

Pantheon Report

Generated at 2019-01-03 02:57:05 (UTC).
Data path: AWS India 2 on `ens5` (*local*) → Saudi Arabia on `enp2s0` (*remote*).
Repeated the test of 19 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 `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

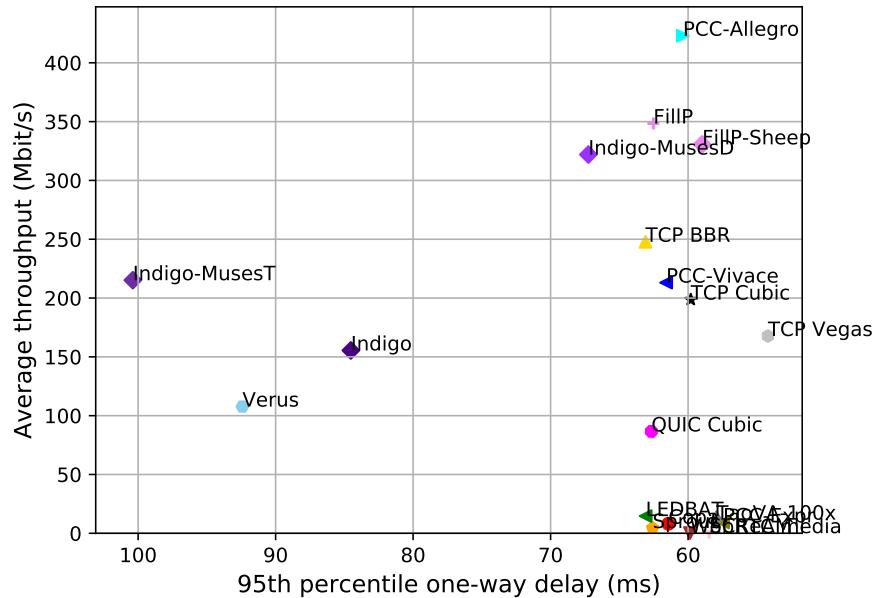
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

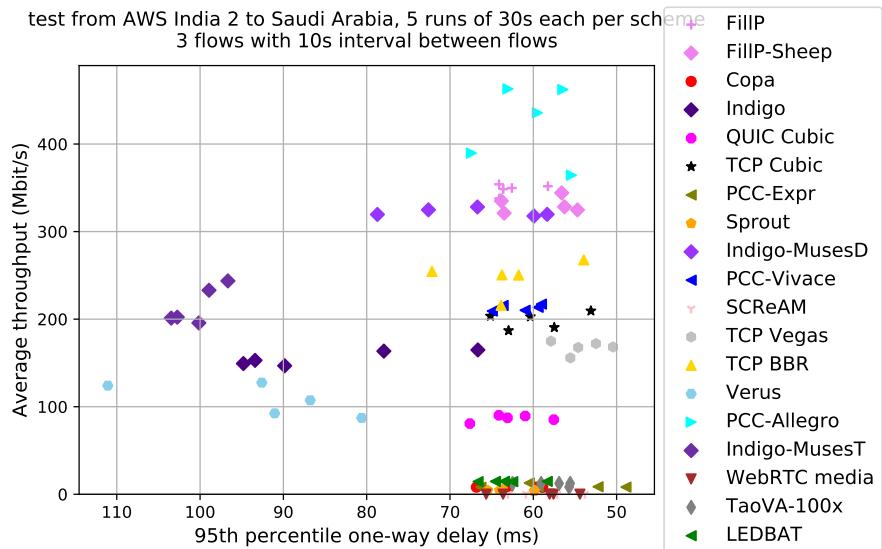
```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fce6963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



4

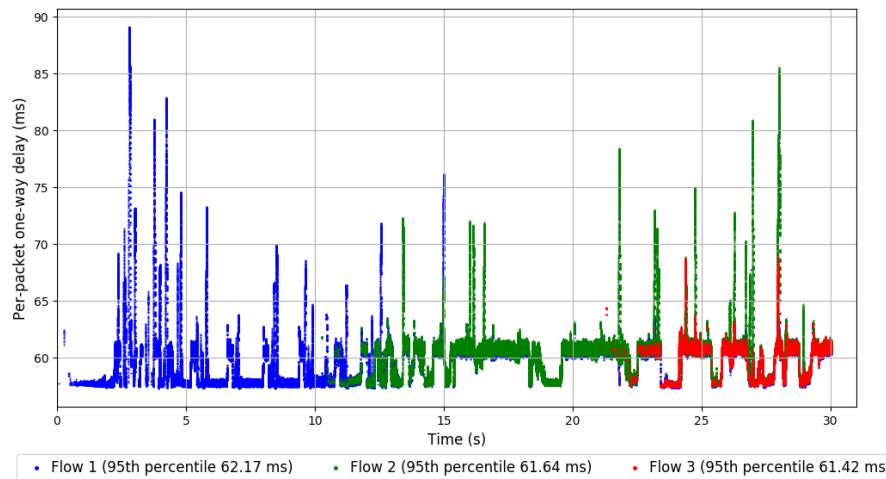
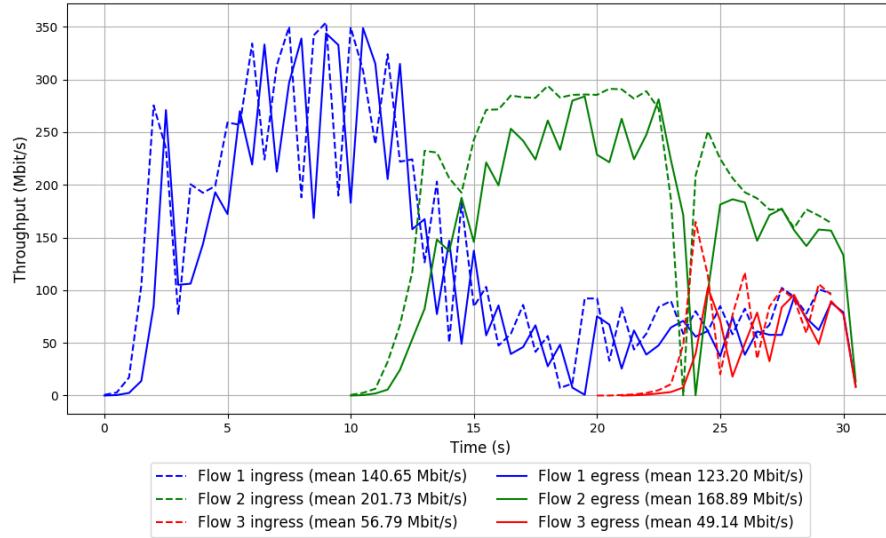
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	174.71	87.60	47.29	63.63	61.22	61.22	11.62	16.88	20.81
Copa	5	0.00	9.54	5.33	62.30	61.73	60.65	98.59	63.18	76.52
TCP Cubic	5	108.93	86.25	97.07	59.70	59.65	60.27	1.53	1.69	1.76
FillP	5	240.85	121.75	80.18	61.80	62.72	62.94	22.92	23.76	20.23
FillP-Sheep	5	231.11	97.26	105.39	58.68	58.74	58.40	14.09	12.24	14.84
Indigo	5	77.36	88.64	60.75	81.26	87.73	87.34	11.36	20.35	29.46
Indigo-MusesD	5	294.14	29.84	26.62	68.69	61.62	61.74	30.47	44.67	50.67
Indigo-MusesT	5	159.15	72.94	26.51	104.83	67.65	68.72	31.48	14.87	17.65
LEDBAT	5	9.40	6.30	3.08	63.54	61.86	61.38	0.00	0.00	0.00
PCC-Allegro	5	388.68	27.67	48.40	59.96	60.71	60.31	5.37	1.98	4.20
PCC-Expr	5	1.89	8.54	5.05	58.57	57.46	57.48	69.64	31.45	22.78
QUIC Cubic	5	49.74	39.38	32.98	61.16	62.06	65.78	0.00	0.02	0.01
SCReAM	5	0.22	0.22	0.22	57.99	57.42	57.96	0.00	0.00	0.00
Sprout	5	2.59	2.14	1.42	62.23	61.83	61.29	0.00	0.00	0.00
TaoVA-100x	5	5.64	4.97	7.92	59.92	55.90	54.34	47.67	42.01	70.56
TCP Vegas	5	93.17	62.87	98.27	53.93	52.80	55.49	1.49	1.87	2.09
Verus	5	68.09	38.79	47.39	94.09	86.73	80.46	48.52	43.79	47.59
PCC-Vivace	5	184.98	35.41	13.89	61.58	61.53	61.16	1.40	0.86	1.23
WebRTC media	5	0.05	0.05	0.05	60.06	60.14	59.60	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-03 00:05:54
End at: 2019-01-03 00:06:24
Local clock offset: 2.286 ms
Remote clock offset: -40.435 ms

# Below is generated by plot.py at 2019-01-03 02:37:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.39 Mbit/s
95th percentile per-packet one-way delay: 61.758 ms
Loss rate: 14.80%
-- Flow 1:
Average throughput: 123.20 Mbit/s
95th percentile per-packet one-way delay: 62.167 ms
Loss rate: 12.40%
-- Flow 2:
Average throughput: 168.89 Mbit/s
95th percentile per-packet one-way delay: 61.641 ms
Loss rate: 16.27%
-- Flow 3:
Average throughput: 49.14 Mbit/s
95th percentile per-packet one-way delay: 61.419 ms
Loss rate: 22.27%
```

Run 1: Report of TCP BBR — Data Link

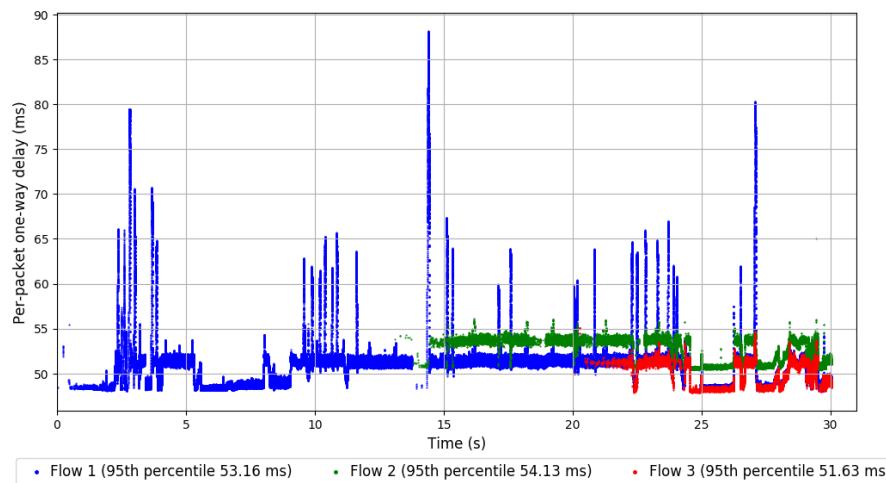
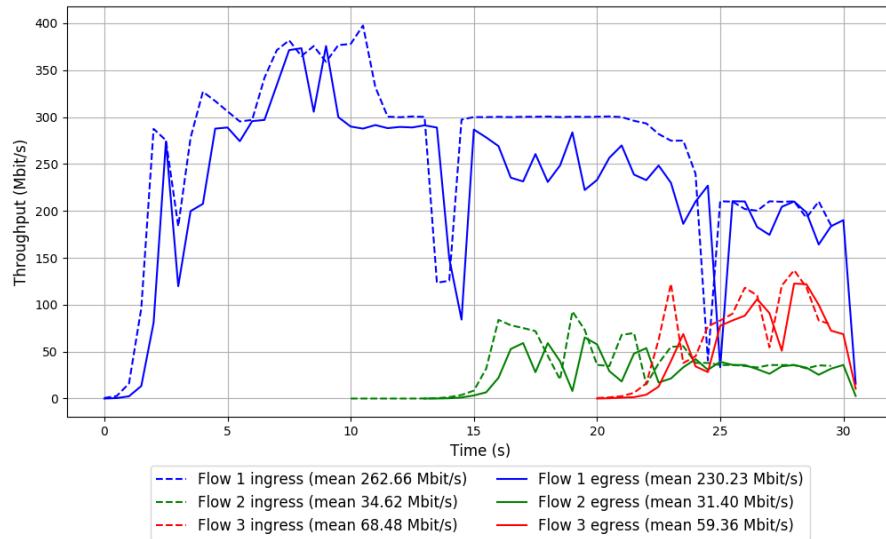


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-03 00:33:09
End at: 2019-01-03 00:38:39
Local clock offset: 3.823 ms
Remote clock offset: -47.837 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.69 Mbit/s
95th percentile per-packet one-way delay: 53.940 ms
Loss rate: 13.22%
-- Flow 1:
Average throughput: 230.23 Mbit/s
95th percentile per-packet one-way delay: 53.161 ms
Loss rate: 12.35%
-- Flow 2:
Average throughput: 31.40 Mbit/s
95th percentile per-packet one-way delay: 54.135 ms
Loss rate: 23.10%
-- Flow 3:
Average throughput: 59.36 Mbit/s
95th percentile per-packet one-way delay: 51.632 ms
Loss rate: 13.33%
```

Run 2: Report of TCP BBR — Data Link

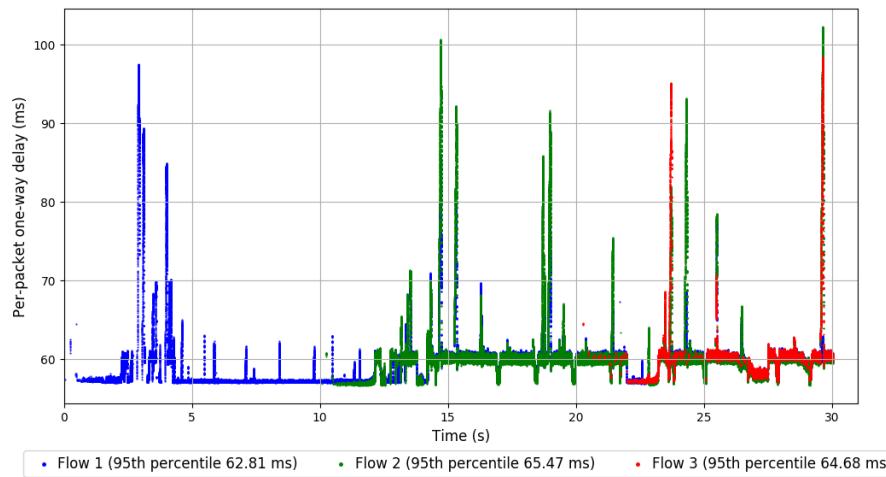
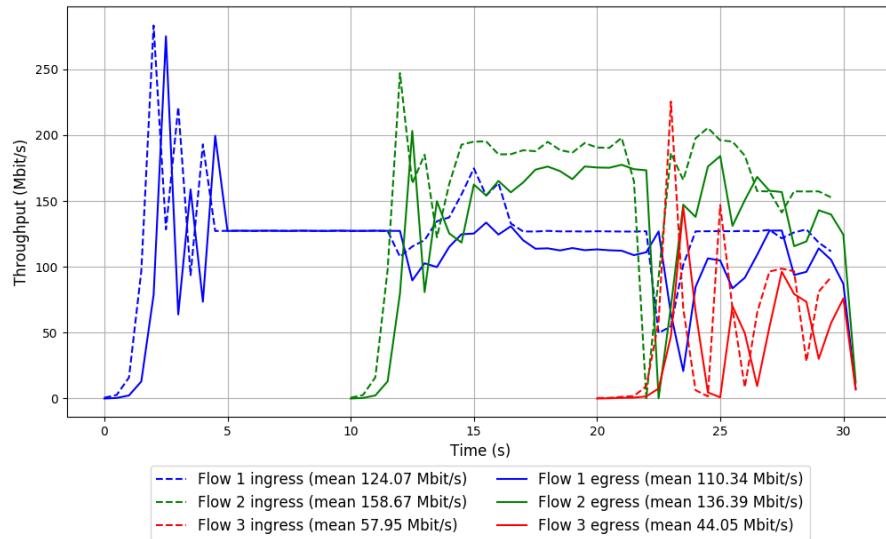


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-03 01:06:12
End at: 2019-01-03 01:06:42
Local clock offset: 1.047 ms
Remote clock offset: -41.748 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.86 Mbit/s
95th percentile per-packet one-way delay: 63.864 ms
Loss rate: 13.32%
-- Flow 1:
Average throughput: 110.34 Mbit/s
95th percentile per-packet one-way delay: 62.815 ms
Loss rate: 11.05%
-- Flow 2:
Average throughput: 136.39 Mbit/s
95th percentile per-packet one-way delay: 65.475 ms
Loss rate: 14.03%
-- Flow 3:
Average throughput: 44.05 Mbit/s
95th percentile per-packet one-way delay: 64.683 ms
Loss rate: 23.98%
```

Run 3: Report of TCP BBR — Data Link

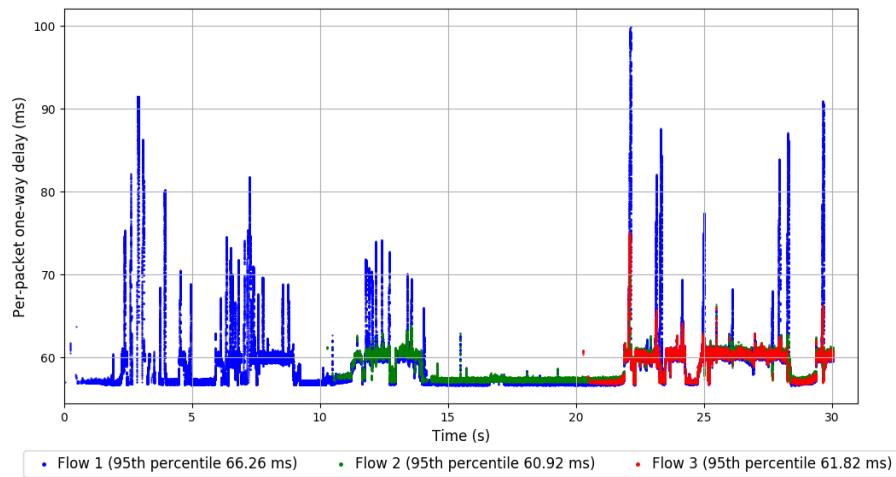
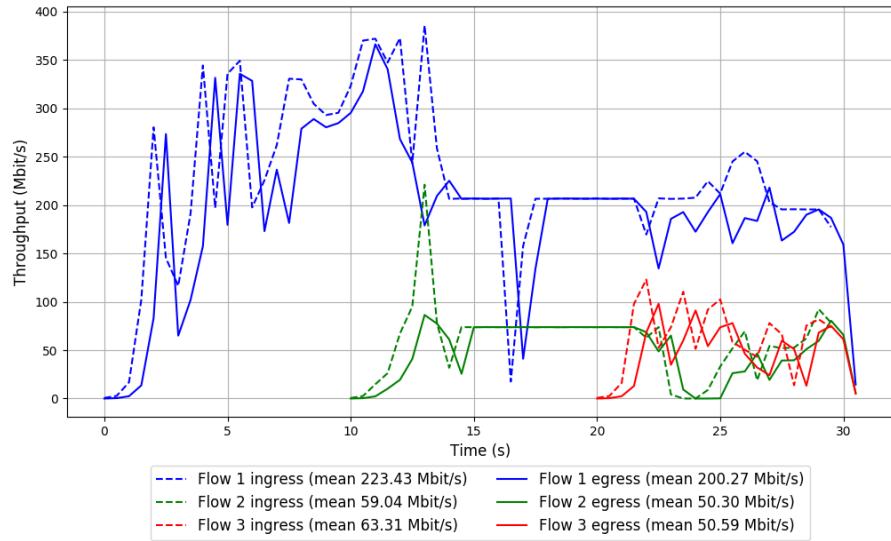


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-03 01:39:05
End at: 2019-01-03 01:39:35
Local clock offset: 2.851 ms
Remote clock offset: -40.217 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.60 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 11.69%
-- Flow 1:
Average throughput: 200.27 Mbit/s
95th percentile per-packet one-way delay: 66.263 ms
Loss rate: 10.35%
-- Flow 2:
Average throughput: 50.30 Mbit/s
95th percentile per-packet one-way delay: 60.922 ms
Loss rate: 14.79%
-- Flow 3:
Average throughput: 50.59 Mbit/s
95th percentile per-packet one-way delay: 61.818 ms
Loss rate: 20.07%
```

Run 4: Report of TCP BBR — Data Link

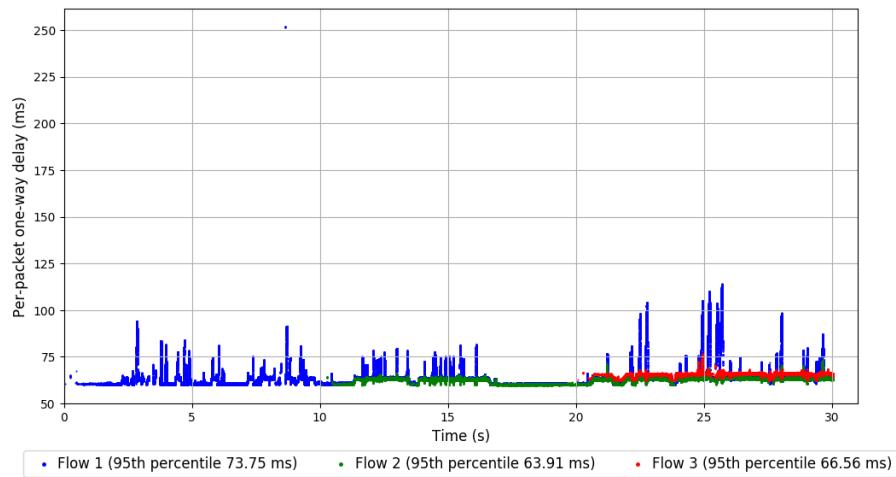
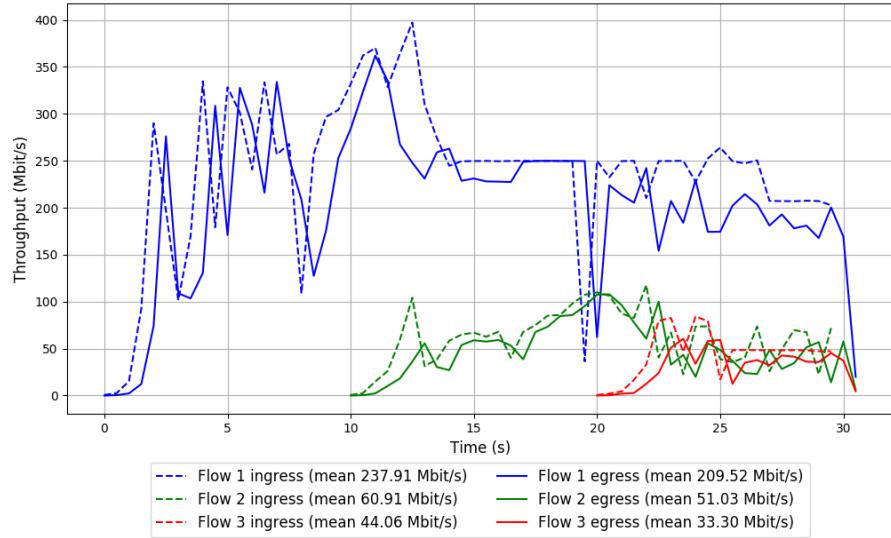


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-03 02:06:39
End at: 2019-01-03 02:07:09
Local clock offset: 0.014 ms
Remote clock offset: -40.602 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 254.58 Mbit/s
95th percentile per-packet one-way delay: 72.157 ms
Loss rate: 13.14%
-- Flow 1:
Average throughput: 209.52 Mbit/s
95th percentile per-packet one-way delay: 73.748 ms
Loss rate: 11.93%
-- Flow 2:
Average throughput: 51.03 Mbit/s
95th percentile per-packet one-way delay: 63.913 ms
Loss rate: 16.20%
-- Flow 3:
Average throughput: 33.30 Mbit/s
95th percentile per-packet one-way delay: 66.563 ms
Loss rate: 24.41%
```

Run 5: Report of TCP BBR — Data Link

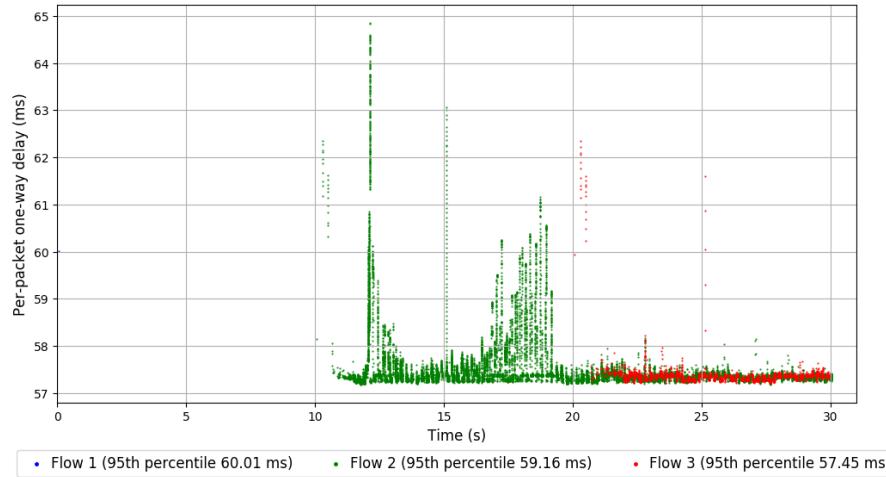
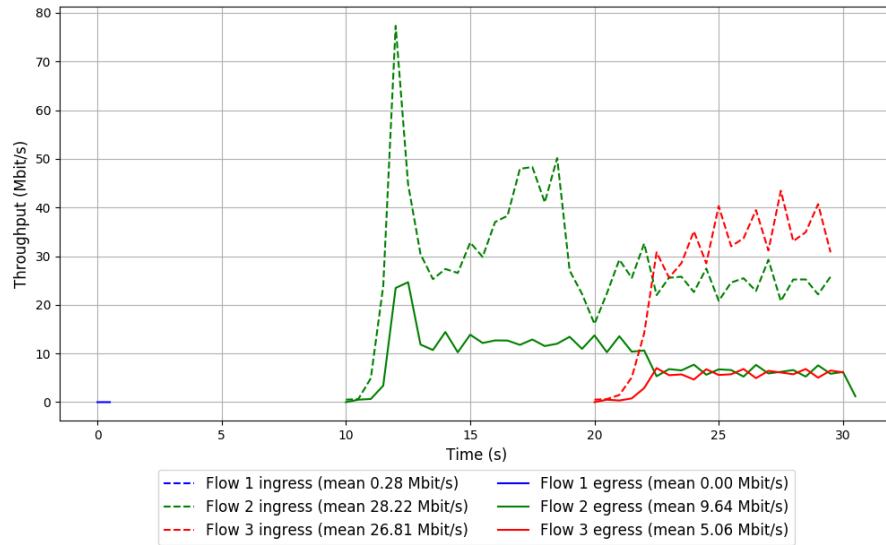


Run 1: Statistics of Copa

```
Start at: 2019-01-03 00:11:44
End at: 2019-01-03 00:12:14
Local clock offset: 1.864 ms
Remote clock offset: -41.159 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 58.919 ms
Loss rate: 70.73%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 60.010 ms
Loss rate: 98.33%
-- Flow 2:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 59.163 ms
Loss rate: 65.84%
-- Flow 3:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 57.446 ms
Loss rate: 81.15%
```

Run 1: Report of Copa — Data Link

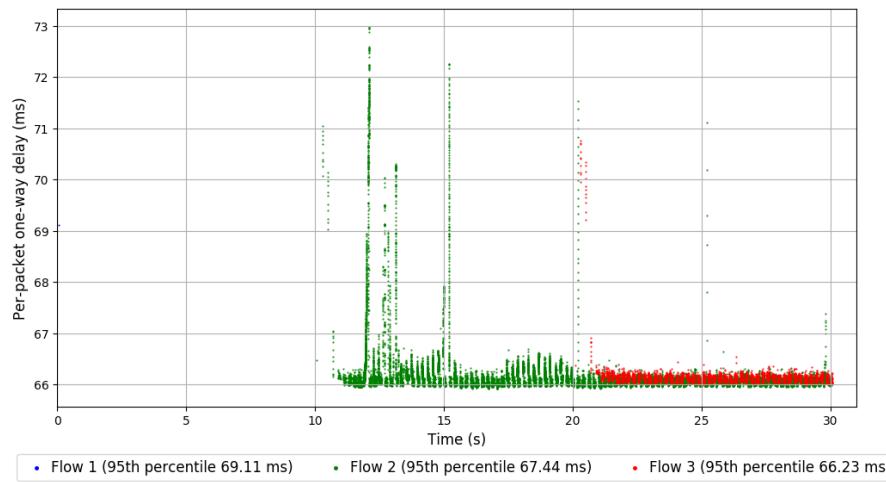
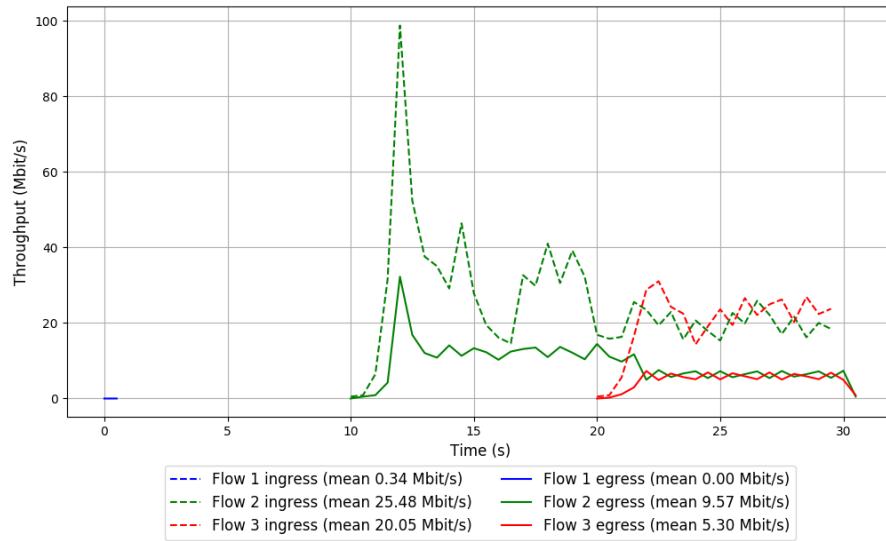


Run 2: Statistics of Copa

```
Start at: 2019-01-03 00:39:02
End at: 2019-01-03 00:39:32
Local clock offset: -0.009 ms
Remote clock offset: -33.599 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 66.827 ms
Loss rate: 65.59%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 69.108 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 67.445 ms
Loss rate: 62.45%
-- Flow 3:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 66.232 ms
Loss rate: 73.55%
```

Run 2: Report of Copa — Data Link

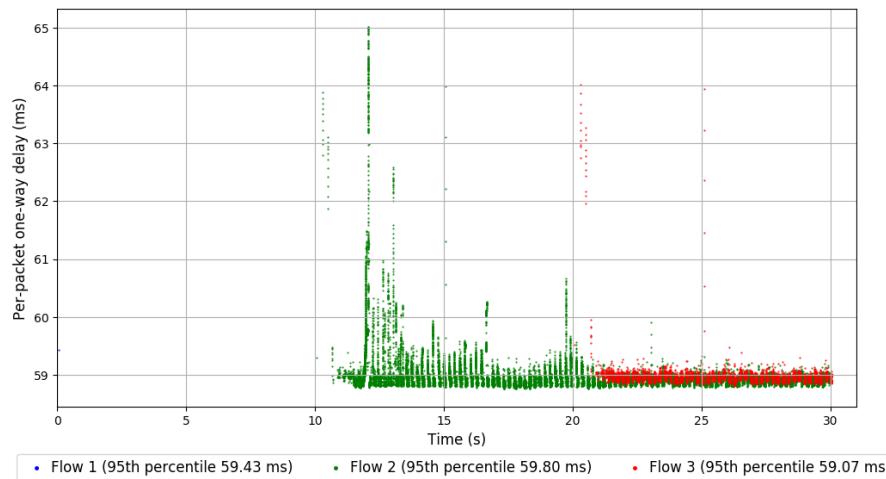
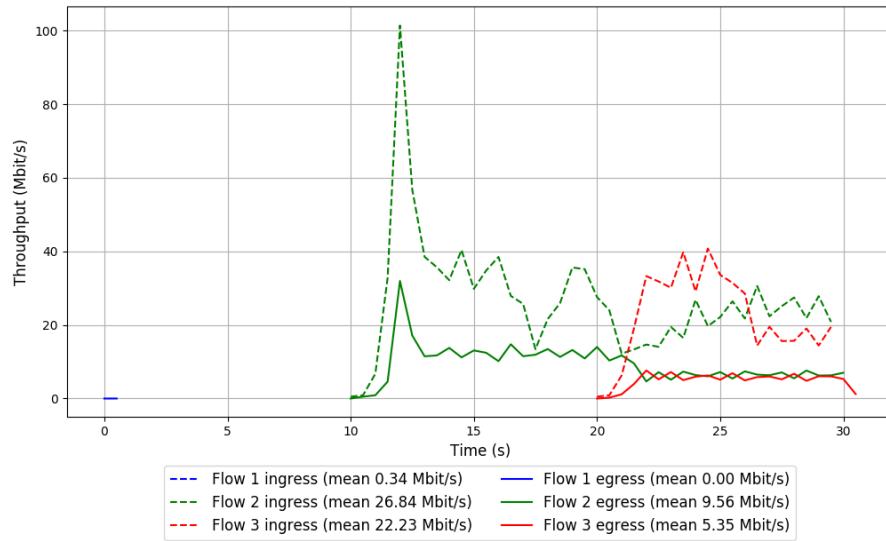


Run 3: Statistics of Copa

```
Start at: 2019-01-03 01:12:01
End at: 2019-01-03 01:12:31
Local clock offset: 1.138 ms
Remote clock offset: -39.991 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 59.613 ms
Loss rate: 67.76%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 59.430 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 59.798 ms
Loss rate: 64.37%
-- Flow 3:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 59.066 ms
Loss rate: 75.91%
```

Run 3: Report of Copa — Data Link

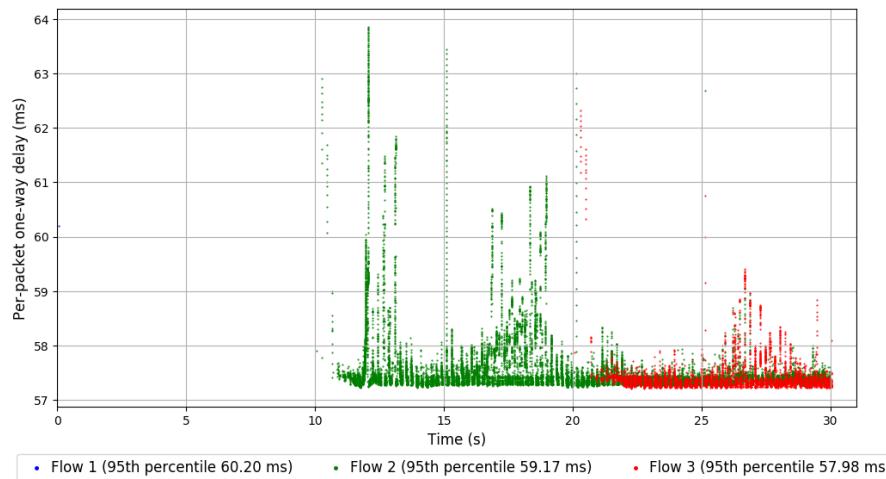
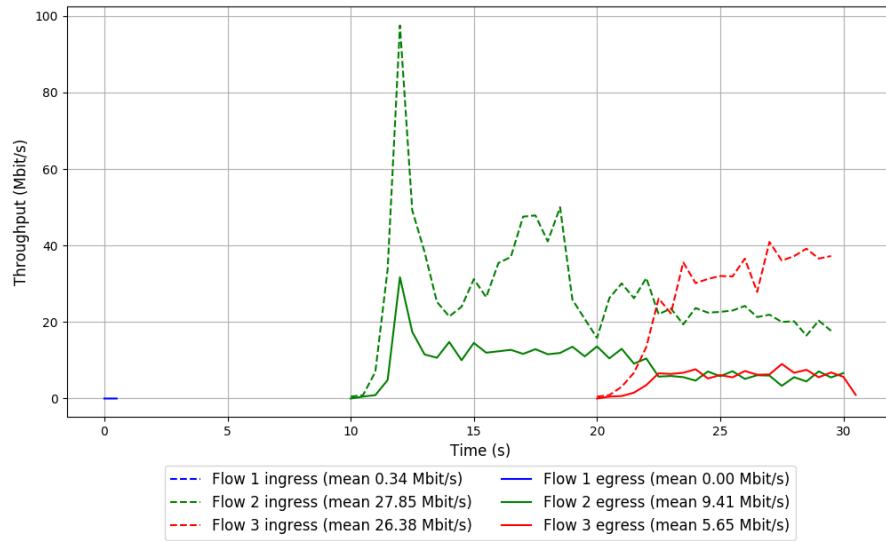


Run 4: Statistics of Copa

```
Start at: 2019-01-03 01:45:15
End at: 2019-01-03 01:45:45
Local clock offset: 2.11 ms
Remote clock offset: -40.497 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 58.876 ms
Loss rate: 70.19%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 60.196 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 59.171 ms
Loss rate: 66.21%
-- Flow 3:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 57.978 ms
Loss rate: 78.59%
```

Run 4: Report of Copa — Data Link

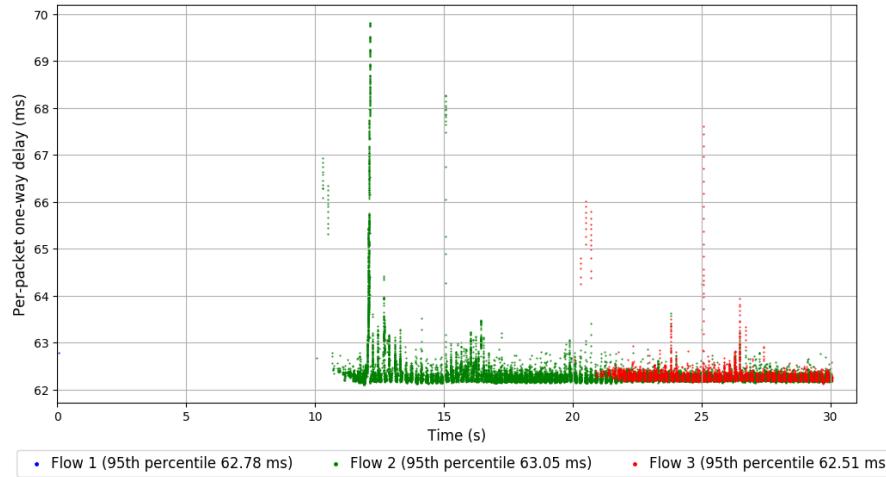
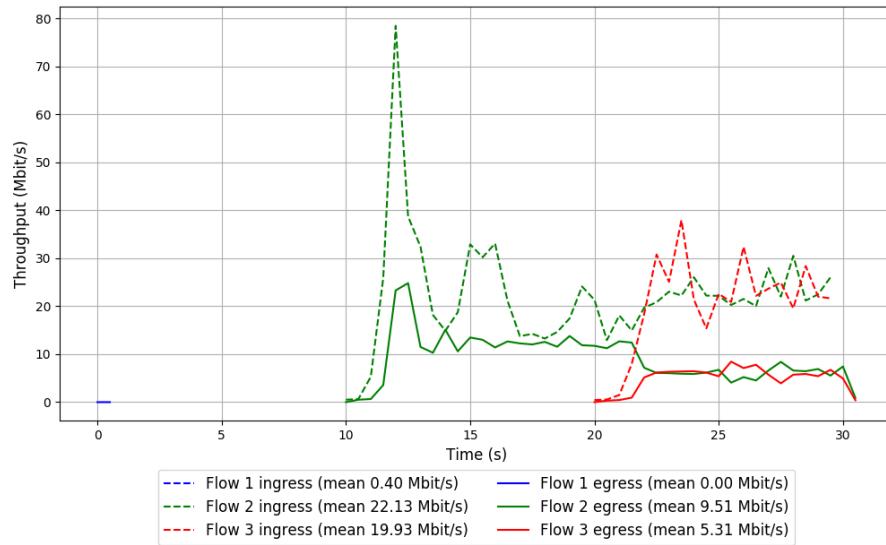


Run 5: Statistics of Copa

```
Start at: 2019-01-03 02:12:30
End at: 2019-01-03 02:13:00
Local clock offset: 3.35 ms
Remote clock offset: -35.006 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 62.927 ms
Loss rate: 62.12%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 62.781 ms
Loss rate: 98.80%
-- Flow 2:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 63.050 ms
Loss rate: 57.05%
-- Flow 3:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 62.506 ms
Loss rate: 73.38%
```

Run 5: Report of Copa — Data Link

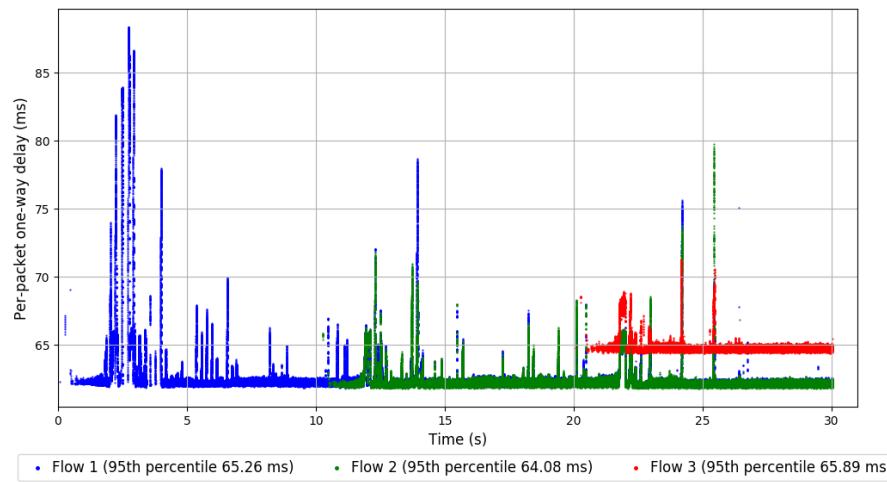
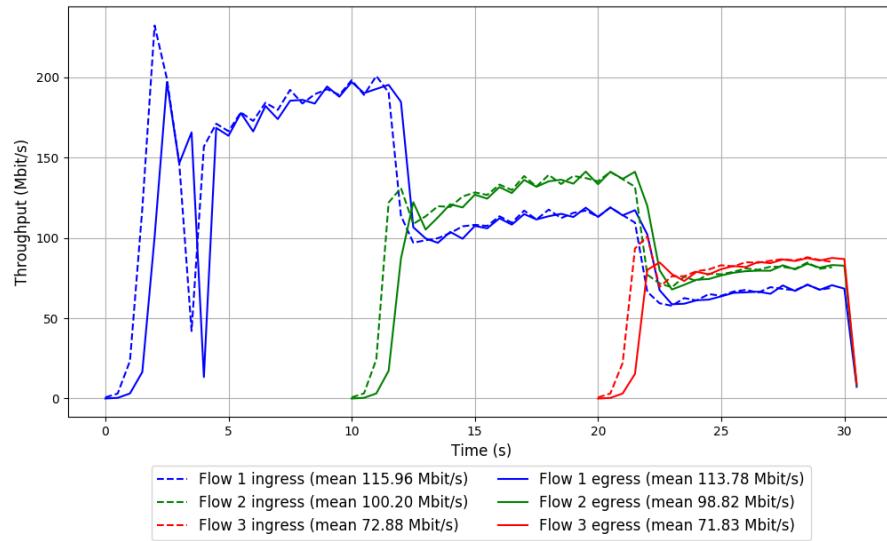


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-03 00:17:16
End at: 2019-01-03 00:17:46
Local clock offset: 3.08 ms
Remote clock offset: -35.17 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.55 Mbit/s
95th percentile per-packet one-way delay: 65.149 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 113.78 Mbit/s
95th percentile per-packet one-way delay: 65.261 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 98.82 Mbit/s
95th percentile per-packet one-way delay: 64.077 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 71.83 Mbit/s
95th percentile per-packet one-way delay: 65.892 ms
Loss rate: 1.43%
```

Run 1: Report of TCP Cubic — Data Link

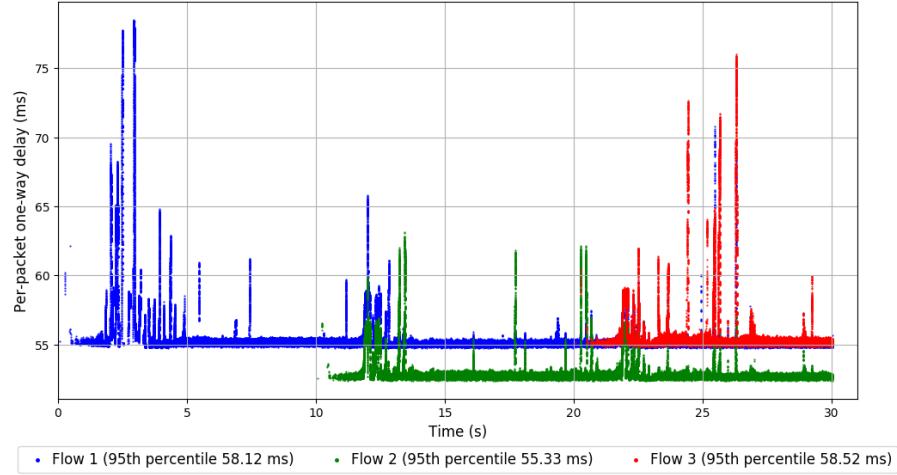
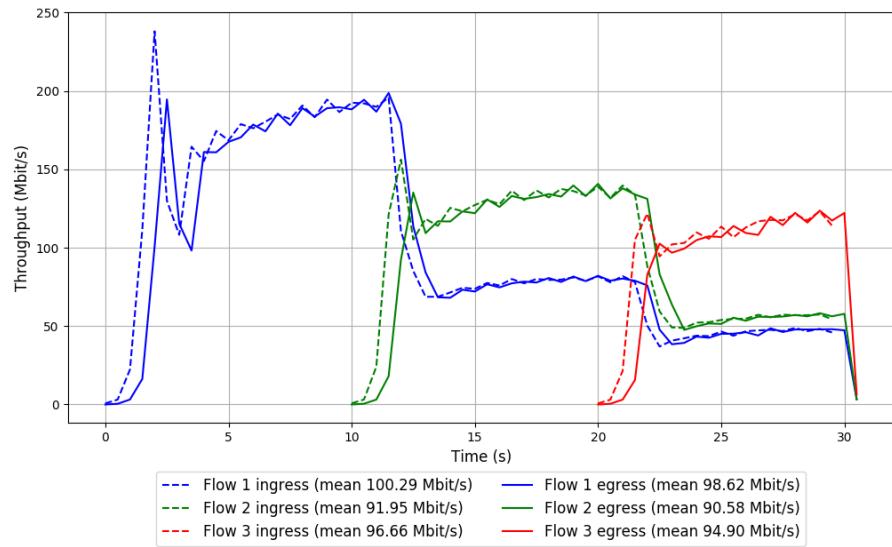


```
Run 2: Statistics of TCP Cubic
```

```
Start at: 2019-01-03 00:50:13
End at: 2019-01-03 00:50:43
Local clock offset: 0.2 ms
Remote clock offset: -46.853 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 190.54 Mbit/s
95th percentile per-packet one-way delay: 57.478 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 98.62 Mbit/s
95th percentile per-packet one-way delay: 58.125 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 90.58 Mbit/s
95th percentile per-packet one-way delay: 55.334 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 58.516 ms
Loss rate: 1.84%
```

Run 2: Report of TCP Cubic — Data Link

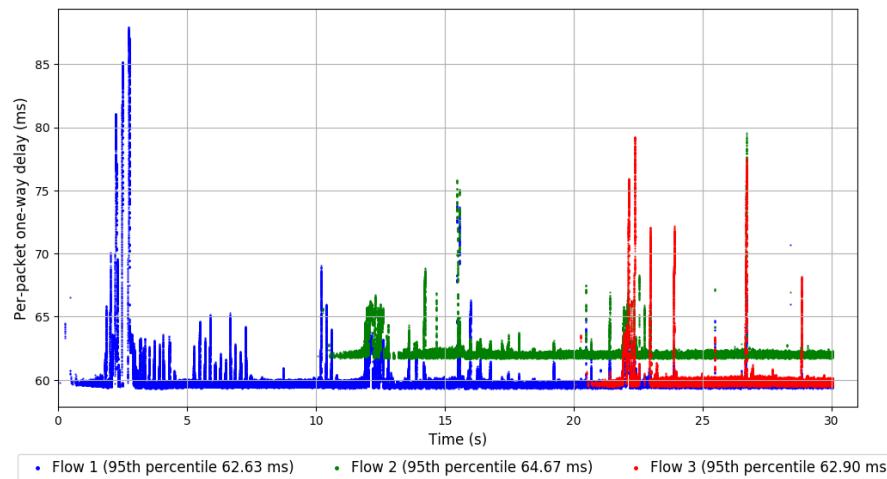
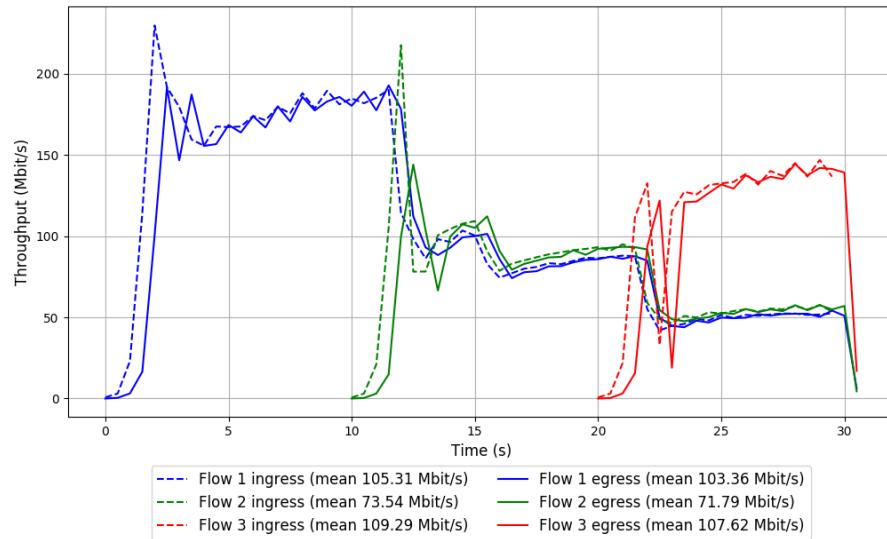


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-03 01:17:32
End at: 2019-01-03 01:18:02
Local clock offset: 0.141 ms
Remote clock offset: -40.388 ms

# Below is generated by plot.py at 2019-01-03 02:38:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 186.96 Mbit/s
95th percentile per-packet one-way delay: 62.970 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 103.36 Mbit/s
95th percentile per-packet one-way delay: 62.632 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 71.79 Mbit/s
95th percentile per-packet one-way delay: 64.666 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 107.62 Mbit/s
95th percentile per-packet one-way delay: 62.898 ms
Loss rate: 1.53%
```

Run 3: Report of TCP Cubic — Data Link

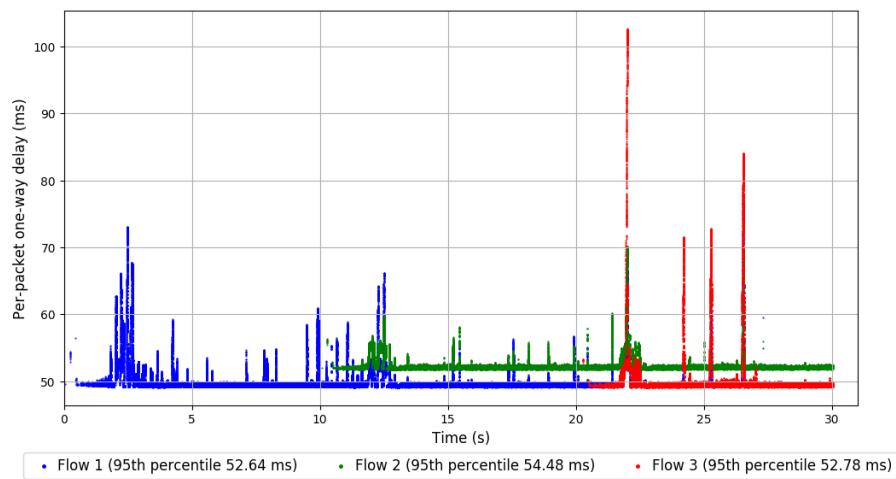
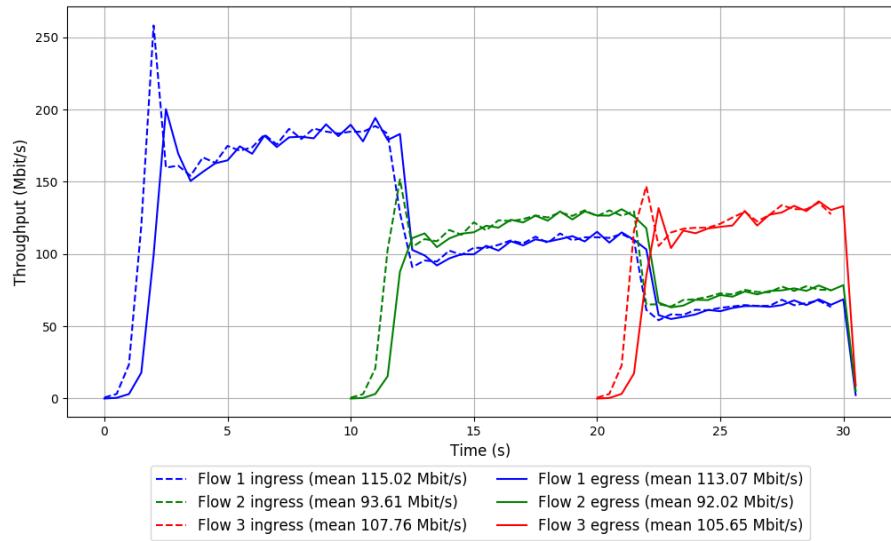


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-03 01:50:45
End at: 2019-01-03 01:51:15
Local clock offset: 1.953 ms
Remote clock offset: -48.692 ms

# Below is generated by plot.py at 2019-01-03 02:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.47 Mbit/s
95th percentile per-packet one-way delay: 53.084 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 113.07 Mbit/s
95th percentile per-packet one-way delay: 52.644 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 92.02 Mbit/s
95th percentile per-packet one-way delay: 54.476 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 105.65 Mbit/s
95th percentile per-packet one-way delay: 52.779 ms
Loss rate: 1.96%
```

Run 4: Report of TCP Cubic — Data Link

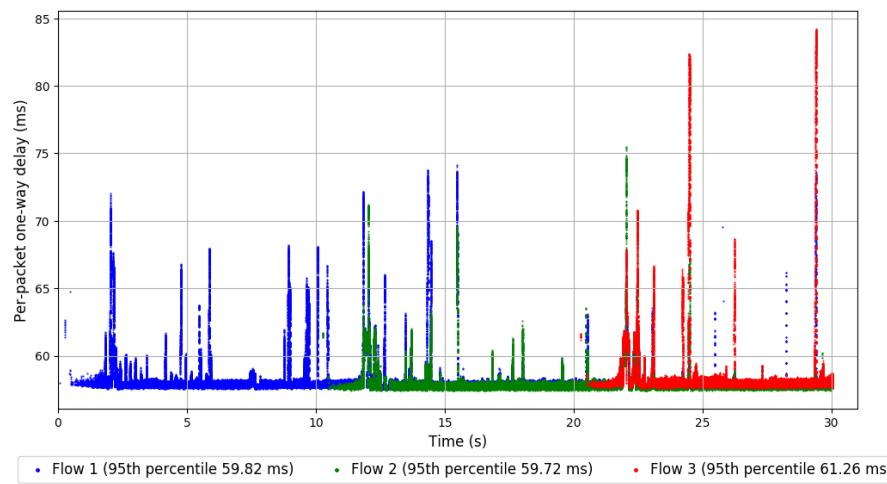
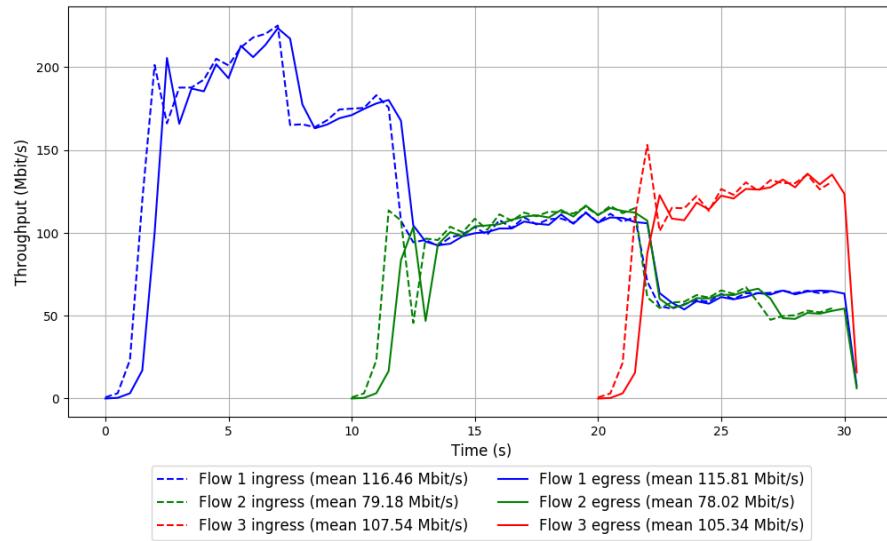


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-03 02:18:02
End at: 2019-01-03 02:18:32
Local clock offset: 3.964 ms
Remote clock offset: -39.032 ms

# Below is generated by plot.py at 2019-01-03 02:39:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 202.81 Mbit/s
95th percentile per-packet one-way delay: 60.348 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 115.81 Mbit/s
95th percentile per-packet one-way delay: 59.824 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 78.02 Mbit/s
95th percentile per-packet one-way delay: 59.720 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 105.34 Mbit/s
95th percentile per-packet one-way delay: 61.255 ms
Loss rate: 2.05%
```

Run 5: Report of TCP Cubic — Data Link

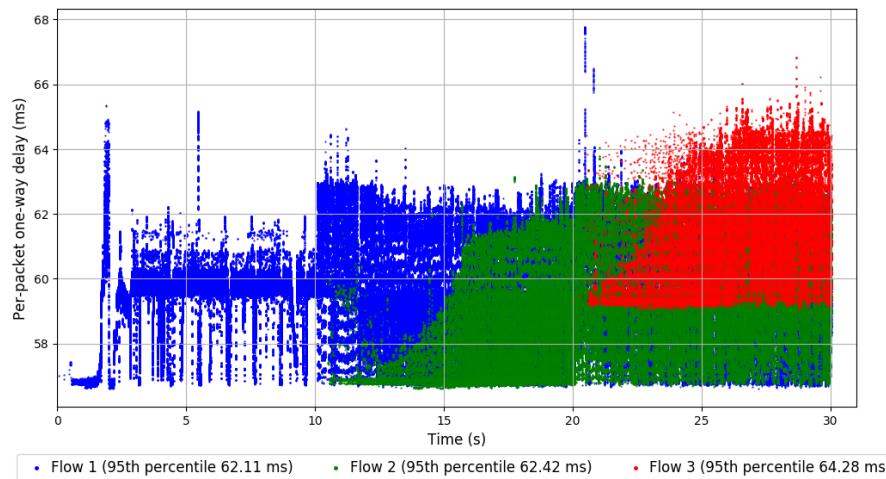
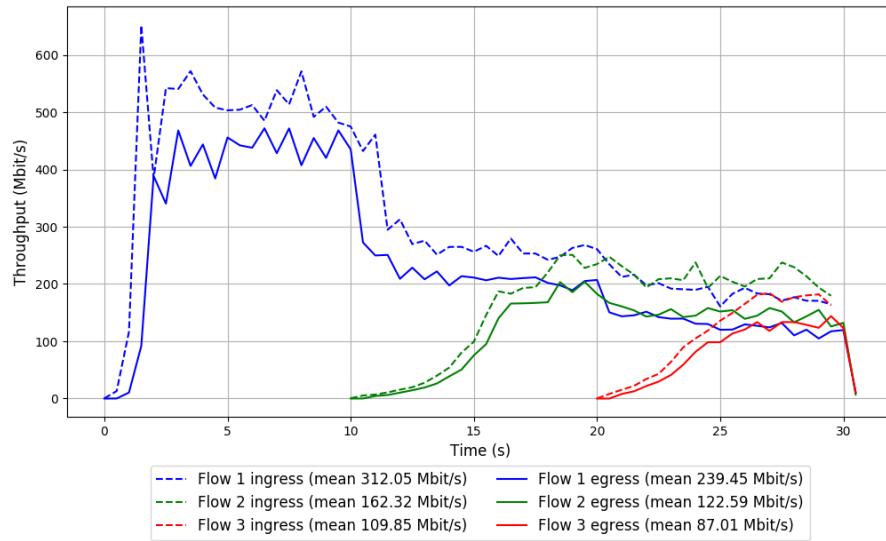


```
Run 1: Statistics of FillP

Start at: 2019-01-03 00:20:06
End at: 2019-01-03 00:20:36
Local clock offset: 3.558 ms
Remote clock offset: -39.788 ms

# Below is generated by plot.py at 2019-01-03 02:42:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 349.77 Mbit/s
95th percentile per-packet one-way delay: 62.571 ms
Loss rate: 23.35%
-- Flow 1:
Average throughput: 239.45 Mbit/s
95th percentile per-packet one-way delay: 62.112 ms
Loss rate: 23.26%
-- Flow 2:
Average throughput: 122.59 Mbit/s
95th percentile per-packet one-way delay: 62.416 ms
Loss rate: 24.47%
-- Flow 3:
Average throughput: 87.01 Mbit/s
95th percentile per-packet one-way delay: 64.278 ms
Loss rate: 20.76%
```

Run 1: Report of FillP — Data Link

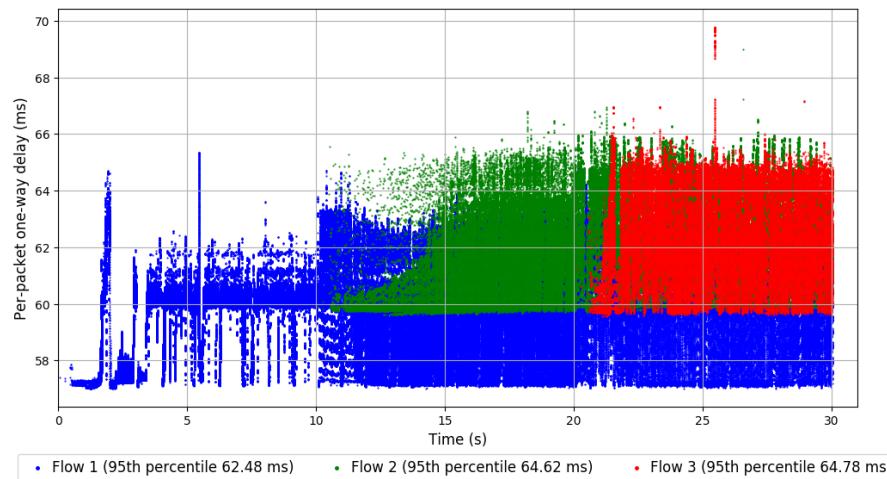
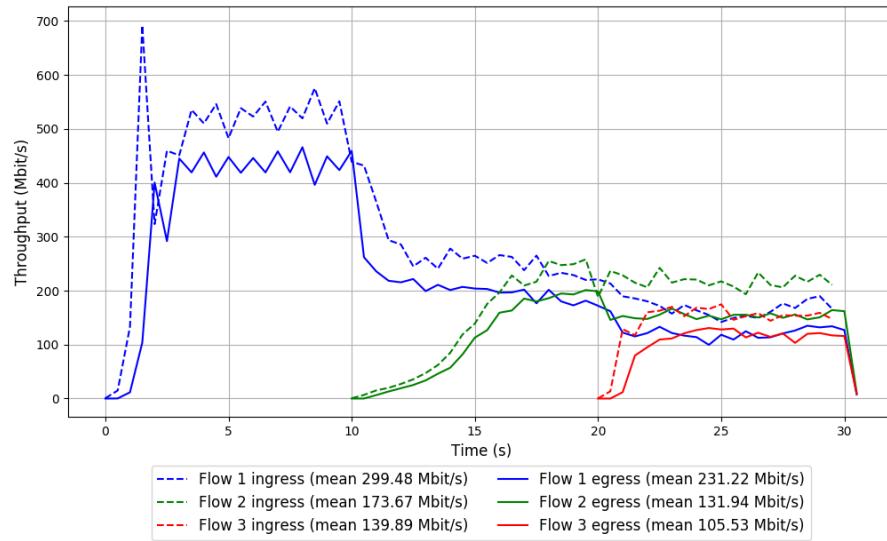


```
Run 2: Statistics of FillP
```

```
Start at: 2019-01-03 00:53:01
End at: 2019-01-03 00:53:31
Local clock offset: 1.533 ms
Remote clock offset: -40.551 ms

# Below is generated by plot.py at 2019-01-03 02:42:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.03 Mbit/s
95th percentile per-packet one-way delay: 64.107 ms
Loss rate: 23.27%
-- Flow 1:
Average throughput: 231.22 Mbit/s
95th percentile per-packet one-way delay: 62.479 ms
Loss rate: 22.78%
-- Flow 2:
Average throughput: 131.94 Mbit/s
95th percentile per-packet one-way delay: 64.623 ms
Loss rate: 24.03%
-- Flow 3:
Average throughput: 105.53 Mbit/s
95th percentile per-packet one-way delay: 64.781 ms
Loss rate: 24.54%
```

Run 2: Report of FillP — Data Link

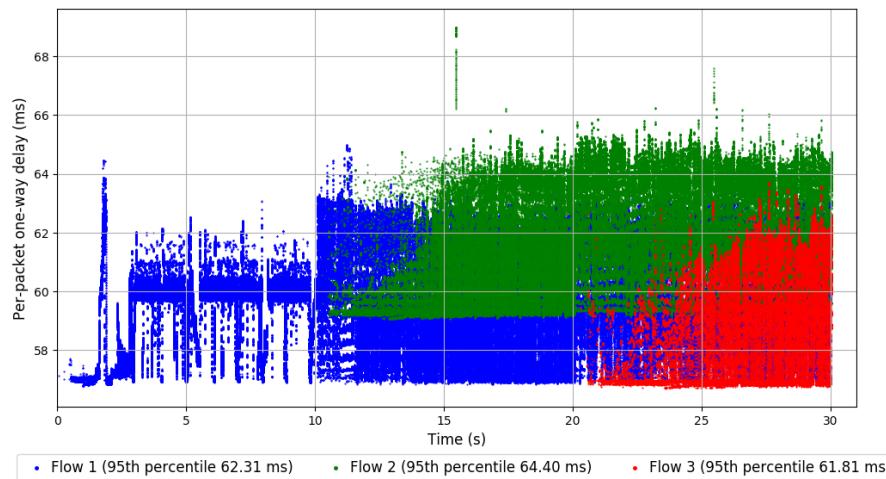
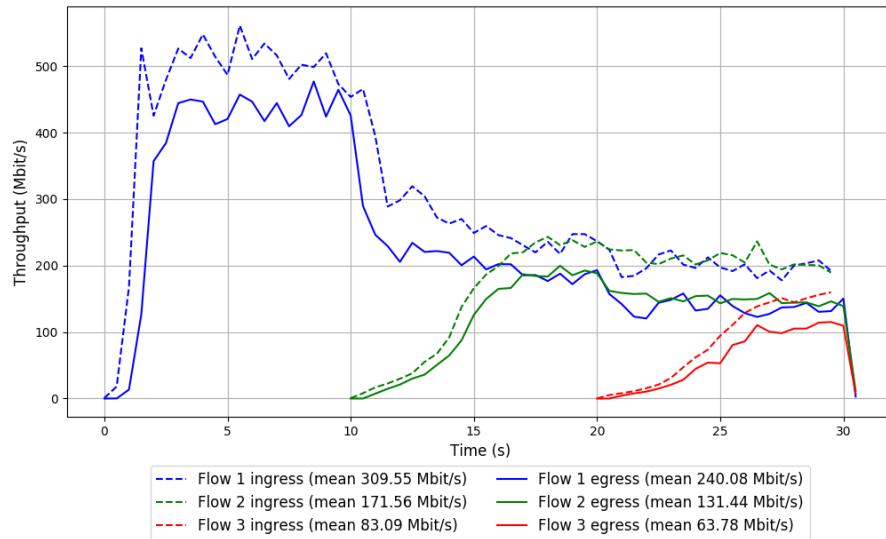


Run 3: Statistics of FillP

```
Start at: 2019-01-03 01:20:18
End at: 2019-01-03 01:20:48
Local clock offset: 2.544 ms
Remote clock offset: -40.414 ms

# Below is generated by plot.py at 2019-01-03 02:42:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.58 Mbit/s
95th percentile per-packet one-way delay: 63.604 ms
Loss rate: 22.73%
-- Flow 1:
Average throughput: 240.08 Mbit/s
95th percentile per-packet one-way delay: 62.309 ms
Loss rate: 22.44%
-- Flow 2:
Average throughput: 131.44 Mbit/s
95th percentile per-packet one-way delay: 64.403 ms
Loss rate: 23.37%
-- Flow 3:
Average throughput: 63.78 Mbit/s
95th percentile per-packet one-way delay: 61.811 ms
Loss rate: 23.22%
```

Run 3: Report of FillP — Data Link

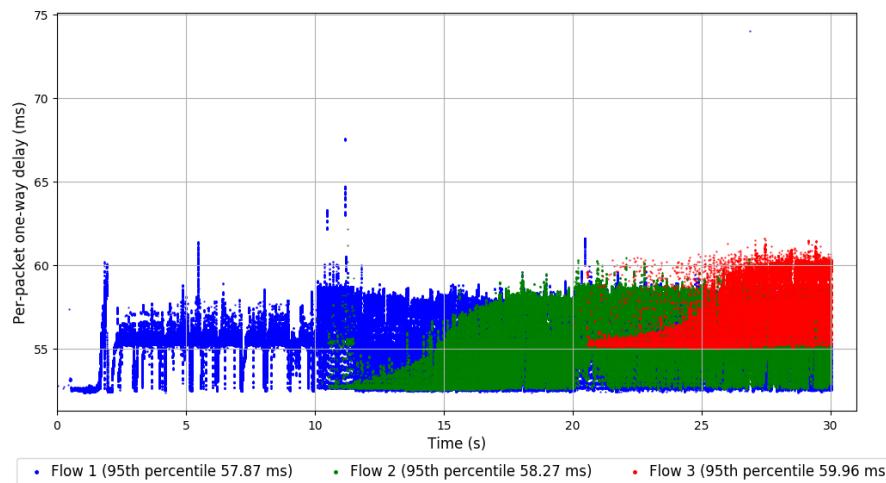
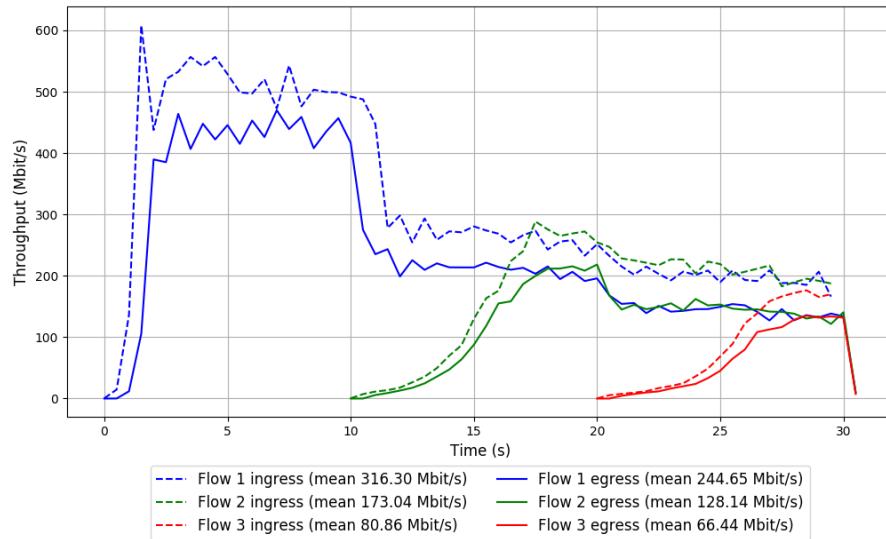


Run 4: Statistics of FillP

```
Start at: 2019-01-03 01:53:34
End at: 2019-01-03 01:54:04
Local clock offset: 1.988 ms
Remote clock offset: -45.21 ms

# Below is generated by plot.py at 2019-01-03 02:42:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 351.82 Mbit/s
95th percentile per-packet one-way delay: 58.247 ms
Loss rate: 23.20%
-- Flow 1:
Average throughput: 244.65 Mbit/s
95th percentile per-packet one-way delay: 57.871 ms
Loss rate: 22.65%
-- Flow 2:
Average throughput: 128.14 Mbit/s
95th percentile per-packet one-way delay: 58.272 ms
Loss rate: 25.96%
-- Flow 3:
Average throughput: 66.44 Mbit/s
95th percentile per-packet one-way delay: 59.959 ms
Loss rate: 17.83%
```

Run 4: Report of FillP — Data Link

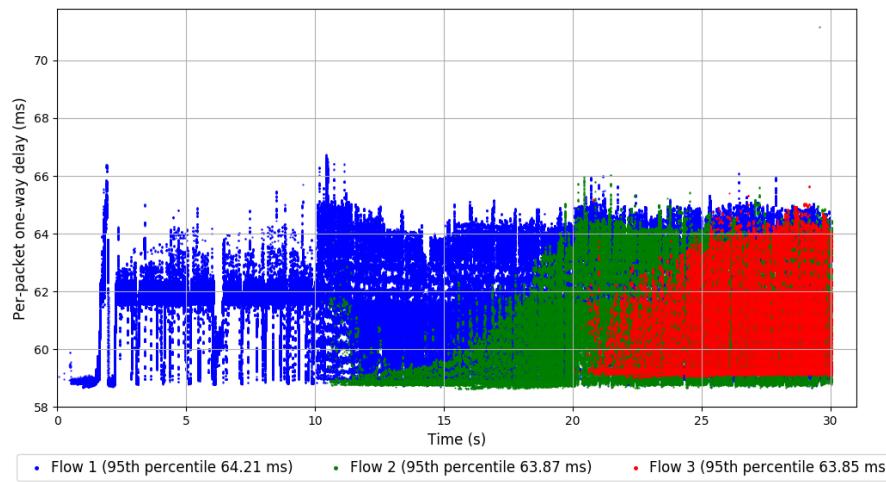
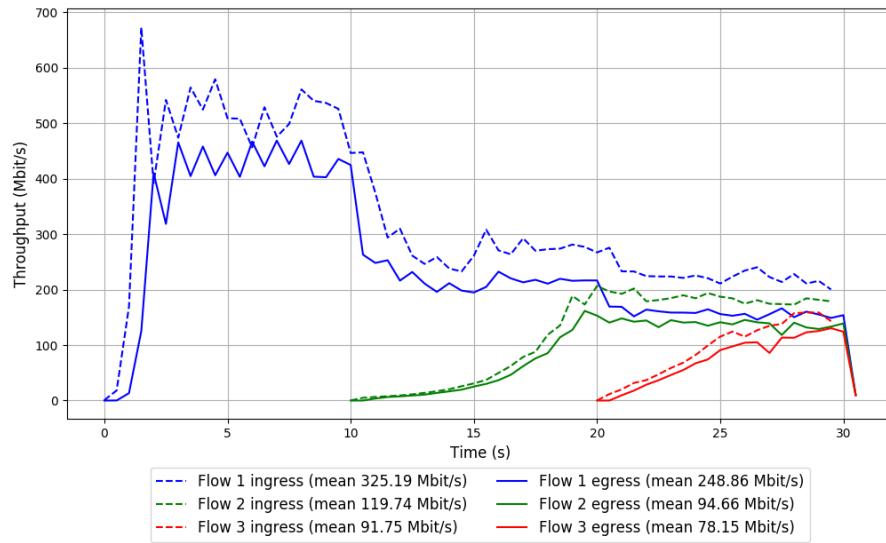


```
Run 5: Statistics of FillP
```

```
Start at: 2019-01-03 02:20:52
End at: 2019-01-03 02:21:22
Local clock offset: 0.489 ms
Remote clock offset: -41.205 ms

# Below is generated by plot.py at 2019-01-03 02:42:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.85 Mbit/s
95th percentile per-packet one-way delay: 64.098 ms
Loss rate: 22.40%
-- Flow 1:
Average throughput: 248.86 Mbit/s
95th percentile per-packet one-way delay: 64.207 ms
Loss rate: 23.47%
-- Flow 2:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 63.872 ms
Loss rate: 20.95%
-- Flow 3:
Average throughput: 78.15 Mbit/s
95th percentile per-packet one-way delay: 63.852 ms
Loss rate: 14.82%
```

Run 5: Report of FillP — Data Link

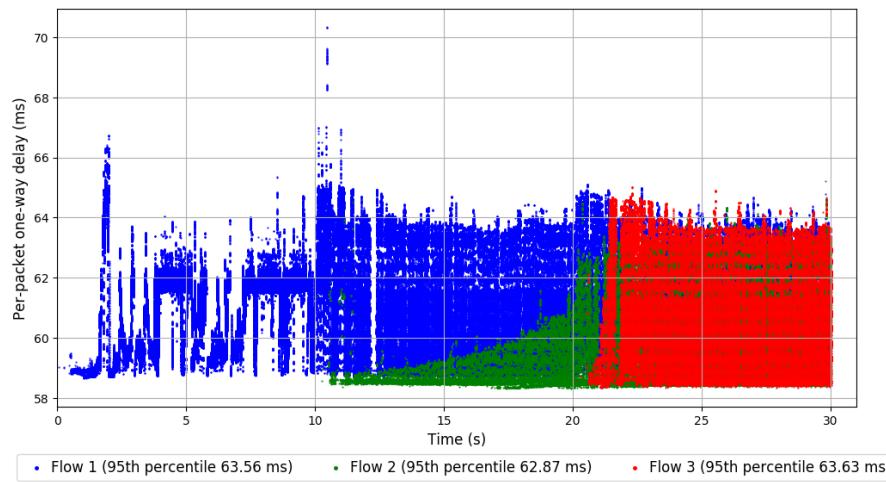
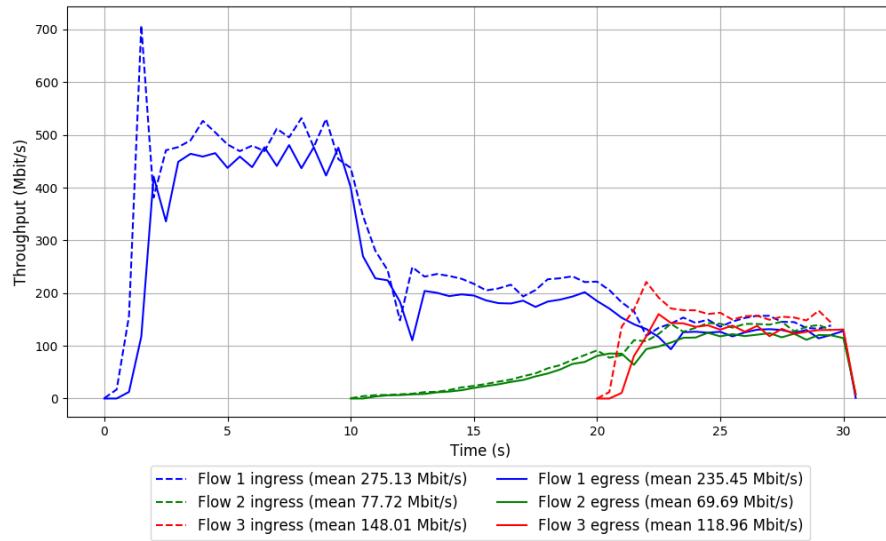


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-01-03 00:30:17
End at: 2019-01-03 00:30:47
Local clock offset: 2.793 ms
Remote clock offset: -38.427 ms

# Below is generated by plot.py at 2019-01-03 02:42:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 321.06 Mbit/s
95th percentile per-packet one-way delay: 63.498 ms
Loss rate: 14.54%
-- Flow 1:
Average throughput: 235.45 Mbit/s
95th percentile per-packet one-way delay: 63.562 ms
Loss rate: 14.42%
-- Flow 2:
Average throughput: 69.69 Mbit/s
95th percentile per-packet one-way delay: 62.868 ms
Loss rate: 10.35%
-- Flow 3:
Average throughput: 118.96 Mbit/s
95th percentile per-packet one-way delay: 63.629 ms
Loss rate: 19.63%
```

Run 1: Report of FillP-Sheep — Data Link

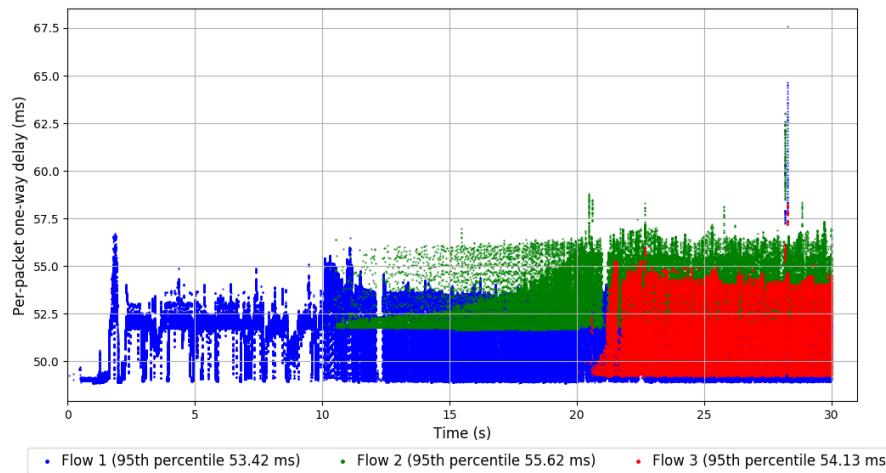
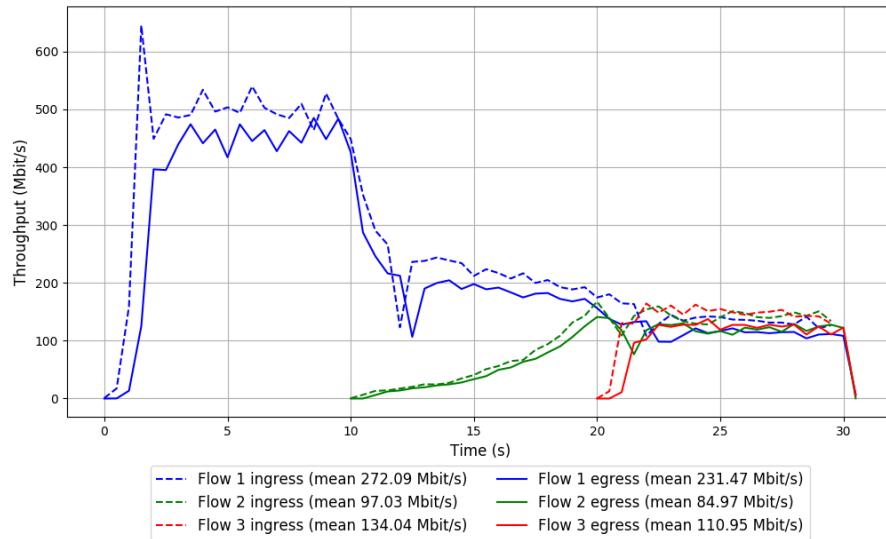


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-03 01:03:20
End at: 2019-01-03 01:03:50
Local clock offset: 3.701 ms
Remote clock offset: -46.735 ms

# Below is generated by plot.py at 2019-01-03 02:43:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.77 Mbit/s
95th percentile per-packet one-way delay: 54.700 ms
Loss rate: 14.76%
-- Flow 1:
Average throughput: 231.47 Mbit/s
95th percentile per-packet one-way delay: 53.420 ms
Loss rate: 14.92%
-- Flow 2:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 55.619 ms
Loss rate: 12.40%
-- Flow 3:
Average throughput: 110.95 Mbit/s
95th percentile per-packet one-way delay: 54.127 ms
Loss rate: 17.22%
```

Run 2: Report of FillP-Sheep — Data Link

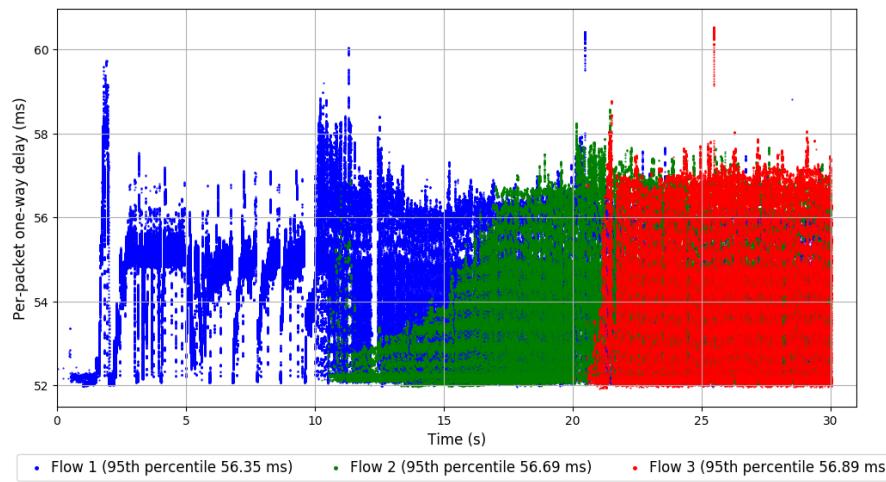
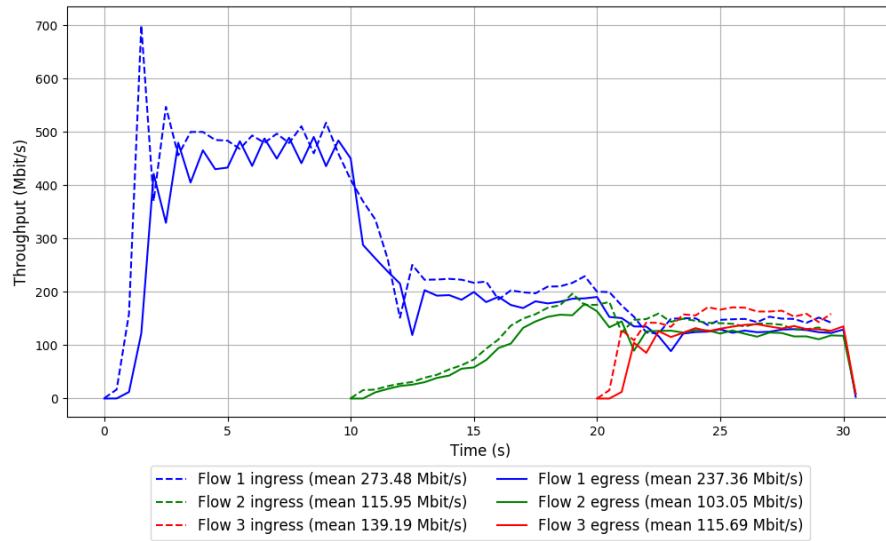


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-03 01:36:13
End at: 2019-01-03 01:36:43
Local clock offset: 2.771 ms
Remote clock offset: -45.008 ms

# Below is generated by plot.py at 2019-01-03 02:44:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.19 Mbit/s
95th percentile per-packet one-way delay: 56.589 ms
Loss rate: 13.23%
-- Flow 1:
Average throughput: 237.36 Mbit/s
95th percentile per-packet one-way delay: 56.350 ms
Loss rate: 13.21%
-- Flow 2:
Average throughput: 103.05 Mbit/s
95th percentile per-packet one-way delay: 56.688 ms
Loss rate: 11.13%
-- Flow 3:
Average throughput: 115.69 Mbit/s
95th percentile per-packet one-way delay: 56.894 ms
Loss rate: 16.89%
```

Run 3: Report of FillP-Sheep — Data Link

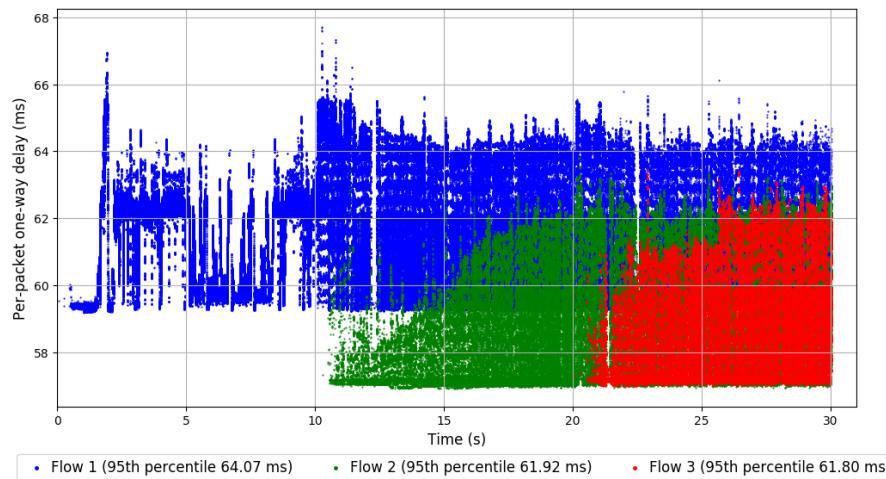
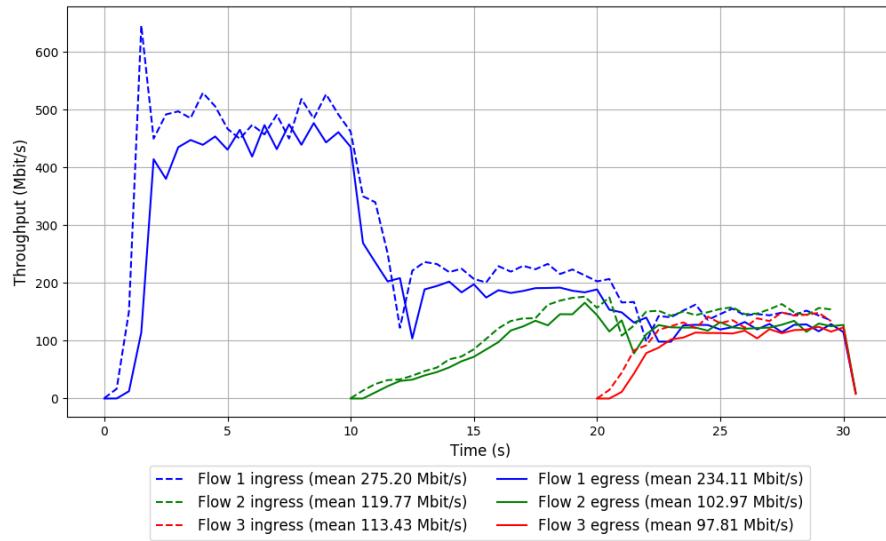


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-03 02:03:46
End at: 2019-01-03 02:04:16
Local clock offset: 2.316 ms
Remote clock offset: -40.861 ms

# Below is generated by plot.py at 2019-01-03 02:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.03 Mbit/s
95th percentile per-packet one-way delay: 63.832 ms
Loss rate: 14.63%
-- Flow 1:
Average throughput: 234.11 Mbit/s
95th percentile per-packet one-way delay: 64.069 ms
Loss rate: 14.92%
-- Flow 2:
Average throughput: 102.97 Mbit/s
95th percentile per-packet one-way delay: 61.916 ms
Loss rate: 14.03%
-- Flow 3:
Average throughput: 97.81 Mbit/s
95th percentile per-packet one-way delay: 61.798 ms
Loss rate: 13.75%
```

Run 4: Report of FillP-Sheep — Data Link

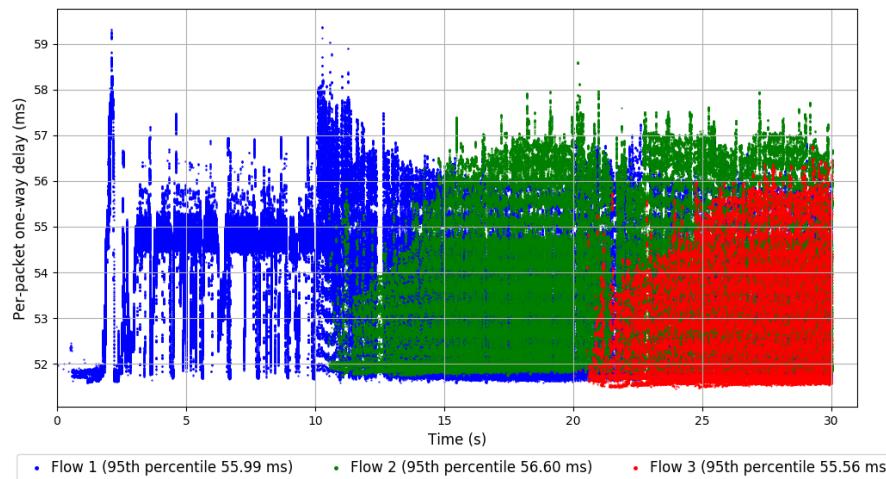
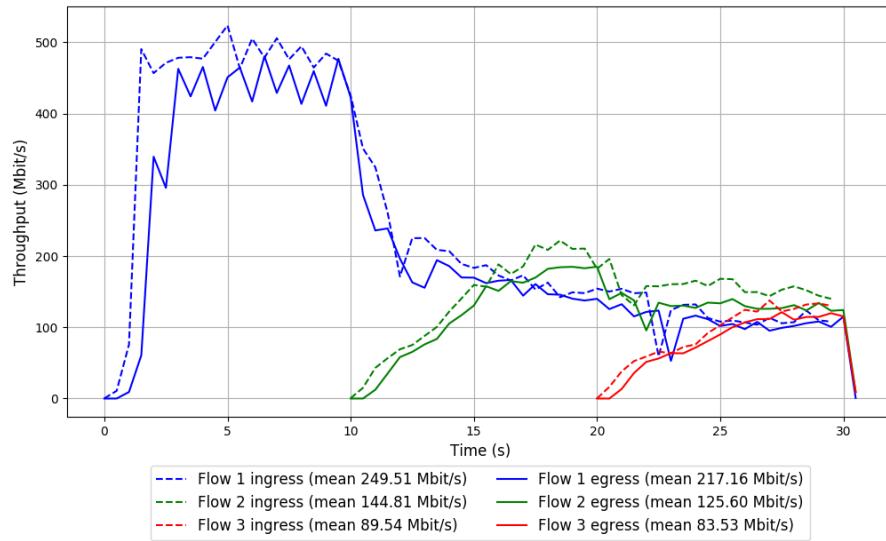


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-03 02:31:03
End at: 2019-01-03 02:31:33
Local clock offset: 2.757 ms
Remote clock offset: -45.722 ms

# Below is generated by plot.py at 2019-01-03 02:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.33 Mbit/s
95th percentile per-packet one-way delay: 56.253 ms
Loss rate: 12.55%
-- Flow 1:
Average throughput: 217.16 Mbit/s
95th percentile per-packet one-way delay: 55.989 ms
Loss rate: 12.97%
-- Flow 2:
Average throughput: 125.60 Mbit/s
95th percentile per-packet one-way delay: 56.604 ms
Loss rate: 13.28%
-- Flow 3:
Average throughput: 83.53 Mbit/s
95th percentile per-packet one-way delay: 55.559 ms
Loss rate: 6.71%
```

Run 5: Report of FillP-Sheep — Data Link

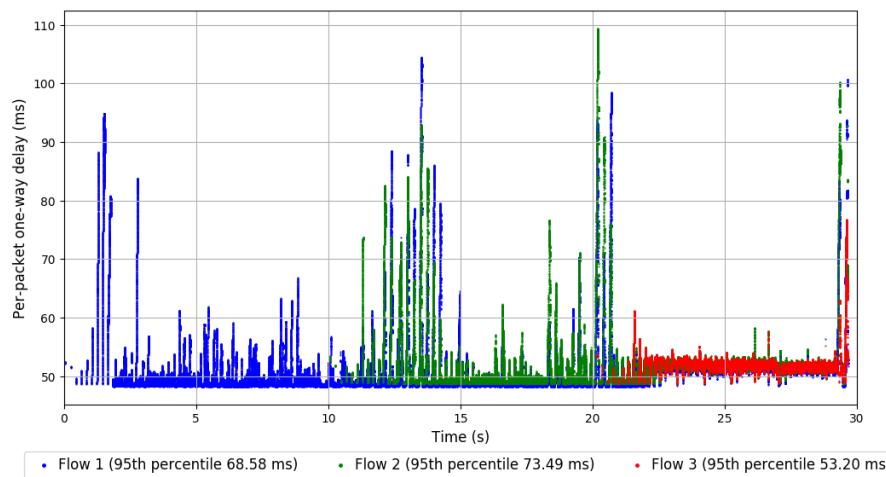
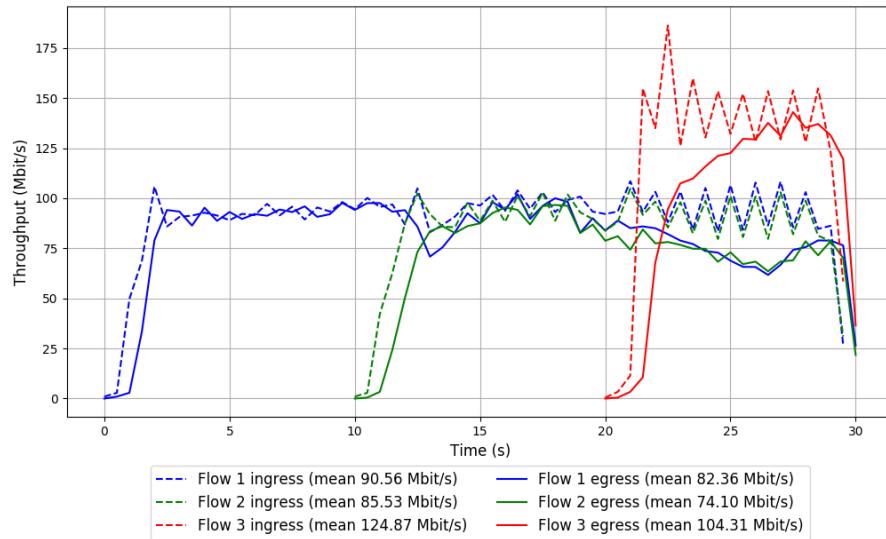


Run 1: Statistics of Indigo

```
Start at: 2019-01-03 00:14:29
End at: 2019-01-03 00:14:59
Local clock offset: 3.115 ms
Remote clock offset: -48.37 ms

# Below is generated by plot.py at 2019-01-03 02:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.86 Mbit/s
95th percentile per-packet one-way delay: 66.652 ms
Loss rate: 11.93%
-- Flow 1:
Average throughput: 82.36 Mbit/s
95th percentile per-packet one-way delay: 68.578 ms
Loss rate: 9.04%
-- Flow 2:
Average throughput: 74.10 Mbit/s
95th percentile per-packet one-way delay: 73.490 ms
Loss rate: 13.37%
-- Flow 3:
Average throughput: 104.31 Mbit/s
95th percentile per-packet one-way delay: 53.200 ms
Loss rate: 16.44%
```

Run 1: Report of Indigo — Data Link

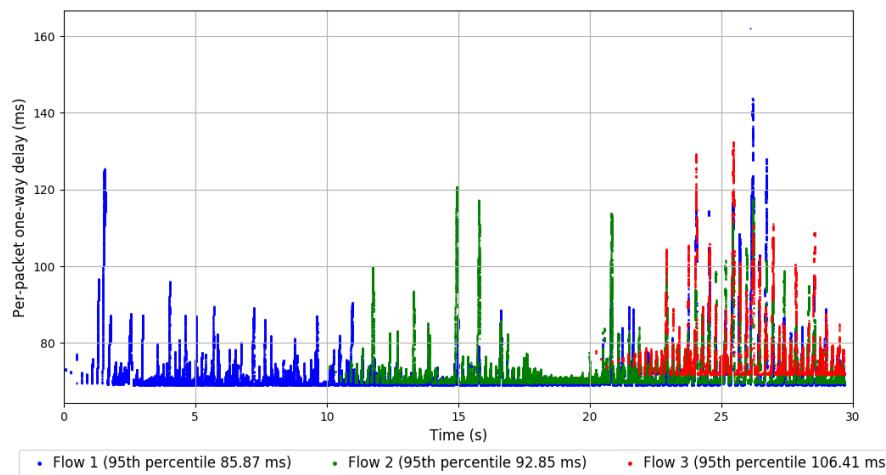
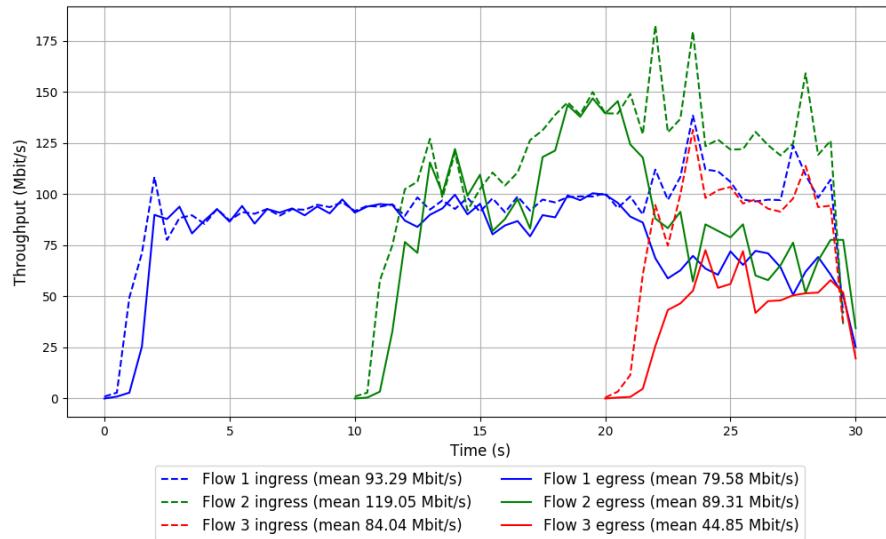


Run 2: Statistics of Indigo

```
Start at: 2019-01-03 00:47:28
End at: 2019-01-03 00:47:58
Local clock offset: -3.354 ms
Remote clock offset: -33.463 ms

# Below is generated by plot.py at 2019-01-03 02:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 152.93 Mbit/s
95th percentile per-packet one-way delay: 93.399 ms
Loss rate: 23.09%
-- Flow 1:
Average throughput: 79.58 Mbit/s
95th percentile per-packet one-way delay: 85.871 ms
Loss rate: 14.71%
-- Flow 2:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 92.847 ms
Loss rate: 24.98%
-- Flow 3:
Average throughput: 44.85 Mbit/s
95th percentile per-packet one-way delay: 106.414 ms
Loss rate: 46.66%
```

Run 2: Report of Indigo — Data Link

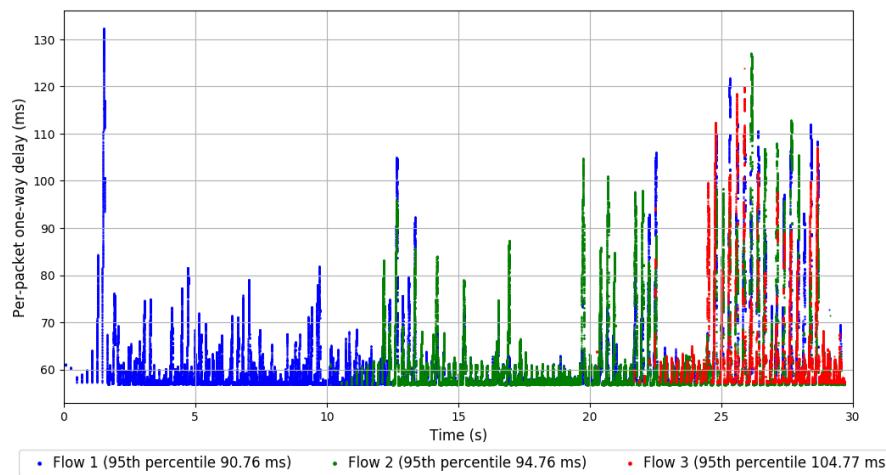
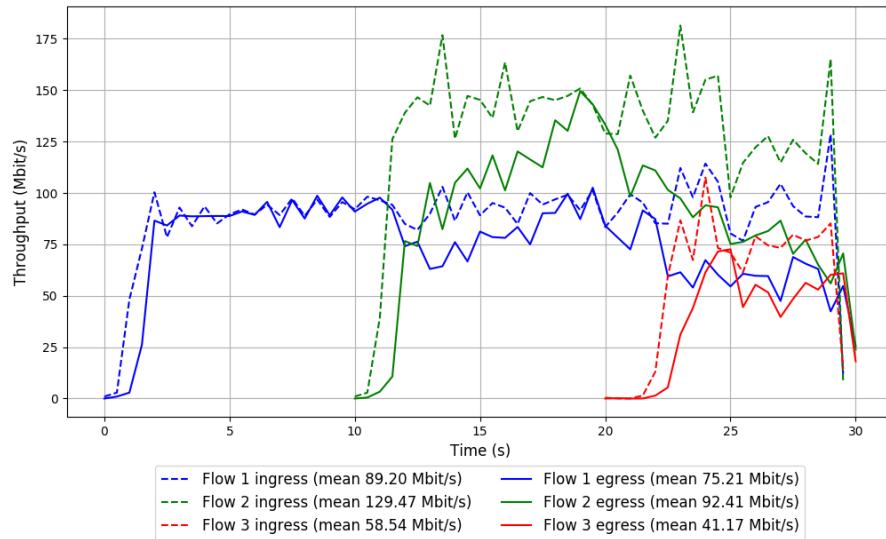


Run 3: Statistics of Indigo

```
Start at: 2019-01-03 01:14:47
End at: 2019-01-03 01:15:17
Local clock offset: 1.943 ms
Remote clock offset: -41.055 ms

# Below is generated by plot.py at 2019-01-03 02:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 149.28 Mbit/s
95th percentile per-packet one-way delay: 94.798 ms
Loss rate: 22.76%
-- Flow 1:
Average throughput: 75.21 Mbit/s
95th percentile per-packet one-way delay: 90.760 ms
Loss rate: 15.70%
-- Flow 2:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 94.757 ms
Loss rate: 28.63%
-- Flow 3:
Average throughput: 41.17 Mbit/s
95th percentile per-packet one-way delay: 104.767 ms
Loss rate: 29.69%
```

Run 3: Report of Indigo — Data Link

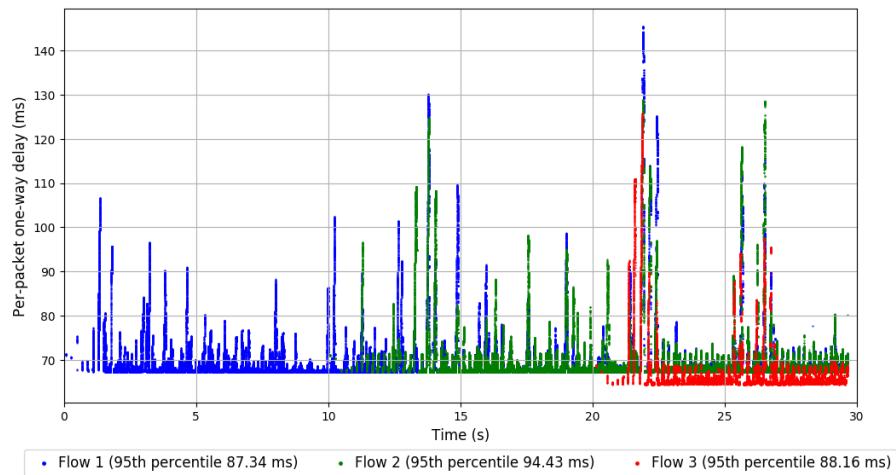
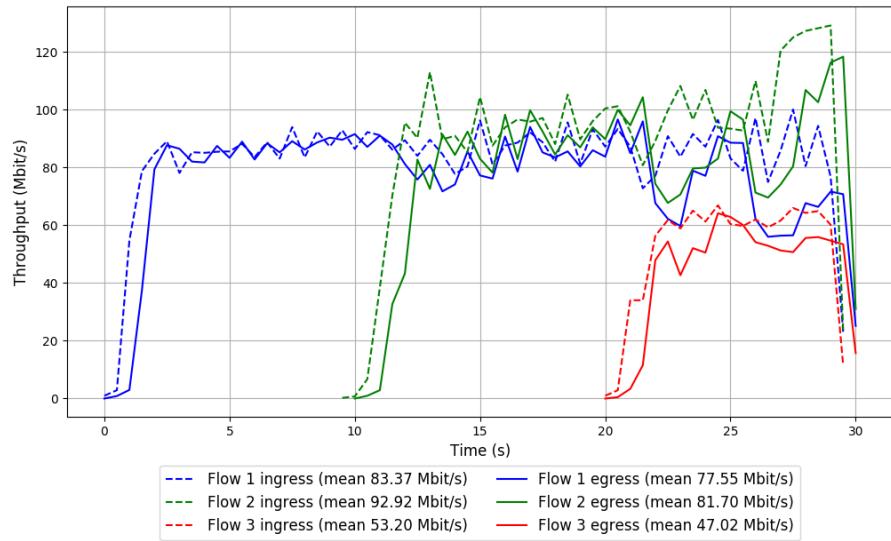


Run 4: Statistics of Indigo

```
Start at: 2019-01-03 01:48:00
End at: 2019-01-03 01:48:30
Local clock offset: 1.194 ms
Remote clock offset: -33.655 ms

# Below is generated by plot.py at 2019-01-03 02:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.76 Mbit/s
95th percentile per-packet one-way delay: 89.848 ms
Loss rate: 9.39%
-- Flow 1:
Average throughput: 77.55 Mbit/s
95th percentile per-packet one-way delay: 87.336 ms
Loss rate: 6.98%
-- Flow 2:
Average throughput: 81.70 Mbit/s
95th percentile per-packet one-way delay: 94.430 ms
Loss rate: 12.04%
-- Flow 3:
Average throughput: 47.02 Mbit/s
95th percentile per-packet one-way delay: 88.157 ms
Loss rate: 11.63%
```

Run 4: Report of Indigo — Data Link

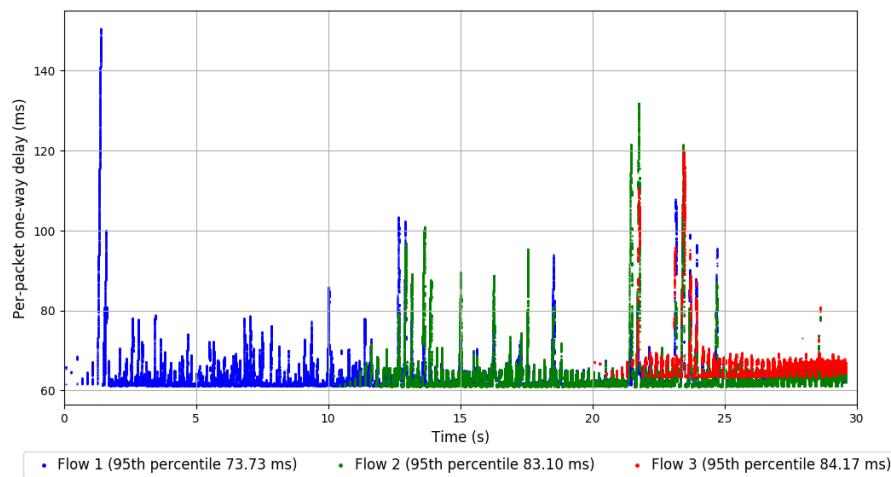
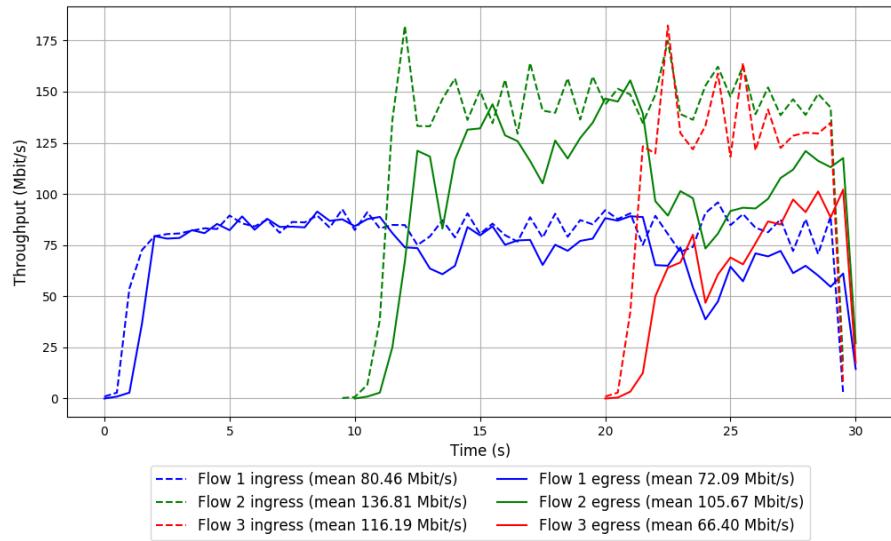


Run 5: Statistics of Indigo

```
Start at: 2019-01-03 02:15:16
End at: 2019-01-03 02:15:46
Local clock offset: 0.783 ms
Remote clock offset: -38.632 ms

# Below is generated by plot.py at 2019-01-03 02:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 163.49 Mbit/s
95th percentile per-packet one-way delay: 77.940 ms
Loss rate: 21.60%
-- Flow 1:
Average throughput: 72.09 Mbit/s
95th percentile per-packet one-way delay: 73.732 ms
Loss rate: 10.39%
-- Flow 2:
Average throughput: 105.67 Mbit/s
95th percentile per-packet one-way delay: 83.102 ms
Loss rate: 22.75%
-- Flow 3:
Average throughput: 66.40 Mbit/s
95th percentile per-packet one-way delay: 84.173 ms
Loss rate: 42.87%
```

Run 5: Report of Indigo — Data Link

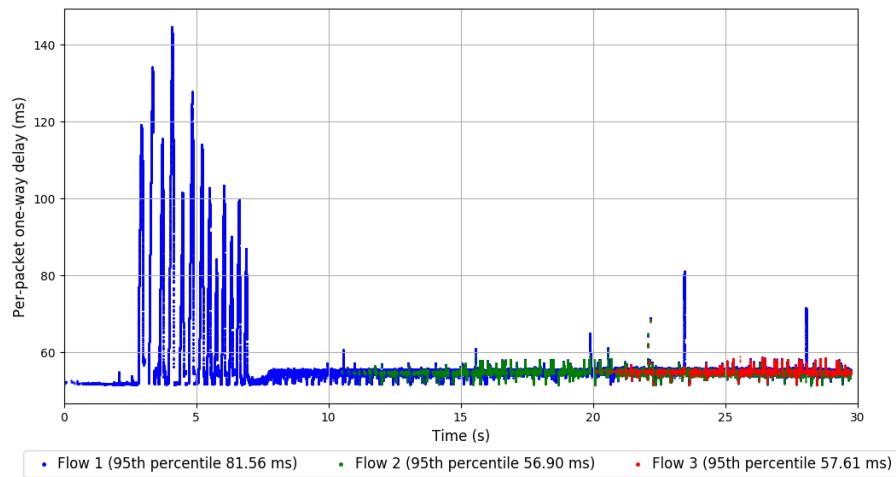
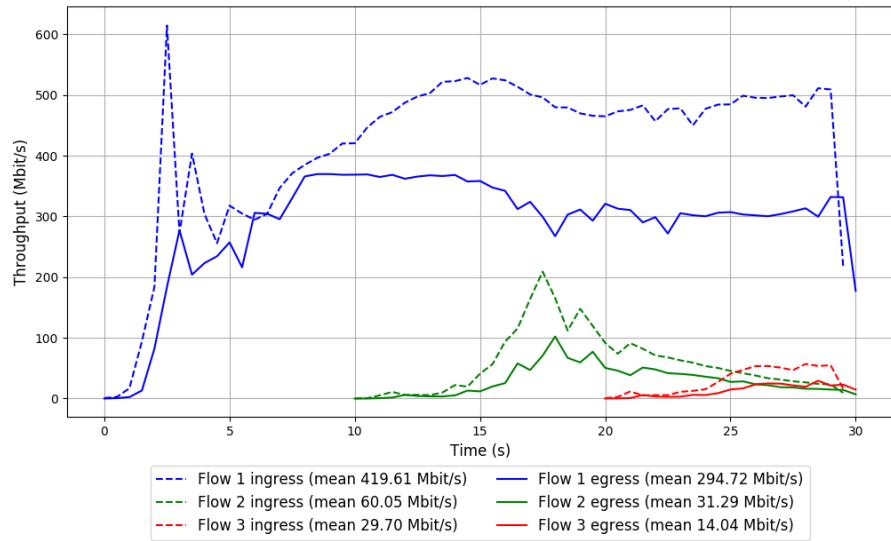


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-03 00:07:28
End at: 2019-01-03 00:07:58
Local clock offset: 3.019 ms
Remote clock offset: -45.679 ms

# Below is generated by plot.py at 2019-01-03 02:48:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.56 Mbit/s
95th percentile per-packet one-way delay: 78.712 ms
Loss rate: 31.74%
-- Flow 1:
Average throughput: 294.72 Mbit/s
95th percentile per-packet one-way delay: 81.561 ms
Loss rate: 29.76%
-- Flow 2:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 56.903 ms
Loss rate: 47.90%
-- Flow 3:
Average throughput: 14.04 Mbit/s
95th percentile per-packet one-way delay: 57.613 ms
Loss rate: 52.74%
```

Run 1: Report of Indigo-MusesD — Data Link

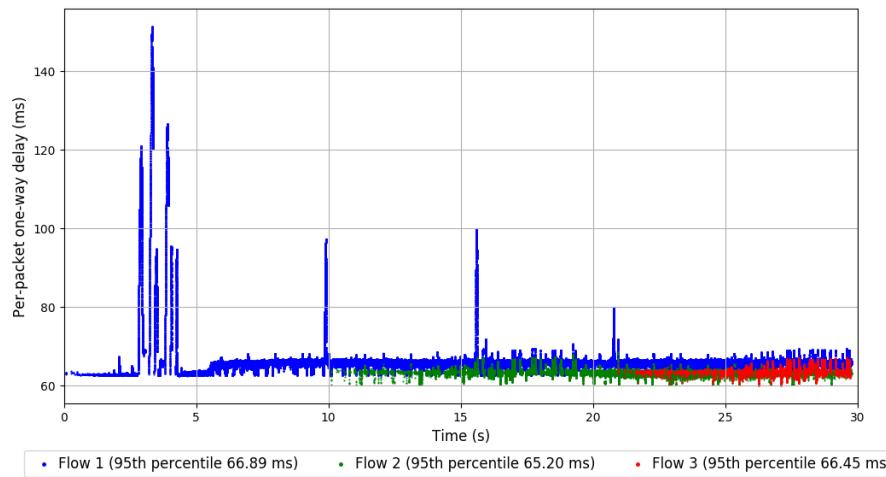
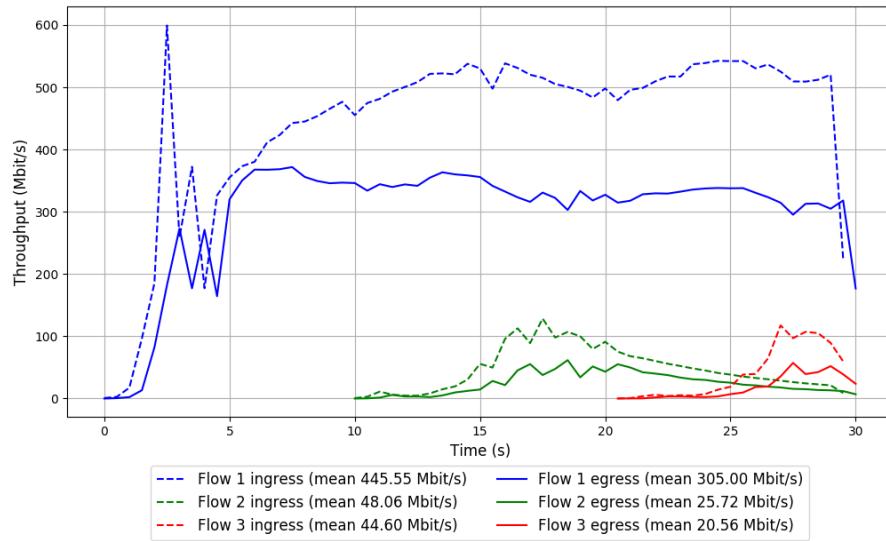


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-03 00:34:45
End at: 2019-01-03 00:35:15
Local clock offset: 2.402 ms
Remote clock offset: -37.153 ms

# Below is generated by plot.py at 2019-01-03 02:48:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.10 Mbit/s
95th percentile per-packet one-way delay: 66.703 ms
Loss rate: 33.11%
-- Flow 1:
Average throughput: 305.00 Mbit/s
95th percentile per-packet one-way delay: 66.893 ms
Loss rate: 31.54%
-- Flow 2:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 65.197 ms
Loss rate: 46.48%
-- Flow 3:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 66.449 ms
Loss rate: 53.95%
```

Run 2: Report of Indigo-MusesD — Data Link

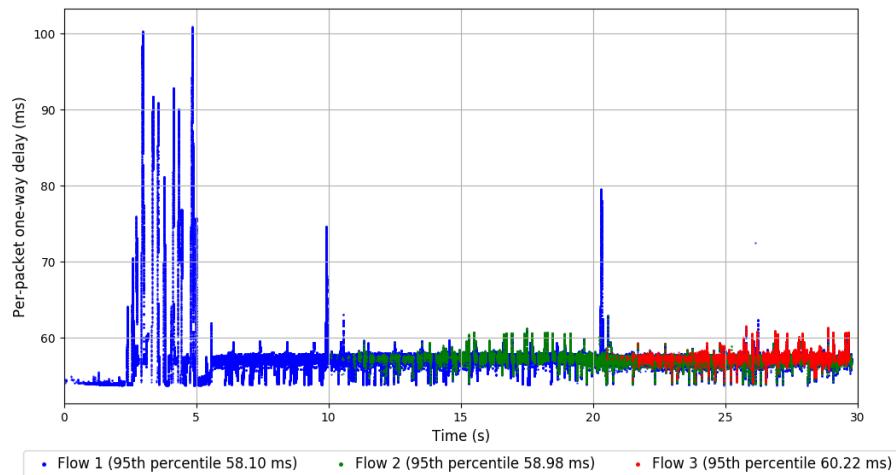
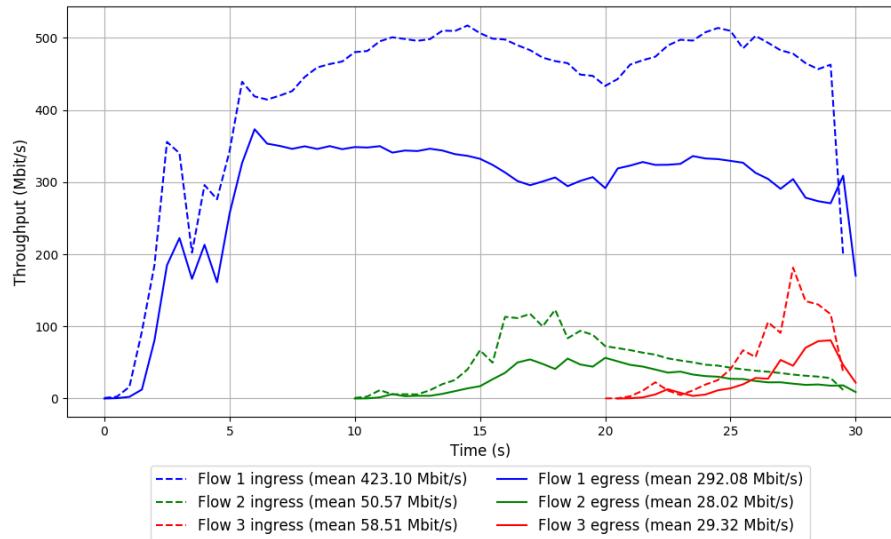


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-03 01:07:45
End at: 2019-01-03 01:08:15
Local clock offset: 3.171 ms
Remote clock offset: -42.667 ms

# Below is generated by plot.py at 2019-01-03 02:48:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.68 Mbit/s
95th percentile per-packet one-way delay: 58.335 ms
Loss rate: 32.64%
-- Flow 1:
Average throughput: 292.08 Mbit/s
95th percentile per-packet one-way delay: 58.105 ms
Loss rate: 30.96%
-- Flow 2:
Average throughput: 28.02 Mbit/s
95th percentile per-packet one-way delay: 58.978 ms
Loss rate: 44.60%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 60.222 ms
Loss rate: 49.88%
```

Run 3: Report of Indigo-MusesD — Data Link

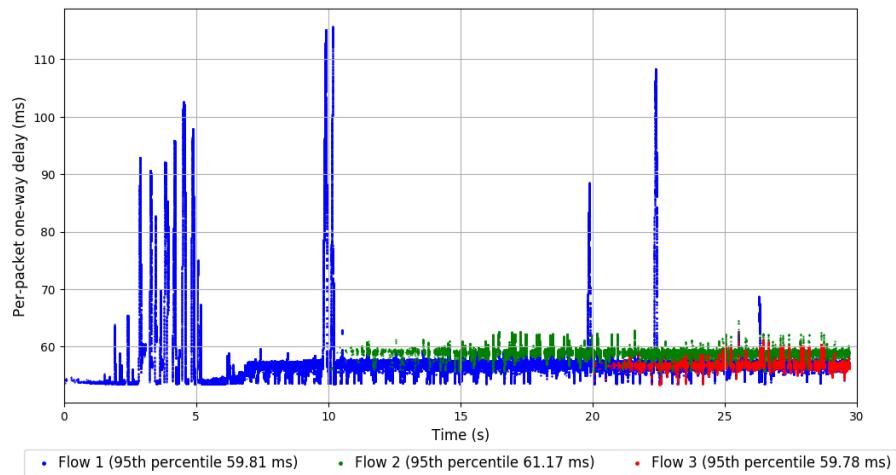
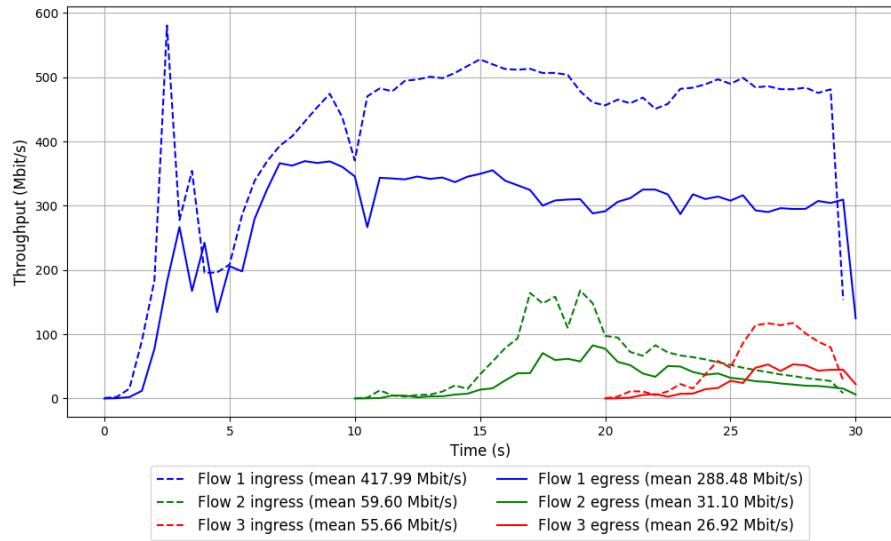


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-03 01:40:38
End at: 2019-01-03 01:41:08
Local clock offset: -0.566 ms
Remote clock offset: -47.154 ms

# Below is generated by plot.py at 2019-01-03 02:48:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.77 Mbit/s
95th percentile per-packet one-way delay: 59.921 ms
Loss rate: 33.16%
-- Flow 1:
Average throughput: 288.48 Mbit/s
95th percentile per-packet one-way delay: 59.808 ms
Loss rate: 30.98%
-- Flow 2:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 61.168 ms
Loss rate: 47.82%
-- Flow 3:
Average throughput: 26.92 Mbit/s
95th percentile per-packet one-way delay: 59.784 ms
Loss rate: 51.62%
```

Run 4: Report of Indigo-MusesD — Data Link

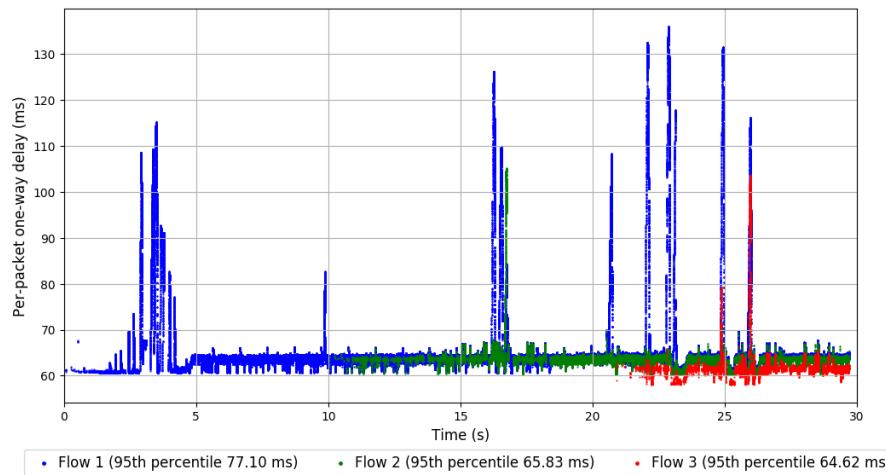
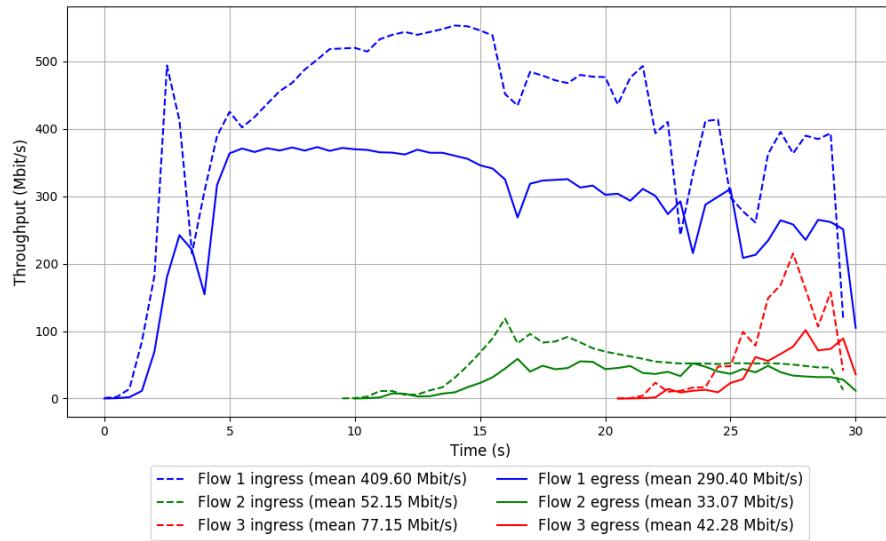


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-03 02:08:13
End at: 2019-01-03 02:08:43
Local clock offset: 0.672 ms
Remote clock offset: -41.56 ms

# Below is generated by plot.py at 2019-01-03 02:48:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.87 Mbit/s
95th percentile per-packet one-way delay: 72.589 ms
Loss rate: 30.44%
-- Flow 1:
Average throughput: 290.40 Mbit/s
95th percentile per-packet one-way delay: 77.104 ms
Loss rate: 29.10%
-- Flow 2:
Average throughput: 33.07 Mbit/s
95th percentile per-packet one-way delay: 65.832 ms
Loss rate: 36.57%
-- Flow 3:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 64.625 ms
Loss rate: 45.18%
```

Run 5: Report of Indigo-MusesD — Data Link

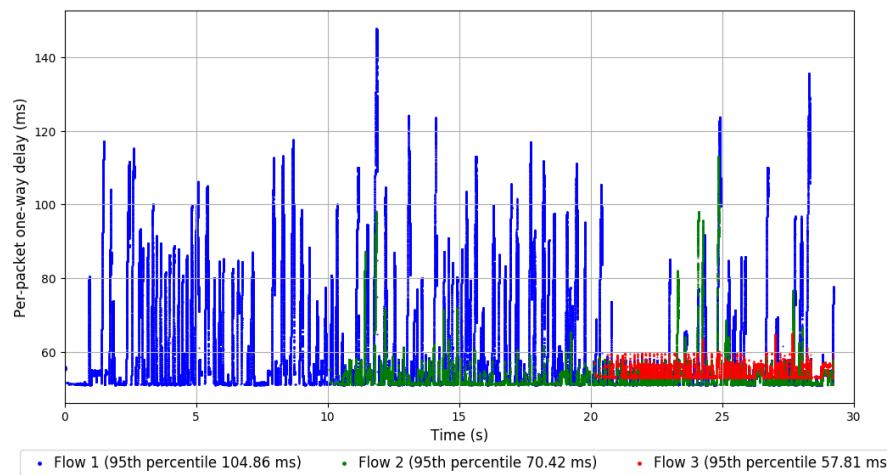
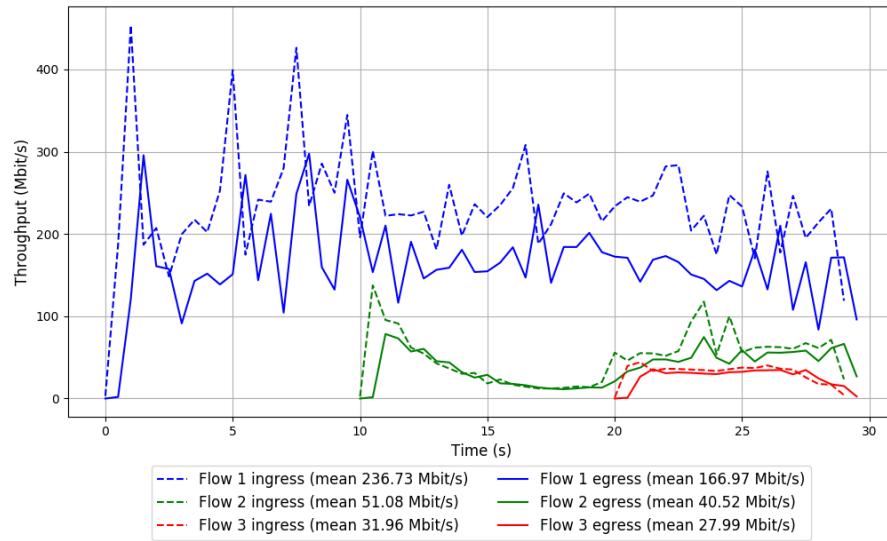


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 00:24:24
End at: 2019-01-03 00:24:54
Local clock offset: 1.652 ms
Remote clock offset: -47.468 ms

# Below is generated by plot.py at 2019-01-03 02:48:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 202.28 Mbit/s
95th percentile per-packet one-way delay: 102.735 ms
Loss rate: 27.82%
-- Flow 1:
Average throughput: 166.97 Mbit/s
95th percentile per-packet one-way delay: 104.865 ms
Loss rate: 29.47%
-- Flow 2:
Average throughput: 40.52 Mbit/s
95th percentile per-packet one-way delay: 70.425 ms
Loss rate: 20.68%
-- Flow 3:
Average throughput: 27.99 Mbit/s
95th percentile per-packet one-way delay: 57.812 ms
Loss rate: 12.44%
```

Run 1: Report of Indigo-MusesT — Data Link

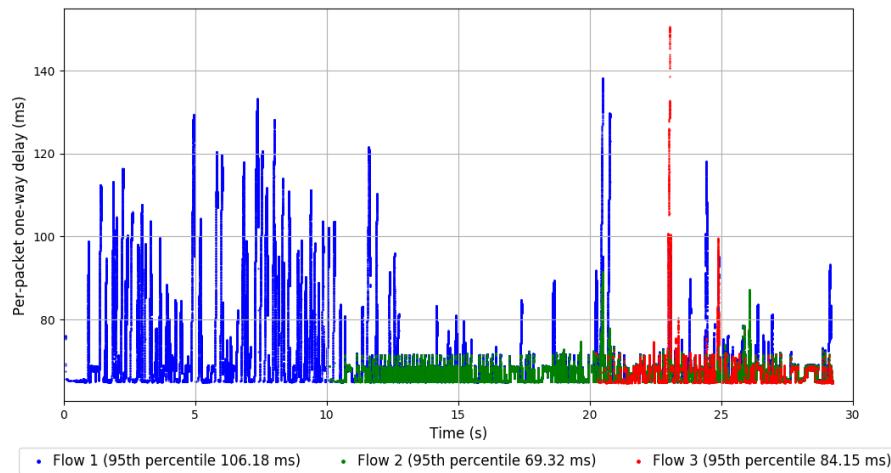
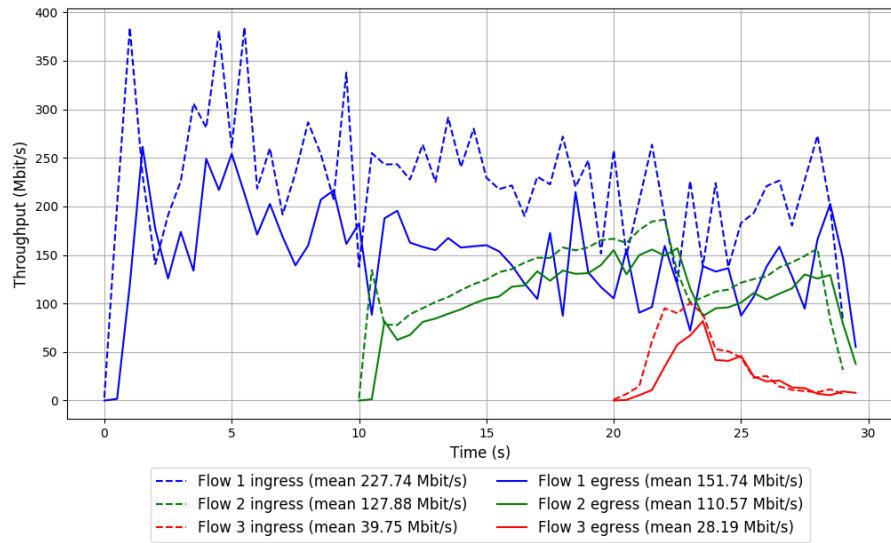


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 00:57:21
End at: 2019-01-03 00:57:51
Local clock offset: 1.378 ms
Remote clock offset: -33.443 ms

# Below is generated by plot.py at 2019-01-03 02:49:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 232.99 Mbit/s
95th percentile per-packet one-way delay: 98.928 ms
Loss rate: 28.08%
-- Flow 1:
Average throughput: 151.74 Mbit/s
95th percentile per-packet one-way delay: 106.177 ms
Loss rate: 33.38%
-- Flow 2:
Average throughput: 110.57 Mbit/s
95th percentile per-packet one-way delay: 69.323 ms
Loss rate: 13.55%
-- Flow 3:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 84.154 ms
Loss rate: 29.14%
```

Run 2: Report of Indigo-MusesT — Data Link

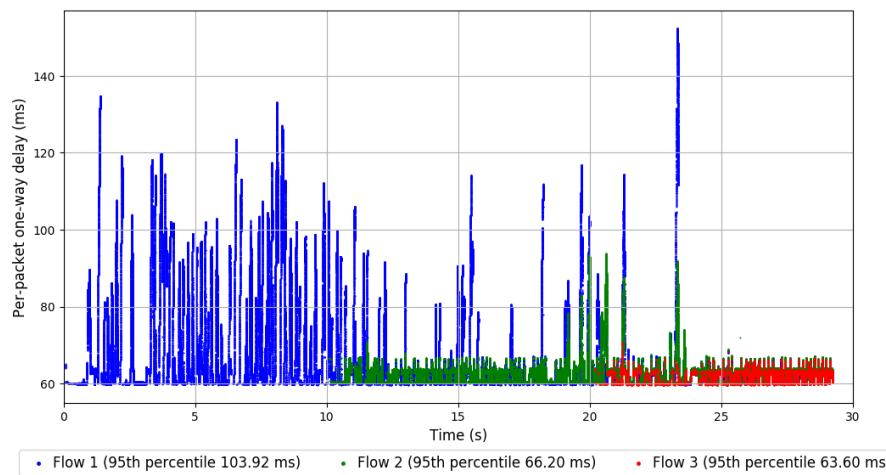
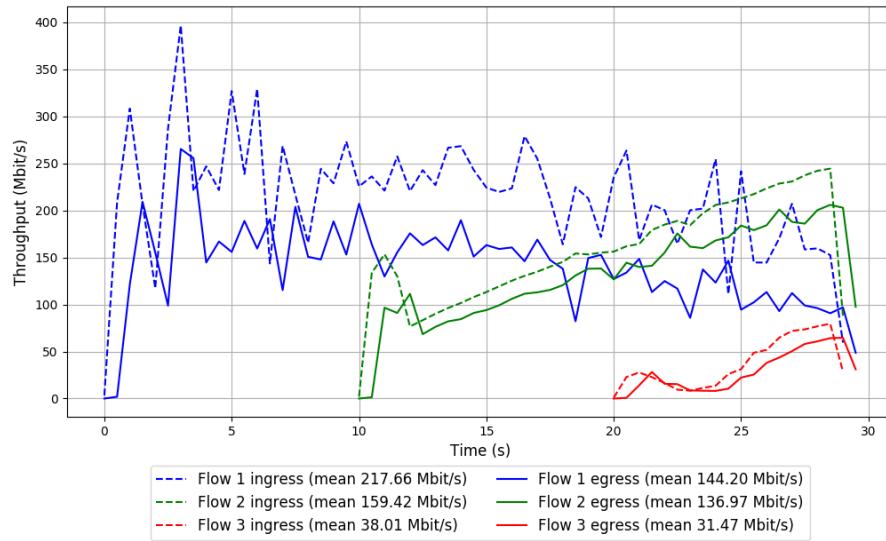


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 01:24:39
End at: 2019-01-03 01:25:09
Local clock offset: 4.985 ms
Remote clock offset: -34.995 ms

# Below is generated by plot.py at 2019-01-03 02:49:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.67 Mbit/s
95th percentile per-packet one-way delay: 96.661 ms
Loss rate: 27.02%
-- Flow 1:
Average throughput: 144.20 Mbit/s
95th percentile per-packet one-way delay: 103.923 ms
Loss rate: 33.75%
-- Flow 2:
Average throughput: 136.97 Mbit/s
95th percentile per-packet one-way delay: 66.201 ms
Loss rate: 14.10%
-- Flow 3:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 63.602 ms
Loss rate: 17.25%
```

Run 3: Report of Indigo-MusesT — Data Link

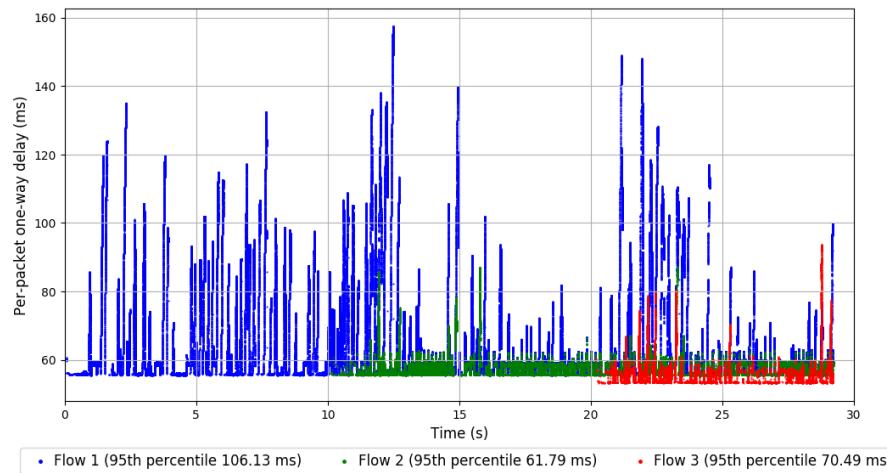
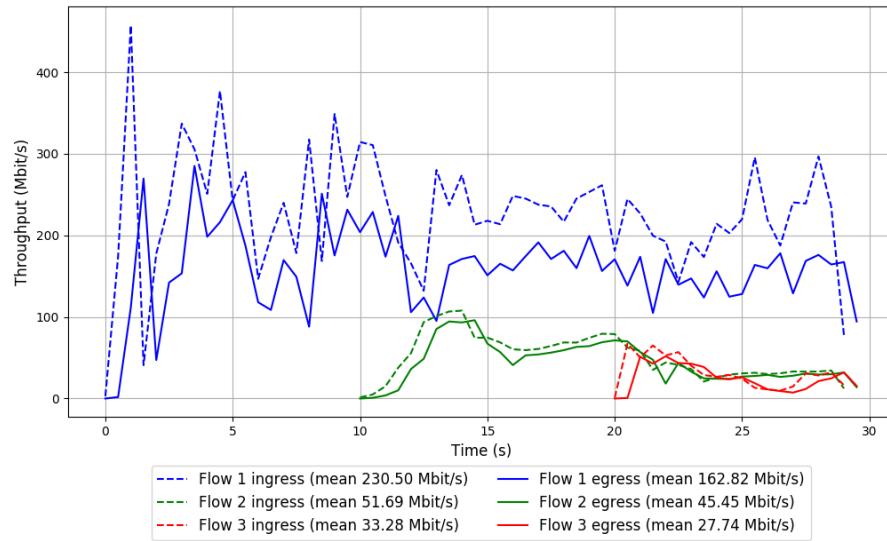


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 01:57:52
End at: 2019-01-03 01:58:22
Local clock offset: 1.305 ms
Remote clock offset: -45.699 ms

# Below is generated by plot.py at 2019-01-03 02:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 201.20 Mbit/s
95th percentile per-packet one-way delay: 103.463 ms
Loss rate: 26.76%
-- Flow 1:
Average throughput: 162.82 Mbit/s
95th percentile per-packet one-way delay: 106.129 ms
Loss rate: 29.37%
-- Flow 2:
Average throughput: 45.45 Mbit/s
95th percentile per-packet one-way delay: 61.788 ms
Loss rate: 12.11%
-- Flow 3:
Average throughput: 27.74 Mbit/s
95th percentile per-packet one-way delay: 70.487 ms
Loss rate: 16.68%
```

Run 4: Report of Indigo-MusesT — Data Link

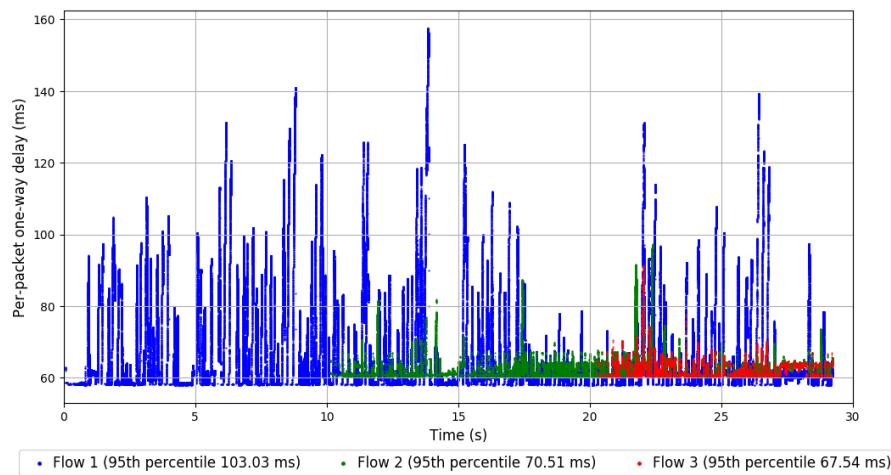
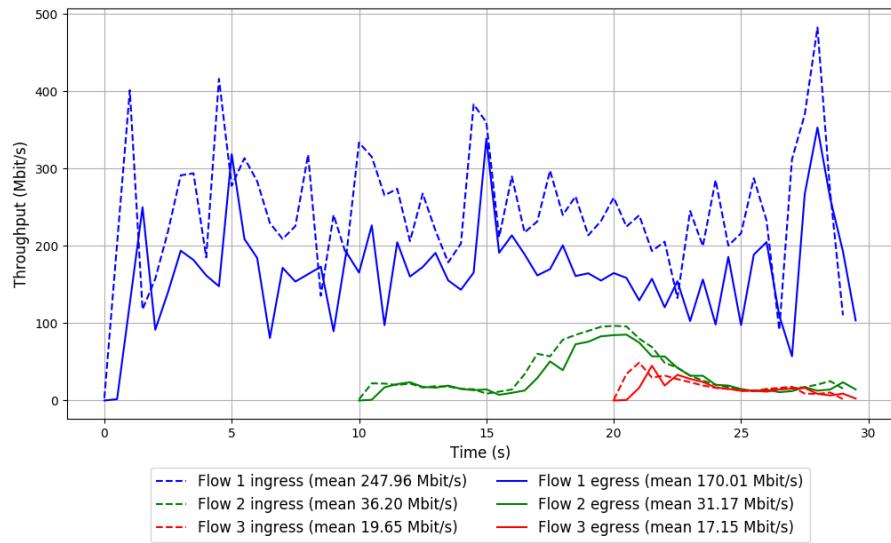


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-03 02:25:06
End at: 2019-01-03 02:25:36
Local clock offset: 3.436 ms
Remote clock offset: -38.865 ms

# Below is generated by plot.py at 2019-01-03 02:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 195.71 Mbit/s
95th percentile per-packet one-way delay: 100.147 ms
Loss rate: 29.53%
-- Flow 1:
Average throughput: 170.01 Mbit/s
95th percentile per-packet one-way delay: 103.031 ms
Loss rate: 31.43%
-- Flow 2:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 70.514 ms
Loss rate: 13.89%
-- Flow 3:
Average throughput: 17.15 Mbit/s
95th percentile per-packet one-way delay: 67.539 ms
Loss rate: 12.72%
```

Run 5: Report of Indigo-MusesT — Data Link

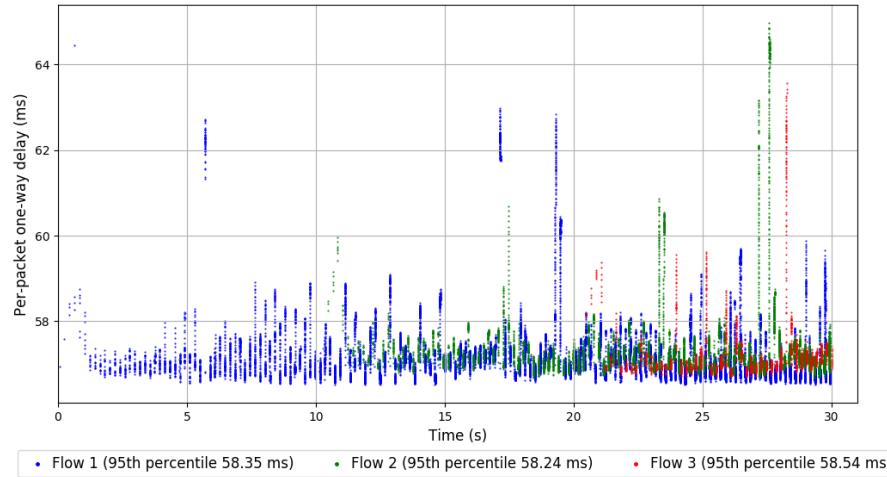
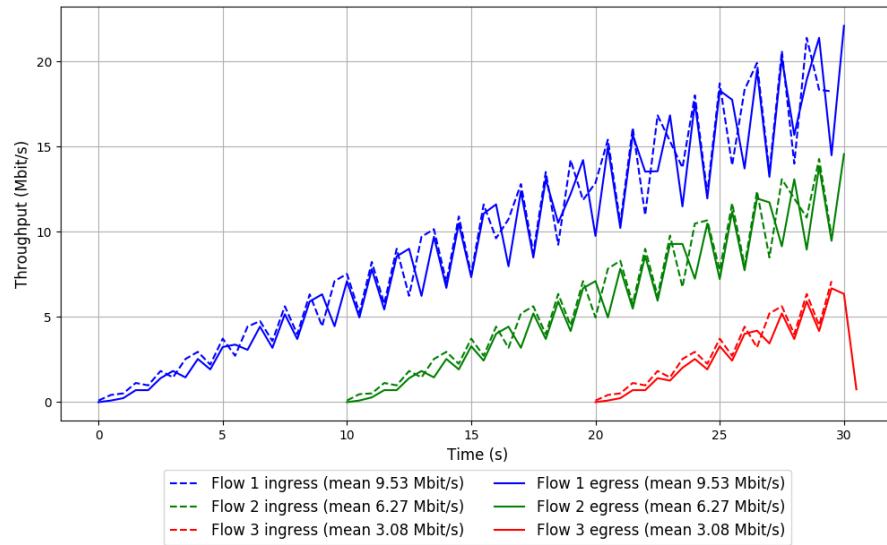


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2019-01-03 00:04:34
End at: 2019-01-03 00:05:04
Local clock offset: 1.528 ms
Remote clock offset: -42.104 ms

# Below is generated by plot.py at 2019-01-03 02:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.69 Mbit/s
95th percentile per-packet one-way delay: 58.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 58.350 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 58.239 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 58.540 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

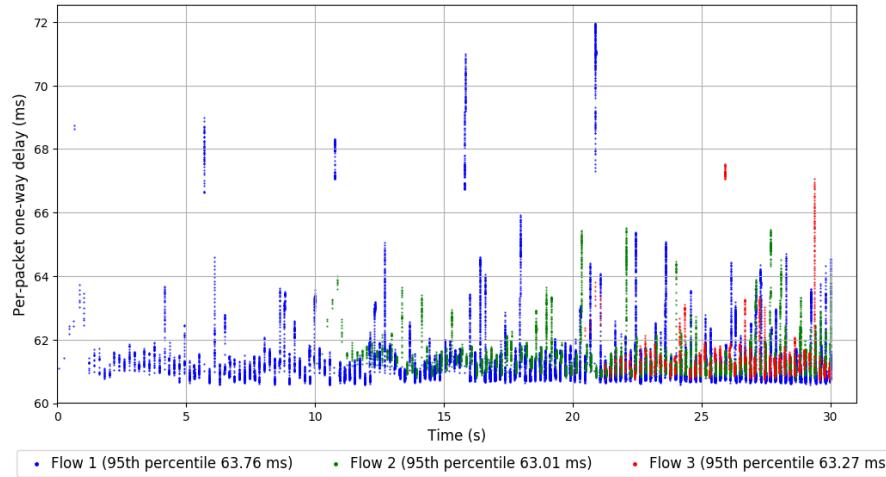
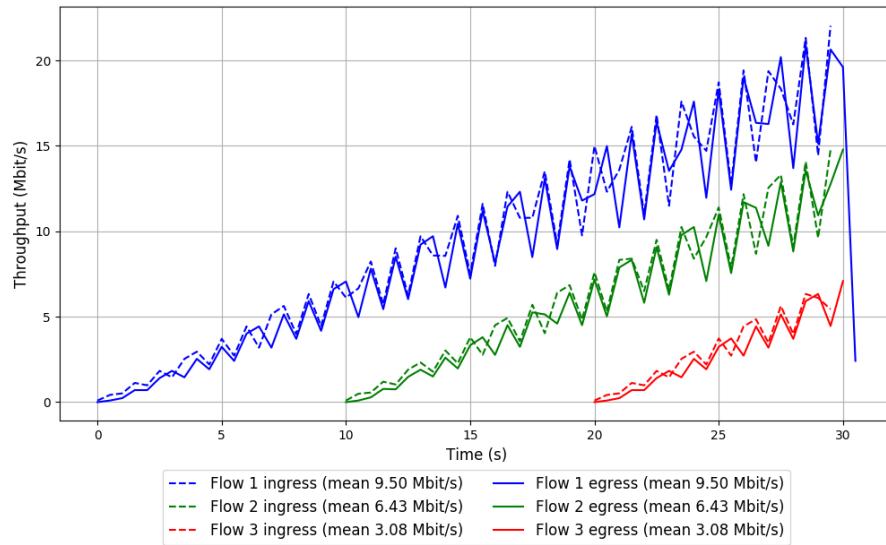


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-03 00:31:50
End at: 2019-01-03 00:32:20
Local clock offset: -0.752 ms
Remote clock offset: -39.755 ms

# Below is generated by plot.py at 2019-01-03 02:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 63.460 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.50 Mbit/s
95th percentile per-packet one-way delay: 63.758 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 63.013 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 63.272 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

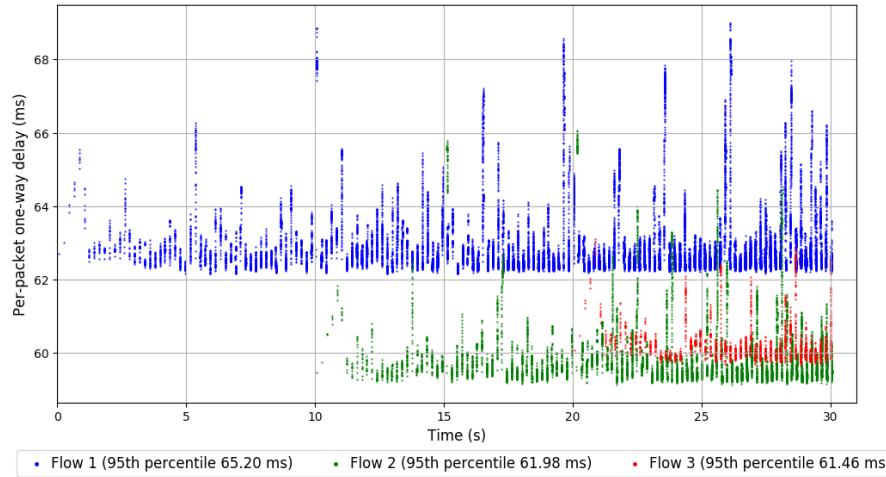
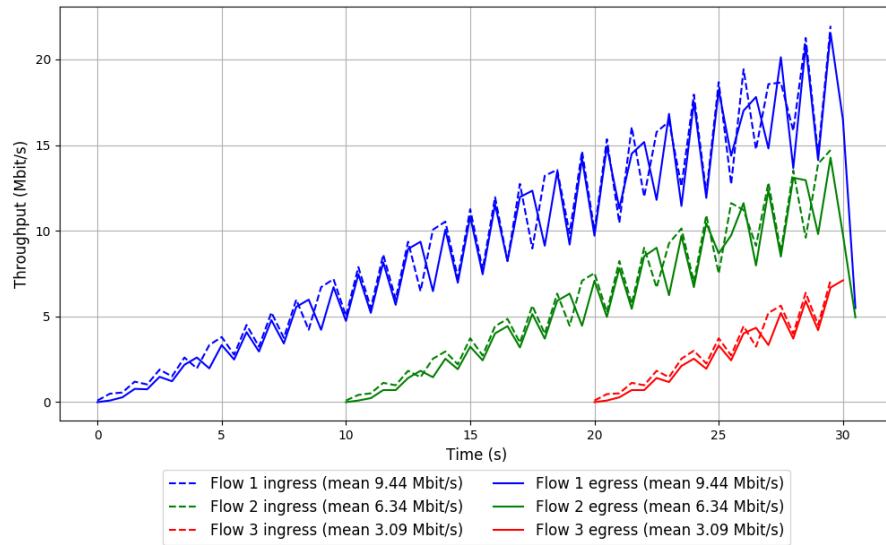


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-03 01:04:52
End at: 2019-01-03 01:05:22
Local clock offset: 2.589 ms
Remote clock offset: -37.643 ms

# Below is generated by plot.py at 2019-01-03 02:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 64.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 65.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 61.978 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 61.457 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

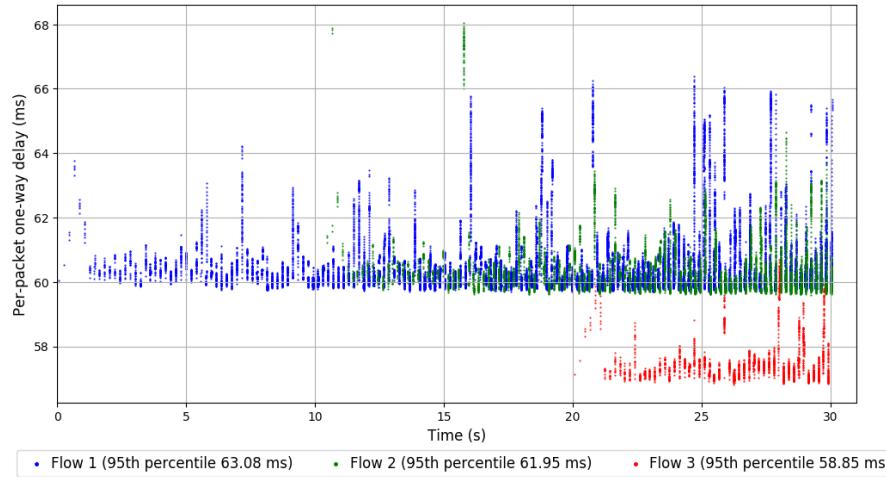
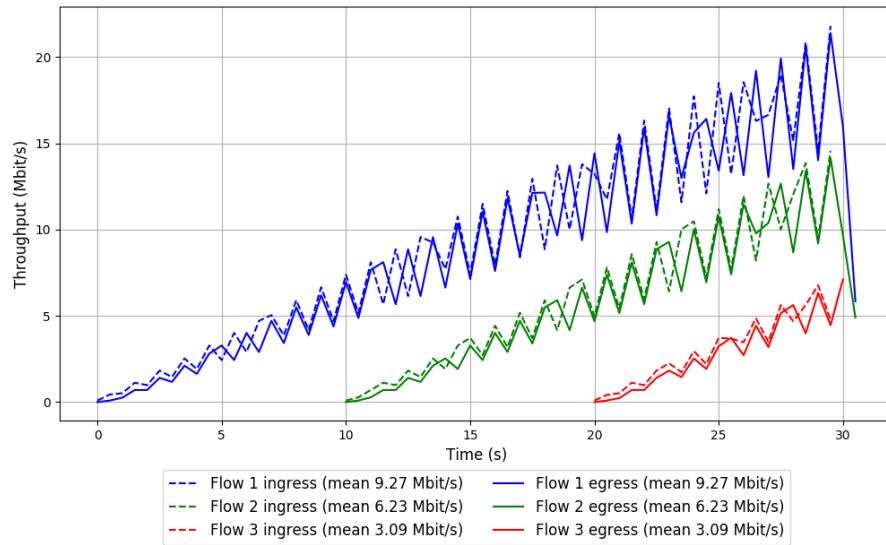


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-03 01:37:46
End at: 2019-01-03 01:38:16
Local clock offset: 1.321 ms
Remote clock offset: -41.3 ms

# Below is generated by plot.py at 2019-01-03 02:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.43 Mbit/s
95th percentile per-packet one-way delay: 62.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 63.076 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 61.953 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 58.855 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

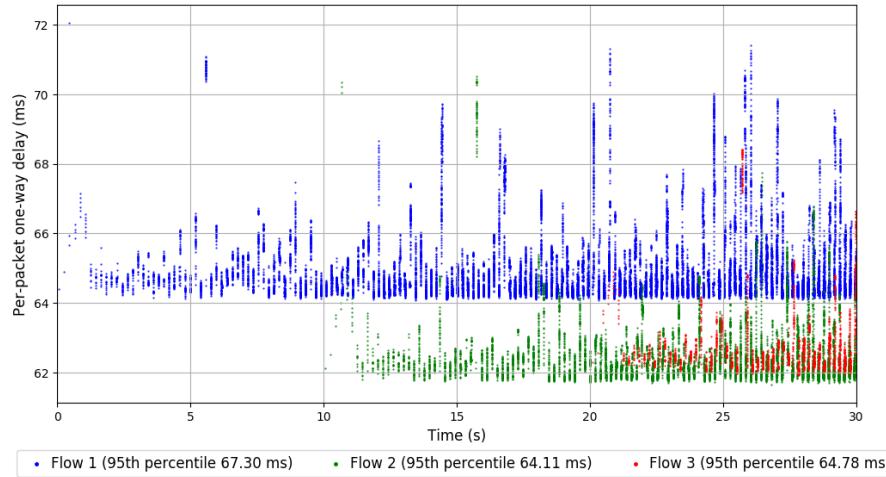
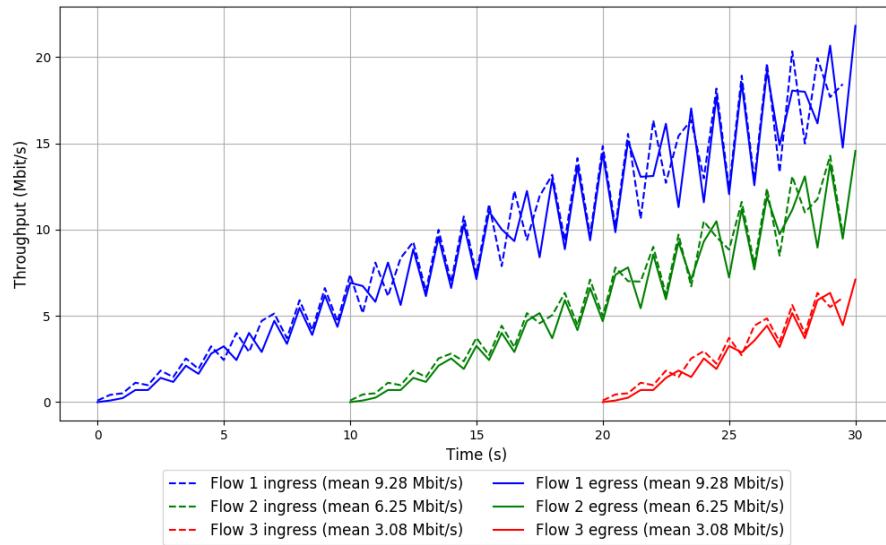


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-03 02:05:19
End at: 2019-01-03 02:05:49
Local clock offset: -2.319 ms
Remote clock offset: -40.866 ms

# Below is generated by plot.py at 2019-01-03 02:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 66.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 67.304 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 64.107 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 64.778 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

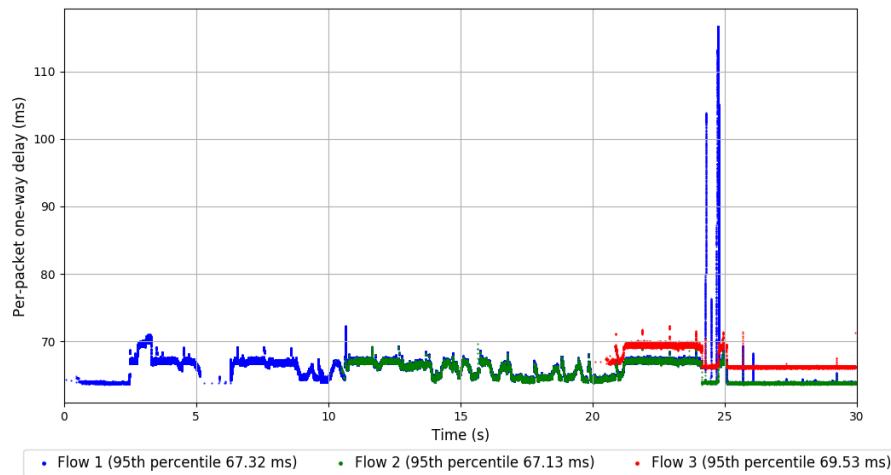
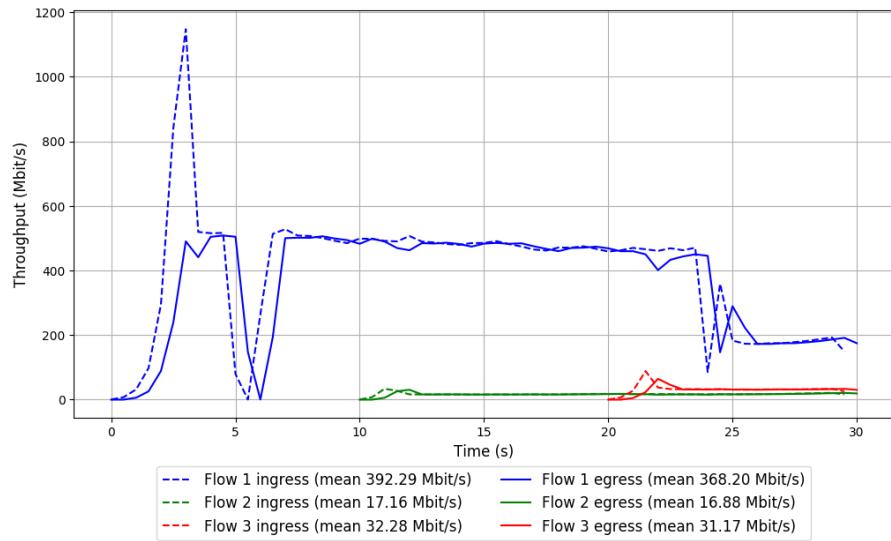


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-03 00:27:12
End at: 2019-01-03 00:27:42
Local clock offset: 2.82 ms
Remote clock offset: -33.371 ms

# Below is generated by plot.py at 2019-01-03 02:52:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.63 Mbit/s
95th percentile per-packet one-way delay: 67.433 ms
Loss rate: 5.95%
-- Flow 1:
Average throughput: 368.20 Mbit/s
95th percentile per-packet one-way delay: 67.324 ms
Loss rate: 6.14%
-- Flow 2:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 67.131 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 69.526 ms
Loss rate: 3.42%
```

Run 1: Report of PCC-Allegro — Data Link

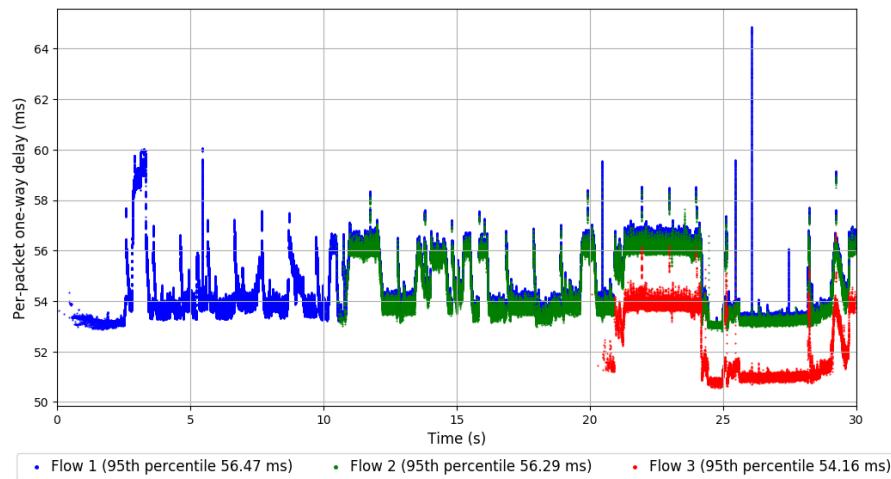
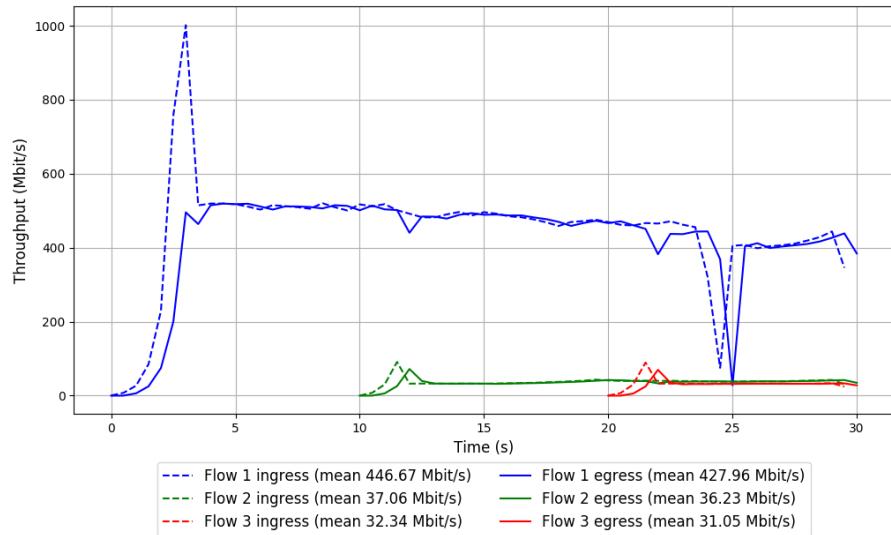


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-03 01:00:12
End at: 2019-01-03 01:00:42
Local clock offset: 3.247 ms
Remote clock offset: -45.867 ms

# Below is generated by plot.py at 2019-01-03 02:53:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 462.29 Mbit/s
95th percentile per-packet one-way delay: 56.457 ms
Loss rate: 4.08%
-- Flow 1:
Average throughput: 427.96 Mbit/s
95th percentile per-packet one-way delay: 56.469 ms
Loss rate: 4.18%
-- Flow 2:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 56.290 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 54.158 ms
Loss rate: 3.98%
```

Run 2: Report of PCC-Allegro — Data Link

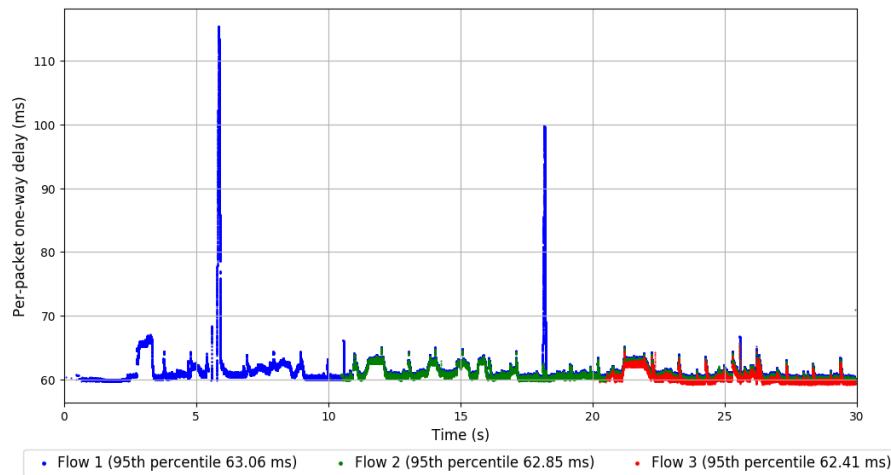
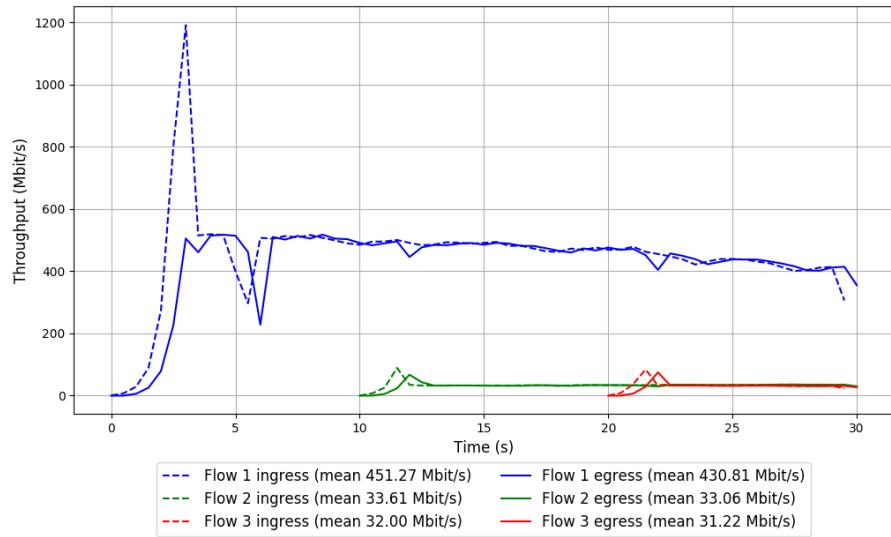


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-03 01:33:05
End at: 2019-01-03 01:33:35
Local clock offset: 2.454 ms
Remote clock offset: -37.89 ms

# Below is generated by plot.py at 2019-01-03 02:53:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 462.92 Mbit/s
95th percentile per-packet one-way delay: 63.047 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 430.81 Mbit/s
95th percentile per-packet one-way delay: 63.065 ms
Loss rate: 4.53%
-- Flow 2:
Average throughput: 33.06 Mbit/s
95th percentile per-packet one-way delay: 62.854 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 62.409 ms
Loss rate: 2.47%
```

Run 3: Report of PCC-Allegro — Data Link

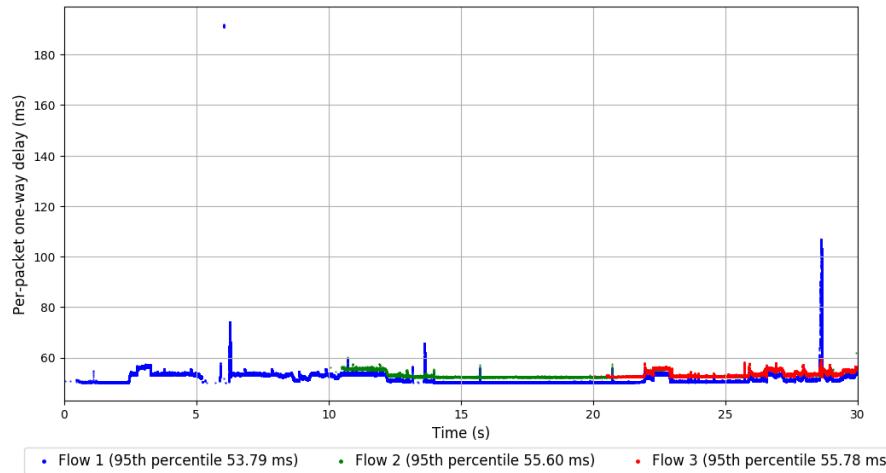
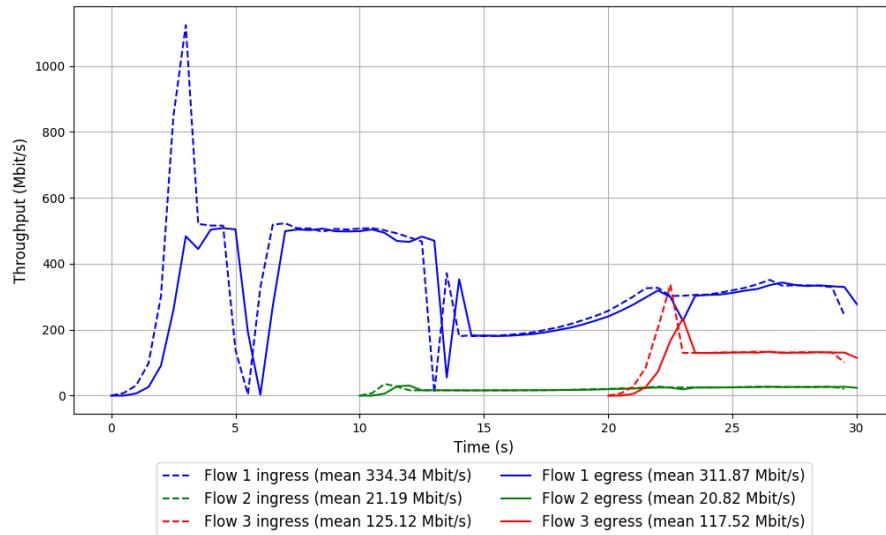


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-03 02:00:40
End at: 2019-01-03 02:01:10
Local clock offset: -0.539 ms
Remote clock offset: -50.809 ms

# Below is generated by plot.py at 2019-01-03 02:53:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 364.41 Mbit/s
95th percentile per-packet one-way delay: 55.425 ms
Loss rate: 6.46%
-- Flow 1:
Average throughput: 311.87 Mbit/s
95th percentile per-packet one-way delay: 53.791 ms
Loss rate: 6.71%
-- Flow 2:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 55.603 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 117.52 Mbit/s
95th percentile per-packet one-way delay: 55.781 ms
Loss rate: 6.07%
```

Run 4: Report of PCC-Allegro — Data Link

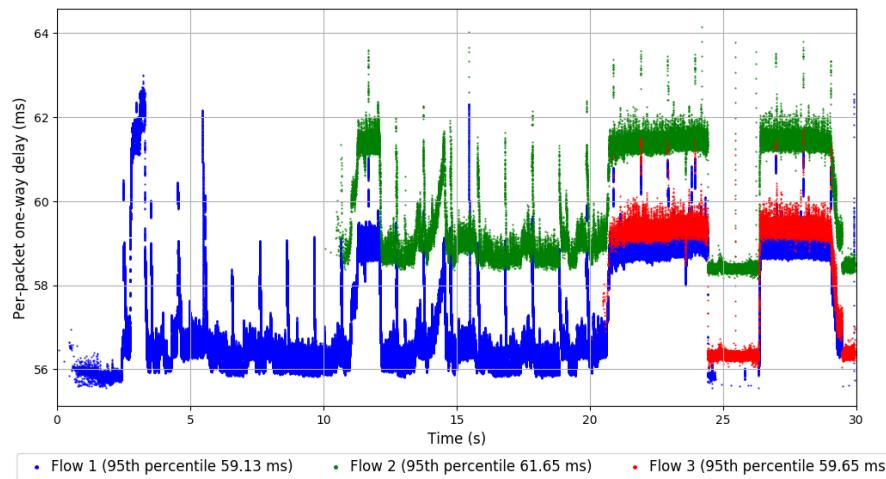
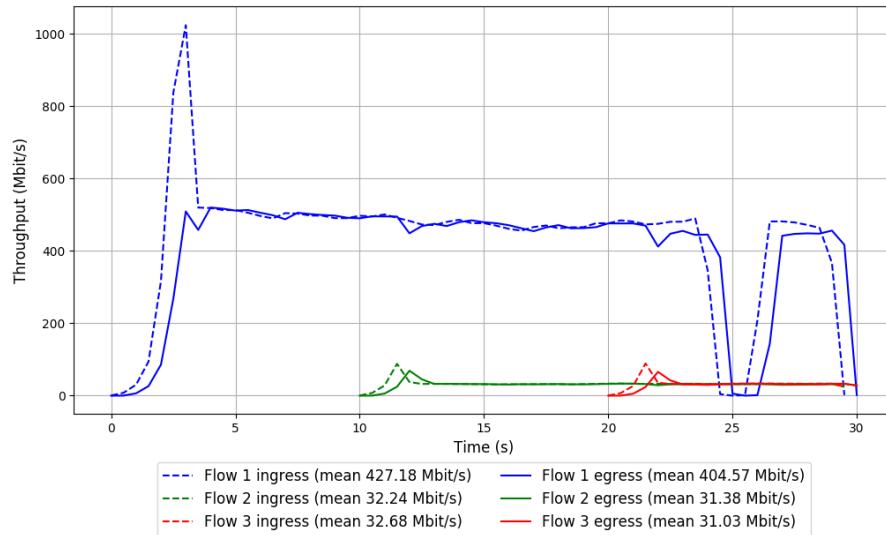


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-03 02:27:54
End at: 2019-01-03 02:28:24
Local clock offset: 3.277 ms
Remote clock offset: -41.169 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 435.61 Mbit/s
95th percentile per-packet one-way delay: 59.510 ms
Loss rate: 5.17%
-- Flow 1:
Average throughput: 404.57 Mbit/s
95th percentile per-packet one-way delay: 59.128 ms
Loss rate: 5.29%
-- Flow 2:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 61.650 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 59.652 ms
Loss rate: 5.07%
```

Run 5: Report of PCC-Allegro — Data Link

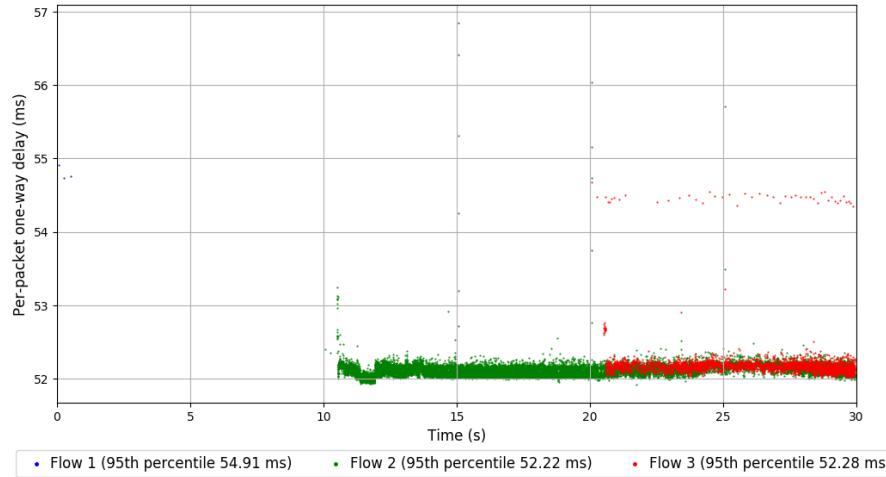
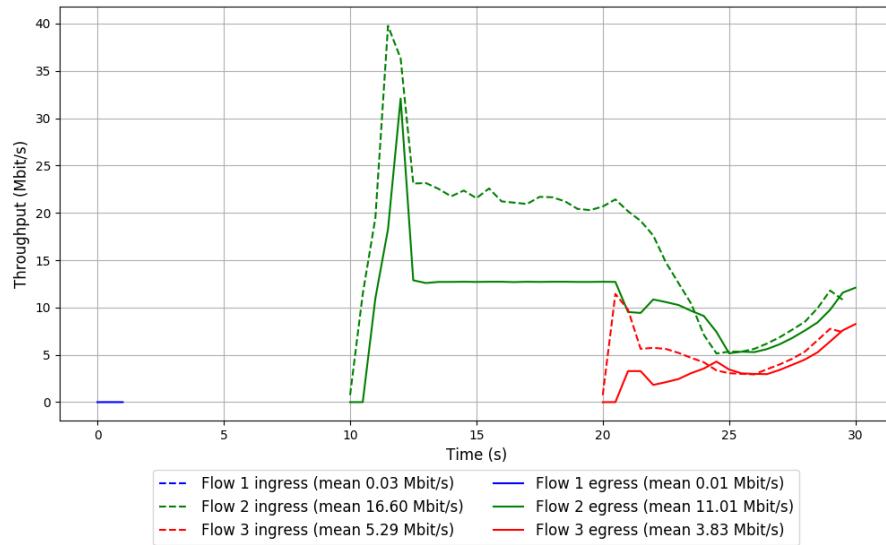


Run 1: Statistics of PCC-Expr

```
Start at: 2019-01-03 00:25:54
End at: 2019-01-03 00:26:24
Local clock offset: 2.228 ms
Remote clock offset: -45.806 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 52.226 ms
Loss rate: 32.84%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 54.913 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 11.01 Mbit/s
95th percentile per-packet one-way delay: 52.216 ms
Loss rate: 33.67%
-- Flow 3:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 52.280 ms
Loss rate: 27.58%
```

Run 1: Report of PCC-Expr — Data Link

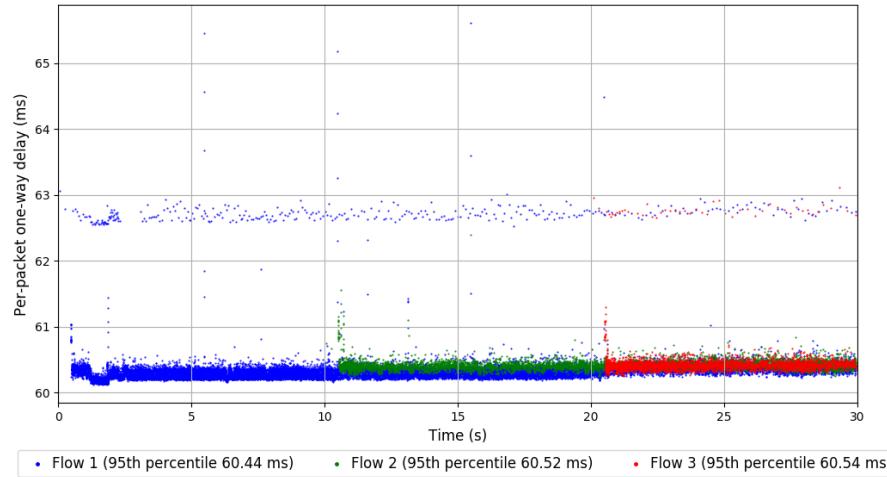
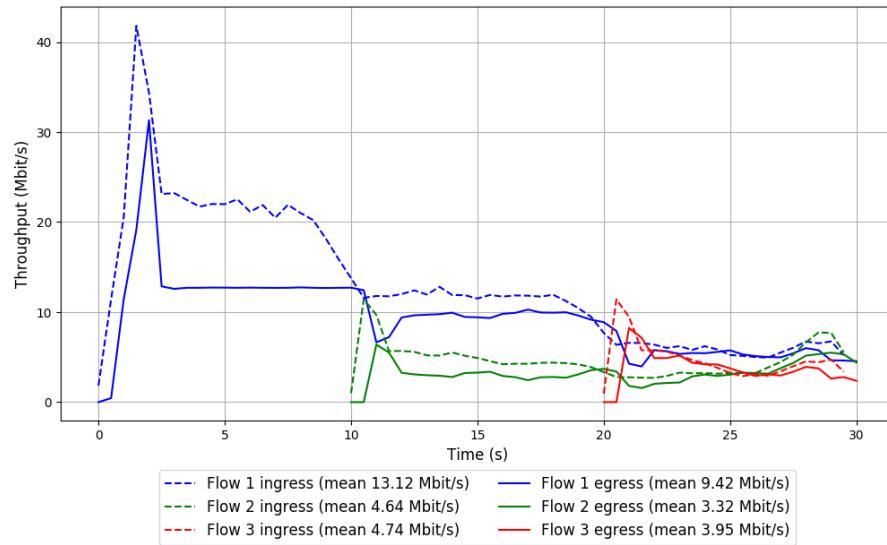


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-03 00:58:53
End at: 2019-01-03 00:59:23
Local clock offset: 1.725 ms
Remote clock offset: -37.811 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 60.488 ms
Loss rate: 27.23%
-- Flow 1:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 60.441 ms
Loss rate: 28.22%
-- Flow 2:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 60.523 ms
Loss rate: 28.40%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 60.544 ms
Loss rate: 16.70%
```

Run 2: Report of PCC-Expr — Data Link

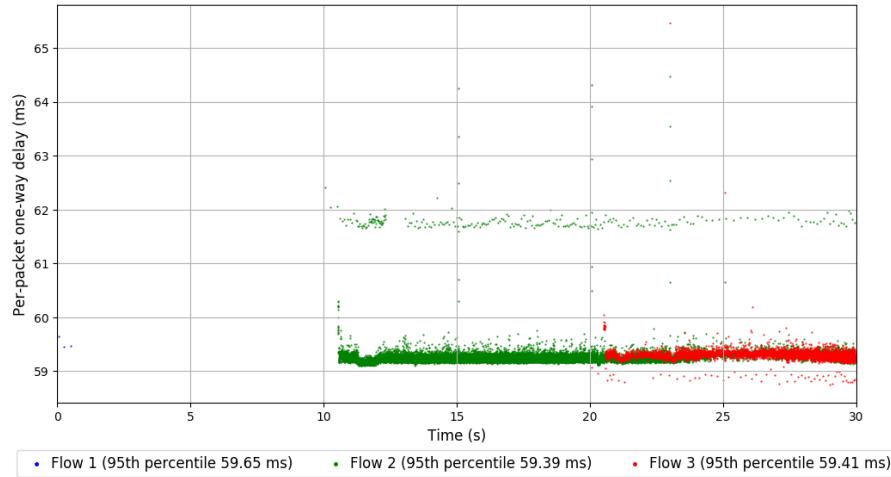
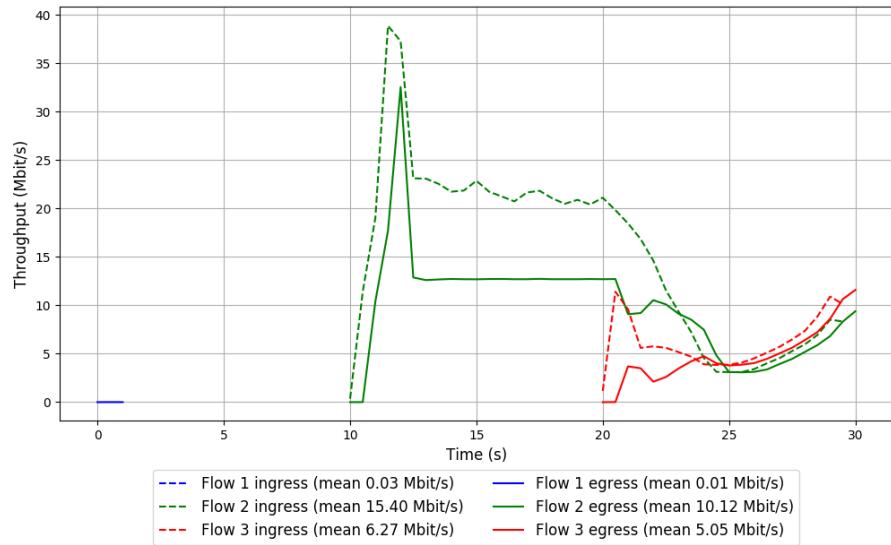


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-03 01:31:46
End at: 2019-01-03 01:32:16
Local clock offset: -0.045 ms
Remote clock offset: -40.947 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 59.400 ms
Loss rate: 31.79%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 59.649 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 10.12 Mbit/s
95th percentile per-packet one-way delay: 59.392 ms
Loss rate: 34.28%
-- Flow 3:
Average throughput: 5.05 Mbit/s
95th percentile per-packet one-way delay: 59.415 ms
Loss rate: 19.49%
```

Run 3: Report of PCC-Expr — Data Link

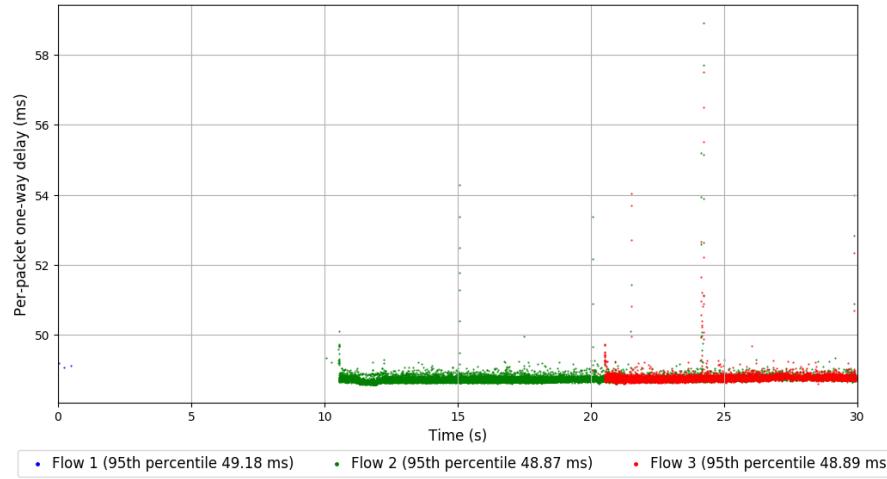
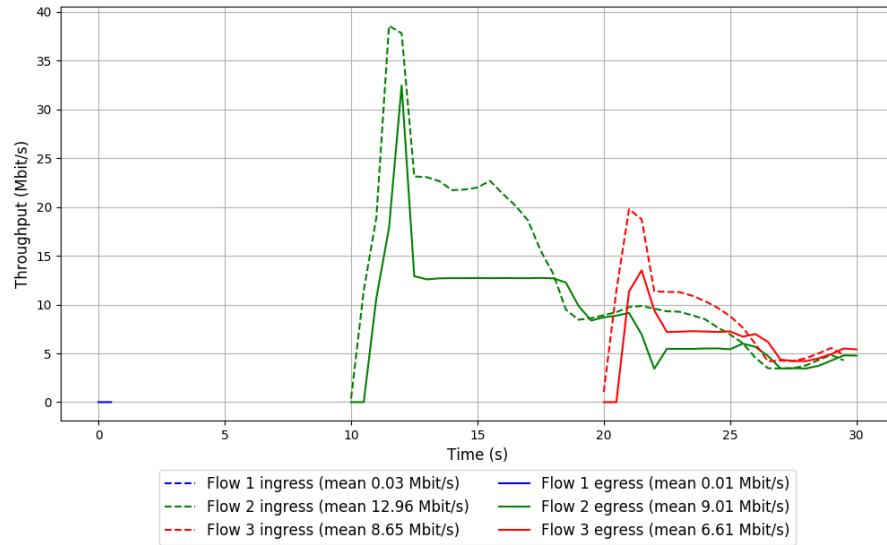


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-03 01:59:21
End at: 2019-01-03 01:59:51
Local clock offset: 2.896 ms
Remote clock offset: -48.717 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 48.879 ms
Loss rate: 28.80%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 49.179 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 9.01 Mbit/s
95th percentile per-packet one-way delay: 48.872 ms
Loss rate: 30.52%
-- Flow 3:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 48.893 ms
Loss rate: 23.57%
```

Run 4: Report of PCC-Expr — Data Link

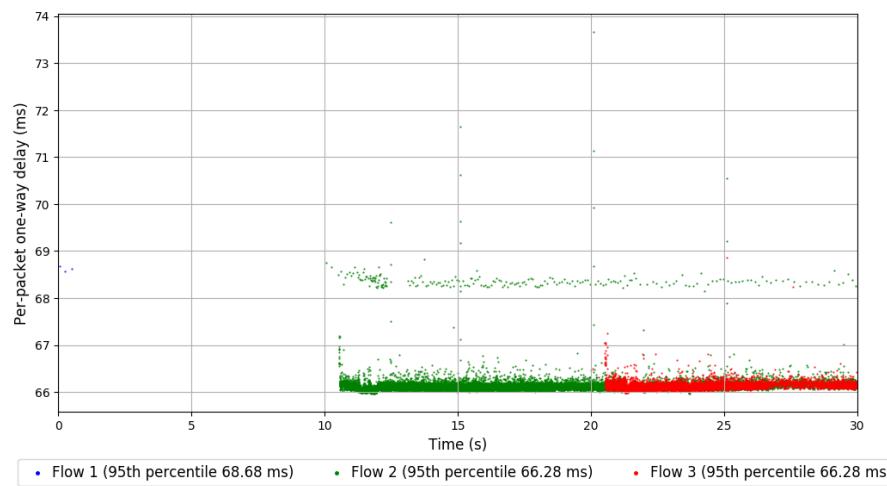
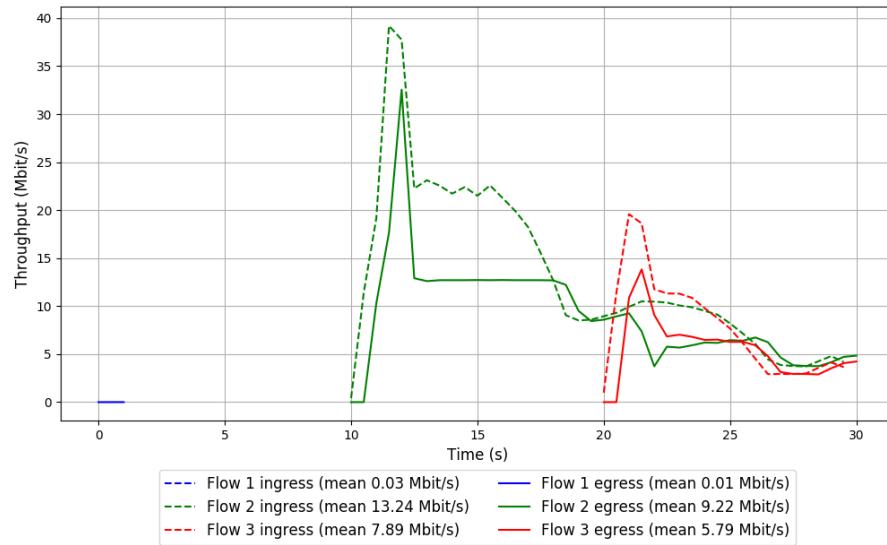


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-03 02:26:36
End at: 2019-01-03 02:27:06
Local clock offset: 0.943 ms
Remote clock offset: -33.525 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 66.284 ms
Loss rate: 29.52%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 68.679 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 66.284 ms
Loss rate: 30.39%
-- Flow 3:
Average throughput: 5.79 Mbit/s
95th percentile per-packet one-way delay: 66.282 ms
Loss rate: 26.58%
```

Run 5: Report of PCC-Expr — Data Link

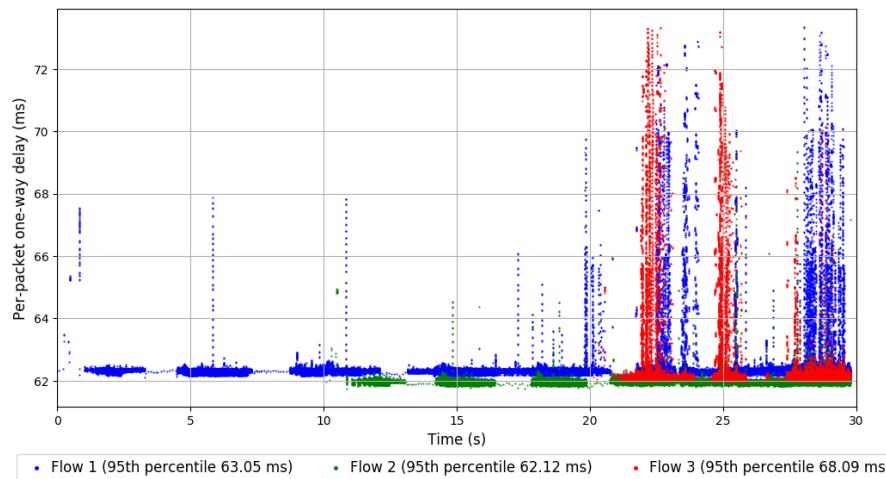
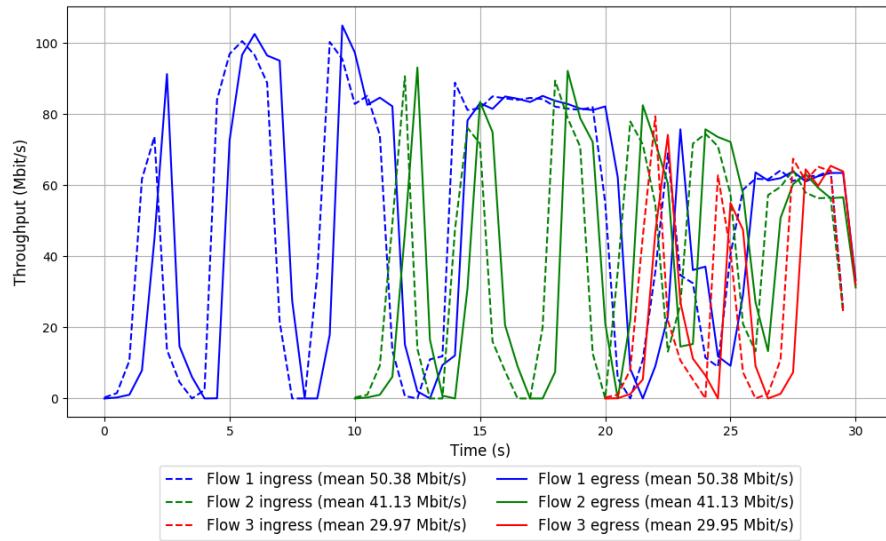


```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-03 00:09:03
End at: 2019-01-03 00:09:33
Local clock offset: 3.928 ms
Remote clock offset: -34.42 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 63.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.38 Mbit/s
95th percentile per-packet one-way delay: 63.046 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.13 Mbit/s
95th percentile per-packet one-way delay: 62.120 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 68.090 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link

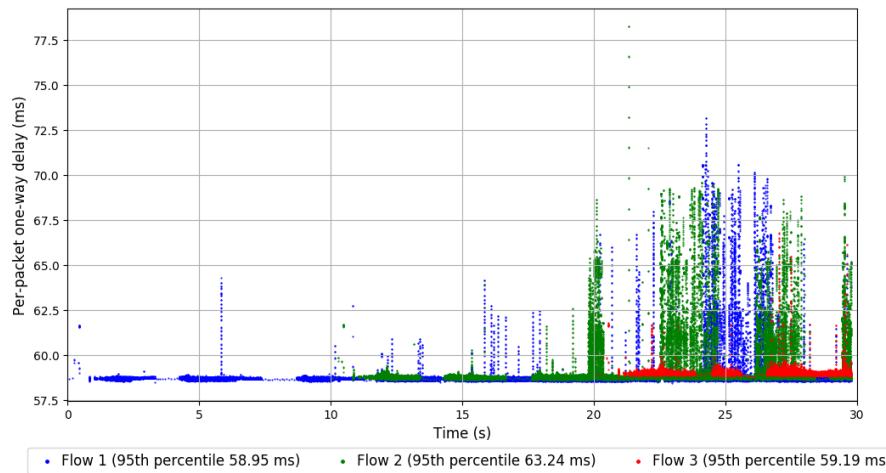
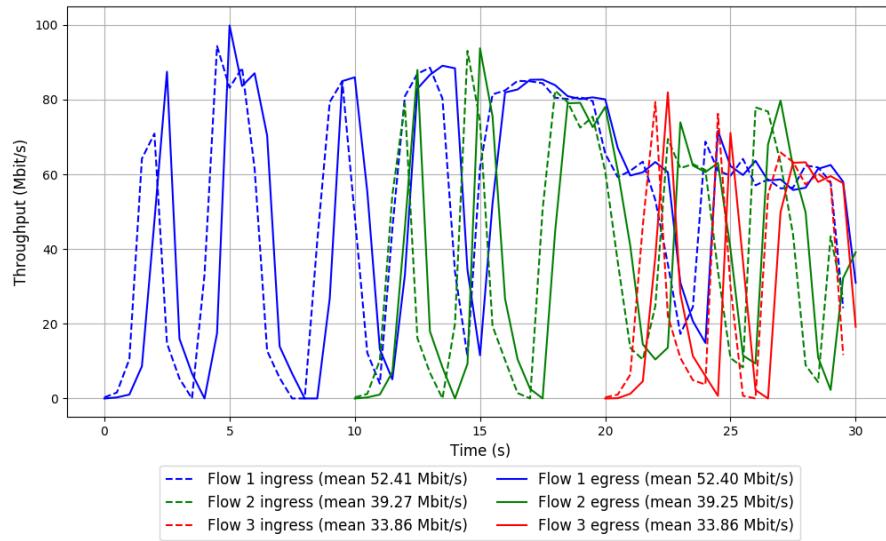


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-03 00:36:22
End at: 2019-01-03 00:36:52
Local clock offset: -1.522 ms
Remote clock offset: -42.607 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 60.972 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 52.40 Mbit/s
95th percentile per-packet one-way delay: 58.951 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.25 Mbit/s
95th percentile per-packet one-way delay: 63.239 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 33.86 Mbit/s
95th percentile per-packet one-way delay: 59.192 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

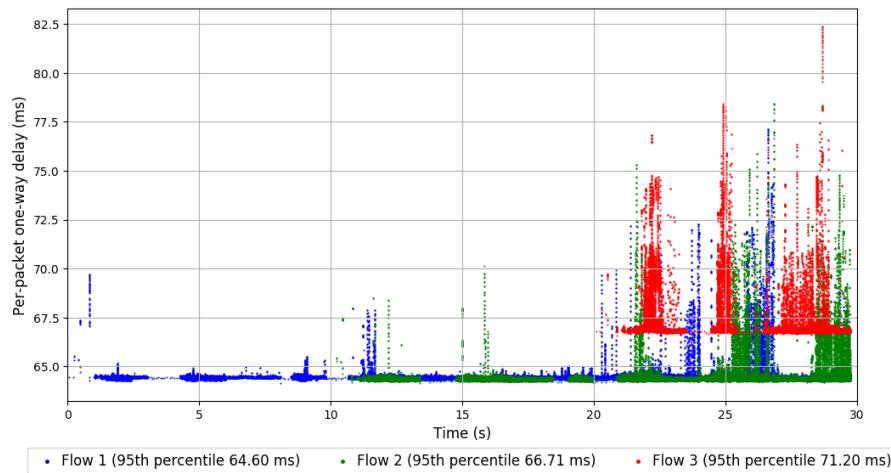
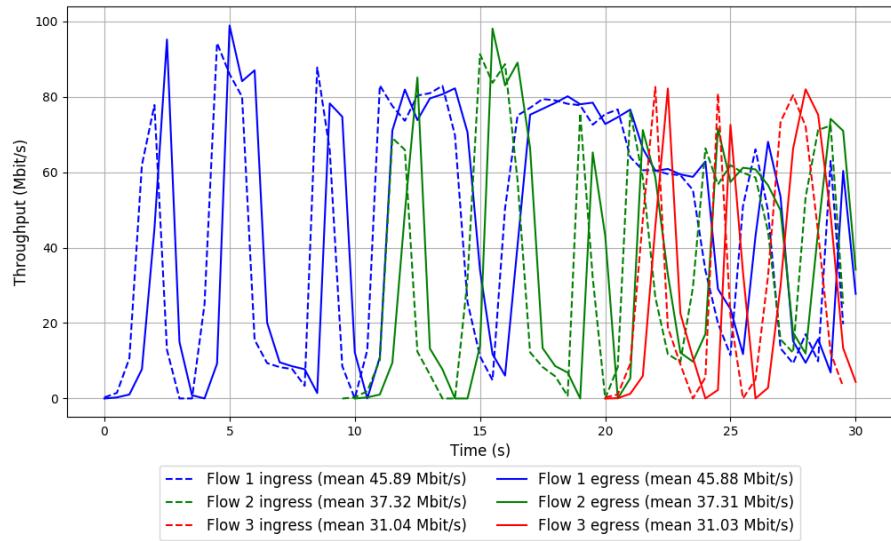


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-03 01:09:21
End at: 2019-01-03 01:09:51
Local clock offset: 2.239 ms
Remote clock offset: -33.246 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.76 Mbit/s
95th percentile per-packet one-way delay: 67.619 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 45.88 Mbit/s
95th percentile per-packet one-way delay: 64.600 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 66.713 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 71.204 ms
Loss rate: 0.02%
```

Run 3: Report of QUIC Cubic — Data Link

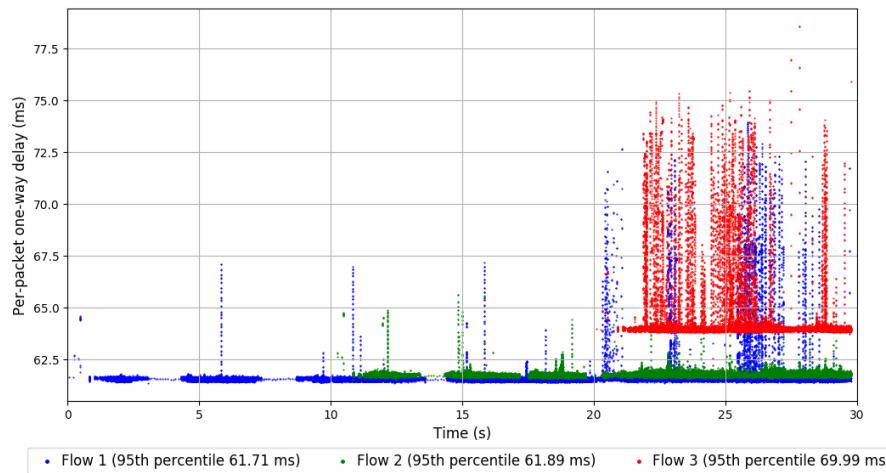
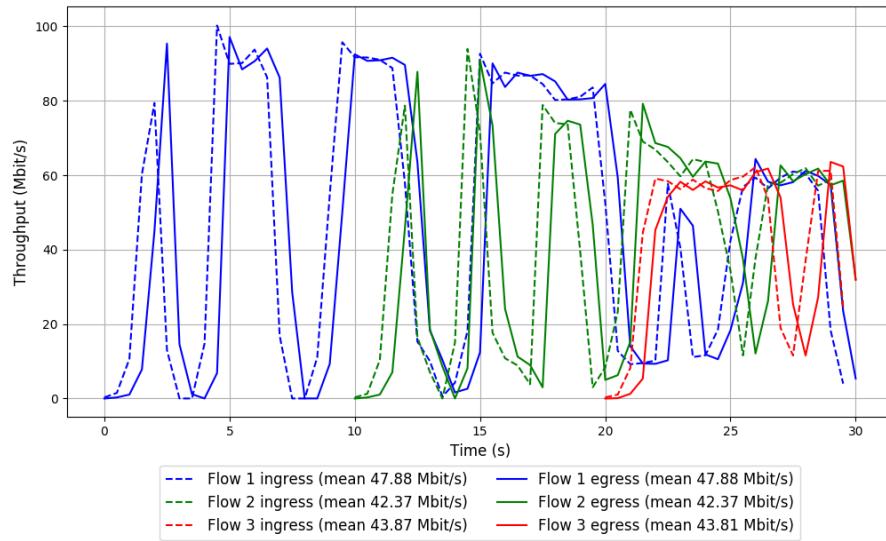


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-03 01:42:14
End at: 2019-01-03 01:42:44
Local clock offset: -0.635 ms
Remote clock offset: -38.883 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 64.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.88 Mbit/s
95th percentile per-packet one-way delay: 61.708 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.37 Mbit/s
95th percentile per-packet one-way delay: 61.890 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 69.991 ms
Loss rate: 0.03%
```

Run 4: Report of QUIC Cubic — Data Link

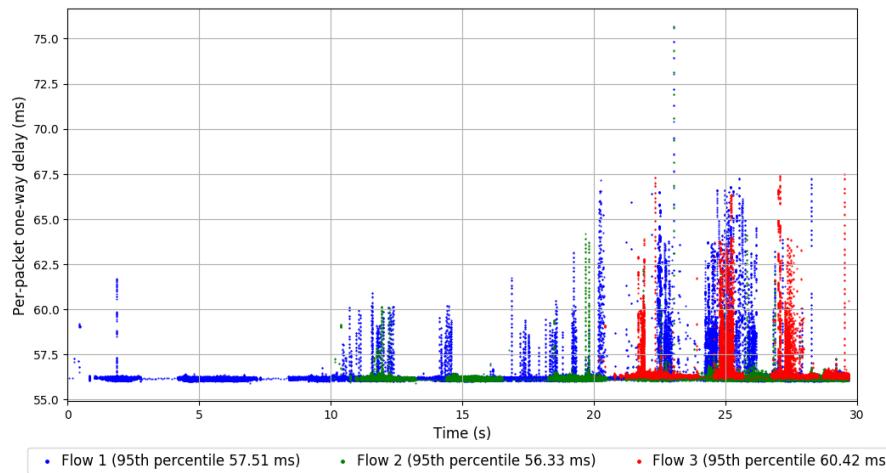
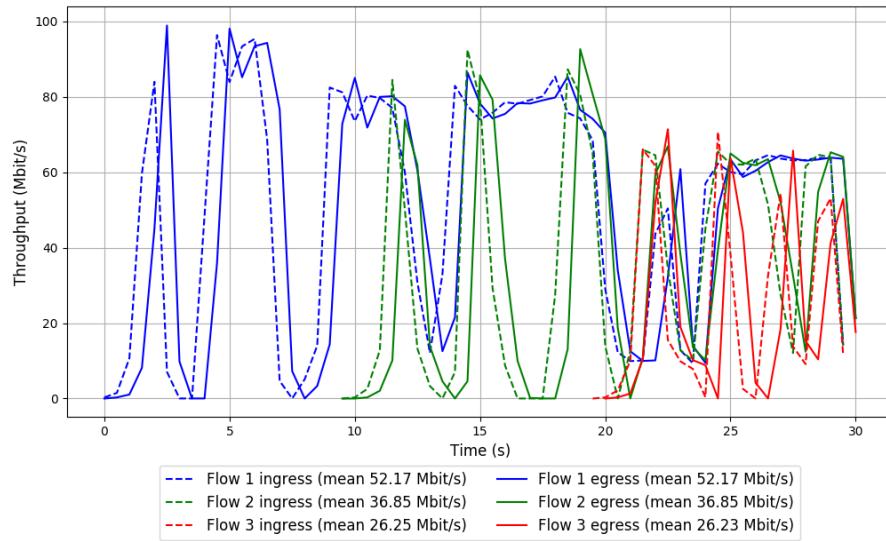


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-03 02:09:49
End at: 2019-01-03 02:10:19
Local clock offset: 0.627 ms
Remote clock offset: -43.758 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 57.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.17 Mbit/s
95th percentile per-packet one-way delay: 57.506 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 56.334 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.23 Mbit/s
95th percentile per-packet one-way delay: 60.423 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

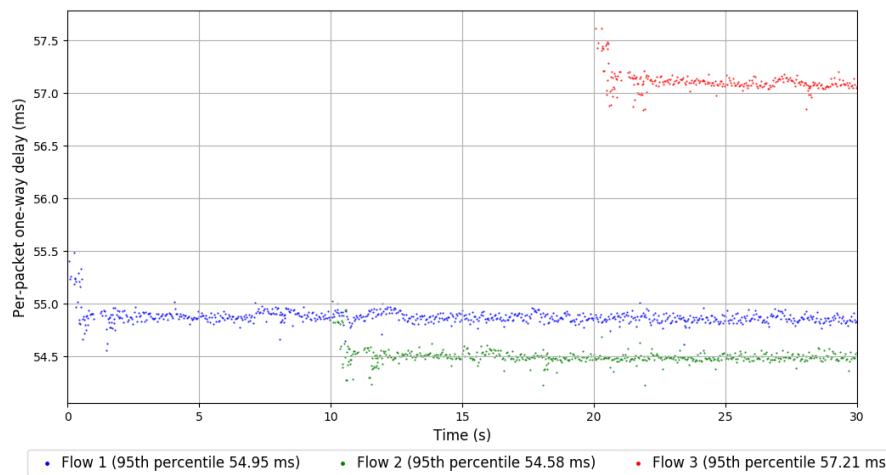
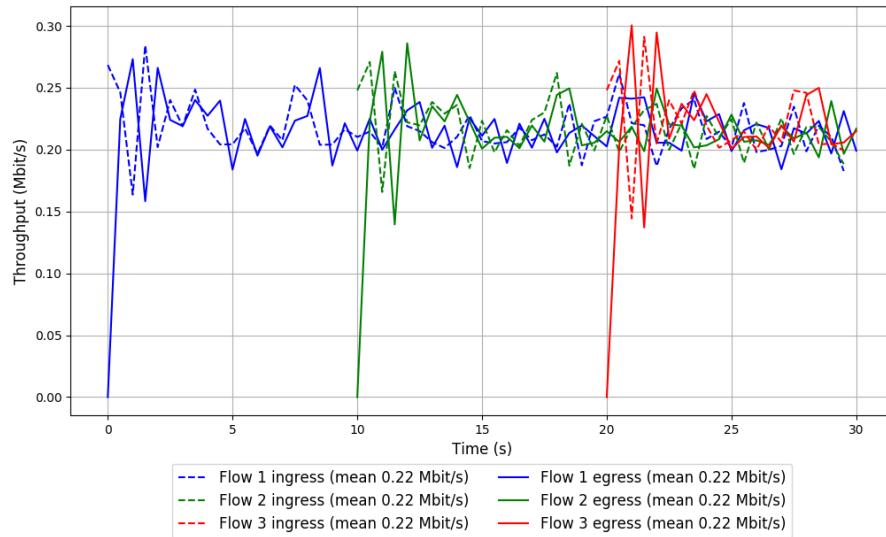


```
Run 1: Statistics of SCReAM
```

```
Start at: 2019-01-03 00:15:59
End at: 2019-01-03 00:16:29
Local clock offset: 1.873 ms
Remote clock offset: -43.819 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 57.125 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.951 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.581 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.212 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

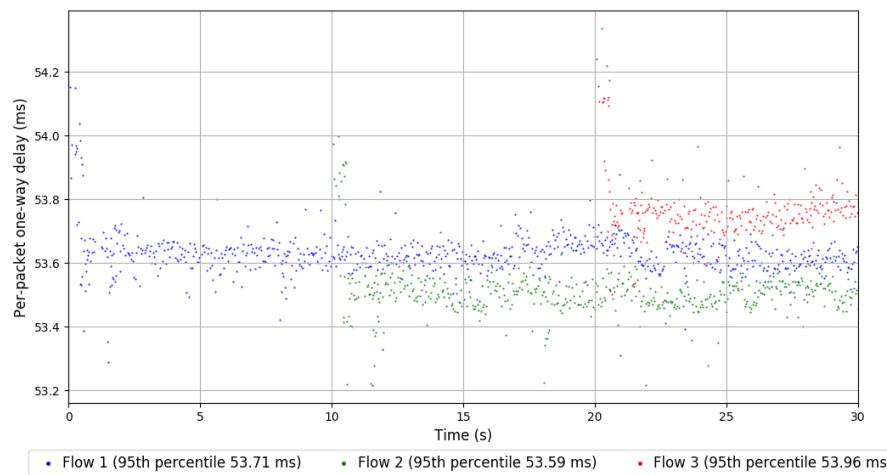
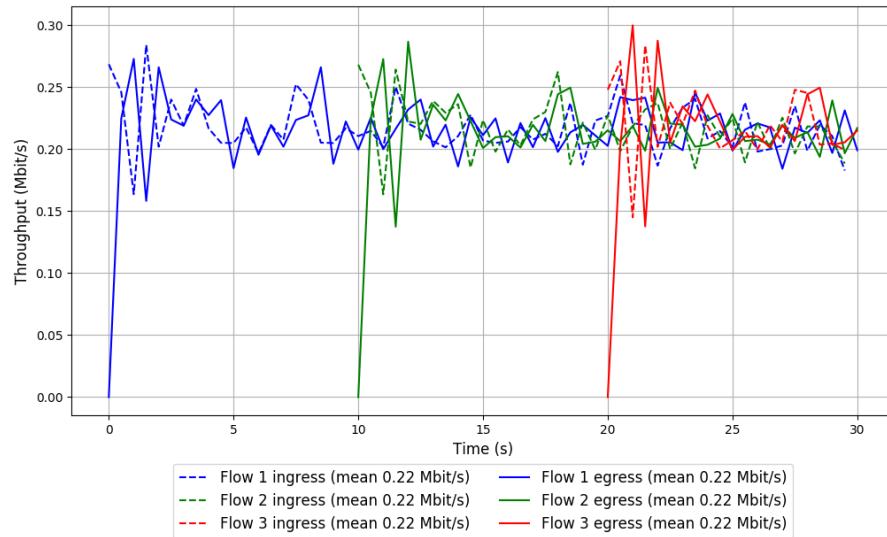


Run 2: Statistics of SCReAM

```
Start at: 2019-01-03 00:48:57
End at: 2019-01-03 00:49:27
Local clock offset: -0.723 ms
Remote clock offset: -46.907 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 53.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.712 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.590 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.963 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

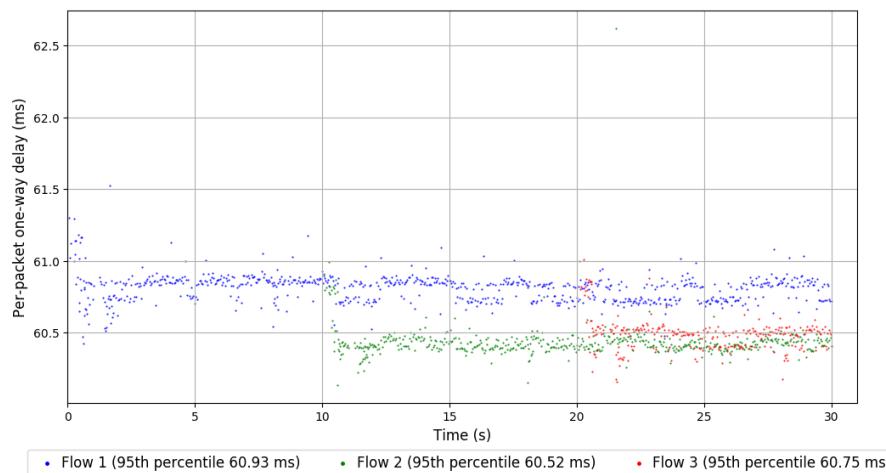
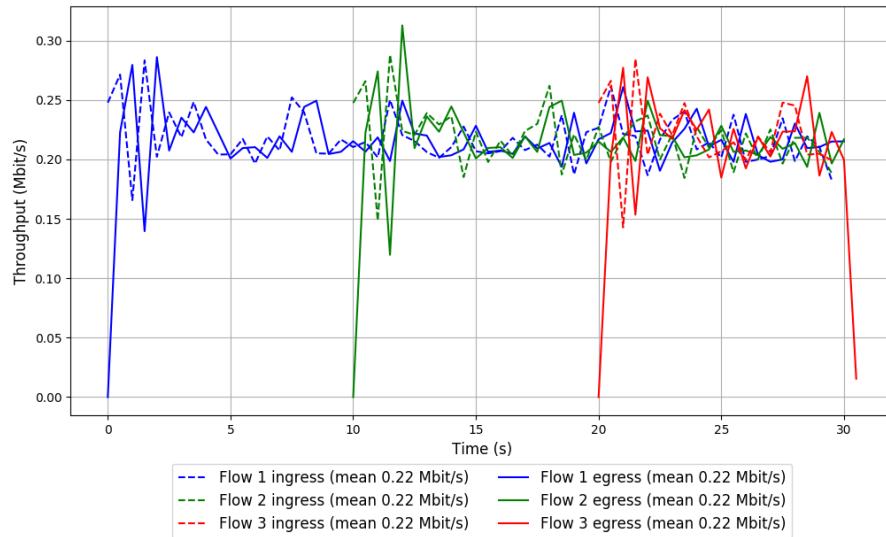


Run 3: Statistics of SCReAM

```
Start at: 2019-01-03 01:16:15
End at: 2019-01-03 01:16:45
Local clock offset: 0.656 ms
Remote clock offset: -38.944 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 60.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.926 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.523 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.749 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

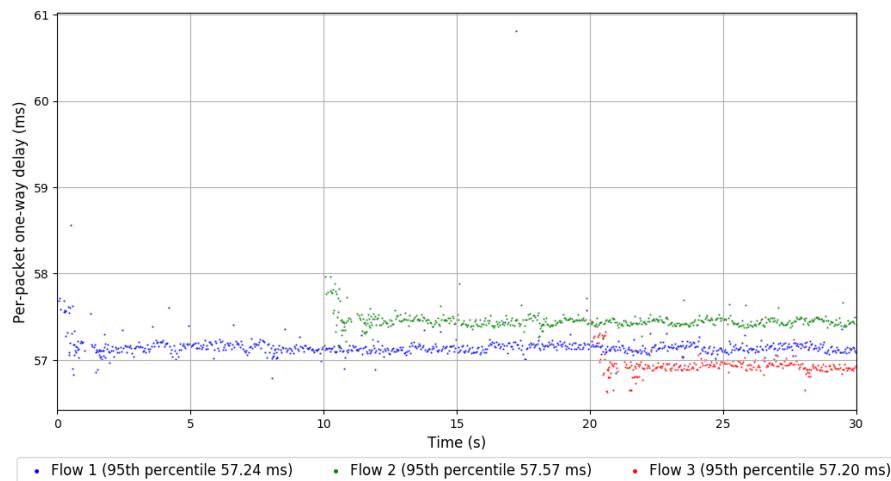
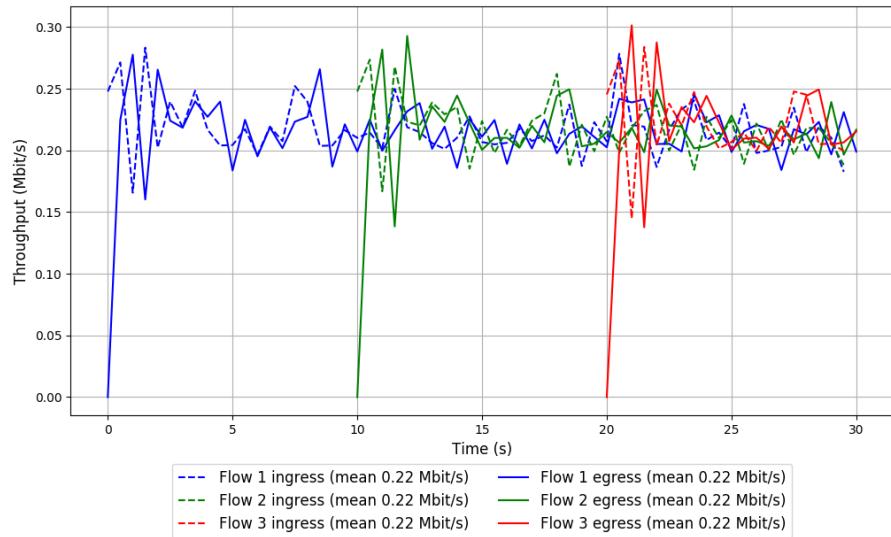


Run 4: Statistics of SCReAM

```
Start at: 2019-01-03 01:49:29
End at: 2019-01-03 01:49:59
Local clock offset: 0.302 ms
Remote clock offset: -42.722 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 57.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.241 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.574 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.196 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

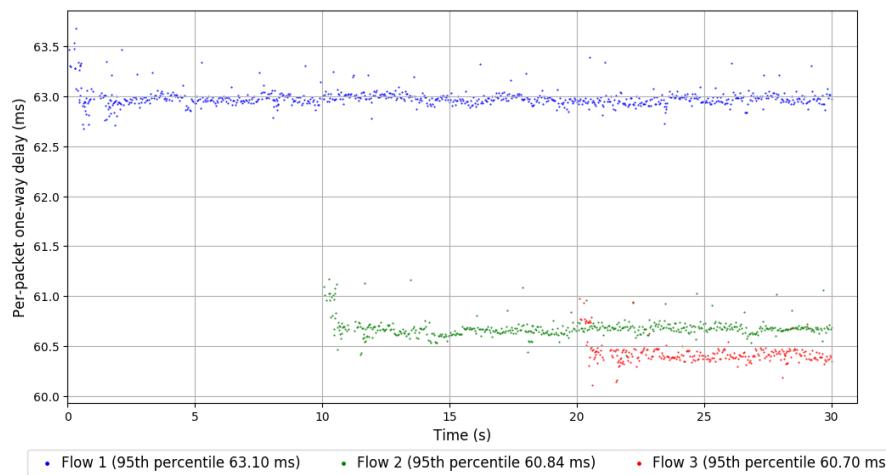
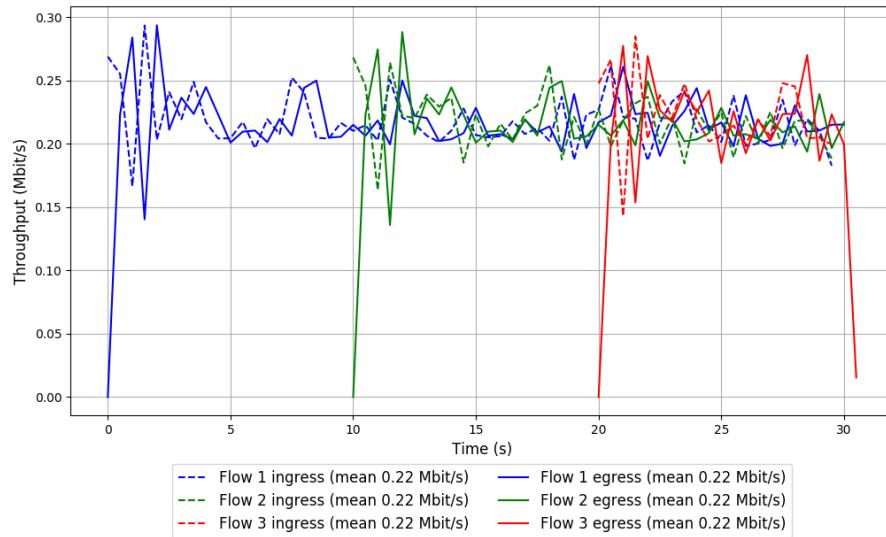


Run 5: Statistics of SCReAM

```
Start at: 2019-01-03 02:16:46
End at: 2019-01-03 02:17:16
Local clock offset: 0.449 ms
Remote clock offset: -39.904 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.840 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.696 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

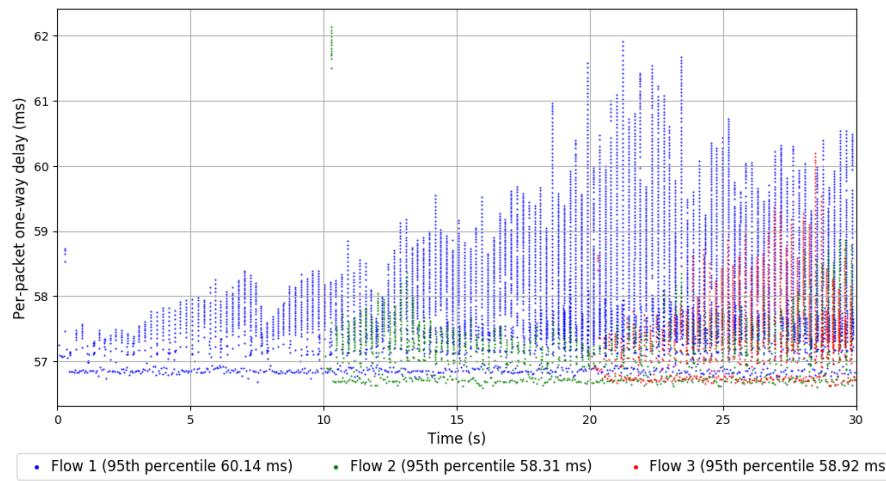
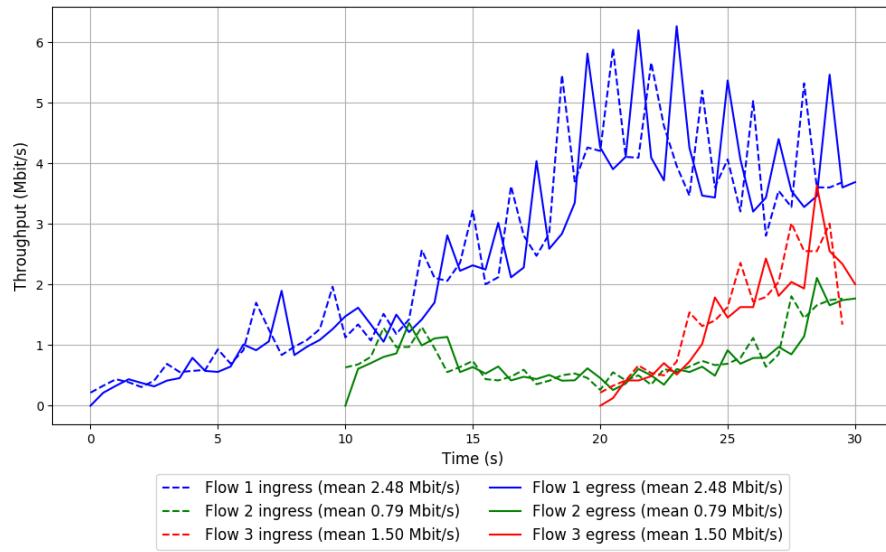


Run 1: Statistics of Sprout

```
Start at: 2019-01-03 00:10:26
End at: 2019-01-03 00:10:56
Local clock offset: 0.202 ms
Remote clock offset: -43.185 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 59.912 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 60.136 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 58.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 58.920 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

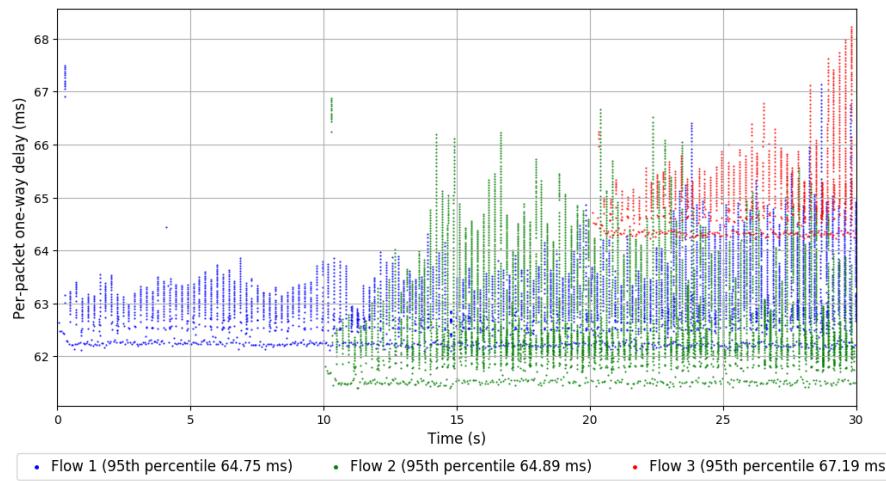
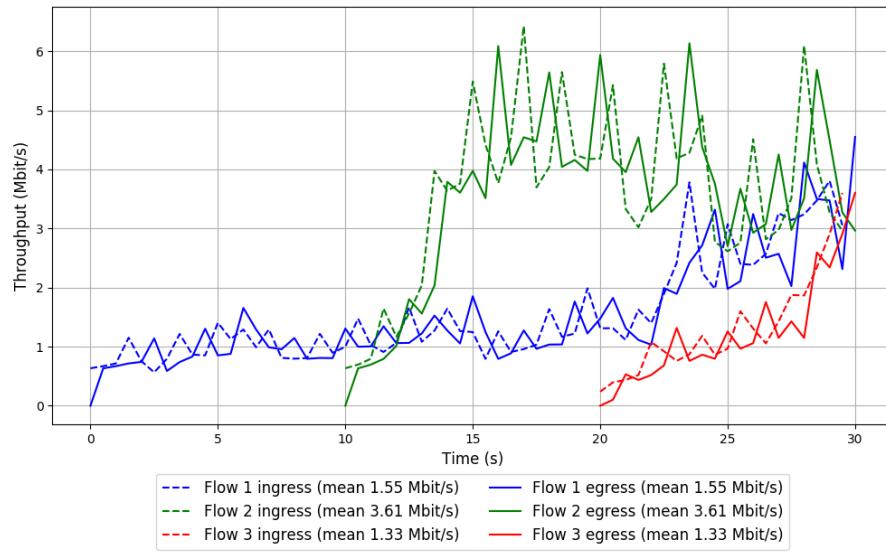


Run 2: Statistics of Sprout

```
Start at: 2019-01-03 00:37:45
End at: 2019-01-03 00:38:15
Local clock offset: 2.49 ms
Remote clock offset: -35.095 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 65.456 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 64.745 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 64.886 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 67.188 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

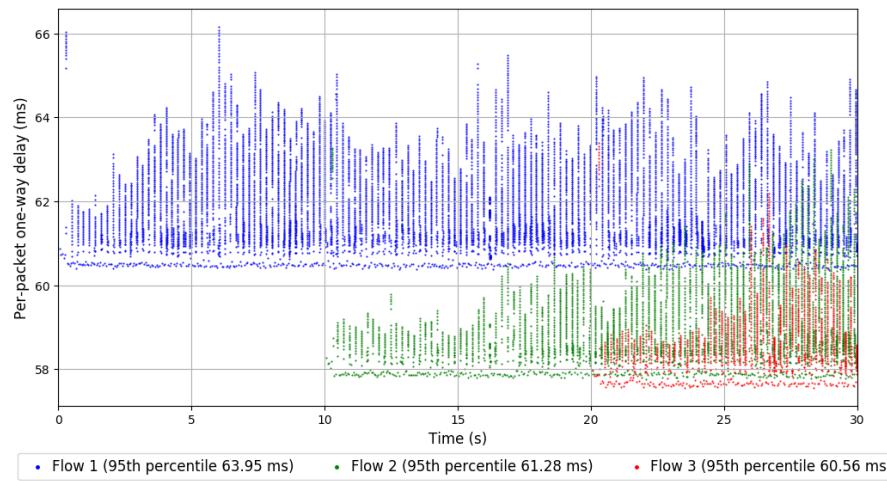
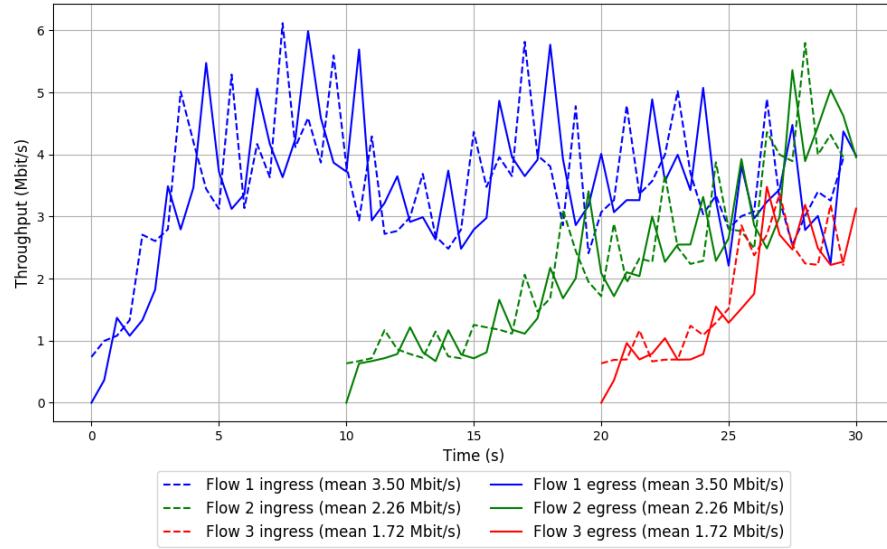


Run 3: Statistics of Sprout

```
Start at: 2019-01-03 01:10:43
End at: 2019-01-03 01:11:13
Local clock offset: 2.809 ms
Remote clock offset: -38.998 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.57 Mbit/s
95th percentile per-packet one-way delay: 63.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 63.954 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 61.278 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 60.563 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

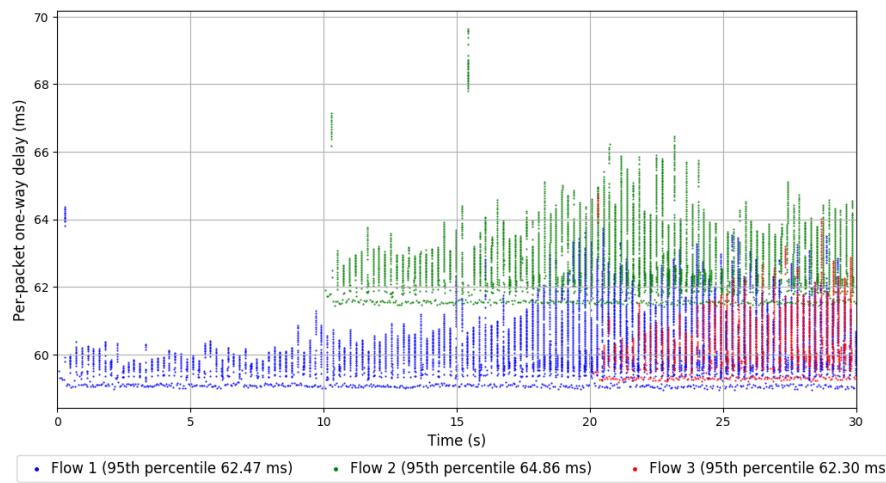
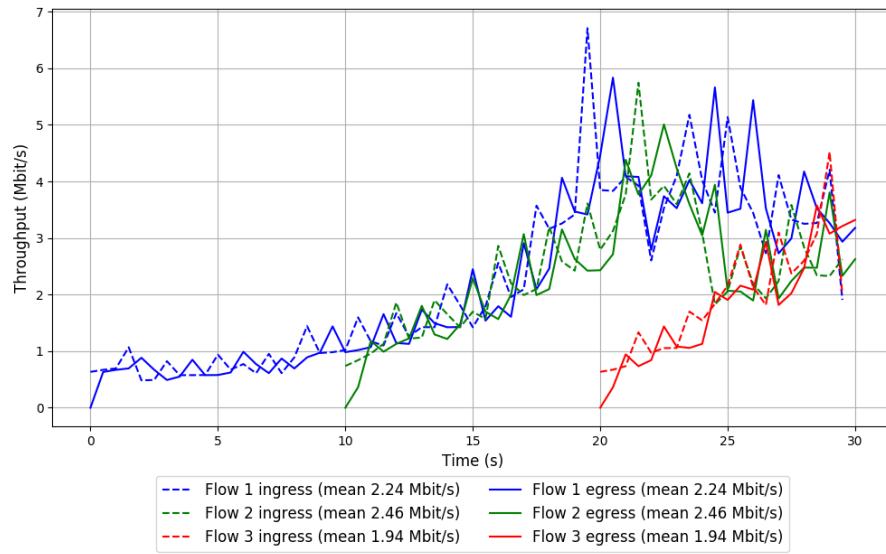


Run 4: Statistics of Sprout

```
Start at: 2019-01-03 01:43:57
End at: 2019-01-03 01:44:27
Local clock offset: 2.189 ms
Remote clock offset: -38.439 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 64.068 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 62.474 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 64.863 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 62.299 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

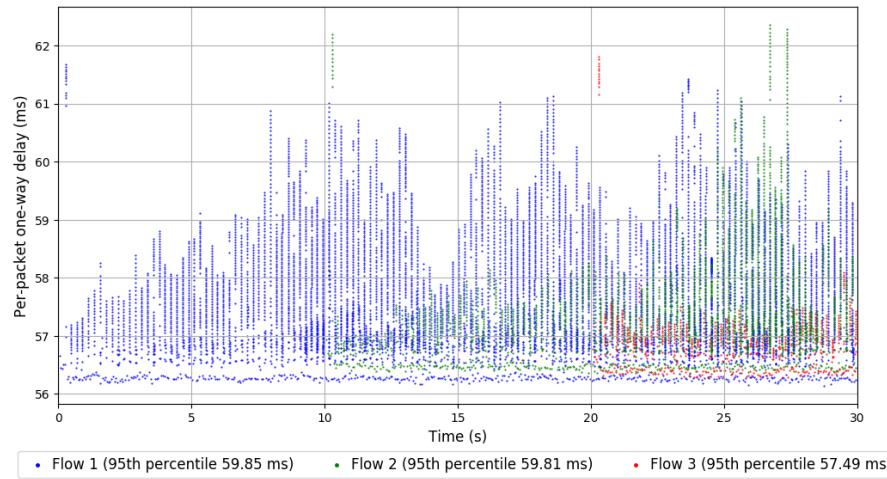
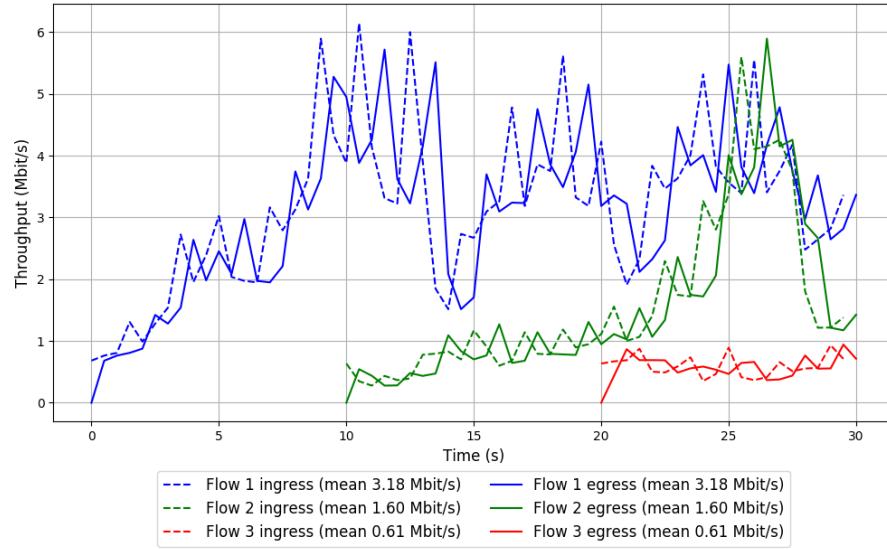


Run 5: Statistics of Sprout

```
Start at: 2019-01-03 02:11:13
End at: 2019-01-03 02:11:43
Local clock offset: 1.975 ms
Remote clock offset: -42.099 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 59.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 59.848 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 59.806 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 57.488 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

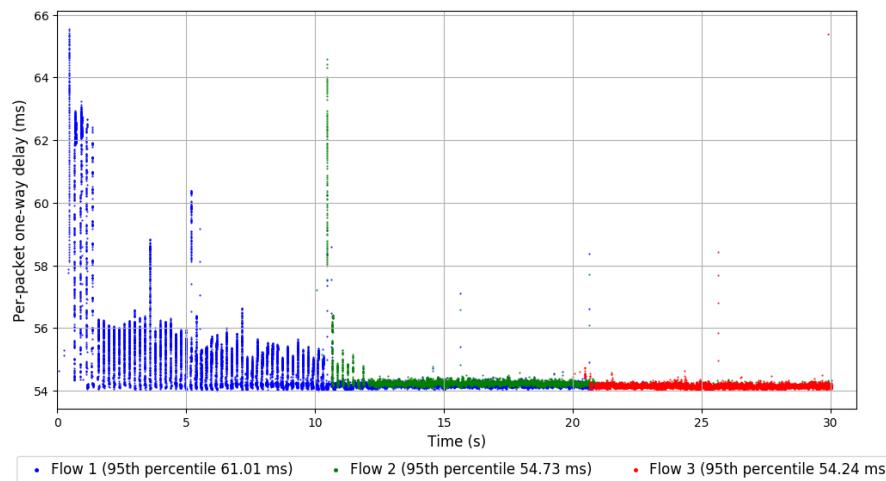
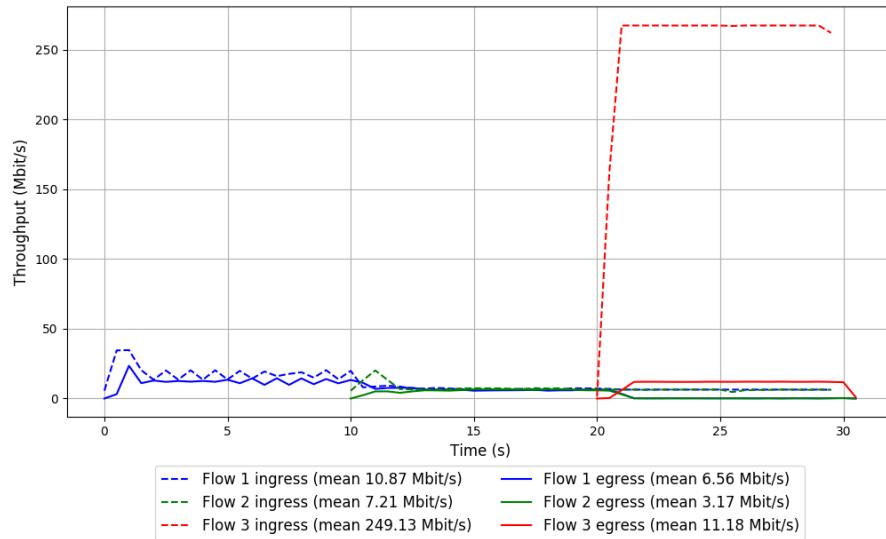


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-03 00:18:44
End at: 2019-01-03 00:19:14
Local clock offset: 4.191 ms
Remote clock offset: -41.899 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 56.902 ms
Loss rate: 87.43%
-- Flow 1:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 61.009 ms
Loss rate: 39.66%
-- Flow 2:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 54.729 ms
Loss rate: 56.05%
-- Flow 3:
Average throughput: 11.18 Mbit/s
95th percentile per-packet one-way delay: 54.241 ms
Loss rate: 95.51%
```

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

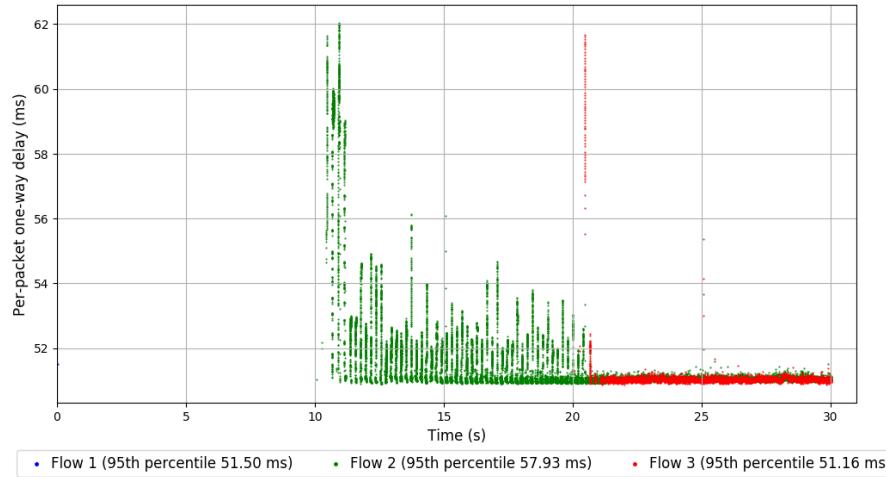
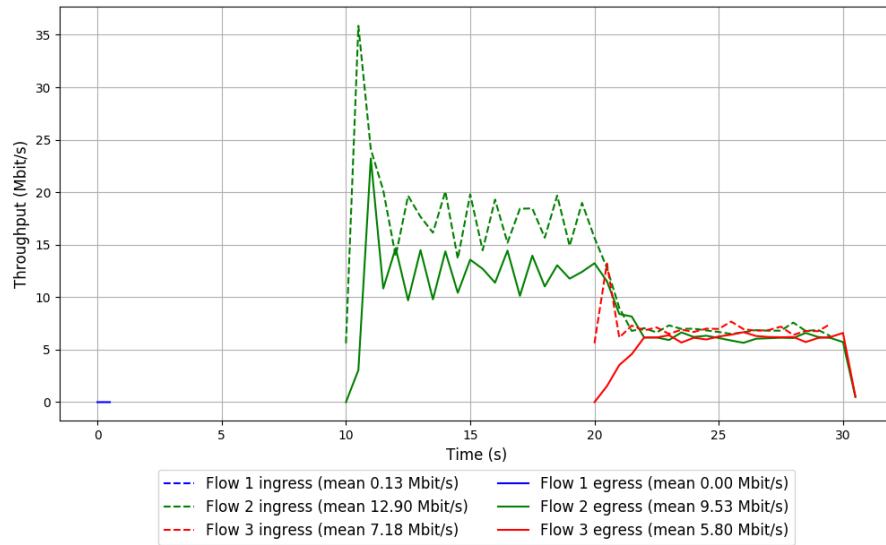


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-03 00:51:43
End at: 2019-01-03 00:52:13
Local clock offset: 0.41 ms
Remote clock offset: -48.162 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 55.698 ms
Loss rate: 24.66%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 51.496 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 57.927 ms
Loss rate: 26.14%
-- Flow 3:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 51.164 ms
Loss rate: 19.31%
```

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

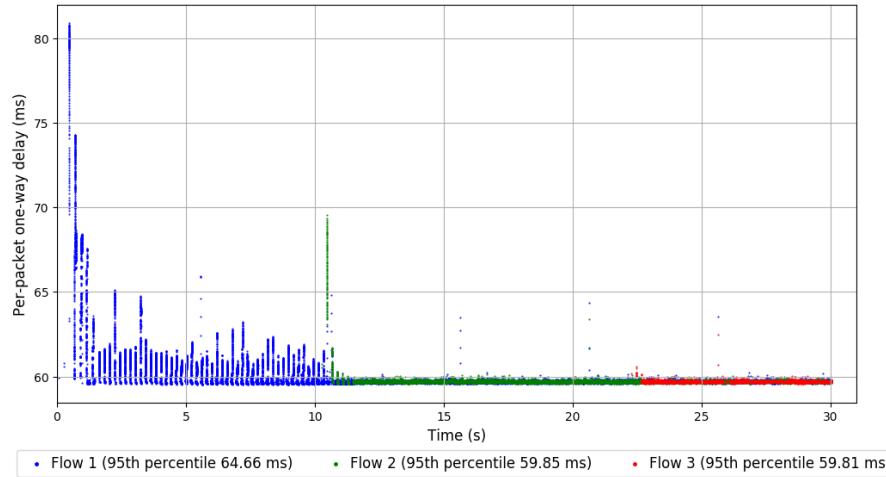
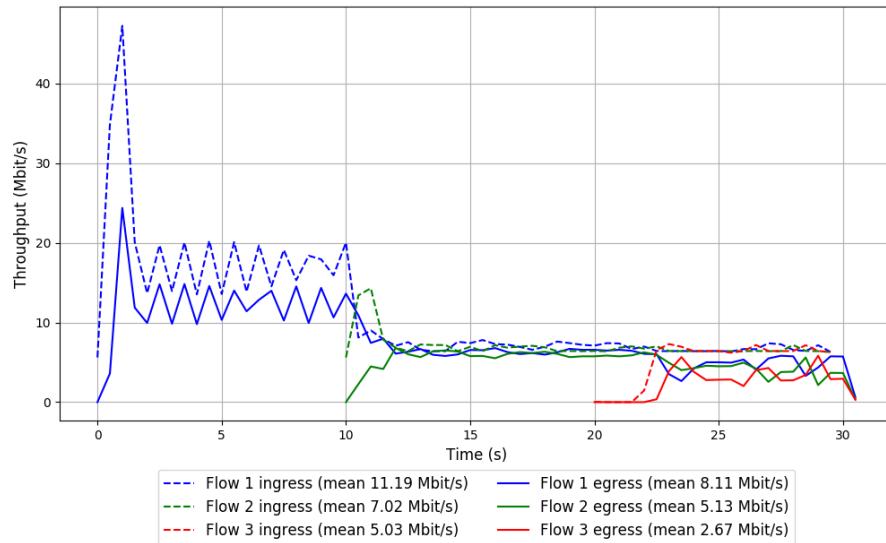


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-03 01:18:59
End at: 2019-01-03 01:19:29
Local clock offset: -0.367 ms
Remote clock offset: -40.768 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 62.501 ms
Loss rate: 29.24%
-- Flow 1:
Average throughput: 8.11 Mbit/s
95th percentile per-packet one-way delay: 64.655 ms
Loss rate: 27.55%
-- Flow 2:
Average throughput: 5.13 Mbit/s
95th percentile per-packet one-way delay: 59.849 ms
Loss rate: 26.95%
-- Flow 3:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 59.806 ms
Loss rate: 46.93%
```

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

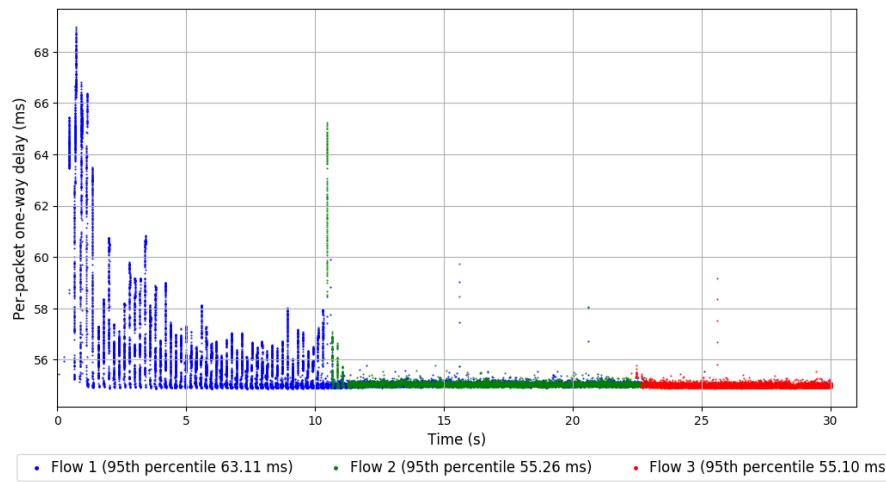
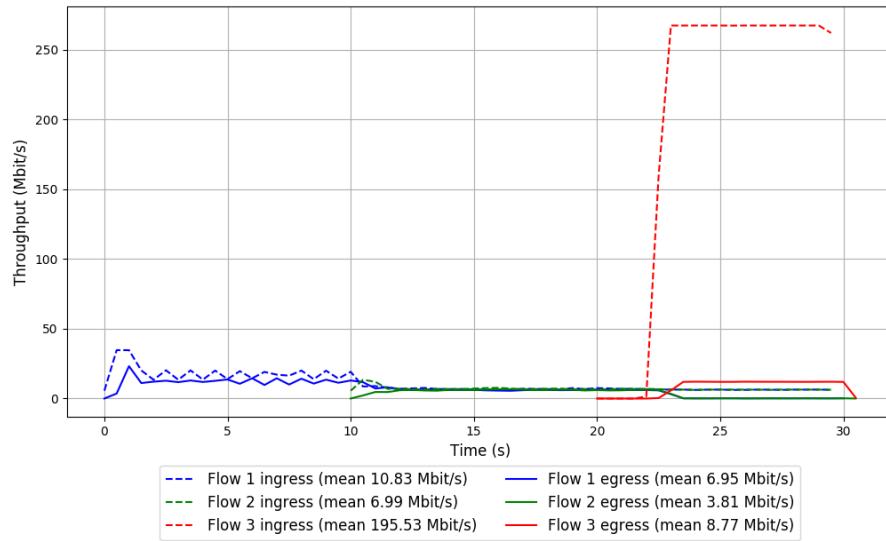


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-03 01:52:14
End at: 2019-01-03 01:52:44
Local clock offset: 2.975 ms
Remote clock offset: -42.001 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 59.058 ms
Loss rate: 84.61%
-- Flow 1:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 63.108 ms
Loss rate: 36.00%
-- Flow 2:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 55.264 ms
Loss rate: 45.46%
-- Flow 3:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 55.105 ms
Loss rate: 95.51%
```

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

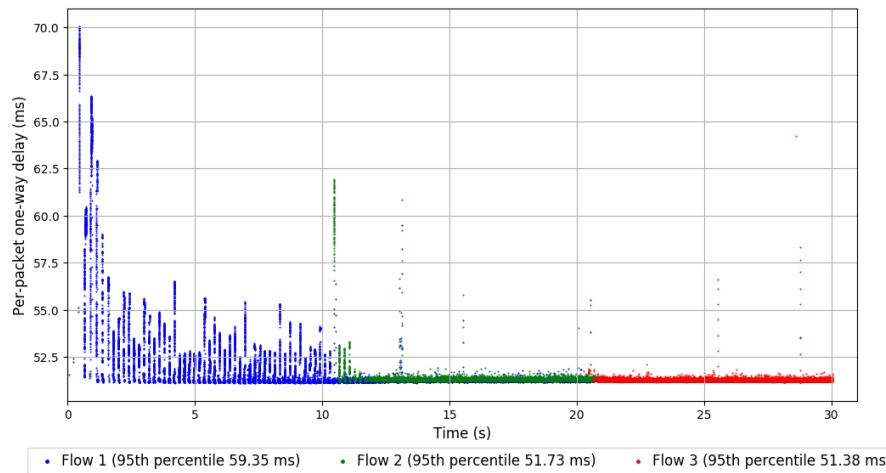
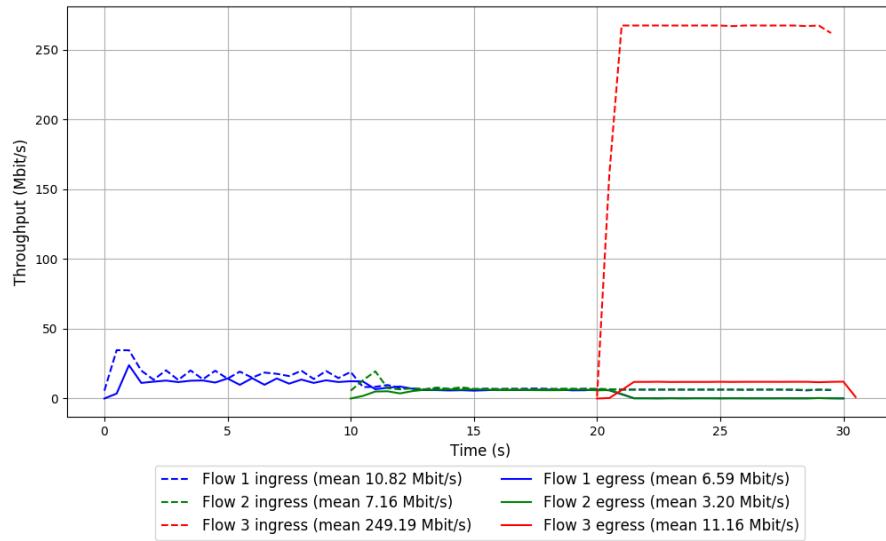


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-03 02:19:31
End at: 2019-01-03 02:20:01
Local clock offset: 2.554 ms
Remote clock offset: -46.884 ms

# Below is generated by plot.py at 2019-01-03 02:54:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 55.572 ms
Loss rate: 87.40%
-- Flow 1:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 59.353 ms
Loss rate: 39.24%
-- Flow 2:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 51.730 ms
Loss rate: 55.45%
-- Flow 3:
Average throughput: 11.16 Mbit/s
95th percentile per-packet one-way delay: 51.385 ms
Loss rate: 95.52%
```

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

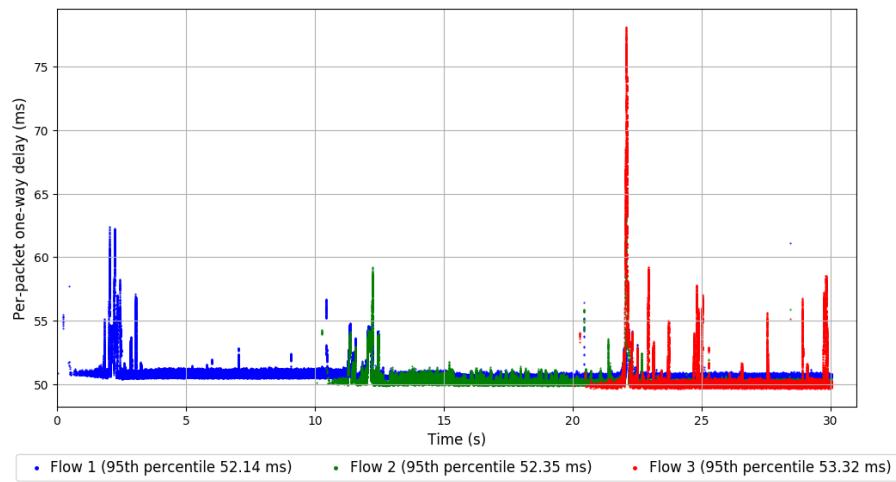
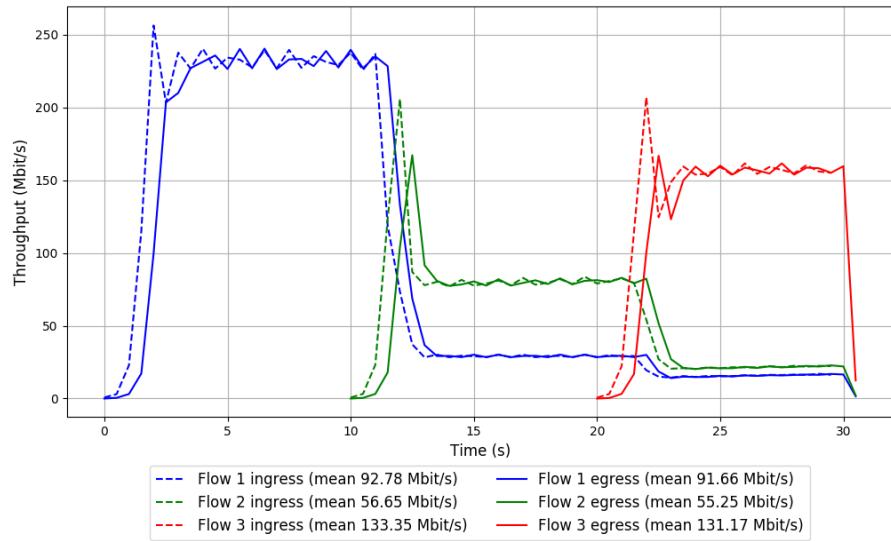


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-03 00:13:03
End at: 2019-01-03 00:13:33
Local clock offset: 2.478 ms
Remote clock offset: -47.61 ms

# Below is generated by plot.py at 2019-01-03 02:54:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.07 Mbit/s
95th percentile per-packet one-way delay: 52.478 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 91.66 Mbit/s
95th percentile per-packet one-way delay: 52.136 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 52.352 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 131.17 Mbit/s
95th percentile per-packet one-way delay: 53.318 ms
Loss rate: 1.63%
```

Run 1: Report of TCP Vegas — Data Link

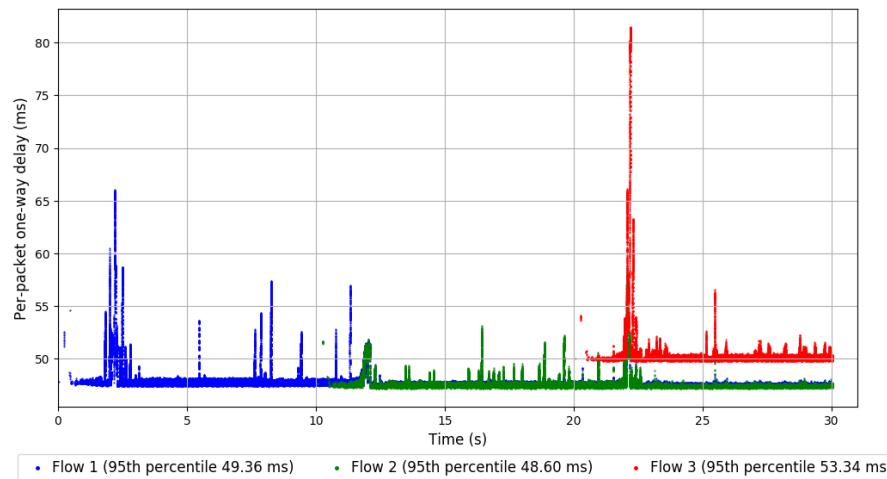
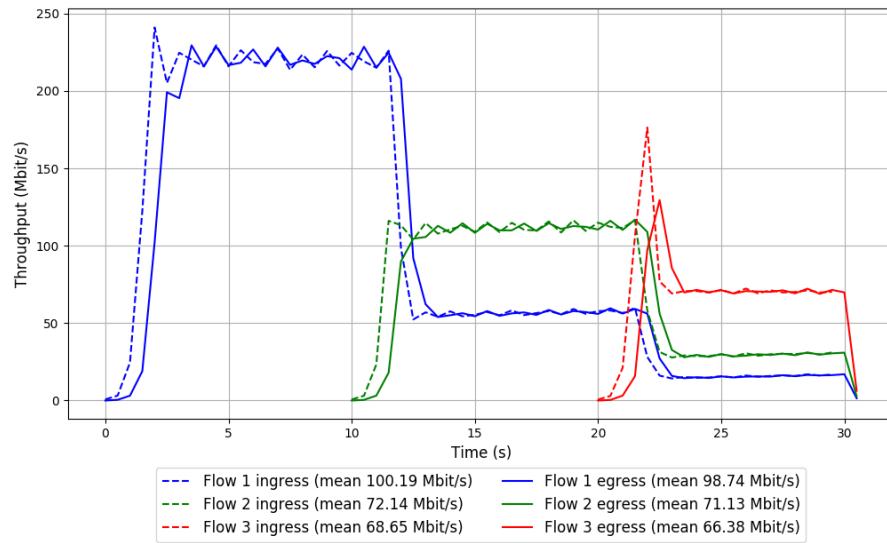


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-03 00:45:52
End at: 2019-01-03 00:46:22
Local clock offset: 4.092 ms
Remote clock offset: -48.004 ms

# Below is generated by plot.py at 2019-01-03 02:54:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.19 Mbit/s
95th percentile per-packet one-way delay: 50.433 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 98.74 Mbit/s
95th percentile per-packet one-way delay: 49.360 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 71.13 Mbit/s
95th percentile per-packet one-way delay: 48.604 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 66.38 Mbit/s
95th percentile per-packet one-way delay: 53.335 ms
Loss rate: 3.32%
```

Run 2: Report of TCP Vegas — Data Link

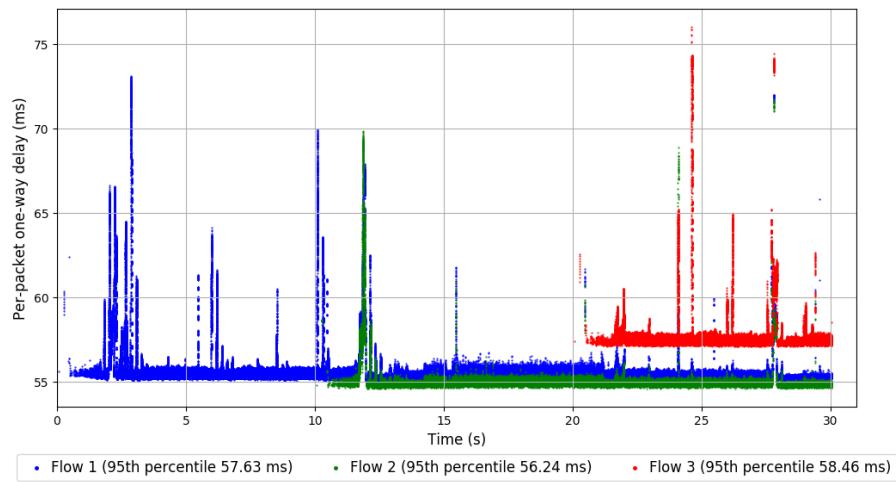
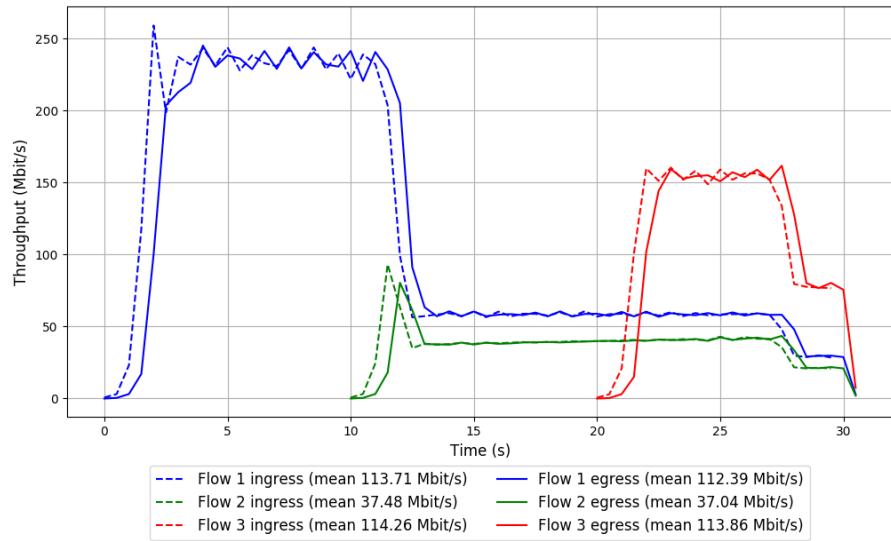


Run 3: Statistics of TCP Vegas

```
Start at: 2019-01-03 01:13:20
End at: 2019-01-03 01:13:50
Local clock offset: 3.753 ms
Remote clock offset: -41.308 ms

# Below is generated by plot.py at 2019-01-03 02:54:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 174.90 Mbit/s
95th percentile per-packet one-way delay: 57.883 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 112.39 Mbit/s
95th percentile per-packet one-way delay: 57.628 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 37.04 Mbit/s
95th percentile per-packet one-way delay: 56.236 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 113.86 Mbit/s
95th percentile per-packet one-way delay: 58.457 ms
Loss rate: 0.35%
```

Run 3: Report of TCP Vegas — Data Link

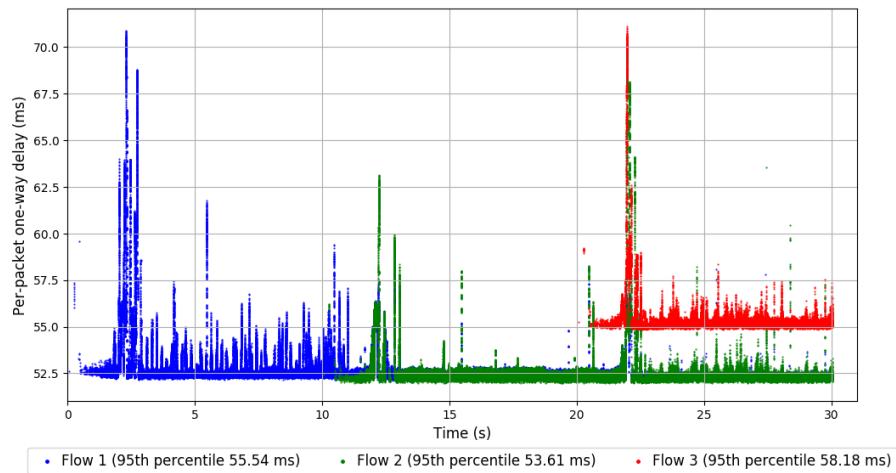
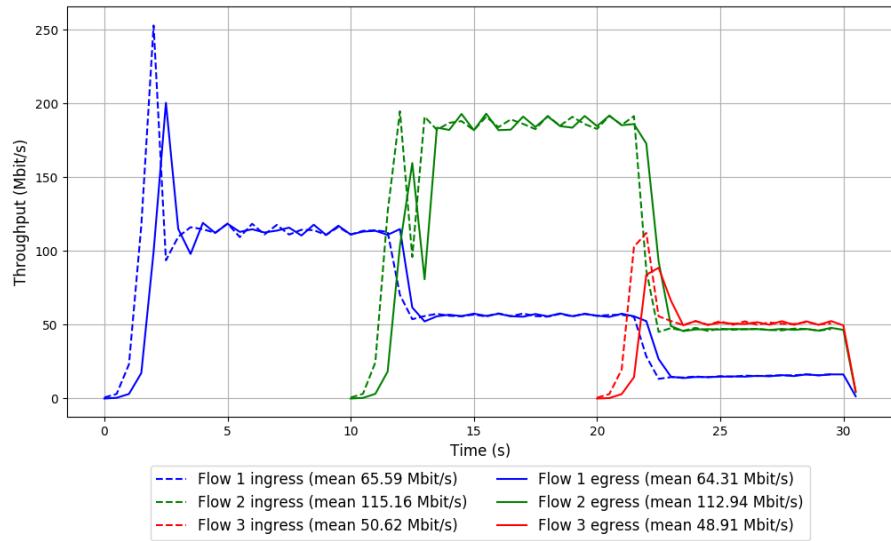


Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-03 01:46:34
End at: 2019-01-03 01:47:04
Local clock offset: 3.36 ms
Remote clock offset: -44.218 ms

# Below is generated by plot.py at 2019-01-03 02:54:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 155.79 Mbit/s
95th percentile per-packet one-way delay: 55.551 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 64.31 Mbit/s
95th percentile per-packet one-way delay: 55.544 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 112.94 Mbit/s
95th percentile per-packet one-way delay: 53.608 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 48.91 Mbit/s
95th percentile per-packet one-way delay: 58.182 ms
Loss rate: 3.38%
```

Run 4: Report of TCP Vegas — Data Link

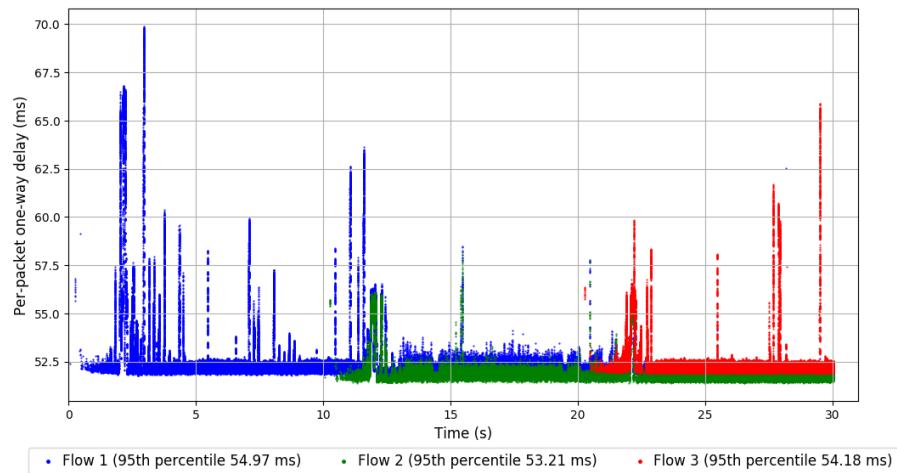
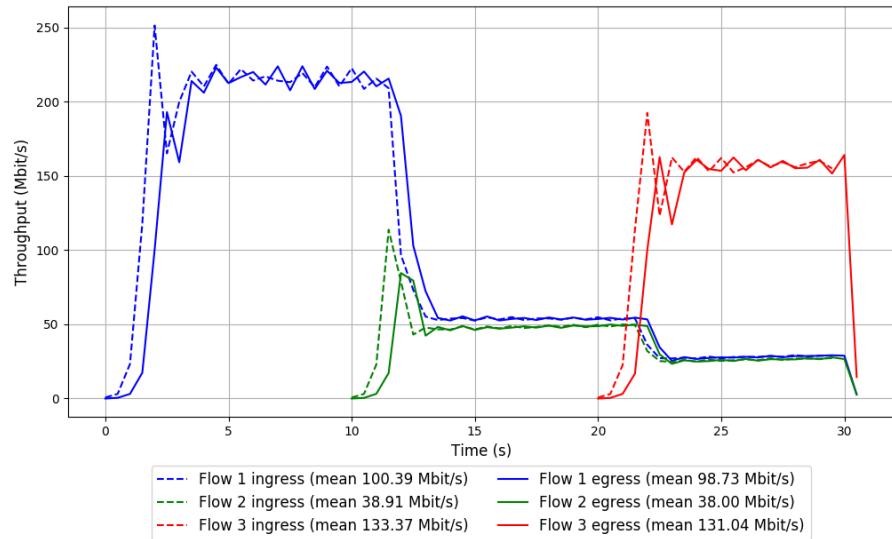


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-03 02:13:49
End at: 2019-01-03 02:14:19
Local clock offset: 0.851 ms
Remote clock offset: -47.797 ms

# Below is generated by plot.py at 2019-01-03 02:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 167.66 Mbit/s
95th percentile per-packet one-way delay: 54.613 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 98.73 Mbit/s
95th percentile per-packet one-way delay: 54.966 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 53.210 ms
Loss rate: 2.35%
-- Flow 3:
Average throughput: 131.04 Mbit/s
95th percentile per-packet one-way delay: 54.181 ms
Loss rate: 1.75%
```

Run 5: Report of TCP Vegas — Data Link

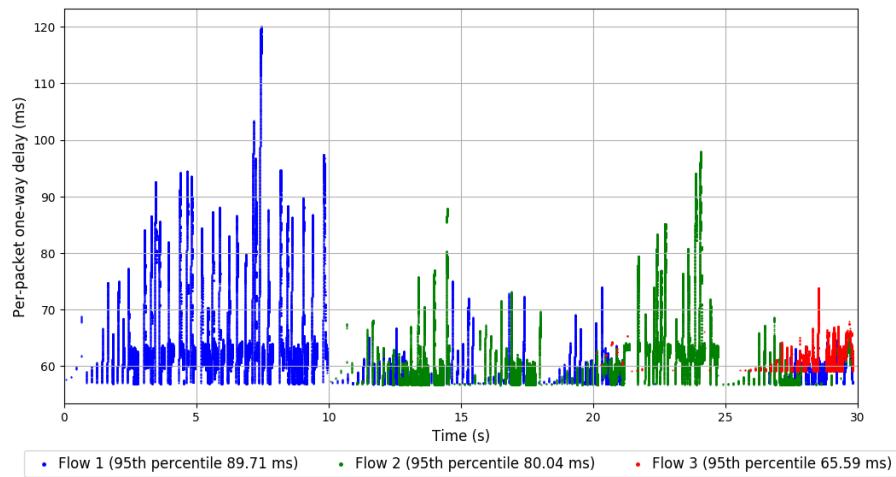
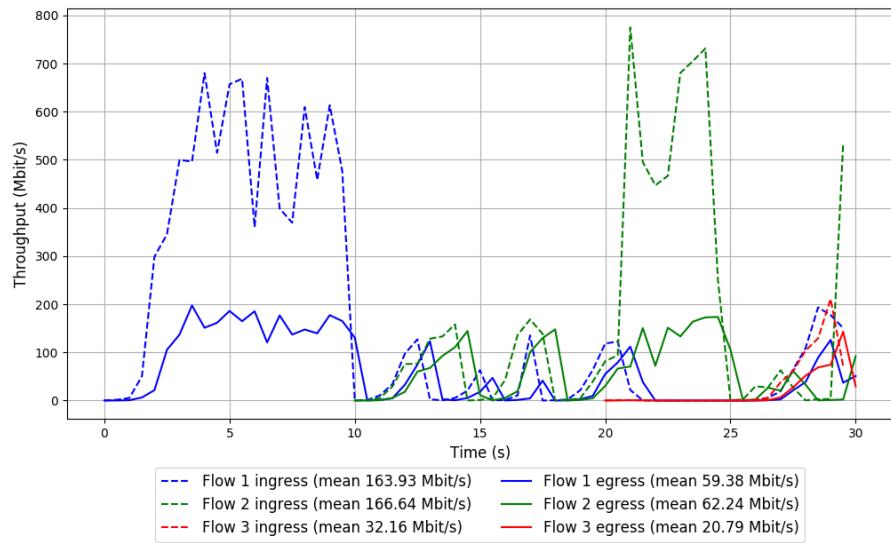


Run 1: Statistics of Verus

```
Start at: 2019-01-03 00:21:41
End at: 2019-01-03 00:22:11
Local clock offset: 1.496 ms
Remote clock offset: -41.996 ms

# Below is generated by plot.py at 2019-01-03 02:55:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 107.36 Mbit/s
95th percentile per-packet one-way delay: 86.779 ms
Loss rate: 62.29%
-- Flow 1:
Average throughput: 59.38 Mbit/s
95th percentile per-packet one-way delay: 89.706 ms
Loss rate: 63.78%
-- Flow 2:
Average throughput: 62.24 Mbit/s
95th percentile per-packet one-way delay: 80.038 ms
Loss rate: 62.64%
-- Flow 3:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 65.590 ms
Loss rate: 35.36%
```

Run 1: Report of Verus — Data Link

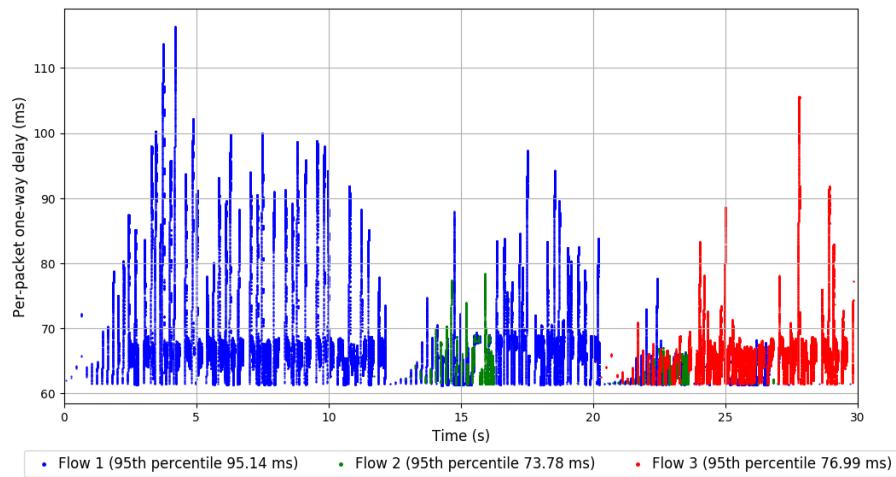
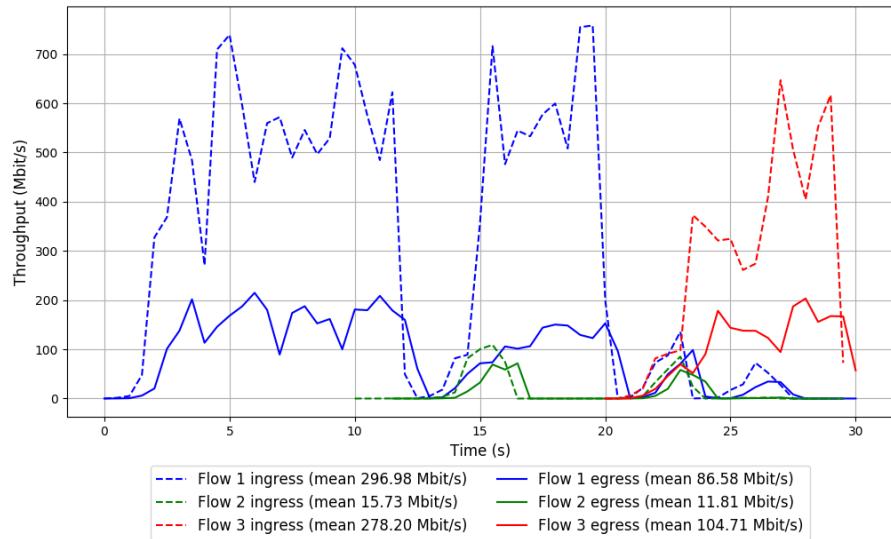


Run 2: Statistics of Verus

```
Start at: 2019-01-03 00:54:35
End at: 2019-01-03 00:55:06
Local clock offset: 3.243 ms
Remote clock offset: -34.936 ms

# Below is generated by plot.py at 2019-01-03 02:56:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.50 Mbit/s
95th percentile per-packet one-way delay: 92.591 ms
Loss rate: 67.86%
-- Flow 1:
Average throughput: 86.58 Mbit/s
95th percentile per-packet one-way delay: 95.137 ms
Loss rate: 70.85%
-- Flow 2:
Average throughput: 11.81 Mbit/s
95th percentile per-packet one-way delay: 73.779 ms
Loss rate: 29.64%
-- Flow 3:
Average throughput: 104.71 Mbit/s
95th percentile per-packet one-way delay: 76.986 ms
Loss rate: 62.34%
```

Run 2: Report of Verus — Data Link

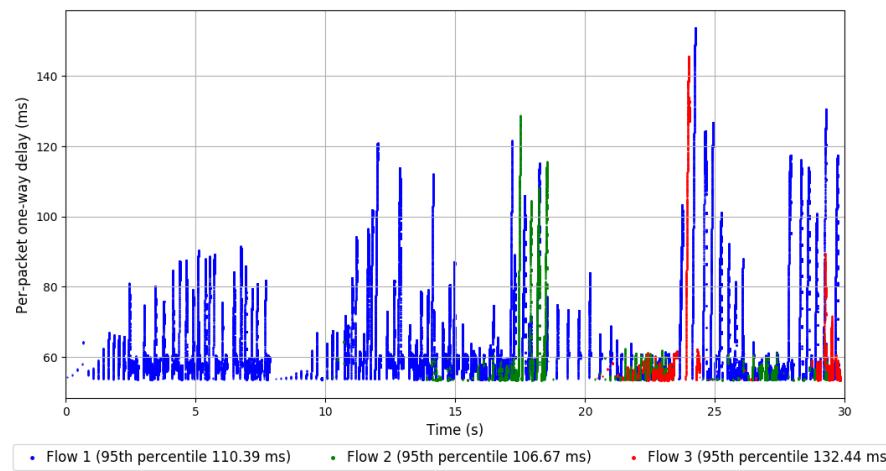
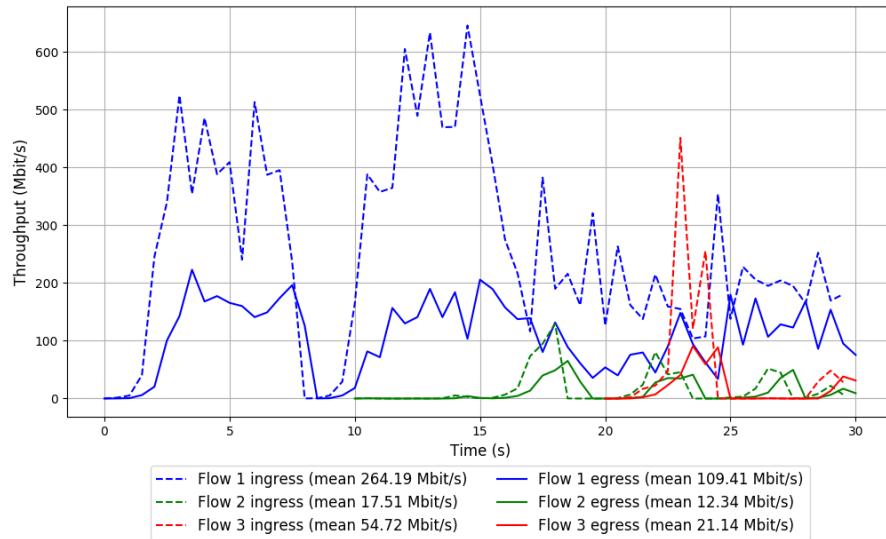


Run 3: Statistics of Verus

```
Start at: 2019-01-03 01:21:53
End at: 2019-01-03 01:22:23
Local clock offset: 3.162 ms
Remote clock offset: -43.44 ms

# Below is generated by plot.py at 2019-01-03 02:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.11 Mbit/s
95th percentile per-packet one-way delay: 111.076 ms
Loss rate: 57.60%
-- Flow 1:
Average throughput: 109.41 Mbit/s
95th percentile per-packet one-way delay: 110.387 ms
Loss rate: 58.58%
-- Flow 2:
Average throughput: 12.34 Mbit/s
95th percentile per-packet one-way delay: 106.669 ms
Loss rate: 29.51%
-- Flow 3:
Average throughput: 21.14 Mbit/s
95th percentile per-packet one-way delay: 132.440 ms
Loss rate: 61.37%
```

Run 3: Report of Verus — Data Link

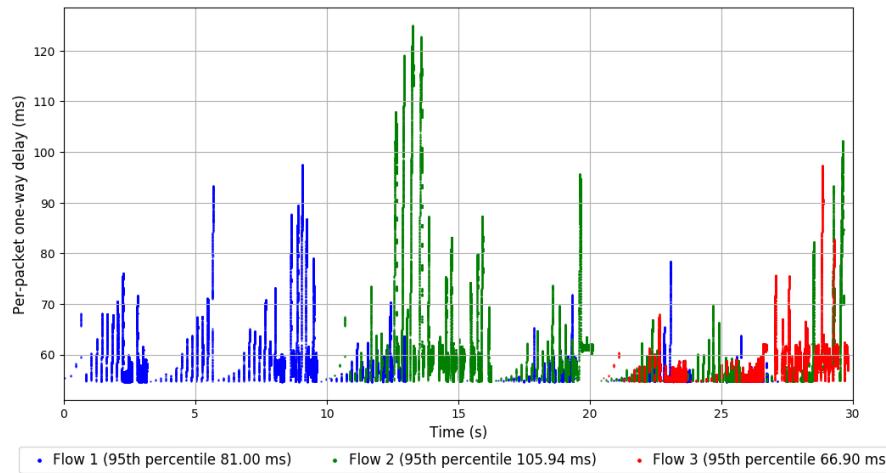
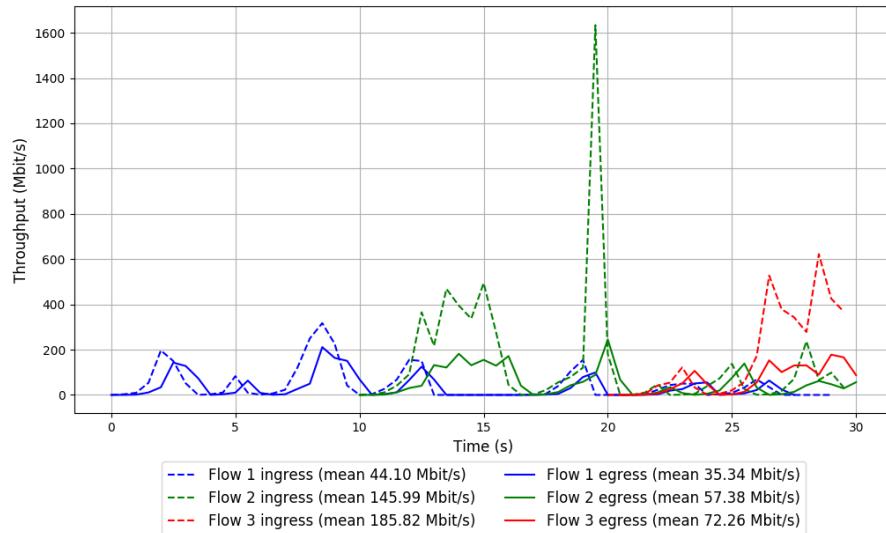


Run 4: Statistics of Verus

```
Start at: 2019-01-03 01:55:10
End at: 2019-01-03 01:55:40
Local clock offset: 3.094 ms
Remote clock offset: -42.169 ms

# Below is generated by plot.py at 2019-01-03 02:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 91.045 ms
Loss rate: 53.13%
-- Flow 1:
Average throughput: 35.34 Mbit/s
95th percentile per-packet one-way delay: 80.998 ms
Loss rate: 25.79%
-- Flow 2:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 105.938 ms
Loss rate: 60.67%
-- Flow 3:
Average throughput: 72.26 Mbit/s
95th percentile per-packet one-way delay: 66.899 ms
Loss rate: 61.10%
```

Run 4: Report of Verus — Data Link

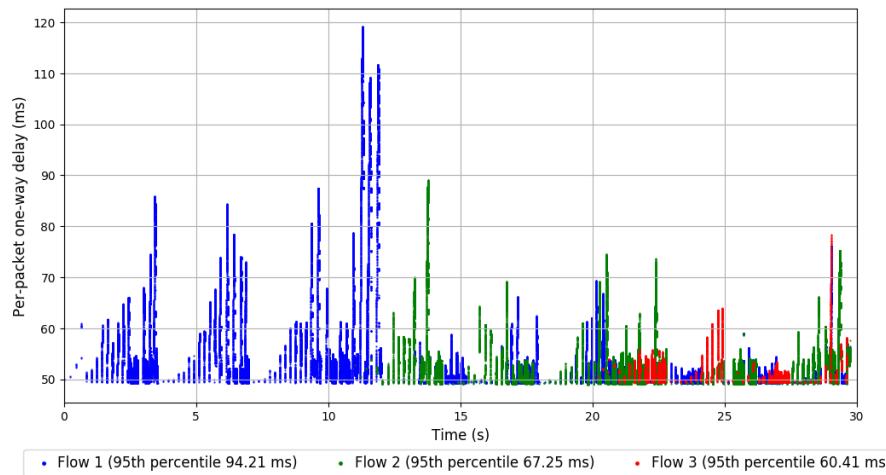
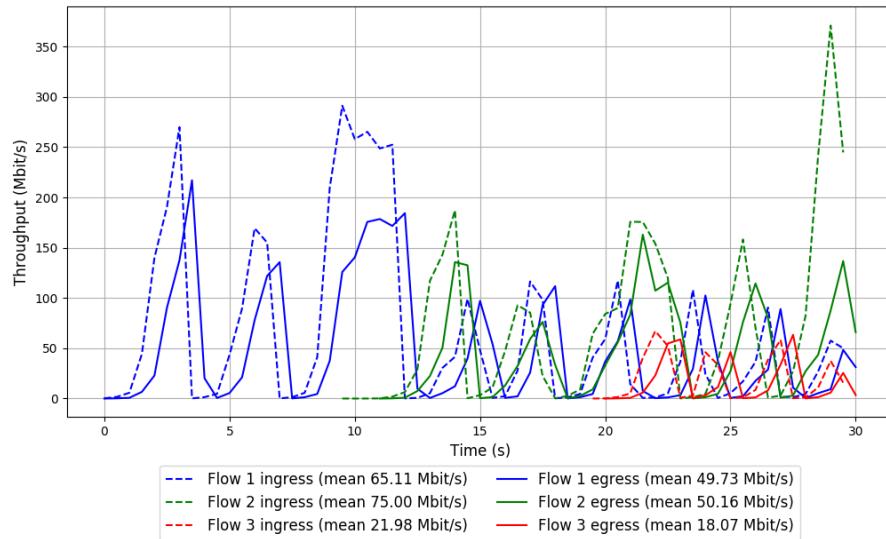


Run 5: Statistics of Verus

```
Start at: 2019-01-03 02:22:26
End at: 2019-01-03 02:22:56
Local clock offset: 4.187 ms
Remote clock offset: -47.396 ms

# Below is generated by plot.py at 2019-01-03 02:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.22 Mbit/s
95th percentile per-packet one-way delay: 80.601 ms
Loss rate: 28.52%
-- Flow 1:
Average throughput: 49.73 Mbit/s
95th percentile per-packet one-way delay: 94.211 ms
Loss rate: 23.60%
-- Flow 2:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 67.249 ms
Loss rate: 36.48%
-- Flow 3:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 60.407 ms
Loss rate: 17.76%
```

Run 5: Report of Verus — Data Link

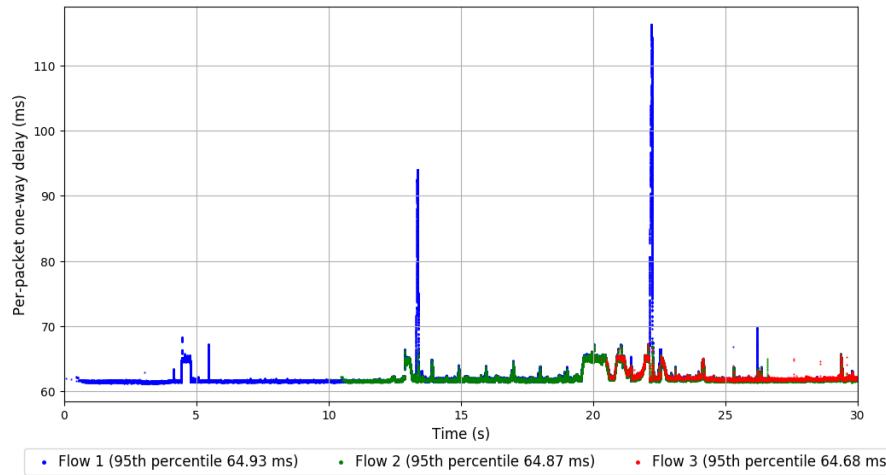
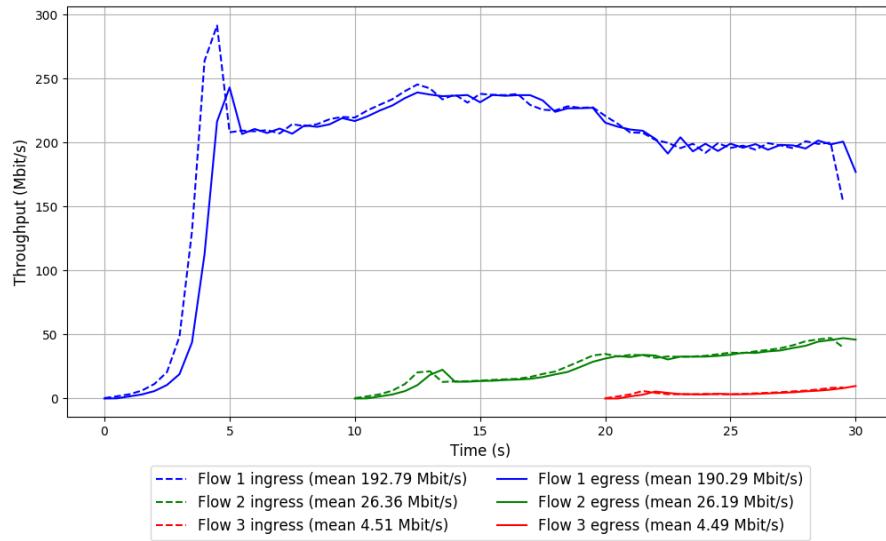


```
Run 1: Statistics of PCC-Vivace

Start at: 2019-01-03 00:28:44
End at: 2019-01-03 00:29:14
Local clock offset: -1.175 ms
Remote clock offset: -39.649 ms

# Below is generated by plot.py at 2019-01-03 02:56:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.19 Mbit/s
95th percentile per-packet one-way delay: 64.924 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 190.29 Mbit/s
95th percentile per-packet one-way delay: 64.931 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 26.19 Mbit/s
95th percentile per-packet one-way delay: 64.872 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 64.677 ms
Loss rate: 0.55%
```

Run 1: Report of PCC-Vivace — Data Link

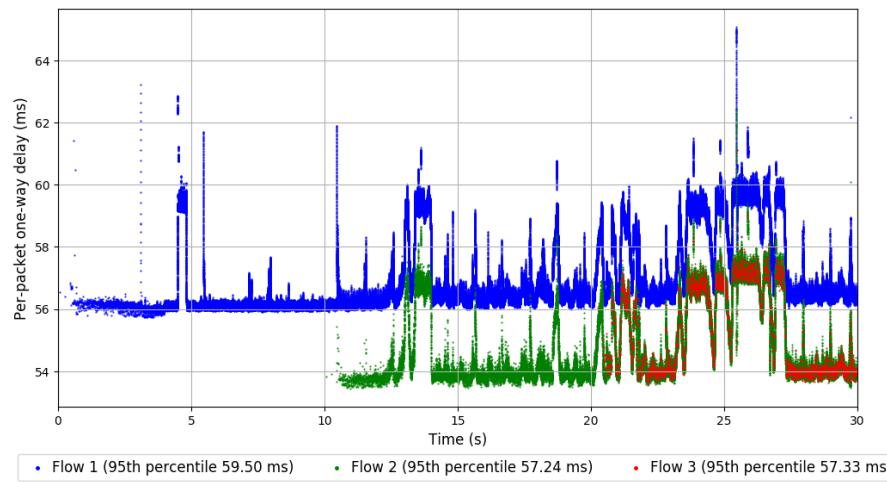
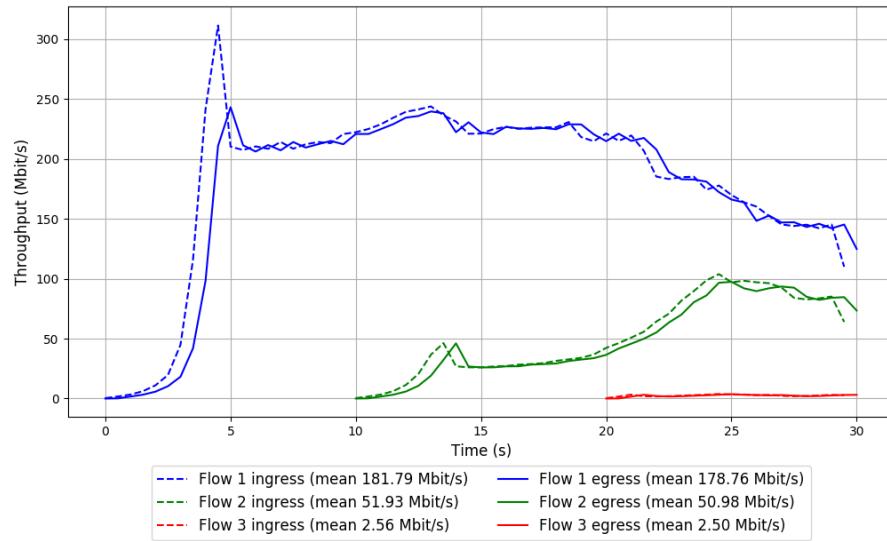


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-03 01:01:47
End at: 2019-01-03 01:02:17
Local clock offset: 3.687 ms
Remote clock offset: -42.57 ms

# Below is generated by plot.py at 2019-01-03 02:56:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 213.49 Mbit/s
95th percentile per-packet one-way delay: 59.421 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 178.76 Mbit/s
95th percentile per-packet one-way delay: 59.498 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 57.243 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 57.329 ms
Loss rate: 2.52%
```

Run 2: Report of PCC-Vivace — Data Link

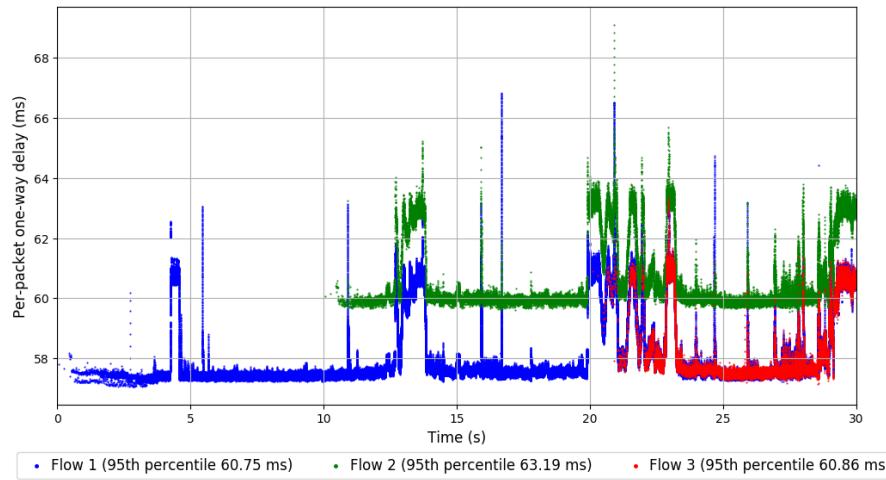
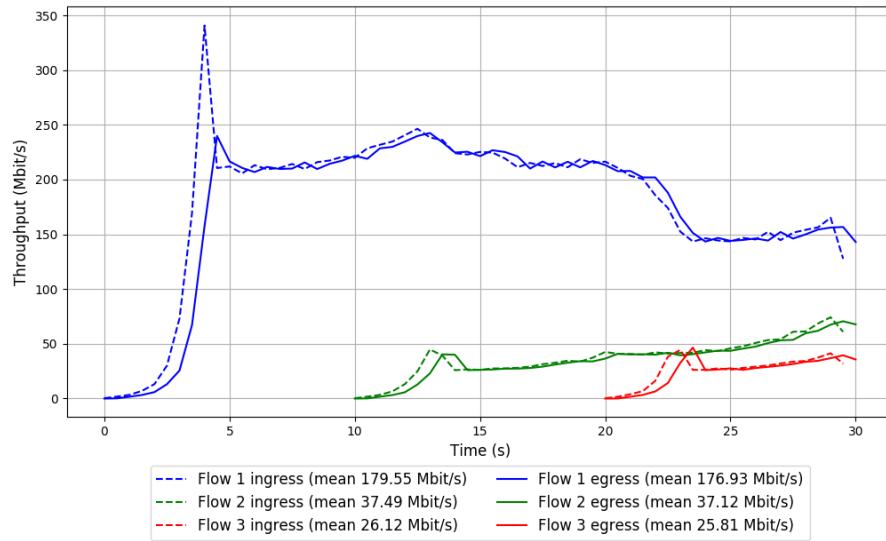


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-03 01:34:40
End at: 2019-01-03 01:35:10
Local clock offset: -0.838 ms
Remote clock offset: -43.566 ms

# Below is generated by plot.py at 2019-01-03 02:56:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 210.14 Mbit/s
95th percentile per-packet one-way delay: 60.985 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 176.93 Mbit/s
95th percentile per-packet one-way delay: 60.754 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 63.191 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 25.81 Mbit/s
95th percentile per-packet one-way delay: 60.862 ms
Loss rate: 1.19%
```

Run 3: Report of PCC-Vivace — Data Link

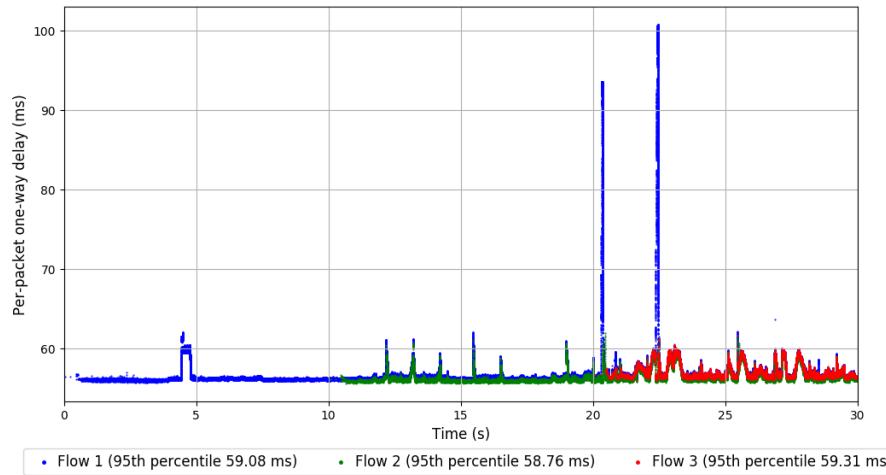
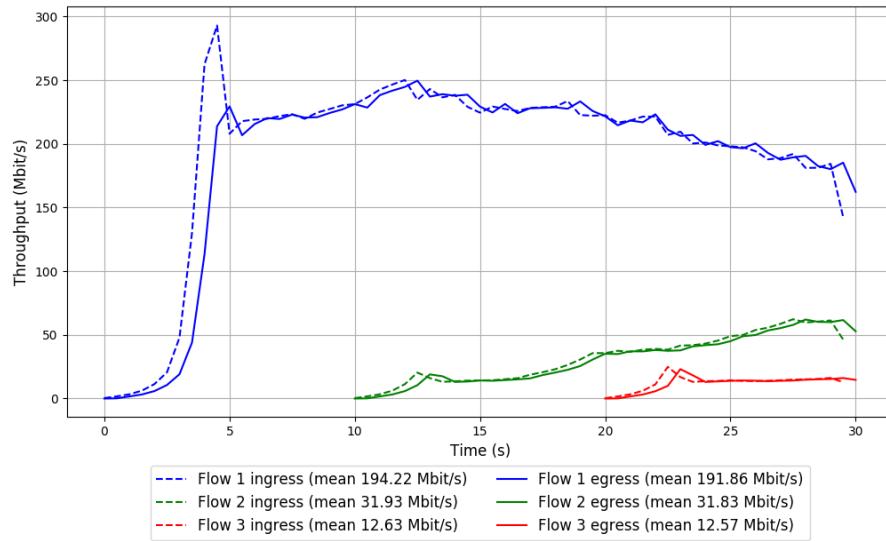


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-03 02:02:12
End at: 2019-01-03 02:02:42
Local clock offset: -0.391 ms
Remote clock offset: -44.649 ms

# Below is generated by plot.py at 2019-01-03 02:57:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 217.17 Mbit/s
95th percentile per-packet one-way delay: 59.025 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 191.86 Mbit/s
95th percentile per-packet one-way delay: 59.076 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 58.759 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 59.309 ms
Loss rate: 0.46%
```

Run 4: Report of PCC-Vivace — Data Link

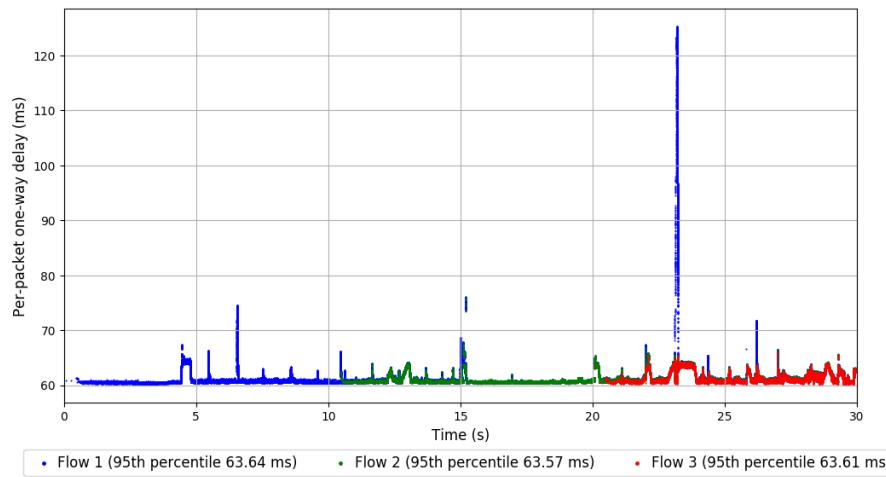
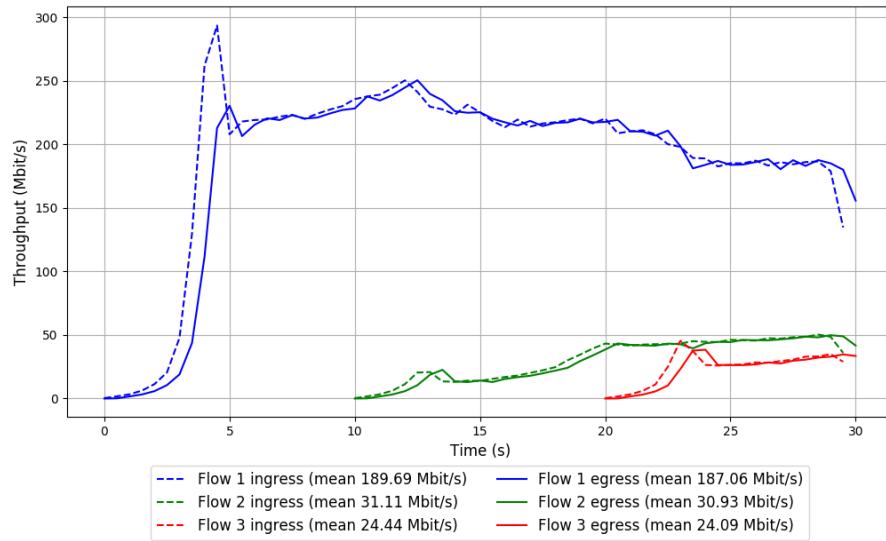


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-03 02:29:29
End at: 2019-01-03 02:29:59
Local clock offset: 1.949 ms
Remote clock offset: -38.035 ms

# Below is generated by plot.py at 2019-01-03 02:57:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.59 Mbit/s
95th percentile per-packet one-way delay: 63.625 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 187.06 Mbit/s
95th percentile per-packet one-way delay: 63.638 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 30.93 Mbit/s
95th percentile per-packet one-way delay: 63.573 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 63.612 ms
Loss rate: 1.44%
```

Run 5: Report of PCC-Vivace — Data Link

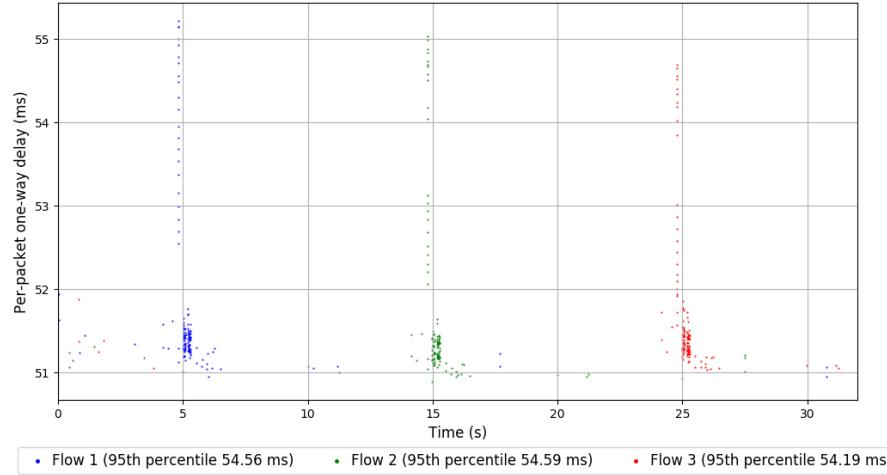
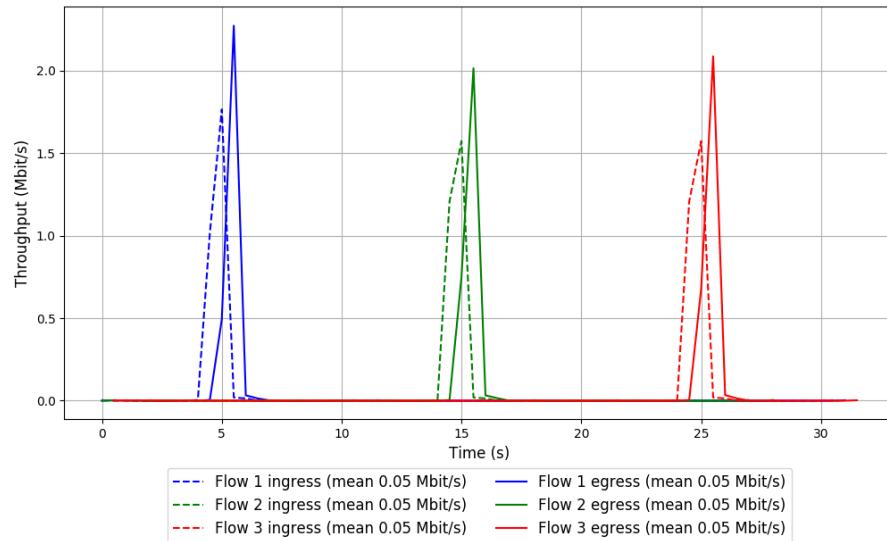


```
Run 1: Statistics of WebRTC media

Start at: 2019-01-03 00:23:09
End at: 2019-01-03 00:23:39
Local clock offset: 2.153 ms
Remote clock offset: -47.012 ms

# Below is generated by plot.py at 2019-01-03 02:57:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 54.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.563 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.585 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.190 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

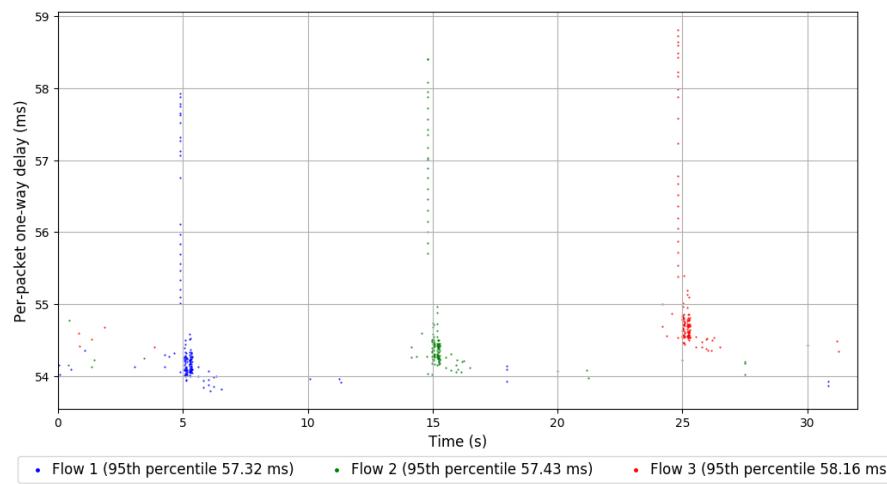
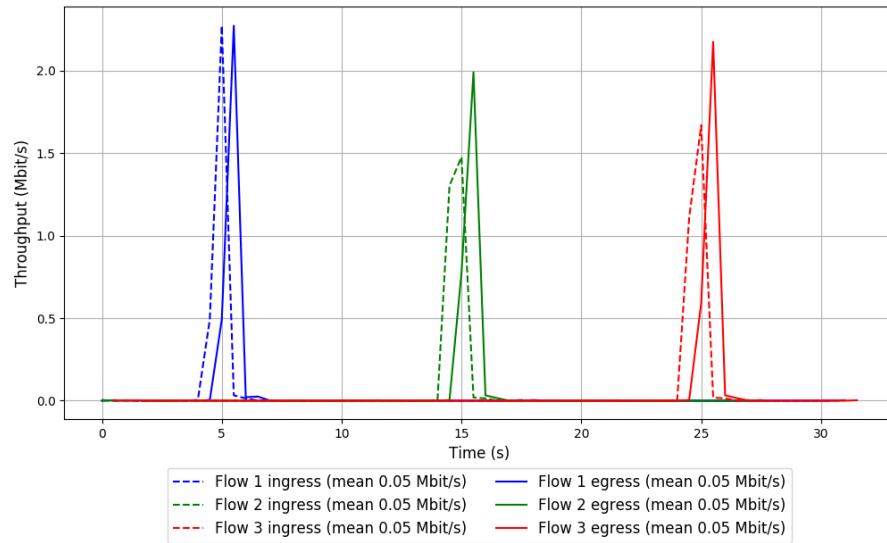


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-03 00:56:06
End at: 2019-01-03 00:56:36
Local clock offset: 0.854 ms
Remote clock offset: -44.762 ms

# Below is generated by plot.py at 2019-01-03 02:57:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 57.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.323 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.429 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.163 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

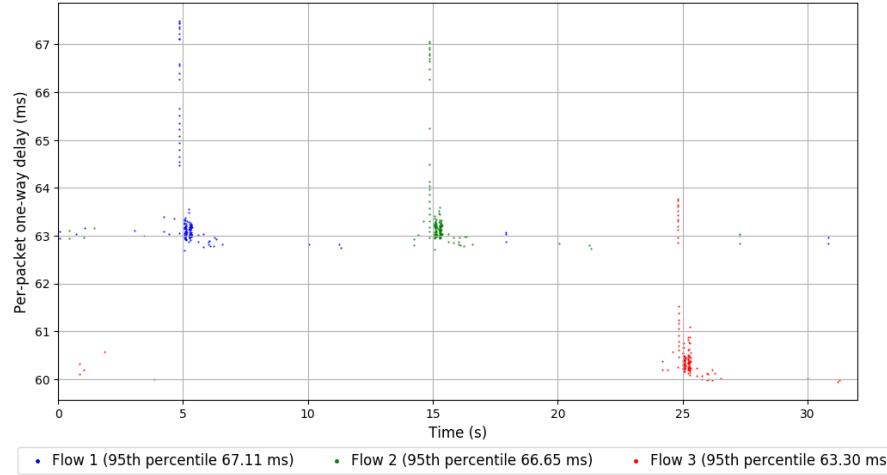
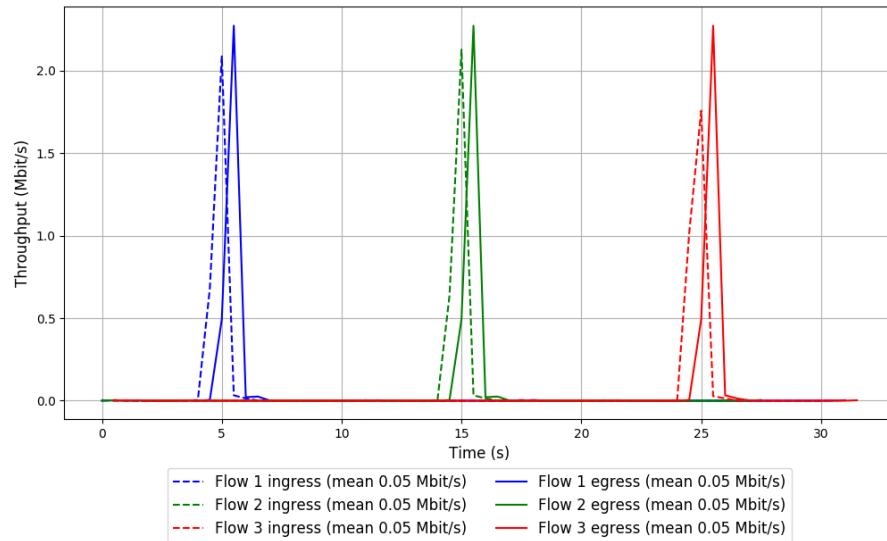


```
Run 3: Statistics of WebRTC media

Start at: 2019-01-03 01:23:23
End at: 2019-01-03 01:23:53
Local clock offset: 4.721 ms
Remote clock offset: -35.109 ms

# Below is generated by plot.py at 2019-01-03 02:57:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 65.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.108 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.654 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.300 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

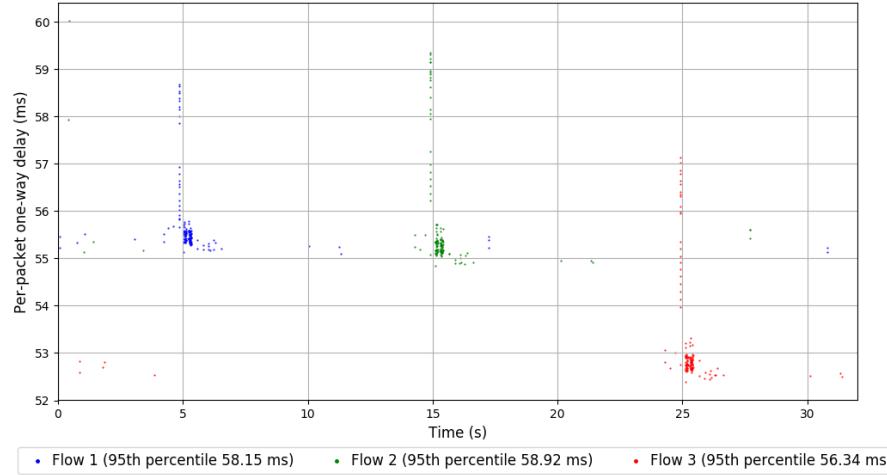
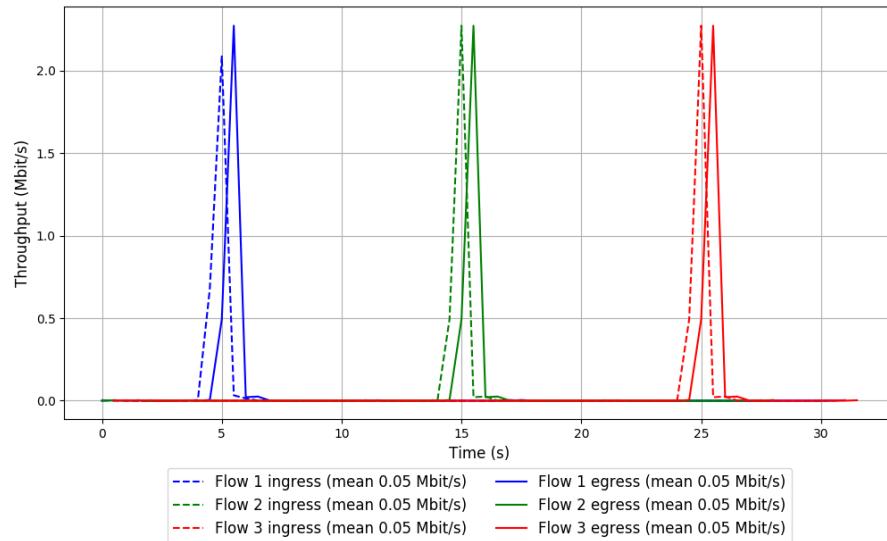


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-03 01:56:37
End at: 2019-01-03 01:57:07
Local clock offset: -0.162 ms
Remote clock offset: -47.643 ms

# Below is generated by plot.py at 2019-01-03 02:57:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 58.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.148 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.922 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.342 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-03 02:23:50
End at: 2019-01-03 02:24:20
Local clock offset: -0.215 ms
Remote clock offset: -41.262 ms

# Below is generated by plot.py at 2019-01-03 02:57:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 63.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.172 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.091 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.016 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

