

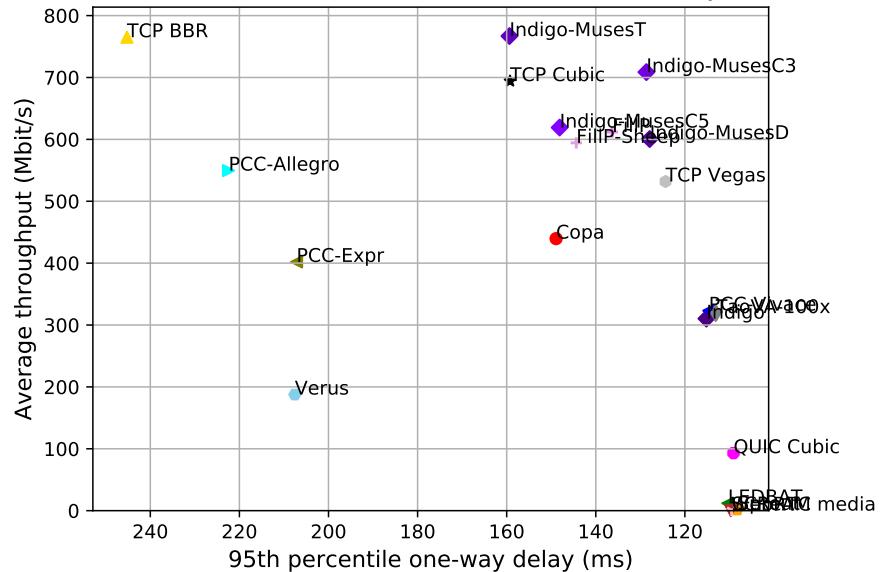
Pantheon Report

Generated at 2019-06-27 11:00:09 (UTC).
Data path: GCE London on `ens4` (*remote*) → GCE Tokyo on `ens4` (*local*).
Repeated the test of 22 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.

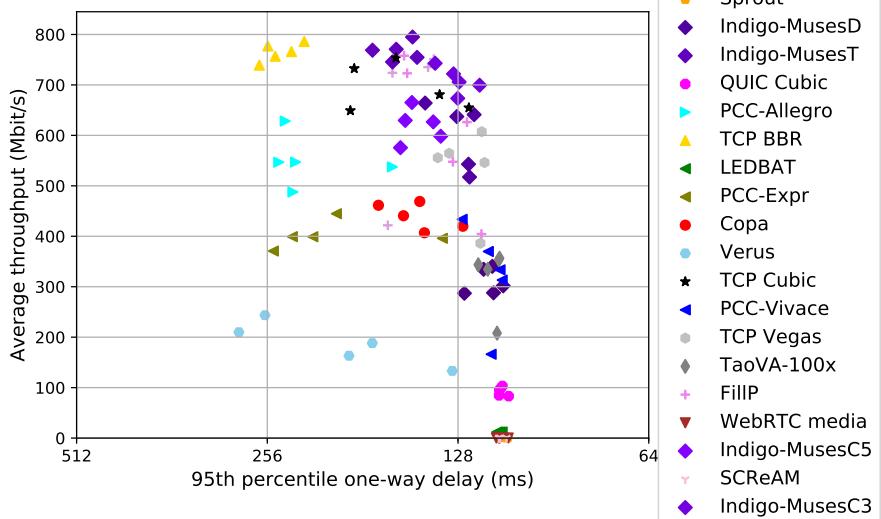
```
System info:  
Linux 4.15.0-1032-gcp  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef  
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf  
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966  
third_party/muses_dtree @ 11c9498ecb1596b02cc896791a02d03172af7ed  
M helpers/__init__.pyc  
M helpers/context.pyc  
M helpers/utils.pyc  
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd  
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 London to GCE Tokyo, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



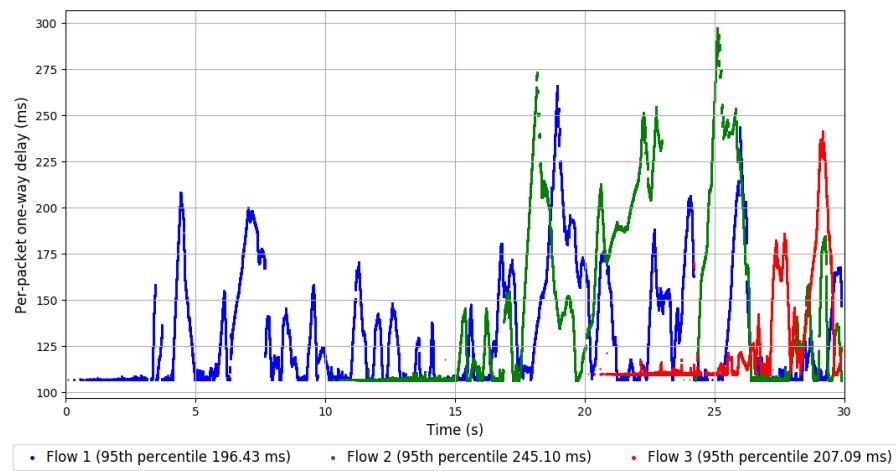
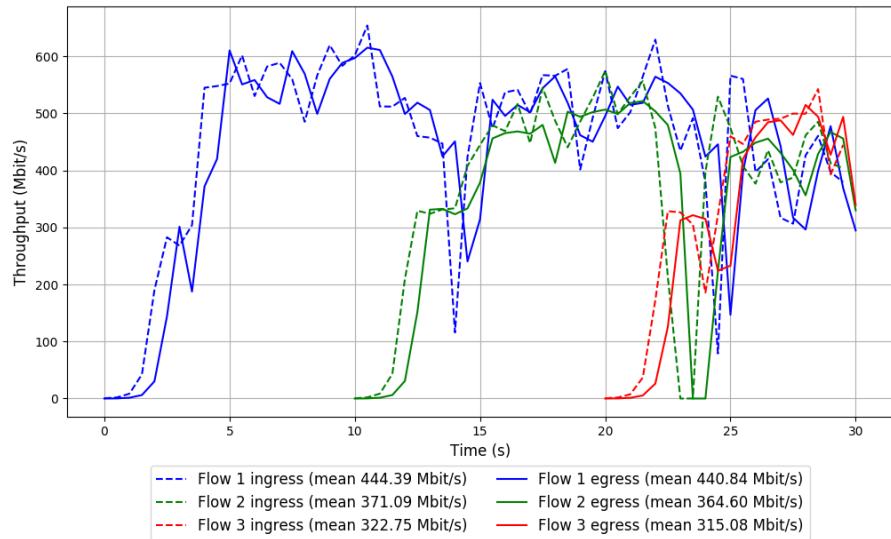
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	414.09	376.30	309.15	241.36	246.88	220.65	3.41	3.40	3.83
Copa	5	241.72	212.74	173.26	142.75	155.34	127.74	0.77	1.30	3.07
TCP Cubic	5	381.05	319.65	308.26	145.04	136.49	187.35	0.81	1.34	3.46
FillP	5	316.83	325.43	243.10	146.11	115.03	115.46	1.56	1.03	2.57
FillP-Sheep	5	316.14	304.81	233.48	150.85	122.70	113.75	1.39	1.06	2.37
Indigo	5	169.35	148.66	131.29	115.23	115.49	114.21	0.80	1.28	2.85
Indigo-MusesC3	5	417.70	351.56	254.58	129.89	132.83	115.05	0.70	1.16	4.10
Indigo-MusesC5	5	355.41	350.29	147.14	147.60	155.02	110.90	0.49	1.19	4.82
Indigo-MusesD	5	374.78	304.92	115.68	130.49	124.02	110.02	0.88	1.60	3.90
Indigo-MusesT	5	466.24	390.04	193.70	168.28	140.25	115.95	0.70	1.23	3.52
LEDBAT	5	7.77	5.09	2.49	109.60	109.71	109.43	1.47	2.23	4.45
Muses.DecisionTree	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Allegro	5	307.22	250.53	235.46	201.41	181.68	246.68	6.04	3.56	5.82
PCC-Expr	5	247.29	157.74	154.54	212.05	149.72	181.27	2.88	1.85	3.68
QUIC Cubic	5	50.44	45.76	36.45	107.37	108.23	108.93	1.05	1.80	3.94
SCReAM	5	0.22	0.22	0.22	107.59	108.23	108.30	0.72	1.25	2.08
Sprout	5	0.50	1.11	0.48	107.13	108.01	107.13	0.67	1.01	2.02
TaoVA-100x	5	184.97	141.87	122.80	111.46	114.33	117.33	0.80	1.22	2.21
TCP Vegas	5	282.57	272.34	209.66	122.47	117.04	146.63	0.66	1.13	2.71
Verus	5	90.61	109.05	77.03	182.83	196.19	187.33	1.16	1.62	2.83
PCC-Vivace	5	195.65	143.27	100.63	115.67	112.43	122.55	1.09	1.97	4.90
WebRTC media	5	0.05	0.05	0.05	107.47	109.65	108.44	0.00	0.00	0.01

Run 1: Statistics of TCP BBR

```
Start at: 2019-06-27 05:45:32
End at: 2019-06-27 05:46:02
Local clock offset: -0.223 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-06-27 09:01:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 786.09 Mbit/s
95th percentile per-packet one-way delay: 223.887 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 440.84 Mbit/s
95th percentile per-packet one-way delay: 196.433 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 364.60 Mbit/s
95th percentile per-packet one-way delay: 245.102 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 315.08 Mbit/s
95th percentile per-packet one-way delay: 207.090 ms
Loss rate: 4.51%
```

Run 1: Report of TCP BBR — Data Link

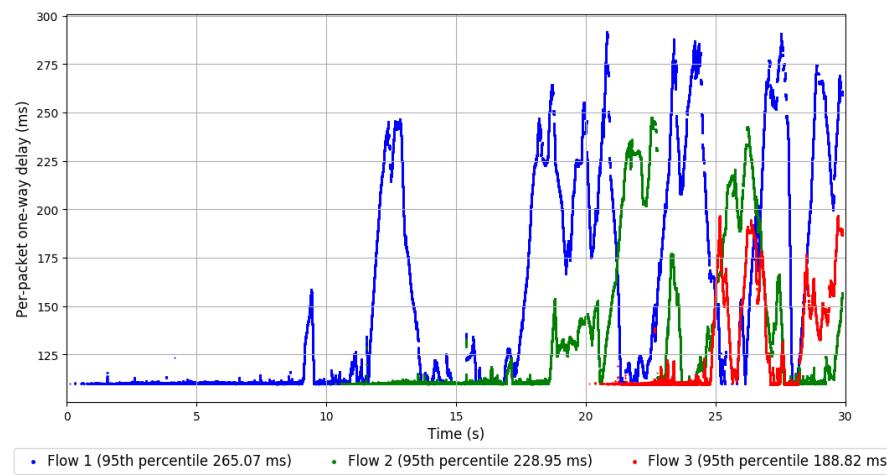
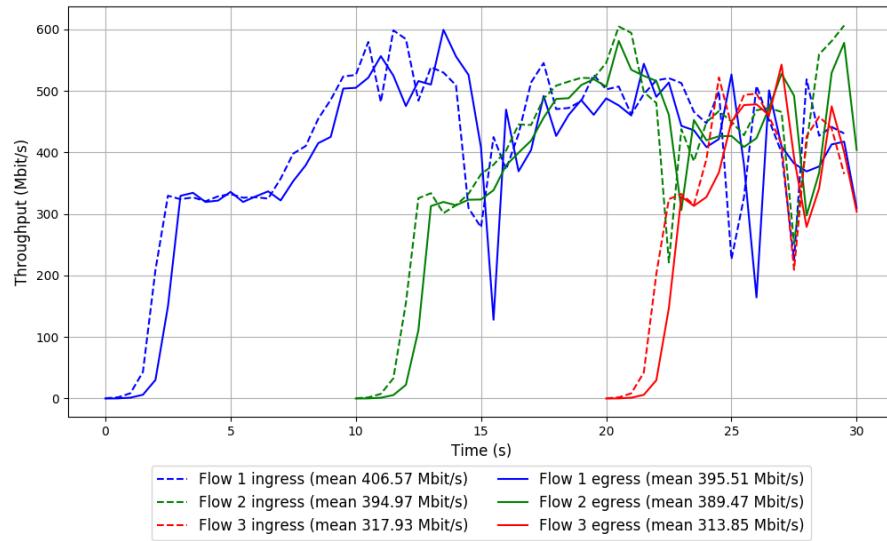


Run 2: Statistics of TCP BBR

```
Start at: 2019-06-27 06:23:41
End at: 2019-06-27 06:24:11
Local clock offset: -0.074 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-06-27 09:01:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 756.84 Mbit/s
95th percentile per-packet one-way delay: 248.736 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 395.51 Mbit/s
95th percentile per-packet one-way delay: 265.072 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 389.47 Mbit/s
95th percentile per-packet one-way delay: 228.950 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 313.85 Mbit/s
95th percentile per-packet one-way delay: 188.818 ms
Loss rate: 3.48%
```

Run 2: Report of TCP BBR — Data Link

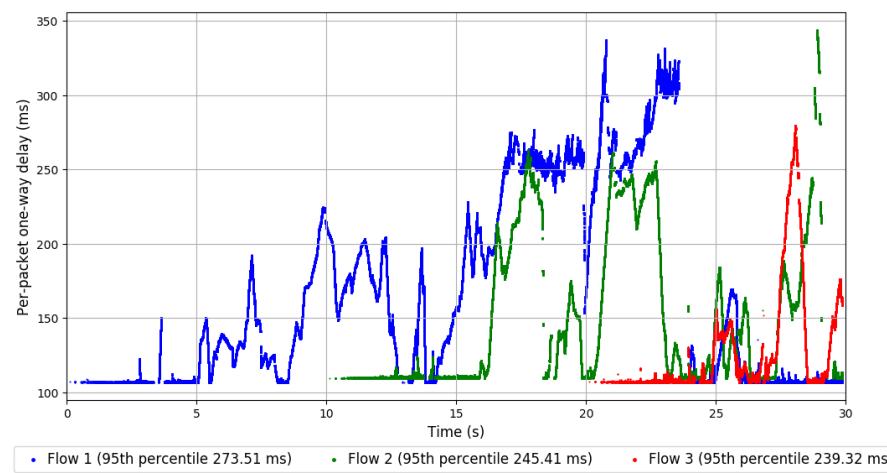
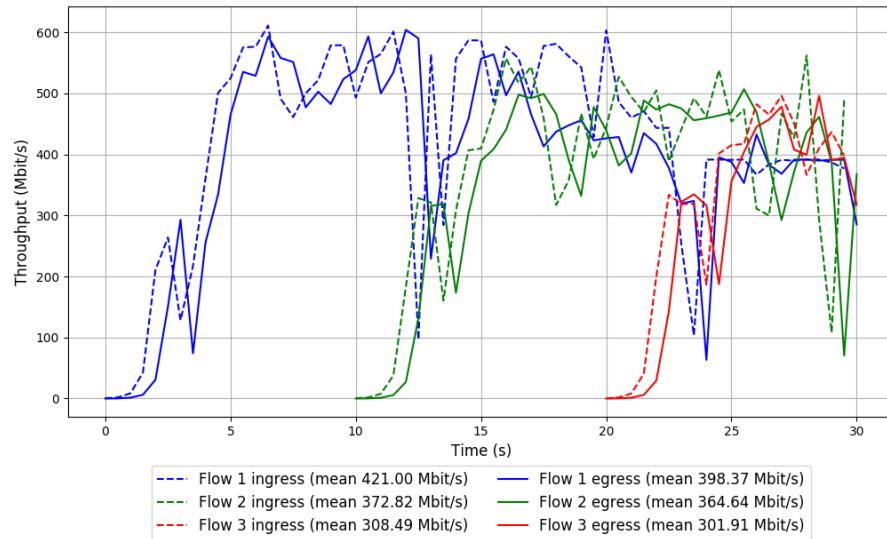


Run 3: Statistics of TCP BBR

```
Start at: 2019-06-27 07:01:33
End at: 2019-06-27 07:02:03
Local clock offset: -0.034 ms
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2019-06-27 09:01:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 739.18 Mbit/s
95th percentile per-packet one-way delay: 263.515 ms
Loss rate: 4.93%
-- Flow 1:
Average throughput: 398.37 Mbit/s
95th percentile per-packet one-way delay: 273.512 ms
Loss rate: 6.07%
-- Flow 2:
Average throughput: 364.64 Mbit/s
95th percentile per-packet one-way delay: 245.408 ms
Loss rate: 3.28%
-- Flow 3:
Average throughput: 301.91 Mbit/s
95th percentile per-packet one-way delay: 239.322 ms
Loss rate: 4.27%
```

Run 3: Report of TCP BBR — Data Link

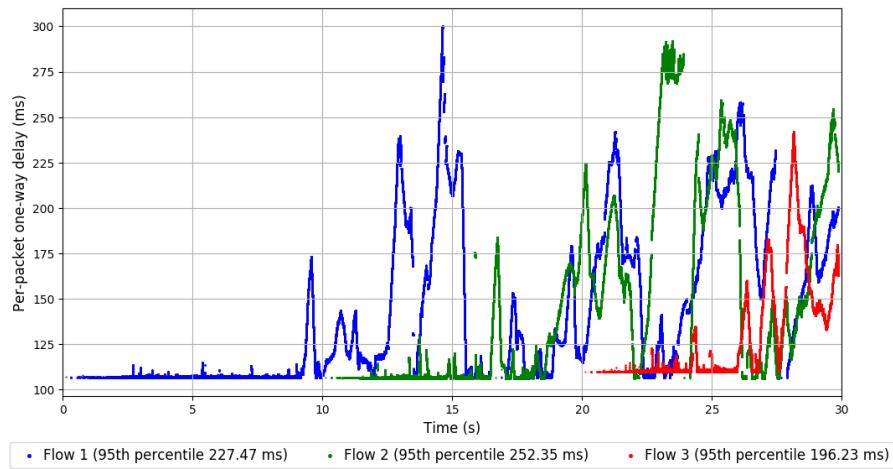
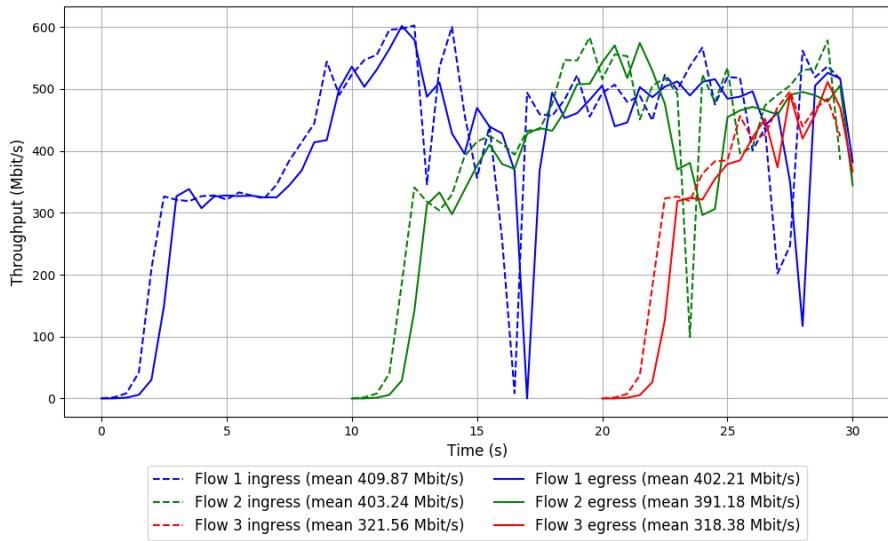


Run 4: Statistics of TCP BBR

```
Start at: 2019-06-27 07:39:41
End at: 2019-06-27 07:40:11
Local clock offset: 0.026 ms
Remote clock offset: 0.315 ms

# Below is generated by plot.py at 2019-06-27 09:01:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 766.06 Mbit/s
95th percentile per-packet one-way delay: 234.493 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 402.21 Mbit/s
95th percentile per-packet one-way delay: 227.474 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 391.18 Mbit/s
95th percentile per-packet one-way delay: 252.351 ms
Loss rate: 4.06%
-- Flow 3:
Average throughput: 318.38 Mbit/s
95th percentile per-packet one-way delay: 196.231 ms
Loss rate: 3.19%
```

Run 4: Report of TCP BBR — Data Link

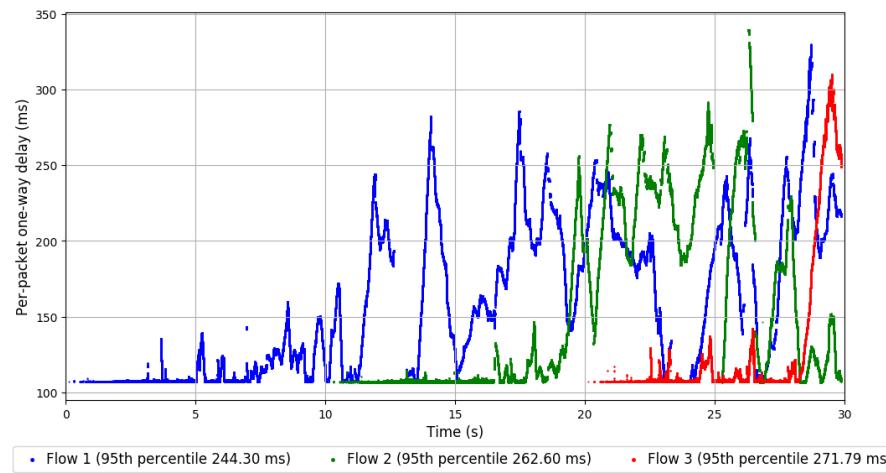
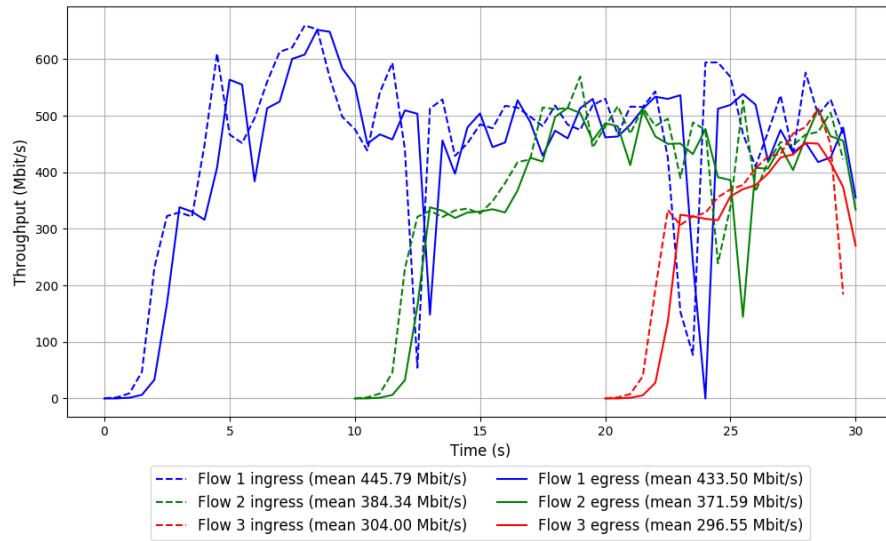


Run 5: Statistics of TCP BBR

```
Start at: 2019-06-27 08:17:50
End at: 2019-06-27 08:18:20
Local clock offset: -0.088 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-06-27 09:01:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 777.16 Mbit/s
95th percentile per-packet one-way delay: 255.540 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 433.50 Mbit/s
95th percentile per-packet one-way delay: 244.296 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 371.59 Mbit/s
95th percentile per-packet one-way delay: 262.603 ms
Loss rate: 4.38%
-- Flow 3:
Average throughput: 296.55 Mbit/s
95th percentile per-packet one-way delay: 271.787 ms
Loss rate: 3.72%
```

Run 5: Report of TCP BBR — Data Link

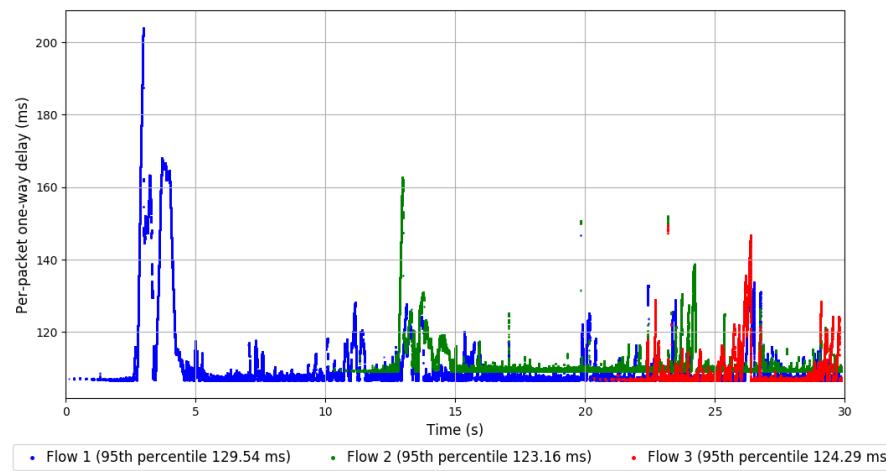
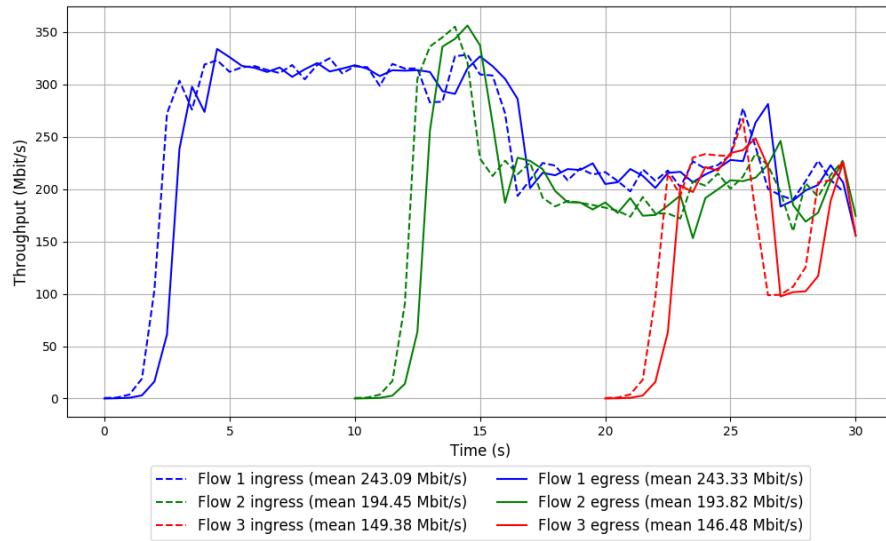


Run 1: Statistics of Copa

```
Start at: 2019-06-27 05:29:33
End at: 2019-06-27 05:30:03
Local clock offset: 0.082 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-06-27 09:01:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.88 Mbit/s
95th percentile per-packet one-way delay: 125.780 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 243.33 Mbit/s
95th percentile per-packet one-way delay: 129.541 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 193.82 Mbit/s
95th percentile per-packet one-way delay: 123.161 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 146.48 Mbit/s
95th percentile per-packet one-way delay: 124.291 ms
Loss rate: 4.05%
```

Run 1: Report of Copa — Data Link

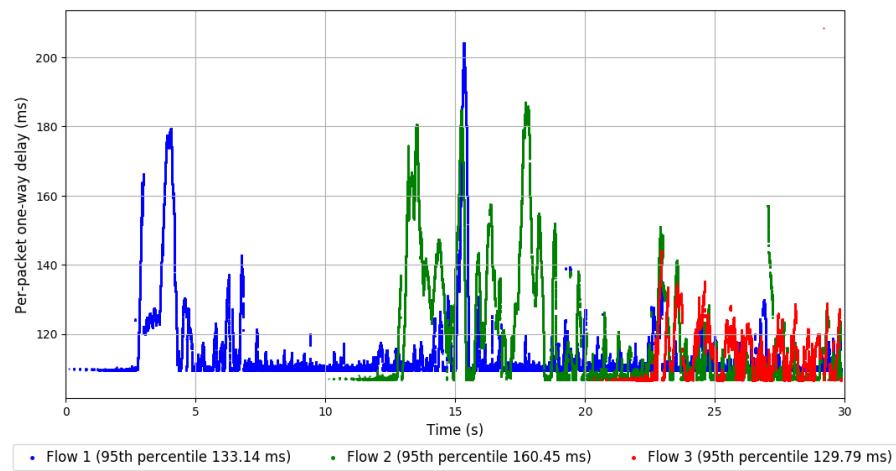
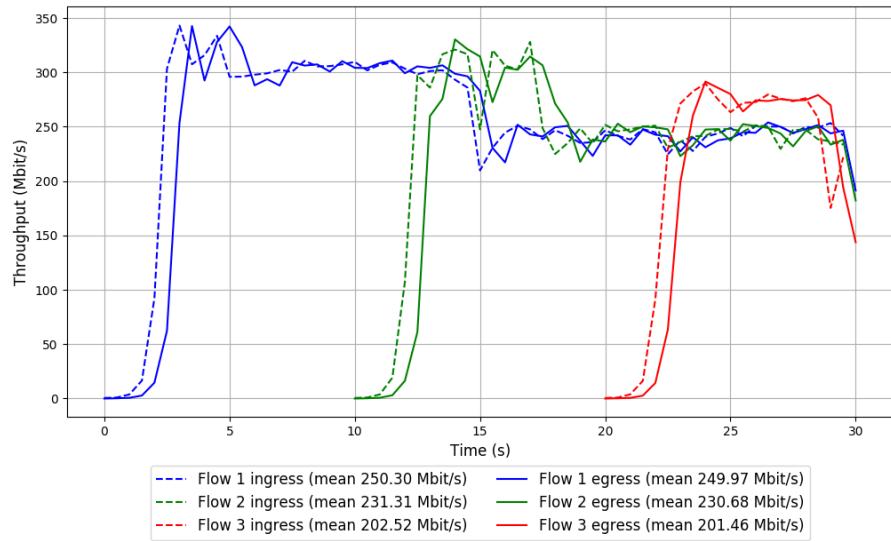


Run 2: Statistics of Copa

```
Start at: 2019-06-27 06:07:04
End at: 2019-06-27 06:07:34
Local clock offset: -0.232 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-06-27 09:02:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 468.99 Mbit/s
95th percentile per-packet one-way delay: 147.105 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 249.97 Mbit/s
95th percentile per-packet one-way delay: 133.139 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 230.68 Mbit/s
95th percentile per-packet one-way delay: 160.448 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 201.46 Mbit/s
95th percentile per-packet one-way delay: 129.792 ms
Loss rate: 2.69%
```

Run 2: Report of Copa — Data Link

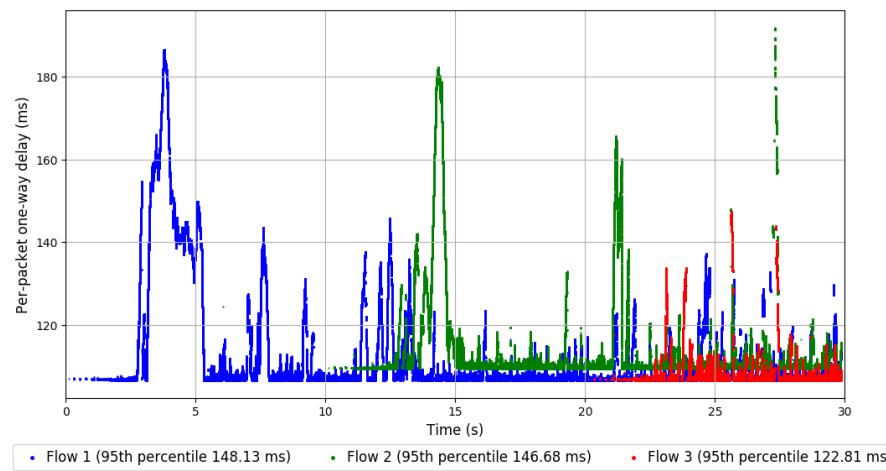
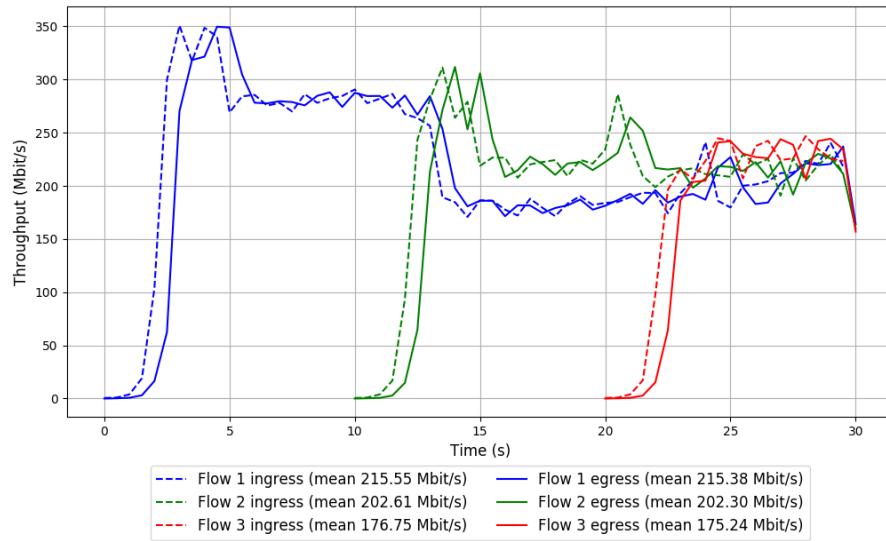


Run 3: Statistics of Copa

```
Start at: 2019-06-27 06:45:24
End at: 2019-06-27 06:45:54
Local clock offset: -0.154 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-06-27 09:02:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 406.93 Mbit/s
95th percentile per-packet one-way delay: 144.644 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 215.38 Mbit/s
95th percentile per-packet one-way delay: 148.129 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 202.30 Mbit/s
95th percentile per-packet one-way delay: 146.682 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 175.24 Mbit/s
95th percentile per-packet one-way delay: 122.808 ms
Loss rate: 3.02%
```

Run 3: Report of Copa — Data Link

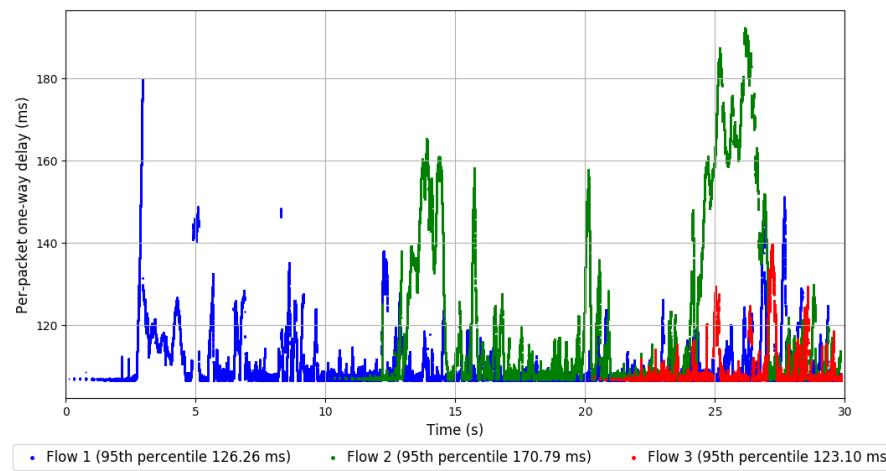
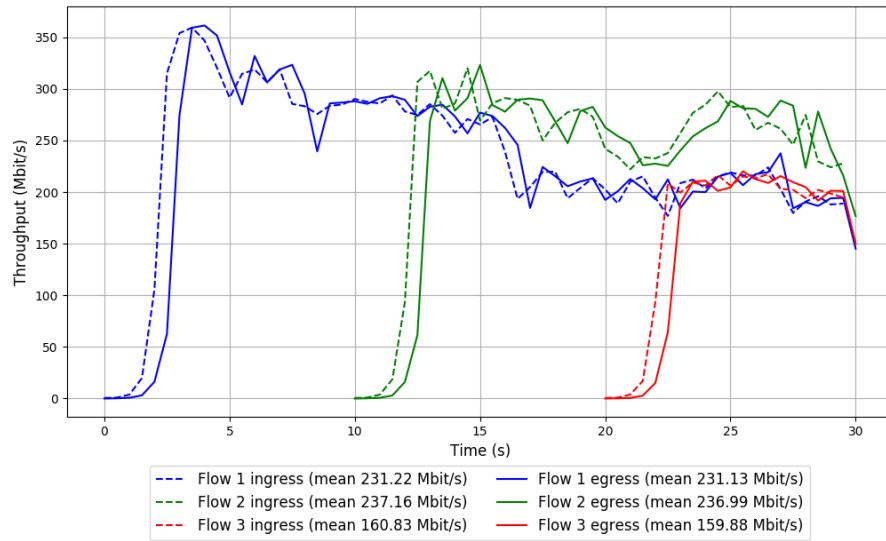


Run 4: Statistics of Copa

```
Start at: 2019-06-27 07:22:48
End at: 2019-06-27 07:23:18
Local clock offset: 0.112 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-06-27 09:16:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 440.74 Mbit/s
95th percentile per-packet one-way delay: 156.069 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 231.13 Mbit/s
95th percentile per-packet one-way delay: 126.260 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 236.99 Mbit/s
95th percentile per-packet one-way delay: 170.795 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 159.88 Mbit/s
95th percentile per-packet one-way delay: 123.096 ms
Loss rate: 2.75%
```

Run 4: Report of Copa — Data Link

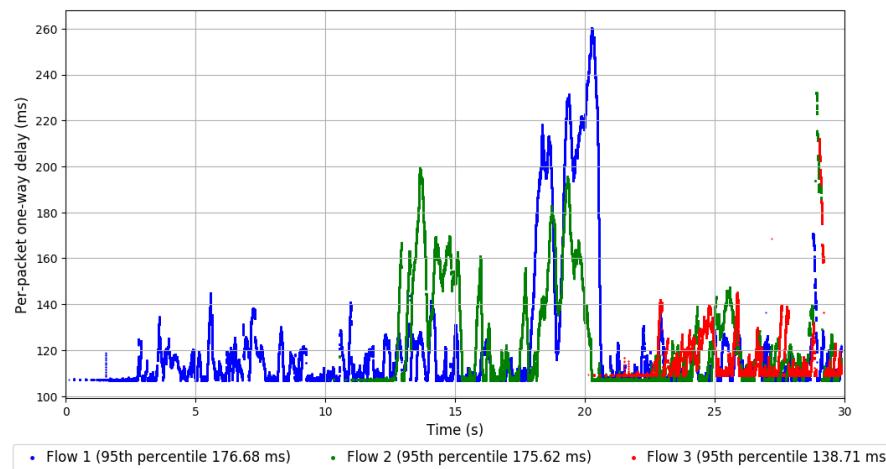
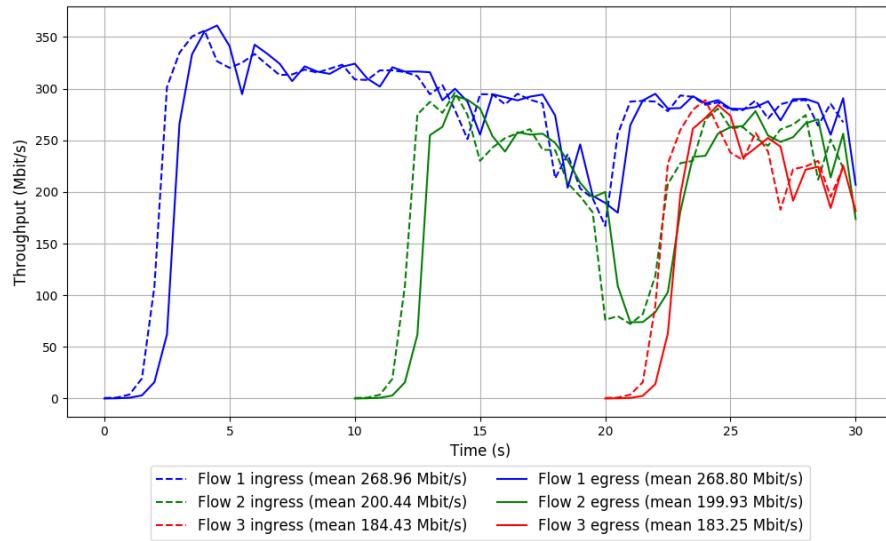


Run 5: Statistics of Copa

```
Start at: 2019-06-27 08:01:10
End at: 2019-06-27 08:01:40
Local clock offset: -0.047 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-06-27 09:17:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 461.47 Mbit/s
95th percentile per-packet one-way delay: 170.943 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 268.80 Mbit/s
95th percentile per-packet one-way delay: 176.679 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 199.93 Mbit/s
95th percentile per-packet one-way delay: 175.618 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 183.25 Mbit/s
95th percentile per-packet one-way delay: 138.714 ms
Loss rate: 2.85%
```

Run 5: Report of Copa — Data Link

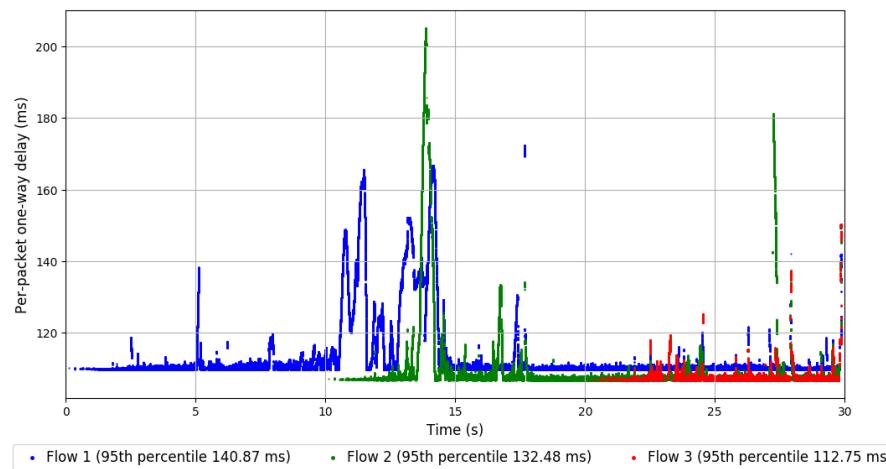
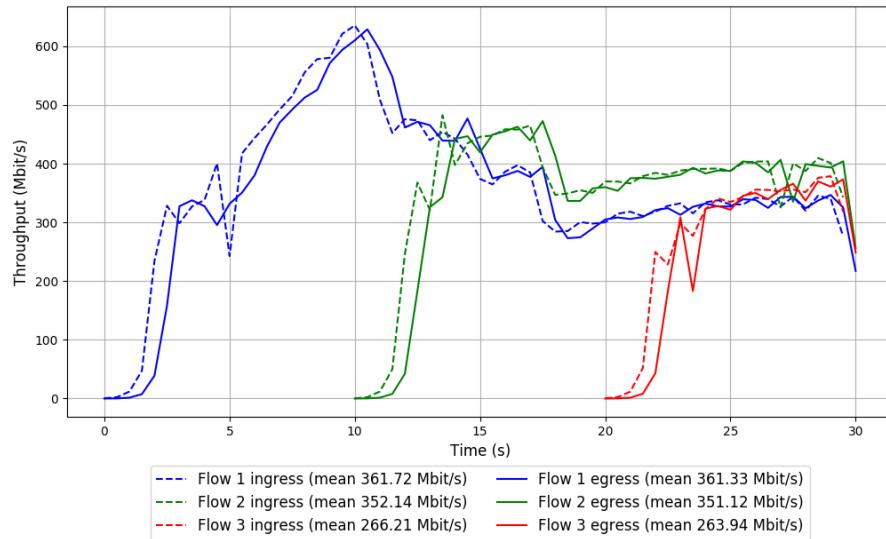


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-06-27 05:34:51
End at: 2019-06-27 05:35:21
Local clock offset: -0.154 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-06-27 09:17:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 680.77 Mbit/s
95th percentile per-packet one-way delay: 136.877 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 361.33 Mbit/s
95th percentile per-packet one-way delay: 140.874 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 351.12 Mbit/s
95th percentile per-packet one-way delay: 132.484 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 263.94 Mbit/s
95th percentile per-packet one-way delay: 112.748 ms
Loss rate: 2.99%
```

Run 1: Report of TCP Cubic — Data Link

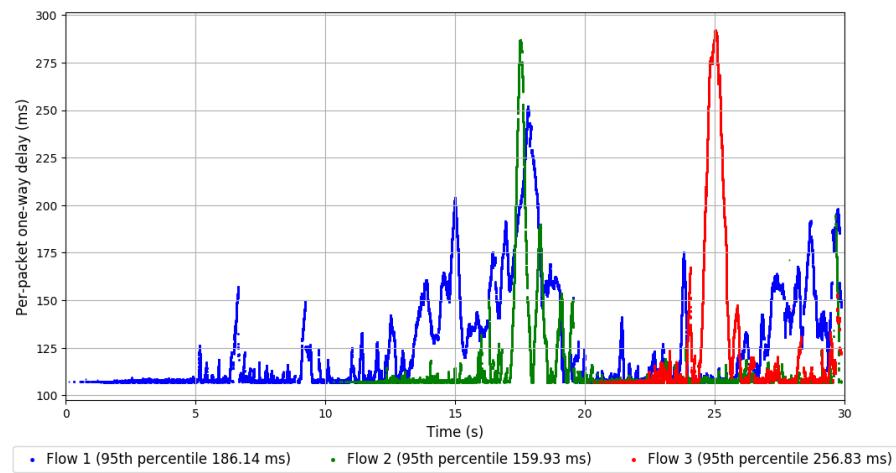
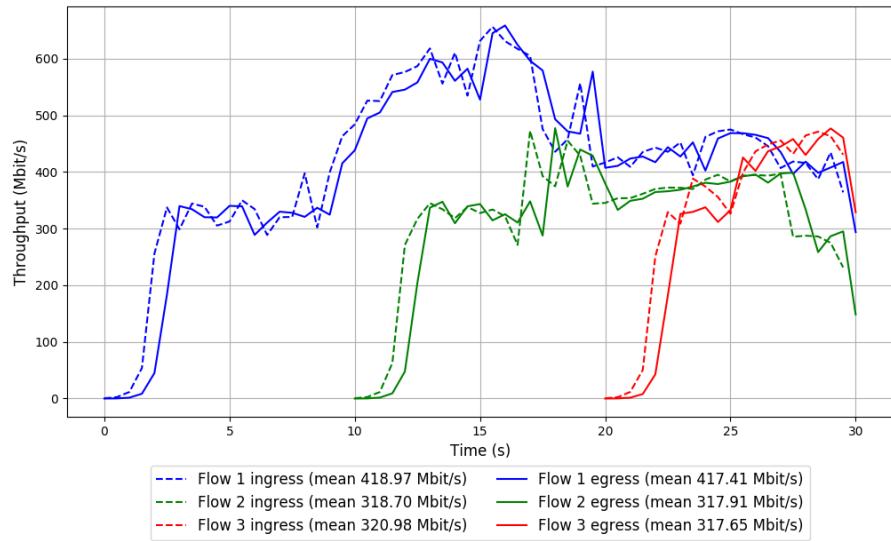


Run 2: Statistics of TCP Cubic

```
Start at: 2019-06-27 06:12:37
End at: 2019-06-27 06:13:07
Local clock offset: -0.04 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-06-27 09:17:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 732.50 Mbit/s
95th percentile per-packet one-way delay: 186.650 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 417.41 Mbit/s
95th percentile per-packet one-way delay: 186.141 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 317.91 Mbit/s
95th percentile per-packet one-way delay: 159.925 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 317.65 Mbit/s
95th percentile per-packet one-way delay: 256.833 ms
Loss rate: 3.21%
```

Run 2: Report of TCP Cubic — Data Link

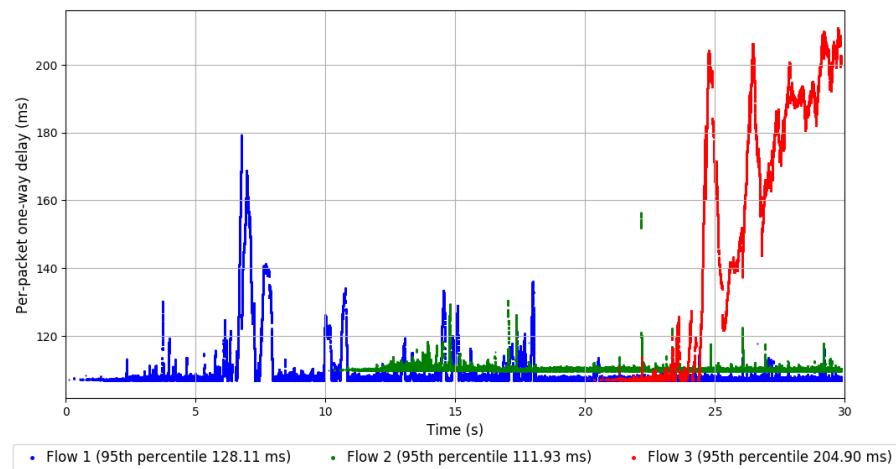
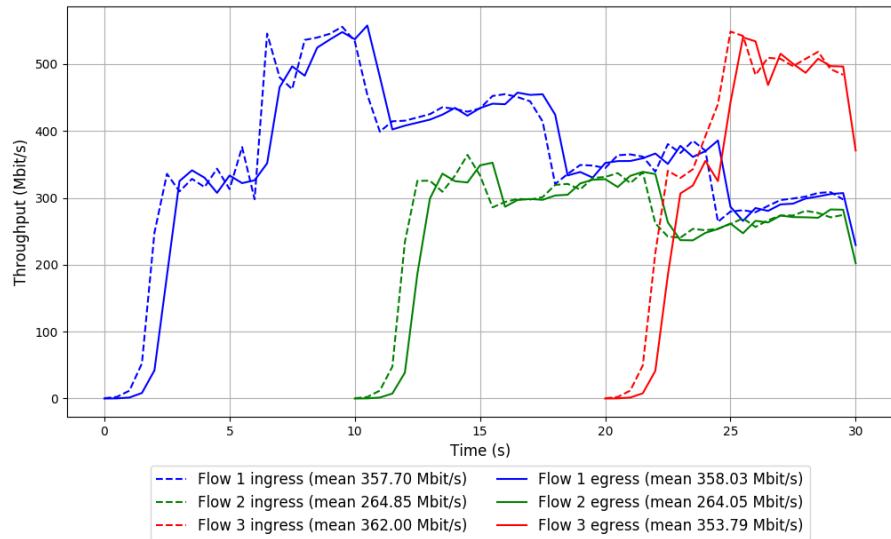


Run 3: Statistics of TCP Cubic

```
Start at: 2019-06-27 06:50:34
End at: 2019-06-27 06:51:04
Local clock offset: -0.044 ms
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-06-27 09:17:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 649.17 Mbit/s
95th percentile per-packet one-way delay: 189.293 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 358.03 Mbit/s
95th percentile per-packet one-way delay: 128.112 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 264.05 Mbit/s
95th percentile per-packet one-way delay: 111.933 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 353.79 Mbit/s
95th percentile per-packet one-way delay: 204.897 ms
Loss rate: 4.40%
```

Run 3: Report of TCP Cubic — Data Link

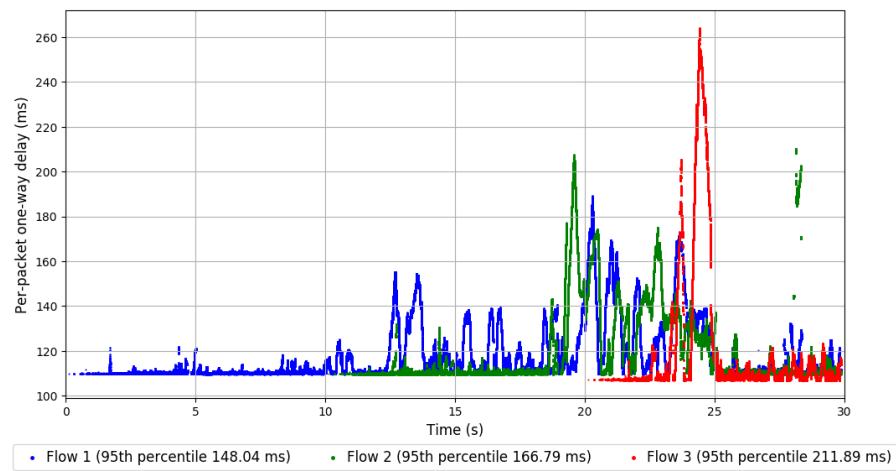
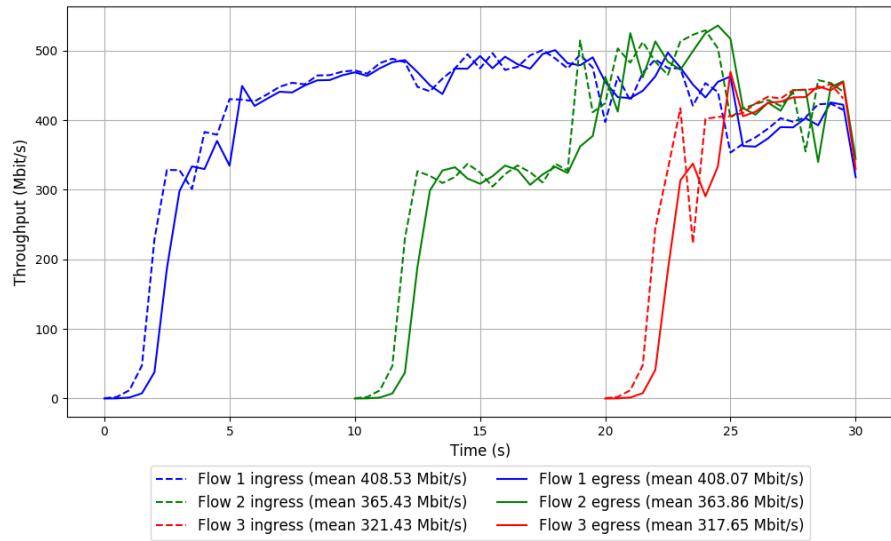


Run 4: Statistics of TCP Cubic

```
Start at: 2019-06-27 07:28:32
End at: 2019-06-27 07:29:02
Local clock offset: -0.064 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-06-27 09:17:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 753.51 Mbit/s
95th percentile per-packet one-way delay: 160.389 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 408.07 Mbit/s
95th percentile per-packet one-way delay: 148.038 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 363.86 Mbit/s
95th percentile per-packet one-way delay: 166.788 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 317.65 Mbit/s
95th percentile per-packet one-way delay: 211.893 ms
Loss rate: 3.33%
```

Run 4: Report of TCP Cubic — Data Link

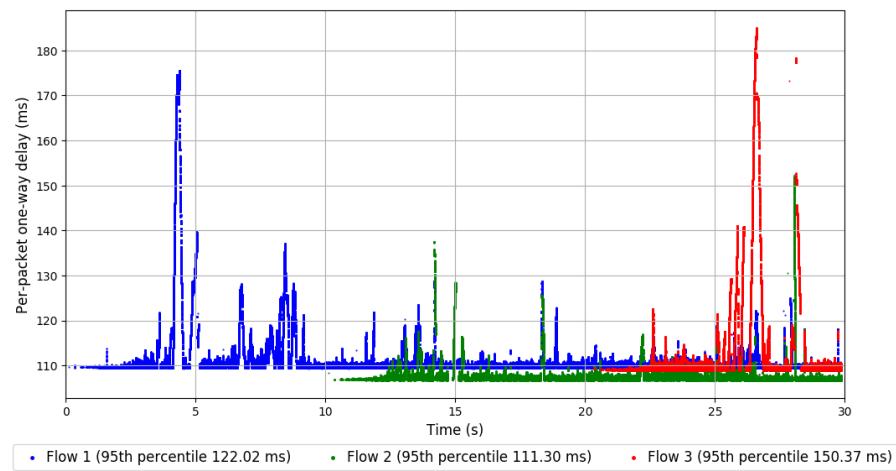
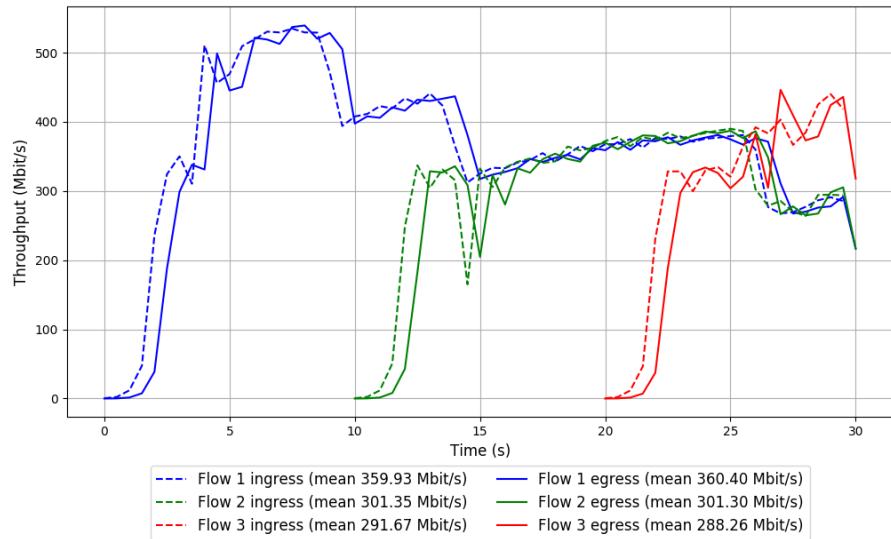


Run 5: Statistics of TCP Cubic

```
Start at: 2019-06-27 08:06:52
End at: 2019-06-27 08:07:22
Local clock offset: -0.235 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-06-27 09:17:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 654.71 Mbit/s
95th percentile per-packet one-way delay: 123.066 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 360.40 Mbit/s
95th percentile per-packet one-way delay: 122.020 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 301.30 Mbit/s
95th percentile per-packet one-way delay: 111.297 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 288.26 Mbit/s
95th percentile per-packet one-way delay: 150.369 ms
Loss rate: 3.35%
```

Run 5: Report of TCP Cubic — Data Link

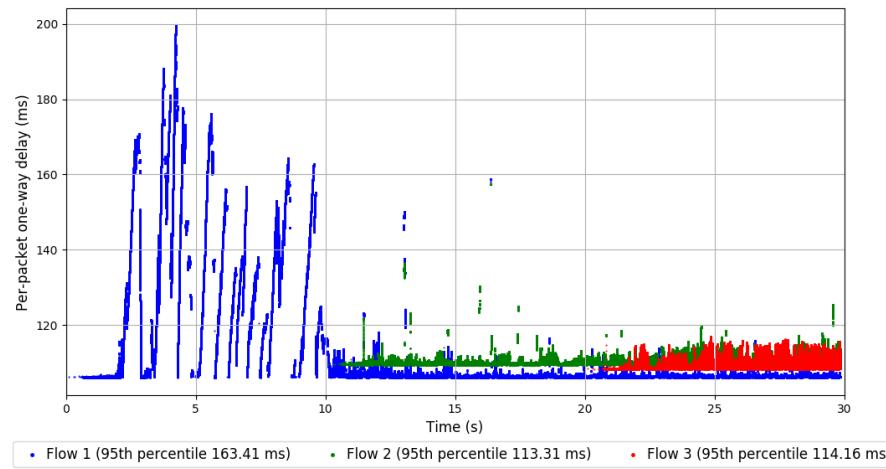
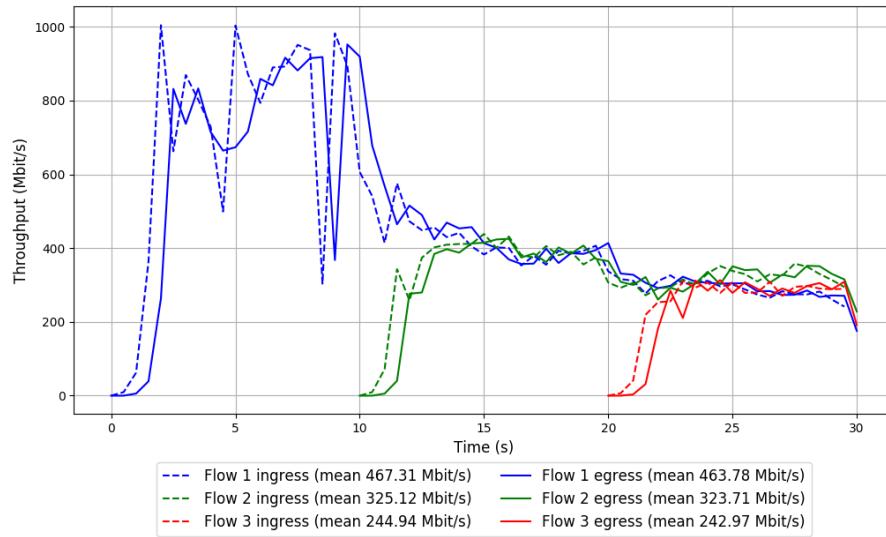


```
Run 1: Statistics of FillP

Start at: 2019-06-27 05:49:10
End at: 2019-06-27 05:49:40
Local clock offset: -0.819 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-06-27 09:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 757.88 Mbit/s
95th percentile per-packet one-way delay: 155.700 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 463.78 Mbit/s
95th percentile per-packet one-way delay: 163.411 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 323.71 Mbit/s
95th percentile per-packet one-way delay: 113.310 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 242.97 Mbit/s
95th percentile per-packet one-way delay: 114.159 ms
Loss rate: 2.93%
```

Run 1: Report of FillP — Data Link

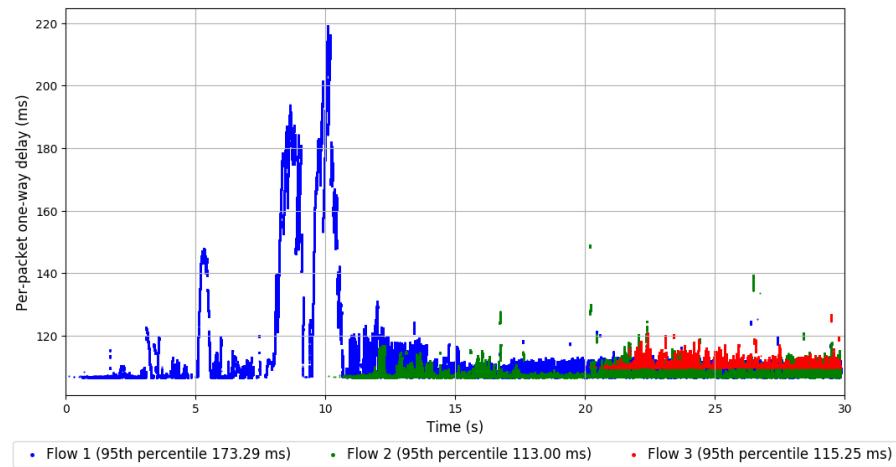
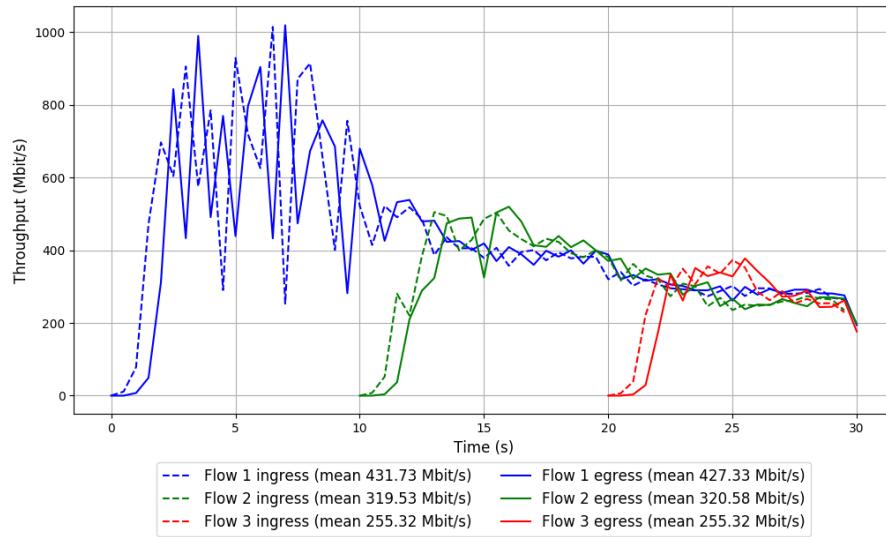


Run 2: Statistics of FillP

```
Start at: 2019-06-27 06:27:33
End at: 2019-06-27 06:28:03
Local clock offset: -0.058 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-06-27 09:30:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 723.03 Mbit/s
95th percentile per-packet one-way delay: 153.995 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 427.33 Mbit/s
95th percentile per-packet one-way delay: 173.294 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 320.58 Mbit/s
95th percentile per-packet one-way delay: 112.997 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 255.32 Mbit/s
95th percentile per-packet one-way delay: 115.245 ms
Loss rate: 2.18%
```

Run 2: Report of FillP — Data Link

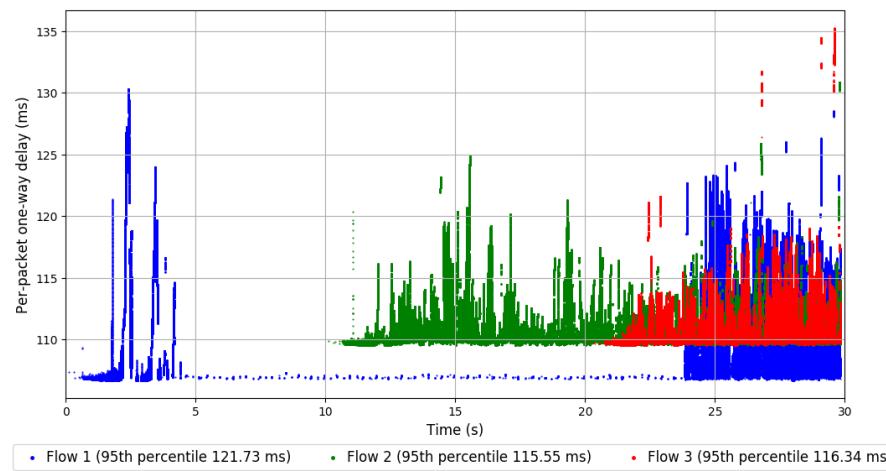
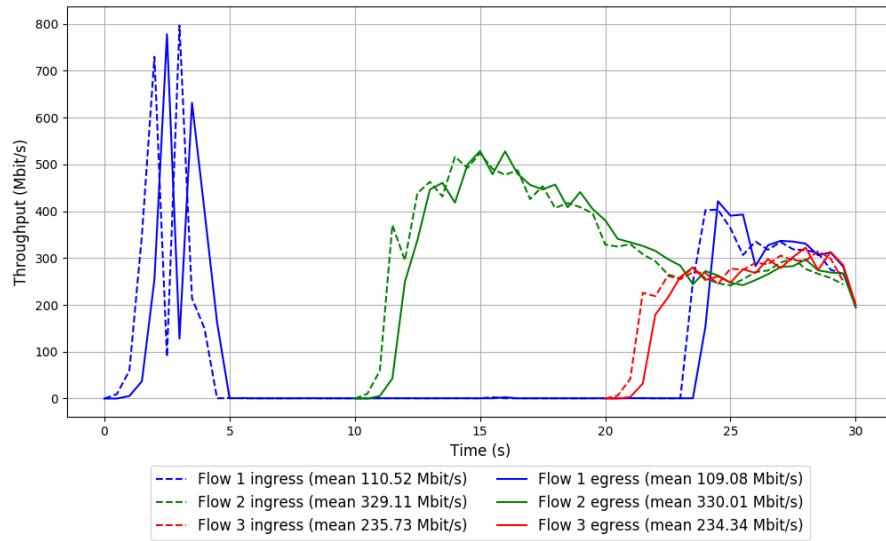


Run 3: Statistics of FillP

```
Start at: 2019-06-27 07:05:24
End at: 2019-06-27 07:05:54
Local clock offset: 0.047 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-06-27 09:30:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 404.50 Mbit/s
95th percentile per-packet one-way delay: 117.575 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 109.08 Mbit/s
95th percentile per-packet one-way delay: 121.732 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 330.01 Mbit/s
95th percentile per-packet one-way delay: 115.550 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 234.34 Mbit/s
95th percentile per-packet one-way delay: 116.343 ms
Loss rate: 2.76%
```

Run 3: Report of FillP — Data Link

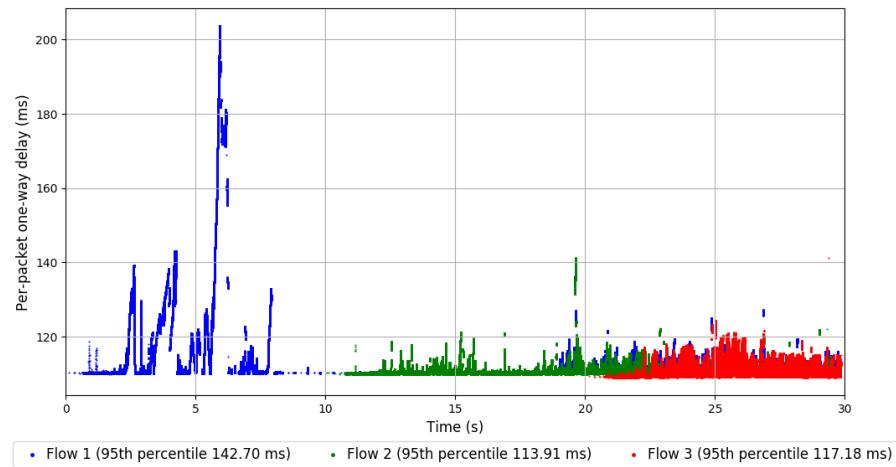
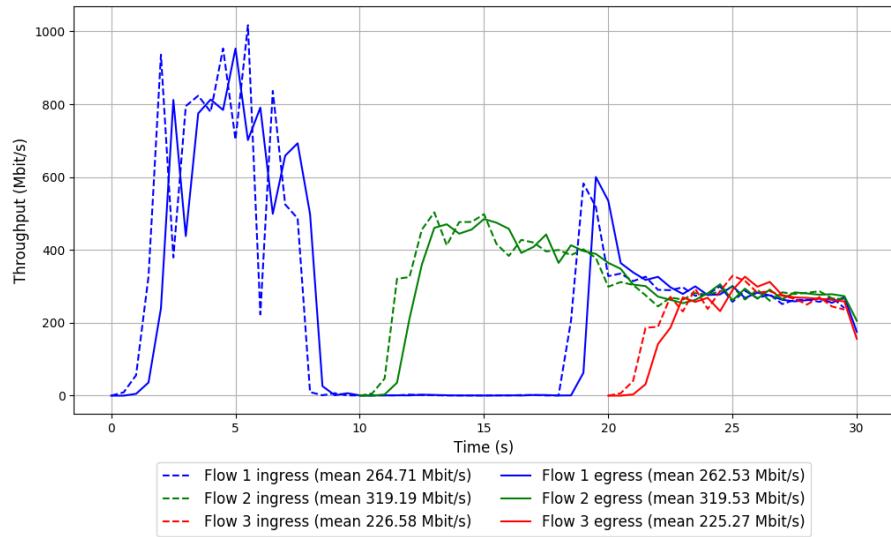


Run 4: Statistics of FillP

```
Start at: 2019-06-27 07:43:34
End at: 2019-06-27 07:44:04
Local clock offset: 0.086 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-06-27 09:30:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 547.72 Mbit/s
95th percentile per-packet one-way delay: 130.438 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 262.53 Mbit/s
95th percentile per-packet one-way delay: 142.699 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 319.53 Mbit/s
95th percentile per-packet one-way delay: 113.909 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 225.27 Mbit/s
95th percentile per-packet one-way delay: 117.183 ms
Loss rate: 2.74%
```

Run 4: Report of FillP — Data Link

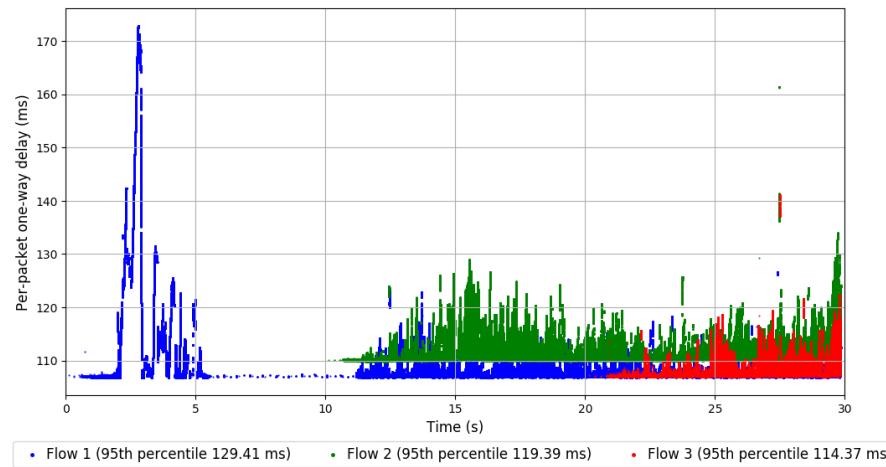
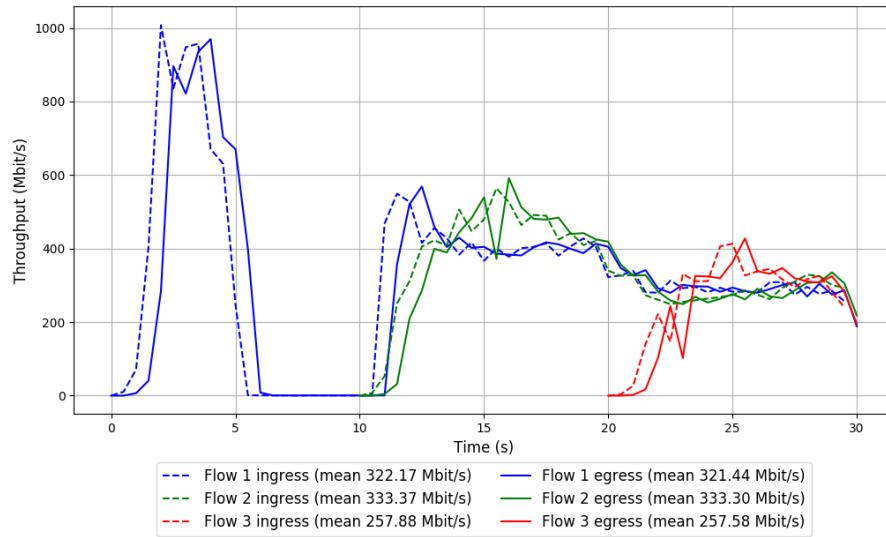


Run 5: Statistics of FillP

```
Start at: 2019-06-27 08:21:51
End at: 2019-06-27 08:22:21
Local clock offset: -0.106 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-06-27 09:30:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 626.22 Mbit/s
95th percentile per-packet one-way delay: 123.907 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 321.44 Mbit/s
95th percentile per-packet one-way delay: 129.414 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 333.30 Mbit/s
95th percentile per-packet one-way delay: 119.391 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 257.58 Mbit/s
95th percentile per-packet one-way delay: 114.366 ms
Loss rate: 2.23%
```

Run 5: Report of FillP — Data Link

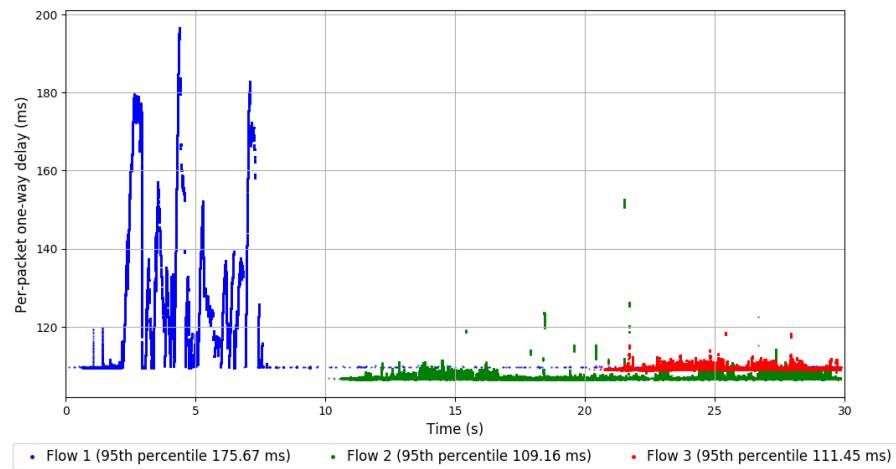
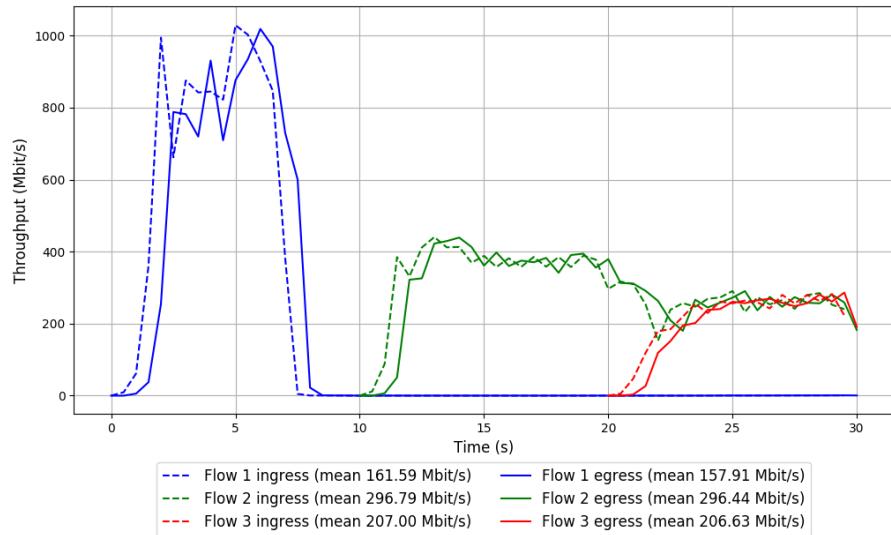


Run 1: Statistics of FillP-Sheep

```
Start at: 2019-06-27 05:31:35
End at: 2019-06-27 05:32:05
Local clock offset: -0.18 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-06-27 09:30:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 421.77 Mbit/s
95th percentile per-packet one-way delay: 165.212 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 157.91 Mbit/s
95th percentile per-packet one-way delay: 175.672 ms
Loss rate: 2.98%
-- Flow 2:
Average throughput: 296.44 Mbit/s
95th percentile per-packet one-way delay: 109.156 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 206.63 Mbit/s
95th percentile per-packet one-way delay: 111.451 ms
Loss rate: 2.36%
```

Run 1: Report of FillP-Sheep — Data Link

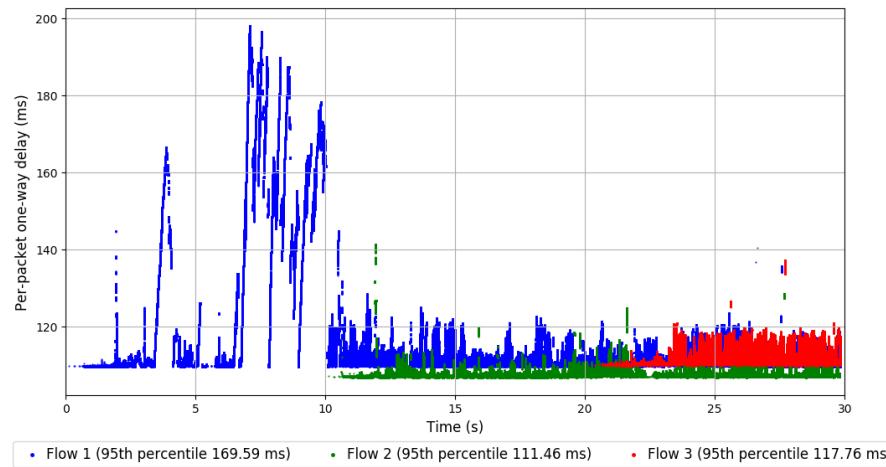
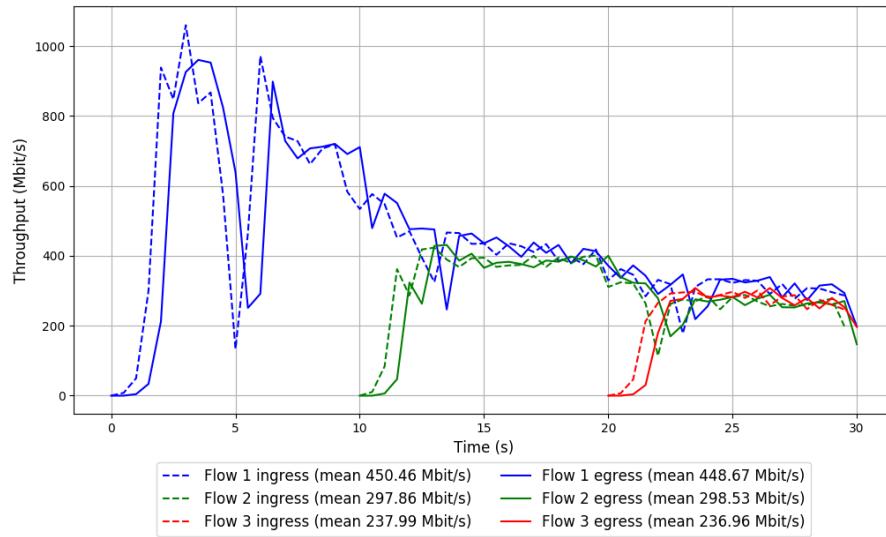


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-06-27 06:09:13
End at: 2019-06-27 06:09:43
Local clock offset: -0.161 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-06-27 09:32:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 723.93 Mbit/s
95th percentile per-packet one-way delay: 162.466 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 448.67 Mbit/s
95th percentile per-packet one-way delay: 169.592 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 298.53 Mbit/s
95th percentile per-packet one-way delay: 111.462 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 236.96 Mbit/s
95th percentile per-packet one-way delay: 117.759 ms
Loss rate: 2.55%
```

Run 2: Report of FillP-Sheep — Data Link

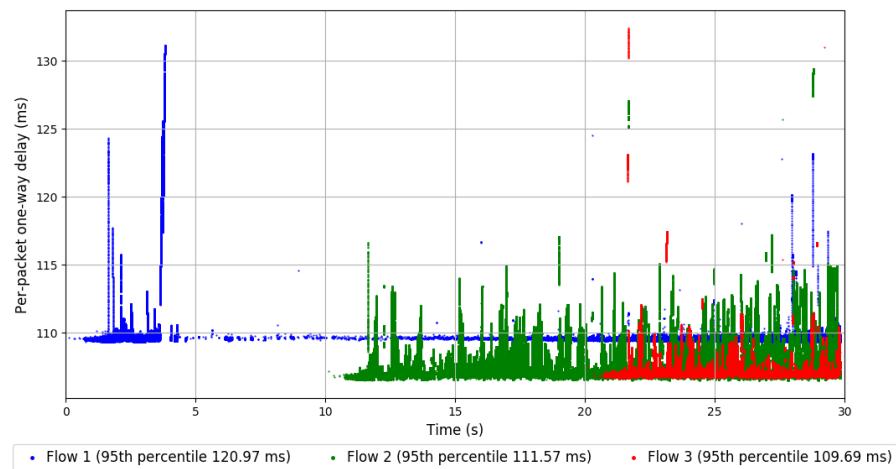
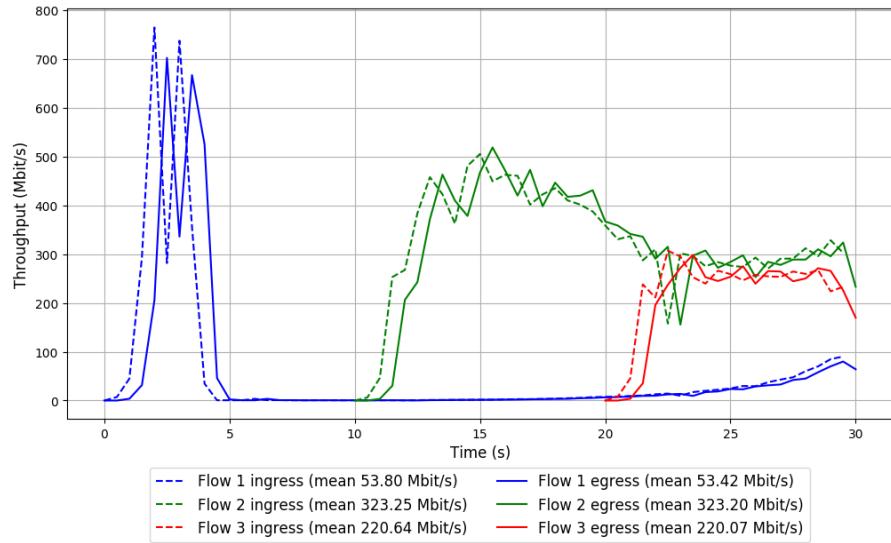


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-06-27 06:47:24
End at: 2019-06-27 06:47:54
Local clock offset: -0.175 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-06-27 09:32:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.44 Mbit/s
95th percentile per-packet one-way delay: 111.714 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 53.42 Mbit/s
95th percentile per-packet one-way delay: 120.967 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 323.20 Mbit/s
95th percentile per-packet one-way delay: 111.566 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 220.07 Mbit/s
95th percentile per-packet one-way delay: 109.688 ms
Loss rate: 2.68%
```

Run 3: Report of FillP-Sheep — Data Link

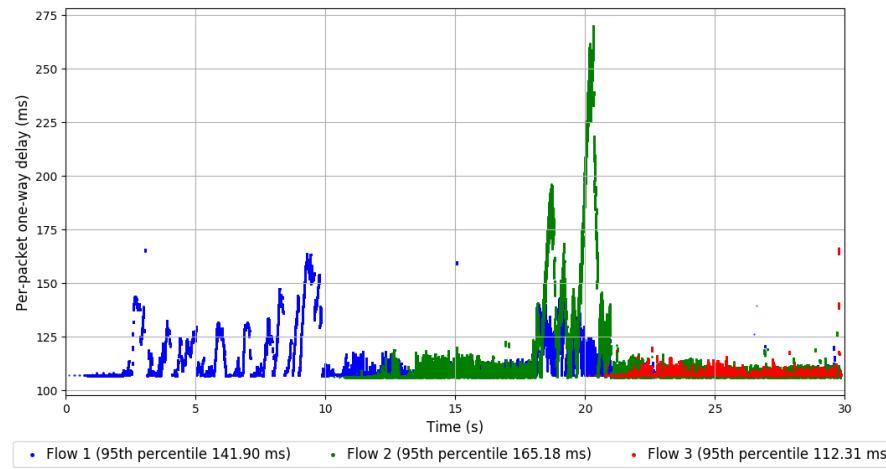
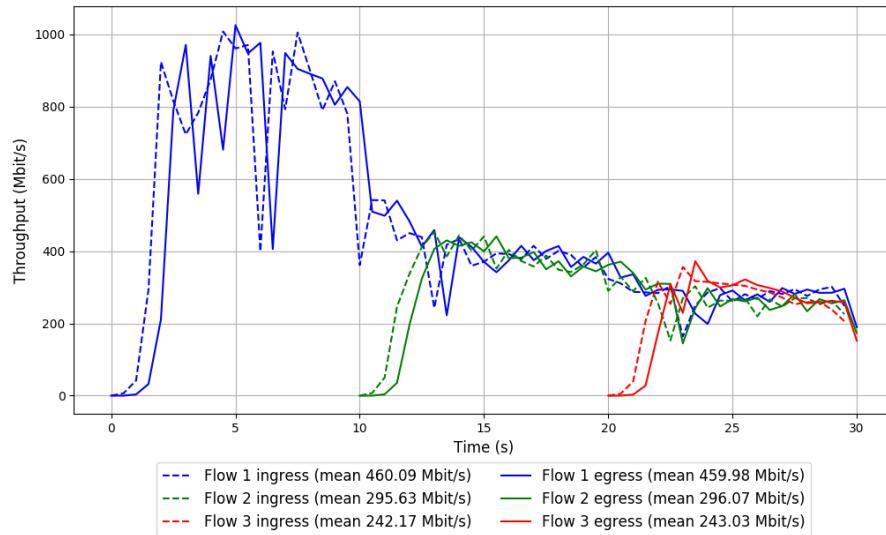


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-06-27 07:24:54
End at: 2019-06-27 07:25:24
Local clock offset: 0.042 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-06-27 09:39:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 735.23 Mbit/s
95th percentile per-packet one-way delay: 142.713 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 459.98 Mbit/s
95th percentile per-packet one-way delay: 141.902 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 296.07 Mbit/s
95th percentile per-packet one-way delay: 165.181 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 243.03 Mbit/s
95th percentile per-packet one-way delay: 112.309 ms
Loss rate: 1.85%
```

Run 4: Report of FillP-Sheep — Data Link

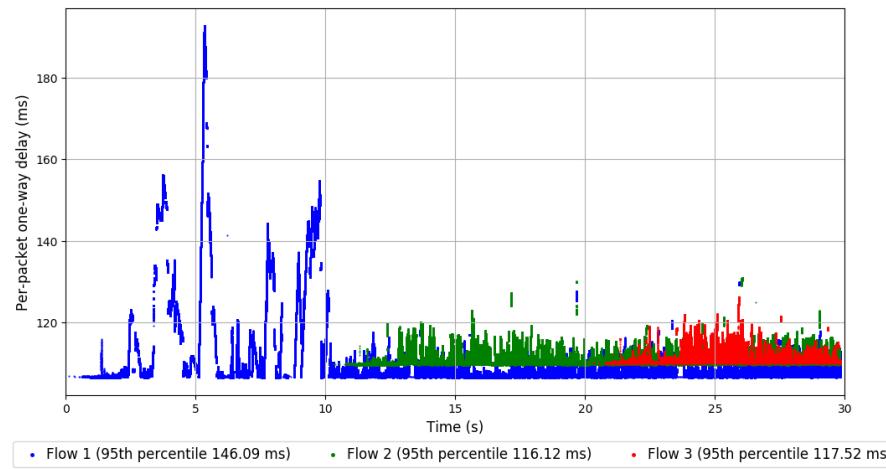
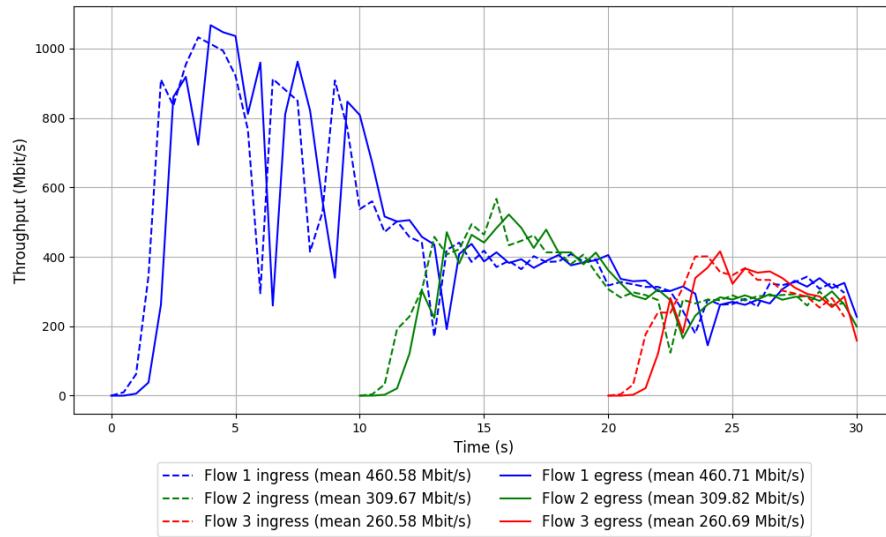


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-06-27 08:03:17
End at: 2019-06-27 08:03:47
Local clock offset: -0.168 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-06-27 09:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 751.18 Mbit/s
95th percentile per-packet one-way delay: 139.789 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 460.71 Mbit/s
95th percentile per-packet one-way delay: 146.093 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 309.82 Mbit/s
95th percentile per-packet one-way delay: 116.118 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 260.69 Mbit/s
95th percentile per-packet one-way delay: 117.523 ms
Loss rate: 2.41%
```

Run 5: Report of FillP-Sheep — Data Link

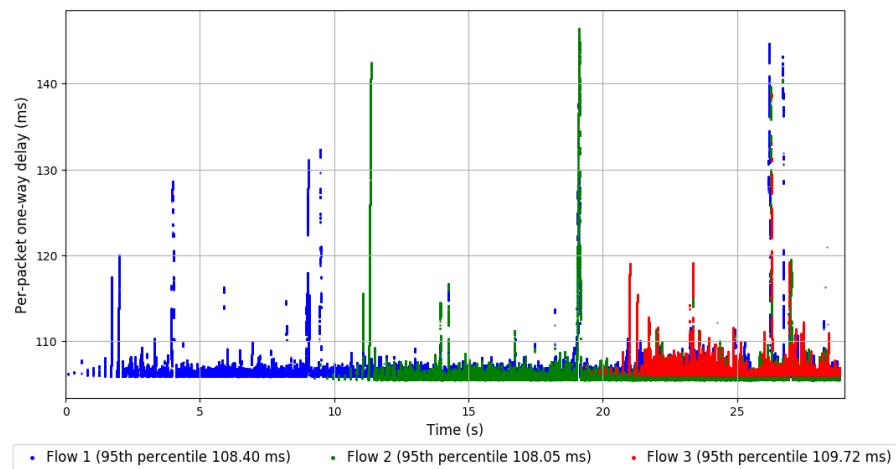
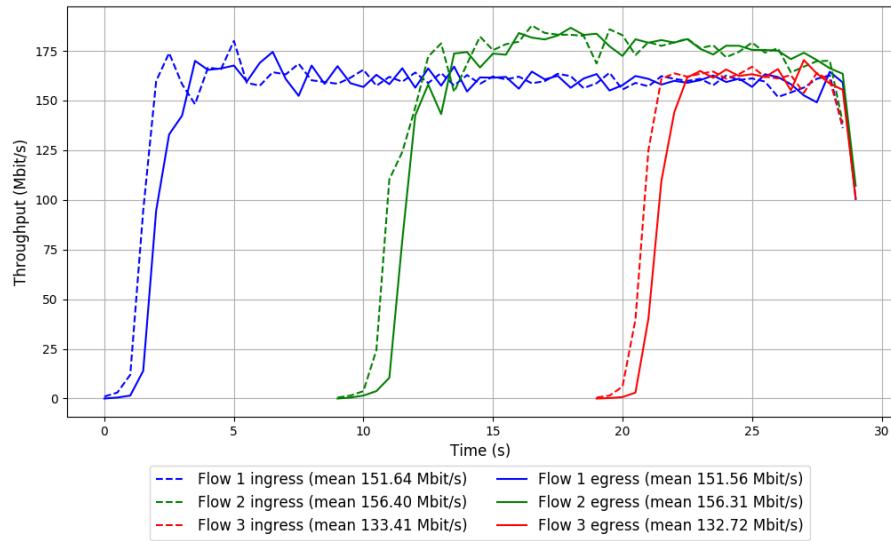


Run 1: Statistics of Indigo

```
Start at: 2019-06-27 05:52:56
End at: 2019-06-27 05:53:26
Local clock offset: -0.892 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-06-27 09:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.80 Mbit/s
95th percentile per-packet one-way delay: 108.617 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 151.56 Mbit/s
95th percentile per-packet one-way delay: 108.403 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 156.31 Mbit/s
95th percentile per-packet one-way delay: 108.050 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 132.72 Mbit/s
95th percentile per-packet one-way delay: 109.717 ms
Loss rate: 2.77%
```

Run 1: Report of Indigo — Data Link

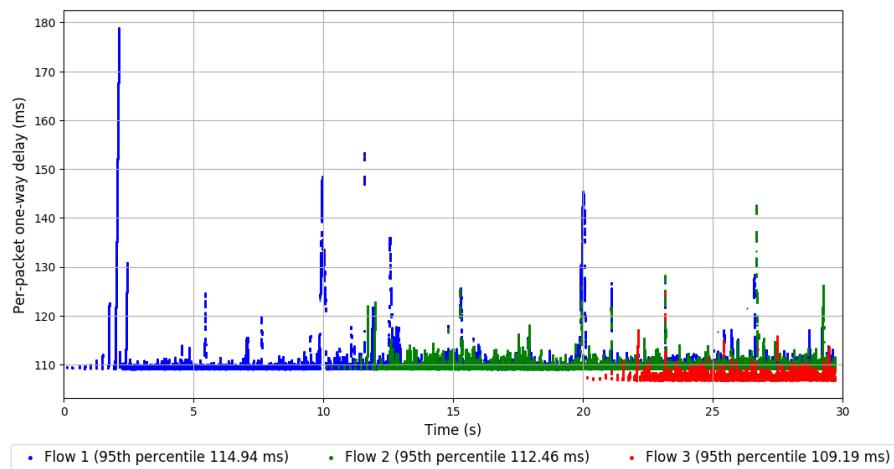
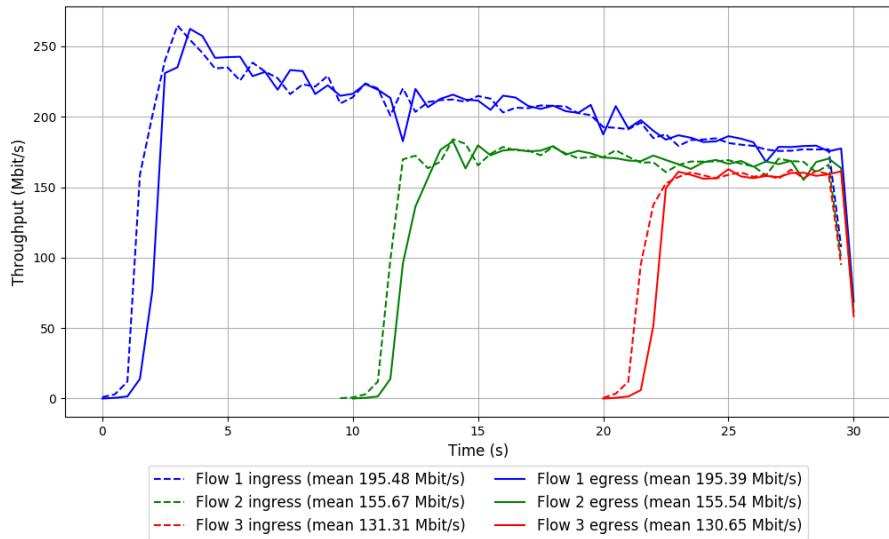


Run 2: Statistics of Indigo

```
Start at: 2019-06-27 06:31:15
End at: 2019-06-27 06:31:45
Local clock offset: -0.064 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-06-27 09:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.47 Mbit/s
95th percentile per-packet one-way delay: 112.996 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 195.39 Mbit/s
95th percentile per-packet one-way delay: 114.943 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 155.54 Mbit/s
95th percentile per-packet one-way delay: 112.458 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 130.65 Mbit/s
95th percentile per-packet one-way delay: 109.193 ms
Loss rate: 2.72%
```

Run 2: Report of Indigo — Data Link

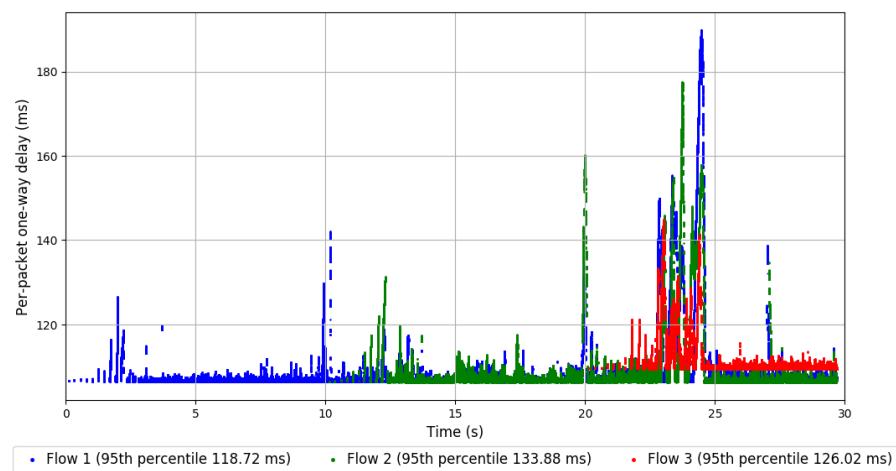
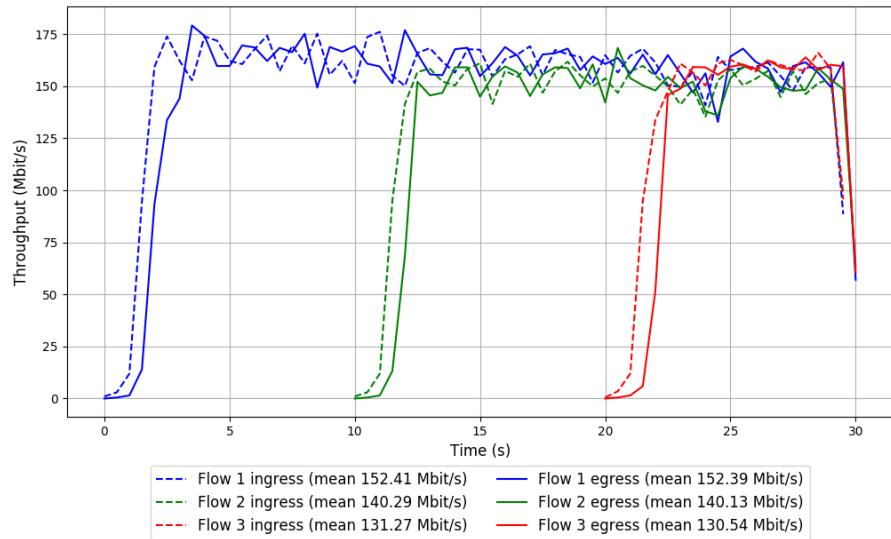


Run 3: Statistics of Indigo

```
Start at: 2019-06-27 07:08:43
End at: 2019-06-27 07:09:13
Local clock offset: 0.036 ms
Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2019-06-27 09:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.04 Mbit/s
95th percentile per-packet one-way delay: 125.088 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 152.39 Mbit/s
95th percentile per-packet one-way delay: 118.725 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 140.13 Mbit/s
95th percentile per-packet one-way delay: 133.883 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 130.54 Mbit/s
95th percentile per-packet one-way delay: 126.018 ms
Loss rate: 2.80%
```

Run 3: Report of Indigo — Data Link

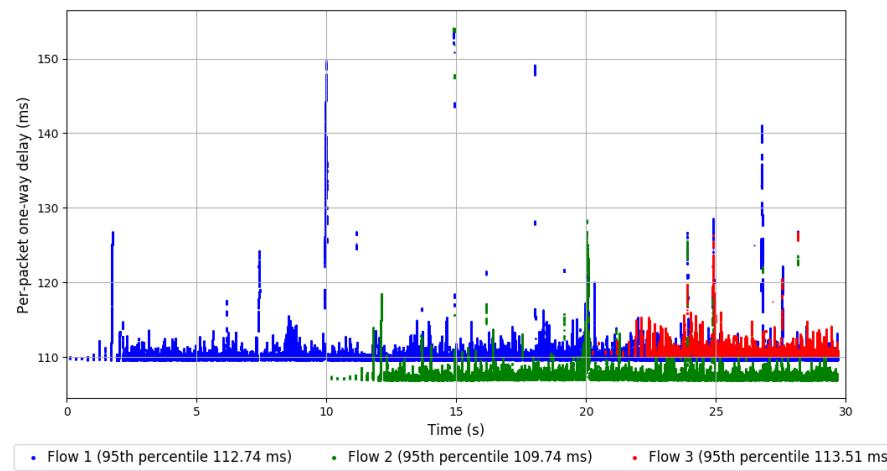
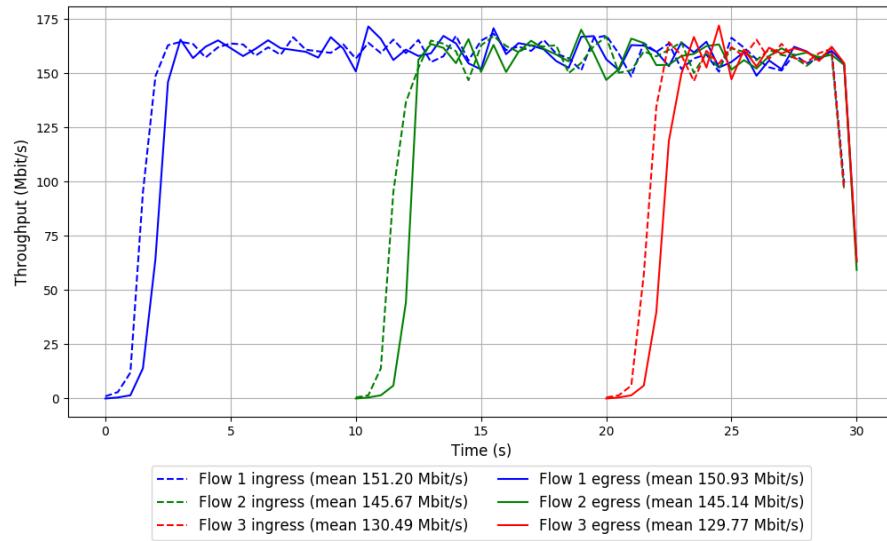


Run 4: Statistics of Indigo

```
Start at: 2019-06-27 07:47:08
End at: 2019-06-27 07:47:38
Local clock offset: -0.069 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-06-27 09:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.93 Mbit/s
95th percentile per-packet one-way delay: 112.519 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 150.93 Mbit/s
95th percentile per-packet one-way delay: 112.744 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 145.14 Mbit/s
95th percentile per-packet one-way delay: 109.740 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 129.77 Mbit/s
95th percentile per-packet one-way delay: 113.509 ms
Loss rate: 2.81%
```

Run 4: Report of Indigo — Data Link

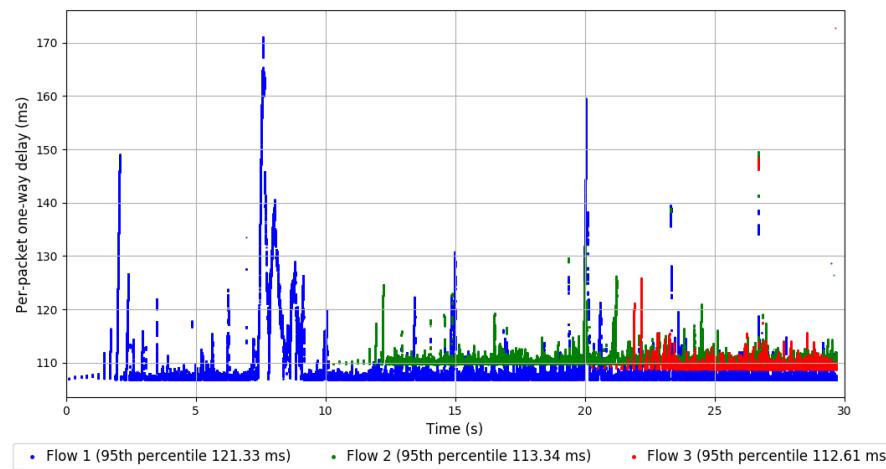
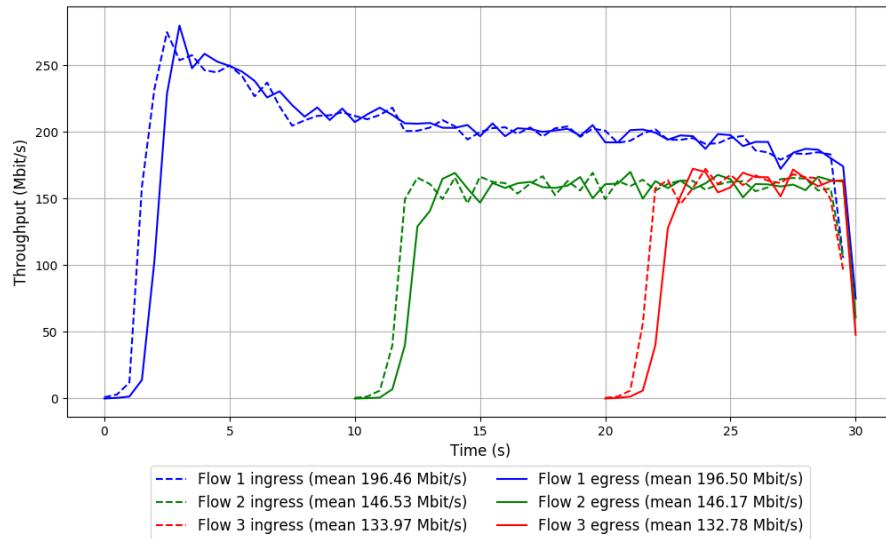


Run 5: Statistics of Indigo

```
Start at: 2019-06-27 08:25:30
End at: 2019-06-27 08:26:00
Local clock offset: 0.028 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-06-27 09:43:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.58 Mbit/s
95th percentile per-packet one-way delay: 116.635 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 196.50 Mbit/s
95th percentile per-packet one-way delay: 121.335 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 146.17 Mbit/s
95th percentile per-packet one-way delay: 113.344 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 132.78 Mbit/s
95th percentile per-packet one-way delay: 112.609 ms
Loss rate: 3.15%
```

Run 5: Report of Indigo — Data Link

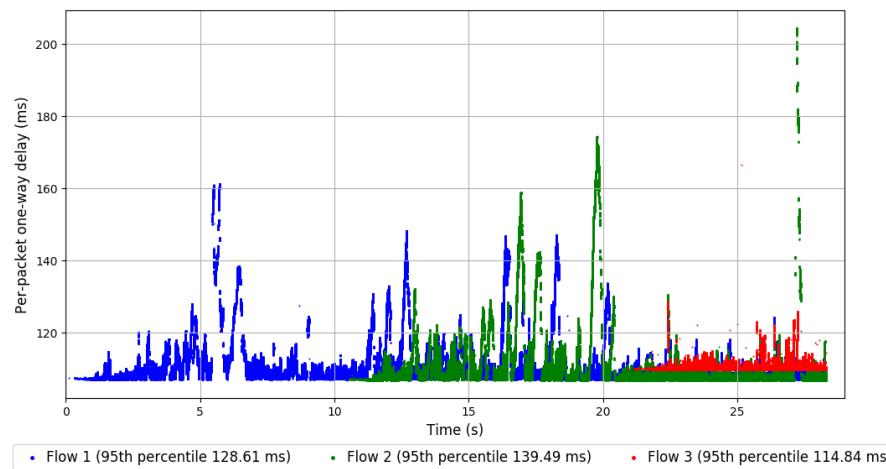
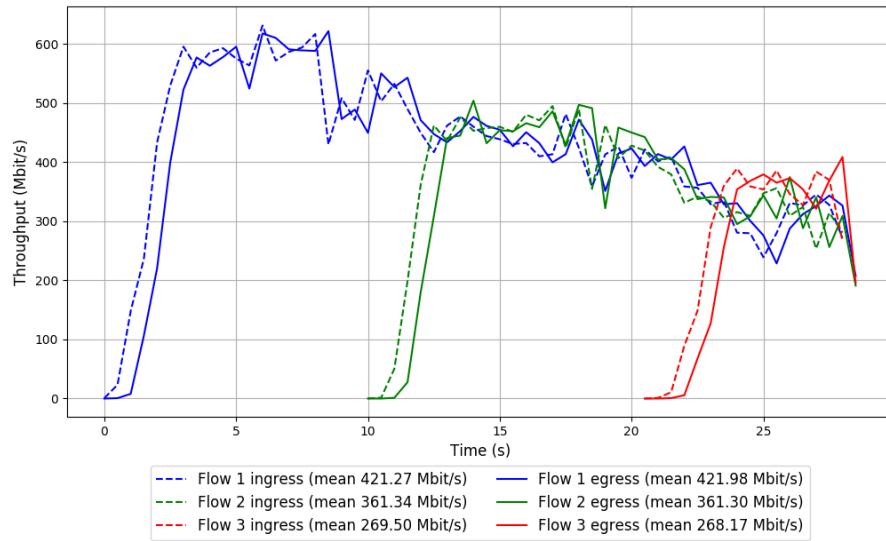


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 05:23:46
End at: 2019-06-27 05:24:16
Local clock offset: 0.192 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-06-27 09:47:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 721.90 Mbit/s
95th percentile per-packet one-way delay: 130.123 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 421.98 Mbit/s
95th percentile per-packet one-way delay: 128.612 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 361.30 Mbit/s
95th percentile per-packet one-way delay: 139.487 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 268.17 Mbit/s
95th percentile per-packet one-way delay: 114.837 ms
Loss rate: 3.31%
```

Run 1: Report of Indigo-MusesC3 — Data Link

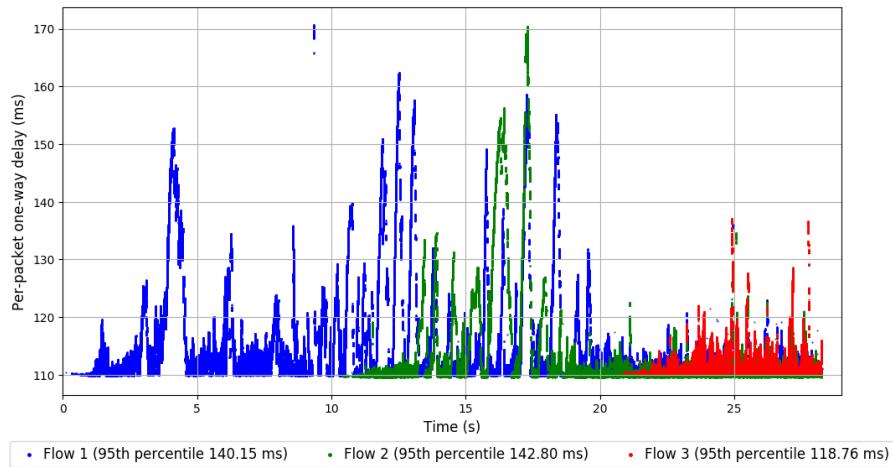
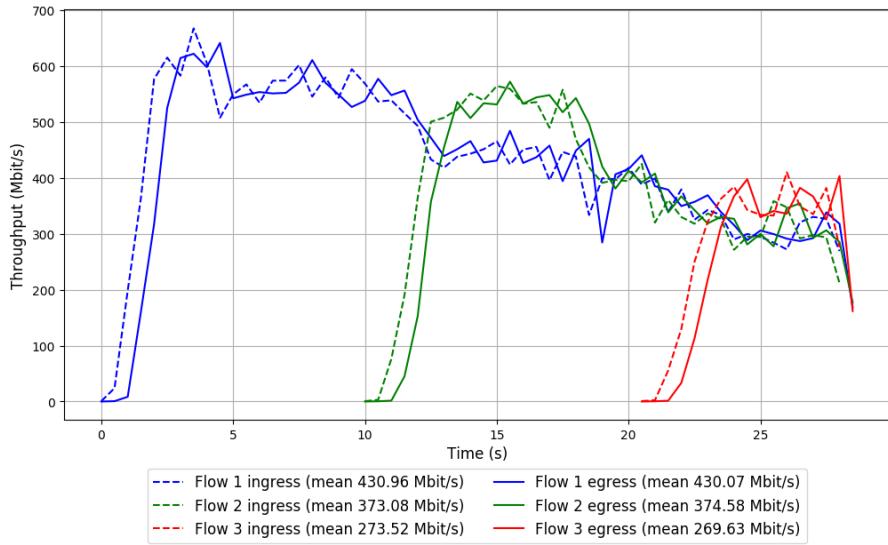


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 06:01:16
End at: 2019-06-27 06:01:46
Local clock offset: -0.095 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-06-27 09:50:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 742.88 Mbit/s
95th percentile per-packet one-way delay: 139.104 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 430.07 Mbit/s
95th percentile per-packet one-way delay: 140.150 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 374.58 Mbit/s
95th percentile per-packet one-way delay: 142.803 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 269.63 Mbit/s
95th percentile per-packet one-way delay: 118.760 ms
Loss rate: 4.20%
```

Run 2: Report of Indigo-MusesC3 — Data Link

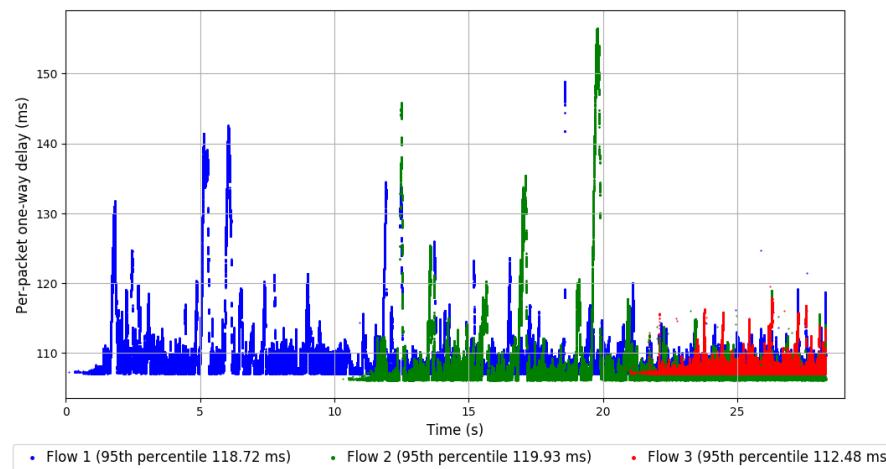
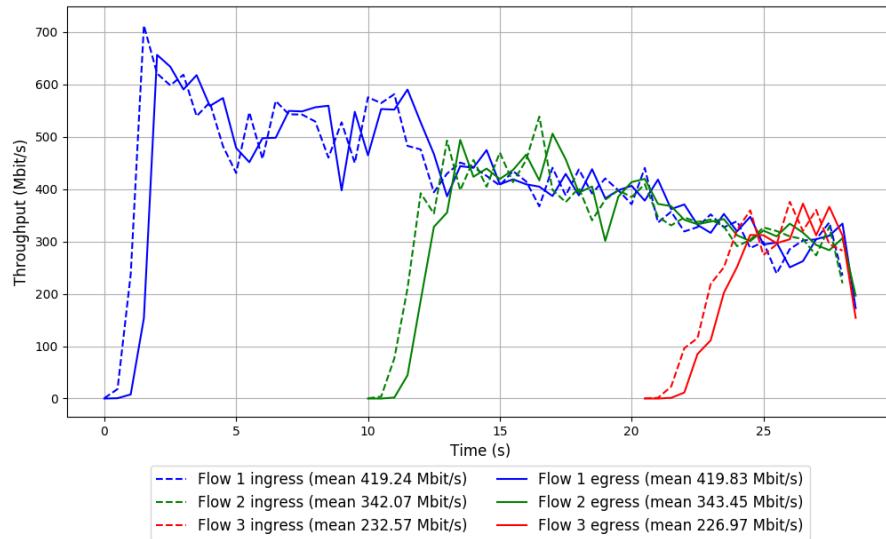


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 06:39:36
End at: 2019-06-27 06:40:07
Local clock offset: 0.007 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-06-27 09:51:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 699.44 Mbit/s
95th percentile per-packet one-way delay: 118.353 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 419.83 Mbit/s
95th percentile per-packet one-way delay: 118.725 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 343.45 Mbit/s
95th percentile per-packet one-way delay: 119.933 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 226.97 Mbit/s
95th percentile per-packet one-way delay: 112.485 ms
Loss rate: 5.19%
```

Run 3: Report of Indigo-MusesC3 — Data Link

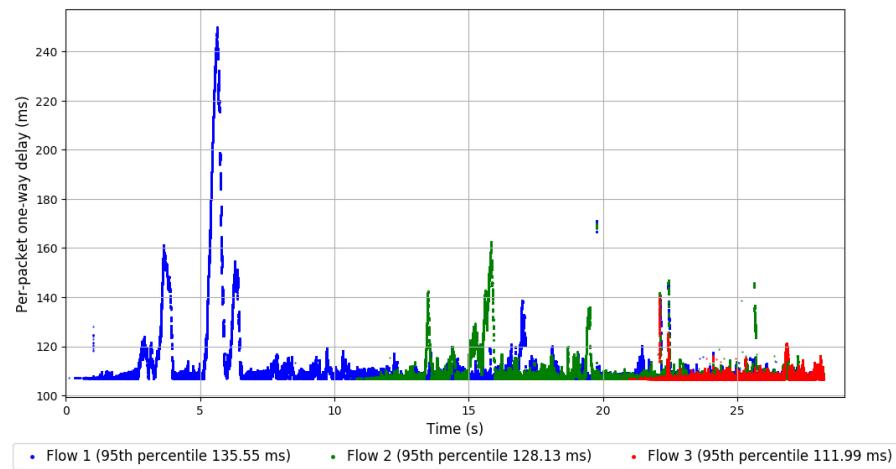
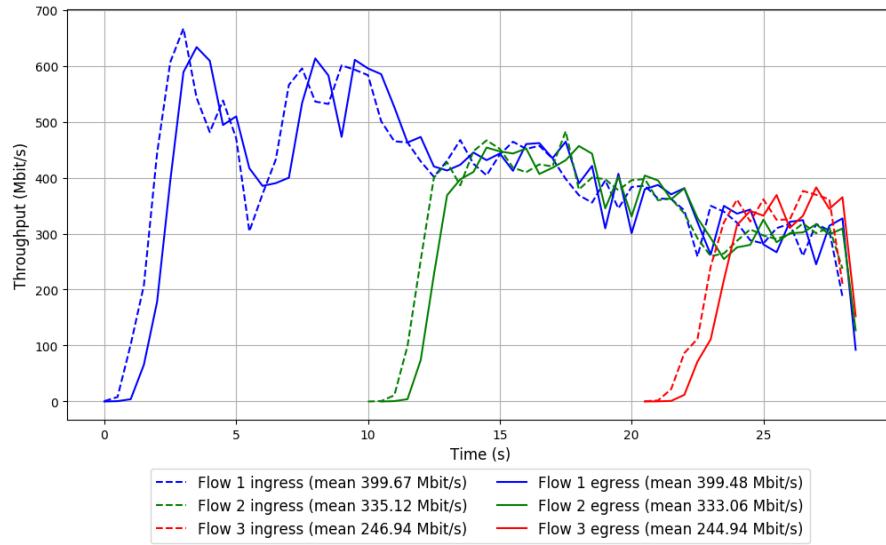


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 07:17:02
End at: 2019-06-27 07:17:32
Local clock offset: -0.003 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-06-27 09:52:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 673.37 Mbit/s
95th percentile per-packet one-way delay: 128.133 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 399.48 Mbit/s
95th percentile per-packet one-way delay: 135.550 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 333.06 Mbit/s
95th percentile per-packet one-way delay: 128.131 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 244.94 Mbit/s
95th percentile per-packet one-way delay: 111.987 ms
Loss rate: 3.64%
```

Run 4: Report of Indigo-MusesC3 — Data Link

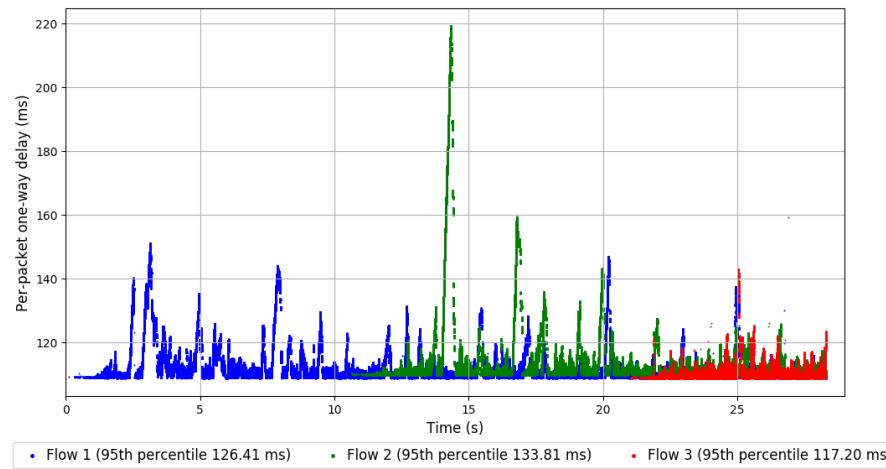
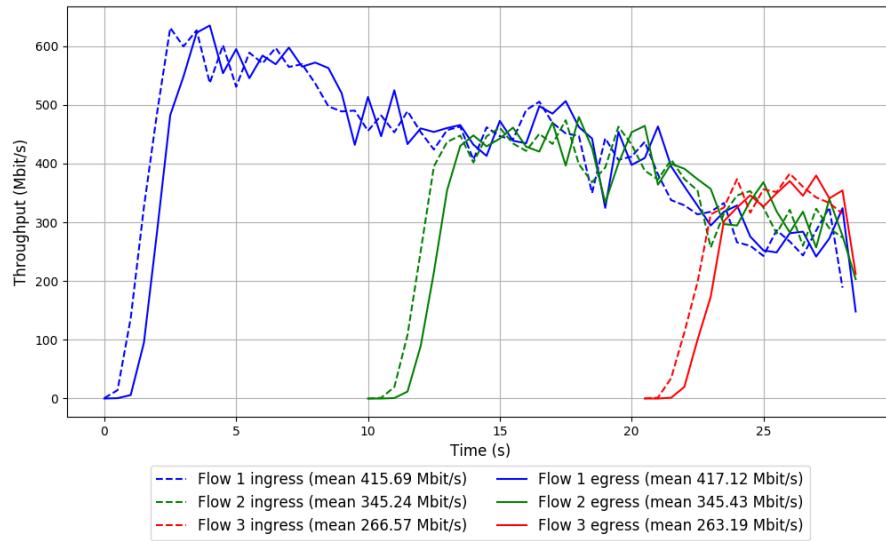


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-06-27 07:55:23
End at: 2019-06-27 07:55:53
Local clock offset: -0.152 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-06-27 09:53:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 705.87 Mbit/s
95th percentile per-packet one-way delay: 127.483 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 417.12 Mbit/s
95th percentile per-packet one-way delay: 126.408 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 345.43 Mbit/s
95th percentile per-packet one-way delay: 133.806 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 263.19 Mbit/s
95th percentile per-packet one-way delay: 117.201 ms
Loss rate: 4.15%
```

Run 5: Report of Indigo-MusesC3 — Data Link

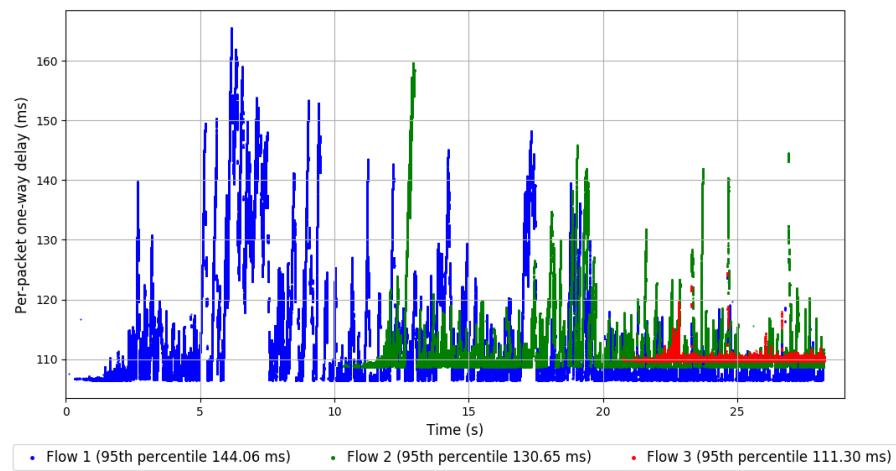
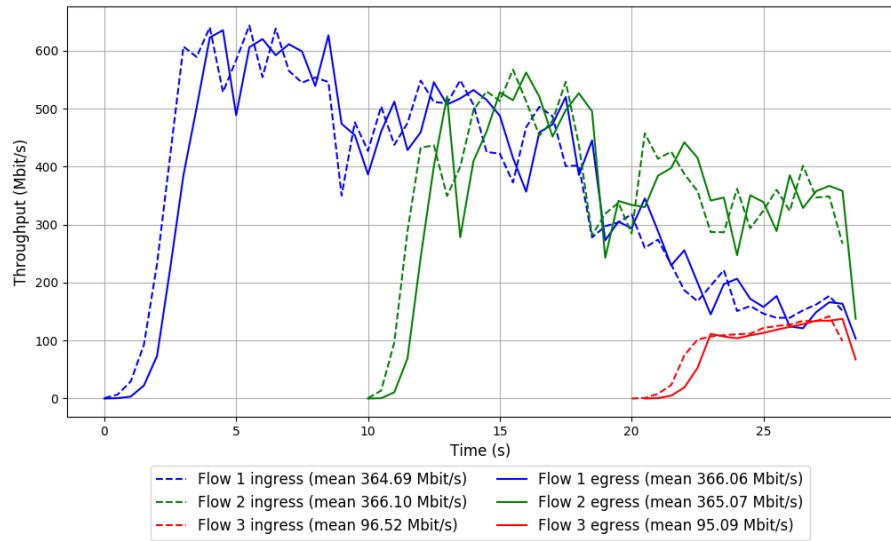


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 05:41:43
End at: 2019-06-27 05:42:13
Local clock offset: -0.286 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-06-27 09:53:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 626.74 Mbit/s
95th percentile per-packet one-way delay: 140.041 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 366.06 Mbit/s
95th percentile per-packet one-way delay: 144.059 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 365.07 Mbit/s
95th percentile per-packet one-way delay: 130.646 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 111.296 ms
Loss rate: 4.18%
```

Run 1: Report of Indigo-MusesC5 — Data Link

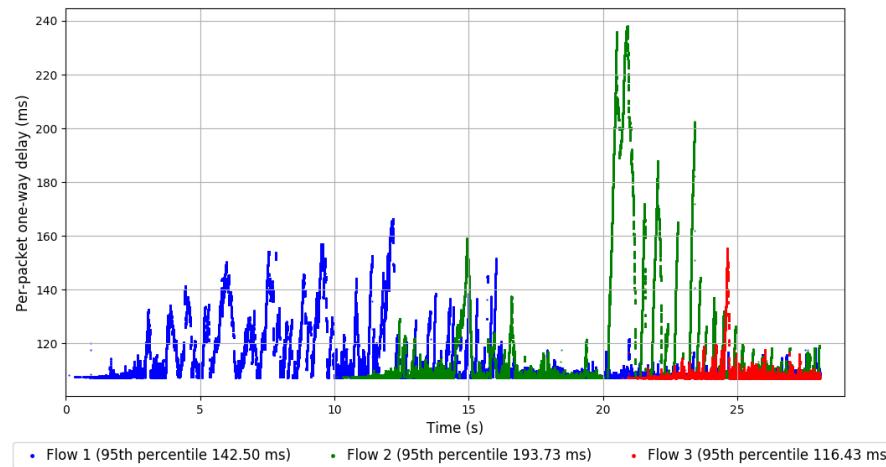
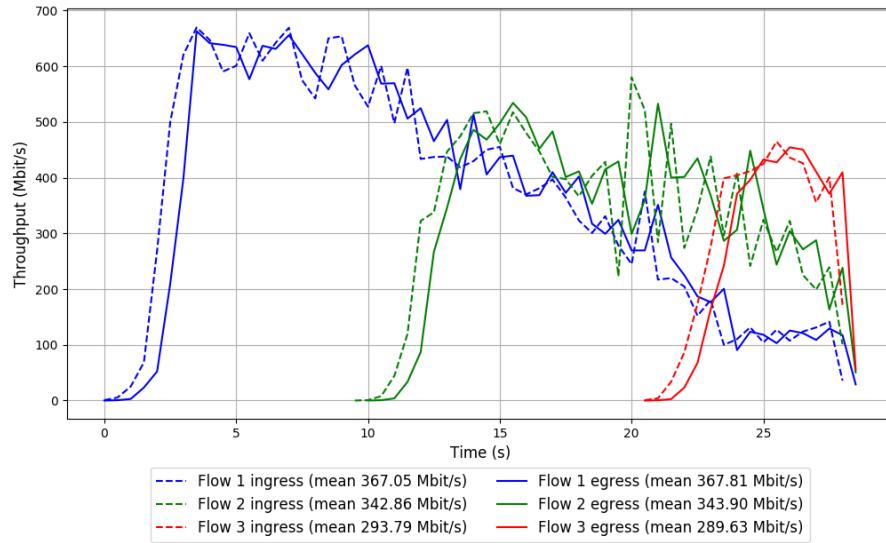


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 06:19:47
End at: 2019-06-27 06:20:17
Local clock offset: 0.379 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-06-27 09:54:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 665.17 Mbit/s
95th percentile per-packet one-way delay: 151.356 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 367.81 Mbit/s
95th percentile per-packet one-way delay: 142.498 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 343.90 Mbit/s
95th percentile per-packet one-way delay: 193.728 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 289.63 Mbit/s
95th percentile per-packet one-way delay: 116.433 ms
Loss rate: 4.25%
```

Run 2: Report of Indigo-MusesC5 — Data Link

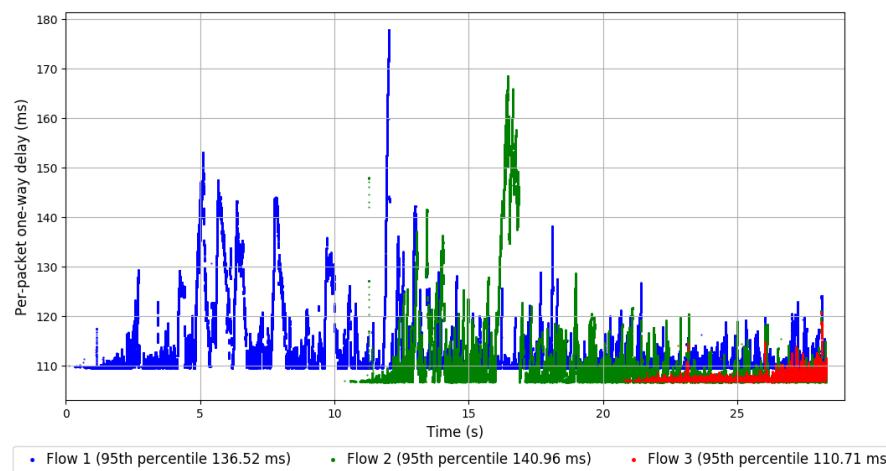
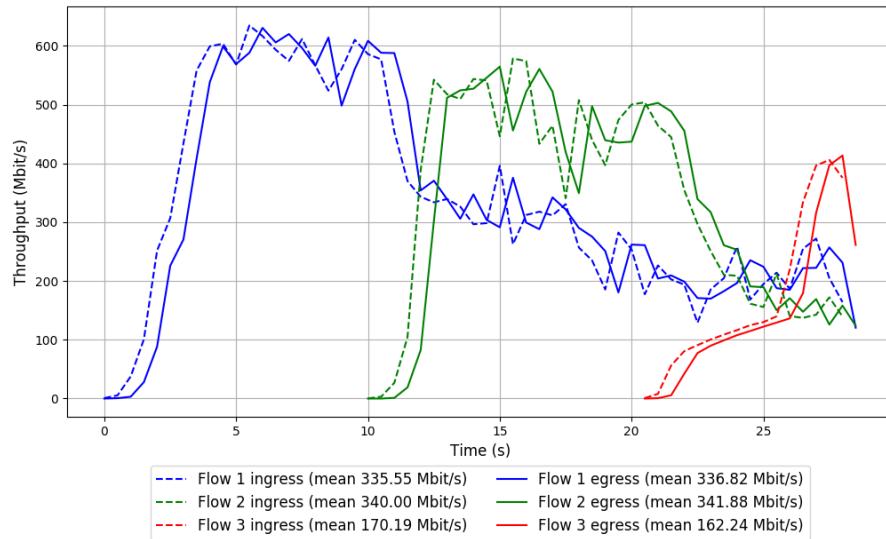


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 06:57:44
End at: 2019-06-27 06:58:14
Local clock offset: 0.001 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-06-27 09:55:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 598.26 Mbit/s
95th percentile per-packet one-way delay: 136.314 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 336.82 Mbit/s
95th percentile per-packet one-way delay: 136.522 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 341.88 Mbit/s
95th percentile per-packet one-way delay: 140.961 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 162.24 Mbit/s
95th percentile per-packet one-way delay: 110.712 ms
Loss rate: 7.31%
```

Run 3: Report of Indigo-MusesC5 — Data Link

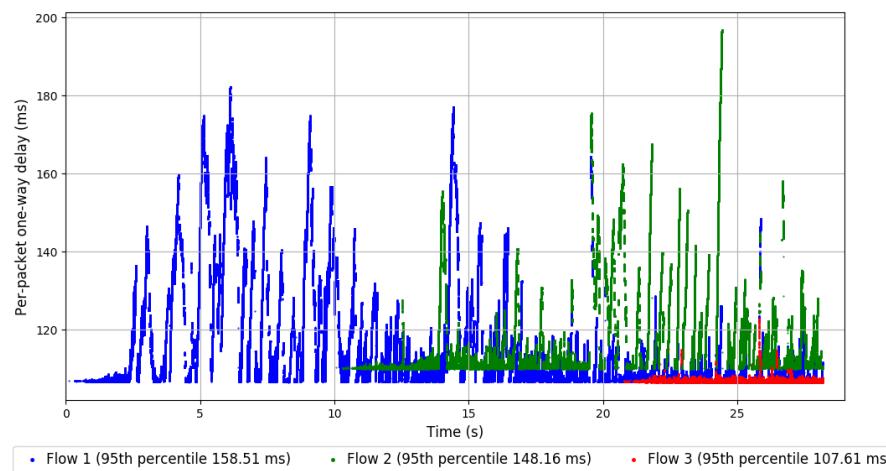
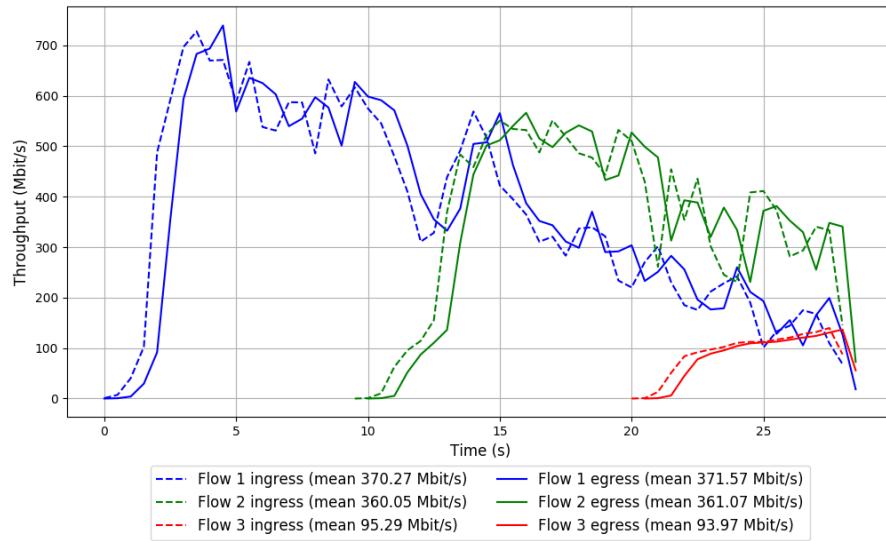


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 07:35:50
End at: 2019-06-27 07:36:20
Local clock offset: -0.121 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-06-27 10:00:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 629.65 Mbit/s
95th percentile per-packet one-way delay: 155.075 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 371.57 Mbit/s
95th percentile per-packet one-way delay: 158.515 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 361.07 Mbit/s
95th percentile per-packet one-way delay: 148.162 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 107.606 ms
Loss rate: 4.26%
```

Run 4: Report of Indigo-MusesC5 — Data Link

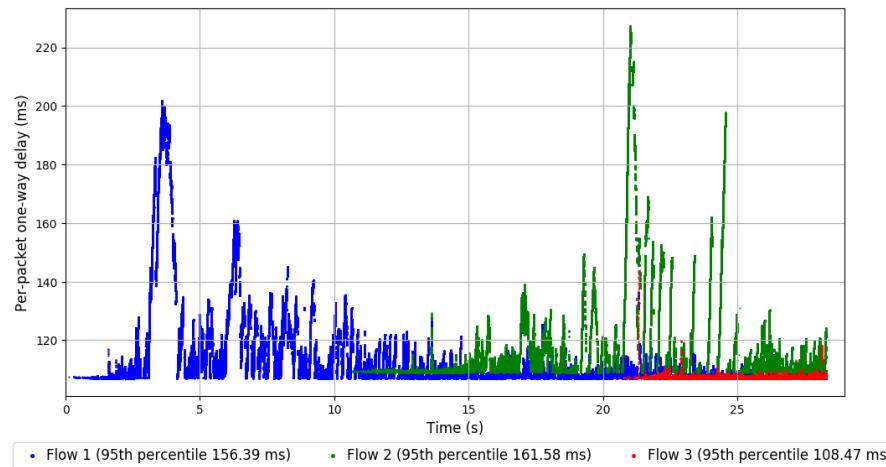
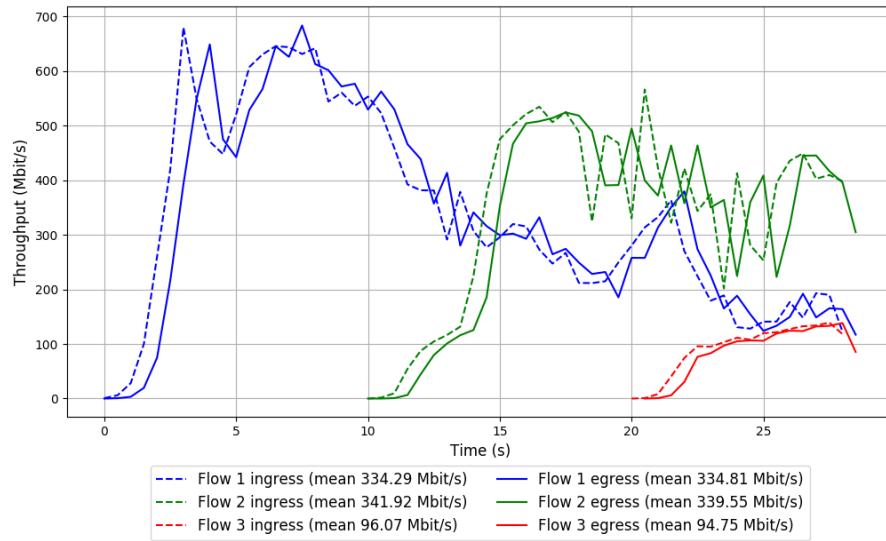


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-06-27 08:14:00
End at: 2019-06-27 08:14:30
Local clock offset: -0.0 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-06-27 10:02:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.62 Mbit/s
95th percentile per-packet one-way delay: 157.783 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 334.81 Mbit/s
95th percentile per-packet one-way delay: 156.387 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 339.55 Mbit/s
95th percentile per-packet one-way delay: 161.582 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 108.466 ms
Loss rate: 4.08%
```

Run 5: Report of Indigo-MusesC5 — Data Link

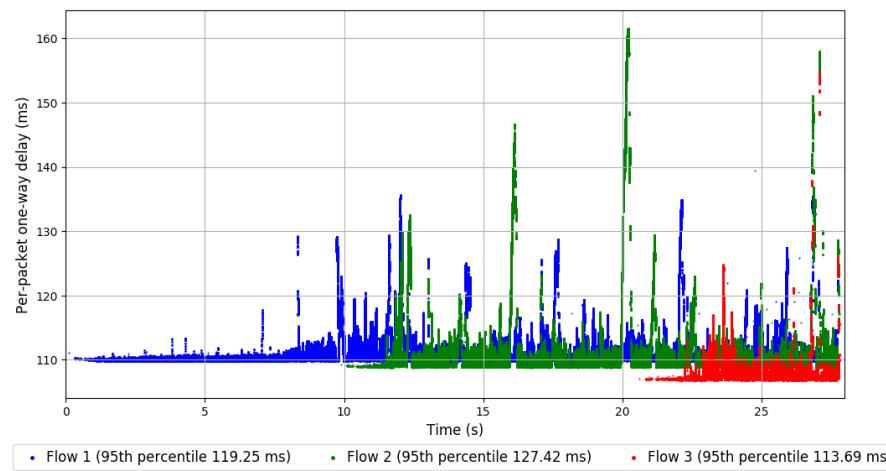
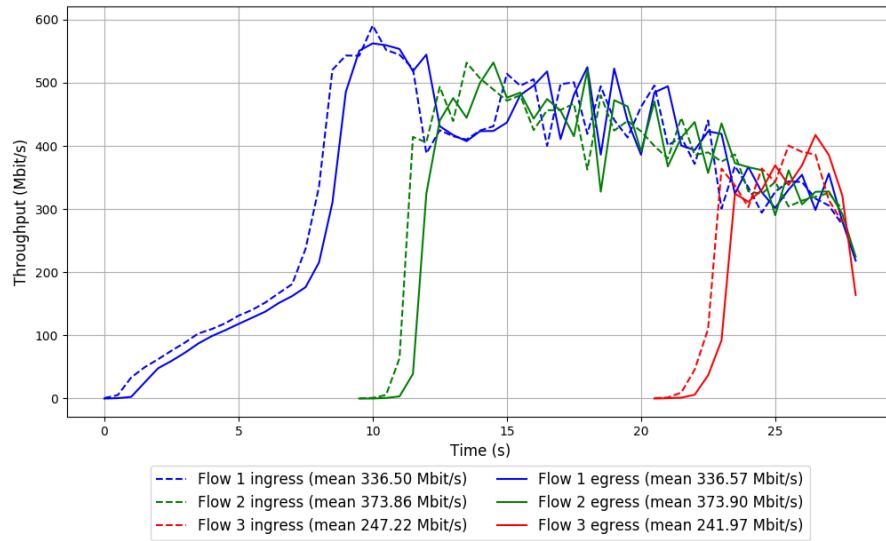


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 05:21:54
End at: 2019-06-27 05:22:24
Local clock offset: 0.078 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2019-06-27 10:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 641.14 Mbit/s
95th percentile per-packet one-way delay: 120.729 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 336.57 Mbit/s
95th percentile per-packet one-way delay: 119.245 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 373.90 Mbit/s
95th percentile per-packet one-way delay: 127.420 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 241.97 Mbit/s
95th percentile per-packet one-way delay: 113.694 ms
Loss rate: 4.99%
```

Run 1: Report of Indigo-MusesD — Data Link

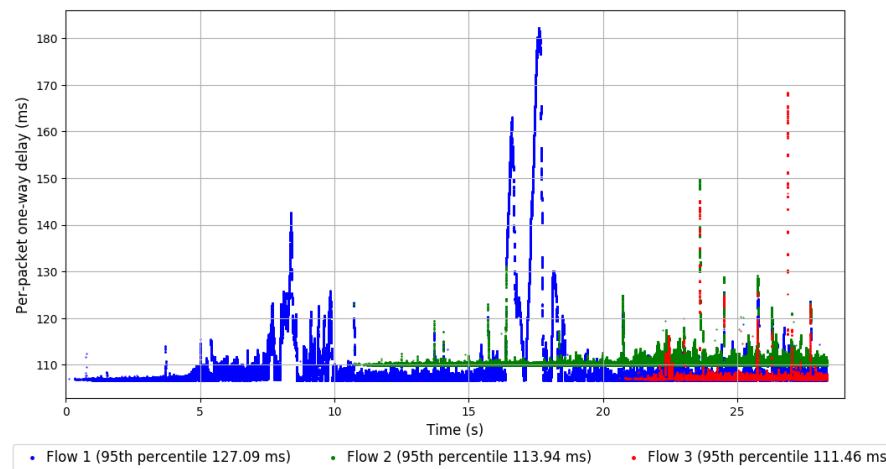
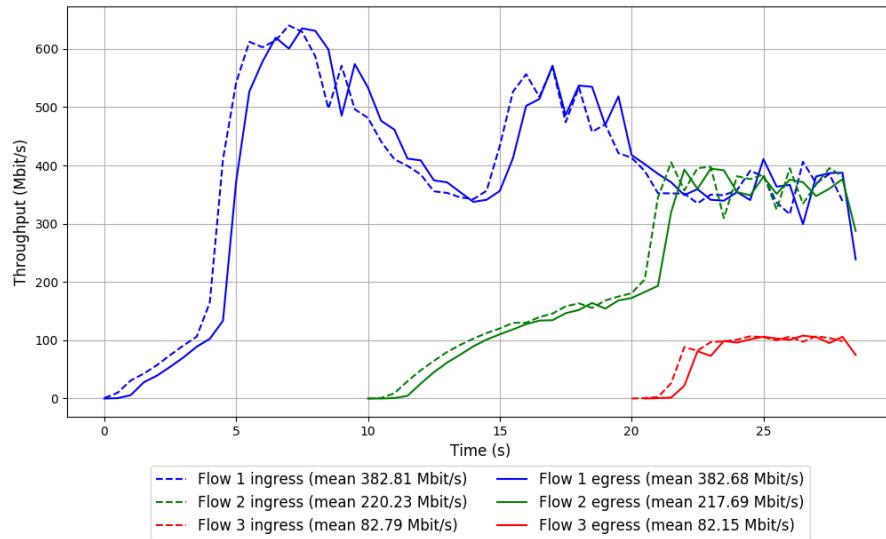


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 05:59:28
End at: 2019-06-27 05:59:58
Local clock offset: -0.131 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-06-27 10:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 542.89 Mbit/s
95th percentile per-packet one-way delay: 123.220 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 382.68 Mbit/s
95th percentile per-packet one-way delay: 127.087 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 217.69 Mbit/s
95th percentile per-packet one-way delay: 113.936 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 82.15 Mbit/s
95th percentile per-packet one-way delay: 111.459 ms
Loss rate: 3.52%
```

Run 2: Report of Indigo-MusesD — Data Link

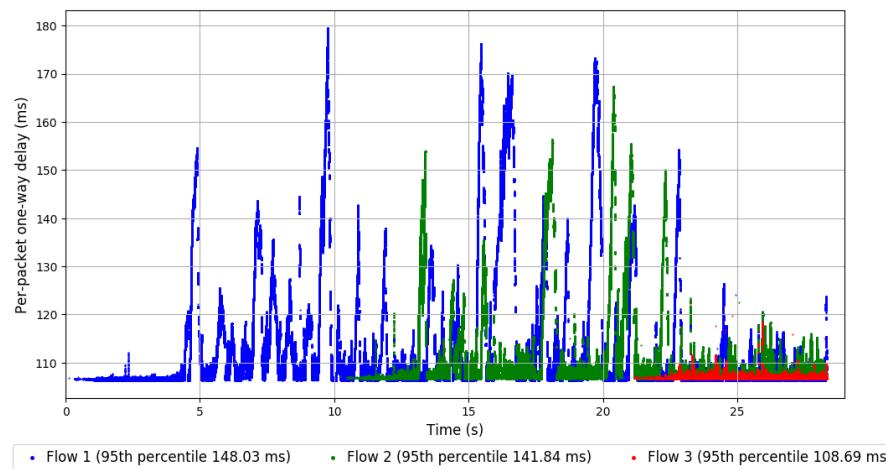
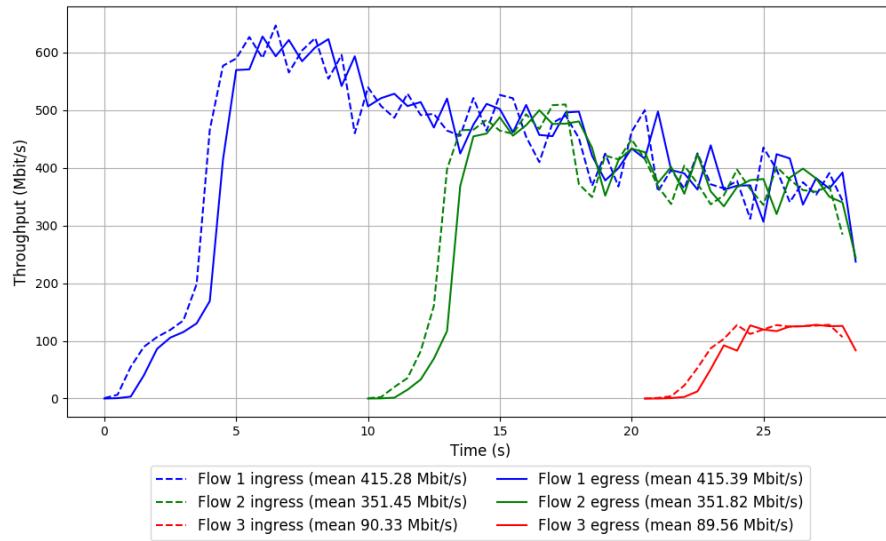


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 06:37:43
End at: 2019-06-27 06:38:13
Local clock offset: -0.011 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-06-27 10:05:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 664.07 Mbit/s
95th percentile per-packet one-way delay: 144.255 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 415.39 Mbit/s
95th percentile per-packet one-way delay: 148.029 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 351.82 Mbit/s
95th percentile per-packet one-way delay: 141.838 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 89.56 Mbit/s
95th percentile per-packet one-way delay: 108.687 ms
Loss rate: 3.70%
```

Run 3: Report of Indigo-MusesD — Data Link

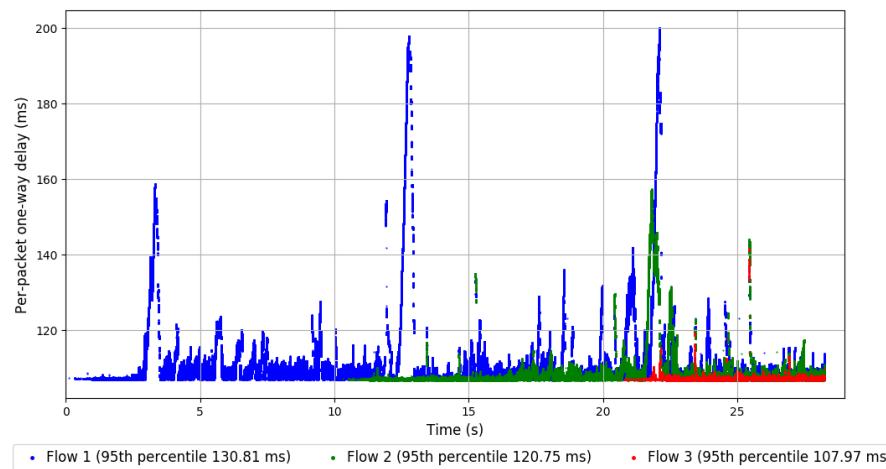
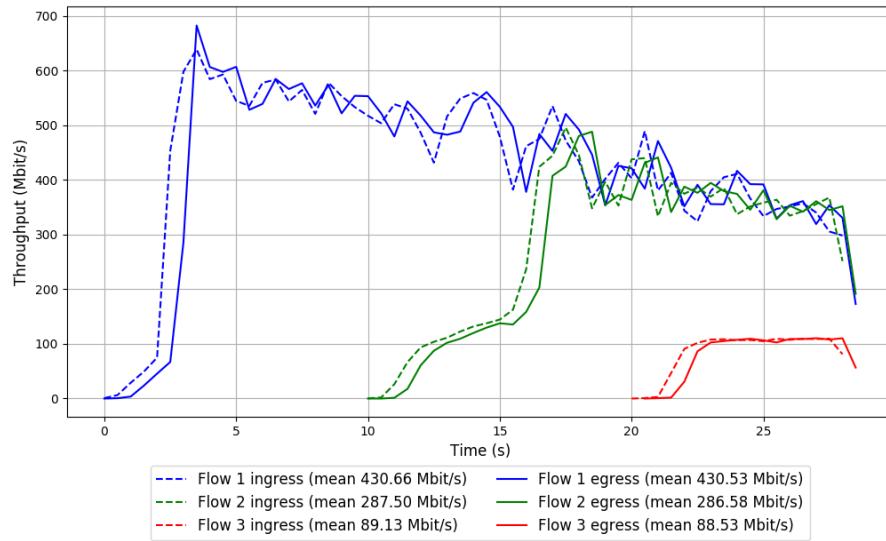


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 07:15:10
End at: 2019-06-27 07:15:40
Local clock offset: -0.035 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-06-27 10:05:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 637.23 Mbit/s
95th percentile per-packet one-way delay: 128.554 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 430.53 Mbit/s
95th percentile per-packet one-way delay: 130.814 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 286.58 Mbit/s
95th percentile per-packet one-way delay: 120.750 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 88.53 Mbit/s
95th percentile per-packet one-way delay: 107.974 ms
Loss rate: 3.39%
```

Run 4: Report of Indigo-MusesD — Data Link

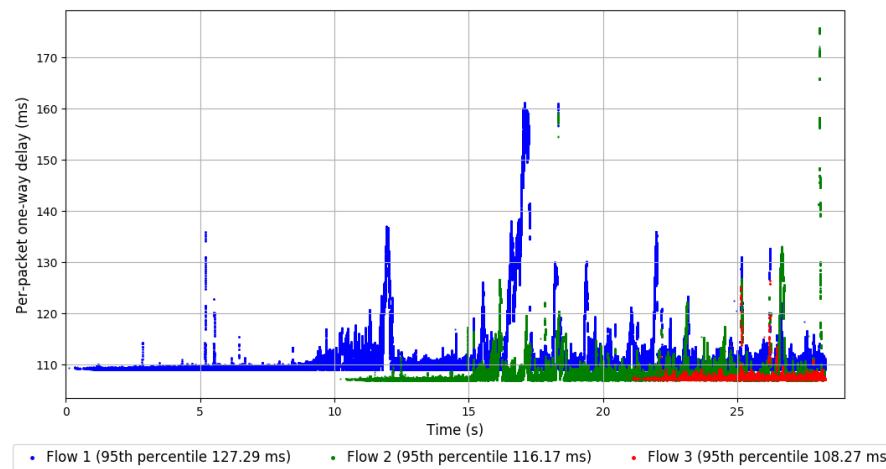
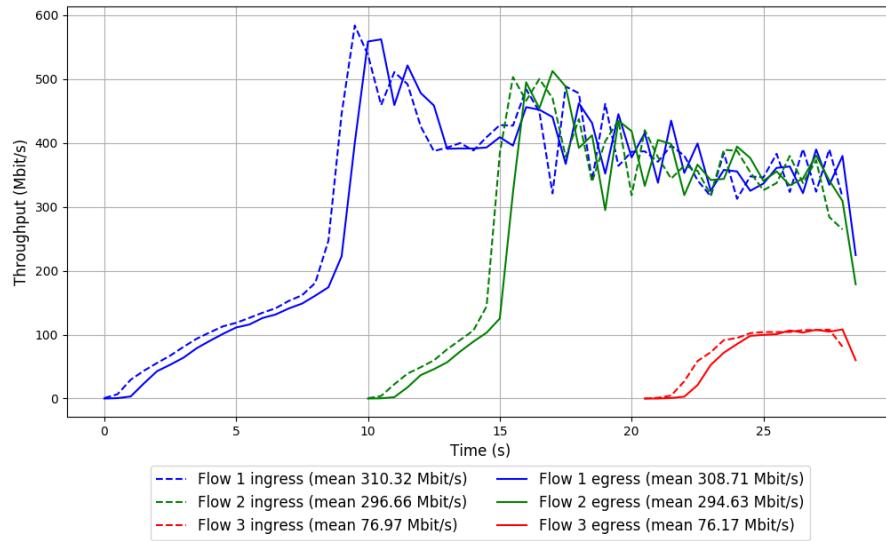


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-06-27 07:53:37
End at: 2019-06-27 07:54:07
Local clock offset: -0.031 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-06-27 10:05:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.38 Mbit/s
95th percentile per-packet one-way delay: 122.751 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 308.71 Mbit/s
95th percentile per-packet one-way delay: 127.286 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 294.63 Mbit/s
95th percentile per-packet one-way delay: 116.172 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 76.17 Mbit/s
95th percentile per-packet one-way delay: 108.269 ms
Loss rate: 3.88%
```

Run 5: Report of Indigo-MusesD — Data Link

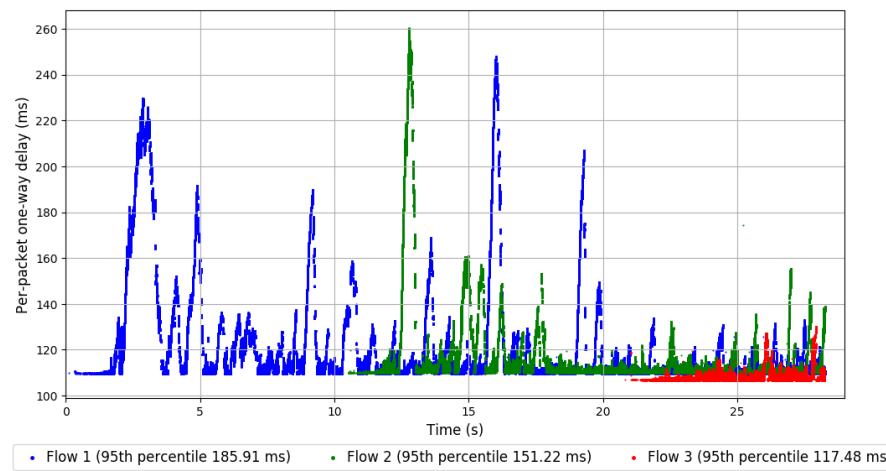
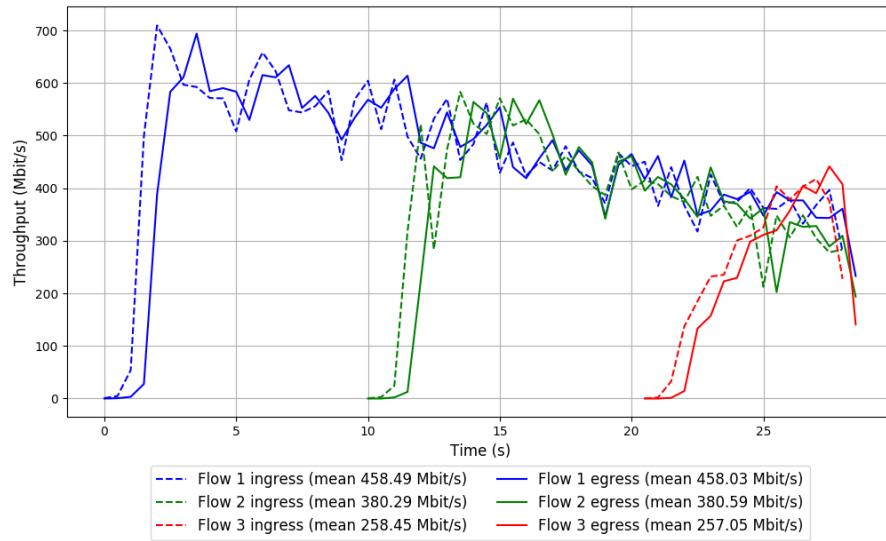


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 05:43:34
End at: 2019-06-27 05:44:04
Local clock offset: -0.123 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-06-27 10:10:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 768.85 Mbit/s
95th percentile per-packet one-way delay: 174.683 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 458.03 Mbit/s
95th percentile per-packet one-way delay: 185.905 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 380.59 Mbit/s
95th percentile per-packet one-way delay: 151.216 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 257.05 Mbit/s
95th percentile per-packet one-way delay: 117.482 ms
Loss rate: 3.44%
```

Run 1: Report of Indigo-MusesT — Data Link

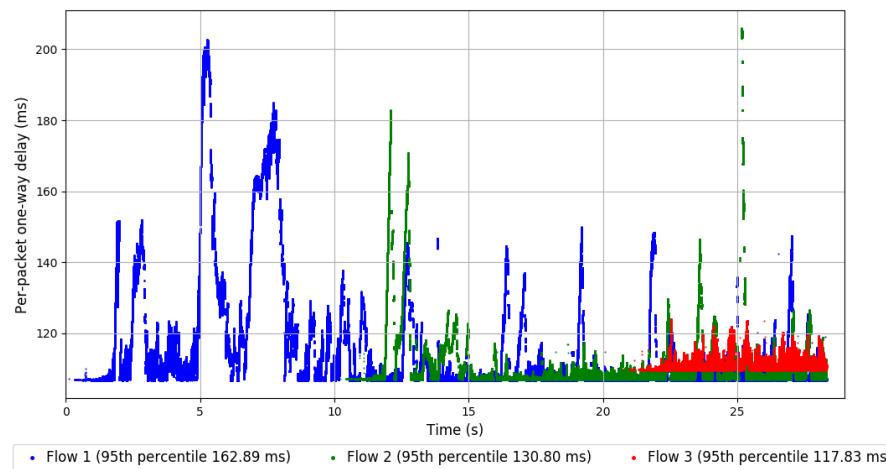
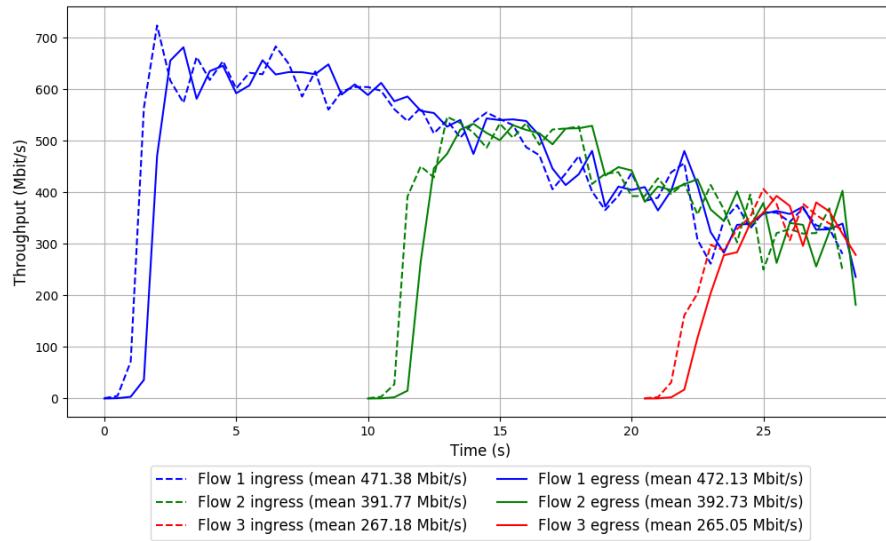


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 06:21:41
End at: 2019-06-27 06:22:11
Local clock offset: -0.048 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-06-27 10:15:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 794.98 Mbit/s
95th percentile per-packet one-way delay: 151.020 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 472.13 Mbit/s
95th percentile per-packet one-way delay: 162.889 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 392.73 Mbit/s
95th percentile per-packet one-way delay: 130.803 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 265.05 Mbit/s
95th percentile per-packet one-way delay: 117.831 ms
Loss rate: 3.61%
```

Run 2: Report of Indigo-MusesT — Data Link

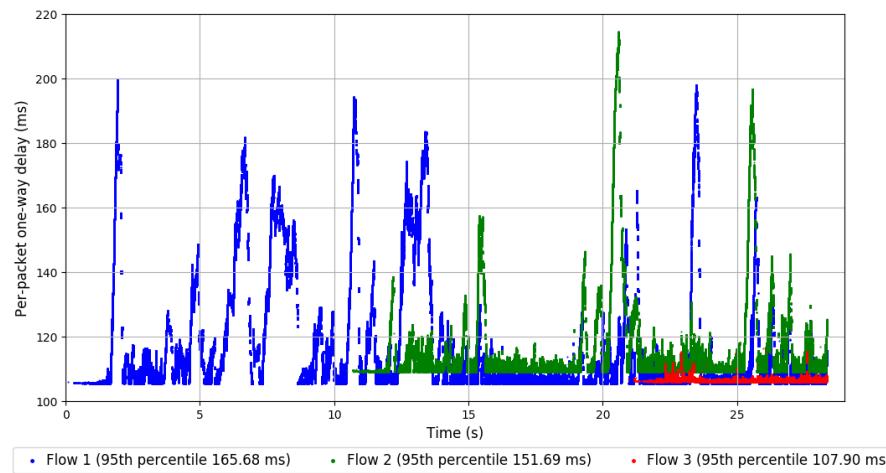
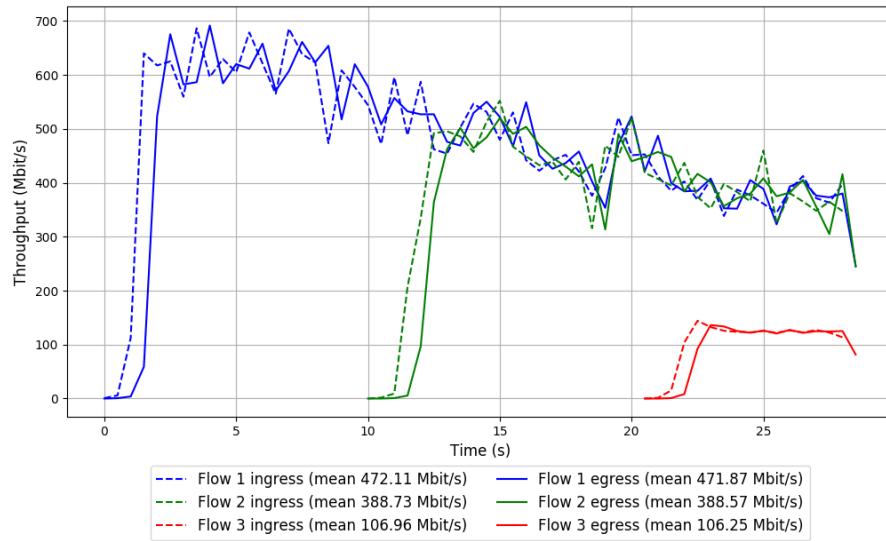


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 06:59:34
End at: 2019-06-27 07:00:04
Local clock offset: -0.157 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2019-06-27 10:15:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 745.55 Mbit/s
95th percentile per-packet one-way delay: 162.408 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 471.87 Mbit/s
95th percentile per-packet one-way delay: 165.676 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 388.57 Mbit/s
95th percentile per-packet one-way delay: 151.690 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 106.25 Mbit/s
95th percentile per-packet one-way delay: 107.899 ms
Loss rate: 3.57%
```

Run 3: Report of Indigo-MusesT — Data Link

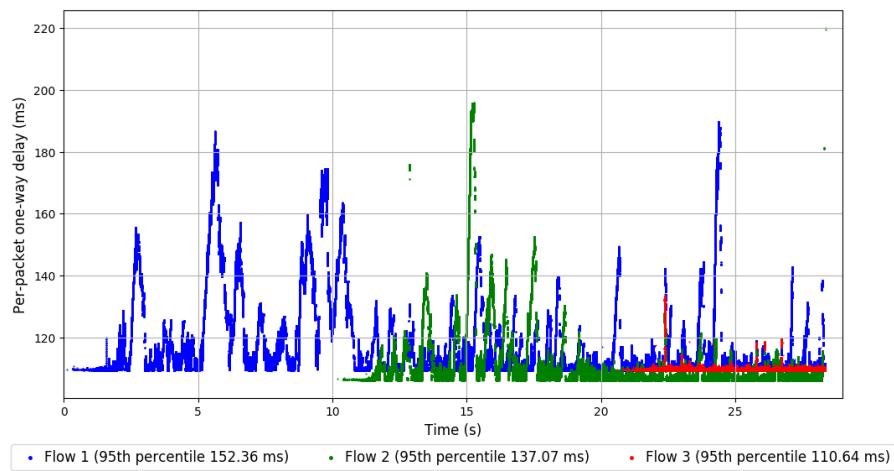
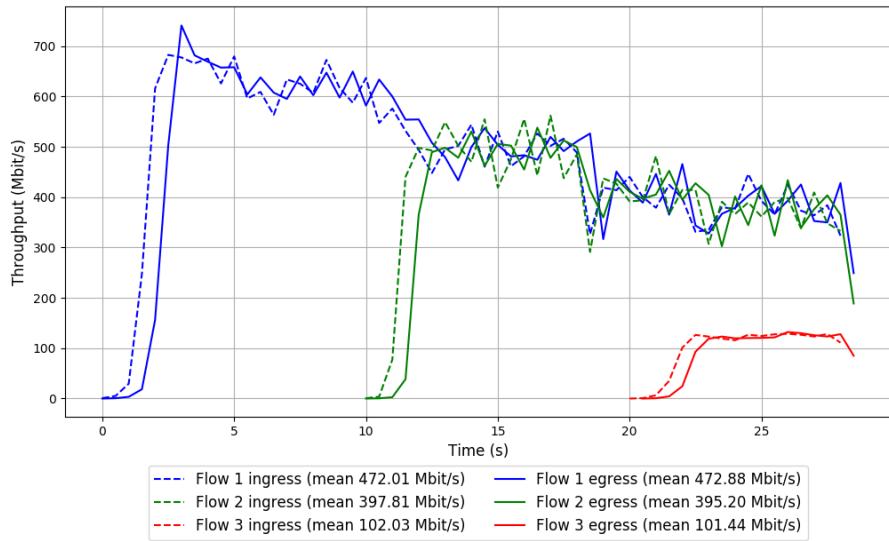


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 07:37:42
End at: 2019-06-27 07:38:12
Local clock offset: -0.601 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-06-27 10:16:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 754.66 Mbit/s
95th percentile per-packet one-way delay: 148.550 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 472.88 Mbit/s
95th percentile per-packet one-way delay: 152.362 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 395.20 Mbit/s
95th percentile per-packet one-way delay: 137.067 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 101.44 Mbit/s
95th percentile per-packet one-way delay: 110.635 ms
Loss rate: 3.34%
```

Run 4: Report of Indigo-MusesT — Data Link

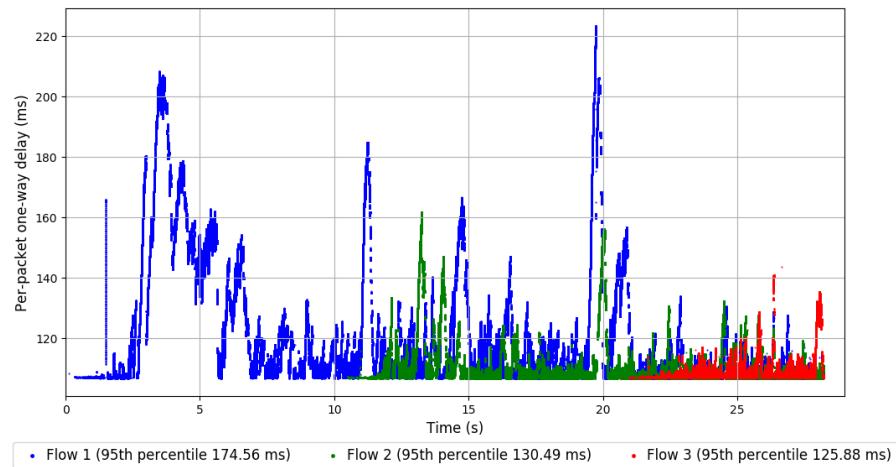
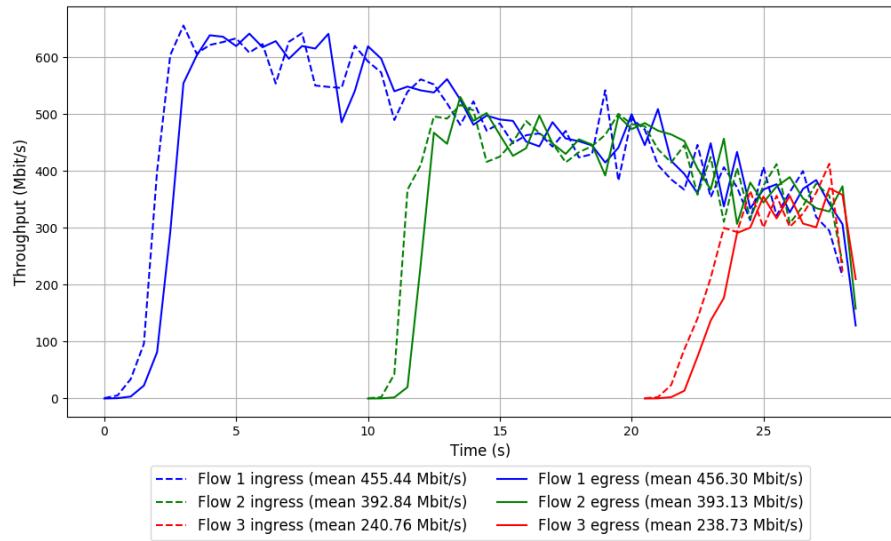


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-06-27 08:15:50
End at: 2019-06-27 08:16:20
Local clock offset: -0.098 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-06-27 10:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 770.74 Mbit/s
95th percentile per-packet one-way delay: 160.244 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 456.30 Mbit/s
95th percentile per-packet one-way delay: 174.560 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 393.13 Mbit/s
95th percentile per-packet one-way delay: 130.485 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 238.73 Mbit/s
95th percentile per-packet one-way delay: 125.883 ms
Loss rate: 3.65%
```

Run 5: Report of Indigo-MusesT — Data Link

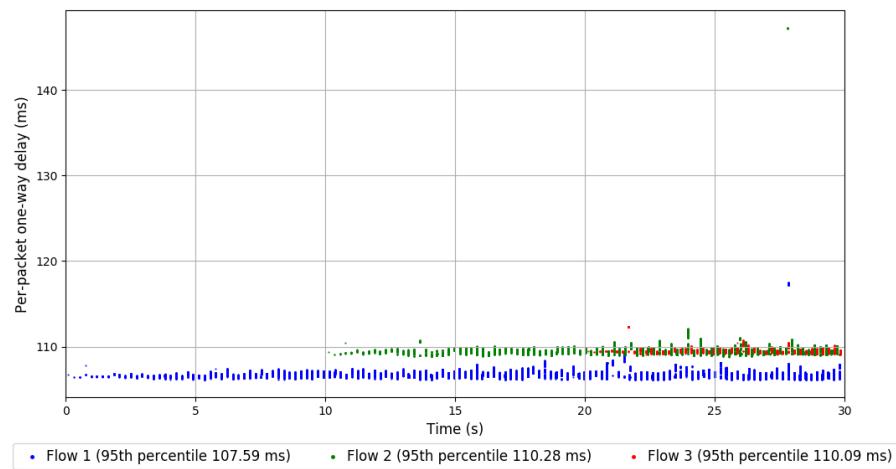
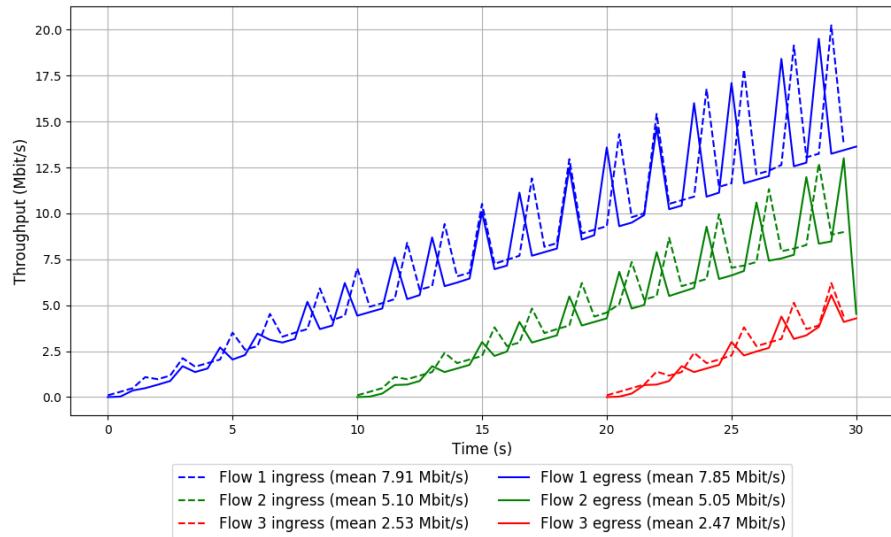


Run 1: Statistics of LEDBAT

```
Start at: 2019-06-27 05:26:59
End at: 2019-06-27 05:27:29
Local clock offset: -0.709 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-06-27 10:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 109.873 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 107.594 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 5.05 Mbit/s
95th percentile per-packet one-way delay: 110.275 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 110.086 ms
Loss rate: 4.42%
```

Run 1: Report of LEDBAT — Data Link

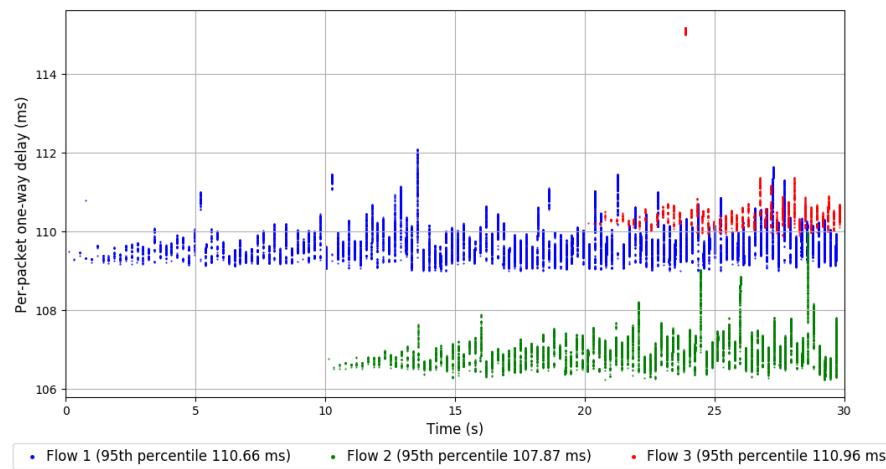
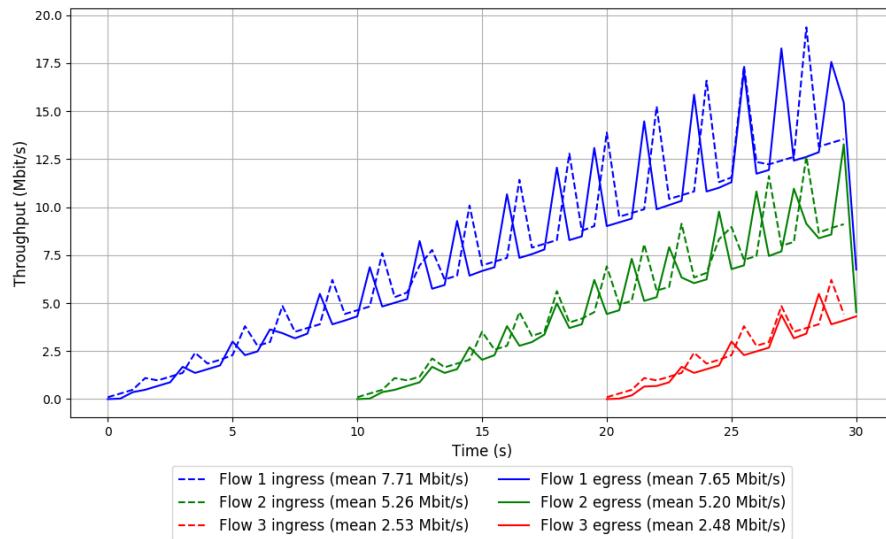


Run 2: Statistics of LEDBAT

```
Start at: 2019-06-27 06:04:30
End at: 2019-06-27 06:05:00
Local clock offset: -0.103 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-06-27 10:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 110.559 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 110.661 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 107.866 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 110.963 ms
Loss rate: 4.46%
```

Run 2: Report of LEDBAT — Data Link

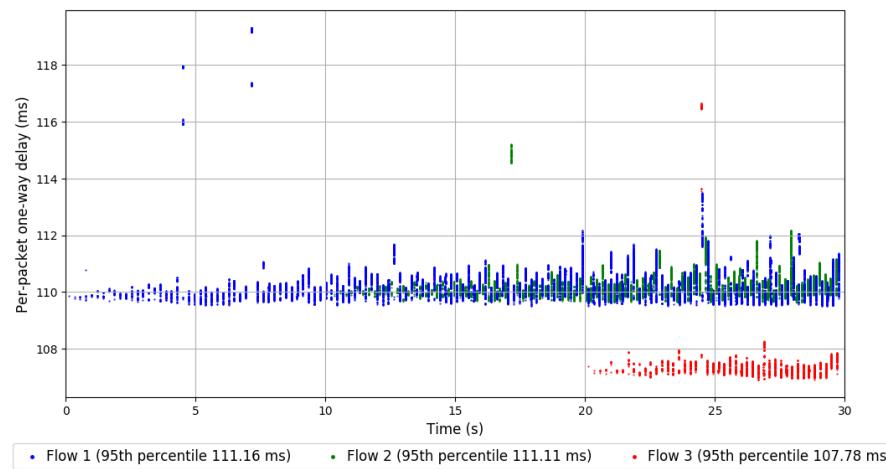
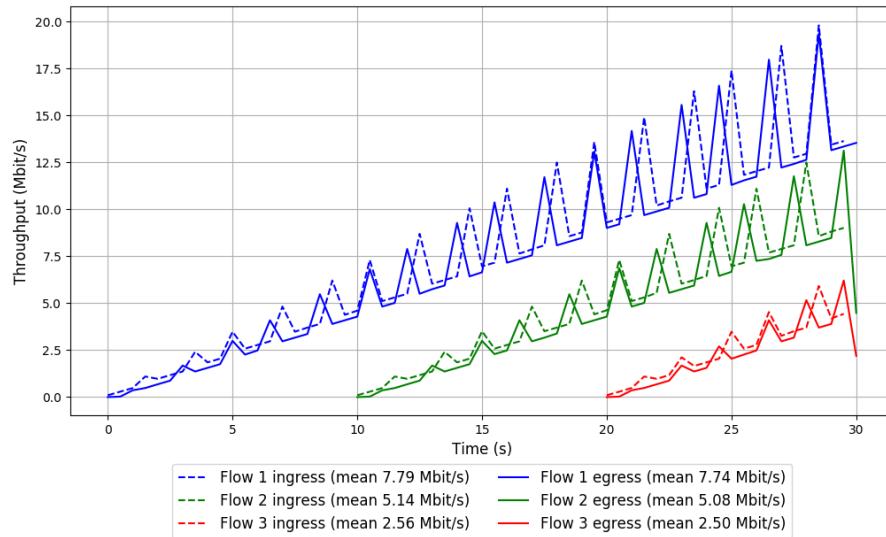


Run 3: Statistics of LEDBAT

```
Start at: 2019-06-27 06:42:49
End at: 2019-06-27 06:43:19
Local clock offset: -0.029 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-06-27 10:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.90 Mbit/s
95th percentile per-packet one-way delay: 111.129 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 111.156 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 111.115 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 107.785 ms
Loss rate: 4.47%
```

Run 3: Report of LEDBAT — Data Link

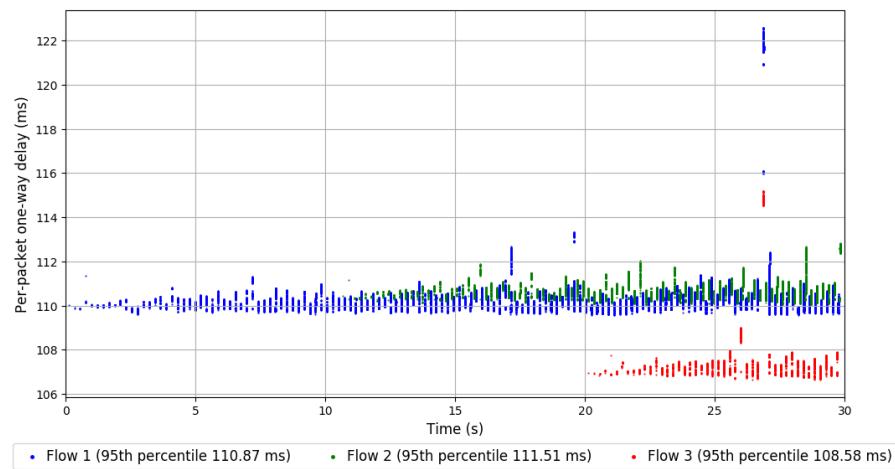
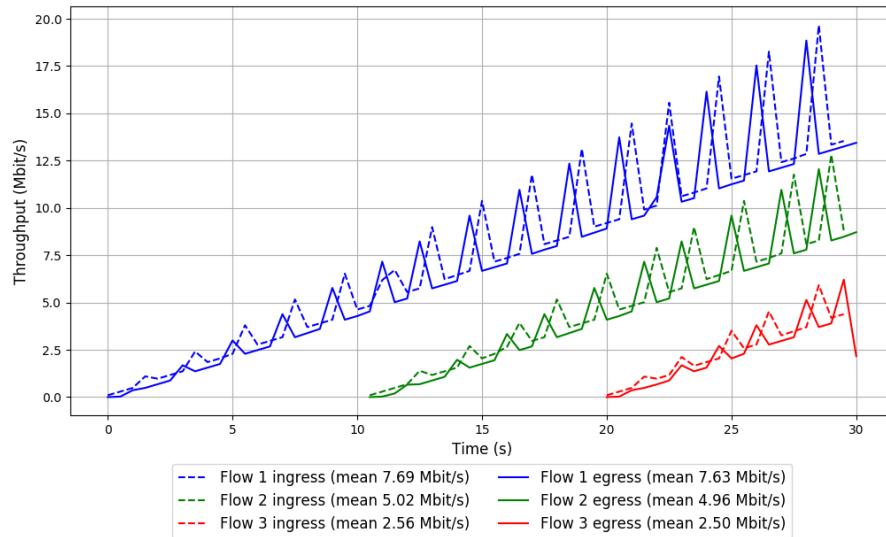


Run 4: Statistics of LEDBAT

```
Start at: 2019-06-27 07:20:13
End at: 2019-06-27 07:20:43
Local clock offset: 0.017 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-06-27 10:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 111.104 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 110.868 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 4.96 Mbit/s
95th percentile per-packet one-way delay: 111.509 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 108.575 ms
Loss rate: 4.42%
```

Run 4: Report of LEDBAT — Data Link

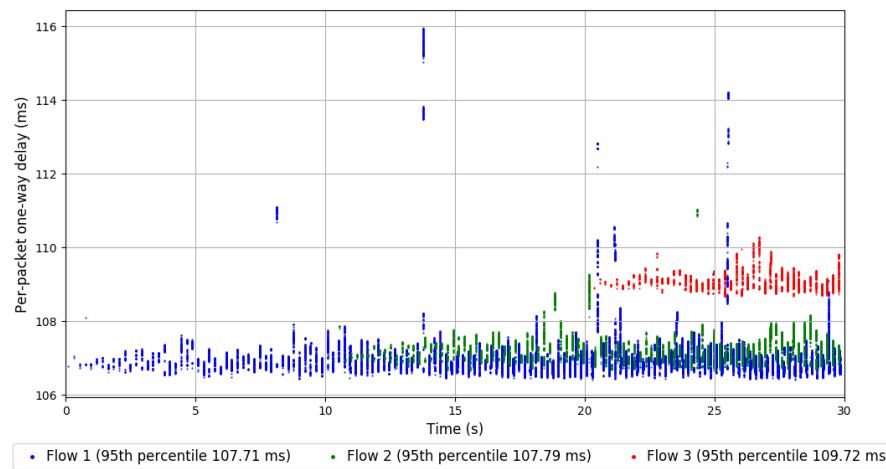
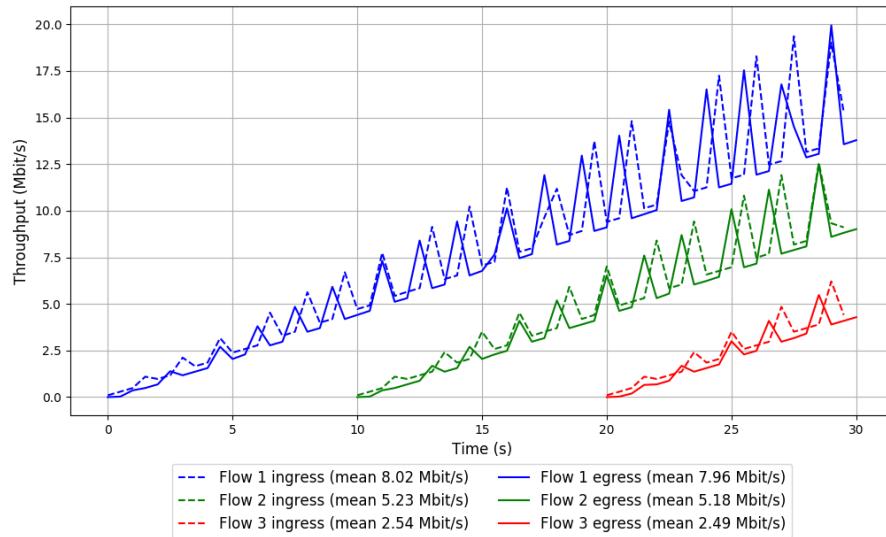


Run 5: Statistics of LEDBAT

```
Start at: 2019-06-27 07:58:35
End at: 2019-06-27 07:59:05
Local clock offset: -0.172 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2019-06-27 10:17:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 109.051 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 107.712 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 107.787 ms
Loss rate: 2.20%
-- Flow 3:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 109.720 ms
Loss rate: 4.46%
```

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2019-06-27 05:56:07

End at: 2019-06-27 05:56:37

Local clock offset: -0.815 ms

Remote clock offset: 0.005 ms

Run 1: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Muses_DecisionTree

Start at: 2019-06-27 06:34:32

End at: 2019-06-27 06:35:02

Local clock offset: -0.154 ms

Remote clock offset: -0.088 ms

Run 2: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses_DecisionTree

Start at: 2019-06-27 07:11:56

End at: 2019-06-27 07:12:26

Local clock offset: 0.293 ms

Remote clock offset: -0.104 ms

Run 3: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses_DecisionTree

Start at: 2019-06-27 07:50:21

End at: 2019-06-27 07:50:51

Local clock offset: 0.59 ms

Remote clock offset: -0.03 ms

Run 4: Report of Muses_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses_DecisionTree

Start at: 2019-06-27 08:28:47
End at: 2019-06-27 08:29:17
Local clock offset: -0.069 ms
Remote clock offset: -0.106 ms

Run 5: Report of Muses_DecisionTree — Data Link

Figure is missing

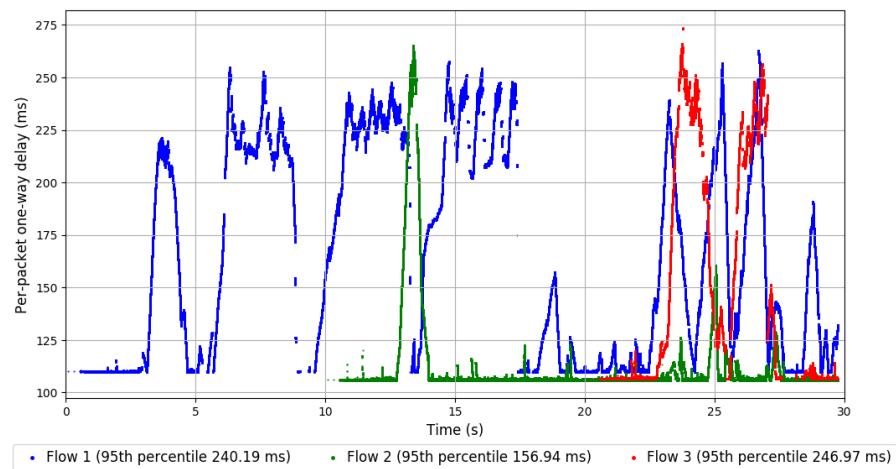
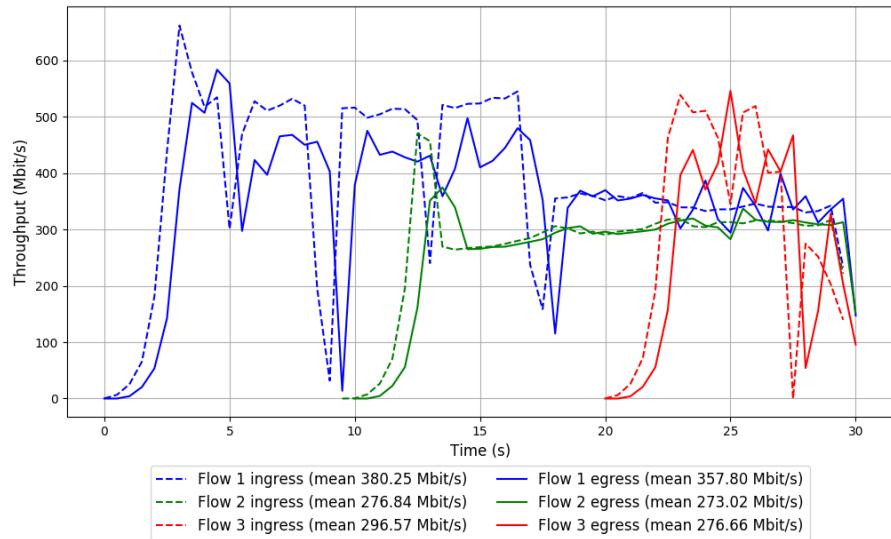
Figure is missing

Run 1: Statistics of PCC-Allegro

```
Start at: 2019-06-27 05:57:23
End at: 2019-06-27 05:57:53
Local clock offset: -0.217 ms
Remote clock offset: 0.321 ms

# Below is generated by plot.py at 2019-06-27 10:30:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 628.36 Mbit/s
95th percentile per-packet one-way delay: 239.845 ms
Loss rate: 5.77%
-- Flow 1:
Average throughput: 357.80 Mbit/s
95th percentile per-packet one-way delay: 240.194 ms
Loss rate: 6.60%
-- Flow 2:
Average throughput: 273.02 Mbit/s
95th percentile per-packet one-way delay: 156.943 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 276.66 Mbit/s
95th percentile per-packet one-way delay: 246.966 ms
Loss rate: 8.78%
```

Run 1: Report of PCC-Allegro — Data Link

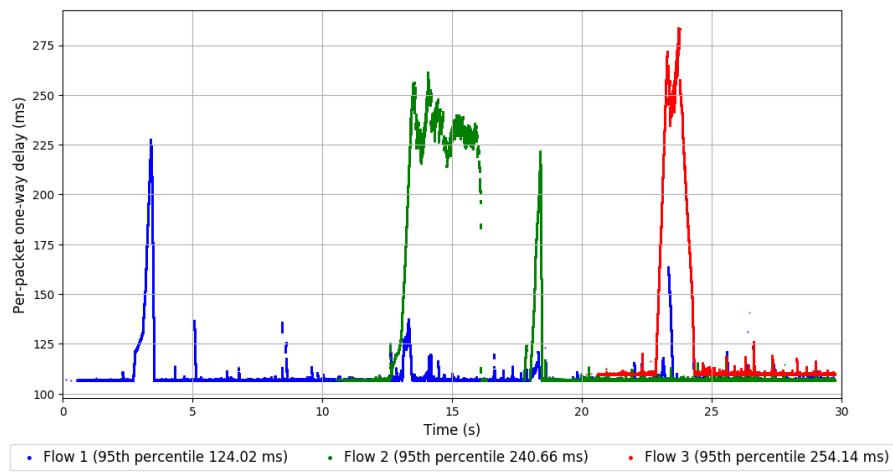
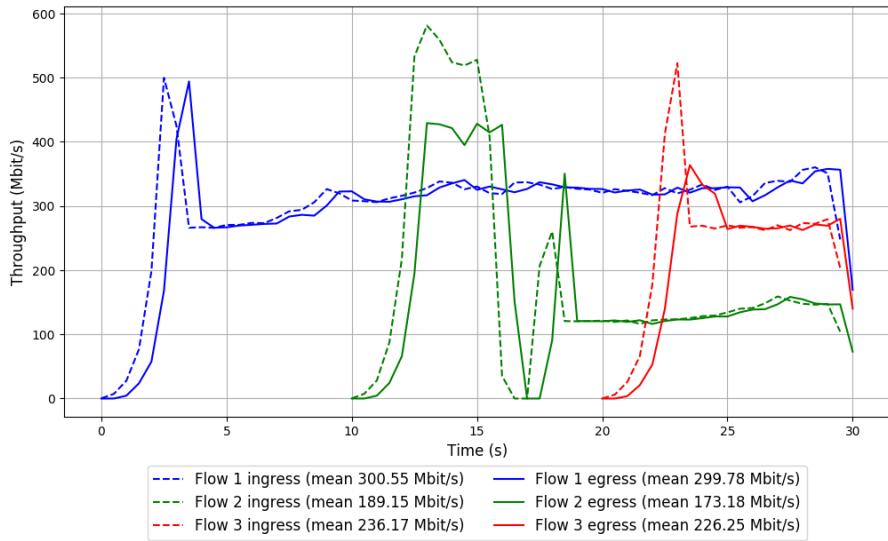


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-06-27 06:35:48
End at: 2019-06-27 06:36:18
Local clock offset: -0.055 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-06-27 10:30:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 487.79 Mbit/s
95th percentile per-packet one-way delay: 233.232 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 299.78 Mbit/s
95th percentile per-packet one-way delay: 124.022 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 173.18 Mbit/s
95th percentile per-packet one-way delay: 240.659 ms
Loss rate: 9.45%
-- Flow 3:
Average throughput: 226.25 Mbit/s
95th percentile per-packet one-way delay: 254.142 ms
Loss rate: 6.34%
```

Run 2: Report of PCC-Allegro — Data Link

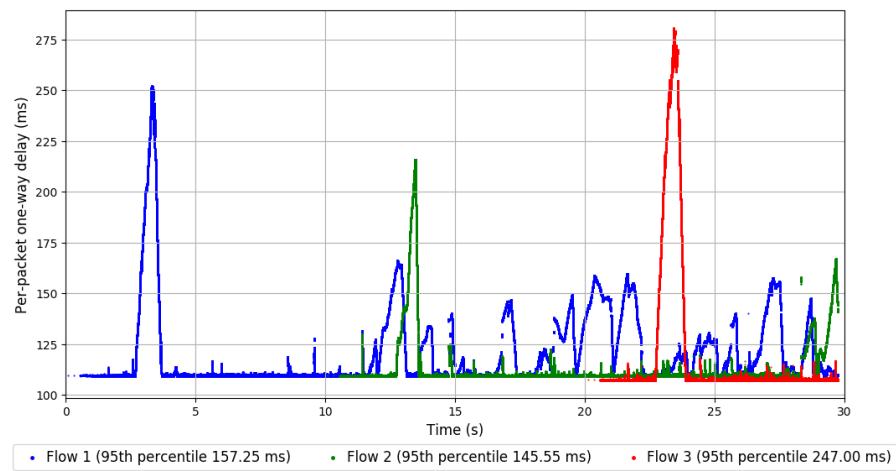
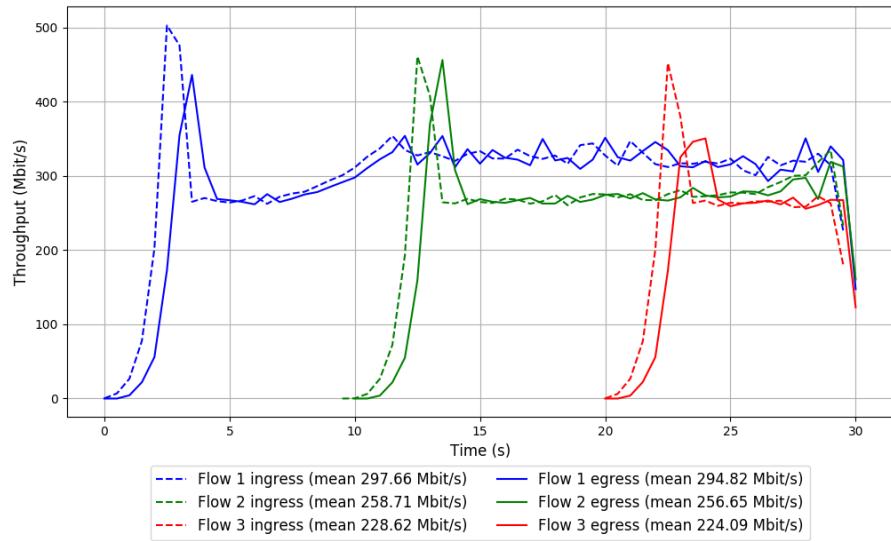


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-06-27 07:13:12
End at: 2019-06-27 07:13:42
Local clock offset: -0.048 ms
Remote clock offset: -0.514 ms

# Below is generated by plot.py at 2019-06-27 10:30:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 537.50 Mbit/s
95th percentile per-packet one-way delay: 162.464 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 294.82 Mbit/s
95th percentile per-packet one-way delay: 157.249 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 256.65 Mbit/s
95th percentile per-packet one-way delay: 145.546 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 224.09 Mbit/s
95th percentile per-packet one-way delay: 247.004 ms
Loss rate: 4.16%
```

Run 3: Report of PCC-Allegro — Data Link

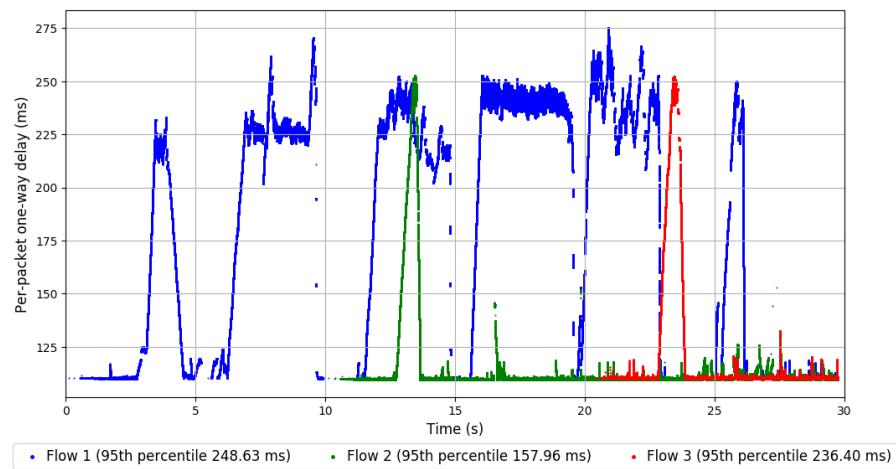
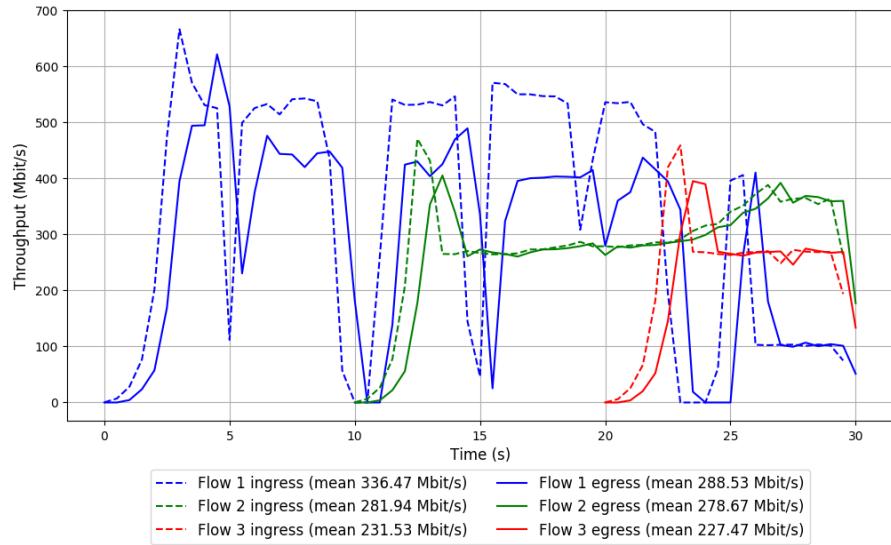


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-06-27 07:51:37
End at: 2019-06-27 07:52:07
Local clock offset: -0.022 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-06-27 10:32:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 546.86 Mbit/s
95th percentile per-packet one-way delay: 245.563 ms
Loss rate: 9.55%
-- Flow 1:
Average throughput: 288.53 Mbit/s
95th percentile per-packet one-way delay: 248.633 ms
Loss rate: 14.88%
-- Flow 2:
Average throughput: 278.67 Mbit/s
95th percentile per-packet one-way delay: 157.958 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 227.47 Mbit/s
95th percentile per-packet one-way delay: 236.401 ms
Loss rate: 3.96%
```

Run 4: Report of PCC-Allegro — Data Link

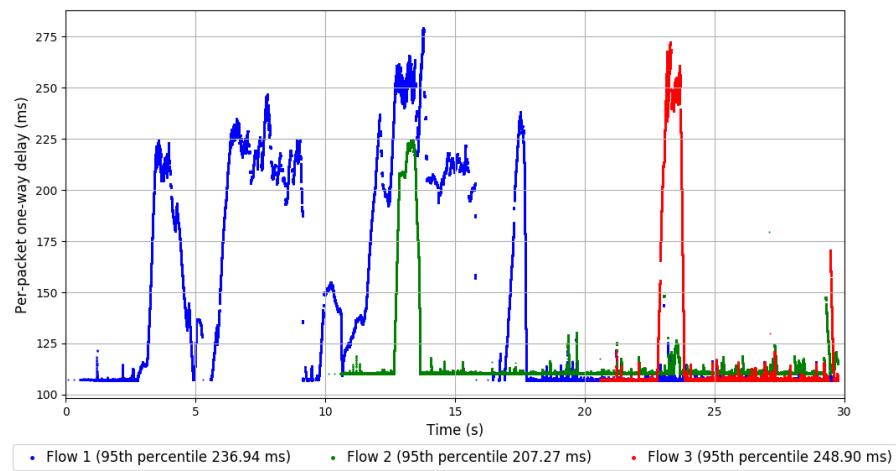
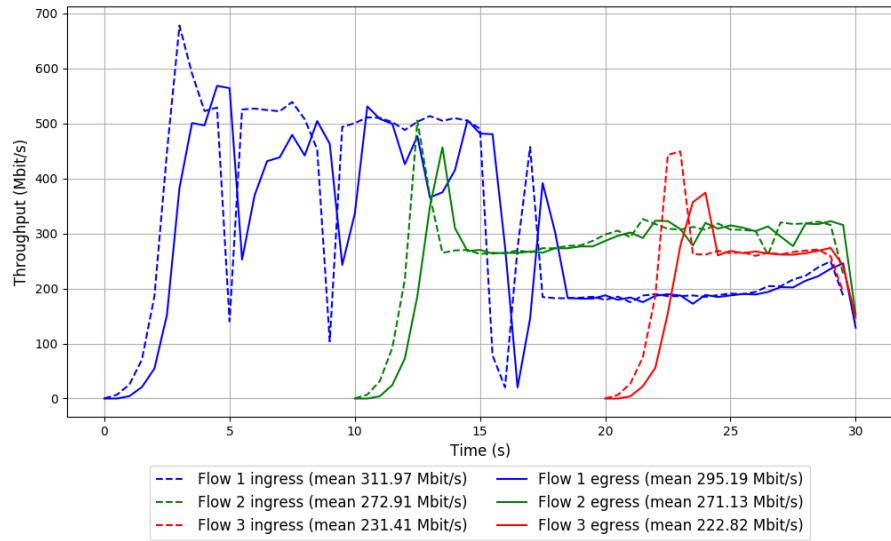


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-06-27 08:30:03
End at: 2019-06-27 08:30:33
Local clock offset: 0.009 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-06-27 10:37:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 547.06 Mbit/s
95th percentile per-packet one-way delay: 231.027 ms
Loss rate: 4.66%
-- Flow 1:
Average throughput: 295.19 Mbit/s
95th percentile per-packet one-way delay: 236.937 ms
Loss rate: 6.06%
-- Flow 2:
Average throughput: 271.13 Mbit/s
95th percentile per-packet one-way delay: 207.271 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 222.82 Mbit/s
95th percentile per-packet one-way delay: 248.900 ms
Loss rate: 5.86%
```

Run 5: Report of PCC-Allegro — Data Link

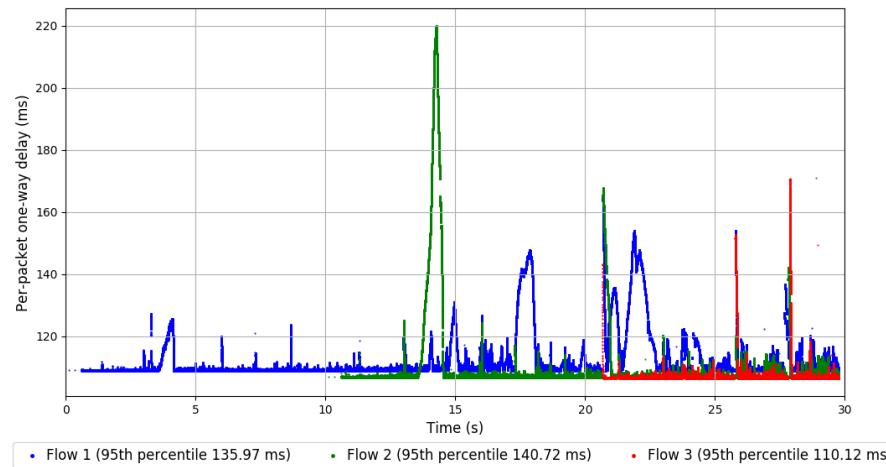
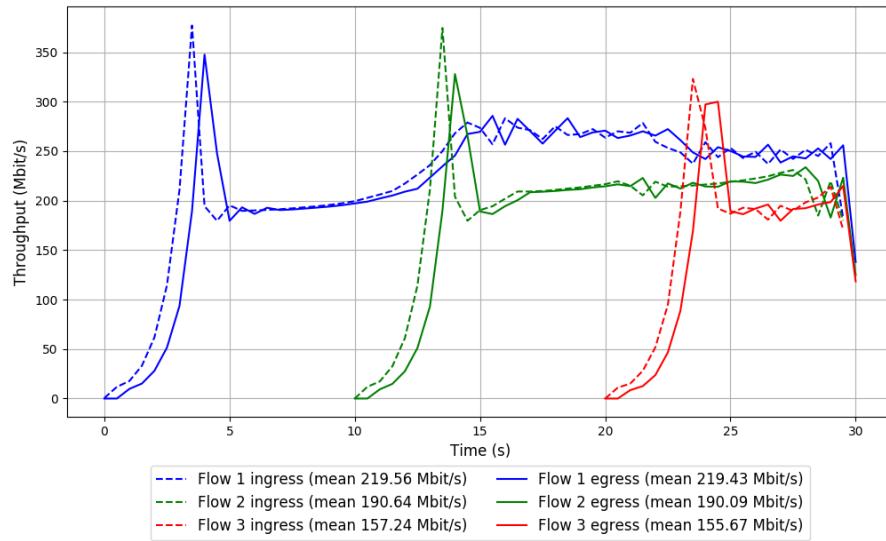


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-06-27 05:38:27
End at: 2019-06-27 05:38:57
Local clock offset: -0.251 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-06-27 10:37:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.96 Mbit/s
95th percentile per-packet one-way delay: 135.521 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 219.43 Mbit/s
95th percentile per-packet one-way delay: 135.975 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 190.09 Mbit/s
95th percentile per-packet one-way delay: 140.720 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 155.67 Mbit/s
95th percentile per-packet one-way delay: 110.124 ms
Loss rate: 3.17%
```

Run 1: Report of PCC-Expr — Data Link

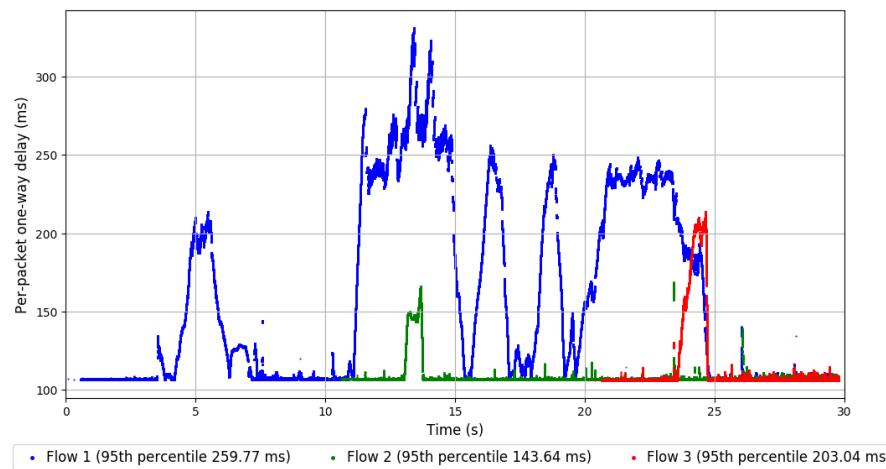
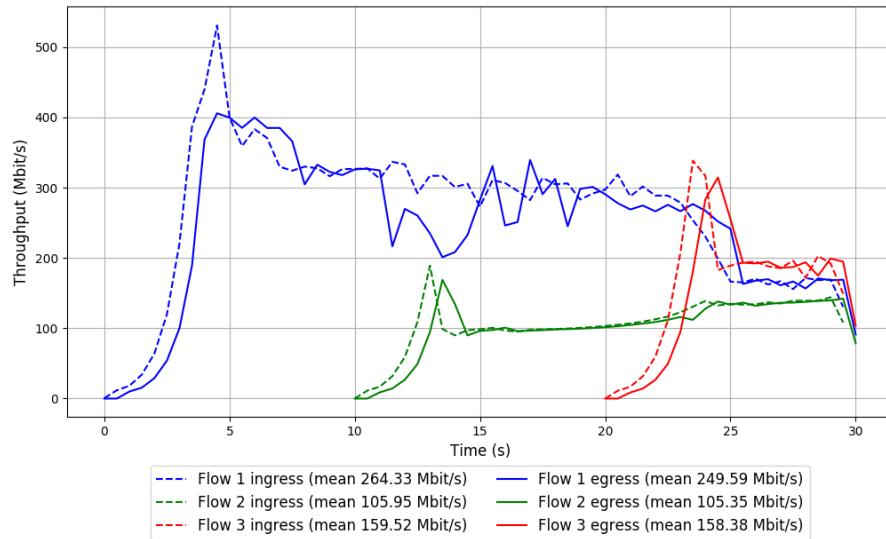


Run 2: Statistics of PCC-Expr

```
Start at: 2019-06-27 06:16:33
End at: 2019-06-27 06:17:03
Local clock offset: -0.206 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-06-27 10:37:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 370.73 Mbit/s
95th percentile per-packet one-way delay: 250.427 ms
Loss rate: 4.97%
-- Flow 1:
Average throughput: 249.59 Mbit/s
95th percentile per-packet one-way delay: 259.768 ms
Loss rate: 6.27%
-- Flow 2:
Average throughput: 105.35 Mbit/s
95th percentile per-packet one-way delay: 143.643 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 158.38 Mbit/s
95th percentile per-packet one-way delay: 203.038 ms
Loss rate: 2.89%
```

Run 2: Report of PCC-Expr — Data Link

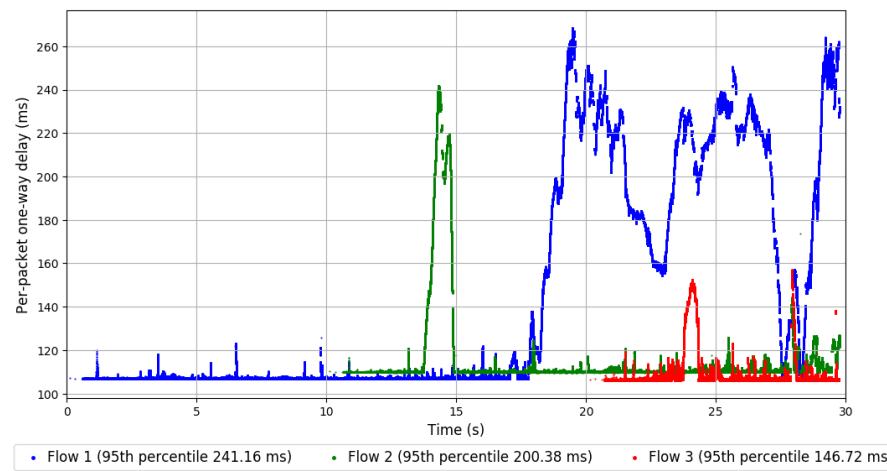
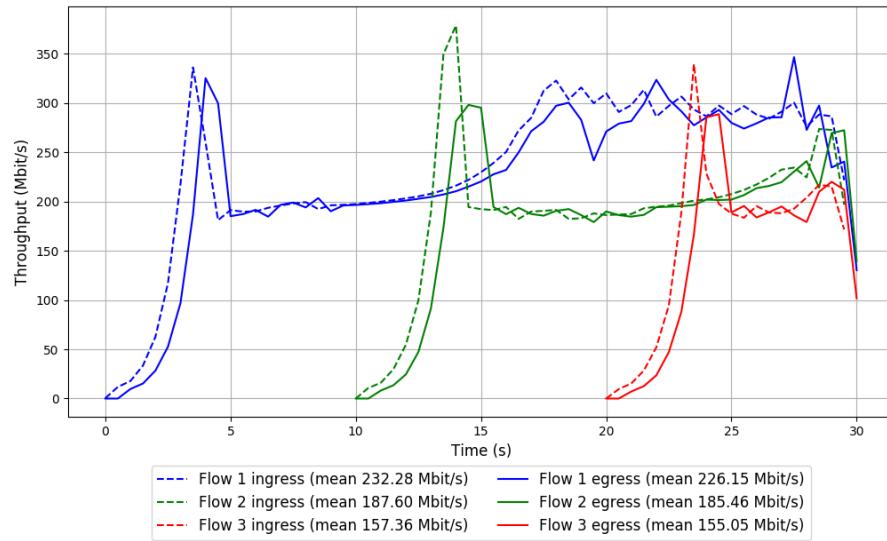


Run 3: Statistics of PCC-Expr

```
Start at: 2019-06-27 06:54:27
End at: 2019-06-27 06:54:57
Local clock offset: 0.151 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-06-27 10:37:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.25 Mbit/s
95th percentile per-packet one-way delay: 233.812 ms
Loss rate: 3.07%
-- Flow 1:
Average throughput: 226.15 Mbit/s
95th percentile per-packet one-way delay: 241.161 ms
Loss rate: 3.35%
-- Flow 2:
Average throughput: 185.46 Mbit/s
95th percentile per-packet one-way delay: 200.385 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 155.05 Mbit/s
95th percentile per-packet one-way delay: 146.724 ms
Loss rate: 3.82%
```

Run 3: Report of PCC-Expr — Data Link

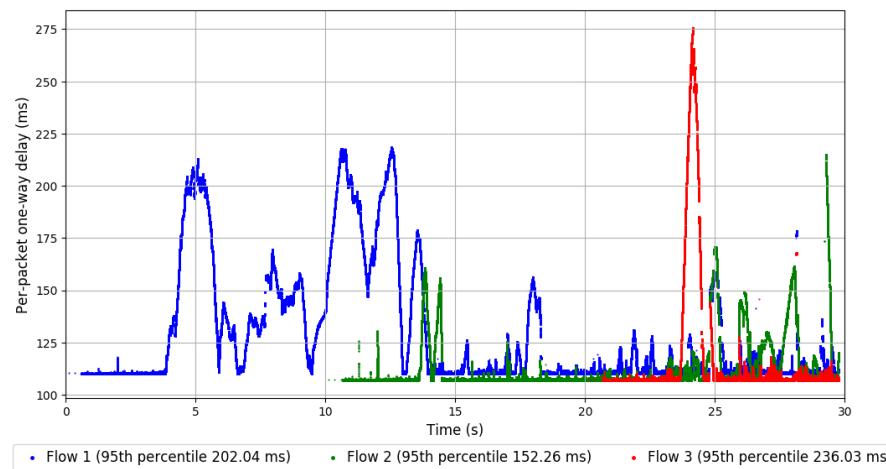
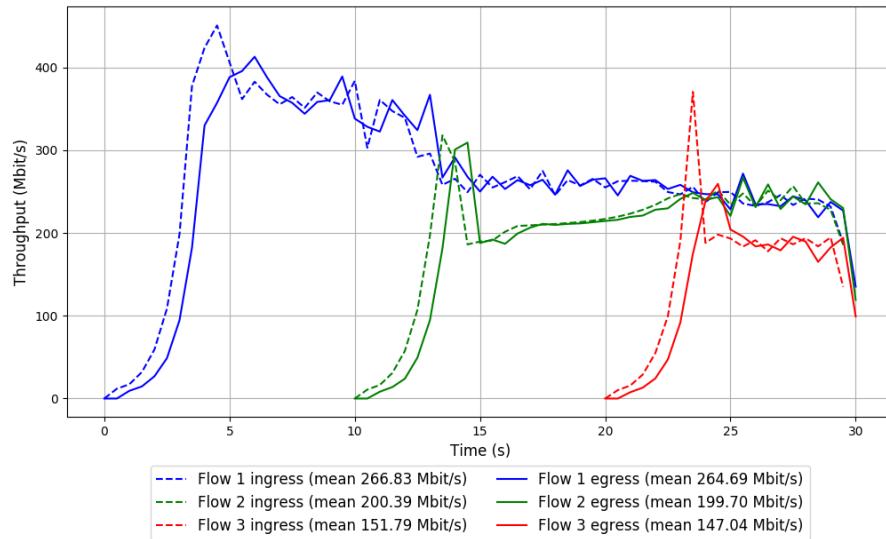


Run 4: Statistics of PCC-Expr

```
Start at: 2019-06-27 07:32:28
End at: 2019-06-27 07:32:58
Local clock offset: 0.049 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-06-27 10:41:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 444.77 Mbit/s
95th percentile per-packet one-way delay: 199.172 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 264.69 Mbit/s
95th percentile per-packet one-way delay: 202.041 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 199.70 Mbit/s
95th percentile per-packet one-way delay: 152.256 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 147.04 Mbit/s
95th percentile per-packet one-way delay: 236.035 ms
Loss rate: 5.28%
```

Run 4: Report of PCC-Expr — Data Link

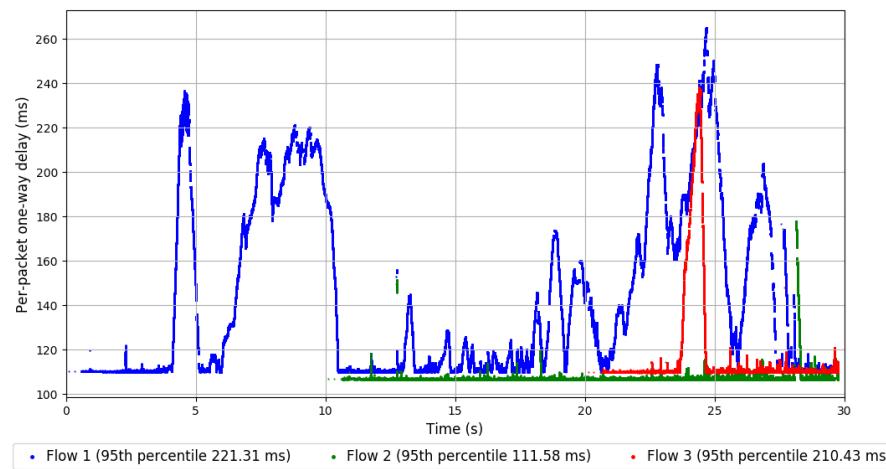
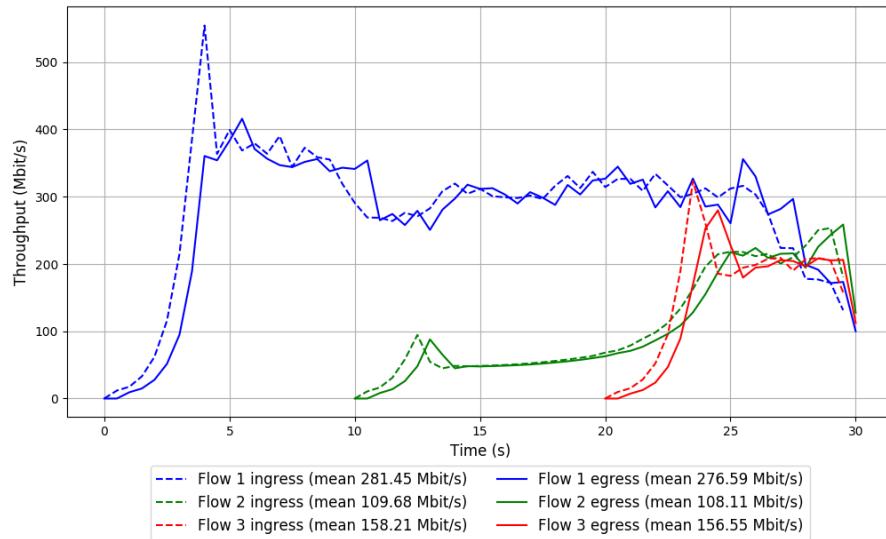


Run 5: Statistics of PCC-Expr

```
Start at: 2019-06-27 08:10:44
End at: 2019-06-27 08:11:14
Local clock offset: -0.088 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.09 Mbit/s
95th percentile per-packet one-way delay: 216.977 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 276.59 Mbit/s
95th percentile per-packet one-way delay: 221.311 ms
Loss rate: 2.46%
-- Flow 2:
Average throughput: 108.11 Mbit/s
95th percentile per-packet one-way delay: 111.583 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 156.55 Mbit/s
95th percentile per-packet one-way delay: 210.426 ms
Loss rate: 3.25%
```

Run 5: Report of PCC-Expr — Data Link

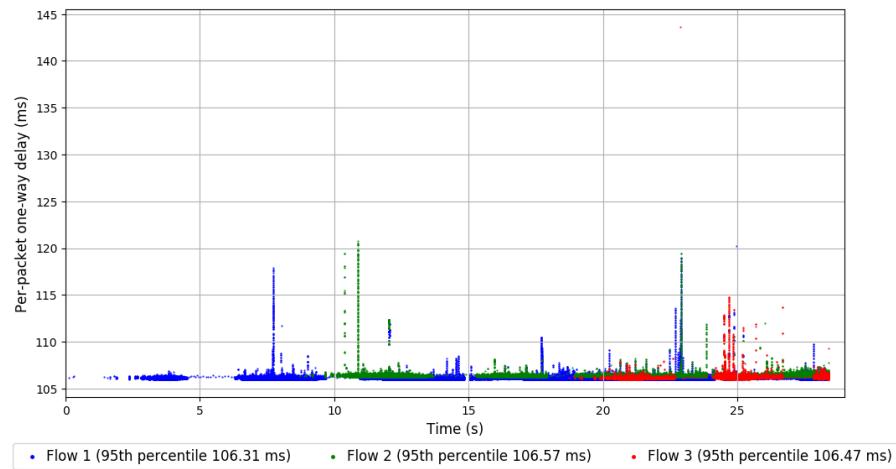
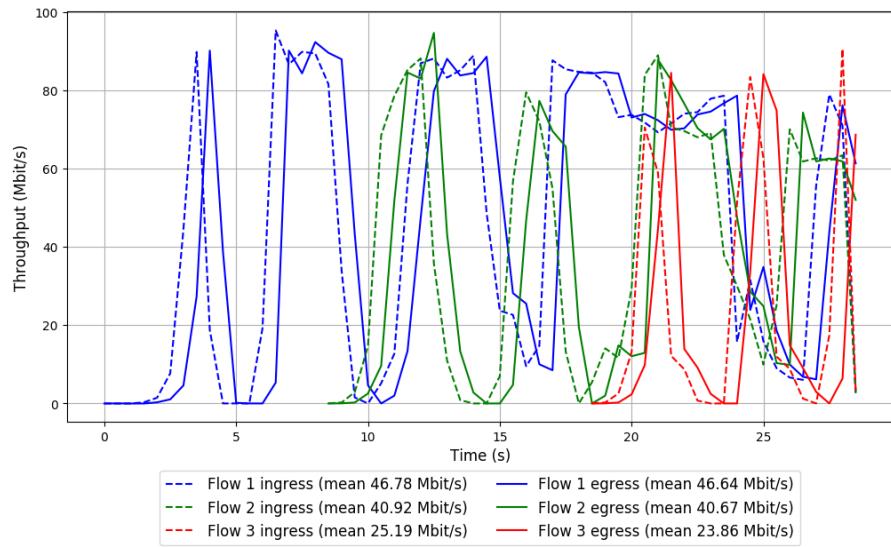


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-06-27 05:54:44
End at: 2019-06-27 05:55:14
Local clock offset: -0.074 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.06 Mbit/s
95th percentile per-packet one-way delay: 106.485 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 46.64 Mbit/s
95th percentile per-packet one-way delay: 106.306 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 106.566 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 23.86 Mbit/s
95th percentile per-packet one-way delay: 106.470 ms
Loss rate: 7.30%
```

Run 1: Report of QUIC Cubic — Data Link

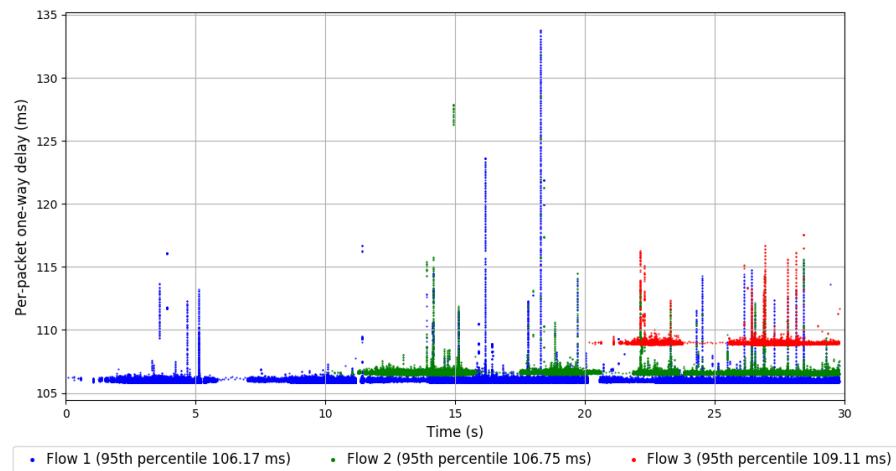
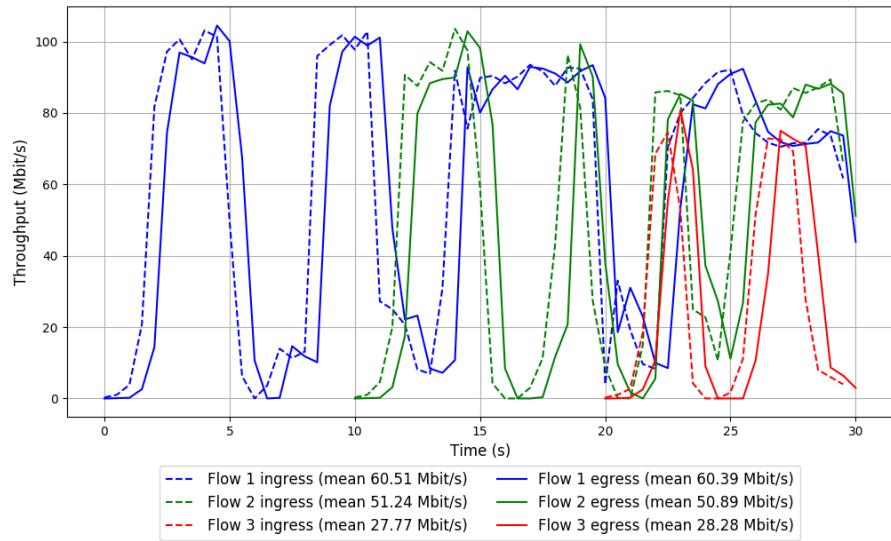


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-06-27 06:33:08
End at: 2019-06-27 06:33:38
Local clock offset: -0.195 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.29 Mbit/s
95th percentile per-packet one-way delay: 108.928 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 60.39 Mbit/s
95th percentile per-packet one-way delay: 106.165 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 50.89 Mbit/s
95th percentile per-packet one-way delay: 106.752 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 28.28 Mbit/s
95th percentile per-packet one-way delay: 109.115 ms
Loss rate: 0.40%
```

Run 2: Report of QUIC Cubic — Data Link

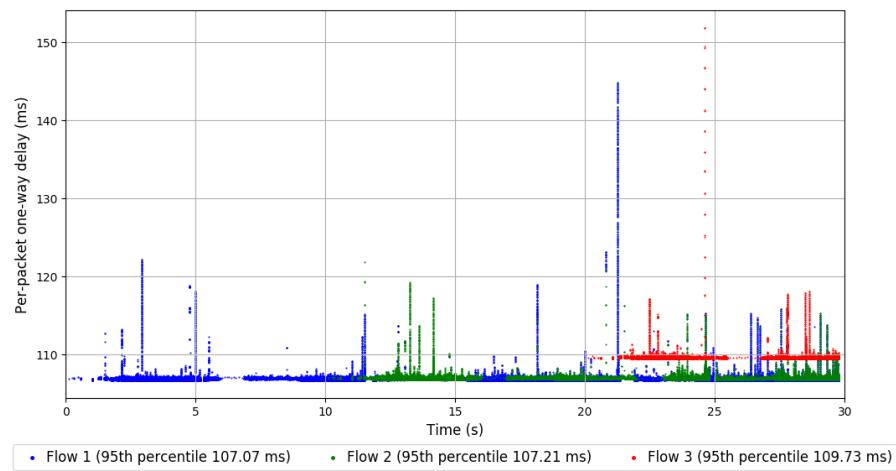
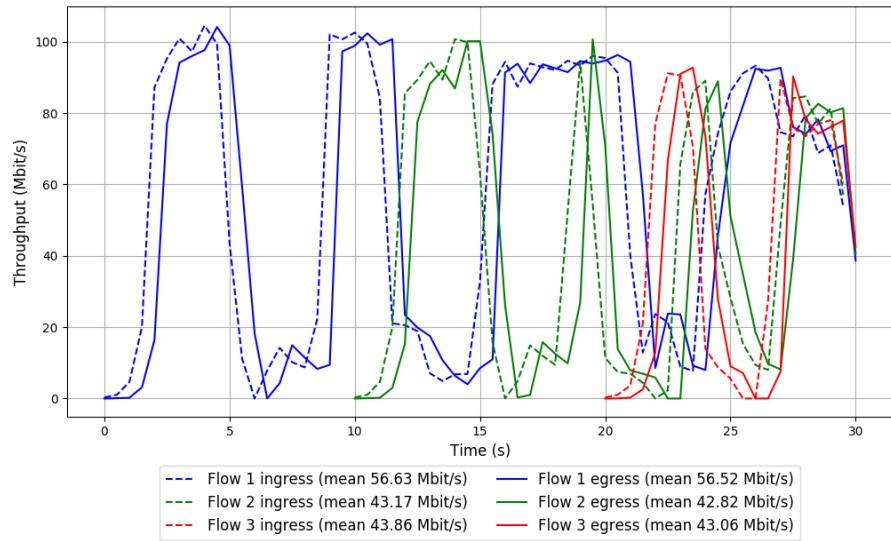


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-06-27 07:10:32
End at: 2019-06-27 07:11:02
Local clock offset: -0.006 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.90 Mbit/s
95th percentile per-packet one-way delay: 109.586 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 56.52 Mbit/s
95th percentile per-packet one-way delay: 107.071 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 42.82 Mbit/s
95th percentile per-packet one-way delay: 107.206 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 43.06 Mbit/s
95th percentile per-packet one-way delay: 109.735 ms
Loss rate: 4.01%
```

Run 3: Report of QUIC Cubic — Data Link

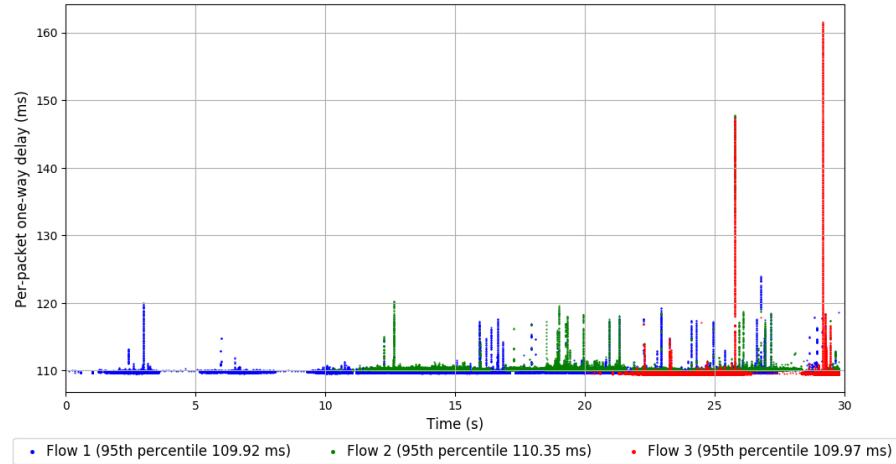
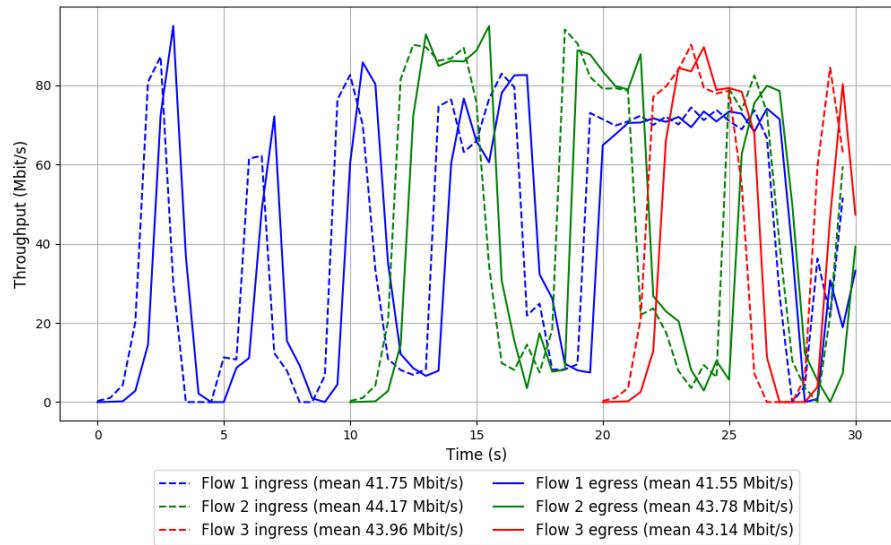


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-06-27 07:48:57
End at: 2019-06-27 07:49:27
Local clock offset: -0.149 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 110.265 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 41.55 Mbit/s
95th percentile per-packet one-way delay: 109.921 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 43.78 Mbit/s
95th percentile per-packet one-way delay: 110.348 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 43.14 Mbit/s
95th percentile per-packet one-way delay: 109.973 ms
Loss rate: 4.04%
```

Run 4: Report of QUIC Cubic — Data Link

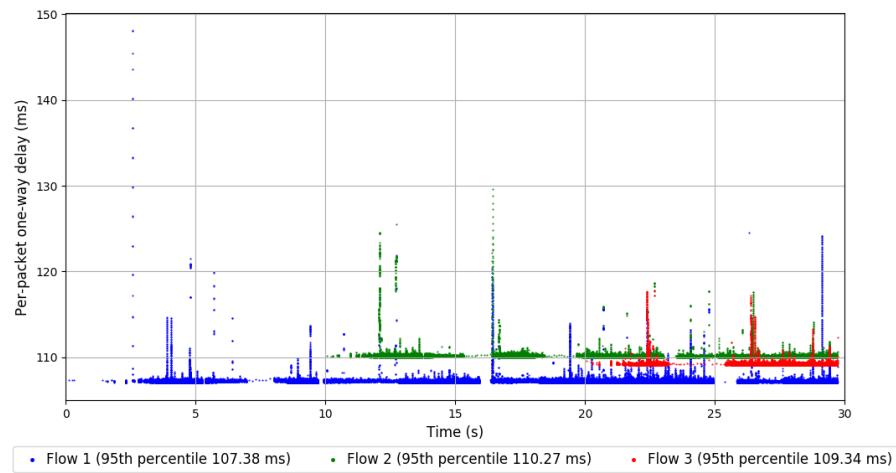
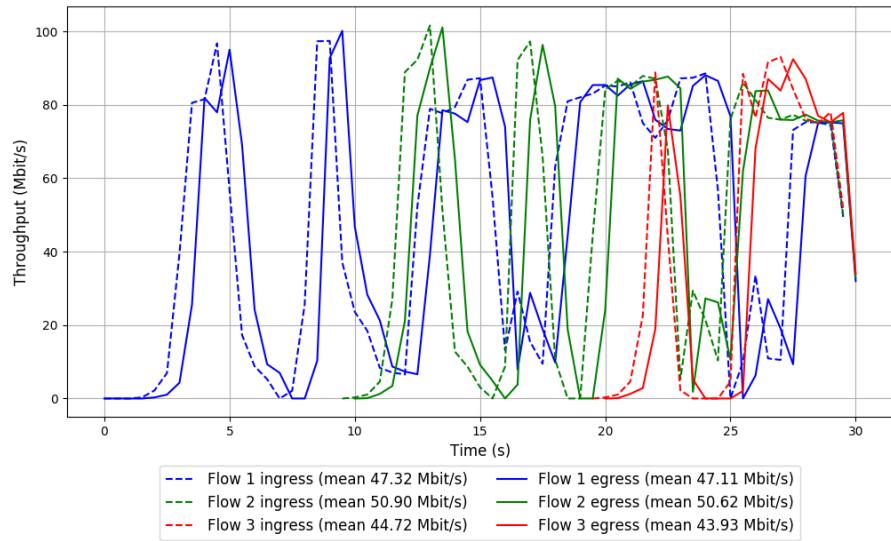


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-06-27 08:27:24
End at: 2019-06-27 08:27:54
Local clock offset: 0.054 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.04 Mbit/s
95th percentile per-packet one-way delay: 110.175 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 47.11 Mbit/s
95th percentile per-packet one-way delay: 107.382 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 50.62 Mbit/s
95th percentile per-packet one-way delay: 110.269 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 43.93 Mbit/s
95th percentile per-packet one-way delay: 109.342 ms
Loss rate: 3.93%
```

Run 5: Report of QUIC Cubic — Data Link

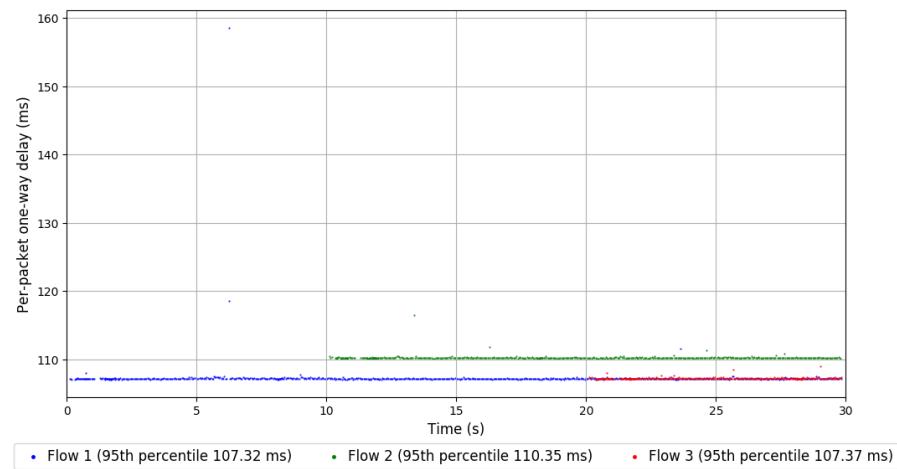
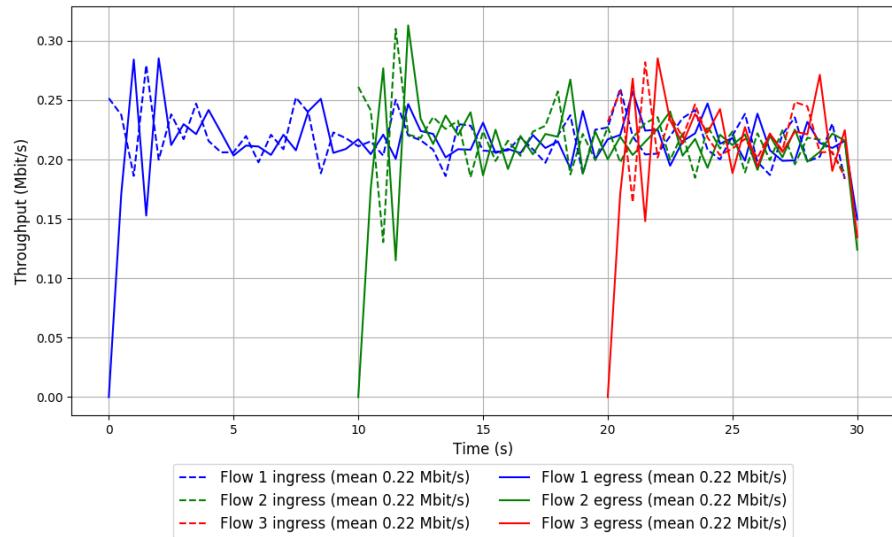


```
Run 1: Statistics of SCReAM

Start at: 2019-06-27 05:28:17
End at: 2019-06-27 05:28:47
Local clock offset: -0.011 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 110.271 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.316 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.353 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.366 ms
Loss rate: 1.88%
```

Run 1: Report of SCReAM — Data Link

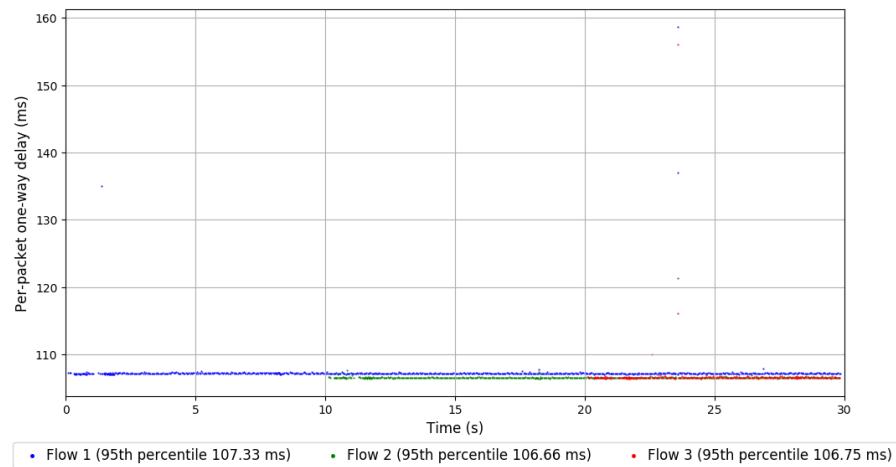
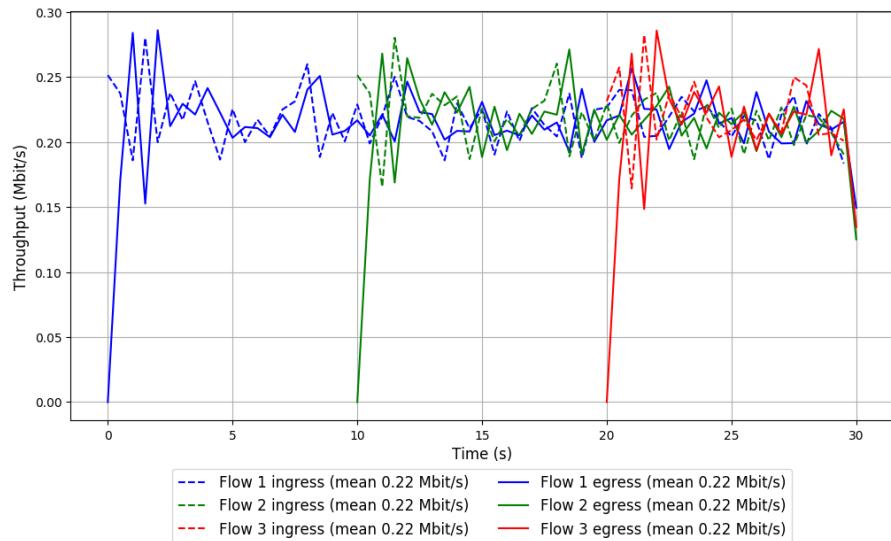


Run 2: Statistics of SCReAM

```
Start at: 2019-06-27 06:05:48
End at: 2019-06-27 06:06:18
Local clock offset: -0.115 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 107.299 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.332 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.664 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.751 ms
Loss rate: 2.22%
```

Run 2: Report of SCReAM — Data Link

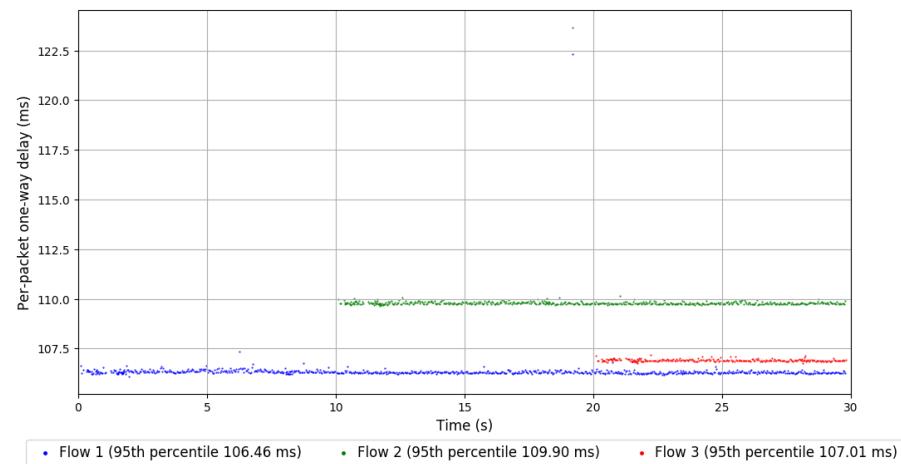
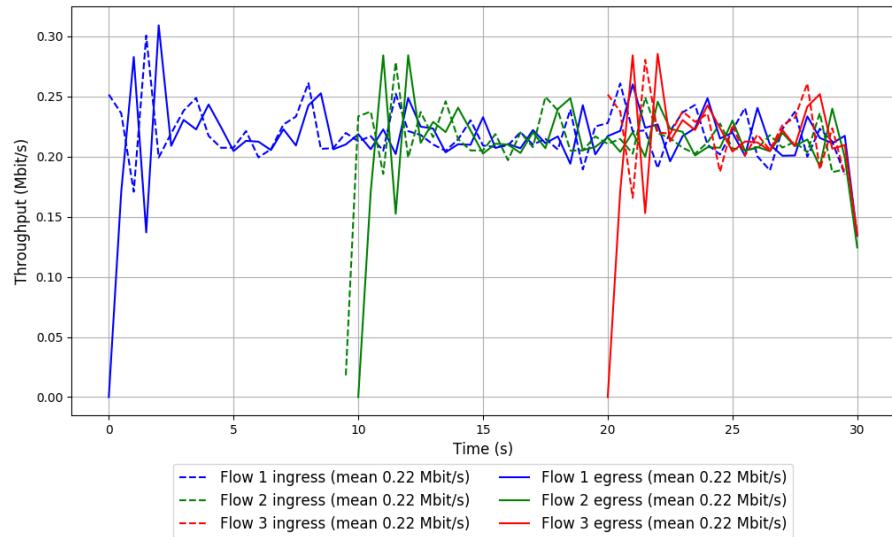


Run 3: Statistics of SCReAM

```
Start at: 2019-06-27 06:44:07
End at: 2019-06-27 06:44:37
Local clock offset: -0.045 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.856 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.464 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.903 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.009 ms
Loss rate: 2.22%
```

Run 3: Report of SCReAM — Data Link

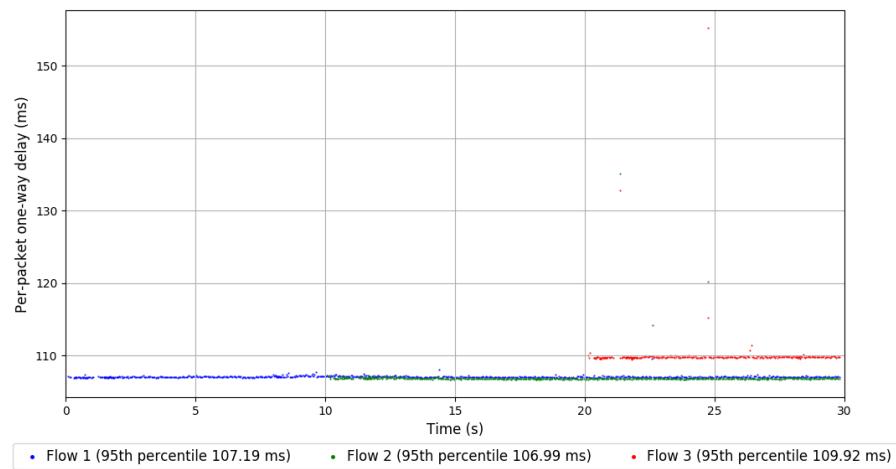
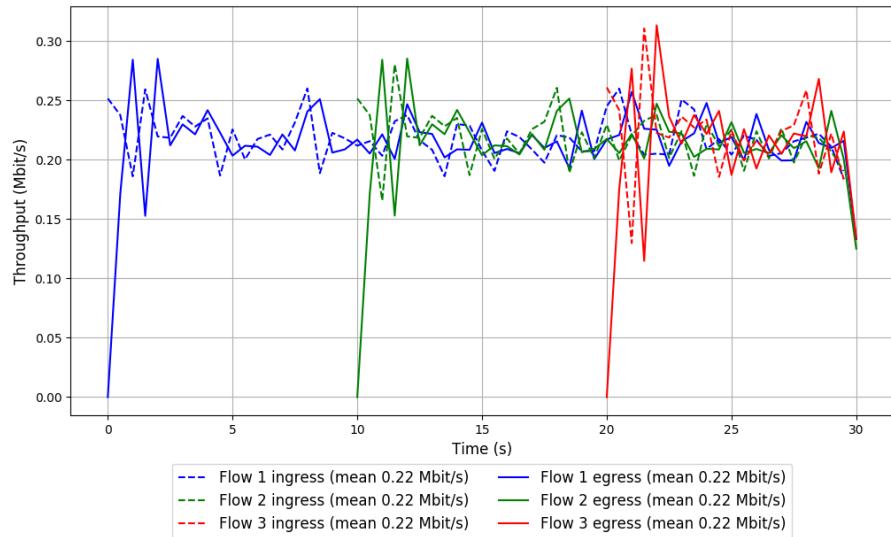


Run 4: Statistics of SCReAM

```
Start at: 2019-06-27 07:21:32
End at: 2019-06-27 07:22:02
Local clock offset: -0.173 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.786 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.193 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.987 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.924 ms
Loss rate: 2.22%
```

Run 4: Report of SCReAM — Data Link

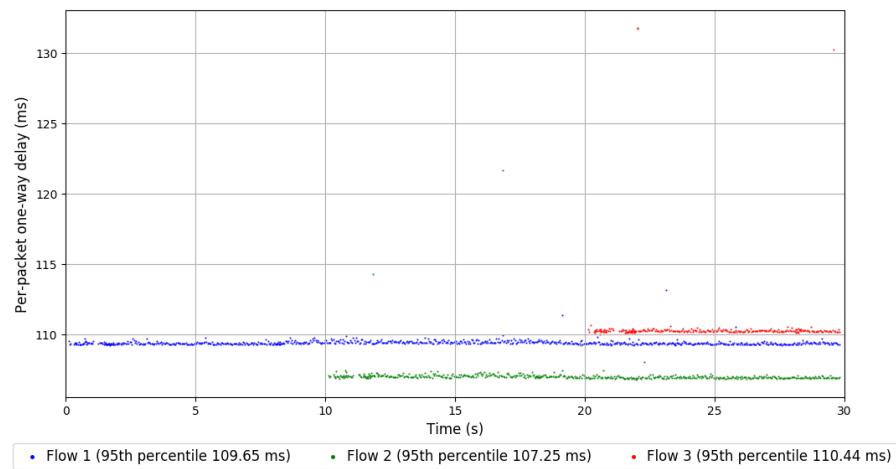
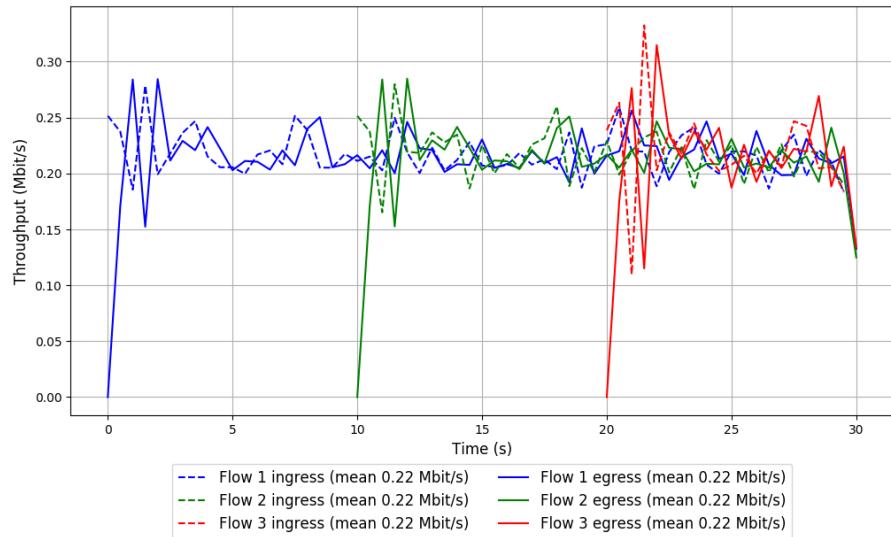


Run 5: Statistics of SCReAM

```
Start at: 2019-06-27 07:59:54
End at: 2019-06-27 08:00:24
Local clock offset: -0.059 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 110.321 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.651 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.254 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.437 ms
Loss rate: 1.87%
```

Run 5: Report of SCReAM — Data Link

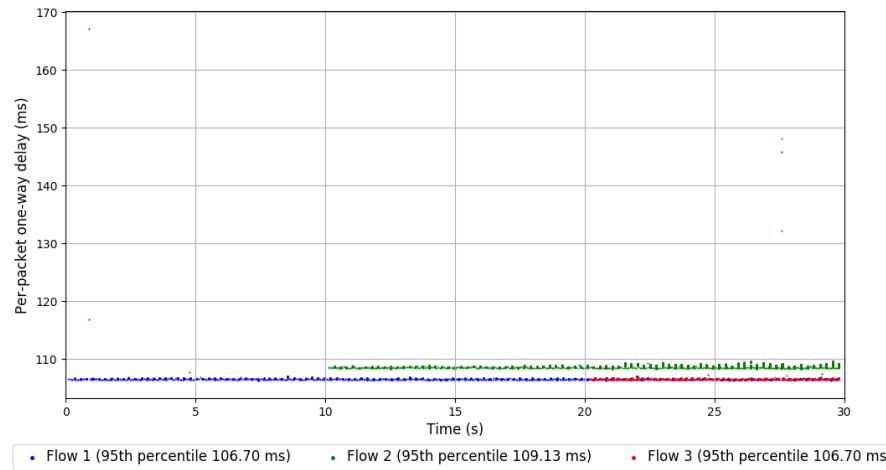
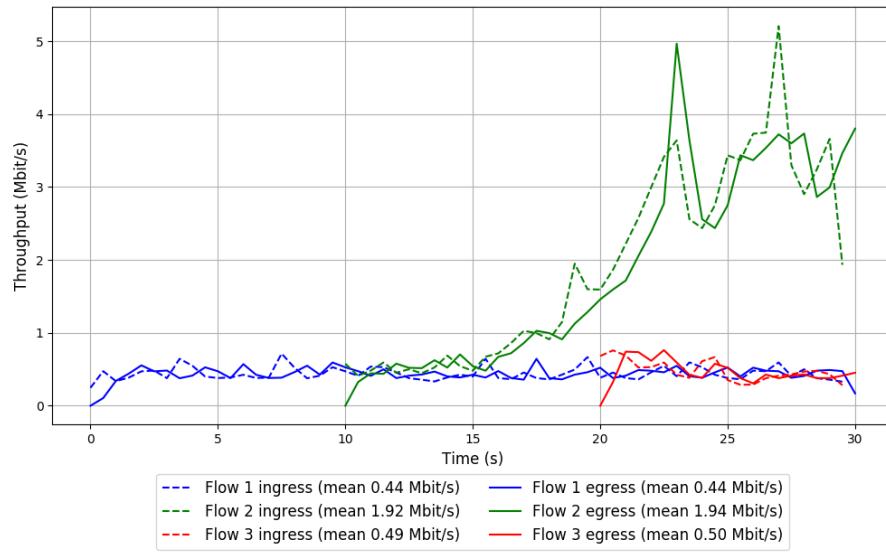


Run 1: Statistics of Sprout

```
Start at: 2019-06-27 05:40:26
End at: 2019-06-27 05:40:56
Local clock offset: -0.723 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 109.074 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 106.701 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 109.128 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 106.696 ms
Loss rate: 0.44%
```

Run 1: Report of Sprout — Data Link

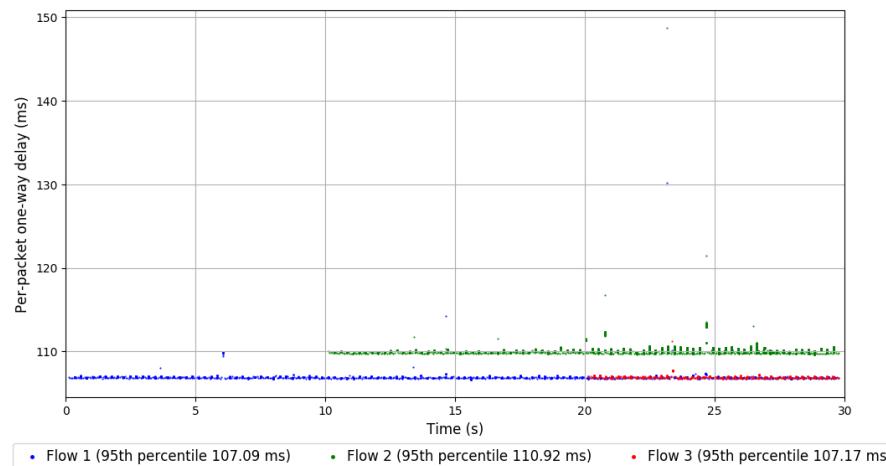
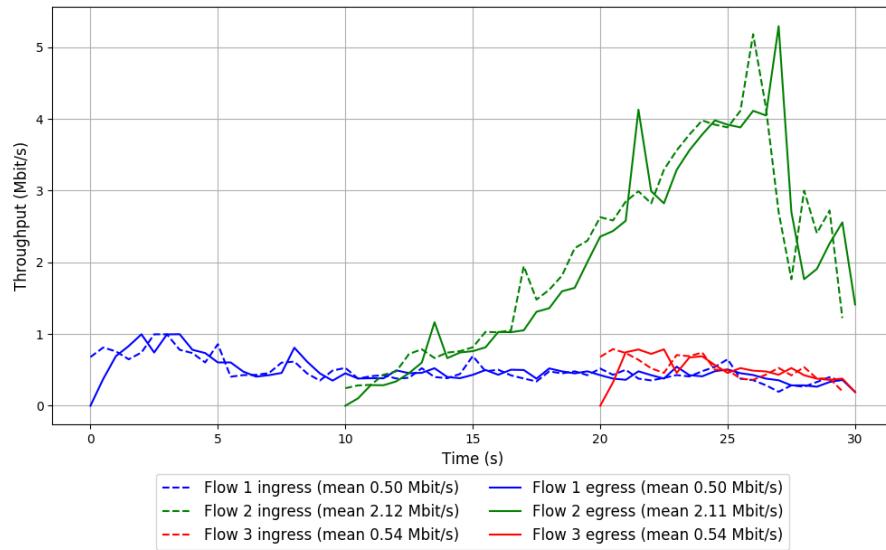


Run 2: Statistics of Sprout

```
Start at: 2019-06-27 06:18:30
End at: 2019-06-27 06:19:00
Local clock offset: -0.189 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 110.514 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 107.087 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 110.916 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 107.169 ms
Loss rate: 1.86%
```

Run 2: Report of Sprout — Data Link

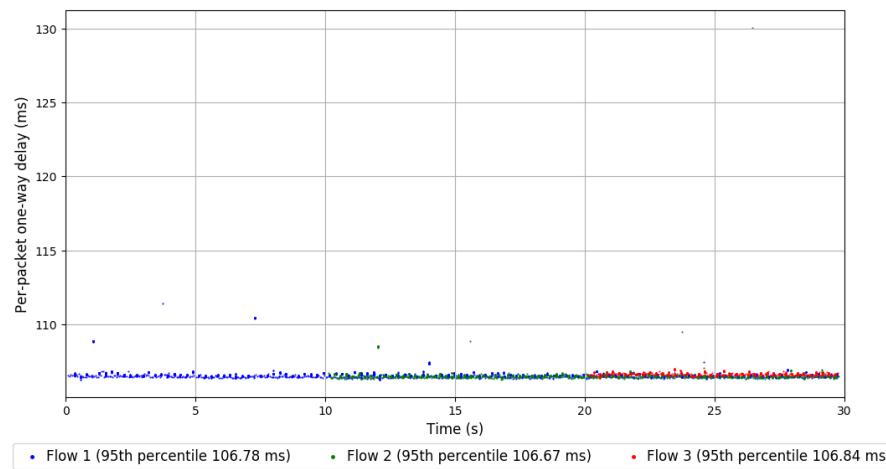
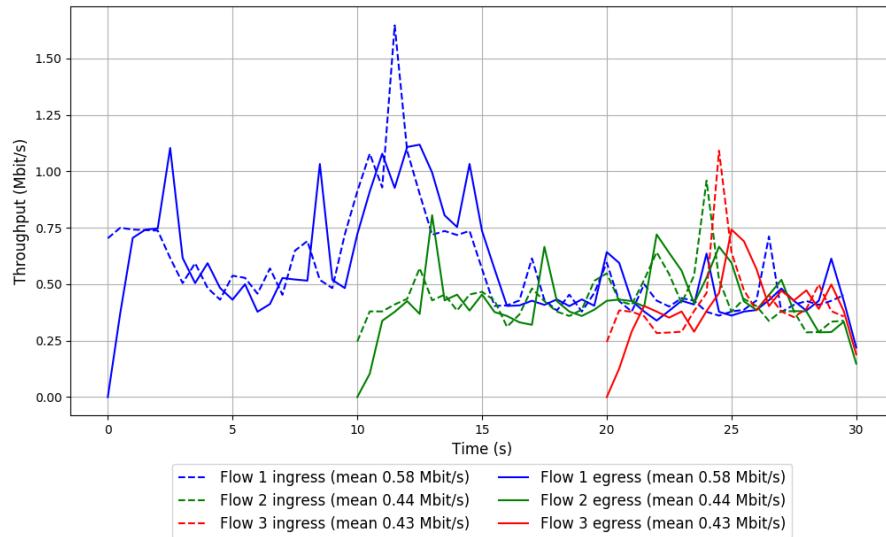


Run 3: Statistics of Sprout

```
Start at: 2019-06-27 06:56:27
End at: 2019-06-27 06:56:57
Local clock offset: -0.02 ms
Remote clock offset: 0.236 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 106.785 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 106.782 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 106.665 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 106.836 ms
Loss rate: 2.02%
```

Run 3: Report of Sprout — Data Link

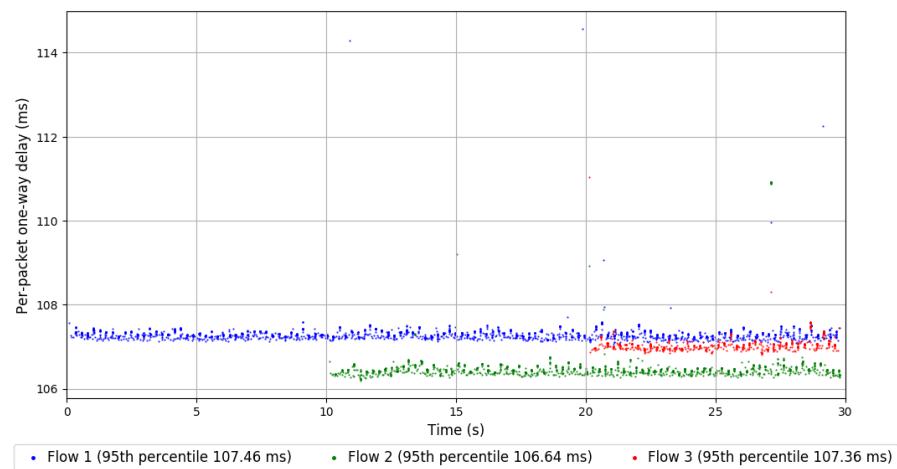
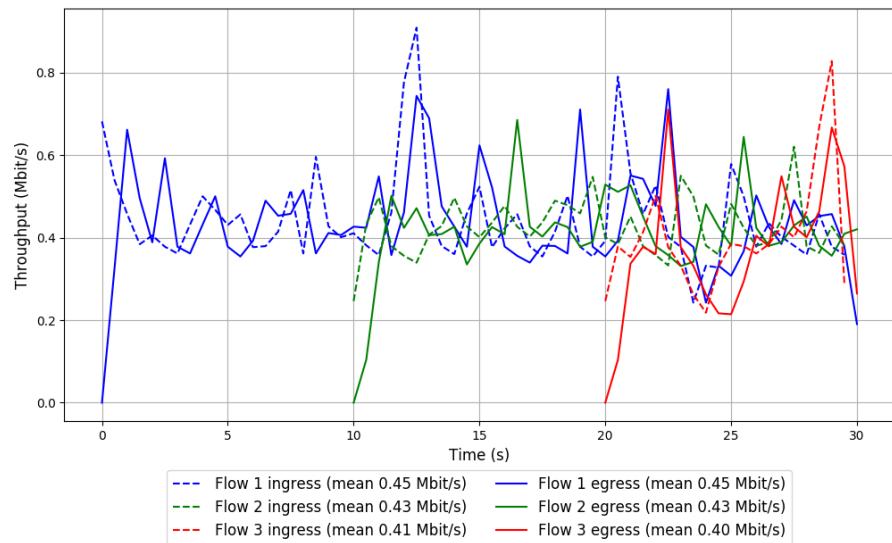


Run 4: Statistics of Sprout

```
Start at: 2019-06-27 07:34:33
End at: 2019-06-27 07:35:03
Local clock offset: 0.198 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 107.433 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 107.464 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 106.636 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 107.356 ms
Loss rate: 3.55%
```

Run 4: Report of Sprout — Data Link

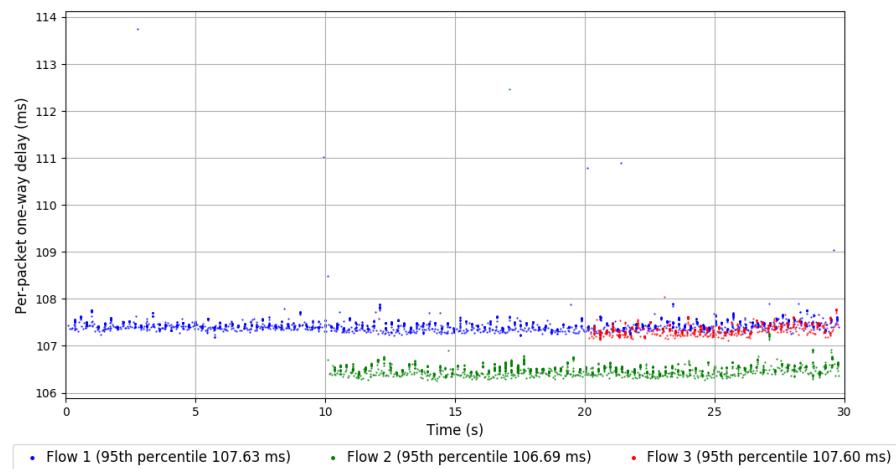
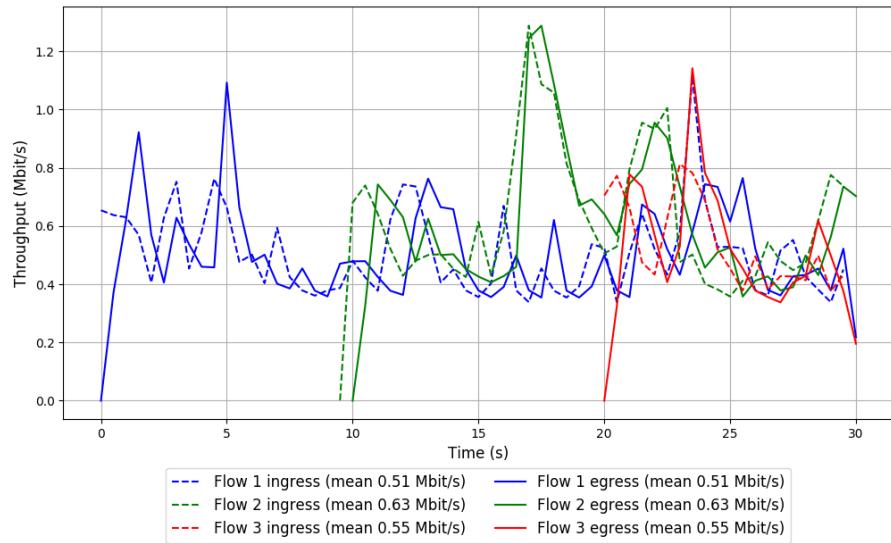


Run 5: Statistics of Sprout

```
Start at: 2019-06-27 08:12:43
End at: 2019-06-27 08:13:13
Local clock offset: 0.072 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 107.585 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 107.626 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 106.691 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 107.598 ms
Loss rate: 2.22%
```

Run 5: Report of Sprout — Data Link

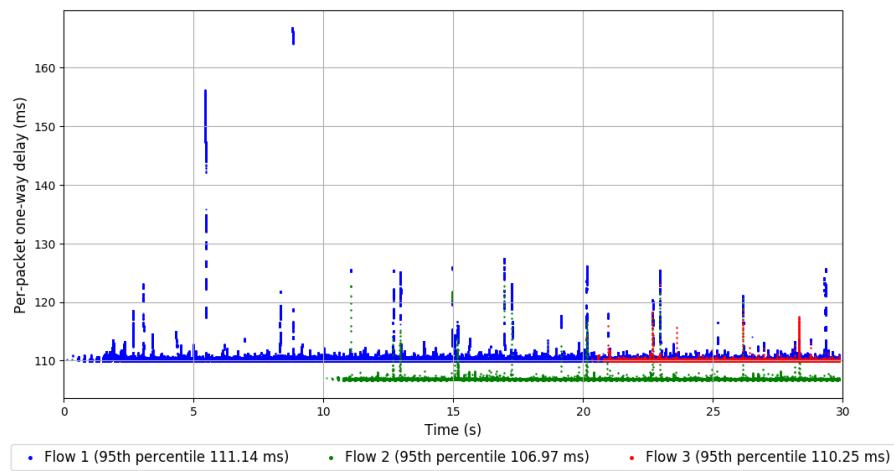
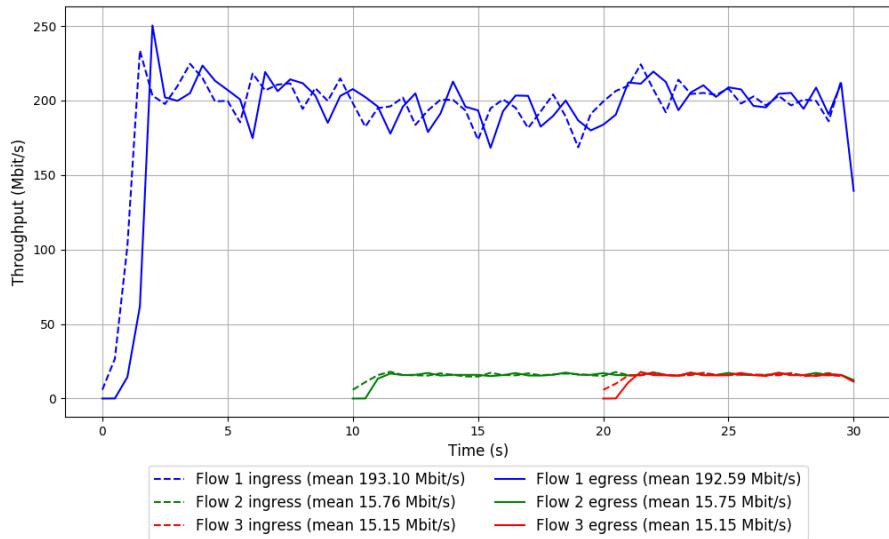


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-06-27 05:36:48
End at: 2019-06-27 05:37:18
Local clock offset: -0.006 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-06-27 10:41:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.00 Mbit/s
95th percentile per-packet one-way delay: 111.070 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 192.59 Mbit/s
95th percentile per-packet one-way delay: 111.145 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 15.75 Mbit/s
95th percentile per-packet one-way delay: 106.970 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 110.249 ms
Loss rate: 2.26%
```

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

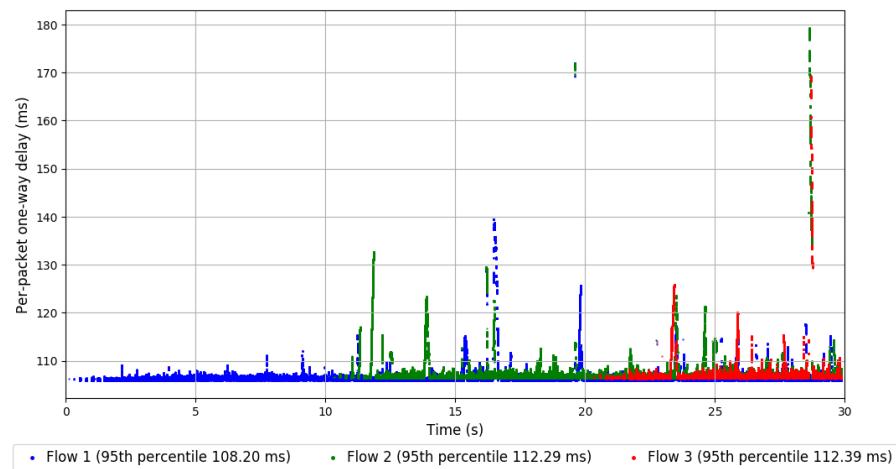
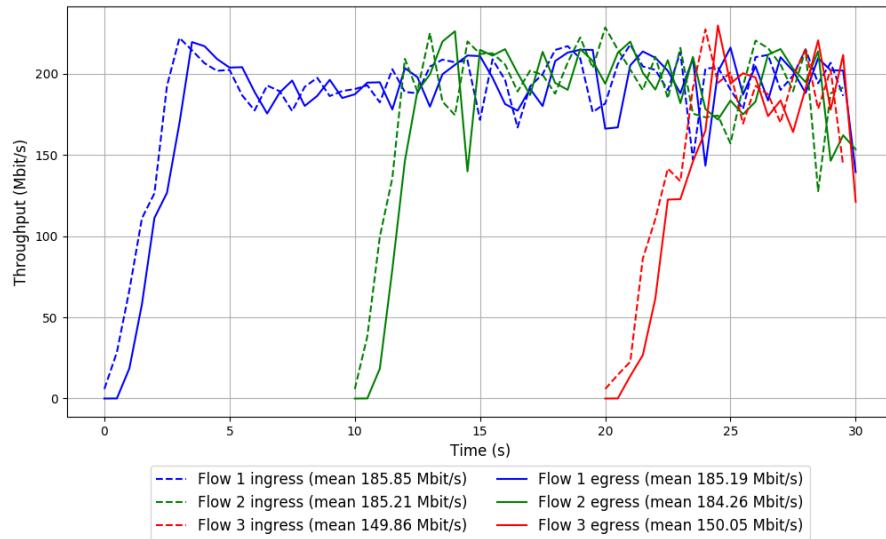


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-06-27 06:14:37
End at: 2019-06-27 06:15:07
Local clock offset: -0.059 ms
Remote clock offset: 0.327 ms

# Below is generated by plot.py at 2019-06-27 10:47:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.56 Mbit/s
95th percentile per-packet one-way delay: 110.050 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 185.19 Mbit/s
95th percentile per-packet one-way delay: 108.199 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 184.26 Mbit/s
95th percentile per-packet one-way delay: 112.293 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 150.05 Mbit/s
95th percentile per-packet one-way delay: 112.389 ms
Loss rate: 2.07%
```

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

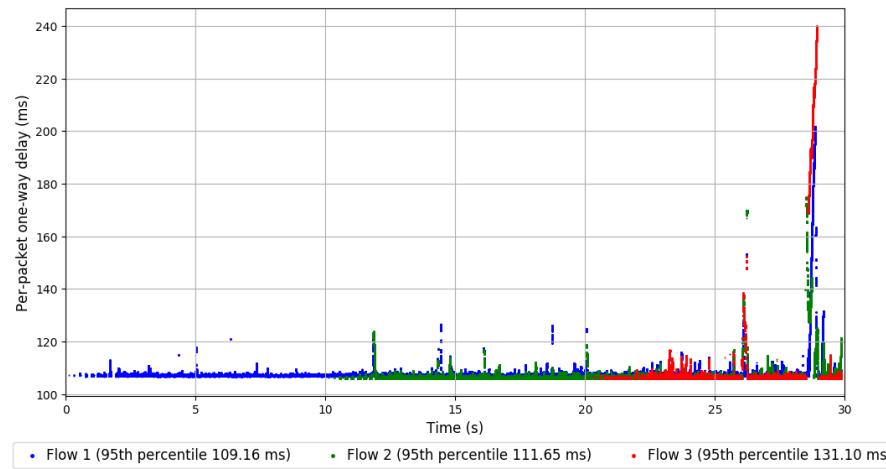
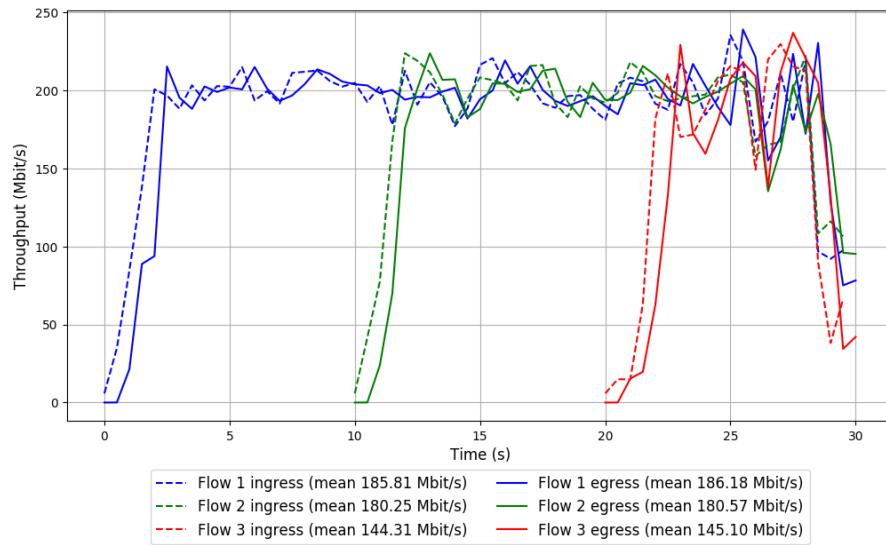


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-06-27 06:52:30
End at: 2019-06-27 06:53:00
Local clock offset: 0.018 ms
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-06-27 10:47:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.56 Mbit/s
95th percentile per-packet one-way delay: 110.376 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 186.18 Mbit/s
95th percentile per-packet one-way delay: 109.163 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 180.57 Mbit/s
95th percentile per-packet one-way delay: 111.647 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 145.10 Mbit/s
95th percentile per-packet one-way delay: 131.098 ms
Loss rate: 1.65%
```

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

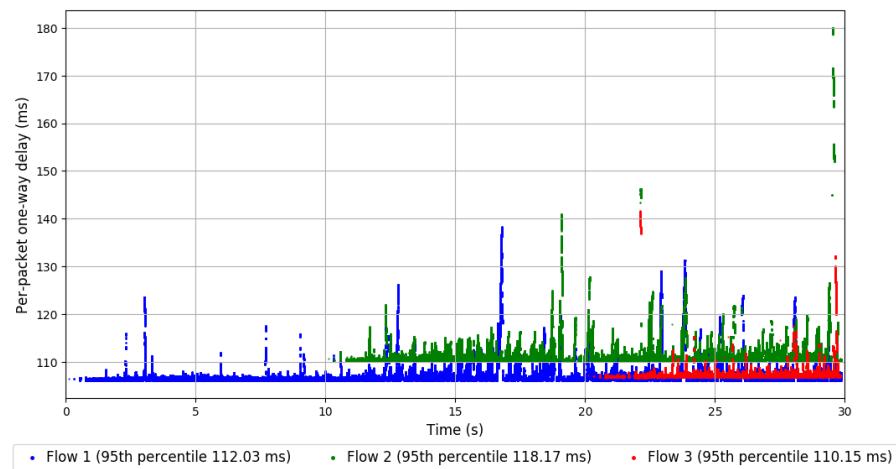
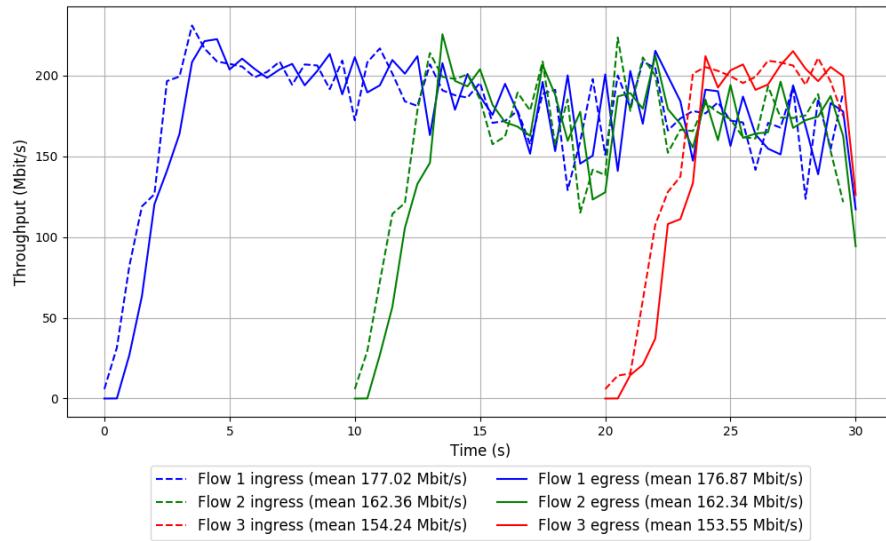


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-06-27 07:30:34
End at: 2019-06-27 07:31:04
Local clock offset: 0.178 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-06-27 10:47:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.62 Mbit/s
95th percentile per-packet one-way delay: 114.890 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 176.87 Mbit/s
95th percentile per-packet one-way delay: 112.033 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 162.34 Mbit/s
95th percentile per-packet one-way delay: 118.167 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 153.55 Mbit/s
95th percentile per-packet one-way delay: 110.146 ms
Loss rate: 3.05%
```

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

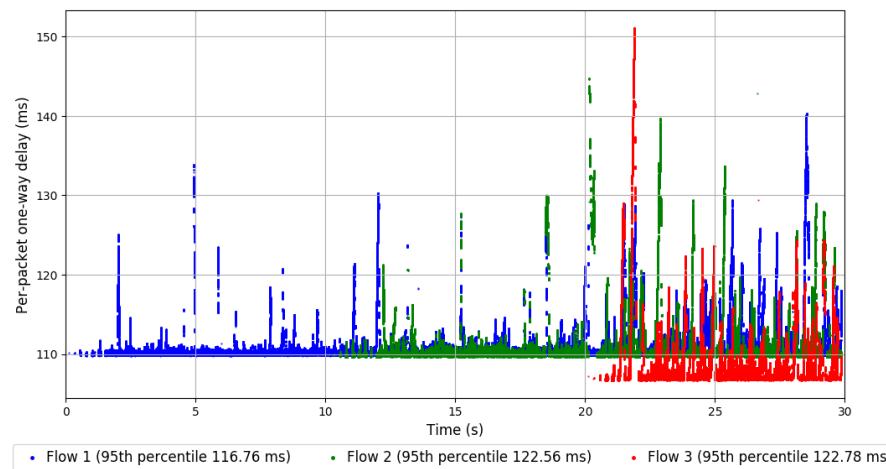
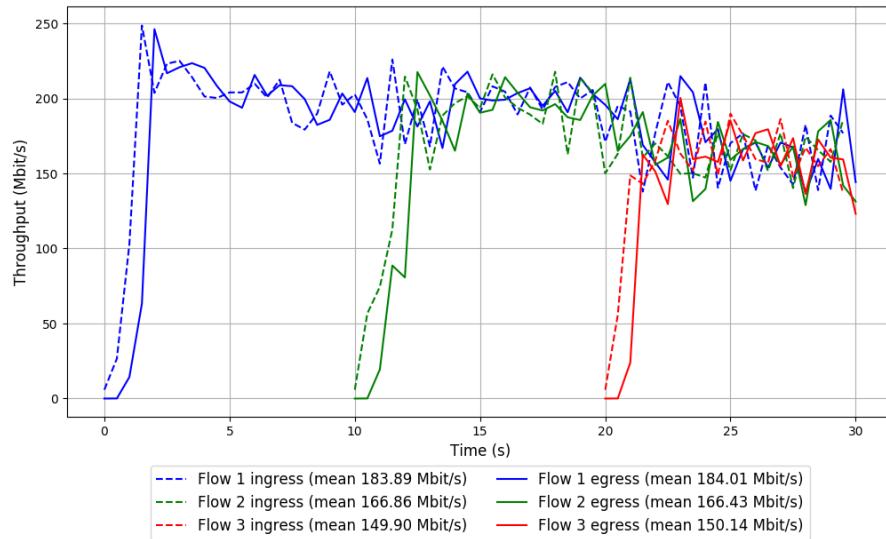


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-06-27 08:08:48
End at: 2019-06-27 08:09:18
Local clock offset: -0.218 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-06-27 10:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 343.58 Mbit/s
95th percentile per-packet one-way delay: 118.929 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 184.01 Mbit/s
95th percentile per-packet one-way delay: 116.764 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 166.43 Mbit/s
95th percentile per-packet one-way delay: 122.558 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 150.14 Mbit/s
95th percentile per-packet one-way delay: 122.775 ms
Loss rate: 2.03%
```

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

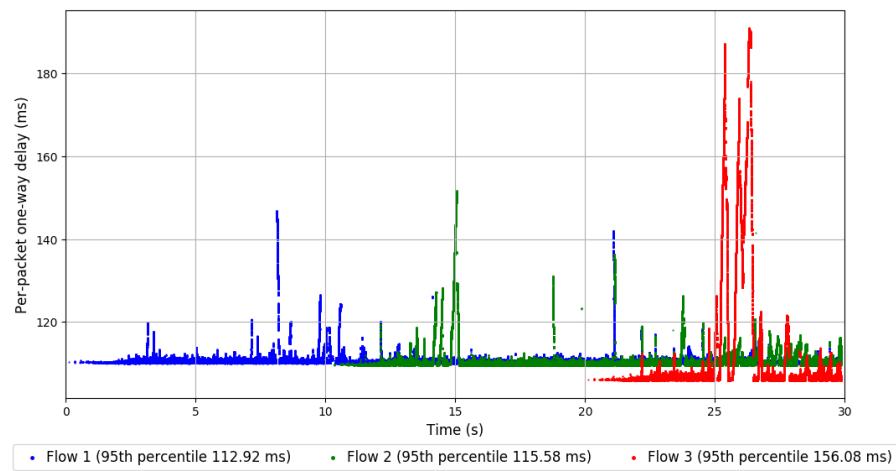
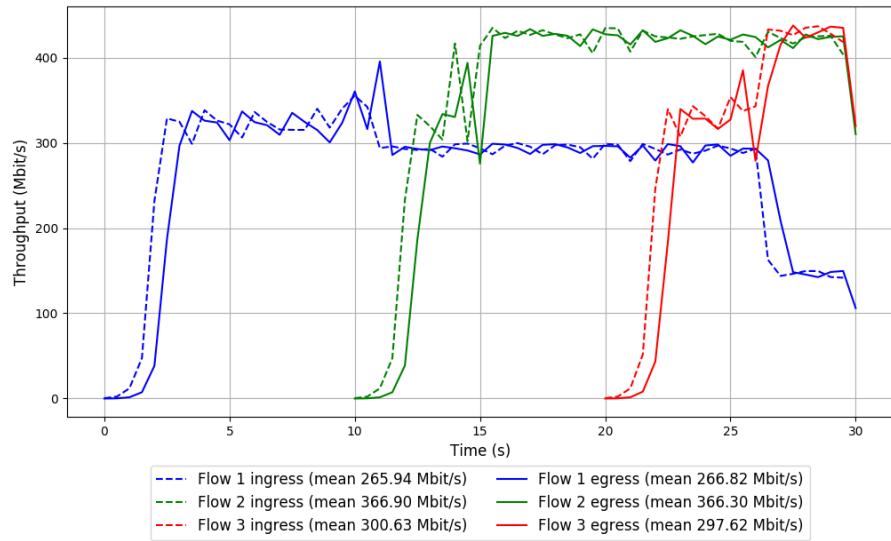


Run 1: Statistics of TCP Vegas

```
Start at: 2019-06-27 05:51:03
End at: 2019-06-27 05:51:33
Local clock offset: -0.203 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-06-27 10:49:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 607.36 Mbit/s
95th percentile per-packet one-way delay: 117.430 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 266.82 Mbit/s
95th percentile per-packet one-way delay: 112.915 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 366.30 Mbit/s
95th percentile per-packet one-way delay: 115.577 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 297.62 Mbit/s
95th percentile per-packet one-way delay: 156.076 ms
Loss rate: 3.15%
```

Run 1: Report of TCP Vegas — Data Link

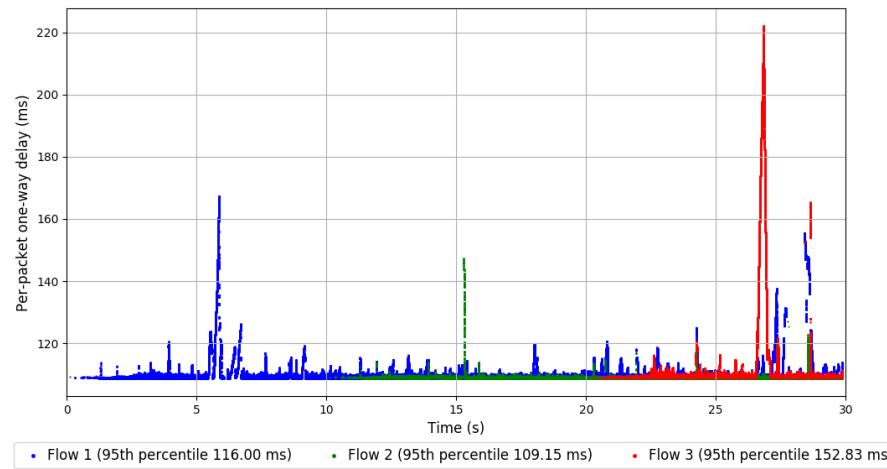
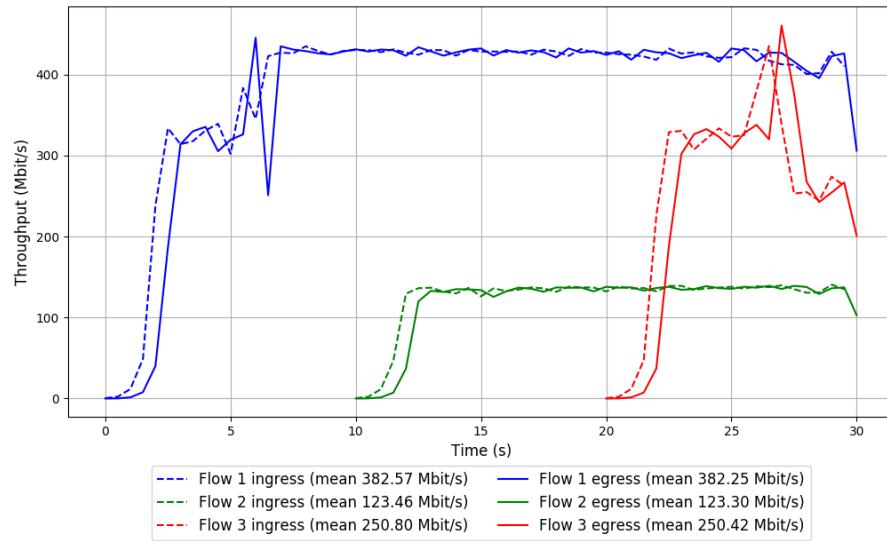


Run 2: Statistics of TCP Vegas

```
Start at: 2019-06-27 06:29:25
End at: 2019-06-27 06:29:55
Local clock offset: -0.799 ms
Remote clock offset: 0.347 ms

# Below is generated by plot.py at 2019-06-27 10:53:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 546.08 Mbit/s
95th percentile per-packet one-way delay: 116.262 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 382.25 Mbit/s
95th percentile per-packet one-way delay: 116.002 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 123.30 Mbit/s
95th percentile per-packet one-way delay: 109.146 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 250.42 Mbit/s
95th percentile per-packet one-way delay: 152.834 ms
Loss rate: 2.36%
```

Run 2: Report of TCP Vegas — Data Link

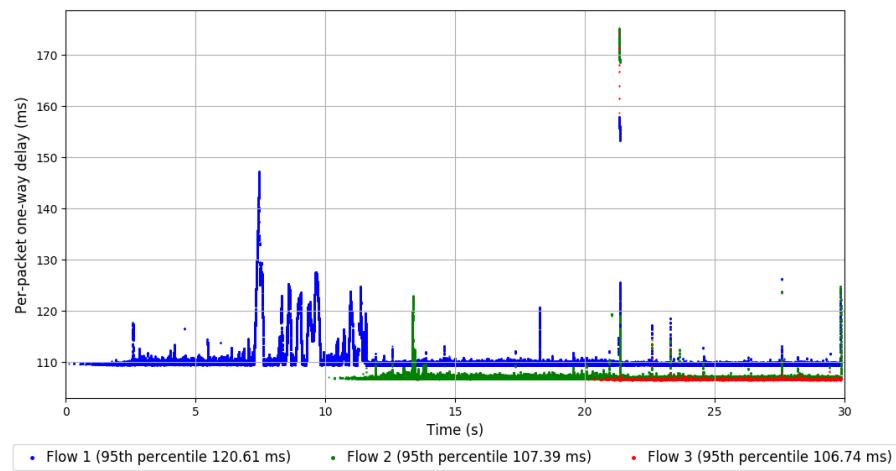
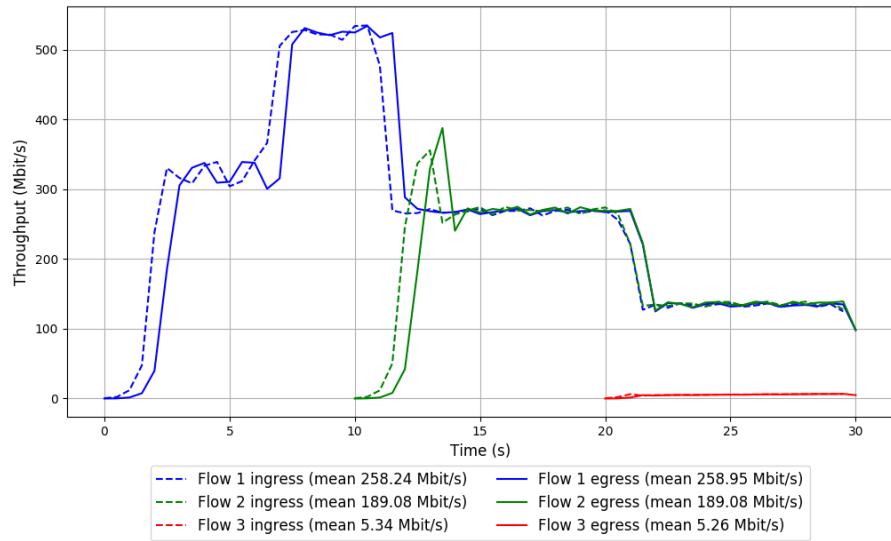


Run 3: Statistics of TCP Vegas

```
Start at: 2019-06-27 07:07:02
End at: 2019-06-27 07:07:32
Local clock offset: -0.301 ms
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2019-06-27 10:53:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.17 Mbit/s
95th percentile per-packet one-way delay: 118.013 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 258.95 Mbit/s
95th percentile per-packet one-way delay: 120.605 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 189.08 Mbit/s
95th percentile per-packet one-way delay: 107.387 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 5.26 Mbit/s
95th percentile per-packet one-way delay: 106.737 ms
Loss rate: 3.73%
```

Run 3: Report of TCP Vegas — Data Link

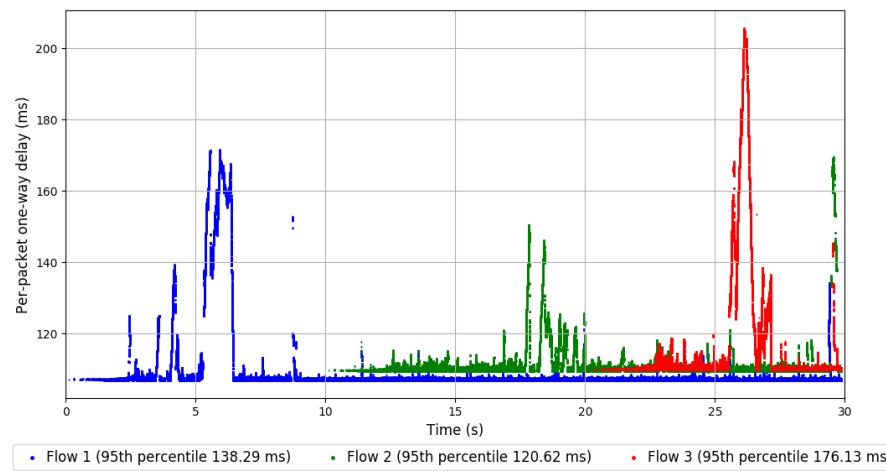
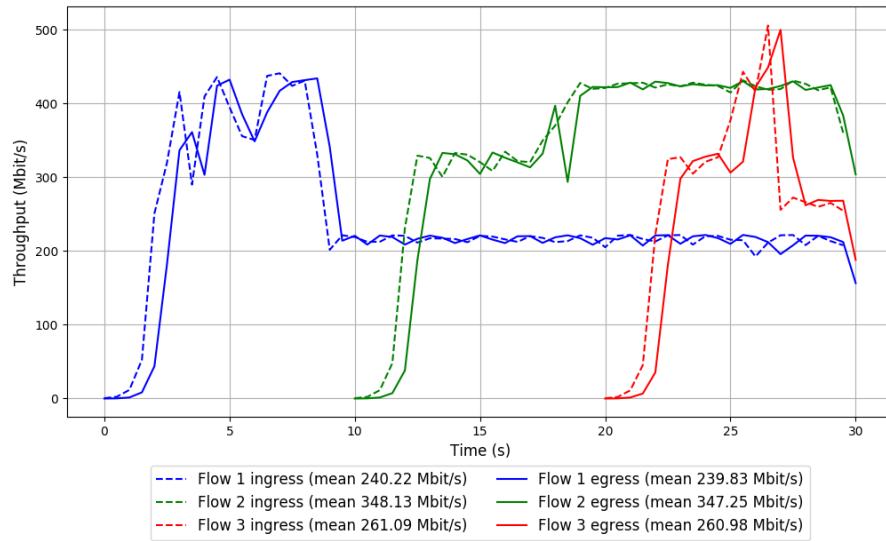


Run 4: Statistics of TCP Vegas

```
Start at: 2019-06-27 07:45:18
End at: 2019-06-27 07:45:48
Local clock offset: -0.114 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-06-27 10:53:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 555.69 Mbit/s
95th percentile per-packet one-way delay: 137.770 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 239.83 Mbit/s
95th percentile per-packet one-way delay: 138.288 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 347.25 Mbit/s
95th percentile per-packet one-way delay: 120.622 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 260.98 Mbit/s
95th percentile per-packet one-way delay: 176.126 ms
Loss rate: 2.27%
```

Run 4: Report of TCP Vegas — Data Link

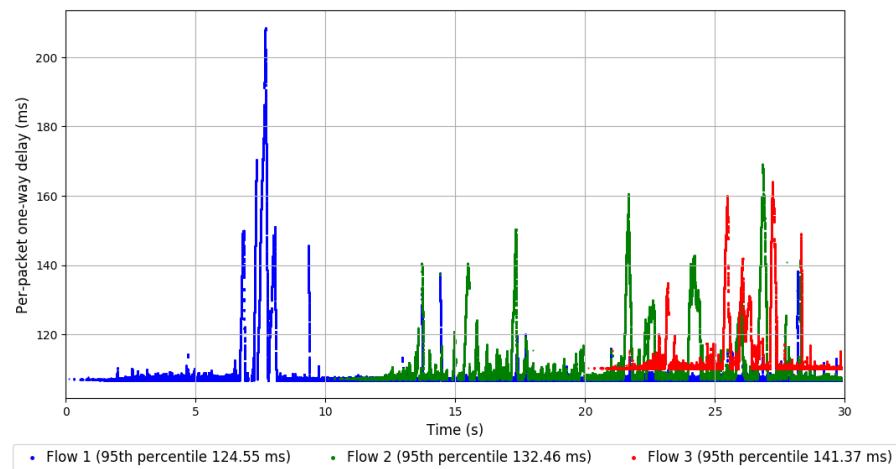
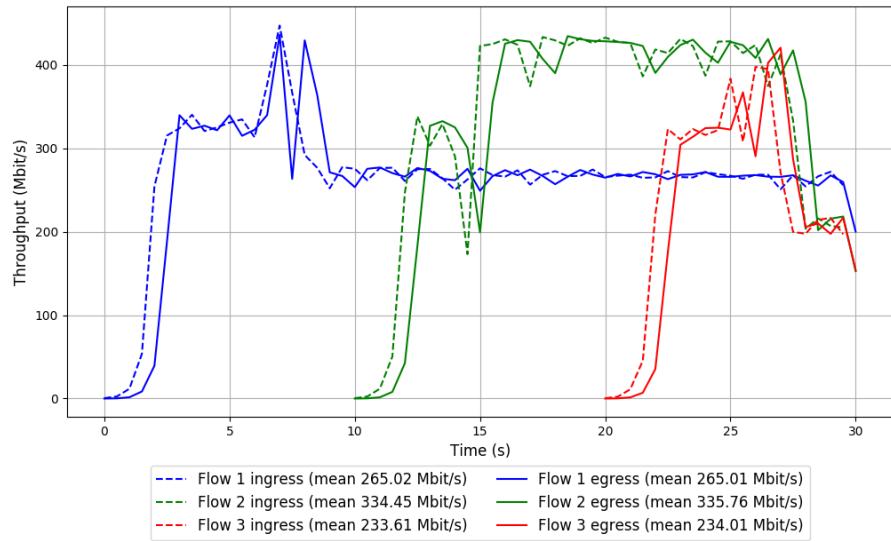


Run 5: Statistics of TCP Vegas

```
Start at: 2019-06-27 08:23:39
End at: 2019-06-27 08:24:09
Local clock offset: -0.012 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-06-27 10:58:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 564.42 Mbit/s
95th percentile per-packet one-way delay: 132.212 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 265.01 Mbit/s
95th percentile per-packet one-way delay: 124.545 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 335.76 Mbit/s
95th percentile per-packet one-way delay: 132.456 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 234.01 Mbit/s
95th percentile per-packet one-way delay: 141.373 ms
Loss rate: 2.03%
```

Run 5: Report of TCP Vegas — Data Link

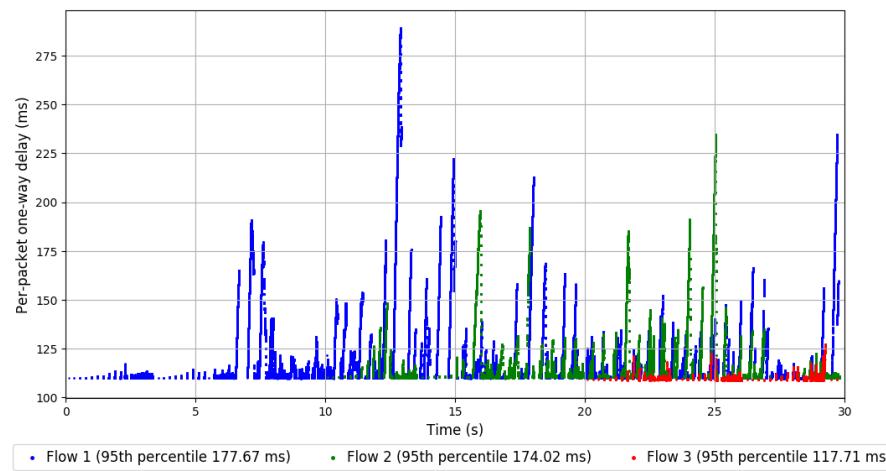
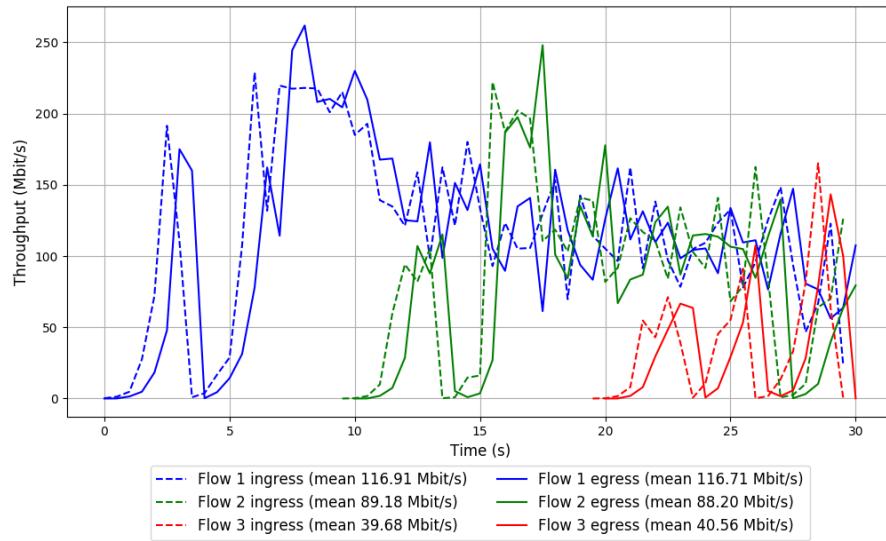


Run 1: Statistics of Verus

```
Start at: 2019-06-27 05:33:13
End at: 2019-06-27 05:33:43
Local clock offset: -0.091 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-06-27 10:58:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 188.26 Mbit/s
95th percentile per-packet one-way delay: 174.806 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 116.71 Mbit/s
95th percentile per-packet one-way delay: 177.673 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 88.20 Mbit/s
95th percentile per-packet one-way delay: 174.016 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 117.710 ms
Loss rate: 0.06%
```

Run 1: Report of Verus — Data Link

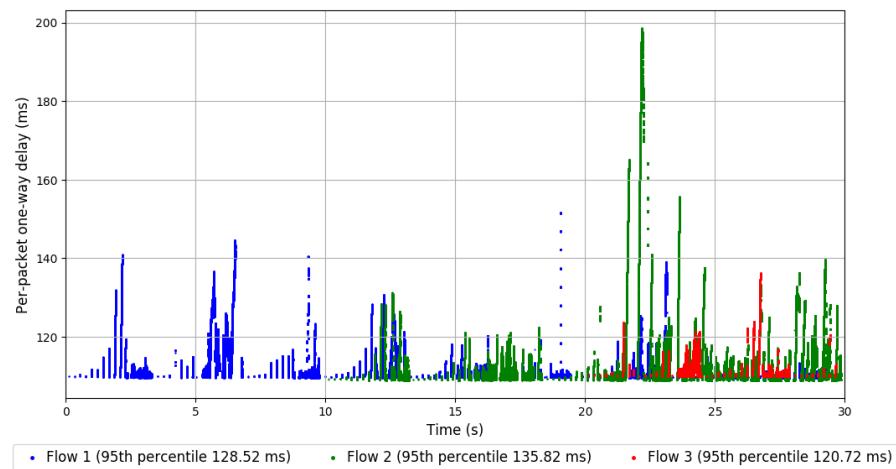
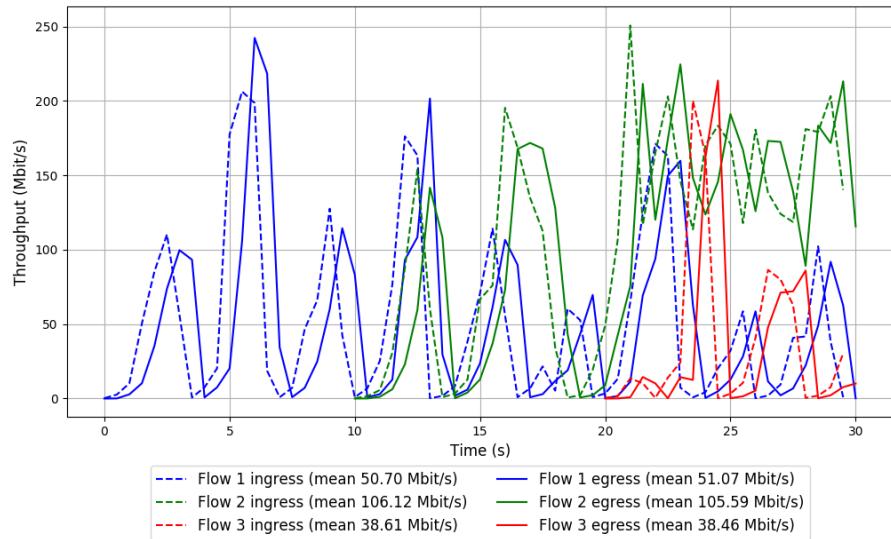


Run 2: Statistics of Verus

```
Start at: 2019-06-27 06:11:04
End at: 2019-06-27 06:11:34
Local clock offset: -0.163 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-06-27 10:58:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.17 Mbit/s
95th percentile per-packet one-way delay: 130.723 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 51.07 Mbit/s
95th percentile per-packet one-way delay: 128.520 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 105.59 Mbit/s
95th percentile per-packet one-way delay: 135.819 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 120.724 ms
Loss rate: 2.69%
```

Run 2: Report of Verus — Data Link

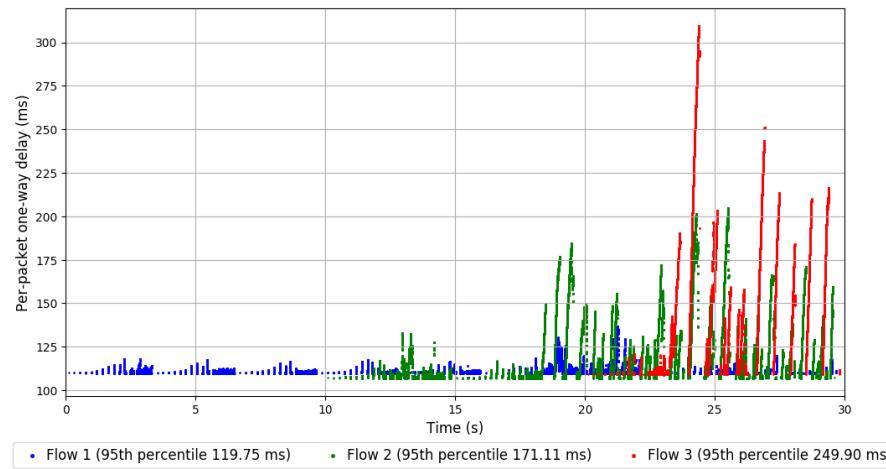
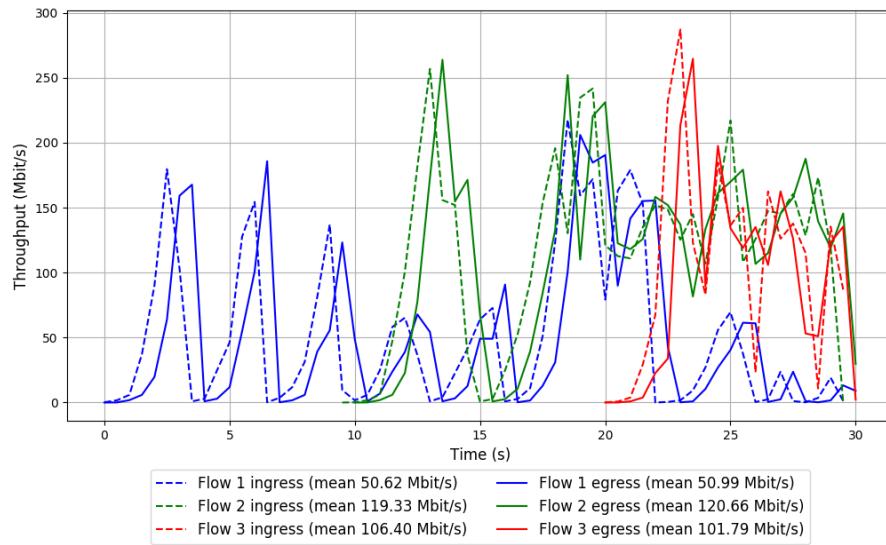


Run 3: Statistics of Verus

```
Start at: 2019-06-27 06:48:59
End at: 2019-06-27 06:49:29
Local clock offset: 0.053 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-06-27 10:58:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 163.23 Mbit/s
95th percentile per-packet one-way delay: 190.232 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 50.99 Mbit/s
95th percentile per-packet one-way delay: 119.746 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 120.66 Mbit/s
95th percentile per-packet one-way delay: 171.111 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 101.79 Mbit/s
95th percentile per-packet one-way delay: 249.904 ms
Loss rate: 5.78%
```

Run 3: Report of Verus — Data Link

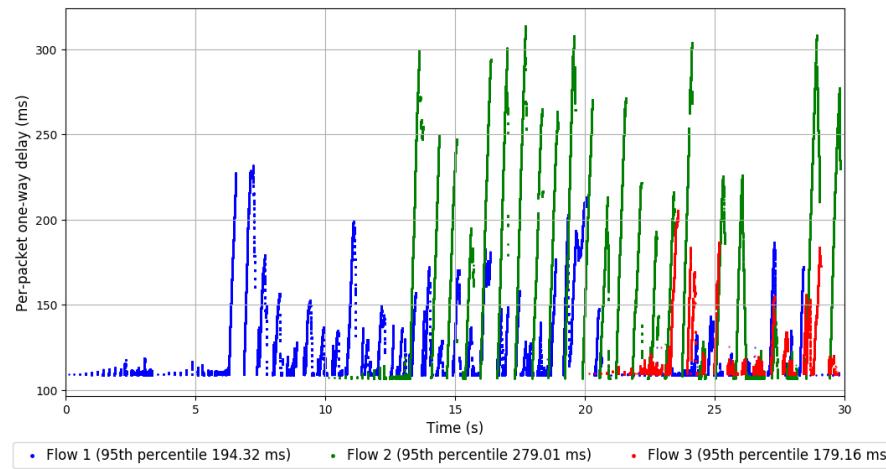
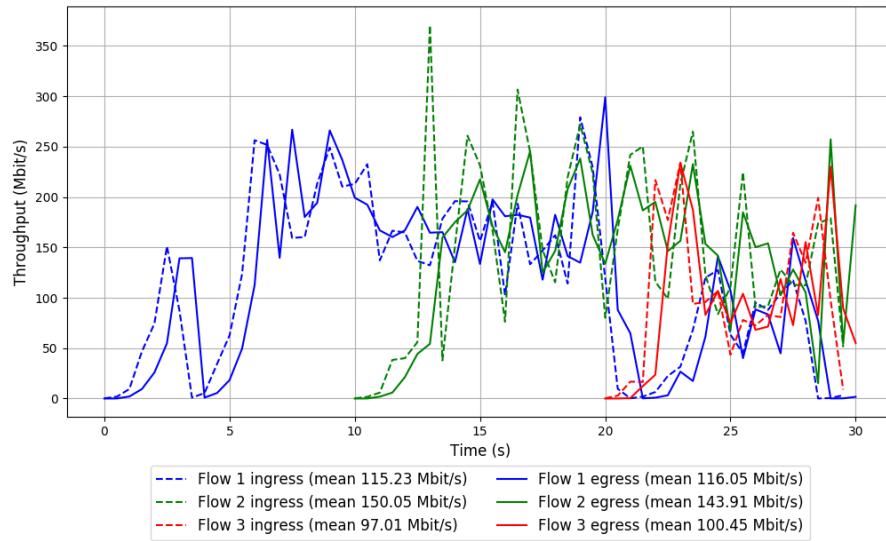


Run 4: Statistics of Verus

```
Start at: 2019-06-27 07:26:46
End at: 2019-06-27 07:27:16
Local clock offset: 0.124 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-06-27 10:59:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.62 Mbit/s
95th percentile per-packet one-way delay: 258.200 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 116.05 Mbit/s
95th percentile per-packet one-way delay: 194.324 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 143.91 Mbit/s
95th percentile per-packet one-way delay: 279.010 ms
Loss rate: 3.49%
-- Flow 3:
Average throughput: 100.45 Mbit/s
95th percentile per-packet one-way delay: 179.157 ms
Loss rate: 0.02%
```

Run 4: Report of Verus — Data Link

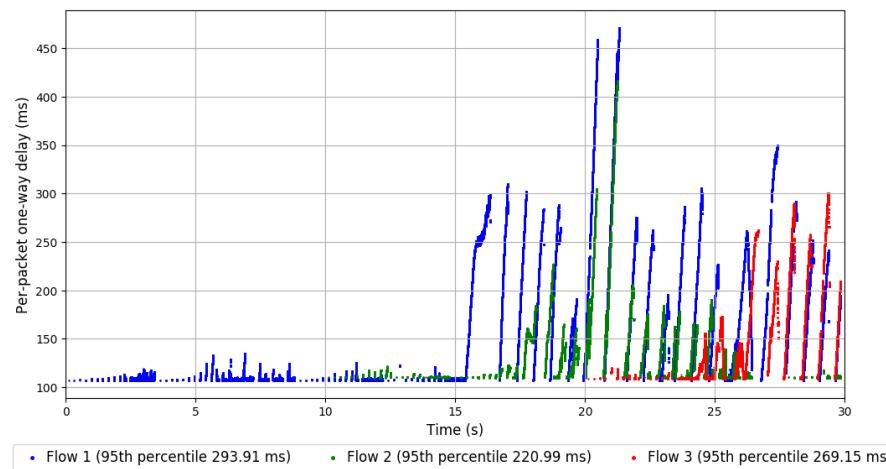
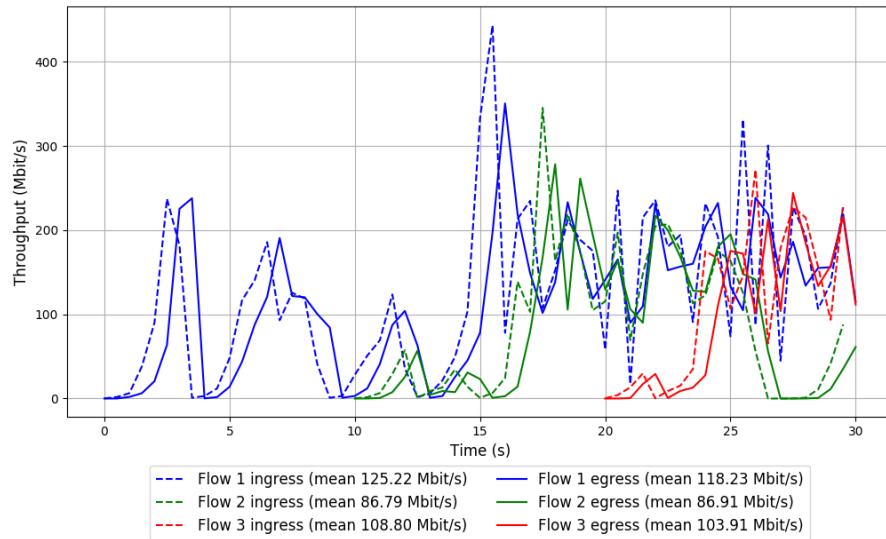


Run 5: Statistics of Verus

```
Start at: 2019-06-27 08:05:10
End at: 2019-06-27 08:05:40
Local clock offset: -0.115 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-06-27 10:59:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.83 Mbit/s
95th percentile per-packet one-way delay: 283.857 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 118.23 Mbit/s
95th percentile per-packet one-way delay: 293.912 ms
Loss rate: 5.77%
-- Flow 2:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 220.991 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 103.91 Mbit/s
95th percentile per-packet one-way delay: 269.155 ms
Loss rate: 5.58%
```

Run 5: Report of Verus — Data Link

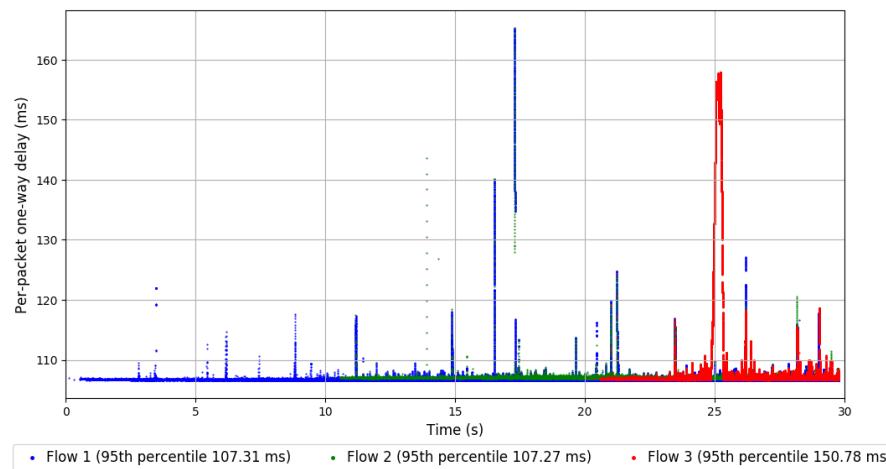
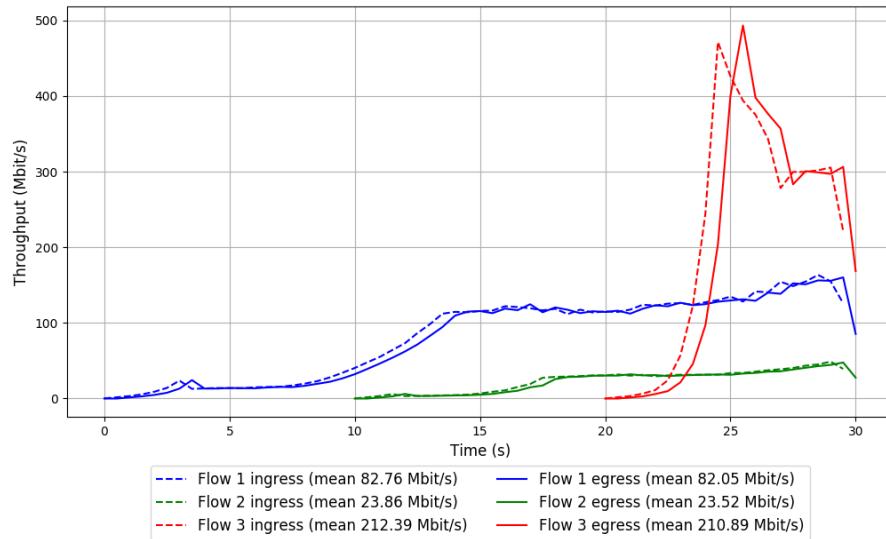


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-06-27 05:47:39
End at: 2019-06-27 05:48:09
Local clock offset: -0.097 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-06-27 10:59:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.19 Mbit/s
95th percentile per-packet one-way delay: 113.501 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 107.311 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 23.52 Mbit/s
95th percentile per-packet one-way delay: 107.267 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 210.89 Mbit/s
95th percentile per-packet one-way delay: 150.777 ms
Loss rate: 2.87%
```

Run 1: Report of PCC-Vivace — Data Link

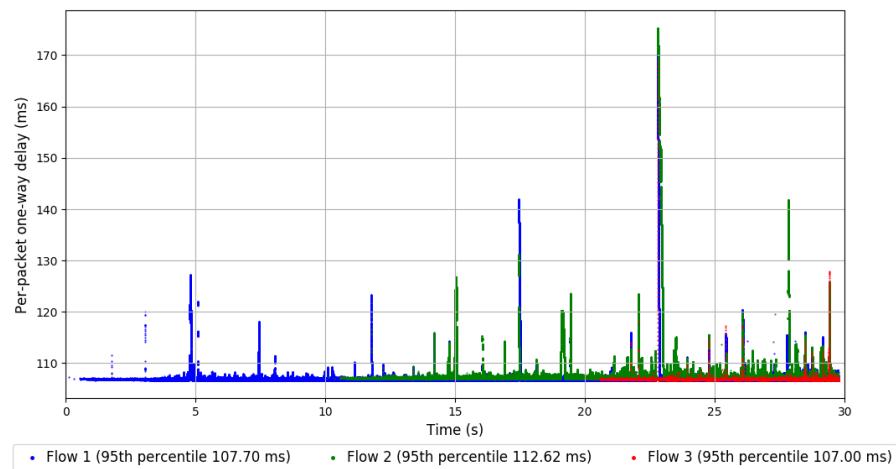
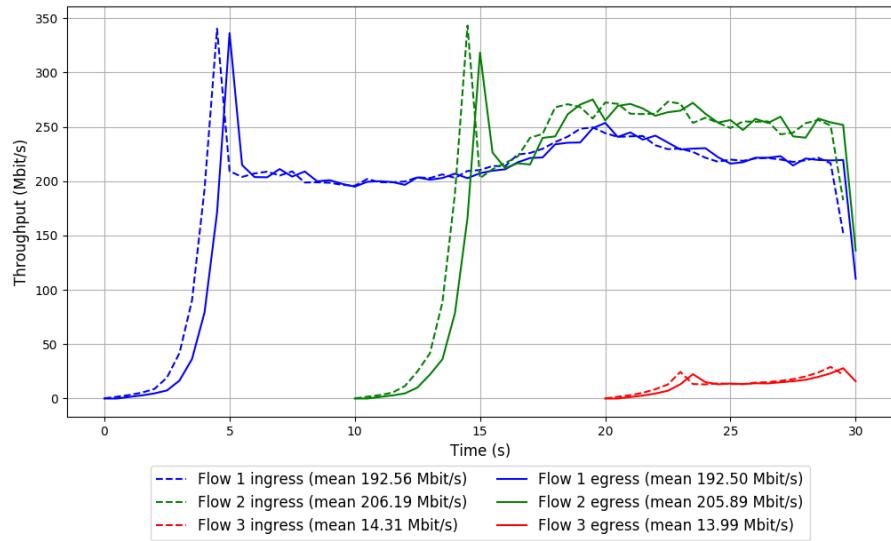


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-06-27 06:25:49
End at: 2019-06-27 06:26:19
Local clock offset: -0.1 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-06-27 10:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.45 Mbit/s
95th percentile per-packet one-way delay: 109.879 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 192.50 Mbit/s
95th percentile per-packet one-way delay: 107.698 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 205.89 Mbit/s
95th percentile per-packet one-way delay: 112.619 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 106.997 ms
Loss rate: 4.46%
```

Run 2: Report of PCC-Vivace — Data Link

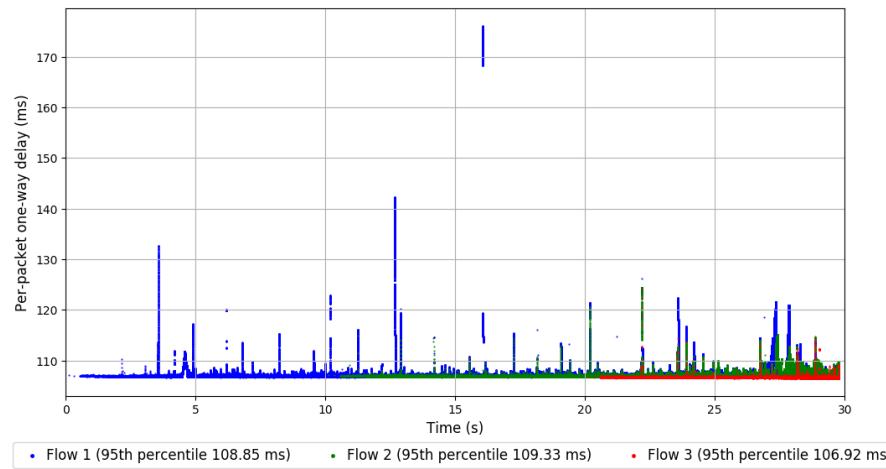
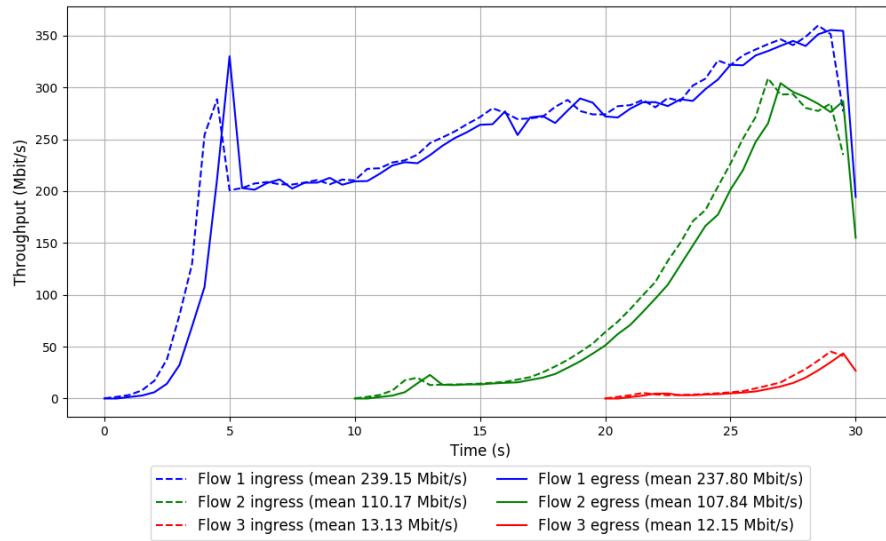


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-06-27 07:03:41
End at: 2019-06-27 07:04:11
Local clock offset: -0.105 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2019-06-27 10:59:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.18 Mbit/s
95th percentile per-packet one-way delay: 109.037 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 237.80 Mbit/s
95th percentile per-packet one-way delay: 108.853 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 107.84 Mbit/s
95th percentile per-packet one-way delay: 109.330 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 106.916 ms
Loss rate: 9.48%
```

Run 3: Report of PCC-Vivace — Data Link

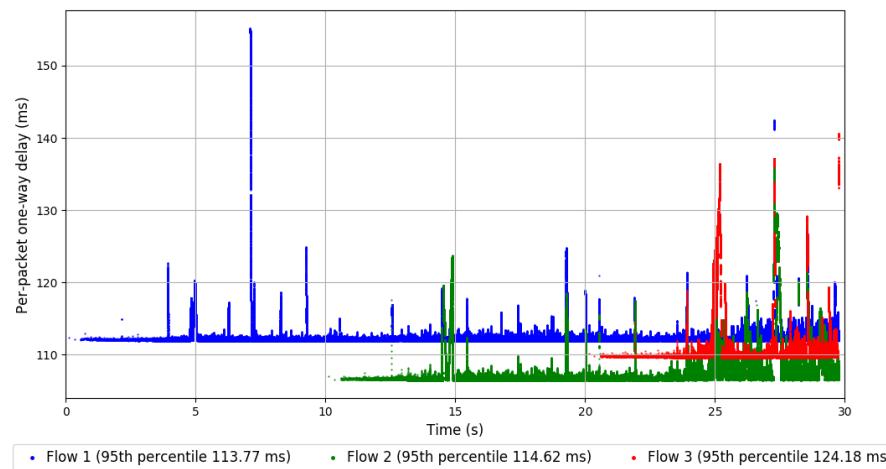
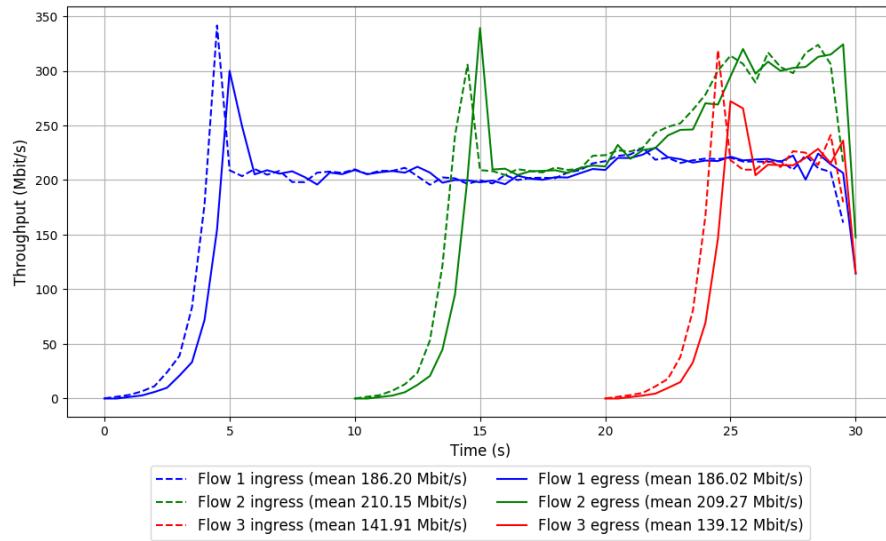


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-06-27 07:41:46
End at: 2019-06-27 07:42:16
Local clock offset: -0.178 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-06-27 11:00:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.89 Mbit/s
95th percentile per-packet one-way delay: 114.677 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 186.02 Mbit/s
95th percentile per-packet one-way delay: 113.767 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 209.27 Mbit/s
95th percentile per-packet one-way delay: 114.620 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 139.12 Mbit/s
95th percentile per-packet one-way delay: 124.183 ms
Loss rate: 4.17%
```

Run 4: Report of PCC-Vivace — Data Link

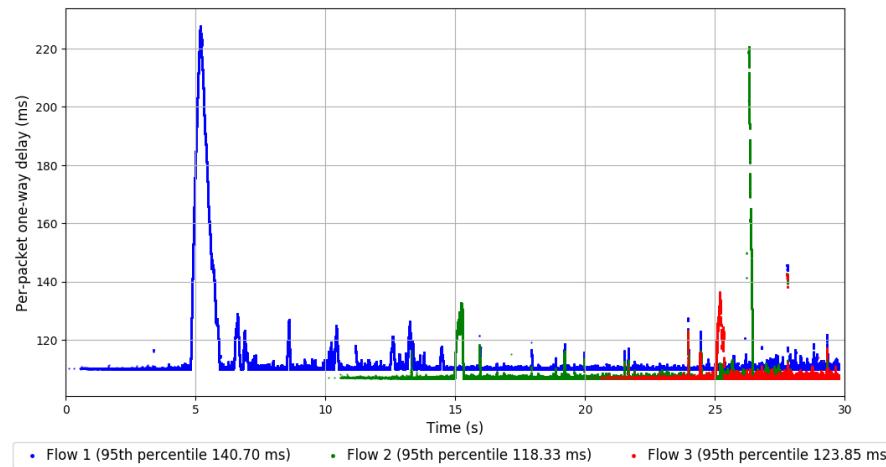
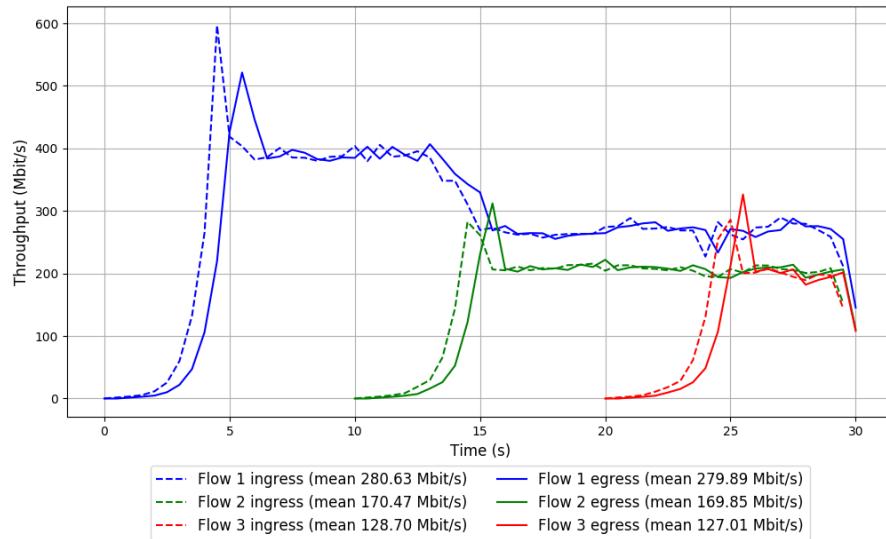


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-06-27 08:19:59
End at: 2019-06-27 08:20:29
Local clock offset: -0.123 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-06-27 11:00:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 433.67 Mbit/s
95th percentile per-packet one-way delay: 126.109 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 279.89 Mbit/s
95th percentile per-packet one-way delay: 140.696 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 169.85 Mbit/s
95th percentile per-packet one-way delay: 118.330 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 127.01 Mbit/s
95th percentile per-packet one-way delay: 123.852 ms
Loss rate: 3.52%
```

Run 5: Report of PCC-Vivace — Data Link

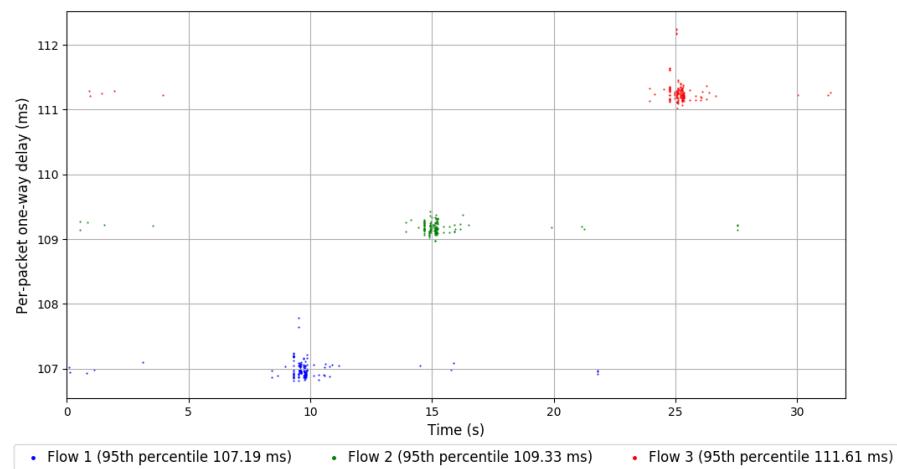
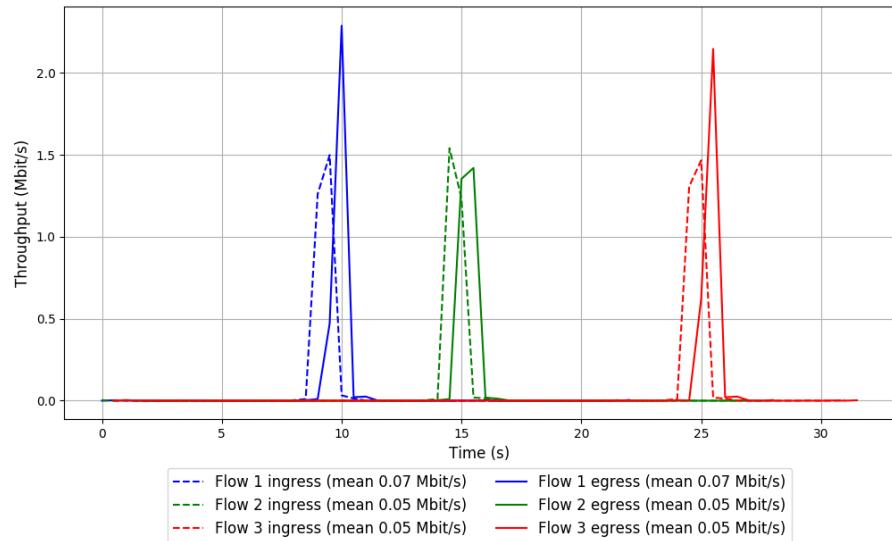


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2019-06-27 05:25:43
End at: 2019-06-27 05:26:13
Local clock offset: 0.131 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-06-27 11:00:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 111.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 107.191 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.325 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 111.609 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

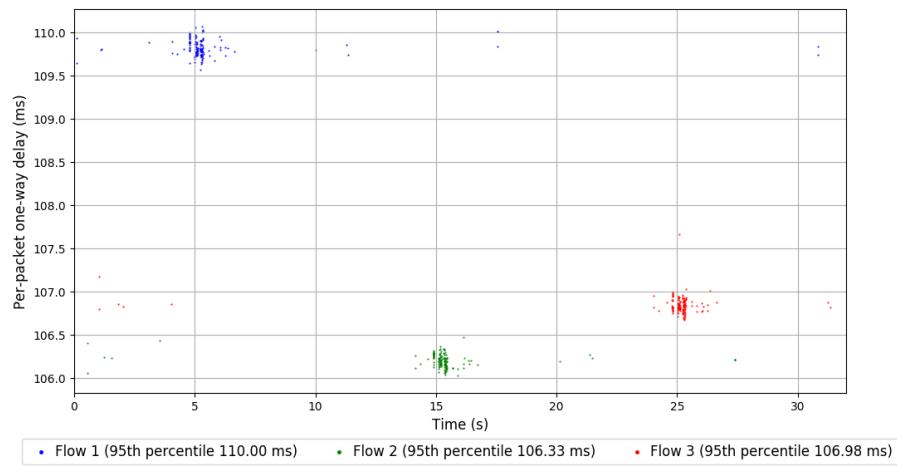
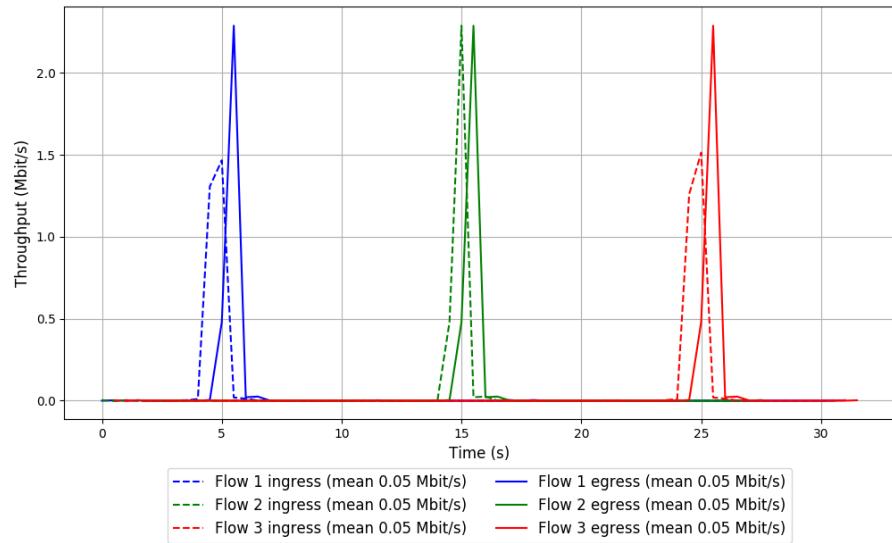


Run 2: Statistics of WebRTC media

```
Start at: 2019-06-27 06:03:13
End at: 2019-06-27 06:03:44
Local clock offset: -0.137 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-06-27 11:00:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 109.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.997 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.334 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.984 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

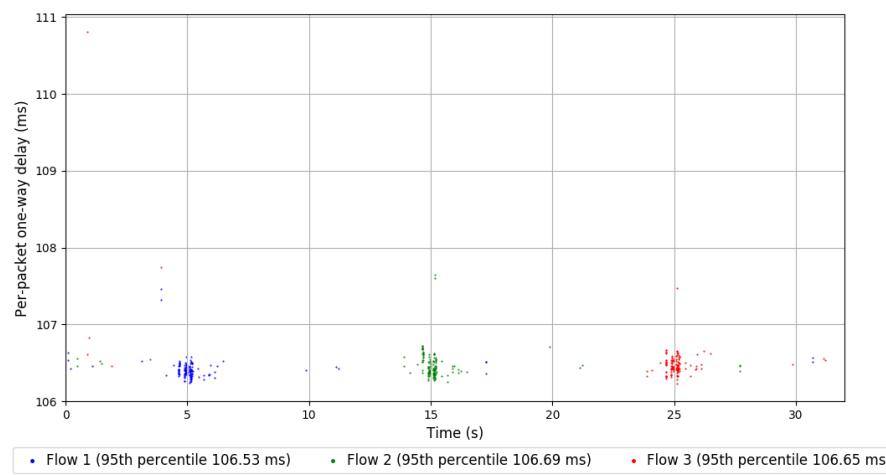
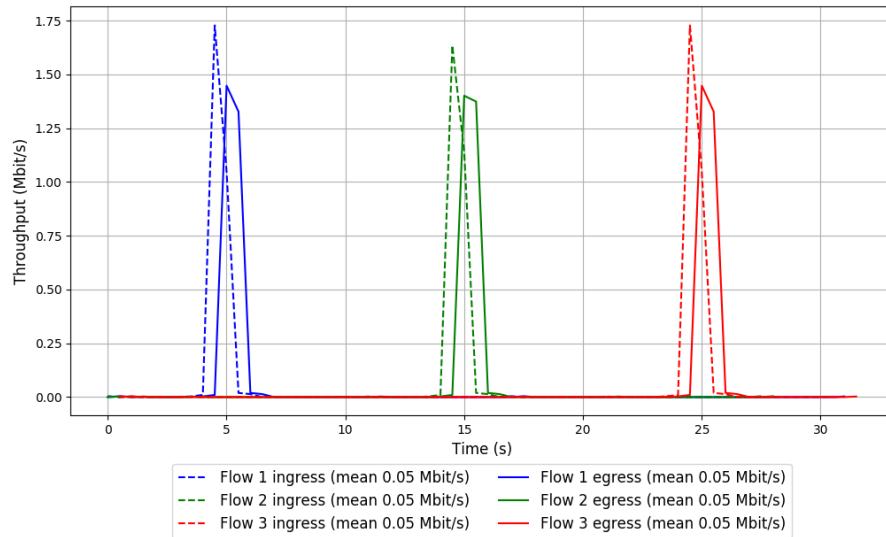


```
Run 3: Statistics of WebRTC media

Start at: 2019-06-27 06:41:33
End at: 2019-06-27 06:42:03
Local clock offset: -0.13 ms
Remote clock offset: 0.24 ms

# Below is generated by plot.py at 2019-06-27 11:00:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 106.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.528 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.691 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.654 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

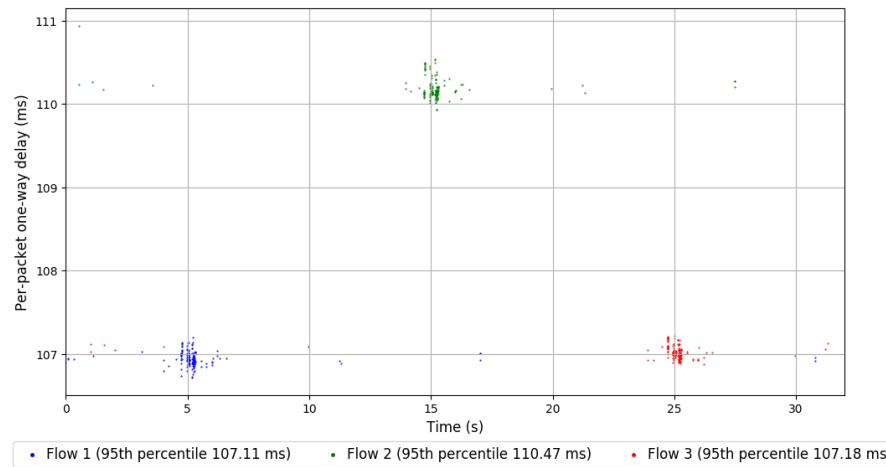
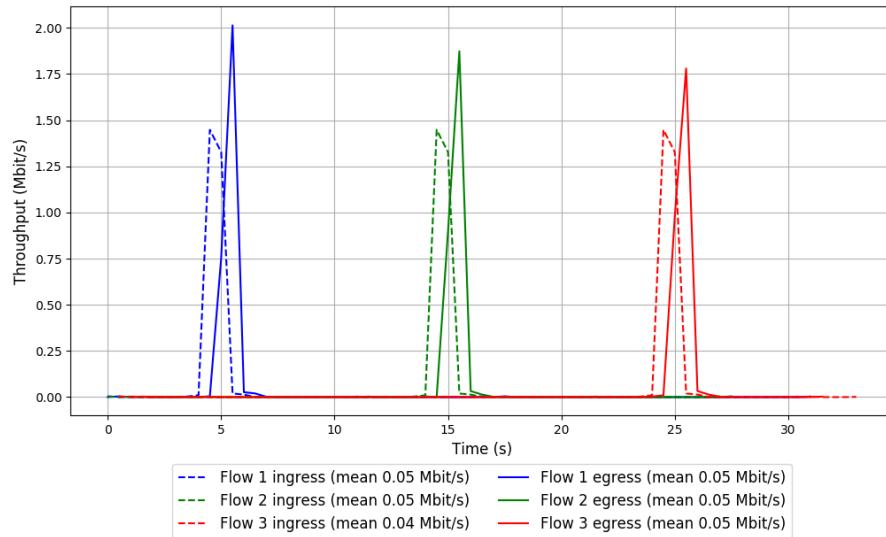


Run 4: Statistics of WebRTC media

```
Start at: 2019-06-27 07:18:57
End at: 2019-06-27 07:19:27
Local clock offset: 0.022 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-06-27 11:00:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 110.301 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 107.106 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 110.473 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 107.177 ms
Loss rate: 0.05%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-06-27 07:57:19
End at: 2019-06-27 07:57:49
Local clock offset: -0.001 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-06-27 11:00:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 110.300 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.514 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 115.426 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.797 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

