Pantheon Report

Generated at 2019-08-27 01:46:56 (UTC).

Data path: AWS India 1 on `ens5` (*local*) →India on `em1` (*remote*).

Repeated the test of 24 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 4.15.0-1043-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 @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
```

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

test from AWS India 1 to India, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)

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

Legend:
- FillP-Sheep
- Indigo
- Sprout
- Indigo-MusesD
- Indigo-MusesT
- Muses_DecisionTree
- Verus
- PCC-Allegro
- WebRTC media
- LEDBAT
- PCC-Expr
- Copa
- QUIC Cubic
- TCP Cubic
- PCC-Vivace
- TCP Vegas
- TaoVA-100x
- Muses_DecisionTreeR0
- FillP
- TCP BBR
- Indigo-MusesC5
- Muses_DecisionTreeH0
- SCReAM
- Indigo-MusesC3

3

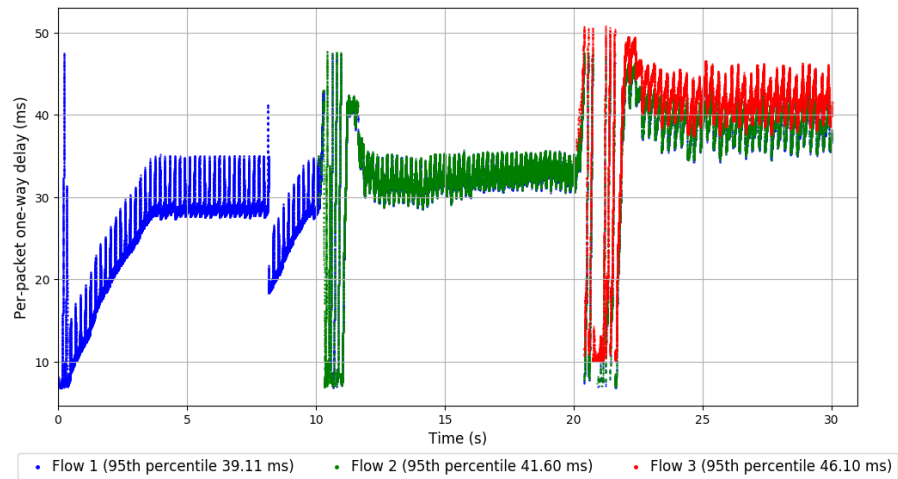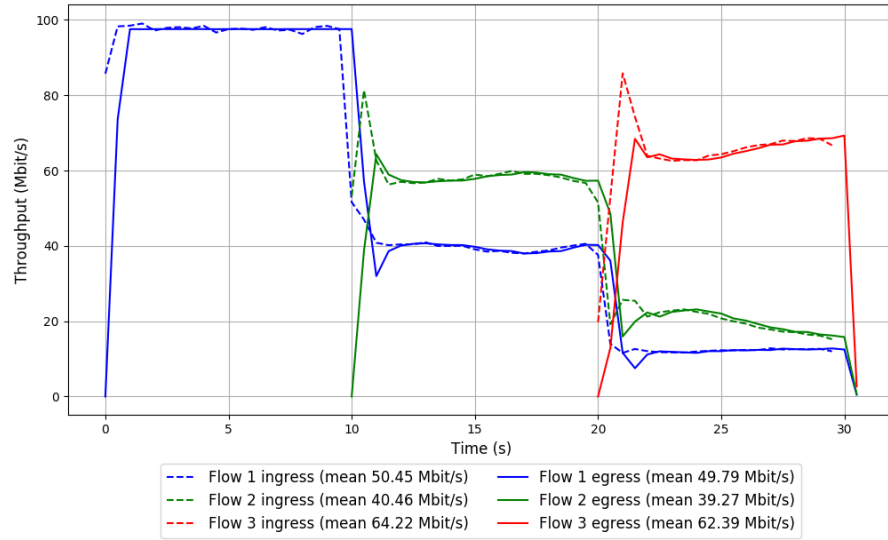| scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	52.20	45.84	42.30	41.64	43.74	45.29	1.38	2.94	2.56
Copa	5	9.88	3.72	2.01	11.62	11.59	11.30	71.43	70.94	86.54
TCP Cubic	5	71.27	29.77	15.02	48.79	47.01	49.32	0.78	0.86	0.79
FillP	5	56.52	40.81	27.73	43.19	46.43	48.36	29.30	47.24	59.14
FillP-Sheep	5	56.43	37.20	31.80	40.39	43.84	44.50	4.73	9.34	15.66
Indigo	5	55.10	36.06	41.16	15.11	16.96	18.05	6.74	7.74	8.26
Indigo-MusesC3	5	49.56	57.76	32.11	14.37	17.03	17.84	0.00	0.01	4.75
Indigo-MusesC5	5	61.25	43.44	19.87	39.88	43.11	45.11	3.35	8.28	27.93
Indigo-MusesD	5	64.62	38.19	20.88	26.52	38.90	40.50	3.36	8.91	15.25
Indigo-MusesT	5	65.75	32.41	30.44	32.33	35.75	38.52	2.54	7.96	14.72
LEDBAT	5	50.16	30.27	16.10	45.47	44.17	39.68	0.44	4.28	8.66
Muses_DecisionTree	5	54.90	33.65	45.85	11.36	12.08	14.68	0.00	0.00	0.02
Muses_DecisionTreeH0	5	61.32	30.12	32.49	15.71	17.26	20.19	0.00	3.77	0.04
Muses_DecisionTreeR0	5	43.67	36.63	38.40	9.96	12.22	13.71	0.00	0.01	5.71
PCC-Allegro	5	81.15	12.57	7.51	27.09	28.58	25.56	0.66	0.34	0.16
PCC-Expr	5	0.07	10.39	5.82	9.36	11.43	11.39	85.71	47.03	27.85
QUIC Cubic	5	71.82	23.99	18.29	45.71	46.80	44.69	1.69	2.33	2.64
SCReAM	5	0.21	0.21	0.19	7.88	7.93	7.26	0.00	0.00	2.87
Sprout	5	24.08	24.38	23.12	17.98	17.92	18.46	0.01	0.00	2.45
TaoVA-100x	5	8.93	6.89	4.17	10.16	11.01	10.36	86.34	86.58	82.48
TCP Vegas	5	55.18	41.44	41.71	17.78	15.85	12.50	0.30	0.01	0.01
Verus	5	49.55	31.87	28.16	44.34	45.71	44.40	31.74	33.02	30.86
PCC-Vivace	5	62.93	30.52	18.54	11.47	13.80	15.73	0.00	0.01	0.04
WebRTC media	5	0.05	0.05	0.05	10.47	10.59	10.12	8.02	0.00	0.01

```
Run 1: Statistics of TCP BBR

Start at: 2019-08-26 23:17:29
End at: 2019-08-26 23:17:59
Local clock offset: -1.86 ms
Remote clock offset: -1.584 ms


# Below is generated by plot.py at 2019-08-27 01:34:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.72 Mbit/s
95th percentile per-packet one-way delay: 44.602 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 56.12 Mbit/s
95th percentile per-packet one-way delay: 44.811 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 46.59 Mbit/s
95th percentile per-packet one-way delay: 43.714 ms
Loss rate: 2.87%
-- Flow 3:
Average throughput: 28.87 Mbit/s
95th percentile per-packet one-way delay: 45.710 ms
Loss rate: 2.36%
```
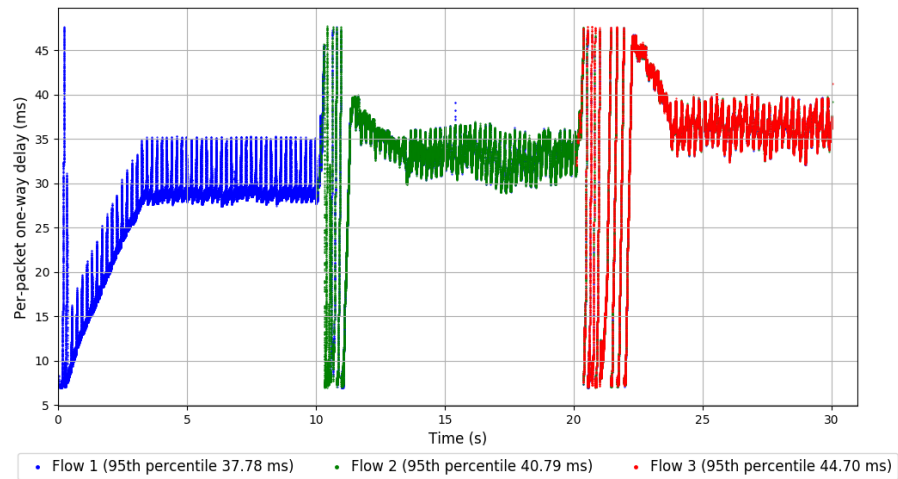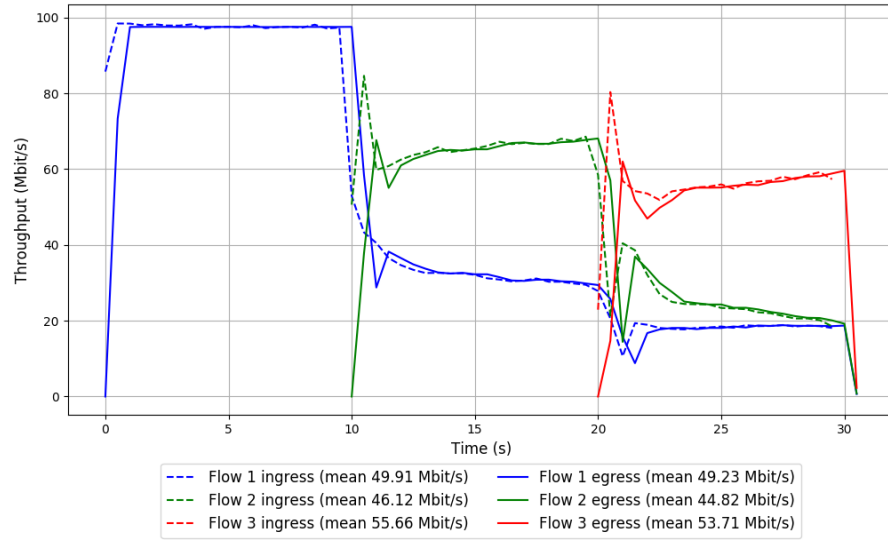
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 57.00 Mbit/s) — — — Flow 1 egress (mean 56.12 Mbit/s)
Flow 2 ingress (mean 47.98 Mbit/s) — — — Flow 2 egress (mean 46.59 Mbit/s)
Flow 3 ingress (mean 29.56 Mbit/s) — — — Flow 3 egress (mean 28.87 Mbit/s)

Flow 1 (95th percentile 44.81 ms)   Flow 2 (95th percentile 43.71 ms)   Flow 3 (95th percentile 45.71 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2019-08-26 23:45:31
End at: 2019-08-26 23:46:01
Local clock offset: -2.525 ms
Remote clock offset: -2.439 ms


# Below is generated by plot.py at 2019-08-27 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 44.086 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 49.79 Mbit/s
95th percentile per-packet one-way delay: 39.113 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 41.603 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 62.39 Mbit/s
95th percentile per-packet one-way delay: 46.098 ms
Loss rate: 2.82%
```

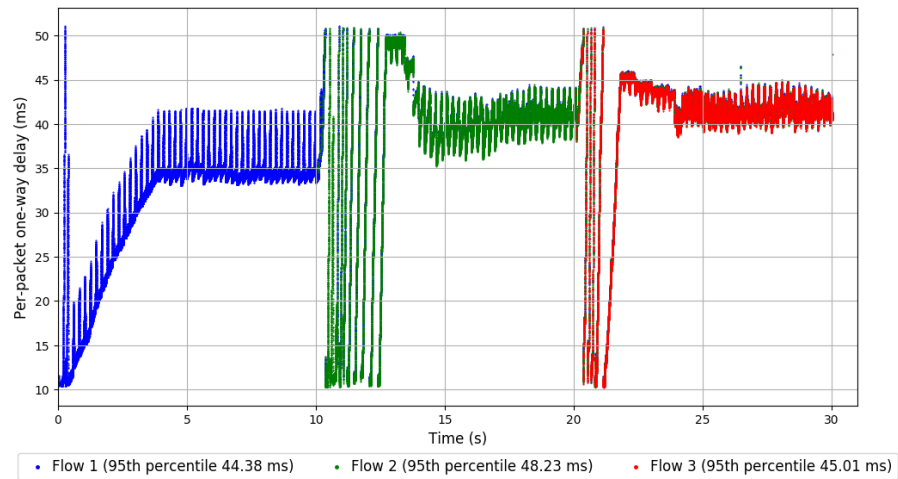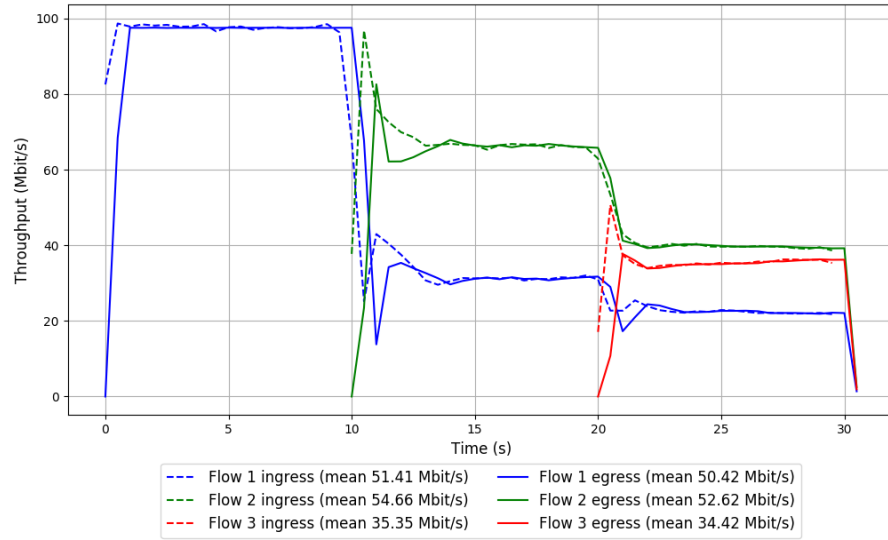Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-08-27 00:13:42
End at: 2019-08-27 00:14:12
Local clock offset: -2.581 ms
Remote clock offset: -2.153 ms


# Below is generated by plot.py at 2019-08-27 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.92 Mbit/s
95th percentile per-packet one-way delay: 40.687 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 37.782 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 40.791 ms
Loss rate: 2.77%
-- Flow 3:
Average throughput: 53.71 Mbit/s
95th percentile per-packet one-way delay: 44.703 ms
Loss rate: 3.44%
```
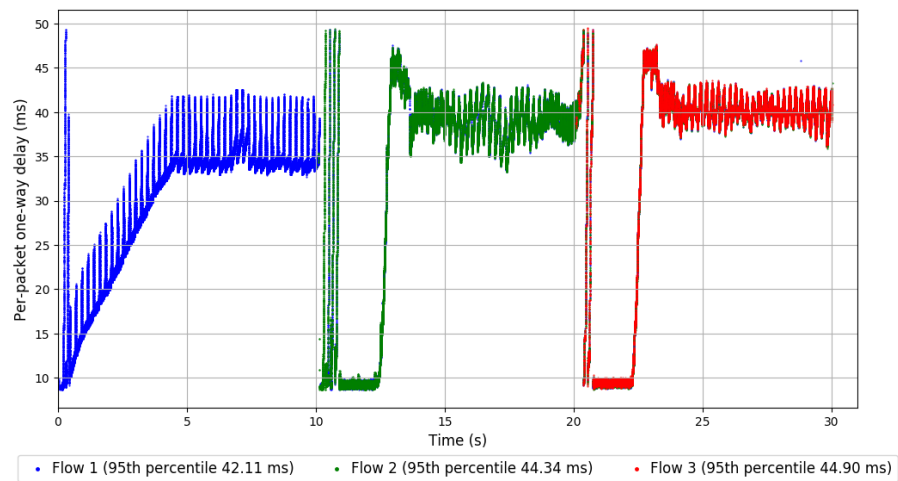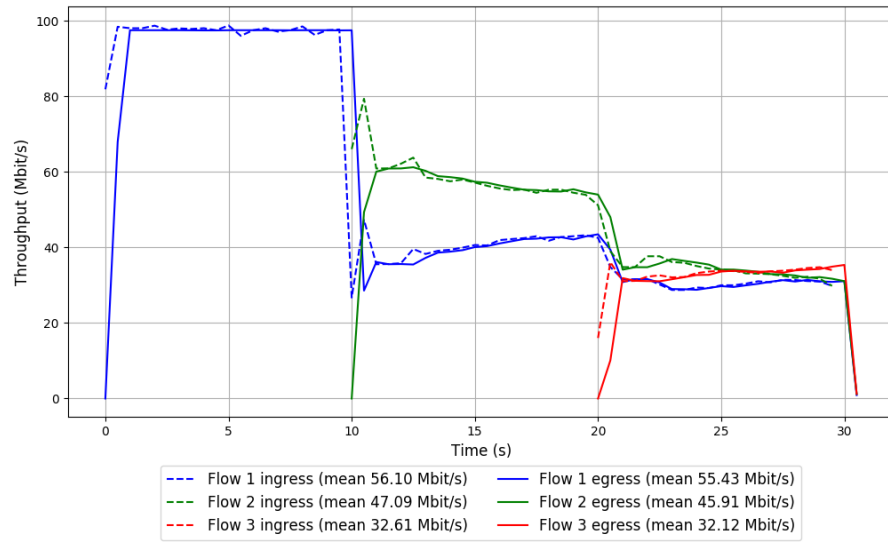
Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2019-08-27 00:41:45
End at: 2019-08-27 00:42:15
Local clock offset: -1.901 ms
Remote clock offset: -0.691 ms


# Below is generated by plot.py at 2019-08-27 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 45.802 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 50.42 Mbit/s
95th percentile per-packet one-way delay: 44.385 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 48.231 ms
Loss rate: 3.68%
-- Flow 3:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 45.012 ms
Loss rate: 2.70%
```
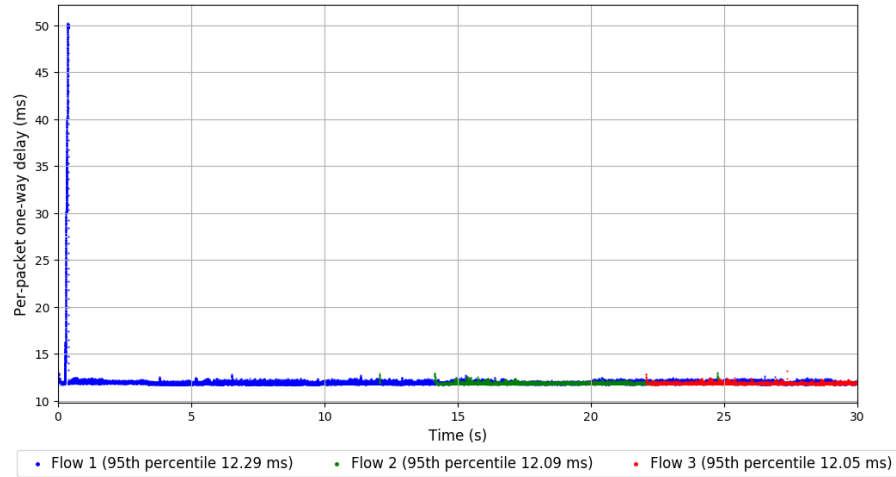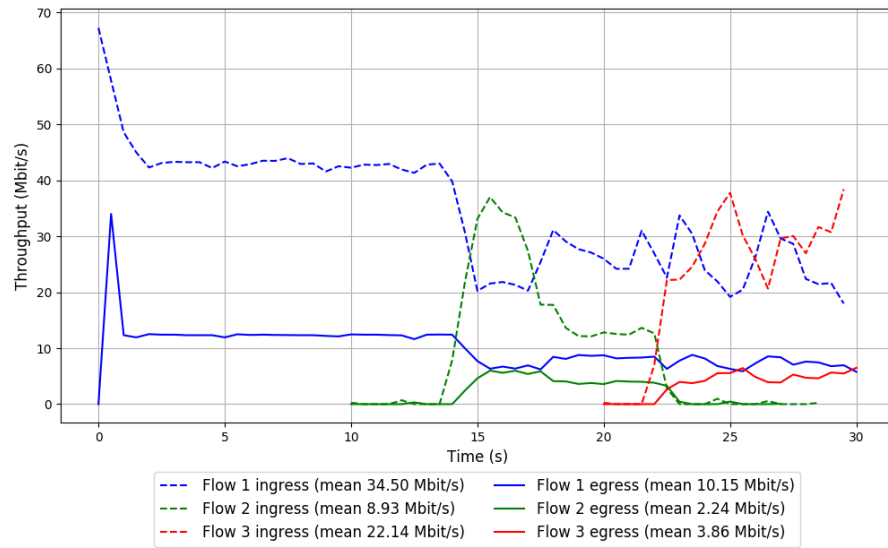
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 51.41 Mbit/s) --- Flow 1 egress (mean 50.42 Mbit/s)
Flow 2 ingress (mean 54.66 Mbit/s) --- Flow 2 egress (mean 52.62 Mbit/s)
Flow 3 ingress (mean 35.35 Mbit/s) --- Flow 3 egress (mean 34.42 Mbit/s)

Flow 1 (95th percentile 44.38 ms)   Flow 2 (95th percentile 48.23 ms)   Flow 3 (95th percentile 45.01 ms)

12

```
Run 5: Statistics of TCP BBR

Start at: 2019-08-27 01:10:12
End at: 2019-08-27 01:10:42
Local clock offset: -1.334 ms
Remote clock offset: -1.774 ms


# Below is generated by plot.py at 2019-08-27 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.64 Mbit/s
95th percentile per-packet one-way delay: 42.859 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 42.109 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 44.337 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 44.902 ms
Loss rate: 1.50%
```

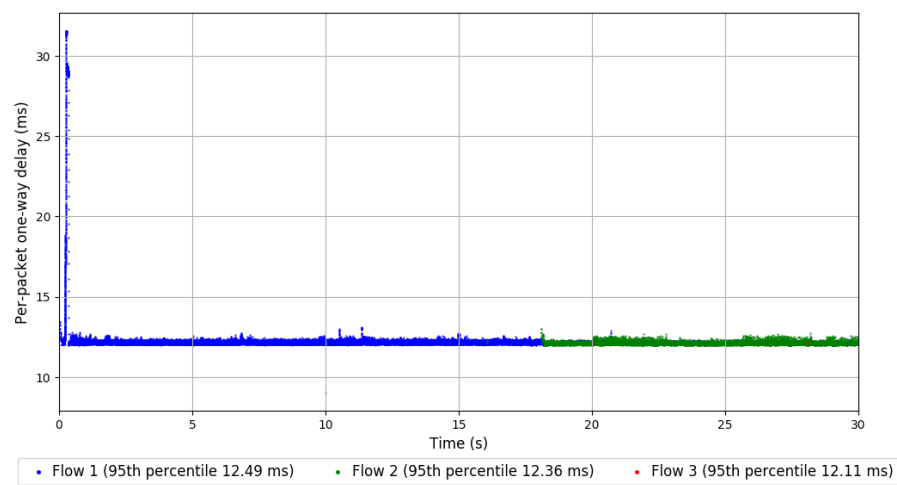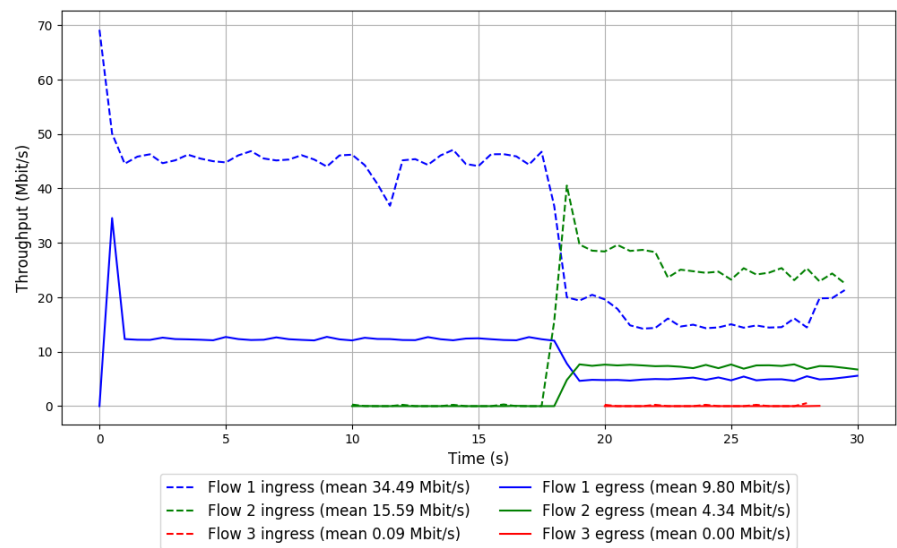Run 5: Report of TCP BBR — Data Link

```
Run 1: Statistics of Copa

Start at: 2019-08-26 23:27:55
End at: 2019-08-26 23:28:25
Local clock offset: -2.969 ms
Remote clock offset: -1.394 ms


# Below is generated by plot.py at 2019-08-27 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 12.247 ms
Loss rate: 73.28%
-- Flow 1:
Average throughput: 10.15 Mbit/s
95th percentile per-packet one-way delay: 12.288 ms
Loss rate: 70.60%
-- Flow 2:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 12.093 ms
Loss rate: 77.62%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 12.055 ms
Loss rate: 82.55%
```
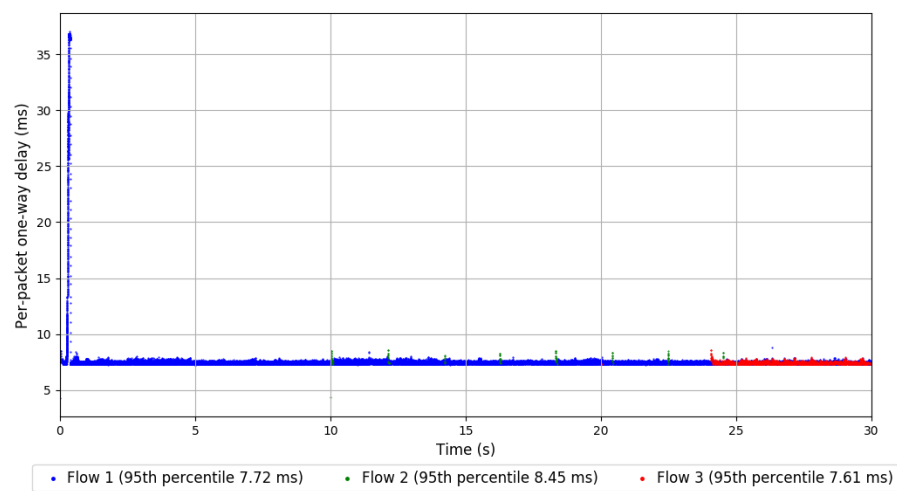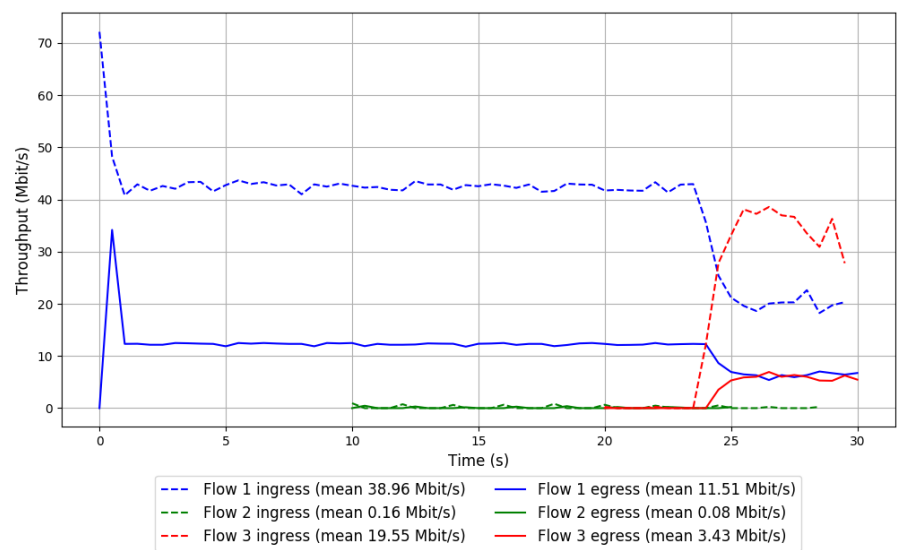
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 34.50 Mbit/s) --- Flow 1 egress (mean 10.15 Mbit/s)
Flow 2 ingress (mean 8.93 Mbit/s) --- Flow 2 egress (mean 2.24 Mbit/s)
Flow 3 ingress (mean 22.14 Mbit/s) --- Flow 3 egress (mean 3.86 Mbit/s)

Flow 1 (95th percentile 12.29 ms)   Flow 2 (95th percentile 12.09 ms)   Flow 3 (95th percentile 12.05 ms)

```
Run 2: Statistics of Copa

Start at: 2019-08-26 23:56:07
End at: 2019-08-26 23:56:37
Local clock offset: -2.458 ms
Remote clock offset: -0.244 ms


# Below is generated by plot.py at 2019-08-27 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 12.427 ms
Loss rate: 71.72%
-- Flow 1:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 12.486 ms
Loss rate: 71.58%
-- Flow 2:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 12.358 ms
Loss rate: 72.13%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 12.114 ms
Loss rate: 96.69%
```
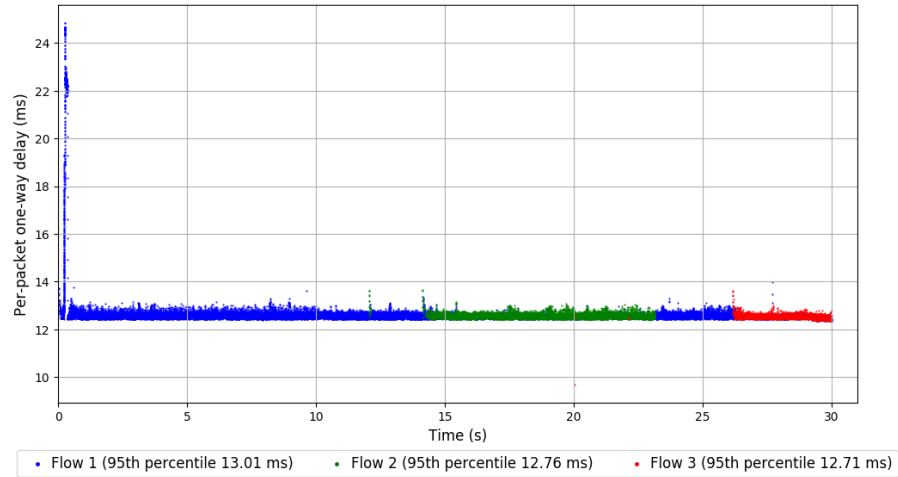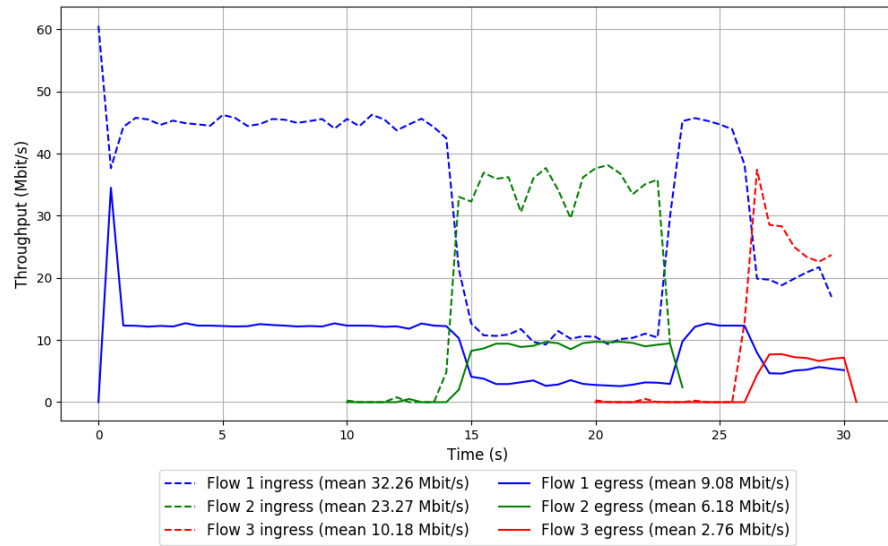
Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 34.49 Mbit/s) --- Flow 1 egress (mean 9.80 Mbit/s)
Flow 2 ingress (mean 15.59 Mbit/s) --- Flow 2 egress (mean 4.34 Mbit/s)
Flow 3 ingress (mean 0.09 Mbit/s) --- Flow 3 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 12.49 ms)   Flow 2 (95th percentile 12.36 ms)   Flow 3 (95th percentile 12.11 ms)
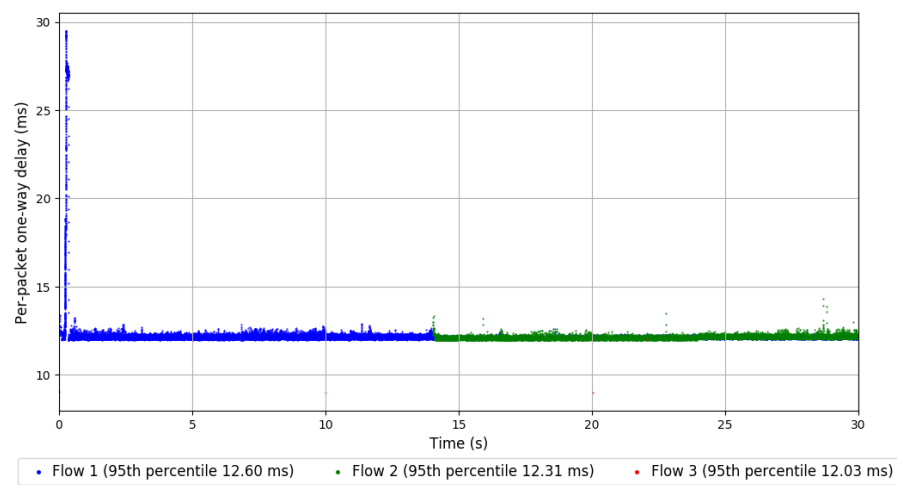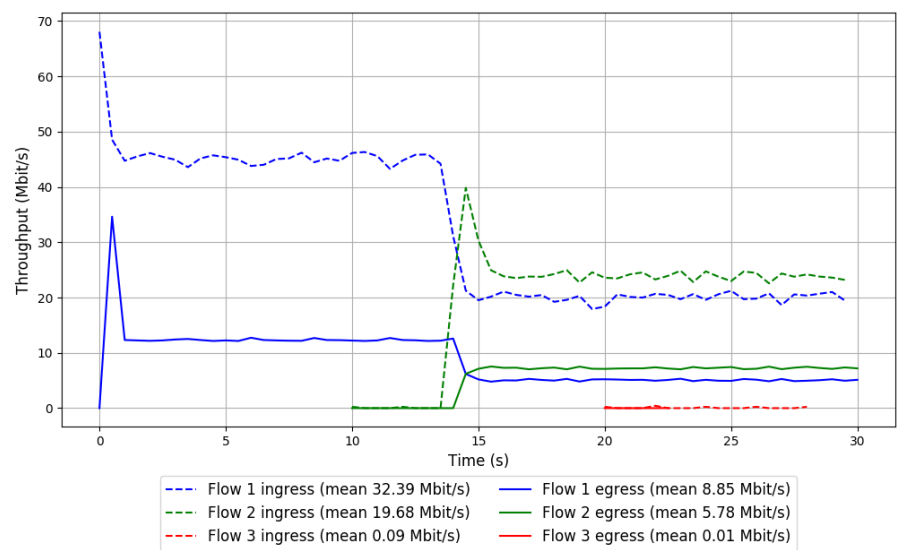
```
Run 3: Statistics of Copa

Start at: 2019-08-27 00:24:08
End at: 2019-08-27 00:24:38
Local clock offset: -0.499 ms
Remote clock offset: -3.041 ms


# Below is generated by plot.py at 2019-08-27 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 7.718 ms
Loss rate: 72.14%
-- Flow 1:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 7.725 ms
Loss rate: 70.45%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 8.445 ms
Loss rate: 60.85%
-- Flow 3:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 7.606 ms
Loss rate: 82.46%
```

Run 3: Report of Copa — Data Link

Legend (top plot):
- Flow 1 ingress (mean 38.96 Mbit/s)
- Flow 2 ingress (mean 0.16 Mbit/s)
- Flow 3 ingress (mean 19.55 Mbit/s)
- Flow 1 egress (mean 11.51 Mbit/s)
- Flow 2 egress (mean 0.08 Mbit/s)
- Flow 3 egress (mean 3.43 Mbit/s)

Legend (bottom plot):
- Flow 1 (95th percentile 7.72 ms)
- Flow 2 (95th percentile 8.45 ms)
- Flow 3 (95th percentile 7.61 ms)

```
Run 4: Statistics of Copa

Start at: 2019-08-27 00:52:33
End at: 2019-08-27 00:53:03
Local clock offset: -1.943 ms
Remote clock offset: 1.425 ms


# Below is generated by plot.py at 2019-08-27 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 12.887 ms
Loss rate: 72.29%
-- Flow 1:
Average throughput: 9.08 Mbit/s
95th percentile per-packet one-way delay: 13.008 ms
Loss rate: 71.85%
-- Flow 2:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 12.760 ms
Loss rate: 73.48%
-- Flow 3:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 12.712 ms
Loss rate: 72.89%
```
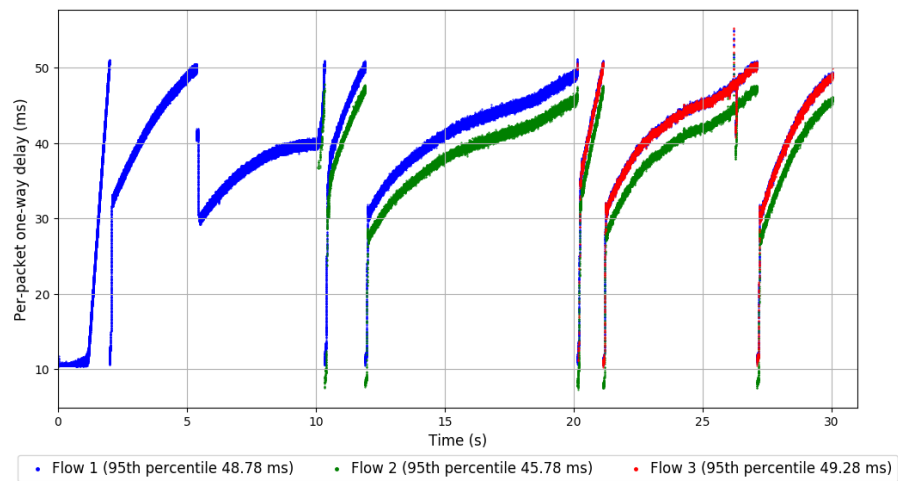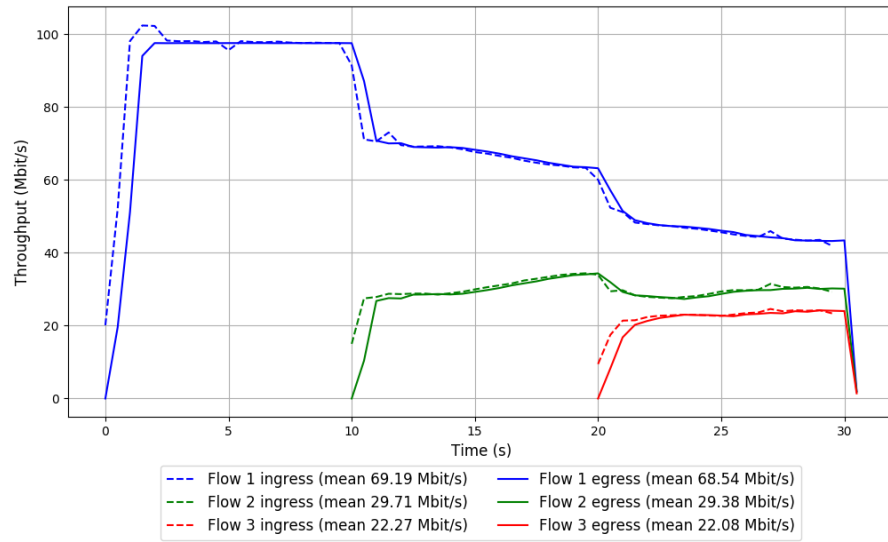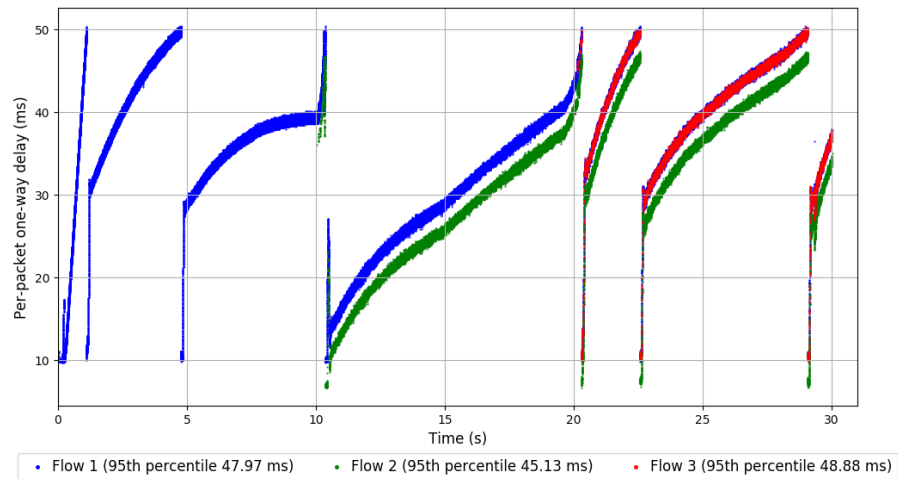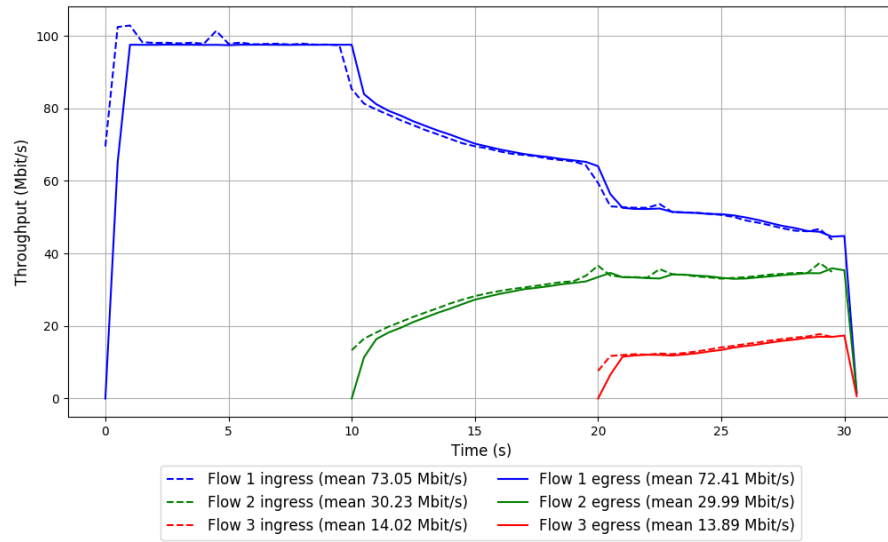
Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 32.26 Mbit/s) ------- Flow 1 egress (mean 9.08 Mbit/s) ———
Flow 2 ingress (mean 23.27 Mbit/s) ------- Flow 2 egress (mean 6.18 Mbit/s) ———
Flow 3 ingress (mean 10.18 Mbit/s) ------- Flow 3 egress (mean 2.76 Mbit/s) ———

• Flow 1 (95th percentile 13.01 ms)   • Flow 2 (95th percentile 12.76 ms)   • Flow 3 (95th percentile 12.71 ms)

```
Run 5: Statistics of Copa

Start at: 2019-08-27 01:20:45
End at: 2019-08-27 01:21:15
Local clock offset: -2.979 ms
Remote clock offset: -0.221 ms


# Below is generated by plot.py at 2019-08-27 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 12.432 ms
Loss rate: 72.11%
-- Flow 1:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 12.595 ms
Loss rate: 72.68%
-- Flow 2:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 12.312 ms
Loss rate: 70.64%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 12.032 ms
Loss rate: 98.13%
```

Run 5: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2019-08-26 23:11:42
End at: 2019-08-26 23:12:12
Local clock offset: -1.43 ms
Remote clock offset: -2.224 ms


# Below is generated by plot.py at 2019-08-27 01:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.42 Mbit/s
95th percentile per-packet one-way delay: 48.578 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 68.54 Mbit/s
95th percentile per-packet one-way delay: 48.777 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 45.782 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 22.08 Mbit/s
95th percentile per-packet one-way delay: 49.277 ms
Loss rate: 0.84%
```
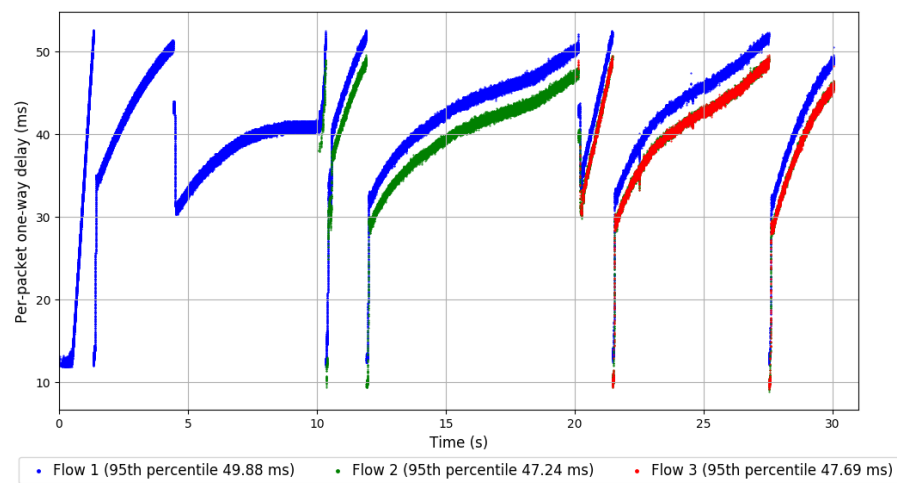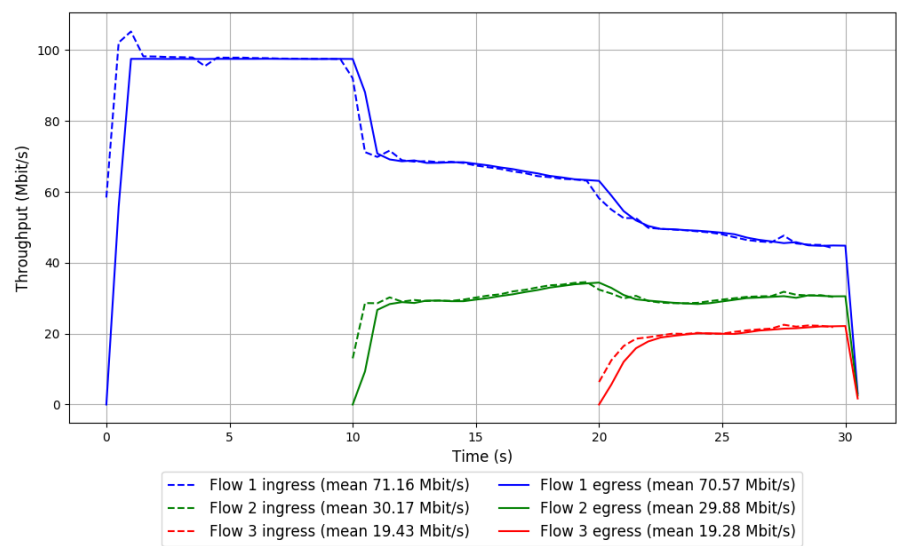
Run 1: Report of TCP Cubic — Data Link

- - - - Flow 1 ingress (mean 69.19 Mbit/s) —— Flow 1 egress (mean 68.54 Mbit/s)
- - - - Flow 2 ingress (mean 29.71 Mbit/s) —— Flow 2 egress (mean 29.38 Mbit/s)
- - - - Flow 3 ingress (mean 22.27 Mbit/s) —— Flow 3 egress (mean 22.08 Mbit/s)

- Flow 1 (95th percentile 48.78 ms)   • Flow 2 (95th percentile 45.78 ms)   • Flow 3 (95th percentile 49.28 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2019-08-26 23:39:44
End at: 2019-08-26 23:40:14
Local clock offset: -2.184 ms
Remote clock offset: -2.532 ms


# Below is generated by plot.py at 2019-08-27 01:34:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.97 Mbit/s
95th percentile per-packet one-way delay: 47.676 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 72.41 Mbit/s
95th percentile per-packet one-way delay: 47.974 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 29.99 Mbit/s
95th percentile per-packet one-way delay: 45.129 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 13.89 Mbit/s
95th percentile per-packet one-way delay: 48.882 ms
Loss rate: 1.01%
```
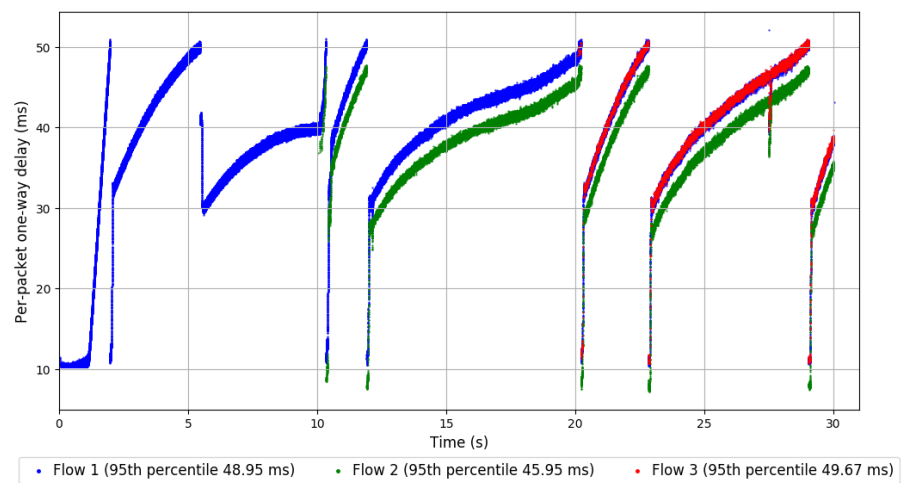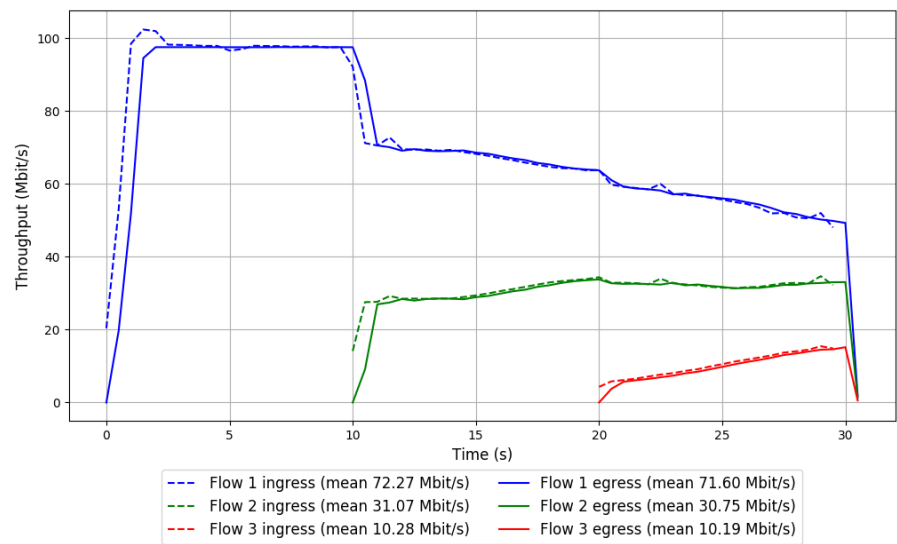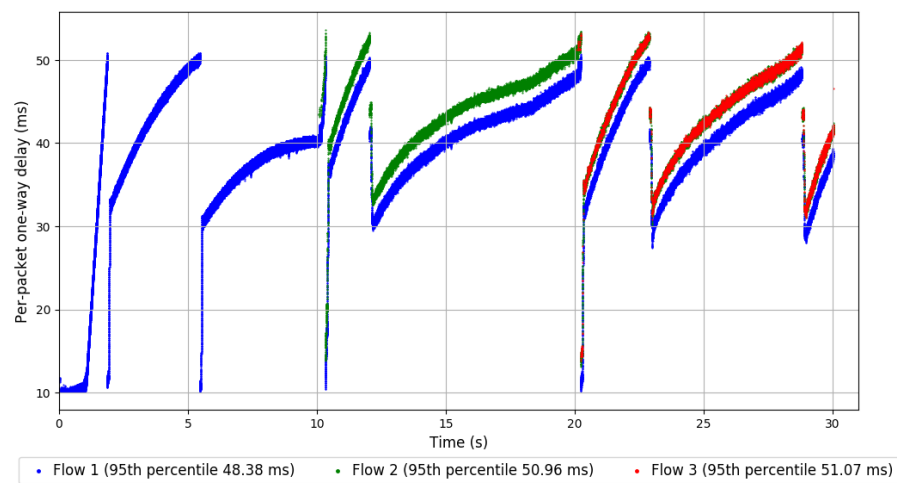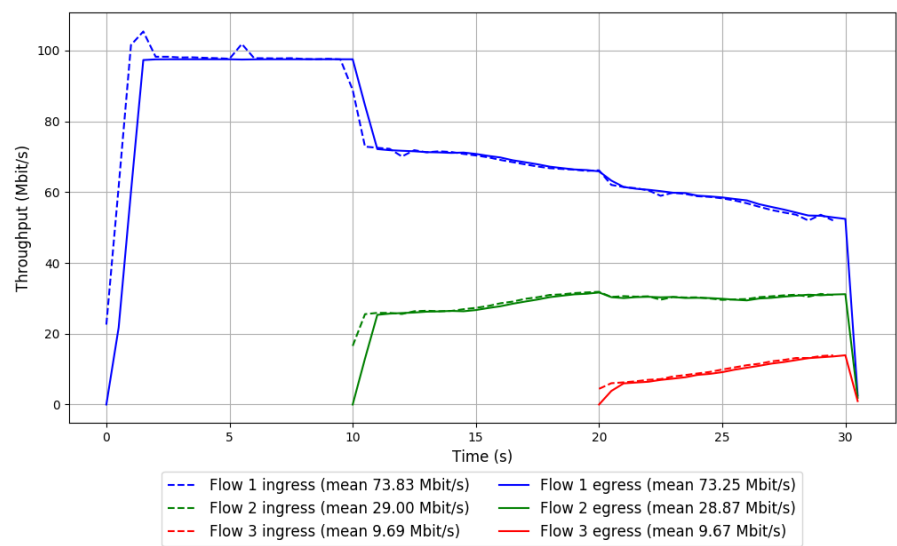
Run 2: Report of TCP Cubic — Data Link

- - - - Flow 1 ingress (mean 73.05 Mbit/s) ——— Flow 1 egress (mean 72.41 Mbit/s)
- - - - Flow 2 ingress (mean 30.23 Mbit/s) ——— Flow 2 egress (mean 29.99 Mbit/s)
- - - - Flow 3 ingress (mean 14.02 Mbit/s) ——— Flow 3 egress (mean 13.89 Mbit/s)

- Flow 1 (95th percentile 47.97 ms)   - Flow 2 (95th percentile 45.13 ms)   - Flow 3 (95th percentile 48.88 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 00:07:54
End at: 2019-08-27 00:08:24
Local clock offset: -3.35 ms
Remote clock offset: -1.044 ms


# Below is generated by plot.py at 2019-08-27 01:34:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 49.407 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 70.57 Mbit/s
95th percentile per-packet one-way delay: 49.882 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 29.88 Mbit/s
95th percentile per-packet one-way delay: 47.237 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 47.690 ms
Loss rate: 0.76%
```
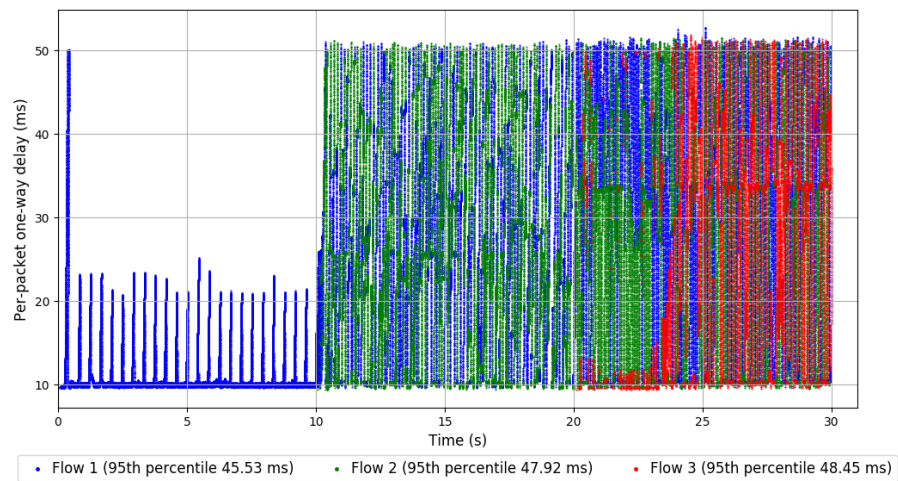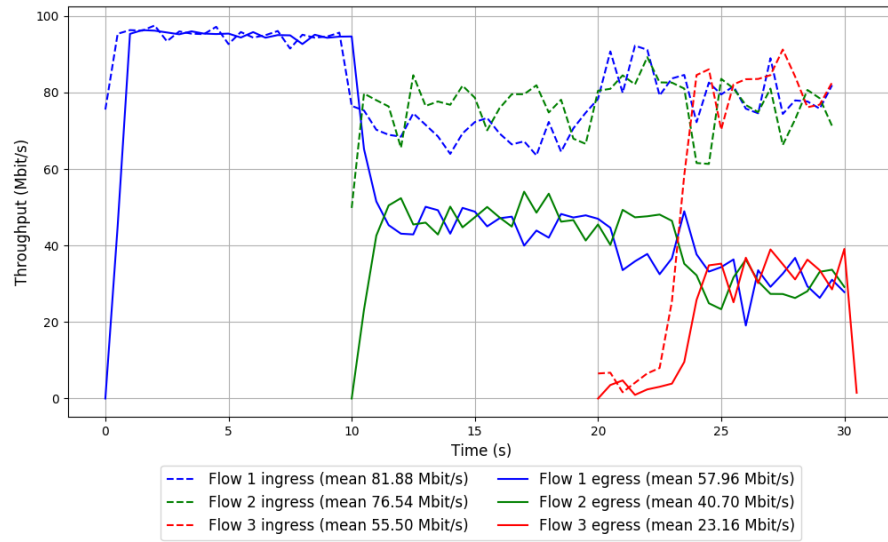
Run 3: Report of TCP Cubic — Data Link

- - - Flow 1 ingress (mean 71.16 Mbit/s)   —— Flow 1 egress (mean 70.57 Mbit/s)
- - - Flow 2 ingress (mean 30.17 Mbit/s)   —— Flow 2 egress (mean 29.88 Mbit/s)
- - - Flow 3 ingress (mean 19.43 Mbit/s)   —— Flow 3 egress (mean 19.28 Mbit/s)

• Flow 1 (95th percentile 49.88 ms)   • Flow 2 (95th percentile 47.24 ms)   • Flow 3 (95th percentile 47.69 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 00:35:57
End at: 2019-08-27 00:36:27
Local clock offset: -3.348 ms
Remote clock offset: -2.24 ms


# Below is generated by plot.py at 2019-08-27 01:35:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 48.700 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 71.60 Mbit/s
95th percentile per-packet one-way delay: 48.954 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 45.952 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 49.666 ms
Loss rate: 1.04%
```
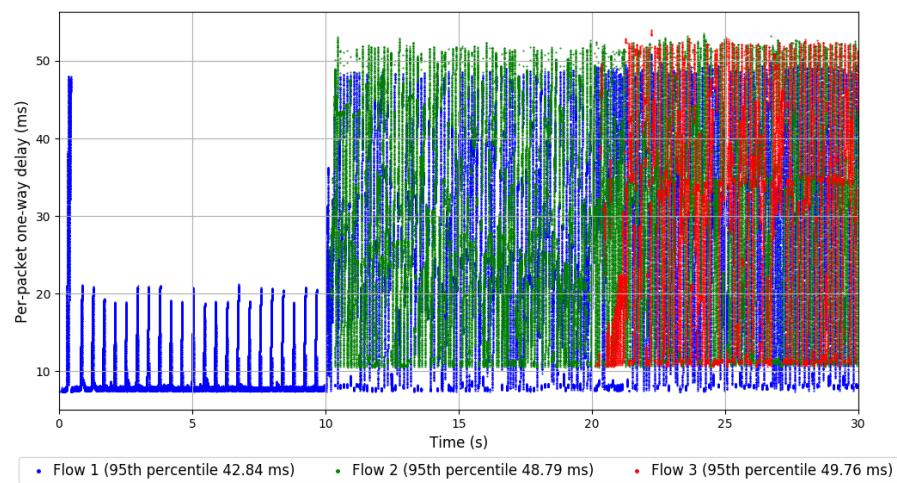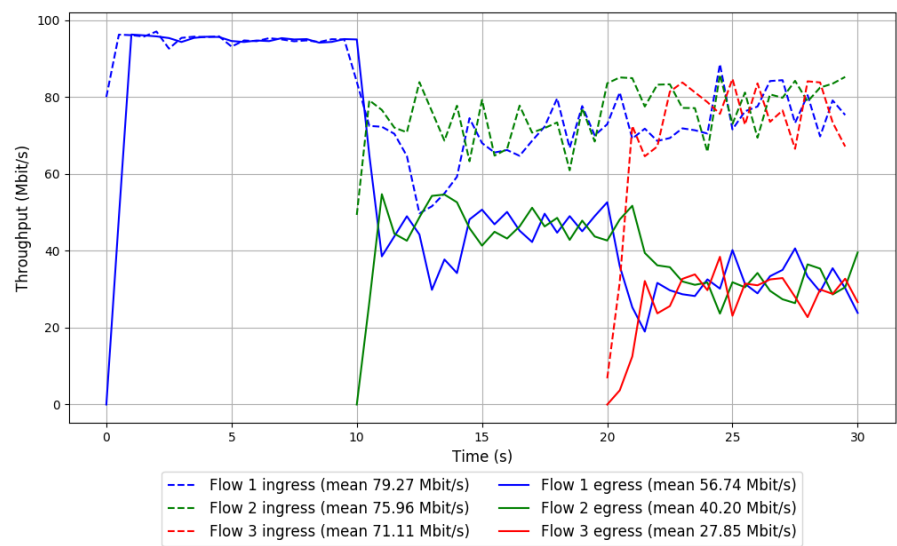
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 01:04:26
End at: 2019-08-27 01:04:56
Local clock offset: -4.134 ms
Remote clock offset: -0.048 ms


# Below is generated by plot.py at 2019-08-27 01:35:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 49.383 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 73.25 Mbit/s
95th percentile per-packet one-way delay: 48.376 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 28.87 Mbit/s
95th percentile per-packet one-way delay: 50.961 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 51.071 ms
Loss rate: 0.31%
```
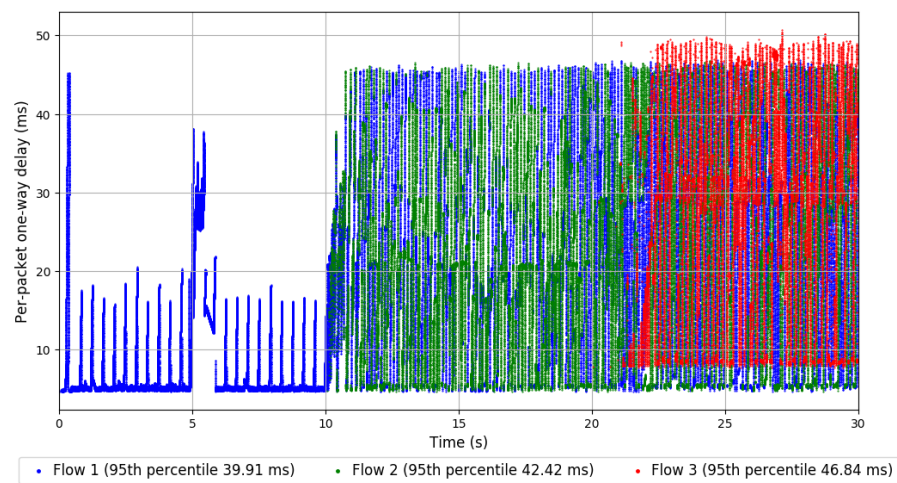
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 73.83 Mbit/s) --- Flow 1 egress (mean 73.25 Mbit/s)
Flow 2 ingress (mean 29.00 Mbit/s) --- Flow 2 egress (mean 28.87 Mbit/s)
Flow 3 ingress (mean 9.69 Mbit/s) --- Flow 3 egress (mean 9.67 Mbit/s)

Flow 1 (95th percentile 48.38 ms)   Flow 2 (95th percentile 50.96 ms)   Flow 3 (95th percentile 51.07 ms)
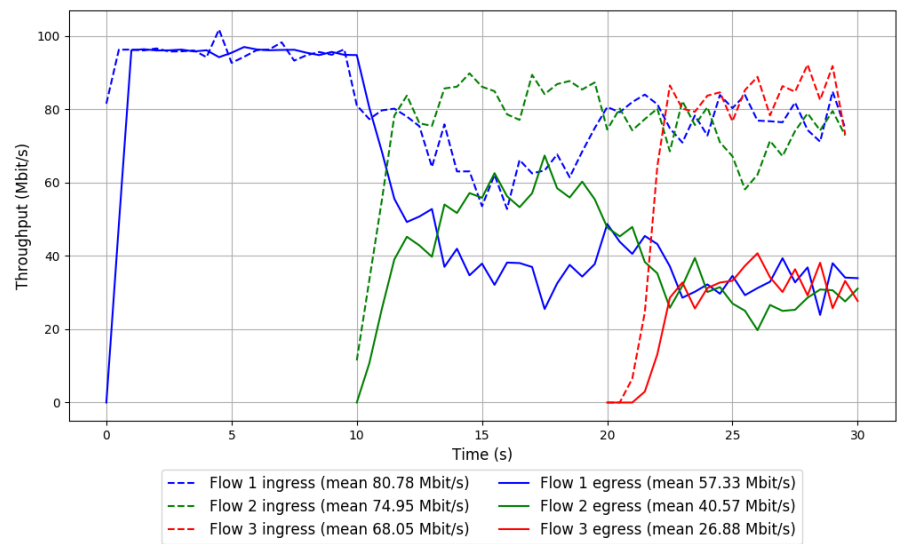
```
Run 1: Statistics of FillP

Start at: 2019-08-26 23:33:47
End at: 2019-08-26 23:34:17
Local clock offset: -2.497 ms
Remote clock offset: -3.016 ms


# Below is generated by plot.py at 2019-08-27 01:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.62 Mbit/s
95th percentile per-packet one-way delay: 46.788 ms
Loss rate: 38.69%
-- Flow 1:
Average throughput: 57.96 Mbit/s
95th percentile per-packet one-way delay: 45.530 ms
Loss rate: 29.21%
-- Flow 2:
Average throughput: 40.70 Mbit/s
95th percentile per-packet one-way delay: 47.919 ms
Loss rate: 46.87%
-- Flow 3:
Average throughput: 23.16 Mbit/s
95th percentile per-packet one-way delay: 48.451 ms
Loss rate: 58.27%
```
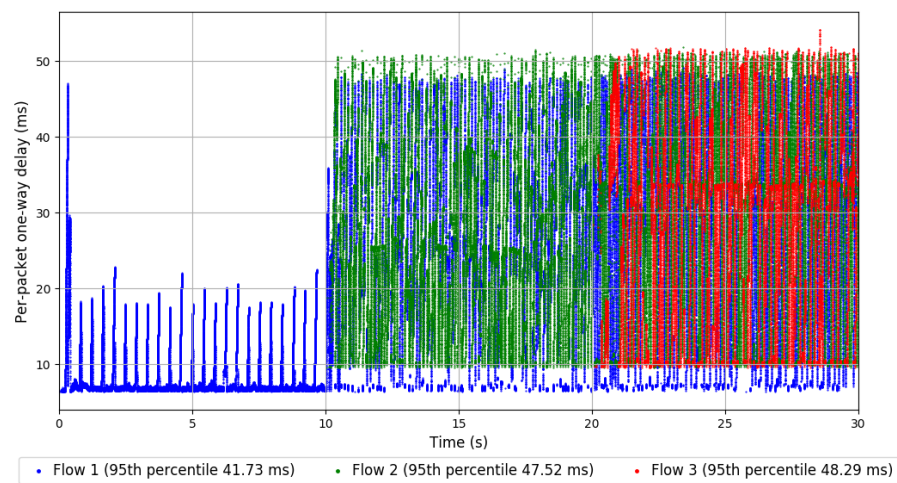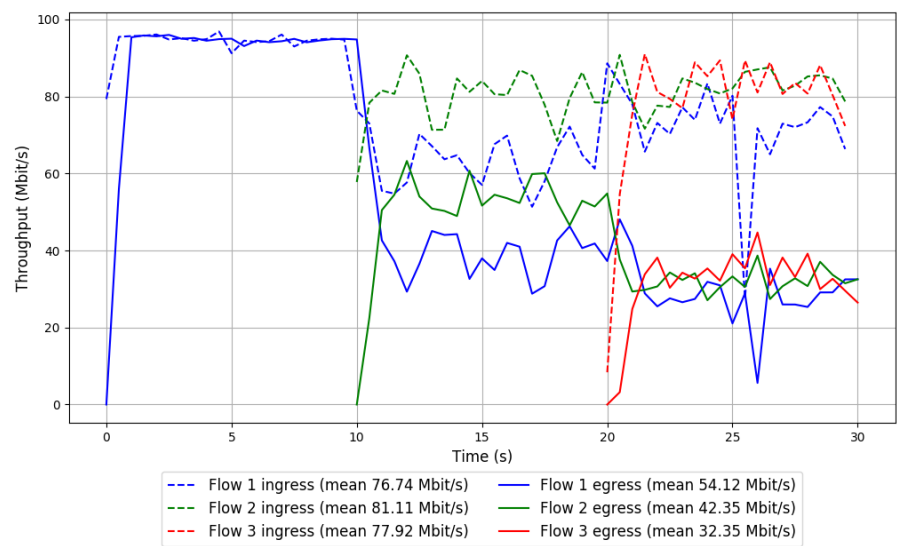
Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 81.88 Mbit/s) --- Flow 1 egress (mean 57.96 Mbit/s)
Flow 2 ingress (mean 76.54 Mbit/s) --- Flow 2 egress (mean 40.70 Mbit/s)
Flow 3 ingress (mean 55.50 Mbit/s) --- Flow 3 egress (mean 23.16 Mbit/s)

Flow 1 (95th percentile 45.53 ms)   Flow 2 (95th percentile 47.92 ms)   Flow 3 (95th percentile 48.45 ms)

```
Run 2: Statistics of FillP

Start at: 2019-08-27 00:01:59
End at: 2019-08-27 00:02:29
Local clock offset: -3.588 ms
Remote clock offset: -2.611 ms


# Below is generated by plot.py at 2019-08-27 01:35:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.61 Mbit/s
95th percentile per-packet one-way delay: 46.424 ms
Loss rate: 39.59%
-- Flow 1:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 42.836 ms
Loss rate: 28.50%
-- Flow 2:
Average throughput: 40.20 Mbit/s
95th percentile per-packet one-way delay: 48.792 ms
Loss rate: 47.08%
-- Flow 3:
Average throughput: 27.85 Mbit/s
95th percentile per-packet one-way delay: 49.757 ms
Loss rate: 60.82%
```
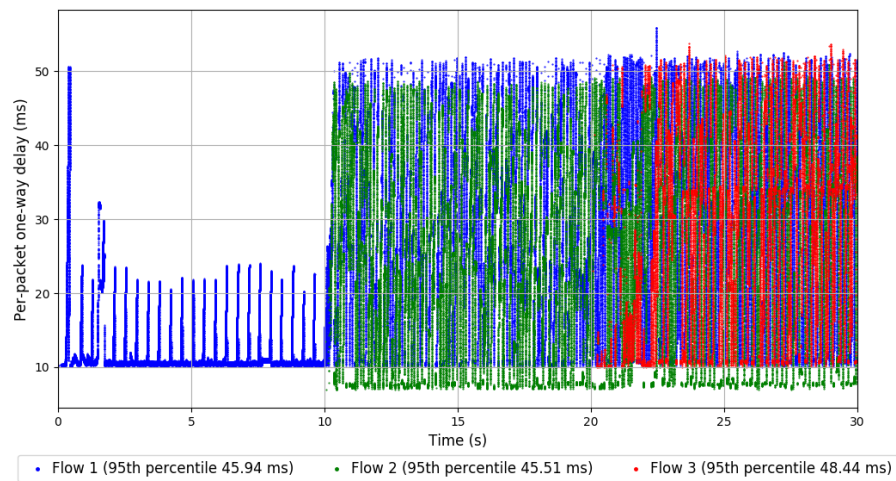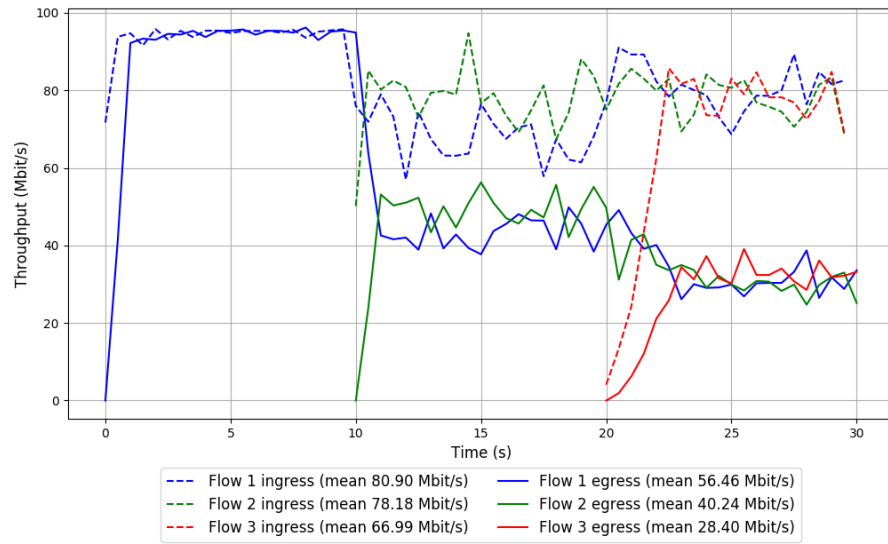
Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 79.27 Mbit/s)   Flow 1 egress (mean 56.74 Mbit/s)
Flow 2 ingress (mean 75.96 Mbit/s)   Flow 2 egress (mean 40.20 Mbit/s)
Flow 3 ingress (mean 71.11 Mbit/s)   Flow 3 egress (mean 27.85 Mbit/s)

Flow 1 (95th percentile 42.84 ms)   Flow 2 (95th percentile 48.79 ms)   Flow 3 (95th percentile 49.76 ms)

```
Run 3: Statistics of FillP

Start at: 2019-08-27 00:29:58
End at: 2019-08-27 00:30:28
Local clock offset: -0.262 ms
Remote clock offset: -2.167 ms


# Below is generated by plot.py at 2019-08-27 01:35:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.21 Mbit/s
95th percentile per-packet one-way delay: 42.222 ms
Loss rate: 39.15%
-- Flow 1:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 39.911 ms
Loss rate: 29.03%
-- Flow 2:
Average throughput: 40.57 Mbit/s
95th percentile per-packet one-way delay: 42.425 ms
Loss rate: 45.89%
-- Flow 3:
Average throughput: 26.88 Mbit/s
95th percentile per-packet one-way delay: 46.838 ms
Loss rate: 60.51%
```
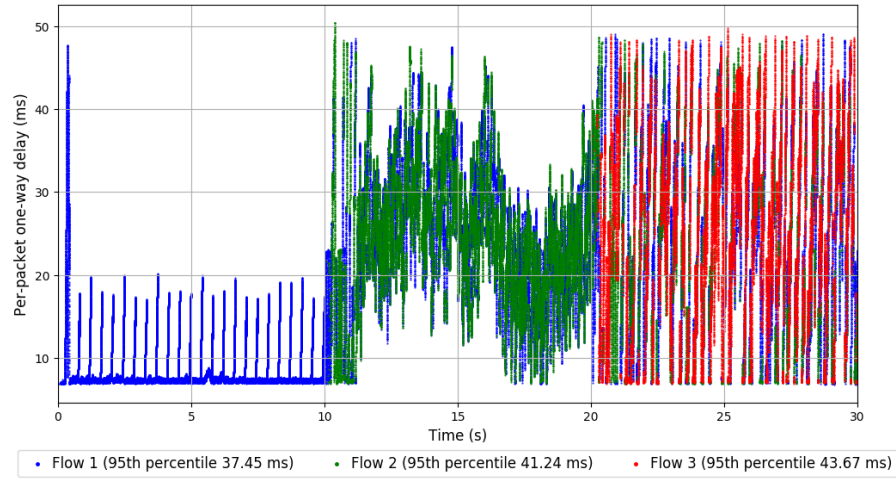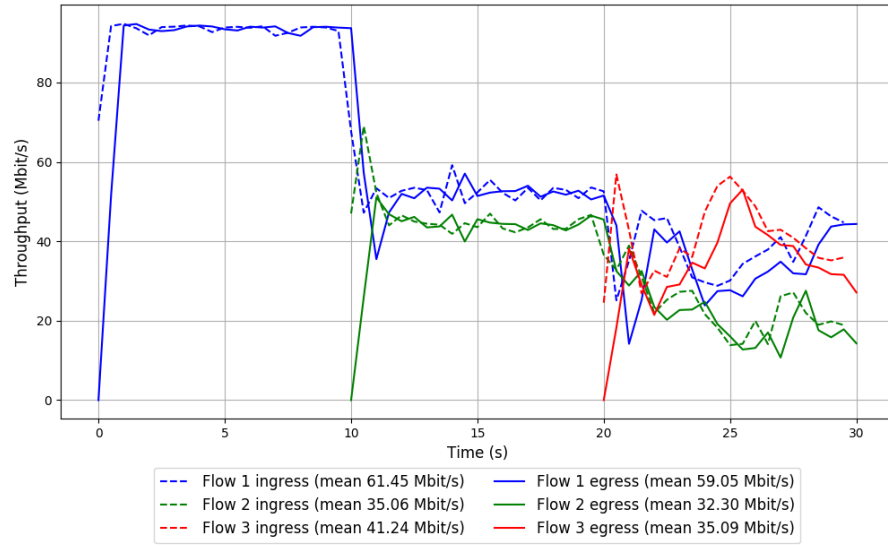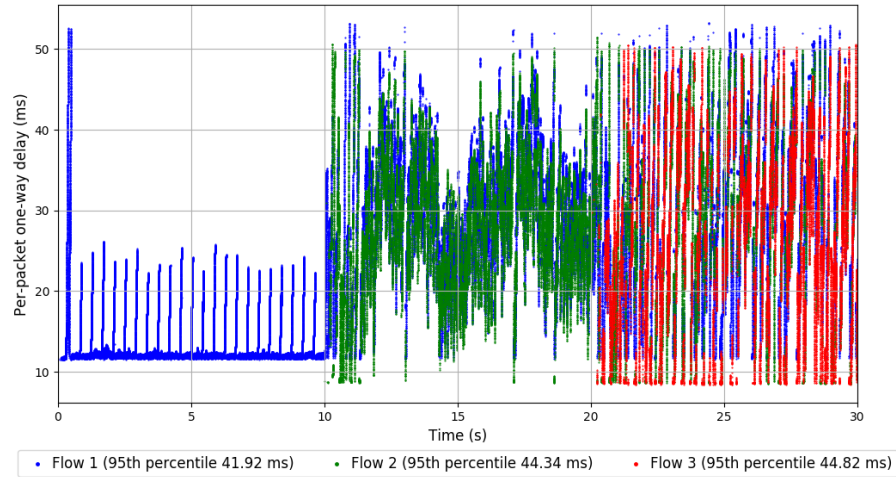
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 80.78 Mbit/s)   Flow 1 egress (mean 57.33 Mbit/s)
Flow 2 ingress (mean 74.95 Mbit/s)   Flow 2 egress (mean 40.57 Mbit/s)
Flow 3 ingress (mean 68.05 Mbit/s)   Flow 3 egress (mean 26.88 Mbit/s)

Flow 1 (95th percentile 39.91 ms)   Flow 2 (95th percentile 42.42 ms)   Flow 3 (95th percentile 46.84 ms)

40

```
Run 4: Statistics of FillP

Start at: 2019-08-27 00:58:30
End at: 2019-08-27 00:59:00
Local clock offset: -0.603 ms
Remote clock offset: 0.048 ms


# Below is generated by plot.py at 2019-08-27 01:35:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.93 Mbit/s
95th percentile per-packet one-way delay: 45.455 ms
Loss rate: 40.62%
-- Flow 1:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 41.727 ms
Loss rate: 29.57%
-- Flow 2:
Average throughput: 42.35 Mbit/s
95th percentile per-packet one-way delay: 47.524 ms
Loss rate: 47.80%
-- Flow 3:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 48.294 ms
Loss rate: 58.43%
```
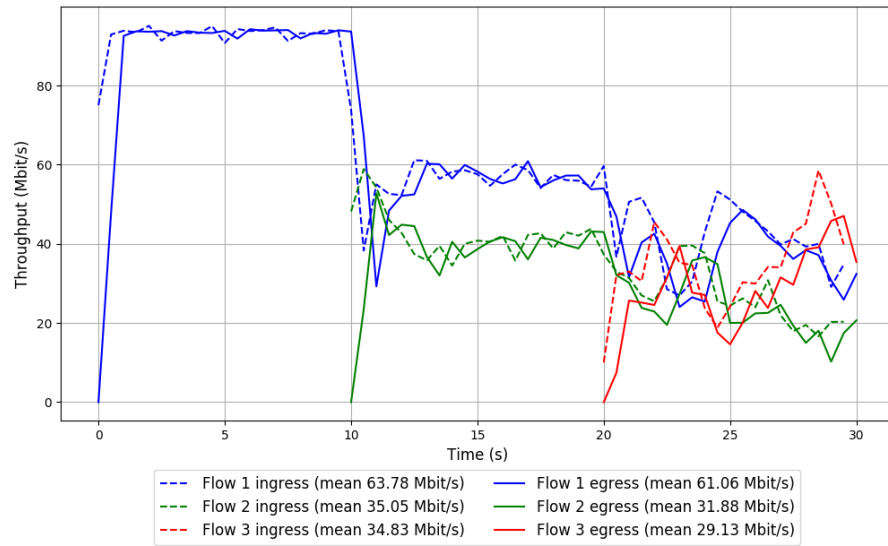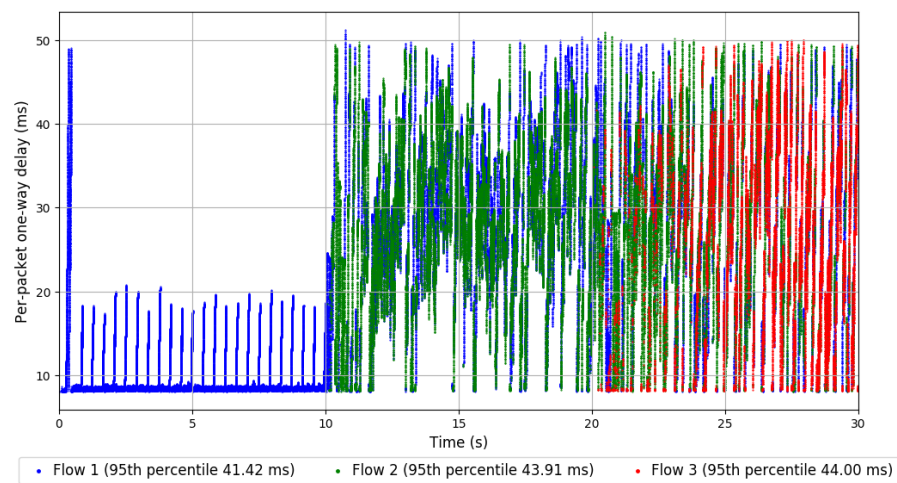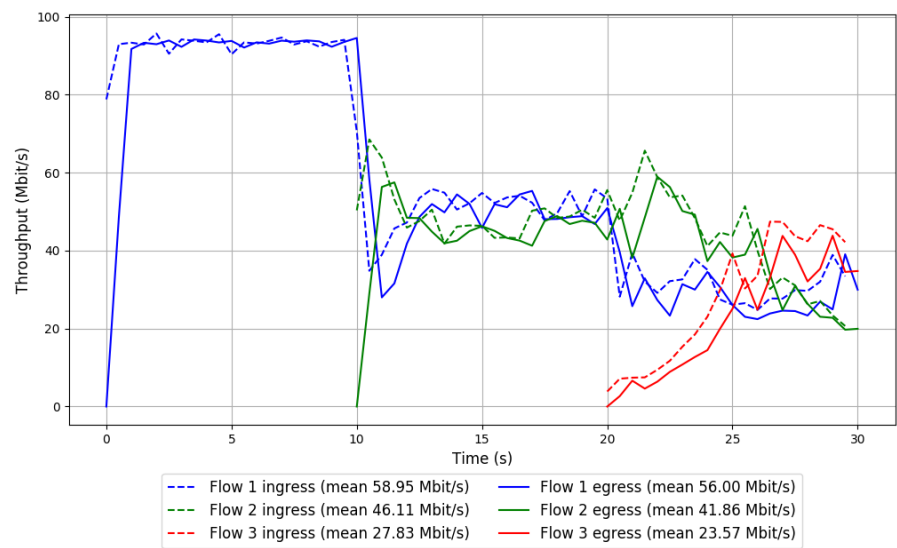
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 76.74 Mbit/s)   Flow 1 egress (mean 54.12 Mbit/s)
Flow 2 ingress (mean 81.11 Mbit/s)   Flow 2 egress (mean 42.35 Mbit/s)
Flow 3 ingress (mean 77.92 Mbit/s)   Flow 3 egress (mean 32.35 Mbit/s)

Flow 1 (95th percentile 41.73 ms)   Flow 2 (95th percentile 47.52 ms)   Flow 3 (95th percentile 48.29 ms)

```
Run 5: Statistics of FillP

Start at: 2019-08-27 01:26:40
End at: 2019-08-27 01:27:10
Local clock offset: -0.849 ms
Remote clock offset: 0.535 ms


# Below is generated by plot.py at 2019-08-27 01:36:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 46.120 ms
Loss rate: 40.29%
-- Flow 1:
Average throughput: 56.46 Mbit/s
95th percentile per-packet one-way delay: 45.941 ms
Loss rate: 30.21%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 45.505 ms
Loss rate: 48.55%
-- Flow 3:
Average throughput: 28.40 Mbit/s
95th percentile per-packet one-way delay: 48.436 ms
Loss rate: 57.68%
```
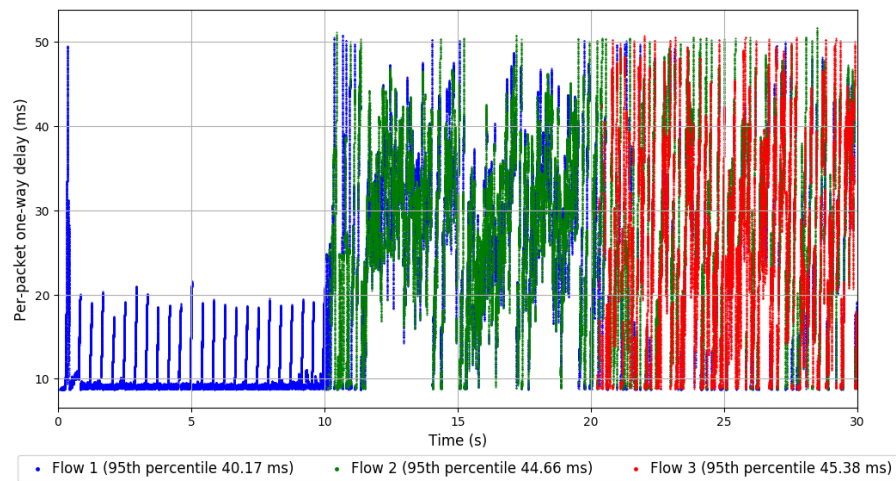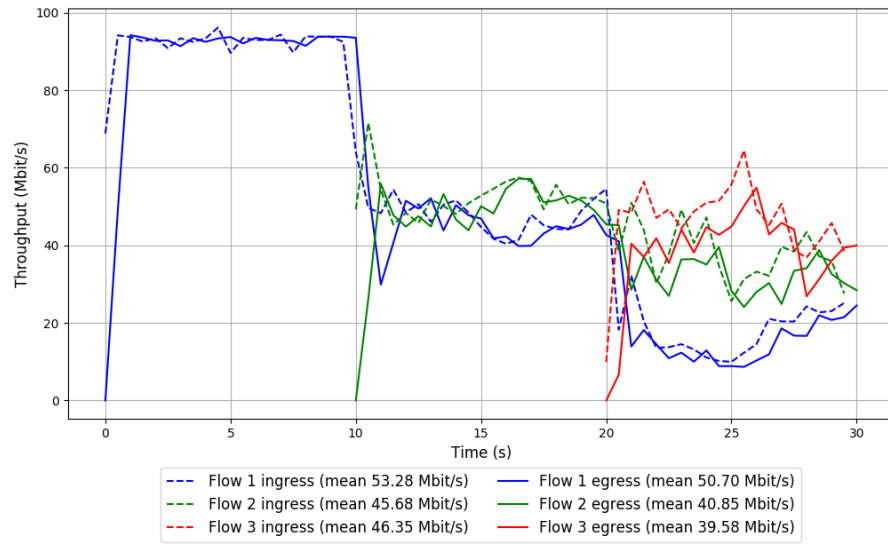
Run 5: Report of FillP — Data Link

Legend:
- - - - Flow 1 ingress (mean 80.90 Mbit/s) ——— Flow 1 egress (mean 56.46 Mbit/s)
- - - - Flow 2 ingress (mean 78.18 Mbit/s) ——— Flow 2 egress (mean 40.24 Mbit/s)
- - - - Flow 3 ingress (mean 66.99 Mbit/s) ——— Flow 3 egress (mean 28.40 Mbit/s)

- Flow 1 (95th percentile 45.94 ms)   • Flow 2 (95th percentile 45.51 ms)   • Flow 3 (95th percentile 48.44 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-08-26 23:32:37
End at: 2019-08-26 23:33:07
Local clock offset: -1.93 ms
Remote clock offset: -1.926 ms


# Below is generated by plot.py at 2019-08-27 01:36:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 40.107 ms
Loss rate: 6.38%
-- Flow 1:
Average throughput: 59.05 Mbit/s
95th percentile per-packet one-way delay: 37.450 ms
Loss rate: 3.87%
-- Flow 2:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 41.244 ms
Loss rate: 7.85%
-- Flow 3:
Average throughput: 35.09 Mbit/s
95th percentile per-packet one-way delay: 43.671 ms
Loss rate: 15.15%
```

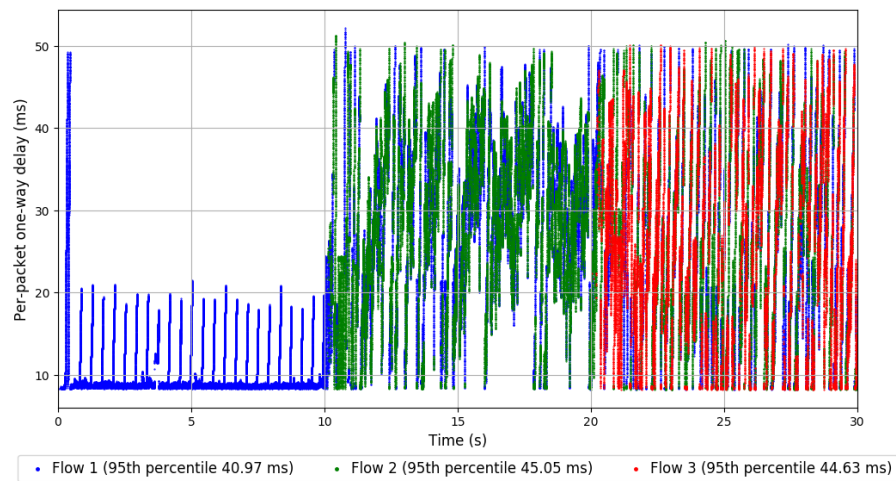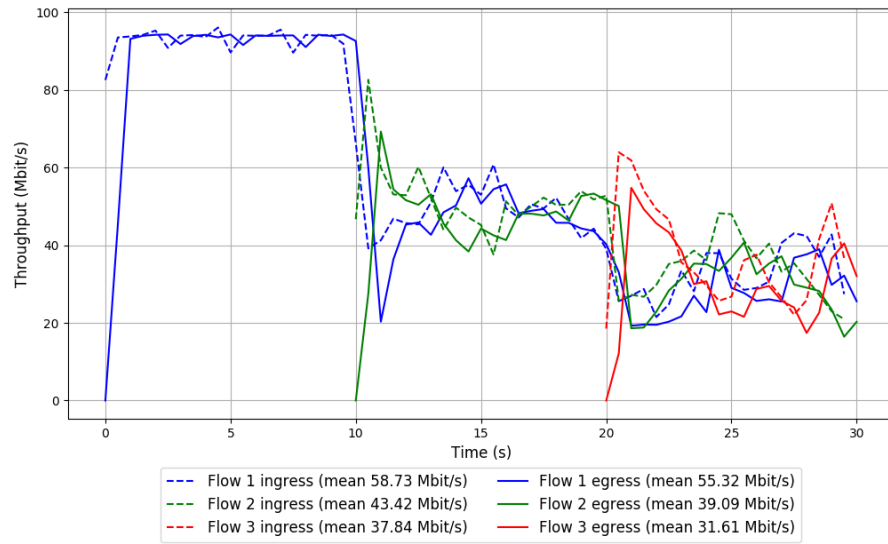Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 00:00:48
End at: 2019-08-27 00:01:18
Local clock offset: -2.49 ms
Remote clock offset: -0.463 ms


# Below is generated by plot.py at 2019-08-27 01:36:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.95 Mbit/s
95th percentile per-packet one-way delay: 43.102 ms
Loss rate: 6.81%
-- Flow 1:
Average throughput: 61.06 Mbit/s
95th percentile per-packet one-way delay: 41.920 ms
Loss rate: 4.24%
-- Flow 2:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 44.339 ms
Loss rate: 9.07%
-- Flow 3:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 44.820 ms
Loss rate: 16.44%
```

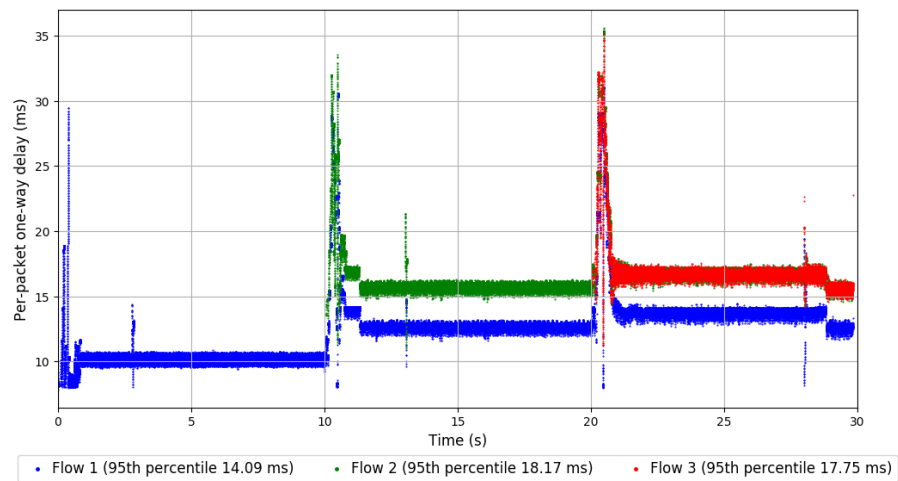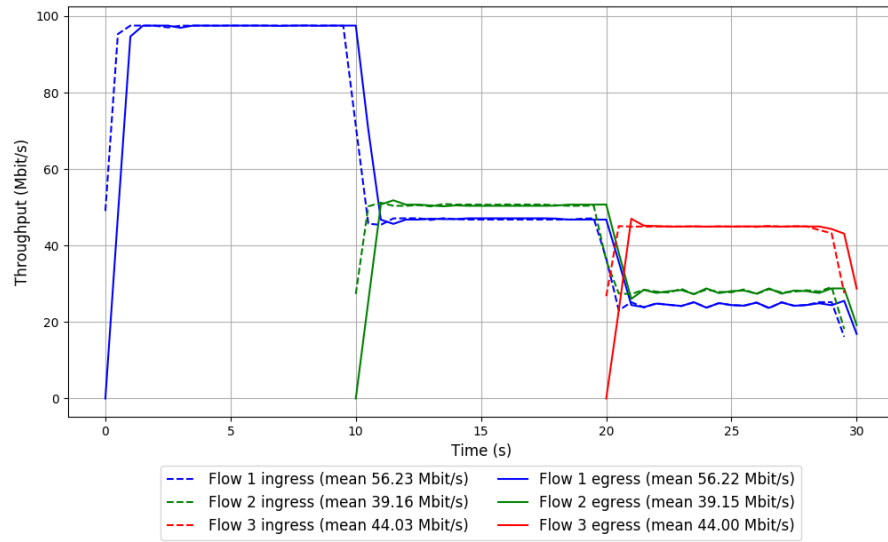Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 00:28:48
End at: 2019-08-27 00:29:18
Local clock offset: -2.653 ms
Remote clock offset: -1.278 ms


# Below is generated by plot.py at 2019-08-27 01:36:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.60 Mbit/s
95th percentile per-packet one-way delay: 42.649 ms
Loss rate: 7.24%
-- Flow 1:
Average throughput: 56.00 Mbit/s
95th percentile per-packet one-way delay: 41.419 ms
Loss rate: 4.89%
-- Flow 2:
Average throughput: 41.86 Mbit/s
95th percentile per-packet one-way delay: 43.910 ms
Loss rate: 9.25%
-- Flow 3:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 44.001 ms
Loss rate: 15.53%
```

Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 58.95 Mbit/s) --- Flow 1 egress (mean 56.00 Mbit/s)
Flow 2 ingress (mean 46.11 Mbit/s) --- Flow 2 egress (mean 41.86 Mbit/s)
Flow 3 ingress (mean 27.83 Mbit/s) --- Flow 3 egress (mean 23.57 Mbit/s)

Flow 1 (95th percentile 41.42 ms)   Flow 2 (95th percentile 43.91 ms)   Flow 3 (95th percentile 44.00 ms)

50

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 00:57:19
End at: 2019-08-27 00:57:49
Local clock offset: -1.234 ms
Remote clock offset: -1.351 ms


# Below is generated by plot.py at 2019-08-27 01:36:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 43.175 ms
Loss rate: 8.11%
-- Flow 1:
Average throughput: 50.70 Mbit/s
95th percentile per-packet one-way delay: 40.172 ms
Loss rate: 4.83%
-- Flow 2:
Average throughput: 40.85 Mbit/s
95th percentile per-packet one-way delay: 44.659 ms
Loss rate: 10.56%
-- Flow 3:
Average throughput: 39.58 Mbit/s
95th percentile per-packet one-way delay: 45.377 ms
Loss rate: 14.64%
```

Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 01:25:28
End at: 2019-08-27 01:25:58
Local clock offset: -0.02 ms
Remote clock offset: -0.517 ms


# Below is generated by plot.py at 2019-08-27 01:36:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.80 Mbit/s
95th percentile per-packet one-way delay: 43.152 ms
Loss rate: 8.35%
-- Flow 1:
Average throughput: 55.32 Mbit/s
95th percentile per-packet one-way delay: 40.973 ms
Loss rate: 5.80%
-- Flow 2:
Average throughput: 39.09 Mbit/s
95th percentile per-packet one-way delay: 45.055 ms
Loss rate: 9.96%
-- Flow 3:
Average throughput: 31.61 Mbit/s
95th percentile per-packet one-way delay: 44.633 ms
Loss rate: 16.55%
```

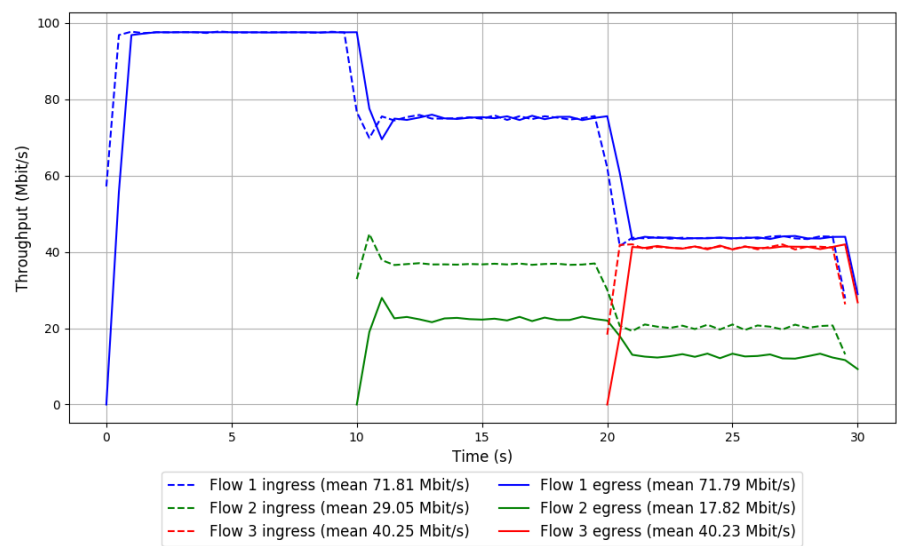Run 5: Report of FillP-Sheep — Data Link

```
Run 1: Statistics of Indigo

Start at: 2019-08-26 23:14:00
End at: 2019-08-26 23:14:30
Local clock offset: -1.713 ms
Remote clock offset: -1.678 ms


# Below is generated by plot.py at 2019-08-27 01:36:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 17.164 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.22 Mbit/s
95th percentile per-packet one-way delay: 14.092 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 18.169 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.00 Mbit/s
95th percentile per-packet one-way delay: 17.752 ms
Loss rate: 0.03%
```
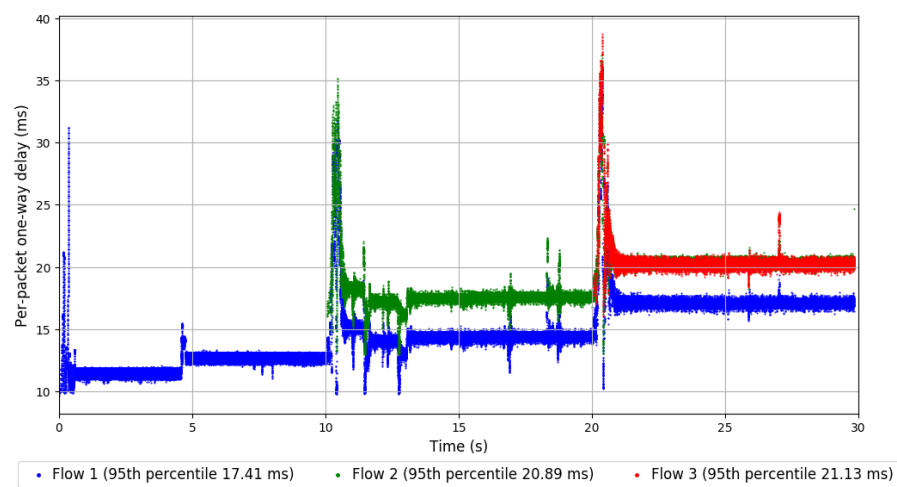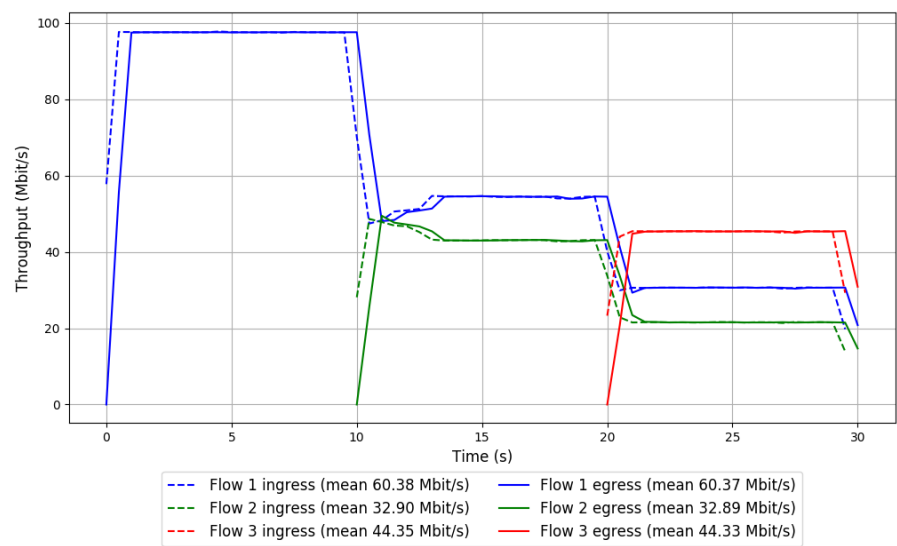
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-08-26 23:42:01
End at: 2019-08-26 23:42:31
Local clock offset: -2.37 ms
Remote clock offset: -0.825 ms


# Below is generated by plot.py at 2019-08-27 01:37:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 16.259 ms
Loss rate: 5.21%
-- Flow 1:
Average throughput: 63.40 Mbit/s
95th percentile per-packet one-way delay: 16.188 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 38.44 Mbit/s
95th percentile per-packet one-way delay: 13.748 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.10 Mbit/s
95th percentile per-packet one-way delay: 18.543 ms
Loss rate: 41.19%
```

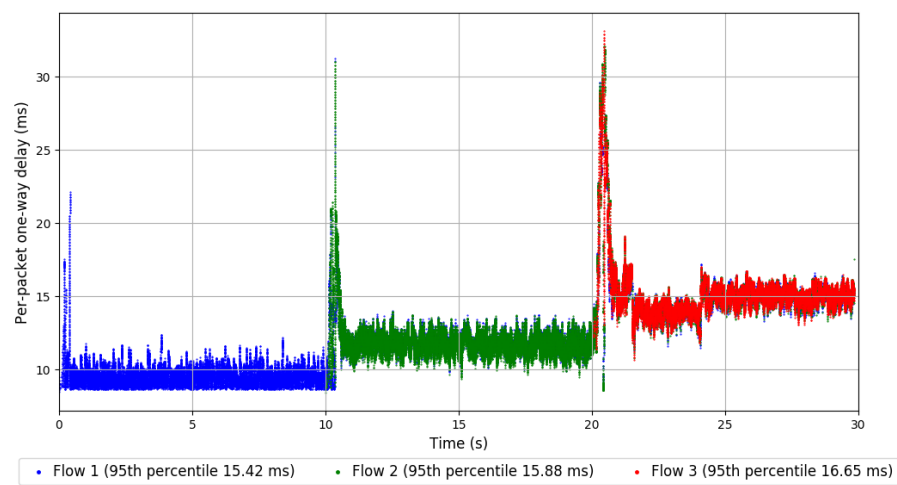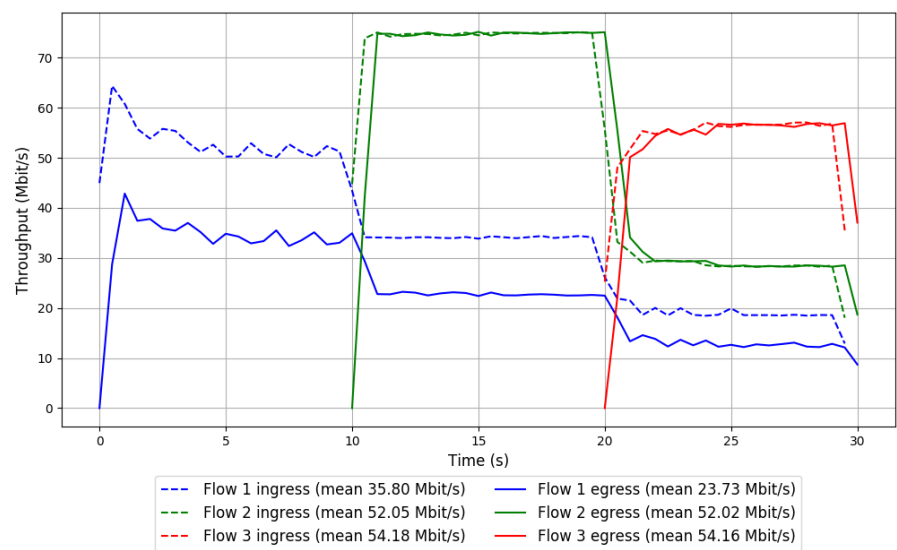Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-08-27 00:10:12
End at: 2019-08-27 00:10:42
Local clock offset: -2.392 ms
Remote clock offset: -1.839 ms


# Below is generated by plot.py at 2019-08-27 01:37:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 15.587 ms
Loss rate: 7.15%
-- Flow 1:
Average throughput: 71.79 Mbit/s
95th percentile per-packet one-way delay: 12.445 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.82 Mbit/s
95th percentile per-packet one-way delay: 16.105 ms
Loss rate: 38.68%
-- Flow 3:
Average throughput: 40.23 Mbit/s
95th percentile per-packet one-way delay: 16.154 ms
Loss rate: 0.03%
```
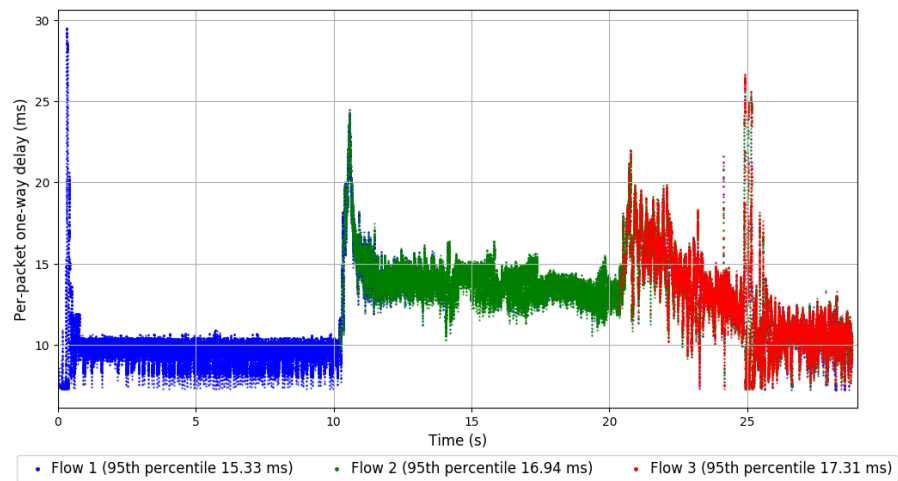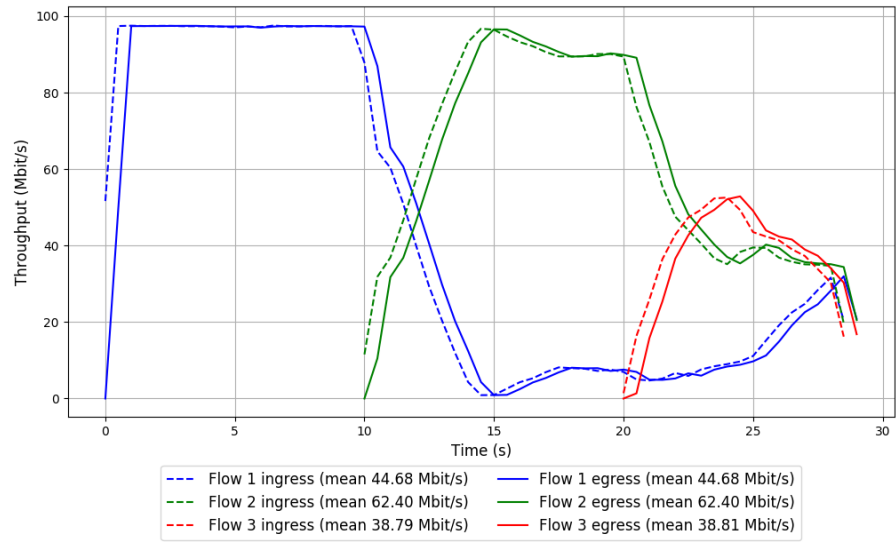
Run 3: Report of Indigo — Data Link

- - - Flow 1 ingress (mean 71.81 Mbit/s)   —— Flow 1 egress (mean 71.79 Mbit/s)
- - - Flow 2 ingress (mean 29.05 Mbit/s)   —— Flow 2 egress (mean 17.82 Mbit/s)
- - - Flow 3 ingress (mean 40.25 Mbit/s)   —— Flow 3 egress (mean 40.23 Mbit/s)

- Flow 1 (95th percentile 12.45 ms)   • Flow 2 (95th percentile 16.11 ms)   • Flow 3 (95th percentile 16.15 ms)

```
Run 4: Statistics of Indigo

Start at: 2019-08-27 00:38:15
End at: 2019-08-27 00:38:45
Local clock offset: -2.633 ms
Remote clock offset: 1.319 ms


# Below is generated by plot.py at 2019-08-27 01:37:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 20.603 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 17.407 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.89 Mbit/s
95th percentile per-packet one-way delay: 20.886 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 44.33 Mbit/s
95th percentile per-packet one-way delay: 21.130 ms
Loss rate: 0.03%
```

Run 4: Report of Indigo — Data Link

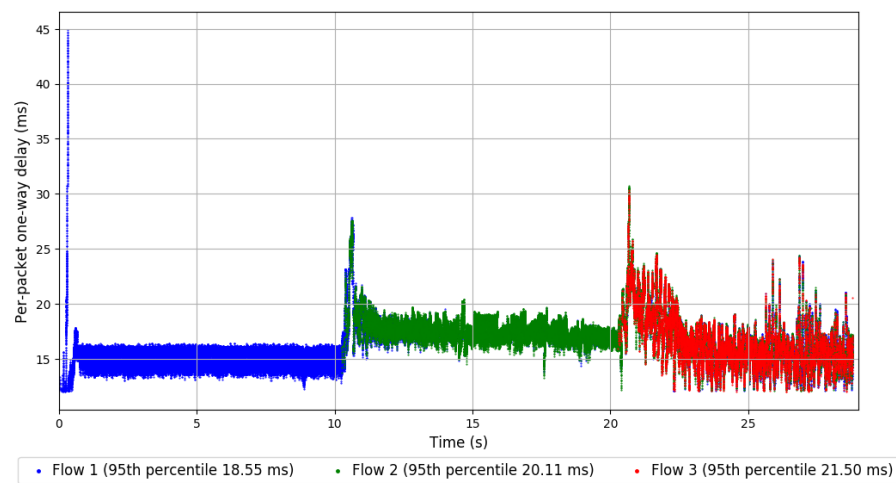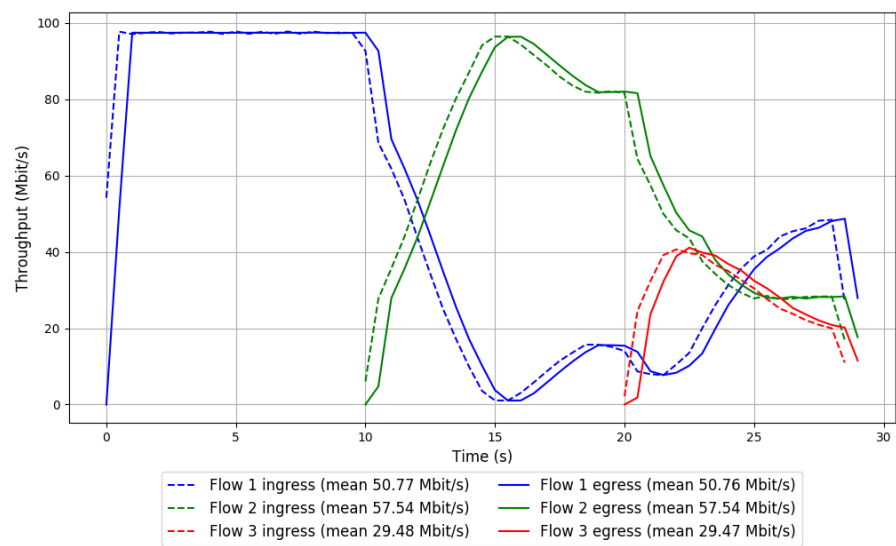Flow 1 ingress (mean 60.38 Mbit/s)   Flow 1 egress (mean 60.37 Mbit/s)
Flow 2 ingress (mean 32.90 Mbit/s)   Flow 2 egress (mean 32.89 Mbit/s)
Flow 3 ingress (mean 44.35 Mbit/s)   Flow 3 egress (mean 44.33 Mbit/s)

Flow 1 (95th percentile 17.41 ms)   Flow 2 (95th percentile 20.89 ms)   Flow 3 (95th percentile 21.13 ms)

```
Run 5: Statistics of Indigo

Start at: 2019-08-27 01:06:43
End at: 2019-08-27 01:07:13
Local clock offset: -0.921 ms
Remote clock offset: -1.505 ms


# Below is generated by plot.py at 2019-08-27 01:37:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.04 Mbit/s
95th percentile per-packet one-way delay: 15.981 ms
Loss rate: 13.70%
-- Flow 1:
Average throughput: 23.73 Mbit/s
95th percentile per-packet one-way delay: 15.418 ms
Loss rate: 33.70%
-- Flow 2:
Average throughput: 52.02 Mbit/s
95th percentile per-packet one-way delay: 15.876 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 16.648 ms
Loss rate: 0.04%
```

Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-26 23:36:09
End at: 2019-08-26 23:36:39
Local clock offset: -2.683 ms
Remote clock offset: -2.403 ms


# Below is generated by plot.py at 2019-08-27 01:37:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 16.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.68 Mbit/s
95th percentile per-packet one-way delay: 15.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.40 Mbit/s
95th percentile per-packet one-way delay: 16.937 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 17.310 ms
Loss rate: 0.00%
```
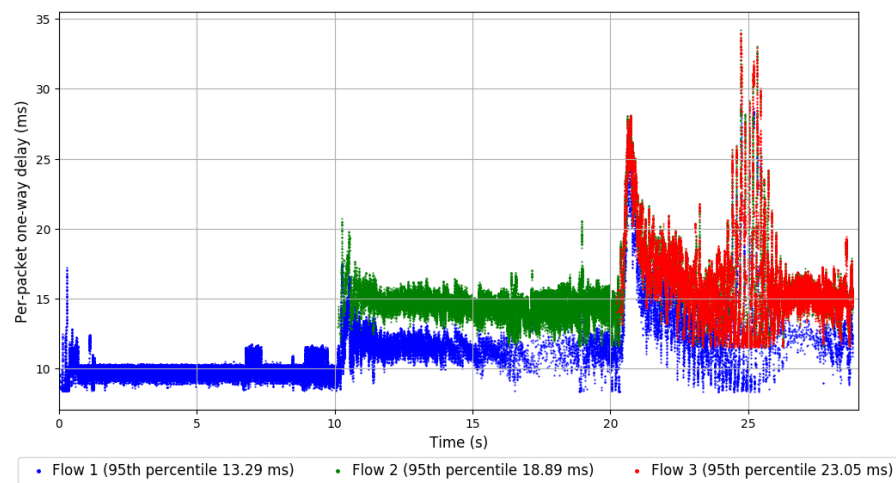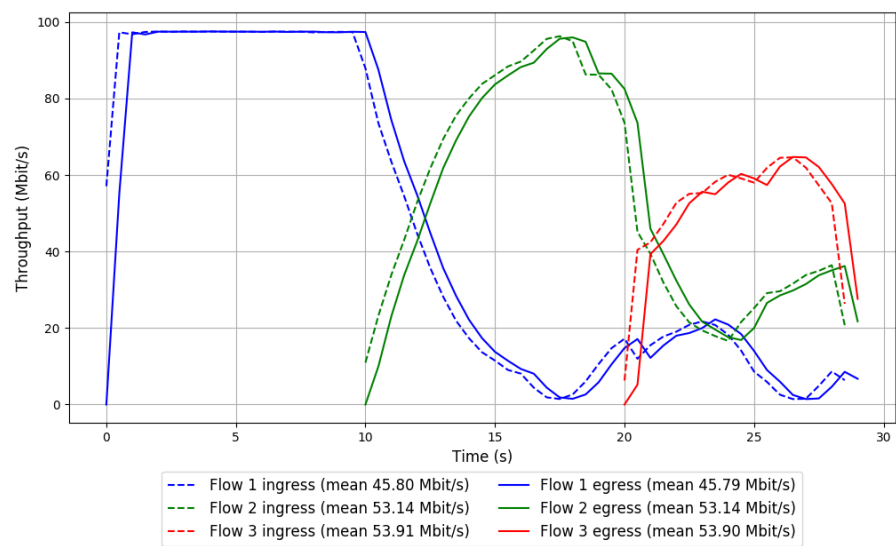
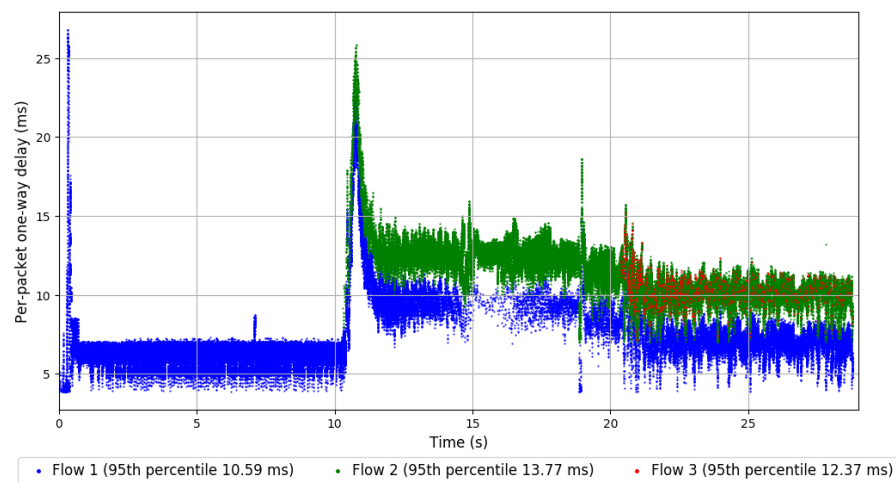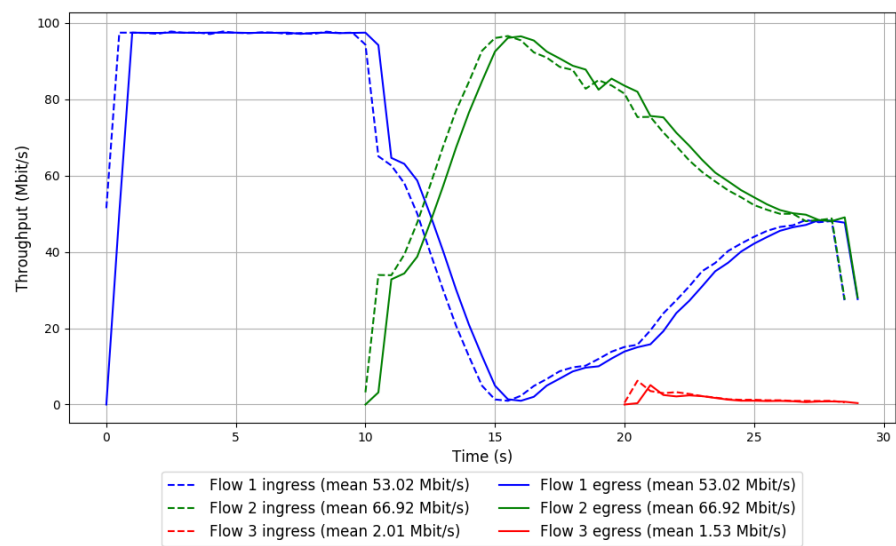Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 00:04:21
End at: 2019-08-27 00:04:51
Local clock offset: -3.518 ms
Remote clock offset: -1.065 ms


# Below is generated by plot.py at 2019-08-27 01:37:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.58 Mbit/s
95th percentile per-packet one-way delay: 19.568 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 50.76 Mbit/s
95th percentile per-packet one-way delay: 18.550 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 57.54 Mbit/s
95th percentile per-packet one-way delay: 20.111 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 29.47 Mbit/s
95th percentile per-packet one-way delay: 21.505 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 00:32:20
End at: 2019-08-27 00:32:50
Local clock offset: -2.754 ms
Remote clock offset: -0.704 ms


# Below is generated by plot.py at 2019-08-27 01:37:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 18.350 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 45.79 Mbit/s
95th percentile per-packet one-way delay: 13.292 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 53.14 Mbit/s
95th percentile per-packet one-way delay: 18.891 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 53.90 Mbit/s
95th percentile per-packet one-way delay: 23.045 ms
Loss rate: 0.03%
```
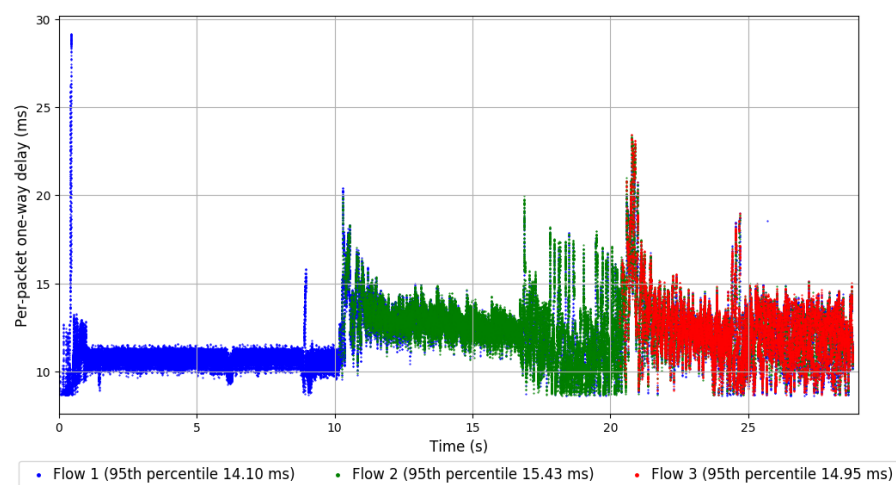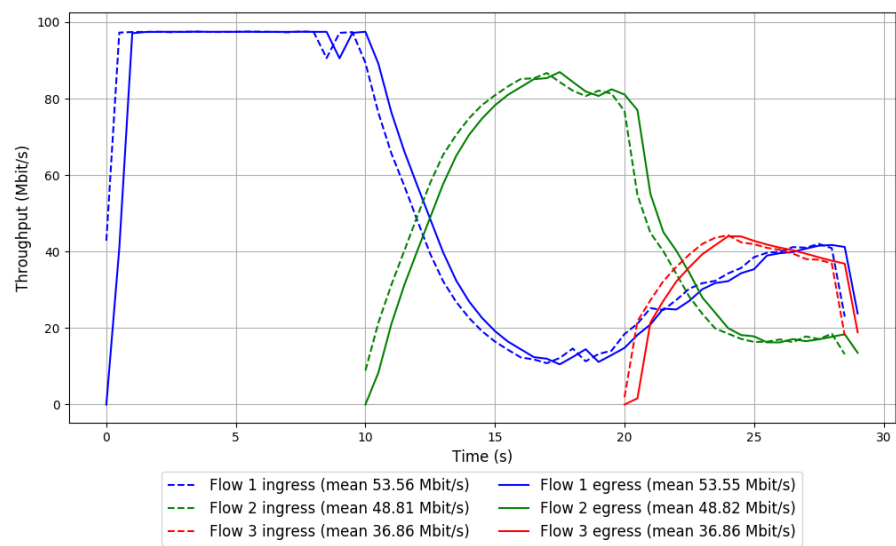
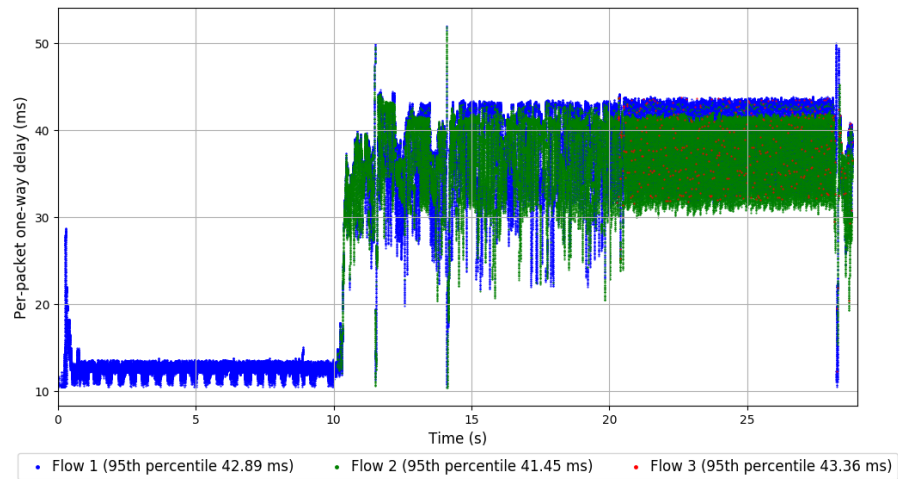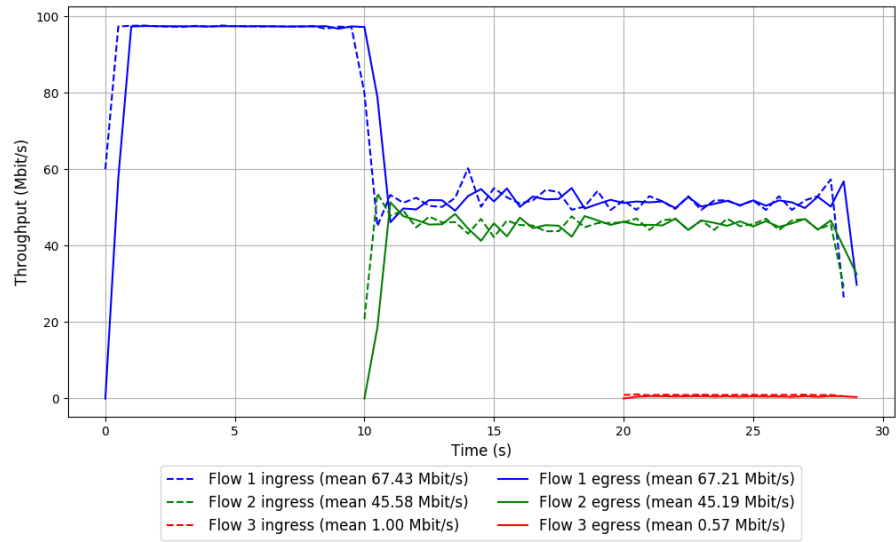Run 3: Report of Indigo-MusesC3 — Data Link

70

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 01:00:52
End at: 2019-08-27 01:01:22
Local clock offset: -0.244 ms
Remote clock offset: -2.291 ms


# Below is generated by plot.py at 2019-08-27 01:38:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 13.427 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 10.594 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.92 Mbit/s
95th percentile per-packet one-way delay: 13.773 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 12.369 ms
Loss rate: 23.72%
```

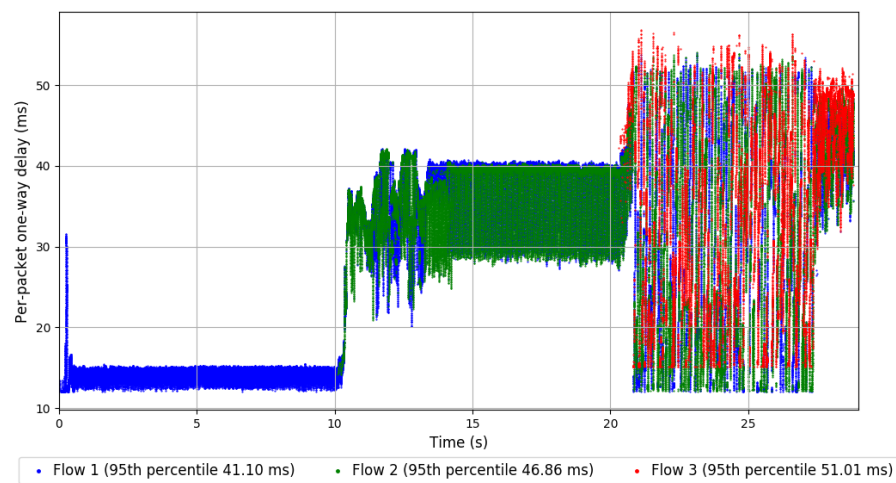Run 4: Report of Indigo-MusesC3 — Data Link

72

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 01:29:04
End at: 2019-08-27 01:29:34
Local clock offset: -2.482 ms
Remote clock offset: 0.699 ms


# Below is generated by plot.py at 2019-08-27 01:38:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 14.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 14.095 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.82 Mbit/s
95th percentile per-packet one-way delay: 15.434 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.86 Mbit/s
95th percentile per-packet one-way delay: 14.951 ms
Loss rate: 0.00%
```

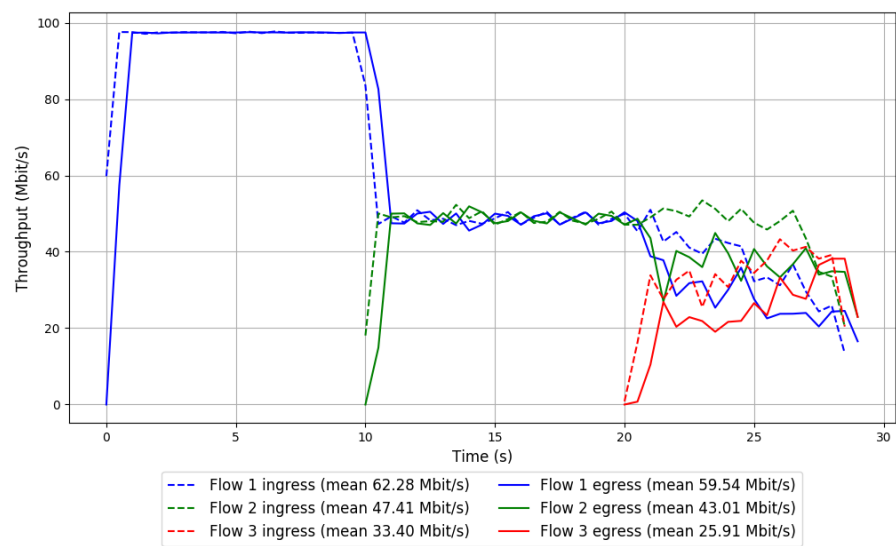Run 5: Report of Indigo-MusesC3 — Data Link

- - - - Flow 1 ingress (mean 53.56 Mbit/s) —— Flow 1 egress (mean 53.55 Mbit/s)
- - - - Flow 2 ingress (mean 48.81 Mbit/s) —— Flow 2 egress (mean 48.82 Mbit/s)
- - - - Flow 3 ingress (mean 36.86 Mbit/s) —— Flow 3 egress (mean 36.86 Mbit/s)

• Flow 1 (95th percentile 14.10 ms)   • Flow 2 (95th percentile 15.43 ms)   • Flow 3 (95th percentile 14.95 ms)
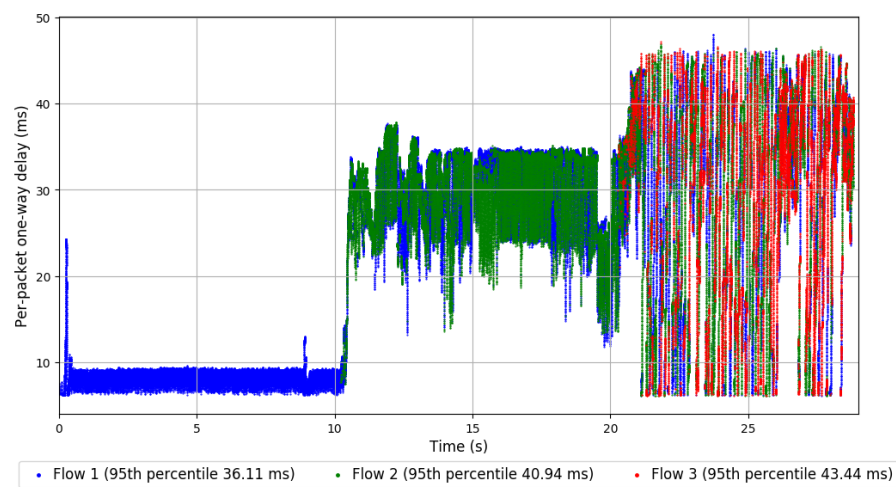
```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-26 23:37:20
End at: 2019-08-26 23:37:50
Local clock offset: -3.085 ms
Remote clock offset: -2.676 ms


# Below is generated by plot.py at 2019-08-27 01:38:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.73 Mbit/s
95th percentile per-packet one-way delay: 42.714 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 67.21 Mbit/s
95th percentile per-packet one-way delay: 42.887 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 45.19 Mbit/s
95th percentile per-packet one-way delay: 41.454 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 43.362 ms
Loss rate: 42.87%
```

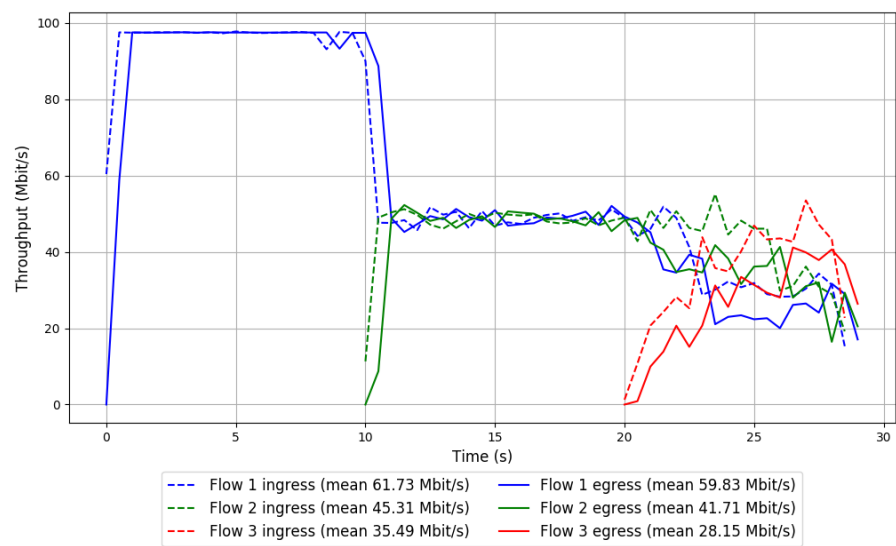Run 1: Report of Indigo-MusesC5 — Data Link

- - - Flow 1 ingress (mean 67.43 Mbit/s) —— Flow 1 egress (mean 67.21 Mbit/s)
- - - Flow 2 ingress (mean 45.58 Mbit/s) —— Flow 2 egress (mean 45.19 Mbit/s)
- - - Flow 3 ingress (mean 1.00 Mbit/s) —— Flow 3 egress (mean 0.57 Mbit/s)

• Flow 1 (95th percentile 42.89 ms)   • Flow 2 (95th percentile 41.45 ms)   • Flow 3 (95th percentile 43.36 ms)

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 00:05:32
End at: 2019-08-27 00:06:02
Local clock offset: -9.849 ms
Remote clock offset: -4.351 ms


# Below is generated by plot.py at 2019-08-27 01:38:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 45.943 ms
Loss rate: 7.52%
-- Flow 1:
Average throughput: 59.54 Mbit/s
95th percentile per-packet one-way delay: 41.101 ms
Loss rate: 4.33%
-- Flow 2:
Average throughput: 43.01 Mbit/s
95th percentile per-packet one-way delay: 46.856 ms
Loss rate: 9.18%
-- Flow 3:
Average throughput: 25.91 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 22.48%
```
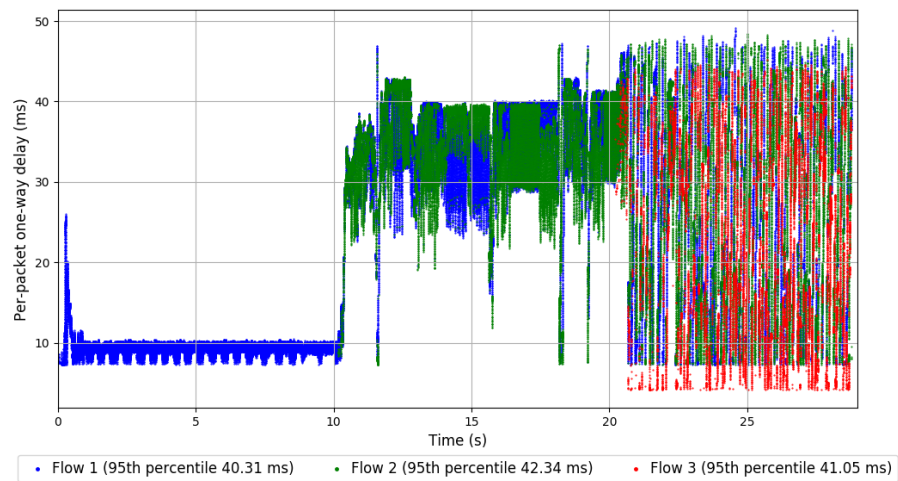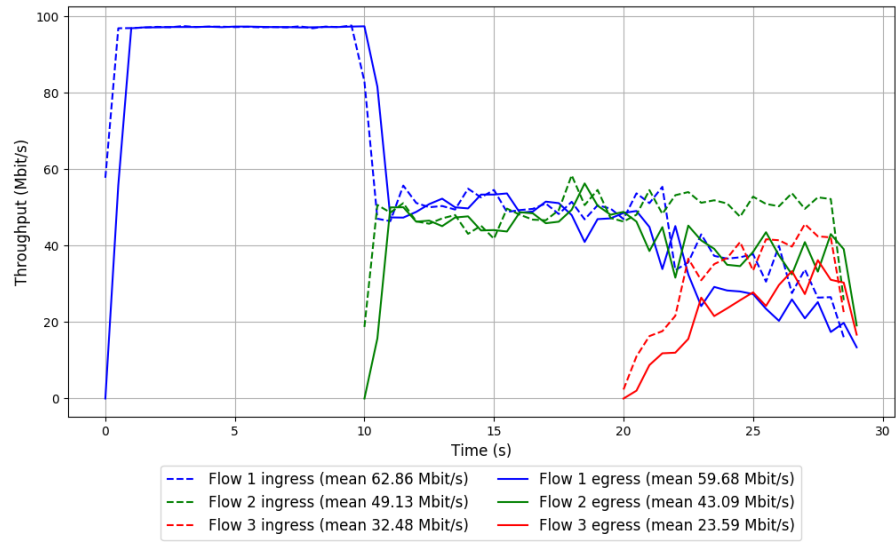
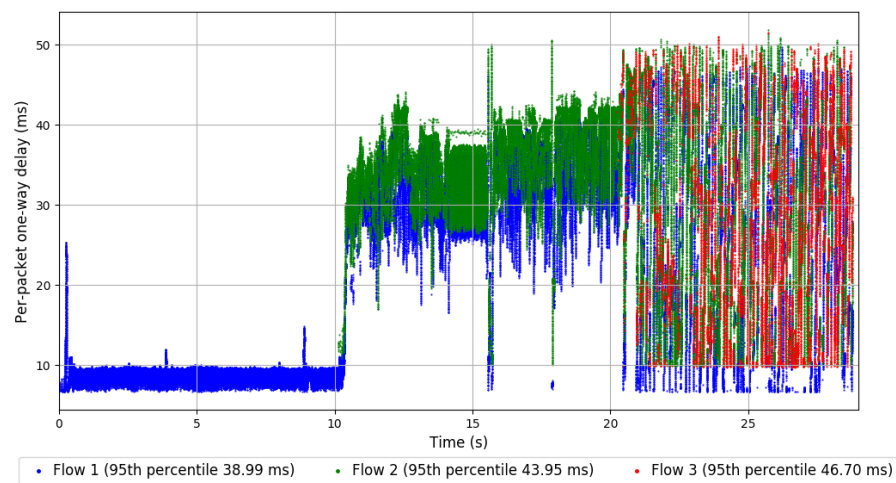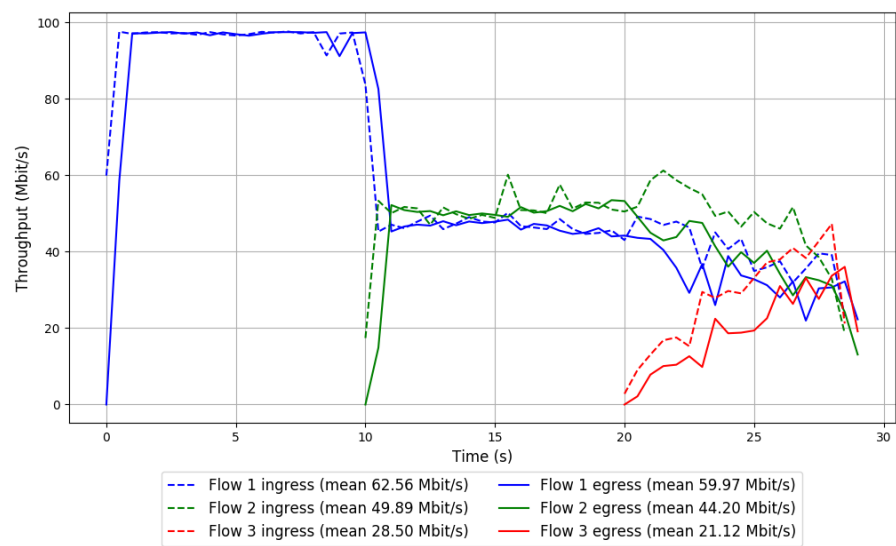Run 2: Report of Indigo-MusesC5 — Data Link

- - - Flow 1 ingress (mean 62.28 Mbit/s) ——— Flow 1 egress (mean 59.54 Mbit/s)
- - - Flow 2 ingress (mean 47.41 Mbit/s) ——— Flow 2 egress (mean 43.01 Mbit/s)
- - - Flow 3 ingress (mean 33.40 Mbit/s) ——— Flow 3 egress (mean 25.91 Mbit/s)

• Flow 1 (95th percentile 41.10 ms)　　• Flow 2 (95th percentile 46.86 ms)　　• Flow 3 (95th percentile 51.01 ms)

78

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 00:33:34
End at: 2019-08-27 00:34:04
Local clock offset: -1.846 ms
Remote clock offset: -2.046 ms


# Below is generated by plot.py at 2019-08-27 01:38:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 39.835 ms
Loss rate: 6.21%
-- Flow 1:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 36.108 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 41.71 Mbit/s
95th percentile per-packet one-way delay: 40.937 ms
Loss rate: 7.80%
-- Flow 3:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 43.443 ms
Loss rate: 20.59%
```

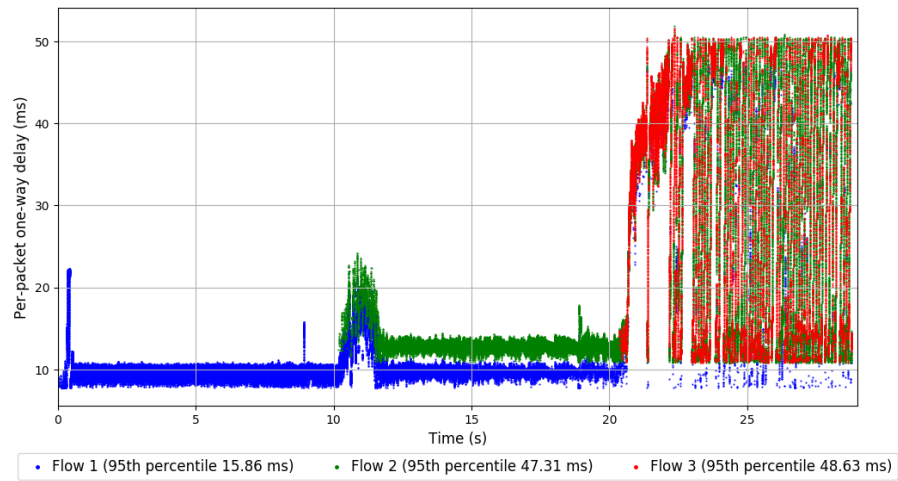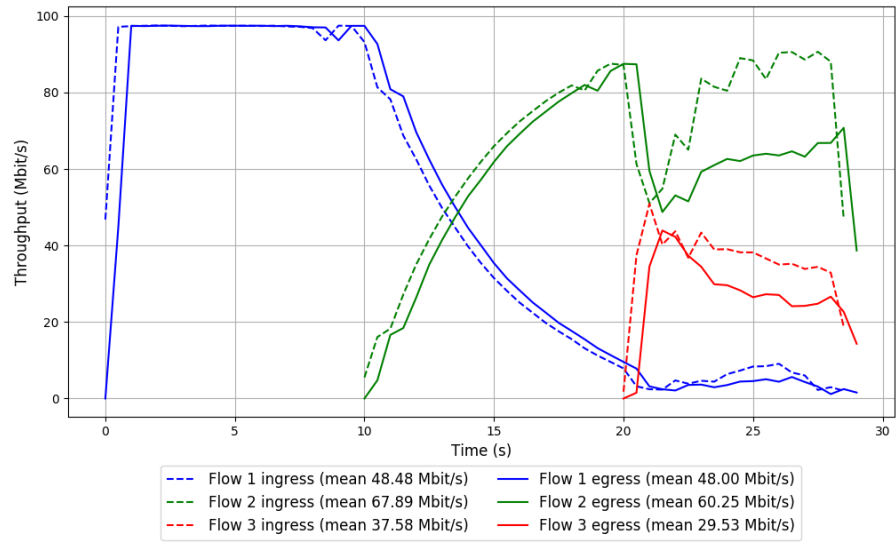Run 3: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 61.73 Mbit/s) --- Flow 1 egress (mean 59.83 Mbit/s) ---
Flow 2 ingress (mean 45.31 Mbit/s) --- Flow 2 egress (mean 41.71 Mbit/s) ---
Flow 3 ingress (mean 35.49 Mbit/s) --- Flow 3 egress (mean 28.15 Mbit/s) ---

Flow 1 (95th percentile 36.11 ms)   Flow 2 (95th percentile 40.94 ms)   Flow 3 (95th percentile 43.44 ms)

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 01:02:03
End at: 2019-08-27 01:02:33
Local clock offset: 0.028 ms
Remote clock offset: -1.72 ms


# Below is generated by plot.py at 2019-08-27 01:38:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 41.275 ms
Loss rate: 9.36%
-- Flow 1:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 40.308 ms
Loss rate: 5.05%
-- Flow 2:
Average throughput: 43.09 Mbit/s
95th percentile per-packet one-way delay: 42.342 ms
Loss rate: 12.29%
-- Flow 3:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 41.051 ms
Loss rate: 27.63%
```

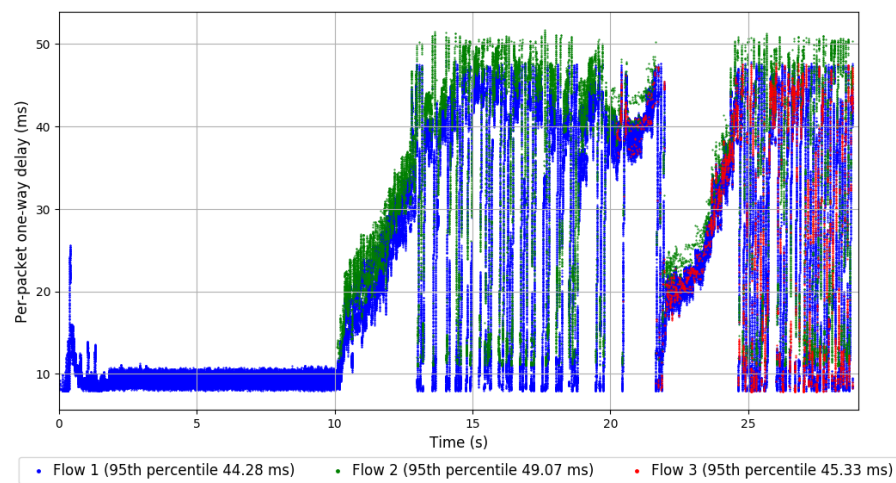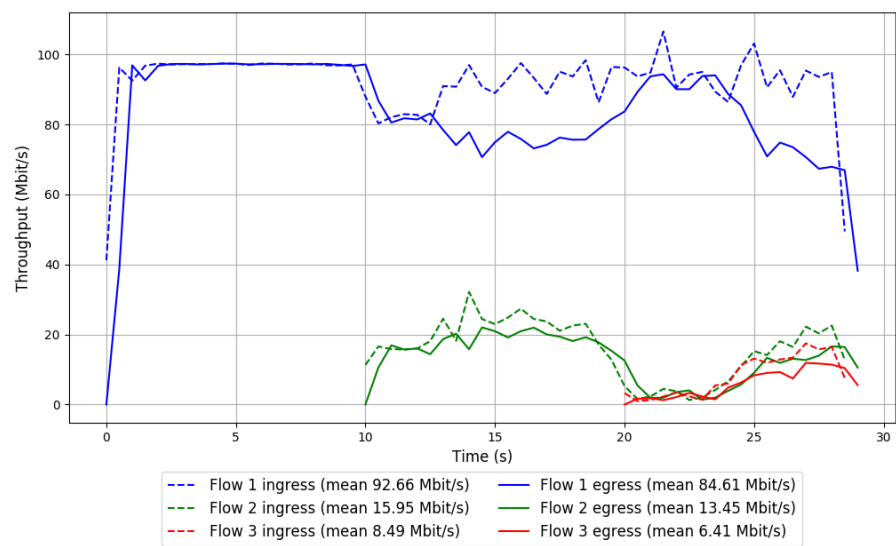Run 4: Report of Indigo-MusesC5 — Data Link

- - - - Flow 1 ingress (mean 62.86 Mbit/s) ——— Flow 1 egress (mean 59.68 Mbit/s)
- - - - Flow 2 ingress (mean 49.13 Mbit/s) ——— Flow 2 egress (mean 43.09 Mbit/s)
- - - - Flow 3 ingress (mean 32.48 Mbit/s) ——— Flow 3 egress (mean 23.59 Mbit/s)

• Flow 1 (95th percentile 40.31 ms)   • Flow 2 (95th percentile 42.34 ms)   • Flow 3 (95th percentile 41.05 ms)
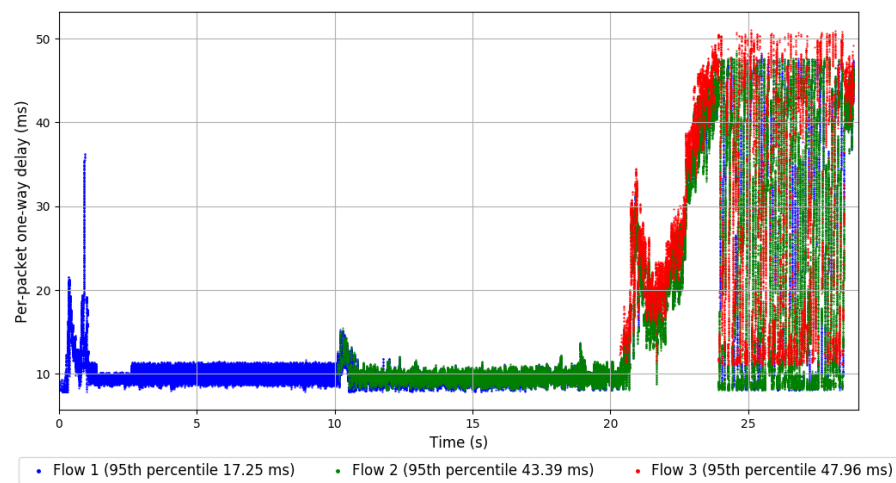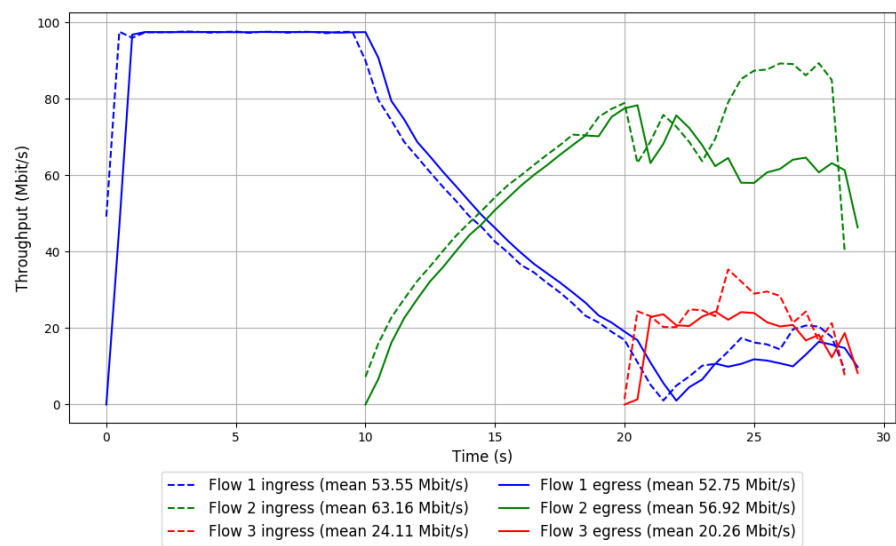
```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 01:30:16
End at: 2019-08-27 01:30:46
Local clock offset: -2.869 ms
Remote clock offset: -1.504 ms


# Below is generated by plot.py at 2019-08-27 01:39:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 42.003 ms
Loss rate: 8.19%
-- Flow 1:
Average throughput: 59.97 Mbit/s
95th percentile per-packet one-way delay: 38.995 ms
Loss rate: 4.11%
-- Flow 2:
Average throughput: 44.20 Mbit/s
95th percentile per-packet one-way delay: 43.951 ms
Loss rate: 11.38%
-- Flow 3:
Average throughput: 21.12 Mbit/s
95th percentile per-packet one-way delay: 46.697 ms
Loss rate: 26.10%
```
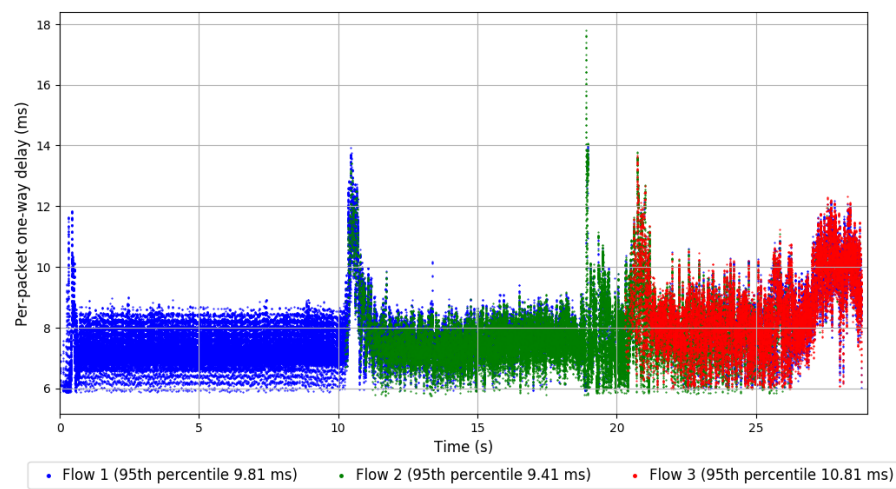
Run 5: Report of Indigo-MusesC5 — Data Link

- - - Flow 1 ingress (mean 62.56 Mbit/s) —— Flow 1 egress (mean 59.97 Mbit/s)
- - - Flow 2 ingress (mean 49.89 Mbit/s) —— Flow 2 egress (mean 44.20 Mbit/s)
- - - Flow 3 ingress (mean 28.50 Mbit/s) —— Flow 3 egress (mean 21.12 Mbit/s)

• Flow 1 (95th percentile 38.99 ms)   • Flow 2 (95th percentile 43.95 ms)   • Flow 3 (95th percentile 46.70 ms)

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-26 23:19:47
End at: 2019-08-26 23:20:17
Local clock offset: -2.159 ms
Remote clock offset: -1.931 ms


# Below is generated by plot.py at 2019-08-27 01:39:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 45.284 ms
Loss rate: 7.54%
-- Flow 1:
Average throughput: 48.00 Mbit/s
95th percentile per-packet one-way delay: 15.861 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 47.309 ms
Loss rate: 11.27%
-- Flow 3:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 48.628 ms
Loss rate: 21.42%
```

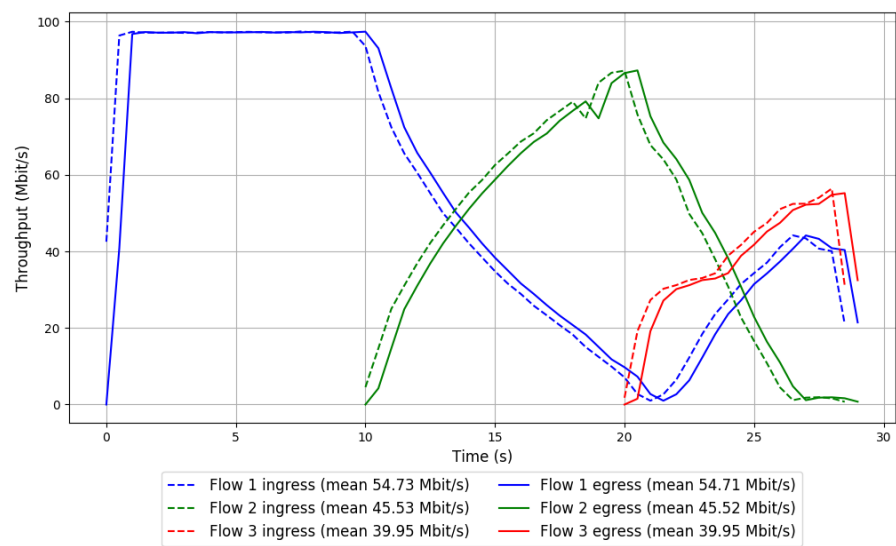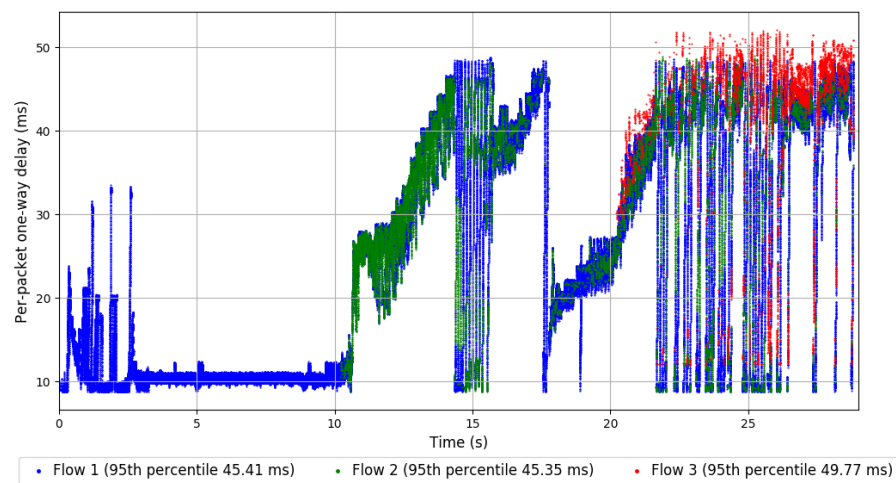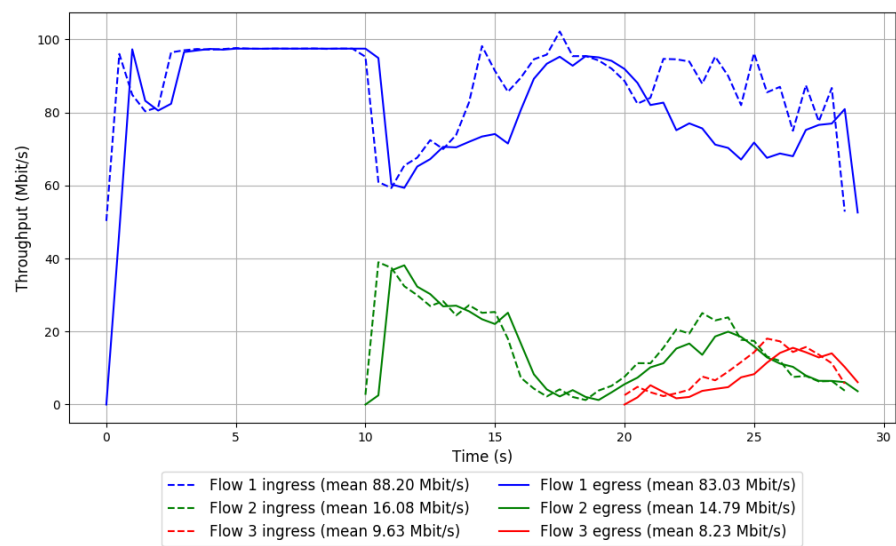Run 1: Report of Indigo-MusesD — Data Link

- - - Flow 1 ingress (mean 48.48 Mbit/s)   —— Flow 1 egress (mean 48.00 Mbit/s)
- - - Flow 2 ingress (mean 67.89 Mbit/s)   —— Flow 2 egress (mean 60.25 Mbit/s)
- - - Flow 3 ingress (mean 37.58 Mbit/s)   —— Flow 3 egress (mean 29.53 Mbit/s)

- Flow 1 (95th percentile 15.86 ms)   • Flow 2 (95th percentile 47.31 ms)   • Flow 3 (95th percentile 48.63 ms)

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-26 23:47:49
End at: 2019-08-26 23:48:19
Local clock offset: -1.928 ms
Remote clock offset: -0.841 ms


# Below is generated by plot.py at 2019-08-27 01:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 45.168 ms
Loss rate: 9.76%
-- Flow 1:
Average throughput: 84.61 Mbit/s
95th percentile per-packet one-way delay: 44.285 ms
Loss rate: 8.69%
-- Flow 2:
Average throughput: 13.45 Mbit/s
95th percentile per-packet one-way delay: 49.066 ms
Loss rate: 15.69%
-- Flow 3:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 45.332 ms
Loss rate: 24.71%
```

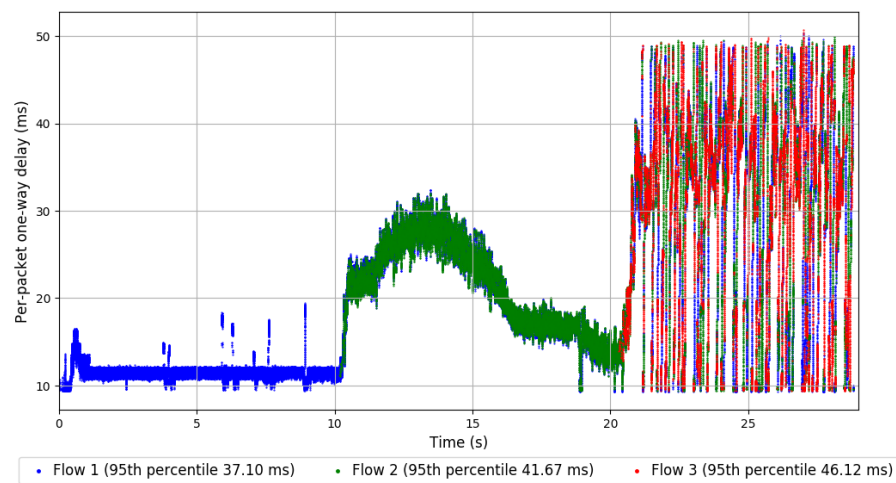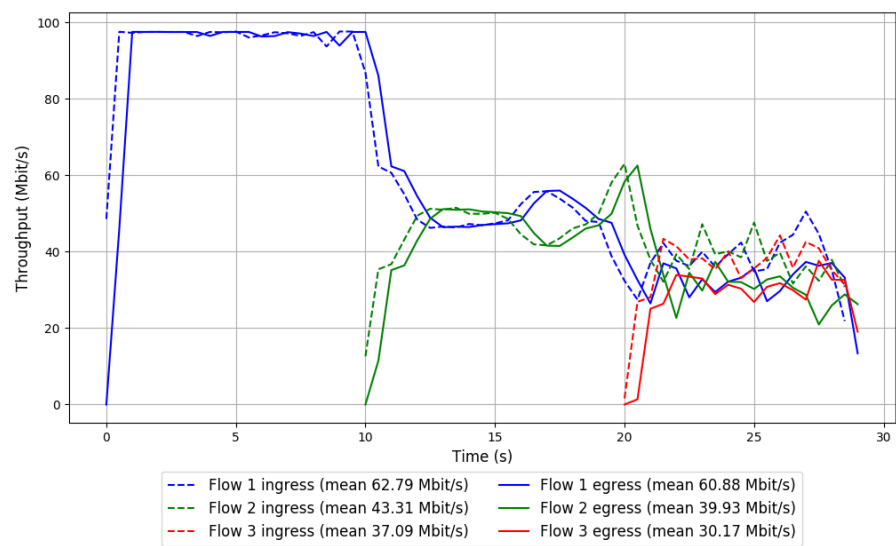Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 00:15:59
End at: 2019-08-27 00:16:29
Local clock offset: -2.534 ms
Remote clock offset: -1.147 ms


# Below is generated by plot.py at 2019-08-27 01:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 42.288 ms
Loss rate: 5.73%
-- Flow 1:
Average throughput: 52.75 Mbit/s
95th percentile per-packet one-way delay: 17.245 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 56.92 Mbit/s
95th percentile per-packet one-way delay: 43.386 ms
Loss rate: 9.71%
-- Flow 3:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 47.964 ms
Loss rate: 15.70%
```
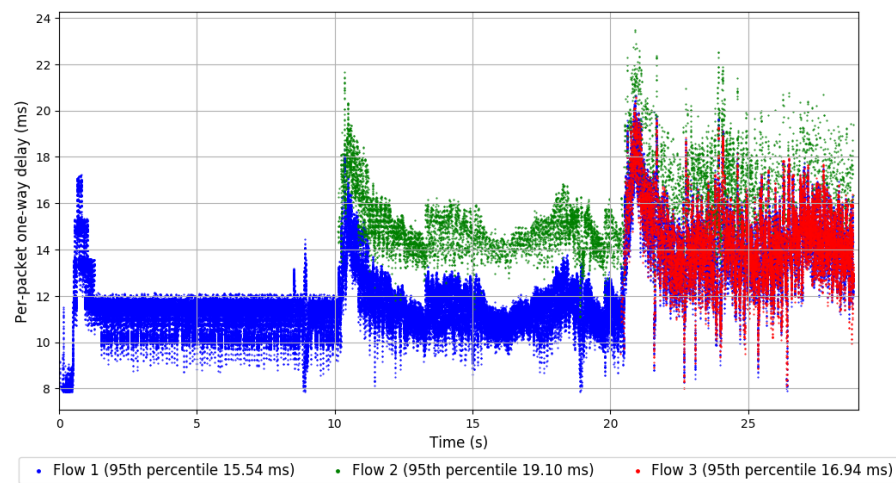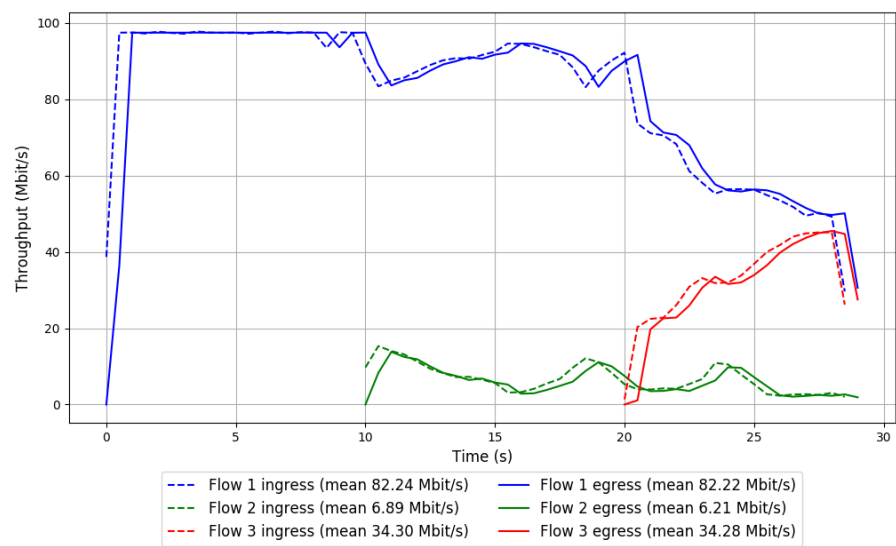
Run 3: Report of Indigo-MusesD — Data Link

- - - Flow 1 ingress (mean 53.55 Mbit/s)   —— Flow 1 egress (mean 52.75 Mbit/s)
- - - Flow 2 ingress (mean 63.16 Mbit/s)   —— Flow 2 egress (mean 56.92 Mbit/s)
- - - Flow 3 ingress (mean 24.11 Mbit/s)   —— Flow 3 egress (mean 20.26 Mbit/s)

- Flow 1 (95th percentile 17.25 ms)   • Flow 2 (95th percentile 43.39 ms)   • Flow 3 (95th percentile 47.96 ms)
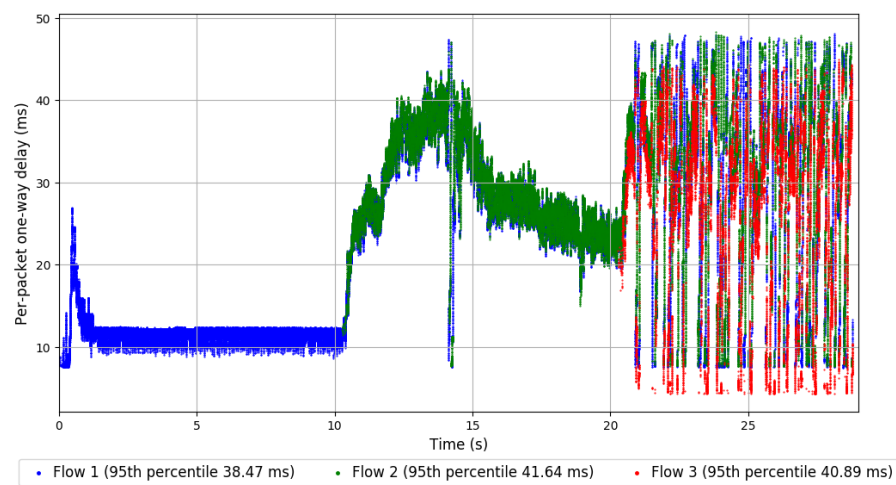
90

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 00:44:03
End at: 2019-08-27 00:44:33
Local clock offset: -2.258 ms
Remote clock offset: -2.242 ms


# Below is generated by plot.py at 2019-08-27 01:39:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 10.086 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 54.71 Mbit/s
95th percentile per-packet one-way delay: 9.808 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 45.52 Mbit/s
95th percentile per-packet one-way delay: 9.408 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 10.808 ms
Loss rate: 0.00%
```
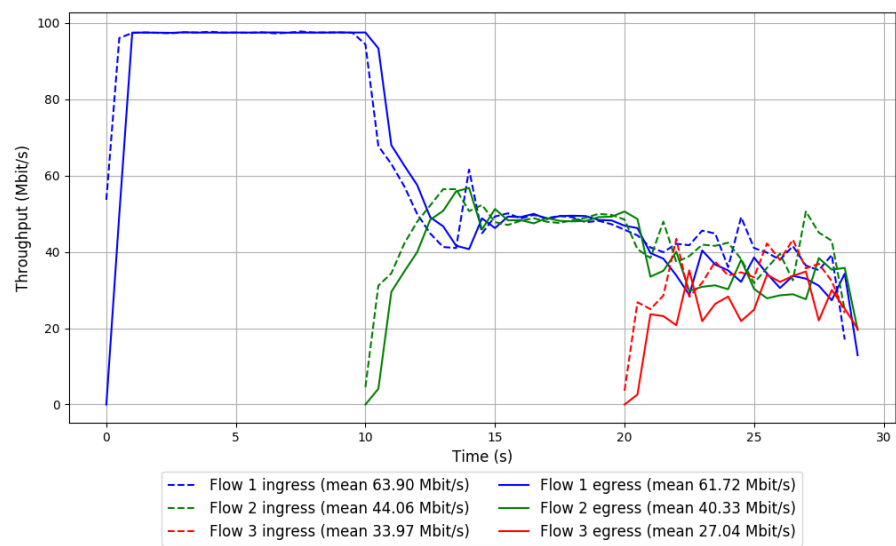
Run 4: Report of Indigo-MusesD — Data Link

- - - Flow 1 ingress (mean 54.73 Mbit/s) ——— Flow 1 egress (mean 54.71 Mbit/s)
- - - Flow 2 ingress (mean 45.53 Mbit/s) ——— Flow 2 egress (mean 45.52 Mbit/s)
- - - Flow 3 ingress (mean 39.95 Mbit/s) ——— Flow 3 egress (mean 39.95 Mbit/s)

- Flow 1 (95th percentile 9.81 ms)   • Flow 2 (95th percentile 9.41 ms)   • Flow 3 (95th percentile 10.81 ms)
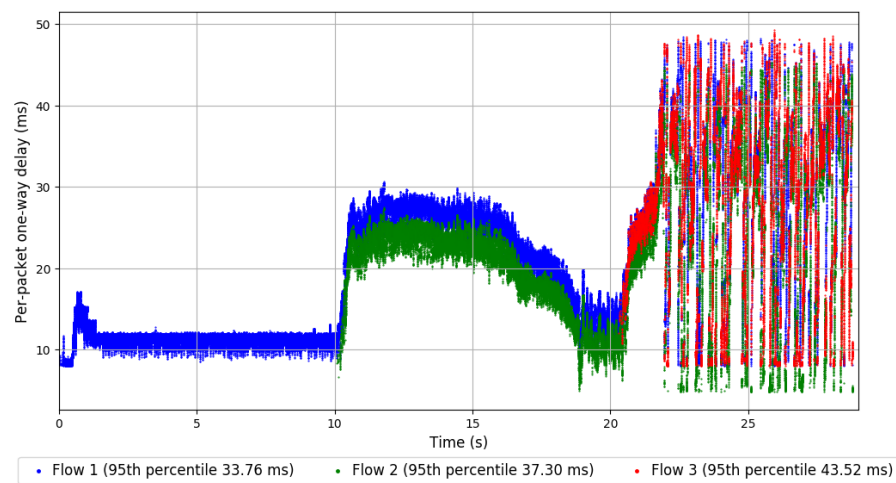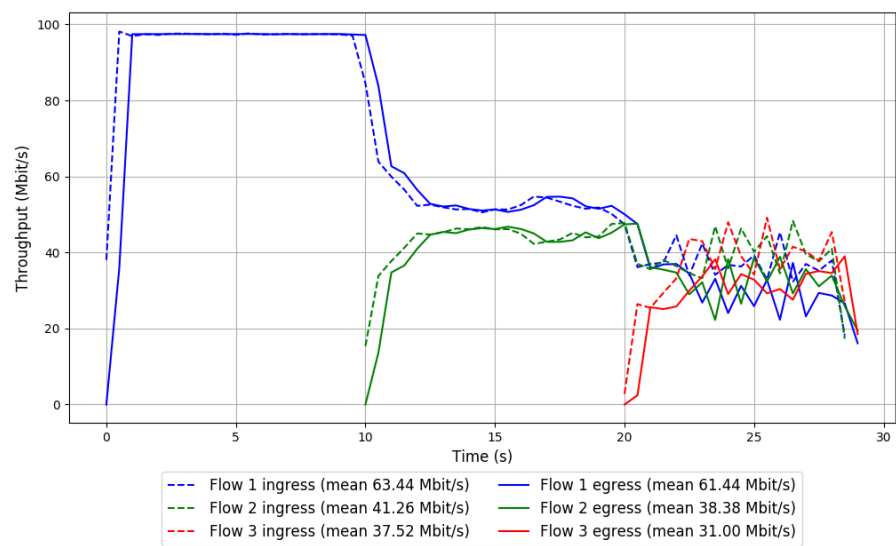
92

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 01:12:30
End at: 2019-08-27 01:13:00
Local clock offset: -3.202 ms
Remote clock offset: -0.459 ms


# Below is generated by plot.py at 2019-08-27 01:39:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.04 Mbit/s
95th percentile per-packet one-way delay: 45.766 ms
Loss rate: 6.20%
-- Flow 1:
Average throughput: 83.03 Mbit/s
95th percentile per-packet one-way delay: 45.411 ms
Loss rate: 5.74%
-- Flow 2:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 45.350 ms
Loss rate: 7.86%
-- Flow 3:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 49.767 ms
Loss rate: 14.42%
```

Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-26 23:34:58
End at: 2019-08-26 23:35:28
Local clock offset: -2.327 ms
Remote clock offset: 0.059 ms


# Below is generated by plot.py at 2019-08-27 01:39:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 40.545 ms
Loss rate: 6.04%
-- Flow 1:
Average throughput: 60.88 Mbit/s
95th percentile per-packet one-way delay: 37.096 ms
Loss rate: 3.04%
-- Flow 2:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 41.674 ms
Loss rate: 7.82%
-- Flow 3:
Average throughput: 30.17 Mbit/s
95th percentile per-packet one-way delay: 46.119 ms
Loss rate: 18.70%
```

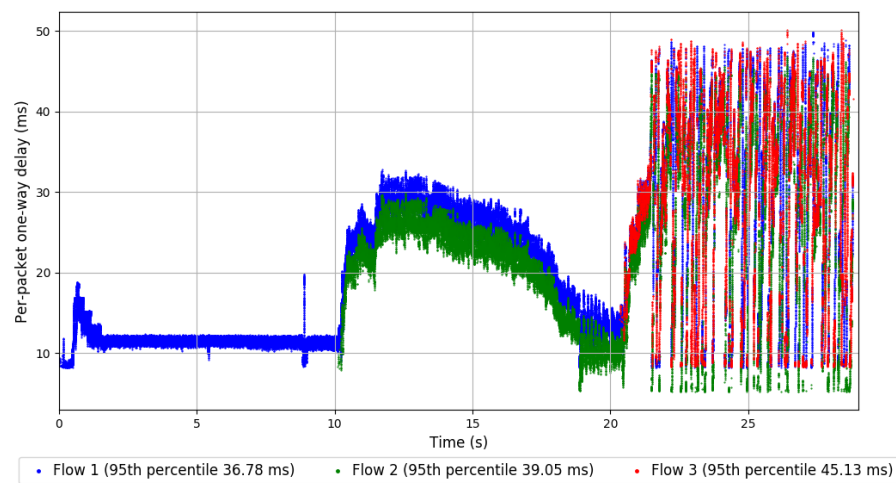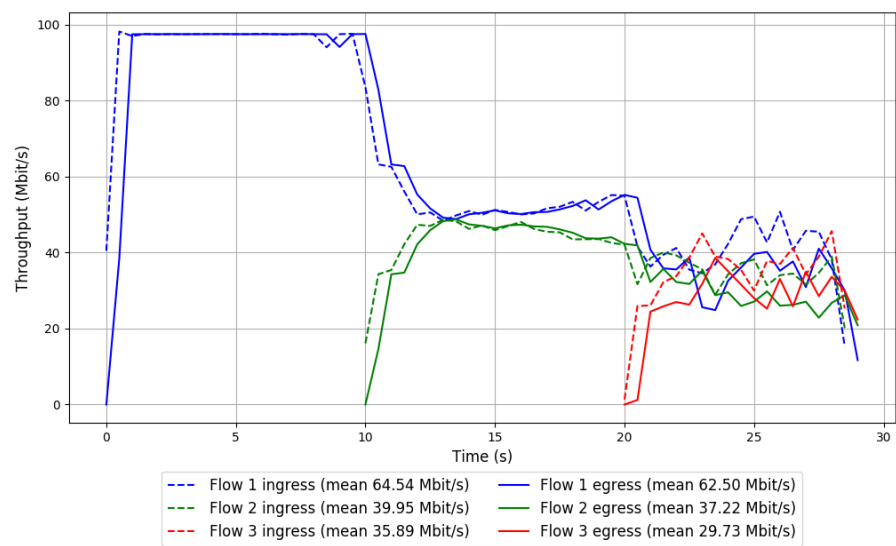## Run 1: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 62.79 Mbit/s) — Flow 1 egress (mean 60.88 Mbit/s)
Flow 2 ingress (mean 43.31 Mbit/s) — Flow 2 egress (mean 39.93 Mbit/s)
Flow 3 ingress (mean 37.09 Mbit/s) — Flow 3 egress (mean 30.17 Mbit/s)

Flow 1 (95th percentile 37.10 ms)   Flow 2 (95th percentile 41.67 ms)   Flow 3 (95th percentile 46.12 ms)

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 00:03:10
End at: 2019-08-27 00:03:40
Local clock offset: -3.703 ms
Remote clock offset: -2.382 ms


# Below is generated by plot.py at 2019-08-27 01:39:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.29 Mbit/s
95th percentile per-packet one-way delay: 16.248 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 15.539 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 19.097 ms
Loss rate: 9.80%
-- Flow 3:
Average throughput: 34.28 Mbit/s
95th percentile per-packet one-way delay: 16.942 ms
Loss rate: 0.00%
```

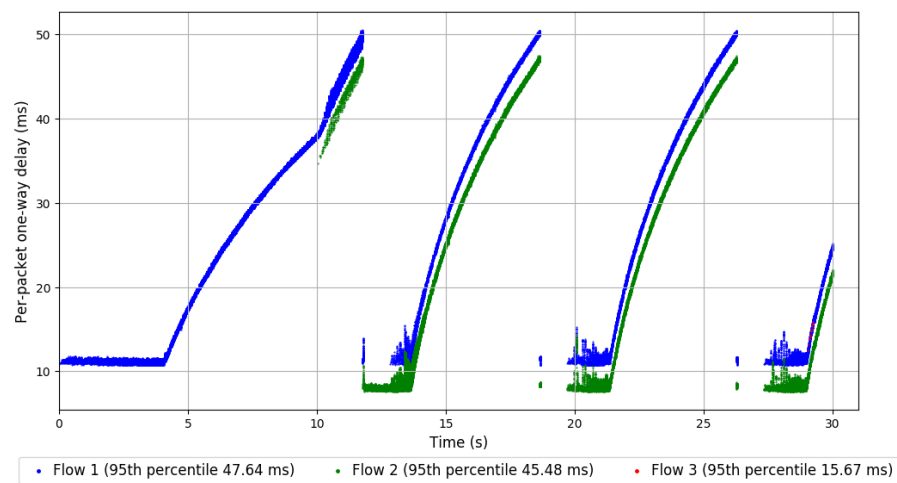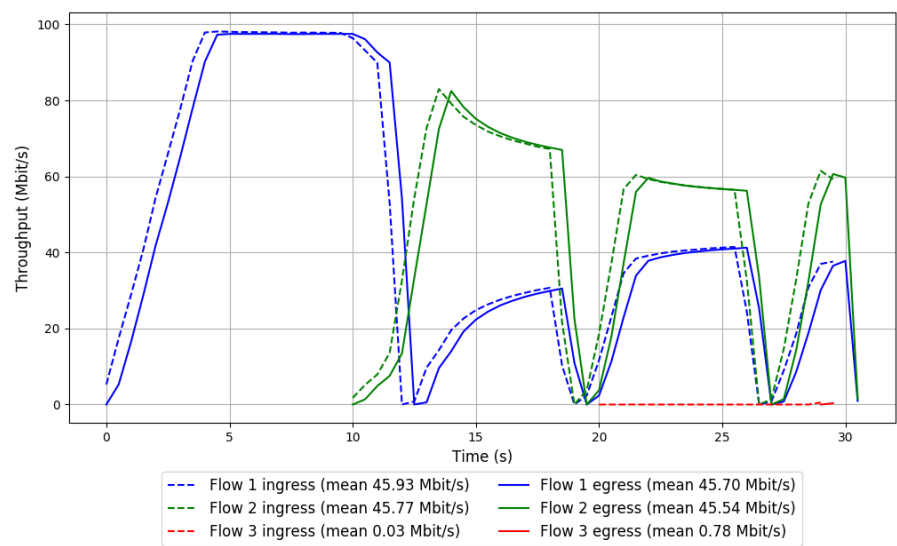Run 2: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 82.24 Mbit/s)   Flow 1 egress (mean 82.22 Mbit/s)
Flow 2 ingress (mean 6.89 Mbit/s)   Flow 2 egress (mean 6.21 Mbit/s)
Flow 3 ingress (mean 34.30 Mbit/s)   Flow 3 egress (mean 34.28 Mbit/s)

Flow 1 (95th percentile 15.54 ms)   Flow 2 (95th percentile 19.10 ms)   Flow 3 (95th percentile 16.94 ms)

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 00:31:09
End at: 2019-08-27 00:31:39
Local clock offset: -0.458 ms
Remote clock offset: -2.554 ms


# Below is generated by plot.py at 2019-08-27 01:40:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 40.055 ms
Loss rate: 6.49%
-- Flow 1:
Average throughput: 61.72 Mbit/s
95th percentile per-packet one-way delay: 38.465 ms
Loss rate: 3.40%
-- Flow 2:
Average throughput: 40.33 Mbit/s
95th percentile per-packet one-way delay: 41.638 ms
Loss rate: 8.48%
-- Flow 3:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 40.893 ms
Loss rate: 20.48%
```

Run 3: Report of Indigo-MusesT — Data Link

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 00:59:41
End at: 2019-08-27 01:00:11
Local clock offset: -1.202 ms
Remote clock offset: -2.257 ms


# Below is generated by plot.py at 2019-08-27 01:40:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 37.621 ms
Loss rate: 5.76%
-- Flow 1:
Average throughput: 61.44 Mbit/s
95th percentile per-packet one-way delay: 33.764 ms
Loss rate: 3.19%
-- Flow 2:
Average throughput: 38.38 Mbit/s
95th percentile per-packet one-way delay: 37.297 ms
Loss rate: 6.99%
-- Flow 3:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 43.518 ms
Loss rate: 17.50%
```
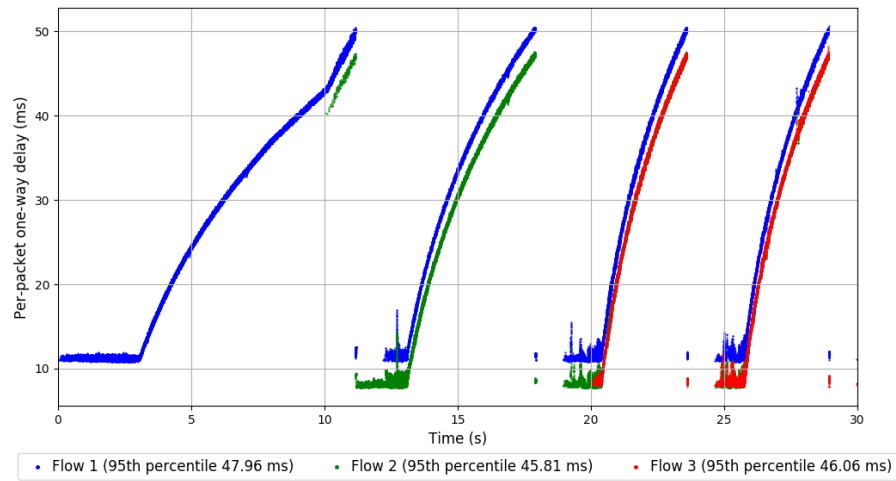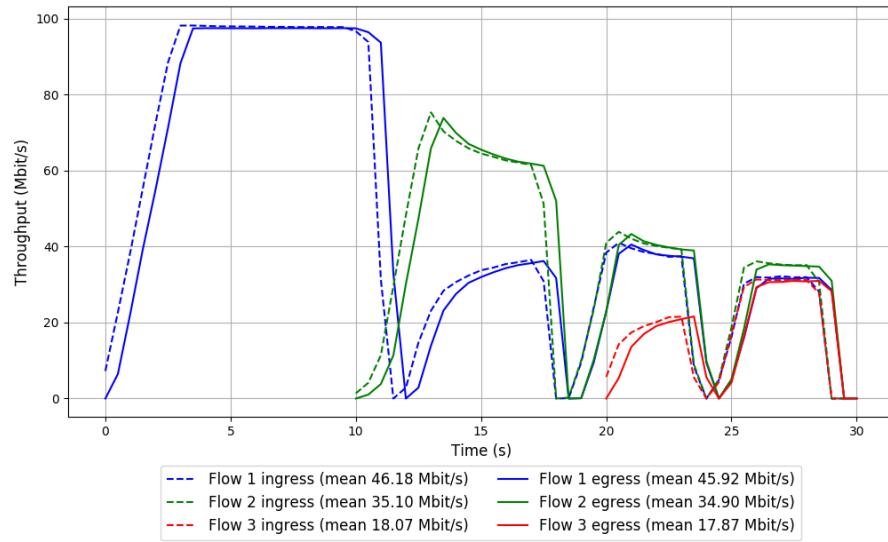
Run 4: Report of Indigo-MusesT — Data Link

- - - Flow 1 ingress (mean 63.44 Mbit/s)   —— Flow 1 egress (mean 61.44 Mbit/s)
- - - Flow 2 ingress (mean 41.26 Mbit/s)   —— Flow 2 egress (mean 38.38 Mbit/s)
- - - Flow 3 ingress (mean 37.52 Mbit/s)   —— Flow 3 egress (mean 31.00 Mbit/s)

- Flow 1 (95th percentile 33.76 ms)   • Flow 2 (95th percentile 37.30 ms)   • Flow 3 (95th percentile 43.52 ms)

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-27 01:27:53
End at: 2019-08-27 01:28:23
Local clock offset: -1.178 ms
Remote clock offset: -1.559 ms


# Below is generated by plot.py at 2019-08-27 01:40:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 39.882 ms
Loss rate: 5.46%
-- Flow 1:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 36.785 ms
Loss rate: 3.08%
-- Flow 2:
Average throughput: 37.22 Mbit/s
95th percentile per-packet one-way delay: 39.052 ms
Loss rate: 6.73%
-- Flow 3:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: 45.128 ms
Loss rate: 16.93%
```

Run 5: Report of Indigo-MusesT — Data Link
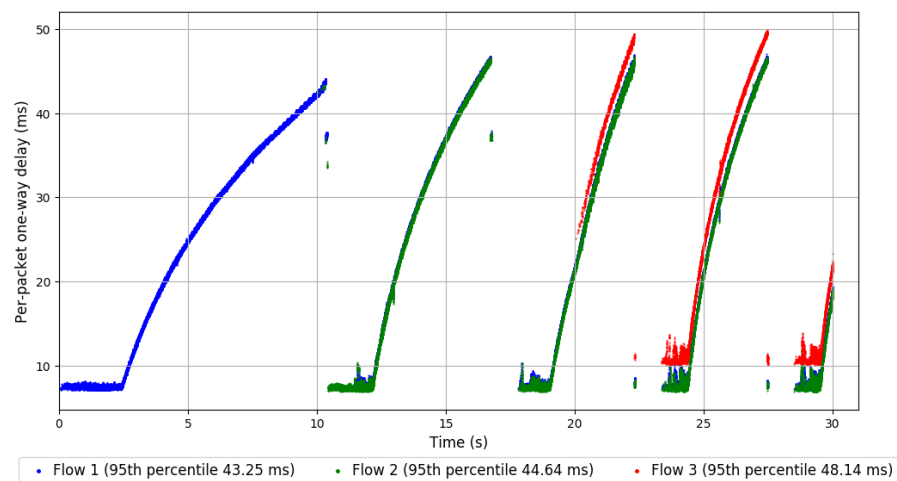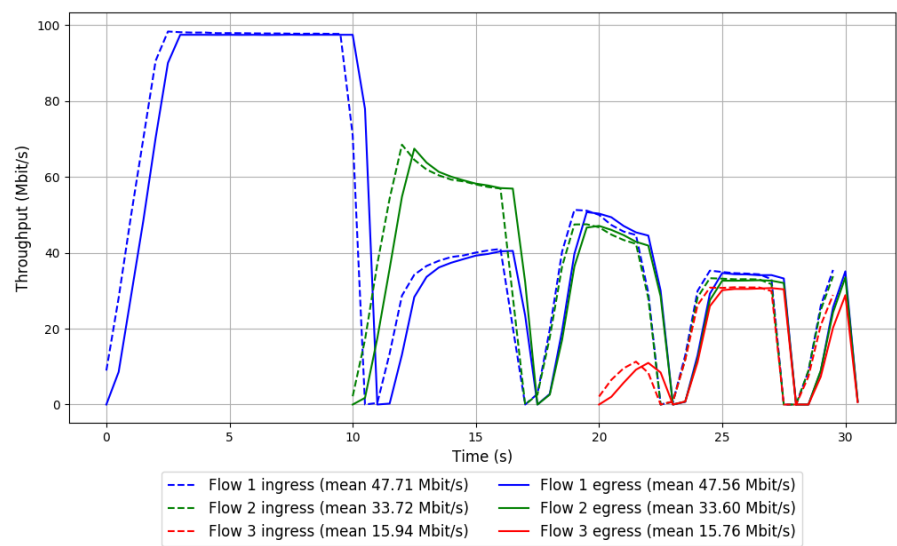

- - - - Flow 1 ingress (mean 64.54 Mbit/s) ——— Flow 1 egress (mean 62.50 Mbit/s)
- - - - Flow 2 ingress (mean 39.95 Mbit/s) ——— Flow 2 egress (mean 37.22 Mbit/s)
- - - - Flow 3 ingress (mean 35.89 Mbit/s) ——— Flow 3 egress (mean 29.73 Mbit/s)

• Flow 1 (95th percentile 36.78 ms)   • Flow 2 (95th percentile 39.05 ms)   • Flow 3 (95th percentile 45.13 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2019-08-26 23:26:44
End at: 2019-08-26 23:27:14
Local clock offset: -1.845 ms
Remote clock offset: -1.331 ms


# Below is generated by plot.py at 2019-08-27 01:40:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.02 Mbit/s
95th percentile per-packet one-way delay: 46.533 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 45.70 Mbit/s
95th percentile per-packet one-way delay: 47.641 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 45.54 Mbit/s
95th percentile per-packet one-way delay: 45.482 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 15.672 ms
Loss rate: 39.33%
```
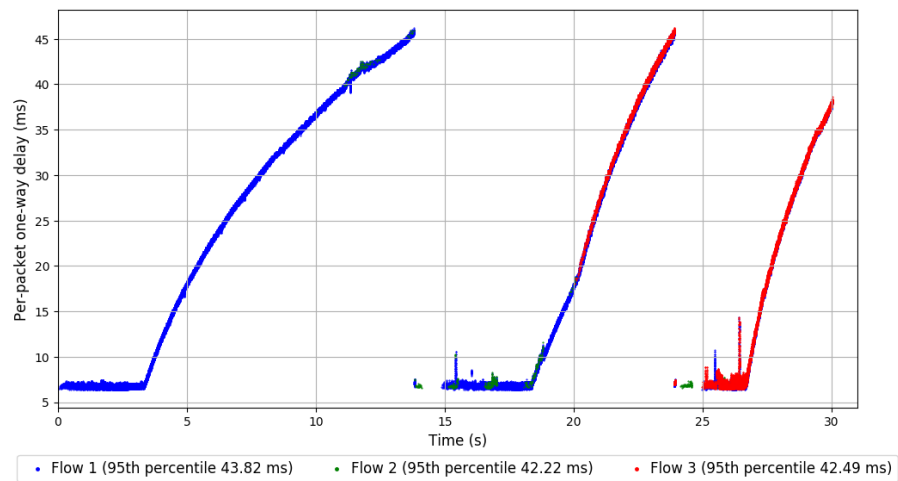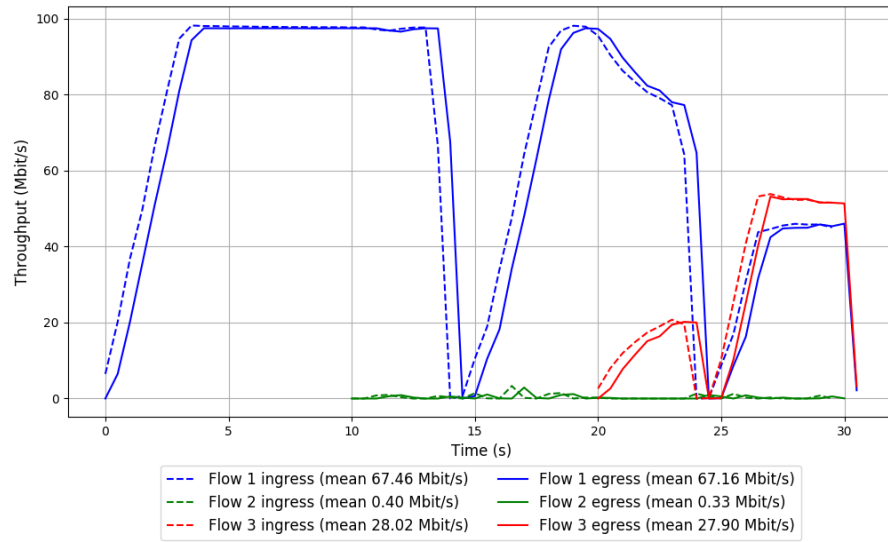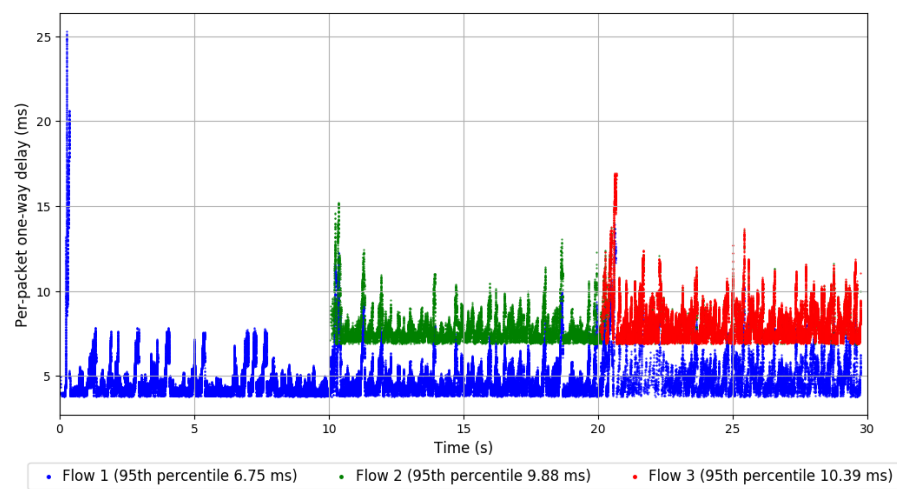
Run 1: Report of LEDBAT — Data Link

- - - Flow 1 ingress (mean 45.93 Mbit/s) ——— Flow 1 egress (mean 45.70 Mbit/s)
- - - Flow 2 ingress (mean 45.77 Mbit/s) ——— Flow 2 egress (mean 45.54 Mbit/s)
- - - Flow 3 ingress (mean 0.03 Mbit/s) ——— Flow 3 egress (mean 0.78 Mbit/s)

• Flow 1 (95th percentile 47.64 ms)   • Flow 2 (95th percentile 45.48 ms)   • Flow 3 (95th percentile 15.67 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2019-08-26 23:54:48
End at: 2019-08-26 23:55:18
Local clock offset: -0.495 ms
Remote clock offset: -2.614 ms


# Below is generated by plot.py at 2019-08-27 01:40:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.08 Mbit/s
95th percentile per-packet one-way delay: 43.977 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 44.697 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 36.96 Mbit/s
95th percentile per-packet one-way delay: 42.678 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 18.17 Mbit/s
95th percentile per-packet one-way delay: 46.055 ms
Loss rate: 1.34%
```
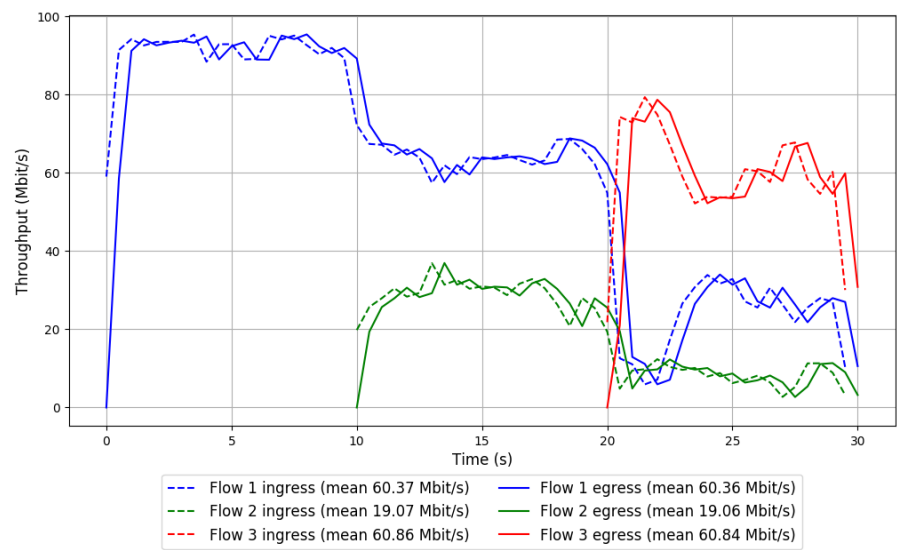
Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 44.70 Mbit/s) ---- Flow 1 egress (mean 44.46 Mbit/s)
Flow 2 ingress (mean 37.18 Mbit/s) ---- Flow 2 egress (mean 36.96 Mbit/s)
Flow 3 ingress (mean 18.42 Mbit/s) ---- Flow 3 egress (mean 18.17 Mbit/s)

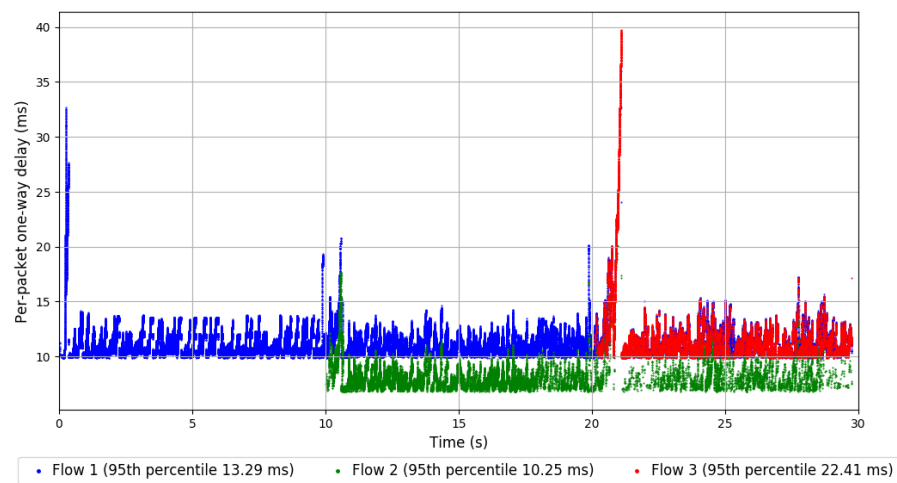Flow 1 (95th percentile 44.70 ms)   Flow 2 (95th percentile 42.68 ms)   Flow 3 (95th percentile 46.05 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2019-08-27 00:22:57
End at: 2019-08-27 00:23:27
Local clock offset: -3.492 ms
Remote clock offset: -2.46 ms


# Below is generated by plot.py at 2019-08-27 01:40:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.05 Mbit/s
95th percentile per-packet one-way delay: 46.837 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 45.92 Mbit/s
95th percentile per-packet one-way delay: 47.956 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 34.90 Mbit/s
95th percentile per-packet one-way delay: 45.815 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 17.87 Mbit/s
95th percentile per-packet one-way delay: 46.058 ms
Loss rate: 1.14%
```

Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 46.18 Mbit/s) — Flow 1 egress (mean 45.92 Mbit/s)
Flow 2 ingress (mean 35.10 Mbit/s) — Flow 2 egress (mean 34.90 Mbit/s)
Flow 3 ingress (mean 18.07 Mbit/s) — Flow 3 egress (mean 17.87 Mbit/s)

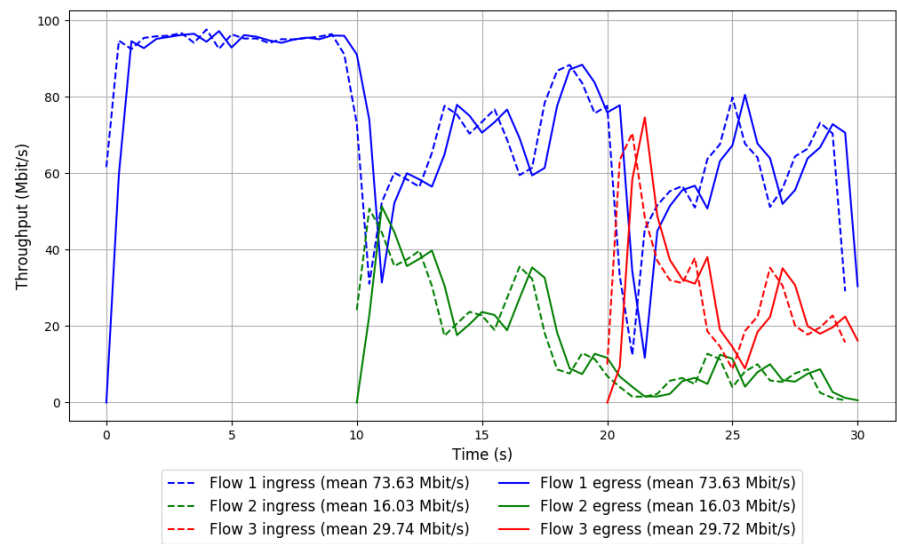Flow 1 (95th percentile 47.96 ms) — Flow 2 (95th percentile 45.81 ms) — Flow 3 (95th percentile 46.06 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2019-08-27 00:51:21
End at: 2019-08-27 00:51:51
Local clock offset: -2.925 ms
Remote clock offset: -1.821 ms


# Below is generated by plot.py at 2019-08-27 01:40:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 44.244 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 47.56 Mbit/s
95th percentile per-packet one-way delay: 43.253 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 33.60 Mbit/s
95th percentile per-packet one-way delay: 44.639 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 15.76 Mbit/s
95th percentile per-packet one-way delay: 48.137 ms
Loss rate: 1.23%
```

Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2019-08-27 01:19:33
End at: 2019-08-27 01:20:03
Local clock offset: -5.189 ms
Remote clock offset: -8.029 ms

# Below is generated by plot.py at 2019-08-27 01:40:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 43.750 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 67.16 Mbit/s
95th percentile per-packet one-way delay: 43.821 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 42.217 ms
Loss rate: 18.88%
-- Flow 3:
Average throughput: 27.90 Mbit/s
95th percentile per-packet one-way delay: 42.494 ms
Loss rate: 0.26%
```

Run 5: Report of LEDBAT — Data Link

- - - - Flow 1 ingress (mean 67.46 Mbit/s)   —— Flow 1 egress (mean 67.16 Mbit/s)
- - - - Flow 2 ingress (mean 0.40 Mbit/s)   —— Flow 2 egress (mean 0.33 Mbit/s)
- - - - Flow 3 ingress (mean 28.02 Mbit/s)   —— Flow 3 egress (mean 27.90 Mbit/s)

• Flow 1 (95th percentile 43.82 ms)   • Flow 2 (95th percentile 42.22 ms)   • Flow 3 (95th percentile 42.49 ms)

```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-26 23:10:32
End at: 2019-08-26 23:11:02
Local clock offset: 0.156 ms
Remote clock offset: -4.135 ms


# Below is generated by plot.py at 2019-08-27 01:41:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 9.218 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 60.36 Mbit/s
95th percentile per-packet one-way delay: 6.747 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 9.884 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.84 Mbit/s
95th percentile per-packet one-way delay: 10.394 ms
Loss rate: 0.03%
```
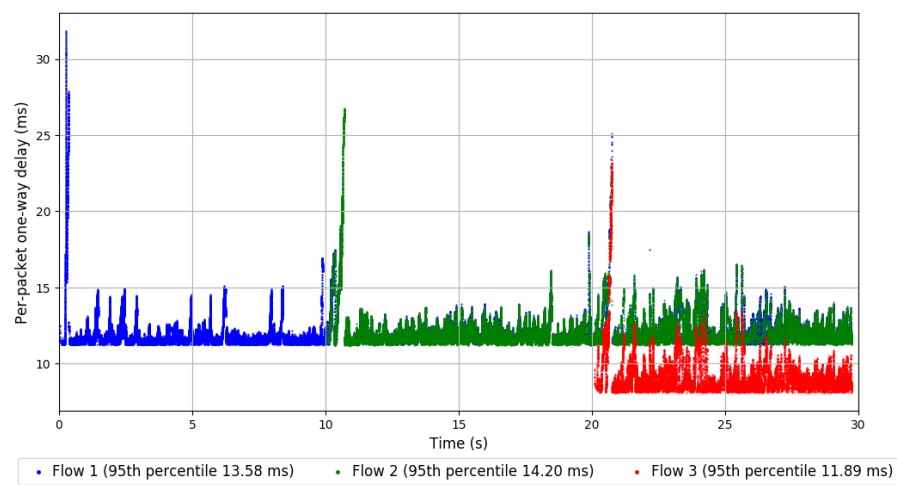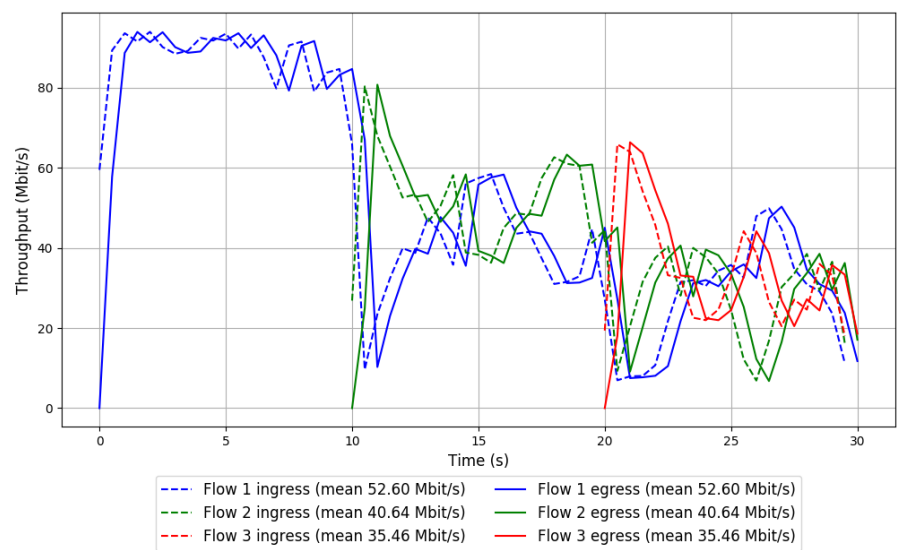
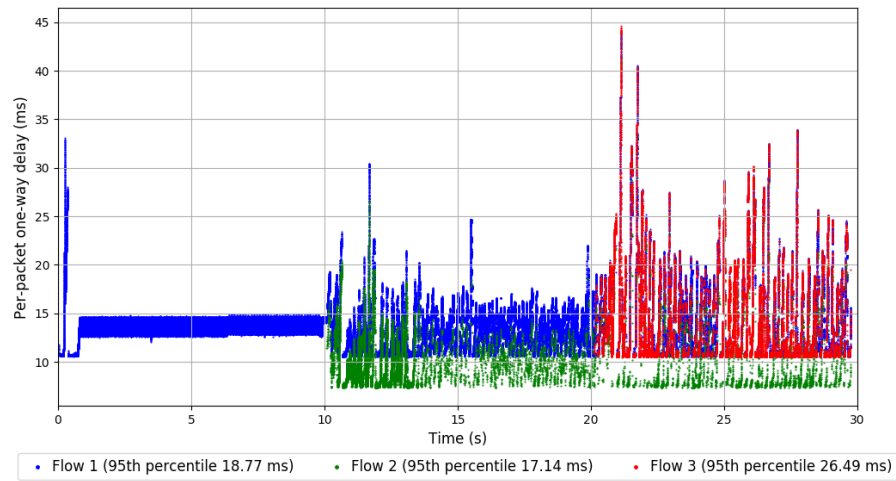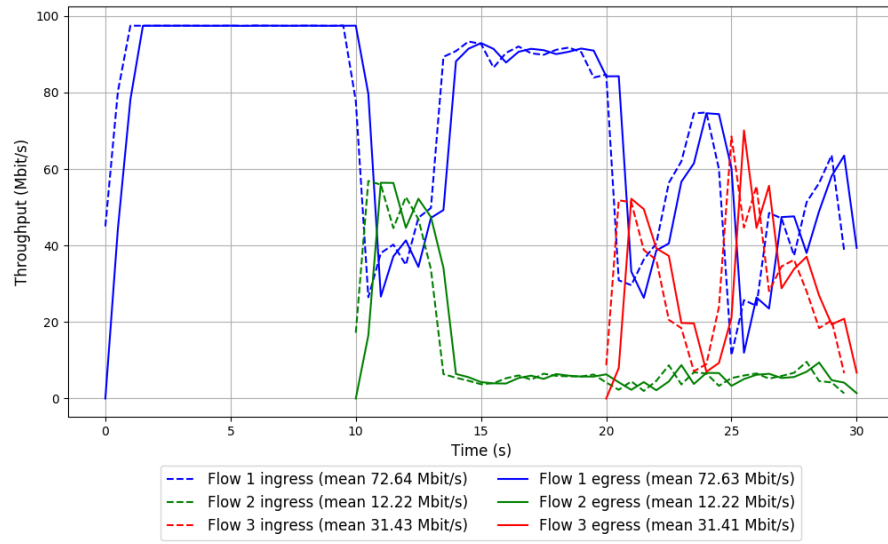Run 1: Report of Muses_DecisionTree — Data Link

```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-08-26 23:38:33
End at: 2019-08-26 23:39:03
Local clock offset: -1.684 ms
Remote clock offset: -2.274 ms


# Below is generated by plot.py at 2019-08-27 01:41:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.66 Mbit/s
95th percentile per-packet one-way delay: 12.509 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 12.979 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.43 Mbit/s
95th percentile per-packet one-way delay: 12.517 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.99 Mbit/s
95th percentile per-packet one-way delay: 9.993 ms
Loss rate: 0.00%
```
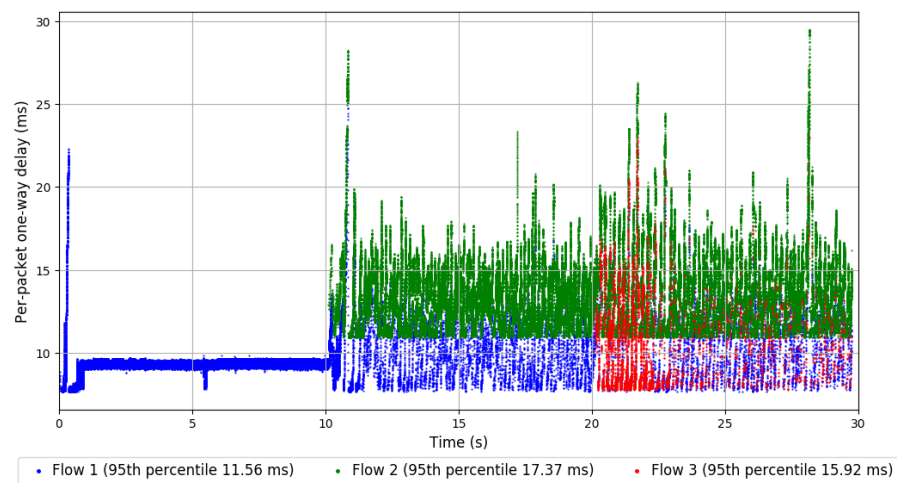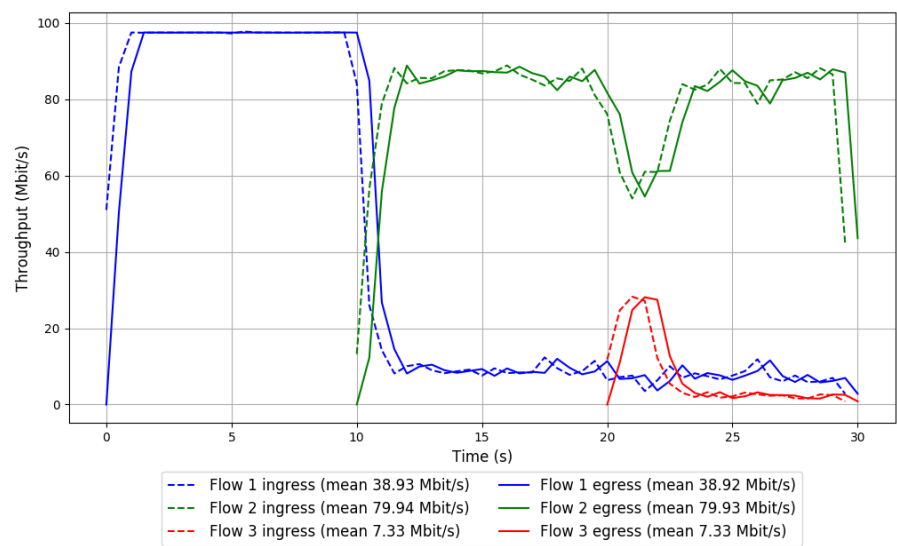
Run 2: Report of Muses_DecisionTree — Data Link

```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 00:06:43
End at: 2019-08-27 00:07:13
Local clock offset: -2.927 ms
Remote clock offset: -2.644 ms


# Below is generated by plot.py at 2019-08-27 01:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 13.400 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 73.63 Mbit/s
95th percentile per-packet one-way delay: 13.290 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 10.249 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.72 Mbit/s
95th percentile per-packet one-way delay: 22.406 ms
Loss rate: 0.04%
```
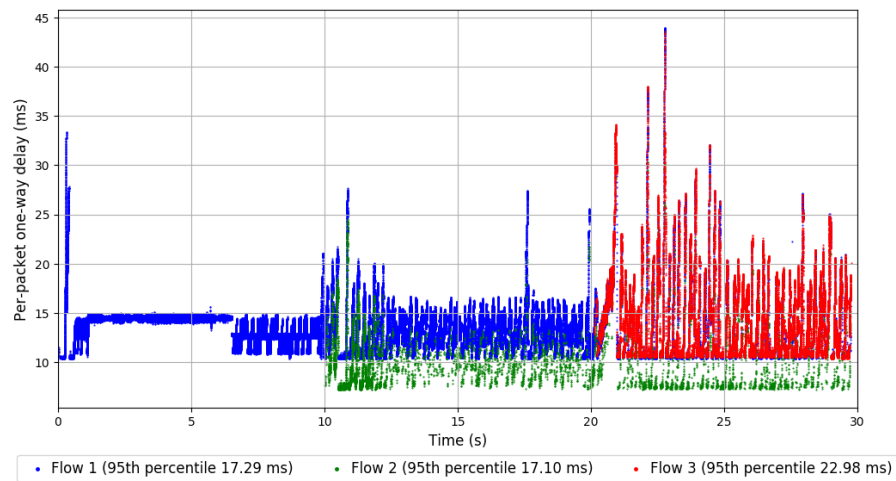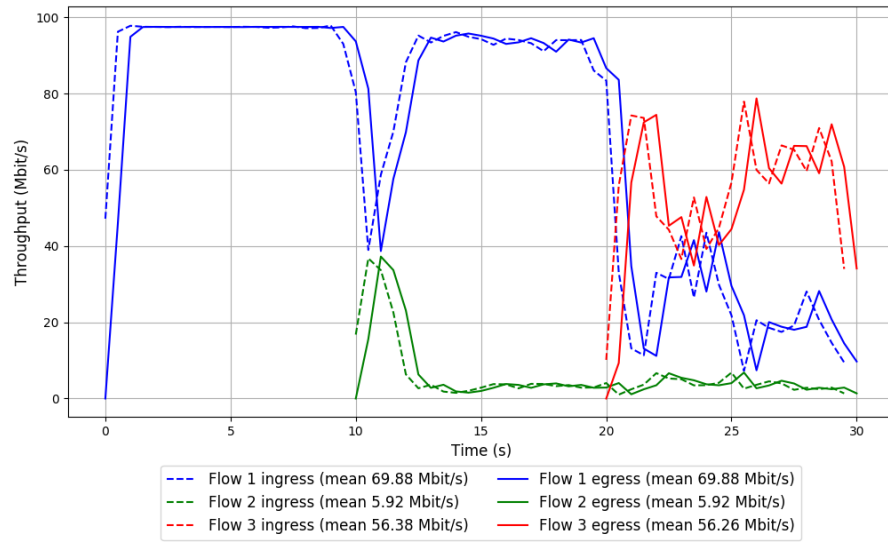
Run 3: Report of Muses_DecisionTree — Data Link

```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 00:34:46
End at: 2019-08-27 00:35:16
Local clock offset: -2.887 ms
Remote clock offset: -1.696 ms


# Below is generated by plot.py at 2019-08-27 01:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 13.051 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.41 Mbit/s
95th percentile per-packet one-way delay: 10.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.07 Mbit/s
95th percentile per-packet one-way delay: 13.540 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 18.734 ms
Loss rate: 0.03%
```

Run 4: Report of Muses_DecisionTree — Data Link

```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 01:03:14
End at: 2019-08-27 01:03:44
Local clock offset: -2.04 ms
Remote clock offset: 0.17 ms


# Below is generated by plot.py at 2019-08-27 01:41:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.06 Mbit/s
95th percentile per-packet one-way delay: 13.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 13.578 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 14.204 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 11.895 ms
Loss rate: 0.00%
```
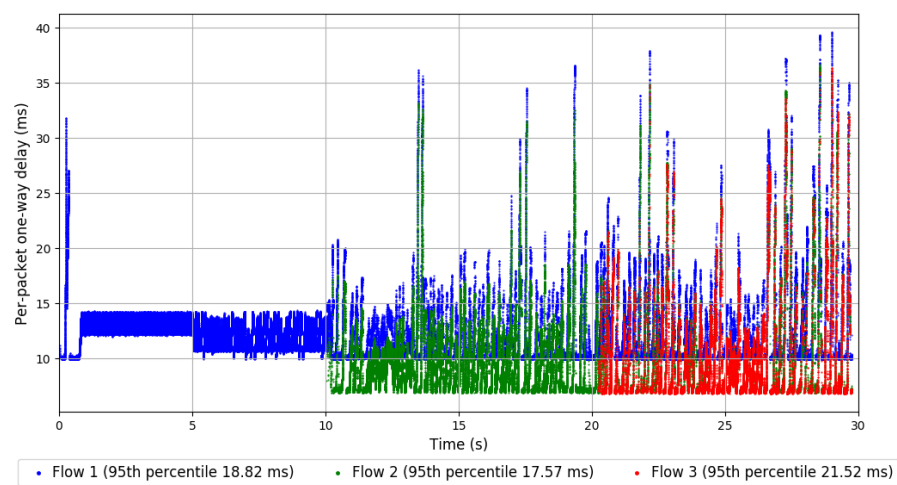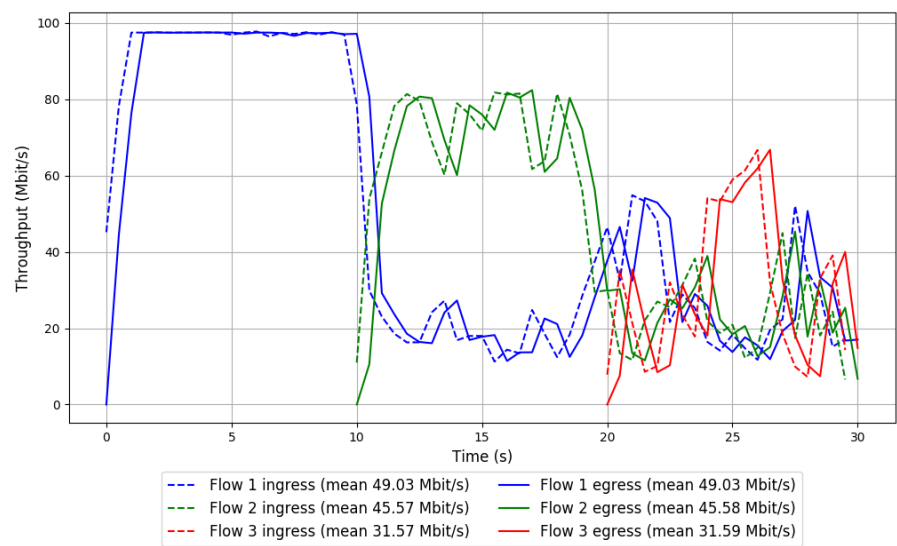
Run 5: Report of Muses_DecisionTree — Data Link

```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-26 23:16:19
End at: 2019-08-26 23:16:49
Local clock offset: -1.812 ms
Remote clock offset: -2.123 ms


# Below is generated by plot.py at 2019-08-27 01:41:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 19.978 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 72.63 Mbit/s
95th percentile per-packet one-way delay: 18.770 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 17.139 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 26.488 ms
Loss rate: 0.01%
```
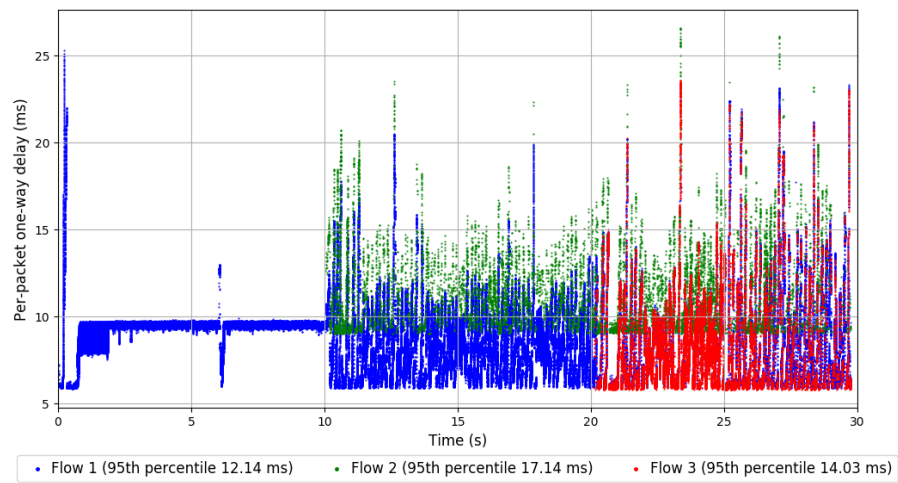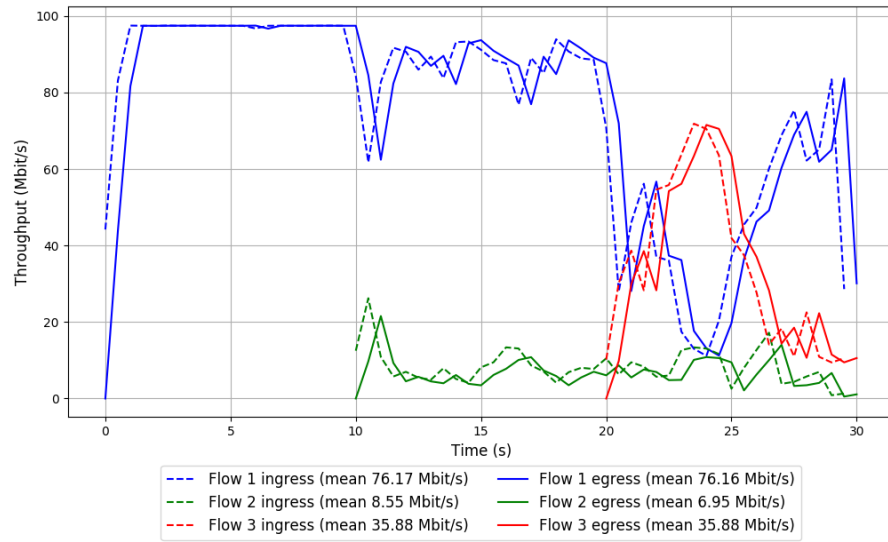
Run 1: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 72.64 Mbit/s) Flow 1 egress (mean 72.63 Mbit/s)
Flow 2 ingress (mean 12.22 Mbit/s) Flow 2 egress (mean 12.22 Mbit/s)
Flow 3 ingress (mean 31.43 Mbit/s) Flow 3 egress (mean 31.41 Mbit/s)

Flow 1 (95th percentile 18.77 ms)   Flow 2 (95th percentile 17.14 ms)   Flow 3 (95th percentile 26.49 ms)

```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-26 23:44:20
End at: 2019-08-26 23:44:50
Local clock offset: -1.919 ms
Remote clock offset: -1.029 ms


# Below is generated by plot.py at 2019-08-27 01:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 16.427 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 11.558 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 79.93 Mbit/s
95th percentile per-packet one-way delay: 17.366 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 7.33 Mbit/s
95th percentile per-packet one-way delay: 15.916 ms
Loss rate: 0.00%
```
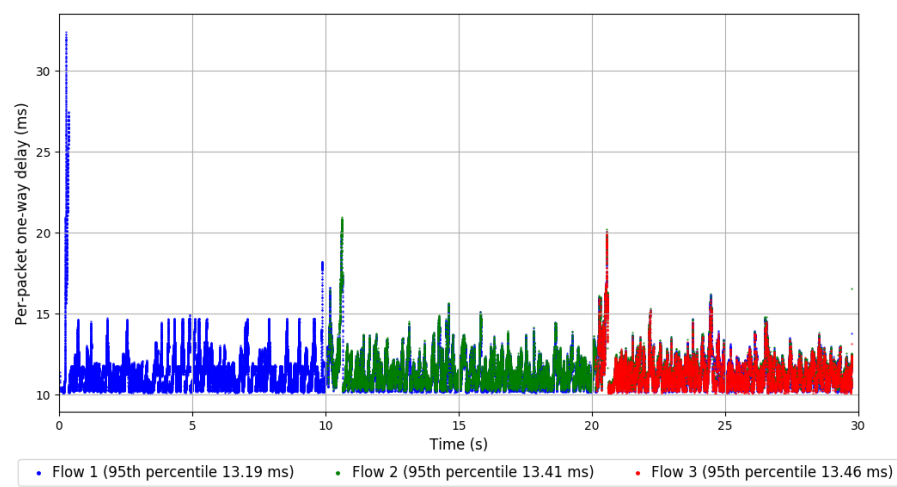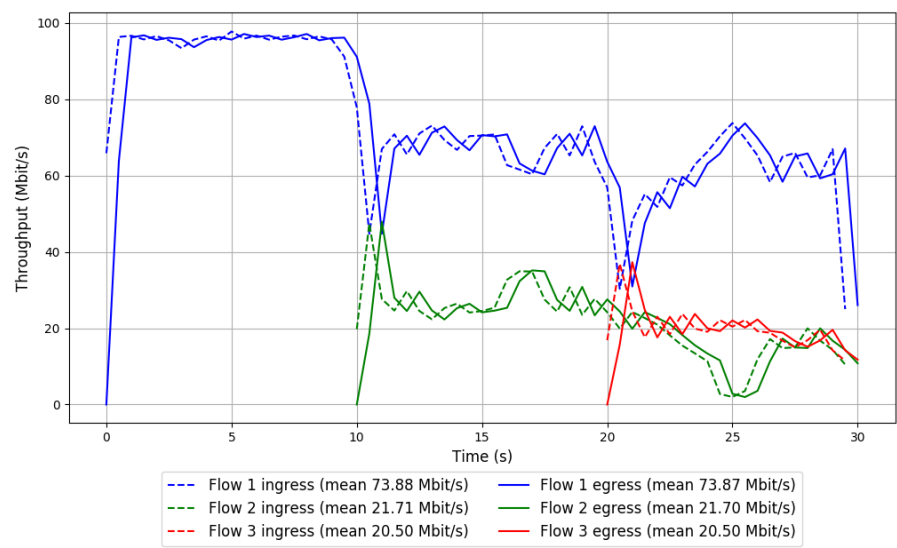
Run 2: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 38.93 Mbit/s) --- Flow 1 egress (mean 38.92 Mbit/s)
Flow 2 ingress (mean 79.94 Mbit/s) --- Flow 2 egress (mean 79.93 Mbit/s)
Flow 3 ingress (mean 7.33 Mbit/s) --- Flow 3 egress (mean 7.33 Mbit/s)

Flow 1 (95th percentile 11.56 ms)   Flow 2 (95th percentile 17.37 ms)   Flow 3 (95th percentile 15.92 ms)

```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 00:12:31
End at: 2019-08-27 00:13:01
Local clock offset: -3.639 ms
Remote clock offset: -2.847 ms


# Below is generated by plot.py at 2019-08-27 01:41:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.04 Mbit/s
95th percentile per-packet one-way delay: 19.311 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 69.88 Mbit/s
95th percentile per-packet one-way delay: 17.288 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.92 Mbit/s
95th percentile per-packet one-way delay: 17.104 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.26 Mbit/s
95th percentile per-packet one-way delay: 22.983 ms
Loss rate: 0.17%
```
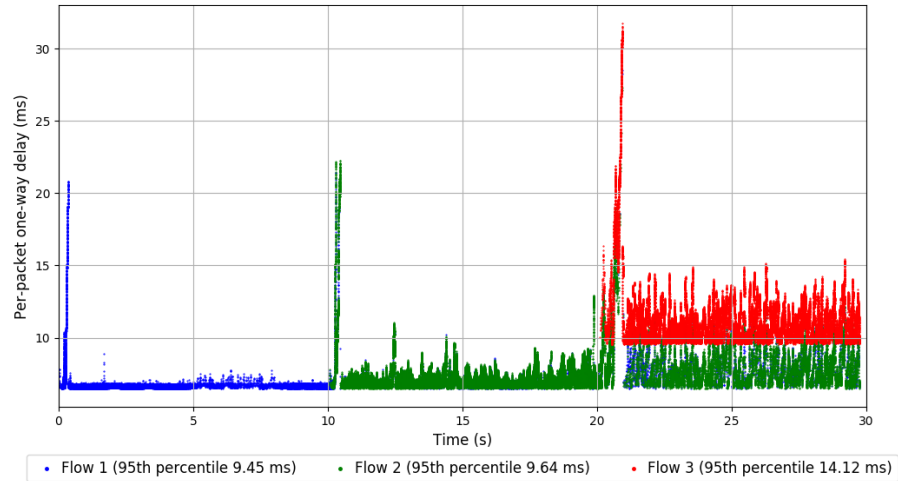
Run 3: Report of Muses_DecisionTreeH0 — Data Link

```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 00:40:34
End at: 2019-08-27 00:41:04
Local clock offset: -2.823 ms
Remote clock offset: -1.851 ms


# Below is generated by plot.py at 2019-08-27 01:42:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.39 Mbit/s
95th percentile per-packet one-way delay: 18.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 18.815 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.58 Mbit/s
95th percentile per-packet one-way delay: 17.565 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 21.524 ms
Loss rate: 0.00%
```
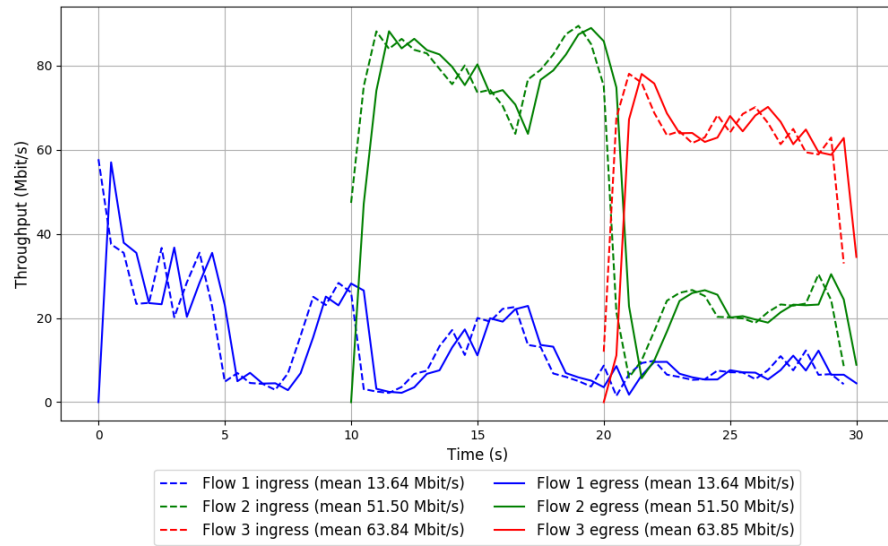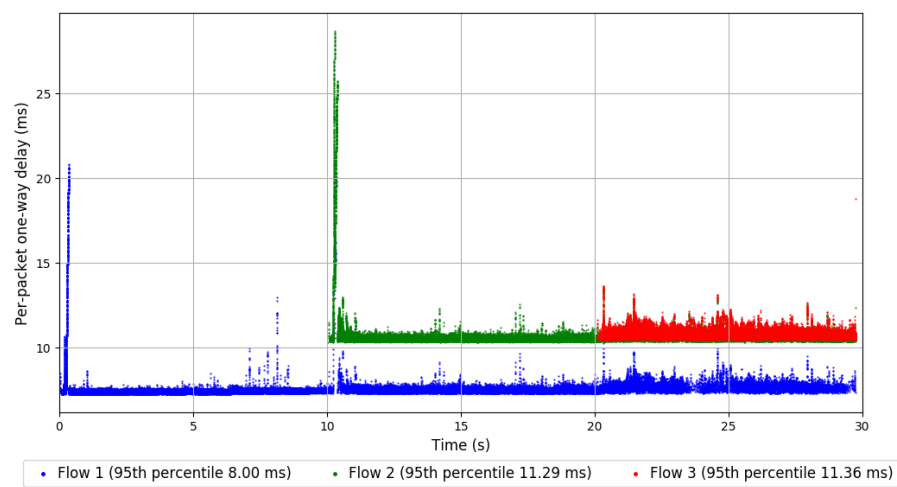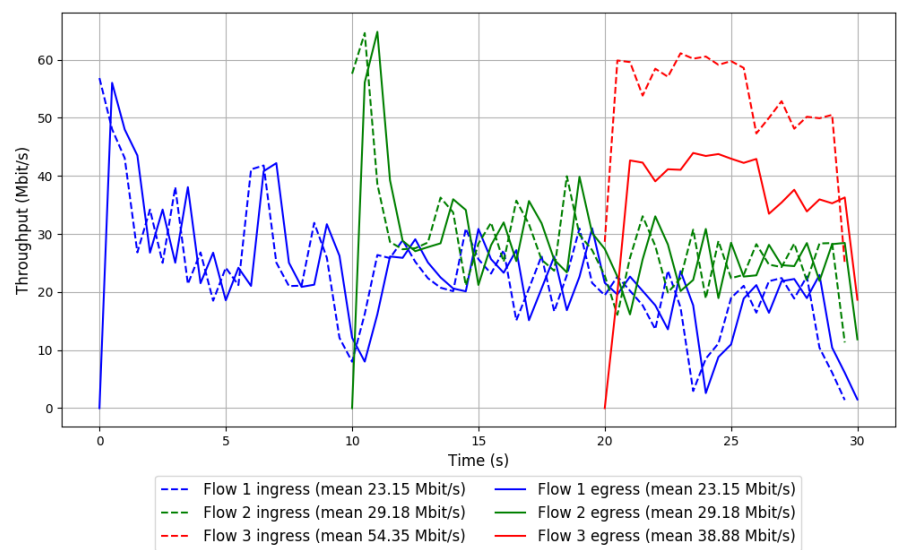
Run 4: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 49.03 Mbit/s) ---- Flow 1 egress (mean 49.03 Mbit/s)
Flow 2 ingress (mean 45.57 Mbit/s) ---- Flow 2 egress (mean 45.58 Mbit/s)
Flow 3 ingress (mean 31.57 Mbit/s) ---- Flow 3 egress (mean 31.59 Mbit/s)

Flow 1 (95th percentile 18.82 ms) • Flow 2 (95th percentile 17.57 ms) • Flow 3 (95th percentile 21.52 ms)

```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 01:09:01
End at: 2019-08-27 01:09:31
Local clock offset: 0.175 ms
Remote clock offset: -0.008 ms


# Below is generated by plot.py at 2019-08-27 01:42:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.39 Mbit/s
95th percentile per-packet one-way delay: 13.156 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 76.16 Mbit/s
95th percentile per-packet one-way delay: 12.137 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 17.144 ms
Loss rate: 18.81%
-- Flow 3:
Average throughput: 35.88 Mbit/s
95th percentile per-packet one-way delay: 14.028 ms
Loss rate: 0.00%
```
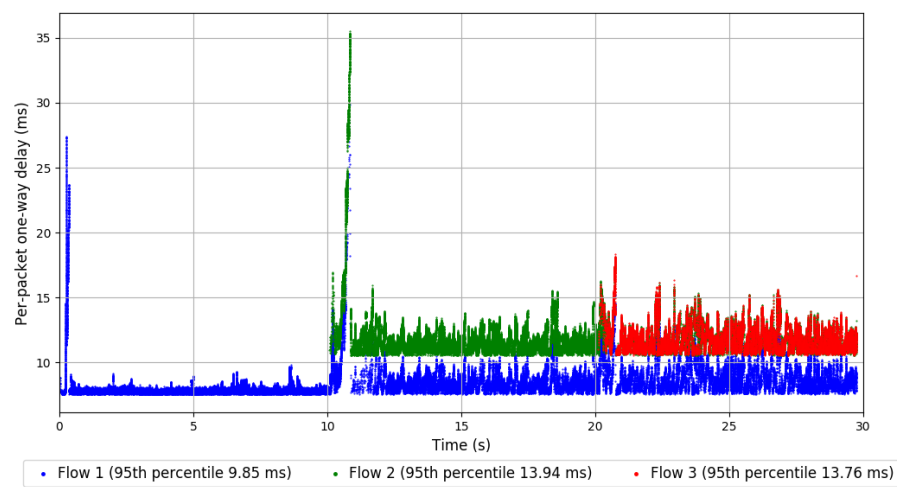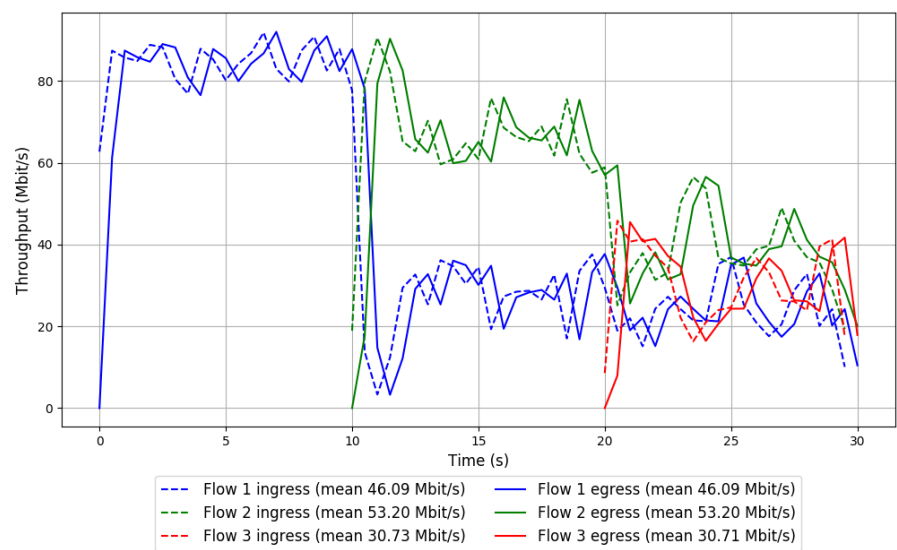
Run 5: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 76.17 Mbit/s)   Flow 1 egress (mean 76.16 Mbit/s)
Flow 2 ingress (mean 8.55 Mbit/s)   Flow 2 egress (mean 6.95 Mbit/s)
Flow 3 ingress (mean 35.88 Mbit/s)   Flow 3 egress (mean 35.88 Mbit/s)

Flow 1 (95th percentile 12.14 ms)   Flow 2 (95th percentile 17.14 ms)   Flow 3 (95th percentile 14.03 ms)

```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-26 23:29:02
End at: 2019-08-26 23:29:32
Local clock offset: -2.08 ms
Remote clock offset: -2.149 ms


# Below is generated by plot.py at 2019-08-27 01:42:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.93 Mbit/s
95th percentile per-packet one-way delay: 13.214 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 73.87 Mbit/s
95th percentile per-packet one-way delay: 13.190 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 21.70 Mbit/s
95th percentile per-packet one-way delay: 13.414 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 13.457 ms
Loss rate: 0.04%
```
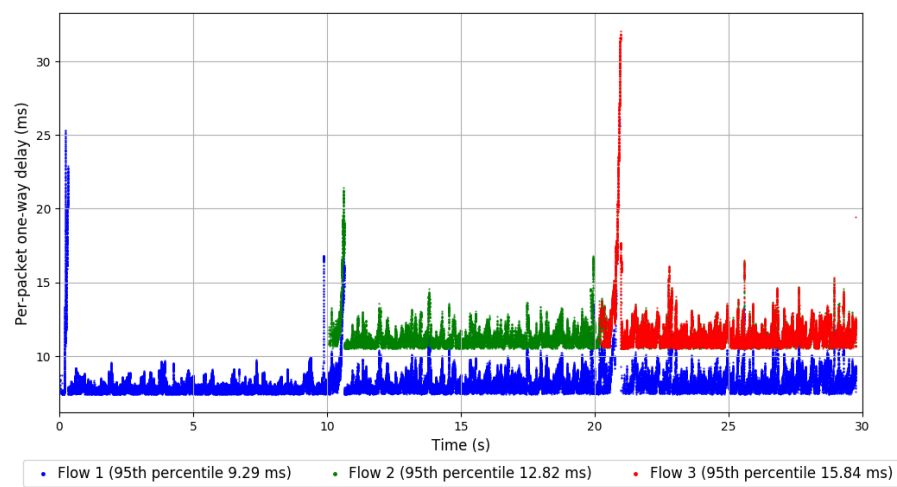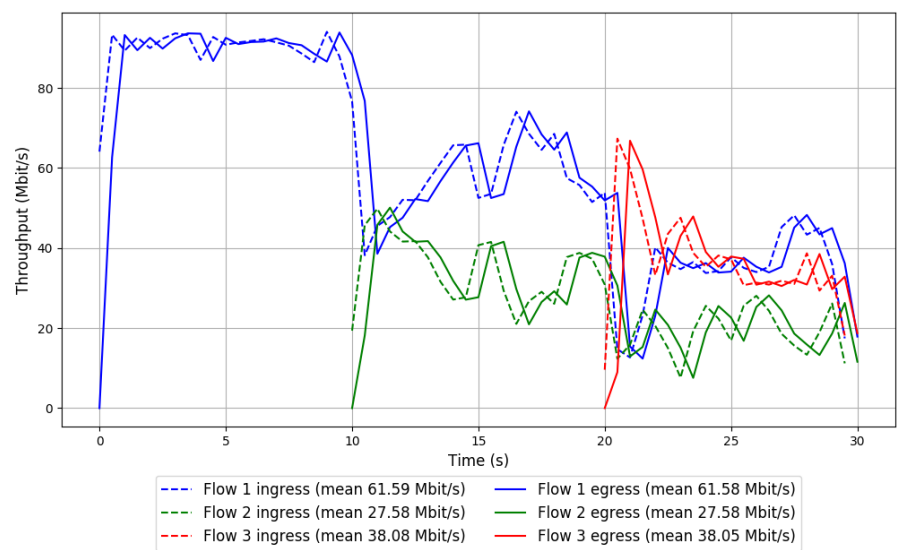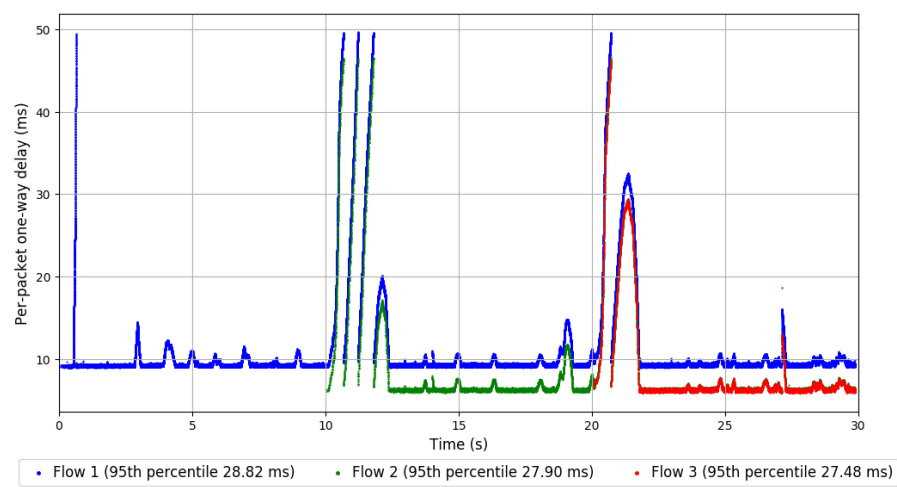
Run 1: Report of Muses_DecisionTreeR0 — Data Link

Flow 1 ingress (mean 73.88 Mbit/s) --- Flow 1 egress (mean 73.87 Mbit/s)
Flow 2 ingress (mean 21.71 Mbit/s) --- Flow 2 egress (mean 21.70 Mbit/s)
Flow 3 ingress (mean 20.50 Mbit/s) --- Flow 3 egress (mean 20.50 Mbit/s)

Flow 1 (95th percentile 13.19 ms)   Flow 2 (95th percentile 13.41 ms)   Flow 3 (95th percentile 13.46 ms)

```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-26 23:57:16
End at: 2019-08-26 23:57:46
Local clock offset: -2.312 ms
Remote clock offset: -2.53 ms


# Below is generated by plot.py at 2019-08-27 01:42:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.46 Mbit/s
95th percentile per-packet one-way delay: 12.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.64 Mbit/s
95th percentile per-packet one-way delay: 9.452 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.50 Mbit/s
95th percentile per-packet one-way delay: 9.644 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.85 Mbit/s
95th percentile per-packet one-way delay: 14.125 ms
Loss rate: 0.00%
```

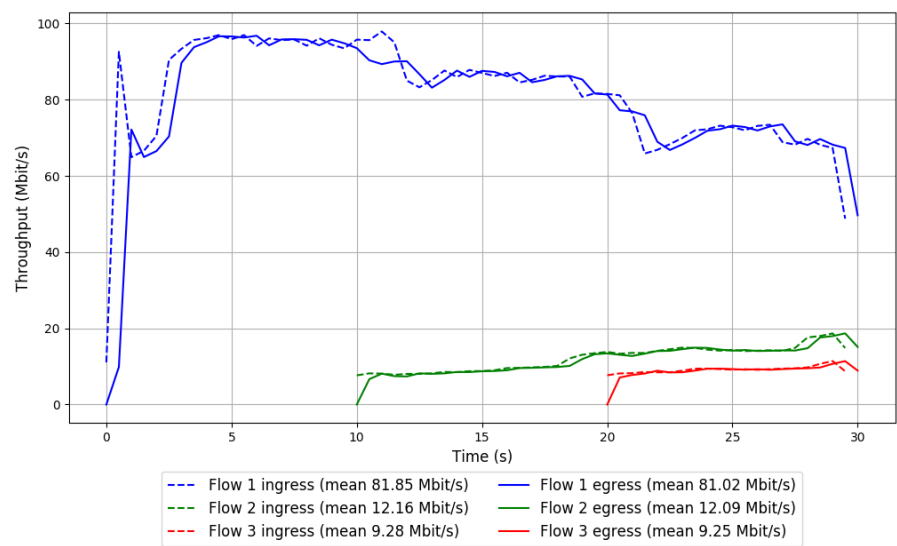Run 2: Report of Muses_DecisionTreeR0 — Data Link

```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 00:25:16
End at: 2019-08-27 00:25:46
Local clock offset: -2.074 ms
Remote clock offset: -1.525 ms


# Below is generated by plot.py at 2019-08-27 01:42:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.11 Mbit/s
95th percentile per-packet one-way delay: 11.177 ms
Loss rate: 8.35%
-- Flow 1:
Average throughput: 23.15 Mbit/s
95th percentile per-packet one-way delay: 7.998 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.18 Mbit/s
95th percentile per-packet one-way delay: 11.294 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 38.88 Mbit/s
95th percentile per-packet one-way delay: 11.361 ms
Loss rate: 28.44%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 00:53:41
End at: 2019-08-27 00:54:11
Local clock offset: -3.503 ms
Remote clock offset: -2.008 ms


# Below is generated by plot.py at 2019-08-27 01:42:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 13.114 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 46.09 Mbit/s
95th percentile per-packet one-way delay: 9.853 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 53.20 Mbit/s
95th percentile per-packet one-way delay: 13.937 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 30.71 Mbit/s
95th percentile per-packet one-way delay: 13.756 ms
Loss rate: 0.04%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 01:21:53
End at: 2019-08-27 01:22:23
Local clock offset: -0.865 ms
Remote clock offset: 0.356 ms


# Below is generated by plot.py at 2019-08-27 01:42:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 12.277 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 61.58 Mbit/s
95th percentile per-packet one-way delay: 9.293 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 12.819 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 38.05 Mbit/s
95th percentile per-packet one-way delay: 15.844 ms
Loss rate: 0.03%
```
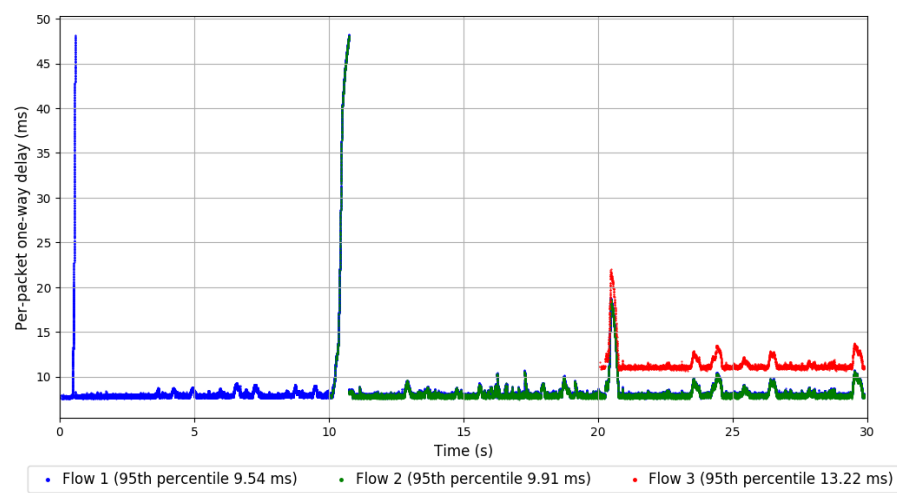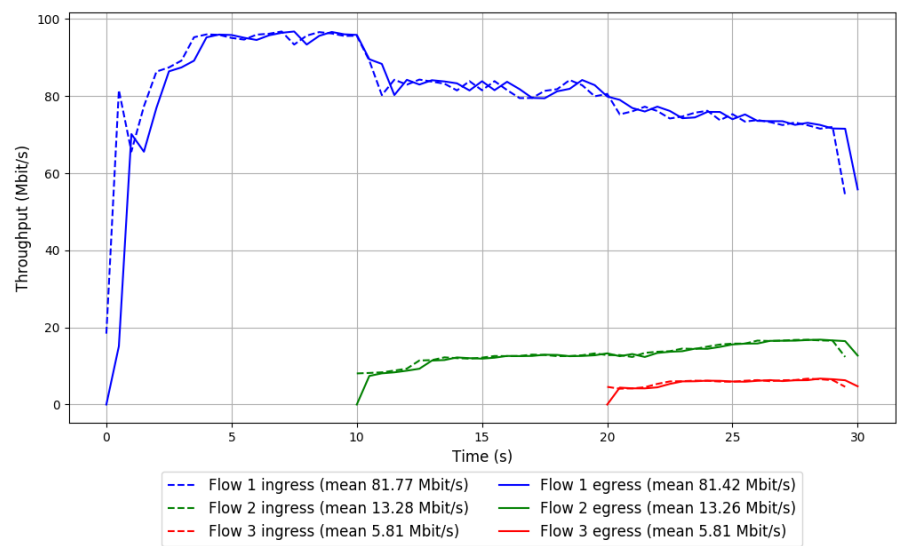
Run 5: Report of Muses_DecisionTreeR0 — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-08-26 23:22:06
End at: 2019-08-26 23:22:36
Local clock offset: -0.45 ms
Remote clock offset: -1.905 ms


# Below is generated by plot.py at 2019-08-27 01:43:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.11 Mbit/s
95th percentile per-packet one-way delay: 28.436 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 81.02 Mbit/s
95th percentile per-packet one-way delay: 28.821 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 27.900 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 27.477 ms
Loss rate: 0.36%
```
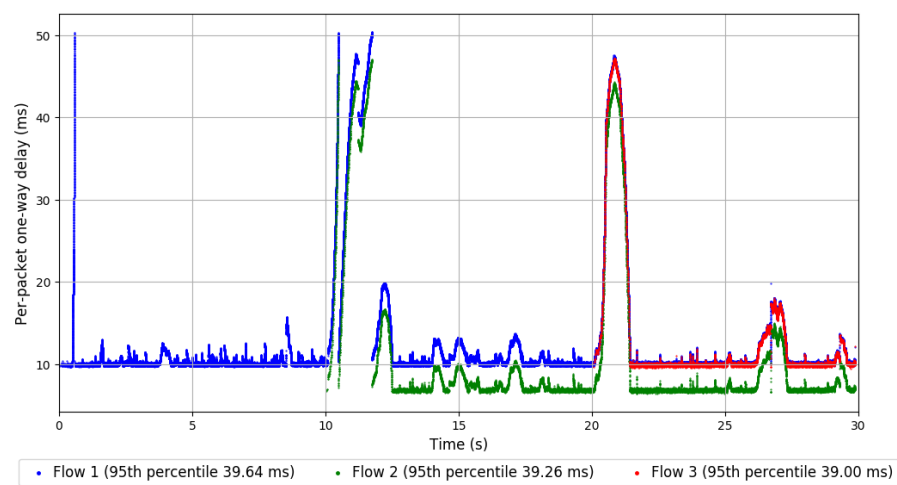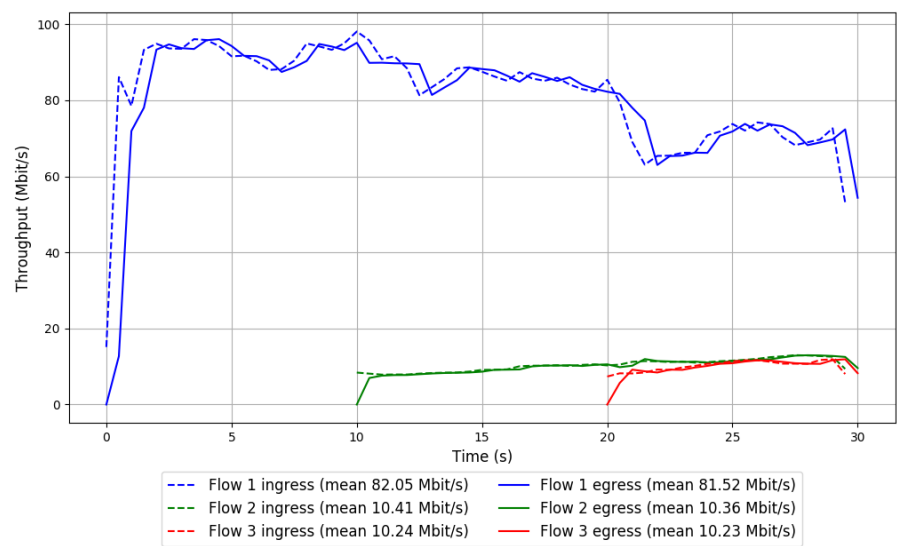
Run 1: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 81.85 Mbit/s) ---- Flow 1 egress (mean 81.02 Mbit/s)
Flow 2 ingress (mean 12.16 Mbit/s) ---- Flow 2 egress (mean 12.09 Mbit/s)
Flow 3 ingress (mean 9.28 Mbit/s) ---- Flow 3 egress (mean 9.25 Mbit/s)

Flow 1 (95th percentile 28.82 ms)   Flow 2 (95th percentile 27.90 ms)   Flow 3 (95th percentile 27.48 ms)

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-08-26 23:50:08
End at: 2019-08-26 23:50:38
Local clock offset: -2.282 ms
Remote clock offset: -0.456 ms


# Below is generated by plot.py at 2019-08-27 01:43:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 30.088 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 79.81 Mbit/s
95th percentile per-packet one-way delay: 30.422 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 17.68 Mbit/s
95th percentile per-packet one-way delay: 27.802 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 32.247 ms
Loss rate: 0.00%
```
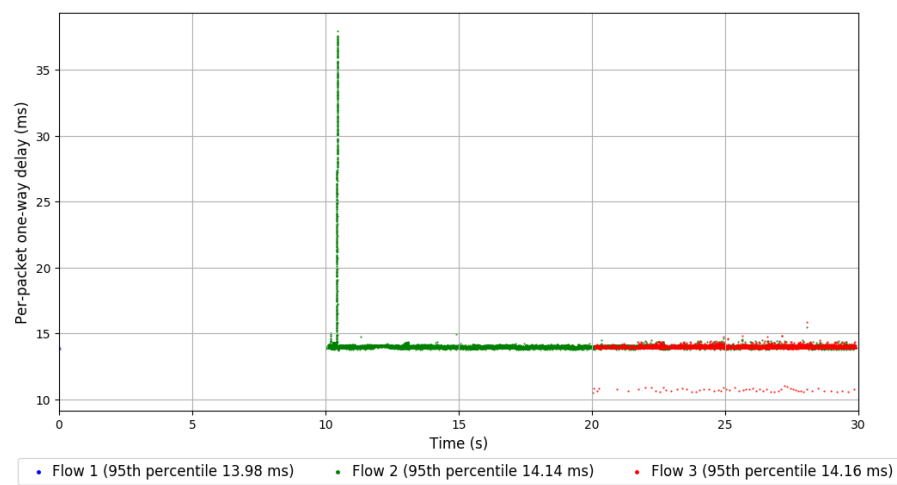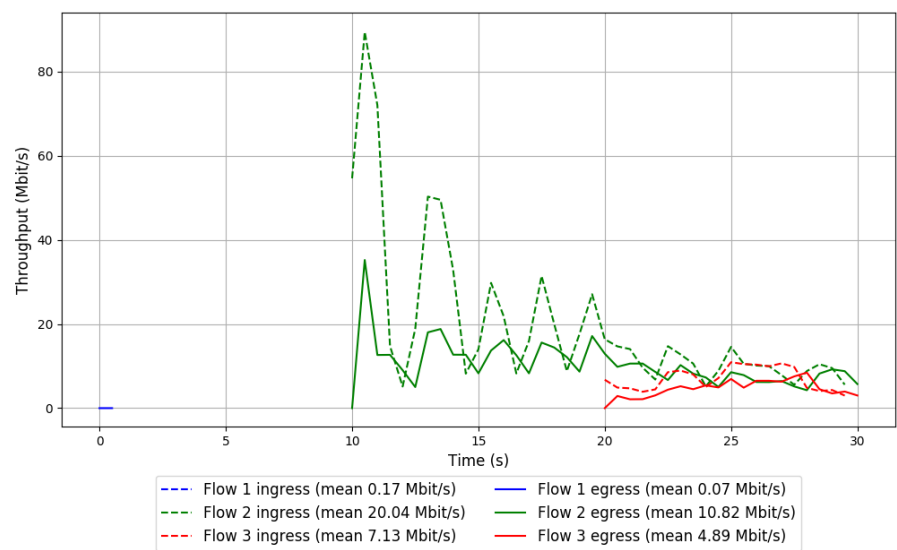
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 00:18:18
End at: 2019-08-27 00:18:48
Local clock offset: -3.707 ms
Remote clock offset: -2.434 ms


# Below is generated by plot.py at 2019-08-27 01:43:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.99 Mbit/s
95th percentile per-packet one-way delay: 27.793 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 81.98 Mbit/s
95th percentile per-packet one-way delay: 27.050 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 38.038 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 15.875 ms
Loss rate: 0.40%
```
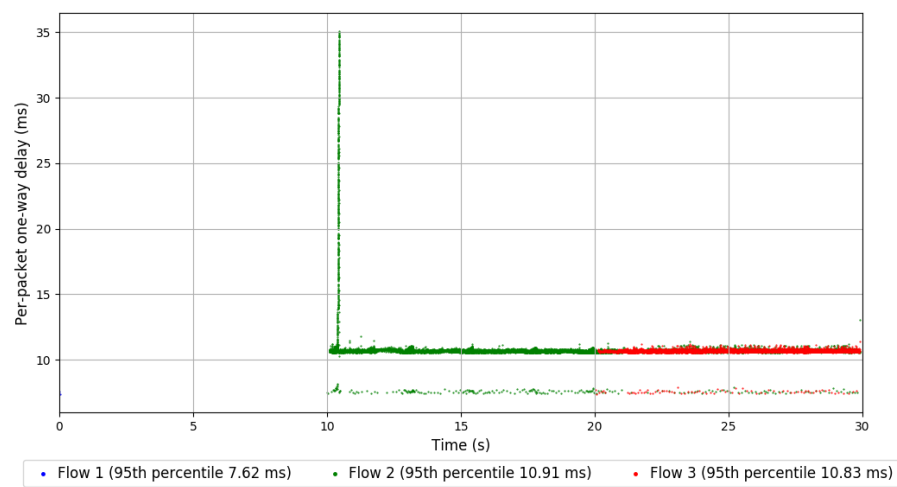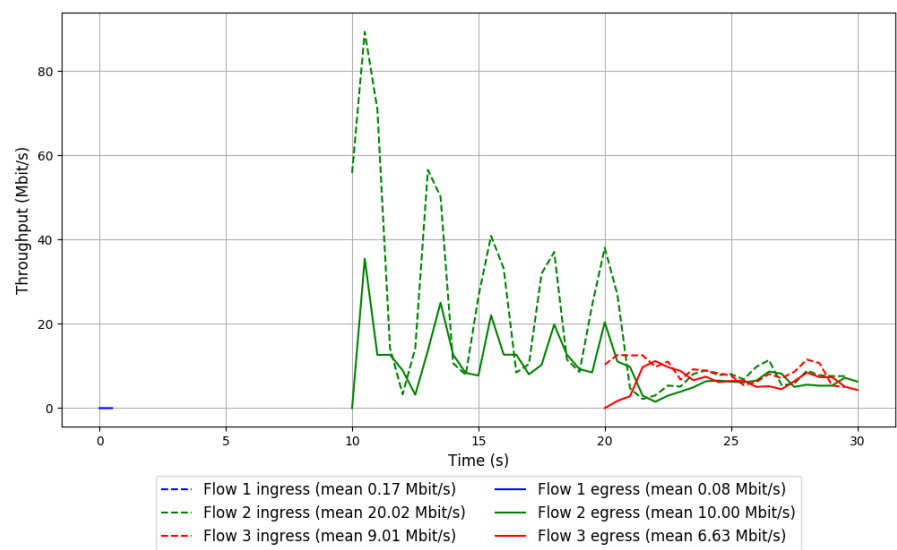
Run 3: Report of PCC-Allegro — Data Link

Legend:
- Flow 1 ingress (mean 82.47 Mbit/s) — Flow 1 egress (mean 81.98 Mbit/s)
- Flow 2 ingress (mean 9.48 Mbit/s) — Flow 2 egress (mean 9.44 Mbit/s)
- Flow 3 ingress (mean 8.35 Mbit/s) — Flow 3 egress (mean 8.31 Mbit/s)

Legend:
- Flow 1 (95th percentile 27.05 ms)
- Flow 2 (95th percentile 38.04 ms)
- Flow 3 (95th percentile 15.88 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 00:46:21
End at: 2019-08-27 00:46:51
Local clock offset: -3.104 ms
Remote clock offset: -1.468 ms


# Below is generated by plot.py at 2019-08-27 01:43:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.16 Mbit/s
95th percentile per-packet one-way delay: 10.968 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 81.42 Mbit/s
95th percentile per-packet one-way delay: 9.540 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 9.907 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 5.81 Mbit/s
95th percentile per-packet one-way delay: 13.218 ms
Loss rate: 0.04%
```

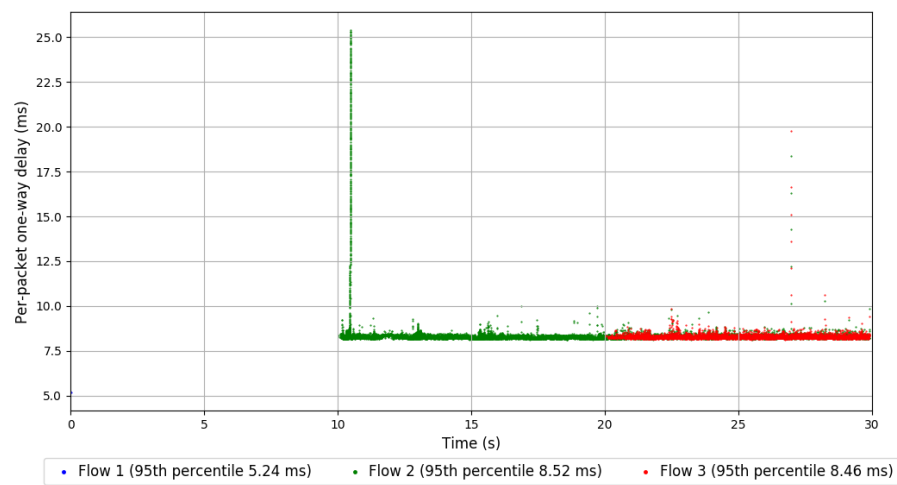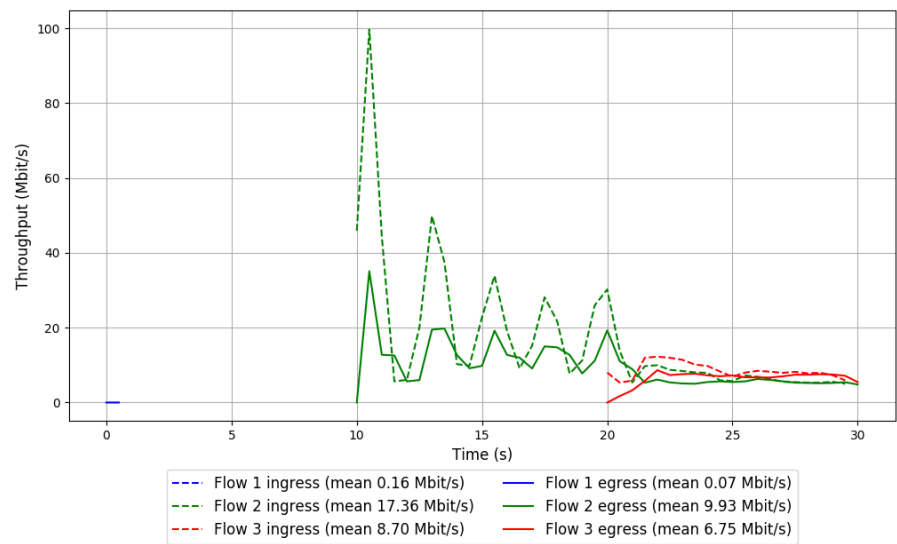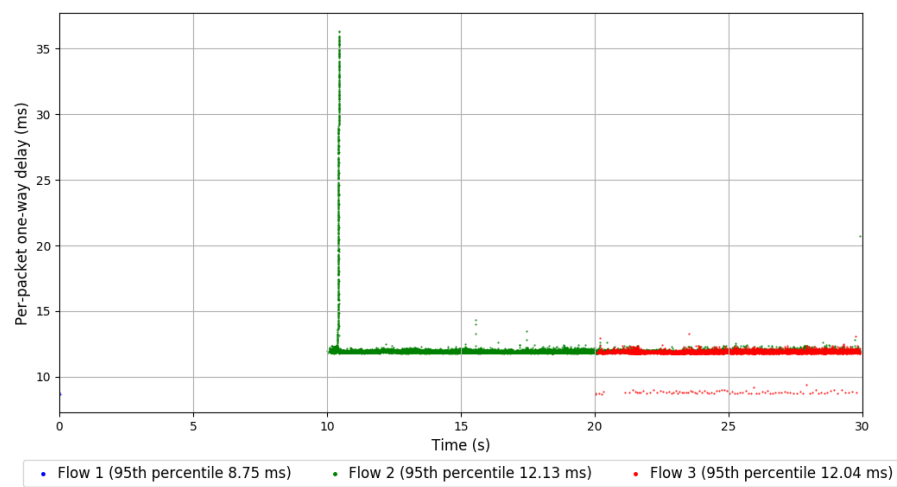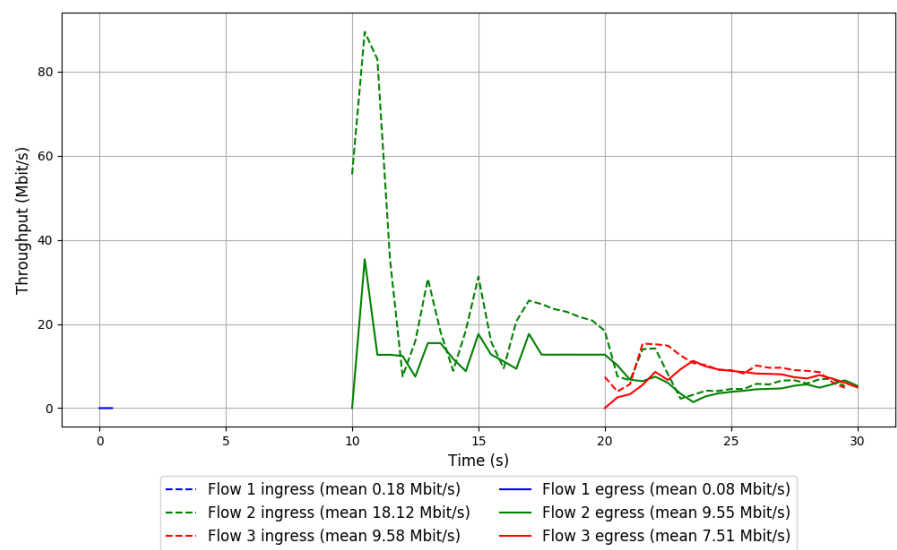Run 4: Report of PCC-Allegro — Data Link

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 01:14:51
End at: 2019-08-27 01:15:21
Local clock offset: -2.217 ms
Remote clock offset: -1.724 ms


# Below is generated by plot.py at 2019-08-27 01:43:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.78 Mbit/s
95th percentile per-packet one-way delay: 39.612 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 81.52 Mbit/s
95th percentile per-packet one-way delay: 39.642 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 10.36 Mbit/s
95th percentile per-packet one-way delay: 39.261 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 10.23 Mbit/s
95th percentile per-packet one-way delay: 39.000 ms
Loss rate: 0.02%
```

Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 82.05 Mbit/s) ——— Flow 1 egress (mean 81.52 Mbit/s)
Flow 2 ingress (mean 10.41 Mbit/s) ——— Flow 2 egress (mean 10.36 Mbit/s)
Flow 3 ingress (mean 10.24 Mbit/s) ——— Flow 3 egress (mean 10.23 Mbit/s)

Flow 1 (95th percentile 39.64 ms) · Flow 2 (95th percentile 39.26 ms) · Flow 3 (95th percentile 39.00 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2019-08-26 23:18:40
End at: 2019-08-26 23:19:10
Local clock offset: -2.959 ms
Remote clock offset: 0.11 ms


# Below is generated by plot.py at 2019-08-27 01:43:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 14.146 ms
Loss rate: 43.80%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 13.981 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.82 Mbit/s
95th percentile per-packet one-way delay: 14.141 ms
Loss rate: 46.00%
-- Flow 3:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 14.159 ms
Loss rate: 31.31%
```
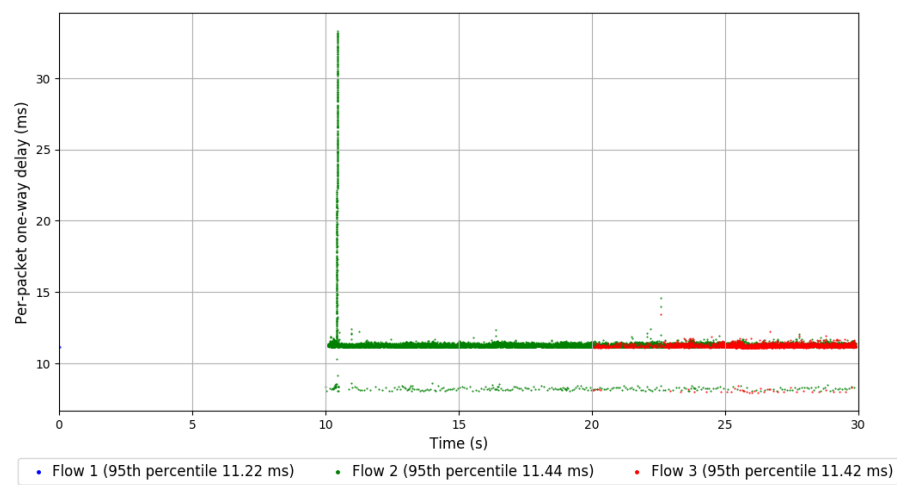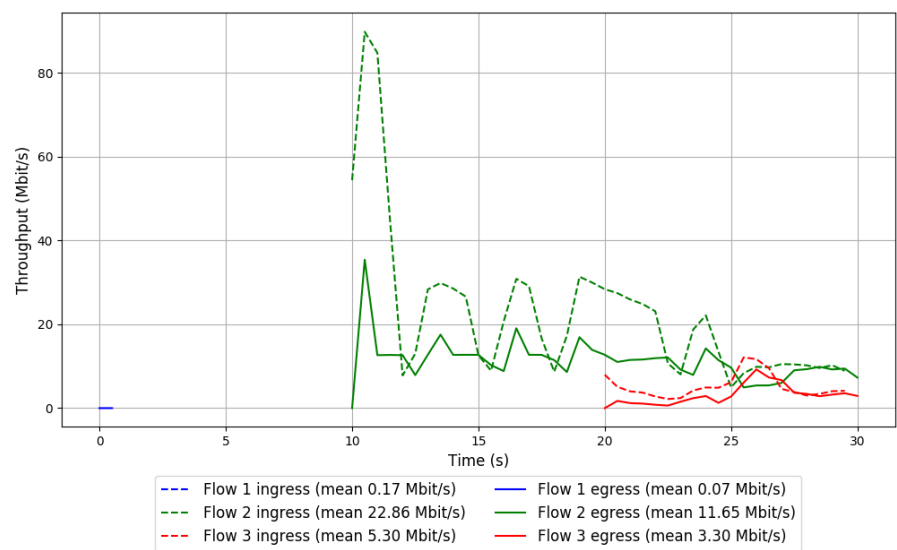
Run 1: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 0.17 Mbit/s) --- Flow 1 egress (mean 0.07 Mbit/s)
Flow 2 ingress (mean 20.04 Mbit/s) --- Flow 2 egress (mean 10.82 Mbit/s)
Flow 3 ingress (mean 7.13 Mbit/s) --- Flow 3 egress (mean 4.89 Mbit/s)

Flow 1 (95th percentile 13.98 ms)   Flow 2 (95th percentile 14.14 ms)   Flow 3 (95th percentile 14.16 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2019-08-26 23:46:42
End at: 2019-08-26 23:47:12
Local clock offset: -2.965 ms
Remote clock offset: -2.337 ms


# Below is generated by plot.py at 2019-08-27 01:43:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 10.876 ms
Loss rate: 45.72%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 7.624 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 10.911 ms
Loss rate: 50.05%
-- Flow 3:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 10.834 ms
Loss rate: 26.34%
```
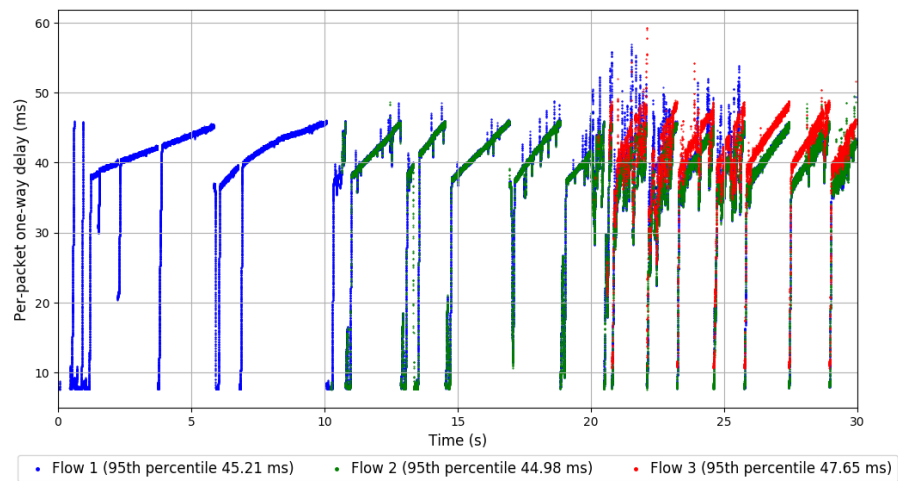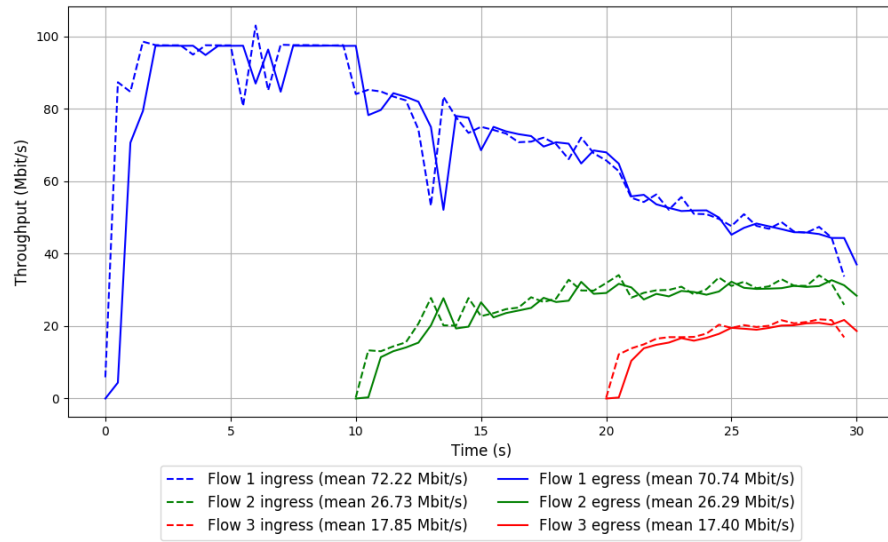
Run 2: Report of PCC-Expr — Data Link

158

```
Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 00:14:52
End at: 2019-08-27 00:15:22
Local clock offset: -0.652 ms
Remote clock offset: -2.102 ms


# Below is generated by plot.py at 2019-08-27 01:43:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 8.500 ms
Loss rate: 38.74%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 5.238 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 8.521 ms
Loss rate: 42.81%
-- Flow 3:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 8.465 ms
Loss rate: 22.39%
```
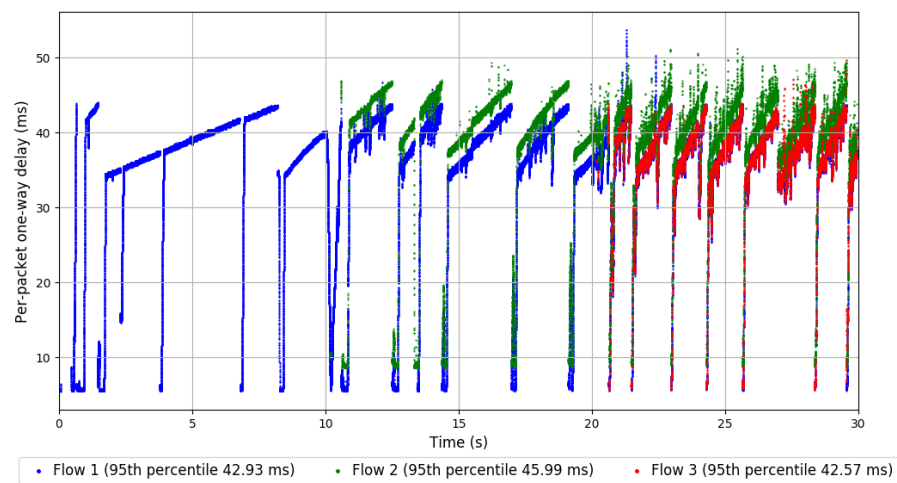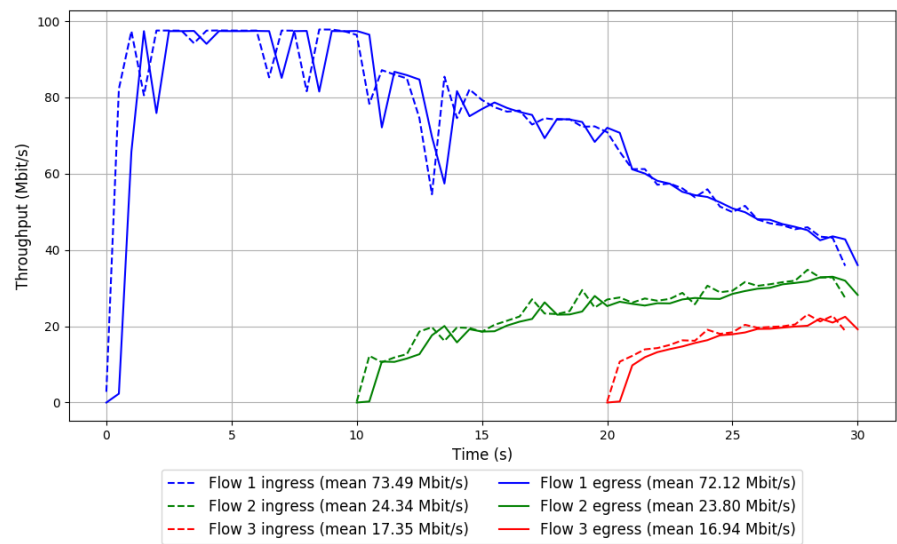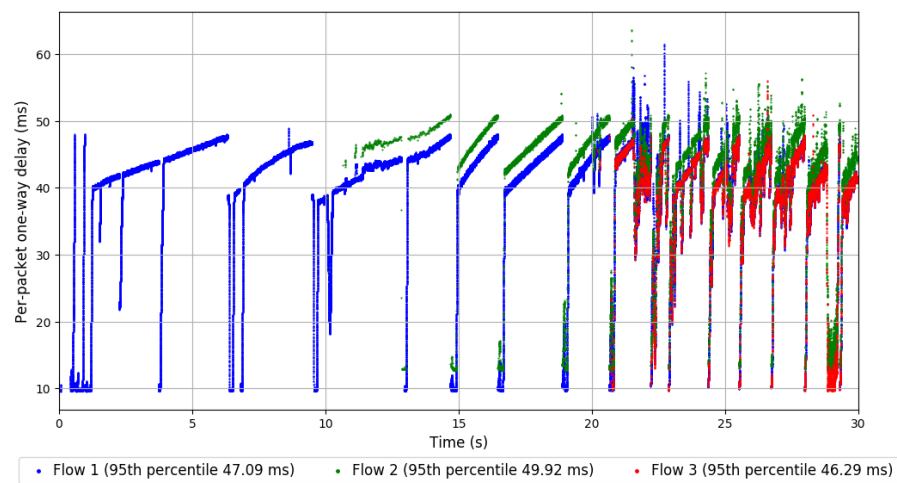
Run 3: Report of PCC-Expr — Data Link

```
Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 00:42:56
End at: 2019-08-27 00:43:26
Local clock offset: -3.466 ms
Remote clock offset: -0.688 ms


# Below is generated by plot.py at 2019-08-27 01:43:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 12.107 ms
Loss rate: 41.91%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 8.754 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 12.135 ms
Loss rate: 47.26%
-- Flow 3:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 12.044 ms
Loss rate: 21.53%
```

Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 0.18 Mbit/s) --- Flow 1 egress (mean 0.08 Mbit/s)
Flow 2 ingress (mean 18.12 Mbit/s) --- Flow 2 egress (mean 9.55 Mbit/s)
Flow 3 ingress (mean 9.58 Mbit/s) --- Flow 3 egress (mean 7.51 Mbit/s)

Flow 1 (95th percentile 8.75 ms) Flow 2 (95th percentile 12.13 ms) Flow 3 (95th percentile 12.04 ms)
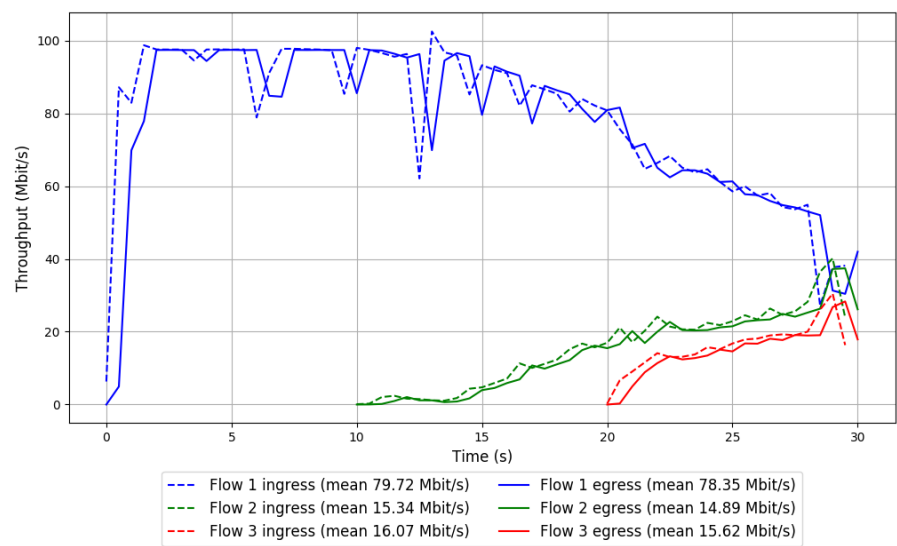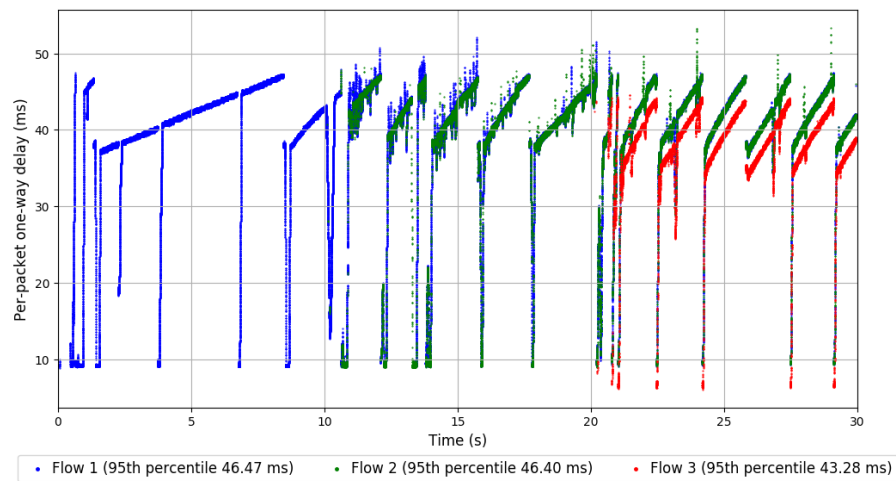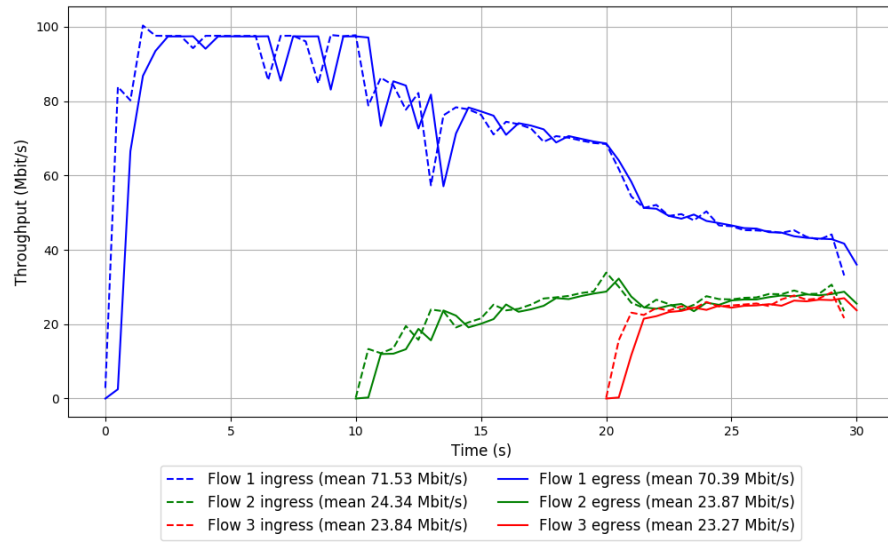
162

```
Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 01:11:23
End at: 2019-08-27 01:11:53
Local clock offset: -3.142 ms
Remote clock offset: -1.167 ms


# Below is generated by plot.py at 2019-08-27 01:43:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 11.437 ms
Loss rate: 47.87%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 11.223 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 11.439 ms
Loss rate: 49.04%
-- Flow 3:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 11.424 ms
Loss rate: 37.70%
```

Run 5: Report of PCC-Expr — Data Link

Legend:
- --- Flow 1 ingress (mean 0.17 Mbit/s)
- --- Flow 2 ingress (mean 22.86 Mbit/s)
- --- Flow 3 ingress (mean 5.30 Mbit/s)
- — Flow 1 egress (mean 0.07 Mbit/s)
- — Flow 2 egress (mean 11.65 Mbit/s)
- — Flow 3 egress (mean 3.30 Mbit/s)

Legend:
- • Flow 1 (95th percentile 11.22 ms)
- • Flow 2 (95th percentile 11.44 ms)
- • Flow 3 (95th percentile 11.42 ms)

164

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-08-26 23:24:25
End at: 2019-08-26 23:24:55
Local clock offset: -1.98 ms
Remote clock offset: -1.677 ms


# Below is generated by plot.py at 2019-08-27 01:44:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 45.286 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 70.74 Mbit/s
95th percentile per-packet one-way delay: 45.207 ms
Loss rate: 1.92%
-- Flow 2:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 44.981 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 17.40 Mbit/s
95th percentile per-packet one-way delay: 47.649 ms
Loss rate: 2.39%
```

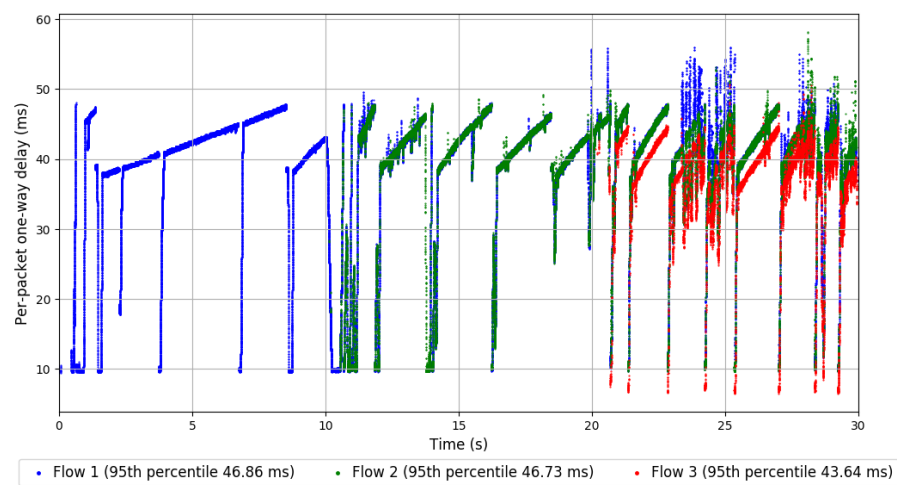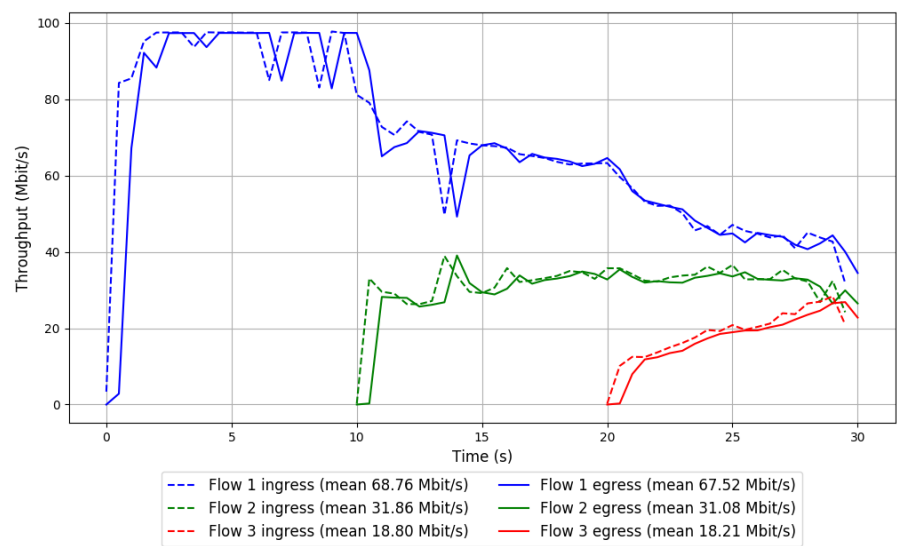# Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 72.22 Mbit/s)   Flow 1 egress (mean 70.74 Mbit/s)
Flow 2 ingress (mean 26.73 Mbit/s)   Flow 2 egress (mean 26.29 Mbit/s)
Flow 3 ingress (mean 17.85 Mbit/s)   Flow 3 egress (mean 17.40 Mbit/s)

Flow 1 (95th percentile 45.21 ms)   Flow 2 (95th percentile 44.98 ms)   Flow 3 (95th percentile 47.65 ms)

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-08-26 23:52:29
End at: 2019-08-26 23:52:59
Local clock offset: -1.979 ms
Remote clock offset: -3.166 ms


# Below is generated by plot.py at 2019-08-27 01:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.47 Mbit/s
95th percentile per-packet one-way delay: 43.485 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 42.931 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 23.80 Mbit/s
95th percentile per-packet one-way delay: 45.991 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 16.94 Mbit/s
95th percentile per-packet one-way delay: 42.569 ms
Loss rate: 2.36%
```
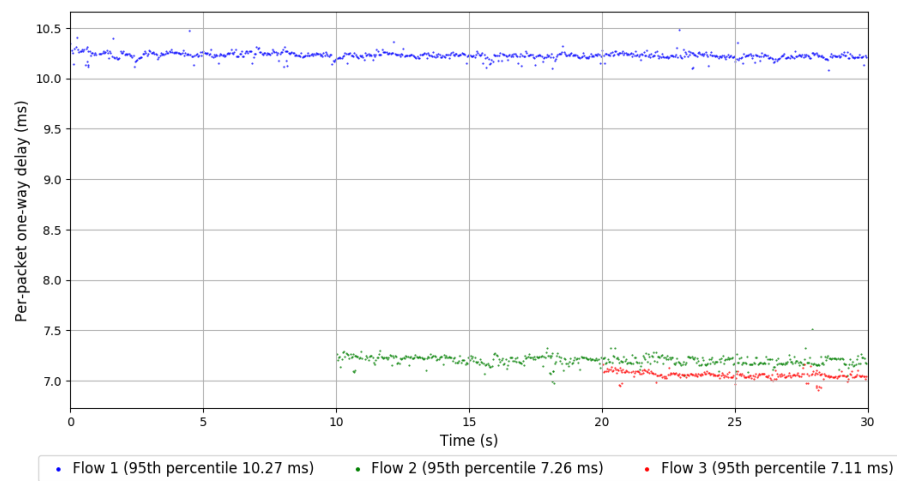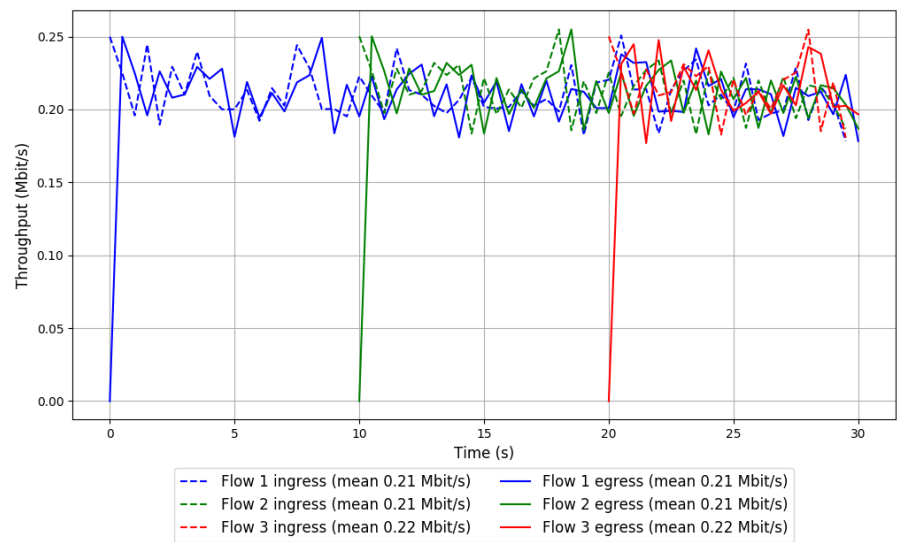
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 73.49 Mbit/s) --- Flow 1 egress (mean 72.12 Mbit/s)
Flow 2 ingress (mean 24.34 Mbit/s) --- Flow 2 egress (mean 23.80 Mbit/s)
Flow 3 ingress (mean 17.35 Mbit/s) --- Flow 3 egress (mean 16.94 Mbit/s)

Flow 1 (95th percentile 42.93 ms) • Flow 2 (95th percentile 45.99 ms) • Flow 3 (95th percentile 42.57 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 00:20:39
End at: 2019-08-27 00:21:09
Local clock offset: -3.344 ms
Remote clock offset: -0.339 ms


# Below is generated by plot.py at 2019-08-27 01:44:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 47.366 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 78.35 Mbit/s
95th percentile per-packet one-way delay: 47.093 ms
Loss rate: 1.59%
-- Flow 2:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 49.916 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 15.62 Mbit/s
95th percentile per-packet one-way delay: 46.292 ms
Loss rate: 2.87%
```

Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 79.72 Mbit/s) ---- Flow 1 egress (mean 78.35 Mbit/s)
Flow 2 ingress (mean 15.34 Mbit/s) ---- Flow 2 egress (mean 14.89 Mbit/s)
Flow 3 ingress (mean 16.07 Mbit/s) ---- Flow 3 egress (mean 15.62 Mbit/s)

Flow 1 (95th percentile 47.09 ms) • Flow 2 (95th percentile 49.92 ms) • Flow 3 (95th percentile 46.29 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 00:48:59
End at: 2019-08-27 00:49:29
Local clock offset: -1.942 ms
Remote clock offset: -1.921 ms


# Below is generated by plot.py at 2019-08-27 01:44:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 46.389 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 70.39 Mbit/s
95th percentile per-packet one-way delay: 46.472 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 46.400 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 43.283 ms
Loss rate: 2.44%
```

Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 01:17:13
End at: 2019-08-27 01:17:43
Local clock offset: -1.925 ms
Remote clock offset: -1.571 ms


# Below is generated by plot.py at 2019-08-27 01:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 46.807 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 67.52 Mbit/s
95th percentile per-packet one-way delay: 46.862 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 46.725 ms
Loss rate: 2.45%
-- Flow 3:
Average throughput: 18.21 Mbit/s
95th percentile per-packet one-way delay: 43.636 ms
Loss rate: 3.12%
```

Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2019-08-26 23:12:53
End at: 2019-08-26 23:13:23
Local clock offset: -2.664 ms
Remote clock offset: -3.645 ms


# Below is generated by plot.py at 2019-08-27 01:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 10.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 10.273 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 7.262 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 7.109 ms
Loss rate: 0.00%
```
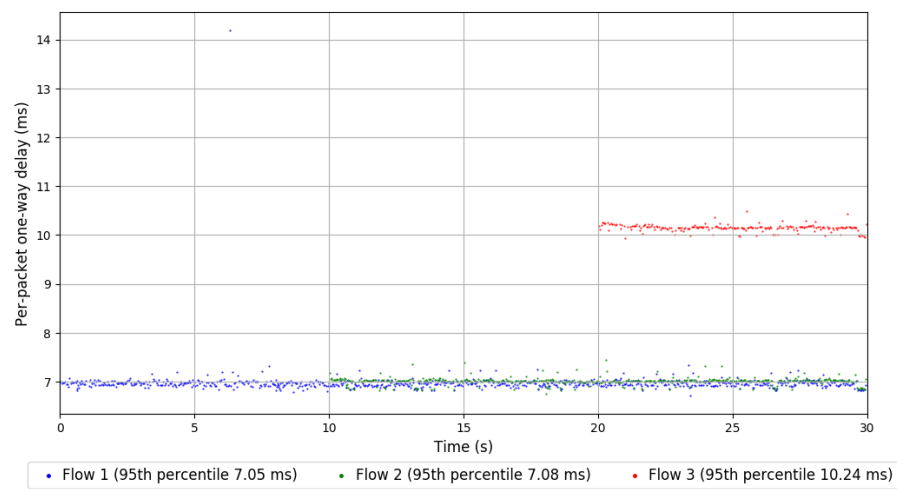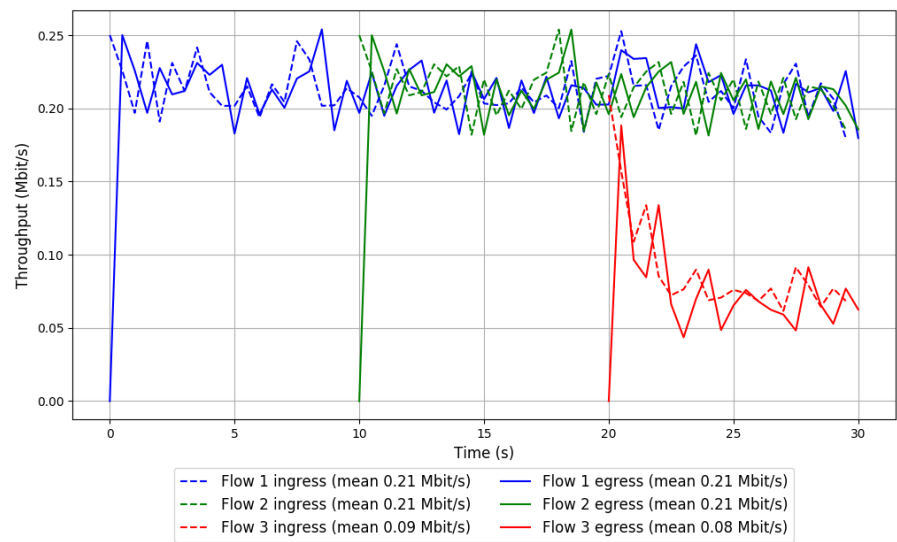
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2019-08-26 23:40:55
End at: 2019-08-26 23:41:25
Local clock offset: -2.123 ms
Remote clock offset: -1.931 ms


# Below is generated by plot.py at 2019-08-27 01:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 10.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 7.306 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 10.430 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 7.323 ms
Loss rate: 0.00%
```
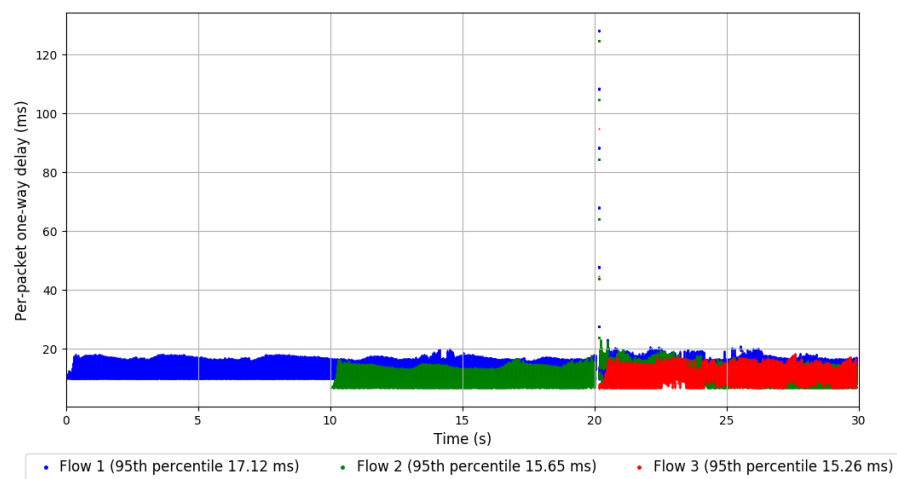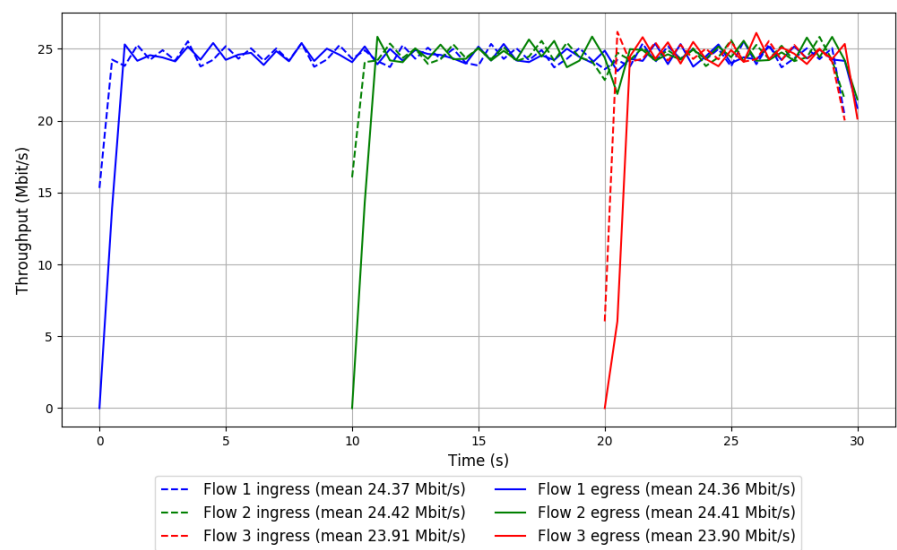
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2019-08-27 00:09:06
End at: 2019-08-27 00:09:36
Local clock offset: -3.509 ms
Remote clock offset: -3.186 ms

# Below is generated by plot.py at 2019-08-27 01:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 7.015 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 6.974 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 7.035 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 7.001 ms
Loss rate: 0.00%
```
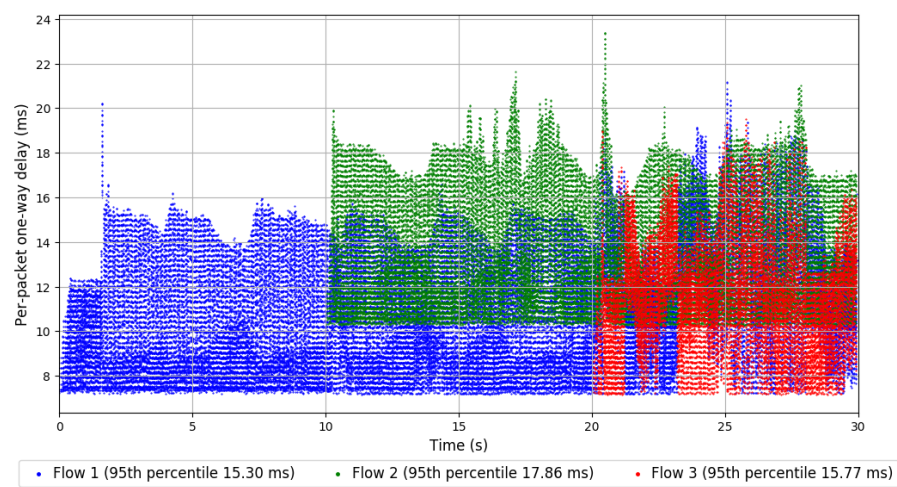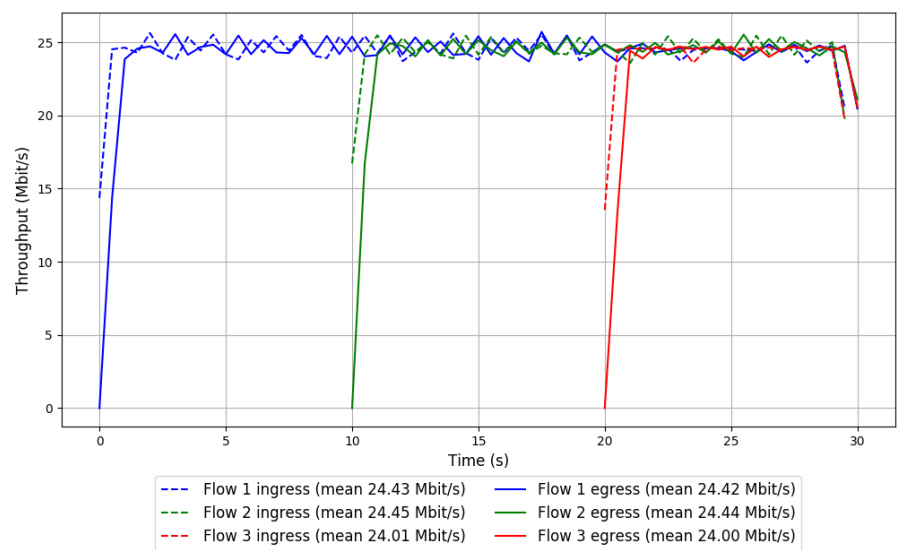
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2019-08-27 00:37:08
End at: 2019-08-27 00:37:38
Local clock offset: -0.279 ms
Remote clock offset: -1.803 ms


# Below is generated by plot.py at 2019-08-27 01:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 7.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 7.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 7.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 4.628 ms
Loss rate: 0.00%
```
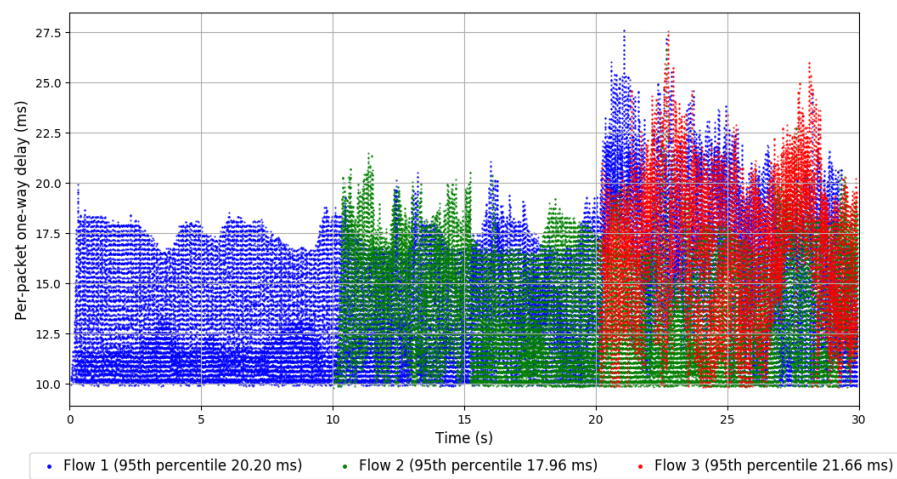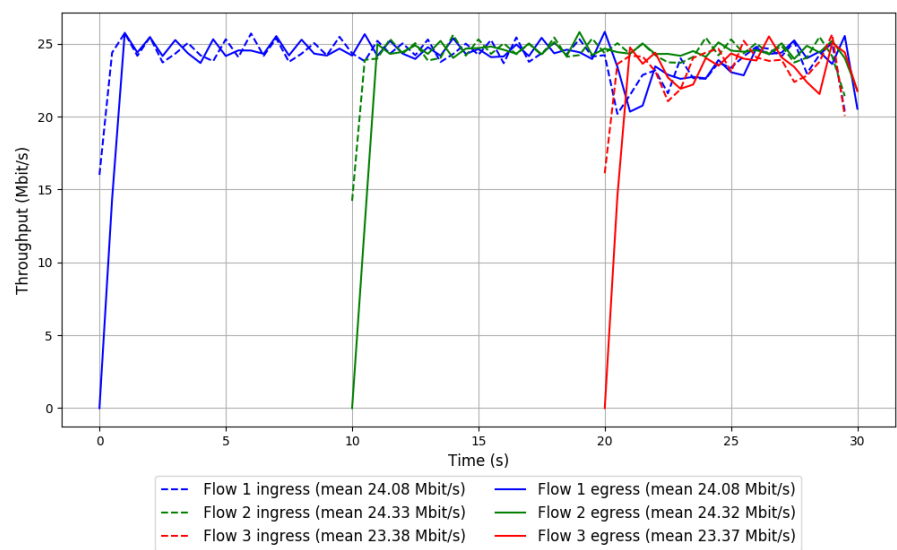
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-08-27 01:05:37
End at: 2019-08-27 01:06:07
Local clock offset: -0.957 ms
Remote clock offset: -0.117 ms


# Below is generated by plot.py at 2019-08-27 01:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 10.168 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 7.047 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 7.083 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 10.242 ms
Loss rate: 14.34%
```

Run 5: Report of SCReAM — Data Link

184

```
Run 1: Statistics of Sprout

Start at: 2019-08-26 23:25:36
End at: 2019-08-26 23:26:06
Local clock offset: -2.272 ms
Remote clock offset: -2.991 ms


# Below is generated by plot.py at 2019-08-27 01:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.48 Mbit/s
95th percentile per-packet one-way delay: 16.640 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 17.124 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 15.655 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 15.257 ms
Loss rate: 0.00%
```
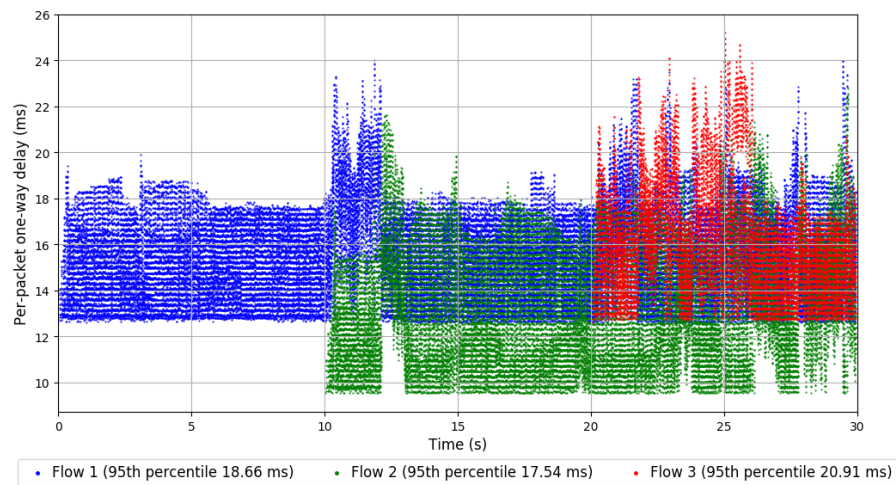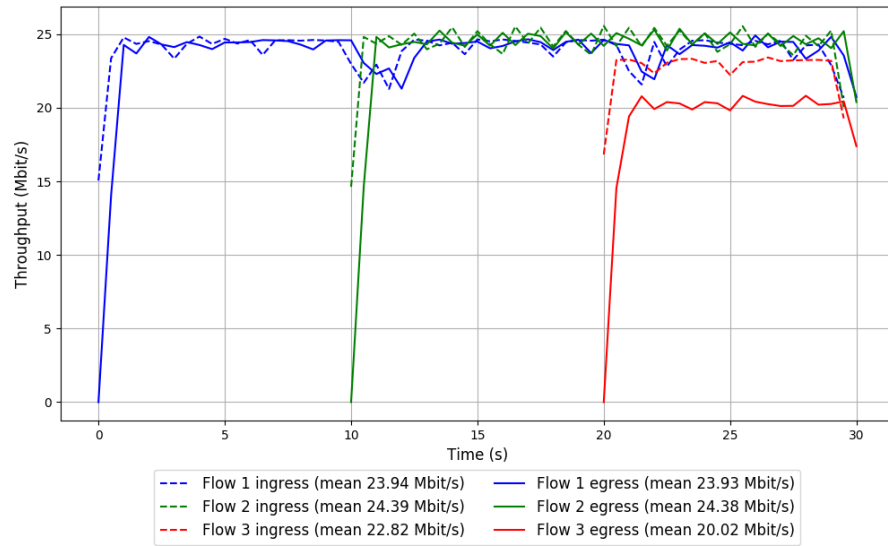
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2019-08-26 23:53:40
End at: 2019-08-26 23:54:10
Local clock offset: -2.964 ms
Remote clock offset: -2.548 ms


# Below is generated by plot.py at 2019-08-27 01:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.61 Mbit/s
95th percentile per-packet one-way delay: 16.889 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 15.296 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 17.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.00 Mbit/s
95th percentile per-packet one-way delay: 15.771 ms
Loss rate: 0.00%
```

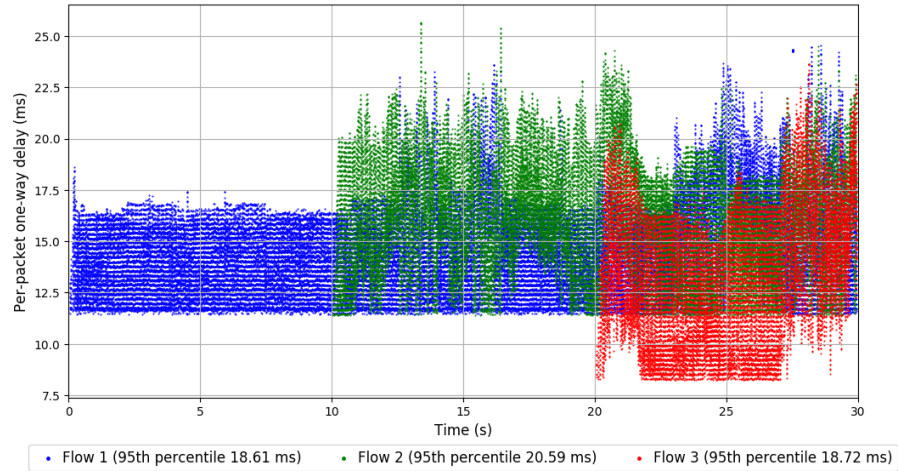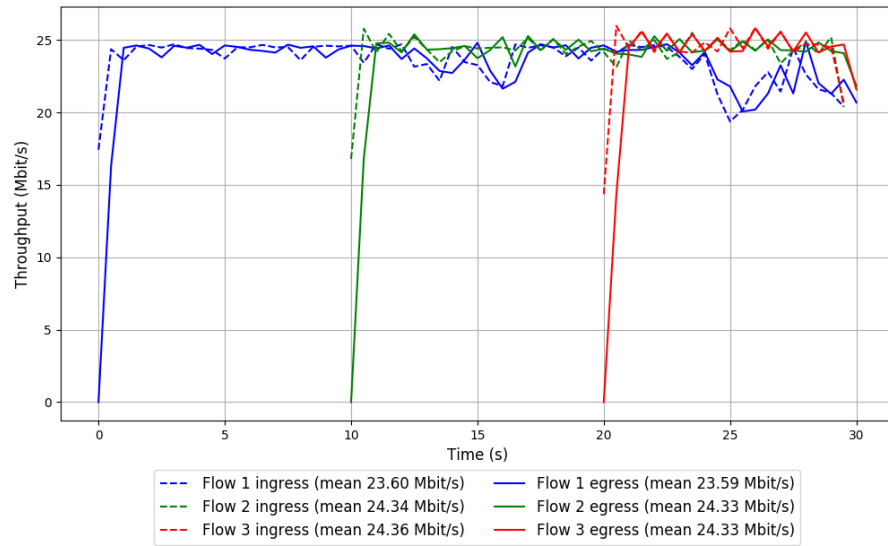Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2019-08-27 00:21:50
End at: 2019-08-27 00:22:20
Local clock offset: -2.779 ms
Remote clock offset: -2.683 ms


# Below is generated by plot.py at 2019-08-27 01:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.97 Mbit/s
95th percentile per-packet one-way delay: 20.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.08 Mbit/s
95th percentile per-packet one-way delay: 20.195 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.32 Mbit/s
95th percentile per-packet one-way delay: 17.959 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.37 Mbit/s
95th percentile per-packet one-way delay: 21.655 ms
Loss rate: 0.00%
```
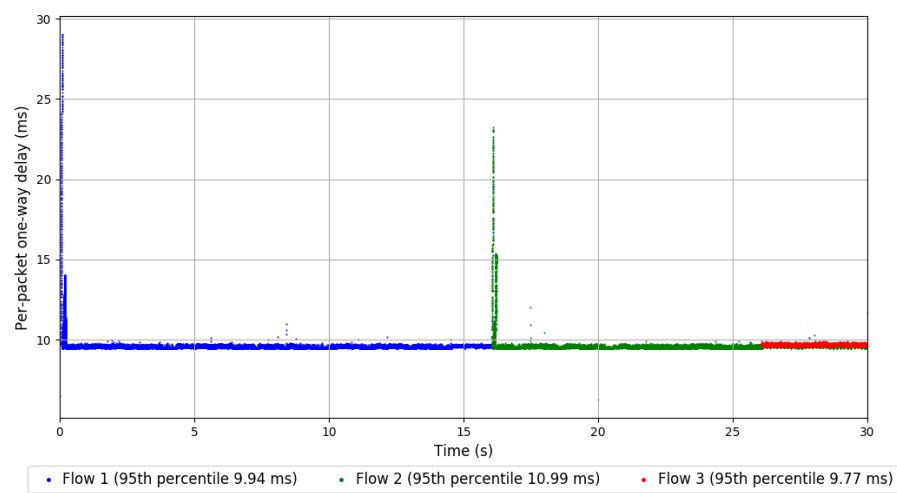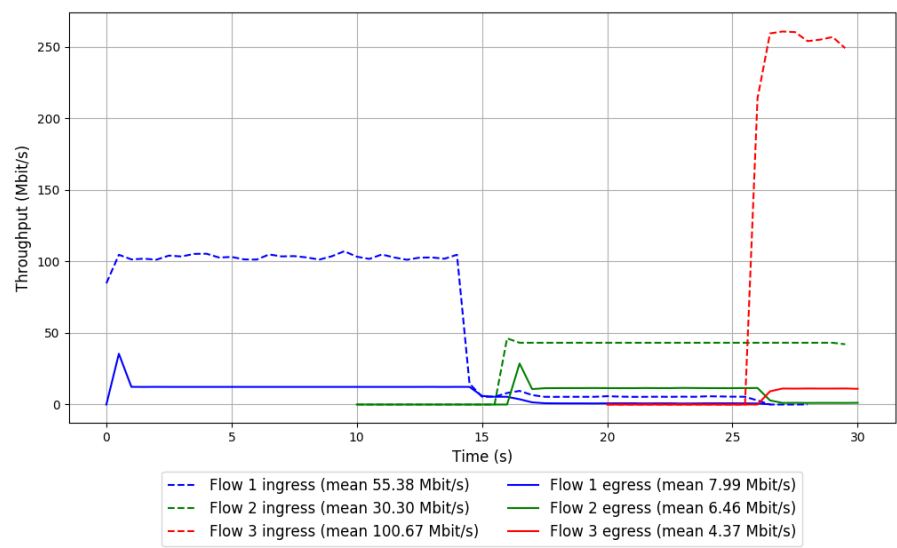
Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 24.08 Mbit/s)   Flow 1 egress (mean 24.08 Mbit/s)
Flow 2 ingress (mean 24.33 Mbit/s)   Flow 2 egress (mean 24.32 Mbit/s)
Flow 3 ingress (mean 23.38 Mbit/s)   Flow 3 egress (mean 23.37 Mbit/s)

Flow 1 (95th percentile 20.20 ms)   Flow 2 (95th percentile 17.96 ms)   Flow 3 (95th percentile 21.66 ms)

```
Run 4: Statistics of Sprout

Start at: 2019-08-27 00:50:12
End at: 2019-08-27 00:50:42
Local clock offset: -3.365 ms
Remote clock offset: 0.203 ms


# Below is generated by plot.py at 2019-08-27 01:44:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.77 Mbit/s
95th percentile per-packet one-way delay: 18.775 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 23.93 Mbit/s
95th percentile per-packet one-way delay: 18.665 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 17.535 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.02 Mbit/s
95th percentile per-packet one-way delay: 20.907 ms
Loss rate: 12.24%
```
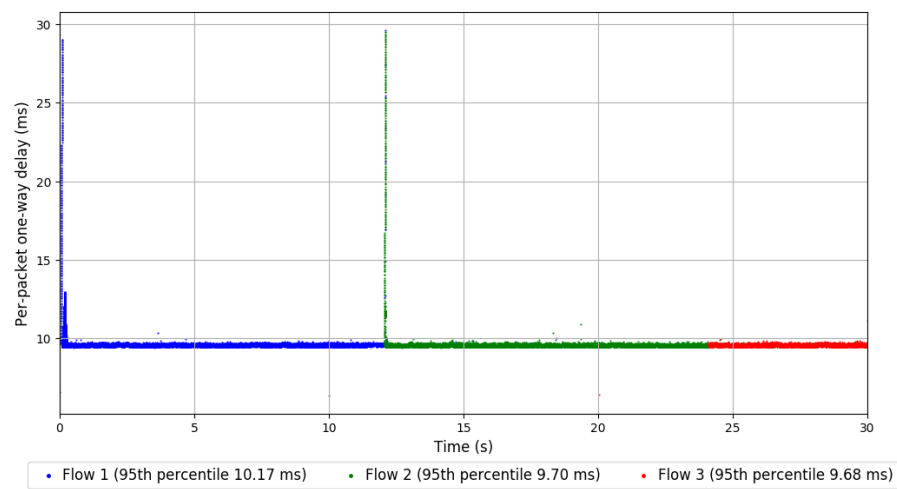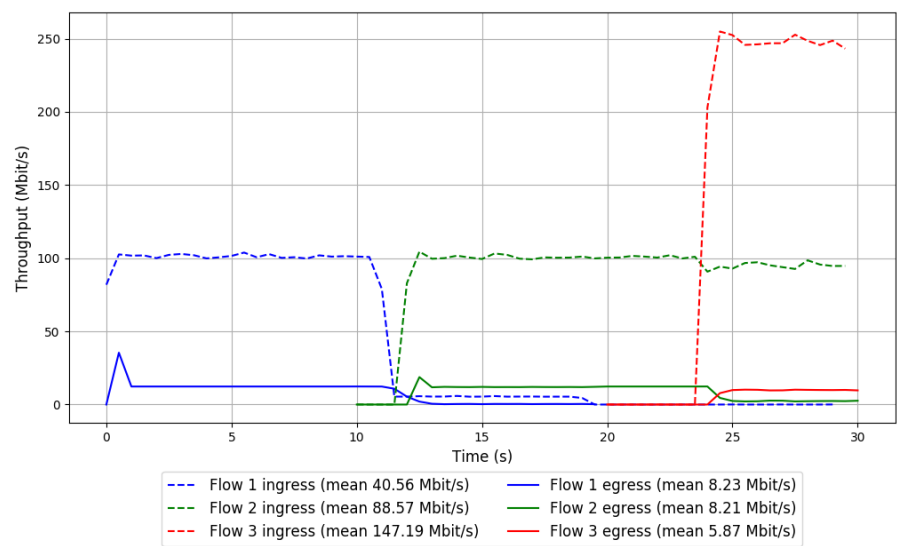
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-08-27 01:18:25
End at: 2019-08-27 01:18:55
Local clock offset: -2.791 ms
Remote clock offset: -0.675 ms


# Below is generated by plot.py at 2019-08-27 01:44:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.83 Mbit/s
95th percentile per-packet one-way delay: 19.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 18.615 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 20.592 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 18.722 ms
Loss rate: 0.00%
```
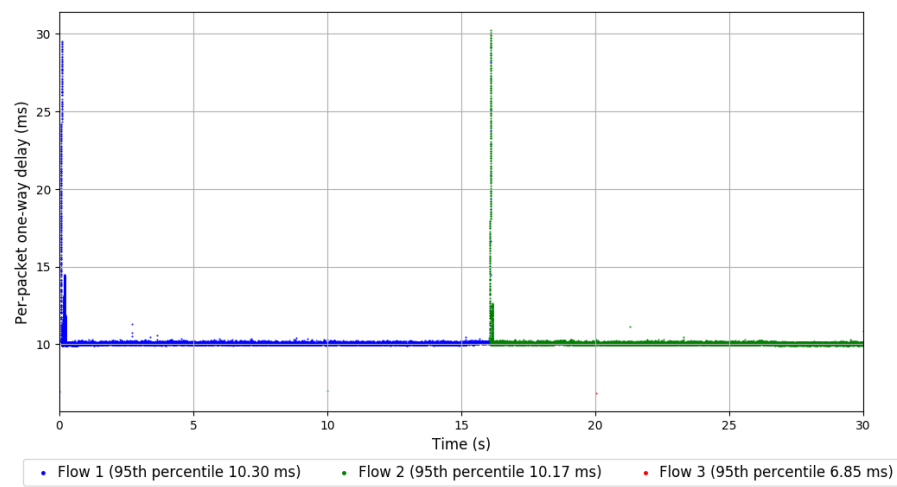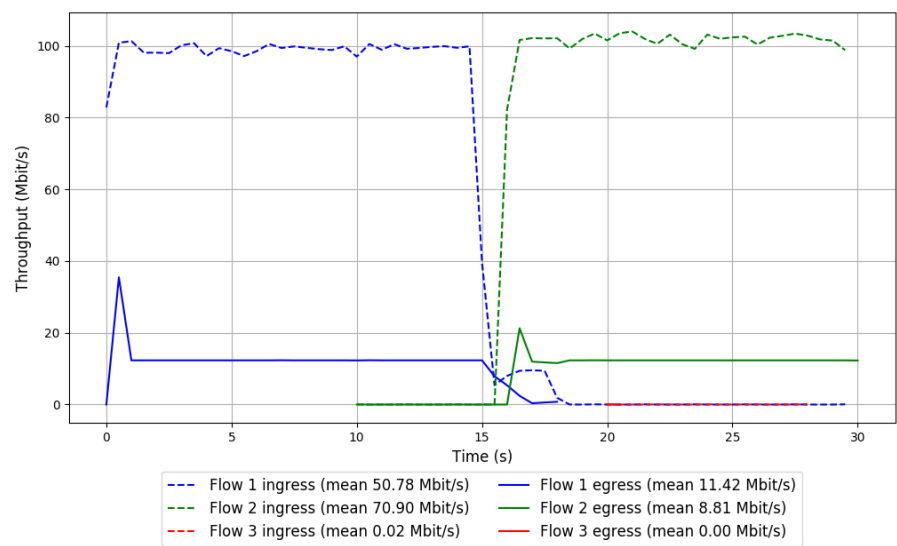
Run 5: Report of Sprout — Data Link

194

```
Run 1: Statistics of TaoVA-100x

Start at: 2019-08-26 23:20:57
End at: 2019-08-26 23:21:27
Local clock offset: -0.742 ms
Remote clock offset: -1.863 ms


# Below is generated by plot.py at 2019-08-27 01:44:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 9.901 ms
Loss rate: 87.97%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 9.935 ms
Loss rate: 86.61%
-- Flow 2:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 10.992 ms
Loss rate: 78.75%
-- Flow 3:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 9.766 ms
Loss rate: 95.65%
```
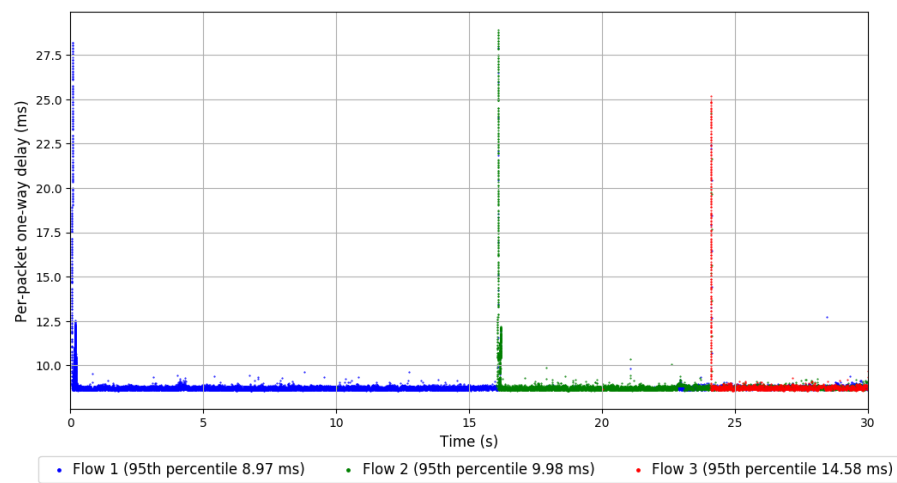
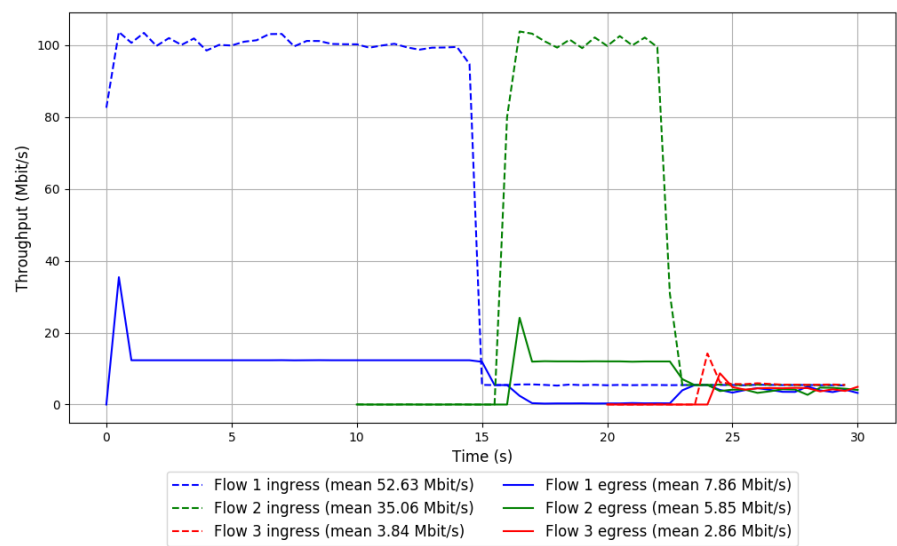Run 1: Report of TaoVA-100x — Data Link

```
Run 2: Statistics of TaoVA-100x

Start at: 2019-08-26 23:49:00
End at: 2019-08-26 23:49:30
Local clock offset: -1.825 ms
Remote clock offset: -2.277 ms


# Below is generated by plot.py at 2019-08-27 01:44:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 9.714 ms
Loss rate: 91.39%
-- Flow 1:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 10.172 ms
Loss rate: 86.65%
-- Flow 2:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 9.696 ms
Loss rate: 90.73%
-- Flow 3:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 9.680 ms
Loss rate: 96.01%
```

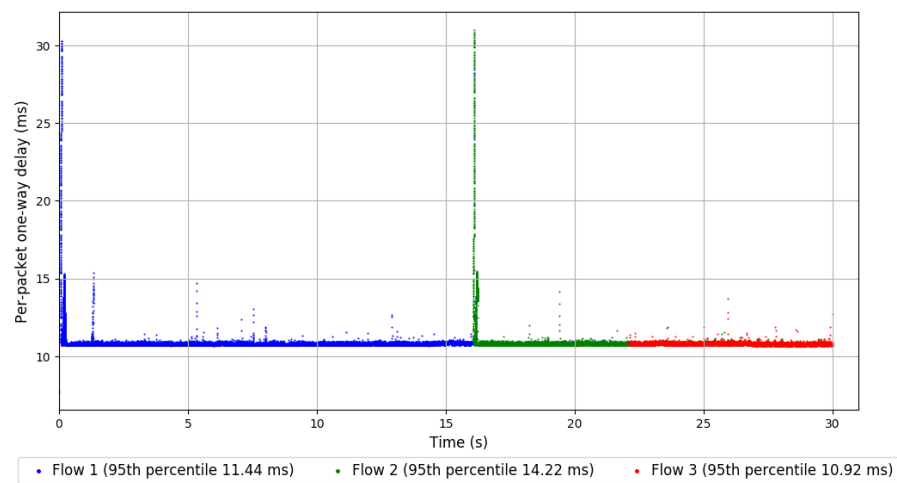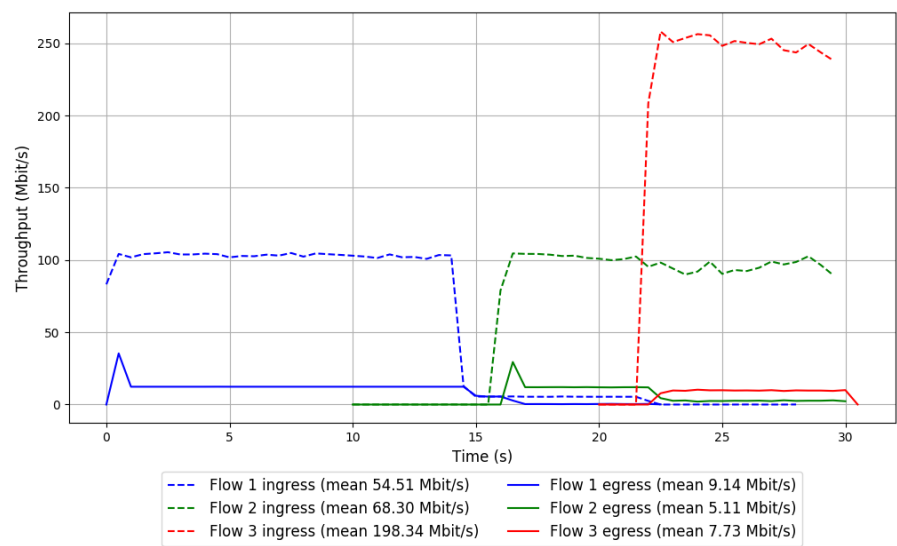Run 2: Report of TaoVA-100x — Data Link

```
Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 00:17:10
End at: 2019-08-27 00:17:40
Local clock offset: -2.378 ms
Remote clock offset: -2.147 ms


# Below is generated by plot.py at 2019-08-27 01:44:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 10.202 ms
Loss rate: 87.03%
-- Flow 1:
Average throughput: 11.42 Mbit/s
95th percentile per-packet one-way delay: 10.299 ms
Loss rate: 86.53%
-- Flow 2:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 10.169 ms
Loss rate: 87.57%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 6.850 ms
Loss rate: 99.16%
```
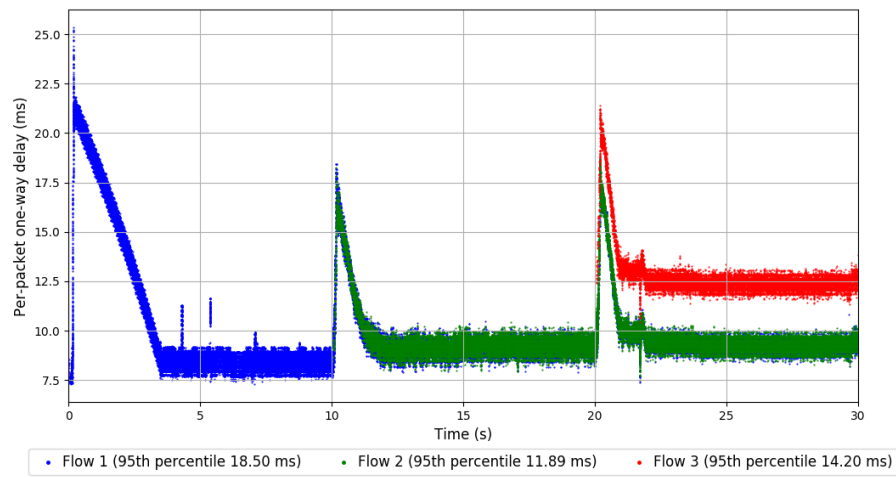
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 50.78 Mbit/s) --- Flow 1 egress (mean 11.42 Mbit/s)
Flow 2 ingress (mean 70.90 Mbit/s) --- Flow 2 egress (mean 8.81 Mbit/s)
Flow 3 ingress (mean 0.02 Mbit/s) --- Flow 3 egress (mean 0.00 Mbit/s)

• Flow 1 (95th percentile 10.30 ms)   • Flow 2 (95th percentile 10.17 ms)   • Flow 3 (95th percentile 6.85 ms)

```
Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 00:45:13
End at: 2019-08-27 00:45:44
Local clock offset: -0.359 ms
Remote clock offset: -0.808 ms


# Below is generated by plot.py at 2019-08-27 01:44:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 9.128 ms
Loss rate: 83.55%
-- Flow 1:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 8.966 ms
Loss rate: 85.07%
-- Flow 2:
Average throughput: 5.85 Mbit/s
95th percentile per-packet one-way delay: 9.982 ms
Loss rate: 83.31%
-- Flow 3:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 14.582 ms
Loss rate: 25.49%
```
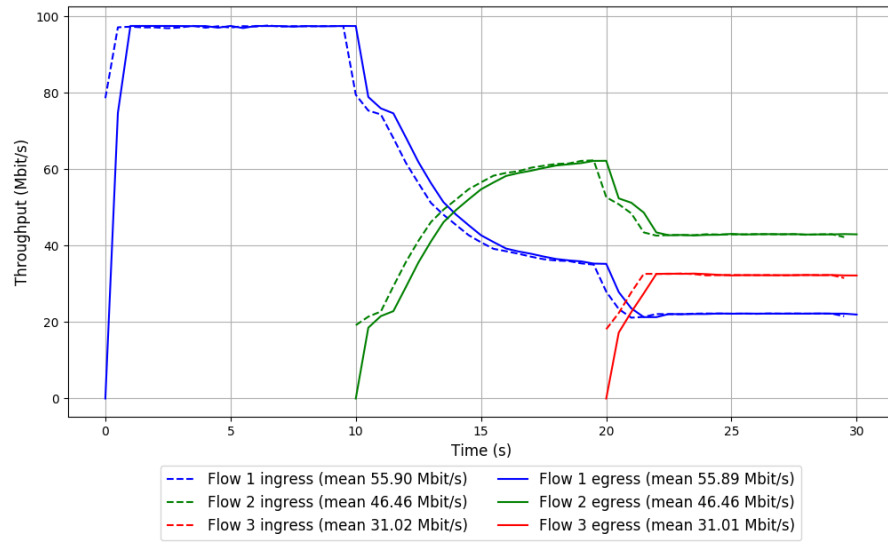
Run 4: Report of TaoVA-100x — Data Link

```
Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 01:13:42
End at: 2019-08-27 01:14:12
Local clock offset: -1.658 ms
Remote clock offset: -0.143 ms


# Below is generated by plot.py at 2019-08-27 01:45:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 11.440 ms
Loss rate: 92.18%
-- Flow 1:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 11.436 ms
Loss rate: 86.82%
-- Flow 2:
Average throughput: 5.11 Mbit/s
95th percentile per-packet one-way delay: 14.225 ms
Loss rate: 92.52%
-- Flow 3:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 10.917 ms
Loss rate: 96.11%
```
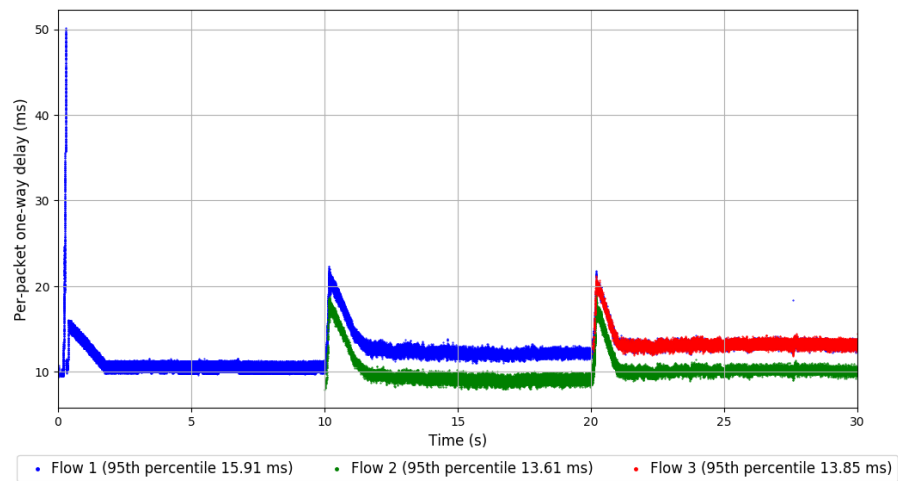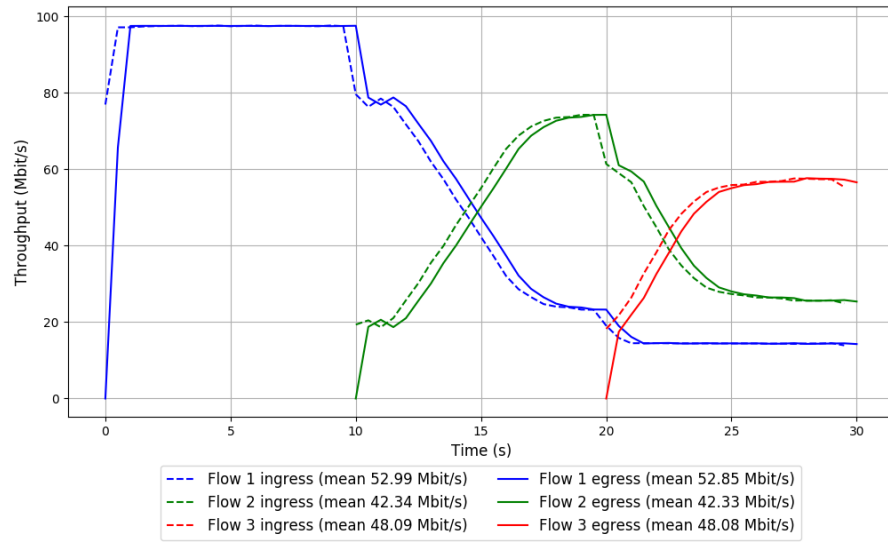
Run 5: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2019-08-26 23:23:15
End at: 2019-08-26 23:23:45
Local clock offset: -2.427 ms
Remote clock offset: -2.461 ms


# Below is generated by plot.py at 2019-08-27 01:45:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 16.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.89 Mbit/s
95th percentile per-packet one-way delay: 18.497 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.46 Mbit/s
95th percentile per-packet one-way delay: 11.887 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.01 Mbit/s
95th percentile per-packet one-way delay: 14.195 ms
Loss rate: 0.03%
```
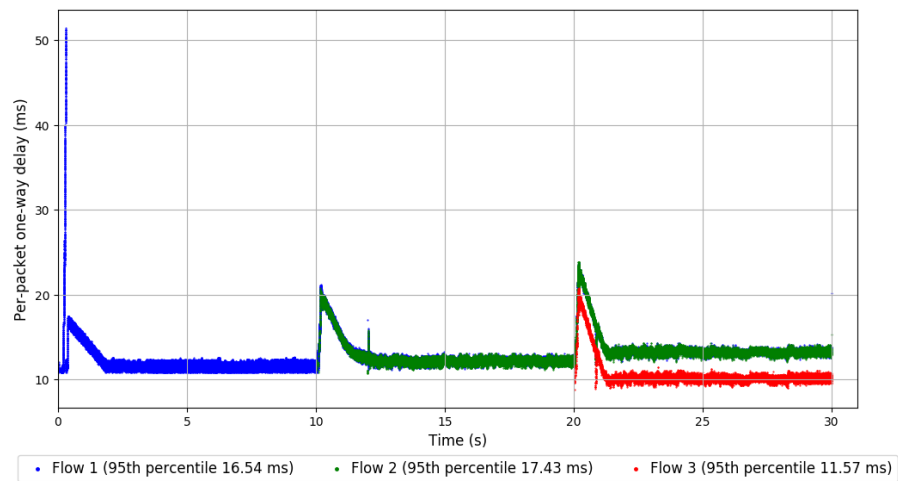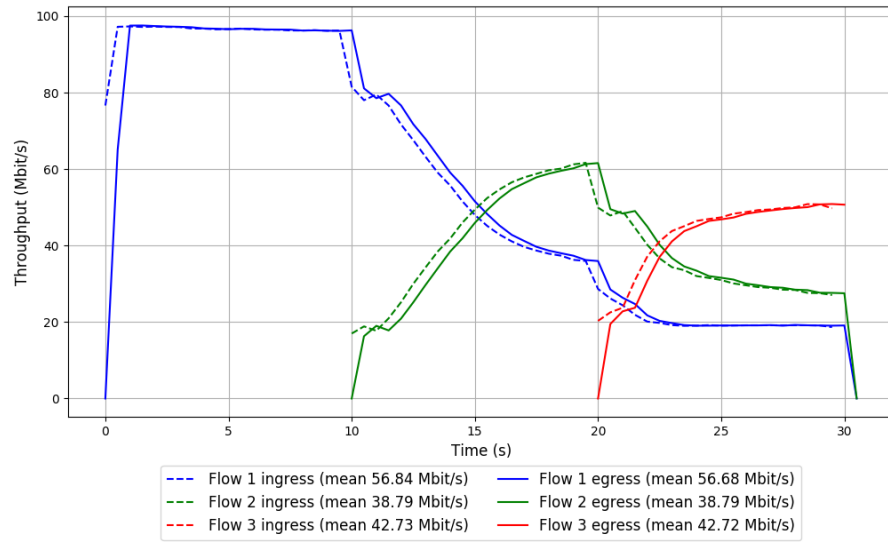
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2019-08-26 23:51:18
End at: 2019-08-26 23:51:48
Local clock offset: -2.842 ms
Remote clock offset: -3.259 ms


# Below is generated by plot.py at 2019-08-27 01:45:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 15.103 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 52.85 Mbit/s
95th percentile per-packet one-way delay: 15.912 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 42.33 Mbit/s
95th percentile per-packet one-way delay: 13.606 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 48.08 Mbit/s
95th percentile per-packet one-way delay: 13.846 ms
Loss rate: 0.03%
```
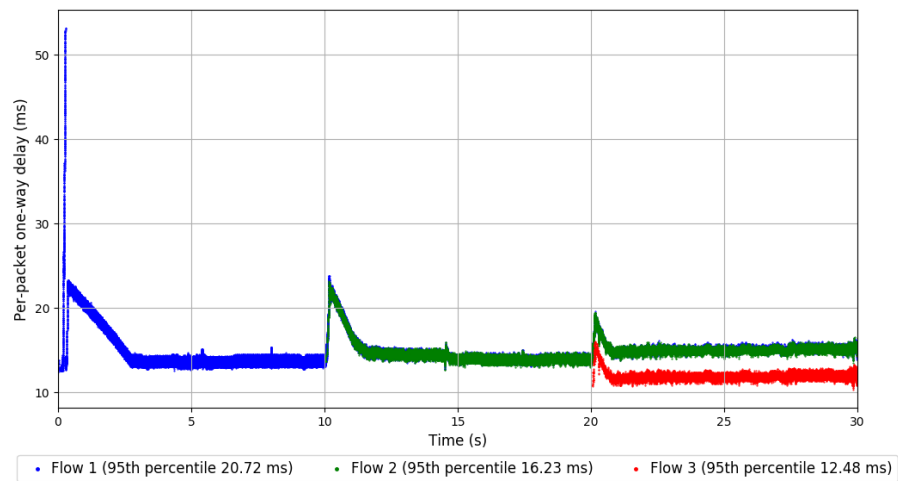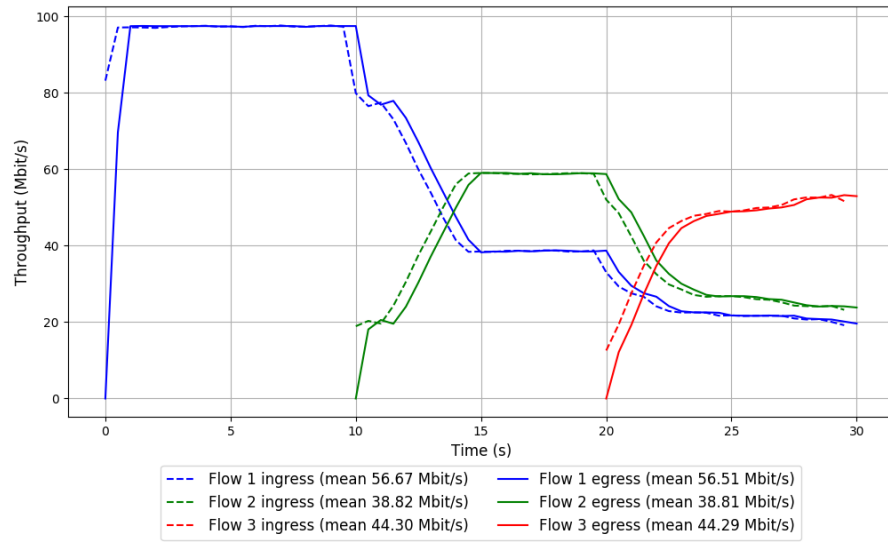
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 00:19:28
End at: 2019-08-27 00:19:58
Local clock offset: -3.397 ms
Remote clock offset: -2.264 ms


# Below is generated by plot.py at 2019-08-27 01:45:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.73 Mbit/s
95th percentile per-packet one-way delay: 16.491 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 56.68 Mbit/s
95th percentile per-packet one-way delay: 16.538 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 17.430 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 42.72 Mbit/s
95th percentile per-packet one-way delay: 11.570 ms
Loss rate: 0.00%
```
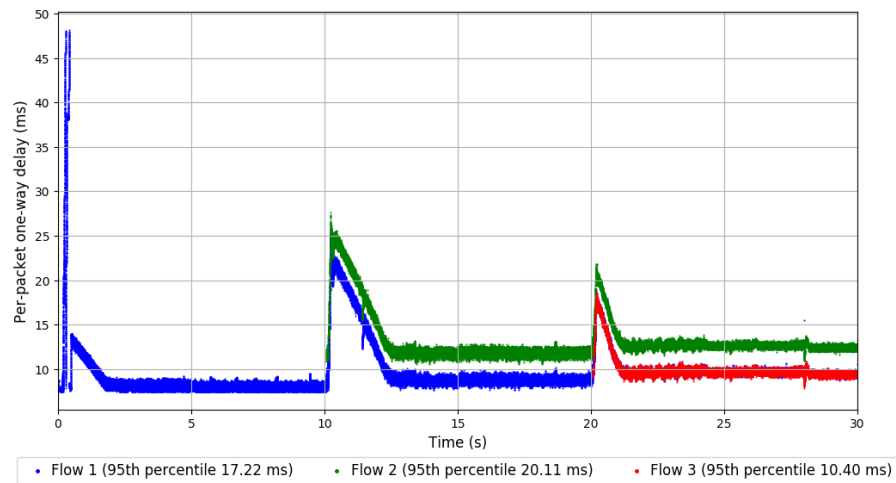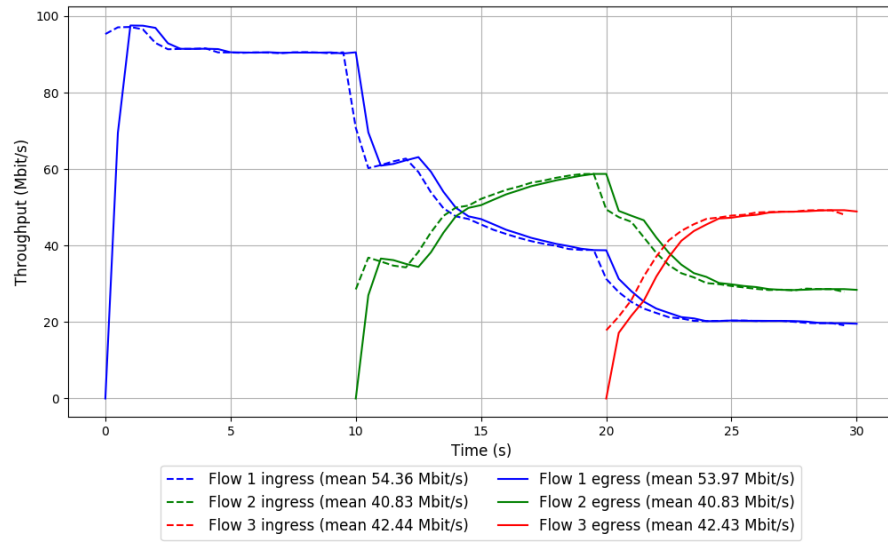
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 56.84 Mbit/s)   Flow 1 egress (mean 56.68 Mbit/s)
Flow 2 ingress (mean 38.79 Mbit/s)   Flow 2 egress (mean 38.79 Mbit/s)
Flow 3 ingress (mean 42.73 Mbit/s)   Flow 3 egress (mean 42.72 Mbit/s)

Flow 1 (95th percentile 16.54 ms)   Flow 2 (95th percentile 17.43 ms)   Flow 3 (95th percentile 11.57 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 00:47:31
End at: 2019-08-27 00:48:01
Local clock offset: -3.574 ms
Remote clock offset: -0.181 ms


# Below is generated by plot.py at 2019-08-27 01:45:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 19.454 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 20.717 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 16.225 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 44.29 Mbit/s
95th percentile per-packet one-way delay: 12.479 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 01:16:01
End at: 2019-08-27 01:16:31
Local clock offset: -2.954 ms
Remote clock offset: -1.678 ms


# Below is generated by plot.py at 2019-08-27 01:45:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 17.667 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 53.97 Mbit/s
95th percentile per-packet one-way delay: 17.223 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 20.108 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 42.43 Mbit/s
95th percentile per-packet one-way delay: 10.397 ms
Loss rate: 0.01%
```
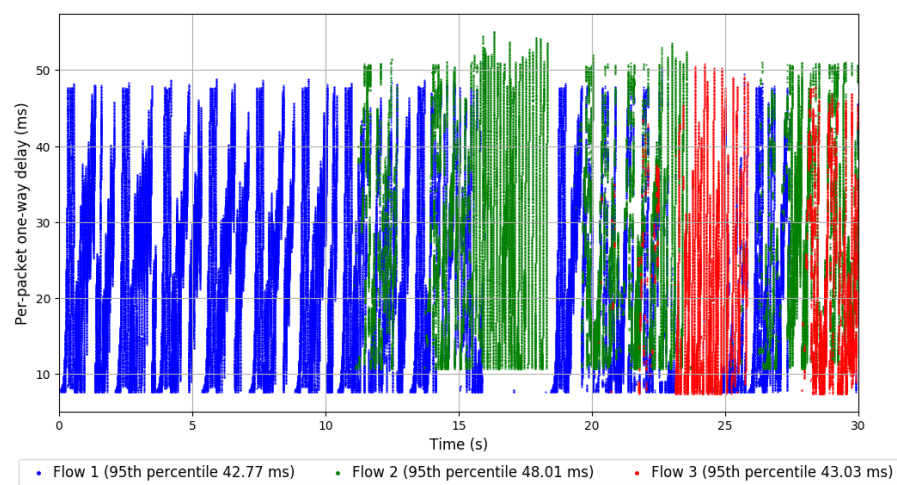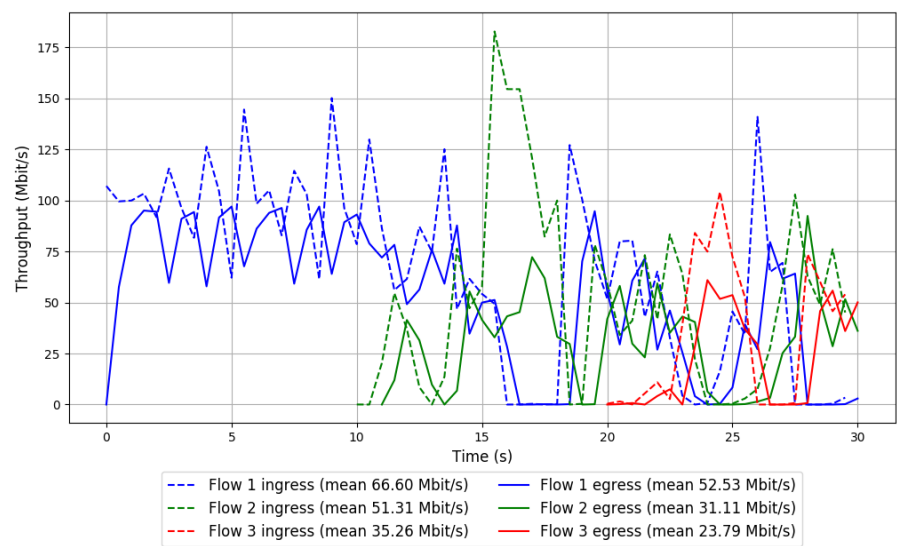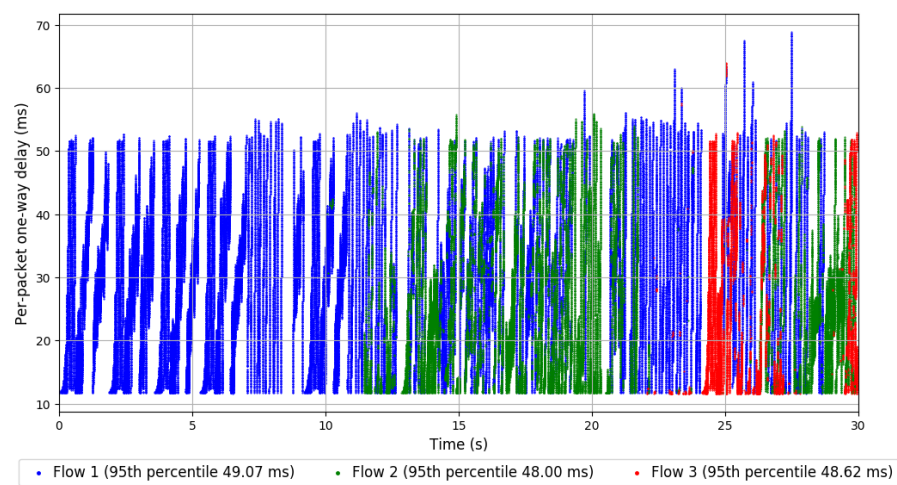
Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 54.36 Mbit/s) --- Flow 1 egress (mean 53.97 Mbit/s)
Flow 2 ingress (mean 40.83 Mbit/s) --- Flow 2 egress (mean 40.83 Mbit/s)
Flow 3 ingress (mean 42.44 Mbit/s) --- Flow 3 egress (mean 42.43 Mbit/s)

Flow 1 (95th percentile 17.22 ms)   Flow 2 (95th percentile 20.11 ms)   Flow 3 (95th percentile 10.40 ms)
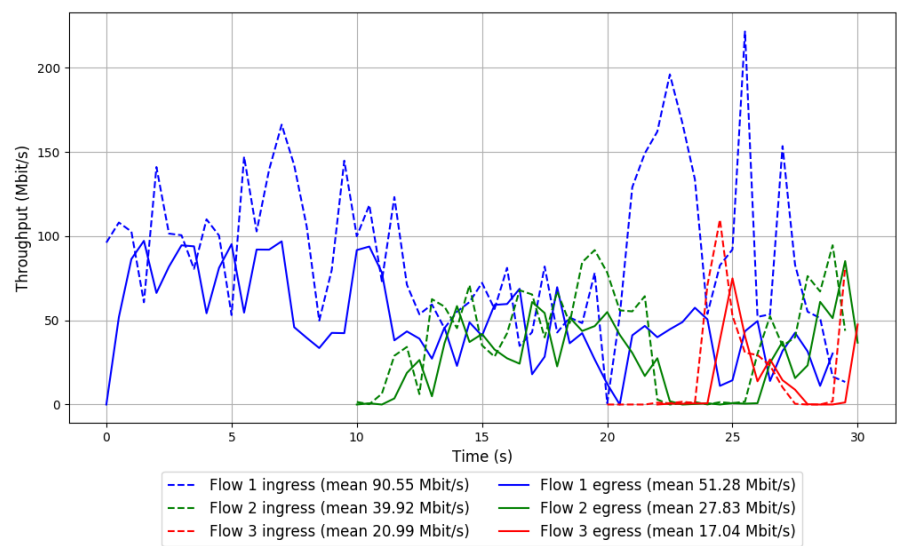
```
Run 1: Statistics of Verus

Start at: 2019-08-26 23:31:26
End at: 2019-08-26 23:31:56
Local clock offset: -0.005 ms
Remote clock offset: 0.541 ms


# Below is generated by plot.py at 2019-08-27 01:45:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.87 Mbit/s
95th percentile per-packet one-way delay: 44.397 ms
Loss rate: 28.66%
-- Flow 1:
Average throughput: 52.53 Mbit/s
95th percentile per-packet one-way delay: 42.770 ms
Loss rate: 21.03%
-- Flow 2:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 48.007 ms
Loss rate: 42.33%
-- Flow 3:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 43.034 ms
Loss rate: 32.30%
```
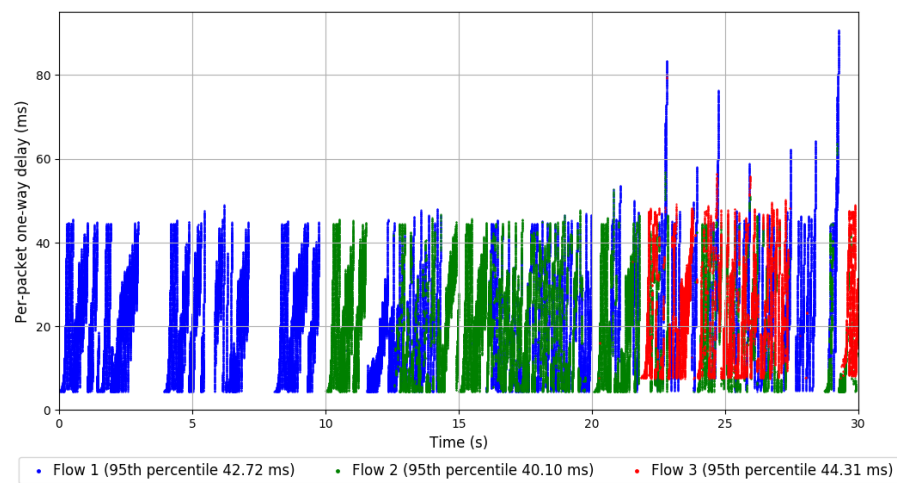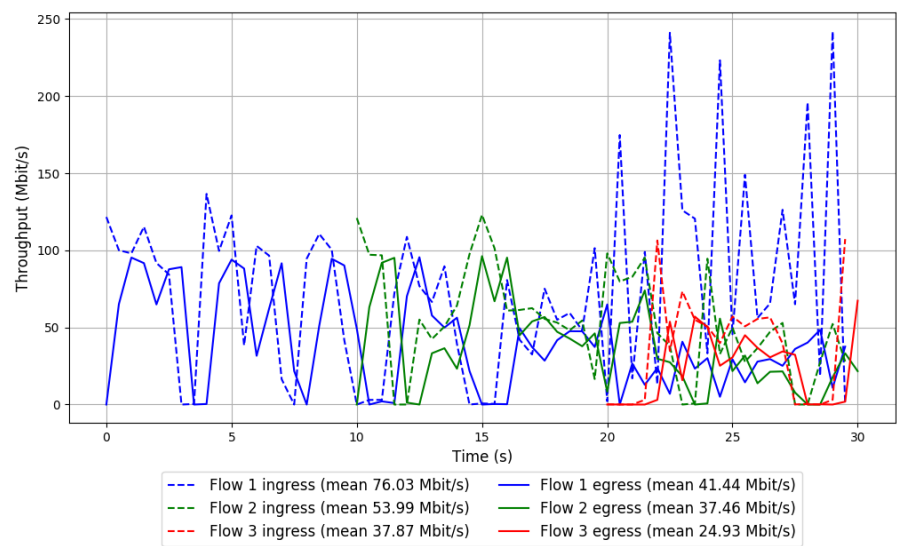
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-08-26 23:59:37
End at: 2019-08-27 00:00:07
Local clock offset: -2.404 ms
Remote clock offset: -0.451 ms


# Below is generated by plot.py at 2019-08-27 01:45:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 48.786 ms
Loss rate: 41.71%
-- Flow 1:
Average throughput: 51.28 Mbit/s
95th percentile per-packet one-way delay: 49.067 ms
Loss rate: 45.53%
-- Flow 2:
Average throughput: 27.83 Mbit/s
95th percentile per-packet one-way delay: 48.003 ms
Loss rate: 30.43%
-- Flow 3:
Average throughput: 17.04 Mbit/s
95th percentile per-packet one-way delay: 48.624 ms
Loss rate: 35.23%
```

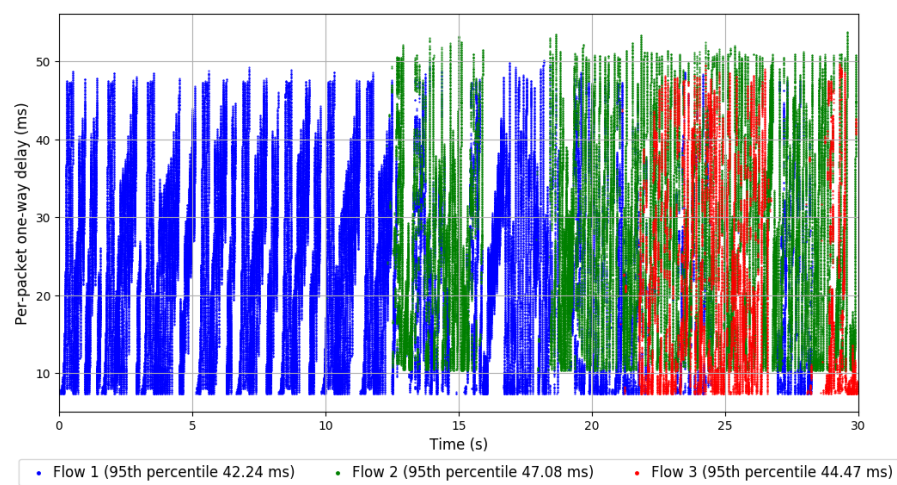Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-08-27 00:27:37
End at: 2019-08-27 00:28:07
Local clock offset: -1.153 ms
Remote clock offset: -3.478 ms


# Below is generated by plot.py at 2019-08-27 01:46:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 42.022 ms
Loss rate: 40.70%
-- Flow 1:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 42.718 ms
Loss rate: 46.60%
-- Flow 2:
Average throughput: 37.46 Mbit/s
95th percentile per-packet one-way delay: 40.097 ms
Loss rate: 30.54%
-- Flow 3:
Average throughput: 24.93 Mbit/s
95th percentile per-packet one-way delay: 44.307 ms
Loss rate: 34.03%
```
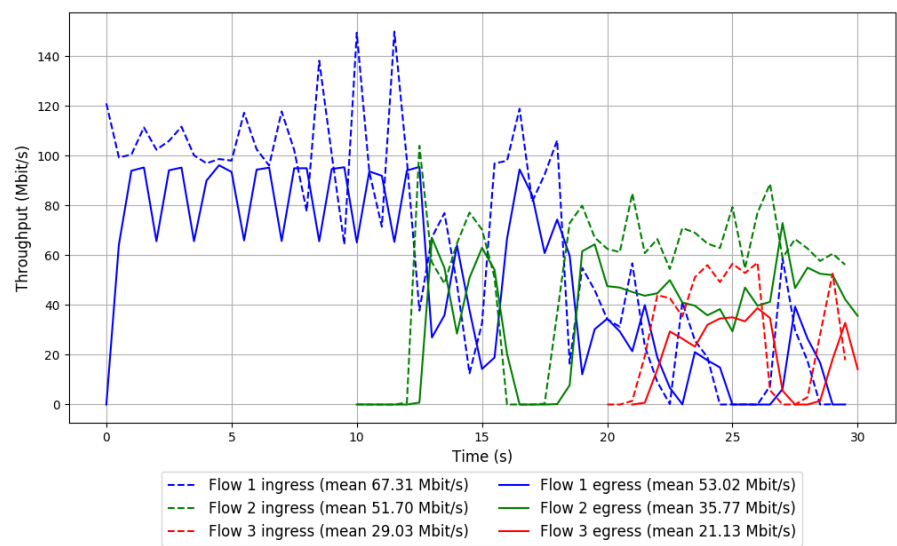
Run 3: Report of Verus — Data Link

- - - - Flow 1 ingress (mean 76.03 Mbit/s) —— Flow 1 egress (mean 41.44 Mbit/s)
- - - - Flow 2 ingress (mean 53.99 Mbit/s) —— Flow 2 egress (mean 37.46 Mbit/s)
- - - - Flow 3 ingress (mean 37.87 Mbit/s) —— Flow 3 egress (mean 24.93 Mbit/s)

• Flow 1 (95th percentile 42.72 ms)   • Flow 2 (95th percentile 40.10 ms)   • Flow 3 (95th percentile 44.31 ms)
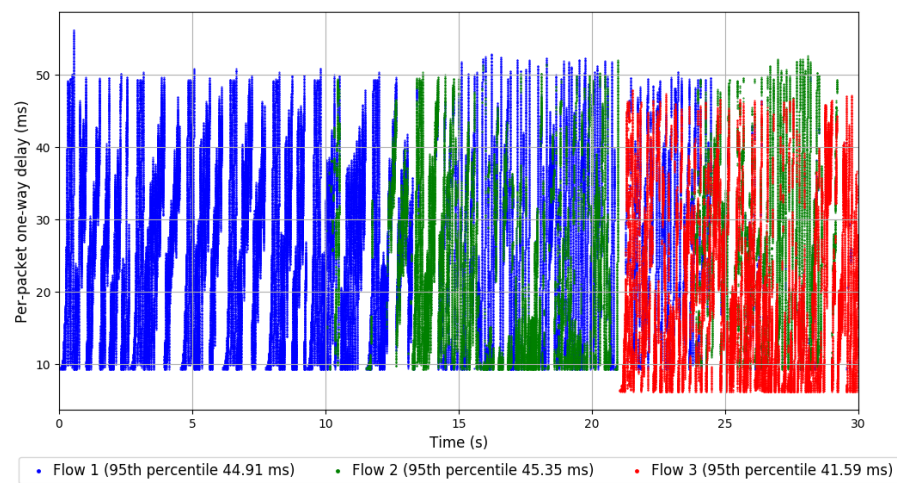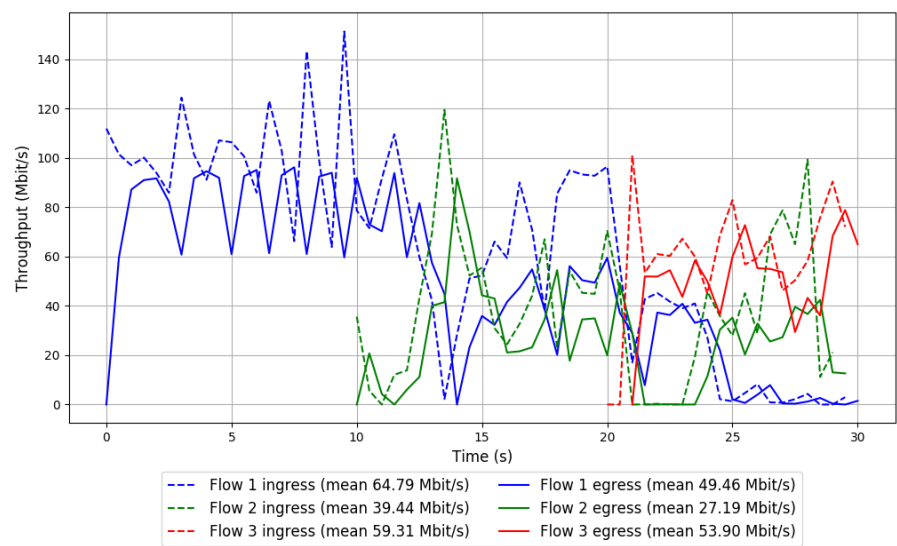
```
Run 4: Statistics of Verus

Start at: 2019-08-27 00:56:06
End at: 2019-08-27 00:56:36
Local clock offset: -2.919 ms
Remote clock offset: -1.479 ms


# Below is generated by plot.py at 2019-08-27 01:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.81 Mbit/s
95th percentile per-packet one-way delay: 44.245 ms
Loss rate: 25.71%
-- Flow 1:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 42.243 ms
Loss rate: 21.83%
-- Flow 2:
Average throughput: 35.77 Mbit/s
95th percentile per-packet one-way delay: 47.081 ms
Loss rate: 30.71%
-- Flow 3:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 44.466 ms
Loss rate: 34.64%
```
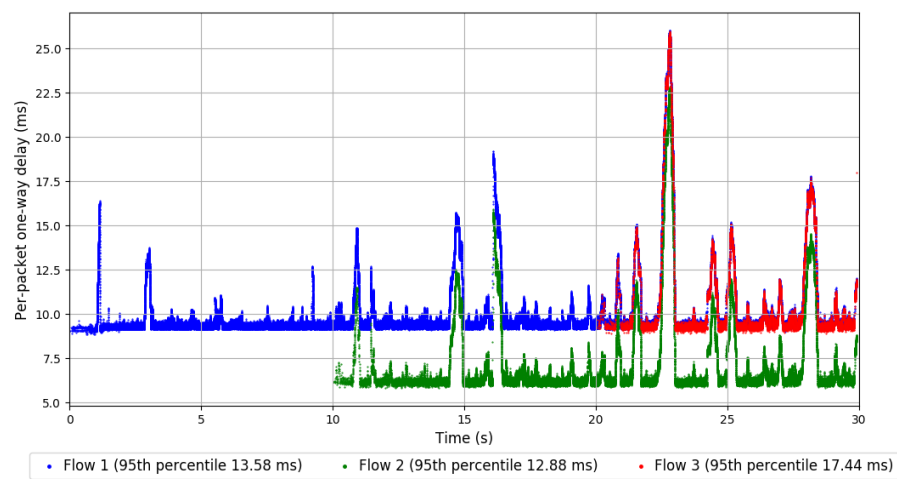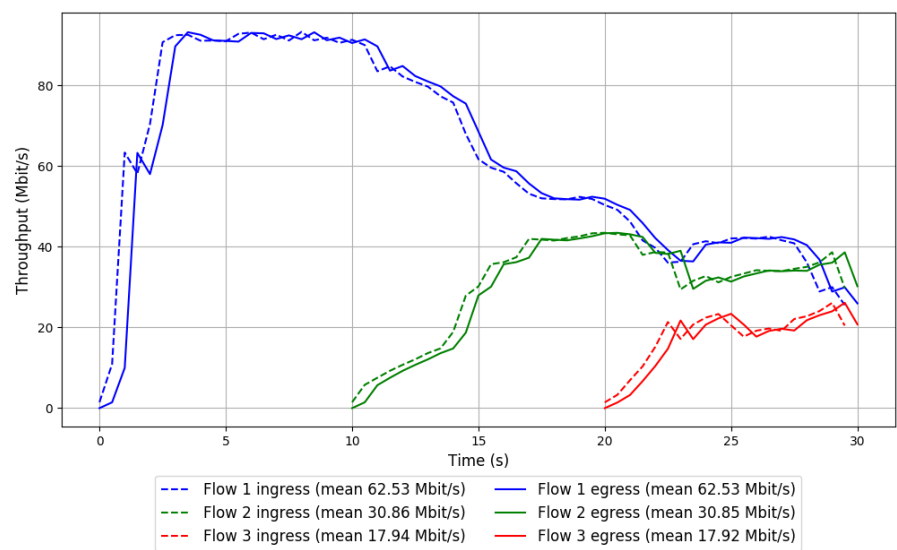
Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 67.31 Mbit/s) --- Flow 1 egress (mean 53.02 Mbit/s)
Flow 2 ingress (mean 51.70 Mbit/s) --- Flow 2 egress (mean 35.77 Mbit/s)
Flow 3 ingress (mean 29.03 Mbit/s) --- Flow 3 egress (mean 21.13 Mbit/s)

Flow 1 (95th percentile 42.24 ms) • Flow 2 (95th percentile 47.08 ms) • Flow 3 (95th percentile 44.47 ms)

```
Run 5: Statistics of Verus

Start at: 2019-08-27 01:24:16
End at: 2019-08-27 01:24:46
Local clock offset: -1.379 ms
Remote clock offset: -1.147 ms


# Below is generated by plot.py at 2019-08-27 01:46:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.52 Mbit/s
95th percentile per-packet one-way delay: 44.415 ms
Loss rate: 24.42%
-- Flow 1:
Average throughput: 49.46 Mbit/s
95th percentile per-packet one-way delay: 44.915 ms
Loss rate: 23.73%
-- Flow 2:
Average throughput: 27.19 Mbit/s
95th percentile per-packet one-way delay: 45.348 ms
Loss rate: 31.11%
-- Flow 3:
Average throughput: 53.90 Mbit/s
95th percentile per-packet one-way delay: 41.589 ms
Loss rate: 18.09%
```
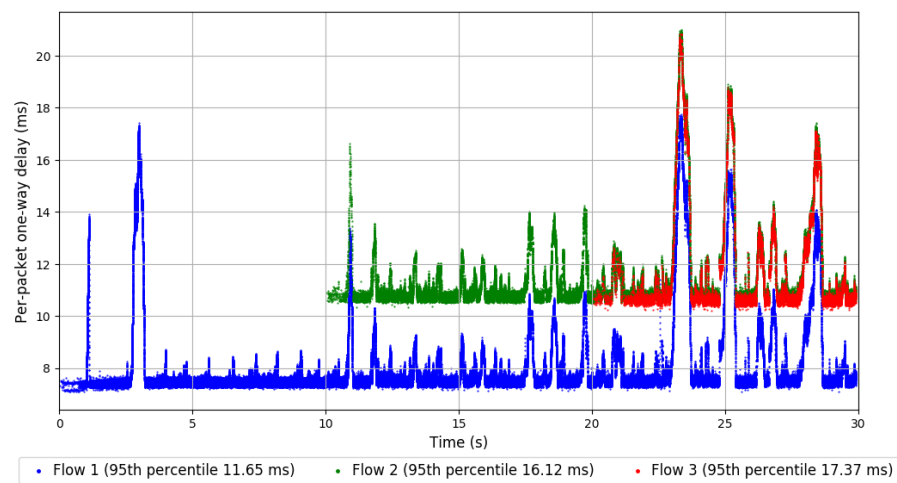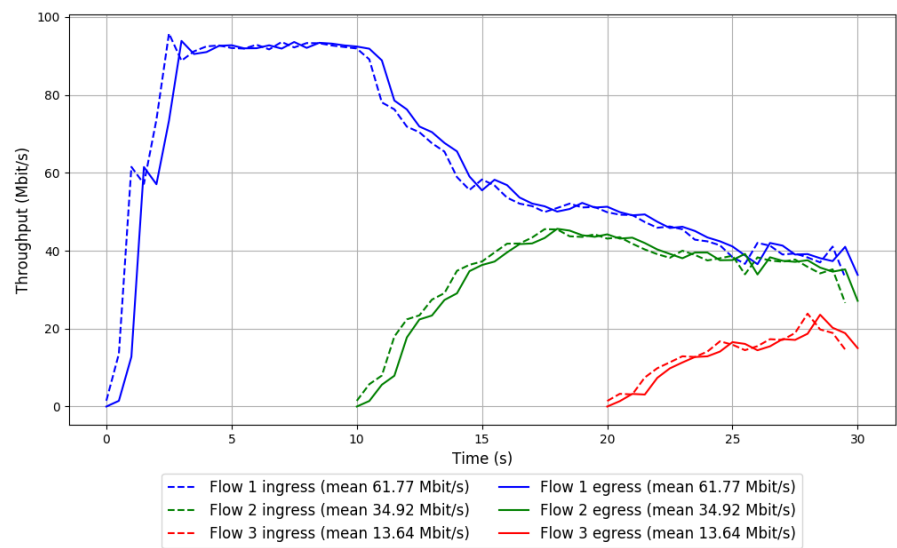
Run 5: Report of Verus — Data Link

- - - Flow 1 ingress (mean 64.79 Mbit/s)   —— Flow 1 egress (mean 49.46 Mbit/s)
- - - Flow 2 ingress (mean 39.44 Mbit/s)   —— Flow 2 egress (mean 27.19 Mbit/s)
- - - Flow 3 ingress (mean 59.31 Mbit/s)   —— Flow 3 egress (mean 53.90 Mbit/s)

• Flow 1 (95th percentile 44.91 ms)   • Flow 2 (95th percentile 45.35 ms)   • Flow 3 (95th percentile 41.59 ms)

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-08-26 23:30:13
End at: 2019-08-26 23:30:43
Local clock offset: -1.716 ms
Remote clock offset: -2.844 ms


# Below is generated by plot.py at 2019-08-27 01:46:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.95 Mbit/s
95th percentile per-packet one-way delay: 13.758 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 62.53 Mbit/s
95th percentile per-packet one-way delay: 13.578 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.85 Mbit/s
95th percentile per-packet one-way delay: 12.881 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.92 Mbit/s
95th percentile per-packet one-way delay: 17.438 ms
Loss rate: 0.04%
```
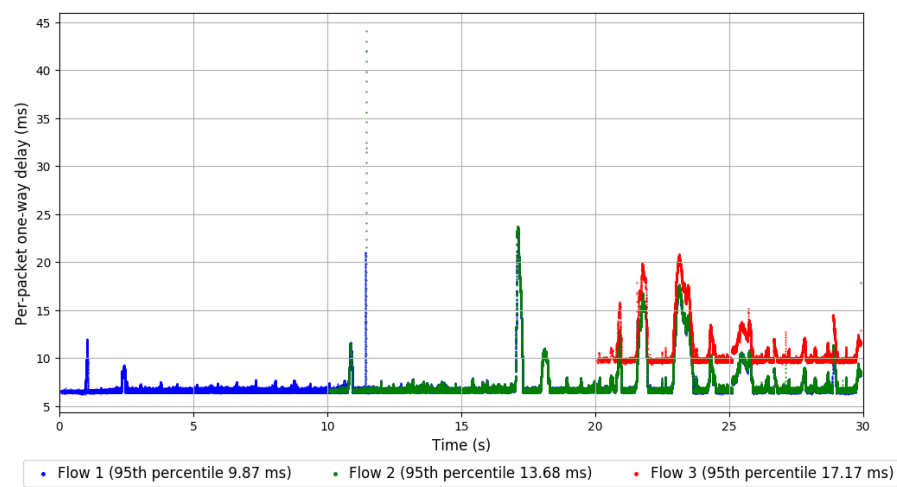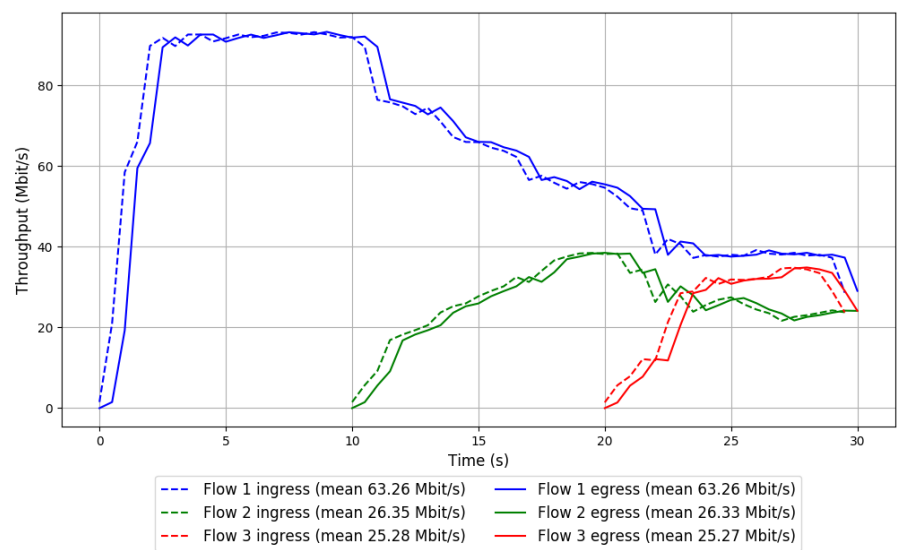
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-08-26 23:58:25
End at: 2019-08-26 23:58:55
Local clock offset: -3.318 ms
Remote clock offset: -2.726 ms


# Below is generated by plot.py at 2019-08-27 01:46:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.49 Mbit/s
95th percentile per-packet one-way delay: 13.847 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 61.77 Mbit/s
95th percentile per-packet one-way delay: 11.651 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.92 Mbit/s
95th percentile per-packet one-way delay: 16.123 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 13.64 Mbit/s
95th percentile per-packet one-way delay: 17.372 ms
Loss rate: 0.03%
```
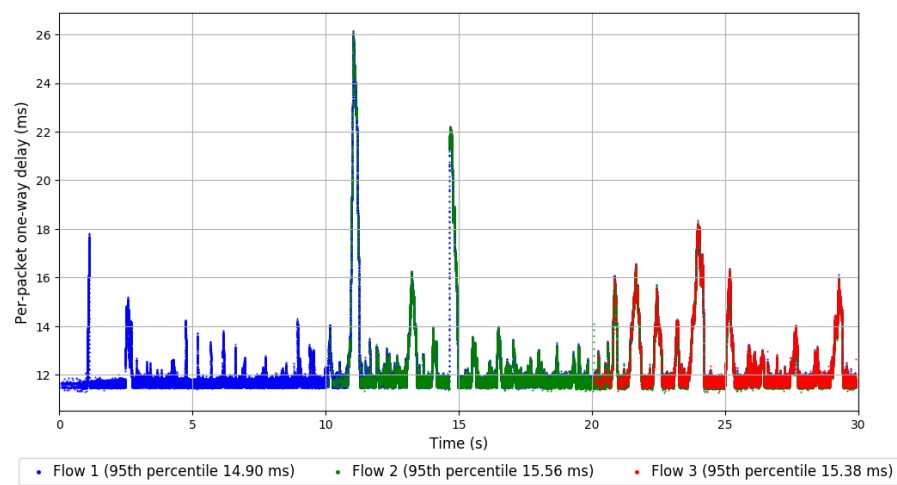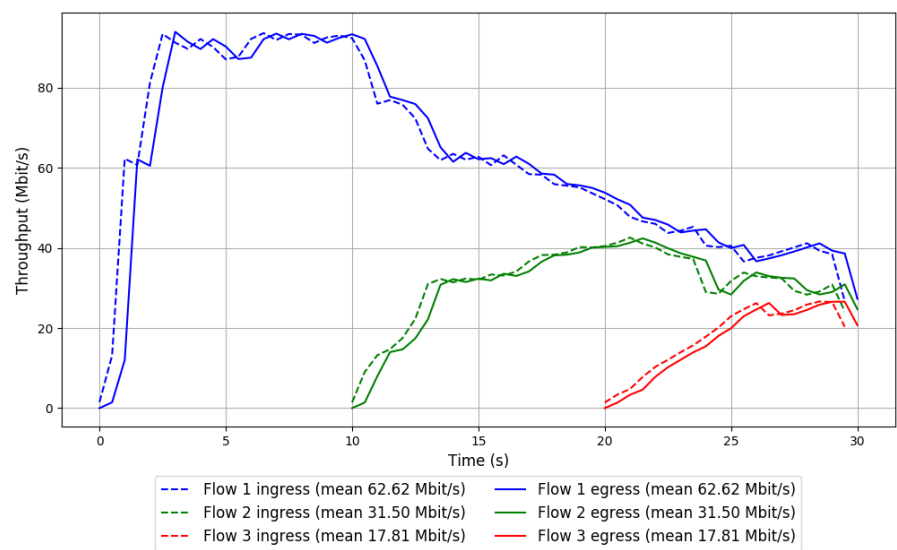
Run 2: Report of PCC-Vivace — Data Link

228

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 00:26:25
End at: 2019-08-27 00:26:55
Local clock offset: -2.046 ms
Remote clock offset: -2.411 ms


# Below is generated by plot.py at 2019-08-27 01:46:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.10 Mbit/s
95th percentile per-packet one-way delay: 12.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.26 Mbit/s
95th percentile per-packet one-way delay: 9.865 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.33 Mbit/s
95th percentile per-packet one-way delay: 13.684 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.27 Mbit/s
95th percentile per-packet one-way delay: 17.171 ms
Loss rate: 0.03%
```
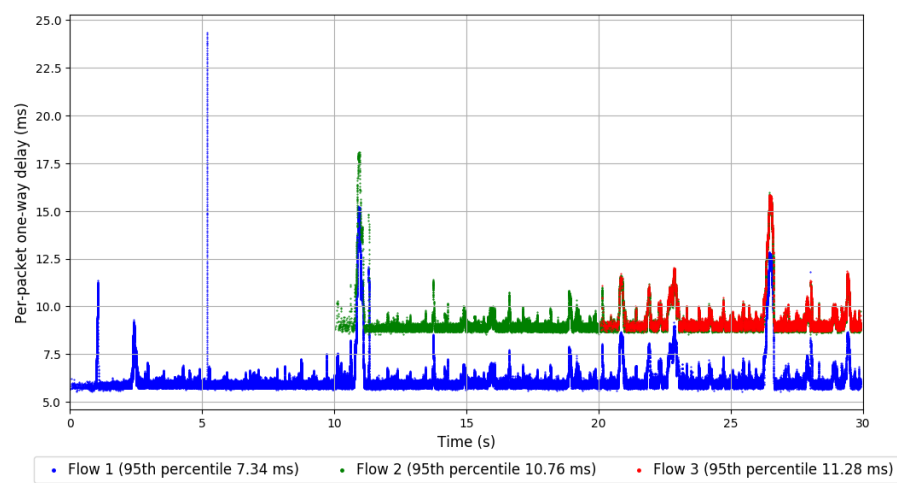
Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 00:54:52
End at: 2019-08-27 00:55:22
Local clock offset: -2.623 ms
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2019-08-27 01:46:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 15.161 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 62.62 Mbit/s
95th percentile per-packet one-way delay: 14.900 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 15.563 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 15.384 ms
Loss rate: 0.05%
```

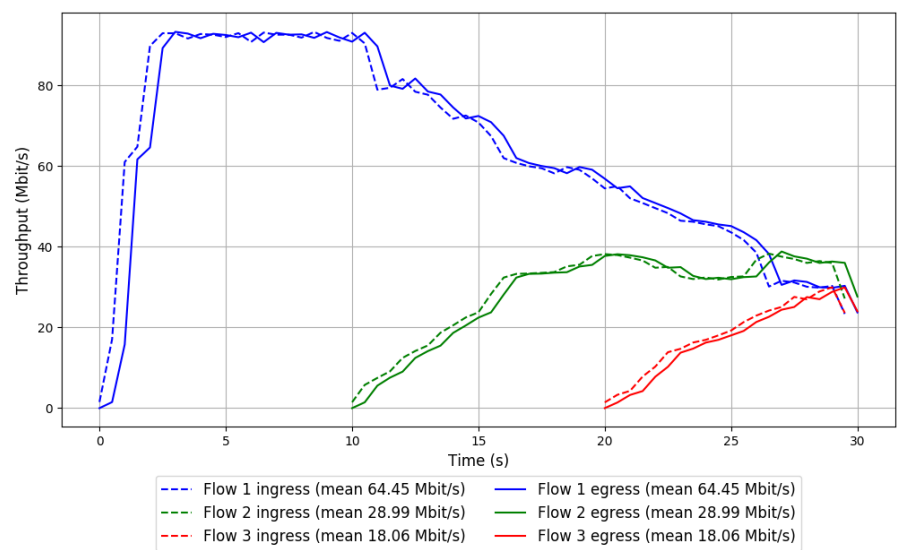Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 01:23:04
End at: 2019-08-27 01:23:34
Local clock offset: -1.225 ms
Remote clock offset: -1.723 ms


# Below is generated by plot.py at 2019-08-27 01:46:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.68 Mbit/s
95th percentile per-packet one-way delay: 9.741 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 64.45 Mbit/s
95th percentile per-packet one-way delay: 7.342 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.99 Mbit/s
95th percentile per-packet one-way delay: 10.761 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 18.06 Mbit/s
95th percentile per-packet one-way delay: 11.276 ms
Loss rate: 0.05%
```

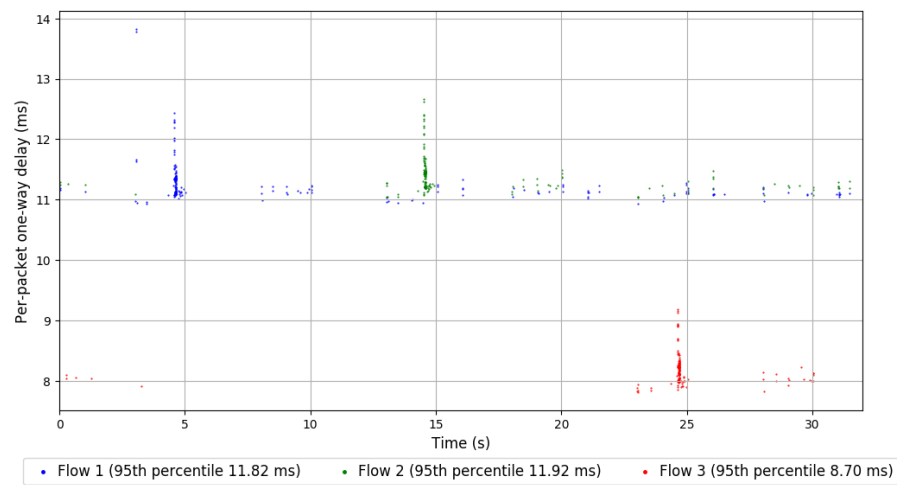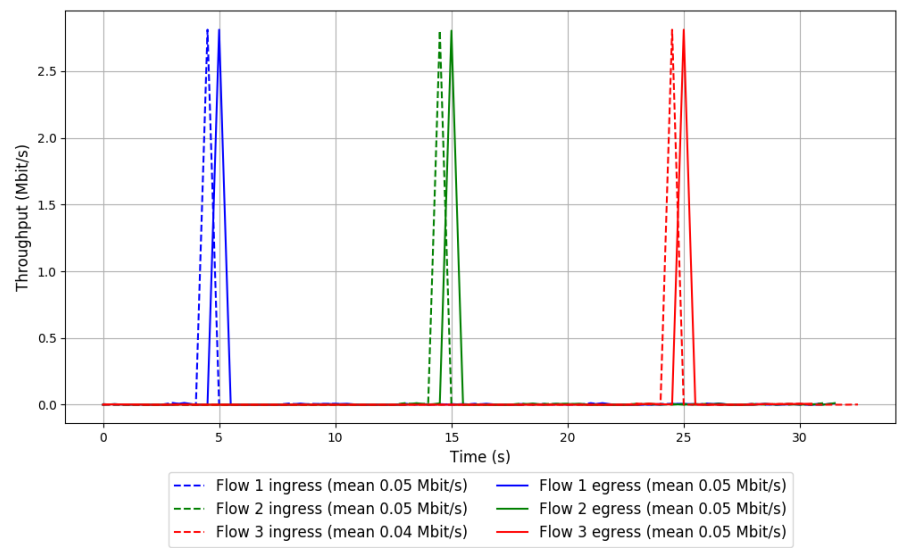# Run 5: Report of PCC-Vivace — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2019-08-26 23:15:12
End at: 2019-08-26 23:15:42
Local clock offset: -1.856 ms
Remote clock offset: -1.646 ms


# Below is generated by plot.py at 2019-08-27 01:46:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 11.692 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.821 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 11.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 8.703 ms
Loss rate: 0.05%
```

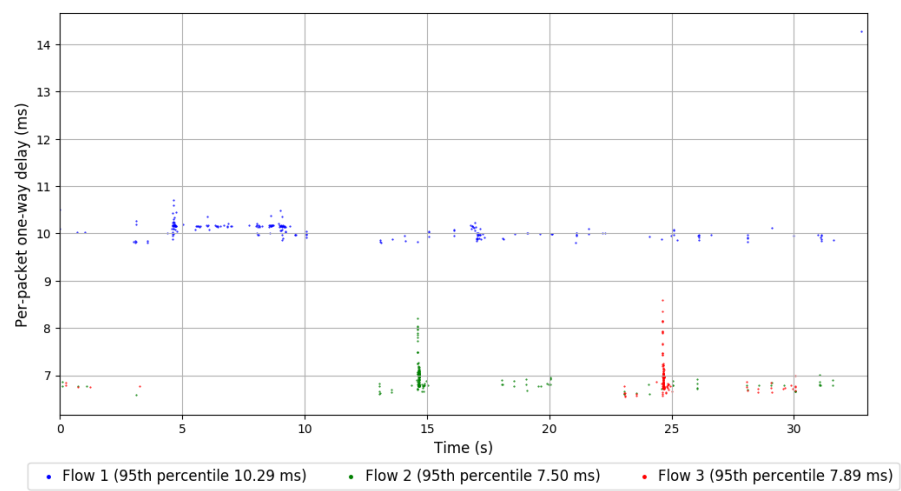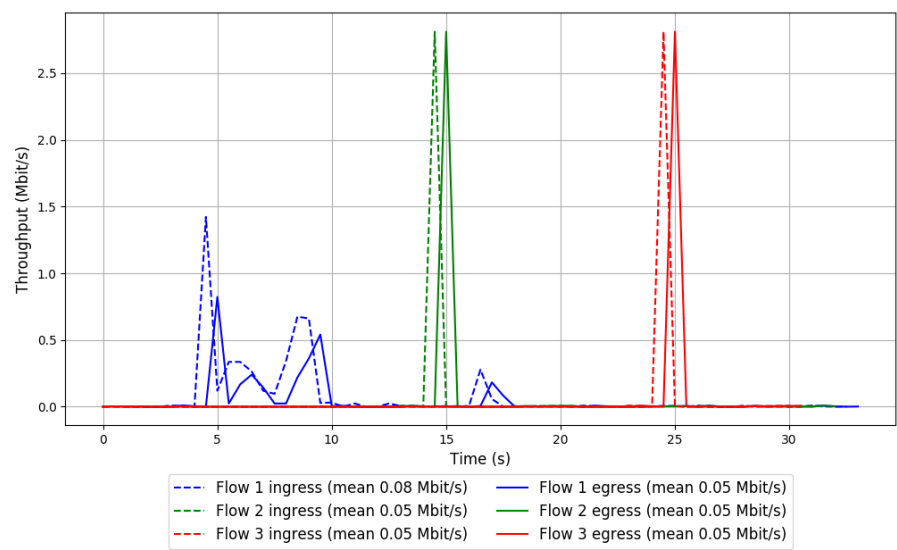Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-08-26 23:43:13
End at: 2019-08-26 23:43:43
Local clock offset: -1.996 ms
Remote clock offset: -2.166 ms


# Below is generated by plot.py at 2019-08-27 01:46:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 10.177 ms
Loss rate: 18.48%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 10.293 ms
Loss rate: 40.08%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 7.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 7.889 ms
Loss rate: 0.00%
```

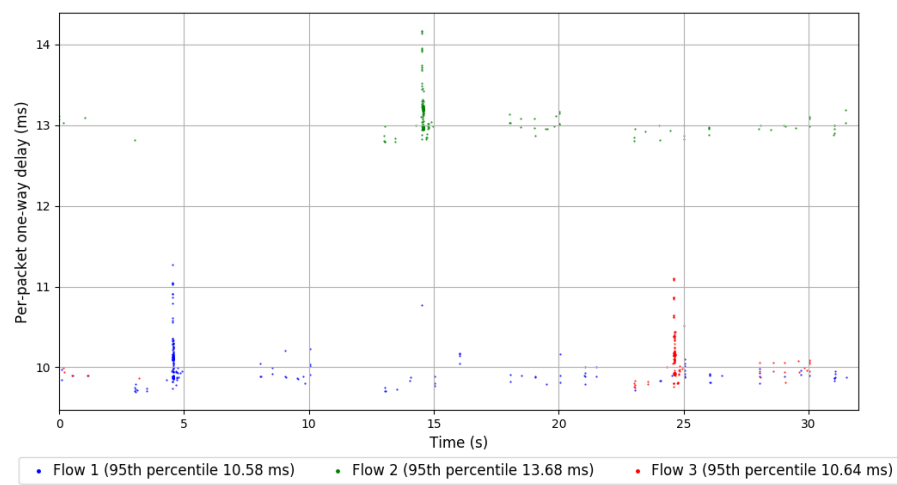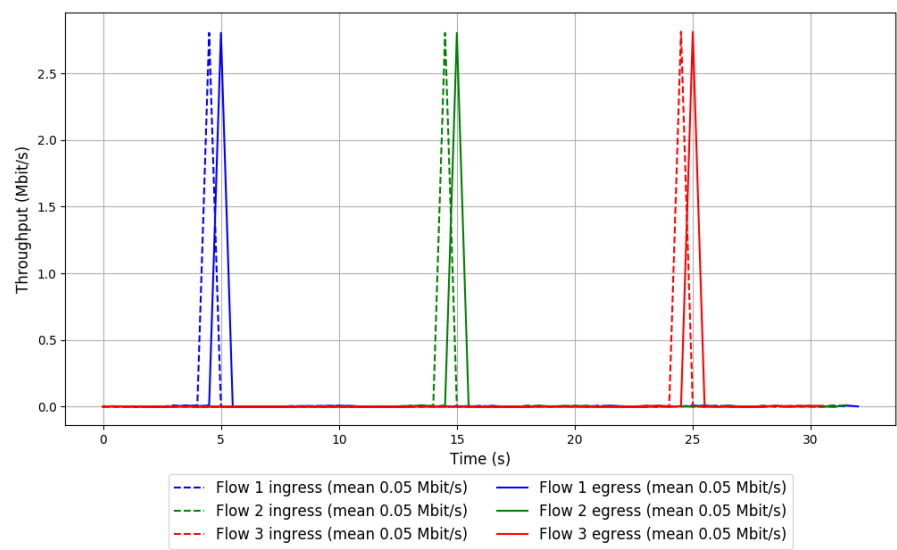Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-08-27 00:11:25
End at: 2019-08-27 00:11:55
Local clock offset: -3.828 ms
Remote clock offset: -0.447 ms


# Below is generated by plot.py at 2019-08-27 01:46:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 13.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 10.581 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 13.676 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 10.639 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2019-08-27 00:39:28
End at: 2019-08-27 00:39:58
Local clock offset: -3.6 ms
Remote clock offset: 0.265 ms


# Below is generated by plot.py at 2019-08-27 01:46:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 13.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 10.419 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 10.677 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 13.834 ms
Loss rate: 0.00%
```
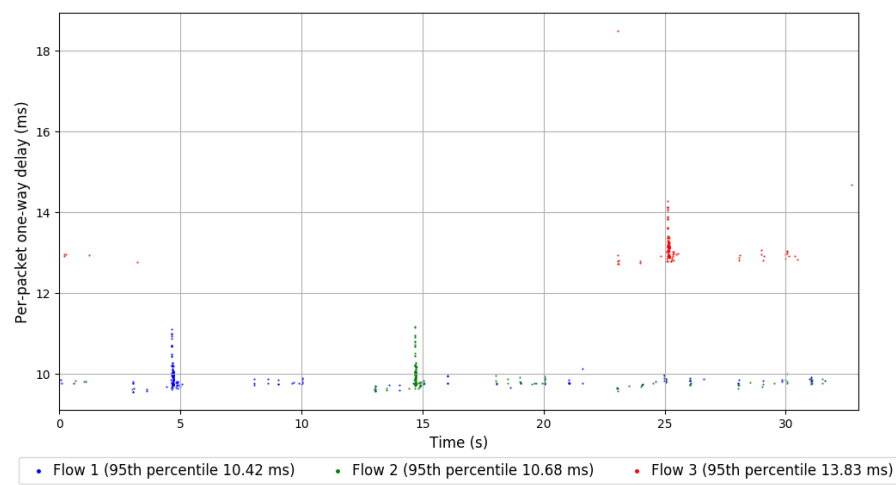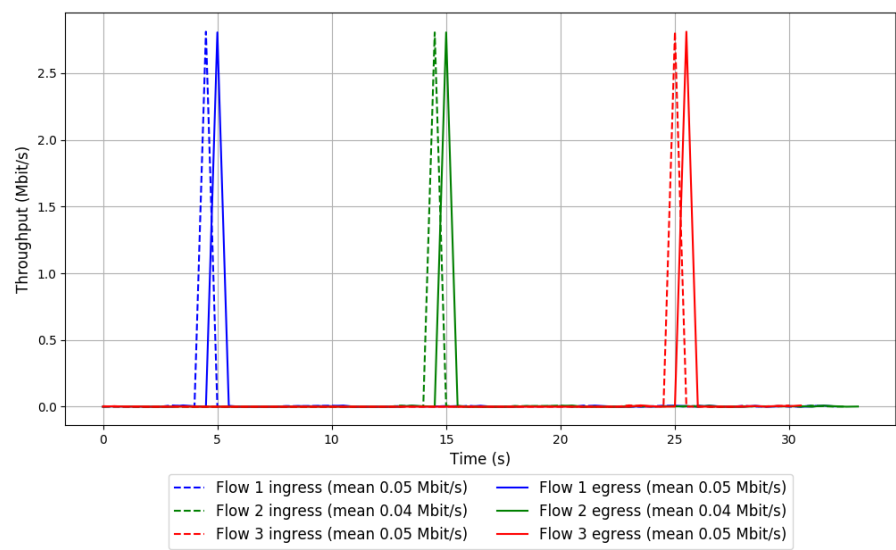
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-08-27 01:07:55
End at: 2019-08-27 01:08:25
Local clock offset: -2.569 ms
Remote clock offset: -0.076 ms


# Below is generated by plot.py at 2019-08-27 01:46:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 9.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.219 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.205 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 9.527 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link