Pantheon Report

Generated at 2020-02-18 04:02:14 (UTC).

Data path: AWS Brazil 2 on `ens5` (*local*) →Colombia on `p4p1` (*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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

```
System info:
Linux 4.15.0-1056-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 Brazil 2 to Colombia, 5 runs of 30s each per scheme
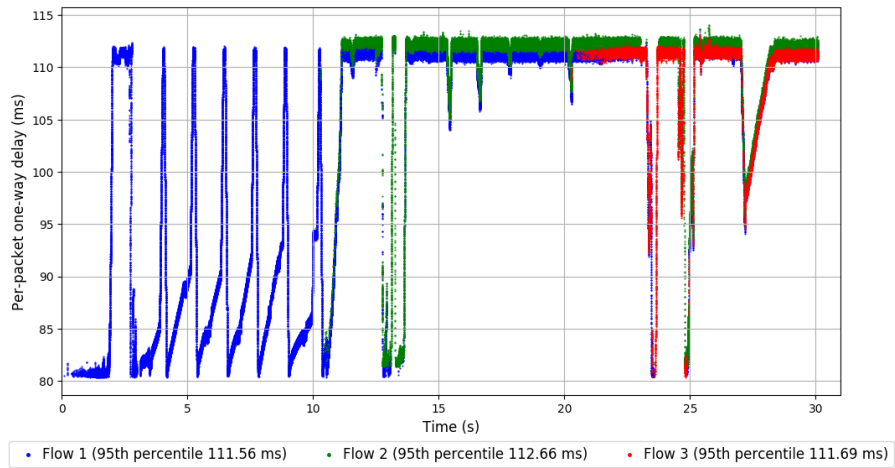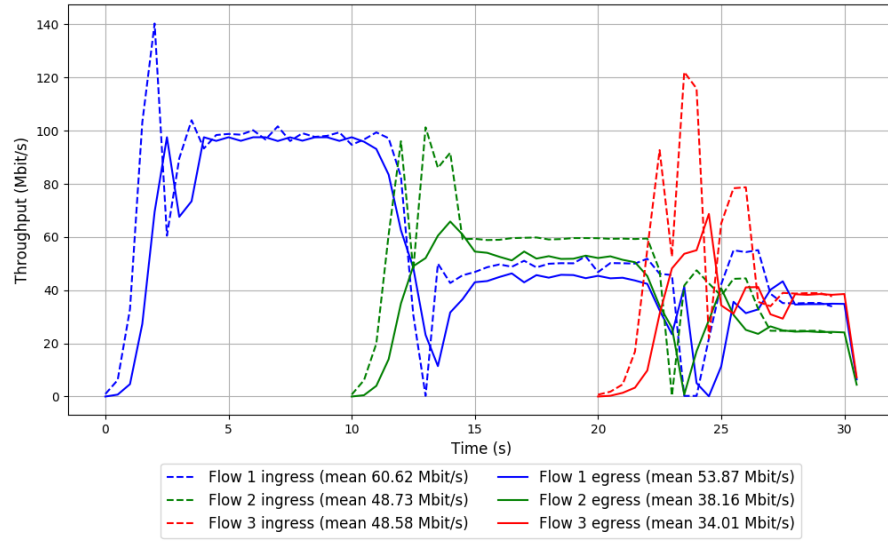## 3 flows with 10s interval between flows (mean of all runs by scheme)

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

3
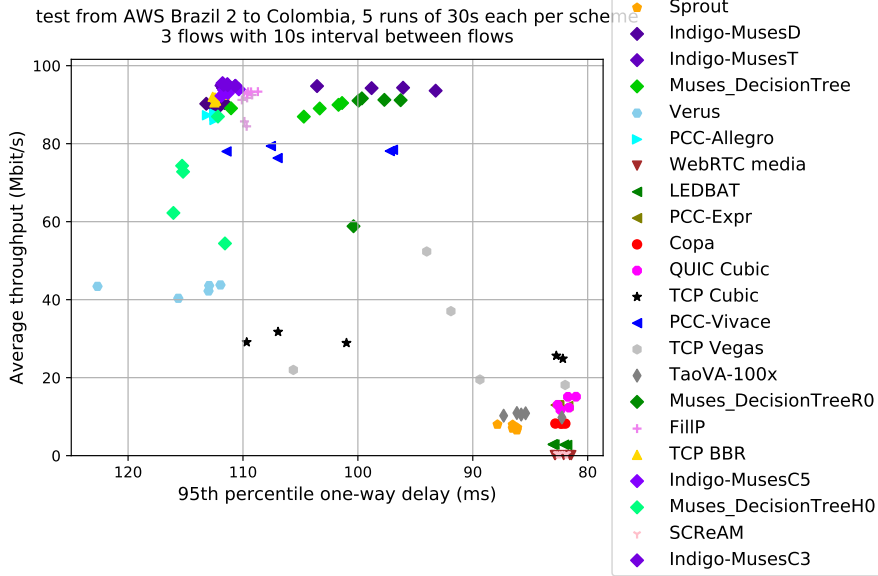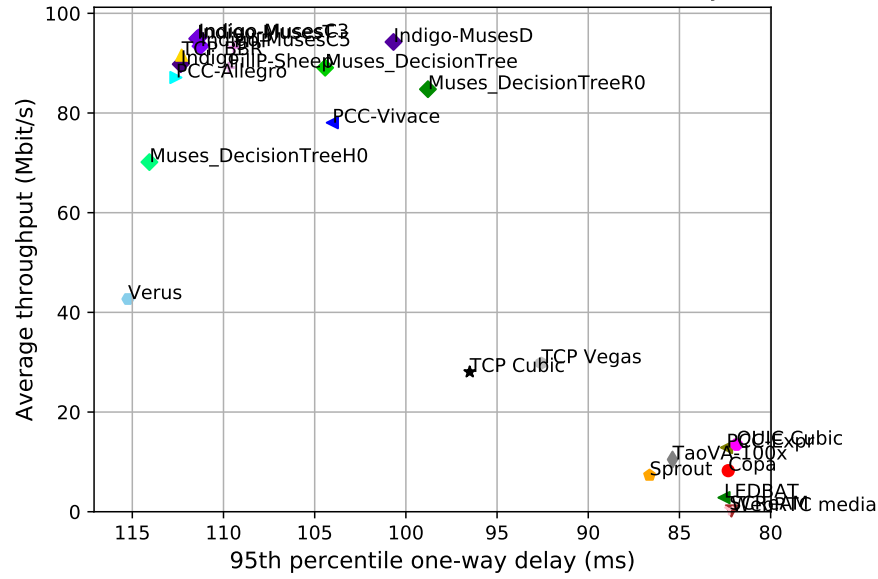
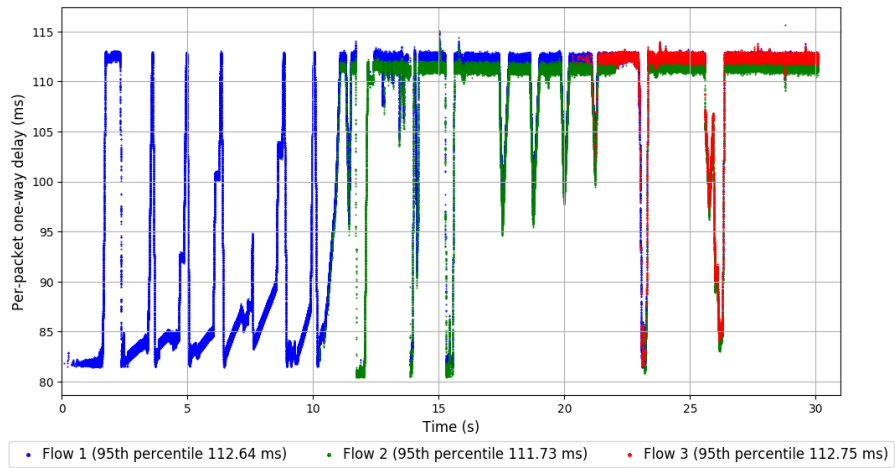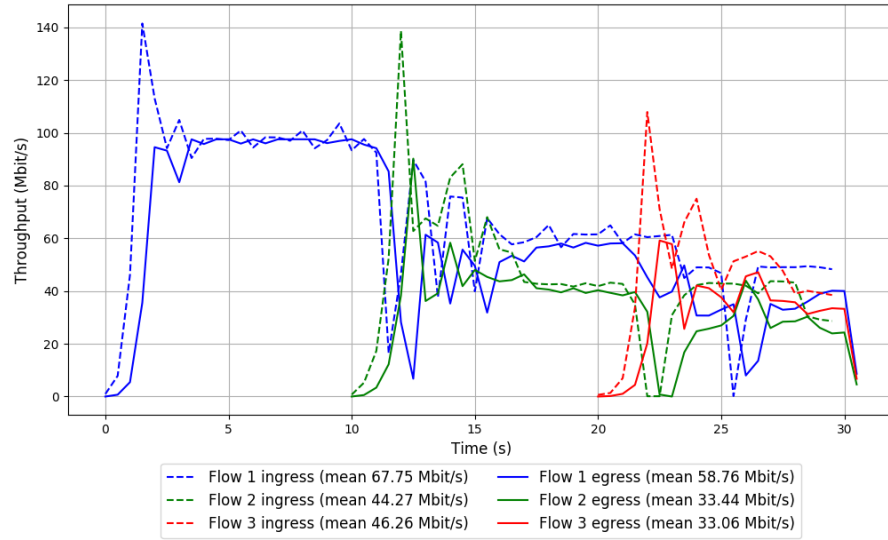| scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	57.33	35.97	31.02	111.94	111.82	112.27	11.13	17.64	27.05
Copa	5	0.00	10.11	4.55	81.21	82.19	81.67	98.38	71.34	71.26
TCP Cubic	5	10.39	10.97	31.13	85.36	88.67	99.50	0.09	0.23	1.68
FillP	5	57.08	40.67	27.32	108.98	109.72	109.34	14.23	25.69	27.36
FillP-Sheep	5	55.28	34.97	31.91	109.04	109.84	109.58	5.90	11.66	12.81
Indigo	5	57.74	34.31	28.97	111.97	112.30	112.82	7.20	15.35	32.08
Indigo-MusesC3	5	49.85	48.31	48.29	110.50	111.52	111.59	0.95	2.16	3.17
Indigo-MusesC5	5	58.59	50.28	7.98	109.90	111.63	110.87	2.53	4.49	5.02
Indigo-MusesD	5	61.00	39.58	26.27	99.36	100.79	101.73	0.89	0.95	2.07
Indigo-MusesT	5	54.34	44.26	40.92	111.26	111.43	111.13	3.66	4.17	9.19
LEDBAT	5	1.43	1.41	1.40	82.28	82.46	82.12	0.02	0.02	0.08
Muses_DecisionTree	5	72.05	18.70	14.41	104.25	103.15	101.68	0.70	0.82	2.04
Muses_DecisionTreeH0	5	51.78	23.11	9.55	113.84	113.01	112.74	36.38	33.11	34.80
Muses_DecisionTreeR0	5	64.58	24.72	11.76	98.51	98.31	96.59	0.10	0.02	0.03
PCC-Allegro	5	77.55	9.44	9.99	112.56	112.43	112.65	3.18	3.11	4.20
PCC-Expr	5	7.66	5.93	3.88	82.23	82.45	82.46	56.30	33.96	41.62
QUIC Cubic	5	7.83	6.34	4.32	81.70	81.89	81.50	0.04	0.04	0.05
SCReAM	5	0.21	0.21	0.22	81.74	82.33	81.75	0.03	0.06	0.00
Sprout	5	3.72	3.68	3.52	86.25	86.65	87.66	0.29	0.39	0.41
TaoVA-100x	5	14.36	8.79	7.94	93.24	82.87	81.71	24.87	23.02	79.83
TCP Vegas	5	12.06	15.90	21.51	92.66	92.99	93.98	1.39	1.44	1.84
Verus	5	23.35	22.98	12.79	114.75	117.63	111.33	43.09	47.06	18.40
PCC-Vivace	5	65.10	15.90	7.18	104.50	98.72	98.21	0.23	0.29	0.29
WebRTC media	5	0.05	0.08	0.16	81.68	82.19	82.10	0.01	0.00	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2020-02-18 01:28:30
End at: 2020-02-18 01:29:00
Local clock offset: -0.117 ms
Remote clock offset: -8.874 ms


# Below is generated by plot.py at 2020-02-18 03:51:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 112.486 ms
Loss rate: 16.99%
-- Flow 1:
Average throughput: 53.87 Mbit/s
95th percentile per-packet one-way delay: 111.560 ms
Loss rate: 11.05%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 112.657 ms
Loss rate: 21.62%
-- Flow 3:
Average throughput: 34.01 Mbit/s
95th percentile per-packet one-way delay: 111.691 ms
Loss rate: 29.99%
```
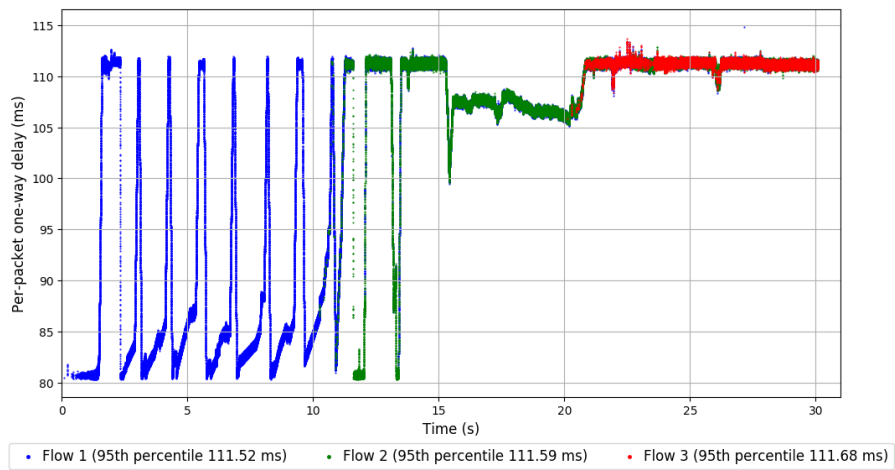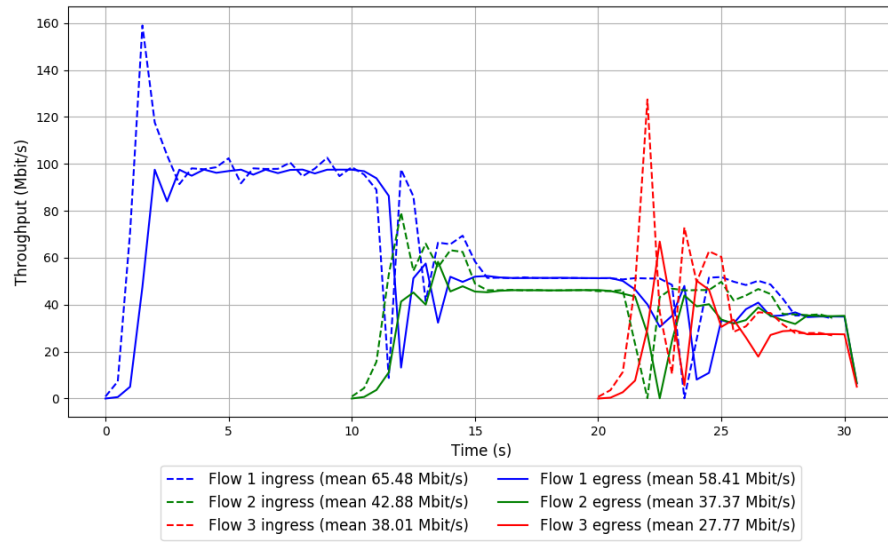
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 60.62 Mbit/s) --- Flow 1 egress (mean 53.87 Mbit/s)
Flow 2 ingress (mean 48.73 Mbit/s) --- Flow 2 egress (mean 38.16 Mbit/s)
Flow 3 ingress (mean 48.58 Mbit/s) --- Flow 3 egress (mean 34.01 Mbit/s)

Flow 1 (95th percentile 111.56 ms)   Flow 2 (95th percentile 112.66 ms)   Flow 3 (95th percentile 111.69 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2020-02-18 01:58:39
End at: 2020-02-18 01:59:09
Local clock offset: 0.046 ms
Remote clock offset: -8.824 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 112.633 ms
Loss rate: 18.22%
-- Flow 1:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 112.638 ms
Loss rate: 13.19%
-- Flow 2:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 111.729 ms
Loss rate: 24.43%
-- Flow 3:
Average throughput: 33.06 Mbit/s
95th percentile per-packet one-way delay: 112.749 ms
Loss rate: 28.50%
```
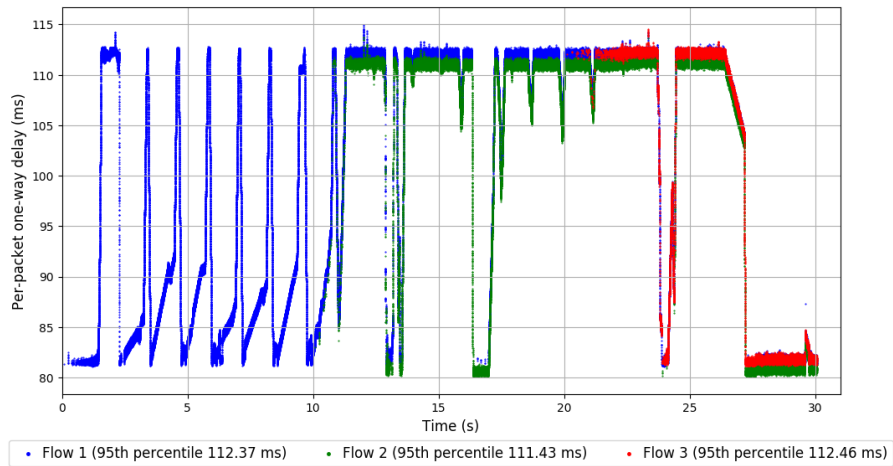
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 67.75 Mbit/s) — — — Flow 1 egress (mean 58.76 Mbit/s)
Flow 2 ingress (mean 44.27 Mbit/s) — — — Flow 2 egress (mean 33.44 Mbit/s)
Flow 3 ingress (mean 46.26 Mbit/s) — — — Flow 3 egress (mean 33.06 Mbit/s)

Flow 1 (95th percentile 112.64 ms) • Flow 2 (95th percentile 111.73 ms) • Flow 3 (95th percentile 112.75 ms)
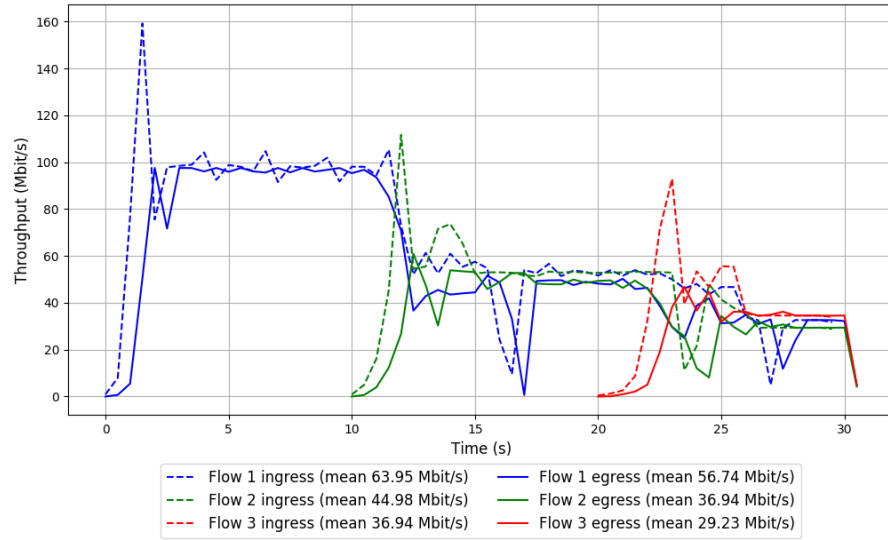
```
Run 3: Statistics of TCP BBR

Start at: 2020-02-18 02:28:59
End at: 2020-02-18 02:29:29
Local clock offset: -0.311 ms
Remote clock offset: -8.436 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 111.576 ms
Loss rate: 13.17%
-- Flow 1:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 111.523 ms
Loss rate: 10.71%
-- Flow 2:
Average throughput: 37.37 Mbit/s
95th percentile per-packet one-way delay: 111.593 ms
Loss rate: 12.73%
-- Flow 3:
Average throughput: 27.77 Mbit/s
95th percentile per-packet one-way delay: 111.681 ms
Loss rate: 26.92%
```
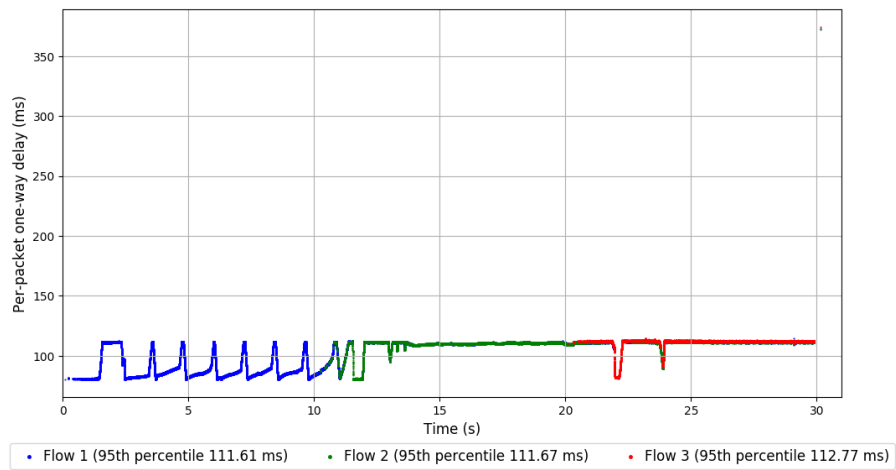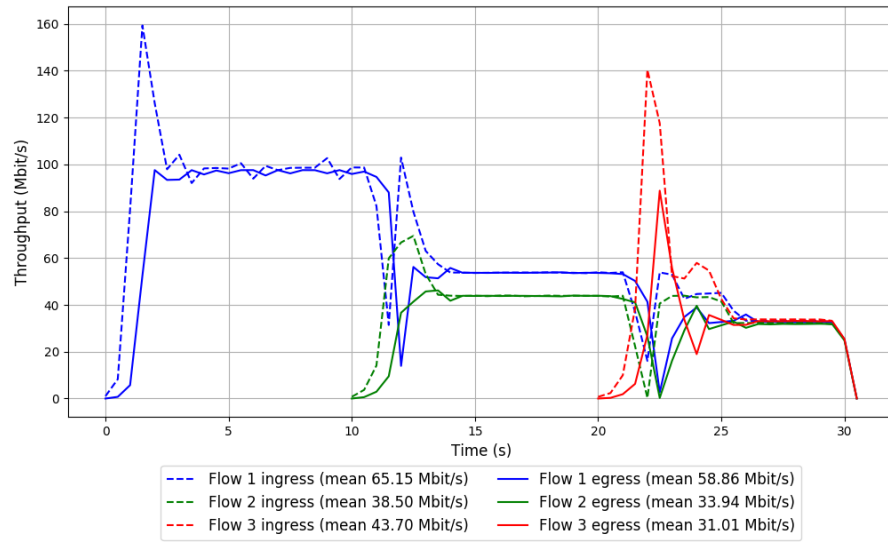
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 65.48 Mbit/s)   Flow 1 egress (mean 58.41 Mbit/s)
Flow 2 ingress (mean 42.88 Mbit/s)   Flow 2 egress (mean 37.37 Mbit/s)
Flow 3 ingress (mean 38.01 Mbit/s)   Flow 3 egress (mean 27.77 Mbit/s)

Flow 1 (95th percentile 111.52 ms)   Flow 2 (95th percentile 111.59 ms)   Flow 3 (95th percentile 111.68 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2020-02-18 02:59:05
End at: 2020-02-18 02:59:35
Local clock offset: -0.135 ms
Remote clock offset: -9.059 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 112.345 ms
Loss rate: 14.28%
-- Flow 1:
Average throughput: 56.74 Mbit/s
95th percentile per-packet one-way delay: 112.372 ms
Loss rate: 11.28%
-- Flow 2:
Average throughput: 36.94 Mbit/s
95th percentile per-packet one-way delay: 111.428 ms
Loss rate: 17.89%
-- Flow 3:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 112.460 ms
Loss rate: 21.13%
```
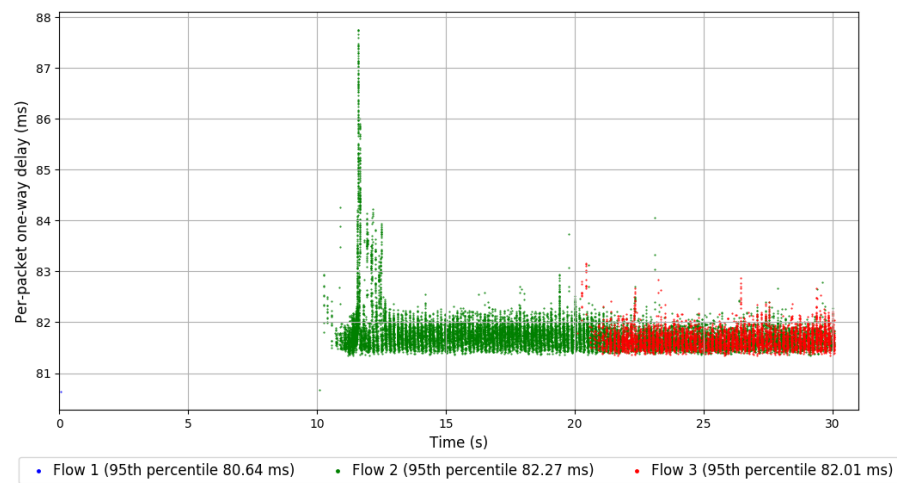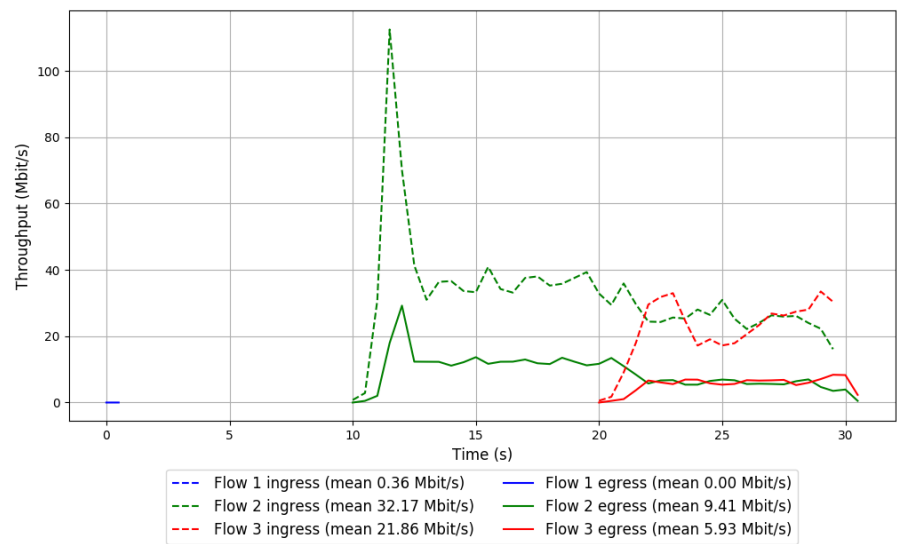
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 63.95 Mbit/s)   Flow 1 egress (mean 56.74 Mbit/s)
Flow 2 ingress (mean 44.98 Mbit/s)   Flow 2 egress (mean 36.94 Mbit/s)
Flow 3 ingress (mean 36.94 Mbit/s)   Flow 3 egress (mean 29.23 Mbit/s)

Flow 1 (95th percentile 112.37 ms)   Flow 2 (95th percentile 111.43 ms)   Flow 3 (95th percentile 112.46 ms)
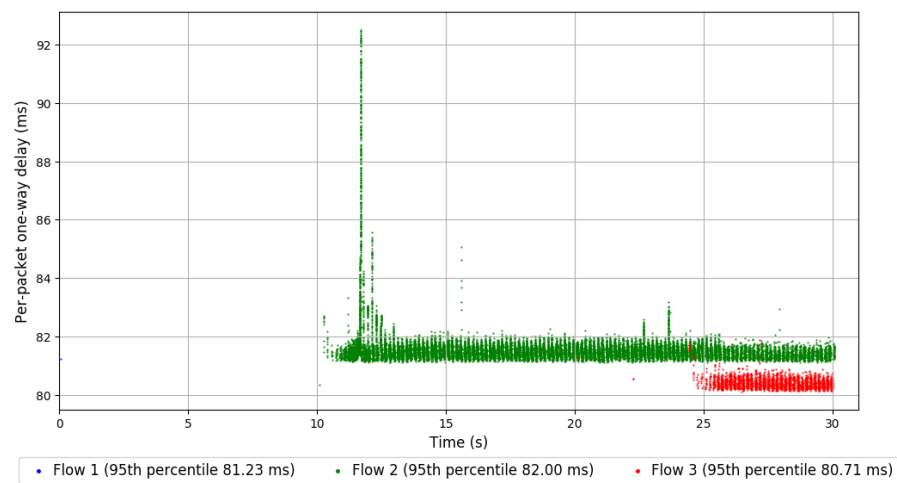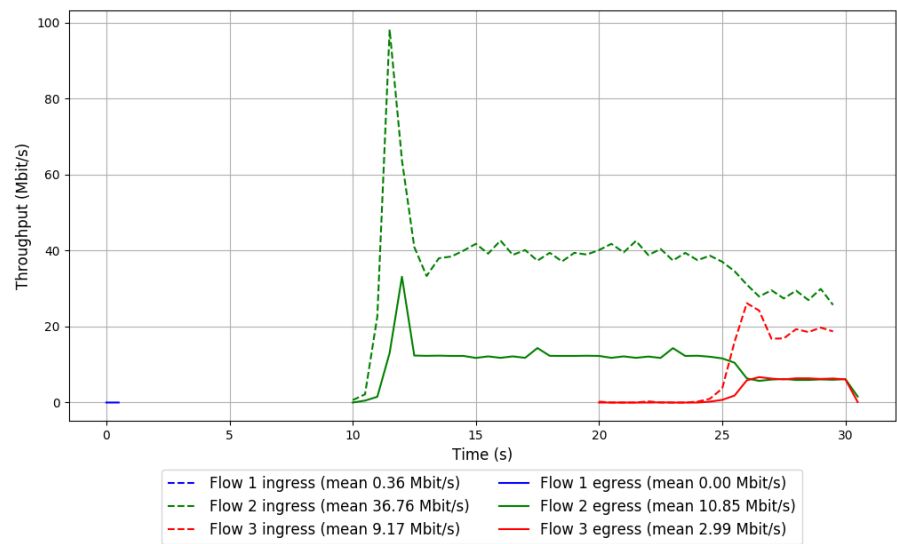
```
Run 5: Statistics of TCP BBR

Start at: 2020-02-18 03:29:07
End at: 2020-02-18 03:29:37
Local clock offset: -0.896 ms
Remote clock offset: -8.809 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.83 Mbit/s
95th percentile per-packet one-way delay: 112.438 ms
Loss rate: 12.59%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 111.615 ms
Loss rate: 9.42%
-- Flow 2:
Average throughput: 33.94 Mbit/s
95th percentile per-packet one-way delay: 111.674 ms
Loss rate: 11.53%
-- Flow 3:
Average throughput: 31.01 Mbit/s
95th percentile per-packet one-way delay: 112.767 ms
Loss rate: 28.70%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 65.15 Mbit/s) --- Flow 1 egress (mean 58.86 Mbit/s)
Flow 2 ingress (mean 38.50 Mbit/s) --- Flow 2 egress (mean 33.94 Mbit/s)
Flow 3 ingress (mean 43.70 Mbit/s) --- Flow 3 egress (mean 31.01 Mbit/s)

Flow 1 (95th percentile 111.61 ms)   Flow 2 (95th percentile 111.67 ms)   Flow 3 (95th percentile 112.77 ms)
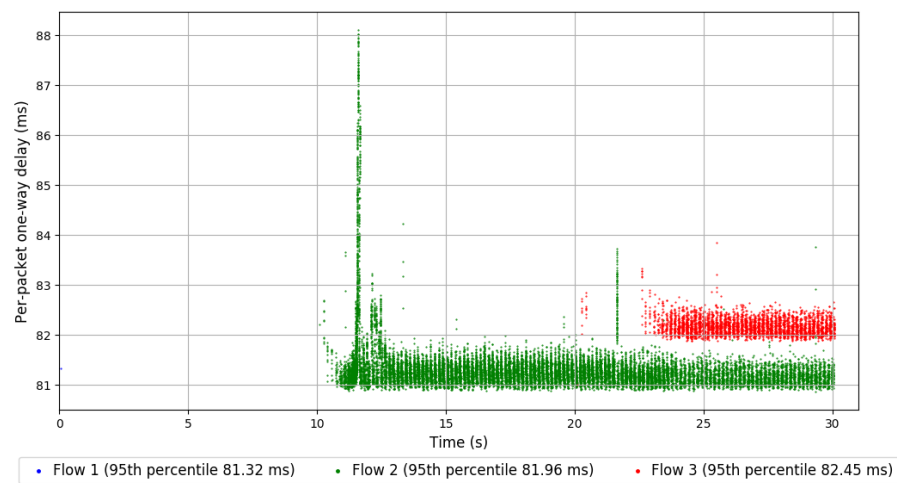
14

```
Run 1: Statistics of Copa

Start at: 2020-02-18 01:19:51
End at: 2020-02-18 01:20:21
Local clock offset: -0.163 ms
Remote clock offset: -8.96 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 82.185 ms
Loss rate: 71.28%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 80.636 ms
Loss rate: 98.33%
-- Flow 2:
Average throughput: 9.41 Mbit/s
95th percentile per-packet one-way delay: 82.271 ms
Loss rate: 70.74%
-- Flow 3:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 82.010 ms
Loss rate: 72.86%
```
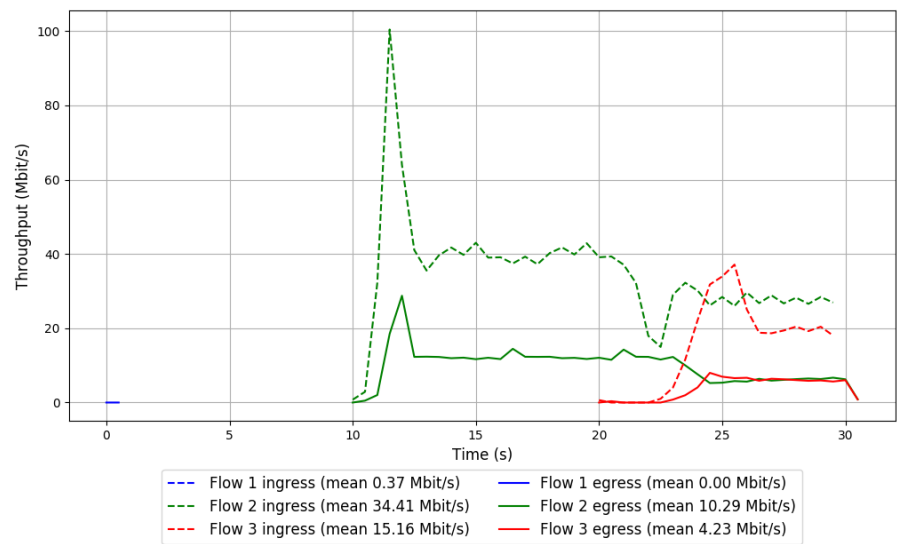
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 0.36 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 32.17 Mbit/s) --- Flow 2 egress (mean 9.41 Mbit/s)
Flow 3 ingress (mean 21.86 Mbit/s) --- Flow 3 egress (mean 5.93 Mbit/s)

Flow 1 (95th percentile 80.64 ms)   Flow 2 (95th percentile 82.27 ms)   Flow 3 (95th percentile 82.01 ms)

```
Run 2: Statistics of Copa

Start at: 2020-02-18 01:50:02
End at: 2020-02-18 01:50:32
Local clock offset: 0.785 ms
Remote clock offset: -8.525 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.22 Mbit/s
95th percentile per-packet one-way delay: 81.945 ms
Loss rate: 70.13%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.227 ms
Loss rate: 98.33%
-- Flow 2:
Average throughput: 10.85 Mbit/s
95th percentile per-packet one-way delay: 81.999 ms
Loss rate: 70.47%
-- Flow 3:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 80.707 ms
Loss rate: 67.39%
```
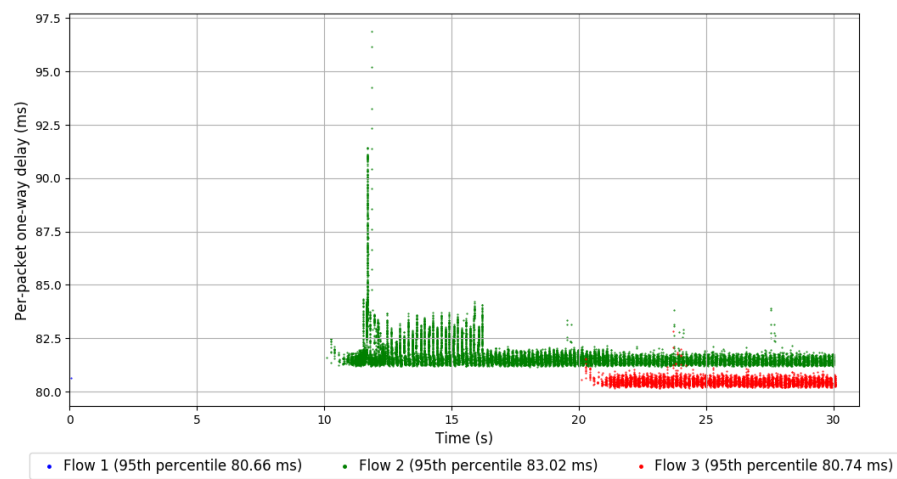
Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 0.36 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 36.76 Mbit/s)   Flow 2 egress (mean 10.85 Mbit/s)
Flow 3 ingress (mean 9.17 Mbit/s)   Flow 3 egress (mean 2.99 Mbit/s)

Flow 1 (95th percentile 81.23 ms)   Flow 2 (95th percentile 82.00 ms)   Flow 3 (95th percentile 80.71 ms)
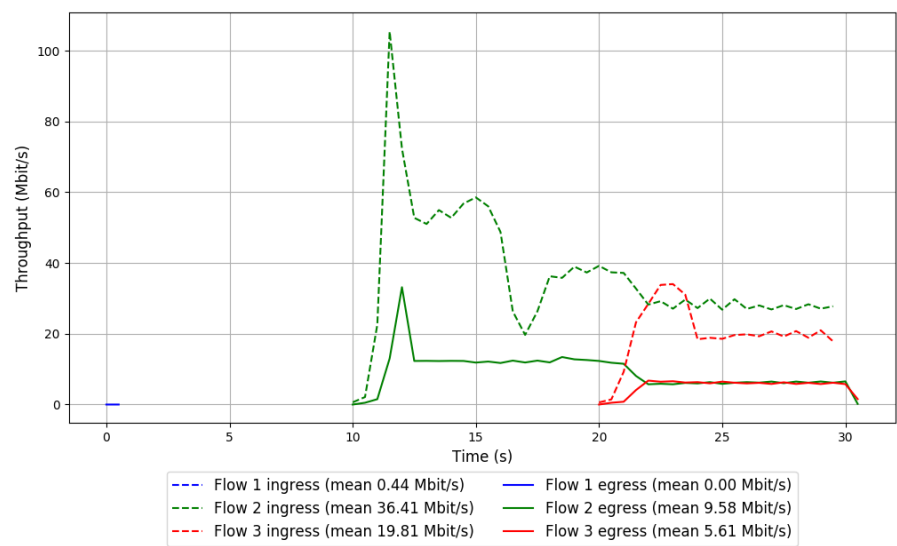
```
Run 3: Statistics of Copa

Start at: 2020-02-18 02:20:20
End at: 2020-02-18 02:20:50
Local clock offset: -0.95 ms
Remote clock offset: -7.974 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 82.366 ms
Loss rate: 70.47%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.324 ms
Loss rate: 98.33%
-- Flow 2:
Average throughput: 10.29 Mbit/s
95th percentile per-packet one-way delay: 81.962 ms
Loss rate: 70.10%
-- Flow 3:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 82.454 ms
Loss rate: 72.13%
```

Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 0.37 Mbit/s)
Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 34.41 Mbit/s)
Flow 2 egress (mean 10.29 Mbit/s)
Flow 3 ingress (mean 15.16 Mbit/s)
Flow 3 egress (mean 4.23 Mbit/s)

Flow 1 (95th percentile 81.32 ms)
Flow 2 (95th percentile 81.96 ms)
Flow 3 (95th percentile 82.45 ms)

20

```
Run 4: Statistics of Copa

Start at: 2020-02-18 02:50:27
End at: 2020-02-18 02:50:57
Local clock offset: -0.836 ms
Remote clock offset: -9.12 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 82.316 ms
Loss rate: 71.78%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 82.214 ms
Loss rate: 98.33%
-- Flow 2:
Average throughput: 10.42 Mbit/s
95th percentile per-packet one-way delay: 81.725 ms
Loss rate: 71.69%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 82.433 ms
Loss rate: 72.22%
```

Run 4: Report of Copa — Data Link
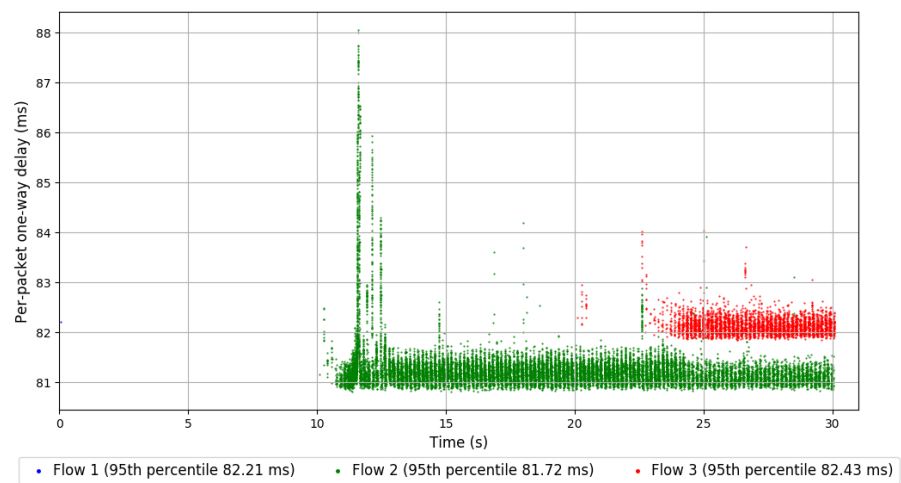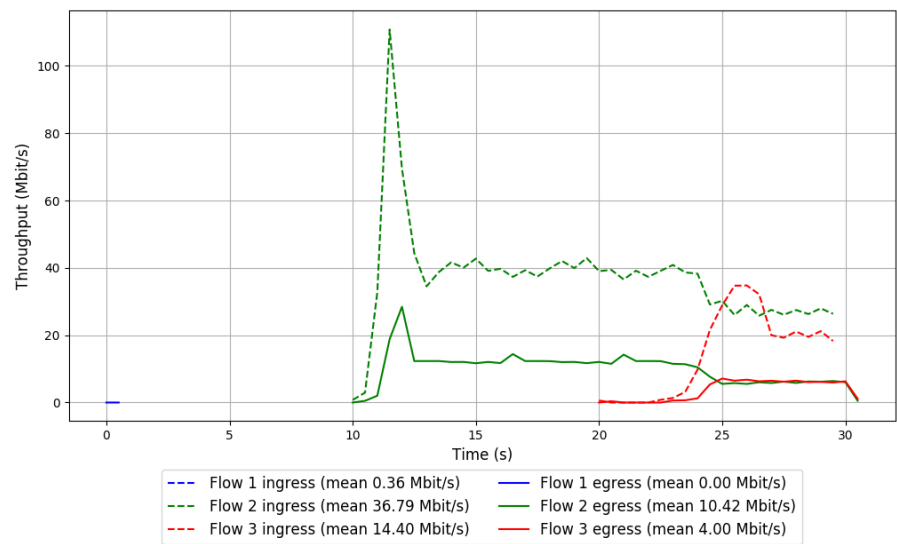
```
Run 5: Statistics of Copa

Start at: 2020-02-18 03:20:30
End at: 2020-02-18 03:21:00
Local clock offset: -0.135 ms
Remote clock offset: -8.374 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 82.813 ms
Loss rate: 73.26%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 80.655 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 83.016 ms
Loss rate: 73.69%
-- Flow 3:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 80.740 ms
Loss rate: 71.69%
```
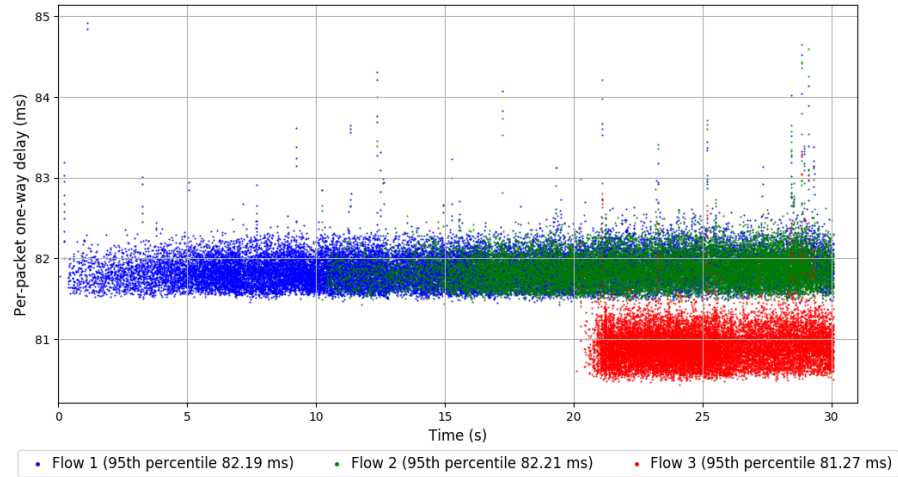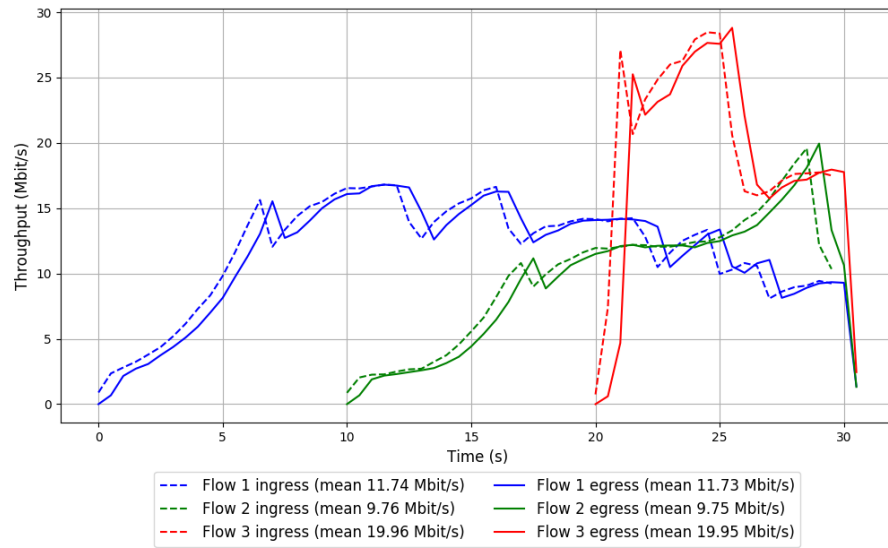
Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 0.44 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 36.41 Mbit/s) --- Flow 2 egress (mean 9.58 Mbit/s)
Flow 3 ingress (mean 19.81 Mbit/s) --- Flow 3 egress (mean 5.61 Mbit/s)

Flow 1 (95th percentile 80.66 ms) · Flow 2 (95th percentile 83.02 ms) · Flow 3 (95th percentile 80.74 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2020-02-18 01:23:27
End at: 2020-02-18 01:23:57
Local clock offset: -0.893 ms
Remote clock offset: -9.044 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 106.946 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 15.16 Mbit/s
95th percentile per-packet one-way delay: 97.014 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 8.19 Mbit/s
95th percentile per-packet one-way delay: 97.981 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 109.740 ms
Loss rate: 1.07%
```

Run 1: Report of TCP Cubic — Data Link
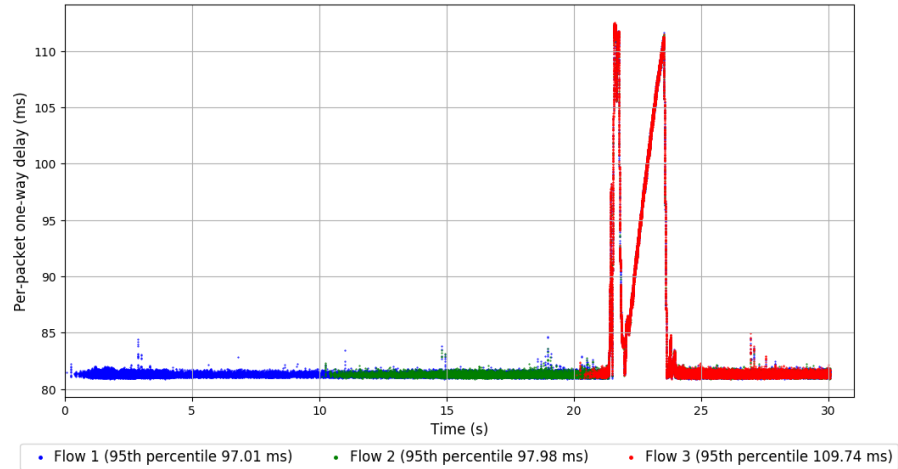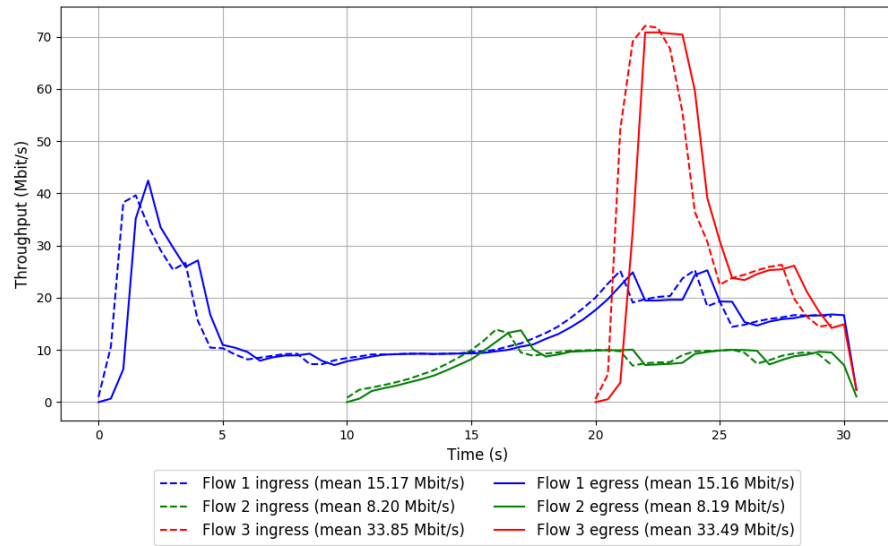
```
Run 2: Statistics of TCP Cubic

Start at: 2020-02-18 01:53:39
End at: 2020-02-18 01:54:09
Local clock offset: 0.835 ms
Remote clock offset: -8.437 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 100.992 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 81.980 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 14.51 Mbit/s
95th percentile per-packet one-way delay: 82.876 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 37.85 Mbit/s
95th percentile per-packet one-way delay: 110.925 ms
Loss rate: 3.62%
```

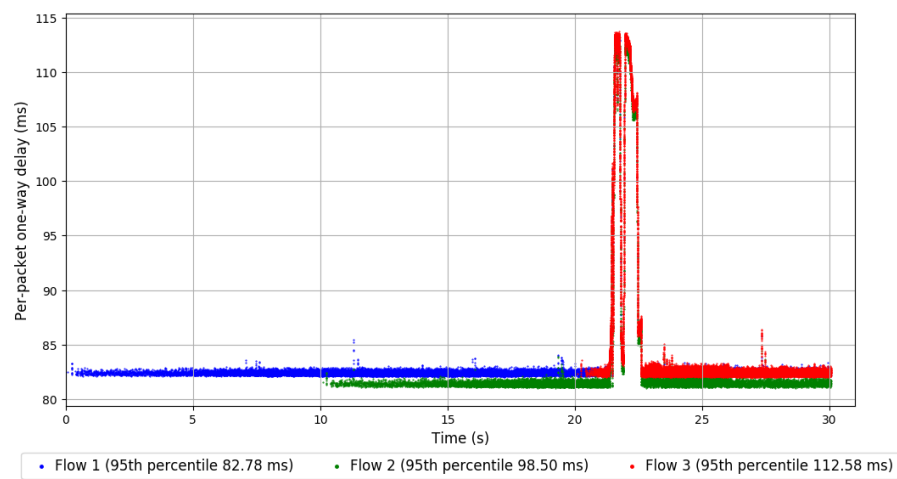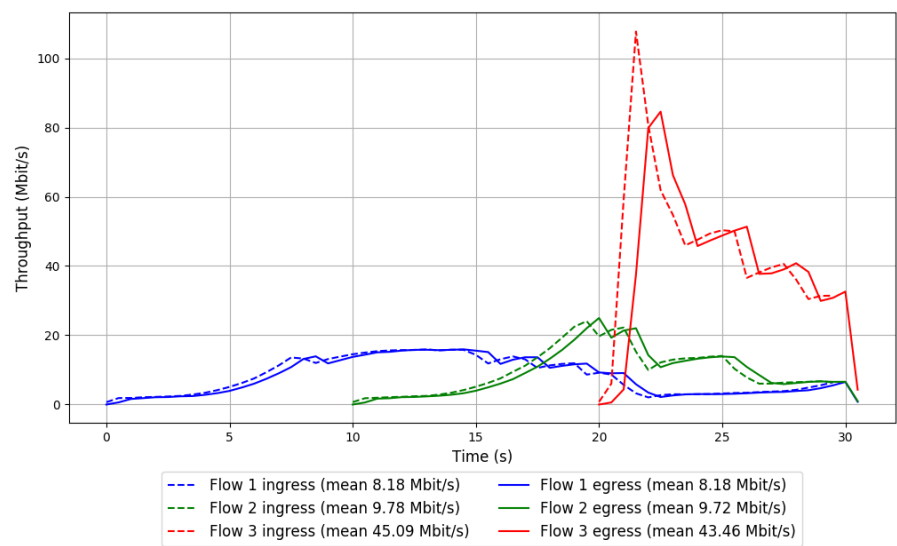Run 2: Report of TCP Cubic — Data Link
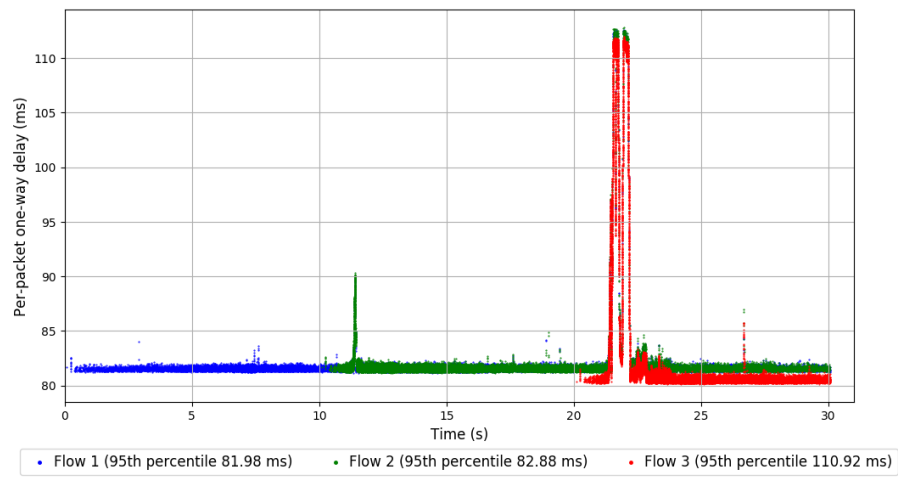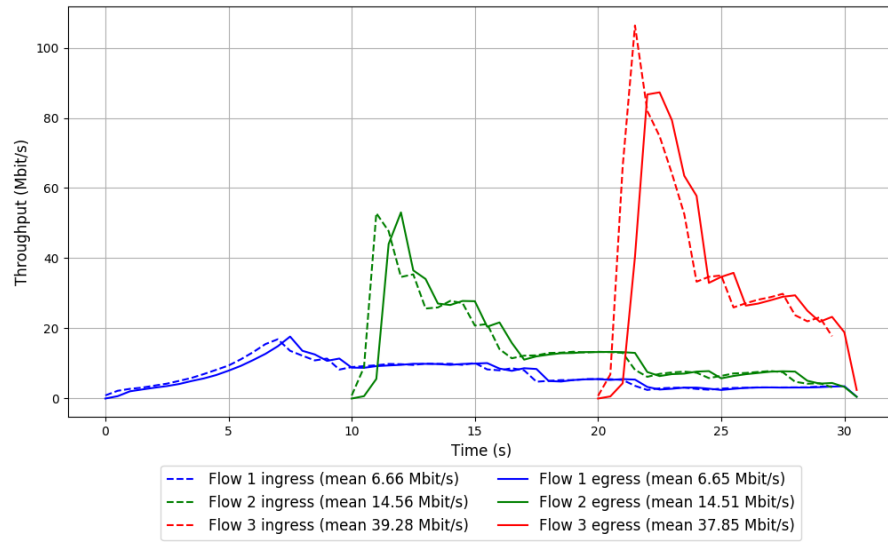
```
Run 3: Statistics of TCP Cubic

Start at: 2020-02-18 02:23:57
End at: 2020-02-18 02:24:27
Local clock offset: -0.276 ms
Remote clock offset: -7.746 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 82.162 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 82.190 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 82.211 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 81.269 ms
Loss rate: 0.03%
```

Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 11.74 Mbit/s)   Flow 1 egress (mean 11.73 Mbit/s)
Flow 2 ingress (mean 9.76 Mbit/s)   Flow 2 egress (mean 9.75 Mbit/s)
Flow 3 ingress (mean 19.96 Mbit/s)   Flow 3 egress (mean 19.95 Mbit/s)

Flow 1 (95th percentile 82.19 ms)   Flow 2 (95th percentile 82.21 ms)   Flow 3 (95th percentile 81.27 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2020-02-18 02:54:04
End at: 2020-02-18 02:54:34
Local clock offset: -0.185 ms
Remote clock offset: -8.861 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.62 Mbit/s
95th percentile per-packet one-way delay: 82.729 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 82.848 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 81.784 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 82.985 ms
Loss rate: 0.02%
```

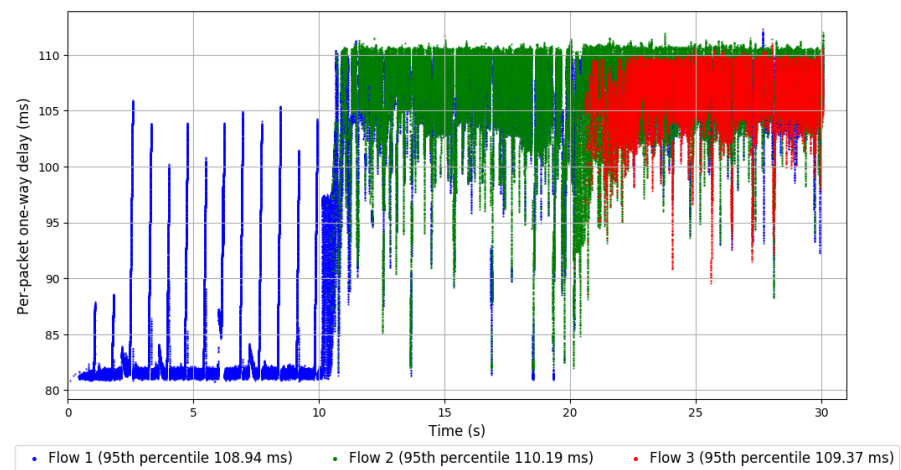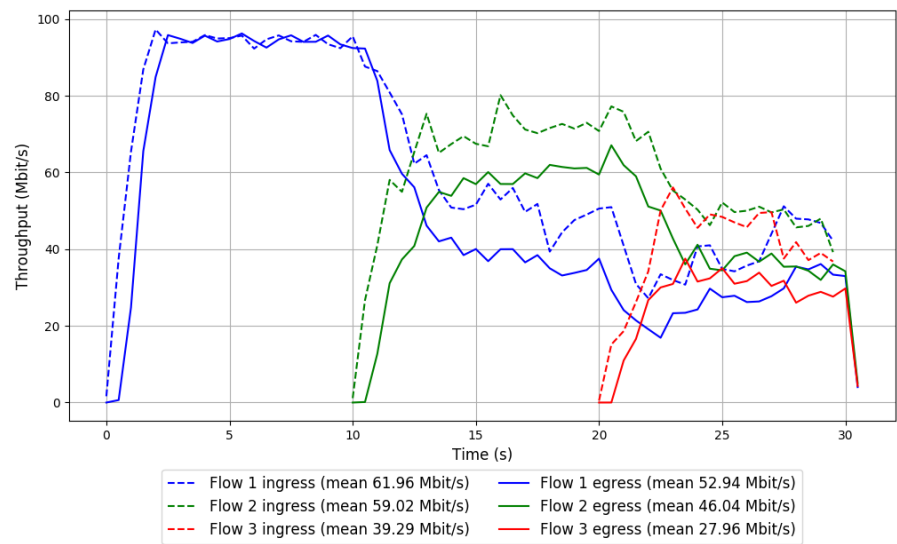Run 4: Report of TCP Cubic — Data Link
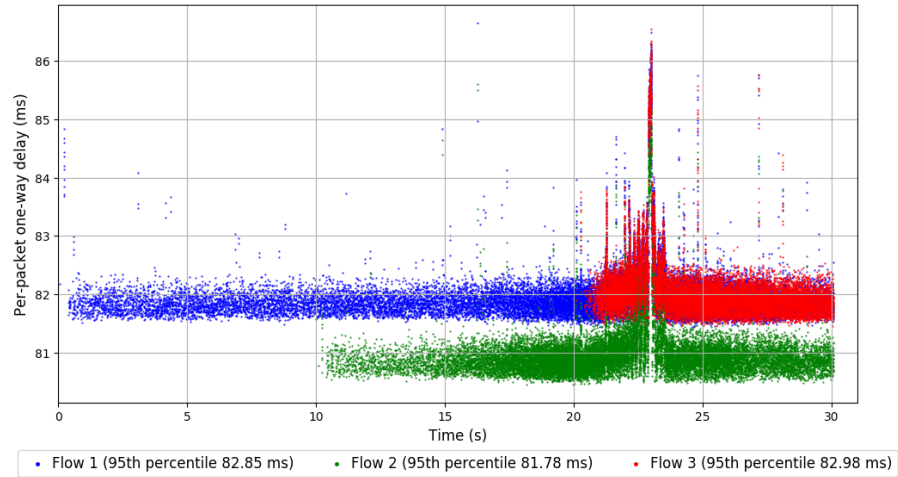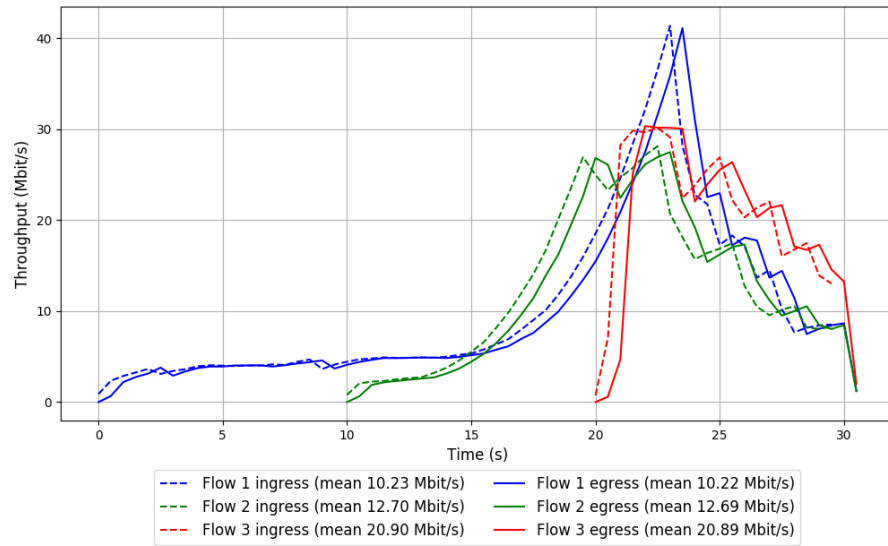
```
Run 5: Statistics of TCP Cubic

Start at: 2020-02-18 03:24:07
End at: 2020-02-18 03:24:37
Local clock offset: -0.883 ms
Remote clock offset: -8.227 ms


# Below is generated by plot.py at 2020-02-18 03:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 109.678 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 82.777 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 9.72 Mbit/s
95th percentile per-packet one-way delay: 98.504 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 112.579 ms
Loss rate: 3.65%
```

Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 8.18 Mbit/s) — — — Flow 1 egress (mean 8.18 Mbit/s)
Flow 2 ingress (mean 9.78 Mbit/s) — — — Flow 2 egress (mean 9.72 Mbit/s)
Flow 3 ingress (mean 45.09 Mbit/s) — — — Flow 3 egress (mean 43.46 Mbit/s)

Flow 1 (95th percentile 82.78 ms) Flow 2 (95th percentile 98.50 ms) Flow 3 (95th percentile 112.58 ms)
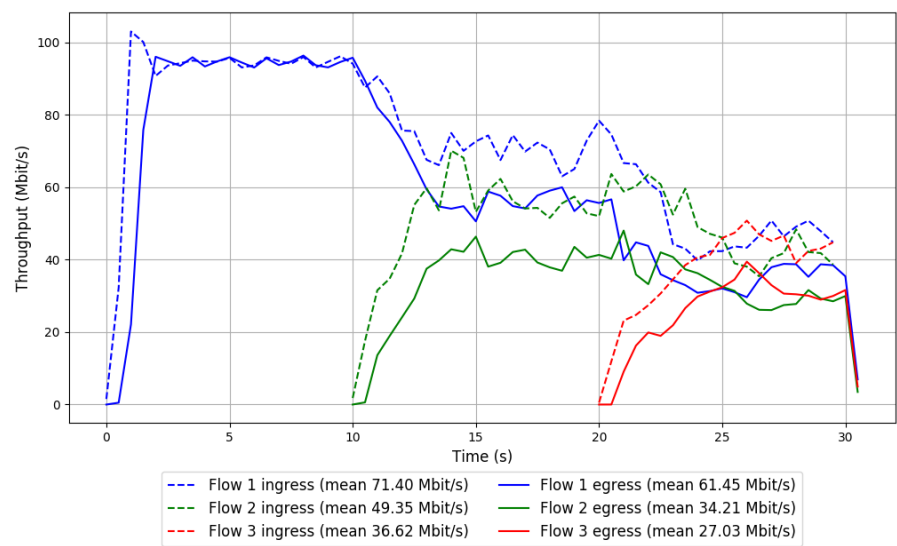
```
Run 1: Statistics of FillP

Start at: 2020-02-18 01:36:00
End at: 2020-02-18 01:36:30
Local clock offset: 0.324 ms
Remote clock offset: -8.535 ms


# Below is generated by plot.py at 2020-02-18 03:52:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 108.702 ms
Loss rate: 18.97%
-- Flow 1:
Average throughput: 61.21 Mbit/s
95th percentile per-packet one-way delay: 108.593 ms
Loss rate: 13.24%
-- Flow 2:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 108.894 ms
Loss rate: 28.86%
-- Flow 3:
Average throughput: 27.82 Mbit/s
95th percentile per-packet one-way delay: 108.859 ms
Loss rate: 25.79%
```

# Run 1: Report of FillP — Data Link
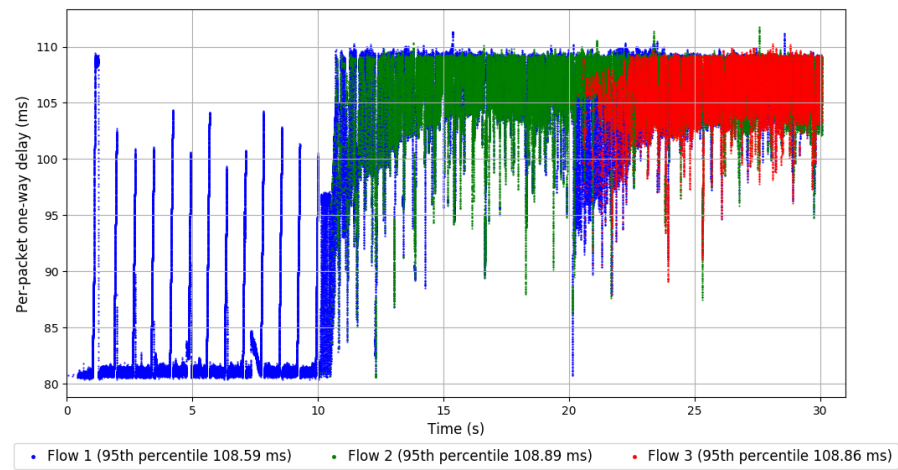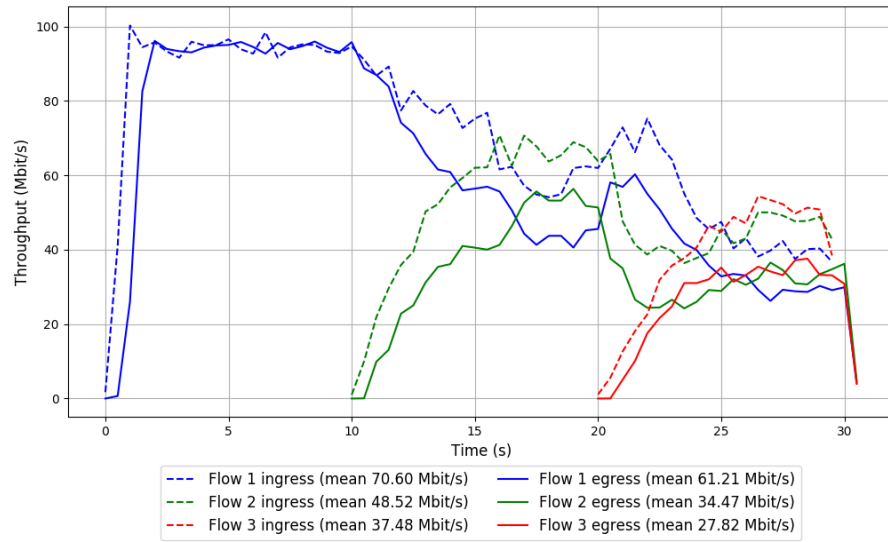
```
Run 2: Statistics of FillP

Start at: 2020-02-18 02:06:07
End at: 2020-02-18 02:06:37
Local clock offset: -0.57 ms
Remote clock offset: -8.178 ms


# Below is generated by plot.py at 2020-02-18 03:52:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.85 Mbit/s
95th percentile per-packet one-way delay: 109.653 ms
Loss rate: 18.66%
-- Flow 1:
Average throughput: 52.94 Mbit/s
95th percentile per-packet one-way delay: 108.941 ms
Loss rate: 14.49%
-- Flow 2:
Average throughput: 46.04 Mbit/s
95th percentile per-packet one-way delay: 110.189 ms
Loss rate: 21.90%
-- Flow 3:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 109.370 ms
Loss rate: 28.73%
```

Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 61.96 Mbit/s) —— Flow 1 egress (mean 52.94 Mbit/s)
Flow 2 ingress (mean 59.02 Mbit/s) —— Flow 2 egress (mean 46.04 Mbit/s)
Flow 3 ingress (mean 39.29 Mbit/s) —— Flow 3 egress (mean 27.96 Mbit/s)

Flow 1 (95th percentile 108.94 ms)   Flow 2 (95th percentile 110.19 ms)   Flow 3 (95th percentile 109.37 ms)
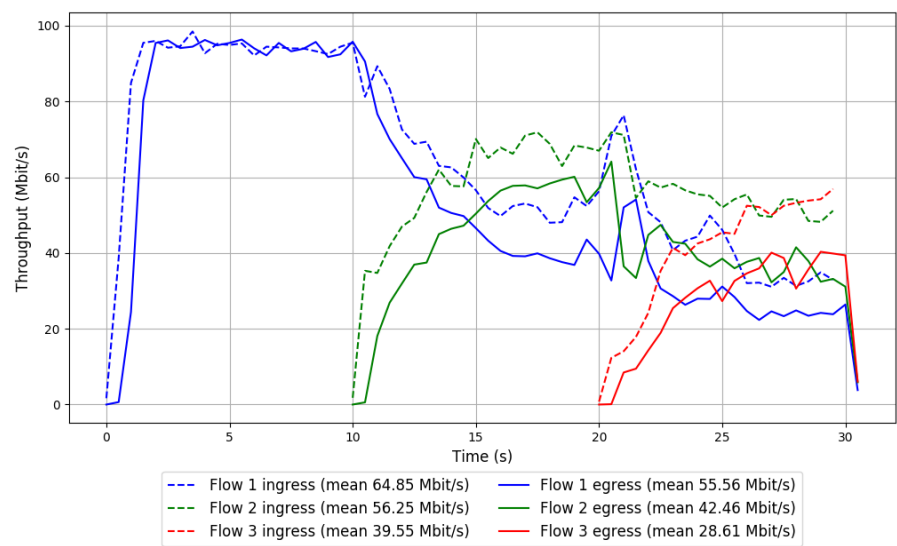
```
Run 3: Statistics of FillP

Start at: 2020-02-18 02:36:28
End at: 2020-02-18 02:36:58
Local clock offset: -0.892 ms
Remote clock offset: -8.861 ms


# Below is generated by plot.py at 2020-02-18 03:53:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 109.917 ms
Loss rate: 19.86%
-- Flow 1:
Average throughput: 61.45 Mbit/s
95th percentile per-packet one-way delay: 109.985 ms
Loss rate: 13.86%
-- Flow 2:
Average throughput: 34.21 Mbit/s
95th percentile per-packet one-way delay: 109.371 ms
Loss rate: 30.60%
-- Flow 3:
Average throughput: 27.03 Mbit/s
95th percentile per-packet one-way delay: 110.239 ms
Loss rate: 26.15%
```
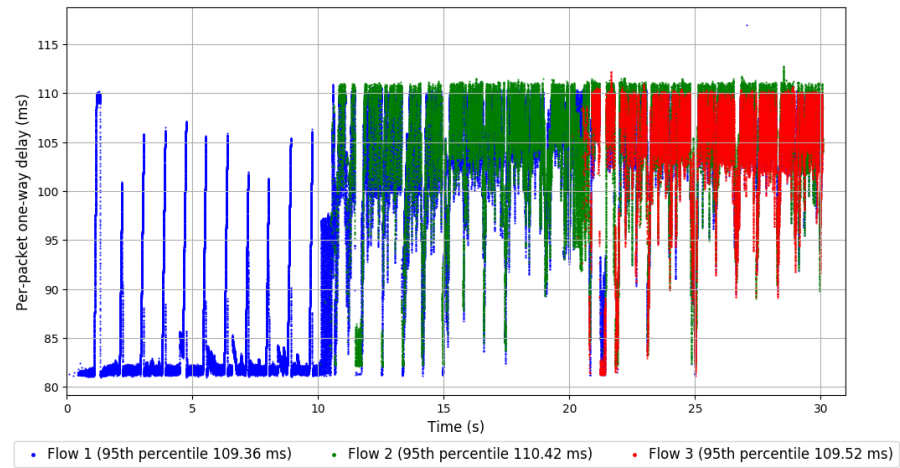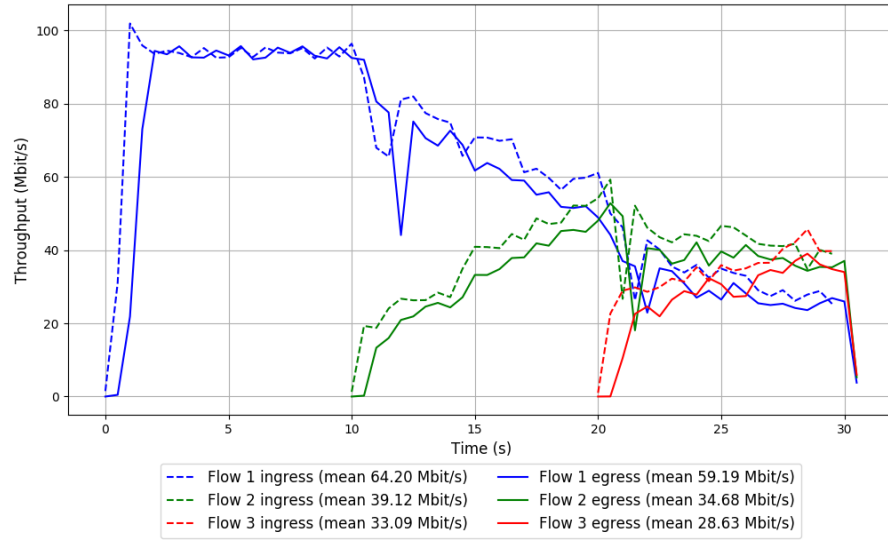
Run 3: Report of FillP — Data Link
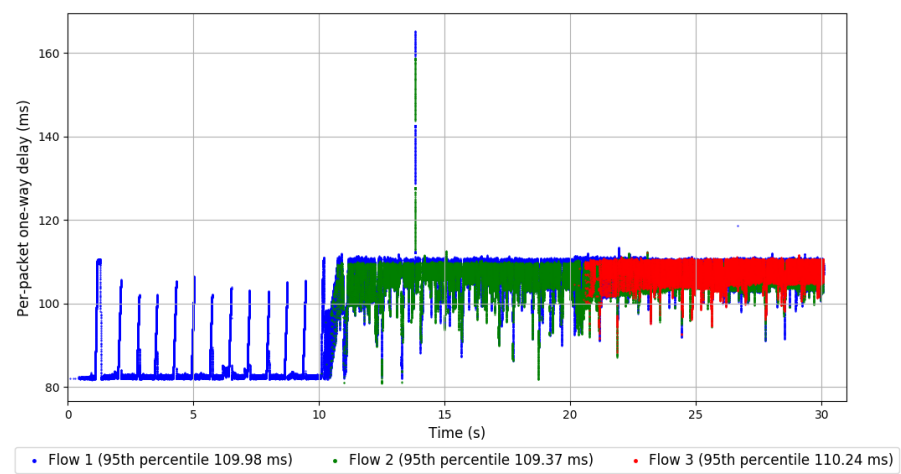
```
Run 4: Statistics of FillP

Start at: 2020-02-18 03:06:32
End at: 2020-02-18 03:07:02
Local clock offset: -0.854 ms
Remote clock offset: -9.122 ms


# Below is generated by plot.py at 2020-02-18 03:53:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 109.297 ms
Loss rate: 19.19%
-- Flow 1:
Average throughput: 54.23 Mbit/s
95th percentile per-packet one-way delay: 108.560 ms
Loss rate: 15.31%
-- Flow 2:
Average throughput: 46.17 Mbit/s
95th percentile per-packet one-way delay: 109.927 ms
Loss rate: 22.71%
-- Flow 3:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 108.951 ms
Loss rate: 28.49%
```

Run 4: Report of FillP — Data Link
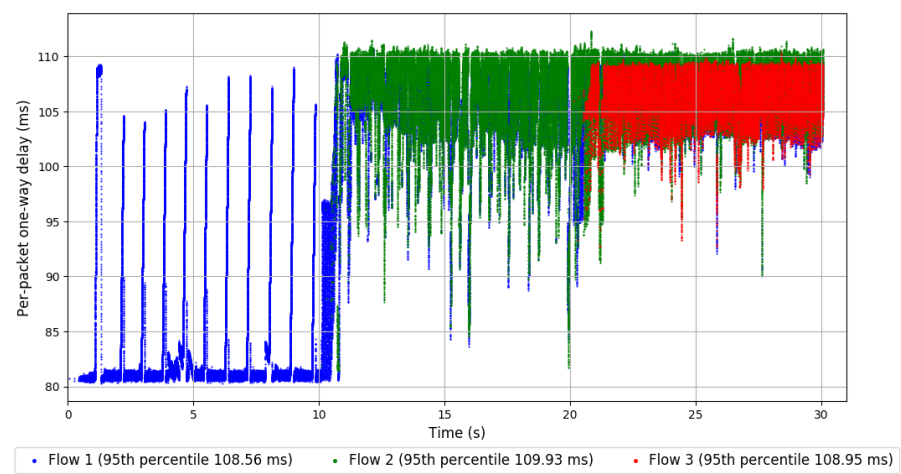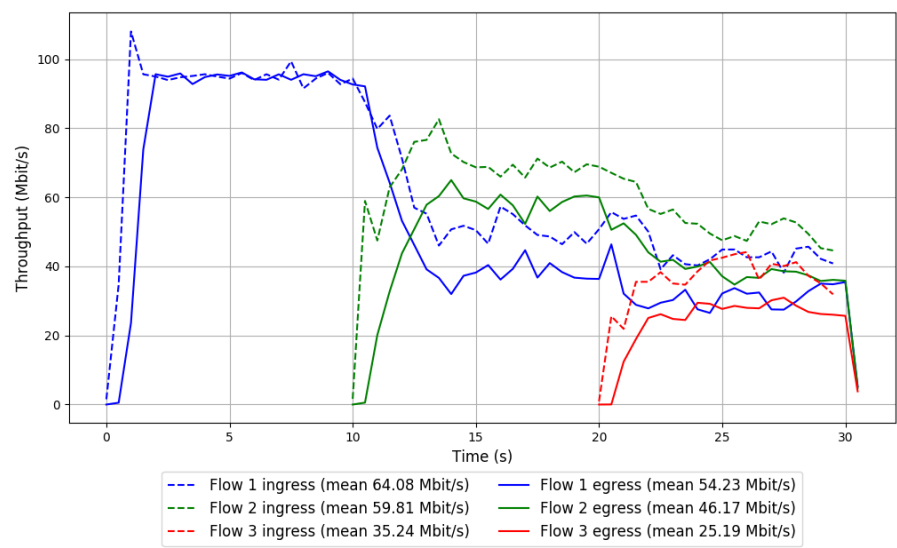
```
Run 5: Statistics of FillP

Start at: 2020-02-18 03:36:35
End at: 2020-02-18 03:37:05
Local clock offset: -0.861 ms
Remote clock offset: -8.428 ms


# Below is generated by plot.py at 2020-02-18 03:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.31 Mbit/s
95th percentile per-packet one-way delay: 109.552 ms
Loss rate: 19.08%
-- Flow 1:
Average throughput: 55.56 Mbit/s
95th percentile per-packet one-way delay: 108.830 ms
Loss rate: 14.26%
-- Flow 2:
Average throughput: 42.46 Mbit/s
95th percentile per-packet one-way delay: 110.207 ms
Loss rate: 24.40%
-- Flow 3:
Average throughput: 28.61 Mbit/s
95th percentile per-packet one-way delay: 109.300 ms
Loss rate: 27.66%
```

Run 5: Report of FillP — Data Link
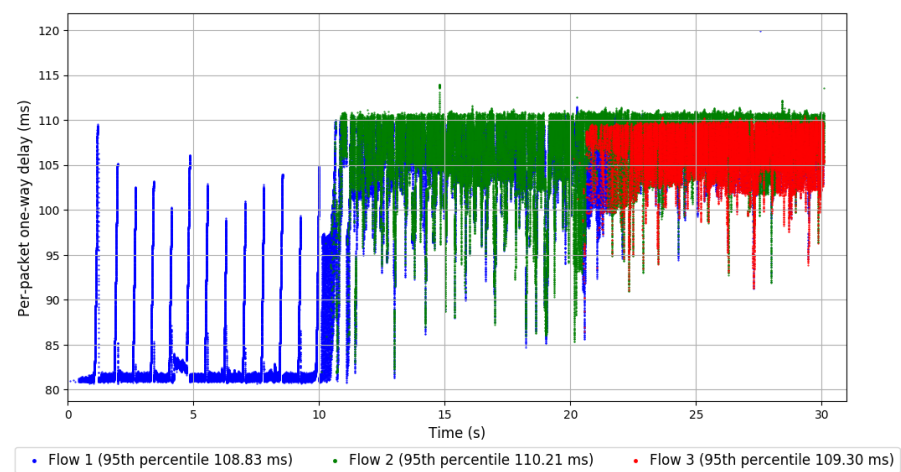
```
Run 1: Statistics of FillP-Sheep

Start at: 2020-02-18 01:31:02
End at: 2020-02-18 01:31:32
Local clock offset: -0.624 ms
Remote clock offset: -8.676 ms


# Below is generated by plot.py at 2020-02-18 03:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.73 Mbit/s
95th percentile per-packet one-way delay: 109.639 ms
Loss rate: 9.26%
-- Flow 1:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 109.359 ms
Loss rate: 7.74%
-- Flow 2:
Average throughput: 34.68 Mbit/s
95th percentile per-packet one-way delay: 110.422 ms
Loss rate: 11.24%
-- Flow 3:
Average throughput: 28.63 Mbit/s
95th percentile per-packet one-way delay: 109.522 ms
Loss rate: 13.47%
```

Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 64.20 Mbit/s)   Flow 1 egress (mean 59.19 Mbit/s)
Flow 2 ingress (mean 39.12 Mbit/s)   Flow 2 egress (mean 34.68 Mbit/s)
Flow 3 ingress (mean 33.09 Mbit/s)   Flow 3 egress (mean 28.63 Mbit/s)

Flow 1 (95th percentile 109.36 ms)   Flow 2 (95th percentile 110.42 ms)   Flow 3 (95th percentile 109.52 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2020-02-18 02:01:11
End at: 2020-02-18 02:01:41
Local clock offset: -0.184 ms
Remote clock offset: -8.291 ms


# Below is generated by plot.py at 2020-02-18 03:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.45 Mbit/s
95th percentile per-packet one-way delay: 109.680 ms
Loss rate: 7.87%
-- Flow 1:
Average throughput: 58.61 Mbit/s
95th percentile per-packet one-way delay: 109.932 ms
Loss rate: 5.33%
-- Flow 2:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 109.145 ms
Loss rate: 13.84%
-- Flow 3:
Average throughput: 25.80 Mbit/s
95th percentile per-packet one-way delay: 109.107 ms
Loss rate: 11.75%
```

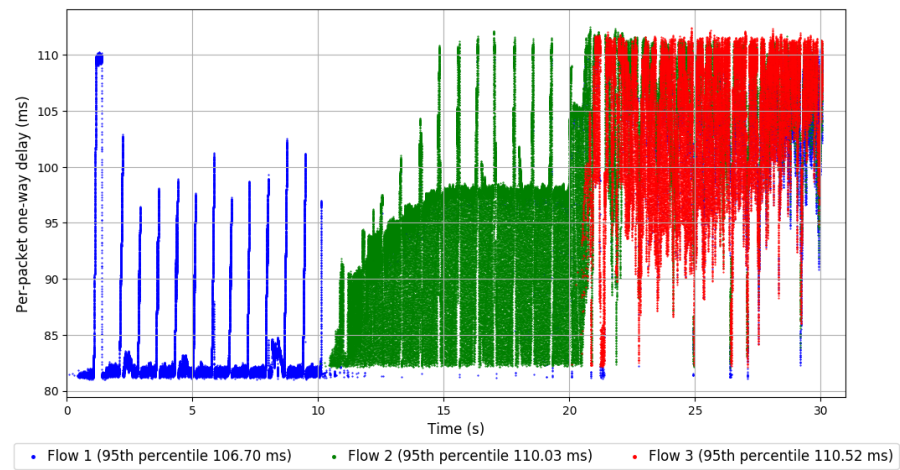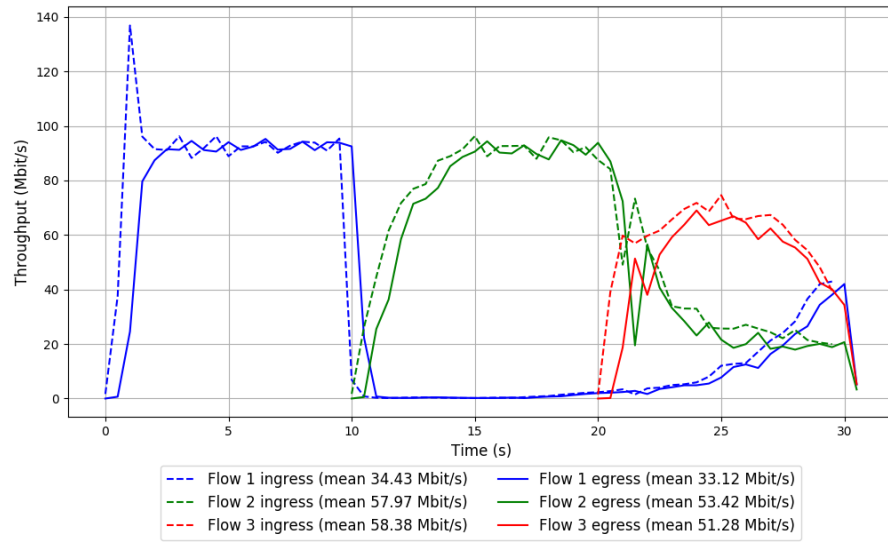Run 2: Report of FillP-Sheep — Data Link
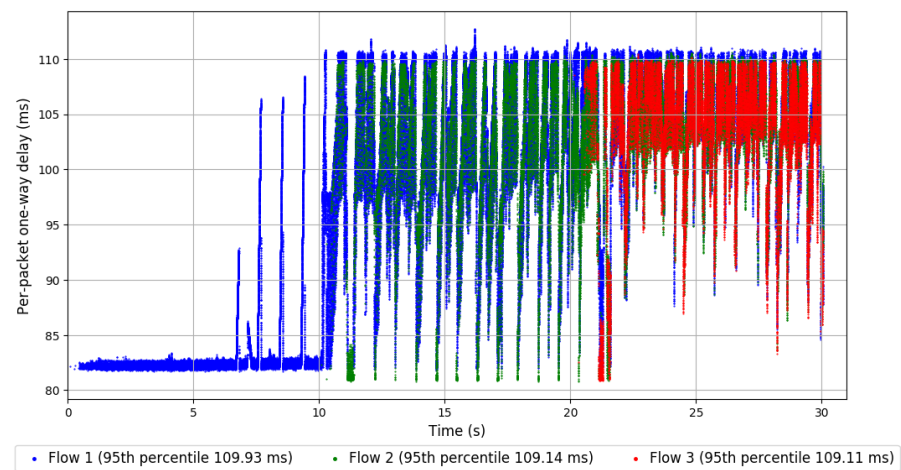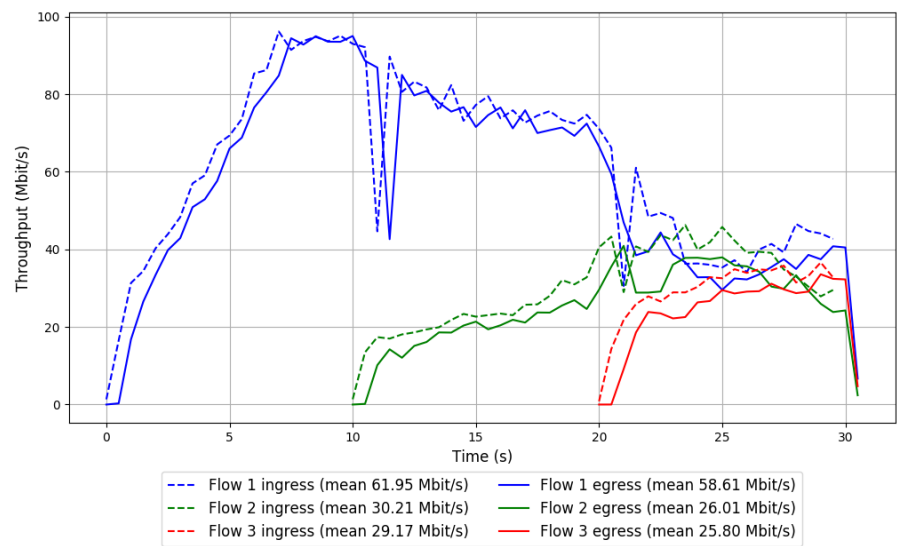
```
Run 3: Statistics of FillP-Sheep

Start at: 2020-02-18 02:31:31
End at: 2020-02-18 02:32:01
Local clock offset: -0.927 ms
Remote clock offset: -8.534 ms


# Below is generated by plot.py at 2020-02-18 03:53:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.22 Mbit/s
95th percentile per-packet one-way delay: 110.094 ms
Loss rate: 7.29%
-- Flow 1:
Average throughput: 62.51 Mbit/s
95th percentile per-packet one-way delay: 110.098 ms
Loss rate: 5.32%
-- Flow 2:
Average throughput: 30.96 Mbit/s
95th percentile per-packet one-way delay: 110.298 ms
Loss rate: 11.16%
-- Flow 3:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 109.352 ms
Loss rate: 11.66%
```

Run 3: Report of FillP-Sheep — Data Link
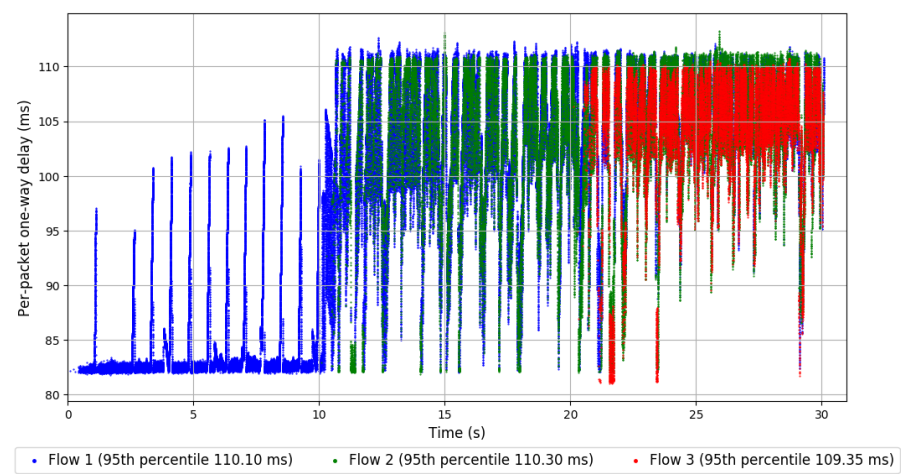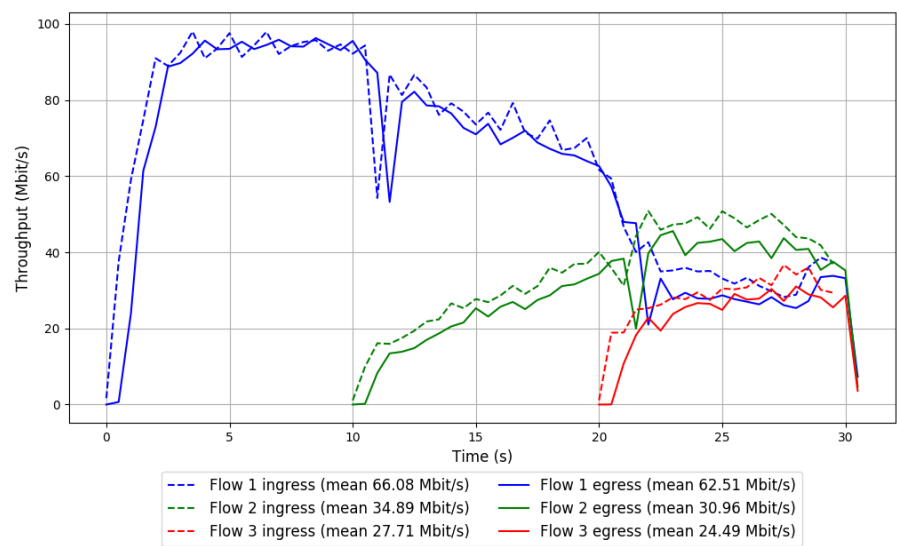
```
Run 4: Statistics of FillP-Sheep

Start at: 2020-02-18 03:01:36
End at: 2020-02-18 03:02:06
Local clock offset: -0.855 ms
Remote clock offset: -8.803 ms


# Below is generated by plot.py at 2020-02-18 03:54:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 109.201 ms
Loss rate: 9.84%
-- Flow 1:
Average throughput: 62.99 Mbit/s
95th percentile per-packet one-way delay: 109.138 ms
Loss rate: 7.43%
-- Flow 2:
Average throughput: 29.78 Mbit/s
95th percentile per-packet one-way delay: 109.308 ms
Loss rate: 14.28%
-- Flow 3:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 109.405 ms
Loss rate: 15.22%
```

Run 4: Report of FillP-Sheep — Data Link
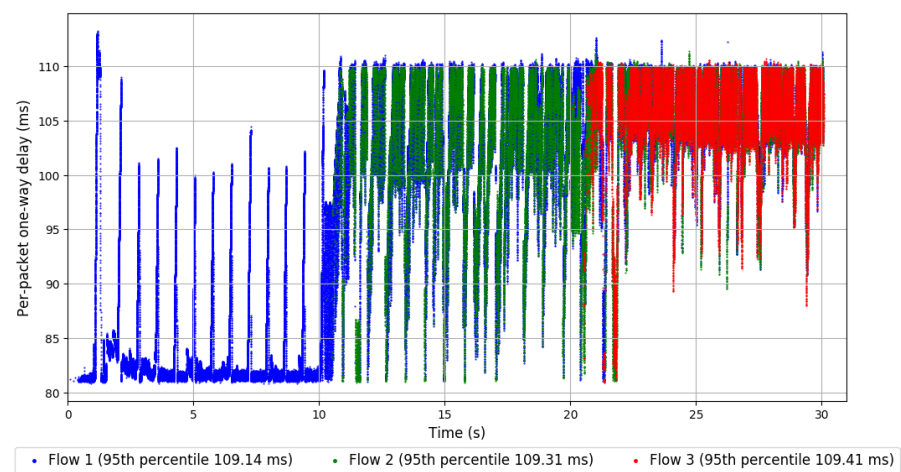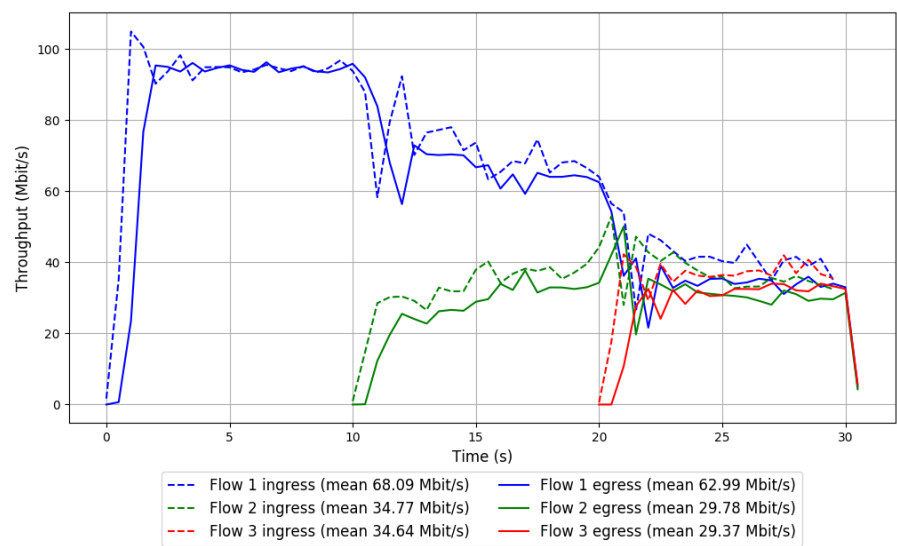
```
Run 5: Statistics of FillP-Sheep

Start at: 2020-02-18 03:31:38
End at: 2020-02-18 03:32:08
Local clock offset: -0.872 ms
Remote clock offset: -8.065 ms


# Below is generated by plot.py at 2020-02-18 03:54:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 109.874 ms
Loss rate: 7.12%
-- Flow 1:
Average throughput: 33.12 Mbit/s
95th percentile per-packet one-way delay: 106.697 ms
Loss rate: 3.70%
-- Flow 2:
Average throughput: 53.42 Mbit/s
95th percentile per-packet one-way delay: 110.029 ms
Loss rate: 7.76%
-- Flow 3:
Average throughput: 51.28 Mbit/s
95th percentile per-packet one-way delay: 110.519 ms
Loss rate: 11.95%
```

Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 34.43 Mbit/s) --- Flow 1 egress (mean 33.12 Mbit/s)
Flow 2 ingress (mean 57.97 Mbit/s) --- Flow 2 egress (mean 53.42 Mbit/s)
Flow 3 ingress (mean 58.38 Mbit/s) --- Flow 3 egress (mean 51.28 Mbit/s)

Flow 1 (95th percentile 106.70 ms)   Flow 2 (95th percentile 110.03 ms)   Flow 3 (95th percentile 110.52 ms)

54

```
Run 1: Statistics of Indigo

Start at: 2020-02-18 01:46:13
End at: 2020-02-18 01:46:43
Local clock offset: -0.018 ms
Remote clock offset: -8.508 ms


# Below is generated by plot.py at 2020-02-18 03:54:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.85 Mbit/s
95th percentile per-packet one-way delay: 112.339 ms
Loss rate: 9.05%
-- Flow 1:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 111.924 ms
Loss rate: 4.52%
-- Flow 2:
Average throughput: 33.14 Mbit/s
95th percentile per-packet one-way delay: 112.121 ms
Loss rate: 12.17%
-- Flow 3:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 113.204 ms
Loss rate: 24.16%
```
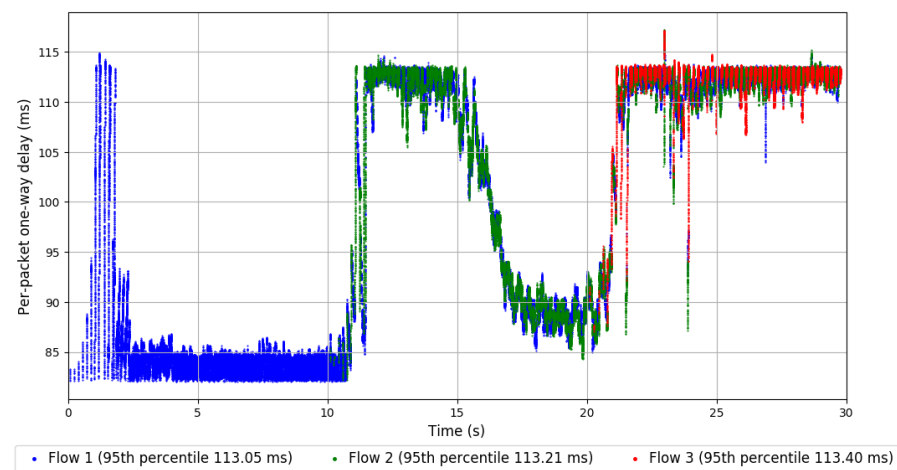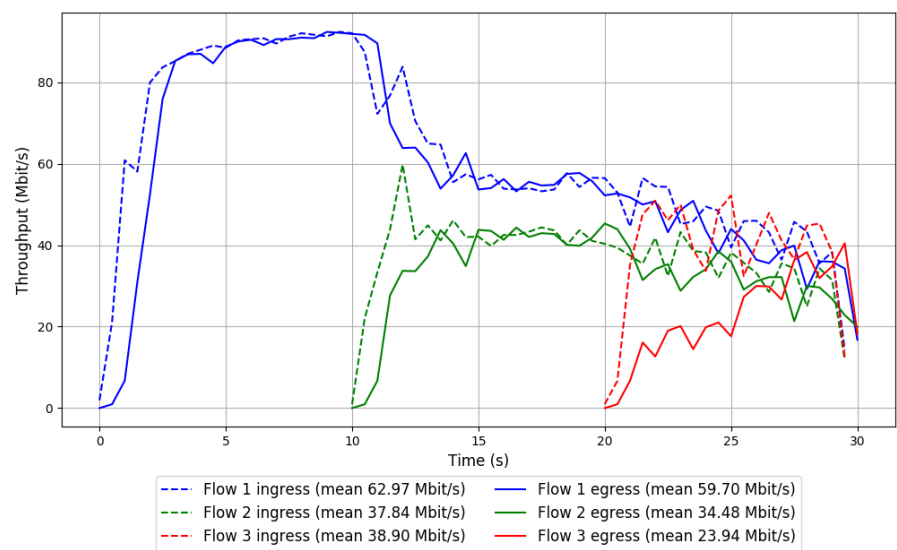
Run 1: Report of Indigo — Data Link
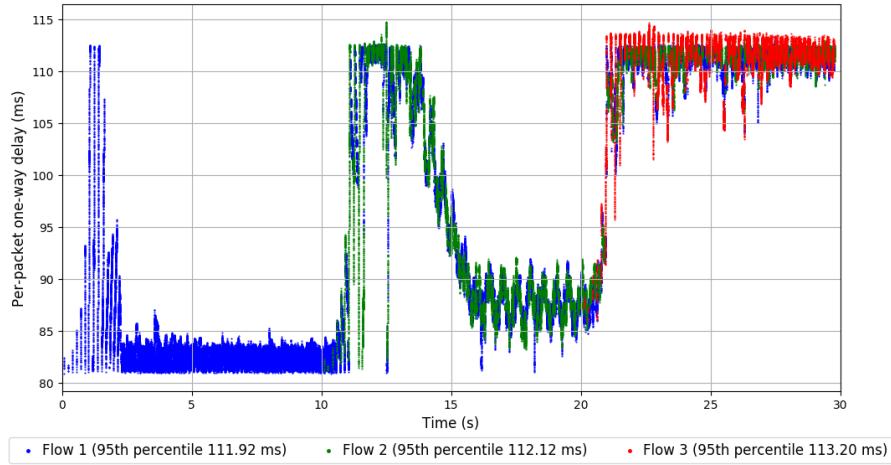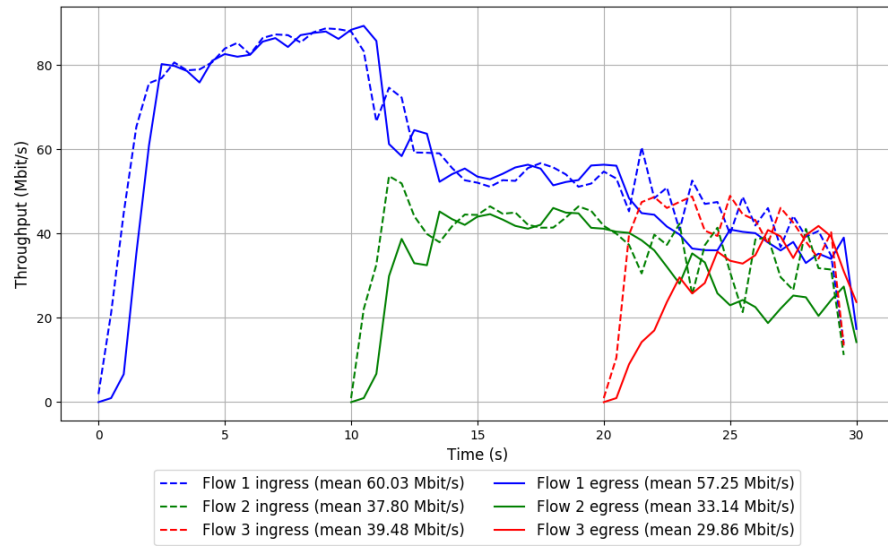
```
Run 2: Statistics of Indigo

Start at: 2020-02-18 02:16:26
End at: 2020-02-18 02:16:56
Local clock offset: -0.101 ms
Remote clock offset: -8.035 ms


# Below is generated by plot.py at 2020-02-18 03:54:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 111.993 ms
Loss rate: 6.20%
-- Flow 1:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 111.122 ms
Loss rate: 5.64%
-- Flow 2:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 112.155 ms
Loss rate: 6.95%
-- Flow 3:
Average throughput: 21.83 Mbit/s
95th percentile per-packet one-way delay: 112.276 ms
Loss rate: 8.14%
```

Run 2: Report of Indigo — Data Link

Flow 1 ingress (mean 61.72 Mbit/s)   Flow 1 egress (mean 58.19 Mbit/s)
Flow 2 ingress (mean 40.04 Mbit/s)   Flow 2 egress (mean 37.21 Mbit/s)
Flow 3 ingress (mean 23.82 Mbit/s)   Flow 3 egress (mean 21.83 Mbit/s)

Flow 1 (95th percentile 111.12 ms)   Flow 2 (95th percentile 112.16 ms)   Flow 3 (95th percentile 112.28 ms)

58
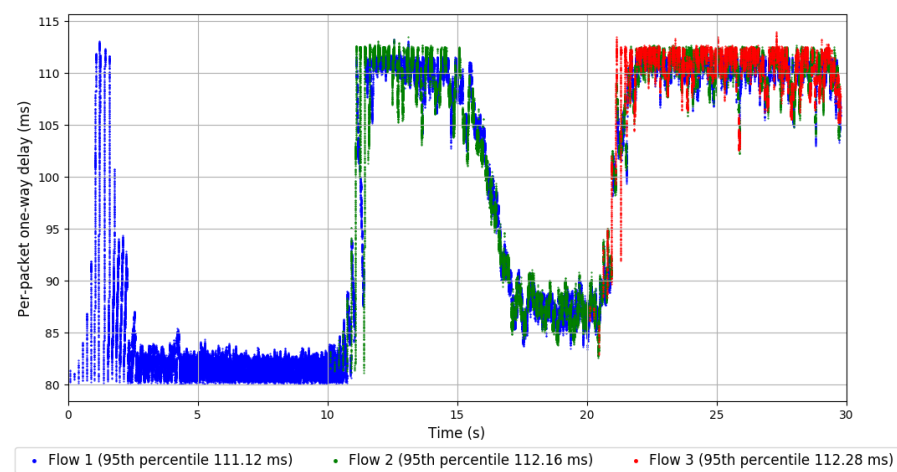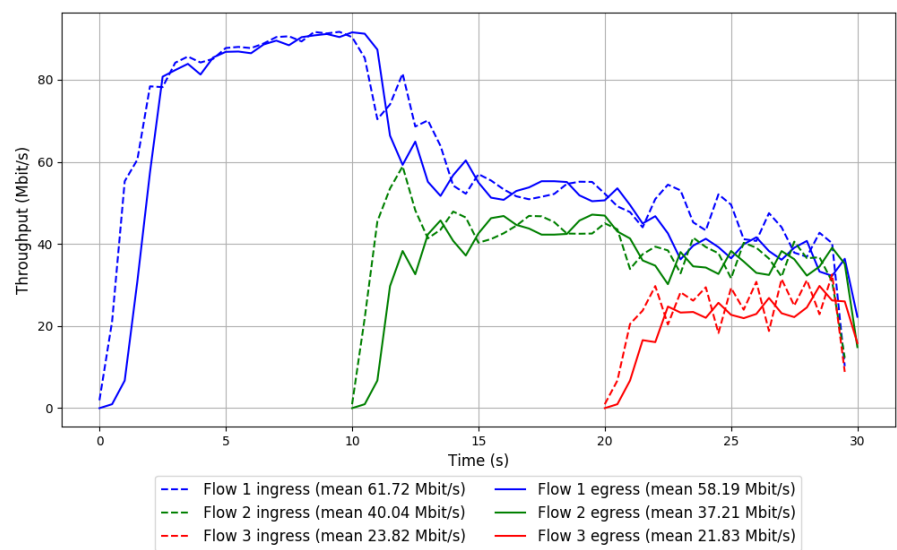
```
Run 3: Statistics of Indigo

Start at: 2020-02-18 02:46:37
End at: 2020-02-18 02:47:07
Local clock offset: -0.19 ms
Remote clock offset: -9.004 ms


# Below is generated by plot.py at 2020-02-18 03:54:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 112.593 ms
Loss rate: 34.92%
-- Flow 1:
Average throughput: 55.38 Mbit/s
95th percentile per-packet one-way delay: 112.420 ms
Loss rate: 12.41%
-- Flow 2:
Average throughput: 32.85 Mbit/s
95th percentile per-packet one-way delay: 112.607 ms
Loss rate: 36.30%
-- Flow 3:
Average throughput: 38.74 Mbit/s
95th percentile per-packet one-way delay: 112.795 ms
Loss rate: 68.96%
```

Run 3: Report of Indigo — Data Link
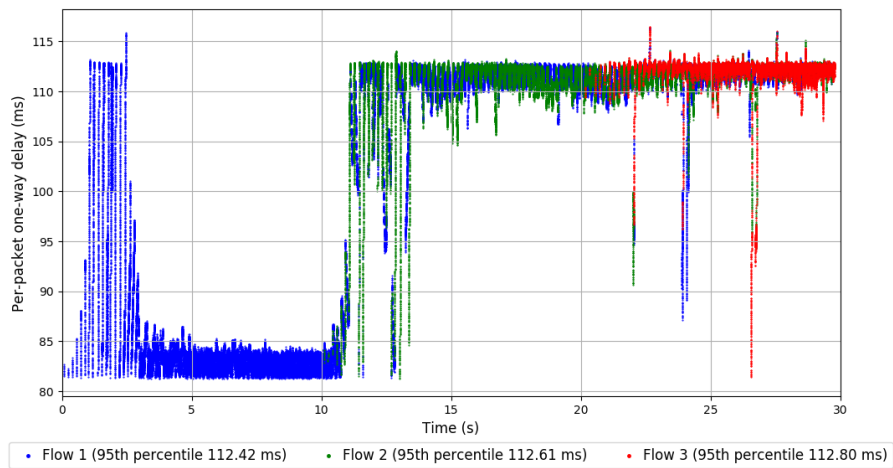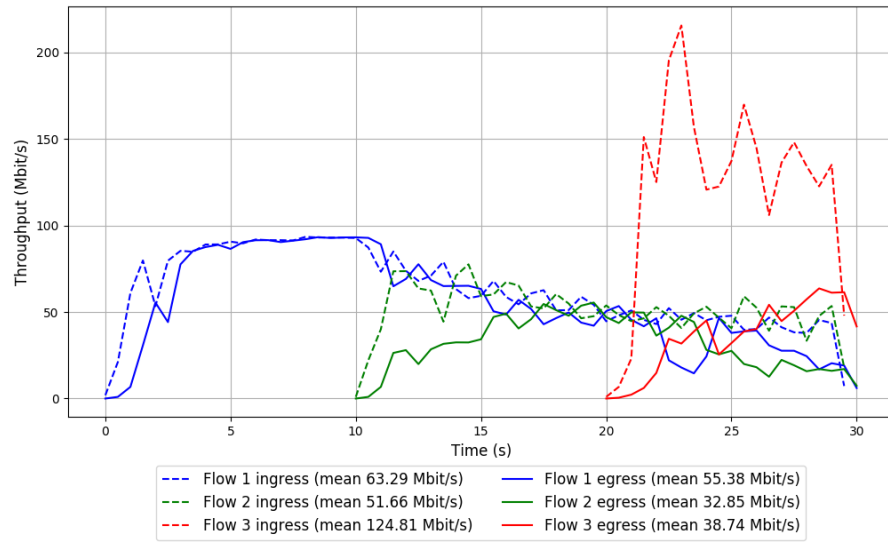
```
Run 4: Statistics of Indigo

Start at: 2020-02-18 03:16:41
End at: 2020-02-18 03:17:11
Local clock offset: -0.861 ms
Remote clock offset: -8.288 ms


# Below is generated by plot.py at 2020-02-18 03:54:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 113.195 ms
Loss rate: 10.18%
-- Flow 1:
Average throughput: 59.70 Mbit/s
95th percentile per-packet one-way delay: 113.052 ms
Loss rate: 5.10%
-- Flow 2:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 113.213 ms
Loss rate: 8.76%
-- Flow 3:
Average throughput: 23.94 Mbit/s
95th percentile per-packet one-way delay: 113.397 ms
Loss rate: 38.32%
```
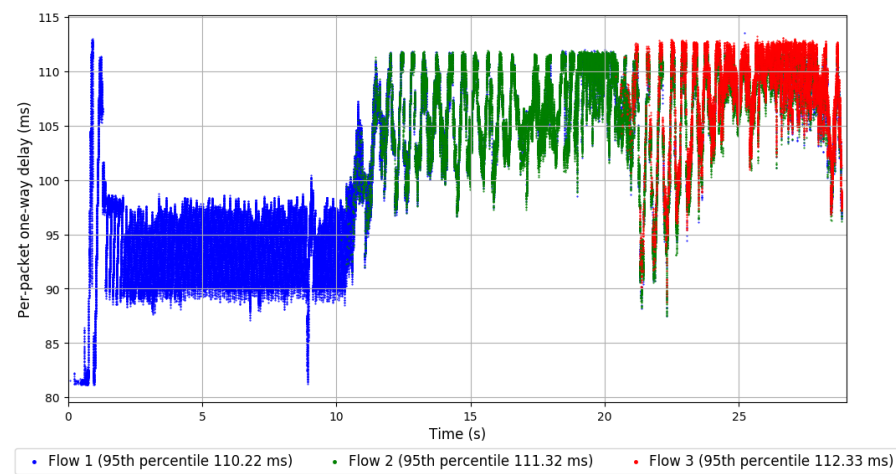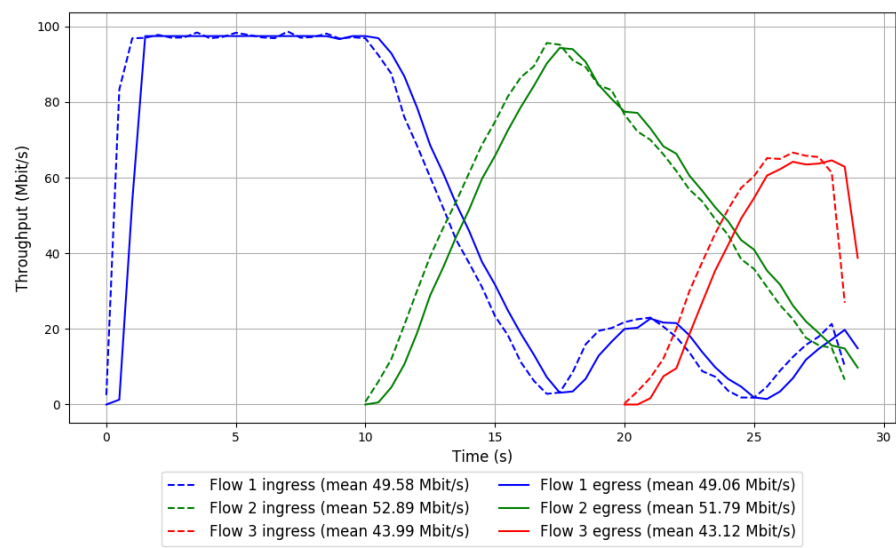
Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 62.97 Mbit/s) — — — Flow 1 egress (mean 59.70 Mbit/s) ——
Flow 2 ingress (mean 37.84 Mbit/s) — — — Flow 2 egress (mean 34.48 Mbit/s) ——
Flow 3 ingress (mean 38.90 Mbit/s) — — — Flow 3 egress (mean 23.94 Mbit/s) ——

Flow 1 (95th percentile 113.05 ms) • Flow 2 (95th percentile 113.21 ms) • Flow 3 (95th percentile 113.40 ms)

```
Run 5: Statistics of Indigo

Start at: 2020-02-18 03:46:44
End at: 2020-02-18 03:47:14
Local clock offset: -0.131 ms
Remote clock offset: -8.356 ms


# Below is generated by plot.py at 2020-02-18 03:54:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.41 Mbit/s
95th percentile per-packet one-way delay: 111.607 ms
Loss rate: 10.93%
-- Flow 1:
Average throughput: 58.16 Mbit/s
95th percentile per-packet one-way delay: 111.339 ms
Loss rate: 8.32%
-- Flow 2:
Average throughput: 33.85 Mbit/s
95th percentile per-packet one-way delay: 111.424 ms
Loss rate: 12.58%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 112.440 ms
Loss rate: 20.82%
```
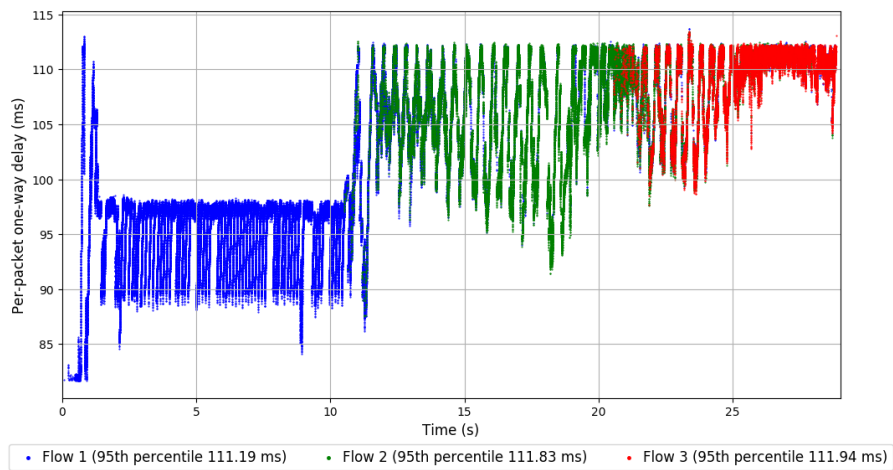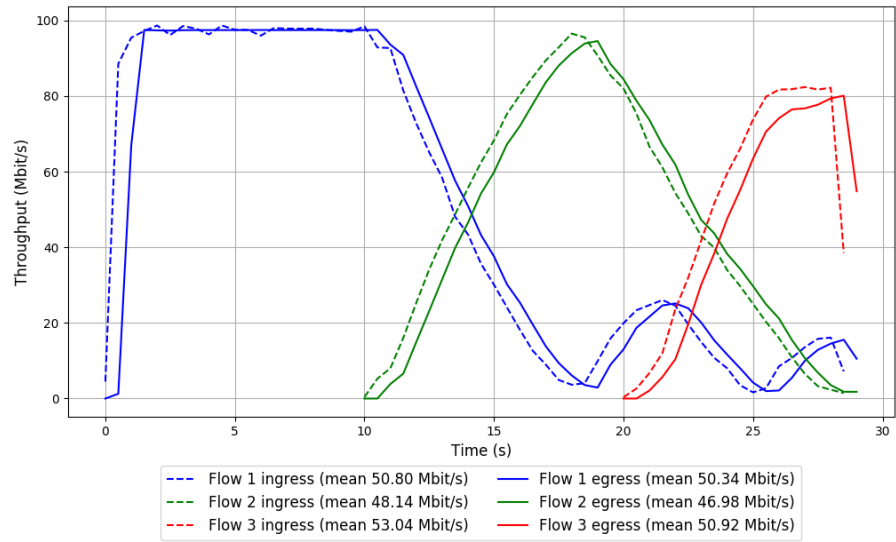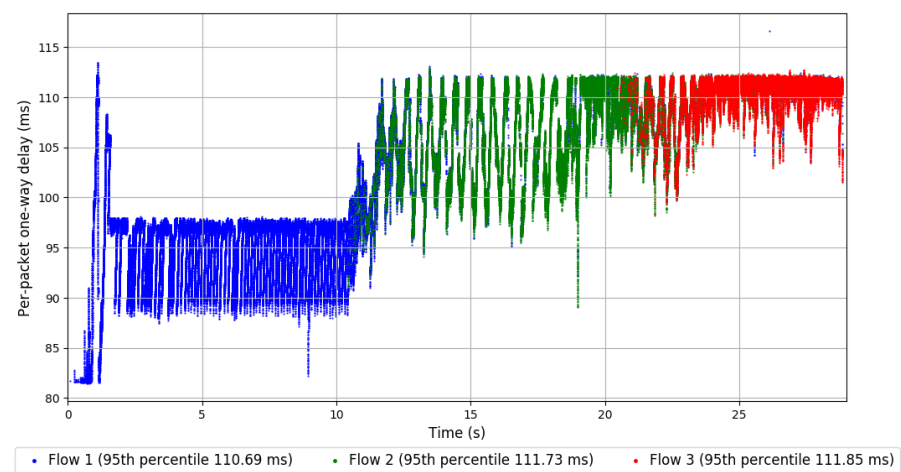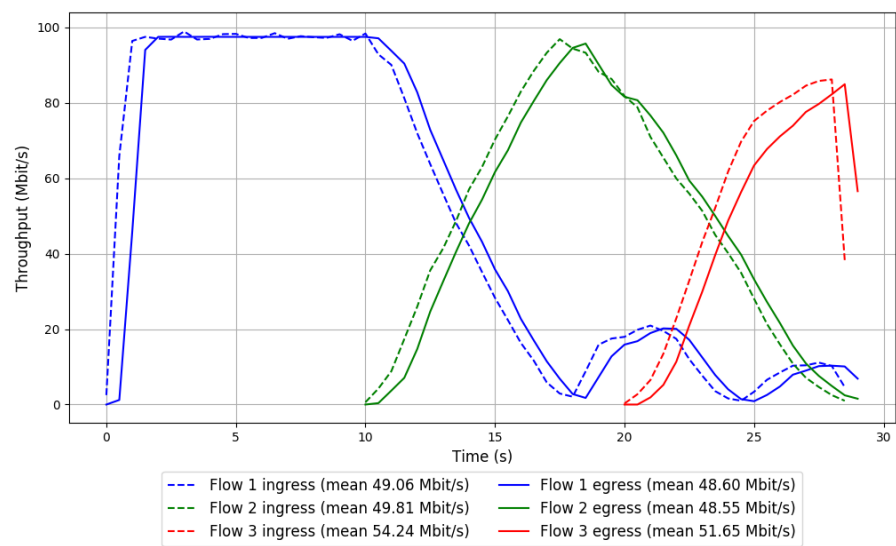
Run 5: Report of Indigo — Data Link
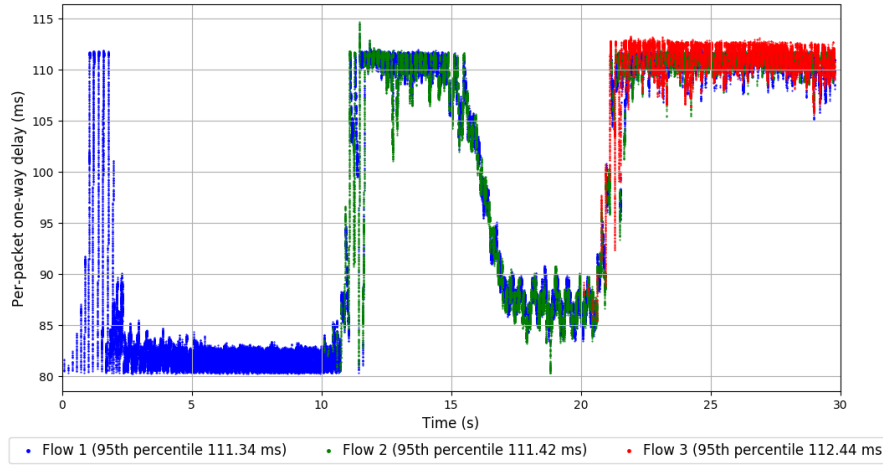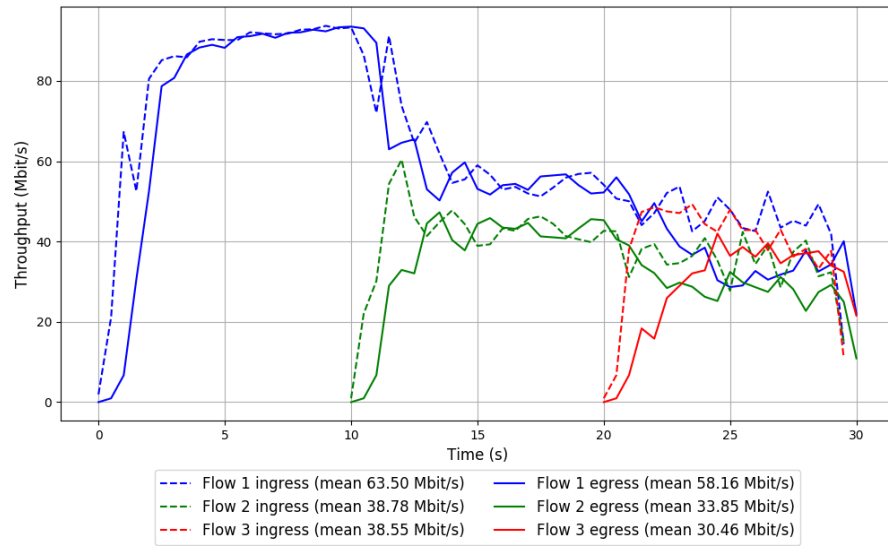
```
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-02-18 01:27:12
End at: 2020-02-18 01:27:42
Local clock offset: -0.885 ms
Remote clock offset: -8.782 ms


# Below is generated by plot.py at 2020-02-18 03:54:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 111.357 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: 110.224 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 51.79 Mbit/s
95th percentile per-packet one-way delay: 111.319 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 112.330 ms
Loss rate: 2.07%
```

Run 1: Report of Indigo-MusesC3 — Data Link

- - - - Flow 1 ingress (mean 49.58 Mbit/s) ——— Flow 1 egress (mean 49.06 Mbit/s)
- - - - Flow 2 ingress (mean 52.89 Mbit/s) ——— Flow 2 egress (mean 51.79 Mbit/s)
- - - - Flow 3 ingress (mean 43.99 Mbit/s) ——— Flow 3 egress (mean 43.12 Mbit/s)

• Flow 1 (95th percentile 110.22 ms)   • Flow 2 (95th percentile 111.32 ms)   • Flow 3 (95th percentile 112.33 ms)
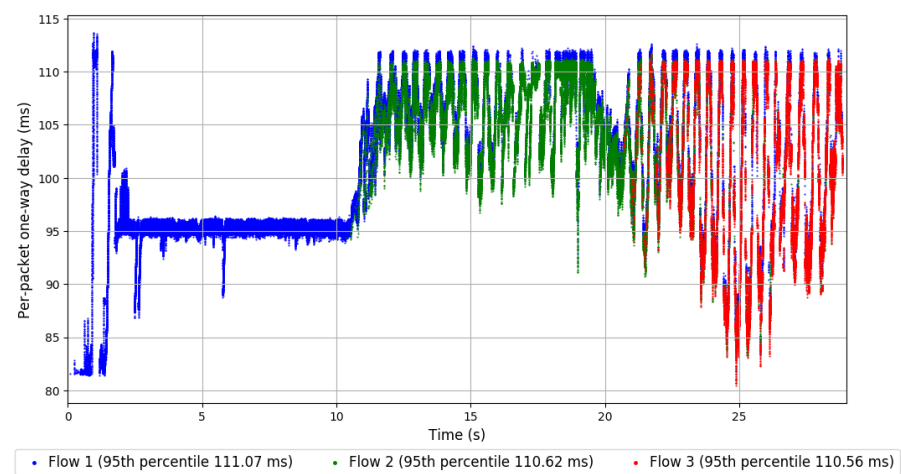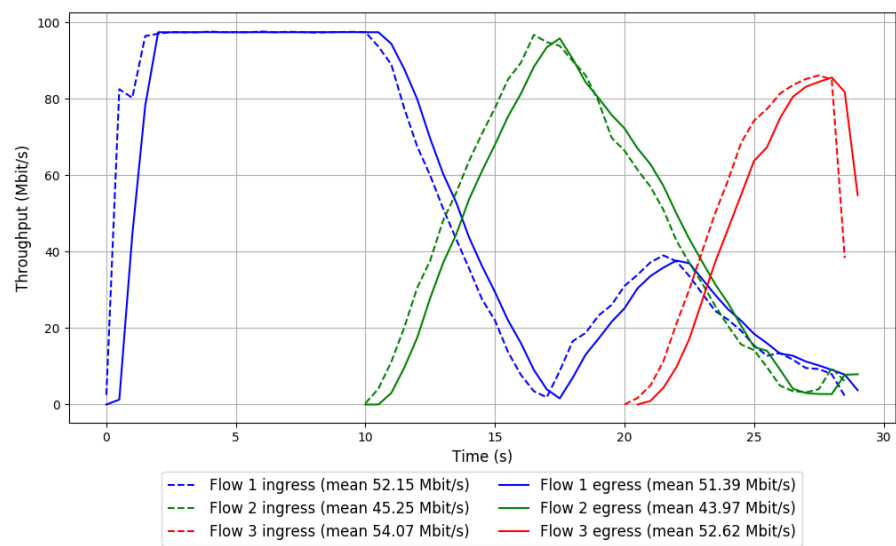
```
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-02-18 01:57:22
End at: 2020-02-18 01:57:52
Local clock offset: 0.144 ms
Remote clock offset: -8.672 ms


# Below is generated by plot.py at 2020-02-18 03:55:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 111.775 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 50.34 Mbit/s
95th percentile per-packet one-way delay: 111.188 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 46.98 Mbit/s
95th percentile per-packet one-way delay: 111.832 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 50.92 Mbit/s
95th percentile per-packet one-way delay: 111.941 ms
Loss rate: 4.00%
```

Run 2: Report of Indigo-MusesC3 — Data Link

- - - - Flow 1 ingress (mean 50.80 Mbit/s) ——— Flow 1 egress (mean 50.34 Mbit/s)
- - - - Flow 2 ingress (mean 48.14 Mbit/s) ——— Flow 2 egress (mean 46.98 Mbit/s)
- - - - Flow 3 ingress (mean 53.04 Mbit/s) ——— Flow 3 egress (mean 50.92 Mbit/s)

- Flow 1 (95th percentile 111.19 ms)   - Flow 2 (95th percentile 111.83 ms)   - Flow 3 (95th percentile 111.94 ms)
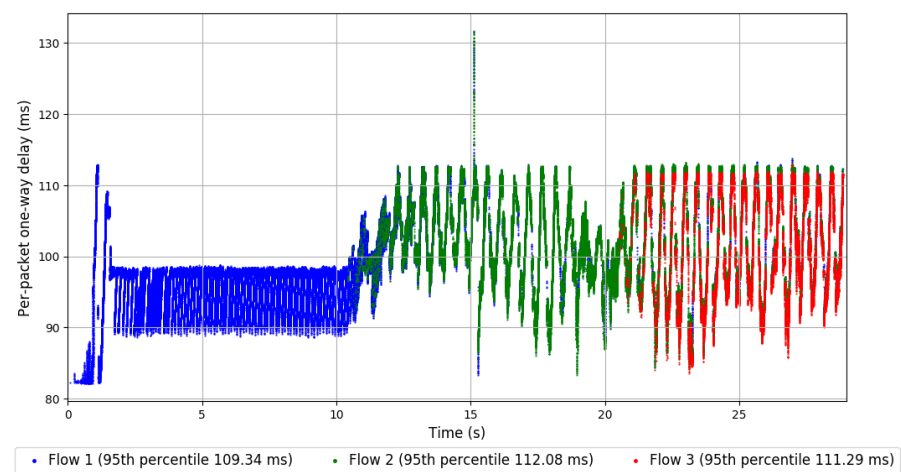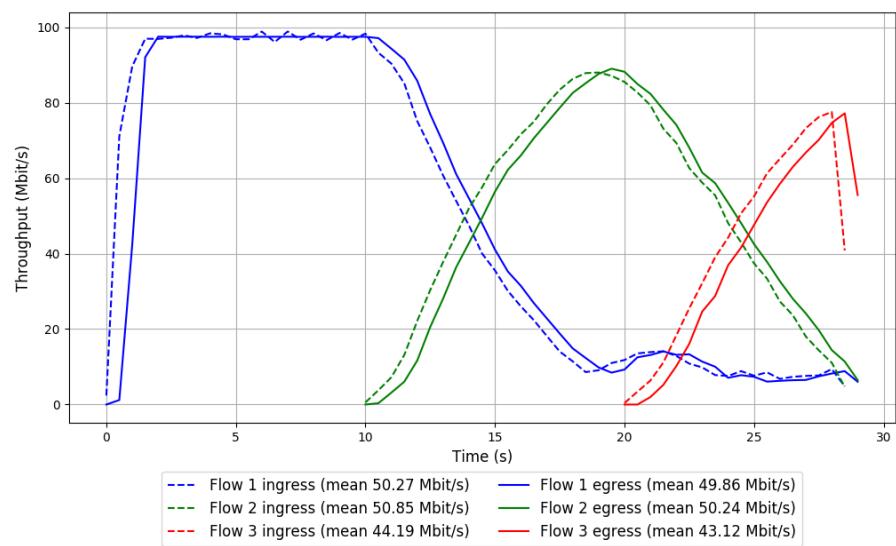
```
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-02-18 02:27:42
End at: 2020-02-18 02:28:12
Local clock offset: -0.263 ms
Remote clock offset: -8.108 ms


# Below is generated by plot.py at 2020-02-18 03:55:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 111.687 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 48.60 Mbit/s
95th percentile per-packet one-way delay: 110.694 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 111.732 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 51.65 Mbit/s
95th percentile per-packet one-way delay: 111.851 ms
Loss rate: 4.85%
```
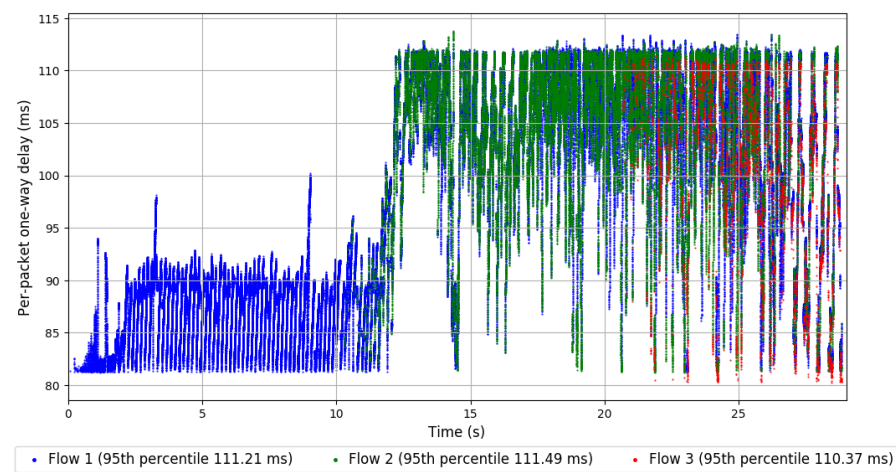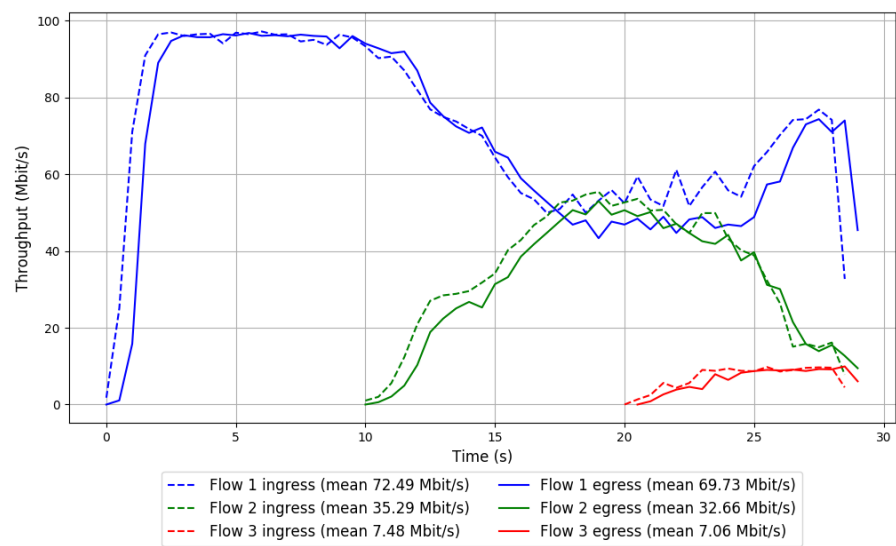
Run 3: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 49.06 Mbit/s) --- Flow 1 egress (mean 48.60 Mbit/s)
Flow 2 ingress (mean 49.81 Mbit/s) --- Flow 2 egress (mean 48.55 Mbit/s)
Flow 3 ingress (mean 54.24 Mbit/s) --- Flow 3 egress (mean 51.65 Mbit/s)

Flow 1 (95th percentile 110.69 ms)   Flow 2 (95th percentile 111.73 ms)   Flow 3 (95th percentile 111.85 ms)

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-02-18 02:57:48
End at: 2020-02-18 02:58:18
Local clock offset: -0.121 ms
Remote clock offset: -8.884 ms

# Below is generated by plot.py at 2020-02-18 03:55:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.80 Mbit/s
95th percentile per-packet one-way delay: 110.672 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 51.39 Mbit/s
95th percentile per-packet one-way delay: 111.074 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 43.97 Mbit/s
95th percentile per-packet one-way delay: 110.616 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 110.558 ms
Loss rate: 2.67%
```
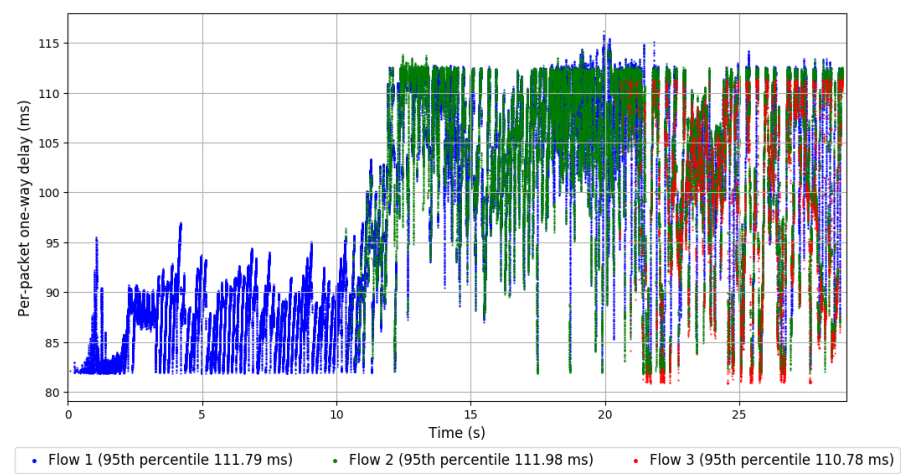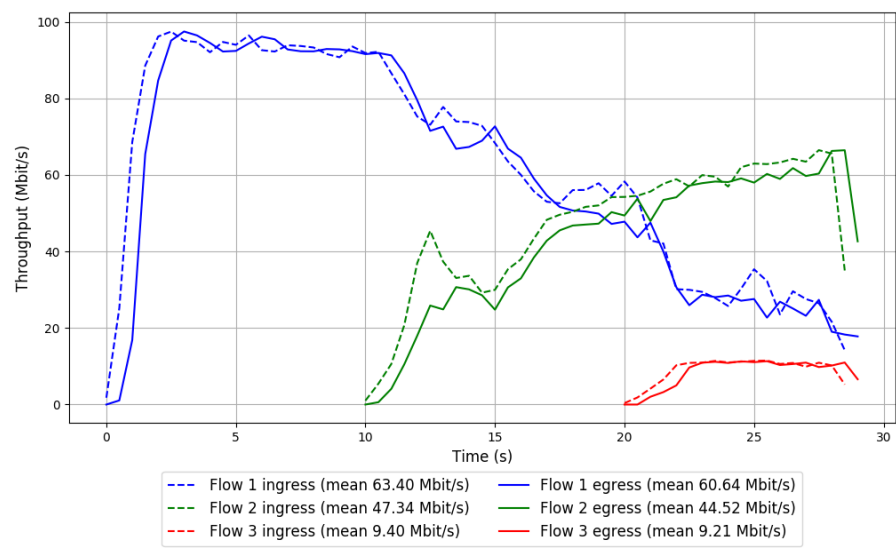
Run 4: Report of Indigo-MusesC3 — Data Link

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-02-18 03:27:50
End at: 2020-02-18 03:28:20
Local clock offset: -0.887 ms
Remote clock offset: -8.163 ms


# Below is generated by plot.py at 2020-02-18 03:55:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 111.330 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 49.86 Mbit/s
95th percentile per-packet one-way delay: 109.338 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 112.079 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 111.287 ms
Loss rate: 2.28%
```

Run 5: Report of Indigo-MusesC3 — Data Link

- - - Flow 1 ingress (mean 50.27 Mbit/s) — Flow 1 egress (mean 49.86 Mbit/s)
- - - Flow 2 ingress (mean 50.85 Mbit/s) — Flow 2 egress (mean 50.24 Mbit/s)
- - - Flow 3 ingress (mean 44.19 Mbit/s) — Flow 3 egress (mean 43.12 Mbit/s)

• Flow 1 (95th percentile 109.34 ms)   • Flow 2 (95th percentile 112.08 ms)   • Flow 3 (95th percentile 111.29 ms)
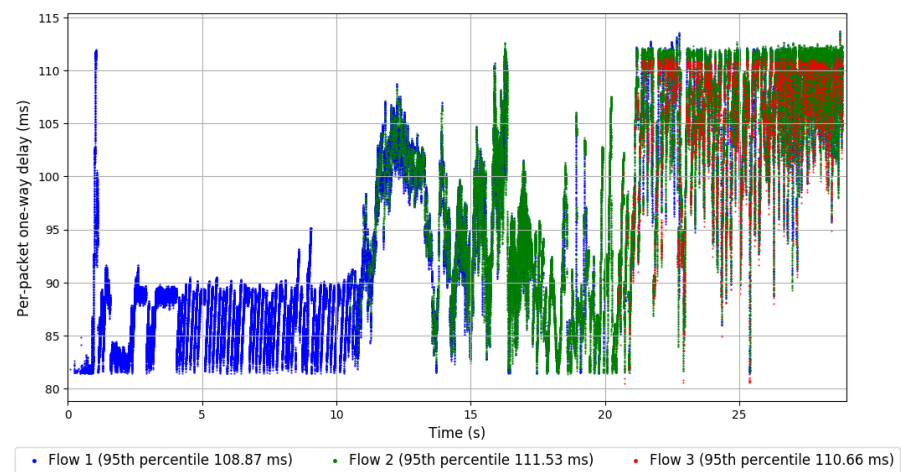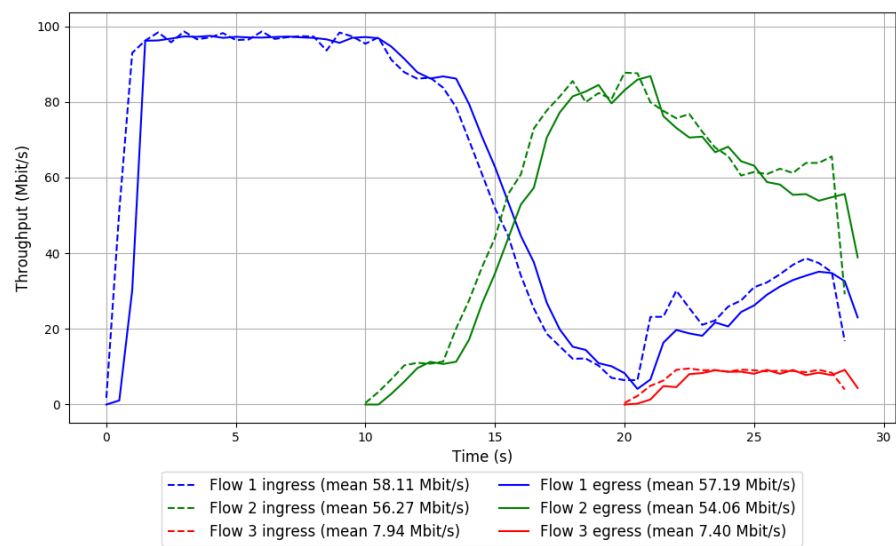
```
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-02-18 01:43:38
End at: 2020-02-18 01:44:08
Local clock offset: 0.589 ms
Remote clock offset: -8.605 ms


# Below is generated by plot.py at 2020-02-18 03:55:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.97 Mbit/s
95th percentile per-packet one-way delay: 111.317 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 69.73 Mbit/s
95th percentile per-packet one-way delay: 111.210 ms
Loss rate: 3.79%
-- Flow 2:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 111.488 ms
Loss rate: 7.45%
-- Flow 3:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 110.368 ms
Loss rate: 5.85%
```

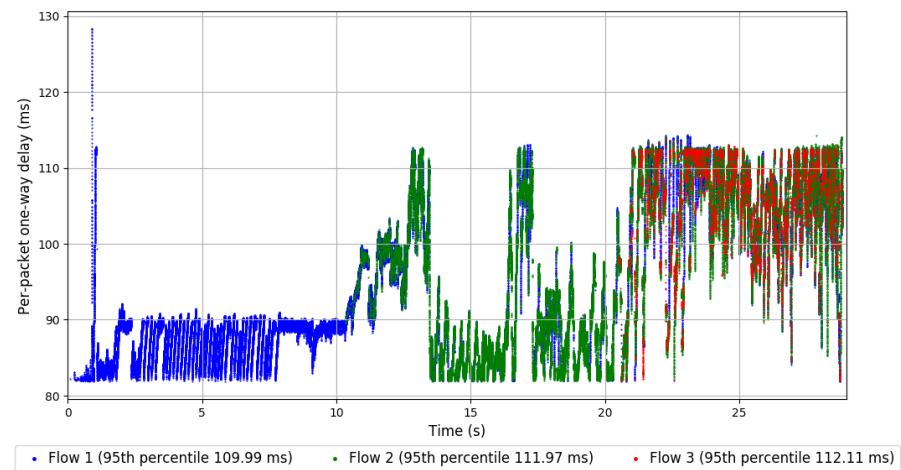Run 1: Report of Indigo-MusesC5 — Data Link

- - - - Flow 1 ingress (mean 72.49 Mbit/s)   —— Flow 1 egress (mean 69.73 Mbit/s)
- - - - Flow 2 ingress (mean 35.29 Mbit/s)   —— Flow 2 egress (mean 32.66 Mbit/s)
- - - - Flow 3 ingress (mean 7.48 Mbit/s)   —— Flow 3 egress (mean 7.06 Mbit/s)

· Flow 1 (95th percentile 111.21 ms)   · Flow 2 (95th percentile 111.49 ms)   · Flow 3 (95th percentile 110.37 ms)
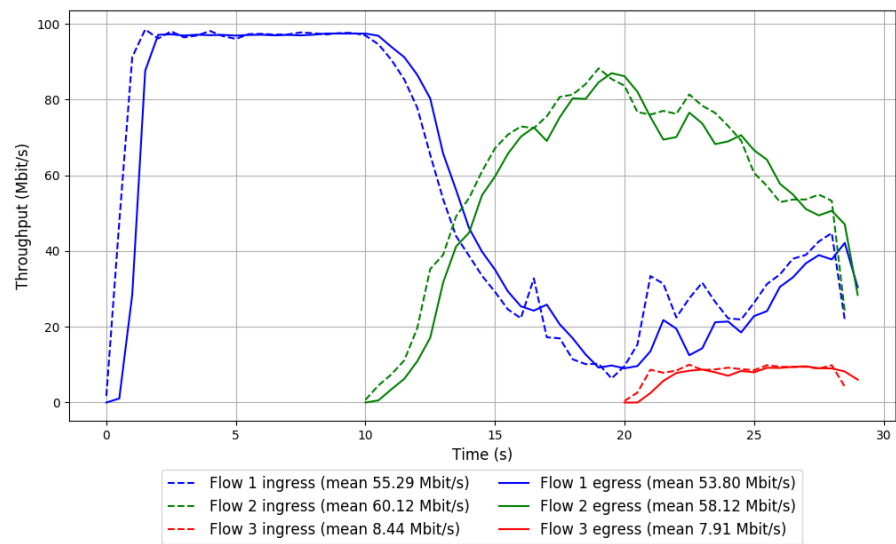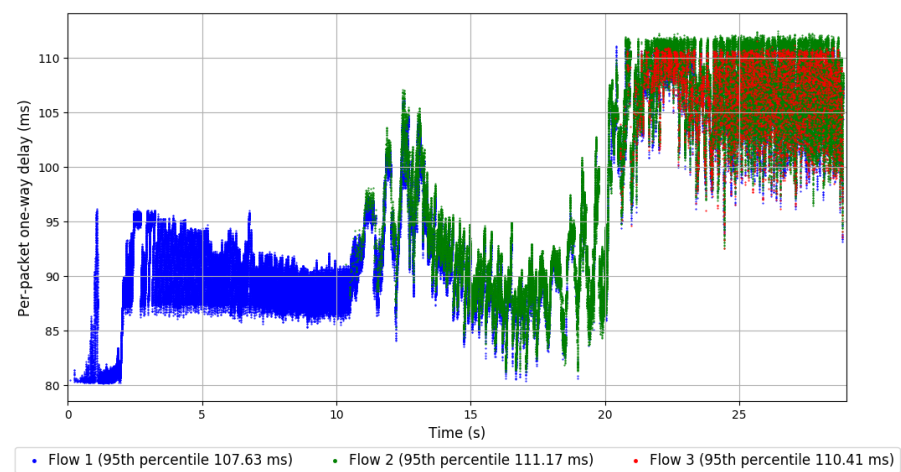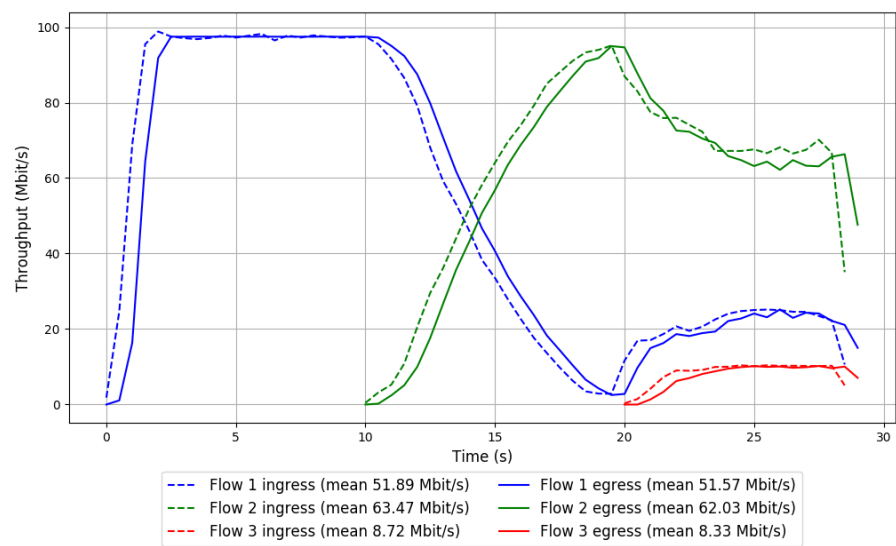
```
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-02-18 02:13:54
End at: 2020-02-18 02:14:24
Local clock offset: -0.789 ms
Remote clock offset: -8.091 ms


# Below is generated by plot.py at 2020-02-18 03:55:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.26 Mbit/s
95th percentile per-packet one-way delay: 111.875 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 60.64 Mbit/s
95th percentile per-packet one-way delay: 111.786 ms
Loss rate: 4.25%
-- Flow 2:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 111.982 ms
Loss rate: 5.83%
-- Flow 3:
Average throughput: 9.21 Mbit/s
95th percentile per-packet one-way delay: 110.778 ms
Loss rate: 2.02%
```

Run 2: Report of Indigo-MusesC5 — Data Link

- - - Flow 1 ingress (mean 63.40 Mbit/s) ——— Flow 1 egress (mean 60.64 Mbit/s)
- - - Flow 2 ingress (mean 47.34 Mbit/s) ——— Flow 2 egress (mean 44.52 Mbit/s)
- - - Flow 3 ingress (mean 9.40 Mbit/s) ——— Flow 3 egress (mean 9.21 Mbit/s)

• Flow 1 (95th percentile 111.79 ms)   • Flow 2 (95th percentile 111.98 ms)   • Flow 3 (95th percentile 110.78 ms)

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-02-18 02:44:05
End at: 2020-02-18 02:44:35
Local clock offset: -0.127 ms
Remote clock offset: -8.788 ms


# Below is generated by plot.py at 2020-02-18 03:55:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 111.111 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 57.19 Mbit/s
95th percentile per-packet one-way delay: 108.873 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 111.531 ms
Loss rate: 3.78%
-- Flow 3:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 110.659 ms
Loss rate: 6.52%
```

Run 3: Report of Indigo-MusesC5 — Data Link

- - - - Flow 1 ingress (mean 58.11 Mbit/s) ──── Flow 1 egress (mean 57.19 Mbit/s)
- - - - Flow 2 ingress (mean 56.27 Mbit/s) ──── Flow 2 egress (mean 54.06 Mbit/s)
- - - - Flow 3 ingress (mean 7.94 Mbit/s) ──── Flow 3 egress (mean 7.40 Mbit/s)

• Flow 1 (95th percentile 108.87 ms)   • Flow 2 (95th percentile 111.53 ms)   • Flow 3 (95th percentile 110.66 ms)
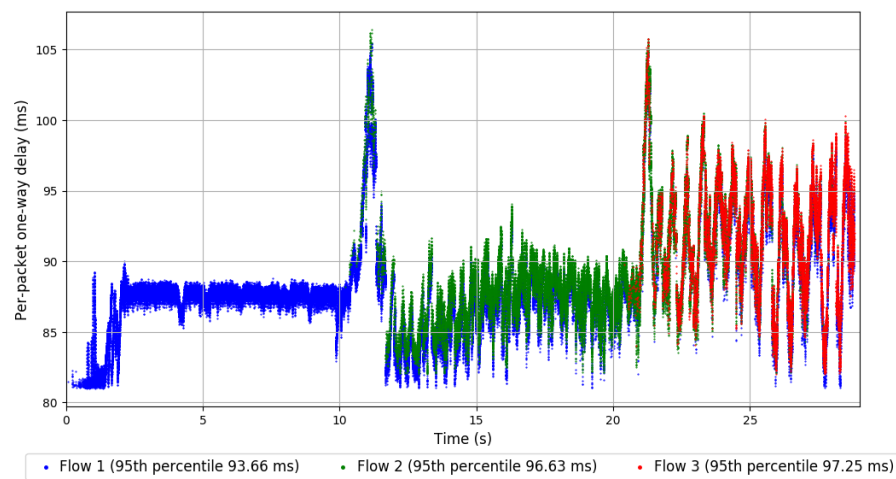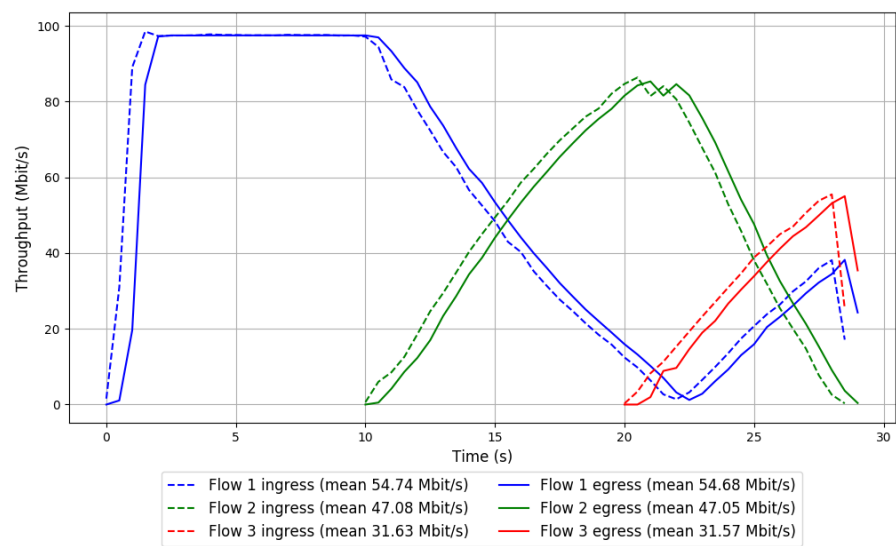
```
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-02-18 03:14:11
End at: 2020-02-18 03:14:41
Local clock offset: -0.875 ms
Remote clock offset: -8.507 ms


# Below is generated by plot.py at 2020-02-18 03:55:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 111.650 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 53.80 Mbit/s
95th percentile per-packet one-way delay: 109.987 ms
Loss rate: 2.62%
-- Flow 2:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 111.969 ms
Loss rate: 3.22%
-- Flow 3:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 112.113 ms
Loss rate: 6.23%
```

Run 4: Report of Indigo-MusesC5 — Data Link

- - - Flow 1 ingress (mean 55.29 Mbit/s) —— Flow 1 egress (mean 53.80 Mbit/s)
- - - Flow 2 ingress (mean 60.12 Mbit/s) —— Flow 2 egress (mean 58.12 Mbit/s)
- - - Flow 3 ingress (mean 8.44 Mbit/s) —— Flow 3 egress (mean 7.91 Mbit/s)

• Flow 1 (95th percentile 109.99 ms) • Flow 2 (95th percentile 111.97 ms) • Flow 3 (95th percentile 112.11 ms)
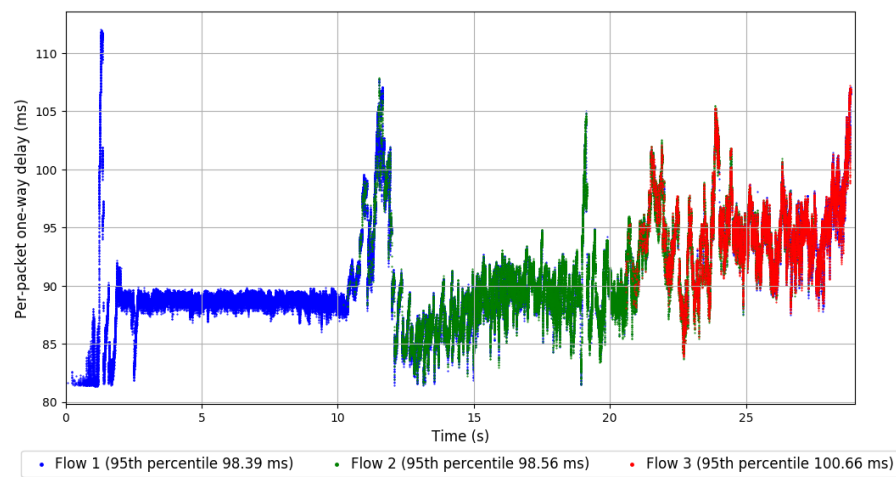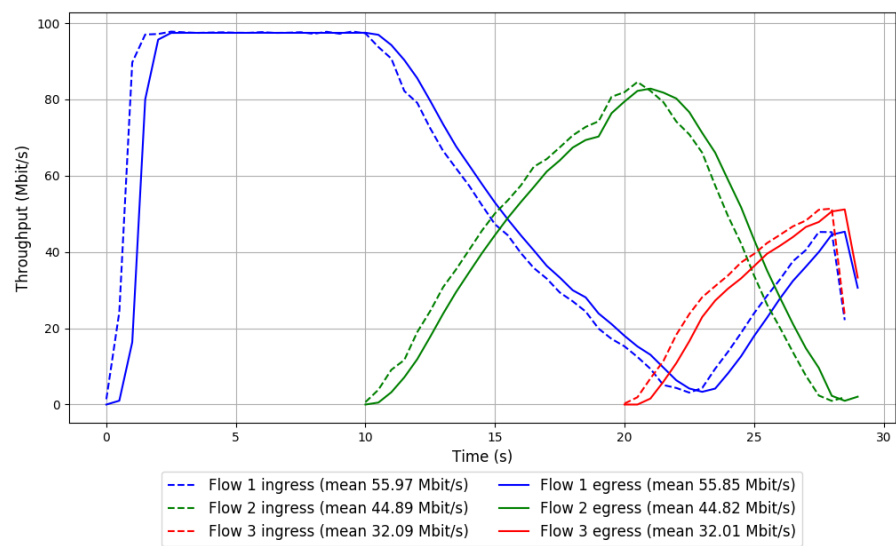
```
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-02-18 03:44:12
End at: 2020-02-18 03:44:42
Local clock offset: -0.14 ms
Remote clock offset: -8.447 ms


# Below is generated by plot.py at 2020-02-18 03:56:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 110.360 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 107.632 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 62.03 Mbit/s
95th percentile per-packet one-way delay: 111.175 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 110.412 ms
Loss rate: 4.46%
```

Run 5: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 51.89 Mbit/s) --- Flow 1 egress (mean 51.57 Mbit/s)
Flow 2 ingress (mean 63.47 Mbit/s) --- Flow 2 egress (mean 62.03 Mbit/s)
Flow 3 ingress (mean 8.72 Mbit/s) --- Flow 3 egress (mean 8.33 Mbit/s)

Flow 1 (95th percentile 107.63 ms)   Flow 2 (95th percentile 111.17 ms)   Flow 3 (95th percentile 110.41 ms)
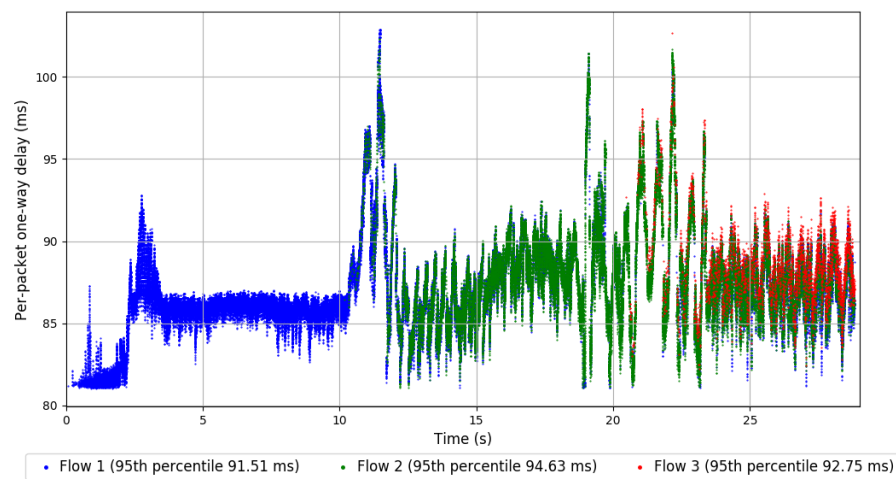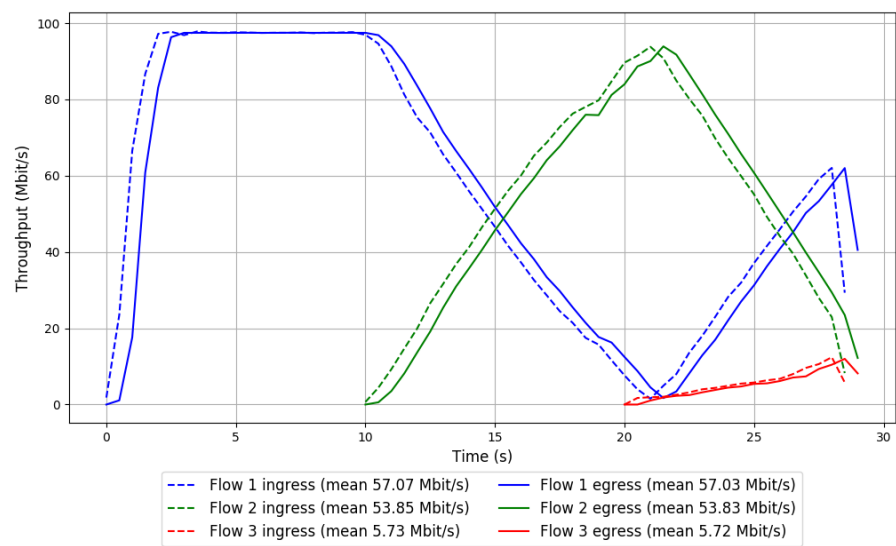
```
Run 1: Statistics of Indigo-MusesD

Start at: 2020-02-18 01:38:34
End at: 2020-02-18 01:39:04
Local clock offset: 0.491 ms
Remote clock offset: -8.428 ms


# Below is generated by plot.py at 2020-02-18 03:56:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 111.738 ms
Loss rate: 4.75%
-- Flow 1:
Average throughput: 82.23 Mbit/s
95th percentile per-packet one-way delay: 111.751 ms
Loss rate: 4.20%
-- Flow 2:
Average throughput: 5.85 Mbit/s
95th percentile per-packet one-way delay: 111.809 ms
Loss rate: 4.58%
-- Flow 3:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 110.876 ms
Loss rate: 10.02%
```
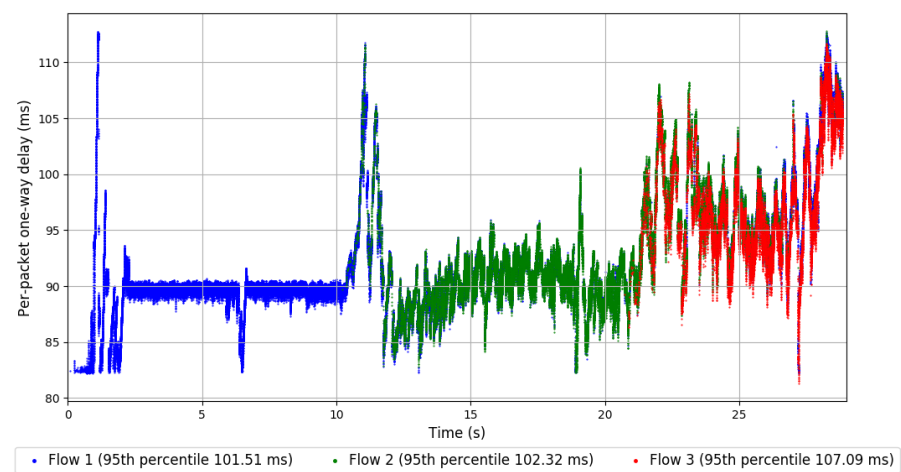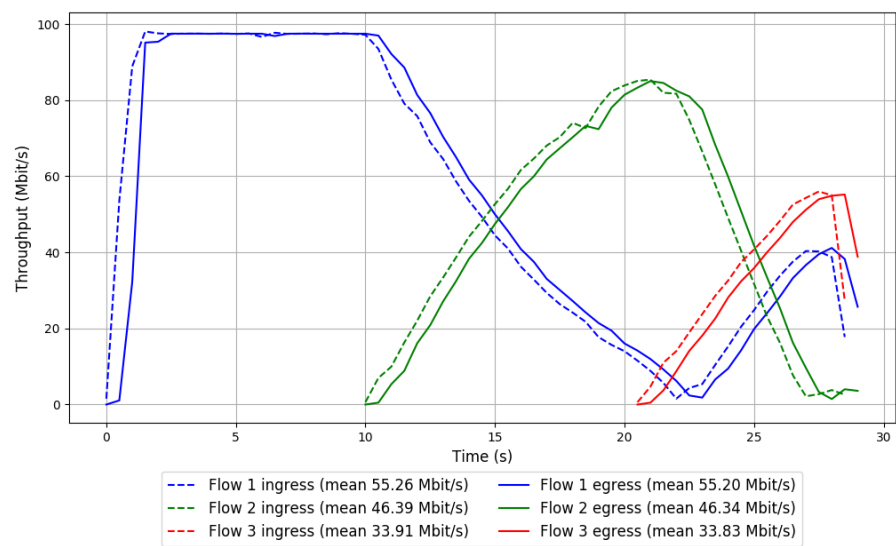
Run 1: Report of Indigo-MusesD — Data Link
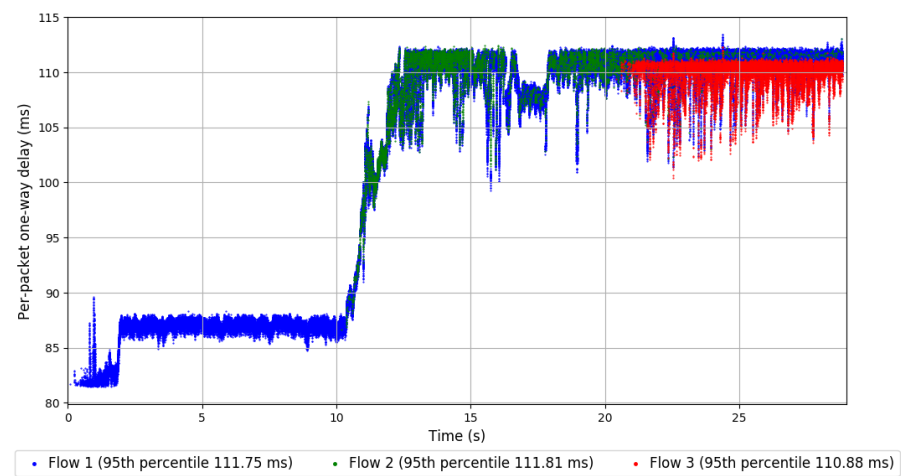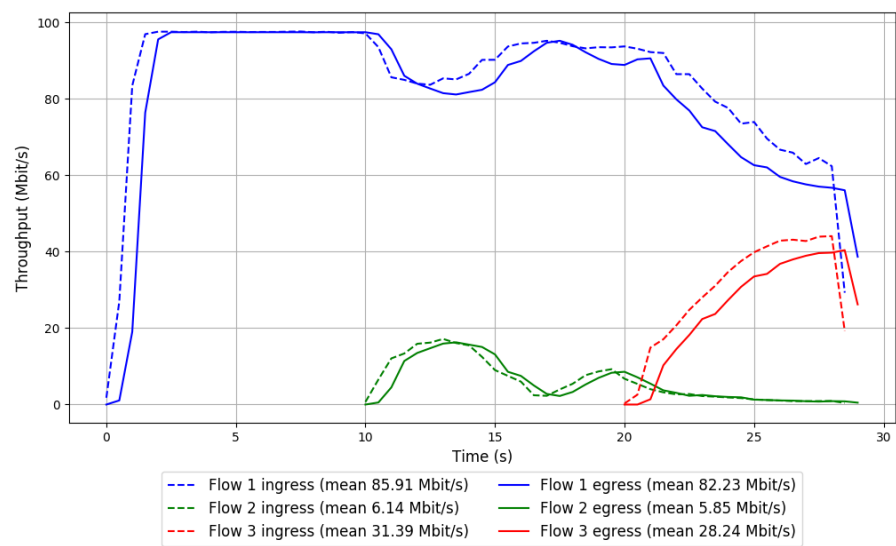
```
Run 2: Statistics of Indigo-MusesD

Start at: 2020-02-18 02:08:46
End at: 2020-02-18 02:09:16
Local clock offset: -0.688 ms
Remote clock offset: -8.086 ms


# Below is generated by plot.py at 2020-02-18 03:56:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.35 Mbit/s
95th percentile per-packet one-way delay: 96.067 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 54.68 Mbit/s
95th percentile per-packet one-way delay: 93.655 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 96.629 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 97.246 ms
Loss rate: 0.16%
```

Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2020-02-18 02:39:01
End at: 2020-02-18 02:39:31
Local clock offset: -0.145 ms
Remote clock offset: -8.732 ms


# Below is generated by plot.py at 2020-02-18 03:56:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.24 Mbit/s
95th percentile per-packet one-way delay: 98.806 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 55.85 Mbit/s
95th percentile per-packet one-way delay: 98.387 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 98.560 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 32.01 Mbit/s
95th percentile per-packet one-way delay: 100.664 ms
Loss rate: 0.06%
```

Run 3: Report of Indigo-MusesD — Data Link

- - - Flow 1 ingress (mean 55.97 Mbit/s) —— Flow 1 egress (mean 55.85 Mbit/s)
- - - Flow 2 ingress (mean 44.89 Mbit/s) —— Flow 2 egress (mean 44.82 Mbit/s)
- - - Flow 3 ingress (mean 32.09 Mbit/s) —— Flow 3 egress (mean 32.01 Mbit/s)

• Flow 1 (95th percentile 98.39 ms)   • Flow 2 (95th percentile 98.56 ms)   • Flow 3 (95th percentile 100.66 ms)

```
Run 4: Statistics of Indigo-MusesD

Start at: 2020-02-18 03:09:07
End at: 2020-02-18 03:09:37
Local clock offset: -0.86 ms
Remote clock offset: -8.472 ms


# Below is generated by plot.py at 2020-02-18 03:56:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 93.232 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 91.509 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 53.83 Mbit/s
95th percentile per-packet one-way delay: 94.628 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 92.747 ms
Loss rate: 0.10%
```
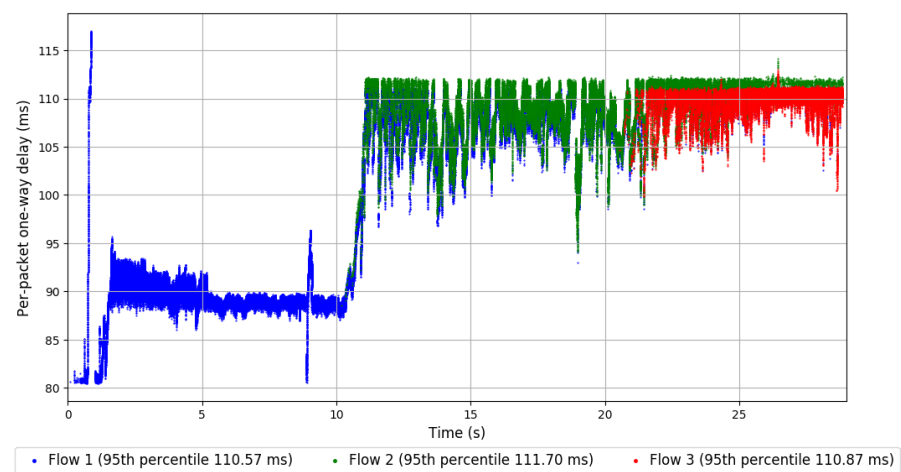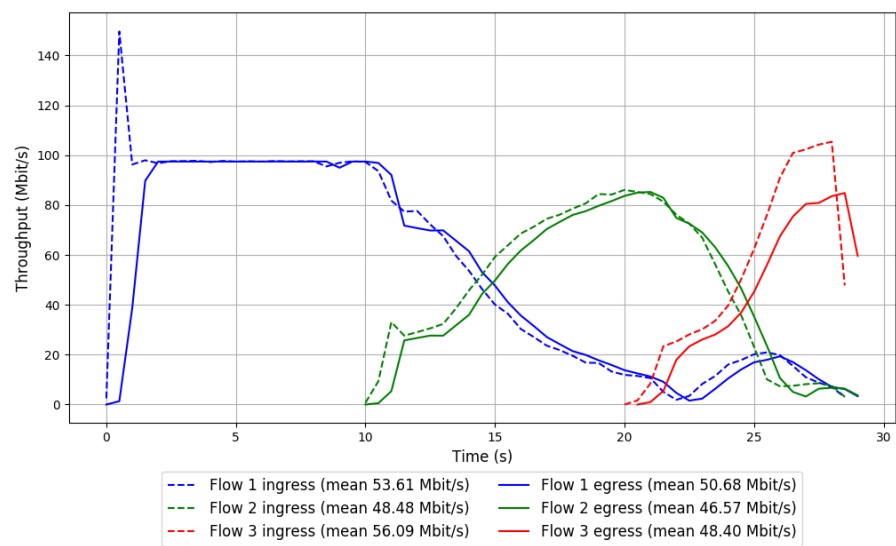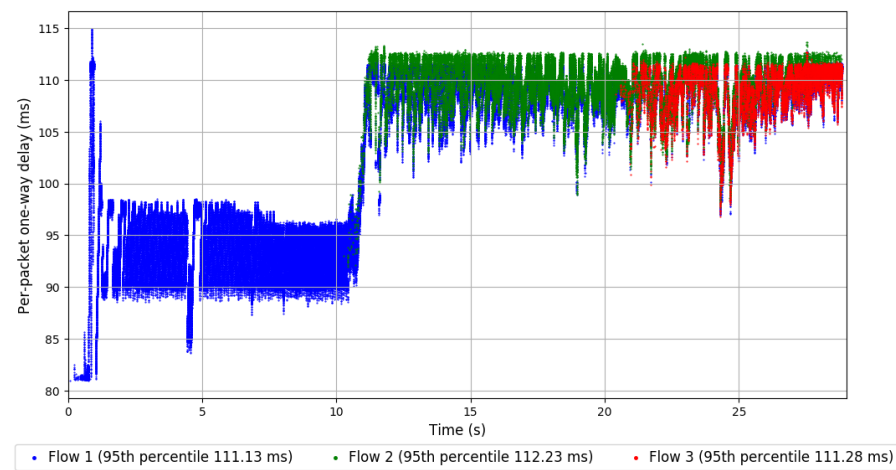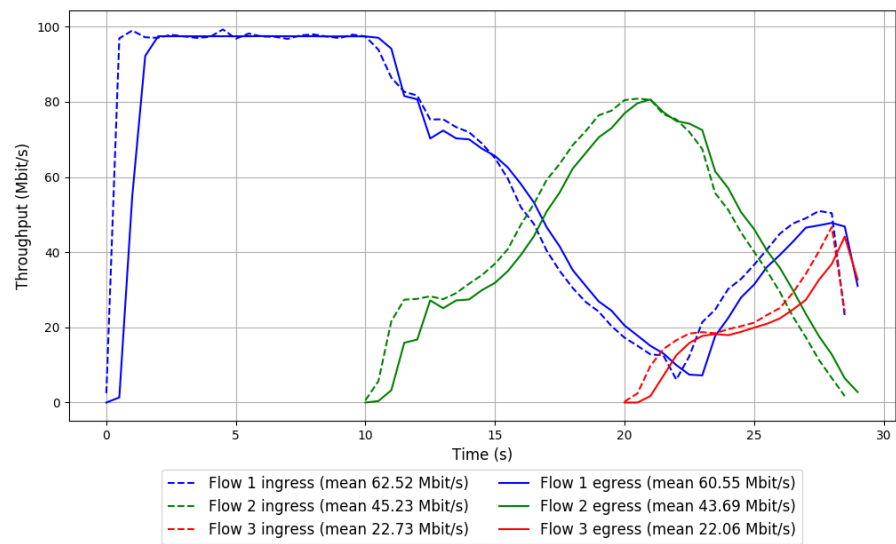
Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2020-02-18 03:39:08
End at: 2020-02-18 03:39:38
Local clock offset: -0.849 ms
Remote clock offset: -8.118 ms


# Below is generated by plot.py at 2020-02-18 03:56:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.77 Mbit/s
95th percentile per-packet one-way delay: 103.554 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 55.20 Mbit/s
95th percentile per-packet one-way delay: 101.508 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 46.34 Mbit/s
95th percentile per-packet one-way delay: 102.323 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 33.83 Mbit/s
95th percentile per-packet one-way delay: 107.094 ms
Loss rate: 0.03%
```

Run 5: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 55.26 Mbit/s) ---- Flow 1 egress (mean 55.20 Mbit/s) ——
Flow 2 ingress (mean 46.39 Mbit/s) ---- Flow 2 egress (mean 46.34 Mbit/s) ——
Flow 3 ingress (mean 33.91 Mbit/s) ---- Flow 3 egress (mean 33.83 Mbit/s) ——

Flow 1 (95th percentile 101.51 ms) • Flow 2 (95th percentile 102.32 ms) • Flow 3 (95th percentile 107.09 ms)
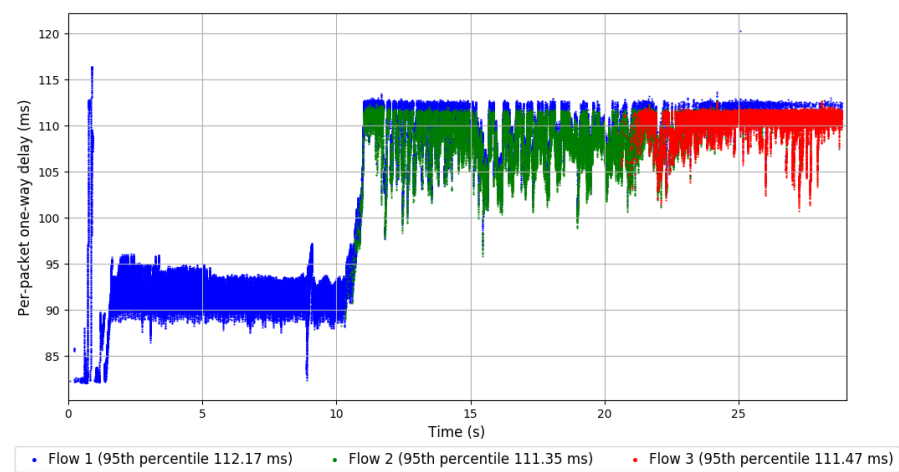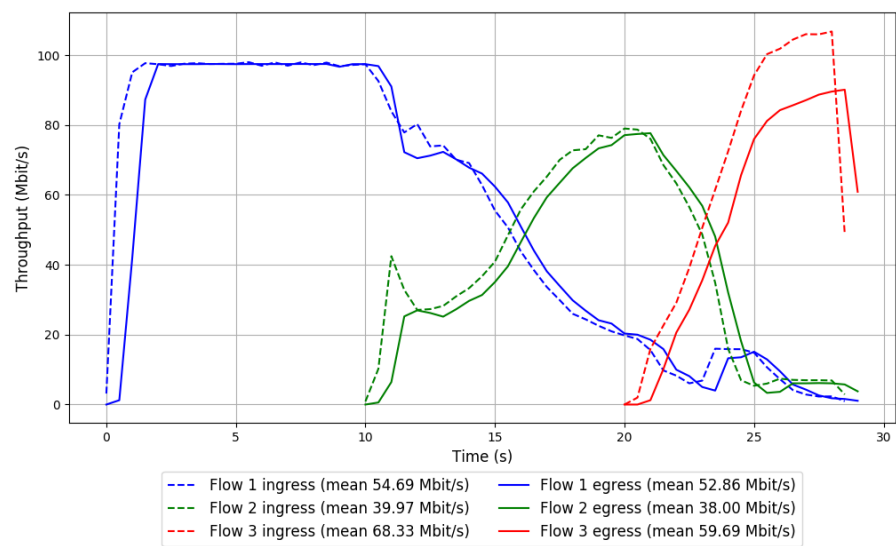
94

```
Run 1: Statistics of Indigo-MusesT

Start at: 2020-02-18 01:39:51
End at: 2020-02-18 01:40:21
Local clock offset: -0.187 ms
Remote clock offset: -8.69 ms


# Below is generated by plot.py at 2020-02-18 03:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 111.516 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 53.81 Mbit/s
95th percentile per-packet one-way delay: 111.955 ms
Loss rate: 2.80%
-- Flow 2:
Average throughput: 54.53 Mbit/s
95th percentile per-packet one-way delay: 111.239 ms
Loss rate: 5.00%
-- Flow 3:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 111.259 ms
Loss rate: 4.51%
```
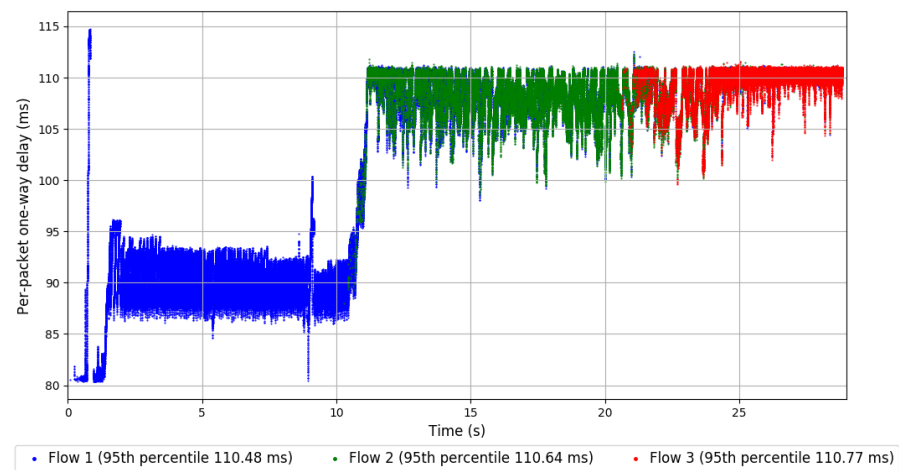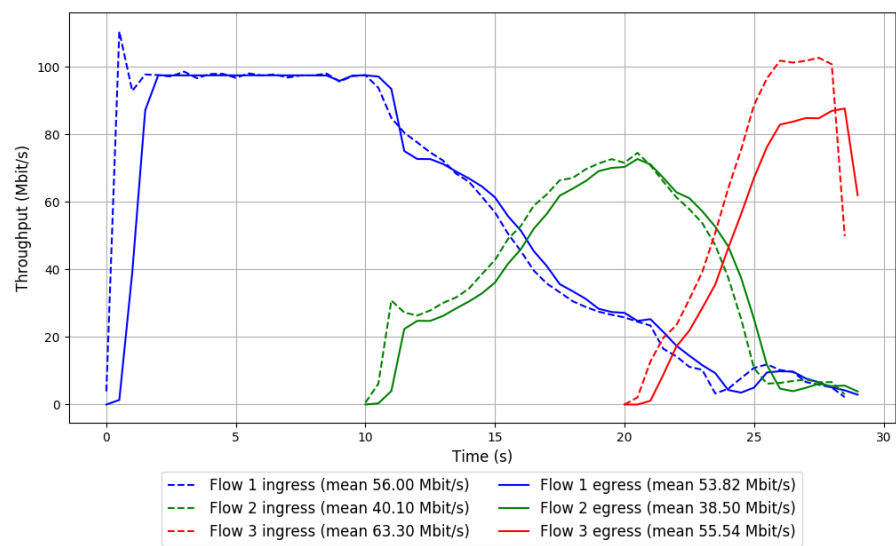
Run 1: Report of Indigo-MusesT — Data Link
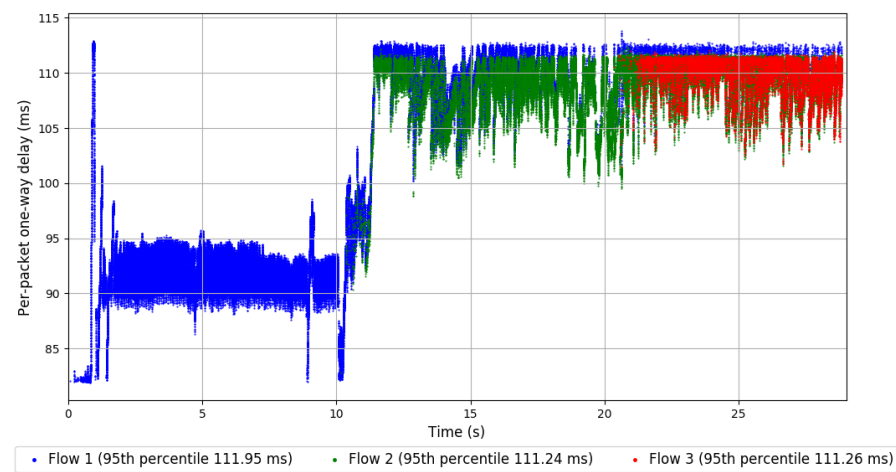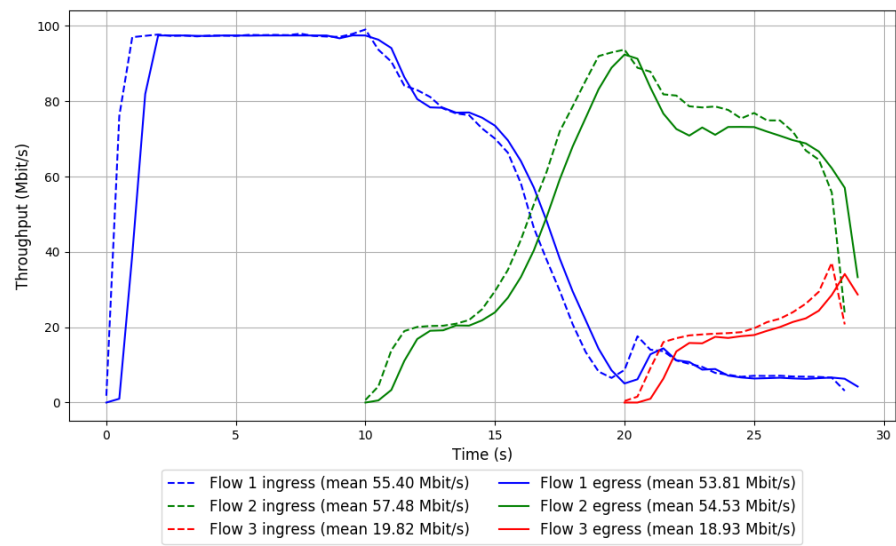
```
Run 2: Statistics of Indigo-MusesT

Start at: 2020-02-18 02:10:04
End at: 2020-02-18 02:10:34
Local clock offset: -0.751 ms
Remote clock offset: -8.61 ms


# Below is generated by plot.py at 2020-02-18 03:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.86 Mbit/s
95th percentile per-packet one-way delay: 111.373 ms
Loss rate: 6.21%
-- Flow 1:
Average throughput: 50.68 Mbit/s
95th percentile per-packet one-way delay: 110.569 ms
Loss rate: 5.36%
-- Flow 2:
Average throughput: 46.57 Mbit/s
95th percentile per-packet one-way delay: 111.698 ms
Loss rate: 3.81%
-- Flow 3:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: 110.869 ms
Loss rate: 13.66%
```
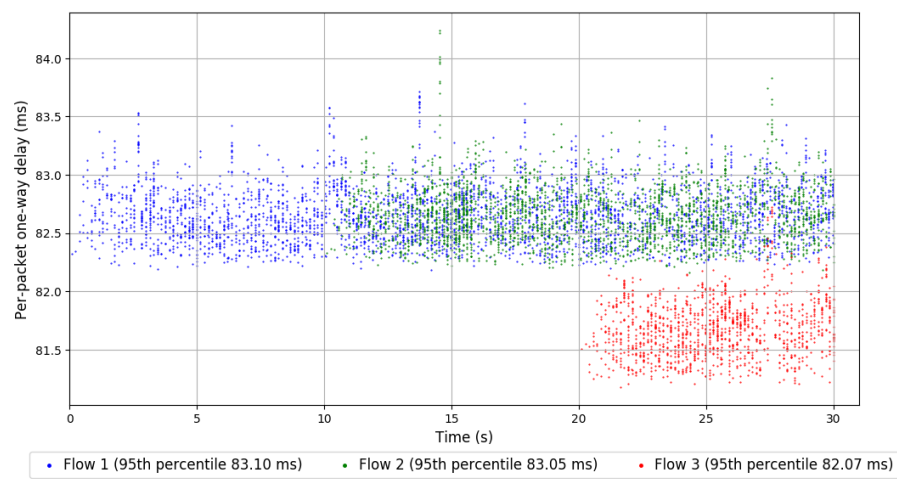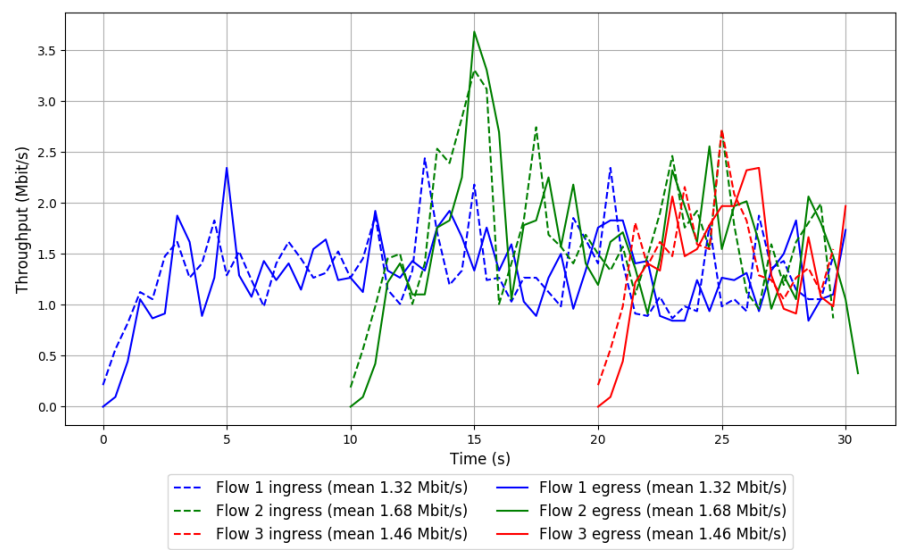
Run 2: Report of Indigo-MusesT — Data Link

- - - Flow 1 ingress (mean 53.61 Mbit/s) —— Flow 1 egress (mean 50.68 Mbit/s)
- - - Flow 2 ingress (mean 48.48 Mbit/s) —— Flow 2 egress (mean 46.57 Mbit/s)
- - - Flow 3 ingress (mean 56.09 Mbit/s) —— Flow 3 egress (mean 48.40 Mbit/s)

• Flow 1 (95th percentile 110.57 ms)   • Flow 2 (95th percentile 111.70 ms)   • Flow 3 (95th percentile 110.87 ms)

```
Run 3: Statistics of Indigo-MusesT

Start at: 2020-02-18 02:40:18
End at: 2020-02-18 02:40:48
Local clock offset: -0.866 ms
Remote clock offset: -8.874 ms


# Below is generated by plot.py at 2020-02-18 03:57:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 111.788 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 60.55 Mbit/s
95th percentile per-packet one-way delay: 111.131 ms
Loss rate: 3.07%
-- Flow 2:
Average throughput: 43.69 Mbit/s
95th percentile per-packet one-way delay: 112.230 ms
Loss rate: 3.30%
-- Flow 3:
Average throughput: 22.06 Mbit/s
95th percentile per-packet one-way delay: 111.279 ms
Loss rate: 2.93%
```

Run 3: Report of Indigo-MusesT — Data Link

- - - - Flow 1 ingress (mean 62.52 Mbit/s)   —— Flow 1 egress (mean 60.55 Mbit/s)
- - - - Flow 2 ingress (mean 45.23 Mbit/s)   —— Flow 2 egress (mean 43.69 Mbit/s)
- - - - Flow 3 ingress (mean 22.73 Mbit/s)   —— Flow 3 egress (mean 22.06 Mbit/s)

- Flow 1 (95th percentile 111.13 ms)   • Flow 2 (95th percentile 112.23 ms)   • Flow 3 (95th percentile 111.28 ms)

```
Run 4: Statistics of Indigo-MusesT

Start at: 2020-02-18 03:10:23
End at: 2020-02-18 03:10:53
Local clock offset: -0.854 ms
Remote clock offset: -8.413 ms


# Below is generated by plot.py at 2020-02-18 03:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.90 Mbit/s
95th percentile per-packet one-way delay: 111.872 ms
Loss rate: 5.51%
-- Flow 1:
Average throughput: 52.86 Mbit/s
95th percentile per-packet one-way delay: 112.171 ms
Loss rate: 3.25%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 111.350 ms
Loss rate: 4.83%
-- Flow 3:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 111.468 ms
Loss rate: 12.61%
```

Run 4: Report of Indigo-MusesT — Data Link

- - - - Flow 1 ingress (mean 54.69 Mbit/s) ——— Flow 1 egress (mean 52.86 Mbit/s)
- - - - Flow 2 ingress (mean 39.97 Mbit/s) ——— Flow 2 egress (mean 38.00 Mbit/s)
- - - - Flow 3 ingress (mean 68.33 Mbit/s) ——— Flow 3 egress (mean 59.69 Mbit/s)

- Flow 1 (95th percentile 112.17 ms) • Flow 2 (95th percentile 111.35 ms) • Flow 3 (95th percentile 111.47 ms)

```
Run 5: Statistics of Indigo-MusesT

Start at: 2020-02-18 03:40:25
End at: 2020-02-18 03:40:55
Local clock offset: -0.119 ms
Remote clock offset: -8.216 ms


# Below is generated by plot.py at 2020-02-18 03:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 110.662 ms
Loss rate: 5.38%
-- Flow 1:
Average throughput: 53.82 Mbit/s
95th percentile per-packet one-way delay: 110.476 ms
Loss rate: 3.81%
-- Flow 2:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 110.642 ms
Loss rate: 3.89%
-- Flow 3:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 110.774 ms
Loss rate: 12.24%
```

Run 5: Report of Indigo-MusesT — Data Link


Flow 1 ingress (mean 56.00 Mbit/s) — — —   Flow 1 egress (mean 53.82 Mbit/s) ———
Flow 2 ingress (mean 40.10 Mbit/s) — — —   Flow 2 egress (mean 38.50 Mbit/s) ———
Flow 3 ingress (mean 63.30 Mbit/s) — — —   Flow 3 egress (mean 55.54 Mbit/s) ———

Flow 1 (95th percentile 110.48 ms)   Flow 2 (95th percentile 110.64 ms)   Flow 3 (95th percentile 110.77 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2020-02-18 01:21:04
End at: 2020-02-18 01:21:34
Local clock offset: -0.955 ms
Remote clock offset: -8.915 ms

# Below is generated by plot.py at 2020-02-18 03:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 83.046 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 83.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 83.048 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 82.066 ms
Loss rate: 0.08%
```
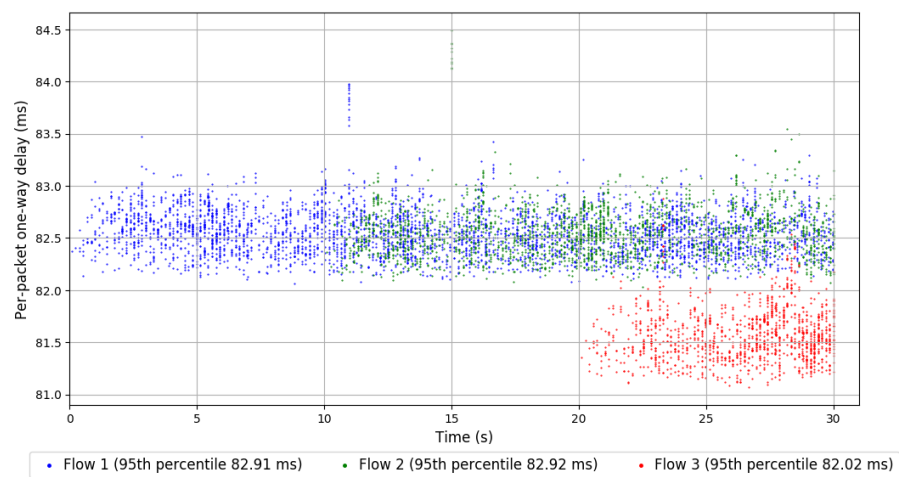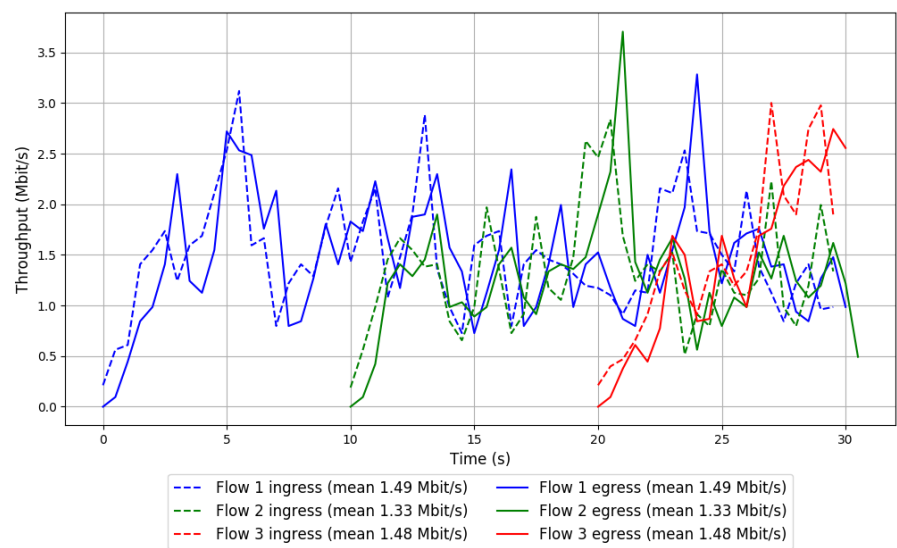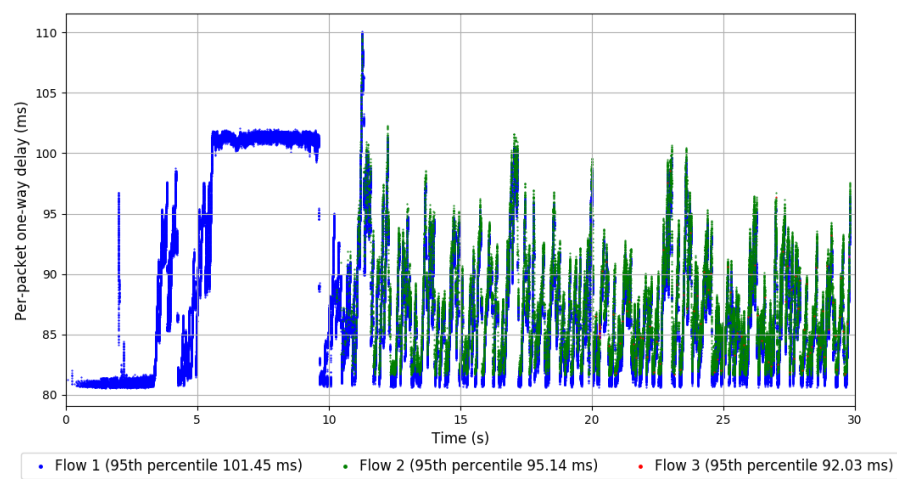
Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 1.32 Mbit/s) --- Flow 1 egress (mean 1.32 Mbit/s)
Flow 2 ingress (mean 1.68 Mbit/s) --- Flow 2 egress (mean 1.68 Mbit/s)
Flow 3 ingress (mean 1.46 Mbit/s) --- Flow 3 egress (mean 1.46 Mbit/s)

Flow 1 (95th percentile 83.10 ms) · Flow 2 (95th percentile 83.05 ms) · Flow 3 (95th percentile 82.07 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2020-02-18 01:51:15
End at: 2020-02-18 01:51:45
Local clock offset: 0.789 ms
Remote clock offset: -8.465 ms


# Below is generated by plot.py at 2020-02-18 03:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 81.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 81.124 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 81.050 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 82.125 ms
Loss rate: 0.00%
```
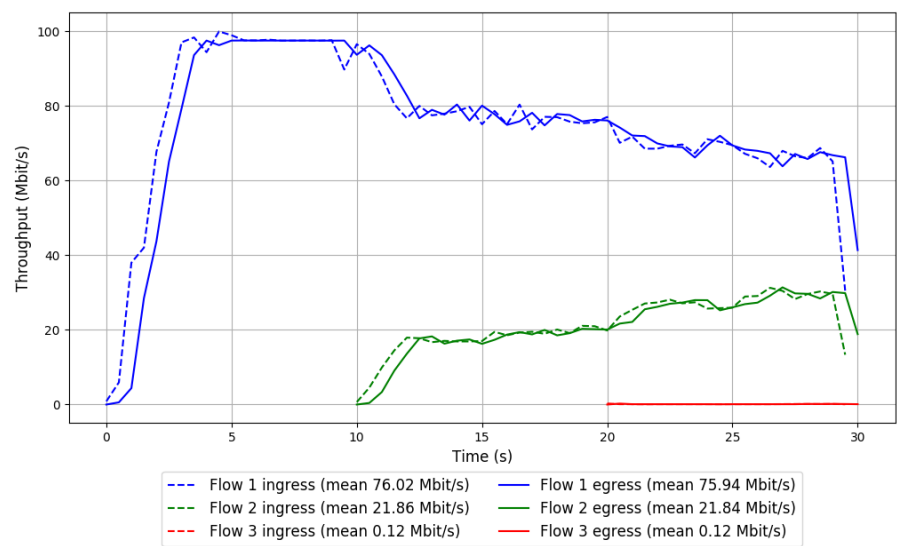
Run 2: Report of LEDBAT — Data Link
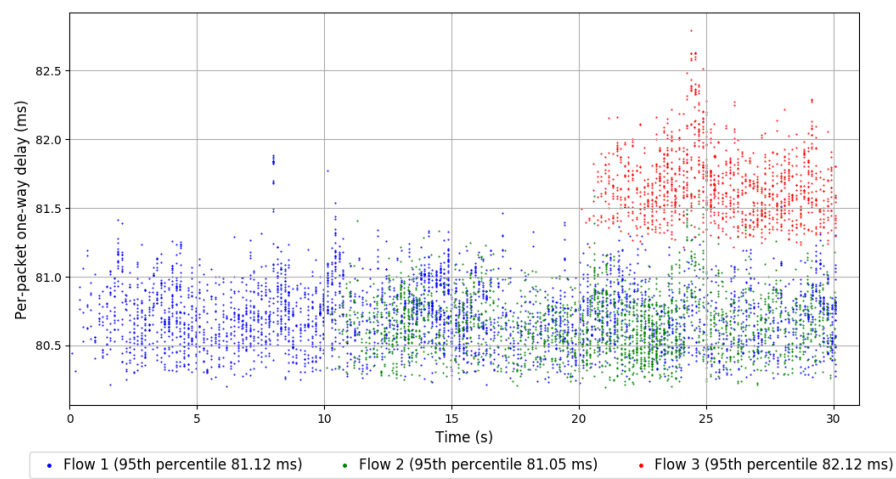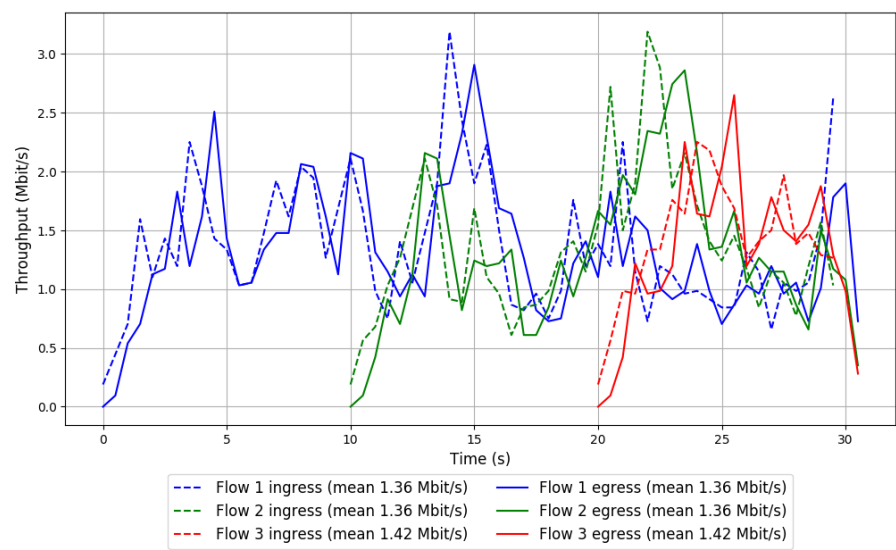
```
Run 3: Statistics of LEDBAT

Start at: 2020-02-18 02:21:33
End at: 2020-02-18 02:22:03
Local clock offset: -0.2 ms
Remote clock offset: -7.886 ms


# Below is generated by plot.py at 2020-02-18 03:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 82.049 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 82.052 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 82.038 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 82.054 ms
Loss rate: 0.24%
```
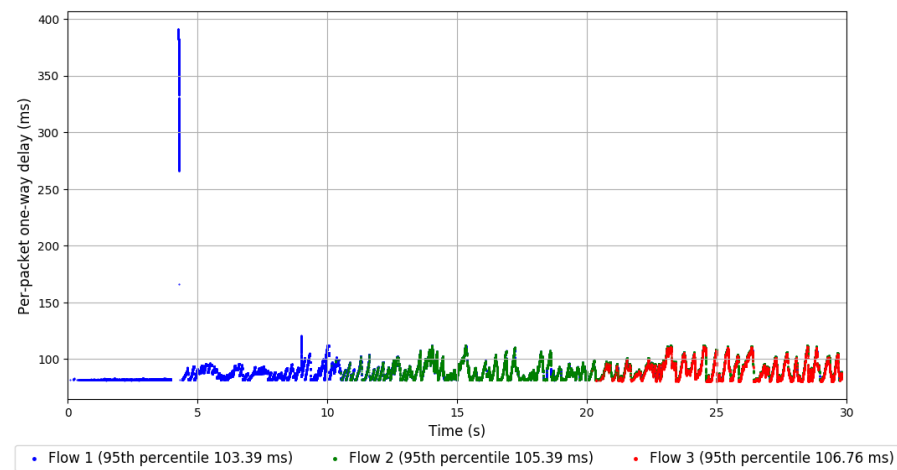
Run 3: Report of LEDBAT — Data Link
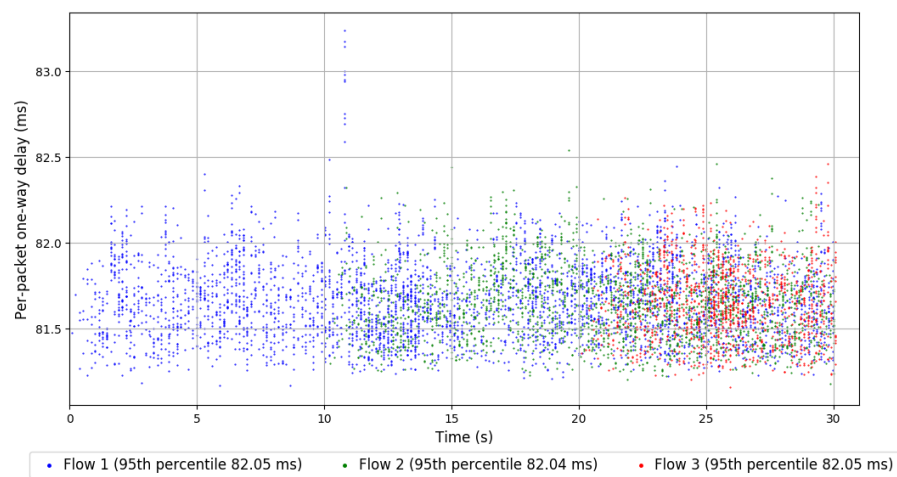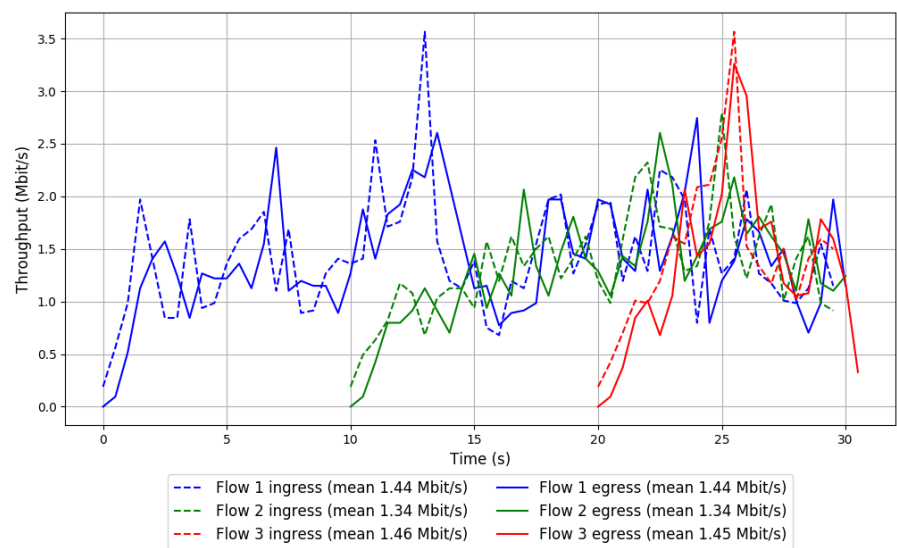
```
Run 4: Statistics of LEDBAT

Start at: 2020-02-18 02:51:40
End at: 2020-02-18 02:52:10
Local clock offset: -0.91 ms
Remote clock offset: -8.764 ms


# Below is generated by plot.py at 2020-02-18 03:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.84 Mbit/s
95th percentile per-packet one-way delay: 83.019 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 82.214 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 83.226 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 82.350 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link
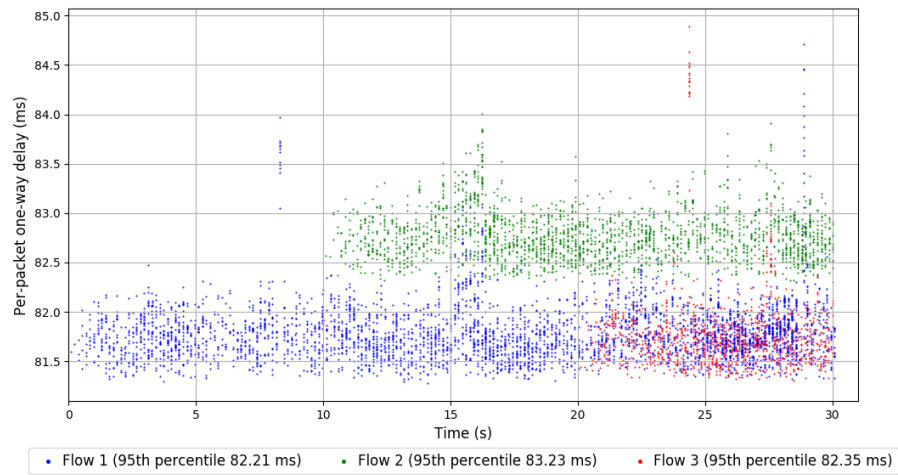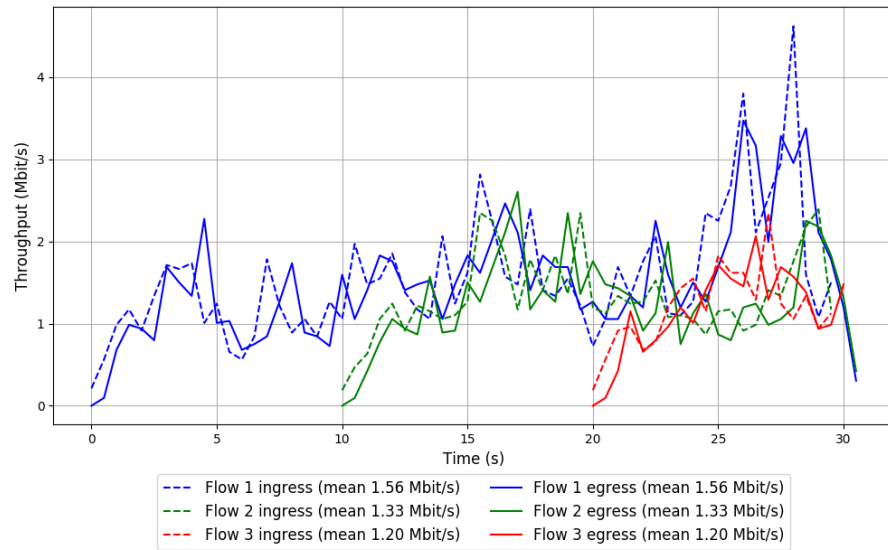
```
Run 5: Statistics of LEDBAT

Start at: 2020-02-18 03:21:43
End at: 2020-02-18 03:22:13
Local clock offset: -0.874 ms
Remote clock offset: -8.217 ms


# Below is generated by plot.py at 2020-02-18 03:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 82.892 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 82.914 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 82.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 82.023 ms
Loss rate: 0.08%
```
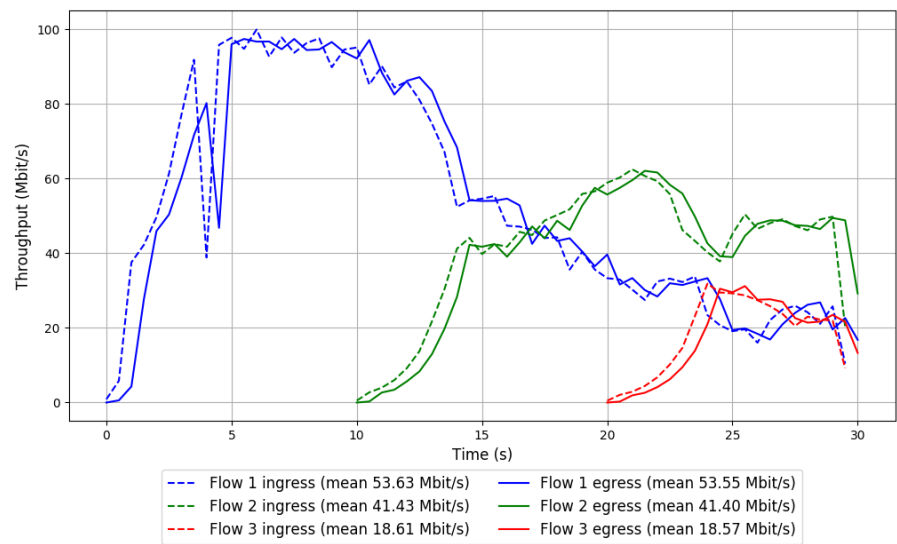
Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 1.49 Mbit/s) — — — Flow 1 egress (mean 1.49 Mbit/s)
Flow 2 ingress (mean 1.33 Mbit/s) — — — Flow 2 egress (mean 1.33 Mbit/s)
Flow 3 ingress (mean 1.48 Mbit/s) — — — Flow 3 egress (mean 1.48 Mbit/s)

Flow 1 (95th percentile 82.91 ms)   •   Flow 2 (95th percentile 82.92 ms)   •   Flow 3 (95th percentile 82.02 ms)
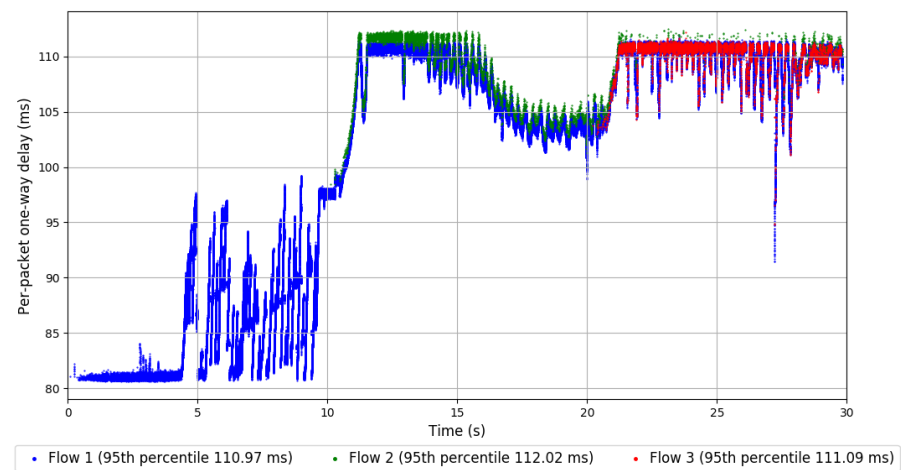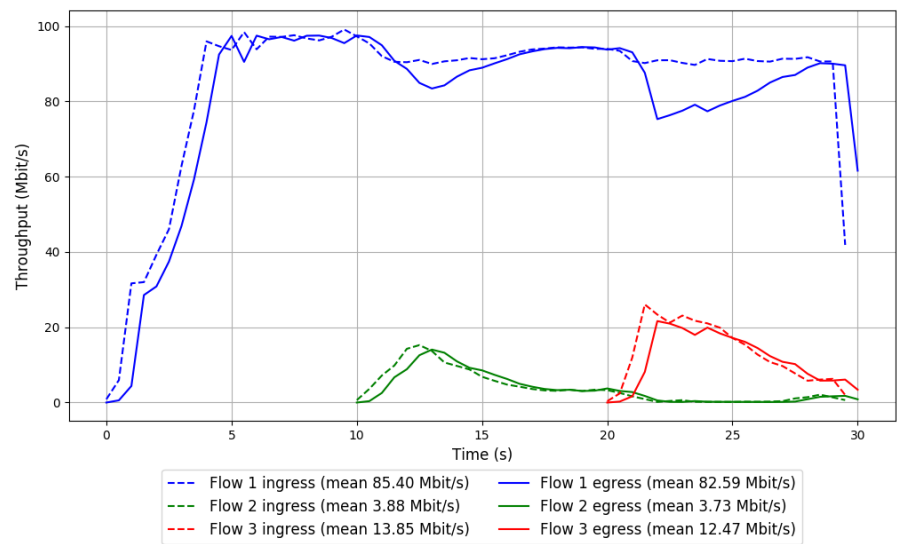
```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 01:37:17
End at: 2020-02-18 01:37:47
Local clock offset: 0.373 ms
Remote clock offset: -8.452 ms


# Below is generated by plot.py at 2020-02-18 03:57:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 101.375 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 75.94 Mbit/s
95th percentile per-packet one-way delay: 101.454 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 95.137 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 92.026 ms
Loss rate: 0.00%
```

Run 1: Report of Muses_DecisionTree — Data Link

- Flow 1 ingress (mean 76.02 Mbit/s)   —— Flow 1 egress (mean 75.94 Mbit/s)
- Flow 2 ingress (mean 21.86 Mbit/s)   —— Flow 2 egress (mean 21.84 Mbit/s)
- Flow 3 ingress (mean 0.12 Mbit/s)   —— Flow 3 egress (mean 0.12 Mbit/s)

- Flow 1 (95th percentile 101.45 ms)   • Flow 2 (95th percentile 95.14 ms)   • Flow 3 (95th percentile 92.03 ms)

```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 02:07:27
End at: 2020-02-18 02:07:57
Local clock offset: 0.112 ms
Remote clock offset: -7.915 ms


# Below is generated by plot.py at 2020-02-18 03:57:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 101.687 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 80.69 Mbit/s
95th percentile per-packet one-way delay: 101.694 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 101.643 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.26 Mbit/s
95th percentile per-packet one-way delay: 101.120 ms
Loss rate: 0.08%
```
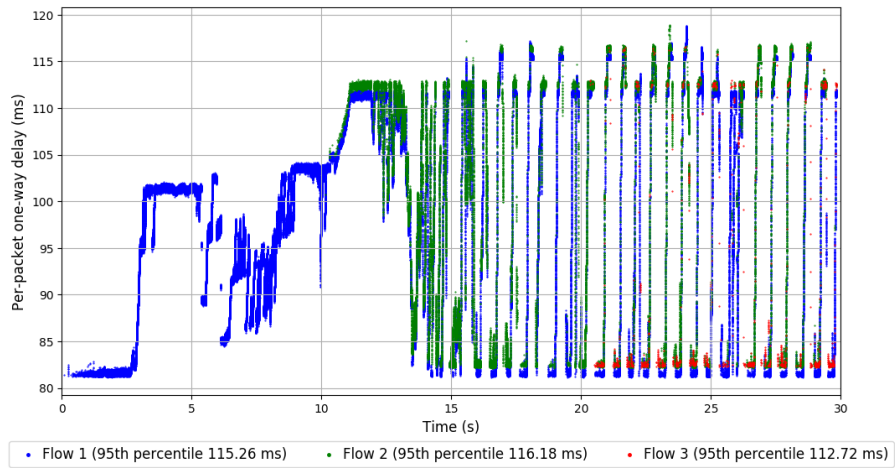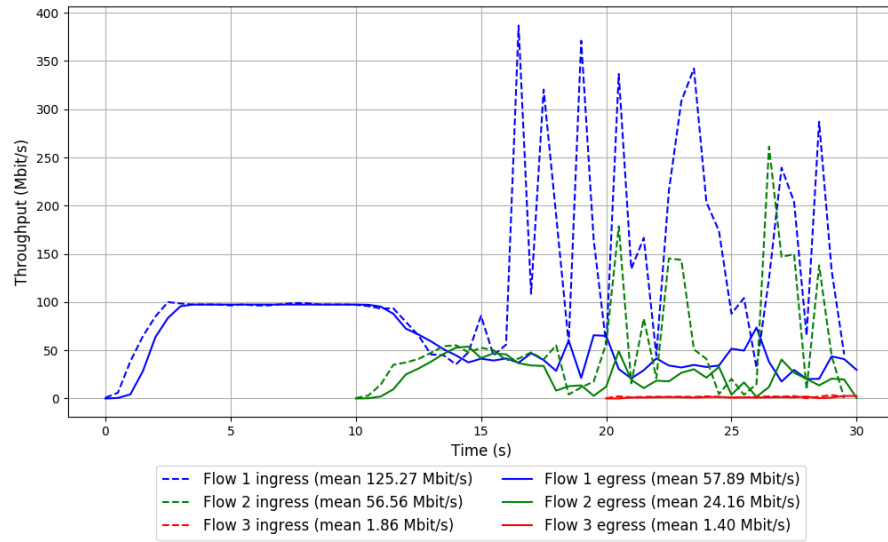
Run 2: Report of Muses_DecisionTree — Data Link
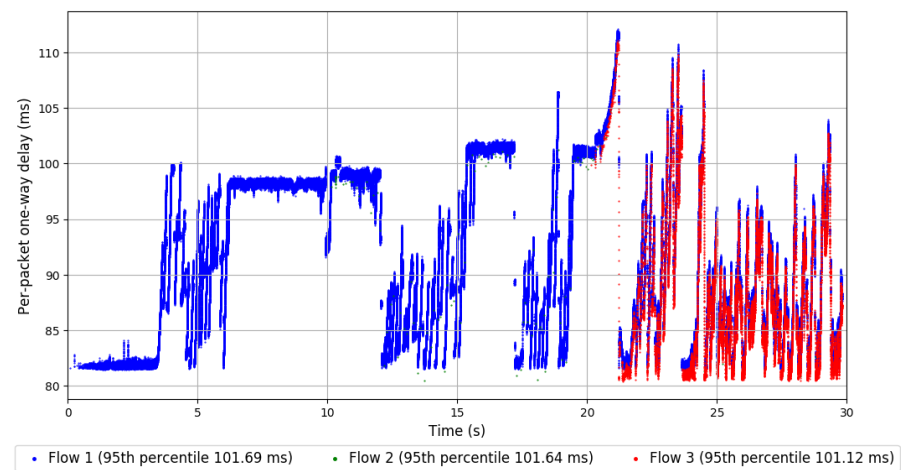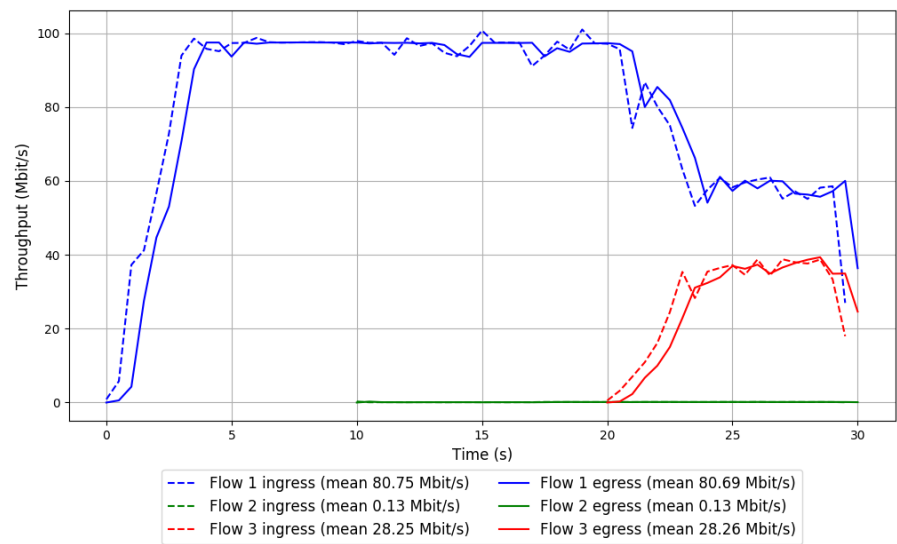
```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 02:37:45
End at: 2020-02-18 02:38:15
Local clock offset: -0.131 ms
Remote clock offset: -8.807 ms


# Below is generated by plot.py at 2020-02-18 03:57:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.93 Mbit/s
95th percentile per-packet one-way delay: 104.706 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 103.388 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 41.40 Mbit/s
95th percentile per-packet one-way delay: 105.394 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 18.57 Mbit/s
95th percentile per-packet one-way delay: 106.761 ms
Loss rate: 0.24%
```

Run 3: Report of Muses_DecisionTree — Data Link



- - - Flow 1 ingress (mean 53.63 Mbit/s) —— Flow 1 egress (mean 53.55 Mbit/s)
- - - Flow 2 ingress (mean 41.43 Mbit/s) —— Flow 2 egress (mean 41.40 Mbit/s)
- - - Flow 3 ingress (mean 18.61 Mbit/s) —— Flow 3 egress (mean 18.57 Mbit/s)



- Flow 1 (95th percentile 103.39 ms)   • Flow 2 (95th percentile 105.39 ms)   • Flow 3 (95th percentile 106.76 ms)
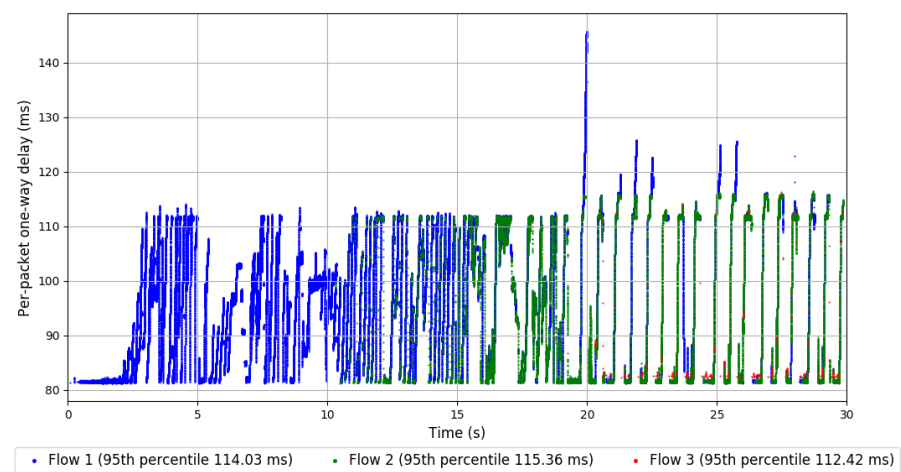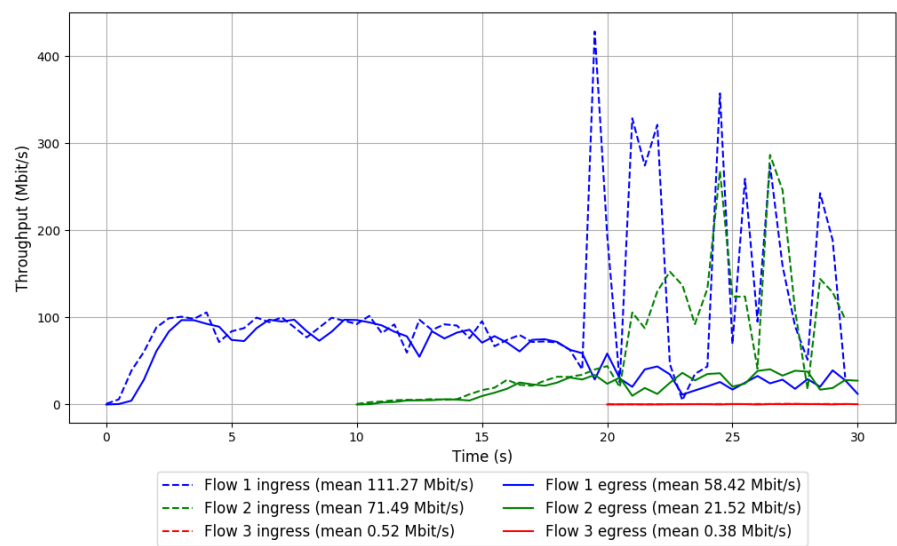
```
Run 4: Statistics of Muses_DecisionTree

Start at: 2020-02-18 03:07:50
End at: 2020-02-18 03:08:20
Local clock offset: -0.913 ms
Remote clock offset: -9.079 ms

Below is generated by plot.py at 2020-02-18 03:57:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 103.322 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 103.760 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 26.41 Mbit/s
95th percentile per-packet one-way delay: 101.557 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 12.62 Mbit/s
95th percentile per-packet one-way delay: 97.421 ms
Loss rate: 0.00%
```

Run 4: Report of Muses_DecisionTree — Data Link
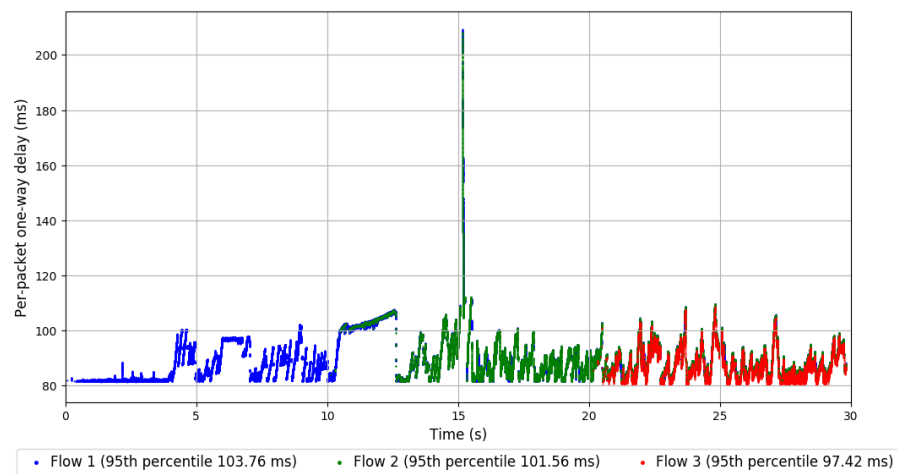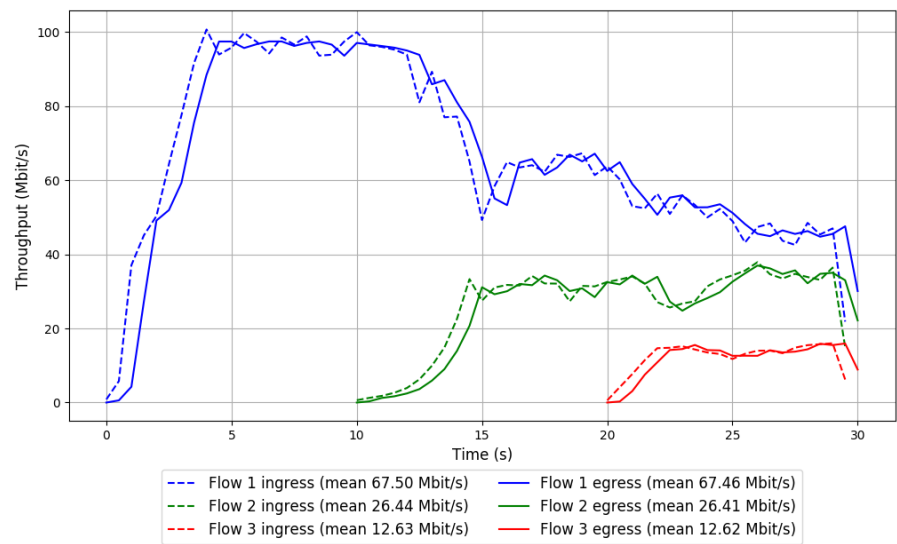
```
Run 5: Statistics of Muses_DecisionTree

Start at: 2020-02-18 03:37:51
End at: 2020-02-18 03:38:21
Local clock offset: -0.87 ms
Remote clock offset: -8.644 ms

Below is generated by plot.py at 2020-02-18 03:58:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.07 Mbit/s
95th percentile per-packet one-way delay: 111.039 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 110.966 ms
Loss rate: 3.20%
-- Flow 2:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 112.018 ms
Loss rate: 3.86%
-- Flow 3:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 111.088 ms
Loss rate: 9.87%
```
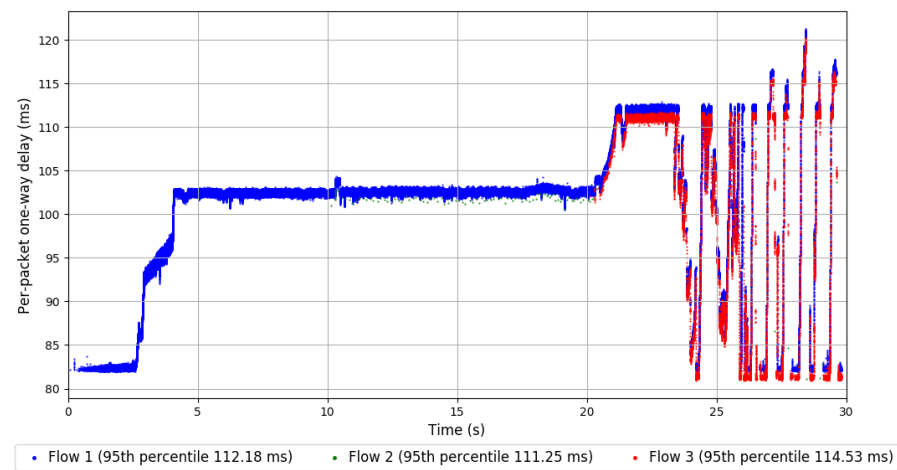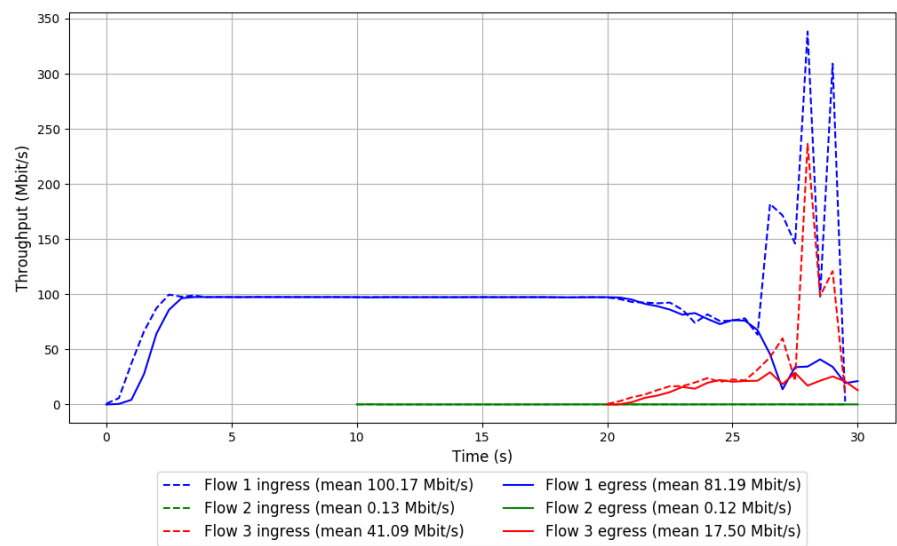
Run 5: Report of Muses_DecisionTree — Data Link



Flow 1 ingress (mean 85.40 Mbit/s)    Flow 1 egress (mean 82.59 Mbit/s)
Flow 2 ingress (mean 3.88 Mbit/s)    Flow 2 egress (mean 3.73 Mbit/s)
Flow 3 ingress (mean 13.85 Mbit/s)    Flow 3 egress (mean 12.47 Mbit/s)



Flow 1 (95th percentile 110.97 ms)    Flow 2 (95th percentile 112.02 ms)    Flow 3 (95th percentile 111.09 ms)

Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 01:25:55
End at: 2020-02-18 01:26:25
Local clock offset: -0.905 ms
Remote clock offset: -8.778 ms


# Below is generated by plot.py at 2020-02-18 03:59:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.33 Mbit/s
95th percentile per-packet one-way delay: 115.297 ms
Loss rate: 54.44%
-- Flow 1:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 115.264 ms
Loss rate: 53.74%
-- Flow 2:
Average throughput: 24.16 Mbit/s
95th percentile per-packet one-way delay: 116.179 ms
Loss rate: 57.27%
-- Flow 3:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 112.720 ms
Loss rate: 24.30%
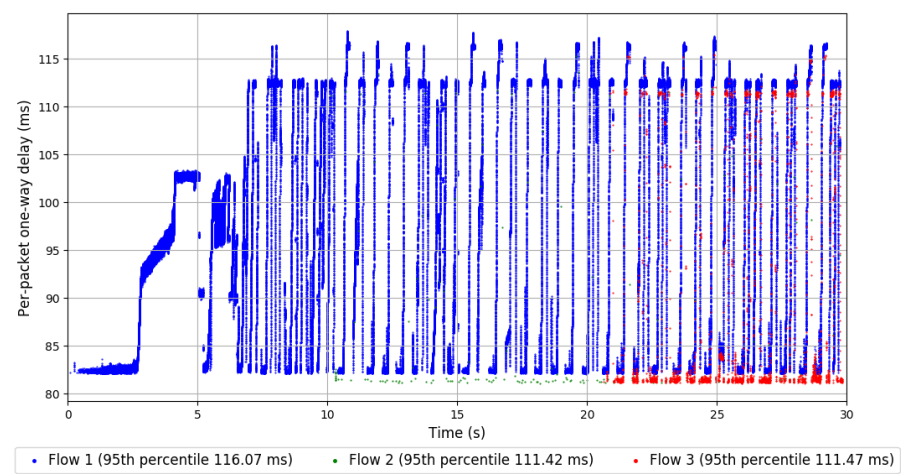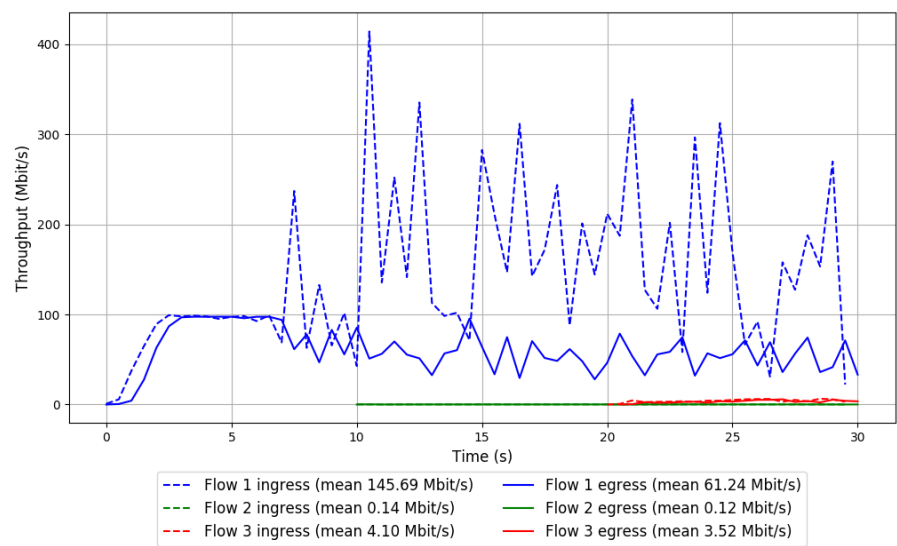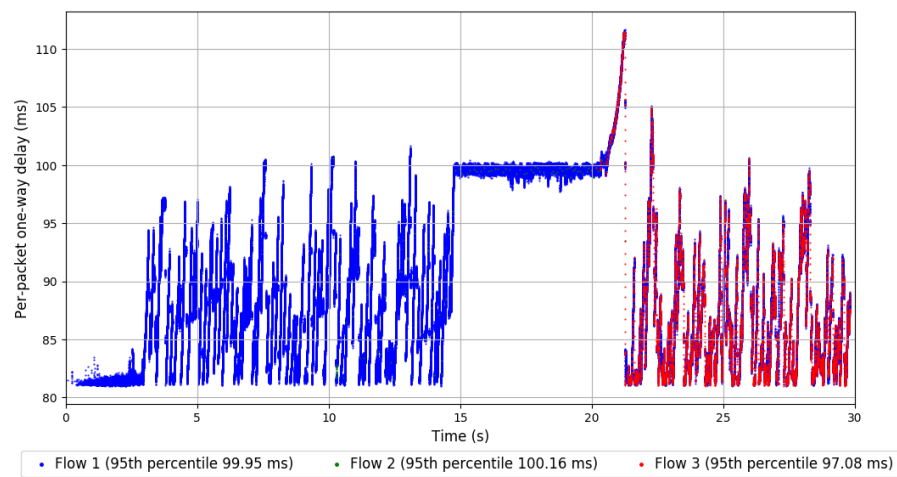
Run 1: Report of Muses_DecisionTreeH0 — Data Link



Flow 1 ingress (mean 125.27 Mbit/s) --- Flow 1 egress (mean 57.89 Mbit/s)
Flow 2 ingress (mean 56.56 Mbit/s) --- Flow 2 egress (mean 24.16 Mbit/s)
Flow 3 ingress (mean 1.86 Mbit/s) --- Flow 3 egress (mean 1.40 Mbit/s)



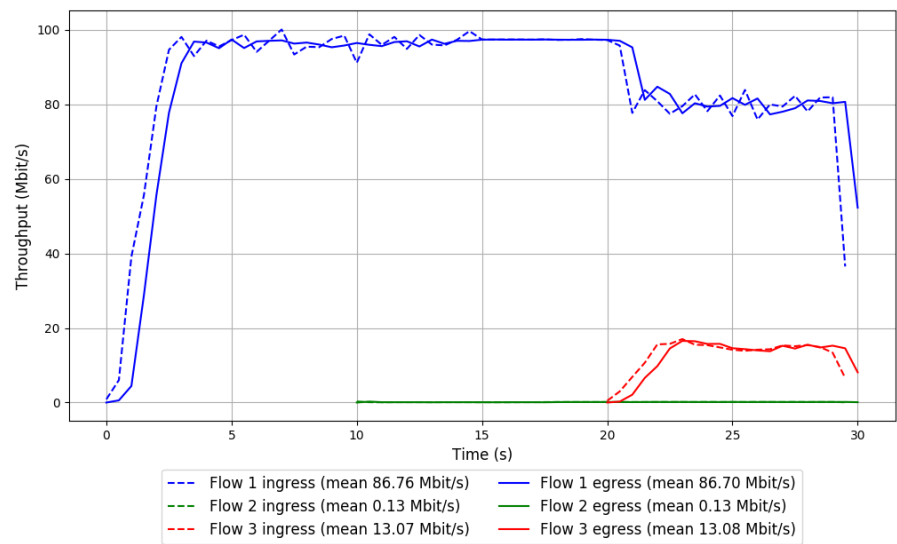Flow 1 (95th percentile 115.26 ms) • Flow 2 (95th percentile 116.18 ms) • Flow 3 (95th percentile 112.72 ms)

```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 01:56:07
End at: 2020-02-18 01:56:37
Local clock offset: 0.799 ms
Remote clock offset: -8.201 ms


# Below is generated by plot.py at 2020-02-18 03:59:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.42 Mbit/s
95th percentile per-packet one-way delay: 111.567 ms
Loss rate: 22.22%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 111.677 ms
Loss rate: 3.83%
-- Flow 2:
Average throughput: 69.61 Mbit/s
95th percentile per-packet one-way delay: 110.819 ms
Loss rate: 15.91%
-- Flow 3:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 112.573 ms
Loss rate: 45.61%
```

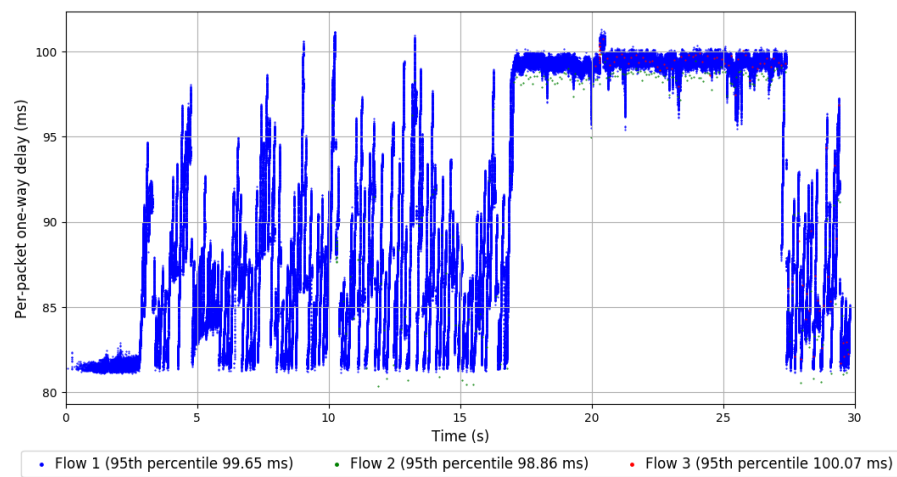Run 2: Report of Muses_DecisionTreeH0 — Data Link
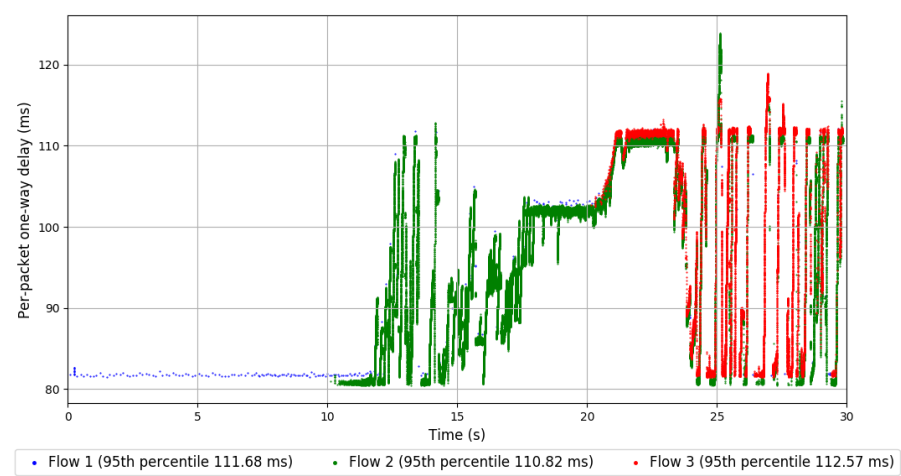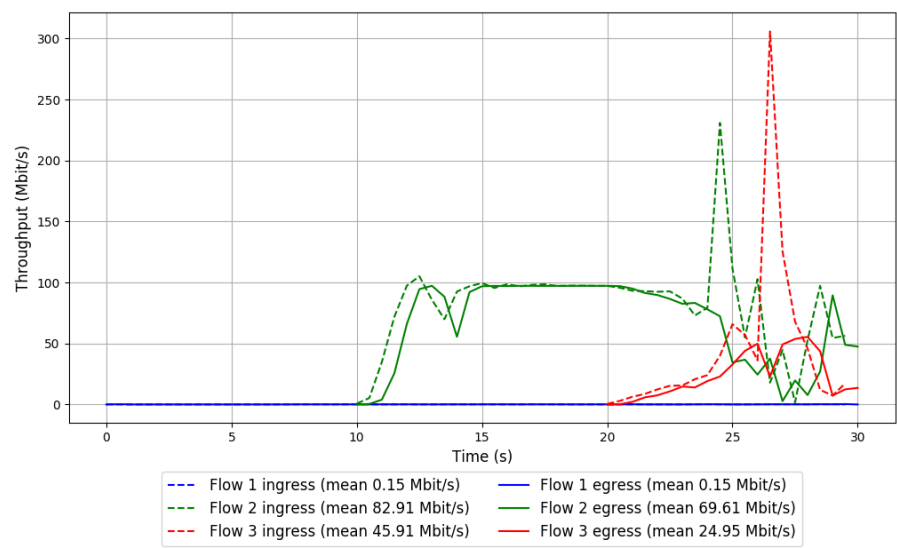
Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2020-02-18 02:26:24
End at: 2020-02-18 02:26:54
Local clock offset: -0.964 ms
Remote clock offset: -7.965 ms

Below is generated by plot.py at 2020-02-18 03:59:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.80 Mbit/s
95th percentile per-packet one-way delay: 115.214 ms
Loss rate: 54.11%
-- Flow 1:
Average throughput: 58.42 Mbit/s
95th percentile per-packet one-way delay: 114.032 ms
Loss rate: 47.44%
-- Flow 2:
Average throughput: 21.52 Mbit/s
95th percentile per-packet one-way delay: 115.355 ms
Loss rate: 69.87%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 112.416 ms
Loss rate: 27.94%
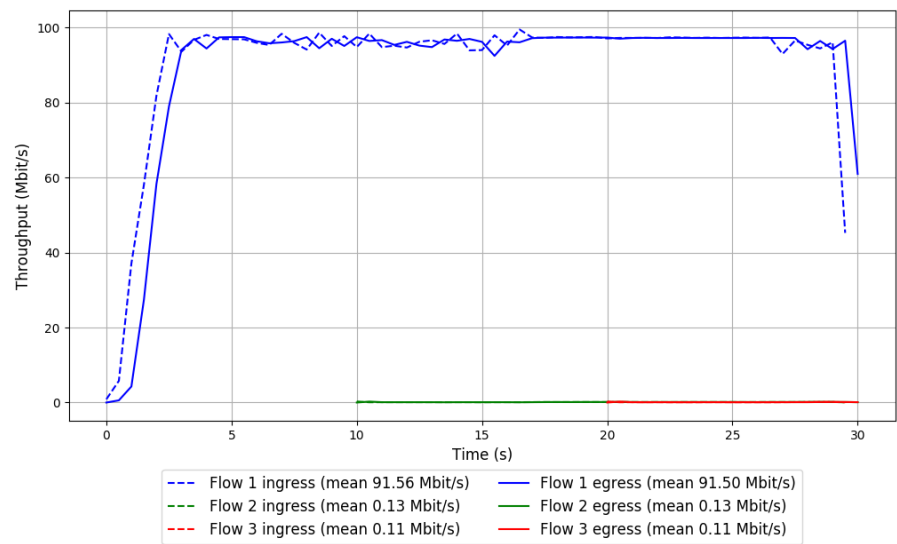
Run 3: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 111.27 Mbit/s) ---- Flow 1 egress (mean 58.42 Mbit/s) ----
Flow 2 ingress (mean 71.49 Mbit/s) ---- Flow 2 egress (mean 21.52 Mbit/s) ----
Flow 3 ingress (mean 0.52 Mbit/s) ---- Flow 3 egress (mean 0.38 Mbit/s) ----

Flow 1 (95th percentile 114.03 ms)   Flow 2 (95th percentile 115.36 ms)   Flow 3 (95th percentile 112.42 ms)
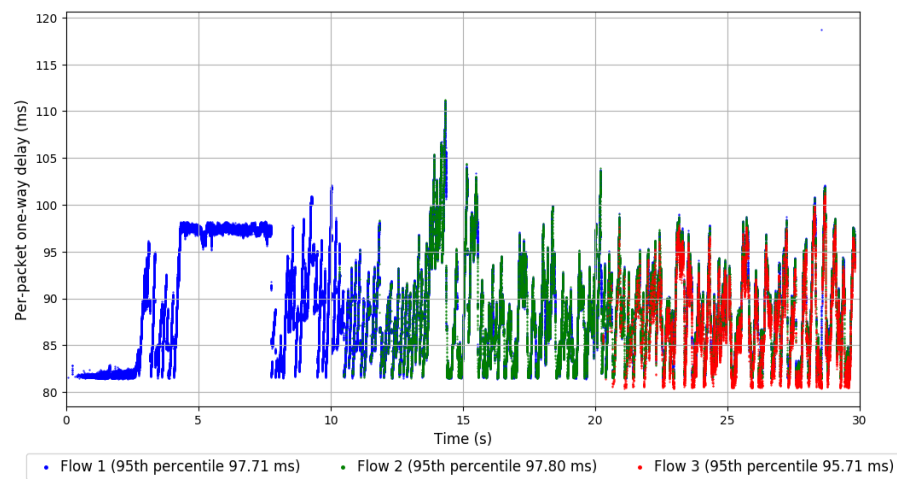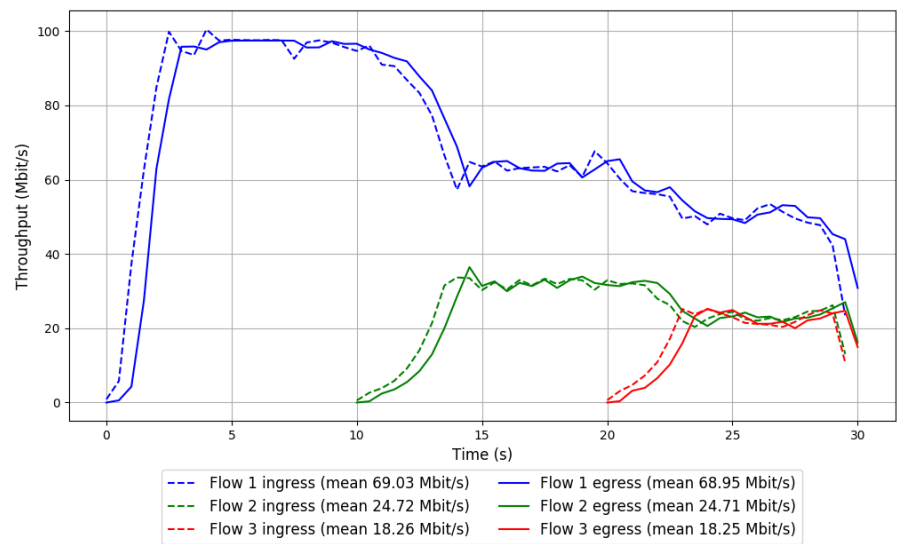
```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 02:56:31
End at: 2020-02-18 02:57:01
Local clock offset: -0.86 ms
Remote clock offset: -9.1 ms


# Below is generated by plot.py at 2020-02-18 03:59:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 112.179 ms
Loss rate: 23.48%
-- Flow 1:
Average throughput: 81.19 Mbit/s
95th percentile per-packet one-way delay: 112.177 ms
Loss rate: 18.95%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 111.254 ms
Loss rate: 7.04%
-- Flow 3:
Average throughput: 17.50 Mbit/s
95th percentile per-packet one-way delay: 114.535 ms
Loss rate: 57.50%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 100.17 Mbit/s) —— Flow 1 egress (mean 81.19 Mbit/s)
Flow 2 ingress (mean 0.13 Mbit/s) —— Flow 2 egress (mean 0.12 Mbit/s)
Flow 3 ingress (mean 41.09 Mbit/s) —— Flow 3 egress (mean 17.50 Mbit/s)

Flow 1 (95th percentile 112.18 ms)   Flow 2 (95th percentile 111.25 ms)   Flow 3 (95th percentile 114.53 ms)
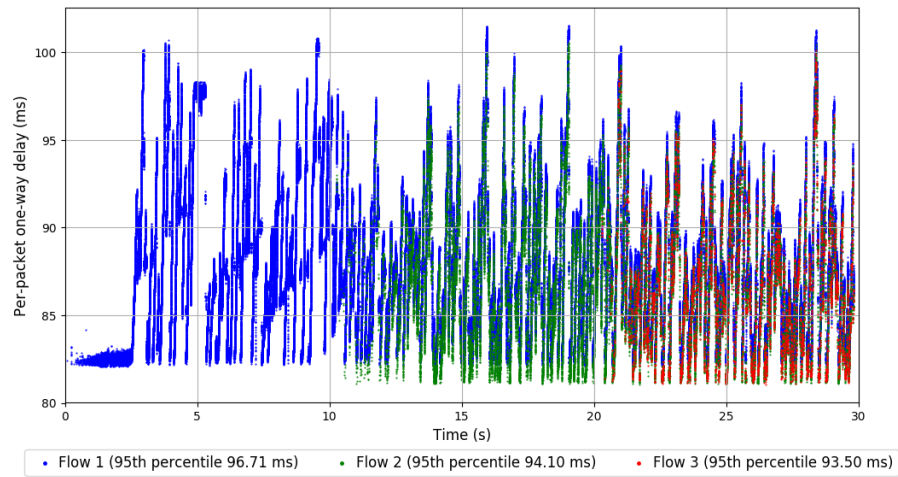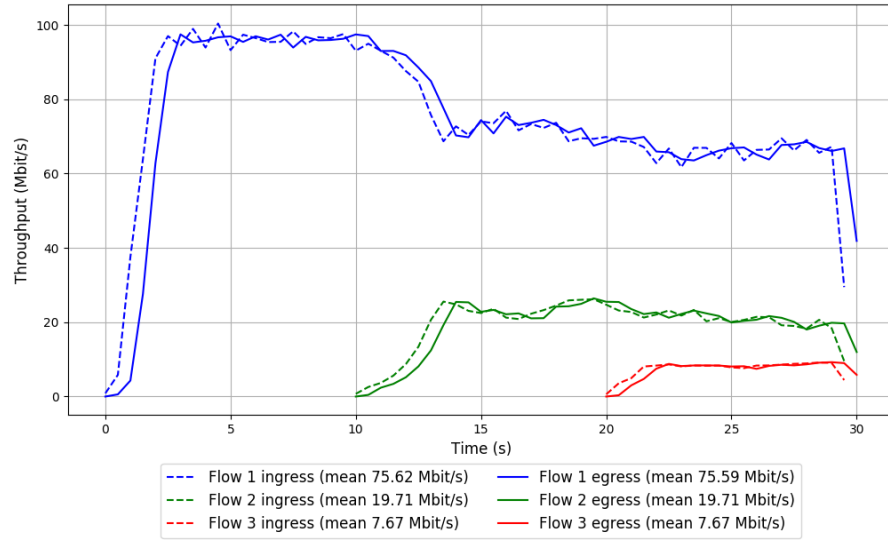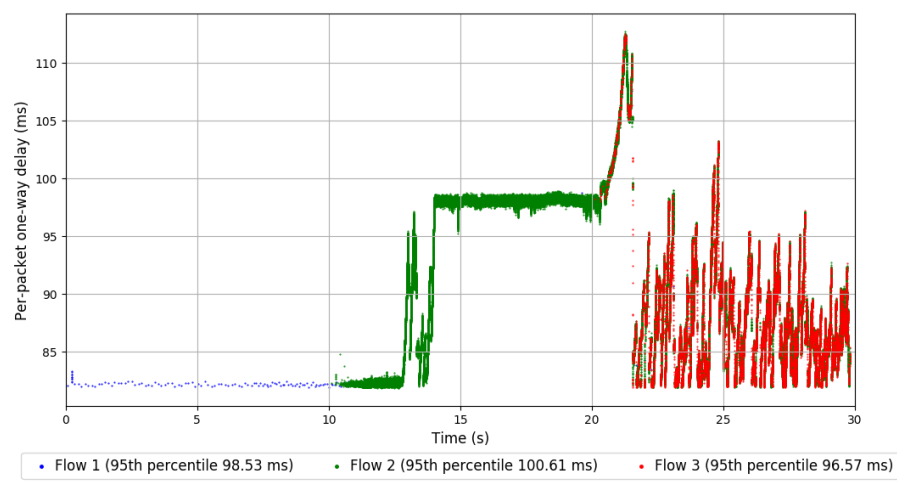
132

```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 03:26:34
End at: 2020-02-18 03:27:04
Local clock offset: -0.957 ms
Remote clock offset: -8.266 ms


# Below is generated by plot.py at 2020-02-18 03:59:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.24 Mbit/s
95th percentile per-packet one-way delay: 116.055 ms
Loss rate: 57.54%
-- Flow 1:
Average throughput: 61.24 Mbit/s
95th percentile per-packet one-way delay: 116.070 ms
Loss rate: 57.93%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 111.424 ms
Loss rate: 15.48%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 111.474 ms
Loss rate: 18.67%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 145.69 Mbit/s) — Flow 1 egress (mean 61.24 Mbit/s)
Flow 2 ingress (mean 0.14 Mbit/s) — Flow 2 egress (mean 0.12 Mbit/s)
Flow 3 ingress (mean 4.10 Mbit/s) — Flow 3 egress (mean 3.52 Mbit/s)

Flow 1 (95th percentile 116.07 ms) · Flow 2 (95th percentile 111.42 ms) · Flow 3 (95th percentile 111.47 ms)
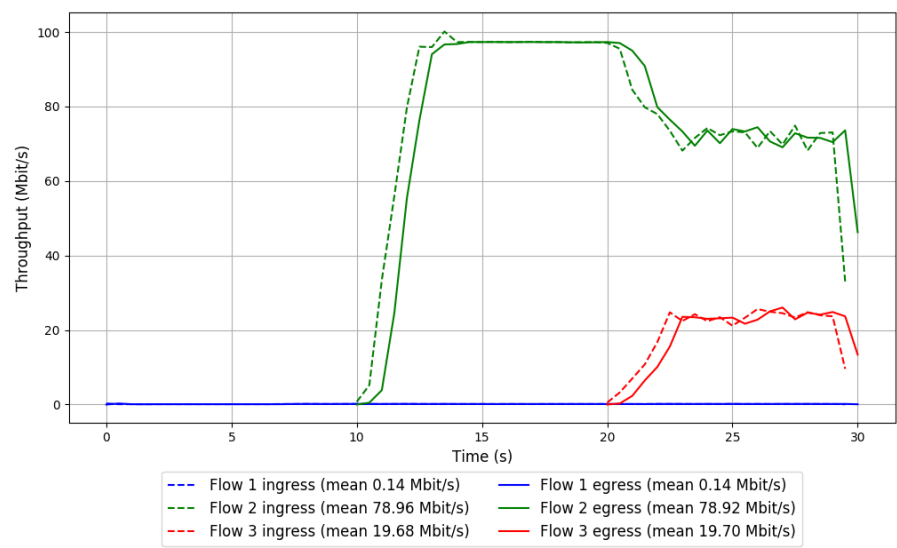
134

```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 01:18:34
End at: 2020-02-18 01:19:04
Local clock offset: -0.885 ms
Remote clock offset: -9.116 ms


# Below is generated by plot.py at 2020-02-18 03:59:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 99.945 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 86.70 Mbit/s
95th percentile per-packet one-way delay: 99.948 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 100.160 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.08 Mbit/s
95th percentile per-packet one-way delay: 97.078 ms
Loss rate: 0.03%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

- - - Flow 1 ingress (mean 86.76 Mbit/s) —— Flow 1 egress (mean 86.70 Mbit/s)
- - - Flow 2 ingress (mean 0.13 Mbit/s) —— Flow 2 egress (mean 0.13 Mbit/s)
- - - Flow 3 ingress (mean 13.07 Mbit/s) —— Flow 3 egress (mean 13.08 Mbit/s)

• Flow 1 (95th percentile 99.95 ms)   • Flow 2 (95th percentile 100.16 ms)   • Flow 3 (95th percentile 97.08 ms)

```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 01:48:46
End at: 2020-02-18 01:49:16
Local clock offset: 0.75 ms
Remote clock offset: -8.539 ms


# Below is generated by plot.py at 2020-02-18 03:59:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 99.654 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 99.654 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 98.863 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 100.072 ms
Loss rate: 0.00%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

- Flow 1 ingress (mean 91.56 Mbit/s)   — Flow 1 egress (mean 91.50 Mbit/s)
- Flow 2 ingress (mean 0.13 Mbit/s)   — Flow 2 egress (mean 0.13 Mbit/s)
- Flow 3 ingress (mean 0.11 Mbit/s)   — Flow 3 egress (mean 0.11 Mbit/s)

- Flow 1 (95th percentile 99.65 ms)   · Flow 2 (95th percentile 98.86 ms)   · Flow 3 (95th percentile 100.07 ms)

```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 02:19:03
End at: 2020-02-18 02:19:33
Local clock offset: -0.147 ms
Remote clock offset: -7.684 ms


# Below is generated by plot.py at 2020-02-18 03:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.24 Mbit/s
95th percentile per-packet one-way delay: 97.694 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 68.95 Mbit/s
95th percentile per-packet one-way delay: 97.707 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 97.804 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 18.25 Mbit/s
95th percentile per-packet one-way delay: 95.708 ms
Loss rate: 0.03%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 02:49:10
End at: 2020-02-18 02:49:40
Local clock offset: -0.849 ms
Remote clock offset: -8.877 ms


# Below is generated by plot.py at 2020-02-18 03:59:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 96.278 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 75.59 Mbit/s
95th percentile per-packet one-way delay: 96.707 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 19.71 Mbit/s
95th percentile per-packet one-way delay: 94.100 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 93.504 ms
Loss rate: 0.05%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

- - - Flow 1 ingress (mean 75.62 Mbit/s) —— Flow 1 egress (mean 75.59 Mbit/s)
- - - Flow 2 ingress (mean 19.71 Mbit/s) —— Flow 2 egress (mean 19.71 Mbit/s)
- - - Flow 3 ingress (mean 7.67 Mbit/s) —— Flow 3 egress (mean 7.67 Mbit/s)

• Flow 1 (95th percentile 96.71 ms)   • Flow 2 (95th percentile 94.10 ms)   • Flow 3 (95th percentile 93.50 ms)

Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2020-02-18 03:19:15
End at: 2020-02-18 03:19:45
Local clock offset: -0.875 ms
Remote clock offset: -8.441 ms

Below is generated by plot.py at 2020-02-18 03:59:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.83 Mbit/s
95th percentile per-packet one-way delay: 100.379 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 98.533 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 78.92 Mbit/s
95th percentile per-packet one-way delay: 100.613 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 96.571 ms
Loss rate: 0.03%

Run 5: Report of Muses_DecisionTreeR0 — Data Link

- Flow 1 ingress (mean 0.14 Mbit/s)
- Flow 1 egress (mean 0.14 Mbit/s)
- Flow 2 ingress (mean 78.96 Mbit/s)
- Flow 2 egress (mean 78.92 Mbit/s)
- Flow 3 ingress (mean 19.68 Mbit/s)
- Flow 3 egress (mean 19.70 Mbit/s)

- Flow 1 (95th percentile 98.53 ms)
- Flow 2 (95th percentile 100.61 ms)
- Flow 3 (95th percentile 96.57 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2020-02-18 01:33:32
End at: 2020-02-18 01:34:02
Local clock offset: -0.461 ms
Remote clock offset: -8.671 ms


# Below is generated by plot.py at 2020-02-18 04:00:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 112.469 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 78.98 Mbit/s
95th percentile per-packet one-way delay: 112.302 ms
Loss rate: 3.16%
-- Flow 2:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 113.357 ms
Loss rate: 3.39%
-- Flow 3:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 113.431 ms
Loss rate: 5.43%
```

Run 1: Report of PCC-Allegro — Data Link
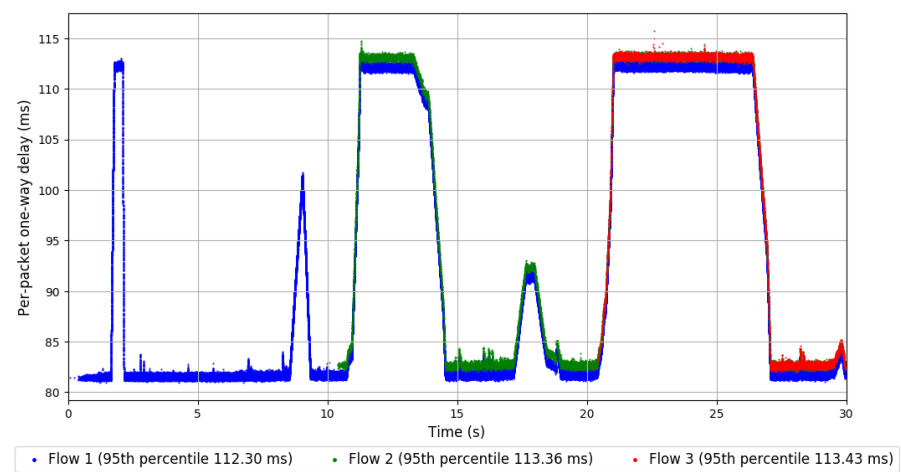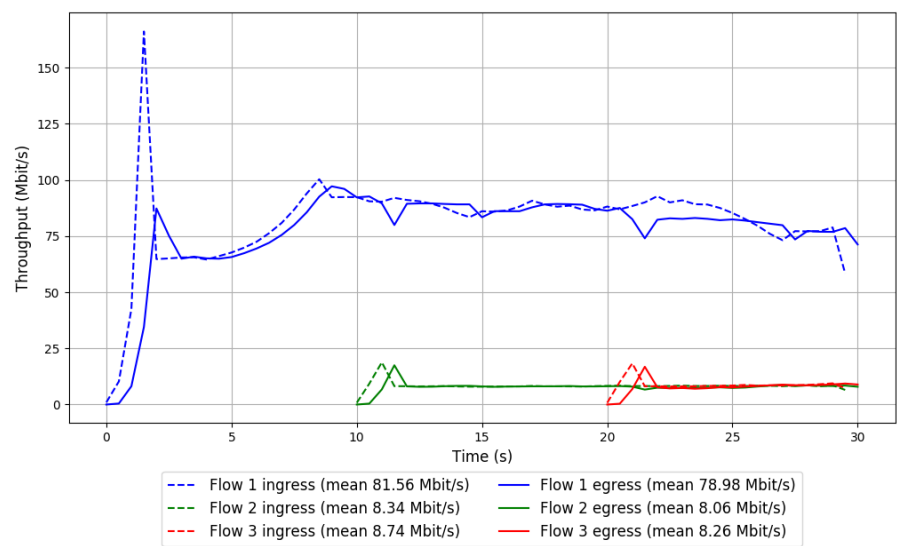
```
Run 2: Statistics of PCC-Allegro

Start at: 2020-02-18 02:03:40
End at: 2020-02-18 02:04:10
Local clock offset: 0.294 ms
Remote clock offset: -8.076 ms


# Below is generated by plot.py at 2020-02-18 04:00:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 112.478 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 78.28 Mbit/s
95th percentile per-packet one-way delay: 112.492 ms
Loss rate: 2.48%
-- Flow 2:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 111.581 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 111.563 ms
Loss rate: 2.03%
```

Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 80.28 Mbit/s) --- Flow 1 egress (mean 78.28 Mbit/s)
Flow 2 ingress (mean 7.76 Mbit/s) --- Flow 2 egress (mean 7.59 Mbit/s)
Flow 3 ingress (mean 8.47 Mbit/s) --- Flow 3 egress (mean 8.29 Mbit/s)

Flow 1 (95th percentile 112.49 ms) · Flow 2 (95th percentile 111.58 ms) · Flow 3 (95th percentile 111.56 ms)
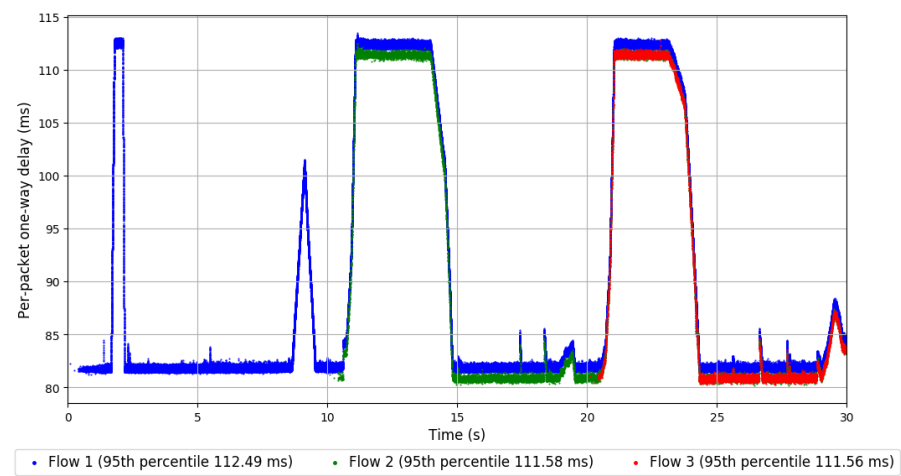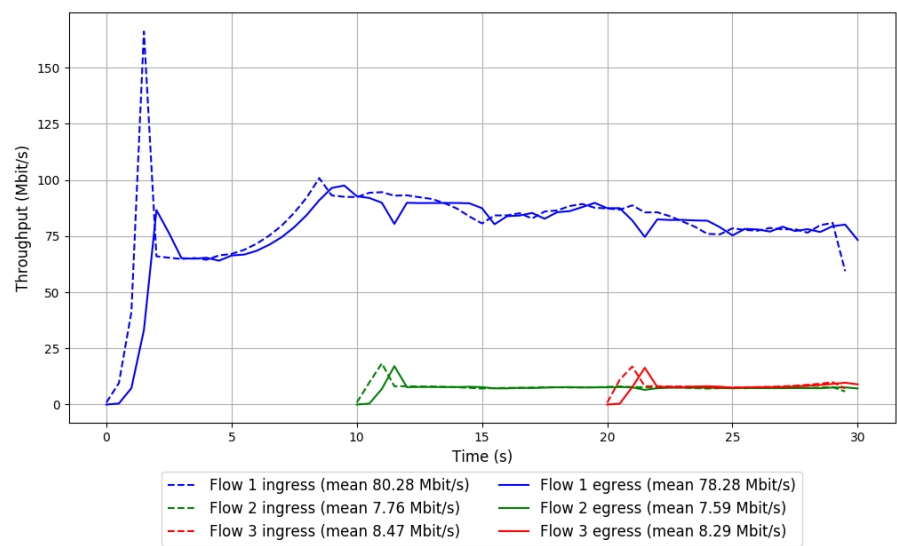
```
Run 3: Statistics of PCC-Allegro

Start at: 2020-02-18 02:34:00
End at: 2020-02-18 02:34:30
Local clock offset: -0.967 ms
Remote clock offset: -8.531 ms


# Below is generated by plot.py at 2020-02-18 04:00:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 112.474 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 78.96 Mbit/s
95th percentile per-packet one-way delay: 112.361 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 113.415 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 113.450 ms
Loss rate: 2.90%
```

Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 81.15 Mbit/s) --- Flow 1 egress (mean 78.96 Mbit/s)
Flow 2 ingress (mean 9.12 Mbit/s) --- Flow 2 egress (mean 8.91 Mbit/s)
Flow 3 ingress (mean 8.70 Mbit/s) --- Flow 3 egress (mean 8.45 Mbit/s)

Flow 1 (95th percentile 112.36 ms) · Flow 2 (95th percentile 113.42 ms) · Flow 3 (95th percentile 113.45 ms)
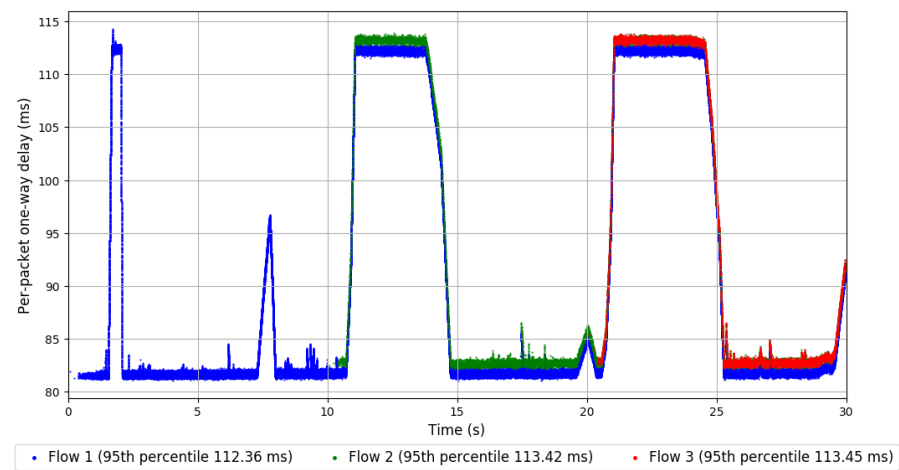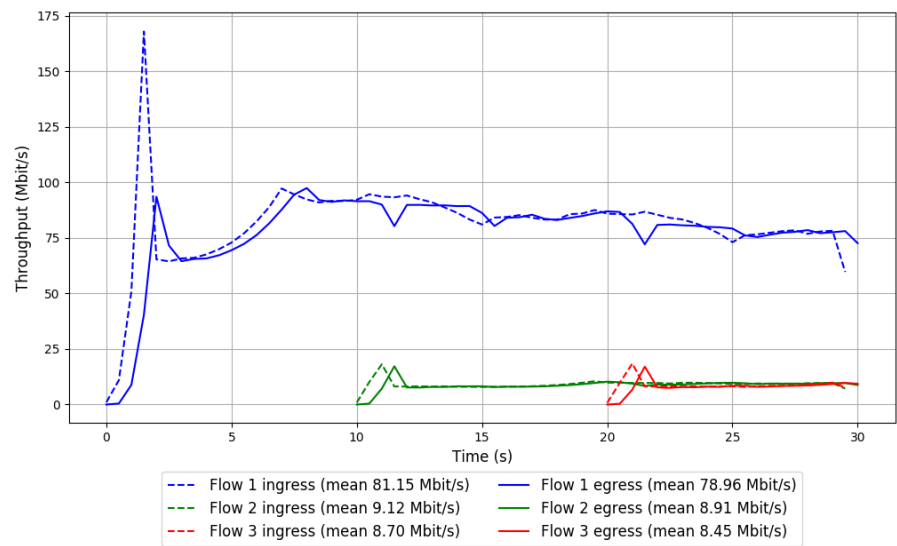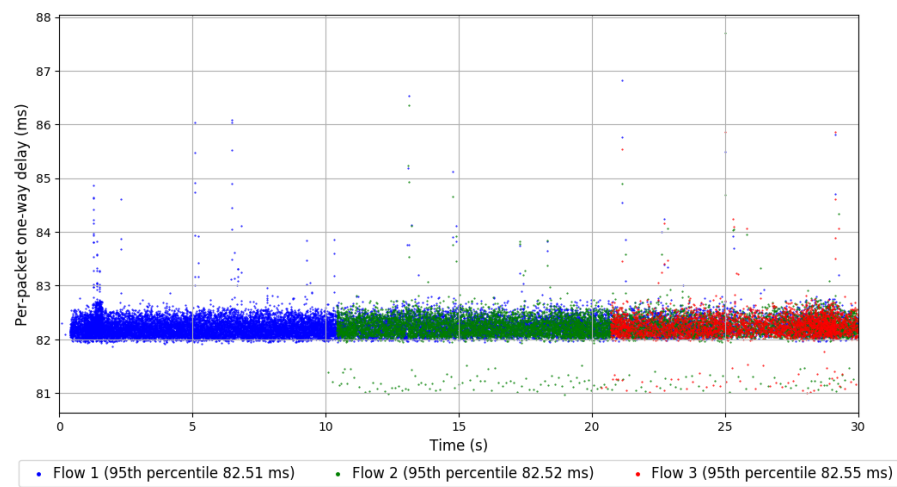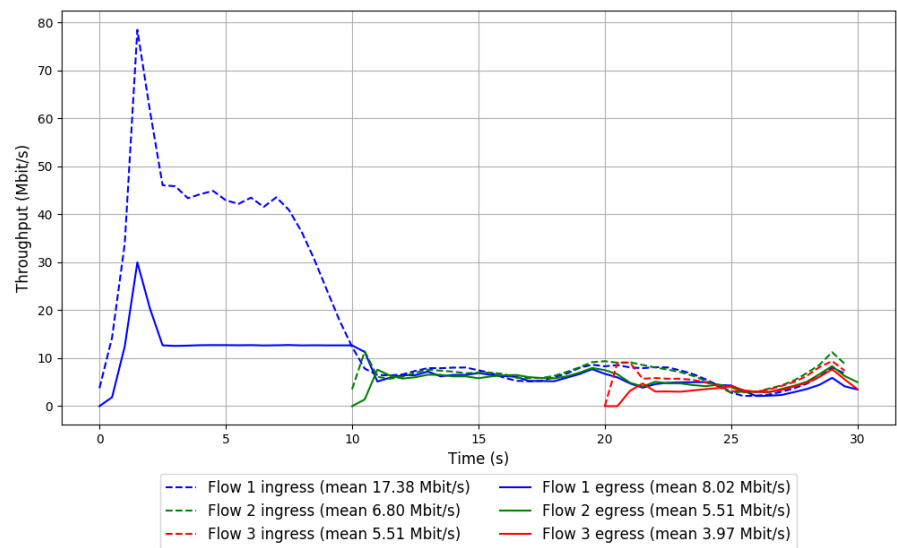
```
Run 4: Statistics of PCC-Allegro

Start at: 2020-02-18 03:04:05
End at: 2020-02-18 03:04:35
Local clock offset: -0.854 ms
Remote clock offset: -8.743 ms


# Below is generated by plot.py at 2020-02-18 04:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.29 Mbit/s
95th percentile per-packet one-way delay: 113.129 ms
Loss rate: 5.03%
-- Flow 1:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 113.152 ms
Loss rate: 4.87%
-- Flow 2:
Average throughput: 14.87 Mbit/s
95th percentile per-packet one-way delay: 112.211 ms
Loss rate: 5.39%
-- Flow 3:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 112.210 ms
Loss rate: 6.44%
```

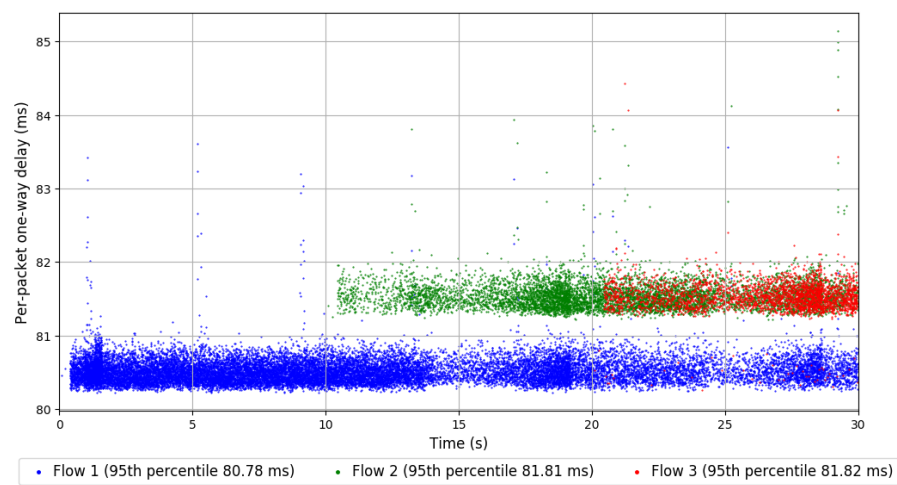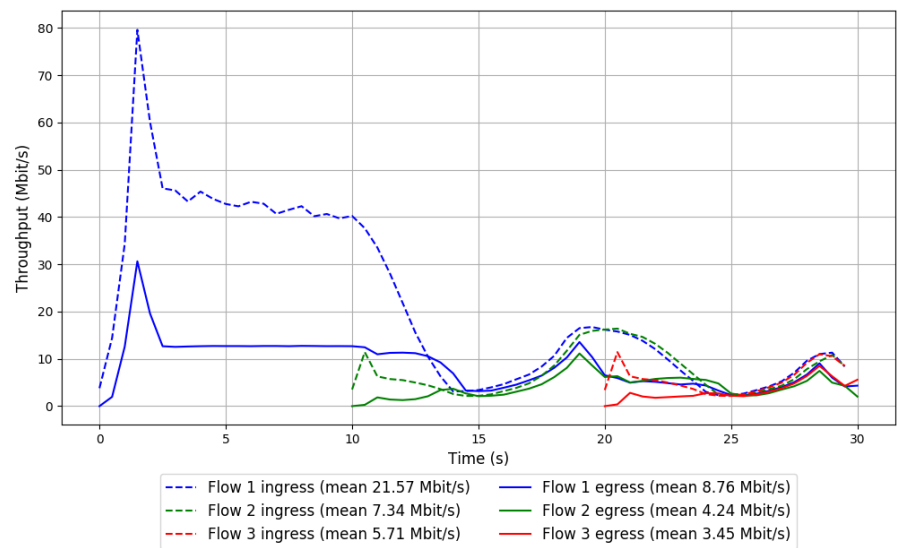## Run 4: Report of PCC-Allegro — Data Link
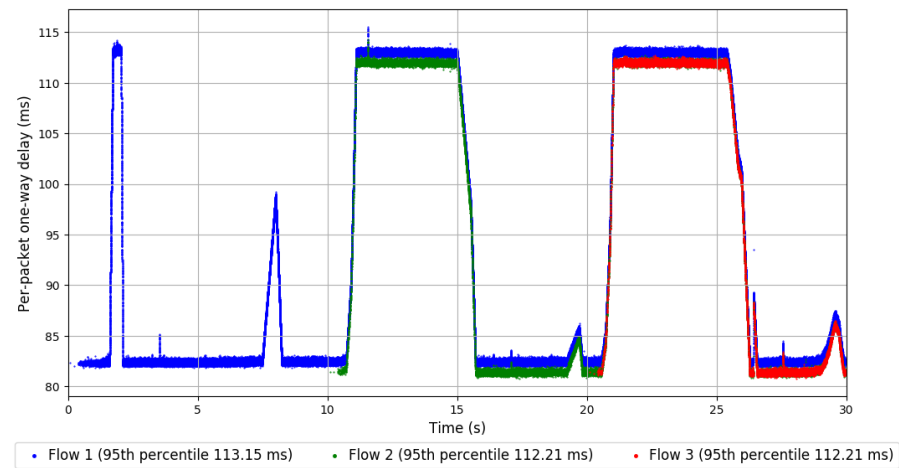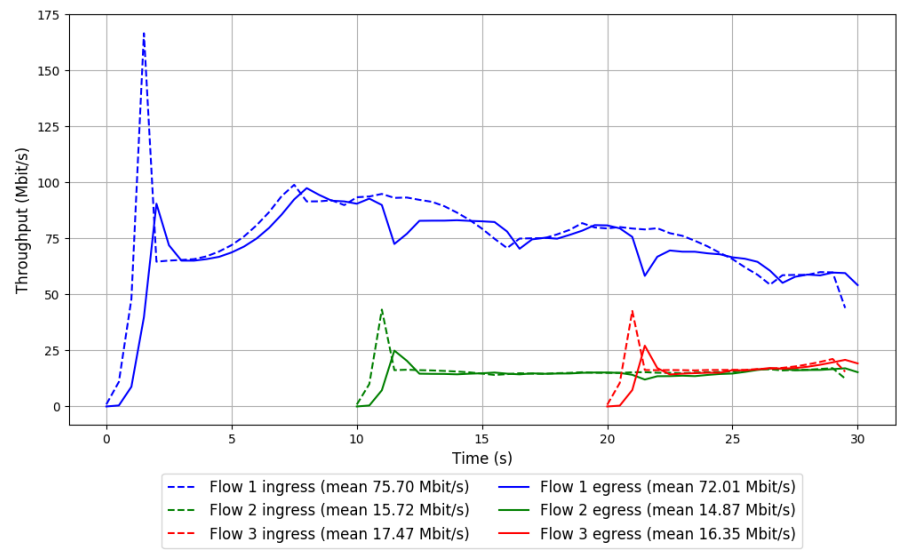
```
Run 5: Statistics of PCC-Allegro

Start at: 2020-02-18 03:34:07
End at: 2020-02-18 03:34:37
Local clock offset: -0.882 ms
Remote clock offset: -8.928 ms


# Below is generated by plot.py at 2020-02-18 04:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 112.503 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 112.506 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 111.580 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 112.609 ms
Loss rate: 4.18%
```

Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 81.74 Mbit/s)   Flow 1 egress (mean 79.50 Mbit/s)
Flow 2 ingress (mean 7.99 Mbit/s)   Flow 2 egress (mean 7.79 Mbit/s)
Flow 3 ingress (mean 8.97 Mbit/s)   Flow 3 egress (mean 8.60 Mbit/s)

Flow 1 (95th percentile 112.51 ms)   Flow 2 (95th percentile 111.58 ms)   Flow 3 (95th percentile 112.61 ms)
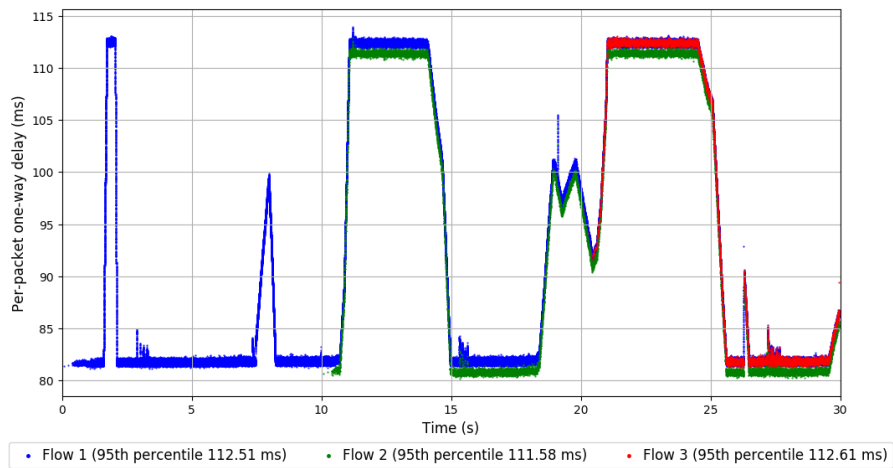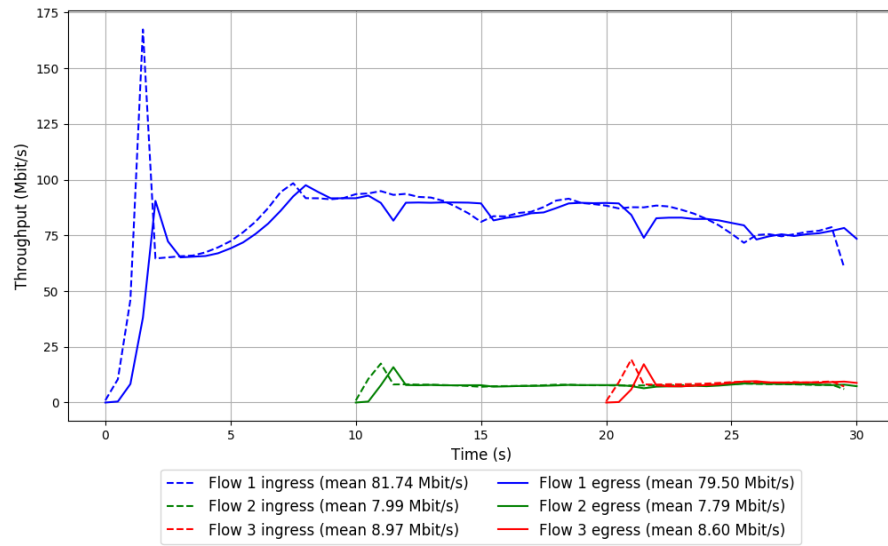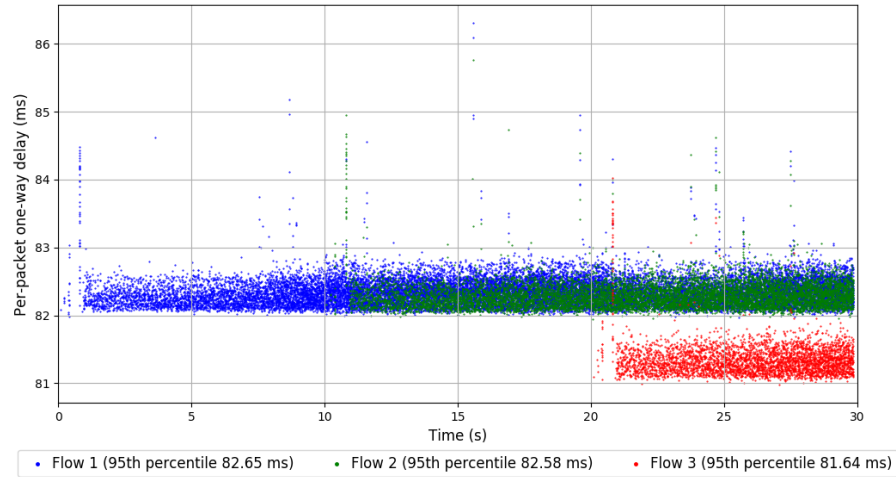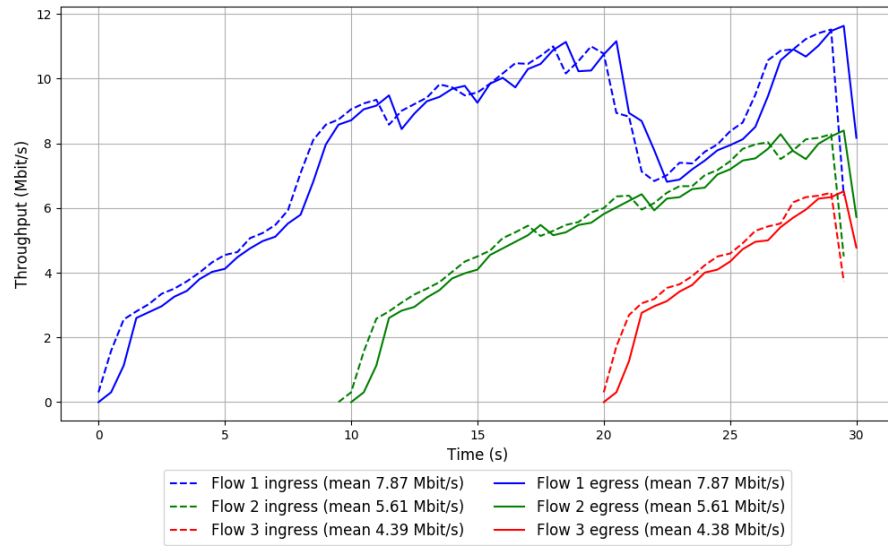
```
Run 1: Statistics of PCC-Expr

Start at: 2020-02-18 01:24:42
End at: 2020-02-18 01:25:12
Local clock offset: -0.881 ms
Remote clock offset: -8.868 ms


# Below is generated by plot.py at 2020-02-18 04:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 82.628 ms
Loss rate: 51.65%
-- Flow 1:
Average throughput: 5.91 Mbit/s
95th percentile per-packet one-way delay: 82.630 ms
Loss rate: 58.66%
-- Flow 2:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 82.626 ms
Loss rate: 42.88%
-- Flow 3:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 82.632 ms
Loss rate: 45.62%
```

Run 1: Report of PCC-Expr — Data Link
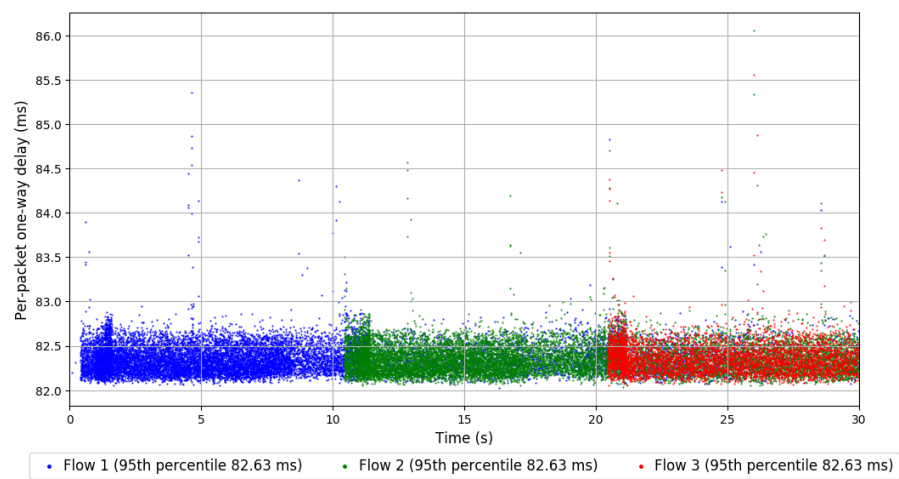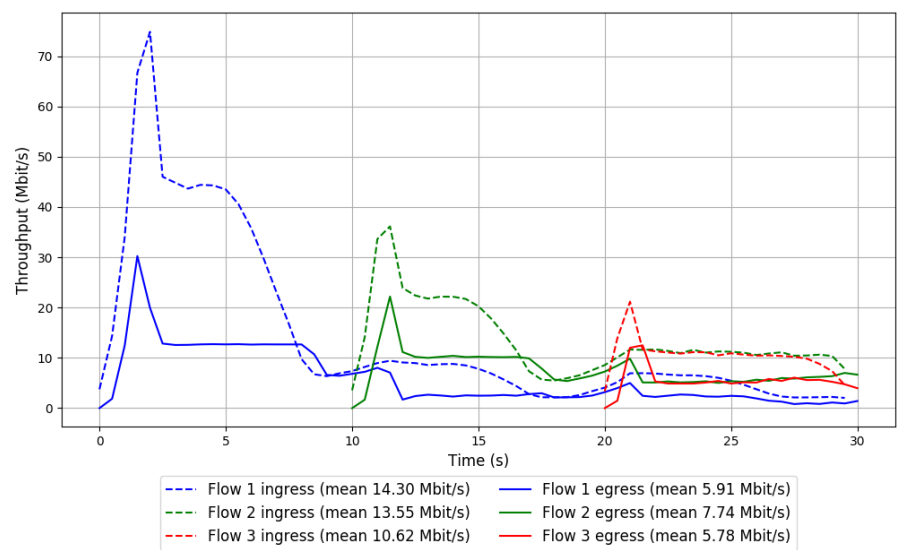
```
Run 2: Statistics of PCC-Expr

Start at: 2020-02-18 01:54:53
End at: 2020-02-18 01:55:23
Local clock offset: 0.12 ms
Remote clock offset: -8.43 ms


# Below is generated by plot.py at 2020-02-18 04:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.78 Mbit/s
95th percentile per-packet one-way delay: 82.472 ms
Loss rate: 53.71%
-- Flow 1:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 82.467 ms
Loss rate: 55.99%
-- Flow 2:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 82.476 ms
Loss rate: 46.77%
-- Flow 3:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 82.491 ms
Loss rate: 63.80%
```

Run 2: Report of PCC-Expr — Data Link
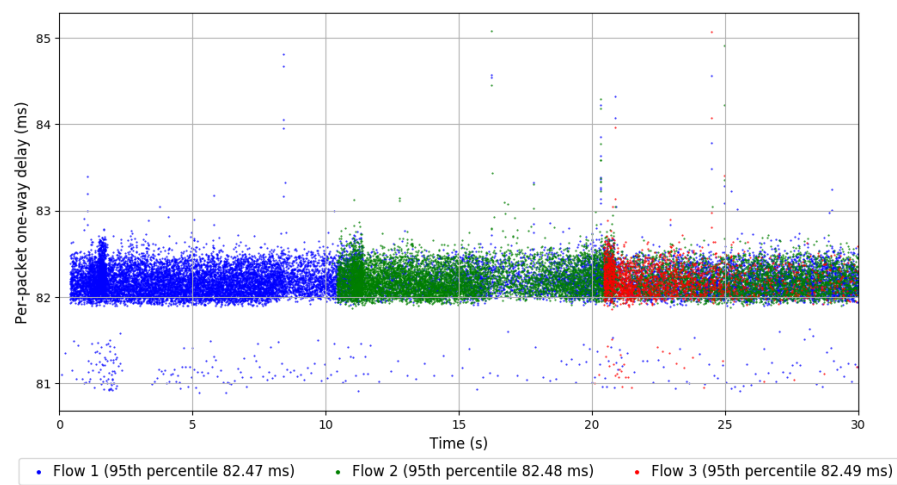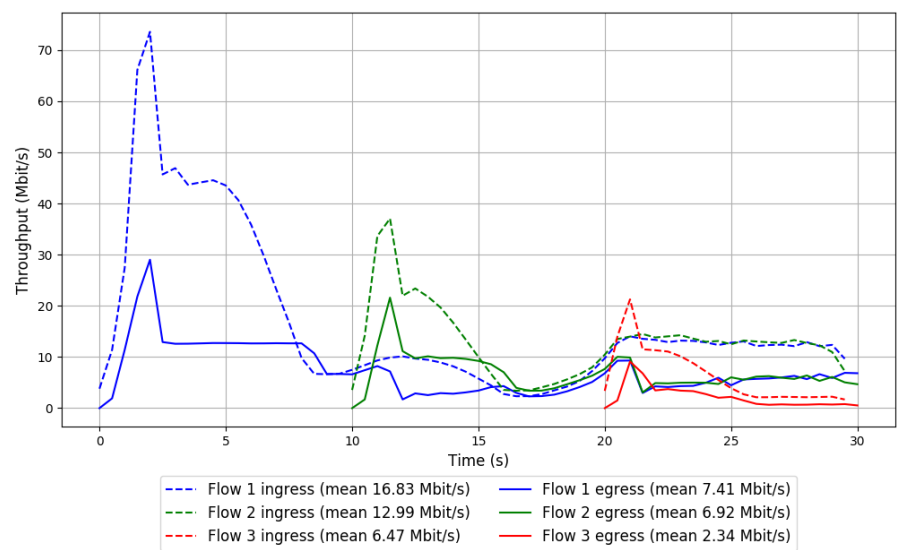
```
Run 3: Statistics of PCC-Expr

Start at: 2020-02-18 02:25:11
End at: 2020-02-18 02:25:41
Local clock offset: -1.041 ms
Remote clock offset: -7.899 ms


# Below is generated by plot.py at 2020-02-18 04:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 82.792 ms
Loss rate: 45.49%
-- Flow 1:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 82.780 ms
Loss rate: 53.62%
-- Flow 2:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 82.806 ms
Loss rate: 19.01%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 82.811 ms
Loss rate: 29.25%
```

Run 3: Report of PCC-Expr — Data Link
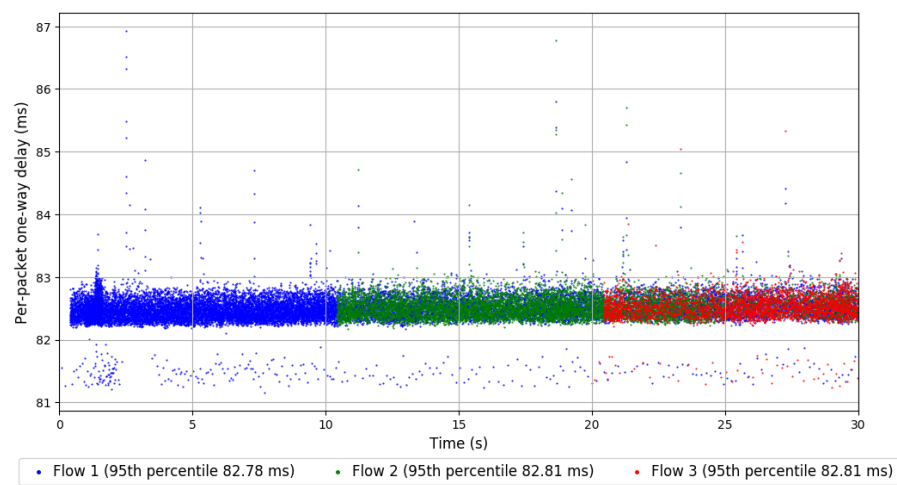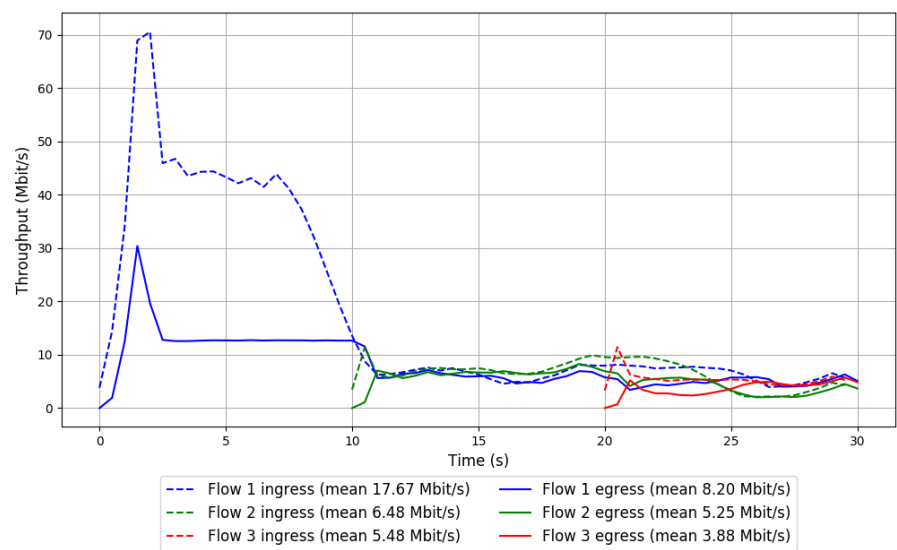
```
Run 4: Statistics of PCC-Expr

Start at: 2020-02-18 02:55:17
End at: 2020-02-18 02:55:47
Local clock offset: -0.864 ms
Remote clock offset: -9.083 ms


# Below is generated by plot.py at 2020-02-18 04:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 82.519 ms
Loss rate: 45.35%
-- Flow 1:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 82.512 ms
Loss rate: 53.85%
-- Flow 2:
Average throughput: 5.51 Mbit/s
95th percentile per-packet one-way delay: 82.524 ms
Loss rate: 18.92%
-- Flow 3:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 82.550 ms
Loss rate: 29.82%
```

Run 4: Report of PCC-Expr — Data Link

```
Run 5: Statistics of PCC-Expr

Start at: 2020-02-18 03:25:21
End at: 2020-02-18 03:25:51
Local clock offset: -0.163 ms
Remote clock offset: -8.308 ms


# Below is generated by plot.py at 2020-02-18 04:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 81.693 ms
Loss rate: 55.11%
-- Flow 1:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 80.781 ms
Loss rate: 59.39%
-- Flow 2:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 81.815 ms
Loss rate: 42.20%
-- Flow 3:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 81.816 ms
Loss rate: 39.60%
```

Run 5: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 21.57 Mbit/s)   Flow 1 egress (mean 8.76 Mbit/s)
Flow 2 ingress (mean 7.34 Mbit/s)   Flow 2 egress (mean 4.24 Mbit/s)
Flow 3 ingress (mean 5.71 Mbit/s)   Flow 3 egress (mean 3.45 Mbit/s)

Flow 1 (95th percentile 80.78 ms)   Flow 2 (95th percentile 81.81 ms)   Flow 3 (95th percentile 81.82 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2020-02-18 01:32:19
End at: 2020-02-18 01:32:49
Local clock offset: -0.535 ms
Remote clock offset: -8.809 ms


# Below is generated by plot.py at 2020-02-18 04:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 82.621 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 82.652 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 82.577 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 81.643 ms
Loss rate: 0.05%
```

Run 1: Report of QUIC Cubic — Data Link

Run 2: Statistics of QUIC Cubic

Start at: 2020-02-18 02:02:27
End at: 2020-02-18 02:02:57
Local clock offset: -0.271 ms
Remote clock offset: -8.345 ms

Below is generated by plot.py at 2020-02-18 04:00:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 82.374 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 82.370 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 82.407 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 81.374 ms
Loss rate: 0.16%

Run 2: Report of QUIC Cubic — Data Link
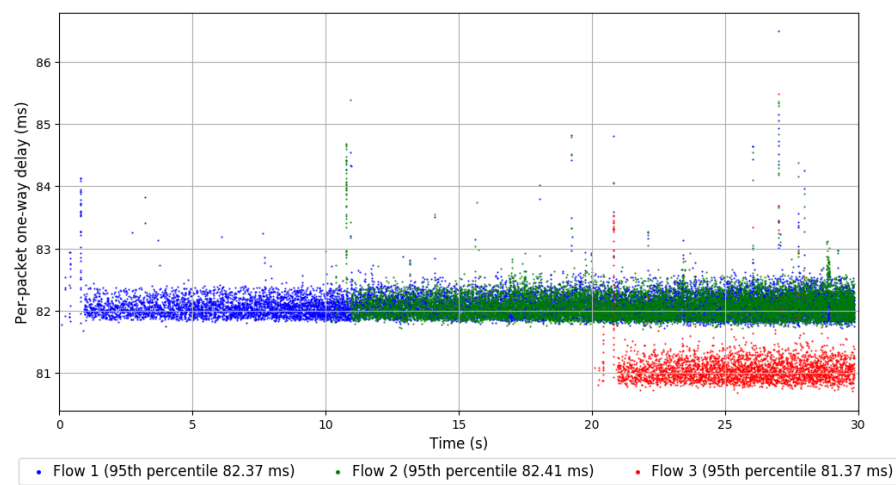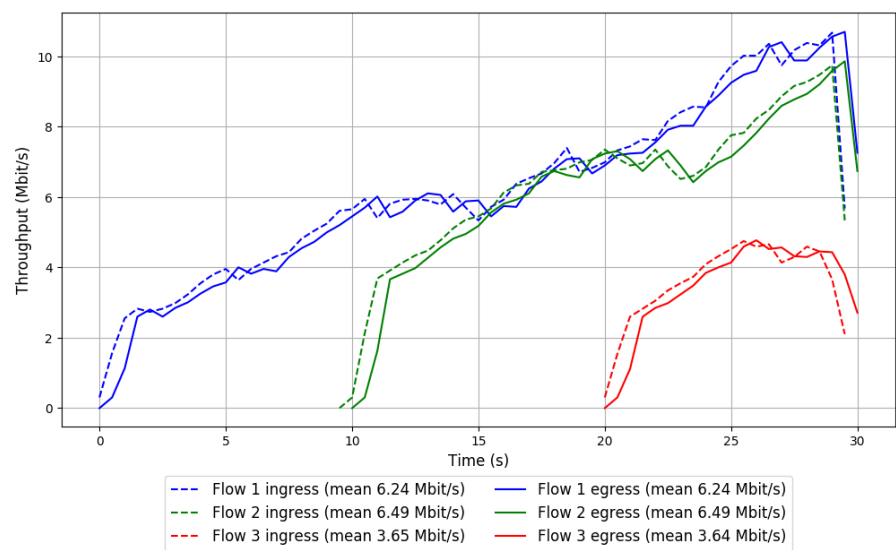
```
Run 3: Statistics of QUIC Cubic

Start at: 2020-02-18 02:32:47
End at: 2020-02-18 02:33:17
Local clock offset: -0.192 ms
Remote clock offset: -8.725 ms


# Below is generated by plot.py at 2020-02-18 04:00:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 81.718 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 9.18 Mbit/s
95th percentile per-packet one-way delay: 80.850 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 81.825 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 81.838 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link
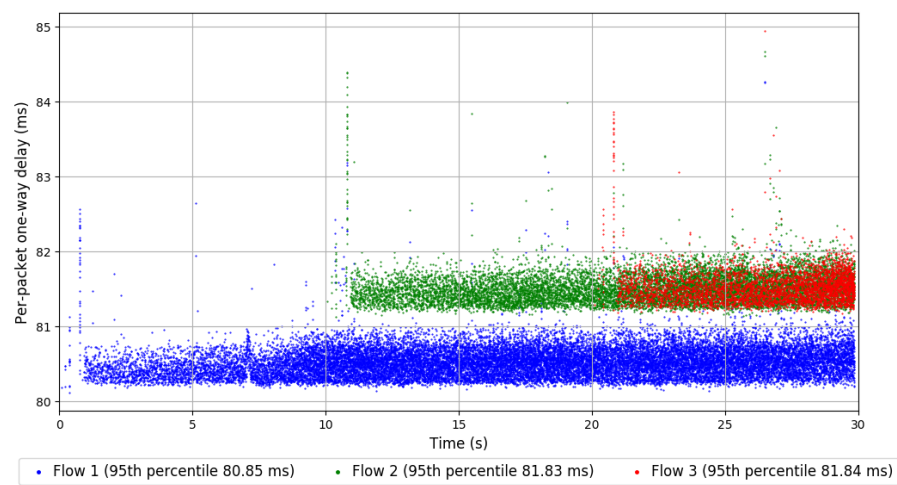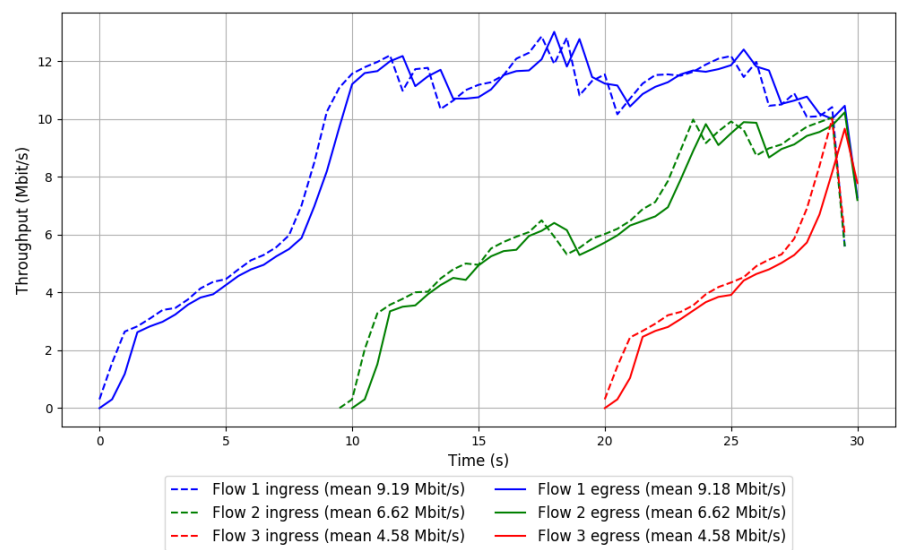
Run 4: Statistics of QUIC Cubic

Start at: 2020-02-18 03:02:52
End at: 2020-02-18 03:03:22
Local clock offset: -0.867 ms
Remote clock offset: -8.729 ms

Below is generated by plot.py at 2020-02-18 04:00:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 81.621 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 81.626 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 81.619 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 81.602 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link
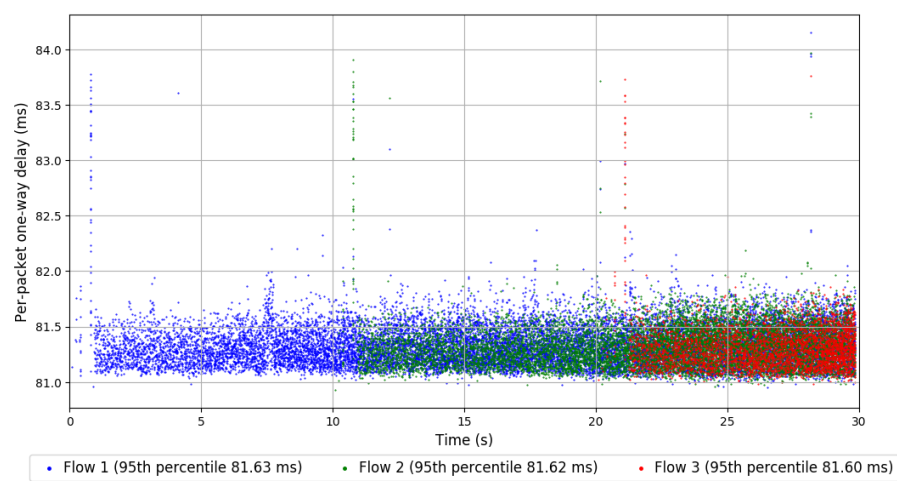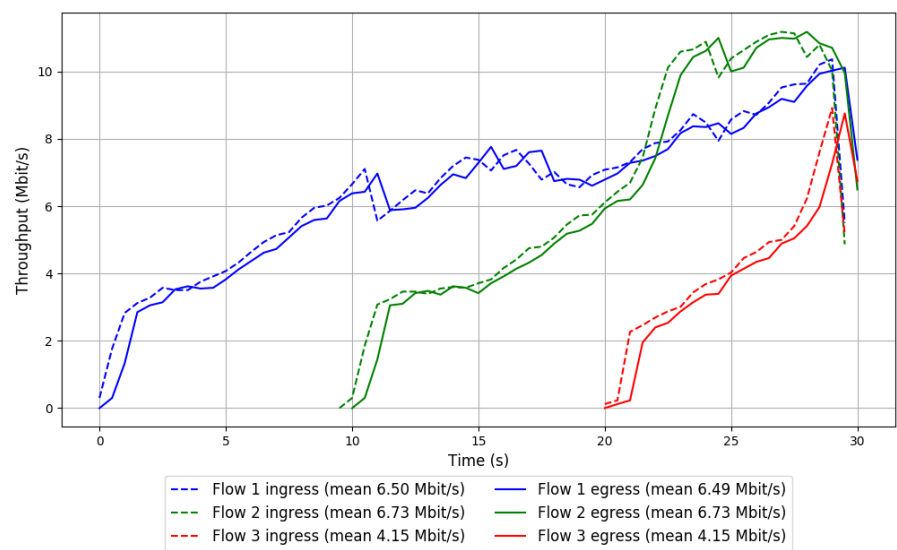
```
Run 5: Statistics of QUIC Cubic

Start at: 2020-02-18 03:32:54
End at: 2020-02-18 03:33:24
Local clock offset: -0.872 ms
Remote clock offset: -8.85 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 81.018 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 9.36 Mbit/s
95th percentile per-packet one-way delay: 81.020 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 81.010 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 81.037 ms
Loss rate: 0.02%
```

Run 5: Report of QUIC Cubic — Data Link
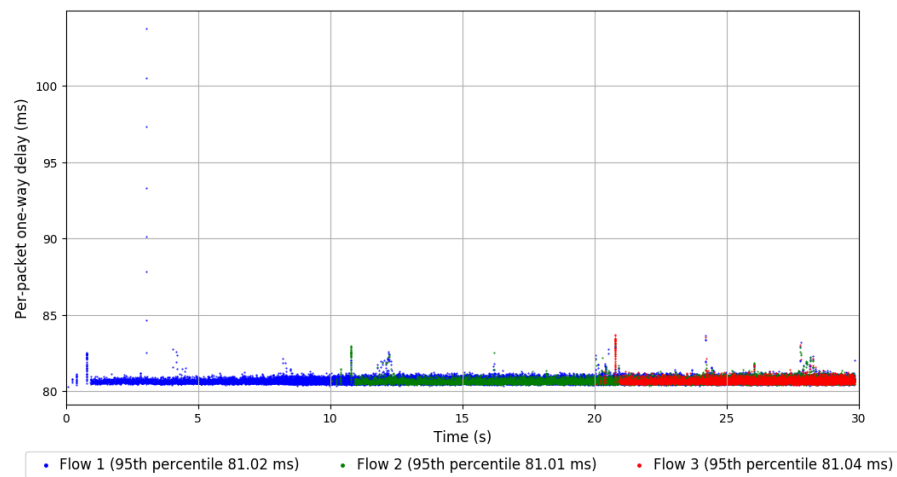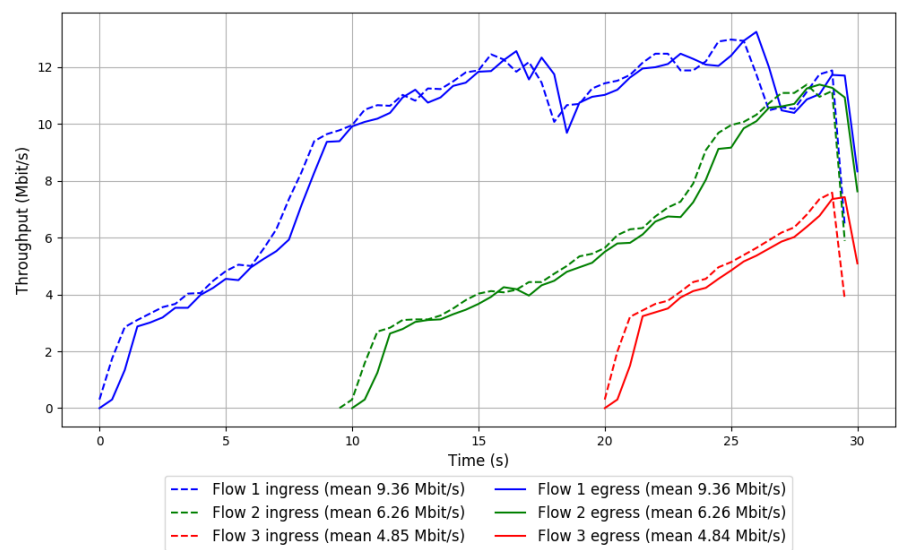
```
Run 1: Statistics of SCReAM

Start at: 2020-02-18 01:22:16
End at: 2020-02-18 01:22:46
Local clock offset: -0.17 ms
Remote clock offset: -8.889 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 81.925 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 81.929 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.912 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.936 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link
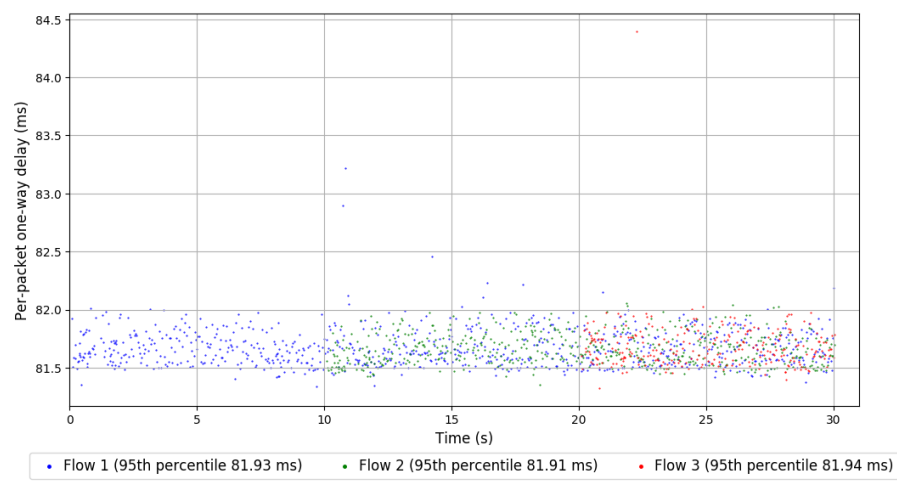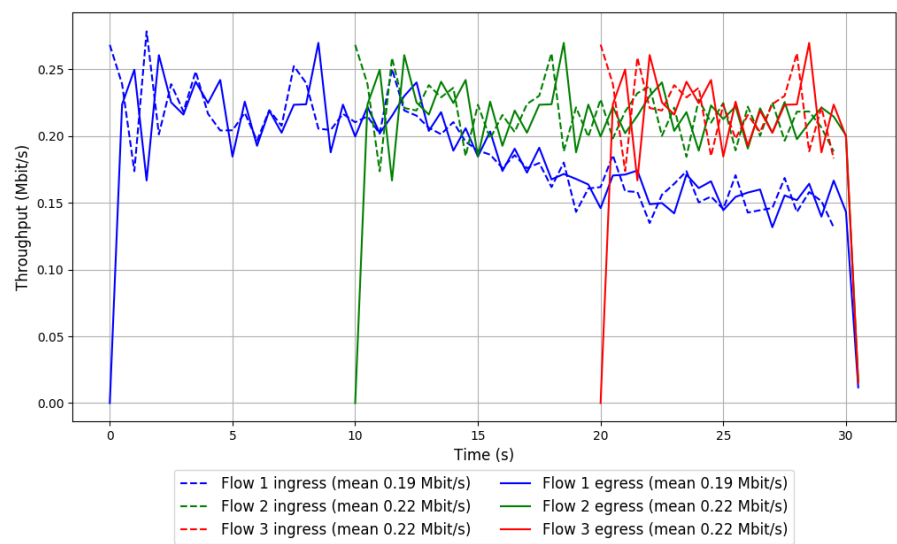
```
Run 2: Statistics of SCReAM

Start at: 2020-02-18 01:52:27
End at: 2020-02-18 01:52:57
Local clock offset: 0.085 ms
Remote clock offset: -8.223 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 82.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.674 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.673 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.679 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link
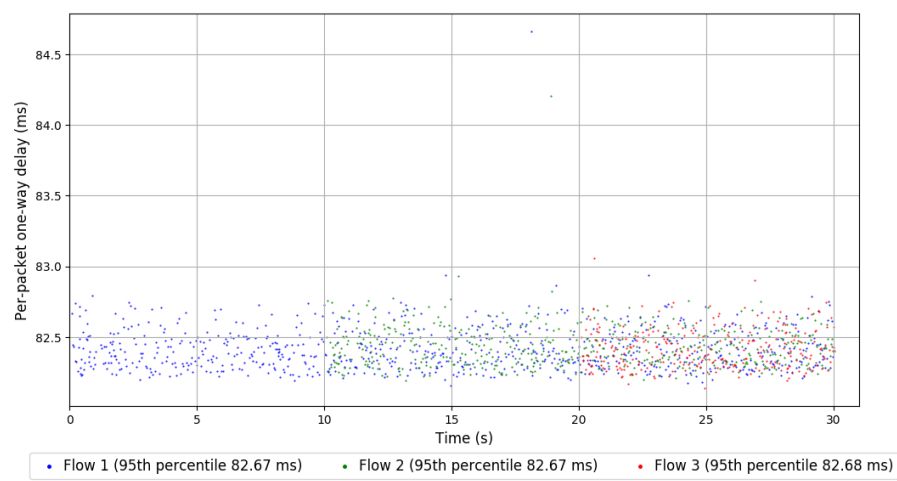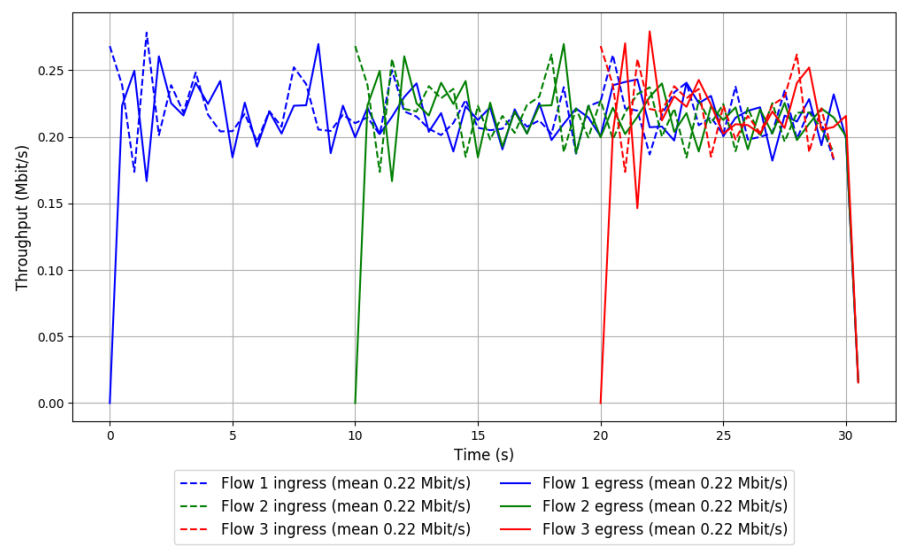
```
Run 3: Statistics of SCReAM

Start at: 2020-02-18 02:22:45
End at: 2020-02-18 02:23:15
Local clock offset: -0.929 ms
Remote clock offset: -7.742 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 82.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.550 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.573 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link
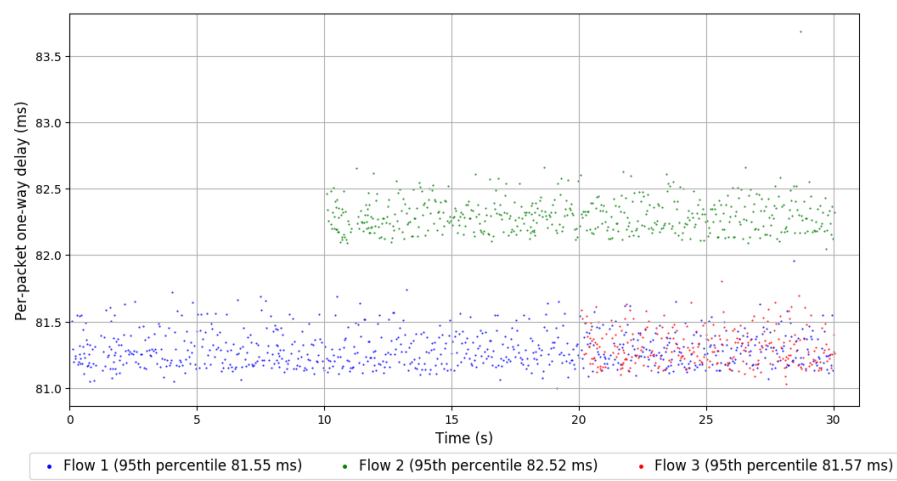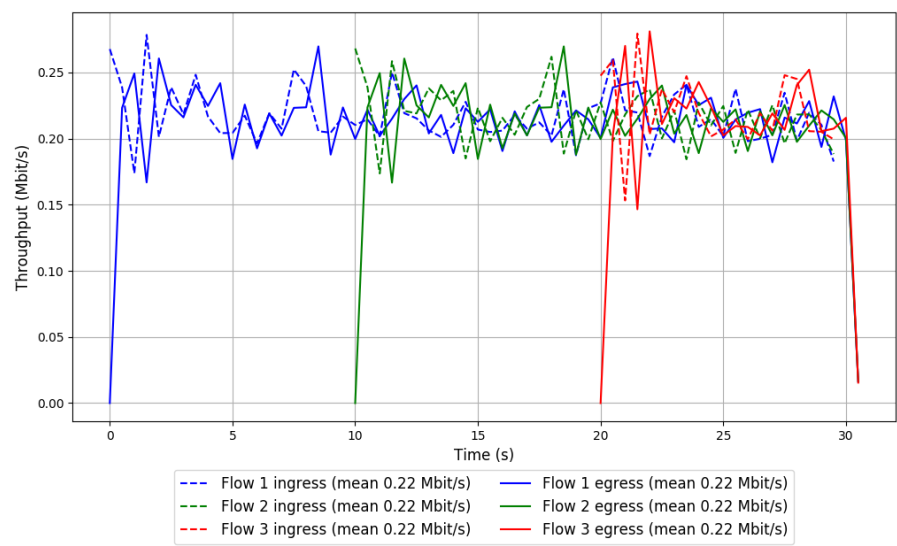
```
Run 4: Statistics of SCReAM

Start at: 2020-02-18 02:52:52
End at: 2020-02-18 02:53:22
Local clock offset: -0.848 ms
Remote clock offset: -8.877 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 82.544 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.674 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 82.652 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.670 ms
Loss rate: 0.00%
```

# Run 4: Report of SCReAM — Data Link
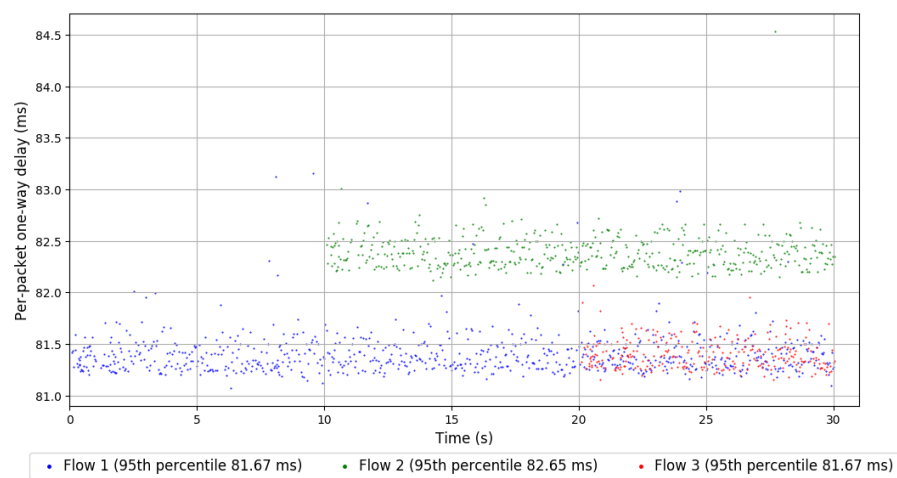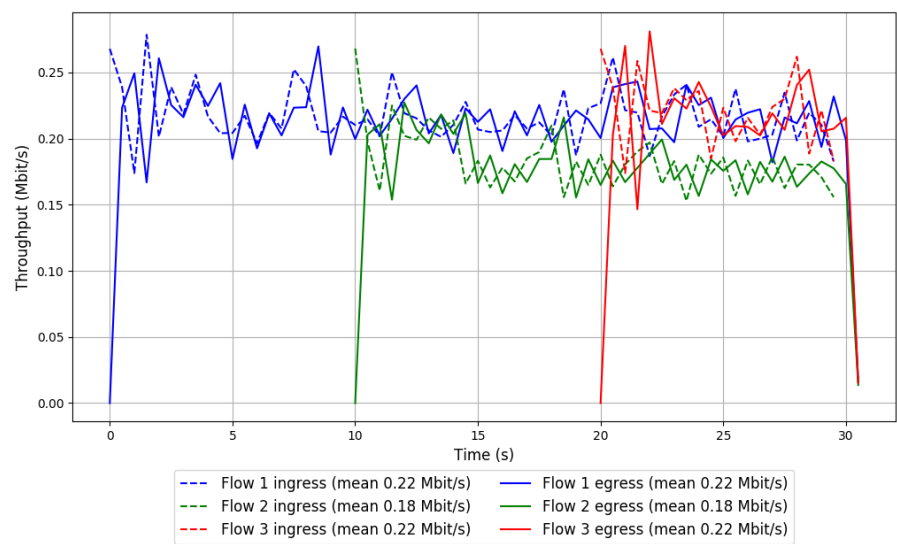
```
Run 5: Statistics of SCReAM

Start at: 2020-02-18 03:22:55
End at: 2020-02-18 03:23:25
Local clock offset: -0.15 ms
Remote clock offset: -8.201 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 81.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.864 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.883 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.912 ms
Loss rate: 0.00%
```

# Run 5: Report of SCReAM — Data Link
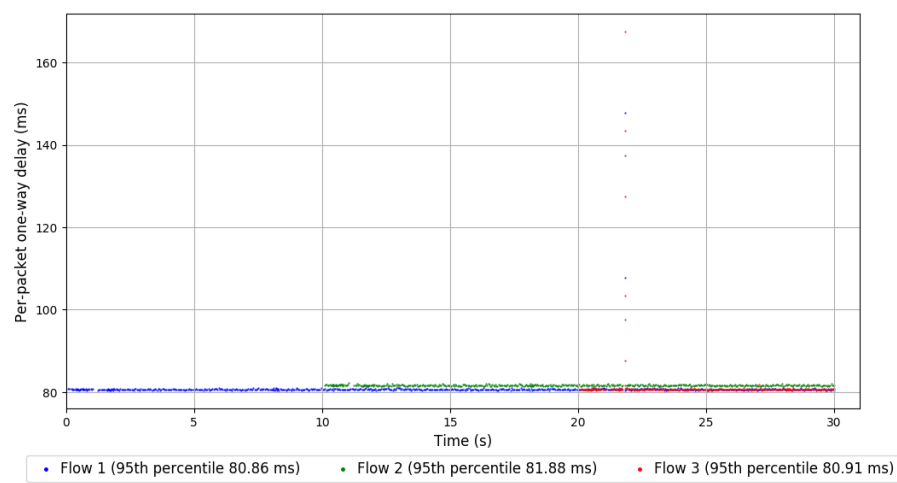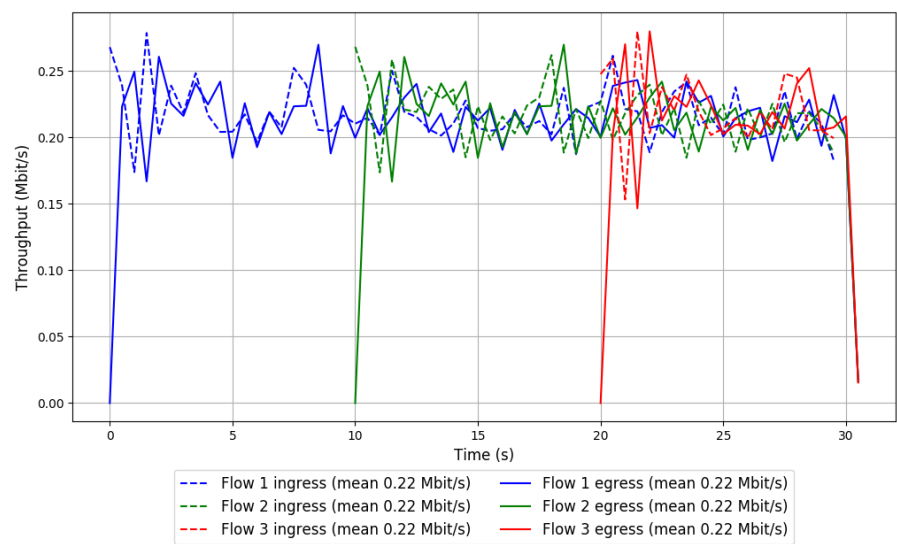
```
Run 1: Statistics of Sprout

Start at: 2020-02-18 01:42:25
End at: 2020-02-18 01:42:55
Local clock offset: 0.62 ms
Remote clock offset: -8.634 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 86.167 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 85.826 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 86.140 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 3.05 Mbit/s
95th percentile per-packet one-way delay: 88.215 ms
Loss rate: 0.62%
```

Run 1: Report of Sprout — Data Link
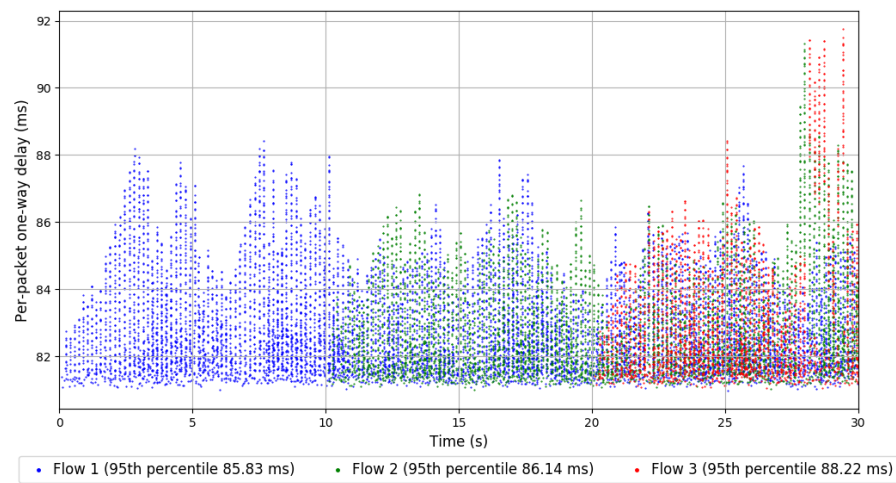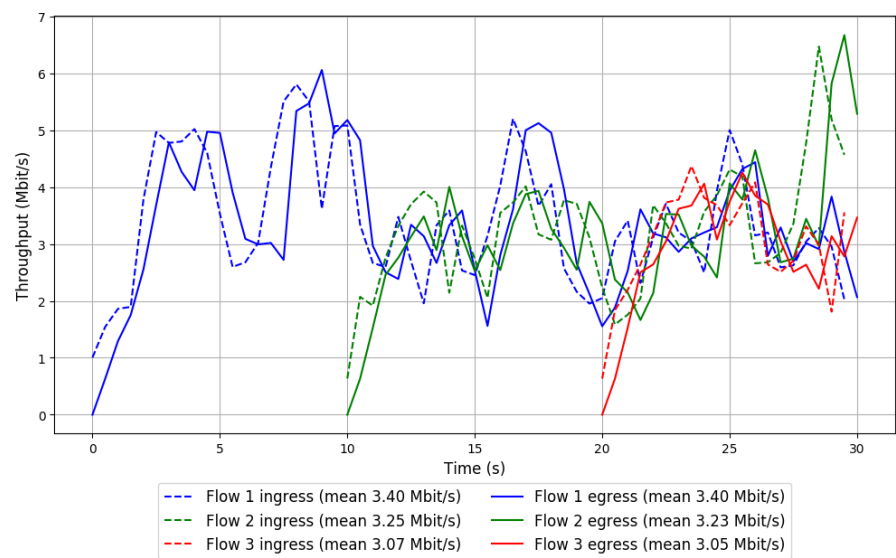
```
Run 2: Statistics of Sprout

Start at: 2020-02-18 02:12:42
End at: 2020-02-18 02:13:12
Local clock offset: -0.022 ms
Remote clock offset: -7.881 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 86.127 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 85.643 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 86.884 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 85.376 ms
Loss rate: 0.51%
```

Run 2: Report of Sprout — Data Link
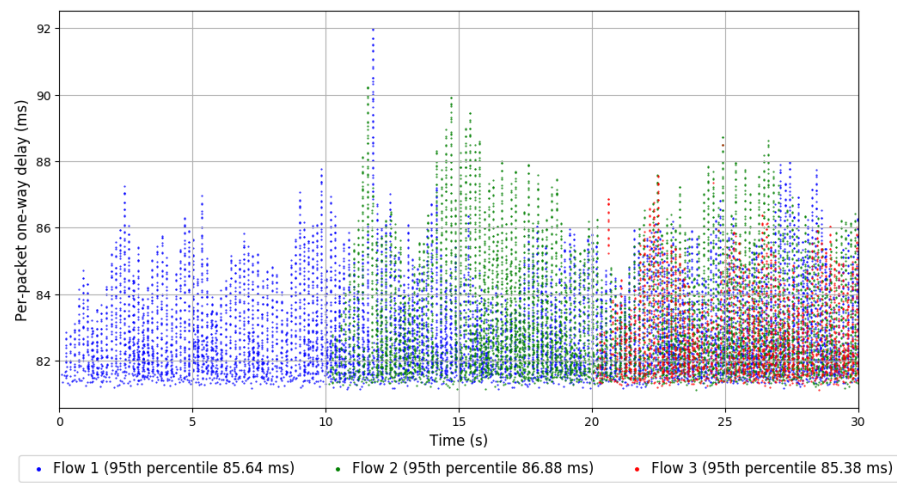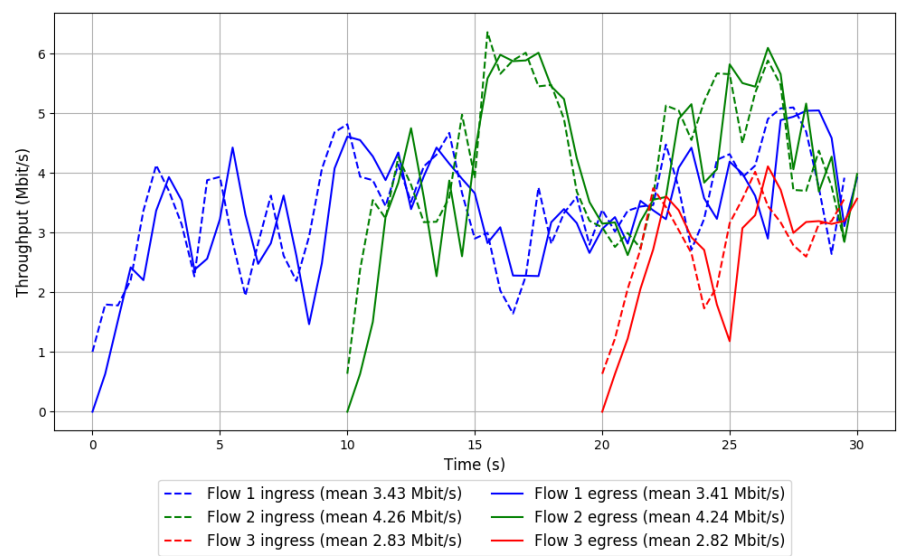
```
Run 3: Statistics of Sprout

Start at: 2020-02-18 02:42:53
End at: 2020-02-18 02:43:23
Local clock offset: -0.88 ms
Remote clock offset: -8.917 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 87.852 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 86.776 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 87.154 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 91.910 ms
Loss rate: 0.47%
```

Run 3: Report of Sprout — Data Link
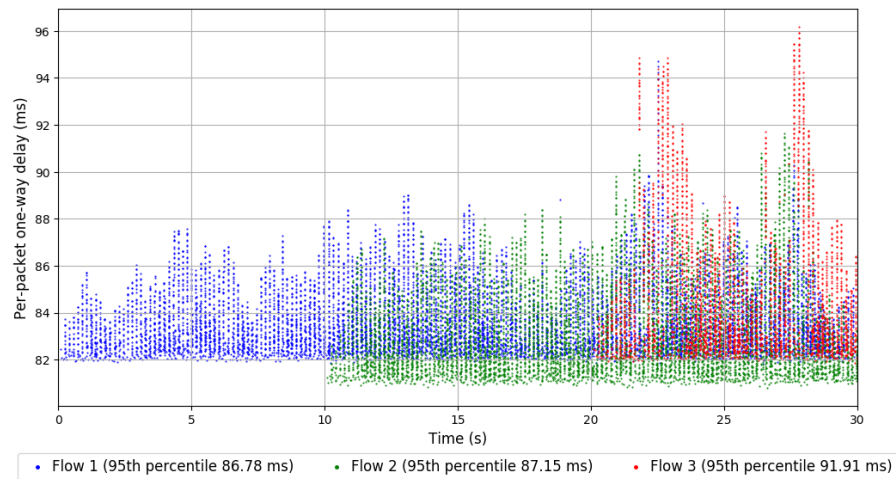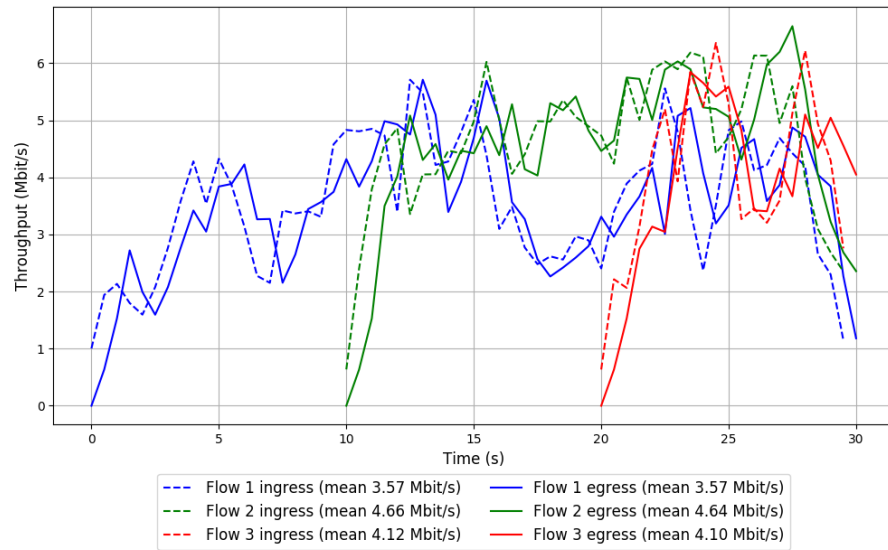
```
Run 4: Statistics of Sprout

Start at: 2020-02-18 03:12:59
End at: 2020-02-18 03:13:29
Local clock offset: -0.851 ms
Remote clock offset: -8.27 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 86.530 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 86.733 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 86.024 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 86.477 ms
Loss rate: 0.20%
```
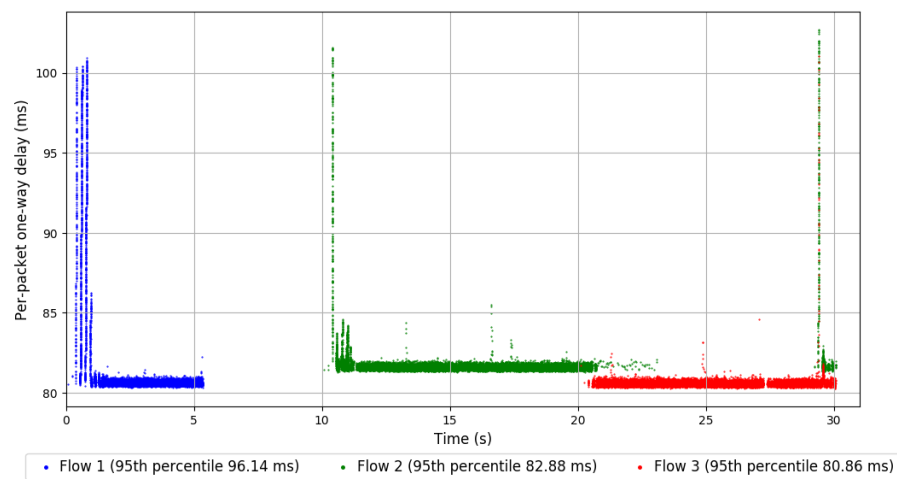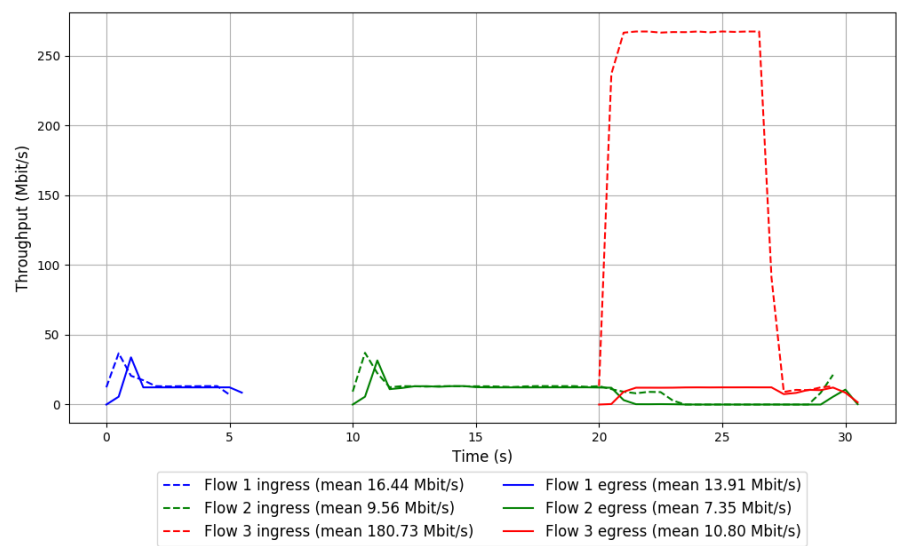
Run 4: Report of Sprout — Data Link
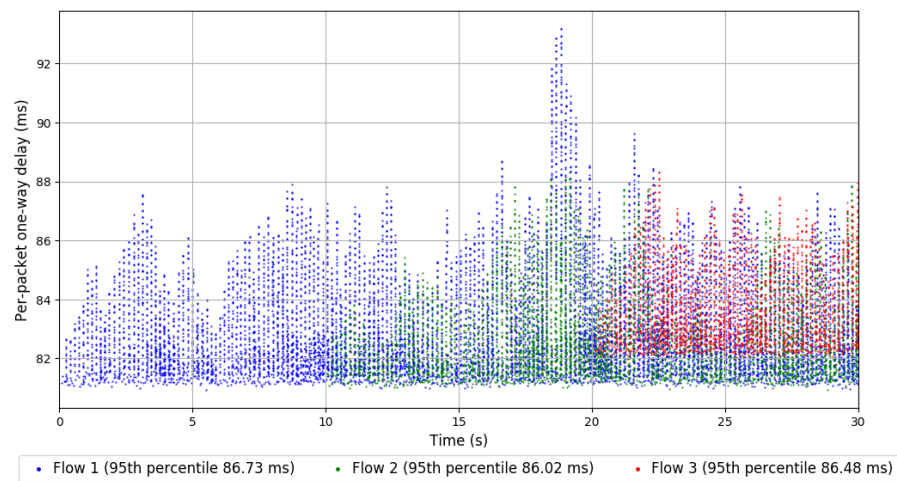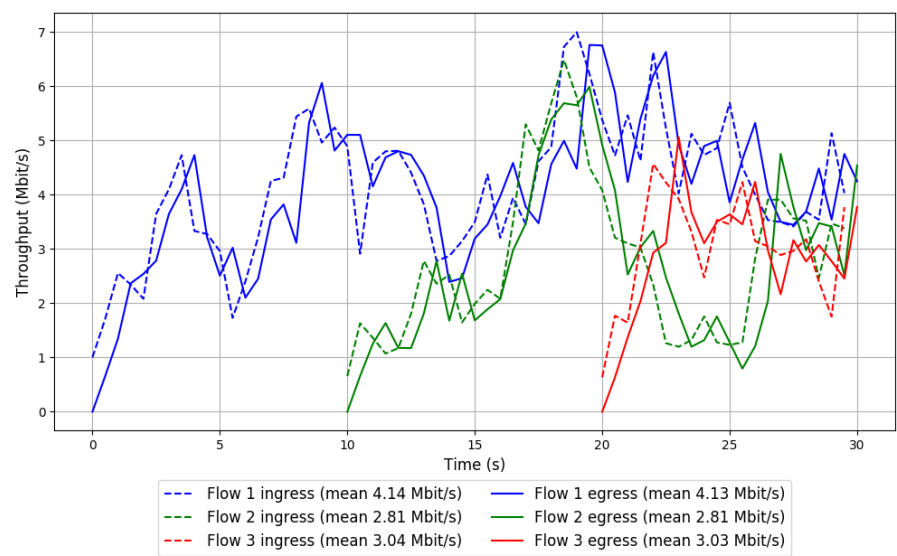
```
Run 5: Statistics of Sprout

Start at: 2020-02-18 03:42:59
End at: 2020-02-18 03:43:29
Local clock offset: -0.194 ms
Remote clock offset: -8.239 ms


# Below is generated by plot.py at 2020-02-18 04:00:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 86.530 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 86.269 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 87.032 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 86.318 ms
Loss rate: 0.23%
```

Run 5: Report of Sprout — Data Link
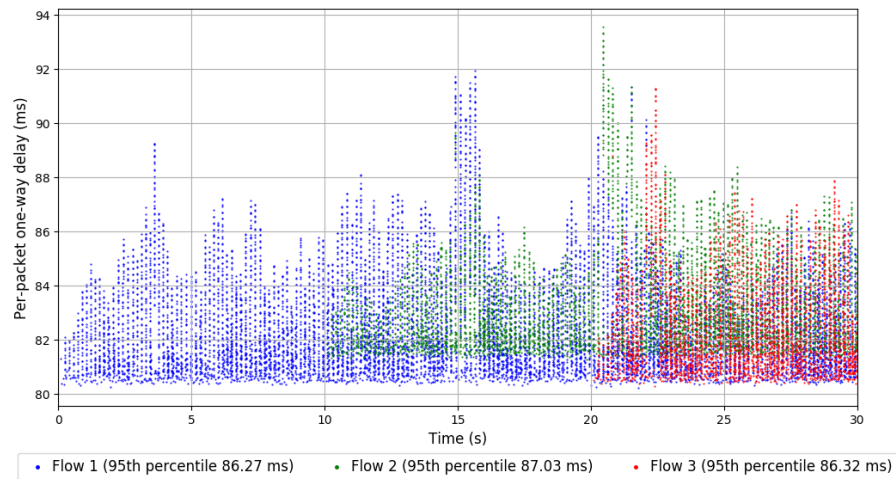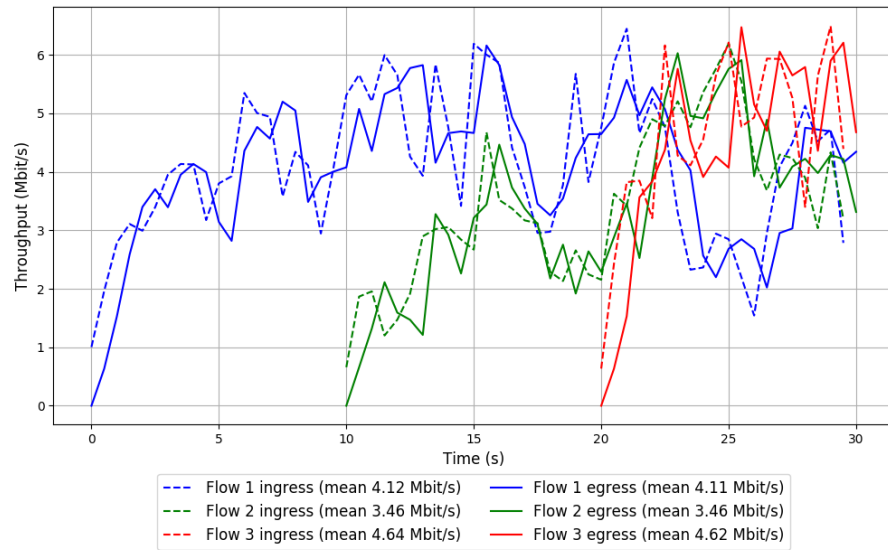
```
Run 1: Statistics of TaoVA-100x

Start at: 2020-02-18 01:29:48
End at: 2020-02-18 01:30:18
Local clock offset: -0.014 ms
Remote clock offset: -8.664 ms


# Below is generated by plot.py at 2020-02-18 04:00:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 82.243 ms
Loss rate: 89.53%
-- Flow 1:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 87.632 ms
Loss rate: 19.12%
-- Flow 2:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 82.145 ms
Loss rate: 38.38%
-- Flow 3:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 82.064 ms
Loss rate: 95.46%
```

Run 1: Report of TaoVA-100x — Data Link
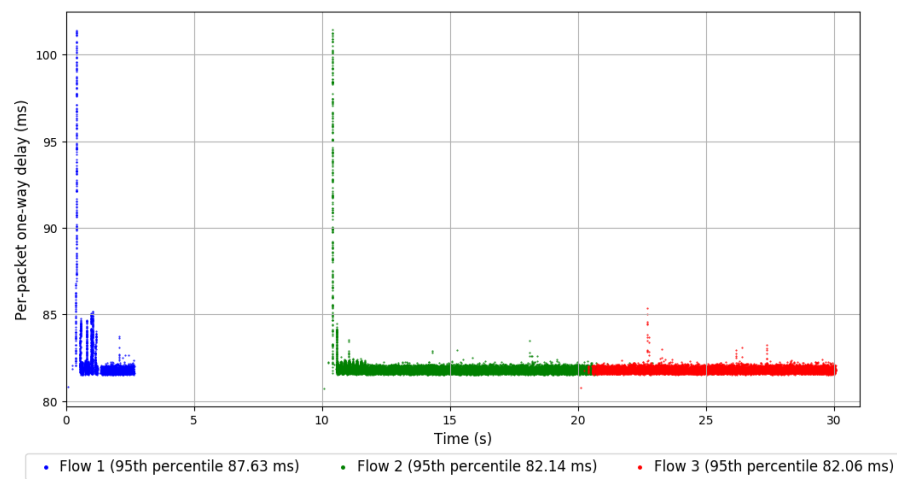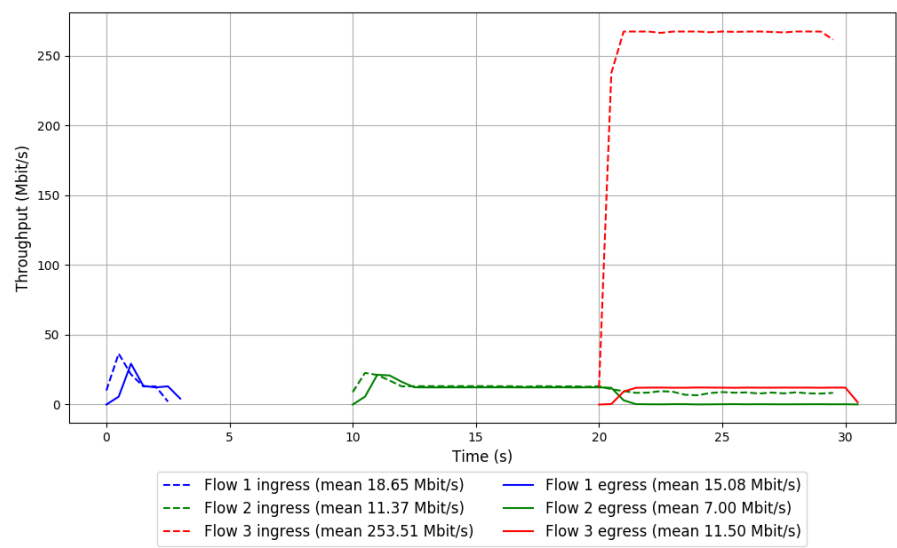
```
Run 2: Statistics of TaoVA-100x

Start at: 2020-02-18 01:59:57
End at: 2020-02-18 02:00:27
Local clock offset: -0.046 ms
Remote clock offset: -8.854 ms


# Below is generated by plot.py at 2020-02-18 04:00:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 86.161 ms
Loss rate: 84.23%
-- Flow 1:
Average throughput: 13.91 Mbit/s
95th percentile per-packet one-way delay: 96.141 ms
Loss rate: 15.37%
-- Flow 2:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 82.880 ms
Loss rate: 23.12%
-- Flow 3:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 80.859 ms
Loss rate: 94.02%
```

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

Flow 1 ingress (mean 16.44 Mbit/s)   Flow 1 egress (mean 13.91 Mbit/s)
Flow 2 ingress (mean 9.56 Mbit/s)   Flow 2 egress (mean 7.35 Mbit/s)
Flow 3 ingress (mean 180.73 Mbit/s)   Flow 3 egress (mean 10.80 Mbit/s)

Flow 1 (95th percentile 96.14 ms)   Flow 2 (95th percentile 82.88 ms)   Flow 3 (95th percentile 80.86 ms)
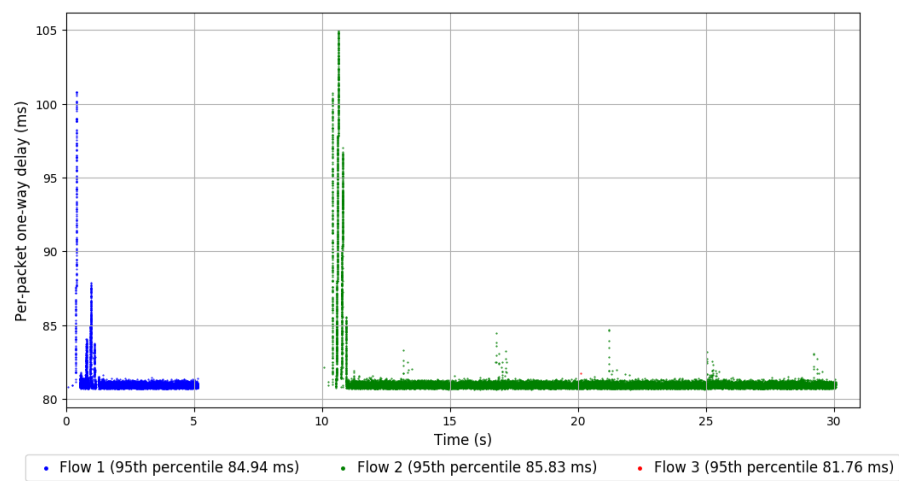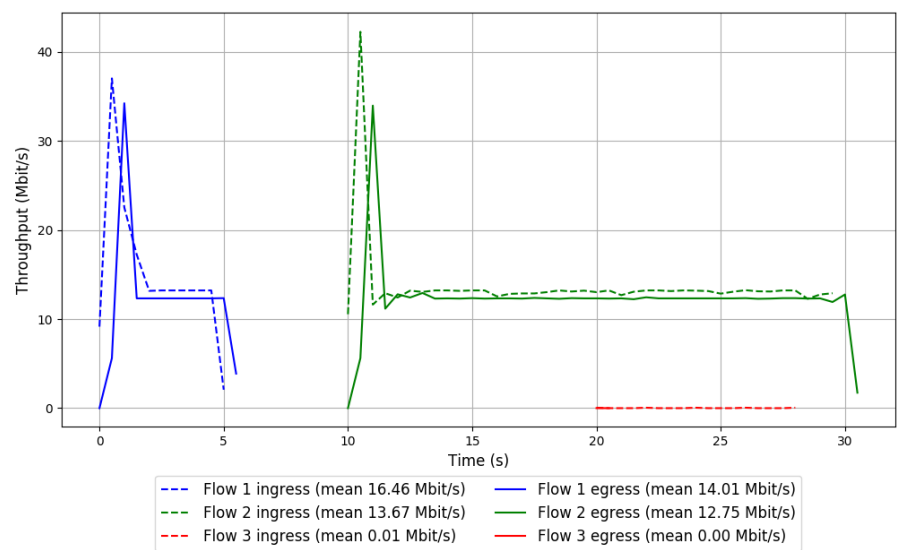
```
Run 3: Statistics of TaoVA-100x

Start at: 2020-02-18 02:30:17
End at: 2020-02-18 02:30:47
Local clock offset: -0.214 ms
Remote clock offset: -8.515 ms


# Below is generated by plot.py at 2020-02-18 04:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 87.314 ms
Loss rate: 89.17%
-- Flow 1:
Average throughput: 14.48 Mbit/s
95th percentile per-packet one-way delay: 99.577 ms
Loss rate: 36.91%
-- Flow 2:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 82.489 ms
Loss rate: 38.35%
-- Flow 3:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 81.805 ms
Loss rate: 95.46%
```

Run 3: Report of TaoVA-100x — Data Link
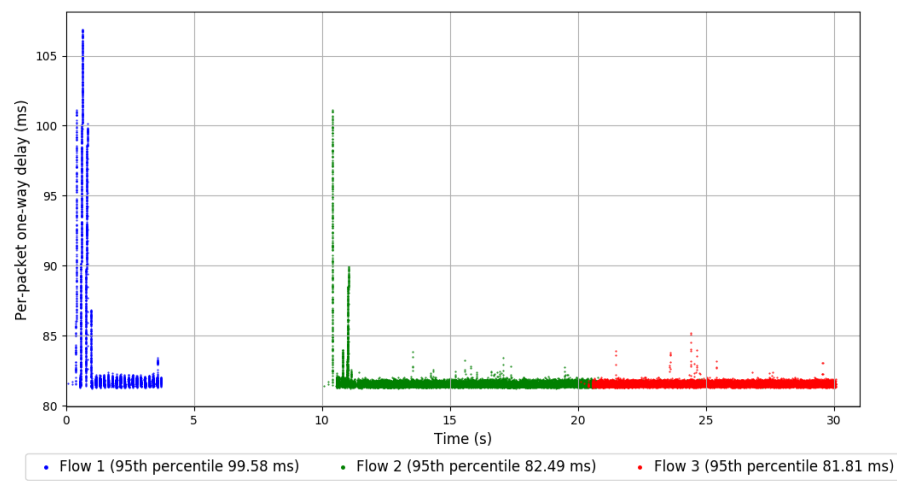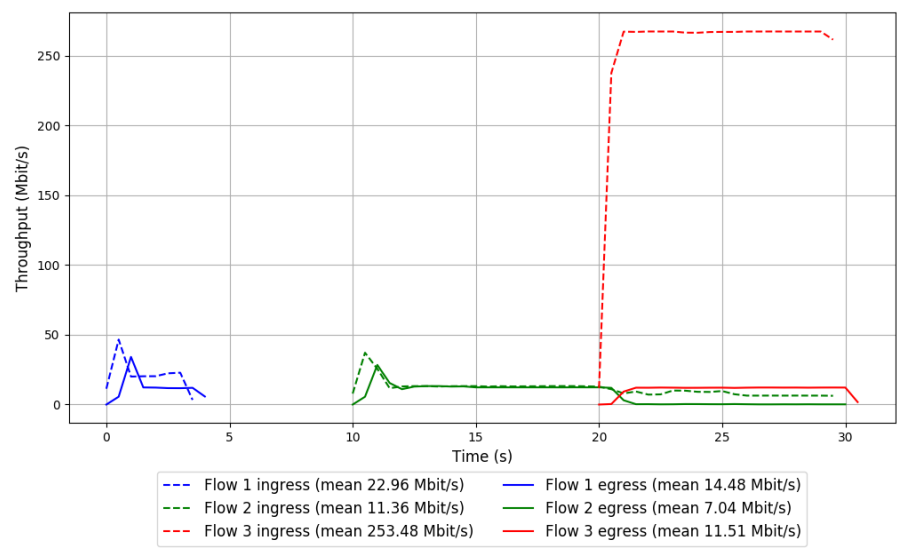
```
Run 4: Statistics of TaoVA-100x

Start at: 2020-02-18 03:00:23
End at: 2020-02-18 03:00:53
Local clock offset: -0.132 ms
Remote clock offset: -8.745 ms


# Below is generated by plot.py at 2020-02-18 04:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 85.781 ms
Loss rate: 17.36%
-- Flow 1:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 97.910 ms
Loss rate: 38.07%
-- Flow 2:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 81.028 ms
Loss rate: 8.49%
-- Flow 3:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 82.059 ms
Loss rate: 15.07%
```

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

202
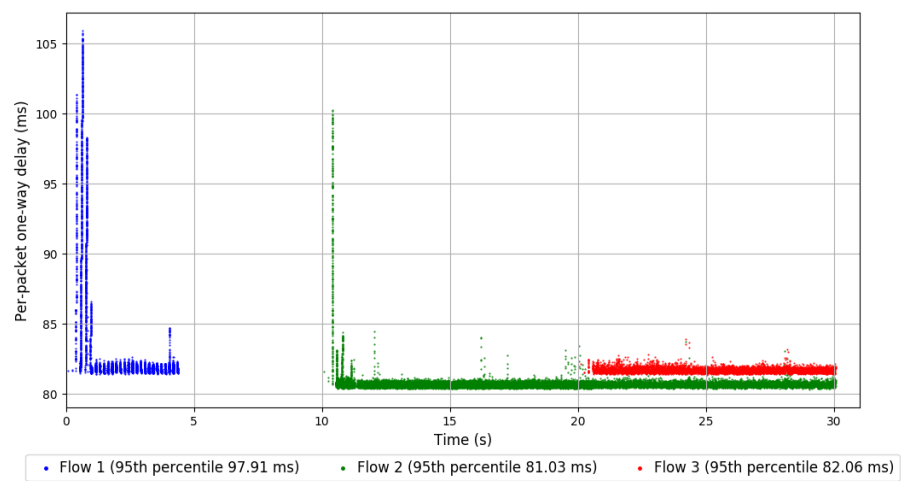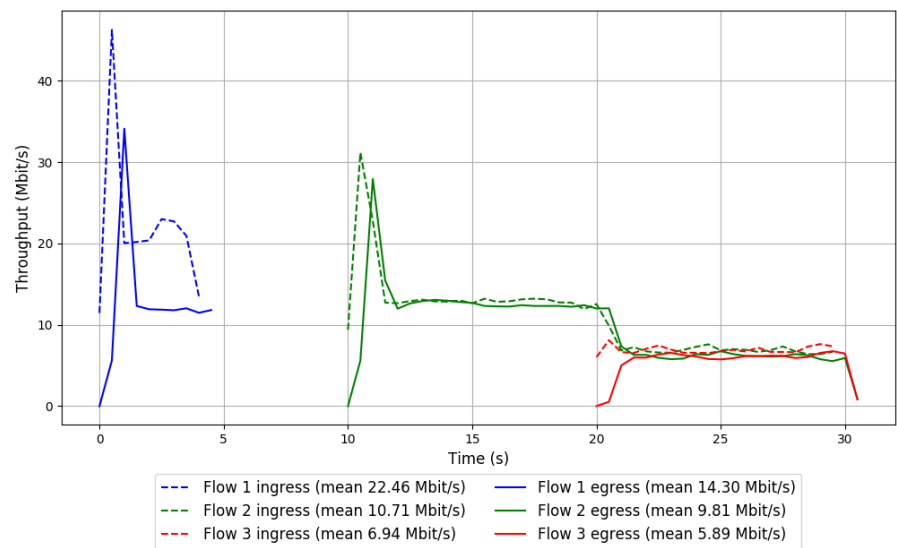
```
Run 5: Statistics of TaoVA-100x

Start at: 2020-02-18 03:30:25
End at: 2020-02-18 03:30:55
Local clock offset: -0.884 ms
Remote clock offset: -8.564 ms


# Below is generated by plot.py at 2020-02-18 04:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.87 Mbit/s
95th percentile per-packet one-way delay: 85.403 ms
Loss rate: 8.69%
-- Flow 1:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 84.935 ms
Loss rate: 14.90%
-- Flow 2:
Average throughput: 12.75 Mbit/s
95th percentile per-packet one-way delay: 85.831 ms
Loss rate: 6.76%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.763 ms
Loss rate: 99.16%
```

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

- - - - Flow 1 ingress (mean 16.46 Mbit/s)   —— Flow 1 egress (mean 14.01 Mbit/s)
- - - - Flow 2 ingress (mean 13.67 Mbit/s)   —— Flow 2 egress (mean 12.75 Mbit/s)
- - - - Flow 3 ingress (mean 0.01 Mbit/s)   —— Flow 3 egress (mean 0.00 Mbit/s)

     • Flow 1 (95th percentile 84.94 ms)   • Flow 2 (95th percentile 85.83 ms)   • Flow 3 (95th percentile 81.76 ms)
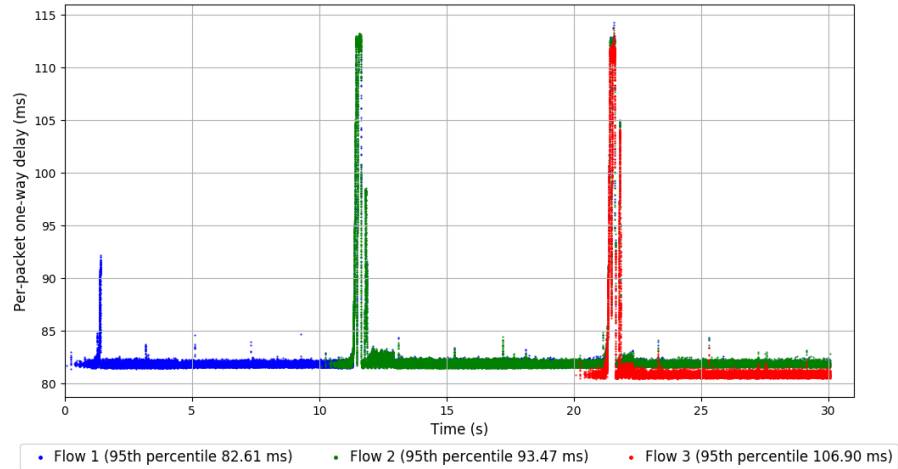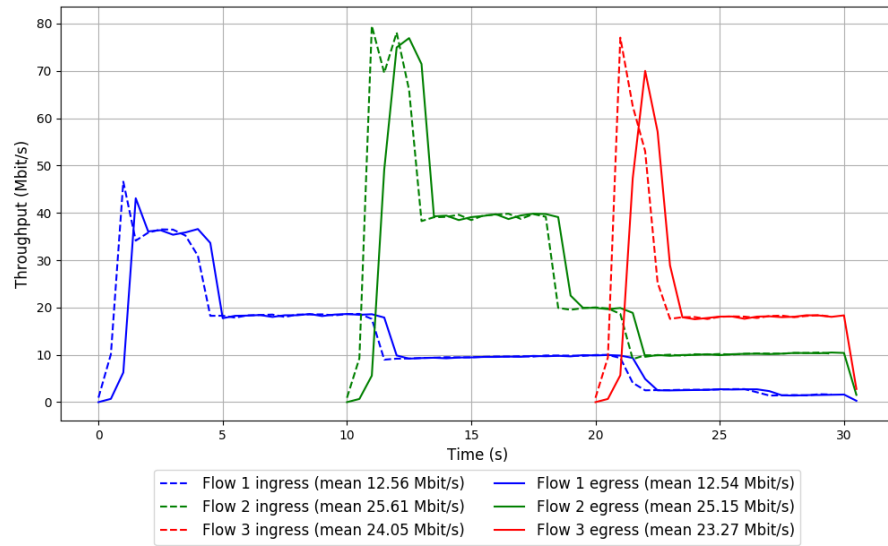
```
Run 1: Statistics of TCP Vegas

Start at: 2020-02-18 01:44:59
End at: 2020-02-18 01:45:29
Local clock offset: -0.045 ms
Remote clock offset: -8.309 ms


# Below is generated by plot.py at 2020-02-18 04:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.98 Mbit/s
95th percentile per-packet one-way delay: 105.617 ms
Loss rate: 3.36%
-- Flow 1:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 112.202 ms
Loss rate: 4.44%
-- Flow 2:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 93.235 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 112.457 ms
Loss rate: 5.03%
```

Run 1: Report of TCP Vegas — Data Link
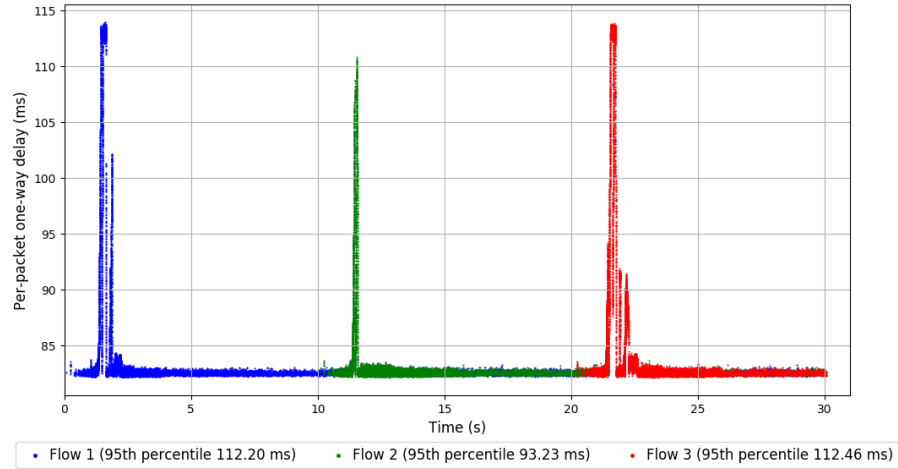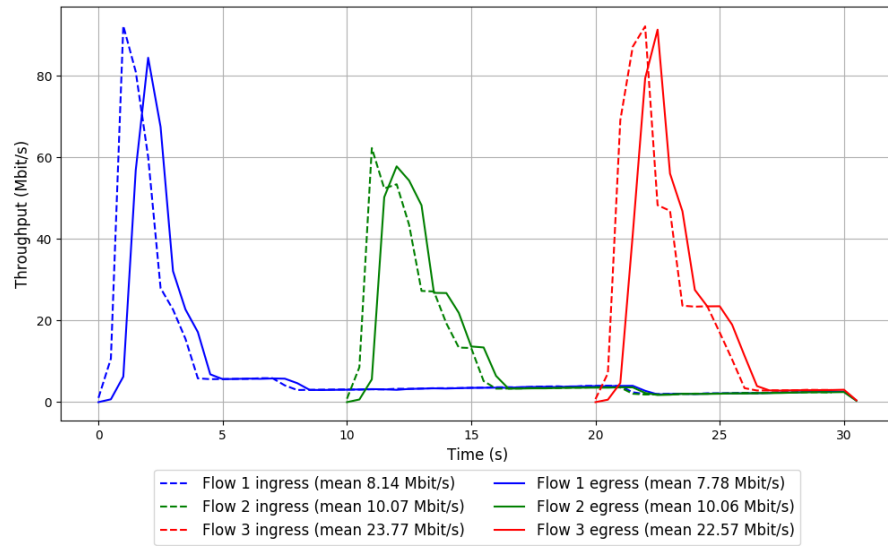
```
Run 2: Statistics of TCP Vegas

Start at: 2020-02-18 02:15:13
End at: 2020-02-18 02:15:43
Local clock offset: -0.083 ms
Remote clock offset: -7.862 ms


# Below is generated by plot.py at 2020-02-18 04:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 89.380 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 82.075 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 12.91 Mbit/s
95th percentile per-packet one-way delay: 105.686 ms
Loss rate: 3.62%
-- Flow 3:
Average throughput: 19.69 Mbit/s
95th percentile per-packet one-way delay: 82.181 ms
Loss rate: 0.04%
```

Run 2: Report of TCP Vegas — Data Link
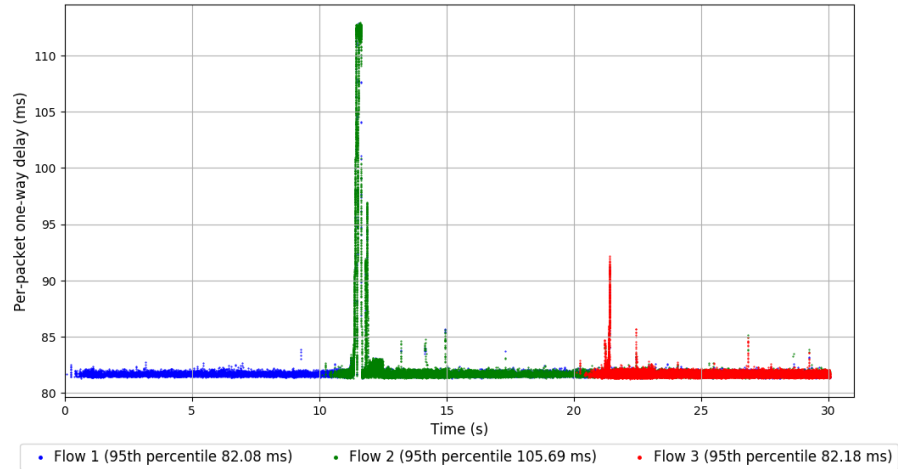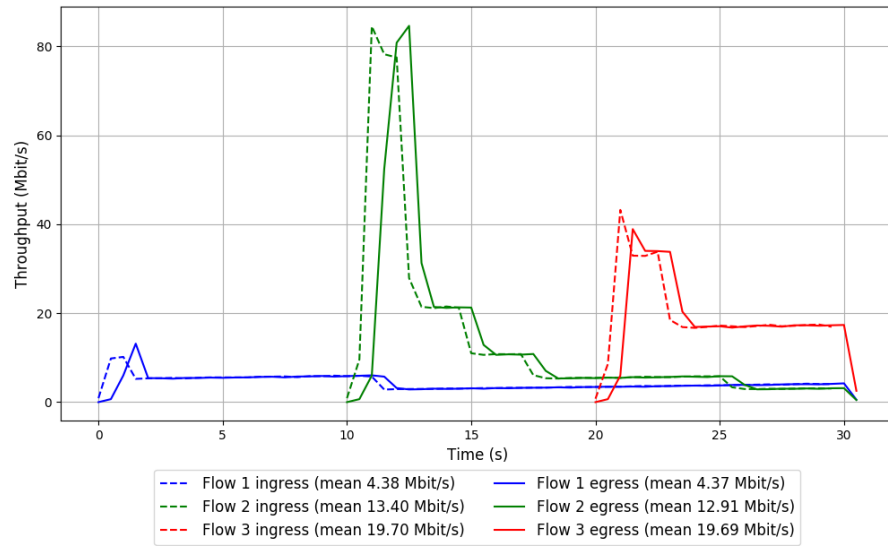
```
Run 3: Statistics of TCP Vegas

Start at: 2020-02-18 02:45:22
End at: 2020-02-18 02:45:52
Local clock offset: -0.138 ms
Remote clock offset: -8.704 ms


# Below is generated by plot.py at 2020-02-18 04:01:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 91.903 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 82.606 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 93.471 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 23.27 Mbit/s
95th percentile per-packet one-way delay: 106.899 ms
Loss rate: 3.24%
```
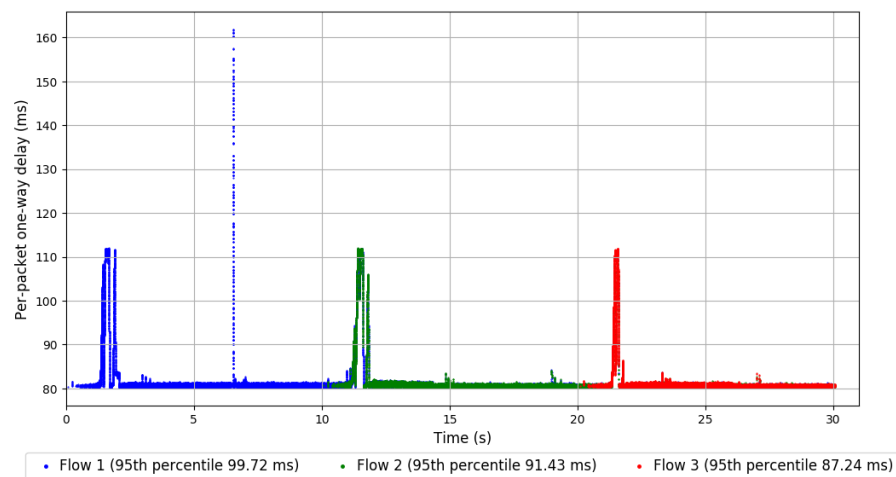
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 12.56 Mbit/s) — Flow 1 egress (mean 12.54 Mbit/s)
Flow 2 ingress (mean 25.61 Mbit/s) — Flow 2 egress (mean 25.15 Mbit/s)
Flow 3 ingress (mean 24.05 Mbit/s) — Flow 3 egress (mean 23.27 Mbit/s)

Flow 1 (95th percentile 82.61 ms)　　Flow 2 (95th percentile 93.47 ms)　　Flow 3 (95th percentile 106.90 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2020-02-18 03:15:28
End at: 2020-02-18 03:15:58
Local clock offset: -0.152 ms
Remote clock offset: -8.243 ms


# Below is generated by plot.py at 2020-02-18 04:01:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.13 Mbit/s
95th percentile per-packet one-way delay: 81.962 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 86.708 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 81.128 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 81.103 ms
Loss rate: 0.05%
```
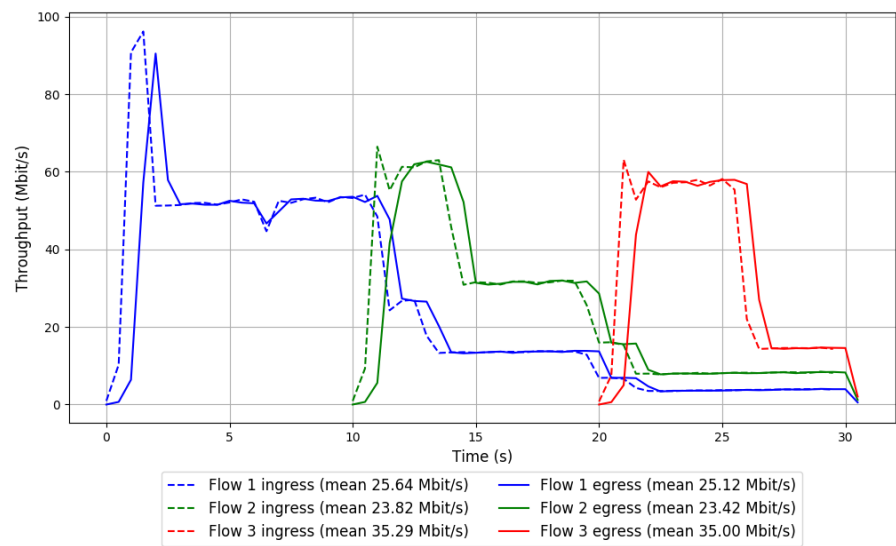
Run 4: Report of TCP Vegas — Data Link
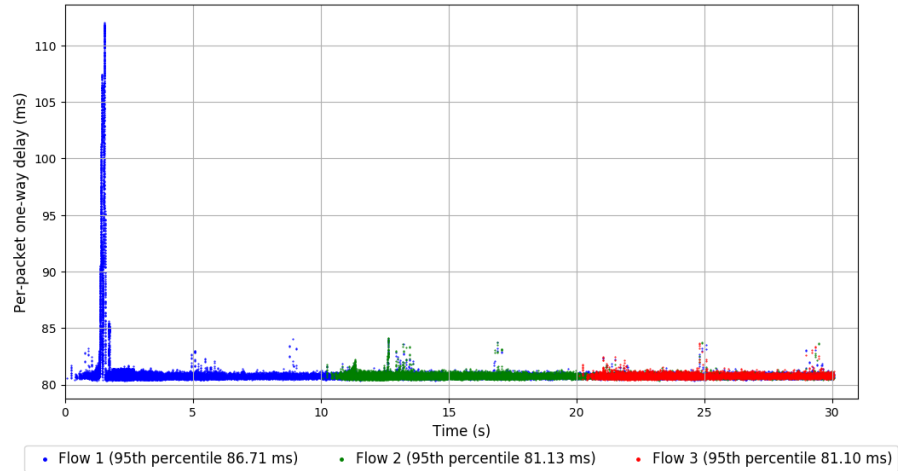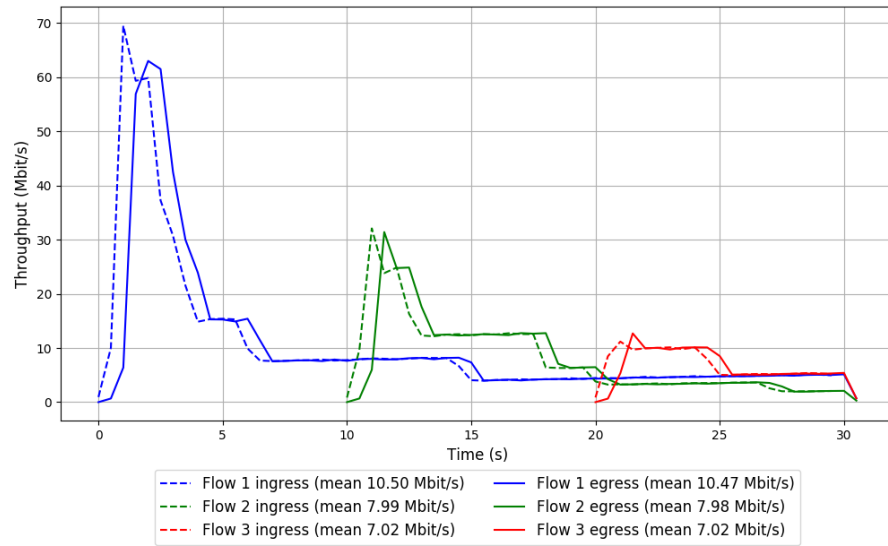
```
Run 5: Statistics of TCP Vegas

Start at: 2020-02-18 03:45:28
End at: 2020-02-18 03:45:58
Local clock offset: -0.198 ms
Remote clock offset: -8.4 ms


# Below is generated by plot.py at 2020-02-18 04:01:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.35 Mbit/s
95th percentile per-packet one-way delay: 94.009 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 99.725 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 23.42 Mbit/s
95th percentile per-packet one-way delay: 91.427 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 87.241 ms
Loss rate: 0.82%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 25.64 Mbit/s) --- Flow 1 egress (mean 25.12 Mbit/s)
Flow 2 ingress (mean 23.82 Mbit/s) --- Flow 2 egress (mean 23.42 Mbit/s)
Flow 3 ingress (mean 35.29 Mbit/s) --- Flow 3 egress (mean 35.00 Mbit/s)

Flow 1 (95th percentile 99.72 ms) · Flow 2 (95th percentile 91.43 ms) · Flow 3 (95th percentile 87.24 ms)
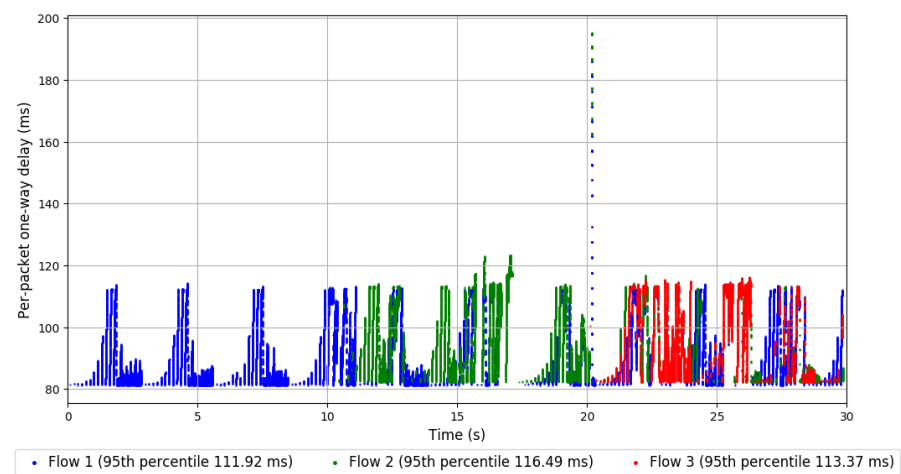
```
Run 1: Statistics of Verus

Start at: 2020-02-18 01:47:31
End at: 2020-02-18 01:48:01
Local clock offset: 0.007 ms
Remote clock offset: -8.343 ms


# Below is generated by plot.py at 2020-02-18 04:01:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.23 Mbit/s
95th percentile per-packet one-way delay: 112.999 ms
Loss rate: 36.58%
-- Flow 1:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 119.749 ms
Loss rate: 47.65%
-- Flow 2:
Average throughput: 20.83 Mbit/s
95th percentile per-packet one-way delay: 112.807 ms
Loss rate: 15.34%
-- Flow 3:
Average throughput: 14.59 Mbit/s
95th percentile per-packet one-way delay: 111.054 ms
Loss rate: 5.19%
```

# Run 1: Report of Verus — Data Link
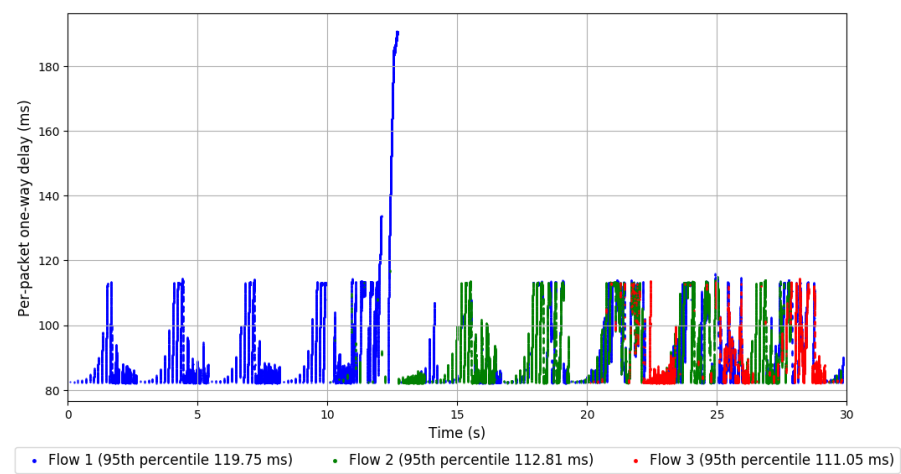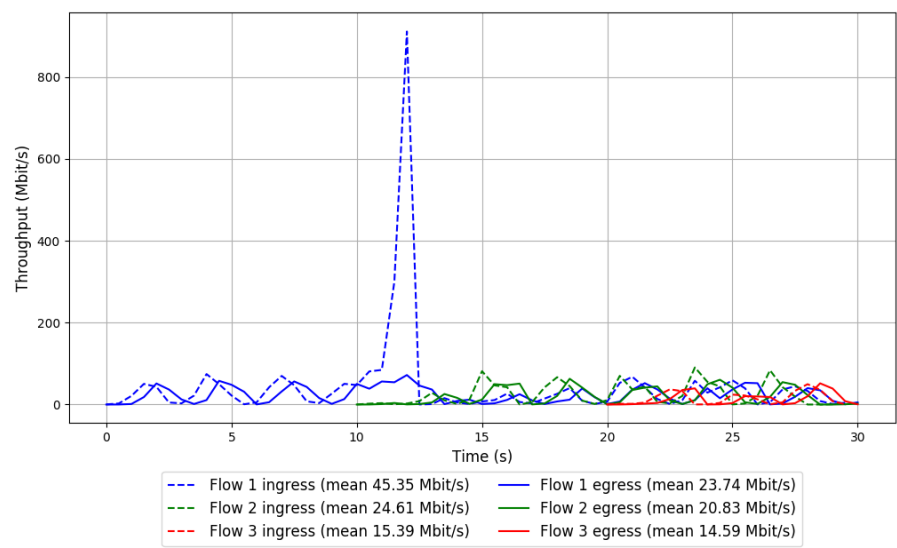
```
Run 2: Statistics of Verus

Start at: 2020-02-18 02:17:46
End at: 2020-02-18 02:18:16
Local clock offset: -0.86 ms
Remote clock offset: -8.004 ms


# Below is generated by plot.py at 2020-02-18 04:02:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.41 Mbit/s
95th percentile per-packet one-way delay: 122.660 ms
Loss rate: 79.39%
-- Flow 1:
Average throughput: 20.11 Mbit/s
95th percentile per-packet one-way delay: 114.351 ms
Loss rate: 54.05%
-- Flow 2:
Average throughput: 34.88 Mbit/s
95th percentile per-packet one-way delay: 131.294 ms
Loss rate: 86.12%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 107.577 ms
Loss rate: 19.37%
```

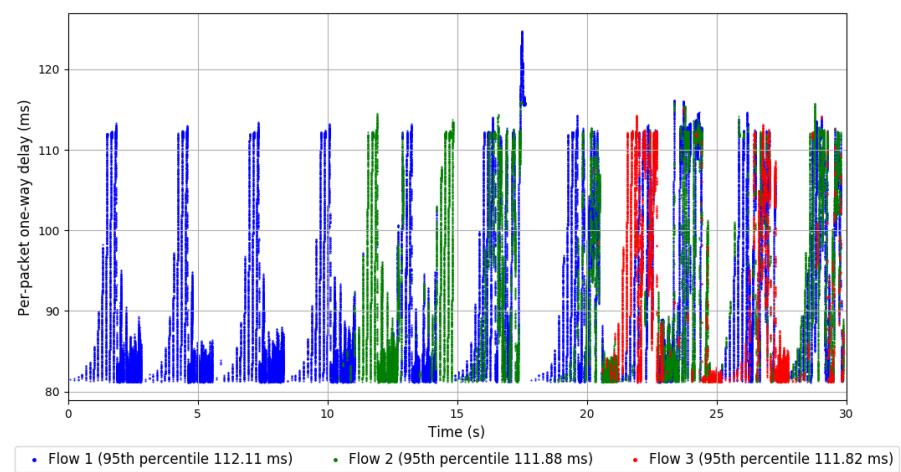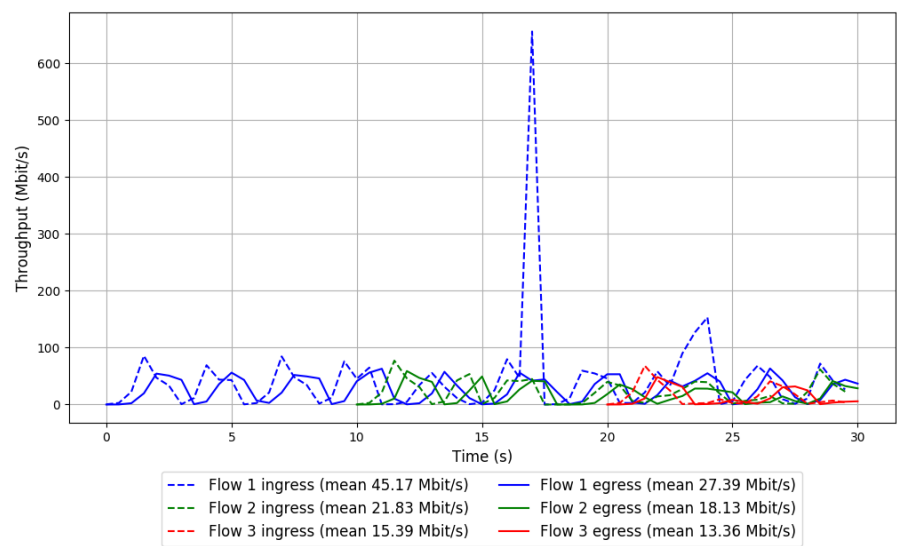# Run 2: Report of Verus — Data Link
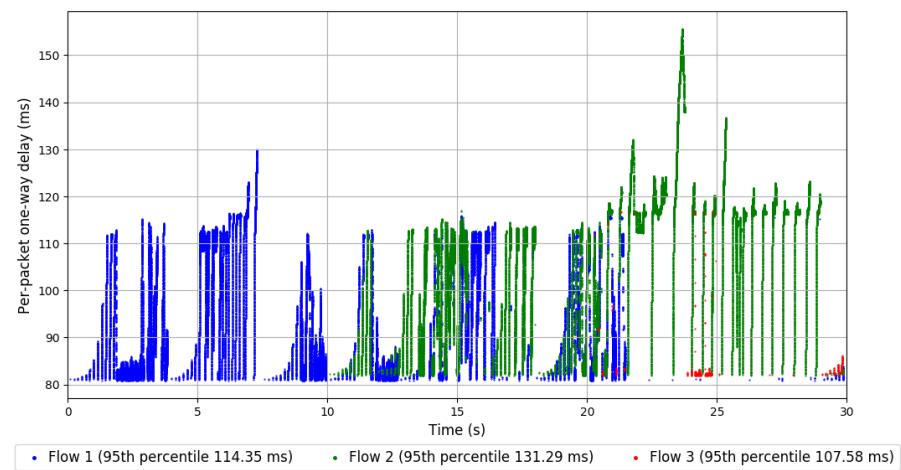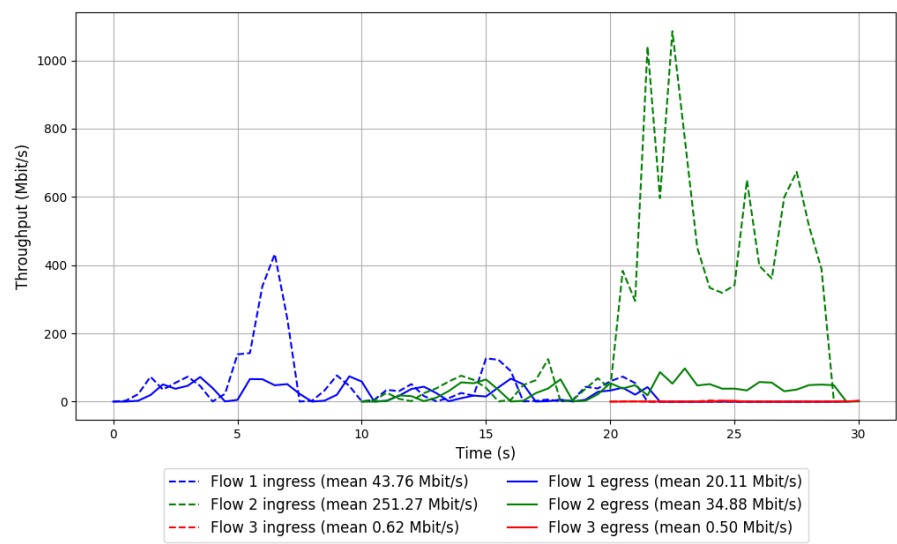
```
Run 3: Statistics of Verus

Start at: 2020-02-18 02:47:55
End at: 2020-02-18 02:48:25
Local clock offset: -0.906 ms
Remote clock offset: -8.805 ms


# Below is generated by plot.py at 2020-02-18 04:02:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.61 Mbit/s
95th percentile per-packet one-way delay: 112.944 ms
Loss rate: 32.05%
-- Flow 1:
Average throughput: 22.91 Mbit/s
95th percentile per-packet one-way delay: 111.921 ms
Loss rate: 15.26%
-- Flow 2:
Average throughput: 19.25 Mbit/s
95th percentile per-packet one-way delay: 116.488 ms
Loss rate: 48.73%
-- Flow 3:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 113.372 ms
Loss rate: 35.15%
```

## Run 3: Report of Verus — Data Link
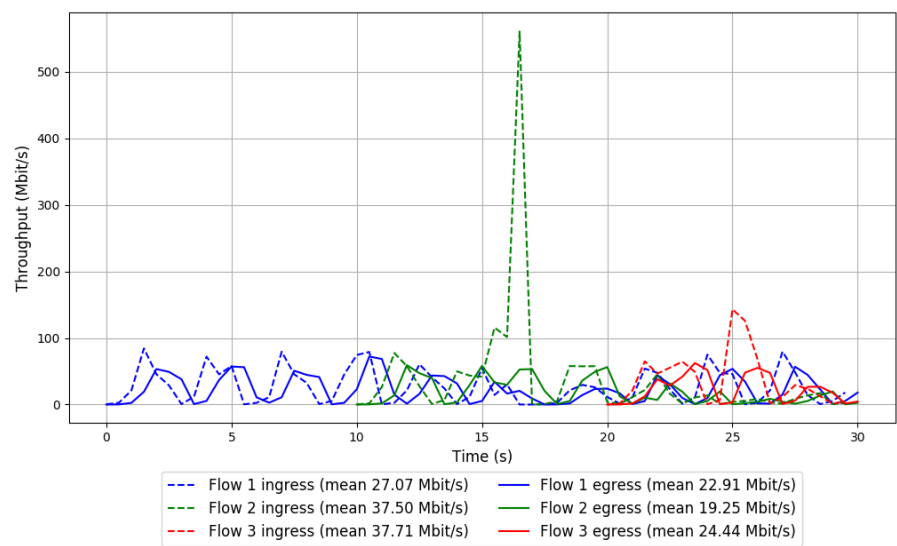
```
Run 4: Statistics of Verus

Start at: 2020-02-18 03:18:00
End at: 2020-02-18 03:18:30
Local clock offset: -0.868 ms
Remote clock offset: -8.169 ms


# Below is generated by plot.py at 2020-02-18 04:02:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.78 Mbit/s
95th percentile per-packet one-way delay: 111.961 ms
Loss rate: 32.28%
-- Flow 1:
Average throughput: 27.39 Mbit/s
95th percentile per-packet one-way delay: 112.114 ms
Loss rate: 39.35%
-- Flow 2:
Average throughput: 18.13 Mbit/s
95th percentile per-packet one-way delay: 111.875 ms
Loss rate: 16.93%
-- Flow 3:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 111.823 ms
Loss rate: 13.16%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 45.17 Mbit/s) — — — Flow 1 egress (mean 27.39 Mbit/s)
Flow 2 ingress (mean 21.83 Mbit/s) — — — Flow 2 egress (mean 18.13 Mbit/s)
Flow 3 ingress (mean 15.39 Mbit/s) — — — Flow 3 egress (mean 13.36 Mbit/s)

Flow 1 (95th percentile 112.11 ms)   Flow 2 (95th percentile 111.88 ms)   Flow 3 (95th percentile 111.82 ms)

```
Run 5: Statistics of Verus

Start at: 2020-02-18 03:48:03
End at: 2020-02-18 03:48:33
Local clock offset: -0.874 ms
Remote clock offset: -8.293 ms


# Below is generated by plot.py at 2020-02-18 04:02:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.35 Mbit/s
95th percentile per-packet one-way delay: 115.629 ms
Loss rate: 61.47%
-- Flow 1:
Average throughput: 22.59 Mbit/s
95th percentile per-packet one-way delay: 115.620 ms
Loss rate: 59.13%
-- Flow 2:
Average throughput: 21.79 Mbit/s
95th percentile per-packet one-way delay: 115.662 ms
Loss rate: 68.19%
-- Flow 3:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 112.829 ms
Loss rate: 19.12%
```

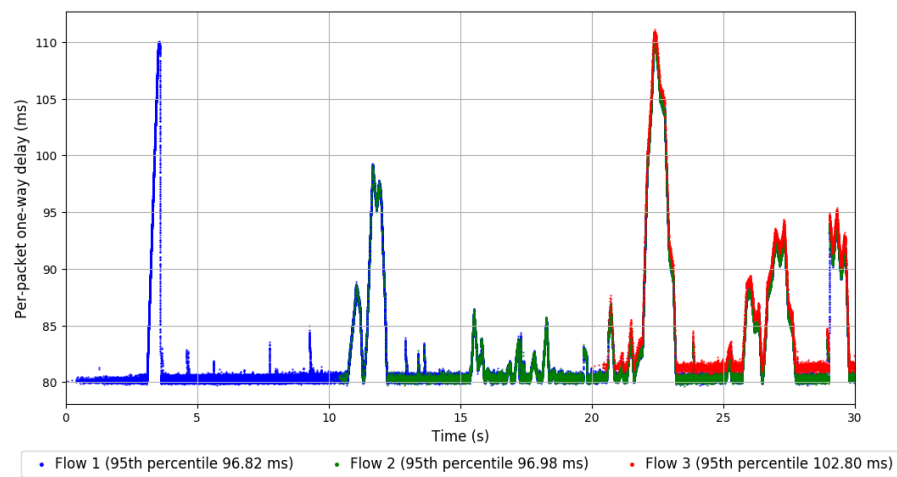## Run 5: Report of Verus — Data Link
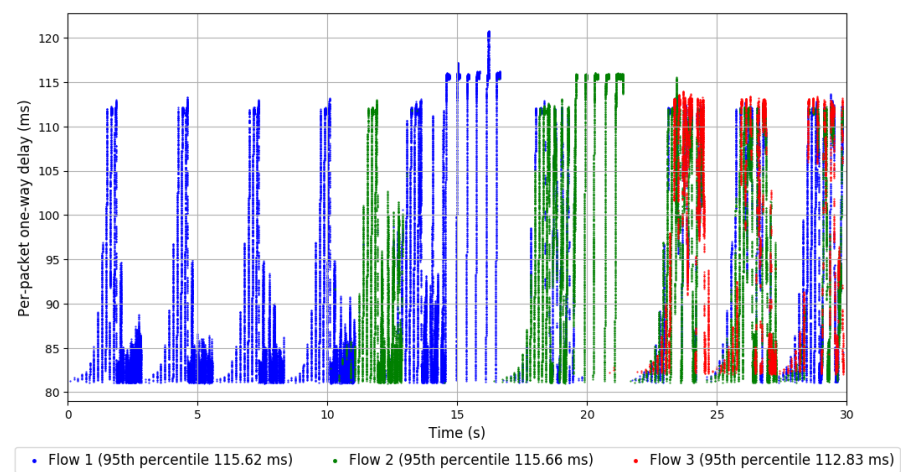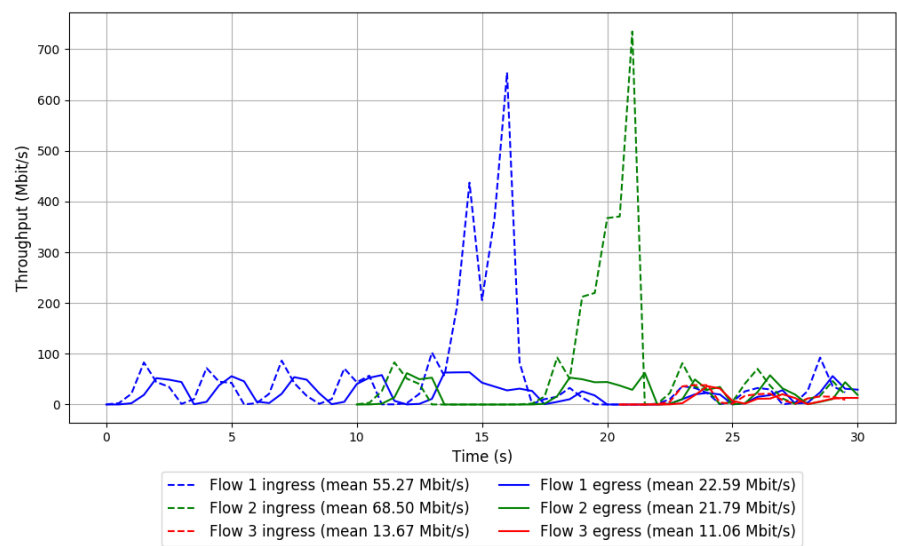
```
Run 1: Statistics of PCC-Vivace

Start at: 2020-02-18 01:41:07
End at: 2020-02-18 01:41:37
Local clock offset: -0.205 ms
Remote clock offset: -8.62 ms


# Below is generated by plot.py at 2020-02-18 04:02:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.01 Mbit/s
95th percentile per-packet one-way delay: 111.433 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 61.63 Mbit/s
95th percentile per-packet one-way delay: 110.750 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 111.846 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 111.897 ms
Loss rate: 1.27%
```

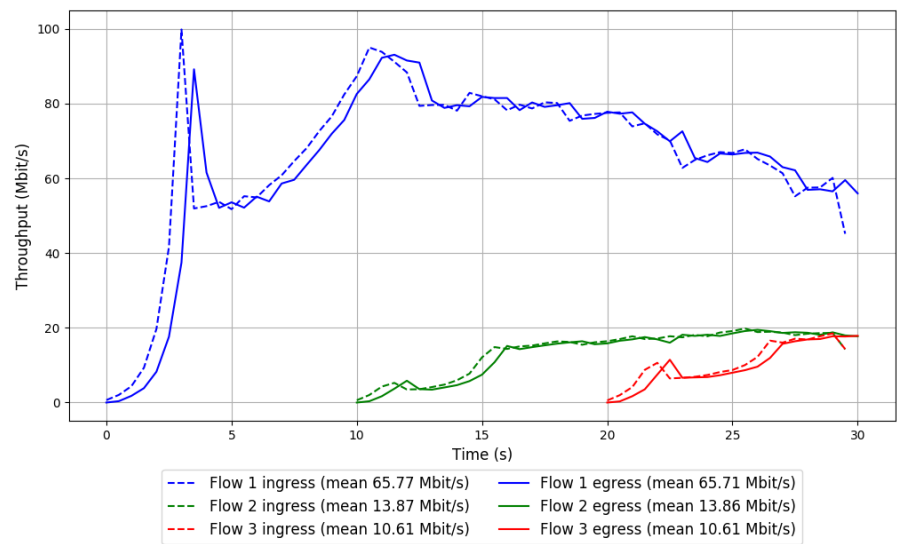# Run 1: Report of PCC-Vivace — Data Link
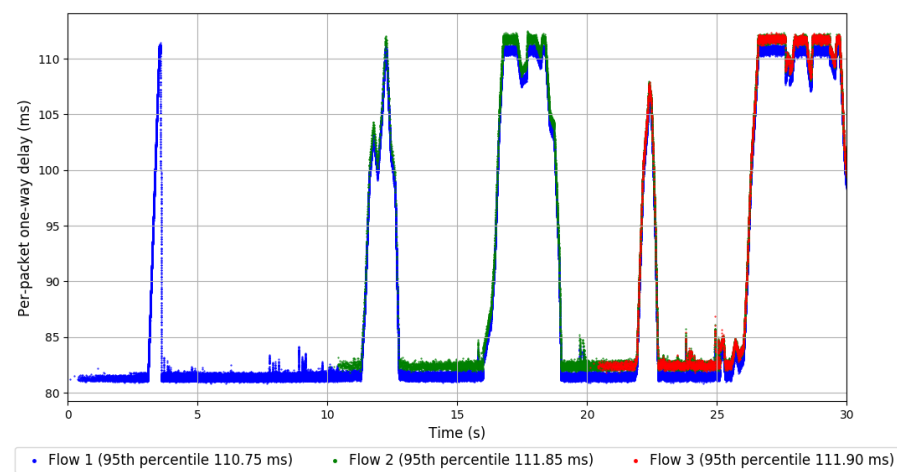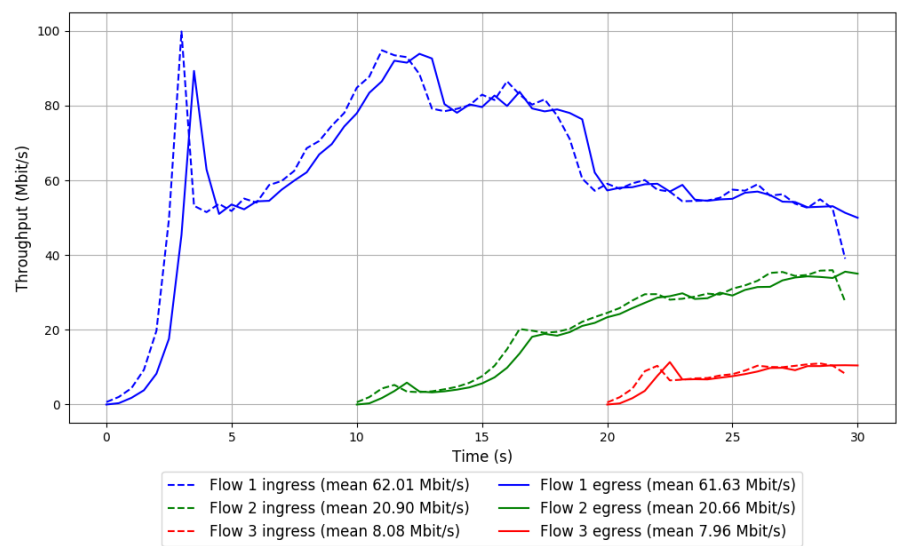
```
Run 2: Statistics of PCC-Vivace

Start at: 2020-02-18 02:11:22
End at: 2020-02-18 02:11:52
Local clock offset: 0.012 ms
Remote clock offset: -8.324 ms


# Below is generated by plot.py at 2020-02-18 04:02:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.43 Mbit/s
95th percentile per-packet one-way delay: 96.950 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 65.71 Mbit/s
95th percentile per-packet one-way delay: 96.822 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 13.86 Mbit/s
95th percentile per-packet one-way delay: 96.976 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 102.801 ms
Loss rate: 0.08%
```

Run 2: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 65.77 Mbit/s) — Flow 1 egress (mean 65.71 Mbit/s)
Flow 2 ingress (mean 13.87 Mbit/s) — Flow 2 egress (mean 13.86 Mbit/s)
Flow 3 ingress (mean 10.61 Mbit/s) — Flow 3 egress (mean 10.61 Mbit/s)

Flow 1 (95th percentile 96.82 ms) • Flow 2 (95th percentile 96.98 ms) • Flow 3 (95th percentile 102.80 ms)
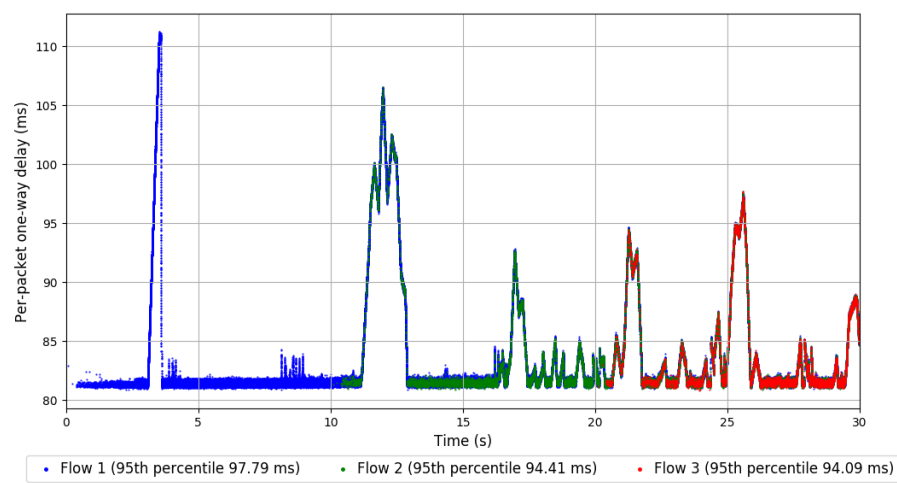
```
Run 3: Statistics of PCC-Vivace

Start at: 2020-02-18 02:41:35
End at: 2020-02-18 02:42:05
Local clock offset: -0.136 ms
Remote clock offset: -8.632 ms


# Below is generated by plot.py at 2020-02-18 04:02:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 107.574 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 69.01 Mbit/s
95th percentile per-packet one-way delay: 108.803 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 13.84 Mbit/s
95th percentile per-packet one-way delay: 91.492 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 87.502 ms
Loss rate: 0.00%
```

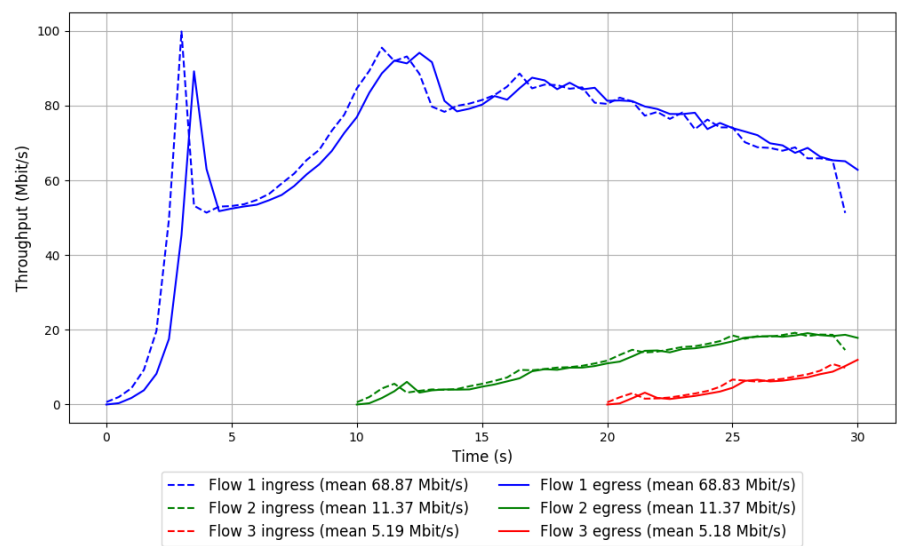## Run 3: Report of PCC-Vivace — Data Link
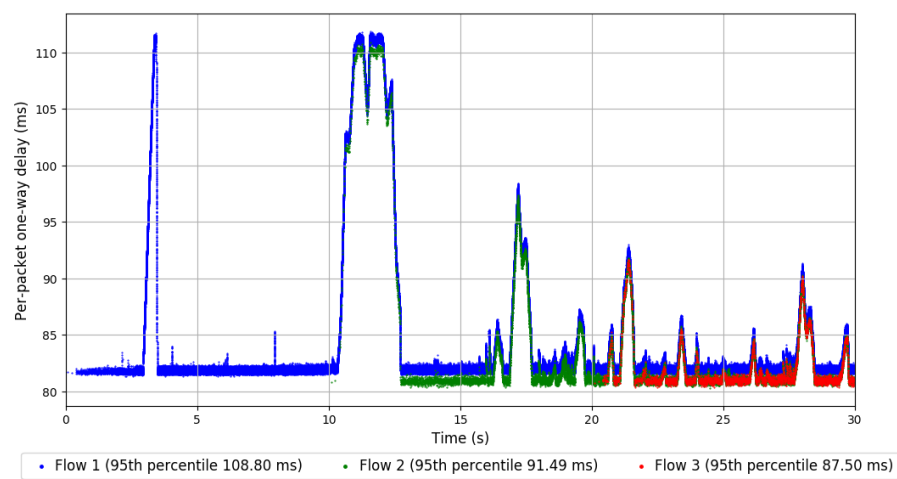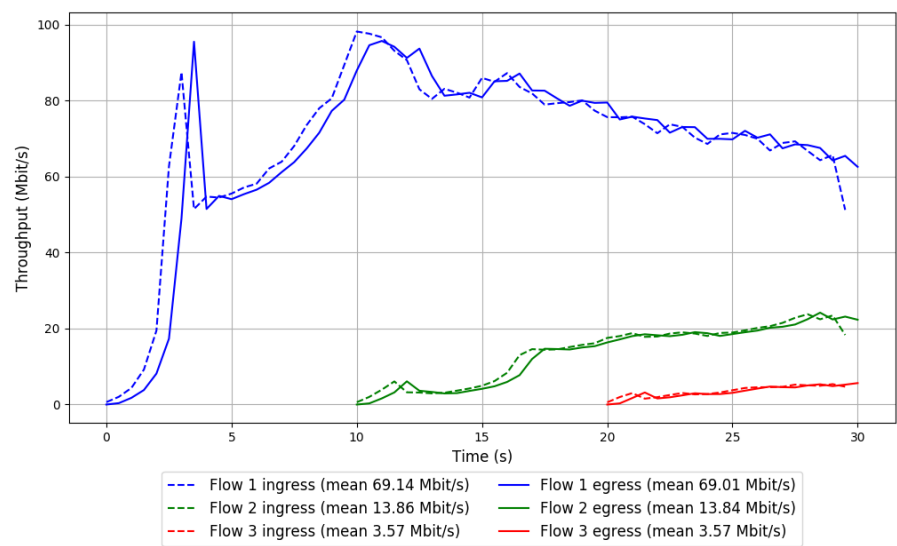
```
Run 4: Statistics of PCC-Vivace

Start at: 2020-02-18 03:11:41
End at: 2020-02-18 03:12:11
Local clock offset: -0.942 ms
Remote clock offset: -8.465 ms


# Below is generated by plot.py at 2020-02-18 04:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.11 Mbit/s
95th percentile per-packet one-way delay: 97.220 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 68.83 Mbit/s
95th percentile per-packet one-way delay: 97.789 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 11.37 Mbit/s
95th percentile per-packet one-way delay: 94.412 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 94.089 ms
Loss rate: 0.04%
```

Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2020-02-18 03:41:42
End at: 2020-02-18 03:42:12
Local clock offset: -0.137 ms
Remote clock offset: -8.332 ms


# Below is generated by plot.py at 2020-02-18 04:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.31 Mbit/s
95th percentile per-packet one-way delay: 106.988 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 60.32 Mbit/s
95th percentile per-packet one-way delay: 108.358 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 98.862 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 94.766 ms
Loss rate: 0.05%
```

Run 5: Report of PCC-Vivace — Data Link
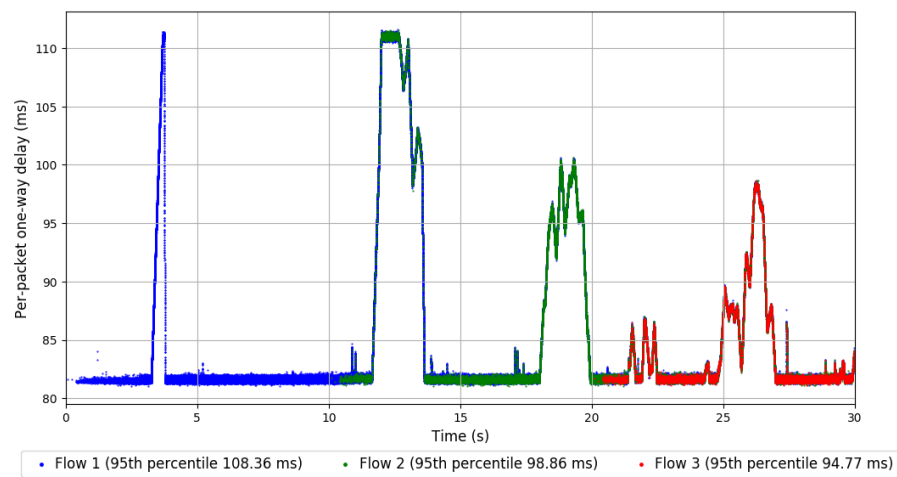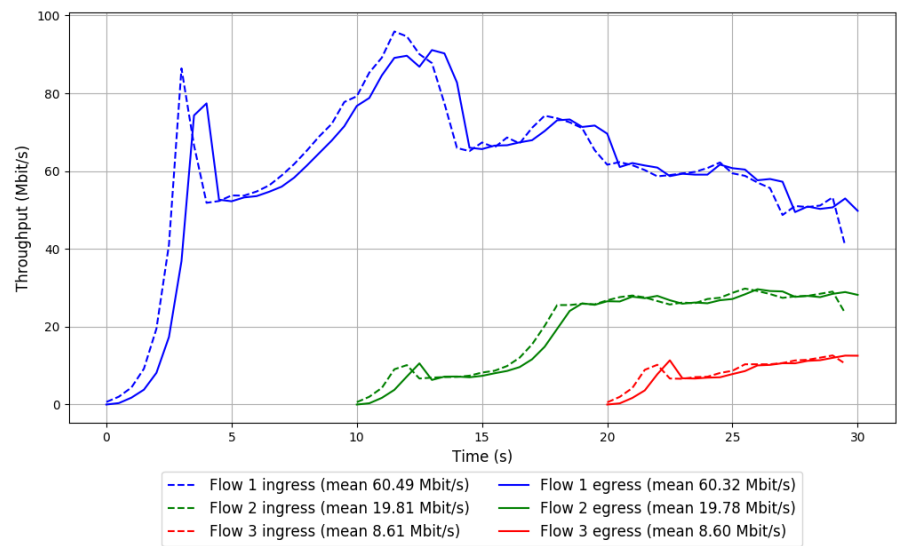
```
Run 1: Statistics of WebRTC media

Start at: 2020-02-18 01:34:48
End at: 2020-02-18 01:35:18
Local clock offset: -0.394 ms
Remote clock offset: -8.569 ms


# Below is generated by plot.py at 2020-02-18 04:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 82.857 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 82.118 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 83.134 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 82.500 ms
Loss rate: 0.00%
```

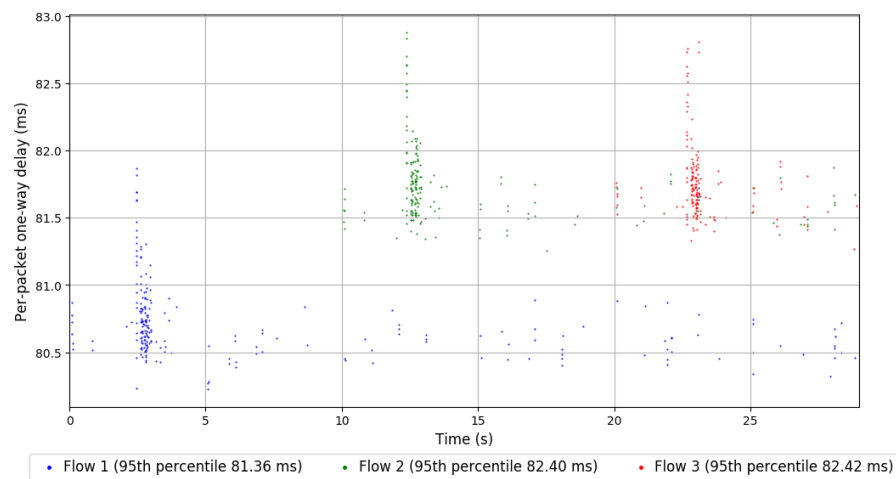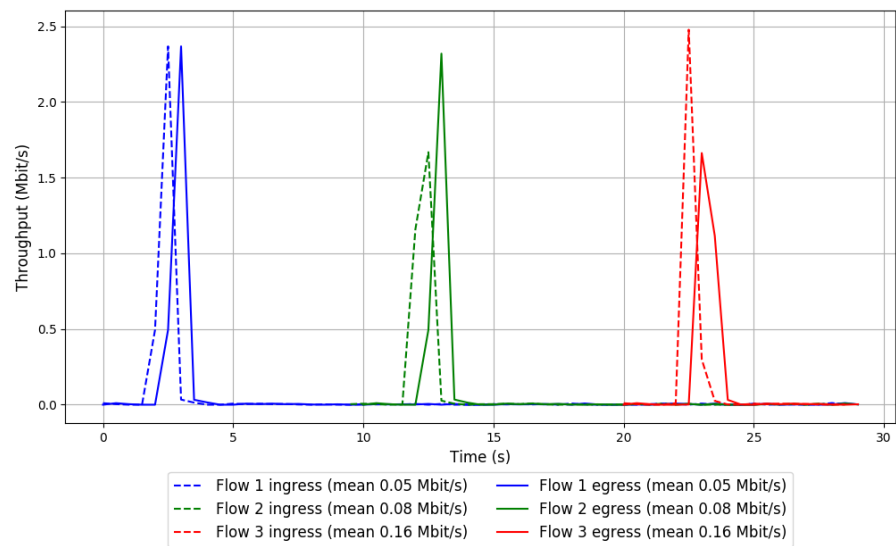Run 1: Report of WebRTC media — Data Link
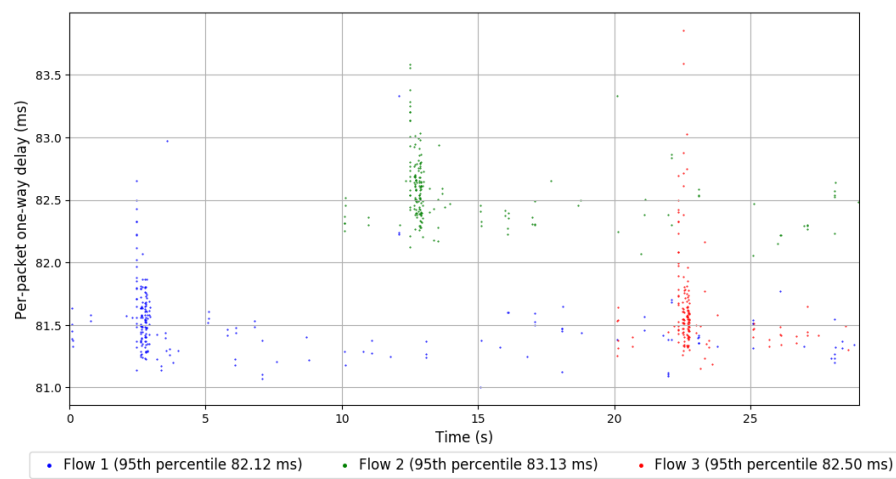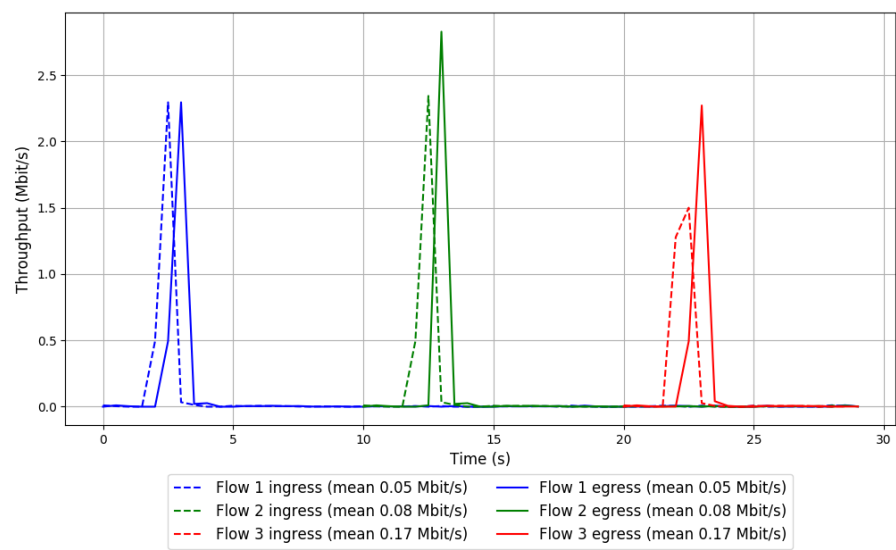
```
Run 2: Statistics of WebRTC media

Start at: 2020-02-18 02:04:55
End at: 2020-02-18 02:05:25
Local clock offset: 0.29 ms
Remote clock offset: -7.995 ms


# Below is generated by plot.py at 2020-02-18 04:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 82.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.357 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 82.399 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 82.420 ms
Loss rate: 0.00%
```

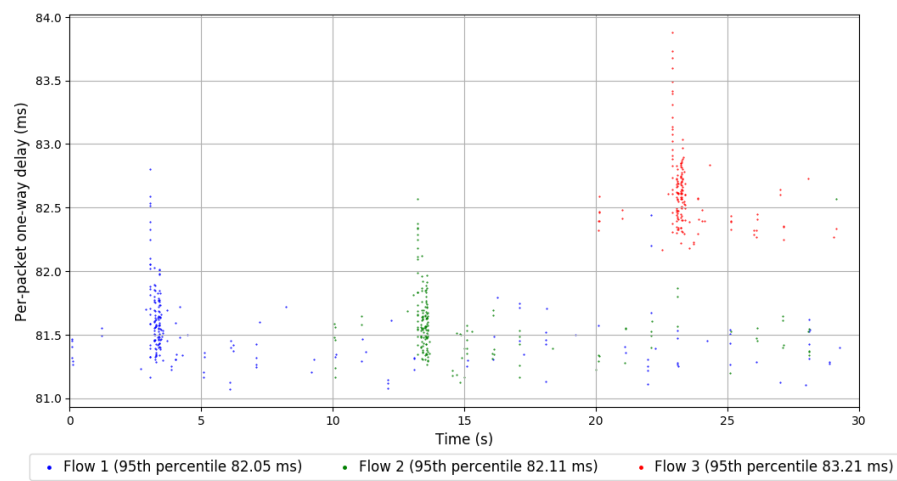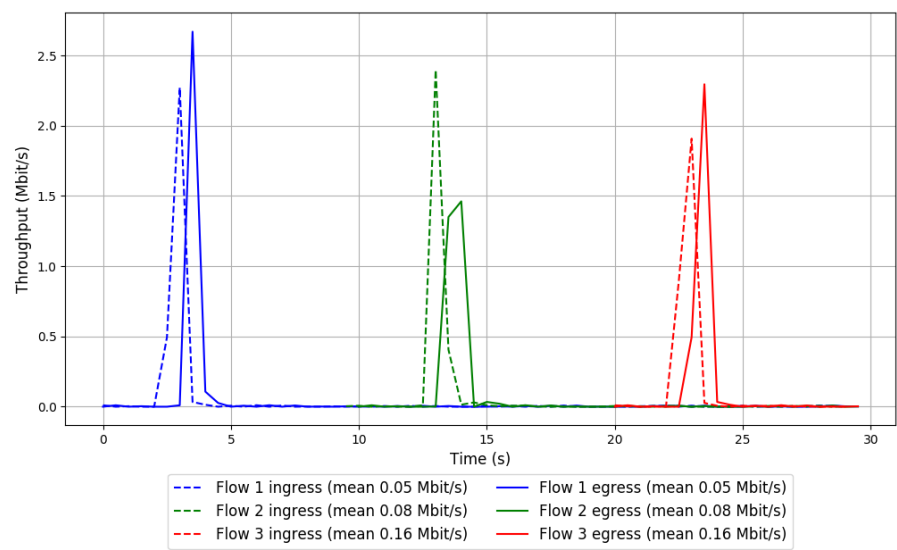Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2020-02-18 02:35:16
End at: 2020-02-18 02:35:46
Local clock offset: -0.886 ms
Remote clock offset: -8.517 ms


# Below is generated by plot.py at 2020-02-18 04:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 82.822 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 82.051 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 82.111 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 83.209 ms
Loss rate: 0.00%
```

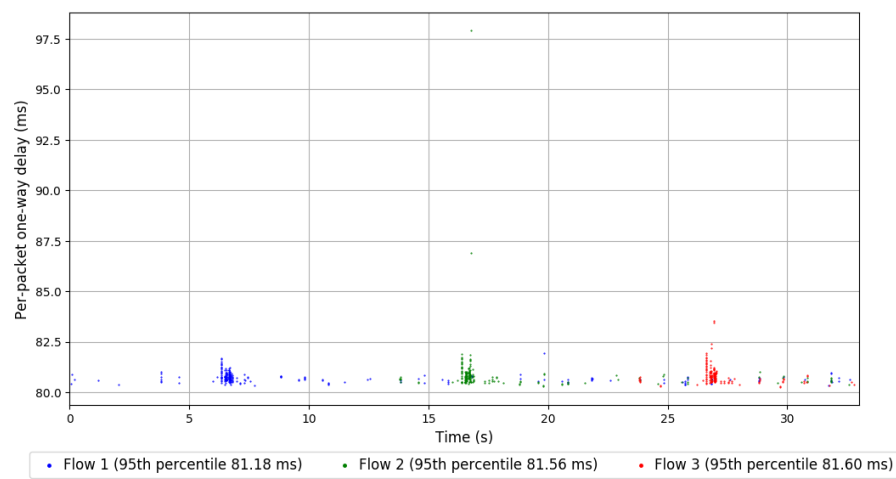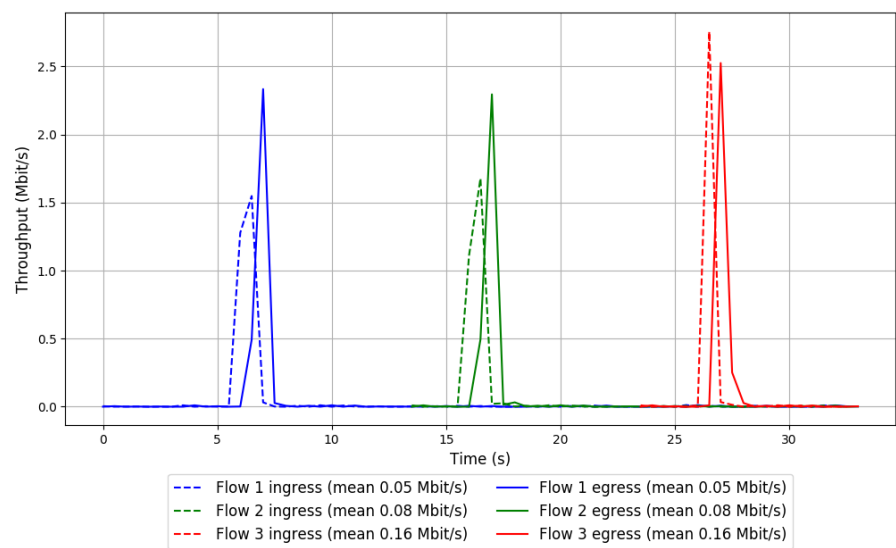Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2020-02-18 03:05:21
End at: 2020-02-18 03:05:51
Local clock offset: -0.864 ms
Remote clock offset: -9.246 ms


# Below is generated by plot.py at 2020-02-18 04:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 81.426 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.181 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 81.556 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 81.602 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2020-02-18 03:35:23
End at: 2020-02-18 03:35:53
Local clock offset: -0.151 ms
Remote clock offset: -8.835 ms


# Below is generated by plot.py at 2020-02-18 04:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 81.555 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.680 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 81.764 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 80.769 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link