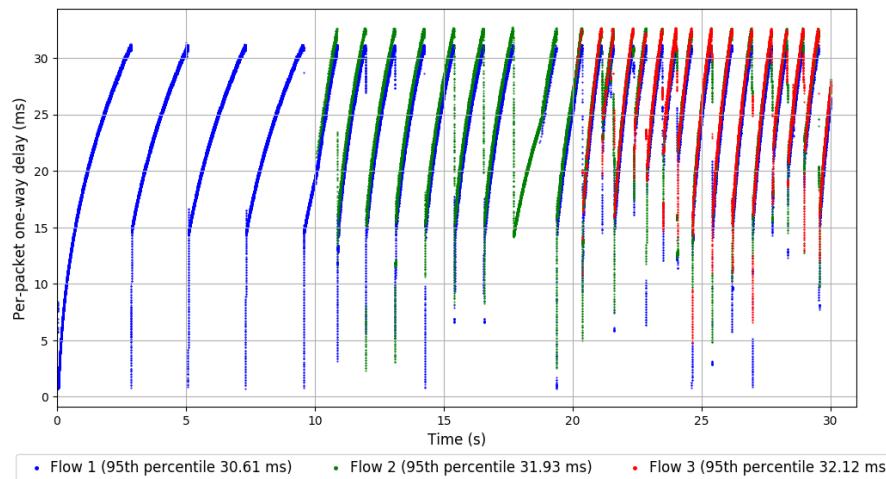
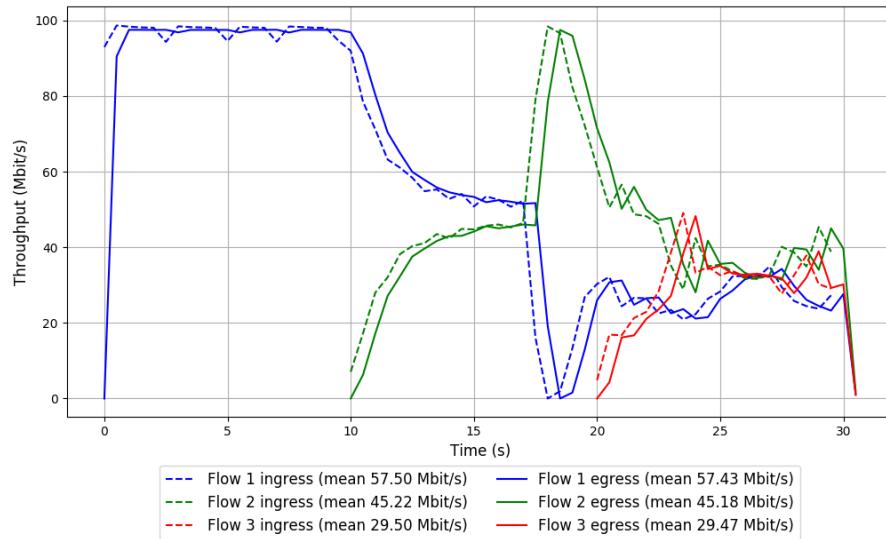


Run 5: Statistics of LEDBAT

```
Start at: 2019-03-19 04:07:36
End at: 2019-03-19 04:08:06
Local clock offset: -0.955 ms
Remote clock offset: 0.638 ms

# Below is generated by plot.py at 2019-03-19 04:39:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.29 Mbit/s
95th percentile per-packet one-way delay: 31.160 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 57.43 Mbit/s
95th percentile per-packet one-way delay: 30.606 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 45.18 Mbit/s
95th percentile per-packet one-way delay: 31.926 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 32.121 ms
Loss rate: 0.10%
```

Run 5: Report of LEDBAT — Data Link

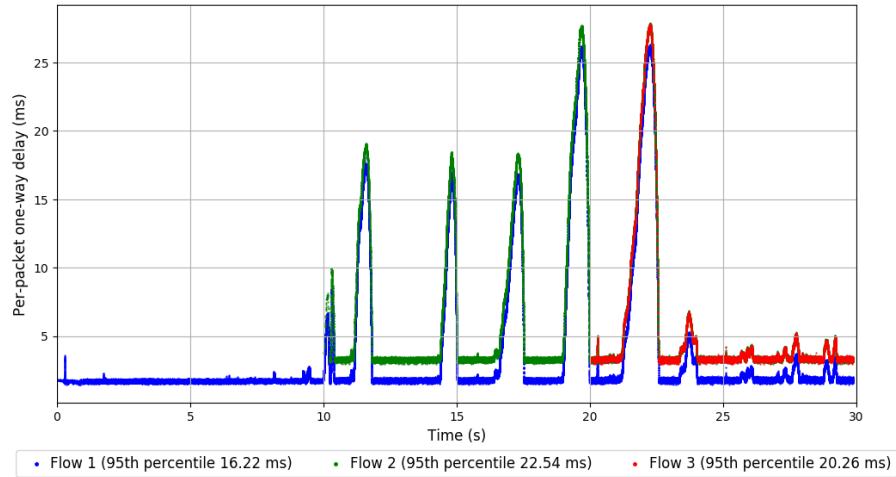
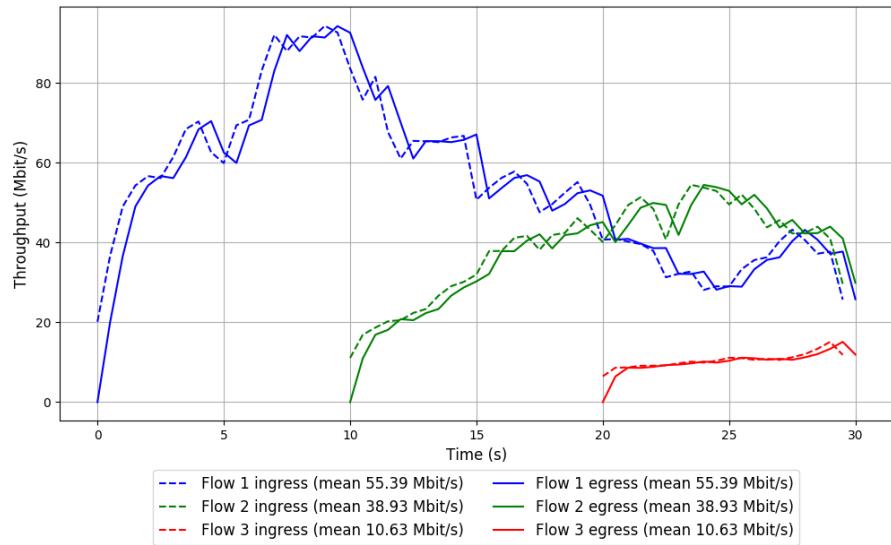


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-03-19 02:38:47
End at: 2019-03-19 02:39:17
Local clock offset: -6.074 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2019-03-19 04:39:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.78 Mbit/s
95th percentile per-packet one-way delay: 17.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 16.222 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.93 Mbit/s
95th percentile per-packet one-way delay: 22.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 20.261 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

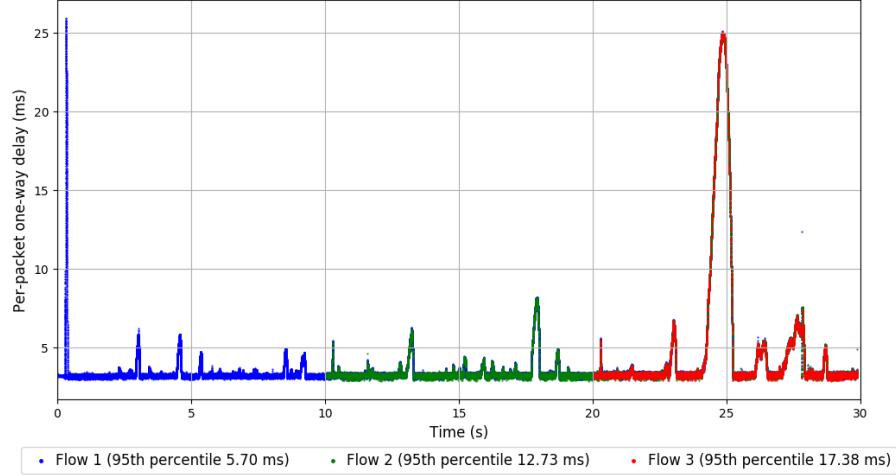
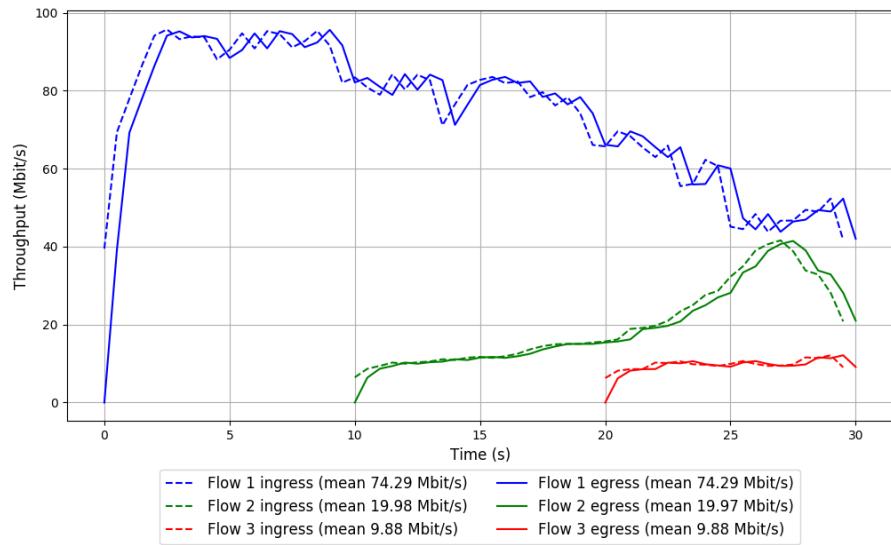


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-03-19 03:02:42
End at: 2019-03-19 03:03:12
Local clock offset: -5.73 ms
Remote clock offset: 0.248 ms

# Below is generated by plot.py at 2019-03-19 04:39:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 6.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.29 Mbit/s
95th percentile per-packet one-way delay: 5.696 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 19.97 Mbit/s
95th percentile per-packet one-way delay: 12.729 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 17.375 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Allegro — Data Link

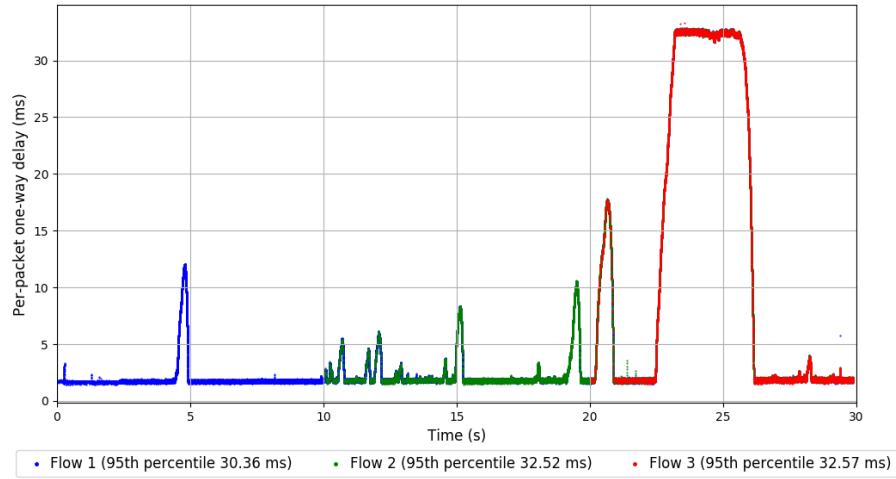
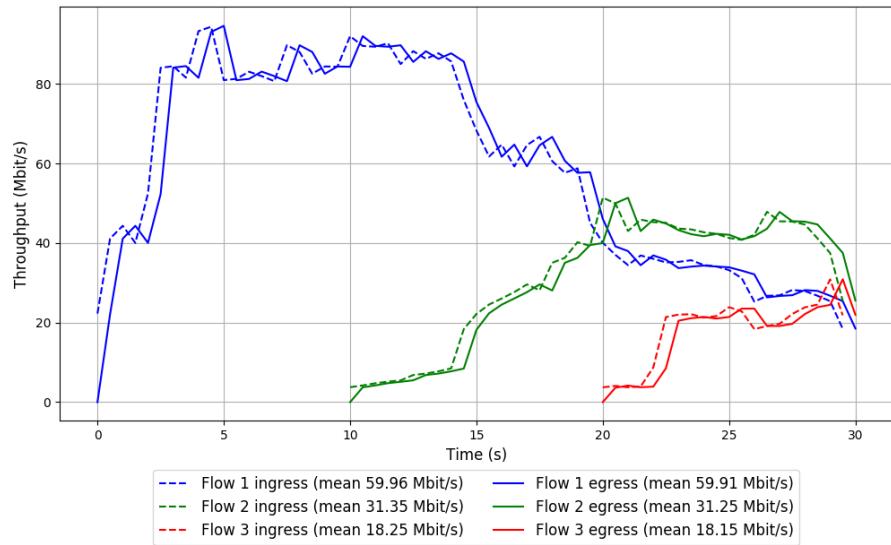


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-03-19 03:26:35
End at: 2019-03-19 03:27:05
Local clock offset: -2.608 ms
Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2019-03-19 04:39:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 32.427 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 59.91 Mbit/s
95th percentile per-packet one-way delay: 30.363 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 32.519 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 18.15 Mbit/s
95th percentile per-packet one-way delay: 32.573 ms
Loss rate: 0.55%
```

Run 3: Report of PCC-Allegro — Data Link

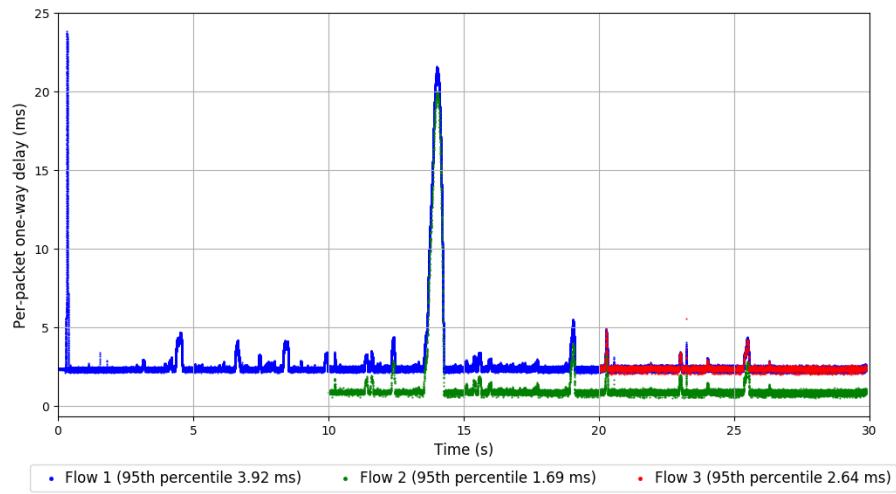
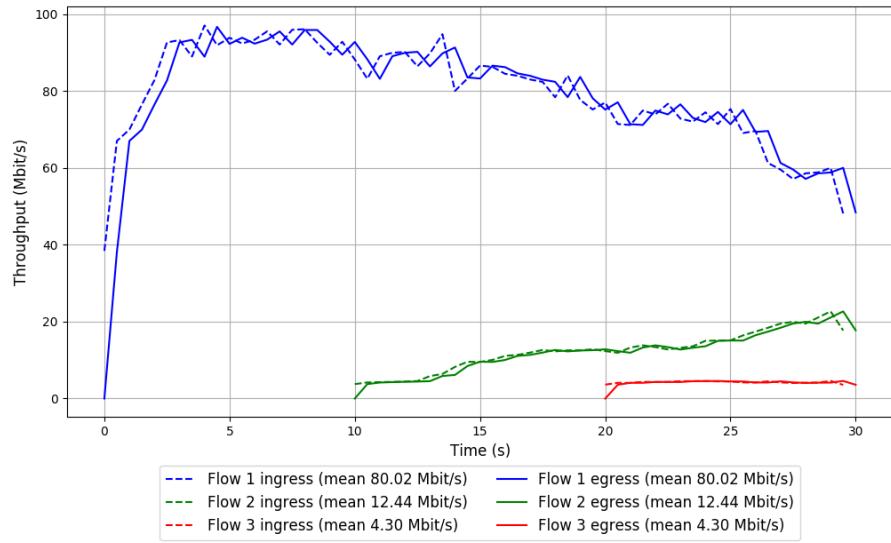


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-03-19 03:50:31
End at: 2019-03-19 03:51:01
Local clock offset: -0.472 ms
Remote clock offset: 0.537 ms

# Below is generated by plot.py at 2019-03-19 04:40:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.71 Mbit/s
95th percentile per-packet one-way delay: 3.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.02 Mbit/s
95th percentile per-packet one-way delay: 3.919 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 1.691 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 2.643 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Allegro — Data Link

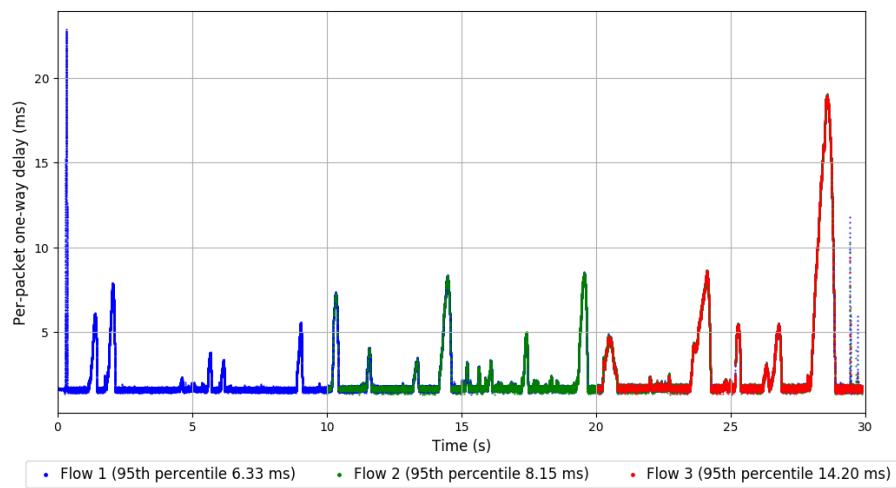
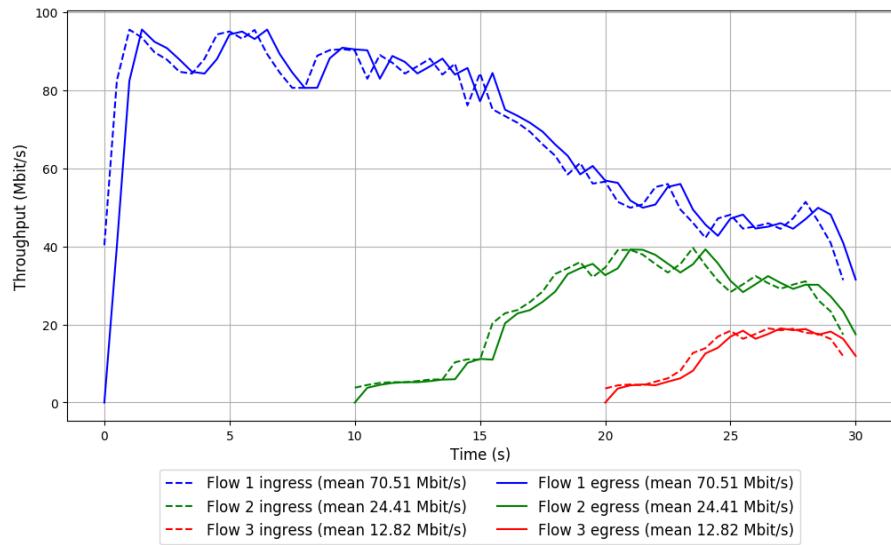


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-03-19 04:14:26
End at: 2019-03-19 04:14:56
Local clock offset: -1.629 ms
Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2019-03-19 04:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 7.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.51 Mbit/s
95th percentile per-packet one-way delay: 6.325 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 8.147 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 14.201 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Allegro — Data Link

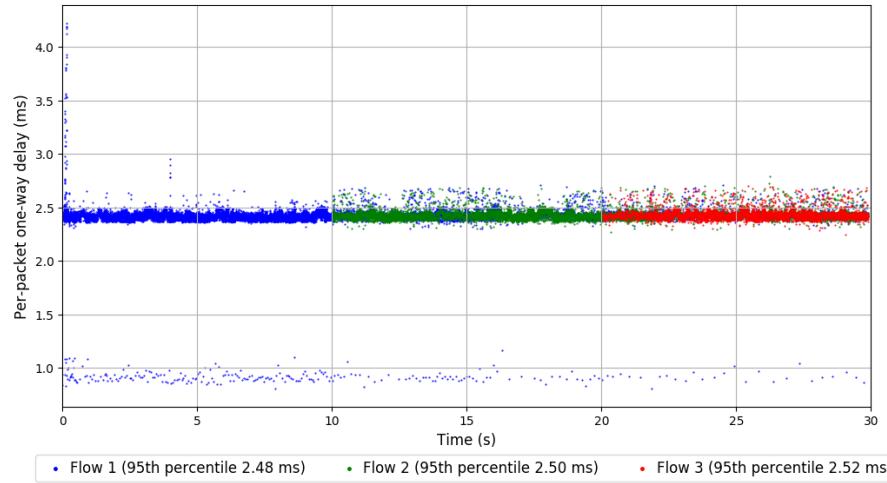
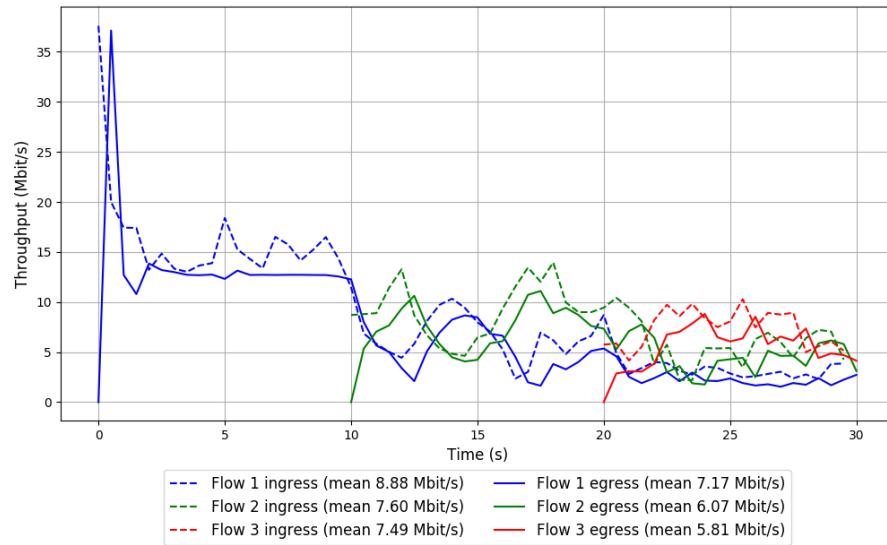


Run 1: Statistics of PCC-Expr

```
Start at: 2019-03-19 02:43:24
End at: 2019-03-19 02:43:54
Local clock offset: -5.234 ms
Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2019-03-19 04:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 2.490 ms
Loss rate: 20.05%
-- Flow 1:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 2.485 ms
Loss rate: 19.31%
-- Flow 2:
Average throughput: 6.07 Mbit/s
95th percentile per-packet one-way delay: 2.497 ms
Loss rate: 20.21%
-- Flow 3:
Average throughput: 5.81 Mbit/s
95th percentile per-packet one-way delay: 2.515 ms
Loss rate: 22.36%
```

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

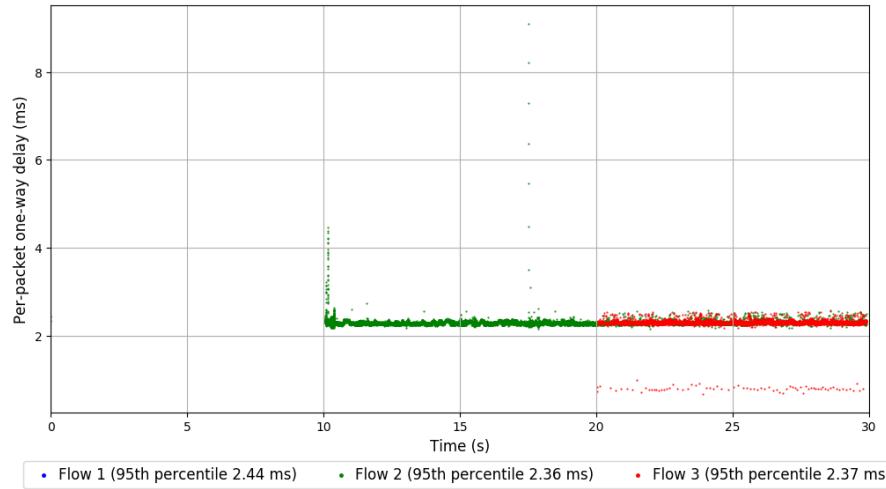
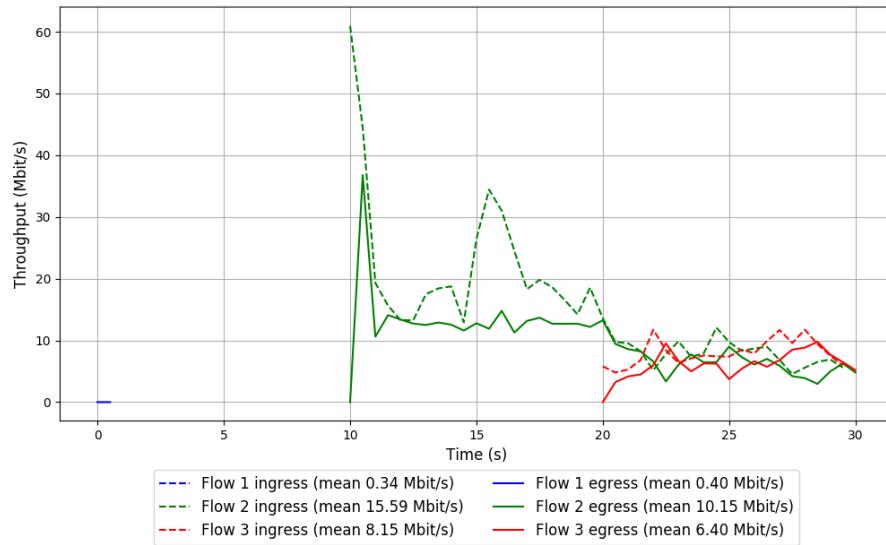


Run 2: Statistics of PCC-Expr

```
Start at: 2019-03-19 03:07:19
End at: 2019-03-19 03:07:49
Local clock offset: -4.937 ms
Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2019-03-19 04:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 2.365 ms
Loss rate: 32.14%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 2.445 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.15 Mbit/s
95th percentile per-packet one-way delay: 2.362 ms
Loss rate: 34.90%
-- Flow 3:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 2.374 ms
Loss rate: 21.48%
```

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

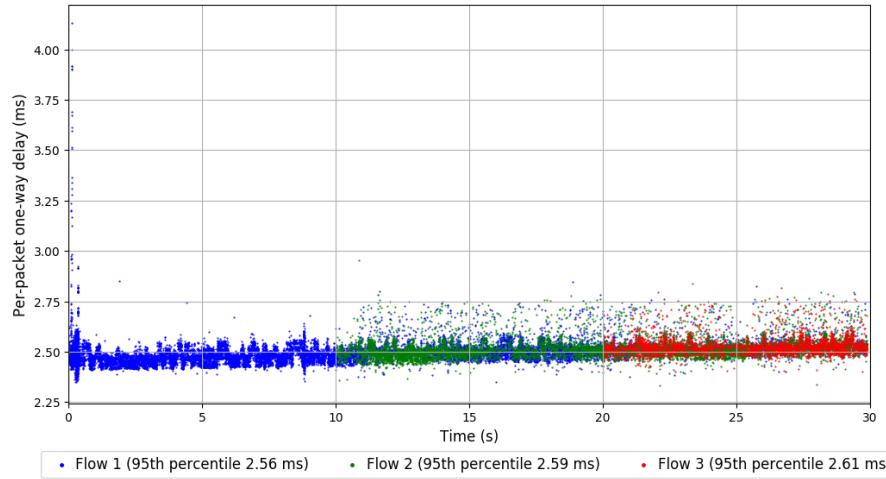
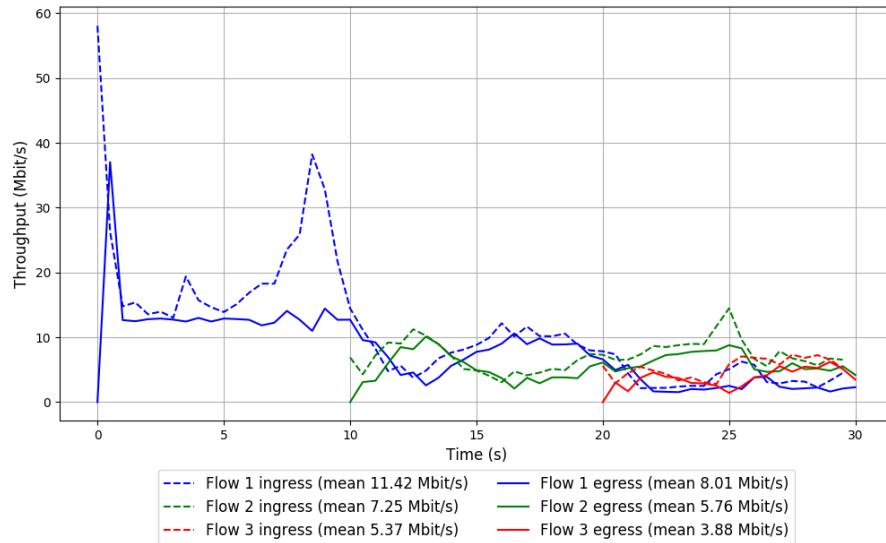


Run 3: Statistics of PCC-Expr

```
Start at: 2019-03-19 03:31:12
End at: 2019-03-19 03:31:42
Local clock offset: -1.17 ms
Remote clock offset: 0.48 ms

# Below is generated by plot.py at 2019-03-19 04:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 2.576 ms
Loss rate: 27.18%
-- Flow 1:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 2.561 ms
Loss rate: 29.88%
-- Flow 2:
Average throughput: 5.76 Mbit/s
95th percentile per-packet one-way delay: 2.592 ms
Loss rate: 20.58%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 2.611 ms
Loss rate: 27.72%
```

Run 3: Report of PCC-Expr — Data Link

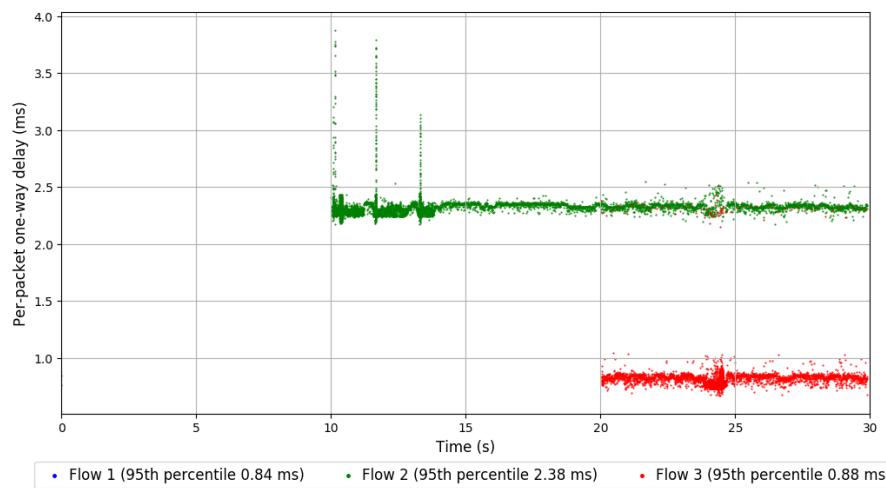
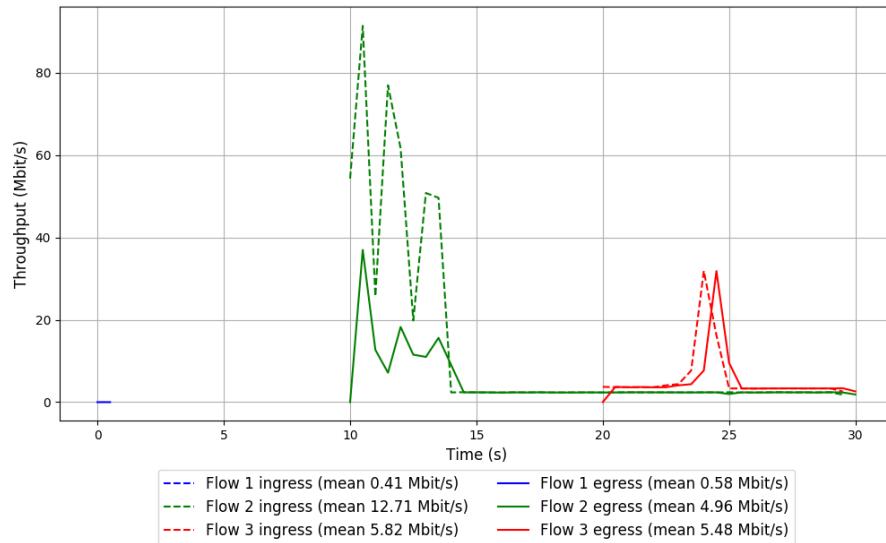


Run 4: Statistics of PCC-Expr

```
Start at: 2019-03-19 03:55:08
End at: 2019-03-19 03:55:38
Local clock offset: -0.792 ms
Remote clock offset: 0.523 ms

# Below is generated by plot.py at 2019-03-19 04:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.11 Mbit/s
95th percentile per-packet one-way delay: 2.365 ms
Loss rate: 50.78%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 0.842 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 4.96 Mbit/s
95th percentile per-packet one-way delay: 2.385 ms
Loss rate: 61.00%
-- Flow 3:
Average throughput: 5.48 Mbit/s
95th percentile per-packet one-way delay: 0.877 ms
Loss rate: 5.89%
```

Run 4: Report of PCC-Expr — Data Link

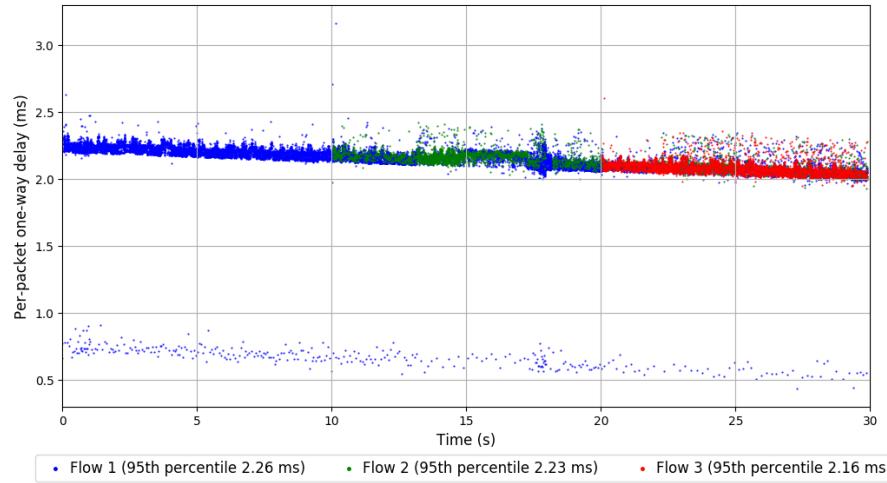
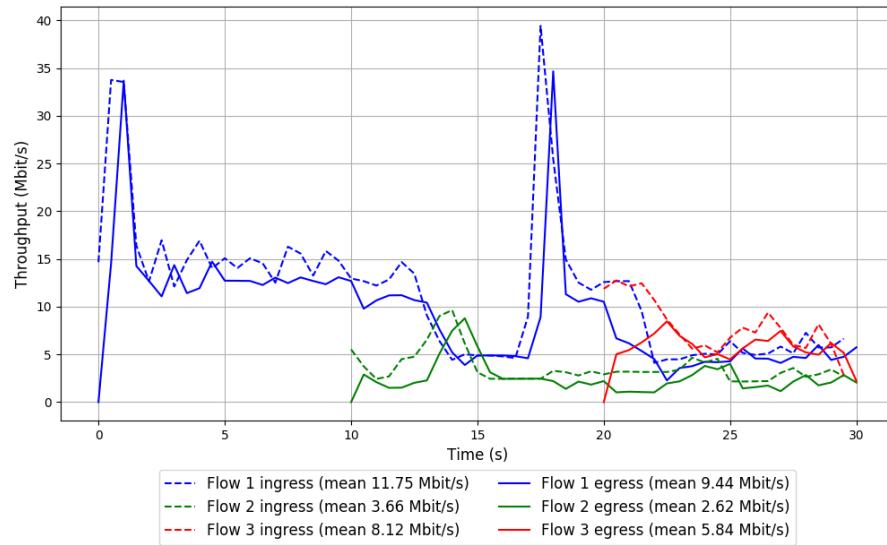


Run 5: Statistics of PCC-Expr

```
Start at: 2019-03-19 04:19:03
End at: 2019-03-19 04:19:33
Local clock offset: -2.521 ms
Remote clock offset: 0.644 ms

# Below is generated by plot.py at 2019-03-19 04:40:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 2.255 ms
Loss rate: 22.25%
-- Flow 1:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 2.259 ms
Loss rate: 19.67%
-- Flow 2:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 2.233 ms
Loss rate: 28.32%
-- Flow 3:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 2.162 ms
Loss rate: 28.06%
```

Run 5: Report of PCC-Expr — Data Link

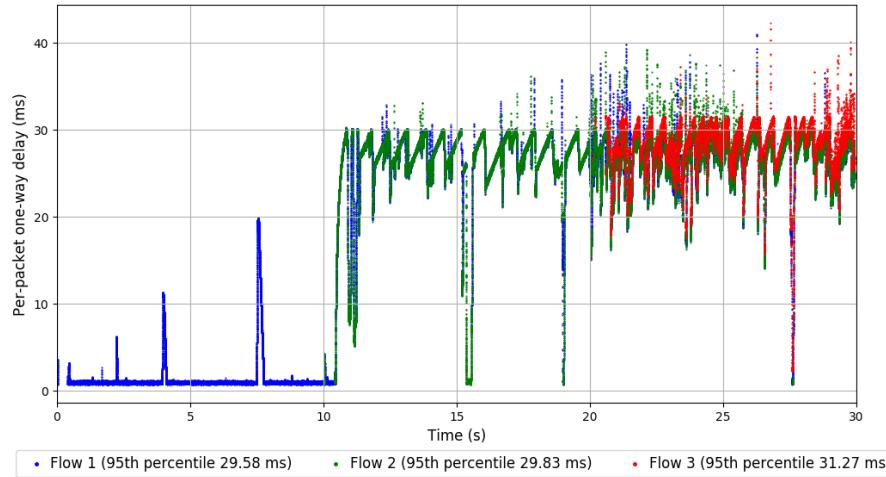
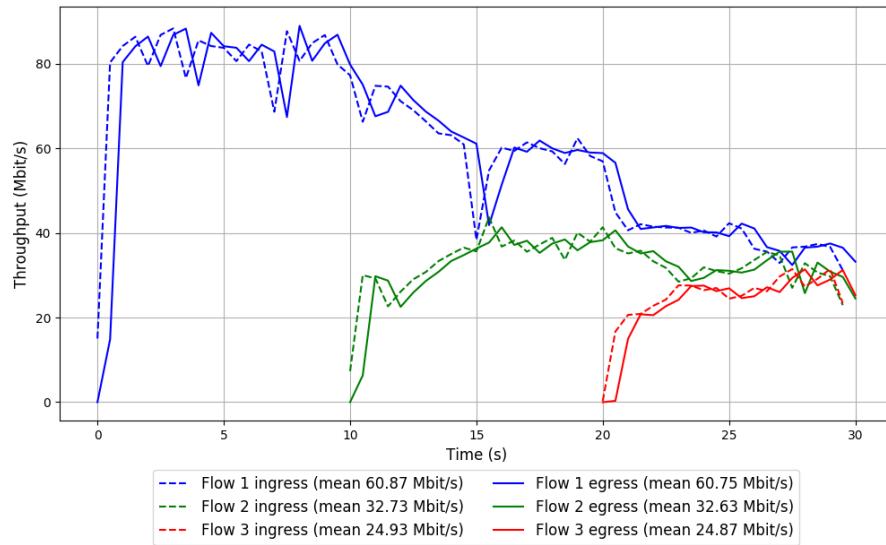


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-03-19 02:49:06
End at: 2019-03-19 02:49:36
Local clock offset: -5.122 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2019-03-19 04:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 29.852 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 60.75 Mbit/s
95th percentile per-packet one-way delay: 29.576 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 29.827 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 31.267 ms
Loss rate: 0.26%
```

Run 1: Report of QUIC Cubic — Data Link

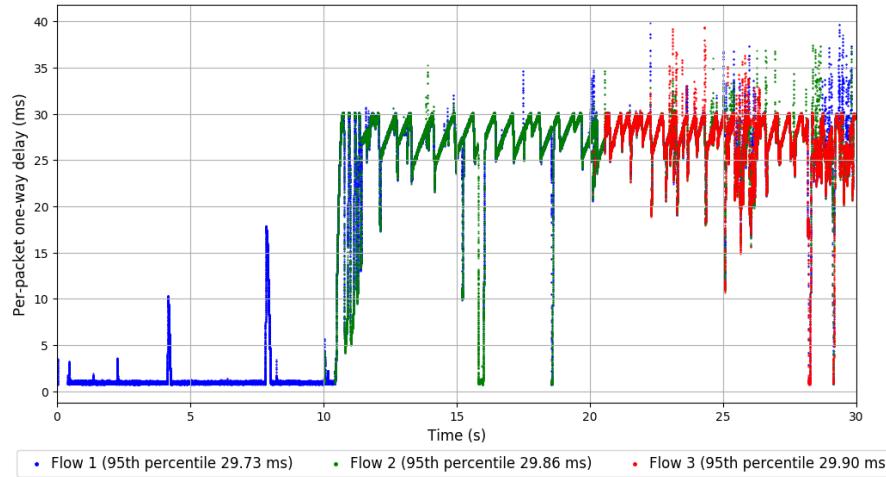
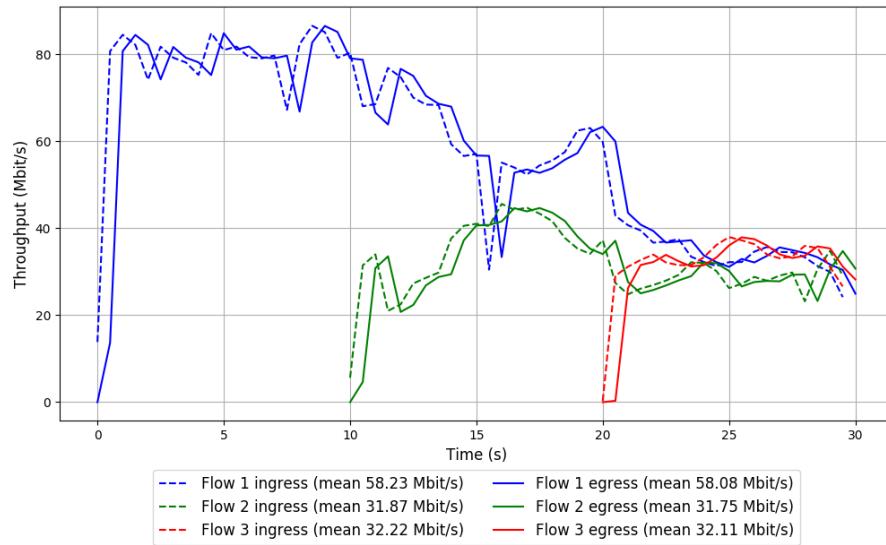


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-03-19 03:13:00
End at: 2019-03-19 03:13:30
Local clock offset: -4.934 ms
Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2019-03-19 04:40:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.75 Mbit/s
95th percentile per-packet one-way delay: 29.804 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 29.733 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 29.864 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 32.11 Mbit/s
95th percentile per-packet one-way delay: 29.898 ms
Loss rate: 0.25%
```

Run 2: Report of QUIC Cubic — Data Link

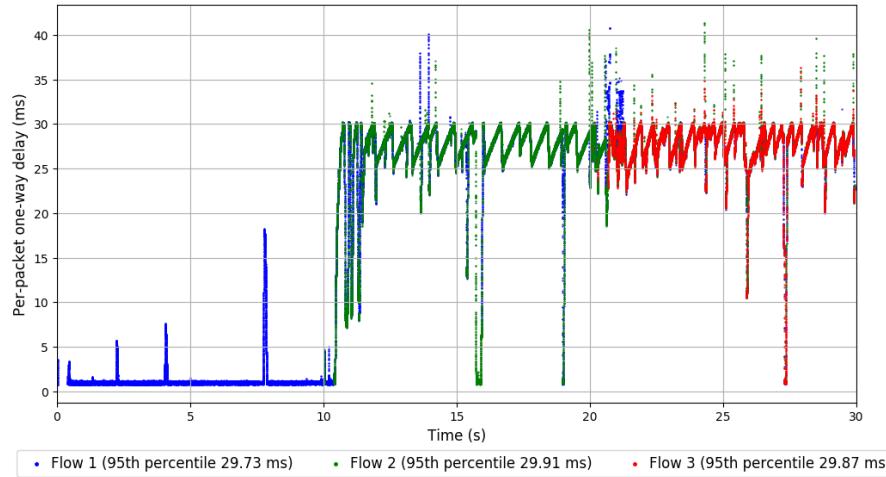
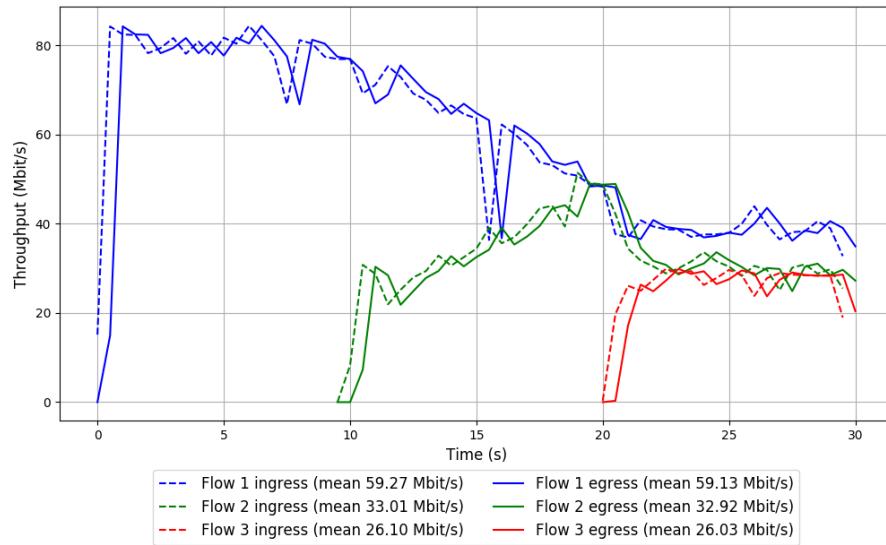


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-03-19 03:36:55
End at: 2019-03-19 03:37:25
Local clock offset: -0.618 ms
Remote clock offset: 0.415 ms

# Below is generated by plot.py at 2019-03-19 04:40:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 29.804 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 59.13 Mbit/s
95th percentile per-packet one-way delay: 29.733 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 32.92 Mbit/s
95th percentile per-packet one-way delay: 29.910 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 26.03 Mbit/s
95th percentile per-packet one-way delay: 29.871 ms
Loss rate: 0.31%
```

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

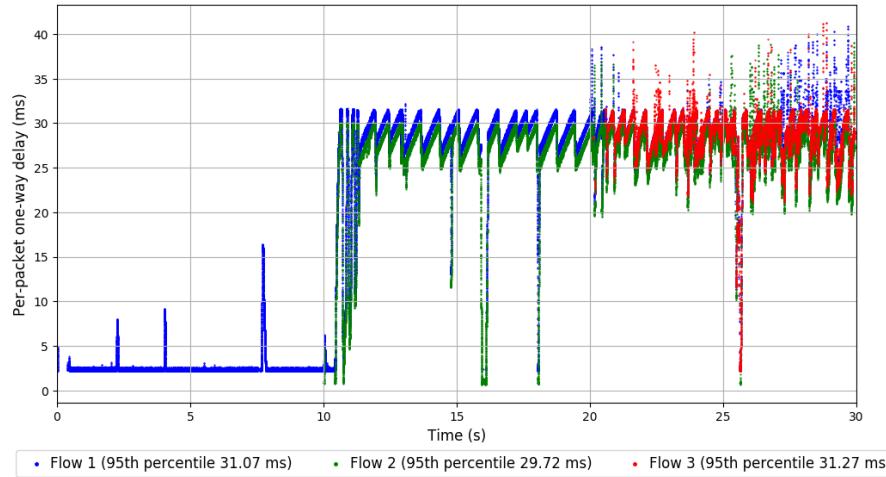
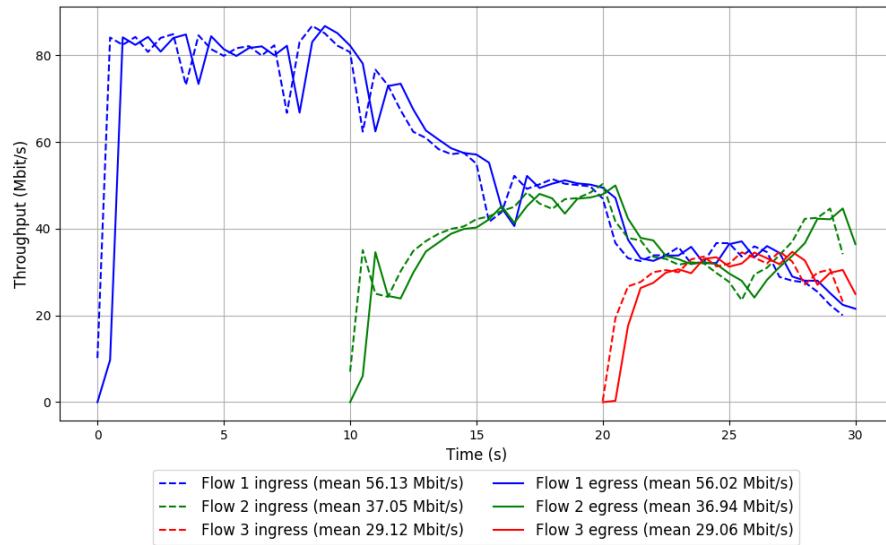


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-03-19 04:00:50
End at: 2019-03-19 04:01:20
Local clock offset: -0.958 ms
Remote clock offset: 0.563 ms

# Below is generated by plot.py at 2019-03-19 04:40:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 31.020 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 56.02 Mbit/s
95th percentile per-packet one-way delay: 31.068 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 36.94 Mbit/s
95th percentile per-packet one-way delay: 29.721 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 31.266 ms
Loss rate: 0.22%
```

Run 4: Report of QUIC Cubic — Data Link

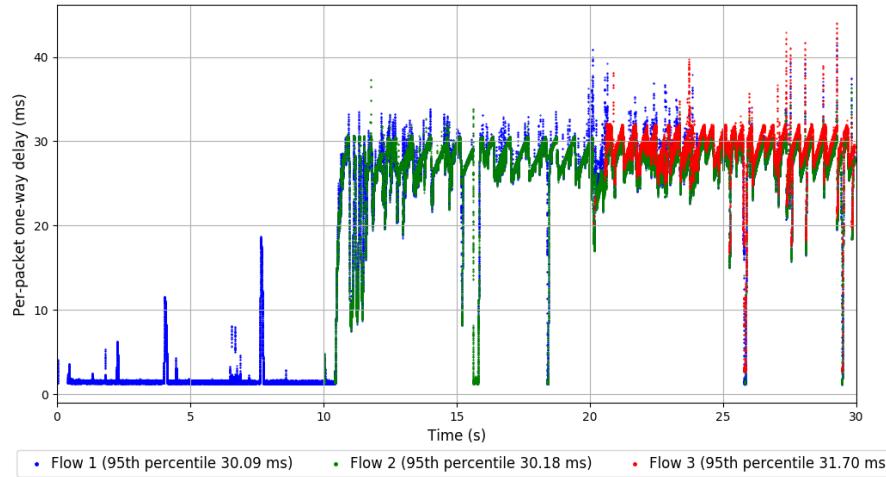
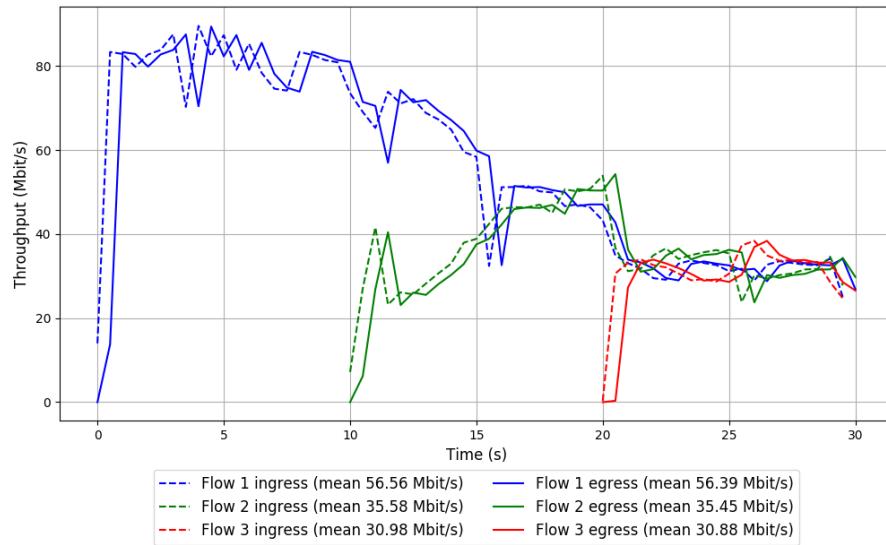


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-03-19 04:24:45
End at: 2019-03-19 04:25:15
Local clock offset: -5.247 ms
Remote clock offset: 0.541 ms

# Below is generated by plot.py at 2019-03-19 04:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 30.423 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 56.39 Mbit/s
95th percentile per-packet one-way delay: 30.095 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 35.45 Mbit/s
95th percentile per-packet one-way delay: 30.183 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 30.88 Mbit/s
95th percentile per-packet one-way delay: 31.695 ms
Loss rate: 0.35%
```

Run 5: Report of QUIC Cubic — Data Link

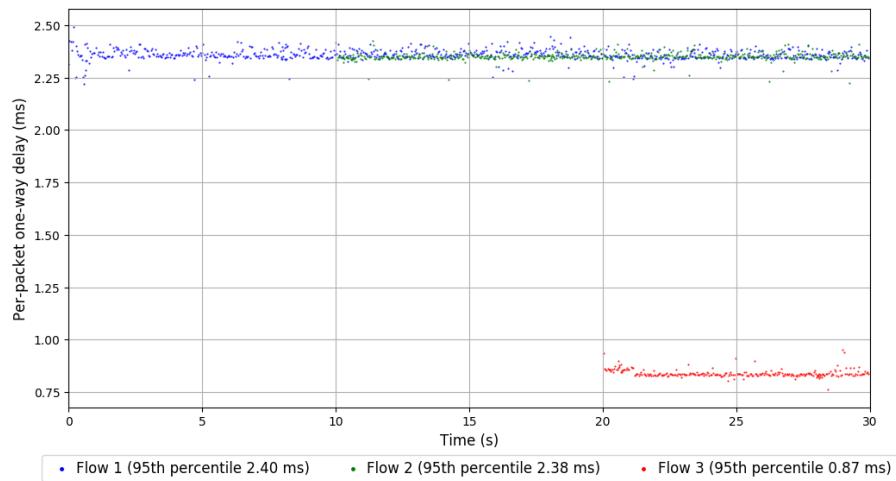
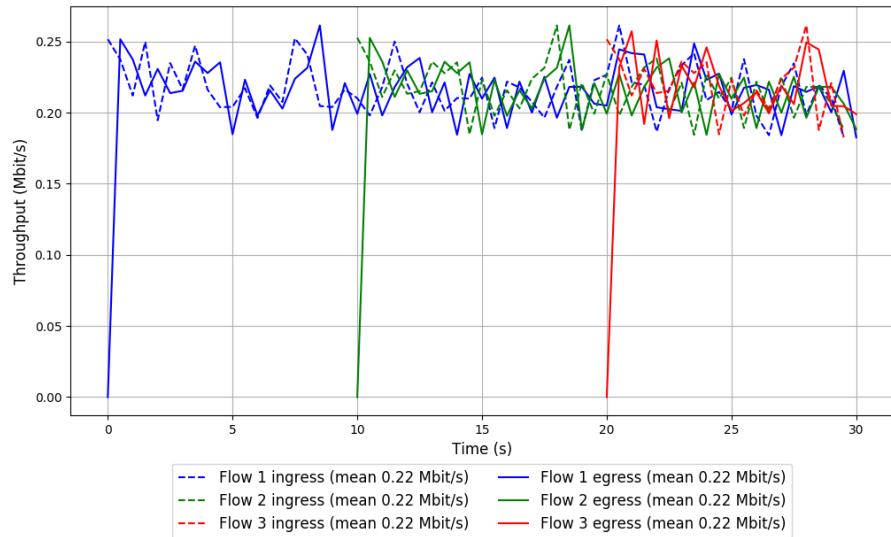


```
Run 1: Statistics of SCReAM

Start at: 2019-03-19 02:37:42
End at: 2019-03-19 02:38:12
Local clock offset: -5.281 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-03-19 04:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.400 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.380 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.870 ms
Loss rate: 0.00%
```

## Run 1: Report of SCReAM — Data Link

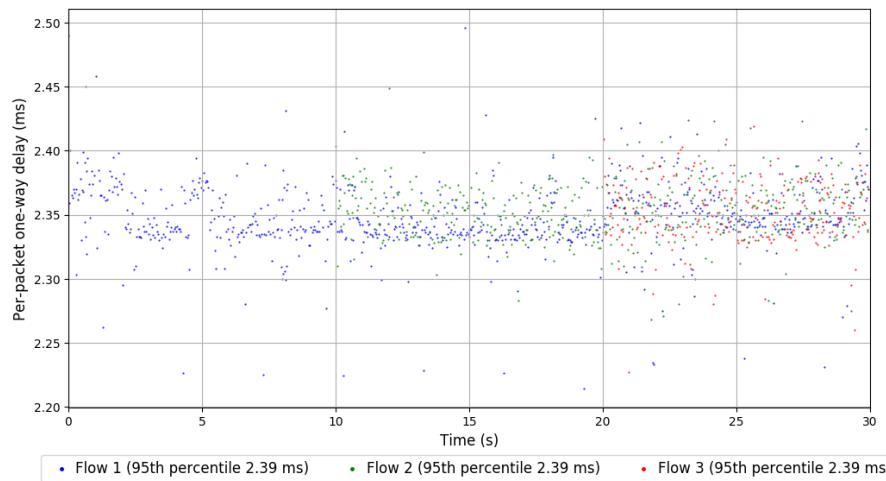
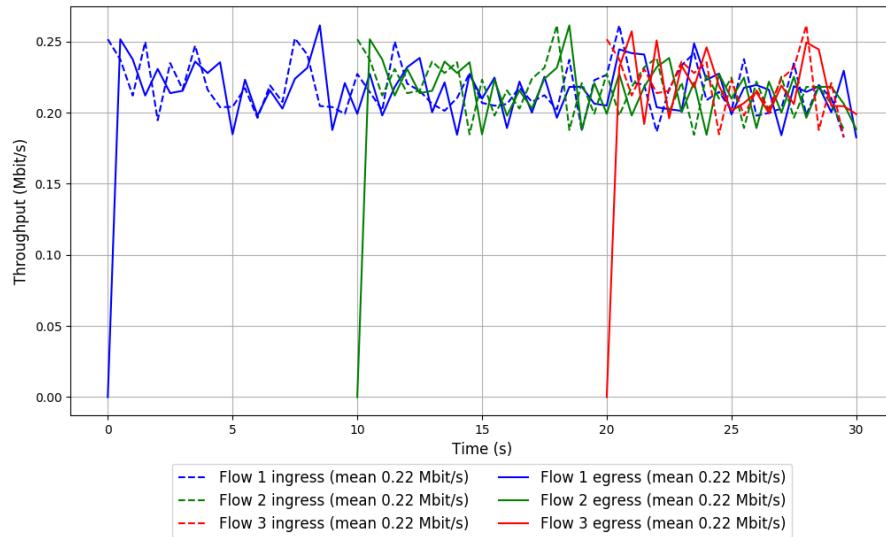


Run 2: Statistics of SCReAM

```
Start at: 2019-03-19 03:01:37
End at: 2019-03-19 03:02:07
Local clock offset: -5.025 ms
Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2019-03-19 04:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.386 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.389 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.389 ms
Loss rate: 0.00%
```

## Run 2: Report of SCReAM — Data Link

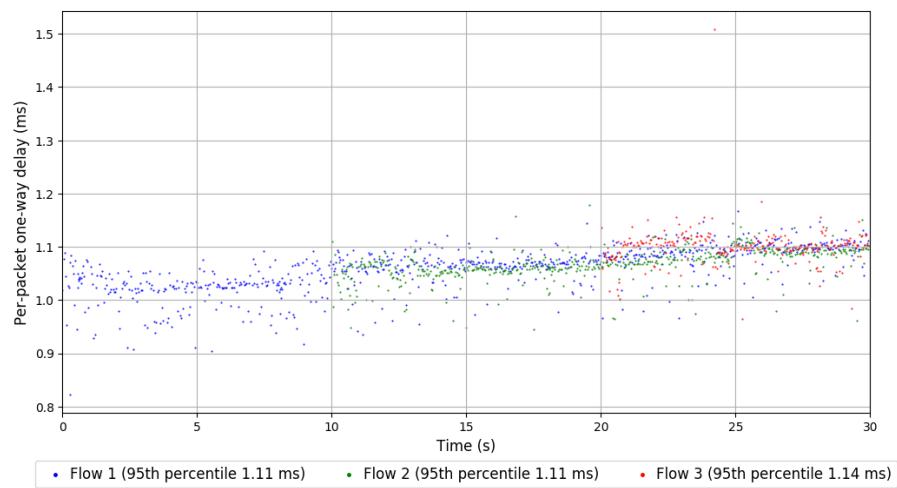
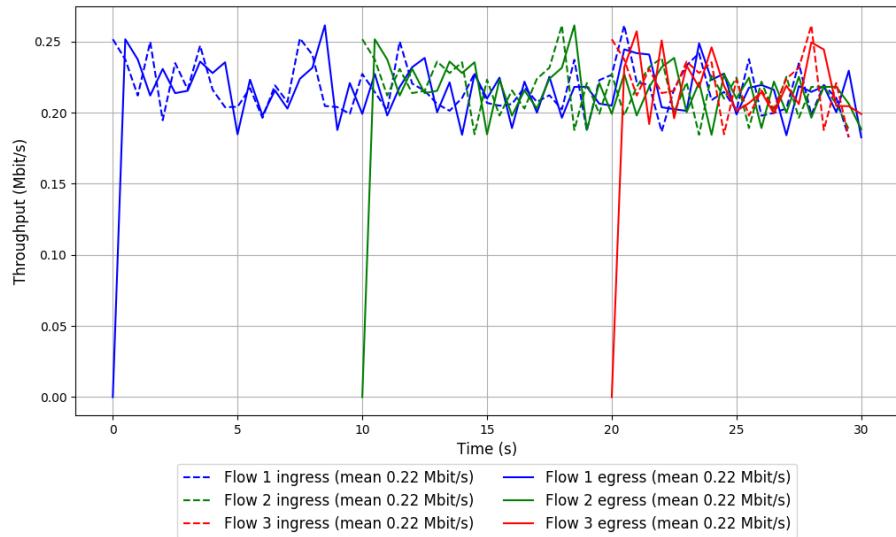


Run 3: Statistics of SCReAM

```
Start at: 2019-03-19 03:25:30
End at: 2019-03-19 03:26:00
Local clock offset: -2.074 ms
Remote clock offset: 0.426 ms

# Below is generated by plot.py at 2019-03-19 04:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.00%
```

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

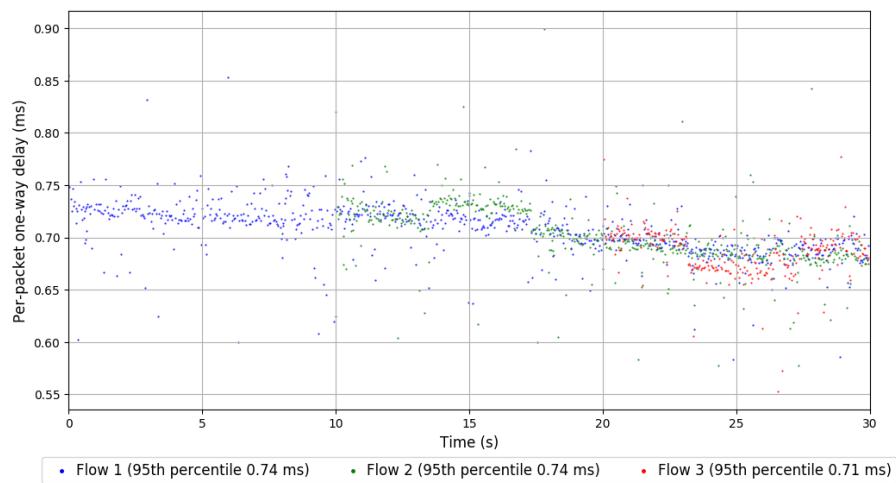
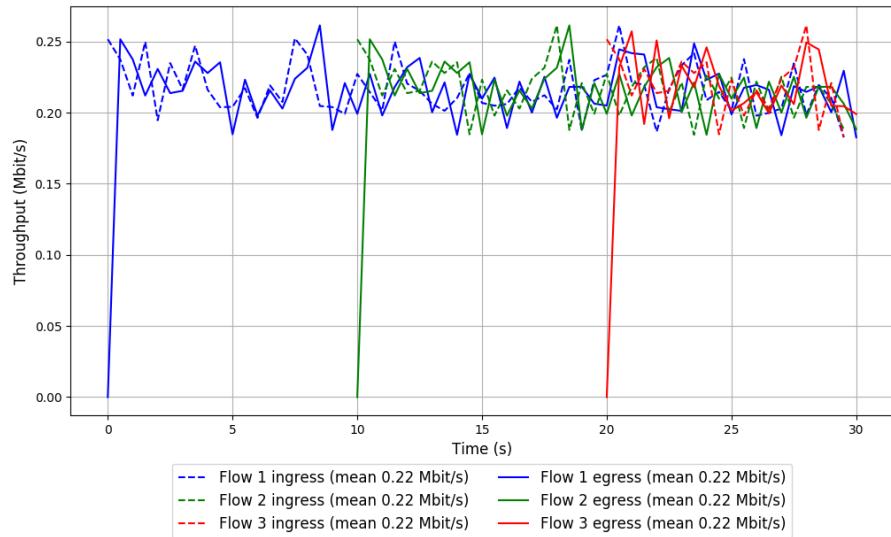


Run 4: Statistics of SCReAM

```
Start at: 2019-03-19 03:49:26
End at: 2019-03-19 03:49:56
Local clock offset: -0.333 ms
Remote clock offset: 0.422 ms

# Below is generated by plot.py at 2019-03-19 04:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 0.740 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.740 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.711 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

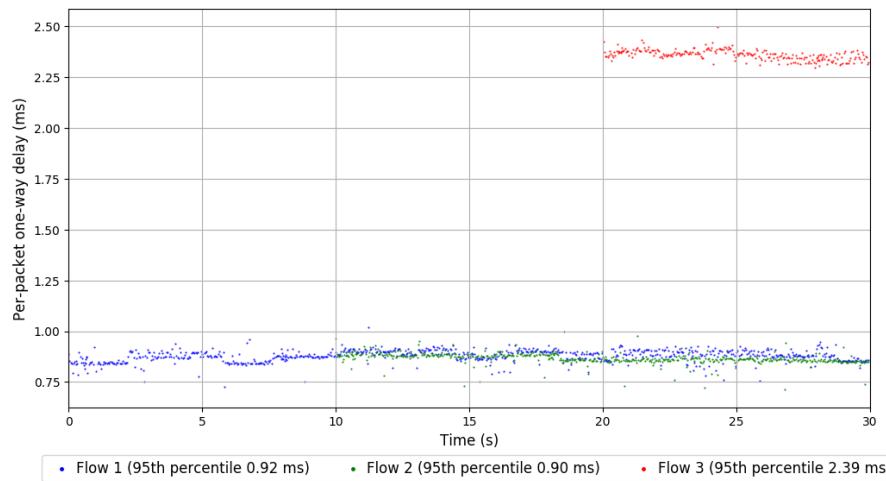
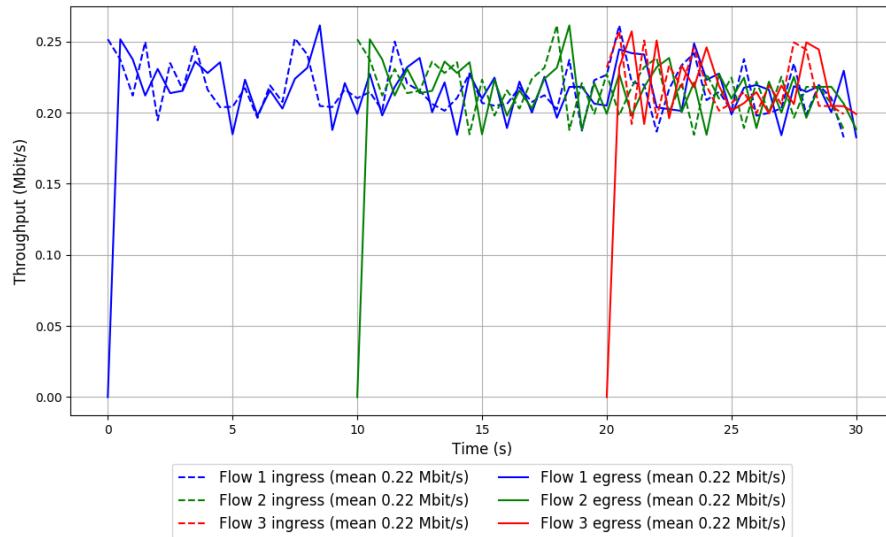


Run 5: Statistics of SCReAM

```
Start at: 2019-03-19 04:13:20
End at: 2019-03-19 04:13:50
Local clock offset: -0.897 ms
Remote clock offset: 0.626 ms

# Below is generated by plot.py at 2019-03-19 04:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.374 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.919 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.901 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.394 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

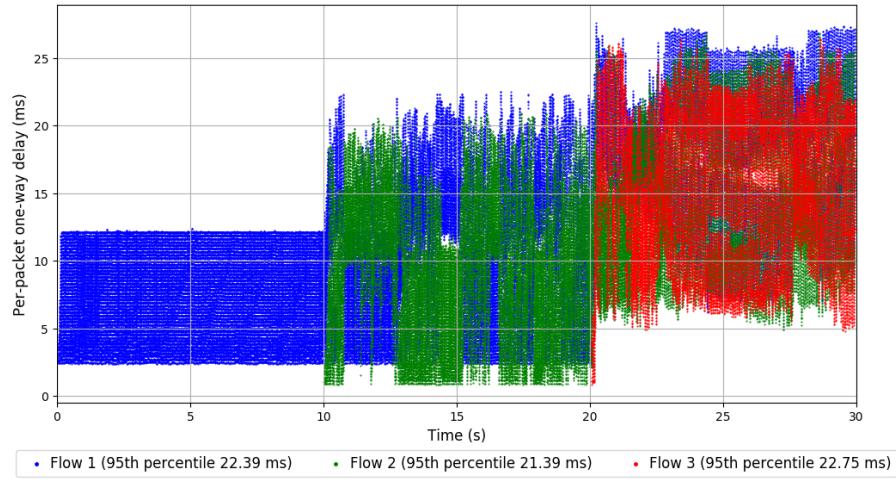
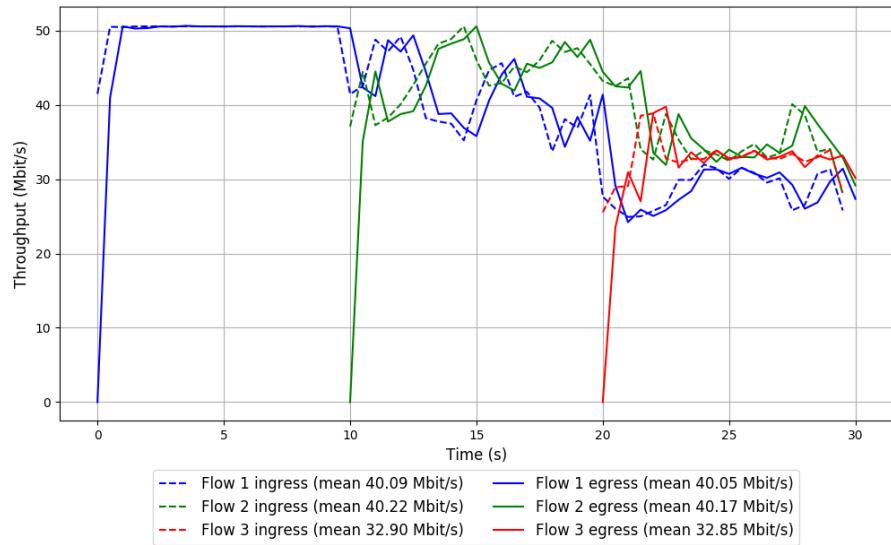


Run 1: Statistics of Sprout

```
Start at: 2019-03-19 02:50:15
End at: 2019-03-19 02:50:45
Local clock offset: -5.166 ms
Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2019-03-19 04:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.64 Mbit/s
95th percentile per-packet one-way delay: 22.243 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 40.05 Mbit/s
95th percentile per-packet one-way delay: 22.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 21.391 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 32.85 Mbit/s
95th percentile per-packet one-way delay: 22.753 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

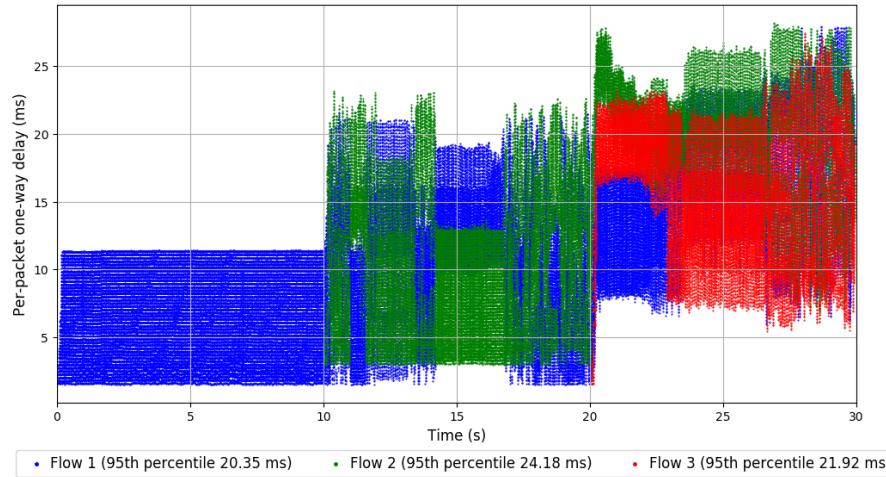
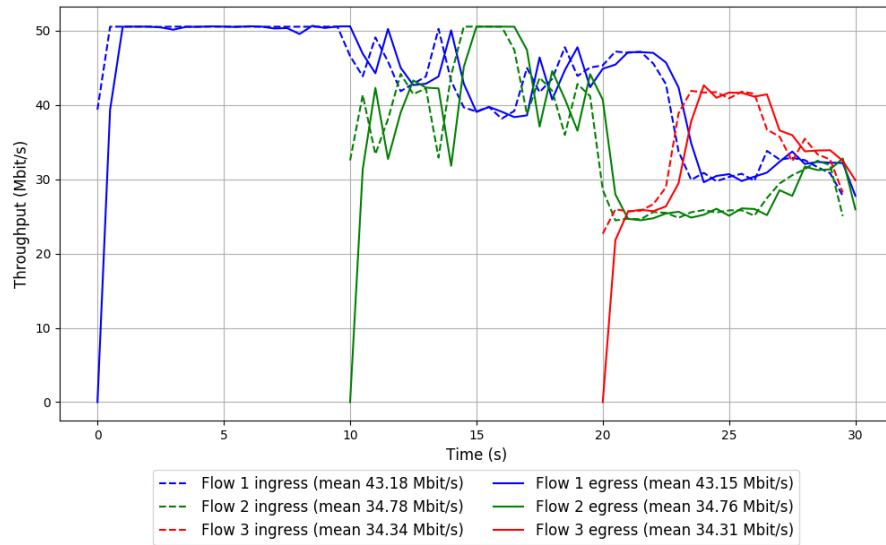


Run 2: Statistics of Sprout

```
Start at: 2019-03-19 03:14:09
End at: 2019-03-19 03:14:39
Local clock offset: -5.695 ms
Remote clock offset: 0.289 ms

# Below is generated by plot.py at 2019-03-19 04:41:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.61 Mbit/s
95th percentile per-packet one-way delay: 22.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.15 Mbit/s
95th percentile per-packet one-way delay: 20.350 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.76 Mbit/s
95th percentile per-packet one-way delay: 24.183 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.31 Mbit/s
95th percentile per-packet one-way delay: 21.924 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

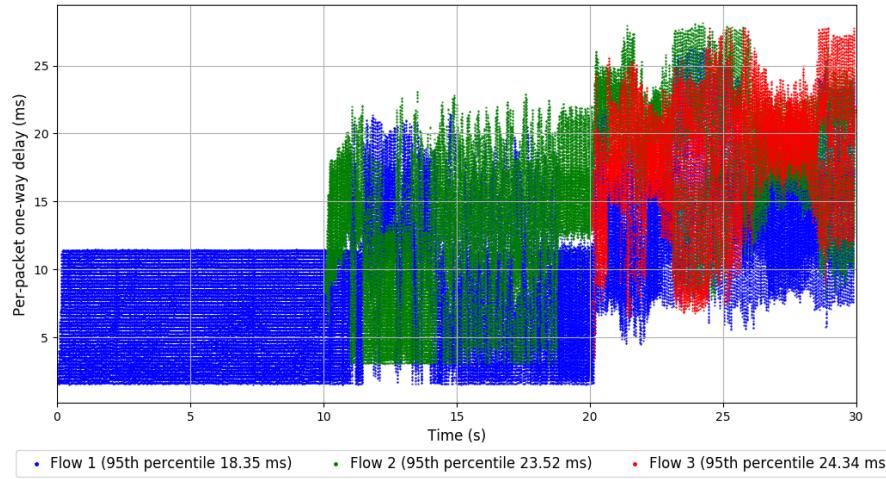
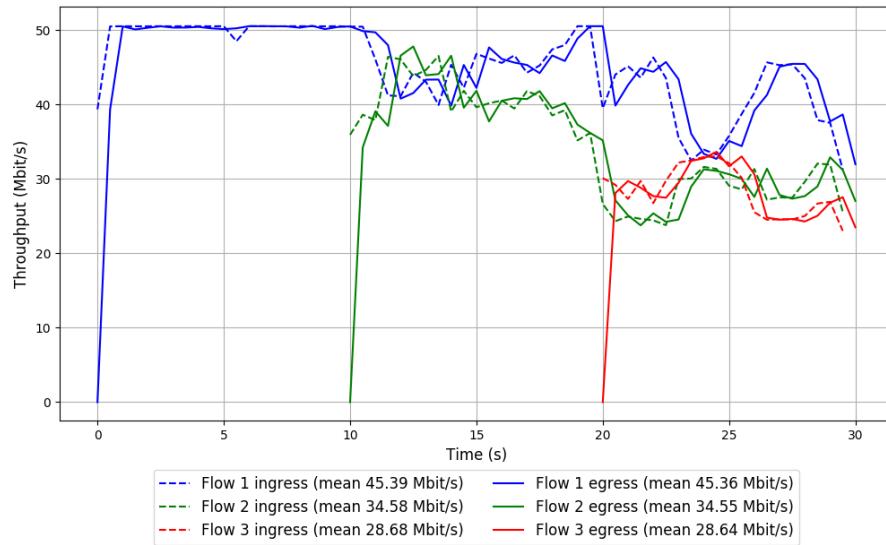


Run 3: Statistics of Sprout

```
Start at: 2019-03-19 03:38:04
End at: 2019-03-19 03:38:34
Local clock offset: -1.229 ms
Remote clock offset: 0.433 ms

# Below is generated by plot.py at 2019-03-19 04:41:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.81 Mbit/s
95th percentile per-packet one-way delay: 22.326 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.36 Mbit/s
95th percentile per-packet one-way delay: 18.353 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 23.523 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.64 Mbit/s
95th percentile per-packet one-way delay: 24.342 ms
Loss rate: 0.00%
```

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

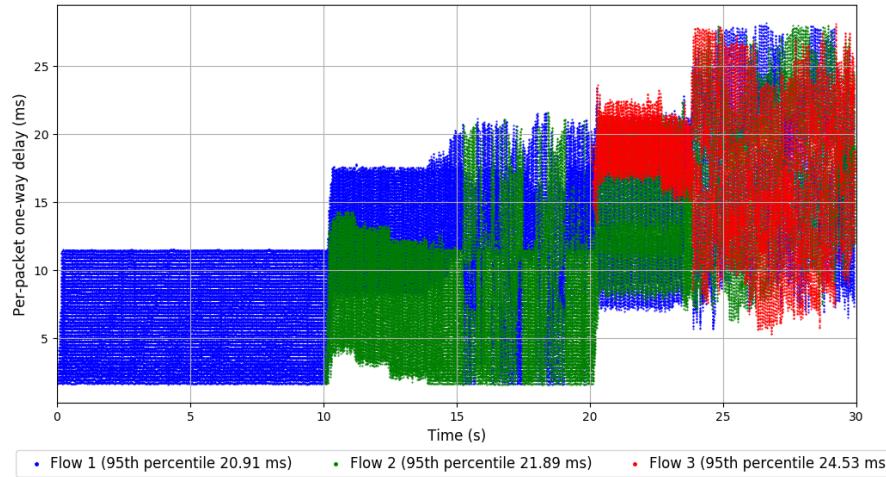
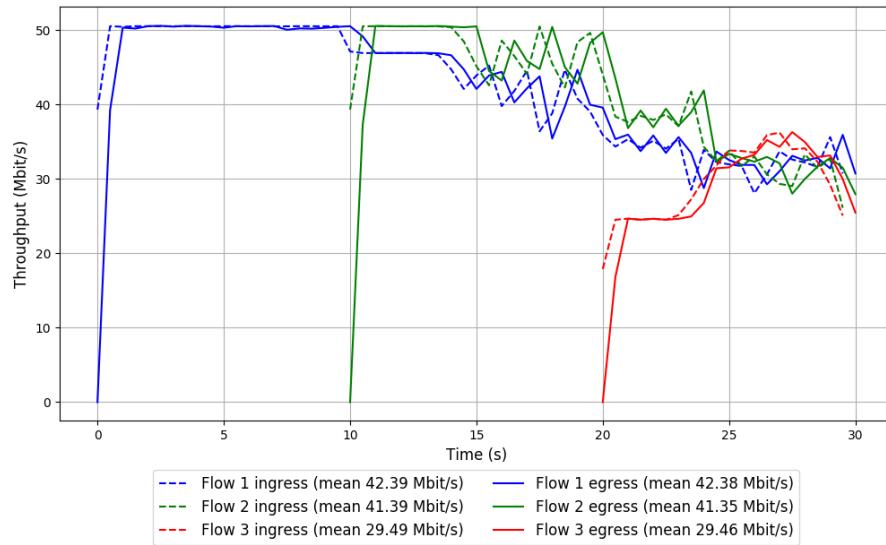


Run 4: Statistics of Sprout

```
Start at: 2019-03-19 04:01:59
End at: 2019-03-19 04:02:29
Local clock offset: -1.748 ms
Remote clock offset: 0.622 ms

# Below is generated by plot.py at 2019-03-19 04:41:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.62 Mbit/s
95th percentile per-packet one-way delay: 22.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 20.911 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.35 Mbit/s
95th percentile per-packet one-way delay: 21.889 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.46 Mbit/s
95th percentile per-packet one-way delay: 24.533 ms
Loss rate: 0.00%
```

## Run 4: Report of Sprout — Data Link

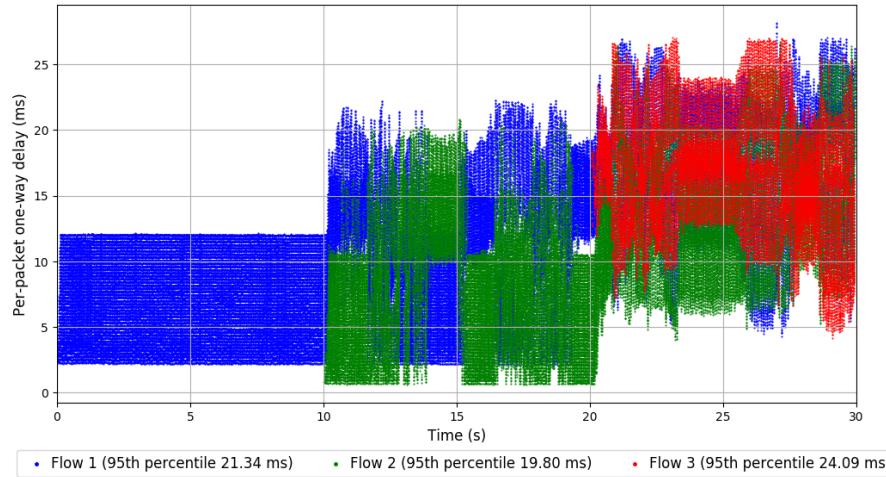
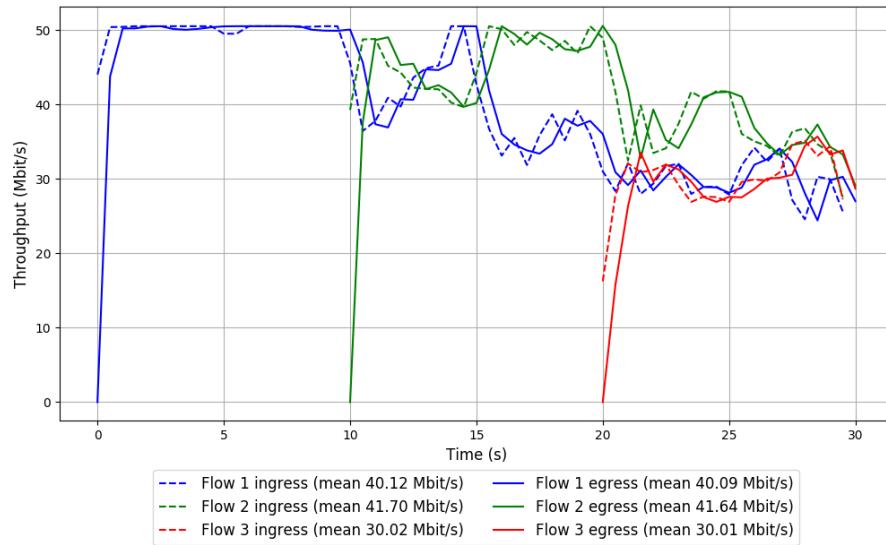


Run 5: Statistics of Sprout

```
Start at: 2019-03-19 04:25:54
End at: 2019-03-19 04:26:24
Local clock offset: -4.774 ms
Remote clock offset: 0.676 ms

# Below is generated by plot.py at 2019-03-19 04:41:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.71 Mbit/s
95th percentile per-packet one-way delay: 21.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 21.344 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.64 Mbit/s
95th percentile per-packet one-way delay: 19.801 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.01 Mbit/s
95th percentile per-packet one-way delay: 24.095 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

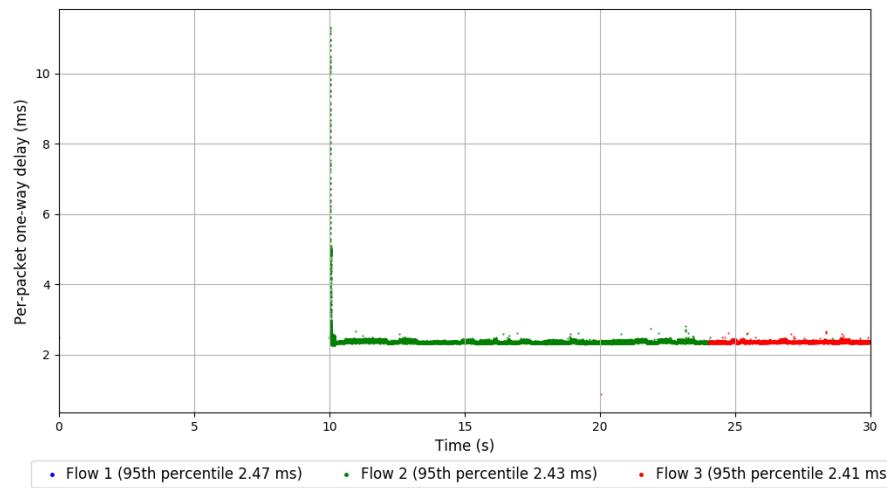
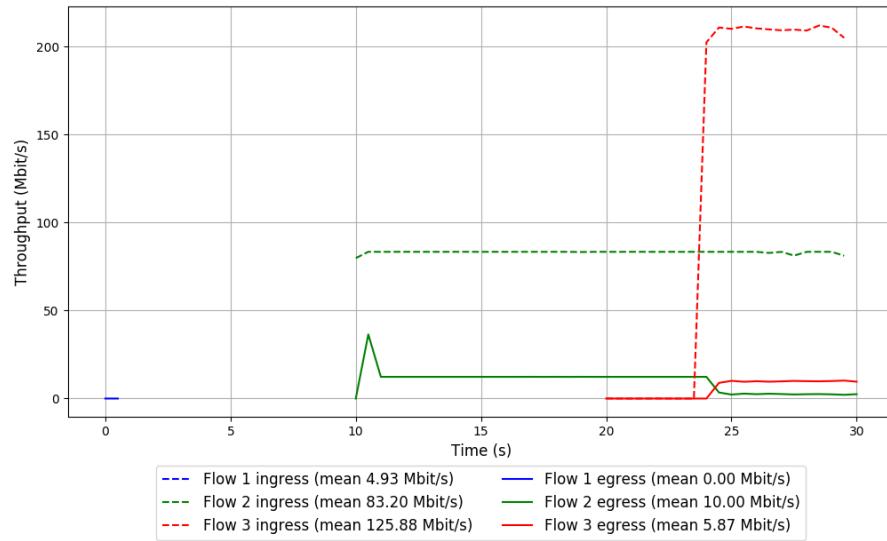


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-03-19 02:52:28
End at: 2019-03-19 02:52:58
Local clock offset: -5.056 ms
Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2019-03-19 04:41:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.429 ms
Loss rate: 91.14%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.474 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 2.433 ms
Loss rate: 87.98%
-- Flow 3:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 2.409 ms
Loss rate: 95.34%
```

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

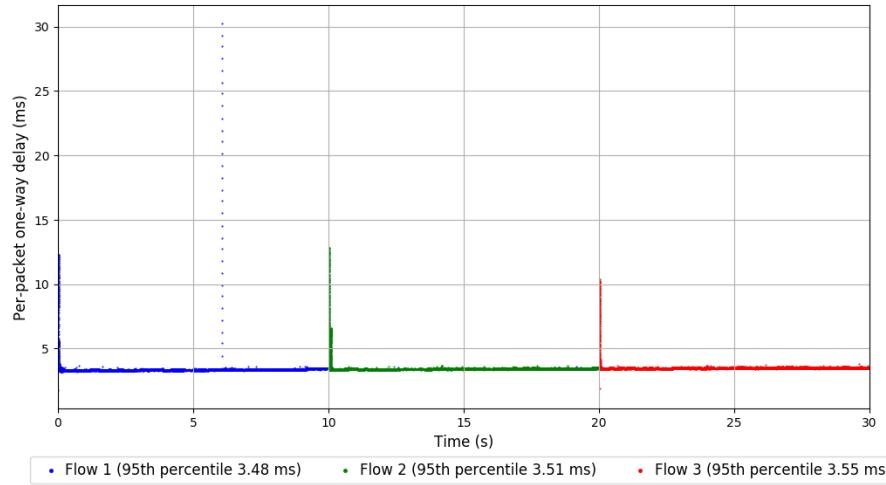
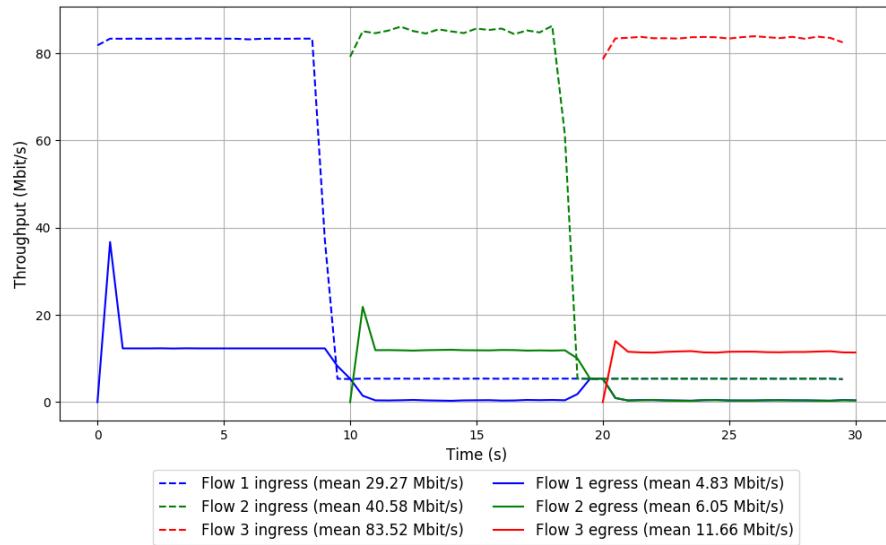


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-03-19 03:16:22
End at: 2019-03-19 03:16:52
Local clock offset: -5.625 ms
Remote clock offset: 0.332 ms

# Below is generated by plot.py at 2019-03-19 04:41:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.540 ms
Loss rate: 84.86%
-- Flow 1:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 3.481 ms
Loss rate: 83.52%
-- Flow 2:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 3.514 ms
Loss rate: 85.10%
-- Flow 3:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 3.552 ms
Loss rate: 86.03%
```

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

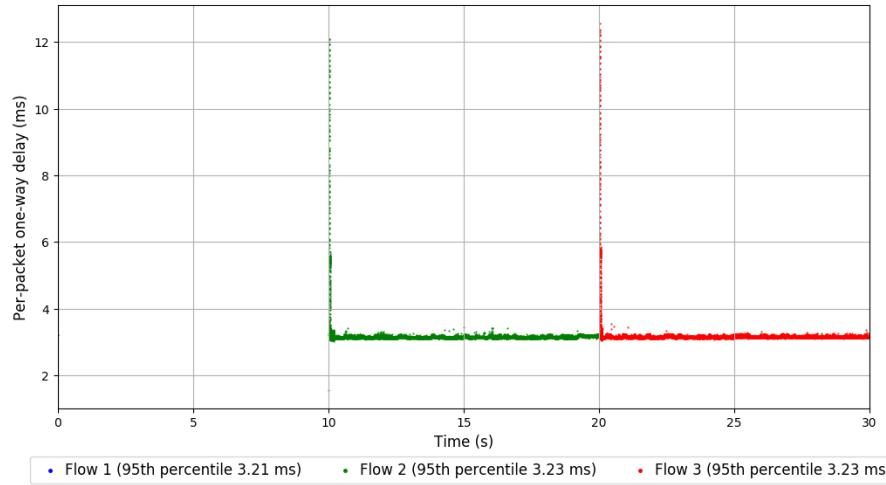
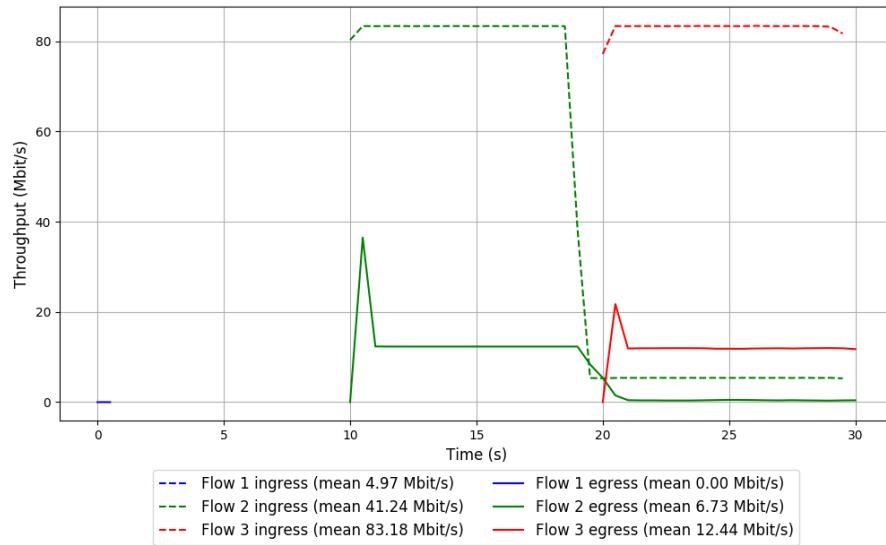


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-03-19 03:40:17
End at: 2019-03-19 03:40:47
Local clock offset: -1.112 ms
Remote clock offset: 0.39 ms

# Below is generated by plot.py at 2019-03-19 04:41:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 3.232 ms
Loss rate: 84.37%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.210 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 3.232 ms
Loss rate: 83.68%
-- Flow 3:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 3.232 ms
Loss rate: 85.05%
```

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

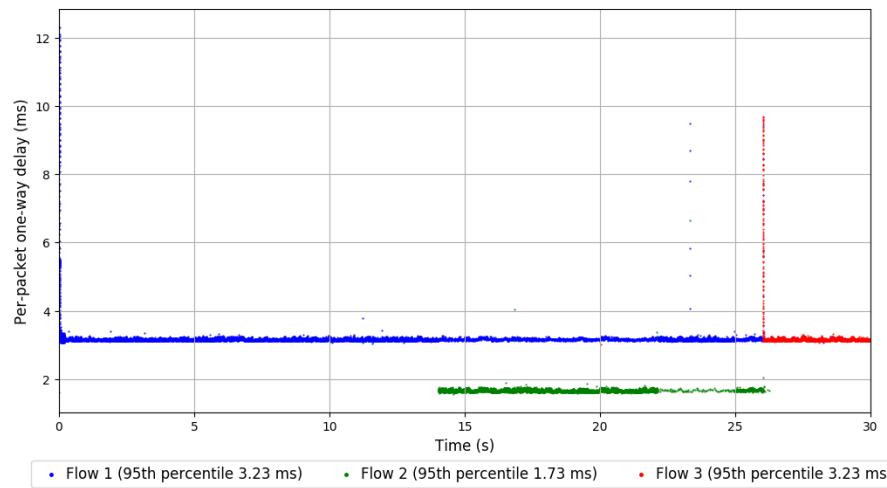
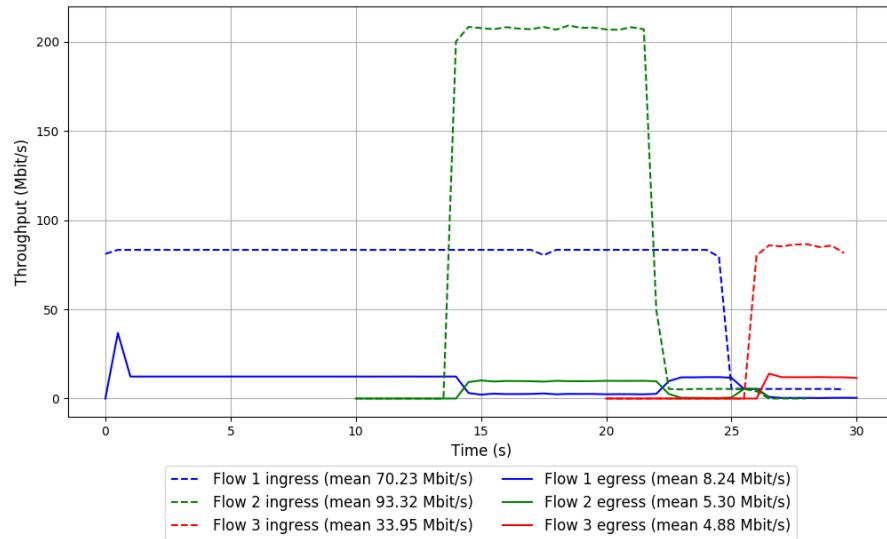


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-03-19 04:04:12
End at: 2019-03-19 04:04:42
Local clock offset: -1.805 ms
Remote clock offset: 0.605 ms

# Below is generated by plot.py at 2019-03-19 04:41:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 3.227 ms
Loss rate: 90.80%
-- Flow 1:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 3.231 ms
Loss rate: 88.27%
-- Flow 2:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 1.730 ms
Loss rate: 94.94%
-- Flow 3:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 3.230 ms
Loss rate: 85.63%
```

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

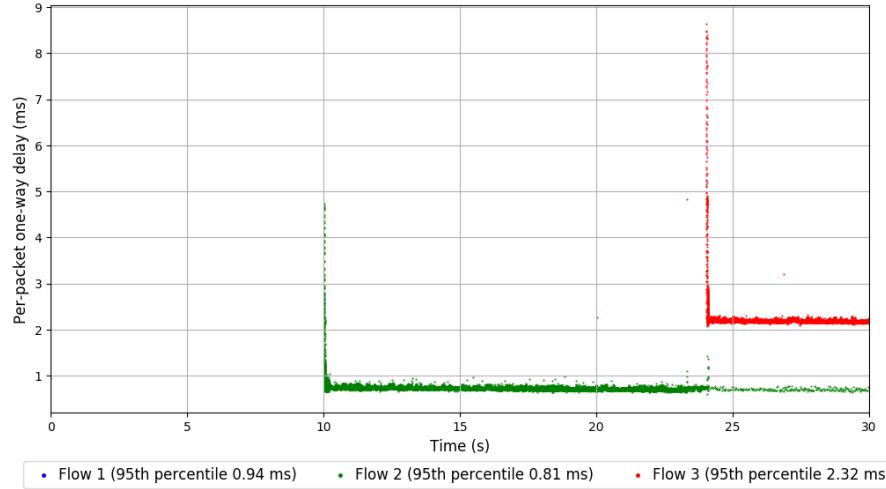
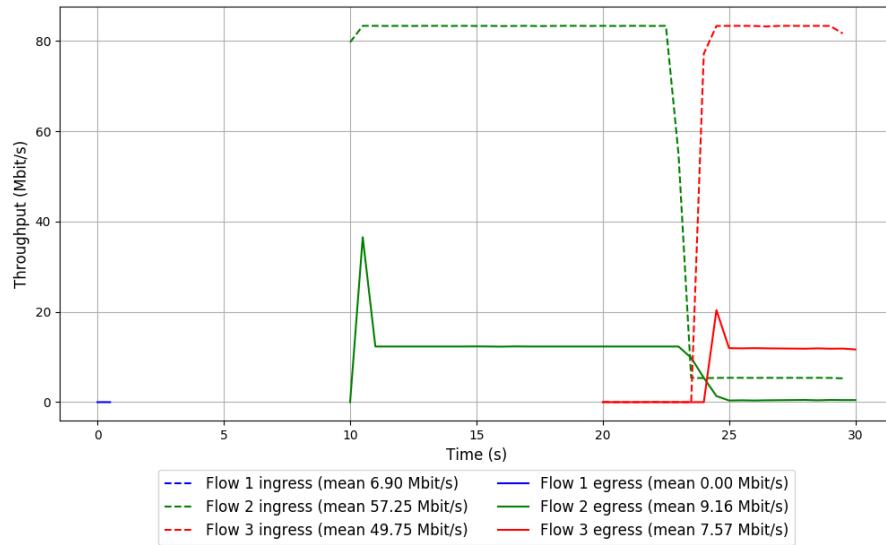


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-03-19 04:28:07
End at: 2019-03-19 04:28:37
Local clock offset: -5.293 ms
Remote clock offset: 0.642 ms

# Below is generated by plot.py at 2019-03-19 04:41:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.225 ms
Loss rate: 84.24%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 0.938 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 0.810 ms
Loss rate: 84.01%
-- Flow 3:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 2.319 ms
Loss rate: 84.78%
```

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

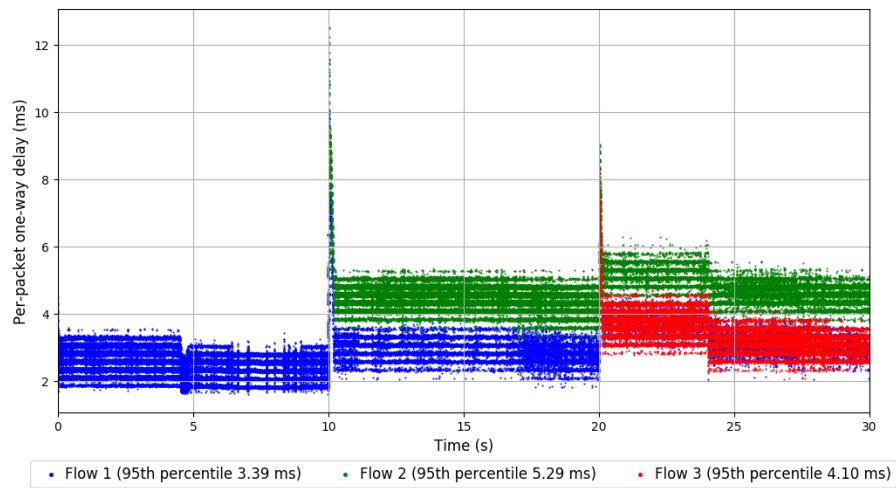
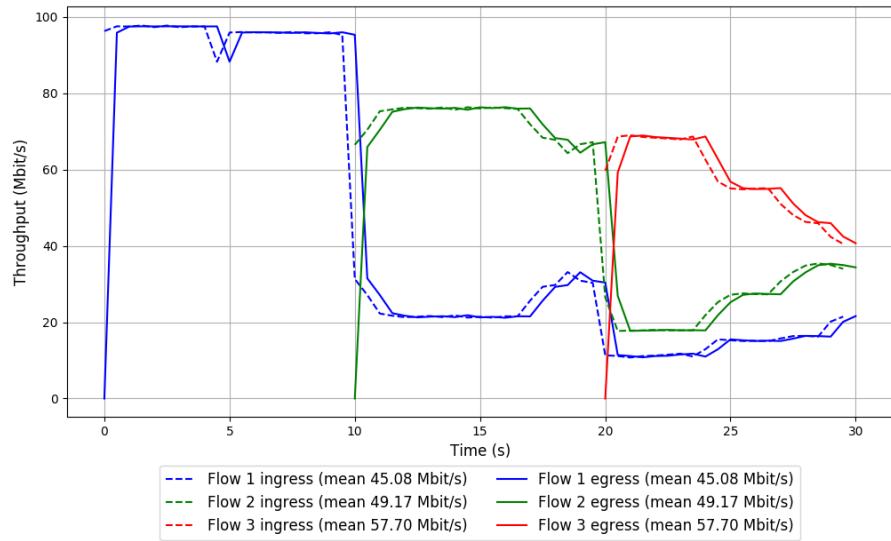


Run 1: Statistics of TCP Vegas

```
Start at: 2019-03-19 02:42:14
End at: 2019-03-19 02:42:44
Local clock offset: -6.068 ms
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2019-03-19 04:42:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 4.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.08 Mbit/s
95th percentile per-packet one-way delay: 3.392 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.17 Mbit/s
95th percentile per-packet one-way delay: 5.289 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 4.096 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

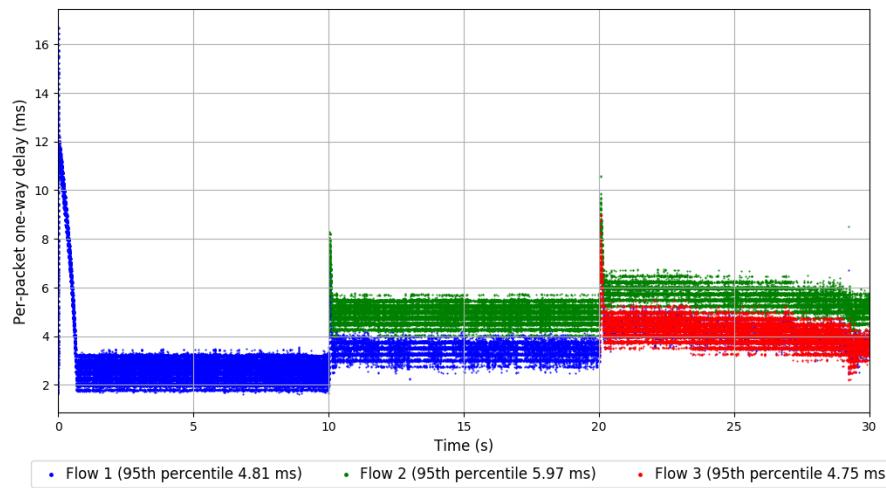
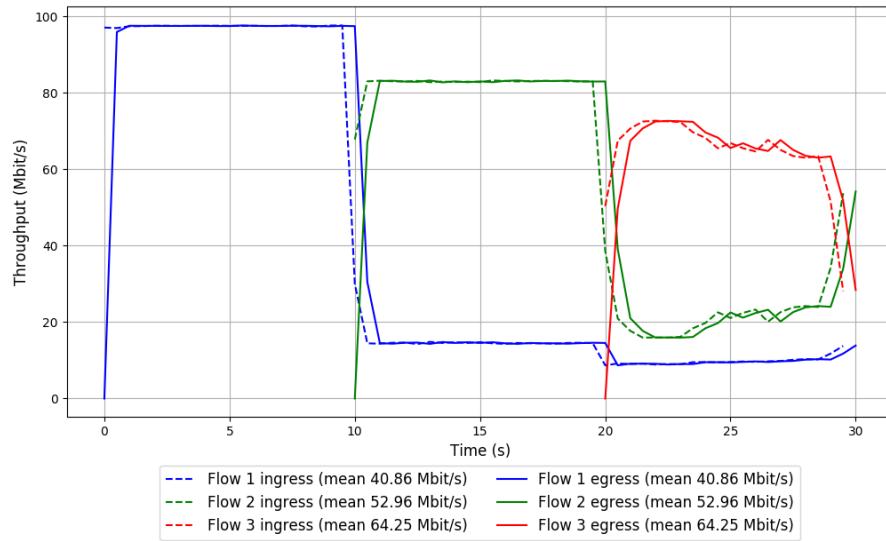


Run 2: Statistics of TCP Vegas

```
Start at: 2019-03-19 03:06:10
End at: 2019-03-19 03:06:40
Local clock offset: -5.714 ms
Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2019-03-19 04:42:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 5.732 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.86 Mbit/s
95th percentile per-packet one-way delay: 4.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.96 Mbit/s
95th percentile per-packet one-way delay: 5.972 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.25 Mbit/s
95th percentile per-packet one-way delay: 4.753 ms
Loss rate: 0.00%
```

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

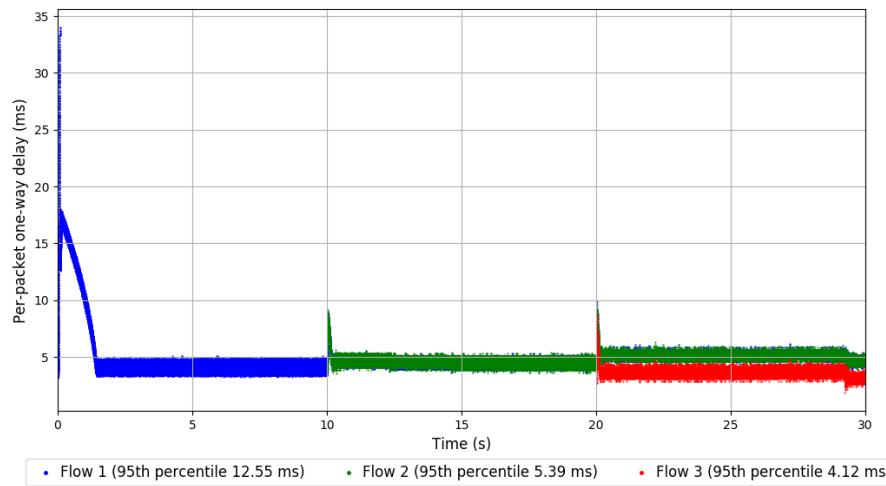
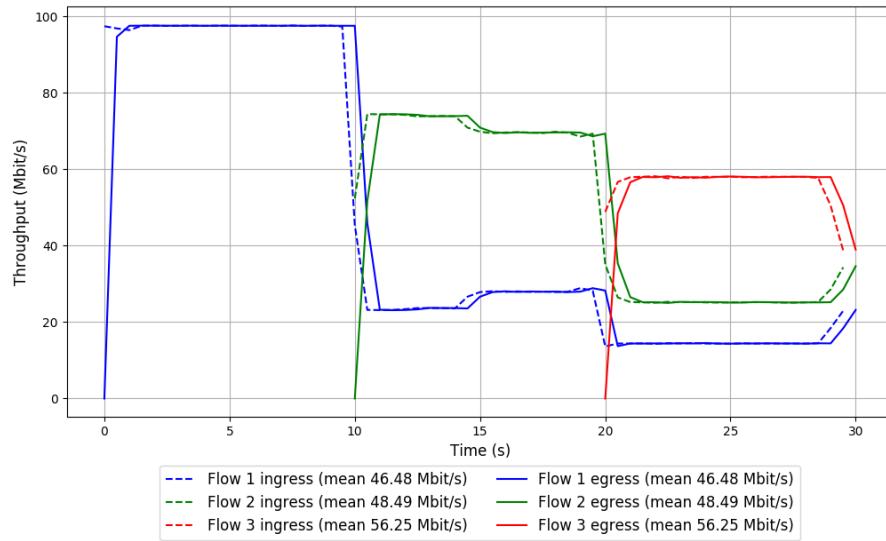


Run 3: Statistics of TCP Vegas

```
Start at: 2019-03-19 03:30:03
End at: 2019-03-19 03:30:33
Local clock offset: -2.103 ms
Remote clock offset: 0.466 ms

# Below is generated by plot.py at 2019-03-19 04:42:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 5.844 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.48 Mbit/s
95th percentile per-packet one-way delay: 12.554 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.49 Mbit/s
95th percentile per-packet one-way delay: 5.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.25 Mbit/s
95th percentile per-packet one-way delay: 4.115 ms
Loss rate: 0.00%
```

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

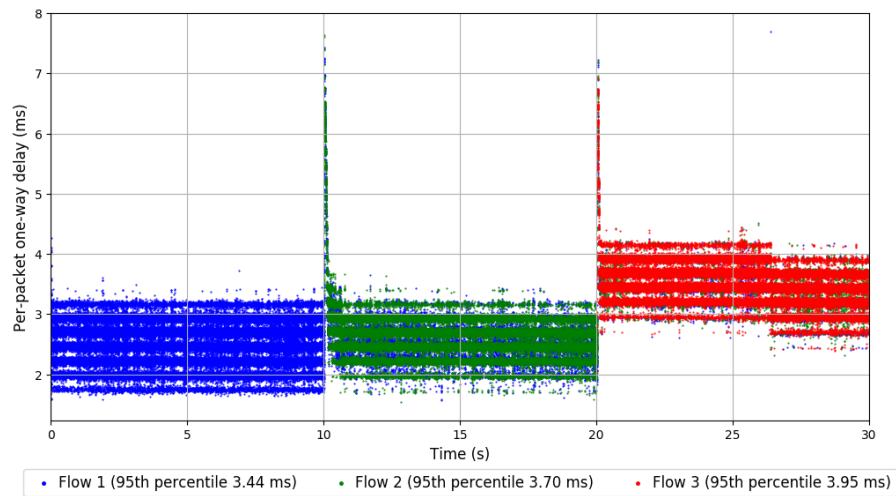
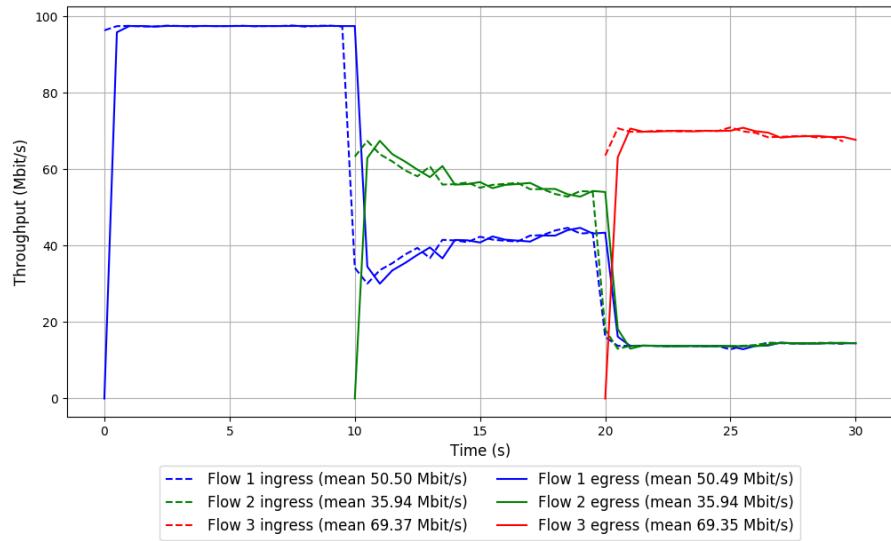


Run 4: Statistics of TCP Vegas

```
Start at: 2019-03-19 03:53:59
End at: 2019-03-19 03:54:29
Local clock offset: -1.493 ms
Remote clock offset: 0.596 ms

# Below is generated by plot.py at 2019-03-19 04:42:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 3.895 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.49 Mbit/s
95th percentile per-packet one-way delay: 3.445 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.94 Mbit/s
95th percentile per-packet one-way delay: 3.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.35 Mbit/s
95th percentile per-packet one-way delay: 3.953 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

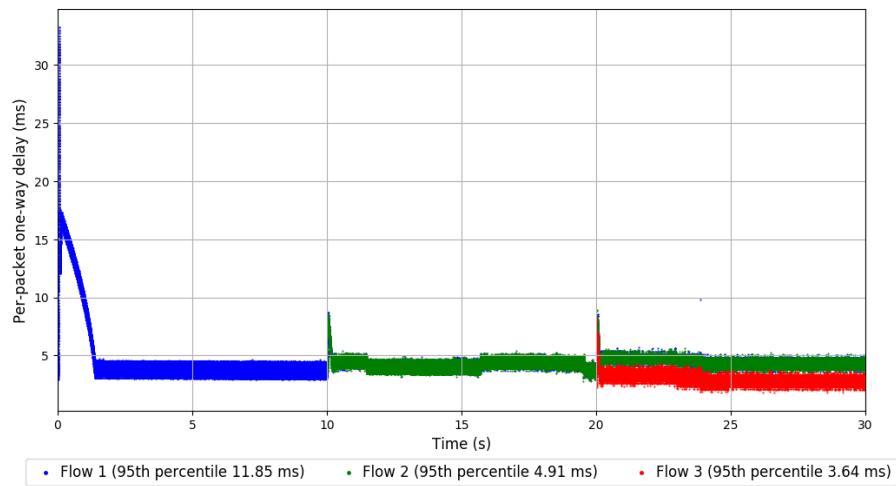
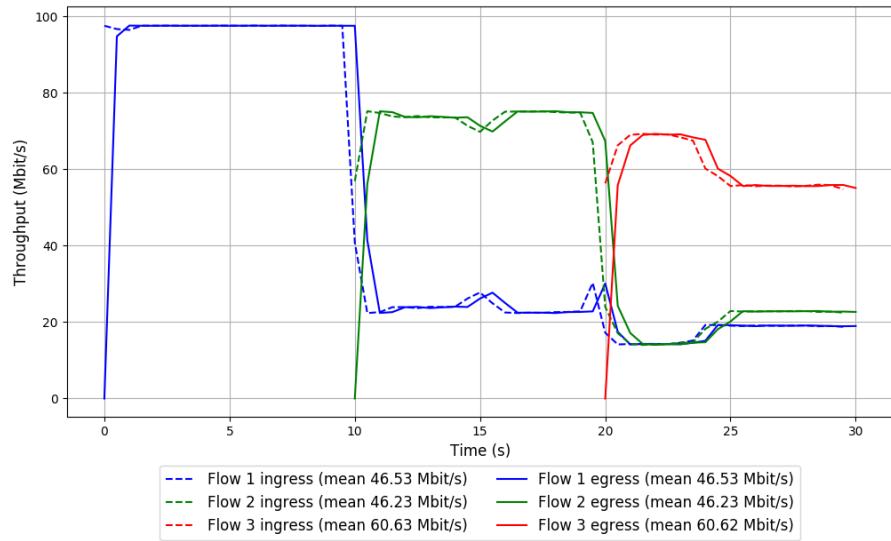


Run 5: Statistics of TCP Vegas

```
Start at: 2019-03-19 04:17:53
End at: 2019-03-19 04:18:23
Local clock offset: -2.627 ms
Remote clock offset: 0.697 ms

# Below is generated by plot.py at 2019-03-19 04:42:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 5.318 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.53 Mbit/s
95th percentile per-packet one-way delay: 11.853 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.23 Mbit/s
95th percentile per-packet one-way delay: 4.908 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.62 Mbit/s
95th percentile per-packet one-way delay: 3.644 ms
Loss rate: 0.00%
```

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

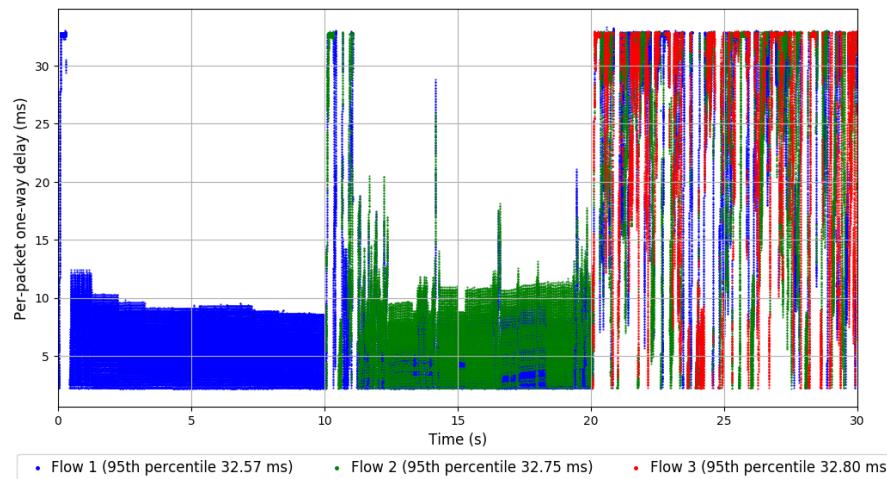
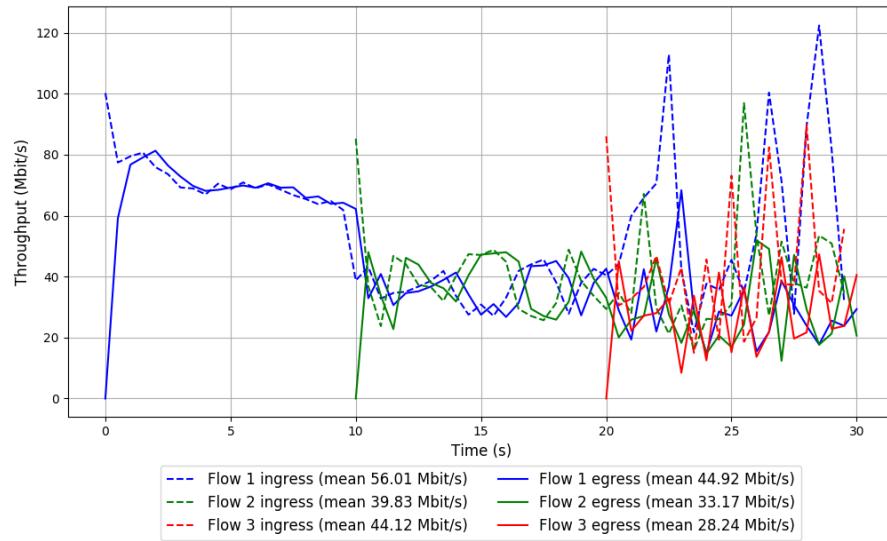


Run 1: Statistics of Verus

```
Start at: 2019-03-19 02:34:17
End at: 2019-03-19 02:34:47
Local clock offset: -5.316 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-03-19 04:42:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.36 Mbit/s
95th percentile per-packet one-way delay: 32.759 ms
Loss rate: 21.31%
-- Flow 1:
Average throughput: 44.92 Mbit/s
95th percentile per-packet one-way delay: 32.566 ms
Loss rate: 19.73%
-- Flow 2:
Average throughput: 33.17 Mbit/s
95th percentile per-packet one-way delay: 32.750 ms
Loss rate: 16.65%
-- Flow 3:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 32.804 ms
Loss rate: 35.85%
```

Run 1: Report of Verus — Data Link

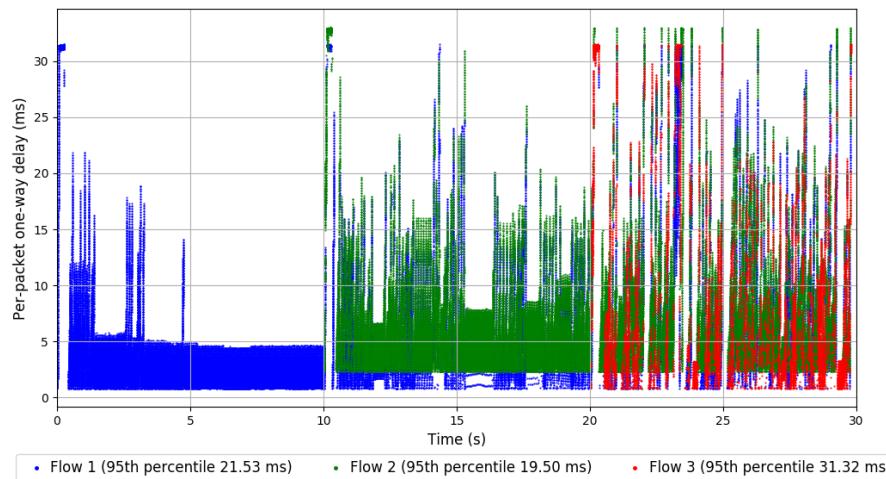
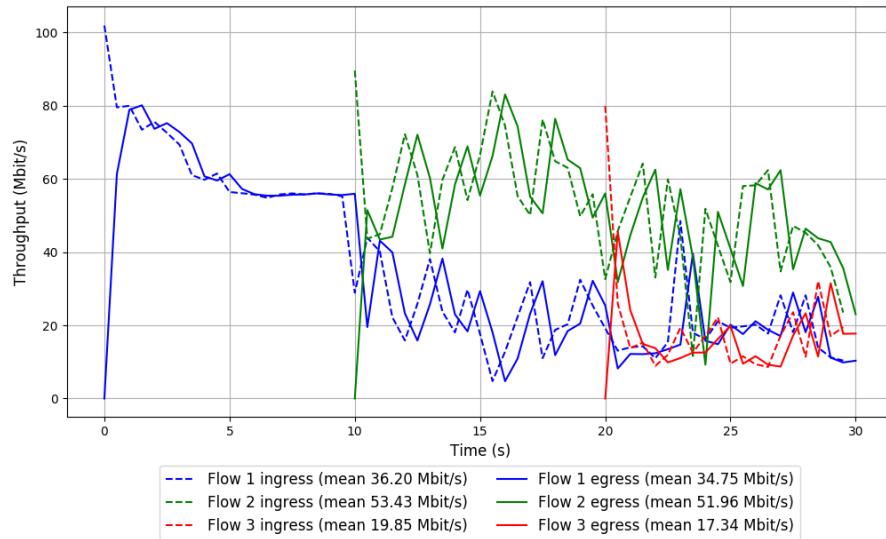


Run 2: Statistics of Verus

```
Start at: 2019-03-19 02:58:12
End at: 2019-03-19 02:58:42
Local clock offset: -5.055 ms
Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2019-03-19 04:42:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.91 Mbit/s
95th percentile per-packet one-way delay: 22.982 ms
Loss rate: 4.04%
-- Flow 1:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 21.532 ms
Loss rate: 3.91%
-- Flow 2:
Average throughput: 51.96 Mbit/s
95th percentile per-packet one-way delay: 19.497 ms
Loss rate: 2.61%
-- Flow 3:
Average throughput: 17.34 Mbit/s
95th percentile per-packet one-way delay: 31.318 ms
Loss rate: 12.51%
```

## Run 2: Report of Verus — Data Link

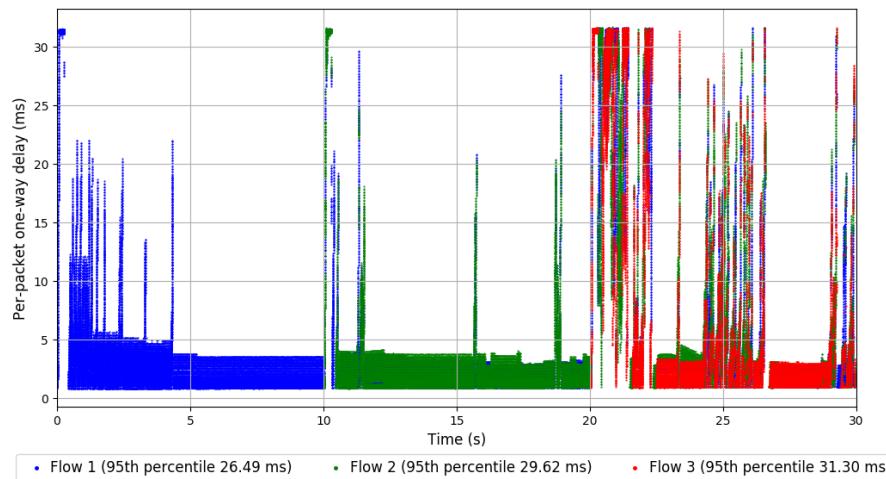
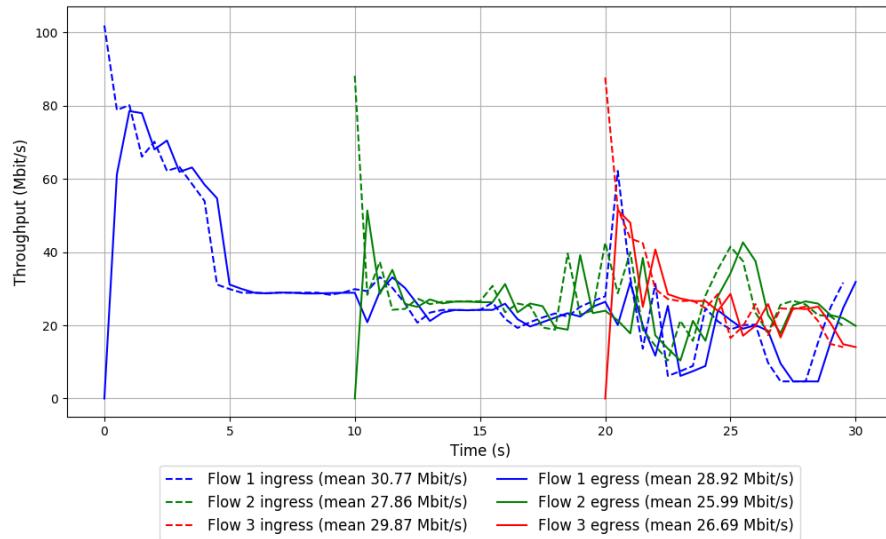


Run 3: Statistics of Verus

```
Start at: 2019-03-19 03:22:06
End at: 2019-03-19 03:22:36
Local clock offset: -2.836 ms
Remote clock offset: 0.31 ms

# Below is generated by plot.py at 2019-03-19 04:42:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.06 Mbit/s
95th percentile per-packet one-way delay: 29.766 ms
Loss rate: 7.00%
-- Flow 1:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 26.490 ms
Loss rate: 6.02%
-- Flow 2:
Average throughput: 25.99 Mbit/s
95th percentile per-packet one-way delay: 29.618 ms
Loss rate: 6.69%
-- Flow 3:
Average throughput: 26.69 Mbit/s
95th percentile per-packet one-way delay: 31.295 ms
Loss rate: 10.64%
```

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

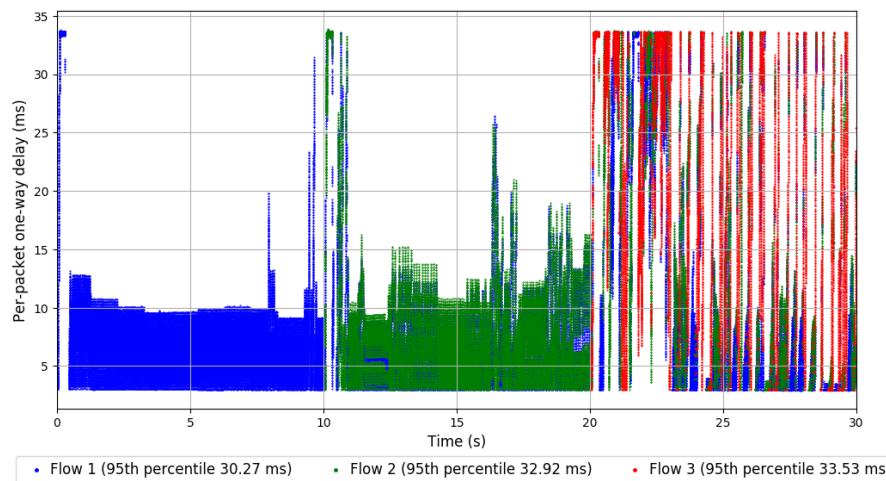
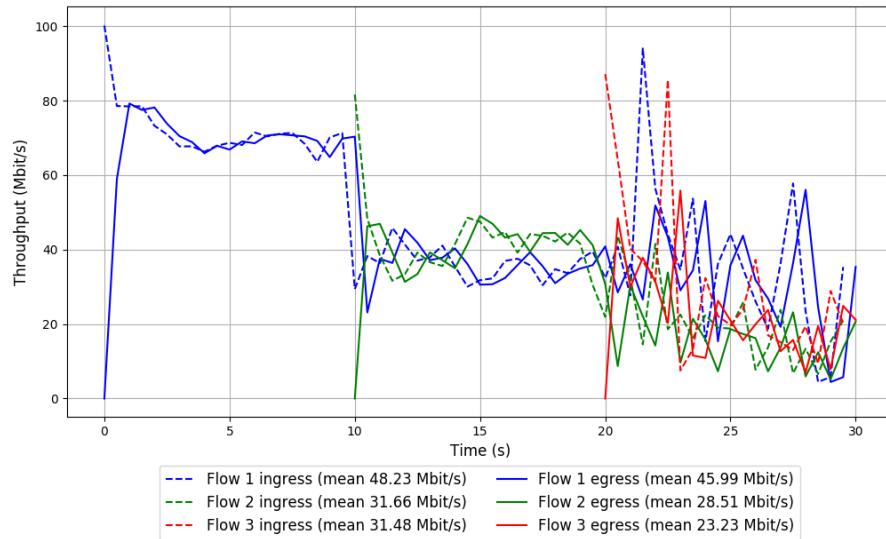


Run 4: Statistics of Verus

```
Start at: 2019-03-19 03:46:01
End at: 2019-03-19 03:46:31
Local clock offset: -0.668 ms
Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2019-03-19 04:43:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 32.972 ms
Loss rate: 8.79%
-- Flow 1:
Average throughput: 45.99 Mbit/s
95th percentile per-packet one-way delay: 30.271 ms
Loss rate: 4.58%
-- Flow 2:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 32.923 ms
Loss rate: 9.86%
-- Flow 3:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 33.532 ms
Loss rate: 26.08%
```

## Run 4: Report of Verus — Data Link

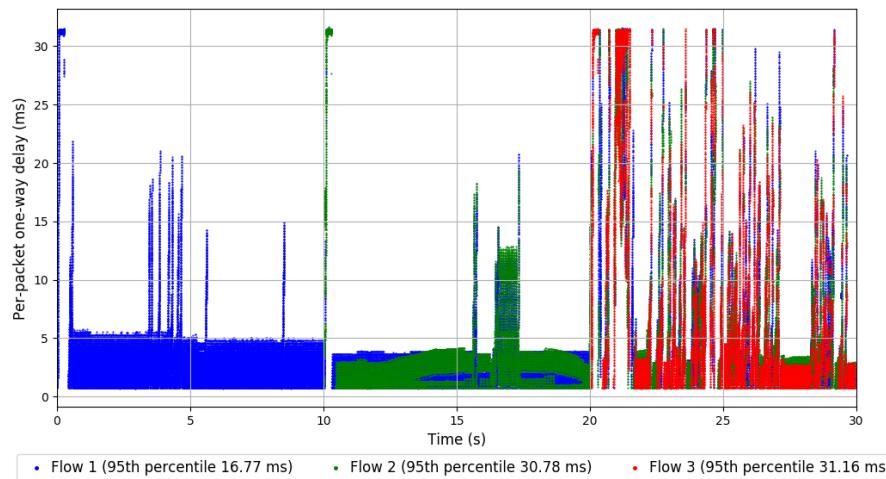
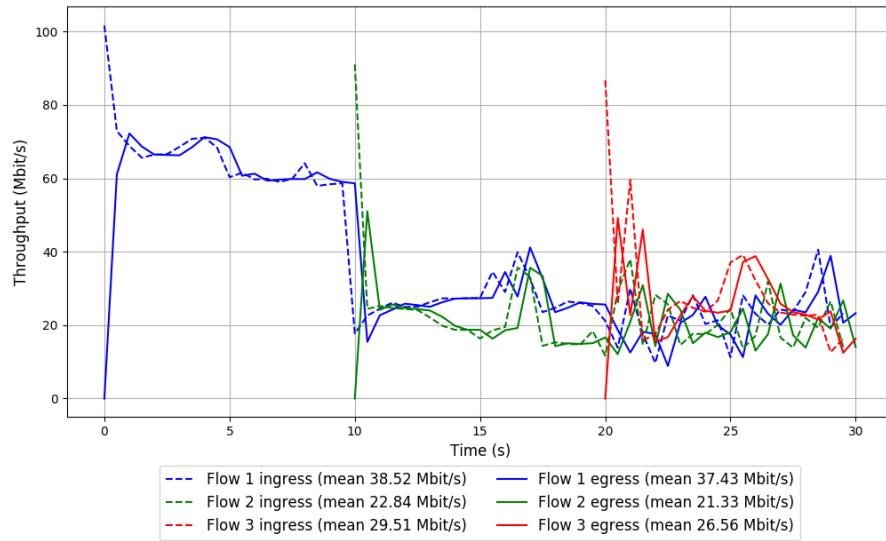


Run 5: Statistics of Verus

```
Start at: 2019-03-19 04:09:57
End at: 2019-03-19 04:10:27
Local clock offset: -0.933 ms
Remote clock offset: 0.65 ms

# Below is generated by plot.py at 2019-03-19 04:43:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.42 Mbit/s
95th percentile per-packet one-way delay: 27.120 ms
Loss rate: 4.86%
-- Flow 1:
Average throughput: 37.43 Mbit/s
95th percentile per-packet one-way delay: 16.774 ms
Loss rate: 2.81%
-- Flow 2:
Average throughput: 21.33 Mbit/s
95th percentile per-packet one-way delay: 30.779 ms
Loss rate: 6.64%
-- Flow 3:
Average throughput: 26.56 Mbit/s
95th percentile per-packet one-way delay: 31.155 ms
Loss rate: 10.15%
```

Run 5: Report of Verus — Data Link

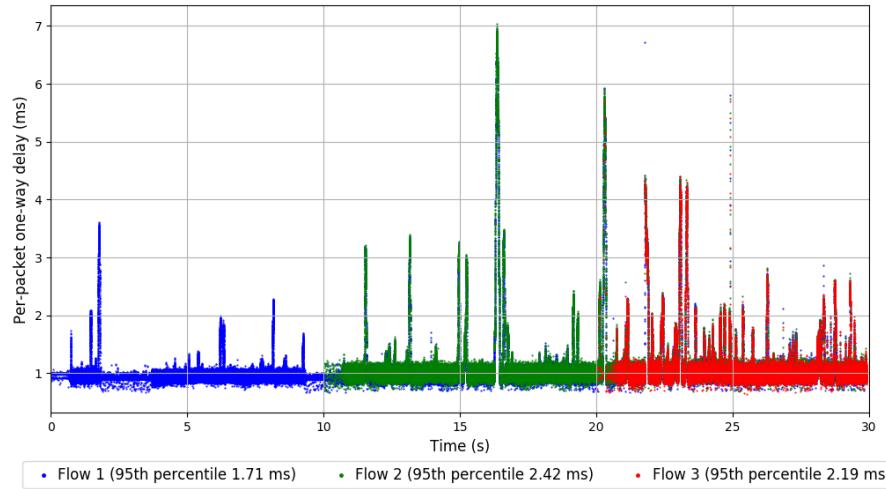
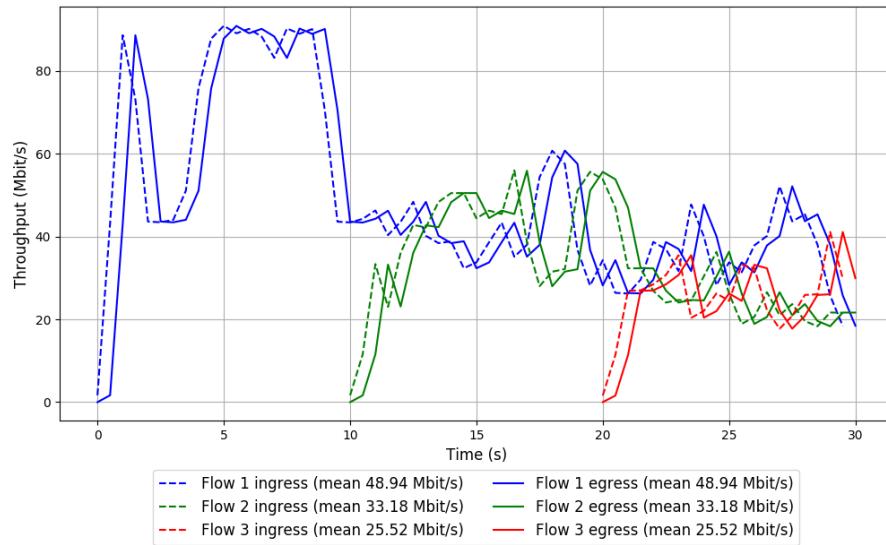


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-03-19 02:41:04
End at: 2019-03-19 02:41:34
Local clock offset: -5.239 ms
Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2019-03-19 04:43:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 1.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.94 Mbit/s
95th percentile per-packet one-way delay: 1.712 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: 2.420 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.52 Mbit/s
95th percentile per-packet one-way delay: 2.195 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

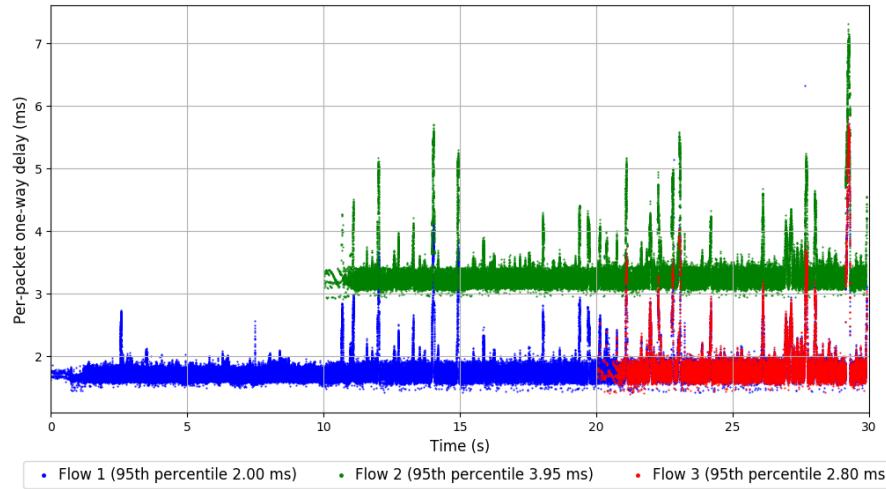
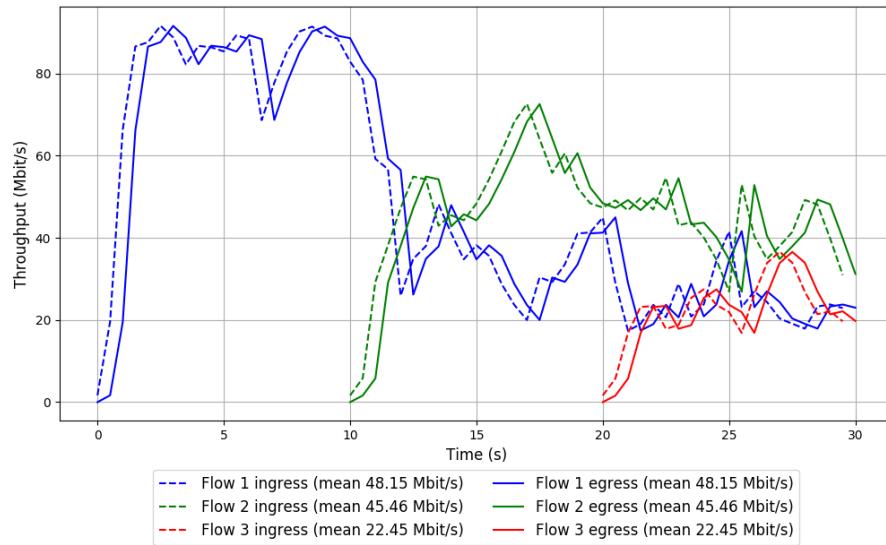


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-03-19 03:05:00
End at: 2019-03-19 03:05:30
Local clock offset: -5.789 ms
Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2019-03-19 04:43:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.80 Mbit/s
95th percentile per-packet one-way delay: 3.428 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.15 Mbit/s
95th percentile per-packet one-way delay: 1.997 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.46 Mbit/s
95th percentile per-packet one-way delay: 3.949 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 2.800 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

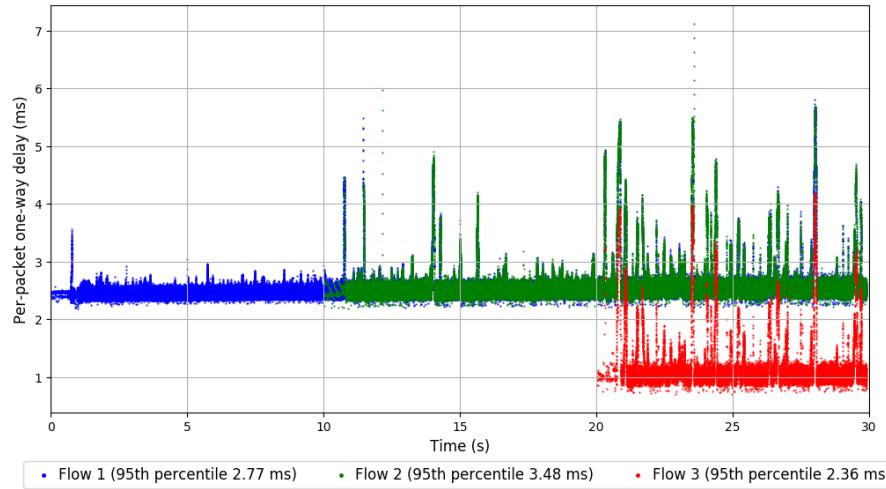
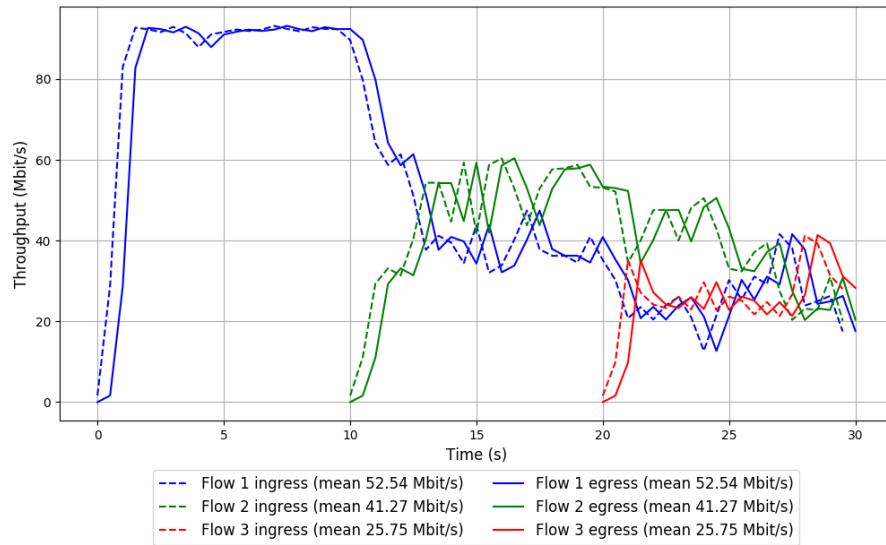


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-03-19 03:28:52
End at: 2019-03-19 03:29:22
Local clock offset: -1.498 ms
Remote clock offset: 0.406 ms

# Below is generated by plot.py at 2019-03-19 04:43:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.49 Mbit/s
95th percentile per-packet one-way delay: 2.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.54 Mbit/s
95th percentile per-packet one-way delay: 2.773 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.27 Mbit/s
95th percentile per-packet one-way delay: 3.480 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.75 Mbit/s
95th percentile per-packet one-way delay: 2.360 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

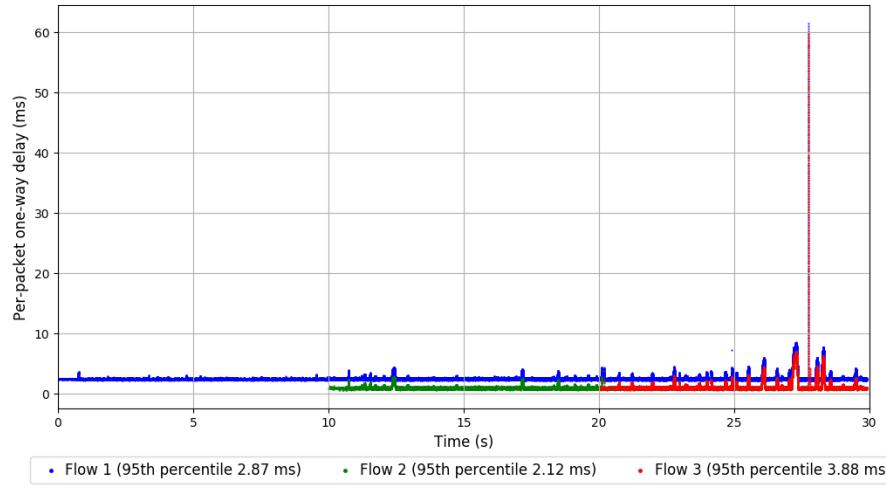
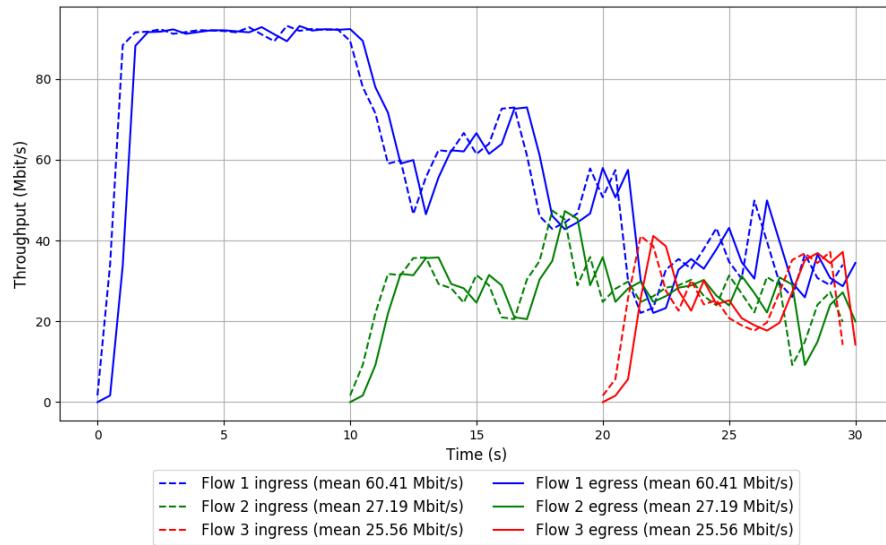


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-03-19 03:52:49
End at: 2019-03-19 03:53:19
Local clock offset: -0.719 ms
Remote clock offset: 0.618 ms

# Below is generated by plot.py at 2019-03-19 04:43:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 2.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 2.868 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.19 Mbit/s
95th percentile per-packet one-way delay: 2.123 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.56 Mbit/s
95th percentile per-packet one-way delay: 3.875 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

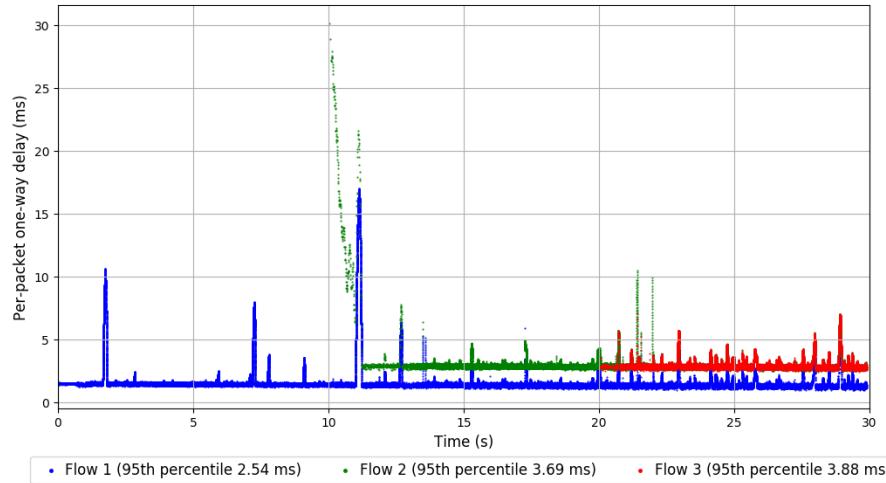
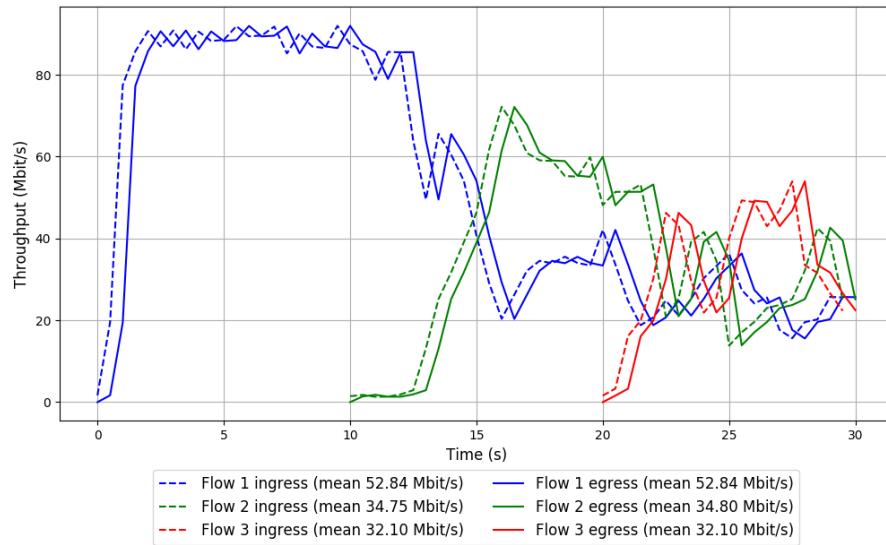


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-03-19 04:16:43
End at: 2019-03-19 04:17:13
Local clock offset: -1.945 ms
Remote clock offset: 0.716 ms

# Below is generated by plot.py at 2019-03-19 04:43:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.55 Mbit/s
95th percentile per-packet one-way delay: 3.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.84 Mbit/s
95th percentile per-packet one-way delay: 2.537 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.80 Mbit/s
95th percentile per-packet one-way delay: 3.690 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 3.876 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

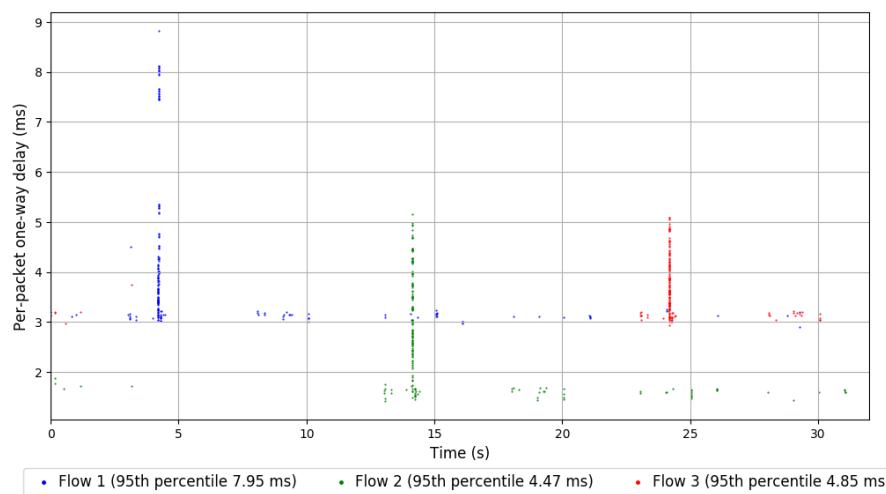
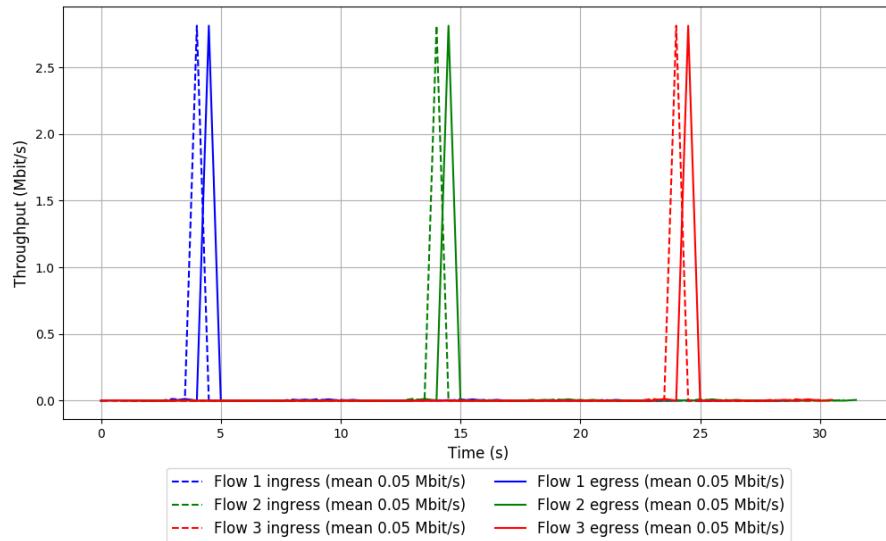


```
Run 1: Statistics of WebRTC media

Start at: 2019-03-19 02:51:22
End at: 2019-03-19 02:51:52
Local clock offset: -5.845 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2019-03-19 04:43:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 5.280 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 7.945 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.472 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.848 ms
Loss rate: 0.00%
```

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

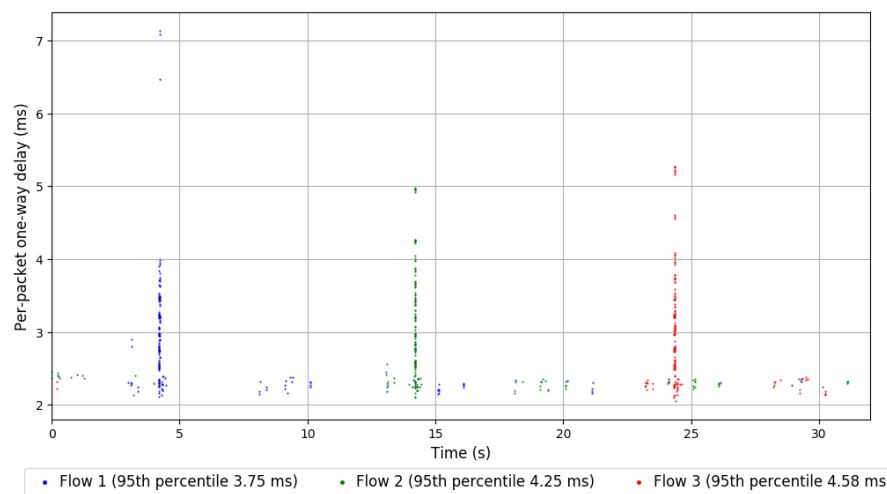
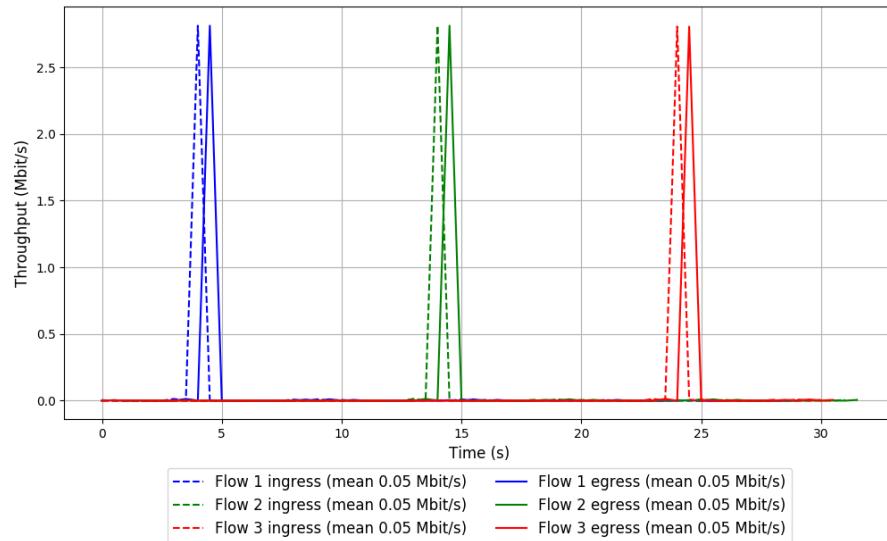


Run 2: Statistics of WebRTC media

```
Start at: 2019-03-19 03:15:17
End at: 2019-03-19 03:15:47
Local clock offset: -4.915 ms
Remote clock offset: 0.273 ms

# Below is generated by plot.py at 2019-03-19 04:43:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.752 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.253 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.584 ms
Loss rate: 0.00%
```

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

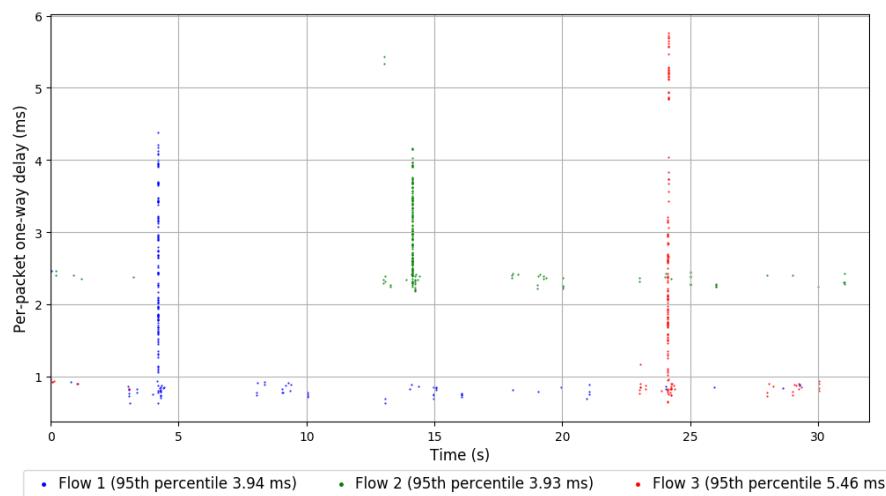
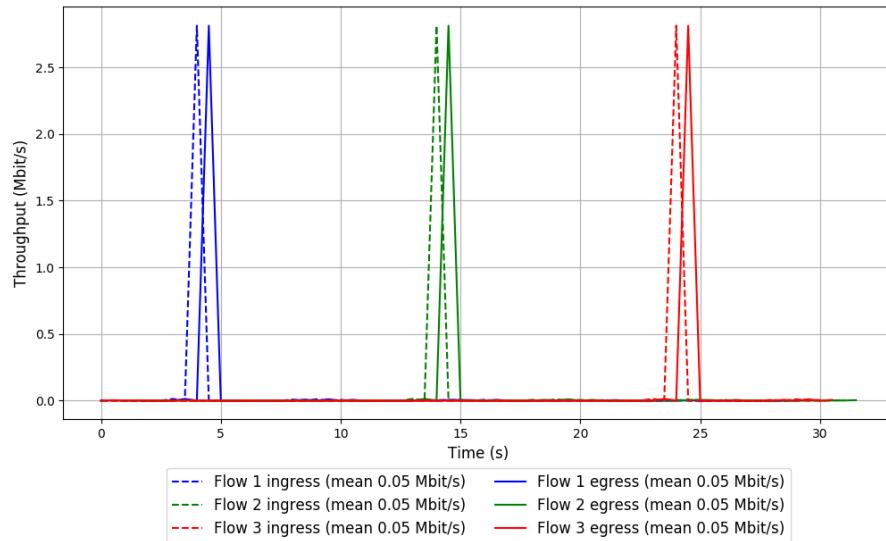


Run 3: Statistics of WebRTC media

```
Start at: 2019-03-19 03:39:11
End at: 2019-03-19 03:39:41
Local clock offset: -0.384 ms
Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2019-03-19 04:43:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.848 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.942 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.928 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.464 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

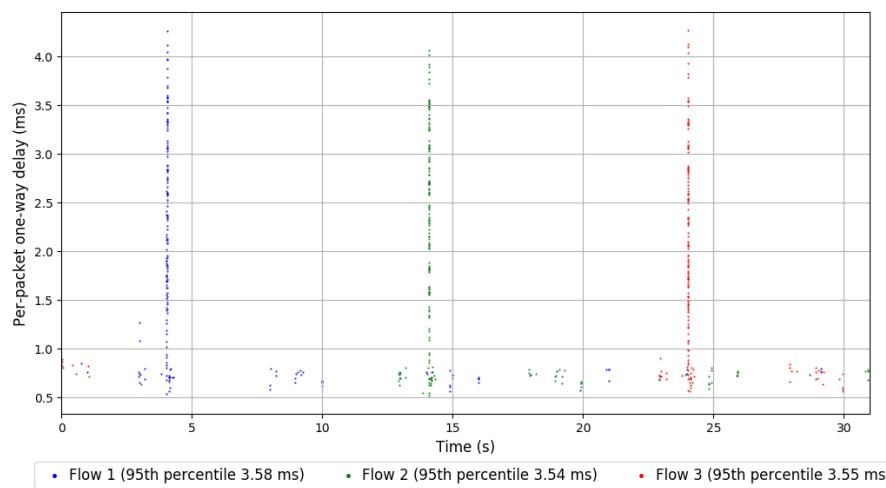
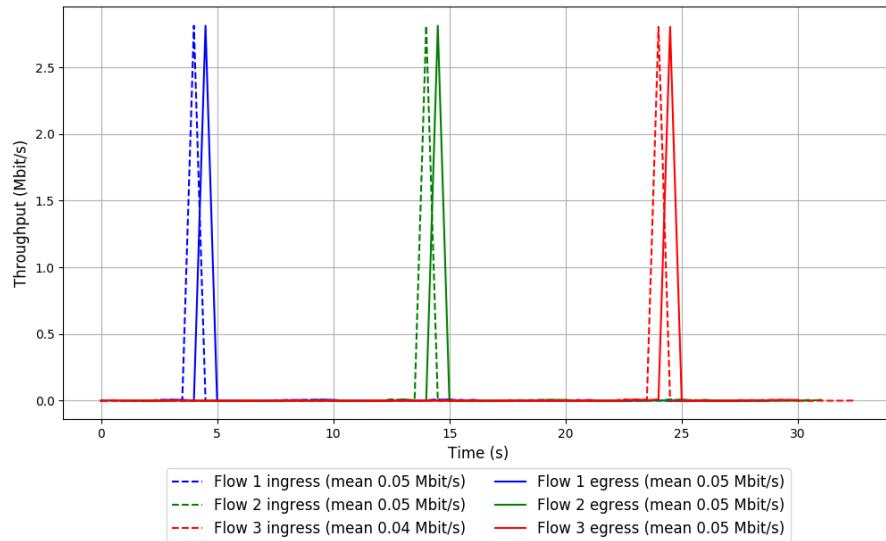


Run 4: Statistics of WebRTC media

```
Start at: 2019-03-19 04:03:06
End at: 2019-03-19 04:03:36
Local clock offset: -0.962 ms
Remote clock offset: 0.5 ms

# Below is generated by plot.py at 2019-03-19 04:43:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 3.566 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.547 ms
Loss rate: 0.05%
```

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



Run 5: Statistics of WebRTC media

```
Start at: 2019-03-19 04:27:02
End at: 2019-03-19 04:27:32
Local clock offset: -5.829 ms
Remote clock offset: 0.671 ms

# Below is generated by plot.py at 2019-03-19 04:43:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.378 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.617 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.652 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

