Pantheon Report

Generated at 2019-01-17 14:27:49 (UTC).

Data path: AWS Brazil 2 on `ens5` (*local*) →Colombia on `p4p1` (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.
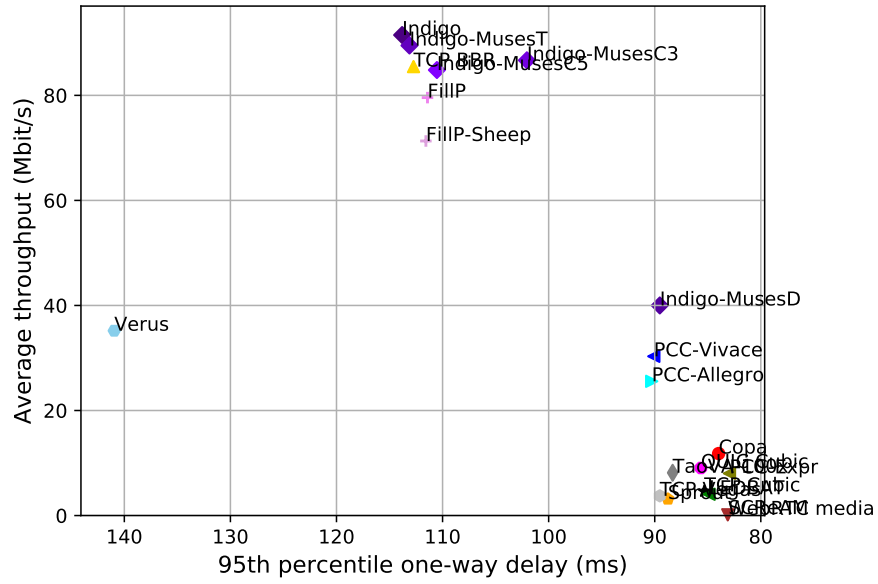
```
System info:
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
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
```
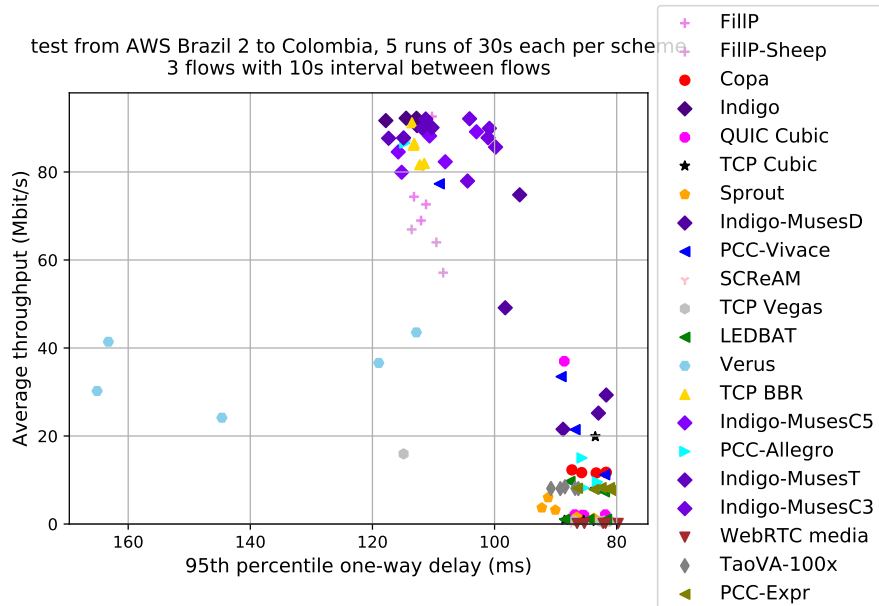
```
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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

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	50.45	37.18	30.85	111.73	111.73	111.72	12.84	19.12	25.93
Copa	5	8.60	4.25	1.15	84.35	82.86	83.83	75.33	79.62	76.53
TCP Cubic	5	2.54	2.33	1.56	84.71	83.85	83.81	3.58	3.86	3.51
FillP	5	46.18	38.38	23.70	110.61	111.34	111.46	17.76	25.86	23.89
FillP-Sheep	5	35.65	44.50	18.26	108.58	111.61	110.91	6.68	8.93	8.27
Indigo	5	66.07	26.43	25.01	113.30	113.46	113.07	11.59	30.43	67.27
Indigo-MusesC3	5	74.34	16.41	5.47	101.26	103.88	104.52	3.61	3.50	3.68
Indigo-MusesC5	5	73.55	15.28	4.36	110.39	110.74	111.08	4.97	9.60	6.79
Indigo-MusesD	5	26.00	18.99	5.34	89.12	89.10	88.03	3.58	3.53	3.45
Indigo-MusesT	5	81.20	10.72	4.34	112.99	113.67	112.61	5.62	5.48	6.72
LEDBAT	5	2.25	2.00	1.45	84.30	84.68	84.28	2.63	2.51	2.70
PCC-Allegro	5	18.12	8.82	4.76	90.09	89.63	89.73	4.09	4.17	4.42
PCC-Expr	5	0.01	8.75	6.68	82.88	82.95	82.97	85.71	37.02	37.64
QUIC Cubic	5	4.23	4.38	5.88	84.31	84.04	88.71	3.58	3.16	3.80
SCReAM	5	0.13	0.15	0.16	82.19	81.85	82.93	1.70	1.76	2.56
Sprout	5	1.58	1.68	1.38	88.14	88.30	86.92	3.44	3.13	3.88
TaoVA-100x	5	0.00	9.48	5.52	82.98	91.47	82.17	95.92	37.19	31.98
TCP Vegas	5	1.81	1.32	3.19	89.18	82.91	89.06	5.00	3.52	5.04
Verus	5	17.24	15.14	25.49	136.96	128.81	129.83	51.22	52.51	59.55
PCC-Vivace	5	19.55	12.46	7.52	88.62	90.84	88.29	3.46	3.41	3.45
WebRTC media	5	0.05	0.04	0.04	82.36	83.05	82.97	2.38	2.50	2.70

```
Run 1: Statistics of TCP BBR

Start at: 2019-01-17 12:30:40
End at: 2019-01-17 12:31:10
Local clock offset: -3.666 ms
Remote clock offset: 2.599 ms


# Below is generated by plot.py at 2019-01-17 14:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.96 Mbit/s
95th percentile per-packet one-way delay: 111.503 ms
Loss rate: 17.23%
-- Flow 1:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 111.596 ms
Loss rate: 13.88%
-- Flow 2:
Average throughput: 38.15 Mbit/s
95th percentile per-packet one-way delay: 110.124 ms
Loss rate: 18.79%
-- Flow 3:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 109.905 ms
Loss rate: 25.14%
```
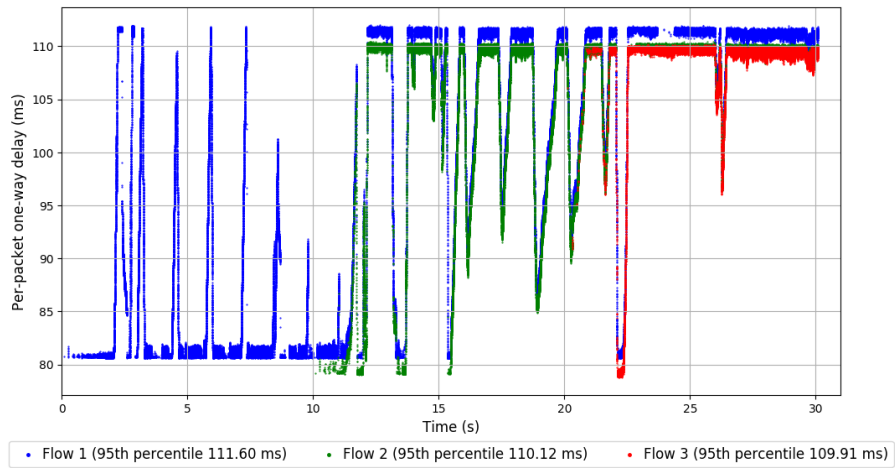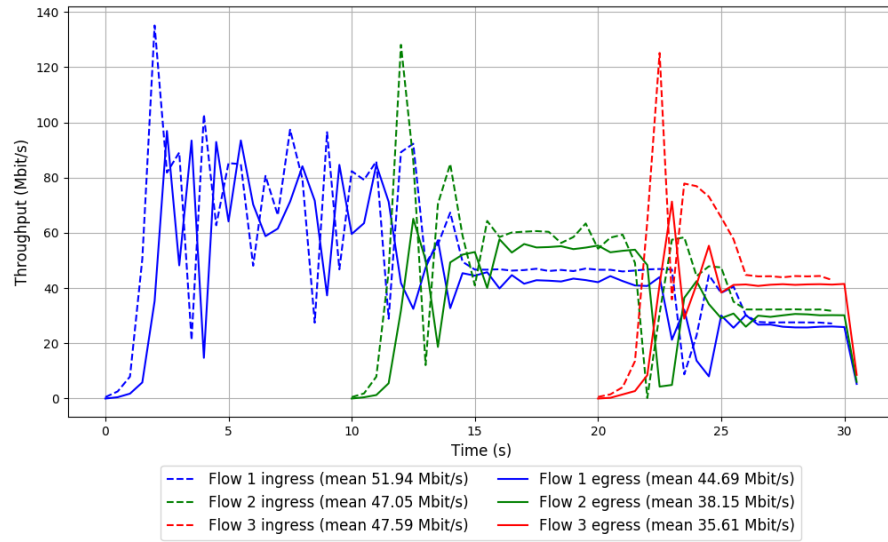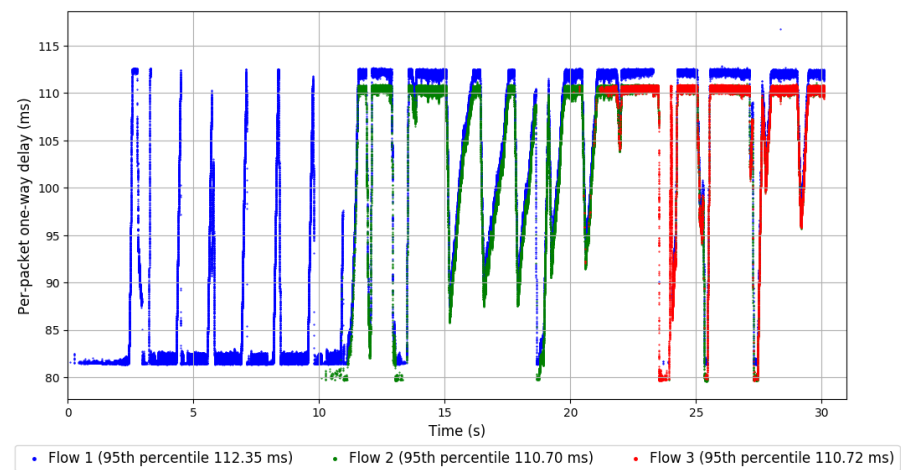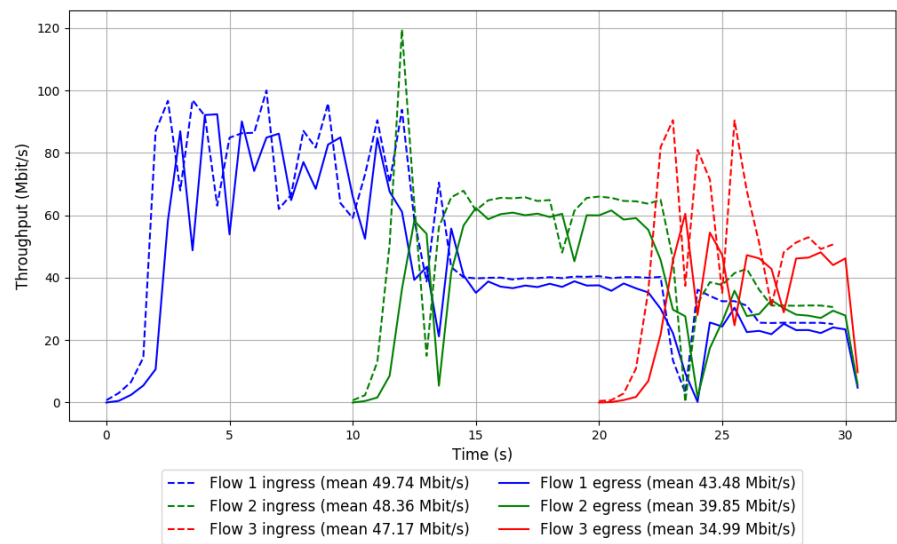
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2019-01-17 12:56:59
End at: 2019-01-17 12:57:29
Local clock offset: -5.124 ms
Remote clock offset: 2.346 ms


# Below is generated by plot.py at 2019-01-17 14:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 112.249 ms
Loss rate: 16.28%
-- Flow 1:
Average throughput: 43.48 Mbit/s
95th percentile per-packet one-way delay: 112.352 ms
Loss rate: 12.50%
-- Flow 2:
Average throughput: 39.85 Mbit/s
95th percentile per-packet one-way delay: 110.704 ms
Loss rate: 17.47%
-- Flow 3:
Average throughput: 34.99 Mbit/s
95th percentile per-packet one-way delay: 110.723 ms
Loss rate: 25.82%
```
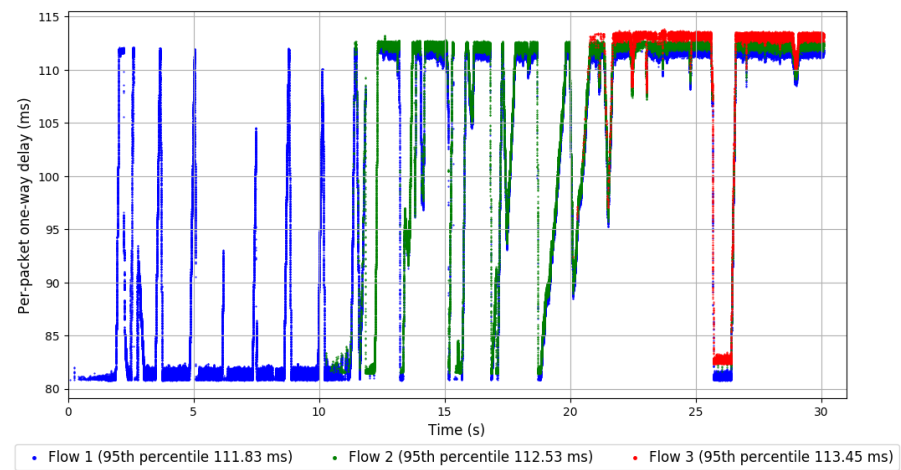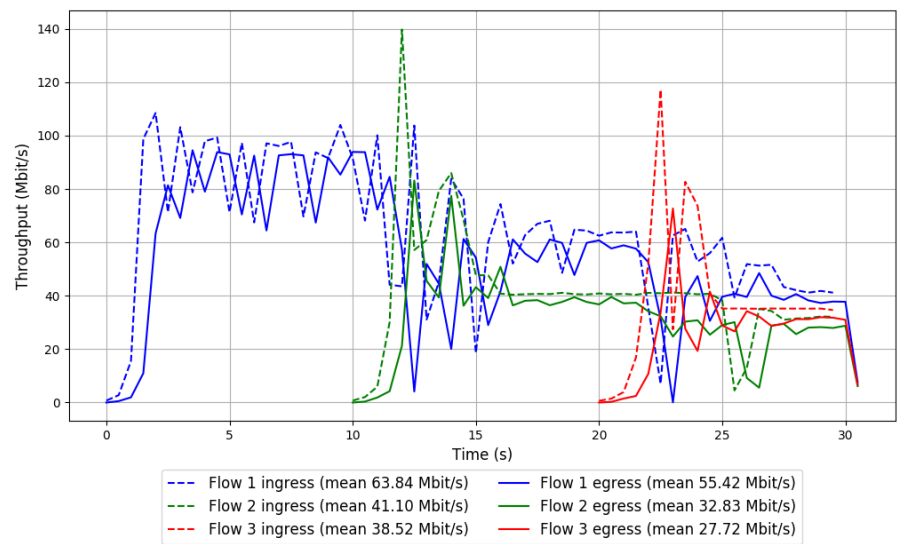
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 49.74 Mbit/s) --- Flow 1 egress (mean 43.48 Mbit/s)
Flow 2 ingress (mean 48.36 Mbit/s) --- Flow 2 egress (mean 39.85 Mbit/s)
Flow 3 ingress (mean 47.17 Mbit/s) --- Flow 3 egress (mean 34.99 Mbit/s)

Flow 1 (95th percentile 112.35 ms)   Flow 2 (95th percentile 110.70 ms)   Flow 3 (95th percentile 110.72 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2019-01-17 13:23:18
End at: 2019-01-17 13:23:48
Local clock offset: -5.121 ms
Remote clock offset: 1.856 ms


# Below is generated by plot.py at 2019-01-17 14:21:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 113.167 ms
Loss rate: 16.77%
-- Flow 1:
Average throughput: 55.42 Mbit/s
95th percentile per-packet one-way delay: 111.827 ms
Loss rate: 13.10%
-- Flow 2:
Average throughput: 32.83 Mbit/s
95th percentile per-packet one-way delay: 112.526 ms
Loss rate: 20.11%
-- Flow 3:
Average throughput: 27.72 Mbit/s
95th percentile per-packet one-way delay: 113.450 ms
Loss rate: 27.89%
```
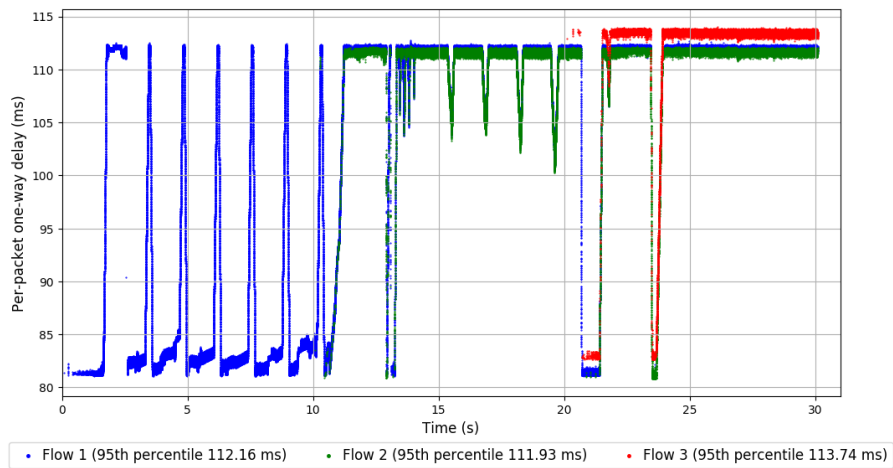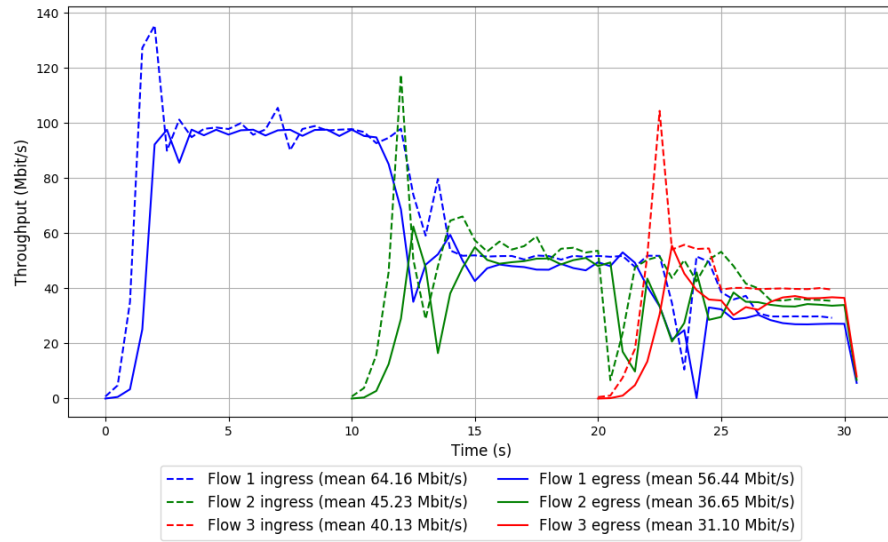
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 63.84 Mbit/s) --- Flow 1 egress (mean 55.42 Mbit/s)
Flow 2 ingress (mean 41.10 Mbit/s) --- Flow 2 egress (mean 32.83 Mbit/s)
Flow 3 ingress (mean 38.52 Mbit/s) --- Flow 3 egress (mean 27.72 Mbit/s)

Flow 1 (95th percentile 111.83 ms) • Flow 2 (95th percentile 112.53 ms) • Flow 3 (95th percentile 113.45 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-01-17 13:49:42
End at: 2019-01-17 13:50:12
Local clock offset: -4.879 ms
Remote clock offset: 2.303 ms


# Below is generated by plot.py at 2019-01-17 14:21:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 113.517 ms
Loss rate: 15.19%
-- Flow 1:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 112.162 ms
Loss rate: 11.95%
-- Flow 2:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 111.932 ms
Loss rate: 18.85%
-- Flow 3:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 113.738 ms
Loss rate: 22.49%
```
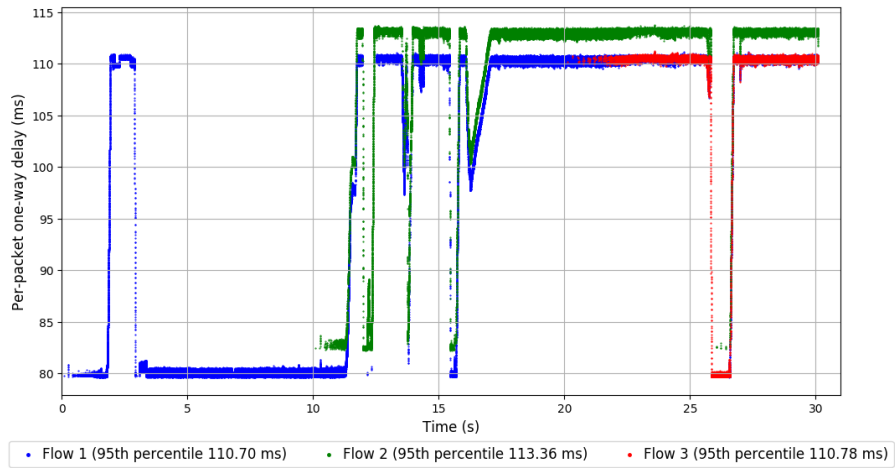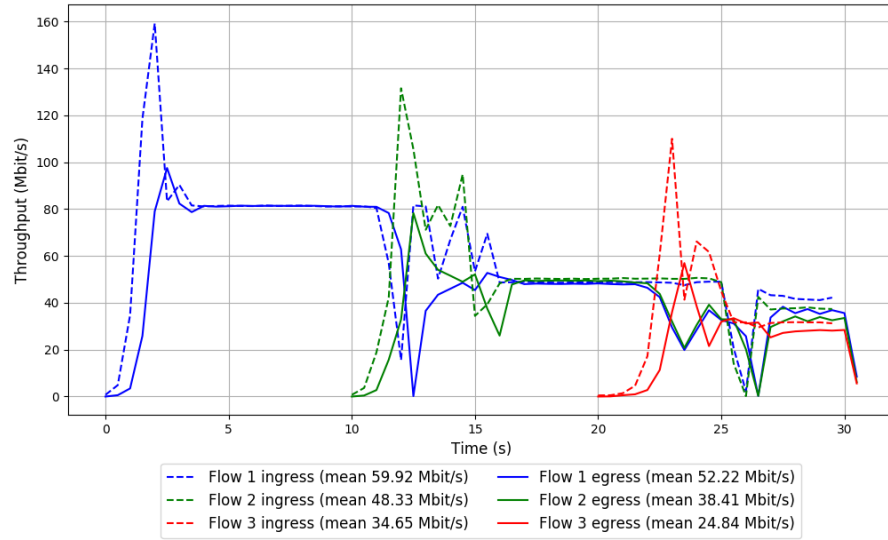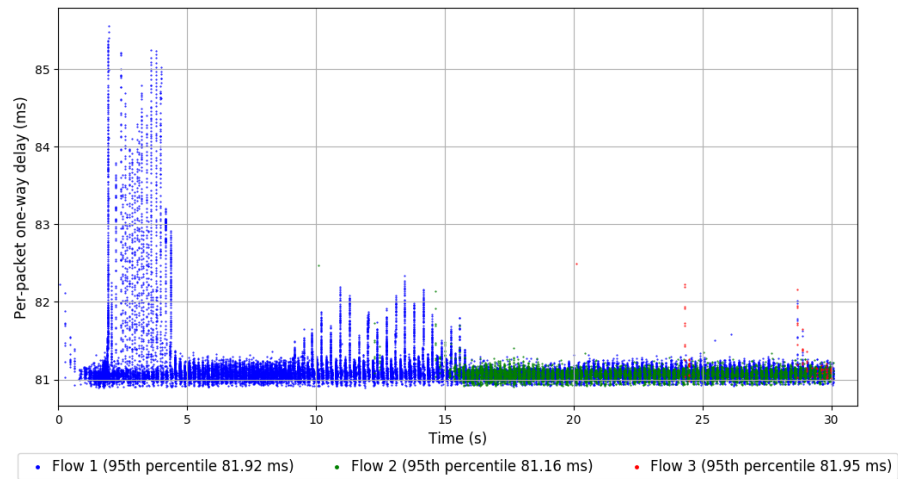
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 64.16 Mbit/s) — — Flow 1 egress (mean 56.44 Mbit/s)
Flow 2 ingress (mean 45.23 Mbit/s) — — Flow 2 egress (mean 36.65 Mbit/s)
Flow 3 ingress (mean 40.13 Mbit/s) — — Flow 3 egress (mean 31.10 Mbit/s)

Flow 1 (95th percentile 112.16 ms) • Flow 2 (95th percentile 111.93 ms) • Flow 3 (95th percentile 113.74 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2019-01-17 14:16:27
End at: 2019-01-17 14:16:57
Local clock offset: -4.134 ms
Remote clock offset: 0.805 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.07 Mbit/s
95th percentile per-packet one-way delay: 113.255 ms
Loss rate: 16.86%
-- Flow 1:
Average throughput: 52.22 Mbit/s
95th percentile per-packet one-way delay: 110.701 ms
Loss rate: 12.76%
-- Flow 2:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 113.365 ms
Loss rate: 20.40%
-- Flow 3:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 110.775 ms
Loss rate: 28.30%
```
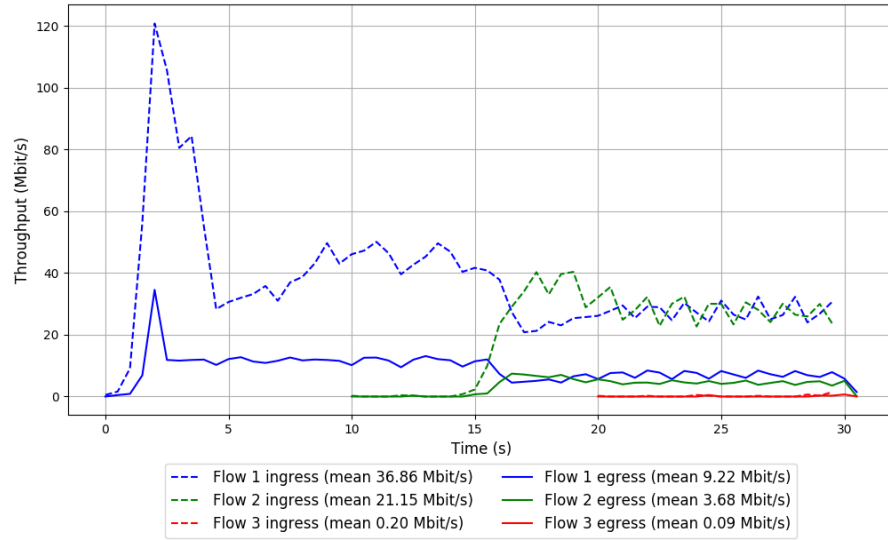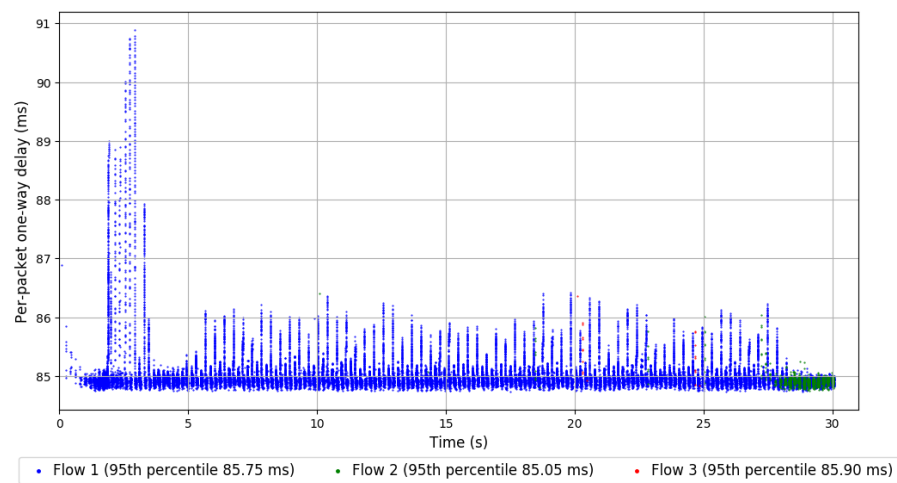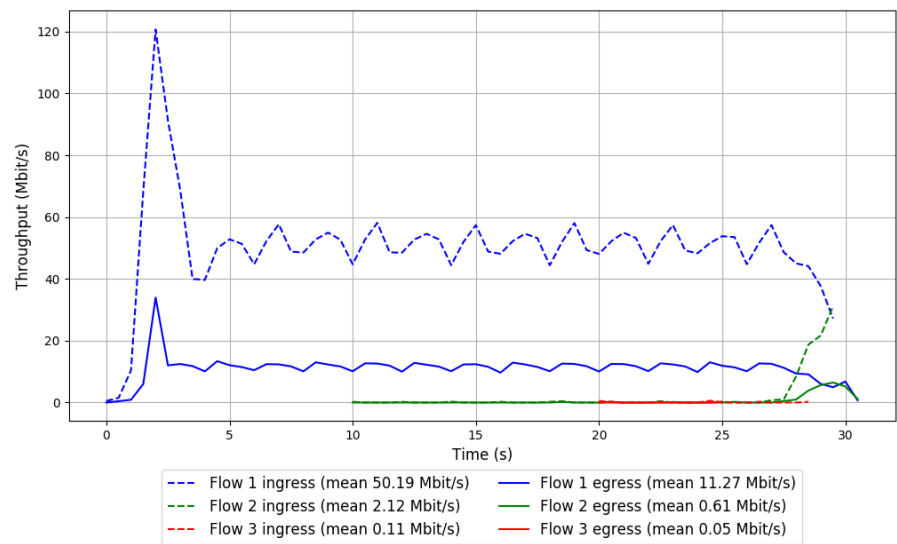
Run 5: Report of TCP BBR — Data Link

- - - Flow 1 ingress (mean 59.92 Mbit/s) —— Flow 1 egress (mean 52.22 Mbit/s)
- - - Flow 2 ingress (mean 48.33 Mbit/s) —— Flow 2 egress (mean 38.41 Mbit/s)
- - - Flow 3 ingress (mean 34.65 Mbit/s) —— Flow 3 egress (mean 24.84 Mbit/s)

• Flow 1 (95th percentile 110.70 ms)   • Flow 2 (95th percentile 113.36 ms)   • Flow 3 (95th percentile 110.78 ms)

```
Run 1: Statistics of Copa

Start at: 2019-01-17 12:13:09
End at: 2019-01-17 12:13:39
Local clock offset: -3.22 ms
Remote clock offset: 3.956 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 81.710 ms
Loss rate: 77.06%
-- Flow 1:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 81.918 ms
Loss rate: 74.98%
-- Flow 2:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 81.164 ms
Loss rate: 82.61%
-- Flow 3:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 81.950 ms
Loss rate: 53.39%
```
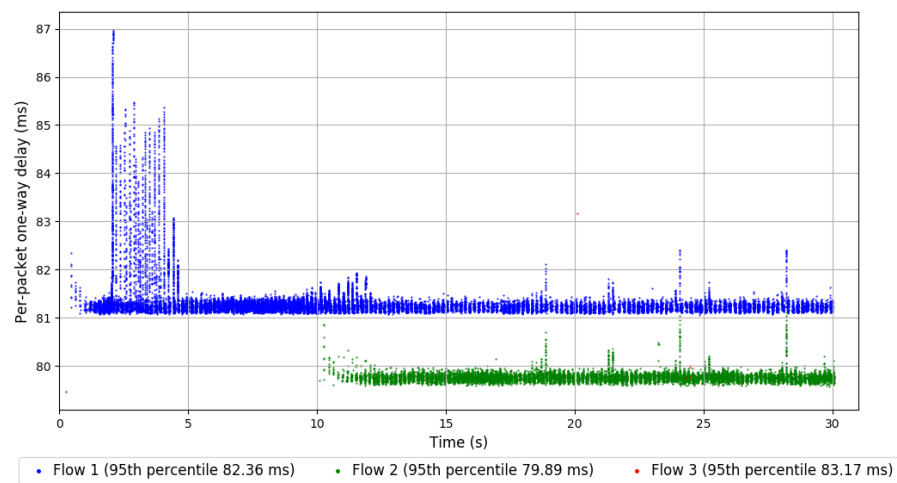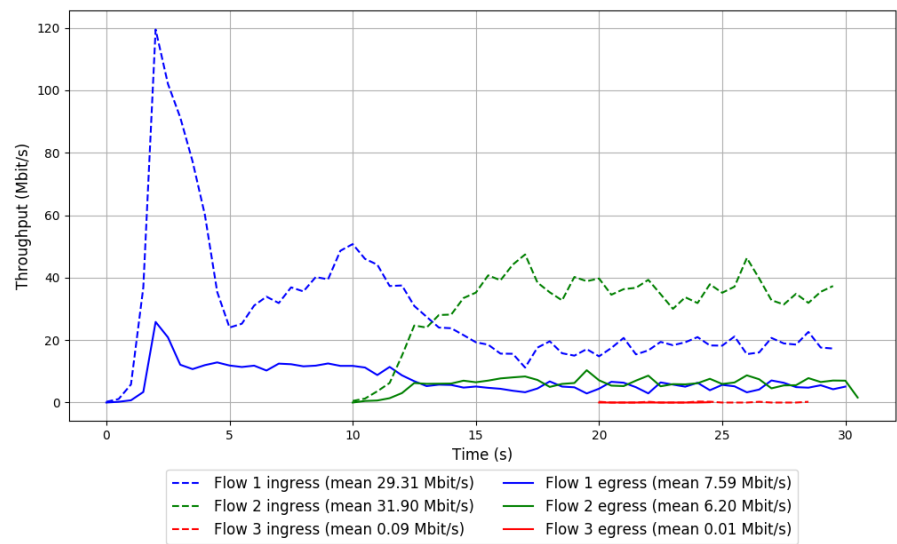
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2019-01-17 12:39:25
End at: 2019-01-17 12:39:55
Local clock offset: -4.711 ms
Remote clock offset: 7.514 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 85.736 ms
Loss rate: 77.38%
-- Flow 1:
Average throughput: 11.27 Mbit/s
95th percentile per-packet one-way delay: 85.751 ms
Loss rate: 77.56%
-- Flow 2:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 85.054 ms
Loss rate: 71.19%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.901 ms
Loss rate: 76.75%
```
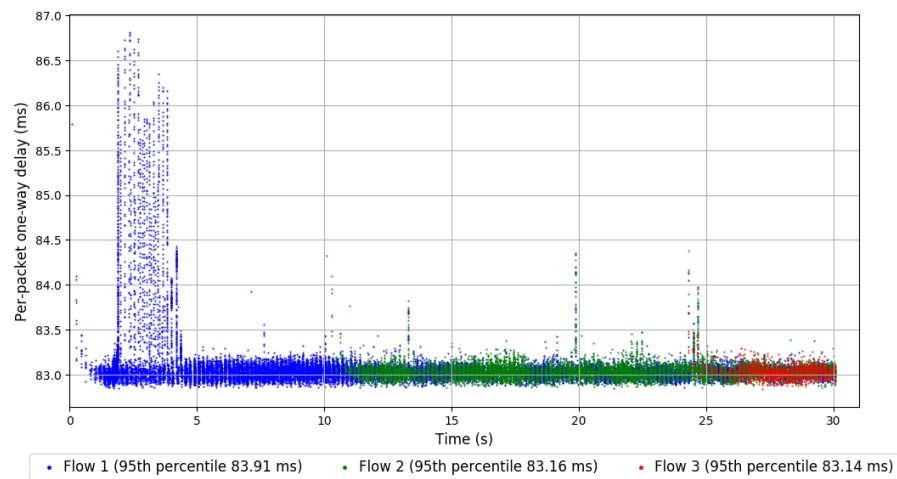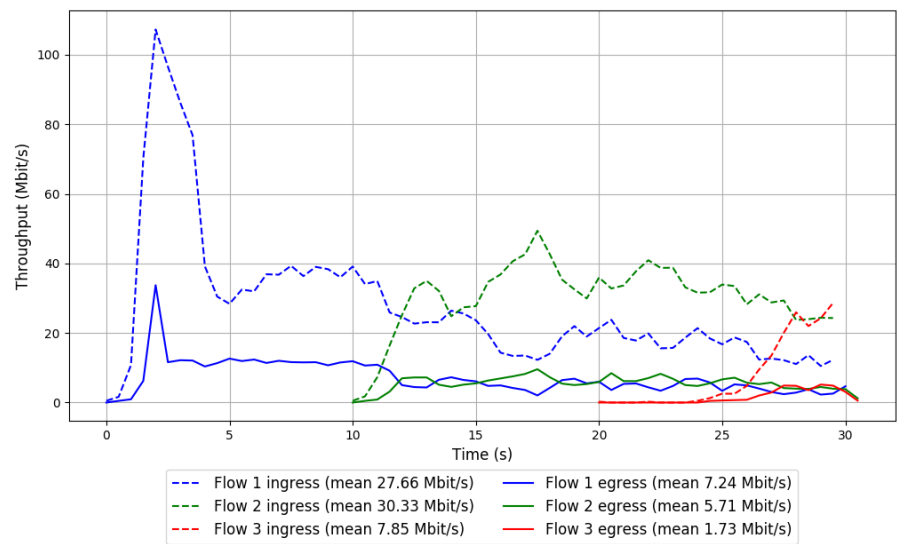
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2019-01-17 13:05:49
End at: 2019-01-17 13:06:19
Local clock offset: -5.194 ms
Remote clock offset: 2.157 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 81.751 ms
Loss rate: 76.92%
-- Flow 1:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 82.363 ms
Loss rate: 74.27%
-- Flow 2:
Average throughput: 6.20 Mbit/s
95th percentile per-packet one-way delay: 79.895 ms
Loss rate: 80.55%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 83.170 ms
Loss rate: 93.63%
```
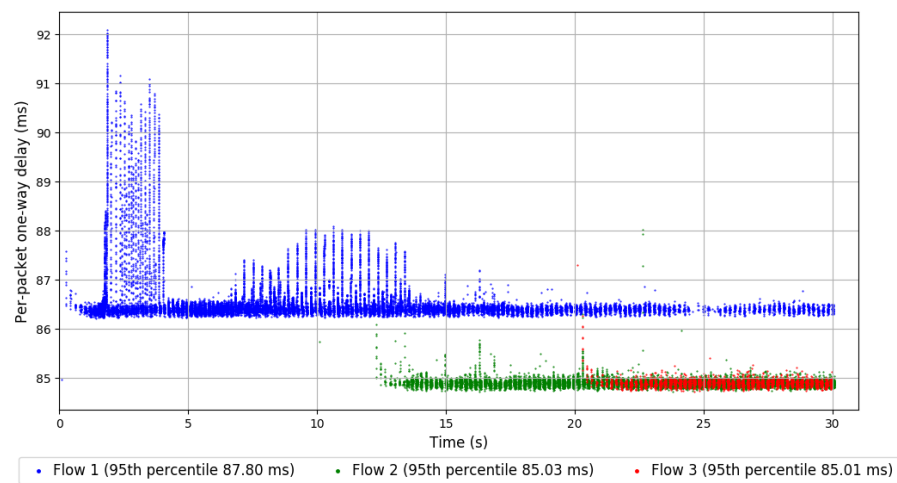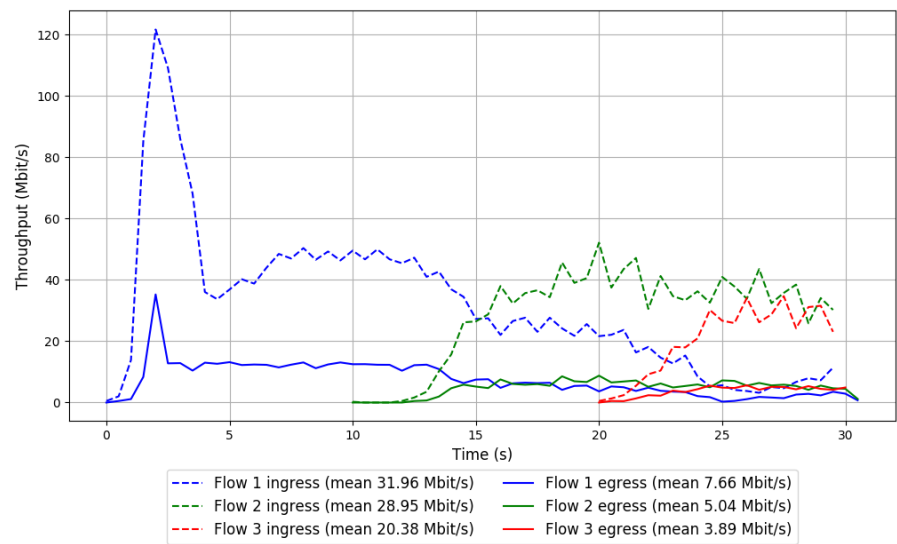
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 29.31 Mbit/s) Flow 1 egress (mean 7.59 Mbit/s)
Flow 2 ingress (mean 31.90 Mbit/s) Flow 2 egress (mean 6.20 Mbit/s)
Flow 3 ingress (mean 0.09 Mbit/s)   Flow 3 egress (mean 0.01 Mbit/s)

Flow 1 (95th percentile 82.36 ms)   Flow 2 (95th percentile 79.89 ms)   Flow 3 (95th percentile 83.17 ms)

```
Run 4: Statistics of Copa

Start at: 2019-01-17 13:32:08
End at: 2019-01-17 13:32:38
Local clock offset: -4.235 ms
Remote clock offset: 5.234 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 83.358 ms
Loss rate: 76.98%
-- Flow 1:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 83.908 ms
Loss rate: 73.82%
-- Flow 2:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 83.161 ms
Loss rate: 81.18%
-- Flow 3:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 83.145 ms
Loss rate: 77.94%
```
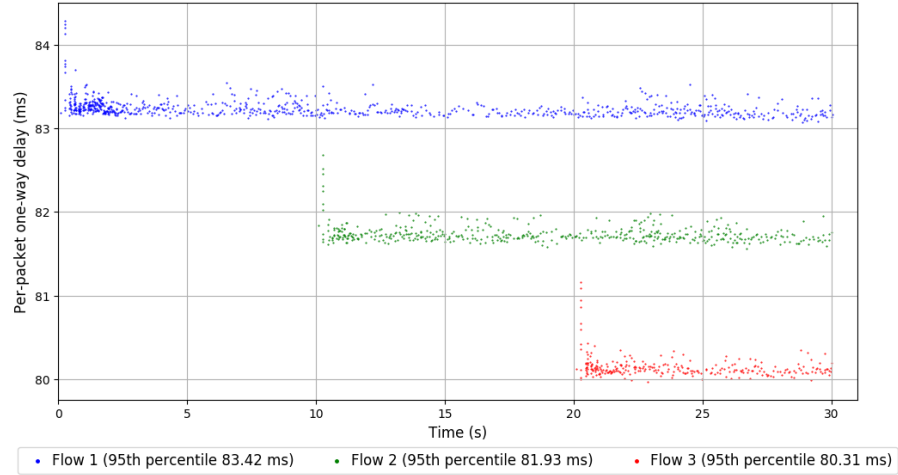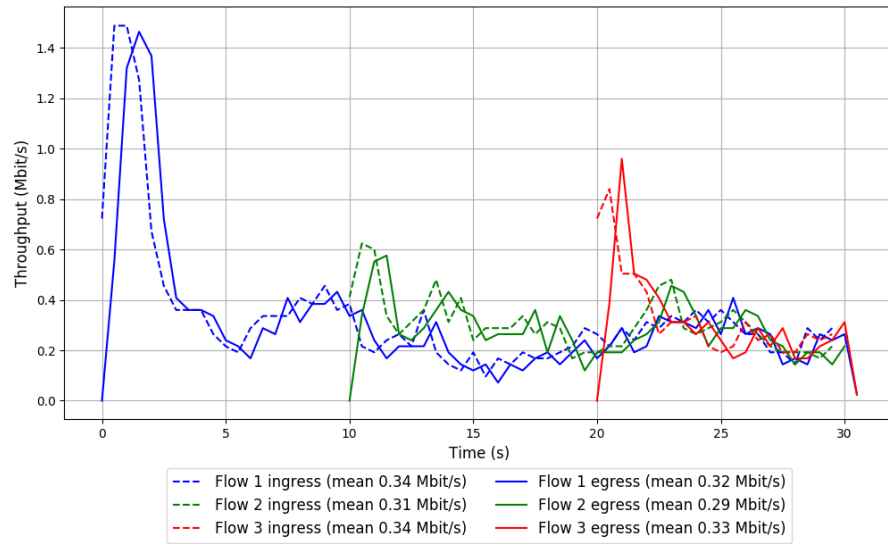
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2019-01-17 13:58:35
End at: 2019-01-17 13:59:05
Local clock offset: -4.402 ms
Remote clock offset: 6.026 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 87.327 ms
Loss rate: 78.77%
-- Flow 1:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 87.796 ms
Loss rate: 76.02%
-- Flow 2:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 85.033 ms
Loss rate: 82.59%
-- Flow 3:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 85.008 ms
Loss rate: 80.92%
```
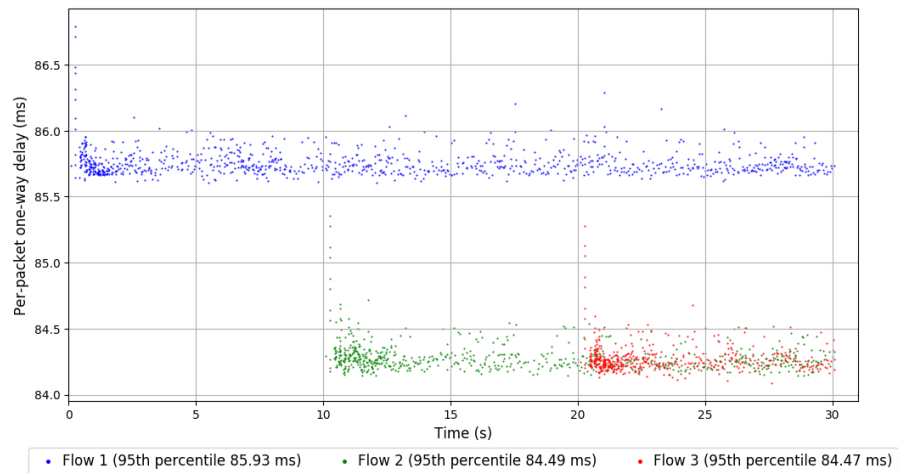
Run 5: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2019-01-17 12:20:38
End at: 2019-01-17 12:21:08
Local clock offset: -2.931 ms
Remote clock offset: 3.878 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 83.358 ms
Loss rate: 5.48%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 83.415 ms
Loss rate: 5.06%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 81.932 ms
Loss rate: 6.27%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 80.315 ms
Loss rate: 5.28%
```
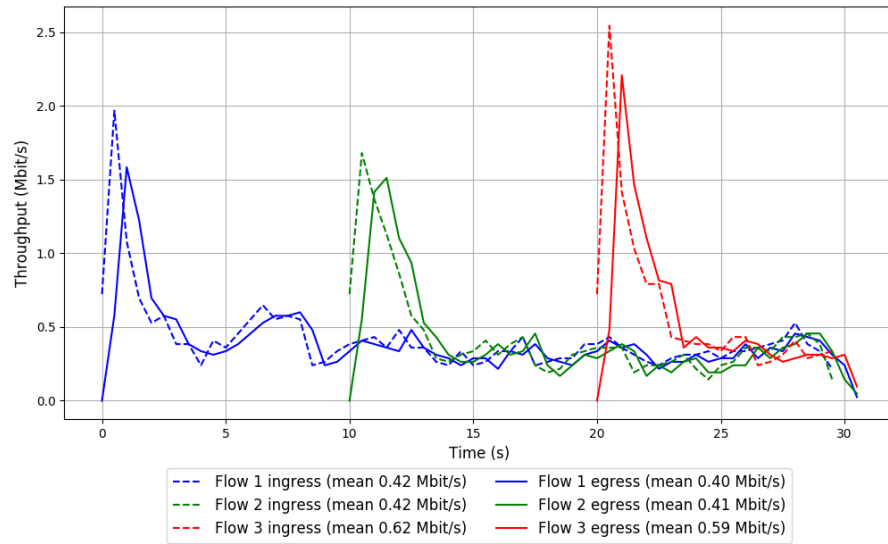
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-01-17 12:46:58
End at: 2019-01-17 12:47:28
Local clock offset: -4.091 ms
Remote clock offset: 7.475 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 85.873 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 85.929 ms
Loss rate: 3.93%
-- Flow 2:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 84.486 ms
Loss rate: 3.97%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 84.472 ms
Loss rate: 4.70%
```
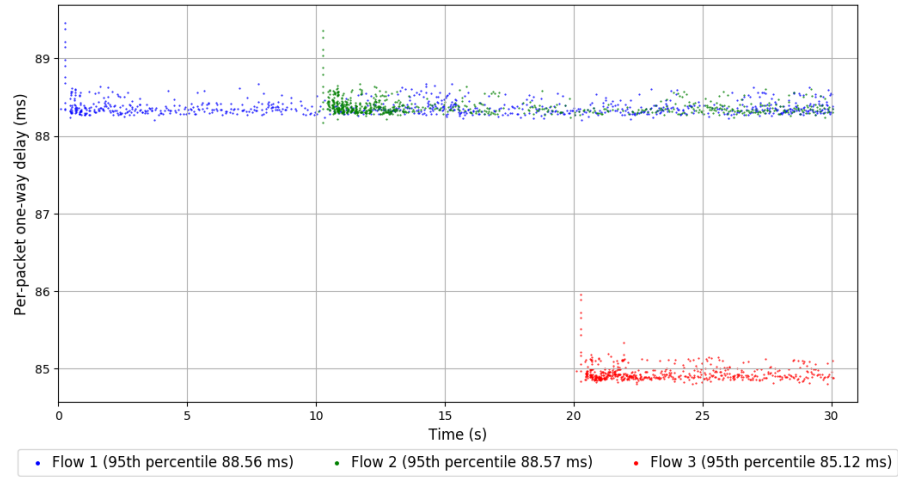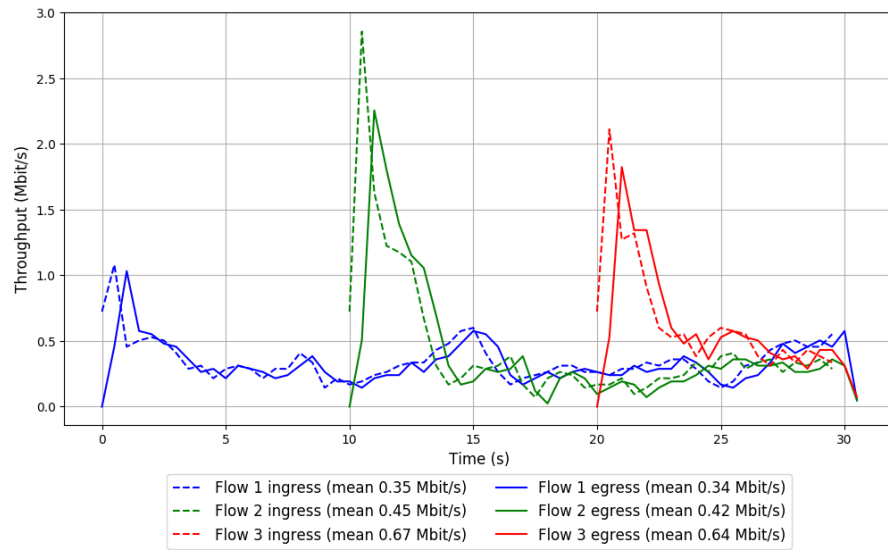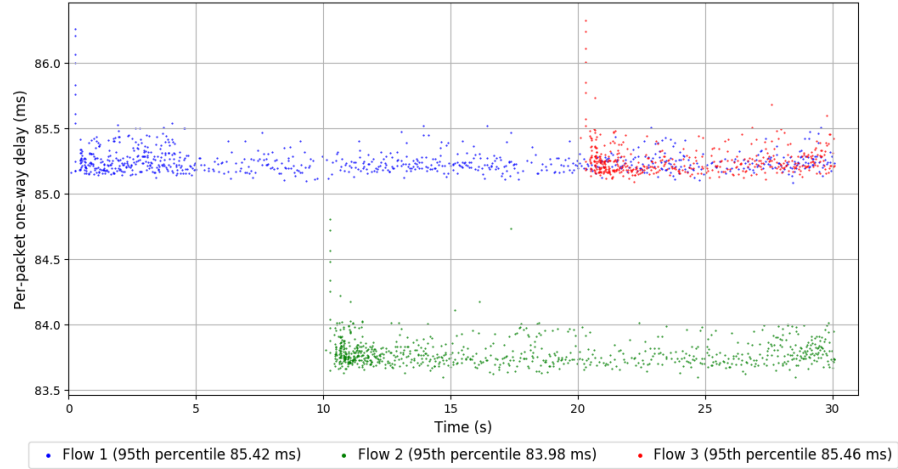
Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 0.42 Mbit/s) — — — Flow 1 egress (mean 0.40 Mbit/s)
Flow 2 ingress (mean 0.42 Mbit/s) — — — Flow 2 egress (mean 0.41 Mbit/s)
Flow 3 ingress (mean 0.62 Mbit/s) — — — Flow 3 egress (mean 0.59 Mbit/s)

Flow 1 (95th percentile 85.93 ms)   Flow 2 (95th percentile 84.49 ms)   Flow 3 (95th percentile 84.47 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2019-01-17 13:13:17
End at: 2019-01-17 13:13:47
Local clock offset: -5.347 ms
Remote clock offset: 7.275 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 88.548 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 88.562 ms
Loss rate: 3.89%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 88.568 ms
Loss rate: 5.77%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 85.116 ms
Loss rate: 3.62%
```
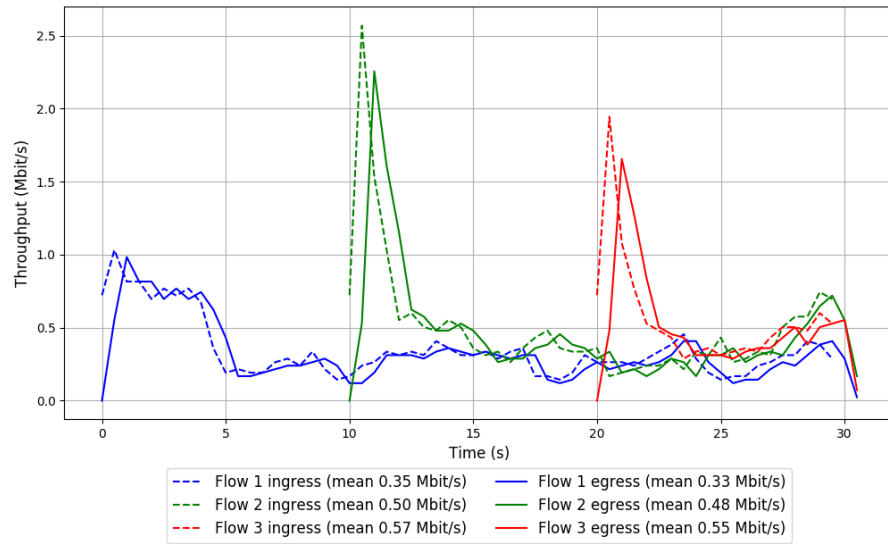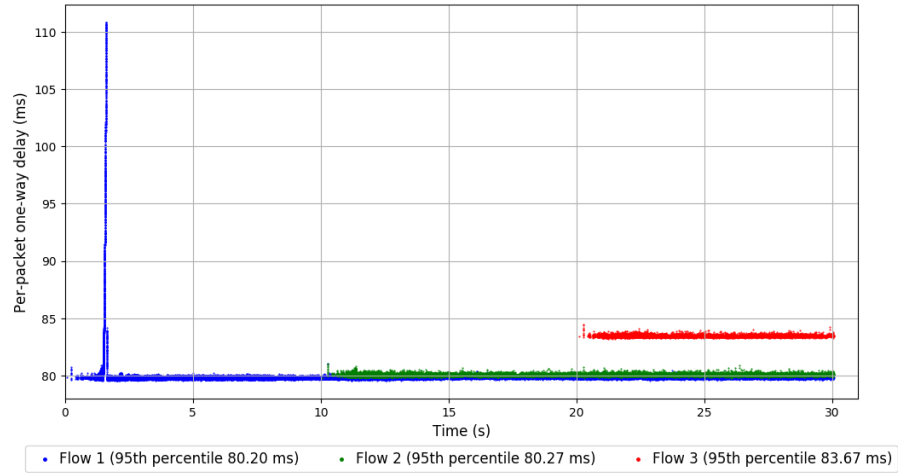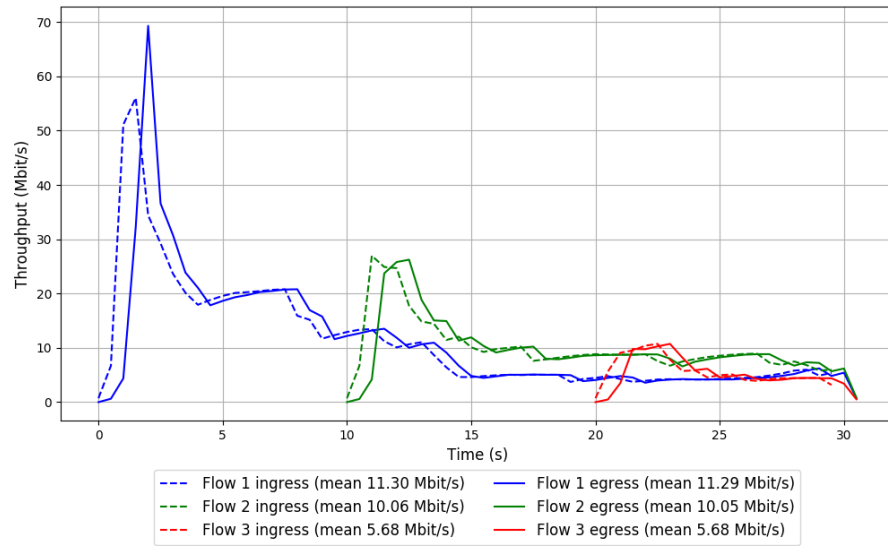
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 0.35 Mbit/s)   Flow 1 egress (mean 0.34 Mbit/s)
Flow 2 ingress (mean 0.45 Mbit/s)   Flow 2 egress (mean 0.42 Mbit/s)
Flow 3 ingress (mean 0.67 Mbit/s)   Flow 3 egress (mean 0.64 Mbit/s)

• Flow 1 (95th percentile 88.56 ms)   • Flow 2 (95th percentile 88.57 ms)   • Flow 3 (95th percentile 85.12 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2019-01-17 13:39:38
End at: 2019-01-17 13:40:08
Local clock offset: -4.974 ms
Remote clock offset: 5.024 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 85.403 ms
Loss rate: 4.04%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 85.424 ms
Loss rate: 4.92%
-- Flow 2:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 83.983 ms
Loss rate: 3.25%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 85.457 ms
Loss rate: 3.81%
```
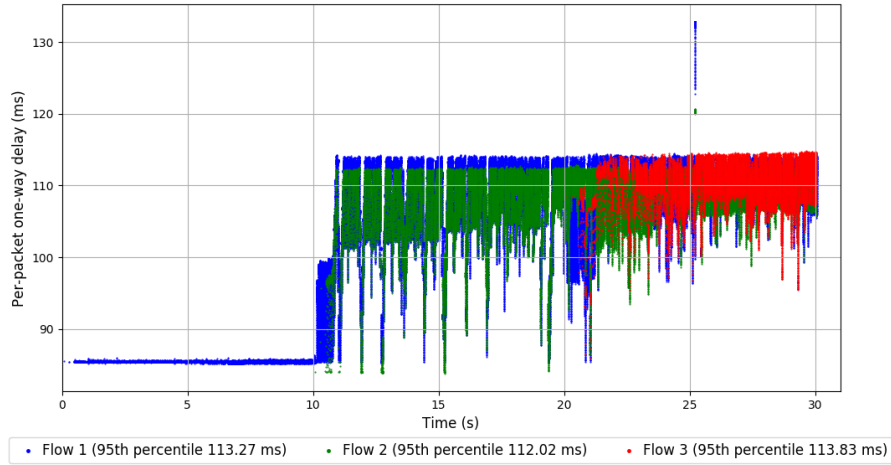
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2019-01-17 14:06:10
End at: 2019-01-17 14:06:40
Local clock offset: -4.32 ms
Remote clock offset: 0.984 ms


# Below is generated by plot.py at 2019-01-17 14:21:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.87 Mbit/s
95th percentile per-packet one-way delay: 83.504 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 80.197 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 80.266 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 83.673 ms
Loss rate: 0.13%
```
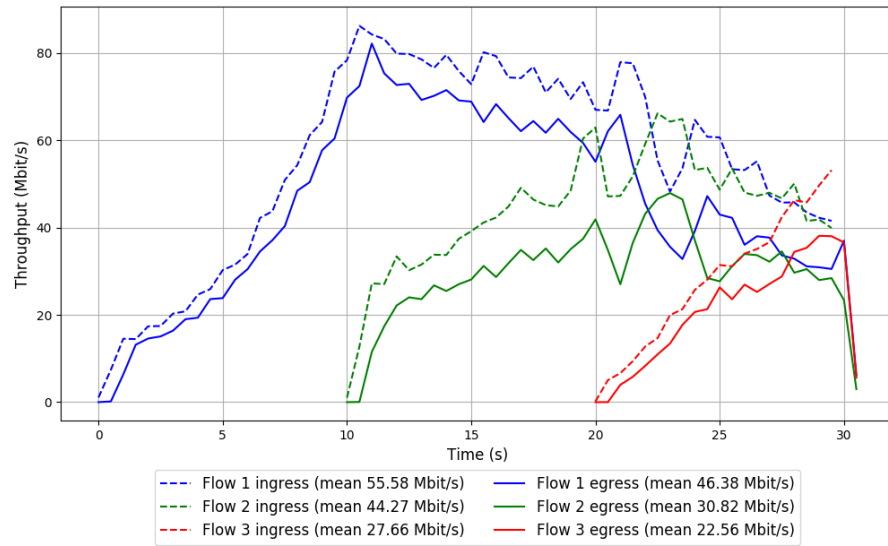
Run 5: Report of TCP Cubic — Data Link

```
Run 1: Statistics of FillP

Start at: 2019-01-17 12:33:14
End at: 2019-01-17 12:33:44
Local clock offset: -3.841 ms
Remote clock offset: 7.4 ms


# Below is generated by plot.py at 2019-01-17 14:22:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.38 Mbit/s
95th percentile per-packet one-way delay: 113.201 ms
Loss rate: 20.99%
-- Flow 1:
Average throughput: 46.38 Mbit/s
95th percentile per-packet one-way delay: 113.272 ms
Loss rate: 16.48%
-- Flow 2:
Average throughput: 30.82 Mbit/s
95th percentile per-packet one-way delay: 112.015 ms
Loss rate: 30.30%
-- Flow 3:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 113.830 ms
Loss rate: 18.41%
```
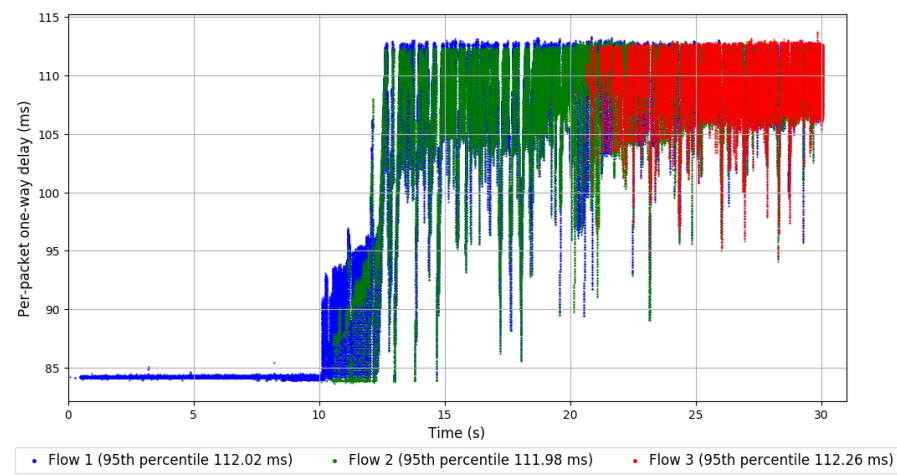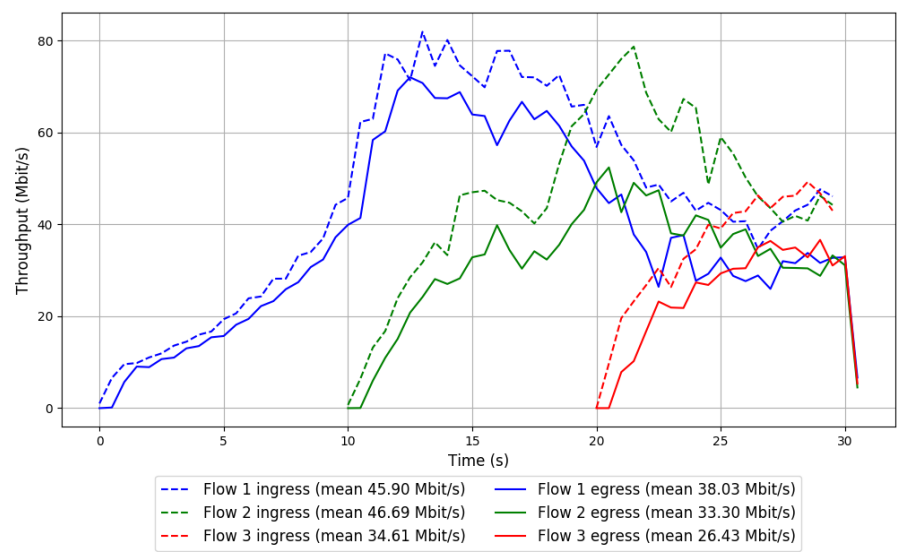
Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2019-01-17 12:59:37
End at: 2019-01-17 13:00:07
Local clock offset: -4.355 ms
Remote clock offset: 5.922 ms

# Below is generated by plot.py at 2019-01-17 14:22:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.96 Mbit/s
95th percentile per-packet one-way delay: 112.044 ms
Loss rate: 21.98%
-- Flow 1:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 112.023 ms
Loss rate: 17.07%
-- Flow 2:
Average throughput: 33.30 Mbit/s
95th percentile per-packet one-way delay: 111.980 ms
Loss rate: 28.61%
-- Flow 3:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 112.261 ms
Loss rate: 23.66%
```
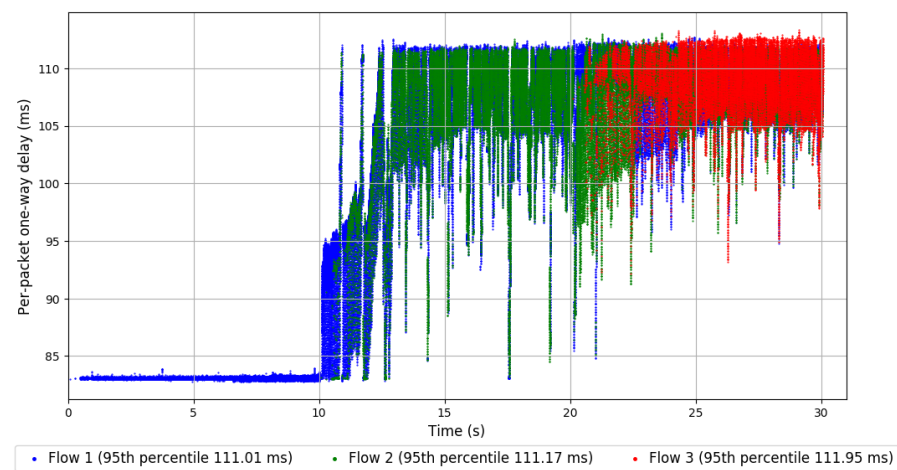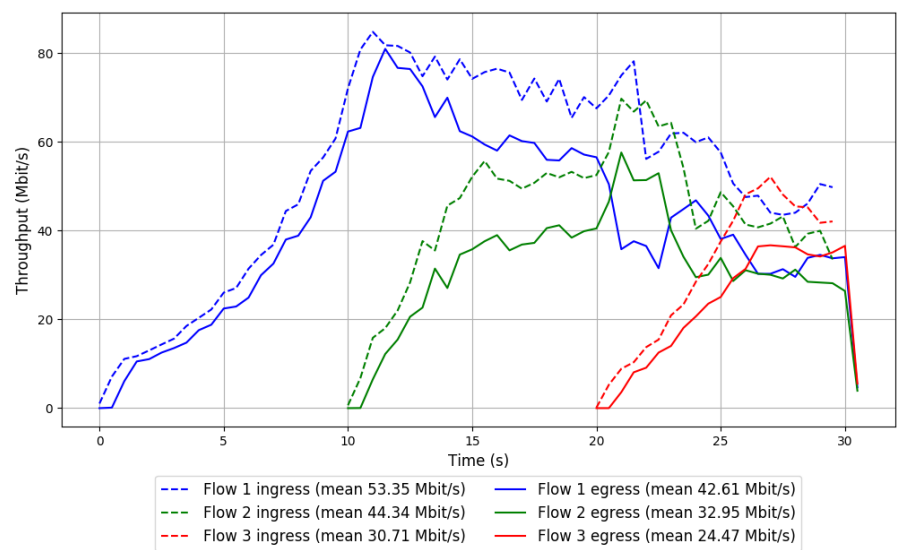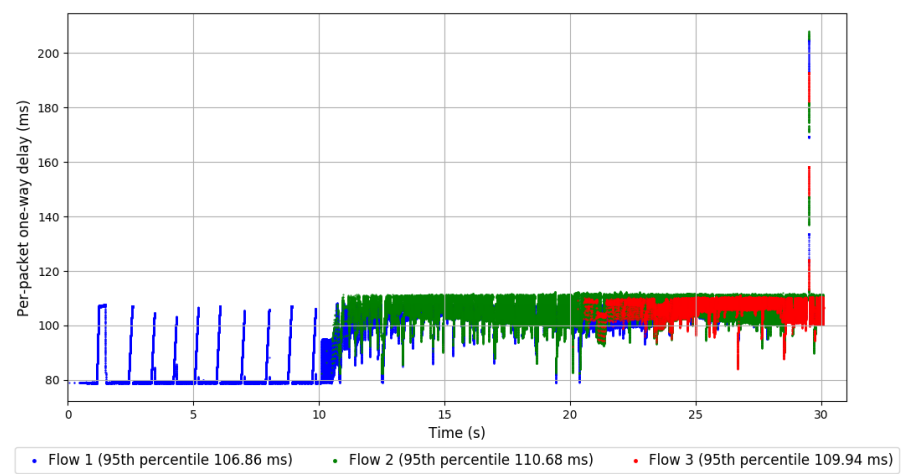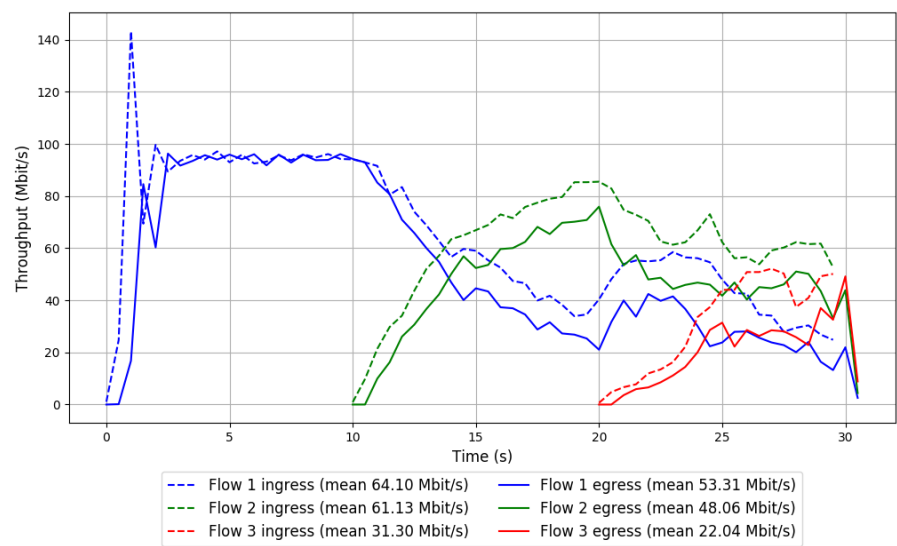
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-01-17 13:25:57
End at: 2019-01-17 13:26:27
Local clock offset: -5.124 ms
Remote clock offset: 2.793 ms

# Below is generated by plot.py at 2019-01-17 14:22:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.63 Mbit/s
95th percentile per-packet one-way delay: 111.221 ms
Loss rate: 21.85%
-- Flow 1:
Average throughput: 42.61 Mbit/s
95th percentile per-packet one-way delay: 111.014 ms
Loss rate: 20.07%
-- Flow 2:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 111.171 ms
Loss rate: 25.62%
-- Flow 3:
Average throughput: 24.47 Mbit/s
95th percentile per-packet one-way delay: 111.950 ms
Loss rate: 20.30%
```

Run 3: Report of FillP — Data Link

```
Run 4: Statistics of FillP

Start at: 2019-01-17 13:52:19
End at: 2019-01-17 13:52:49
Local clock offset: -3.887 ms
Remote clock offset: 1.048 ms


# Below is generated by plot.py at 2019-01-17 14:23:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.61 Mbit/s
95th percentile per-packet one-way delay: 110.248 ms
Loss rate: 19.52%
-- Flow 1:
Average throughput: 53.31 Mbit/s
95th percentile per-packet one-way delay: 106.863 ms
Loss rate: 16.78%
-- Flow 2:
Average throughput: 48.06 Mbit/s
95th percentile per-packet one-way delay: 110.677 ms
Loss rate: 21.28%
-- Flow 3:
Average throughput: 22.04 Mbit/s
95th percentile per-packet one-way delay: 109.938 ms
Loss rate: 29.50%
```
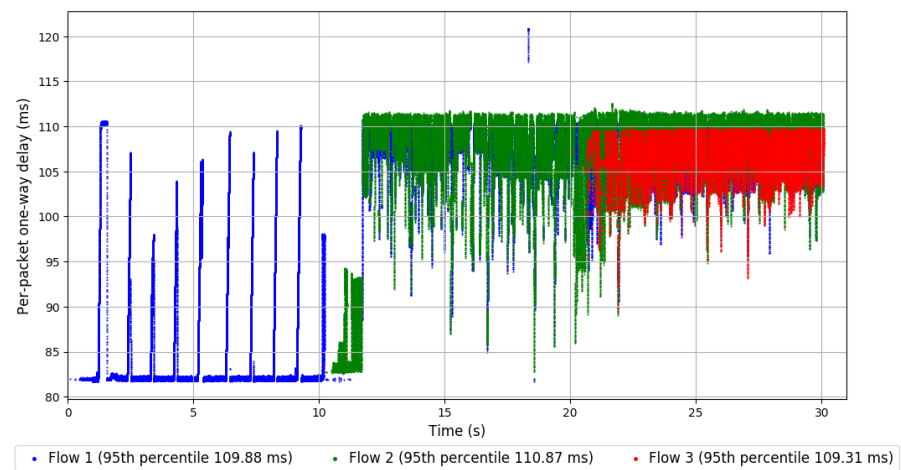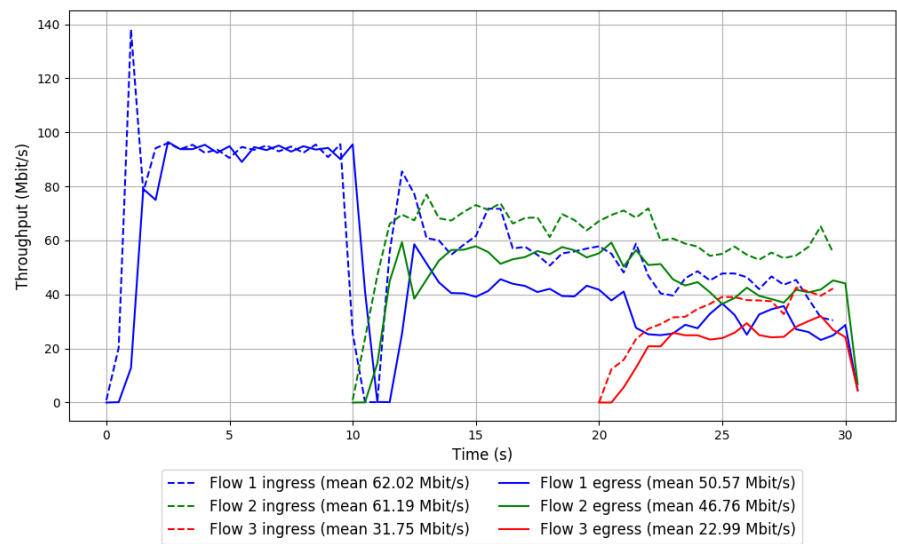
Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2019-01-17 14:19:06
End at: 2019-01-17 14:19:36
Local clock offset: -3.466 ms
Remote clock offset: 1.954 ms


# Below is generated by plot.py at 2019-01-17 14:23:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 110.392 ms
Loss rate: 21.09%
-- Flow 1:
Average throughput: 50.57 Mbit/s
95th percentile per-packet one-way delay: 109.876 ms
Loss rate: 18.41%
-- Flow 2:
Average throughput: 46.76 Mbit/s
95th percentile per-packet one-way delay: 110.867 ms
Loss rate: 23.48%
-- Flow 3:
Average throughput: 22.99 Mbit/s
95th percentile per-packet one-way delay: 109.307 ms
Loss rate: 27.60%
```
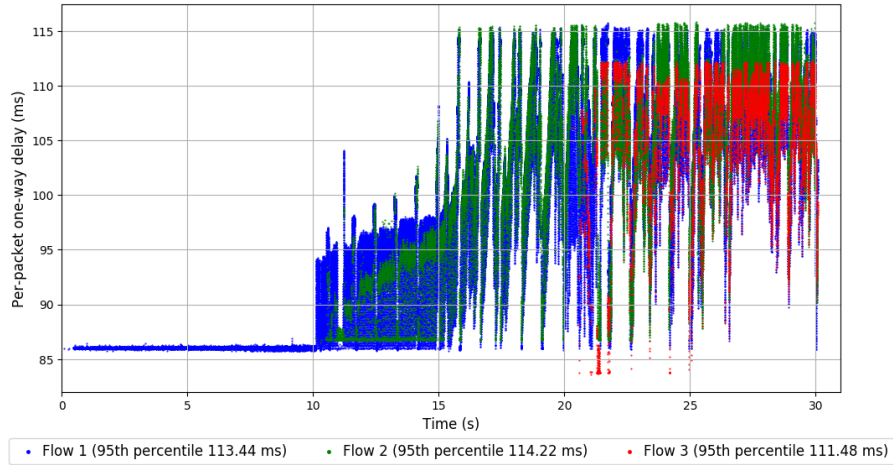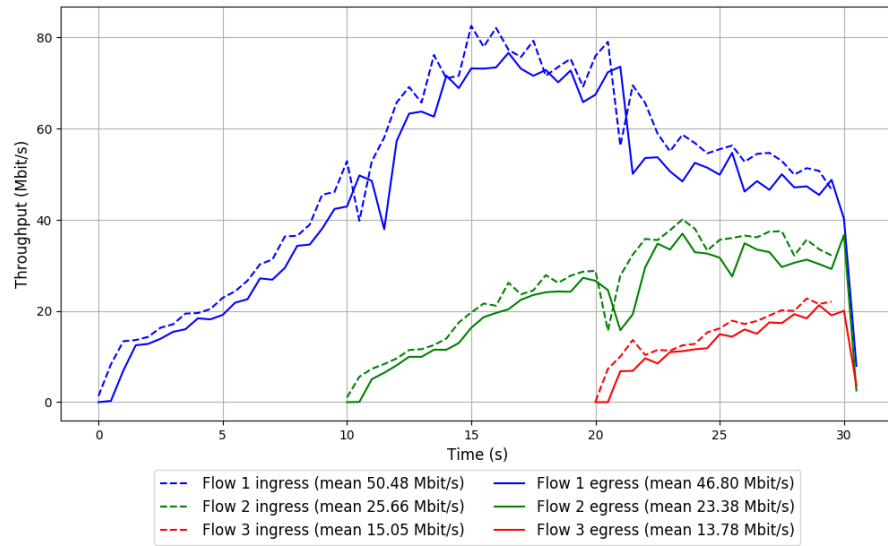
Run 5: Report of FillP — Data Link

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-01-17 12:29:22
End at: 2019-01-17 12:29:52
Local clock offset: -3.669 ms
Remote clock offset: 7.43 ms


# Below is generated by plot.py at 2019-01-17 14:23:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.94 Mbit/s
95th percentile per-packet one-way delay: 113.573 ms
Loss rate: 7.70%
-- Flow 1:
Average throughput: 46.80 Mbit/s
95th percentile per-packet one-way delay: 113.441 ms
Loss rate: 7.24%
-- Flow 2:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 114.225 ms
Loss rate: 8.83%
-- Flow 3:
Average throughput: 13.78 Mbit/s
95th percentile per-packet one-way delay: 111.484 ms
Loss rate: 8.40%
```
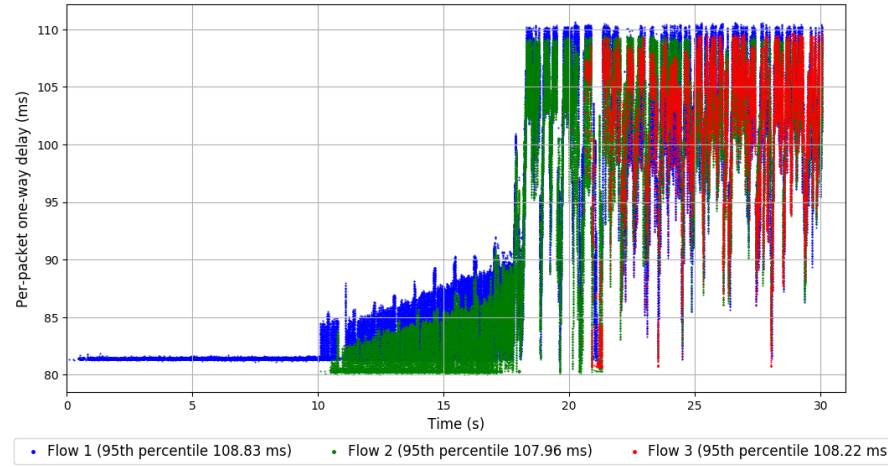
Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-01-17 12:55:43
End at: 2019-01-17 12:56:13
Local clock offset: -4.293 ms
Remote clock offset: 2.044 ms


# Below is generated by plot.py at 2019-01-17 14:23:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 108.409 ms
Loss rate: 10.40%
-- Flow 1:
Average throughput: 29.75 Mbit/s
95th percentile per-packet one-way delay: 108.826 ms
Loss rate: 9.63%
-- Flow 2:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 107.956 ms
Loss rate: 12.42%
-- Flow 3:
Average throughput: 19.15 Mbit/s
95th percentile per-packet one-way delay: 108.219 ms
Loss rate: 7.03%
```
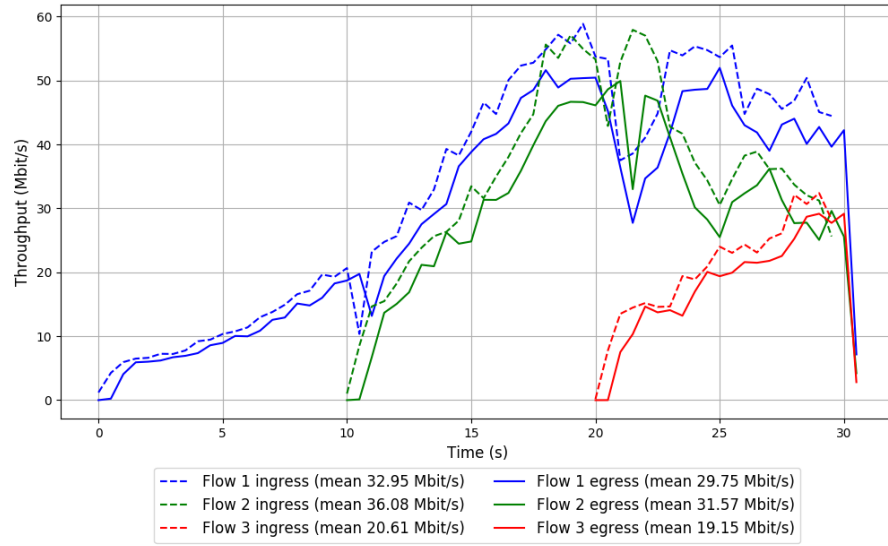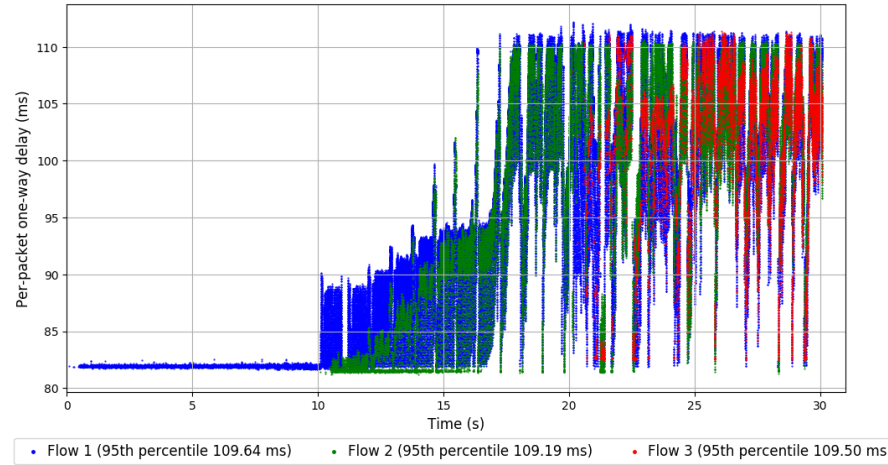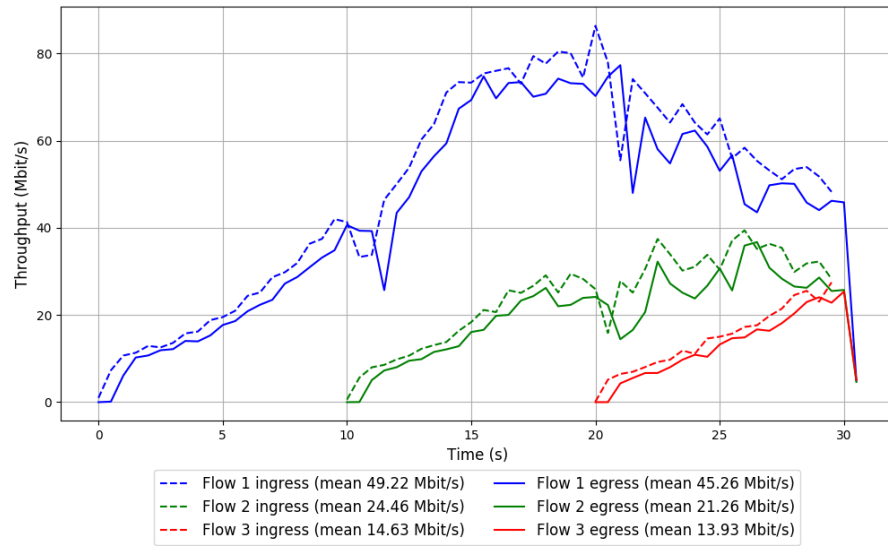
Run 2: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 32.95 Mbit/s) --- Flow 1 egress (mean 29.75 Mbit/s)
Flow 2 ingress (mean 36.08 Mbit/s) --- Flow 2 egress (mean 31.57 Mbit/s)
Flow 3 ingress (mean 20.61 Mbit/s) --- Flow 3 egress (mean 19.15 Mbit/s)

Flow 1 (95th percentile 108.83 ms) Flow 2 (95th percentile 107.96 ms) Flow 3 (95th percentile 108.22 ms)

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-01-17 13:22:01
End at: 2019-01-17 13:22:31
Local clock offset: -5.15 ms
Remote clock offset: 1.935 ms


# Below is generated by plot.py at 2019-01-17 14:23:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.01 Mbit/s
95th percentile per-packet one-way delay: 109.532 ms
Loss rate: 8.92%
-- Flow 1:
Average throughput: 45.26 Mbit/s
95th percentile per-packet one-way delay: 109.643 ms
Loss rate: 7.98%
-- Flow 2:
Average throughput: 21.26 Mbit/s
95th percentile per-packet one-way delay: 109.195 ms
Loss rate: 12.99%
-- Flow 3:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 109.499 ms
Loss rate: 4.78%
```
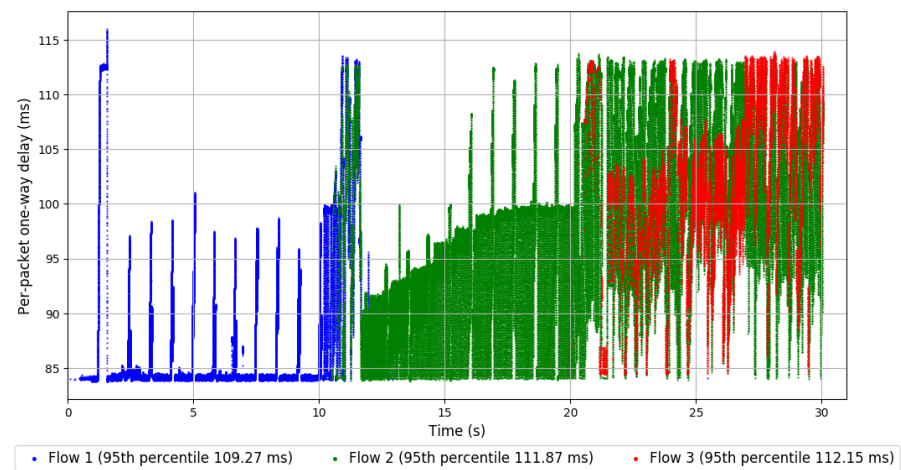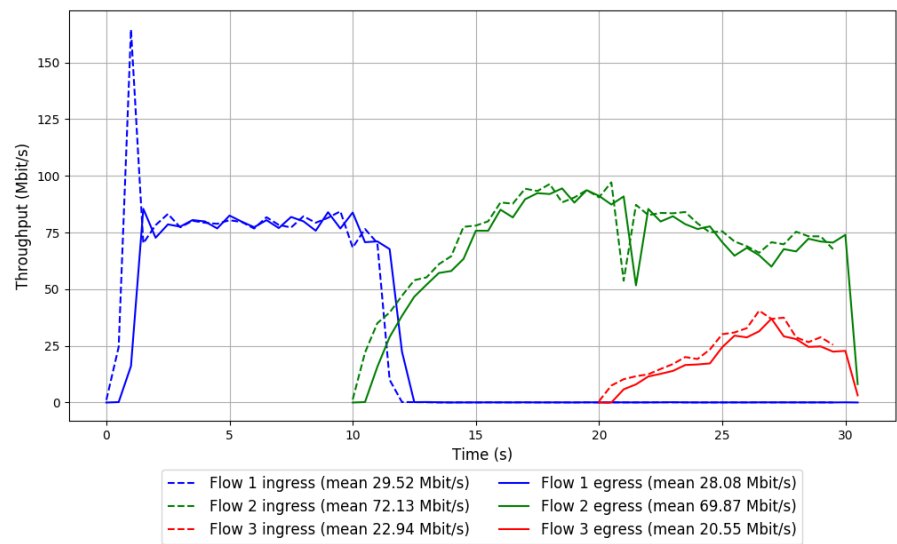
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 49.22 Mbit/s) --- Flow 1 egress (mean 45.26 Mbit/s)
Flow 2 ingress (mean 24.46 Mbit/s) --- Flow 2 egress (mean 21.26 Mbit/s)
Flow 3 ingress (mean 14.63 Mbit/s) --- Flow 3 egress (mean 13.93 Mbit/s)

Flow 1 (95th percentile 109.64 ms)   Flow 2 (95th percentile 109.19 ms)   Flow 3 (95th percentile 109.50 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-01-17 13:48:25
End at: 2019-01-17 13:48:55
Local clock offset: -4.148 ms
Remote clock offset: 6.039 ms


# Below is generated by plot.py at 2019-01-17 14:23:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.38 Mbit/s
95th percentile per-packet one-way delay: 111.790 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 28.08 Mbit/s
95th percentile per-packet one-way delay: 109.271 ms
Loss rate: 4.83%
-- Flow 2:
Average throughput: 69.87 Mbit/s
95th percentile per-packet one-way delay: 111.868 ms
Loss rate: 3.02%
-- Flow 3:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 112.148 ms
Loss rate: 10.26%
```
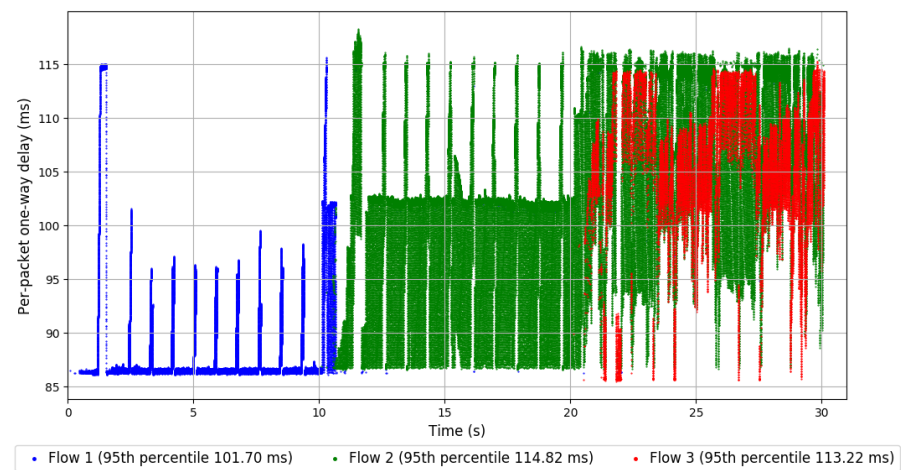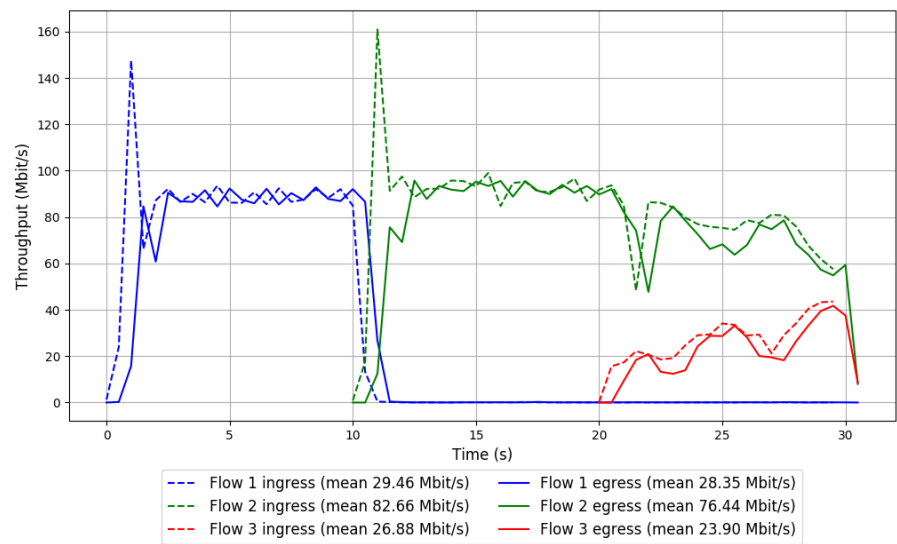
Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-01-17 14:15:08
End at: 2019-01-17 14:15:38
Local clock offset: -3.365 ms
Remote clock offset: 7.109 ms


# Below is generated by plot.py at 2019-01-17 14:23:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.13 Mbit/s
95th percentile per-packet one-way delay: 114.559 ms
Loss rate: 6.57%
-- Flow 1:
Average throughput: 28.35 Mbit/s
95th percentile per-packet one-way delay: 101.699 ms
Loss rate: 3.70%
-- Flow 2:
Average throughput: 76.44 Mbit/s
95th percentile per-packet one-way delay: 114.820 ms
Loss rate: 7.40%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 113.218 ms
Loss rate: 10.89%
```
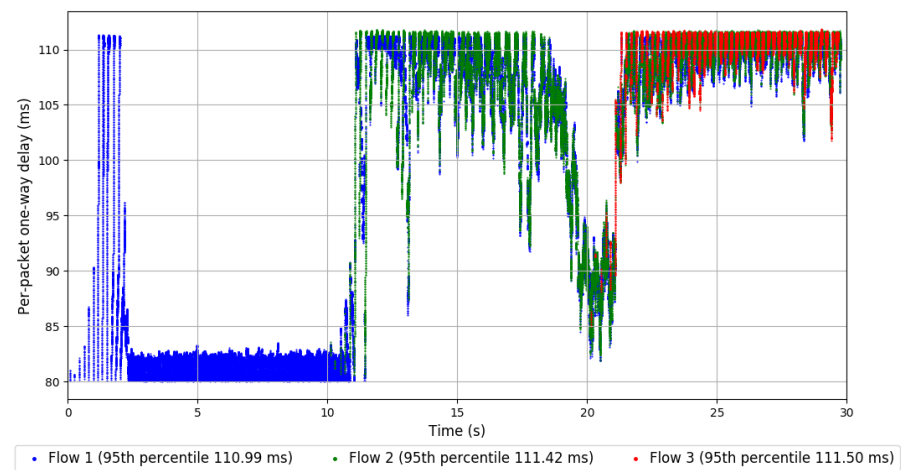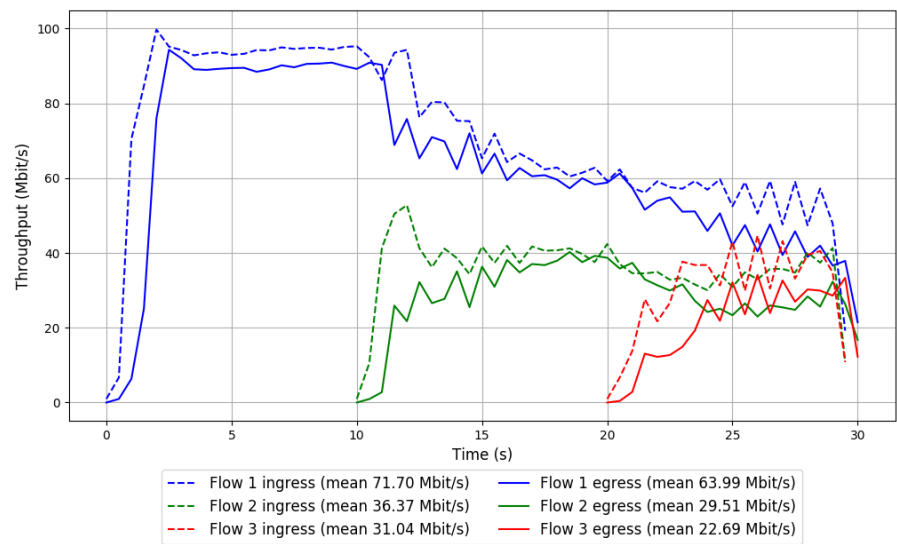
Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 29.46 Mbit/s) Flow 1 egress (mean 28.35 Mbit/s)
Flow 2 ingress (mean 82.66 Mbit/s) Flow 2 egress (mean 76.44 Mbit/s)
Flow 3 ingress (mean 26.88 Mbit/s) Flow 3 egress (mean 23.90 Mbit/s)

Flow 1 (95th percentile 101.70 ms) Flow 2 (95th percentile 114.82 ms) Flow 3 (95th percentile 113.22 ms)

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```
Run 1: Statistics of Indigo

Start at: 2019-01-17 12:25:38
End at: 2019-01-17 12:26:08
Local clock offset: -3.376 ms
Remote clock offset: 2.482 ms


# Below is generated by plot.py at 2019-01-17 14:23:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.82 Mbit/s
95th percentile per-packet one-way delay: 111.290 ms
Loss rate: 14.01%
-- Flow 1:
Average throughput: 63.99 Mbit/s
95th percentile per-packet one-way delay: 110.988 ms
Loss rate: 10.66%
-- Flow 2:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 111.418 ms
Loss rate: 18.75%
-- Flow 3:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 111.504 ms
Loss rate: 26.69%
```
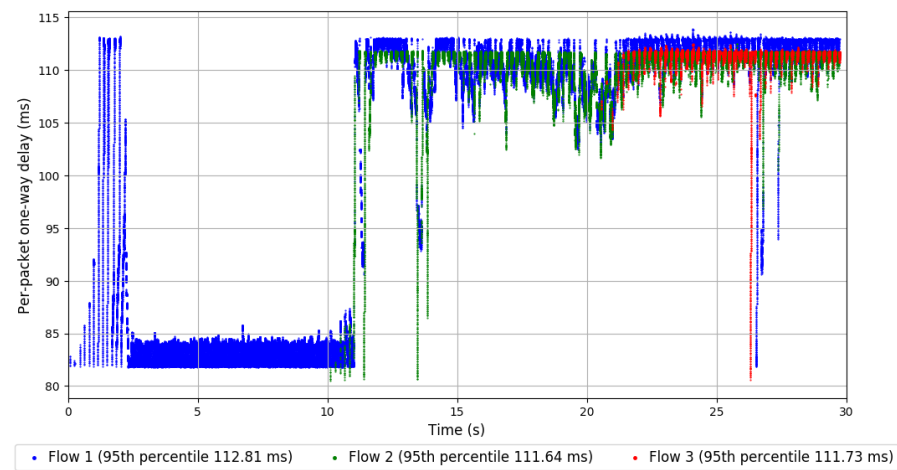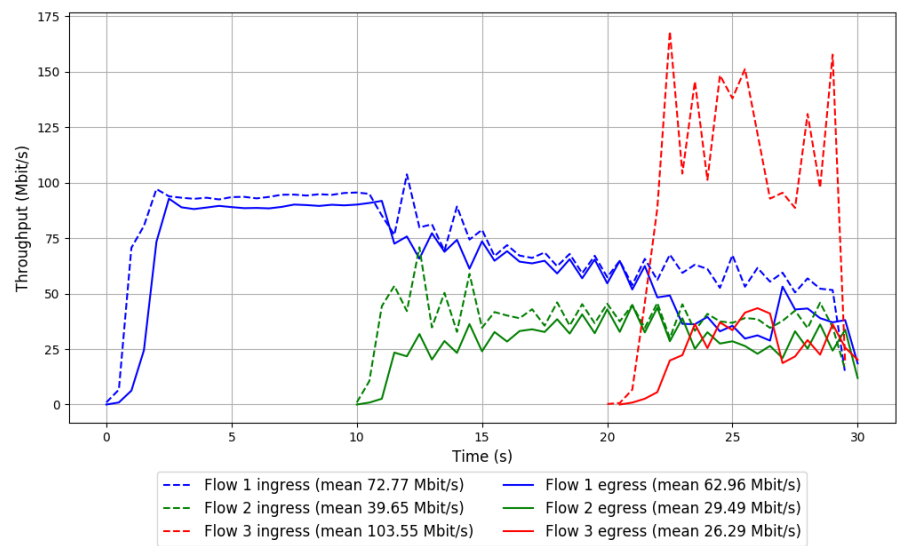
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-01-17 12:51:58
End at: 2019-01-17 12:52:28
Local clock offset: -4.214 ms
Remote clock offset: 2.378 ms


# Below is generated by plot.py at 2019-01-17 14:23:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.54 Mbit/s
95th percentile per-packet one-way delay: 112.692 ms
Loss rate: 30.80%
-- Flow 1:
Average throughput: 62.96 Mbit/s
95th percentile per-packet one-way delay: 112.810 ms
Loss rate: 13.39%
-- Flow 2:
Average throughput: 29.49 Mbit/s
95th percentile per-packet one-way delay: 111.635 ms
Loss rate: 25.50%
-- Flow 3:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 111.732 ms
Loss rate: 74.60%
```
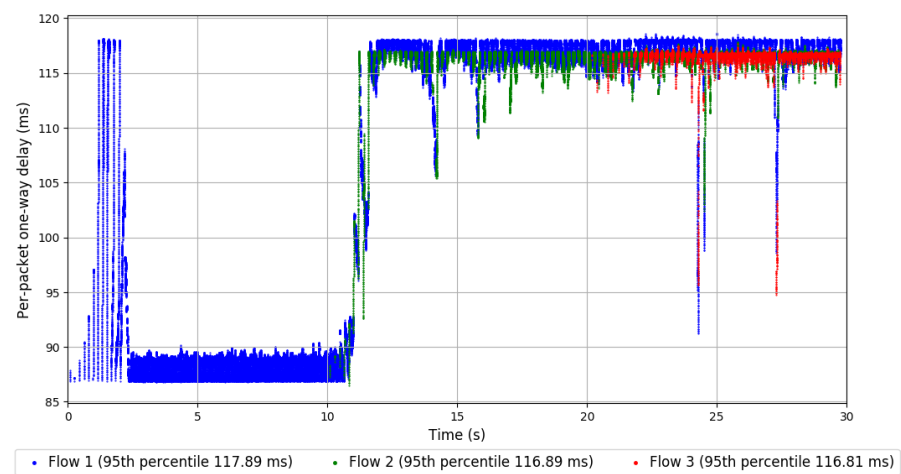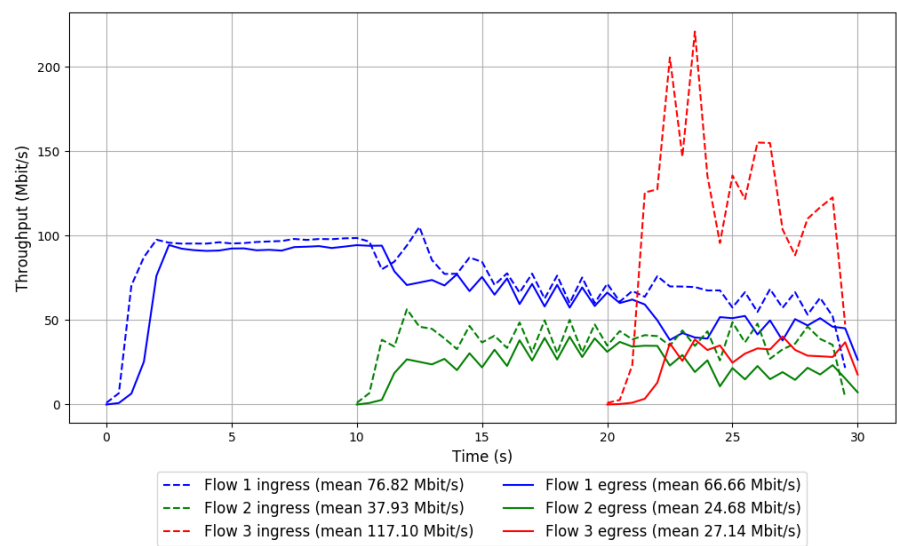
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-01-17 13:18:16
End at: 2019-01-17 13:18:46
Local clock offset: -5.357 ms
Remote clock offset: 8.017 ms


# Below is generated by plot.py at 2019-01-17 14:24:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 117.806 ms
Loss rate: 34.26%
-- Flow 1:
Average throughput: 66.66 Mbit/s
95th percentile per-packet one-way delay: 117.888 ms
Loss rate: 13.14%
-- Flow 2:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 116.891 ms
Loss rate: 34.84%
-- Flow 3:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 116.814 ms
Loss rate: 76.82%
```
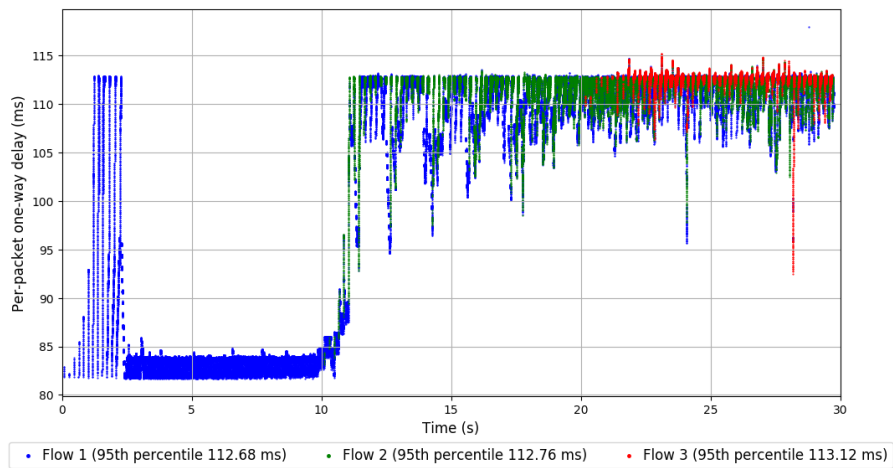
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-01-17 13:44:38
End at: 2019-01-17 13:45:08
Local clock offset: -4.225 ms
Remote clock offset: 2.315 ms


# Below is generated by plot.py at 2019-01-17 14:24:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 112.785 ms
Loss rate: 33.67%
-- Flow 1:
Average throughput: 69.05 Mbit/s
95th percentile per-packet one-way delay: 112.684 ms
Loss rate: 9.54%
-- Flow 2:
Average throughput: 22.66 Mbit/s
95th percentile per-packet one-way delay: 112.763 ms
Loss rate: 41.11%
-- Flow 3:
Average throughput: 25.53 Mbit/s
95th percentile per-packet one-way delay: 113.118 ms
Loss rate: 78.03%
```
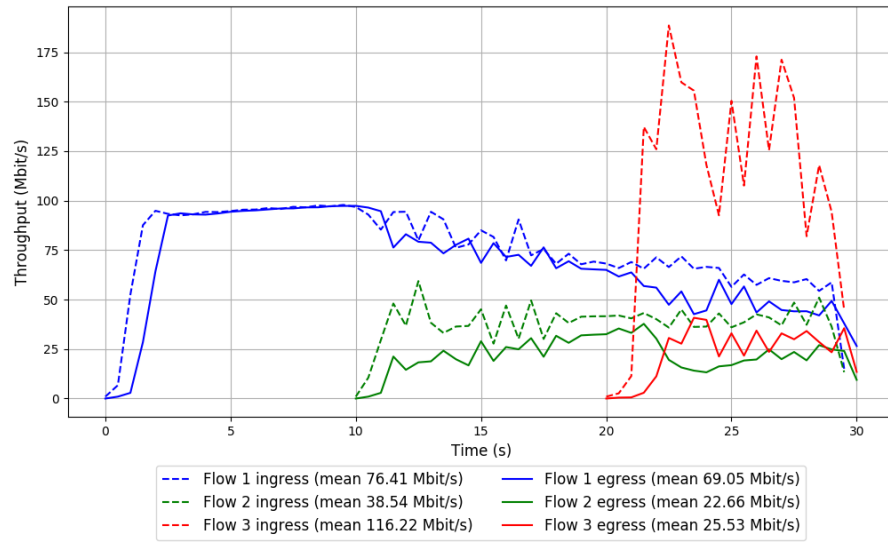
Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2019-01-17 14:11:17
End at: 2019-01-17 14:11:47
Local clock offset: -4.169 ms
Remote clock offset: 2.111 ms


# Below is generated by plot.py at 2019-01-17 14:24:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 114.481 ms
Loss rate: 33.88%
-- Flow 1:
Average throughput: 67.67 Mbit/s
95th percentile per-packet one-way delay: 112.151 ms
Loss rate: 11.22%
-- Flow 2:
Average throughput: 25.80 Mbit/s
95th percentile per-packet one-way delay: 114.587 ms
Loss rate: 31.97%
-- Flow 3:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 112.174 ms
Loss rate: 80.22%
```
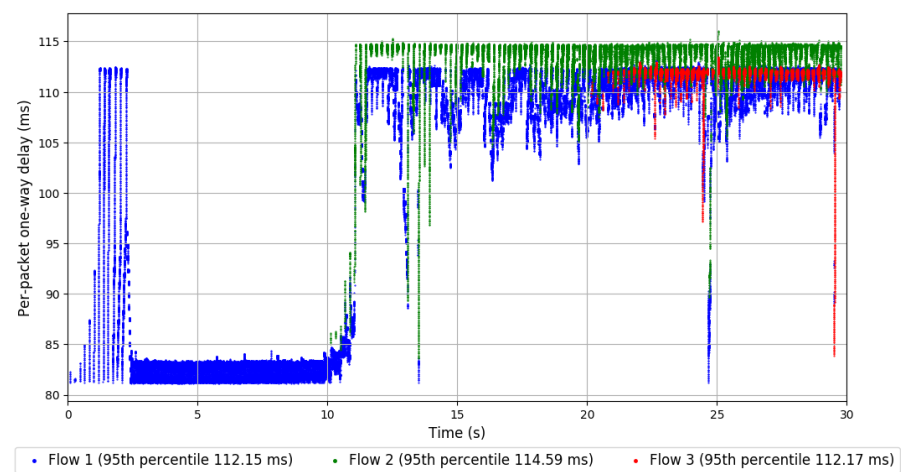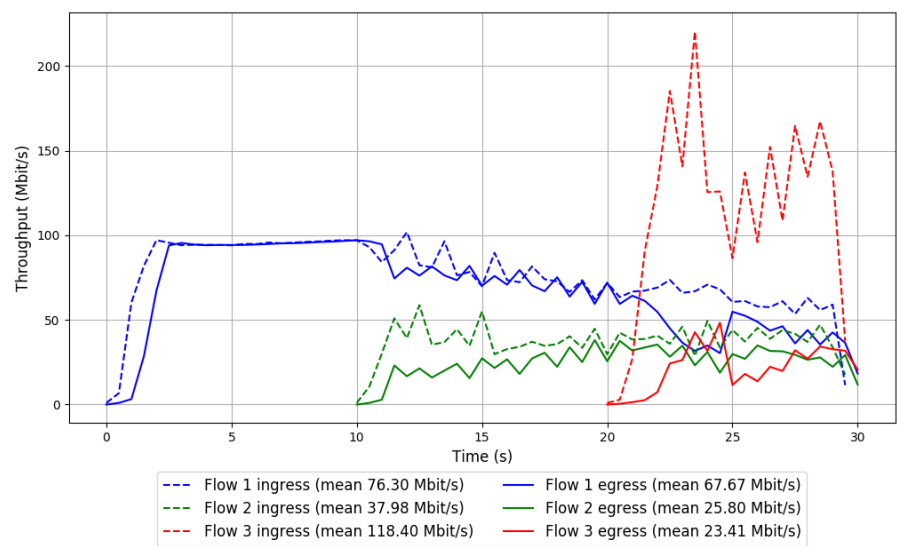
Run 5: Report of Indigo — Data Link

Flow 1 ingress (mean 76.30 Mbit/s) --- Flow 1 egress (mean 67.67 Mbit/s)
Flow 2 ingress (mean 37.98 Mbit/s) --- Flow 2 egress (mean 25.80 Mbit/s)
Flow 3 ingress (mean 118.40 Mbit/s) --- Flow 3 egress (mean 23.41 Mbit/s)

Flow 1 (95th percentile 112.15 ms)　　Flow 2 (95th percentile 114.59 ms)　　Flow 3 (95th percentile 112.17 ms)

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```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-17 12:15:41
End at: 2019-01-17 12:16:11
Local clock offset: -3.18 ms
Remote clock offset: 7.72 ms


# Below is generated by plot.py at 2019-01-17 14:24:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.92 Mbit/s
95th percentile per-packet one-way delay: 100.844 ms
Loss rate: 4.55%
-- Flow 1:
Average throughput: 79.84 Mbit/s
95th percentile per-packet one-way delay: 100.074 ms
Loss rate: 4.57%
-- Flow 2:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 103.671 ms
Loss rate: 4.34%
-- Flow 3:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 102.759 ms
Loss rate: 4.55%
```
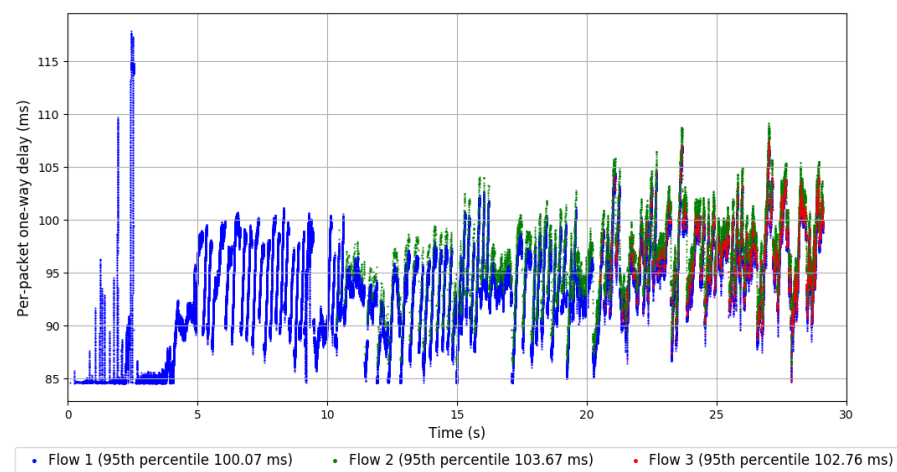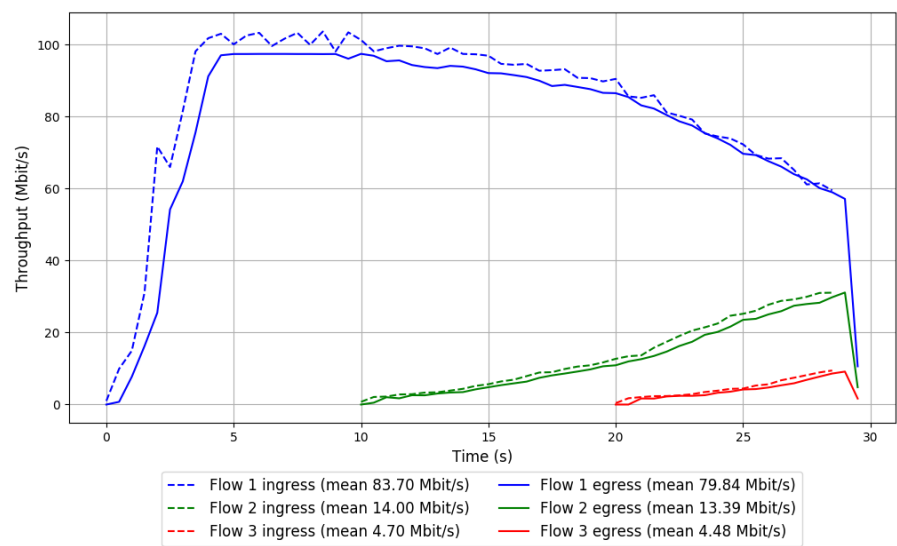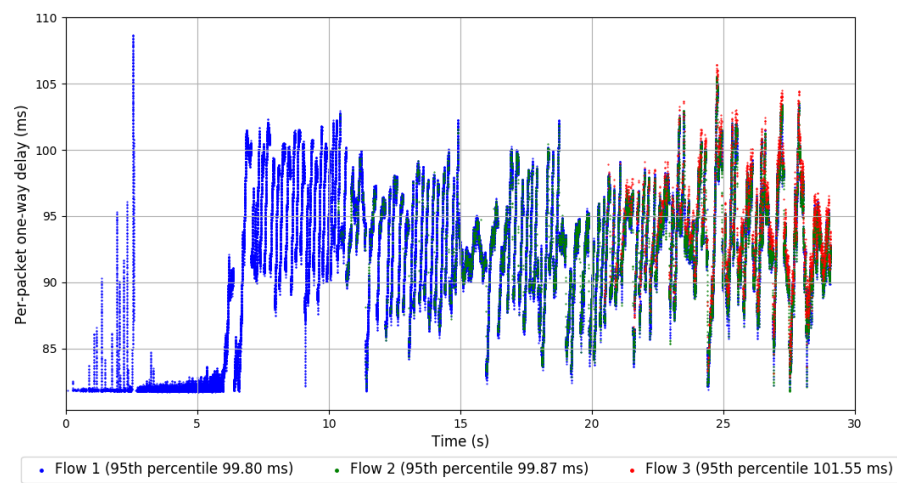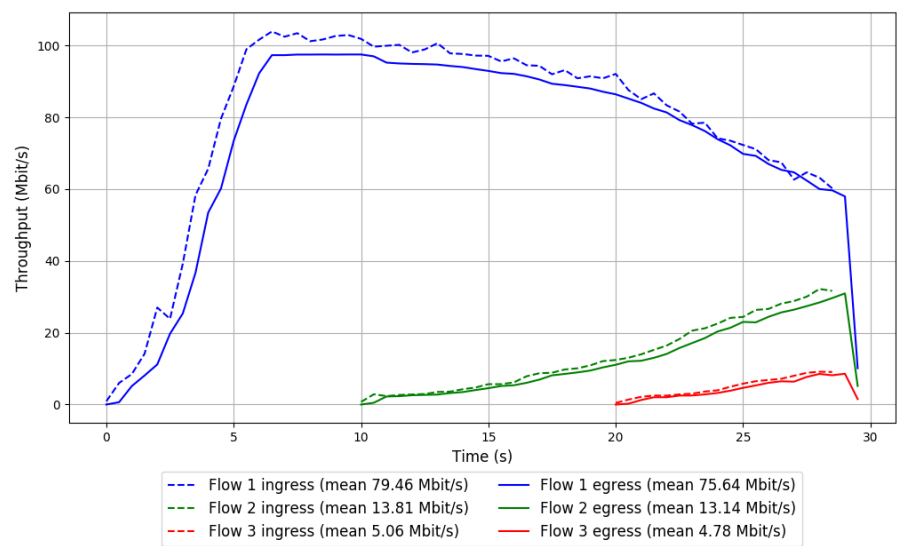
Run 1: Report of Indigo-MusesC3 — Data Link

Flow 1 ingress (mean 83.70 Mbit/s) --- Flow 1 egress (mean 79.84 Mbit/s)
Flow 2 ingress (mean 14.00 Mbit/s) --- Flow 2 egress (mean 13.39 Mbit/s)
Flow 3 ingress (mean 4.70 Mbit/s) --- Flow 3 egress (mean 4.48 Mbit/s)

Flow 1 (95th percentile 100.07 ms) · Flow 2 (95th percentile 103.67 ms) · Flow 3 (95th percentile 102.76 ms)

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-17 12:42:01
End at: 2019-01-17 12:42:31
Local clock offset: -4.054 ms
Remote clock offset: 3.655 ms


# Below is generated by plot.py at 2019-01-17 14:24:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.65 Mbit/s
95th percentile per-packet one-way delay: 99.831 ms
Loss rate: 4.80%
-- Flow 1:
Average throughput: 75.64 Mbit/s
95th percentile per-packet one-way delay: 99.795 ms
Loss rate: 4.78%
-- Flow 2:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 99.871 ms
Loss rate: 4.87%
-- Flow 3:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 101.553 ms
Loss rate: 5.53%
```
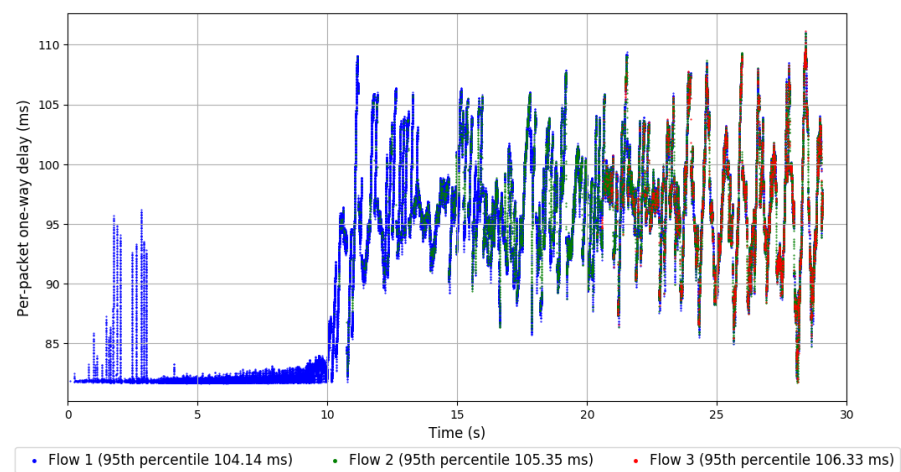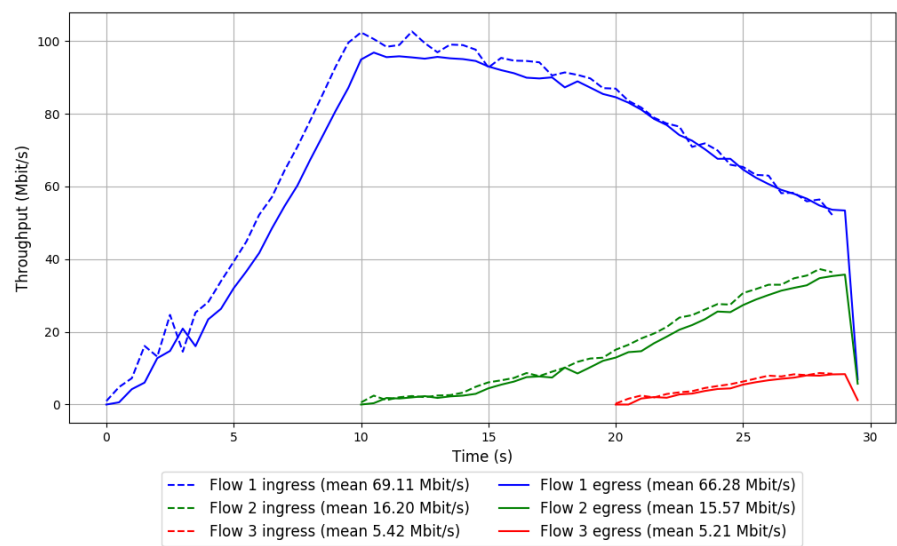
Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-17 13:08:22
End at: 2019-01-17 13:08:52
Local clock offset: -4.477 ms
Remote clock offset: 3.465 ms


# Below is generated by plot.py at 2019-01-17 14:24:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.95 Mbit/s
95th percentile per-packet one-way delay: 104.423 ms
Loss rate: 4.02%
-- Flow 1:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 104.142 ms
Loss rate: 4.04%
-- Flow 2:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 105.349 ms
Loss rate: 3.84%
-- Flow 3:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 106.330 ms
Loss rate: 3.92%
```
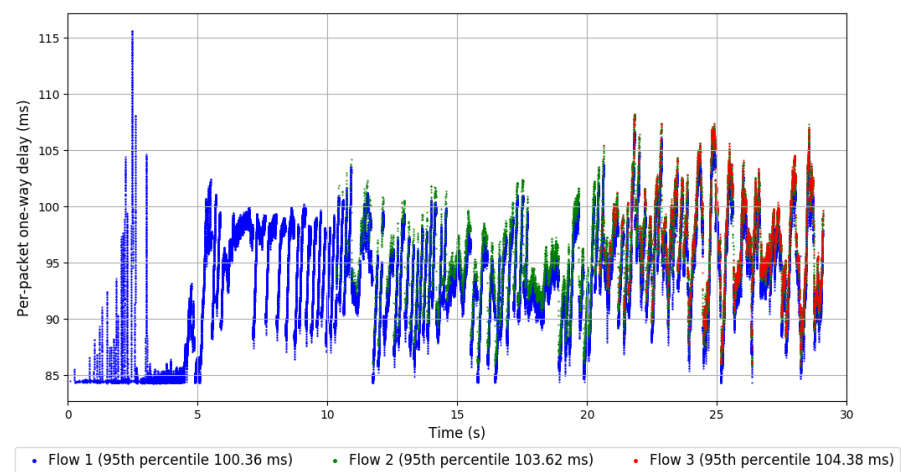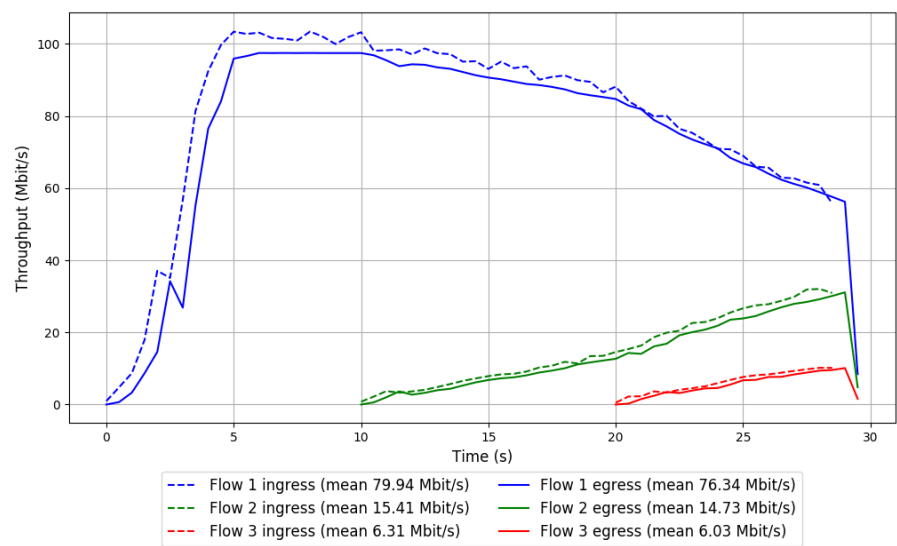
Run 3: Report of Indigo-MusesC3 — Data Link

- - - - Flow 1 ingress (mean 69.11 Mbit/s)   —— Flow 1 egress (mean 66.28 Mbit/s)
- - - - Flow 2 ingress (mean 16.20 Mbit/s)   —— Flow 2 egress (mean 15.57 Mbit/s)
- - - - Flow 3 ingress (mean 5.42 Mbit/s)   —— Flow 3 egress (mean 5.21 Mbit/s)

- Flow 1 (95th percentile 104.14 ms)   • Flow 2 (95th percentile 105.35 ms)   • Flow 3 (95th percentile 106.33 ms)

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-17 13:34:41
End at: 2019-01-17 13:35:11
Local clock offset: -4.223 ms
Remote clock offset: 6.595 ms


# Below is generated by plot.py at 2019-01-17 14:24:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 101.062 ms
Loss rate: 4.44%
-- Flow 1:
Average throughput: 76.34 Mbit/s
95th percentile per-packet one-way delay: 100.364 ms
Loss rate: 4.45%
-- Flow 2:
Average throughput: 14.73 Mbit/s
95th percentile per-packet one-way delay: 103.617 ms
Loss rate: 4.40%
-- Flow 3:
Average throughput: 6.03 Mbit/s
95th percentile per-packet one-way delay: 104.382 ms
Loss rate: 4.26%
```
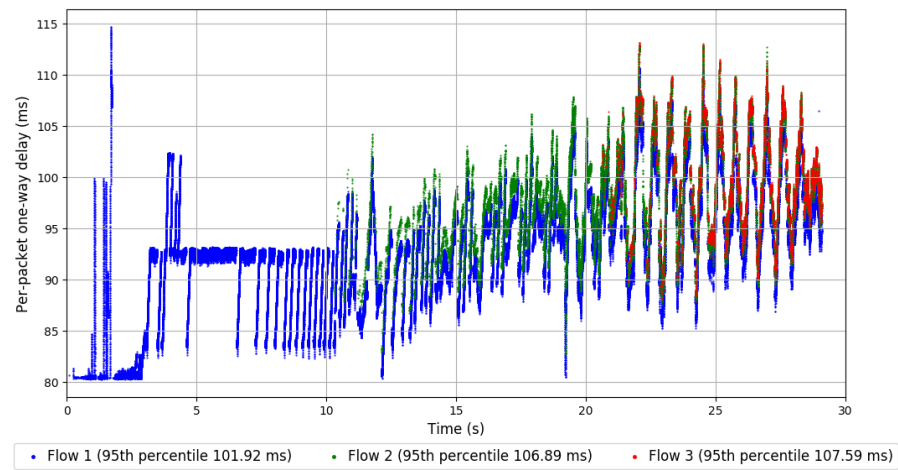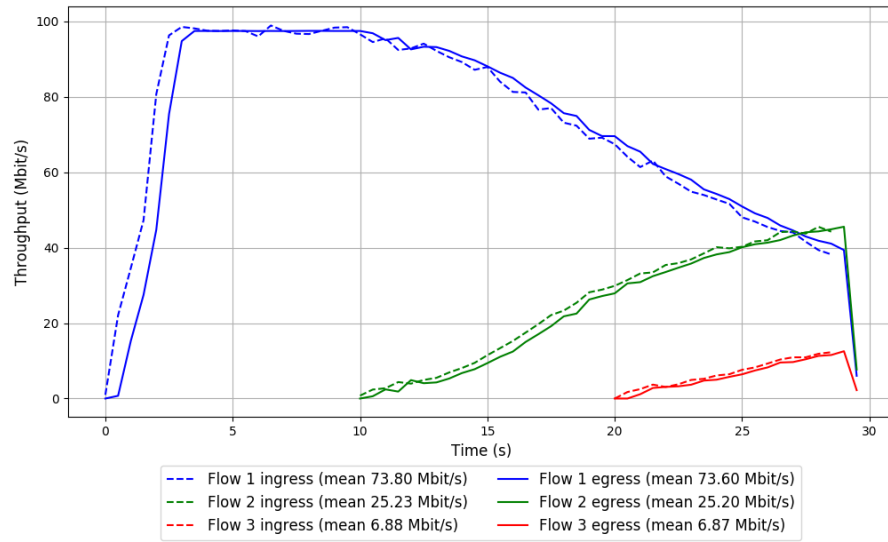
Run 4: Report of Indigo-MusesC3 — Data Link

- Flow 1 ingress (mean 79.94 Mbit/s) — Flow 1 egress (mean 76.34 Mbit/s)
- Flow 2 ingress (mean 15.41 Mbit/s) — Flow 2 egress (mean 14.73 Mbit/s)
- Flow 3 ingress (mean 6.31 Mbit/s) — Flow 3 egress (mean 6.03 Mbit/s)

- Flow 1 (95th percentile 100.36 ms) • Flow 2 (95th percentile 103.62 ms) • Flow 3 (95th percentile 104.38 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-17 14:01:06
End at: 2019-01-17 14:01:36
Local clock offset: -3.653 ms
Remote clock offset: 2.231 ms


# Below is generated by plot.py at 2019-01-17 14:24:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 104.092 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 73.60 Mbit/s
95th percentile per-packet one-way delay: 101.919 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 25.20 Mbit/s
95th percentile per-packet one-way delay: 106.891 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 107.586 ms
Loss rate: 0.16%
```
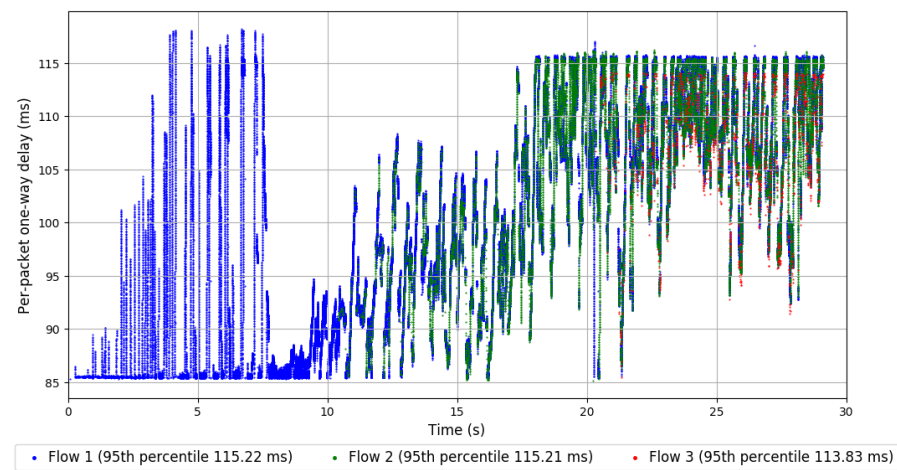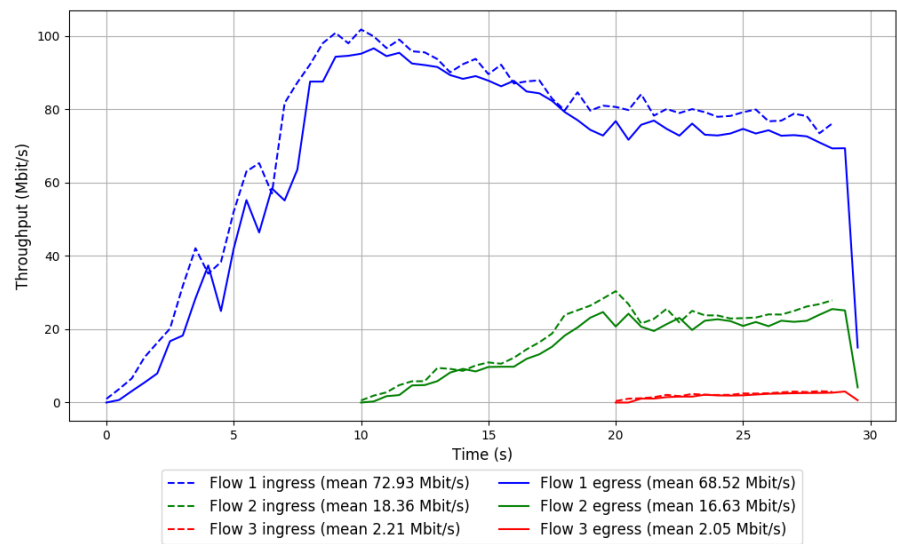
Run 5: Report of Indigo-MusesC3 — Data Link

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```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-17 12:24:20
End at: 2019-01-17 12:24:50
Local clock offset: -3.332 ms
Remote clock offset: 7.35 ms


# Below is generated by plot.py at 2019-01-17 14:25:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.94 Mbit/s
95th percentile per-packet one-way delay: 115.215 ms
Loss rate: 6.42%
-- Flow 1:
Average throughput: 68.52 Mbit/s
95th percentile per-packet one-way delay: 115.221 ms
Loss rate: 5.95%
-- Flow 2:
Average throughput: 16.63 Mbit/s
95th percentile per-packet one-way delay: 115.213 ms
Loss rate: 9.27%
-- Flow 3:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 113.833 ms
Loss rate: 7.31%
```
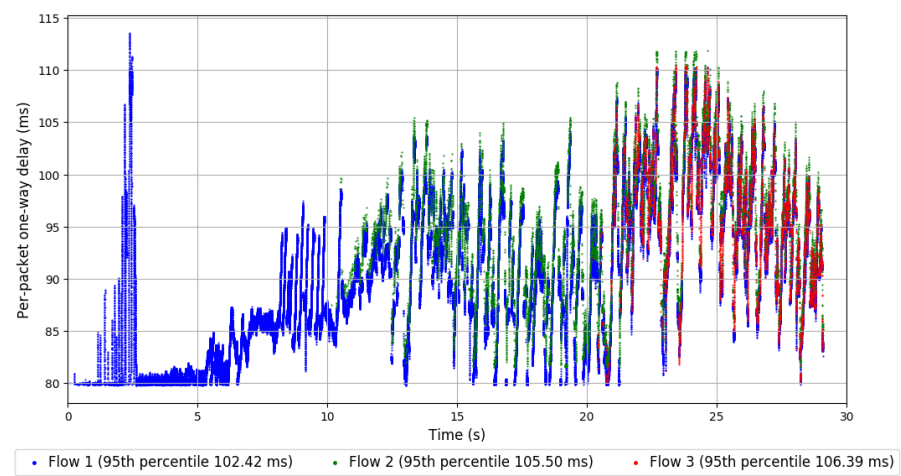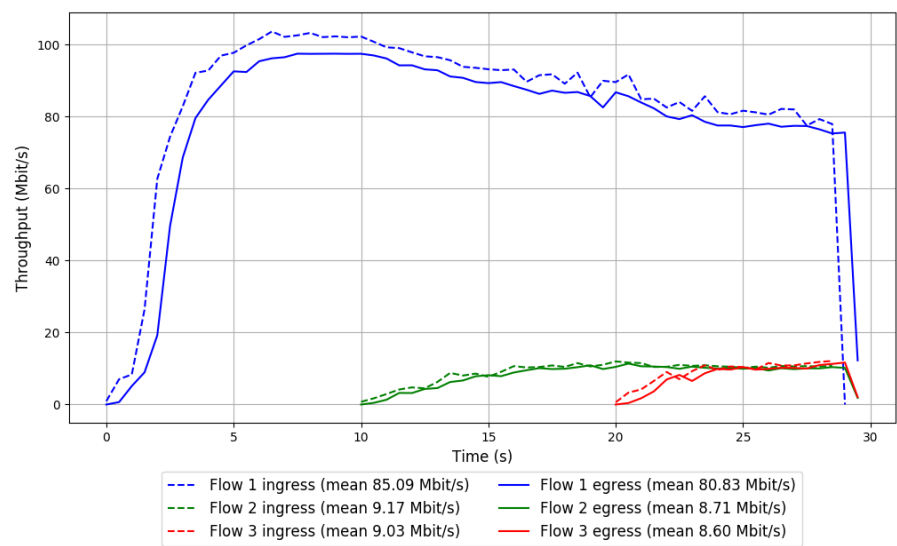
Run 1: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 72.93 Mbit/s) — — — Flow 1 egress (mean 68.52 Mbit/s) ——
Flow 2 ingress (mean 18.36 Mbit/s) — — — Flow 2 egress (mean 16.63 Mbit/s) ——
Flow 3 ingress (mean 2.21 Mbit/s) — — — Flow 3 egress (mean 2.05 Mbit/s) ——

Flow 1 (95th percentile 115.22 ms) • Flow 2 (95th percentile 115.21 ms) • Flow 3 (95th percentile 113.83 ms)

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-17 12:50:40
End at: 2019-01-17 12:51:10
Local clock offset: -4.187 ms
Remote clock offset: 3.383 ms


# Below is generated by plot.py at 2019-01-17 14:25:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 102.966 ms
Loss rate: 4.99%
-- Flow 1:
Average throughput: 80.83 Mbit/s
95th percentile per-packet one-way delay: 102.417 ms
Loss rate: 5.00%
-- Flow 2:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 105.497 ms
Loss rate: 5.06%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 106.391 ms
Loss rate: 4.78%
```
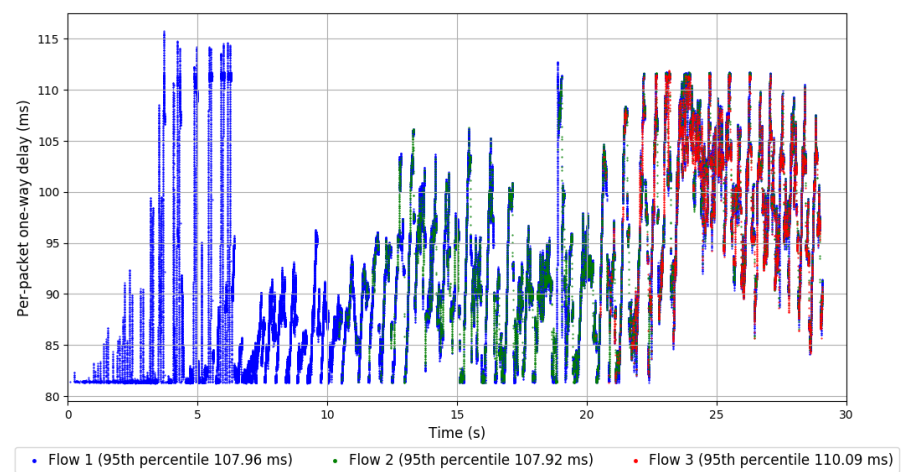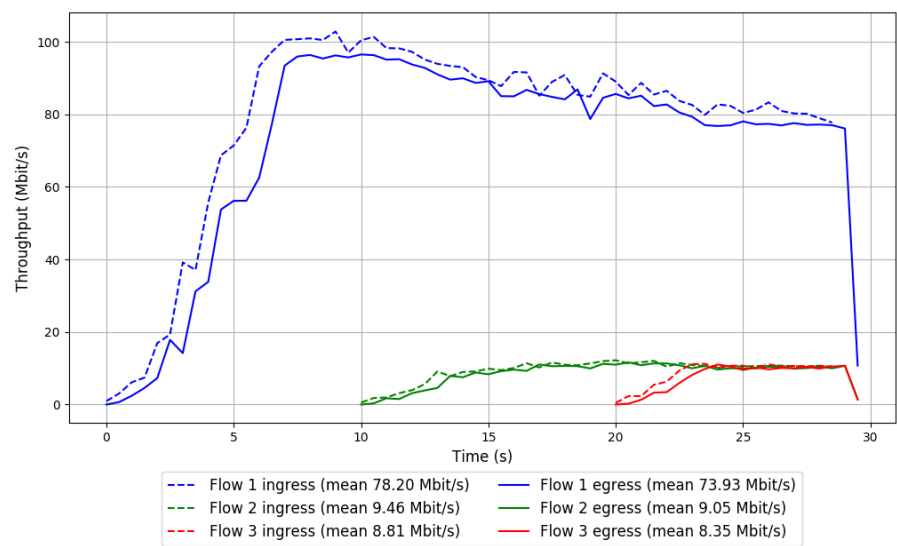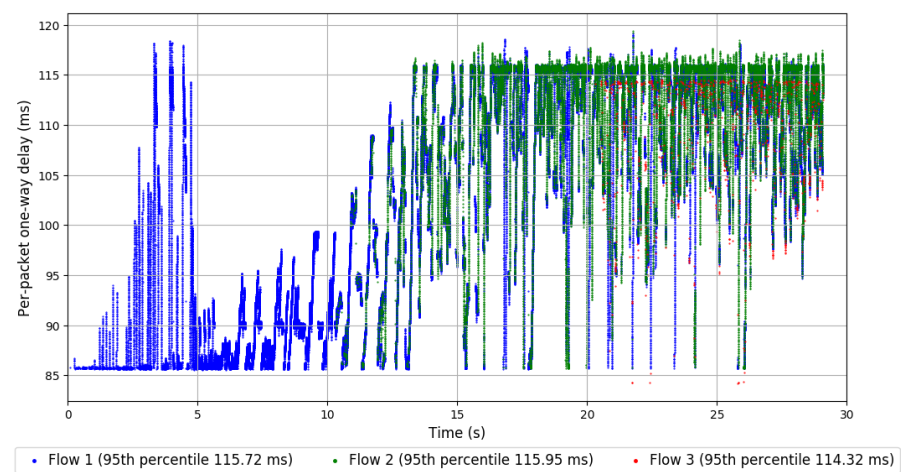
Run 2: Report of Indigo-MusesC5 — Data Link

- - - - Flow 1 ingress (mean 85.09 Mbit/s)   —— Flow 1 egress (mean 80.83 Mbit/s)
- - - - Flow 2 ingress (mean 9.17 Mbit/s)   —— Flow 2 egress (mean 8.71 Mbit/s)
- - - - Flow 3 ingress (mean 9.03 Mbit/s)   —— Flow 3 egress (mean 8.60 Mbit/s)

• Flow 1 (95th percentile 102.42 ms)   • Flow 2 (95th percentile 105.50 ms)   • Flow 3 (95th percentile 106.39 ms)

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-17 13:16:58
End at: 2019-01-17 13:17:28
Local clock offset: -5.325 ms
Remote clock offset: 2.22 ms


# Below is generated by plot.py at 2019-01-17 14:25:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.32 Mbit/s
95th percentile per-packet one-way delay: 108.074 ms
Loss rate: 5.34%
-- Flow 1:
Average throughput: 73.93 Mbit/s
95th percentile per-packet one-way delay: 107.956 ms
Loss rate: 5.42%
-- Flow 2:
Average throughput: 9.05 Mbit/s
95th percentile per-packet one-way delay: 107.924 ms
Loss rate: 4.32%
-- Flow 3:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 110.088 ms
Loss rate: 5.26%
```
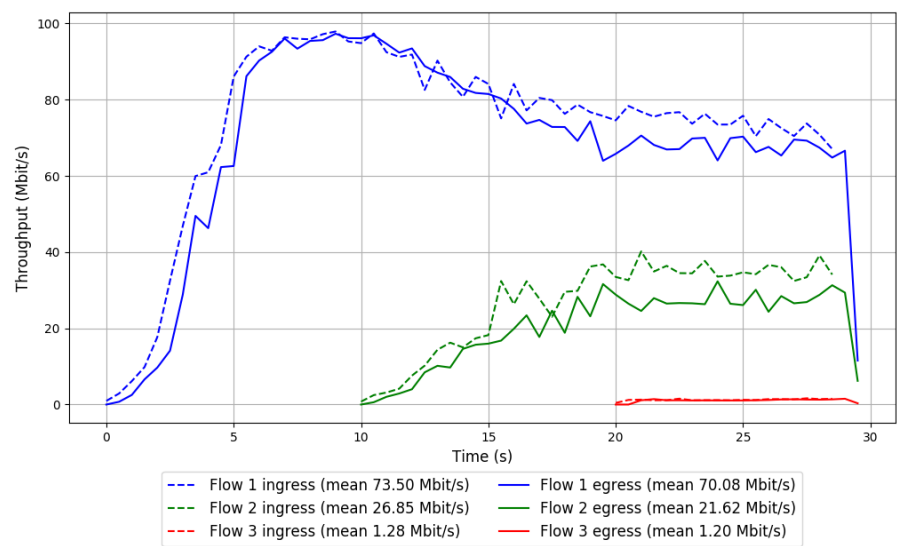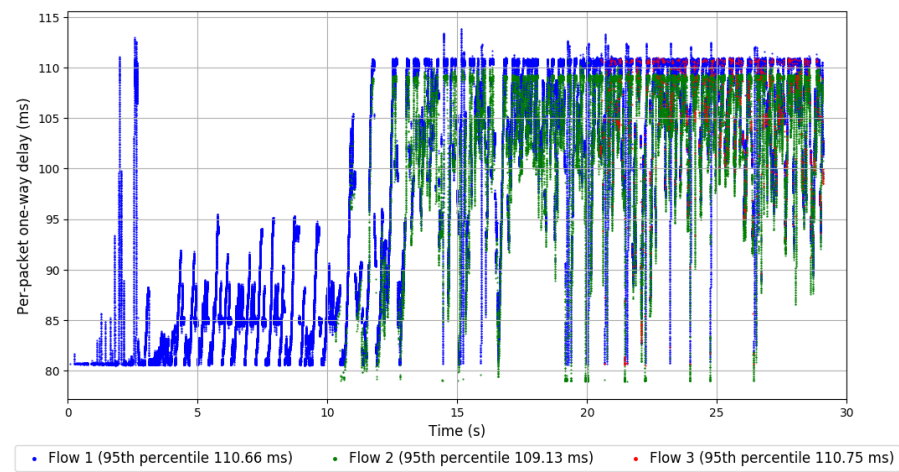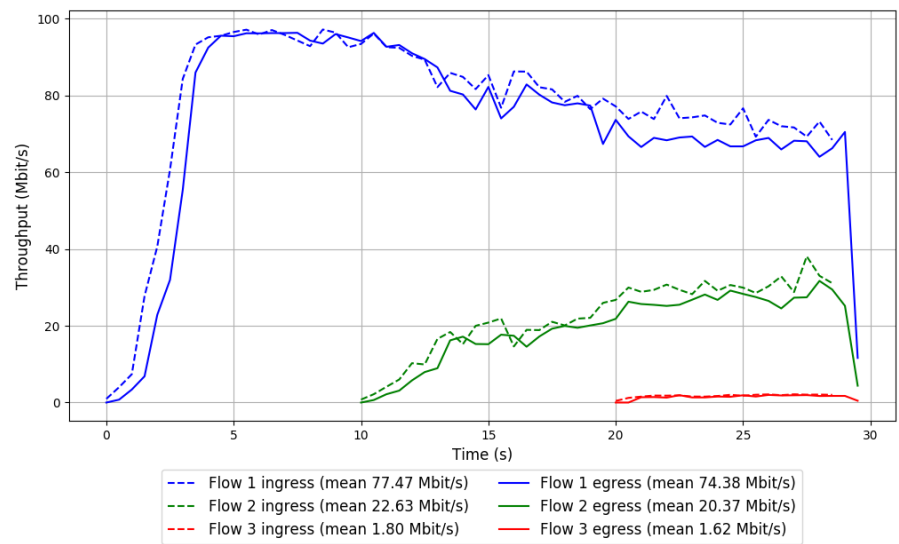
Run 3: Report of Indigo-MusesC5 — Data Link

- - - Flow 1 ingress (mean 78.20 Mbit/s) ——— Flow 1 egress (mean 73.93 Mbit/s)
- - - Flow 2 ingress (mean 9.46 Mbit/s) ——— Flow 2 egress (mean 9.05 Mbit/s)
- - - Flow 3 ingress (mean 8.81 Mbit/s) ——— Flow 3 egress (mean 8.35 Mbit/s)

- Flow 1 (95th percentile 107.96 ms)   • Flow 2 (95th percentile 107.92 ms)   • Flow 3 (95th percentile 110.09 ms)

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-17 13:43:20
End at: 2019-01-17 13:43:50
Local clock offset: -4.199 ms
Remote clock offset: 6.34 ms


# Below is generated by plot.py at 2019-01-17 14:25:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.56 Mbit/s
95th percentile per-packet one-way delay: 115.775 ms
Loss rate: 7.41%
-- Flow 1:
Average throughput: 70.08 Mbit/s
95th percentile per-packet one-way delay: 115.715 ms
Loss rate: 4.56%
-- Flow 2:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 115.948 ms
Loss rate: 19.38%
-- Flow 3:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 114.321 ms
Loss rate: 6.65%
```
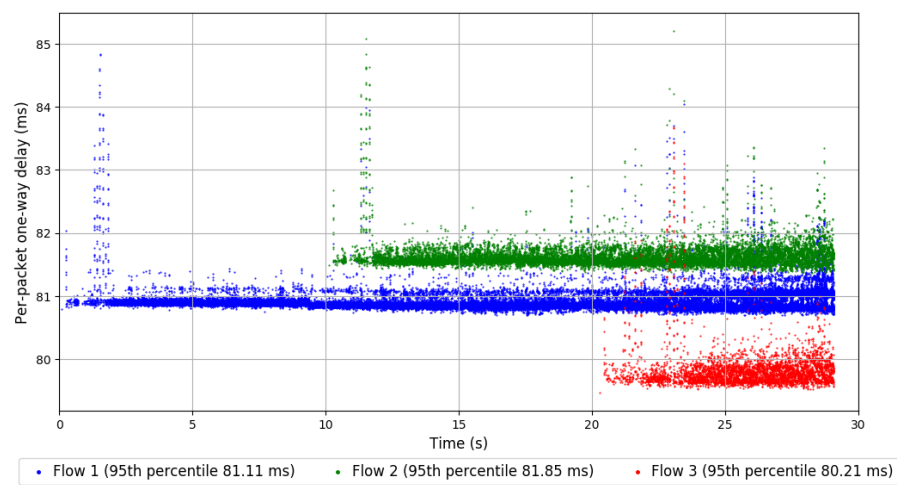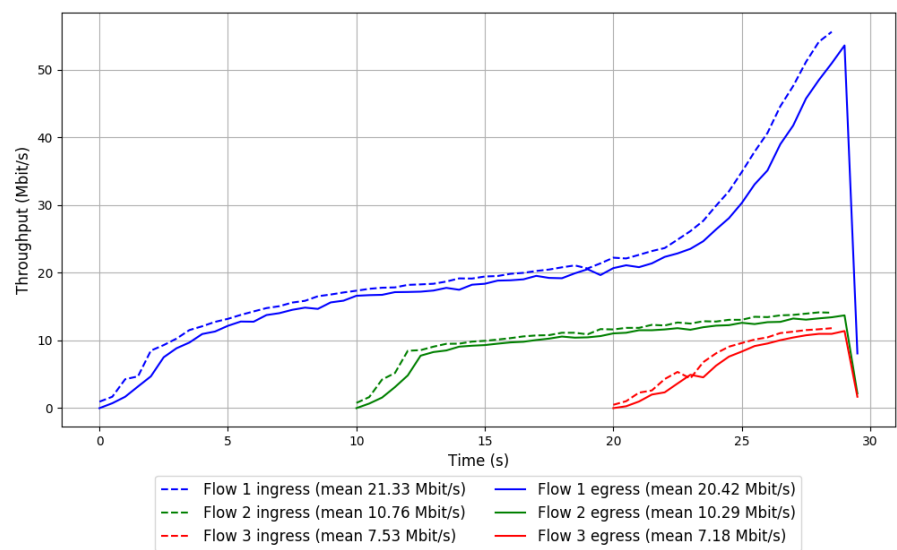
Run 4: Report of Indigo-MusesC5 — Data Link

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-17 14:09:57
End at: 2019-01-17 14:10:27
Local clock offset: -3.411 ms
Remote clock offset: 1.019 ms


# Below is generated by plot.py at 2019-01-17 14:25:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.18 Mbit/s
95th percentile per-packet one-way delay: 110.637 ms
Loss rate: 4.92%
-- Flow 1:
Average throughput: 74.38 Mbit/s
95th percentile per-packet one-way delay: 110.662 ms
Loss rate: 3.93%
-- Flow 2:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 109.127 ms
Loss rate: 9.95%
-- Flow 3:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 110.748 ms
Loss rate: 9.97%
```

Run 5: Report of Indigo-MusesC5 — Data Link

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-17 12:21:50
End at: 2019-01-17 12:22:20
Local clock offset: -3.012 ms
Remote clock offset: 3.564 ms


# Below is generated by plot.py at 2019-01-17 14:25:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 81.711 ms
Loss rate: 4.31%
-- Flow 1:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 81.107 ms
Loss rate: 4.27%
-- Flow 2:
Average throughput: 10.29 Mbit/s
95th percentile per-packet one-way delay: 81.848 ms
Loss rate: 4.36%
-- Flow 3:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 80.207 ms
Loss rate: 4.60%
```
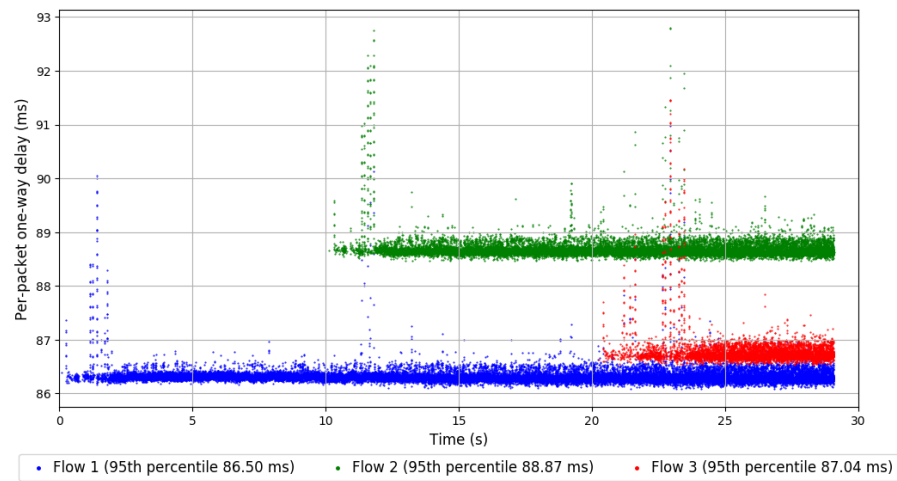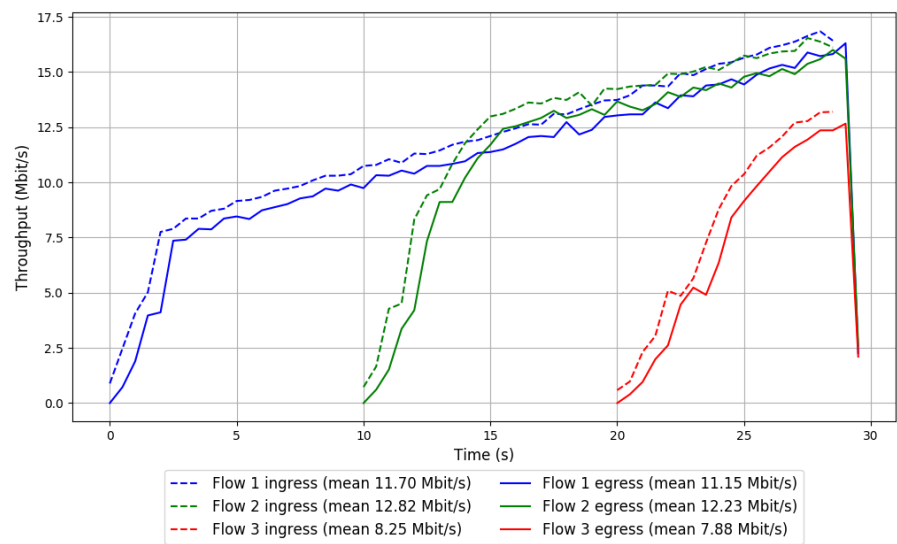
Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-17 12:48:11
End at: 2019-01-17 12:48:41
Local clock offset: -4.128 ms
Remote clock offset: 8.468 ms


# Below is generated by plot.py at 2019-01-17 14:25:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 88.780 ms
Loss rate: 4.67%
-- Flow 1:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 86.500 ms
Loss rate: 4.76%
-- Flow 2:
Average throughput: 12.23 Mbit/s
95th percentile per-packet one-way delay: 88.869 ms
Loss rate: 4.60%
-- Flow 3:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 87.039 ms
Loss rate: 4.50%
```
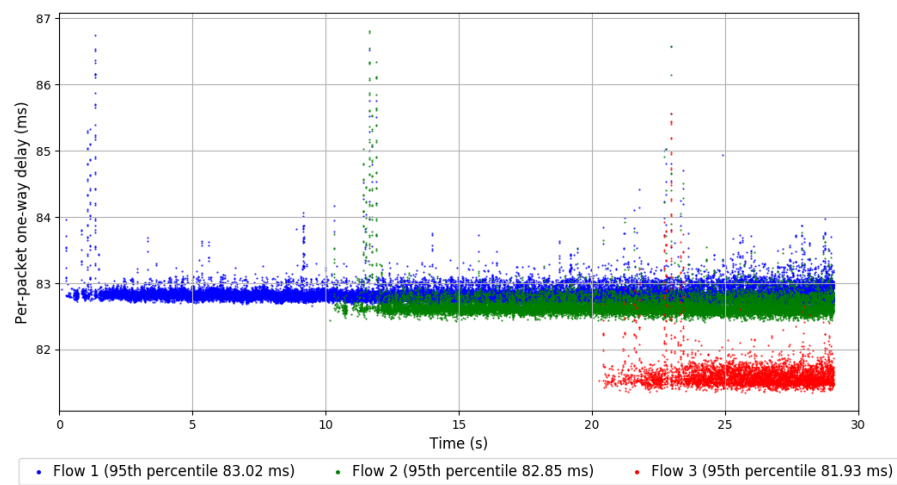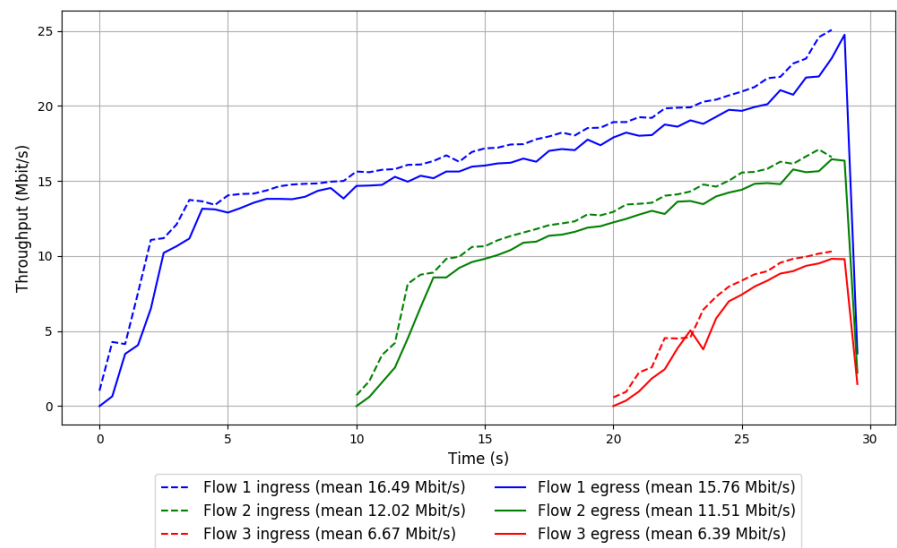
Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-17 13:14:30
End at: 2019-01-17 13:15:00
Local clock offset: -5.311 ms
Remote clock offset: 2.436 ms


# Below is generated by plot.py at 2019-01-17 14:25:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.21 Mbit/s
95th percentile per-packet one-way delay: 82.988 ms
Loss rate: 4.38%
-- Flow 1:
Average throughput: 15.76 Mbit/s
95th percentile per-packet one-way delay: 83.017 ms
Loss rate: 4.48%
-- Flow 2:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 82.849 ms
Loss rate: 4.23%
-- Flow 3:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 81.928 ms
Loss rate: 4.19%
```
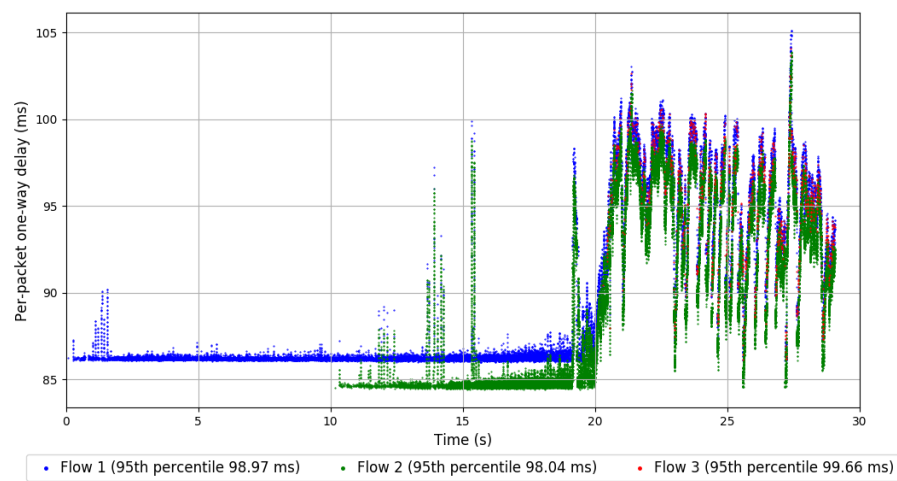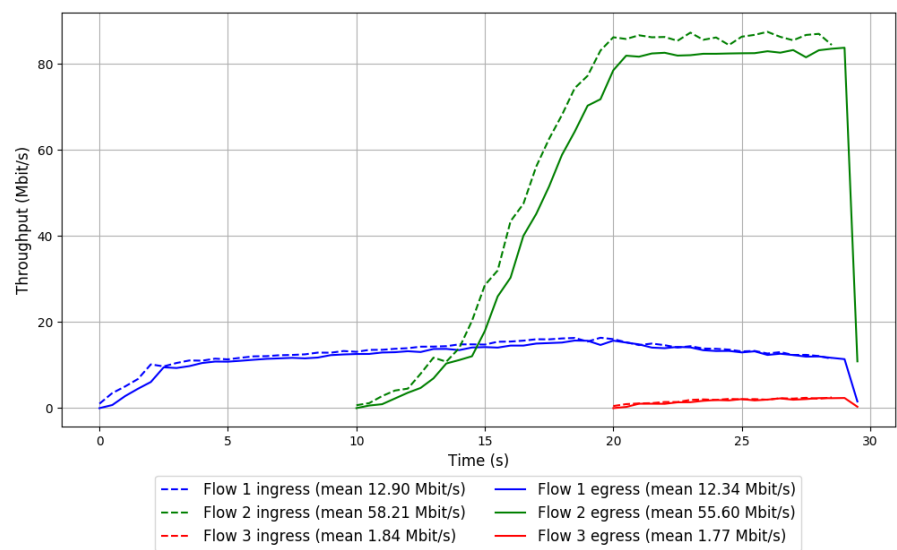
Run 3: Report of Indigo-MusesD — Data Link

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-17 13:40:51
End at: 2019-01-17 13:41:21
Local clock offset: -4.973 ms
Remote clock offset: 5.974 ms


# Below is generated by plot.py at 2019-01-17 14:25:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.14 Mbit/s
95th percentile per-packet one-way delay: 98.251 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 12.34 Mbit/s
95th percentile per-packet one-way delay: 98.970 ms
Loss rate: 4.34%
-- Flow 2:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 98.039 ms
Loss rate: 4.45%
-- Flow 3:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 99.664 ms
Loss rate: 3.91%
```
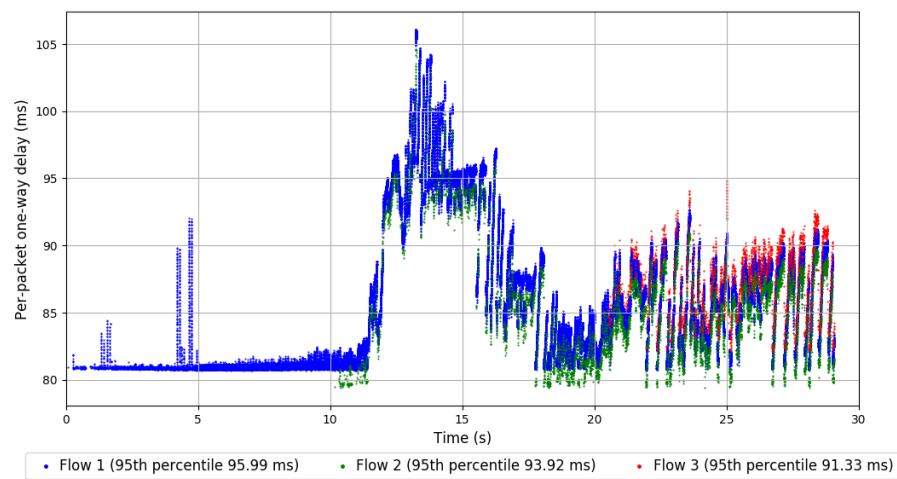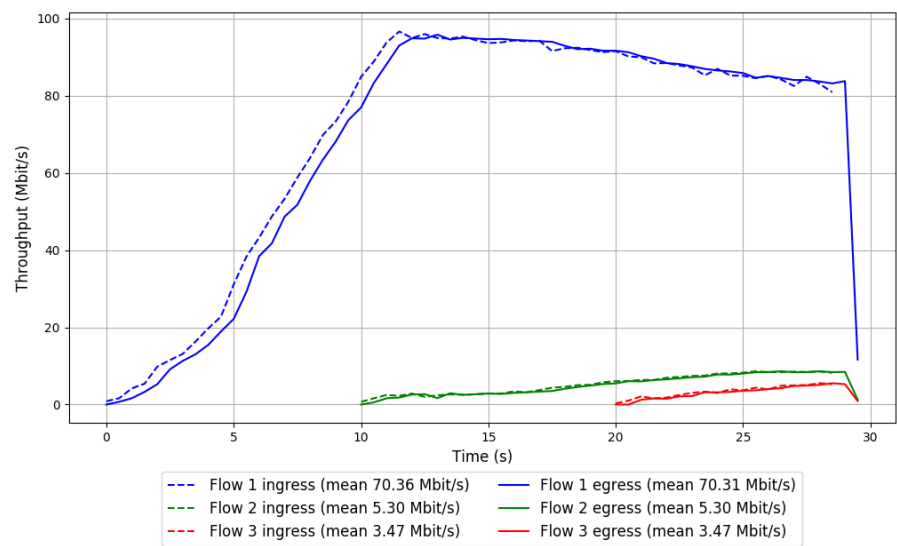
Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-17 14:07:24
End at: 2019-01-17 14:07:54
Local clock offset: -3.525 ms
Remote clock offset: 1.126 ms


# Below is generated by plot.py at 2019-01-17 14:25:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 95.886 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 70.31 Mbit/s
95th percentile per-packet one-way delay: 95.986 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 93.919 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 91.332 ms
Loss rate: 0.04%
```
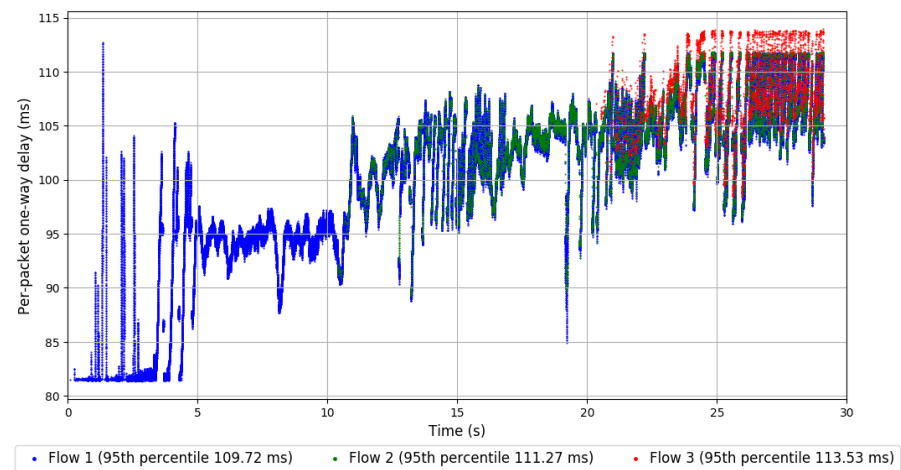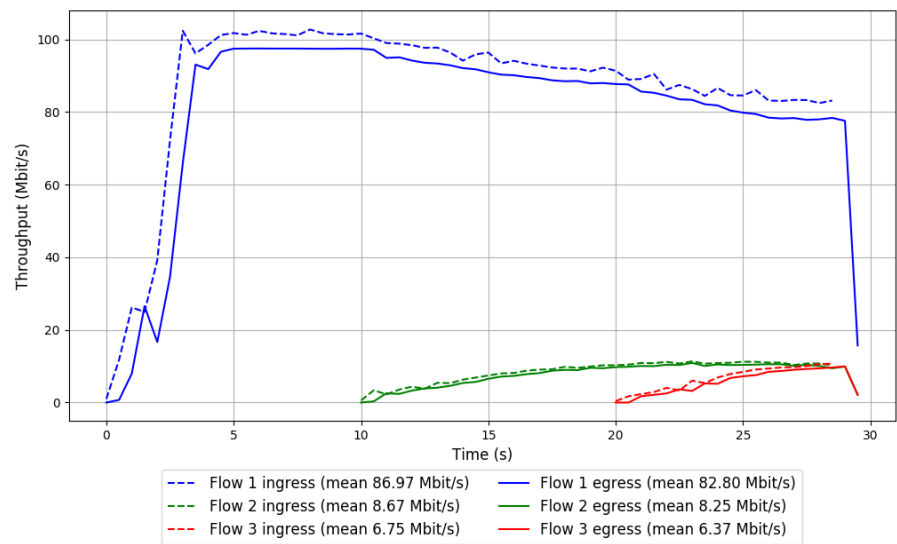
Run 5: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 70.36 Mbit/s)   Flow 1 egress (mean 70.31 Mbit/s)
Flow 2 ingress (mean 5.30 Mbit/s)   Flow 2 egress (mean 5.30 Mbit/s)
Flow 3 ingress (mean 3.47 Mbit/s)   Flow 3 egress (mean 3.47 Mbit/s)

Flow 1 (95th percentile 95.99 ms)   Flow 2 (95th percentile 93.92 ms)   Flow 3 (95th percentile 91.33 ms)

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-17 12:14:23
End at: 2019-01-17 12:14:53
Local clock offset: -3.204 ms
Remote clock offset: 3.88 ms


# Below is generated by plot.py at 2019-01-17 14:26:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 110.236 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 82.80 Mbit/s
95th percentile per-packet one-way delay: 109.721 ms
Loss rate: 4.72%
-- Flow 2:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 111.267 ms
Loss rate: 4.82%
-- Flow 3:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 113.531 ms
Loss rate: 5.70%
```
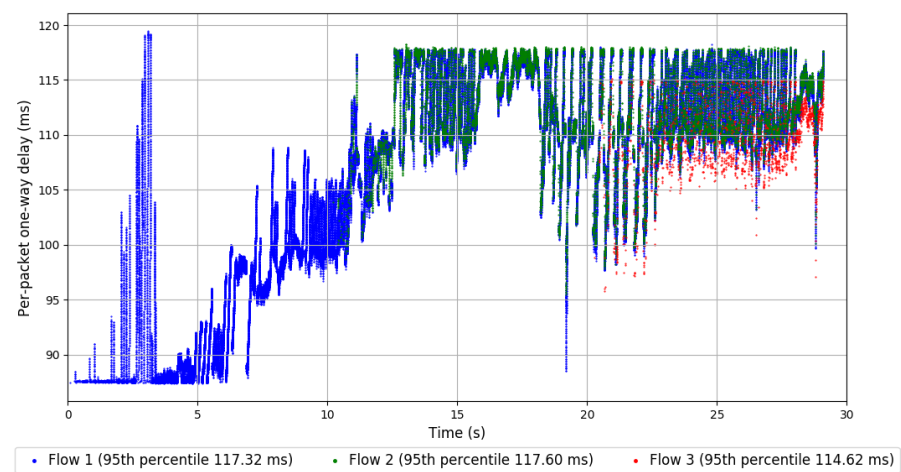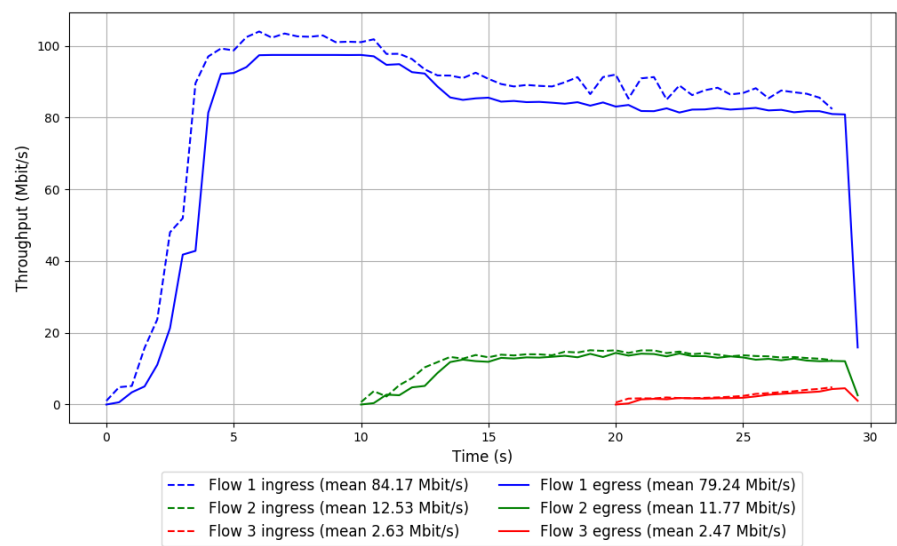
Run 1: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 86.97 Mbit/s)   Flow 1 egress (mean 82.80 Mbit/s)
Flow 2 ingress (mean 8.67 Mbit/s)   Flow 2 egress (mean 8.25 Mbit/s)
Flow 3 ingress (mean 6.75 Mbit/s)   Flow 3 egress (mean 6.37 Mbit/s)

Flow 1 (95th percentile 109.72 ms)   Flow 2 (95th percentile 111.27 ms)   Flow 3 (95th percentile 113.53 ms)

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-17 12:40:40
End at: 2019-01-17 12:41:10
Local clock offset: -4.809 ms
Remote clock offset: 7.689 ms

# Below is generated by plot.py at 2019-01-17 14:26:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.65 Mbit/s
95th percentile per-packet one-way delay: 117.351 ms
Loss rate: 5.78%
-- Flow 1:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 117.324 ms
Loss rate: 5.75%
-- Flow 2:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 117.598 ms
Loss rate: 6.02%
-- Flow 3:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 114.618 ms
Loss rate: 5.91%
```
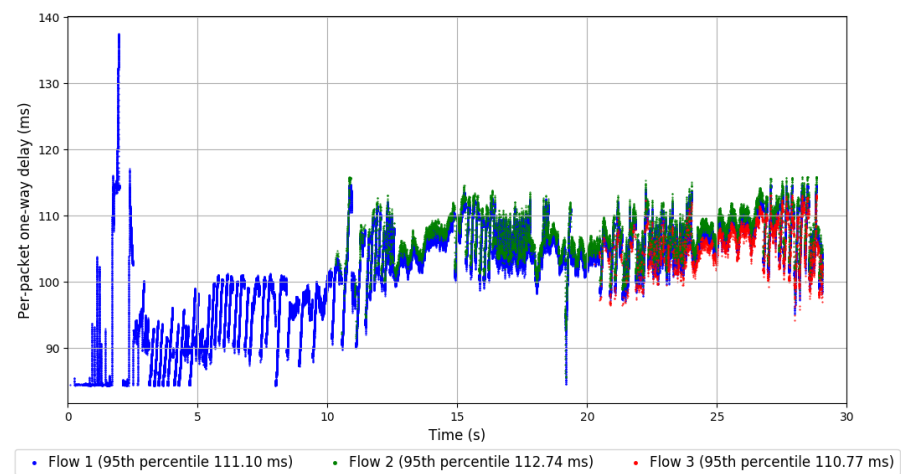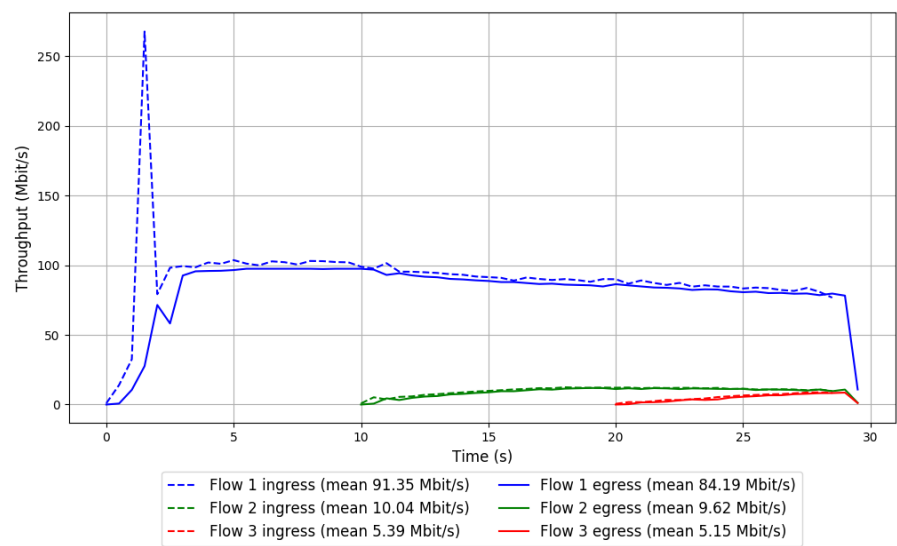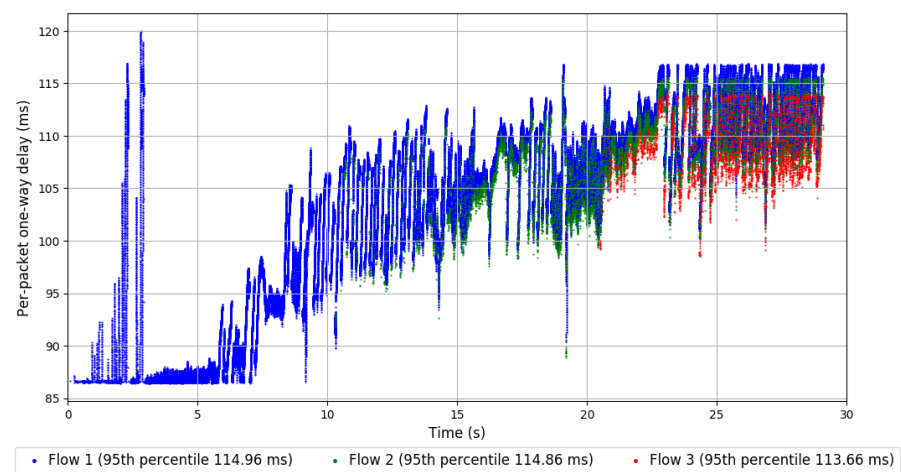
Run 2: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 84.17 Mbit/s) --- Flow 1 egress (mean 79.24 Mbit/s)
Flow 2 ingress (mean 12.53 Mbit/s) --- Flow 2 egress (mean 11.77 Mbit/s)
Flow 3 ingress (mean 2.63 Mbit/s) --- Flow 3 egress (mean 2.47 Mbit/s)

Flow 1 (95th percentile 117.32 ms) · Flow 2 (95th percentile 117.60 ms) · Flow 3 (95th percentile 114.62 ms)

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-17 13:07:03
End at: 2019-01-17 13:07:33
Local clock offset: -4.458 ms
Remote clock offset: 6.12 ms


# Below is generated by plot.py at 2019-01-17 14:26:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.04 Mbit/s
95th percentile per-packet one-way delay: 111.274 ms
Loss rate: 7.47%
-- Flow 1:
Average throughput: 84.19 Mbit/s
95th percentile per-packet one-way delay: 111.103 ms
Loss rate: 7.77%
-- Flow 2:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 112.738 ms
Loss rate: 4.10%
-- Flow 3:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 110.771 ms
Loss rate: 4.54%
```
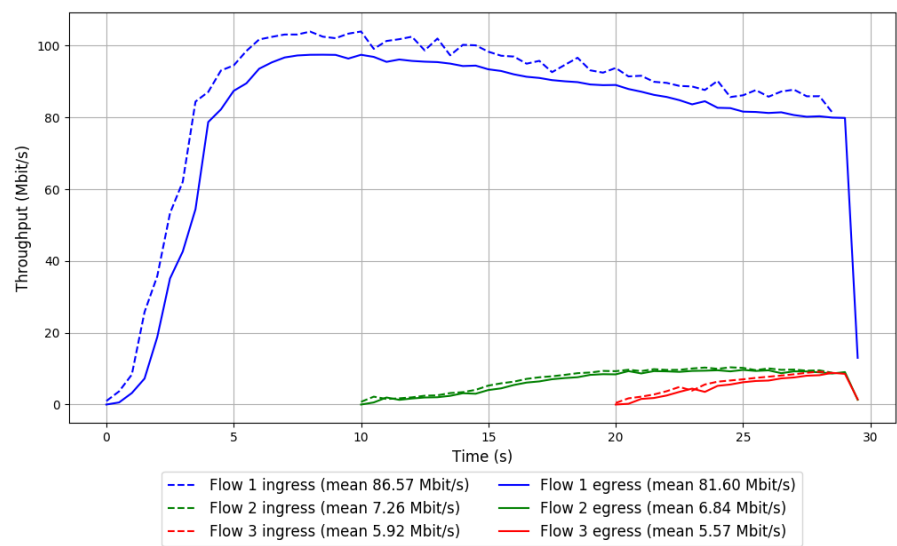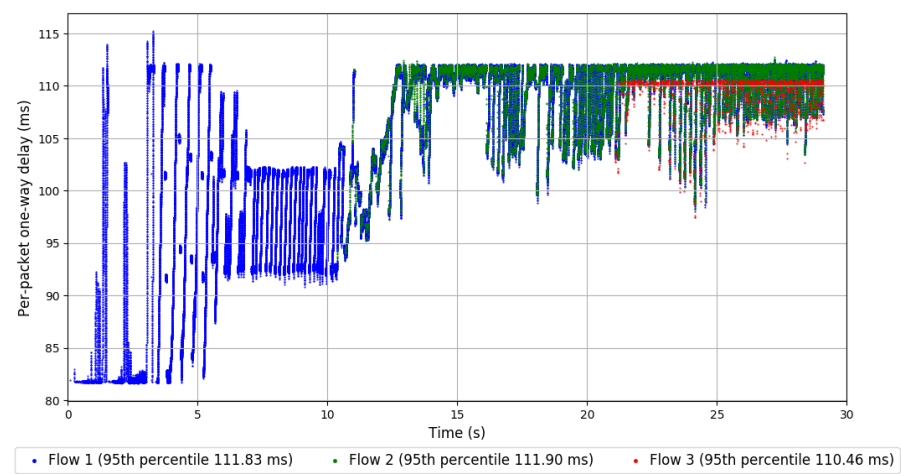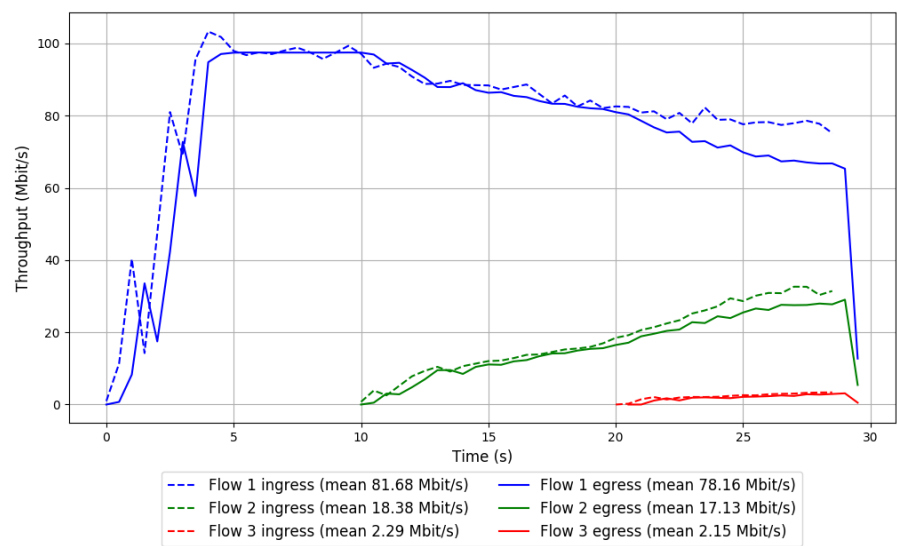
Run 3: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 91.35 Mbit/s)   Flow 1 egress (mean 84.19 Mbit/s)
Flow 2 ingress (mean 10.04 Mbit/s)   Flow 2 egress (mean 9.62 Mbit/s)
Flow 3 ingress (mean 5.39 Mbit/s)   Flow 3 egress (mean 5.15 Mbit/s)

Flow 1 (95th percentile 111.10 ms)   Flow 2 (95th percentile 112.74 ms)   Flow 3 (95th percentile 110.77 ms)

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-17 13:33:23
End at: 2019-01-17 13:33:53
Local clock offset: -4.989 ms
Remote clock offset: 5.23 ms


# Below is generated by plot.py at 2019-01-17 14:26:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 114.901 ms
Loss rate: 5.66%
-- Flow 1:
Average throughput: 81.60 Mbit/s
95th percentile per-packet one-way delay: 114.961 ms
Loss rate: 5.65%
-- Flow 2:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 114.861 ms
Loss rate: 5.76%
-- Flow 3:
Average throughput: 5.57 Mbit/s
95th percentile per-packet one-way delay: 113.661 ms
Loss rate: 5.87%
```
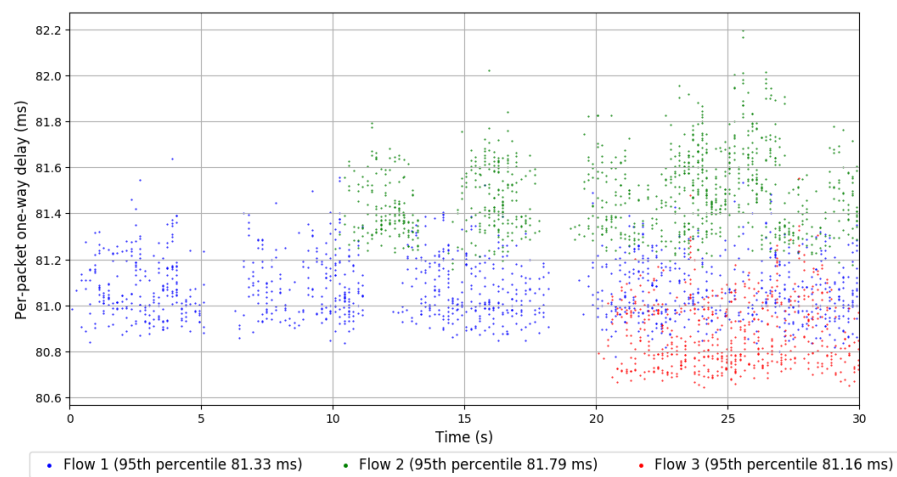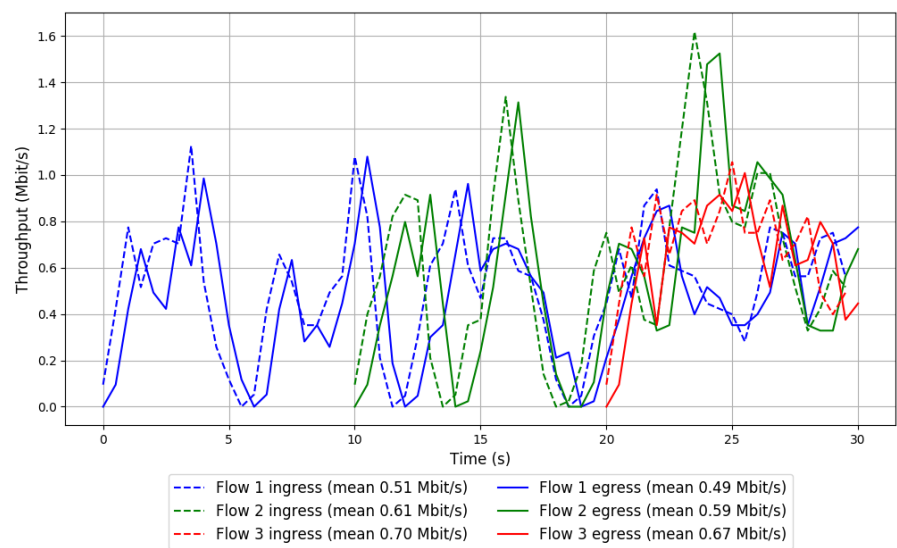
Run 4: Report of Indigo-MusesT — Data Link

```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-17 13:59:49
End at: 2019-01-17 14:00:19
Local clock offset: -3.626 ms
Remote clock offset: 2.17 ms


# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.94 Mbit/s
95th percentile per-packet one-way delay: 111.843 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 78.16 Mbit/s
95th percentile per-packet one-way delay: 111.832 ms
Loss rate: 4.23%
-- Flow 2:
Average throughput: 17.13 Mbit/s
95th percentile per-packet one-way delay: 111.904 ms
Loss rate: 6.71%
-- Flow 3:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 110.462 ms
Loss rate: 11.57%
```
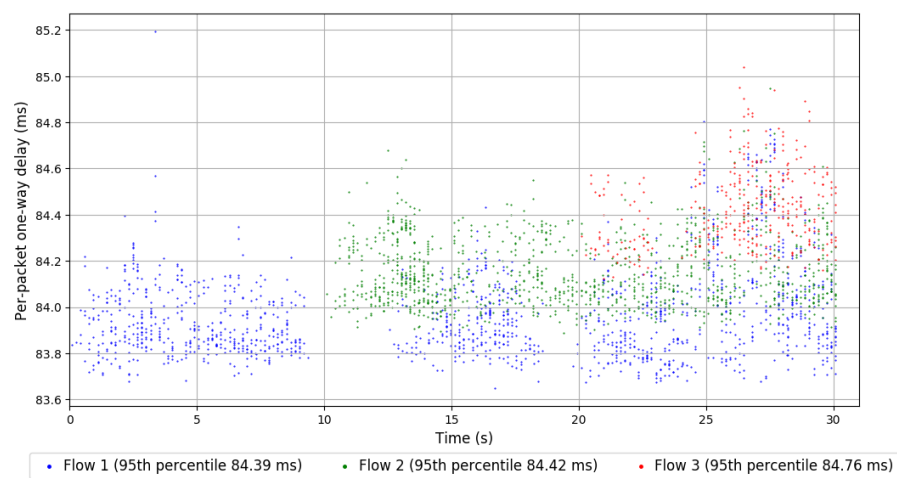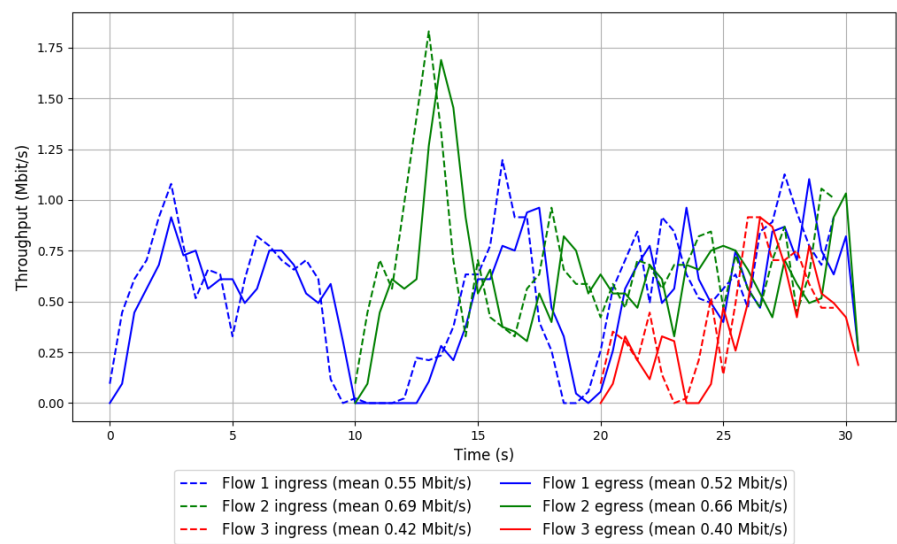
Run 5: Report of Indigo-MusesT — Data Link

Legend:
- Flow 1 ingress (mean 81.68 Mbit/s) — Flow 1 egress (mean 78.16 Mbit/s)
- Flow 2 ingress (mean 18.38 Mbit/s) — Flow 2 egress (mean 17.13 Mbit/s)
- Flow 3 ingress (mean 2.29 Mbit/s) — Flow 3 egress (mean 2.15 Mbit/s)

Legend:
- Flow 1 (95th percentile 111.83 ms)
- Flow 2 (95th percentile 111.90 ms)
- Flow 3 (95th percentile 110.46 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2019-01-17 12:26:57
End at: 2019-01-17 12:27:27
Local clock offset: -4.24 ms
Remote clock offset: 2.541 ms


# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 81.665 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 81.330 ms
Loss rate: 5.07%
-- Flow 2:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 81.789 ms
Loss rate: 3.76%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 81.162 ms
Loss rate: 4.10%
```
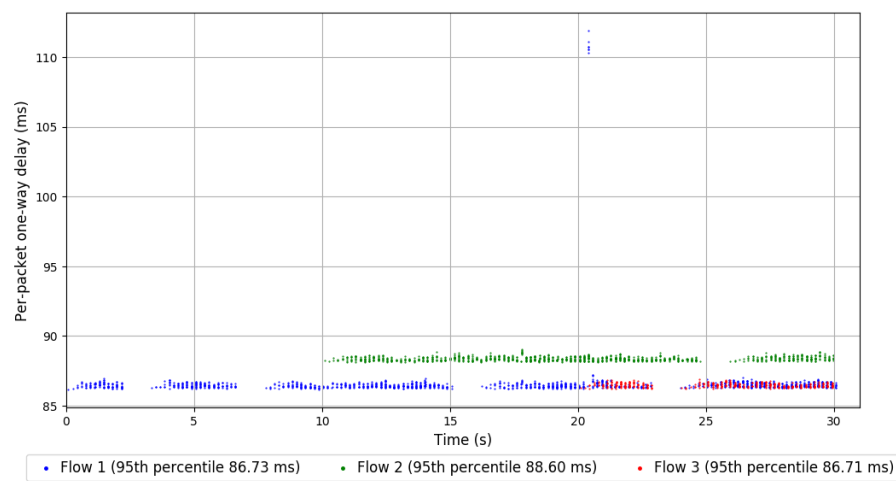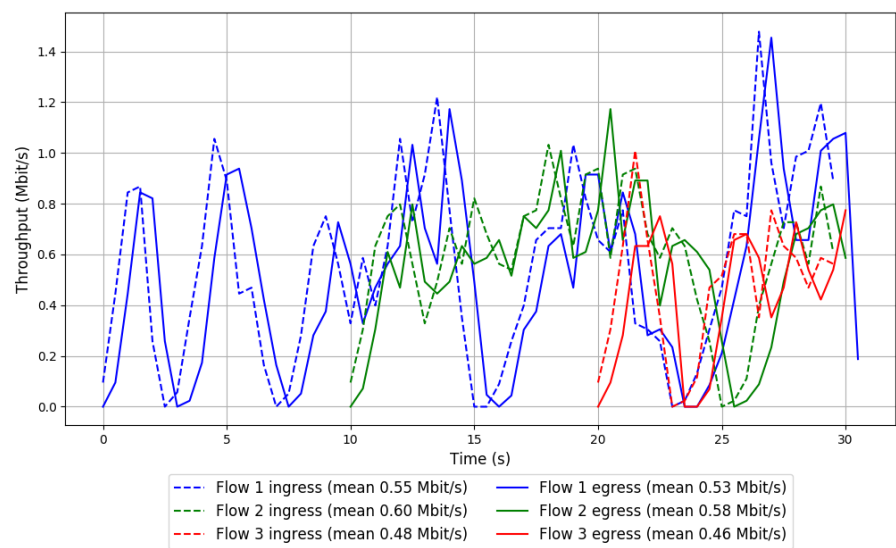
Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 0.51 Mbit/s)   Flow 1 egress (mean 0.49 Mbit/s)
Flow 2 ingress (mean 0.61 Mbit/s)   Flow 2 egress (mean 0.59 Mbit/s)
Flow 3 ingress (mean 0.70 Mbit/s)   Flow 3 egress (mean 0.67 Mbit/s)

Flow 1 (95th percentile 81.33 ms)   Flow 2 (95th percentile 81.79 ms)   Flow 3 (95th percentile 81.16 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2019-01-17 12:53:18
End at: 2019-01-17 12:53:48
Local clock offset: -5.009 ms
Remote clock offset: 6.207 ms

# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 84.538 ms
Loss rate: 4.54%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 84.388 ms
Loss rate: 4.66%
-- Flow 2:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 84.423 ms
Loss rate: 4.16%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 84.757 ms
Loss rate: 5.28%
```
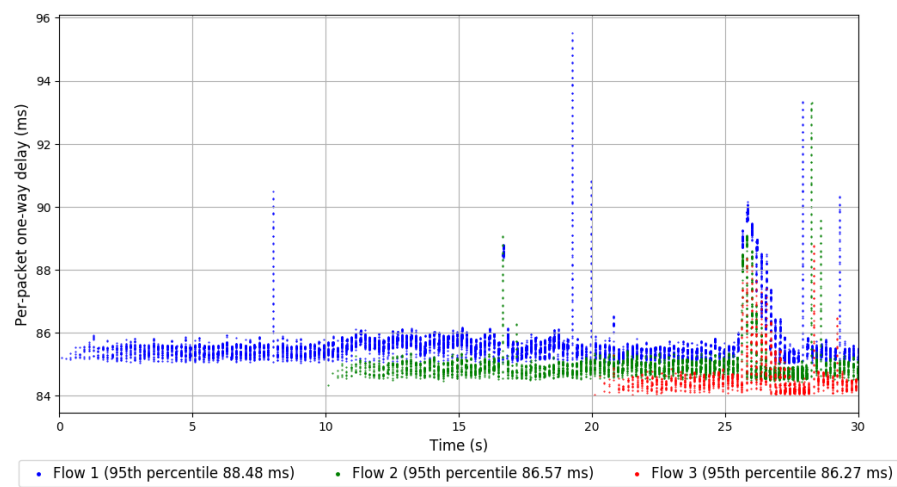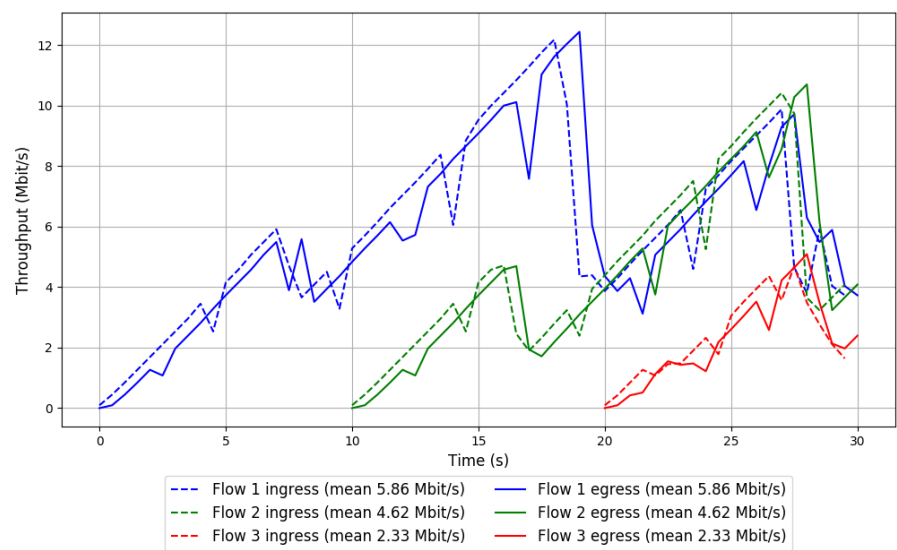
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2019-01-17 13:19:36
End at: 2019-01-17 13:20:06
Local clock offset: -5.246 ms
Remote clock offset: 6.836 ms


# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 88.530 ms
Loss rate: 3.84%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 86.734 ms
Loss rate: 3.33%
-- Flow 2:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 88.599 ms
Loss rate: 4.49%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 86.708 ms
Loss rate: 3.95%
```
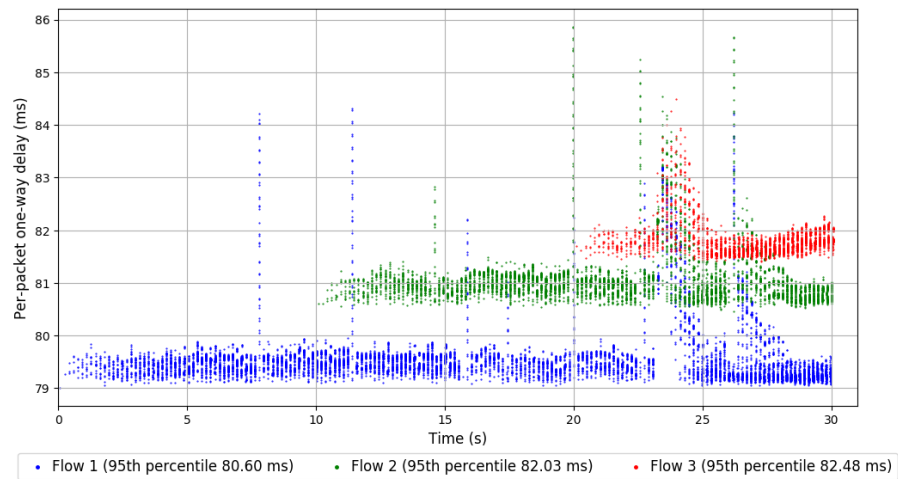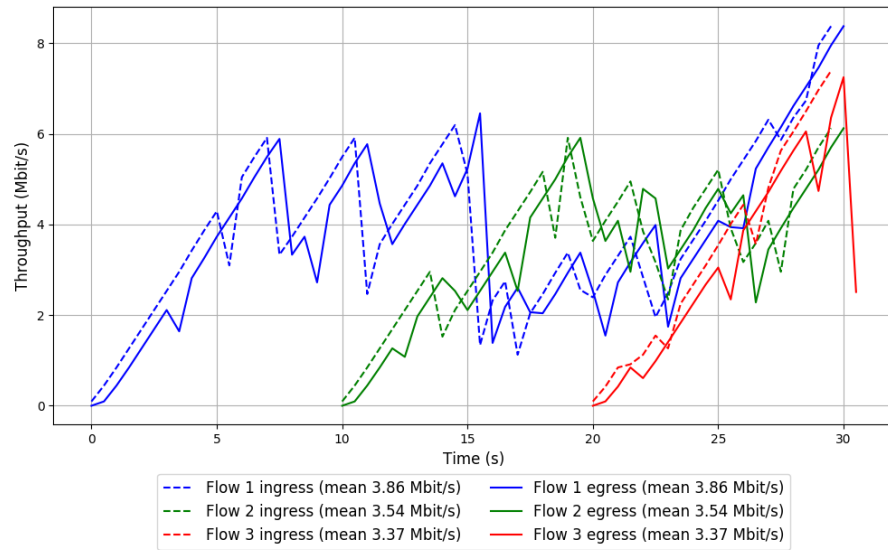
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2019-01-17 13:45:59
End at: 2019-01-17 13:46:29
Local clock offset: -4.225 ms
Remote clock offset: 6.112 ms


# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 87.658 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 88.476 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 86.271 ms
Loss rate: 0.15%
```
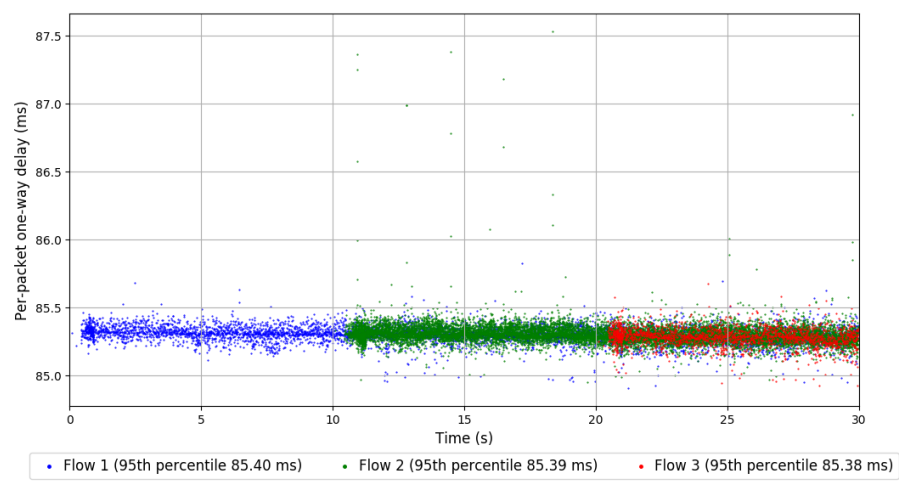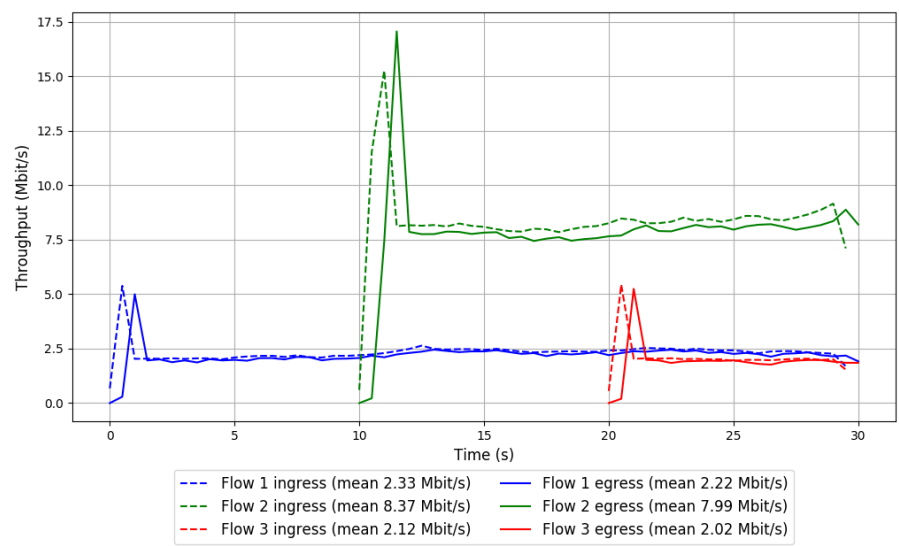
Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 5.86 Mbit/s) —— Flow 1 egress (mean 5.86 Mbit/s)
Flow 2 ingress (mean 4.62 Mbit/s) —— Flow 2 egress (mean 4.62 Mbit/s)
Flow 3 ingress (mean 2.33 Mbit/s) —— Flow 3 egress (mean 2.33 Mbit/s)

Flow 1 (95th percentile 88.48 ms)   Flow 2 (95th percentile 86.57 ms)   Flow 3 (95th percentile 86.27 ms)

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```
Run 5: Statistics of LEDBAT

Start at: 2019-01-17 14:12:43
End at: 2019-01-17 14:13:13
Local clock offset: -3.393 ms
Remote clock offset: 0.996 ms

# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 82.004 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 80.597 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 3.54 Mbit/s
95th percentile per-packet one-way delay: 82.029 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 82.481 ms
Loss rate: 0.03%
```
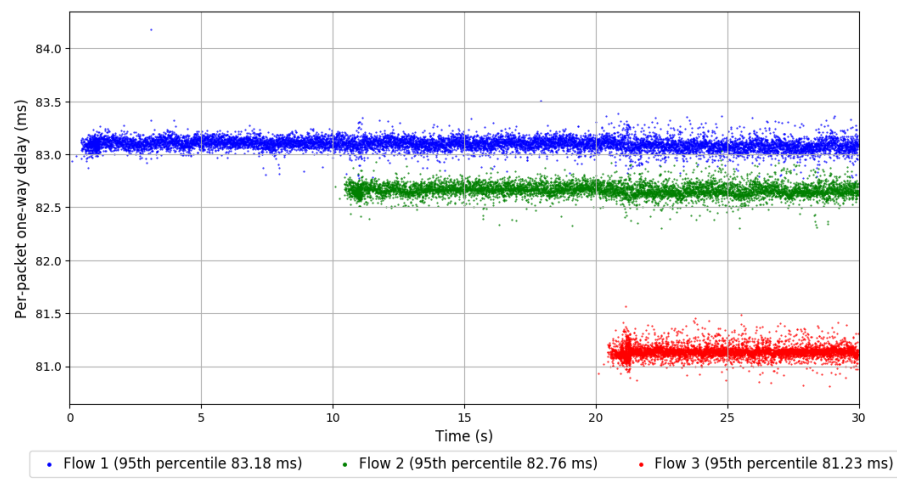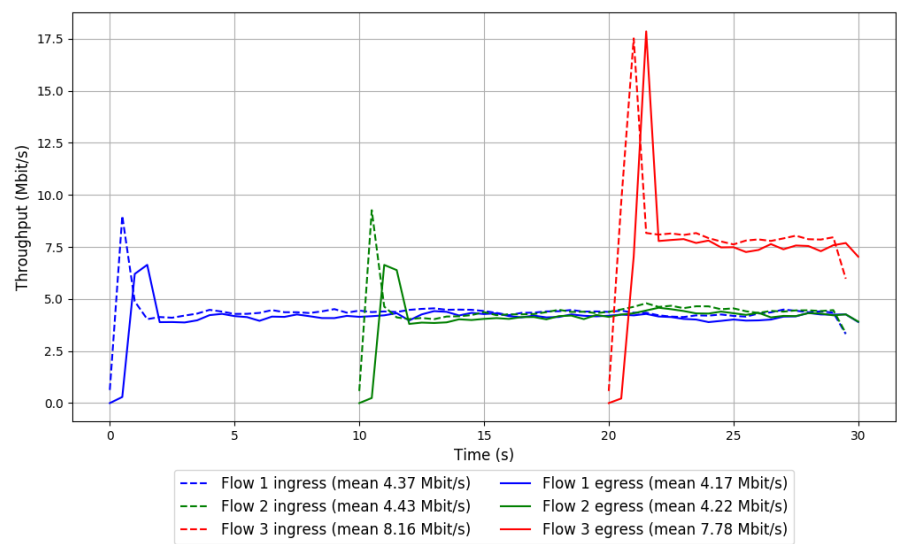
Run 5: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-17 12:19:25
End at: 2019-01-17 12:19:55
Local clock offset: -2.694 ms
Remote clock offset: 7.346 ms


# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 85.391 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 85.396 ms
Loss rate: 4.60%
-- Flow 2:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 85.389 ms
Loss rate: 4.59%
-- Flow 3:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 85.383 ms
Loss rate: 4.66%
```
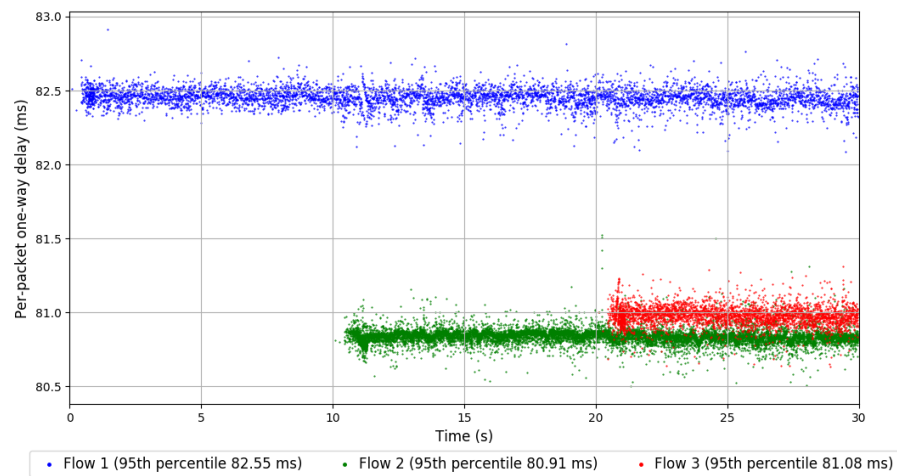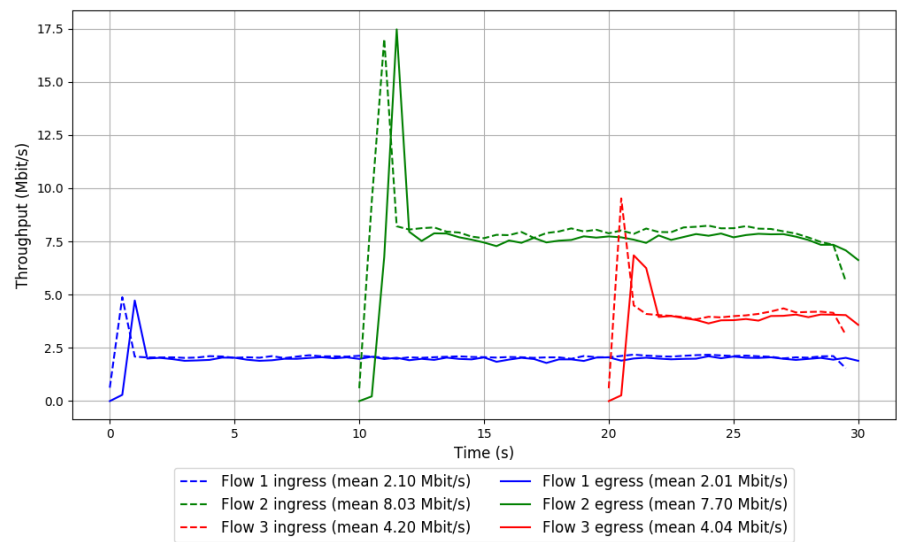
Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-01-17 12:45:45
End at: 2019-01-17 12:46:15
Local clock offset: -4.844 ms
Remote clock offset: 3.653 ms


# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 83.158 ms
Loss rate: 4.55%
-- Flow 1:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 83.183 ms
Loss rate: 4.52%
-- Flow 2:
Average throughput: 4.22 Mbit/s
95th percentile per-packet one-way delay: 82.756 ms
Loss rate: 4.57%
-- Flow 3:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 81.231 ms
Loss rate: 4.59%
```
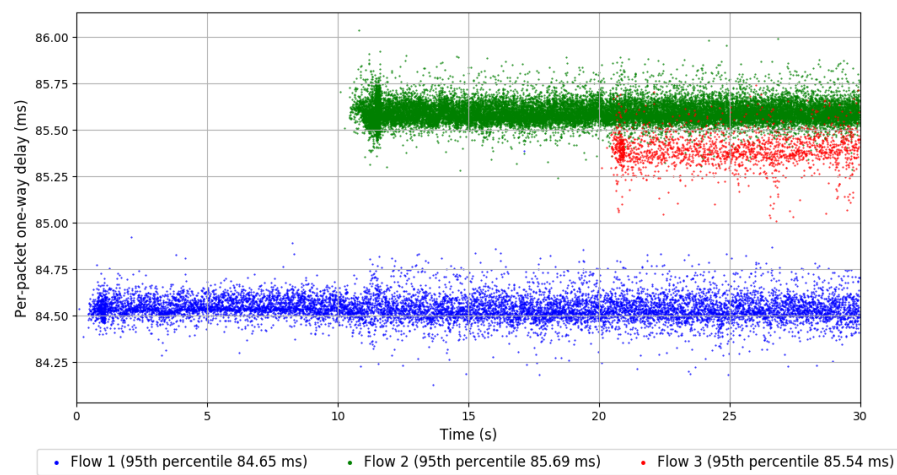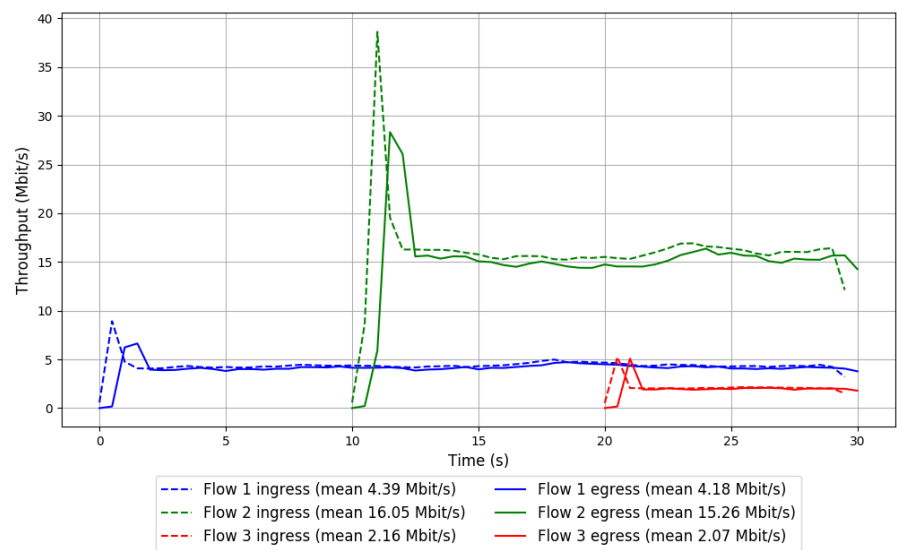
Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 4.37 Mbit/s)
Flow 1 egress (mean 4.17 Mbit/s)
Flow 2 ingress (mean 4.43 Mbit/s)
Flow 2 egress (mean 4.22 Mbit/s)
Flow 3 ingress (mean 8.16 Mbit/s)
Flow 3 egress (mean 7.78 Mbit/s)

Flow 1 (95th percentile 83.18 ms)
Flow 2 (95th percentile 82.76 ms)
Flow 3 (95th percentile 81.23 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-01-17 13:12:04
End at: 2019-01-17 13:12:34
Local clock offset: -5.349 ms
Remote clock offset: 3.268 ms


# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 82.499 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 82.549 ms
Loss rate: 4.35%
-- Flow 2:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 80.906 ms
Loss rate: 4.05%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 81.079 ms
Loss rate: 3.95%
```
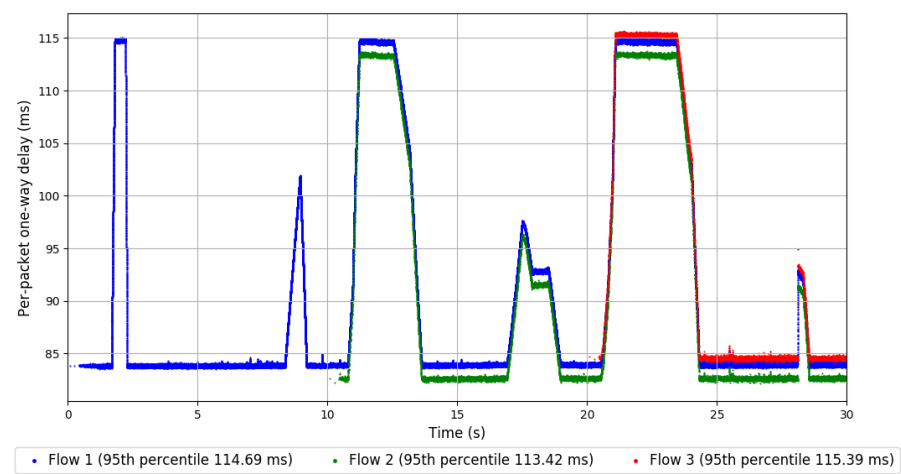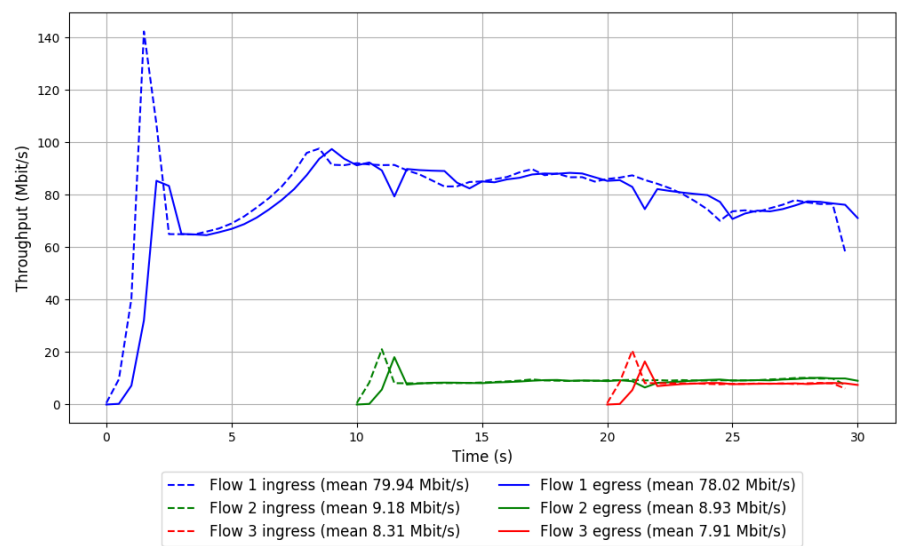
Run 3: Report of PCC-Allegro — Data Link

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-01-17 13:38:24
End at: 2019-01-17 13:38:54
Local clock offset: -4.206 ms
Remote clock offset: 5.1 ms


# Below is generated by plot.py at 2019-01-17 14:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.01 Mbit/s
95th percentile per-packet one-way delay: 85.669 ms
Loss rate: 4.78%
-- Flow 1:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 84.649 ms
Loss rate: 4.60%
-- Flow 2:
Average throughput: 15.26 Mbit/s
95th percentile per-packet one-way delay: 85.686 ms
Loss rate: 4.91%
-- Flow 3:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 85.540 ms
Loss rate: 4.06%
```
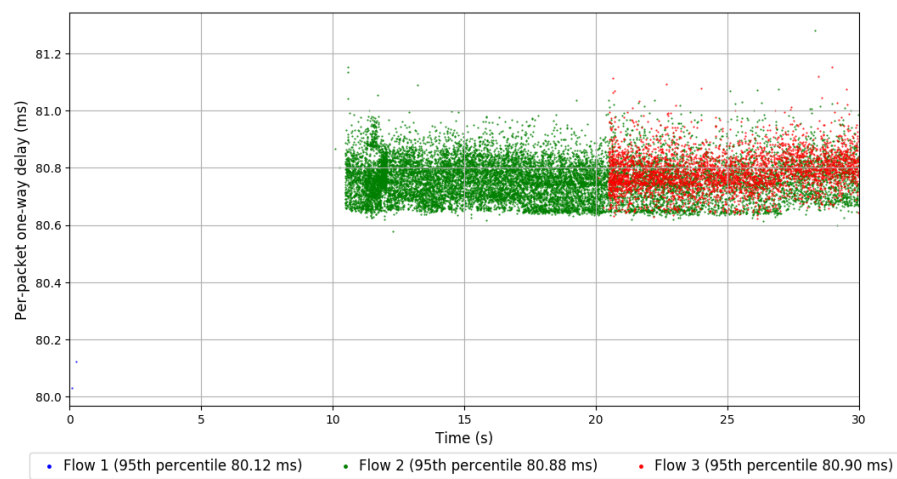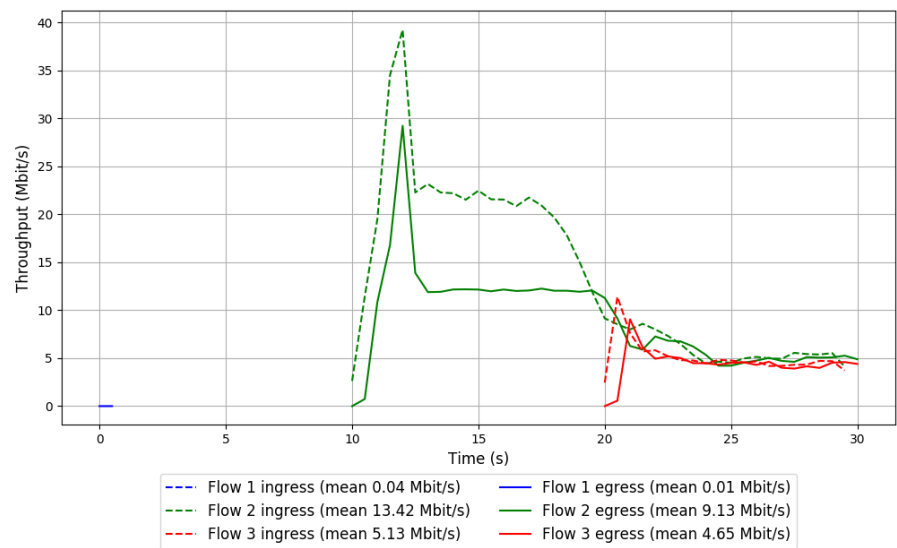
Run 4: Report of PCC-Allegro — Data Link

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-01-17 14:04:53
End at: 2019-01-17 14:05:23
Local clock offset: -4.273 ms
Remote clock offset: 2.14 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.56 Mbit/s
95th percentile per-packet one-way delay: 114.695 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 78.02 Mbit/s
95th percentile per-packet one-way delay: 114.687 ms
Loss rate: 2.40%
-- Flow 2:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 113.423 ms
Loss rate: 2.72%
-- Flow 3:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 115.393 ms
Loss rate: 4.85%
```
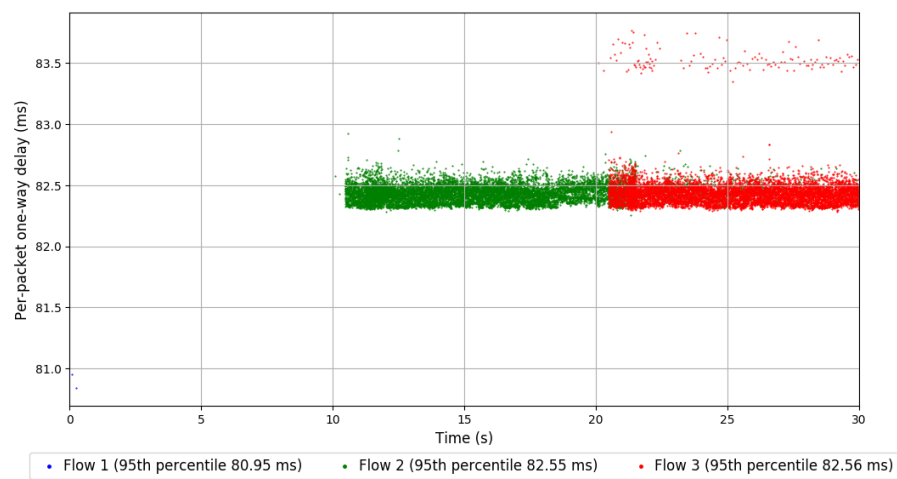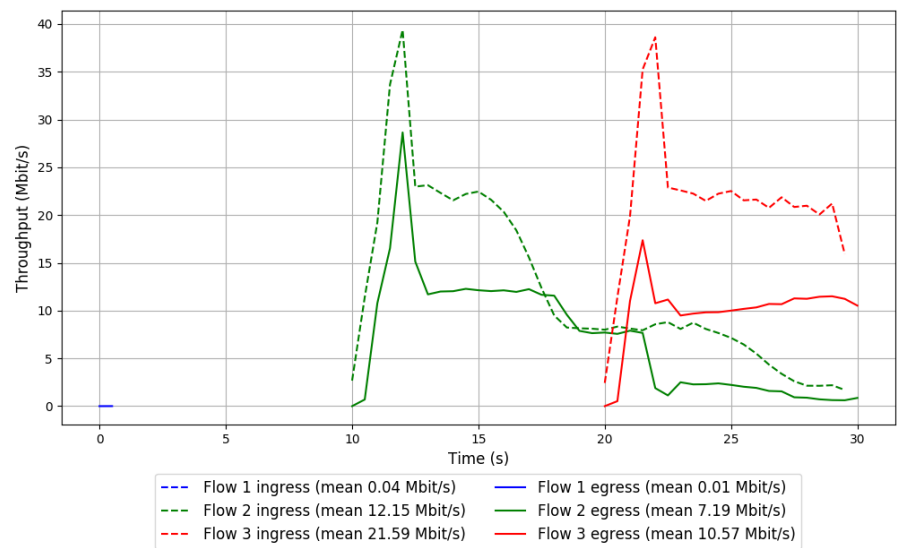
Run 5: Report of PCC-Allegro — Data Link

- - - Flow 1 ingress (mean 79.94 Mbit/s)   —— Flow 1 egress (mean 78.02 Mbit/s)
- - - Flow 2 ingress (mean 9.18 Mbit/s)   —— Flow 2 egress (mean 8.93 Mbit/s)
- - - Flow 3 ingress (mean 8.31 Mbit/s)   —— Flow 3 egress (mean 7.91 Mbit/s)

- Flow 1 (95th percentile 114.69 ms)   • Flow 2 (95th percentile 113.42 ms)   • Flow 3 (95th percentile 115.39 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-17 12:23:07
End at: 2019-01-17 12:23:37
Local clock offset: -3.147 ms
Remote clock offset: 2.751 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 80.884 ms
Loss rate: 28.36%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 80.121 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 80.881 ms
Loss rate: 31.97%
-- Flow 3:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 80.898 ms
Loss rate: 9.29%
```
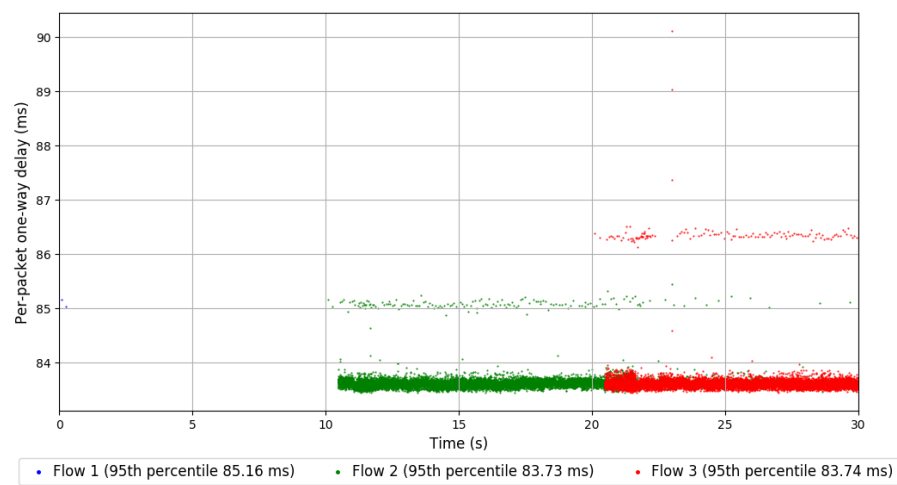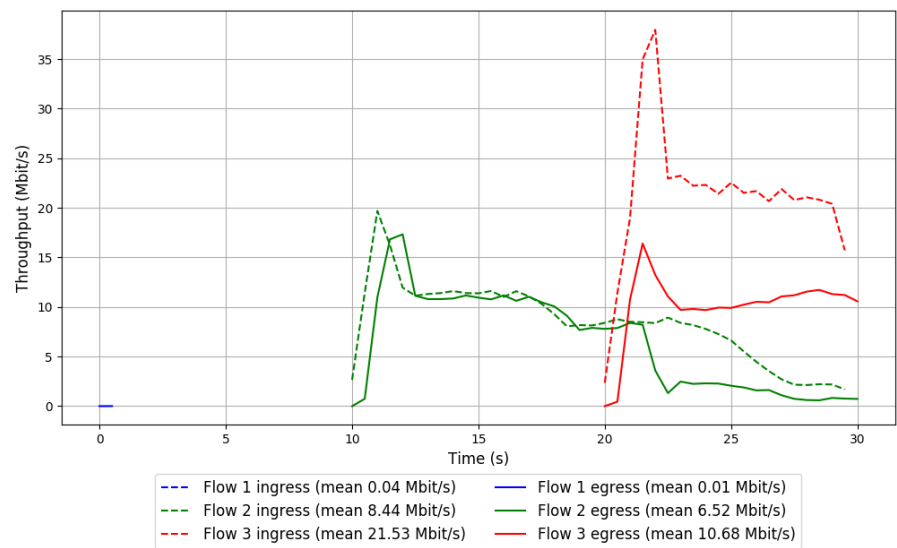
Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2019-01-17 12:49:25
End at: 2019-01-17 12:49:55
Local clock offset: -4.923 ms
Remote clock offset: 3.411 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 82.555 ms
Loss rate: 45.62%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 80.951 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 82.551 ms
Loss rate: 40.84%
-- Flow 3:
Average throughput: 10.57 Mbit/s
95th percentile per-packet one-way delay: 82.562 ms
Loss rate: 51.03%
```
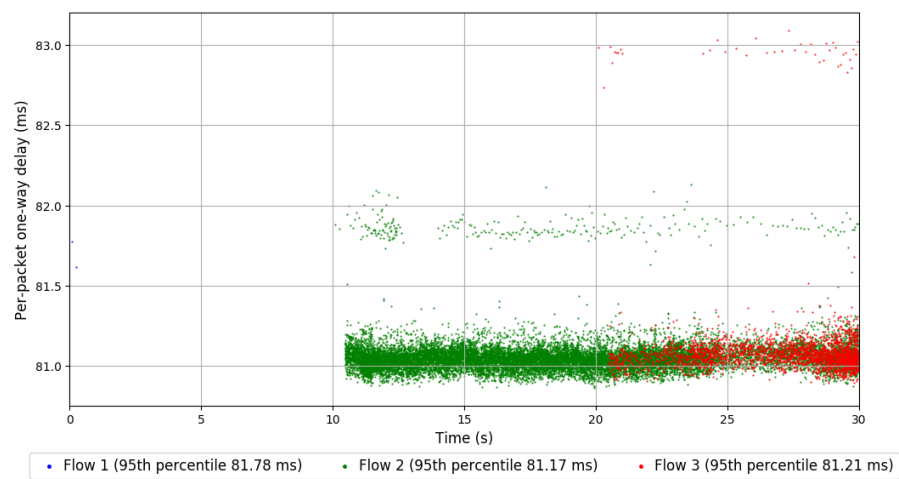
Run 2: Report of PCC-Expr — Data Link

```
Run 3: Statistics of PCC-Expr

Start at: 2019-01-17 13:15:45
End at: 2019-01-17 13:16:15
Local clock offset: -5.315 ms
Remote clock offset: 6.012 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 83.730 ms
Loss rate: 38.20%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 85.157 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 83.727 ms
Loss rate: 22.75%
-- Flow 3:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 83.736 ms
Loss rate: 50.40%
```
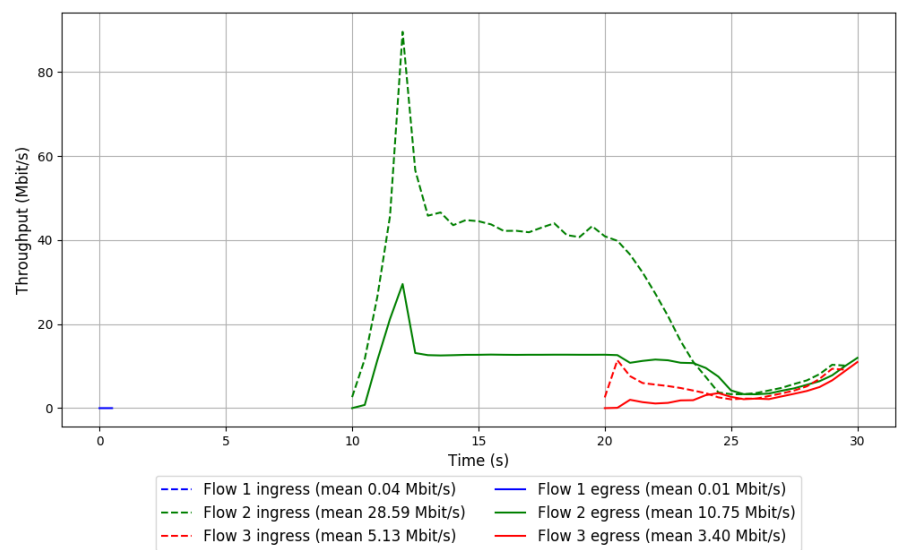
Run 3: Report of PCC-Expr — Data Link

```
Run 4: Statistics of PCC-Expr

Start at: 2019-01-17 13:42:06
End at: 2019-01-17 13:42:36
Local clock offset: -4.956 ms
Remote clock offset: 2.321 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 81.179 ms
Loss rate: 60.06%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 81.777 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.75 Mbit/s
95th percentile per-packet one-way delay: 81.171 ms
Loss rate: 62.41%
-- Flow 3:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 81.213 ms
Loss rate: 33.74%
```
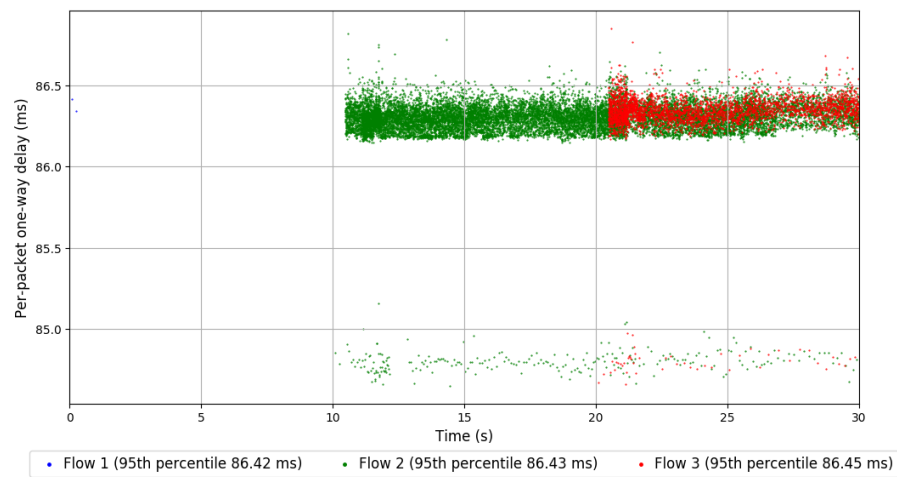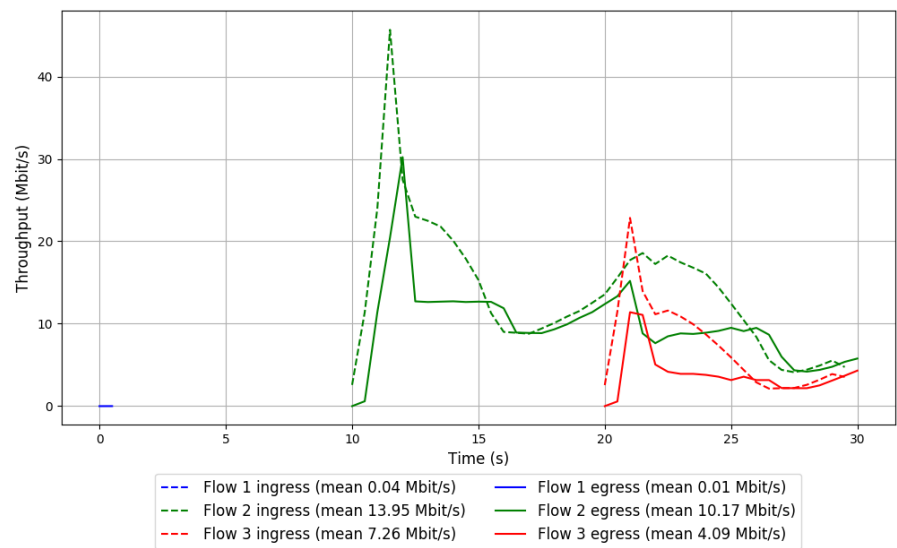
Run 4: Report of PCC-Expr — Data Link

```
Run 5: Statistics of PCC-Expr

Start at: 2019-01-17 14:08:43
End at: 2019-01-17 14:09:13
Local clock offset: -4.201 ms
Remote clock offset: 5.899 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 86.433 ms
Loss rate: 30.52%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 86.418 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 86.426 ms
Loss rate: 27.11%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 86.455 ms
Loss rate: 43.73%
```
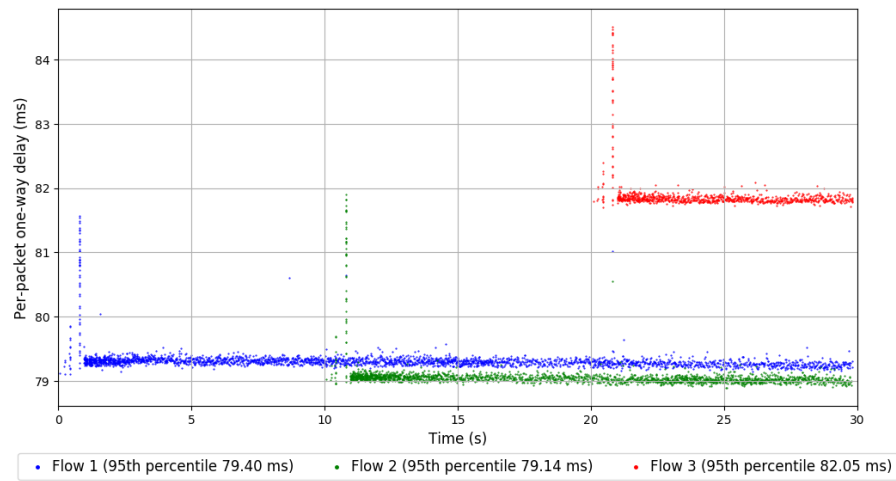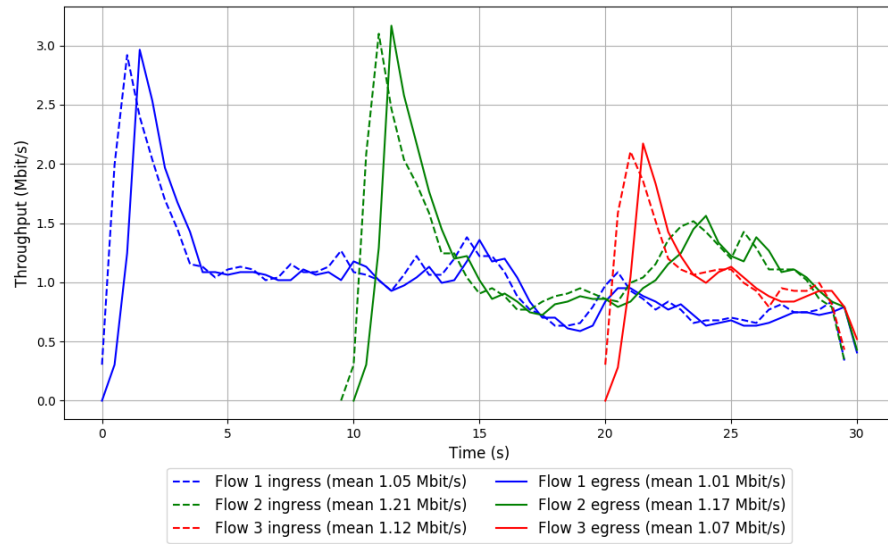
Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-01-17 12:16:59
End at: 2019-01-17 12:17:29
Local clock offset: -2.412 ms
Remote clock offset: 2.835 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 81.859 ms
Loss rate: 3.91%
-- Flow 1:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 79.399 ms
Loss rate: 3.85%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 79.144 ms
Loss rate: 3.78%
-- Flow 3:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 82.049 ms
Loss rate: 4.36%
```
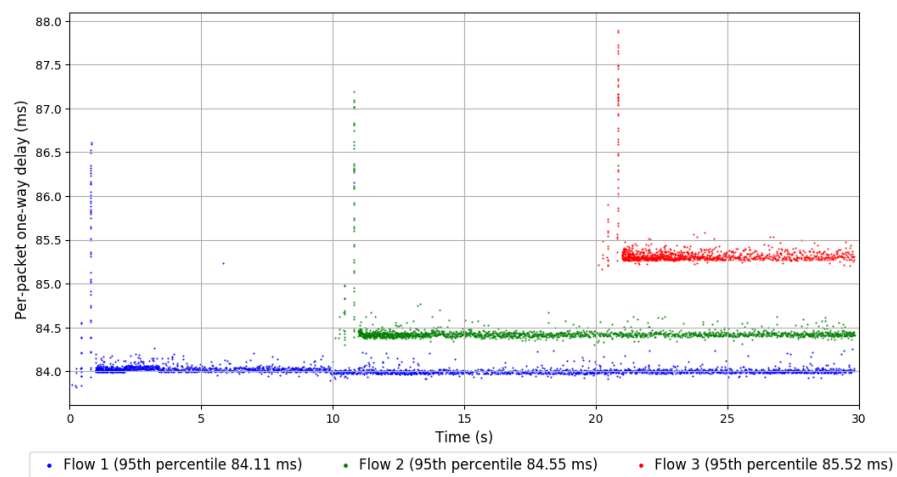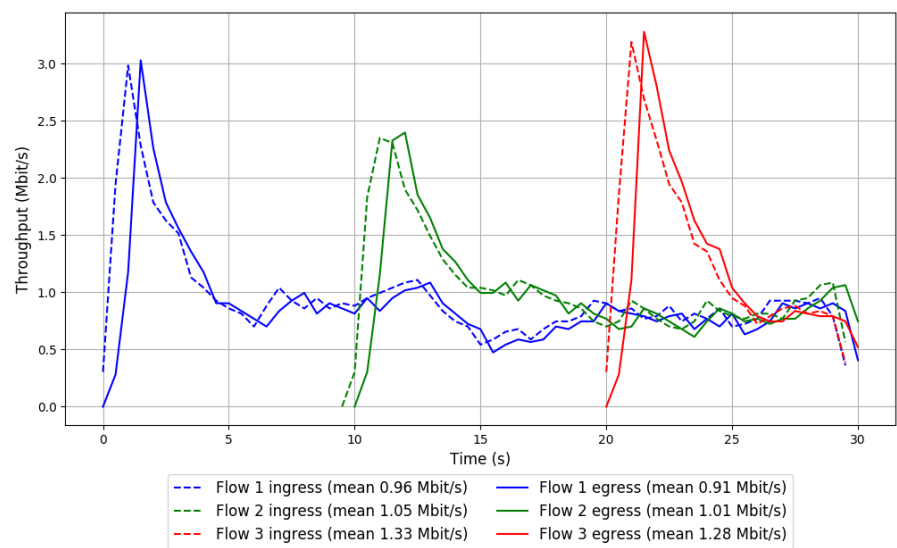
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-01-17 12:43:19
End at: 2019-01-17 12:43:49
Local clock offset: -4.042 ms
Remote clock offset: 7.18 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 85.364 ms
Loss rate: 4.57%
-- Flow 1:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 84.114 ms
Loss rate: 5.09%
-- Flow 2:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 84.548 ms
Loss rate: 4.15%
-- Flow 3:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 85.516 ms
Loss rate: 4.10%
```
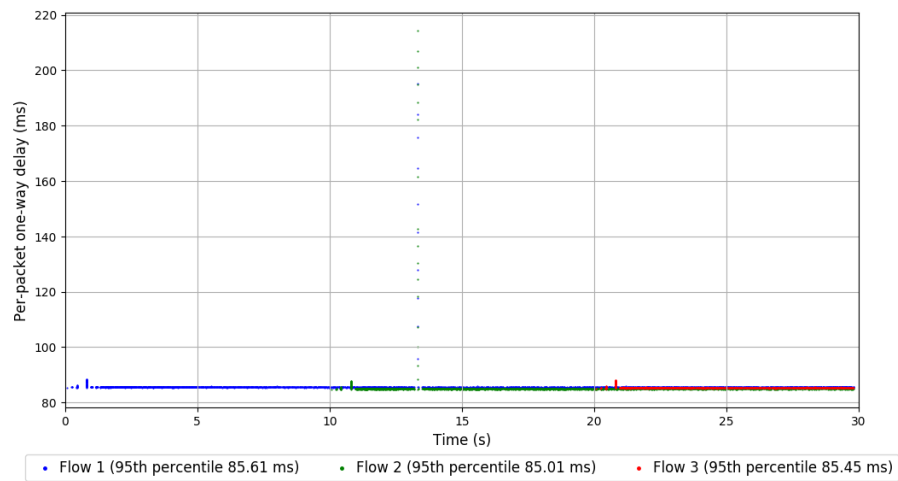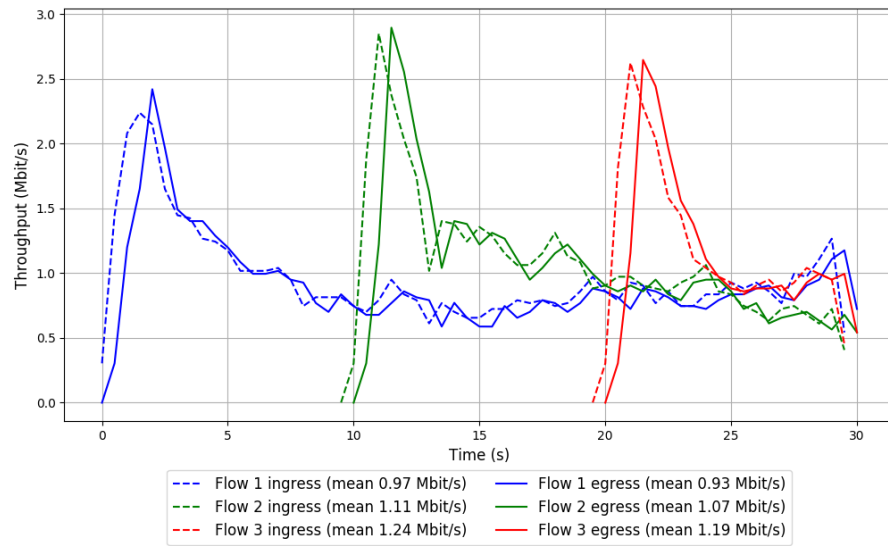
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-01-17 13:09:39
End at: 2019-01-17 13:10:09
Local clock offset: -4.488 ms
Remote clock offset: 7.202 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 85.586 ms
Loss rate: 4.04%
-- Flow 1:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 85.609 ms
Loss rate: 4.36%
-- Flow 2:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 85.014 ms
Loss rate: 3.76%
-- Flow 3:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 85.446 ms
Loss rate: 3.76%
```
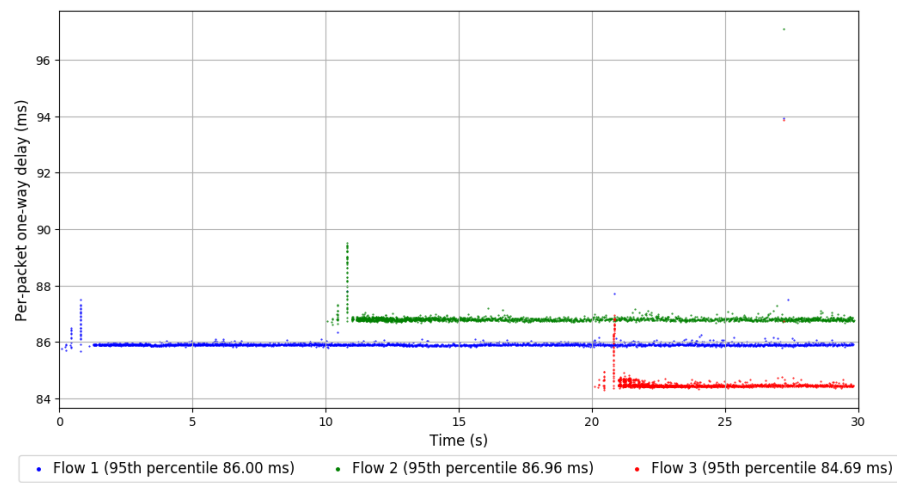
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-01-17 13:35:59
End at: 2019-01-17 13:36:29
Local clock offset: -4.215 ms
Remote clock offset: 6.198 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 86.861 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 85.997 ms
Loss rate: 4.27%
-- Flow 2:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 86.957 ms
Loss rate: 3.91%
-- Flow 3:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 84.689 ms
Loss rate: 4.19%
```
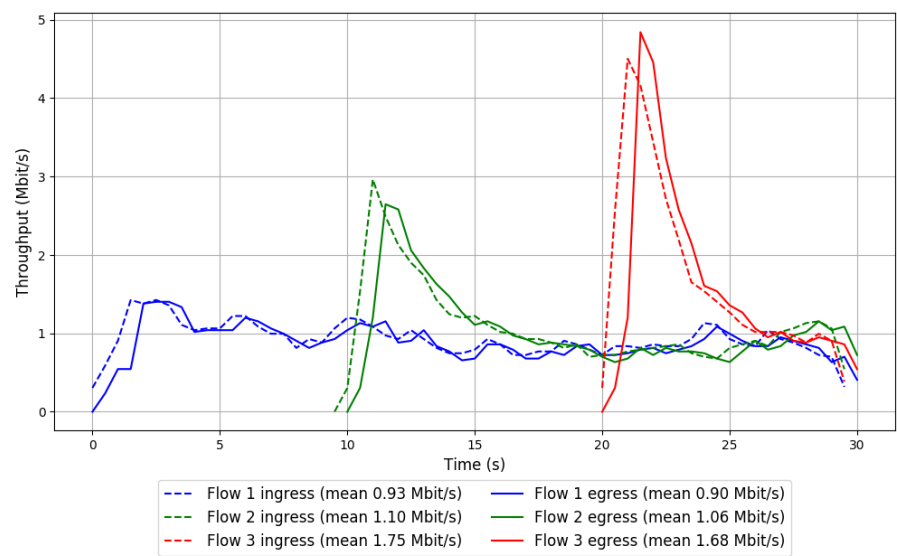
Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-01-17 14:02:24
End at: 2019-01-17 14:02:54
Local clock offset: -4.367 ms
Remote clock offset: 4.641 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 88.576 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 17.40 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 84.549 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 105.852 ms
Loss rate: 2.59%
```
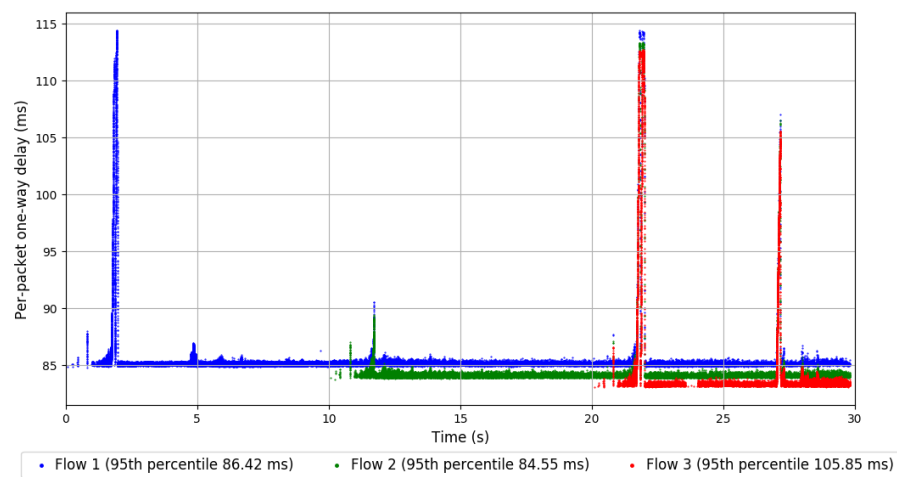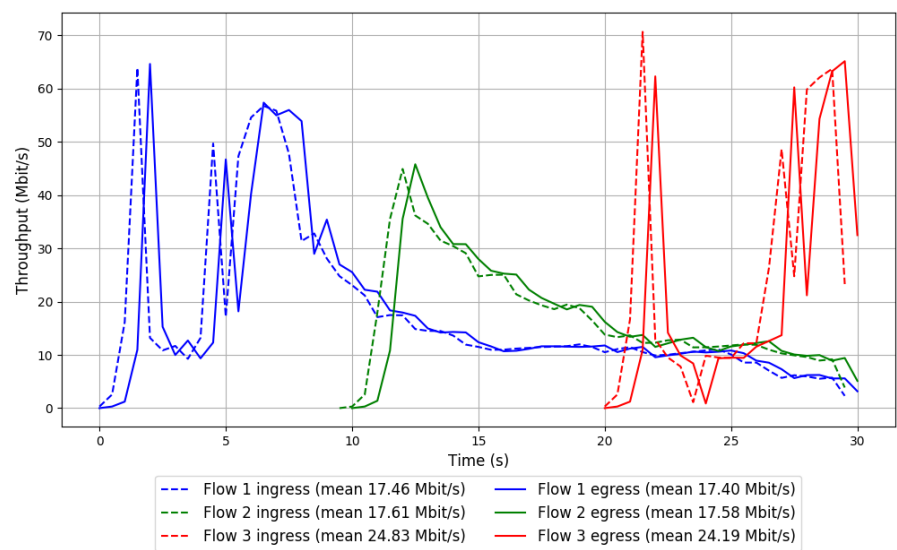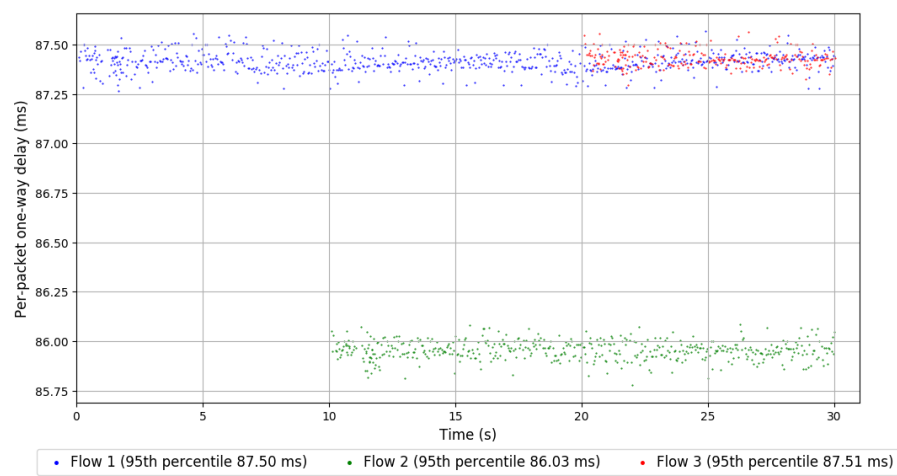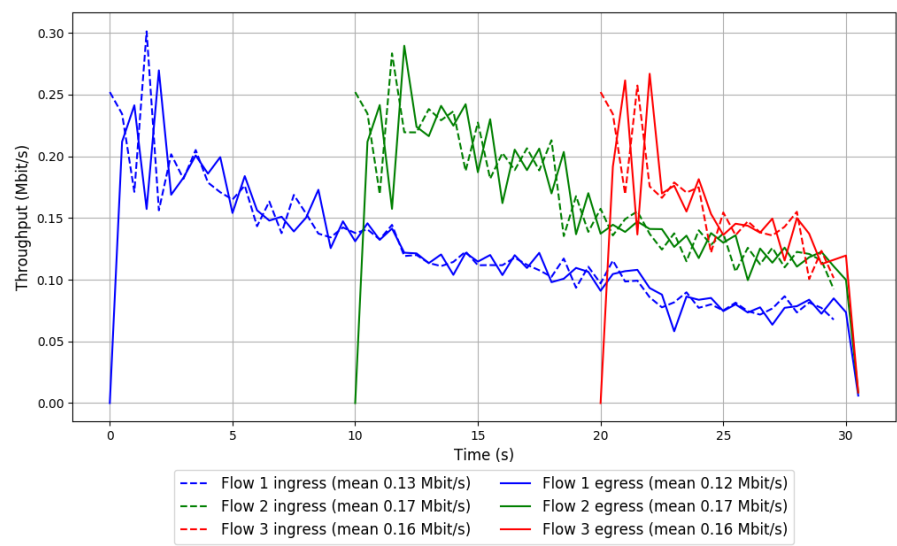
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 17.46 Mbit/s) — — — Flow 1 egress (mean 17.40 Mbit/s)
Flow 2 ingress (mean 17.61 Mbit/s) — — — Flow 2 egress (mean 17.58 Mbit/s)
Flow 3 ingress (mean 24.83 Mbit/s) — — — Flow 3 egress (mean 24.19 Mbit/s)

Flow 1 (95th percentile 86.42 ms) • Flow 2 (95th percentile 84.55 ms) • Flow 3 (95th percentile 105.85 ms)

```
Run 1: Statistics of SCReAM

Start at: 2019-01-17 12:10:41
End at: 2019-01-17 12:11:11
Local clock offset: -3.22 ms
Remote clock offset: 9.022 ms

# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 87.495 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 87.500 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 86.032 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 87.507 ms
Loss rate: 2.20%
```
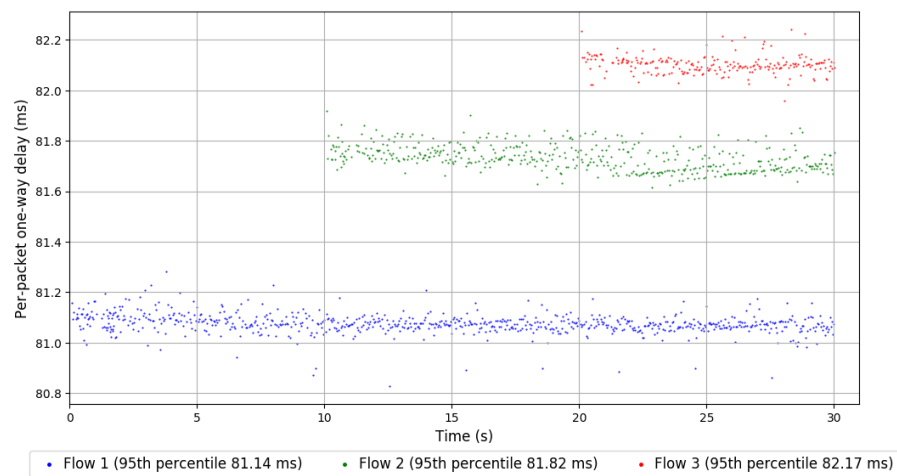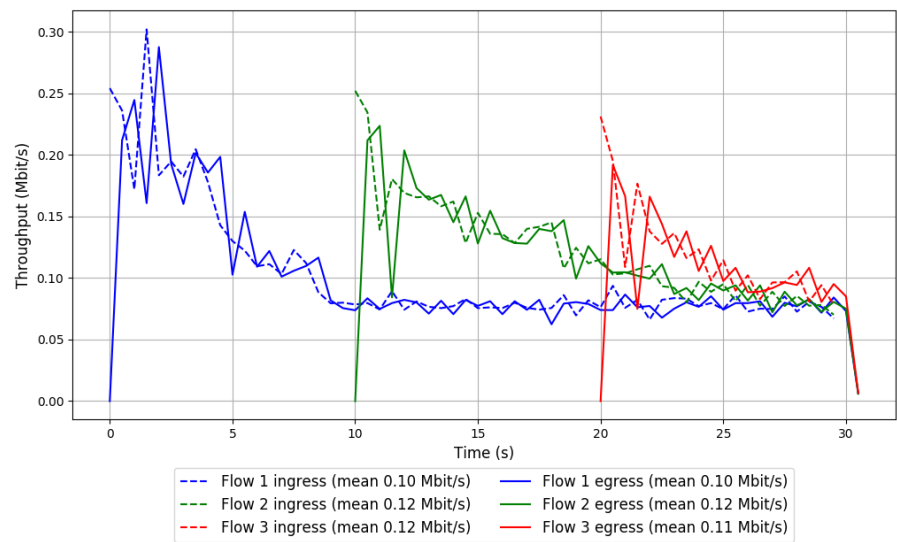
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2019-01-17 12:37:00
End at: 2019-01-17 12:37:30
Local clock offset: -3.948 ms
Remote clock offset: 3.584 ms

# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.114 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 81.141 ms
Loss rate: 2.16%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 81.822 ms
Loss rate: 2.64%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 82.165 ms
Loss rate: 5.04%
```
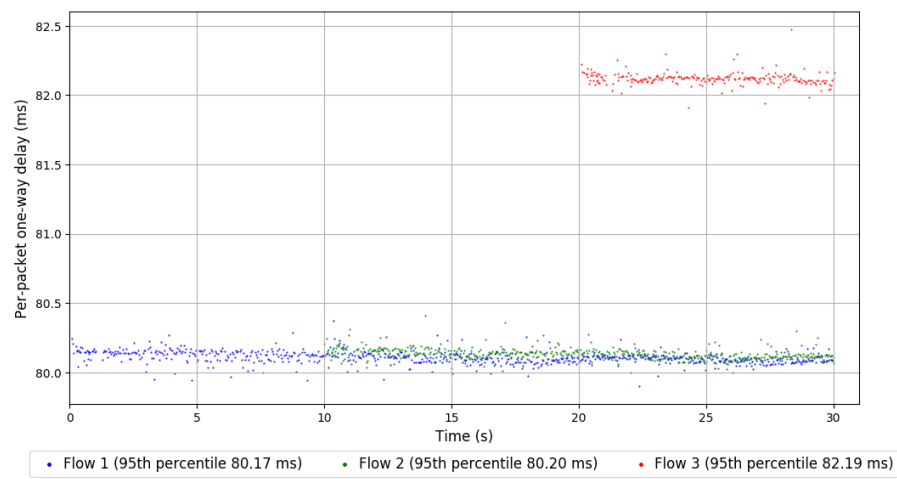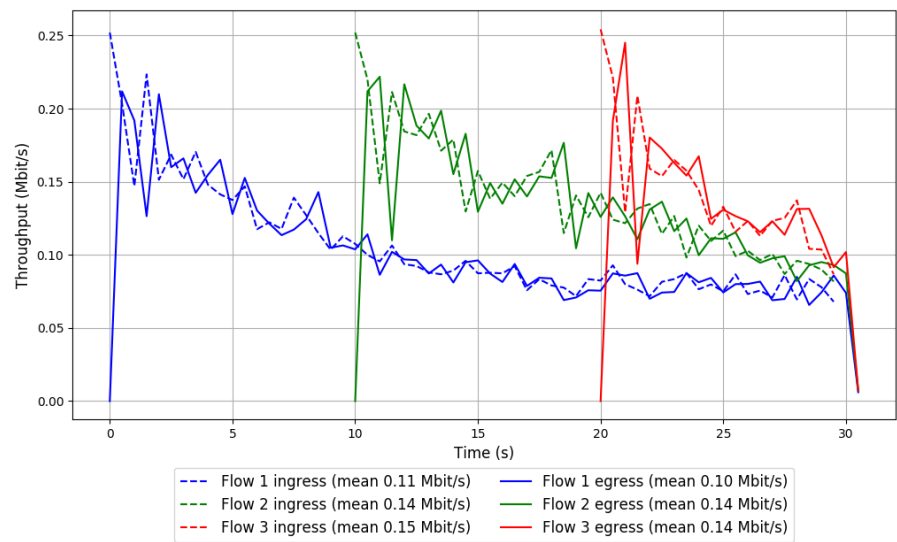
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2019-01-17 13:03:21
End at: 2019-01-17 13:03:51
Local clock offset: -4.399 ms
Remote clock offset: 3.476 ms

# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 82.131 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 80.175 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 80.202 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 82.186 ms
Loss rate: 2.63%
```
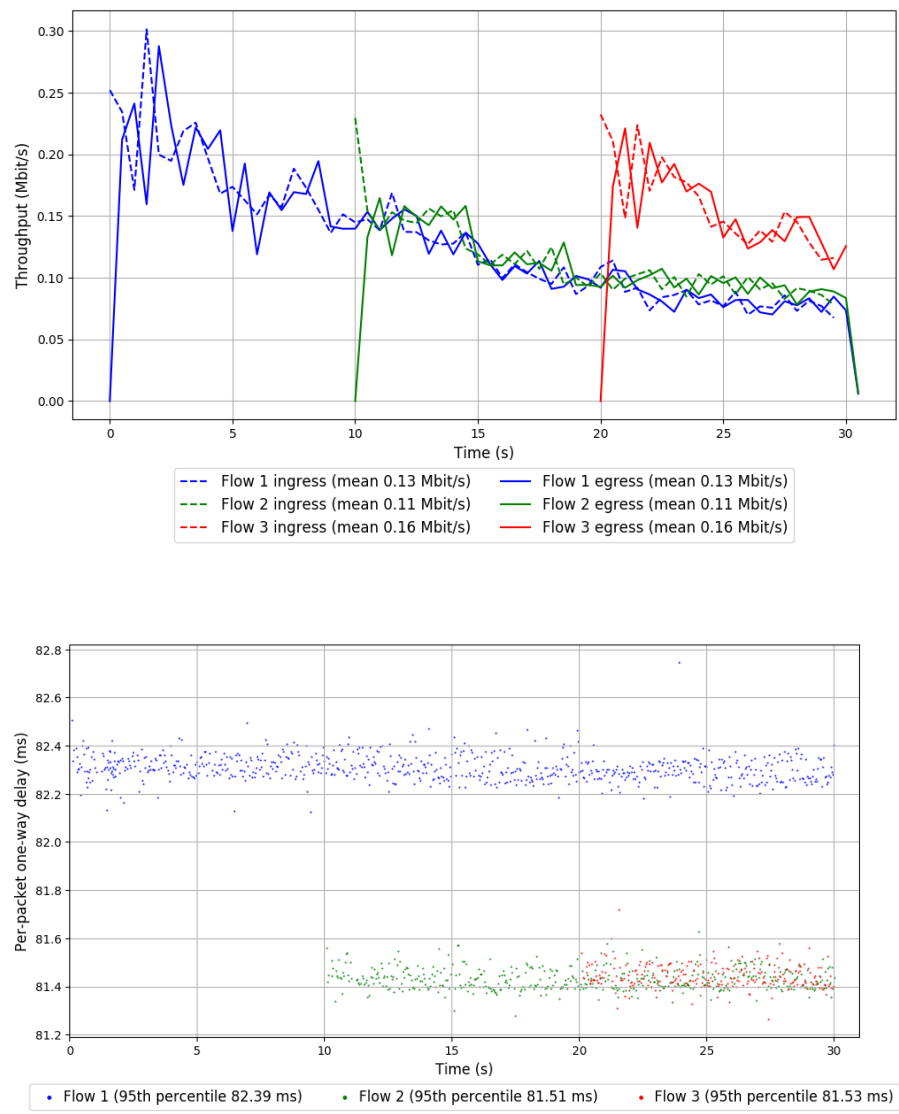
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2019-01-17 13:29:42
End at: 2019-01-17 13:30:12
Local clock offset: -5.022 ms
Remote clock offset: 1.484 ms

# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 82.375 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 82.395 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 81.509 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 81.526 ms
Loss rate: 2.92%
```

Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-01-17 13:56:03
End at: 2019-01-17 13:56:33
Local clock offset: -4.48 ms
Remote clock offset: 0.839 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 81.205 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 79.757 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.694 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.250 ms
Loss rate: 0.00%
```
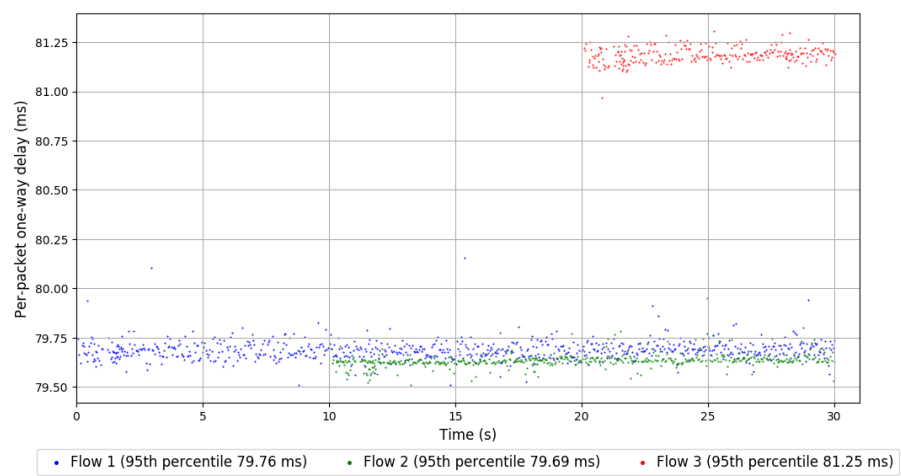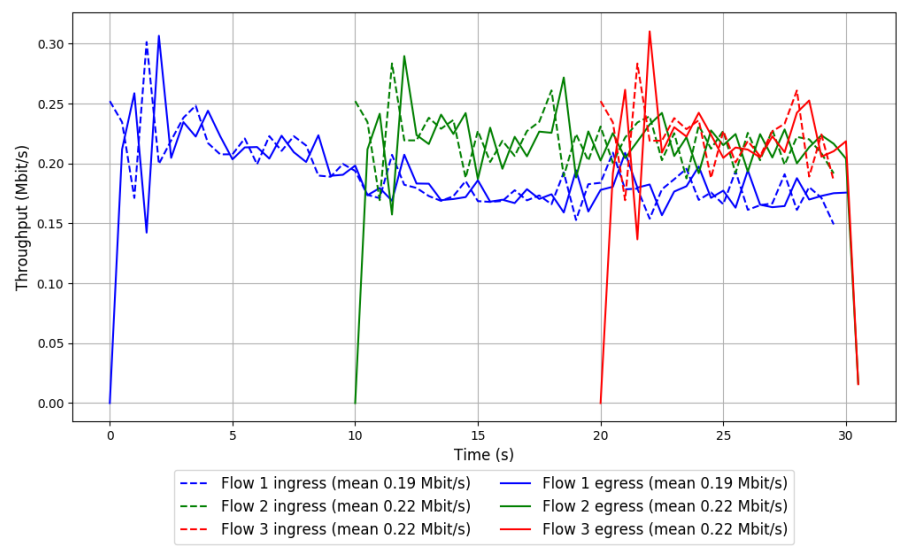
Run 5: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2019-01-17 12:08:15
End at: 2019-01-17 12:08:45
Local clock offset: -2.495 ms
Remote clock offset: 8.152 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 86.533 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 86.369 ms
Loss rate: 4.40%
-- Flow 2:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 86.819 ms
Loss rate: 2.92%
-- Flow 3:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 85.994 ms
Loss rate: 4.85%
```
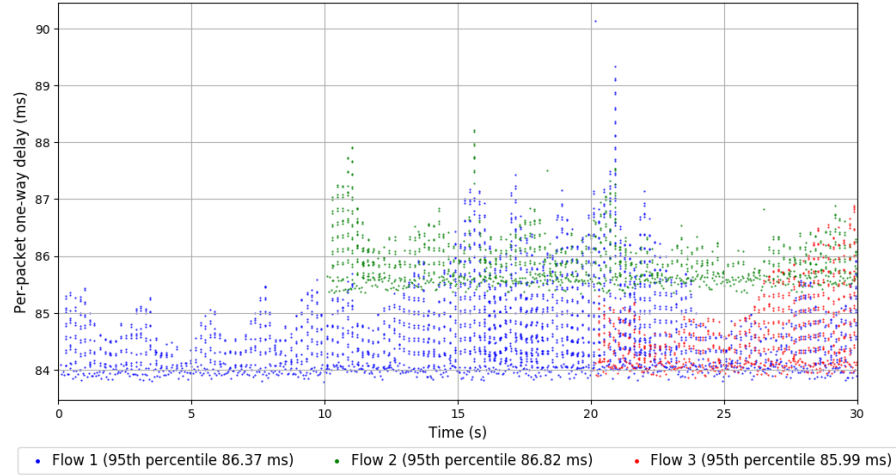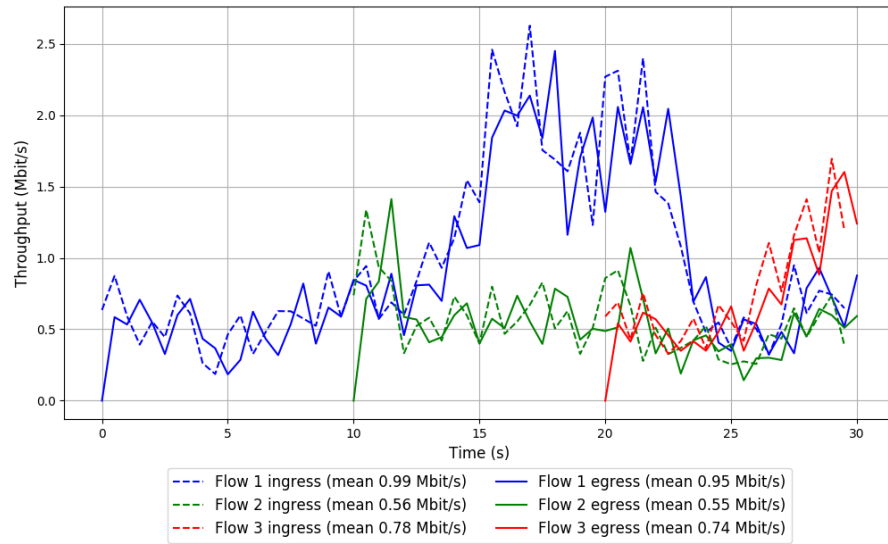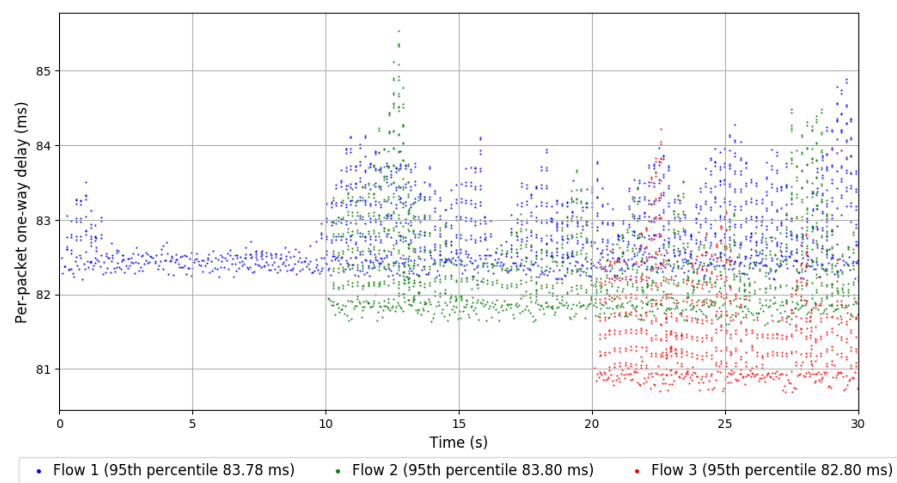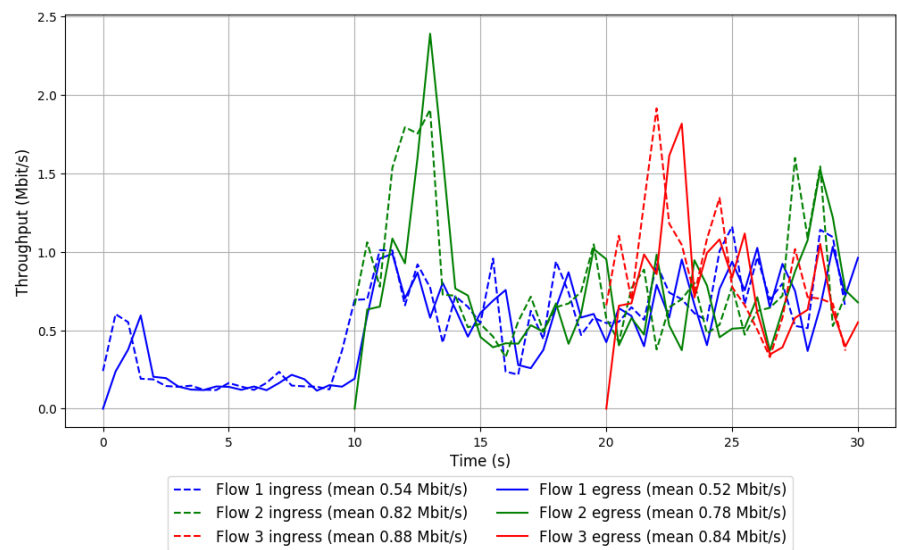
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2019-01-17 12:34:33
End at: 2019-01-17 12:35:03
Local clock offset: -4.572 ms
Remote clock offset: 3.665 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 83.727 ms
Loss rate: 4.62%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 83.780 ms
Loss rate: 4.61%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 83.803 ms
Loss rate: 4.43%
-- Flow 3:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 82.798 ms
Loss rate: 4.98%
```
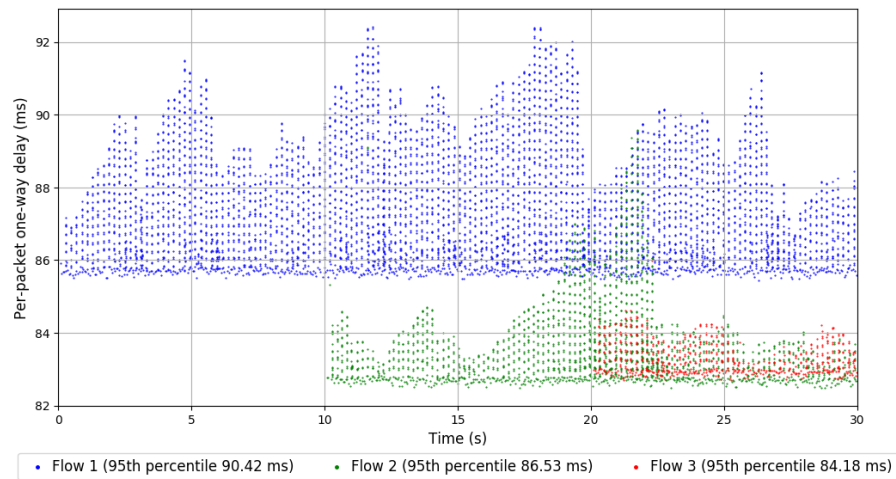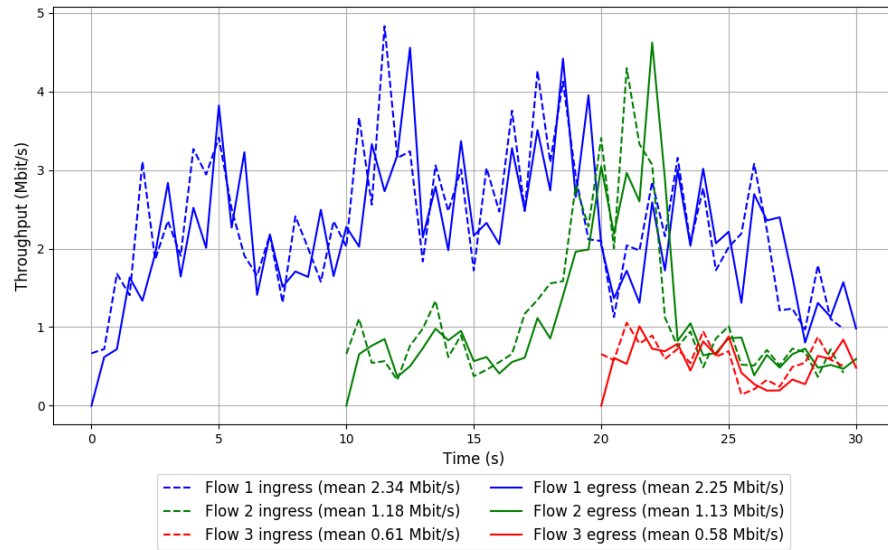
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2019-01-17 13:00:55
End at: 2019-01-17 13:01:25
Local clock offset: -4.419 ms
Remote clock offset: 6.163 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 90.043 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 90.424 ms
Loss rate: 3.88%
-- Flow 2:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 86.535 ms
Loss rate: 4.53%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 84.181 ms
Loss rate: 5.35%
```
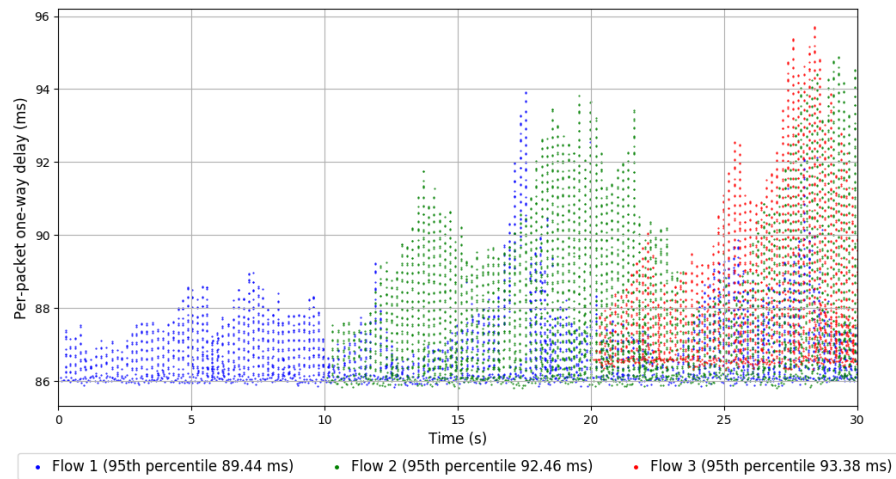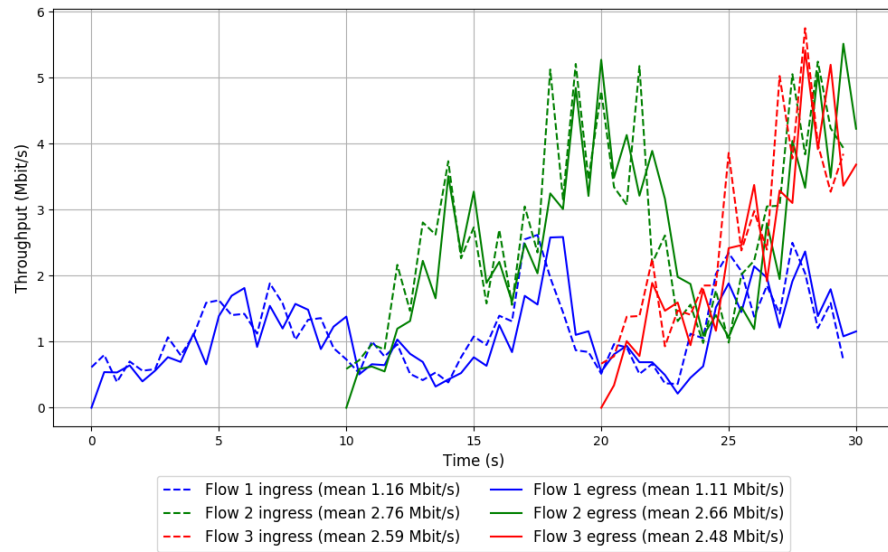
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2019-01-17 13:27:15
End at: 2019-01-17 13:27:45
Local clock offset: -5.108 ms
Remote clock offset: 6.212 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 92.256 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 89.439 ms
Loss rate: 4.23%
-- Flow 2:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 92.460 ms
Loss rate: 3.70%
-- Flow 3:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 93.376 ms
Loss rate: 4.15%
```
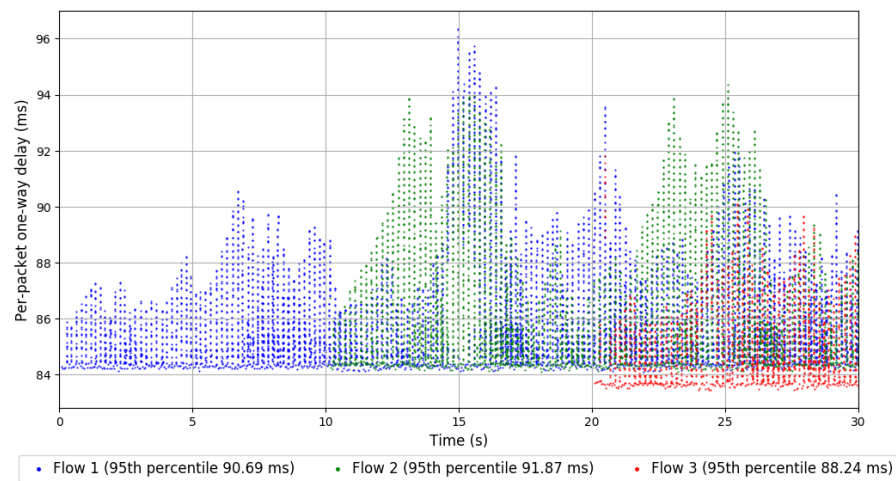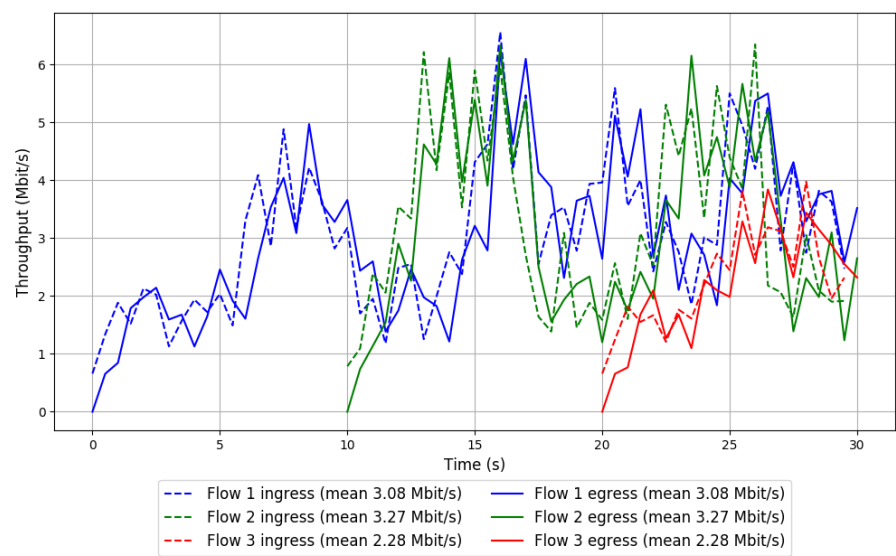
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-01-17 13:53:37
End at: 2019-01-17 13:54:07
Local clock offset: -3.812 ms
Remote clock offset: 4.856 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.01 Mbit/s
95th percentile per-packet one-way delay: 91.224 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 90.689 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 91.870 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 88.238 ms
Loss rate: 0.05%
```

Run 5: Report of Sprout — Data Link

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

Start at: 2019-01-17 12:09:28
End at: 2019-01-17 12:09:58
Local clock offset: -2.563 ms
Remote clock offset: 7.944 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 89.232 ms
Loss rate: 36.85%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 84.136 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 92.365 ms
Loss rate: 35.96%
-- Flow 3:
Average throughput: 5.75 Mbit/s
95th percentile per-packet one-way delay: 84.346 ms
Loss rate: 39.56%
```
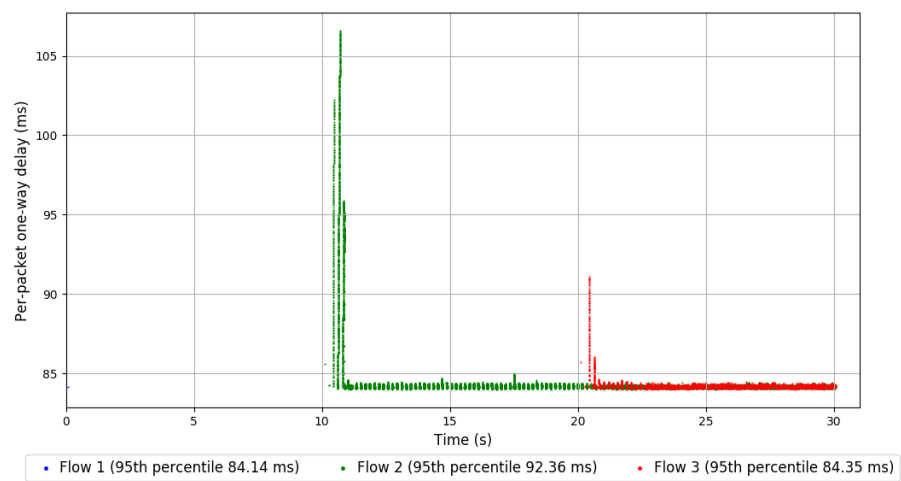
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 0.15 Mbit/s)
Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 14.39 Mbit/s)
Flow 2 egress (mean 9.22 Mbit/s)
Flow 3 ingress (mean 9.51 Mbit/s)
Flow 3 egress (mean 5.75 Mbit/s)

Flow 1 (95th percentile 84.14 ms)
Flow 2 (95th percentile 92.36 ms)
Flow 3 (95th percentile 84.35 ms)

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

Start at: 2019-01-17 12:35:45
End at: 2019-01-17 12:36:15
Local clock offset: -4.639 ms
Remote clock offset: 2.483 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 86.279 ms
Loss rate: 51.31%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 80.924 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 88.762 ms
Loss rate: 47.84%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 80.036 ms
Loss rate: 62.56%
```
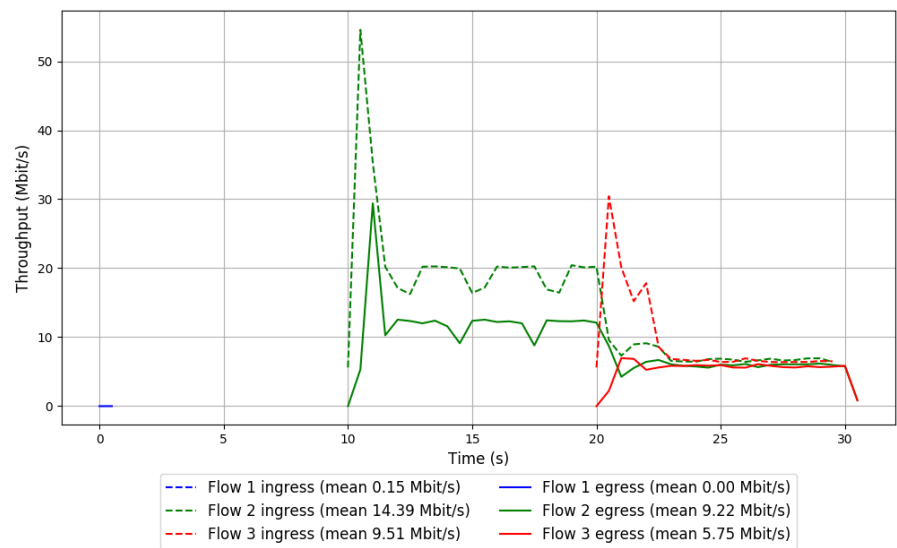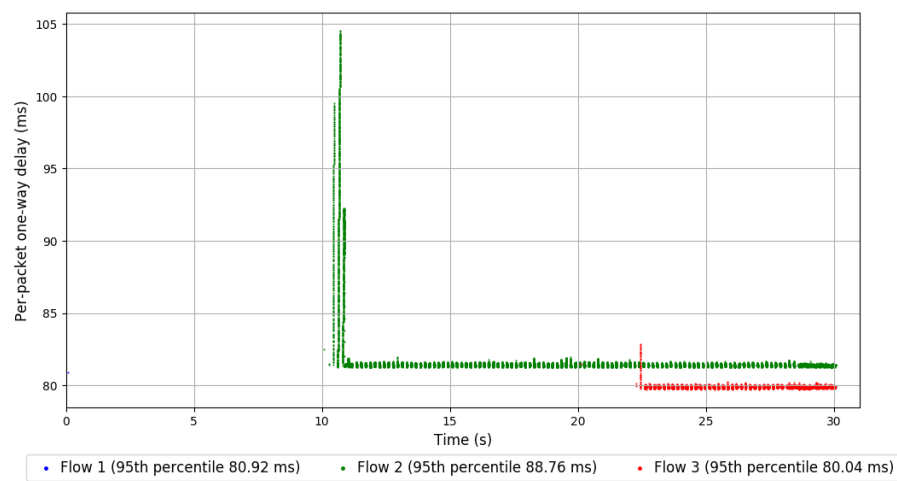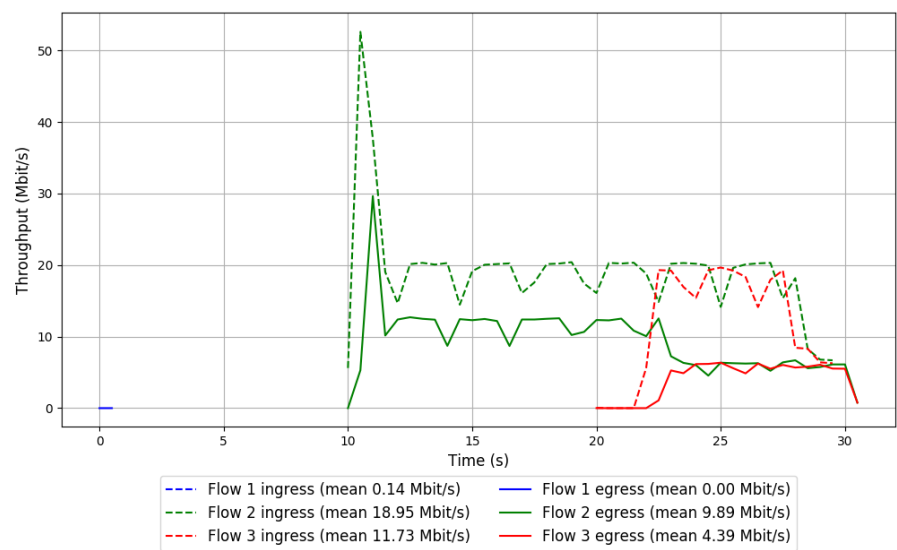
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 0.14 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 18.95 Mbit/s)   Flow 2 egress (mean 9.89 Mbit/s)
Flow 3 ingress (mean 11.73 Mbit/s)   Flow 3 egress (mean 4.39 Mbit/s)

Flow 1 (95th percentile 80.92 ms)   Flow 2 (95th percentile 88.76 ms)   Flow 3 (95th percentile 80.04 ms)

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

Start at: 2019-01-17 13:02:08
End at: 2019-01-17 13:02:38
Local clock offset: -4.389 ms
Remote clock offset: 7.096 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 90.764 ms
Loss rate: 31.07%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.307 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 94.169 ms
Loss rate: 35.12%
-- Flow 3:
Average throughput: 5.70 Mbit/s
95th percentile per-packet one-way delay: 84.042 ms
Loss rate: 13.38%
```
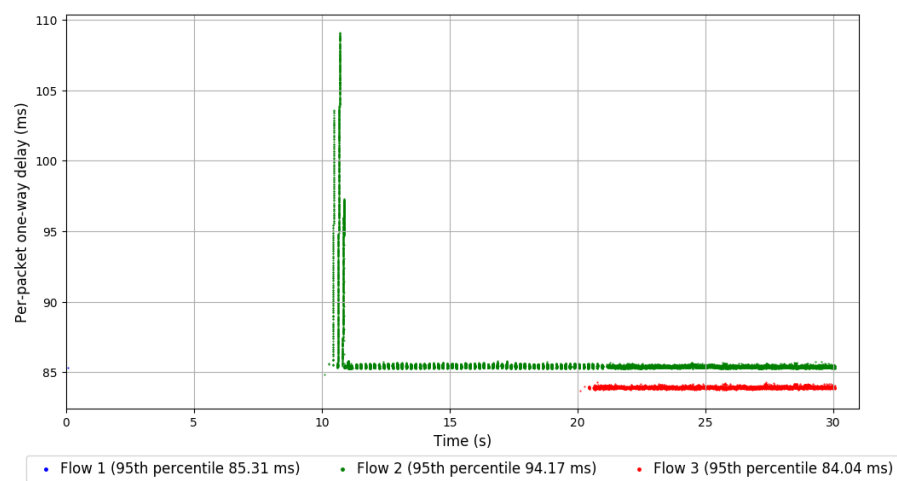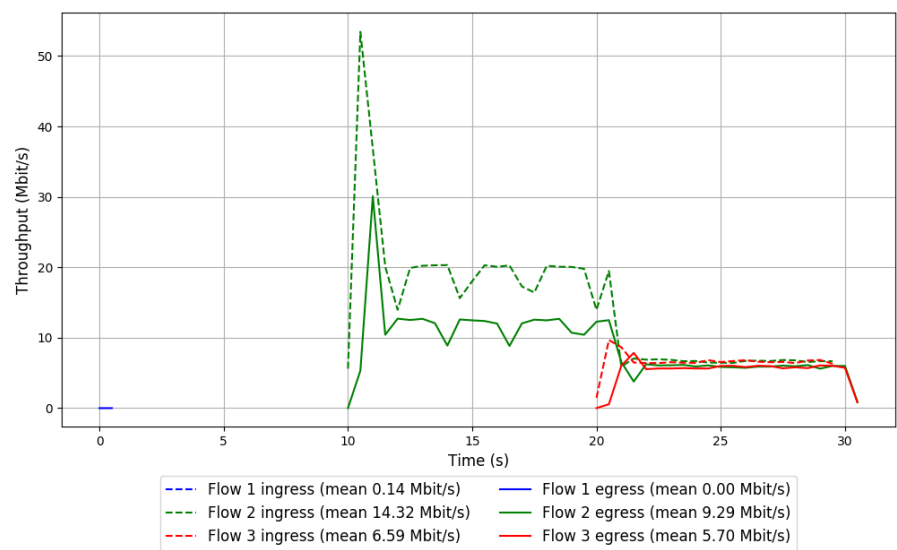
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 0.14 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 14.32 Mbit/s)   Flow 2 egress (mean 9.29 Mbit/s)
Flow 3 ingress (mean 6.59 Mbit/s)   Flow 3 egress (mean 5.70 Mbit/s)

Flow 1 (95th percentile 85.31 ms)   Flow 2 (95th percentile 94.17 ms)   Flow 3 (95th percentile 84.04 ms)

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

Start at: 2019-01-17 13:28:28
End at: 2019-01-17 13:28:58
Local clock offset: -4.338 ms
Remote clock offset: 2.445 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 86.807 ms
Loss rate: 31.37%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 82.229 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 90.185 ms
Loss rate: 34.67%
-- Flow 3:
Average throughput: 5.68 Mbit/s
95th percentile per-packet one-way delay: 80.310 ms
Loss rate: 17.70%
```
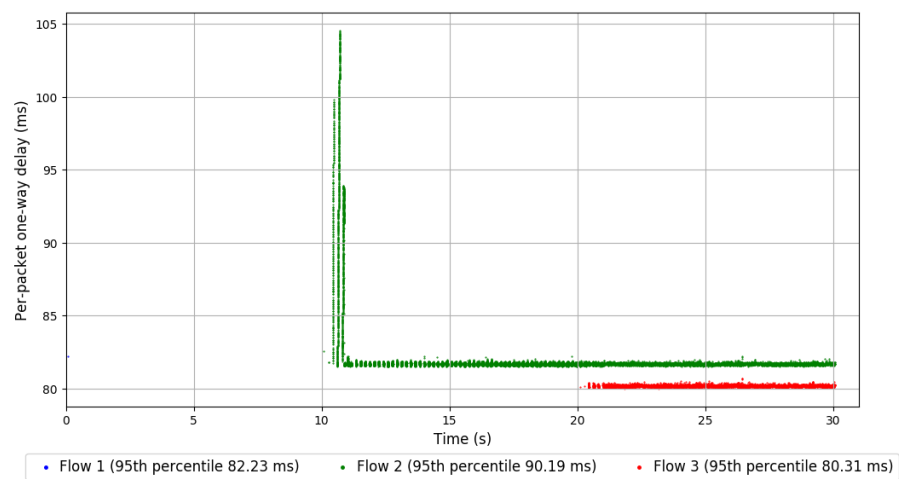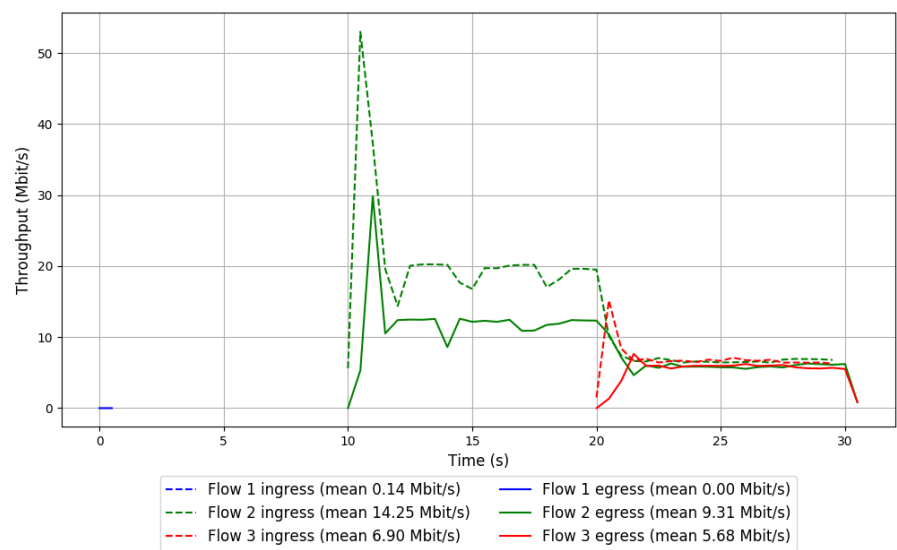
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 0.14 Mbit/s)
Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 14.25 Mbit/s)
Flow 2 egress (mean 9.31 Mbit/s)
Flow 3 ingress (mean 6.90 Mbit/s)
Flow 3 egress (mean 5.68 Mbit/s)

Flow 1 (95th percentile 82.23 ms)
Flow 2 (95th percentile 90.19 ms)
Flow 3 (95th percentile 80.31 ms)

172

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

Start at: 2019-01-17 13:54:50
End at: 2019-01-17 13:55:20
Local clock offset: -3.861 ms
Remote clock offset: 2.217 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 88.480 ms
Loss rate: 31.09%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 82.291 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 91.892 ms
Loss rate: 32.34%
-- Flow 3:
Average throughput: 6.07 Mbit/s
95th percentile per-packet one-way delay: 82.103 ms
Loss rate: 26.71%
```
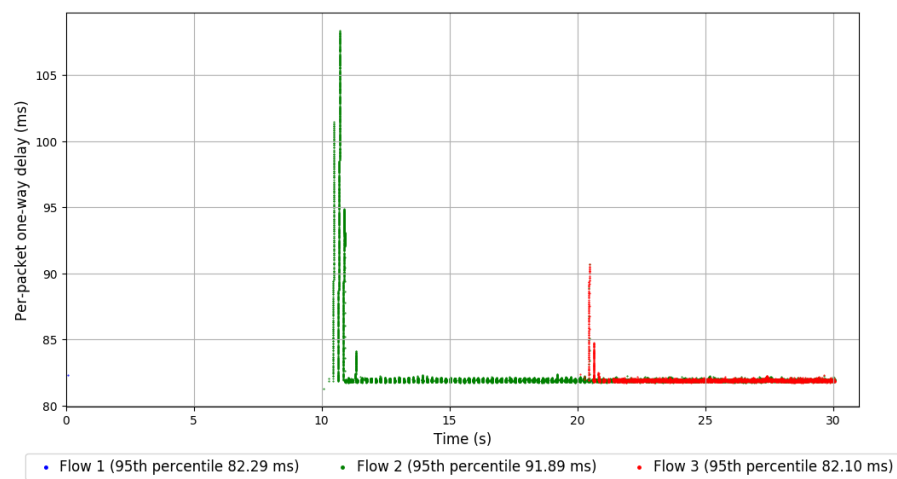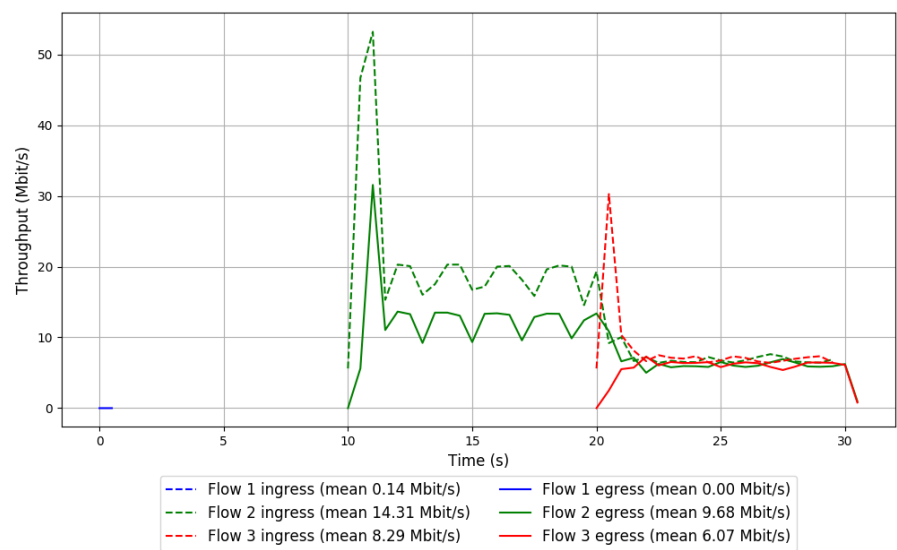
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 0.14 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 14.31 Mbit/s) --- Flow 2 egress (mean 9.68 Mbit/s)
Flow 3 ingress (mean 8.29 Mbit/s) --- Flow 3 egress (mean 6.07 Mbit/s)

Flow 1 (95th percentile 82.29 ms) • Flow 2 (95th percentile 91.89 ms) • Flow 3 (95th percentile 82.10 ms)

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```
Run 1: Statistics of TCP Vegas

Start at: 2019-01-17 12:18:12
End at: 2019-01-17 12:18:42
Local clock offset: -2.571 ms
Remote clock offset: 3.572 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 82.059 ms
Loss rate: 4.49%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 80.302 ms
Loss rate: 5.95%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 80.231 ms
Loss rate: 3.30%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 82.207 ms
Loss rate: 3.87%
```
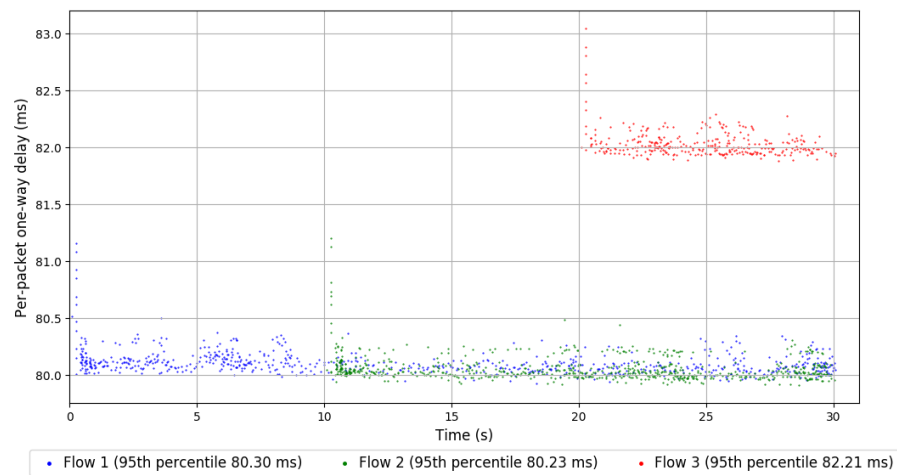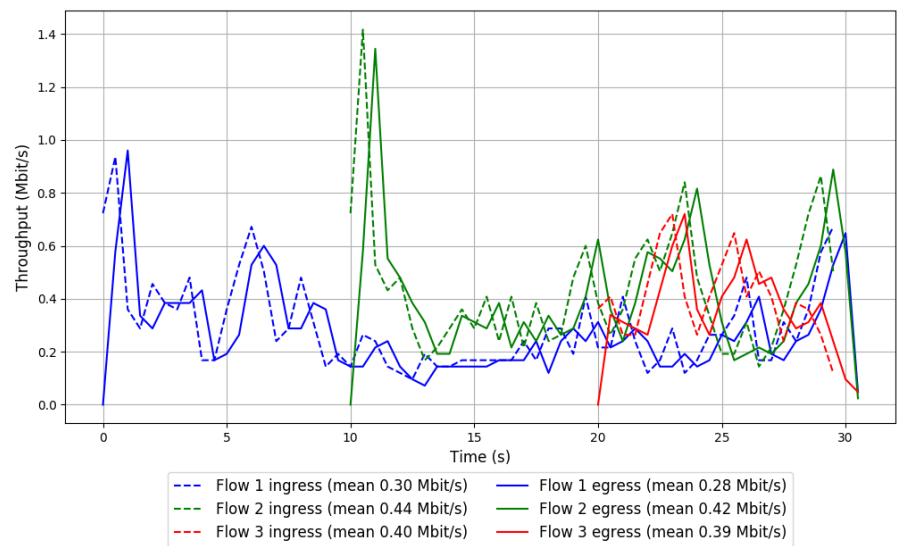
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2019-01-17 12:44:32
End at: 2019-01-17 12:45:02
Local clock offset: -4.046 ms
Remote clock offset: 3.424 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 82.683 ms
Loss rate: 4.94%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 82.296 ms
Loss rate: 4.84%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 82.744 ms
Loss rate: 4.67%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 81.847 ms
Loss rate: 5.69%
```
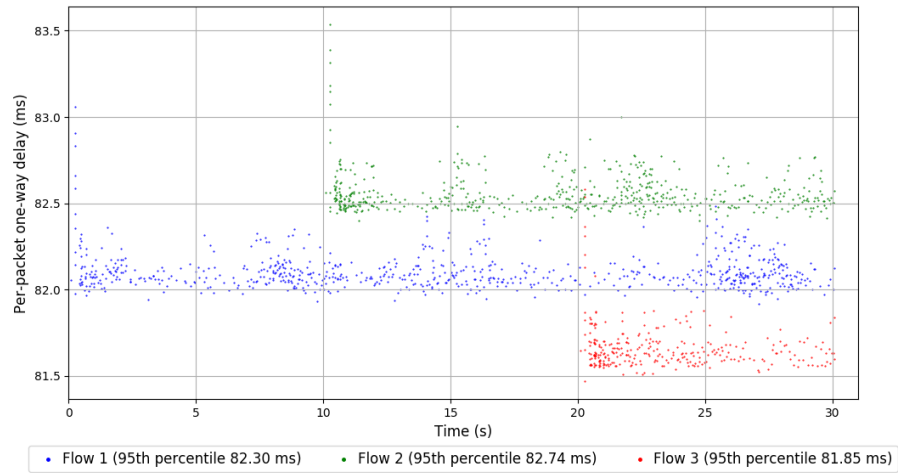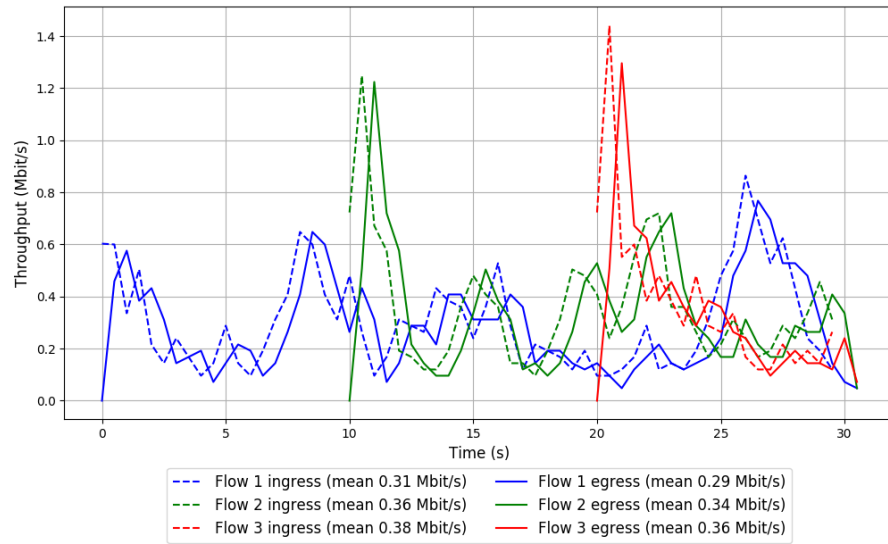
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-01-17 13:10:52
End at: 2019-01-17 13:11:22
Local clock offset: -4.511 ms
Remote clock offset: 2.145 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 81.032 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 79.818 ms
Loss rate: 4.31%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 81.155 ms
Loss rate: 5.00%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 79.189 ms
Loss rate: 5.69%
```
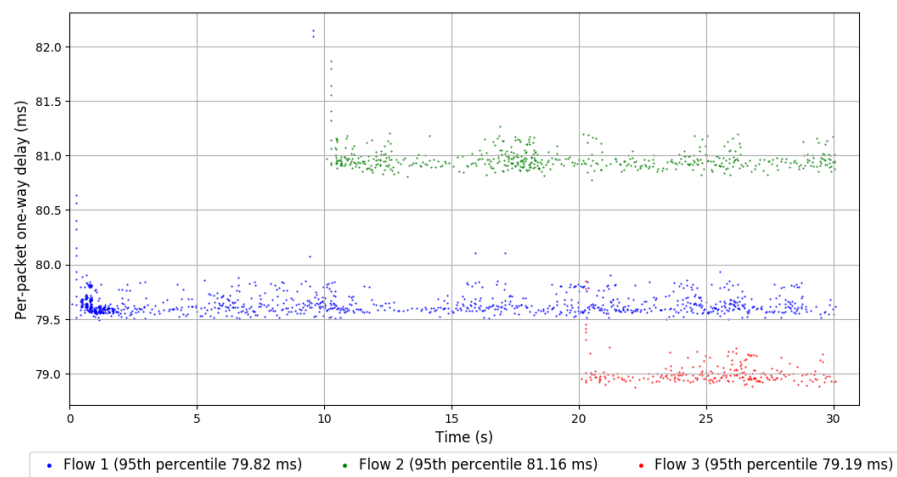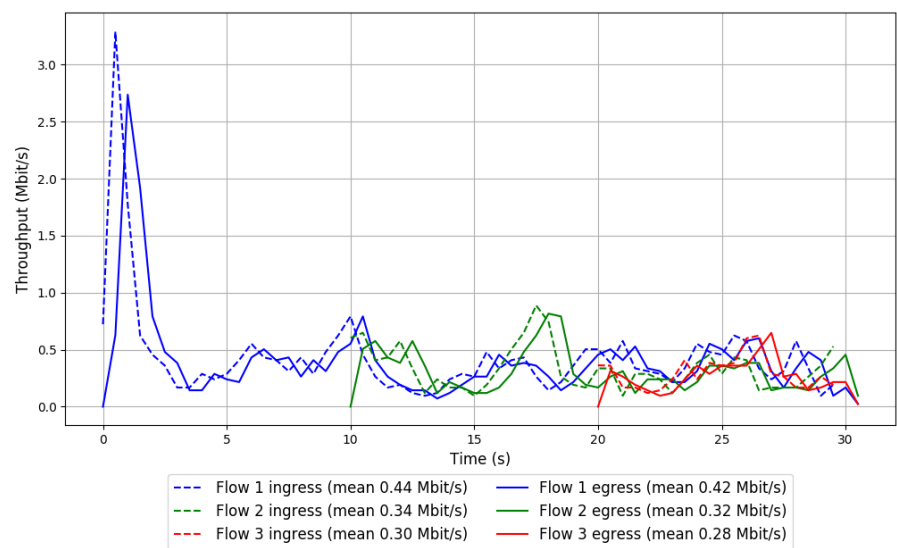
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 0.44 Mbit/s) — — — Flow 1 egress (mean 0.42 Mbit/s)
Flow 2 ingress (mean 0.34 Mbit/s) — — — Flow 2 egress (mean 0.32 Mbit/s)
Flow 3 ingress (mean 0.30 Mbit/s) — — — Flow 3 egress (mean 0.28 Mbit/s)

Flow 1 (95th percentile 79.82 ms)   Flow 2 (95th percentile 81.16 ms)   Flow 3 (95th percentile 79.19 ms)

180

```
Run 4: Statistics of TCP Vegas

Start at: 2019-01-17 13:37:12
End at: 2019-01-17 13:37:42
Local clock offset: -4.973 ms
Remote clock offset: 6.157 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 86.962 ms
Loss rate: 4.67%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 87.011 ms
Loss rate: 5.27%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 84.832 ms
Loss rate: 4.47%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 86.482 ms
Loss rate: 3.47%
```
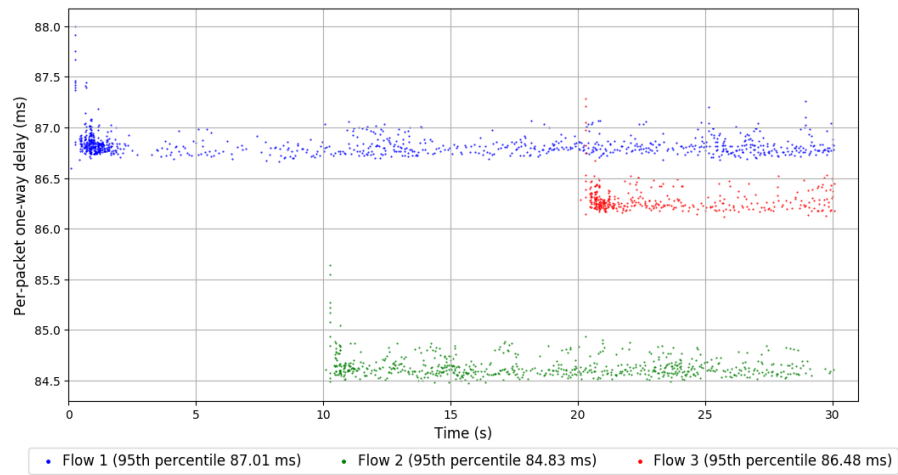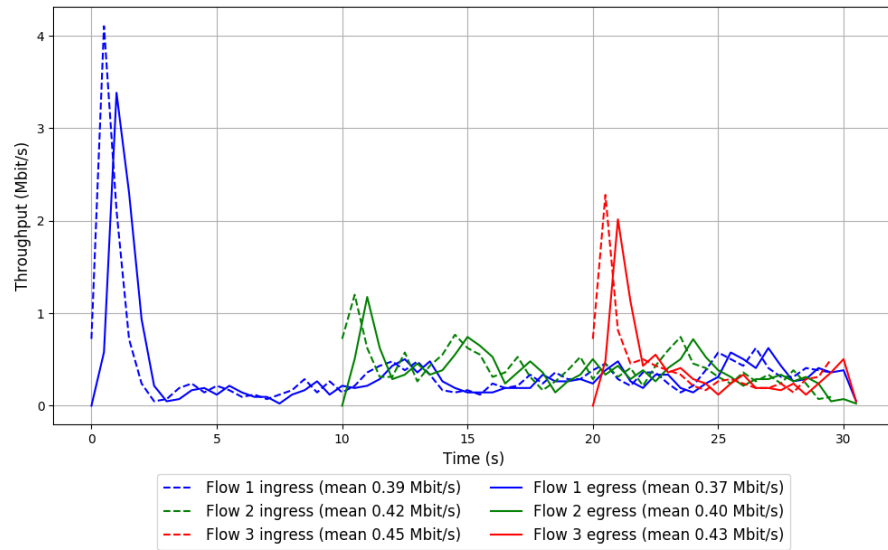
Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2019-01-17 14:03:40
End at: 2019-01-17 14:04:10
Local clock offset: -3.594 ms
Remote clock offset: 6.915 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 114.897 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 116.460 ms
Loss rate: 4.65%
-- Flow 2:
Average throughput: 5.13 Mbit/s
95th percentile per-packet one-way delay: 85.575 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 14.51 Mbit/s
95th percentile per-packet one-way delay: 115.551 ms
Loss rate: 6.47%
```
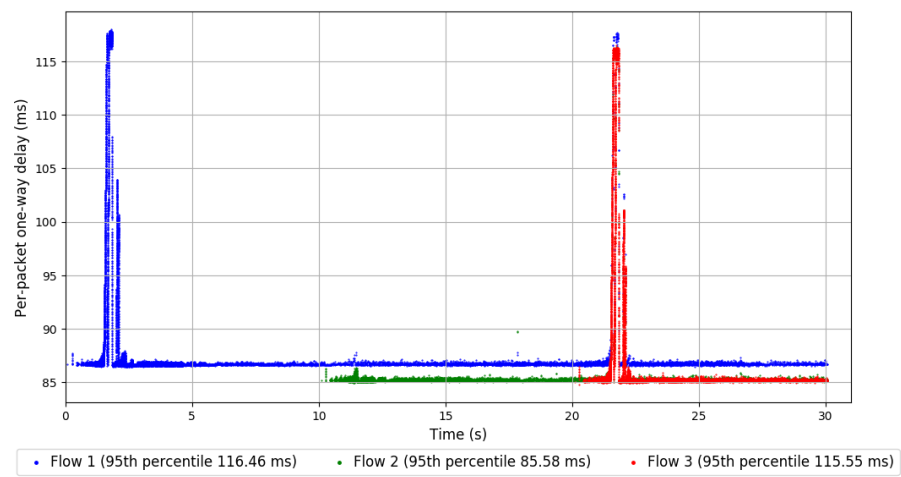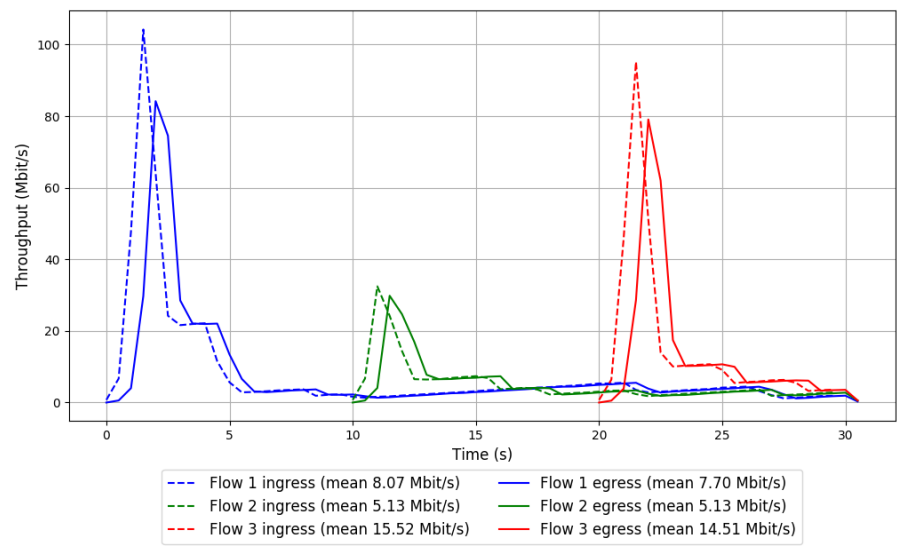
Run 5: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2019-01-17 12:31:59
End at: 2019-01-17 12:32:29
Local clock offset: -3.72 ms
Remote clock offset: 2.437 ms


# Below is generated by plot.py at 2019-01-17 14:27:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.15 Mbit/s
95th percentile per-packet one-way delay: 144.653 ms
Loss rate: 53.84%
-- Flow 1:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 180.452 ms
Loss rate: 65.52%
-- Flow 2:
Average throughput: 7.52 Mbit/s
95th percentile per-packet one-way delay: 108.914 ms
Loss rate: 12.60%
-- Flow 3:
Average throughput: 22.51 Mbit/s
95th percentile per-packet one-way delay: 111.332 ms
Loss rate: 40.17%
```
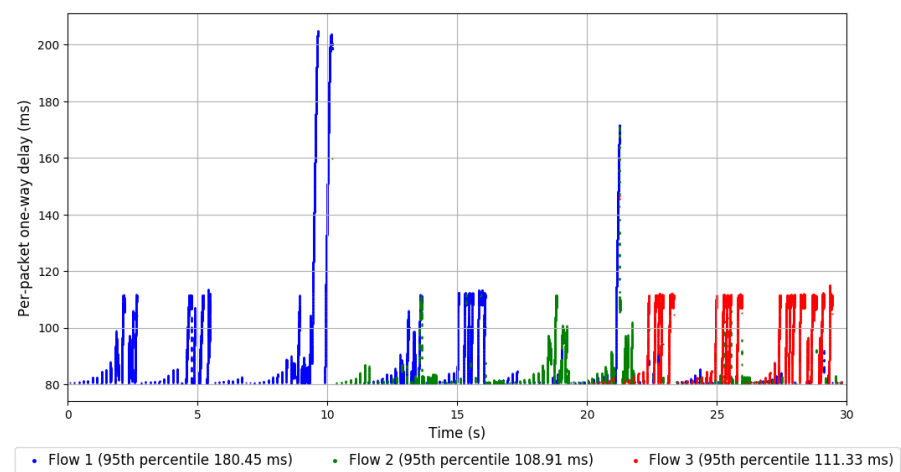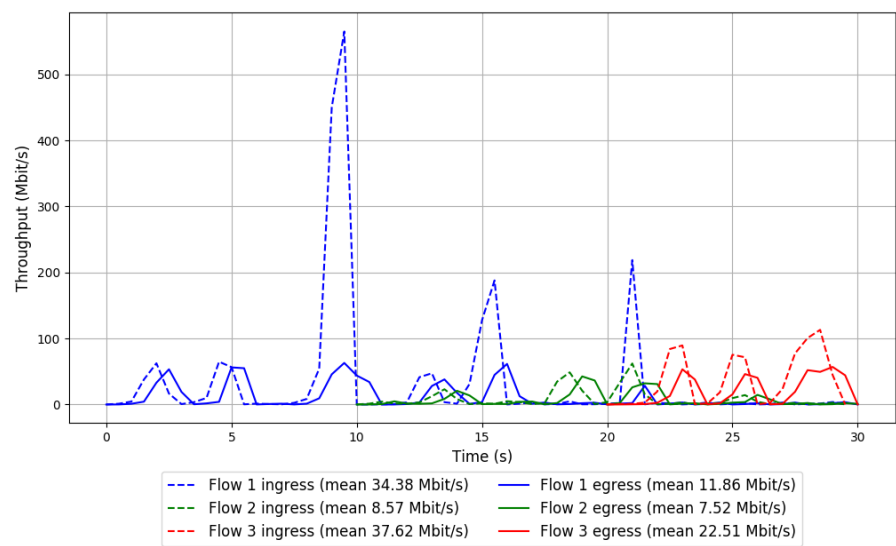
Run 1: Report of Verus — Data Link

Flow 1 ingress (mean 34.38 Mbit/s) ---- Flow 1 egress (mean 11.86 Mbit/s) ——
Flow 2 ingress (mean 8.57 Mbit/s)   ---- Flow 2 egress (mean 7.52 Mbit/s) ——
Flow 3 ingress (mean 37.62 Mbit/s) ---- Flow 3 egress (mean 22.51 Mbit/s) ——

• Flow 1 (95th percentile 180.45 ms)   • Flow 2 (95th percentile 108.91 ms)   • Flow 3 (95th percentile 111.33 ms)

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```
Run 2: Statistics of Verus

Start at: 2019-01-17 12:58:20
End at: 2019-01-17 12:58:50
Local clock offset: -5.094 ms
Remote clock offset: 2.104 ms


# Below is generated by plot.py at 2019-01-17 14:27:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 165.089 ms
Loss rate: 75.91%
-- Flow 1:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 165.620 ms
Loss rate: 75.05%
-- Flow 2:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 168.842 ms
Loss rate: 77.19%
-- Flow 3:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 140.903 ms
Loss rate: 75.43%
```
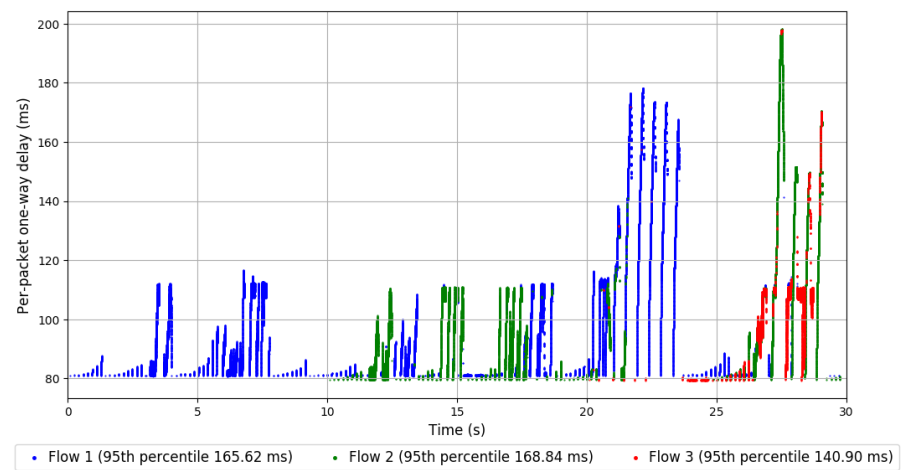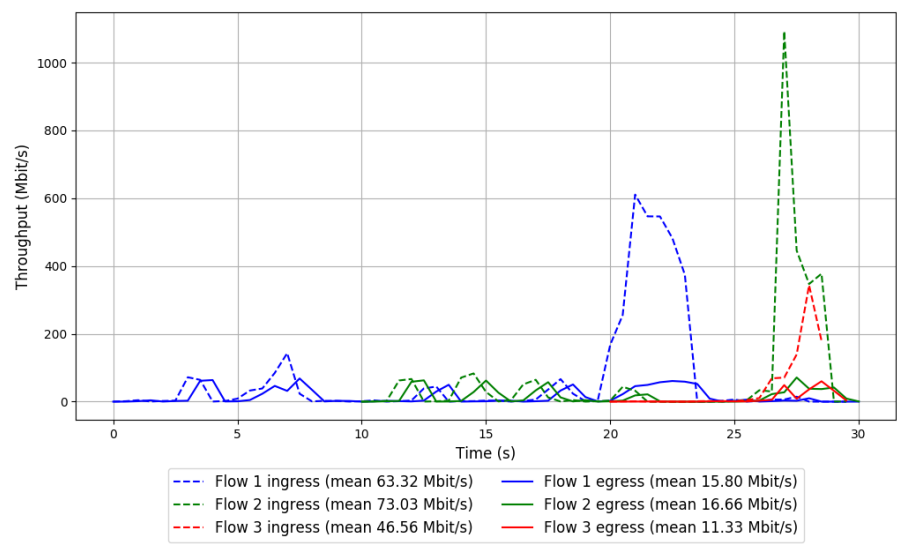
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-01-17 13:24:38
End at: 2019-01-17 13:25:08
Local clock offset: -5.159 ms
Remote clock offset: 1.68 ms


# Below is generated by plot.py at 2019-01-17 14:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 118.969 ms
Loss rate: 82.48%
-- Flow 1:
Average throughput: 10.96 Mbit/s
95th percentile per-packet one-way delay: 110.607 ms
Loss rate: 30.55%
-- Flow 2:
Average throughput: 22.98 Mbit/s
95th percentile per-packet one-way delay: 128.150 ms
Loss rate: 86.47%
-- Flow 3:
Average throughput: 34.49 Mbit/s
95th percentile per-packet one-way delay: 114.043 ms
Loss rate: 87.02%
```
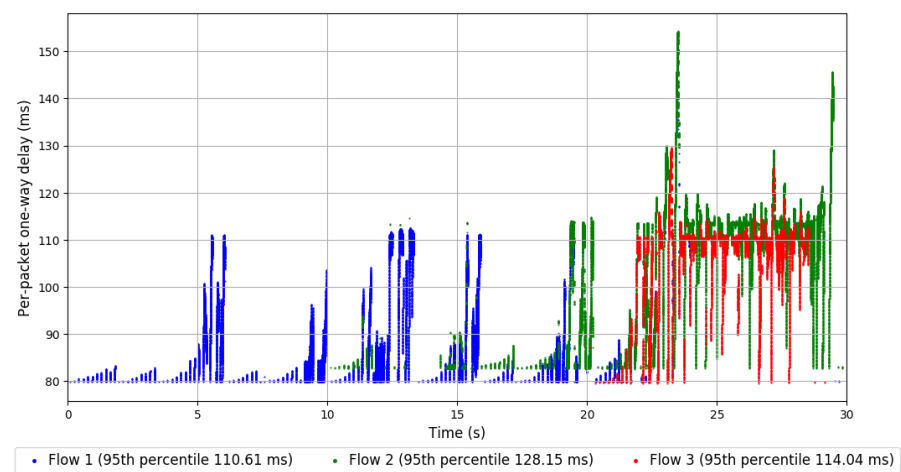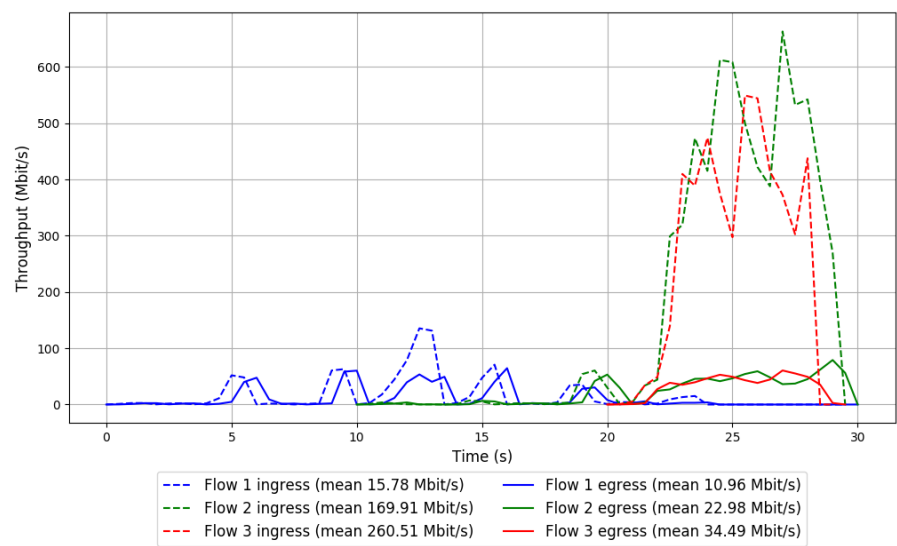
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-01-17 13:51:02
End at: 2019-01-17 13:51:32
Local clock offset: -4.723 ms
Remote clock offset: 1.194 ms


# Below is generated by plot.py at 2019-01-17 14:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.55 Mbit/s
95th percentile per-packet one-way delay: 112.804 ms
Loss rate: 43.57%
-- Flow 1:
Average throughput: 26.42 Mbit/s
95th percentile per-packet one-way delay: 111.489 ms
Loss rate: 38.60%
-- Flow 2:
Average throughput: 19.72 Mbit/s
95th percentile per-packet one-way delay: 123.797 ms
Loss rate: 56.18%
-- Flow 3:
Average throughput: 12.74 Mbit/s
95th percentile per-packet one-way delay: 111.764 ms
Loss rate: 7.13%
```
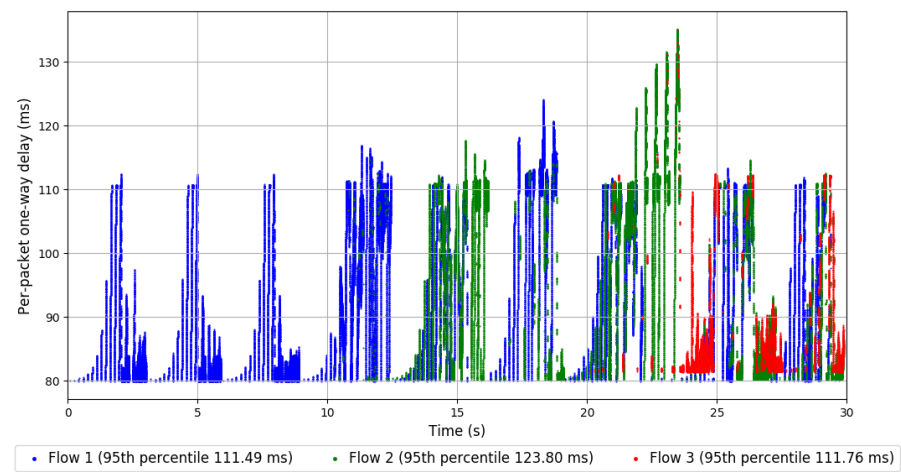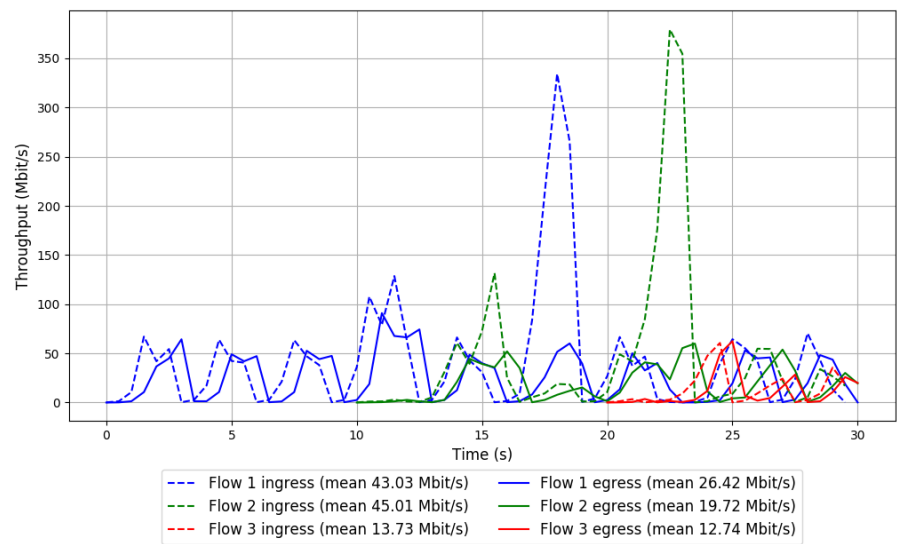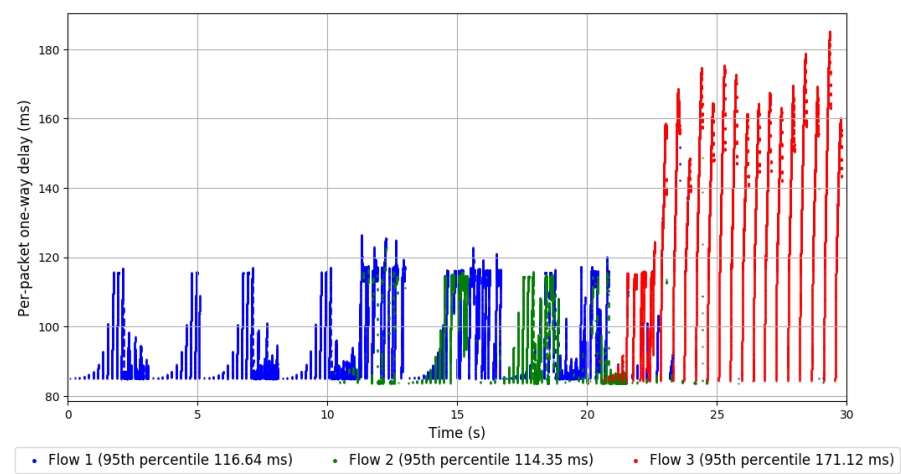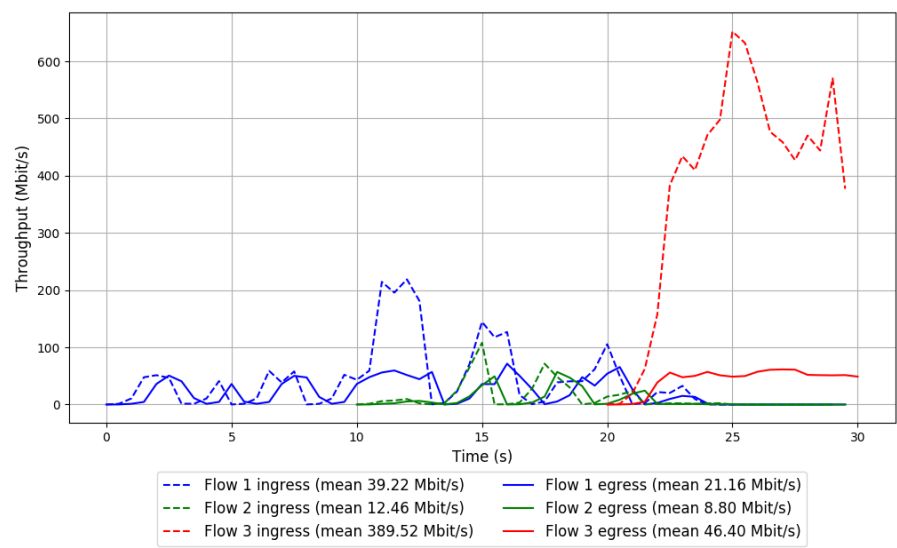
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2019-01-17 14:17:48
End at: 2019-01-17 14:18:18
Local clock offset: -4.105 ms
Remote clock offset: 4.84 ms


# Below is generated by plot.py at 2019-01-17 14:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.41 Mbit/s
95th percentile per-packet one-way delay: 163.245 ms
Loss rate: 76.05%
-- Flow 1:
Average throughput: 21.16 Mbit/s
95th percentile per-packet one-way delay: 116.635 ms
Loss rate: 46.38%
-- Flow 2:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 114.349 ms
Loss rate: 30.12%
-- Flow 3:
Average throughput: 46.40 Mbit/s
95th percentile per-packet one-way delay: 171.116 ms
Loss rate: 88.02%
```

Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 39.22 Mbit/s)   Flow 1 egress (mean 21.16 Mbit/s)
Flow 2 ingress (mean 12.46 Mbit/s)   Flow 2 egress (mean 8.80 Mbit/s)
Flow 3 ingress (mean 389.52 Mbit/s)   Flow 3 egress (mean 46.40 Mbit/s)

Flow 1 (95th percentile 116.64 ms)   Flow 2 (95th percentile 114.35 ms)   Flow 3 (95th percentile 171.12 ms)

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```
Run 1: Statistics of PCC-Vivace

Start at: 2019-01-17 12:11:55
End at: 2019-01-17 12:12:25
Local clock offset: -2.467 ms
Remote clock offset: 9.202 ms


# Below is generated by plot.py at 2019-01-17 14:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 21.45 Mbit/s
95th percentile per-packet one-way delay: 86.816 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 19.56 Mbit/s
95th percentile per-packet one-way delay: 86.769 ms
Loss rate: 4.12%
-- Flow 2:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 85.613 ms
Loss rate: 4.00%
-- Flow 3:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 87.150 ms
Loss rate: 4.09%
```
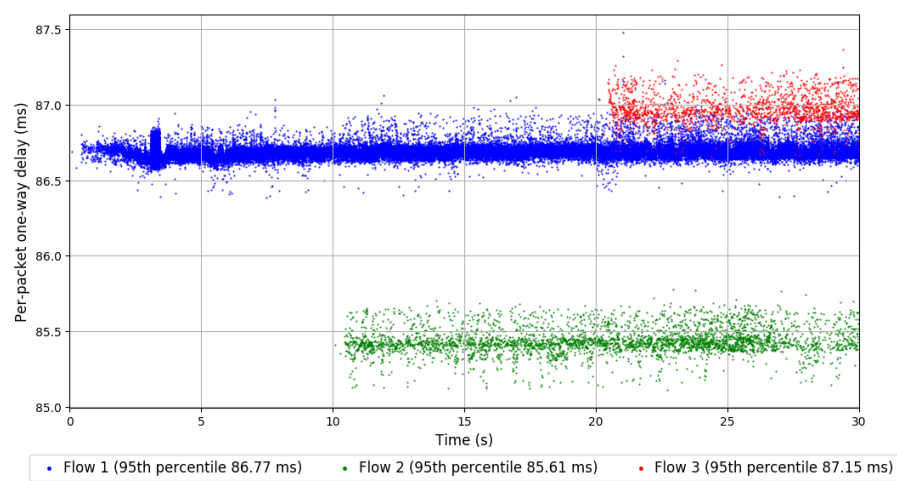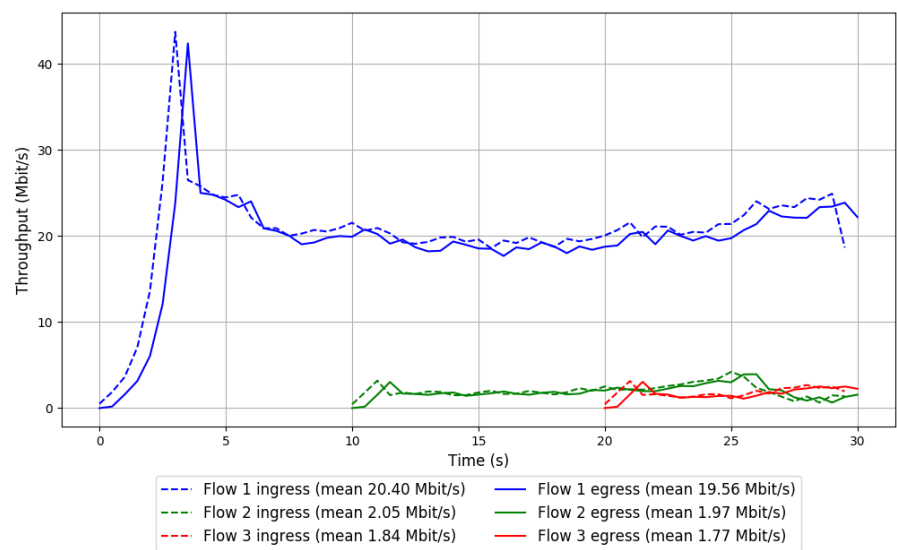
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-01-17 12:38:12
End at: 2019-01-17 12:38:42
Local clock offset: -4.685 ms
Remote clock offset: 2.652 ms


# Below is generated by plot.py at 2019-01-17 14:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 83.523 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 83.551 ms
Loss rate: 4.50%
-- Flow 2:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 81.382 ms
Loss rate: 4.36%
-- Flow 3:
Average throughput: 5.90 Mbit/s
95th percentile per-packet one-way delay: 82.102 ms
Loss rate: 4.28%
```
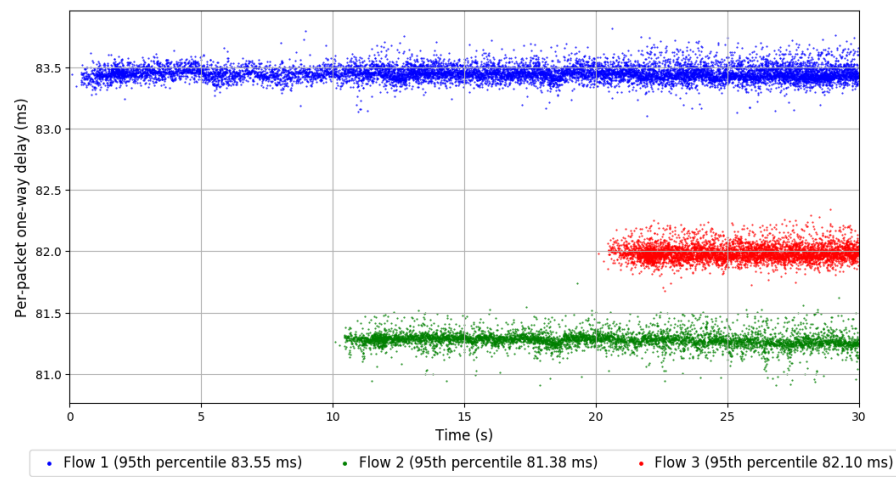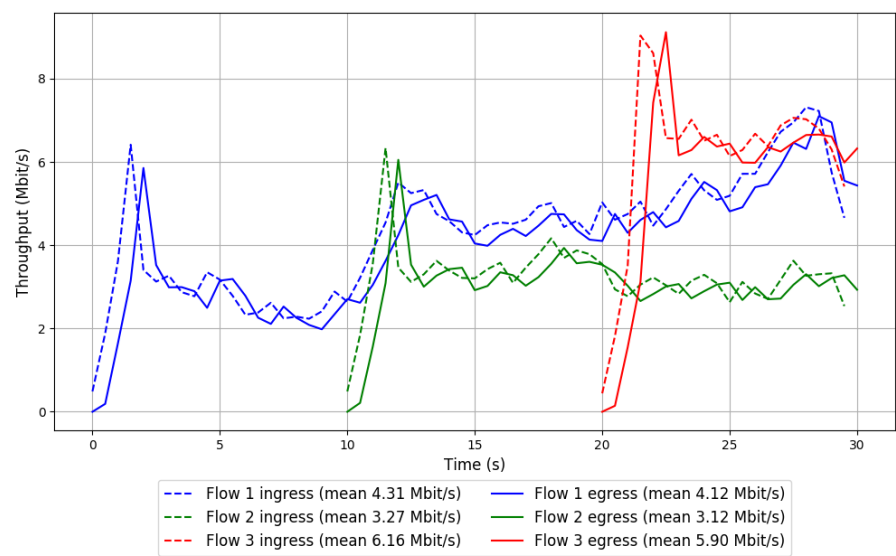
Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-01-17 13:04:33
End at: 2019-01-17 13:05:03
Local clock offset: -4.433 ms
Remote clock offset: 3.422 ms


# Below is generated by plot.py at 2019-01-17 14:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 89.101 ms
Loss rate: 4.36%
-- Flow 1:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 83.222 ms
Loss rate: 4.34%
-- Flow 2:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 94.012 ms
Loss rate: 4.36%
-- Flow 3:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 80.408 ms
Loss rate: 4.45%
```
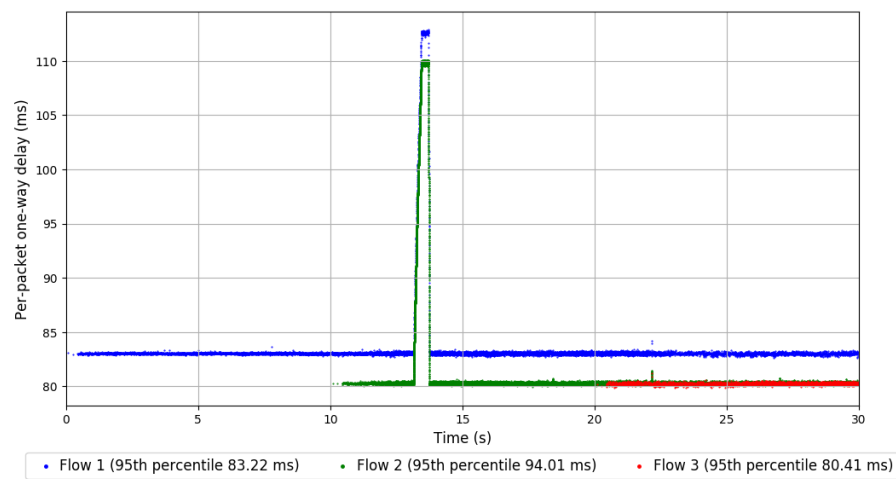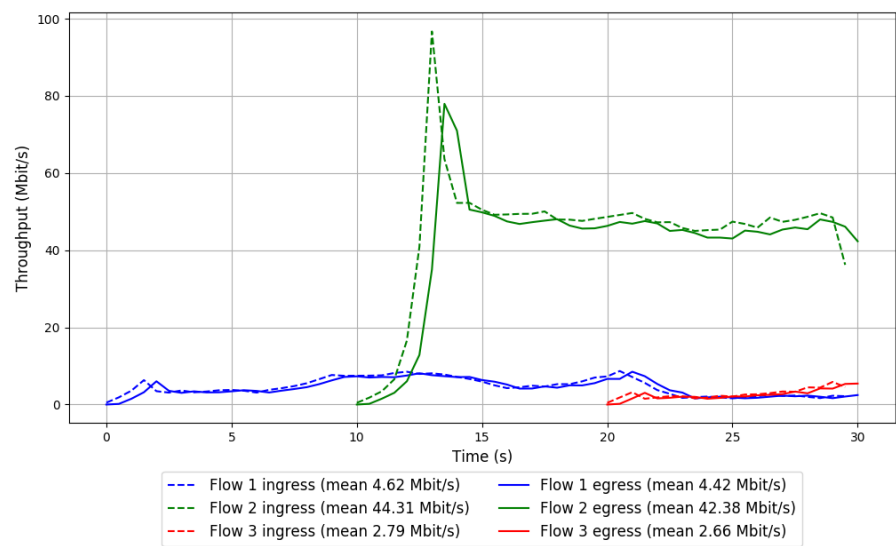
Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 4.62 Mbit/s) — Flow 1 egress (mean 4.42 Mbit/s)
Flow 2 ingress (mean 44.31 Mbit/s) — Flow 2 egress (mean 42.38 Mbit/s)
Flow 3 ingress (mean 2.79 Mbit/s) — Flow 3 egress (mean 2.66 Mbit/s)

Flow 1 (95th percentile 83.22 ms)   Flow 2 (95th percentile 94.01 ms)   Flow 3 (95th percentile 80.41 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-01-17 13:30:54
End at: 2019-01-17 13:31:24
Local clock offset: -4.238 ms
Remote clock offset: 2.607 ms


# Below is generated by plot.py at 2019-01-17 14:27:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 81.954 ms
Loss rate: 4.12%
-- Flow 1:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 81.906 ms
Loss rate: 4.21%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 81.988 ms
Loss rate: 4.16%
-- Flow 3:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 81.964 ms
Loss rate: 4.07%
```
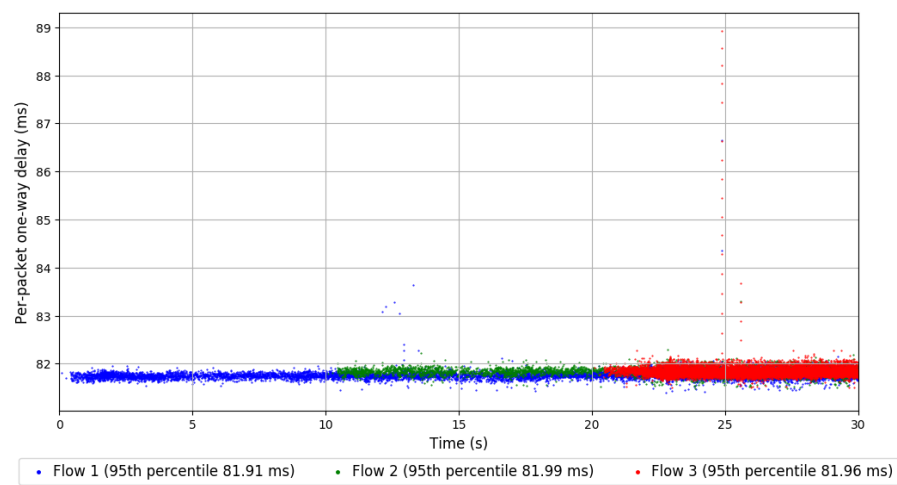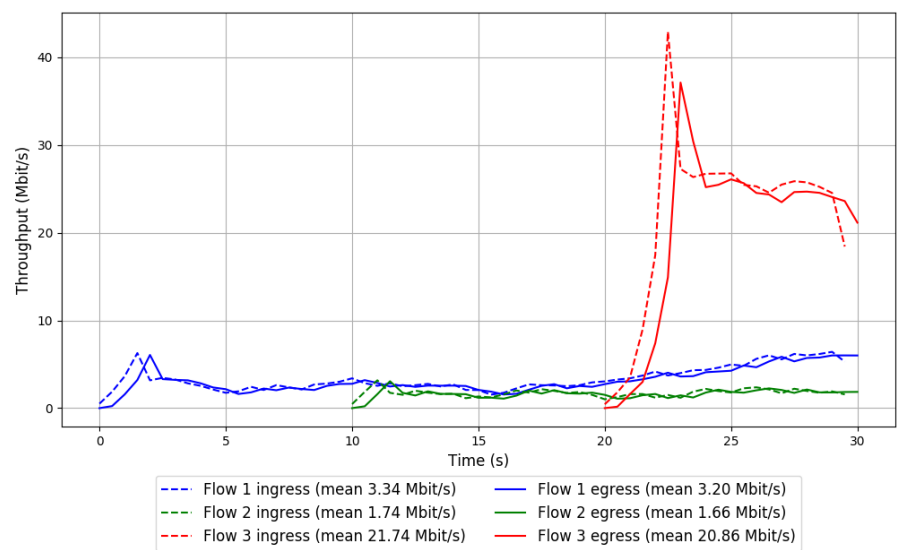
Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-01-17 13:57:16
End at: 2019-01-17 13:57:46
Local clock offset: -4.521 ms
Remote clock offset: 1.233 ms


# Below is generated by plot.py at 2019-01-17 14:27:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.31 Mbit/s
95th percentile per-packet one-way delay: 109.052 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 66.43 Mbit/s
95th percentile per-packet one-way delay: 107.672 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 13.17 Mbit/s
95th percentile per-packet one-way delay: 111.202 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 109.832 ms
Loss rate: 0.36%
```
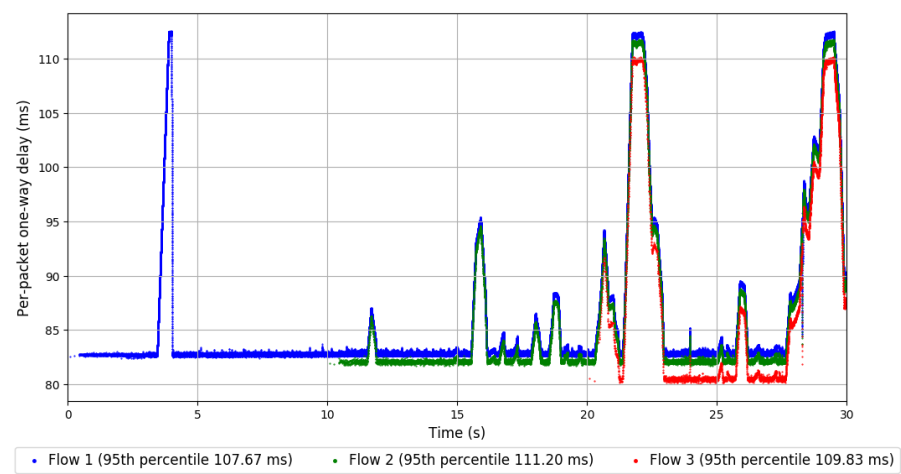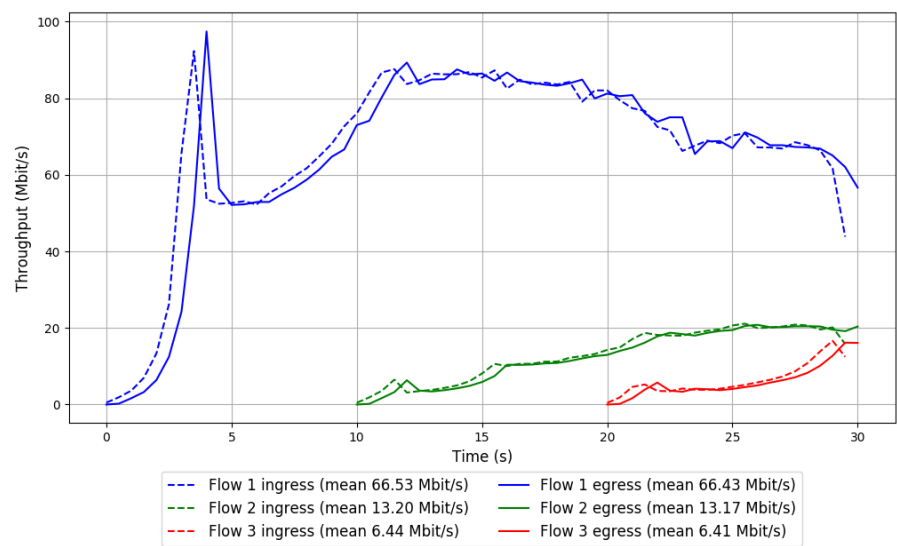
Run 5: Report of PCC-Vivace — Data Link

- - - Flow 1 ingress (mean 66.53 Mbit/s)   —— Flow 1 egress (mean 66.43 Mbit/s)
- - - Flow 2 ingress (mean 13.20 Mbit/s)   —— Flow 2 egress (mean 13.17 Mbit/s)
- - - Flow 3 ingress (mean 6.44 Mbit/s)   —— Flow 3 egress (mean 6.41 Mbit/s)

• Flow 1 (95th percentile 107.67 ms)   • Flow 2 (95th percentile 111.20 ms)   • Flow 3 (95th percentile 109.83 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2019-01-17 12:28:10
End at: 2019-01-17 12:28:40
Local clock offset: -4.304 ms
Remote clock offset: 7.376 ms


# Below is generated by plot.py at 2019-01-17 14:27:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 86.484 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 85.016 ms
Loss rate: 4.65%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 86.796 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 86.374 ms
Loss rate: 2.45%
```
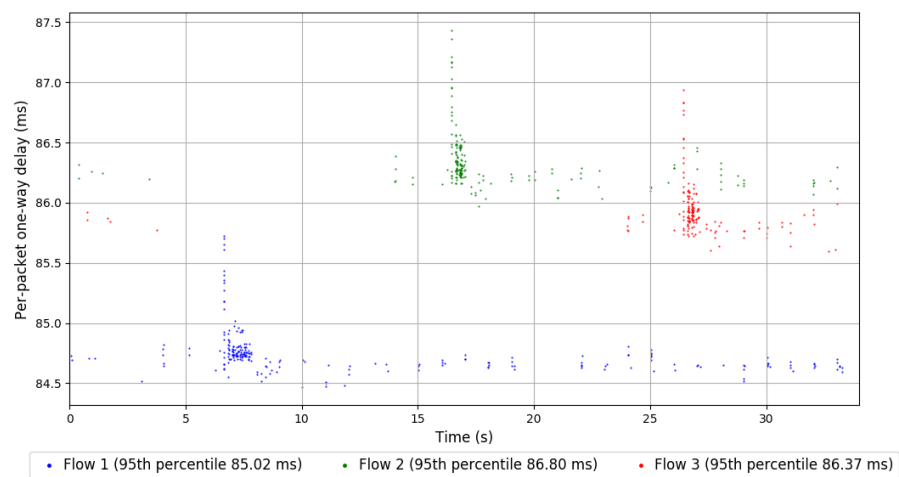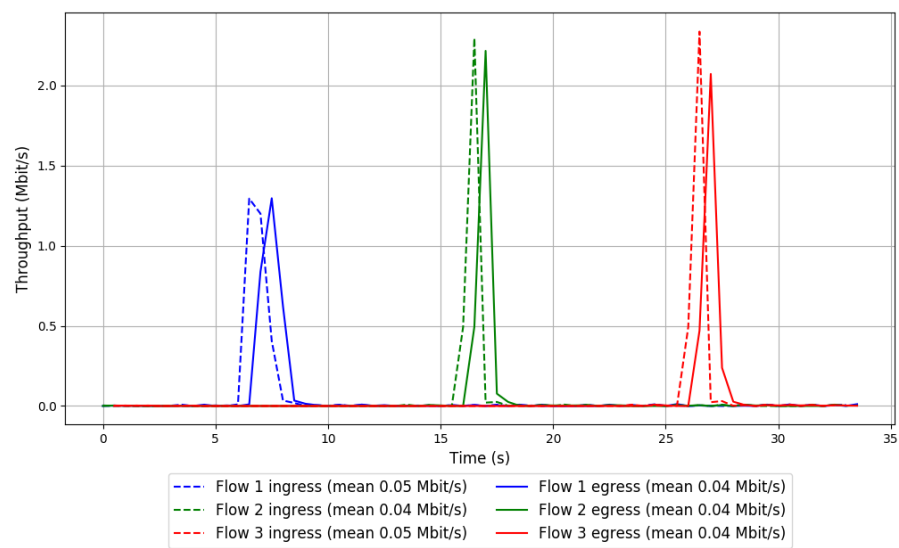
Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.05 Mbit/s)   Flow 1 egress (mean 0.04 Mbit/s)
Flow 2 ingress (mean 0.04 Mbit/s)   Flow 2 egress (mean 0.04 Mbit/s)
Flow 3 ingress (mean 0.05 Mbit/s)   Flow 3 egress (mean 0.04 Mbit/s)

Flow 1 (95th percentile 85.02 ms)   Flow 2 (95th percentile 86.80 ms)   Flow 3 (95th percentile 86.37 ms)

```
Run 2: Statistics of WebRTC media

Start at: 2019-01-17 12:54:31
End at: 2019-01-17 12:55:01
Local clock offset: -4.282 ms
Remote clock offset: 2.339 ms


# Below is generated by plot.py at 2019-01-17 14:27:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 79.757 ms
Loss rate: 5.80%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 79.676 ms
Loss rate: 5.62%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 79.864 ms
Loss rate: 7.67%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 79.743 ms
Loss rate: 4.02%
```
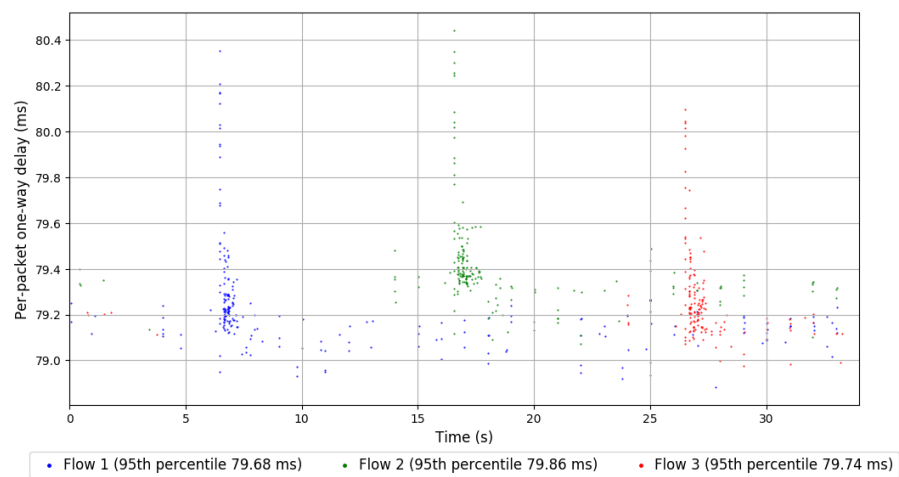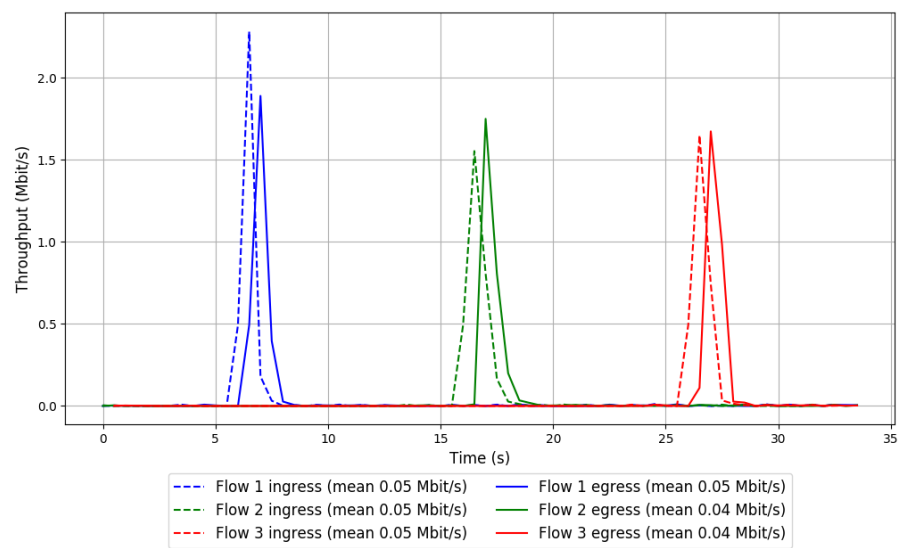
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-01-17 13:20:49
End at: 2019-01-17 13:21:19
Local clock offset: -4.514 ms
Remote clock offset: 1.914 ms


# Below is generated by plot.py at 2019-01-17 14:27:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 81.830 ms
Loss rate: 4.22%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 80.787 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 82.064 ms
Loss rate: 3.96%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 80.529 ms
Loss rate: 7.01%
```
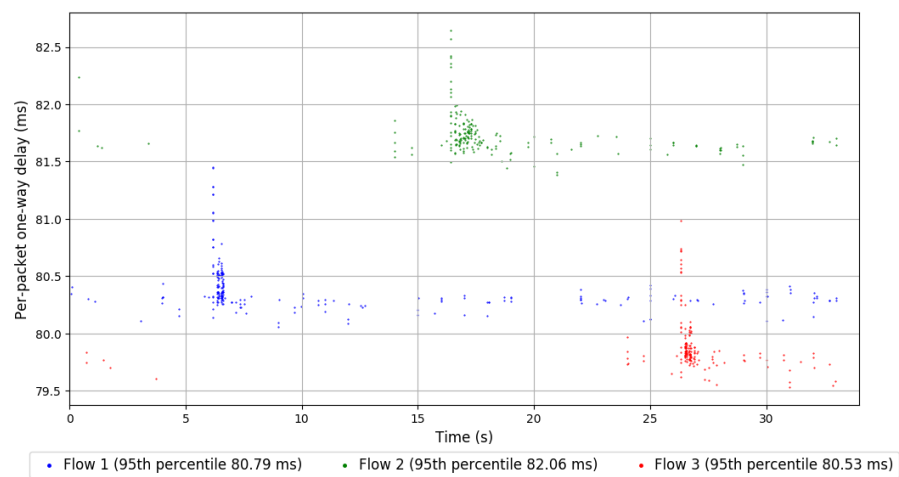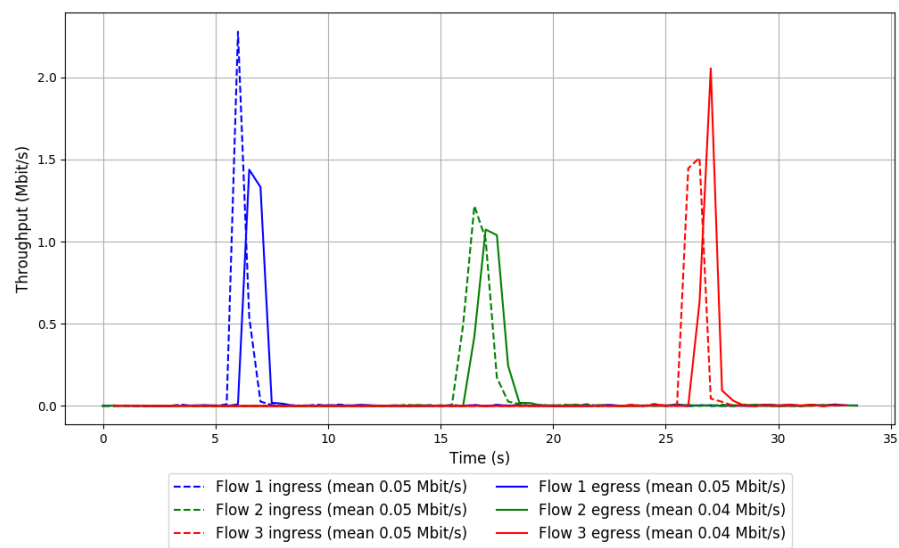
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2019-01-17 13:47:12
End at: 2019-01-17 13:47:42
Local clock offset: -4.981 ms
Remote clock offset: 6.075 ms

# Below is generated by plot.py at 2019-01-17 14:27:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 85.297 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.165 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 85.338 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 85.466 ms
Loss rate: 0.00%
```
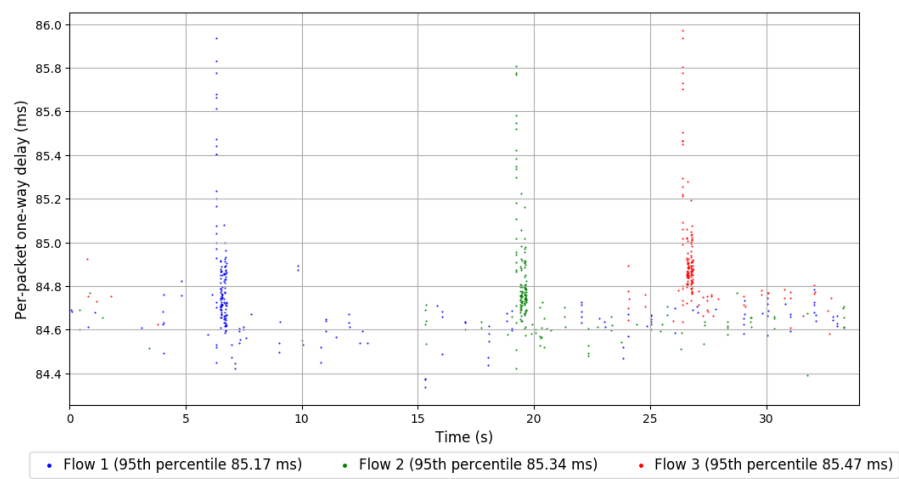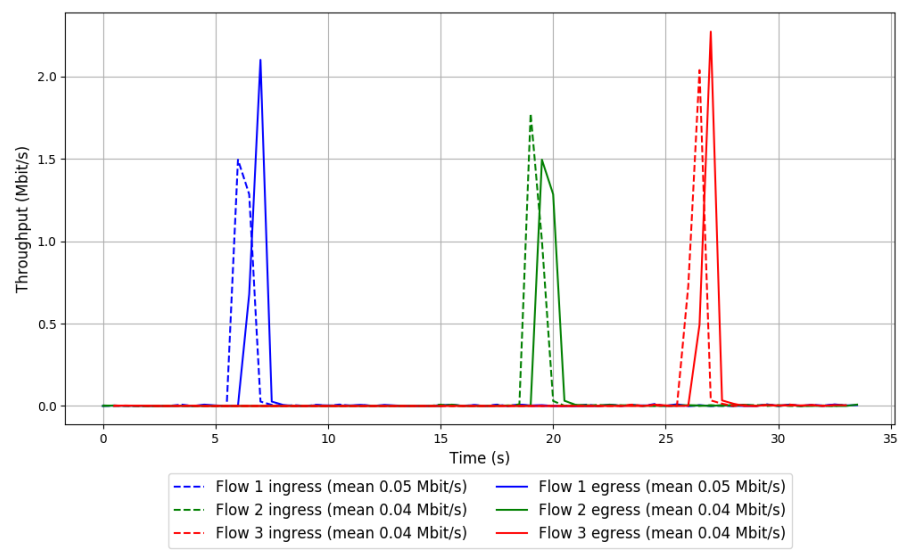
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-01-17 14:13:56
End at: 2019-01-17 14:14:26
Local clock offset: -3.387 ms
Remote clock offset: 1.016 ms


# Below is generated by plot.py at 2019-01-17 14:27:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 82.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 81.174 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 81.199 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 82.721 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link