Pantheon Report

Generated at 2020-02-18 04:09:00 (UTC).

Data path: AWS California 2 on ens5 (*local*) →Mexico on em1 (*remote*).

Repeated the test of 24 congestion control schemes 5 times.

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

NTP offsets were measured against time.stanford.edu and have been applied to correct the timestamps in logs.
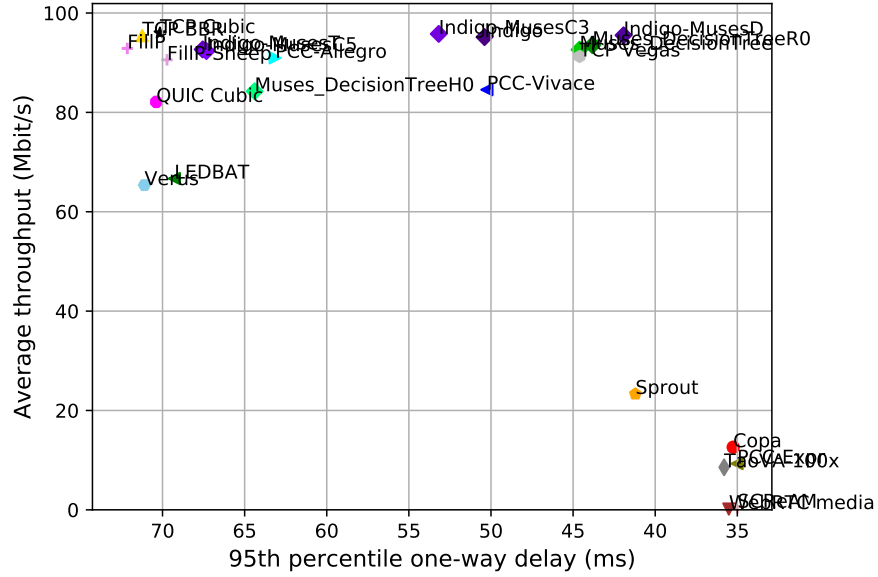
```
System info:
Linux 4.15.0-1056-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
```
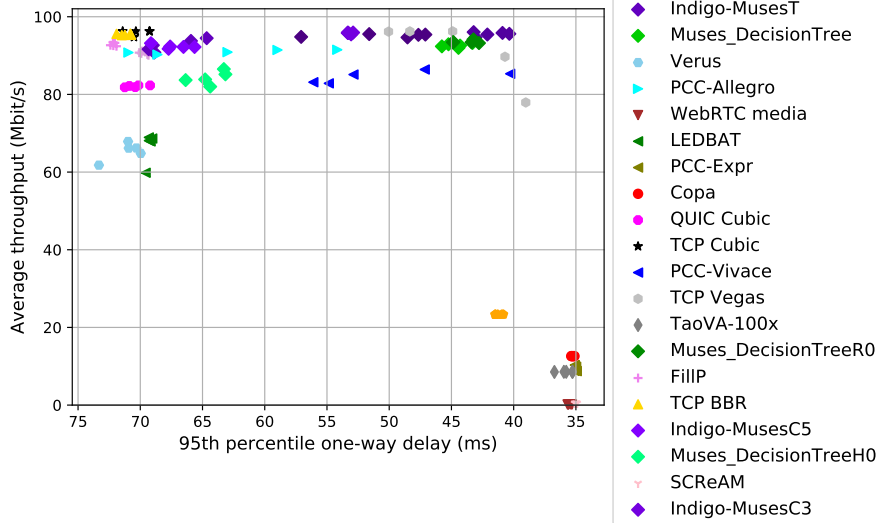
```
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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

test from AWS California 2 to Mexico, 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	61.82	35.03	34.88	70.16	72.28	72.78	6.11	9.54	12.68
Copa	5	8.95	5.49	0.01	35.45	34.98	35.03	70.54	72.98	95.55
TCP Cubic	5	74.99	21.23	20.58	70.20	69.88	66.07	0.73	0.56	0.76
FillP	5	58.04	41.41	22.16	70.79	73.33	72.96	29.54	47.50	54.52
FillP-Sheep	5	55.07	39.27	28.36	68.24	71.35	70.36	9.41	16.95	18.11
Indigo	5	64.38	30.69	31.97	47.06	52.51	55.07	0.00	0.00	0.00
Indigo-MusesC3	5	53.70	50.20	32.66	49.05	52.97	62.13	0.23	0.37	1.65
Indigo-MusesC5	5	56.48	49.72	12.36	64.98	69.19	69.72	7.92	14.90	25.20
Indigo-MusesD	5	55.04	44.50	39.84	41.40	41.61	42.90	0.00	0.00	0.00
Indigo-MusesT	5	54.22	56.81	5.79	64.78	69.09	70.57	12.06	20.01	27.26
LEDBAT	5	42.34	29.80	13.76	68.32	70.42	66.58	0.05	0.33	0.38
Muses_DecisionTree	5	47.30	42.41	53.10	42.40	48.14	47.10	0.14	0.39	0.16
Muses_DecisionTreeH0	5	57.66	36.63	7.42	62.71	66.64	65.44	5.48	9.79	8.48
Muses_DecisionTreeR0	5	52.91	32.30	59.37	42.02	45.68	49.44	0.10	0.23	0.42
PCC-Allegro	5	79.62	12.57	9.08	62.75	65.68	62.66	2.80	3.07	3.39
PCC-Expr	5	7.08	9.76	6.96	34.96	35.02	35.00	74.10	45.95	38.09
QUIC Cubic	5	63.29	20.84	15.18	70.29	70.63	70.67	2.48	0.67	0.64
SCReAM	5	0.21	0.21	0.22	35.04	34.96	34.93	0.00	0.00	0.00
Sprout	5	11.74	11.70	11.53	40.73	41.60	41.57	0.00	0.01	0.02
TaoVA-100x	5	0.00	8.76	9.79	34.81	36.44	35.29	95.92	83.28	69.38
TCP Vegas	5	63.59	31.64	19.79	43.98	45.37	44.11	0.50	0.14	0.00
Verus	5	40.61	31.93	16.64	71.44	69.86	70.04	34.67	27.43	33.12
PCC-Vivace	5	62.05	26.83	14.17	49.30	51.47	53.56	0.00	0.00	0.00
WebRTC media	5	0.05	0.08	0.20	35.44	35.51	35.57	0.00	0.00	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2020-02-18 01:45:35
End at: 2020-02-18 01:46:05
Local clock offset: 3.464 ms
Remote clock offset: 5.886 ms


# Below is generated by plot.py at 2020-02-18 03:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 71.486 ms
Loss rate: 7.42%
-- Flow 1:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 70.678 ms
Loss rate: 6.16%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 72.362 ms
Loss rate: 8.98%
-- Flow 3:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: 72.715 ms
Loss rate: 11.06%
```

Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 63.88 Mbit/s) — Flow 1 egress (mean 59.93 Mbit/s)
Flow 2 ingress (mean 44.53 Mbit/s) — Flow 2 egress (mean 40.56 Mbit/s)
Flow 3 ingress (mean 28.22 Mbit/s) — Flow 3 egress (mean 28.04 Mbit/s)

Flow 1 (95th percentile 70.68 ms) • Flow 2 (95th percentile 72.36 ms) • Flow 3 (95th percentile 72.72 ms)

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```
Run 2: Statistics of TCP BBR

Start at: 2020-02-18 02:17:45
End at: 2020-02-18 02:18:15
Local clock offset: 4.777 ms
Remote clock offset: 6.183 ms


# Below is generated by plot.py at 2020-02-18 03:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 70.748 ms
Loss rate: 7.00%
-- Flow 1:
Average throughput: 60.34 Mbit/s
95th percentile per-packet one-way delay: 69.157 ms
Loss rate: 5.37%
-- Flow 2:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 72.299 ms
Loss rate: 8.99%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 72.743 ms
Loss rate: 11.22%
```
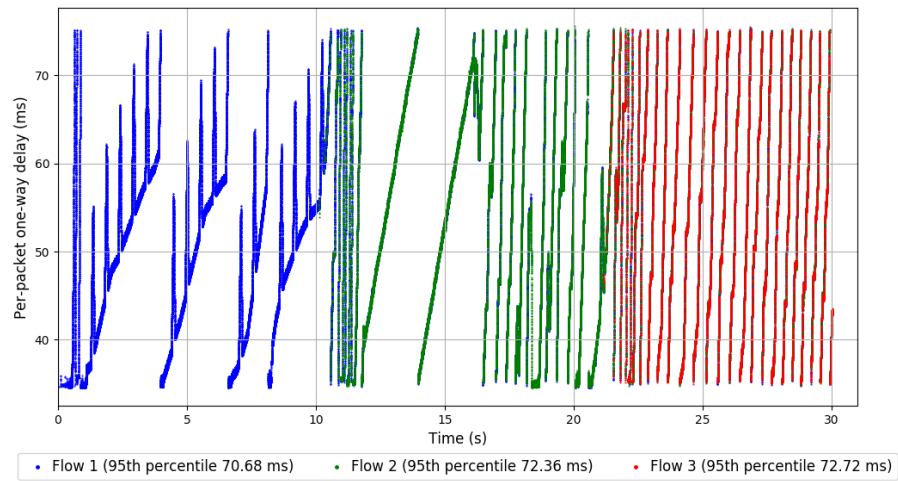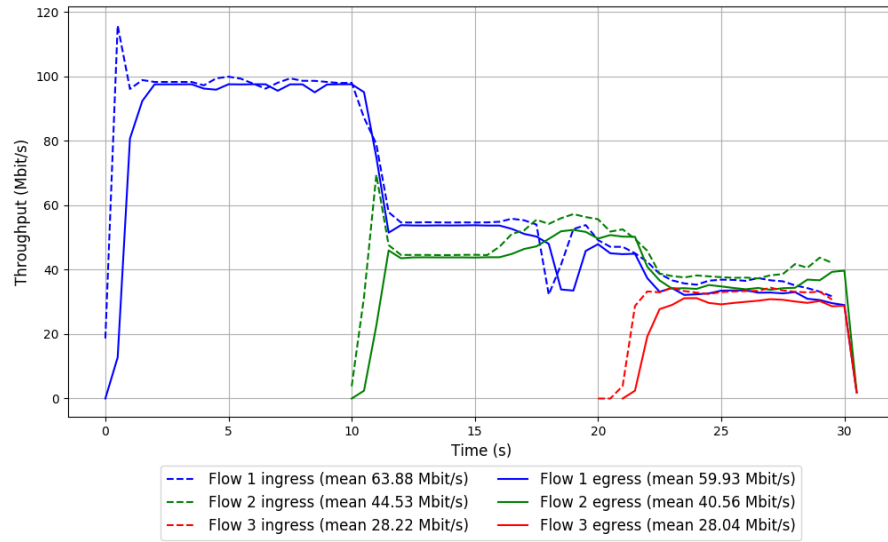
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2020-02-18 02:48:31
End at: 2020-02-18 02:49:01
Local clock offset: 5.03 ms
Remote clock offset: 6.116 ms


# Below is generated by plot.py at 2020-02-18 03:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 71.241 ms
Loss rate: 7.20%
-- Flow 1:
Average throughput: 63.60 Mbit/s
95th percentile per-packet one-way delay: 70.387 ms
Loss rate: 5.86%
-- Flow 2:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 72.122 ms
Loss rate: 9.06%
-- Flow 3:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 72.763 ms
Loss rate: 11.22%
```
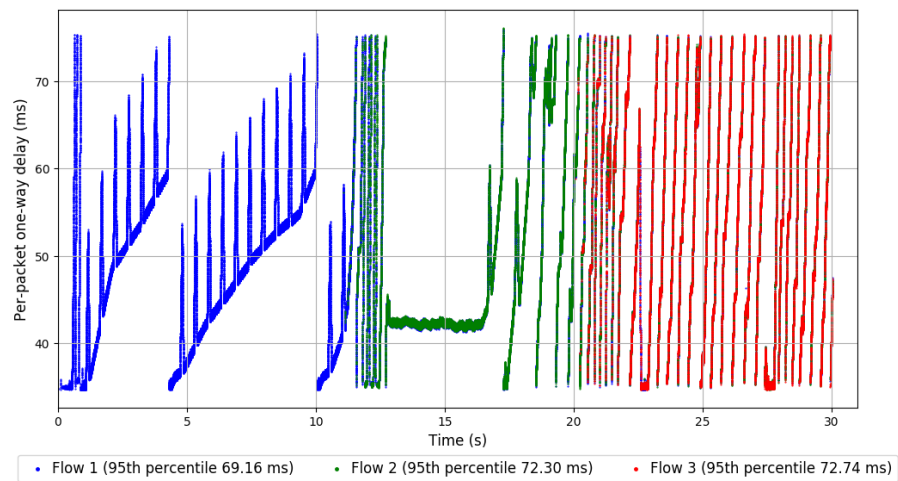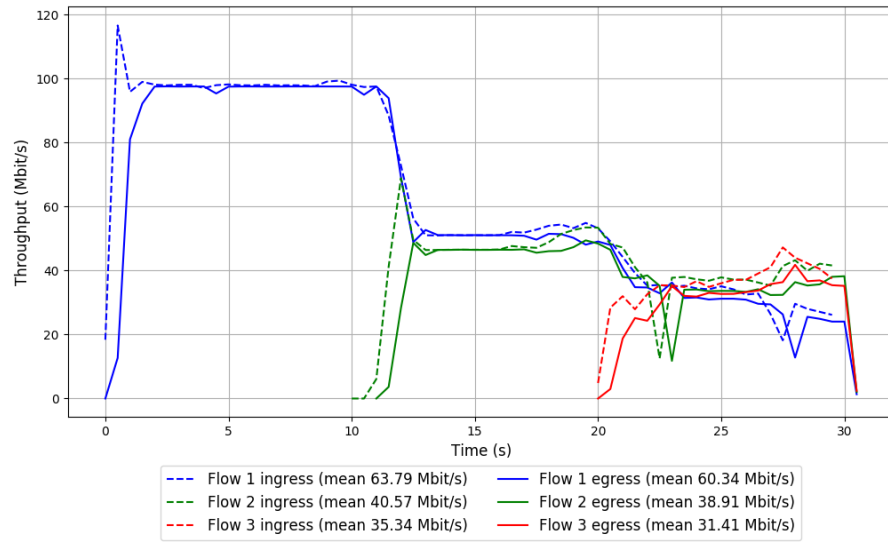
Run 3: Report of TCP BBR — Data Link

- - - Flow 1 ingress (mean 67.59 Mbit/s) —— Flow 1 egress (mean 63.60 Mbit/s)
- - - Flow 2 ingress (mean 35.53 Mbit/s) —— Flow 2 egress (mean 32.31 Mbit/s)
- - - Flow 3 ingress (mean 34.56 Mbit/s) —— Flow 3 egress (mean 30.69 Mbit/s)

- Flow 1 (95th percentile 70.39 ms) - Flow 2 (95th percentile 72.12 ms) - Flow 3 (95th percentile 72.76 ms)

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Run 4: Statistics of TCP BBR

Start at: 2020-02-18 03:20:08
End at: 2020-02-18 03:20:38
Local clock offset: 3.528 ms
Remote clock offset: 6.268 ms


# Below is generated by plot.py at 2020-02-18 03:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 71.906 ms
Loss rate: 8.19%
-- Flow 1:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 71.404 ms
Loss rate: 6.67%
-- Flow 2:
Average throughput: 29.93 Mbit/s
95th percentile per-packet one-way delay: 72.740 ms
Loss rate: 10.26%
-- Flow 3:
Average throughput: 40.78 Mbit/s
95th percentile per-packet one-way delay: 72.946 ms
Loss rate: 13.84%
```
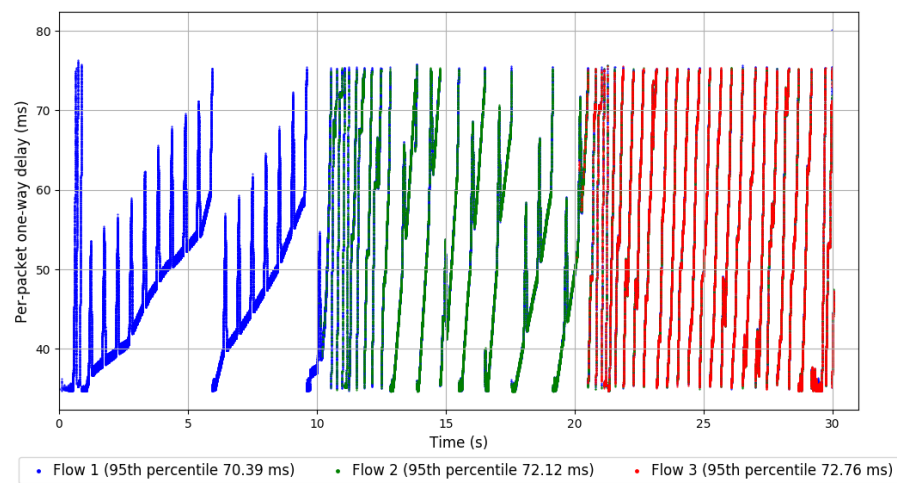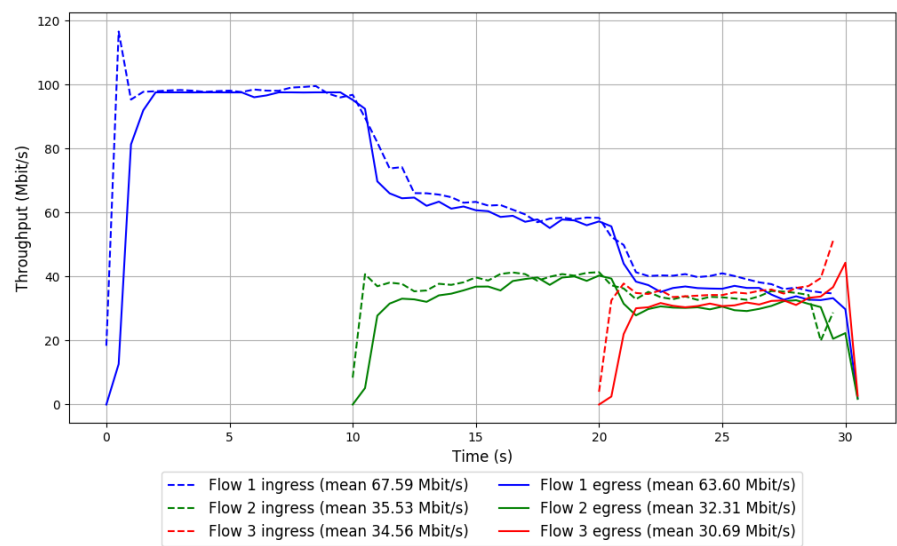
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2020-02-18 03:50:07
End at: 2020-02-18 03:50:37
Local clock offset: 4.977 ms
Remote clock offset: 6.408 ms


# Below is generated by plot.py at 2020-02-18 03:56:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.67 Mbit/s
95th percentile per-packet one-way delay: 70.793 ms
Loss rate: 8.98%
-- Flow 1:
Average throughput: 58.97 Mbit/s
95th percentile per-packet one-way delay: 69.166 ms
Loss rate: 6.47%
-- Flow 2:
Average throughput: 33.43 Mbit/s
95th percentile per-packet one-way delay: 71.876 ms
Loss rate: 10.41%
-- Flow 3:
Average throughput: 43.50 Mbit/s
95th percentile per-packet one-way delay: 72.753 ms
Loss rate: 16.08%
```
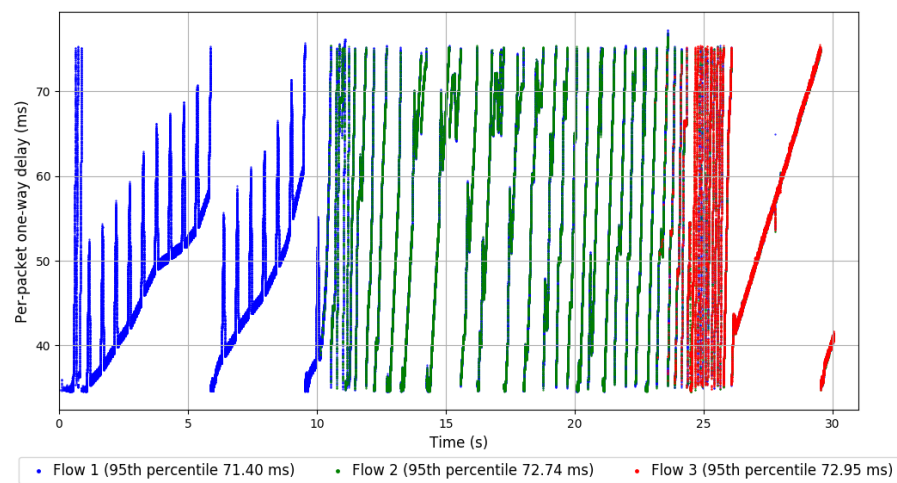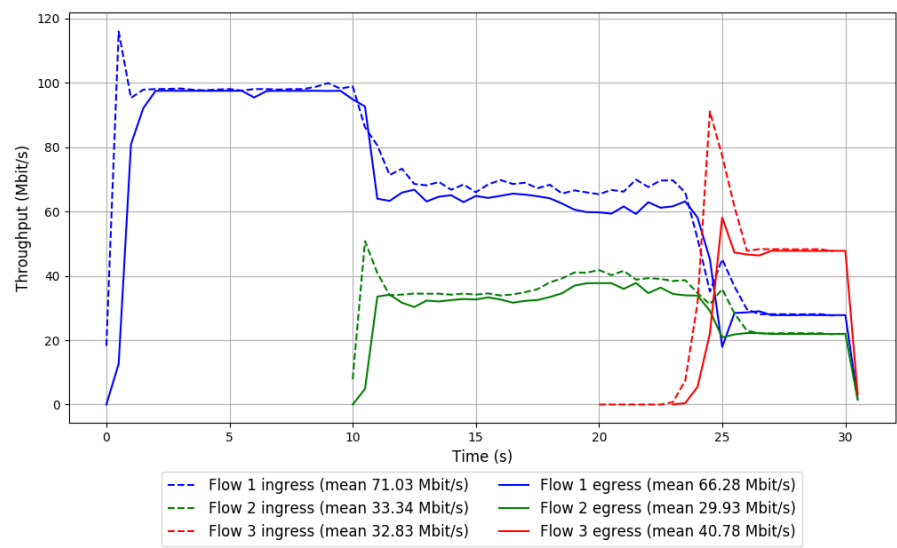
Run 5: Report of TCP BBR — Data Link

```
Run 1: Statistics of Copa

Start at: 2020-02-18 01:39:18
End at: 2020-02-18 01:39:48
Local clock offset: 3.689 ms
Remote clock offset: 5.742 ms


# Below is generated by plot.py at 2020-02-18 03:56:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 35.112 ms
Loss rate: 71.58%
-- Flow 1:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 35.301 ms
Loss rate: 70.44%
-- Flow 2:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 34.826 ms
Loss rate: 73.82%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 35.052 ms
Loss rate: 94.30%
```
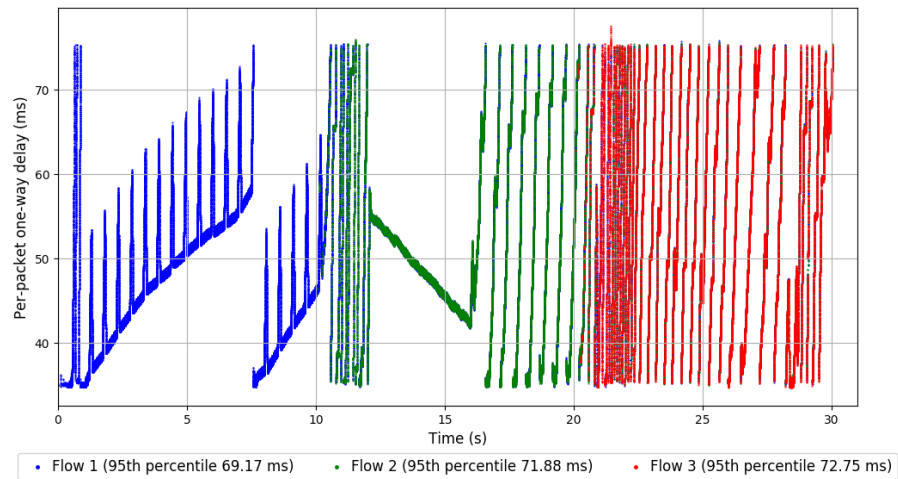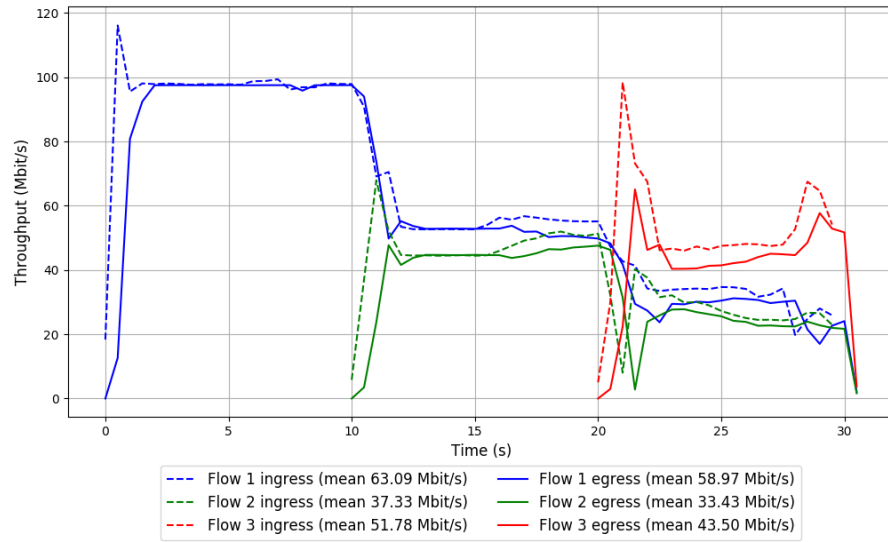
Run 1: Report of Copa — Data Link

- - - Flow 1 ingress (mean 29.53 Mbit/s) —— Flow 1 egress (mean 8.73 Mbit/s)
- - - Flow 2 ingress (mean 22.23 Mbit/s) —— Flow 2 egress (mean 5.82 Mbit/s)
- - - Flow 3 ingress (mean 0.08 Mbit/s) —— Flow 3 egress (mean 0.01 Mbit/s)

• Flow 1 (95th percentile 35.30 ms)   • Flow 2 (95th percentile 34.83 ms)   • Flow 3 (95th percentile 35.05 ms)

```
Run 2: Statistics of Copa

Start at: 2020-02-18 02:11:27
End at: 2020-02-18 02:11:57
Local clock offset: 4.528 ms
Remote clock offset: 6.199 ms


# Below is generated by plot.py at 2020-02-18 03:56:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 35.334 ms
Loss rate: 70.49%
-- Flow 1:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 35.468 ms
Loss rate: 70.03%
-- Flow 2:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 35.054 ms
Loss rate: 71.57%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 35.289 ms
Loss rate: 93.52%
```
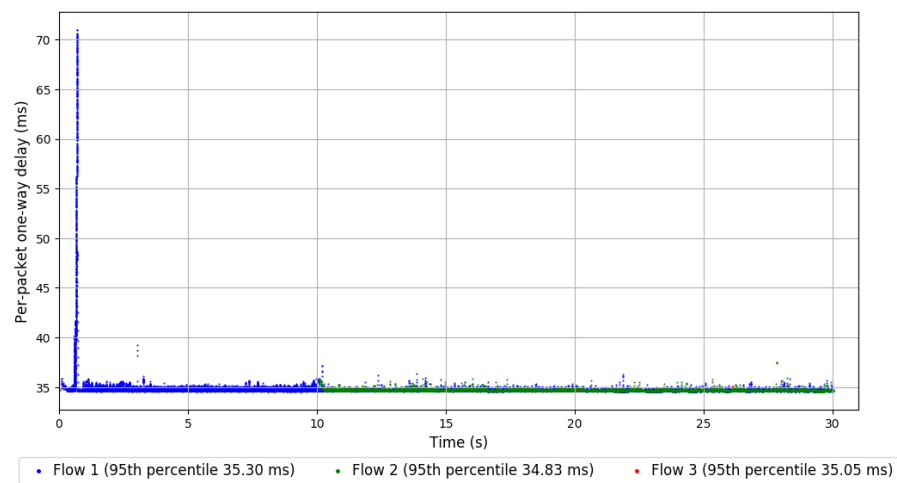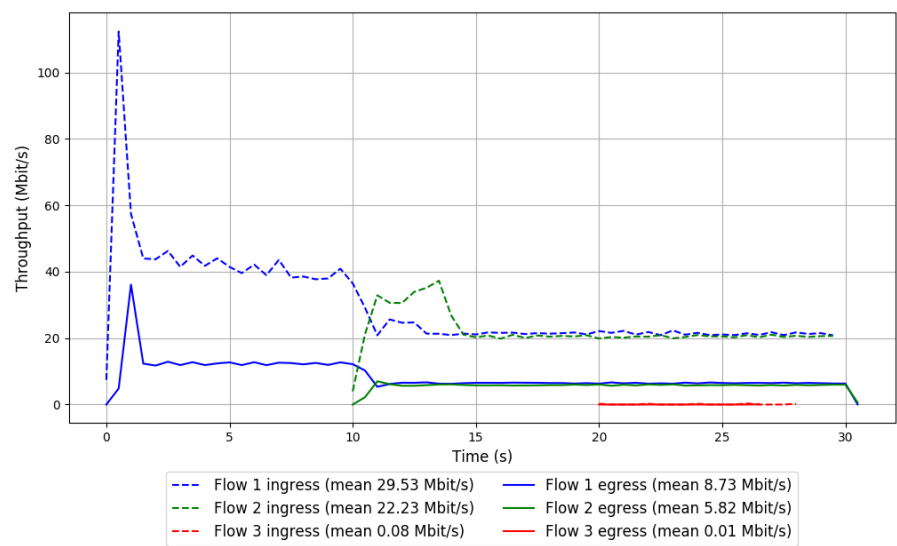
Run 2: Report of Copa — Data Link

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```
Run 3: Statistics of Copa

Start at: 2020-02-18 02:42:07
End at: 2020-02-18 02:42:37
Local clock offset: 4.963 ms
Remote clock offset: 6.106 ms


# Below is generated by plot.py at 2020-02-18 03:56:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 35.377 ms
Loss rate: 72.44%
-- Flow 1:
Average throughput: 9.10 Mbit/s
95th percentile per-packet one-way delay: 35.618 ms
Loss rate: 71.11%
-- Flow 2:
Average throughput: 5.27 Mbit/s
95th percentile per-packet one-way delay: 35.082 ms
Loss rate: 75.33%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 34.914 ms
Loss rate: 99.83%
```

Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2020-02-18 03:13:59
End at: 2020-02-18 03:14:29
Local clock offset: 3.686 ms
Remote clock offset: 6.183 ms


# Below is generated by plot.py at 2020-02-18 03:56:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 35.169 ms
Loss rate: 70.71%
-- Flow 1:
Average throughput: 8.72 Mbit/s
95th percentile per-packet one-way delay: 35.416 ms
Loss rate: 70.26%
-- Flow 2:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 34.918 ms
Loss rate: 71.62%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 35.024 ms
Loss rate: 92.19%
```
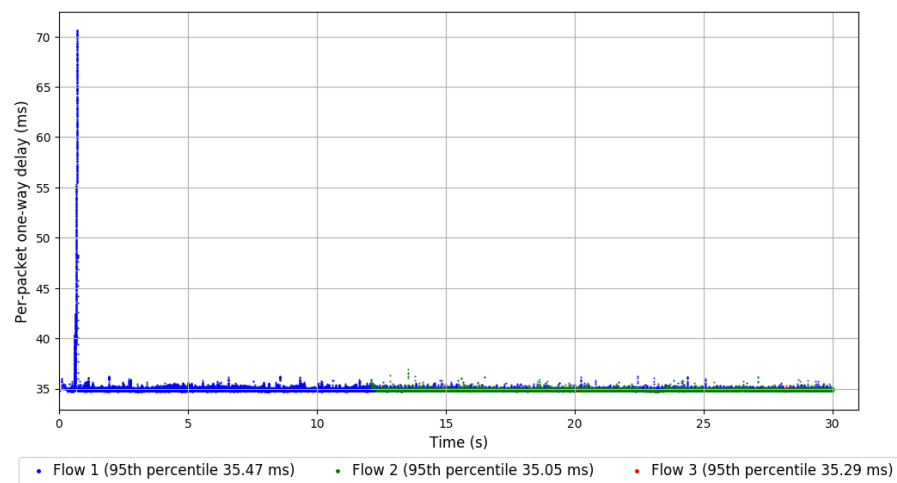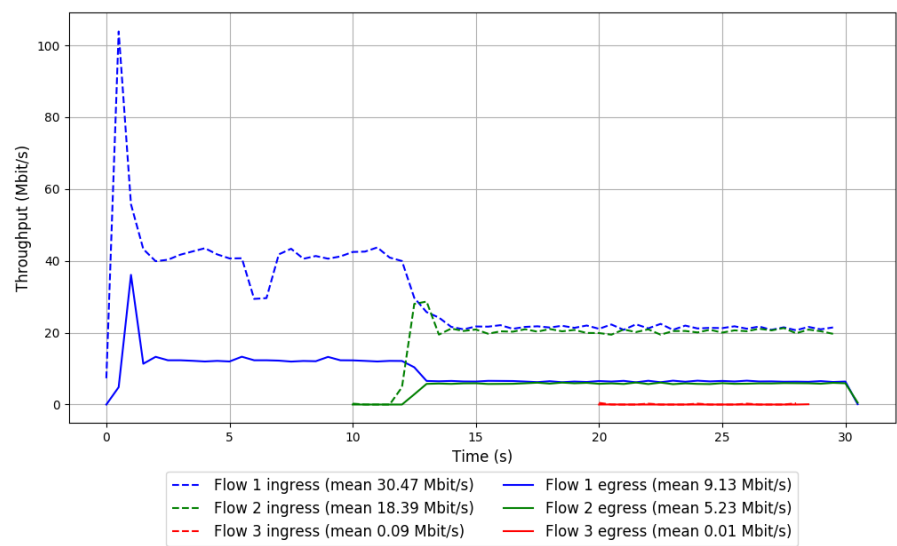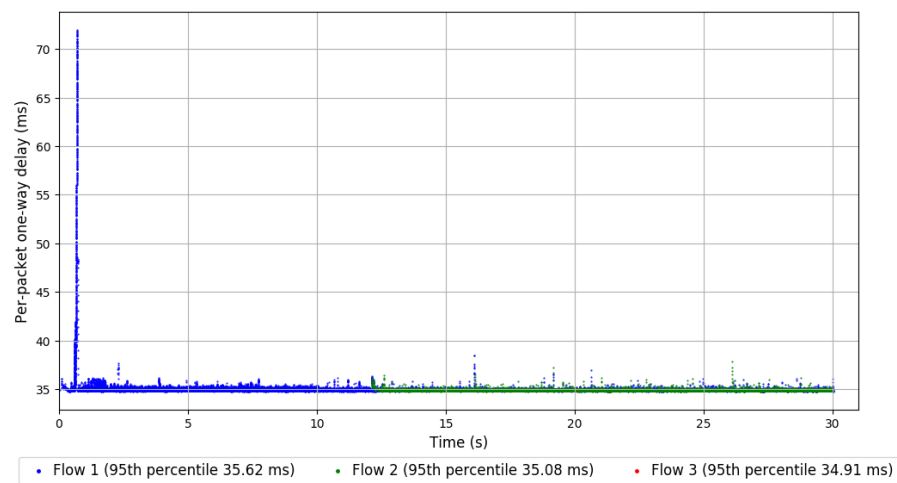
Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 29.32 Mbit/s)　　　Flow 1 egress (mean 8.72 Mbit/s)
Flow 2 ingress (mean 20.57 Mbit/s)　　　Flow 2 egress (mean 5.84 Mbit/s)
Flow 3 ingress (mean 0.09 Mbit/s)　　　Flow 3 egress (mean 0.03 Mbit/s)

Flow 1 (95th percentile 35.42 ms)　　　Flow 2 (95th percentile 34.92 ms)　　　Flow 3 (95th percentile 35.02 ms)

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```
Run 5: Statistics of Copa

Start at: 2020-02-18 03:44:10
End at: 2020-02-18 03:44:40
Local clock offset: 4.811 ms
Remote clock offset: 6.393 ms


# Below is generated by plot.py at 2020-02-18 03:56:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 35.269 ms
Loss rate: 71.37%
-- Flow 1:
Average throughput: 9.09 Mbit/s
95th percentile per-packet one-way delay: 35.424 ms
Loss rate: 70.86%
-- Flow 2:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 35.008 ms
Loss rate: 72.58%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 34.883 ms
Loss rate: 97.92%
```
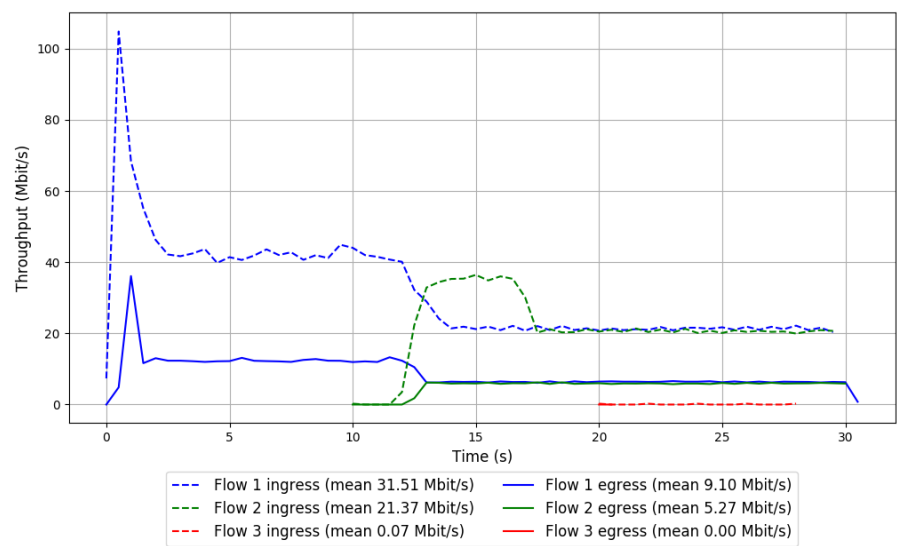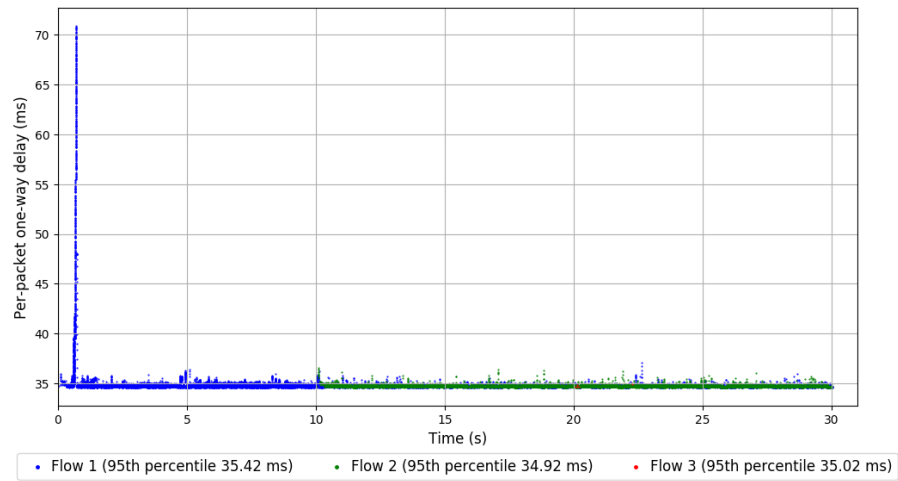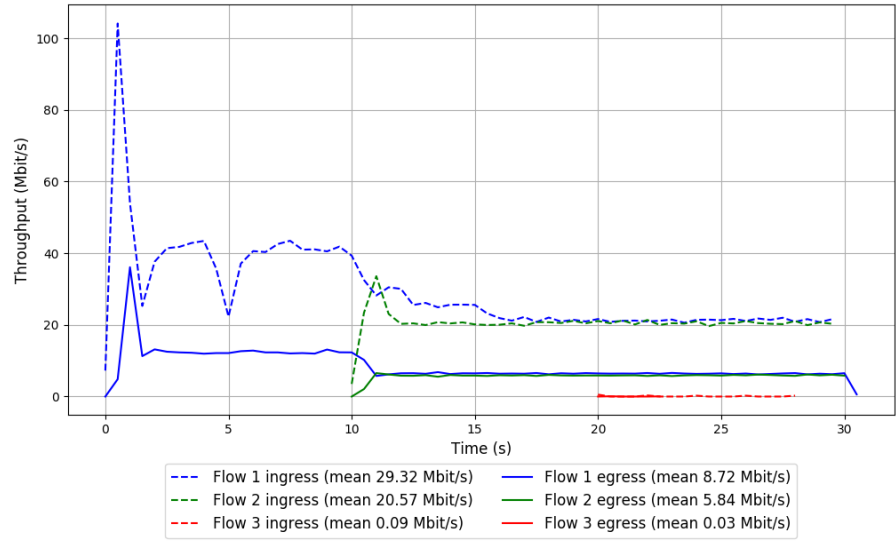
Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 31.18 Mbit/s) Flow 1 egress (mean 9.09 Mbit/s)
Flow 2 ingress (mean 19.29 Mbit/s) Flow 2 egress (mean 5.29 Mbit/s)
Flow 3 ingress (mean 0.08 Mbit/s)   Flow 3 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 35.42 ms)   Flow 2 (95th percentile 35.01 ms)   Flow 3 (95th percentile 34.88 ms)

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```
Run 1: Statistics of TCP Cubic

Start at: 2020-02-18 01:20:59
End at: 2020-02-18 01:21:29
Local clock offset: 4.766 ms
Remote clock offset: 5.329 ms


# Below is generated by plot.py at 2020-02-18 03:56:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 71.417 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 72.72 Mbit/s
95th percentile per-packet one-way delay: 71.664 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 70.385 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 21.87 Mbit/s
95th percentile per-packet one-way delay: 70.577 ms
Loss rate: 0.88%
```

Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2020-02-18 01:52:13
End at: 2020-02-18 01:52:43
Local clock offset: 3.226 ms
Remote clock offset: 5.858 ms


# Below is generated by plot.py at 2020-02-18 03:56:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.77 Mbit/s
95th percentile per-packet one-way delay: 70.508 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 70.999 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 25.22 Mbit/s
95th percentile per-packet one-way delay: 67.634 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 13.55 Mbit/s
95th percentile per-packet one-way delay: 50.164 ms
Loss rate: 0.91%
```
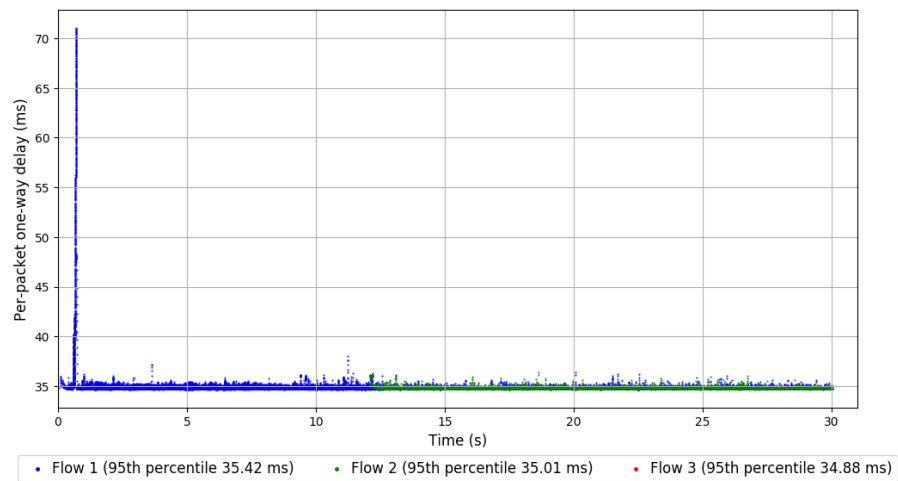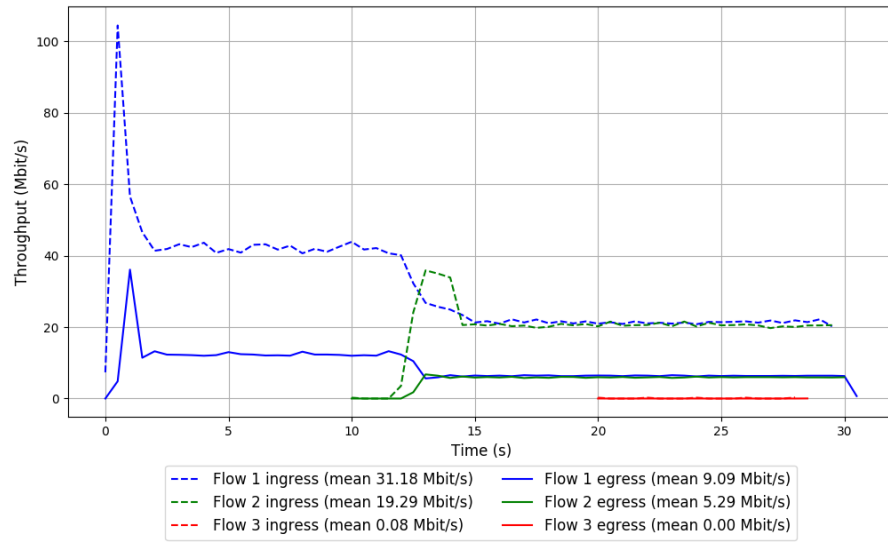
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2020-02-18 02:24:10
End at: 2020-02-18 02:24:40
Local clock offset: 4.883 ms
Remote clock offset: 6.109 ms


# Below is generated by plot.py at 2020-02-18 03:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 69.241 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 77.41 Mbit/s
95th percentile per-packet one-way delay: 68.741 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 70.851 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 70.641 ms
Loss rate: 0.91%
```
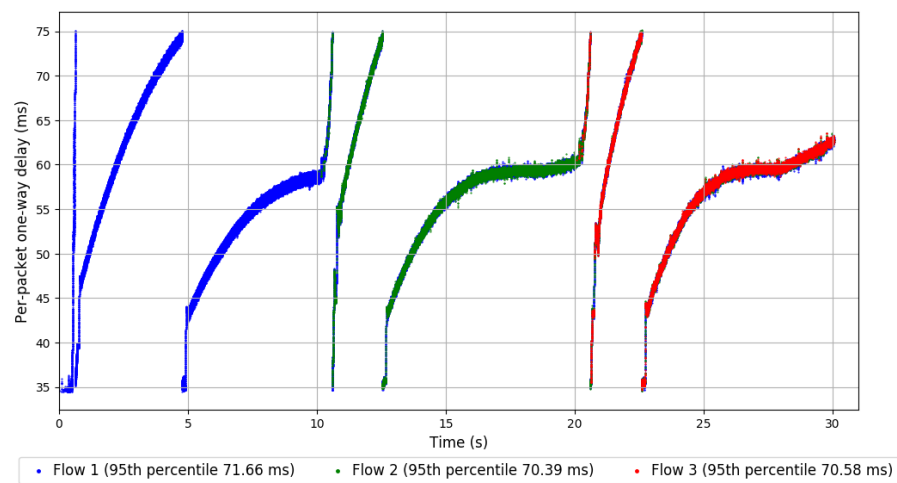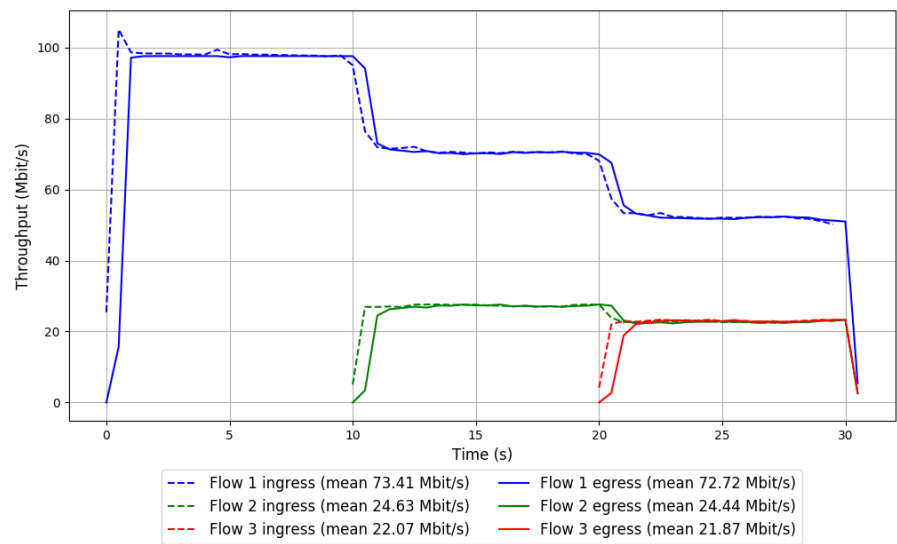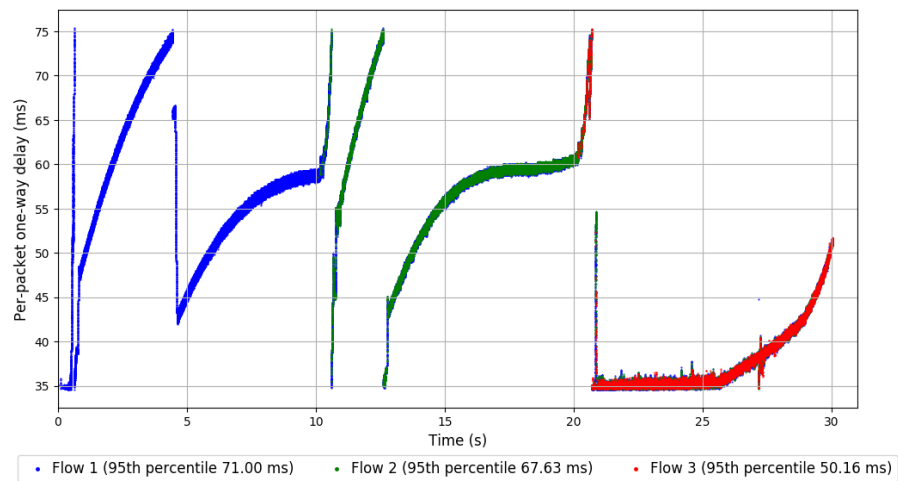
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 78.21 Mbit/s) — — — Flow 1 egress (mean 77.41 Mbit/s)
Flow 2 ingress (mean 17.11 Mbit/s) — — — Flow 2 egress (mean 17.00 Mbit/s)
Flow 3 ingress (mean 22.87 Mbit/s) — — — Flow 3 egress (mean 22.65 Mbit/s)

Flow 1 (95th percentile 68.74 ms)   Flow 2 (95th percentile 70.85 ms)   Flow 3 (95th percentile 70.64 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2020-02-18 02:55:33
End at: 2020-02-18 02:56:03
Local clock offset: 5.056 ms
Remote clock offset: 6.136 ms


# Below is generated by plot.py at 2020-02-18 03:57:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 69.270 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 79.48 Mbit/s
95th percentile per-packet one-way delay: 69.039 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 13.72 Mbit/s
95th percentile per-packet one-way delay: 70.458 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 69.717 ms
Loss rate: 0.49%
```
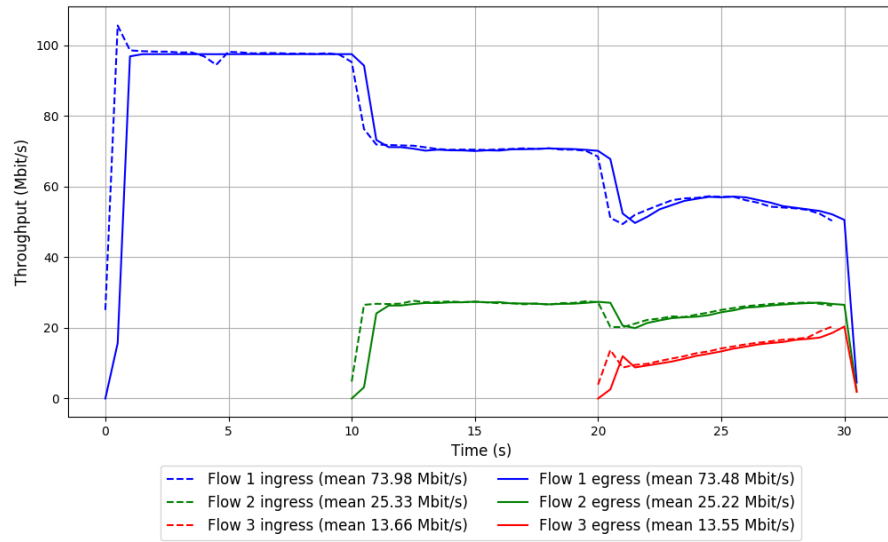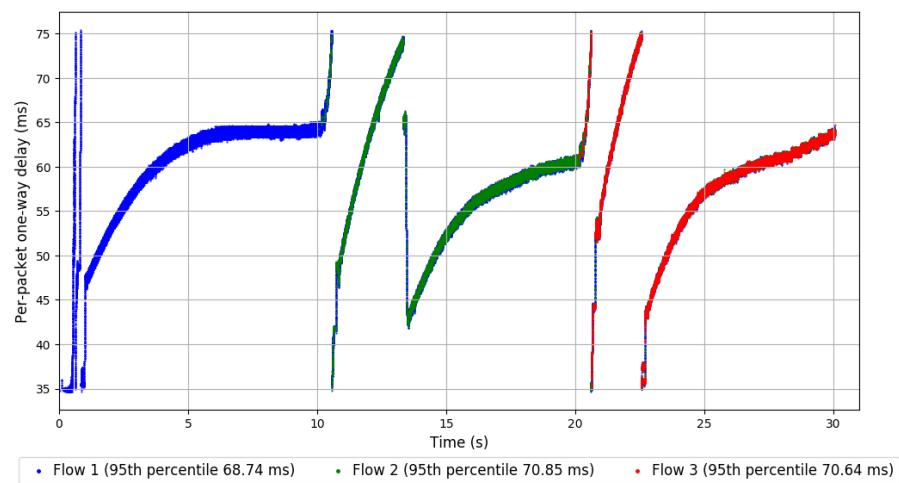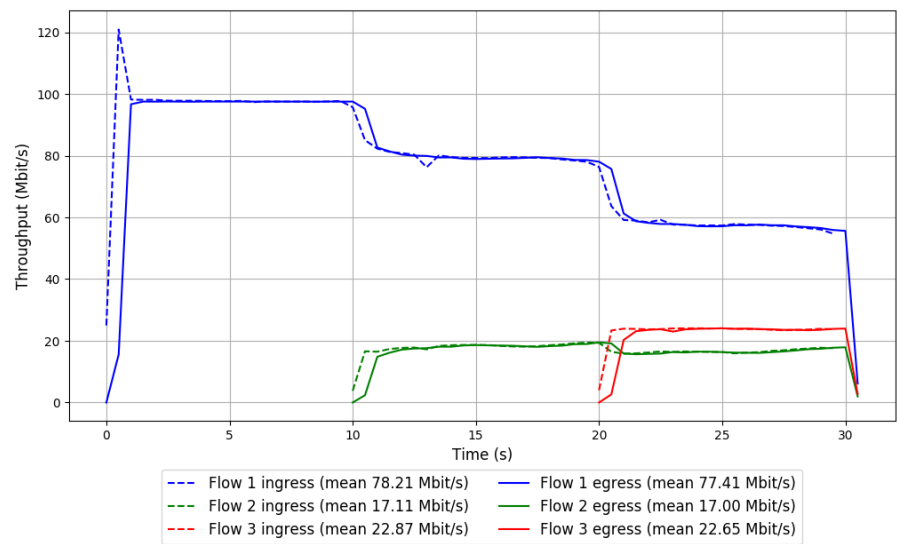
Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 80.12 Mbit/s)   Flow 1 egress (mean 79.48 Mbit/s)
Flow 2 ingress (mean 13.79 Mbit/s)   Flow 2 egress (mean 13.72 Mbit/s)
Flow 3 ingress (mean 23.17 Mbit/s)   Flow 3 egress (mean 23.05 Mbit/s)

Flow 1 (95th percentile 69.04 ms)   Flow 2 (95th percentile 70.46 ms)   Flow 3 (95th percentile 69.72 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2020-02-18 03:26:28
End at: 2020-02-18 03:26:58
Local clock offset: 3.372 ms
Remote clock offset: 6.393 ms


# Below is generated by plot.py at 2020-02-18 03:57:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 70.356 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 71.86 Mbit/s
95th percentile per-packet one-way delay: 70.561 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 25.76 Mbit/s
95th percentile per-packet one-way delay: 70.053 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 21.79 Mbit/s
95th percentile per-packet one-way delay: 69.258 ms
Loss rate: 0.63%
```
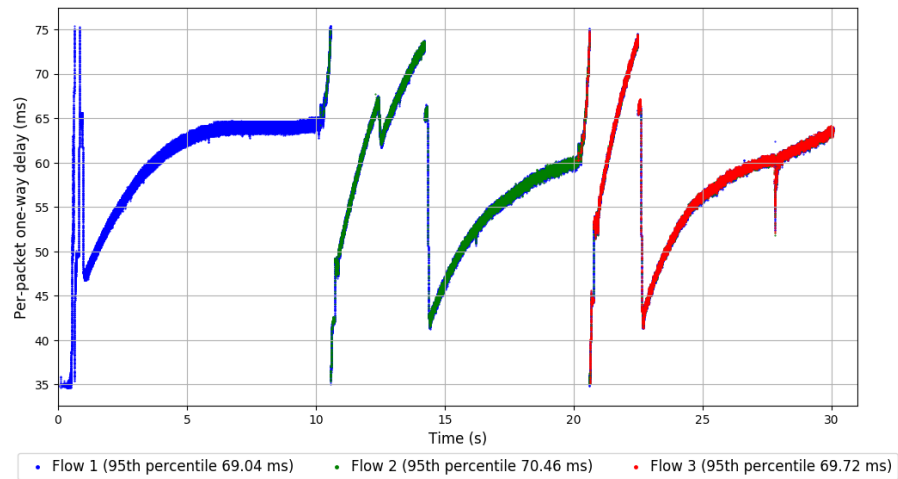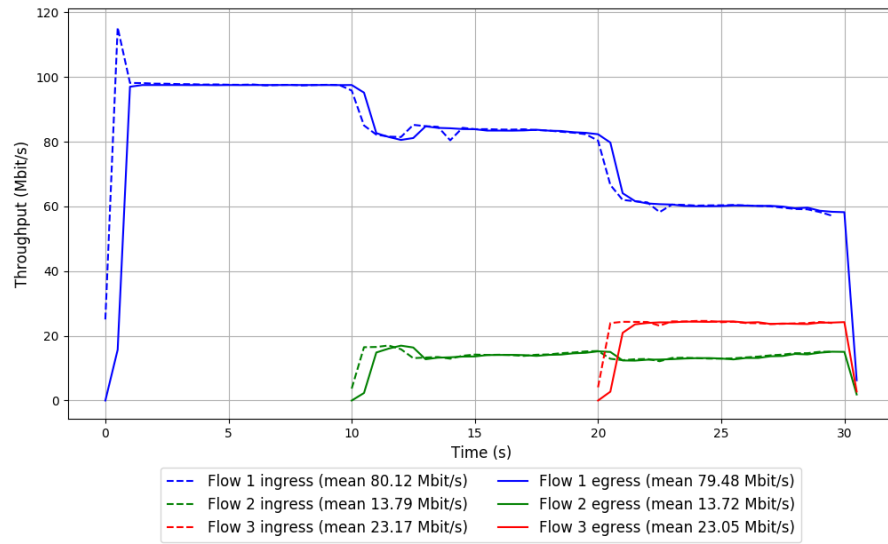
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 72.32 Mbit/s) --- Flow 1 egress (mean 71.86 Mbit/s) ---
Flow 2 ingress (mean 25.87 Mbit/s) --- Flow 2 egress (mean 25.76 Mbit/s) ---
Flow 3 ingress (mean 21.93 Mbit/s) --- Flow 3 egress (mean 21.79 Mbit/s) ---

Flow 1 (95th percentile 70.56 ms)   Flow 2 (95th percentile 70.05 ms)   Flow 3 (95th percentile 69.26 ms)

```
Run 1: Statistics of FillP

Start at: 2020-02-18 01:41:39
End at: 2020-02-18 01:42:09
Local clock offset: 3.582 ms
Remote clock offset: 5.82 ms


# Below is generated by plot.py at 2020-02-18 03:57:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 71.913 ms
Loss rate: 37.85%
-- Flow 1:
Average throughput: 59.06 Mbit/s
95th percentile per-packet one-way delay: 70.018 ms
Loss rate: 29.57%
-- Flow 2:
Average throughput: 43.07 Mbit/s
95th percentile per-packet one-way delay: 73.536 ms
Loss rate: 47.56%
-- Flow 3:
Average throughput: 14.20 Mbit/s
95th percentile per-packet one-way delay: 73.379 ms
Loss rate: 53.68%
```
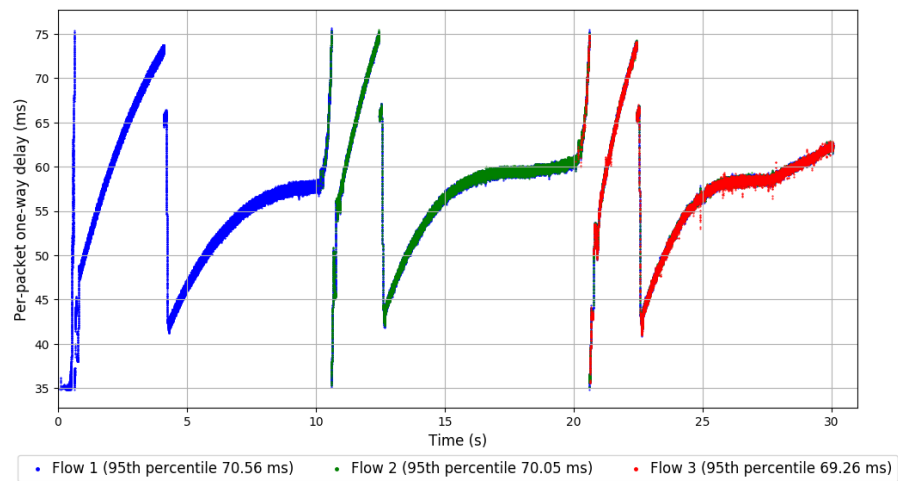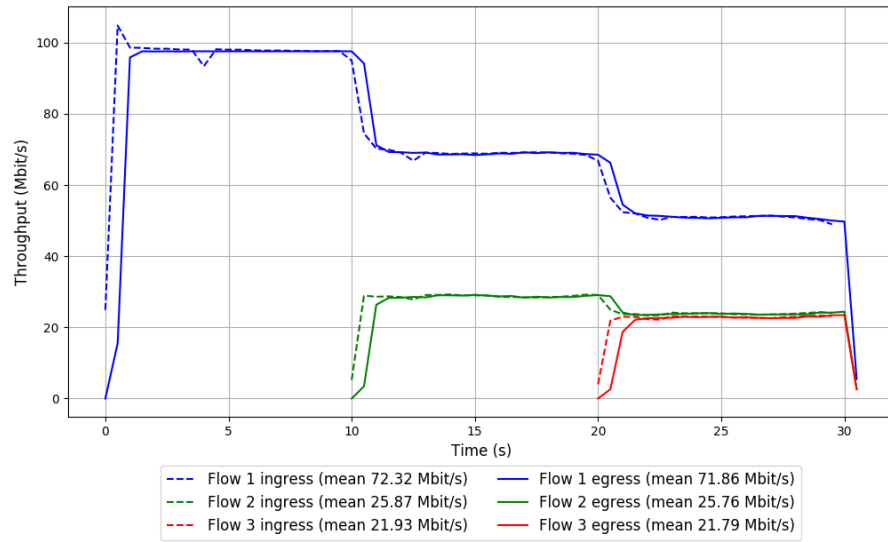
Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 83.85 Mbit/s)
Flow 2 ingress (mean 82.27 Mbit/s)
Flow 3 ingress (mean 30.69 Mbit/s)
Flow 1 egress (mean 59.06 Mbit/s)
Flow 2 egress (mean 43.07 Mbit/s)
Flow 3 egress (mean 14.20 Mbit/s)

Flow 1 (95th percentile 70.02 ms)
Flow 2 (95th percentile 73.54 ms)
Flow 3 (95th percentile 73.38 ms)

```
Run 2: Statistics of FillP

Start at: 2020-02-18 02:13:53
End at: 2020-02-18 02:14:23
Local clock offset: 4.611 ms
Remote clock offset: 6.296 ms


# Below is generated by plot.py at 2020-02-18 03:57:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 72.398 ms
Loss rate: 38.62%
-- Flow 1:
Average throughput: 57.46 Mbit/s
95th percentile per-packet one-way delay: 71.102 ms
Loss rate: 28.85%
-- Flow 2:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: 73.562 ms
Loss rate: 48.50%
-- Flow 3:
Average throughput: 25.23 Mbit/s
95th percentile per-packet one-way delay: 72.961 ms
Loss rate: 53.72%
```
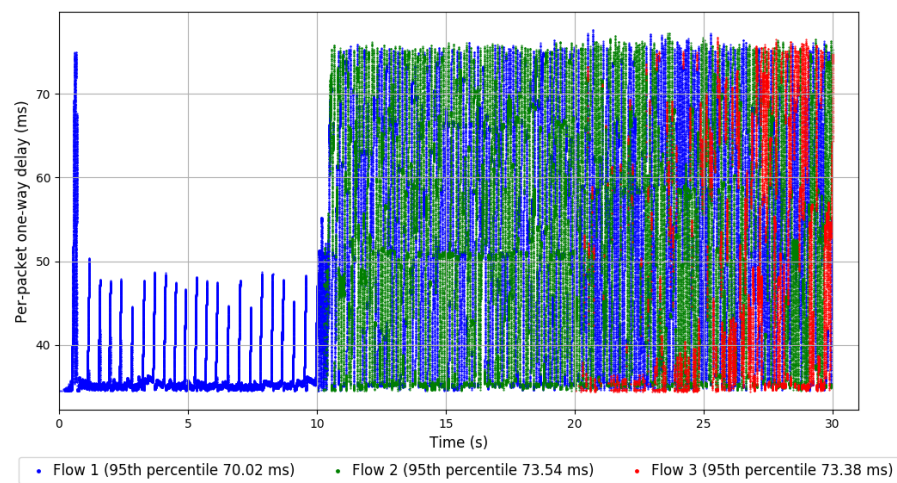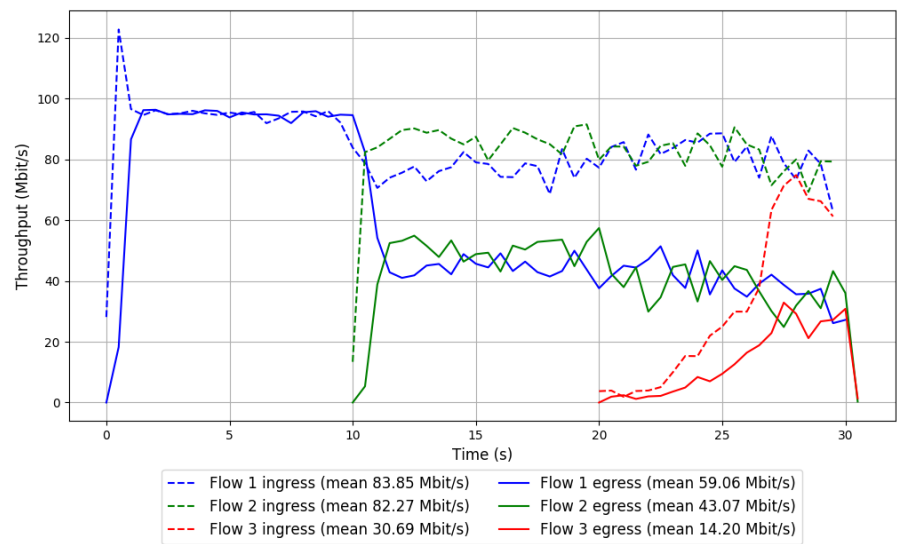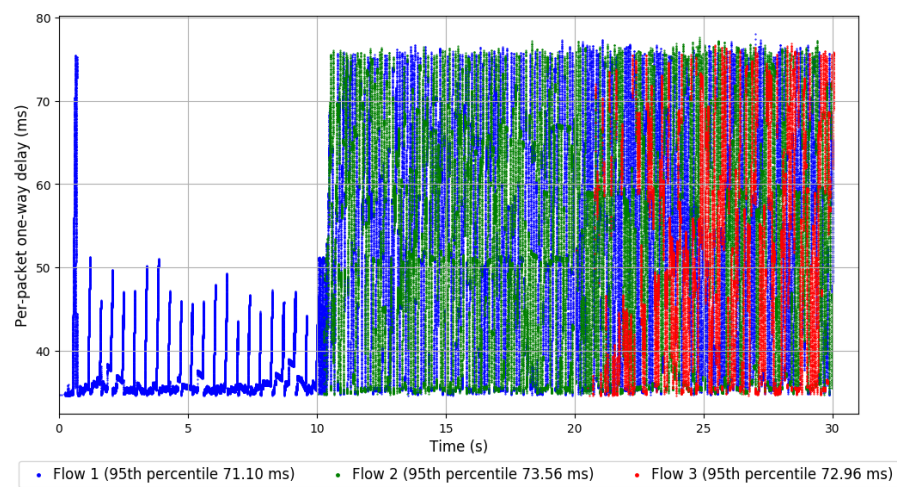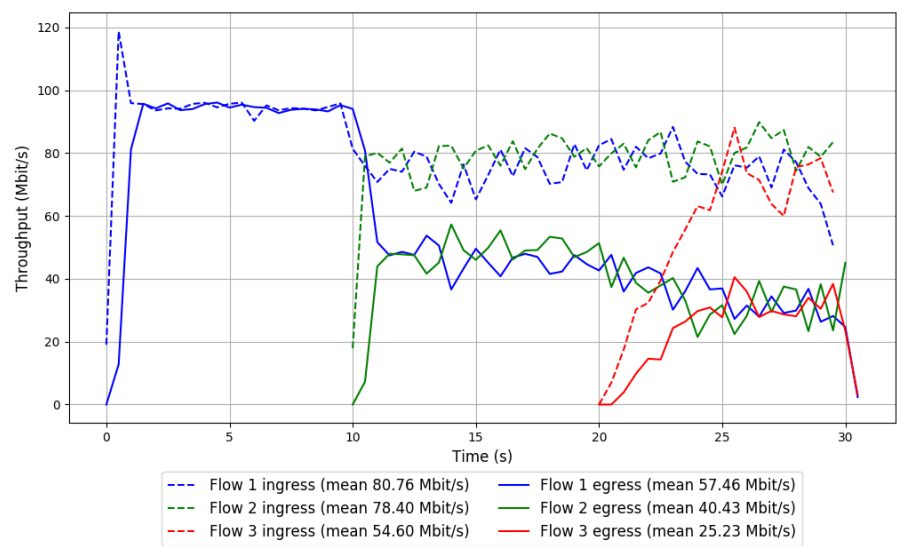
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2020-02-18 02:44:28
End at: 2020-02-18 02:44:58
Local clock offset: 4.989 ms
Remote clock offset: 6.058 ms


# Below is generated by plot.py at 2020-02-18 03:57:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 72.044 ms
Loss rate: 39.08%
-- Flow 1:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 70.867 ms
Loss rate: 29.80%
-- Flow 2:
Average throughput: 40.29 Mbit/s
95th percentile per-packet one-way delay: 72.803 ms
Loss rate: 47.90%
-- Flow 3:
Average throughput: 25.53 Mbit/s
95th percentile per-packet one-way delay: 73.280 ms
Loss rate: 55.50%
```

Run 3: Report of FillP — Data Link

- - - Flow 1 ingress (mean 82.65 Mbit/s)   —— Flow 1 egress (mean 58.07 Mbit/s)
- - - Flow 2 ingress (mean 77.30 Mbit/s)   —— Flow 2 egress (mean 40.29 Mbit/s)
- - - Flow 3 ingress (mean 57.31 Mbit/s)   —— Flow 3 egress (mean 25.53 Mbit/s)

• Flow 1 (95th percentile 70.87 ms)   • Flow 2 (95th percentile 72.80 ms)   • Flow 3 (95th percentile 73.28 ms)

40

```
Run 4: Statistics of FillP

Start at: 2020-02-18 03:16:20
End at: 2020-02-18 03:16:50
Local clock offset: 3.636 ms
Remote clock offset: 6.144 ms


# Below is generated by plot.py at 2020-02-18 03:58:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 72.197 ms
Loss rate: 38.23%
-- Flow 1:
Average throughput: 57.56 Mbit/s
95th percentile per-packet one-way delay: 71.233 ms
Loss rate: 29.39%
-- Flow 2:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 73.710 ms
Loss rate: 46.32%
-- Flow 3:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 71.710 ms
Loss rate: 54.94%
```
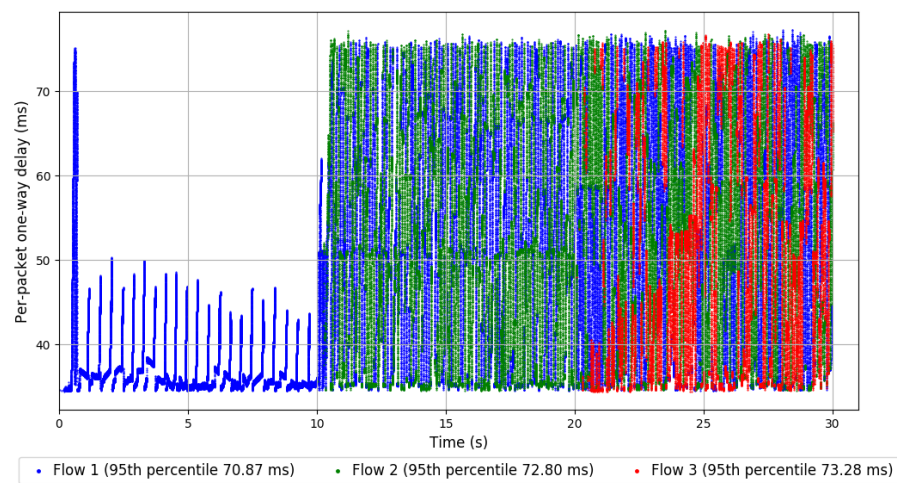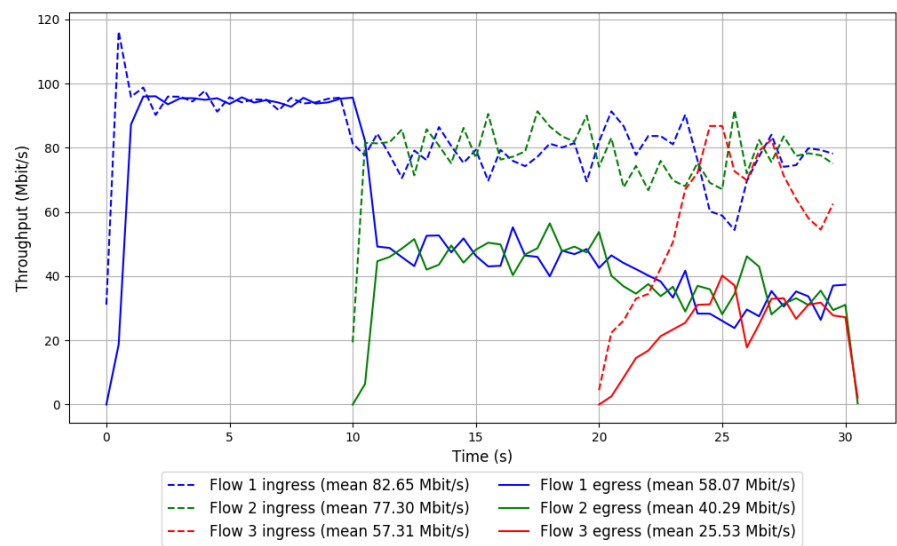
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 81.48 Mbit/s)   Flow 1 egress (mean 57.56 Mbit/s)
Flow 2 ingress (mean 77.78 Mbit/s)   Flow 2 egress (mean 41.75 Mbit/s)
Flow 3 ingress (mean 54.34 Mbit/s)   Flow 3 egress (mean 24.65 Mbit/s)

Flow 1 (95th percentile 71.23 ms)   Flow 2 (95th percentile 73.71 ms)   Flow 3 (95th percentile 71.71 ms)

```
Run 5: Statistics of FillP

Start at: 2020-02-18 03:46:30
End at: 2020-02-18 03:47:00
Local clock offset: 4.865 ms
Remote clock offset: 6.448 ms


# Below is generated by plot.py at 2020-02-18 03:58:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.56 Mbit/s
95th percentile per-packet one-way delay: 72.166 ms
Loss rate: 38.54%
-- Flow 1:
Average throughput: 58.06 Mbit/s
95th percentile per-packet one-way delay: 70.740 ms
Loss rate: 30.07%
-- Flow 2:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 73.038 ms
Loss rate: 47.24%
-- Flow 3:
Average throughput: 21.21 Mbit/s
95th percentile per-packet one-way delay: 73.487 ms
Loss rate: 54.76%
```
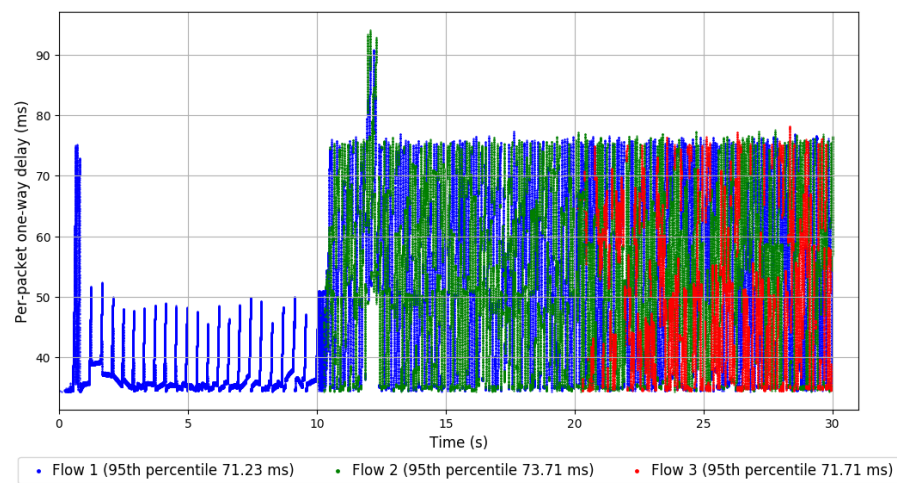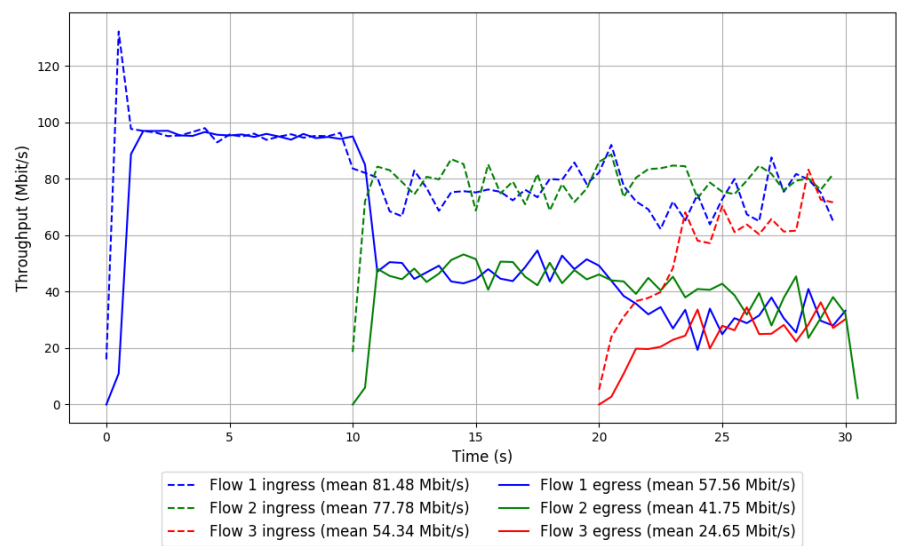
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 83.08 Mbit/s) --- Flow 1 egress (mean 58.06 Mbit/s)
Flow 2 ingress (mean 78.83 Mbit/s) --- Flow 2 egress (mean 41.53 Mbit/s)
Flow 3 ingress (mean 45.89 Mbit/s) --- Flow 3 egress (mean 21.21 Mbit/s)

Flow 1 (95th percentile 70.74 ms)   Flow 2 (95th percentile 73.04 ms)   Flow 3 (95th percentile 73.49 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2020-02-18 01:27:36
End at: 2020-02-18 01:28:06
Local clock offset: 4.802 ms
Remote clock offset: 5.532 ms


# Below is generated by plot.py at 2020-02-18 03:58:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.09 Mbit/s
95th percentile per-packet one-way delay: 69.342 ms
Loss rate: 12.86%
-- Flow 1:
Average throughput: 56.33 Mbit/s
95th percentile per-packet one-way delay: 68.060 ms
Loss rate: 9.60%
-- Flow 2:
Average throughput: 39.49 Mbit/s
95th percentile per-packet one-way delay: 71.148 ms
Loss rate: 17.66%
-- Flow 3:
Average throughput: 22.60 Mbit/s
95th percentile per-packet one-way delay: 69.542 ms
Loss rate: 18.28%
```
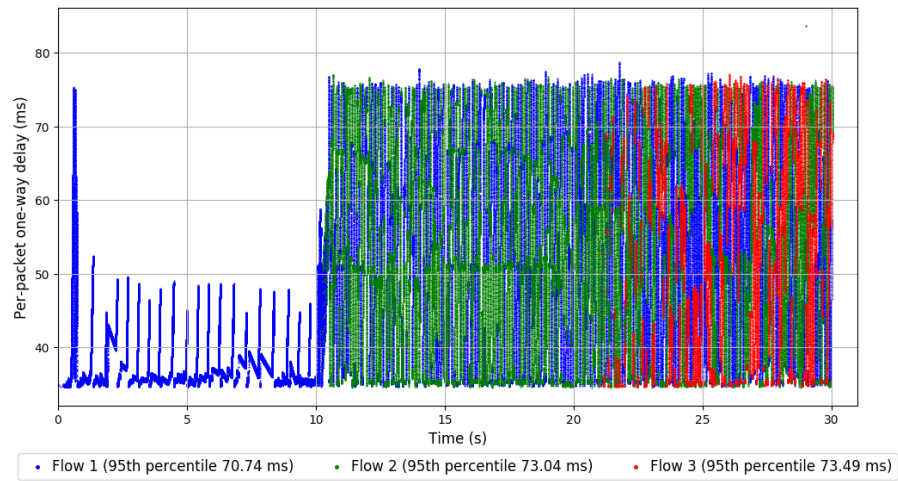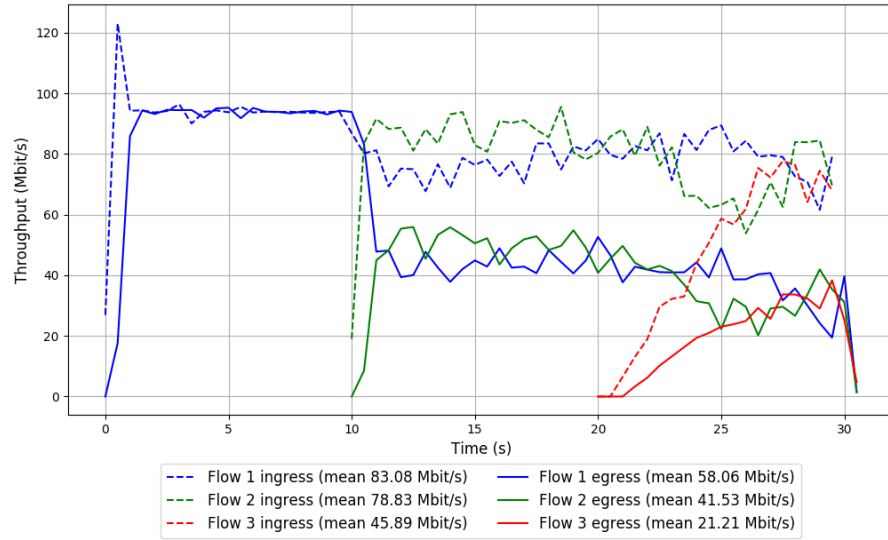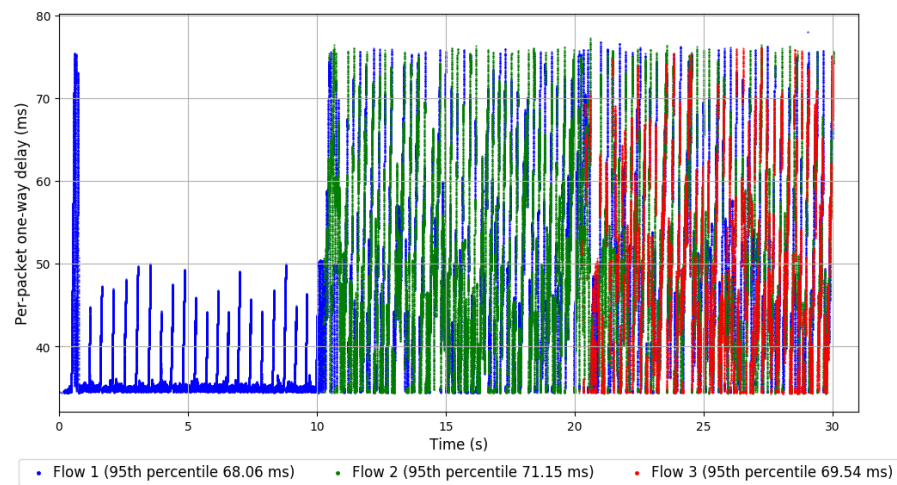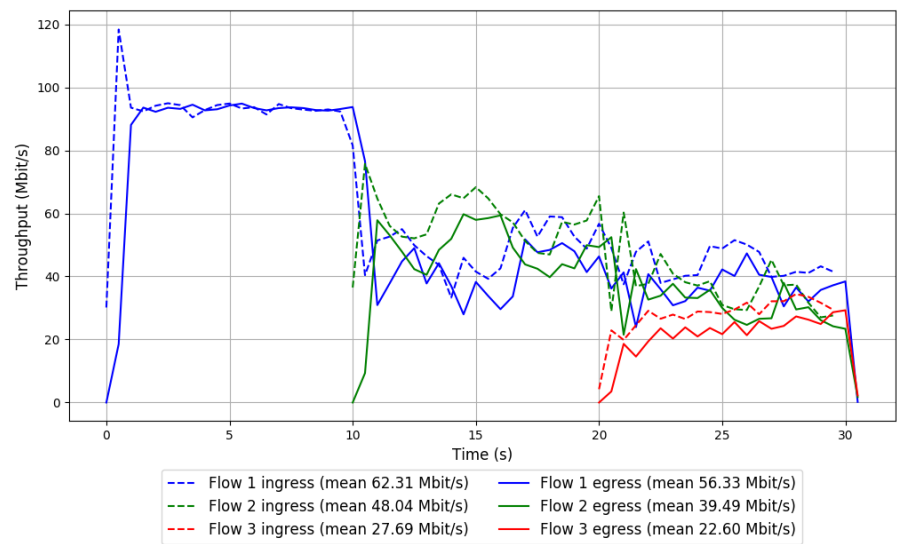
Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 62.31 Mbit/s) — — — Flow 1 egress (mean 56.33 Mbit/s)
Flow 2 ingress (mean 48.04 Mbit/s) — — — Flow 2 egress (mean 39.49 Mbit/s)
Flow 3 ingress (mean 27.69 Mbit/s) — — — Flow 3 egress (mean 22.60 Mbit/s)

Flow 1 (95th percentile 68.06 ms)   Flow 2 (95th percentile 71.15 ms)   Flow 3 (95th percentile 69.54 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2020-02-18 01:59:40
End at: 2020-02-18 02:00:10
Local clock offset: 3.387 ms
Remote clock offset: 5.985 ms


# Below is generated by plot.py at 2020-02-18 03:58:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 69.852 ms
Loss rate: 12.65%
-- Flow 1:
Average throughput: 49.34 Mbit/s
95th percentile per-packet one-way delay: 67.613 ms
Loss rate: 8.88%
-- Flow 2:
Average throughput: 46.11 Mbit/s
95th percentile per-packet one-way delay: 71.583 ms
Loss rate: 16.51%
-- Flow 3:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 70.640 ms
Loss rate: 17.27%
```
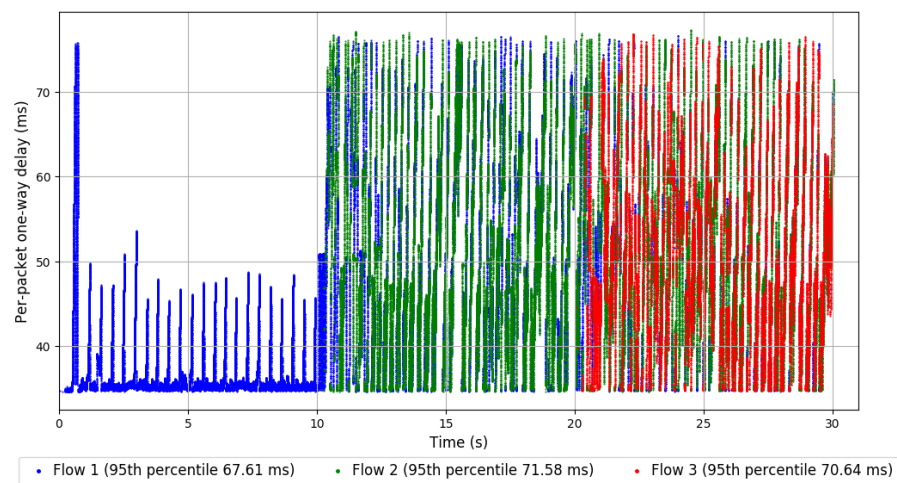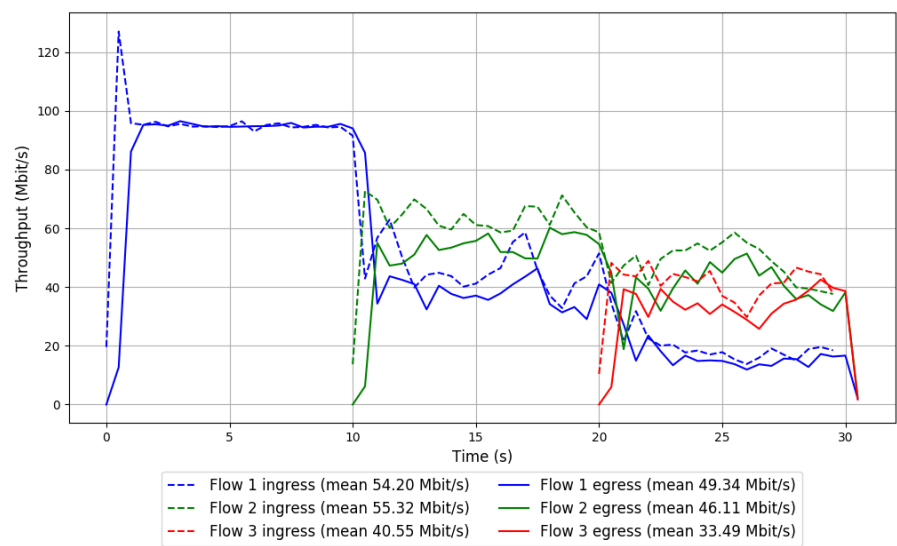
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2020-02-18 02:30:47
End at: 2020-02-18 02:31:17
Local clock offset: 4.905 ms
Remote clock offset: 5.979 ms


# Below is generated by plot.py at 2020-02-18 03:58:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 69.431 ms
Loss rate: 12.35%
-- Flow 1:
Average throughput: 58.25 Mbit/s
95th percentile per-packet one-way delay: 68.168 ms
Loss rate: 9.45%
-- Flow 2:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 71.244 ms
Loss rate: 17.31%
-- Flow 3:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 69.714 ms
Loss rate: 16.59%
```
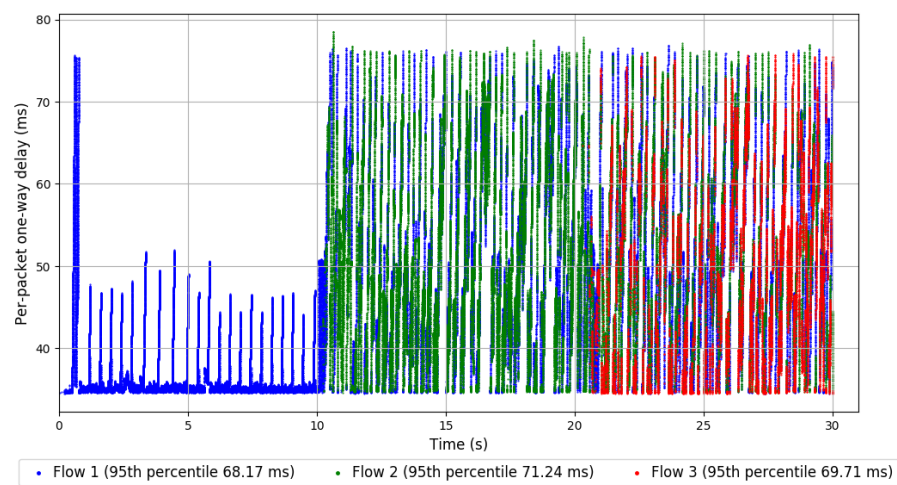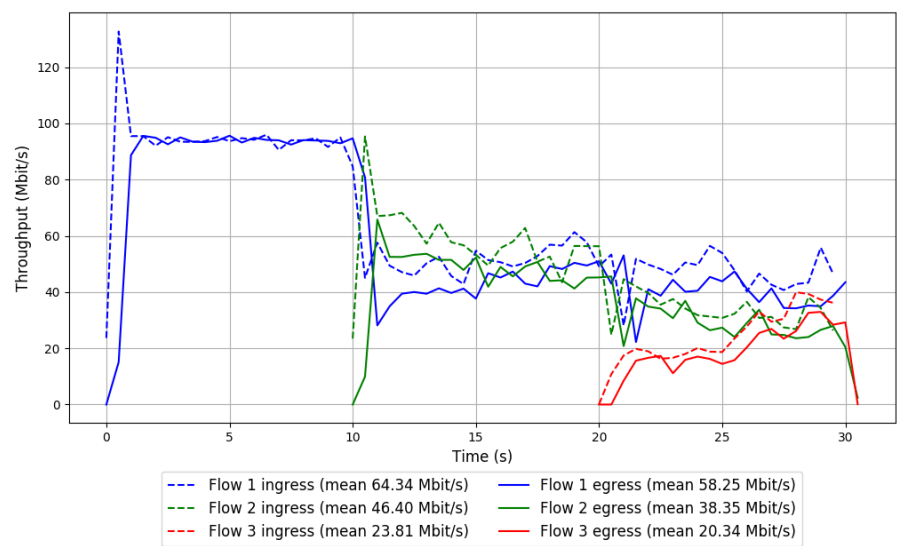
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 64.34 Mbit/s) --- Flow 1 egress (mean 58.25 Mbit/s)
Flow 2 ingress (mean 46.40 Mbit/s) --- Flow 2 egress (mean 38.35 Mbit/s)
Flow 3 ingress (mean 23.81 Mbit/s) --- Flow 3 egress (mean 20.34 Mbit/s)

Flow 1 (95th percentile 68.17 ms)   Flow 2 (95th percentile 71.24 ms)   Flow 3 (95th percentile 69.71 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2020-02-18 03:02:22
End at: 2020-02-18 03:02:52
Local clock offset: 4.43 ms
Remote clock offset: 6.153 ms


# Below is generated by plot.py at 2020-02-18 03:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.75 Mbit/s
95th percentile per-packet one-way delay: 70.086 ms
Loss rate: 12.97%
-- Flow 1:
Average throughput: 55.48 Mbit/s
95th percentile per-packet one-way delay: 69.187 ms
Loss rate: 9.71%
-- Flow 2:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 71.132 ms
Loss rate: 17.34%
-- Flow 3:
Average throughput: 31.39 Mbit/s
95th percentile per-packet one-way delay: 70.476 ms
Loss rate: 18.39%
```
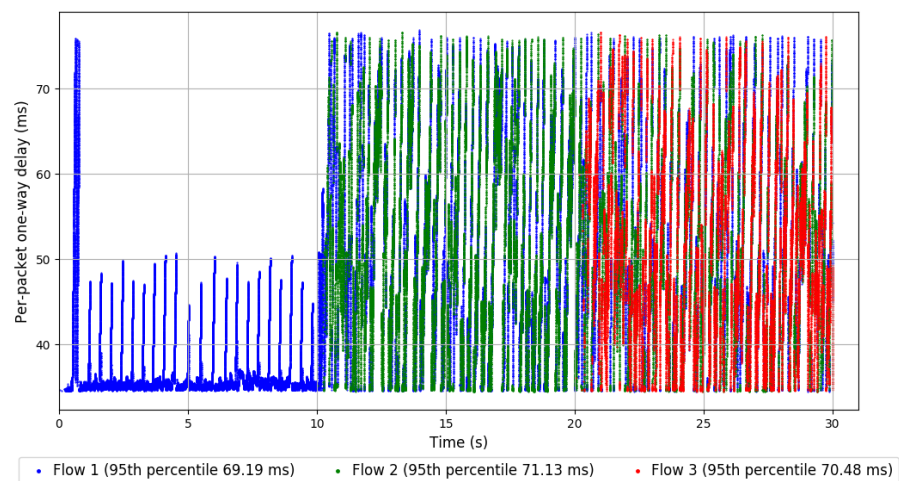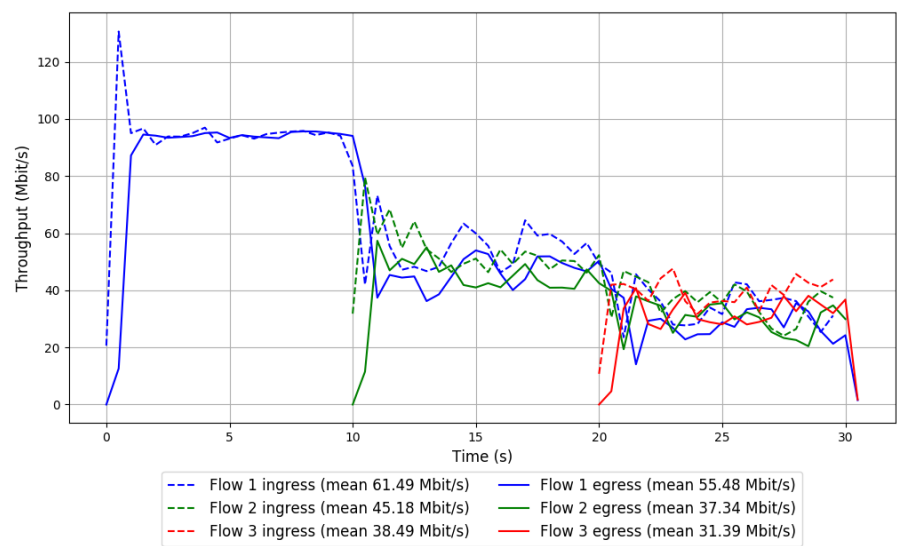
Run 4: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 61.49 Mbit/s) --- Flow 1 egress (mean 55.48 Mbit/s) ---
Flow 2 ingress (mean 45.18 Mbit/s) --- Flow 2 egress (mean 37.34 Mbit/s) ---
Flow 3 ingress (mean 38.49 Mbit/s) --- Flow 3 egress (mean 31.39 Mbit/s) ---

Flow 1 (95th percentile 69.19 ms) • Flow 2 (95th percentile 71.13 ms) • Flow 3 (95th percentile 70.48 ms)

```
Run 5: Statistics of FillP-Sheep

Start at: 2020-02-18 03:32:54
End at: 2020-02-18 03:33:24
Local clock offset: 4.072 ms
Remote clock offset: 6.275 ms


# Below is generated by plot.py at 2020-02-18 03:59:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.57 Mbit/s
95th percentile per-packet one-way delay: 69.919 ms
Loss rate: 12.61%
-- Flow 1:
Average throughput: 55.93 Mbit/s
95th percentile per-packet one-way delay: 68.177 ms
Loss rate: 9.43%
-- Flow 2:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: 71.637 ms
Loss rate: 15.91%
-- Flow 3:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 71.450 ms
Loss rate: 20.04%
```
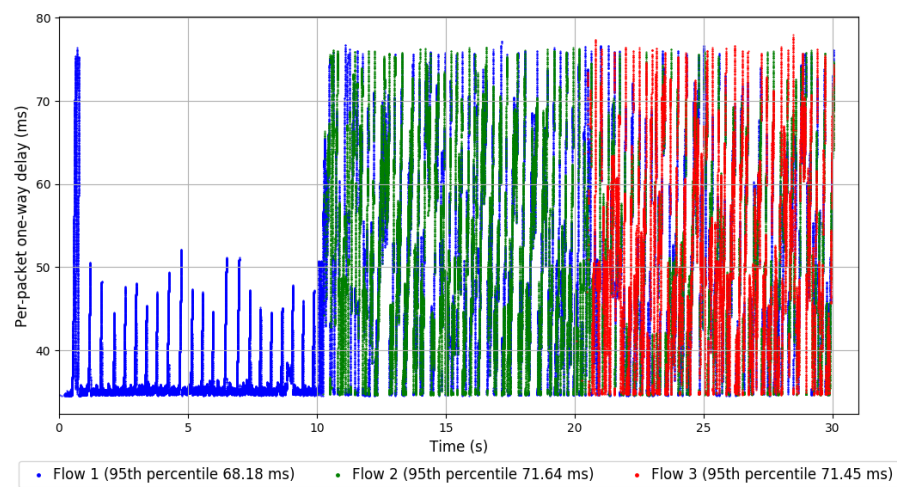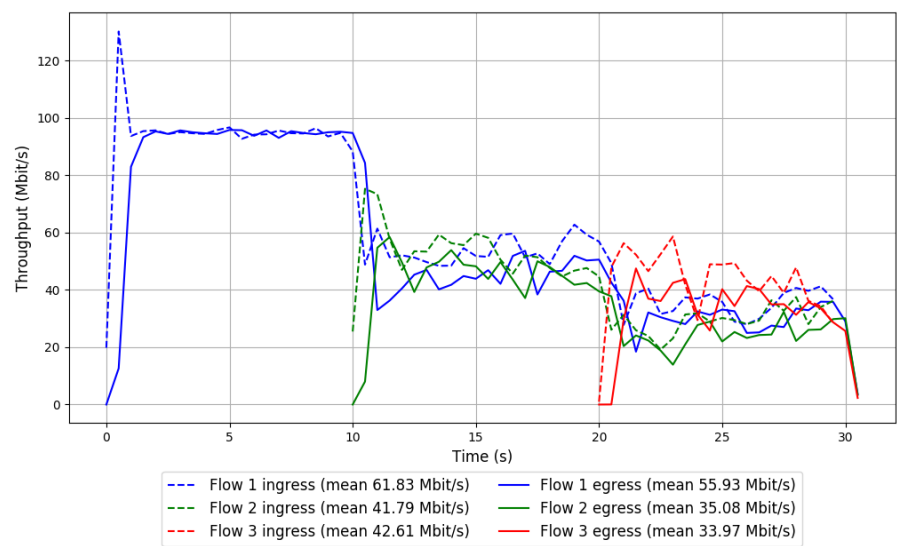
Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 61.83 Mbit/s) --- Flow 1 egress (mean 55.93 Mbit/s)
Flow 2 ingress (mean 41.79 Mbit/s) --- Flow 2 egress (mean 35.08 Mbit/s)
Flow 3 ingress (mean 42.61 Mbit/s) --- Flow 3 egress (mean 33.97 Mbit/s)

Flow 1 (95th percentile 68.18 ms) • Flow 2 (95th percentile 71.64 ms) • Flow 3 (95th percentile 71.45 ms)
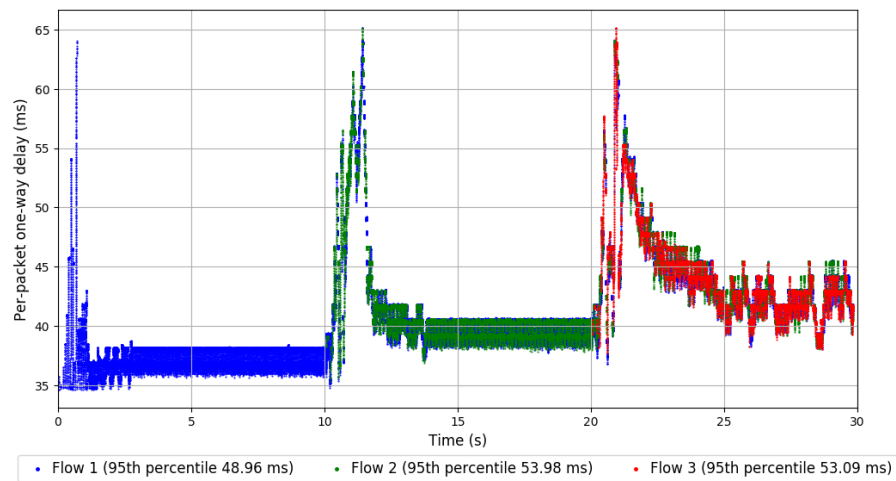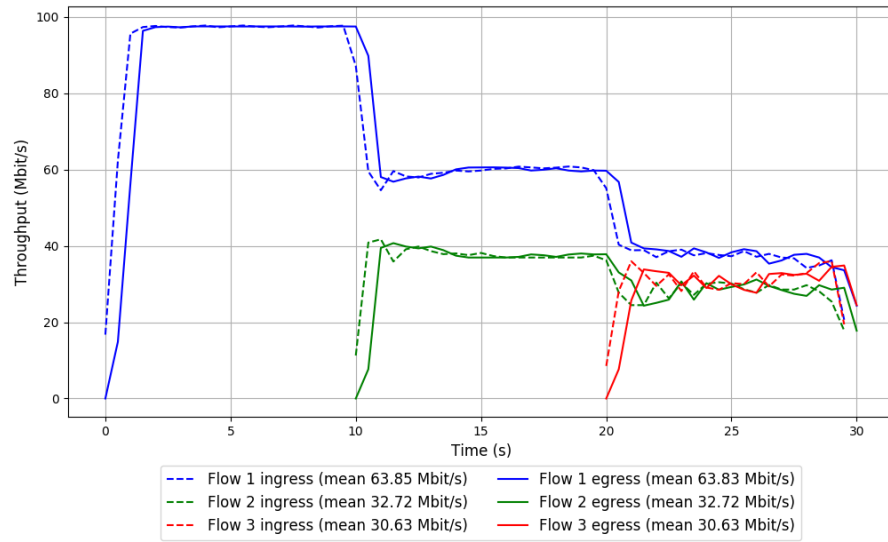
```
Run 1: Statistics of Indigo

Start at: 2020-02-18 01:22:16
End at: 2020-02-18 01:22:46
Local clock offset: 4.75 ms
Remote clock offset: 5.494 ms


# Below is generated by plot.py at 2020-02-18 03:59:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 51.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.83 Mbit/s
95th percentile per-packet one-way delay: 48.956 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.72 Mbit/s
95th percentile per-packet one-way delay: 53.979 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.63 Mbit/s
95th percentile per-packet one-way delay: 53.088 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

Flow 1 ingress (mean 63.85 Mbit/s) --- Flow 1 egress (mean 63.83 Mbit/s)
Flow 2 ingress (mean 32.72 Mbit/s) --- Flow 2 egress (mean 32.72 Mbit/s)
Flow 3 ingress (mean 30.63 Mbit/s) --- Flow 3 egress (mean 30.63 Mbit/s)

Flow 1 (95th percentile 48.96 ms) · Flow 2 (95th percentile 53.98 ms) · Flow 3 (95th percentile 53.09 ms)

```
Run 2: Statistics of Indigo

Start at: 2020-02-18 01:53:47
End at: 2020-02-18 01:54:17
Local clock offset: 3.205 ms
Remote clock offset: 5.81 ms

# Below is generated by plot.py at 2020-02-18 03:59:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 47.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.21 Mbit/s
95th percentile per-packet one-way delay: 45.884 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 48.527 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.11 Mbit/s
95th percentile per-packet one-way delay: 49.067 ms
Loss rate: 0.00%
```
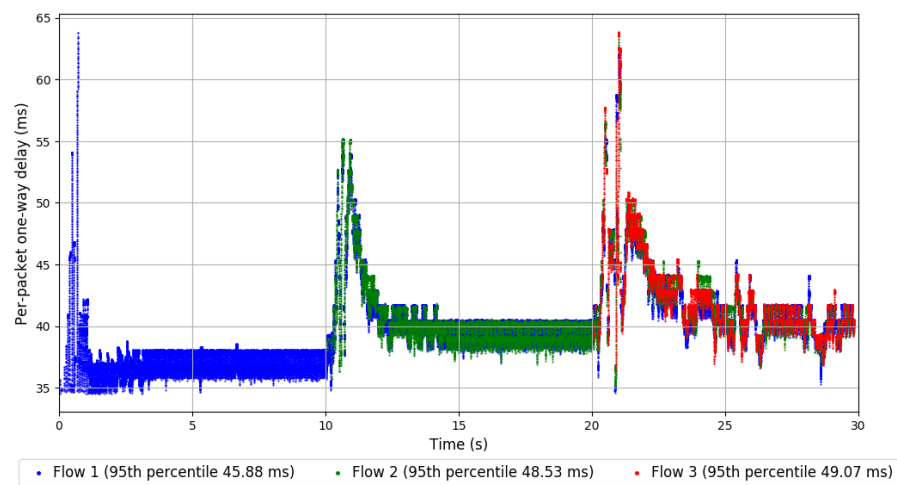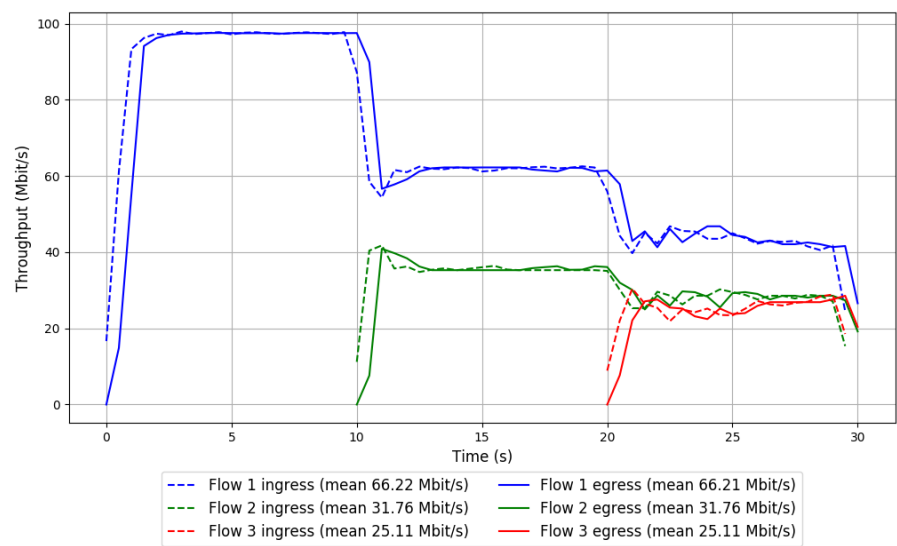
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2020-02-18 02:25:27
End at: 2020-02-18 02:25:57
Local clock offset: 4.934 ms
Remote clock offset: 5.994 ms


# Below is generated by plot.py at 2020-02-18 03:59:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.81 Mbit/s
95th percentile per-packet one-way delay: 57.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.12 Mbit/s
95th percentile per-packet one-way delay: 48.825 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 58.148 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 67.114 ms
Loss rate: 0.00%
```
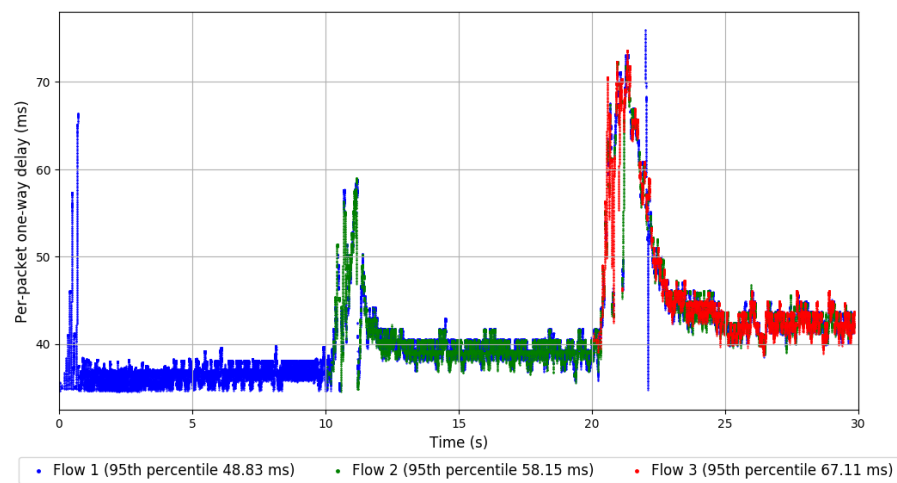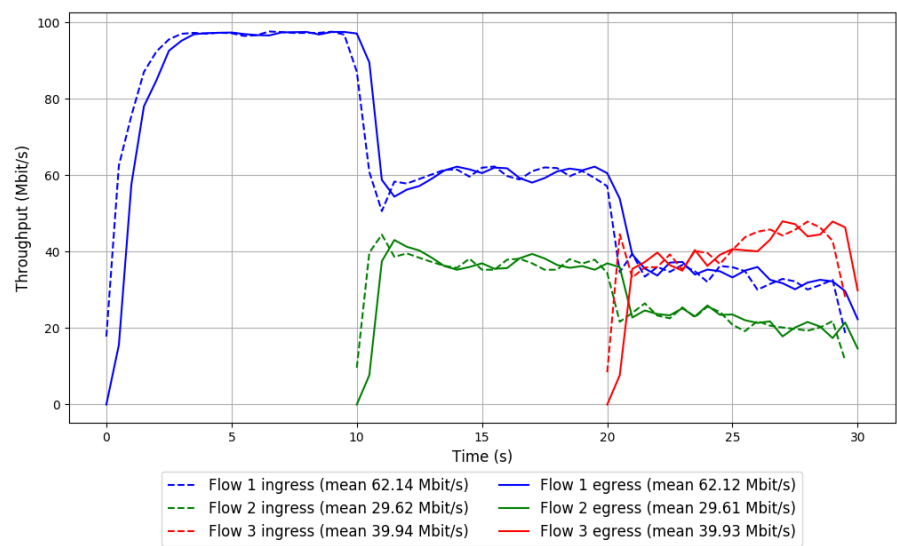
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2020-02-18 02:56:57
End at: 2020-02-18 02:57:27
Local clock offset: 5.031 ms
Remote clock offset: 6.08 ms


# Below is generated by plot.py at 2020-02-18 03:59:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.34 Mbit/s
95th percentile per-packet one-way delay: 47.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.54 Mbit/s
95th percentile per-packet one-way delay: 45.178 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 50.639 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 28.28 Mbit/s
95th percentile per-packet one-way delay: 53.848 ms
Loss rate: 0.00%
```
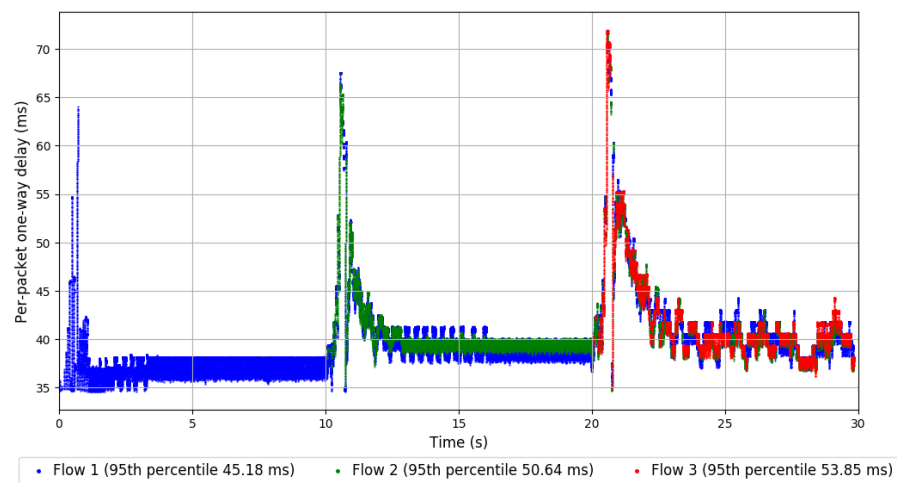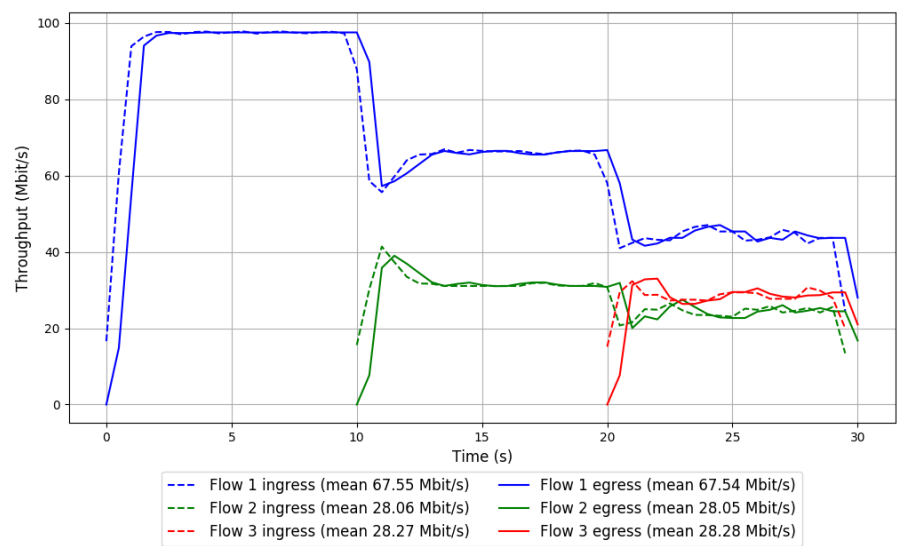
Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2020-02-18 03:27:46
End at: 2020-02-18 03:28:16
Local clock offset: 3.349 ms
Remote clock offset: 6.263 ms


# Below is generated by plot.py at 2020-02-18 03:59:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 48.531 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.18 Mbit/s
95th percentile per-packet one-way delay: 46.458 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.32 Mbit/s
95th percentile per-packet one-way delay: 51.240 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 52.232 ms
Loss rate: 0.00%
```
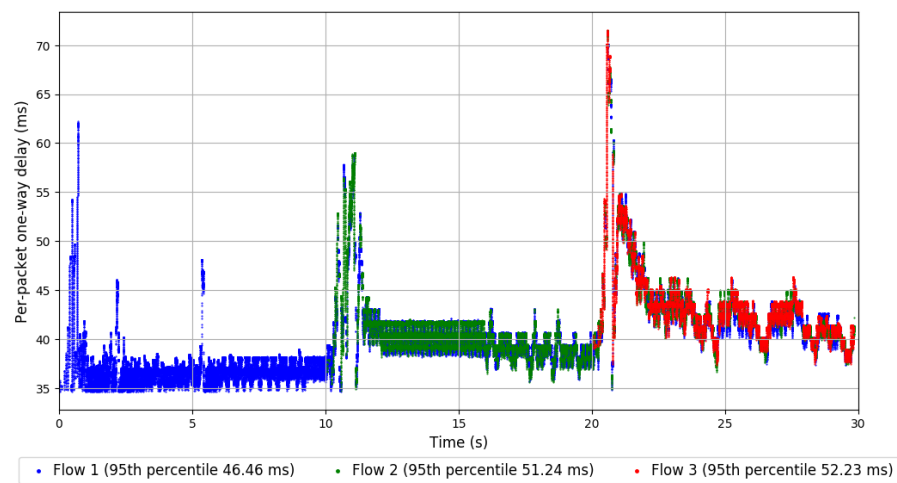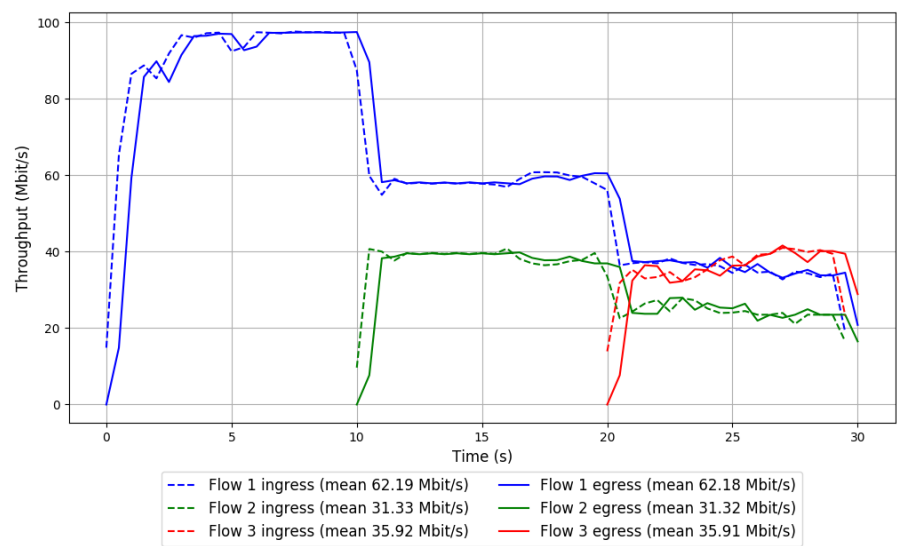
Run 5: Report of Indigo — Data Link

- - - Flow 1 ingress (mean 62.19 Mbit/s) —— Flow 1 egress (mean 62.18 Mbit/s)
- - - Flow 2 ingress (mean 31.33 Mbit/s) —— Flow 2 egress (mean 31.32 Mbit/s)
- - - Flow 3 ingress (mean 35.92 Mbit/s) —— Flow 3 egress (mean 35.91 Mbit/s)

• Flow 1 (95th percentile 46.46 ms)   • Flow 2 (95th percentile 51.24 ms)   • Flow 3 (95th percentile 52.23 ms)

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-02-18 01:48:15
End at: 2020-02-18 01:48:45
Local clock offset: 3.308 ms
Remote clock offset: 5.9 ms


# Below is generated by plot.py at 2020-02-18 03:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.82 Mbit/s
95th percentile per-packet one-way delay: 53.333 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 54.14 Mbit/s
95th percentile per-packet one-way delay: 49.503 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 48.83 Mbit/s
95th percentile per-packet one-way delay: 54.024 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 34.34 Mbit/s
95th percentile per-packet one-way delay: 60.226 ms
Loss rate: 0.96%
```
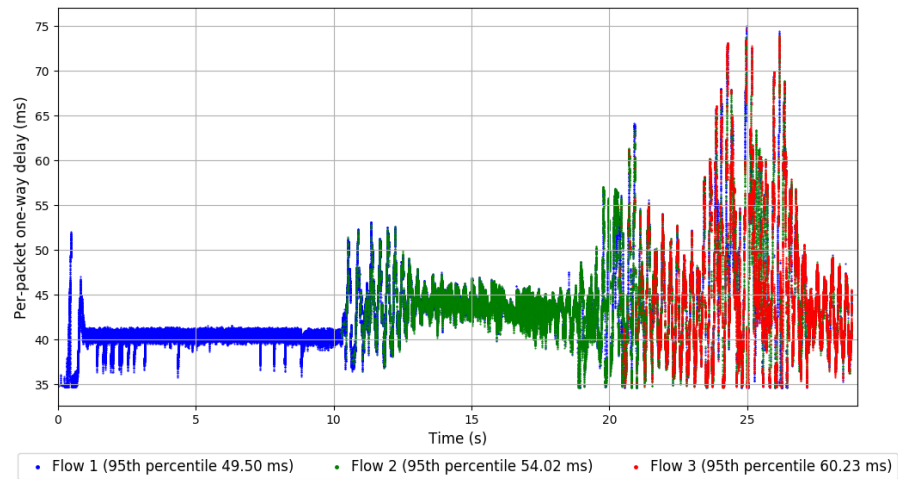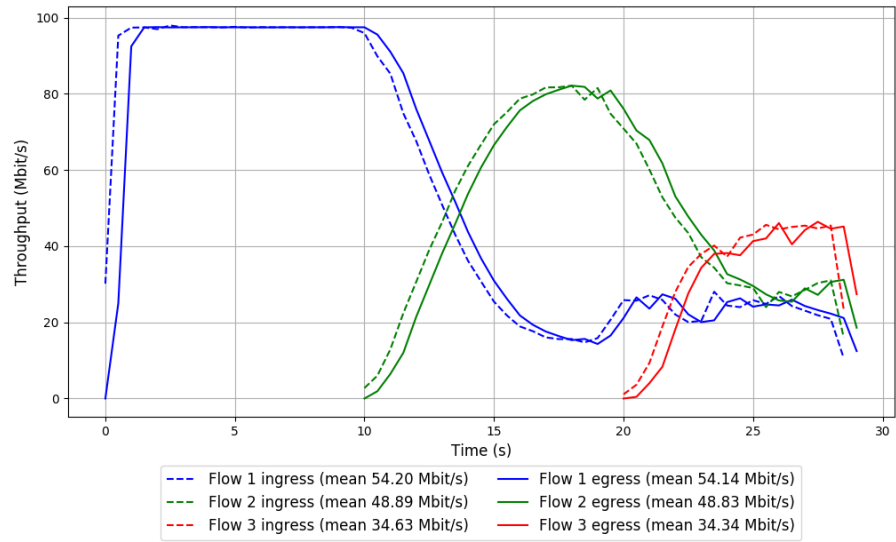
Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-02-18 02:20:21
End at: 2020-02-18 02:20:51
Local clock offset: 4.806 ms
Remote clock offset: 6.128 ms


# Below is generated by plot.py at 2020-02-18 04:00:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 53.292 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 51.71 Mbit/s
95th percentile per-packet one-way delay: 48.621 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 52.90 Mbit/s
95th percentile per-packet one-way delay: 53.125 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 32.96 Mbit/s
95th percentile per-packet one-way delay: 62.502 ms
Loss rate: 0.81%
```
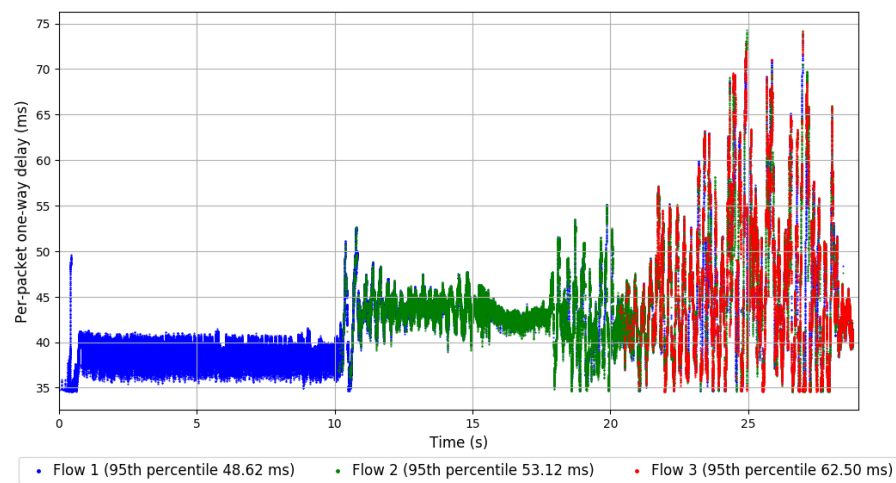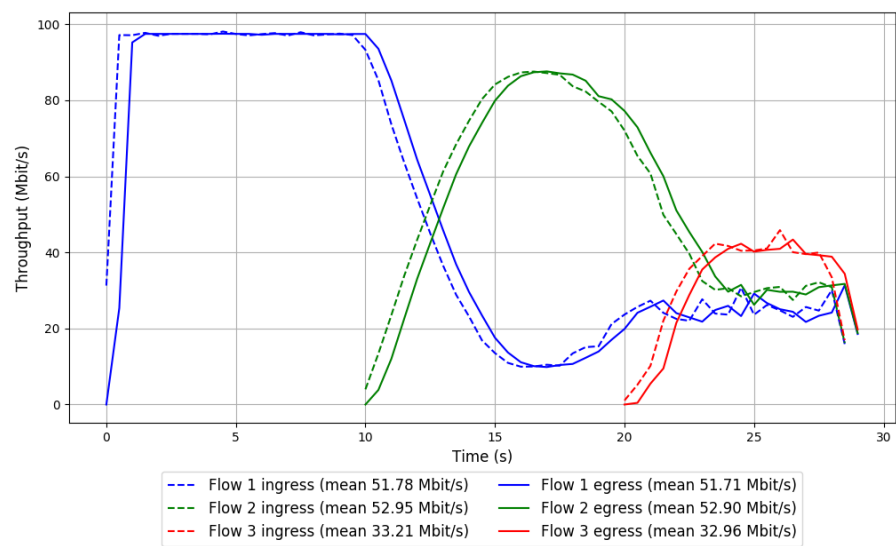
Run 2: Report of Indigo-MusesC3 — Data Link

- - - Flow 1 ingress (mean 51.78 Mbit/s) —— Flow 1 egress (mean 51.71 Mbit/s)
- - - Flow 2 ingress (mean 52.95 Mbit/s) —— Flow 2 egress (mean 52.90 Mbit/s)
- - - Flow 3 ingress (mean 33.21 Mbit/s) —— Flow 3 egress (mean 32.96 Mbit/s)

- Flow 1 (95th percentile 48.62 ms) • Flow 2 (95th percentile 53.12 ms) • Flow 3 (95th percentile 62.50 ms)

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-02-18 02:51:09
End at: 2020-02-18 02:51:39
Local clock offset: 5.027 ms
Remote clock offset: 6.059 ms


# Below is generated by plot.py at 2020-02-18 04:00:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 53.320 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 49.957 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 50.53 Mbit/s
95th percentile per-packet one-way delay: 53.426 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 30.60 Mbit/s
95th percentile per-packet one-way delay: 61.559 ms
Loss rate: 2.03%
```
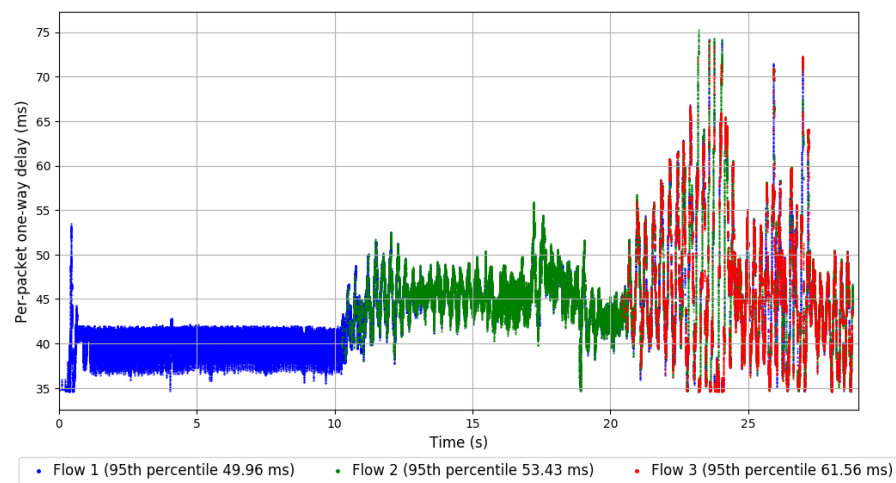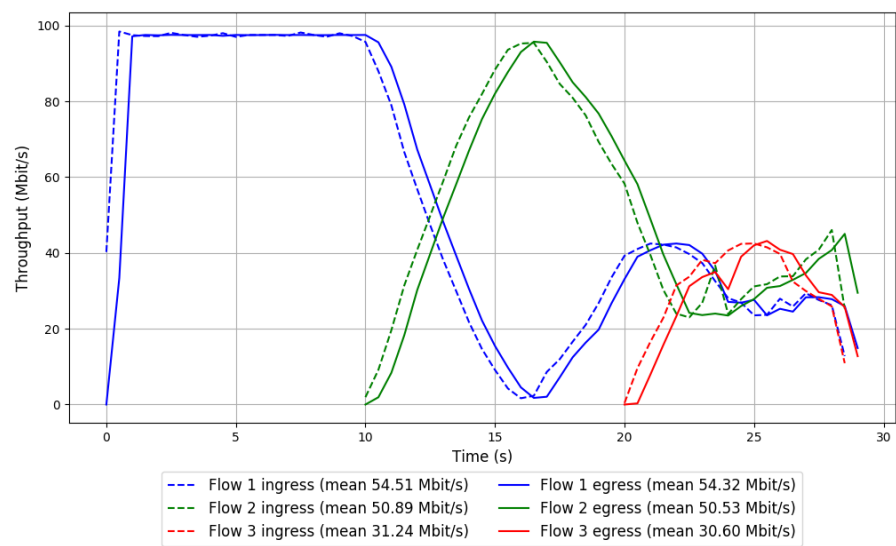
Run 3: Report of Indigo-MusesC3 — Data Link

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```
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-02-18 03:22:45
End at: 2020-02-18 03:23:15
Local clock offset: 3.456 ms
Remote clock offset: 6.323 ms


# Below is generated by plot.py at 2020-02-18 04:00:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 53.062 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 48.439 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 51.802 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 61.942 ms
Loss rate: 3.30%
```
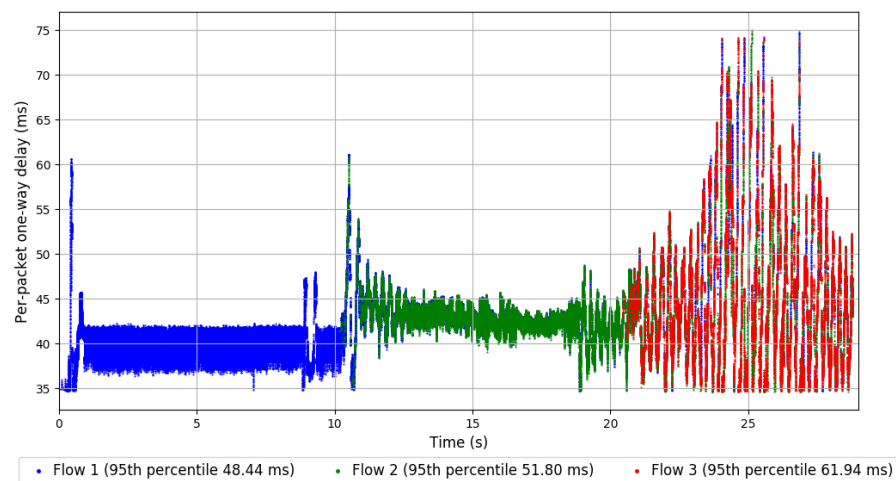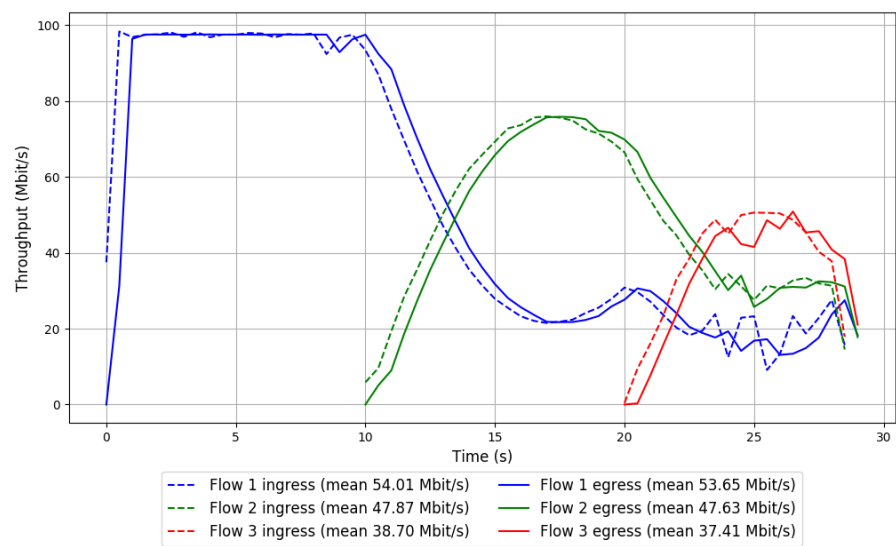
Run 4: Report of Indigo-MusesC3 — Data Link

- - - Flow 1 ingress (mean 54.01 Mbit/s)   —— Flow 1 egress (mean 53.65 Mbit/s)
- - - Flow 2 ingress (mean 47.87 Mbit/s)   —— Flow 2 egress (mean 47.63 Mbit/s)
- - - Flow 3 ingress (mean 38.70 Mbit/s)   —— Flow 3 egress (mean 37.41 Mbit/s)

• Flow 1 (95th percentile 48.44 ms)   • Flow 2 (95th percentile 51.80 ms)   • Flow 3 (95th percentile 61.94 ms)

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-02-18 03:52:34
End at: 2020-02-18 03:53:04
Local clock offset: 5.084 ms
Remote clock offset: 6.32 ms


# Below is generated by plot.py at 2020-02-18 04:00:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 52.899 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 54.70 Mbit/s
95th percentile per-packet one-way delay: 48.709 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 52.455 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 64.440 ms
Loss rate: 1.16%
```
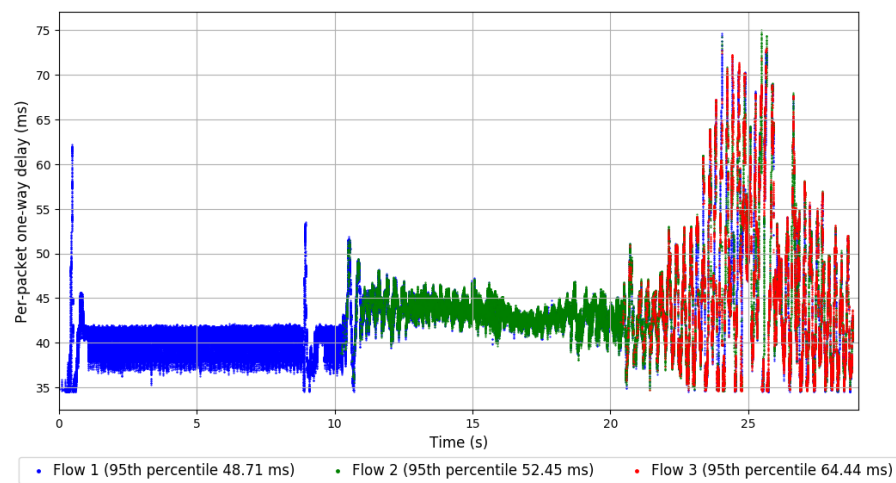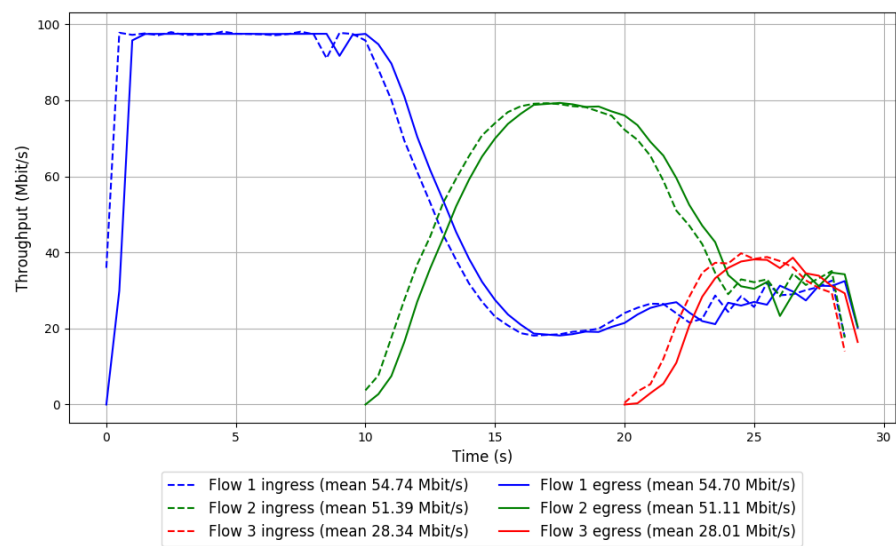
Run 5: Report of Indigo-MusesC3 — Data Link

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```
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-02-18 01:24:54
End at: 2020-02-18 01:25:24
Local clock offset: 4.773 ms
Remote clock offset: 5.673 ms


# Below is generated by plot.py at 2020-02-18 04:00:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 67.726 ms
Loss rate: 12.34%
-- Flow 1:
Average throughput: 57.97 Mbit/s
95th percentile per-packet one-way delay: 66.550 ms
Loss rate: 9.42%
-- Flow 2:
Average throughput: 51.45 Mbit/s
95th percentile per-packet one-way delay: 69.596 ms
Loss rate: 16.79%
-- Flow 3:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 70.189 ms
Loss rate: 27.32%
```
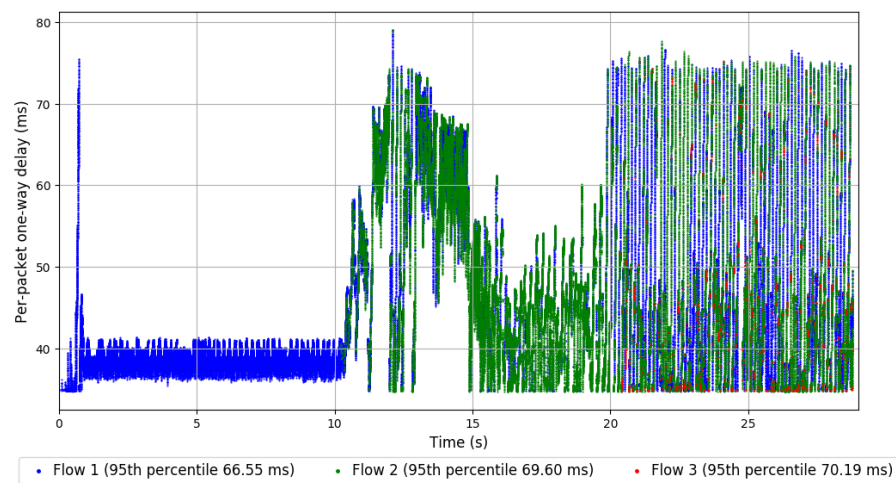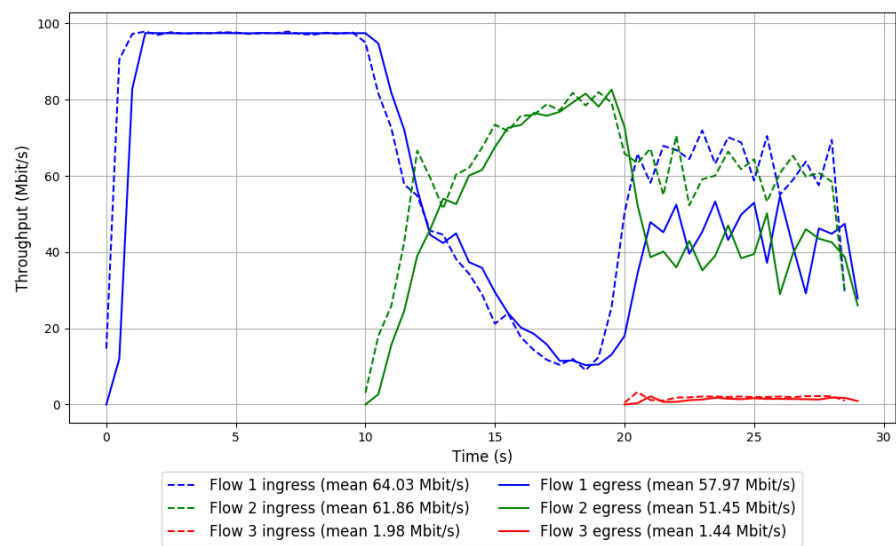
Run 1: Report of Indigo-MusesC5 — Data Link

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-02-18 01:56:43
End at: 2020-02-18 01:57:13
Local clock offset: 3.077 ms
Remote clock offset: 5.775 ms


# Below is generated by plot.py at 2020-02-18 04:00:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 69.142 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 55.61 Mbit/s
95th percentile per-packet one-way delay: 66.148 ms
Loss rate: 3.74%
-- Flow 2:
Average throughput: 48.02 Mbit/s
95th percentile per-packet one-way delay: 71.091 ms
Loss rate: 10.68%
-- Flow 3:
Average throughput: 22.55 Mbit/s
95th percentile per-packet one-way delay: 69.606 ms
Loss rate: 16.74%
```
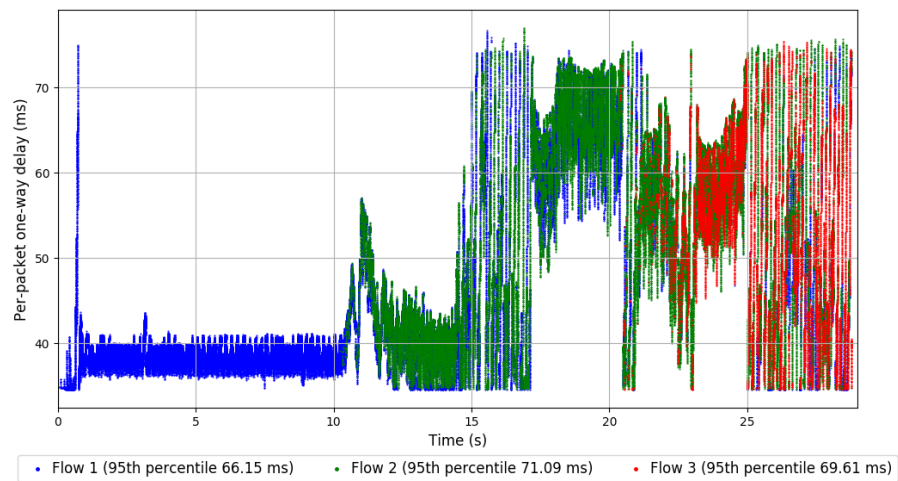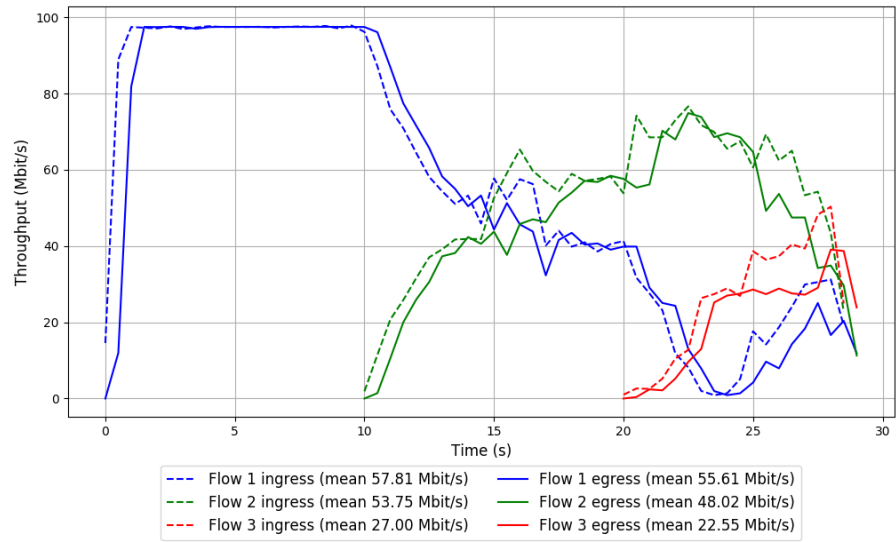
Run 2: Report of Indigo-MusesC5 — Data Link

- - - Flow 1 ingress (mean 57.81 Mbit/s) —— Flow 1 egress (mean 55.61 Mbit/s)
- - - Flow 2 ingress (mean 53.75 Mbit/s) —— Flow 2 egress (mean 48.02 Mbit/s)
- - - Flow 3 ingress (mean 27.00 Mbit/s) —— Flow 3 egress (mean 22.55 Mbit/s)

• Flow 1 (95th percentile 66.15 ms)   • Flow 2 (95th percentile 71.09 ms)   • Flow 3 (95th percentile 69.61 ms)

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```
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-02-18 02:28:08
End at: 2020-02-18 02:28:38
Local clock offset: 4.948 ms
Remote clock offset: 6.03 ms


# Below is generated by plot.py at 2020-02-18 04:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 65.639 ms
Loss rate: 10.95%
-- Flow 1:
Average throughput: 58.80 Mbit/s
95th percentile per-packet one-way delay: 64.094 ms
Loss rate: 8.38%
-- Flow 2:
Average throughput: 48.89 Mbit/s
95th percentile per-packet one-way delay: 67.445 ms
Loss rate: 14.55%
-- Flow 3:
Average throughput: 5.76 Mbit/s
95th percentile per-packet one-way delay: 69.388 ms
Loss rate: 24.90%
```
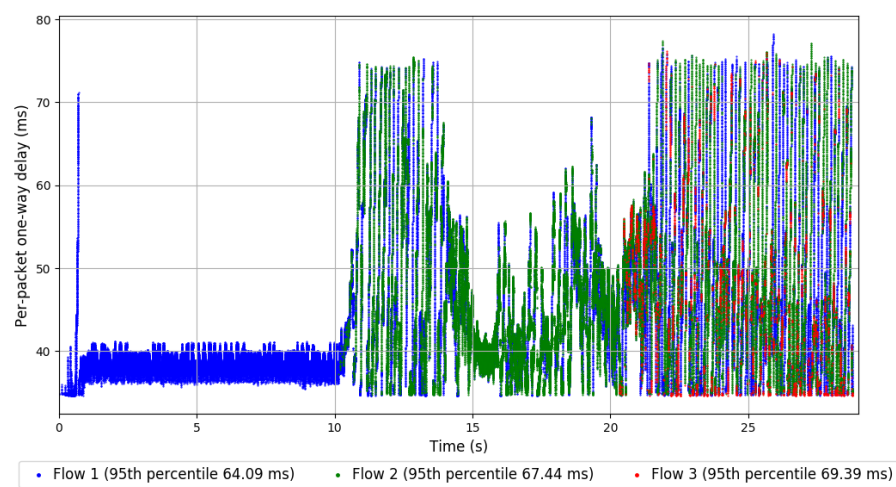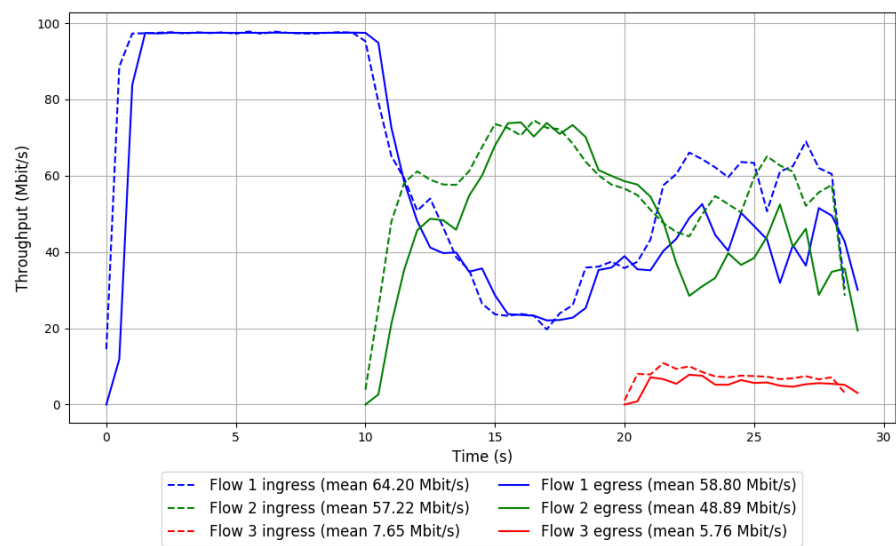
Run 3: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 64.20 Mbit/s) --- Flow 1 egress (mean 58.80 Mbit/s)
Flow 2 ingress (mean 57.22 Mbit/s) --- Flow 2 egress (mean 48.89 Mbit/s)
Flow 3 ingress (mean 7.65 Mbit/s) --- Flow 3 egress (mean 5.76 Mbit/s)

Flow 1 (95th percentile 64.09 ms)   Flow 2 (95th percentile 67.44 ms)   Flow 3 (95th percentile 69.39 ms)

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-02-18 02:59:39
End at: 2020-02-18 03:00:09
Local clock offset: 4.773 ms
Remote clock offset: 6.151 ms


# Below is generated by plot.py at 2020-02-18 04:01:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.33 Mbit/s
95th percentile per-packet one-way delay: 67.598 ms
Loss rate: 12.61%
-- Flow 1:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 63.877 ms
Loss rate: 7.20%
-- Flow 2:
Average throughput: 47.81 Mbit/s
95th percentile per-packet one-way delay: 69.347 ms
Loss rate: 16.97%
-- Flow 3:
Average throughput: 30.43 Mbit/s
95th percentile per-packet one-way delay: 70.276 ms
Loss rate: 24.40%
```
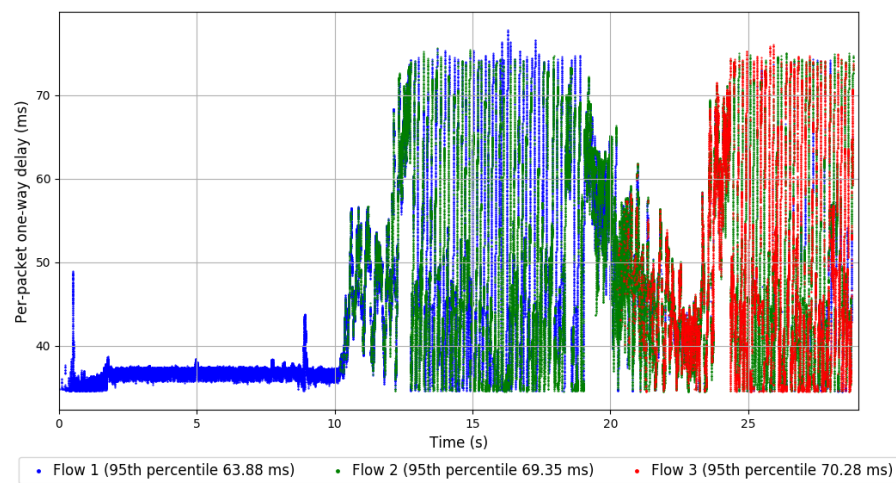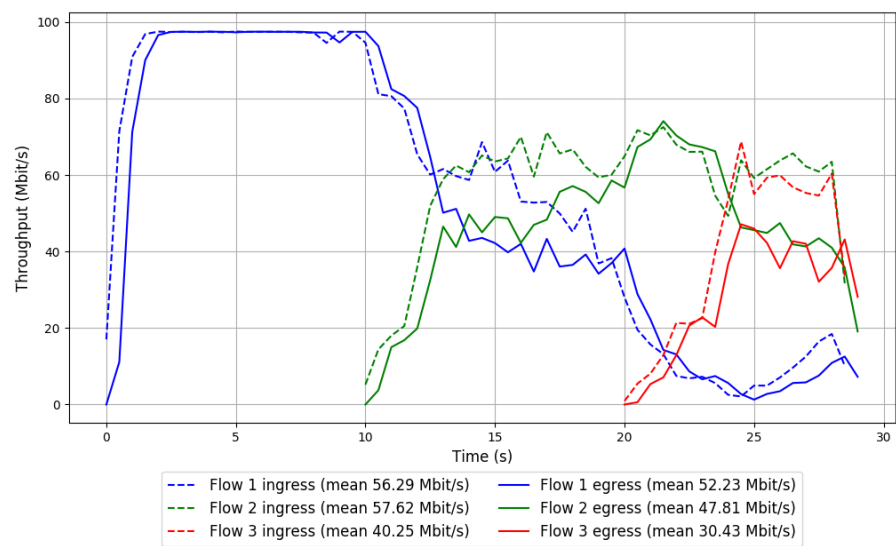
Run 4: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 56.29 Mbit/s) — Flow 1 egress (mean 52.23 Mbit/s)
Flow 2 ingress (mean 57.62 Mbit/s) — Flow 2 egress (mean 47.81 Mbit/s)
Flow 3 ingress (mean 40.25 Mbit/s) — Flow 3 egress (mean 30.43 Mbit/s)

Flow 1 (95th percentile 63.88 ms) • Flow 2 (95th percentile 69.35 ms) • Flow 3 (95th percentile 70.28 ms)

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-02-18 03:30:22
End at: 2020-02-18 03:30:52
Local clock offset: 3.708 ms
Remote clock offset: 6.251 ms


# Below is generated by plot.py at 2020-02-18 04:01:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 66.530 ms
Loss rate: 12.78%
-- Flow 1:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 64.213 ms
Loss rate: 10.88%
-- Flow 2:
Average throughput: 52.44 Mbit/s
95th percentile per-packet one-way delay: 68.490 ms
Loss rate: 15.52%
-- Flow 3:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 69.142 ms
Loss rate: 32.65%
```
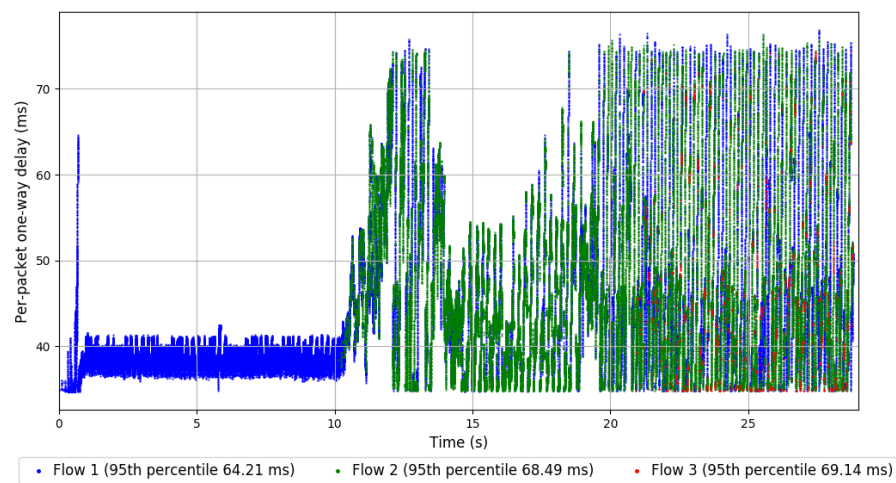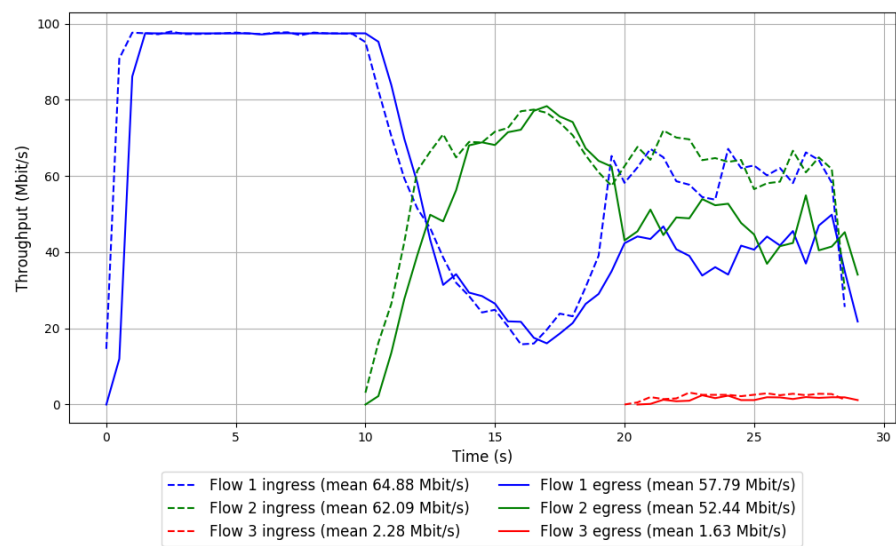
Run 5: Report of Indigo-MusesC5 — Data Link

- - - - Flow 1 ingress (mean 64.88 Mbit/s) ——— Flow 1 egress (mean 57.79 Mbit/s)
- - - - Flow 2 ingress (mean 62.09 Mbit/s) ——— Flow 2 egress (mean 52.44 Mbit/s)
- - - - Flow 3 ingress (mean 2.28 Mbit/s) ——— Flow 3 egress (mean 1.63 Mbit/s)

• Flow 1 (95th percentile 64.21 ms)　　• Flow 2 (95th percentile 68.49 ms)　　• Flow 3 (95th percentile 69.14 ms)

```
Run 1: Statistics of Indigo-MusesD

Start at: 2020-02-18 01:28:58
End at: 2020-02-18 01:29:28
Local clock offset: 4.656 ms
Remote clock offset: 5.545 ms

# Below is generated by plot.py at 2020-02-18 04:01:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.42 Mbit/s
95th percentile per-packet one-way delay: 42.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 41.321 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.68 Mbit/s
95th percentile per-packet one-way delay: 41.777 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 43.99 Mbit/s
95th percentile per-packet one-way delay: 43.405 ms
Loss rate: 0.00%
```
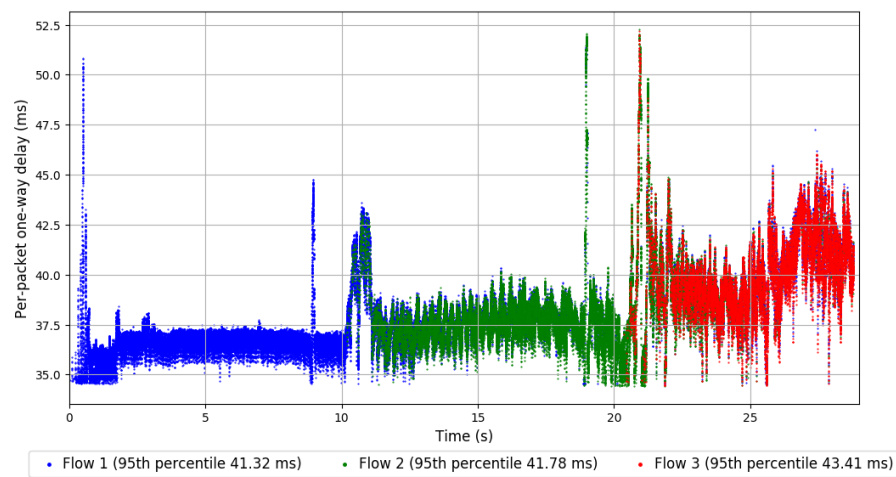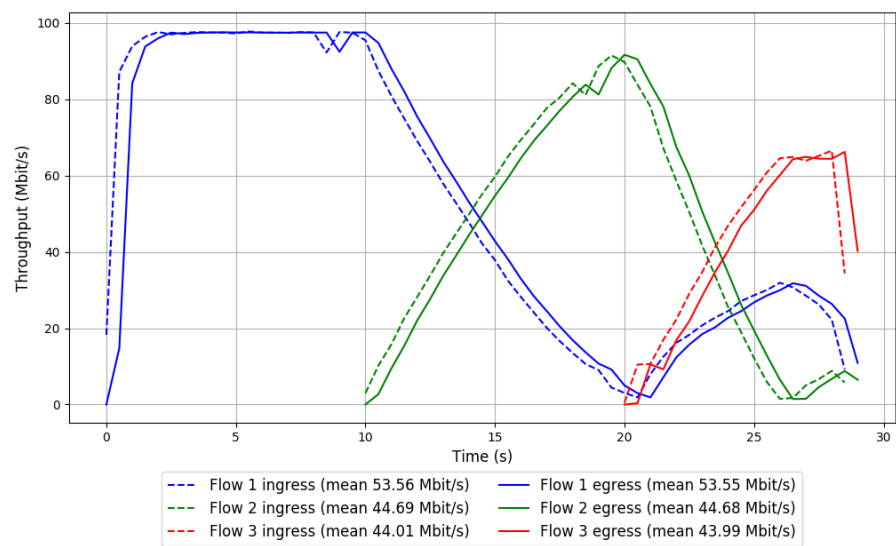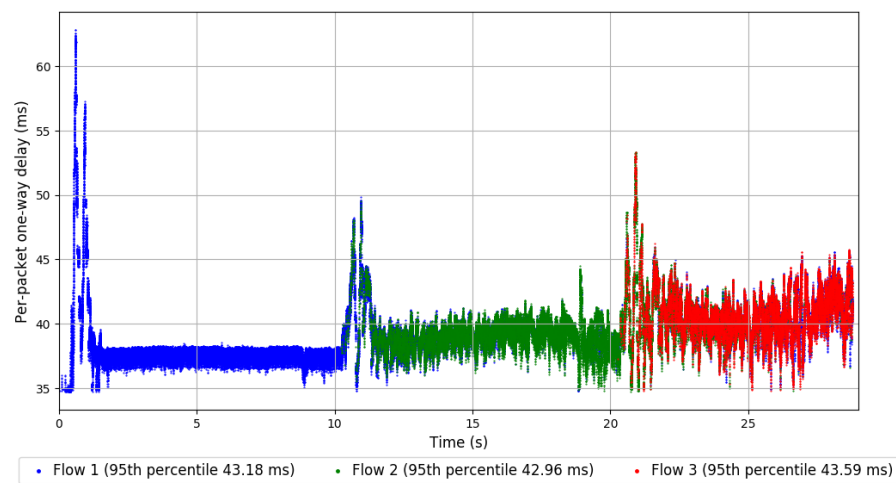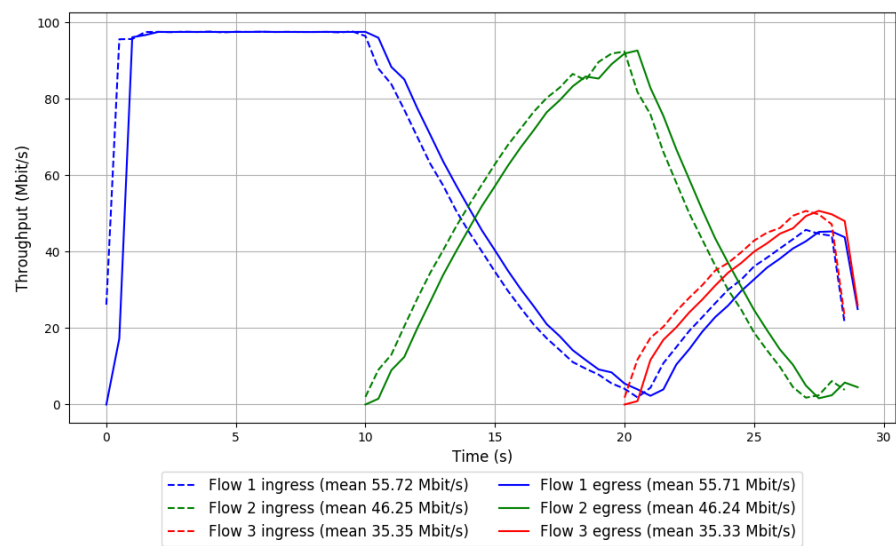
Run 1: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 53.56 Mbit/s) --- Flow 1 egress (mean 53.55 Mbit/s)
Flow 2 ingress (mean 44.69 Mbit/s) --- Flow 2 egress (mean 44.68 Mbit/s)
Flow 3 ingress (mean 44.01 Mbit/s) --- Flow 3 egress (mean 43.99 Mbit/s)

Flow 1 (95th percentile 41.32 ms) · Flow 2 (95th percentile 41.78 ms) · Flow 3 (95th percentile 43.41 ms)

```
Run 2: Statistics of Indigo-MusesD

Start at: 2020-02-18 02:01:02
End at: 2020-02-18 02:01:32
Local clock offset: 3.631 ms
Remote clock offset: 5.993 ms


# Below is generated by plot.py at 2020-02-18 04:01:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 43.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.71 Mbit/s
95th percentile per-packet one-way delay: 43.179 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.24 Mbit/s
95th percentile per-packet one-way delay: 42.960 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.33 Mbit/s
95th percentile per-packet one-way delay: 43.590 ms
Loss rate: 0.00%
```
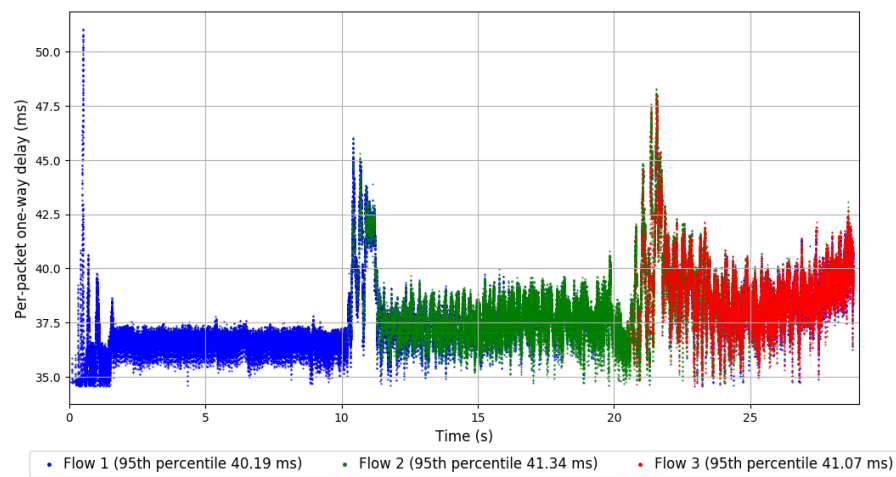
Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2020-02-18 02:32:04
End at: 2020-02-18 02:32:34
Local clock offset: 4.928 ms
Remote clock offset: 5.93 ms


# Below is generated by plot.py at 2020-02-18 04:01:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 40.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.09 Mbit/s
95th percentile per-packet one-way delay: 40.189 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.91 Mbit/s
95th percentile per-packet one-way delay: 41.338 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.46 Mbit/s
95th percentile per-packet one-way delay: 41.066 ms
Loss rate: 0.00%
```
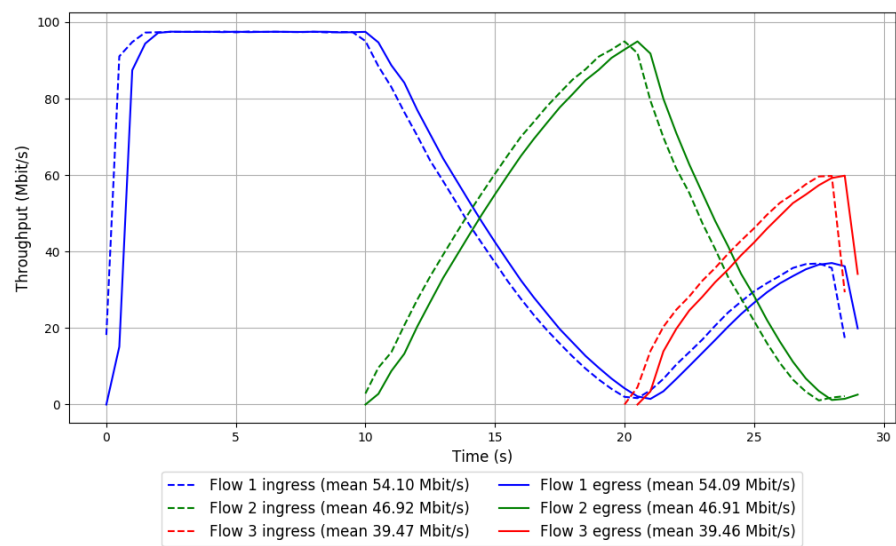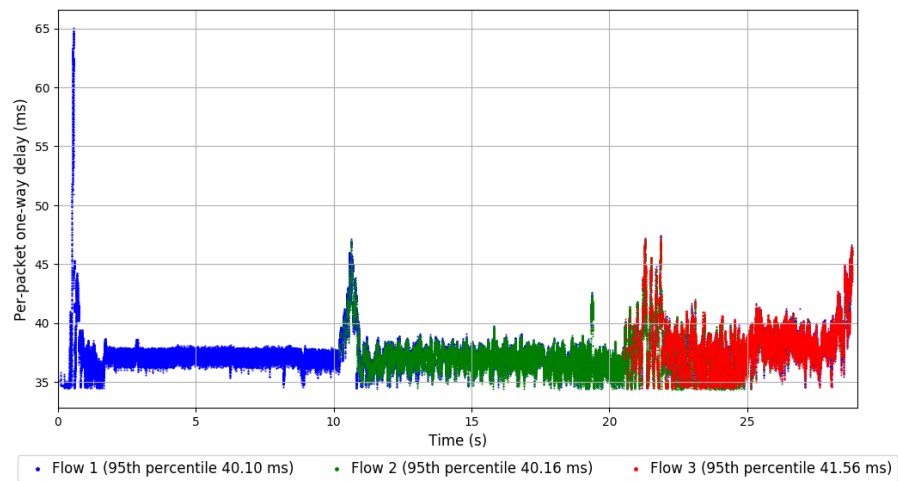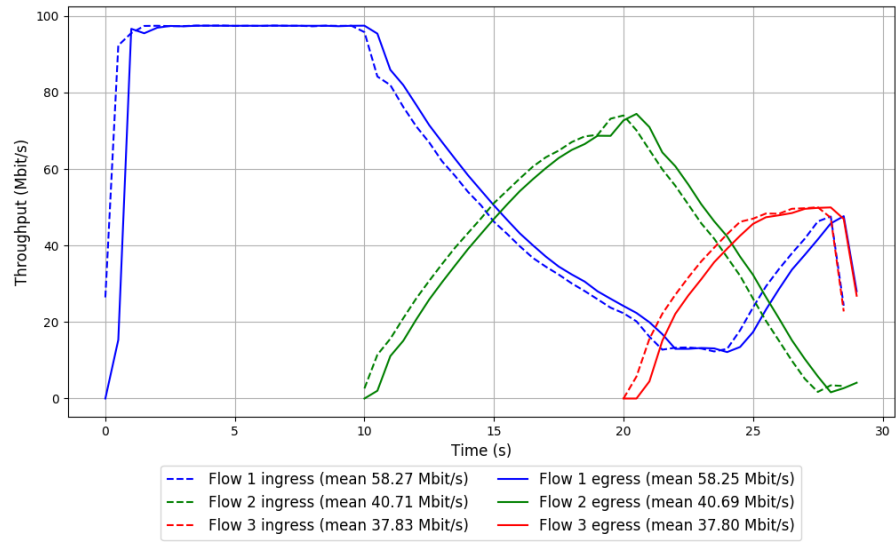
Run 3: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 54.10 Mbit/s) --- Flow 1 egress (mean 54.09 Mbit/s)
Flow 2 ingress (mean 46.92 Mbit/s) --- Flow 2 egress (mean 46.91 Mbit/s)
Flow 3 ingress (mean 39.47 Mbit/s) --- Flow 3 egress (mean 39.46 Mbit/s)

Flow 1 (95th percentile 40.19 ms)   Flow 2 (95th percentile 41.34 ms)   Flow 3 (95th percentile 41.07 ms)

90

```
Run 4: Statistics of Indigo-MusesD

Start at: 2020-02-18 03:03:39
End at: 2020-02-18 03:04:09
Local clock offset: 4.295 ms
Remote clock offset: 5.928 ms


# Below is generated by plot.py at 2020-02-18 04:01:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 40.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.25 Mbit/s
95th percentile per-packet one-way delay: 40.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 40.159 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 41.559 ms
Loss rate: 0.00%
```
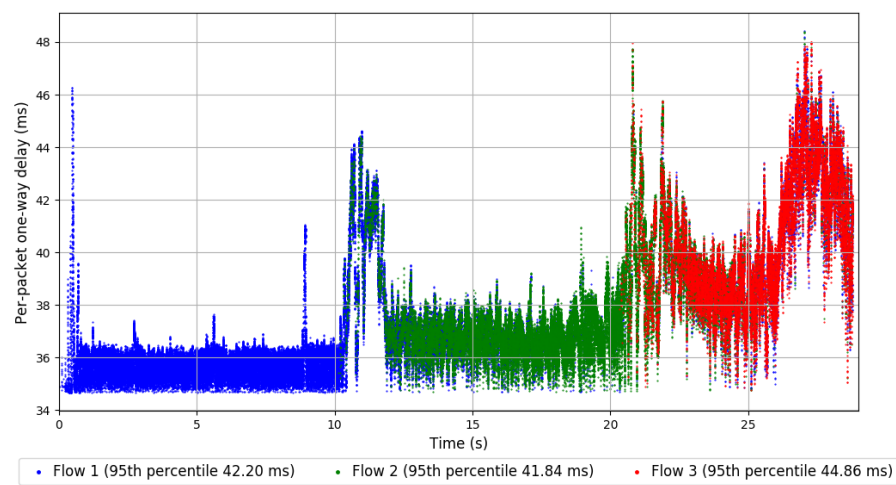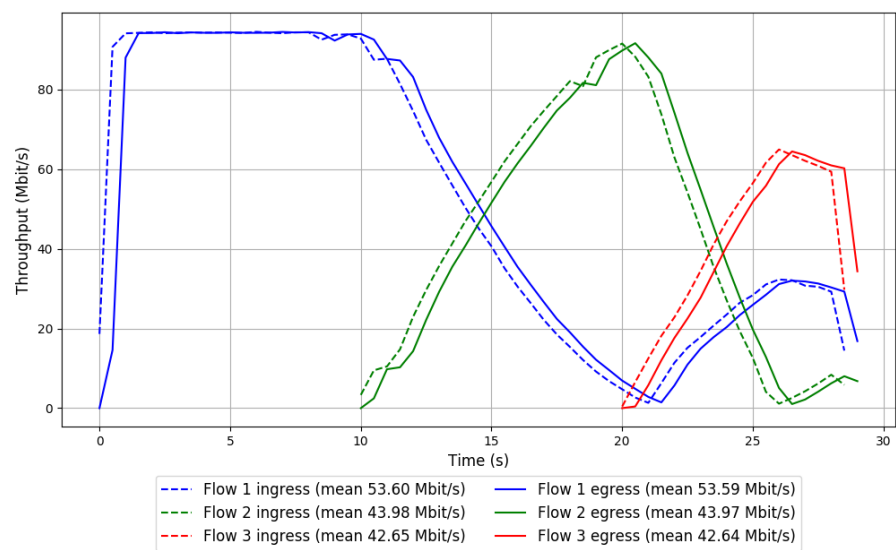
Run 4: Report of Indigo-MusesD — Data Link

Flow 1 ingress (mean 58.27 Mbit/s) --- Flow 1 egress (mean 58.25 Mbit/s)
Flow 2 ingress (mean 40.71 Mbit/s) --- Flow 2 egress (mean 40.69 Mbit/s)
Flow 3 ingress (mean 37.83 Mbit/s) --- Flow 3 egress (mean 37.80 Mbit/s)

Flow 1 (95th percentile 40.10 ms)   Flow 2 (95th percentile 40.16 ms)   Flow 3 (95th percentile 41.56 ms)

```
Run 5: Statistics of Indigo-MusesD

Start at: 2020-02-18 03:34:08
End at: 2020-02-18 03:34:38
Local clock offset: 4.205 ms
Remote clock offset: 6.328 ms


# Below is generated by plot.py at 2020-02-18 04:01:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 43.067 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.59 Mbit/s
95th percentile per-packet one-way delay: 42.196 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.97 Mbit/s
95th percentile per-packet one-way delay: 41.839 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.64 Mbit/s
95th percentile per-packet one-way delay: 44.863 ms
Loss rate: 0.00%
```
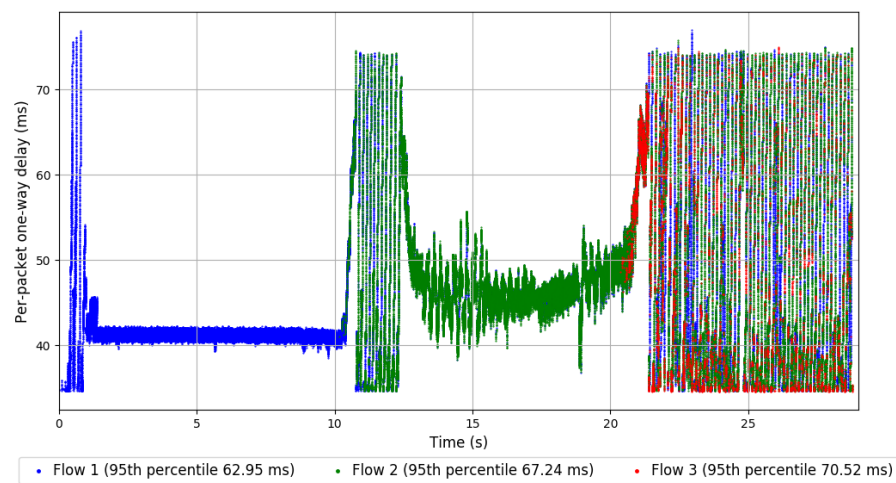
Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2020-02-18 01:23:36
End at: 2020-02-18 01:24:06
Local clock offset: 4.809 ms
Remote clock offset: 5.5 ms


# Below is generated by plot.py at 2020-02-18 04:02:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 65.928 ms
Loss rate: 12.63%
-- Flow 1:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 62.950 ms
Loss rate: 10.21%
-- Flow 2:
Average throughput: 63.14 Mbit/s
95th percentile per-packet one-way delay: 67.236 ms
Loss rate: 14.23%
-- Flow 3:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 70.515 ms
Loss rate: 27.66%
```
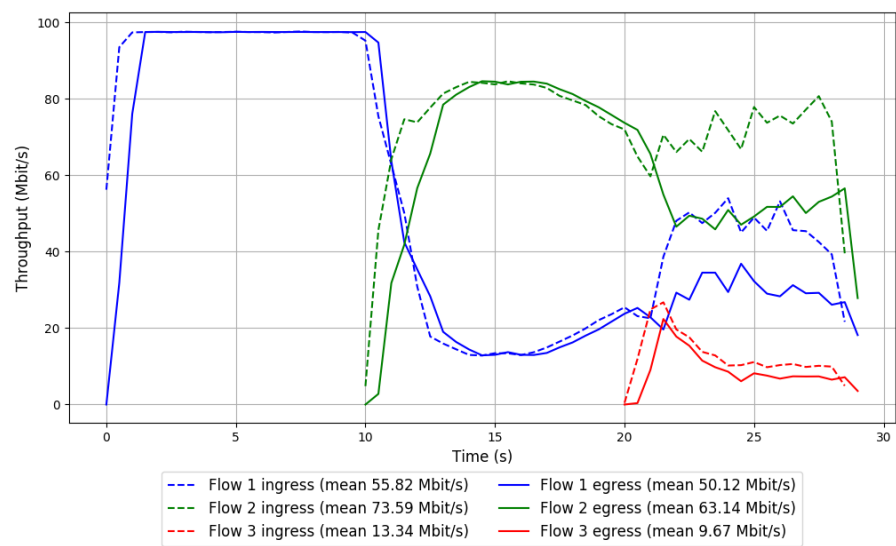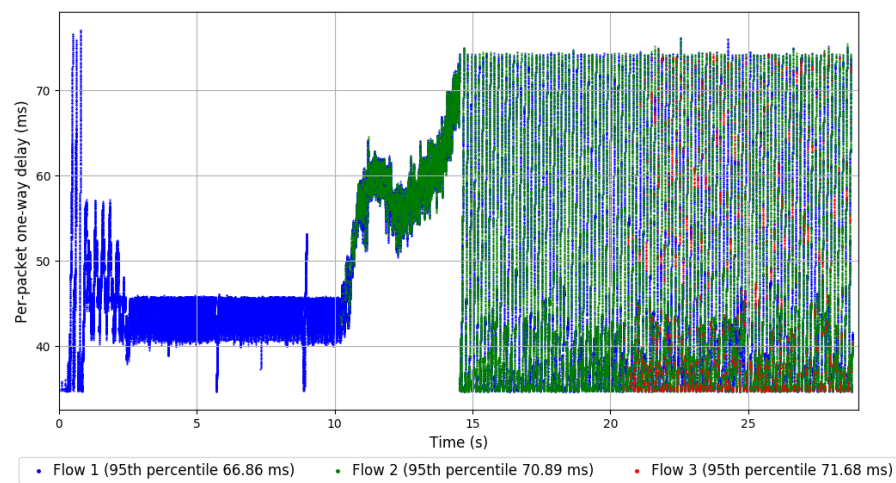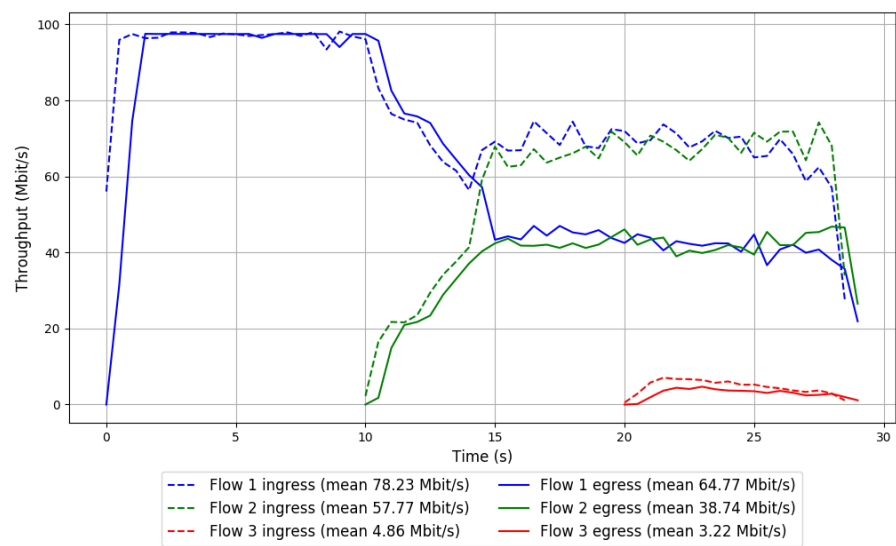
Run 1: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 55.82 Mbit/s) --- Flow 1 egress (mean 50.12 Mbit/s)
Flow 2 ingress (mean 73.59 Mbit/s) --- Flow 2 egress (mean 63.14 Mbit/s)
Flow 3 ingress (mean 13.34 Mbit/s) --- Flow 3 egress (mean 9.67 Mbit/s)

Flow 1 (95th percentile 62.95 ms) • Flow 2 (95th percentile 67.24 ms) • Flow 3 (95th percentile 70.52 ms)

96

```
Run 2: Statistics of Indigo-MusesT

Start at: 2020-02-18 01:55:22
End at: 2020-02-18 01:55:52
Local clock offset: 3.147 ms
Remote clock offset: 5.914 ms


# Below is generated by plot.py at 2020-02-18 04:02:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.80 Mbit/s
95th percentile per-packet one-way delay: 68.868 ms
Loss rate: 22.43%
-- Flow 1:
Average throughput: 64.77 Mbit/s
95th percentile per-packet one-way delay: 66.861 ms
Loss rate: 17.18%
-- Flow 2:
Average throughput: 38.74 Mbit/s
95th percentile per-packet one-way delay: 70.892 ms
Loss rate: 32.96%
-- Flow 3:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 71.684 ms
Loss rate: 33.63%
```
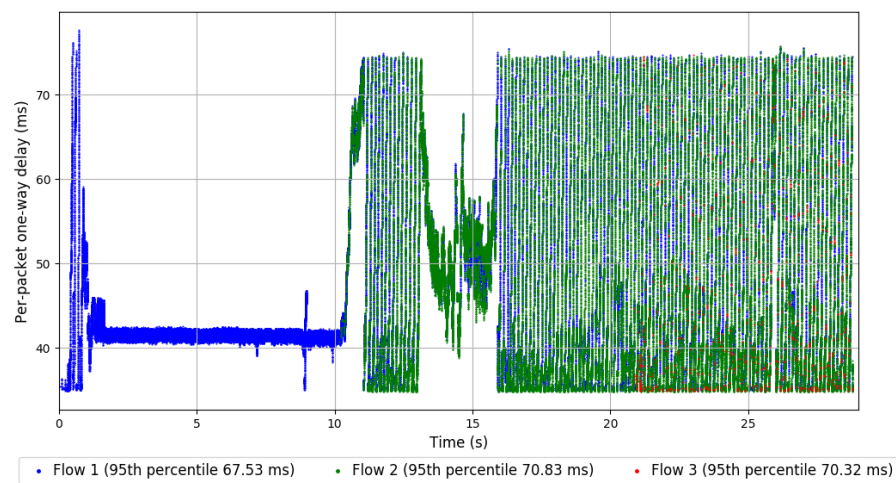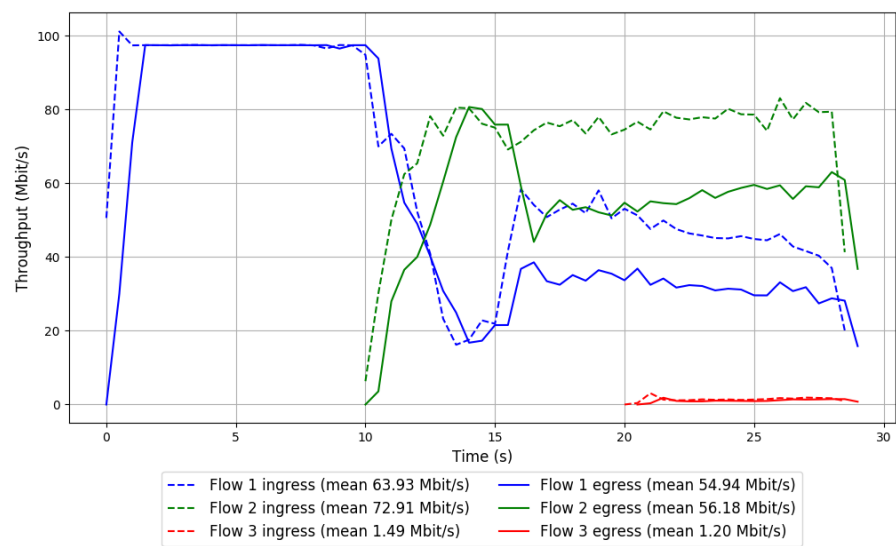
Run 2: Report of Indigo-MusesT — Data Link

98

```
Run 3: Statistics of Indigo-MusesT

Start at: 2020-02-18 02:26:51
End at: 2020-02-18 02:27:21
Local clock offset: 4.91 ms
Remote clock offset: 6.228 ms


# Below is generated by plot.py at 2020-02-18 04:02:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 69.327 ms
Loss rate: 17.87%
-- Flow 1:
Average throughput: 54.94 Mbit/s
95th percentile per-packet one-way delay: 67.534 ms
Loss rate: 14.07%
-- Flow 2:
Average throughput: 56.18 Mbit/s
95th percentile per-packet one-way delay: 70.834 ms
Loss rate: 22.96%
-- Flow 3:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 70.323 ms
Loss rate: 24.28%
```
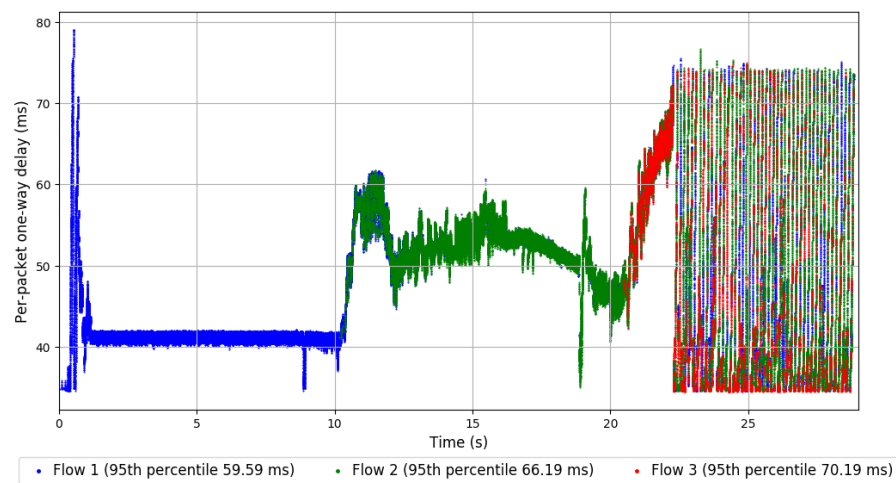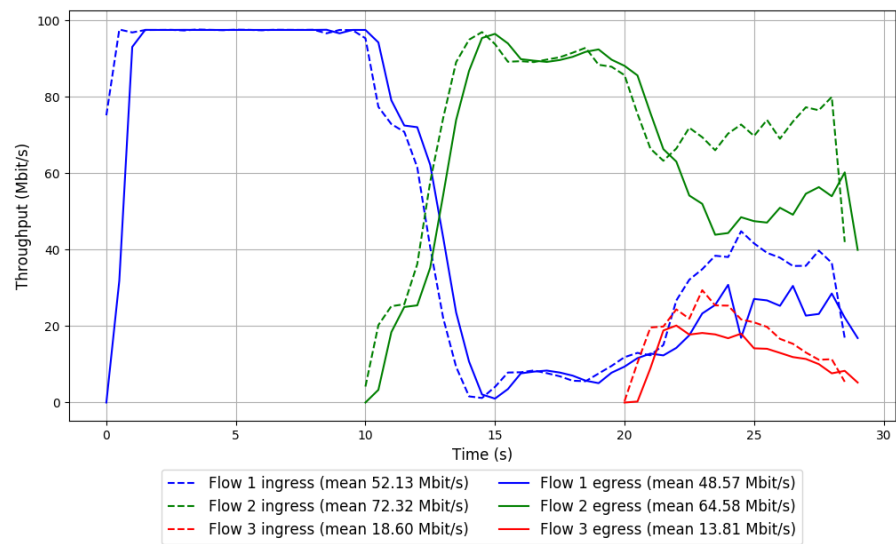
Run 3: Report of Indigo-MusesT — Data Link

--- Flow 1 ingress (mean 63.93 Mbit/s) —— Flow 1 egress (mean 54.94 Mbit/s)
--- Flow 2 ingress (mean 72.91 Mbit/s) —— Flow 2 egress (mean 56.18 Mbit/s)
--- Flow 3 ingress (mean 1.49 Mbit/s) —— Flow 3 egress (mean 1.20 Mbit/s)

• Flow 1 (95th percentile 67.53 ms)   • Flow 2 (95th percentile 70.83 ms)   • Flow 3 (95th percentile 70.32 ms)

```
Run 4: Statistics of Indigo-MusesT

Start at: 2020-02-18 02:58:20
End at: 2020-02-18 02:58:50
Local clock offset: 4.977 ms
Remote clock offset: 6.168 ms


# Below is generated by plot.py at 2020-02-18 04:02:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 64.664 ms
Loss rate: 9.43%
-- Flow 1:
Average throughput: 48.57 Mbit/s
95th percentile per-packet one-way delay: 59.585 ms
Loss rate: 6.74%
-- Flow 2:
Average throughput: 64.58 Mbit/s
95th percentile per-packet one-way delay: 66.193 ms
Loss rate: 10.55%
-- Flow 3:
Average throughput: 13.81 Mbit/s
95th percentile per-packet one-way delay: 70.192 ms
Loss rate: 25.52%
```
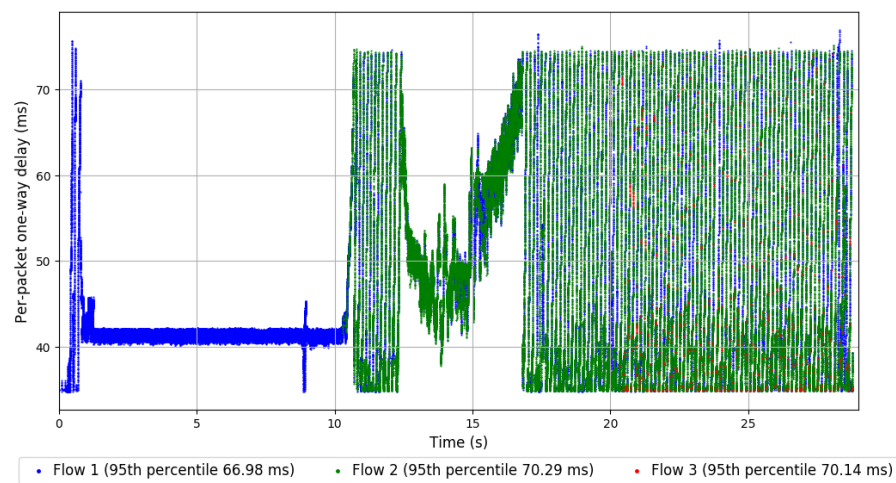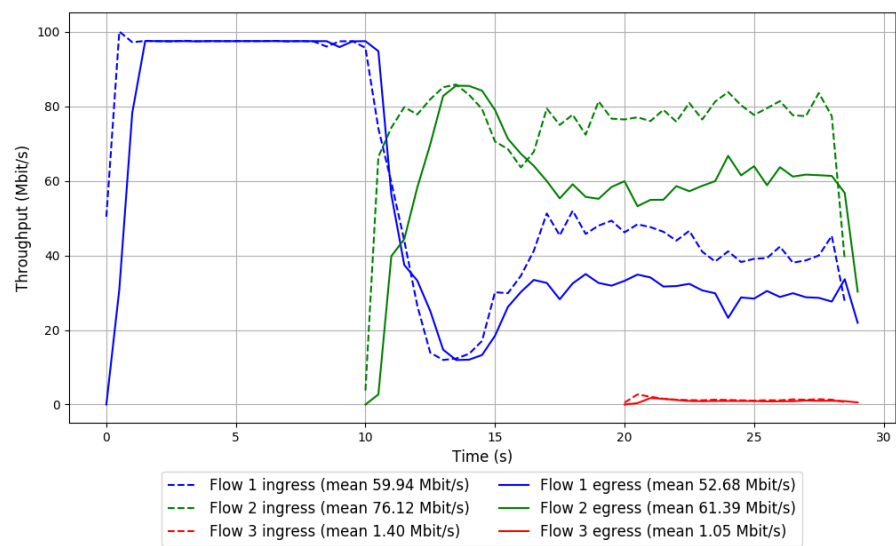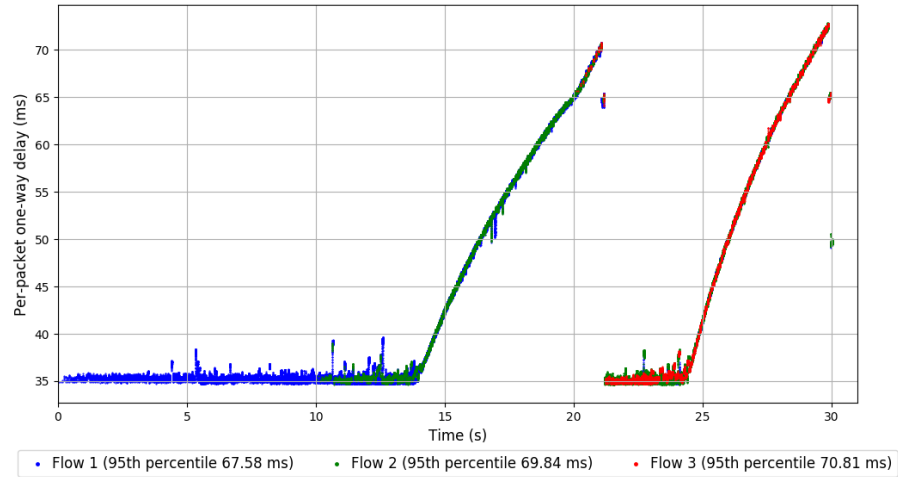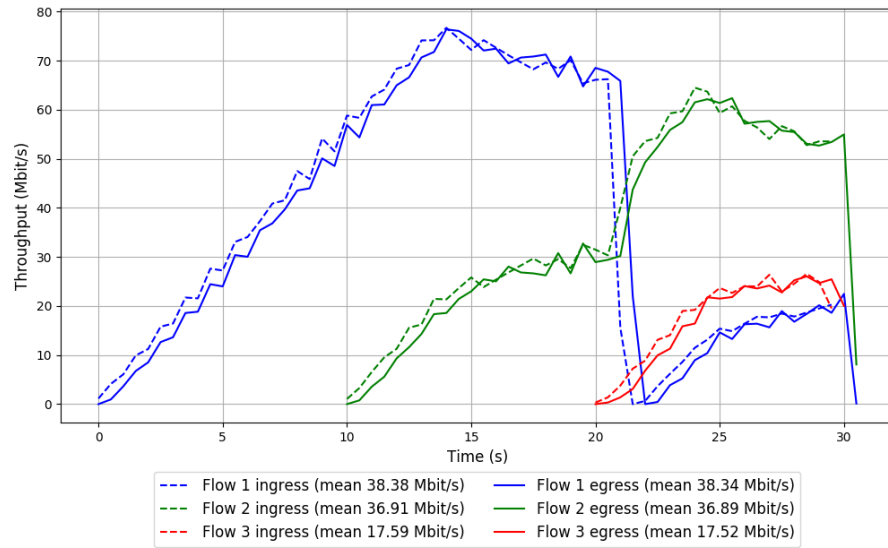
Run 4: Report of Indigo-MusesT — Data Link

- - - - Flow 1 ingress (mean 52.13 Mbit/s)   —— Flow 1 egress (mean 48.57 Mbit/s)
- - - - Flow 2 ingress (mean 72.32 Mbit/s)   —— Flow 2 egress (mean 64.58 Mbit/s)
- - - - Flow 3 ingress (mean 18.60 Mbit/s)   —— Flow 3 egress (mean 13.81 Mbit/s)

- Flow 1 (95th percentile 59.59 ms)   • Flow 2 (95th percentile 66.19 ms)   • Flow 3 (95th percentile 70.19 ms)

```
Run 5: Statistics of Indigo-MusesT

Start at: 2020-02-18 03:29:06
End at: 2020-02-18 03:29:36
Local clock offset: 3.538 ms
Remote clock offset: 6.297 ms


# Below is generated by plot.py at 2020-02-18 04:02:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 68.992 ms
Loss rate: 15.41%
-- Flow 1:
Average throughput: 52.68 Mbit/s
95th percentile per-packet one-way delay: 66.985 ms
Loss rate: 12.10%
-- Flow 2:
Average throughput: 61.39 Mbit/s
95th percentile per-packet one-way delay: 70.289 ms
Loss rate: 19.37%
-- Flow 3:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 70.141 ms
Loss rate: 25.20%
```

Run 5: Report of Indigo-MusesT — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2020-02-18 01:46:56
End at: 2020-02-18 01:47:26
Local clock offset: 3.354 ms
Remote clock offset: 5.935 ms


# Below is generated by plot.py at 2020-02-18 04:02:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.64 Mbit/s
95th percentile per-packet one-way delay: 69.040 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 67.580 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 36.89 Mbit/s
95th percentile per-packet one-way delay: 69.844 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.52 Mbit/s
95th percentile per-packet one-way delay: 70.807 ms
Loss rate: 0.44%
```
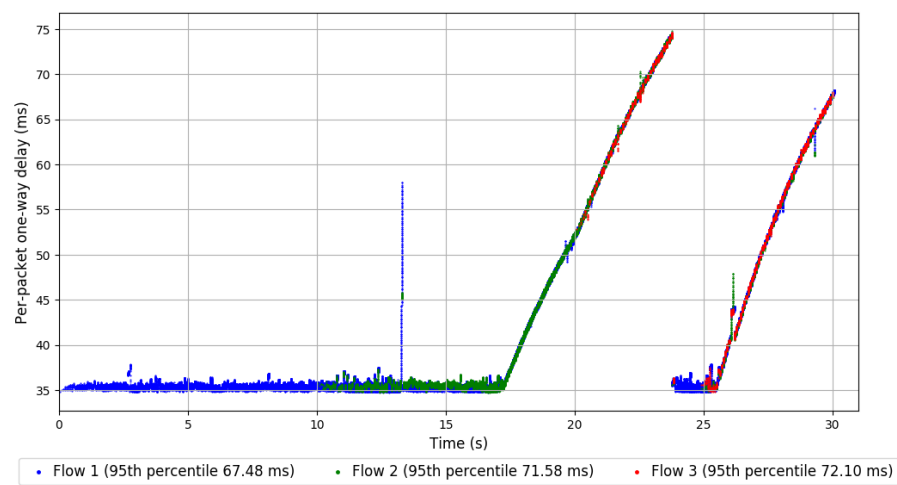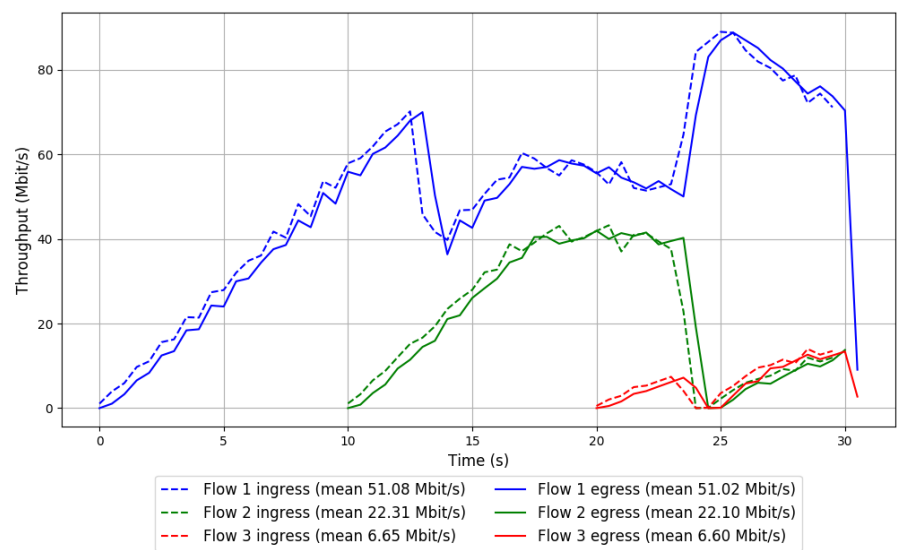
Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 38.38 Mbit/s) --- Flow 1 egress (mean 38.34 Mbit/s)
Flow 2 ingress (mean 36.91 Mbit/s) --- Flow 2 egress (mean 36.89 Mbit/s)
Flow 3 ingress (mean 17.59 Mbit/s) --- Flow 3 egress (mean 17.52 Mbit/s)

Flow 1 (95th percentile 67.58 ms)   Flow 2 (95th percentile 69.84 ms)   Flow 3 (95th percentile 70.81 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2020-02-18 02:19:04
End at: 2020-02-18 02:19:34
Local clock offset: 4.777 ms
Remote clock offset: 6.288 ms


# Below is generated by plot.py at 2020-02-18 04:02:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.89 Mbit/s
95th percentile per-packet one-way delay: 69.174 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 51.02 Mbit/s
95th percentile per-packet one-way delay: 67.481 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 71.581 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 72.103 ms
Loss rate: 0.62%
```
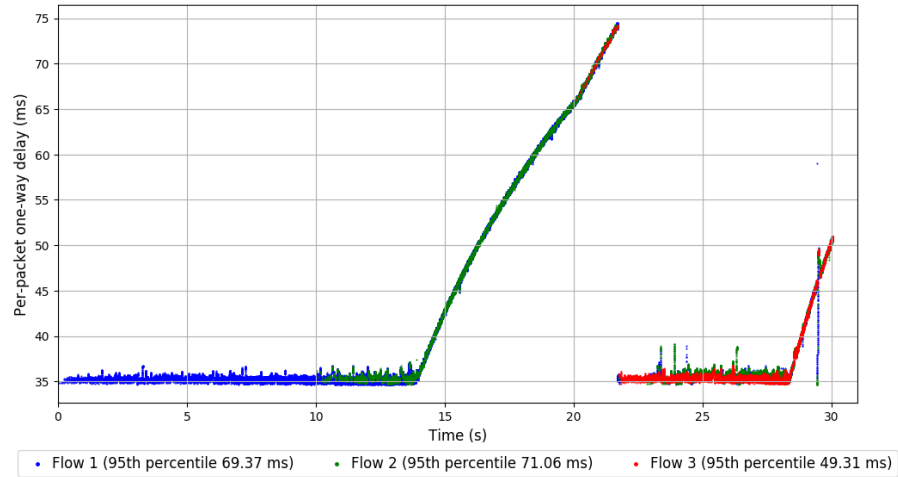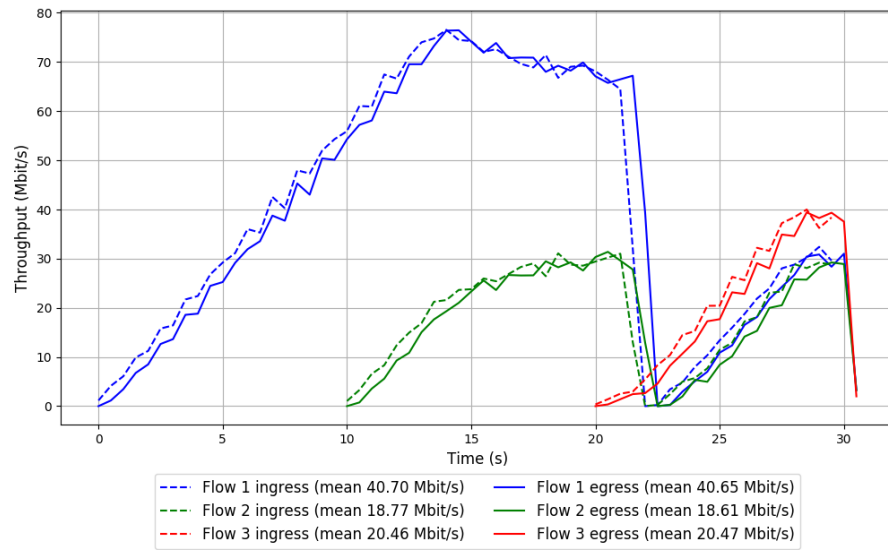
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2020-02-18 02:49:54
End at: 2020-02-18 02:50:24
Local clock offset: 4.998 ms
Remote clock offset: 6.092 ms


# Below is generated by plot.py at 2020-02-18 04:02:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.82 Mbit/s
95th percentile per-packet one-way delay: 69.573 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 69.372 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 71.055 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 49.310 ms
Loss rate: 0.10%
```
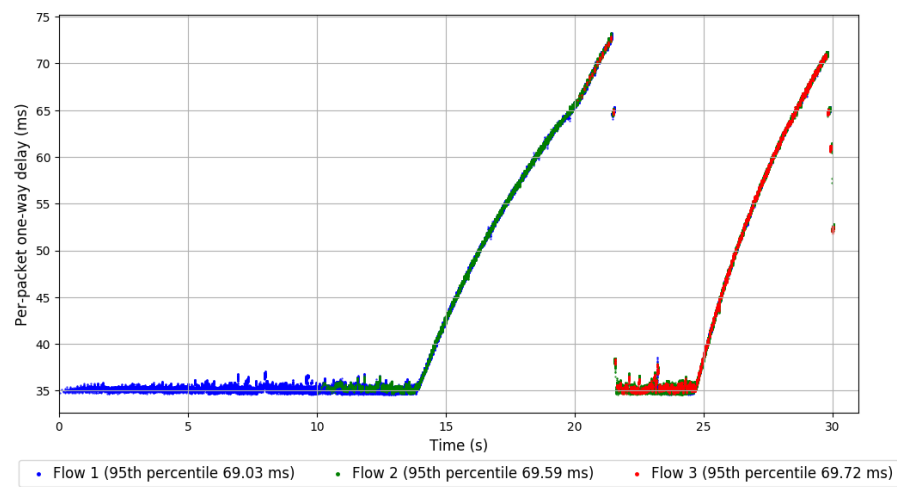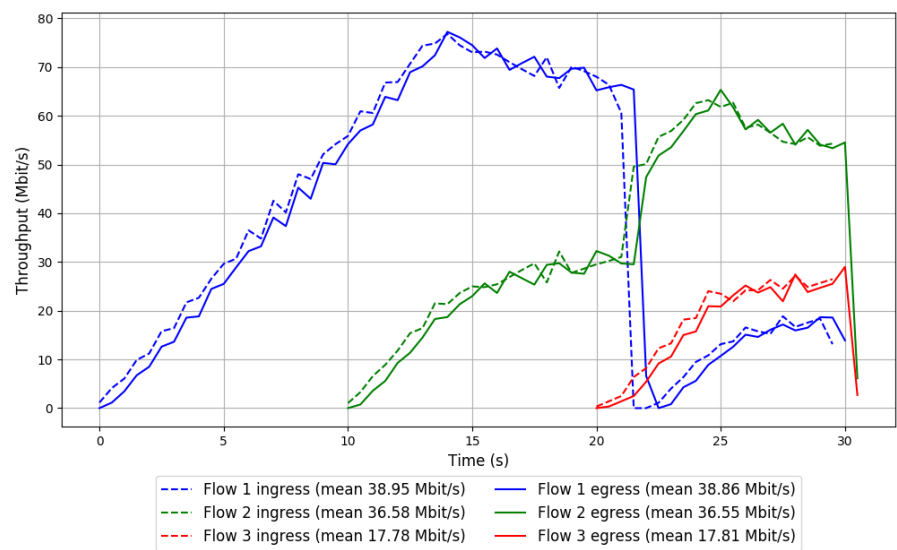
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2020-02-18 03:21:29
End at: 2020-02-18 03:21:59
Local clock offset: 3.443 ms
Remote clock offset: 6.247 ms


# Below is generated by plot.py at 2020-02-18 04:03:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.93 Mbit/s
95th percentile per-packet one-way delay: 69.315 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 69.033 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.55 Mbit/s
95th percentile per-packet one-way delay: 69.589 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 69.720 ms
Loss rate: 0.00%
```
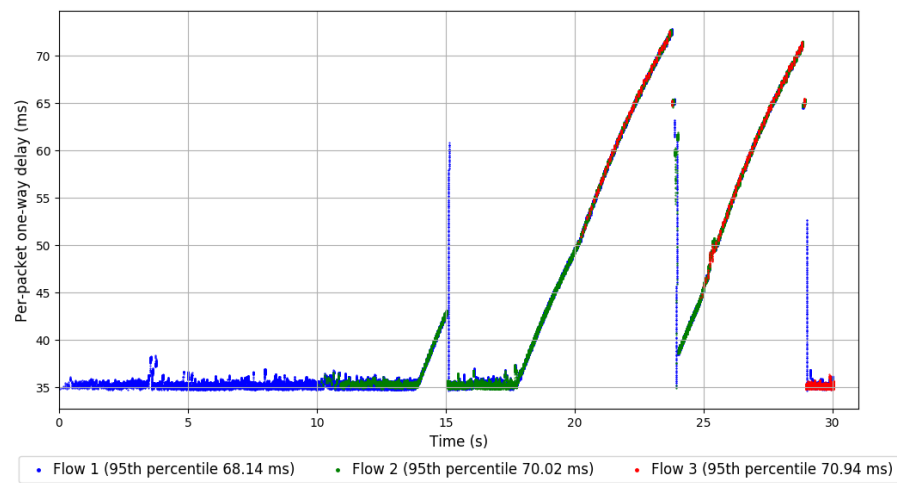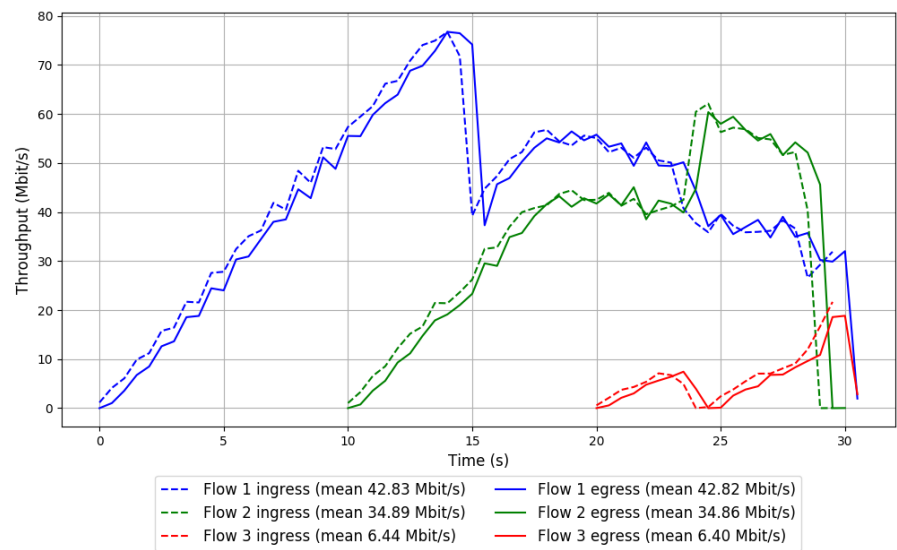
Run 4: Report of LEDBAT — Data Link

- - - - Flow 1 ingress (mean 38.95 Mbit/s) ——— Flow 1 egress (mean 38.86 Mbit/s)
- - - - Flow 2 ingress (mean 36.58 Mbit/s) ——— Flow 2 egress (mean 36.55 Mbit/s)
- - - - Flow 3 ingress (mean 17.78 Mbit/s) ——— Flow 3 egress (mean 17.81 Mbit/s)

• Flow 1 (95th percentile 69.03 ms)   • Flow 2 (95th percentile 69.59 ms)   • Flow 3 (95th percentile 69.72 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2020-02-18 03:51:21
End at: 2020-02-18 03:51:51
Local clock offset: 5.022 ms
Remote clock offset: 6.458 ms


# Below is generated by plot.py at 2020-02-18 04:03:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 69.313 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 42.82 Mbit/s
95th percentile per-packet one-way delay: 68.137 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 70.019 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 70.940 ms
Loss rate: 0.75%
```
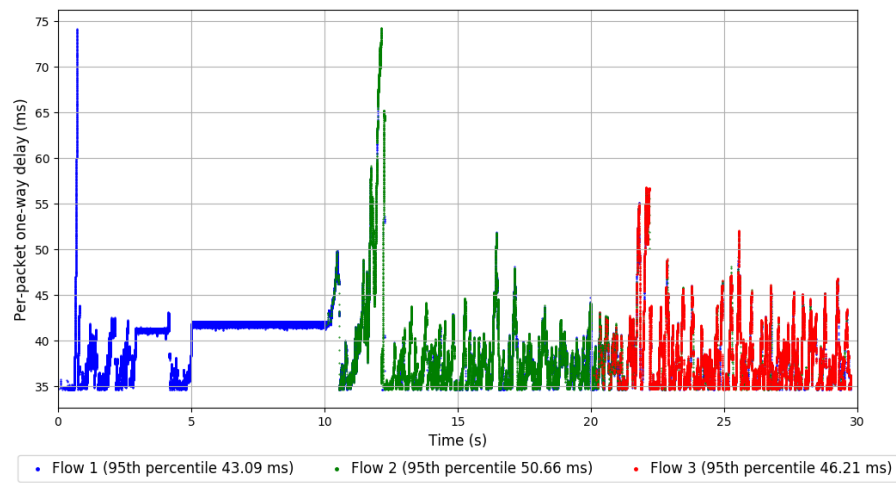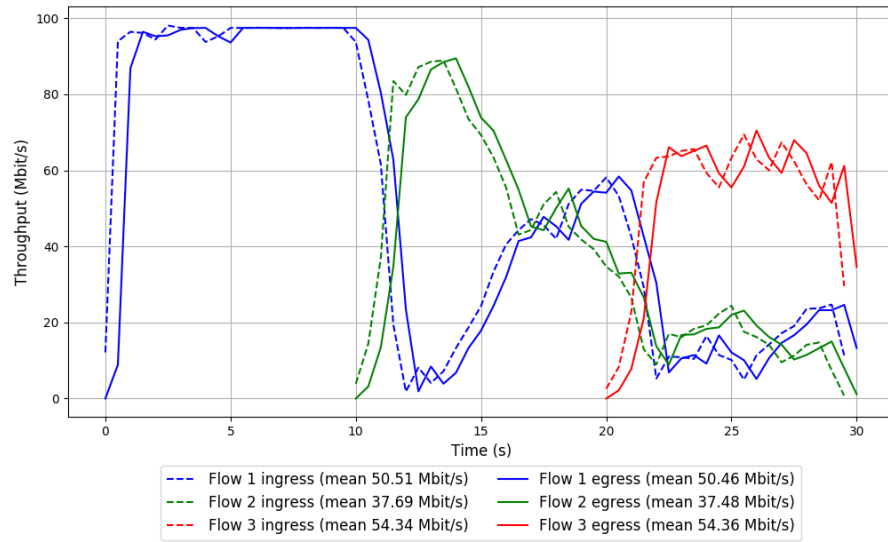
Run 5: Report of LEDBAT — Data Link

- - - - Flow 1 ingress (mean 42.83 Mbit/s)   —— Flow 1 egress (mean 42.82 Mbit/s)
- - - - Flow 2 ingress (mean 34.89 Mbit/s)   —— Flow 2 egress (mean 34.86 Mbit/s)
- - - - Flow 3 ingress (mean 6.44 Mbit/s)   —— Flow 3 egress (mean 6.40 Mbit/s)

- Flow 1 (95th percentile 68.14 ms)   • Flow 2 (95th percentile 70.02 ms)   • Flow 3 (95th percentile 70.94 ms)

Run 1: Statistics of Muses_DecisionTree

Start at: 2020-02-18 01:18:36
End at: 2020-02-18 01:19:06
Local clock offset: 4.727 ms
Remote clock offset: 5.438 ms

Below is generated by plot.py at 2020-02-18 04:03:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 45.237 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 43.088 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 37.48 Mbit/s
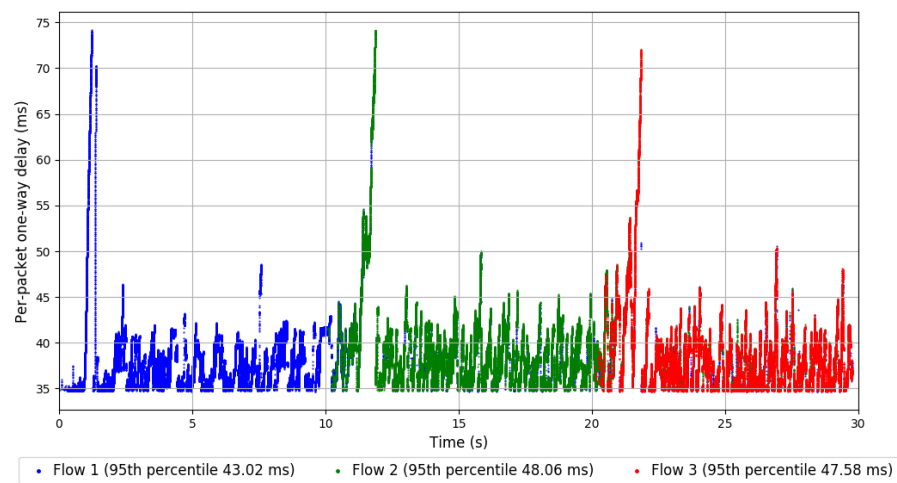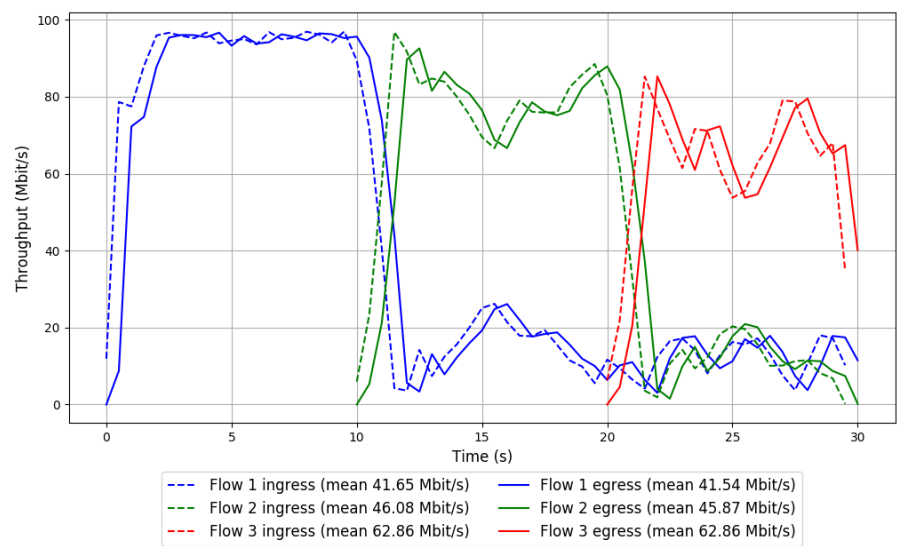95th percentile per-packet one-way delay: 50.660 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 54.36 Mbit/s
95th percentile per-packet one-way delay: 46.209 ms
Loss rate: 0.00%

Run 1: Report of Muses_DecisionTree — Data Link

```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 01:49:44
End at: 2020-02-18 01:50:14
Local clock offset: 3.257 ms
Remote clock offset: 5.911 ms


# Below is generated by plot.py at 2020-02-18 04:03:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 45.769 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 41.54 Mbit/s
95th percentile per-packet one-way delay: 43.020 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 45.87 Mbit/s
95th percentile per-packet one-way delay: 48.061 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 62.86 Mbit/s
95th percentile per-packet one-way delay: 47.579 ms
Loss rate: 0.00%
```
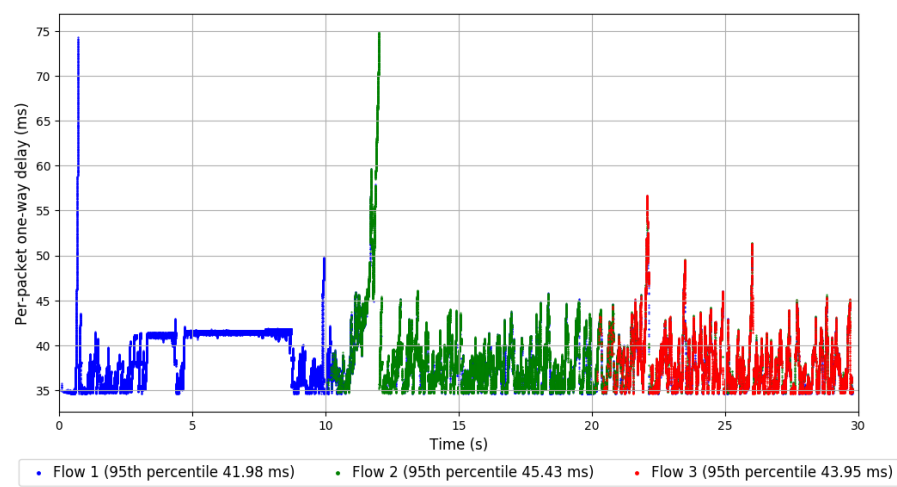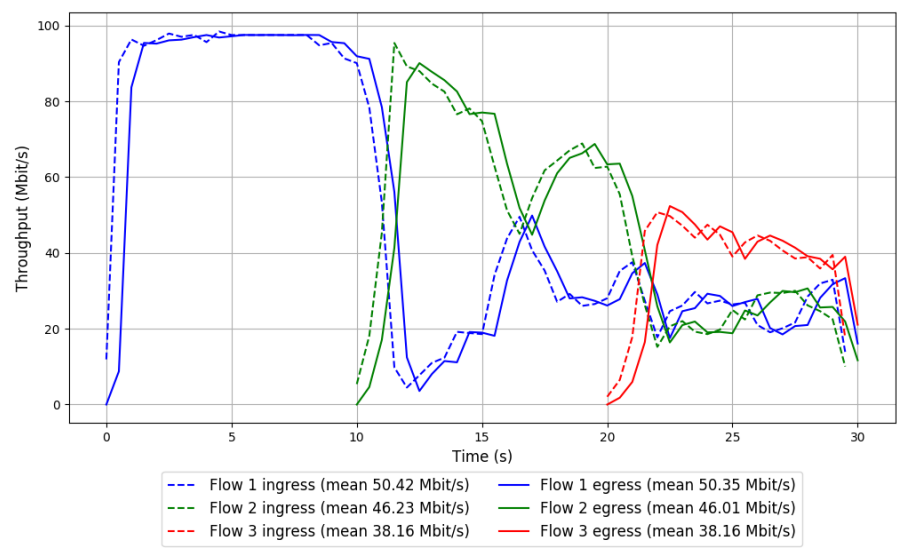
Run 2: Report of Muses_DecisionTree — Data Link

```
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 02:21:38
End at: 2020-02-18 02:22:08
Local clock offset: 4.855 ms
Remote clock offset: 6.159 ms


# Below is generated by plot.py at 2020-02-18 04:03:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.25 Mbit/s
95th percentile per-packet one-way delay: 43.309 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 41.982 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 46.01 Mbit/s
95th percentile per-packet one-way delay: 45.433 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 43.949 ms
Loss rate: 0.00%
```
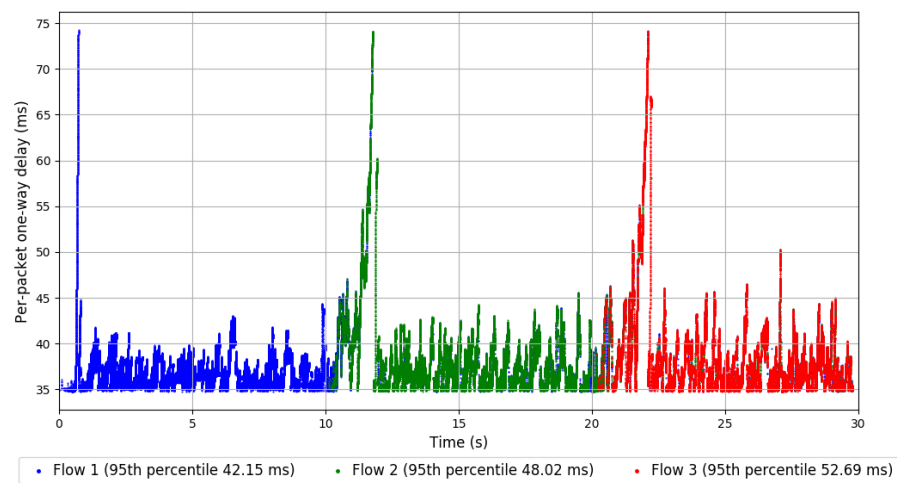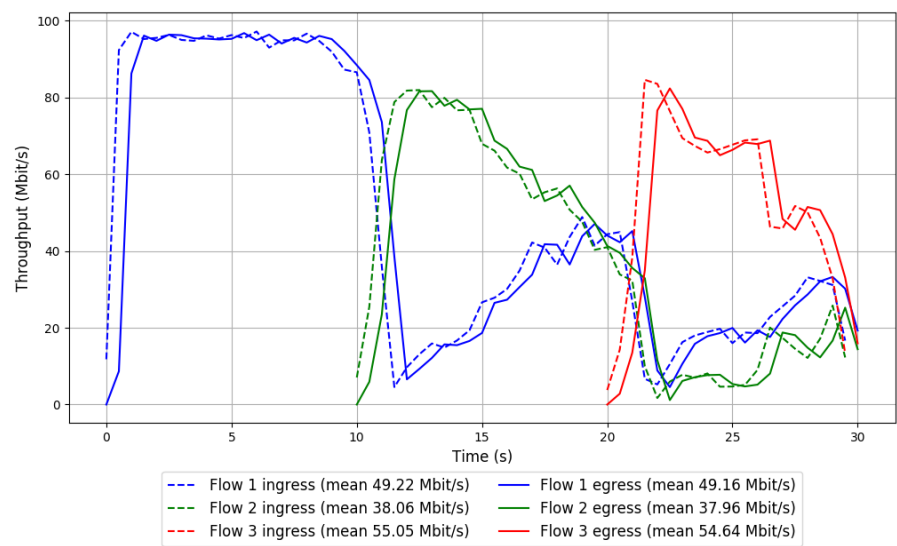
Run 3: Report of Muses_DecisionTree — Data Link

```
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 02:52:45
End at: 2020-02-18 02:53:15
Local clock offset: 5.064 ms
Remote clock offset: 6.152 ms


# Below is generated by plot.py at 2020-02-18 04:03:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.98 Mbit/s
95th percentile per-packet one-way delay: 44.435 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 49.16 Mbit/s
95th percentile per-packet one-way delay: 42.152 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 48.025 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 54.64 Mbit/s
95th percentile per-packet one-way delay: 52.689 ms
Loss rate: 0.78%
```
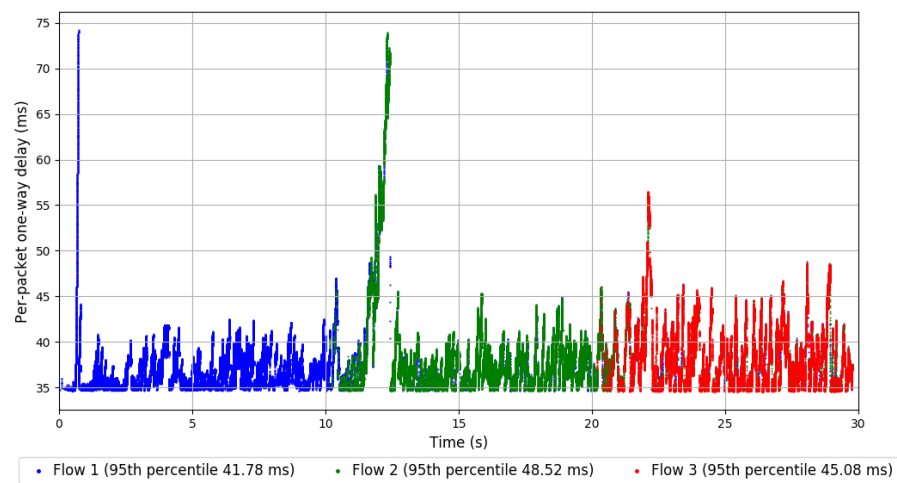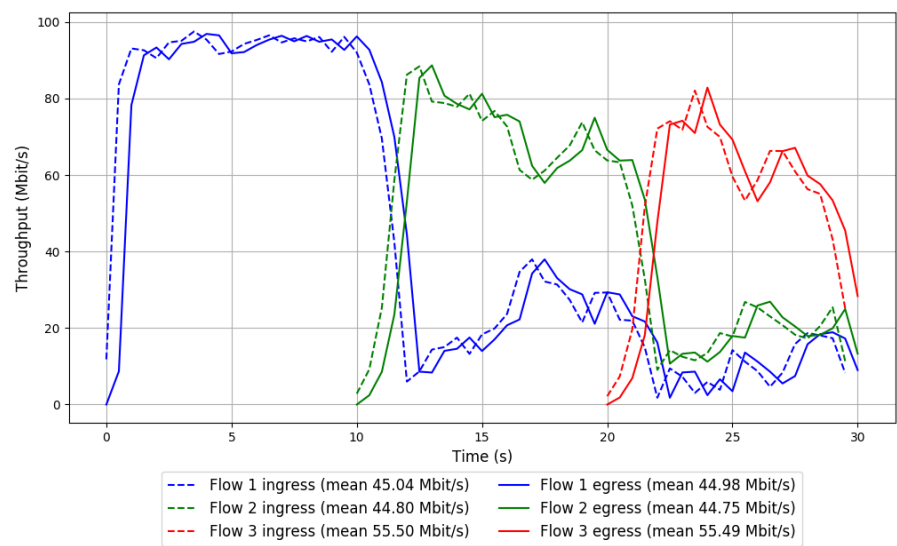
Run 4: Report of Muses_DecisionTree — Data Link

Flow 1 ingress (mean 49.22 Mbit/s) --- Flow 1 egress (mean 49.16 Mbit/s)
Flow 2 ingress (mean 38.06 Mbit/s) --- Flow 2 egress (mean 37.96 Mbit/s)
Flow 3 ingress (mean 55.05 Mbit/s) --- Flow 3 egress (mean 54.64 Mbit/s)

Flow 1 (95th percentile 42.15 ms)   Flow 2 (95th percentile 48.02 ms)   Flow 3 (95th percentile 52.69 ms)

```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 03:24:02
End at: 2020-02-18 03:24:32
Local clock offset: 3.44 ms
Remote clock offset: 6.333 ms


# Below is generated by plot.py at 2020-02-18 04:03:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 44.305 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.98 Mbit/s
95th percentile per-packet one-way delay: 41.777 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 44.75 Mbit/s
95th percentile per-packet one-way delay: 48.521 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 55.49 Mbit/s
95th percentile per-packet one-way delay: 45.076 ms
Loss rate: 0.00%
```

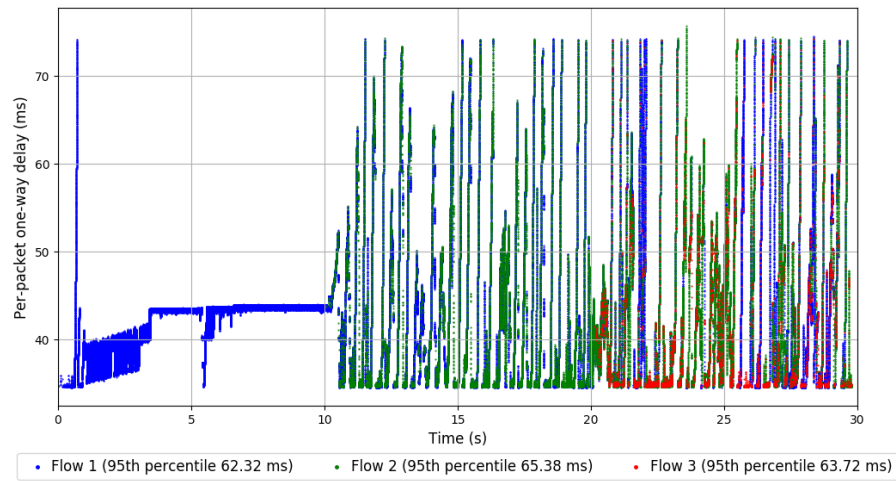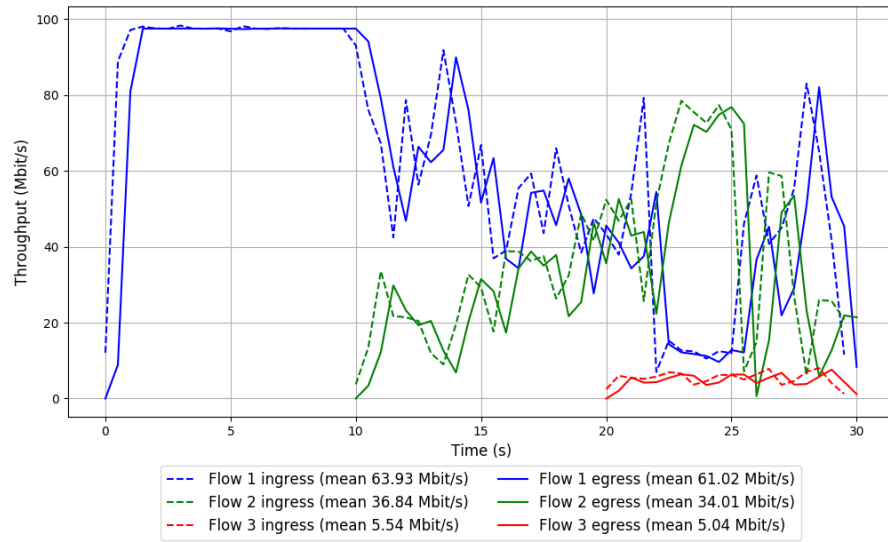Run 5: Report of Muses_DecisionTree — Data Link

Flow 1 ingress (mean 45.04 Mbit/s) --- Flow 1 egress (mean 44.98 Mbit/s)
Flow 2 ingress (mean 44.80 Mbit/s) --- Flow 2 egress (mean 44.75 Mbit/s)
Flow 3 ingress (mean 55.50 Mbit/s) --- Flow 3 egress (mean 55.49 Mbit/s)

Flow 1 (95th percentile 41.78 ms) Flow 2 (95th percentile 48.52 ms) Flow 3 (95th percentile 45.08 ms)

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```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 01:36:50
End at: 2020-02-18 01:37:20
Local clock offset: 3.87 ms
Remote clock offset: 5.803 ms


# Below is generated by plot.py at 2020-02-18 04:03:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 63.159 ms
Loss rate: 5.50%
-- Flow 1:
Average throughput: 61.02 Mbit/s
95th percentile per-packet one-way delay: 62.321 ms
Loss rate: 4.55%
-- Flow 2:
Average throughput: 34.01 Mbit/s
95th percentile per-packet one-way delay: 65.384 ms
Loss rate: 7.72%
-- Flow 3:
Average throughput: 5.04 Mbit/s
95th percentile per-packet one-way delay: 63.716 ms
Loss rate: 9.14%
```
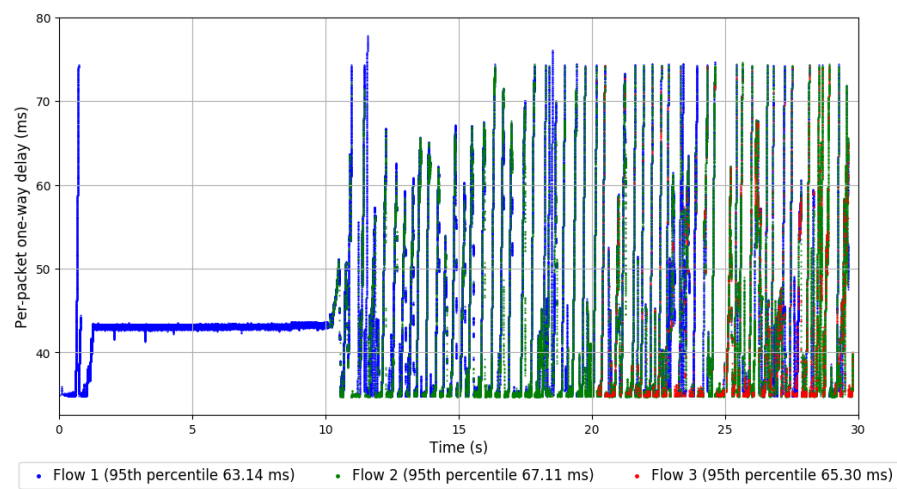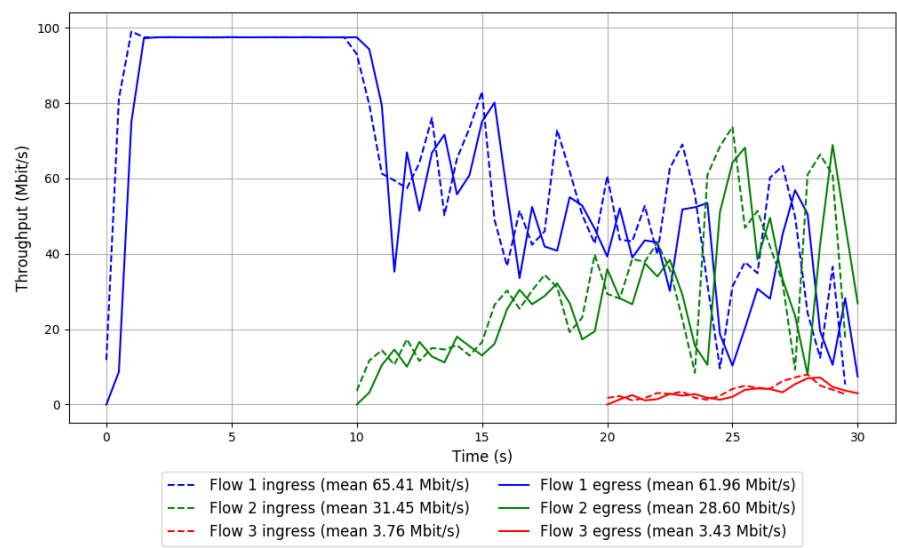
Run 1: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 63.93 Mbit/s)
Flow 1 egress (mean 61.02 Mbit/s)
Flow 2 ingress (mean 36.84 Mbit/s)
Flow 2 egress (mean 34.01 Mbit/s)
Flow 3 ingress (mean 5.54 Mbit/s)
Flow 3 egress (mean 5.04 Mbit/s)

Flow 1 (95th percentile 62.32 ms)
Flow 2 (95th percentile 65.38 ms)
Flow 3 (95th percentile 63.72 ms)

Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2020-02-18 02:08:53
End at: 2020-02-18 02:09:23
Local clock offset: 4.381 ms
Remote clock offset: 6.106 ms

Below is generated by plot.py at 2020-02-18 04:04:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.01 Mbit/s
95th percentile per-packet one-way delay: 64.382 ms
Loss rate: 6.22%
-- Flow 1:
Average throughput: 61.96 Mbit/s
95th percentile per-packet one-way delay: 63.141 ms
Loss rate: 5.26%
-- Flow 2:
Average throughput: 28.60 Mbit/s
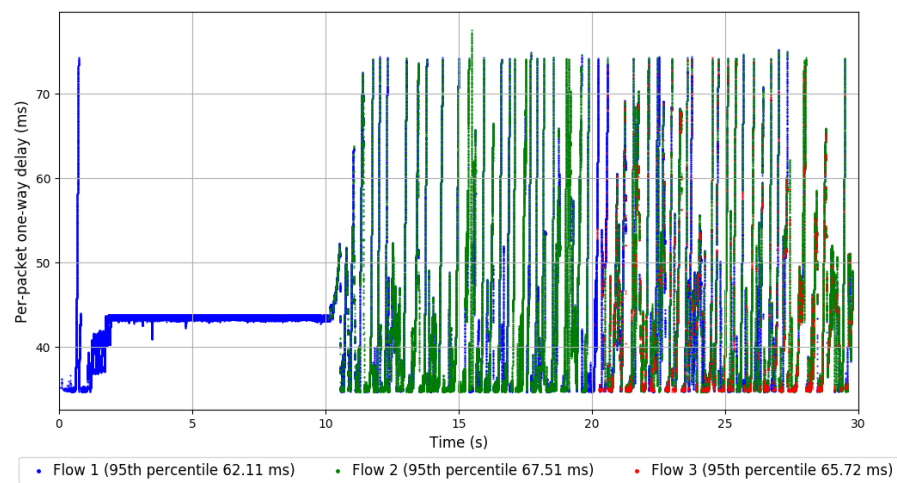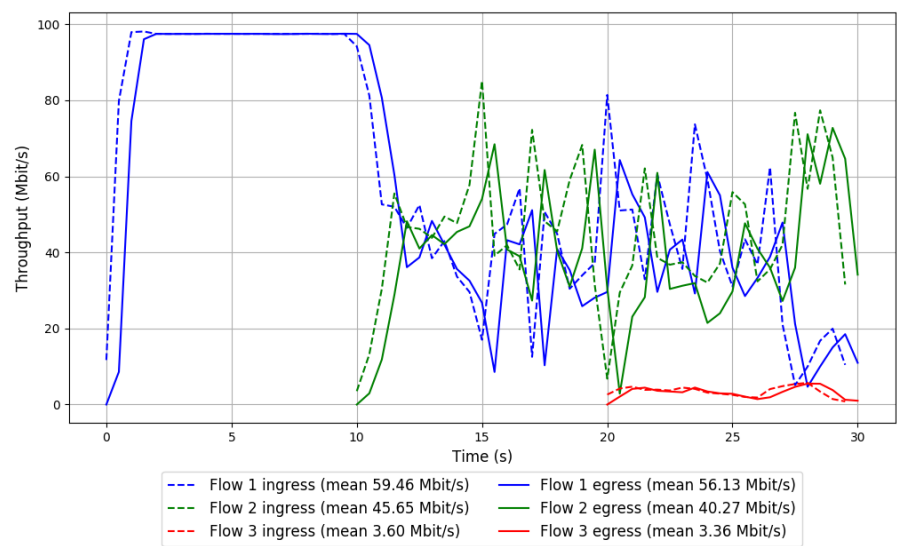95th percentile per-packet one-way delay: 67.108 ms
Loss rate: 9.07%
-- Flow 3:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 65.296 ms
Loss rate: 9.02%

Run 2: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 65.41 Mbit/s) Flow 1 egress (mean 61.96 Mbit/s)
Flow 2 ingress (mean 31.45 Mbit/s) Flow 2 egress (mean 28.60 Mbit/s)
Flow 3 ingress (mean 3.76 Mbit/s) Flow 3 egress (mean 3.43 Mbit/s)

Flow 1 (95th percentile 63.14 ms)   Flow 2 (95th percentile 67.11 ms)   Flow 3 (95th percentile 65.30 ms)

Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2020-02-18 02:39:40
End at: 2020-02-18 02:40:10
Local clock offset: 4.964 ms
Remote clock offset: 5.998 ms

Below is generated by plot.py at 2020-02-18 04:04:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.86 Mbit/s
95th percentile per-packet one-way delay: 64.788 ms
Loss rate: 7.65%
-- Flow 1:
Average throughput: 56.13 Mbit/s
95th percentile per-packet one-way delay: 62.110 ms
Loss rate: 5.57%
-- Flow 2:
Average throughput: 40.27 Mbit/s
95th percentile per-packet one-way delay: 67.510 ms
Loss rate: 11.77%
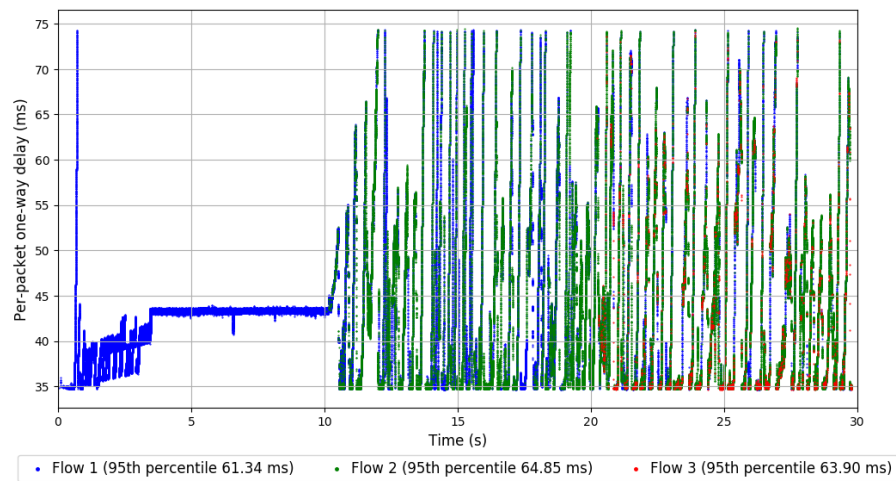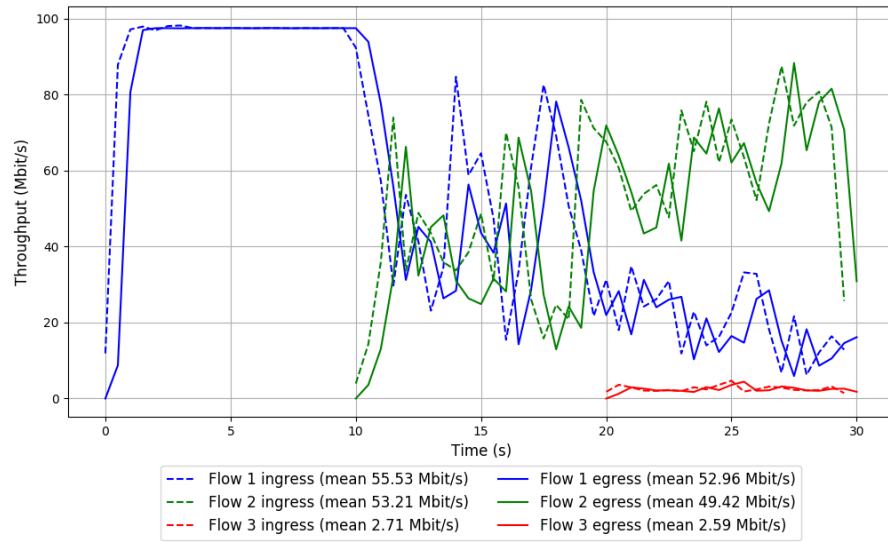-- Flow 3:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 65.720 ms
Loss rate: 6.55%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 03:11:29
End at: 2020-02-18 03:11:59
Local clock offset: 3.799 ms
Remote clock offset: 6.31 ms


# Below is generated by plot.py at 2020-02-18 04:04:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 63.286 ms
Loss rate: 5.60%
-- Flow 1:
Average throughput: 52.96 Mbit/s
95th percentile per-packet one-way delay: 61.336 ms
Loss rate: 4.63%
-- Flow 2:
Average throughput: 49.42 Mbit/s
95th percentile per-packet one-way delay: 64.846 ms
Loss rate: 7.16%
-- Flow 3:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 63.900 ms
Loss rate: 4.60%
```
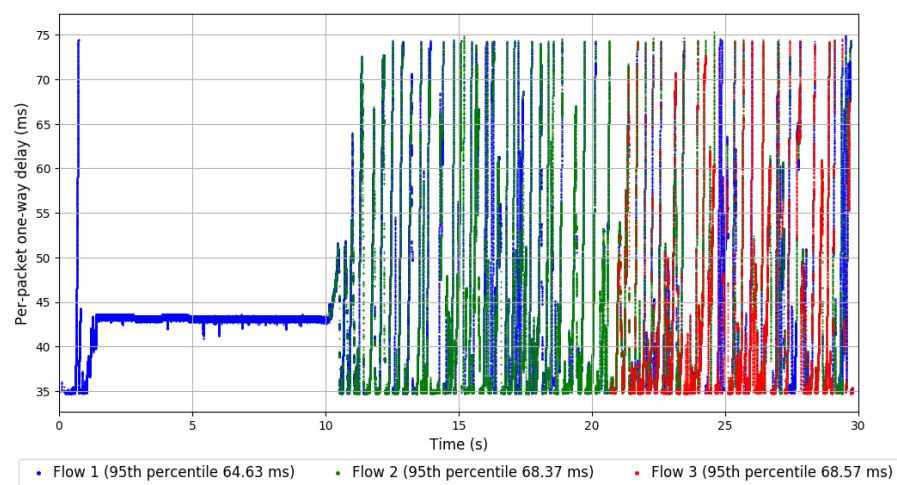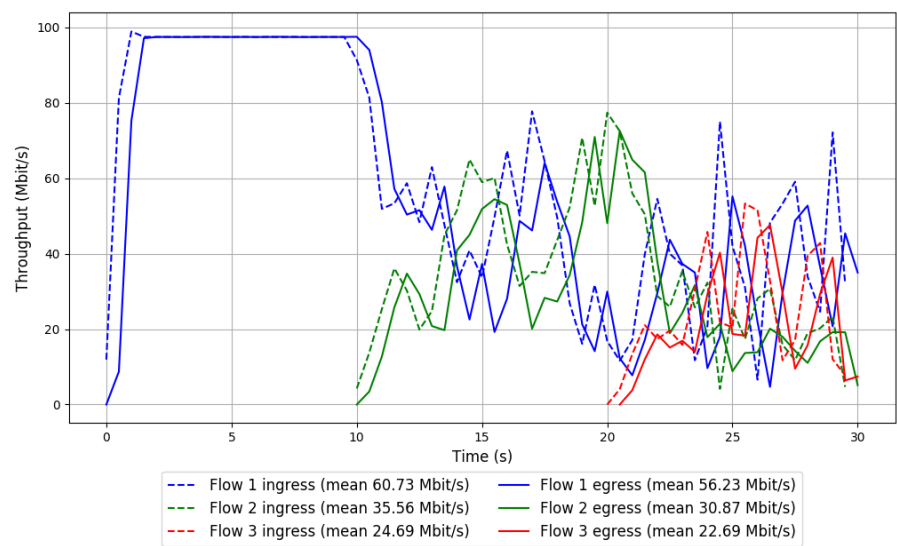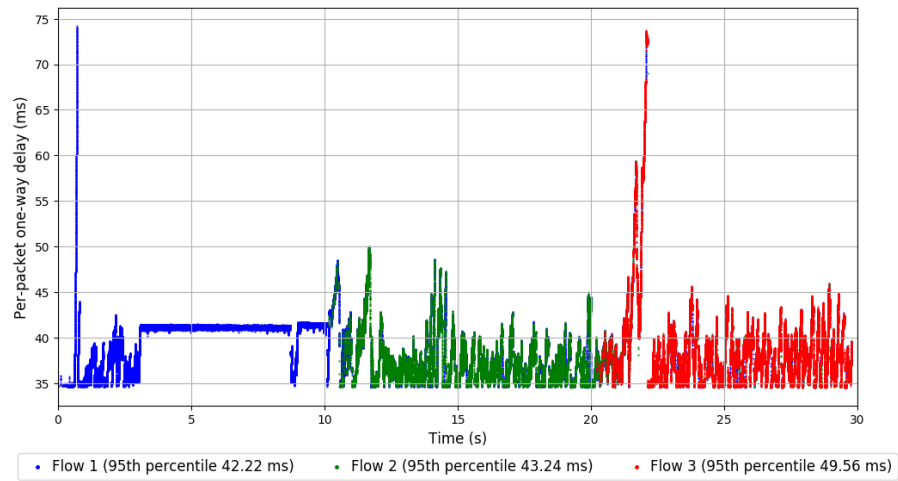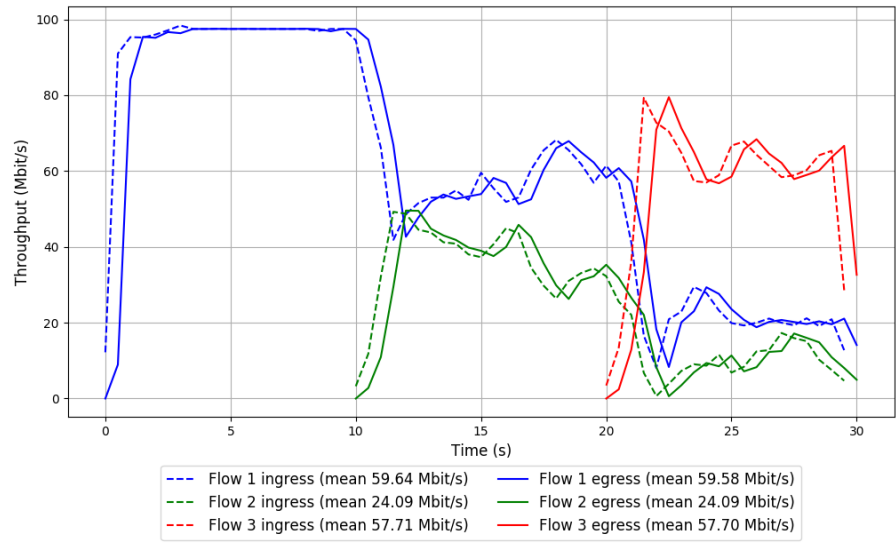
Run 4: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 55.53 Mbit/s) --- Flow 1 egress (mean 52.96 Mbit/s)
Flow 2 ingress (mean 53.21 Mbit/s) --- Flow 2 egress (mean 49.42 Mbit/s)
Flow 3 ingress (mean 2.71 Mbit/s) --- Flow 3 egress (mean 2.59 Mbit/s)

Flow 1 (95th percentile 61.34 ms)   Flow 2 (95th percentile 64.85 ms)   Flow 3 (95th percentile 63.90 ms)

```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 03:41:44
End at: 2020-02-18 03:42:14
Local clock offset: 4.701 ms
Remote clock offset: 6.364 ms


# Below is generated by plot.py at 2020-02-18 04:04:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 66.357 ms
Loss rate: 9.39%
-- Flow 1:
Average throughput: 56.23 Mbit/s
95th percentile per-packet one-way delay: 64.634 ms
Loss rate: 7.41%
-- Flow 2:
Average throughput: 30.87 Mbit/s
95th percentile per-packet one-way delay: 68.367 ms
Loss rate: 13.22%
-- Flow 3:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 68.573 ms
Loss rate: 13.08%
```
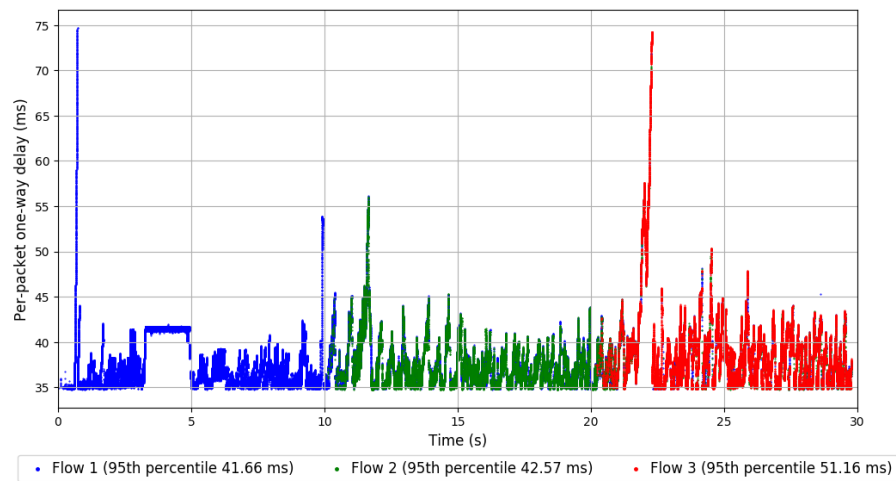
Run 5: Report of Muses_DecisionTreeH0 — Data Link

Flow 1 ingress (mean 60.73 Mbit/s)   Flow 1 egress (mean 56.23 Mbit/s)
Flow 2 ingress (mean 35.56 Mbit/s)   Flow 2 egress (mean 30.87 Mbit/s)
Flow 3 ingress (mean 24.69 Mbit/s)   Flow 3 egress (mean 22.69 Mbit/s)

Flow 1 (95th percentile 64.63 ms)   Flow 2 (95th percentile 68.37 ms)   Flow 3 (95th percentile 68.57 ms)

```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 01:35:21
End at: 2020-02-18 01:35:51
Local clock offset: 3.967 ms
Remote clock offset: 5.761 ms


# Below is generated by plot.py at 2020-02-18 04:04:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 43.230 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 59.58 Mbit/s
95th percentile per-packet one-way delay: 42.215 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 43.241 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.70 Mbit/s
95th percentile per-packet one-way delay: 49.558 ms
Loss rate: 0.00%
```
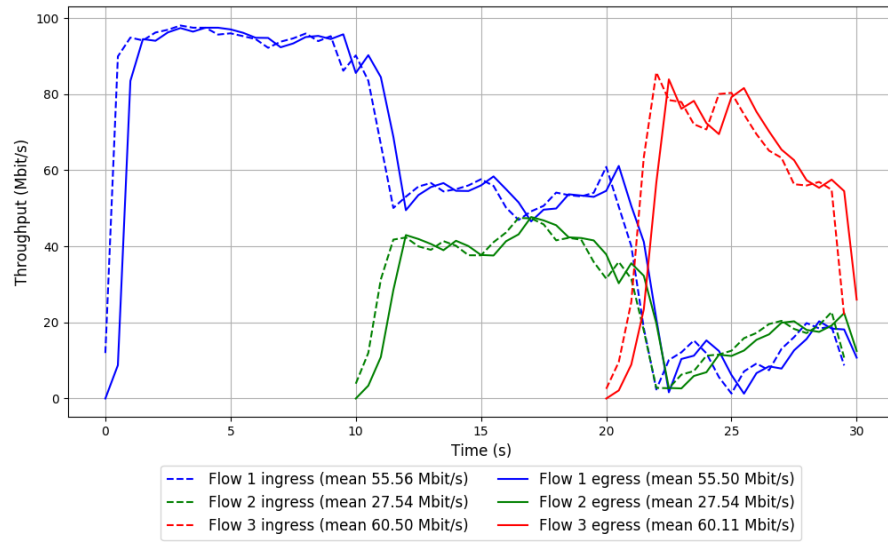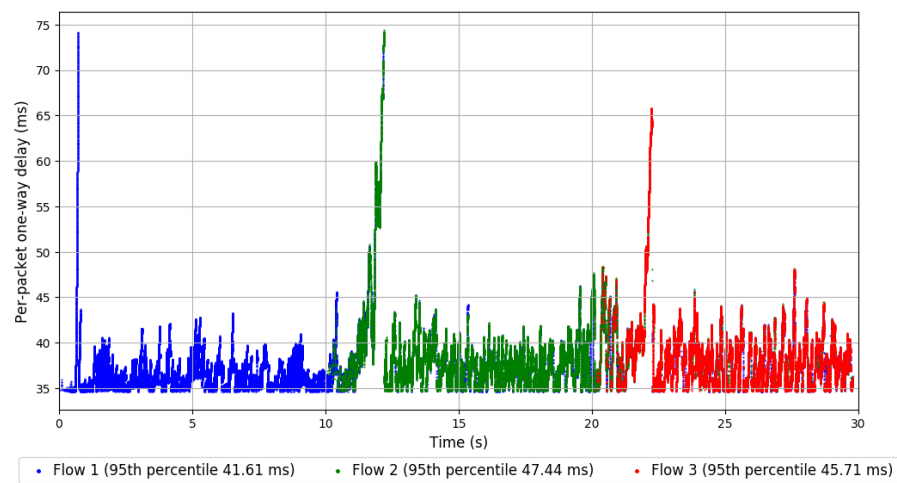
Run 1: Report of Muses_DecisionTreeR0 — Data Link

```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 02:07:33
End at: 2020-02-18 02:08:03
Local clock offset: 4.299 ms
Remote clock offset: 6.064 ms


# Below is generated by plot.py at 2020-02-18 04:04:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 42.789 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 55.50 Mbit/s
95th percentile per-packet one-way delay: 41.664 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 27.54 Mbit/s
95th percentile per-packet one-way delay: 42.567 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.11 Mbit/s
95th percentile per-packet one-way delay: 51.159 ms
Loss rate: 0.68%
```
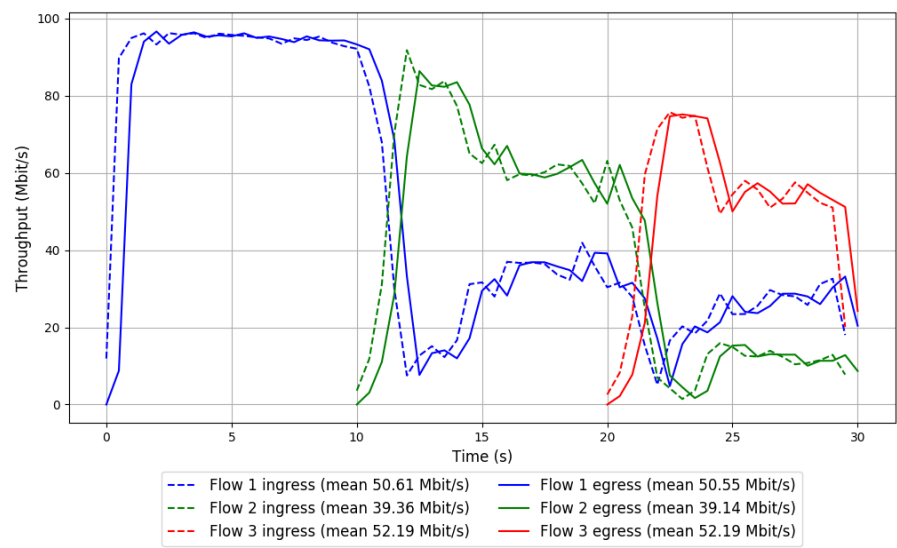
Run 2: Report of Muses_DecisionTreeR0 — Data Link

```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 02:38:22
End at: 2020-02-18 02:38:52
Local clock offset: 4.944 ms
Remote clock offset: 5.996 ms


# Below is generated by plot.py at 2020-02-18 04:04:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.42 Mbit/s
95th percentile per-packet one-way delay: 43.382 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 50.55 Mbit/s
95th percentile per-packet one-way delay: 41.607 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 39.14 Mbit/s
95th percentile per-packet one-way delay: 47.440 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 52.19 Mbit/s
95th percentile per-packet one-way delay: 45.712 ms
Loss rate: 0.00%
```
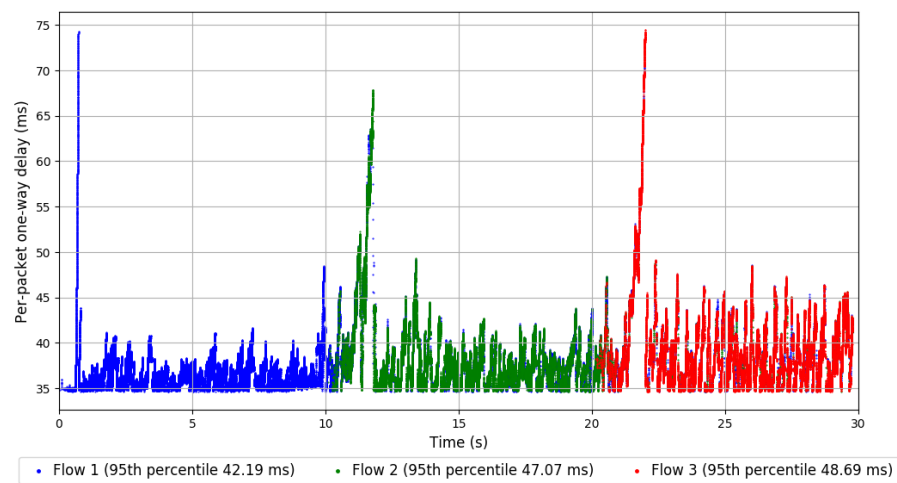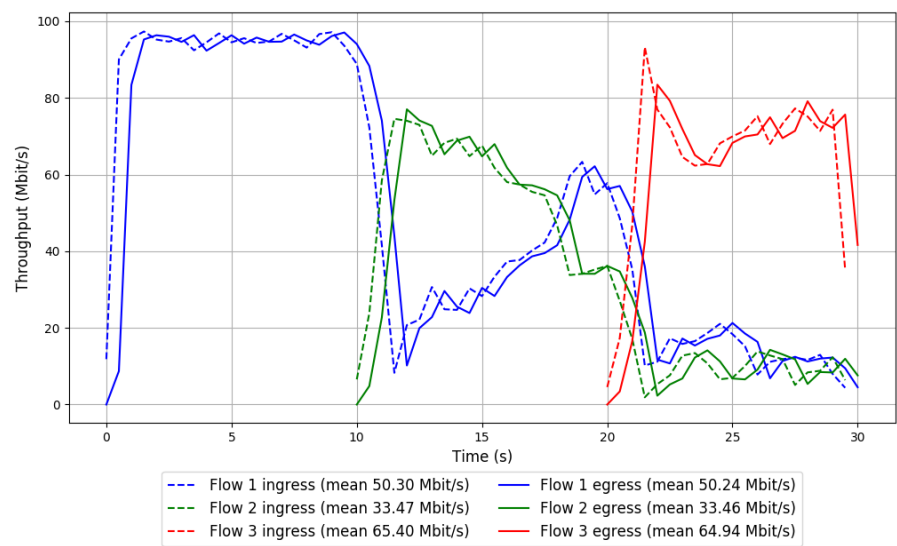
Run 3: Report of Muses_DecisionTreeR0 — Data Link

```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 03:10:08
End at: 2020-02-18 03:10:38
Local clock offset: 3.856 ms
Remote clock offset: 6.222 ms


# Below is generated by plot.py at 2020-02-18 04:05:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 44.844 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 42.186 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 33.46 Mbit/s
95th percentile per-packet one-way delay: 47.067 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.94 Mbit/s
95th percentile per-packet one-way delay: 48.688 ms
Loss rate: 0.69%
```
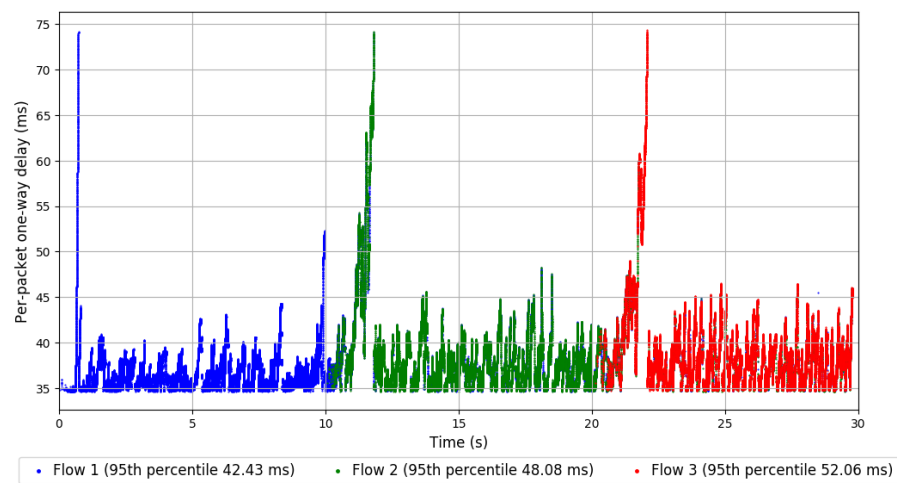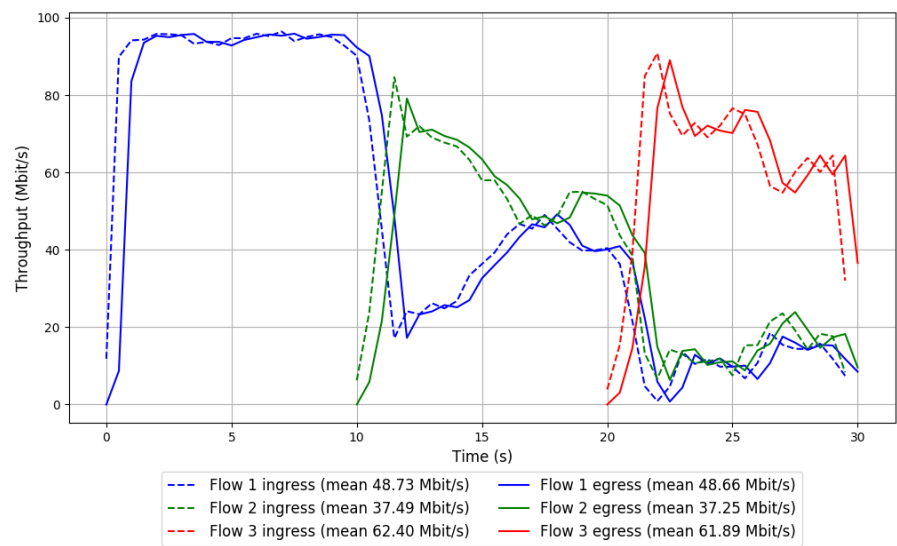
Run 4: Report of Muses_DecisionTreeR0 — Data Link

```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 03:40:15
End at: 2020-02-18 03:40:45
Local clock offset: 4.631 ms
Remote clock offset: 6.282 ms


# Below is generated by plot.py at 2020-02-18 04:05:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 44.881 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 48.66 Mbit/s
95th percentile per-packet one-way delay: 42.427 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 37.25 Mbit/s
95th percentile per-packet one-way delay: 48.082 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 61.89 Mbit/s
95th percentile per-packet one-way delay: 52.063 ms
Loss rate: 0.72%
```

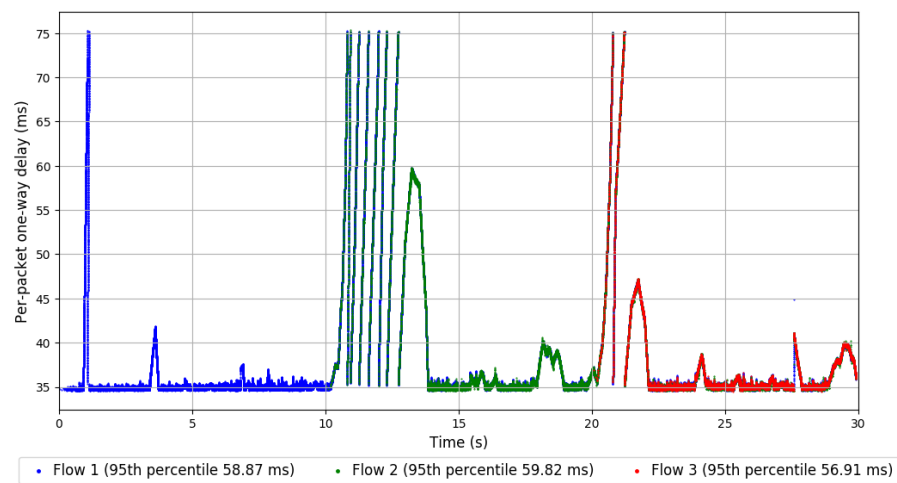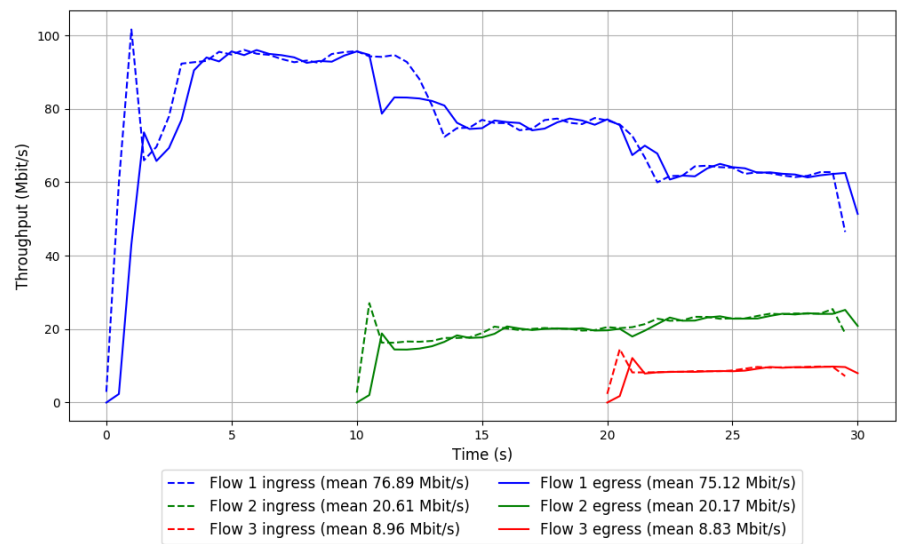Run 5: Report of Muses_DecisionTreeR0 — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2020-02-18 01:34:06
End at: 2020-02-18 01:34:36
Local clock offset: 4.06 ms
Remote clock offset: 5.718 ms


# Below is generated by plot.py at 2020-02-18 04:05:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 58.973 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 75.12 Mbit/s
95th percentile per-packet one-way delay: 58.872 ms
Loss rate: 2.30%
-- Flow 2:
Average throughput: 20.17 Mbit/s
95th percentile per-packet one-way delay: 59.818 ms
Loss rate: 2.12%
-- Flow 3:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 56.907 ms
Loss rate: 1.47%
```
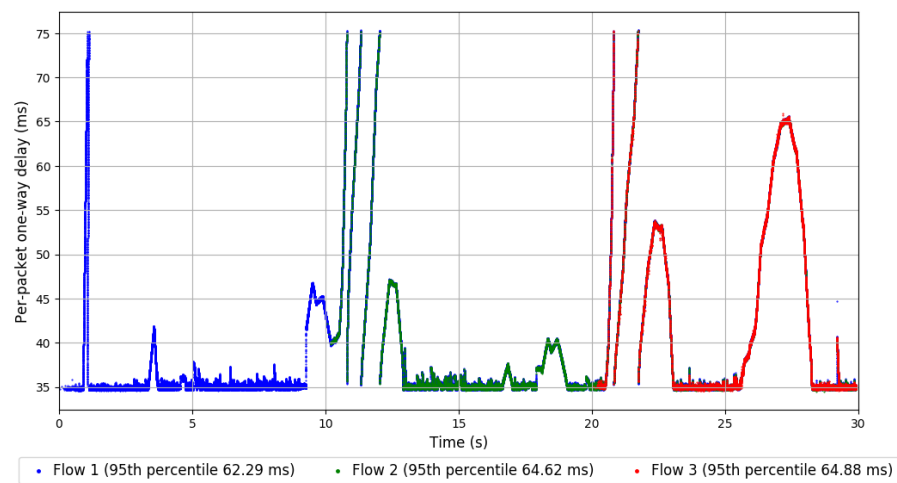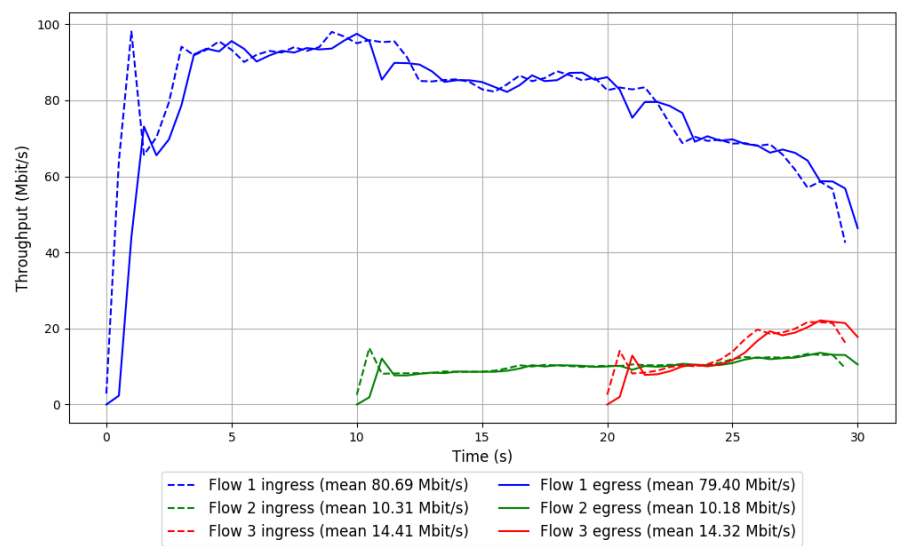
Run 1: Report of PCC-Allegro — Data Link

- - - Flow 1 ingress (mean 76.89 Mbit/s) ——— Flow 1 egress (mean 75.12 Mbit/s)
- - - Flow 2 ingress (mean 20.61 Mbit/s) ——— Flow 2 egress (mean 20.17 Mbit/s)
- - - Flow 3 ingress (mean 8.96 Mbit/s) ——— Flow 3 egress (mean 8.83 Mbit/s)

- Flow 1 (95th percentile 58.87 ms)   • Flow 2 (95th percentile 59.82 ms)   • Flow 3 (95th percentile 56.91 ms)

```
Run 2: Statistics of PCC-Allegro

Start at: 2020-02-18 02:06:16
End at: 2020-02-18 02:06:46
Local clock offset: 4.208 ms
Remote clock offset: 5.934 ms


# Below is generated by plot.py at 2020-02-18 04:05:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.88 Mbit/s
95th percentile per-packet one-way delay: 62.988 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 79.40 Mbit/s
95th percentile per-packet one-way delay: 62.287 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 10.18 Mbit/s
95th percentile per-packet one-way delay: 64.617 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 64.880 ms
Loss rate: 0.64%
```
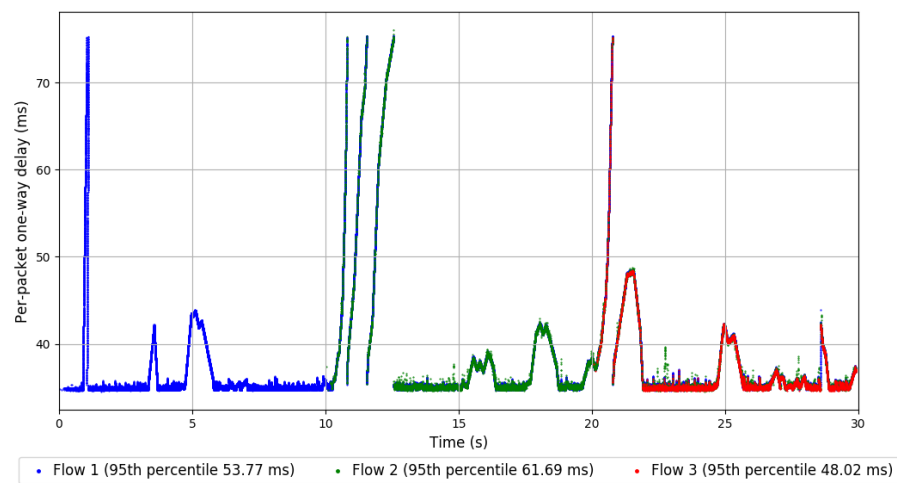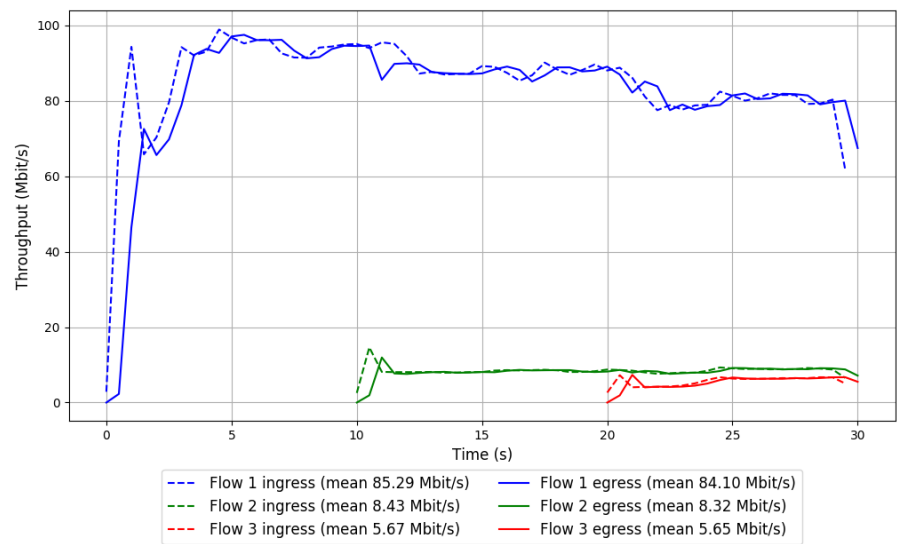
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2020-02-18 02:37:05
End at: 2020-02-18 02:37:35
Local clock offset: 4.969 ms
Remote clock offset: 6.054 ms


# Below is generated by plot.py at 2020-02-18 04:05:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 54.170 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 84.10 Mbit/s
95th percentile per-packet one-way delay: 53.771 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 61.688 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 48.023 ms
Loss rate: 0.28%
```
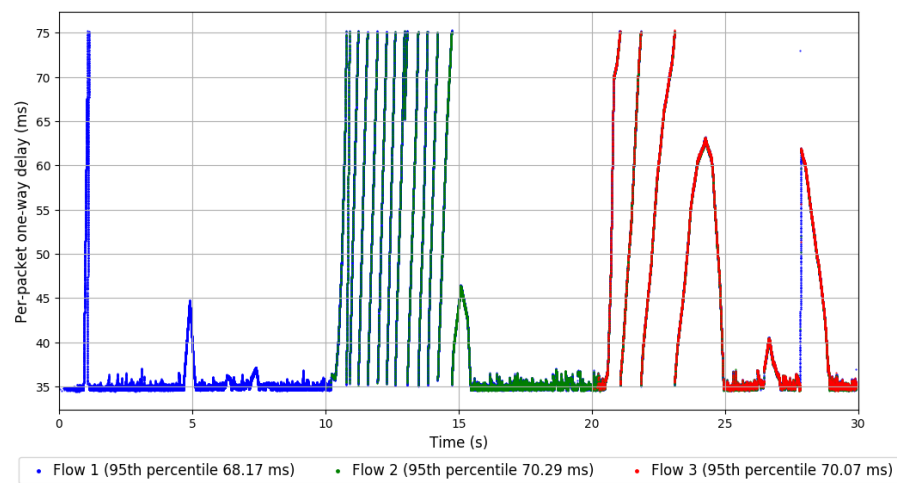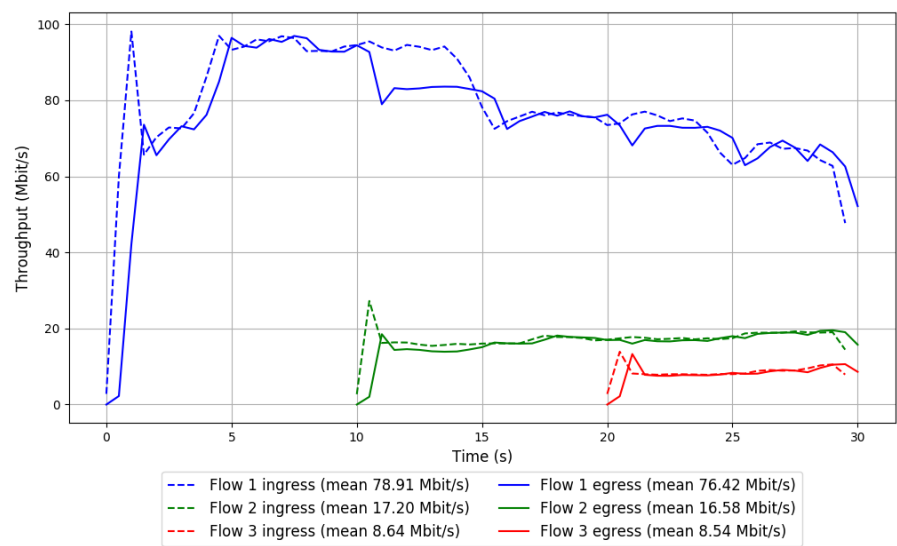
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 85.29 Mbit/s)   Flow 1 egress (mean 84.10 Mbit/s)
Flow 2 ingress (mean 8.43 Mbit/s)   Flow 2 egress (mean 8.32 Mbit/s)
Flow 3 ingress (mean 5.67 Mbit/s)   Flow 3 egress (mean 5.65 Mbit/s)

Flow 1 (95th percentile 53.77 ms)   Flow 2 (95th percentile 61.69 ms)   Flow 3 (95th percentile 48.02 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2020-02-18 03:08:52
End at: 2020-02-18 03:09:22
Local clock offset: 3.931 ms
Remote clock offset: 6.167 ms


# Below is generated by plot.py at 2020-02-18 04:06:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 68.621 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 76.42 Mbit/s
95th percentile per-packet one-way delay: 68.169 ms
Loss rate: 3.14%
-- Flow 2:
Average throughput: 16.58 Mbit/s
95th percentile per-packet one-way delay: 70.294 ms
Loss rate: 3.66%
-- Flow 3:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: 70.071 ms
Loss rate: 1.13%
```
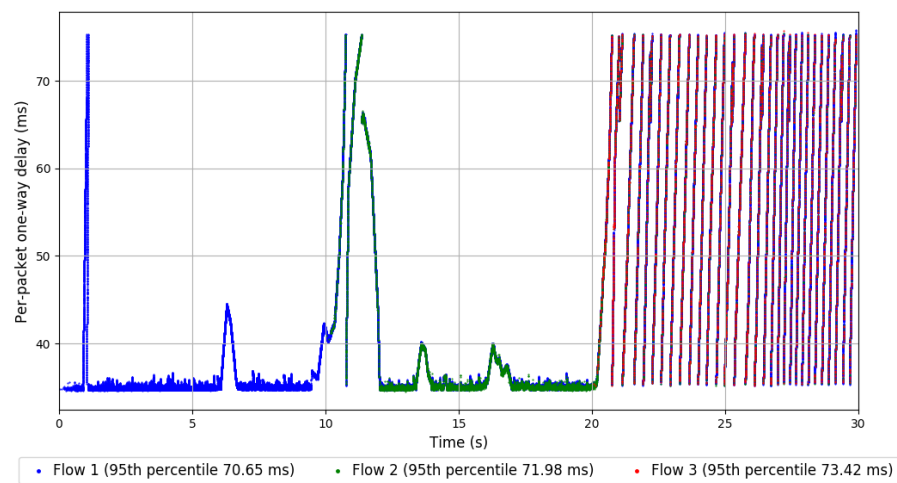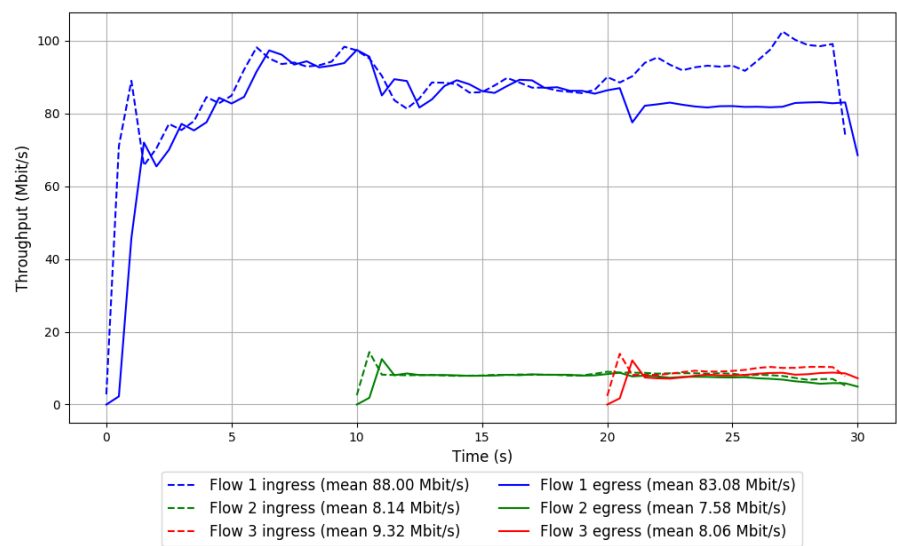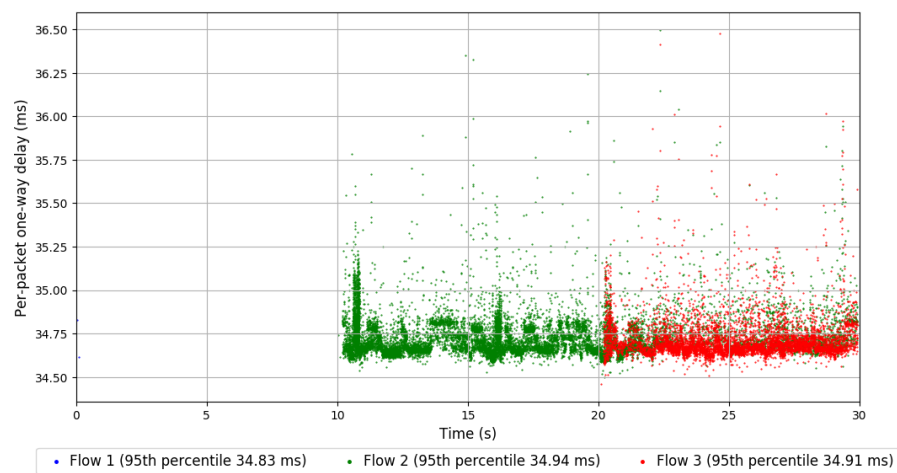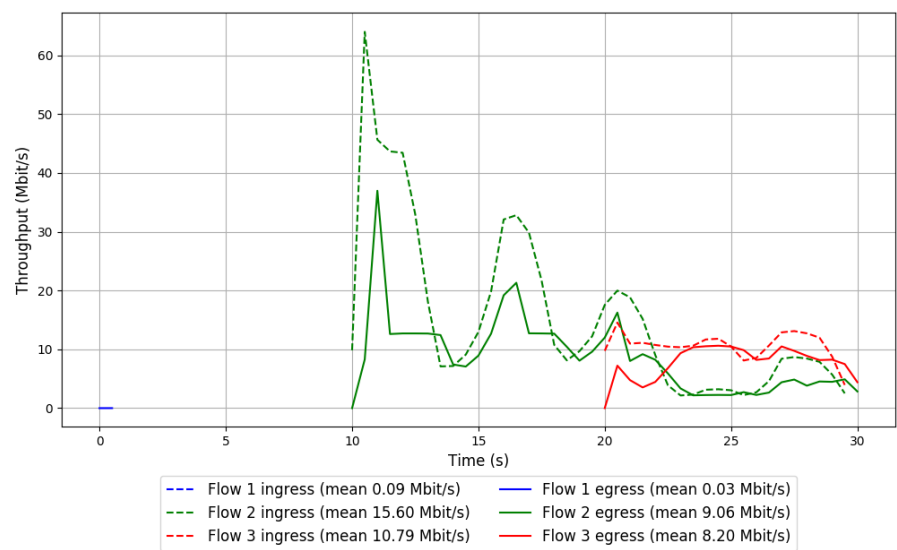
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 78.91 Mbit/s) --- Flow 1 egress (mean 76.42 Mbit/s)
Flow 2 ingress (mean 17.20 Mbit/s) --- Flow 2 egress (mean 16.58 Mbit/s)
Flow 3 ingress (mean 8.64 Mbit/s) --- Flow 3 egress (mean 8.54 Mbit/s)

Flow 1 (95th percentile 68.17 ms) Flow 2 (95th percentile 70.29 ms) Flow 3 (95th percentile 70.07 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2020-02-18 03:39:01
End at: 2020-02-18 03:39:31
Local clock offset: 4.587 ms
Remote clock offset: 6.328 ms


# Below is generated by plot.py at 2020-02-18 04:06:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.78 Mbit/s
95th percentile per-packet one-way delay: 70.951 ms
Loss rate: 5.91%
-- Flow 1:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 70.649 ms
Loss rate: 5.58%
-- Flow 2:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 71.978 ms
Loss rate: 6.89%
-- Flow 3:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 73.416 ms
Loss rate: 13.45%
```

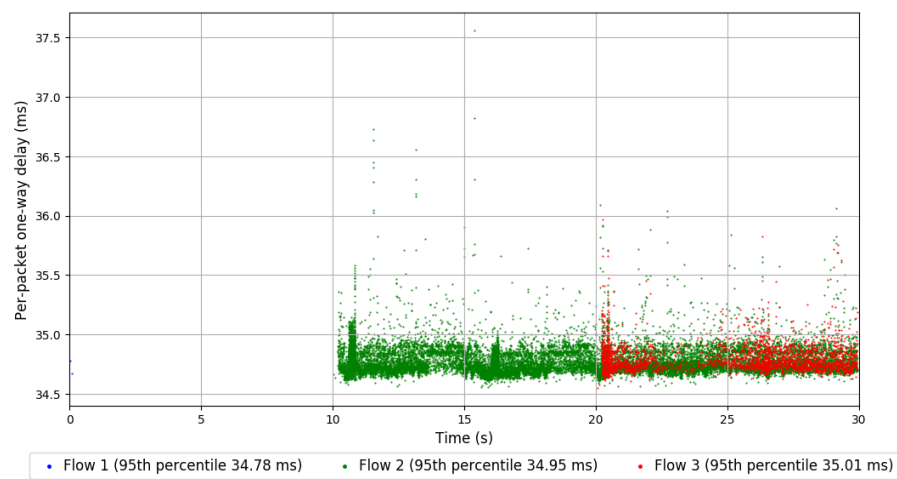## Run 5: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2020-02-18 01:40:29
End at: 2020-02-18 01:40:59
Local clock offset: 3.649 ms
Remote clock offset: 5.768 ms


# Below is generated by plot.py at 2020-02-18 04:06:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 34.932 ms
Loss rate: 37.33%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 34.827 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 34.943 ms
Loss rate: 41.91%
-- Flow 3:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 34.911 ms
Loss rate: 24.00%
```
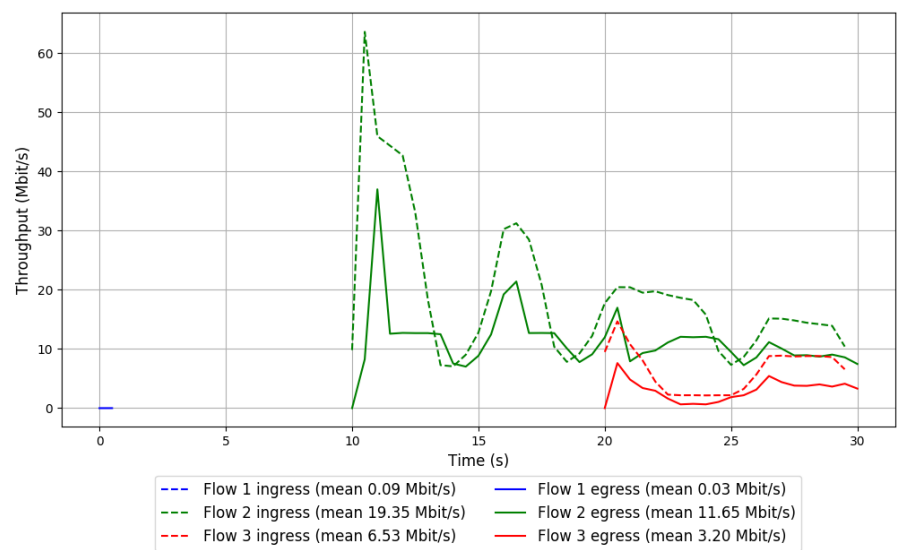
Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2020-02-18 02:12:39
End at: 2020-02-18 02:13:09
Local clock offset: 4.605 ms
Remote clock offset: 6.128 ms


# Below is generated by plot.py at 2020-02-18 04:06:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 34.958 ms
Loss rate: 41.42%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 34.779 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 34.951 ms
Loss rate: 39.81%
-- Flow 3:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 35.009 ms
Loss rate: 50.99%
```
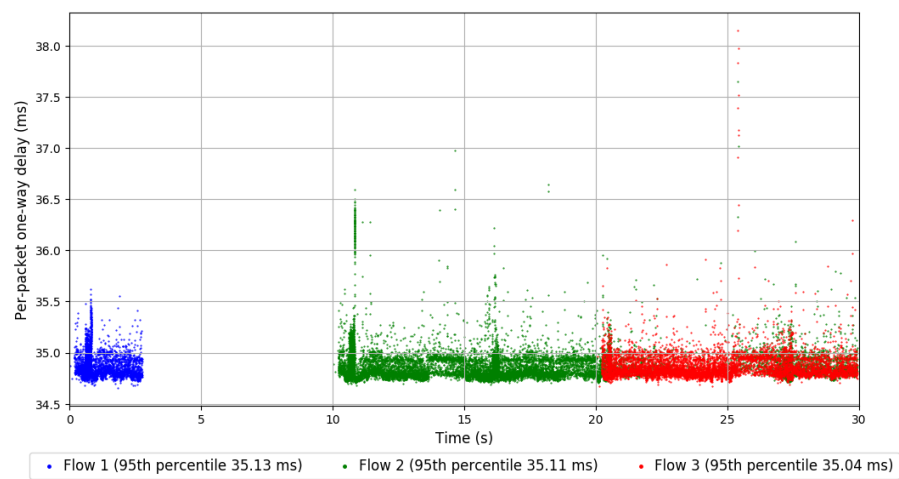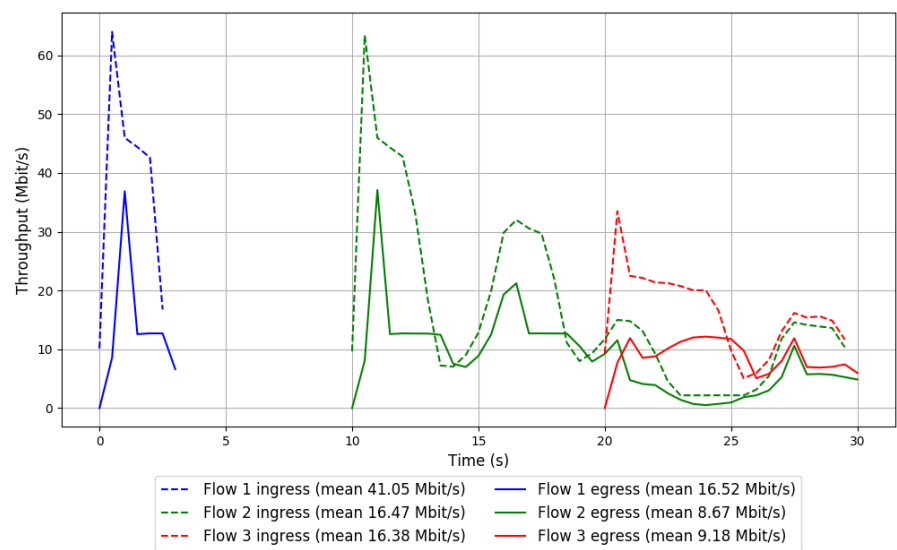
Run 2: Report of PCC-Expr — Data Link

```
Run 3: Statistics of PCC-Expr

Start at: 2020-02-18 02:43:18
End at: 2020-02-18 02:43:48
Local clock offset: 4.977 ms
Remote clock offset: 6.084 ms


# Below is generated by plot.py at 2020-02-18 04:06:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 35.089 ms
Loss rate: 48.74%
-- Flow 1:
Average throughput: 16.52 Mbit/s
95th percentile per-packet one-way delay: 35.130 ms
Loss rate: 59.77%
-- Flow 2:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 35.109 ms
Loss rate: 47.34%
-- Flow 3:
Average throughput: 9.18 Mbit/s
95th percentile per-packet one-way delay: 35.039 ms
Loss rate: 43.94%
```
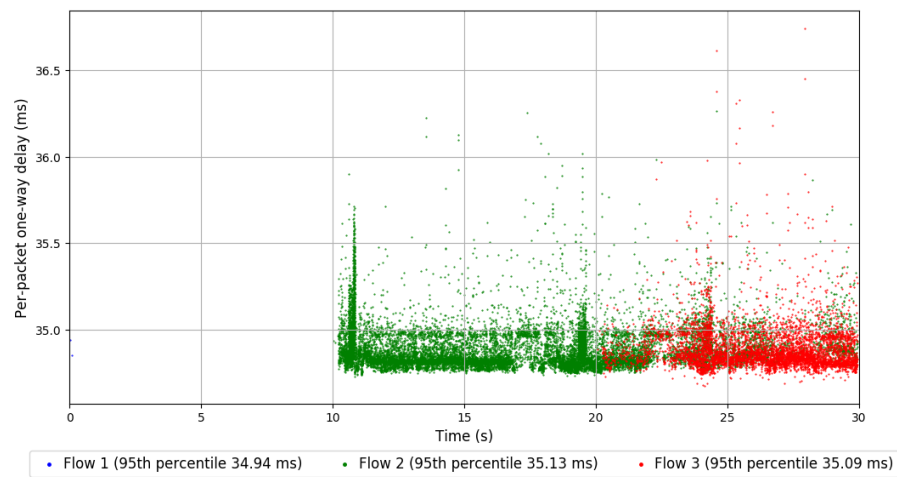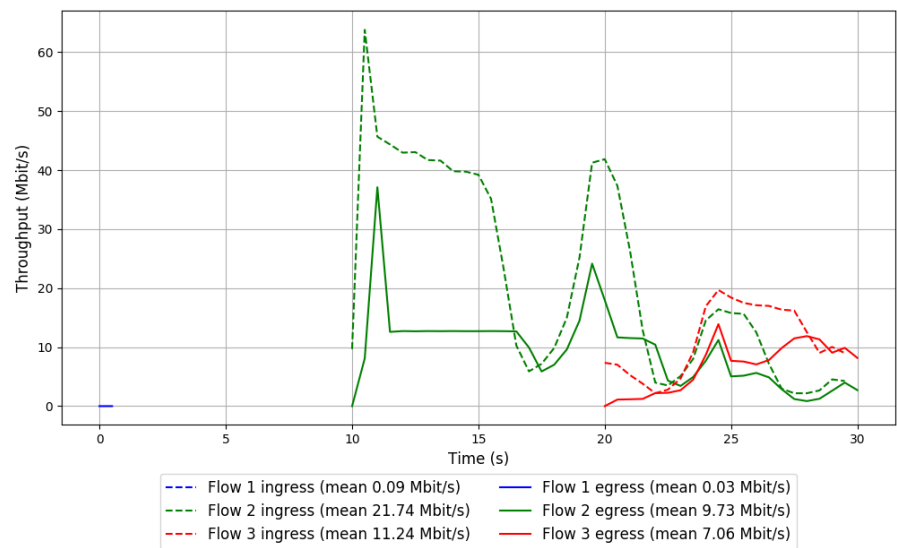
Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 41.05 Mbit/s) — Flow 1 egress (mean 16.52 Mbit/s)
Flow 2 ingress (mean 16.47 Mbit/s) — Flow 2 egress (mean 8.67 Mbit/s)
Flow 3 ingress (mean 16.38 Mbit/s) — Flow 3 egress (mean 9.18 Mbit/s)

Flow 1 (95th percentile 35.13 ms) · Flow 2 (95th percentile 35.11 ms) · Flow 3 (95th percentile 35.04 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2020-02-18 03:15:10
End at: 2020-02-18 03:15:40
Local clock offset: 3.646 ms
Remote clock offset: 6.331 ms


# Below is generated by plot.py at 2020-02-18 04:06:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 35.118 ms
Loss rate: 51.56%
-- Flow 1:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 34.941 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 35.131 ms
Loss rate: 55.26%
-- Flow 3:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 35.085 ms
Loss rate: 37.17%
```
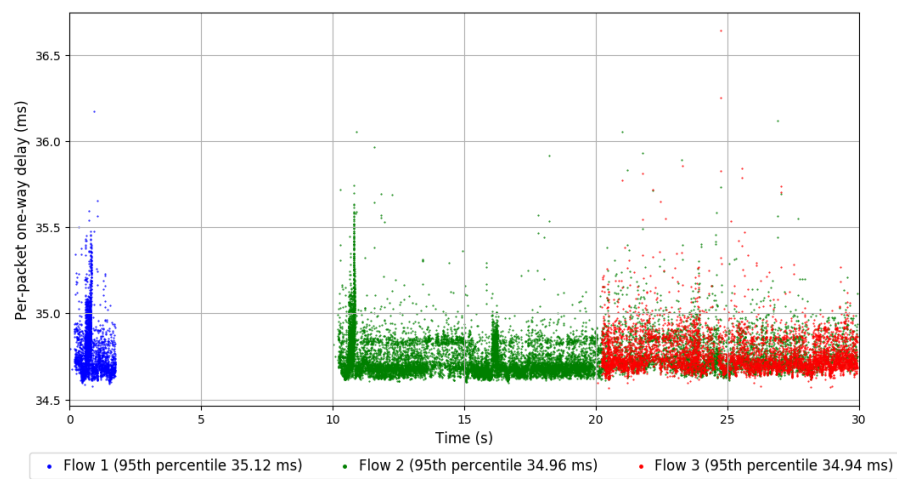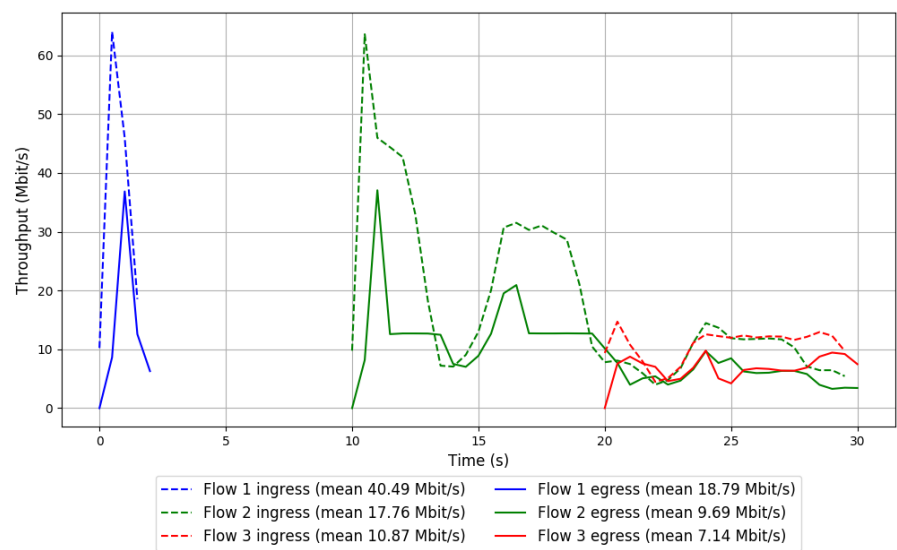
Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 0.09 Mbit/s) --- Flow 1 egress (mean 0.03 Mbit/s)
Flow 2 ingress (mean 21.74 Mbit/s) --- Flow 2 egress (mean 9.73 Mbit/s)
Flow 3 ingress (mean 11.24 Mbit/s) --- Flow 3 egress (mean 7.06 Mbit/s)

Flow 1 (95th percentile 34.94 ms)   Flow 2 (95th percentile 35.13 ms)   Flow 3 (95th percentile 35.09 ms)

```
Run 5: Statistics of PCC-Expr

Start at: 2020-02-18 03:45:20
End at: 2020-02-18 03:45:50
Local clock offset: 4.867 ms
Remote clock offset: 6.354 ms


# Below is generated by plot.py at 2020-02-18 04:06:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 34.982 ms
Loss rate: 44.26%
-- Flow 1:
Average throughput: 18.79 Mbit/s
95th percentile per-packet one-way delay: 35.122 ms
Loss rate: 53.60%
-- Flow 2:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 34.960 ms
Loss rate: 45.42%
-- Flow 3:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 34.944 ms
Loss rate: 34.37%
```
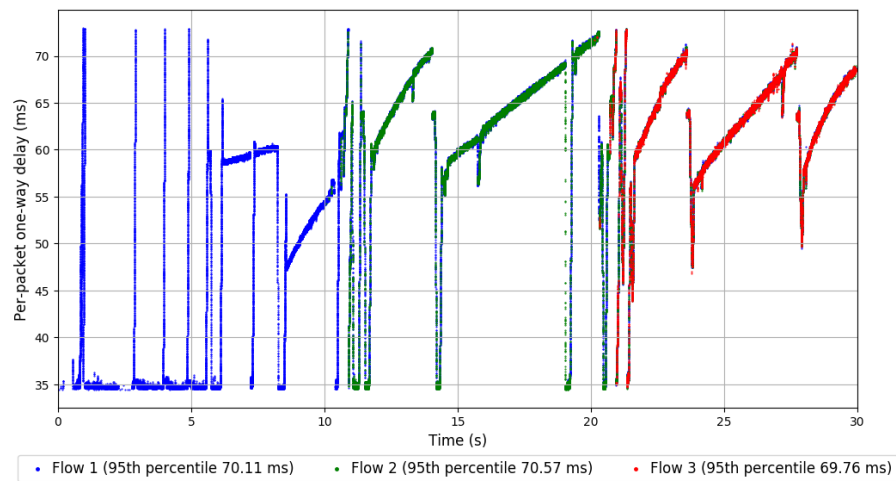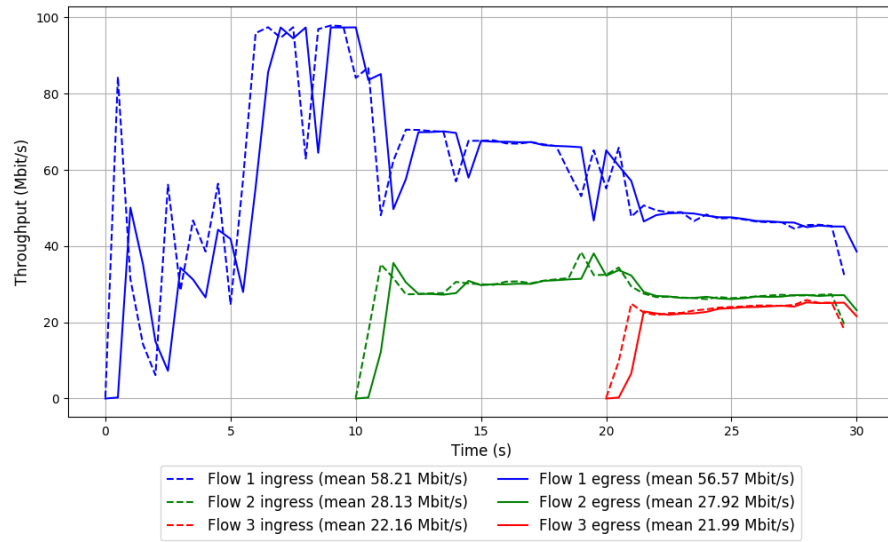
Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2020-02-18 01:31:27
End at: 2020-02-18 01:31:57
Local clock offset: 4.307 ms
Remote clock offset: 5.532 ms


# Below is generated by plot.py at 2020-02-18 04:06:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.33 Mbit/s
95th percentile per-packet one-way delay: 70.150 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 56.57 Mbit/s
95th percentile per-packet one-way delay: 70.108 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 27.92 Mbit/s
95th percentile per-packet one-way delay: 70.567 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 21.99 Mbit/s
95th percentile per-packet one-way delay: 69.759 ms
Loss rate: 0.81%
```
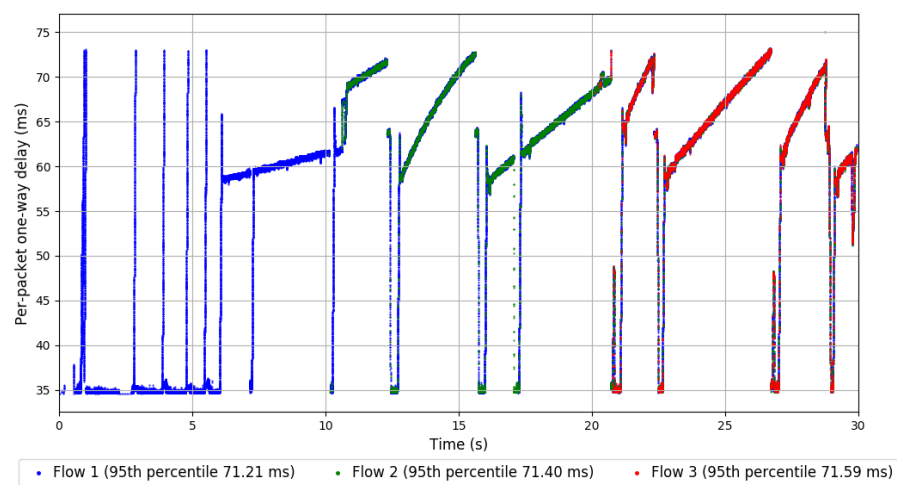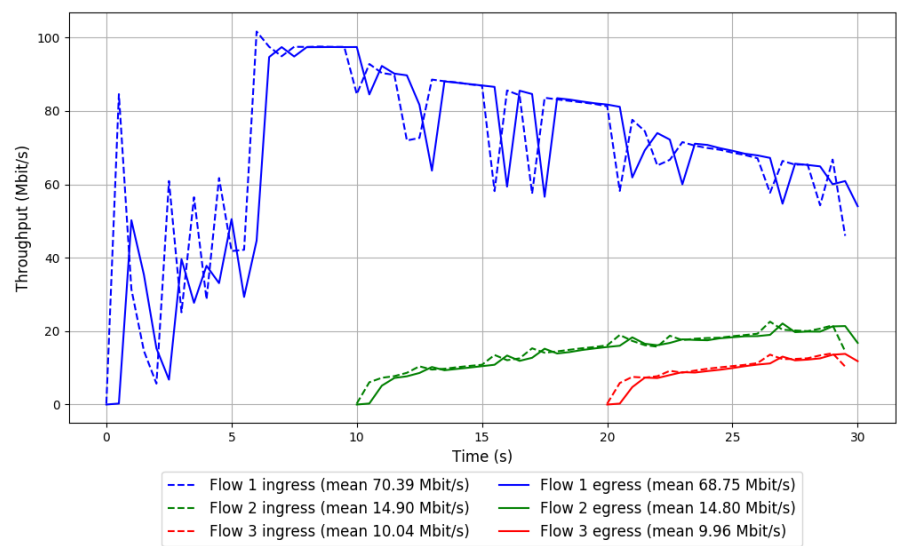
Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 58.21 Mbit/s) —— Flow 1 egress (mean 56.57 Mbit/s)
Flow 2 ingress (mean 28.13 Mbit/s) —— Flow 2 egress (mean 27.92 Mbit/s)
Flow 3 ingress (mean 22.16 Mbit/s) —— Flow 3 egress (mean 21.99 Mbit/s)

Flow 1 (95th percentile 70.11 ms)   Flow 2 (95th percentile 70.57 ms)   Flow 3 (95th percentile 69.76 ms)

```
Run 2: Statistics of QUIC Cubic

Start at: 2020-02-18 02:03:38
End at: 2020-02-18 02:04:08
Local clock offset: 3.937 ms
Remote clock offset: 5.962 ms


# Below is generated by plot.py at 2020-02-18 04:06:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.84 Mbit/s
95th percentile per-packet one-way delay: 71.247 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 68.75 Mbit/s
95th percentile per-packet one-way delay: 71.212 ms
Loss rate: 2.25%
-- Flow 2:
Average throughput: 14.80 Mbit/s
95th percentile per-packet one-way delay: 71.403 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 9.96 Mbit/s
95th percentile per-packet one-way delay: 71.587 ms
Loss rate: 0.86%
```
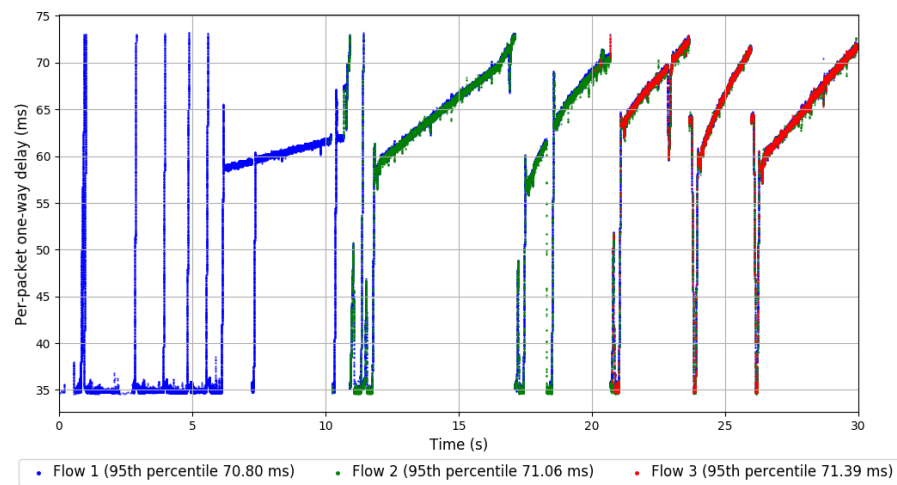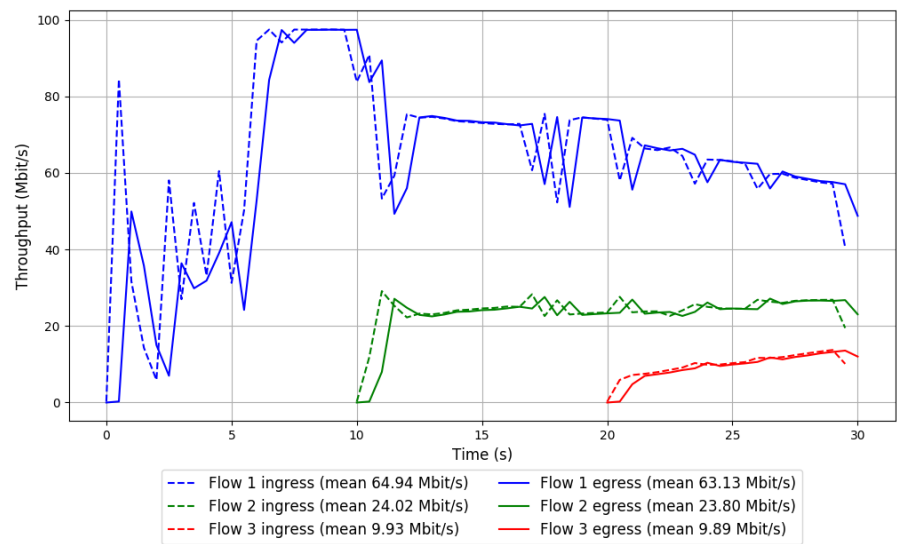
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2020-02-18 02:34:32
End at: 2020-02-18 02:35:02
Local clock offset: 4.915 ms
Remote clock offset: 6.005 ms


# Below is generated by plot.py at 2020-02-18 04:06:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.18 Mbit/s
95th percentile per-packet one-way delay: 70.878 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 63.13 Mbit/s
95th percentile per-packet one-way delay: 70.795 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 23.80 Mbit/s
95th percentile per-packet one-way delay: 71.060 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 71.386 ms
Loss rate: 0.42%
```
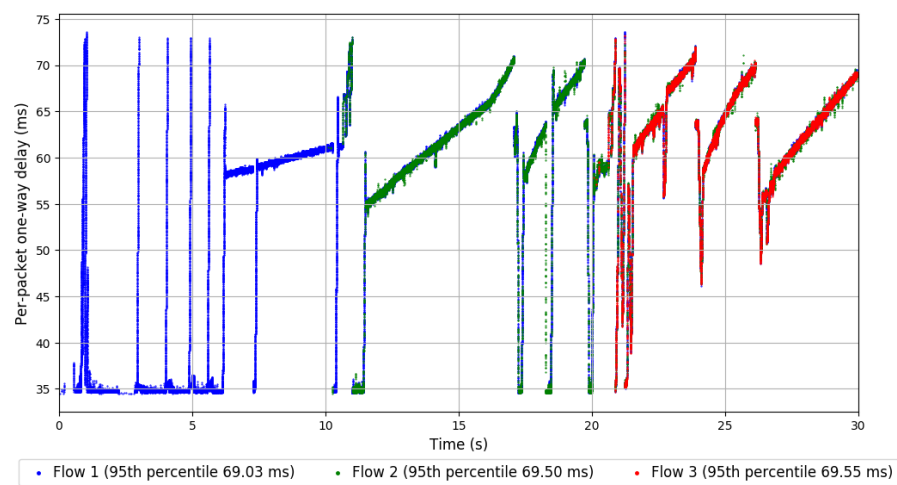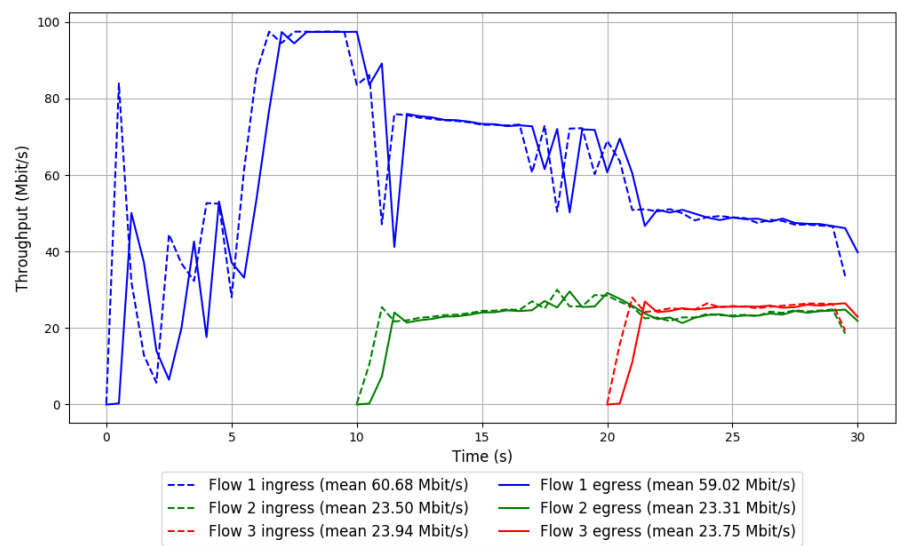
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2020-02-18 03:06:11
End at: 2020-02-18 03:06:41
Local clock offset: 4.116 ms
Remote clock offset: 6.138 ms


# Below is generated by plot.py at 2020-02-18 04:06:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.32 Mbit/s
95th percentile per-packet one-way delay: 69.213 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 59.02 Mbit/s
95th percentile per-packet one-way delay: 69.034 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 23.31 Mbit/s
95th percentile per-packet one-way delay: 69.499 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 69.551 ms
Loss rate: 0.71%
```
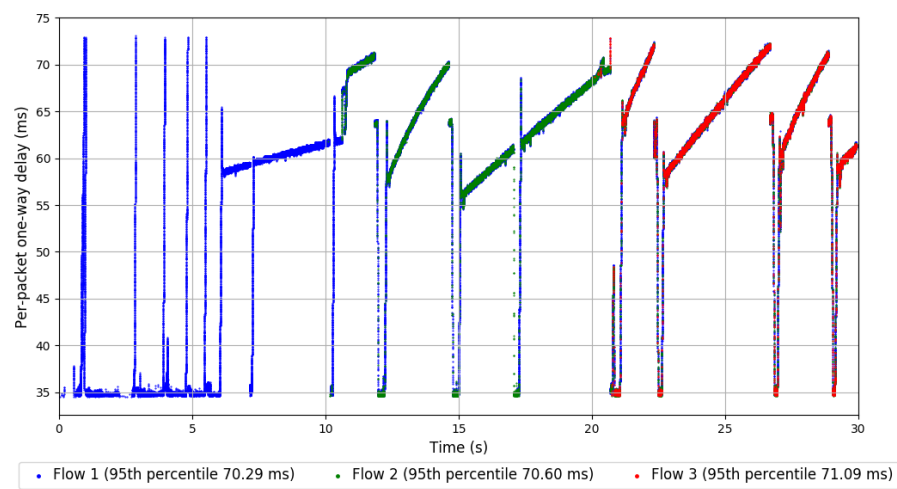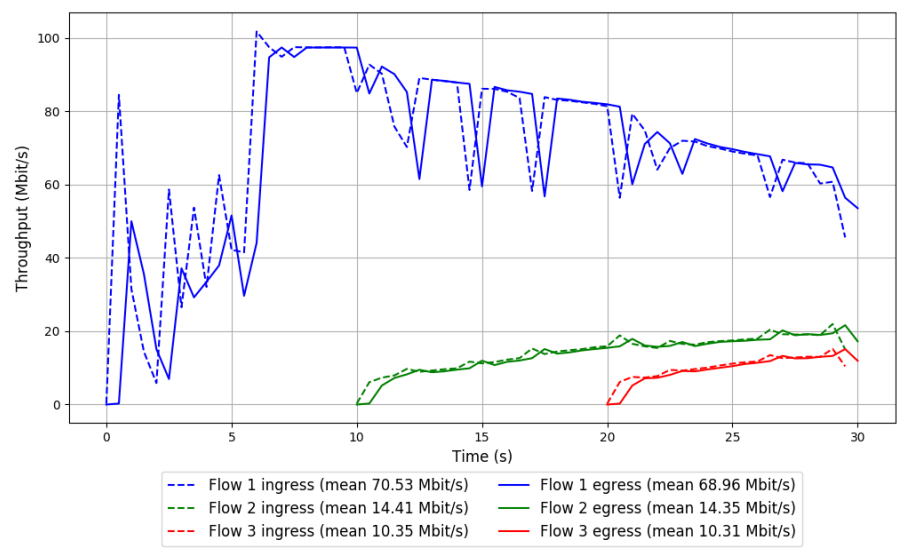
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 60.68 Mbit/s) --- Flow 1 egress (mean 59.02 Mbit/s)
Flow 2 ingress (mean 23.50 Mbit/s) --- Flow 2 egress (mean 23.31 Mbit/s)
Flow 3 ingress (mean 23.94 Mbit/s) --- Flow 3 egress (mean 23.75 Mbit/s)

Flow 1 (95th percentile 69.03 ms) Flow 2 (95th percentile 69.50 ms) Flow 3 (95th percentile 69.55 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2020-02-18 03:36:32
End at: 2020-02-18 03:37:02
Local clock offset: 4.404 ms
Remote clock offset: 6.262 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.87 Mbit/s
95th percentile per-packet one-way delay: 70.407 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 68.96 Mbit/s
95th percentile per-packet one-way delay: 70.288 ms
Loss rate: 2.14%
-- Flow 2:
Average throughput: 14.35 Mbit/s
95th percentile per-packet one-way delay: 70.604 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 71.089 ms
Loss rate: 0.40%
```
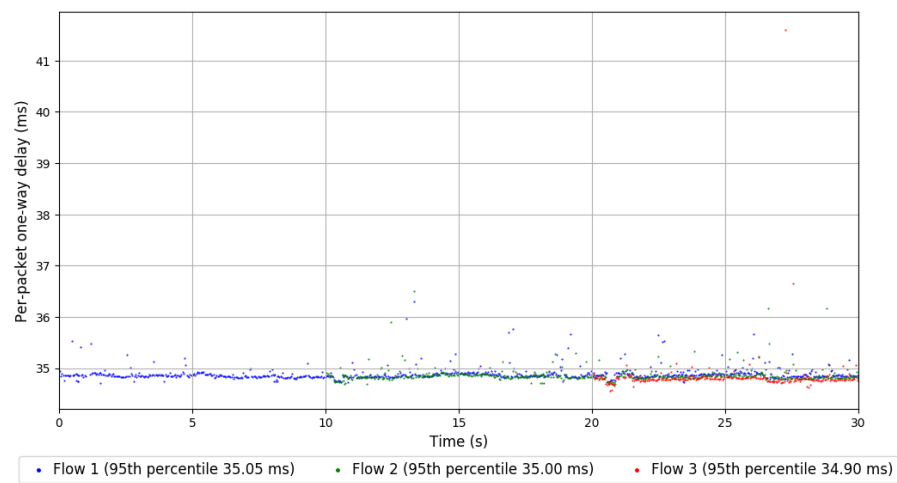
Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2020-02-18 01:19:51
End at: 2020-02-18 01:20:21
Local clock offset: 4.741 ms
Remote clock offset: 5.444 ms

# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 35.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.052 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.004 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.903 ms
Loss rate: 0.00%
```
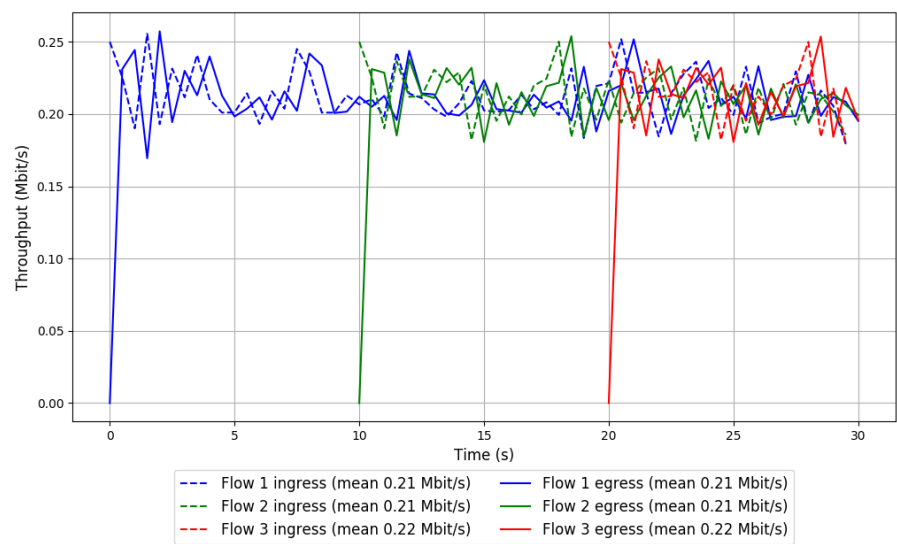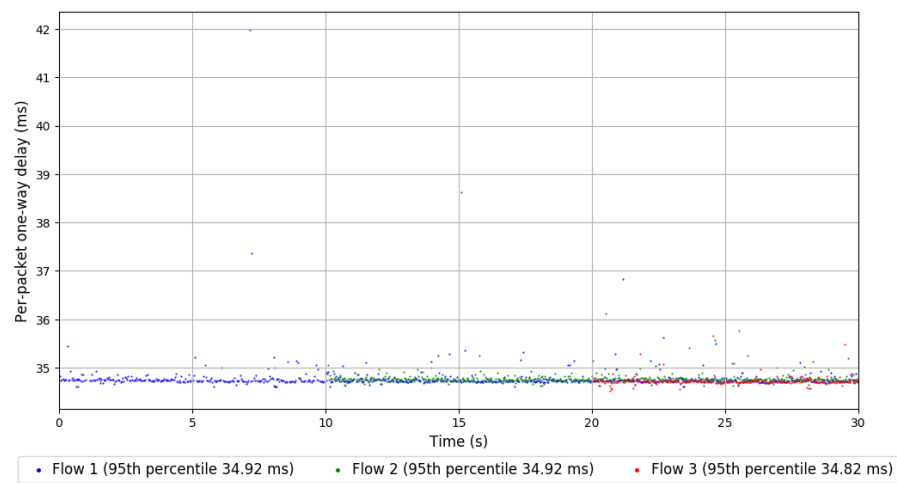
Run 1: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.21 Mbit/s)   Flow 1 egress (mean 0.21 Mbit/s)
Flow 2 ingress (mean 0.21 Mbit/s)   Flow 2 egress (mean 0.21 Mbit/s)
Flow 3 ingress (mean 0.22 Mbit/s)   Flow 3 egress (mean 0.22 Mbit/s)

Flow 1 (95th percentile 35.05 ms)   Flow 2 (95th percentile 35.00 ms)   Flow 3 (95th percentile 34.90 ms)

```
Run 2: Statistics of SCReAM

Start at: 2020-02-18 01:51:04
End at: 2020-02-18 01:51:34
Local clock offset: 3.269 ms
Remote clock offset: 5.843 ms

# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 34.901 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.925 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.918 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.824 ms
Loss rate: 0.00%
```
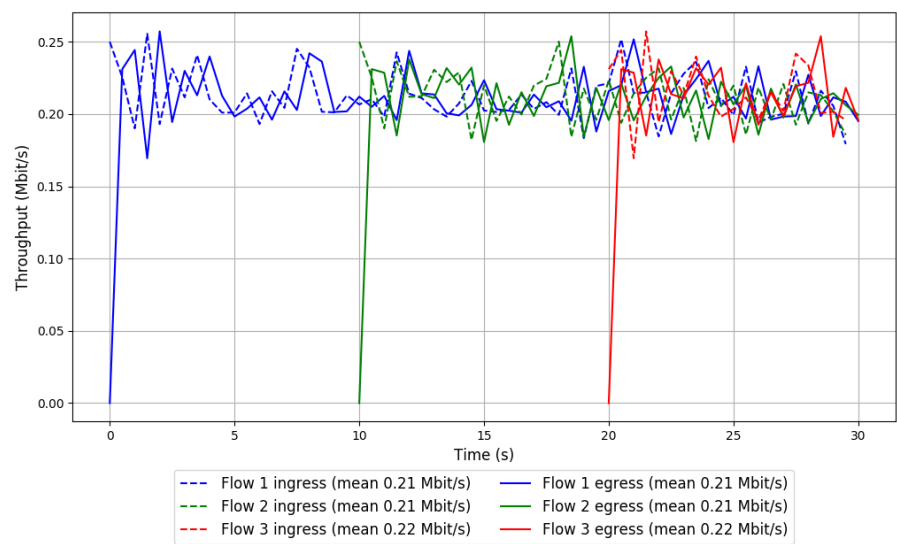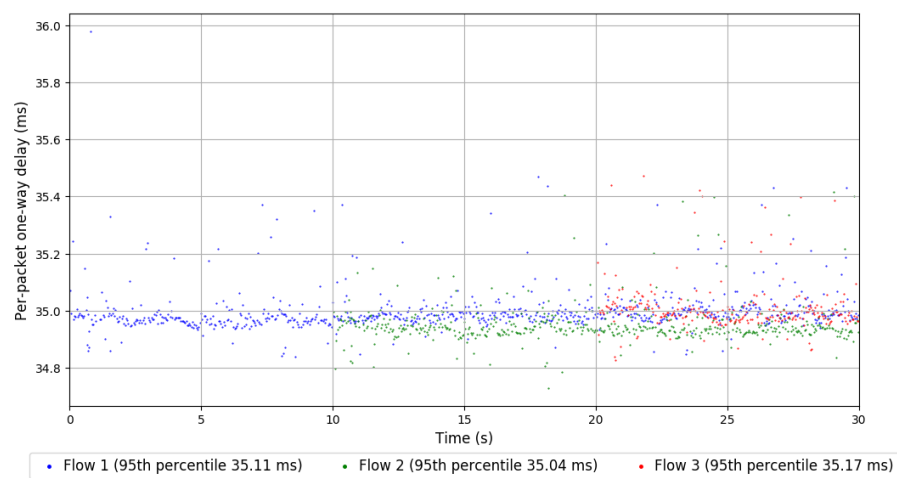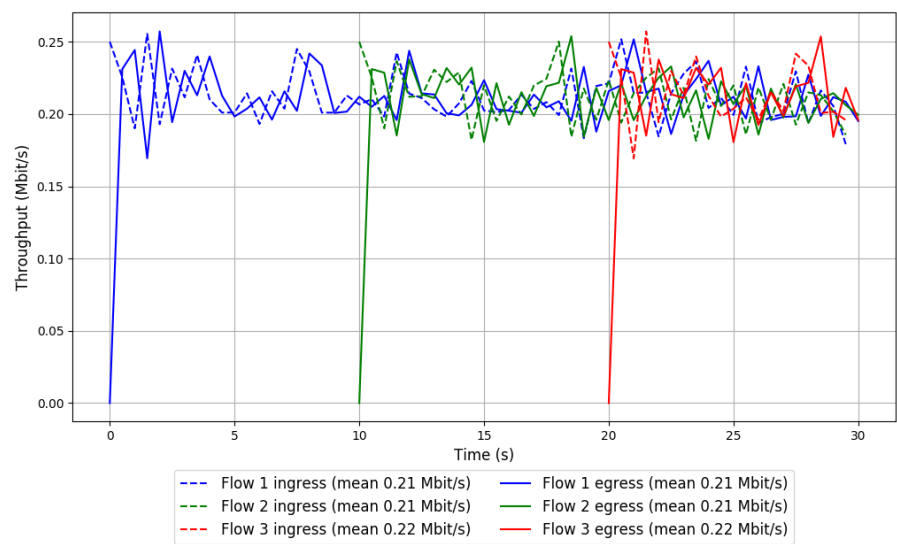
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2020-02-18 02:23:01
End at: 2020-02-18 02:23:31
Local clock offset: 4.859 ms
Remote clock offset: 6.233 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 35.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.114 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.038 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 35.170 ms
Loss rate: 0.00%
```
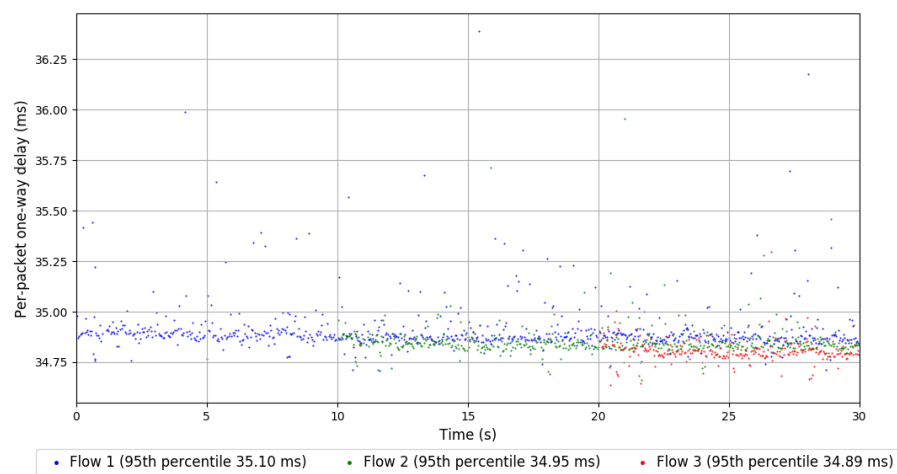
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2020-02-18 02:54:24
End at: 2020-02-18 02:54:54
Local clock offset: 5.035 ms
Remote clock offset: 6.1 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 34.999 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.102 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.945 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.893 ms
Loss rate: 0.00%
```
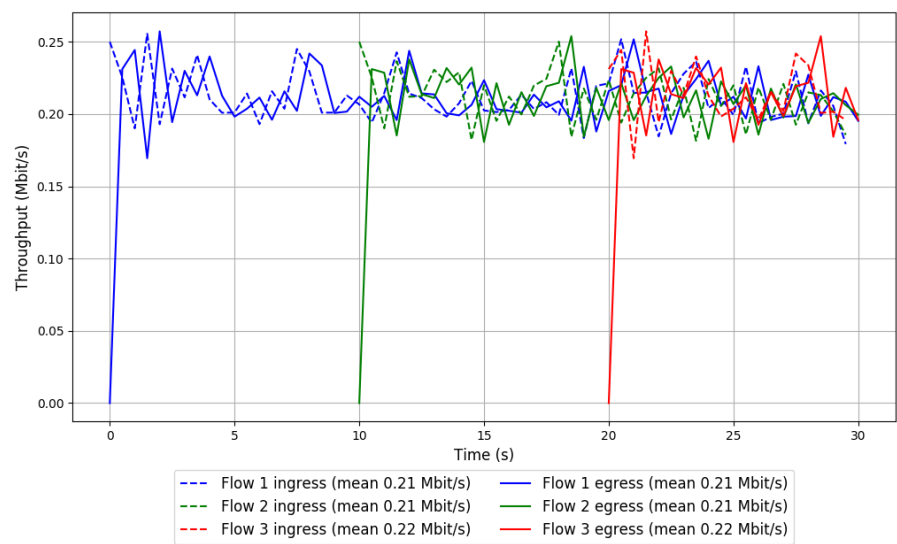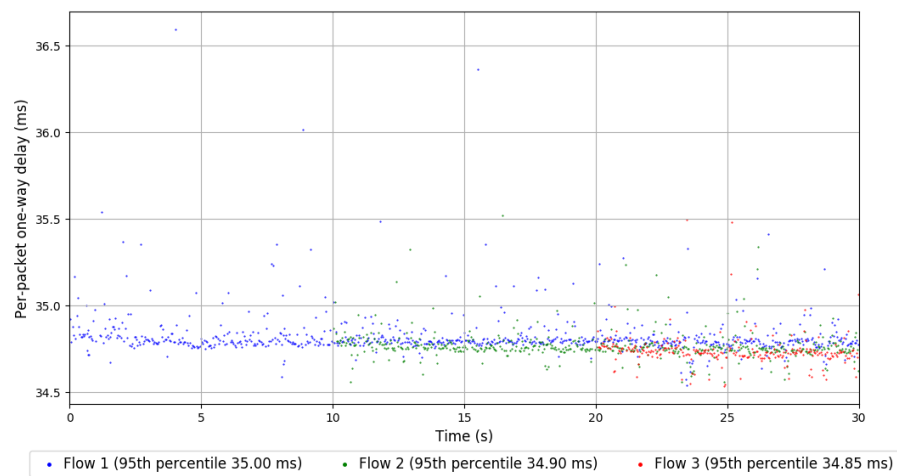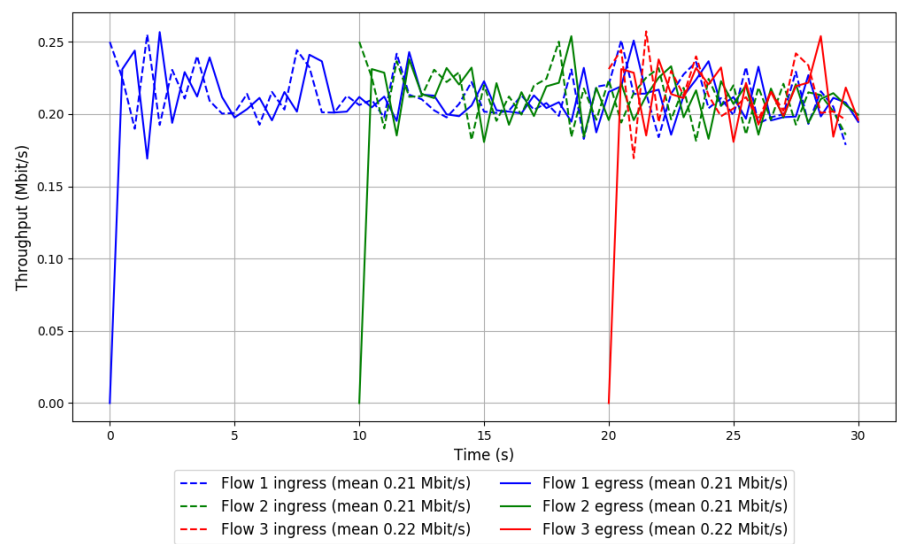
Run 4: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.21 Mbit/s)   Flow 1 egress (mean 0.21 Mbit/s)
Flow 2 ingress (mean 0.21 Mbit/s)   Flow 2 egress (mean 0.21 Mbit/s)
Flow 3 ingress (mean 0.22 Mbit/s)   Flow 3 egress (mean 0.22 Mbit/s)

Flow 1 (95th percentile 35.10 ms)   Flow 2 (95th percentile 34.95 ms)   Flow 3 (95th percentile 34.89 ms)

```
Run 5: Statistics of SCReAM

Start at: 2020-02-18 03:25:20
End at: 2020-02-18 03:25:50
Local clock offset: 3.422 ms
Remote clock offset: 6.3 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 34.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 35.002 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 34.895 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 34.850 ms
Loss rate: 0.00%
```
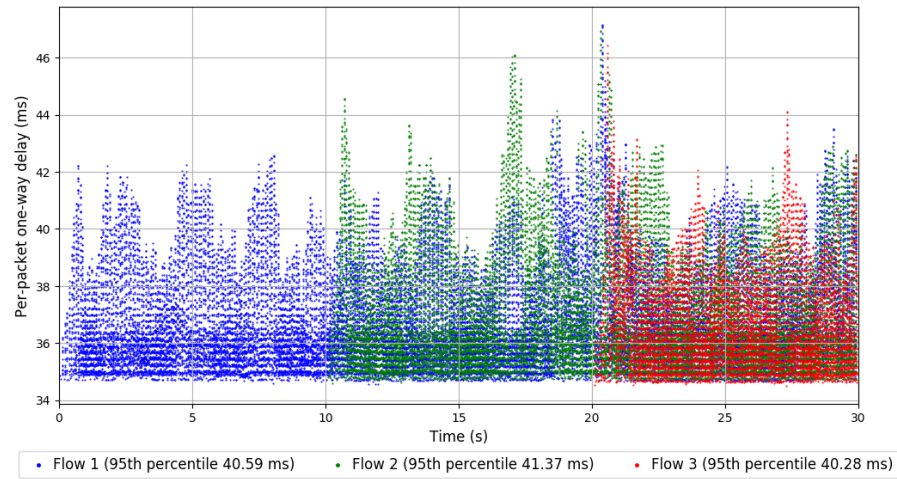
Run 5: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2020-02-18 01:38:08
End at: 2020-02-18 01:38:38
Local clock offset: 3.738 ms
Remote clock offset: 5.796 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 40.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 40.595 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 41.373 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 40.281 ms
Loss rate: 0.00%
```
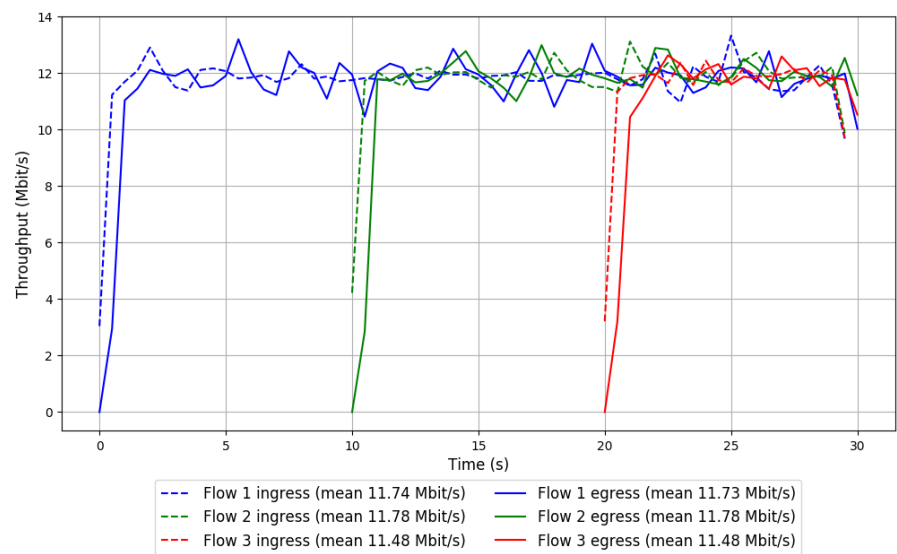
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2020-02-18 02:10:16
End at: 2020-02-18 02:10:46
Local clock offset: 4.497 ms
Remote clock offset: 6.059 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.33 Mbit/s
95th percentile per-packet one-way delay: 40.960 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 40.797 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.72 Mbit/s
95th percentile per-packet one-way delay: 40.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.51 Mbit/s
95th percentile per-packet one-way delay: 41.213 ms
Loss rate: 0.00%
```
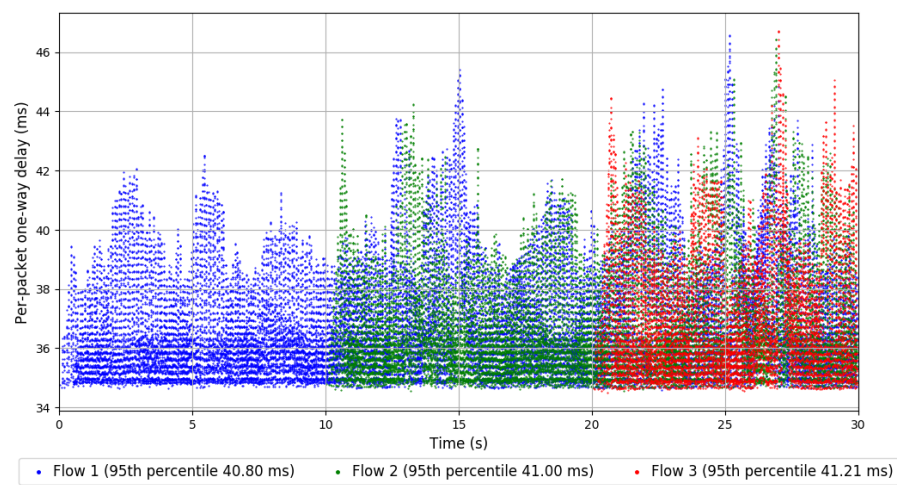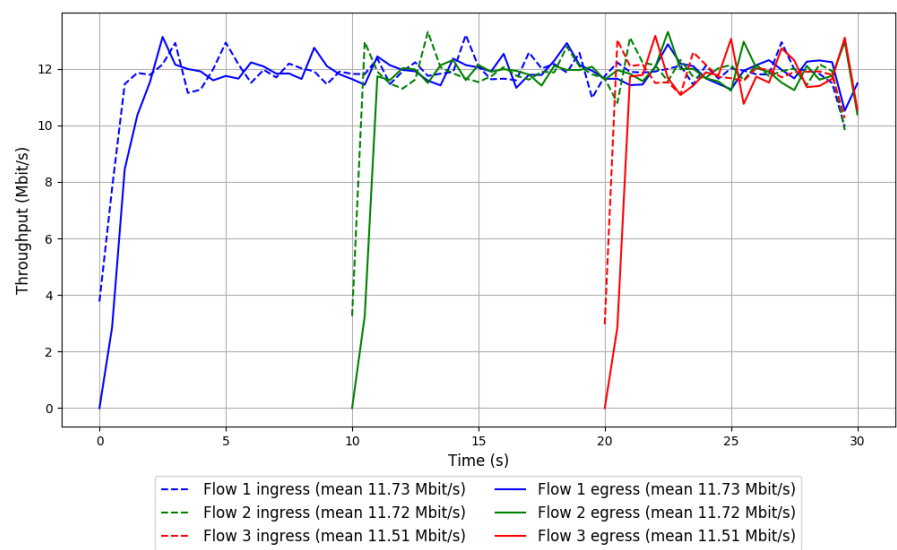
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2020-02-18 02:40:57
End at: 2020-02-18 02:41:27
Local clock offset: 4.988 ms
Remote clock offset: 6.025 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.29 Mbit/s
95th percentile per-packet one-way delay: 41.482 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 40.479 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 42.306 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 42.147 ms
Loss rate: 0.00%
```
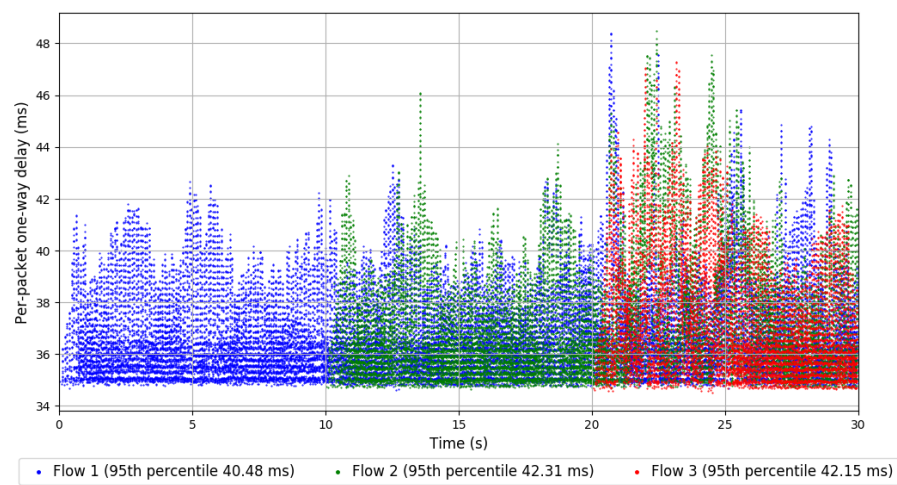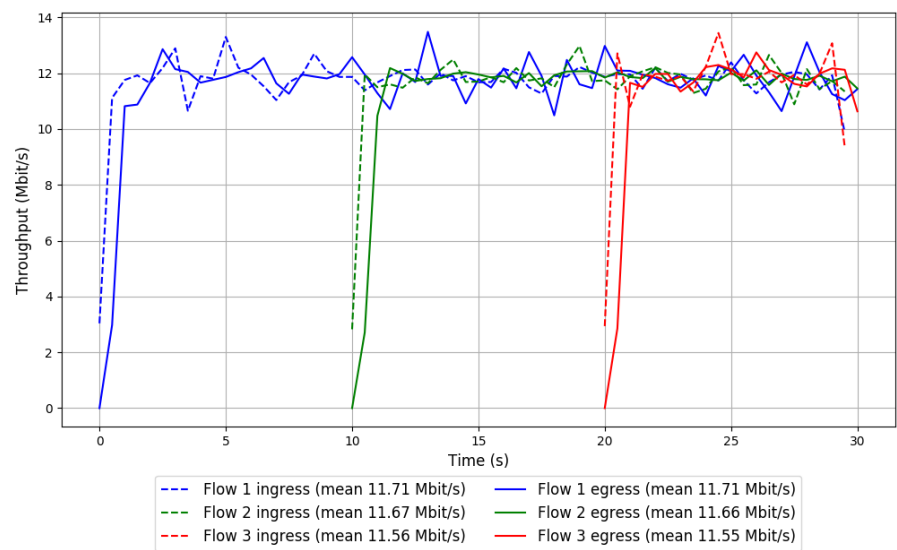
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2020-02-18 03:12:48
End at: 2020-02-18 03:13:18
Local clock offset: 3.742 ms
Remote clock offset: 6.314 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.33 Mbit/s
95th percentile per-packet one-way delay: 41.281 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 40.841 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 41.461 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 42.041 ms
Loss rate: 0.00%
```
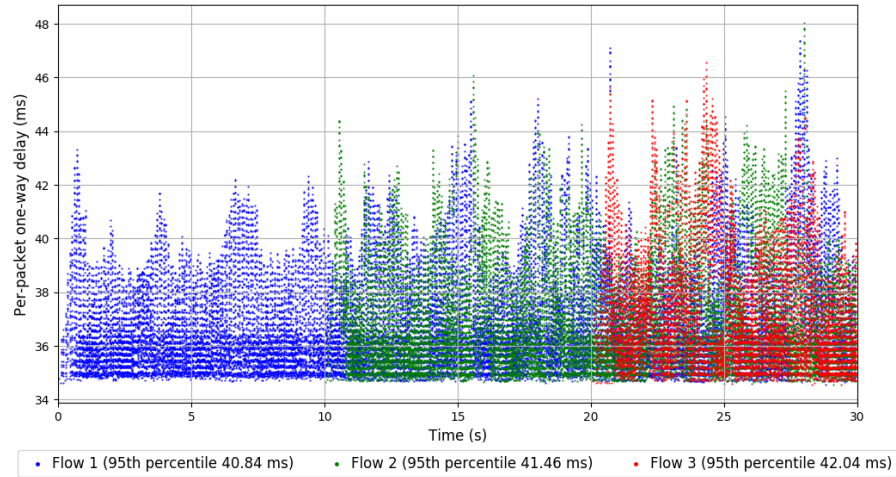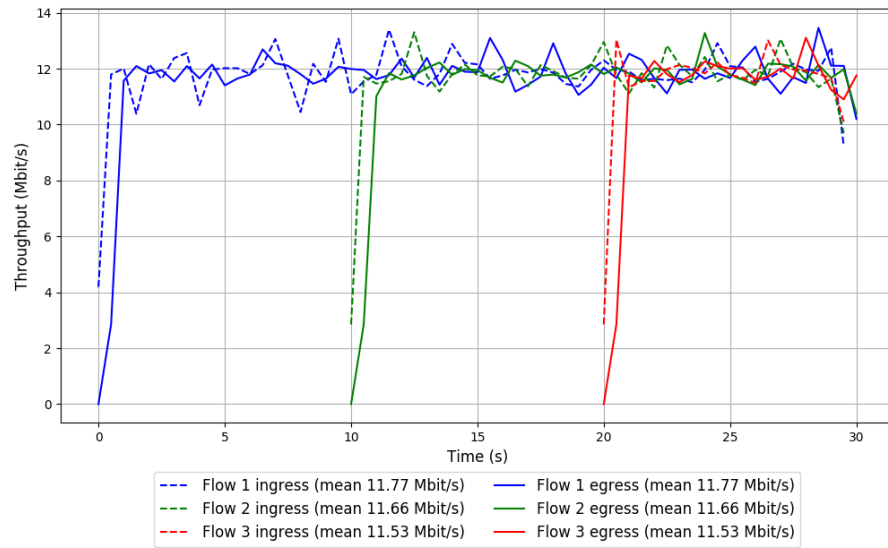
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2020-02-18 03:43:00
End at: 2020-02-18 03:43:30
Local clock offset: 4.749 ms
Remote clock offset: 6.348 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 41.475 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 40.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 41.857 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 42.146 ms
Loss rate: 0.08%
```
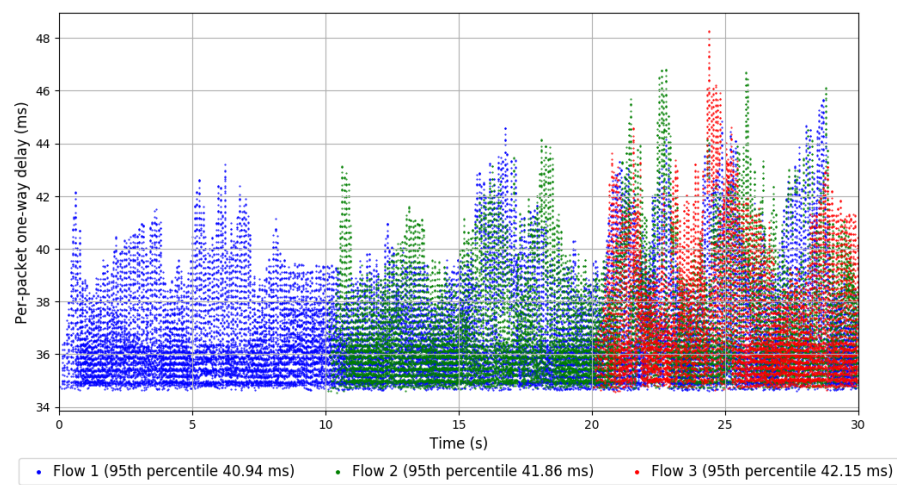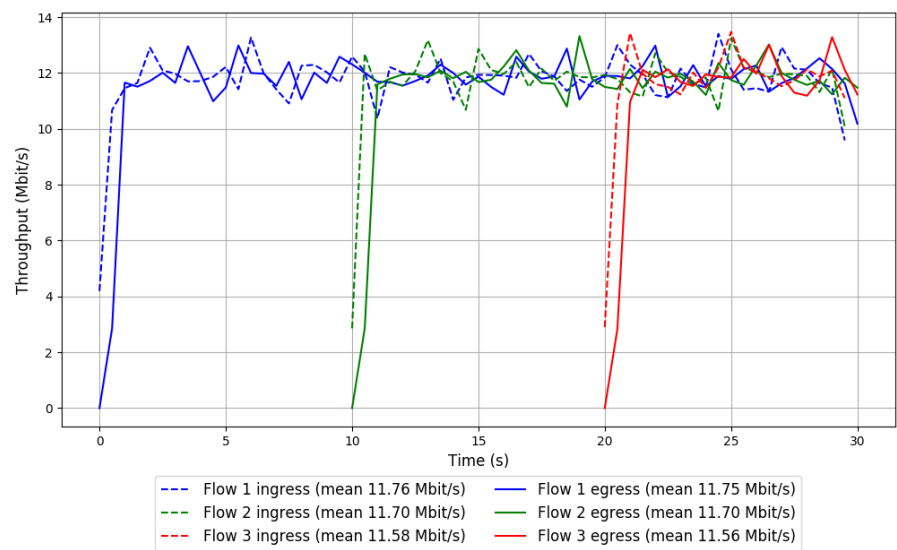
Run 5: Report of Sprout — Data Link

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

Start at: 2020-02-18 01:30:17
End at: 2020-02-18 01:30:47
Local clock offset: 4.425 ms
Remote clock offset: 5.551 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 36.726 ms
Loss rate: 86.06%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 34.780 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 10.35 Mbit/s
95th percentile per-packet one-way delay: 37.216 ms
Loss rate: 83.86%
-- Flow 3:
Average throughput: 12.89 Mbit/s
95th percentile per-packet one-way delay: 36.117 ms
Loss rate: 87.72%
```
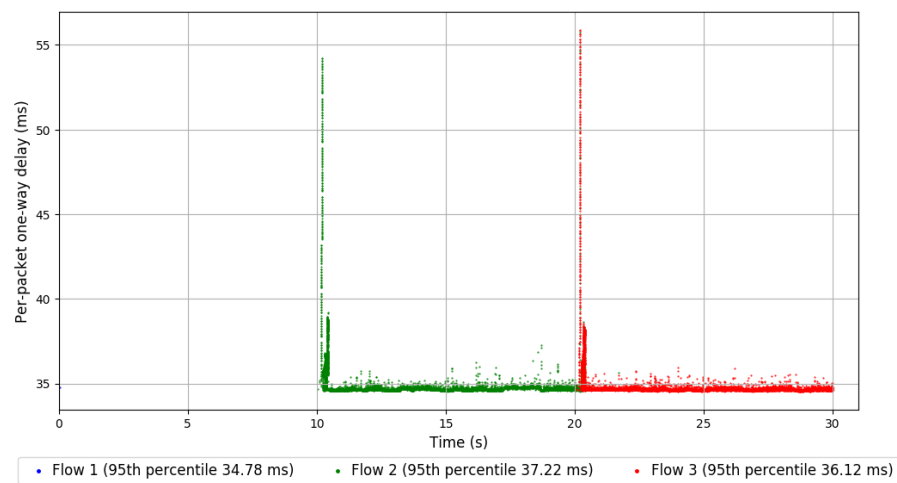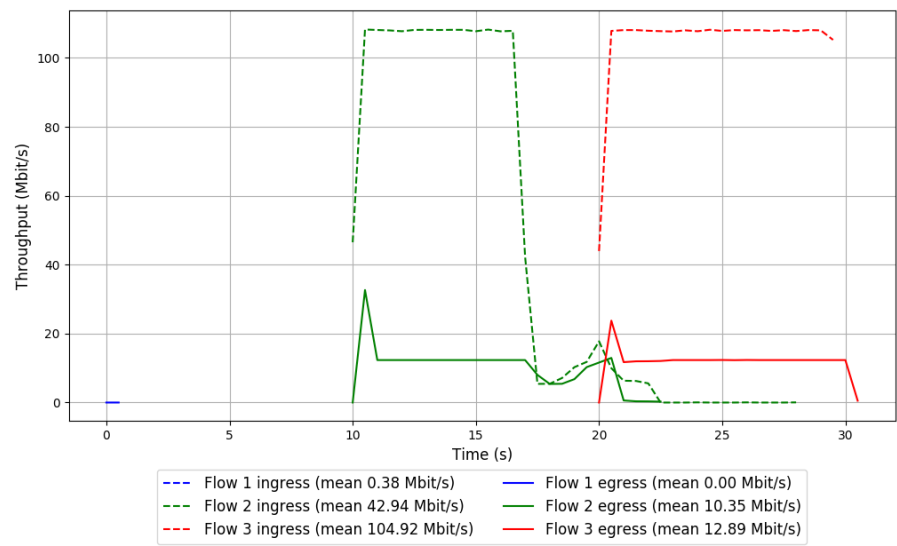
Run 1: Report of TaoVA-100x — Data Link

- - - Flow 1 ingress (mean 0.38 Mbit/s) —— Flow 1 egress (mean 0.00 Mbit/s)
- - - Flow 2 ingress (mean 42.94 Mbit/s) —— Flow 2 egress (mean 10.35 Mbit/s)
- - - Flow 3 ingress (mean 104.92 Mbit/s) —— Flow 3 egress (mean 12.89 Mbit/s)

· Flow 1 (95th percentile 34.78 ms)   · Flow 2 (95th percentile 37.22 ms)   · Flow 3 (95th percentile 36.12 ms)

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

Start at: 2020-02-18 02:02:27
End at: 2020-02-18 02:02:57
Local clock offset: 3.831 ms
Remote clock offset: 5.961 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 35.278 ms
Loss rate: 83.68%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 34.774 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 35.329 ms
Loss rate: 85.79%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 35.184 ms
Loss rate: 17.96%
```
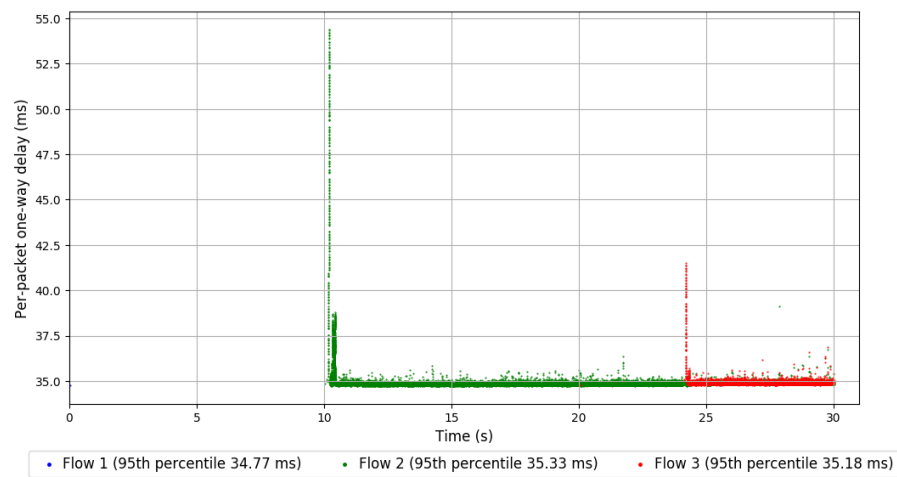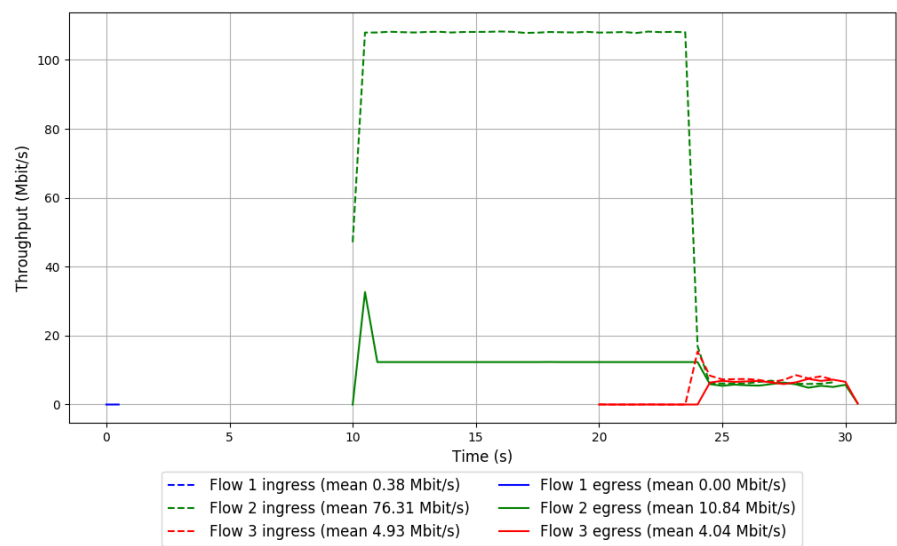
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 0.38 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 76.31 Mbit/s) --- Flow 2 egress (mean 10.84 Mbit/s)
Flow 3 ingress (mean 4.93 Mbit/s) --- Flow 3 egress (mean 4.04 Mbit/s)

Flow 1 (95th percentile 34.77 ms) • Flow 2 (95th percentile 35.33 ms) • Flow 3 (95th percentile 35.18 ms)

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

Start at: 2020-02-18 02:33:21
End at: 2020-02-18 02:33:51
Local clock offset: 4.911 ms
Remote clock offset: 5.981 ms

# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 35.274 ms
Loss rate: 91.24%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 34.845 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 36.356 ms
Loss rate: 80.33%
-- Flow 3:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 34.953 ms
Loss rate: 95.80%
```
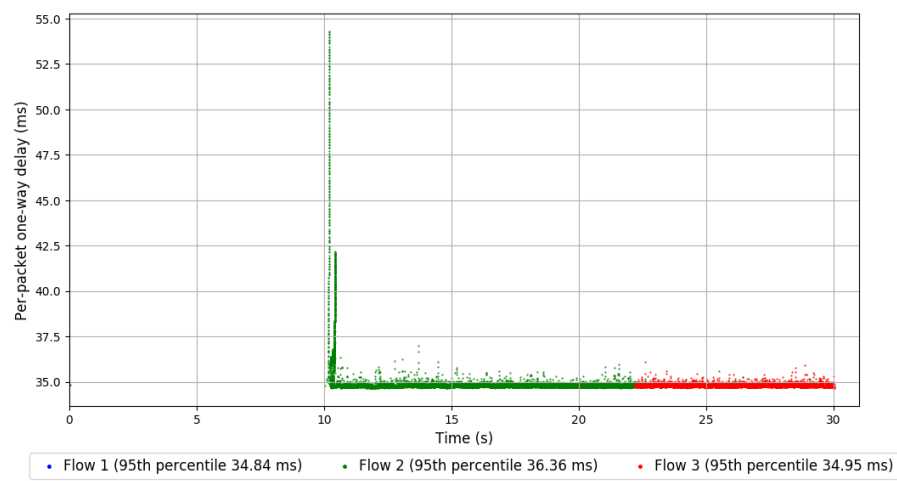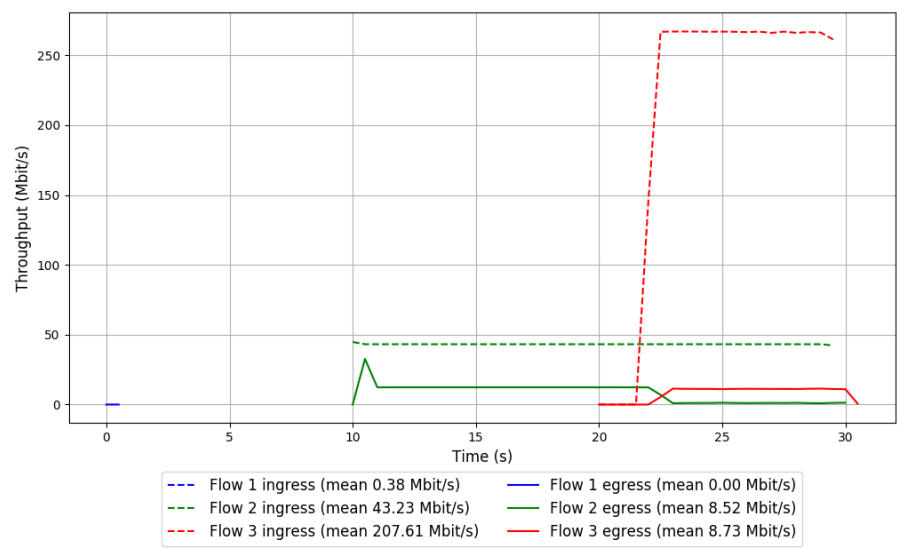
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 0.38 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 43.23 Mbit/s) --- Flow 2 egress (mean 8.52 Mbit/s)
Flow 3 ingress (mean 207.61 Mbit/s) --- Flow 3 egress (mean 8.73 Mbit/s)

Flow 1 (95th percentile 34.84 ms) • Flow 2 (95th percentile 36.36 ms) • Flow 3 (95th percentile 34.95 ms)

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

Start at: 2020-02-18 03:05:00
End at: 2020-02-18 03:05:30
Local clock offset: 4.166 ms
Remote clock offset: 6.08 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 35.777 ms
Loss rate: 79.66%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 34.802 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 36.551 ms
Loss rate: 83.23%
-- Flow 3:
Average throughput: 11.67 Mbit/s
95th percentile per-packet one-way delay: 35.090 ms
Loss rate: 72.64%
```
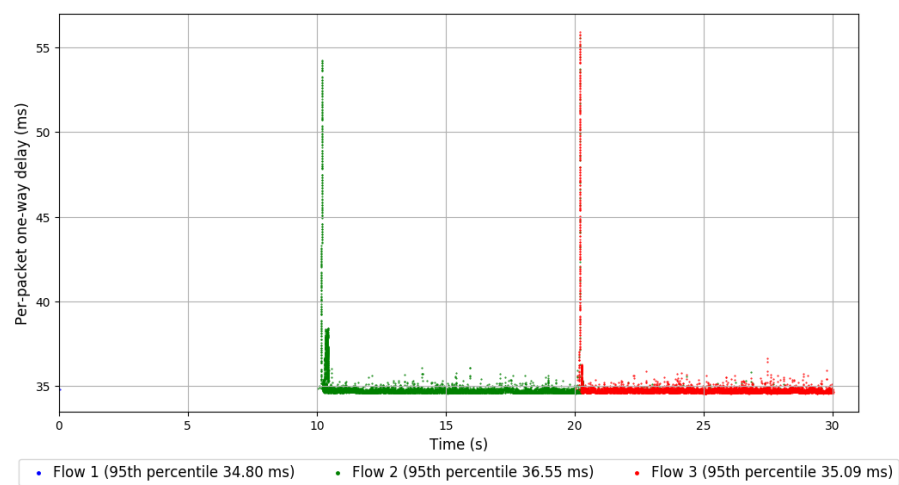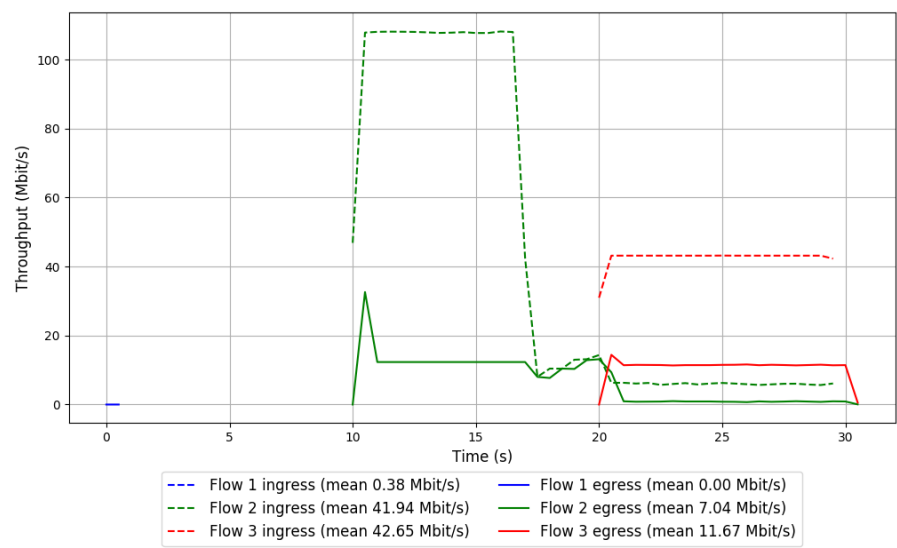
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 0.38 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 41.94 Mbit/s)   Flow 2 egress (mean 7.04 Mbit/s)
Flow 3 ingress (mean 42.65 Mbit/s)   Flow 3 egress (mean 11.67 Mbit/s)

Flow 1 (95th percentile 34.80 ms)   Flow 2 (95th percentile 36.55 ms)   Flow 3 (95th percentile 35.09 ms)

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

Start at: 2020-02-18 03:35:22
End at: 2020-02-18 03:35:52
Local clock offset: 4.31 ms
Remote clock offset: 6.357 ms


# Below is generated by plot.py at 2020-02-18 04:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 35.966 ms
Loss rate: 79.70%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 34.865 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 36.742 ms
Loss rate: 83.20%
-- Flow 3:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 35.126 ms
Loss rate: 72.77%
```
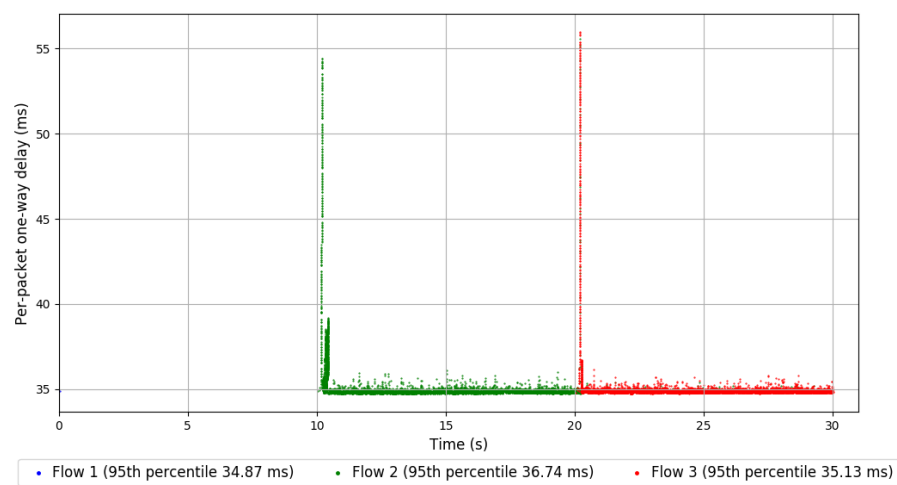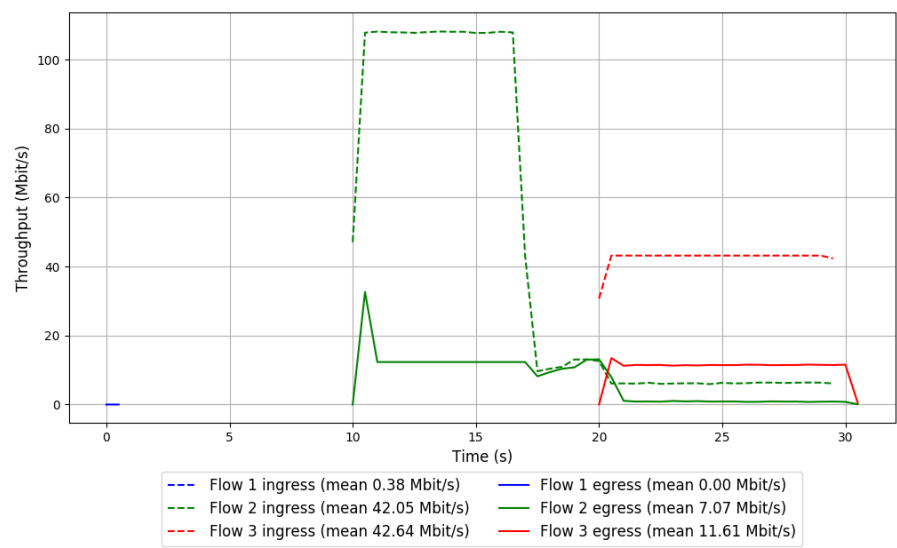
Run 5: Report of TaoVA-100x — Data Link

- - - Flow 1 ingress (mean 0.38 Mbit/s) — Flow 1 egress (mean 0.00 Mbit/s)
- - - Flow 2 ingress (mean 42.05 Mbit/s) — Flow 2 egress (mean 7.07 Mbit/s)
- - - Flow 3 ingress (mean 42.64 Mbit/s) — Flow 3 egress (mean 11.61 Mbit/s)

- Flow 1 (95th percentile 34.87 ms)   - Flow 2 (95th percentile 36.74 ms)   - Flow 3 (95th percentile 35.13 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2020-02-18 01:26:14
End at: 2020-02-18 01:26:44
Local clock offset: 4.779 ms
Remote clock offset: 5.433 ms


# Below is generated by plot.py at 2020-02-18 04:07:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 50.055 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 50.079 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 21.14 Mbit/s
95th percentile per-packet one-way delay: 51.060 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.25 Mbit/s
95th percentile per-packet one-way delay: 43.940 ms
Loss rate: 0.01%
```
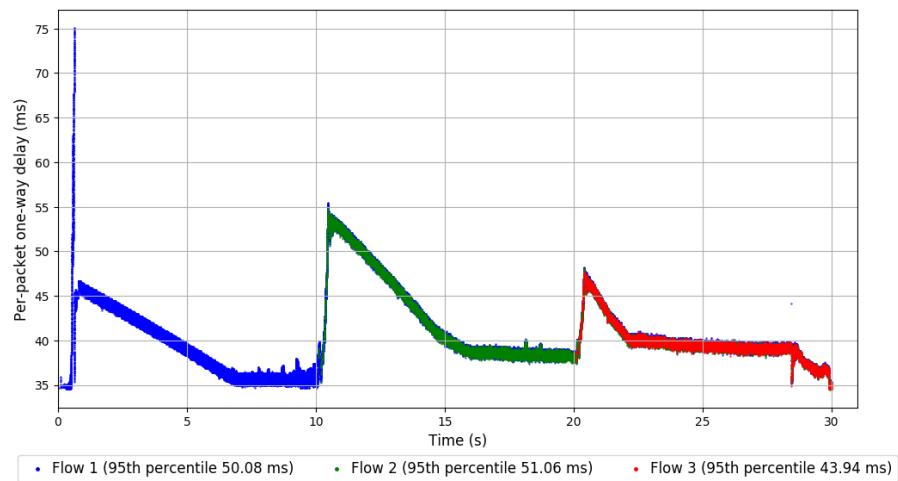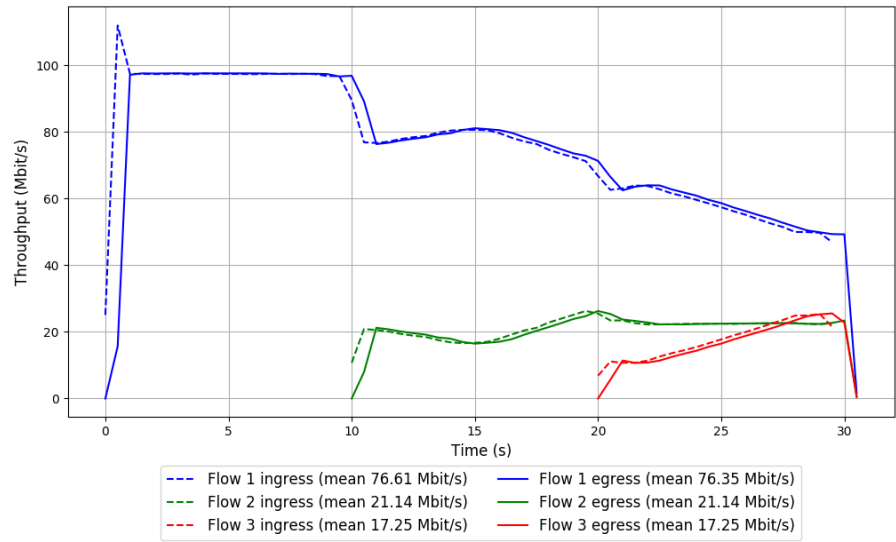
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2020-02-18 01:58:16
End at: 2020-02-18 01:58:46
Local clock offset: 3.17 ms
Remote clock offset: 5.943 ms


# Below is generated by plot.py at 2020-02-18 04:07:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 44.902 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 77.54 Mbit/s
95th percentile per-packet one-way delay: 44.975 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 19.21 Mbit/s
95th percentile per-packet one-way delay: 44.033 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.76 Mbit/s
95th percentile per-packet one-way delay: 43.313 ms
Loss rate: 0.00%
```
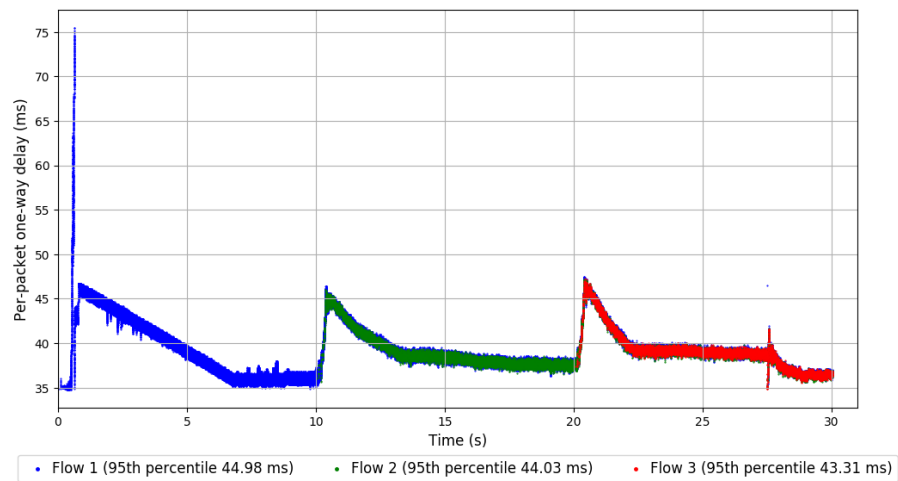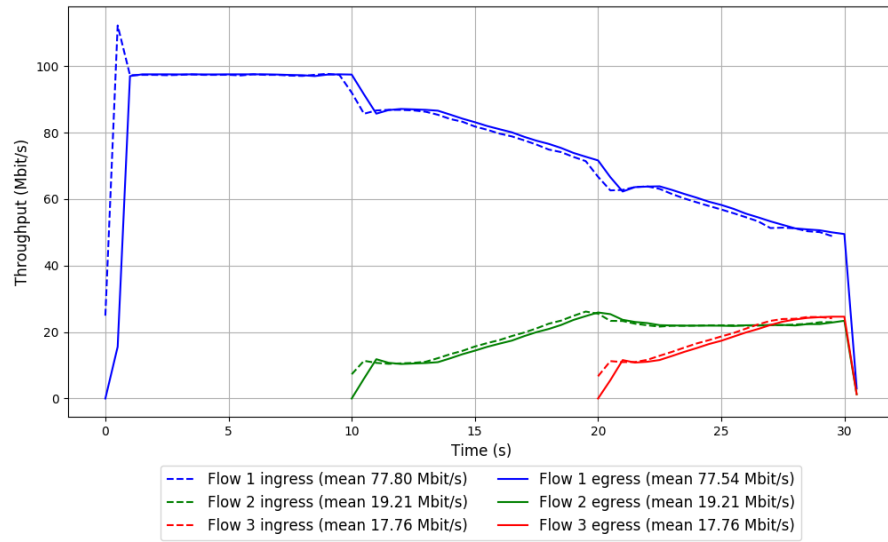
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2020-02-18 02:29:27
End at: 2020-02-18 02:29:57
Local clock offset: 4.959 ms
Remote clock offset: 5.916 ms


# Below is generated by plot.py at 2020-02-18 04:07:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 40.699 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 48.45 Mbit/s
95th percentile per-packet one-way delay: 40.277 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 52.00 Mbit/s
95th percentile per-packet one-way delay: 40.960 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 19.89 Mbit/s
95th percentile per-packet one-way delay: 40.901 ms
Loss rate: 0.01%
```
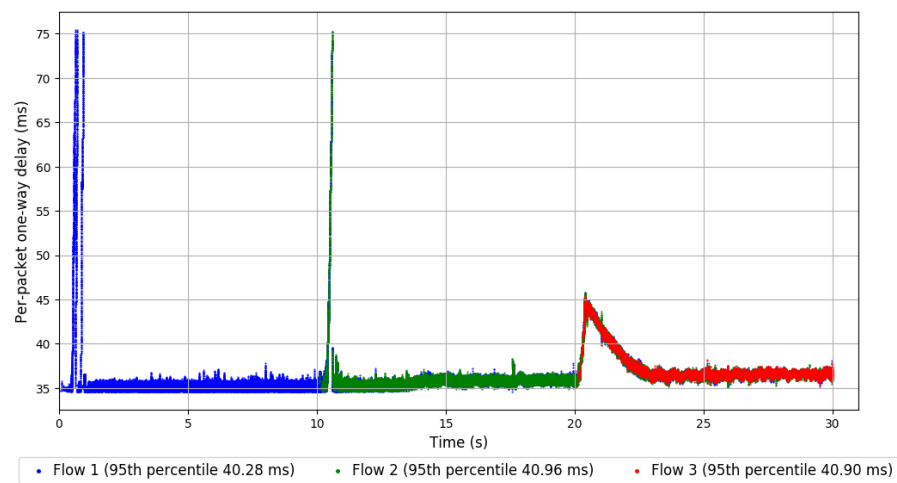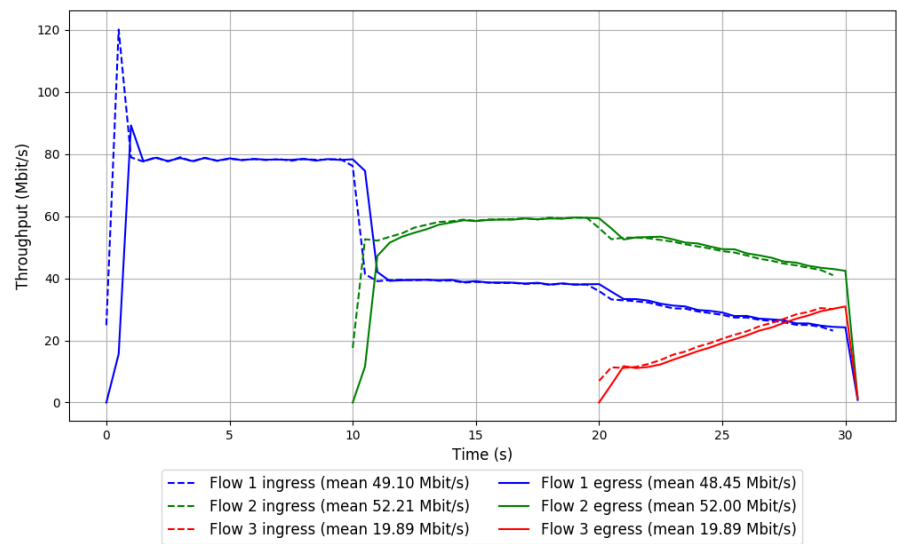
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 49.10 Mbit/s) —— Flow 1 egress (mean 48.45 Mbit/s)
Flow 2 ingress (mean 52.21 Mbit/s) —— Flow 2 egress (mean 52.00 Mbit/s)
Flow 3 ingress (mean 19.89 Mbit/s) —— Flow 3 egress (mean 19.89 Mbit/s)

Flow 1 (95th percentile 40.28 ms)   Flow 2 (95th percentile 40.96 ms)   Flow 3 (95th percentile 40.90 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2020-02-18 03:01:01
End at: 2020-02-18 03:01:31
Local clock offset: 4.628 ms
Remote clock offset: 6.104 ms


# Below is generated by plot.py at 2020-02-18 04:07:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 39.029 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 37.878 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 39.768 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 20.19 Mbit/s
95th percentile per-packet one-way delay: 40.269 ms
Loss rate: 0.00%
```
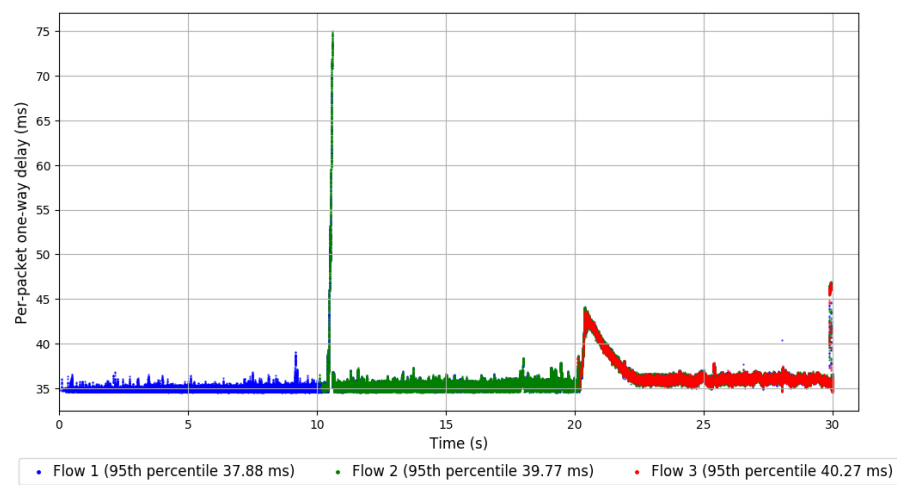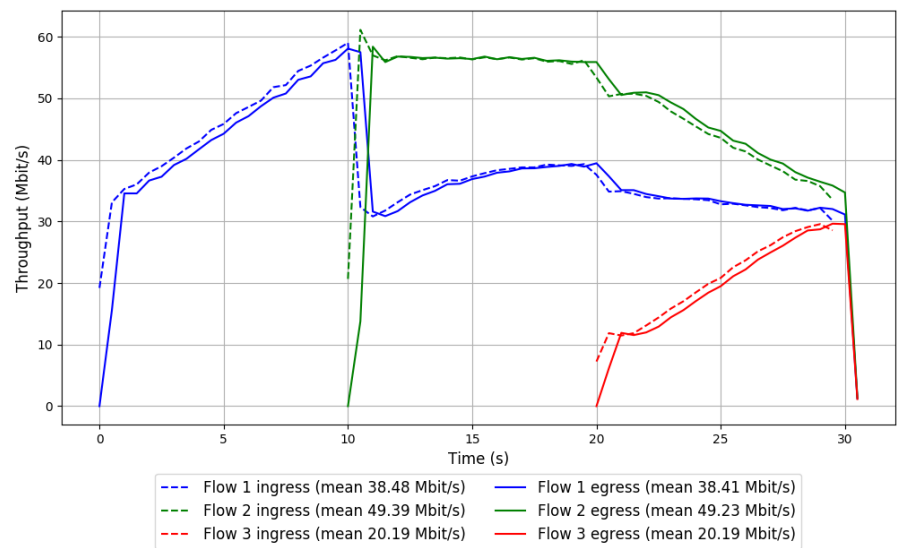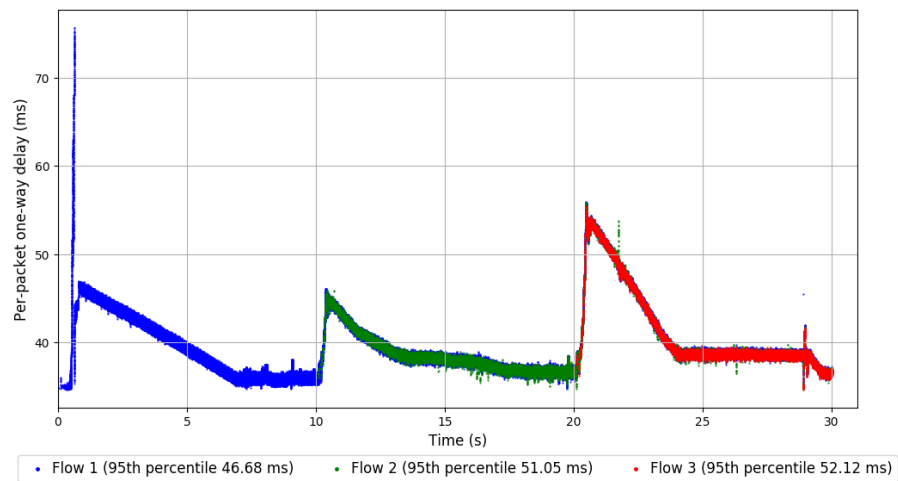
Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 38.48 Mbit/s) --- Flow 1 egress (mean 38.41 Mbit/s)
Flow 2 ingress (mean 49.39 Mbit/s) --- Flow 2 egress (mean 49.23 Mbit/s)
Flow 3 ingress (mean 20.19 Mbit/s) --- Flow 3 egress (mean 20.19 Mbit/s)

Flow 1 (95th percentile 37.88 ms)   Flow 2 (95th percentile 39.77 ms)   Flow 3 (95th percentile 40.27 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2020-02-18 03:31:38
End at: 2020-02-18 03:32:08
Local clock offset: 3.943 ms
Remote clock offset: 6.285 ms


# Below is generated by plot.py at 2020-02-18 04:08:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 48.343 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 77.22 Mbit/s
95th percentile per-packet one-way delay: 46.676 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 16.62 Mbit/s
95th percentile per-packet one-way delay: 51.045 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 52.118 ms
Loss rate: 0.00%
```
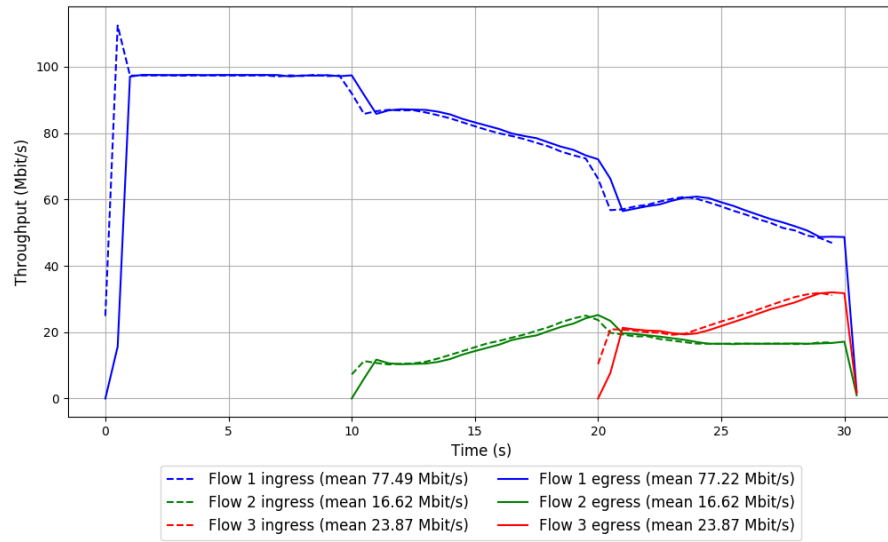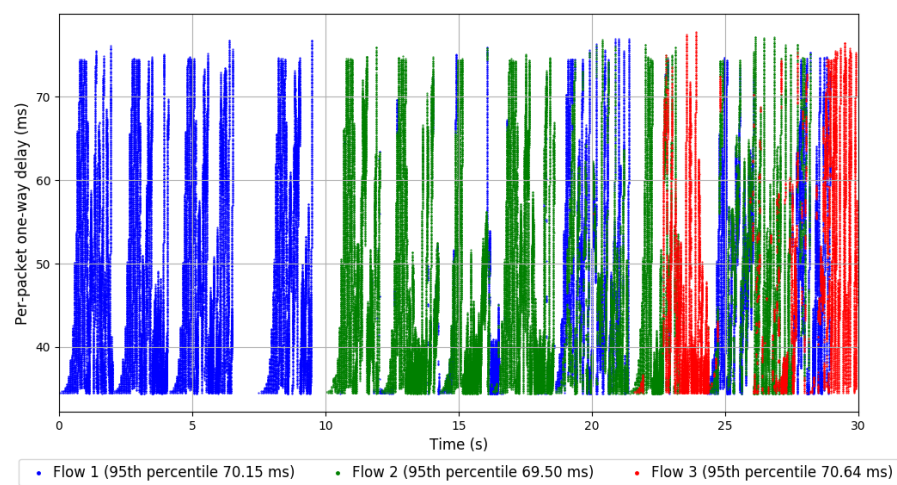
Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 77.49 Mbit/s) — Flow 1 egress (mean 77.22 Mbit/s)
Flow 2 ingress (mean 16.62 Mbit/s) — Flow 2 egress (mean 16.62 Mbit/s)
Flow 3 ingress (mean 23.87 Mbit/s) — Flow 3 egress (mean 23.87 Mbit/s)

Flow 1 (95th percentile 46.68 ms)   Flow 2 (95th percentile 51.05 ms)   Flow 3 (95th percentile 52.12 ms)

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```
Run 1: Statistics of Verus

Start at: 2020-02-18 01:32:46
End at: 2020-02-18 01:33:17
Local clock offset: 4.183 ms
Remote clock offset: 5.517 ms


# Below is generated by plot.py at 2020-02-18 04:08:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.82 Mbit/s
95th percentile per-packet one-way delay: 69.962 ms
Loss rate: 26.92%
-- Flow 1:
Average throughput: 30.72 Mbit/s
95th percentile per-packet one-way delay: 70.153 ms
Loss rate: 24.88%
-- Flow 2:
Average throughput: 46.36 Mbit/s
95th percentile per-packet one-way delay: 69.505 ms
Loss rate: 24.54%
-- Flow 3:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 70.639 ms
Loss rate: 41.25%
```
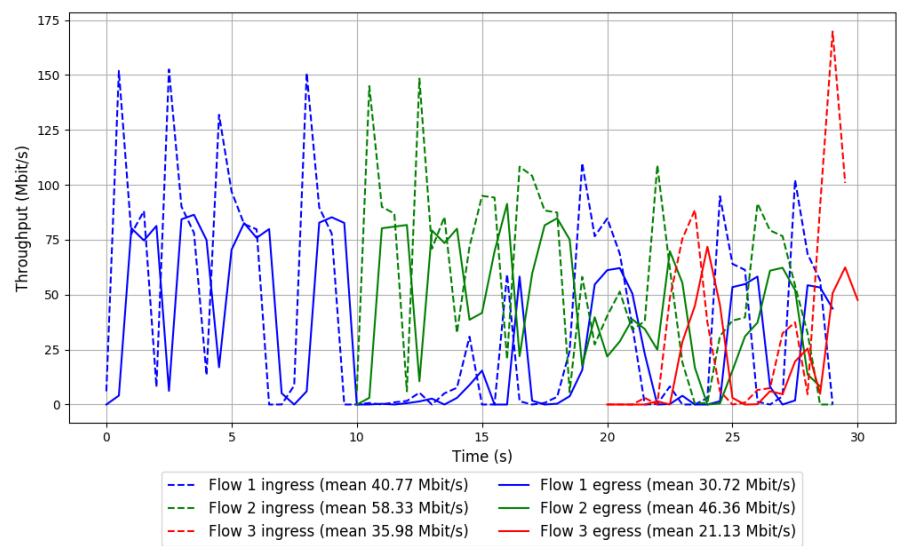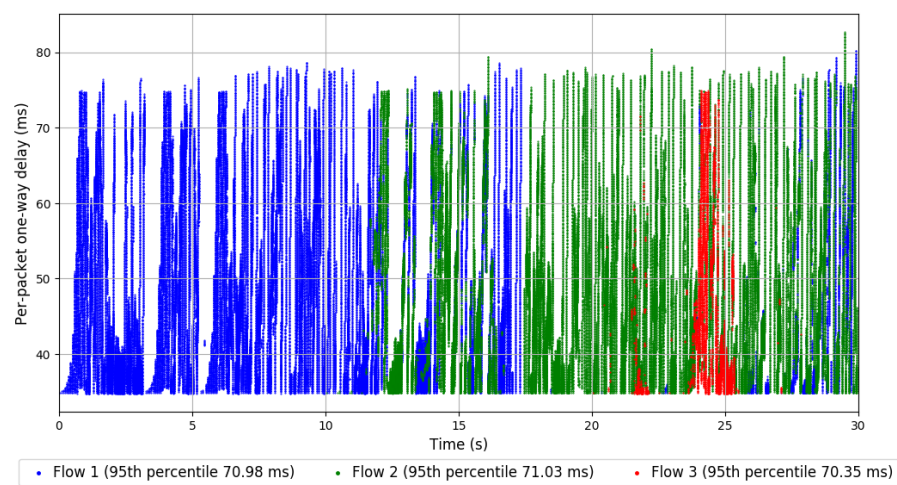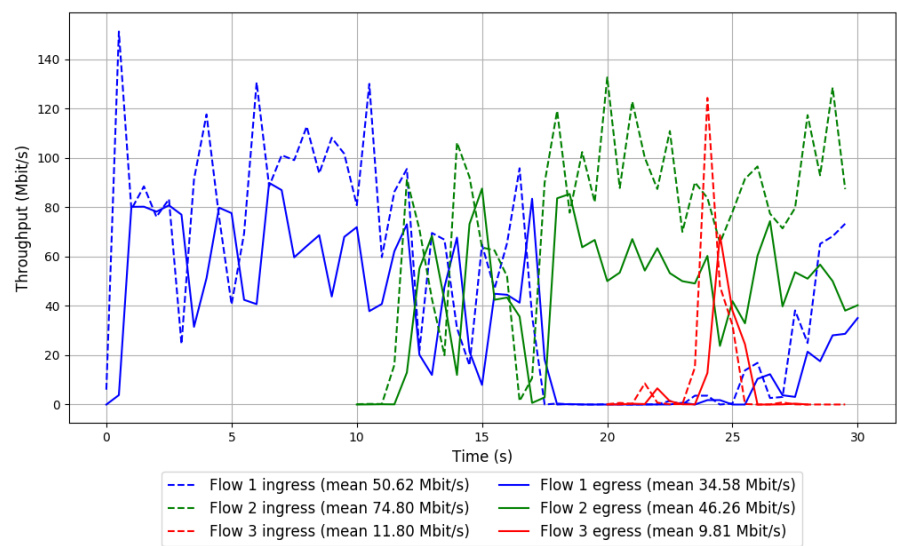
Run 1: Report of Verus — Data Link

Flow 1 ingress (mean 40.77 Mbit/s) — Flow 1 egress (mean 30.72 Mbit/s)
Flow 2 ingress (mean 58.33 Mbit/s) — Flow 2 egress (mean 46.36 Mbit/s)
Flow 3 ingress (mean 35.98 Mbit/s) — Flow 3 egress (mean 21.13 Mbit/s)

Flow 1 (95th percentile 70.15 ms)   Flow 2 (95th percentile 69.50 ms)   Flow 3 (95th percentile 70.64 ms)

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```
Run 2: Statistics of Verus

Start at: 2020-02-18 02:04:55
End at: 2020-02-18 02:05:25
Local clock offset: 4.053 ms
Remote clock offset: 5.973 ms


# Below is generated by plot.py at 2020-02-18 04:08:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.87 Mbit/s
95th percentile per-packet one-way delay: 70.981 ms
Loss rate: 34.83%
-- Flow 1:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 70.984 ms
Loss rate: 31.68%
-- Flow 2:
Average throughput: 46.26 Mbit/s
95th percentile per-packet one-way delay: 71.031 ms
Loss rate: 38.12%
-- Flow 3:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 70.349 ms
Loss rate: 33.84%
```
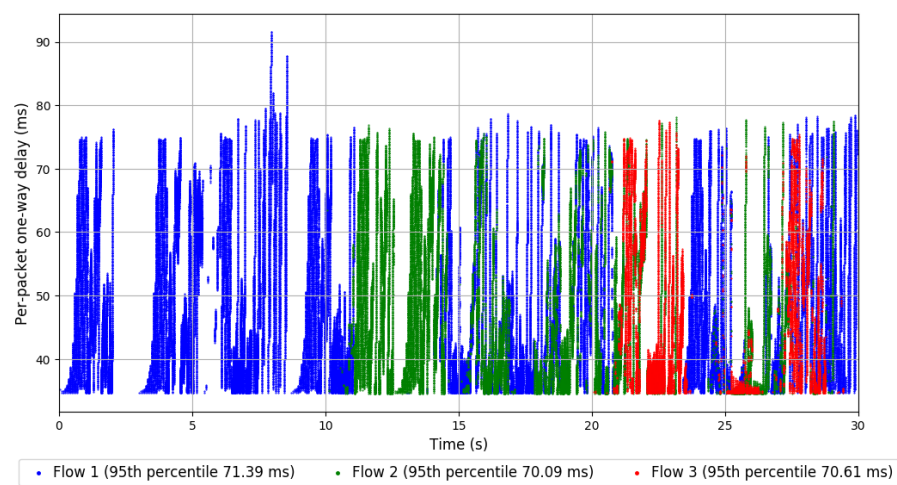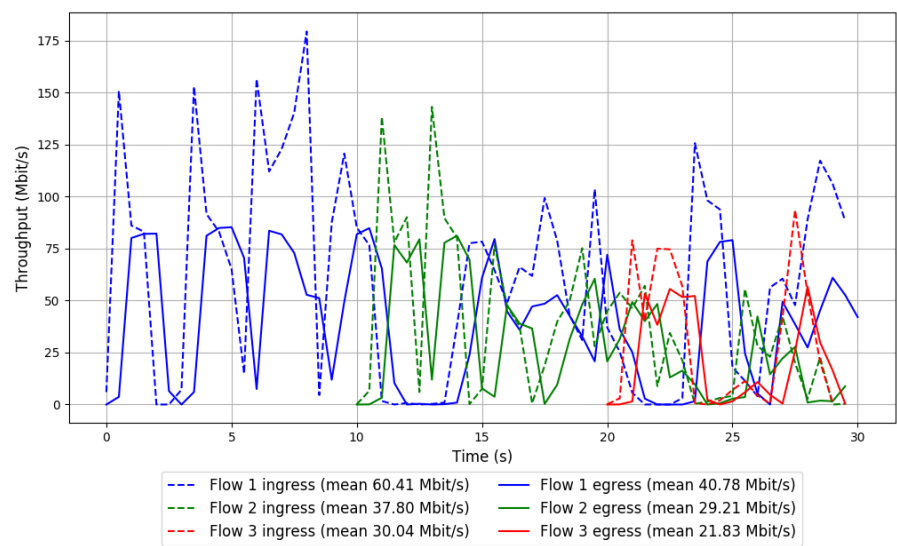
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2020-02-18 02:35:48
End at: 2020-02-18 02:36:18
Local clock offset: 4.952 ms
Remote clock offset: 5.962 ms


# Below is generated by plot.py at 2020-02-18 04:08:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.16 Mbit/s
95th percentile per-packet one-way delay: 70.929 ms
Loss rate: 30.12%
-- Flow 1:
Average throughput: 40.78 Mbit/s
95th percentile per-packet one-way delay: 71.387 ms
Loss rate: 32.46%
-- Flow 2:
Average throughput: 29.21 Mbit/s
95th percentile per-packet one-way delay: 70.088 ms
Loss rate: 25.29%
-- Flow 3:
Average throughput: 21.83 Mbit/s
95th percentile per-packet one-way delay: 70.609 ms
Loss rate: 27.83%
```
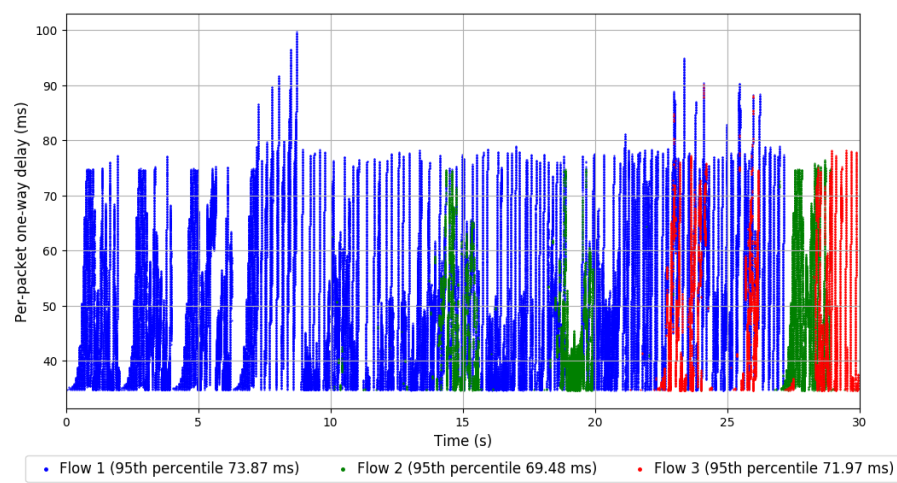
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2020-02-18 03:07:34
End at: 2020-02-18 03:08:04
Local clock offset: 3.987 ms
Remote clock offset: 6.191 ms


# Below is generated by plot.py at 2020-02-18 04:08:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.78 Mbit/s
95th percentile per-packet one-way delay: 73.323 ms
Loss rate: 49.81%
-- Flow 1:
Average throughput: 51.36 Mbit/s
95th percentile per-packet one-way delay: 73.869 ms
Loss rate: 53.16%
-- Flow 2:
Average throughput: 12.36 Mbit/s
95th percentile per-packet one-way delay: 69.476 ms
Loss rate: 24.21%
-- Flow 3:
Average throughput: 17.48 Mbit/s
95th percentile per-packet one-way delay: 71.966 ms
Loss rate: 41.54%
```
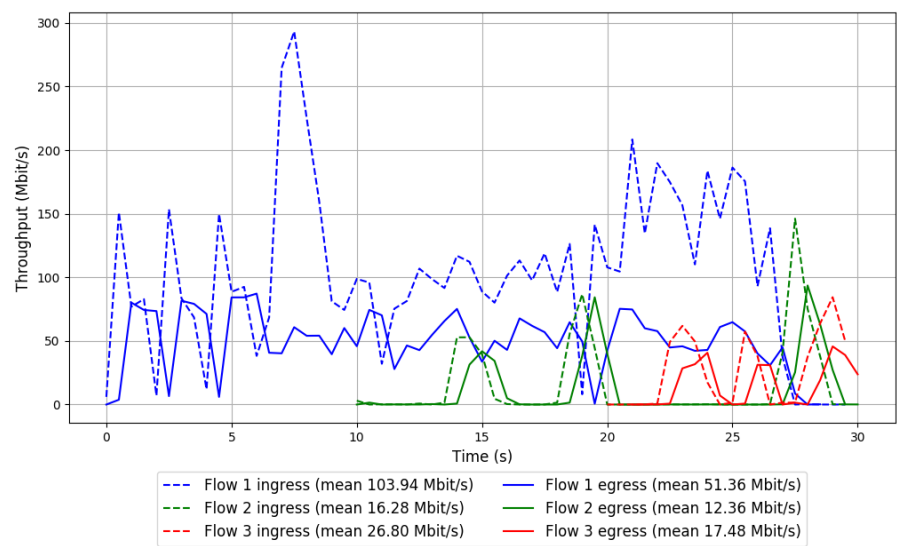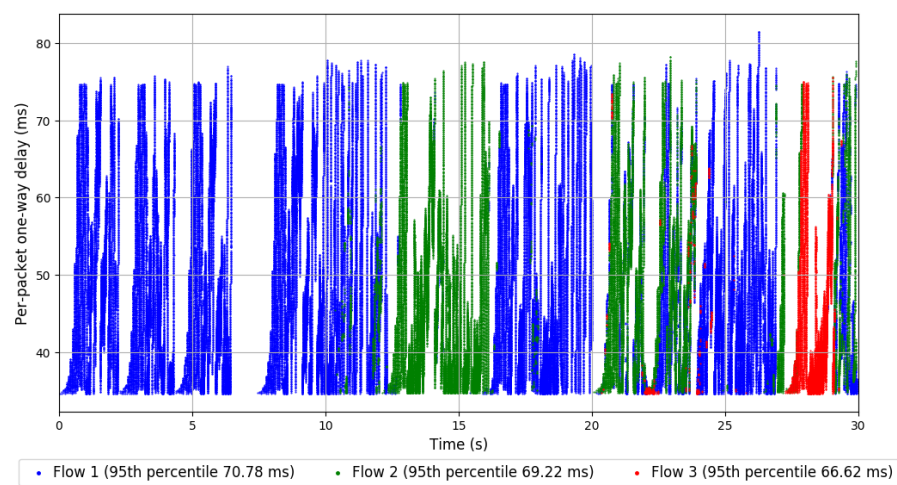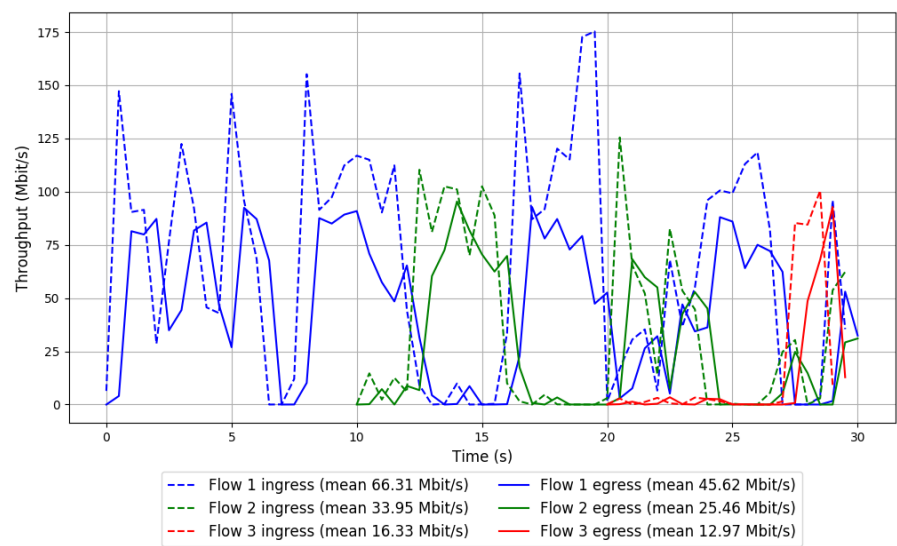
Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 103.94 Mbit/s)   Flow 1 egress (mean 51.36 Mbit/s)
Flow 2 ingress (mean 16.28 Mbit/s)   Flow 2 egress (mean 12.36 Mbit/s)
Flow 3 ingress (mean 26.80 Mbit/s)   Flow 3 egress (mean 17.48 Mbit/s)

Flow 1 (95th percentile 73.87 ms)   Flow 2 (95th percentile 69.48 ms)   Flow 3 (95th percentile 71.97 ms)

```
Run 5: Statistics of Verus

Start at: 2020-02-18 03:37:46
End at: 2020-02-18 03:38:16
Local clock offset: 4.519 ms
Remote clock offset: 6.358 ms


# Below is generated by plot.py at 2020-02-18 04:08:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.20 Mbit/s
95th percentile per-packet one-way delay: 70.310 ms
Loss rate: 29.19%
-- Flow 1:
Average throughput: 45.62 Mbit/s
95th percentile per-packet one-way delay: 70.783 ms
Loss rate: 31.19%
-- Flow 2:
Average throughput: 25.46 Mbit/s
95th percentile per-packet one-way delay: 69.221 ms
Loss rate: 25.01%
-- Flow 3:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 66.622 ms
Loss rate: 21.16%
```
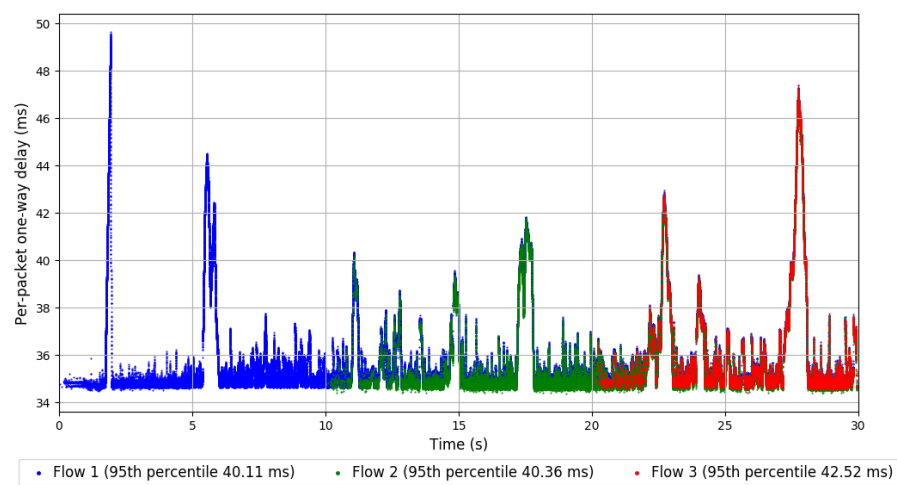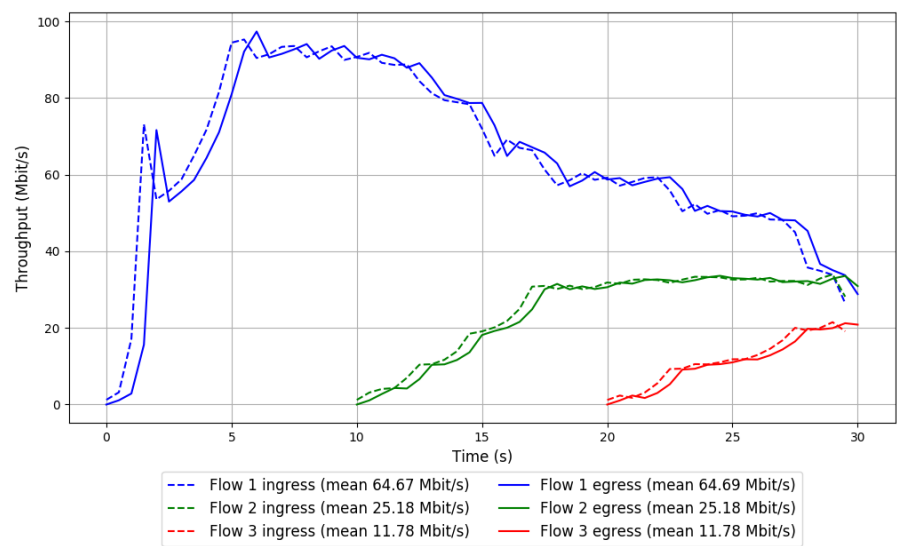
Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 66.31 Mbit/s)   Flow 1 egress (mean 45.62 Mbit/s)

Flow 2 ingress (mean 33.95 Mbit/s)   Flow 2 egress (mean 25.46 Mbit/s)

Flow 3 ingress (mean 16.33 Mbit/s)   Flow 3 egress (mean 12.97 Mbit/s)

Flow 1 (95th percentile 70.78 ms)   Flow 2 (95th percentile 69.22 ms)   Flow 3 (95th percentile 66.62 ms)

```
Run 1: Statistics of PCC-Vivace

Start at: 2020-02-18 01:43:02
End at: 2020-02-18 01:43:32
Local clock offset: 3.48 ms
Remote clock offset: 5.742 ms


# Below is generated by plot.py at 2020-02-18 04:08:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 40.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.69 Mbit/s
95th percentile per-packet one-way delay: 40.112 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 25.18 Mbit/s
95th percentile per-packet one-way delay: 40.356 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 42.525 ms
Loss rate: 0.00%
```
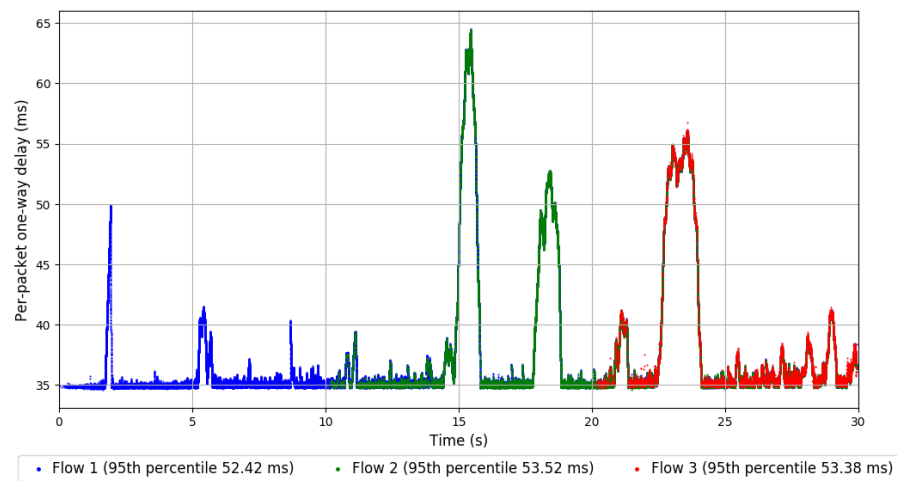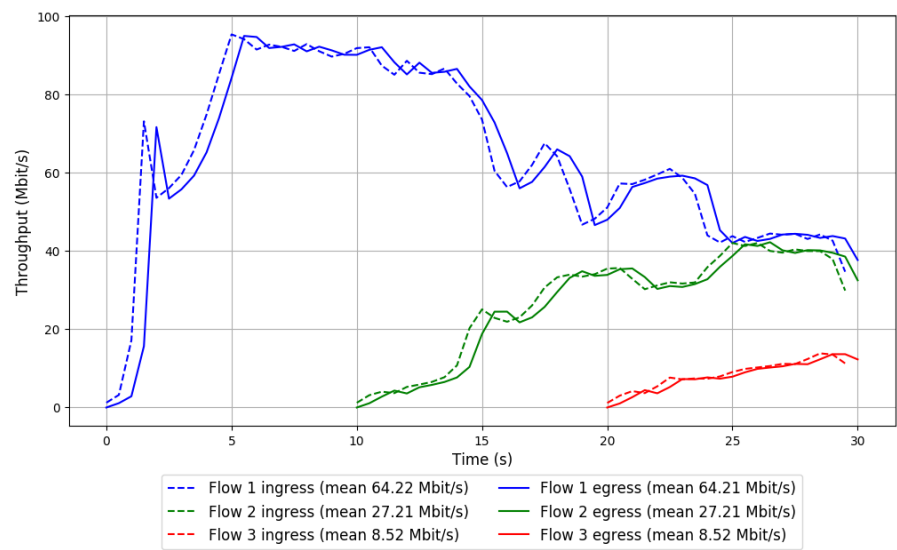
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2020-02-18 02:15:13
End at: 2020-02-18 02:15:43
Local clock offset: 4.677 ms
Remote clock offset: 6.292 ms


# Below is generated by plot.py at 2020-02-18 04:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.11 Mbit/s
95th percentile per-packet one-way delay: 52.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.21 Mbit/s
95th percentile per-packet one-way delay: 52.418 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.21 Mbit/s
95th percentile per-packet one-way delay: 53.515 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 53.385 ms
Loss rate: 0.00%
```
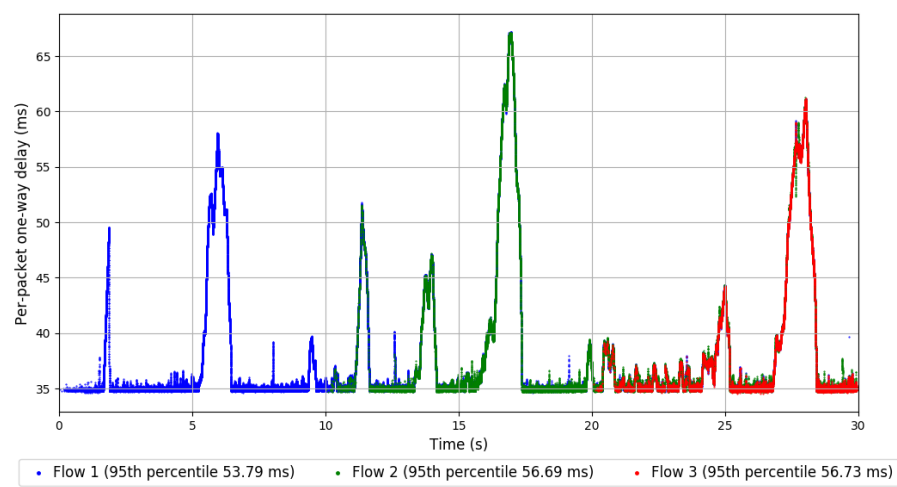
Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2020-02-18 02:45:53
End at: 2020-02-18 02:46:23
Local clock offset: 4.99 ms
Remote clock offset: 6.13 ms


# Below is generated by plot.py at 2020-02-18 04:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.85 Mbit/s
95th percentile per-packet one-way delay: 54.855 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.12 Mbit/s
95th percentile per-packet one-way delay: 53.792 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 56.693 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.85 Mbit/s
95th percentile per-packet one-way delay: 56.725 ms
Loss rate: 0.00%
```
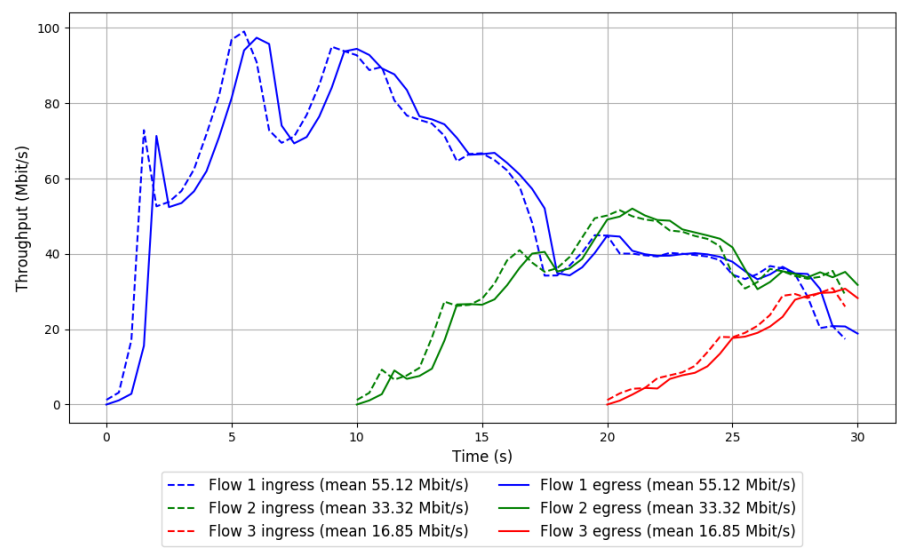
Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2020-02-18 03:17:36
End at: 2020-02-18 03:18:06
Local clock offset: 3.569 ms
Remote clock offset: 6.235 ms


# Below is generated by plot.py at 2020-02-18 04:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 47.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.17 Mbit/s
95th percentile per-packet one-way delay: 47.159 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.66 Mbit/s
95th percentile per-packet one-way delay: 45.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 49.955 ms
Loss rate: 0.00%
```
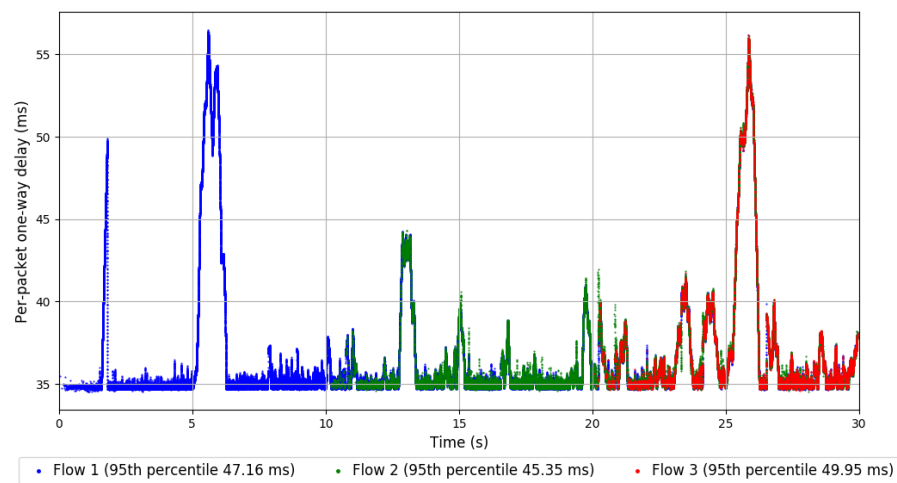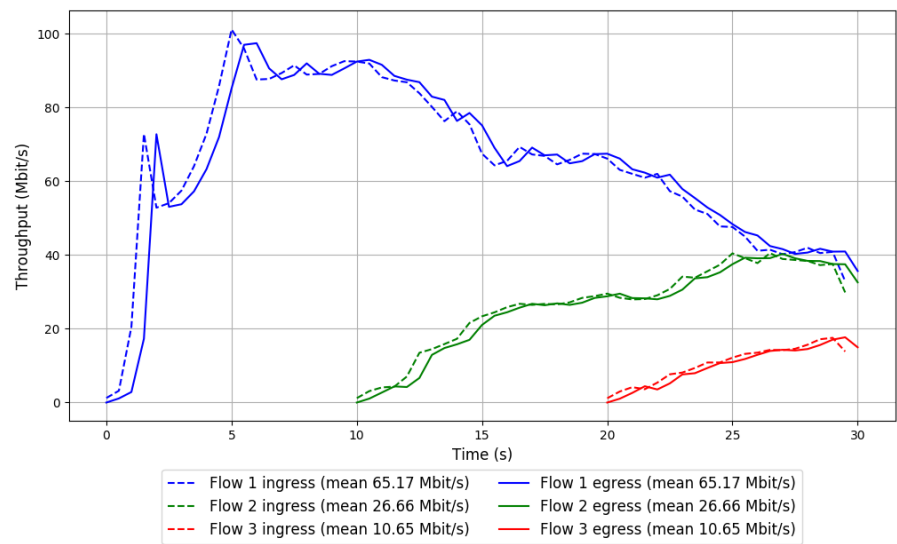
Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2020-02-18 03:47:44
End at: 2020-02-18 03:48:14
Local clock offset: 4.929 ms
Remote clock offset: 6.422 ms


# Below is generated by plot.py at 2020-02-18 04:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.14 Mbit/s
95th percentile per-packet one-way delay: 56.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.06 Mbit/s
95th percentile per-packet one-way delay: 52.995 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.76 Mbit/s
95th percentile per-packet one-way delay: 61.427 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 65.220 ms
Loss rate: 0.00%
```
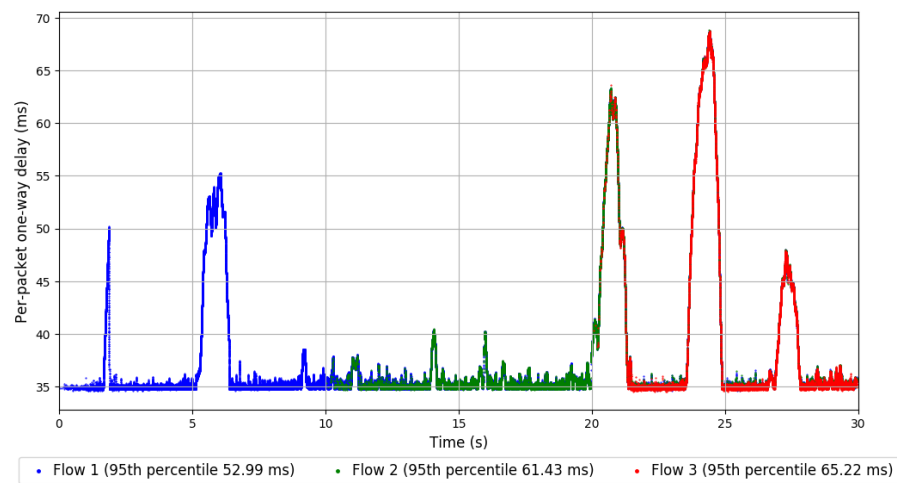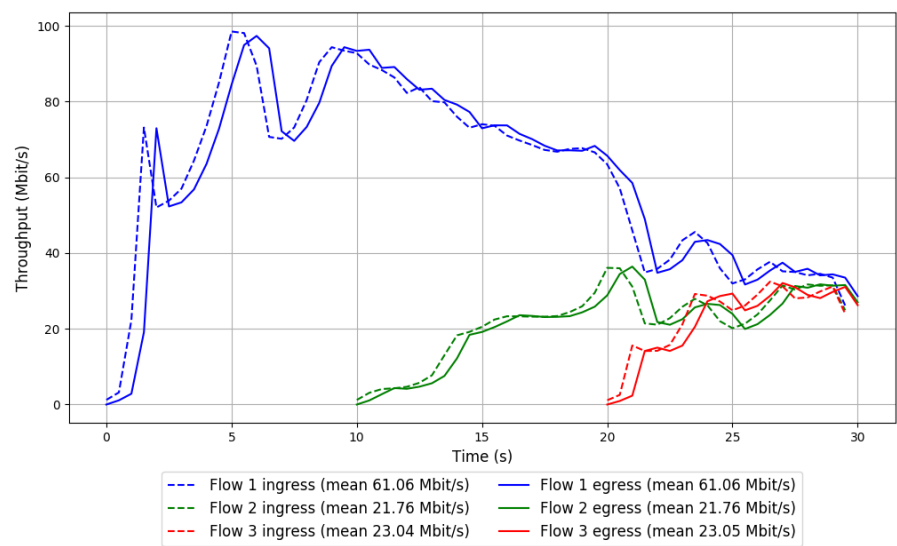
Run 5: Report of PCC-Vivace — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2020-02-18 01:44:26
End at: 2020-02-18 01:44:56
Local clock offset: 3.45 ms
Remote clock offset: 5.701 ms


# Below is generated by plot.py at 2020-02-18 04:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 35.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.312 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 35.216 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 35.223 ms
Loss rate: 0.00%
```
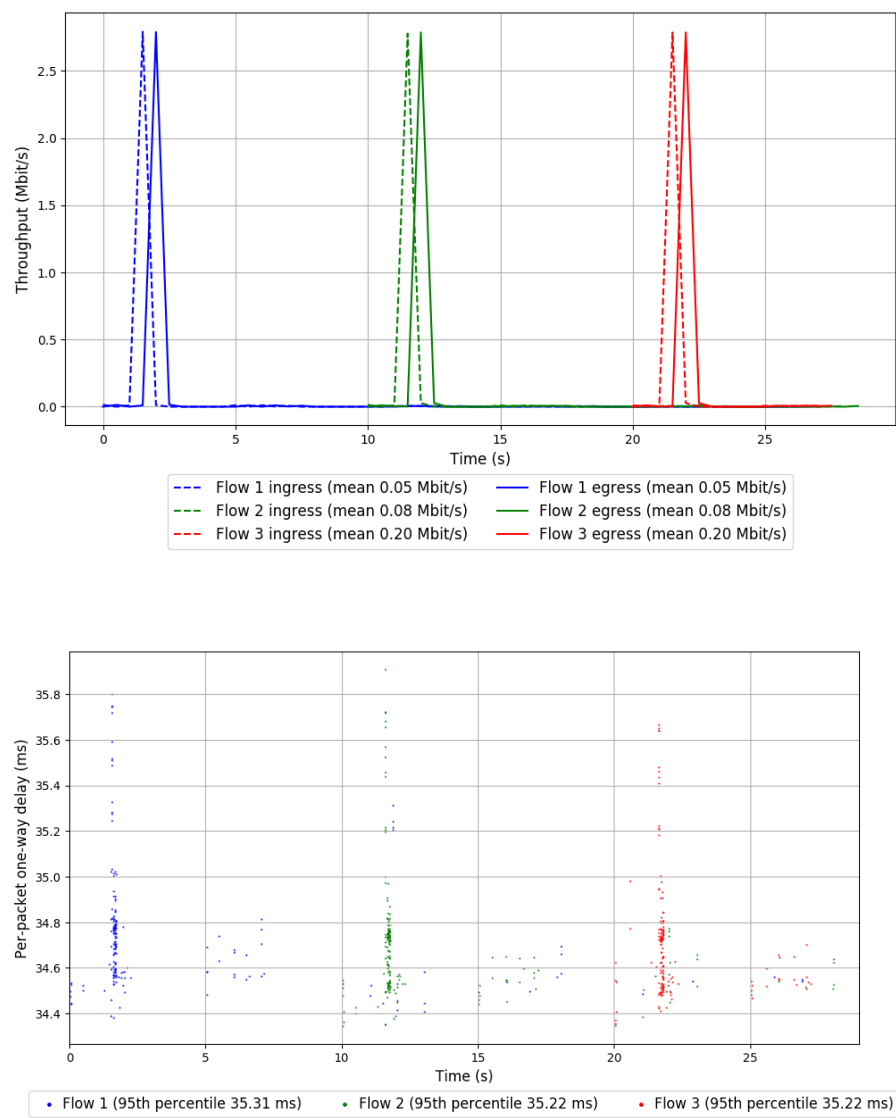
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2020-02-18 02:16:36
End at: 2020-02-18 02:17:06
Local clock offset: 4.698 ms
Remote clock offset: 6.197 ms


# Below is generated by plot.py at 2020-02-18 04:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 35.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.456 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 35.579 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 35.738 ms
Loss rate: 0.00%
```
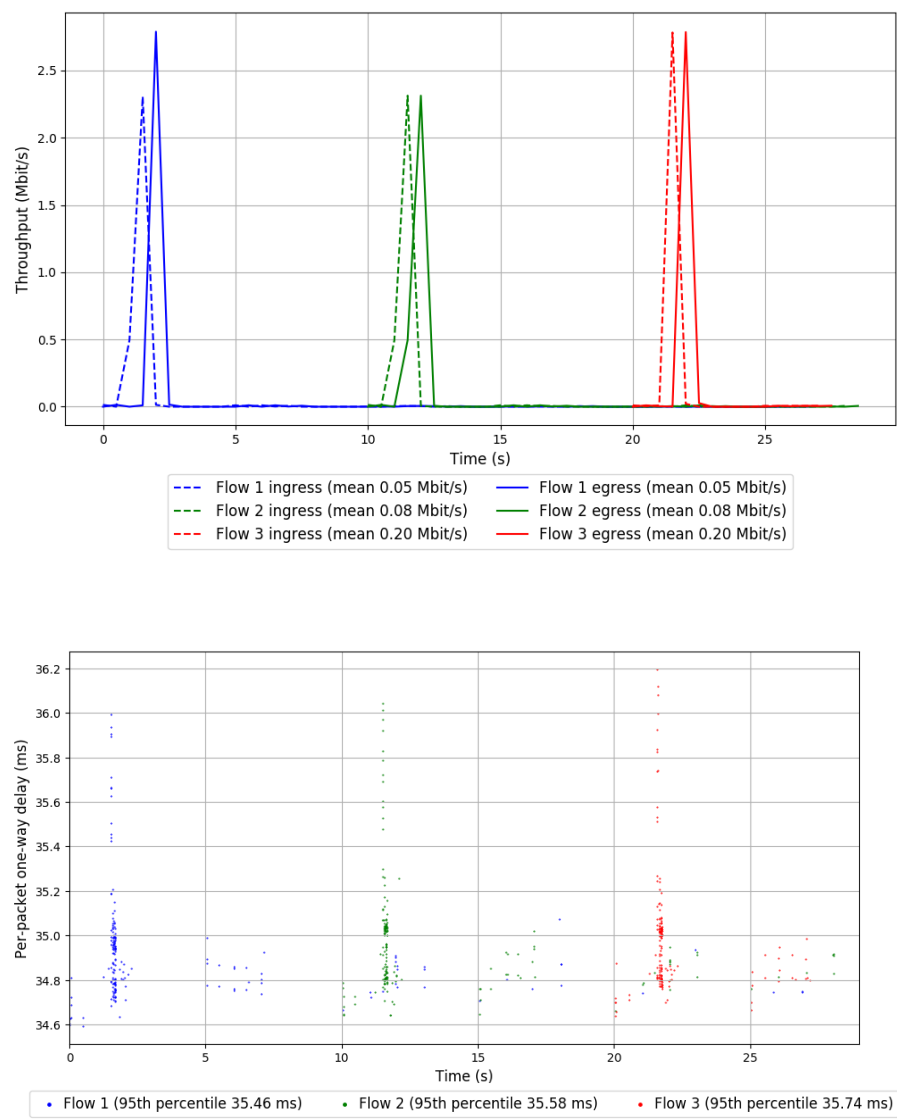
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2020-02-18 02:47:23
End at: 2020-02-18 02:47:53
Local clock offset: 4.989 ms
Remote clock offset: 6.146 ms


# Below is generated by plot.py at 2020-02-18 04:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 35.671 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.555 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 35.666 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 35.788 ms
Loss rate: 0.00%
```
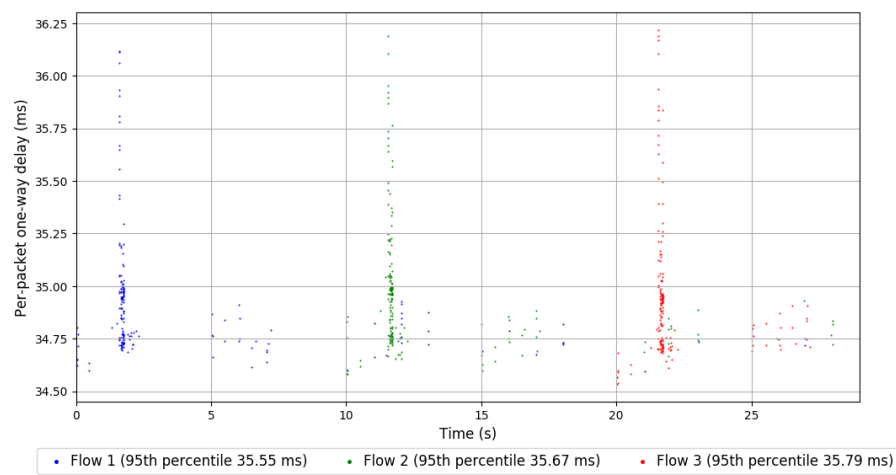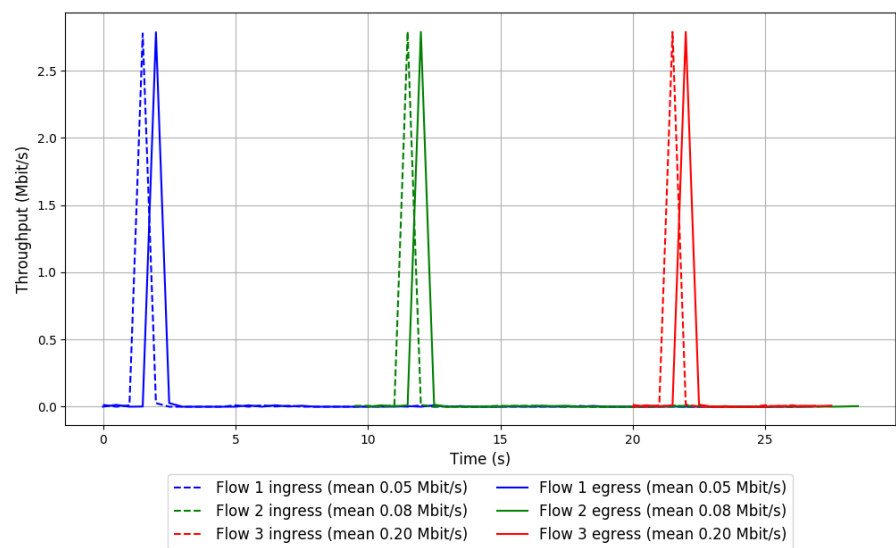
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2020-02-18 03:18:59
End at: 2020-02-18 03:19:29
Local clock offset: 3.552 ms
Remote clock offset: 6.176 ms


# Below is generated by plot.py at 2020-02-18 04:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 35.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.321 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 35.461 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 35.381 ms
Loss rate: 0.00%
```
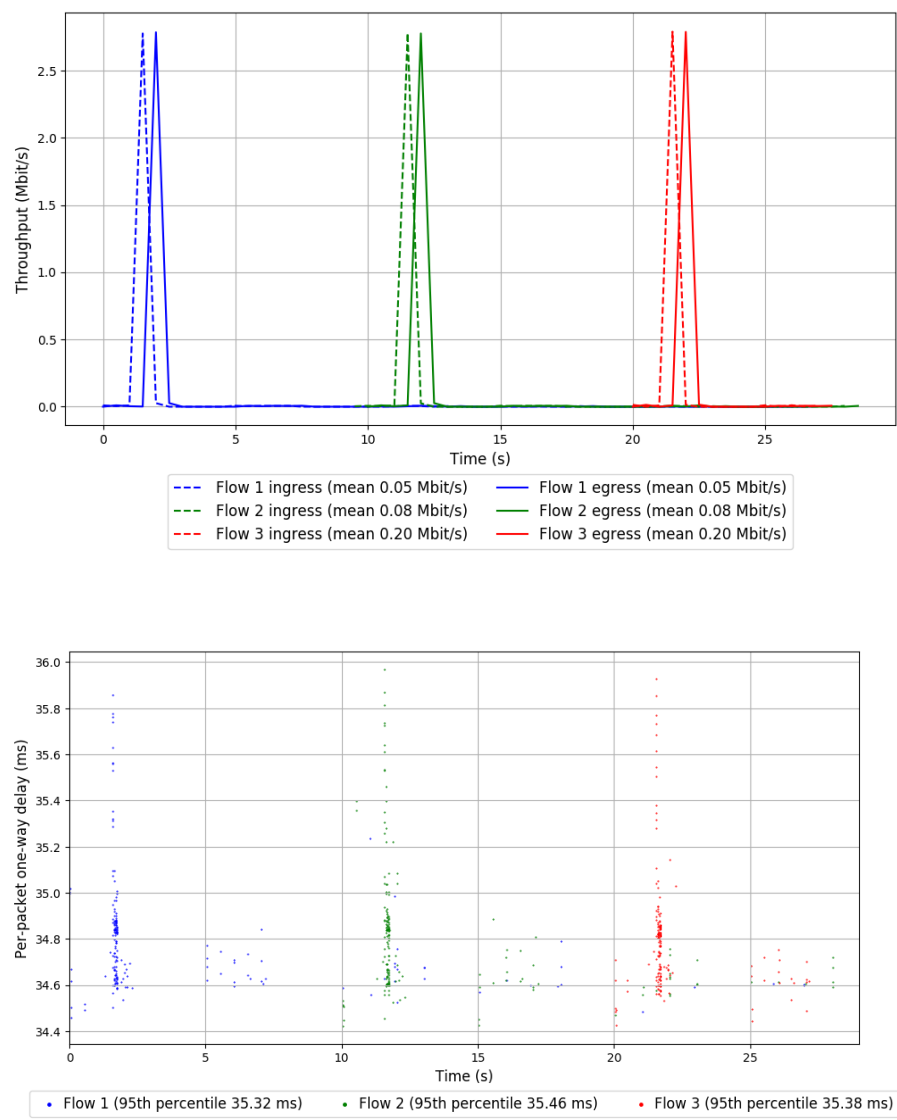
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2020-02-18 03:48:59
End at: 2020-02-18 03:49:29
Local clock offset: 4.947 ms
Remote clock offset: 6.46 ms


# Below is generated by plot.py at 2020-02-18 04:08:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 35.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 35.579 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 35.616 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 35.727 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link