

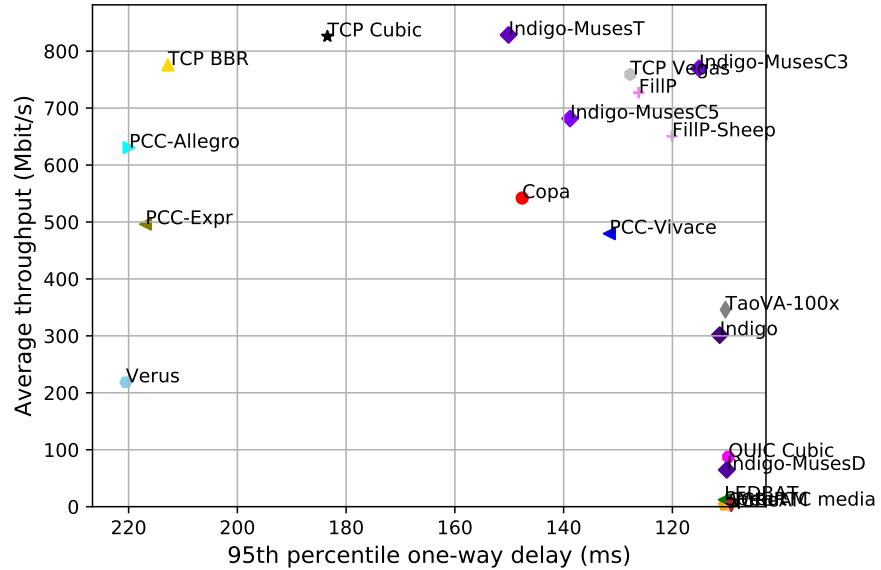
## Pantheon Report

Generated at 2019-01-21 15:20:02 (UTC).  
Data path: GCE Tokyo on `ens4` (*local*) → GCE London on `ens4` (*remote*).  
Repeated the test of 21 congestion control schemes 5 times.  
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.  
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

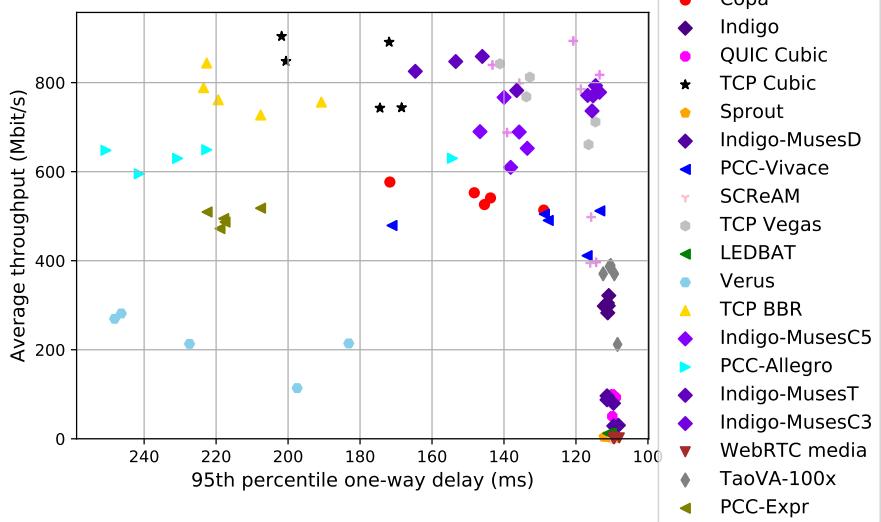
```
System info:  
Linux 4.15.0-1026-gcp  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38  
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde  
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 GCE Tokyo to GCE London, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Tokyo to GCE London, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows



4

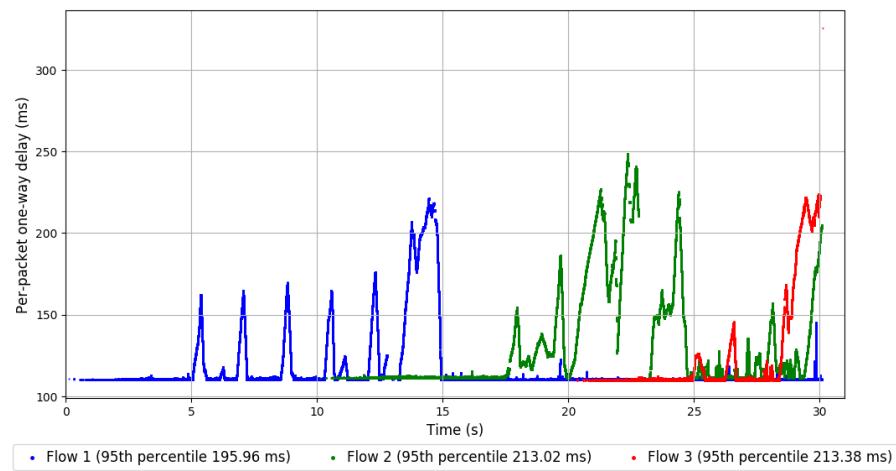
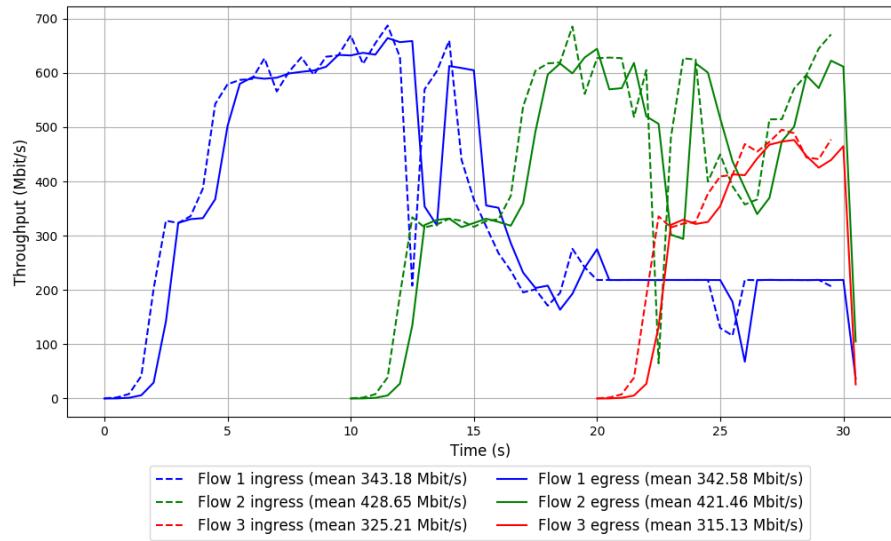
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	403.68	399.05	320.28	210.25	214.15	164.03	0.86	1.37	1.02
Copa	5	290.81	257.23	239.63	138.20	145.20	167.48	0.05	0.04	0.07
TCP Cubic	5	442.68	408.39	335.07	170.05	185.97	166.01	0.04	0.22	0.26
FillP	5	416.01	344.71	246.62	134.50	113.52	112.39	0.26	0.00	0.01
FillP-Sheep	5	361.39	321.18	227.41	124.72	113.73	112.57	0.04	0.01	0.01
Indigo	5	153.92	154.57	139.76	111.22	111.08	111.65	0.00	0.03	0.01
Indigo-MusesC3	5	453.84	372.38	282.90	116.40	114.42	112.80	0.00	0.00	0.05
Indigo-MusesC5	5	414.65	358.06	148.93	138.76	141.01	113.07	0.03	0.00	0.07
Indigo-MusesD	5	36.18	38.58	12.78	109.85	109.04	108.89	0.00	0.00	0.00
Indigo-MusesT	4	504.25	413.98	199.07	159.52	139.14	112.68	0.09	0.01	0.01
LEDBAT	5	7.88	5.21	2.54	109.93	110.17	110.43	0.00	0.04	0.00
PCC-Allegro	5	363.62	277.32	250.63	224.97	179.15	216.51	2.56	0.36	3.50
PCC-Expr	5	287.21	226.29	176.85	212.40	188.95	178.19	2.45	1.75	1.38
QUIC Cubic	5	40.15	50.34	42.71	109.77	109.67	109.56	0.00	0.00	0.00
SCReAM	5	0.22	0.22	0.22	109.30	109.58	109.01	0.00	0.00	0.00
Sprout	5	1.03	1.88	1.60	109.44	109.98	110.20	0.00	0.00	0.00
TaoVA-100x	5	159.97	188.29	182.16	109.64	110.54	109.81	0.00	0.00	0.00
TCP Vegas	5	420.36	353.37	310.55	124.92	125.73	152.41	0.00	0.01	0.04
Verus	5	135.05	103.59	46.35	234.80	184.51	117.27	2.47	0.49	0.01
PCC-Vivace	5	301.41	194.08	148.37	140.10	111.16	133.11	0.13	0.00	0.02
WebRTC media	5	1.22	0.51	0.12	108.97	109.37	108.67	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-21 09:20:29
End at: 2019-01-21 09:20:59
Local clock offset: -0.714 ms
Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-01-21 12:35:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 727.35 Mbit/s
95th percentile per-packet one-way delay: 207.620 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 342.58 Mbit/s
95th percentile per-packet one-way delay: 195.963 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 421.46 Mbit/s
95th percentile per-packet one-way delay: 213.021 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 315.13 Mbit/s
95th percentile per-packet one-way delay: 213.378 ms
Loss rate: 2.65%
```

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

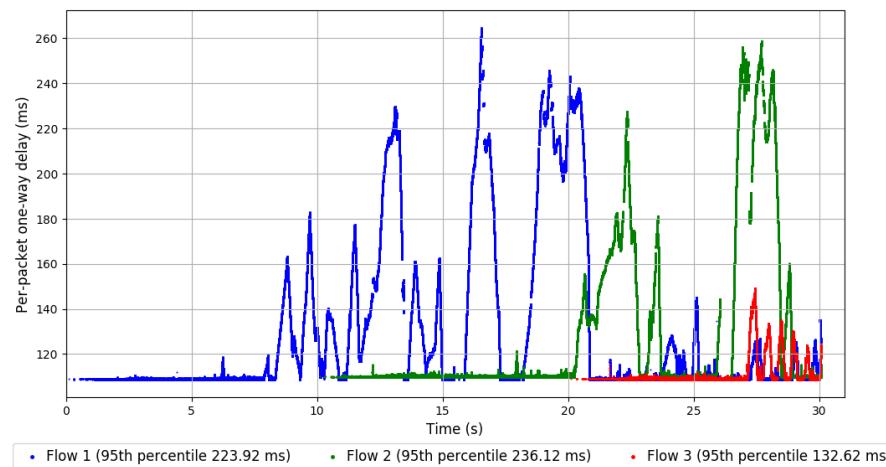
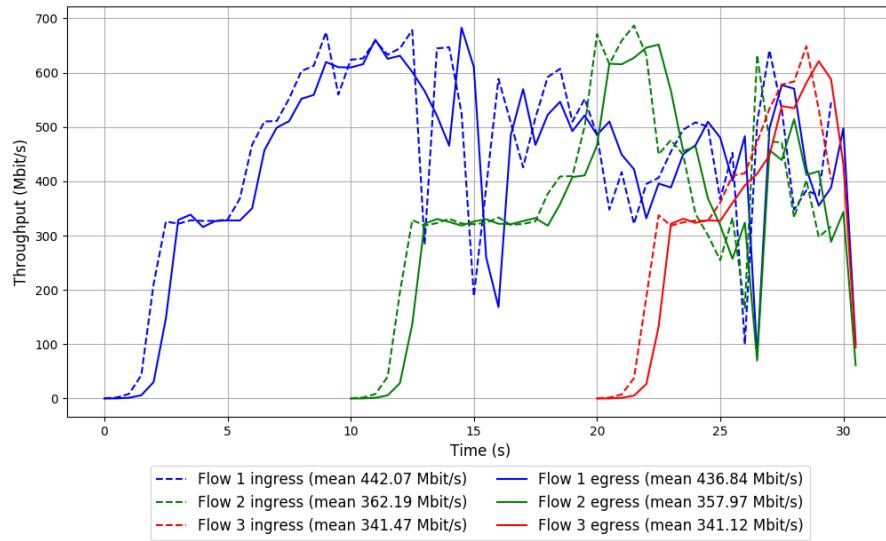


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-21 09:58:18
End at: 2019-01-21 09:58:48
Local clock offset: -0.022 ms
Remote clock offset: 0.448 ms

# Below is generated by plot.py at 2019-01-21 12:37:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 788.77 Mbit/s
95th percentile per-packet one-way delay: 223.495 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 436.84 Mbit/s
95th percentile per-packet one-way delay: 223.920 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 357.97 Mbit/s
95th percentile per-packet one-way delay: 236.121 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 341.12 Mbit/s
95th percentile per-packet one-way delay: 132.619 ms
Loss rate: 0.08%
```

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

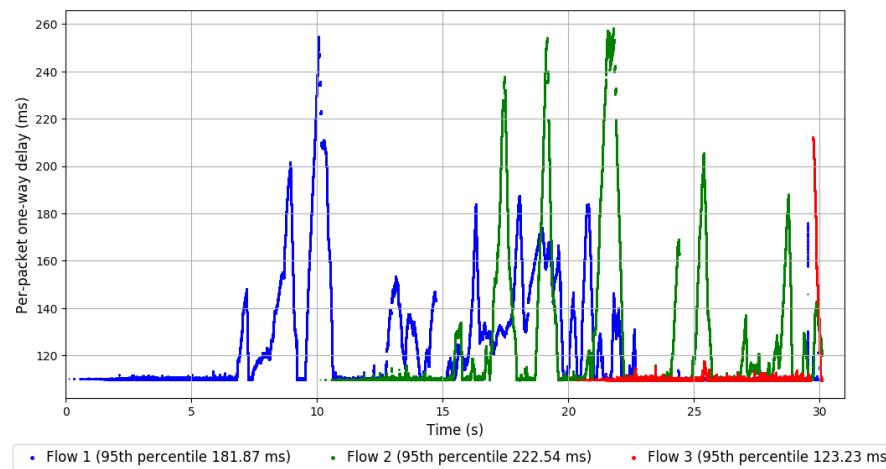
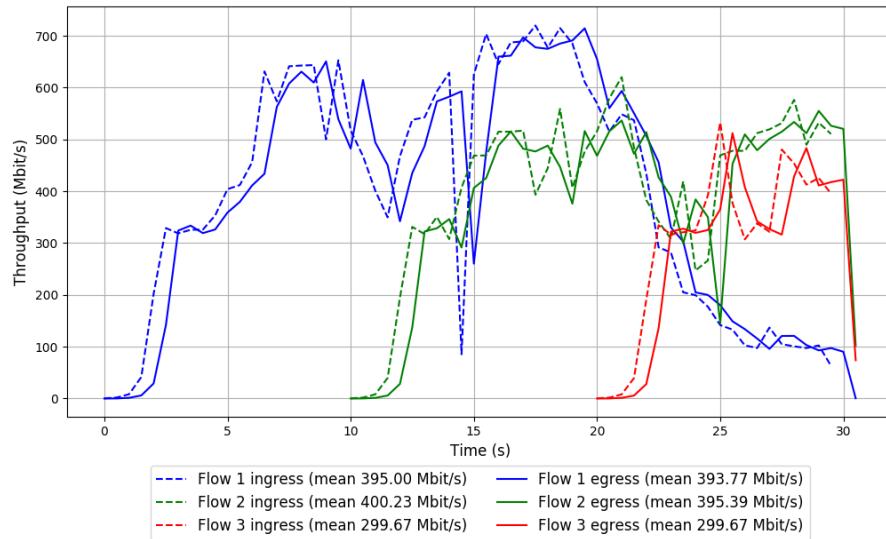


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-21 10:37:51
End at: 2019-01-21 10:38:21
Local clock offset: -0.749 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-01-21 12:37:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 756.34 Mbit/s
95th percentile per-packet one-way delay: 190.742 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 393.77 Mbit/s
95th percentile per-packet one-way delay: 181.870 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 395.39 Mbit/s
95th percentile per-packet one-way delay: 222.537 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 299.67 Mbit/s
95th percentile per-packet one-way delay: 123.229 ms
Loss rate: 0.00%
```

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

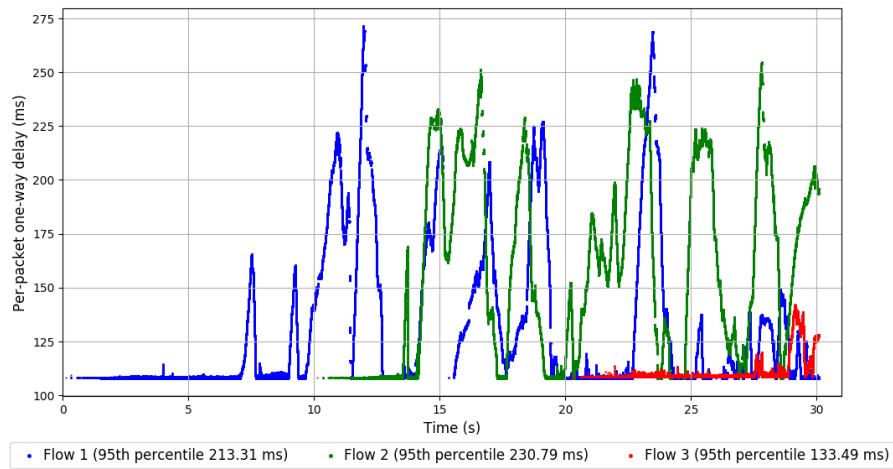
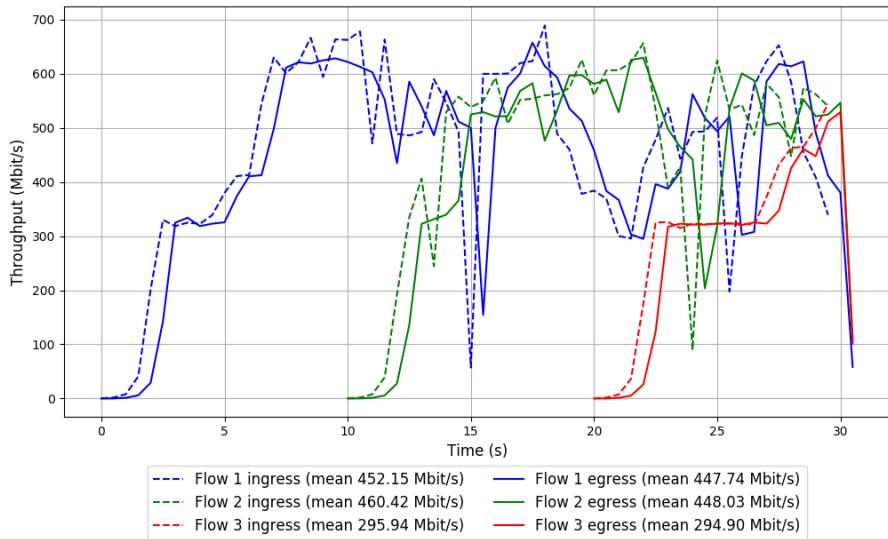


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-21 11:15:53
End at: 2019-01-21 11:16:23
Local clock offset: 0.39 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-01-21 12:38:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 844.01 Mbit/s
95th percentile per-packet one-way delay: 222.616 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 447.74 Mbit/s
95th percentile per-packet one-way delay: 213.307 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 448.03 Mbit/s
95th percentile per-packet one-way delay: 230.789 ms
Loss rate: 2.69%
-- Flow 3:
Average throughput: 294.90 Mbit/s
95th percentile per-packet one-way delay: 133.492 ms
Loss rate: 0.34%
```

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

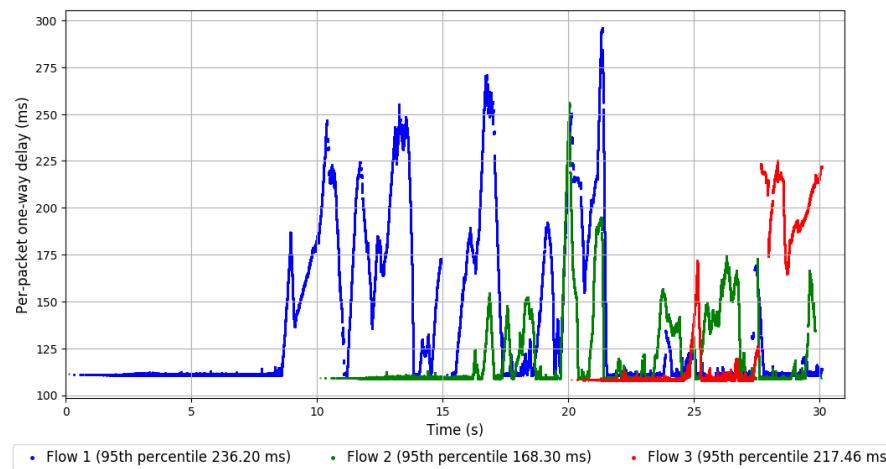
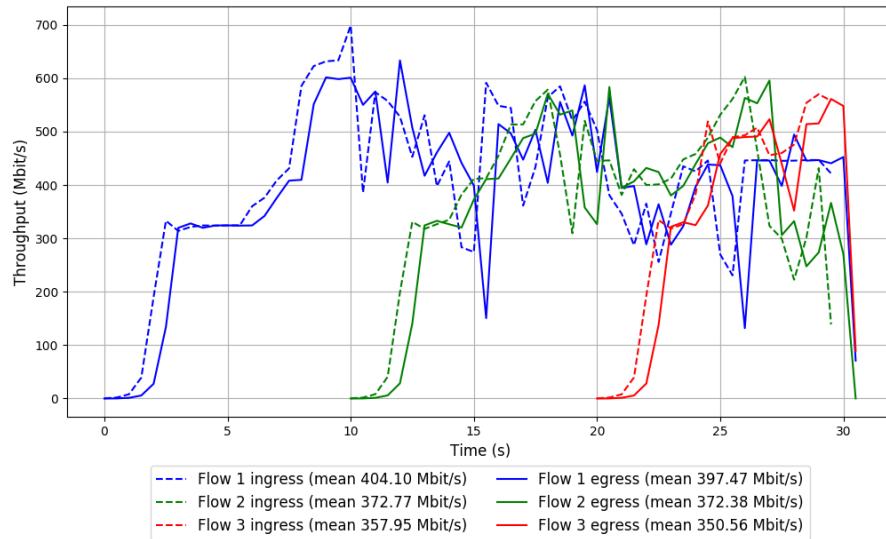


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-21 11:53:24
End at: 2019-01-21 11:53:54
Local clock offset: 0.425 ms
Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2019-01-21 12:38:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 761.51 Mbit/s
95th percentile per-packet one-way delay: 219.398 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 397.47 Mbit/s
95th percentile per-packet one-way delay: 236.198 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 372.38 Mbit/s
95th percentile per-packet one-way delay: 168.299 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 350.56 Mbit/s
95th percentile per-packet one-way delay: 217.456 ms
Loss rate: 2.05%
```

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

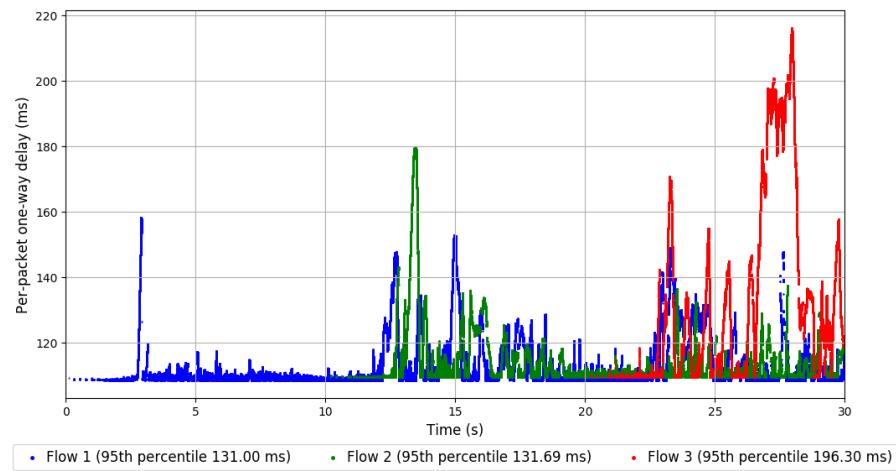
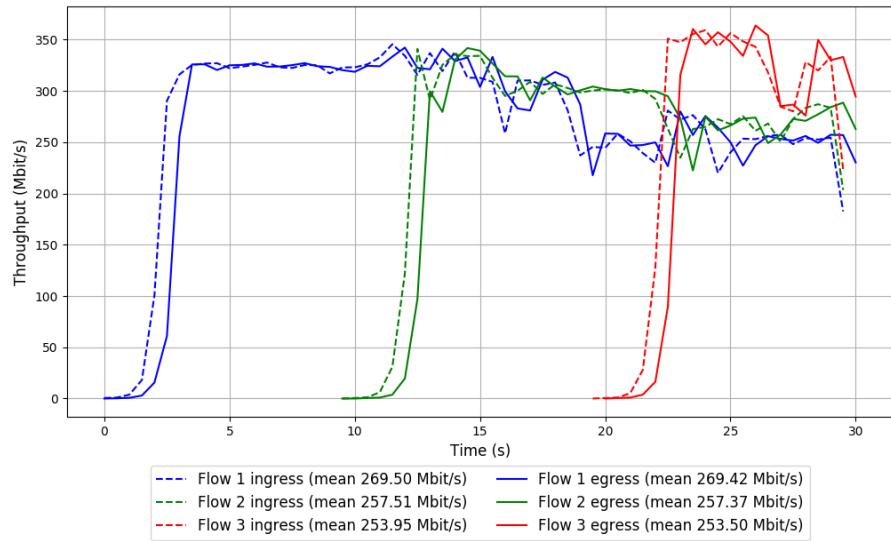


Run 1: Statistics of Copa

```
Start at: 2019-01-21 08:59:03
End at: 2019-01-21 08:59:33
Local clock offset: -0.456 ms
Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2019-01-21 12:41:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 526.09 Mbit/s
95th percentile per-packet one-way delay: 145.425 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 269.42 Mbit/s
95th percentile per-packet one-way delay: 130.997 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 257.37 Mbit/s
95th percentile per-packet one-way delay: 131.695 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 253.50 Mbit/s
95th percentile per-packet one-way delay: 196.299 ms
Loss rate: 0.18%
```

## Run 1: Report of Copa — Data Link

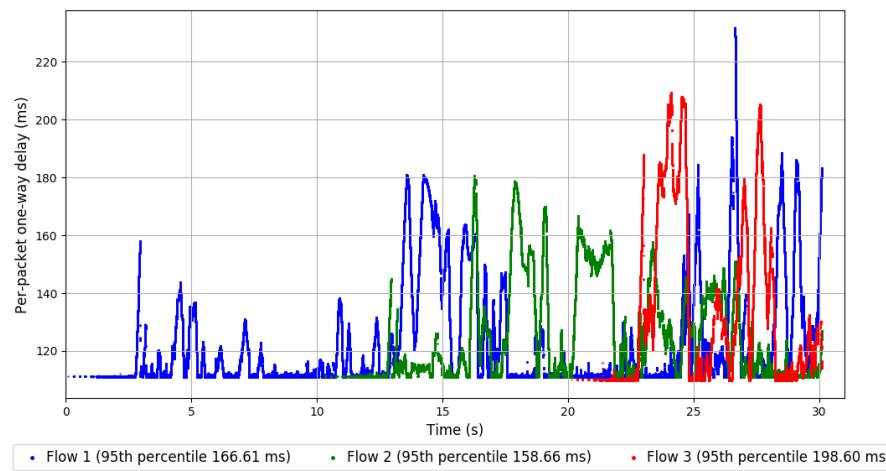
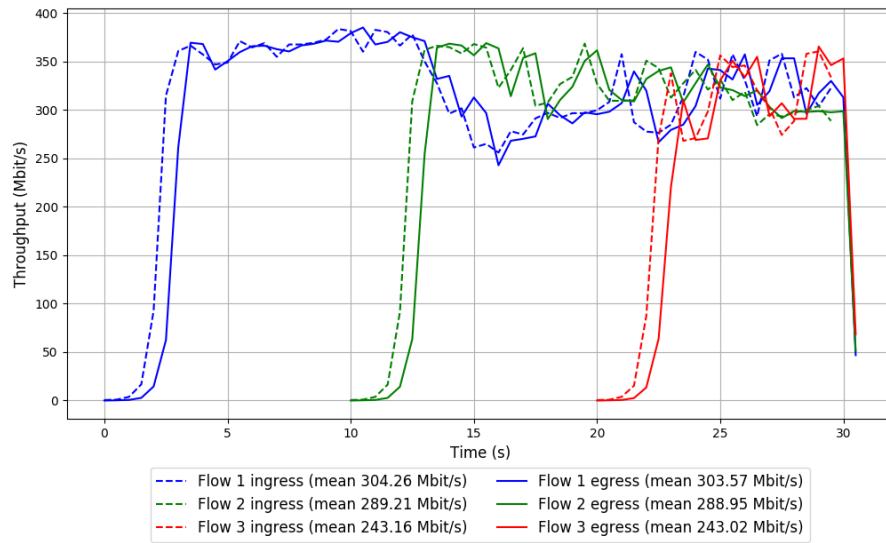


Run 2: Statistics of Copa

```
Start at: 2019-01-21 09:36:21
End at: 2019-01-21 09:36:51
Local clock offset: -1.42 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-01-21 12:43:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 576.70 Mbit/s
95th percentile per-packet one-way delay: 171.714 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 303.57 Mbit/s
95th percentile per-packet one-way delay: 166.609 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 288.95 Mbit/s
95th percentile per-packet one-way delay: 158.657 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 243.02 Mbit/s
95th percentile per-packet one-way delay: 198.602 ms
Loss rate: 0.04%
```

## Run 2: Report of Copa — Data Link

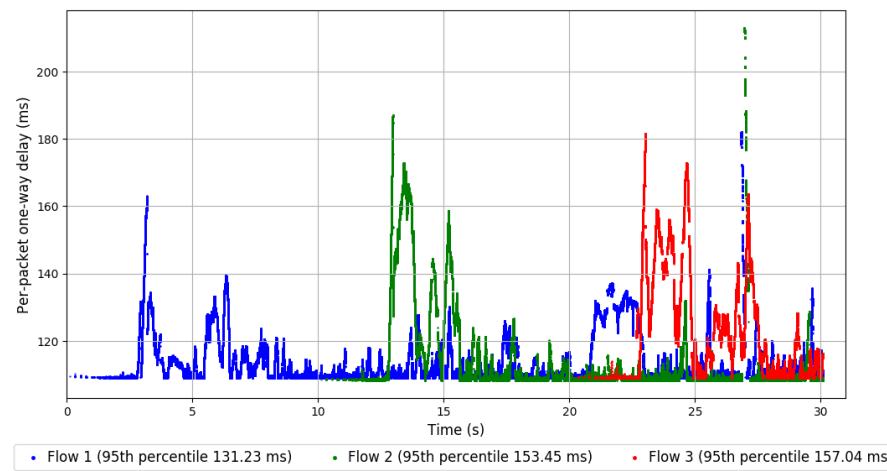
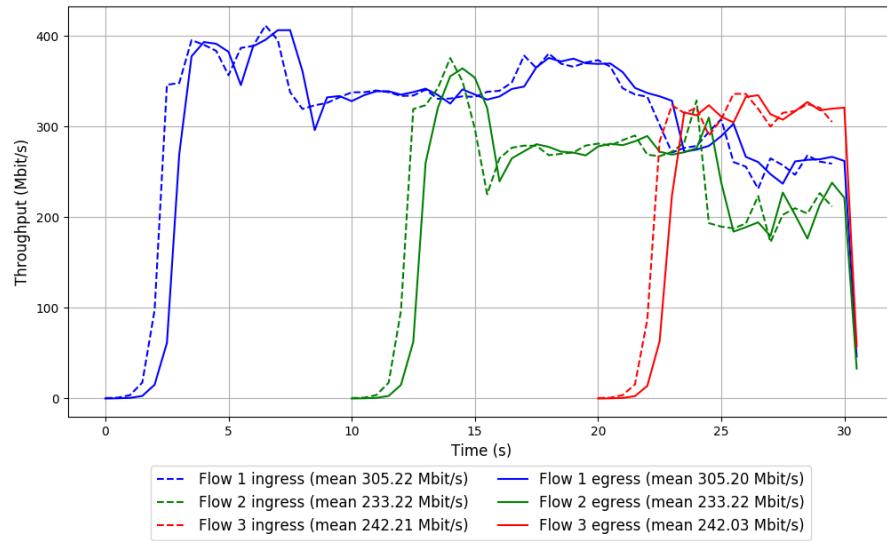


Run 3: Statistics of Copa

```
Start at: 2019-01-21 10:15:04
End at: 2019-01-21 10:15:34
Local clock offset: -0.06 ms
Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2019-01-21 12:43:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 540.96 Mbit/s
95th percentile per-packet one-way delay: 143.752 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 305.20 Mbit/s
95th percentile per-packet one-way delay: 131.230 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 233.22 Mbit/s
95th percentile per-packet one-way delay: 153.454 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 242.03 Mbit/s
95th percentile per-packet one-way delay: 157.044 ms
Loss rate: 0.07%
```

### Run 3: Report of Copa — Data Link

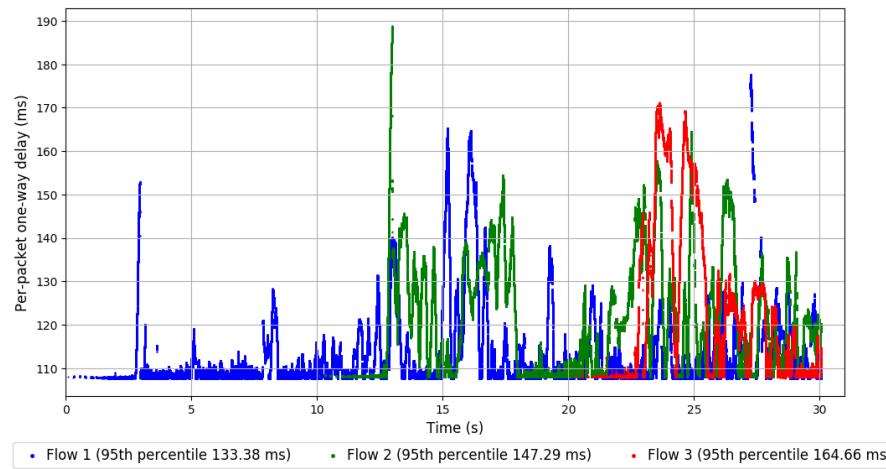
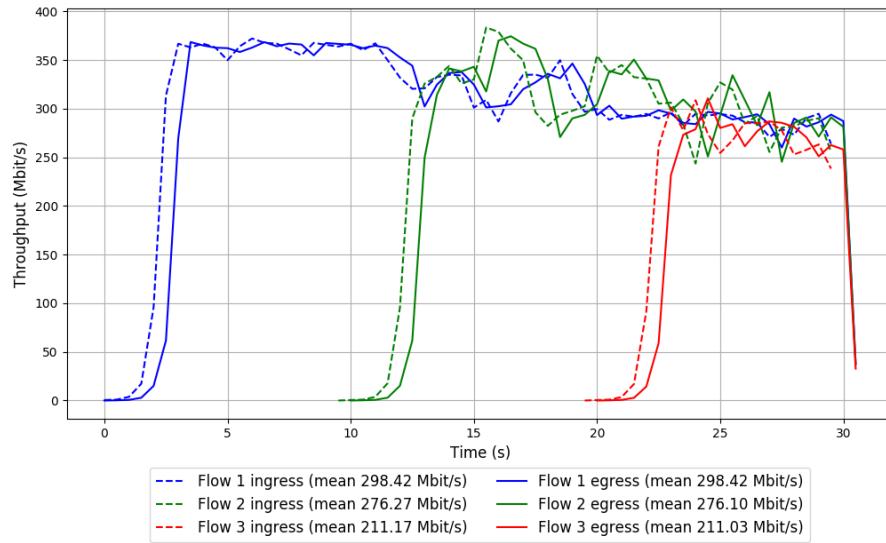


Run 4: Statistics of Copa

```
Start at: 2019-01-21 10:54:07
End at: 2019-01-21 10:54:37
Local clock offset: 1.281 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-21 13:01:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 552.63 Mbit/s
95th percentile per-packet one-way delay: 148.254 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 298.42 Mbit/s
95th percentile per-packet one-way delay: 133.379 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 276.10 Mbit/s
95th percentile per-packet one-way delay: 147.291 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 211.03 Mbit/s
95th percentile per-packet one-way delay: 164.665 ms
Loss rate: 0.06%
```

Run 4: Report of Copa — Data Link

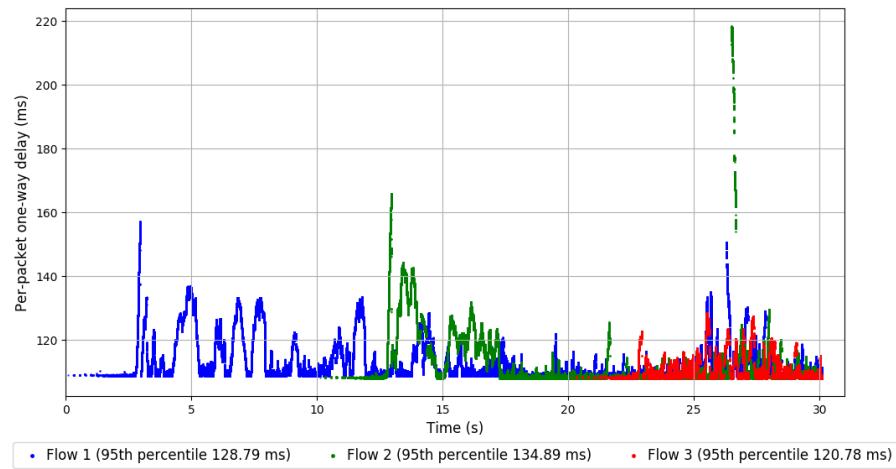
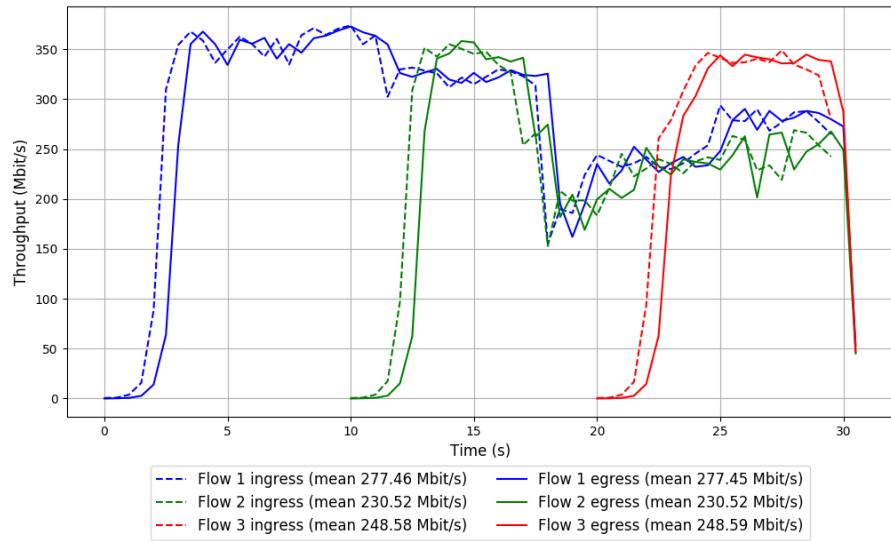


Run 5: Statistics of Copa

```
Start at: 2019-01-21 11:31:47
End at: 2019-01-21 11:32:17
Local clock offset: 0.184 ms
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2019-01-21 13:01:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 513.65 Mbit/s
95th percentile per-packet one-way delay: 128.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 277.45 Mbit/s
95th percentile per-packet one-way delay: 128.795 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 230.52 Mbit/s
95th percentile per-packet one-way delay: 134.892 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 248.59 Mbit/s
95th percentile per-packet one-way delay: 120.783 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

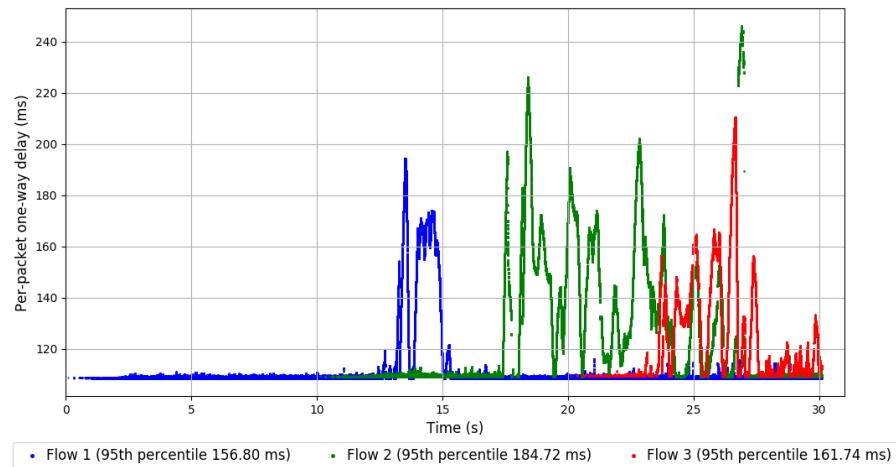
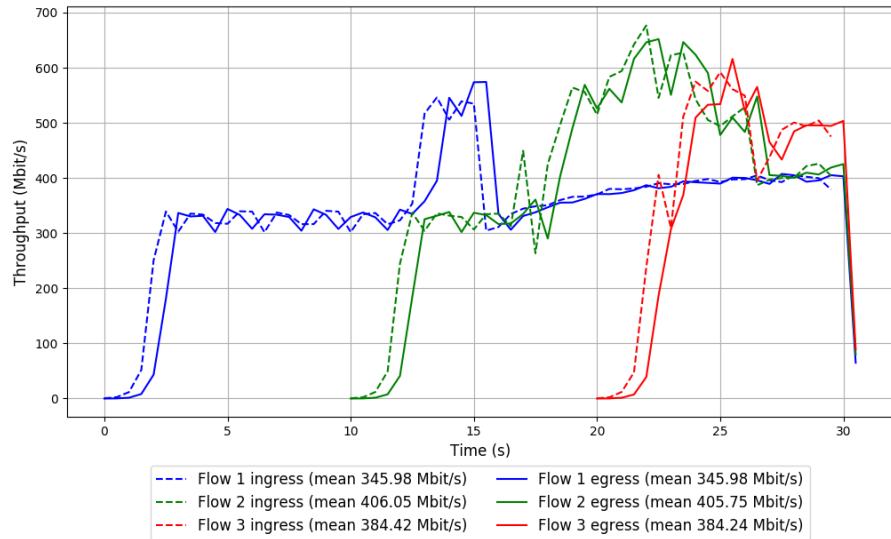


Run 1: Statistics of TCP Cubic

```
Start at: 2019-01-21 09:10:07
End at: 2019-01-21 09:10:37
Local clock offset: -0.028 ms
Remote clock offset: 0.161 ms

# Below is generated by plot.py at 2019-01-21 13:01:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 743.78 Mbit/s
95th percentile per-packet one-way delay: 168.441 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 345.98 Mbit/s
95th percentile per-packet one-way delay: 156.797 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 405.75 Mbit/s
95th percentile per-packet one-way delay: 184.717 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 384.24 Mbit/s
95th percentile per-packet one-way delay: 161.736 ms
Loss rate: 0.05%
```

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

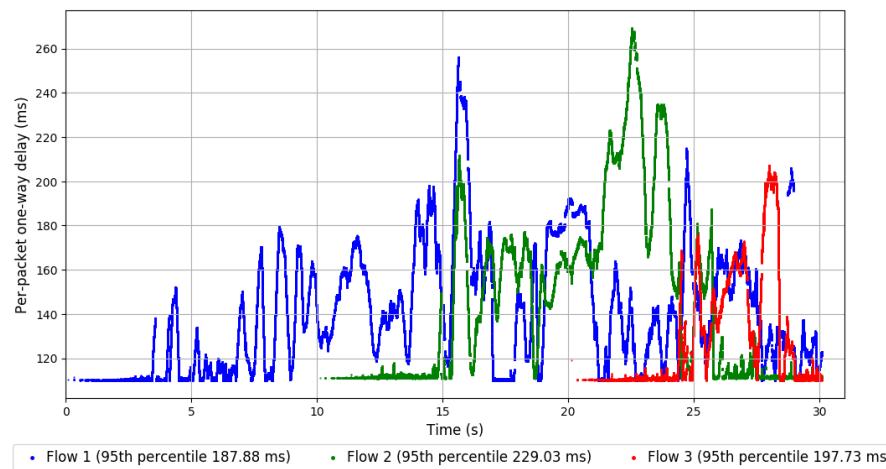
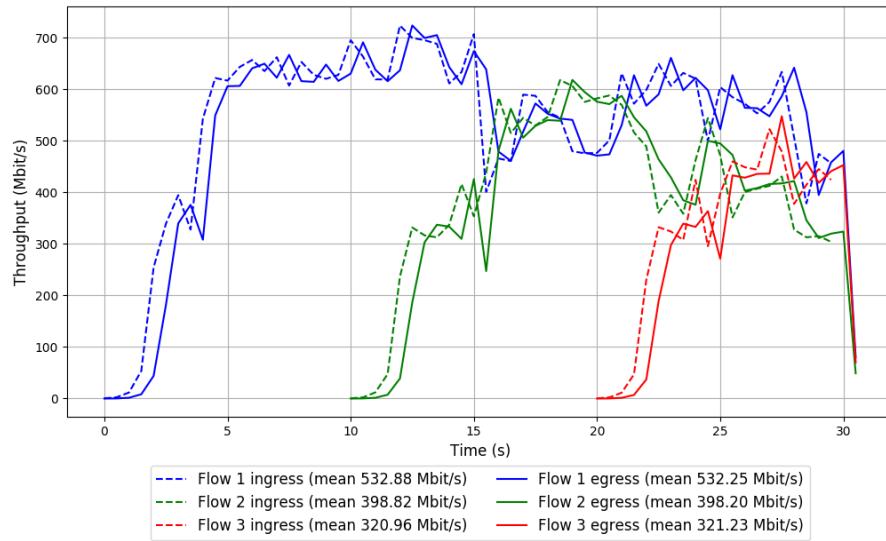


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-21 09:47:49
End at: 2019-01-21 09:48:19
Local clock offset: -1.191 ms
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2019-01-21 13:01:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 904.03 Mbit/s
95th percentile per-packet one-way delay: 201.798 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 532.25 Mbit/s
95th percentile per-packet one-way delay: 187.880 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 398.20 Mbit/s
95th percentile per-packet one-way delay: 229.025 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 321.23 Mbit/s
95th percentile per-packet one-way delay: 197.726 ms
Loss rate: 0.00%
```

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

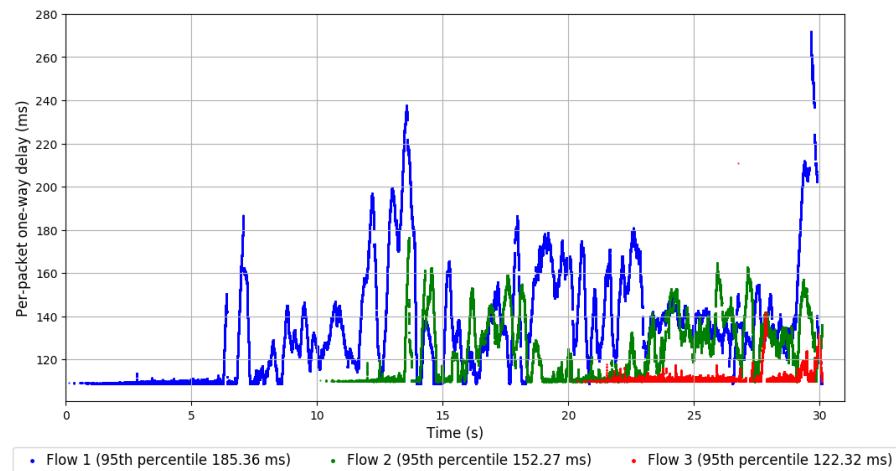
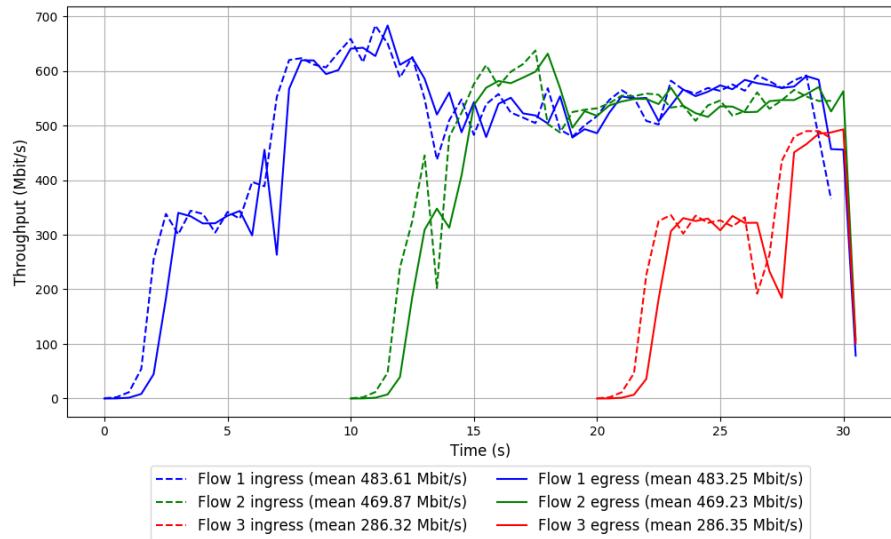


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-21 10:27:07
End at: 2019-01-21 10:27:37
Local clock offset: -0.708 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-01-21 13:01:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 890.90 Mbit/s
95th percentile per-packet one-way delay: 171.911 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 483.25 Mbit/s
95th percentile per-packet one-way delay: 185.361 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 469.23 Mbit/s
95th percentile per-packet one-way delay: 152.267 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 286.35 Mbit/s
95th percentile per-packet one-way delay: 122.324 ms
Loss rate: 0.00%
```

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

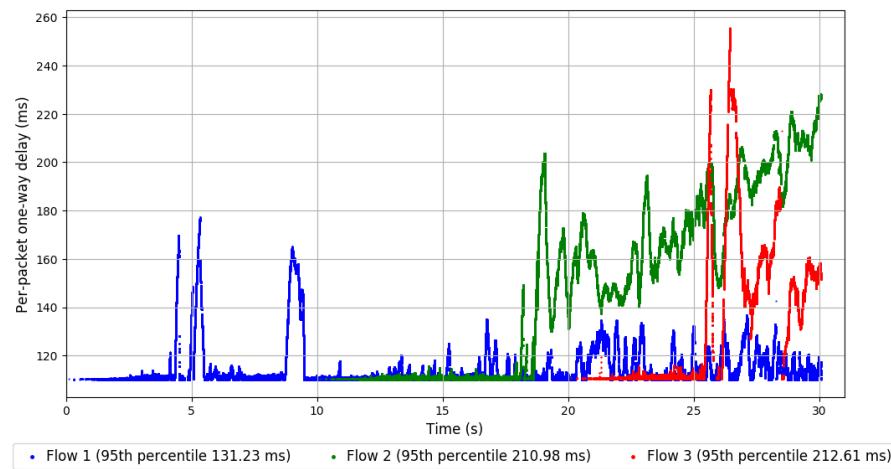
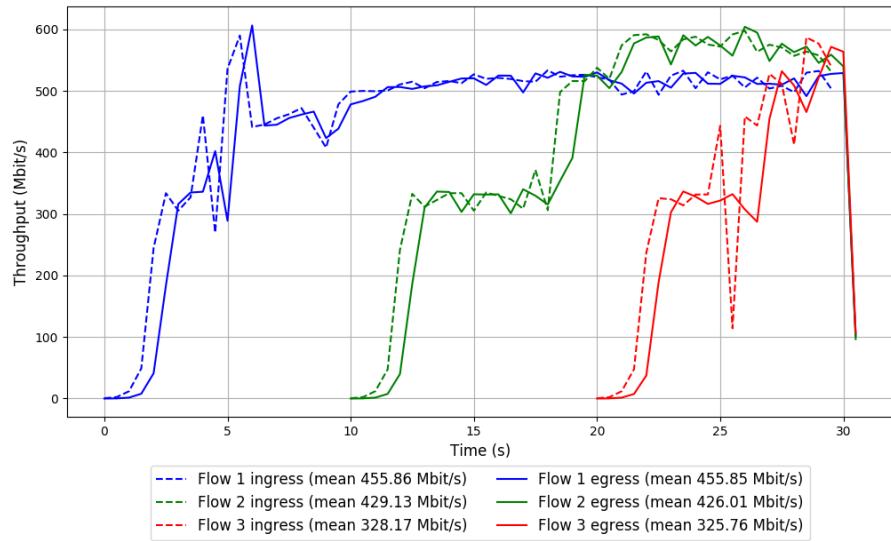


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-21 11:05:29
End at: 2019-01-21 11:05:59
Local clock offset: -0.771 ms
Remote clock offset: 0.248 ms

# Below is generated by plot.py at 2019-01-21 13:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 847.91 Mbit/s
95th percentile per-packet one-way delay: 200.580 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 455.85 Mbit/s
95th percentile per-packet one-way delay: 131.226 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 426.01 Mbit/s
95th percentile per-packet one-way delay: 210.977 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 325.76 Mbit/s
95th percentile per-packet one-way delay: 212.608 ms
Loss rate: 0.73%
```

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

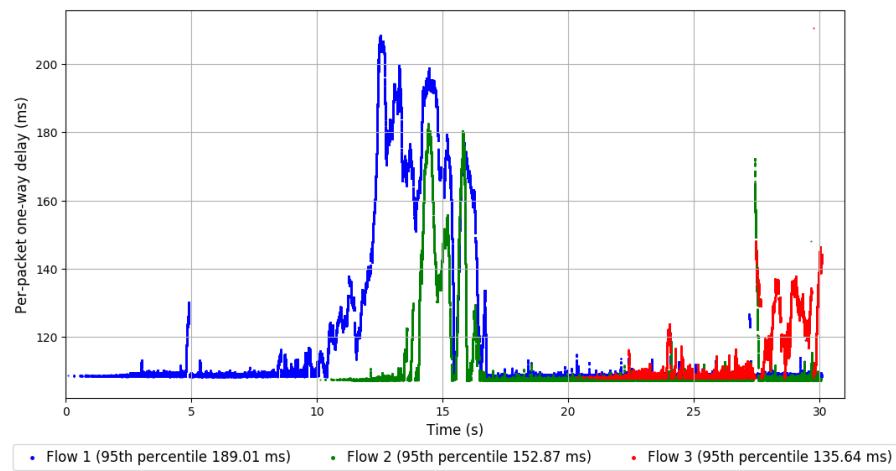
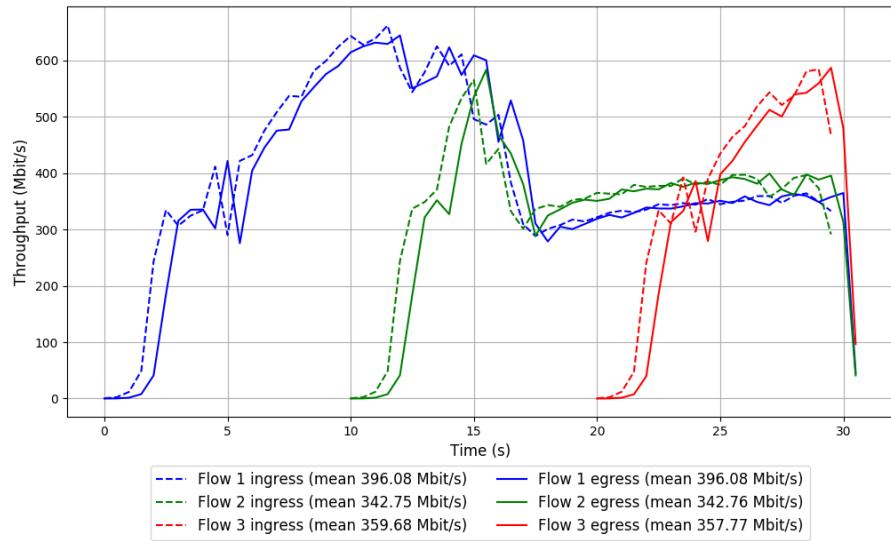


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-21 11:42:58
End at: 2019-01-21 11:43:28
Local clock offset: 0.415 ms
Remote clock offset: -0.42 ms

# Below is generated by plot.py at 2019-01-21 13:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 742.90 Mbit/s
95th percentile per-packet one-way delay: 174.467 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 396.08 Mbit/s
95th percentile per-packet one-way delay: 189.010 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 342.76 Mbit/s
95th percentile per-packet one-way delay: 152.868 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 357.77 Mbit/s
95th percentile per-packet one-way delay: 135.641 ms
Loss rate: 0.52%
```

Run 5: Report of TCP Cubic — Data Link

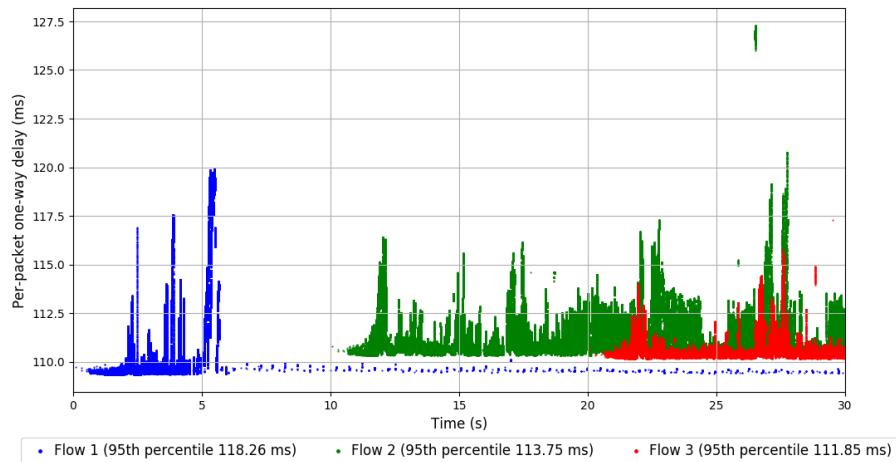
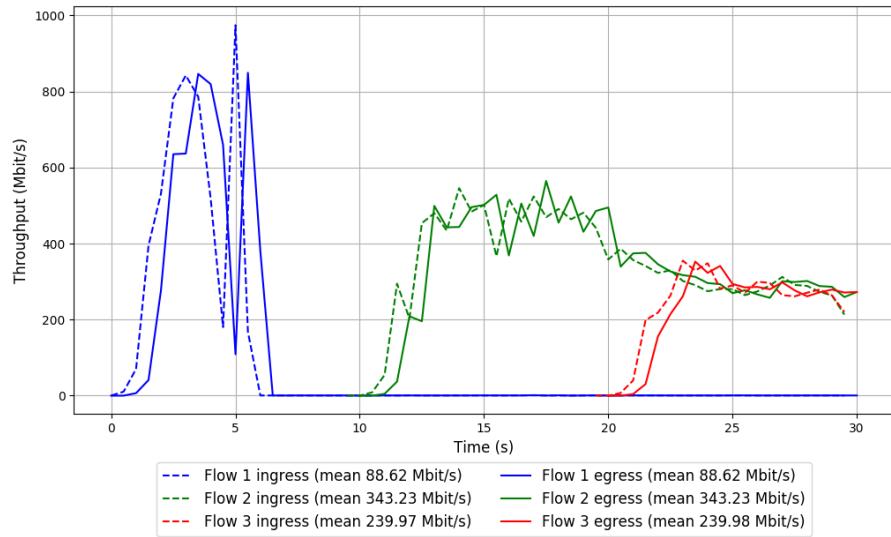


```
Run 1: Statistics of FillP

Start at: 2019-01-21 09:01:16
End at: 2019-01-21 09:01:46
Local clock offset: -0.875 ms
Remote clock offset: 0.338 ms

# Below is generated by plot.py at 2019-01-21 13:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.59 Mbit/s
95th percentile per-packet one-way delay: 114.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.62 Mbit/s
95th percentile per-packet one-way delay: 118.257 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 343.23 Mbit/s
95th percentile per-packet one-way delay: 113.752 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 239.98 Mbit/s
95th percentile per-packet one-way delay: 111.851 ms
Loss rate: 0.00%
```

## Run 1: Report of FillP — Data Link

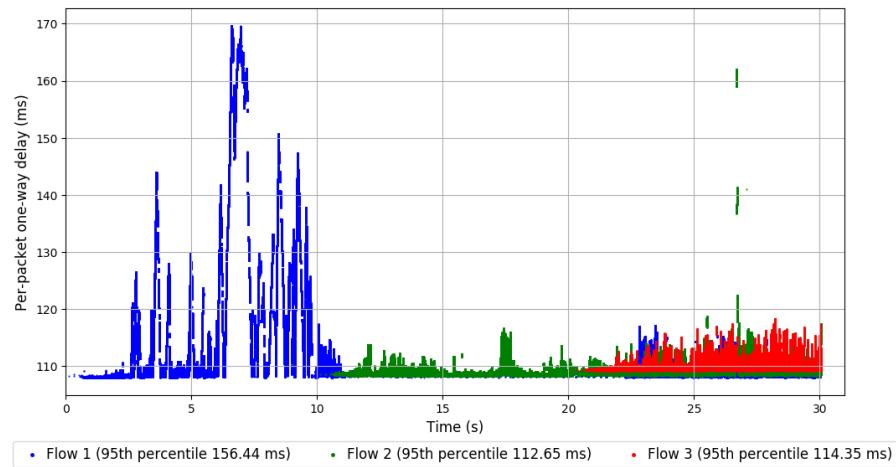
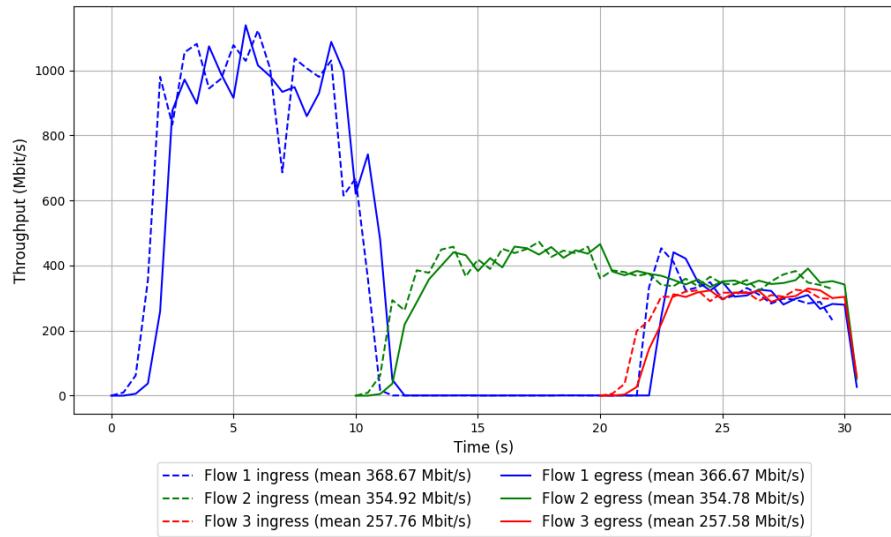


Run 2: Statistics of FillP

```
Start at: 2019-01-21 09:38:39
End at: 2019-01-21 09:39:09
Local clock offset: 0.688 ms
Remote clock offset: 0.483 ms

# Below is generated by plot.py at 2019-01-21 13:13:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 687.80 Mbit/s
95th percentile per-packet one-way delay: 139.134 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 366.67 Mbit/s
95th percentile per-packet one-way delay: 156.441 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 354.78 Mbit/s
95th percentile per-packet one-way delay: 112.648 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 257.58 Mbit/s
95th percentile per-packet one-way delay: 114.346 ms
Loss rate: 0.06%
```

## Run 2: Report of FillP — Data Link

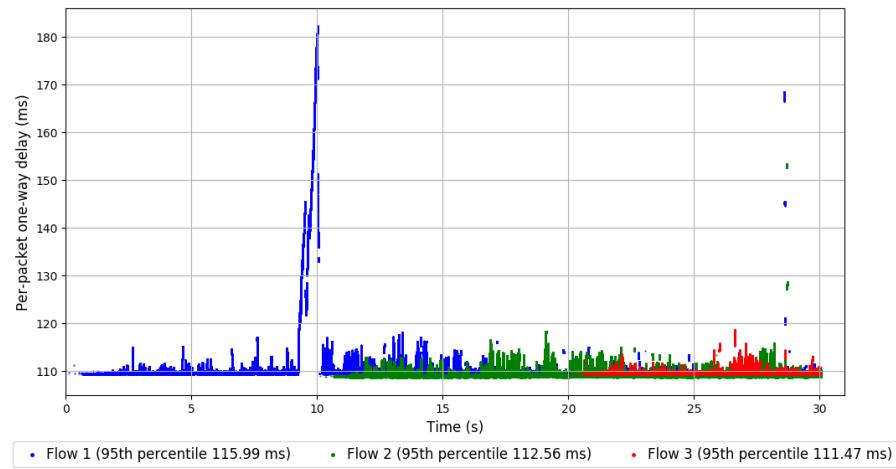
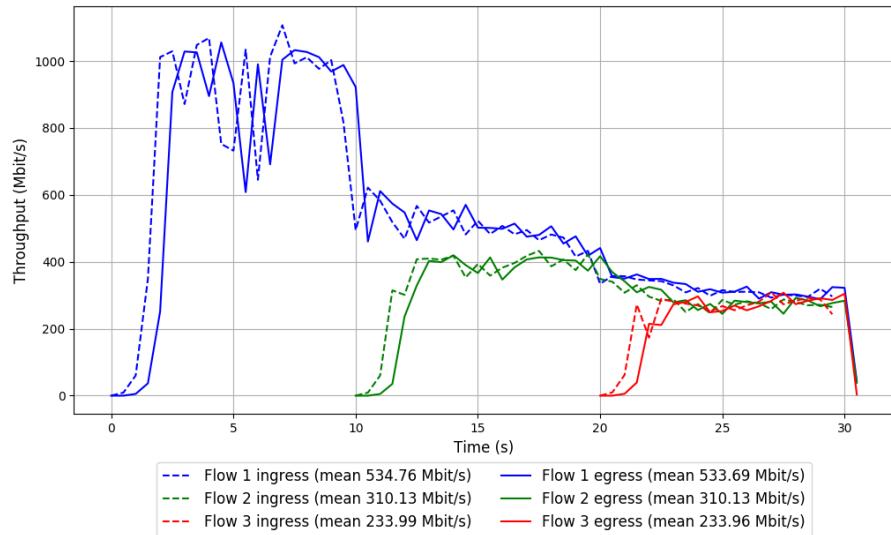


Run 3: Statistics of FillP

```
Start at: 2019-01-21 10:17:19
End at: 2019-01-21 10:17:49
Local clock offset: -0.413 ms
Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2019-01-21 13:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 817.46 Mbit/s
95th percentile per-packet one-way delay: 113.434 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 533.69 Mbit/s
95th percentile per-packet one-way delay: 115.990 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 310.13 Mbit/s
95th percentile per-packet one-way delay: 112.559 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 233.96 Mbit/s
95th percentile per-packet one-way delay: 111.465 ms
Loss rate: 0.00%
```

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

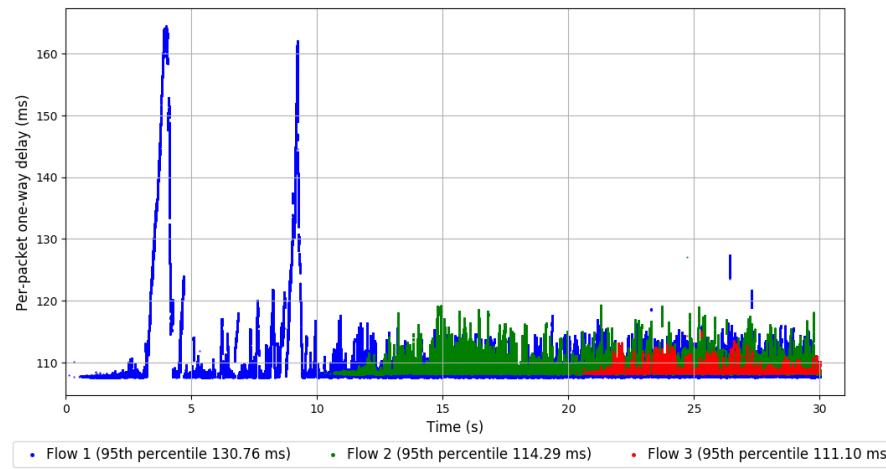
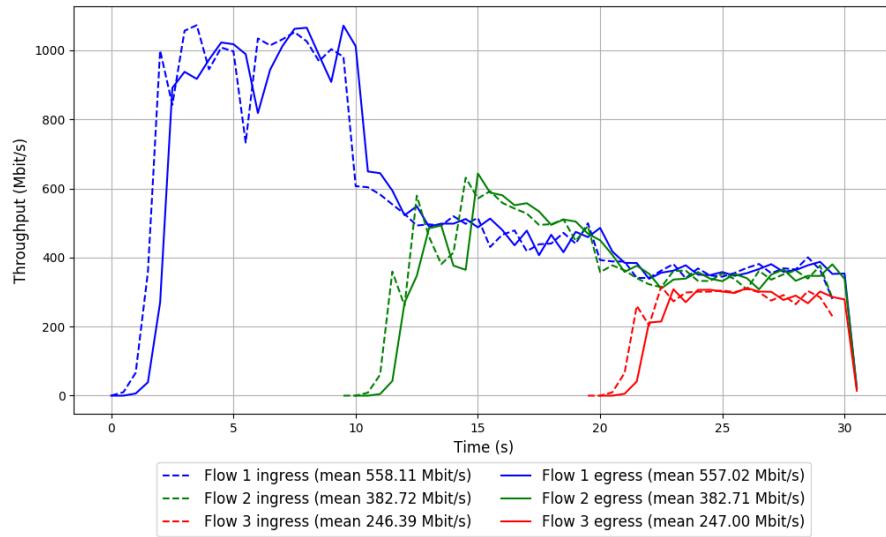


Run 4: Statistics of FillP

```
Start at: 2019-01-21 10:56:24
End at: 2019-01-21 10:56:54
Local clock offset: 0.632 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-01-21 13:26:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 893.63 Mbit/s
95th percentile per-packet one-way delay: 120.739 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 557.02 Mbit/s
95th percentile per-packet one-way delay: 130.760 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 382.71 Mbit/s
95th percentile per-packet one-way delay: 114.294 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 247.00 Mbit/s
95th percentile per-packet one-way delay: 111.099 ms
Loss rate: 0.00%
```

## Run 4: Report of FillP — Data Link

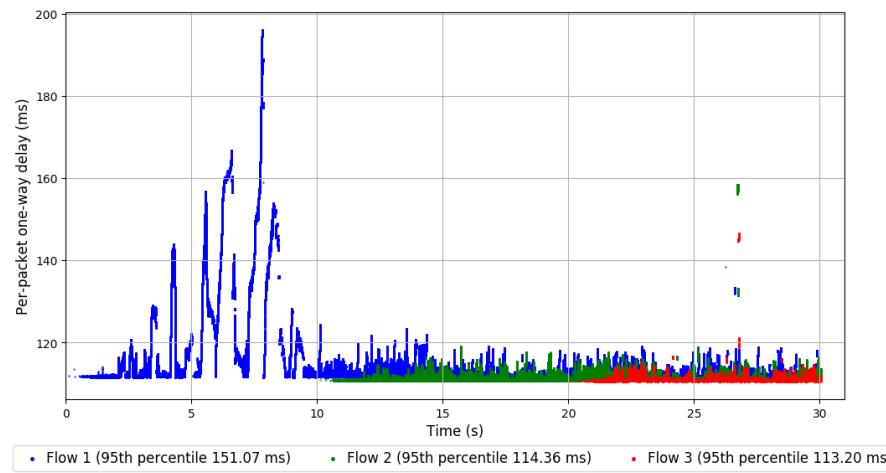
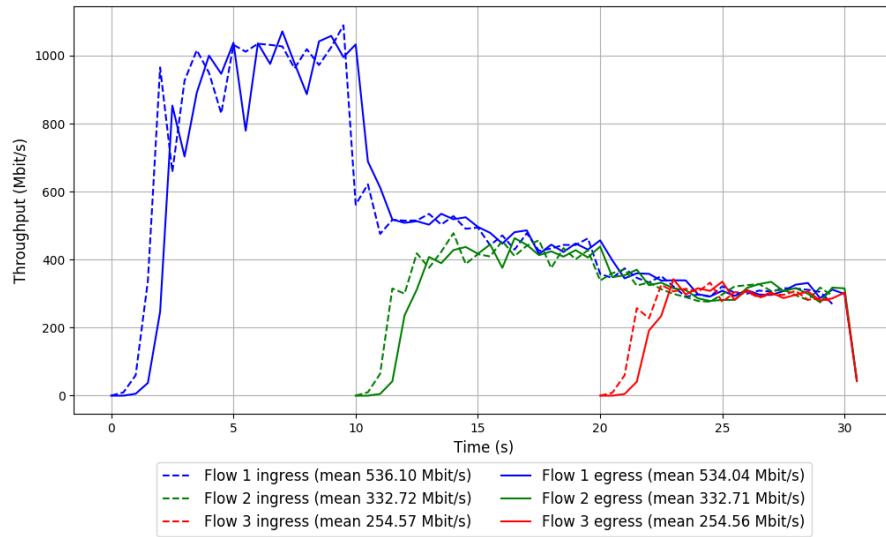


Run 5: Statistics of FillP

```
Start at: 2019-01-21 11:33:59
End at: 2019-01-21 11:34:29
Local clock offset: -0.966 ms
Remote clock offset: 0.282 ms

# Below is generated by plot.py at 2019-01-21 13:26:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 839.66 Mbit/s
95th percentile per-packet one-way delay: 143.201 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 534.04 Mbit/s
95th percentile per-packet one-way delay: 151.066 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 332.71 Mbit/s
95th percentile per-packet one-way delay: 114.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 254.56 Mbit/s
95th percentile per-packet one-way delay: 113.201 ms
Loss rate: 0.00%
```

## Run 5: Report of FillP — Data Link

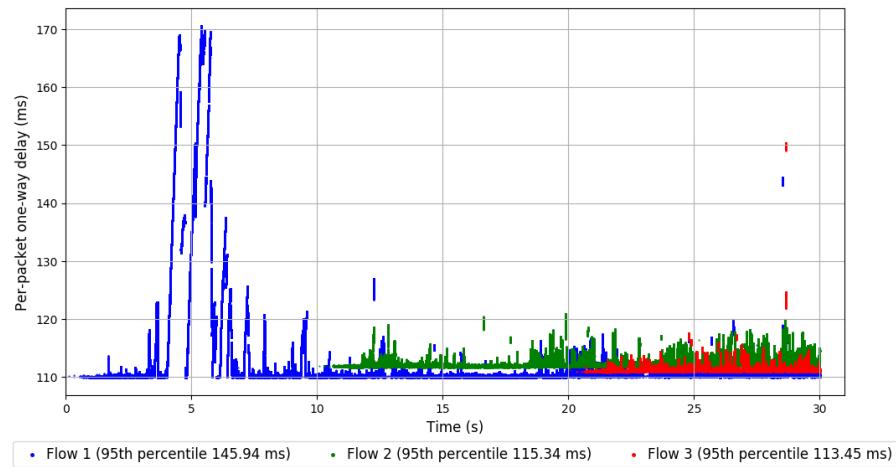
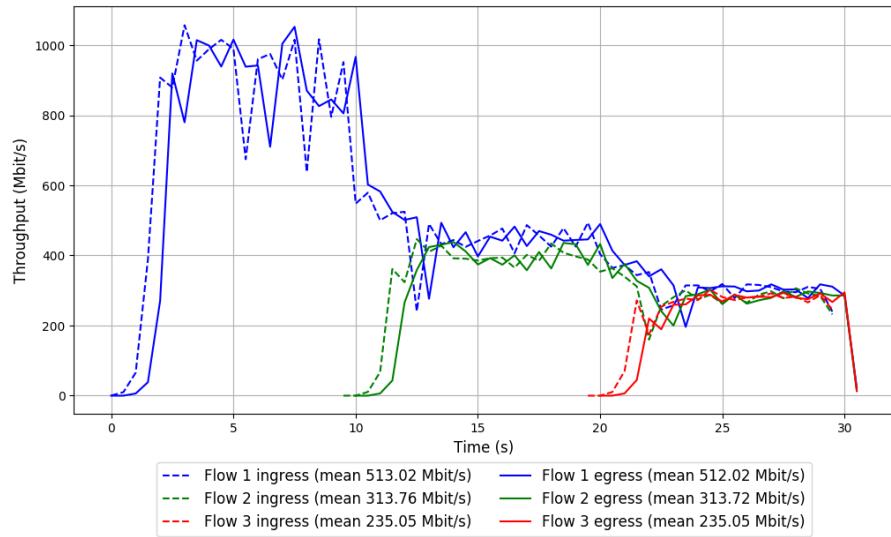


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-21 09:24:37
End at: 2019-01-21 09:25:07
Local clock offset: -1.107 ms
Remote clock offset: 0.403 ms

# Below is generated by plot.py at 2019-01-21 13:26:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 798.82 Mbit/s
95th percentile per-packet one-way delay: 135.745 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 512.02 Mbit/s
95th percentile per-packet one-way delay: 145.935 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 313.72 Mbit/s
95th percentile per-packet one-way delay: 115.344 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 235.05 Mbit/s
95th percentile per-packet one-way delay: 113.452 ms
Loss rate: 0.00%
```

Run 1: Report of FillP-Sheep — Data Link

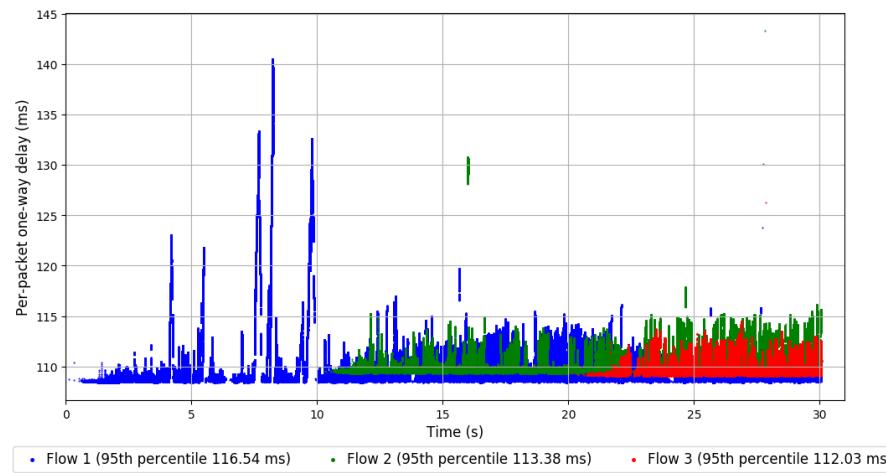
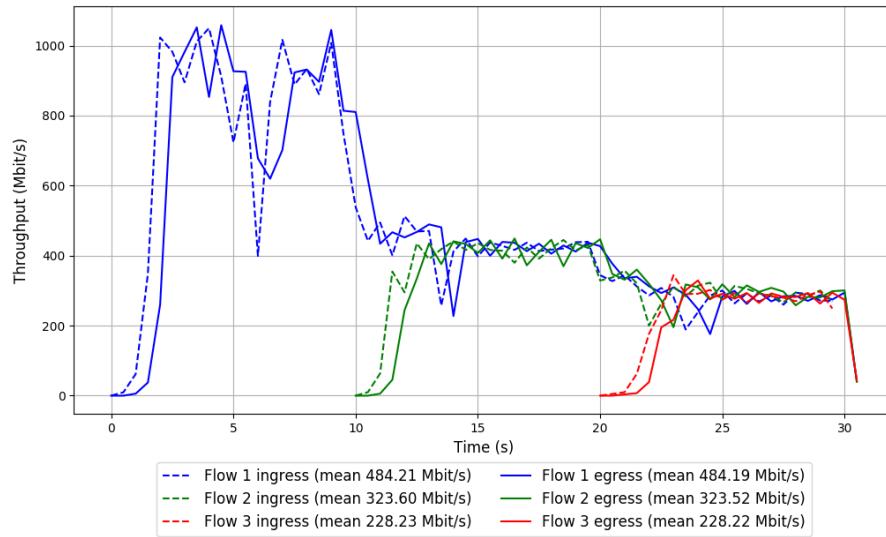


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-21 10:02:52
End at: 2019-01-21 10:03:22
Local clock offset: -0.048 ms
Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2019-01-21 13:26:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 774.93 Mbit/s
95th percentile per-packet one-way delay: 114.056 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 484.19 Mbit/s
95th percentile per-packet one-way delay: 116.538 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 323.52 Mbit/s
95th percentile per-packet one-way delay: 113.377 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 228.22 Mbit/s
95th percentile per-packet one-way delay: 112.029 ms
Loss rate: 0.00%
```

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

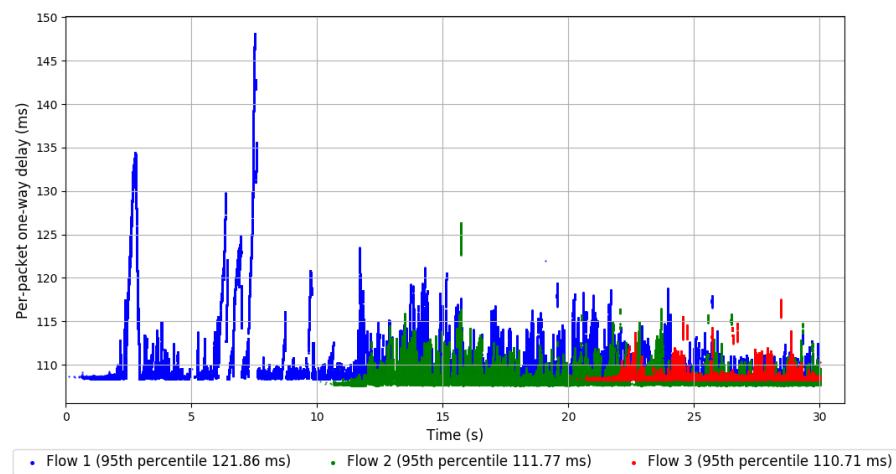
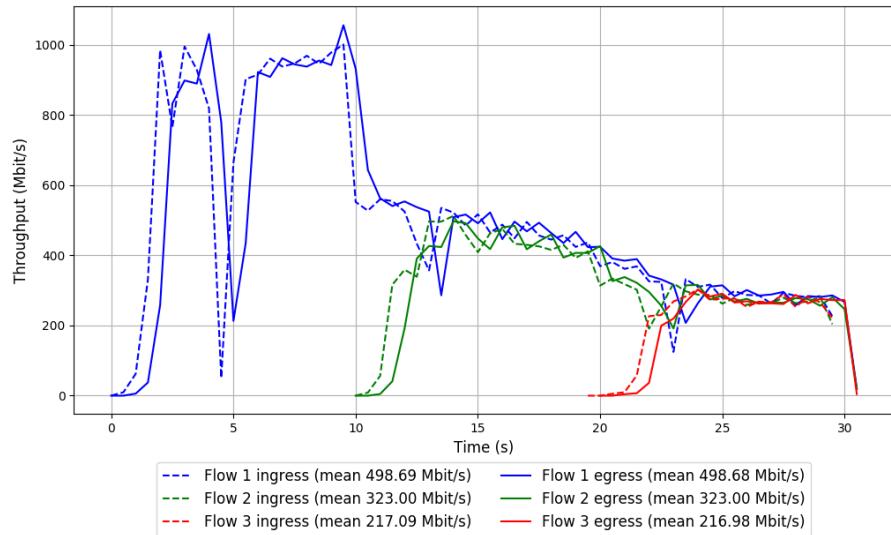


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-21 10:42:01
End at: 2019-01-21 10:42:31
Local clock offset: 0.56 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-21 13:26:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 785.39 Mbit/s
95th percentile per-packet one-way delay: 118.660 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 498.68 Mbit/s
95th percentile per-packet one-way delay: 121.858 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 323.00 Mbit/s
95th percentile per-packet one-way delay: 111.765 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 216.98 Mbit/s
95th percentile per-packet one-way delay: 110.706 ms
Loss rate: 0.04%
```

Run 3: Report of FillP-Sheep — Data Link

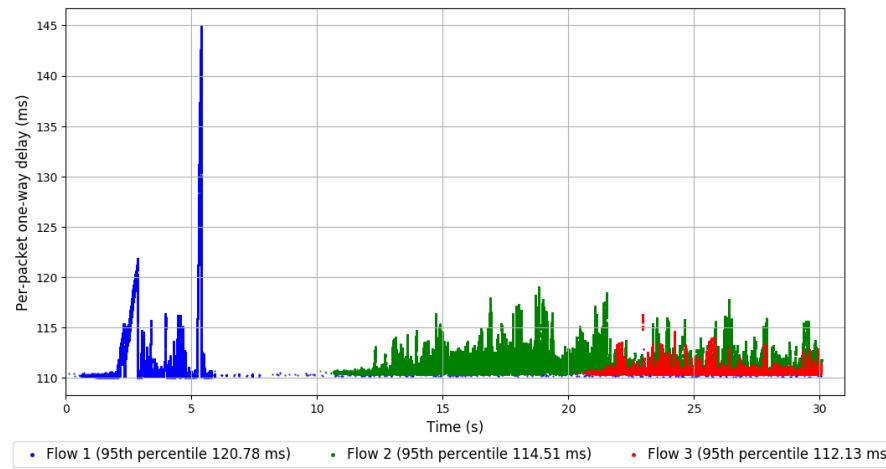
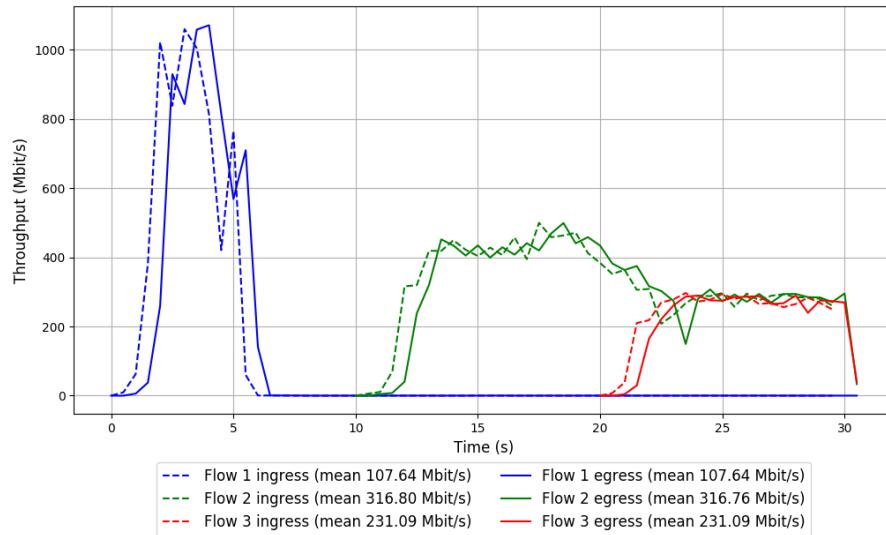


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-21 11:20:12
End at: 2019-01-21 11:20:42
Local clock offset: -0.972 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-01-21 13:26:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 394.98 Mbit/s
95th percentile per-packet one-way delay: 116.039 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 107.64 Mbit/s
95th percentile per-packet one-way delay: 120.785 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 316.76 Mbit/s
95th percentile per-packet one-way delay: 114.509 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 231.09 Mbit/s
95th percentile per-packet one-way delay: 112.134 ms
Loss rate: 0.00%
```

Run 4: Report of FillP-Sheep — Data Link

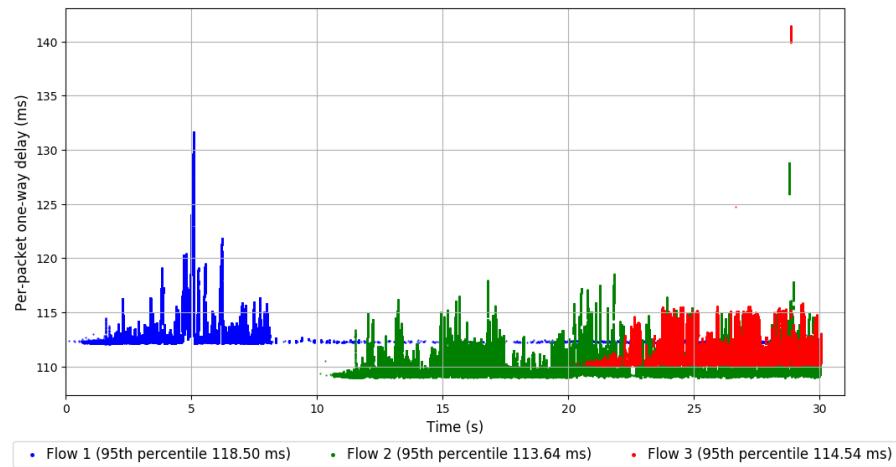
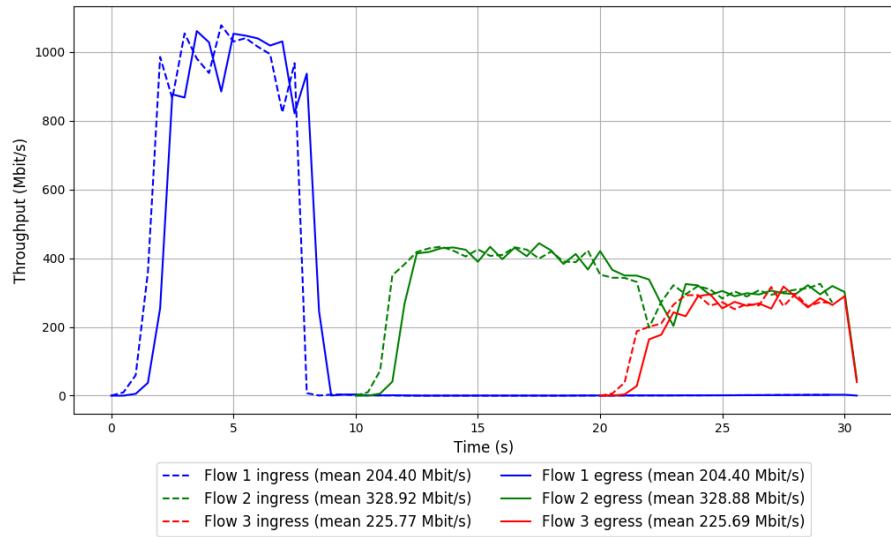


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-21 11:58:07
End at: 2019-01-21 11:58:37
Local clock offset: -0.876 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-01-21 13:29:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 498.01 Mbit/s
95th percentile per-packet one-way delay: 115.784 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 204.40 Mbit/s
95th percentile per-packet one-way delay: 118.502 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 328.88 Mbit/s
95th percentile per-packet one-way delay: 113.637 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 225.69 Mbit/s
95th percentile per-packet one-way delay: 114.543 ms
Loss rate: 0.03%
```

Run 5: Report of FillP-Sheep — Data Link

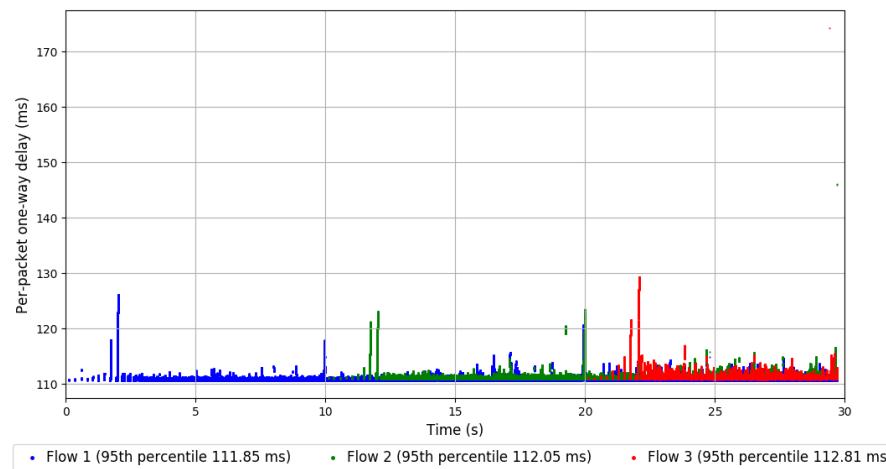
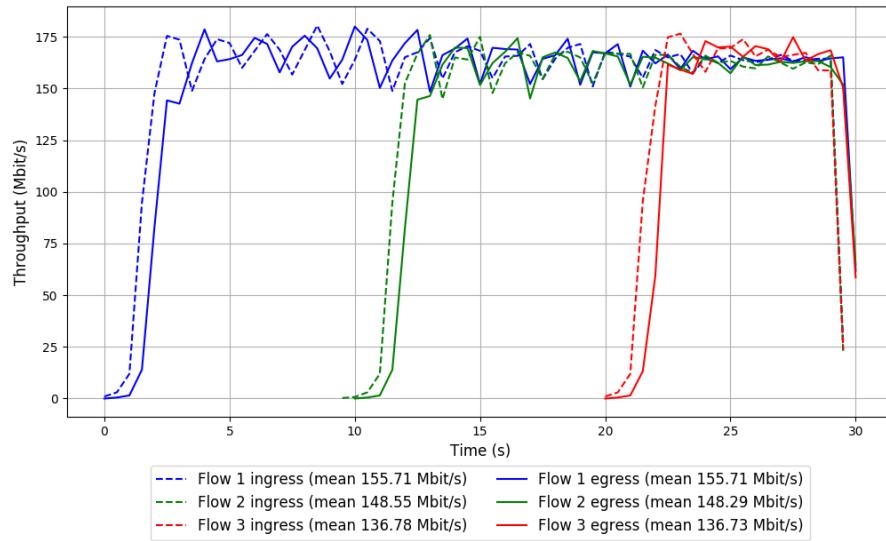


Run 1: Statistics of Indigo

```
Start at: 2019-01-21 09:15:23
End at: 2019-01-21 09:15:53
Local clock offset: -1.39 ms
Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2019-01-21 13:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.05 Mbit/s
95th percentile per-packet one-way delay: 112.123 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 155.71 Mbit/s
95th percentile per-packet one-way delay: 111.848 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 148.29 Mbit/s
95th percentile per-packet one-way delay: 112.048 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 136.73 Mbit/s
95th percentile per-packet one-way delay: 112.811 ms
Loss rate: 0.03%
```

## Run 1: Report of Indigo — Data Link

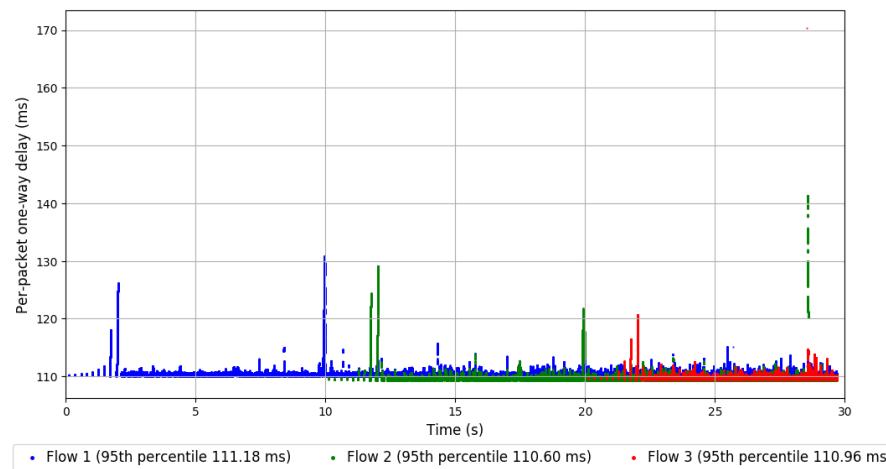
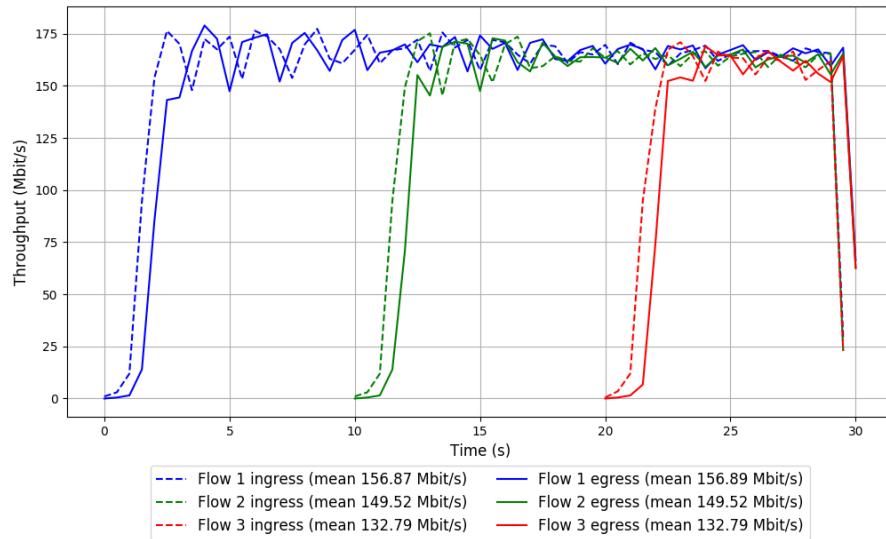


Run 2: Statistics of Indigo

```
Start at: 2019-01-21 09:53:12
End at: 2019-01-21 09:53:42
Local clock offset: -0.857 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2019-01-21 13:33:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.77 Mbit/s
95th percentile per-packet one-way delay: 111.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.89 Mbit/s
95th percentile per-packet one-way delay: 111.181 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 149.52 Mbit/s
95th percentile per-packet one-way delay: 110.599 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 132.79 Mbit/s
95th percentile per-packet one-way delay: 110.961 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

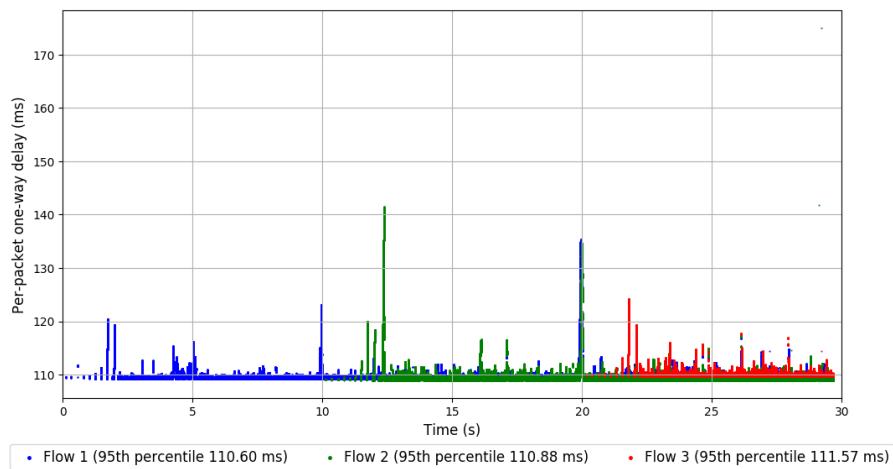
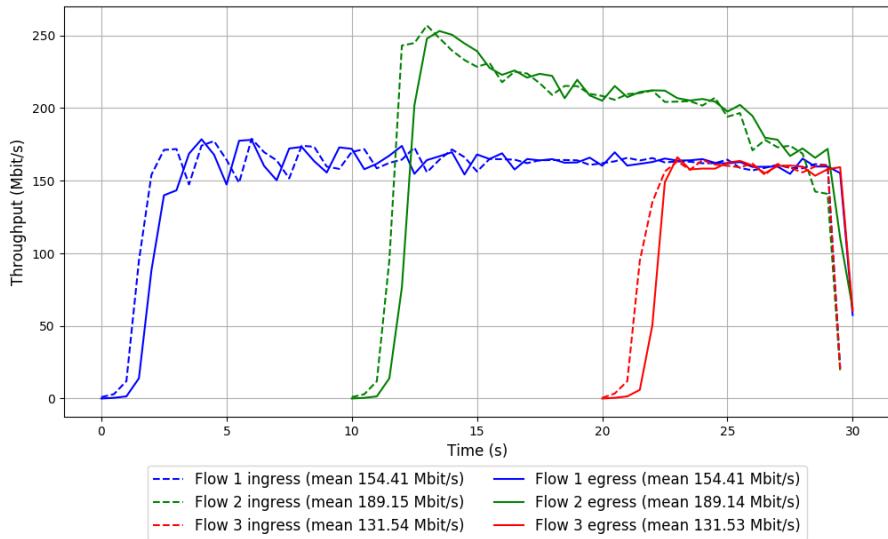


Run 3: Statistics of Indigo

```
Start at: 2019-01-21 10:32:45
End at: 2019-01-21 10:33:15
Local clock offset: -0.727 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2019-01-21 13:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 321.74 Mbit/s
95th percentile per-packet one-way delay: 110.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.41 Mbit/s
95th percentile per-packet one-way delay: 110.600 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 189.14 Mbit/s
95th percentile per-packet one-way delay: 110.880 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 131.53 Mbit/s
95th percentile per-packet one-way delay: 111.574 ms
Loss rate: 0.00%
```

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

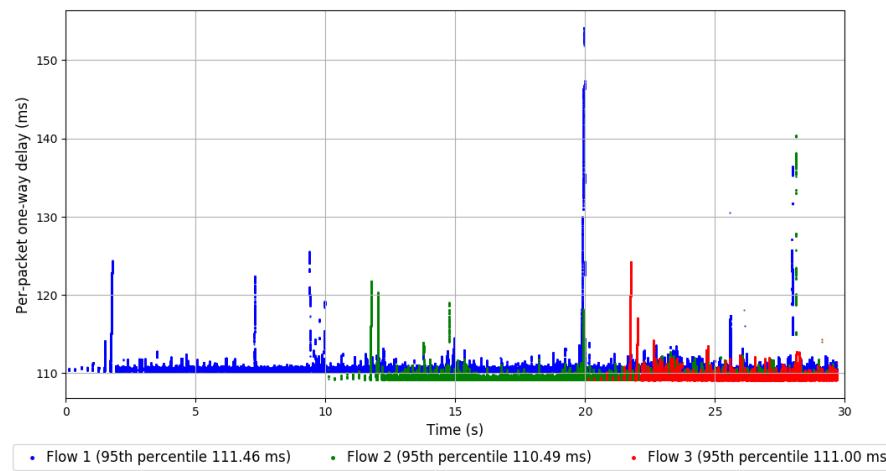
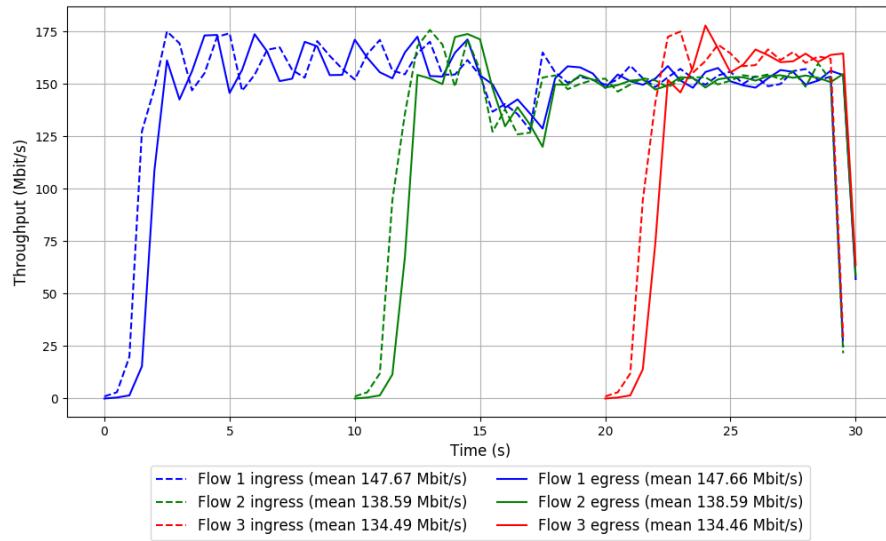


Run 4: Statistics of Indigo

```
Start at: 2019-01-21 11:10:47
End at: 2019-01-21 11:11:17
Local clock offset: -0.655 ms
Remote clock offset: 0.202 ms

# Below is generated by plot.py at 2019-01-21 13:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.88 Mbit/s
95th percentile per-packet one-way delay: 111.172 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 147.66 Mbit/s
95th percentile per-packet one-way delay: 111.464 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 138.59 Mbit/s
95th percentile per-packet one-way delay: 110.493 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 134.46 Mbit/s
95th percentile per-packet one-way delay: 111.004 ms
Loss rate: 0.01%
```

Run 4: Report of Indigo — Data Link

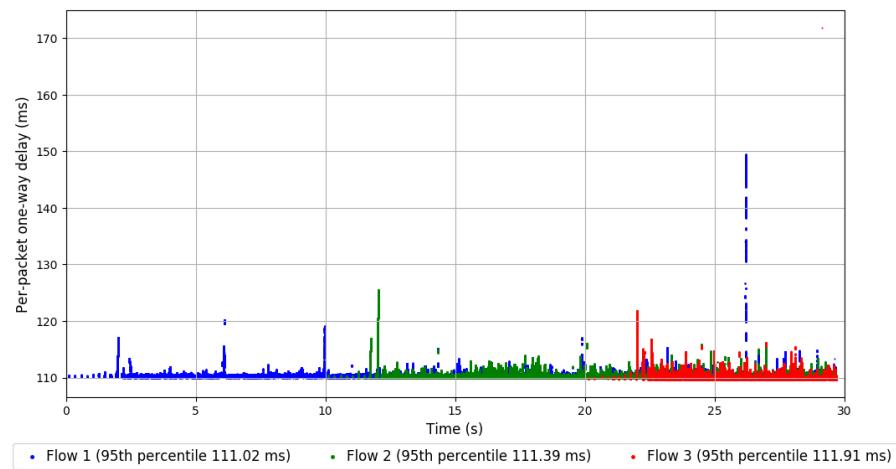
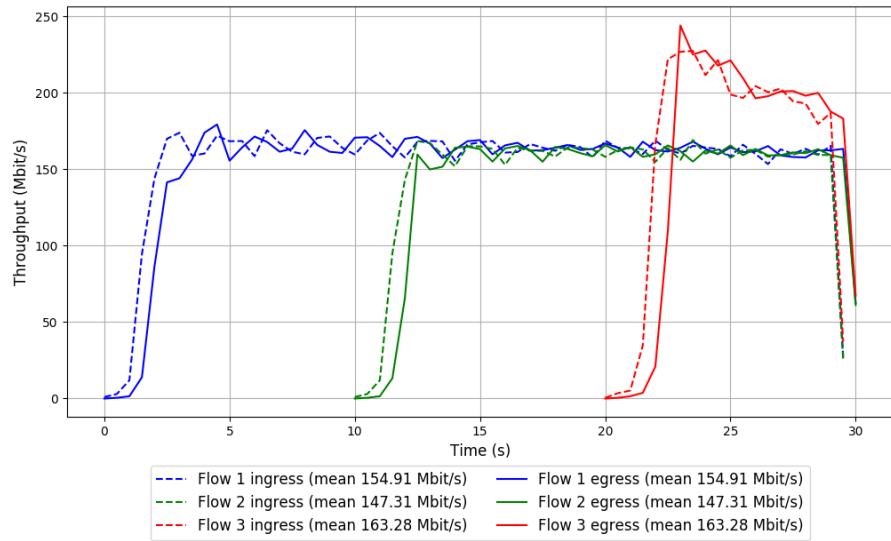


Run 5: Statistics of Indigo

```
Start at: 2019-01-21 11:48:09
End at: 2019-01-21 11:48:39
Local clock offset: -0.827 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-01-21 13:38:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.04 Mbit/s
95th percentile per-packet one-way delay: 111.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.91 Mbit/s
95th percentile per-packet one-way delay: 111.015 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 147.31 Mbit/s
95th percentile per-packet one-way delay: 111.393 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 163.28 Mbit/s
95th percentile per-packet one-way delay: 111.908 ms
Loss rate: 0.00%
```

## Run 5: Report of Indigo — Data Link

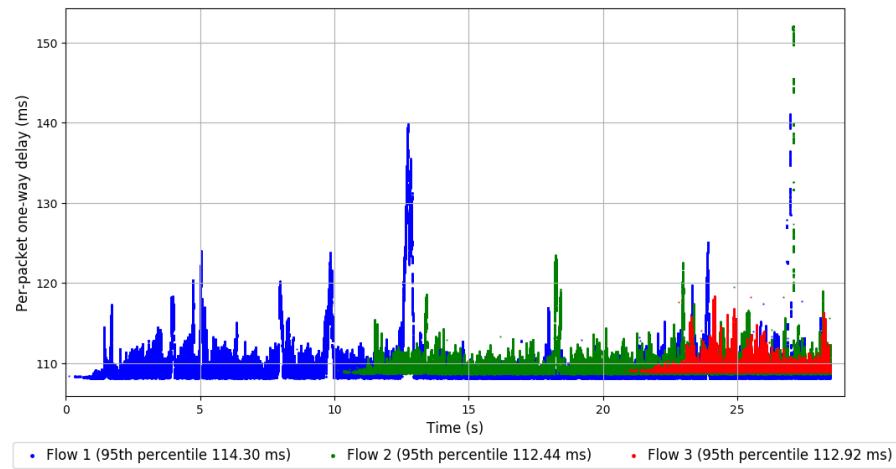
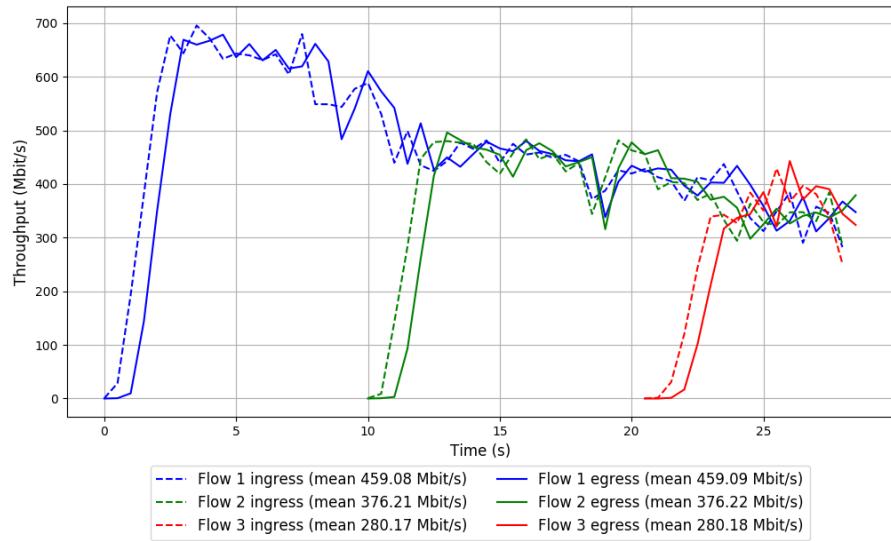


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 09:02:53
End at: 2019-01-21 09:03:23
Local clock offset: 0.232 ms
Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2019-01-21 13:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 778.28 Mbit/s
95th percentile per-packet one-way delay: 113.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 459.09 Mbit/s
95th percentile per-packet one-way delay: 114.297 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 376.22 Mbit/s
95th percentile per-packet one-way delay: 112.439 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 280.18 Mbit/s
95th percentile per-packet one-way delay: 112.925 ms
Loss rate: 0.00%
```

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

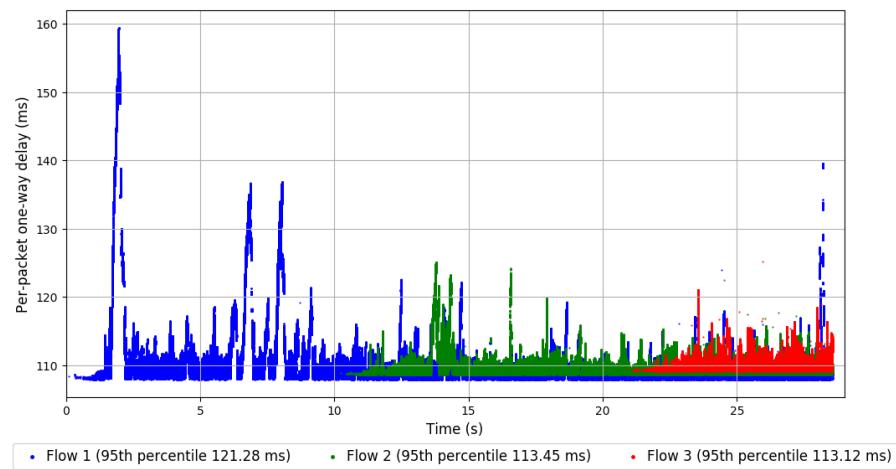
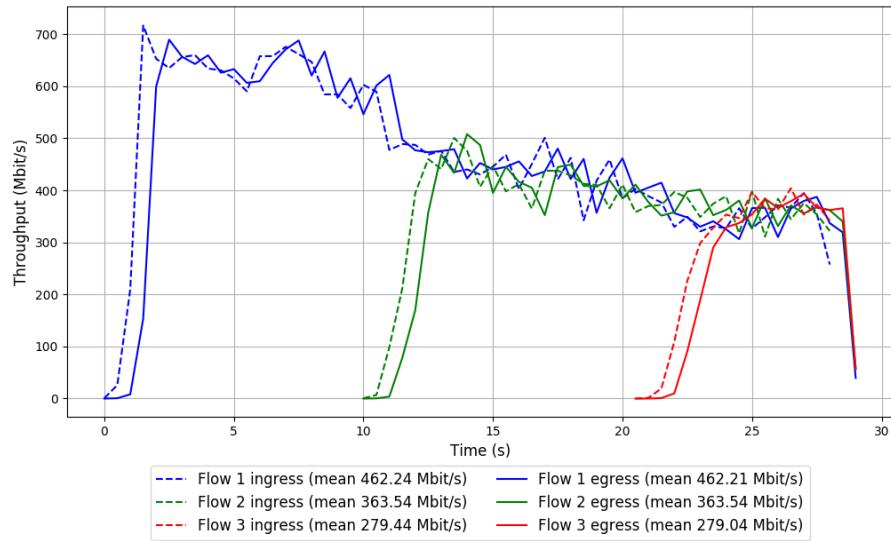


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 09:40:29
End at: 2019-01-21 09:40:59
Local clock offset: 0.082 ms
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2019-01-21 13:44:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 771.28 Mbit/s
95th percentile per-packet one-way delay: 116.757 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 462.21 Mbit/s
95th percentile per-packet one-way delay: 121.282 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 363.54 Mbit/s
95th percentile per-packet one-way delay: 113.453 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 279.04 Mbit/s
95th percentile per-packet one-way delay: 113.121 ms
Loss rate: 0.14%
```

Run 2: Report of Indigo-MusesC3 — Data Link

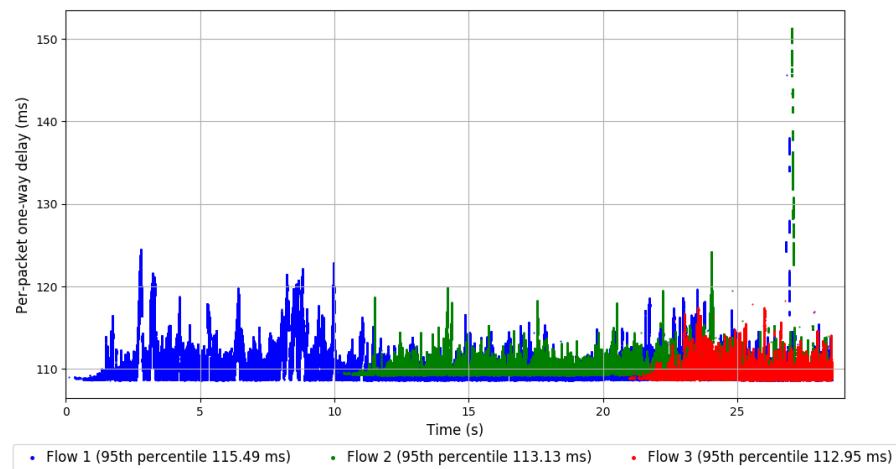
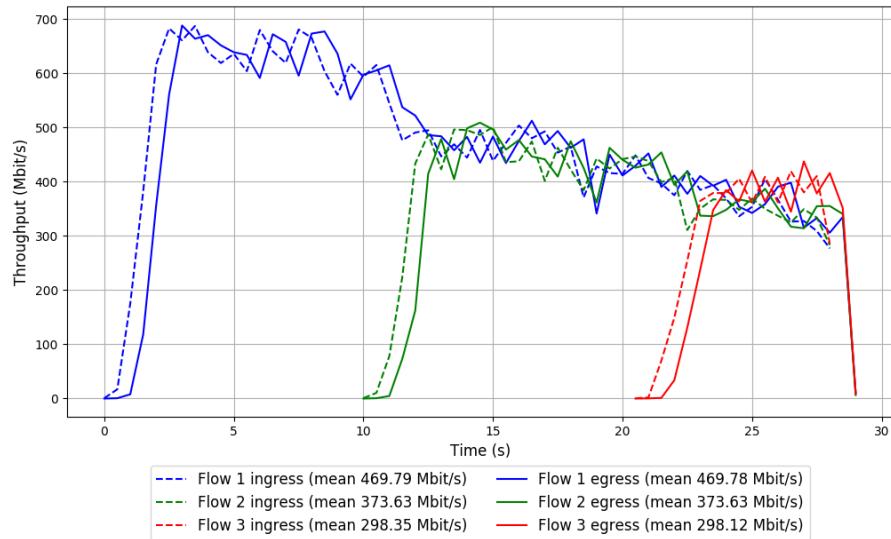


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 10:19:15
End at: 2019-01-21 10:19:45
Local clock offset: -0.431 ms
Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2019-01-21 13:48:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 793.12 Mbit/s
95th percentile per-packet one-way delay: 114.557 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 469.78 Mbit/s
95th percentile per-packet one-way delay: 115.491 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 373.63 Mbit/s
95th percentile per-packet one-way delay: 113.134 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 298.12 Mbit/s
95th percentile per-packet one-way delay: 112.947 ms
Loss rate: 0.09%
```

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

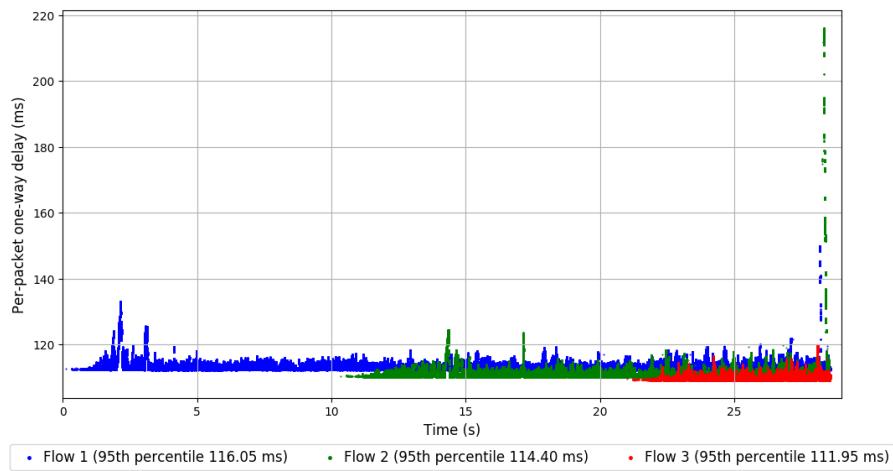
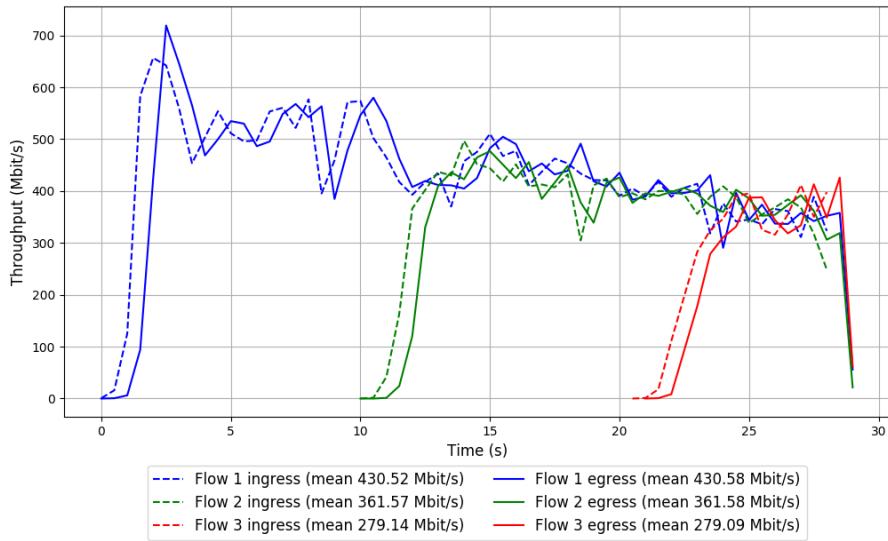


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 10:58:24
End at: 2019-01-21 10:58:54
Local clock offset: -0.771 ms
Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2019-01-21 13:48:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 736.39 Mbit/s
95th percentile per-packet one-way delay: 115.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 430.58 Mbit/s
95th percentile per-packet one-way delay: 116.053 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 361.58 Mbit/s
95th percentile per-packet one-way delay: 114.396 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 279.09 Mbit/s
95th percentile per-packet one-way delay: 111.946 ms
Loss rate: 0.00%
```

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

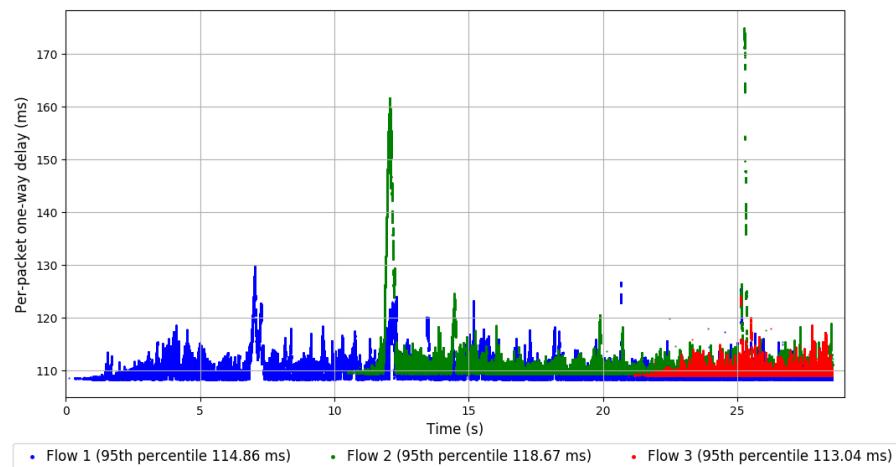
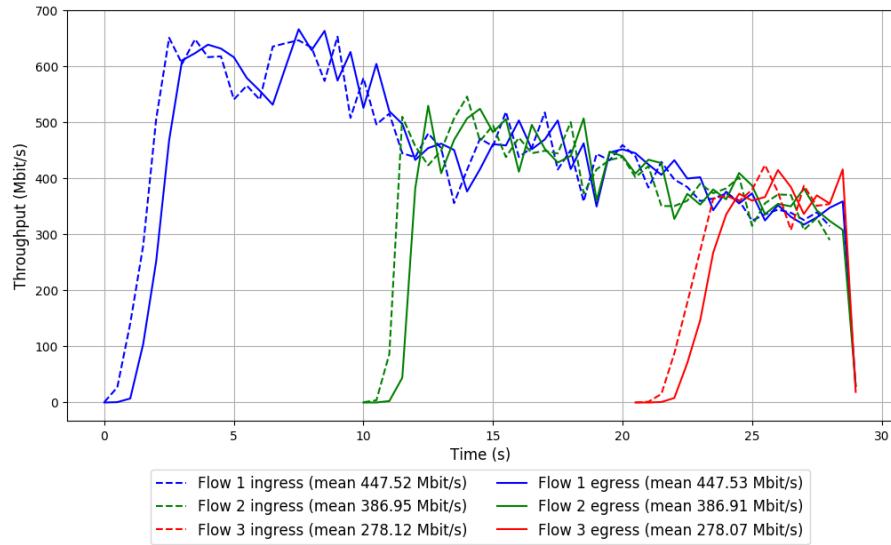


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-21 11:35:57
End at: 2019-01-21 11:36:27
Local clock offset: -0.117 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-01-21 13:53:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 770.28 Mbit/s
95th percentile per-packet one-way delay: 115.246 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 447.53 Mbit/s
95th percentile per-packet one-way delay: 114.860 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 386.91 Mbit/s
95th percentile per-packet one-way delay: 118.670 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 278.07 Mbit/s
95th percentile per-packet one-way delay: 113.041 ms
Loss rate: 0.01%
```

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

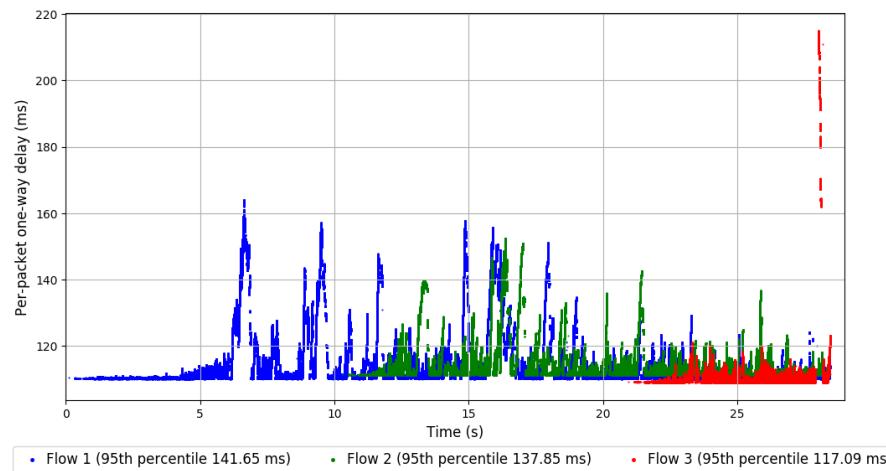
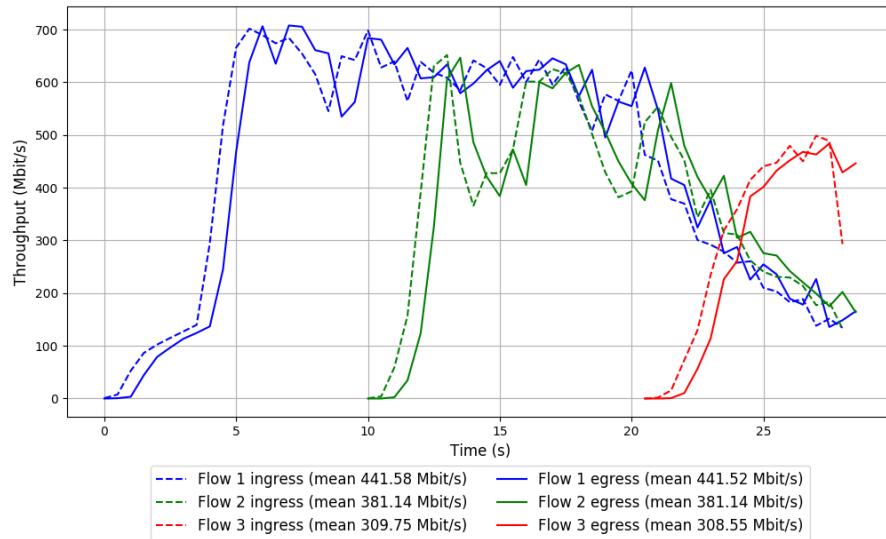


```
Run 1: Statistics of Indigo-MusesC5
```

```
Start at: 2019-01-21 09:12:07
End at: 2019-01-21 09:12:37
Local clock offset: -0.804 ms
Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2019-01-21 13:56:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 766.86 Mbit/s
95th percentile per-packet one-way delay: 139.968 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 441.52 Mbit/s
95th percentile per-packet one-way delay: 141.646 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 381.14 Mbit/s
95th percentile per-packet one-way delay: 137.848 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 308.55 Mbit/s
95th percentile per-packet one-way delay: 117.094 ms
Loss rate: 0.37%
```

## Run 1: Report of Indigo-MusesC5 — Data Link

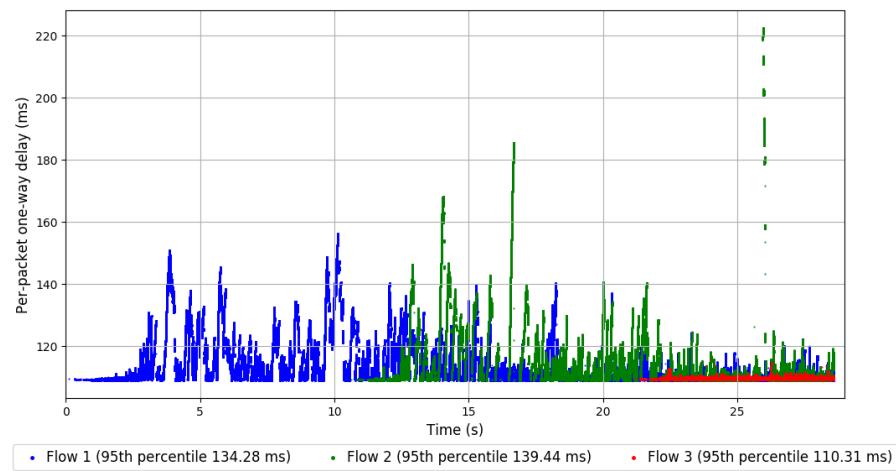
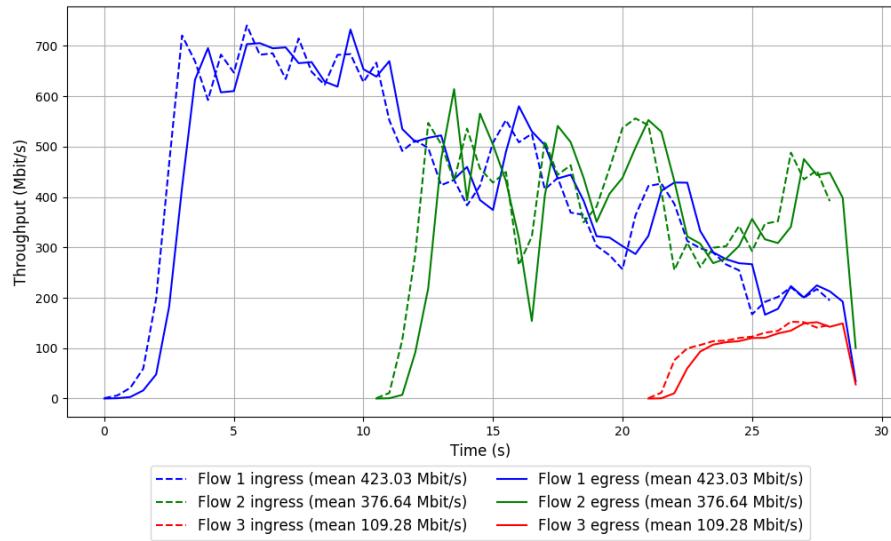


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 09:49:58
End at: 2019-01-21 09:50:28
Local clock offset: -0.821 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-01-21 13:56:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 689.05 Mbit/s
95th percentile per-packet one-way delay: 135.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 423.03 Mbit/s
95th percentile per-packet one-way delay: 134.284 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 376.64 Mbit/s
95th percentile per-packet one-way delay: 139.441 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 109.28 Mbit/s
95th percentile per-packet one-way delay: 110.312 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-MusesC5 — Data Link

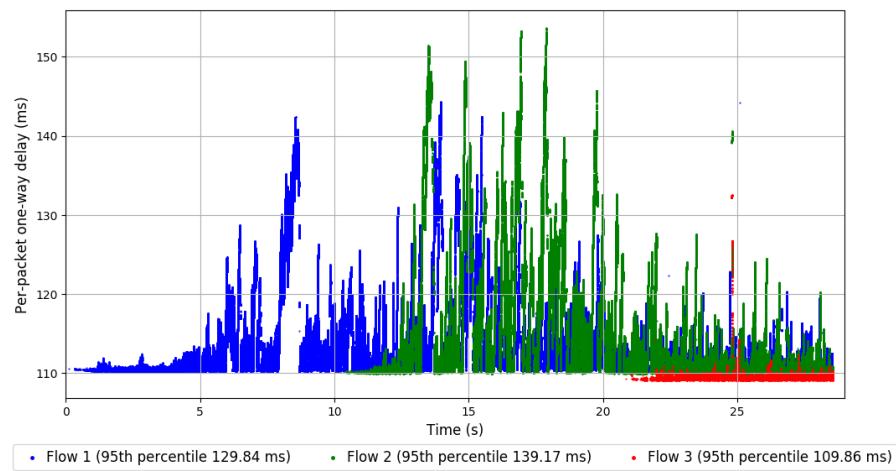
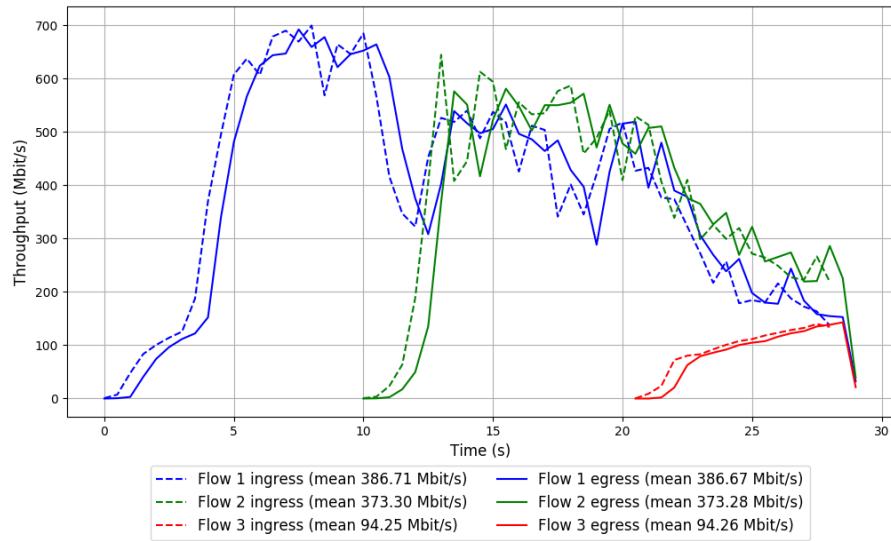


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 10:29:32
End at: 2019-01-21 10:30:02
Local clock offset: -0.799 ms
Remote clock offset: 0.202 ms

# Below is generated by plot.py at 2019-01-21 13:56:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 652.42 Mbit/s
95th percentile per-packet one-way delay: 133.539 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 386.67 Mbit/s
95th percentile per-packet one-way delay: 129.841 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 373.28 Mbit/s
95th percentile per-packet one-way delay: 139.166 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 94.26 Mbit/s
95th percentile per-packet one-way delay: 109.858 ms
Loss rate: 0.00%
```

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

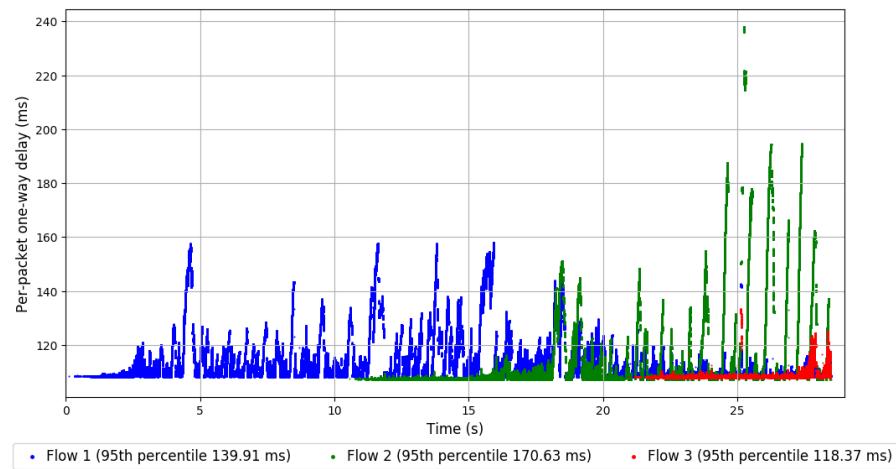
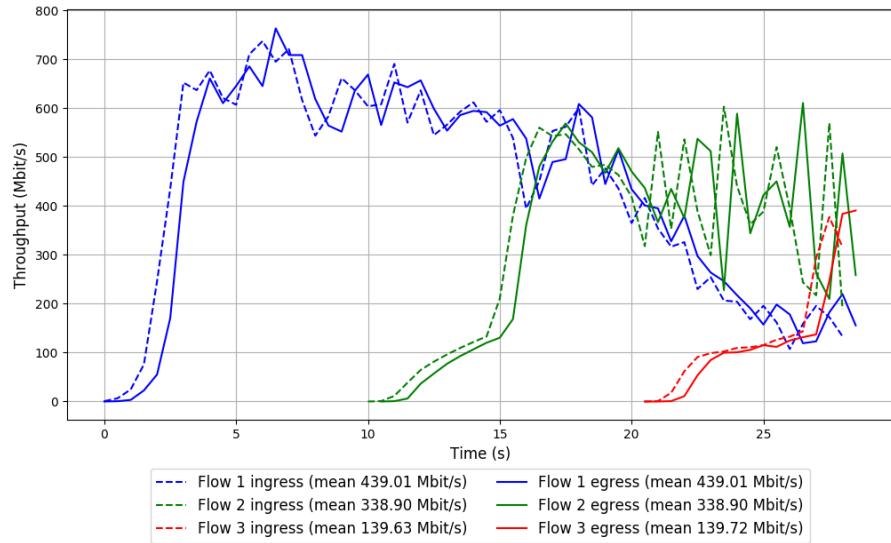


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 11:07:34
End at: 2019-01-21 11:08:04
Local clock offset: 1.031 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-01-21 14:00:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 689.93 Mbit/s
95th percentile per-packet one-way delay: 146.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 439.01 Mbit/s
95th percentile per-packet one-way delay: 139.907 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 338.90 Mbit/s
95th percentile per-packet one-way delay: 170.632 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.72 Mbit/s
95th percentile per-packet one-way delay: 118.369 ms
Loss rate: 0.00%
```

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

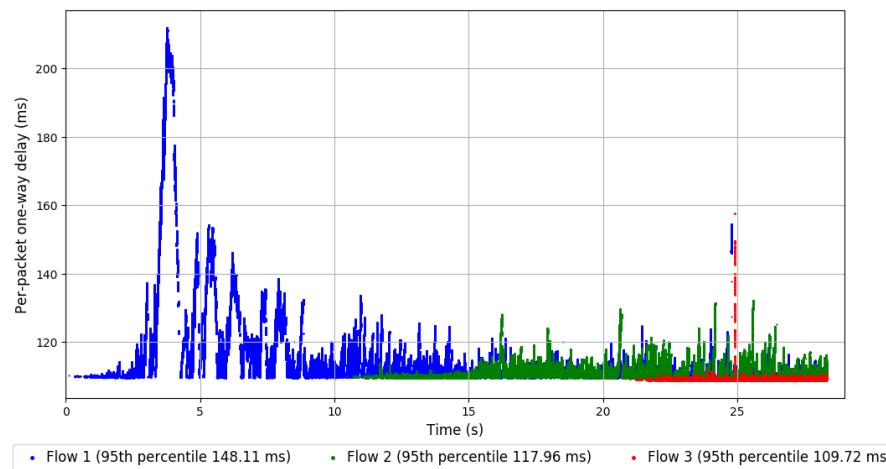
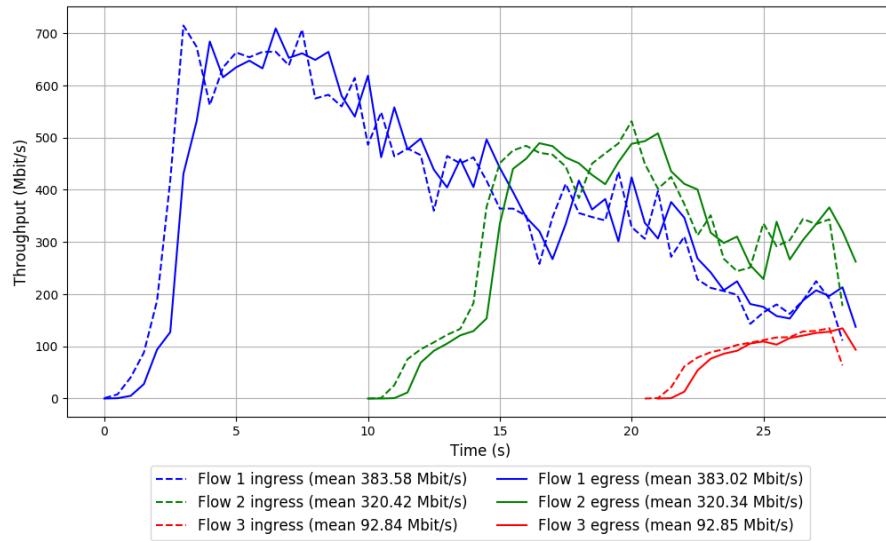


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-21 11:44:59
End at: 2019-01-21 11:45:29
Local clock offset: -0.661 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-21 14:00:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 609.64 Mbit/s
95th percentile per-packet one-way delay: 138.158 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 383.02 Mbit/s
95th percentile per-packet one-way delay: 148.111 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 320.34 Mbit/s
95th percentile per-packet one-way delay: 117.956 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 109.725 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesC5 — Data Link

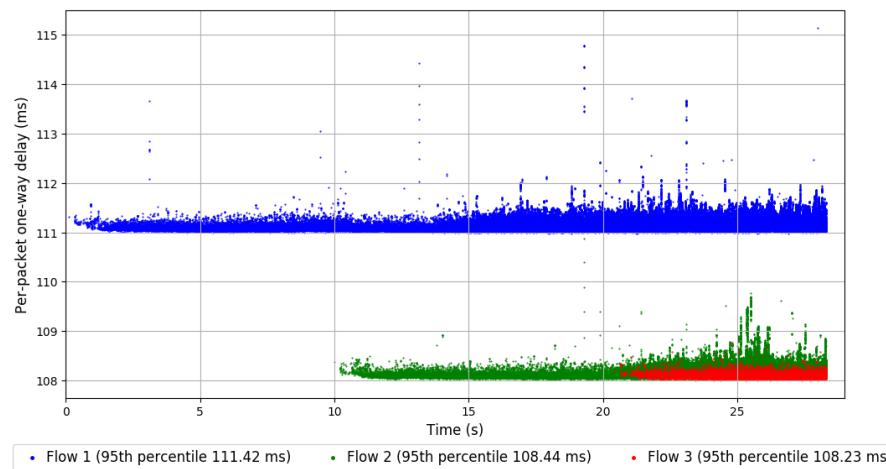
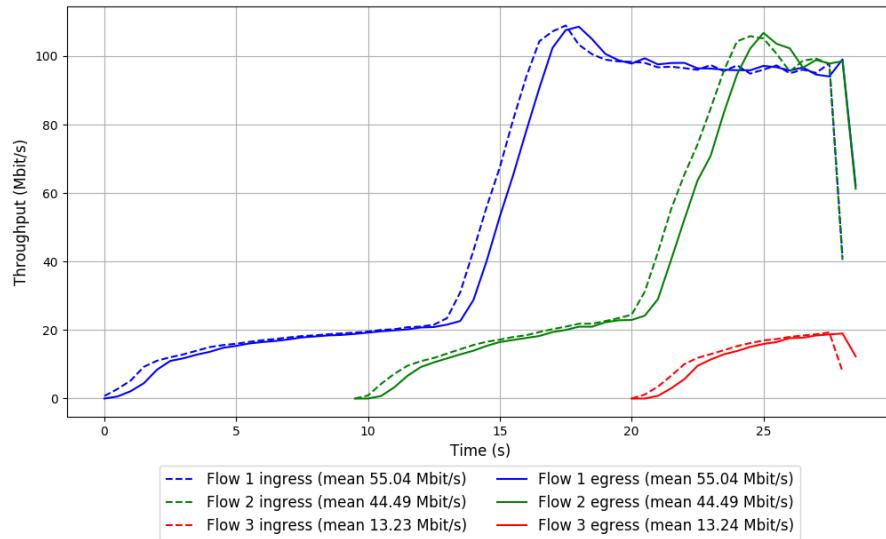


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 09:06:34
End at: 2019-01-21 09:07:04
Local clock offset: -0.186 ms
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2019-01-21 14:00:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 111.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 111.420 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.49 Mbit/s
95th percentile per-packet one-way delay: 108.442 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 108.231 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesD — Data Link

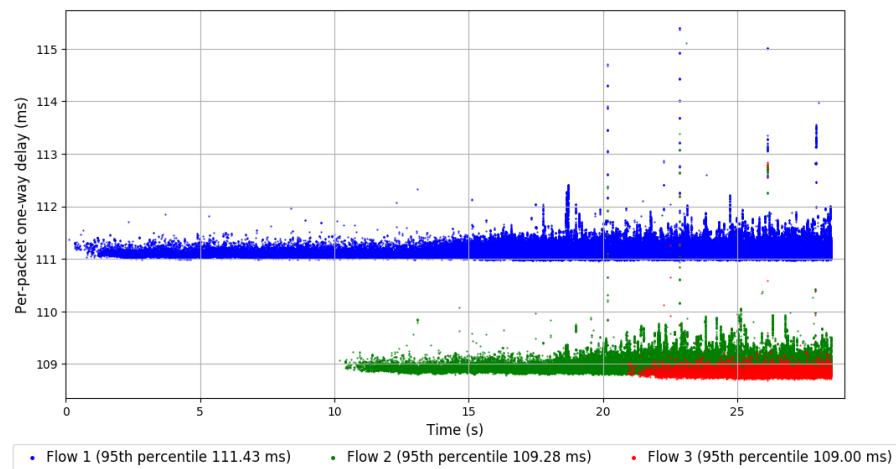
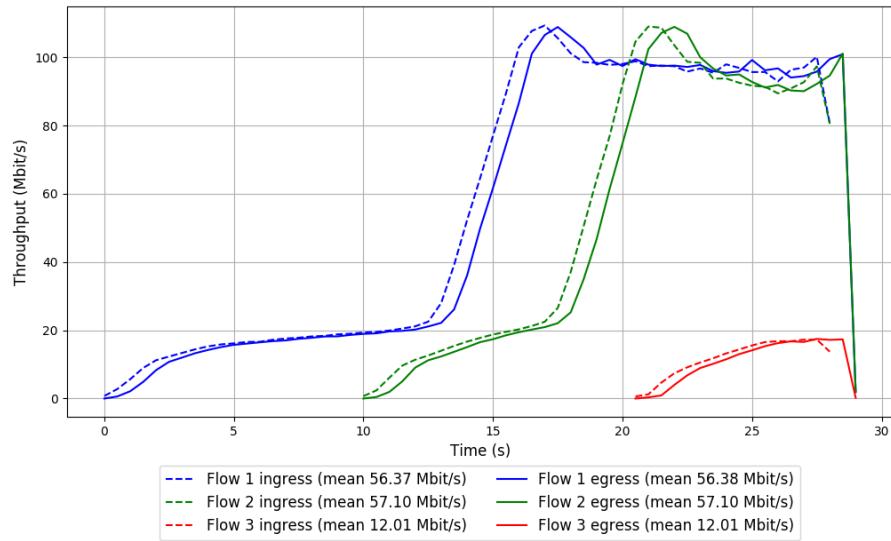


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 09:44:15
End at: 2019-01-21 09:44:45
Local clock offset: -0.084 ms
Remote clock offset: 0.359 ms

# Below is generated by plot.py at 2019-01-21 14:00:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 111.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.38 Mbit/s
95th percentile per-packet one-way delay: 111.432 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.10 Mbit/s
95th percentile per-packet one-way delay: 109.278 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.01 Mbit/s
95th percentile per-packet one-way delay: 108.995 ms
Loss rate: 0.00%
```

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

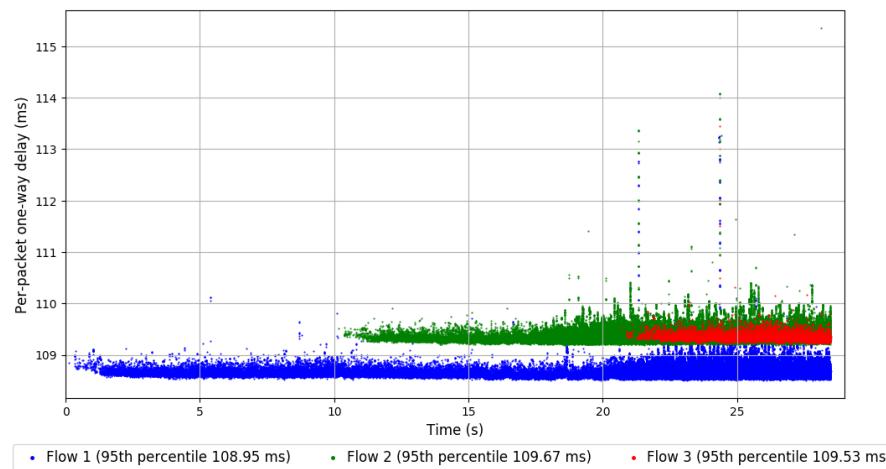
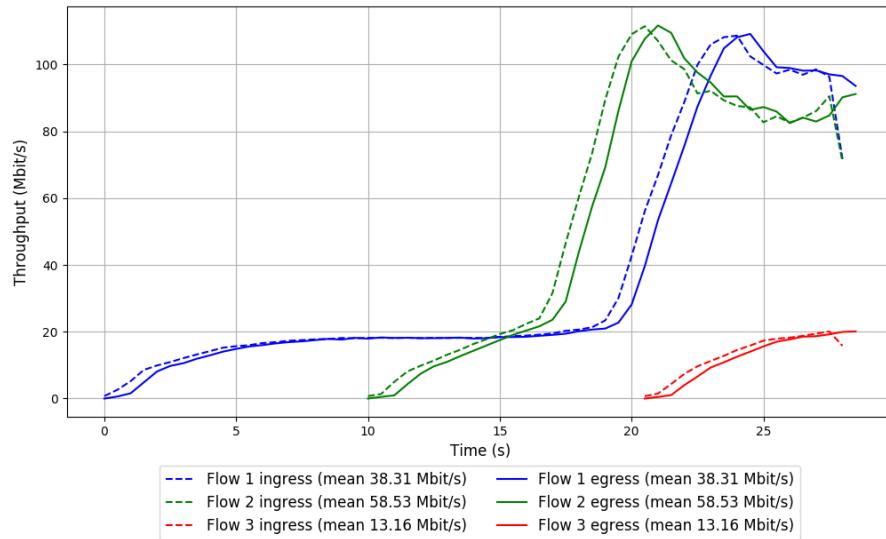


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 10:23:19
End at: 2019-01-21 10:23:49
Local clock offset: -0.244 ms
Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2019-01-21 14:00:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.72 Mbit/s
95th percentile per-packet one-way delay: 109.581 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.31 Mbit/s
95th percentile per-packet one-way delay: 108.946 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.53 Mbit/s
95th percentile per-packet one-way delay: 109.673 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.16 Mbit/s
95th percentile per-packet one-way delay: 109.528 ms
Loss rate: 0.00%
```

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

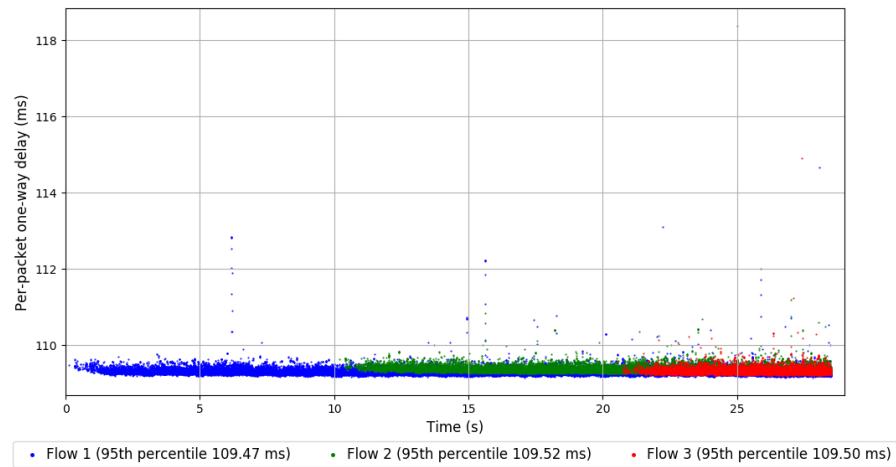
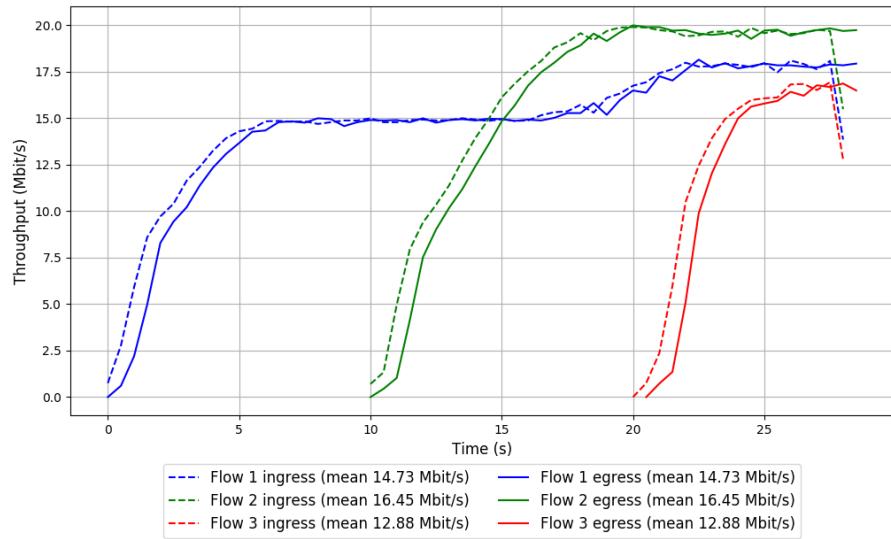


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 11:02:02
End at: 2019-01-21 11:02:32
Local clock offset: 0.019 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-01-21 14:00:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.94 Mbit/s
95th percentile per-packet one-way delay: 109.496 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 109.466 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 109.524 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.88 Mbit/s
95th percentile per-packet one-way delay: 109.499 ms
Loss rate: 0.00%
```

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

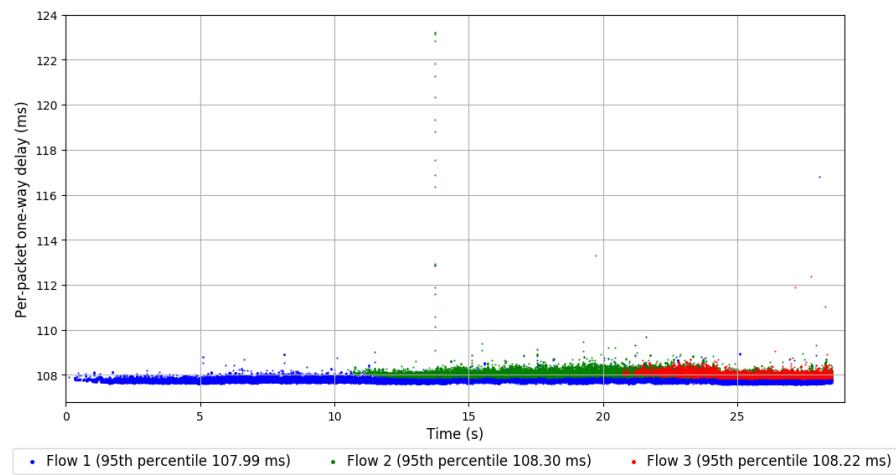
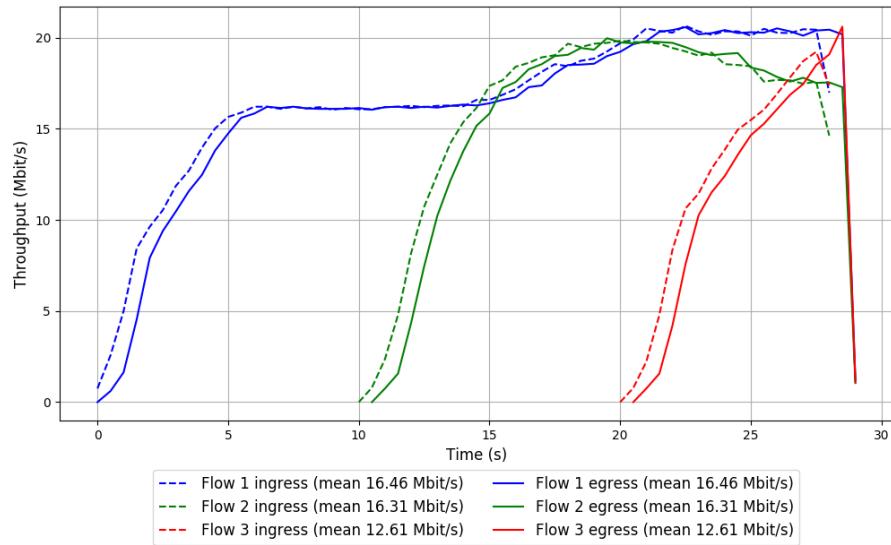


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-21 11:39:29
End at: 2019-01-21 11:39:59
Local clock offset: 1.258 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-01-21 14:00:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.34 Mbit/s
95th percentile per-packet one-way delay: 108.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.46 Mbit/s
95th percentile per-packet one-way delay: 107.989 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.31 Mbit/s
95th percentile per-packet one-way delay: 108.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 108.216 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

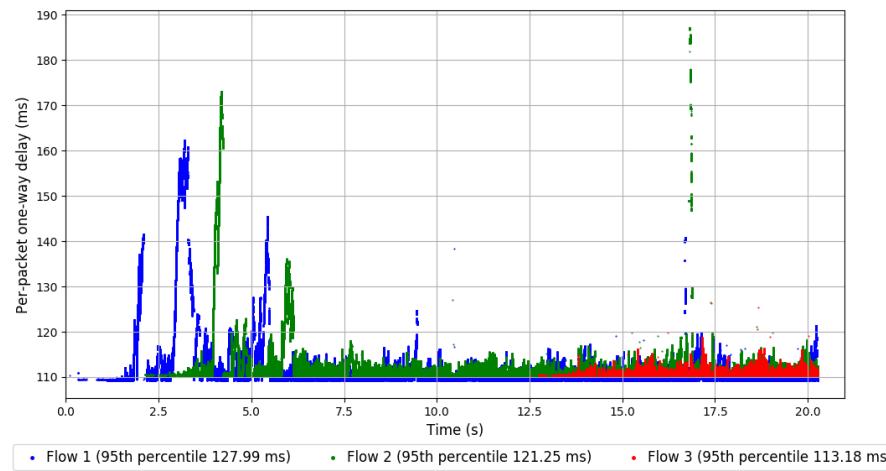
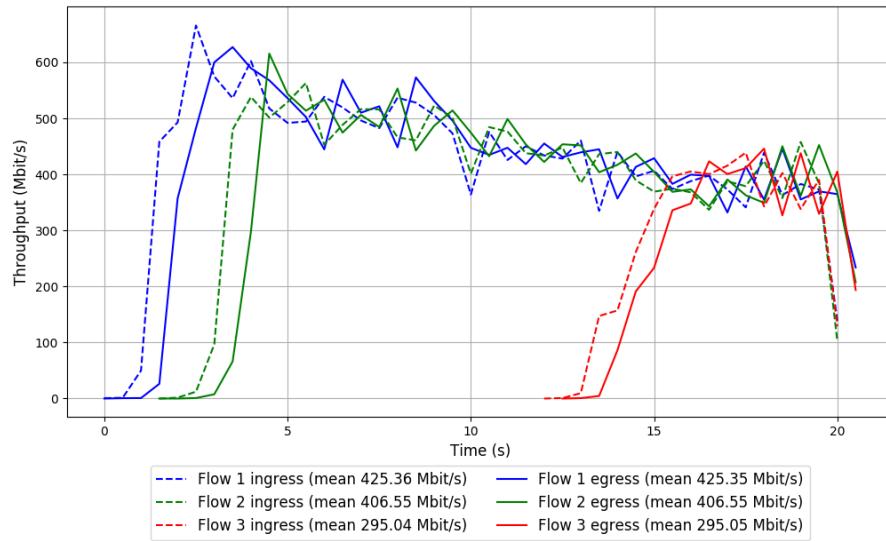
Start at: 2019-01-21 08:55:05

End at: 2019-01-21 08:55:35

Local clock offset: -0.997 ms

Remote clock offset: 0.169 ms

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

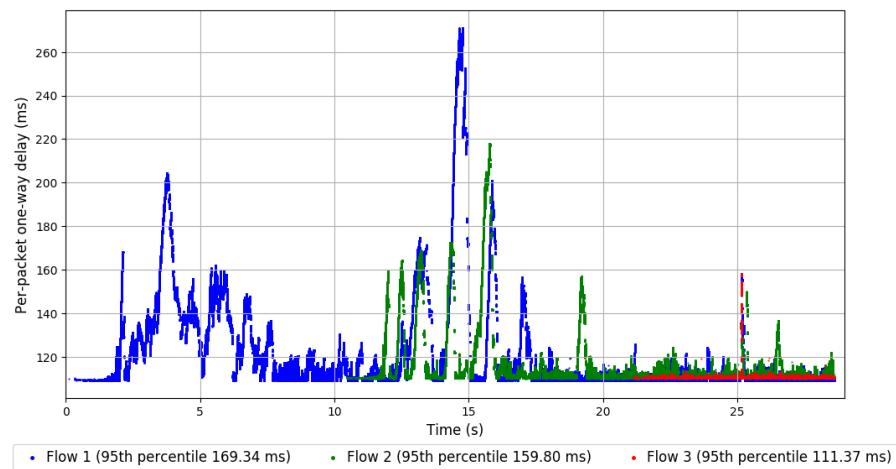
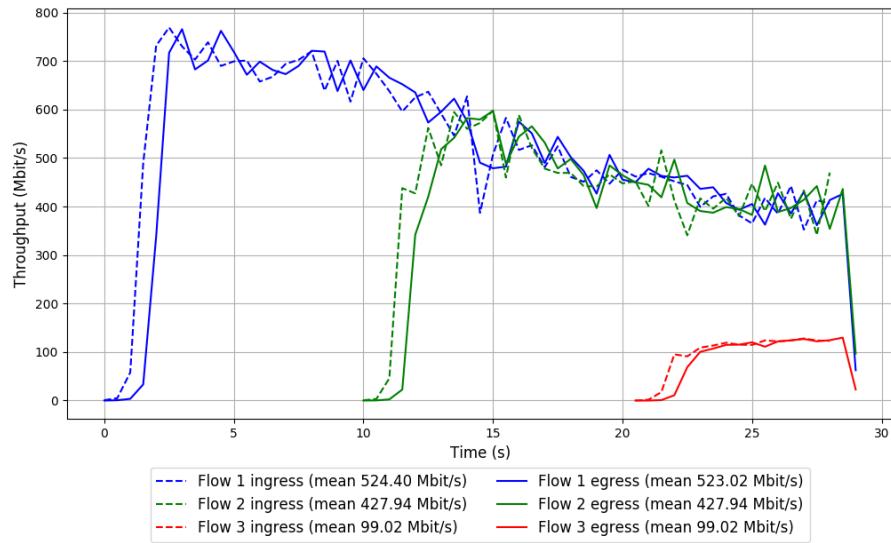


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 09:32:22
End at: 2019-01-21 09:32:52
Local clock offset: -1.302 ms
Remote clock offset: -0.363 ms

# Below is generated by plot.py at 2019-01-21 14:11:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 825.30 Mbit/s
95th percentile per-packet one-way delay: 164.643 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 523.02 Mbit/s
95th percentile per-packet one-way delay: 169.337 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 427.94 Mbit/s
95th percentile per-packet one-way delay: 159.798 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.02 Mbit/s
95th percentile per-packet one-way delay: 111.366 ms
Loss rate: 0.00%
```

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

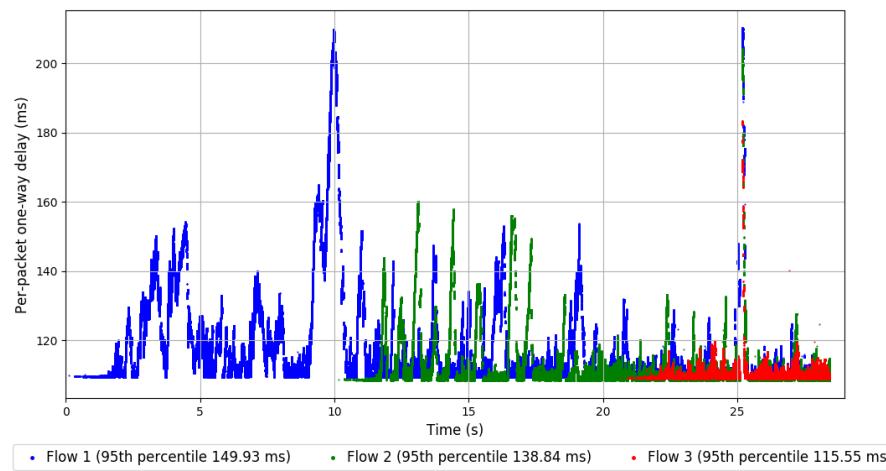
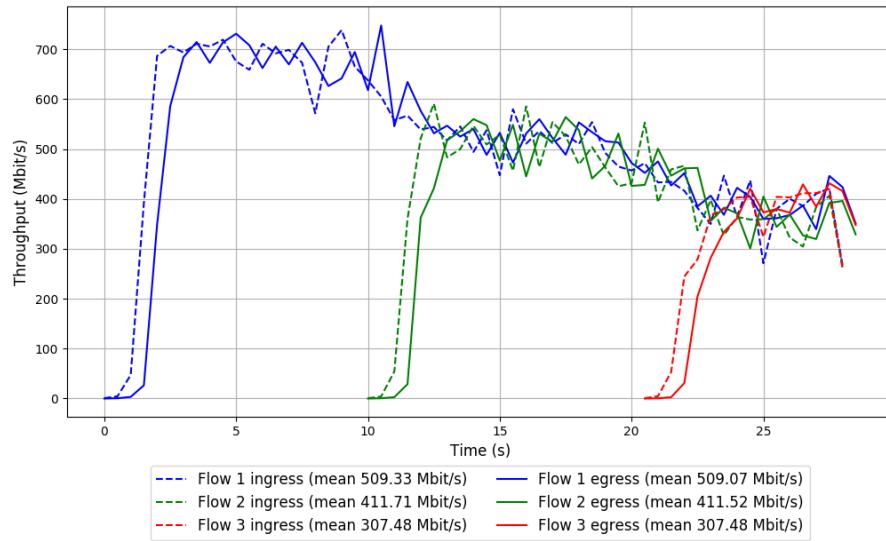


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 10:10:56
End at: 2019-01-21 10:11:26
Local clock offset: -0.026 ms
Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2019-01-21 14:13:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 858.75 Mbit/s
95th percentile per-packet one-way delay: 146.023 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 509.07 Mbit/s
95th percentile per-packet one-way delay: 149.928 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 411.52 Mbit/s
95th percentile per-packet one-way delay: 138.845 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 307.48 Mbit/s
95th percentile per-packet one-way delay: 115.551 ms
Loss rate: 0.00%
```

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

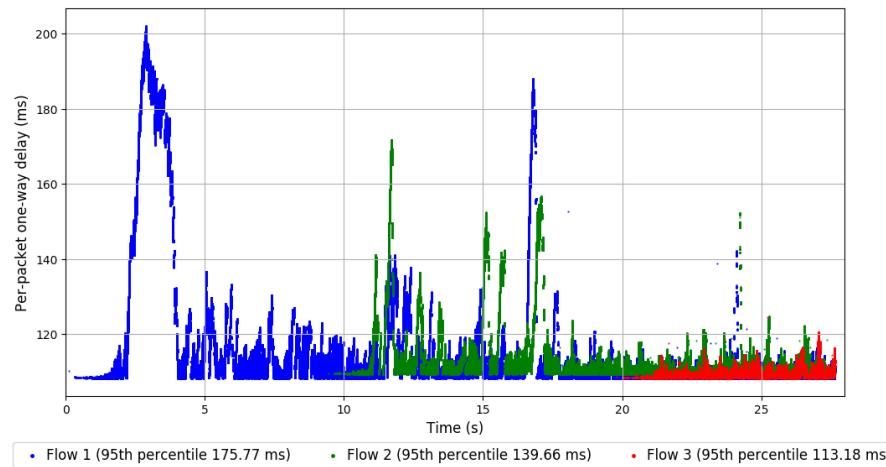
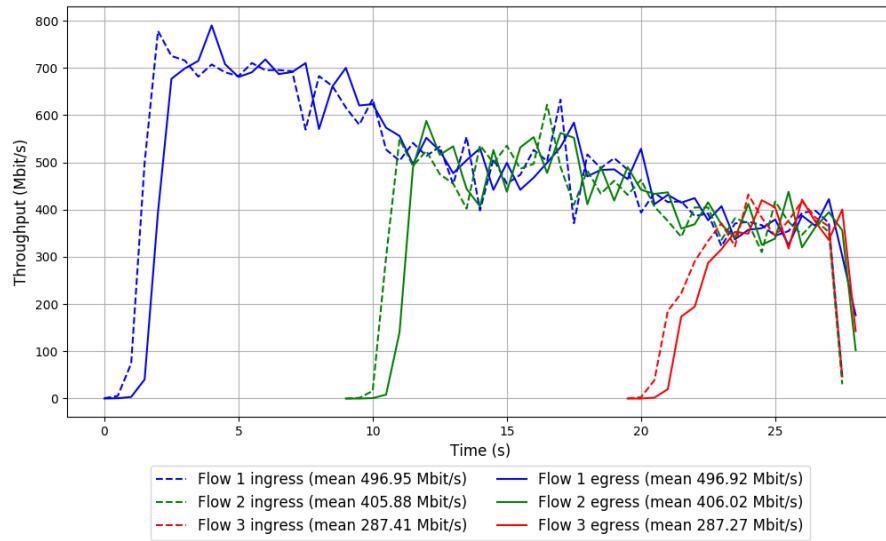


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 10:49:59
End at: 2019-01-21 10:50:29
Local clock offset: -0.104 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-01-21 14:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 847.35 Mbit/s
95th percentile per-packet one-way delay: 153.411 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 496.92 Mbit/s
95th percentile per-packet one-way delay: 175.770 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 406.02 Mbit/s
95th percentile per-packet one-way delay: 139.658 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 287.27 Mbit/s
95th percentile per-packet one-way delay: 113.180 ms
Loss rate: 0.06%
```

Run 4: Report of Indigo-MusesT — Data Link

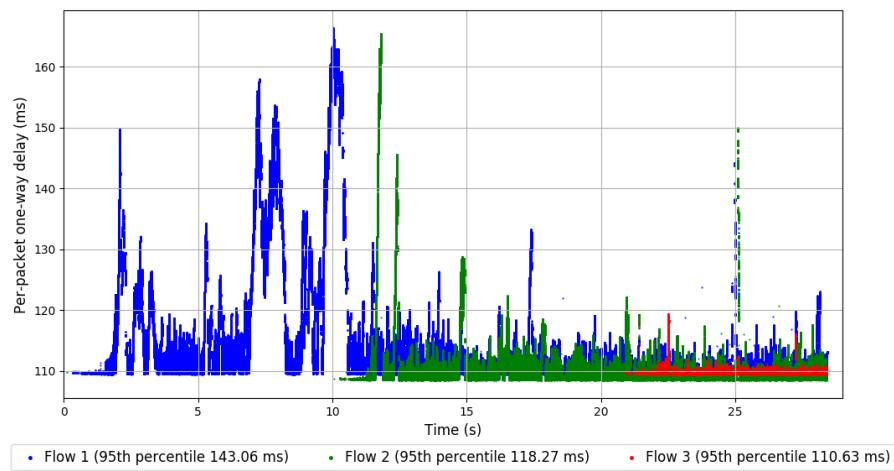
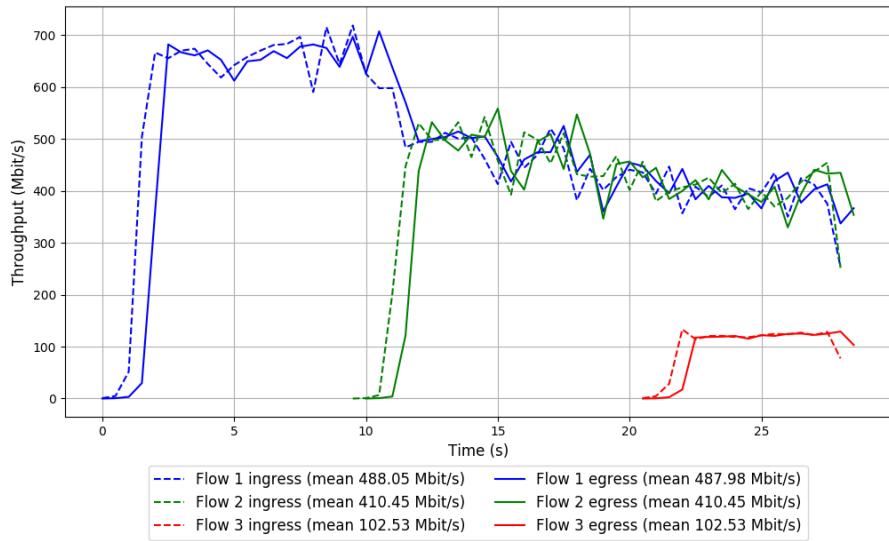


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-21 11:27:44
End at: 2019-01-21 11:28:14
Local clock offset: -0.275 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-21 14:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 782.21 Mbit/s
95th percentile per-packet one-way delay: 136.468 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 487.98 Mbit/s
95th percentile per-packet one-way delay: 143.060 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 410.45 Mbit/s
95th percentile per-packet one-way delay: 118.271 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 102.53 Mbit/s
95th percentile per-packet one-way delay: 110.628 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo-MusesT — Data Link

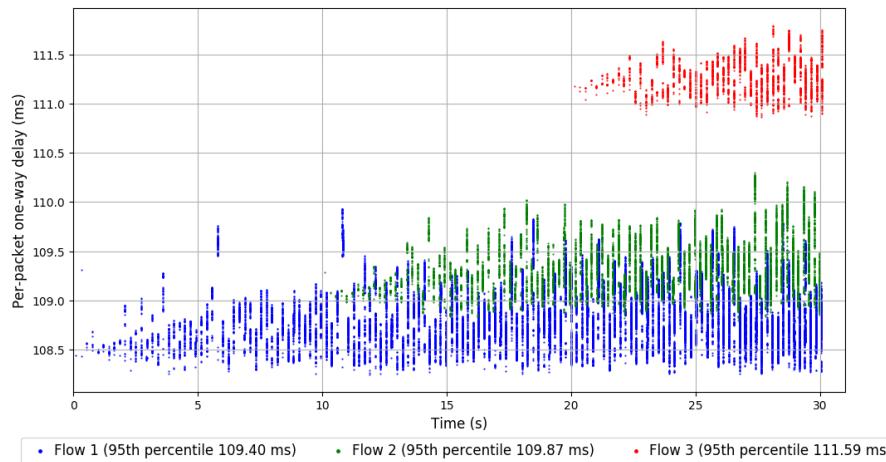
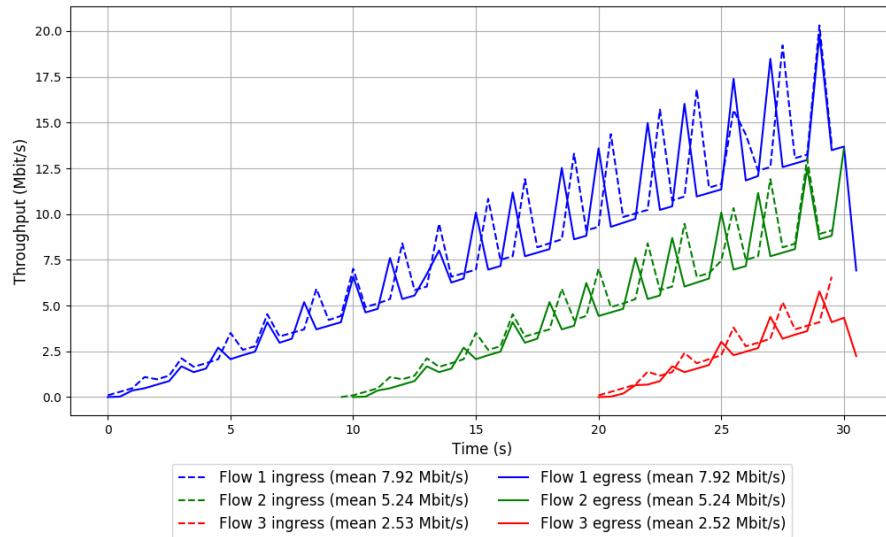


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-21 09:14:05
End at: 2019-01-21 09:14:35
Local clock offset: 0.082 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2019-01-21 14:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 111.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 109.398 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 109.871 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 111.588 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

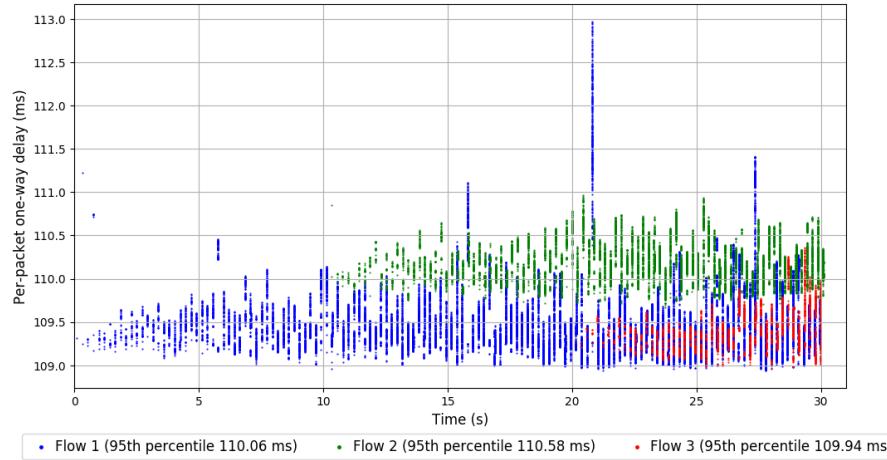
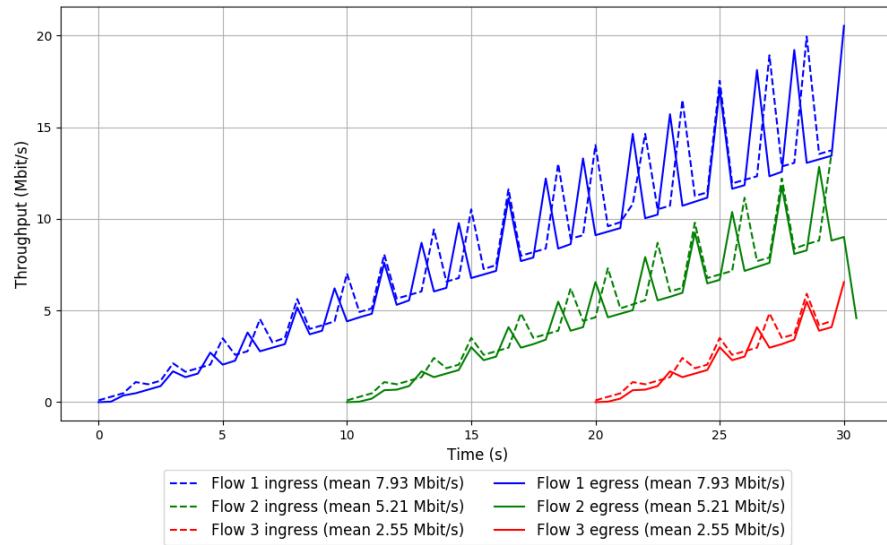


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-21 09:51:53
End at: 2019-01-21 09:52:23
Local clock offset: -0.353 ms
Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2019-01-21 14:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 110.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 110.064 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 110.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 109.942 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link

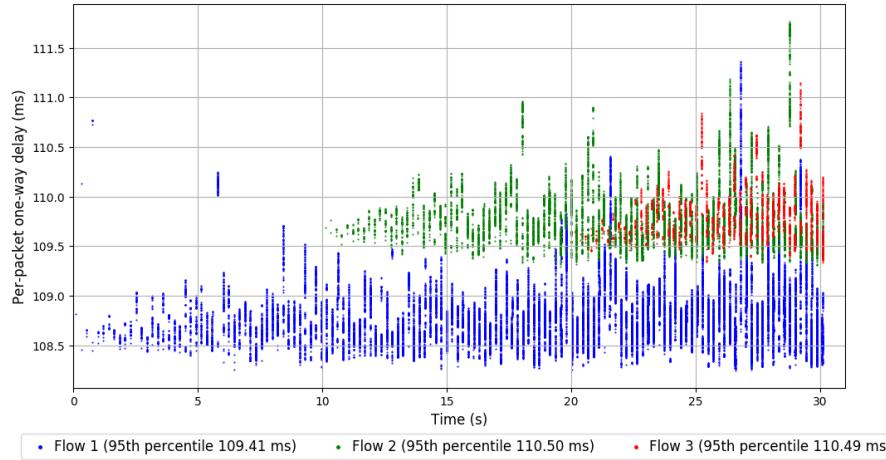
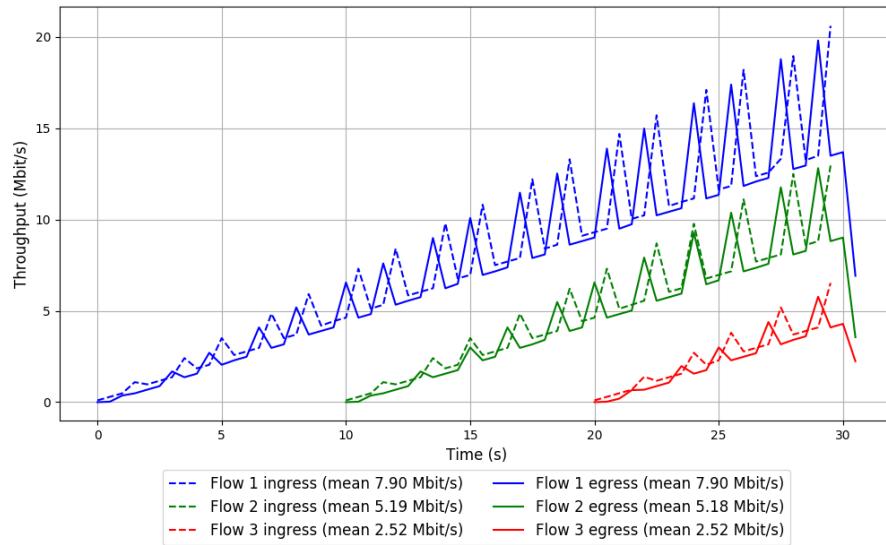


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-21 10:31:27
End at: 2019-01-21 10:31:57
Local clock offset: -0.016 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-01-21 14:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 110.126 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 7.90 Mbit/s
95th percentile per-packet one-way delay: 109.407 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 110.503 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 110.487 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

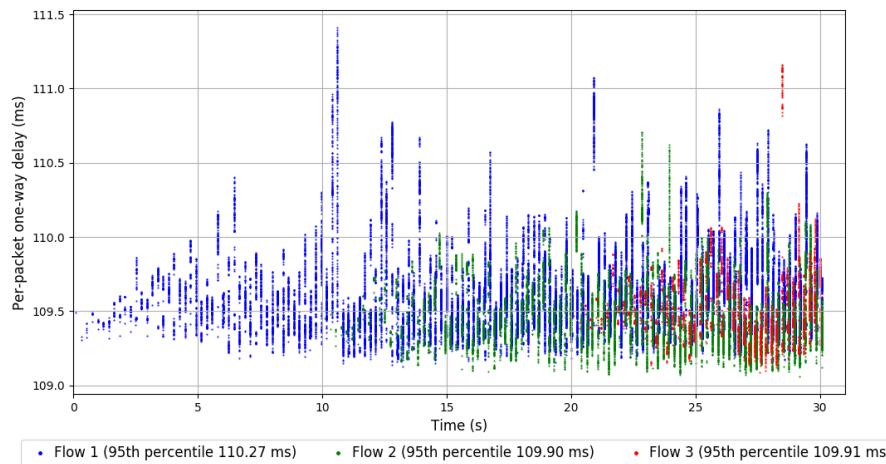
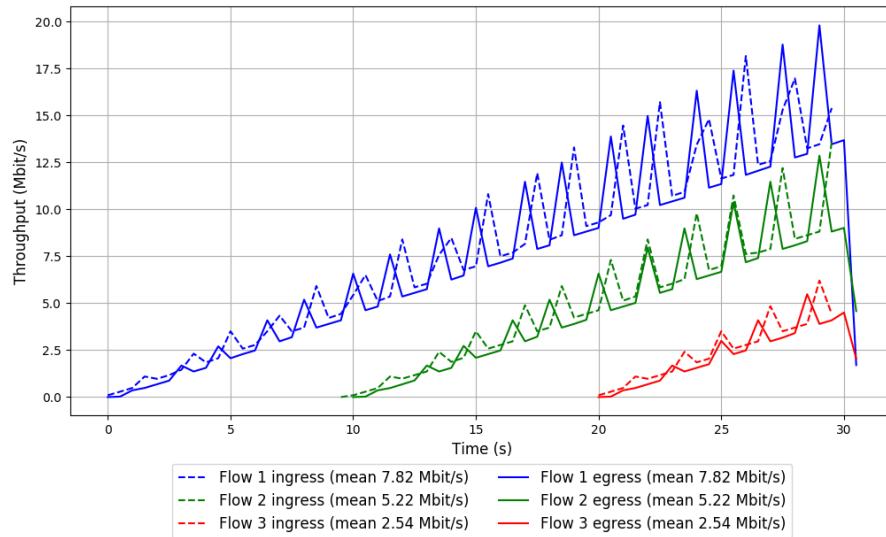


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-21 11:09:29
End at: 2019-01-21 11:09:59
Local clock offset: -0.28 ms
Remote clock offset: -0.462 ms

# Below is generated by plot.py at 2019-01-21 14:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 110.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 110.266 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 109.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 109.910 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

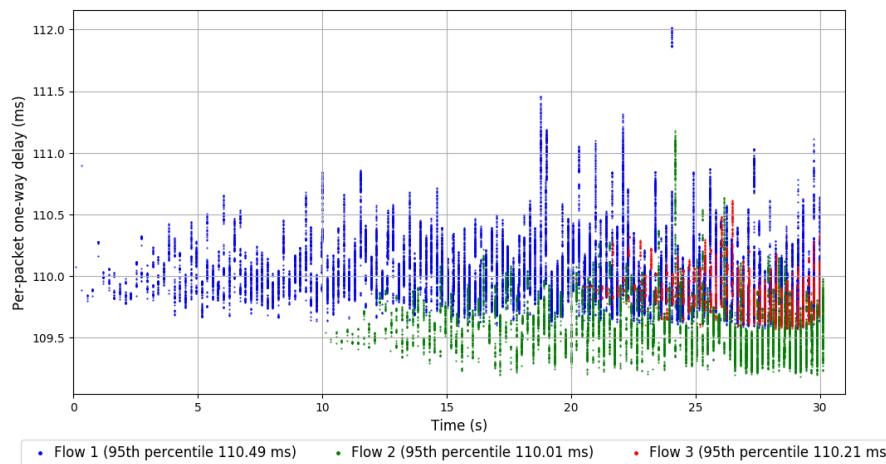
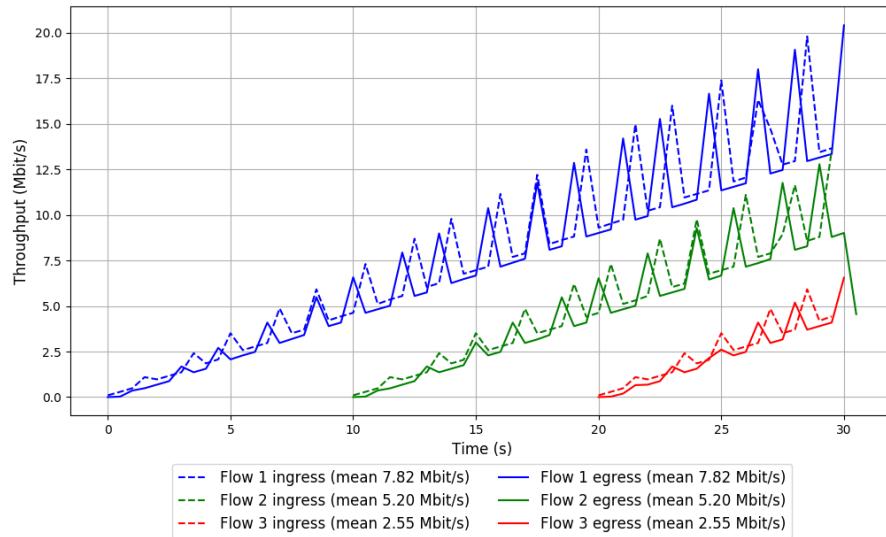


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-21 11:46:50
End at: 2019-01-21 11:47:20
Local clock offset: -0.279 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-01-21 14:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 110.414 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 110.491 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 110.008 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 110.206 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

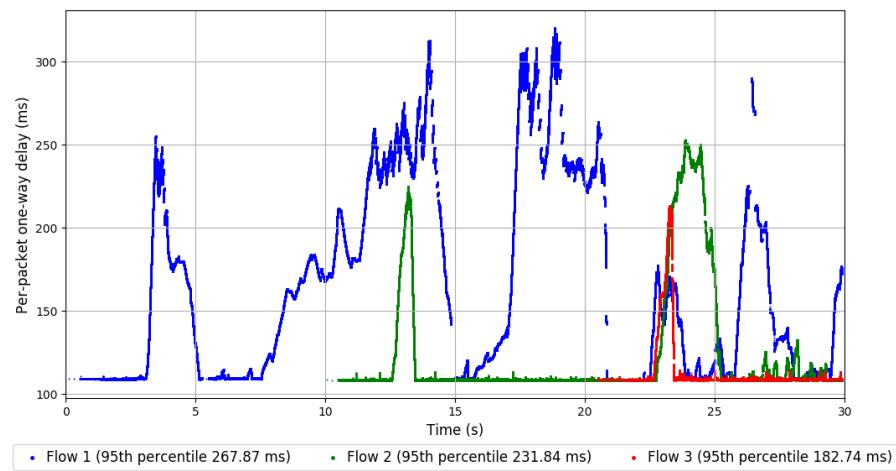
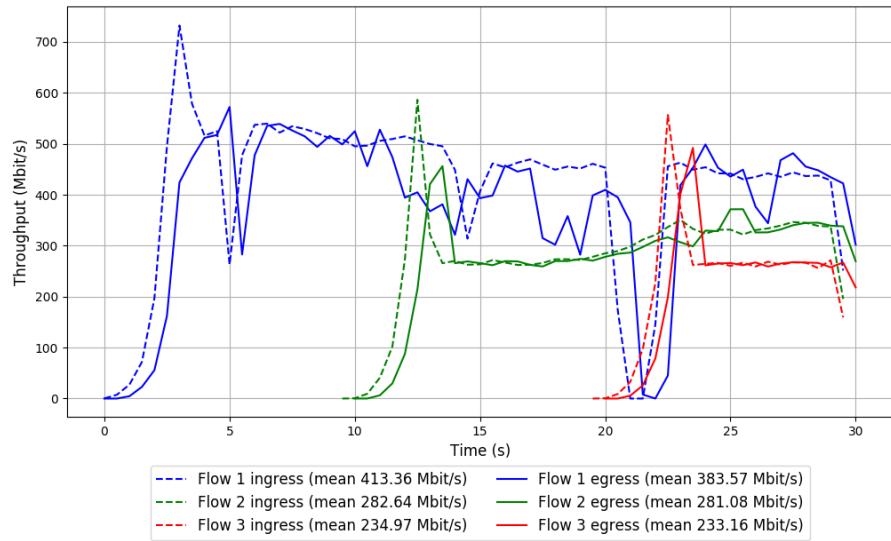


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-01-21 09:22:30
End at: 2019-01-21 09:23:00
Local clock offset: 0.055 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-01-21 14:28:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 647.94 Mbit/s
95th percentile per-packet one-way delay: 250.599 ms
Loss rate: 4.62%
-- Flow 1:
Average throughput: 383.57 Mbit/s
95th percentile per-packet one-way delay: 267.865 ms
Loss rate: 7.20%
-- Flow 2:
Average throughput: 281.08 Mbit/s
95th percentile per-packet one-way delay: 231.845 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 233.16 Mbit/s
95th percentile per-packet one-way delay: 182.742 ms
Loss rate: 0.77%
```

Run 1: Report of PCC-Allegro — Data Link

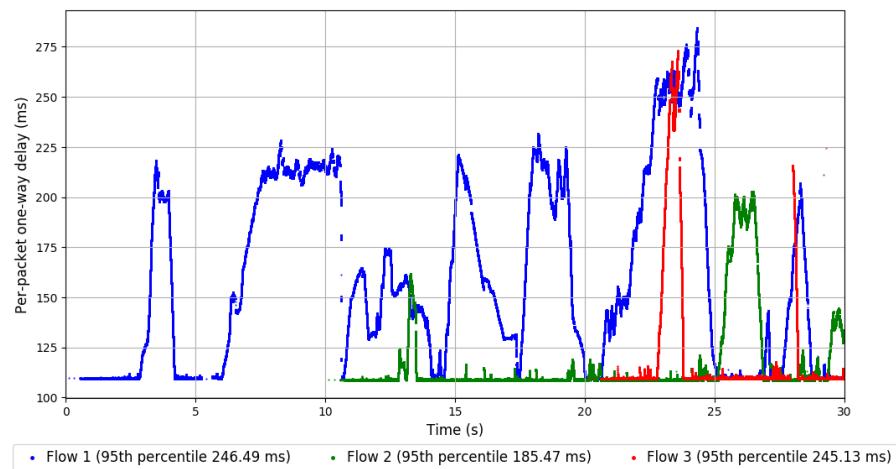
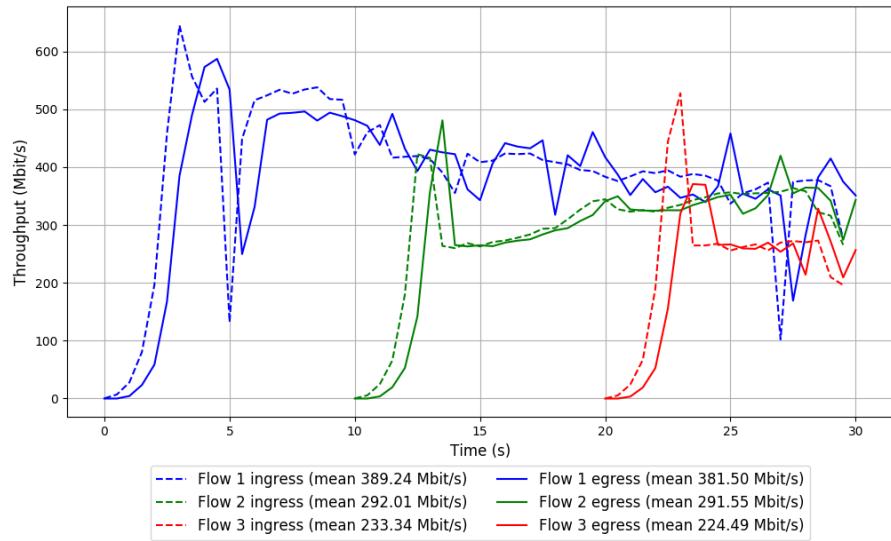


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-21 10:00:35
End at: 2019-01-21 10:01:05
Local clock offset: -0.411 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-01-21 14:28:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 649.14 Mbit/s
95th percentile per-packet one-way delay: 222.597 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 381.50 Mbit/s
95th percentile per-packet one-way delay: 246.485 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 291.55 Mbit/s
95th percentile per-packet one-way delay: 185.470 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 224.49 Mbit/s
95th percentile per-packet one-way delay: 245.134 ms
Loss rate: 3.80%
```

Run 2: Report of PCC-Allegro — Data Link

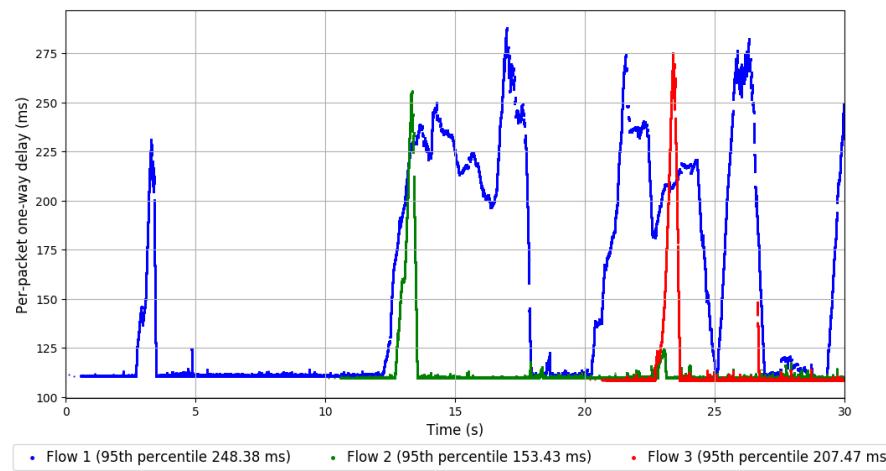
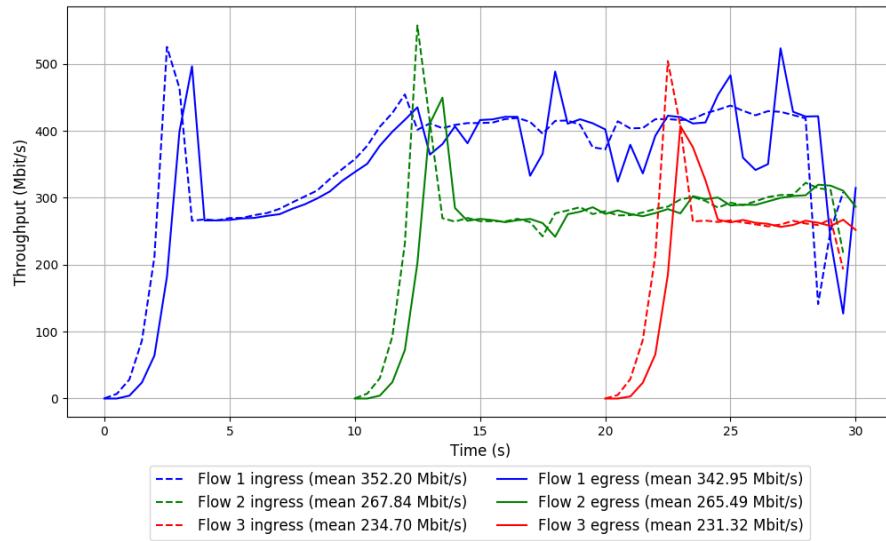


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-21 10:39:57
End at: 2019-01-21 10:40:27
Local clock offset: -0.374 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-01-21 14:28:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 595.29 Mbit/s
95th percentile per-packet one-way delay: 241.356 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 342.95 Mbit/s
95th percentile per-packet one-way delay: 248.377 ms
Loss rate: 2.63%
-- Flow 2:
Average throughput: 265.49 Mbit/s
95th percentile per-packet one-way delay: 153.428 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 231.32 Mbit/s
95th percentile per-packet one-way delay: 207.472 ms
Loss rate: 1.44%
```

Run 3: Report of PCC-Allegro — Data Link

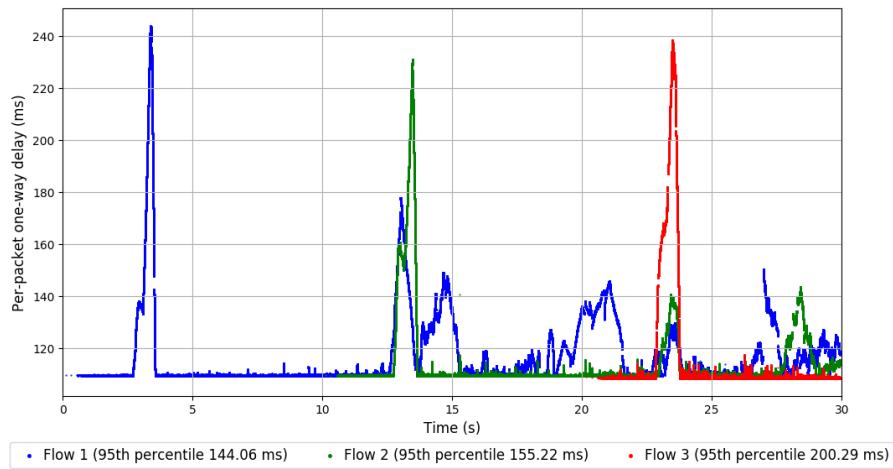
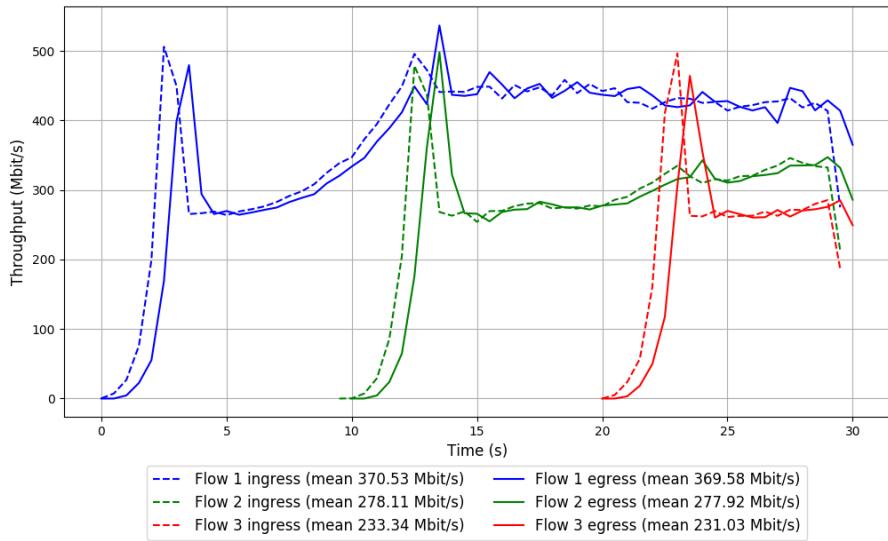


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-21 11:18:06
End at: 2019-01-21 11:18:36
Local clock offset: -0.643 ms
Remote clock offset: -0.36 ms

# Below is generated by plot.py at 2019-01-21 14:37:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 629.96 Mbit/s
95th percentile per-packet one-way delay: 154.322 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 369.58 Mbit/s
95th percentile per-packet one-way delay: 144.062 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 277.92 Mbit/s
95th percentile per-packet one-way delay: 155.225 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 231.03 Mbit/s
95th percentile per-packet one-way delay: 200.286 ms
Loss rate: 1.00%
```

Run 4: Report of PCC-Allegro — Data Link

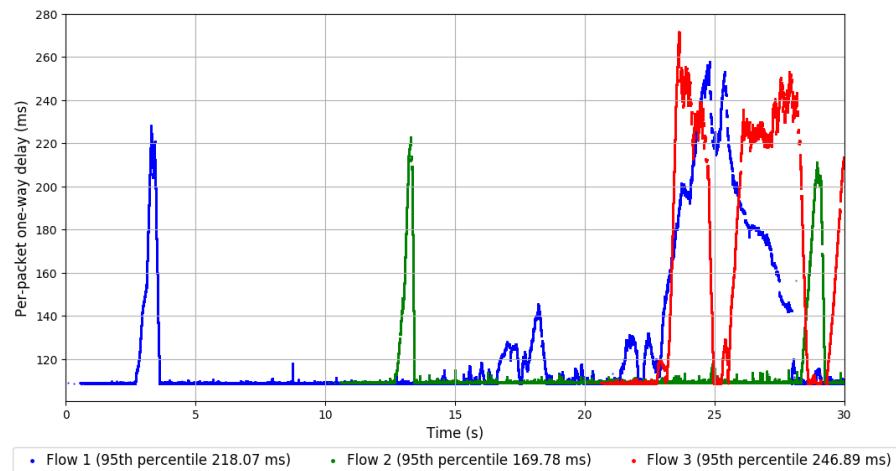
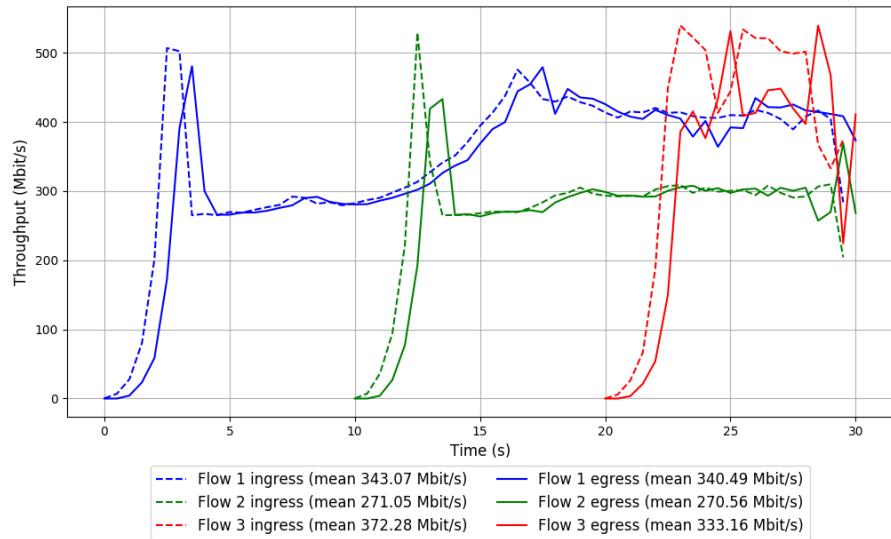


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-21 11:55:50
End at: 2019-01-21 11:56:20
Local clock offset: 0.445 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2019-01-21 14:42:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 629.79 Mbit/s
95th percentile per-packet one-way delay: 230.688 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 340.49 Mbit/s
95th percentile per-packet one-way delay: 218.069 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 270.56 Mbit/s
95th percentile per-packet one-way delay: 169.779 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 333.16 Mbit/s
95th percentile per-packet one-way delay: 246.892 ms
Loss rate: 10.48%
```

Run 5: Report of PCC-Allegro — Data Link

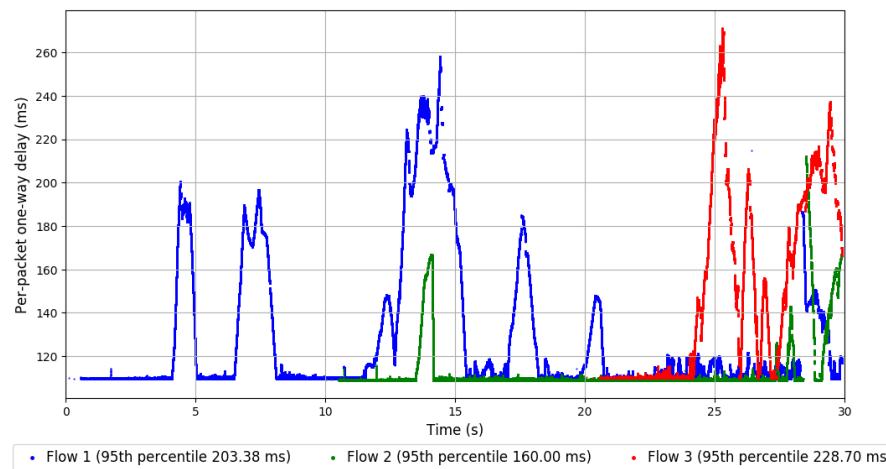
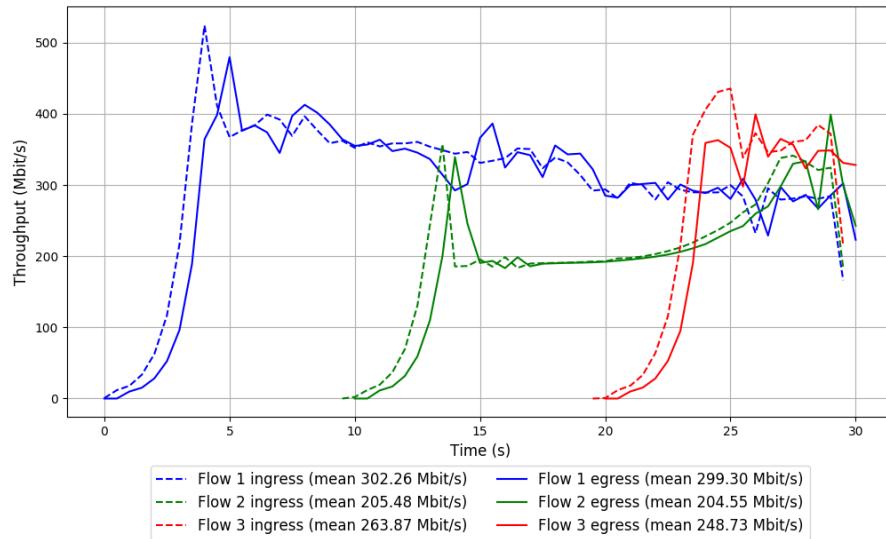


Run 1: Statistics of PCC-Expr

```
Start at: 2019-01-21 09:07:56
End at: 2019-01-21 09:08:26
Local clock offset: -0.749 ms
Remote clock offset: 0.151 ms

# Below is generated by plot.py at 2019-01-21 14:42:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.97 Mbit/s
95th percentile per-packet one-way delay: 207.653 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 299.30 Mbit/s
95th percentile per-packet one-way delay: 203.377 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 204.55 Mbit/s
95th percentile per-packet one-way delay: 159.996 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 248.73 Mbit/s
95th percentile per-packet one-way delay: 228.700 ms
Loss rate: 5.73%
```

Run 1: Report of PCC-Expr — Data Link

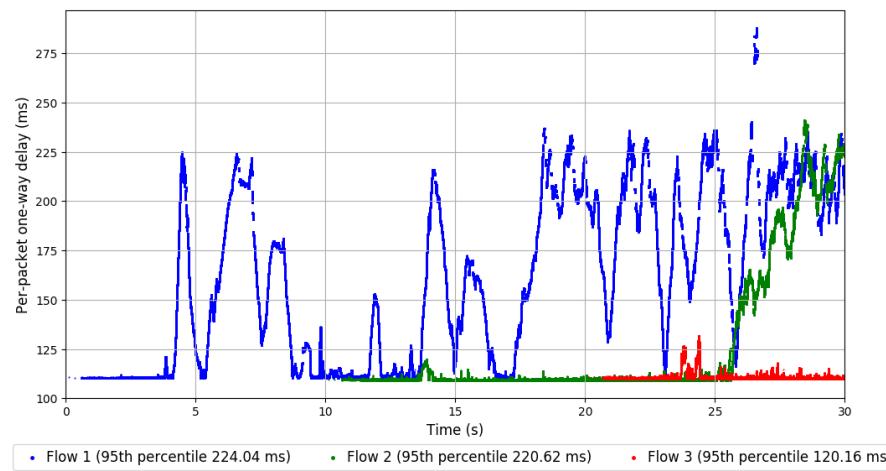
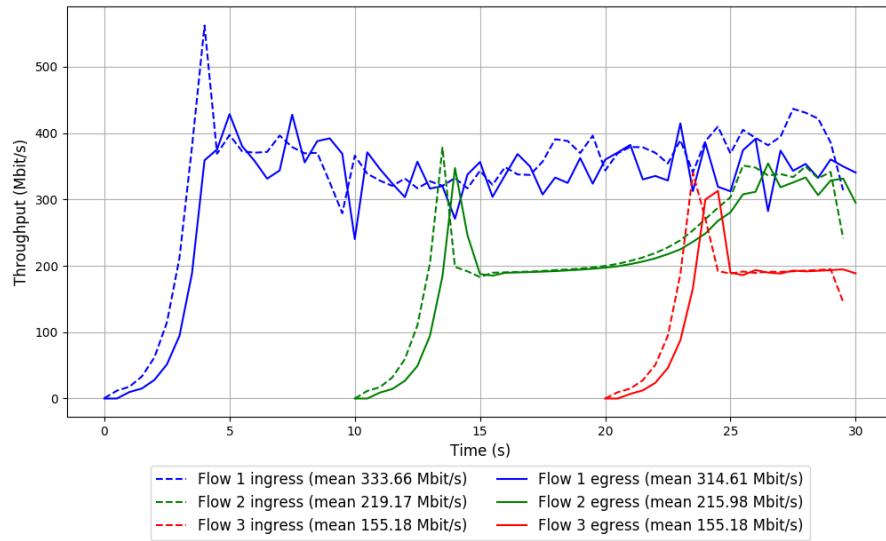


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-21 09:45:38
End at: 2019-01-21 09:46:08
Local clock offset: -0.715 ms
Remote clock offset: 0.15 ms

# Below is generated by plot.py at 2019-01-21 14:42:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 509.40 Mbit/s
95th percentile per-packet one-way delay: 222.509 ms
Loss rate: 4.00%
-- Flow 1:
Average throughput: 314.61 Mbit/s
95th percentile per-packet one-way delay: 224.044 ms
Loss rate: 5.71%
-- Flow 2:
Average throughput: 215.98 Mbit/s
95th percentile per-packet one-way delay: 220.622 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 155.18 Mbit/s
95th percentile per-packet one-way delay: 120.157 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Expr — Data Link

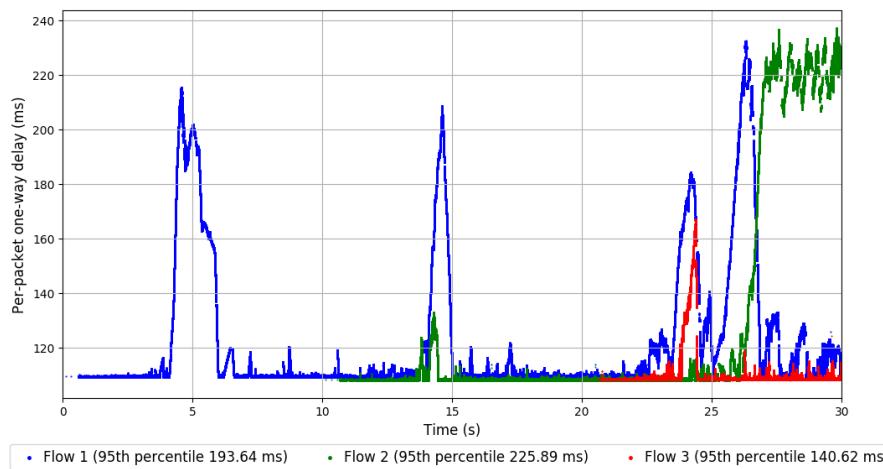
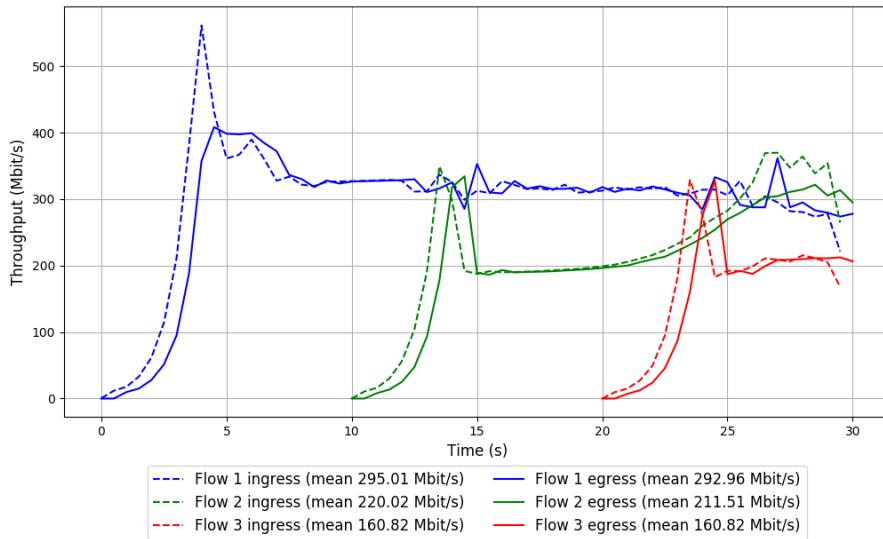


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-21 10:24:42
End at: 2019-01-21 10:25:12
Local clock offset: 0.09 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-01-21 14:42:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 486.69 Mbit/s
95th percentile per-packet one-way delay: 217.534 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 292.96 Mbit/s
95th percentile per-packet one-way delay: 193.636 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 211.51 Mbit/s
95th percentile per-packet one-way delay: 225.887 ms
Loss rate: 3.87%
-- Flow 3:
Average throughput: 160.82 Mbit/s
95th percentile per-packet one-way delay: 140.619 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Expr — Data Link

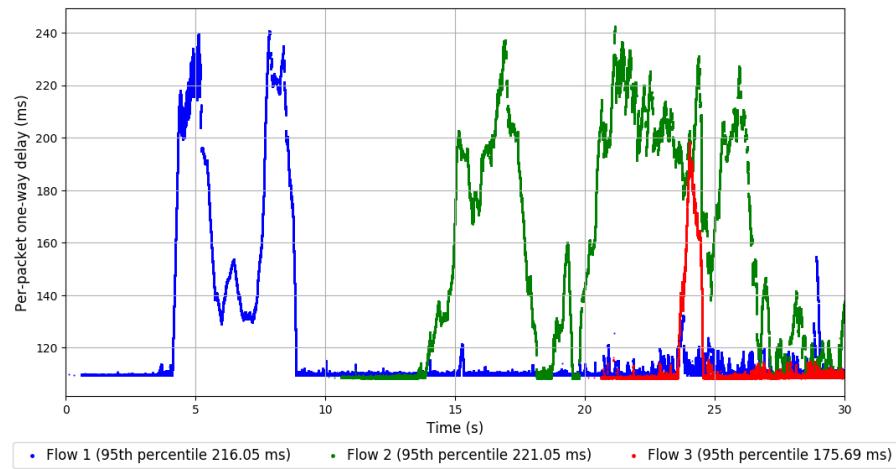
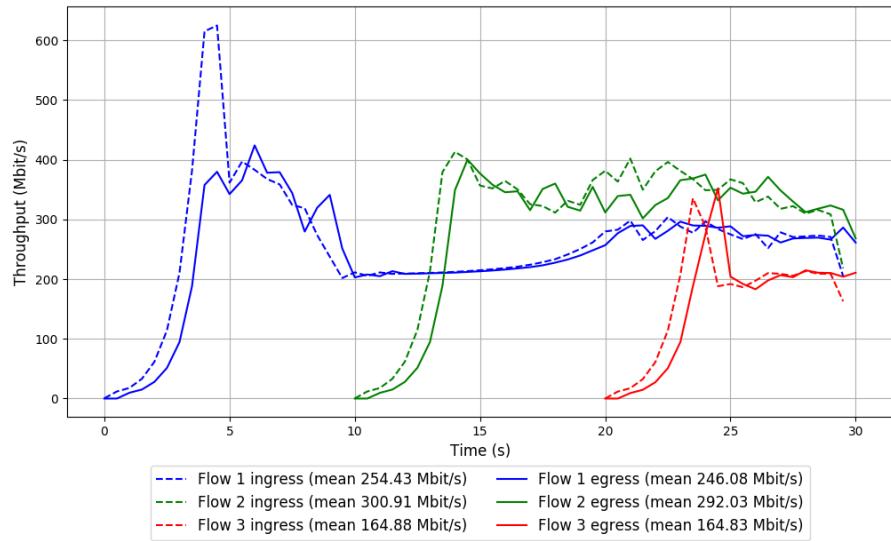


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-21 11:03:20
End at: 2019-01-21 11:03:50
Local clock offset: -0.026 ms
Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2019-01-21 14:51:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 494.65 Mbit/s
95th percentile per-packet one-way delay: 217.889 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 246.08 Mbit/s
95th percentile per-packet one-way delay: 216.046 ms
Loss rate: 3.28%
-- Flow 2:
Average throughput: 292.03 Mbit/s
95th percentile per-packet one-way delay: 221.048 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 164.83 Mbit/s
95th percentile per-packet one-way delay: 175.687 ms
Loss rate: 0.01%
```

Run 4: Report of PCC-Expr — Data Link

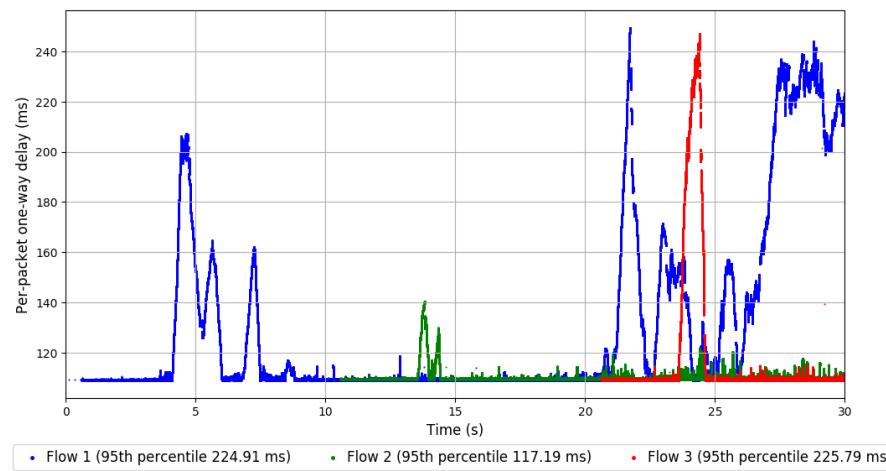
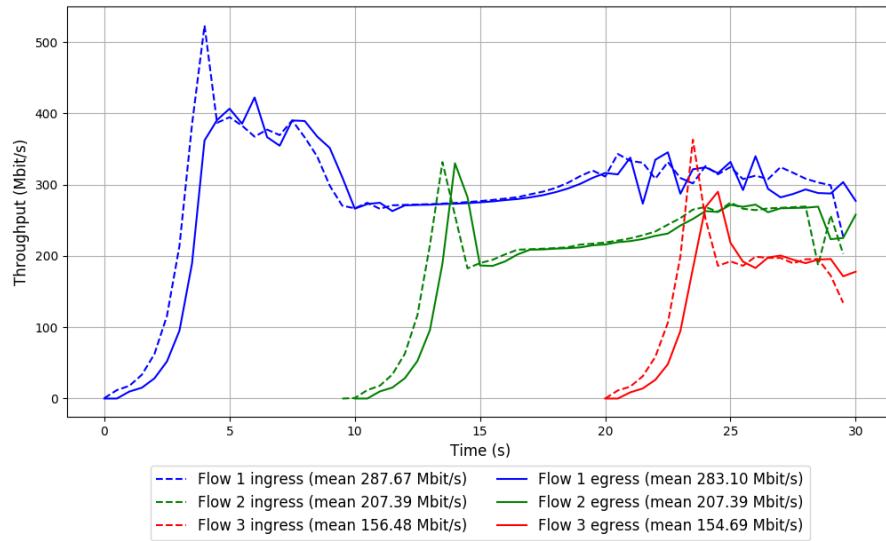


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-21 11:40:49
End at: 2019-01-21 11:41:19
Local clock offset: 0.053 ms
Remote clock offset: 0.269 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 472.14 Mbit/s
95th percentile per-packet one-way delay: 218.934 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 283.10 Mbit/s
95th percentile per-packet one-way delay: 224.907 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 207.39 Mbit/s
95th percentile per-packet one-way delay: 117.194 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 154.69 Mbit/s
95th percentile per-packet one-way delay: 225.794 ms
Loss rate: 1.14%
```

Run 5: Report of PCC-Expr — Data Link

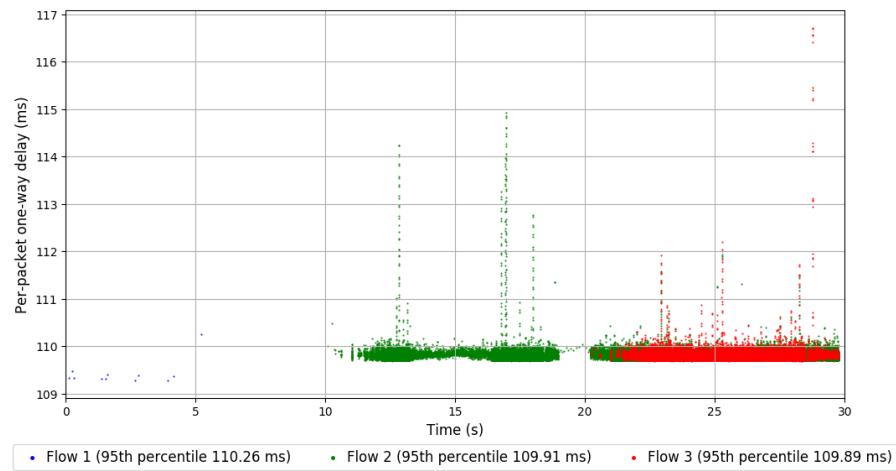
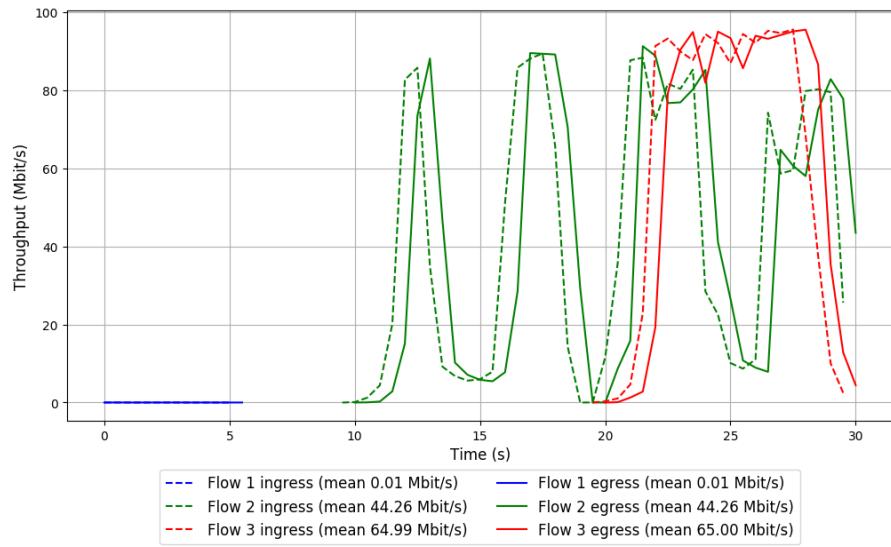


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-01-21 09:29:05
End at: 2019-01-21 09:29:35
Local clock offset: -0.714 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.51 Mbit/s
95th percentile per-packet one-way delay: 109.901 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 110.260 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.26 Mbit/s
95th percentile per-packet one-way delay: 109.909 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.00 Mbit/s
95th percentile per-packet one-way delay: 109.888 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

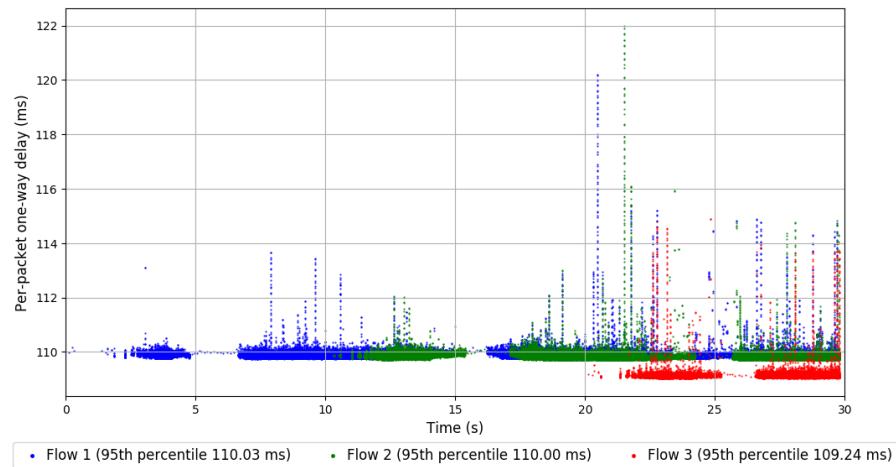
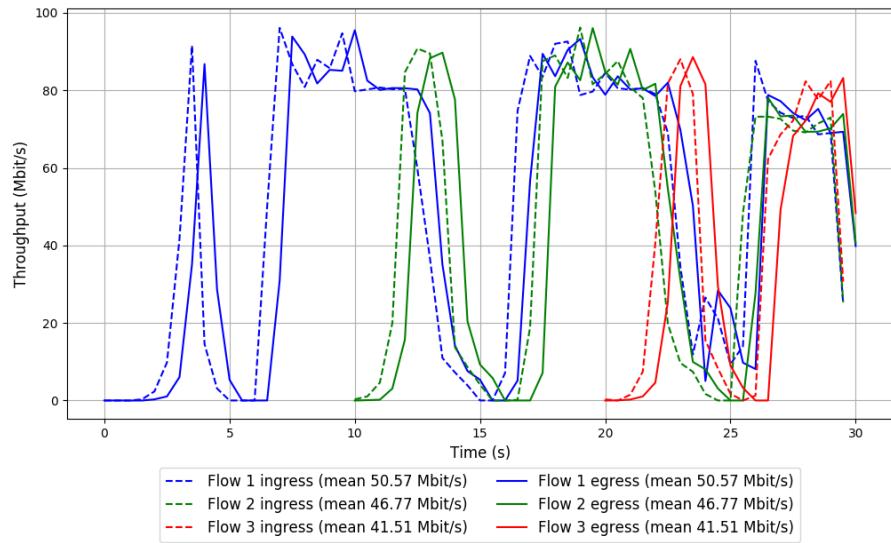


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-21 10:07:28
End at: 2019-01-21 10:07:58
Local clock offset: -0.746 ms
Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 110.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.57 Mbit/s
95th percentile per-packet one-way delay: 110.030 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.77 Mbit/s
95th percentile per-packet one-way delay: 109.997 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 41.51 Mbit/s
95th percentile per-packet one-way delay: 109.238 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

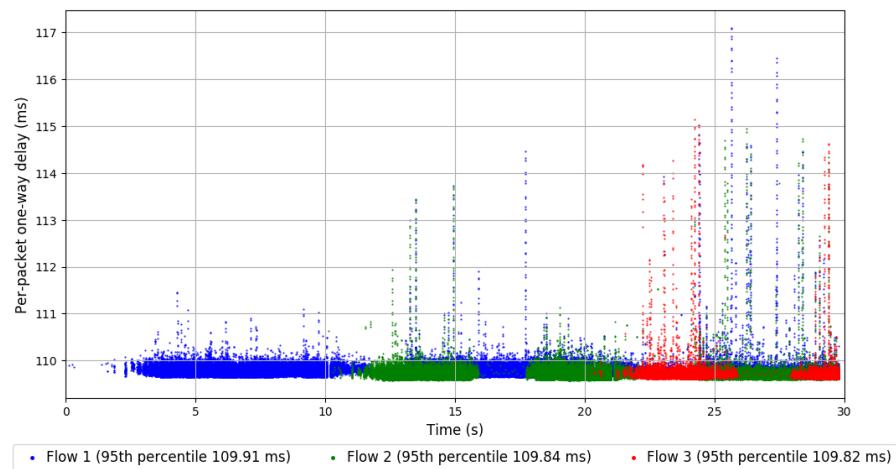
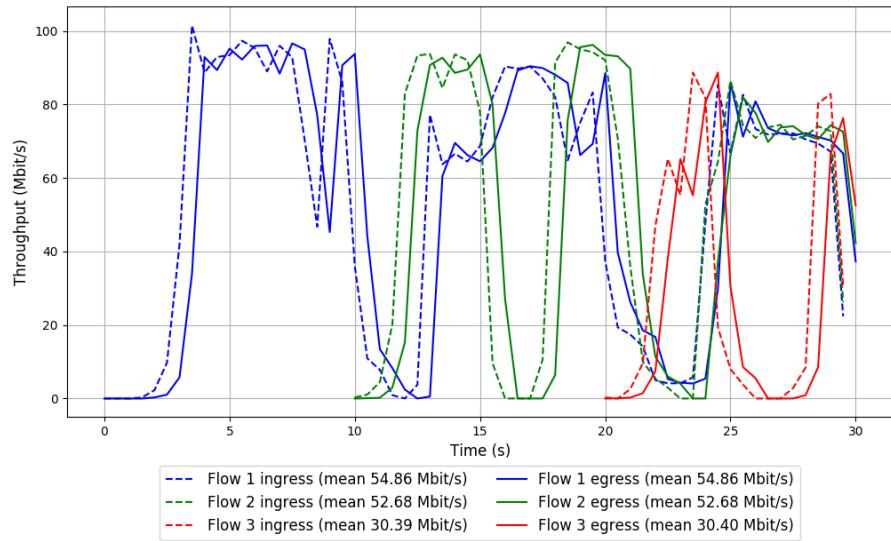


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-21 10:46:31
End at: 2019-01-21 10:47:01
Local clock offset: -0.324 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.65 Mbit/s
95th percentile per-packet one-way delay: 109.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.86 Mbit/s
95th percentile per-packet one-way delay: 109.914 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.68 Mbit/s
95th percentile per-packet one-way delay: 109.839 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 109.821 ms
Loss rate: 0.01%
```

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

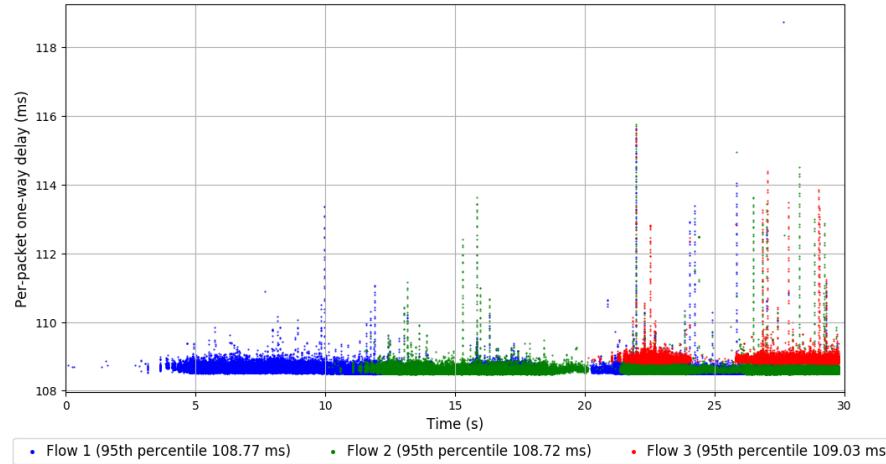
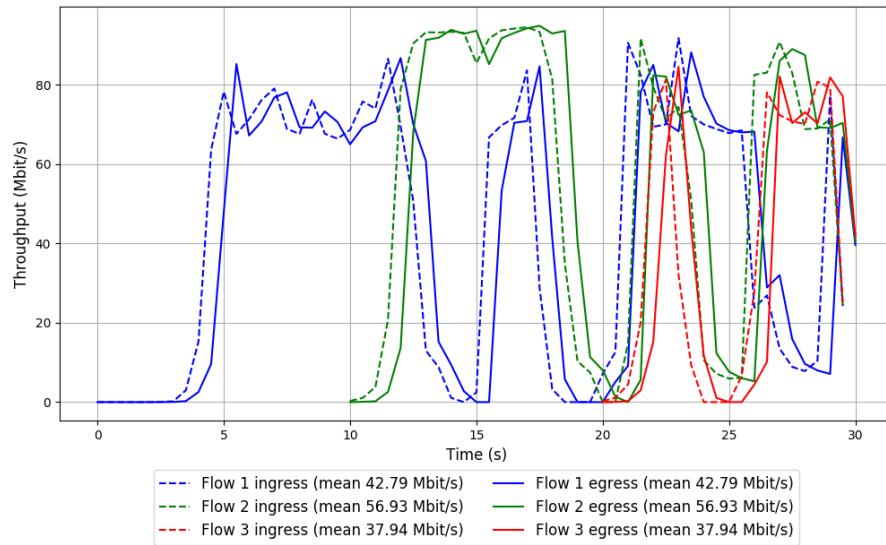


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-21 11:24:26
End at: 2019-01-21 11:24:56
Local clock offset: 0.353 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 108.912 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.79 Mbit/s
95th percentile per-packet one-way delay: 108.770 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 108.721 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.94 Mbit/s
95th percentile per-packet one-way delay: 109.035 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

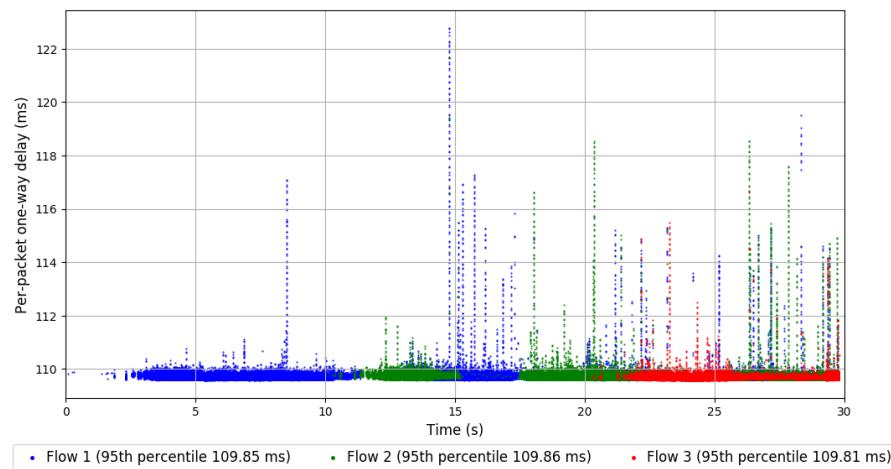
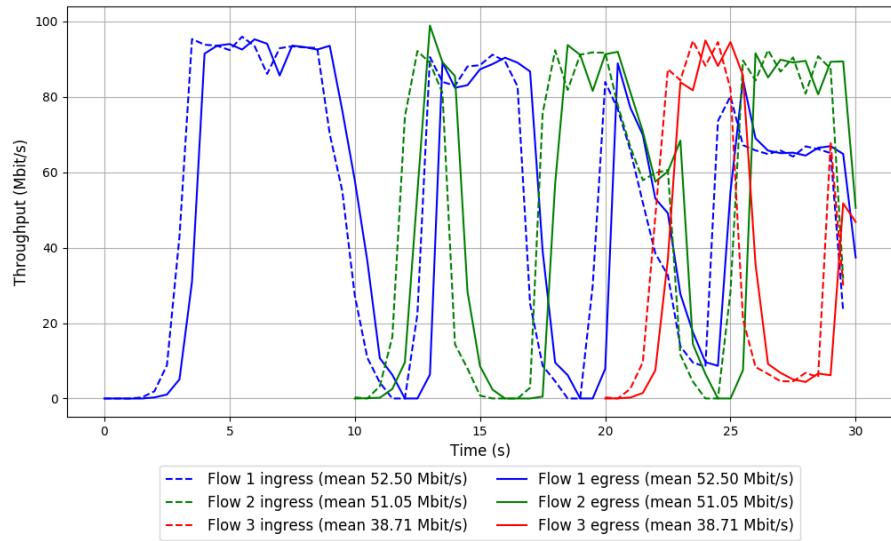


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-21 12:02:22
End at: 2019-01-21 12:02:52
Local clock offset: -0.833 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.92 Mbit/s
95th percentile per-packet one-way delay: 109.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.50 Mbit/s
95th percentile per-packet one-way delay: 109.851 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.05 Mbit/s
95th percentile per-packet one-way delay: 109.864 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 109.809 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

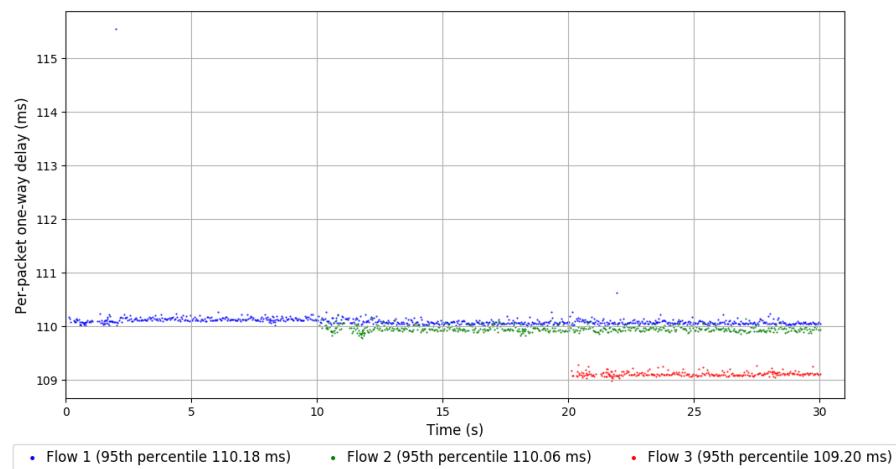
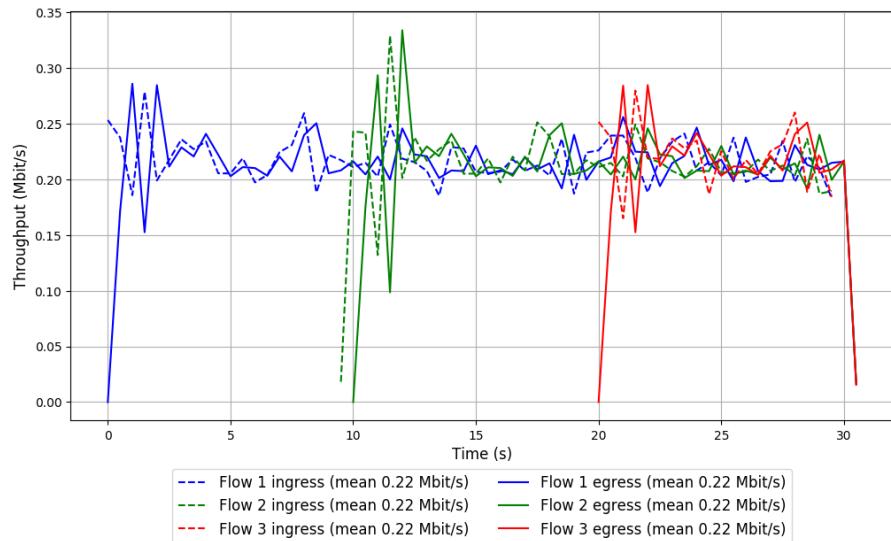


```
Run 1: Statistics of SCReAM

Start at: 2019-01-21 09:27:49
End at: 2019-01-21 09:28:19
Local clock offset: -0.722 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 110.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.183 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.057 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.202 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

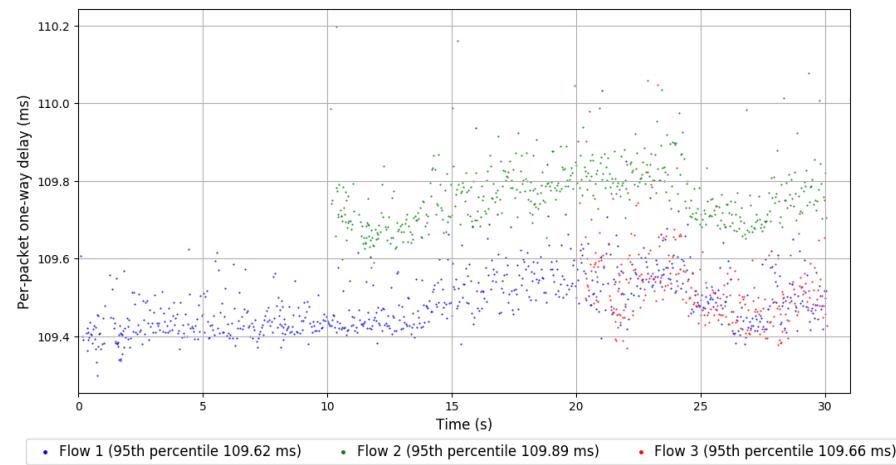
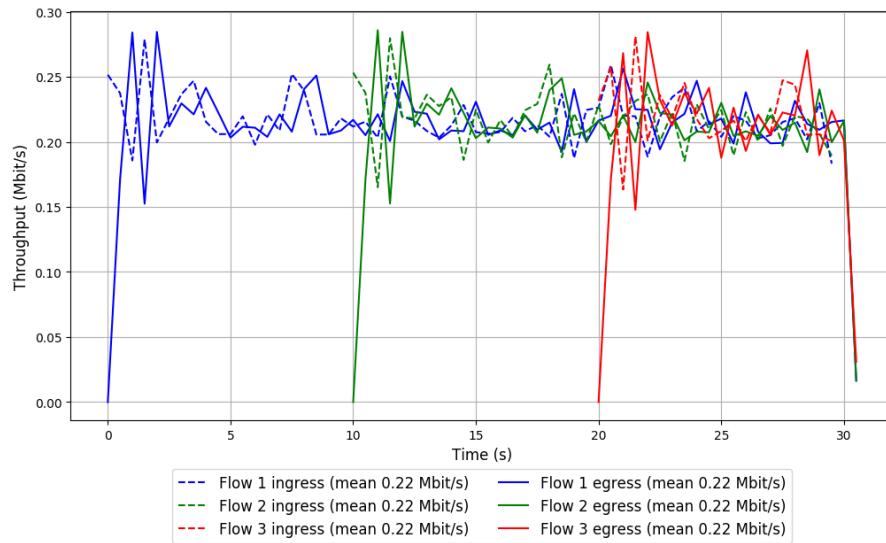


Run 2: Statistics of SCReAM

```
Start at: 2019-01-21 10:06:12
End at: 2019-01-21 10:06:42
Local clock offset: -0.933 ms
Remote clock offset: 0.202 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.619 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.895 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.664 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

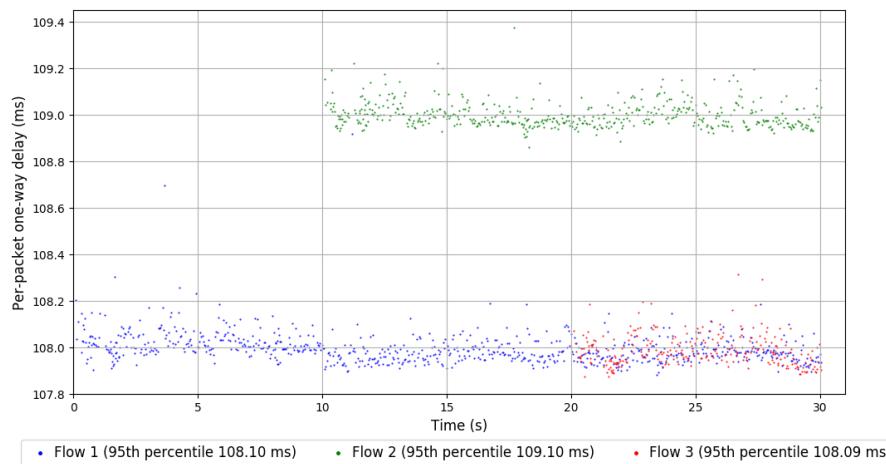
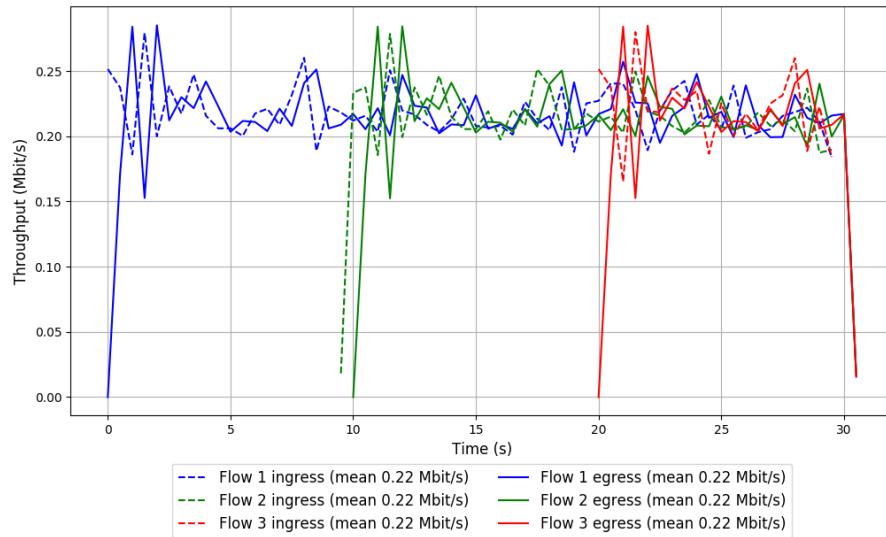


Run 3: Statistics of SCReAM

```
Start at: 2019-01-21 10:45:15
End at: 2019-01-21 10:45:45
Local clock offset: 0.45 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.098 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.099 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.094 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

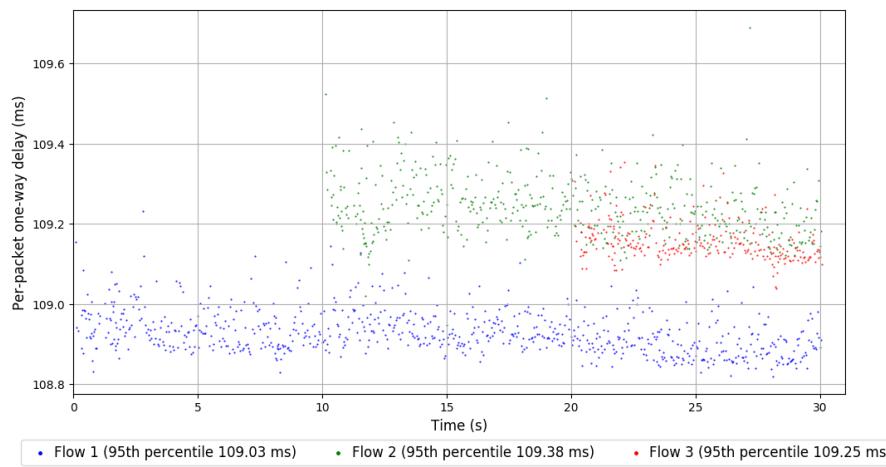
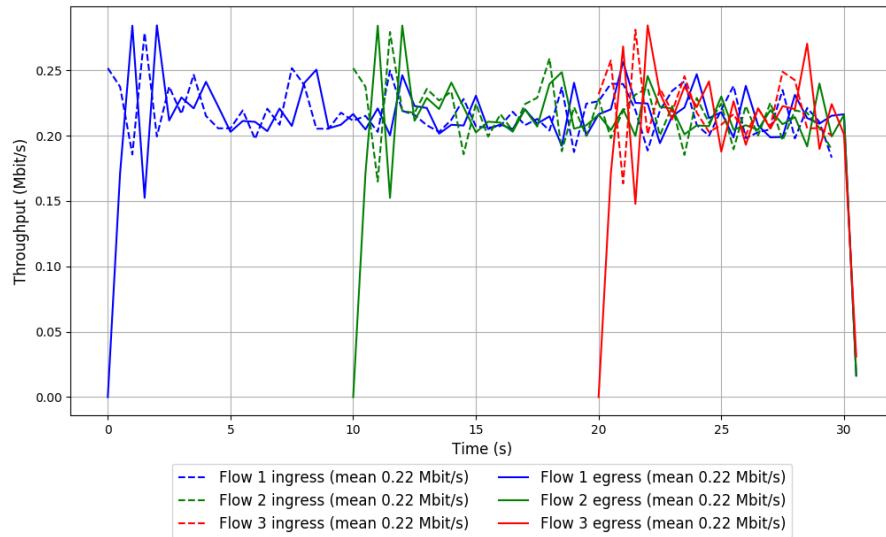


Run 4: Statistics of SCReAM

```
Start at: 2019-01-21 11:23:10
End at: 2019-01-21 11:23:40
Local clock offset: 0.068 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.034 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.384 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.252 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

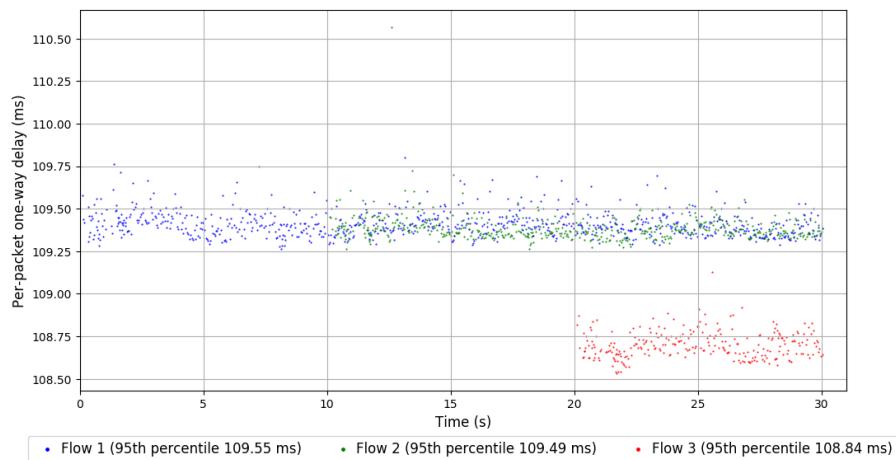
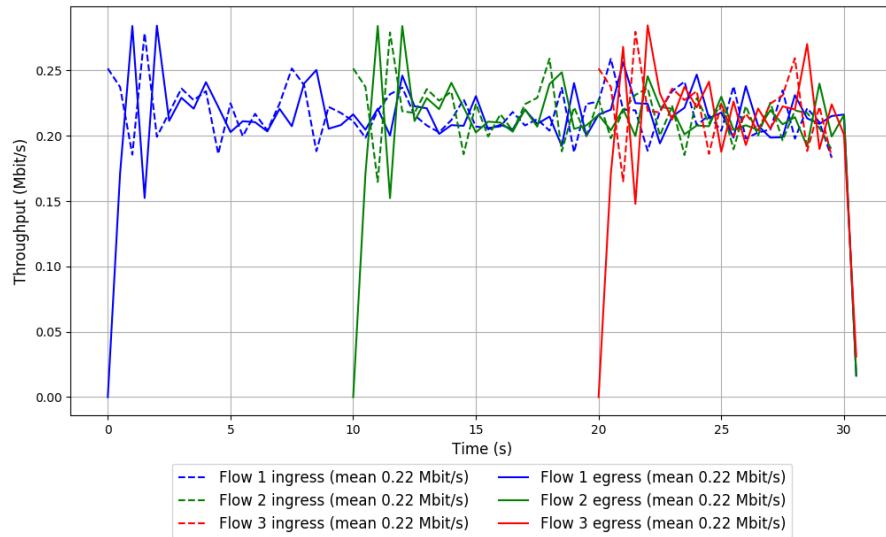


Run 5: Statistics of SCReAM

```
Start at: 2019-01-21 12:01:06
End at: 2019-01-21 12:01:36
Local clock offset: -0.096 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.515 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.545 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.490 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.836 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

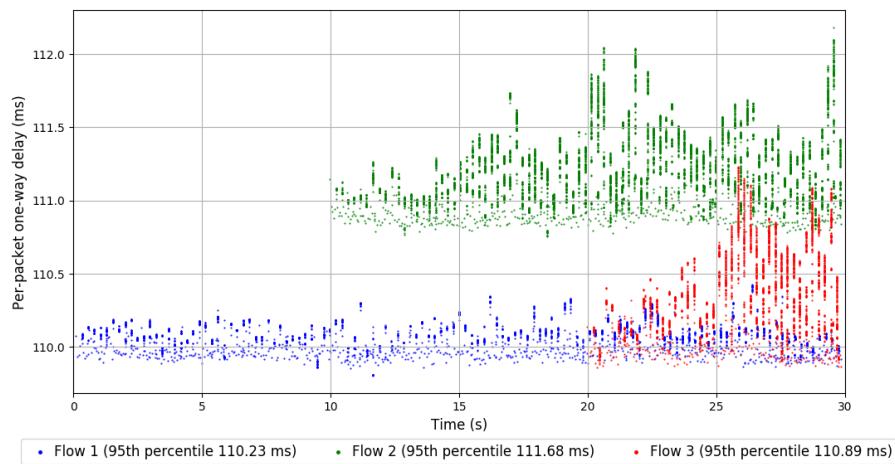
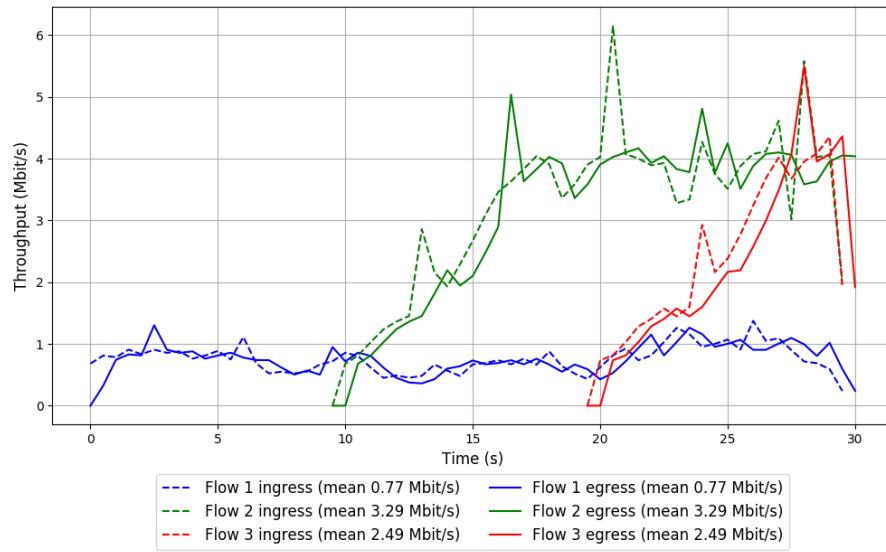


Run 1: Statistics of Sprout

```
Start at: 2019-01-21 09:26:32
End at: 2019-01-21 09:27:02
Local clock offset: -1.306 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 111.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 110.226 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 111.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 110.894 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

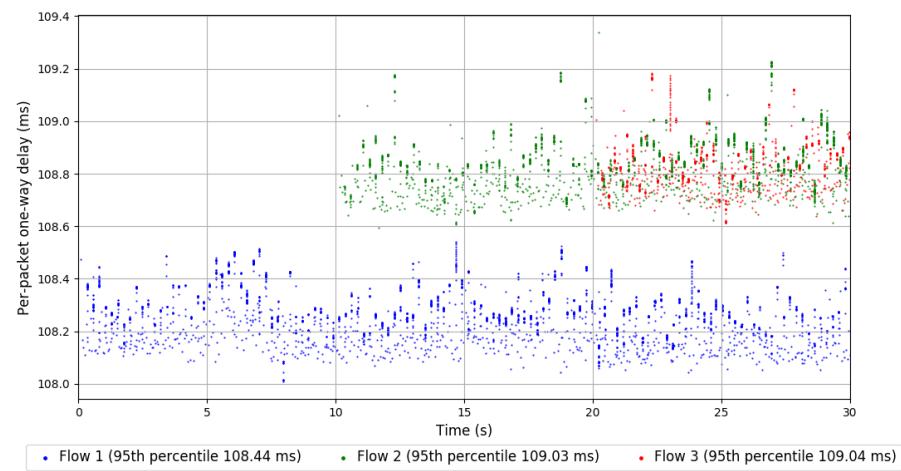
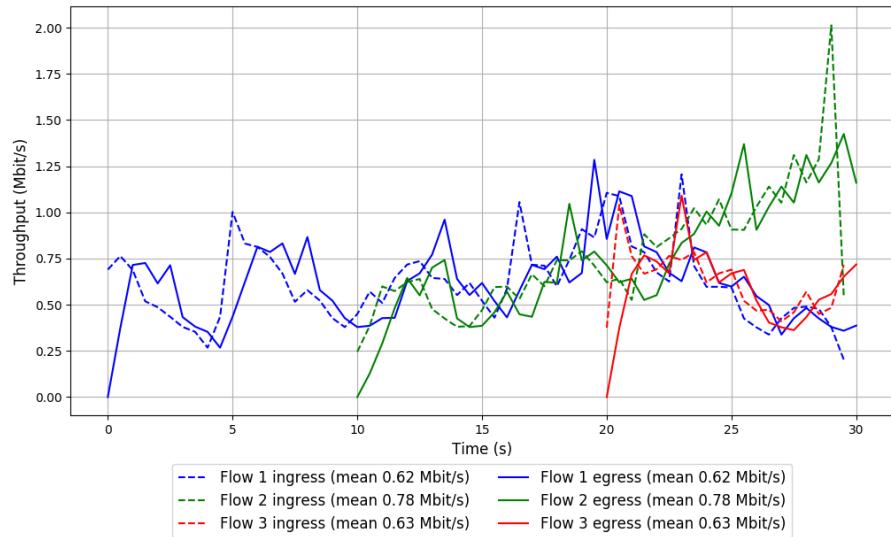


Run 2: Statistics of Sprout

```
Start at: 2019-01-21 10:04:55
End at: 2019-01-21 10:05:25
Local clock offset: 0.424 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 108.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 108.444 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 109.025 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 109.040 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link

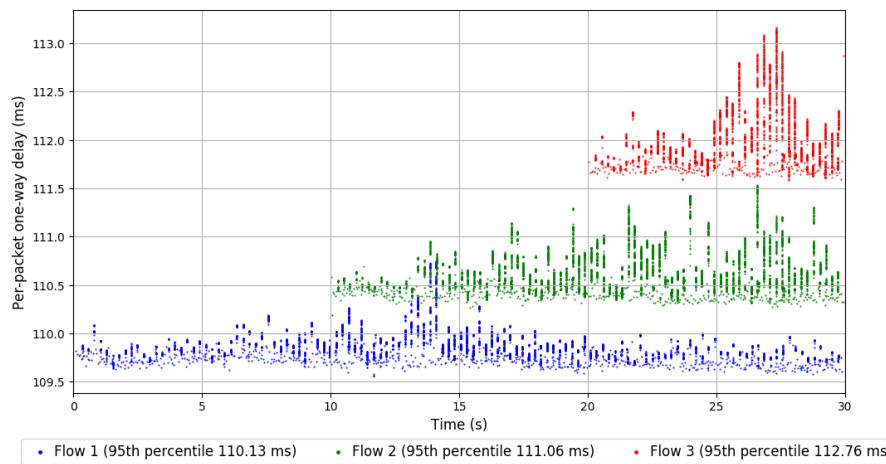
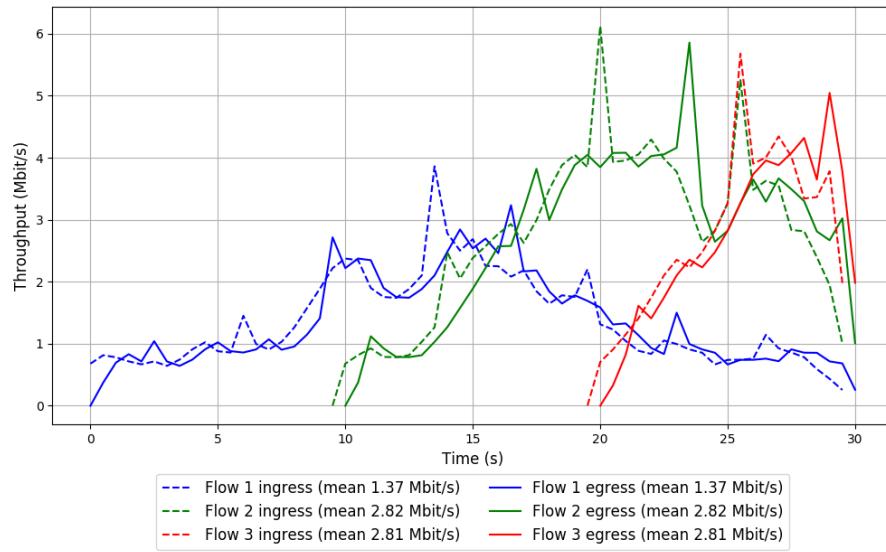


Run 3: Statistics of Sprout

```
Start at: 2019-01-21 10:43:57
End at: 2019-01-21 10:44:27
Local clock offset: -1.229 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 112.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 110.134 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 111.059 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 112.759 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

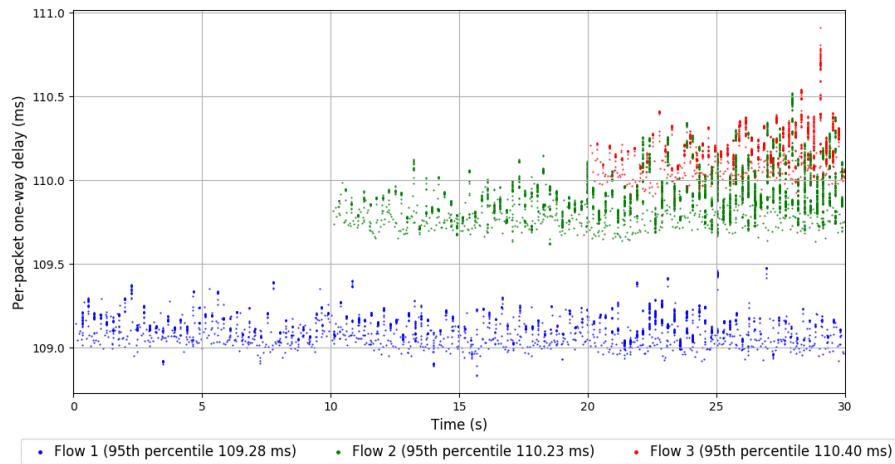
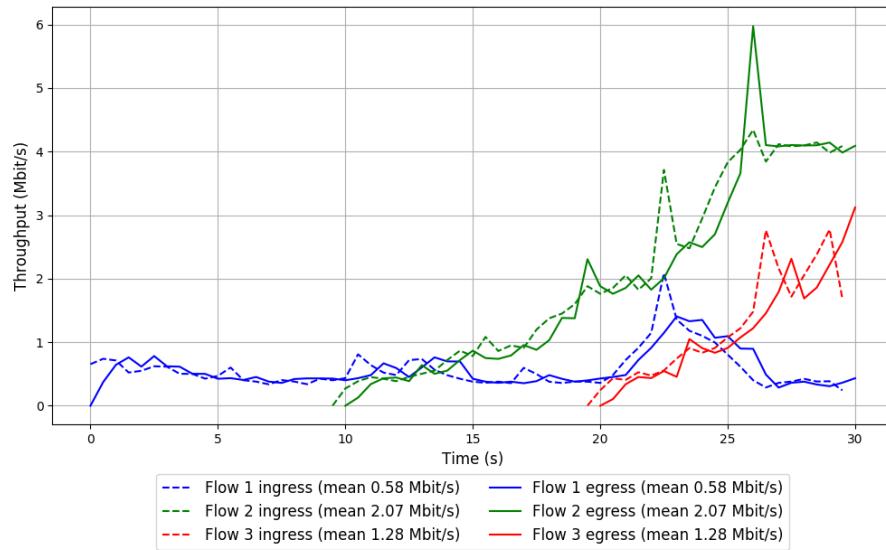


Run 4: Statistics of Sprout

```
Start at: 2019-01-21 11:21:52
End at: 2019-01-21 11:22:22
Local clock offset: -0.667 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 110.303 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 109.285 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 110.230 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 110.399 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

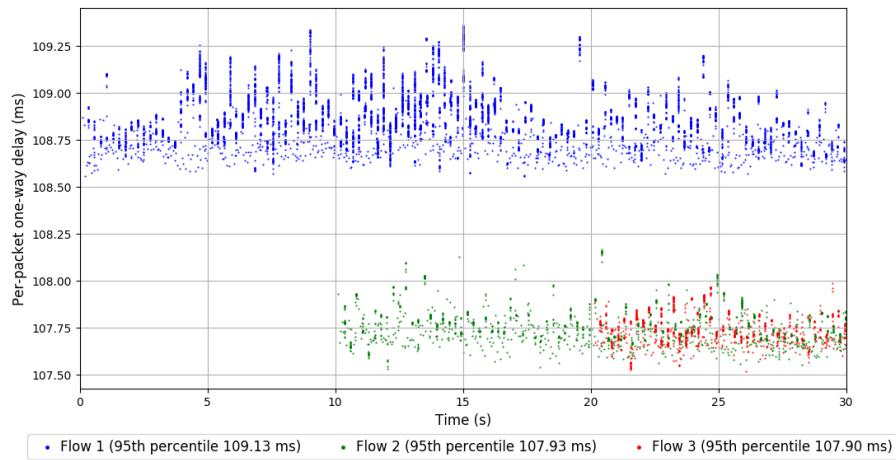
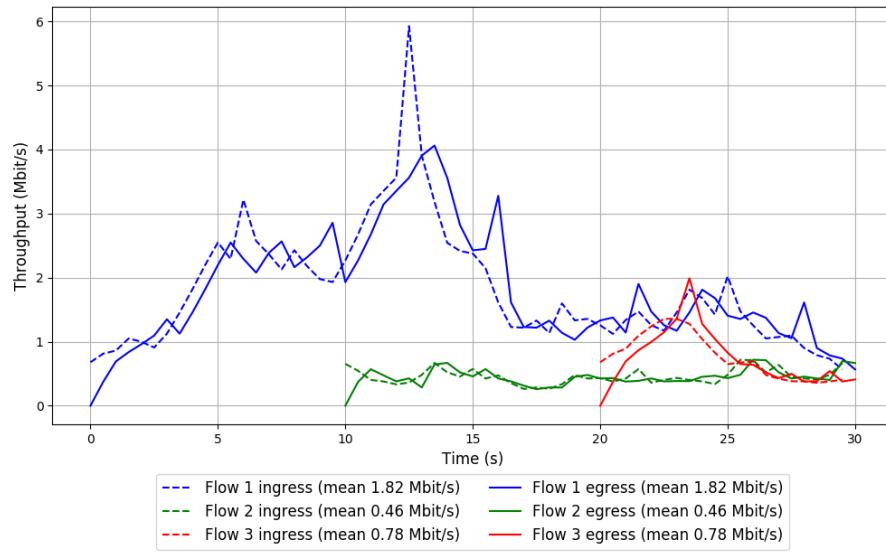


Run 5: Statistics of Sprout

```
Start at: 2019-01-21 11:59:49
End at: 2019-01-21 12:00:19
Local clock offset: 0.601 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-01-21 14:51:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 109.101 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 109.129 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 107.932 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 107.903 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

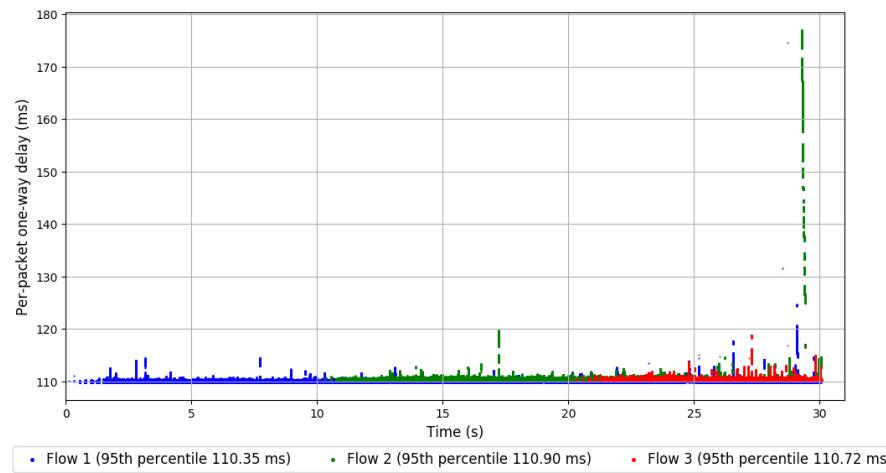
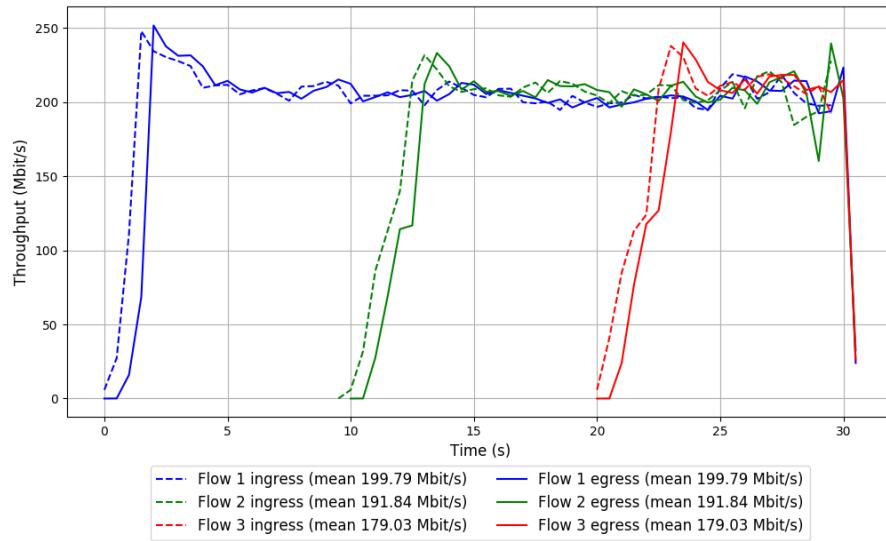


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-21 09:17:12
End at: 2019-01-21 09:17:43
Local clock offset: -0.817 ms
Remote clock offset: 0.268 ms

# Below is generated by plot.py at 2019-01-21 14:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 387.08 Mbit/s
95th percentile per-packet one-way delay: 110.679 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.79 Mbit/s
95th percentile per-packet one-way delay: 110.354 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 191.84 Mbit/s
95th percentile per-packet one-way delay: 110.899 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 179.03 Mbit/s
95th percentile per-packet one-way delay: 110.716 ms
Loss rate: 0.00%
```

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

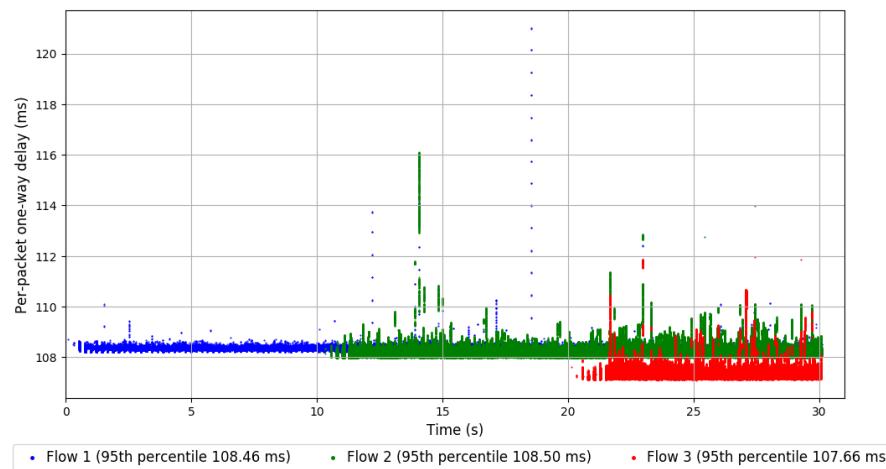
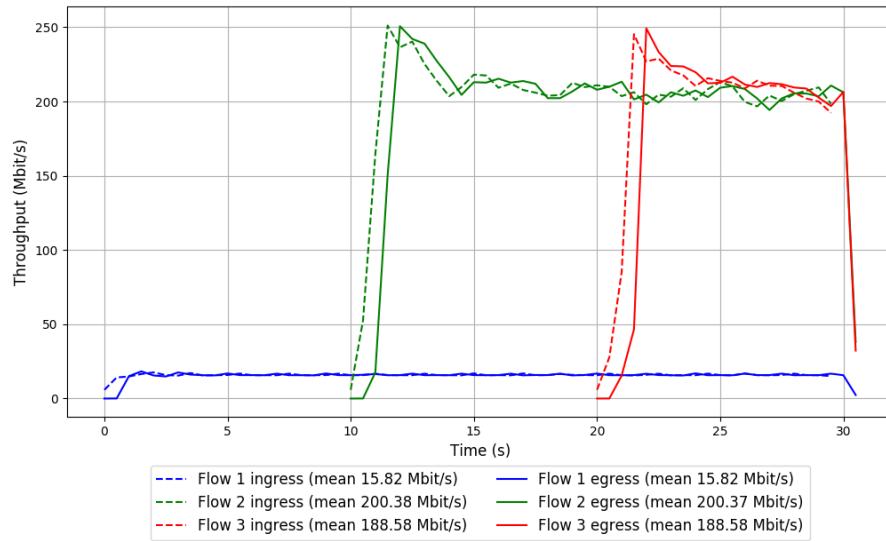


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-21 09:55:13
End at: 2019-01-21 09:55:43
Local clock offset: 1.177 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-01-21 14:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 211.92 Mbit/s
95th percentile per-packet one-way delay: 108.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 108.461 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.37 Mbit/s
95th percentile per-packet one-way delay: 108.500 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 188.58 Mbit/s
95th percentile per-packet one-way delay: 107.663 ms
Loss rate: 0.00%
```

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

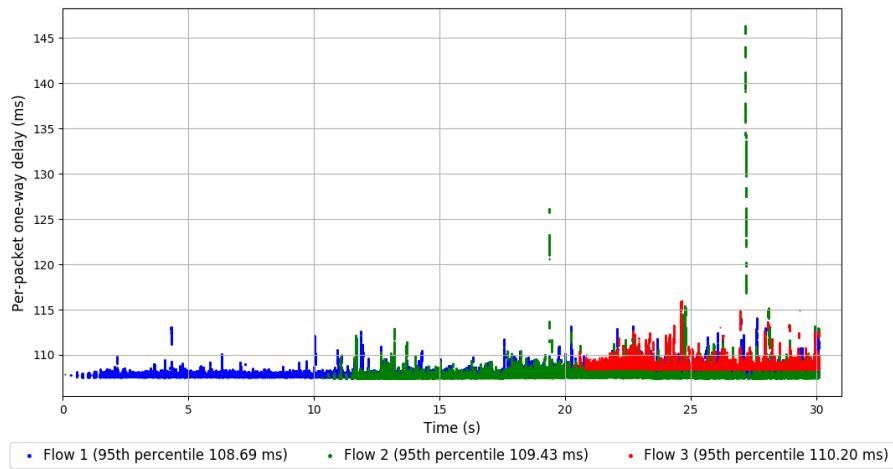
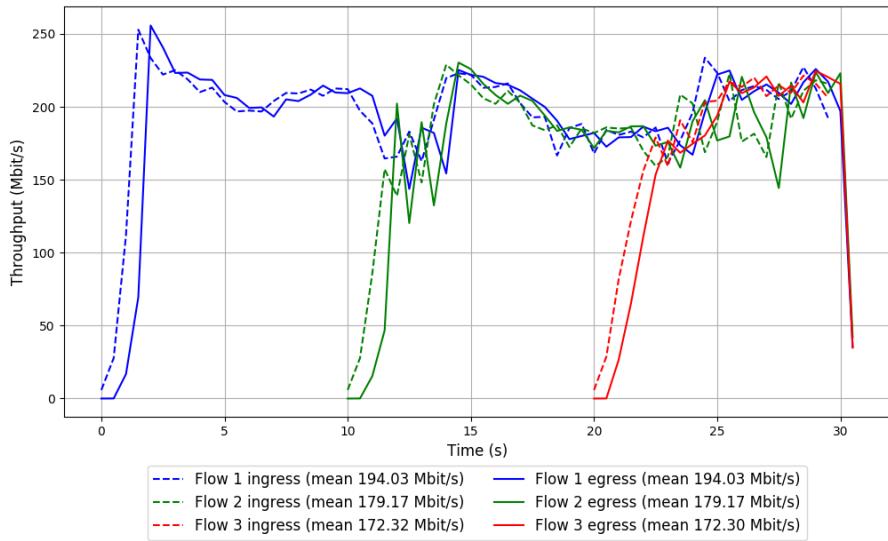


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-21 10:34:36
End at: 2019-01-21 10:35:06
Local clock offset: 0.731 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-01-21 14:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 370.56 Mbit/s
95th percentile per-packet one-way delay: 109.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.03 Mbit/s
95th percentile per-packet one-way delay: 108.688 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 179.17 Mbit/s
95th percentile per-packet one-way delay: 109.426 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 172.30 Mbit/s
95th percentile per-packet one-way delay: 110.200 ms
Loss rate: 0.01%
```

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

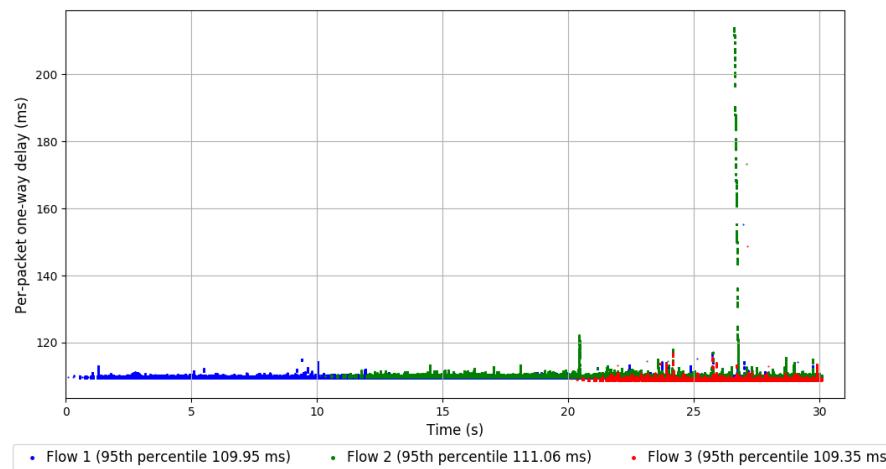
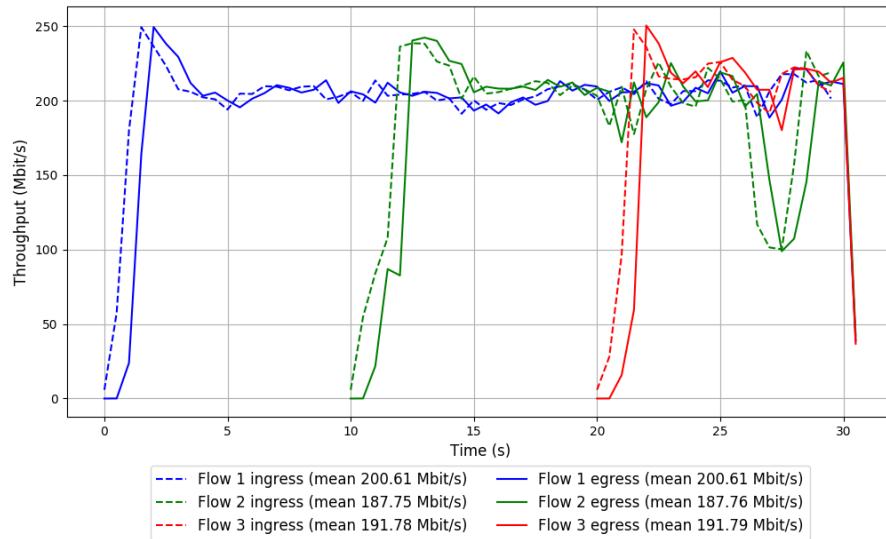


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-21 11:12:35
End at: 2019-01-21 11:13:05
Local clock offset: -0.747 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2019-01-21 14:57:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.33 Mbit/s
95th percentile per-packet one-way delay: 110.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.61 Mbit/s
95th percentile per-packet one-way delay: 109.952 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 187.76 Mbit/s
95th percentile per-packet one-way delay: 111.064 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 191.79 Mbit/s
95th percentile per-packet one-way delay: 109.354 ms
Loss rate: 0.00%
```

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

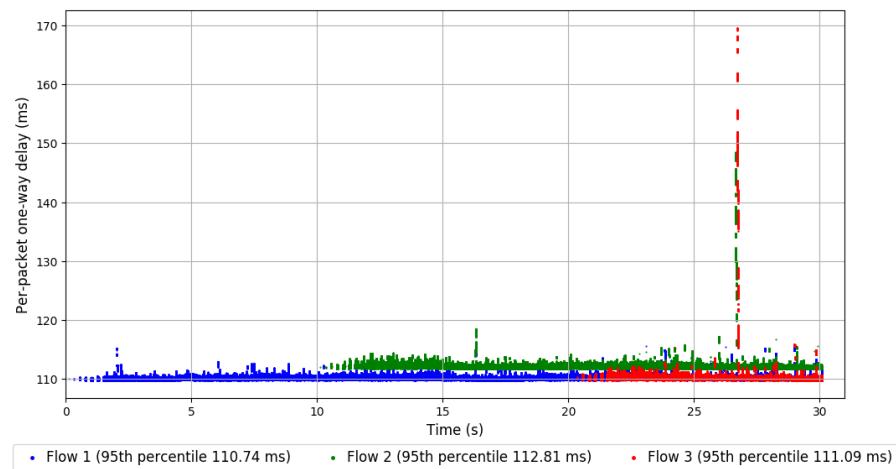
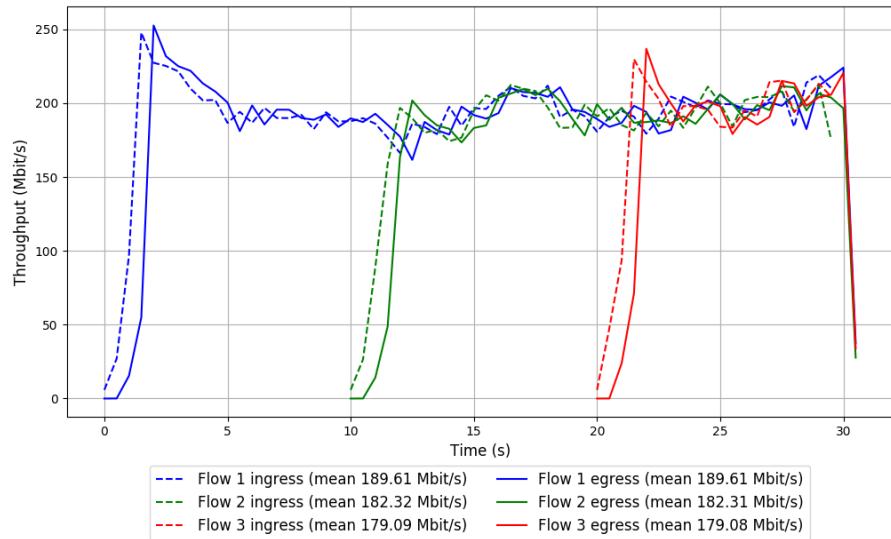


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-21 11:50:02
End at: 2019-01-21 11:50:32
Local clock offset: -0.207 ms
Remote clock offset: 0.304 ms

# Below is generated by plot.py at 2019-01-21 14:57:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 370.54 Mbit/s
95th percentile per-packet one-way delay: 112.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.61 Mbit/s
95th percentile per-packet one-way delay: 110.738 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 182.31 Mbit/s
95th percentile per-packet one-way delay: 112.811 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 179.08 Mbit/s
95th percentile per-packet one-way delay: 111.095 ms
Loss rate: 0.00%
```

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

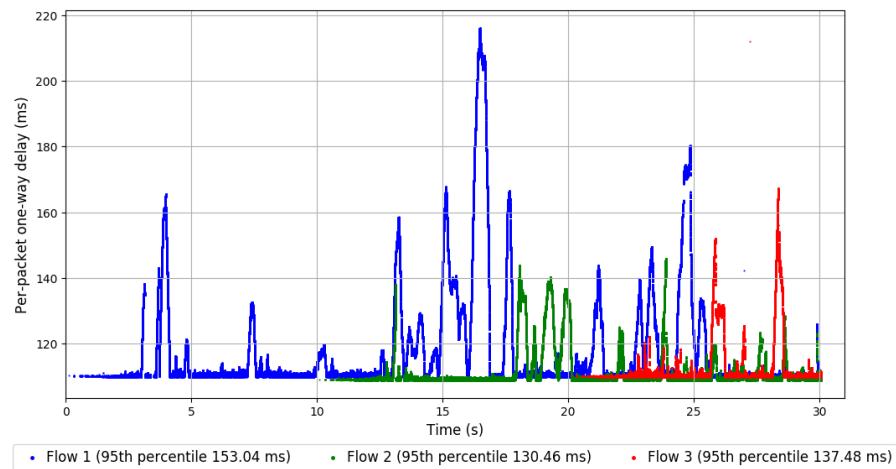
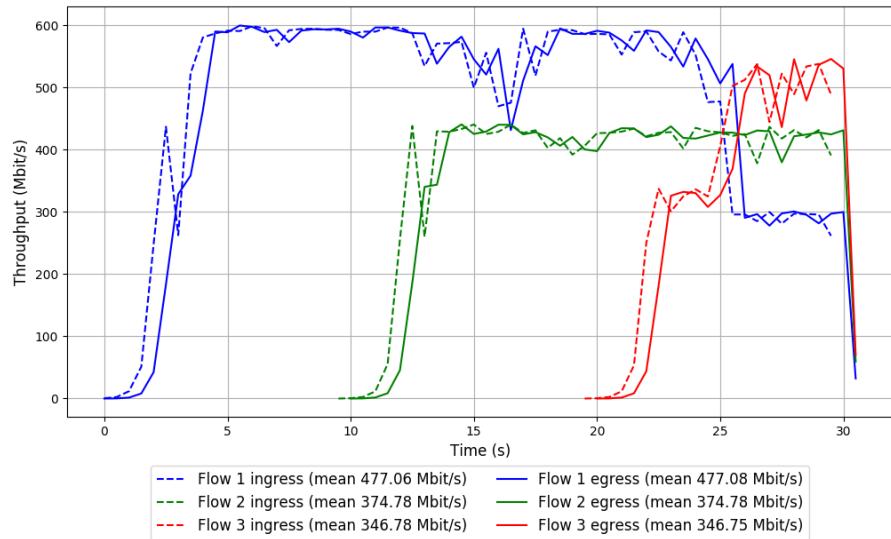


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-21 08:56:58
End at: 2019-01-21 08:57:28
Local clock offset: -0.27 ms
Remote clock offset: 0.618 ms

# Below is generated by plot.py at 2019-01-21 15:03:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 842.27 Mbit/s
95th percentile per-packet one-way delay: 141.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 477.08 Mbit/s
95th percentile per-packet one-way delay: 153.042 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 374.78 Mbit/s
95th percentile per-packet one-way delay: 130.461 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 346.75 Mbit/s
95th percentile per-packet one-way delay: 137.482 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

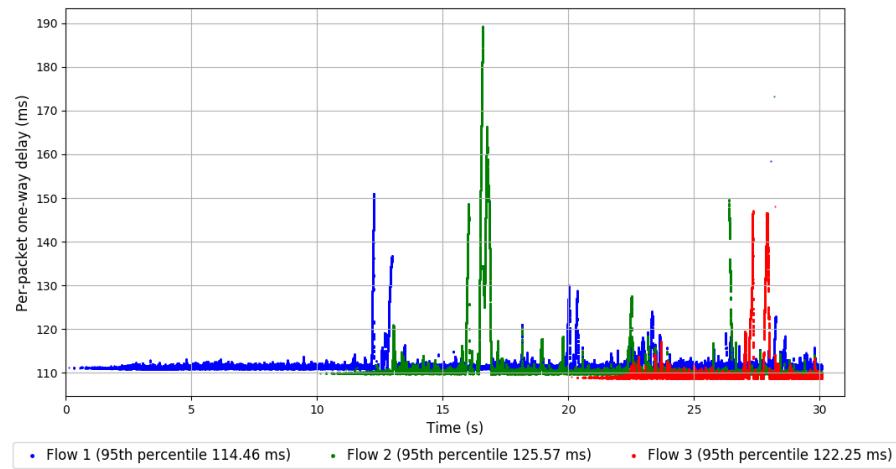
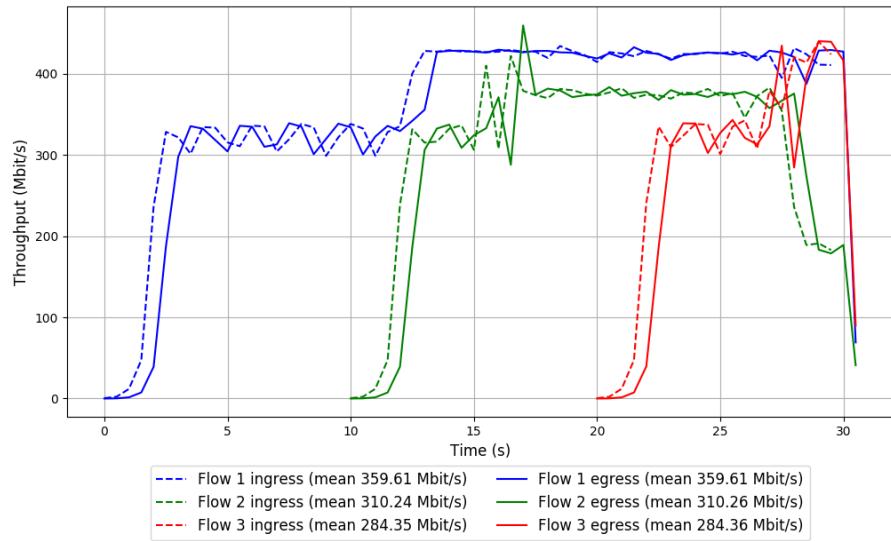


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-21 09:34:24
End at: 2019-01-21 09:34:54
Local clock offset: 0.08 ms
Remote clock offset: 0.525 ms

# Below is generated by plot.py at 2019-01-21 15:04:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 660.75 Mbit/s
95th percentile per-packet one-way delay: 116.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.61 Mbit/s
95th percentile per-packet one-way delay: 114.458 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 310.26 Mbit/s
95th percentile per-packet one-way delay: 125.574 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 284.36 Mbit/s
95th percentile per-packet one-way delay: 122.253 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

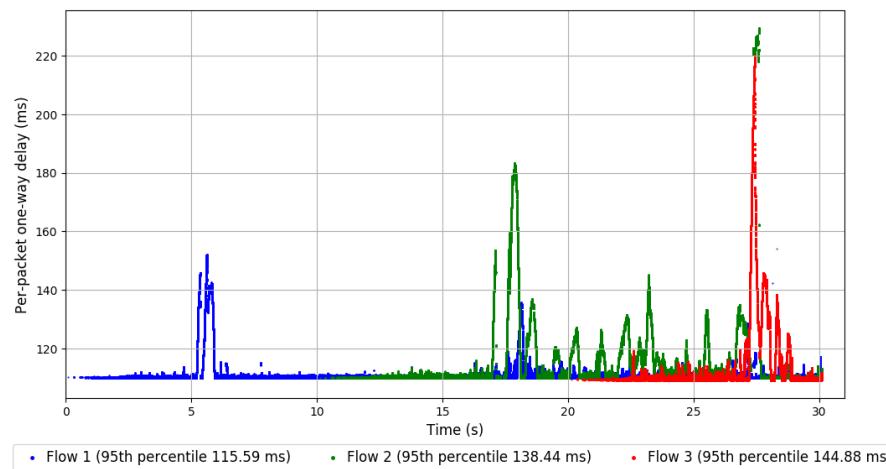
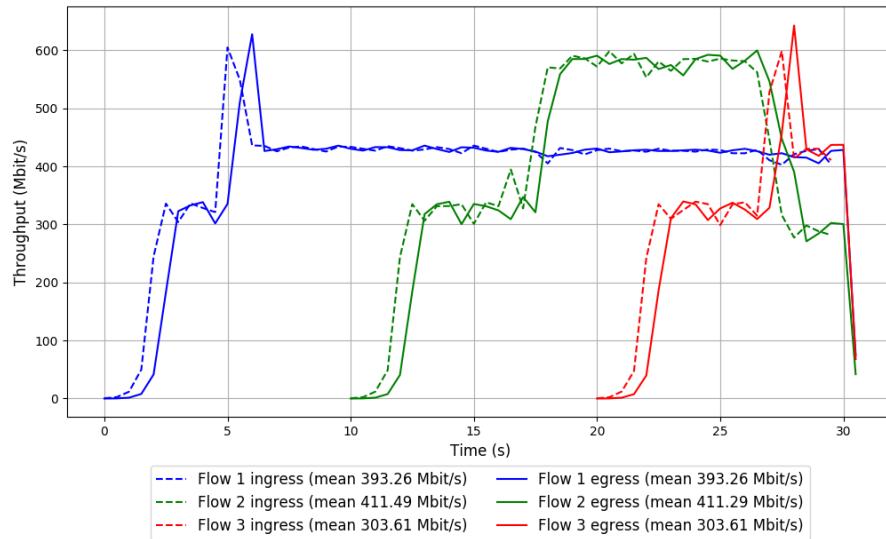


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-21 10:13:01
End at: 2019-01-21 10:13:31
Local clock offset: -0.762 ms
Remote clock offset: 0.245 ms

# Below is generated by plot.py at 2019-01-21 15:12:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 768.07 Mbit/s
95th percentile per-packet one-way delay: 133.786 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 393.26 Mbit/s
95th percentile per-packet one-way delay: 115.595 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 411.29 Mbit/s
95th percentile per-packet one-way delay: 138.441 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 303.61 Mbit/s
95th percentile per-packet one-way delay: 144.880 ms
Loss rate: 0.00%
```

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

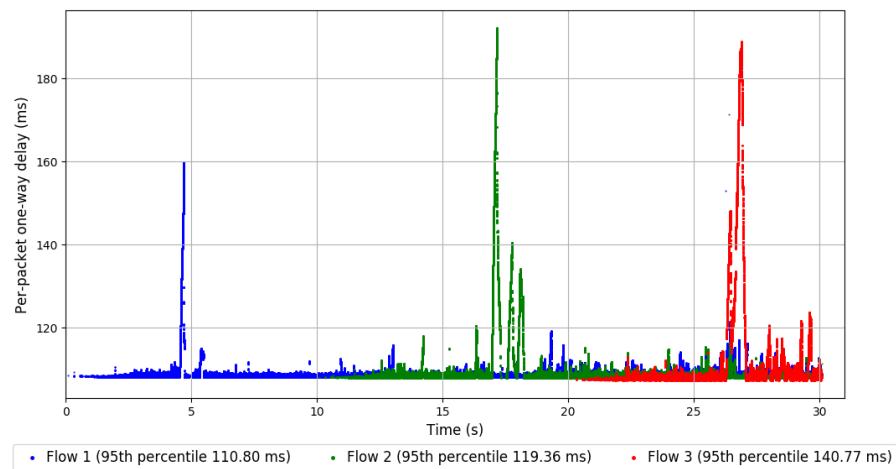
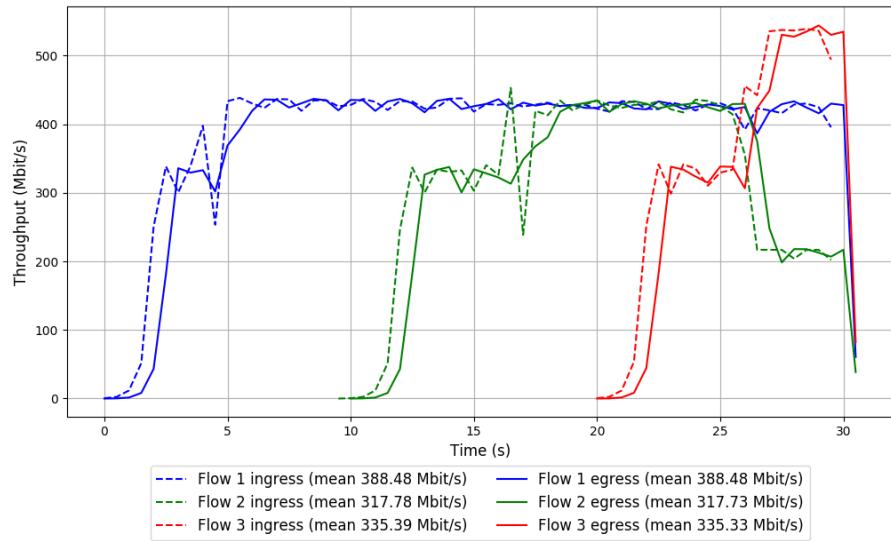


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-21 10:52:08
End at: 2019-01-21 10:52:38
Local clock offset: 0.912 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-01-21 15:12:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 711.74 Mbit/s
95th percentile per-packet one-way delay: 114.573 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 388.48 Mbit/s
95th percentile per-packet one-way delay: 110.798 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 317.73 Mbit/s
95th percentile per-packet one-way delay: 119.365 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 335.33 Mbit/s
95th percentile per-packet one-way delay: 140.771 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

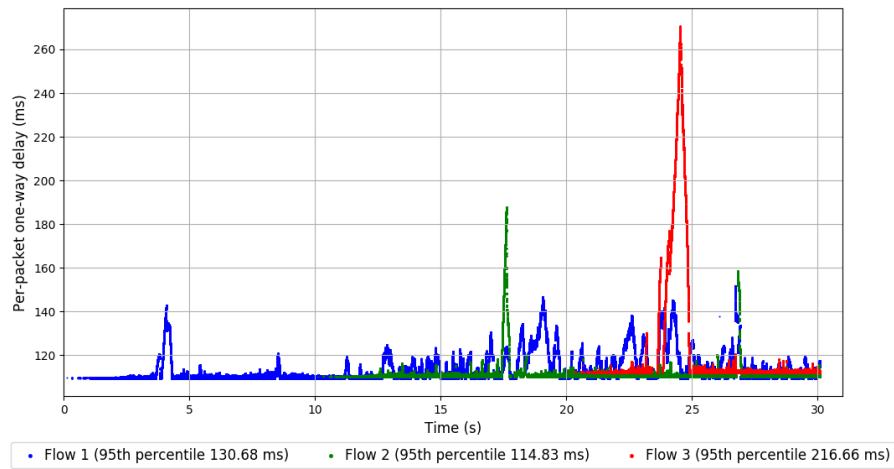
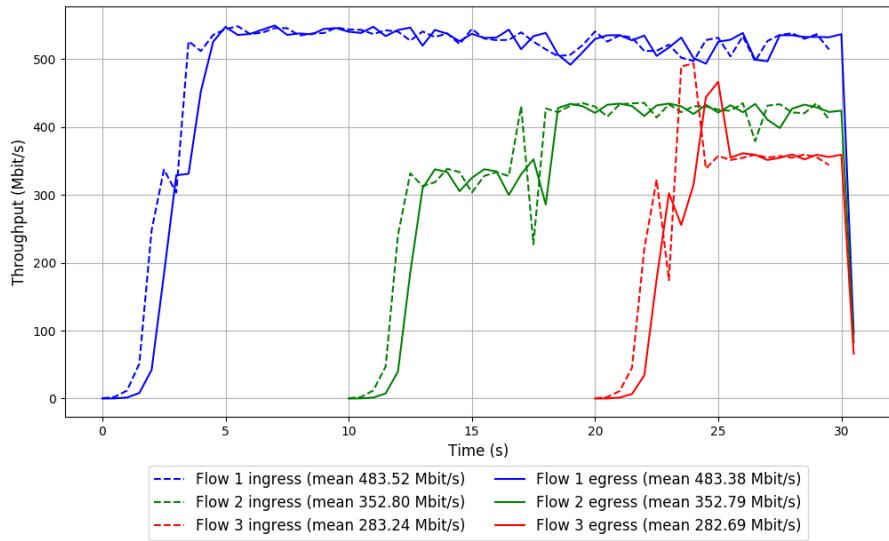


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-21 11:29:44
End at: 2019-01-21 11:30:14
Local clock offset: -0.827 ms
Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2019-01-21 15:15:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 812.31 Mbit/s
95th percentile per-packet one-way delay: 132.817 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 483.38 Mbit/s
95th percentile per-packet one-way delay: 130.682 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 352.79 Mbit/s
95th percentile per-packet one-way delay: 114.831 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 282.69 Mbit/s
95th percentile per-packet one-way delay: 216.657 ms
Loss rate: 0.20%
```

Run 5: Report of TCP Vegas — Data Link

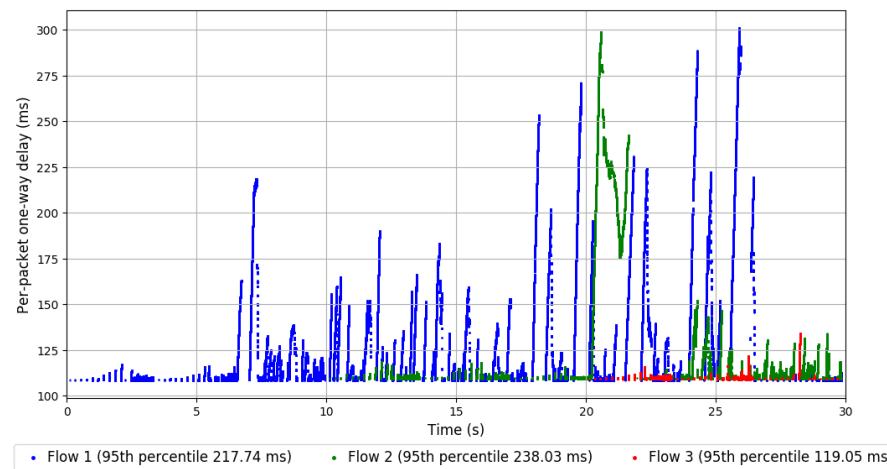
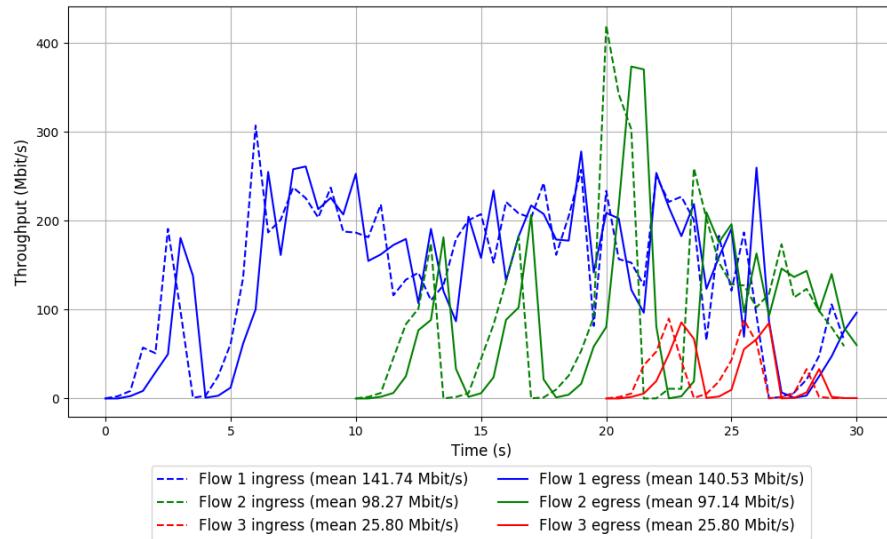


Run 1: Statistics of Verus

```
Start at: 2019-01-21 09:04:52
End at: 2019-01-21 09:05:22
Local clock offset: -0.217 ms
Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2019-01-21 15:15:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 213.19 Mbit/s
95th percentile per-packet one-way delay: 227.386 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 140.53 Mbit/s
95th percentile per-packet one-way delay: 217.737 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 238.027 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 25.80 Mbit/s
95th percentile per-packet one-way delay: 119.054 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link

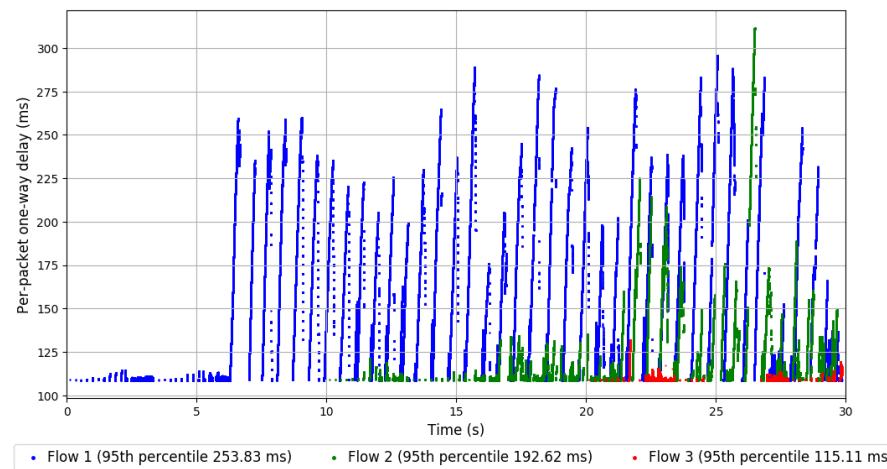
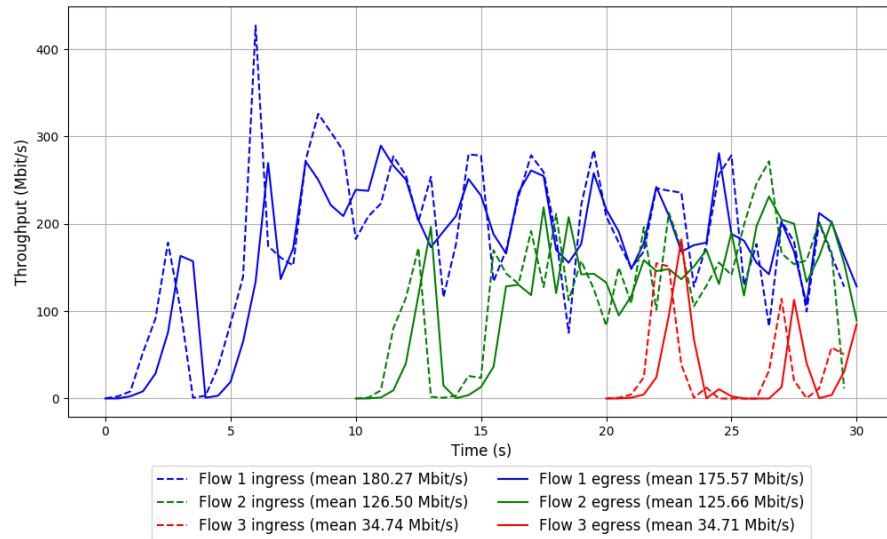


Run 2: Statistics of Verus

```
Start at: 2019-01-21 09:42:28
End at: 2019-01-21 09:42:58
Local clock offset: -0.381 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-01-21 15:15:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.55 Mbit/s
95th percentile per-packet one-way delay: 248.212 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 175.57 Mbit/s
95th percentile per-packet one-way delay: 253.833 ms
Loss rate: 2.61%
-- Flow 2:
Average throughput: 125.66 Mbit/s
95th percentile per-packet one-way delay: 192.625 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 34.71 Mbit/s
95th percentile per-packet one-way delay: 115.107 ms
Loss rate: 0.07%
```

## Run 2: Report of Verus — Data Link

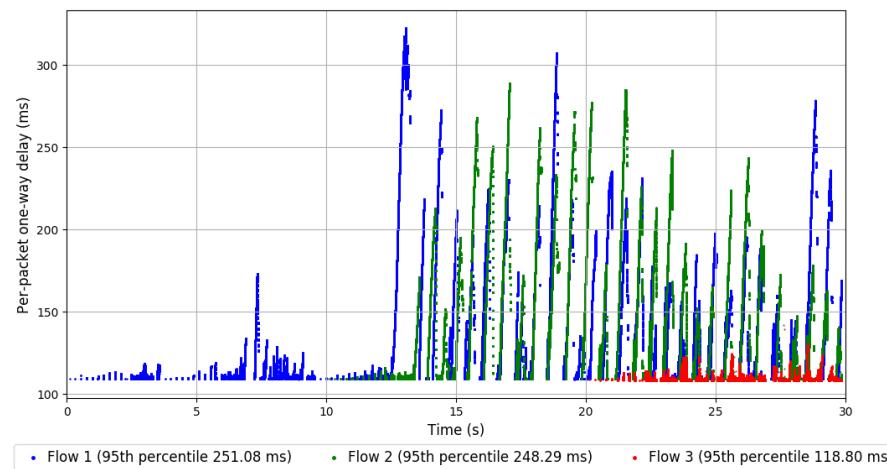
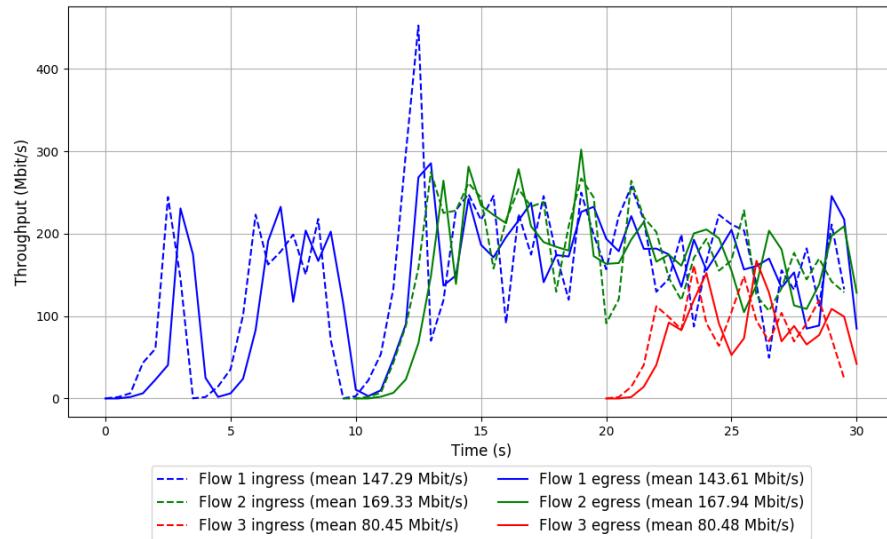


Run 3: Statistics of Verus

```
Start at: 2019-01-21 10:21:20
End at: 2019-01-21 10:21:50
Local clock offset: 0.048 ms
Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2019-01-21 15:15:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.43 Mbit/s
95th percentile per-packet one-way delay: 246.354 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 143.61 Mbit/s
95th percentile per-packet one-way delay: 251.080 ms
Loss rate: 2.50%
-- Flow 2:
Average throughput: 167.94 Mbit/s
95th percentile per-packet one-way delay: 248.286 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 80.48 Mbit/s
95th percentile per-packet one-way delay: 118.796 ms
Loss rate: 0.00%
```

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

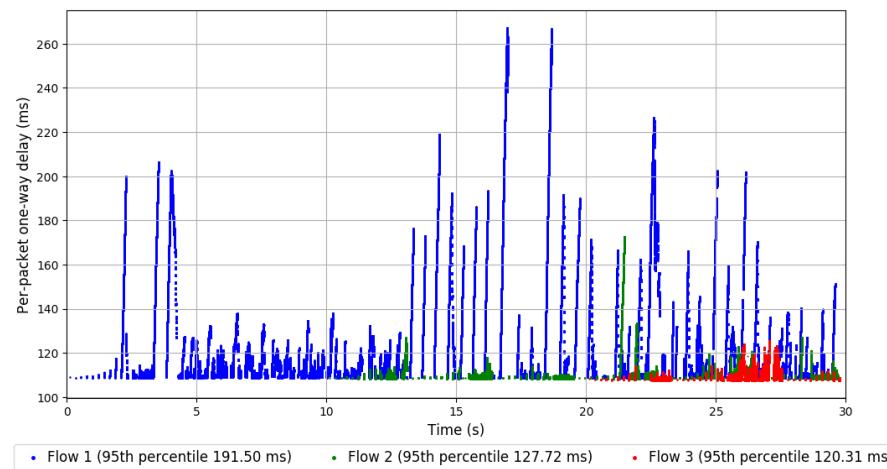
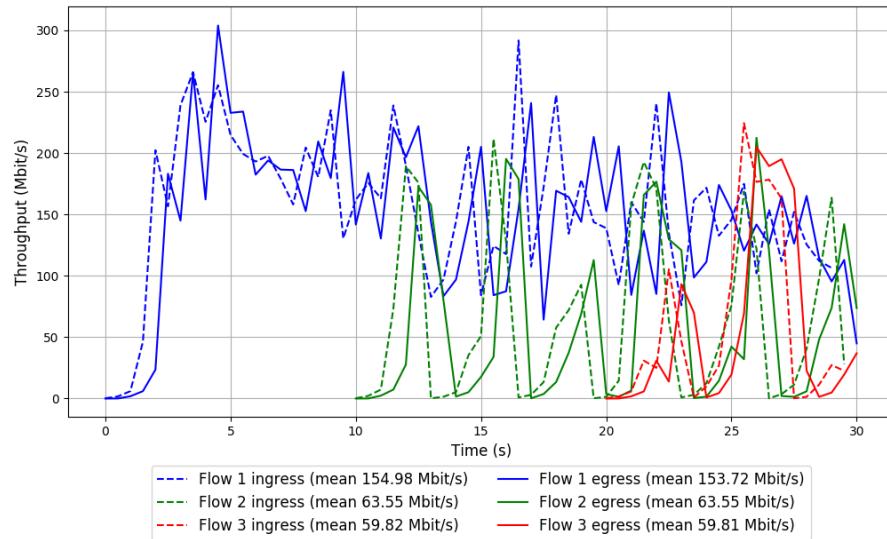


Run 4: Statistics of Verus

```
Start at: 2019-01-21 11:00:21
End at: 2019-01-21 11:00:51
Local clock offset: 0.578 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-01-21 15:15:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 214.22 Mbit/s
95th percentile per-packet one-way delay: 183.136 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 153.72 Mbit/s
95th percentile per-packet one-way delay: 191.502 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 63.55 Mbit/s
95th percentile per-packet one-way delay: 127.725 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.81 Mbit/s
95th percentile per-packet one-way delay: 120.307 ms
Loss rate: 0.00%
```

Run 4: Report of Verus — Data Link

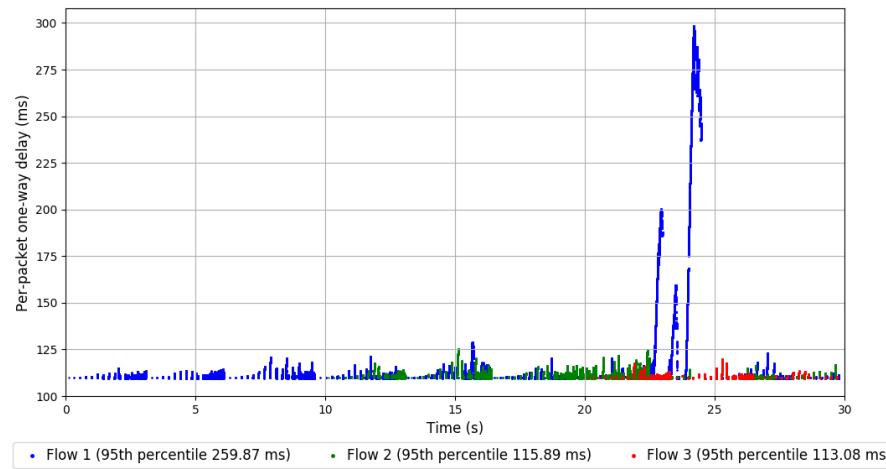
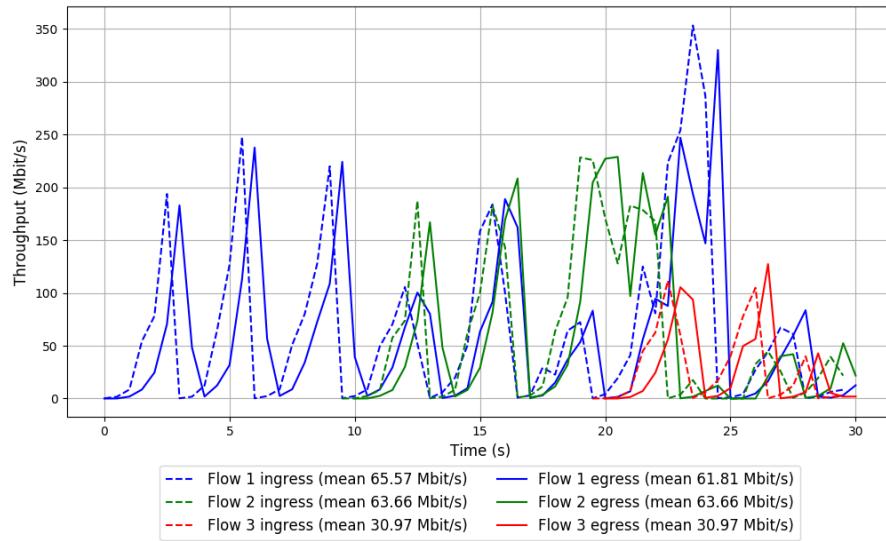


Run 5: Statistics of Verus

```
Start at: 2019-01-21 11:37:58
End at: 2019-01-21 11:38:28
Local clock offset: -0.282 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-01-21 15:15:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.89 Mbit/s
95th percentile per-packet one-way delay: 197.471 ms
Loss rate: 3.19%
-- Flow 1:
Average throughput: 61.81 Mbit/s
95th percentile per-packet one-way delay: 259.868 ms
Loss rate: 5.73%
-- Flow 2:
Average throughput: 63.66 Mbit/s
95th percentile per-packet one-way delay: 115.895 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 113.081 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link

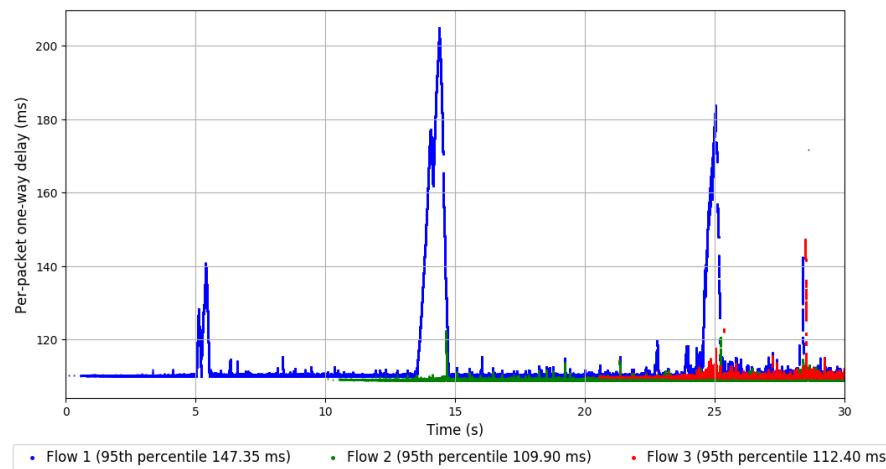
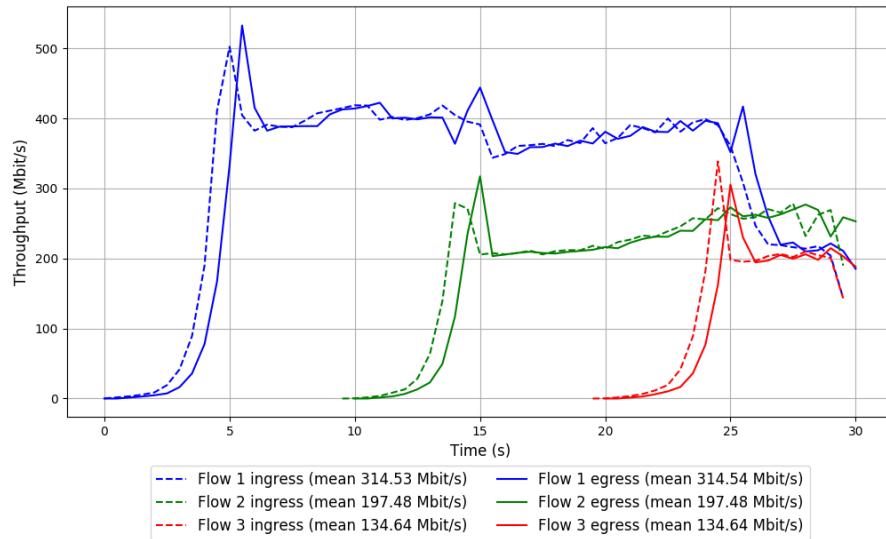


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-01-21 08:53:08
End at: 2019-01-21 08:53:38
Local clock offset: -0.865 ms
Remote clock offset: 0.154 ms

# Below is generated by plot.py at 2019-01-21 15:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 490.50 Mbit/s
95th percentile per-packet one-way delay: 127.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 314.54 Mbit/s
95th percentile per-packet one-way delay: 147.355 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.48 Mbit/s
95th percentile per-packet one-way delay: 109.903 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 134.64 Mbit/s
95th percentile per-packet one-way delay: 112.402 ms
Loss rate: 0.02%
```

Run 1: Report of PCC-Vivace — Data Link

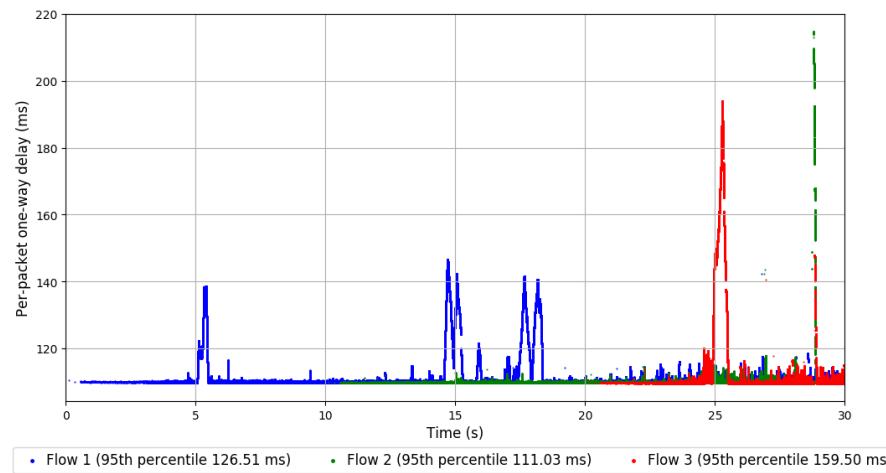
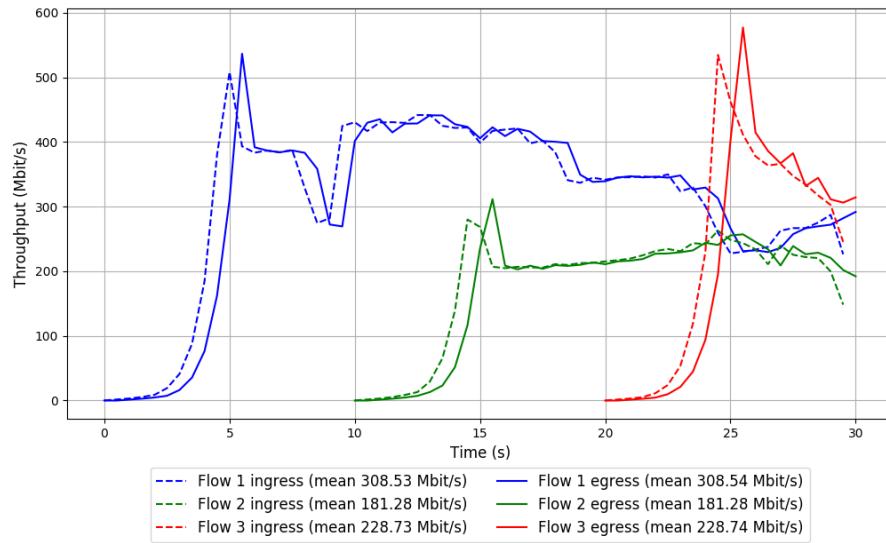


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-21 09:30:25
End at: 2019-01-21 09:30:55
Local clock offset: -0.703 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-01-21 15:19:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 504.57 Mbit/s
95th percentile per-packet one-way delay: 128.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 308.54 Mbit/s
95th percentile per-packet one-way delay: 126.509 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 181.28 Mbit/s
95th percentile per-packet one-way delay: 111.026 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 228.74 Mbit/s
95th percentile per-packet one-way delay: 159.498 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Vivace — Data Link

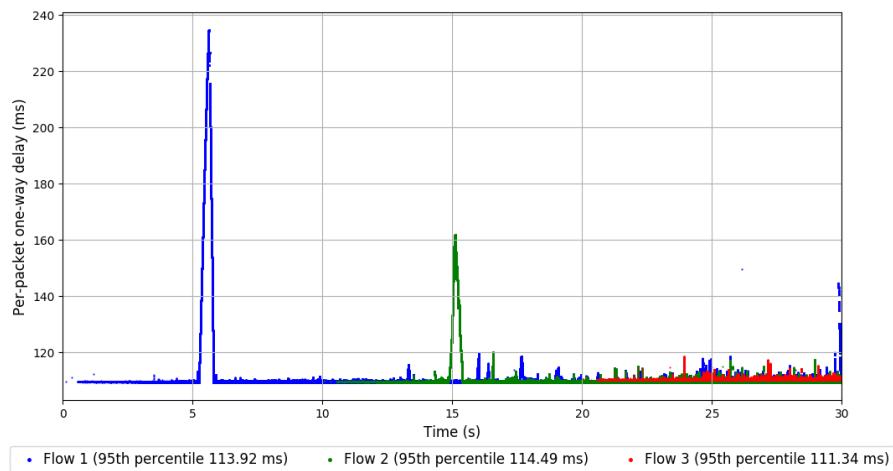
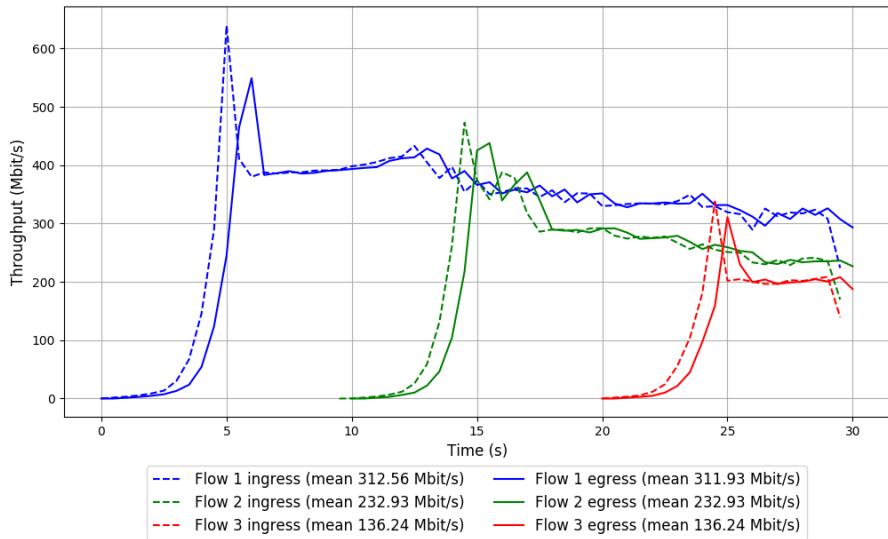


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-21 10:08:53
End at: 2019-01-21 10:09:23
Local clock offset: -1.485 ms
Remote clock offset: -0.277 ms

# Below is generated by plot.py at 2019-01-21 15:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 511.87 Mbit/s
95th percentile per-packet one-way delay: 113.366 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 311.93 Mbit/s
95th percentile per-packet one-way delay: 113.925 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 232.93 Mbit/s
95th percentile per-packet one-way delay: 114.489 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 136.24 Mbit/s
95th percentile per-packet one-way delay: 111.337 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

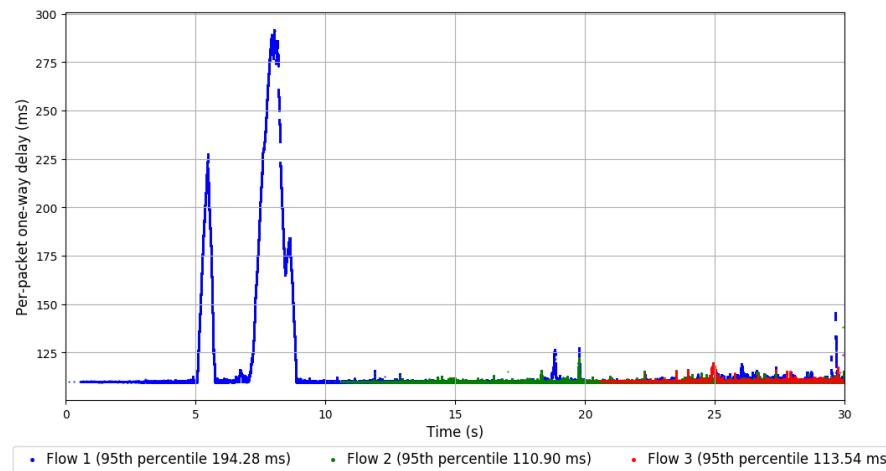
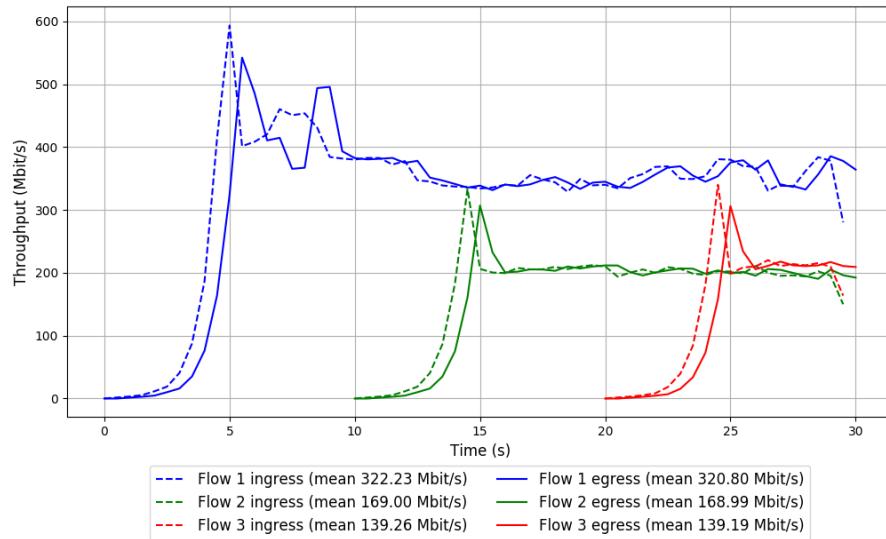


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-21 10:47:56
End at: 2019-01-21 10:48:26
Local clock offset: -0.276 ms
Remote clock offset: 0.402 ms

# Below is generated by plot.py at 2019-01-21 15:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 479.07 Mbit/s
95th percentile per-packet one-way delay: 171.128 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 320.80 Mbit/s
95th percentile per-packet one-way delay: 194.285 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 168.99 Mbit/s
95th percentile per-packet one-way delay: 110.897 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 139.19 Mbit/s
95th percentile per-packet one-way delay: 113.543 ms
Loss rate: 0.07%
```

Run 4: Report of PCC-Vivace — Data Link

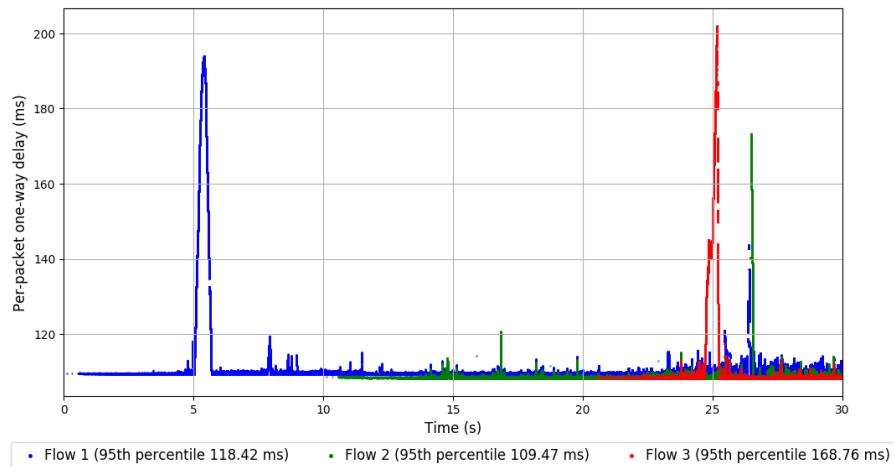
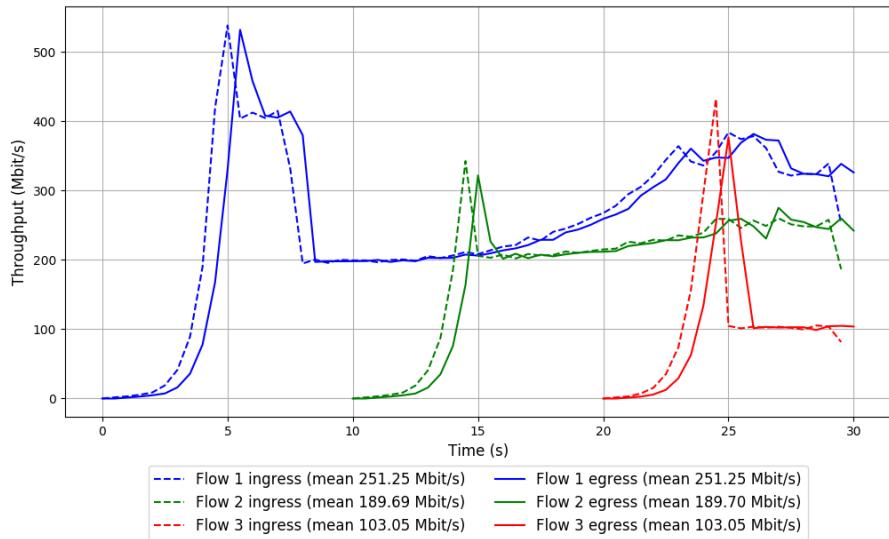


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-21 11:25:51
End at: 2019-01-21 11:26:21
Local clock offset: -0.093 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-01-21 15:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 411.37 Mbit/s
95th percentile per-packet one-way delay: 116.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.25 Mbit/s
95th percentile per-packet one-way delay: 118.425 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 189.70 Mbit/s
95th percentile per-packet one-way delay: 109.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 103.05 Mbit/s
95th percentile per-packet one-way delay: 168.764 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

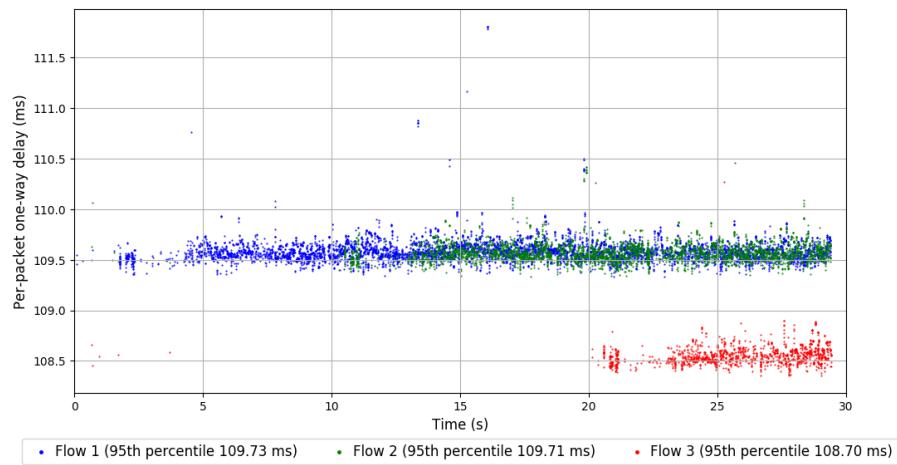
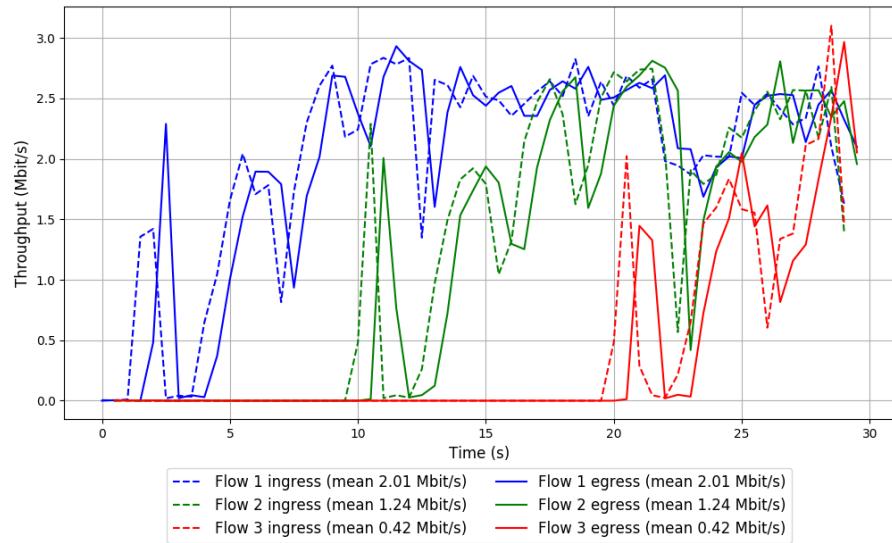


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-21 09:19:12
End at: 2019-01-21 09:19:42
Local clock offset: 0.308 ms
Remote clock offset: 0.464 ms

# Below is generated by plot.py at 2019-01-21 15:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 109.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 109.730 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 109.708 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 108.702 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

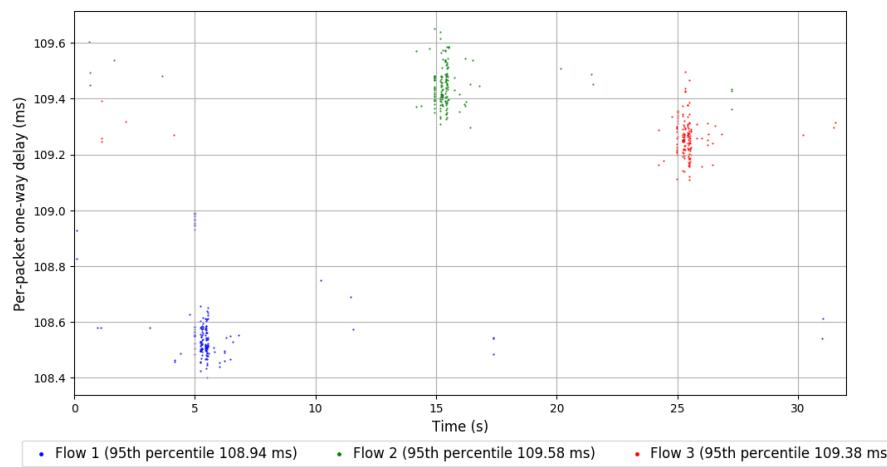
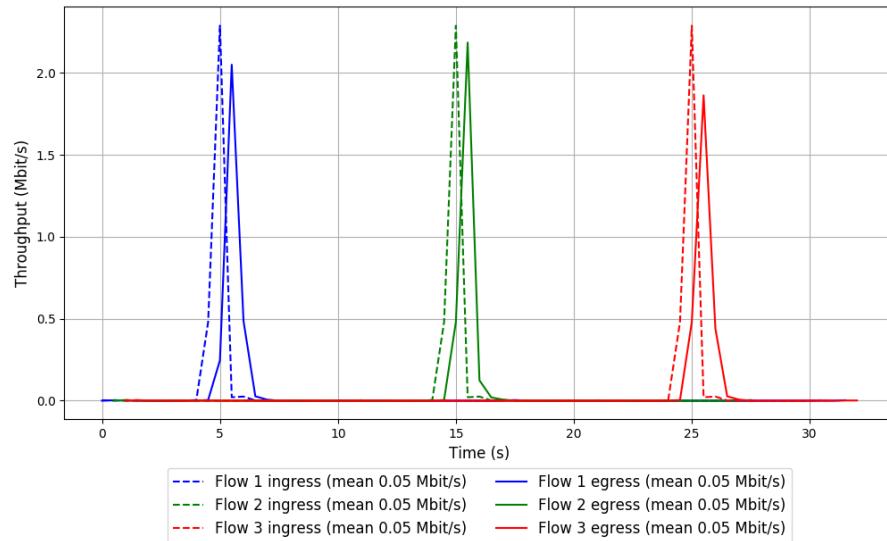


```
Run 2: Statistics of WebRTC media

Start at: 2019-01-21 09:57:02
End at: 2019-01-21 09:57:32
Local clock offset: -0.125 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-01-21 15:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 109.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.584 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.379 ms
Loss rate: 0.00%
```

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

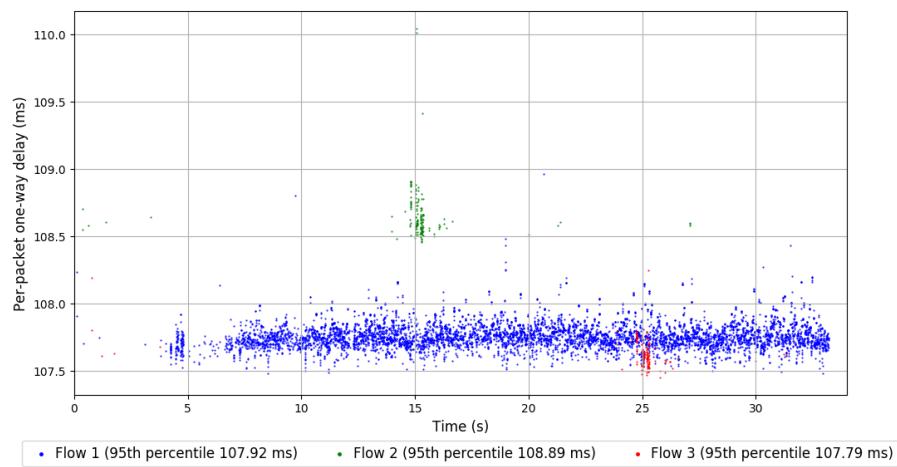
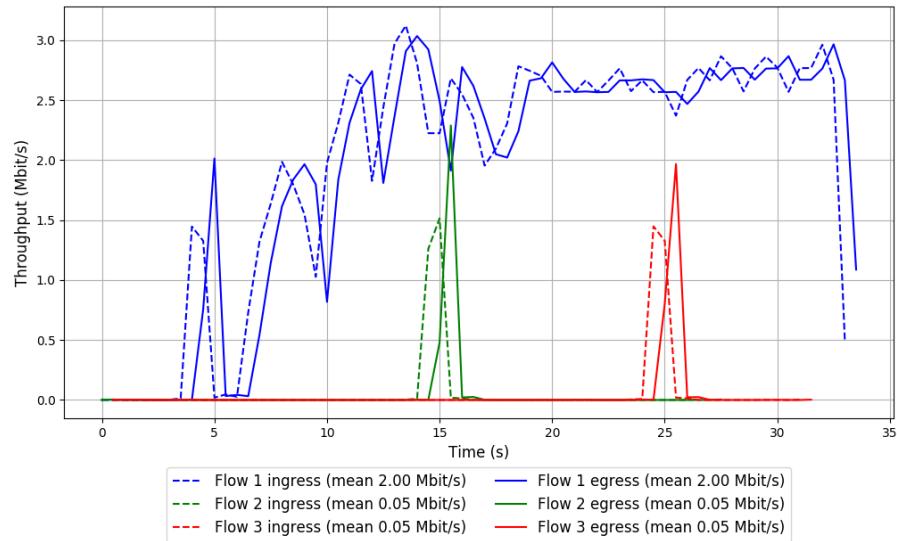


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-21 10:36:34
End at: 2019-01-21 10:37:04
Local clock offset: 0.719 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-21 15:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 107.955 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 107.918 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.893 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 107.789 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

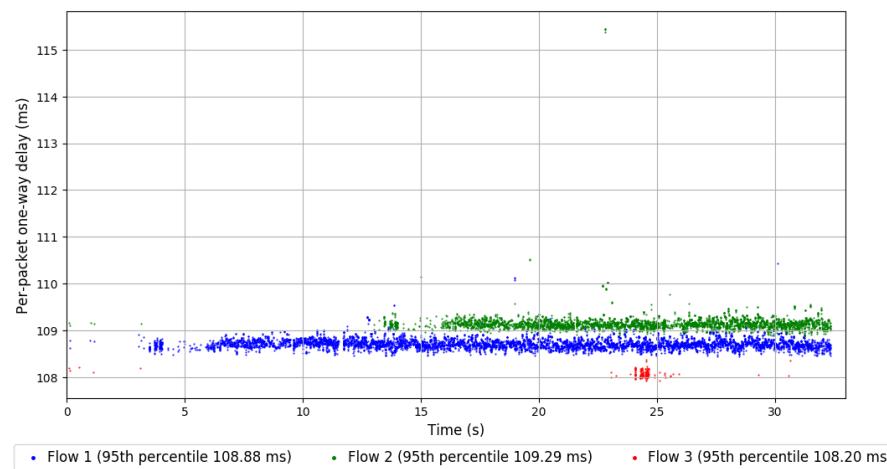
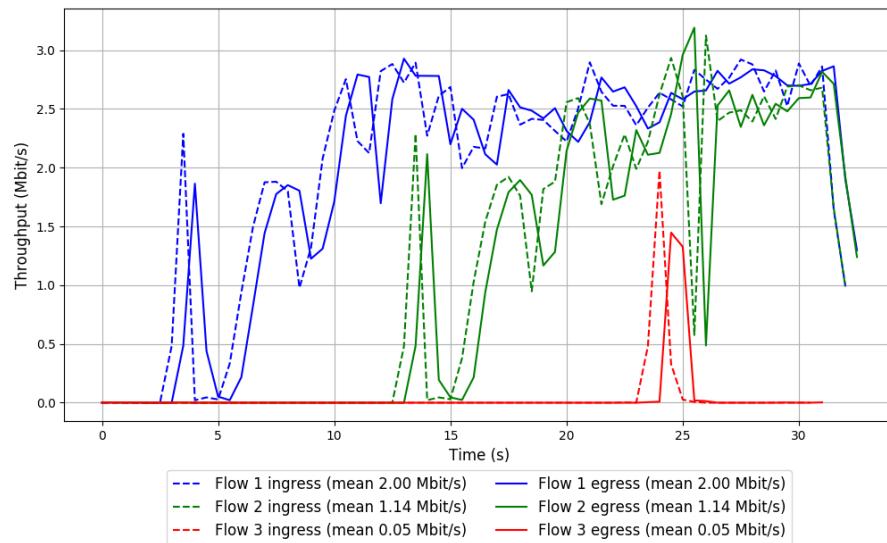


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-21 11:14:36
End at: 2019-01-21 11:15:06
Local clock offset: 0.513 ms
Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2019-01-21 15:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 109.229 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 108.878 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 109.294 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.201 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-21 11:52:08
End at: 2019-01-21 11:52:38
Local clock offset: -0.013 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-01-21 15:19:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 109.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.377 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.376 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.269 ms
Loss rate: 0.00%
```

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

