Pantheon Report

Generated at 2019-02-11 19:29:46 (UTC).

Data path: AWS Brazil 1 on ens5 (*local*) →Brazil on p4p1 (*remote*).

Repeated the test of 21 congestion control schemes 5 times.

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

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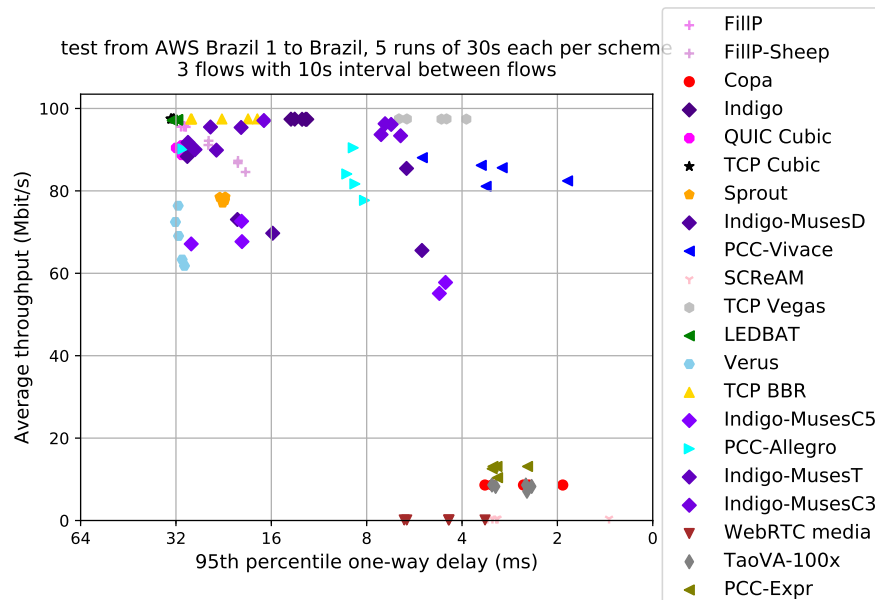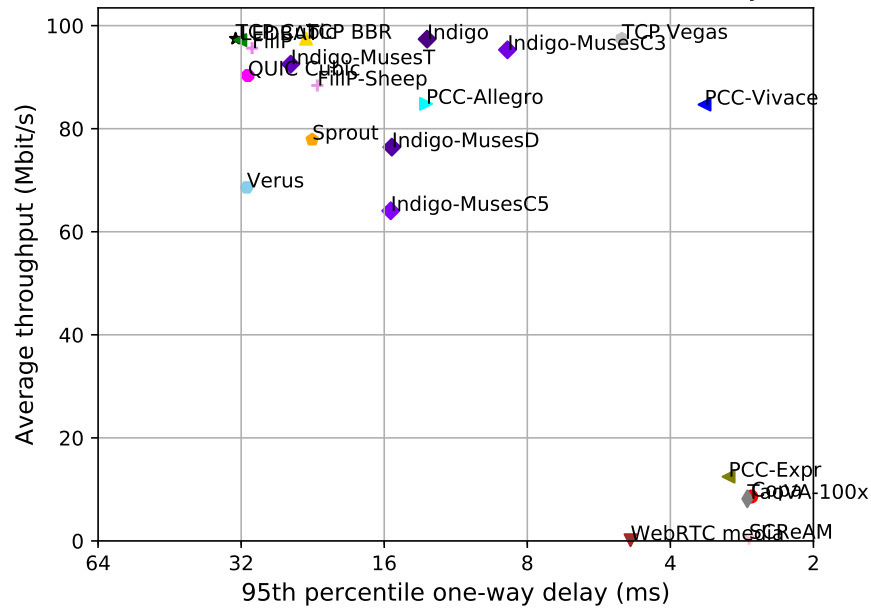
```
System info:
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
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/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
```

```
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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

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

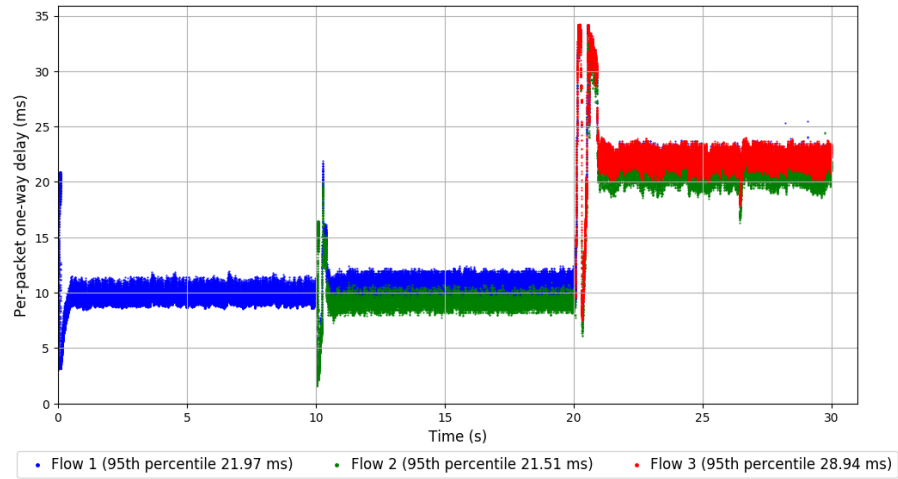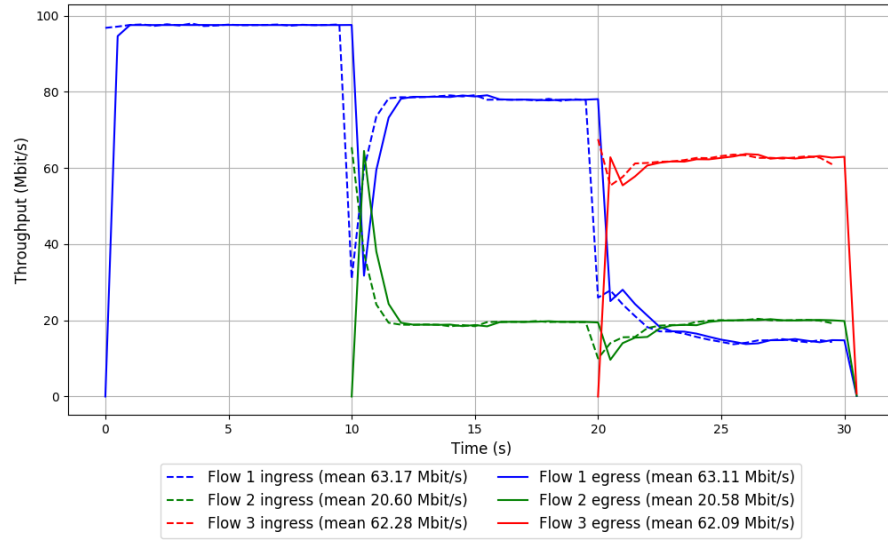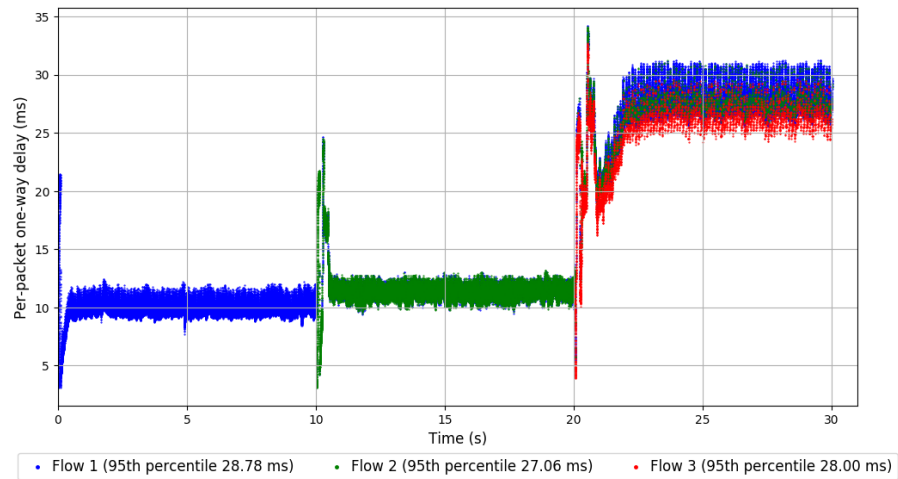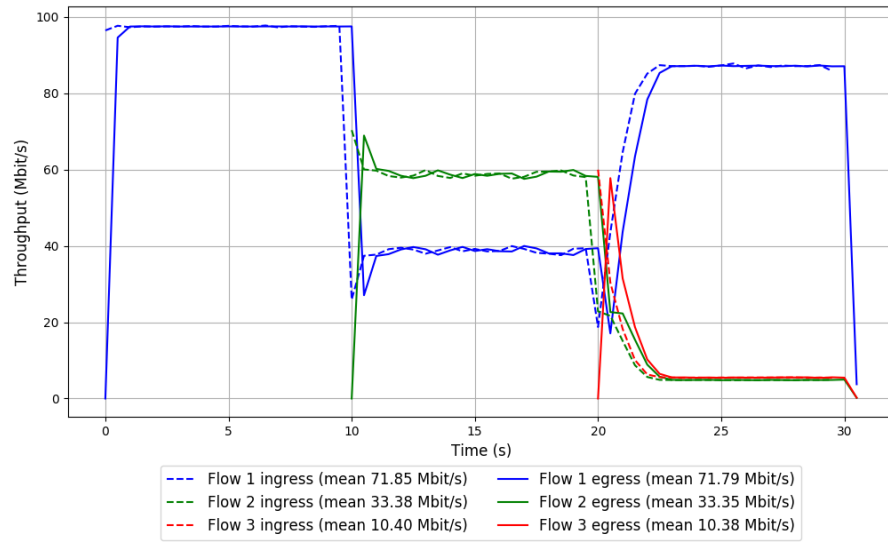| scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	67.15	33.89	23.27	23.02	22.72	26.38	0.01	0.01	0.09
Copa	5	0.00	12.55	2.78	2.33	2.72	2.72	98.27	64.56	84.02
TCP Cubic	5	63.05	37.12	29.21	32.75	32.89	32.04	0.04	0.04	0.04
FillP	5	44.40	59.86	34.36	28.89	30.37	30.16	12.82	18.17	43.49
FillP-Sheep	5	56.16	30.69	35.63	19.88	22.42	25.10	0.78	1.00	3.55
Indigo	5	46.68	44.19	65.64	11.29	13.25	13.04	0.00	0.00	0.00
Indigo-MusesC3	5	64.37	32.35	32.75	8.39	9.22	9.84	0.00	0.00	0.00
Indigo-MusesC5	5	34.43	30.33	32.65	14.54	16.06	15.76	0.00	0.00	0.00
Indigo-MusesD	5	46.00	35.25	25.03	13.76	15.86	17.29	0.05	0.05	0.48
Indigo-MusesT	5	58.08	40.33	27.12	23.29	25.59	28.31	0.12	0.28	0.64
LEDBAT	5	60.69	39.75	30.31	32.22	31.78	31.58	0.03	0.06	0.12
PCC-Allegro	5	66.39	22.92	9.69	9.39	15.45	20.43	0.03	0.06	0.30
PCC-Expr	5	7.21	5.53	4.80	3.12	2.72	2.45	32.28	24.00	25.31
QUIC Cubic	5	57.93	34.80	28.16	30.45	31.20	30.94	0.16	0.23	0.29
SCReAM	5	0.22	0.22	0.22	1.57	2.15	2.45	0.00	0.00	0.00
Sprout	5	41.87	39.54	29.41	20.98	21.95	25.43	0.00	0.00	0.00
TaoVA-100x	5	0.00	9.20	6.16	2.15	2.75	2.58	95.92	81.38	92.33
TCP Vegas	5	53.34	40.65	51.19	6.90	3.83	4.31	0.00	0.00	0.00
Verus	5	36.96	33.81	27.63	29.29	31.65	32.16	9.21	15.10	20.80
PCC-Vivace	5	53.27	33.18	28.29	2.33	4.77	7.34	0.00	0.02	0.02
WebRTC media	5	0.05	0.05	0.05	4.61	5.50	4.43	0.00	0.00	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2019-02-11 17:26:33
End at: 2019-02-11 17:27:03
Local clock offset: -1.005 ms
Remote clock offset: -0.381 ms


# Below is generated by plot.py at 2019-02-11 19:19:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 22.914 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 63.11 Mbit/s
95th percentile per-packet one-way delay: 21.966 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 21.513 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 62.09 Mbit/s
95th percentile per-packet one-way delay: 28.937 ms
Loss rate: 0.18%
```

Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 63.17 Mbit/s)   Flow 1 egress (mean 63.11 Mbit/s)
Flow 2 ingress (mean 20.60 Mbit/s)   Flow 2 egress (mean 20.58 Mbit/s)
Flow 3 ingress (mean 62.28 Mbit/s)   Flow 3 egress (mean 62.09 Mbit/s)

Flow 1 (95th percentile 21.97 ms)   Flow 2 (95th percentile 21.51 ms)   Flow 3 (95th percentile 28.94 ms)

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```
Run 2: Statistics of TCP BBR

Start at: 2019-02-11 17:50:29
End at: 2019-02-11 17:50:59
Local clock offset: -1.699 ms
Remote clock offset: -0.221 ms


# Below is generated by plot.py at 2019-02-11 19:19:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 28.555 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.79 Mbit/s
95th percentile per-packet one-way delay: 28.777 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 33.35 Mbit/s
95th percentile per-packet one-way delay: 27.064 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.38 Mbit/s
95th percentile per-packet one-way delay: 27.996 ms
Loss rate: 0.03%
```
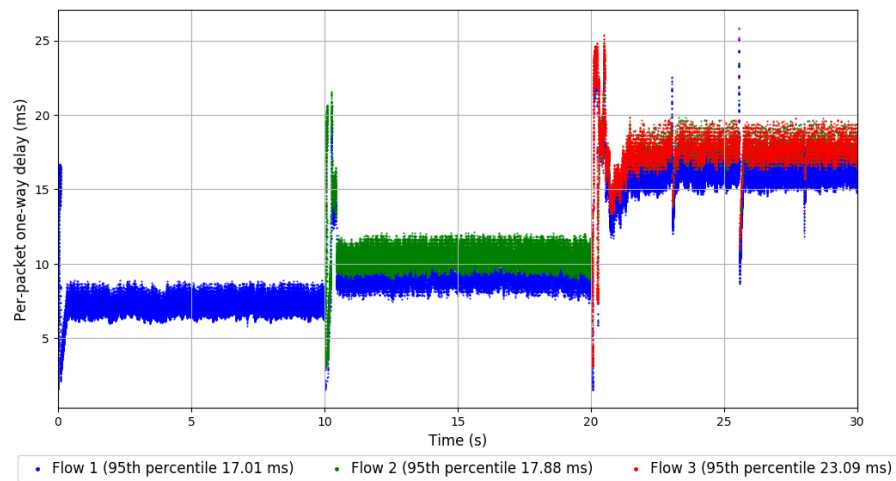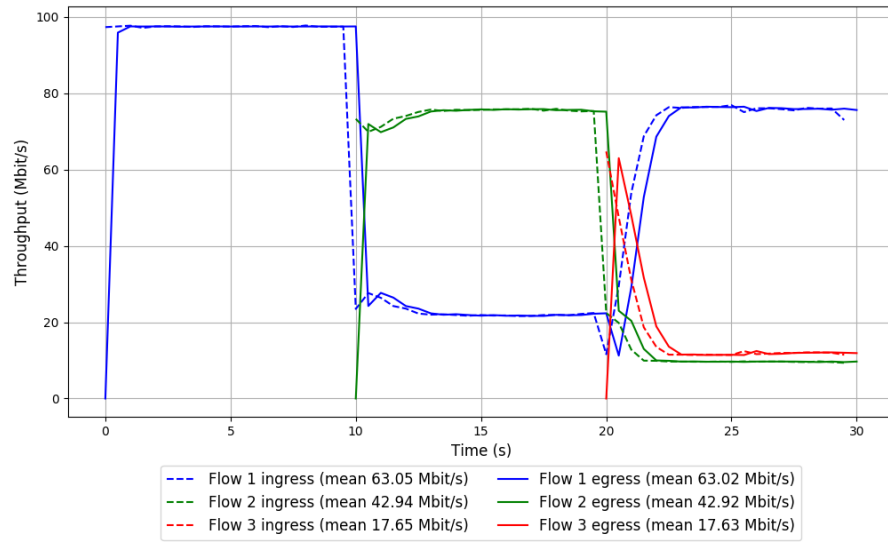
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2019-02-11 18:14:25
End at: 2019-02-11 18:14:55
Local clock offset: -3.084 ms
Remote clock offset: 0.031 ms


# Below is generated by plot.py at 2019-02-11 19:19:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 17.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.02 Mbit/s
95th percentile per-packet one-way delay: 17.014 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 17.875 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.63 Mbit/s
95th percentile per-packet one-way delay: 23.089 ms
Loss rate: 0.00%
```
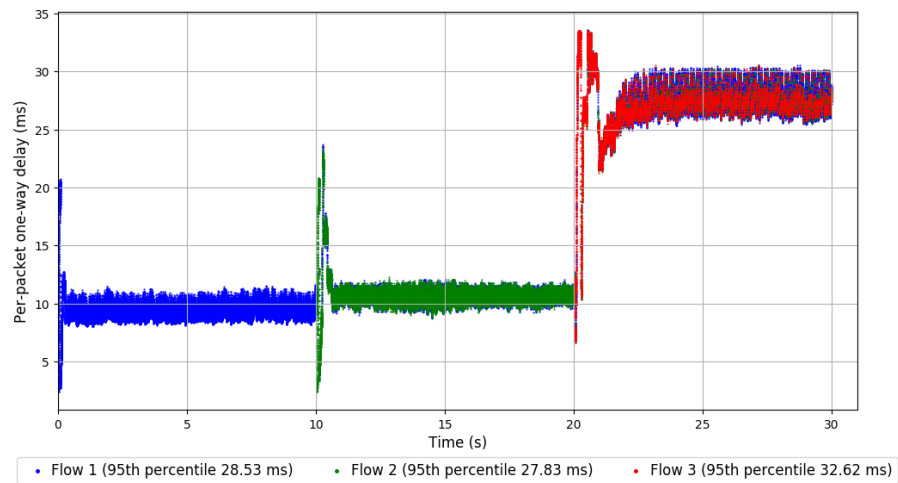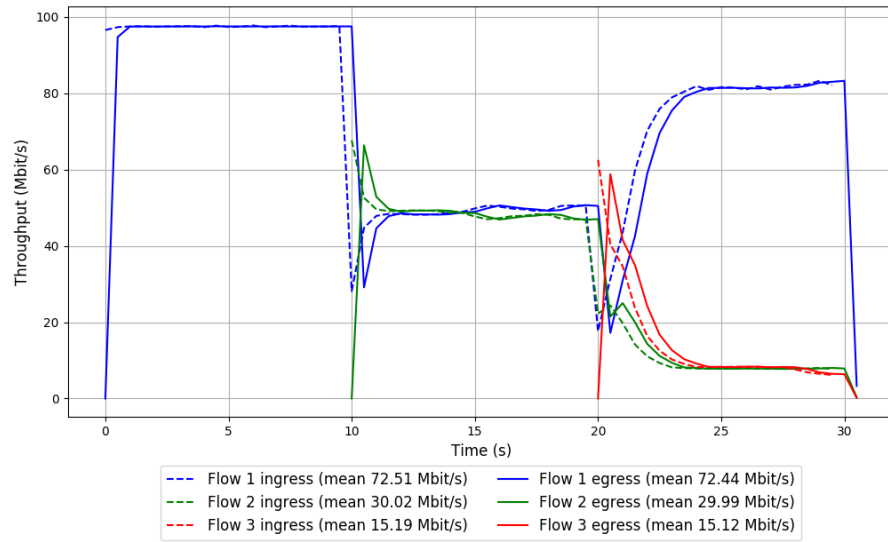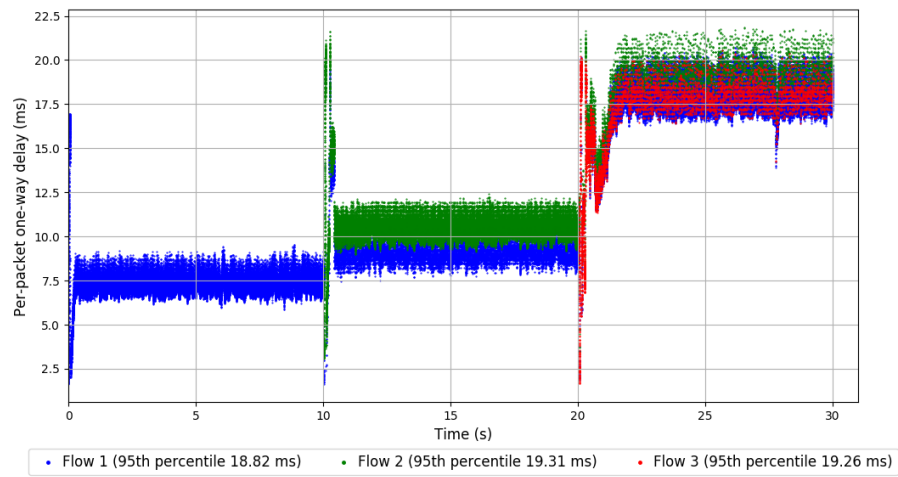
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 63.05 Mbit/s) — Flow 1 egress (mean 63.02 Mbit/s)
Flow 2 ingress (mean 42.94 Mbit/s) — Flow 2 egress (mean 42.92 Mbit/s)
Flow 3 ingress (mean 17.65 Mbit/s) — Flow 3 egress (mean 17.63 Mbit/s)

Flow 1 (95th percentile 17.01 ms) · Flow 2 (95th percentile 17.88 ms) · Flow 3 (95th percentile 23.09 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2019-02-11 18:38:20
End at: 2019-02-11 18:38:50
Local clock offset: -2.44 ms
Remote clock offset: 0.099 ms


# Below is generated by plot.py at 2019-02-11 19:19:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 28.727 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 72.44 Mbit/s
95th percentile per-packet one-way delay: 28.530 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 29.99 Mbit/s
95th percentile per-packet one-way delay: 27.829 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 32.621 ms
Loss rate: 0.25%
```
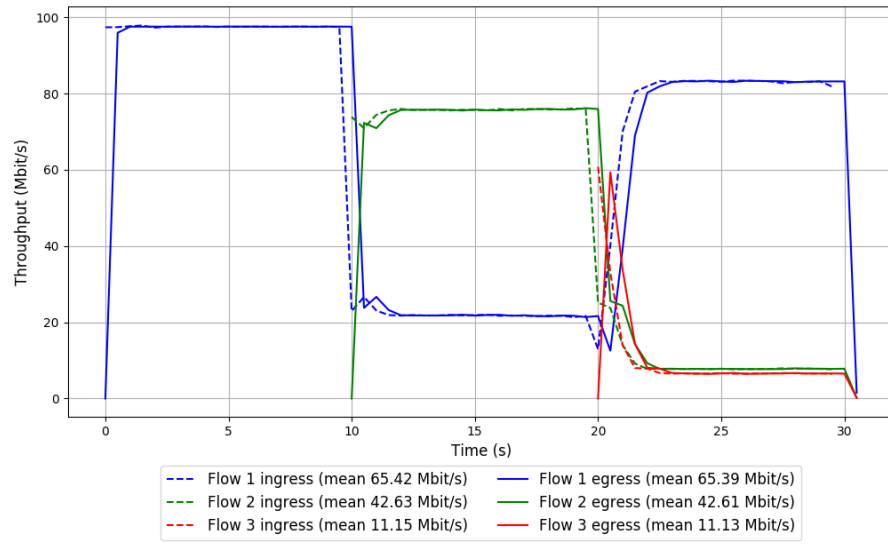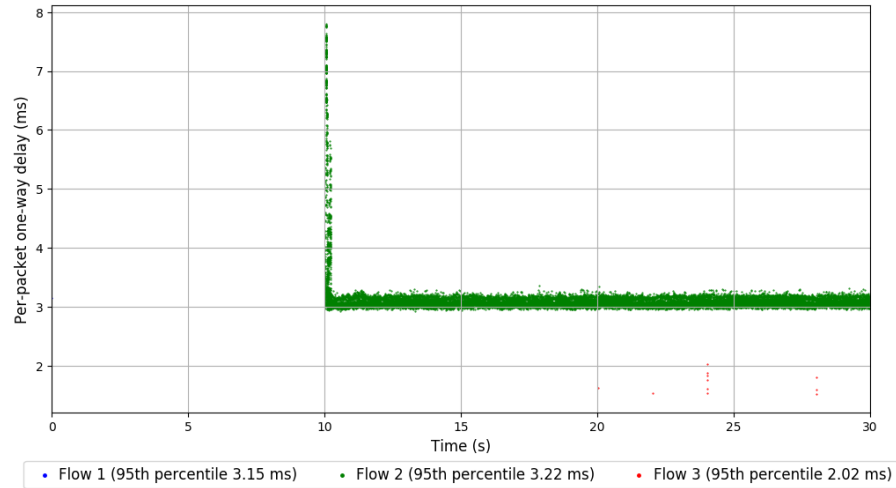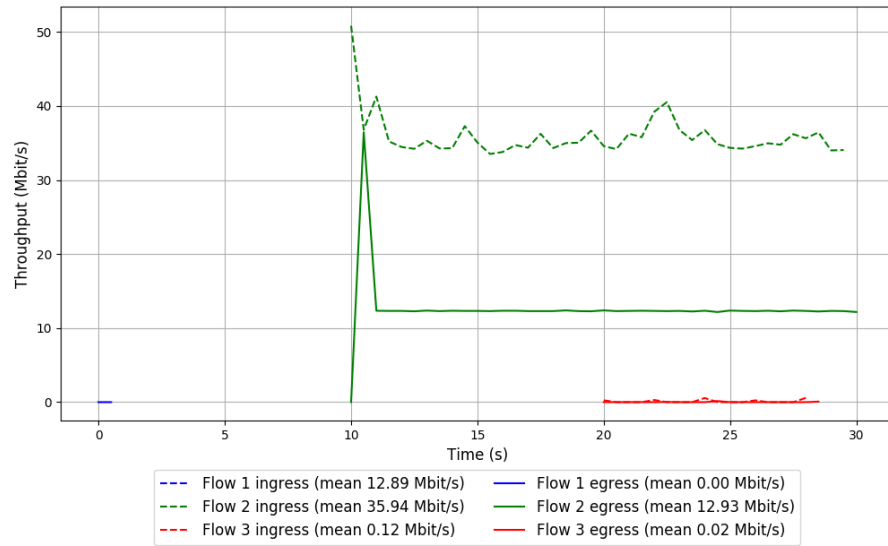
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 72.51 Mbit/s)   Flow 1 egress (mean 72.44 Mbit/s)
Flow 2 ingress (mean 30.02 Mbit/s)   Flow 2 egress (mean 29.99 Mbit/s)
Flow 3 ingress (mean 15.19 Mbit/s)   Flow 3 egress (mean 15.12 Mbit/s)

Flow 1 (95th percentile 28.53 ms)   Flow 2 (95th percentile 27.83 ms)   Flow 3 (95th percentile 32.62 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2019-02-11 19:02:16
End at: 2019-02-11 19:02:46
Local clock offset: -1.684 ms
Remote clock offset: 0.176 ms


# Below is generated by plot.py at 2019-02-11 19:19:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 18.946 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.39 Mbit/s
95th percentile per-packet one-way delay: 18.815 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.61 Mbit/s
95th percentile per-packet one-way delay: 19.313 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 19.260 ms
Loss rate: 0.00%
```
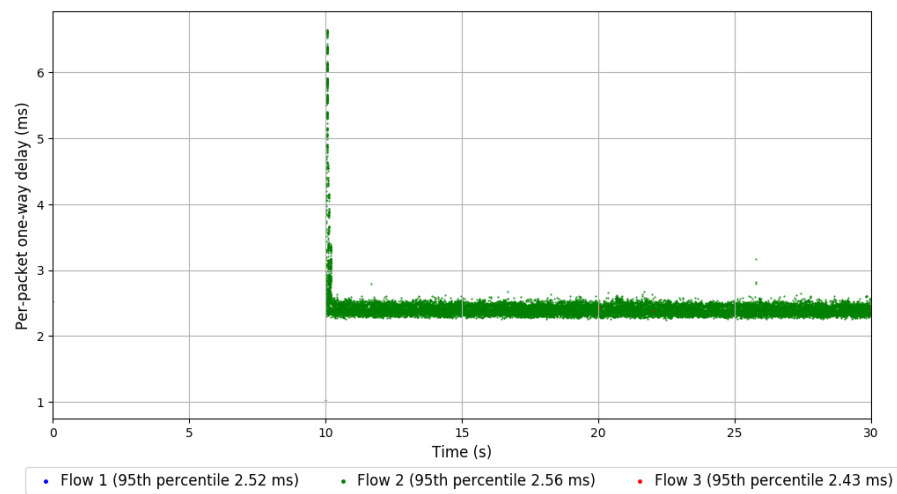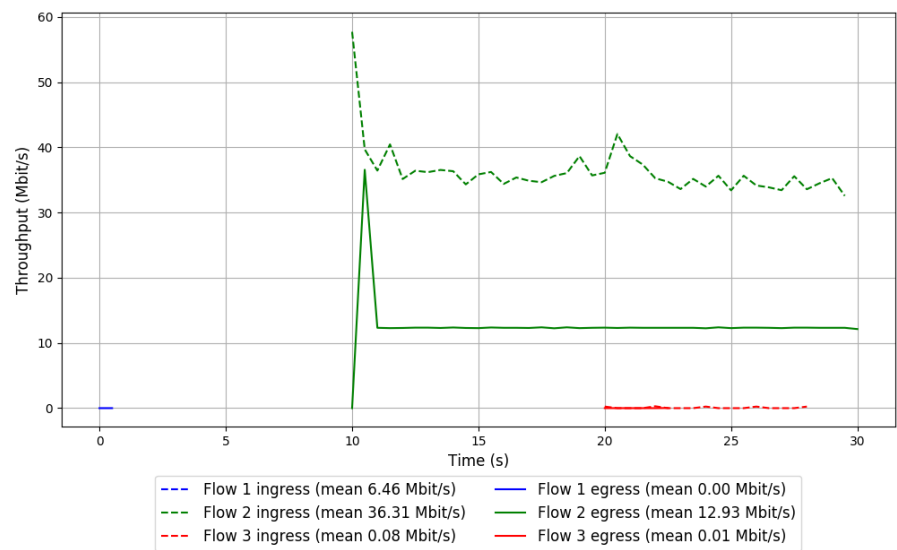
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 65.42 Mbit/s) — Flow 1 egress (mean 65.39 Mbit/s)
Flow 2 ingress (mean 42.63 Mbit/s) — Flow 2 egress (mean 42.61 Mbit/s)
Flow 3 ingress (mean 11.15 Mbit/s) — Flow 3 egress (mean 11.13 Mbit/s)

Flow 1 (95th percentile 18.82 ms)   Flow 2 (95th percentile 19.31 ms)   Flow 3 (95th percentile 19.26 ms)
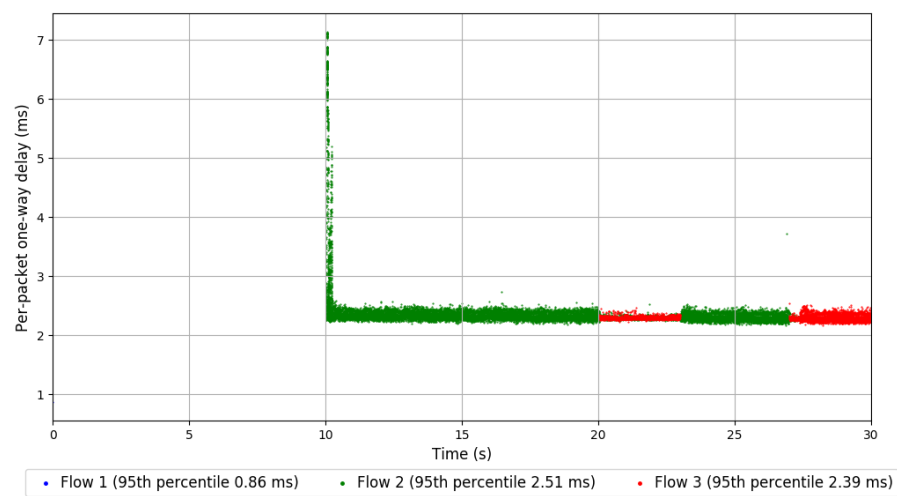
```
Run 1: Statistics of Copa

Start at: 2019-02-11 17:20:55
End at: 2019-02-11 17:21:25
Local clock offset: -1.214 ms
Remote clock offset: -0.515 ms


# Below is generated by plot.py at 2019-02-11 19:19:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 3.216 ms
Loss rate: 64.06%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.153 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 3.216 ms
Loss rate: 64.03%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 2.019 ms
Loss rate: 87.25%
```
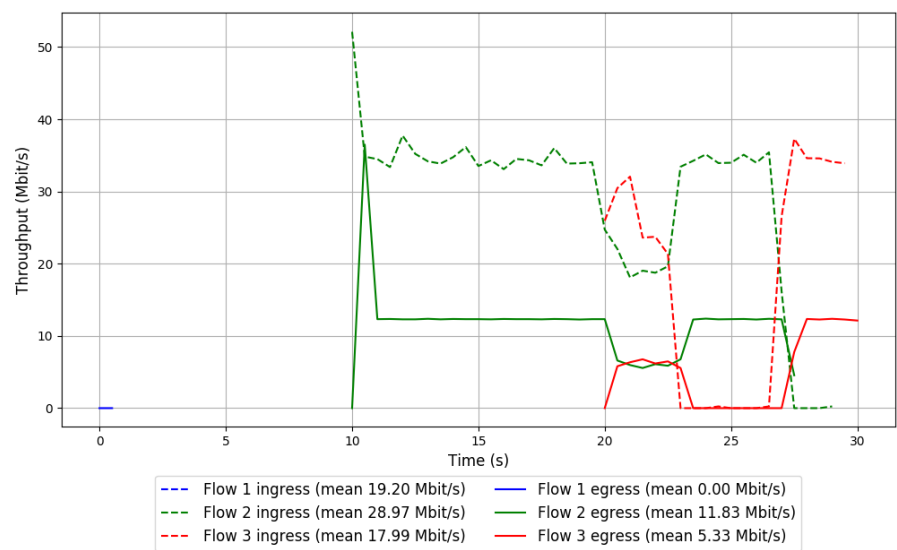
Run 1: Report of Copa — Data Link

Legend:
- Flow 1 ingress (mean 12.89 Mbit/s) --- (blue dashed) | Flow 1 egress (mean 0.00 Mbit/s) (blue solid)
- Flow 2 ingress (mean 35.94 Mbit/s) --- (green dashed) | Flow 2 egress (mean 12.93 Mbit/s) (green solid)
- Flow 3 ingress (mean 0.12 Mbit/s) --- (red dashed) | Flow 3 egress (mean 0.02 Mbit/s) (red solid)

Legend:
- Flow 1 (95th percentile 3.15 ms)
- Flow 2 (95th percentile 3.22 ms)
- Flow 3 (95th percentile 2.02 ms)

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```
Run 2: Statistics of Copa

Start at: 2019-02-11 17:44:51
End at: 2019-02-11 17:45:21
Local clock offset: -0.799 ms
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2019-02-11 19:19:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.559 ms
Loss rate: 64.41%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.523 ms
Loss rate: 97.24%
-- Flow 2:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 2.559 ms
Loss rate: 64.38%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 2.432 ms
Loss rate: 97.92%
```
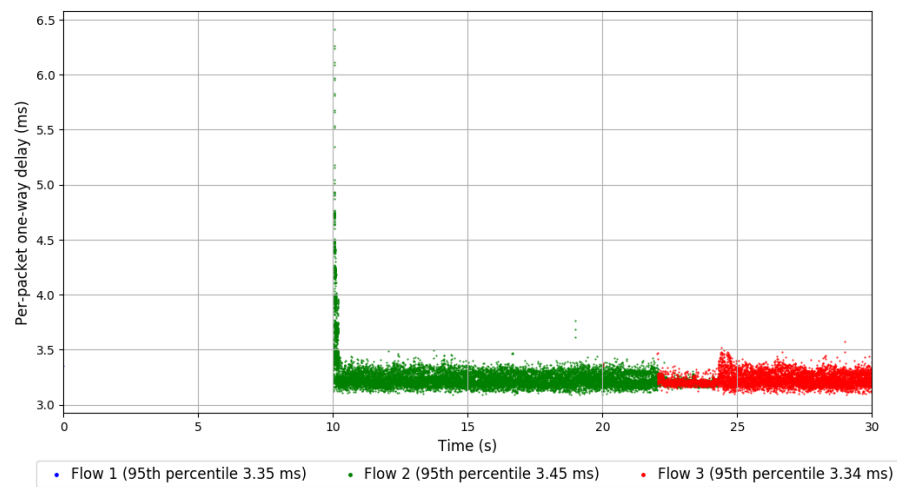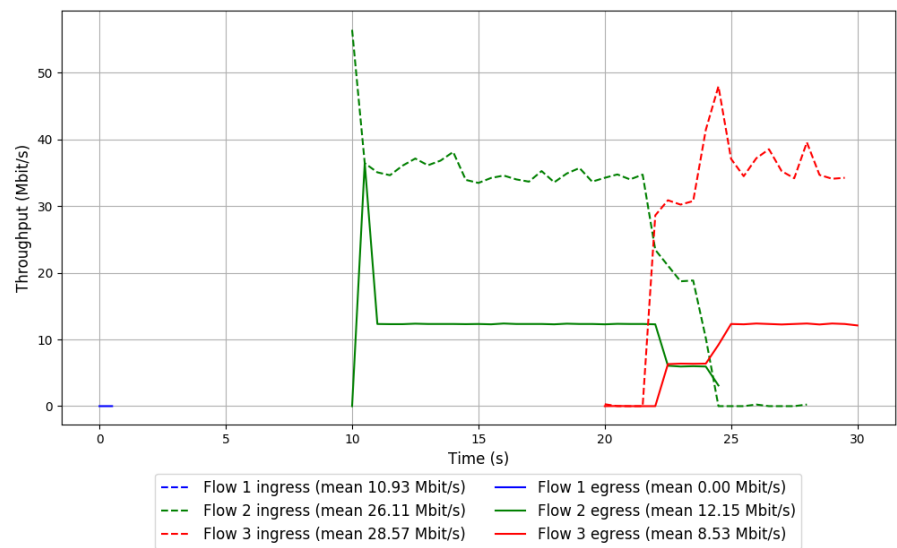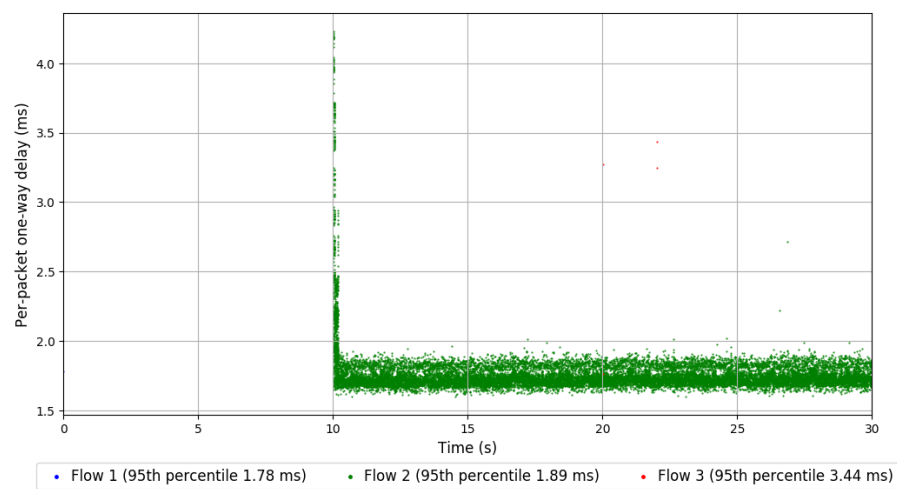
Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 6.46 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 36.31 Mbit/s) --- Flow 2 egress (mean 12.93 Mbit/s)
Flow 3 ingress (mean 0.08 Mbit/s) --- Flow 3 egress (mean 0.01 Mbit/s)

Flow 1 (95th percentile 2.52 ms)   Flow 2 (95th percentile 2.56 ms)   Flow 3 (95th percentile 2.43 ms)

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```
Run 3: Statistics of Copa

Start at: 2019-02-11 18:08:46
End at: 2019-02-11 18:09:16
Local clock offset: -1.702 ms
Remote clock offset: -0.054 ms


# Below is generated by plot.py at 2019-02-11 19:19:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.463 ms
Loss rate: 65.09%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 0.862 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 11.83 Mbit/s
95th percentile per-packet one-way delay: 2.511 ms
Loss rate: 63.40%
-- Flow 3:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 2.387 ms
Loss rate: 70.36%
```
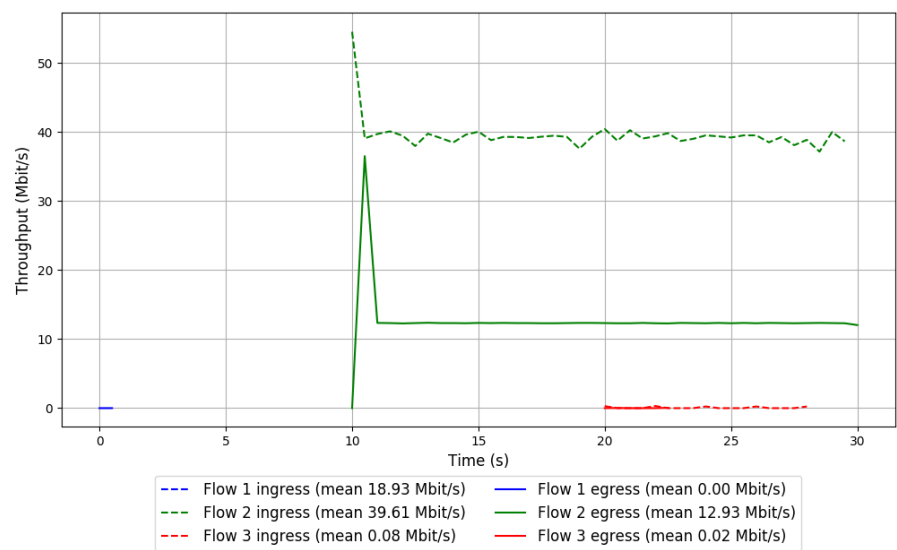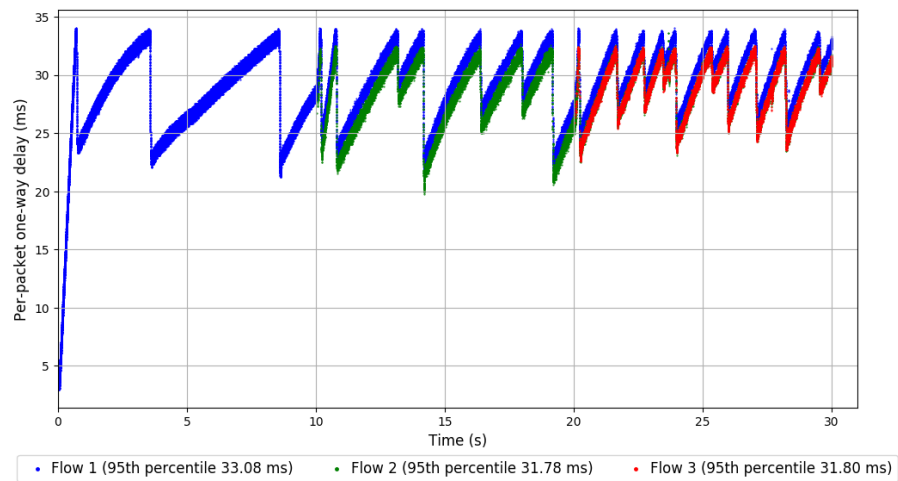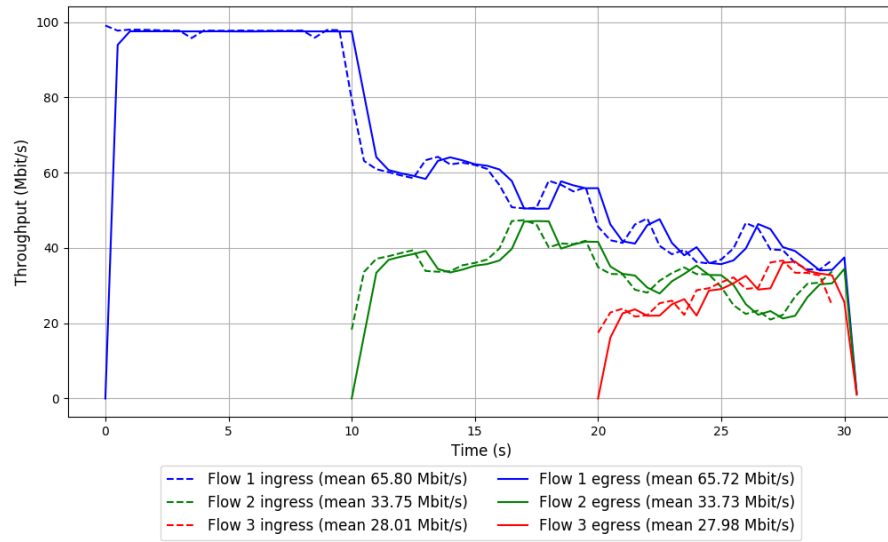
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 19.20 Mbit/s) --- Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 28.97 Mbit/s) --- Flow 2 egress (mean 11.83 Mbit/s)
Flow 3 ingress (mean 17.99 Mbit/s) --- Flow 3 egress (mean 5.33 Mbit/s)

Flow 1 (95th percentile 0.86 ms)   Flow 2 (95th percentile 2.51 ms)   Flow 3 (95th percentile 2.39 ms)

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```
Run 4: Statistics of Copa

Start at: 2019-02-11 18:32:42
End at: 2019-02-11 18:33:12
Local clock offset: -3.931 ms
Remote clock offset: 0.132 ms


# Below is generated by plot.py at 2019-02-11 19:19:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 3.387 ms
Loss rate: 66.08%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.349 ms
Loss rate: 98.33%
-- Flow 2:
Average throughput: 12.15 Mbit/s
95th percentile per-packet one-way delay: 3.450 ms
Loss rate: 63.65%
-- Flow 3:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 3.340 ms
Loss rate: 70.15%
```
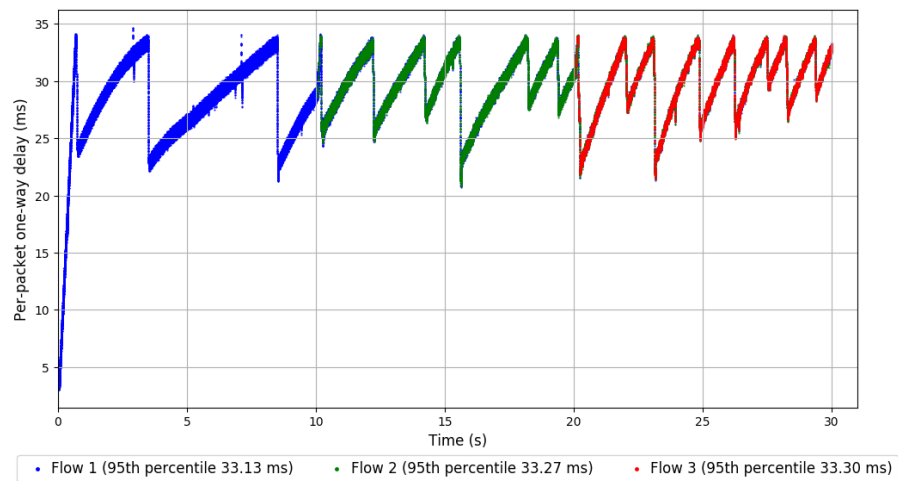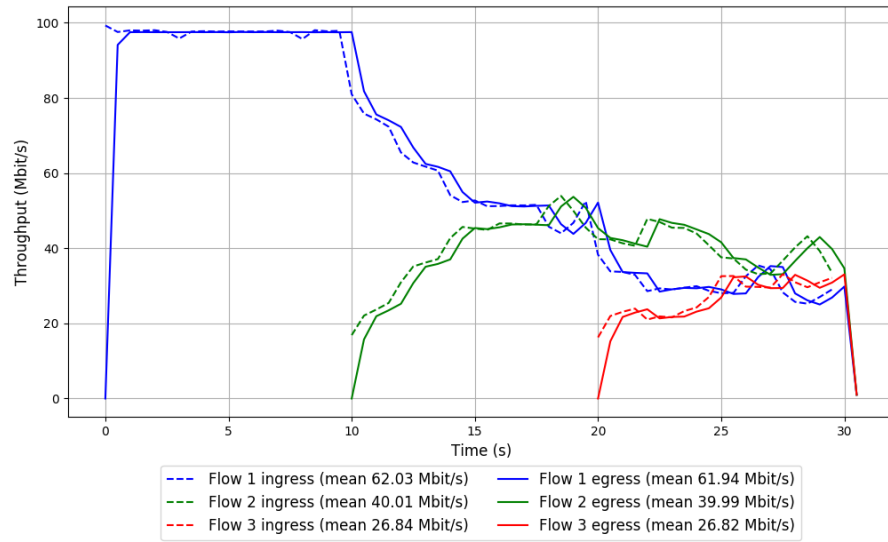
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2019-02-11 18:56:37
End at: 2019-02-11 18:57:07
Local clock offset: -1.939 ms
Remote clock offset: 0.132 ms


# Below is generated by plot.py at 2019-02-11 19:19:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 1.888 ms
Loss rate: 67.37%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.781 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 1.888 ms
Loss rate: 67.35%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 3.437 ms
Loss rate: 94.40%
```

Run 5: Report of Copa — Data Link

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```
Run 1: Statistics of TCP Cubic

Start at: 2019-02-11 17:40:18
End at: 2019-02-11 17:40:48
Local clock offset: -1.347 ms
Remote clock offset: -0.404 ms


# Below is generated by plot.py at 2019-02-11 19:19:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.978 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 65.72 Mbit/s
95th percentile per-packet one-way delay: 33.080 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 33.73 Mbit/s
95th percentile per-packet one-way delay: 31.776 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 27.98 Mbit/s
95th percentile per-packet one-way delay: 31.801 ms
Loss rate: 0.07%
```
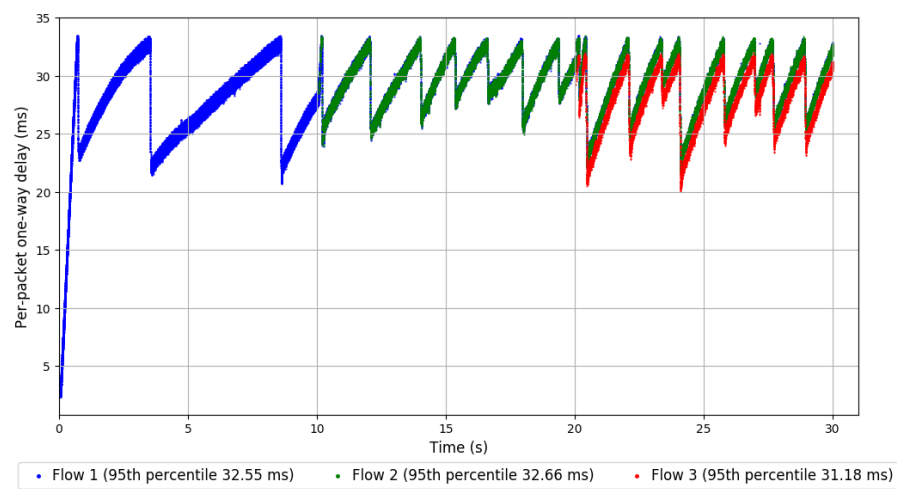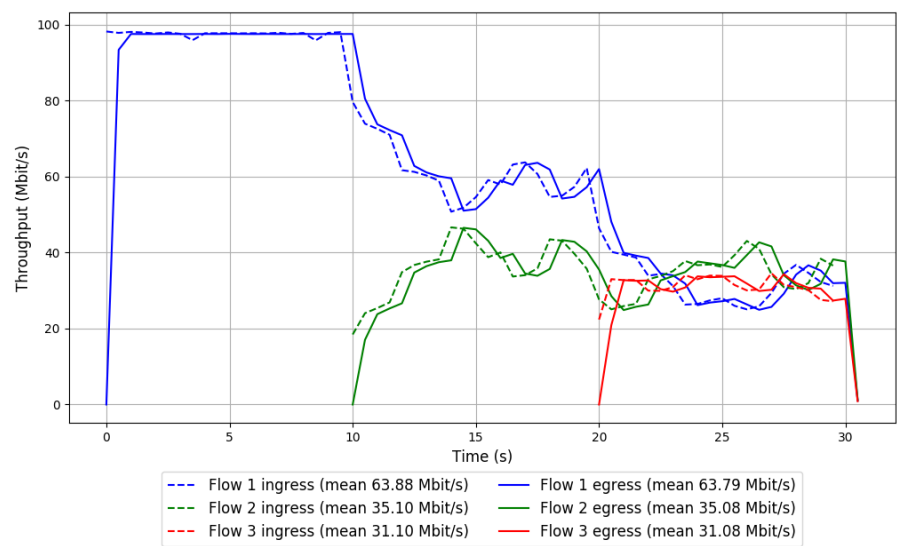
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2019-02-11 18:04:14
End at: 2019-02-11 18:04:44
Local clock offset: -1.532 ms
Remote clock offset: -0.116 ms


# Below is generated by plot.py at 2019-02-11 19:19:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 33.230 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 61.94 Mbit/s
95th percentile per-packet one-way delay: 33.127 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 33.267 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 26.82 Mbit/s
95th percentile per-packet one-way delay: 33.295 ms
Loss rate: 0.02%
```
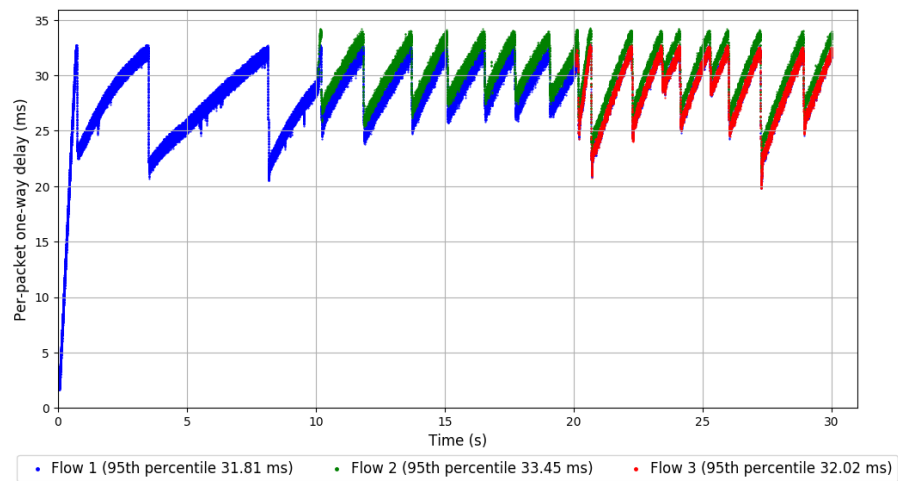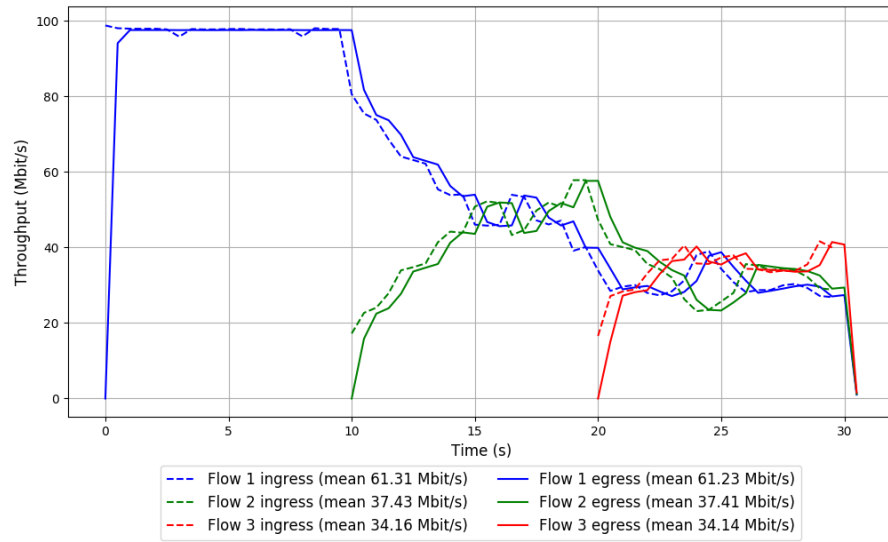
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2019-02-11 18:28:10
End at: 2019-02-11 18:28:40
Local clock offset: -2.996 ms
Remote clock offset: 0.128 ms


# Below is generated by plot.py at 2019-02-11 19:19:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.492 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 63.79 Mbit/s
95th percentile per-packet one-way delay: 32.551 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: 32.655 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 31.180 ms
Loss rate: 0.03%
```
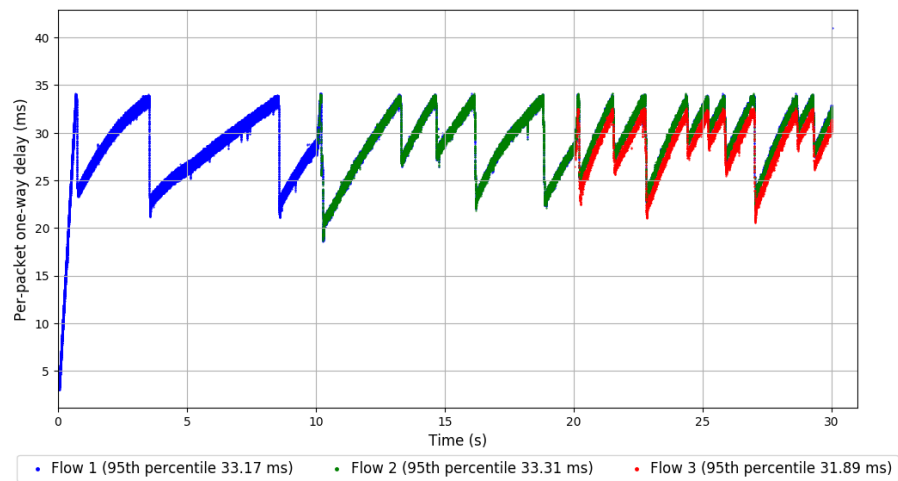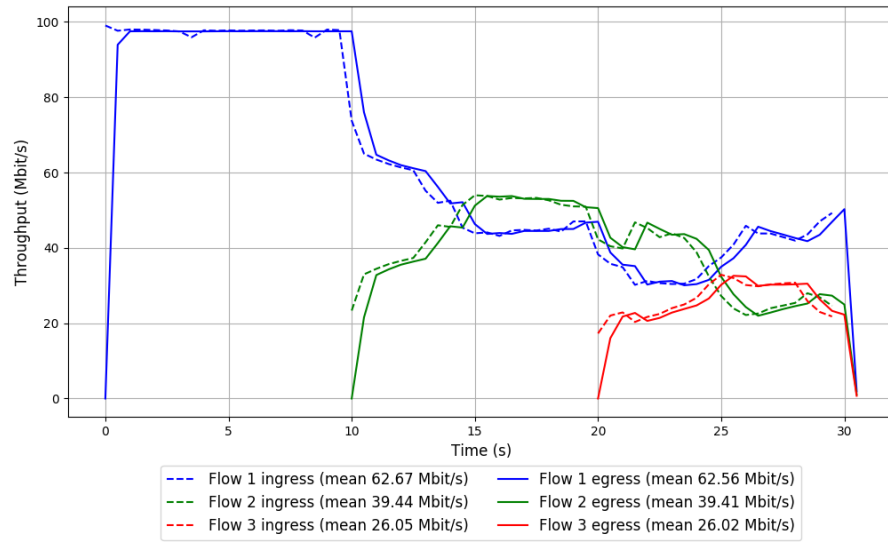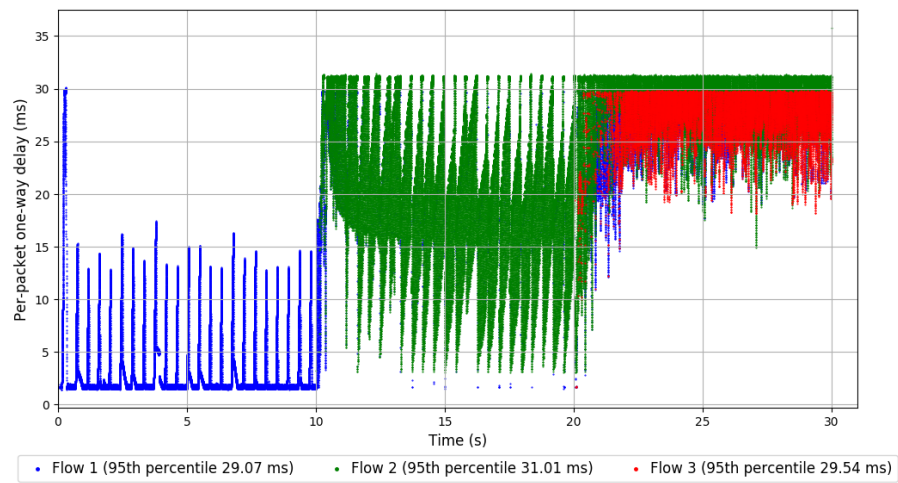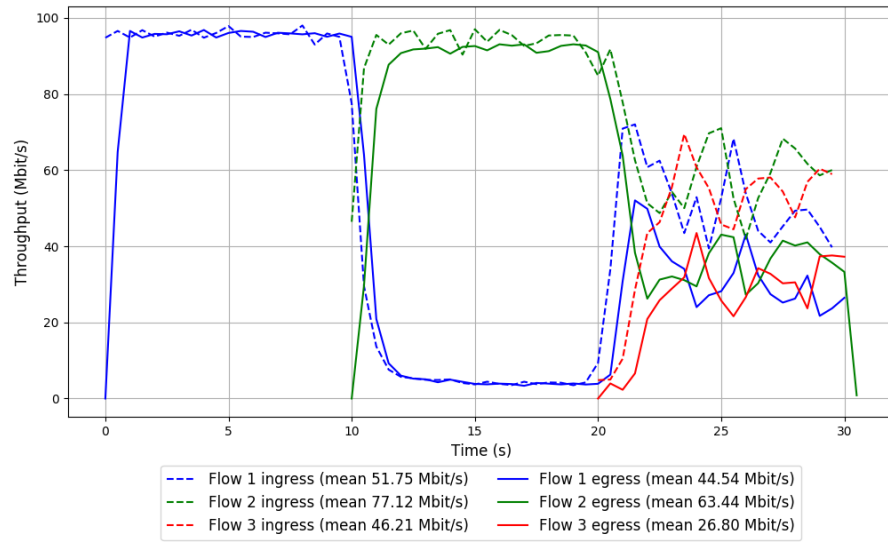
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 63.88 Mbit/s) --- Flow 1 egress (mean 63.79 Mbit/s)
Flow 2 ingress (mean 35.10 Mbit/s) --- Flow 2 egress (mean 35.08 Mbit/s)
Flow 3 ingress (mean 31.10 Mbit/s) --- Flow 3 egress (mean 31.08 Mbit/s)

Flow 1 (95th percentile 32.55 ms) • Flow 2 (95th percentile 32.66 ms) • Flow 3 (95th percentile 31.18 ms)
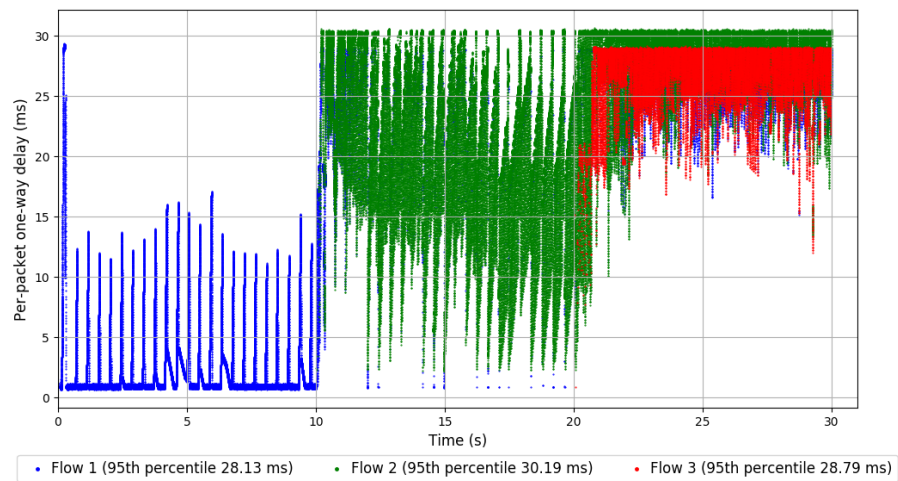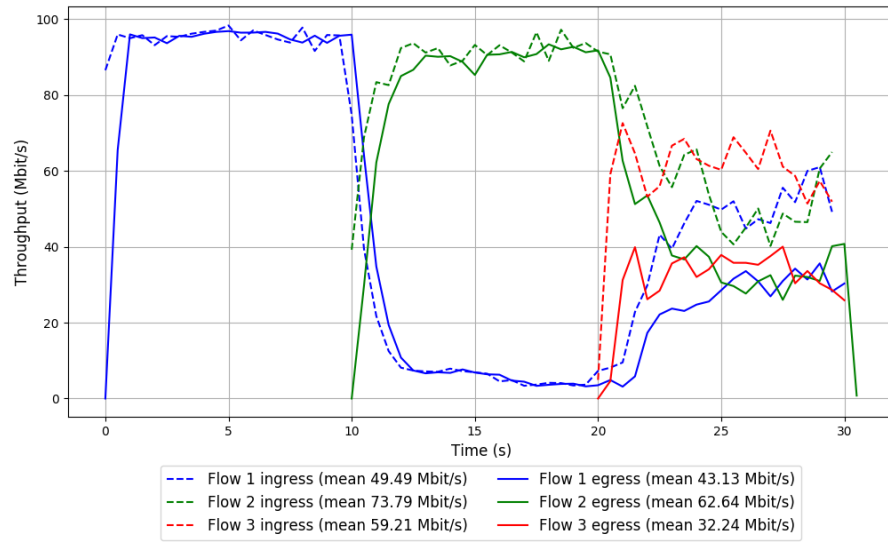
```
Run 4: Statistics of TCP Cubic

Start at: 2019-02-11 18:52:04
End at: 2019-02-11 18:52:34
Local clock offset: -2.03 ms
Remote clock offset: 0.206 ms


# Below is generated by plot.py at 2019-02-11 19:20:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.510 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 31.812 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 33.453 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 34.14 Mbit/s
95th percentile per-packet one-way delay: 32.022 ms
Loss rate: 0.03%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 61.31 Mbit/s)   Flow 1 egress (mean 61.23 Mbit/s)
Flow 2 ingress (mean 37.43 Mbit/s)   Flow 2 egress (mean 37.41 Mbit/s)
Flow 3 ingress (mean 34.16 Mbit/s)   Flow 3 egress (mean 34.14 Mbit/s)

Flow 1 (95th percentile 31.81 ms)   Flow 2 (95th percentile 33.45 ms)   Flow 3 (95th percentile 32.02 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2019-02-11 19:16:02
End at: 2019-02-11 19:16:32
Local clock offset: -2.021 ms
Remote clock offset: 0.134 ms


# Below is generated by plot.py at 2019-02-11 19:20:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 33.155 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.56 Mbit/s
95th percentile per-packet one-way delay: 33.167 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 39.41 Mbit/s
95th percentile per-packet one-way delay: 33.311 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 26.02 Mbit/s
95th percentile per-packet one-way delay: 31.895 ms
Loss rate: 0.06%
```
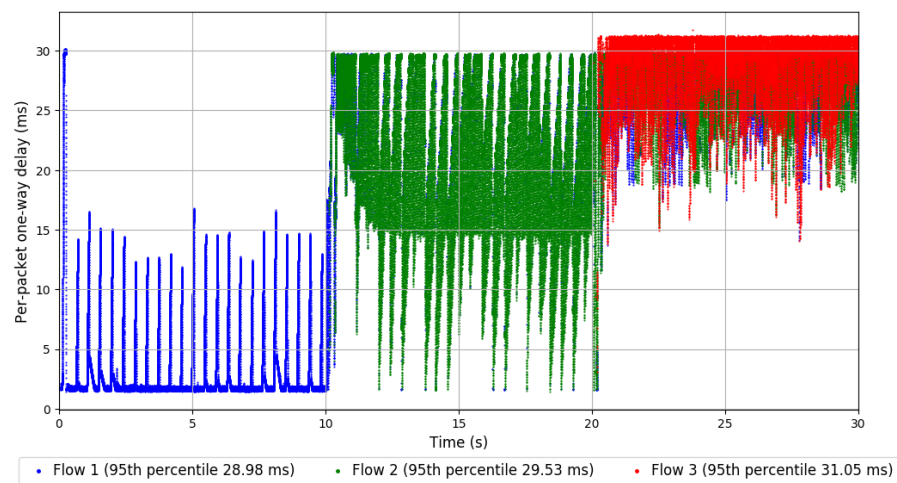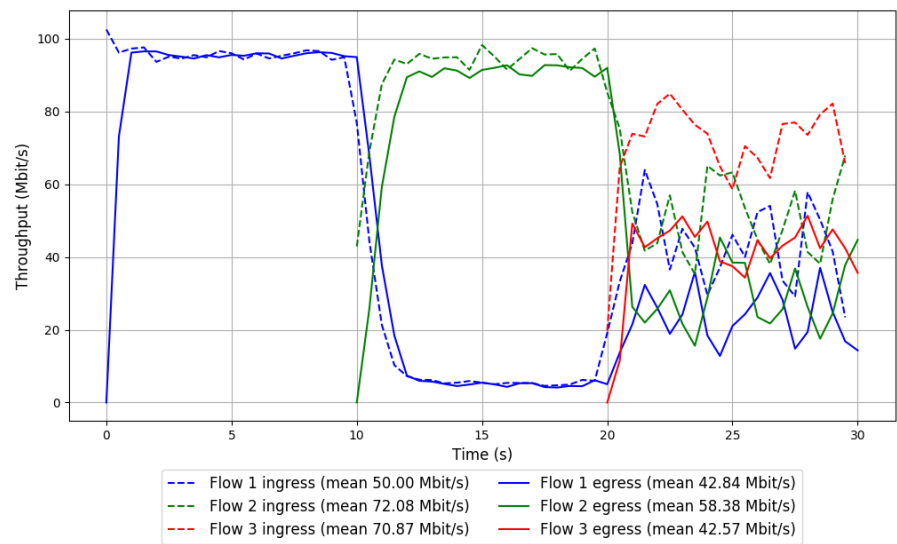
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 62.67 Mbit/s)   Flow 1 egress (mean 62.56 Mbit/s)
Flow 2 ingress (mean 39.44 Mbit/s)   Flow 2 egress (mean 39.41 Mbit/s)
Flow 3 ingress (mean 26.05 Mbit/s)   Flow 3 egress (mean 26.02 Mbit/s)

Flow 1 (95th percentile 33.17 ms)   Flow 2 (95th percentile 33.31 ms)   Flow 3 (95th percentile 31.89 ms)

```
Run 1: Statistics of FillP

Start at: 2019-02-11 17:30:01
End at: 2019-02-11 17:30:31
Local clock offset: -0.886 ms
Remote clock offset: -0.387 ms


# Below is generated by plot.py at 2019-02-11 19:20:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 30.807 ms
Loss rate: 19.13%
-- Flow 1:
Average throughput: 44.54 Mbit/s
95th percentile per-packet one-way delay: 29.066 ms
Loss rate: 13.88%
-- Flow 2:
Average throughput: 63.44 Mbit/s
95th percentile per-packet one-way delay: 31.006 ms
Loss rate: 17.61%
-- Flow 3:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 29.540 ms
Loss rate: 41.99%
```
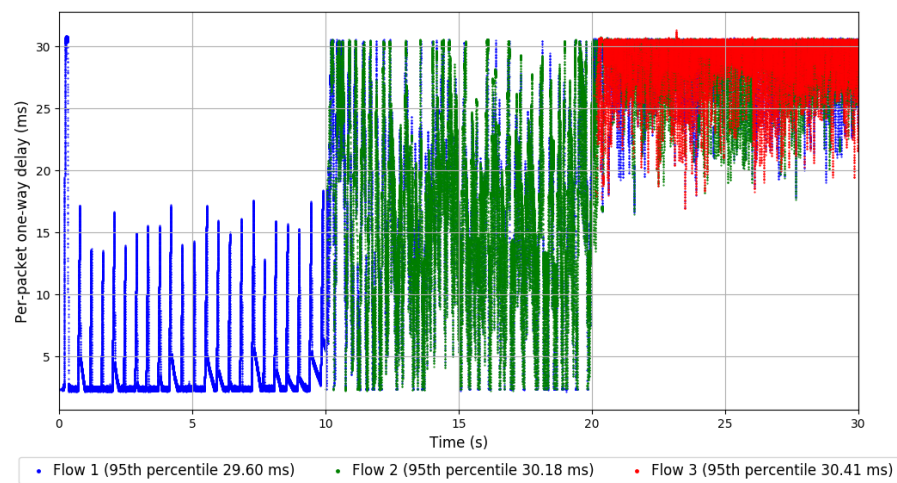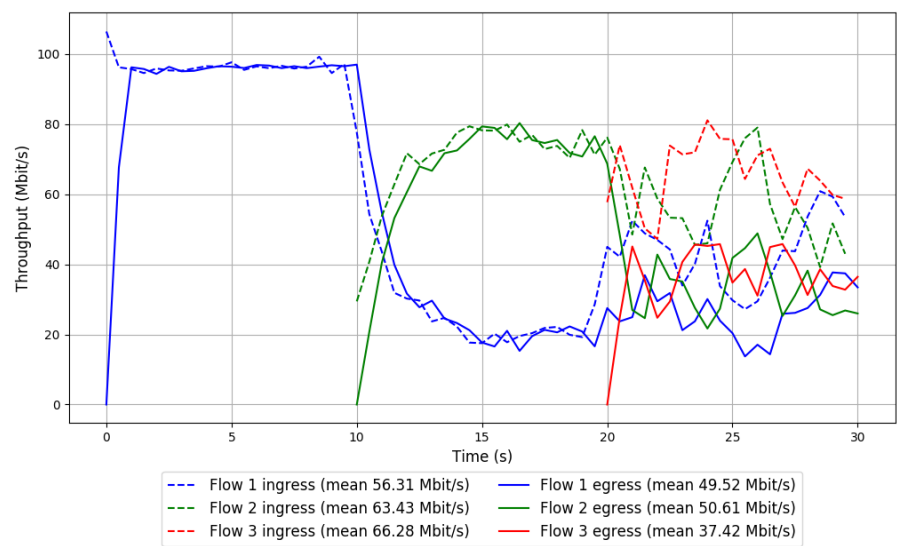
Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 51.75 Mbit/s) ----- Flow 1 egress (mean 44.54 Mbit/s) ——
Flow 2 ingress (mean 77.12 Mbit/s) ----- Flow 2 egress (mean 63.44 Mbit/s) ——
Flow 3 ingress (mean 46.21 Mbit/s) ----- Flow 3 egress (mean 26.80 Mbit/s) ——

Flow 1 (95th percentile 29.07 ms)   Flow 2 (95th percentile 31.01 ms)   Flow 3 (95th percentile 29.54 ms)

```
Run 2: Statistics of FillP

Start at: 2019-02-11 17:53:57
End at: 2019-02-11 17:54:27
Local clock offset: -0.873 ms
Remote clock offset: -0.196 ms


# Below is generated by plot.py at 2019-02-11 19:20:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 29.782 ms
Loss rate: 19.13%
-- Flow 1:
Average throughput: 43.13 Mbit/s
95th percentile per-packet one-way delay: 28.134 ms
Loss rate: 12.78%
-- Flow 2:
Average throughput: 62.64 Mbit/s
95th percentile per-packet one-way delay: 30.194 ms
Loss rate: 14.99%
-- Flow 3:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 28.792 ms
Loss rate: 45.52%
```
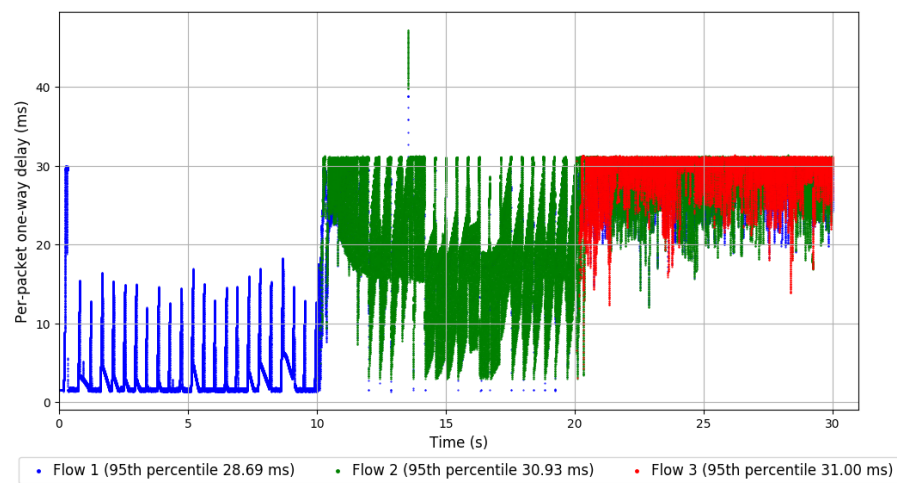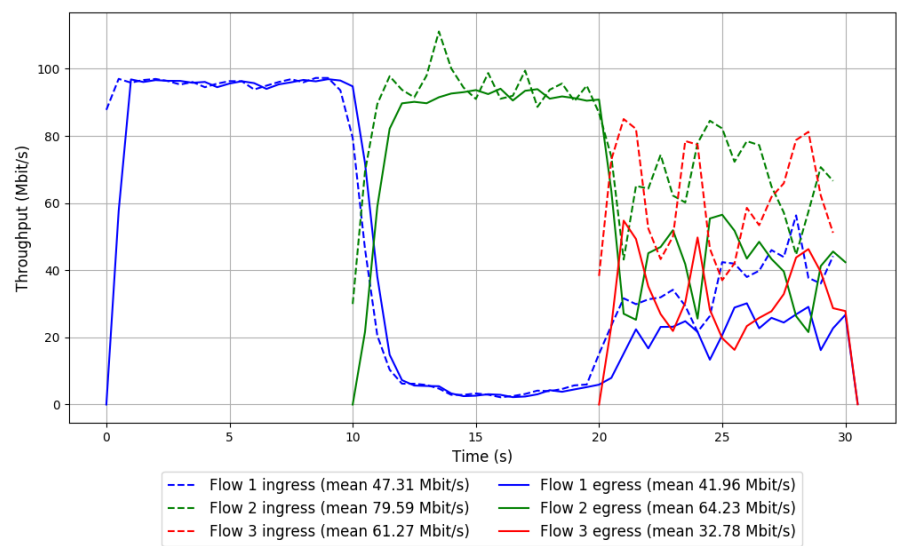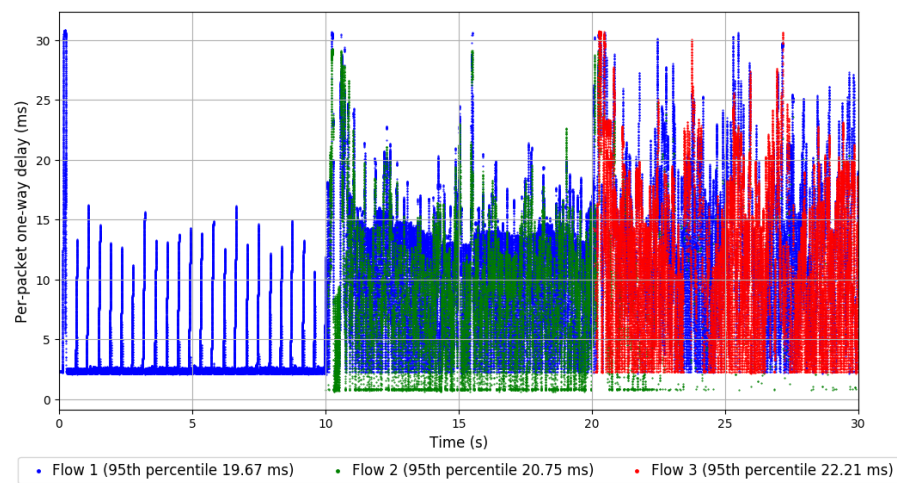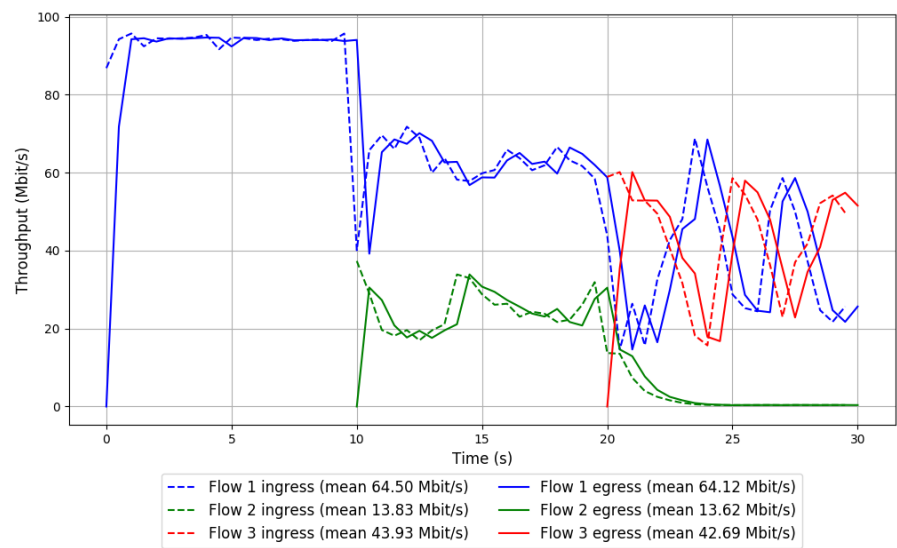
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2019-02-11 18:17:52
End at: 2019-02-11 18:18:22
Local clock offset: -3.41 ms
Remote clock offset: 0.04 ms


# Below is generated by plot.py at 2019-02-11 19:20:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 30.134 ms
Loss rate: 21.05%
-- Flow 1:
Average throughput: 42.84 Mbit/s
95th percentile per-packet one-way delay: 28.982 ms
Loss rate: 14.26%
-- Flow 2:
Average throughput: 58.38 Mbit/s
95th percentile per-packet one-way delay: 29.529 ms
Loss rate: 18.91%
-- Flow 3:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 31.047 ms
Loss rate: 39.92%
```
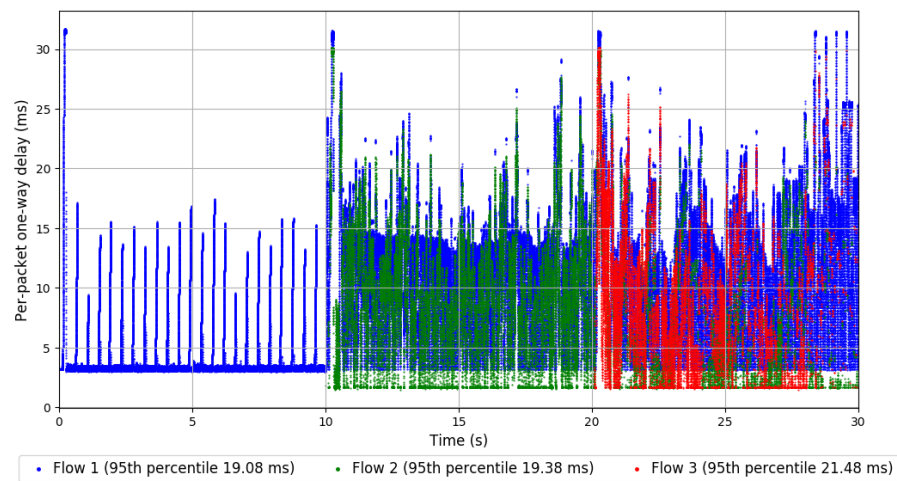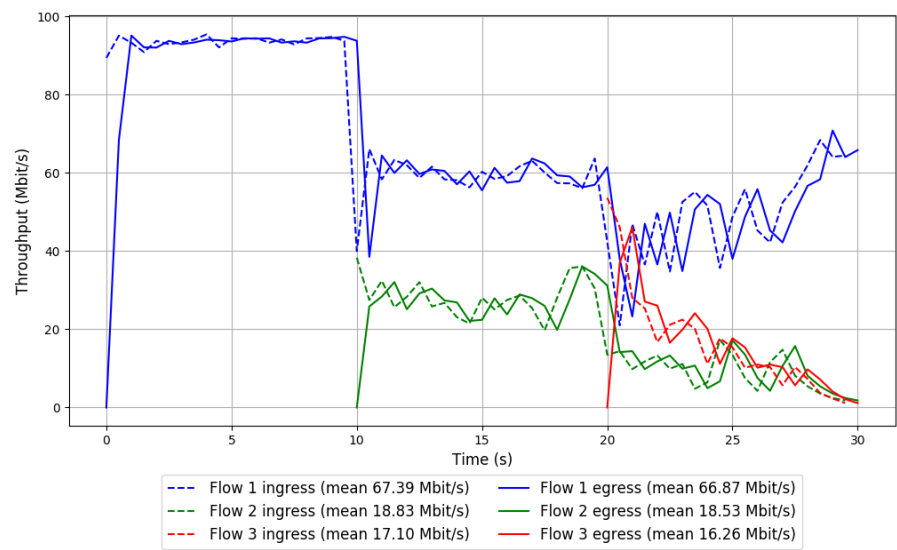
Run 3: Report of FillP — Data Link

```
Run 4: Statistics of FillP

Start at: 2019-02-11 18:41:48
End at: 2019-02-11 18:42:18
Local clock offset: -1.947 ms
Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2019-02-11 19:21:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 30.158 ms
Loss rate: 20.60%
-- Flow 1:
Average throughput: 49.52 Mbit/s
95th percentile per-packet one-way delay: 29.597 ms
Loss rate: 11.98%
-- Flow 2:
Average throughput: 50.61 Mbit/s
95th percentile per-packet one-way delay: 30.179 ms
Loss rate: 20.13%
-- Flow 3:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 30.406 ms
Loss rate: 43.53%
```

Run 4: Report of FillP — Data Link

- - - Flow 1 ingress (mean 56.31 Mbit/s)   — Flow 1 egress (mean 49.52 Mbit/s)
- - - Flow 2 ingress (mean 63.43 Mbit/s)   — Flow 2 egress (mean 50.61 Mbit/s)
- - - Flow 3 ingress (mean 66.28 Mbit/s)   — Flow 3 egress (mean 37.42 Mbit/s)

• Flow 1 (95th percentile 29.60 ms)   • Flow 2 (95th percentile 30.18 ms)   • Flow 3 (95th percentile 30.41 ms)

```
Run 5: Statistics of FillP

Start at: 2019-02-11 19:05:44
End at: 2019-02-11 19:06:14
Local clock offset: -1.729 ms
Remote clock offset: 0.161 ms


# Below is generated by plot.py at 2019-02-11 19:21:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 30.846 ms
Loss rate: 20.66%
-- Flow 1:
Average throughput: 41.96 Mbit/s
95th percentile per-packet one-way delay: 28.687 ms
Loss rate: 11.22%
-- Flow 2:
Average throughput: 64.23 Mbit/s
95th percentile per-packet one-way delay: 30.933 ms
Loss rate: 19.19%
-- Flow 3:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 31.001 ms
Loss rate: 46.50%
```
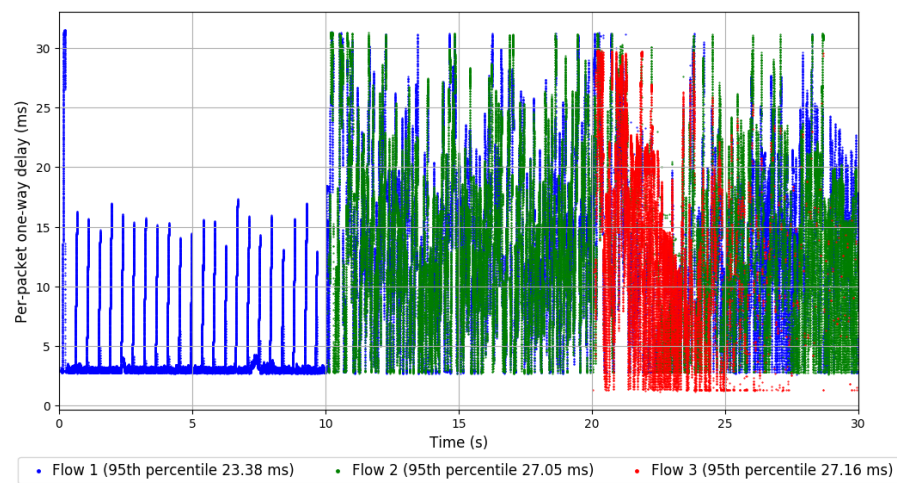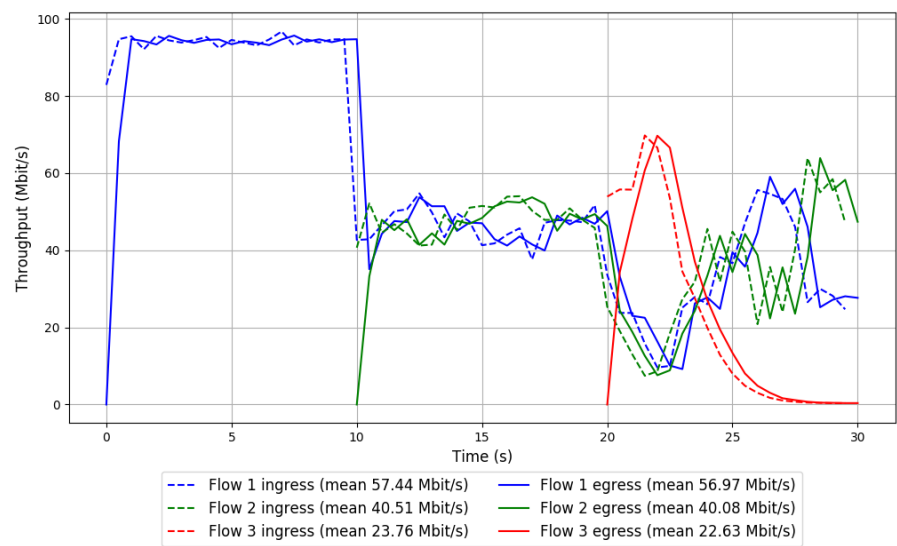
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 47.31 Mbit/s)   Flow 1 egress (mean 41.96 Mbit/s)
Flow 2 ingress (mean 79.59 Mbit/s)   Flow 2 egress (mean 64.23 Mbit/s)
Flow 3 ingress (mean 61.27 Mbit/s)   Flow 3 egress (mean 32.78 Mbit/s)

Flow 1 (95th percentile 28.69 ms)   Flow 2 (95th percentile 30.93 ms)   Flow 3 (95th percentile 31.00 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2019-02-11 17:17:32
End at: 2019-02-11 17:18:02
Local clock offset: -0.562 ms
Remote clock offset: -0.474 ms


# Below is generated by plot.py at 2019-02-11 19:21:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 20.383 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 64.12 Mbit/s
95th percentile per-packet one-way delay: 19.667 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 20.751 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 22.208 ms
Loss rate: 2.81%
```
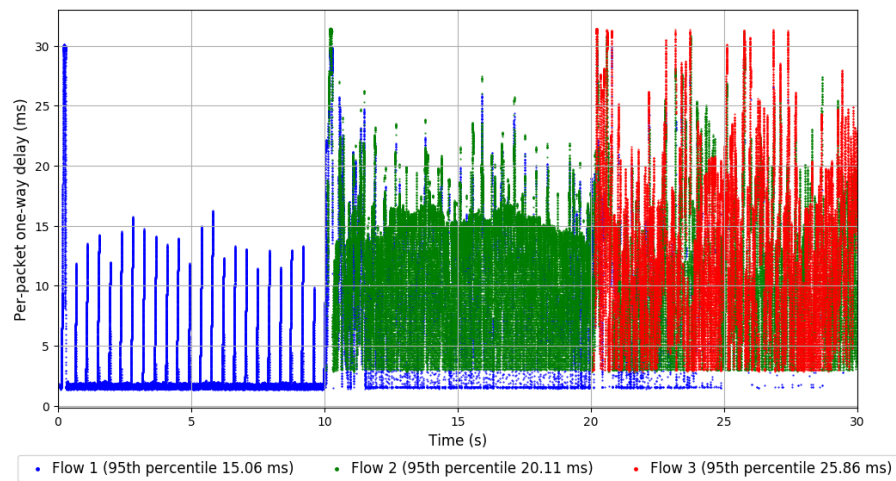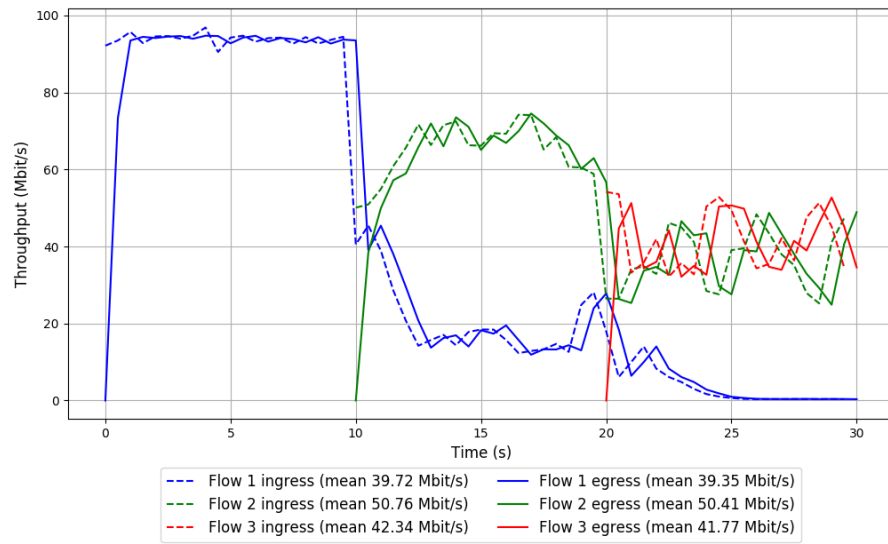
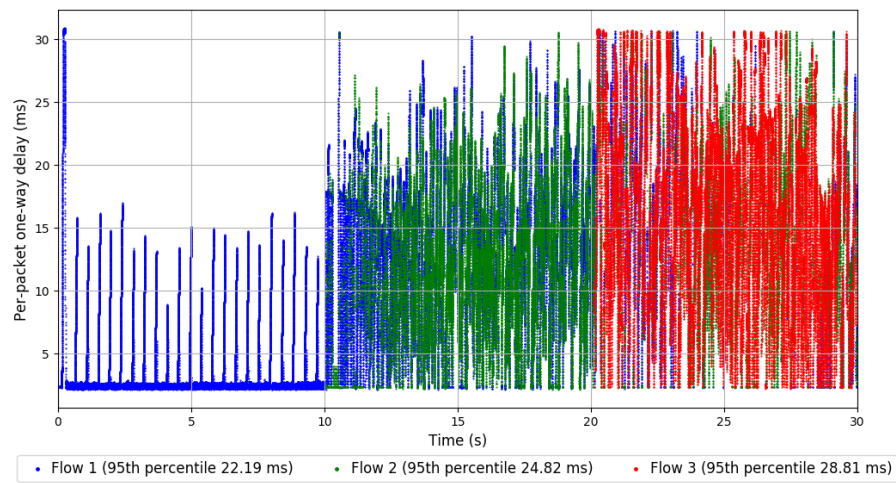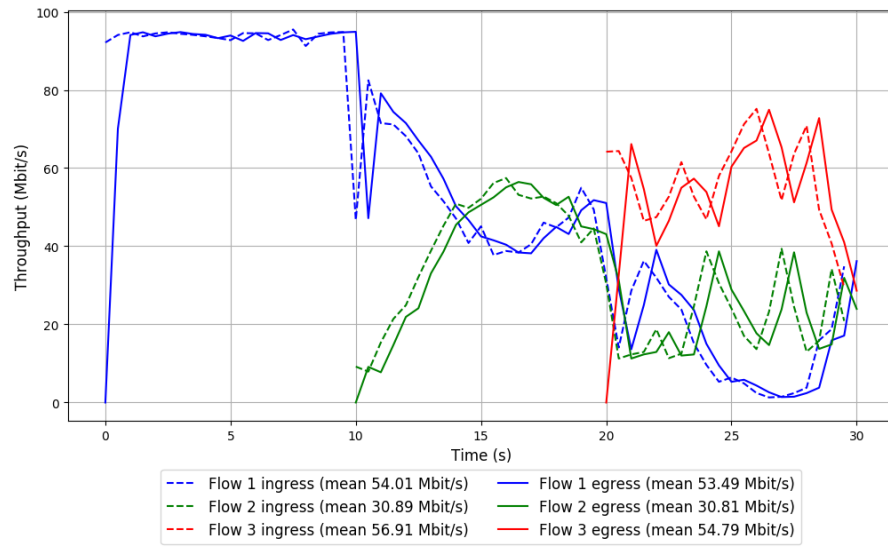Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 64.50 Mbit/s)   Flow 1 egress (mean 64.12 Mbit/s)
Flow 2 ingress (mean 13.83 Mbit/s)   Flow 2 egress (mean 13.62 Mbit/s)
Flow 3 ingress (mean 43.93 Mbit/s)   Flow 3 egress (mean 42.69 Mbit/s)

Flow 1 (95th percentile 19.67 ms)   Flow 2 (95th percentile 20.75 ms)   Flow 3 (95th percentile 22.21 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2019-02-11 17:41:28
End at: 2019-02-11 17:41:58
Local clock offset: -1.479 ms
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2019-02-11 19:21:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.58 Mbit/s
95th percentile per-packet one-way delay: 19.296 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 66.87 Mbit/s
95th percentile per-packet one-way delay: 19.084 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 18.53 Mbit/s
95th percentile per-packet one-way delay: 19.377 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 16.26 Mbit/s
95th percentile per-packet one-way delay: 21.484 ms
Loss rate: 5.05%
```
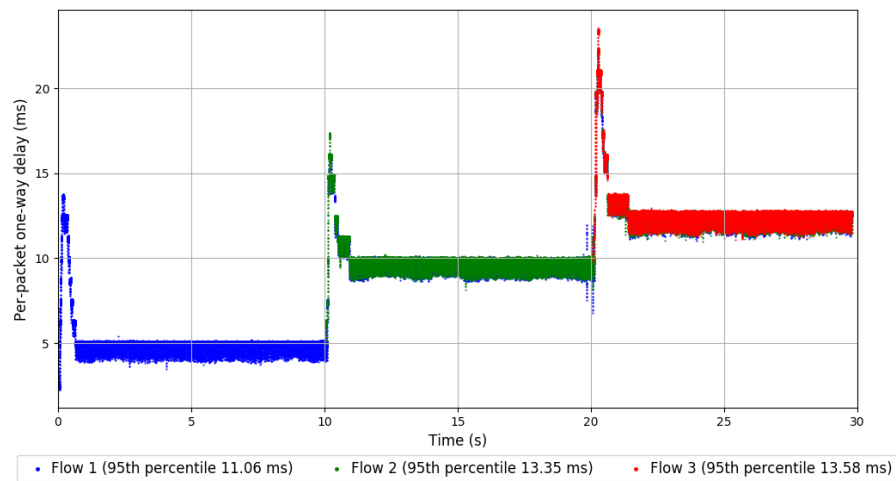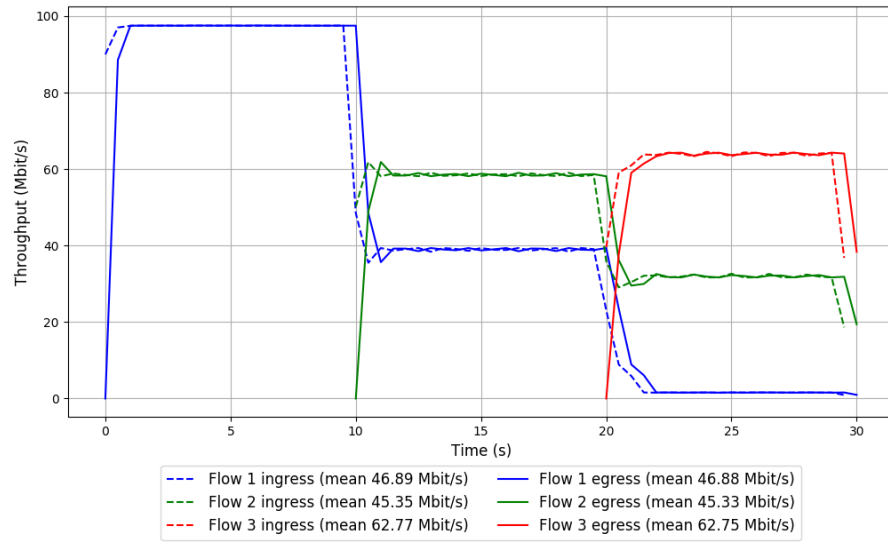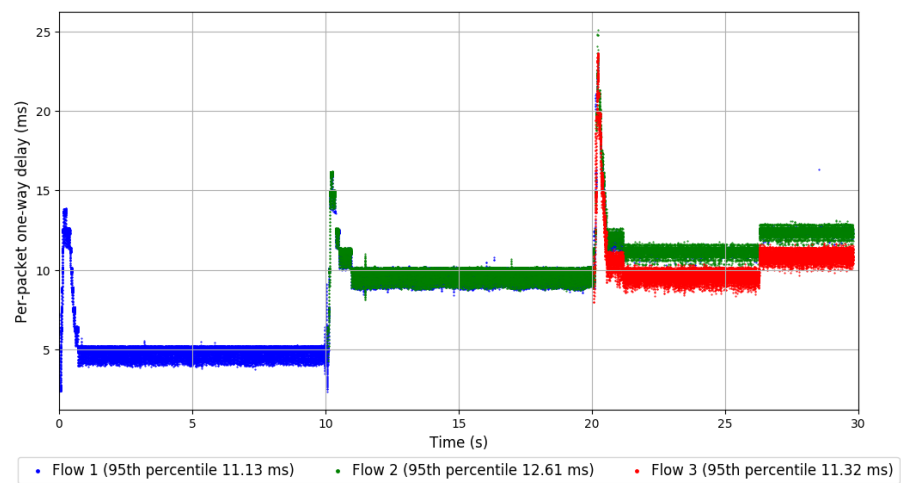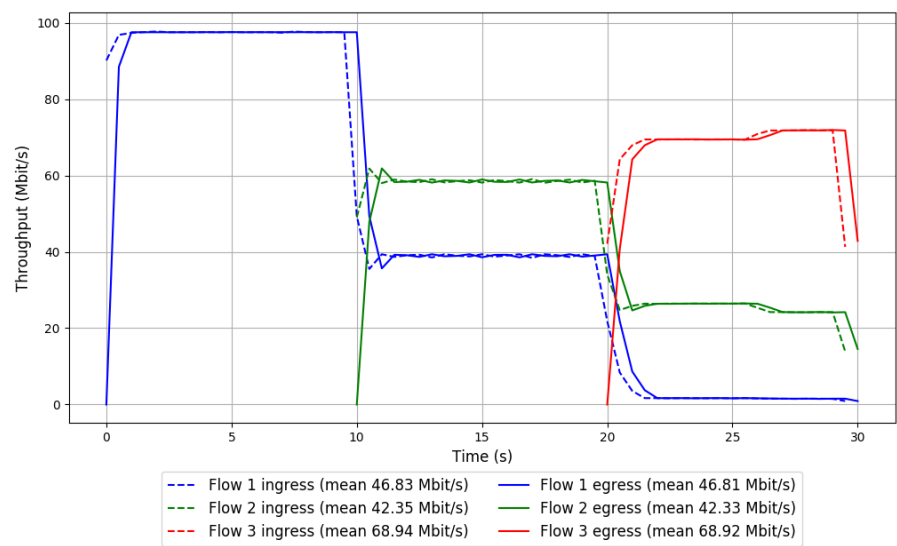
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2019-02-11 18:05:23
End at: 2019-02-11 18:05:53
Local clock offset: -1.731 ms
Remote clock offset: -0.12 ms


# Below is generated by plot.py at 2019-02-11 19:21:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 25.296 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: 23.381 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 27.051 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 27.161 ms
Loss rate: 4.82%
```

Run 3: Report of FillP-Sheep — Data Link

- - - - Flow 1 ingress (mean 57.44 Mbit/s) ——— Flow 1 egress (mean 56.97 Mbit/s)
- - - - Flow 2 ingress (mean 40.51 Mbit/s) ——— Flow 2 egress (mean 40.08 Mbit/s)
- - - - Flow 3 ingress (mean 23.76 Mbit/s) ——— Flow 3 egress (mean 22.63 Mbit/s)

• Flow 1 (95th percentile 23.38 ms)   • Flow 2 (95th percentile 27.05 ms)   • Flow 3 (95th percentile 27.16 ms)

50

```
Run 4: Statistics of FillP-Sheep

Start at: 2019-02-11 18:29:19
End at: 2019-02-11 18:29:49
Local clock offset: -3.782 ms
Remote clock offset: 0.065 ms


# Below is generated by plot.py at 2019-02-11 19:22:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.74 Mbit/s
95th percentile per-packet one-way delay: 20.407 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 15.059 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 50.41 Mbit/s
95th percentile per-packet one-way delay: 20.112 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 41.77 Mbit/s
95th percentile per-packet one-way delay: 25.857 ms
Loss rate: 1.22%
```
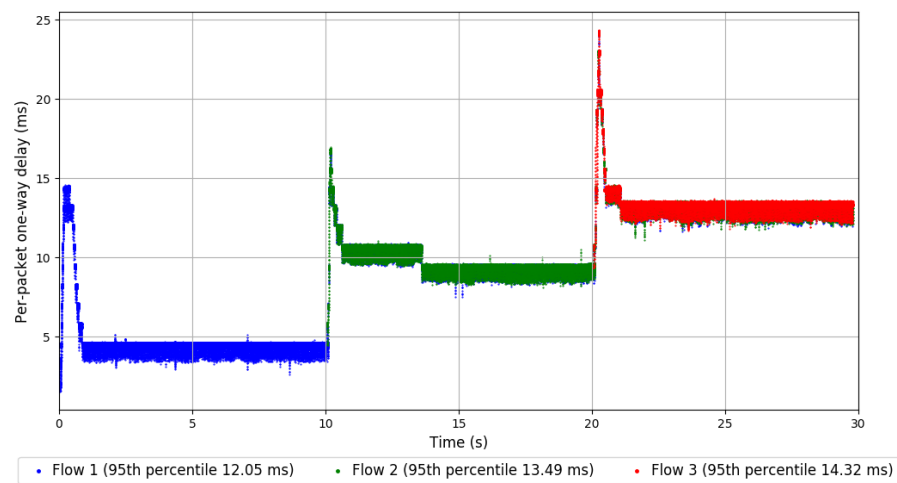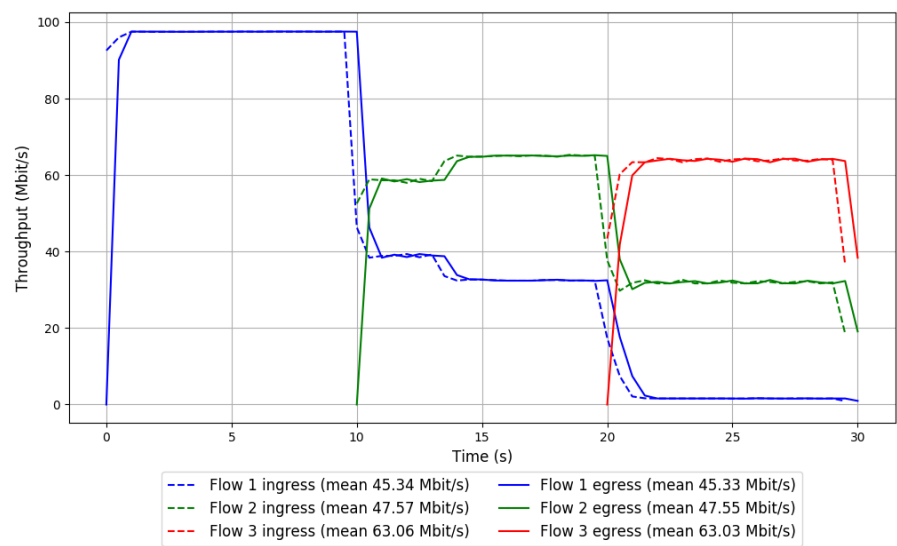
Run 4: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 39.72 Mbit/s)   Flow 1 egress (mean 39.35 Mbit/s)
Flow 2 ingress (mean 50.76 Mbit/s)   Flow 2 egress (mean 50.41 Mbit/s)
Flow 3 ingress (mean 42.34 Mbit/s)   Flow 3 egress (mean 41.77 Mbit/s)

Flow 1 (95th percentile 15.06 ms)   Flow 2 (95th percentile 20.11 ms)   Flow 3 (95th percentile 25.86 ms)

```
Run 5: Statistics of FillP-Sheep

Start at: 2019-02-11 18:53:14
End at: 2019-02-11 18:53:44
Local clock offset: -1.218 ms
Remote clock offset: 0.136 ms


# Below is generated by plot.py at 2019-02-11 19:22:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.16 Mbit/s
95th percentile per-packet one-way delay: 25.234 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 53.49 Mbit/s
95th percentile per-packet one-way delay: 22.193 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 30.81 Mbit/s
95th percentile per-packet one-way delay: 24.825 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 54.79 Mbit/s
95th percentile per-packet one-way delay: 28.813 ms
Loss rate: 3.84%
```
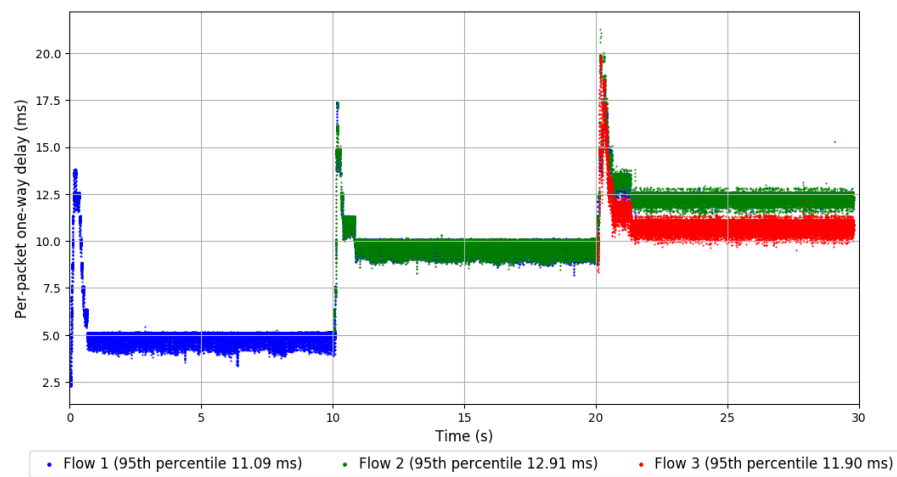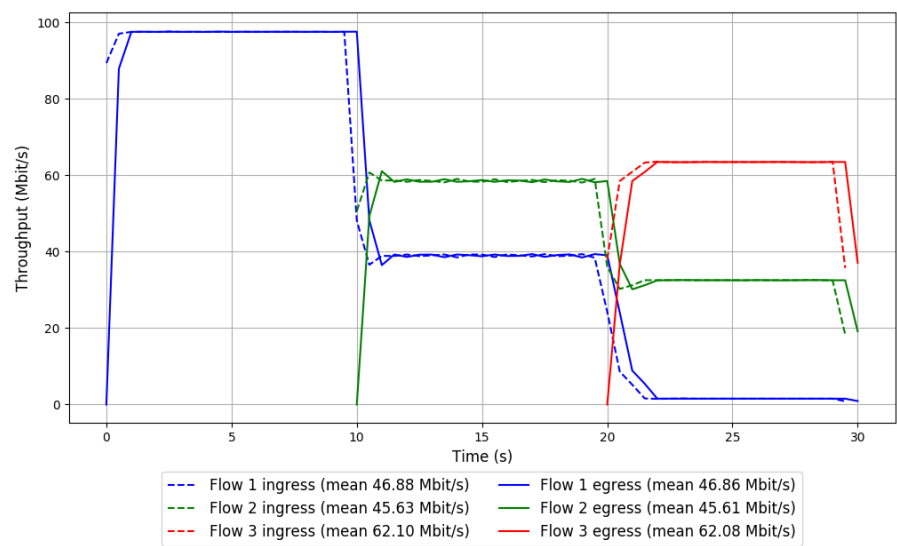
Run 5: Report of FillP-Sheep — Data Link

```
Run 1: Statistics of Indigo

Start at: 2019-02-11 17:37:57
End at: 2019-02-11 17:38:27
Local clock offset: -0.405 ms
Remote clock offset: -0.328 ms


# Below is generated by plot.py at 2019-02-11 19:22:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 12.792 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 11.060 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.33 Mbit/s
95th percentile per-packet one-way delay: 13.346 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.75 Mbit/s
95th percentile per-packet one-way delay: 13.580 ms
Loss rate: 0.00%
```
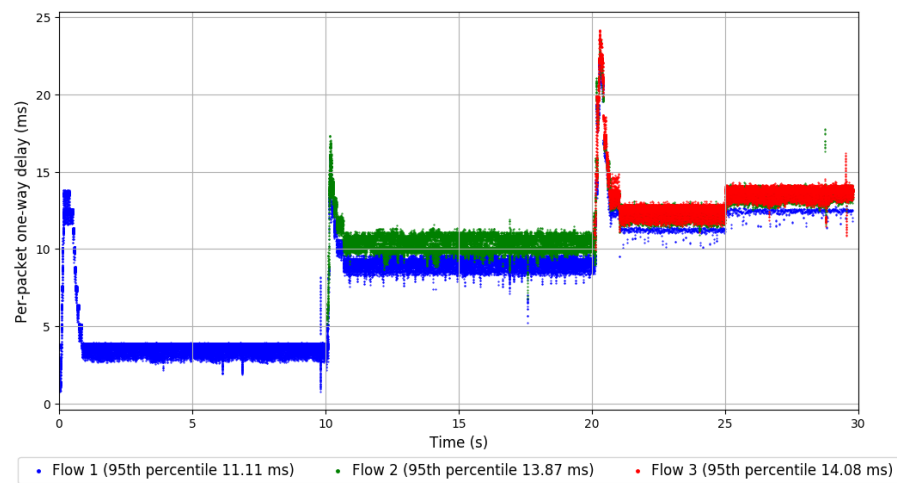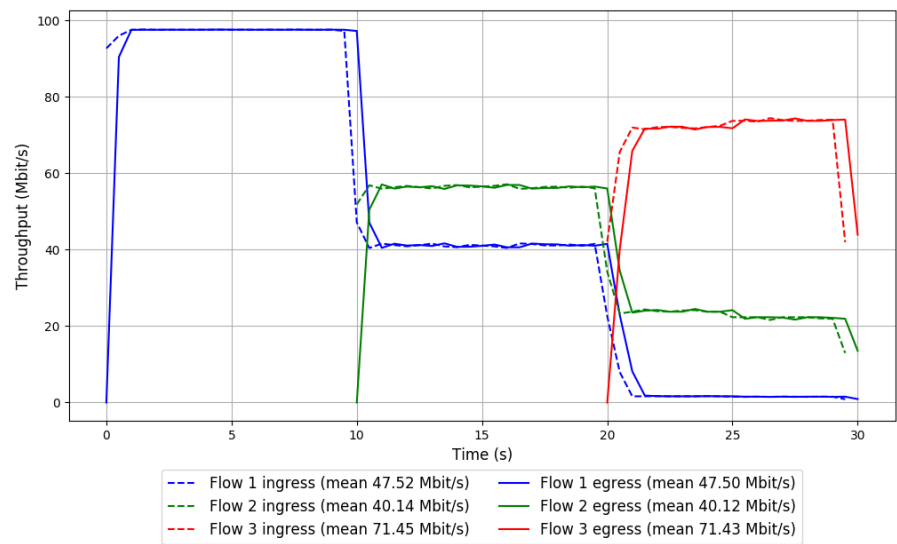
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2019-02-11 18:01:53
End at: 2019-02-11 18:02:23
Local clock offset: -0.754 ms
Remote clock offset: -0.057 ms


# Below is generated by plot.py at 2019-02-11 19:22:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 12.367 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.81 Mbit/s
95th percentile per-packet one-way delay: 11.129 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.33 Mbit/s
95th percentile per-packet one-way delay: 12.611 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 68.92 Mbit/s
95th percentile per-packet one-way delay: 11.321 ms
Loss rate: 0.00%
```
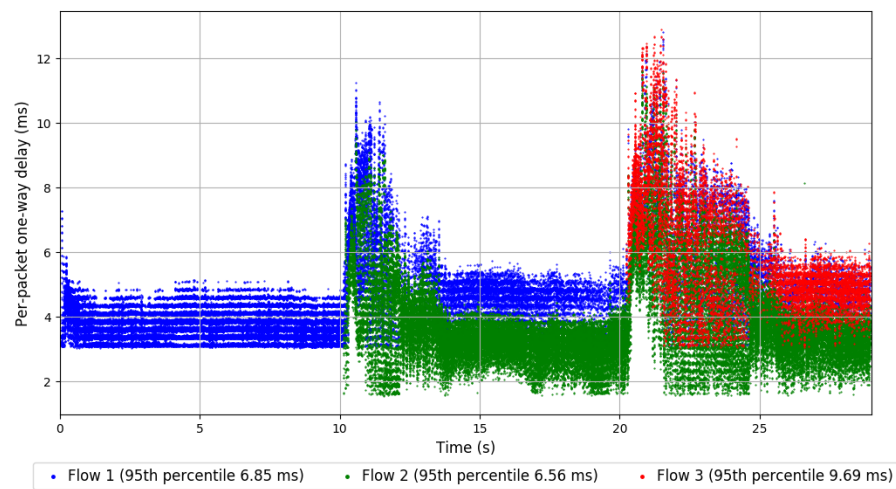
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2019-02-11 18:25:48
End at: 2019-02-11 18:26:18
Local clock offset: -3.695 ms
Remote clock offset: 0.083 ms


# Below is generated by plot.py at 2019-02-11 19:22:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 13.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.33 Mbit/s
95th percentile per-packet one-way delay: 12.049 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 13.493 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.03 Mbit/s
95th percentile per-packet one-way delay: 14.325 ms
Loss rate: 0.00%
```
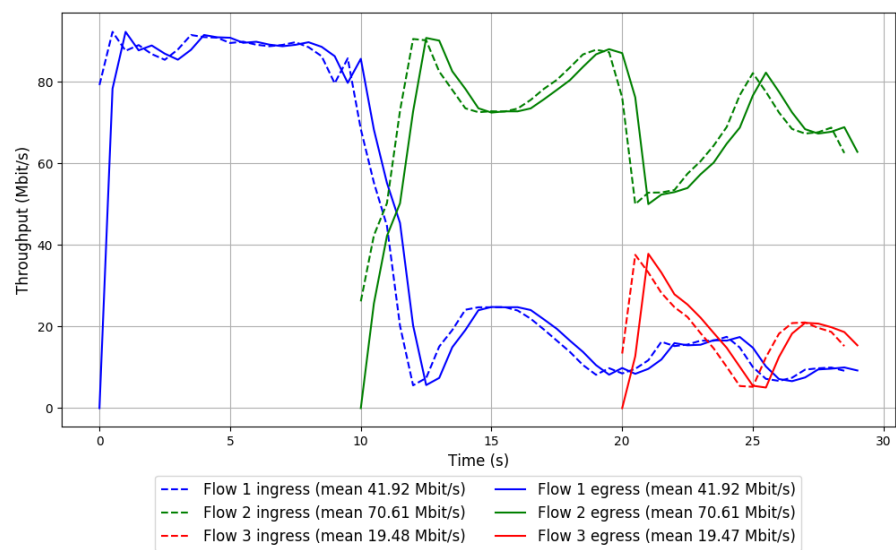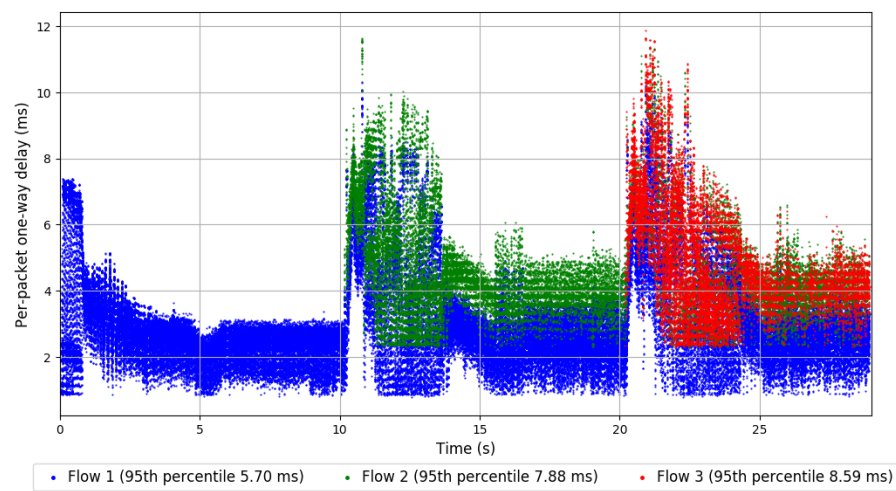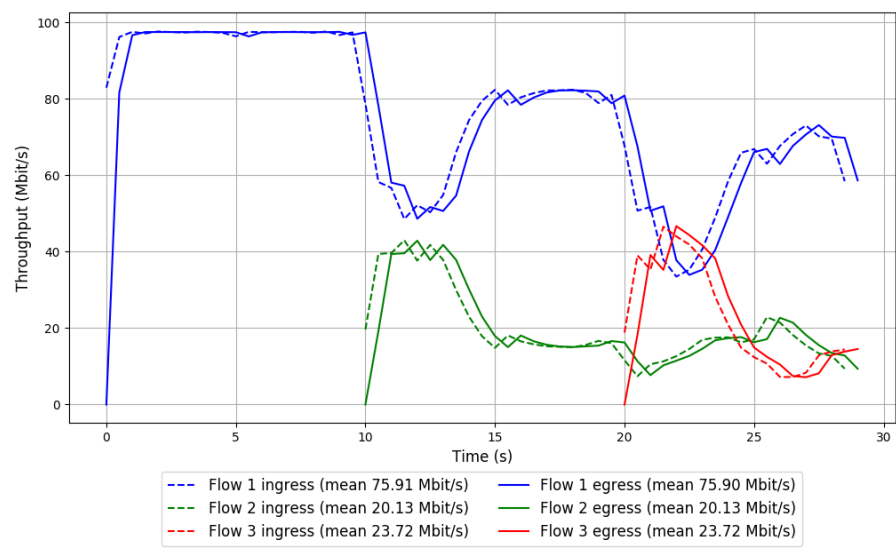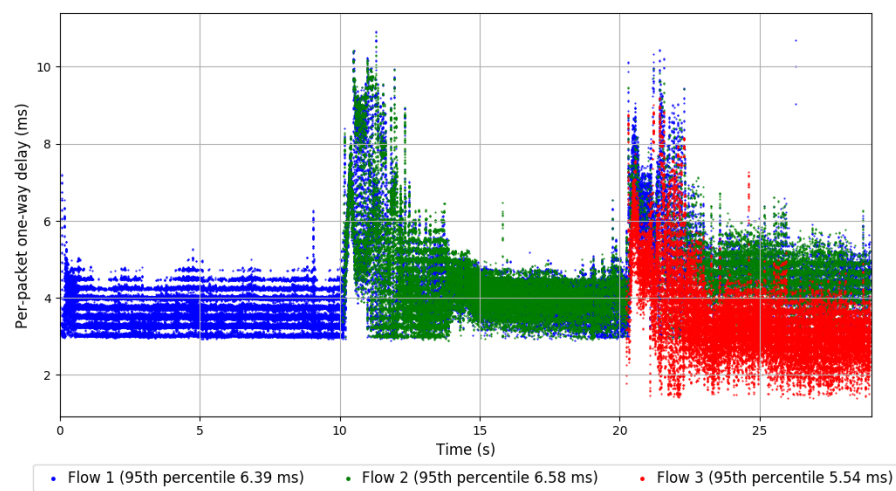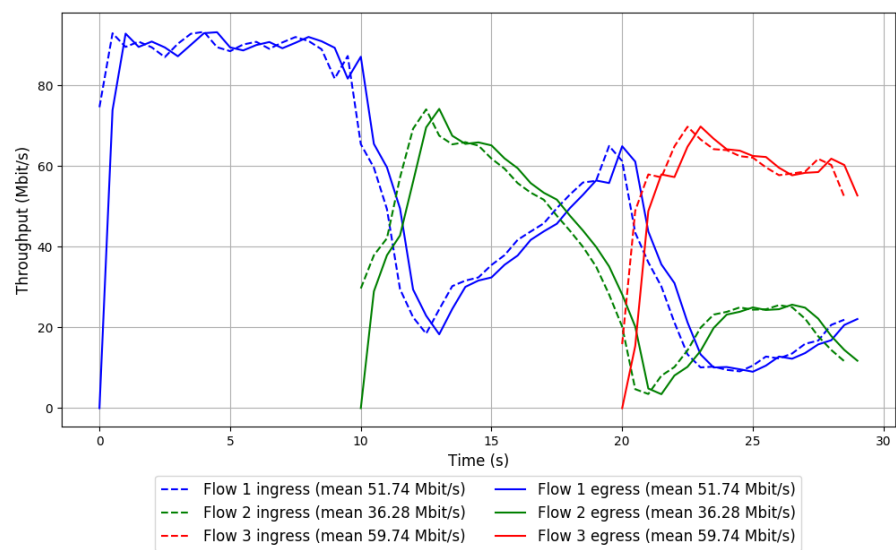
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2019-02-11 18:49:43
End at: 2019-02-11 18:50:13
Local clock offset: -1.382 ms
Remote clock offset: 0.142 ms


# Below is generated by plot.py at 2019-02-11 19:22:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 12.469 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.86 Mbit/s
95th percentile per-packet one-way delay: 11.086 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.61 Mbit/s
95th percentile per-packet one-way delay: 12.913 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.08 Mbit/s
95th percentile per-packet one-way delay: 11.903 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 46.88 Mbit/s)   Flow 1 egress (mean 46.86 Mbit/s)
Flow 2 ingress (mean 45.63 Mbit/s)   Flow 2 egress (mean 45.61 Mbit/s)
Flow 3 ingress (mean 62.10 Mbit/s)   Flow 3 egress (mean 62.08 Mbit/s)

Flow 1 (95th percentile 11.09 ms)   Flow 2 (95th percentile 12.91 ms)   Flow 3 (95th percentile 11.90 ms)

```
Run 5: Statistics of Indigo

Start at: 2019-02-11 19:13:41
End at: 2019-02-11 19:14:11
Local clock offset: -1.231 ms
Remote clock offset: 0.198 ms


# Below is generated by plot.py at 2019-02-11 19:22:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 13.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.50 Mbit/s
95th percentile per-packet one-way delay: 11.105 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.12 Mbit/s
95th percentile per-packet one-way delay: 13.867 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 71.43 Mbit/s
95th percentile per-packet one-way delay: 14.076 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-02-11 17:28:51
End at: 2019-02-11 17:29:21
Local clock offset: -0.937 ms
Remote clock offset: -0.4 ms


# Below is generated by plot.py at 2019-02-11 19:22:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 7.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.92 Mbit/s
95th percentile per-packet one-way delay: 6.851 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.61 Mbit/s
95th percentile per-packet one-way delay: 6.564 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.47 Mbit/s
95th percentile per-packet one-way delay: 9.689 ms
Loss rate: 0.00%
```
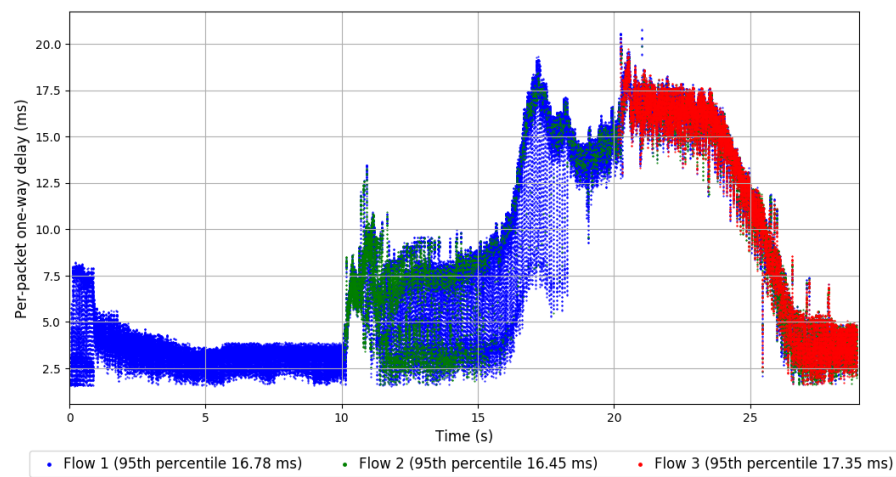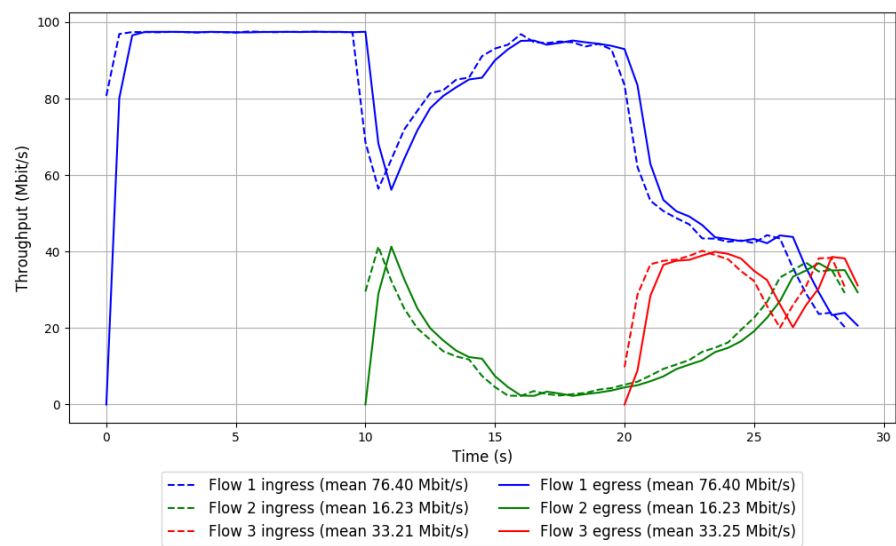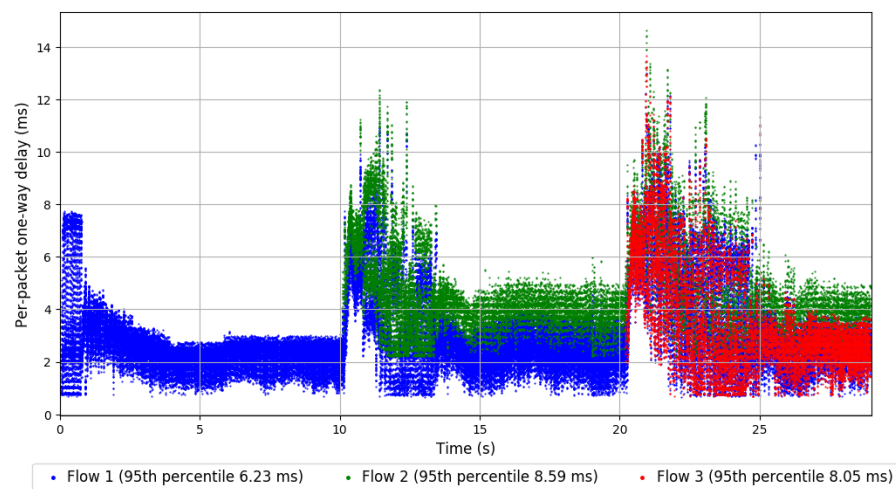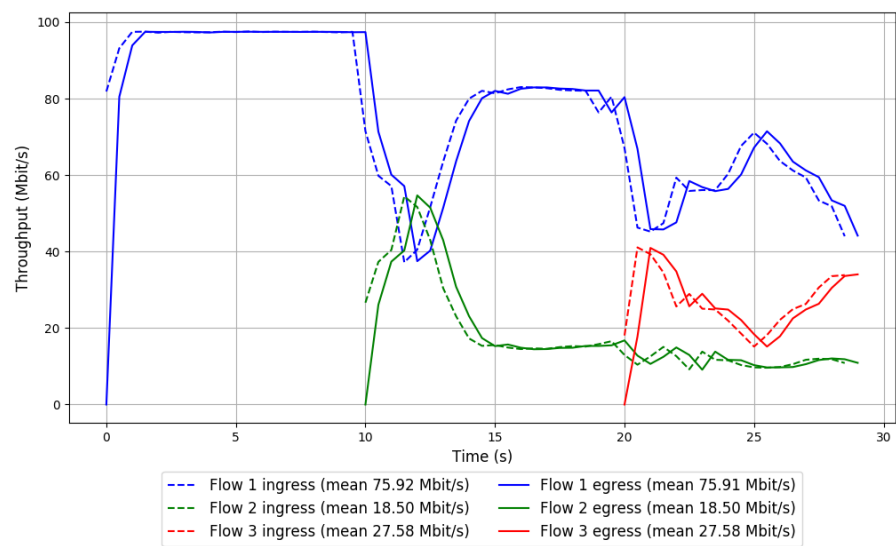
Run 1: Report of Indigo-MusesC3 — Data Link

```
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-02-11 17:52:47
End at: 2019-02-11 17:53:17
Local clock offset: -0.889 ms
Remote clock offset: -0.176 ms


# Below is generated by plot.py at 2019-02-11 19:23:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 6.696 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.90 Mbit/s
95th percentile per-packet one-way delay: 5.700 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.13 Mbit/s
95th percentile per-packet one-way delay: 7.885 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 8.592 ms
Loss rate: 0.00%
```

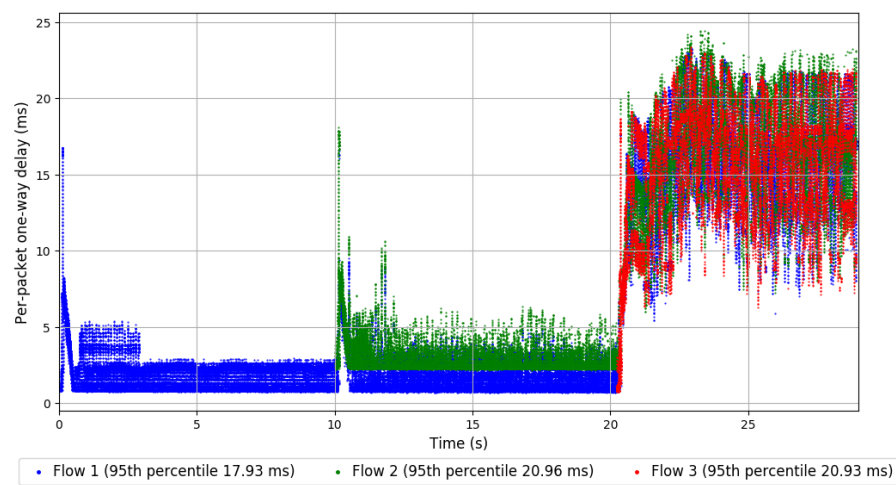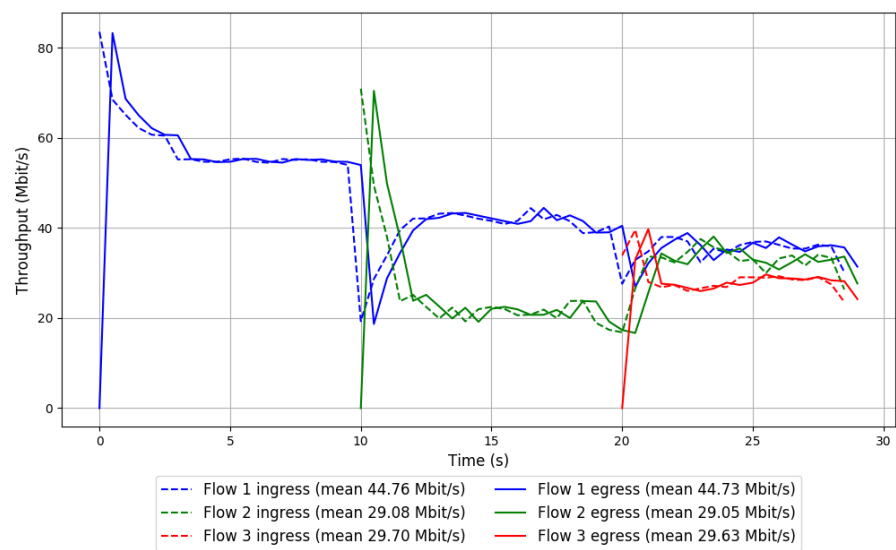Run 2: Report of Indigo-MusesC3 — Data Link

```
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-02-11 18:16:43
End at: 2019-02-11 18:17:13
Local clock offset: -3.264 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-02-11 19:23:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 6.252 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 6.388 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.28 Mbit/s
95th percentile per-packet one-way delay: 6.584 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.74 Mbit/s
95th percentile per-packet one-way delay: 5.540 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC3 — Data Link

```
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-02-11 18:40:39
End at: 2019-02-11 18:41:09
Local clock offset: -2.833 ms
Remote clock offset: 0.079 ms


# Below is generated by plot.py at 2019-02-11 19:23:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 16.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.40 Mbit/s
95th percentile per-packet one-way delay: 16.779 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.23 Mbit/s
95th percentile per-packet one-way delay: 16.452 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.25 Mbit/s
95th percentile per-packet one-way delay: 17.346 ms
Loss rate: 0.00%
```
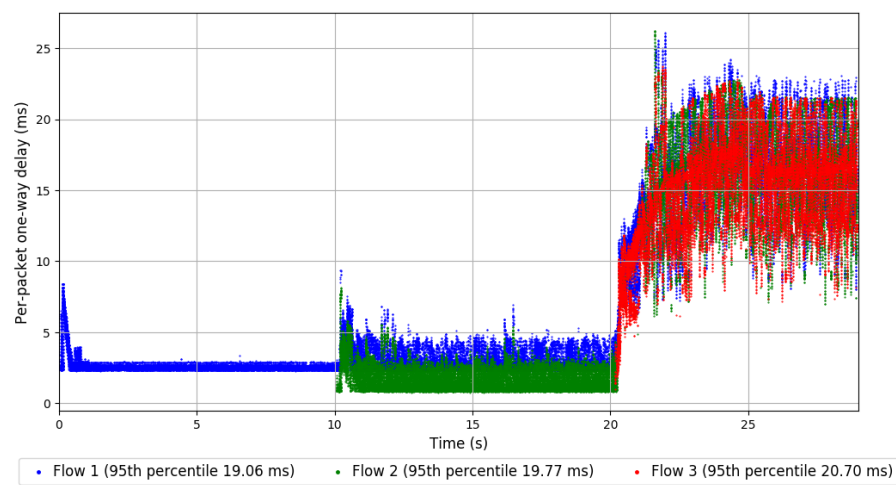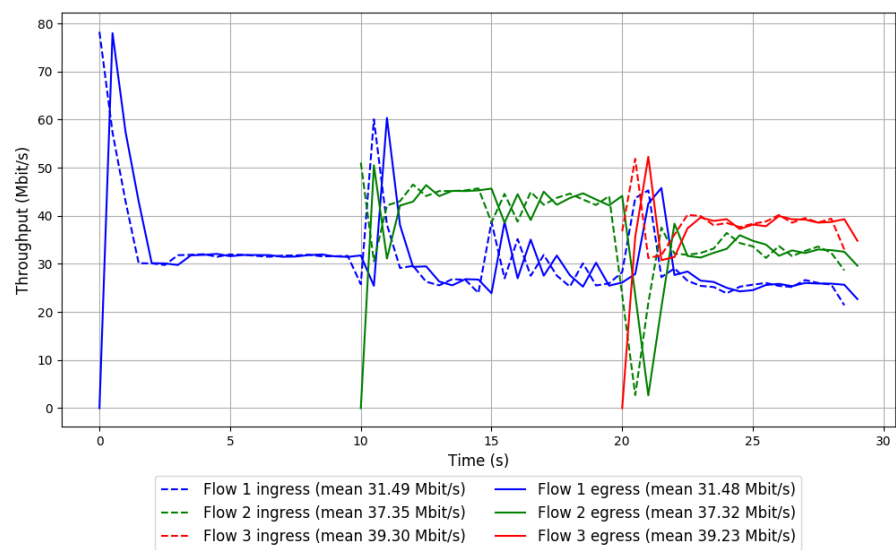
Run 4: Report of Indigo-MusesC3 — Data Link

```
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-02-11 19:04:34
End at: 2019-02-11 19:05:04
Local clock offset: -0.895 ms
Remote clock offset: 0.123 ms


# Below is generated by plot.py at 2019-02-11 19:23:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 6.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.91 Mbit/s
95th percentile per-packet one-way delay: 6.231 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.50 Mbit/s
95th percentile per-packet one-way delay: 8.592 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 8.048 ms
Loss rate: 0.00%
```
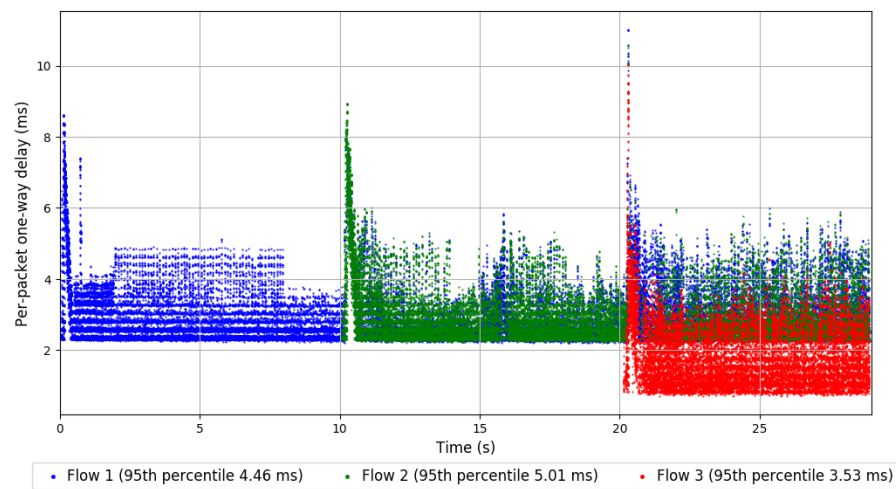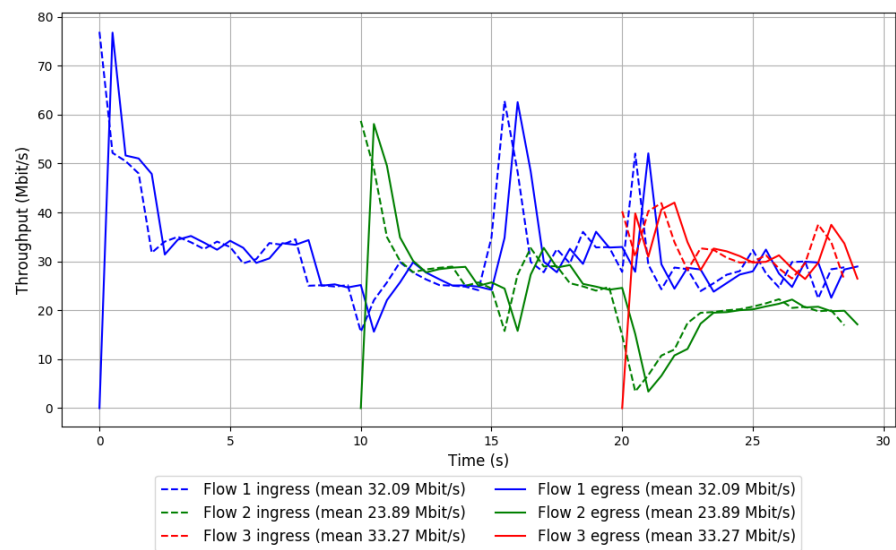
Run 5: Report of Indigo-MusesC3 — Data Link

```
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-02-11 17:34:33
End at: 2019-02-11 17:35:03
Local clock offset: 0.002 ms
Remote clock offset: -0.331 ms


# Below is generated by plot.py at 2019-02-11 19:23:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.62 Mbit/s
95th percentile per-packet one-way delay: 19.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.73 Mbit/s
95th percentile per-packet one-way delay: 17.930 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.05 Mbit/s
95th percentile per-packet one-way delay: 20.957 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 20.932 ms
Loss rate: 0.00%
```
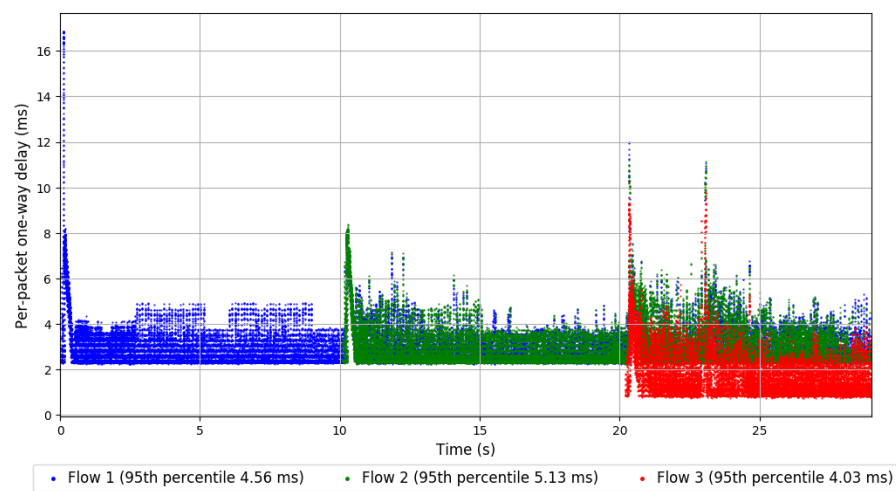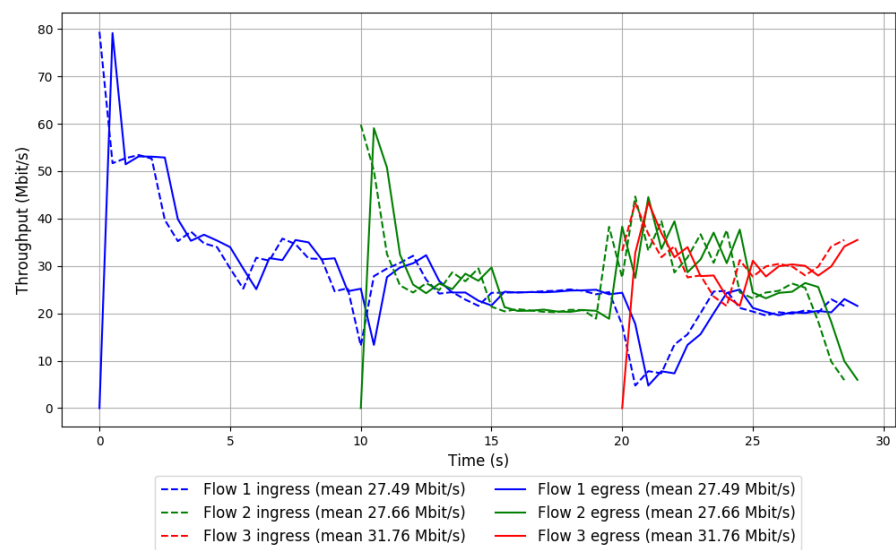
Run 1: Report of Indigo-MusesC5 — Data Link

Flow 1 ingress (mean 44.76 Mbit/s)   Flow 1 egress (mean 44.73 Mbit/s)
Flow 2 ingress (mean 29.08 Mbit/s)   Flow 2 egress (mean 29.05 Mbit/s)
Flow 3 ingress (mean 29.70 Mbit/s)   Flow 3 egress (mean 29.63 Mbit/s)

Flow 1 (95th percentile 17.93 ms)   Flow 2 (95th percentile 20.96 ms)   Flow 3 (95th percentile 20.93 ms)

```
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-02-11 17:58:29
End at: 2019-02-11 17:58:59
Local clock offset: -0.826 ms
Remote clock offset: -0.161 ms


# Below is generated by plot.py at 2019-02-11 19:23:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.69 Mbit/s
95th percentile per-packet one-way delay: 19.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.48 Mbit/s
95th percentile per-packet one-way delay: 19.061 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.32 Mbit/s
95th percentile per-packet one-way delay: 19.768 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 20.696 ms
Loss rate: 0.00%
```
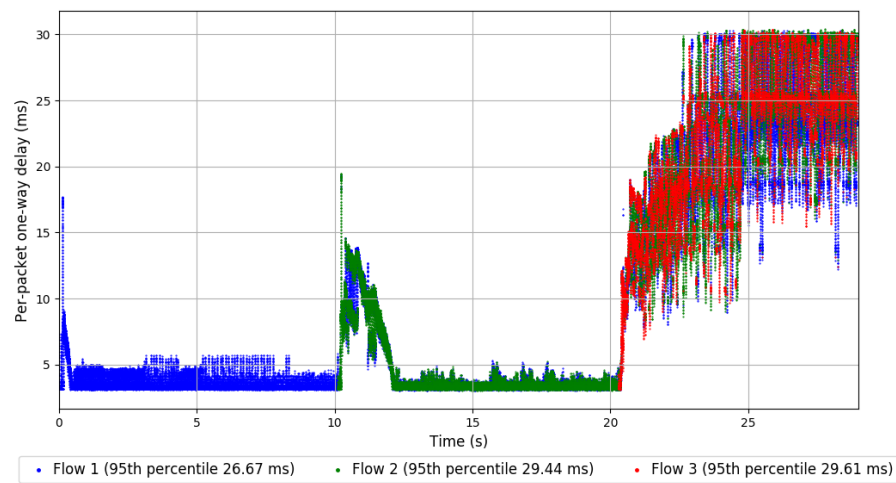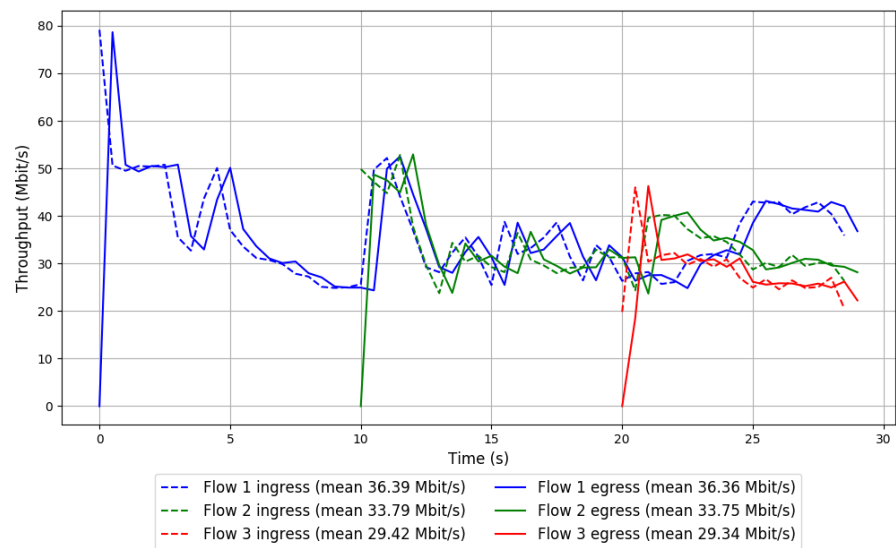
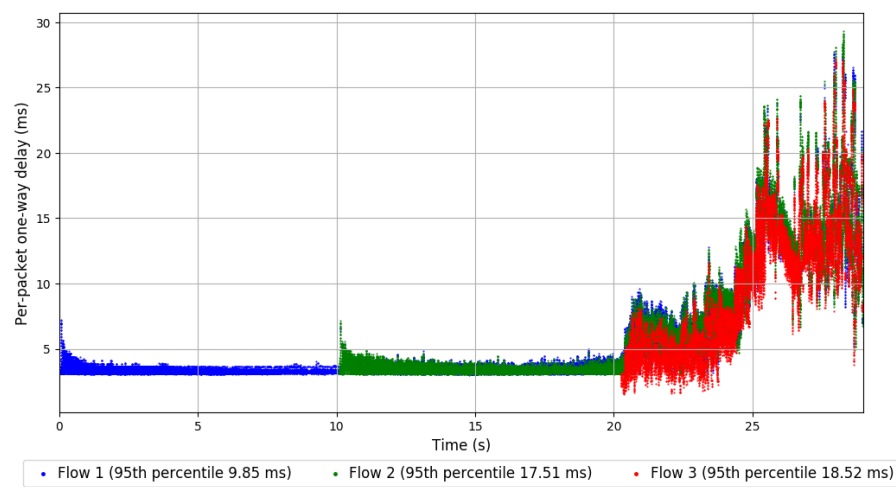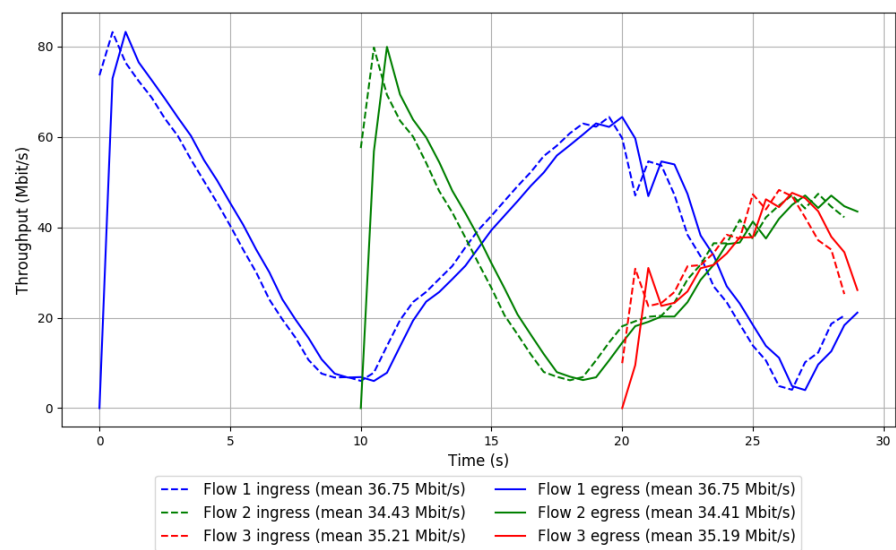Run 2: Report of Indigo-MusesC5 — Data Link

```
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-02-11 18:22:25
End at: 2019-02-11 18:22:55
Local clock offset: -2.816 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-02-11 19:23:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.78 Mbit/s
95th percentile per-packet one-way delay: 4.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.09 Mbit/s
95th percentile per-packet one-way delay: 4.462 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 5.008 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.27 Mbit/s
95th percentile per-packet one-way delay: 3.528 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-MusesC5 — Data Link

```
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-02-11 18:46:20
End at: 2019-02-11 18:46:50
Local clock offset: -1.585 ms
Remote clock offset: 0.102 ms


# Below is generated by plot.py at 2019-02-11 19:23:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.11 Mbit/s
95th percentile per-packet one-way delay: 4.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.49 Mbit/s
95th percentile per-packet one-way delay: 4.563 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 27.66 Mbit/s
95th percentile per-packet one-way delay: 5.128 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.76 Mbit/s
95th percentile per-packet one-way delay: 4.031 ms
Loss rate: 0.00%
```

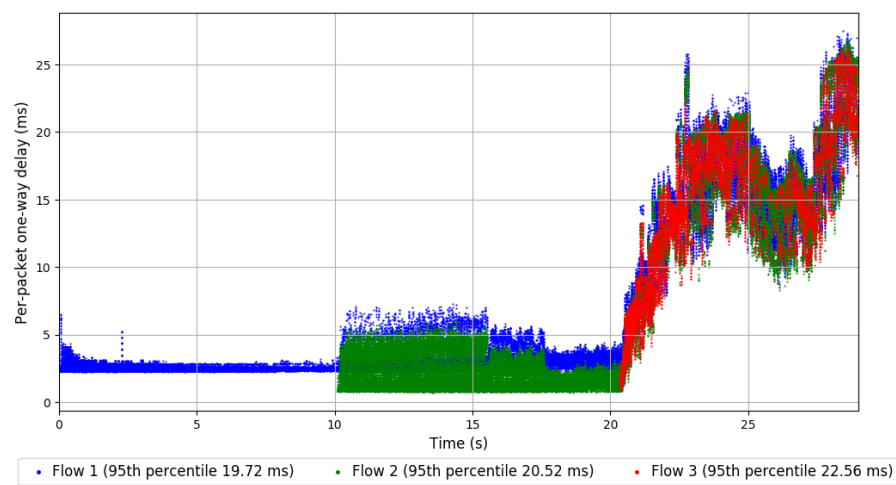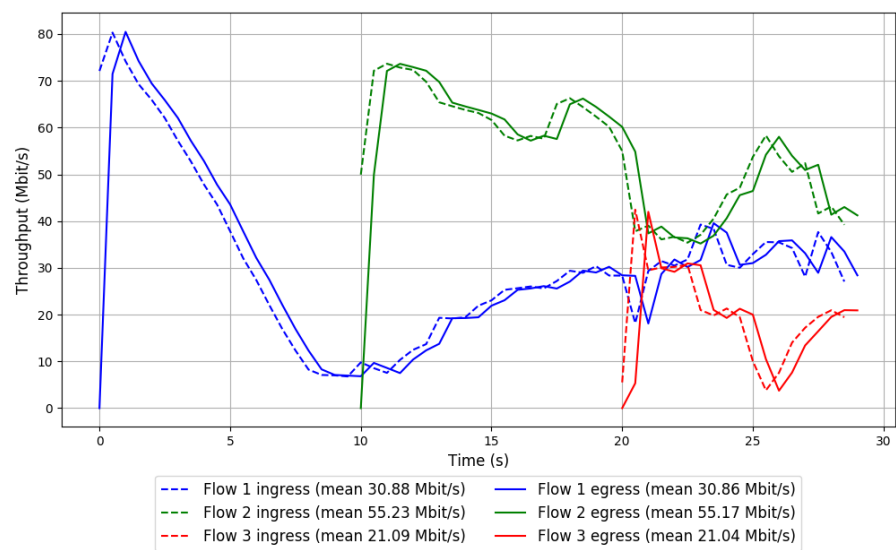Run 4: Report of Indigo-MusesC5 — Data Link

Legend:
- Flow 1 ingress (mean 27.49 Mbit/s)
- Flow 1 egress (mean 27.49 Mbit/s)
- Flow 2 ingress (mean 27.66 Mbit/s)
- Flow 2 egress (mean 27.66 Mbit/s)
- Flow 3 ingress (mean 31.76 Mbit/s)
- Flow 3 egress (mean 31.76 Mbit/s)

Legend:
- Flow 1 (95th percentile 4.56 ms)
- Flow 2 (95th percentile 5.13 ms)
- Flow 3 (95th percentile 4.03 ms)

```
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-02-11 19:10:17
End at: 2019-02-11 19:10:47
Local clock offset: -1.972 ms
Remote clock offset: 0.179 ms


# Below is generated by plot.py at 2019-02-11 19:23:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.12 Mbit/s
95th percentile per-packet one-way delay: 28.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 26.666 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 29.437 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 29.609 ms
Loss rate: 0.00%
```

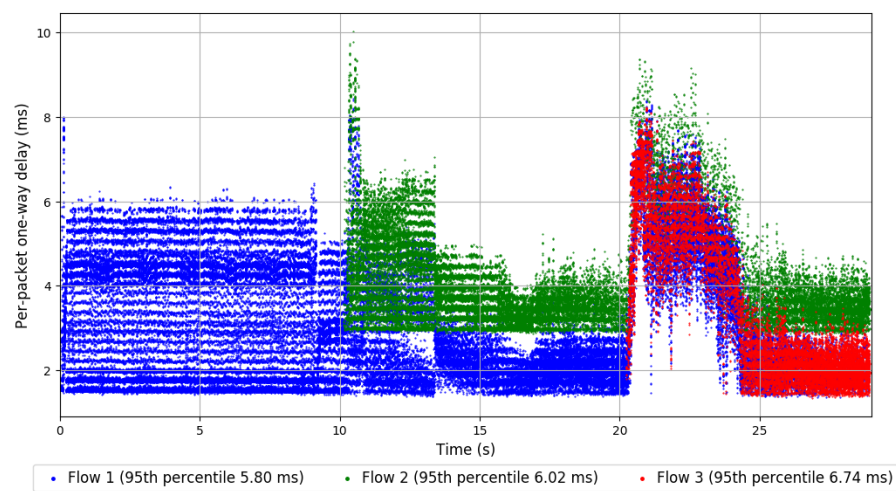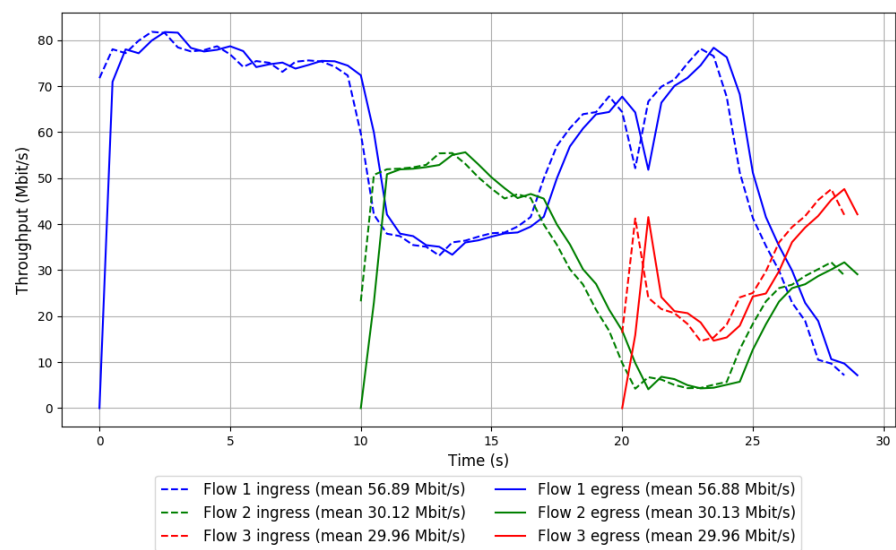Run 5: Report of Indigo-MusesC5 — Data Link

```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-02-11 17:22:01
End at: 2019-02-11 17:22:31
Local clock offset: -1.172 ms
Remote clock offset: -0.392 ms


# Below is generated by plot.py at 2019-02-11 19:24:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 15.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.75 Mbit/s
95th percentile per-packet one-way delay: 9.850 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.41 Mbit/s
95th percentile per-packet one-way delay: 17.512 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 18.521 ms
Loss rate: 0.00%
```
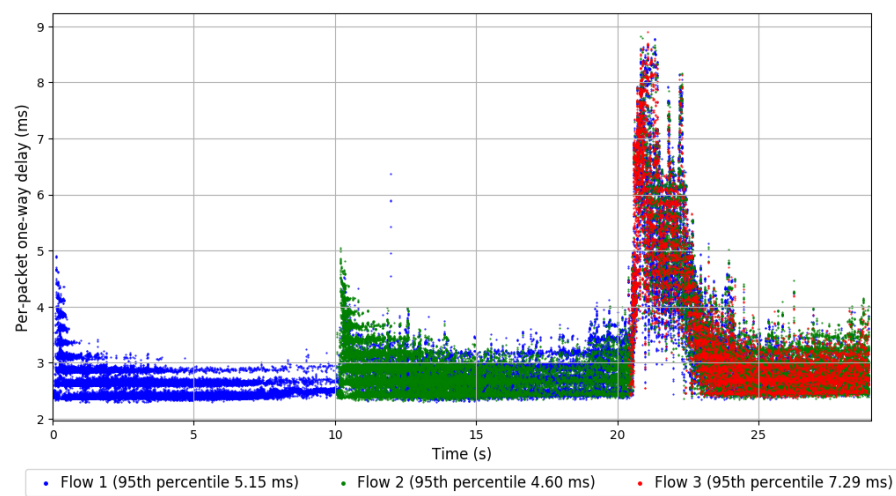
Run 1: Report of Indigo-MusesD — Data Link

```
Run 2: Statistics of Indigo-MusesD

Start at: 2019-02-11 17:45:57
End at: 2019-02-11 17:46:27
Local clock offset: -0.831 ms
Remote clock offset: -0.281 ms


# Below is generated by plot.py at 2019-02-11 19:24:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.05 Mbit/s
95th percentile per-packet one-way delay: 20.472 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 19.720 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 55.17 Mbit/s
95th percentile per-packet one-way delay: 20.522 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 21.04 Mbit/s
95th percentile per-packet one-way delay: 22.556 ms
Loss rate: 0.00%
```
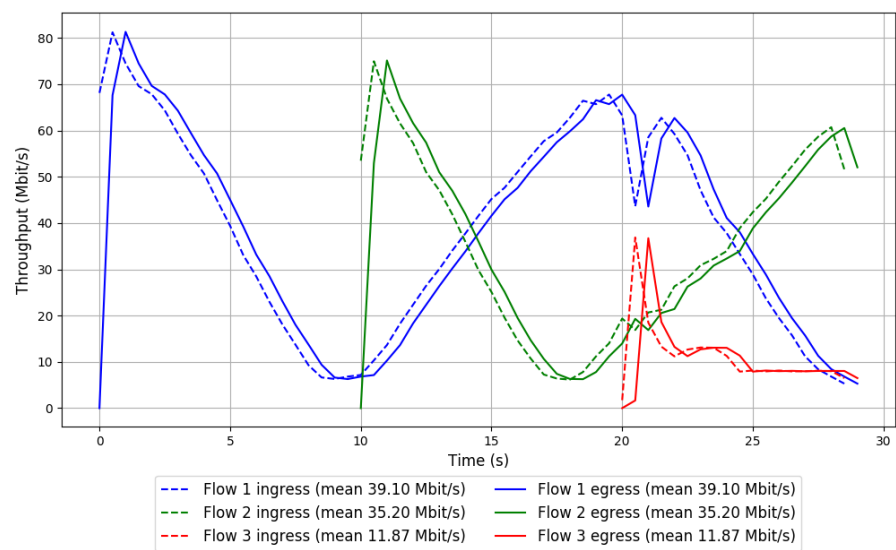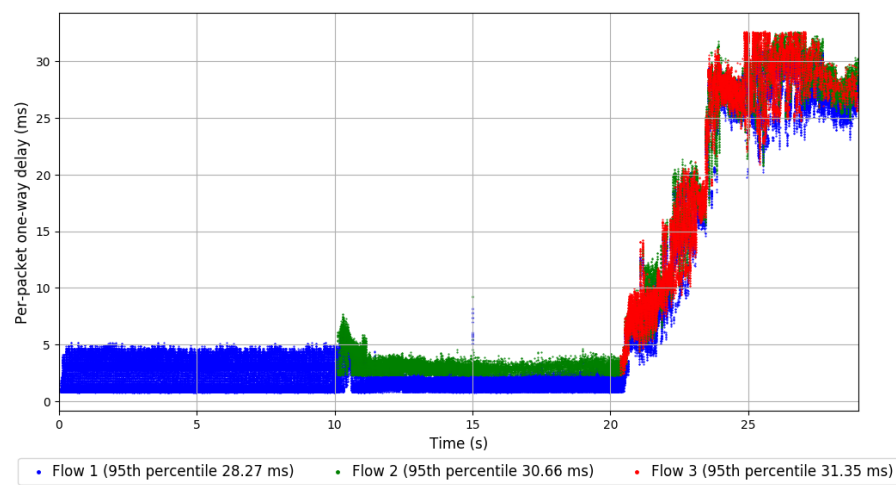
Run 2: Report of Indigo-MusesD — Data Link

```
Run 3: Statistics of Indigo-MusesD

Start at: 2019-02-11 18:09:52
End at: 2019-02-11 18:10:22
Local clock offset: -2.565 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-02-11 19:24:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.45 Mbit/s
95th percentile per-packet one-way delay: 5.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 5.805 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.13 Mbit/s
95th percentile per-packet one-way delay: 6.020 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 6.736 ms
Loss rate: 0.00%
```
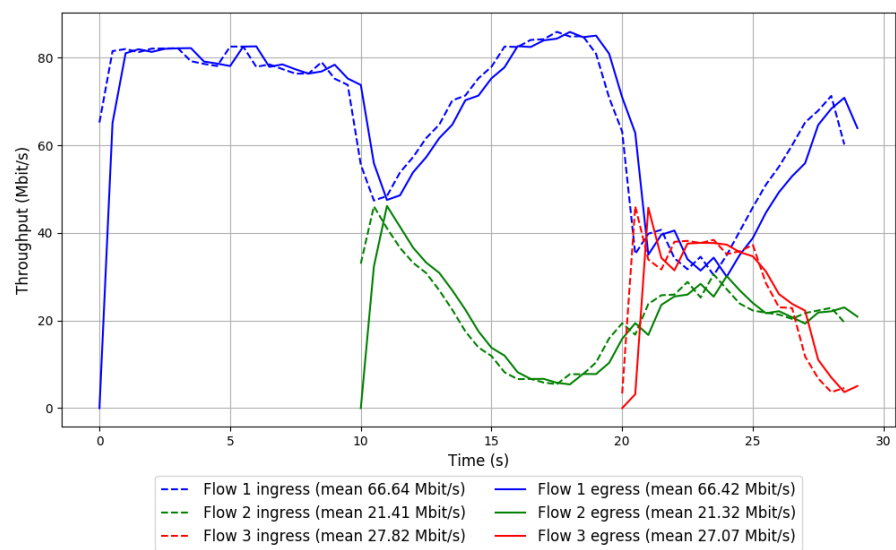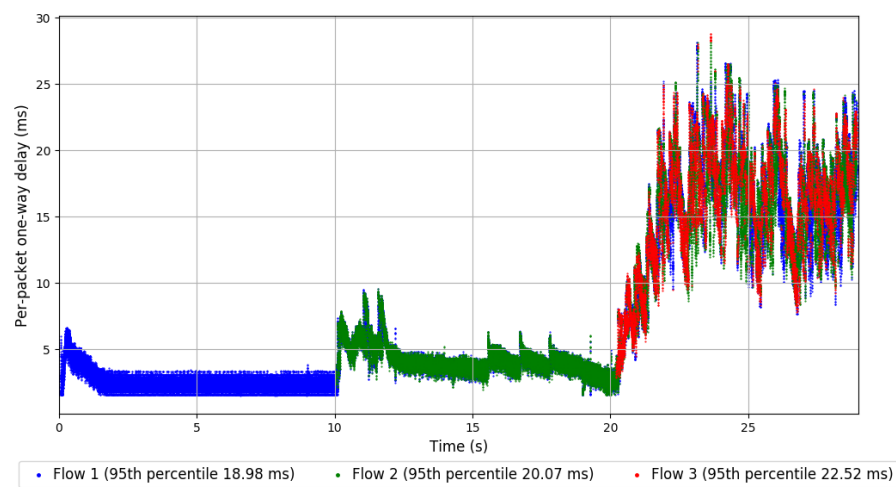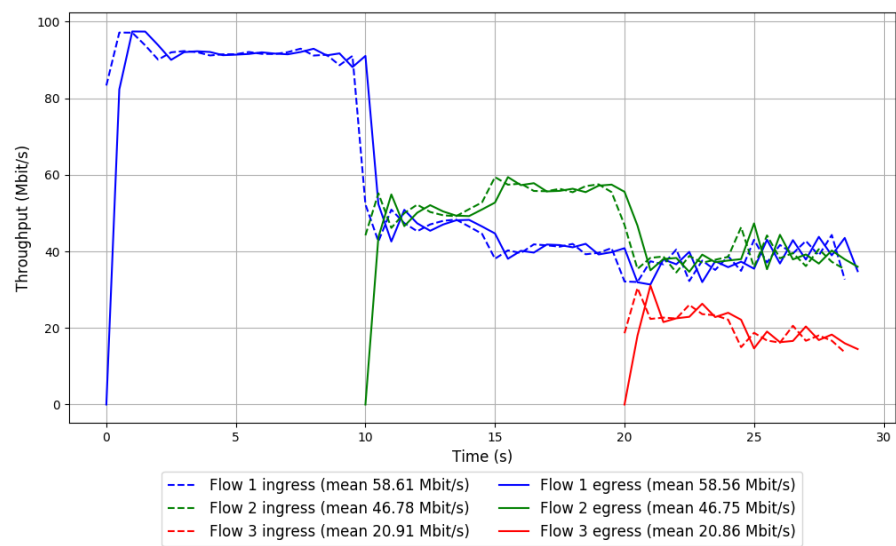
Run 3: Report of Indigo-MusesD — Data Link

```
Run 4: Statistics of Indigo-MusesD

Start at: 2019-02-11 18:33:48
End at: 2019-02-11 18:34:18
Local clock offset: -3.194 ms
Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2019-02-11 19:24:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.55 Mbit/s
95th percentile per-packet one-way delay: 5.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 5.151 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.20 Mbit/s
95th percentile per-packet one-way delay: 4.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 7.290 ms
Loss rate: 0.00%
```
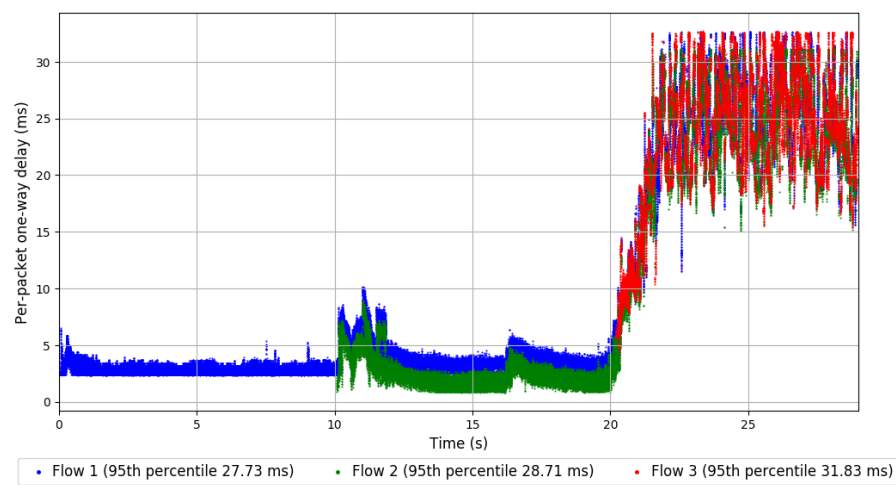
Run 4: Report of Indigo-MusesD — Data Link

```
Run 5: Statistics of Indigo-MusesD

Start at: 2019-02-11 18:57:43
End at: 2019-02-11 18:58:13
Local clock offset: -1.068 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2019-02-11 19:24:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.35 Mbit/s
95th percentile per-packet one-way delay: 29.462 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 66.42 Mbit/s
95th percentile per-packet one-way delay: 28.274 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 30.658 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 27.07 Mbit/s
95th percentile per-packet one-way delay: 31.346 ms
Loss rate: 2.40%
```
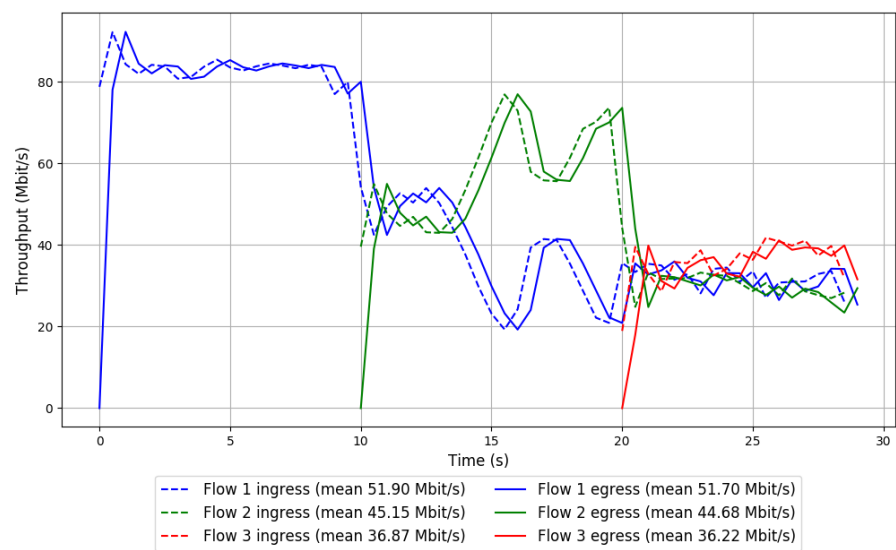
Run 5: Report of Indigo-MusesD — Data Link

```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-02-11 17:31:10
End at: 2019-02-11 17:31:40
Local clock offset: -0.811 ms
Remote clock offset: -0.395 ms


# Below is generated by plot.py at 2019-02-11 19:24:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.39 Mbit/s
95th percentile per-packet one-way delay: 19.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.56 Mbit/s
95th percentile per-packet one-way delay: 18.978 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.75 Mbit/s
95th percentile per-packet one-way delay: 20.065 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 22.518 ms
Loss rate: 0.01%
```
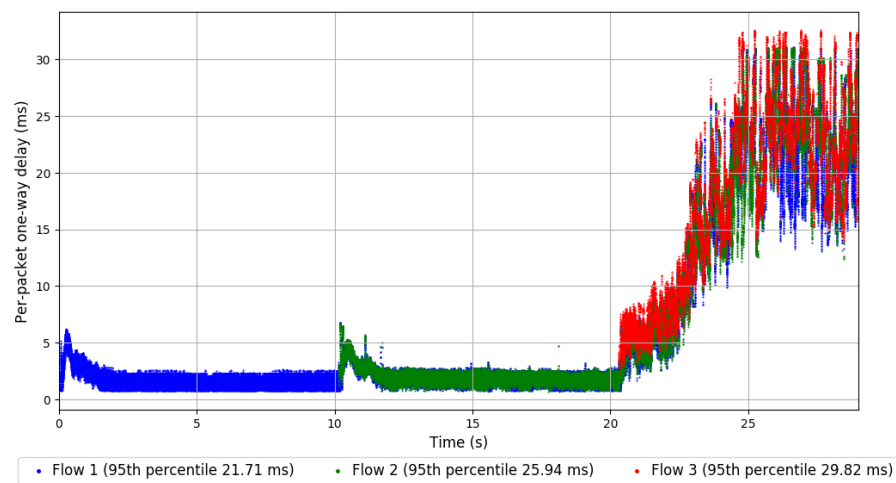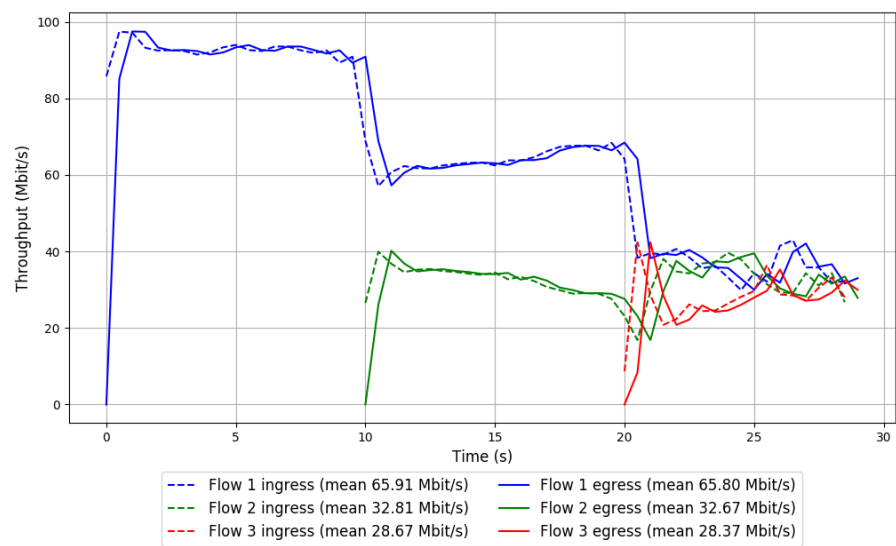
Run 1: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 58.61 Mbit/s) Flow 1 egress (mean 58.56 Mbit/s)
Flow 2 ingress (mean 46.78 Mbit/s) Flow 2 egress (mean 46.75 Mbit/s)
Flow 3 ingress (mean 20.91 Mbit/s) Flow 3 egress (mean 20.86 Mbit/s)

Flow 1 (95th percentile 18.98 ms)   Flow 2 (95th percentile 20.07 ms)   Flow 3 (95th percentile 22.52 ms)

```
Run 2: Statistics of Indigo-MusesT

Start at: 2019-02-11 17:55:06
End at: 2019-02-11 17:55:36
Local clock offset: -0.872 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2019-02-11 19:24:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.77 Mbit/s
95th percentile per-packet one-way delay: 29.323 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 51.70 Mbit/s
95th percentile per-packet one-way delay: 27.729 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 44.68 Mbit/s
95th percentile per-packet one-way delay: 28.713 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 36.22 Mbit/s
95th percentile per-packet one-way delay: 31.833 ms
Loss rate: 1.60%
```
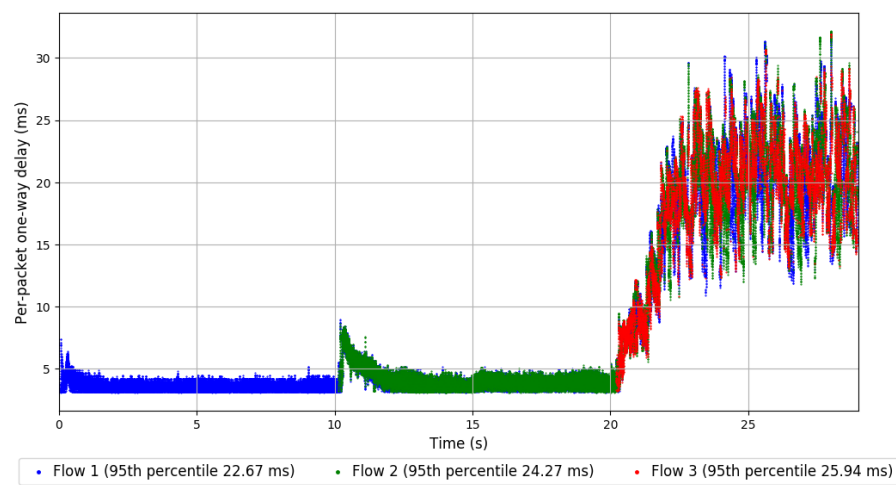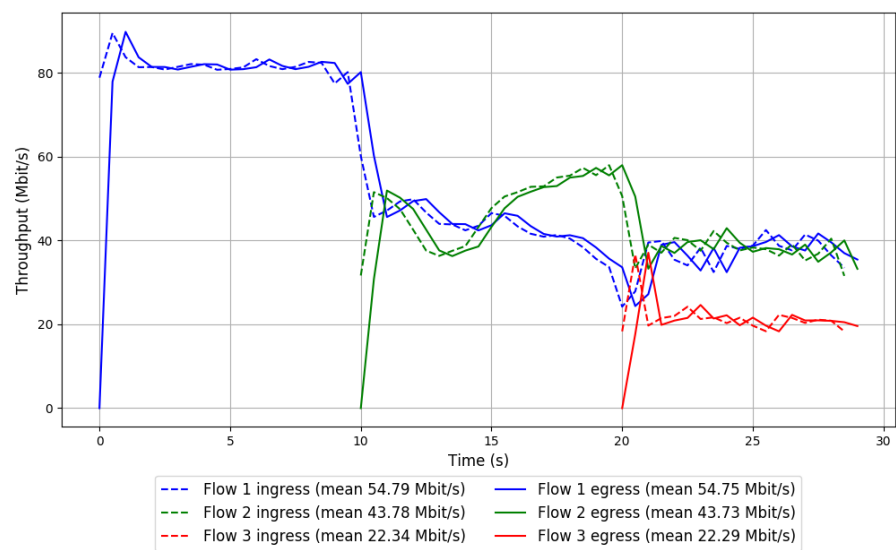
Run 2: Report of Indigo-MusesT — Data Link

```
Run 3: Statistics of Indigo-MusesT

Start at: 2019-02-11 18:19:02
End at: 2019-02-11 18:19:32
Local clock offset: -2.642 ms
Remote clock offset: 0.044 ms


# Below is generated by plot.py at 2019-02-11 19:25:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 24.898 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 65.80 Mbit/s
95th percentile per-packet one-way delay: 21.706 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 32.67 Mbit/s
95th percentile per-packet one-way delay: 25.943 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 29.824 ms
Loss rate: 0.79%
```
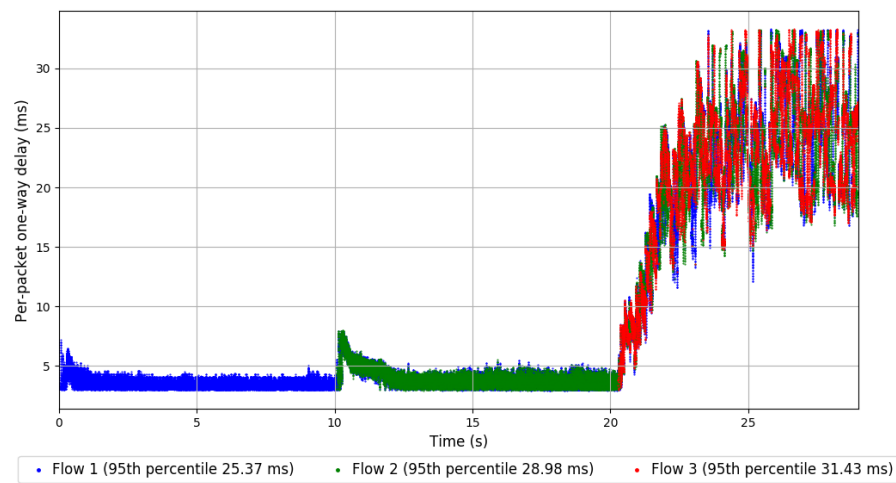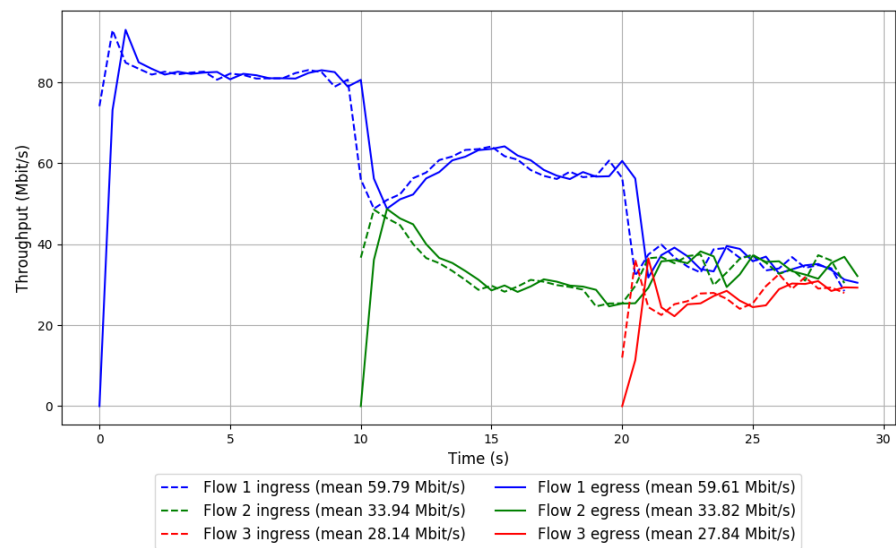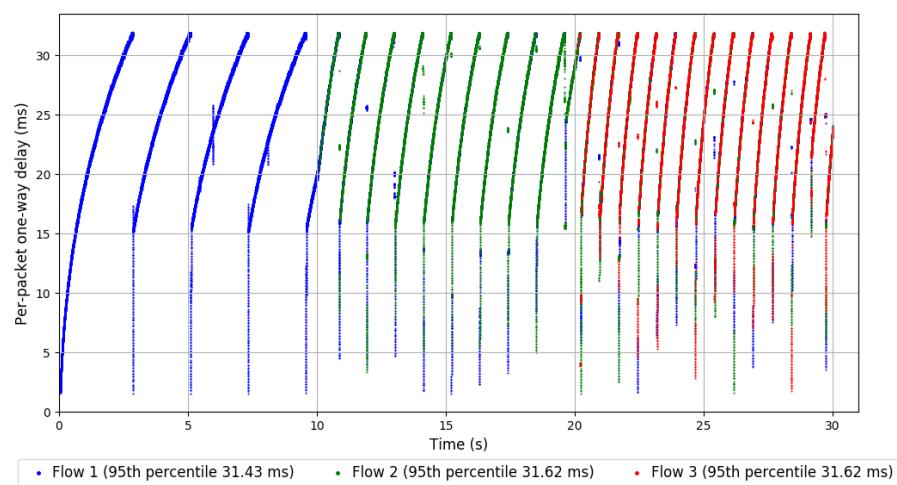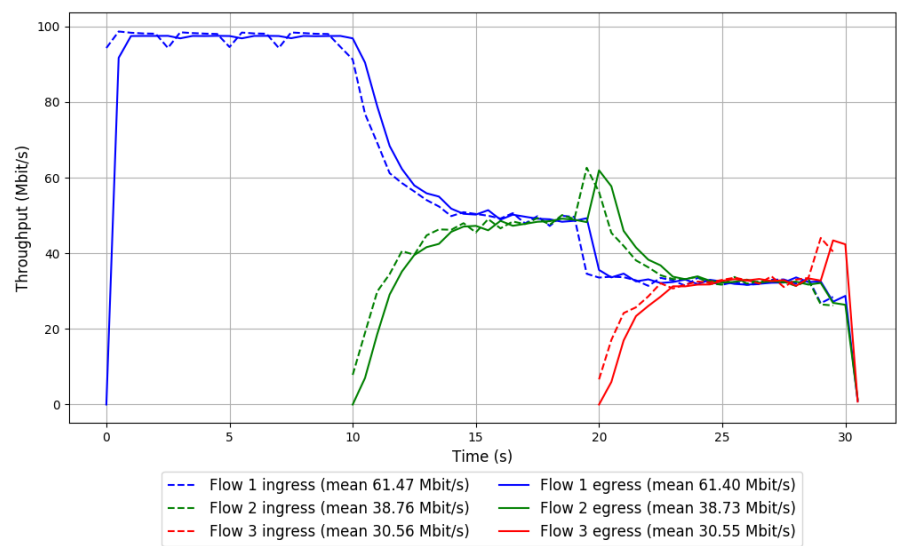
Run 3: Report of Indigo-MusesT — Data Link

- - - Flow 1 ingress (mean 65.91 Mbit/s) — Flow 1 egress (mean 65.80 Mbit/s)
- - - Flow 2 ingress (mean 32.81 Mbit/s) — Flow 2 egress (mean 32.67 Mbit/s)
- - - Flow 3 ingress (mean 28.67 Mbit/s) — Flow 3 egress (mean 28.37 Mbit/s)

• Flow 1 (95th percentile 21.71 ms)   • Flow 2 (95th percentile 25.94 ms)   • Flow 3 (95th percentile 29.82 ms)

```
Run 4: Statistics of Indigo-MusesT

Start at: 2019-02-11 18:42:57
End at: 2019-02-11 18:43:27
Local clock offset: -2.609 ms
Remote clock offset: 0.164 ms


# Below is generated by plot.py at 2019-02-11 19:25:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.89 Mbit/s
95th percentile per-packet one-way delay: 23.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.75 Mbit/s
95th percentile per-packet one-way delay: 22.667 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.73 Mbit/s
95th percentile per-packet one-way delay: 24.268 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.29 Mbit/s
95th percentile per-packet one-way delay: 25.937 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-MusesT — Data Link
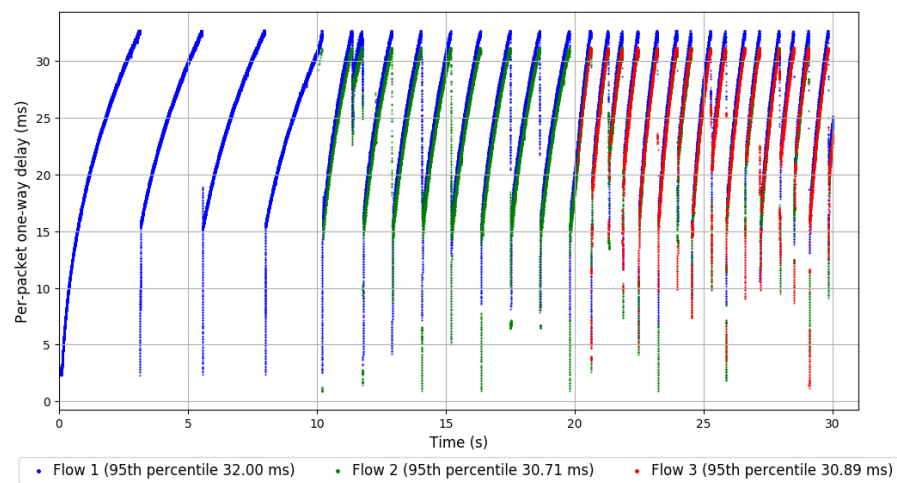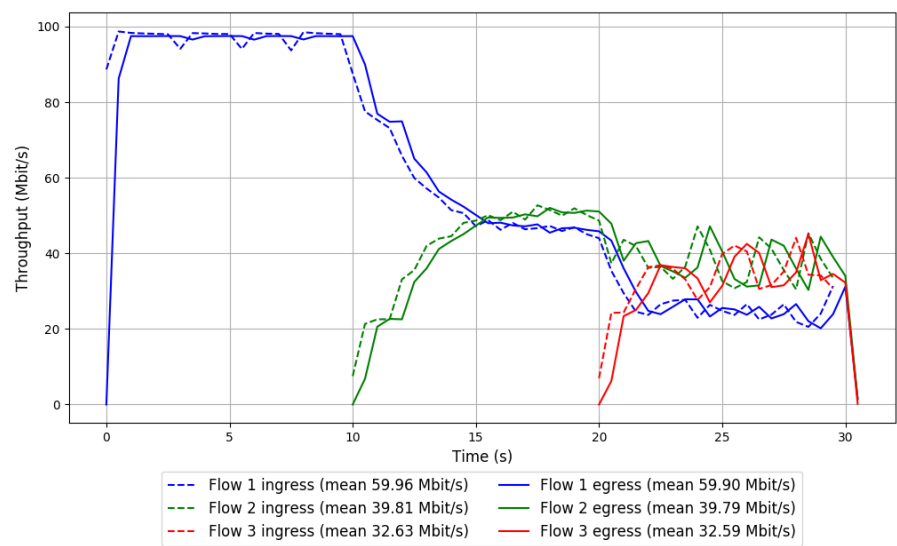
```
Run 5: Statistics of Indigo-MusesT

Start at: 2019-02-11 19:06:53
End at: 2019-02-11 19:07:23
Local clock offset: -1.779 ms
Remote clock offset: 0.127 ms


# Below is generated by plot.py at 2019-02-11 19:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 27.859 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 59.61 Mbit/s
95th percentile per-packet one-way delay: 25.372 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 33.82 Mbit/s
95th percentile per-packet one-way delay: 28.976 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 31.435 ms
Loss rate: 0.82%
```

Run 5: Report of Indigo-MusesT — Data Link

Flow 1 ingress (mean 59.79 Mbit/s)   Flow 1 egress (mean 59.61 Mbit/s)
Flow 2 ingress (mean 33.94 Mbit/s)   Flow 2 egress (mean 33.82 Mbit/s)
Flow 3 ingress (mean 28.14 Mbit/s)   Flow 3 egress (mean 27.84 Mbit/s)

Flow 1 (95th percentile 25.37 ms)   Flow 2 (95th percentile 28.98 ms)   Flow 3 (95th percentile 31.43 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2019-02-11 17:39:08
End at: 2019-02-11 17:39:38
Local clock offset: -1.255 ms
Remote clock offset: -0.299 ms


# Below is generated by plot.py at 2019-02-11 19:25:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 31.590 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 61.40 Mbit/s
95th percentile per-packet one-way delay: 31.427 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 31.620 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 31.617 ms
Loss rate: 0.09%
```
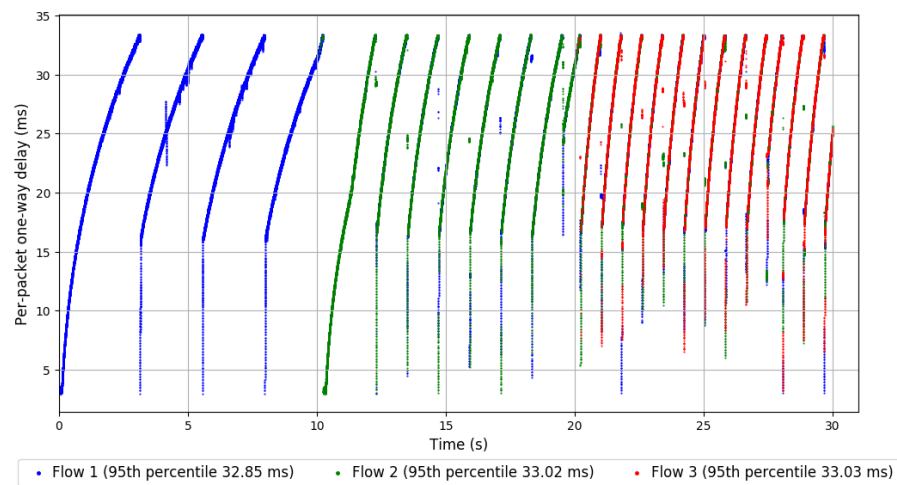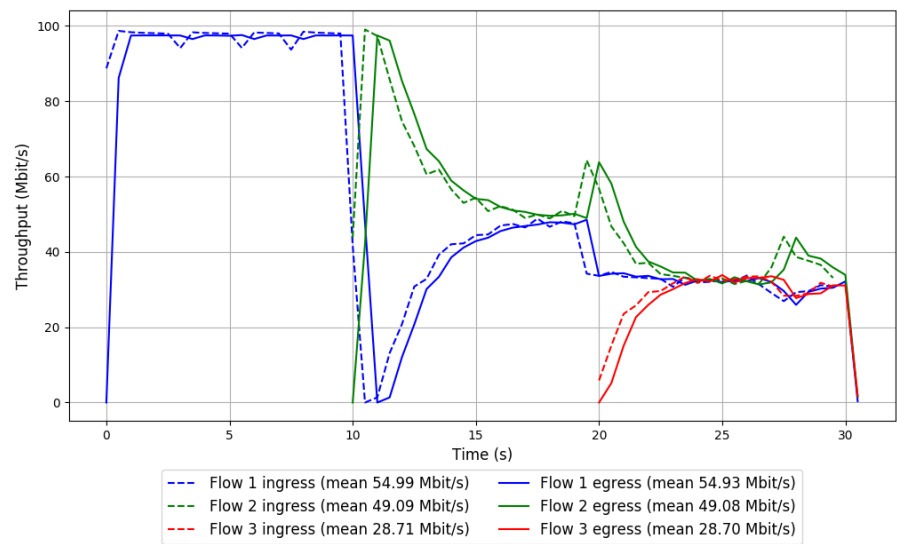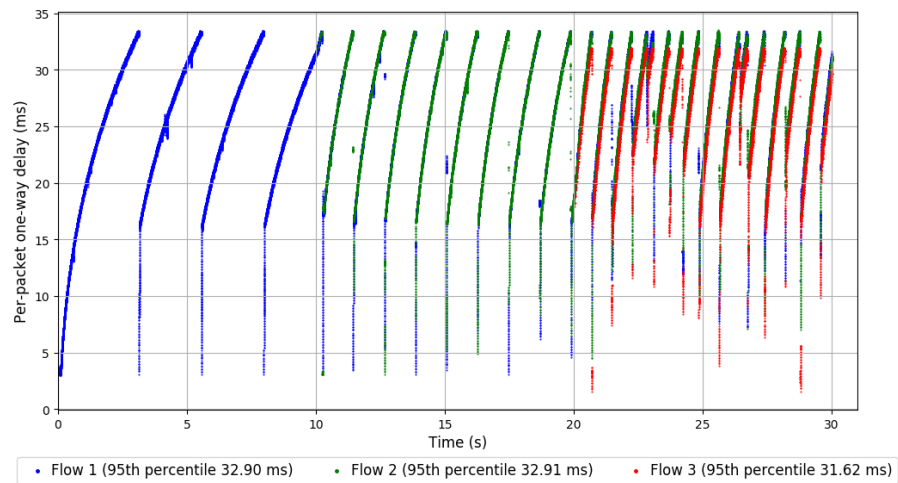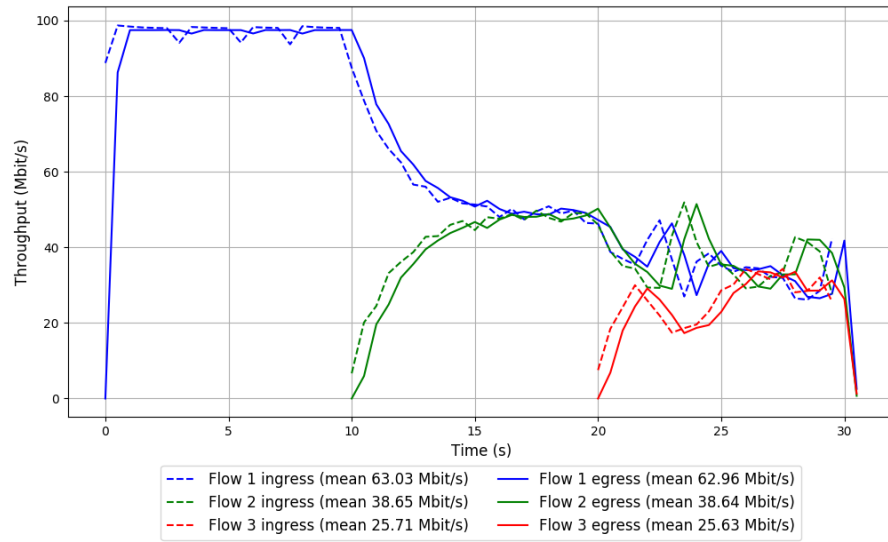
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2019-02-11 18:03:03
End at: 2019-02-11 18:03:33
Local clock offset: -0.8 ms
Remote clock offset: -0.122 ms


# Below is generated by plot.py at 2019-02-11 19:25:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.21 Mbit/s
95th percentile per-packet one-way delay: 31.700 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 59.90 Mbit/s
95th percentile per-packet one-way delay: 31.996 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.79 Mbit/s
95th percentile per-packet one-way delay: 30.715 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 32.59 Mbit/s
95th percentile per-packet one-way delay: 30.891 ms
Loss rate: 0.10%
```

Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2019-02-11 18:26:59
End at: 2019-02-11 18:27:29
Local clock offset: -3.734 ms
Remote clock offset: 0.047 ms


# Below is generated by plot.py at 2019-02-11 19:25:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 32.877 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 32.849 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 33.023 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 28.70 Mbit/s
95th percentile per-packet one-way delay: 33.035 ms
Loss rate: 0.09%
```
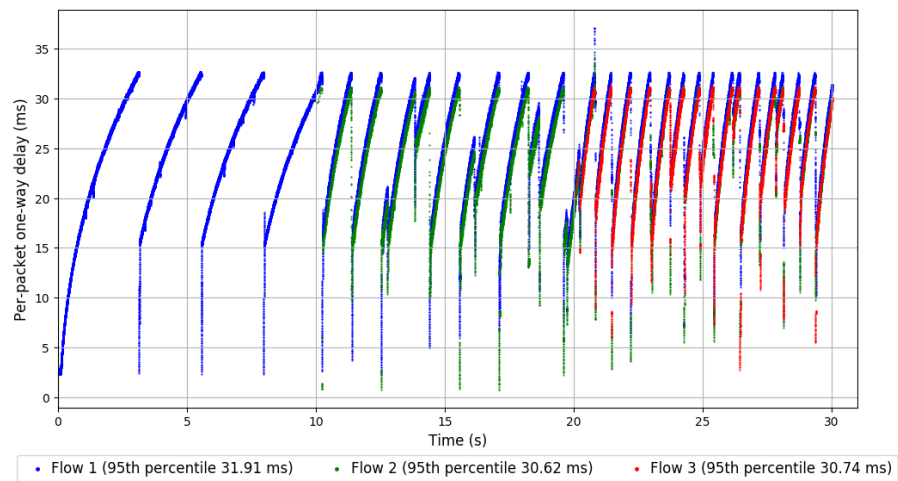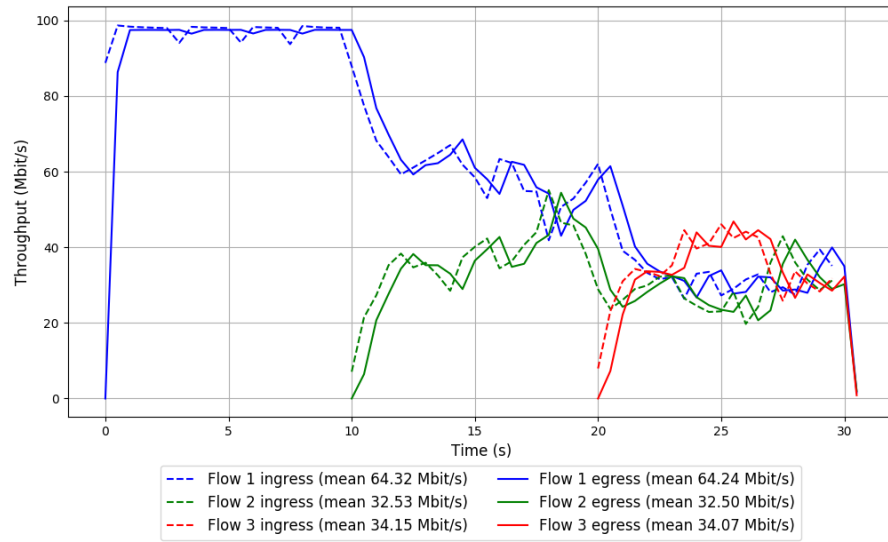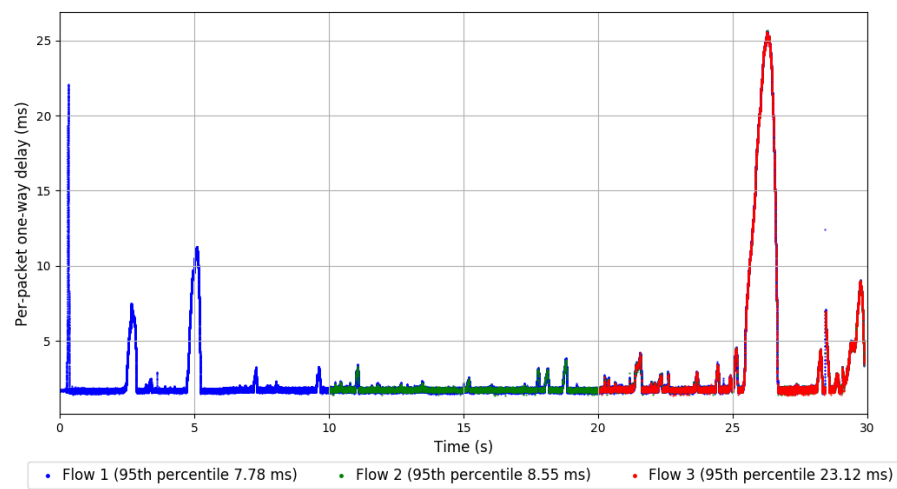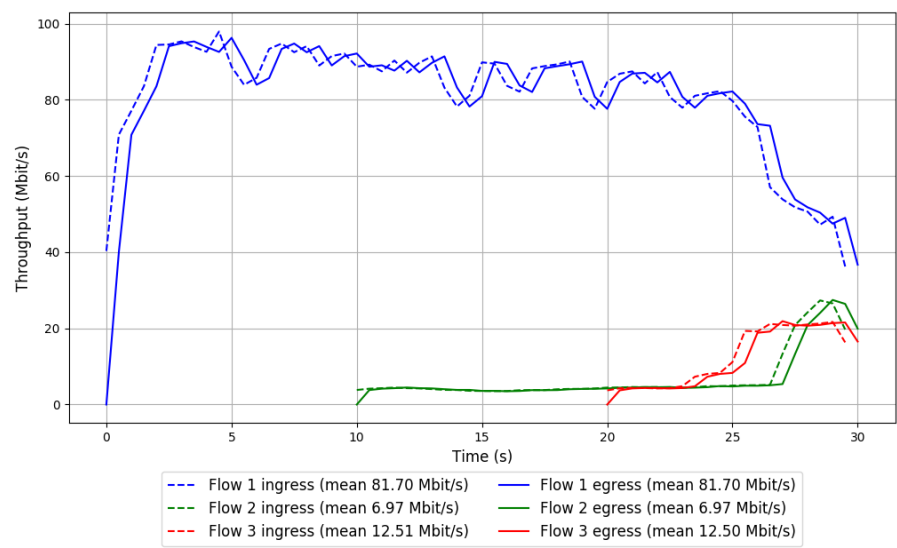
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2019-02-11 18:50:54
End at: 2019-02-11 18:51:24
Local clock offset: -2.067 ms
Remote clock offset: 0.151 ms


# Below is generated by plot.py at 2019-02-11 19:25:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 32.871 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.96 Mbit/s
95th percentile per-packet one-way delay: 32.895 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 32.910 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 25.63 Mbit/s
95th percentile per-packet one-way delay: 31.622 ms
Loss rate: 0.21%
```
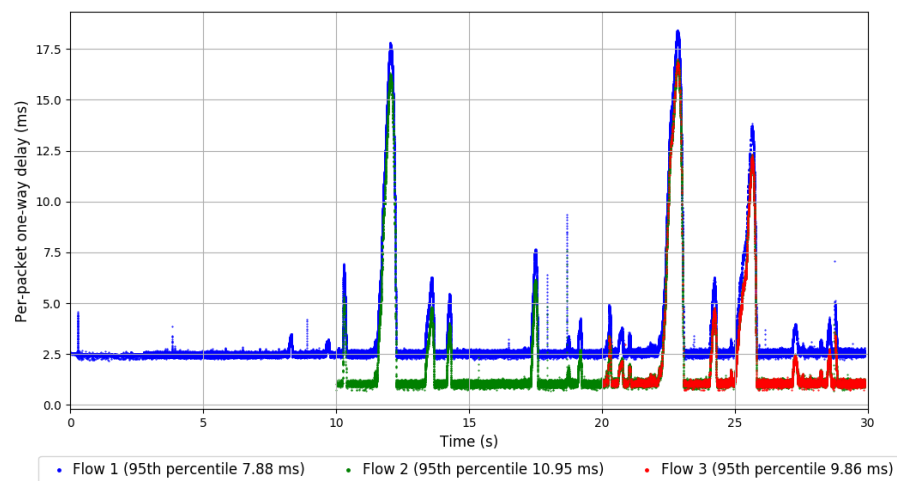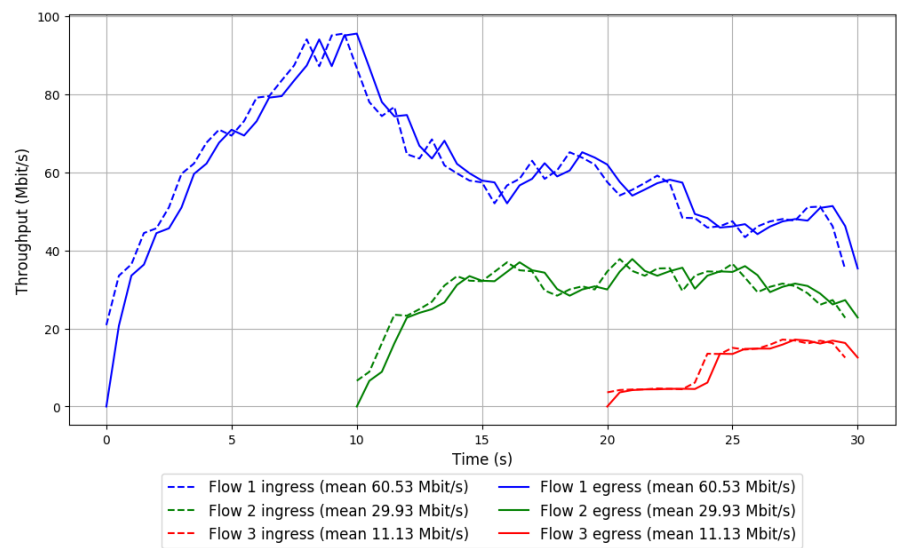
Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 63.03 Mbit/s)   Flow 1 egress (mean 62.96 Mbit/s)
Flow 2 ingress (mean 38.65 Mbit/s)   Flow 2 egress (mean 38.64 Mbit/s)
Flow 3 ingress (mean 25.71 Mbit/s)   Flow 3 egress (mean 25.63 Mbit/s)

Flow 1 (95th percentile 32.90 ms)   Flow 2 (95th percentile 32.91 ms)   Flow 3 (95th percentile 31.62 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2019-02-11 19:14:51
End at: 2019-02-11 19:15:21
Local clock offset: -1.243 ms
Remote clock offset: 0.175 ms


# Below is generated by plot.py at 2019-02-11 19:25:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.20 Mbit/s
95th percentile per-packet one-way delay: 31.636 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 64.24 Mbit/s
95th percentile per-packet one-way delay: 31.909 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 30.620 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 34.07 Mbit/s
95th percentile per-packet one-way delay: 30.743 ms
Loss rate: 0.11%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 64.32 Mbit/s) --- Flow 1 egress (mean 64.24 Mbit/s)
Flow 2 ingress (mean 32.53 Mbit/s) --- Flow 2 egress (mean 32.50 Mbit/s)
Flow 3 ingress (mean 34.15 Mbit/s) --- Flow 3 egress (mean 34.07 Mbit/s)

Flow 1 (95th percentile 31.91 ms) · Flow 2 (95th percentile 30.62 ms) · Flow 3 (95th percentile 30.74 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2019-02-11 17:33:25
End at: 2019-02-11 17:33:55
Local clock offset: -0.738 ms
Remote clock offset: -0.387 ms


# Below is generated by plot.py at 2019-02-11 19:26:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.46 Mbit/s
95th percentile per-packet one-way delay: 8.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.70 Mbit/s
95th percentile per-packet one-way delay: 7.775 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 8.554 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 23.117 ms
Loss rate: 0.00%
```
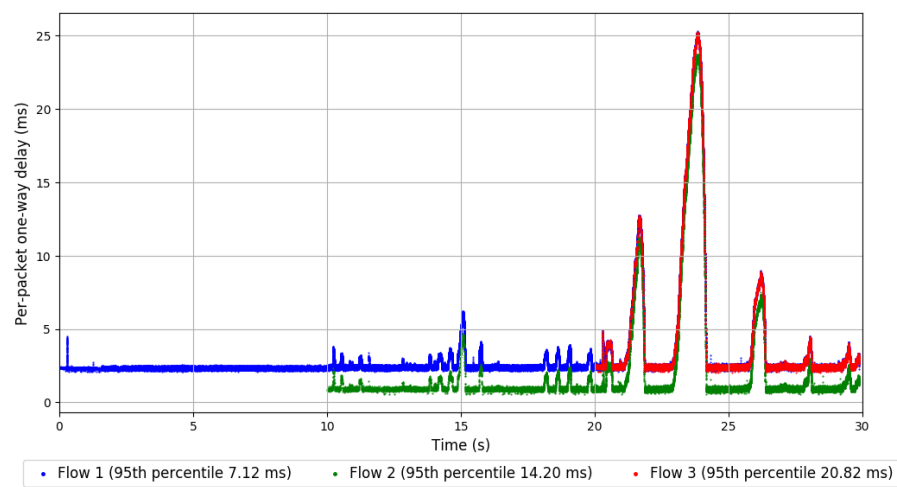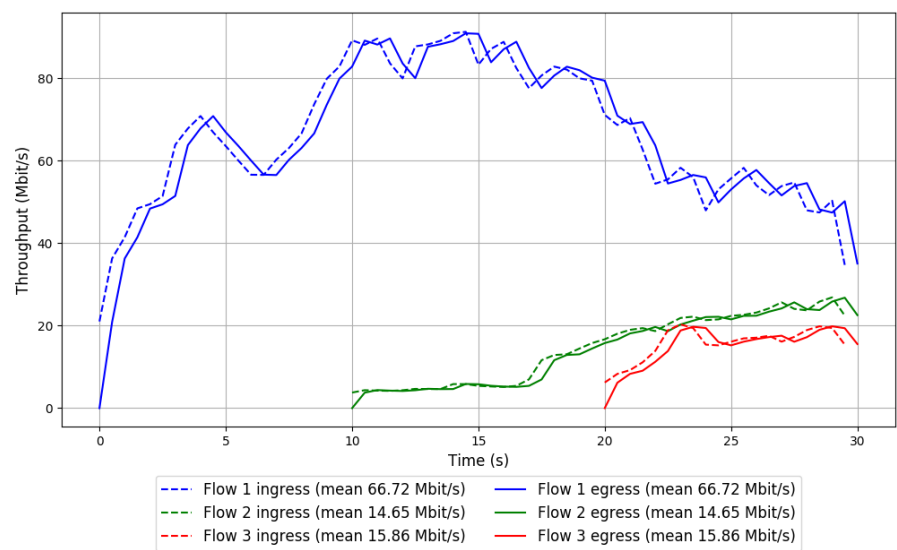
Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2019-02-11 17:57:21
End at: 2019-02-11 17:57:51
Local clock offset: -0.902 ms
Remote clock offset: -0.169 ms


# Below is generated by plot.py at 2019-02-11 19:26:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.10 Mbit/s
95th percentile per-packet one-way delay: 9.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.53 Mbit/s
95th percentile per-packet one-way delay: 7.877 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.93 Mbit/s
95th percentile per-packet one-way delay: 10.948 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 9.855 ms
Loss rate: 0.00%
```
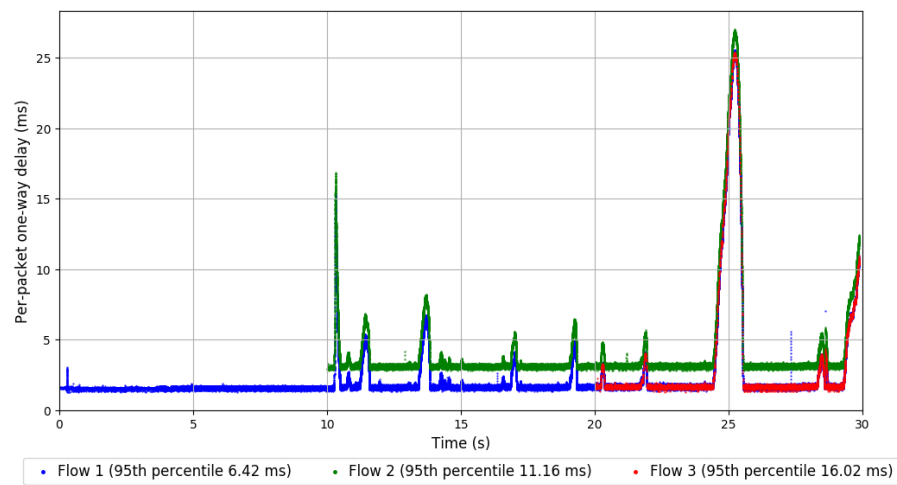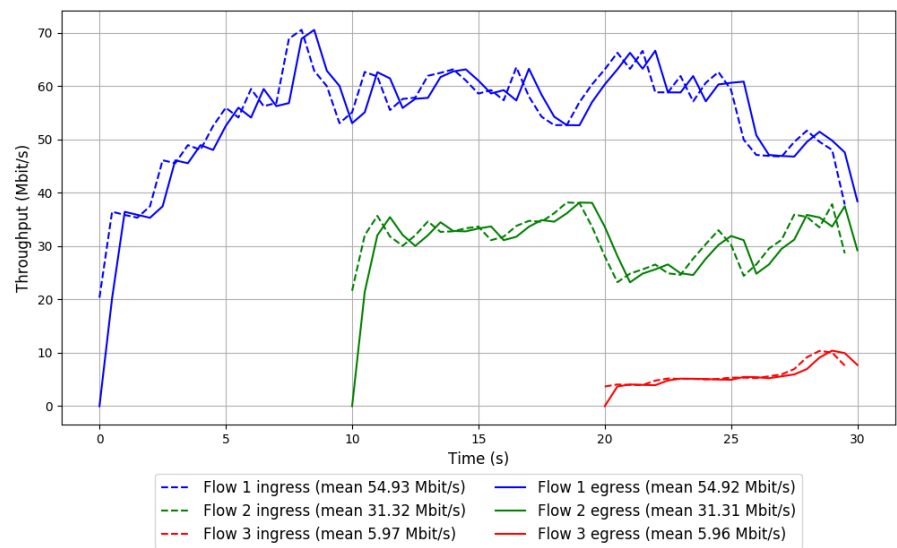
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2019-02-11 18:21:17
End at: 2019-02-11 18:21:47
Local clock offset: -2.772 ms
Remote clock offset: 0.035 ms


# Below is generated by plot.py at 2019-02-11 19:26:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.69 Mbit/s
95th percentile per-packet one-way delay: 8.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.72 Mbit/s
95th percentile per-packet one-way delay: 7.124 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.65 Mbit/s
95th percentile per-packet one-way delay: 14.196 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.86 Mbit/s
95th percentile per-packet one-way delay: 20.824 ms
Loss rate: 0.00%
```
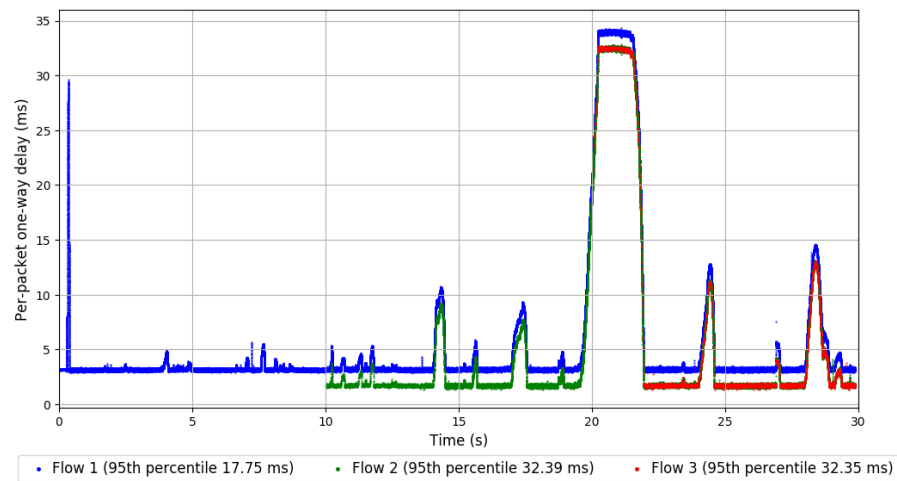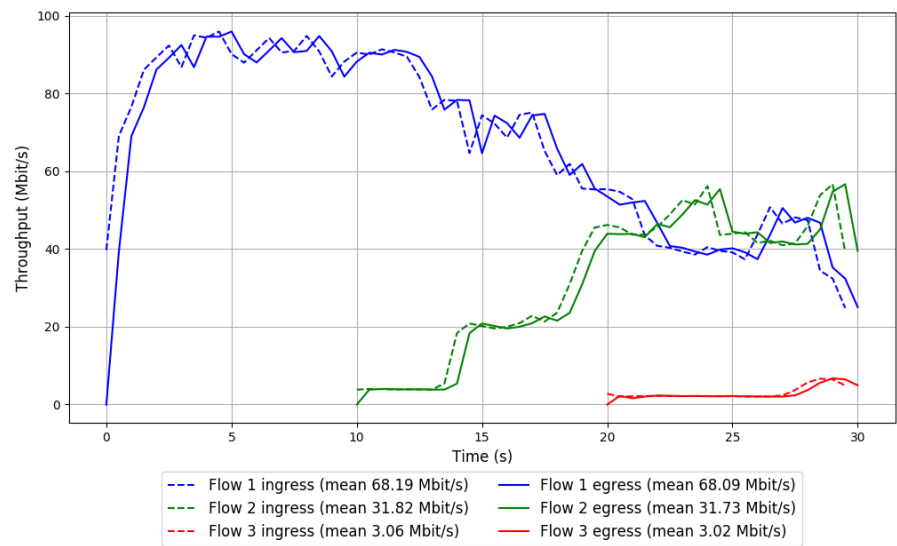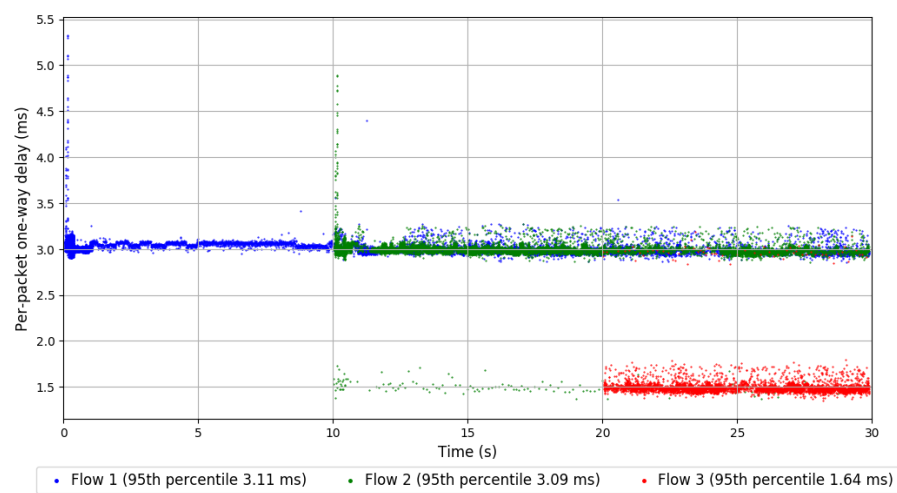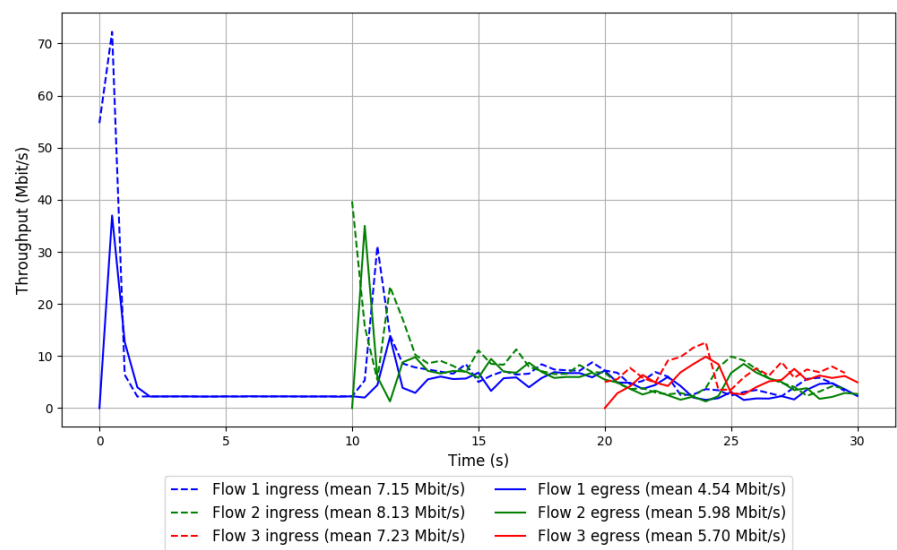
Run 3: Report of PCC-Allegro — Data Link

```
Run 4: Statistics of PCC-Allegro

Start at: 2019-02-11 18:45:12
End at: 2019-02-11 18:45:42
Local clock offset: -2.409 ms
Remote clock offset: 0.043 ms


# Below is generated by plot.py at 2019-02-11 19:26:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.70 Mbit/s
95th percentile per-packet one-way delay: 8.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.92 Mbit/s
95th percentile per-packet one-way delay: 6.420 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.31 Mbit/s
95th percentile per-packet one-way delay: 11.162 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 16.022 ms
Loss rate: 0.00%
```

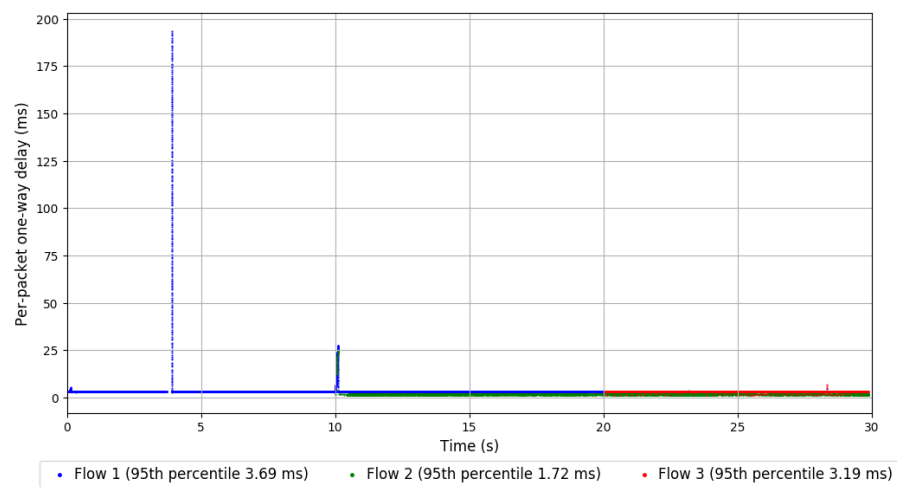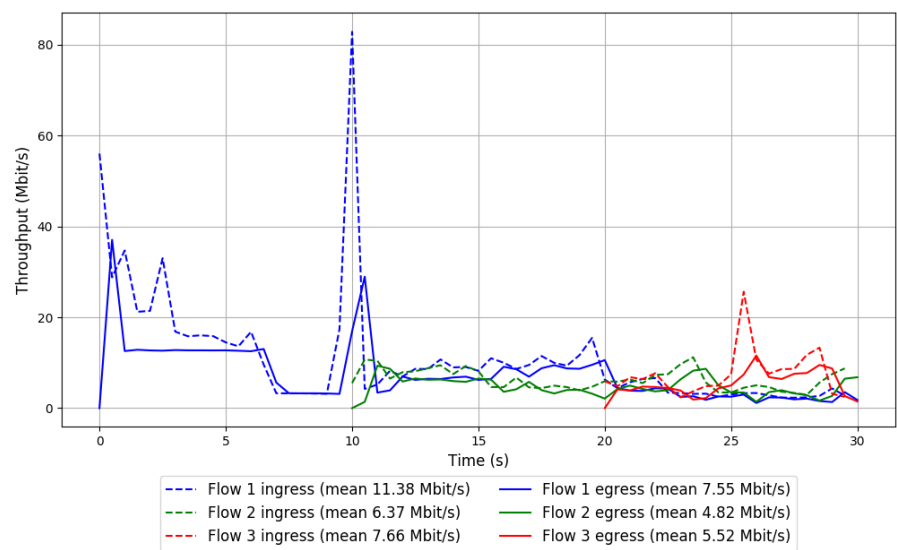Run 4: Report of PCC-Allegro — Data Link

```
Run 5: Statistics of PCC-Allegro

Start at: 2019-02-11 19:09:09
End at: 2019-02-11 19:09:39
Local clock offset: -1.884 ms
Remote clock offset: 0.183 ms


# Below is generated by plot.py at 2019-02-11 19:26:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.18 Mbit/s
95th percentile per-packet one-way delay: 30.423 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 68.09 Mbit/s
95th percentile per-packet one-way delay: 17.749 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 32.388 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 32.355 ms
Loss rate: 1.50%
```

Run 5: Report of PCC-Allegro — Data Link

- - - Flow 1 ingress (mean 68.19 Mbit/s) —— Flow 1 egress (mean 68.09 Mbit/s)
- - - Flow 2 ingress (mean 31.82 Mbit/s) —— Flow 2 egress (mean 31.73 Mbit/s)
- - - Flow 3 ingress (mean 3.06 Mbit/s) —— Flow 3 egress (mean 3.02 Mbit/s)

• Flow 1 (95th percentile 17.75 ms)   • Flow 2 (95th percentile 32.39 ms)   • Flow 3 (95th percentile 32.35 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2019-02-11 17:36:51
End at: 2019-02-11 17:37:21
Local clock offset: -1.018 ms
Remote clock offset: -0.399 ms


# Below is generated by plot.py at 2019-02-11 19:26:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 3.090 ms
Loss rate: 30.36%
-- Flow 1:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 3.113 ms
Loss rate: 36.42%
-- Flow 2:
Average throughput: 5.98 Mbit/s
95th percentile per-packet one-way delay: 3.091 ms
Loss rate: 26.40%
-- Flow 3:
Average throughput: 5.70 Mbit/s
95th percentile per-packet one-way delay: 1.642 ms
Loss rate: 21.22%
```
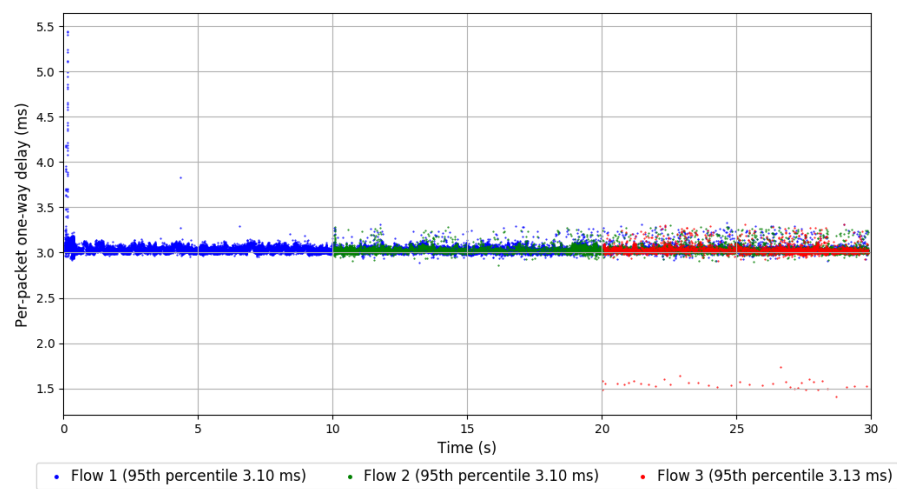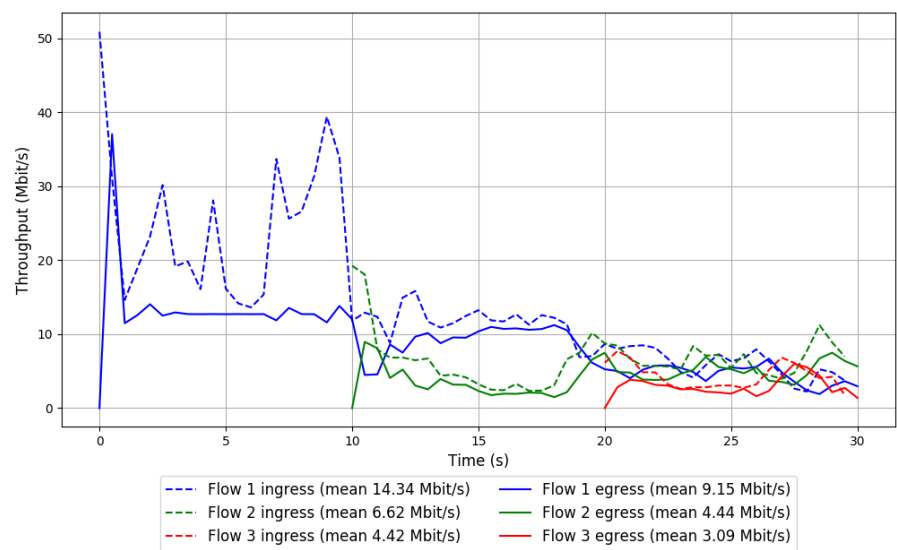
Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2019-02-11 18:00:47
End at: 2019-02-11 18:01:17
Local clock offset: -1.539 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-02-11 19:26:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 3.214 ms
Loss rate: 30.71%
-- Flow 1:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 3.695 ms
Loss rate: 33.70%
-- Flow 2:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 1.720 ms
Loss rate: 24.30%
-- Flow 3:
Average throughput: 5.52 Mbit/s
95th percentile per-packet one-way delay: 3.187 ms
Loss rate: 27.96%
```
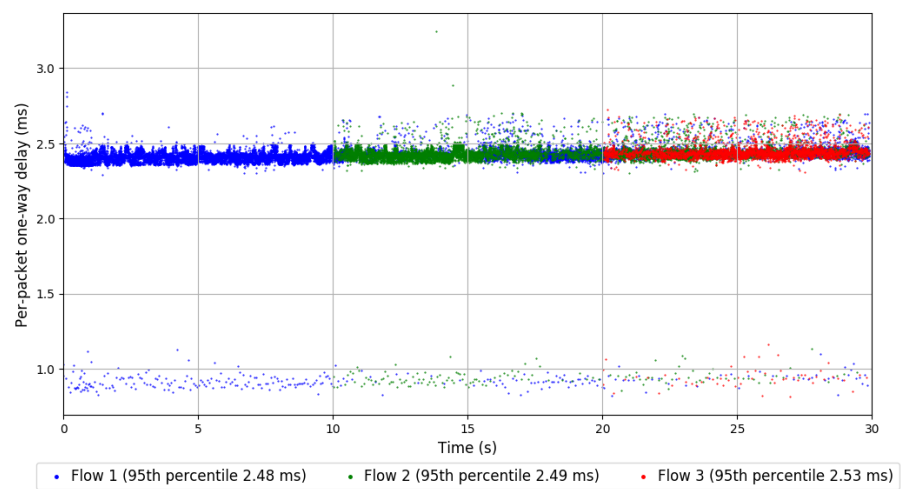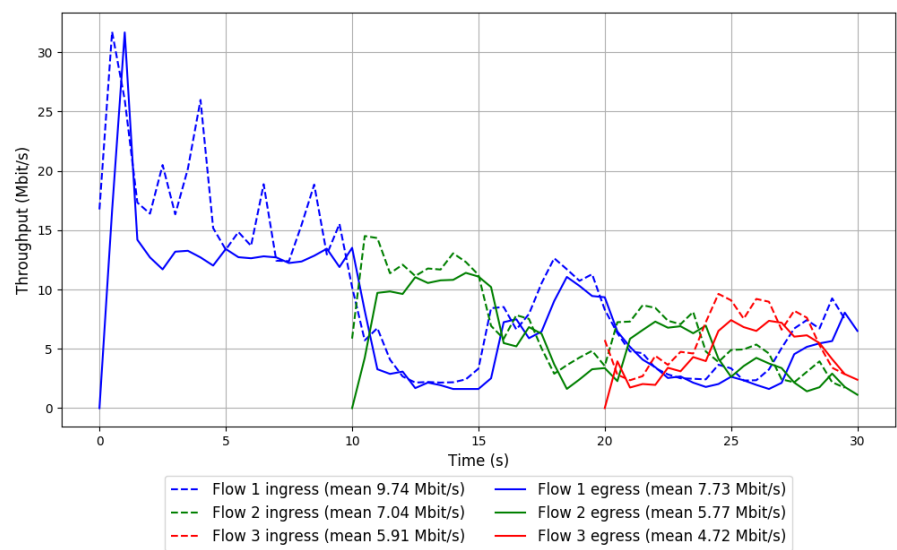
Run 2: Report of PCC-Expr — Data Link

```
Run 3: Statistics of PCC-Expr

Start at: 2019-02-11 18:24:42
End at: 2019-02-11 18:25:12
Local clock offset: -3.654 ms
Remote clock offset: 0.002 ms


# Below is generated by plot.py at 2019-02-11 19:26:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 3.103 ms
Loss rate: 35.04%
-- Flow 1:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 3.102 ms
Loss rate: 36.22%
-- Flow 2:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 3.104 ms
Loss rate: 32.87%
-- Flow 3:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 3.131 ms
Loss rate: 29.99%
```
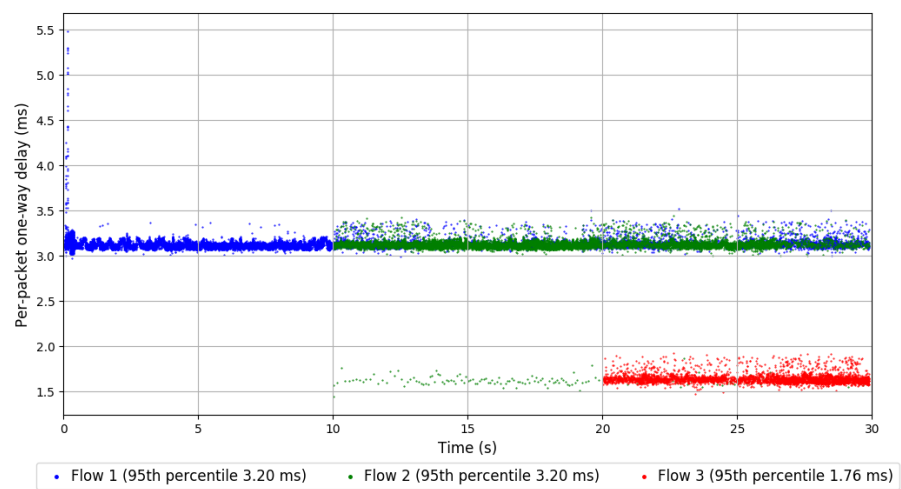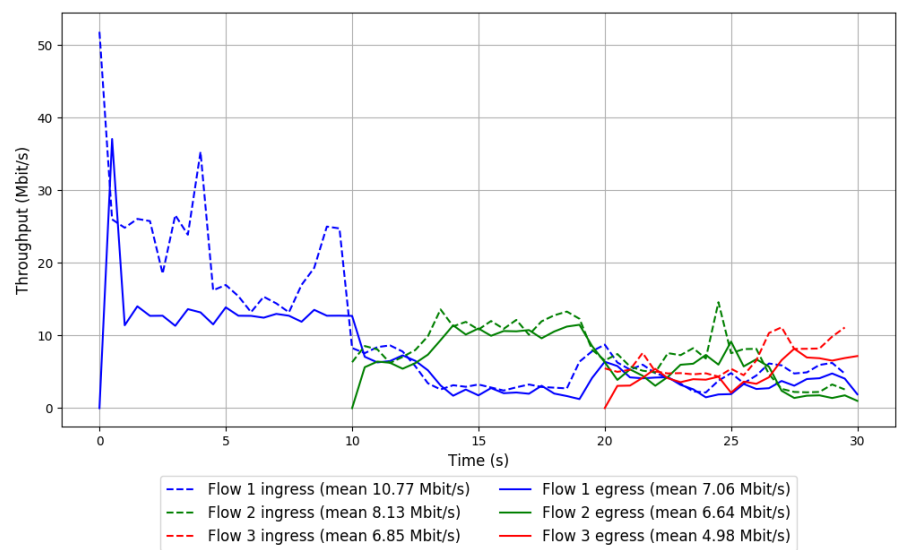
Run 3: Report of PCC-Expr — Data Link

```
Run 4: Statistics of PCC-Expr

Start at: 2019-02-11 18:48:37
End at: 2019-02-11 18:49:07
Local clock offset: -1.464 ms
Remote clock offset: 0.144 ms


# Below is generated by plot.py at 2019-02-11 19:26:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 2.485 ms
Loss rate: 19.85%
-- Flow 1:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 2.476 ms
Loss rate: 20.66%
-- Flow 2:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 2.494 ms
Loss rate: 18.09%
-- Flow 3:
Average throughput: 4.72 Mbit/s
95th percentile per-packet one-way delay: 2.534 ms
Loss rate: 20.05%
```
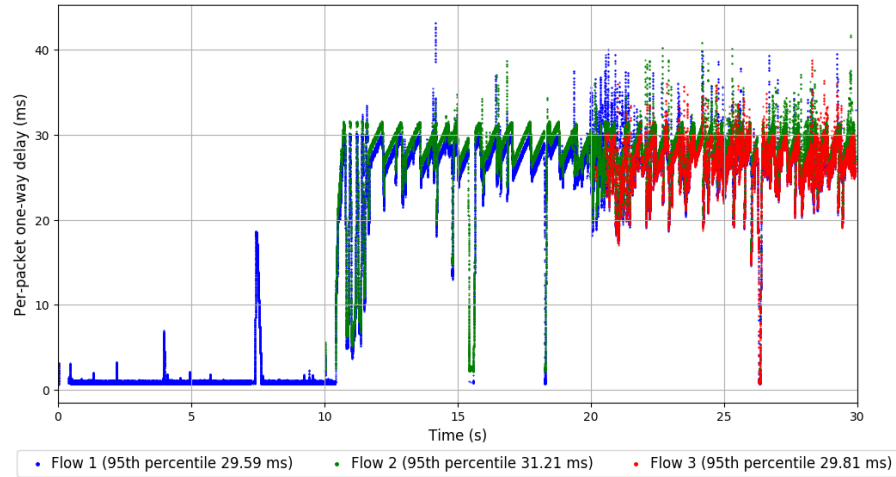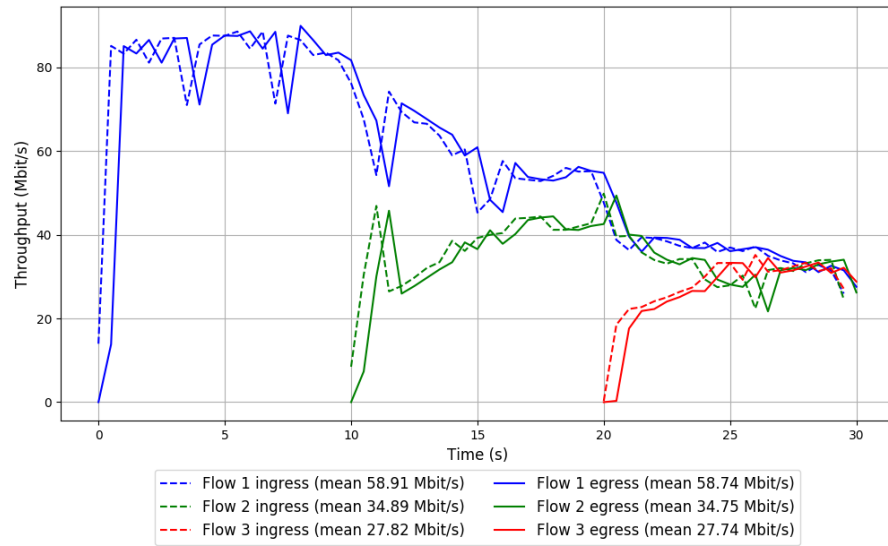
Run 4: Report of PCC-Expr — Data Link

```
Run 5: Statistics of PCC-Expr

Start at: 2019-02-11 19:12:35
End at: 2019-02-11 19:13:05
Local clock offset: -1.968 ms
Remote clock offset: 0.177 ms


# Below is generated by plot.py at 2019-02-11 19:26:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 3.195 ms
Loss rate: 28.82%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 3.203 ms
Loss rate: 34.40%
-- Flow 2:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 3.196 ms
Loss rate: 18.33%
-- Flow 3:
Average throughput: 4.98 Mbit/s
95th percentile per-packet one-way delay: 1.762 ms
Loss rate: 27.33%
```

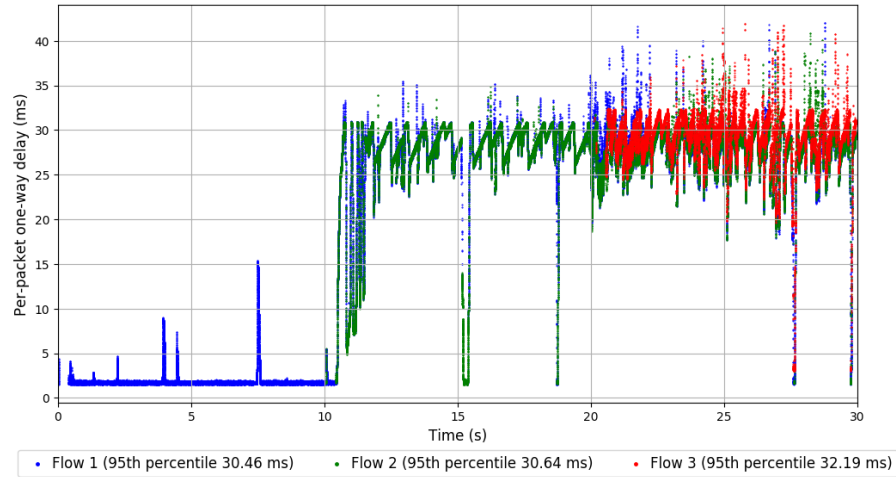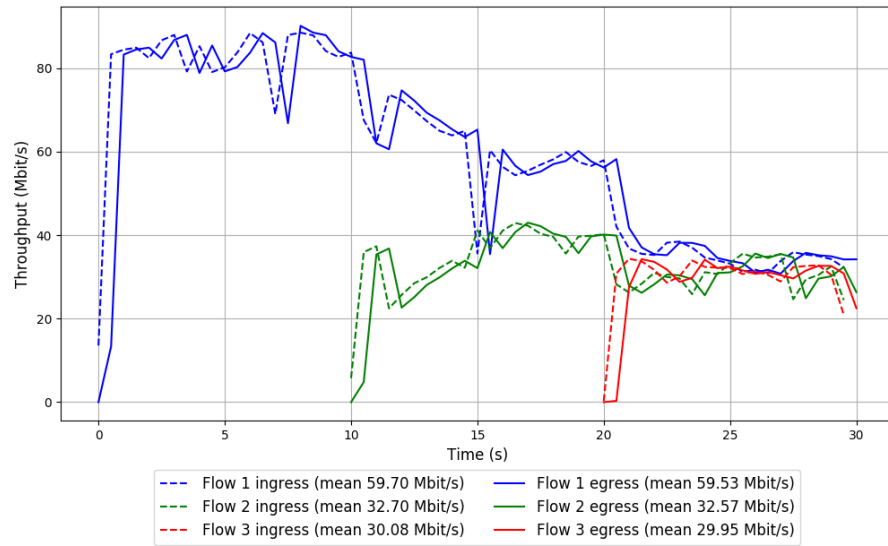## Run 5: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2019-02-11 17:27:42
End at: 2019-02-11 17:28:12
Local clock offset: -0.199 ms
Remote clock offset: -0.441 ms


# Below is generated by plot.py at 2019-02-11 19:27:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 30.585 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 58.74 Mbit/s
95th percentile per-packet one-way delay: 29.592 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 31.208 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 27.74 Mbit/s
95th percentile per-packet one-way delay: 29.814 ms
Loss rate: 0.29%
```
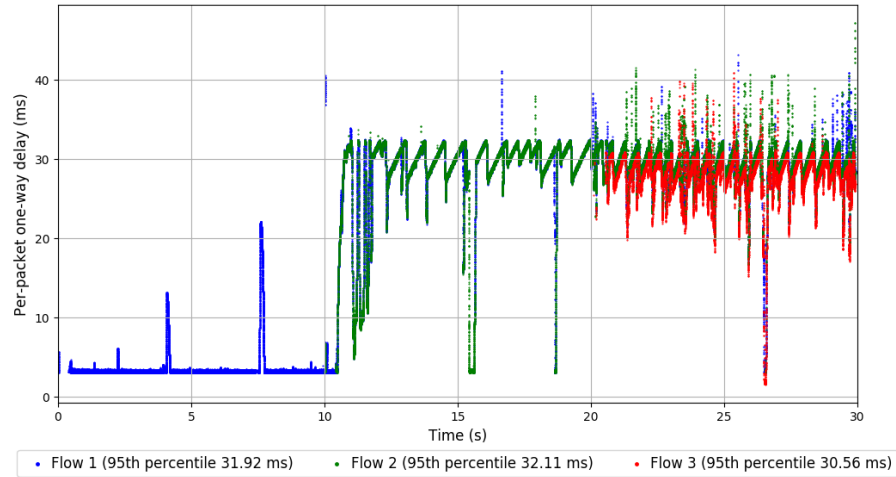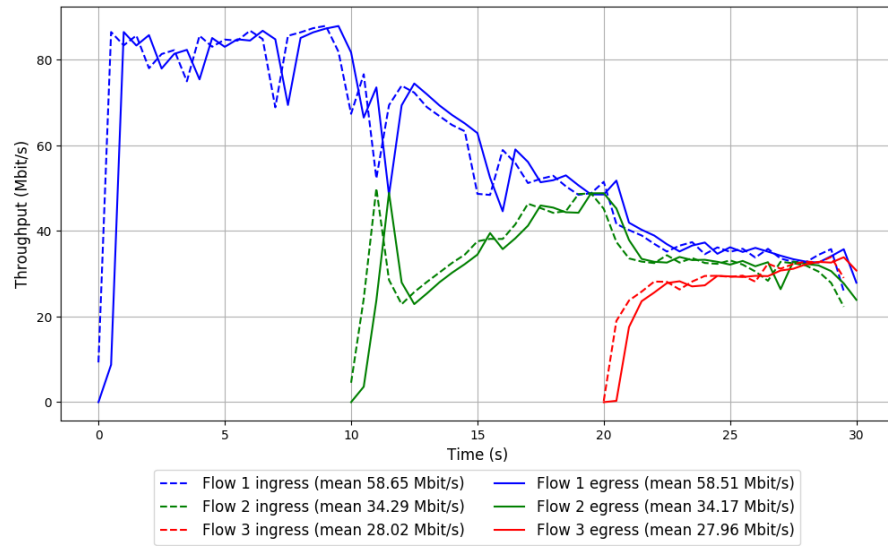
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2019-02-11 17:51:38
End at: 2019-02-11 17:52:08
Local clock offset: -1.632 ms
Remote clock offset: -0.206 ms


# Below is generated by plot.py at 2019-02-11 19:27:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 30.717 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 59.53 Mbit/s
95th percentile per-packet one-way delay: 30.462 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 30.636 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 32.194 ms
Loss rate: 0.42%
```

Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2019-02-11 18:15:34
End at: 2019-02-11 18:16:04
Local clock offset: -3.254 ms
Remote clock offset: -0.012 ms


# Below is generated by plot.py at 2019-02-11 19:27:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 31.966 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 58.51 Mbit/s
95th percentile per-packet one-way delay: 31.922 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 32.112 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 30.564 ms
Loss rate: 0.21%
```
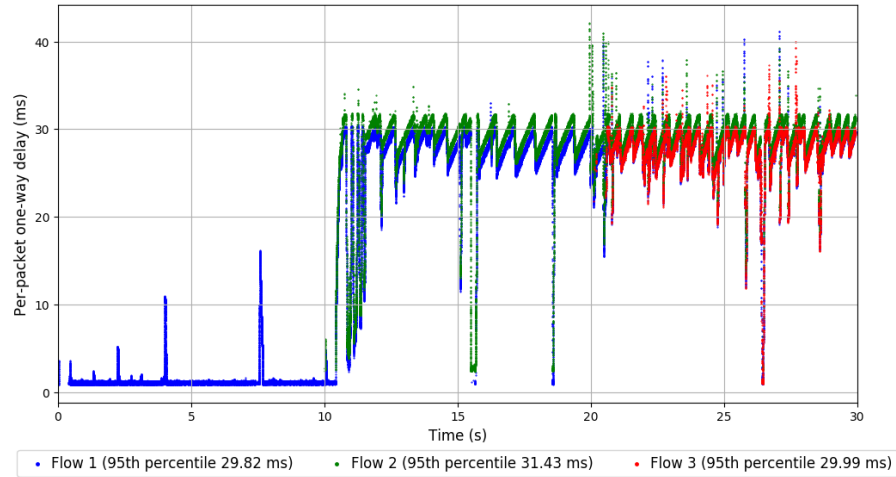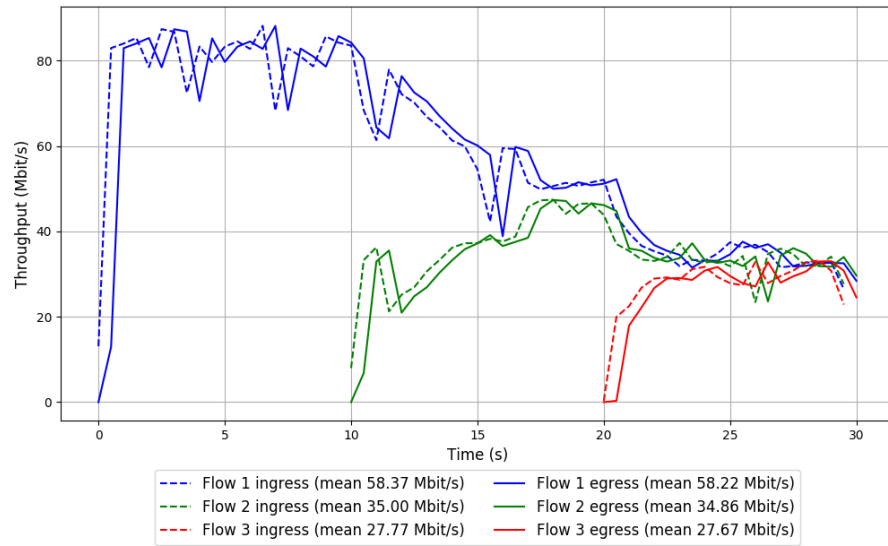
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 58.65 Mbit/s) --- Flow 1 egress (mean 58.51 Mbit/s)
Flow 2 ingress (mean 34.29 Mbit/s) --- Flow 2 egress (mean 34.17 Mbit/s)
Flow 3 ingress (mean 28.02 Mbit/s) --- Flow 3 egress (mean 27.96 Mbit/s)

Flow 1 (95th percentile 31.92 ms)   Flow 2 (95th percentile 32.11 ms)   Flow 3 (95th percentile 30.56 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2019-02-11 18:39:29
End at: 2019-02-11 18:39:59
Local clock offset: -2.293 ms
Remote clock offset: 0.119 ms


# Below is generated by plot.py at 2019-02-11 19:27:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.48 Mbit/s
95th percentile per-packet one-way delay: 30.883 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 58.22 Mbit/s
95th percentile per-packet one-way delay: 29.815 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 31.430 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 27.67 Mbit/s
95th percentile per-packet one-way delay: 29.988 ms
Loss rate: 0.28%
```
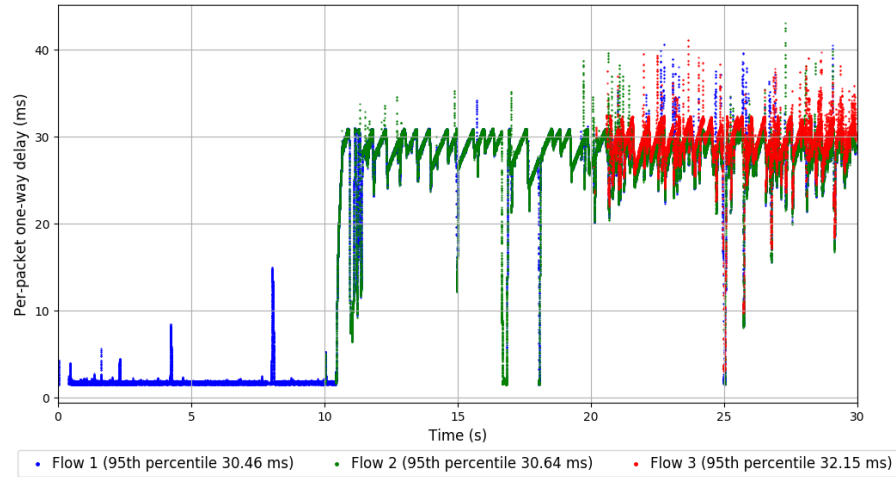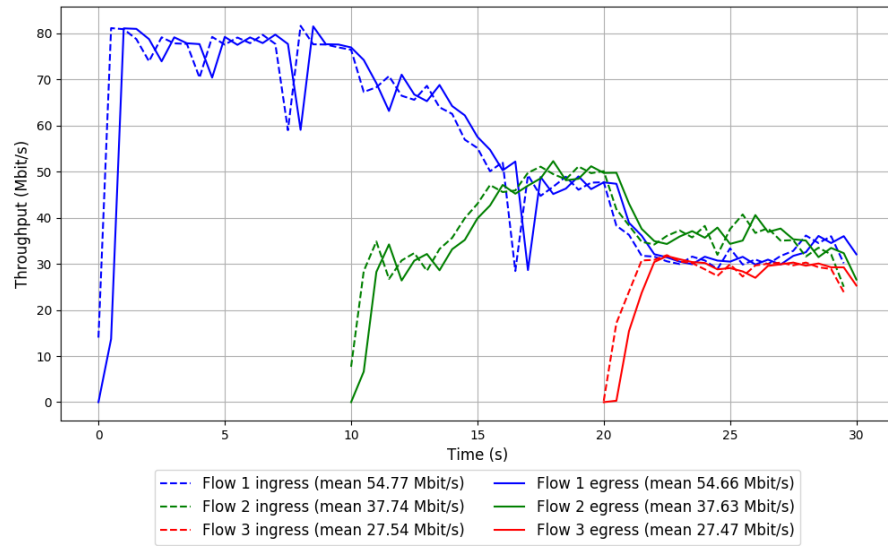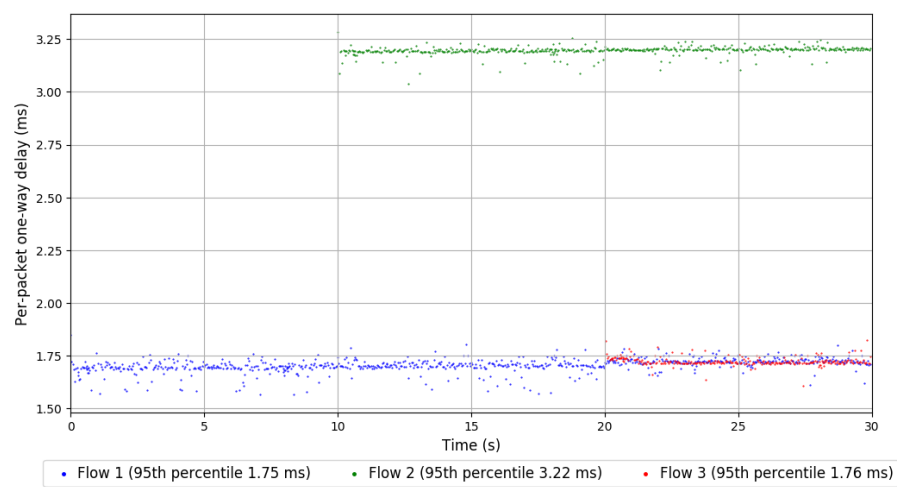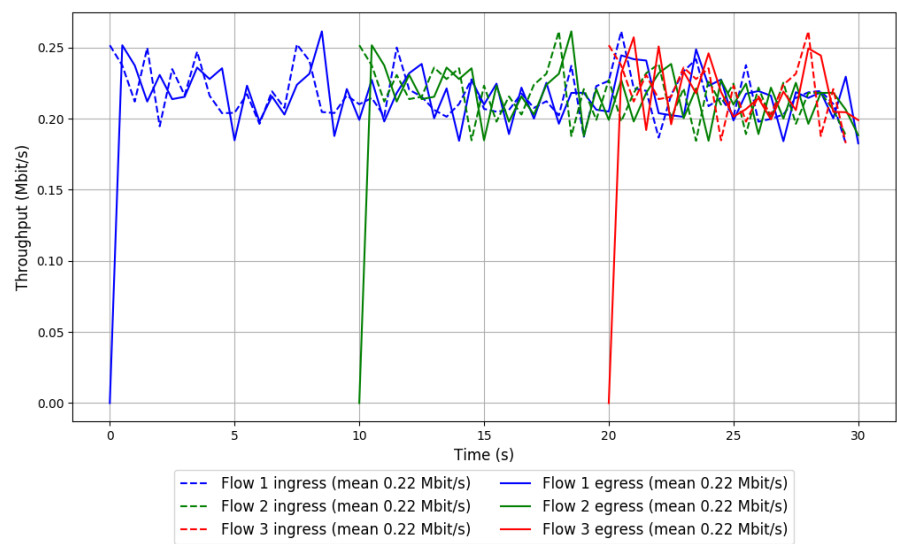
Run 4: Report of QUIC Cubic — Data Link

- - - - Flow 1 ingress (mean 58.37 Mbit/s) ——— Flow 1 egress (mean 58.22 Mbit/s)
- - - - Flow 2 ingress (mean 35.00 Mbit/s) ——— Flow 2 egress (mean 34.86 Mbit/s)
- - - - Flow 3 ingress (mean 27.77 Mbit/s) ——— Flow 3 egress (mean 27.67 Mbit/s)

- Flow 1 (95th percentile 29.82 ms)   - Flow 2 (95th percentile 31.43 ms)   - Flow 3 (95th percentile 29.99 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2019-02-11 19:03:25
End at: 2019-02-11 19:03:55
Local clock offset: -1.665 ms
Remote clock offset: 0.191 ms


# Below is generated by plot.py at 2019-02-11 19:27:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.73 Mbit/s
95th percentile per-packet one-way delay: 30.697 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 54.66 Mbit/s
95th percentile per-packet one-way delay: 30.463 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 30.636 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 27.47 Mbit/s
95th percentile per-packet one-way delay: 32.152 ms
Loss rate: 0.24%
```

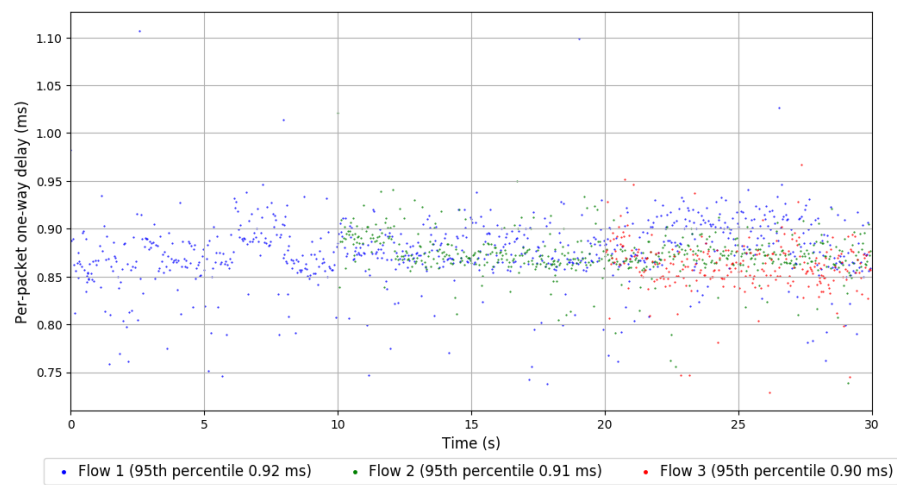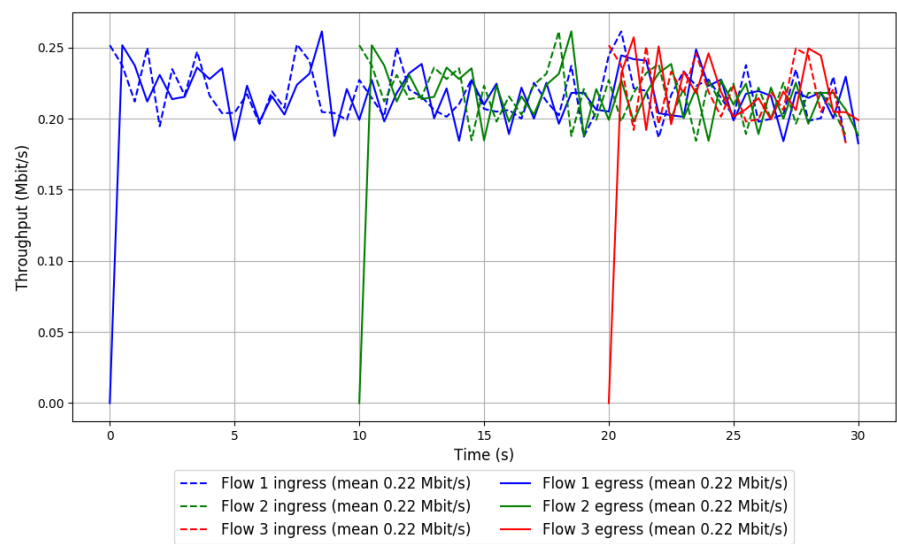## Run 5: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2019-02-11 17:23:09
End at: 2019-02-11 17:23:39
Local clock offset: -1.141 ms
Remote clock offset: -0.395 ms


# Below is generated by plot.py at 2019-02-11 19:27:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.749 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.221 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.762 ms
Loss rate: 0.00%
```
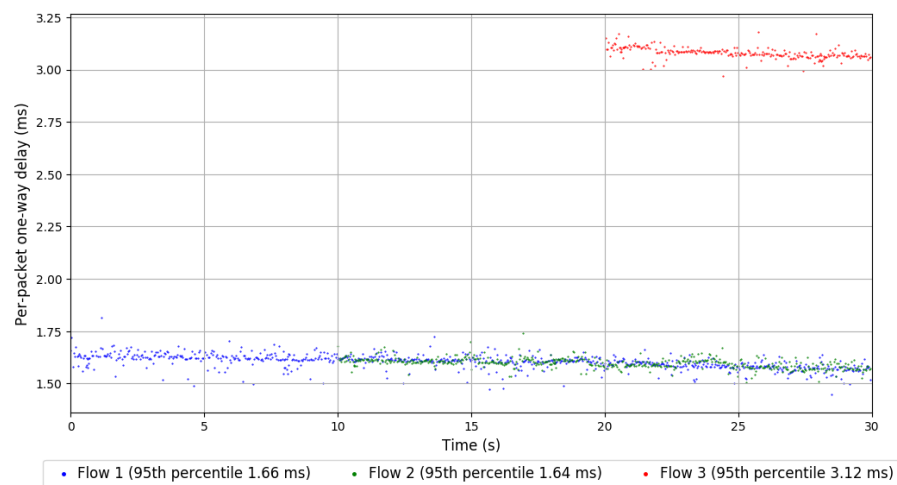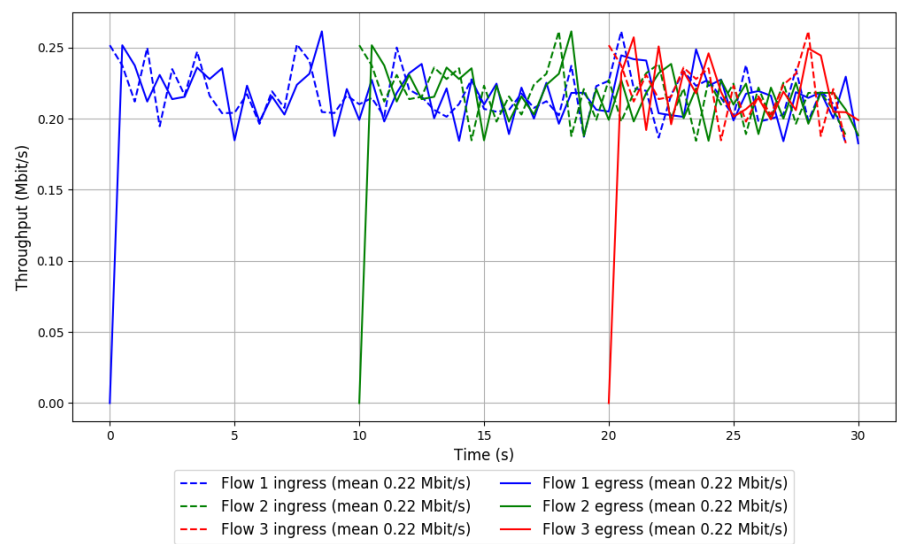
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2019-02-11 17:47:05
End at: 2019-02-11 17:47:35
Local clock offset: -0.843 ms
Remote clock offset: -0.295 ms


# Below is generated by plot.py at 2019-02-11 19:27:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 0.917 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.922 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.908 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.896 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2019-02-11 18:11:01
End at: 2019-02-11 18:11:31
Local clock offset: -2.748 ms
Remote clock offset: -0.037 ms


# Below is generated by plot.py at 2019-02-11 19:27:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.655 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.638 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.120 ms
Loss rate: 0.00%
```
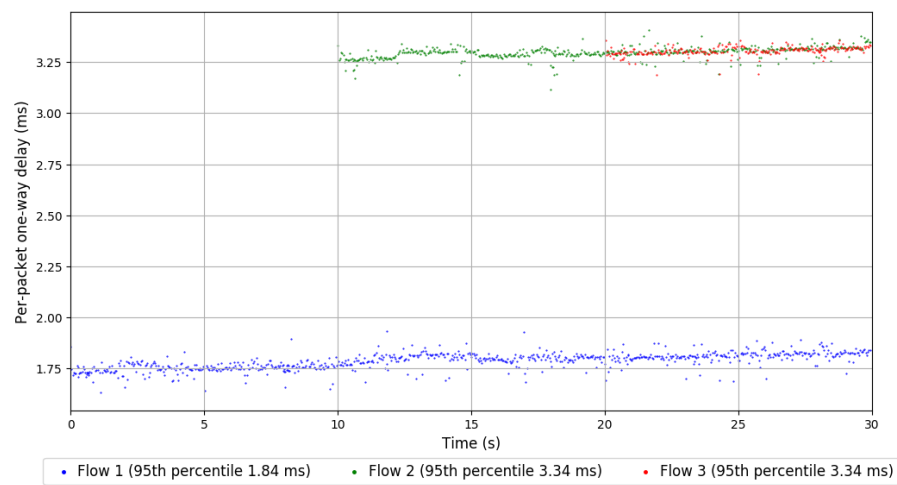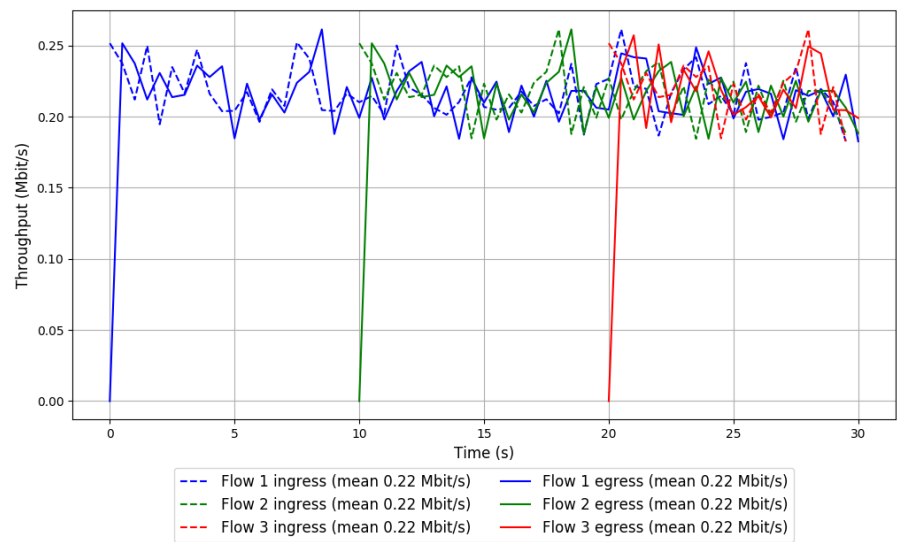
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2019-02-11 18:34:56
End at: 2019-02-11 18:35:27
Local clock offset: -3.767 ms
Remote clock offset: 0.069 ms


# Below is generated by plot.py at 2019-02-11 19:27:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.841 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.340 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.338 ms
Loss rate: 0.00%
```
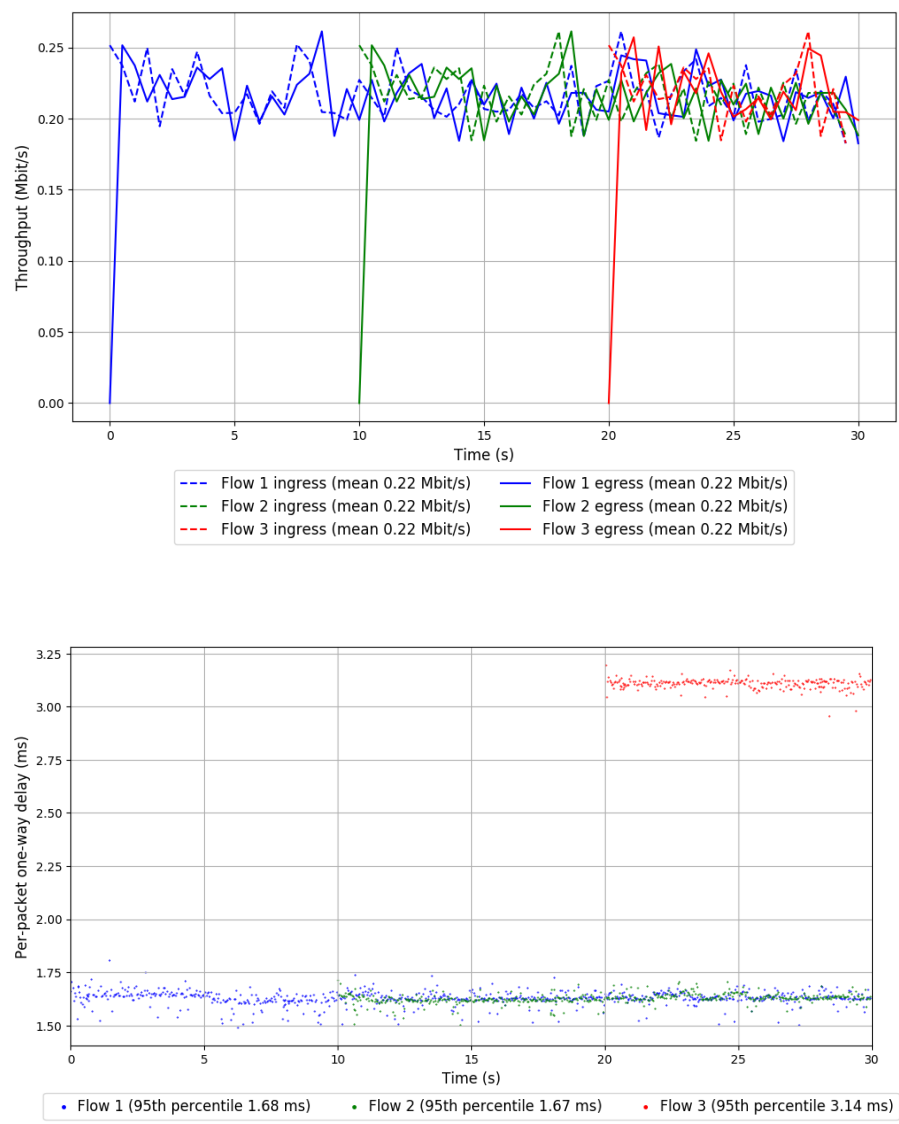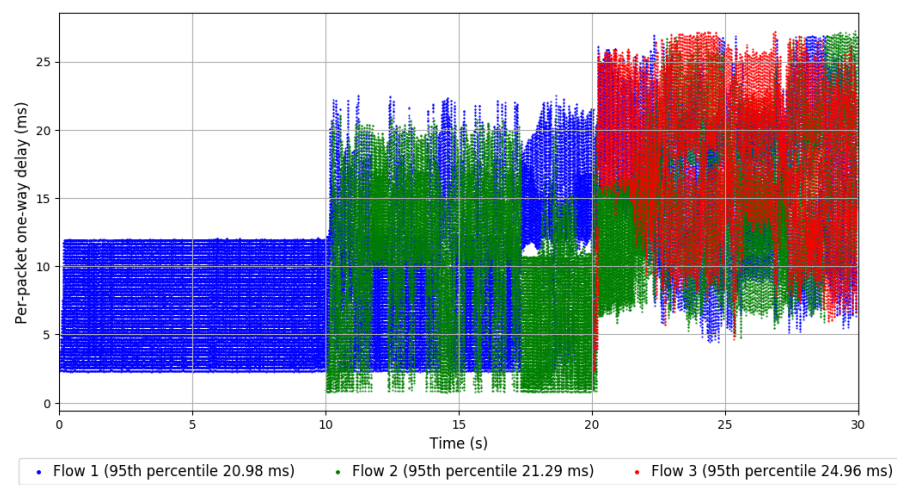
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2019-02-11 18:58:52
End at: 2019-02-11 18:59:22
Local clock offset: -1.793 ms
Remote clock offset: 0.077 ms


# Below is generated by plot.py at 2019-02-11 19:27:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 3.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.677 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.668 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.137 ms
Loss rate: 0.00%
```
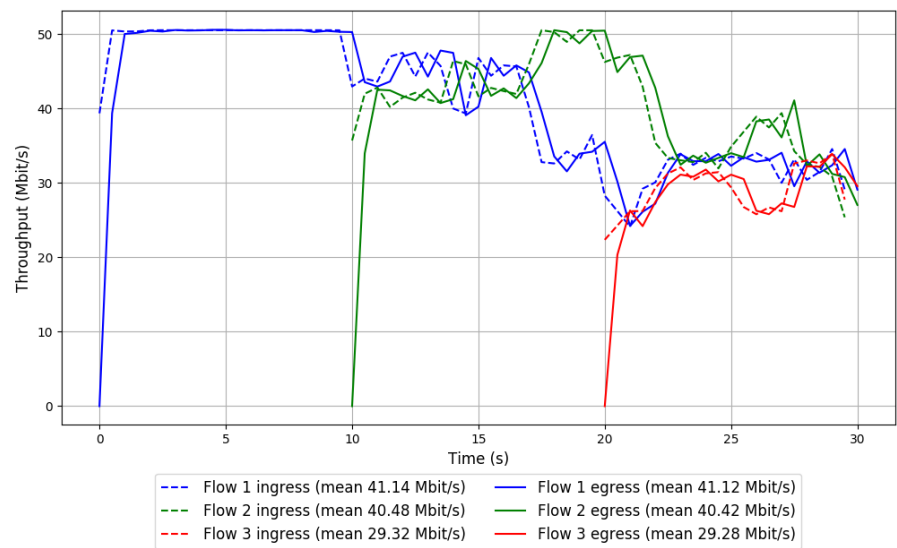
Run 5: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2019-02-11 17:25:25
End at: 2019-02-11 17:25:55
Local clock offset: -0.261 ms
Remote clock offset: -0.394 ms


# Below is generated by plot.py at 2019-02-11 19:27:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.69 Mbit/s
95th percentile per-packet one-way delay: 22.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.12 Mbit/s
95th percentile per-packet one-way delay: 20.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 21.294 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.28 Mbit/s
95th percentile per-packet one-way delay: 24.957 ms
Loss rate: 0.00%
```
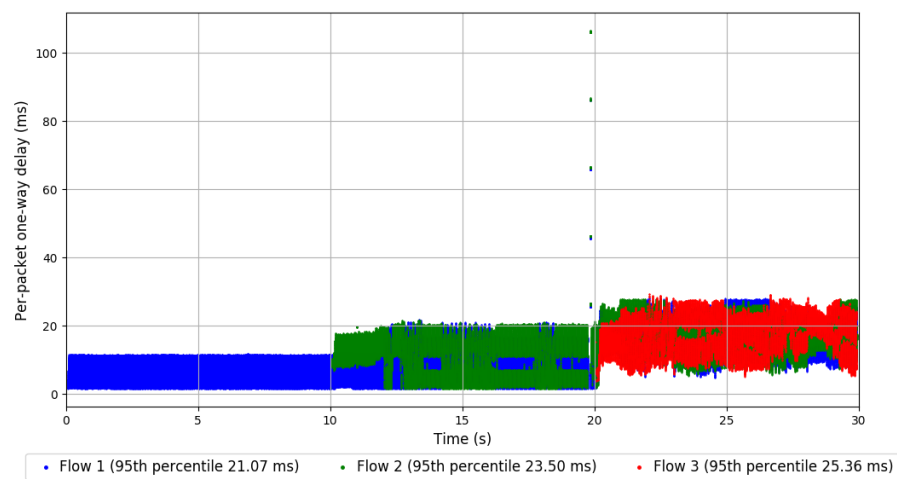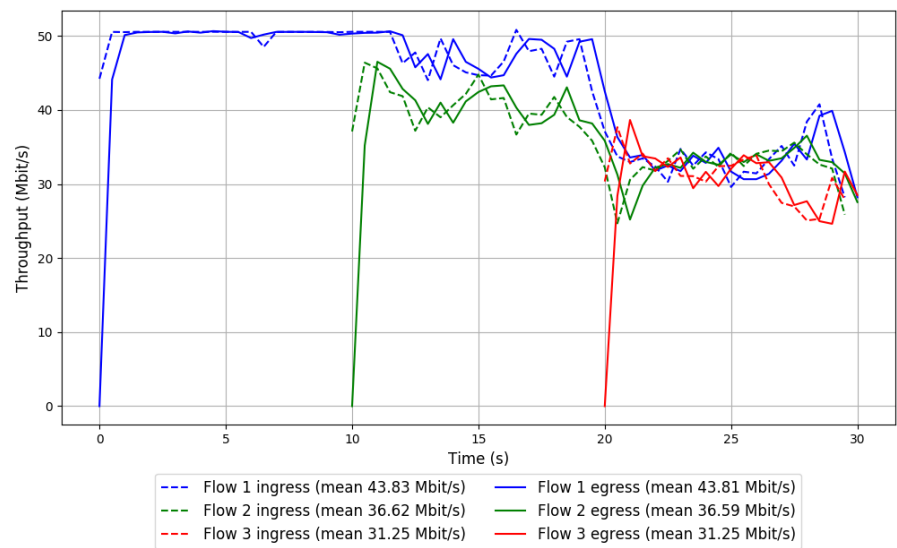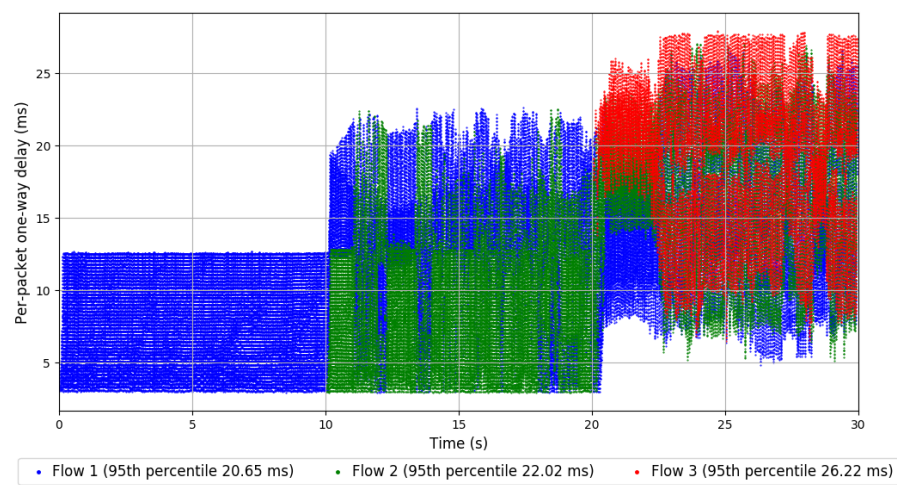
Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 41.14 Mbit/s)   Flow 1 egress (mean 41.12 Mbit/s)
Flow 2 ingress (mean 40.48 Mbit/s)   Flow 2 egress (mean 40.42 Mbit/s)
Flow 3 ingress (mean 29.32 Mbit/s)   Flow 3 egress (mean 29.28 Mbit/s)

Flow 1 (95th percentile 20.98 ms)   Flow 2 (95th percentile 21.29 ms)   Flow 3 (95th percentile 24.96 ms)

```
Run 2: Statistics of Sprout

Start at: 2019-02-11 17:49:21
End at: 2019-02-11 17:49:51
Local clock offset: -1.711 ms
Remote clock offset: -0.324 ms


# Below is generated by plot.py at 2019-02-11 19:27:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.47 Mbit/s
95th percentile per-packet one-way delay: 23.270 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 21.065 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 23.501 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 25.363 ms
Loss rate: 0.00%
```

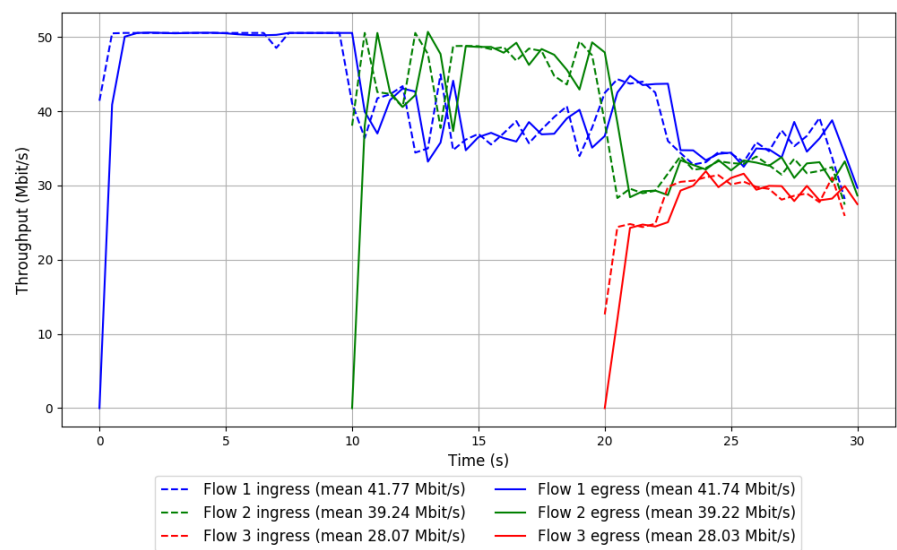## Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2019-02-11 18:13:17
End at: 2019-02-11 18:13:47
Local clock offset: -2.976 ms
Remote clock offset: -0.07 ms


# Below is generated by plot.py at 2019-02-11 19:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.08 Mbit/s
95th percentile per-packet one-way delay: 22.791 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.74 Mbit/s
95th percentile per-packet one-way delay: 20.654 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.22 Mbit/s
95th percentile per-packet one-way delay: 22.018 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.03 Mbit/s
95th percentile per-packet one-way delay: 26.224 ms
Loss rate: 0.00%
```
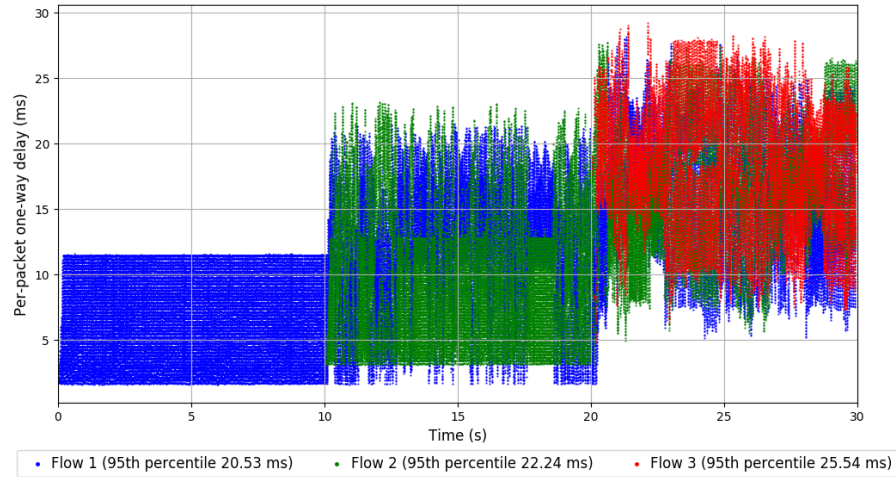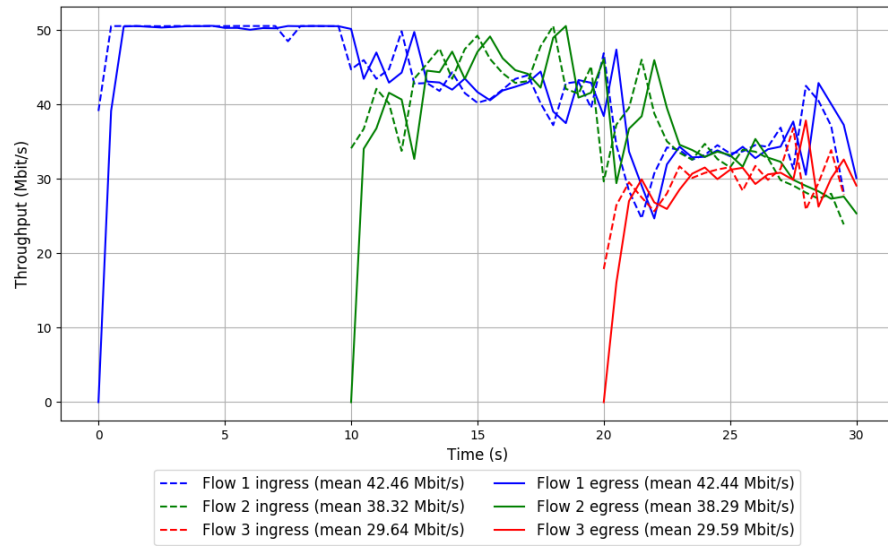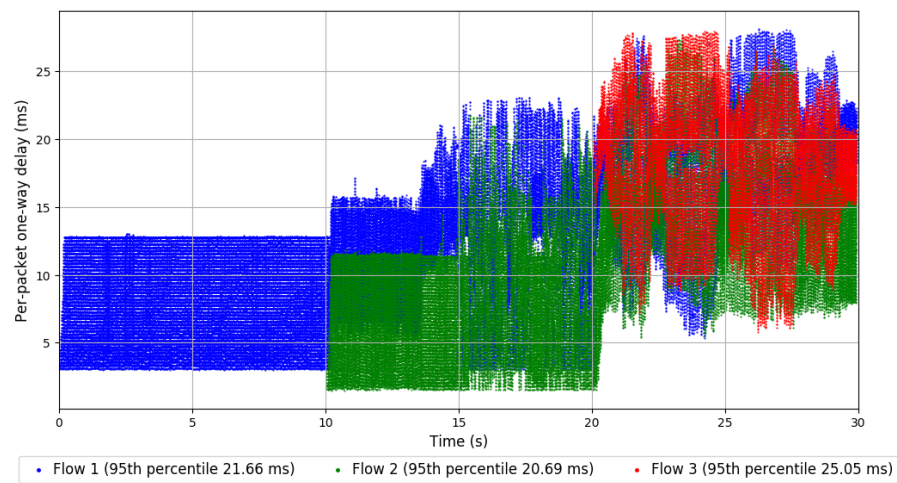
Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 41.77 Mbit/s) ---- Flow 1 egress (mean 41.74 Mbit/s)
Flow 2 ingress (mean 39.24 Mbit/s) ---- Flow 2 egress (mean 39.22 Mbit/s)
Flow 3 ingress (mean 28.07 Mbit/s) ---- Flow 3 egress (mean 28.03 Mbit/s)

Flow 1 (95th percentile 20.65 ms) Flow 2 (95th percentile 22.02 ms) Flow 3 (95th percentile 26.22 ms)

```
Run 4: Statistics of Sprout

Start at: 2019-02-11 18:37:12
End at: 2019-02-11 18:37:42
Local clock offset: -3.319 ms
Remote clock offset: 0.073 ms


# Below is generated by plot.py at 2019-02-11 19:28:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.67 Mbit/s
95th percentile per-packet one-way delay: 22.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 20.527 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 22.241 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.59 Mbit/s
95th percentile per-packet one-way delay: 25.540 ms
Loss rate: 0.00%
```

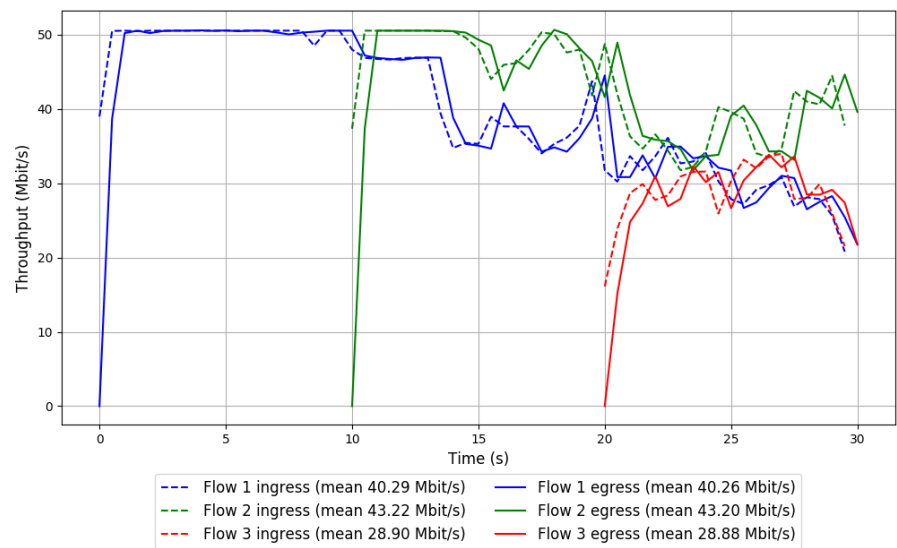Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2019-02-11 19:01:08
End at: 2019-02-11 19:01:38
Local clock offset: -1.705 ms
Remote clock offset: 0.121 ms


# Below is generated by plot.py at 2019-02-11 19:28:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 22.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.26 Mbit/s
95th percentile per-packet one-way delay: 21.660 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.20 Mbit/s
95th percentile per-packet one-way delay: 20.692 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 25.055 ms
Loss rate: 0.00%
```
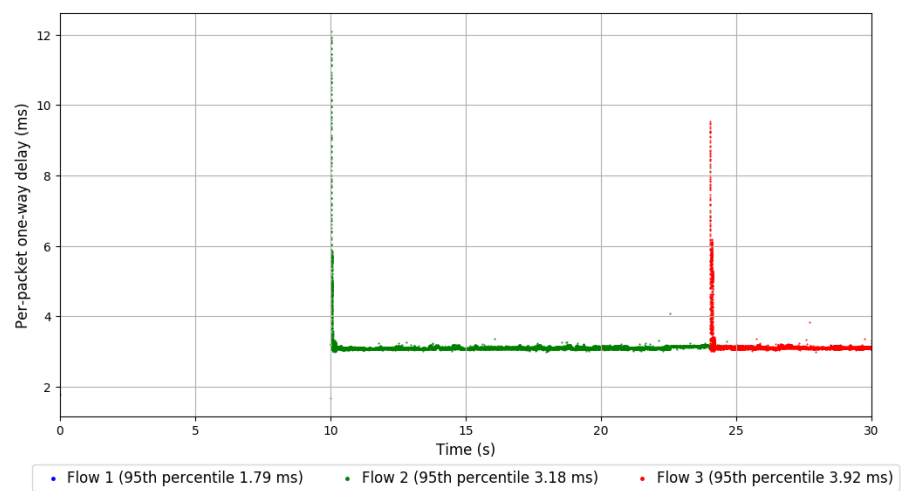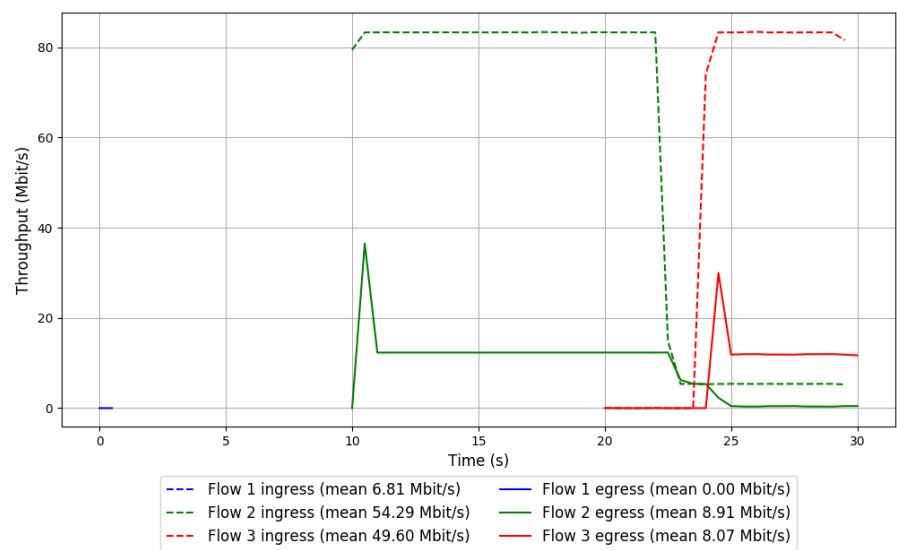
Run 5: Report of Sprout — Data Link

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

Start at: 2019-02-11 17:32:19
End at: 2019-02-11 17:32:49
Local clock offset: -0.776 ms
Remote clock offset: -0.406 ms


# Below is generated by plot.py at 2019-02-11 19:28:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 3.218 ms
Loss rate: 83.64%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 1.791 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 3.181 ms
Loss rate: 83.59%
-- Flow 3:
Average throughput: 8.07 Mbit/s
95th percentile per-packet one-way delay: 3.917 ms
Loss rate: 83.74%
```
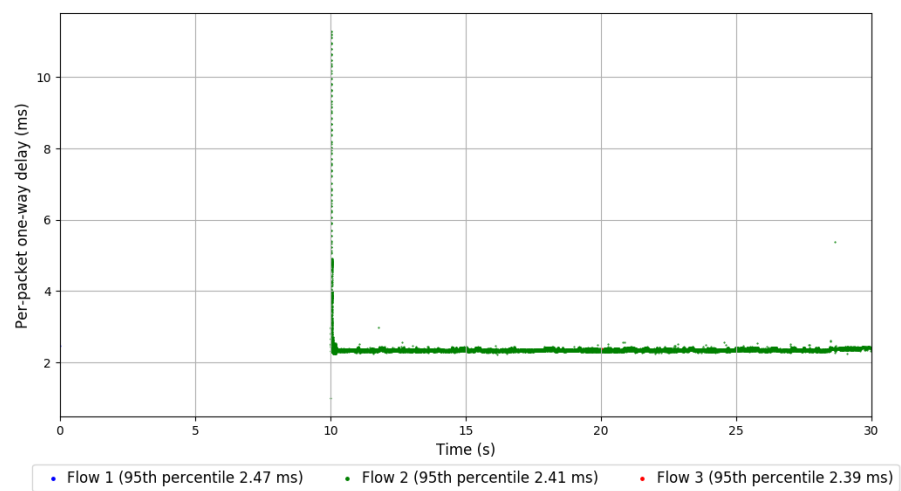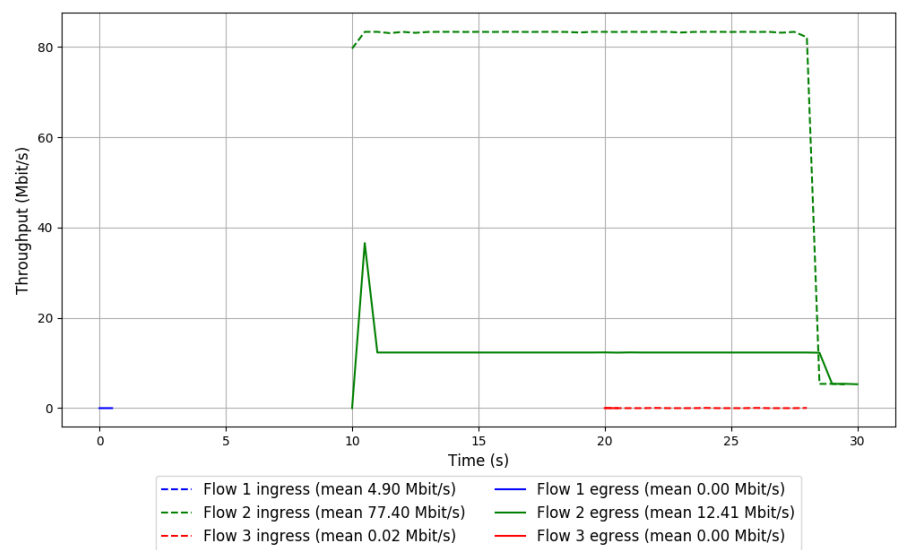
Run 1: Report of TaoVA-100x — Data Link

- Flow 1 ingress (mean 6.81 Mbit/s)
- Flow 1 egress (mean 0.00 Mbit/s)
- Flow 2 ingress (mean 54.29 Mbit/s)
- Flow 2 egress (mean 8.91 Mbit/s)
- Flow 3 ingress (mean 49.60 Mbit/s)
- Flow 3 egress (mean 8.07 Mbit/s)

- Flow 1 (95th percentile 1.79 ms)
- Flow 2 (95th percentile 3.18 ms)
- Flow 3 (95th percentile 3.92 ms)

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

Start at: 2019-02-11 17:56:15
End at: 2019-02-11 17:56:45
Local clock offset: -0.843 ms
Remote clock offset: -0.199 ms


# Below is generated by plot.py at 2019-02-11 19:28:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 2.412 ms
Loss rate: 83.96%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.467 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 2.412 ms
Loss rate: 83.96%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.388 ms
Loss rate: 99.16%
```
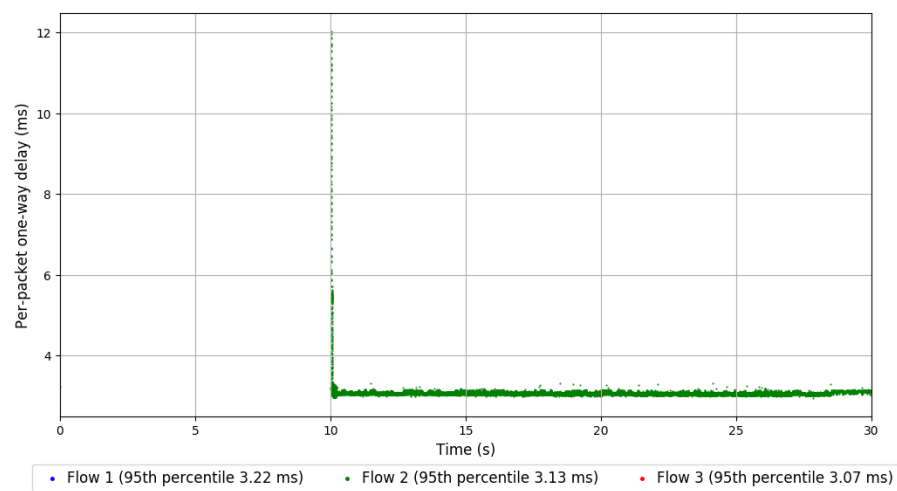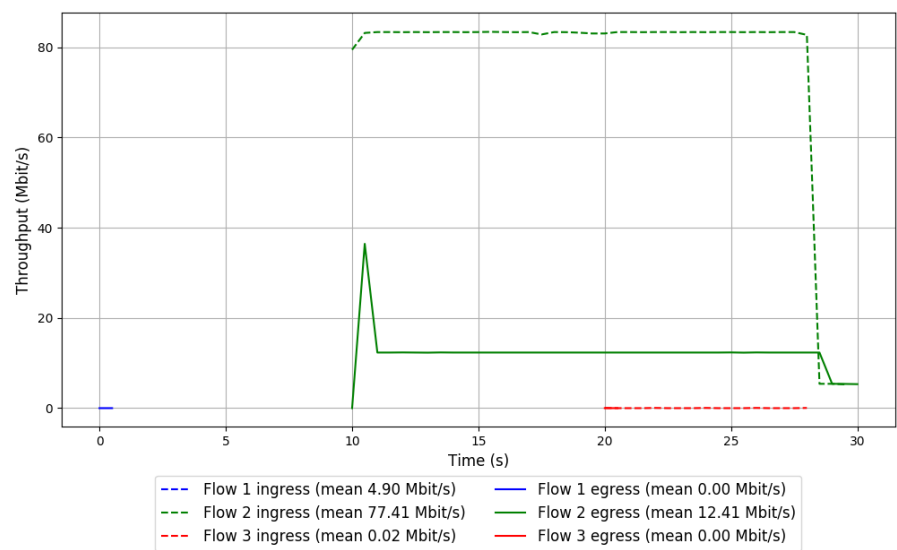
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 4.90 Mbit/s)   Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 77.40 Mbit/s)   Flow 2 egress (mean 12.41 Mbit/s)
Flow 3 ingress (mean 0.02 Mbit/s)   Flow 3 egress (mean 0.00 Mbit/s)

Flow 1 (95th percentile 2.47 ms)   Flow 2 (95th percentile 2.41 ms)   Flow 3 (95th percentile 2.39 ms)

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

Start at: 2019-02-11 18:20:11
End at: 2019-02-11 18:20:41
Local clock offset: -3.479 ms
Remote clock offset: 0.019 ms


# Below is generated by plot.py at 2019-02-11 19:28:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 3.134 ms
Loss rate: 83.96%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.217 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 3.134 ms
Loss rate: 83.96%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 3.070 ms
Loss rate: 99.16%
```
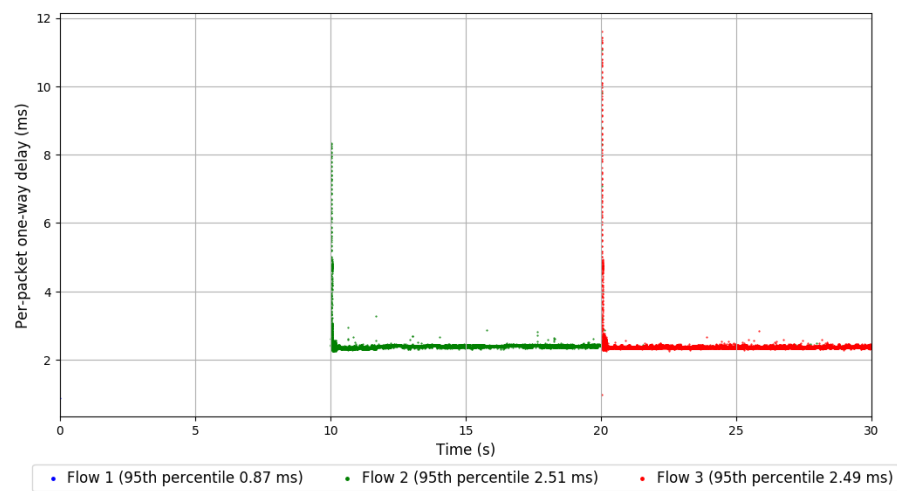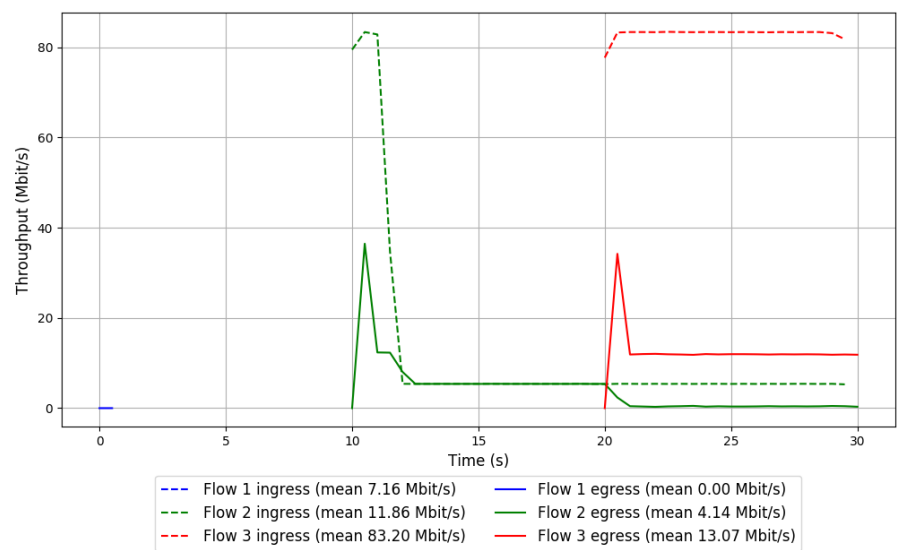
Run 3: Report of TaoVA-100x — Data Link

- - - Flow 1 ingress (mean 4.90 Mbit/s) —— Flow 1 egress (mean 0.00 Mbit/s)
- - - Flow 2 ingress (mean 77.41 Mbit/s) —— Flow 2 egress (mean 12.41 Mbit/s)
- - - Flow 3 ingress (mean 0.02 Mbit/s) —— Flow 3 egress (mean 0.00 Mbit/s)

• Flow 1 (95th percentile 3.22 ms)   • Flow 2 (95th percentile 3.13 ms)   • Flow 3 (95th percentile 3.07 ms)

170

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

Start at: 2019-02-11 18:44:06
End at: 2019-02-11 18:44:36
Local clock offset: -1.743 ms
Remote clock offset: 0.078 ms


# Below is generated by plot.py at 2019-02-11 19:28:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 2.495 ms
Loss rate: 80.04%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 0.874 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 2.507 ms
Loss rate: 65.16%
-- Flow 3:
Average throughput: 13.07 Mbit/s
95th percentile per-packet one-way delay: 2.489 ms
Loss rate: 84.29%
```
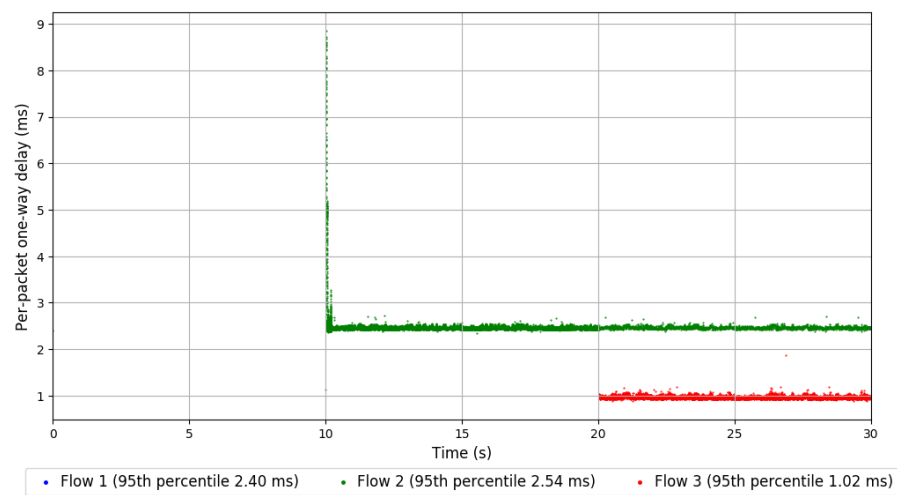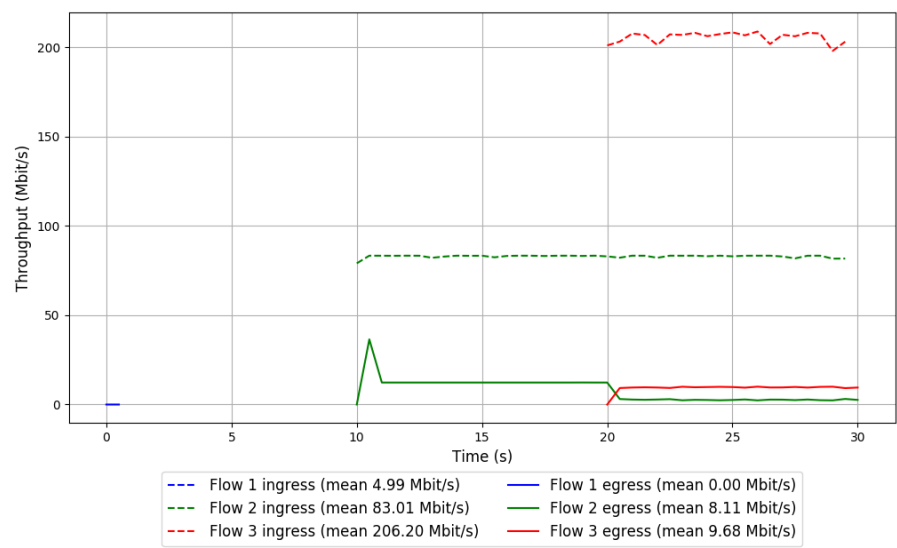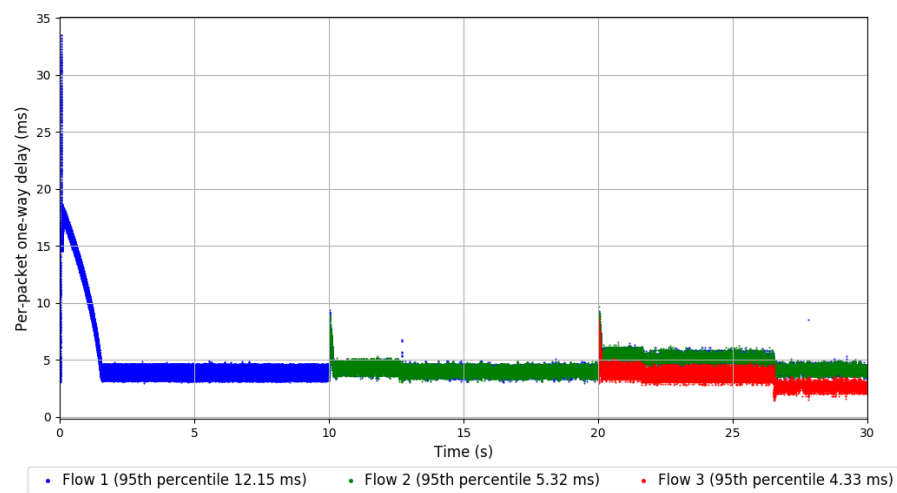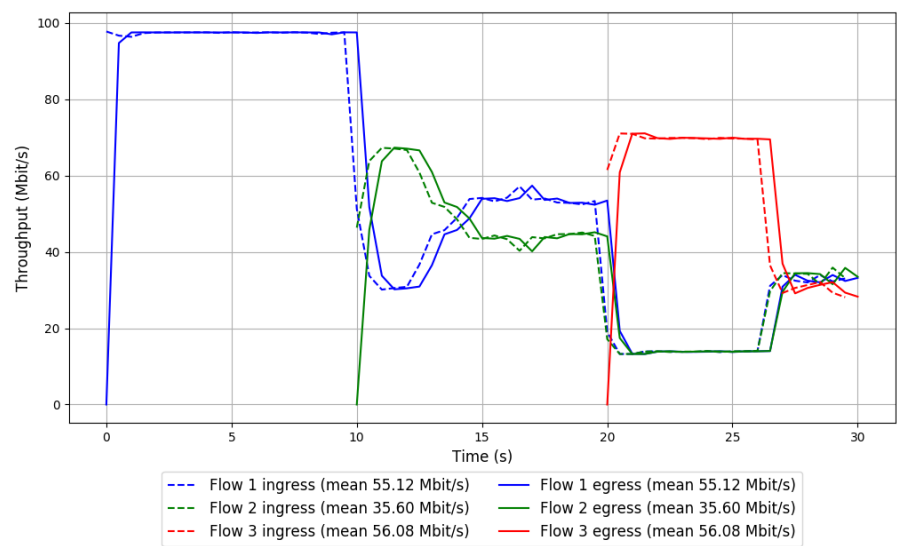
Run 4: Report of TaoVA-100x — Data Link

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

Start at: 2019-02-11 19:08:02
End at: 2019-02-11 19:08:32
Local clock offset: -1.152 ms
Remote clock offset: 0.234 ms


# Below is generated by plot.py at 2019-02-11 19:28:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 2.516 ms
Loss rate: 93.04%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 2.395 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 8.11 Mbit/s
95th percentile per-packet one-way delay: 2.535 ms
Loss rate: 90.23%
-- Flow 3:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 1.024 ms
Loss rate: 95.31%
```
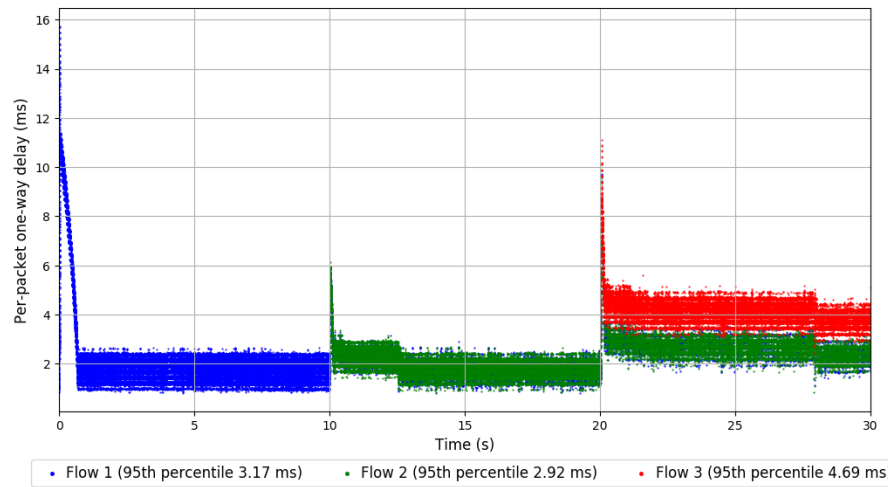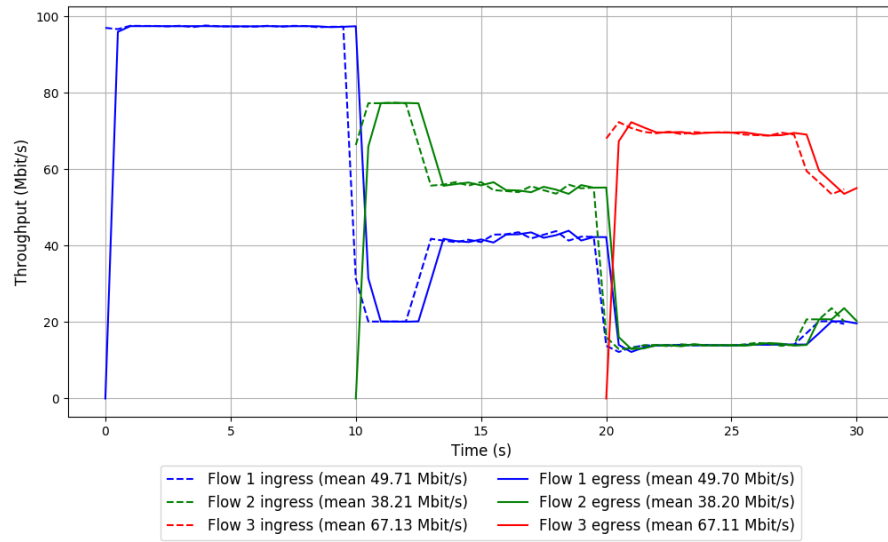
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 4.99 Mbit/s) — — — Flow 1 egress (mean 0.00 Mbit/s)
Flow 2 ingress (mean 83.01 Mbit/s) — — — Flow 2 egress (mean 8.11 Mbit/s)
Flow 3 ingress (mean 206.20 Mbit/s) — — — Flow 3 egress (mean 9.68 Mbit/s)

Flow 1 (95th percentile 2.40 ms)   Flow 2 (95th percentile 2.54 ms)   Flow 3 (95th percentile 1.02 ms)

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```
Run 1: Statistics of TCP Vegas

Start at: 2019-02-11 17:35:42
End at: 2019-02-11 17:36:12
Local clock offset: -0.898 ms
Remote clock offset: -0.363 ms


# Below is generated by plot.py at 2019-02-11 19:28:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 6.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.12 Mbit/s
95th percentile per-packet one-way delay: 12.150 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.60 Mbit/s
95th percentile per-packet one-way delay: 5.323 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.08 Mbit/s
95th percentile per-packet one-way delay: 4.331 ms
Loss rate: 0.00%
```

Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2019-02-11 17:59:37
End at: 2019-02-11 18:00:07
Local clock offset: -0.789 ms
Remote clock offset: -0.141 ms


# Below is generated by plot.py at 2019-02-11 19:28:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 4.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.70 Mbit/s
95th percentile per-packet one-way delay: 3.169 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 2.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.11 Mbit/s
95th percentile per-packet one-way delay: 4.689 ms
Loss rate: 0.01%
```
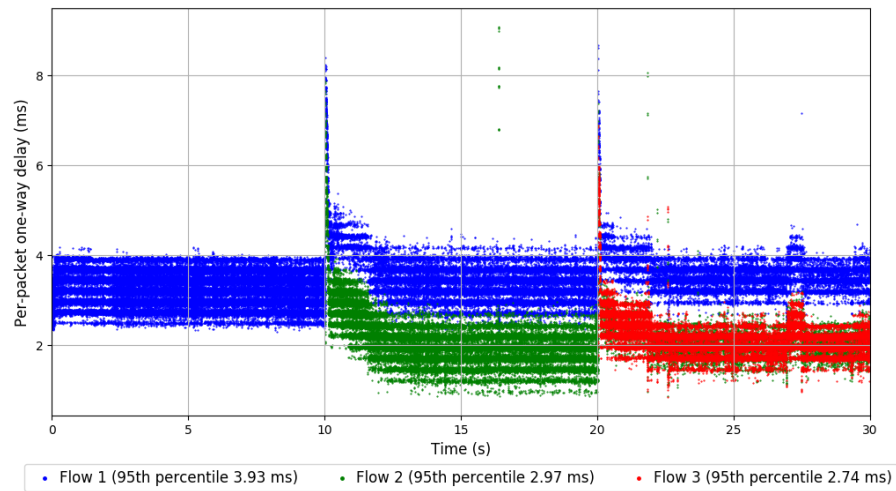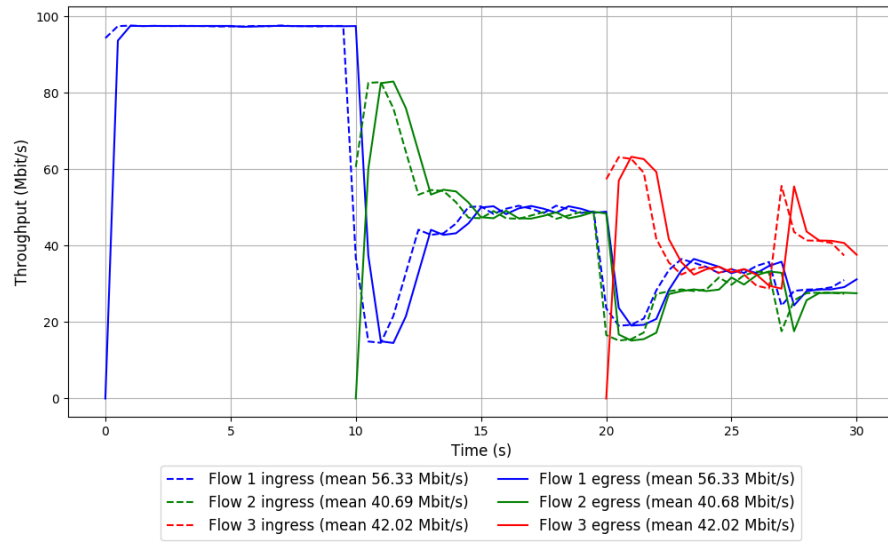
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2019-02-11 18:23:33
End at: 2019-02-11 18:24:03
Local clock offset: -2.868 ms
Remote clock offset: 0.097 ms


# Below is generated by plot.py at 2019-02-11 19:28:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 3.876 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.33 Mbit/s
95th percentile per-packet one-way delay: 3.926 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 2.966 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.02 Mbit/s
95th percentile per-packet one-way delay: 2.736 ms
Loss rate: 0.00%
```
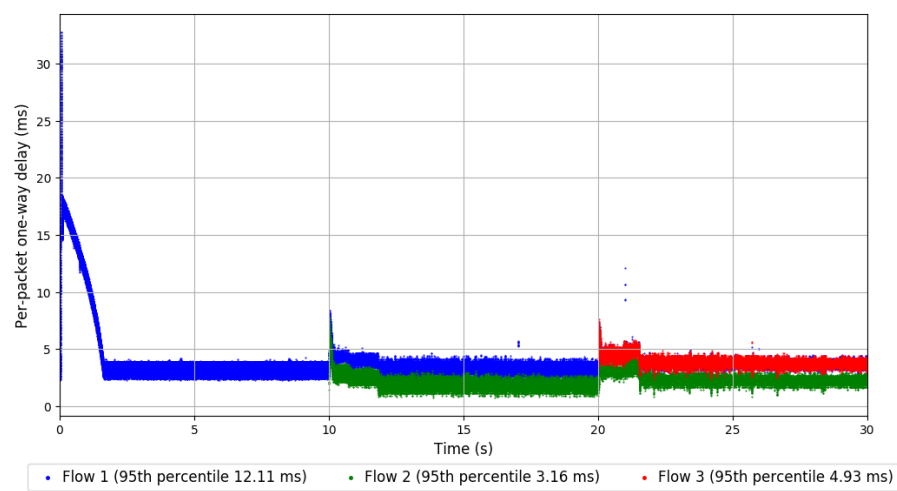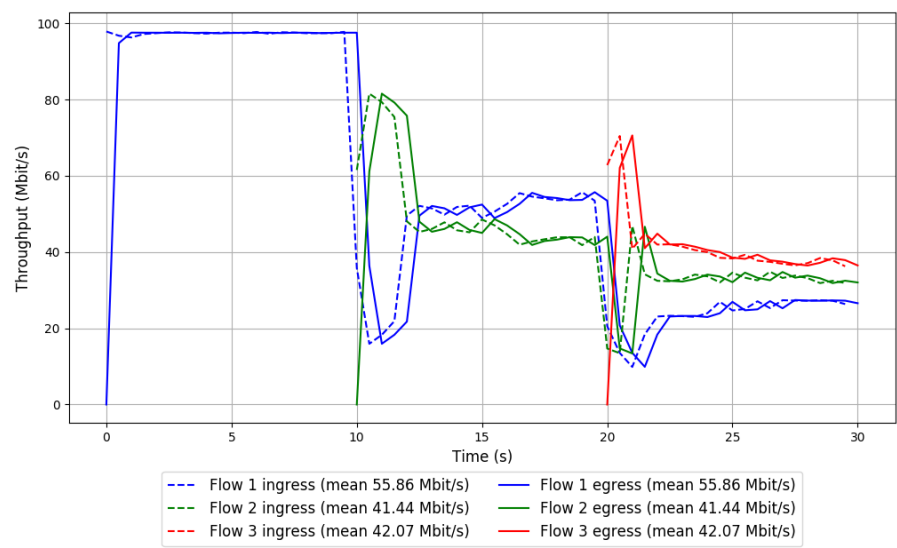
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 56.33 Mbit/s) --- Flow 1 egress (mean 56.33 Mbit/s)
Flow 2 ingress (mean 40.69 Mbit/s) --- Flow 2 egress (mean 40.68 Mbit/s)
Flow 3 ingress (mean 42.02 Mbit/s) --- Flow 3 egress (mean 42.02 Mbit/s)

Flow 1 (95th percentile 3.93 ms) • Flow 2 (95th percentile 2.97 ms) • Flow 3 (95th percentile 2.74 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2019-02-11 18:47:28
End at: 2019-02-11 18:47:58
Local clock offset: -1.563 ms
Remote clock offset: 0.047 ms


# Below is generated by plot.py at 2019-02-11 19:28:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 5.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 12.110 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 3.164 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 4.926 ms
Loss rate: 0.00%
```
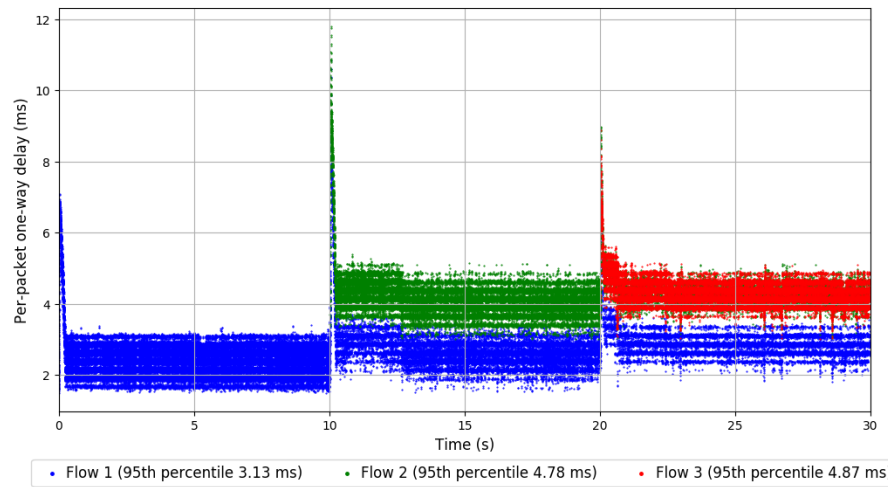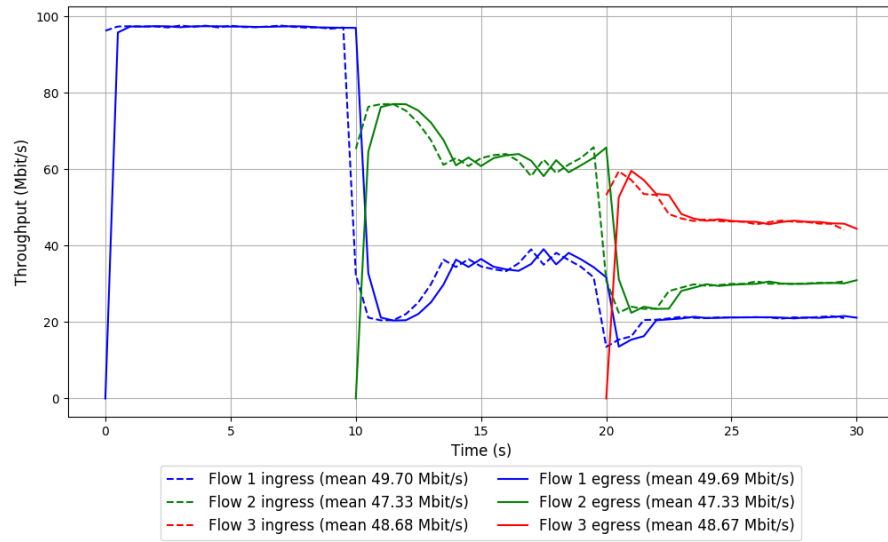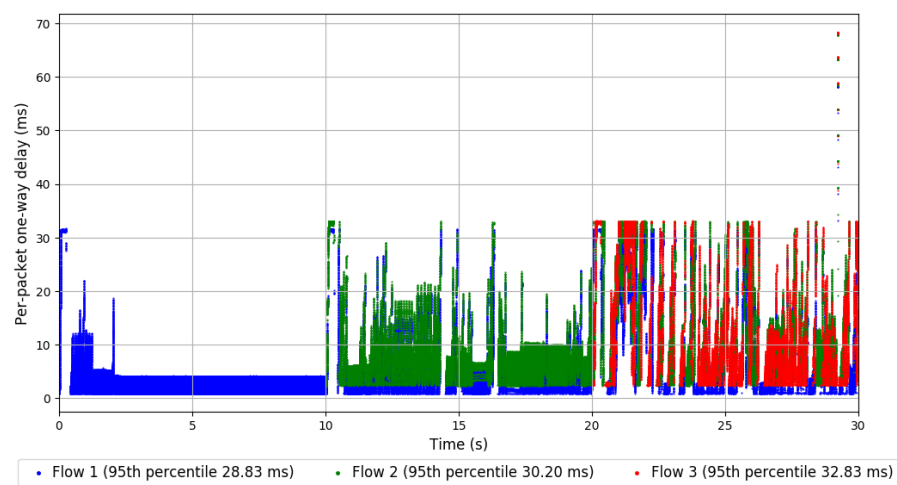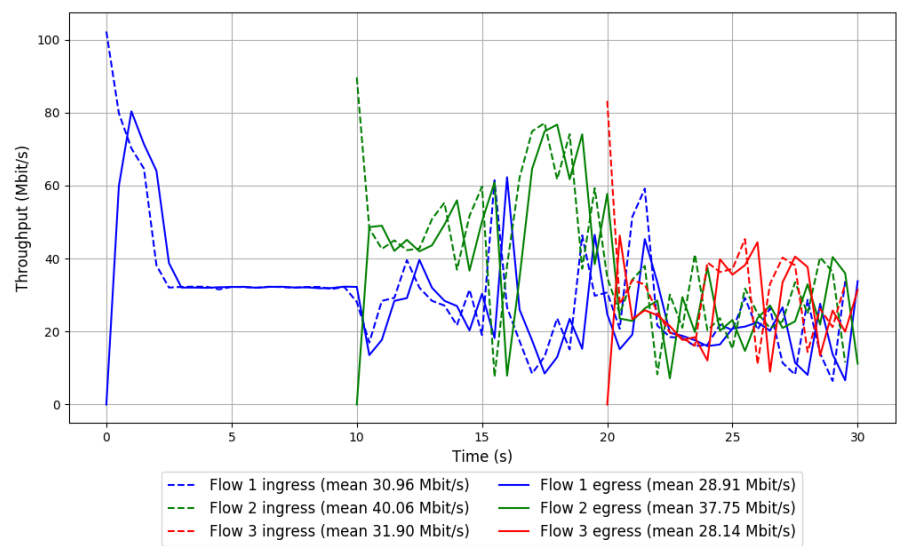
Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 55.86 Mbit/s) ---- Flow 1 egress (mean 55.86 Mbit/s) ——
Flow 2 ingress (mean 41.44 Mbit/s) ---- Flow 2 egress (mean 41.44 Mbit/s) ——
Flow 3 ingress (mean 42.07 Mbit/s) ---- Flow 3 egress (mean 42.07 Mbit/s) ——

Flow 1 (95th percentile 12.11 ms) • Flow 2 (95th percentile 3.16 ms) • Flow 3 (95th percentile 4.93 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2019-02-11 19:11:25
End at: 2019-02-11 19:11:55
Local clock offset: -1.947 ms
Remote clock offset: 0.131 ms


# Below is generated by plot.py at 2019-02-11 19:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 4.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 3.127 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.33 Mbit/s
95th percentile per-packet one-way delay: 4.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 48.67 Mbit/s
95th percentile per-packet one-way delay: 4.869 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 49.70 Mbit/s) --- Flow 1 egress (mean 49.69 Mbit/s)
Flow 2 ingress (mean 47.33 Mbit/s) --- Flow 2 egress (mean 47.33 Mbit/s)
Flow 3 ingress (mean 48.68 Mbit/s) --- Flow 3 egress (mean 48.67 Mbit/s)

Flow 1 (95th percentile 3.13 ms) • Flow 2 (95th percentile 4.78 ms) • Flow 3 (95th percentile 4.87 ms)
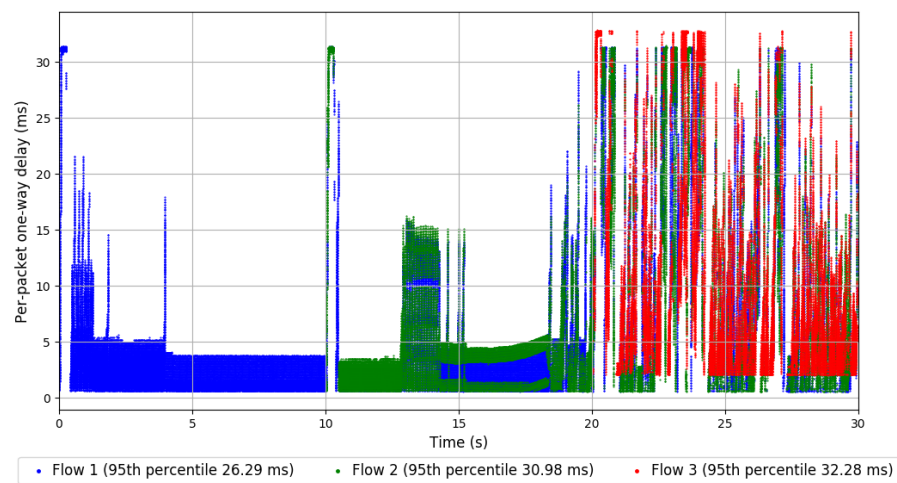
```
Run 1: Statistics of Verus

Start at: 2019-02-11 17:18:41
End at: 2019-02-11 17:19:11
Local clock offset: -0.587 ms
Remote clock offset: -0.422 ms


# Below is generated by plot.py at 2019-02-11 19:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.33 Mbit/s
95th percentile per-packet one-way delay: 30.593 ms
Loss rate: 7.01%
-- Flow 1:
Average throughput: 28.91 Mbit/s
95th percentile per-packet one-way delay: 28.828 ms
Loss rate: 6.55%
-- Flow 2:
Average throughput: 37.75 Mbit/s
95th percentile per-packet one-way delay: 30.201 ms
Loss rate: 5.73%
-- Flow 3:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 32.832 ms
Loss rate: 11.59%
```
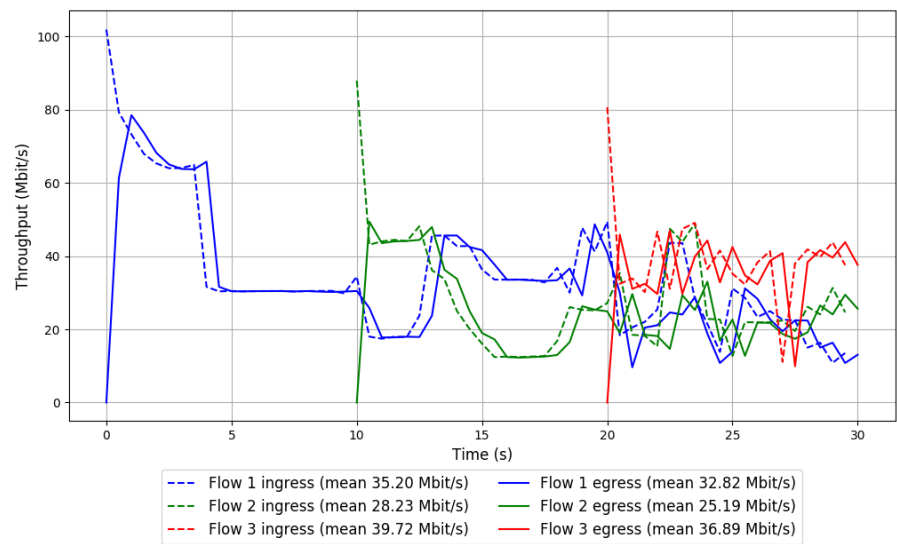
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2019-02-11 17:42:36
End at: 2019-02-11 17:43:06
Local clock offset: -0.719 ms
Remote clock offset: -0.299 ms


# Below is generated by plot.py at 2019-02-11 19:29:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.45 Mbit/s
95th percentile per-packet one-way delay: 32.114 ms
Loss rate: 10.19%
-- Flow 1:
Average throughput: 45.07 Mbit/s
95th percentile per-packet one-way delay: 30.234 ms
Loss rate: 6.06%
-- Flow 2:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 32.794 ms
Loss rate: 16.55%
-- Flow 3:
Average throughput: 20.22 Mbit/s
95th percentile per-packet one-way delay: 31.298 ms
Loss rate: 15.29%
```
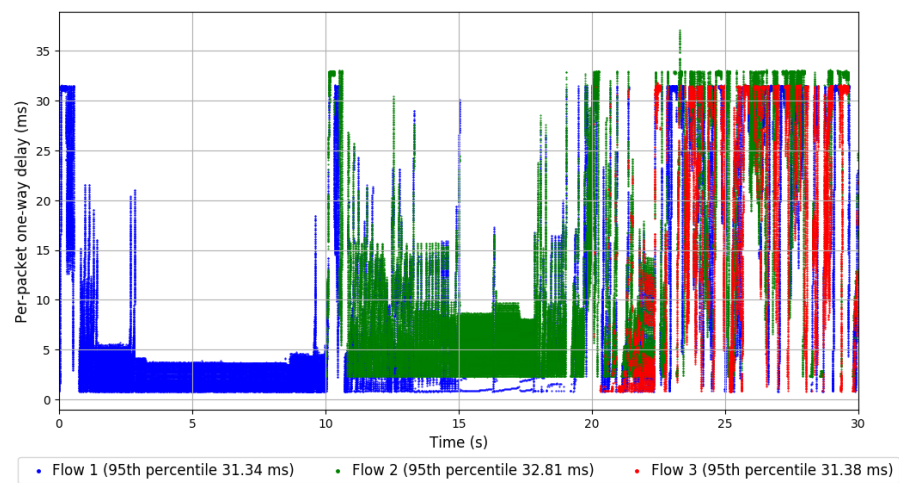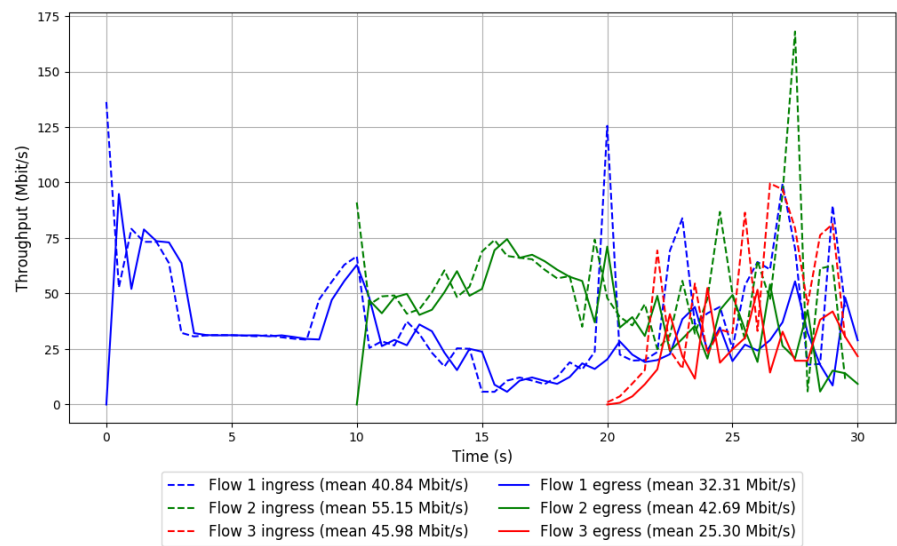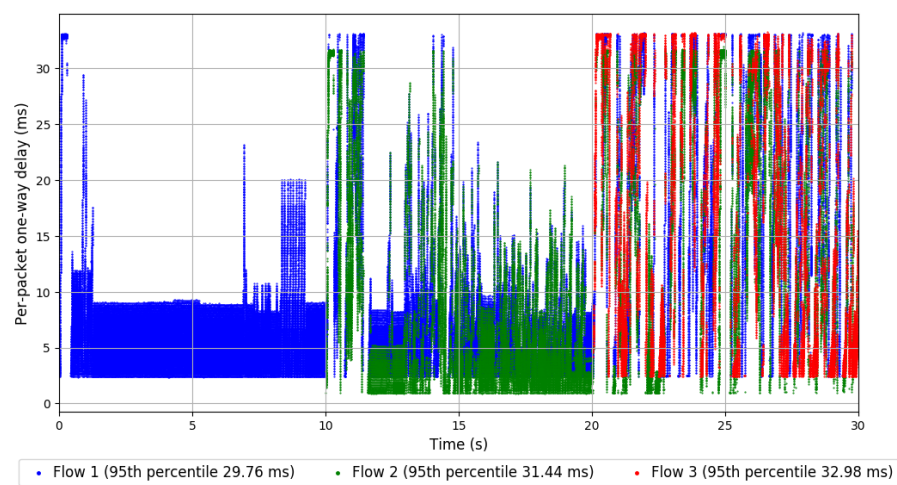
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2019-02-11 18:06:32
End at: 2019-02-11 18:07:02
Local clock offset: -1.256 ms
Remote clock offset: -0.119 ms


# Below is generated by plot.py at 2019-02-11 19:29:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.81 Mbit/s
95th percentile per-packet one-way delay: 30.081 ms
Loss rate: 7.90%
-- Flow 1:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 26.288 ms
Loss rate: 6.68%
-- Flow 2:
Average throughput: 25.19 Mbit/s
95th percentile per-packet one-way delay: 30.985 ms
Loss rate: 10.74%
-- Flow 3:
Average throughput: 36.89 Mbit/s
95th percentile per-packet one-way delay: 32.285 ms
Loss rate: 7.11%
```

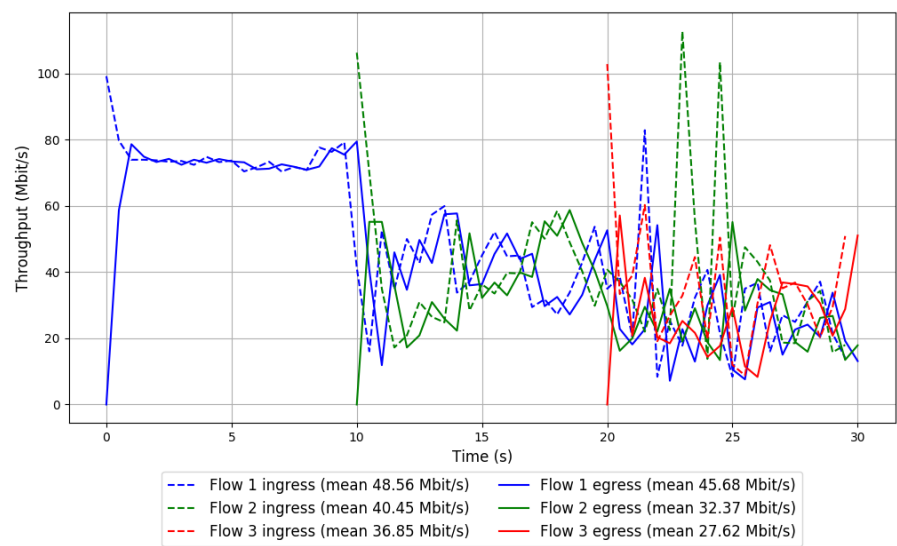Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2019-02-11 18:30:28
End at: 2019-02-11 18:30:58
Local clock offset: -3.053 ms
Remote clock offset: 0.139 ms


# Below is generated by plot.py at 2019-02-11 19:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.06 Mbit/s
95th percentile per-packet one-way delay: 31.400 ms
Loss rate: 25.48%
-- Flow 1:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 31.344 ms
Loss rate: 20.83%
-- Flow 2:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 32.811 ms
Loss rate: 22.56%
-- Flow 3:
Average throughput: 25.30 Mbit/s
95th percentile per-packet one-way delay: 31.382 ms
Loss rate: 45.02%
```
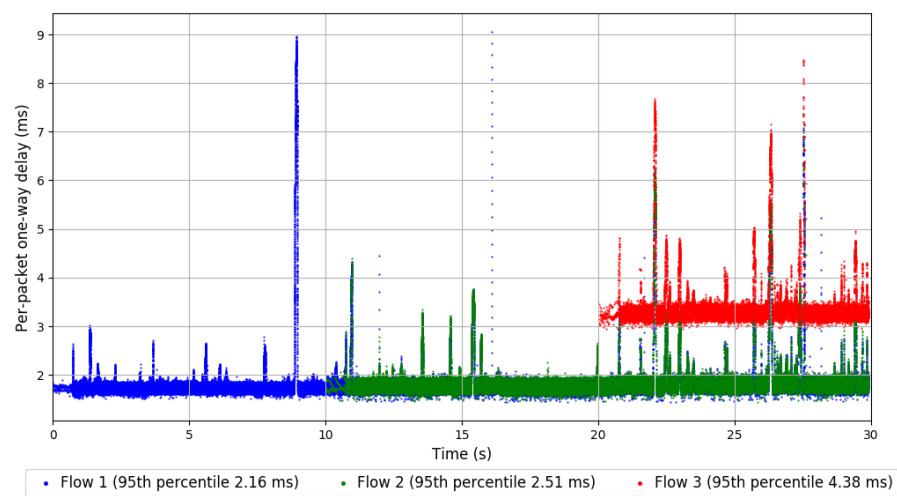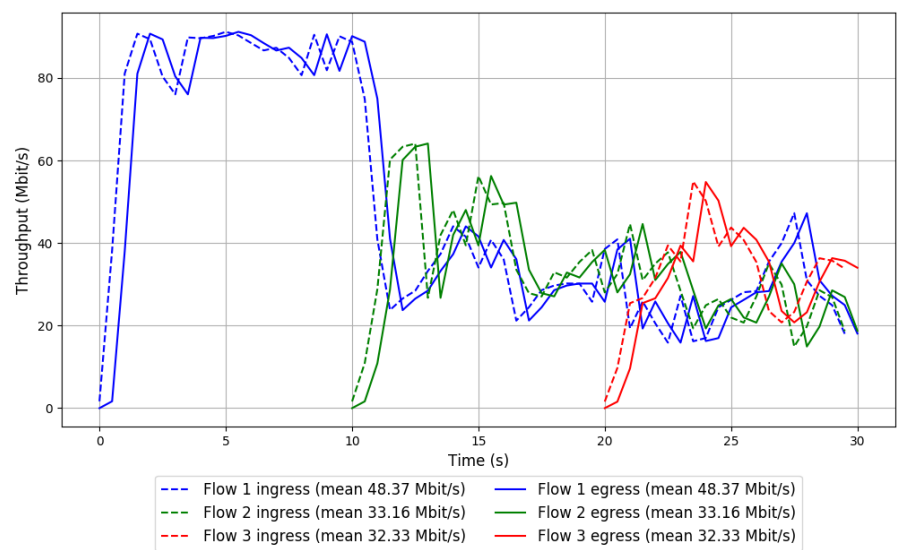
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2019-02-11 18:54:22
End at: 2019-02-11 18:54:52
Local clock offset: -1.238 ms
Remote clock offset: 0.21 ms


# Below is generated by plot.py at 2019-02-11 19:29:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.39 Mbit/s
95th percentile per-packet one-way delay: 31.490 ms
Loss rate: 12.87%
-- Flow 1:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 29.756 ms
Loss rate: 5.92%
-- Flow 2:
Average throughput: 32.37 Mbit/s
95th percentile per-packet one-way delay: 31.442 ms
Loss rate: 19.92%
-- Flow 3:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 32.979 ms
Loss rate: 24.99%
```
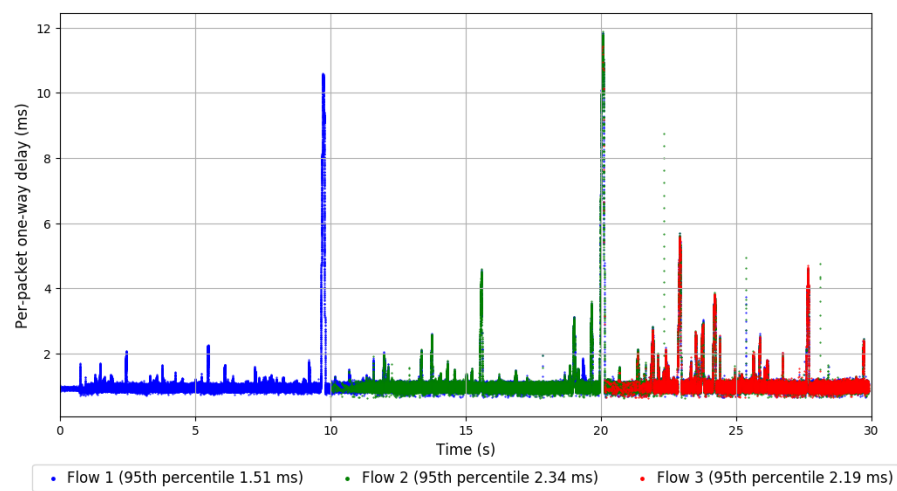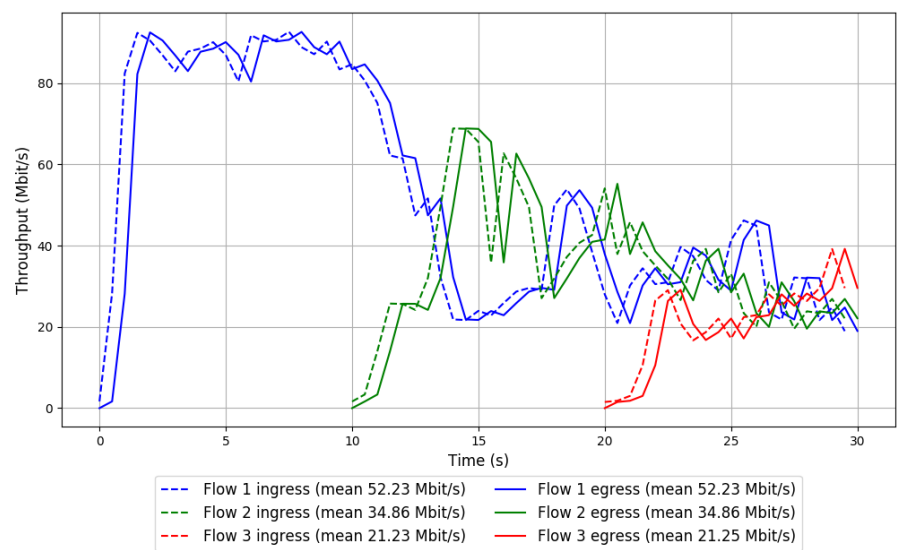
Run 5: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2019-02-11 17:24:15
End at: 2019-02-11 17:24:45
Local clock offset: -1.147 ms
Remote clock offset: -0.409 ms


# Below is generated by plot.py at 2019-02-11 19:29:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.10 Mbit/s
95th percentile per-packet one-way delay: 3.358 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.37 Mbit/s
95th percentile per-packet one-way delay: 2.156 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 2.508 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.33 Mbit/s
95th percentile per-packet one-way delay: 4.376 ms
Loss rate: 0.00%
```
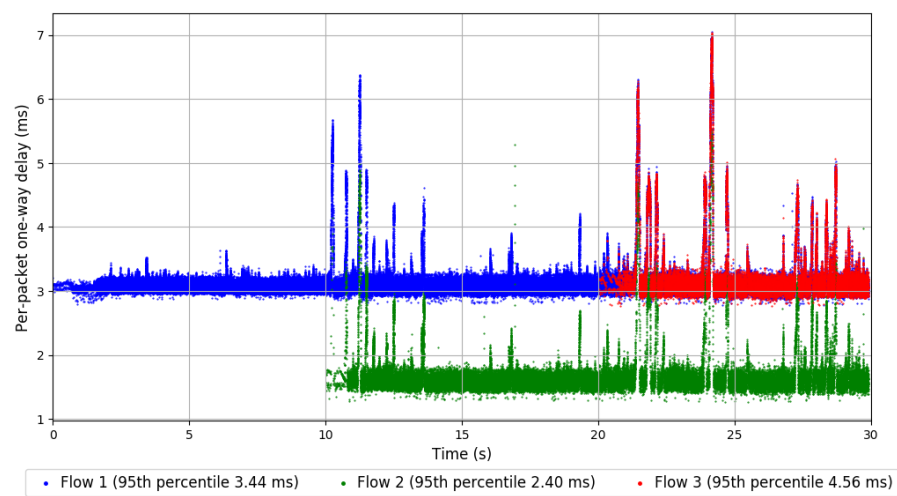
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2019-02-11 17:48:11
End at: 2019-02-11 17:48:41
Local clock offset: -0.855 ms
Remote clock offset: -0.196 ms


# Below is generated by plot.py at 2019-02-11 19:29:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.42 Mbit/s
95th percentile per-packet one-way delay: 1.787 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 1.510 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 2.344 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 2.190 ms
Loss rate: 0.00%
```

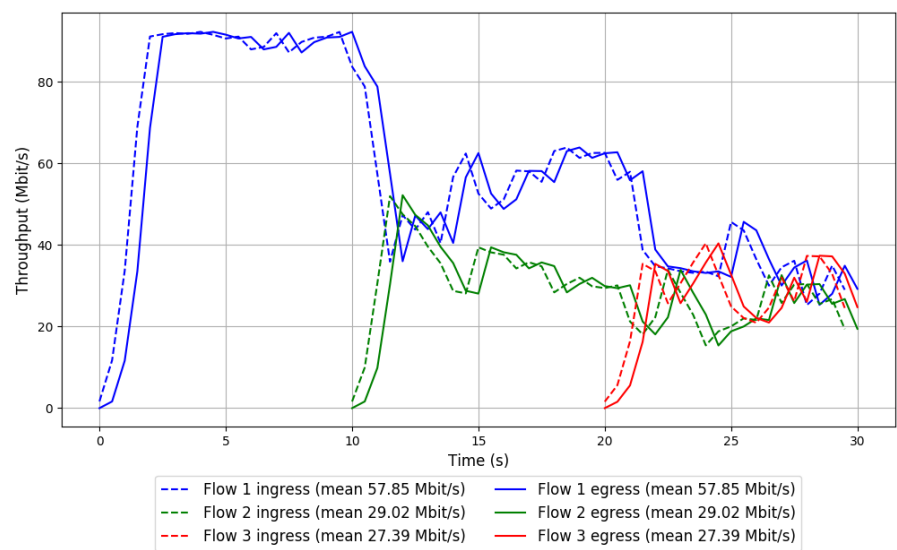Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2019-02-11 18:12:07
End at: 2019-02-11 18:12:37
Local clock offset: -2.856 ms
Remote clock offset: -0.033 ms


# Below is generated by plot.py at 2019-02-11 19:29:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.20 Mbit/s
95th percentile per-packet one-way delay: 3.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.85 Mbit/s
95th percentile per-packet one-way delay: 3.444 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 2.397 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.39 Mbit/s
95th percentile per-packet one-way delay: 4.563 ms
Loss rate: 0.00%
```
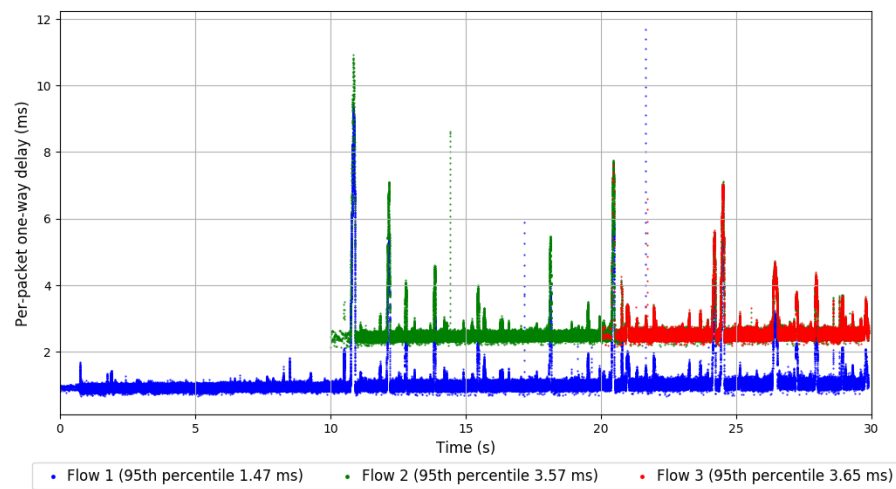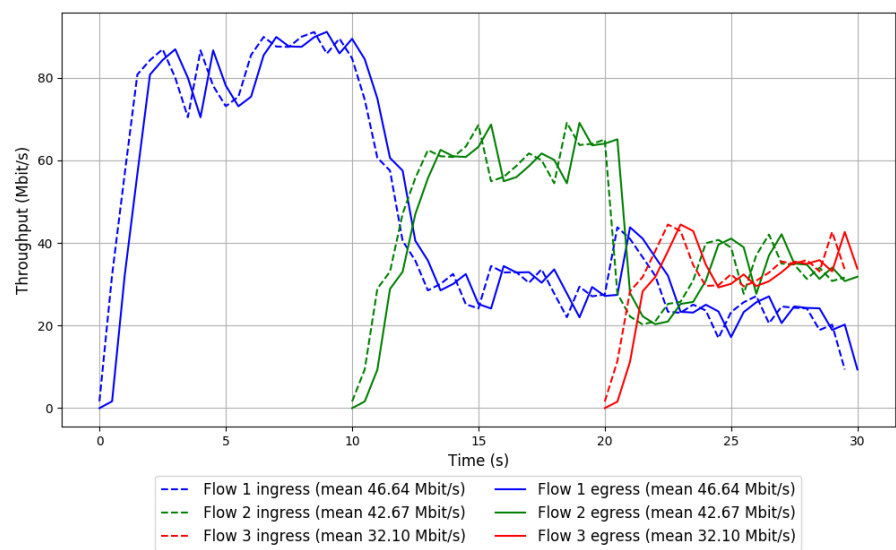
Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2019-02-11 18:36:02
End at: 2019-02-11 18:36:32
Local clock offset: -2.771 ms
Remote clock offset: 0.036 ms


# Below is generated by plot.py at 2019-02-11 19:29:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.61 Mbit/s
95th percentile per-packet one-way delay: 2.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.64 Mbit/s
95th percentile per-packet one-way delay: 1.467 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.67 Mbit/s
95th percentile per-packet one-way delay: 3.568 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 3.647 ms
Loss rate: 0.00%
```
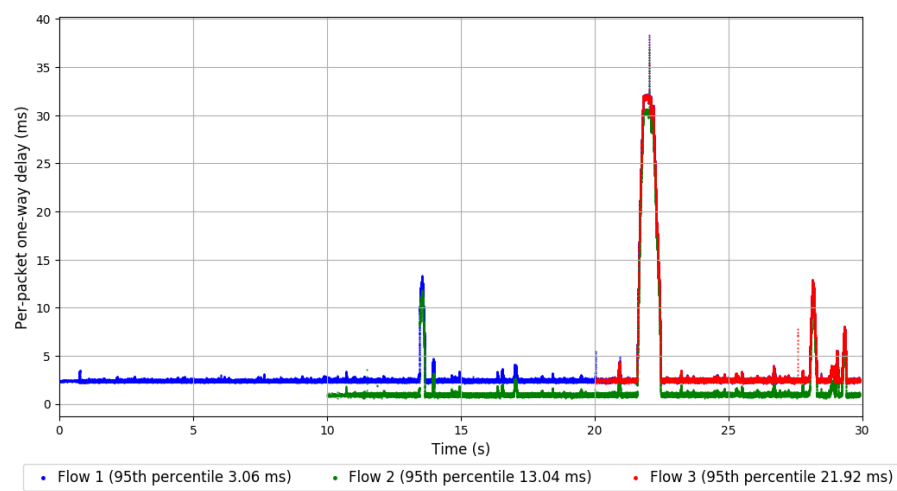
Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2019-02-11 18:59:58
End at: 2019-02-11 19:00:28
Local clock offset: -0.998 ms
Remote clock offset: 0.146 ms


# Below is generated by plot.py at 2019-02-11 19:29:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 5.340 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 61.26 Mbit/s
95th percentile per-packet one-way delay: 3.055 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 26.21 Mbit/s
95th percentile per-packet one-way delay: 13.044 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 21.919 ms
Loss rate: 0.09%
```
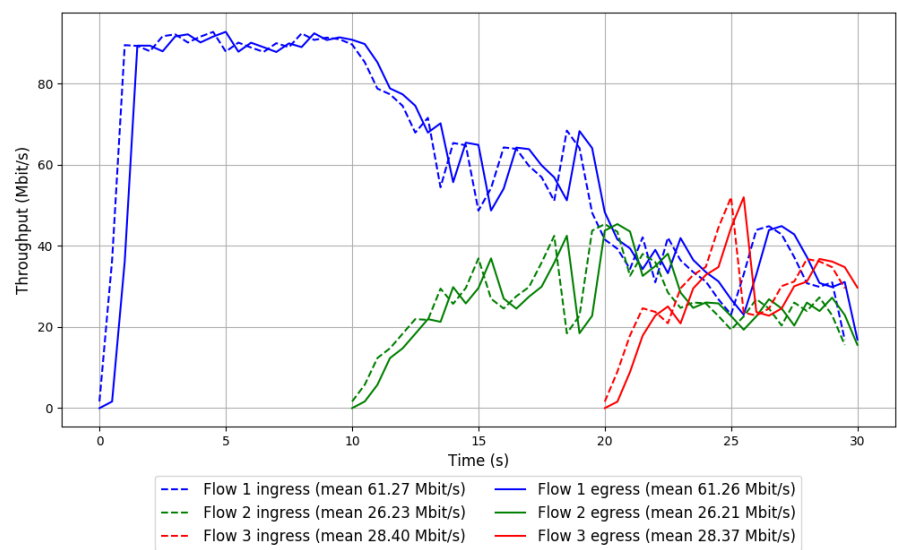
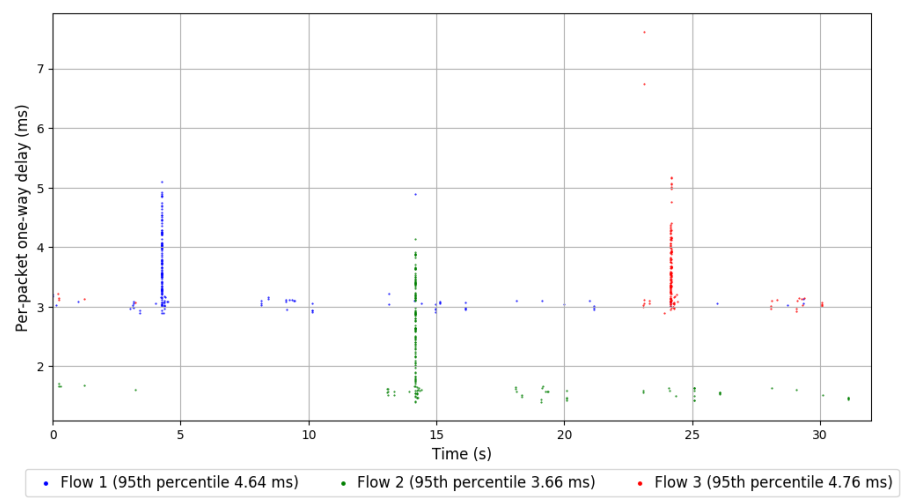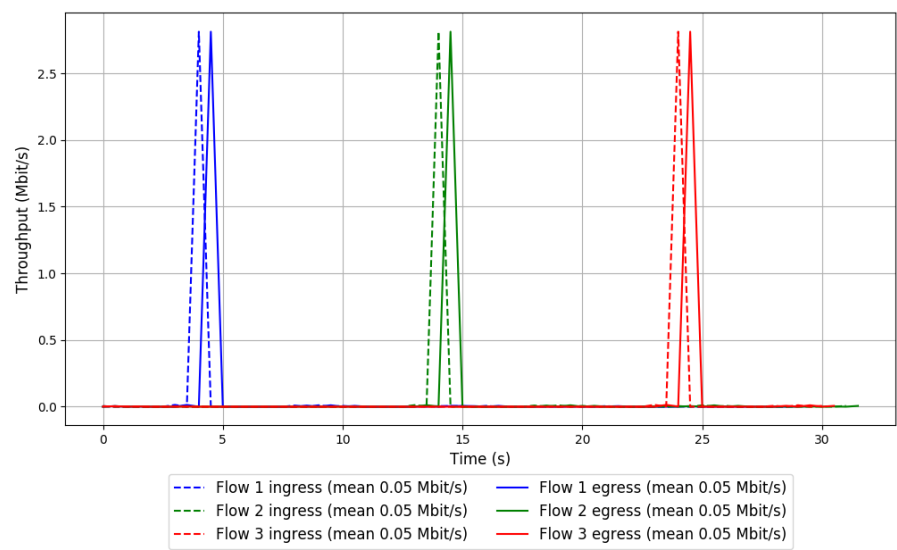Run 5: Report of PCC-Vivace — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2019-02-11 17:19:50
End at: 2019-02-11 17:20:20
Local clock offset: -1.241 ms
Remote clock offset: -0.471 ms


# Below is generated by plot.py at 2019-02-11 19:29:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.409 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.638 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.660 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.756 ms
Loss rate: 0.00%
```

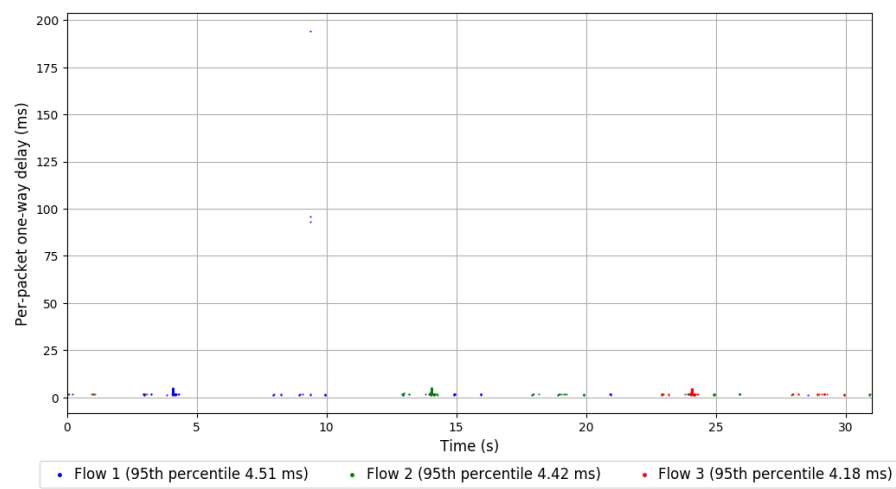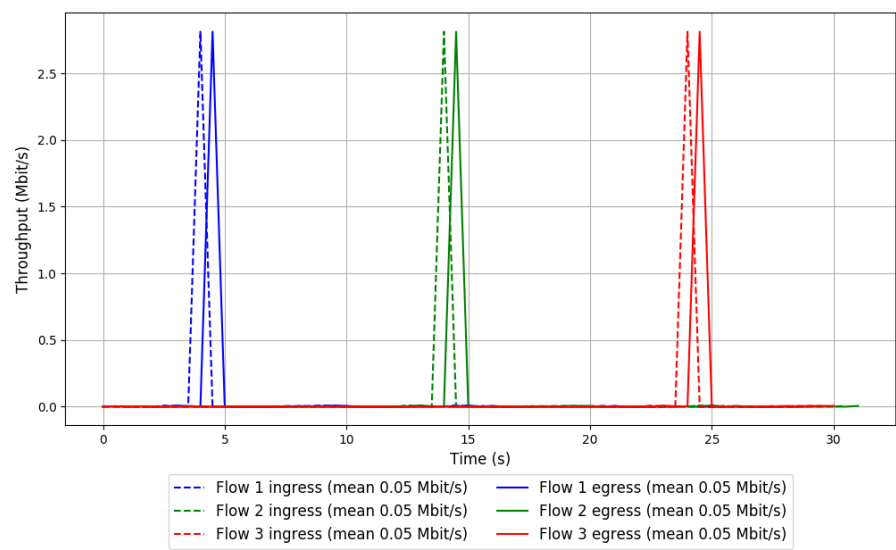Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2019-02-11 17:43:46
End at: 2019-02-11 17:44:16
Local clock offset: -1.523 ms
Remote clock offset: -0.309 ms


# Below is generated by plot.py at 2019-02-11 19:29:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 4.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.515 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.425 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.182 ms
Loss rate: 0.00%
```

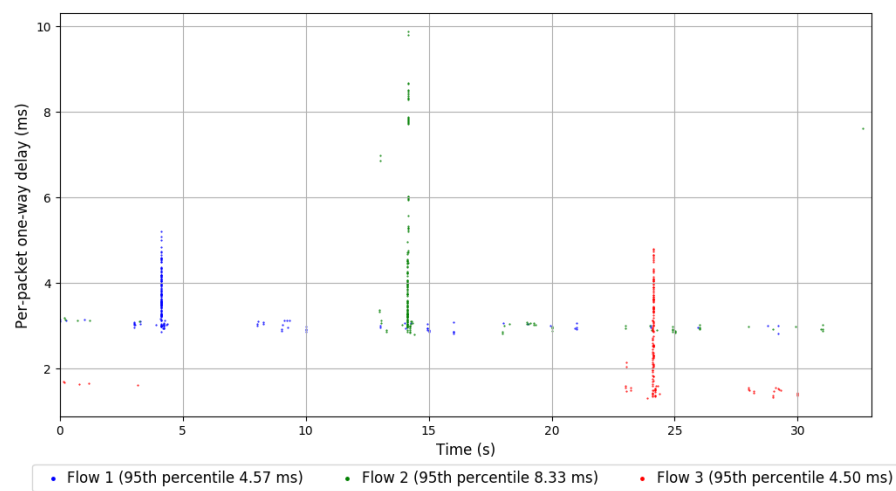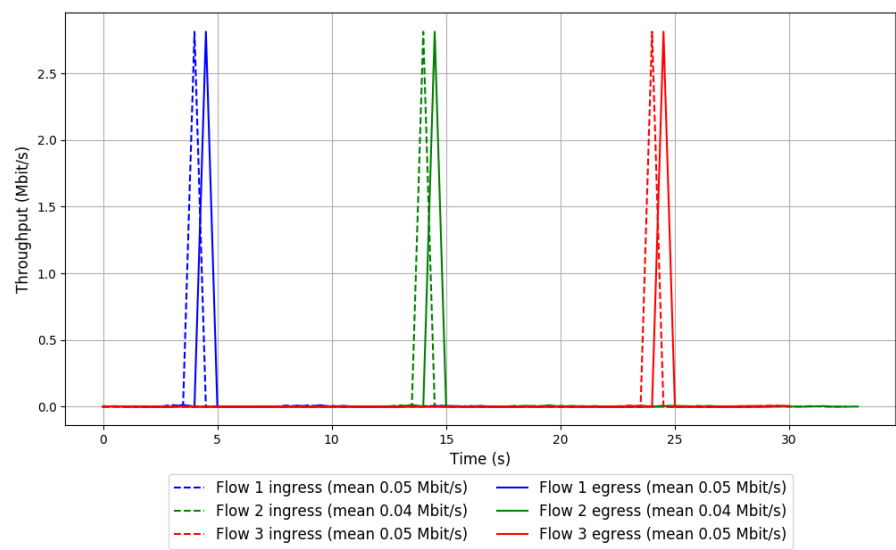Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2019-02-11 18:07:41
End at: 2019-02-11 18:08:11
Local clock offset: -2.236 ms
Remote clock offset: -0.072 ms


# Below is generated by plot.py at 2019-02-11 19:29:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 5.979 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.569 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 8.334 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 4.500 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2019-02-11 18:31:37
End at: 2019-02-11 18:32:07
Local clock offset: -3.063 ms
Remote clock offset: 0.061 ms


# Below is generated by plot.py at 2019-02-11 19:29:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 3.384 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.362 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.677 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.624 ms
Loss rate: 0.00%
```
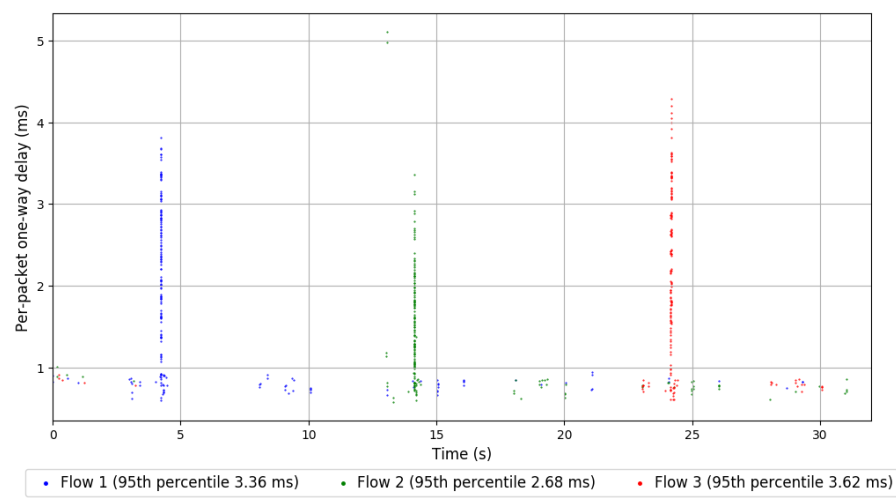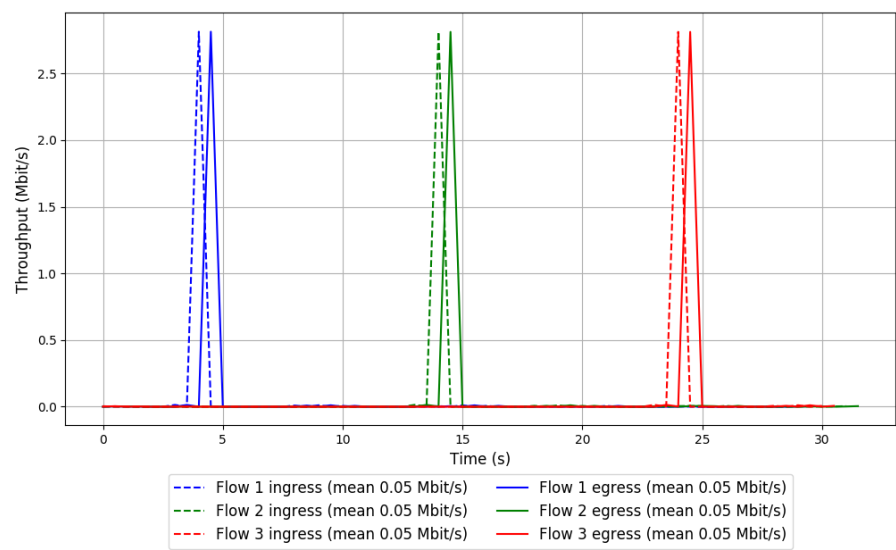
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2019-02-11 18:55:32
End at: 2019-02-11 18:56:02
Local clock offset: -1.898 ms
Remote clock offset: 0.149 ms


# Below is generated by plot.py at 2019-02-11 19:29:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 6.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.979 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 8.410 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 5.101 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link