Pantheon Report

Generated at 2018-03-21 09:11:42 (UTC).

Data path: Mexico Ethernet (*remote*) →AWS California 2 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

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

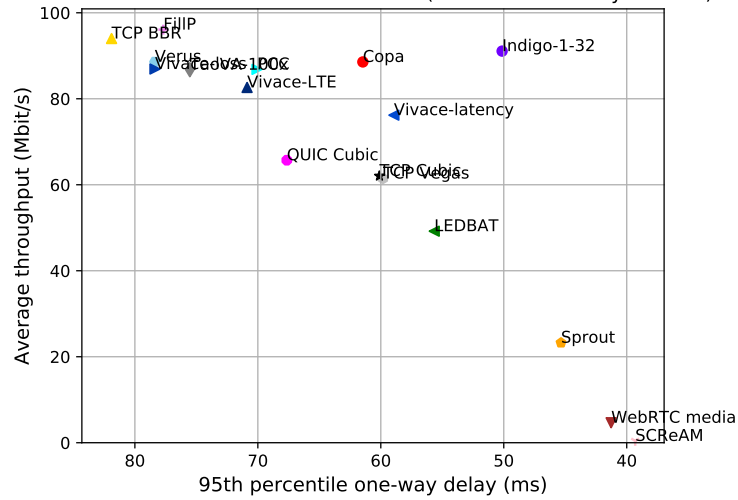Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (`fq`), and other schemes with the default Linux qdisc (`pfifo_fast`).

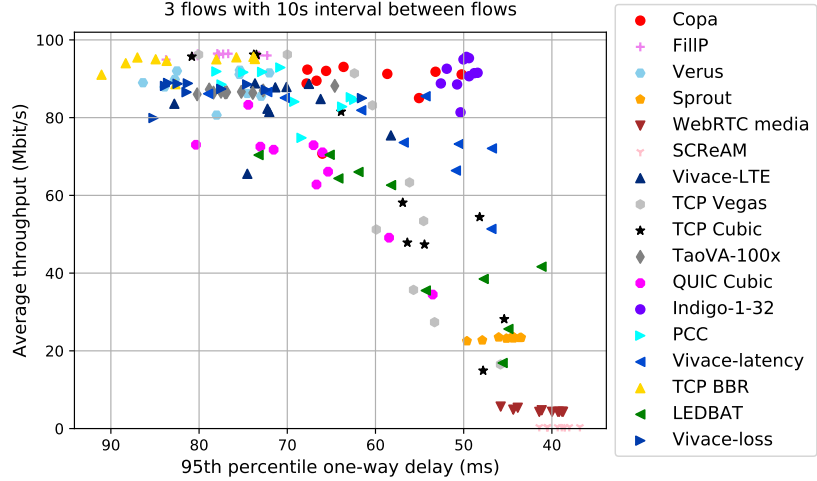NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 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 @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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

test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme
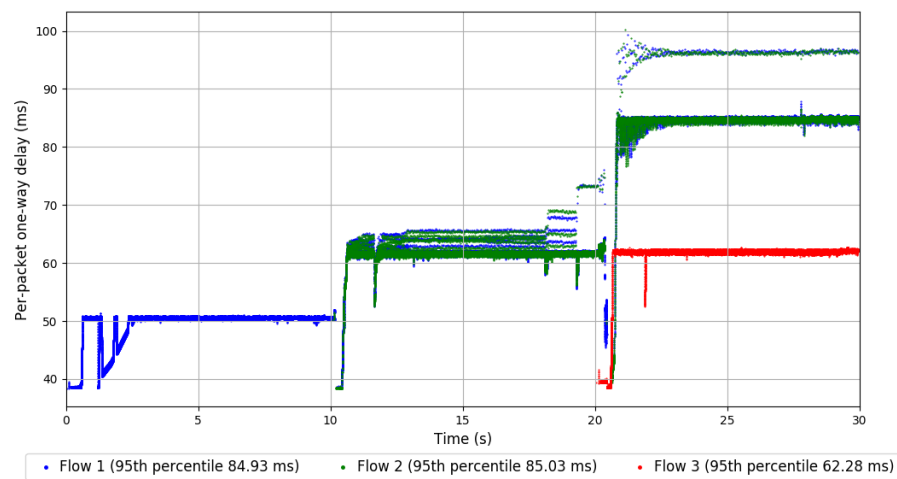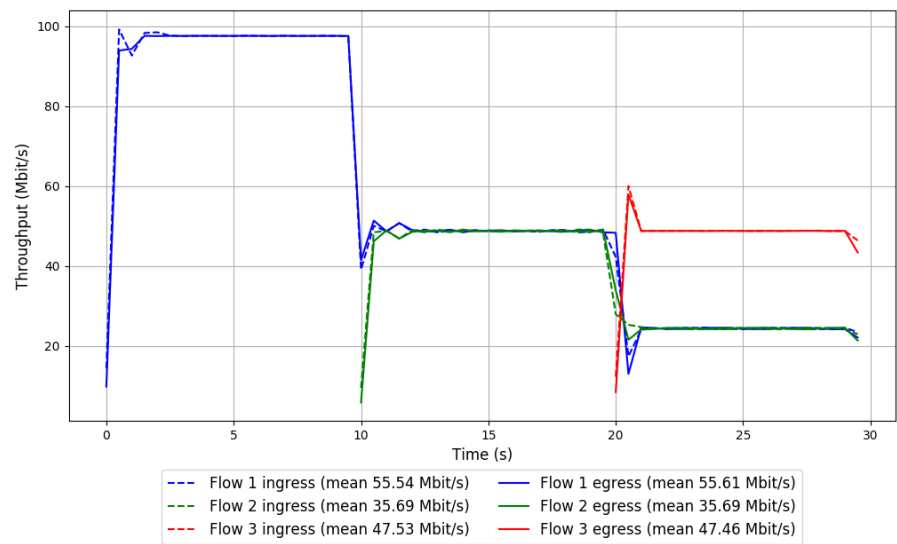3 flows with 10s interval between flows

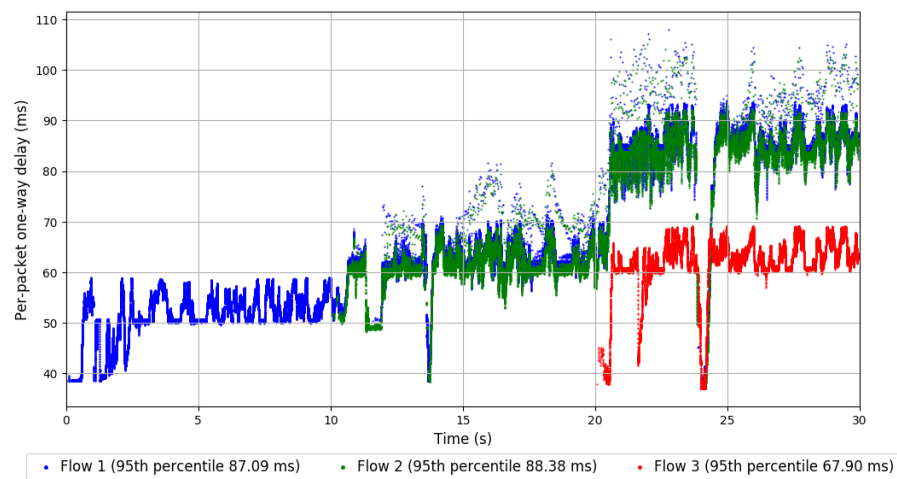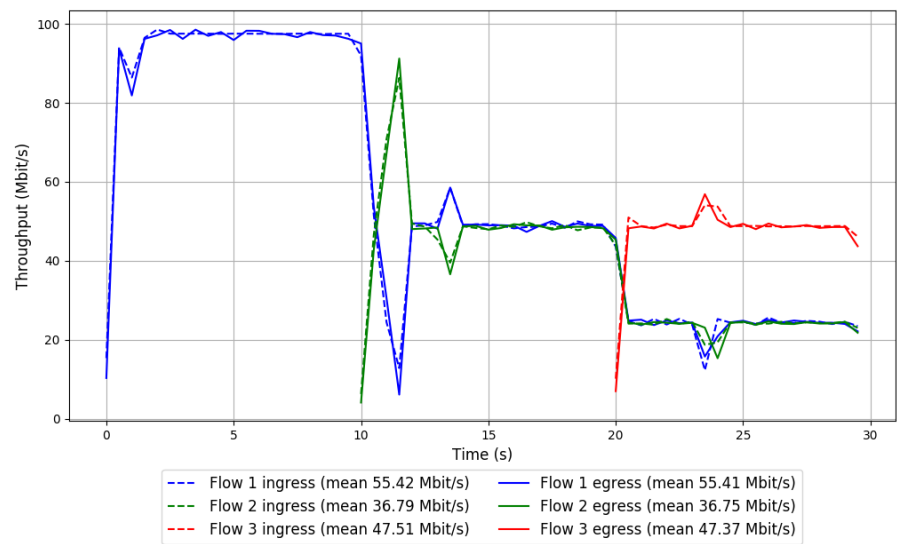| scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	58.34	37.56	32.36	75.09	82.25	79.34	0.89	1.06	1.64
TCP Cubic	10	32.82	29.90	28.25	56.91	60.99	61.82	0.42	0.51	1.02
LEDBAT	10	29.98	21.80	14.36	55.07	55.77	54.22	0.33	0.55	1.28
PCC	10	57.25	34.57	20.23	68.66	62.58	66.35	0.72	1.15	1.34
QUIC Cubic	10	34.13	32.52	30.45	64.25	67.57	64.99	0.49	0.56	1.05
SCReAM	10	0.21	0.21	0.21	39.05	38.91	39.20	0.26	0.28	0.51
WebRTC media	10	2.44	1.56	0.66	40.59	40.85	41.88	0.36	0.72	1.45
Sprout	10	11.76	11.66	11.39	44.81	45.58	45.73	0.42	0.65	1.09
TaoVA-100x	10	50.80	39.29	30.61	71.33	73.46	73.26	0.60	0.86	1.32
TCP Vegas	10	34.61	23.85	33.23	56.56	56.25	57.54	0.36	0.48	0.71
Verus	10	54.23	37.01	29.63	73.85	78.05	78.00	0.64	0.89	1.36
Copa	10	56.10	36.33	25.09	58.16	61.14	65.08	0.61	0.80	1.42
FillP	9	57.98	39.60	35.73	74.82	74.91	71.96	0.58	0.76	1.45
Indigo-1-32	10	58.38	34.81	29.47	50.02	51.29	55.35	0.62	0.89	1.40
Vivace-latency	10	53.23	27.17	14.93	58.11	58.35	56.56	0.53	0.78	1.45
Vivace-loss	10	55.51	33.98	26.93	75.16	75.91	75.12	0.69	1.05	2.25
Vivace-LTE	10	52.65	37.41	15.61	65.70	68.65	75.52	0.54	0.81	1.65

```
Run 1: Statistics of TCP BBR

Start at: 2018-03-20 23:48:20
End at: 2018-03-20 23:48:50
Local clock offset: -0.565 ms
Remote clock offset: -4.017 ms


# Below is generated by plot.py at 2018-03-21 08:47:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.03 Mbit/s
95th percentile per-packet one-way delay: 84.922 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 55.61 Mbit/s
95th percentile per-packet one-way delay: 84.928 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 85.025 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 47.46 Mbit/s
95th percentile per-packet one-way delay: 62.282 ms
Loss rate: 0.95%
```

Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 55.54 Mbit/s) — Flow 1 egress (mean 55.61 Mbit/s)
Flow 2 ingress (mean 35.69 Mbit/s) — Flow 2 egress (mean 35.69 Mbit/s)
Flow 3 ingress (mean 47.53 Mbit/s) — Flow 3 egress (mean 47.46 Mbit/s)

Flow 1 (95th percentile 84.93 ms) · Flow 2 (95th percentile 85.03 ms) · Flow 3 (95th percentile 62.28 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2018-03-21 00:13:11
End at: 2018-03-21 00:13:41
Local clock offset: -0.154 ms
Remote clock offset: -5.294 ms


# Below is generated by plot.py at 2018-03-21 08:47:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.49 Mbit/s
95th percentile per-packet one-way delay: 86.992 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 55.41 Mbit/s
95th percentile per-packet one-way delay: 87.086 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 36.75 Mbit/s
95th percentile per-packet one-way delay: 88.383 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 47.37 Mbit/s
95th percentile per-packet one-way delay: 67.899 ms
Loss rate: 1.08%
```
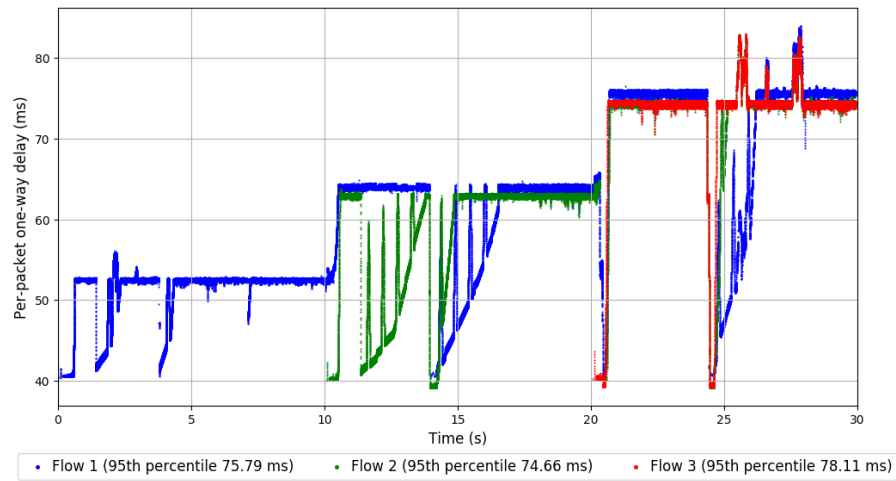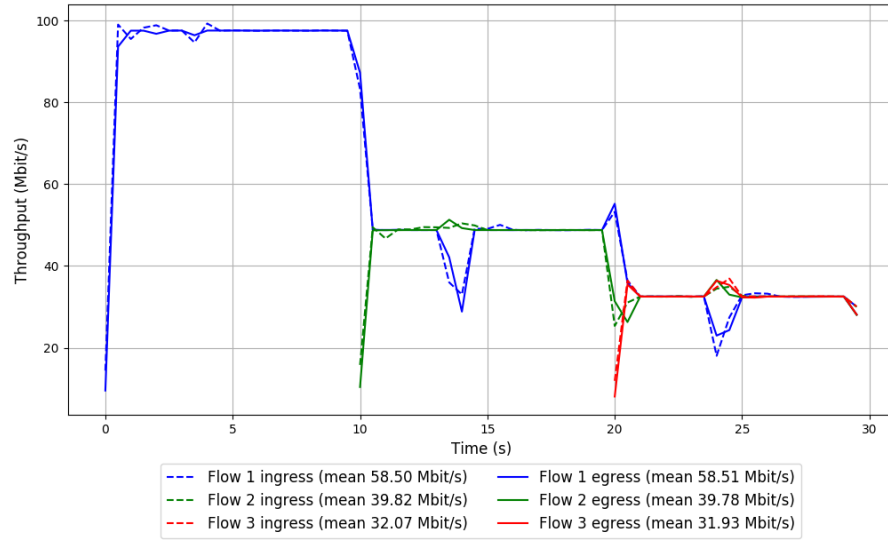
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2018-03-21 00:38:27
End at: 2018-03-21 00:38:57
Local clock offset: 0.357 ms
Remote clock offset: -8.08 ms


# Below is generated by plot.py at 2018-03-21 08:47:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 75.772 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 58.51 Mbit/s
95th percentile per-packet one-way delay: 75.789 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 74.660 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 78.115 ms
Loss rate: 1.14%
```
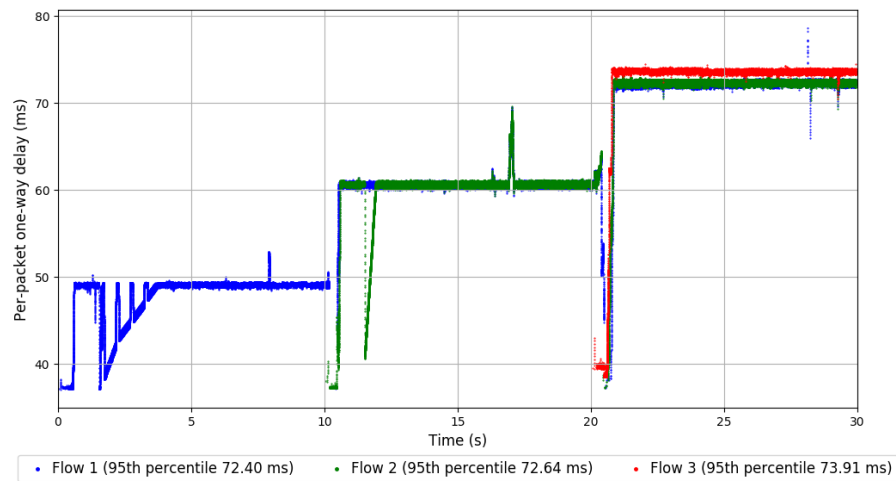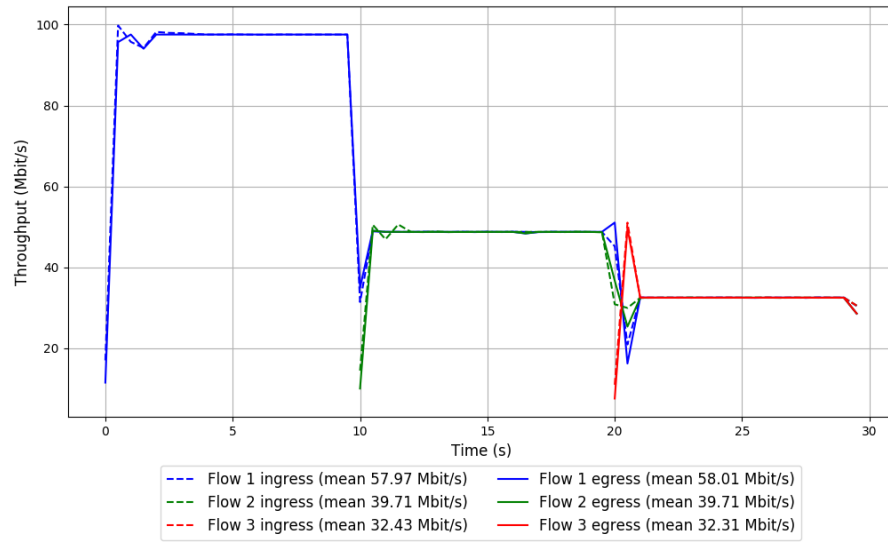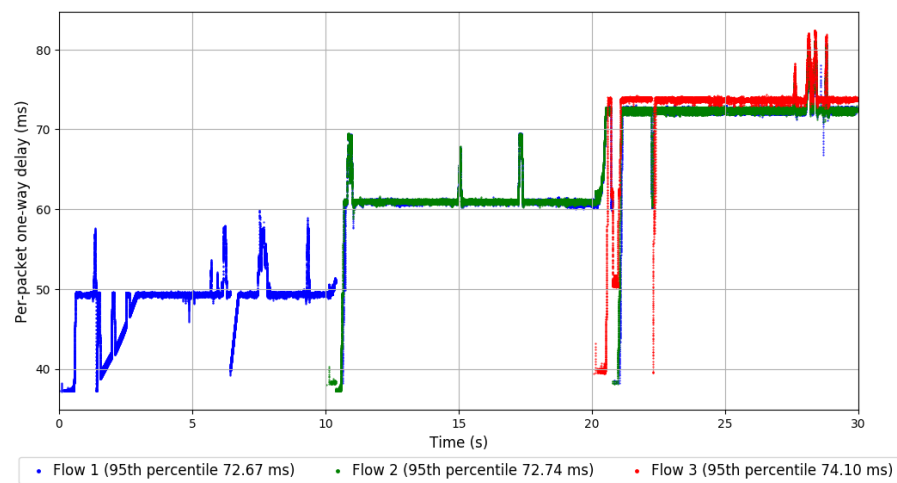
Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2018-03-21 01:03:18
End at: 2018-03-21 01:03:48
Local clock offset: 0.676 ms
Remote clock offset: -3.52 ms


# Below is generated by plot.py at 2018-03-21 08:47:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 73.680 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 72.403 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 39.71 Mbit/s
95th percentile per-packet one-way delay: 72.635 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 73.905 ms
Loss rate: 1.04%
```
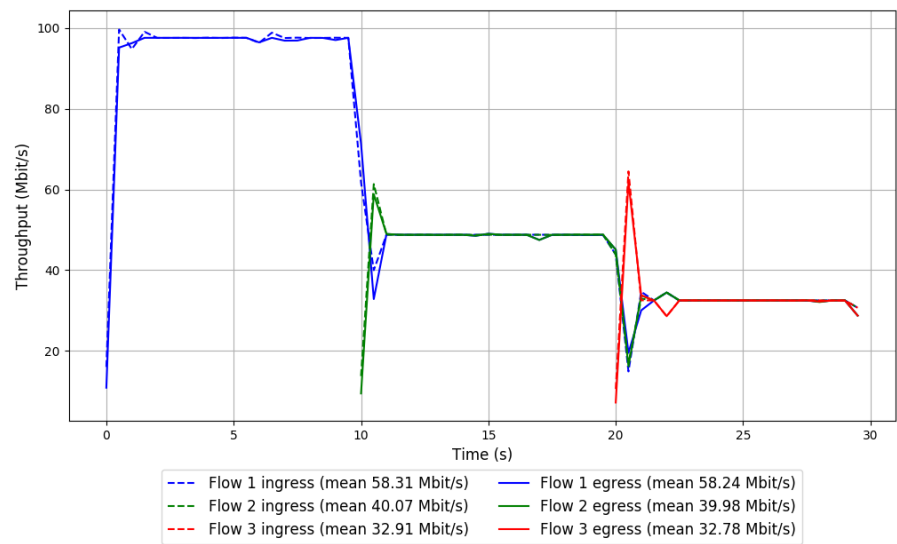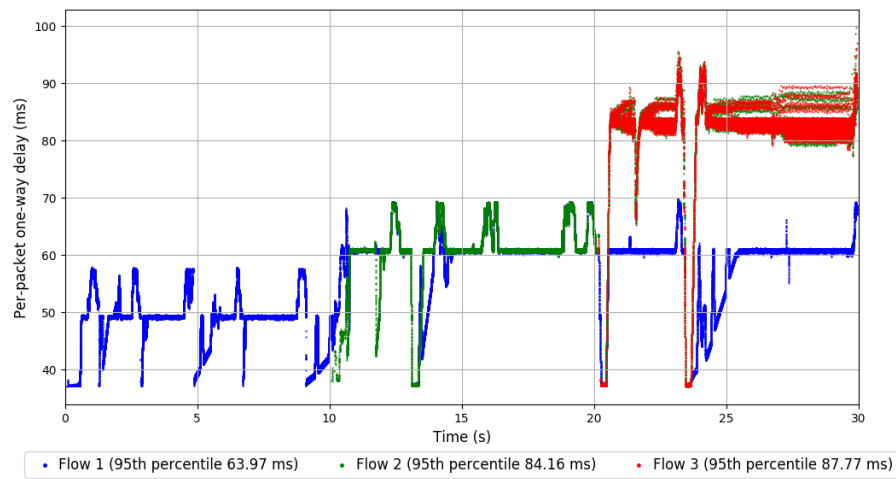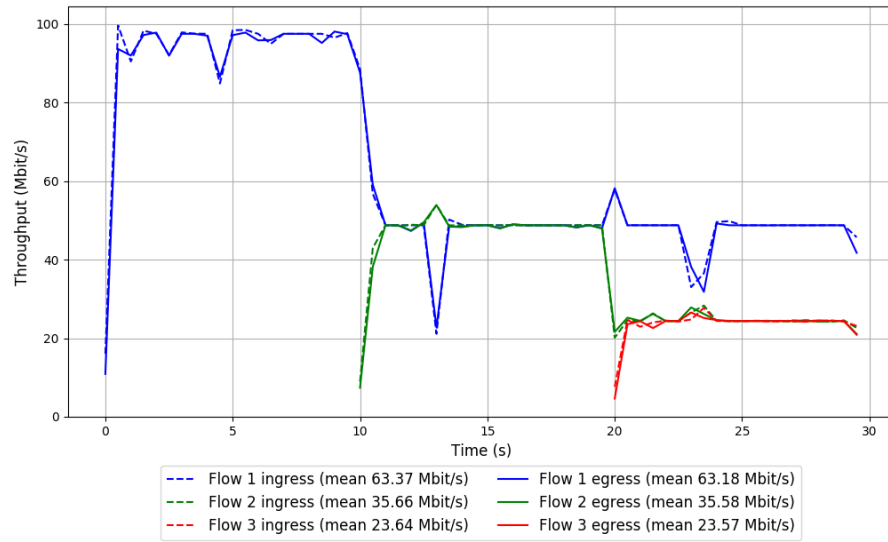
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 57.97 Mbit/s) --- Flow 1 egress (mean 58.01 Mbit/s)
Flow 2 ingress (mean 39.71 Mbit/s) --- Flow 2 egress (mean 39.71 Mbit/s)
Flow 3 ingress (mean 32.43 Mbit/s) --- Flow 3 egress (mean 32.31 Mbit/s)

• Flow 1 (95th percentile 72.40 ms)   • Flow 2 (95th percentile 72.64 ms)   • Flow 3 (95th percentile 73.91 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2018-03-21 01:28:10
End at: 2018-03-21 01:28:40
Local clock offset: -0.401 ms
Remote clock offset: -2.807 ms


# Below is generated by plot.py at 2018-03-21 08:47:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 73.832 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 58.24 Mbit/s
95th percentile per-packet one-way delay: 72.667 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 39.98 Mbit/s
95th percentile per-packet one-way delay: 72.740 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 74.102 ms
Loss rate: 1.07%
```

Run 5: Report of TCP BBR — Data Link

```
Run 6: Statistics of TCP BBR

Start at: 2018-03-21 01:53:06
End at: 2018-03-21 01:53:36
Local clock offset: -0.478 ms
Remote clock offset: -3.109 ms


# Below is generated by plot.py at 2018-03-21 08:47:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.62 Mbit/s
95th percentile per-packet one-way delay: 83.674 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 63.18 Mbit/s
95th percentile per-packet one-way delay: 63.970 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: 84.163 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 87.766 ms
Loss rate: 1.47%
```
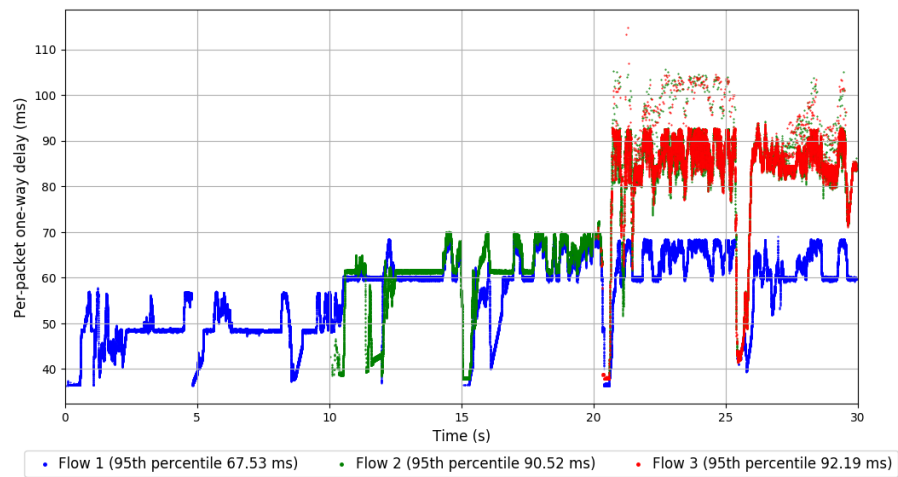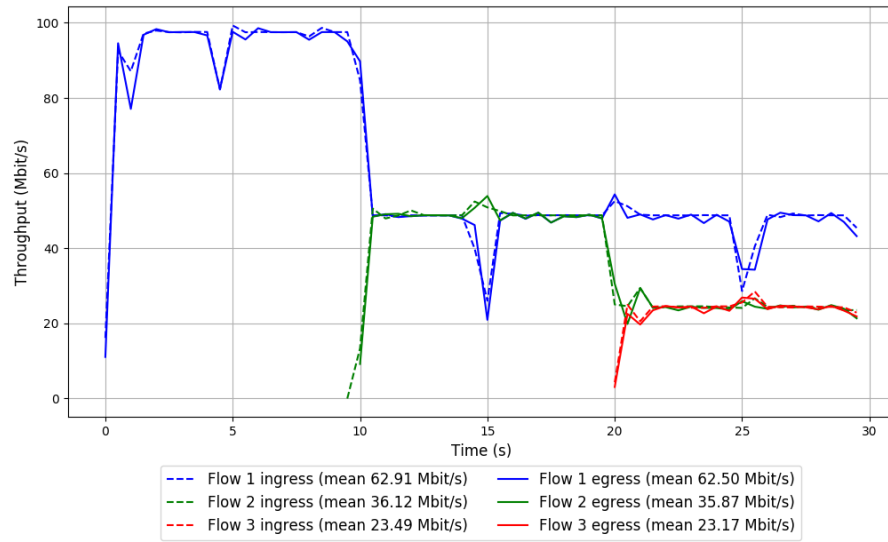
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 63.37 Mbit/s) --- Flow 1 egress (mean 63.18 Mbit/s)
Flow 2 ingress (mean 35.66 Mbit/s) --- Flow 2 egress (mean 35.58 Mbit/s)
Flow 3 ingress (mean 23.64 Mbit/s) --- Flow 3 egress (mean 23.57 Mbit/s)

Flow 1 (95th percentile 63.97 ms) · Flow 2 (95th percentile 84.16 ms) · Flow 3 (95th percentile 87.77 ms)
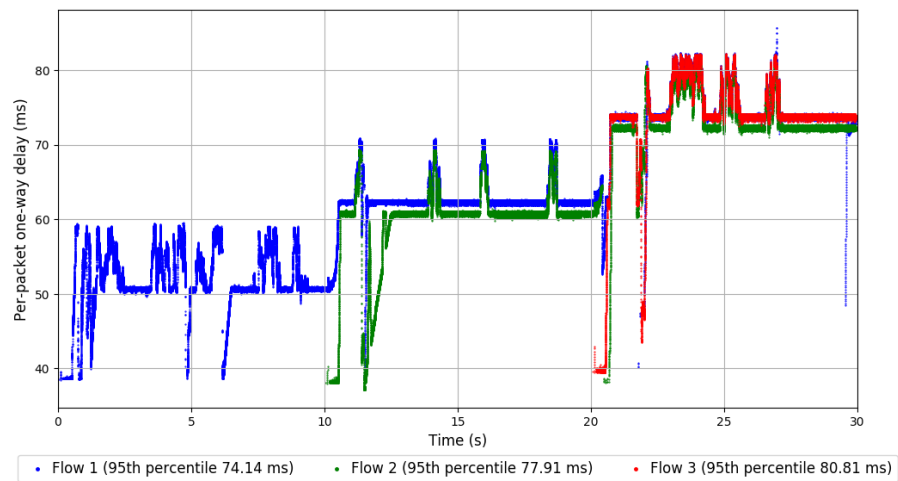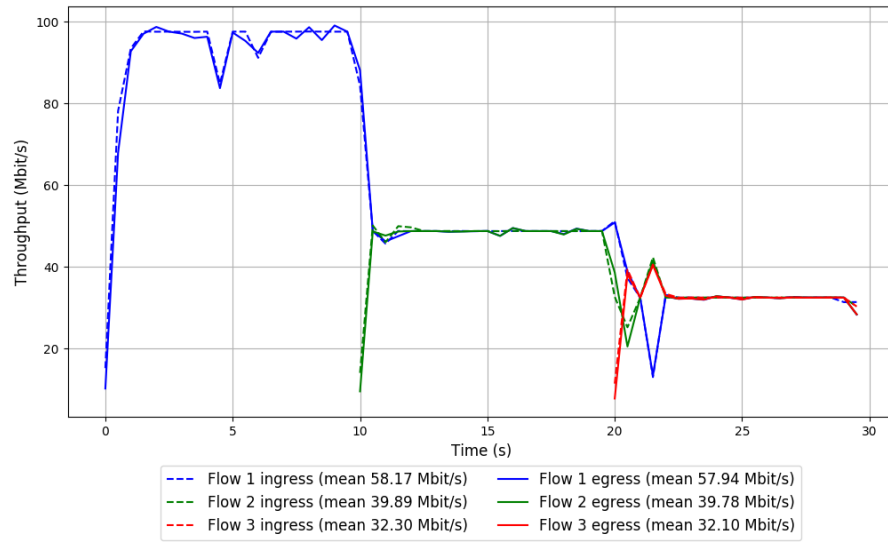
```
Run 7: Statistics of TCP BBR

Start at: 2018-03-21 02:18:32
End at: 2018-03-21 02:19:02
Local clock offset: -0.517 ms
Remote clock offset: -7.01 ms


# Below is generated by plot.py at 2018-03-21 08:47:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 88.315 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 62.50 Mbit/s
95th percentile per-packet one-way delay: 67.527 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 90.524 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 23.17 Mbit/s
95th percentile per-packet one-way delay: 92.186 ms
Loss rate: 2.33%
```
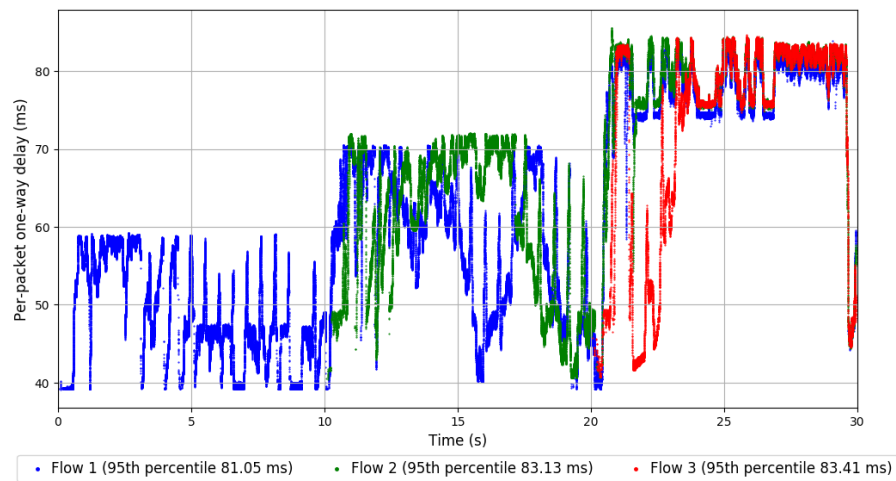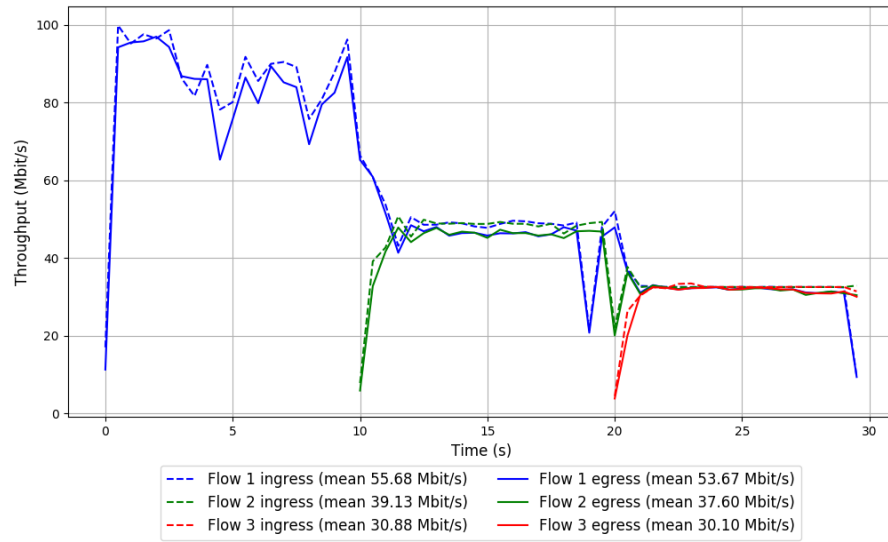
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 62.91 Mbit/s) --- Flow 1 egress (mean 62.50 Mbit/s)
Flow 2 ingress (mean 36.12 Mbit/s) --- Flow 2 egress (mean 35.87 Mbit/s)
Flow 3 ingress (mean 23.49 Mbit/s) --- Flow 3 egress (mean 23.17 Mbit/s)

Flow 1 (95th percentile 67.53 ms)   Flow 2 (95th percentile 90.52 ms)   Flow 3 (95th percentile 92.19 ms)

17

```
Run 8: Statistics of TCP BBR

Start at: 2018-03-21 02:44:19
End at: 2018-03-21 02:44:49
Local clock offset: -0.251 ms
Remote clock offset: -7.213 ms


# Below is generated by plot.py at 2018-03-21 08:47:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 78.043 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 57.94 Mbit/s
95th percentile per-packet one-way delay: 74.145 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 77.907 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 80.815 ms
Loss rate: 1.31%
```
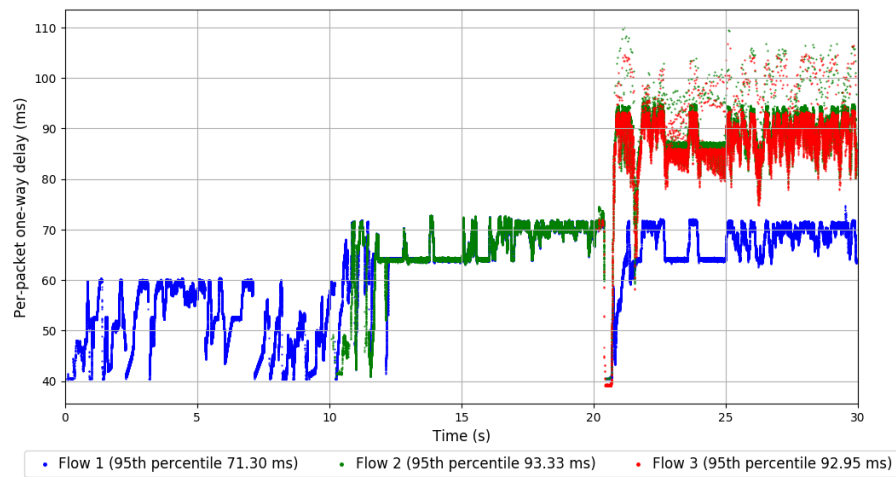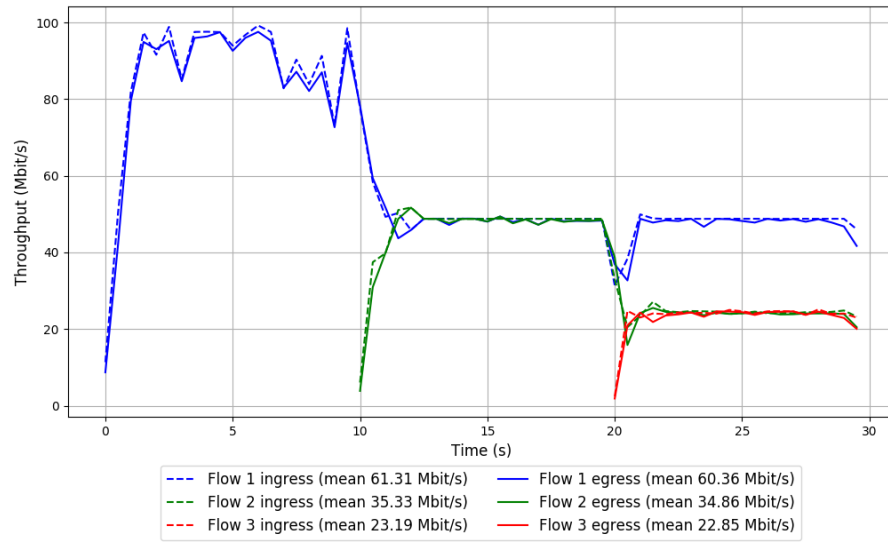
Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 58.17 Mbit/s) —— Flow 1 egress (mean 57.94 Mbit/s)
Flow 2 ingress (mean 39.89 Mbit/s) —— Flow 2 egress (mean 39.78 Mbit/s)
Flow 3 ingress (mean 32.30 Mbit/s) —— Flow 3 egress (mean 32.10 Mbit/s)

• Flow 1 (95th percentile 74.14 ms)   • Flow 2 (95th percentile 77.91 ms)   • Flow 3 (95th percentile 80.81 ms)

19

```
Run 9: Statistics of TCP BBR

Start at: 2018-03-21 03:10:24
End at: 2018-03-21 03:10:54
Local clock offset: -0.336 ms
Remote clock offset: -9.193 ms


# Below is generated by plot.py at 2018-03-21 08:48:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 82.678 ms
Loss rate: 3.88%
-- Flow 1:
Average throughput: 53.67 Mbit/s
95th percentile per-packet one-way delay: 81.049 ms
Loss rate: 3.83%
-- Flow 2:
Average throughput: 37.60 Mbit/s
95th percentile per-packet one-way delay: 83.131 ms
Loss rate: 4.23%
-- Flow 3:
Average throughput: 30.10 Mbit/s
95th percentile per-packet one-way delay: 83.413 ms
Loss rate: 3.24%
```
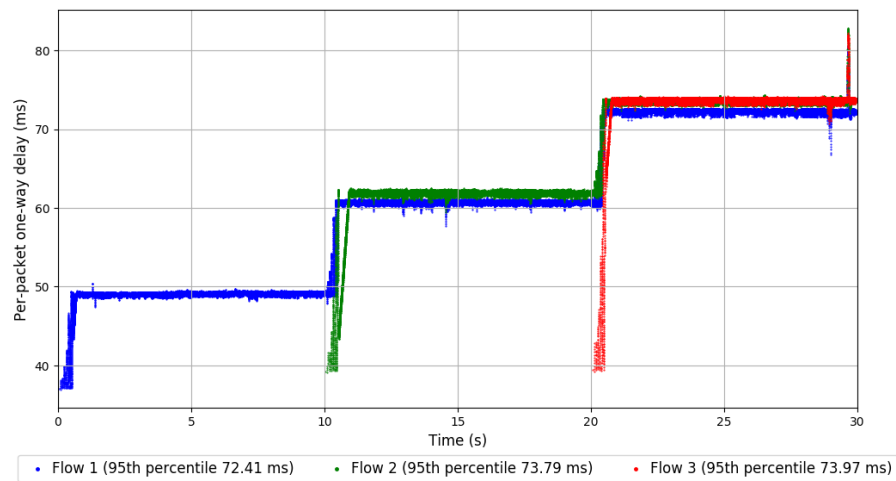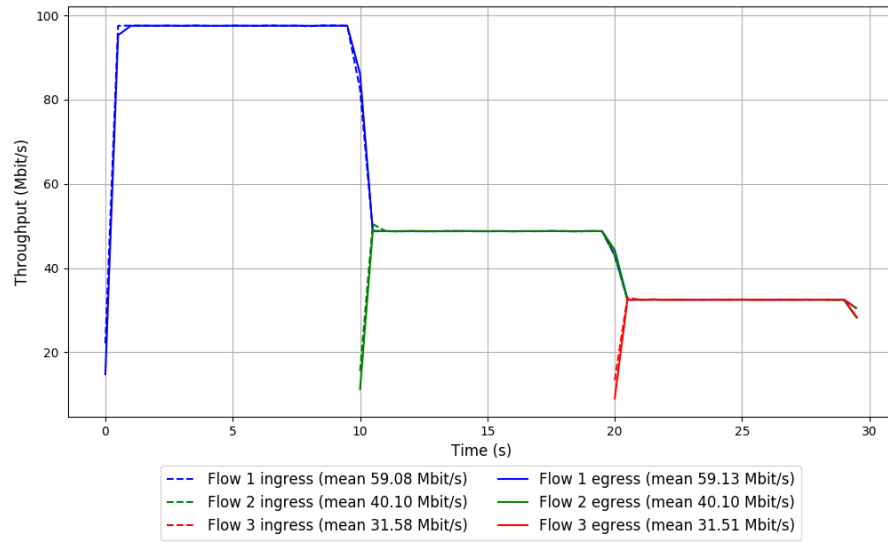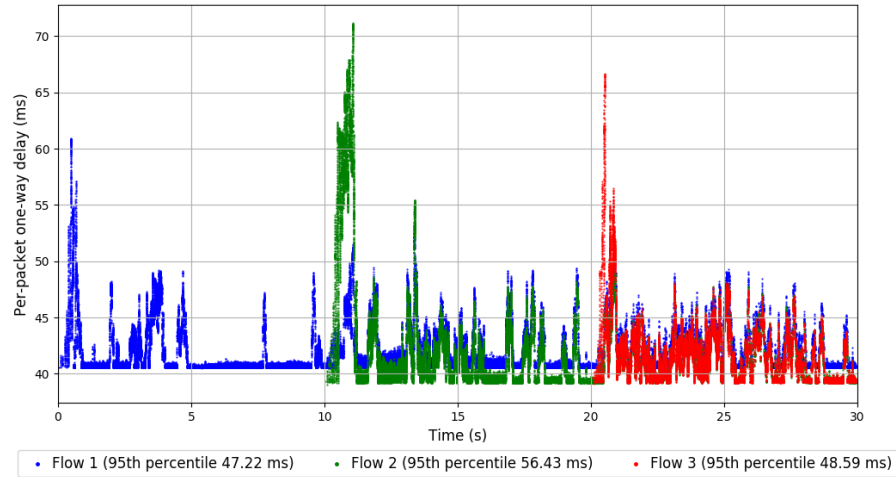
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 55.68 Mbit/s) --- Flow 1 egress (mean 53.67 Mbit/s)
Flow 2 ingress (mean 39.13 Mbit/s) --- Flow 2 egress (mean 37.60 Mbit/s)
Flow 3 ingress (mean 30.88 Mbit/s) --- Flow 3 egress (mean 30.10 Mbit/s)

Flow 1 (95th percentile 81.05 ms)   Flow 2 (95th percentile 83.13 ms)   Flow 3 (95th percentile 83.41 ms)

21

```
Run 10: Statistics of TCP BBR

Start at: 2018-03-21 03:35:59
End at: 2018-03-21 03:36:29
Local clock offset: -0.177 ms
Remote clock offset: -9.406 ms


# Below is generated by plot.py at 2018-03-21 08:48:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.06 Mbit/s
95th percentile per-packet one-way delay: 91.059 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 60.36 Mbit/s
95th percentile per-packet one-way delay: 71.301 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 34.86 Mbit/s
95th percentile per-packet one-way delay: 93.335 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 92.950 ms
Loss rate: 2.76%
```
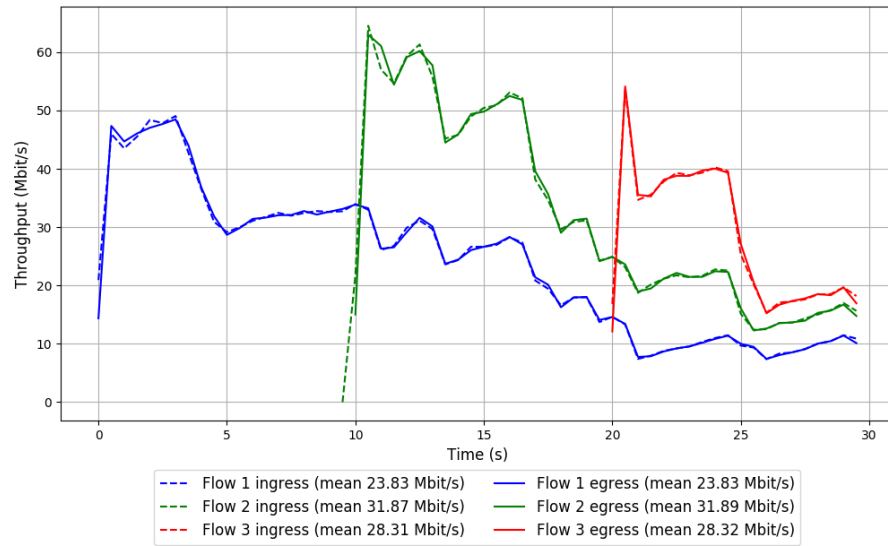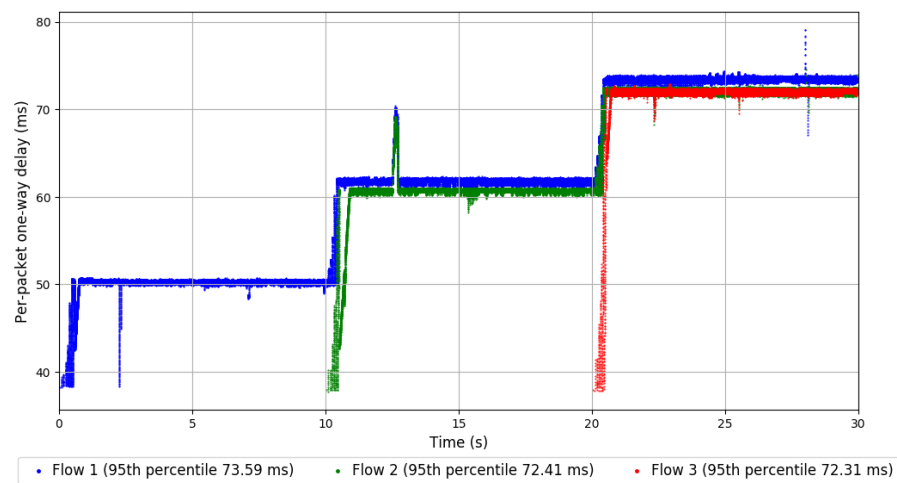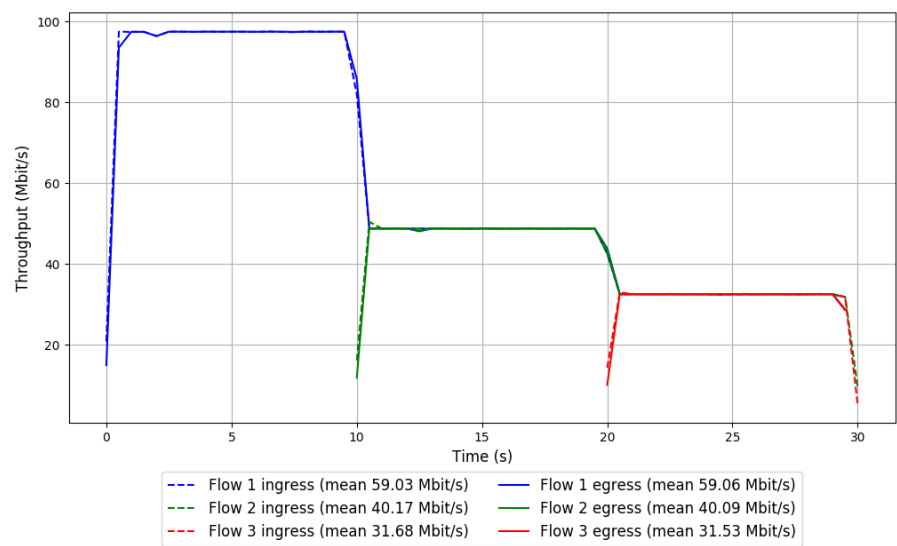
Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 61.31 Mbit/s) --- Flow 1 egress (mean 60.36 Mbit/s)
Flow 2 ingress (mean 35.33 Mbit/s) --- Flow 2 egress (mean 34.86 Mbit/s)
Flow 3 ingress (mean 23.19 Mbit/s) --- Flow 3 egress (mean 22.85 Mbit/s)

Flow 1 (95th percentile 71.30 ms)   Flow 2 (95th percentile 93.33 ms)   Flow 3 (95th percentile 92.95 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2018-03-20 23:58:01
End at: 2018-03-20 23:58:31
Local clock offset: -0.499 ms
Remote clock offset: -3.977 ms

# Below is generated by plot.py at 2018-03-21 08:48:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 73.795 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 59.13 Mbit/s
95th percentile per-packet one-way delay: 72.405 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 40.10 Mbit/s
95th percentile per-packet one-way delay: 73.786 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 31.51 Mbit/s
95th percentile per-packet one-way delay: 73.970 ms
Loss rate: 1.09%
```
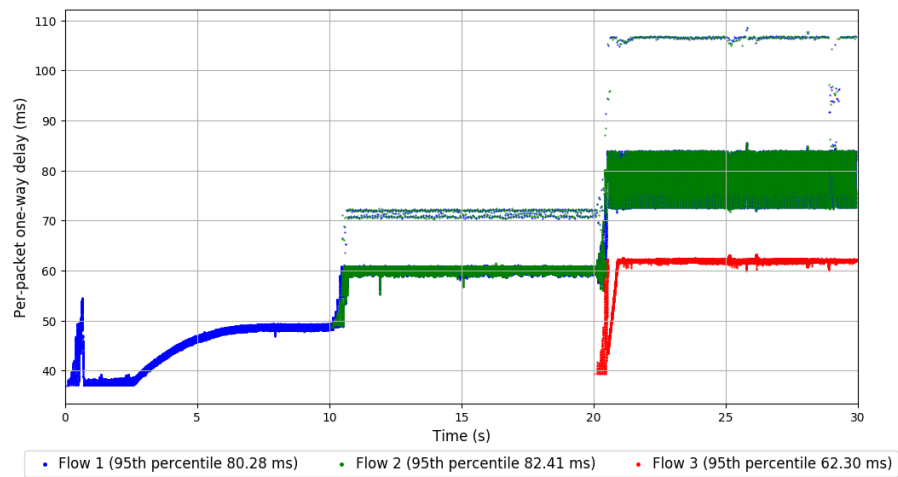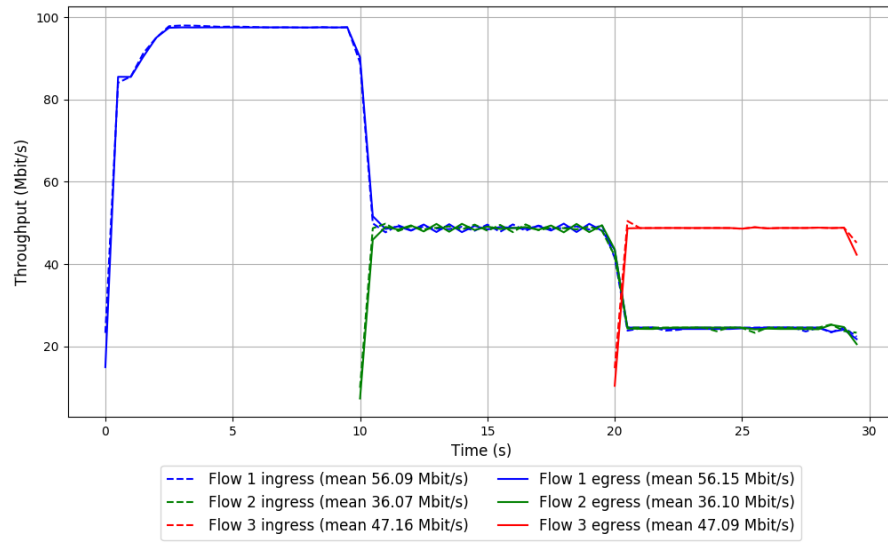
Run 1: Report of TCP Cubic — Data Link

- - - Flow 1 ingress (mean 59.08 Mbit/s) —— Flow 1 egress (mean 59.13 Mbit/s)
- - - Flow 2 ingress (mean 40.10 Mbit/s) —— Flow 2 egress (mean 40.10 Mbit/s)
- - - Flow 3 ingress (mean 31.58 Mbit/s) —— Flow 3 egress (mean 31.51 Mbit/s)

· Flow 1 (95th percentile 72.41 ms)   · Flow 2 (95th percentile 73.79 ms)   · Flow 3 (95th percentile 73.97 ms)
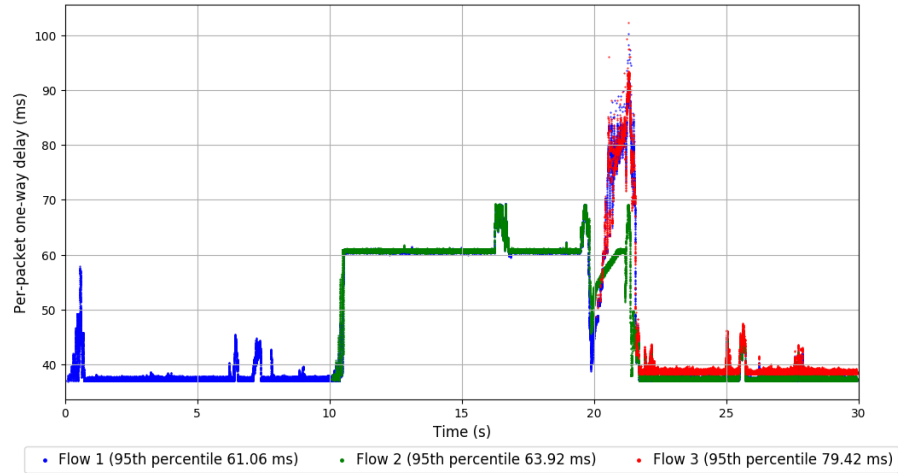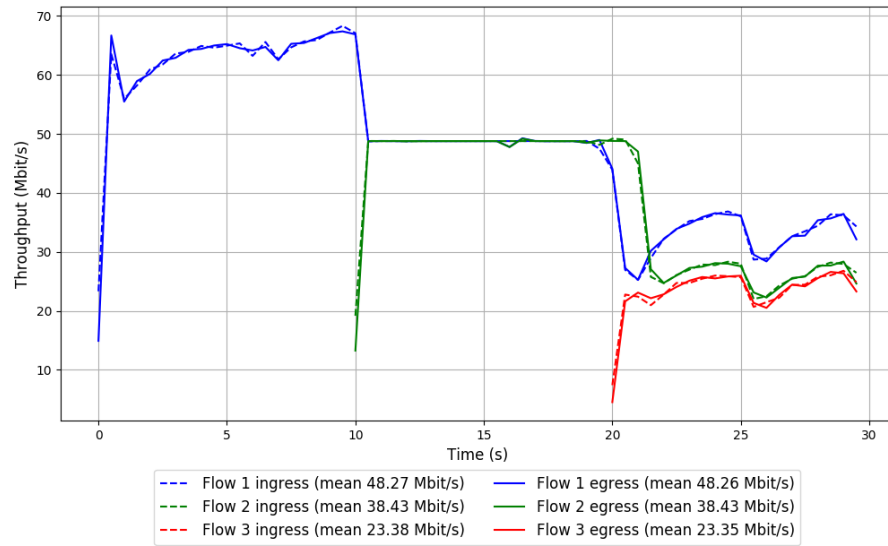
```
Run 2: Statistics of TCP Cubic

Start at: 2018-03-21 00:23:02
End at: 2018-03-21 00:23:32
Local clock offset: -0.037 ms
Remote clock offset: -7.265 ms


# Below is generated by plot.py at 2018-03-21 08:48:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.42 Mbit/s
95th percentile per-packet one-way delay: 48.190 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 47.224 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 56.426 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 28.32 Mbit/s
95th percentile per-packet one-way delay: 48.588 ms
Loss rate: 0.63%
```

Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 23.83 Mbit/s)   Flow 1 egress (mean 23.83 Mbit/s)
Flow 2 ingress (mean 31.87 Mbit/s)   Flow 2 egress (mean 31.89 Mbit/s)
Flow 3 ingress (mean 28.31 Mbit/s)   Flow 3 egress (mean 28.32 Mbit/s)

Flow 1 (95th percentile 47.22 ms)   Flow 2 (95th percentile 56.43 ms)   Flow 3 (95th percentile 48.59 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2018-03-21 00:48:11
End at: 2018-03-21 00:48:41
Local clock offset: 0.397 ms
Remote clock offset: -6.885 ms

# Below is generated by plot.py at 2018-03-21 08:48:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 73.497 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 59.06 Mbit/s
95th percentile per-packet one-way delay: 73.588 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 40.09 Mbit/s
95th percentile per-packet one-way delay: 72.405 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 31.53 Mbit/s
95th percentile per-packet one-way delay: 72.309 ms
Loss rate: 2.04%
```
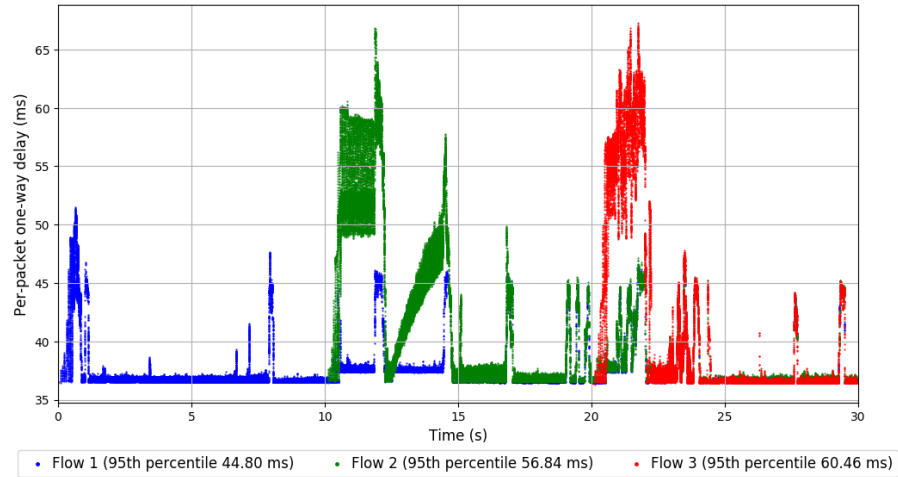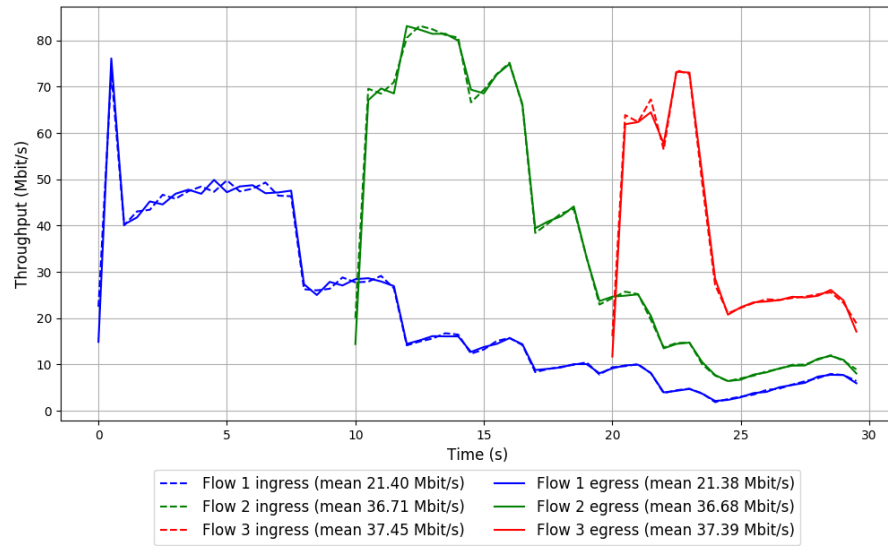
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 59.03 Mbit/s)　　Flow 1 egress (mean 59.06 Mbit/s)
Flow 2 ingress (mean 40.17 Mbit/s)　　Flow 2 egress (mean 40.09 Mbit/s)
Flow 3 ingress (mean 31.68 Mbit/s)　　Flow 3 egress (mean 31.53 Mbit/s)

Flow 1 (95th percentile 73.59 ms)　　Flow 2 (95th percentile 72.41 ms)　　Flow 3 (95th percentile 72.31 ms)

29

```
Run 4: Statistics of TCP Cubic

Start at: 2018-03-21 01:13:02
End at: 2018-03-21 01:13:32
Local clock offset: -0.104 ms
Remote clock offset: -2.994 ms


# Below is generated by plot.py at 2018-03-21 08:48:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 80.820 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 56.15 Mbit/s
95th percentile per-packet one-way delay: 80.283 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 36.10 Mbit/s
95th percentile per-packet one-way delay: 82.407 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 47.09 Mbit/s
95th percentile per-packet one-way delay: 62.297 ms
Loss rate: 0.95%
```
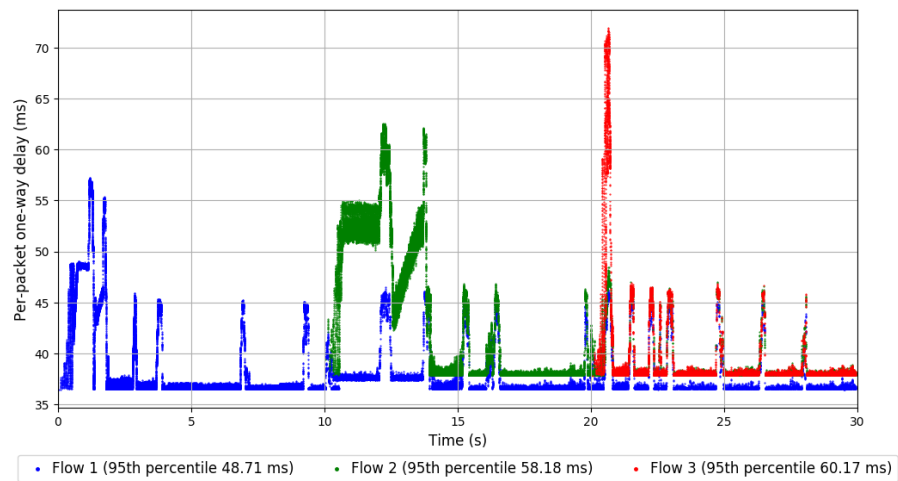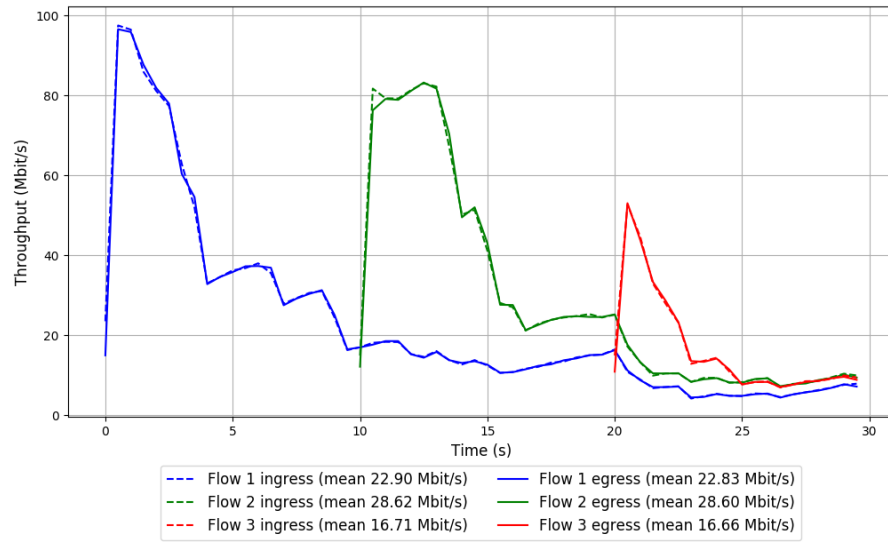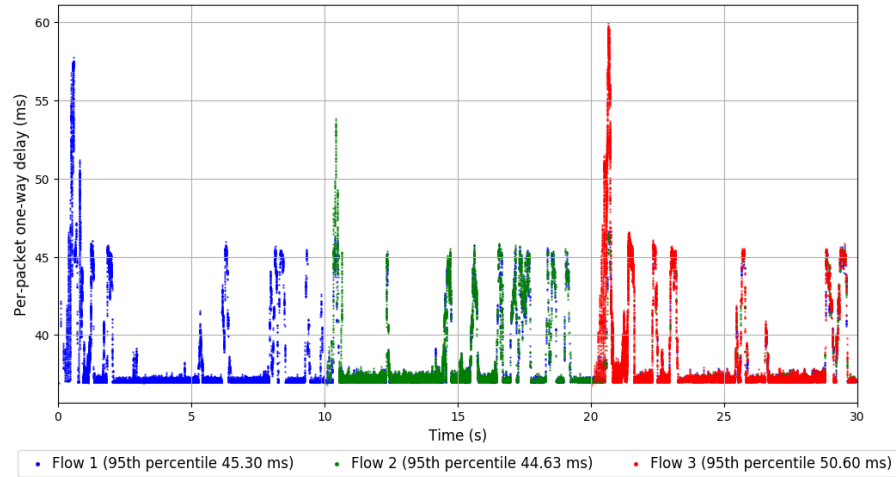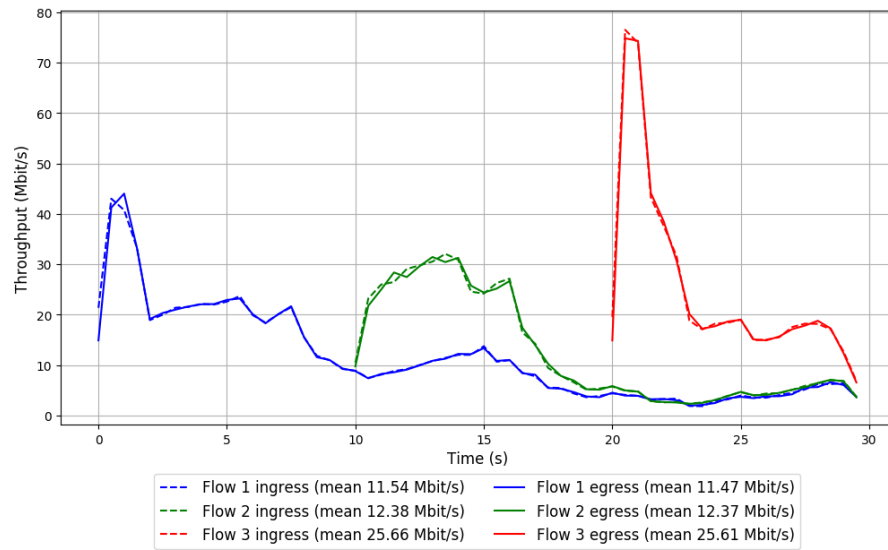
Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 56.09 Mbit/s) --- Flow 1 egress (mean 56.15 Mbit/s)
Flow 2 ingress (mean 36.07 Mbit/s) --- Flow 2 egress (mean 36.10 Mbit/s)
Flow 3 ingress (mean 47.16 Mbit/s) --- Flow 3 egress (mean 47.09 Mbit/s)

Flow 1 (95th percentile 80.28 ms)   Flow 2 (95th percentile 82.41 ms)   Flow 3 (95th percentile 62.30 ms)

31

```
Run 5: Statistics of TCP Cubic

Start at: 2018-03-21 01:37:54
End at: 2018-03-21 01:38:24
Local clock offset: -0.569 ms
Remote clock offset: -2.612 ms


# Below is generated by plot.py at 2018-03-21 08:48:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.54 Mbit/s
95th percentile per-packet one-way delay: 63.898 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 48.26 Mbit/s
95th percentile per-packet one-way delay: 61.059 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 38.43 Mbit/s
95th percentile per-packet one-way delay: 63.921 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 79.420 ms
Loss rate: 0.88%
```

Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 48.27 Mbit/s) — Flow 1 egress (mean 48.26 Mbit/s)
Flow 2 ingress (mean 38.43 Mbit/s) — Flow 2 egress (mean 38.43 Mbit/s)
Flow 3 ingress (mean 23.38 Mbit/s) — Flow 3 egress (mean 23.35 Mbit/s)

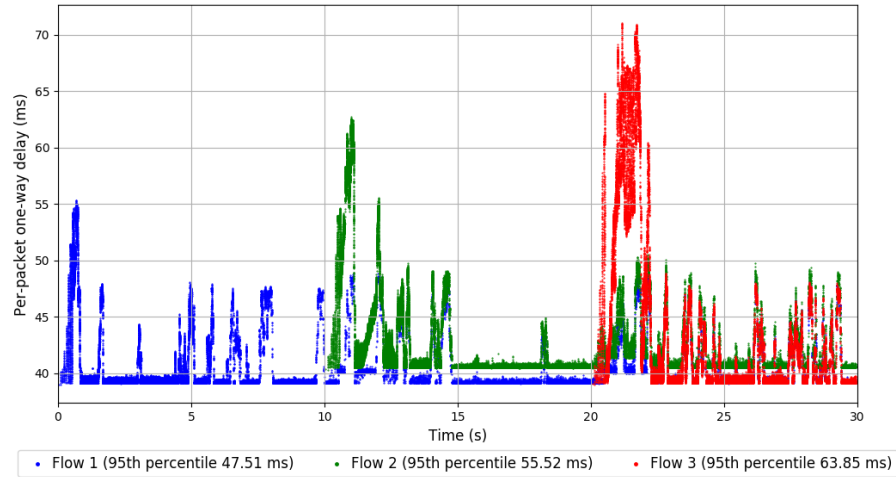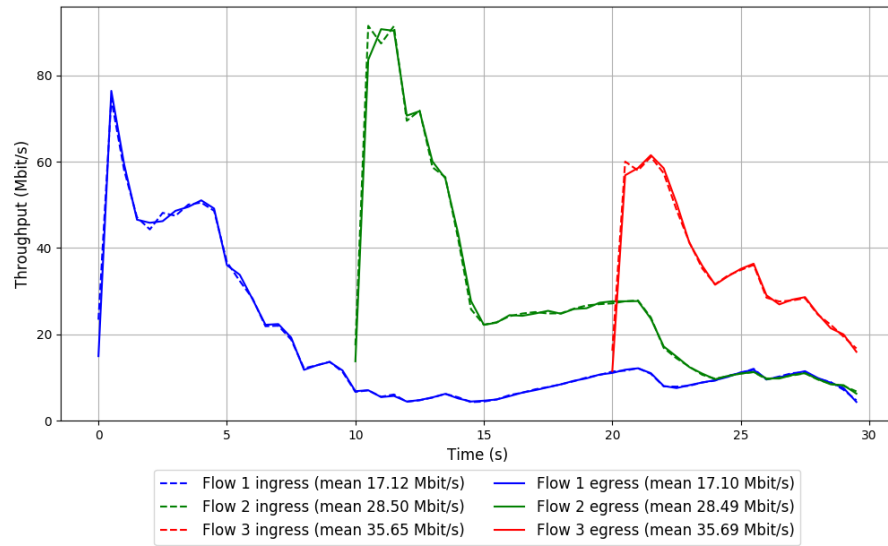Flow 1 (95th percentile 61.06 ms) • Flow 2 (95th percentile 63.92 ms) • Flow 3 (95th percentile 79.42 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-03-21 02:02:57
End at: 2018-03-21 02:03:27
Local clock offset: -0.63 ms
Remote clock offset: -4.228 ms


# Below is generated by plot.py at 2018-03-21 08:48:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 56.913 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 44.796 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 56.844 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 60.460 ms
Loss rate: 0.82%
```
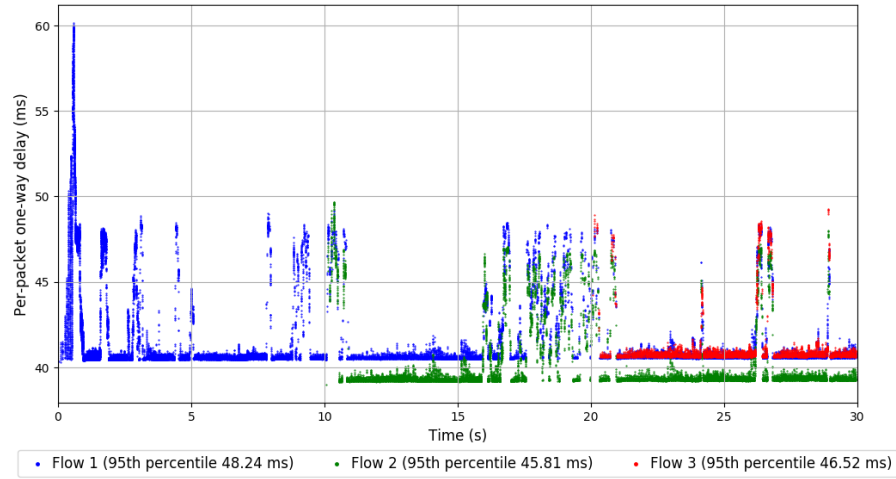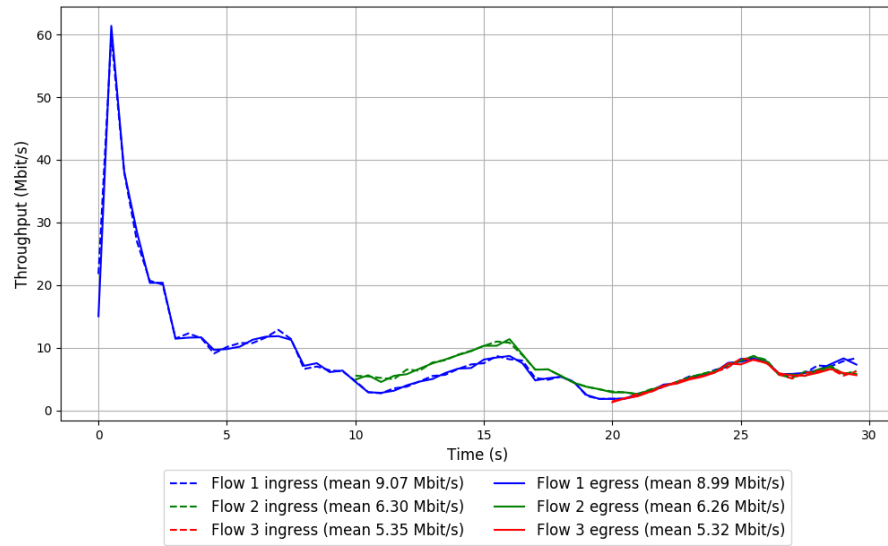
Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: 2018-03-21 02:28:41
End at: 2018-03-21 02:29:11
Local clock offset: -0.398 ms
Remote clock offset: -8.339 ms


# Below is generated by plot.py at 2018-03-21 08:48:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.35 Mbit/s
95th percentile per-packet one-way delay: 54.443 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 48.710 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 58.177 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 60.171 ms
Loss rate: 1.03%
```
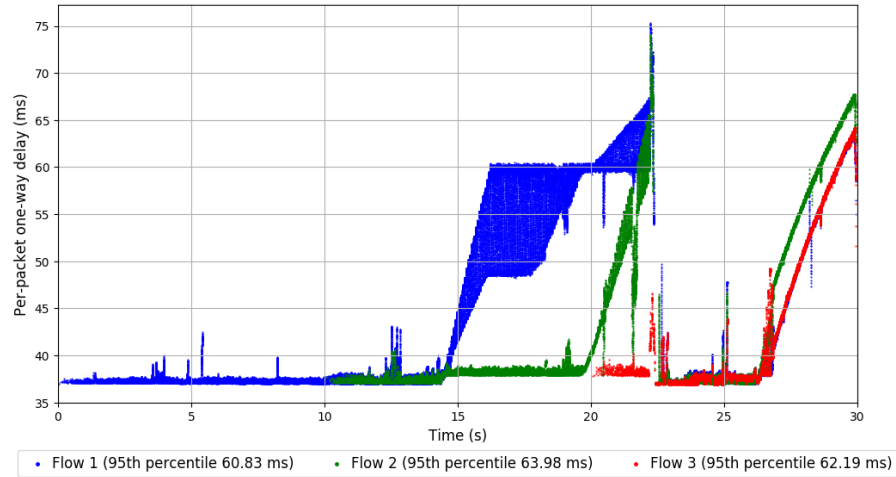
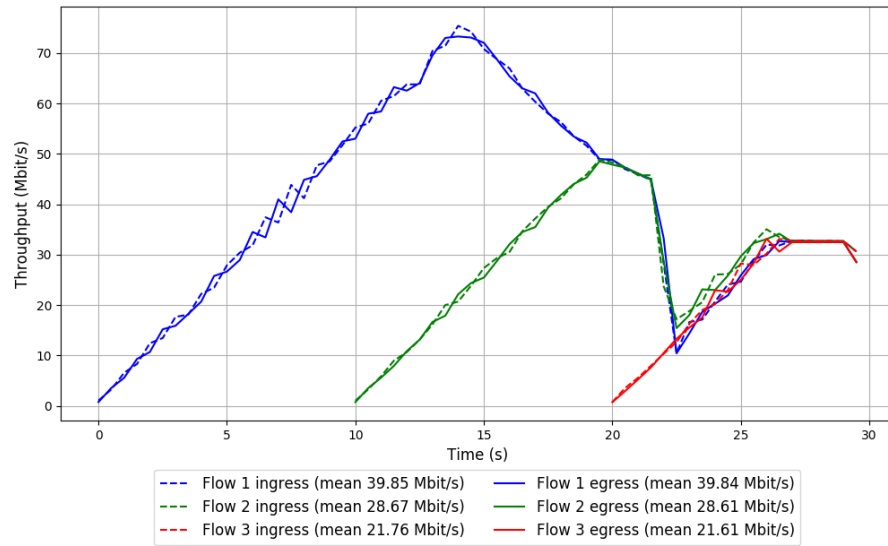Run 7: Report of TCP Cubic — Data Link

```
Run 8: Statistics of TCP Cubic

Start at: 2018-03-21 02:54:19
End at: 2018-03-21 02:54:49
Local clock offset: -0.367 ms
Remote clock offset: -6.856 ms


# Below is generated by plot.py at 2018-03-21 08:48:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.16 Mbit/s
95th percentile per-packet one-way delay: 45.403 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 45.298 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 12.37 Mbit/s
95th percentile per-packet one-way delay: 44.635 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 25.61 Mbit/s
95th percentile per-packet one-way delay: 50.604 ms
Loss rate: 0.86%
```

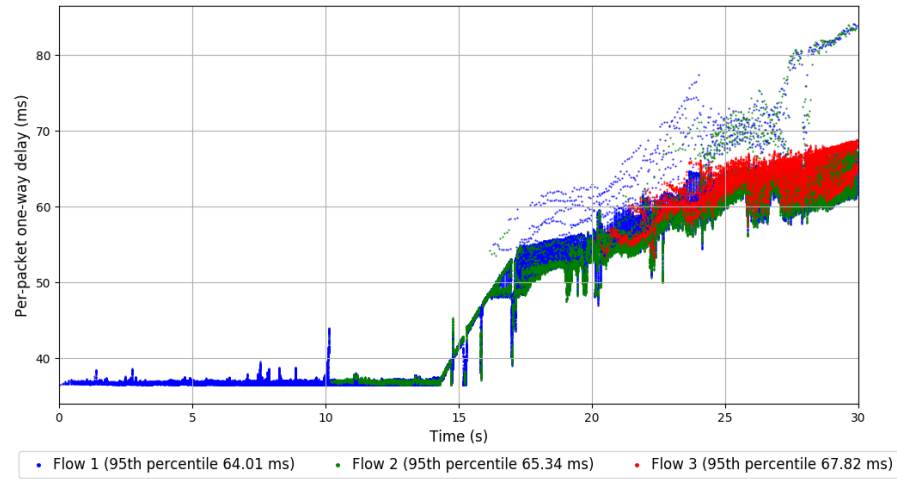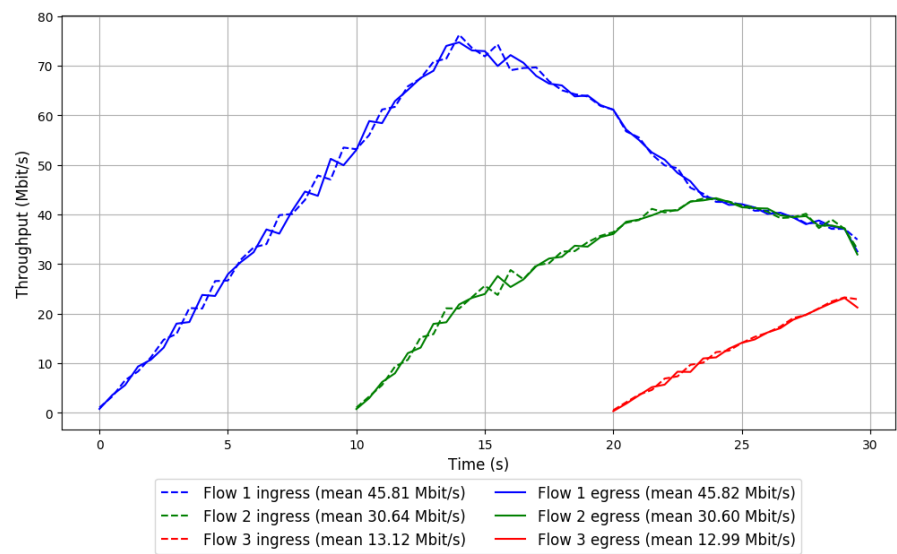Run 8: Report of TCP Cubic — Data Link

```
Run 9: Statistics of TCP Cubic

Start at: 2018-03-21 03:20:57
End at: 2018-03-21 03:21:27
Local clock offset: -0.431 ms
Remote clock offset: -9.062 ms


# Below is generated by plot.py at 2018-03-21 08:49:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.84 Mbit/s
95th percentile per-packet one-way delay: 56.386 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 17.10 Mbit/s
95th percentile per-packet one-way delay: 47.508 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 55.516 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 63.848 ms
Loss rate: 0.56%
```

Run 9: Report of TCP Cubic — Data Link

```
Run 10: Statistics of TCP Cubic

Start at: 2018-03-21 03:46:35
End at: 2018-03-21 03:47:05
Local clock offset: -0.157 ms
Remote clock offset: -7.858 ms


# Below is generated by plot.py at 2018-03-21 08:49:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.91 Mbit/s
95th percentile per-packet one-way delay: 47.793 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 48.244 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 45.811 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 46.518 ms
Loss rate: 1.31%
```

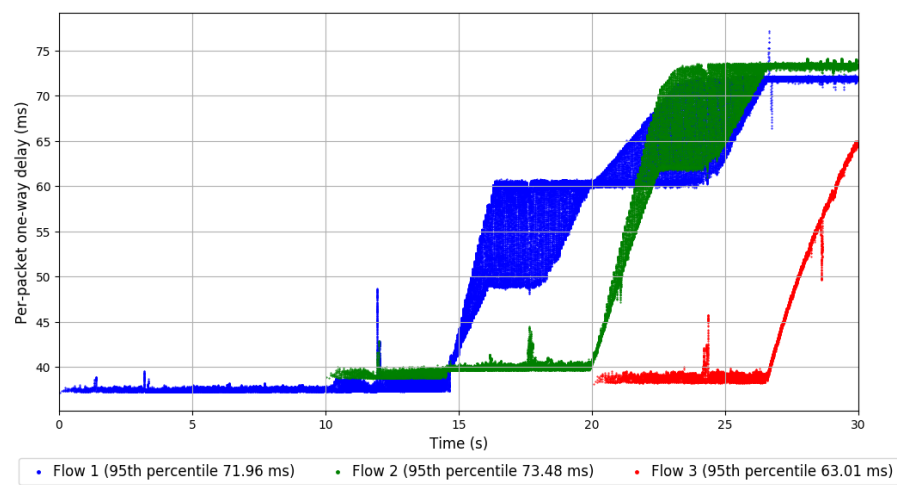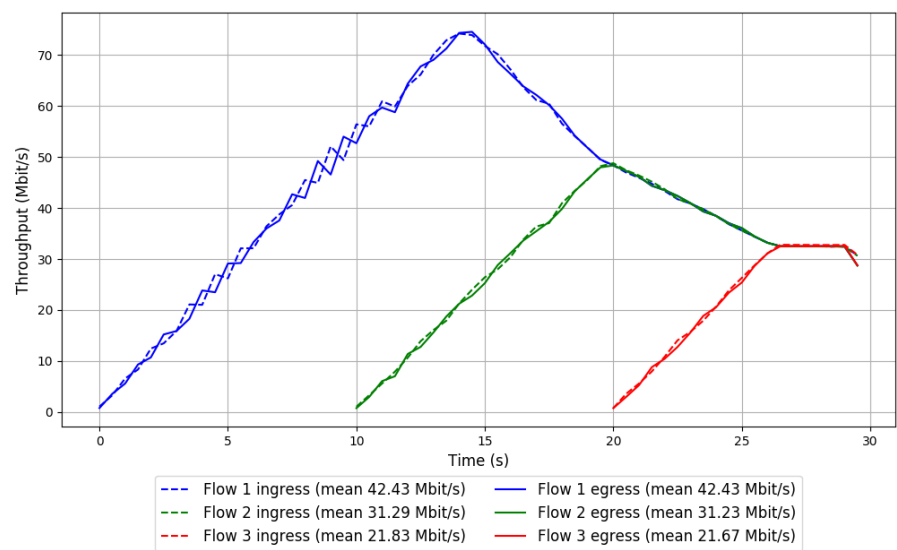Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2018-03-21 00:04:47
End at: 2018-03-21 00:05:17
Local clock offset: -0.174 ms
Remote clock offset: -4.297 ms


# Below is generated by plot.py at 2018-03-21 08:49:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.02 Mbit/s
95th percentile per-packet one-way delay: 61.930 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 60.827 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 28.61 Mbit/s
95th percentile per-packet one-way delay: 63.980 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 21.61 Mbit/s
95th percentile per-packet one-way delay: 62.192 ms
Loss rate: 1.41%
```
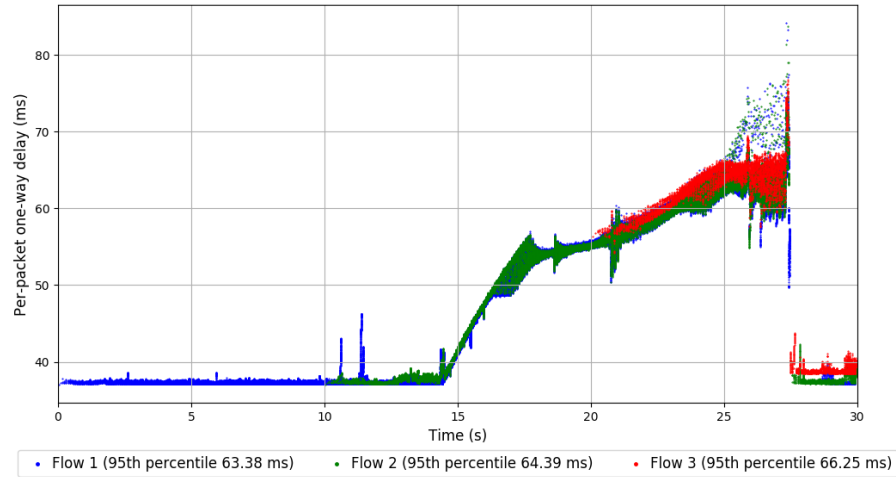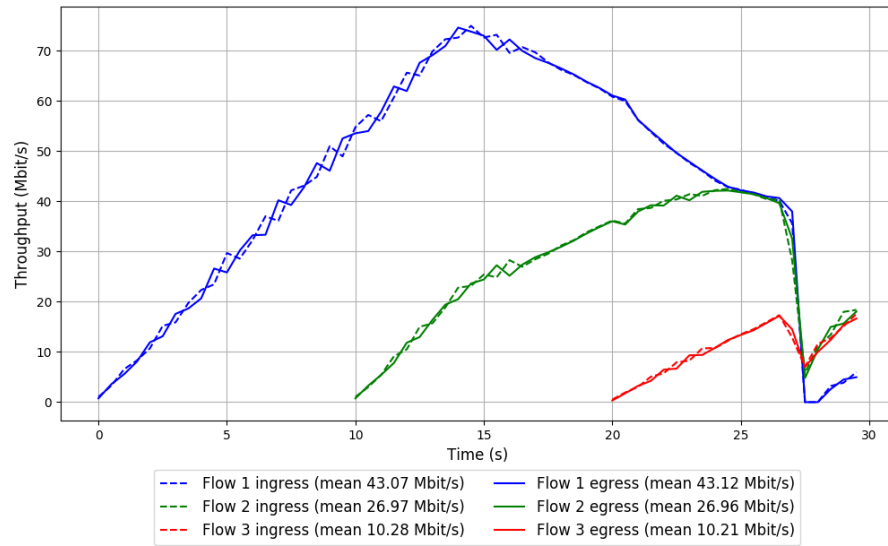
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2018-03-21 00:29:52
End at: 2018-03-21 00:30:22
Local clock offset: -0.016 ms
Remote clock offset: -4.909 ms

# Below is generated by plot.py at 2018-03-21 08:49:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.44 Mbit/s
95th percentile per-packet one-way delay: 65.198 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 45.82 Mbit/s
95th percentile per-packet one-way delay: 64.006 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 30.60 Mbit/s
95th percentile per-packet one-way delay: 65.340 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 12.99 Mbit/s
95th percentile per-packet one-way delay: 67.821 ms
Loss rate: 1.83%
```
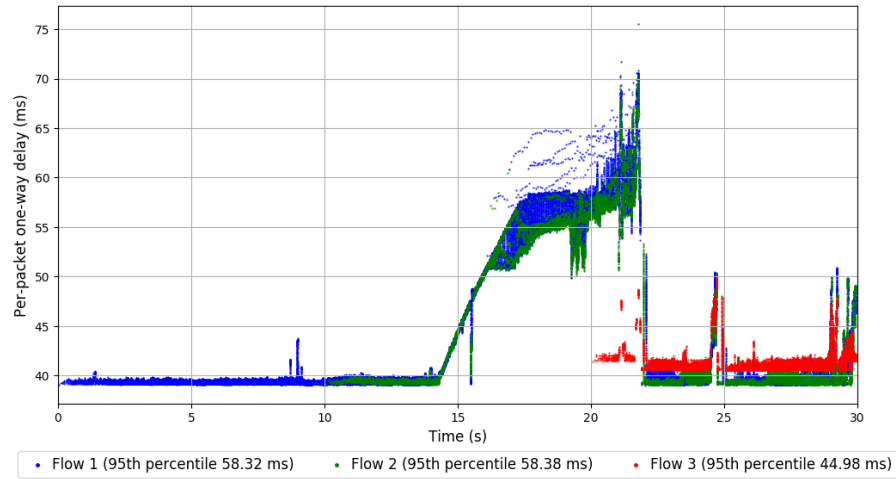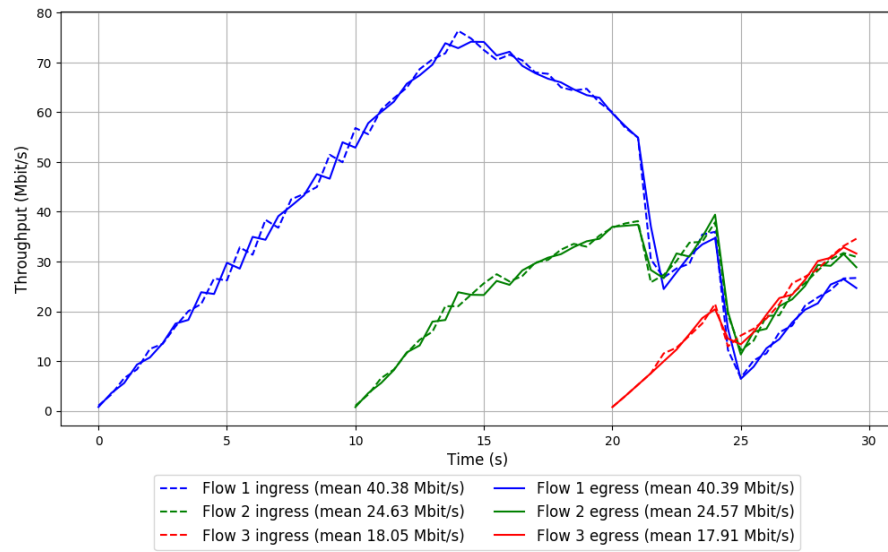
Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 45.81 Mbit/s)   Flow 1 egress (mean 45.82 Mbit/s)
Flow 2 ingress (mean 30.64 Mbit/s)   Flow 2 egress (mean 30.60 Mbit/s)
Flow 3 ingress (mean 13.12 Mbit/s)   Flow 3 egress (mean 12.99 Mbit/s)

Flow 1 (95th percentile 64.01 ms)   Flow 2 (95th percentile 65.34 ms)   Flow 3 (95th percentile 67.82 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2018-03-21 00:54:57
End at: 2018-03-21 00:55:27
Local clock offset: 0.593 ms
Remote clock offset: -5.251 ms


# Below is generated by plot.py at 2018-03-21 08:50:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.37 Mbit/s
95th percentile per-packet one-way delay: 73.260 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 42.43 Mbit/s
95th percentile per-packet one-way delay: 71.959 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 73.478 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 21.67 Mbit/s
95th percentile per-packet one-way delay: 63.012 ms
Loss rate: 1.41%
```
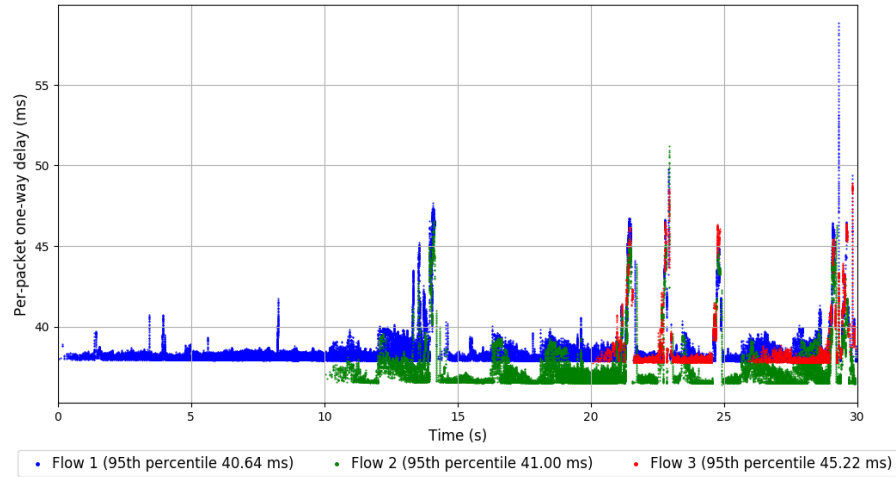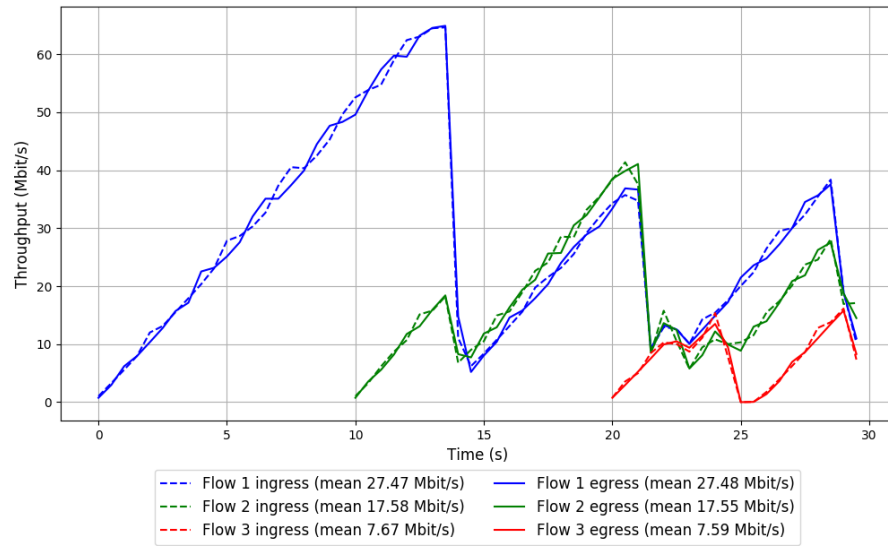
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2018-03-21 01:19:49
End at: 2018-03-21 01:20:19
Local clock offset: -0.267 ms
Remote clock offset: -2.972 ms

# Below is generated by plot.py at 2018-03-21 08:50:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.35 Mbit/s
95th percentile per-packet one-way delay: 64.210 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 63.384 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 26.96 Mbit/s
95th percentile per-packet one-way delay: 64.391 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 66.250 ms
Loss rate: 1.55%
```
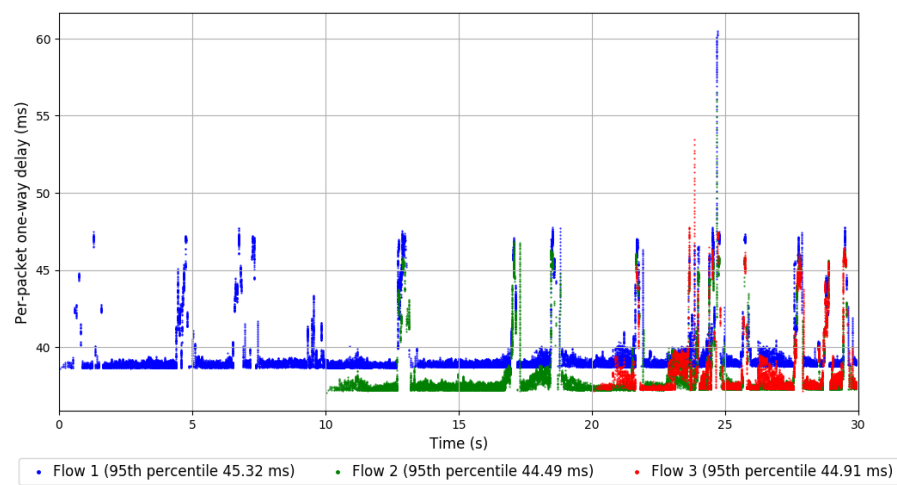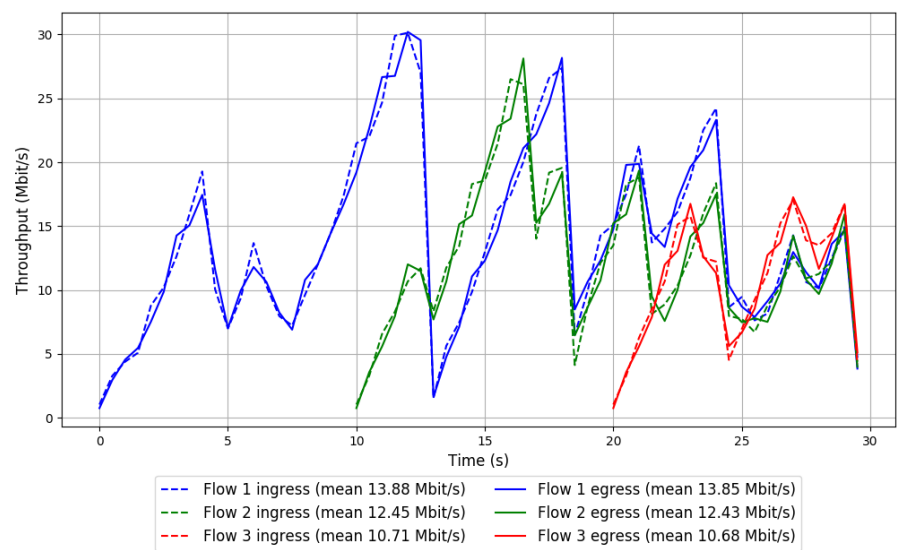
Run 4: Report of LEDBAT — Data Link

- - - - Flow 1 ingress (mean 43.07 Mbit/s) —— Flow 1 egress (mean 43.12 Mbit/s)
- - - - Flow 2 ingress (mean 26.97 Mbit/s) —— Flow 2 egress (mean 26.96 Mbit/s)
- - - - Flow 3 ingress (mean 10.28 Mbit/s) —— Flow 3 egress (mean 10.21 Mbit/s)

• Flow 1 (95th percentile 63.38 ms)   • Flow 2 (95th percentile 64.39 ms)   • Flow 3 (95th percentile 66.25 ms)

51

```
Run 5: Statistics of LEDBAT

Start at: 2018-03-21 01:44:40
End at: 2018-03-21 01:45:10
Local clock offset: -0.488 ms
Remote clock offset: -4.781 ms


# Below is generated by plot.py at 2018-03-21 08:50:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.64 Mbit/s
95th percentile per-packet one-way delay: 58.237 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 40.39 Mbit/s
95th percentile per-packet one-way delay: 58.319 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 58.377 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 17.91 Mbit/s
95th percentile per-packet one-way delay: 44.981 ms
Loss rate: 1.47%
```
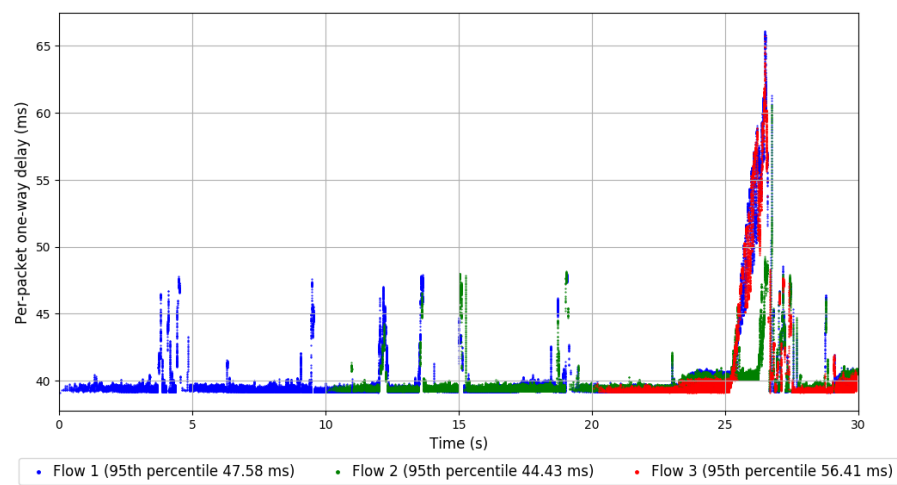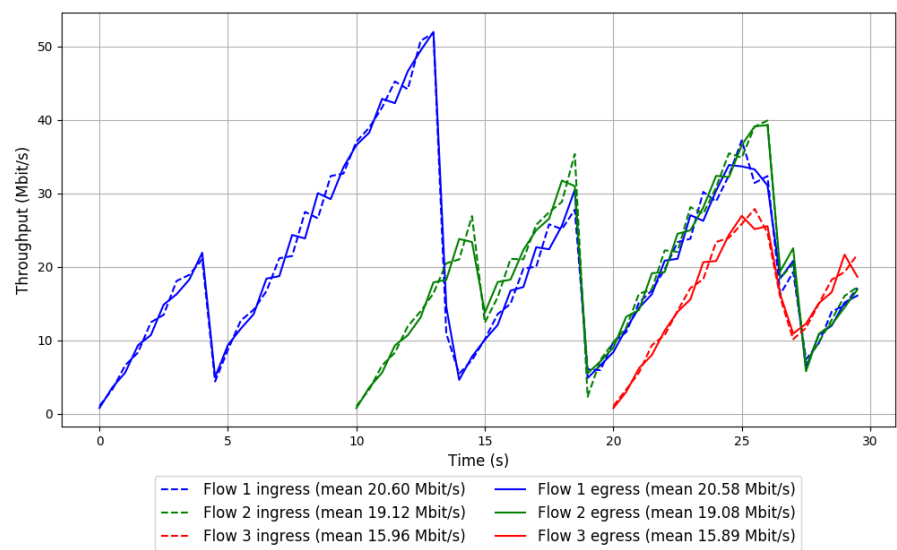
Run 5: Report of LEDBAT — Data Link

```
Run 6: Statistics of LEDBAT

Start at: 2018-03-21 02:09:56
End at: 2018-03-21 02:10:26
Local clock offset: -0.672 ms
Remote clock offset: -5.704 ms


# Below is generated by plot.py at 2018-03-21 08:50:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.65 Mbit/s
95th percentile per-packet one-way delay: 41.179 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 27.48 Mbit/s
95th percentile per-packet one-way delay: 40.643 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 17.55 Mbit/s
95th percentile per-packet one-way delay: 41.001 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 45.220 ms
Loss rate: 1.19%
```
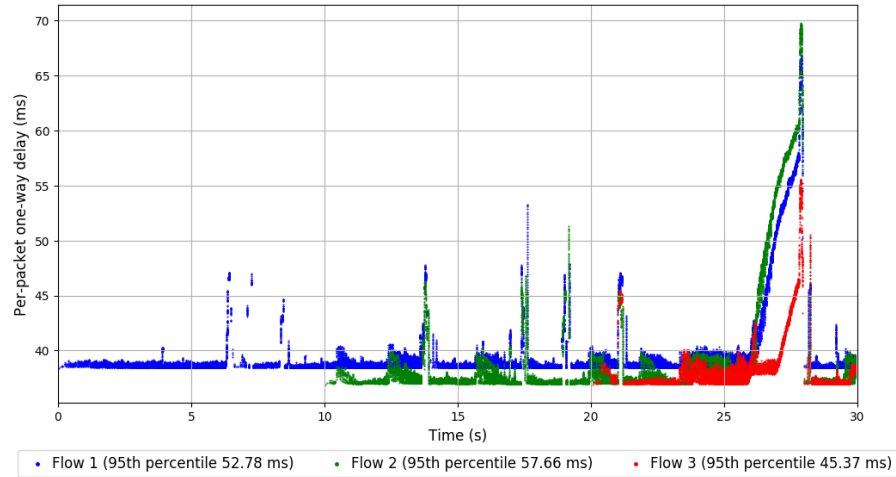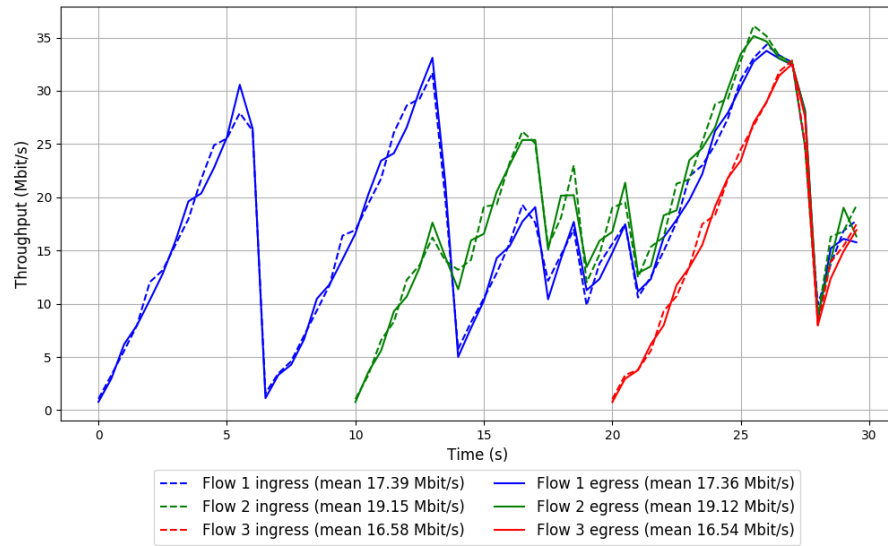
Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 27.47 Mbit/s)   Flow 1 egress (mean 27.48 Mbit/s)
Flow 2 ingress (mean 17.58 Mbit/s)   Flow 2 egress (mean 17.55 Mbit/s)
Flow 3 ingress (mean 7.67 Mbit/s)   Flow 3 egress (mean 7.59 Mbit/s)

Flow 1 (95th percentile 40.64 ms)   Flow 2 (95th percentile 41.00 ms)   Flow 3 (95th percentile 45.22 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2018-03-21 02:35:31
End at: 2018-03-21 02:36:01
Local clock offset: -0.251 ms
Remote clock offset: -8.533 ms

# Below is generated by plot.py at 2018-03-21 08:50:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.63 Mbit/s
95th percentile per-packet one-way delay: 44.932 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 13.85 Mbit/s
95th percentile per-packet one-way delay: 45.317 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 44.489 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 44.908 ms
Loss rate: 0.90%
```
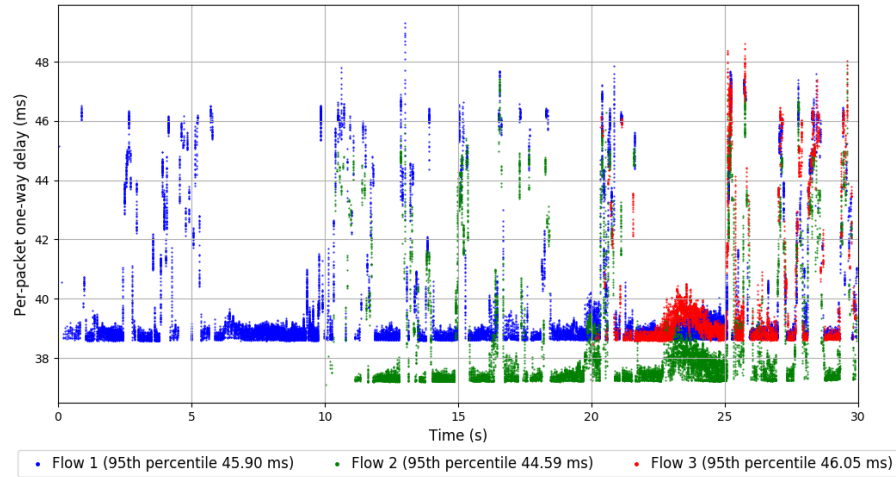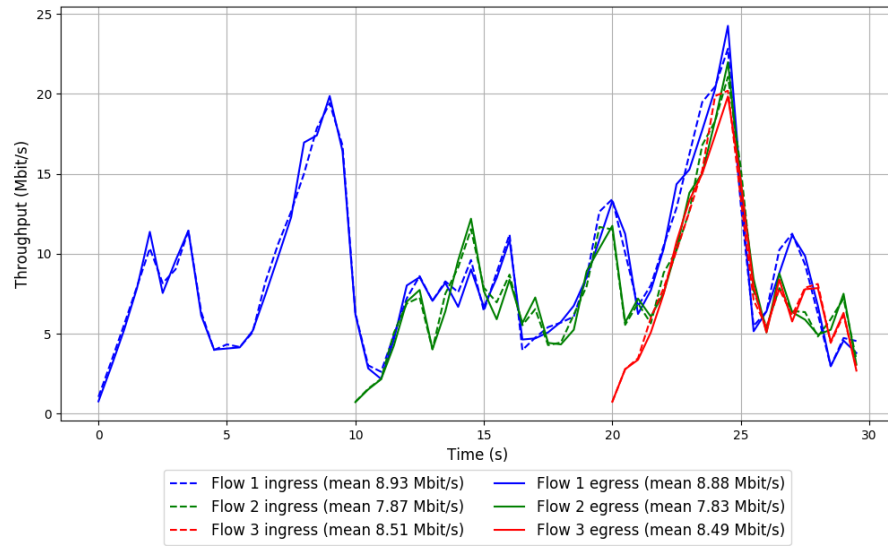
Run 7: Report of LEDBAT — Data Link

```
Run 8: Statistics of LEDBAT

Start at: 2018-03-21 03:01:10
End at: 2018-03-21 03:01:40
Local clock offset: -0.385 ms
Remote clock offset: -9.111 ms

# Below is generated by plot.py at 2018-03-21 08:50:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 47.737 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 47.576 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 19.08 Mbit/s
95th percentile per-packet one-way delay: 44.431 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 15.89 Mbit/s
95th percentile per-packet one-way delay: 56.415 ms
Loss rate: 1.13%
```
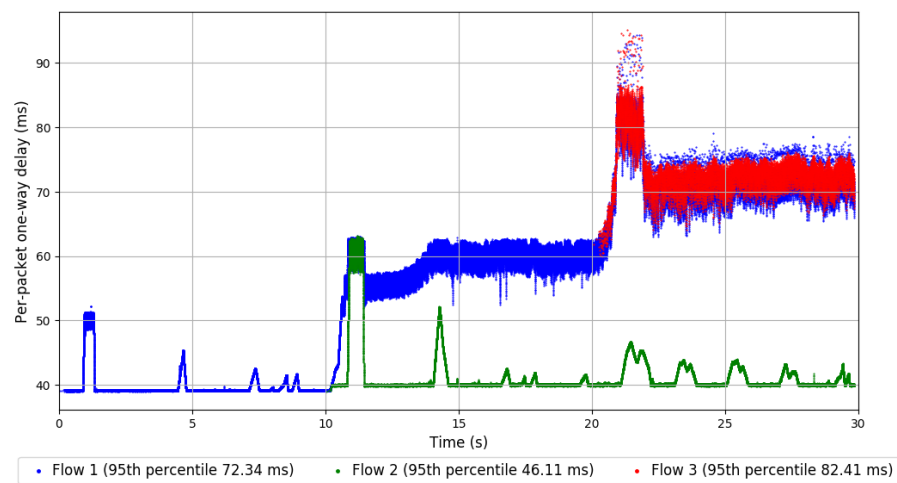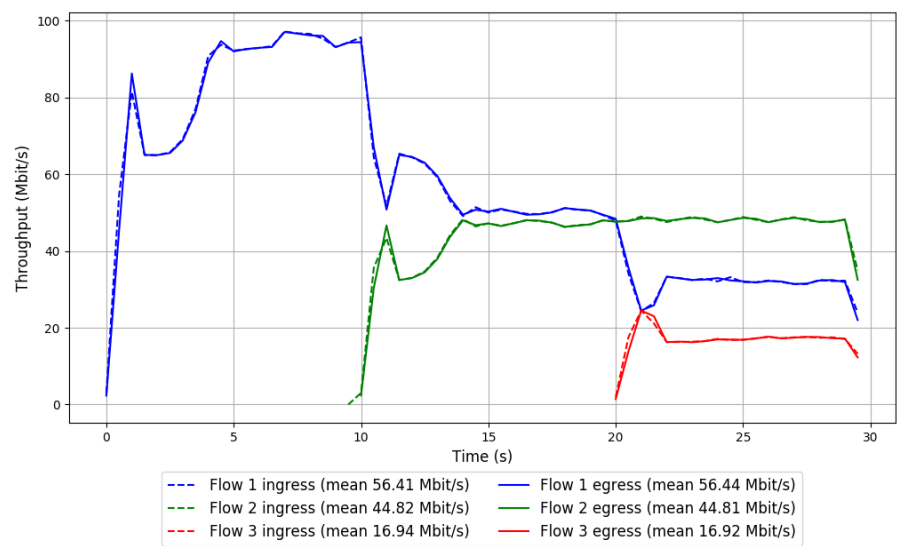
Run 8: Report of LEDBAT — Data Link

- Flow 1 ingress (mean 20.60 Mbit/s)
- Flow 1 egress (mean 20.58 Mbit/s)
- Flow 2 ingress (mean 19.12 Mbit/s)
- Flow 2 egress (mean 19.08 Mbit/s)
- Flow 3 ingress (mean 15.96 Mbit/s)
- Flow 3 egress (mean 15.89 Mbit/s)

- Flow 1 (95th percentile 47.58 ms)
- Flow 2 (95th percentile 44.43 ms)
- Flow 3 (95th percentile 56.41 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2018-03-21 03:27:40
End at: 2018-03-21 03:28:10
Local clock offset: -0.221 ms
Remote clock offset: -7.1 ms


# Below is generated by plot.py at 2018-03-21 08:50:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.52 Mbit/s
95th percentile per-packet one-way delay: 54.300 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 17.36 Mbit/s
95th percentile per-packet one-way delay: 52.784 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 19.12 Mbit/s
95th percentile per-packet one-way delay: 57.656 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 16.54 Mbit/s
95th percentile per-packet one-way delay: 45.374 ms
Loss rate: 0.90%
```
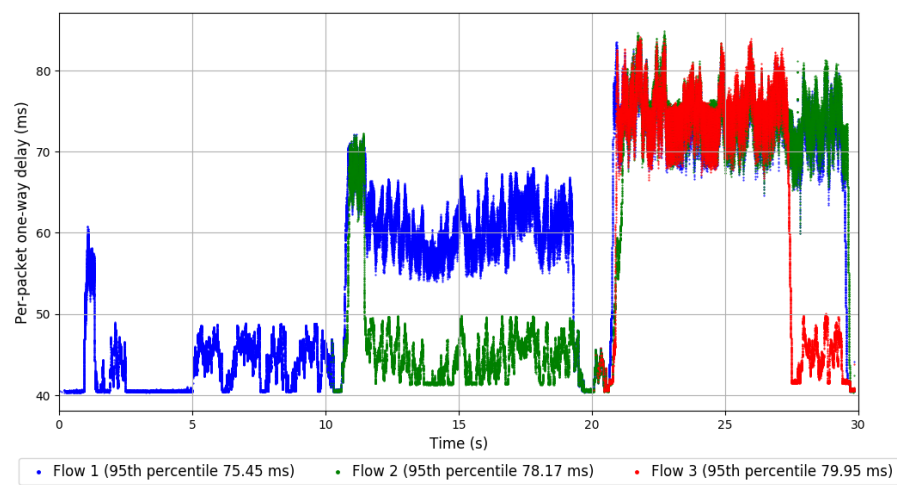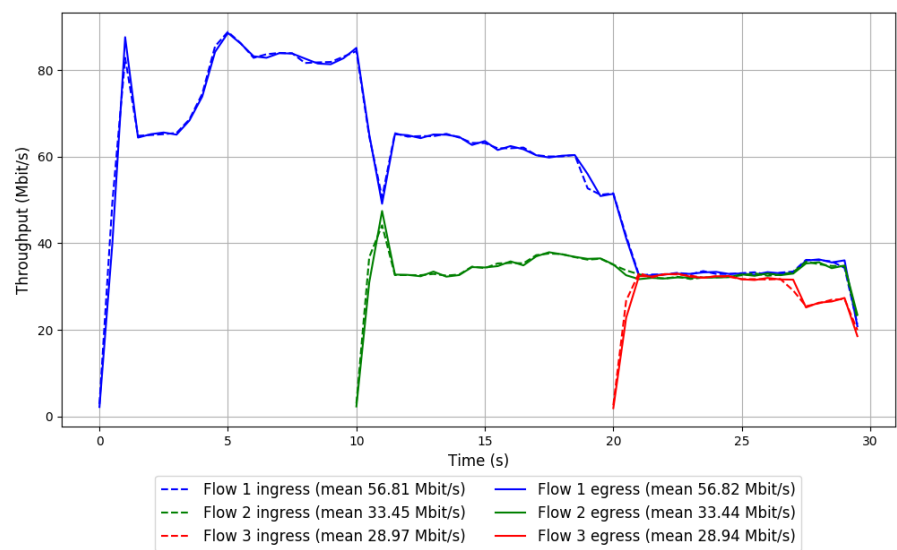
Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 17.39 Mbit/s) --- Flow 1 egress (mean 17.36 Mbit/s)
Flow 2 ingress (mean 19.15 Mbit/s) --- Flow 2 egress (mean 19.12 Mbit/s)
Flow 3 ingress (mean 16.58 Mbit/s) --- Flow 3 egress (mean 16.54 Mbit/s)

Flow 1 (95th percentile 52.78 ms)   Flow 2 (95th percentile 57.66 ms)   Flow 3 (95th percentile 45.37 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2018-03-21 03:53:55
End at: 2018-03-21 03:54:25
Local clock offset: -0.14 ms
Remote clock offset: -4.702 ms


# Below is generated by plot.py at 2018-03-21 08:50:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 45.588 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 8.88 Mbit/s
95th percentile per-packet one-way delay: 45.895 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 44.586 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 8.49 Mbit/s
95th percentile per-packet one-way delay: 46.046 ms
Loss rate: 0.97%
```
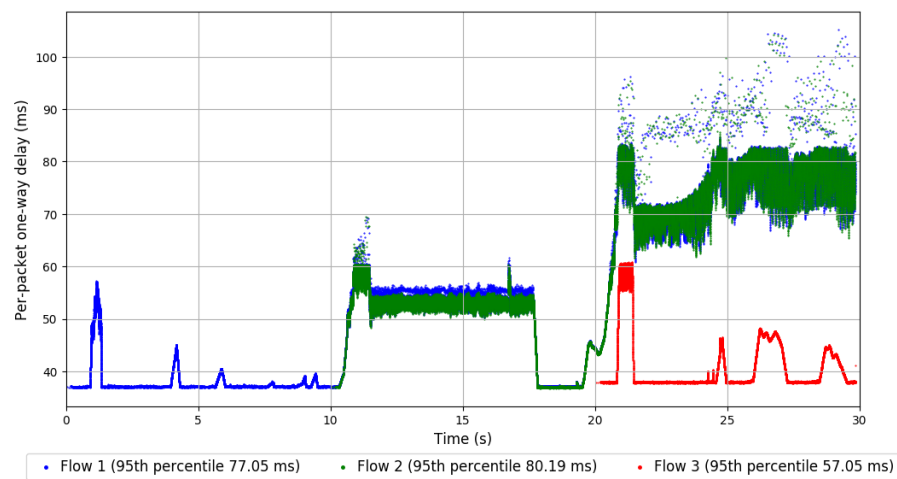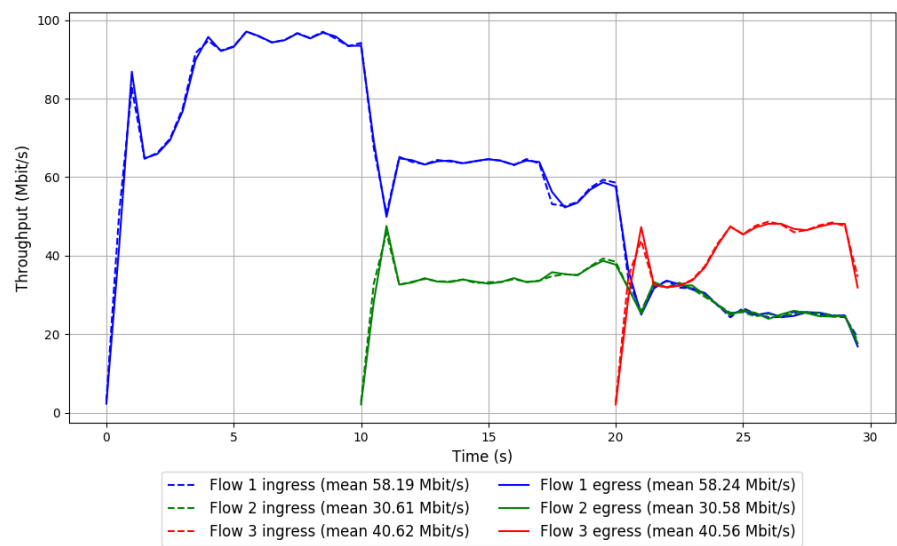
Run 10: Report of LEDBAT — Data Link

- - - Flow 1 ingress (mean 8.93 Mbit/s) —— Flow 1 egress (mean 8.88 Mbit/s)
- - - Flow 2 ingress (mean 7.87 Mbit/s) —— Flow 2 egress (mean 7.83 Mbit/s)
- - - Flow 3 ingress (mean 8.51 Mbit/s) —— Flow 3 egress (mean 8.49 Mbit/s)

- Flow 1 (95th percentile 45.90 ms) • Flow 2 (95th percentile 44.59 ms) • Flow 3 (95th percentile 46.05 ms)
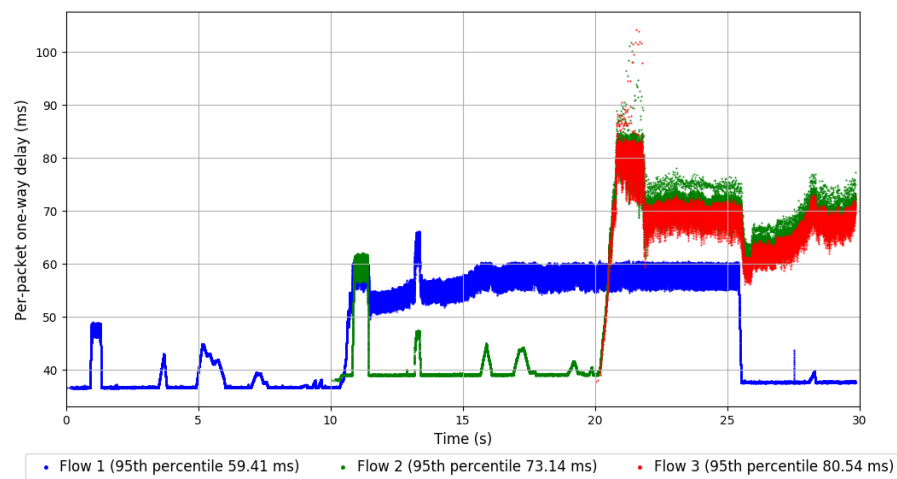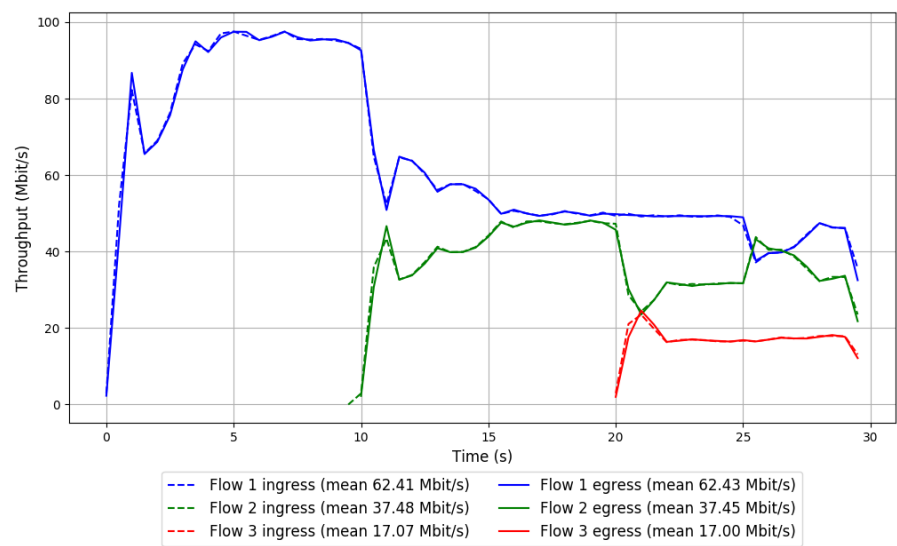
```
Run 1: Statistics of PCC

Start at: 2018-03-20 23:53:52
End at: 2018-03-20 23:54:22
Local clock offset: -0.58 ms
Remote clock offset: -5.889 ms

# Below is generated by plot.py at 2018-03-21 08:51:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.76 Mbit/s
95th percentile per-packet one-way delay: 72.852 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 72.340 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 44.81 Mbit/s
95th percentile per-packet one-way delay: 46.110 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 16.92 Mbit/s
95th percentile per-packet one-way delay: 82.408 ms
Loss rate: 1.02%
```
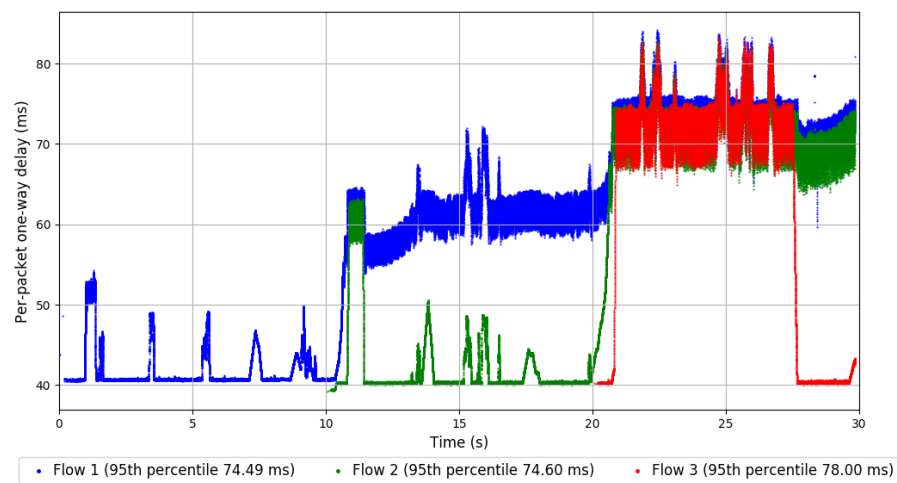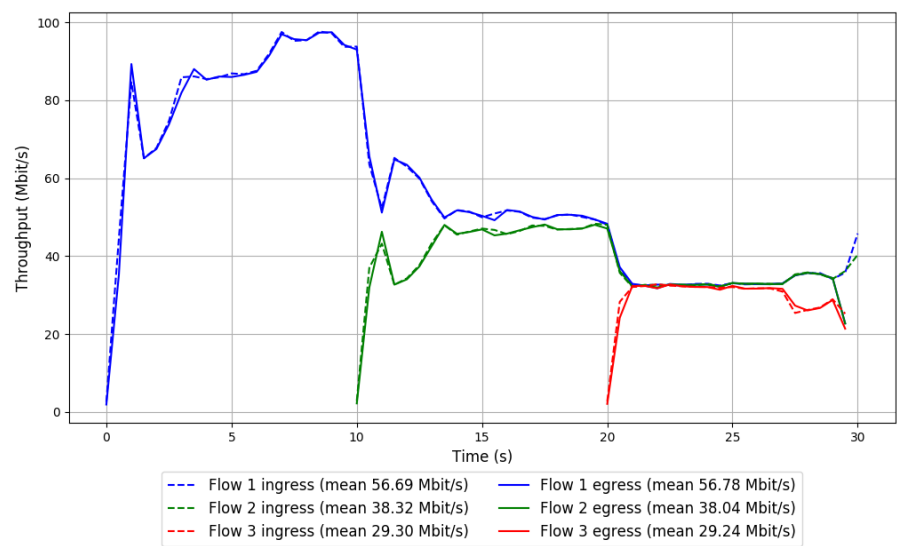
Run 1: Report of PCC — Data Link

```
Run 2: Statistics of PCC

Start at: 2018-03-21 00:18:48
End at: 2018-03-21 00:19:18
Local clock offset: -0.104 ms
Remote clock offset: -7.52 ms

# Below is generated by plot.py at 2018-03-21 08:51:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.53 Mbit/s
95th percentile per-packet one-way delay: 77.451 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 56.82 Mbit/s
95th percentile per-packet one-way delay: 75.452 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 33.44 Mbit/s
95th percentile per-packet one-way delay: 78.175 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 28.94 Mbit/s
95th percentile per-packet one-way delay: 79.949 ms
Loss rate: 0.75%
```
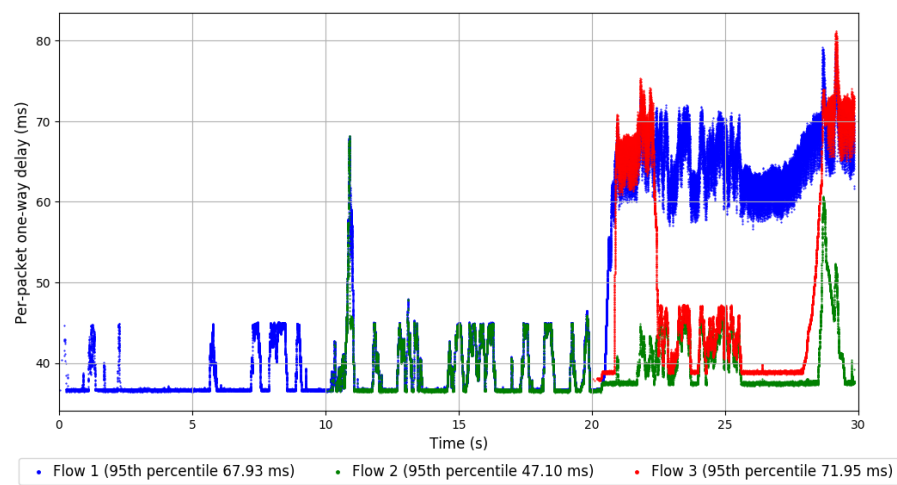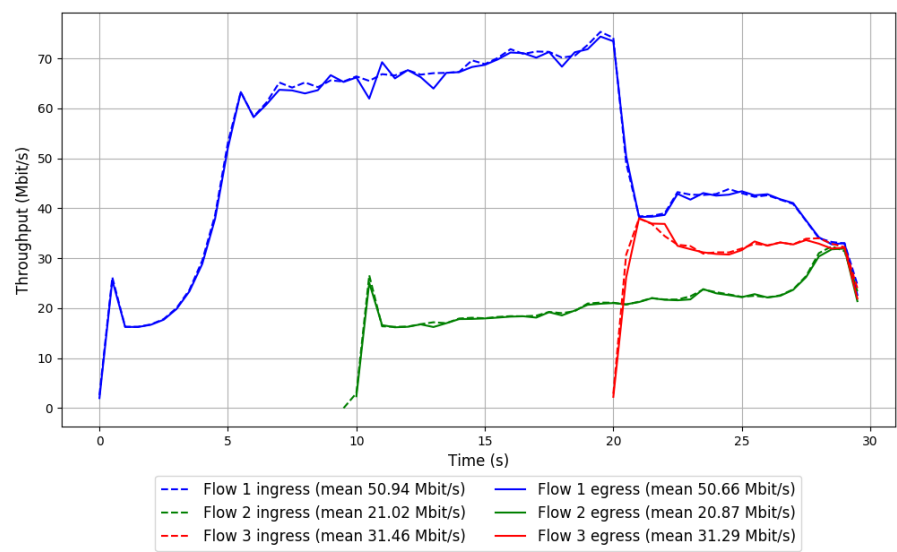
Run 2: Report of PCC — Data Link

```
Run 3: Statistics of PCC

Start at: 2018-03-21 00:43:59
End at: 2018-03-21 00:44:29
Local clock offset: 0.403 ms
Remote clock offset: -6.499 ms


# Below is generated by plot.py at 2018-03-21 08:51:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.88 Mbit/s
95th percentile per-packet one-way delay: 78.034 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 58.24 Mbit/s
95th percentile per-packet one-way delay: 77.047 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 30.58 Mbit/s
95th percentile per-packet one-way delay: 80.192 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 57.052 ms
Loss rate: 0.79%
```
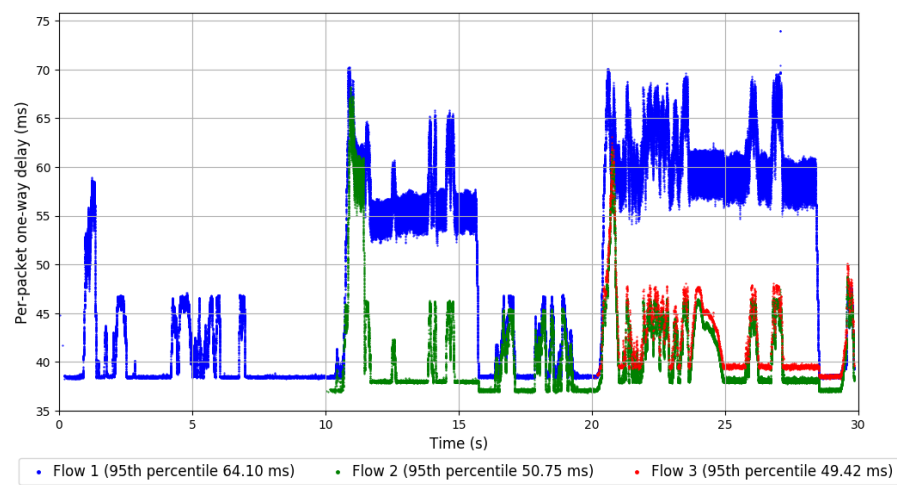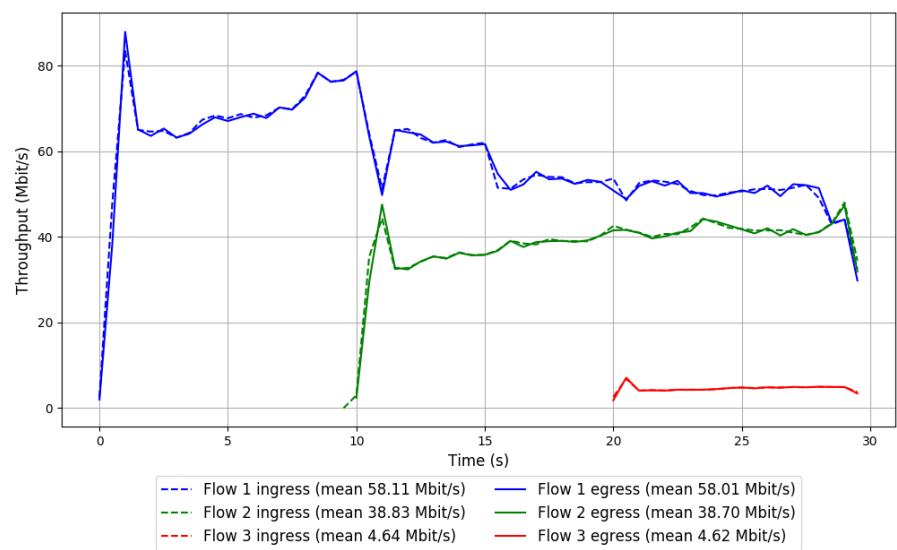
Run 3: Report of PCC — Data Link

```
Run 4: Statistics of PCC

Start at: 2018-03-21 01:08:51
End at: 2018-03-21 01:09:21
Local clock offset: 0.252 ms
Remote clock offset: -2.581 ms

# Below is generated by plot.py at 2018-03-21 08:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 70.783 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 59.415 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 37.45 Mbit/s
95th percentile per-packet one-way delay: 73.135 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 80.536 ms
Loss rate: 1.04%
```

Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 62.41 Mbit/s) --- Flow 1 egress (mean 62.43 Mbit/s)
Flow 2 ingress (mean 37.48 Mbit/s) --- Flow 2 egress (mean 37.45 Mbit/s)
Flow 3 ingress (mean 17.07 Mbit/s) --- Flow 3 egress (mean 17.00 Mbit/s)

Flow 1 (95th percentile 59.41 ms)   Flow 2 (95th percentile 73.14 ms)   Flow 3 (95th percentile 80.54 ms)
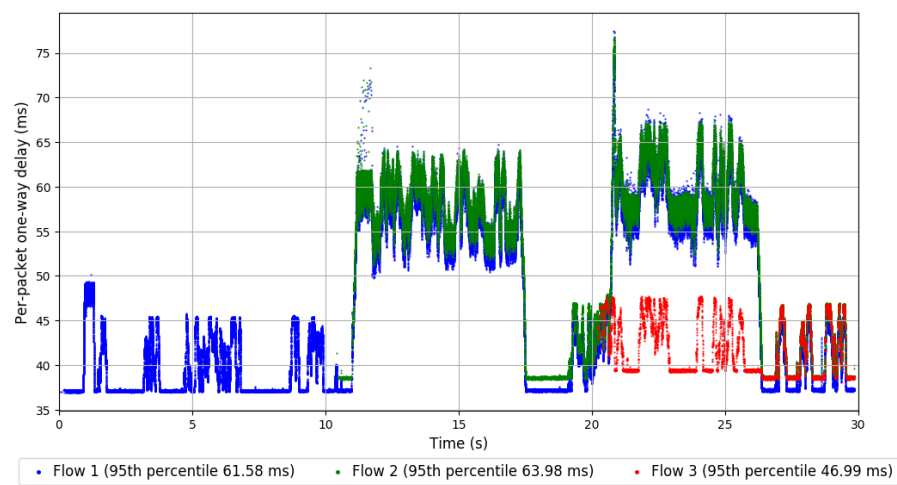
```
Run 5: Statistics of PCC

Start at: 2018-03-21 01:33:42
End at: 2018-03-21 01:34:12
Local clock offset: -0.468 ms
Remote clock offset: -4.747 ms


# Below is generated by plot.py at 2018-03-21 08:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.66 Mbit/s
95th percentile per-packet one-way delay: 74.980 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 74.493 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 74.596 ms
Loss rate: 3.86%
-- Flow 3:
Average throughput: 29.24 Mbit/s
95th percentile per-packet one-way delay: 77.998 ms
Loss rate: 1.22%
```
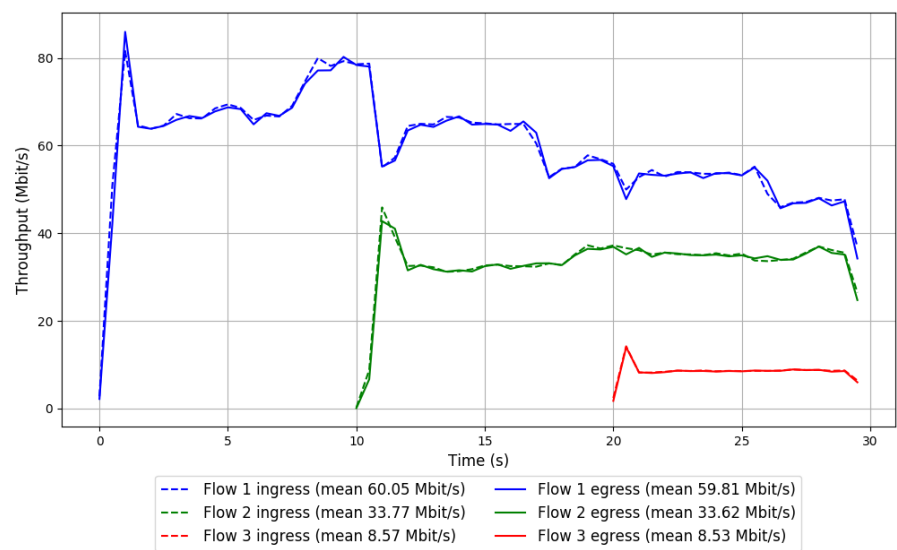
Run 5: Report of PCC — Data Link

- - - - Flow 1 ingress (mean 56.69 Mbit/s) ———— Flow 1 egress (mean 56.78 Mbit/s)
- - - - Flow 2 ingress (mean 38.32 Mbit/s) ———— Flow 2 egress (mean 38.04 Mbit/s)
- - - - Flow 3 ingress (mean 29.30 Mbit/s) ———— Flow 3 egress (mean 29.24 Mbit/s)

- Flow 1 (95th percentile 74.49 ms)   • Flow 2 (95th percentile 74.60 ms)   • Flow 3 (95th percentile 78.00 ms)
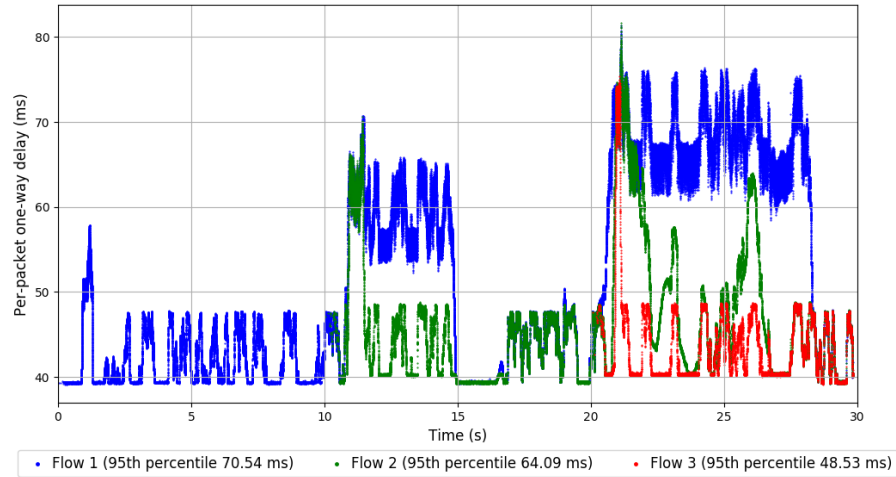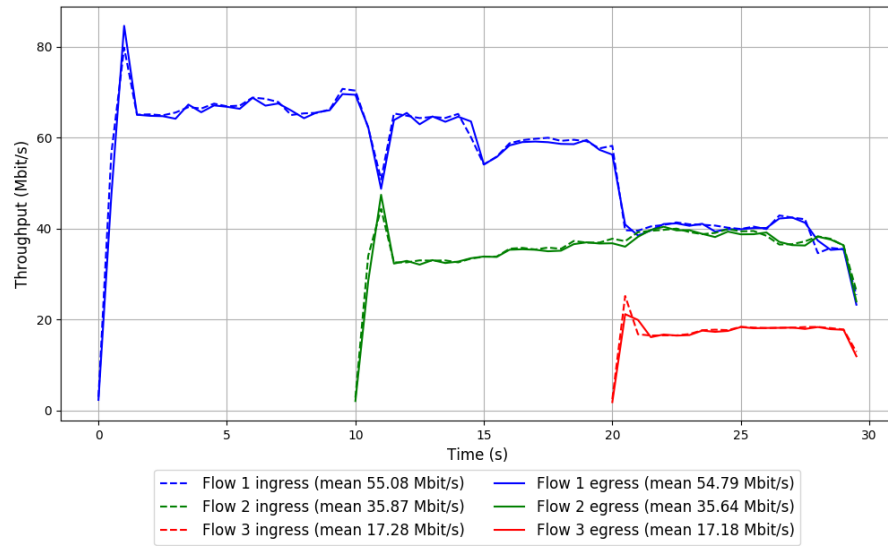
73

```
Run 6: Statistics of PCC

Start at: 2018-03-21 01:58:37
End at: 2018-03-21 01:59:07
Local clock offset: -0.628 ms
Remote clock offset: -2.894 ms

# Below is generated by plot.py at 2018-03-21 08:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 68.383 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 50.66 Mbit/s
95th percentile per-packet one-way delay: 67.930 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 20.87 Mbit/s
95th percentile per-packet one-way delay: 47.102 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 31.29 Mbit/s
95th percentile per-packet one-way delay: 71.954 ms
Loss rate: 1.35%
```
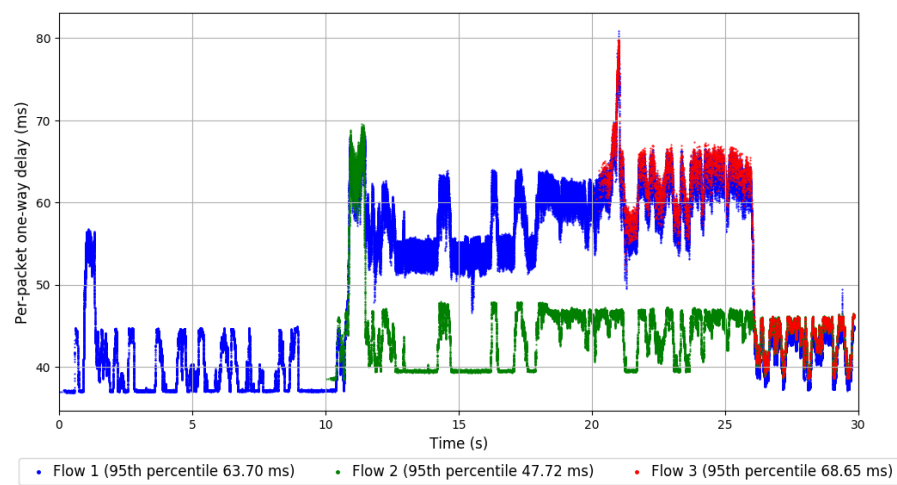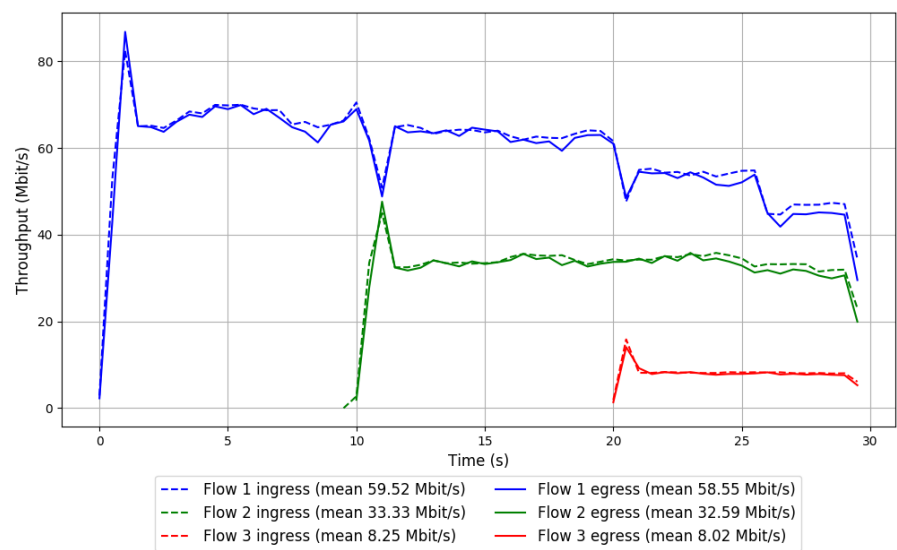
Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 50.94 Mbit/s) --- Flow 1 egress (mean 50.66 Mbit/s)
Flow 2 ingress (mean 21.02 Mbit/s) --- Flow 2 egress (mean 20.87 Mbit/s)
Flow 3 ingress (mean 31.46 Mbit/s) --- Flow 3 egress (mean 31.29 Mbit/s)

Flow 1 (95th percentile 67.93 ms)   Flow 2 (95th percentile 47.10 ms)   Flow 3 (95th percentile 71.95 ms)

```
Run 7: Statistics of PCC

Start at: 2018-03-21 02:24:25
End at: 2018-03-21 02:24:55
Local clock offset: -0.305 ms
Remote clock offset: -8.312 ms


# Below is generated by plot.py at 2018-03-21 08:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.25 Mbit/s
95th percentile per-packet one-way delay: 62.794 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 64.099 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 50.753 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 4.62 Mbit/s
95th percentile per-packet one-way delay: 49.417 ms
Loss rate: 1.13%
```
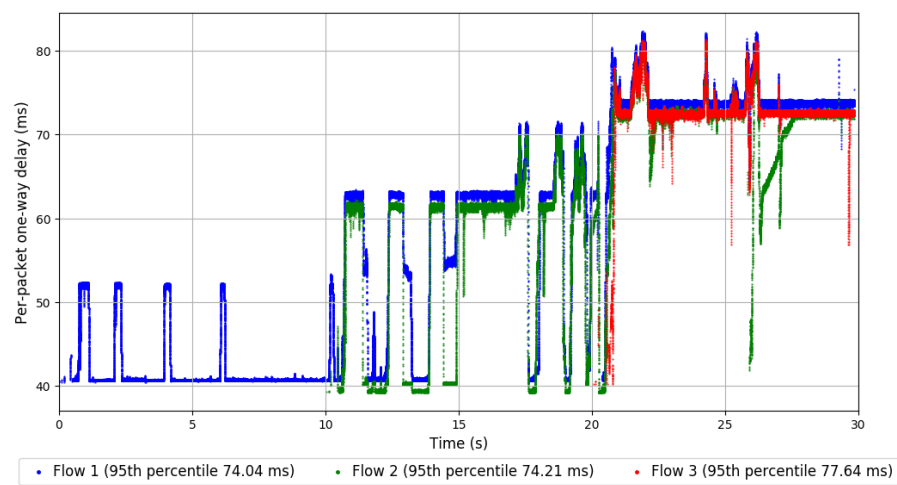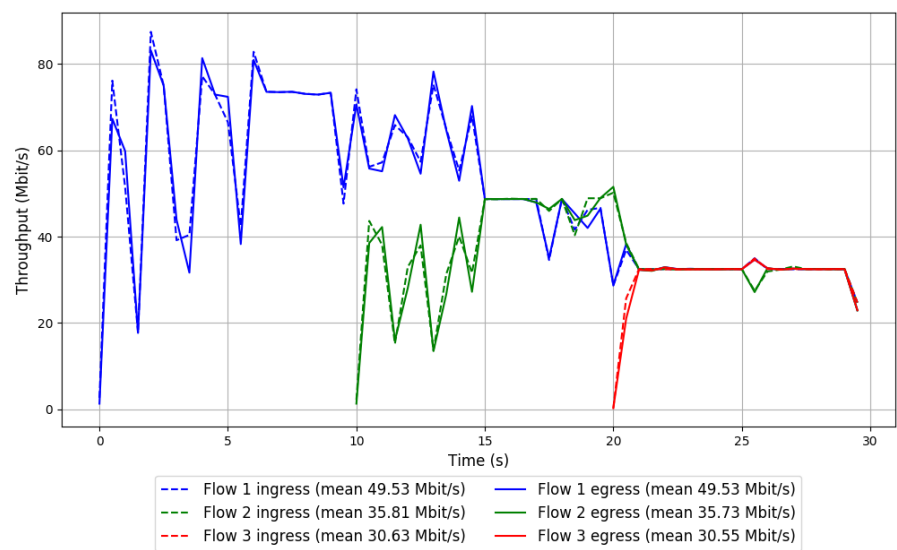
Run 7: Report of PCC — Data Link

```
Run 8: Statistics of PCC

Start at: 2018-03-21 02:49:50
End at: 2018-03-21 02:50:20
Local clock offset: -0.273 ms
Remote clock offset: -6.933 ms


# Below is generated by plot.py at 2018-03-21 08:51:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.60 Mbit/s
95th percentile per-packet one-way delay: 62.409 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 59.81 Mbit/s
95th percentile per-packet one-way delay: 61.579 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 33.62 Mbit/s
95th percentile per-packet one-way delay: 63.977 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 8.53 Mbit/s
95th percentile per-packet one-way delay: 46.993 ms
Loss rate: 1.15%
```
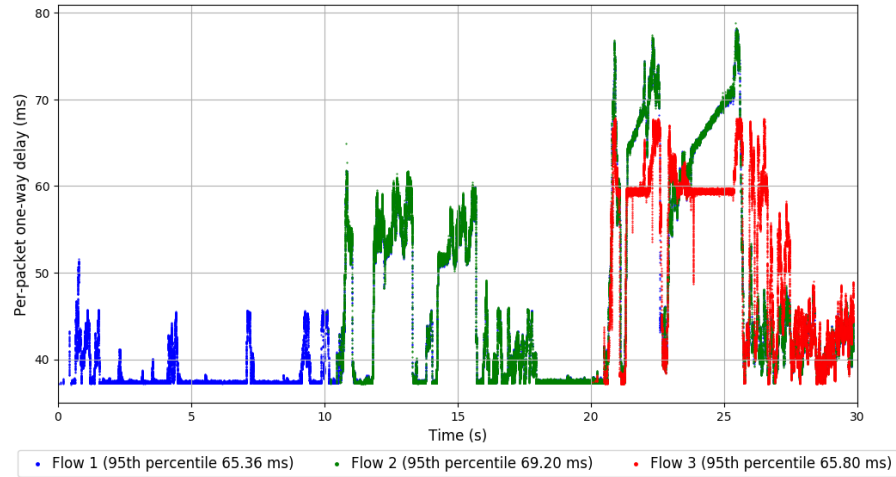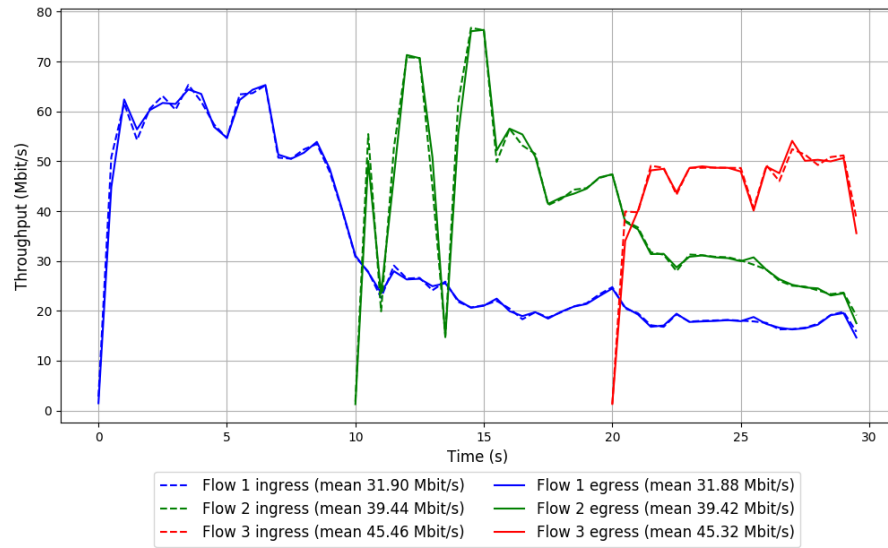
Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 60.05 Mbit/s) Flow 1 egress (mean 59.81 Mbit/s)
Flow 2 ingress (mean 33.77 Mbit/s) Flow 2 egress (mean 33.62 Mbit/s)
Flow 3 ingress (mean 8.57 Mbit/s) Flow 3 egress (mean 8.53 Mbit/s)

Flow 1 (95th percentile 61.58 ms) Flow 2 (95th percentile 63.98 ms) Flow 3 (95th percentile 46.99 ms)

```
Run 9: Statistics of PCC

Start at: 2018-03-21 03:16:39
End at: 2018-03-21 03:17:09
Local clock offset: -0.325 ms
Remote clock offset: -9.145 ms


# Below is generated by plot.py at 2018-03-21 08:52:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.09 Mbit/s
95th percentile per-packet one-way delay: 69.197 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 54.79 Mbit/s
95th percentile per-packet one-way delay: 70.541 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 35.64 Mbit/s
95th percentile per-packet one-way delay: 64.090 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 17.18 Mbit/s
95th percentile per-packet one-way delay: 48.530 ms
Loss rate: 1.34%
```
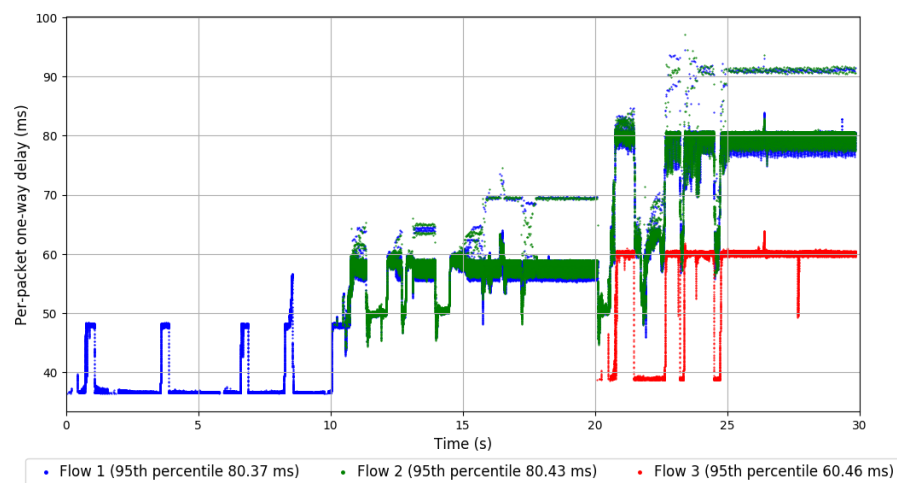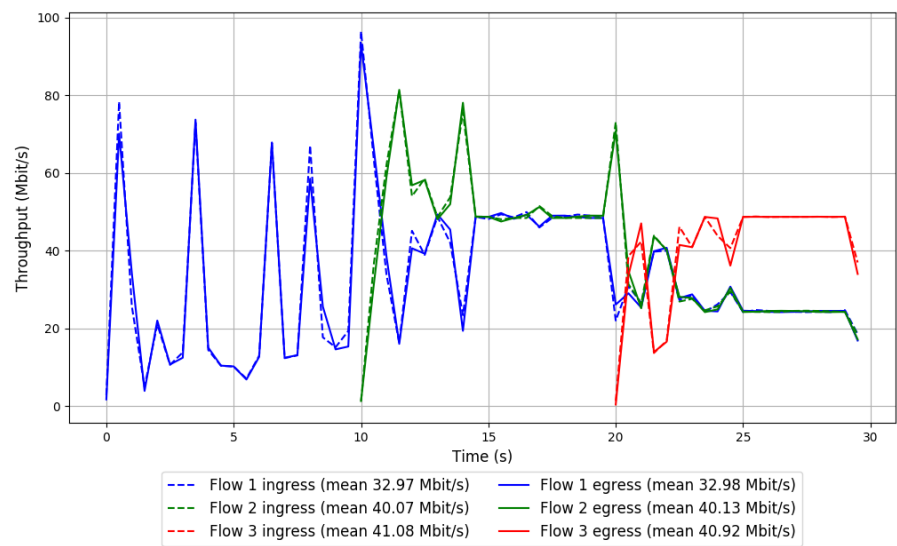
Run 9: Report of PCC — Data Link

- - - Flow 1 ingress (mean 55.08 Mbit/s) —— Flow 1 egress (mean 54.79 Mbit/s)
- - - Flow 2 ingress (mean 35.87 Mbit/s) —— Flow 2 egress (mean 35.64 Mbit/s)
- - - Flow 3 ingress (mean 17.28 Mbit/s) —— Flow 3 egress (mean 17.18 Mbit/s)

• Flow 1 (95th percentile 70.54 ms)   • Flow 2 (95th percentile 64.09 ms)   • Flow 3 (95th percentile 48.53 ms)

81

```
Run 10: Statistics of PCC

Start at: 2018-03-21 03:42:09
End at: 2018-03-21 03:42:39
Local clock offset: -0.24 ms
Remote clock offset: -7.077 ms


# Below is generated by plot.py at 2018-03-21 08:52:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.83 Mbit/s
95th percentile per-packet one-way delay: 63.777 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 58.55 Mbit/s
95th percentile per-packet one-way delay: 63.703 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 32.59 Mbit/s
95th percentile per-packet one-way delay: 47.719 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 68.653 ms
Loss rate: 3.64%
```
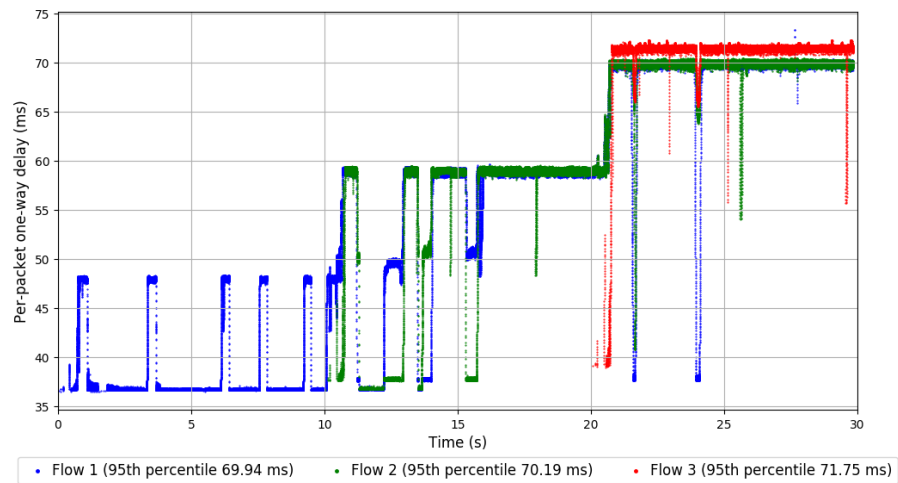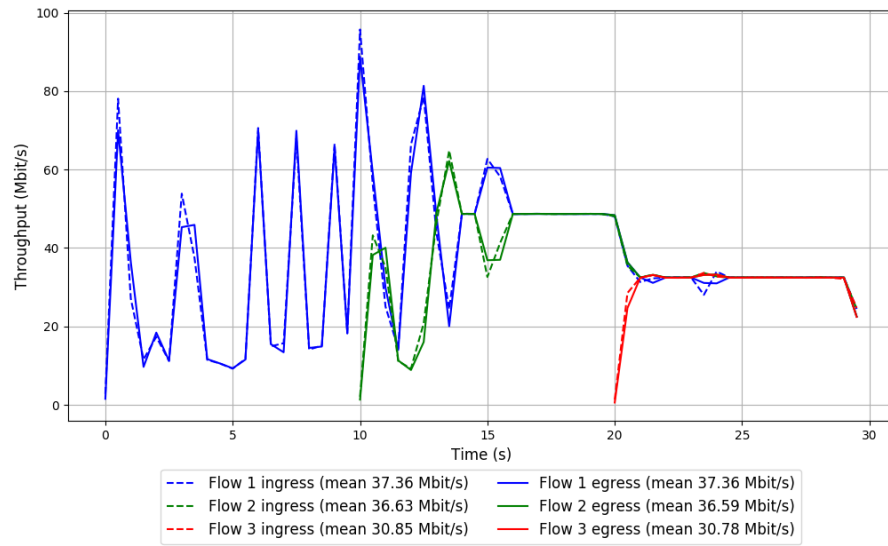
Run 10: Report of PCC — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-20 23:52:29
End at: 2018-03-20 23:52:59
Local clock offset: -0.498 ms
Remote clock offset: -5.997 ms


# Below is generated by plot.py at 2018-03-21 08:52:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.30 Mbit/s
95th percentile per-packet one-way delay: 74.423 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 74.042 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 74.206 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 77.645 ms
Loss rate: 1.10%
```
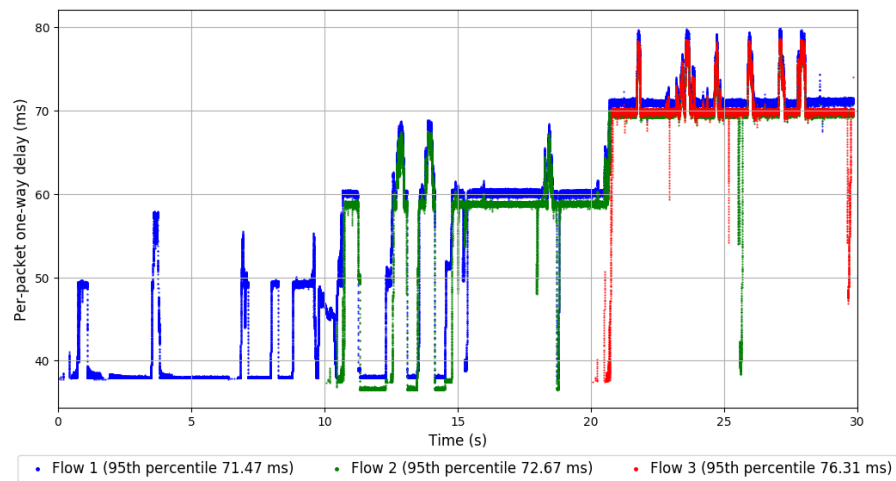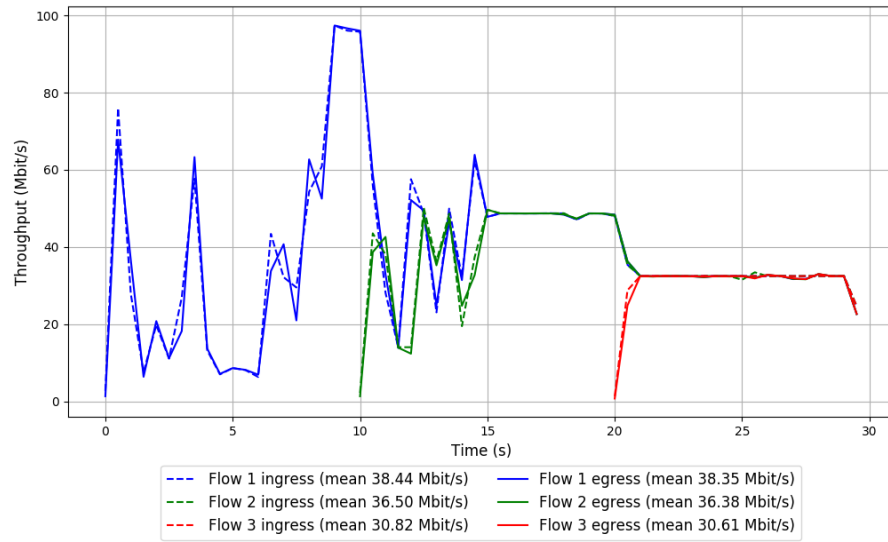
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-03-21 00:17:22
End at: 2018-03-21 00:17:52
Local clock offset: -0.017 ms
Remote clock offset: -5.555 ms


# Below is generated by plot.py at 2018-03-21 08:52:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.91 Mbit/s
95th percentile per-packet one-way delay: 67.021 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 65.356 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 39.42 Mbit/s
95th percentile per-packet one-way delay: 69.199 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 45.32 Mbit/s
95th percentile per-packet one-way delay: 65.804 ms
Loss rate: 0.99%
```
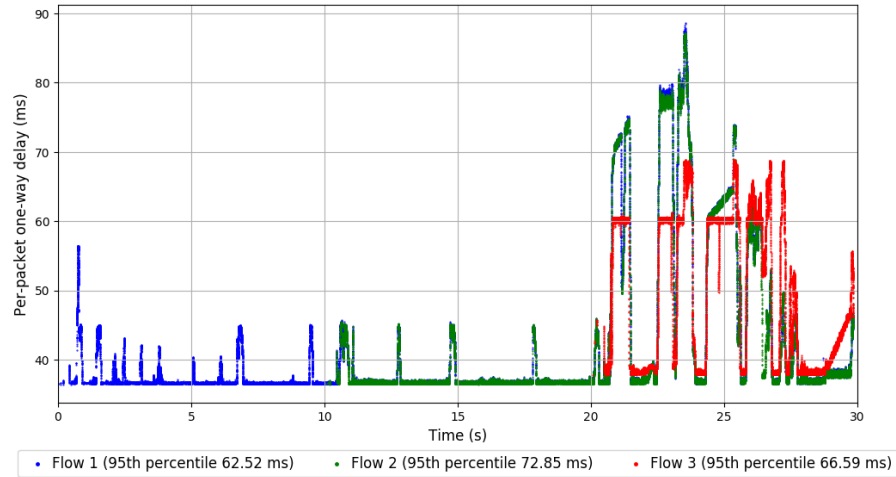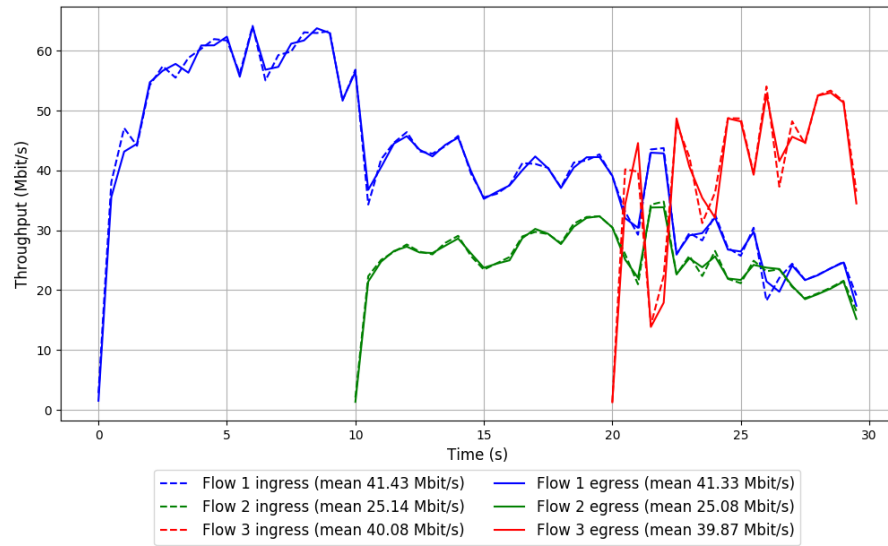
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-03-21 00:42:37
End at: 2018-03-21 00:43:07
Local clock offset: 0.429 ms
Remote clock offset: -5.885 ms


# Below is generated by plot.py at 2018-03-21 08:52:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.02 Mbit/s
95th percentile per-packet one-way delay: 80.354 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 32.98 Mbit/s
95th percentile per-packet one-way delay: 80.367 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 80.429 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 60.459 ms
Loss rate: 1.09%
```
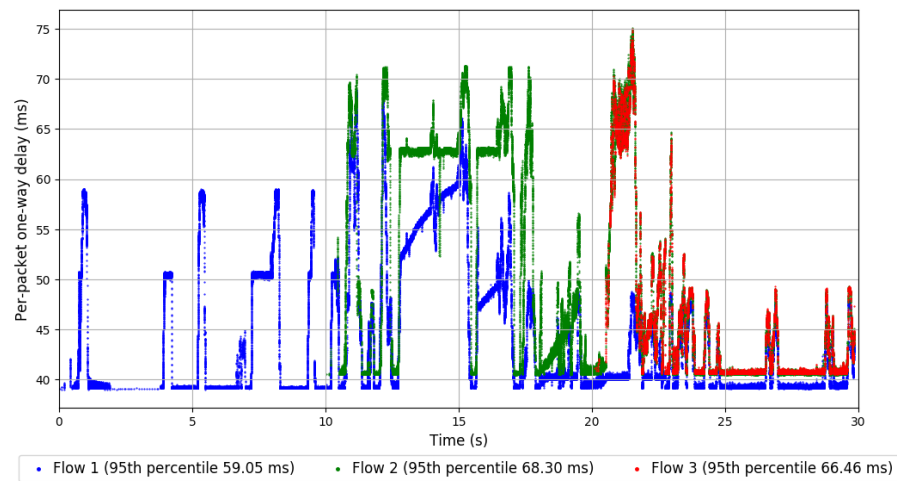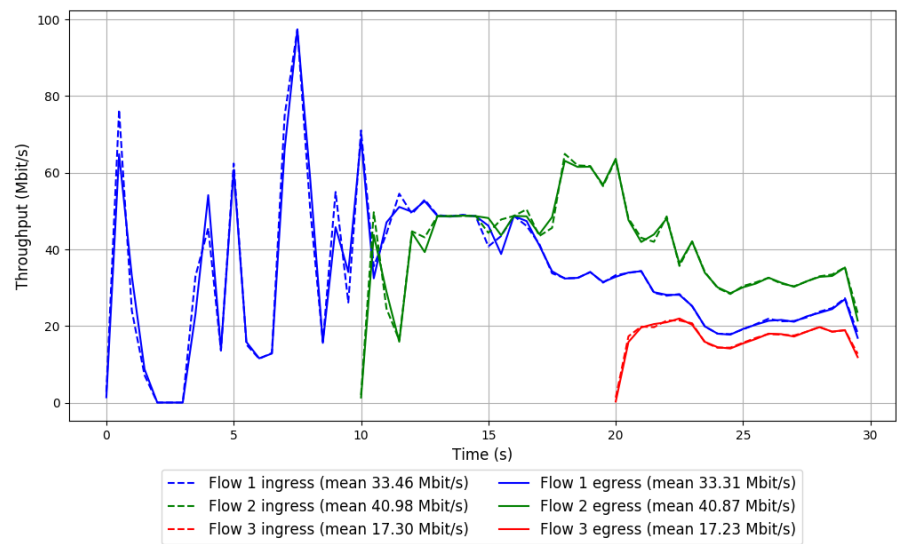
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-03-21 01:07:29
End at: 2018-03-21 01:07:59
Local clock offset: 0.362 ms
Remote clock offset: -2.688 ms


# Below is generated by plot.py at 2018-03-21 08:52:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 71.548 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 37.36 Mbit/s
95th percentile per-packet one-way delay: 69.940 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 70.185 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 71.754 ms
Loss rate: 1.08%
```
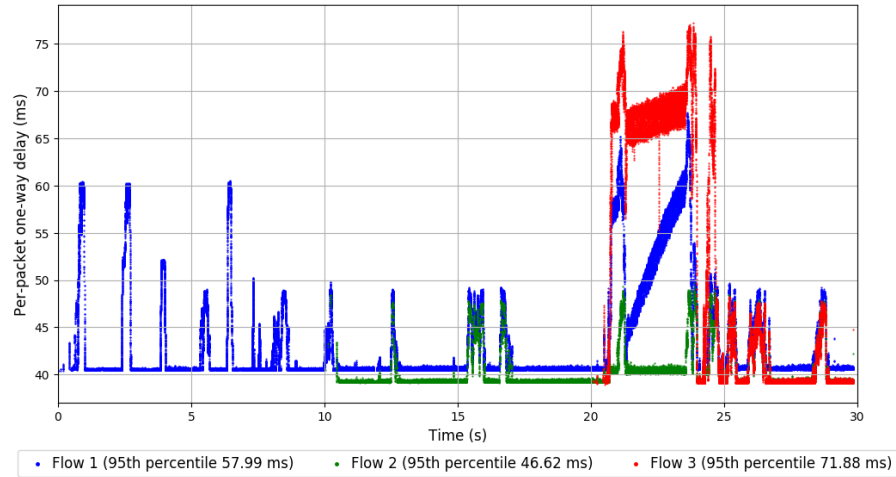
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 37.36 Mbit/s) --- Flow 1 egress (mean 37.36 Mbit/s)
Flow 2 ingress (mean 36.63 Mbit/s) --- Flow 2 egress (mean 36.59 Mbit/s)
Flow 3 ingress (mean 30.85 Mbit/s) --- Flow 3 egress (mean 30.78 Mbit/s)

Flow 1 (95th percentile 69.94 ms)   Flow 2 (95th percentile 70.19 ms)   Flow 3 (95th percentile 71.75 ms)
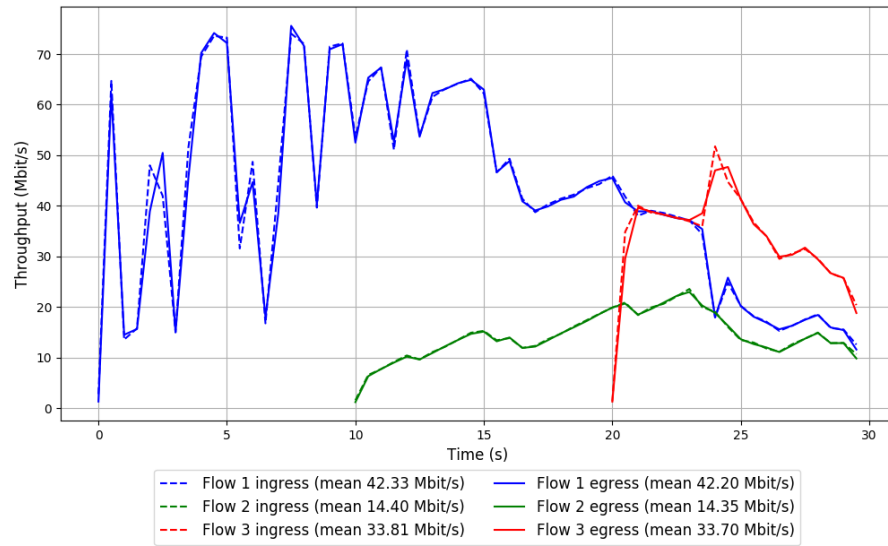
```
Run 5: Statistics of QUIC Cubic

Start at: 2018-03-21 01:32:20
End at: 2018-03-21 01:32:50
Local clock offset: -0.513 ms
Remote clock offset: -2.116 ms


# Below is generated by plot.py at 2018-03-21 08:52:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.54 Mbit/s
95th percentile per-packet one-way delay: 73.051 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 71.469 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 36.38 Mbit/s
95th percentile per-packet one-way delay: 72.673 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 30.61 Mbit/s
95th percentile per-packet one-way delay: 76.309 ms
Loss rate: 1.32%
```
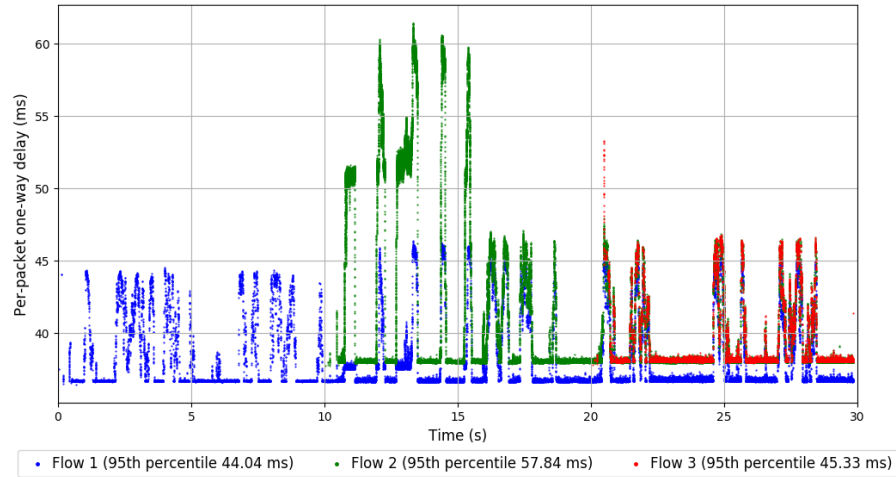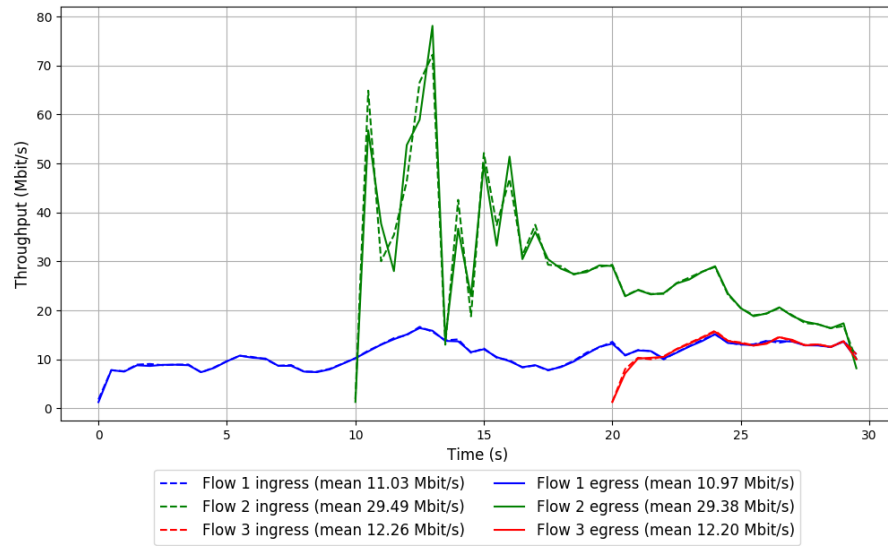
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 38.44 Mbit/s) —— Flow 1 egress (mean 38.35 Mbit/s)
Flow 2 ingress (mean 36.50 Mbit/s) —— Flow 2 egress (mean 36.38 Mbit/s)
Flow 3 ingress (mean 30.82 Mbit/s) —— Flow 3 egress (mean 30.61 Mbit/s)

Flow 1 (95th percentile 71.47 ms)   Flow 2 (95th percentile 72.67 ms)   Flow 3 (95th percentile 76.31 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-03-21 01:57:15
End at: 2018-03-21 01:57:45
Local clock offset: -0.617 ms
Remote clock offset: -2.812 ms


# Below is generated by plot.py at 2018-03-21 08:52:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.08 Mbit/s
95th percentile per-packet one-way delay: 66.008 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 41.33 Mbit/s
95th percentile per-packet one-way delay: 62.517 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 72.847 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 39.87 Mbit/s
95th percentile per-packet one-way delay: 66.594 ms
Loss rate: 1.19%
```
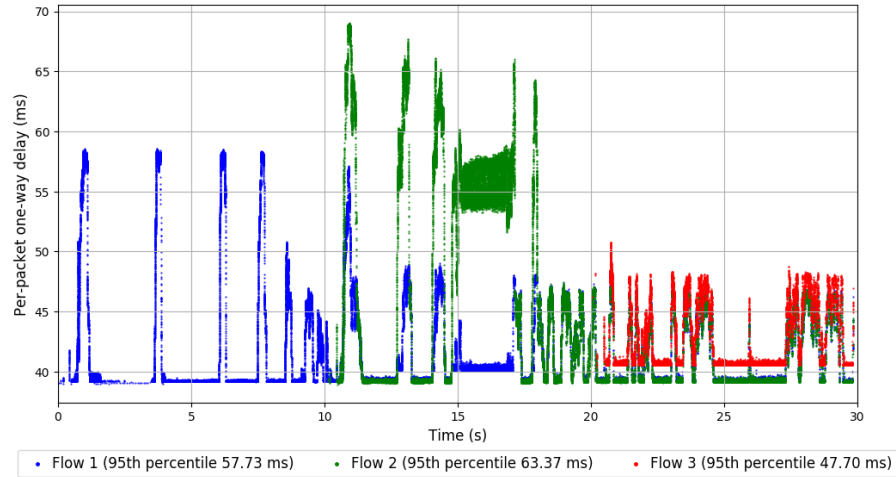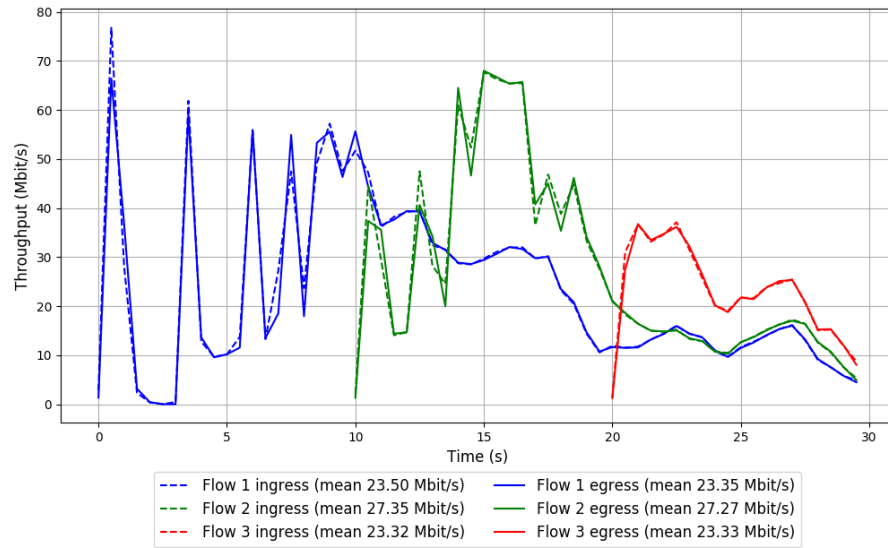
Run 6: Report of QUIC Cubic — Data Link

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-03-21 02:23:02
End at: 2018-03-21 02:23:32
Local clock offset: -0.352 ms
Remote clock offset: -10.271 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.09 Mbit/s
95th percentile per-packet one-way delay: 65.377 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 33.31 Mbit/s
95th percentile per-packet one-way delay: 59.054 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 40.87 Mbit/s
95th percentile per-packet one-way delay: 68.299 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 17.23 Mbit/s
95th percentile per-packet one-way delay: 66.461 ms
Loss rate: 1.05%
```

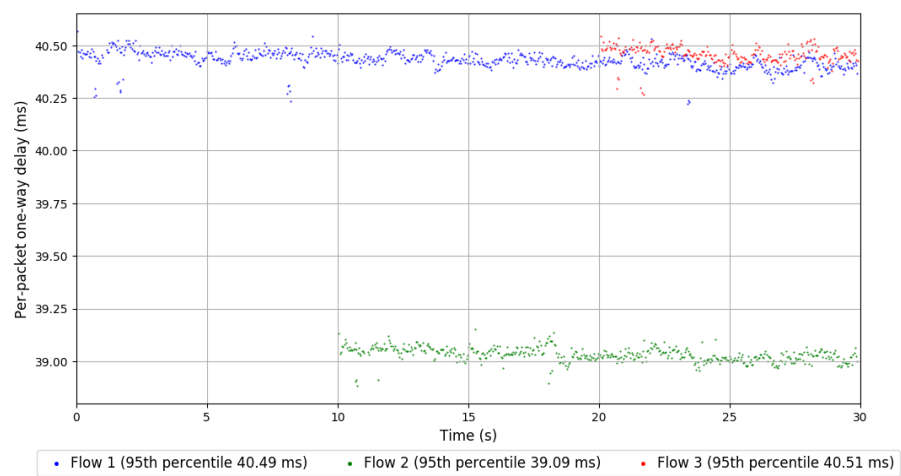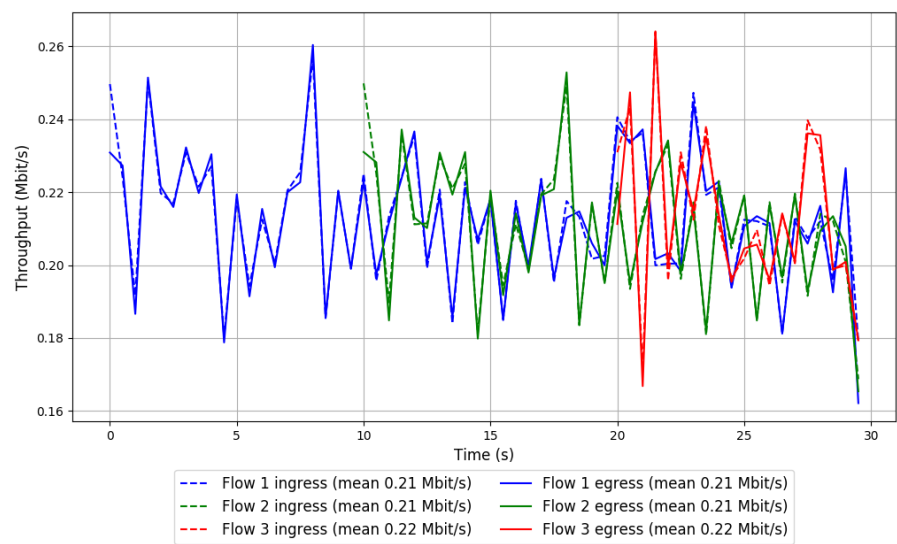Run 7: Report of QUIC Cubic — Data Link

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-03-21 02:48:28
End at: 2018-03-21 02:48:58
Local clock offset: -0.366 ms
Remote clock offset: -9.112 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 66.688 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 42.20 Mbit/s
95th percentile per-packet one-way delay: 57.989 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 14.35 Mbit/s
95th percentile per-packet one-way delay: 46.622 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 33.70 Mbit/s
95th percentile per-packet one-way delay: 71.884 ms
Loss rate: 0.93%
```
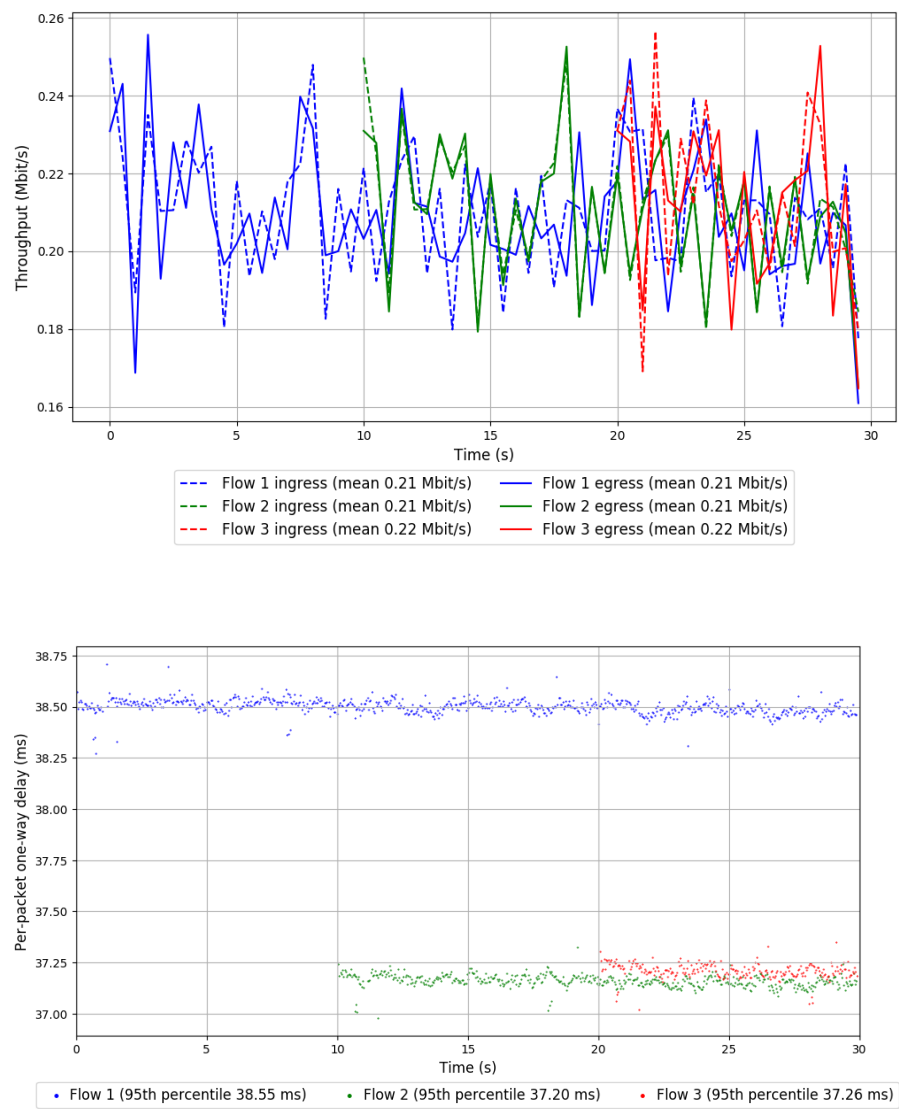
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 42.33 Mbit/s)   Flow 1 egress (mean 42.20 Mbit/s)
Flow 2 ingress (mean 14.40 Mbit/s)   Flow 2 egress (mean 14.35 Mbit/s)
Flow 3 ingress (mean 33.81 Mbit/s)   Flow 3 egress (mean 33.70 Mbit/s)

Flow 1 (95th percentile 57.99 ms)   Flow 2 (95th percentile 46.62 ms)   Flow 3 (95th percentile 71.88 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-03-21 03:15:15
End at: 2018-03-21 03:15:45
Local clock offset: -0.415 ms
Remote clock offset: -6.538 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.48 Mbit/s
95th percentile per-packet one-way delay: 53.512 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 10.97 Mbit/s
95th percentile per-packet one-way delay: 44.036 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 57.841 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 45.333 ms
Loss rate: 1.11%
```

Run 9: Report of QUIC Cubic — Data Link

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-03-21 03:40:41
End at: 2018-03-21 03:41:11
Local clock offset: -0.252 ms
Remote clock offset: -9.534 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.11 Mbit/s
95th percentile per-packet one-way delay: 58.459 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 57.733 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 27.27 Mbit/s
95th percentile per-packet one-way delay: 63.365 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 23.33 Mbit/s
95th percentile per-packet one-way delay: 47.696 ms
Loss rate: 0.66%
```

Run 10: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2018-03-20 23:59:24
End at: 2018-03-20 23:59:54
Local clock offset: -0.451 ms
Remote clock offset: -6.096 ms

# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 40.492 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.486 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.086 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 40.514 ms
Loss rate: 0.35%
```
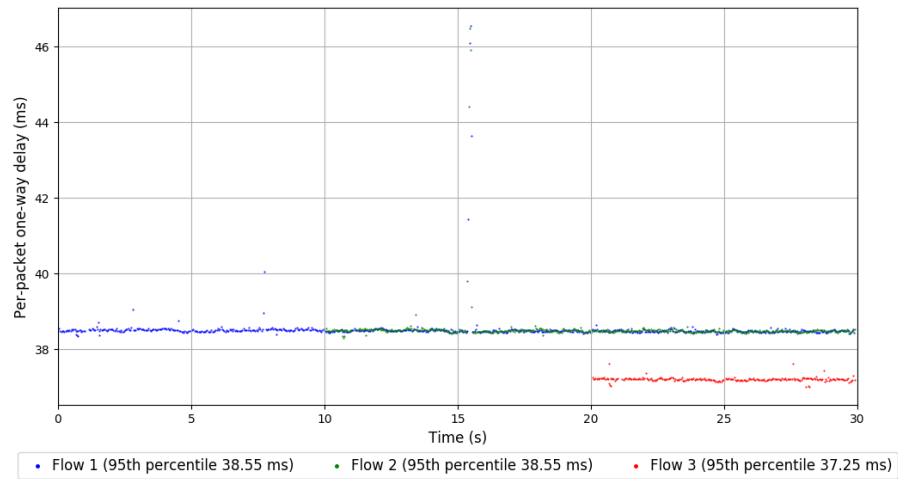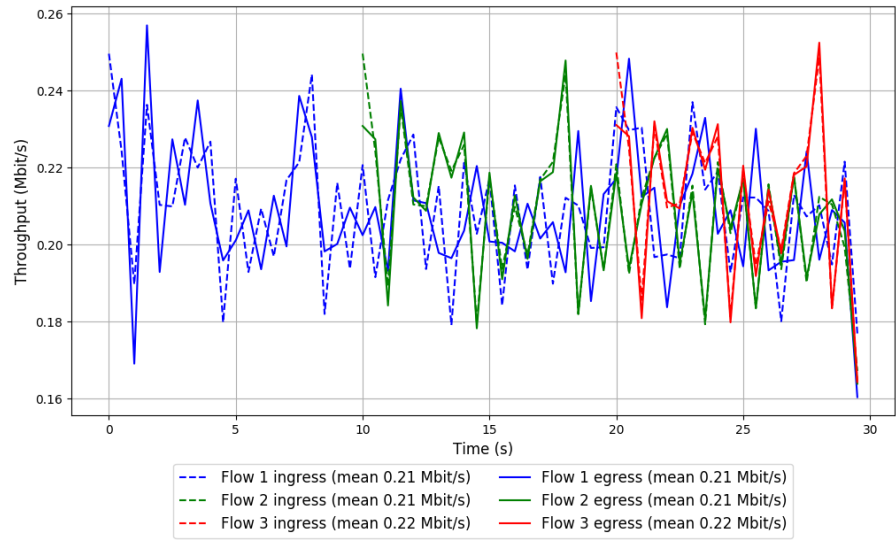
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2018-03-21 00:24:24
End at: 2018-03-21 00:24:54
Local clock offset: 0.039 ms
Remote clock offset: -5.187 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 38.538 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.549 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 37.205 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.262 ms
Loss rate: 0.35%
```
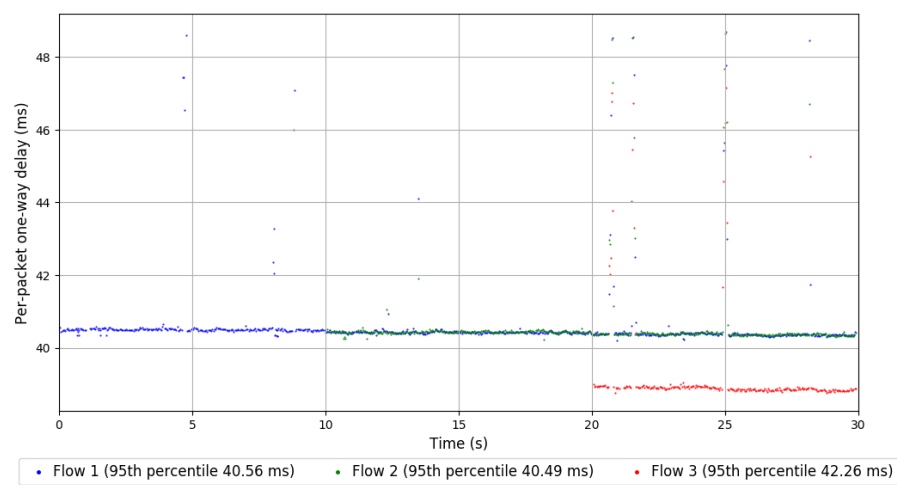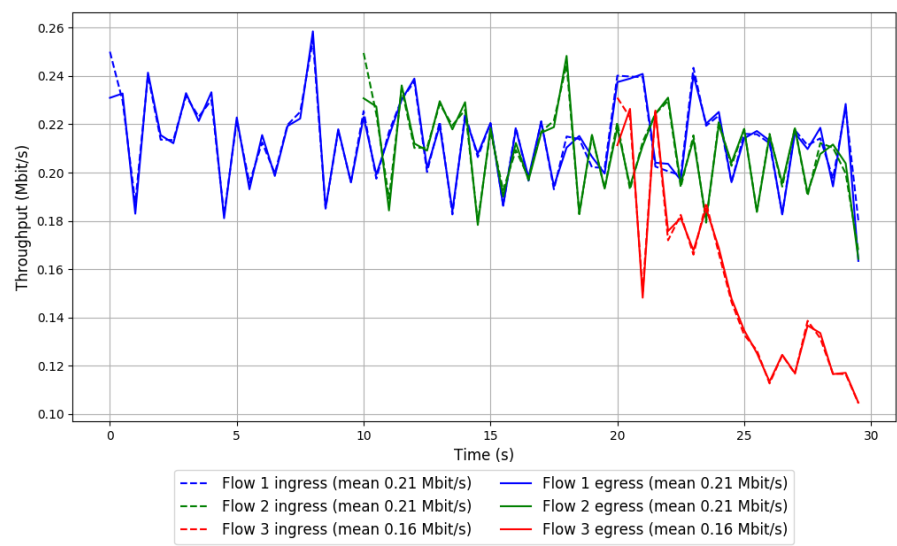
Run 2: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 38.55 ms)   Flow 2 (95th percentile 37.20 ms)   Flow 3 (95th percentile 37.26 ms)

```
Run 3: Statistics of SCReAM

Start at: 2018-03-21 00:49:34
End at: 2018-03-21 00:50:04
Local clock offset: 0.43 ms
Remote clock offset: -9.077 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 40.496 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.053 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.513 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 39.124 ms
Loss rate: 0.35%
```
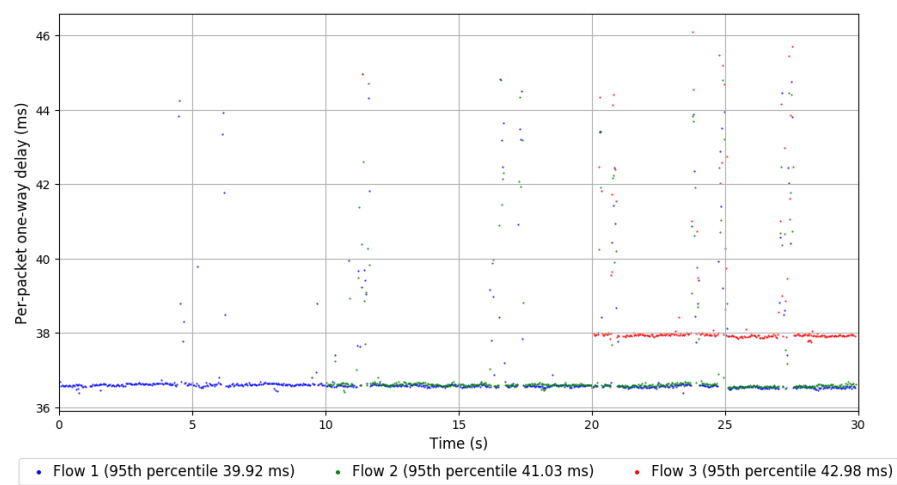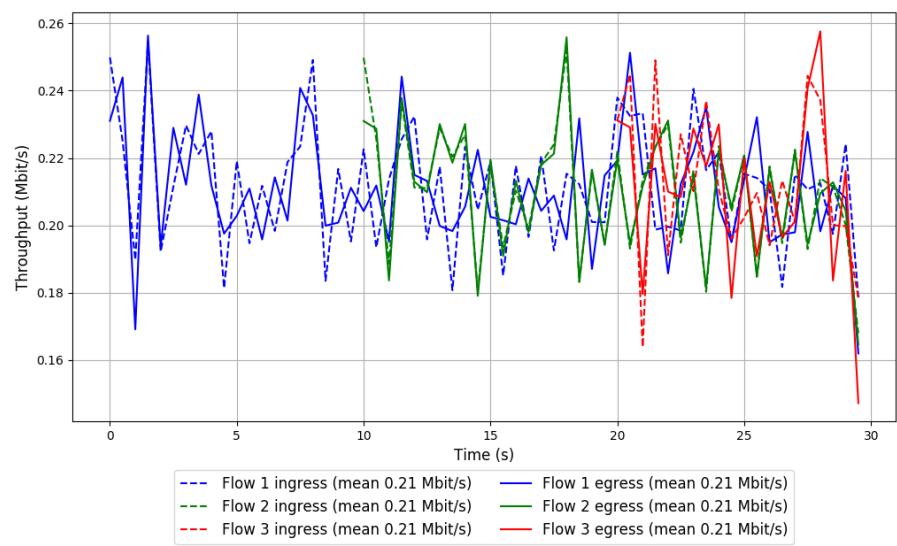
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2018-03-21 01:14:25
End at: 2018-03-21 01:14:55
Local clock offset: -0.078 ms
Remote clock offset: -2.486 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 36.824 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.757 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.730 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.851 ms
Loss rate: 0.74%
```
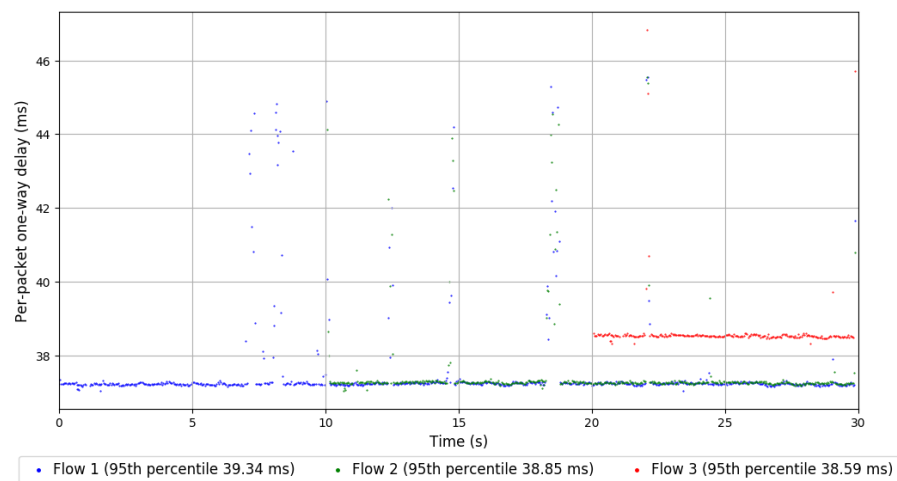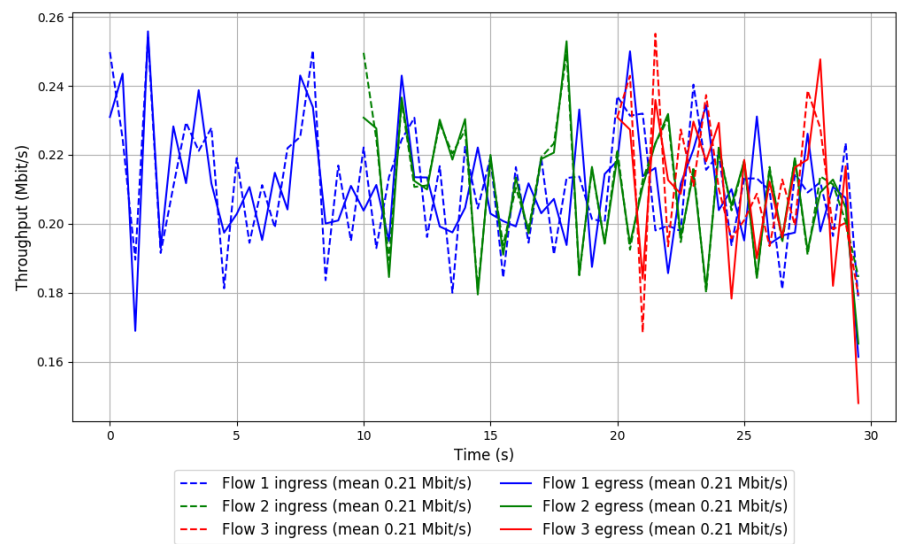
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2018-03-21 01:39:16
End at: 2018-03-21 01:39:46
Local clock offset: -0.526 ms
Remote clock offset: -2.654 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 38.544 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.550 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.546 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.250 ms
Loss rate: 0.35%
```
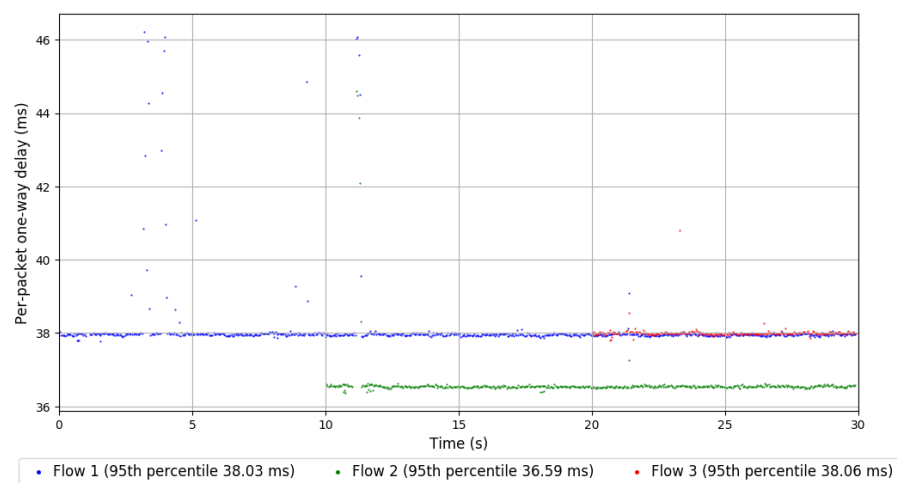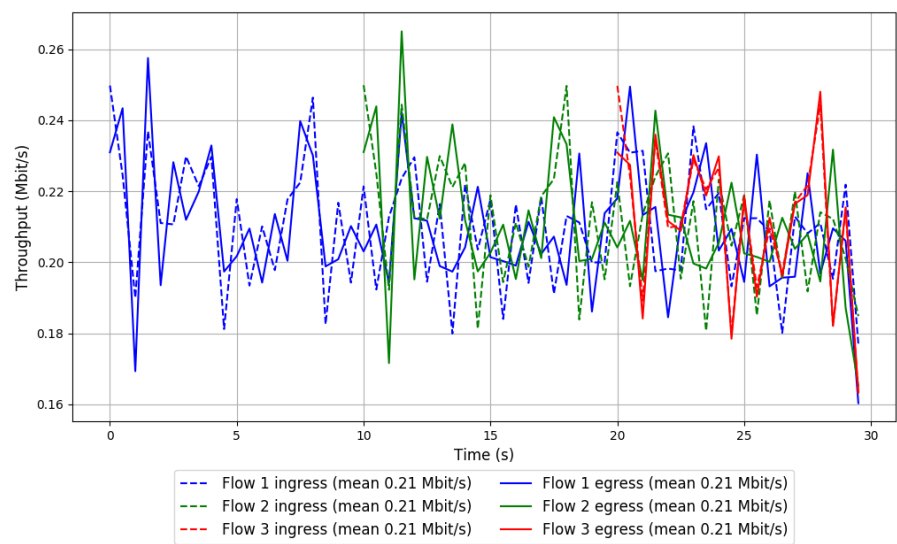
Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2018-03-21 02:04:23
End at: 2018-03-21 02:04:53
Local clock offset: -0.648 ms
Remote clock offset: -7.025 ms

# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 40.547 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.557 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.493 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 42.261 ms
Loss rate: 0.34%
```
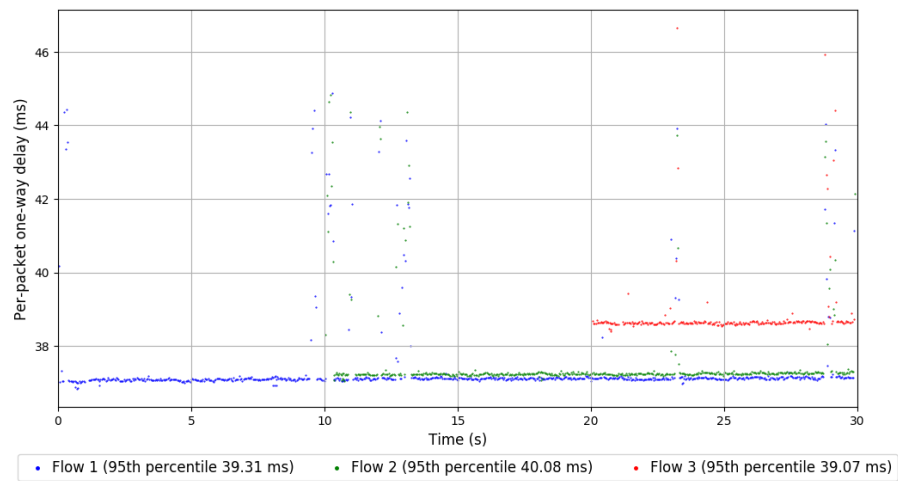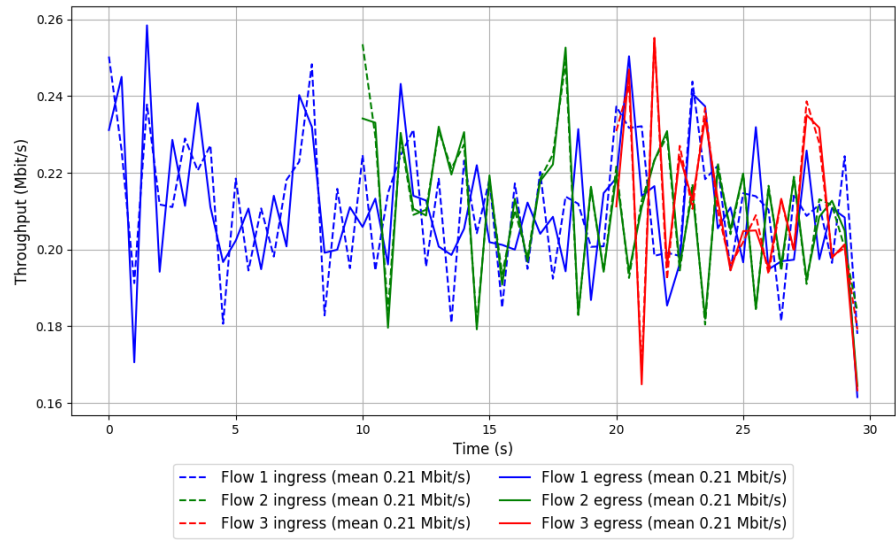
Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: 2018-03-21 02:30:02
End at: 2018-03-21 02:30:32
Local clock offset: -0.293 ms
Remote clock offset: -8.427 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 41.430 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.917 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.035 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 42.981 ms
Loss rate: 0.74%
```
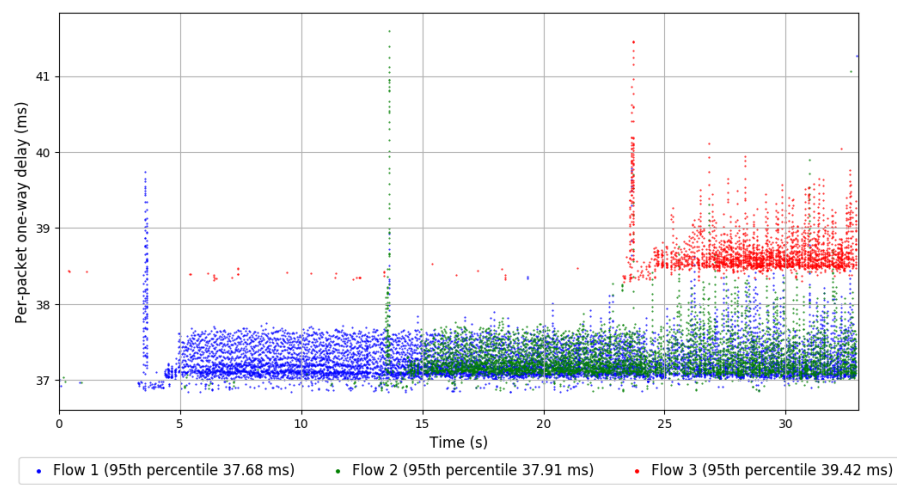
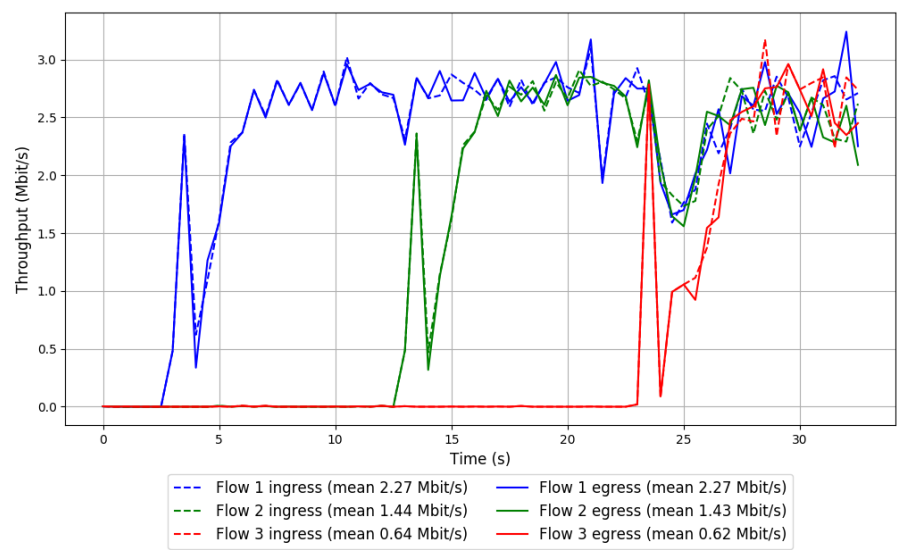# Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: 2018-03-21 02:55:39
End at: 2018-03-21 02:56:09
Local clock offset: -0.279 ms
Remote clock offset: -6.946 ms

# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 38.878 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.339 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.848 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.588 ms
Loss rate: 0.74%
```

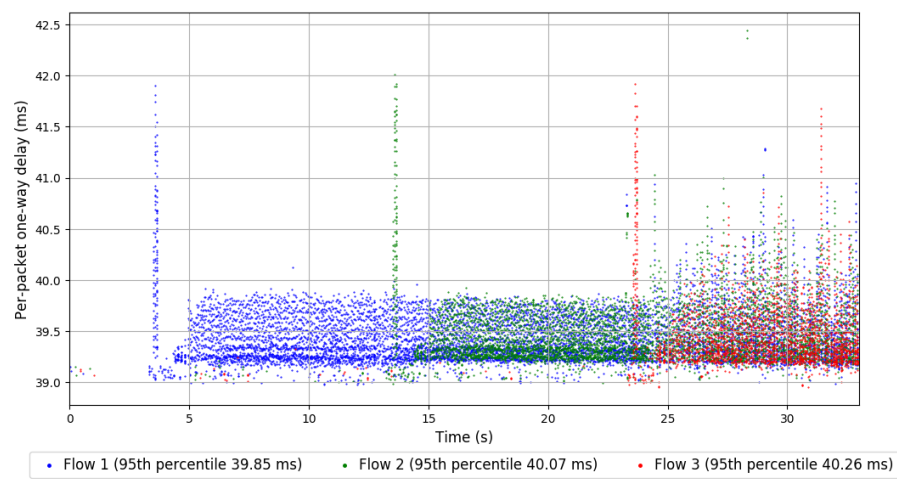# Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: 2018-03-21 03:22:18
End at: 2018-03-21 03:22:48
Local clock offset: -0.288 ms
Remote clock offset: -6.478 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 38.027 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.027 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.594 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.063 ms
Loss rate: 0.35%
```
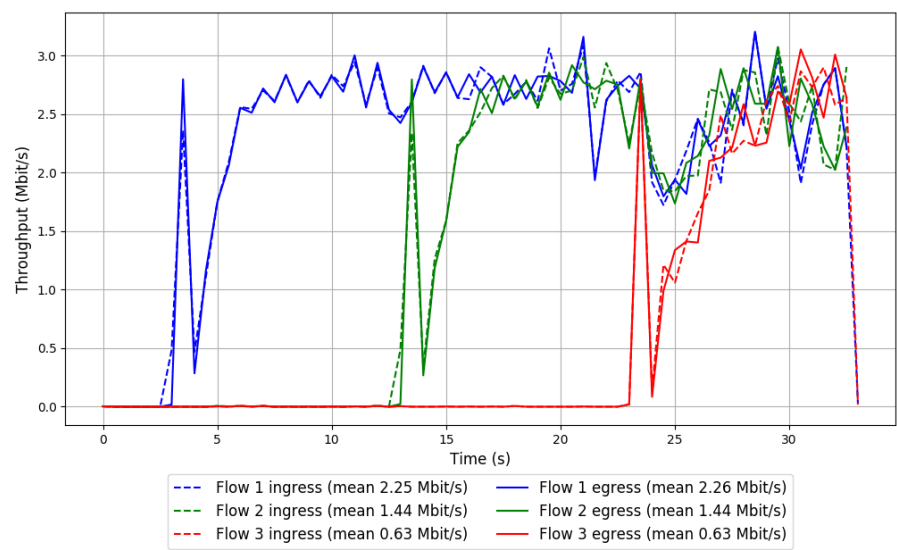
Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2018-03-21 03:47:54
End at: 2018-03-21 03:48:24
Local clock offset: -0.231 ms
Remote clock offset: -5.653 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 39.342 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.307 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.076 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.067 ms
Loss rate: 0.74%
```
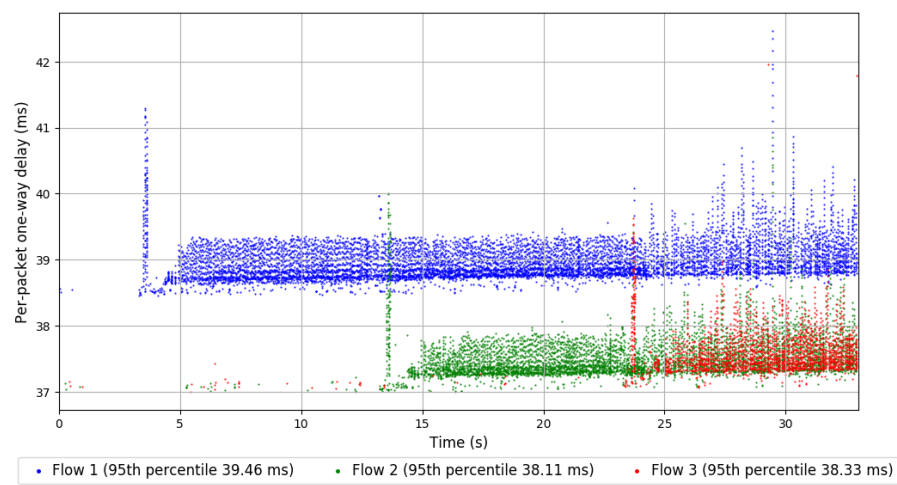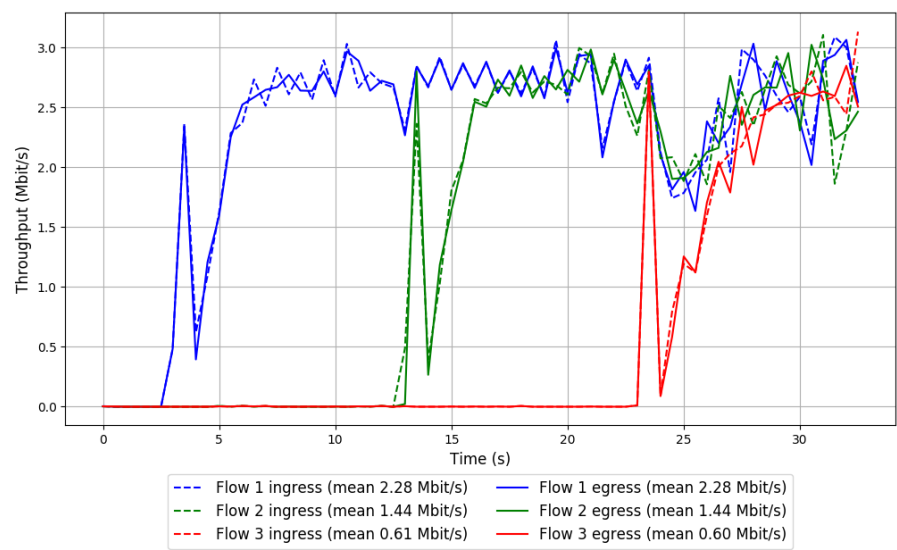
Run 10: Report of SCReAM — Data Link

123

```
Run 1: Statistics of WebRTC media

Start at: 2018-03-21 00:07:34
End at: 2018-03-21 00:08:04
Local clock offset: -0.141 ms
Remote clock offset: -4.667 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 38.737 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 37.676 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 37.909 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 39.423 ms
Loss rate: 1.90%
```
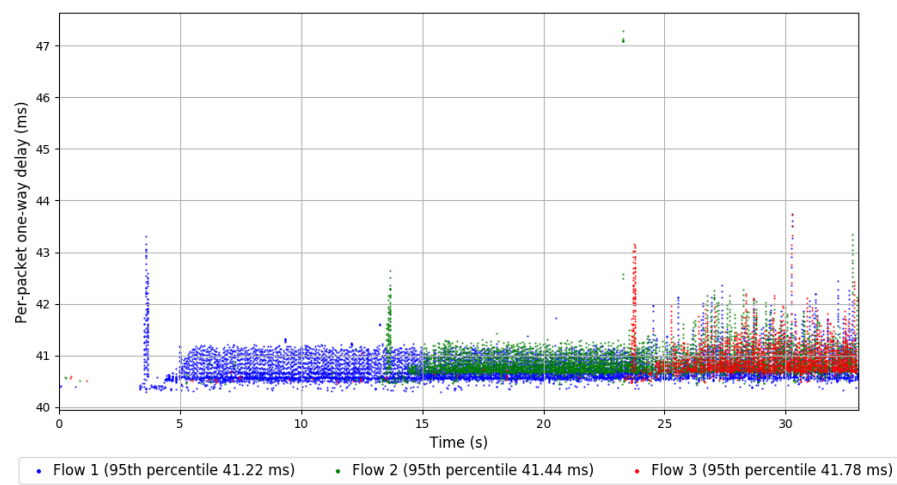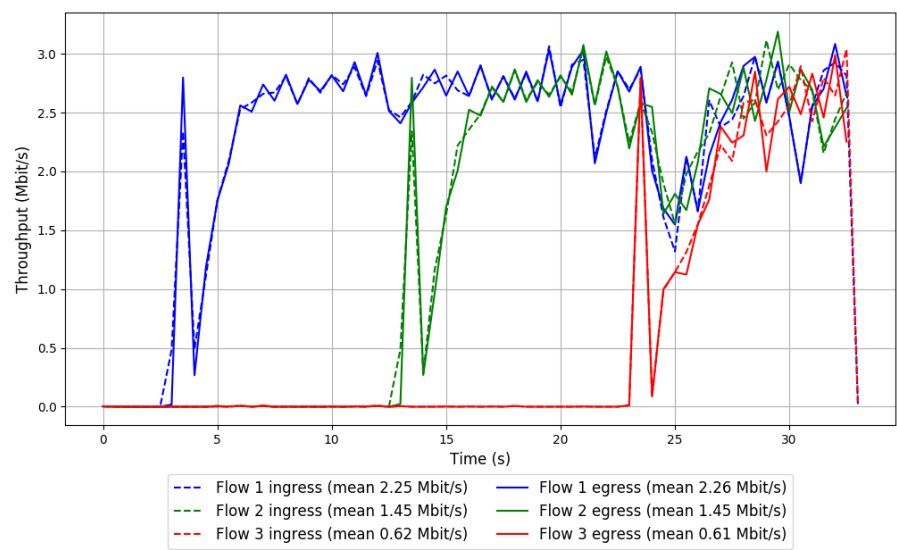
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-03-21 00:32:41
End at: 2018-03-21 00:33:11
Local clock offset: 0.176 ms
Remote clock offset: -7.691 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 39.981 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 39.846 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 40.071 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 40.256 ms
Loss rate: 0.05%
```
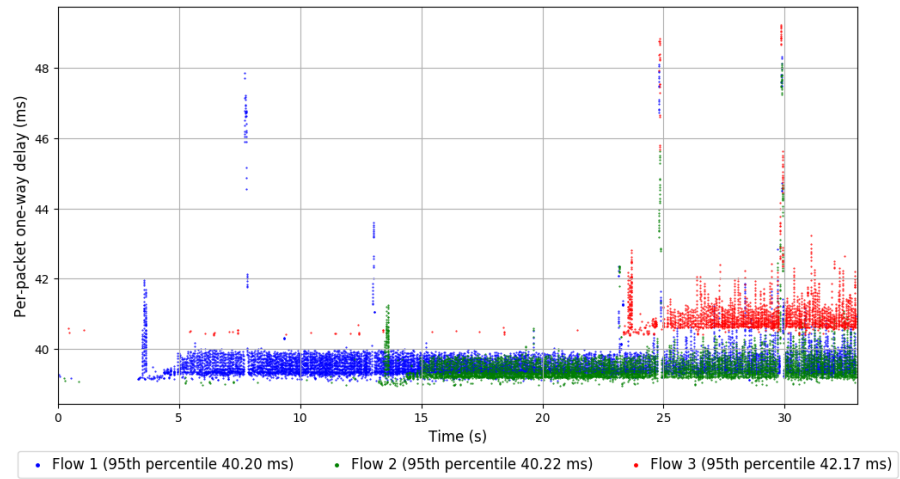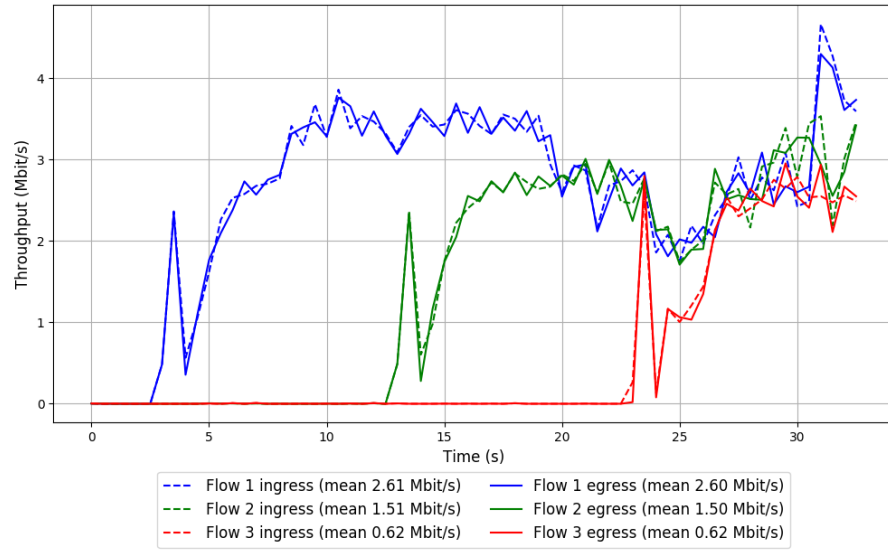
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-03-21 00:57:43
End at: 2018-03-21 00:58:13
Local clock offset: 0.631 ms
Remote clock offset: -4.449 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 39.318 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 39.464 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 38.106 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 38.332 ms
Loss rate: 1.57%
```
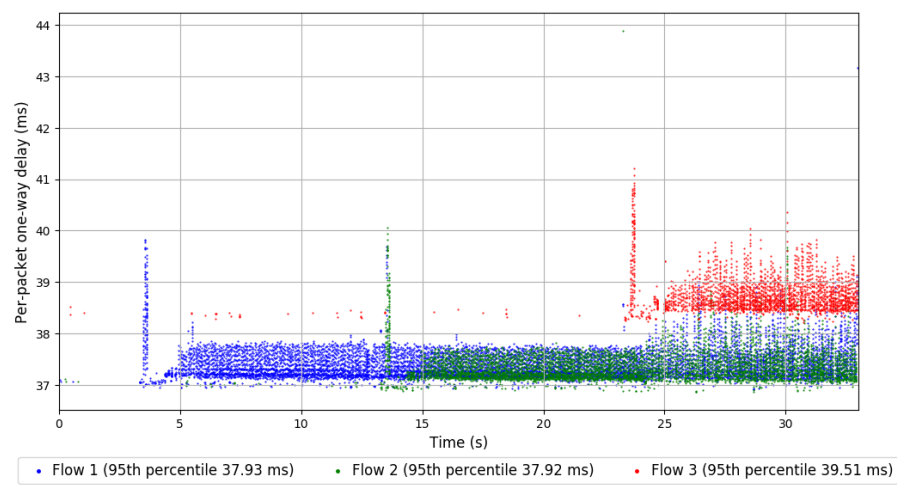
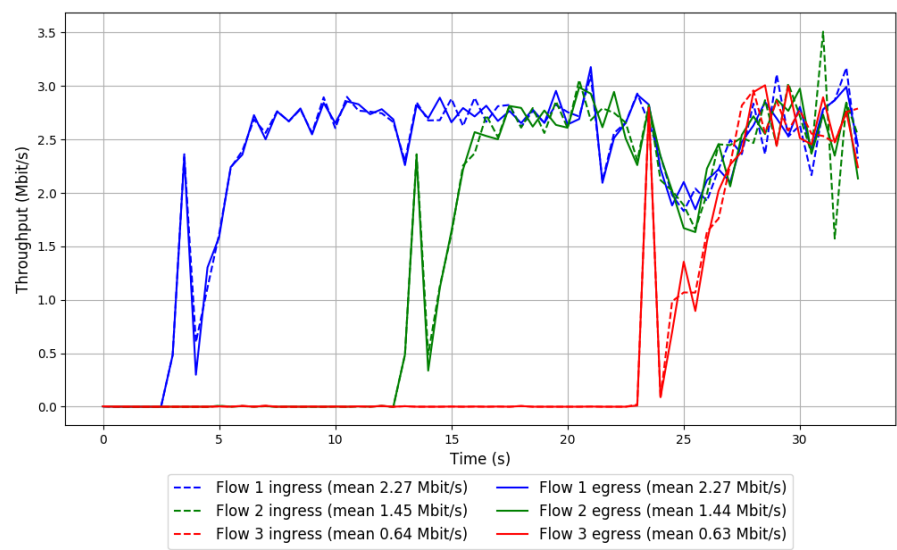Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-03-21 01:22:35
End at: 2018-03-21 01:23:05
Local clock offset: -0.333 ms
Remote clock offset: -5.108 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 41.426 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 41.215 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 41.444 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 41.784 ms
Loss rate: 1.98%
```
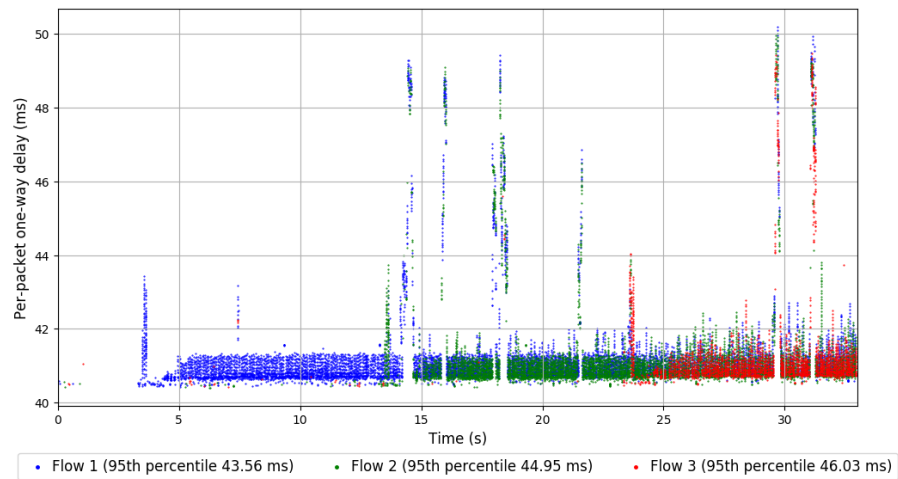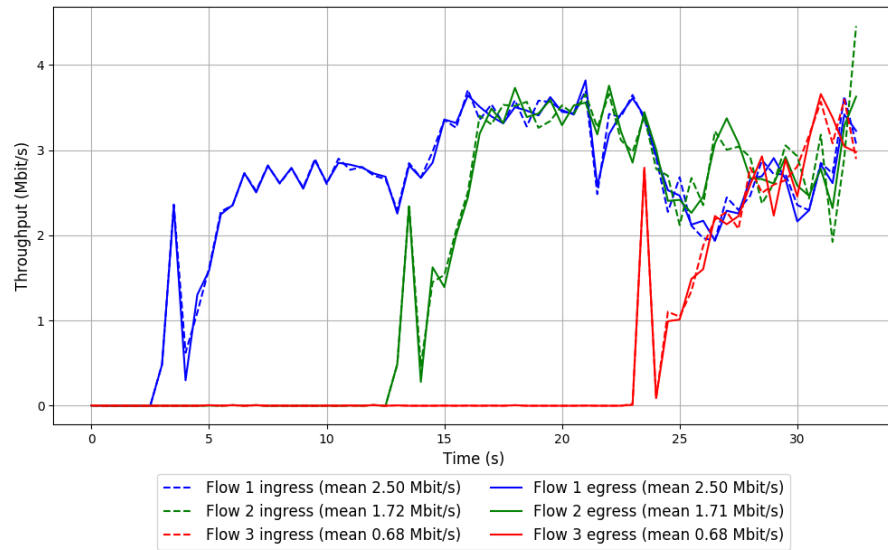
Run 4: Report of WebRTC media — Data Link

Legend:
- Flow 1 ingress (mean 2.25 Mbit/s)
- Flow 1 egress (mean 2.26 Mbit/s)
- Flow 2 ingress (mean 1.45 Mbit/s)
- Flow 2 egress (mean 1.45 Mbit/s)
- Flow 3 ingress (mean 0.62 Mbit/s)
- Flow 3 egress (mean 0.61 Mbit/s)

Legend:
- Flow 1 (95th percentile 41.22 ms)
- Flow 2 (95th percentile 41.44 ms)
- Flow 3 (95th percentile 41.78 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2018-03-21 01:47:27
End at: 2018-03-21 01:47:57
Local clock offset: -0.483 ms
Remote clock offset: -4.972 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 41.151 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 40.195 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 40.218 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 42.175 ms
Loss rate: 0.53%
```
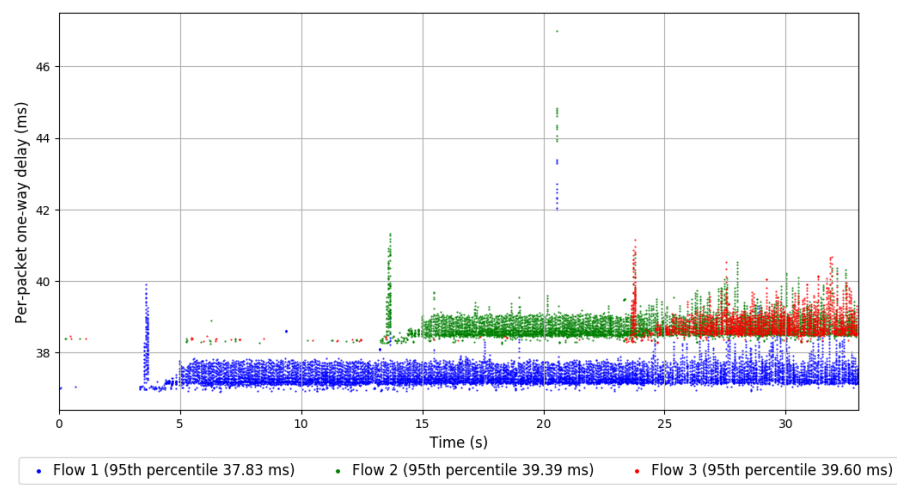
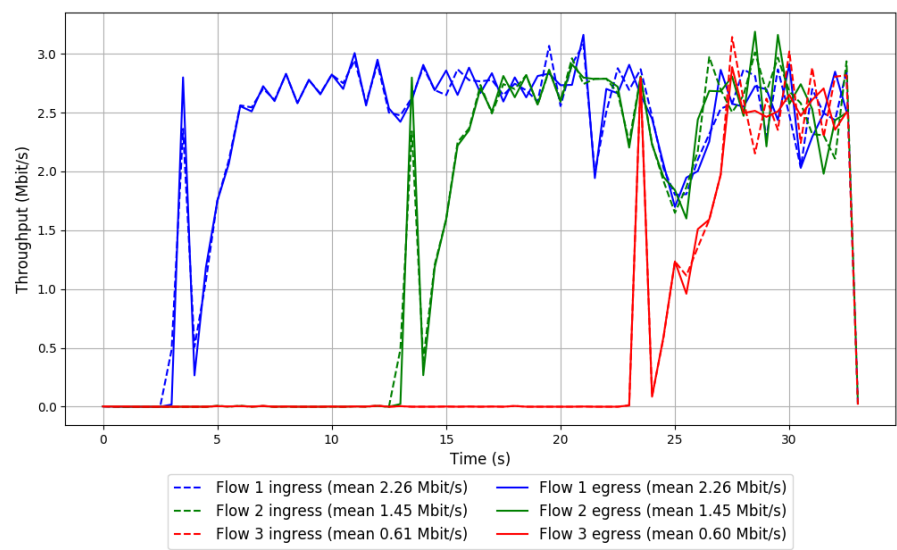Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2018-03-21 02:12:42
End at: 2018-03-21 02:13:12
Local clock offset: -0.567 ms
Remote clock offset: -6.701 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 38.852 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 37.933 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 37.923 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 39.510 ms
Loss rate: 1.33%
```
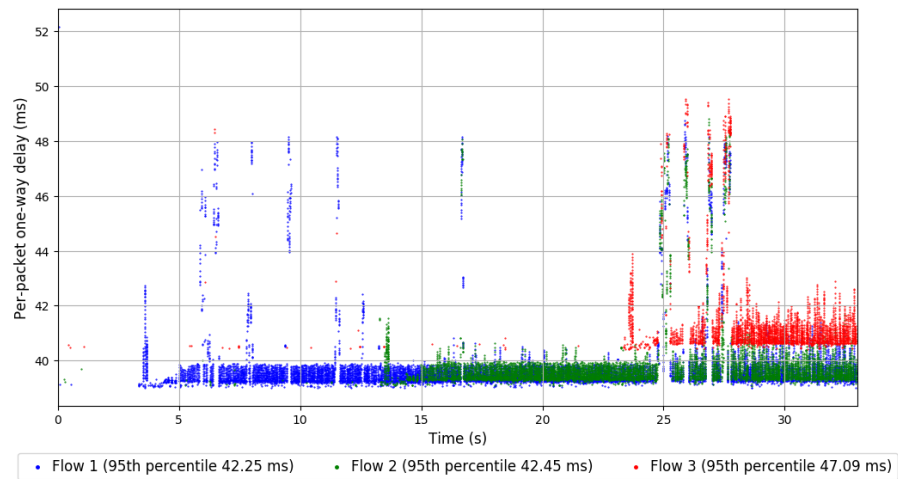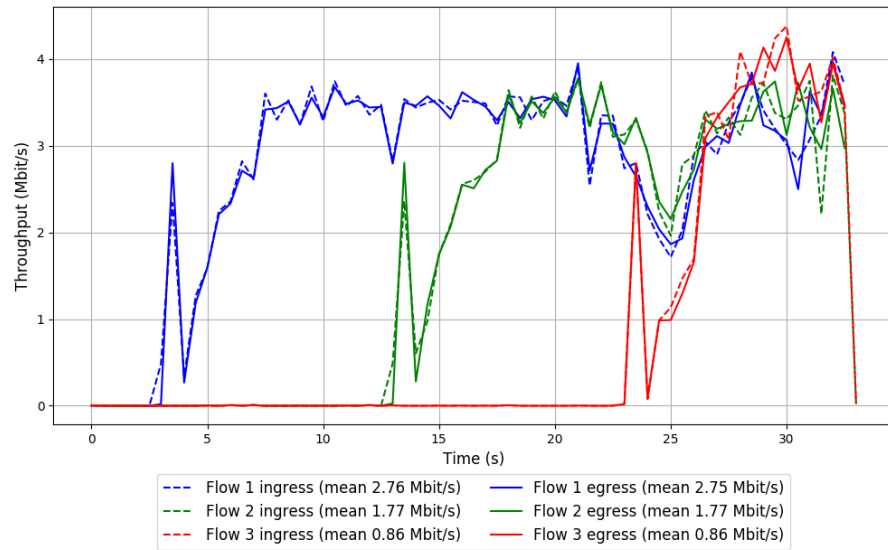
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-03-21 02:38:26
End at: 2018-03-21 02:38:56
Local clock offset: -0.237 ms
Remote clock offset: -9.954 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 44.376 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 43.564 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 44.947 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 46.027 ms
Loss rate: 1.33%
```

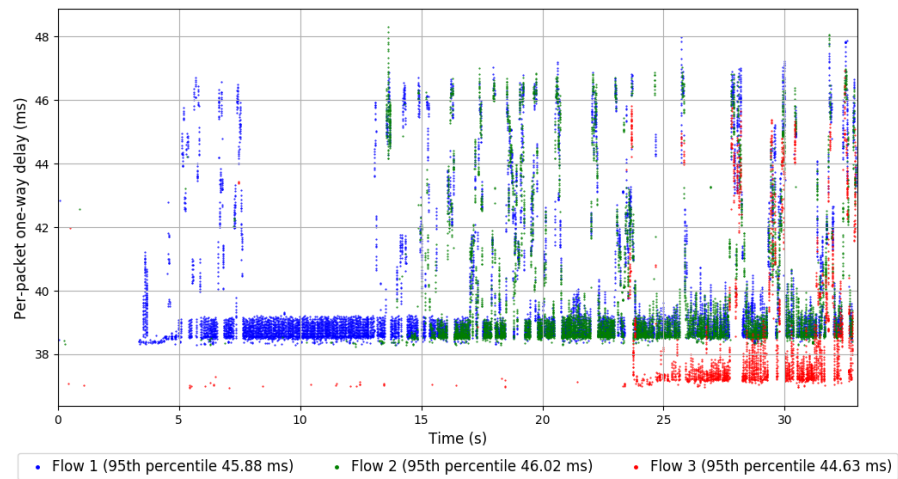Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-03-21 03:03:56
End at: 2018-03-21 03:04:26
Local clock offset: -0.308 ms
Remote clock offset: -7.074 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 39.173 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 37.831 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 39.392 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 39.597 ms
Loss rate: 1.94%
```
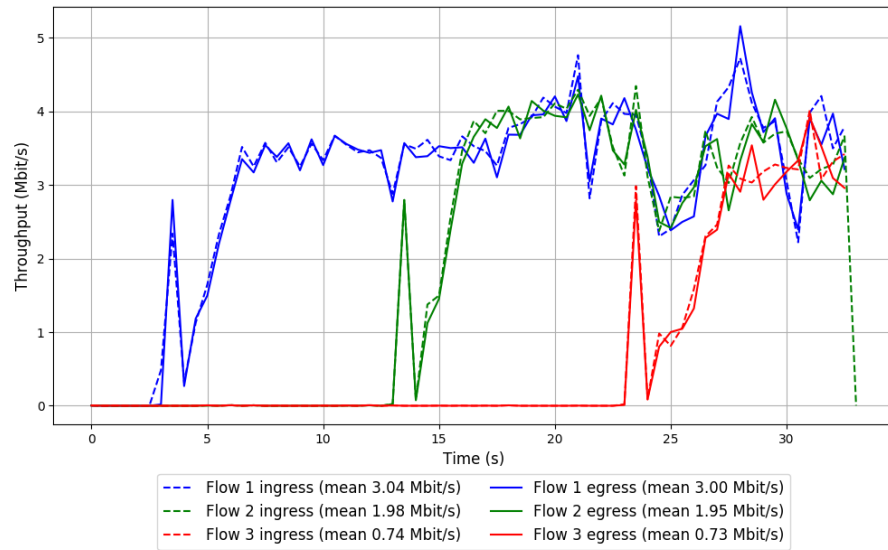
Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2018-03-21 03:30:24
End at: 2018-03-21 03:30:54
Local clock offset: -0.203 ms
Remote clock offset: -9.448 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 43.871 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 42.251 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 42.453 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 47.086 ms
Loss rate: 1.26%
```
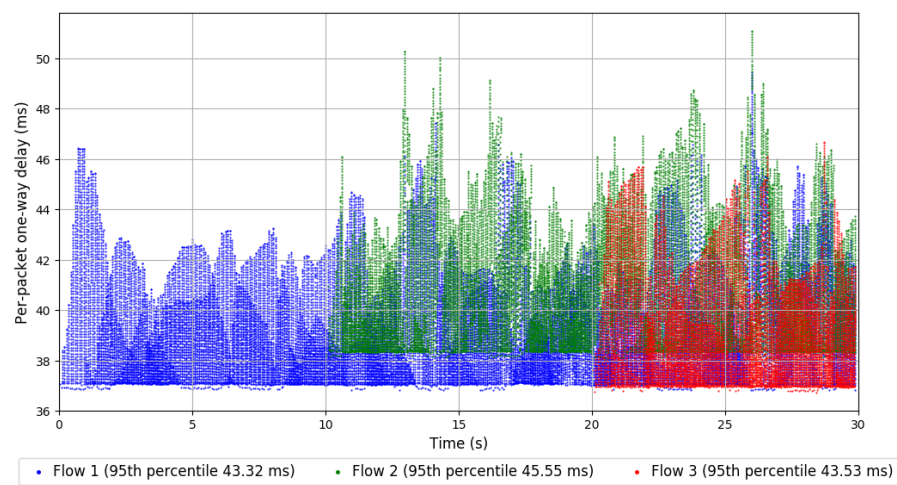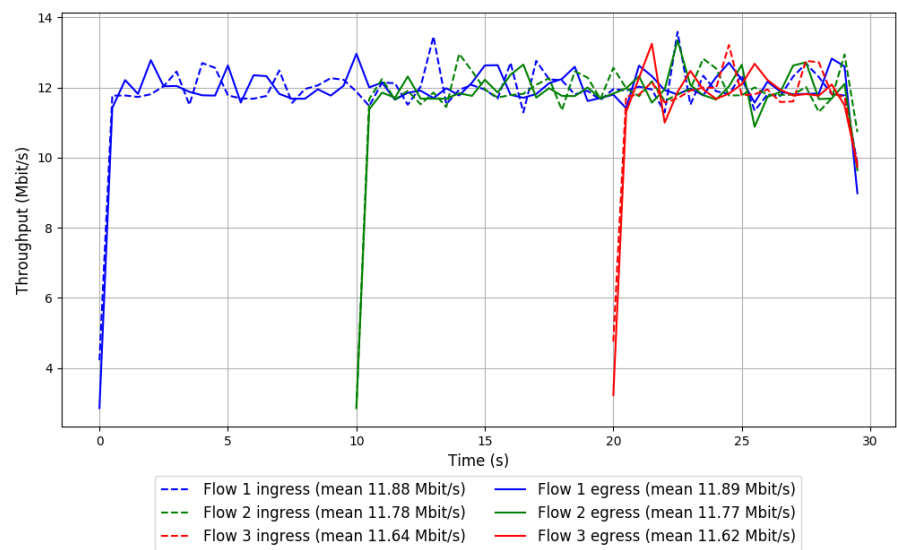
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-03-21 03:57:08
End at: 2018-03-21 03:57:38
Local clock offset: -0.045 ms
Remote clock offset: -4.196 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 45.807 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 45.875 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 46.023 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 44.628 ms
Loss rate: 2.63%
```

Run 10: Report of WebRTC media — Data Link

Flow 1 ingress (mean 3.04 Mbit/s) --- Flow 1 egress (mean 3.00 Mbit/s)
Flow 2 ingress (mean 1.98 Mbit/s) --- Flow 2 egress (mean 1.95 Mbit/s)
Flow 3 ingress (mean 0.74 Mbit/s) --- Flow 3 egress (mean 0.73 Mbit/s)

Flow 1 (95th percentile 45.88 ms)　　Flow 2 (95th percentile 46.02 ms)　　Flow 3 (95th percentile 44.63 ms)

```
Run 1: Statistics of Sprout

Start at: 2018-03-21 00:03:28
End at: 2018-03-21 00:03:58
Local clock offset: -0.321 ms
Remote clock offset: -4.291 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 44.398 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 43.323 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 45.554 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 43.533 ms
Loss rate: 0.78%
```
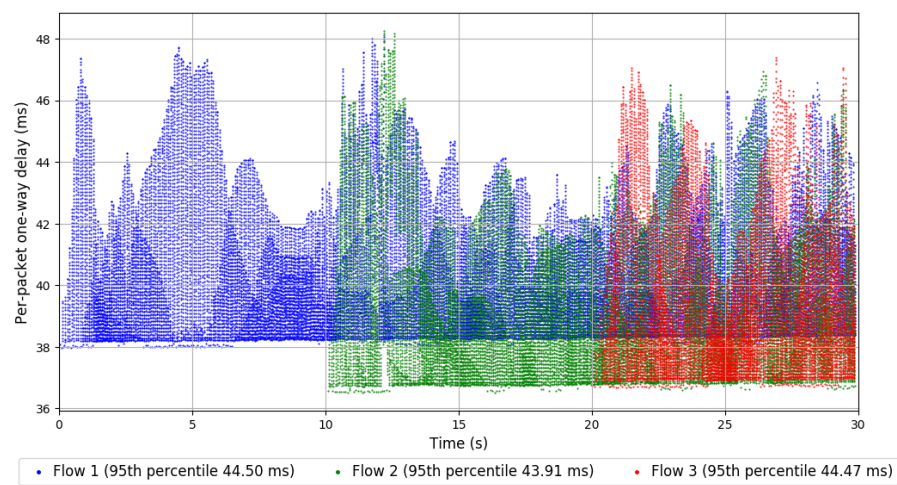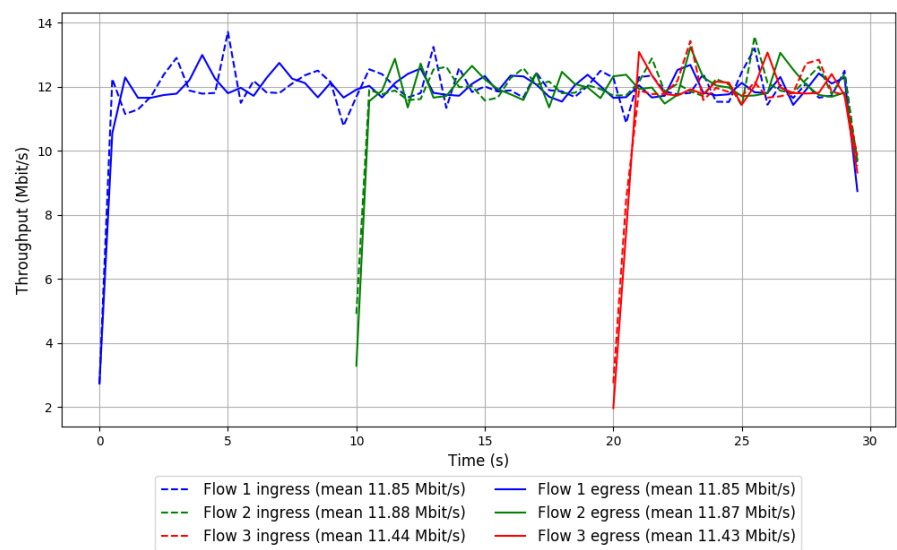
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-03-21 00:28:33
End at: 2018-03-21 00:29:03
Local clock offset: 0.055 ms
Remote clock offset: -7.379 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 46.035 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 45.129 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 46.351 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 47.047 ms
Loss rate: 0.85%
```
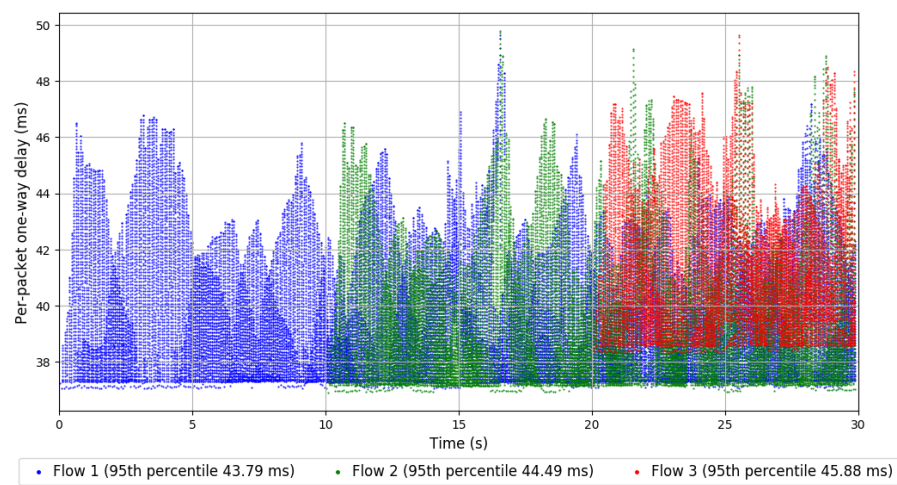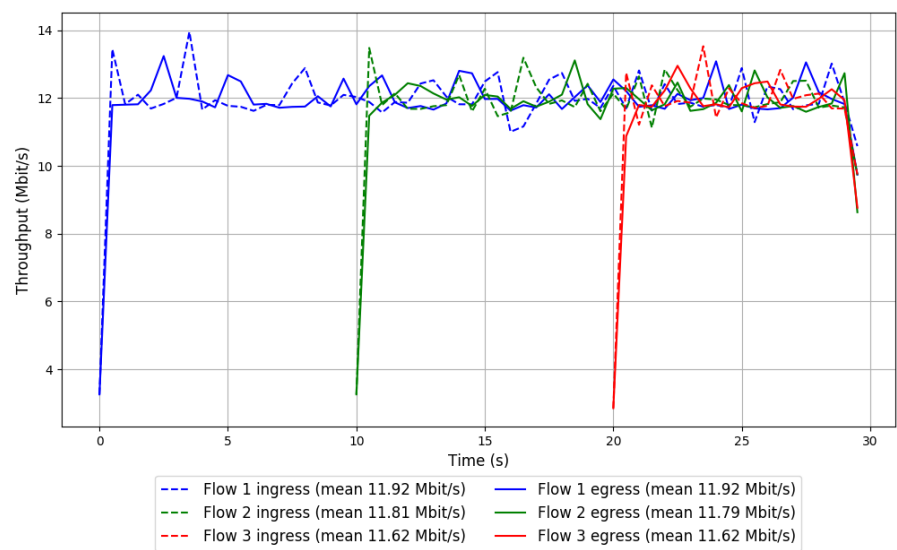
Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 11.89 Mbit/s) --- Flow 1 egress (mean 11.88 Mbit/s)
Flow 2 ingress (mean 11.77 Mbit/s) --- Flow 2 egress (mean 11.77 Mbit/s)
Flow 3 ingress (mean 11.56 Mbit/s) --- Flow 3 egress (mean 11.55 Mbit/s)

Flow 1 (95th percentile 45.13 ms)   Flow 2 (95th percentile 46.35 ms)   Flow 3 (95th percentile 47.05 ms)

```
Run 3: Statistics of Sprout

Start at: 2018-03-21 00:53:38
End at: 2018-03-21 00:54:08
Local clock offset: 0.582 ms
Remote clock offset: -5.189 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 44.328 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 44.502 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 43.906 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 44.473 ms
Loss rate: 0.87%
```
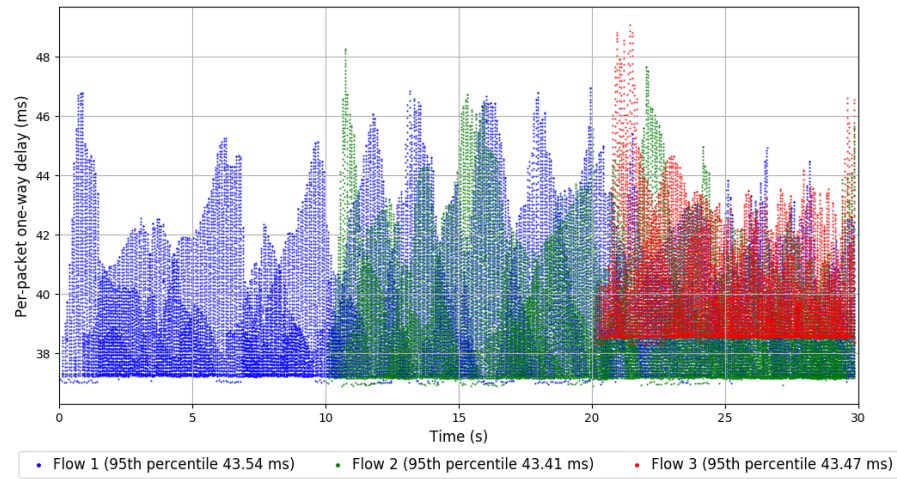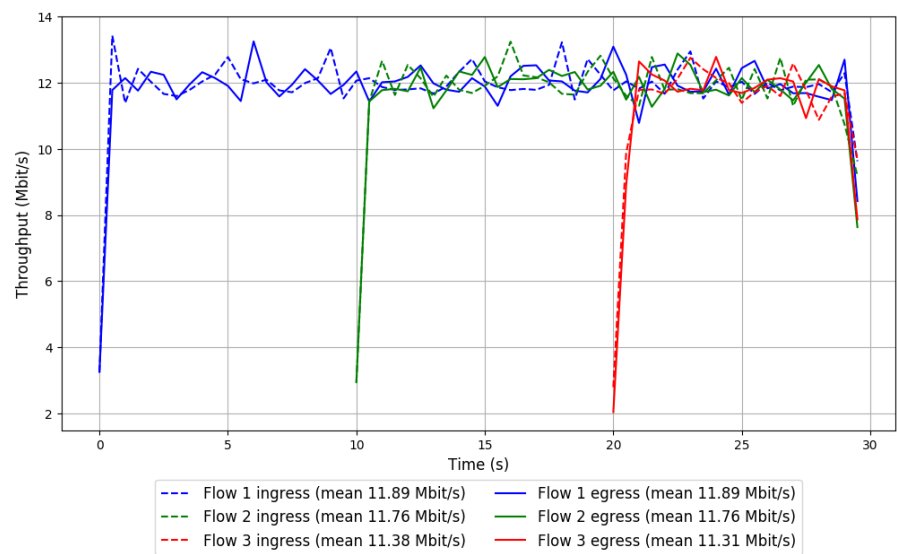
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2018-03-21 01:18:29
End at: 2018-03-21 01:18:59
Local clock offset: -0.185 ms
Remote clock offset: -2.955 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.56 Mbit/s
95th percentile per-packet one-way delay: 44.522 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 43.789 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 44.494 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 45.880 ms
Loss rate: 0.85%
```
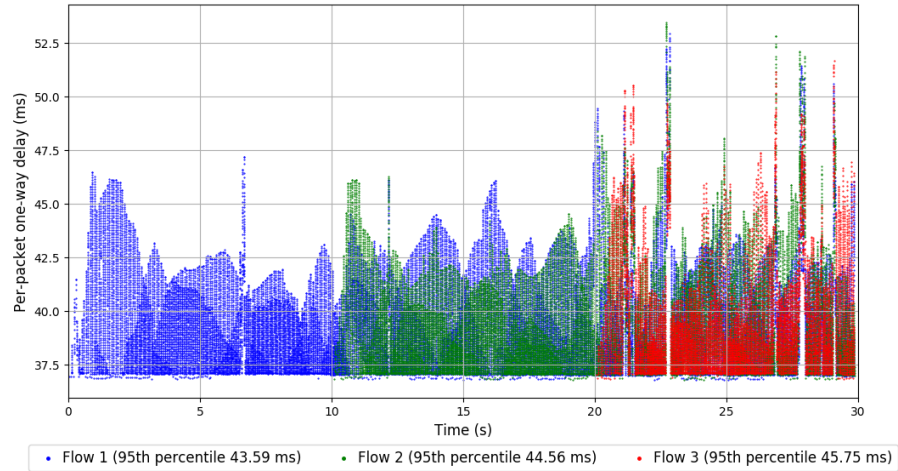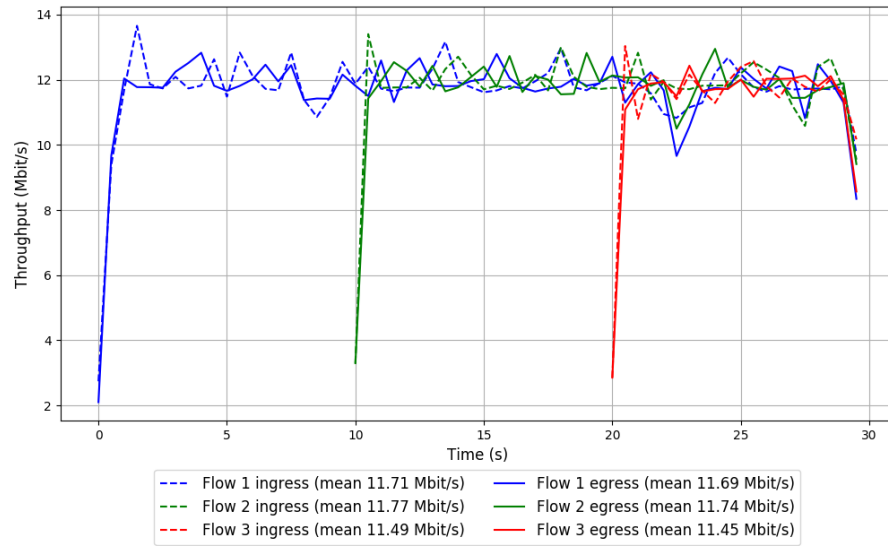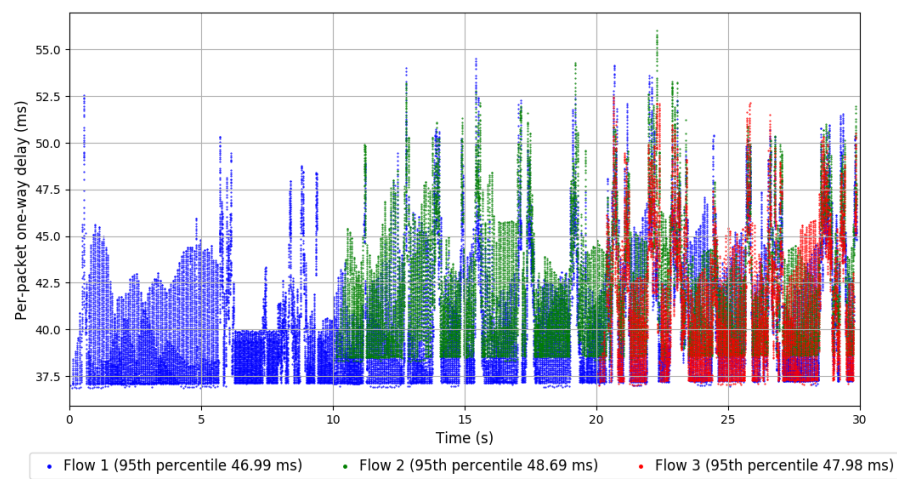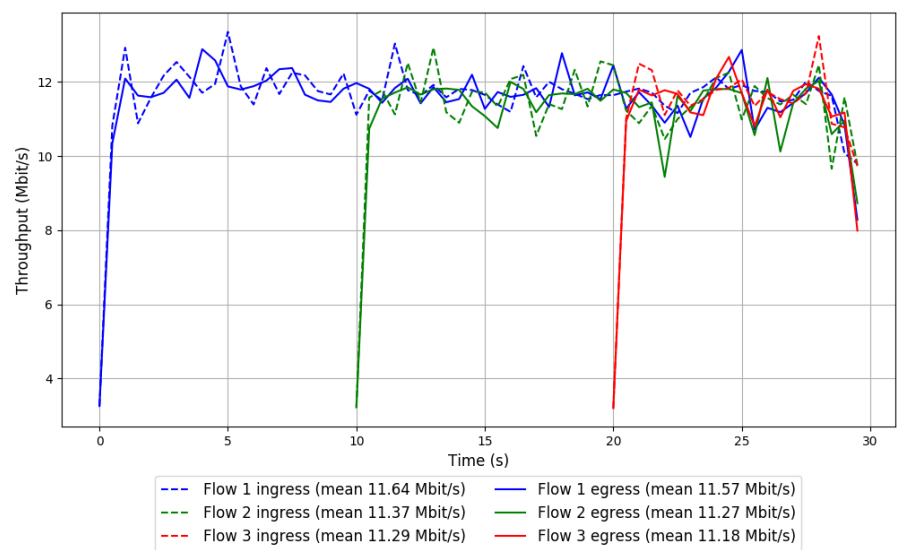
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-03-21 01:43:21
End at: 2018-03-21 01:43:51
Local clock offset: -0.486 ms
Remote clock offset: -2.7 ms


# Below is generated by plot.py at 2018-03-21 08:53:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 43.491 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 43.539 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 43.409 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 43.470 ms
Loss rate: 0.87%
```

Run 5: Report of Sprout — Data Link

- - - - Flow 1 ingress (mean 11.89 Mbit/s) —— Flow 1 egress (mean 11.89 Mbit/s)
- - - - Flow 2 ingress (mean 11.76 Mbit/s) —— Flow 2 egress (mean 11.76 Mbit/s)
- - - - Flow 3 ingress (mean 11.38 Mbit/s) —— Flow 3 egress (mean 11.31 Mbit/s)

• Flow 1 (95th percentile 43.54 ms)   • Flow 2 (95th percentile 43.41 ms)   • Flow 3 (95th percentile 43.47 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-03-21 02:08:37
End at: 2018-03-21 02:09:07
Local clock offset: -0.577 ms
Remote clock offset: -5.915 ms


# Below is generated by plot.py at 2018-03-21 08:54:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.24 Mbit/s
95th percentile per-packet one-way delay: 44.377 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 43.585 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 44.556 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 45.754 ms
Loss rate: 1.16%
```
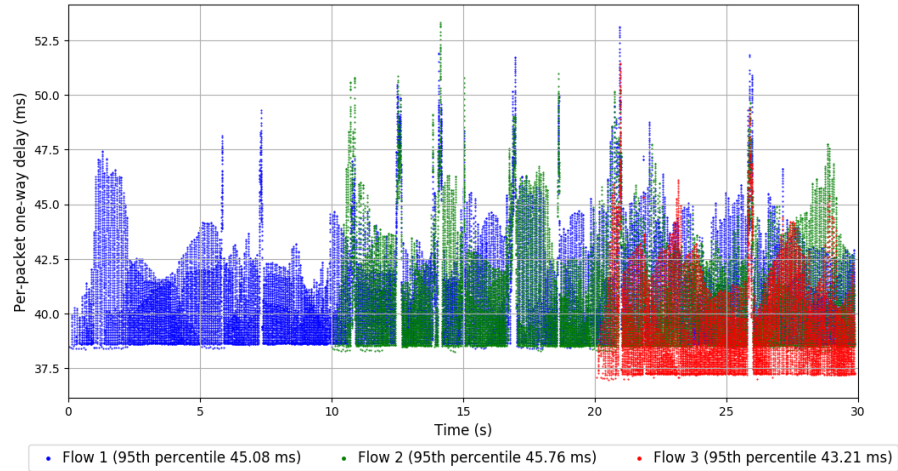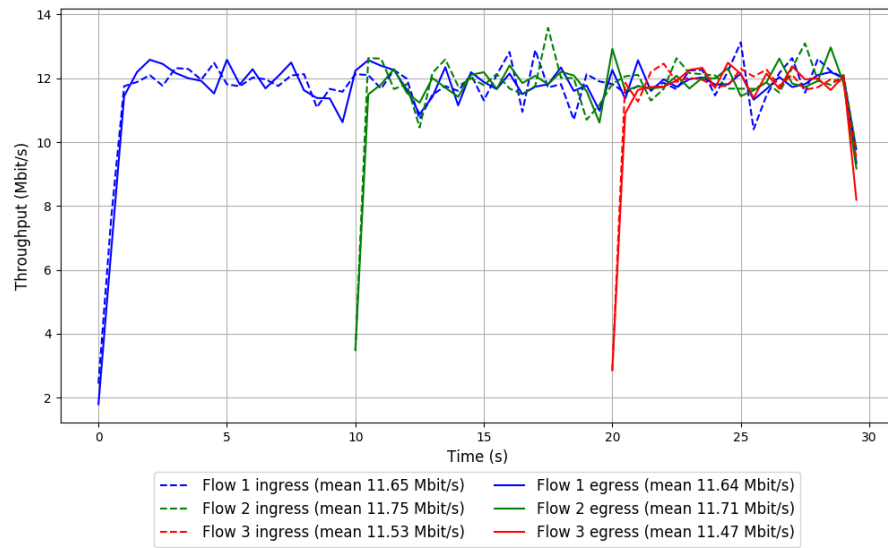
Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2018-03-21 02:34:11
End at: 2018-03-21 02:34:41
Local clock offset: -0.369 ms
Remote clock offset: -8.884 ms


# Below is generated by plot.py at 2018-03-21 08:54:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 47.889 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 46.990 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 11.27 Mbit/s
95th percentile per-packet one-way delay: 48.687 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 11.18 Mbit/s
95th percentile per-packet one-way delay: 47.984 ms
Loss rate: 1.65%
```
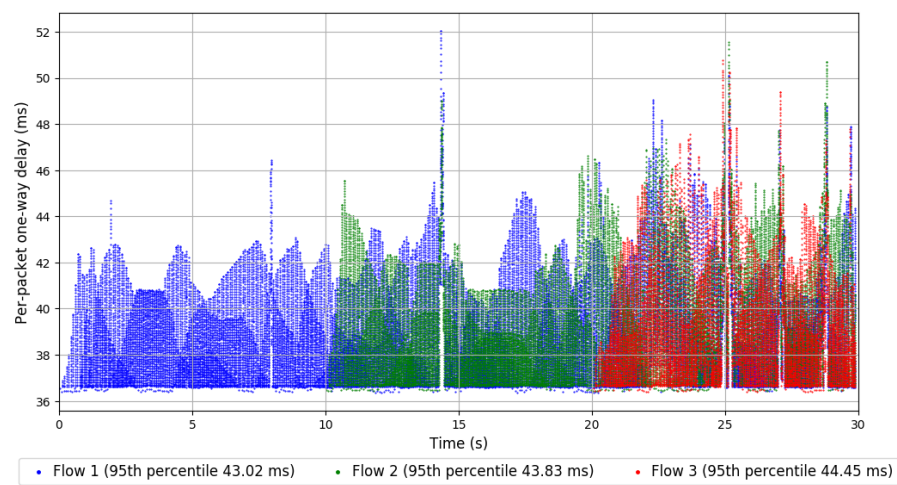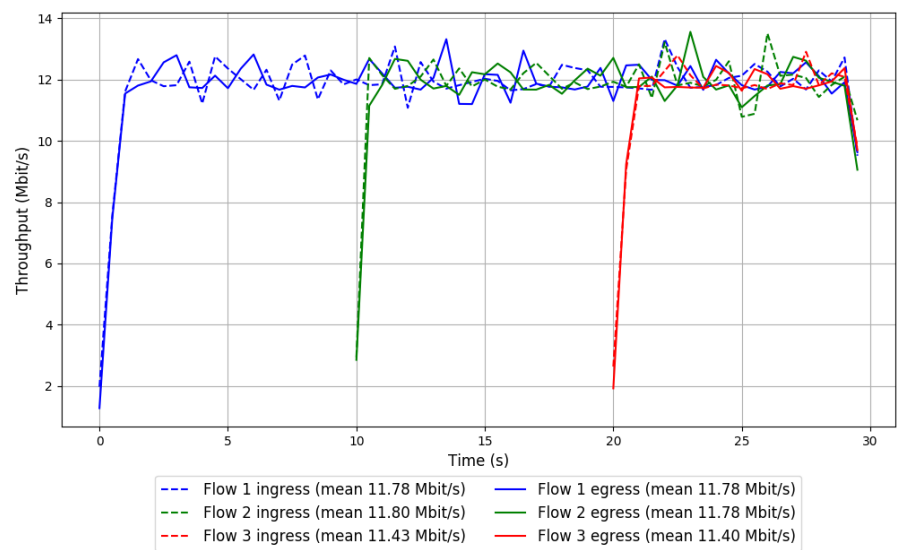
Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2018-03-21 02:59:51
End at: 2018-03-21 03:00:21
Local clock offset: -0.301 ms
Remote clock offset: -6.951 ms


# Below is generated by plot.py at 2018-03-21 08:54:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.19 Mbit/s
95th percentile per-packet one-way delay: 45.158 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 11.64 Mbit/s
95th percentile per-packet one-way delay: 45.076 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 45.756 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 43.211 ms
Loss rate: 0.92%
```
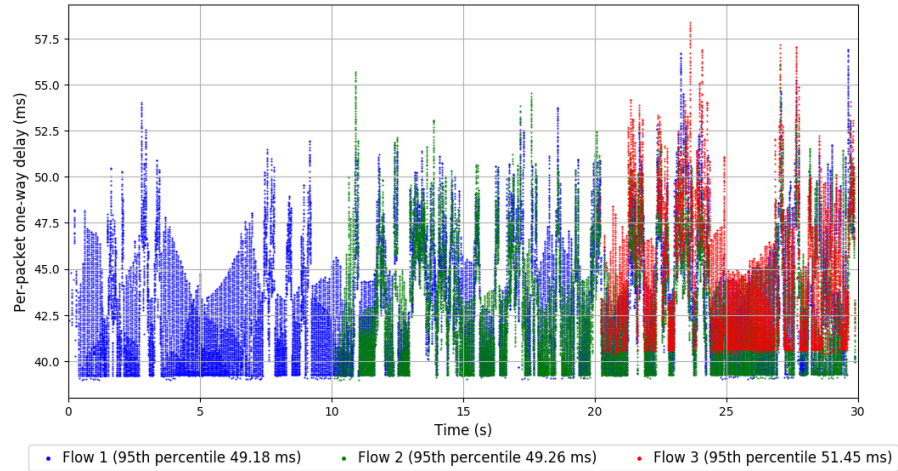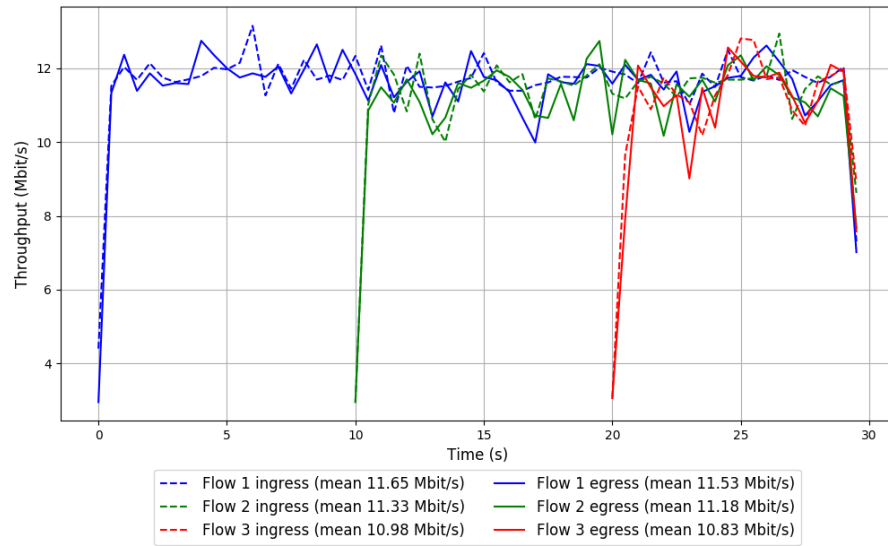
Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2018-03-21 03:26:21
End at: 2018-03-21 03:26:51
Local clock offset: -0.232 ms
Remote clock offset: -6.611 ms


# Below is generated by plot.py at 2018-03-21 08:54:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 43.621 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 43.020 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 43.829 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 44.451 ms
Loss rate: 0.67%
```
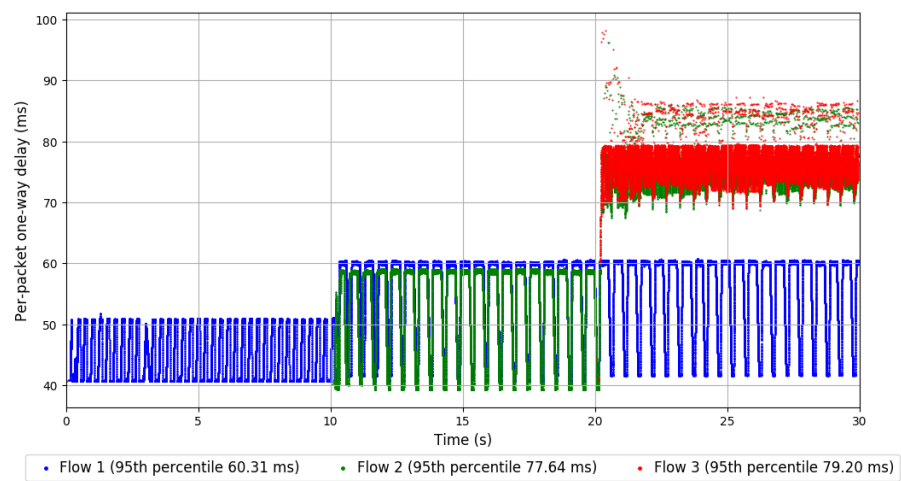
Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2018-03-21 03:52:30
End at: 2018-03-21 03:53:00
Local clock offset: -0.129 ms
Remote clock offset: -6.82 ms


# Below is generated by plot.py at 2018-03-21 08:54:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.52 Mbit/s
95th percentile per-packet one-way delay: 49.634 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 49.183 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 11.18 Mbit/s
95th percentile per-packet one-way delay: 49.264 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 10.83 Mbit/s
95th percentile per-packet one-way delay: 51.447 ms
Loss rate: 2.26%
```
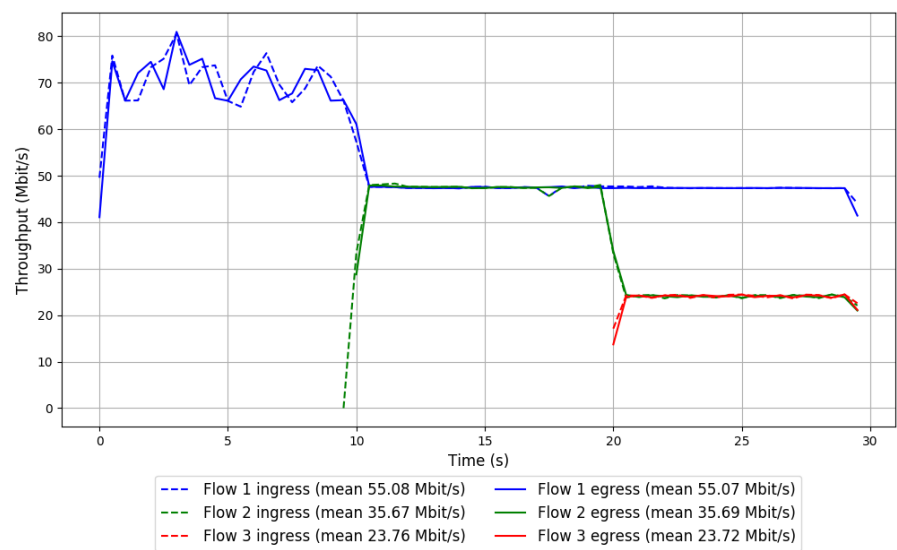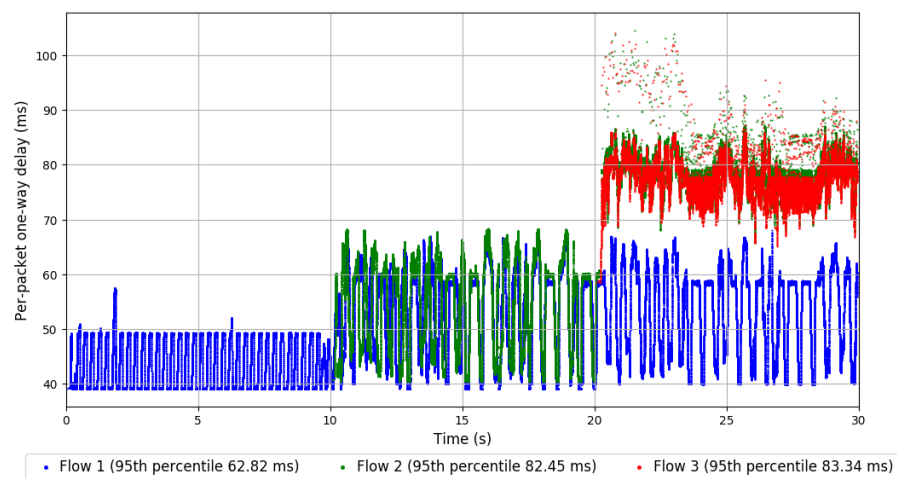
Run 10: Report of Sprout — Data Link

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

Start at: 2018-03-20 23:46:54
End at: 2018-03-20 23:47:24
Local clock offset: -0.438 ms
Remote clock offset: -6.291 ms


# Below is generated by plot.py at 2018-03-21 08:56:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.66 Mbit/s
95th percentile per-packet one-way delay: 77.514 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 60.310 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 77.638 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 79.198 ms
Loss rate: 1.07%
```

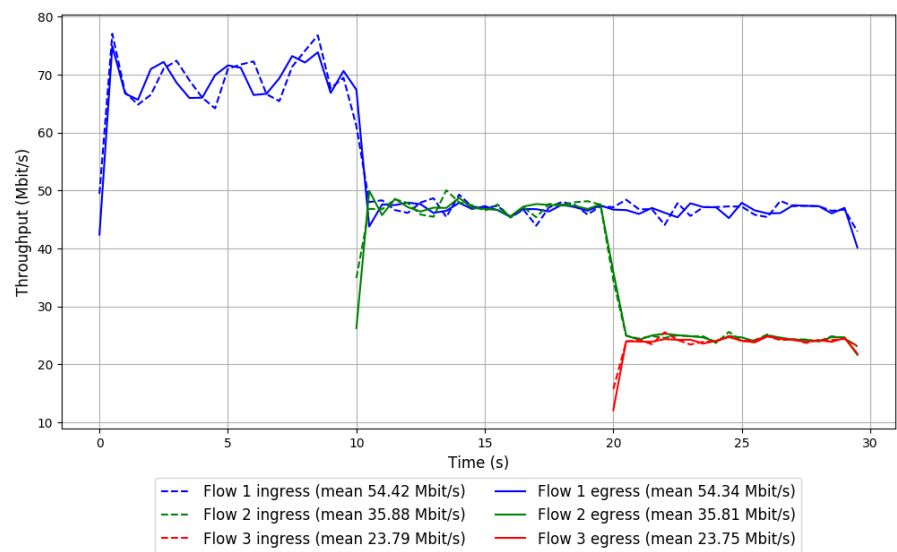Run 1: Report of TaoVA-100x — Data Link

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

Start at: 2018-03-21 00:11:44
End at: 2018-03-21 00:12:14
Local clock offset: -0.079 ms
Remote clock offset: -7.183 ms


# Below is generated by plot.py at 2018-03-21 08:56:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 80.213 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 54.34 Mbit/s
95th percentile per-packet one-way delay: 62.822 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 82.451 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 83.339 ms
Loss rate: 1.21%
```

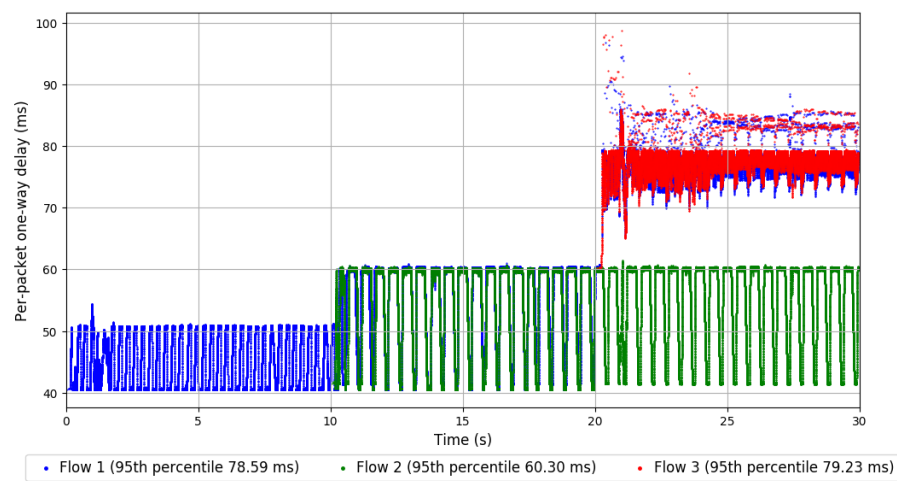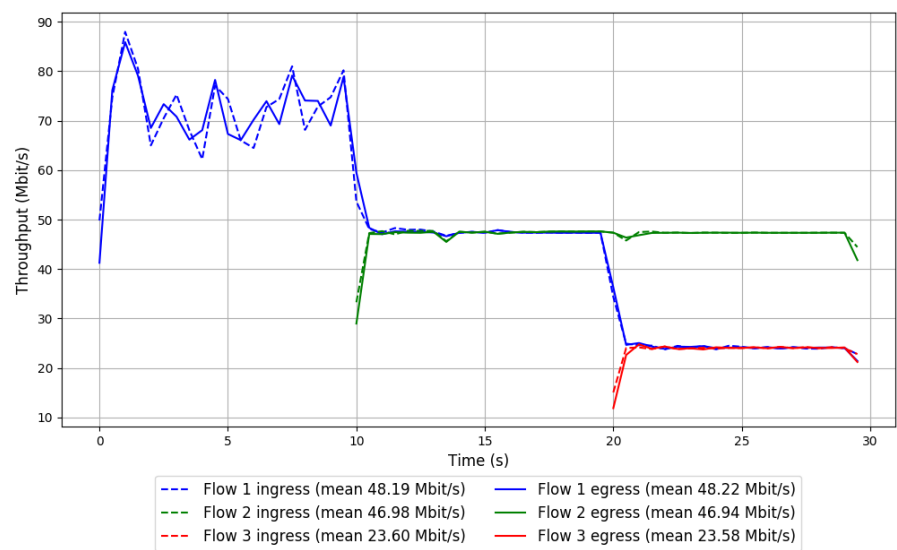Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2018-03-21 00:37:01
End at: 2018-03-21 00:37:31
Local clock offset: 0.306 ms
Remote clock offset: -7.998 ms


# Below is generated by plot.py at 2018-03-21 08:56:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.24 Mbit/s
95th percentile per-packet one-way delay: 78.848 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 48.22 Mbit/s
95th percentile per-packet one-way delay: 78.591 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 46.94 Mbit/s
95th percentile per-packet one-way delay: 60.300 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 23.58 Mbit/s
95th percentile per-packet one-way delay: 79.229 ms
Loss rate: 1.17%
```
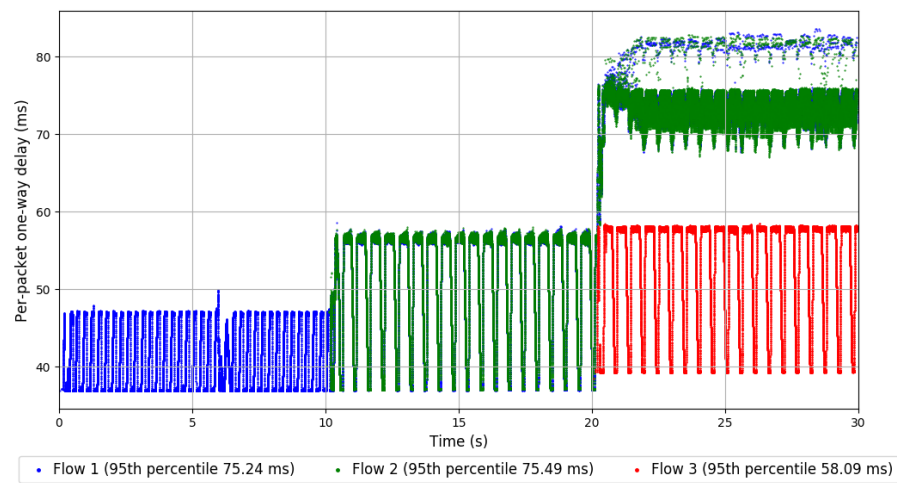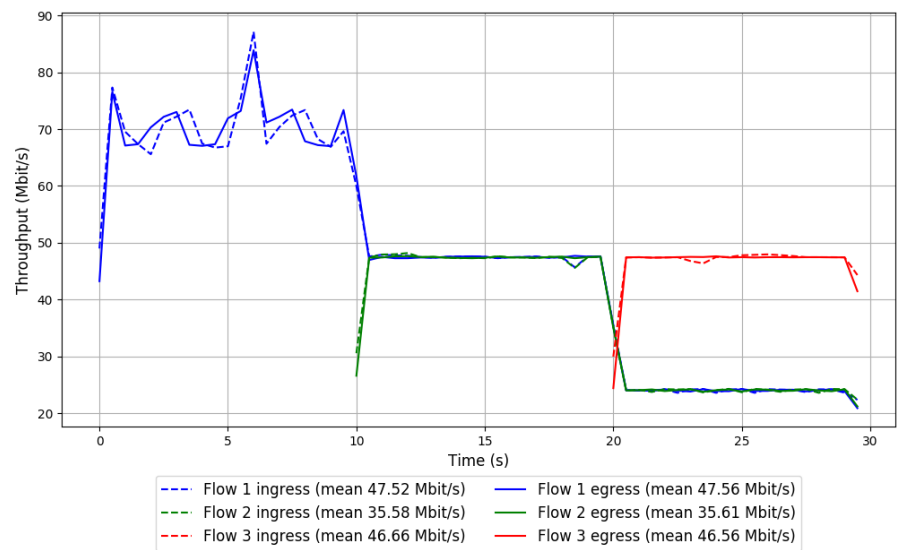
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 48.19 Mbit/s) --- Flow 1 egress (mean 48.22 Mbit/s)
Flow 2 ingress (mean 46.98 Mbit/s) --- Flow 2 egress (mean 46.94 Mbit/s)
Flow 3 ingress (mean 23.60 Mbit/s) --- Flow 3 egress (mean 23.58 Mbit/s)

Flow 1 (95th percentile 78.59 ms)   ·   Flow 2 (95th percentile 60.30 ms)   ·   Flow 3 (95th percentile 79.23 ms)

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

Start at: 2018-03-21 01:01:52
End at: 2018-03-21 01:02:22
Local clock offset: 0.565 ms
Remote clock offset: -3.68 ms


# Below is generated by plot.py at 2018-03-21 08:56:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.65 Mbit/s
95th percentile per-packet one-way delay: 75.208 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 47.56 Mbit/s
95th percentile per-packet one-way delay: 75.236 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 35.61 Mbit/s
95th percentile per-packet one-way delay: 75.493 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 58.090 ms
Loss rate: 0.90%
```
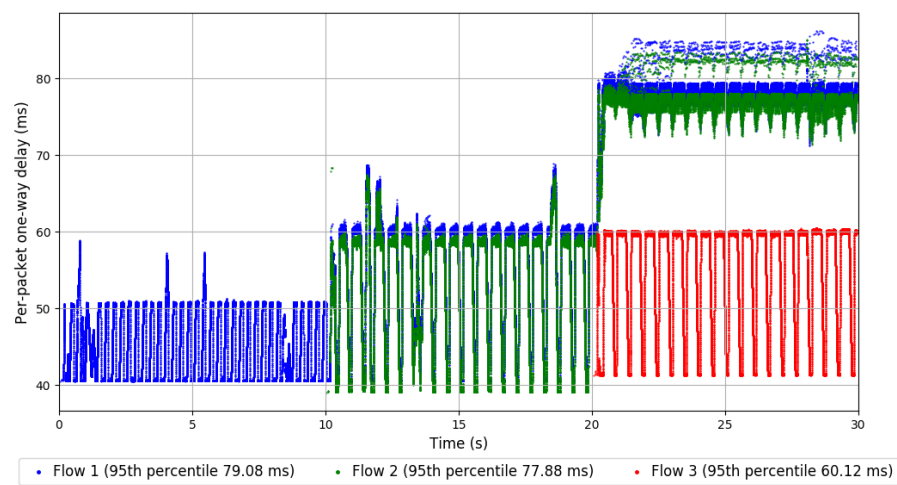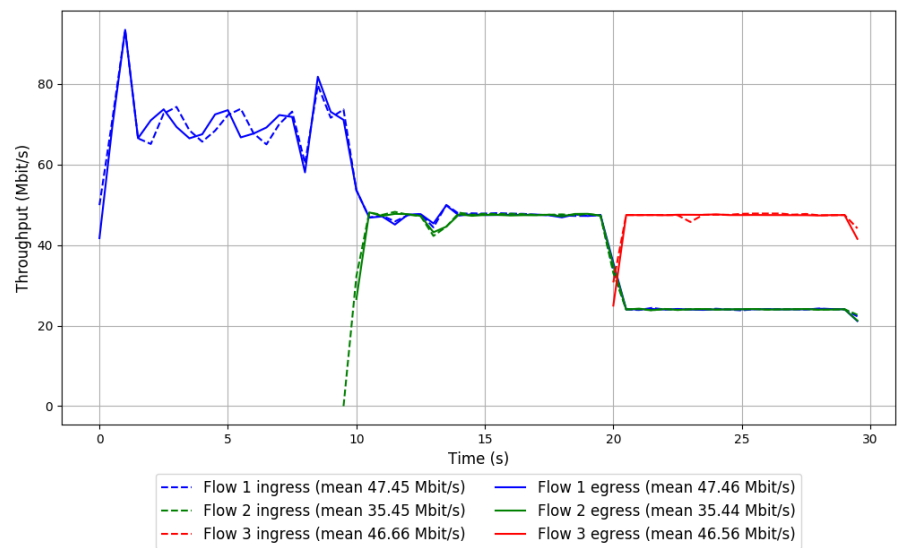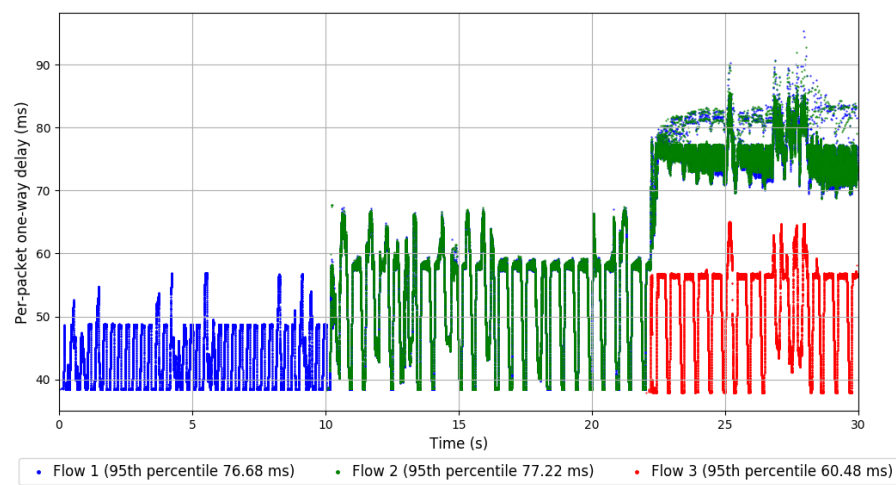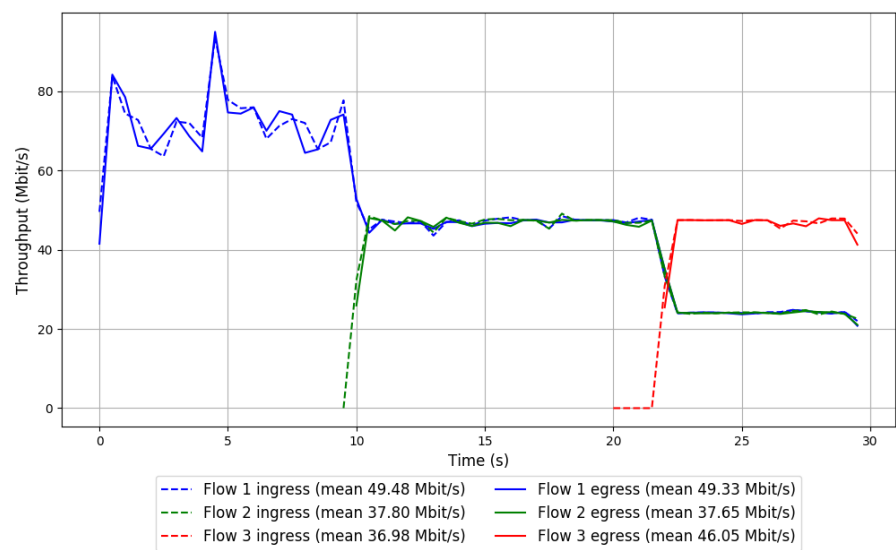
Run 4: Report of TaoVA-100x — Data Link

- - - - Flow 1 ingress (mean 47.52 Mbit/s) ——— Flow 1 egress (mean 47.56 Mbit/s)
- - - - Flow 2 ingress (mean 35.58 Mbit/s) ——— Flow 2 egress (mean 35.61 Mbit/s)
- - - - Flow 3 ingress (mean 46.66 Mbit/s) ——— Flow 3 egress (mean 46.56 Mbit/s)

• Flow 1 (95th percentile 75.24 ms)   • Flow 2 (95th percentile 75.49 ms)   • Flow 3 (95th percentile 58.09 ms)

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

Start at: 2018-03-21 01:26:43
End at: 2018-03-21 01:27:13
Local clock offset: -0.456 ms
Remote clock offset: -4.895 ms


# Below is generated by plot.py at 2018-03-21 08:56:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 78.366 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 47.46 Mbit/s
95th percentile per-packet one-way delay: 79.083 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 35.44 Mbit/s
95th percentile per-packet one-way delay: 77.876 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 60.125 ms
Loss rate: 0.90%
```
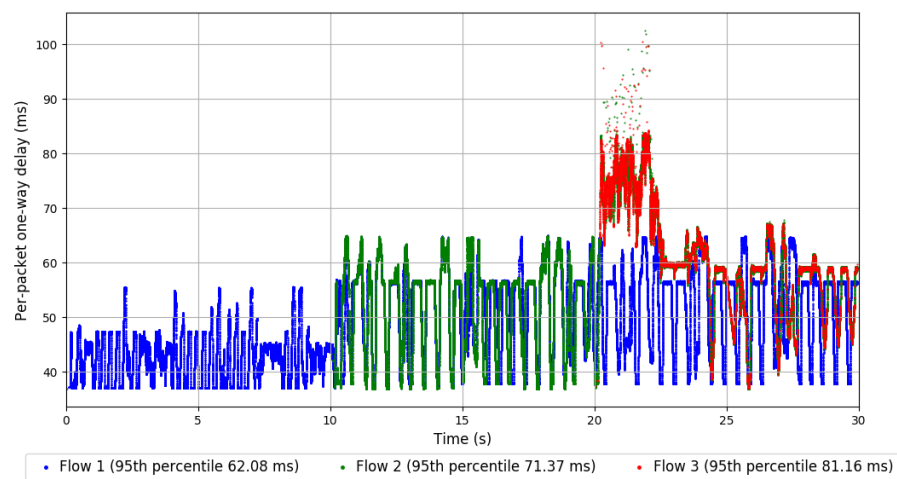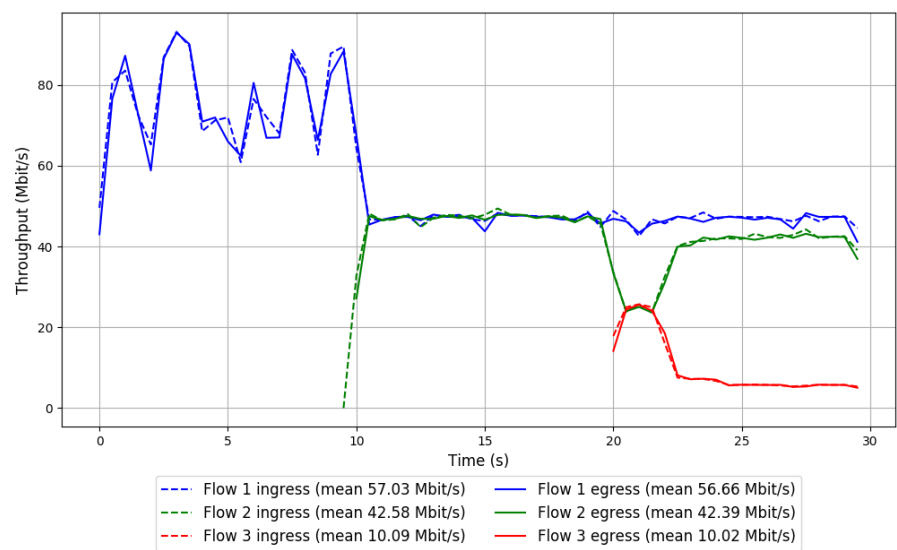
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 47.45 Mbit/s) — Flow 1 egress (mean 47.46 Mbit/s)
Flow 2 ingress (mean 35.45 Mbit/s) — Flow 2 egress (mean 35.44 Mbit/s)
Flow 3 ingress (mean 46.66 Mbit/s) — Flow 3 egress (mean 46.56 Mbit/s)

Flow 1 (95th percentile 79.08 ms)   Flow 2 (95th percentile 77.88 ms)   Flow 3 (95th percentile 60.12 ms)

```
Run 6: Statistics of TaoVA-100x

Start at: 2018-03-21 01:51:38
End at: 2018-03-21 01:52:08
Local clock offset: -0.504 ms
Remote clock offset: -3.031 ms


# Below is generated by plot.py at 2018-03-21 08:56:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 76.871 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 76.679 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 37.65 Mbit/s
95th percentile per-packet one-way delay: 77.218 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 46.05 Mbit/s
95th percentile per-packet one-way delay: 60.482 ms
Loss rate: 1.34%
```

Run 6: Report of TaoVA-100x — Data Link

```
Run 7: Statistics of TaoVA-100x

Start at: 2018-03-21 02:17:05
End at: 2018-03-21 02:17:35
Local clock offset: -0.455 ms
Remote clock offset: -7.346 ms


# Below is generated by plot.py at 2018-03-21 08:56:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 64.613 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 56.66 Mbit/s
95th percentile per-packet one-way delay: 62.078 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 42.39 Mbit/s
95th percentile per-packet one-way delay: 71.372 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 10.02 Mbit/s
95th percentile per-packet one-way delay: 81.158 ms
Loss rate: 1.33%
```
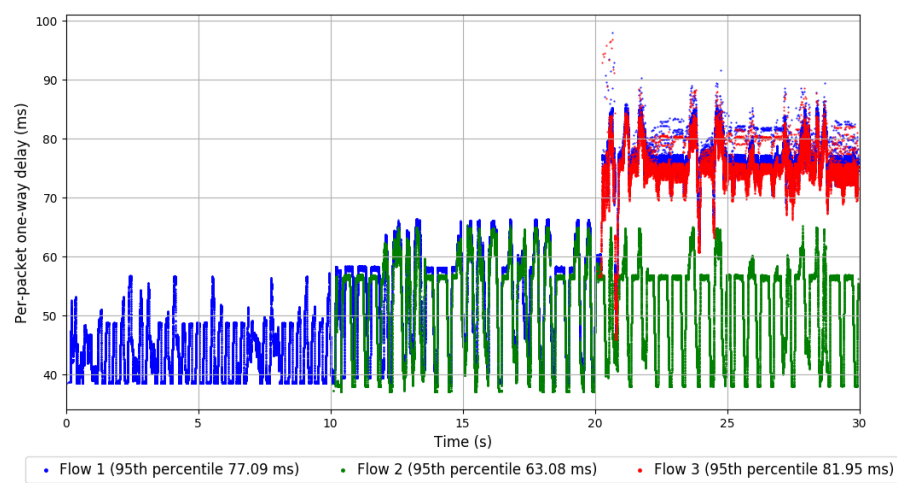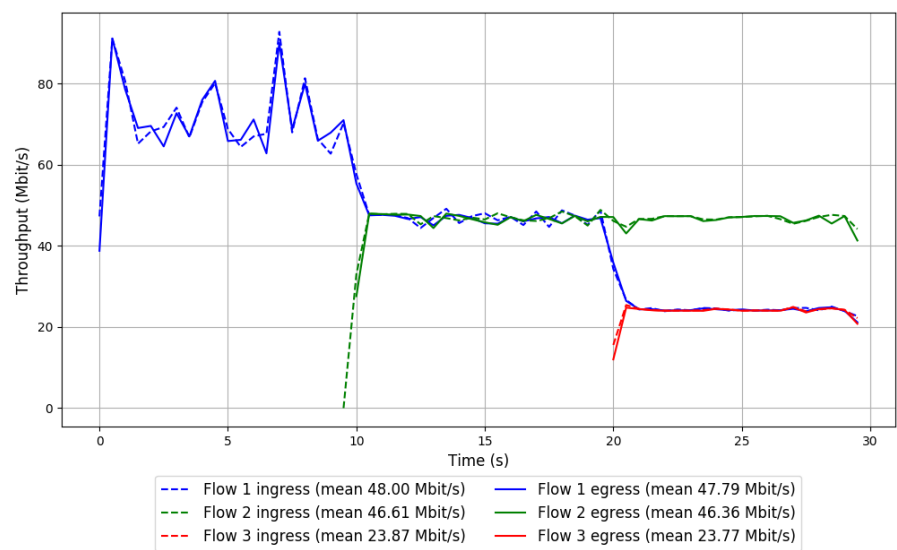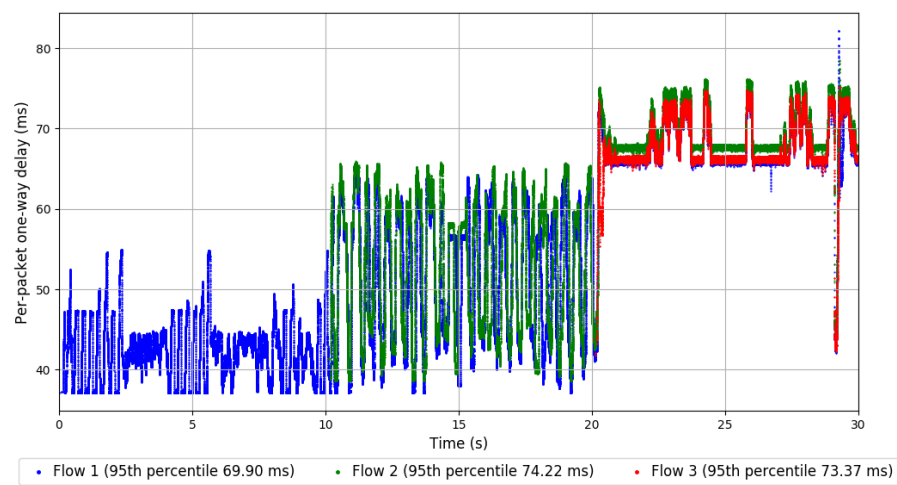
Run 7: Report of TaoVA-100x — Data Link

177

```
Run 8: Statistics of TaoVA-100x

Start at: 2018-03-21 02:42:51
End at: 2018-03-21 02:43:21
Local clock offset: -0.258 ms
Remote clock offset: -7.35 ms

# Below is generated by plot.py at 2018-03-21 08:56:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 77.043 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 77.095 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 46.36 Mbit/s
95th percentile per-packet one-way delay: 63.076 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 23.77 Mbit/s
95th percentile per-packet one-way delay: 81.954 ms
Loss rate: 1.31%
```

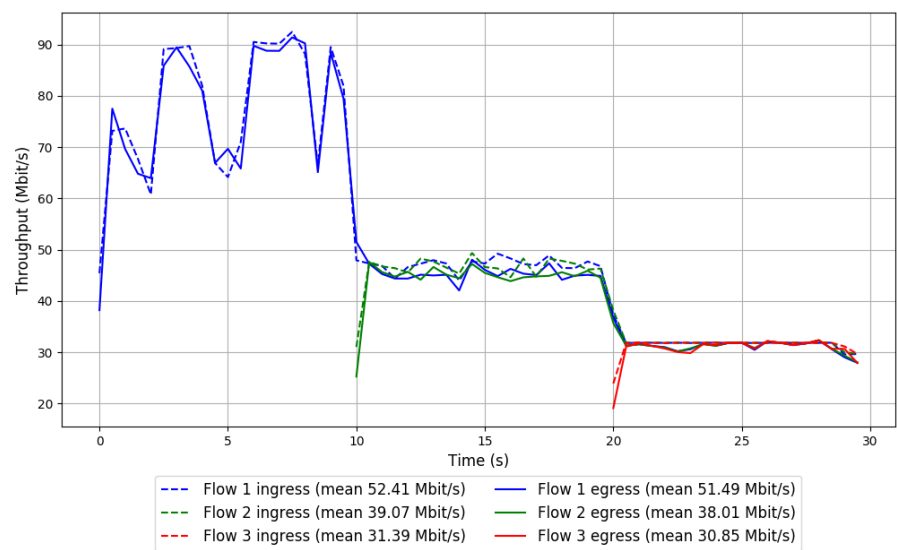Run 8: Report of TaoVA-100x — Data Link

```
Run 9: Statistics of TaoVA-100x

Start at: 2018-03-21 03:08:36
End at: 2018-03-21 03:09:06
Local clock offset: -0.285 ms
Remote clock offset: -7.152 ms


# Below is generated by plot.py at 2018-03-21 08:58:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.97 Mbit/s
95th percentile per-packet one-way delay: 72.728 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 51.49 Mbit/s
95th percentile per-packet one-way delay: 69.897 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 38.01 Mbit/s
95th percentile per-packet one-way delay: 74.220 ms
Loss rate: 3.08%
-- Flow 3:
Average throughput: 30.85 Mbit/s
95th percentile per-packet one-way delay: 73.366 ms
Loss rate: 2.57%
```

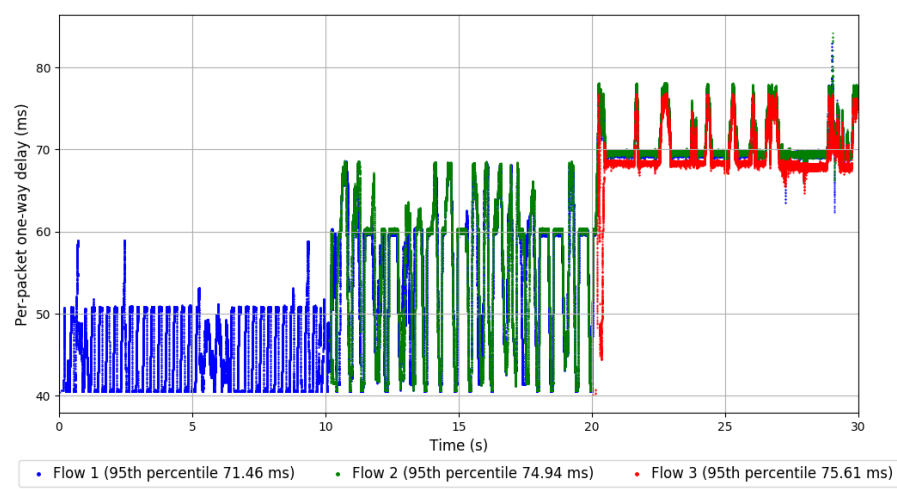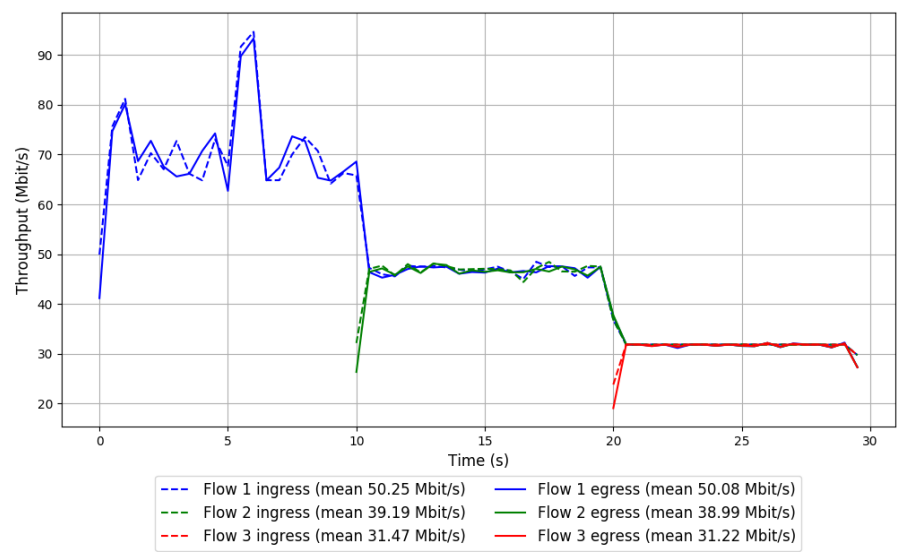Run 9: Report of TaoVA-100x — Data Link

```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-21 03:34:33
End at: 2018-03-21 03:35:03
Local clock offset: -0.188 ms
Remote clock offset: -9.501 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.35 Mbit/s
95th percentile per-packet one-way delay: 73.908 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 71.460 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 38.99 Mbit/s
95th percentile per-packet one-way delay: 74.935 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 75.610 ms
Loss rate: 1.44%
```

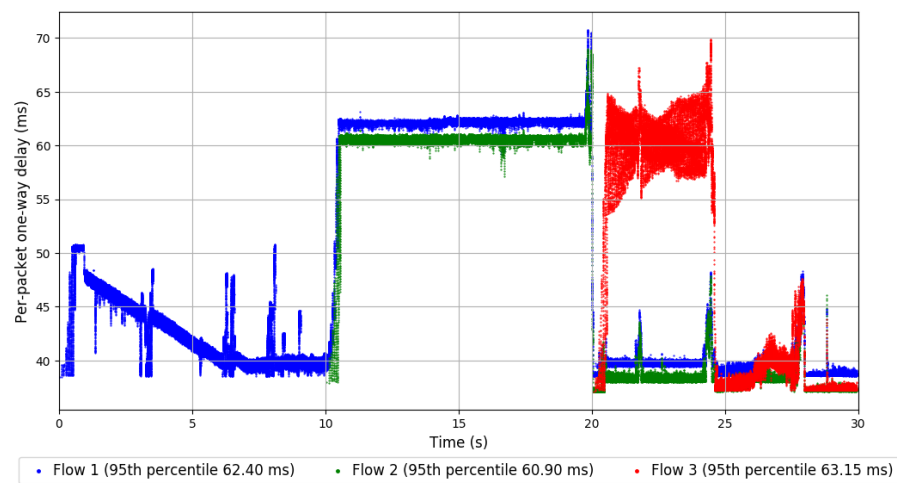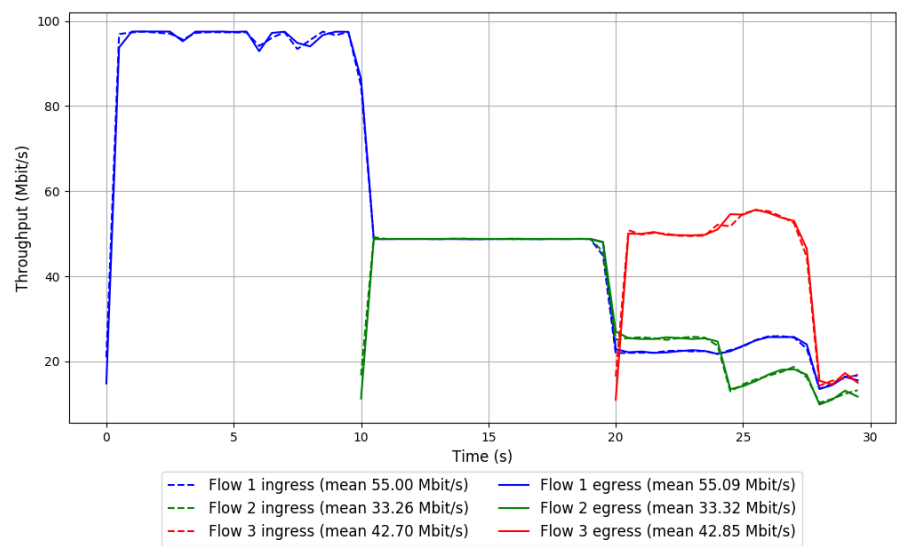Run 10: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2018-03-20 23:51:06
End at: 2018-03-20 23:51:36
Local clock offset: -0.478 ms
Remote clock offset: -3.934 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 62.390 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 55.09 Mbit/s
95th percentile per-packet one-way delay: 62.401 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 60.902 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 42.85 Mbit/s
95th percentile per-packet one-way delay: 63.152 ms
Loss rate: 0.32%
```

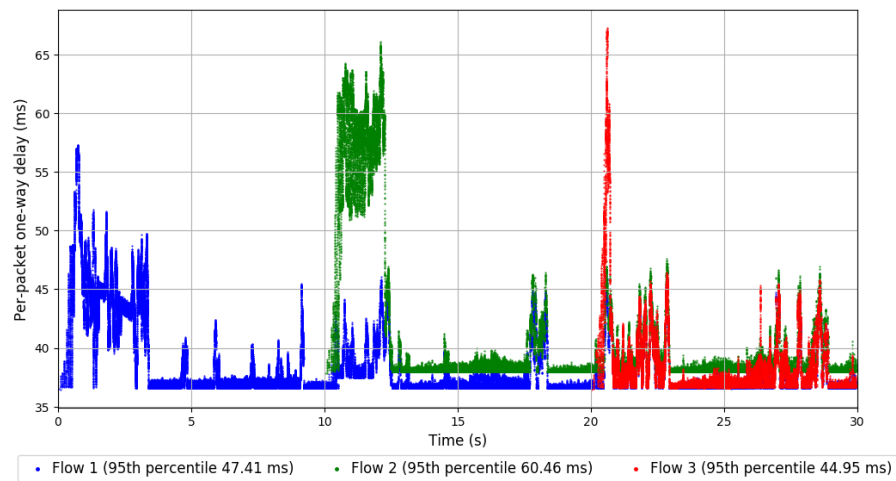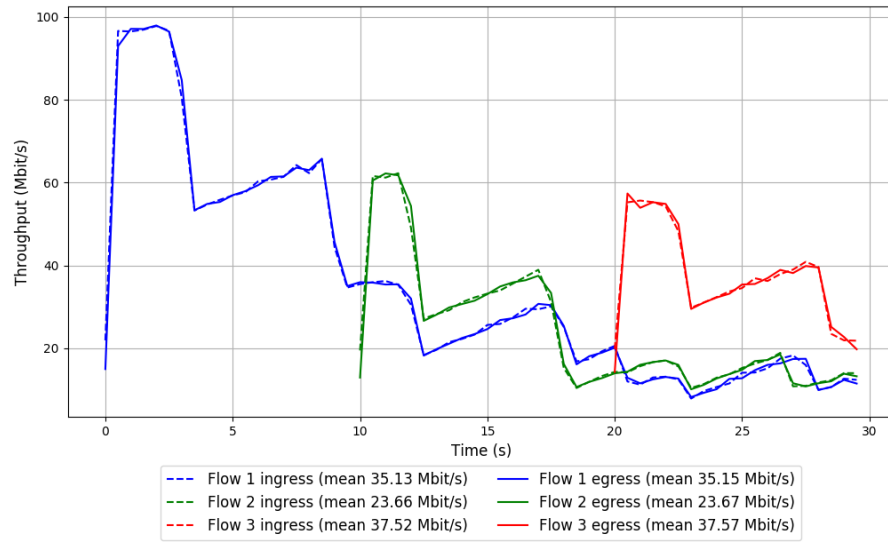Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2018-03-21 00:15:58
End at: 2018-03-21 00:16:28
Local clock offset: -0.007 ms
Remote clock offset: -5.102 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.33 Mbit/s
95th percentile per-packet one-way delay: 56.142 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 47.410 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 23.67 Mbit/s
95th percentile per-packet one-way delay: 60.460 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 37.57 Mbit/s
95th percentile per-packet one-way delay: 44.947 ms
Loss rate: 0.56%
```

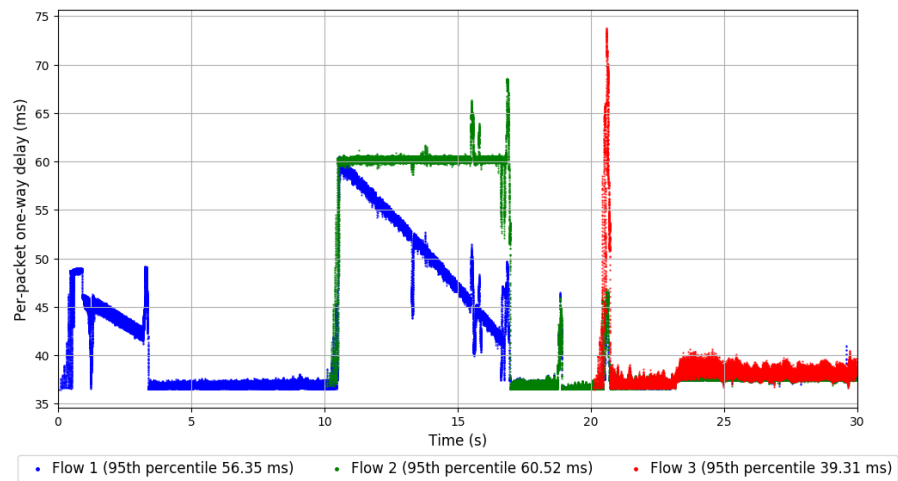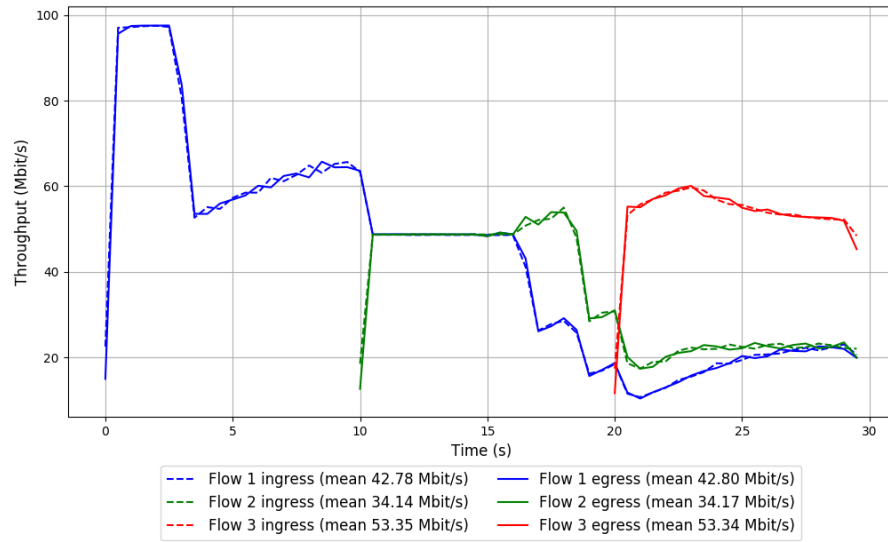Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-03-21 00:41:15
End at: 2018-03-21 00:41:45
Local clock offset: 0.394 ms
Remote clock offset: -5.826 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.16 Mbit/s
95th percentile per-packet one-way delay: 60.347 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 42.80 Mbit/s
95th percentile per-packet one-way delay: 56.353 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 60.515 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 53.34 Mbit/s
95th percentile per-packet one-way delay: 39.310 ms
Loss rate: 0.69%
```

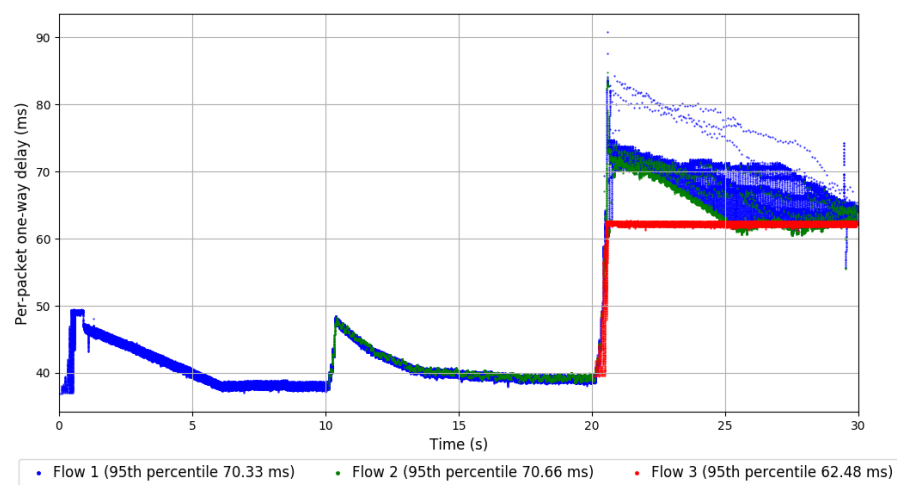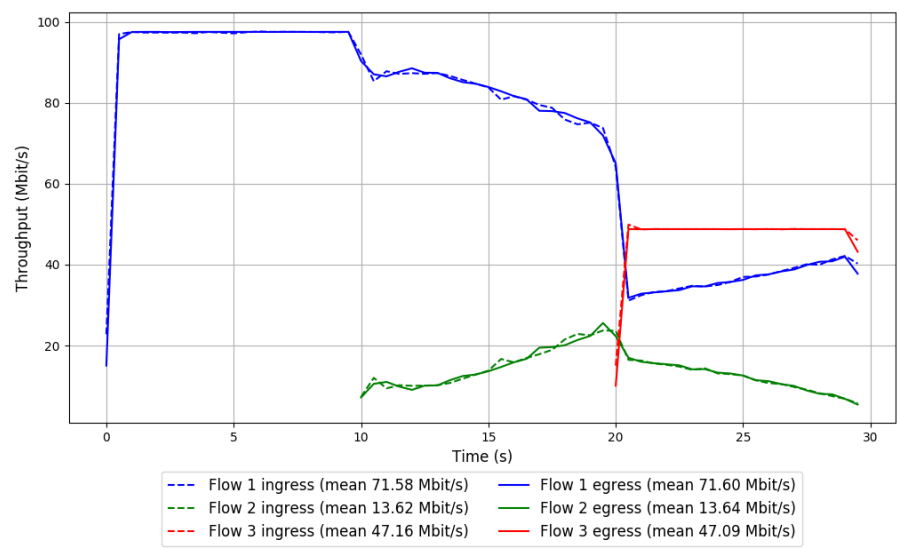Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2018-03-21 01:06:05
End at: 2018-03-21 01:06:35
Local clock offset: 0.461 ms
Remote clock offset: -3.132 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 69.992 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 71.60 Mbit/s
95th percentile per-packet one-way delay: 70.329 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 13.64 Mbit/s
95th percentile per-packet one-way delay: 70.659 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 47.09 Mbit/s
95th percentile per-packet one-way delay: 62.480 ms
Loss rate: 0.95%
```

Run 4: Report of TCP Vegas — Data Link

- - - Flow 1 ingress (mean 71.58 Mbit/s)   —— Flow 1 egress (mean 71.60 Mbit/s)
- - - Flow 2 ingress (mean 13.62 Mbit/s)   —— Flow 2 egress (mean 13.64 Mbit/s)
- - - Flow 3 ingress (mean 47.16 Mbit/s)   —— Flow 3 egress (mean 47.09 Mbit/s)

- Flow 1 (95th percentile 70.33 ms)   • Flow 2 (95th percentile 70.66 ms)   • Flow 3 (95th percentile 62.48 ms)
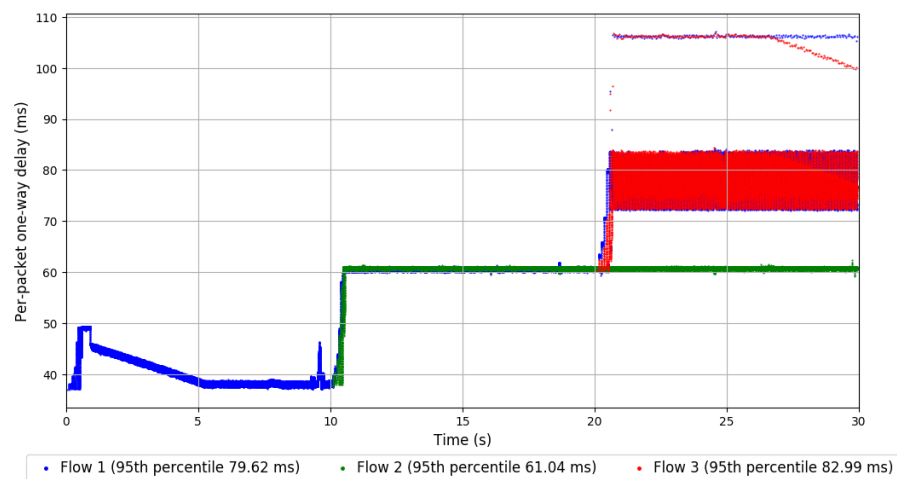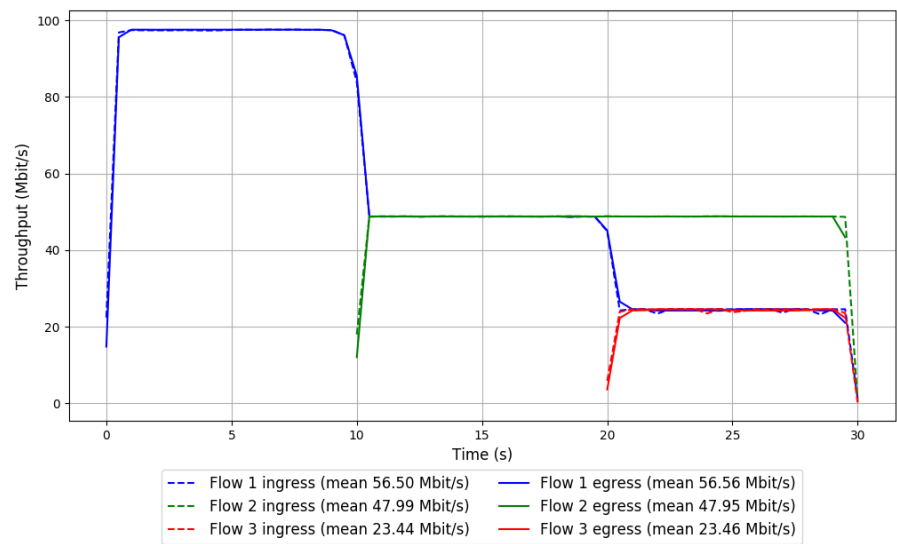
```
Run 5: Statistics of TCP Vegas

Start at: 2018-03-21 01:30:57
End at: 2018-03-21 01:31:27
Local clock offset: -0.429 ms
Remote clock offset: -2.615 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 80.057 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 56.56 Mbit/s
95th percentile per-packet one-way delay: 79.619 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 47.95 Mbit/s
95th percentile per-packet one-way delay: 61.037 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 23.46 Mbit/s
95th percentile per-packet one-way delay: 82.994 ms
Loss rate: 1.27%
```
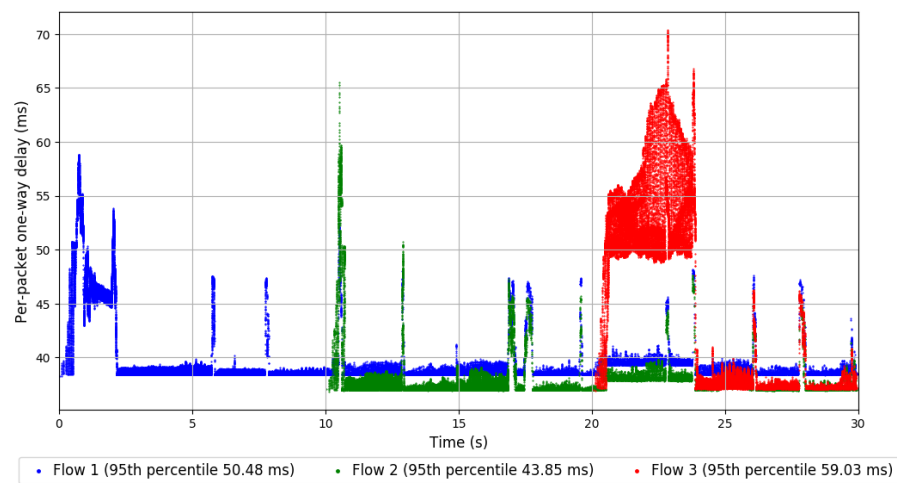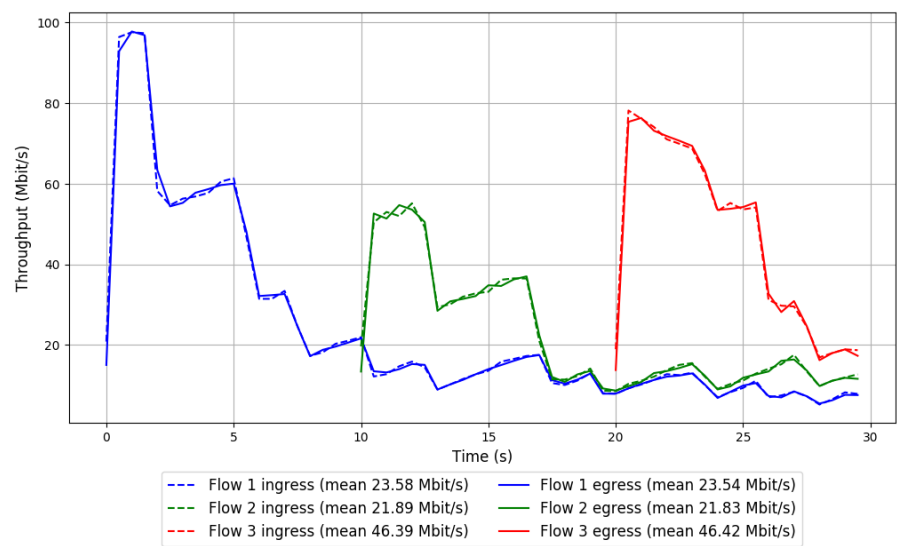
Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 56.50 Mbit/s) Flow 1 egress (mean 56.56 Mbit/s)
Flow 2 ingress (mean 47.99 Mbit/s) Flow 2 egress (mean 47.95 Mbit/s)
Flow 3 ingress (mean 23.44 Mbit/s) Flow 3 egress (mean 23.46 Mbit/s)

Flow 1 (95th percentile 79.62 ms)   Flow 2 (95th percentile 61.04 ms)   Flow 3 (95th percentile 82.99 ms)

193

```
Run 6: Statistics of TCP Vegas

Start at: 2018-03-21 01:55:54
End at: 2018-03-21 01:56:24
Local clock offset: -0.624 ms
Remote clock offset: -3.225 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.40 Mbit/s
95th percentile per-packet one-way delay: 54.541 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 23.54 Mbit/s
95th percentile per-packet one-way delay: 50.477 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 21.83 Mbit/s
95th percentile per-packet one-way delay: 43.854 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 59.033 ms
Loss rate: 0.62%
```

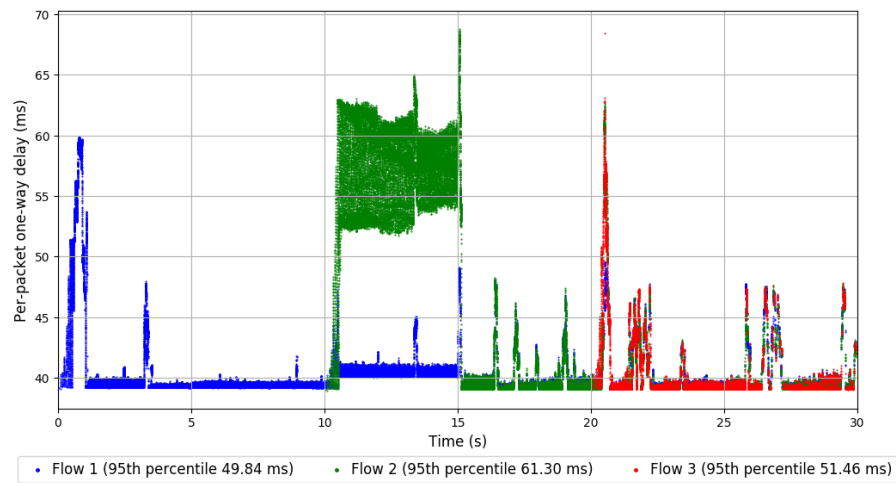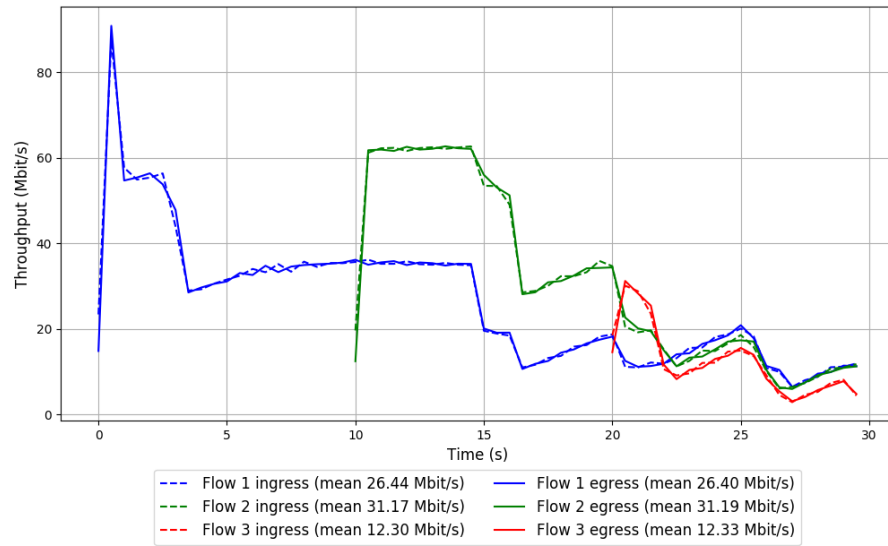Run 6: Report of TCP Vegas — Data Link

```
Run 7: Statistics of TCP Vegas

Start at: 2018-03-21 02:21:39
End at: 2018-03-21 02:22:09
Local clock offset: -0.379 ms
Remote clock offset: -10.053 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.22 Mbit/s
95th percentile per-packet one-way delay: 59.908 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 26.40 Mbit/s
95th percentile per-packet one-way delay: 49.840 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 61.300 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 51.460 ms
Loss rate: 0.46%
```

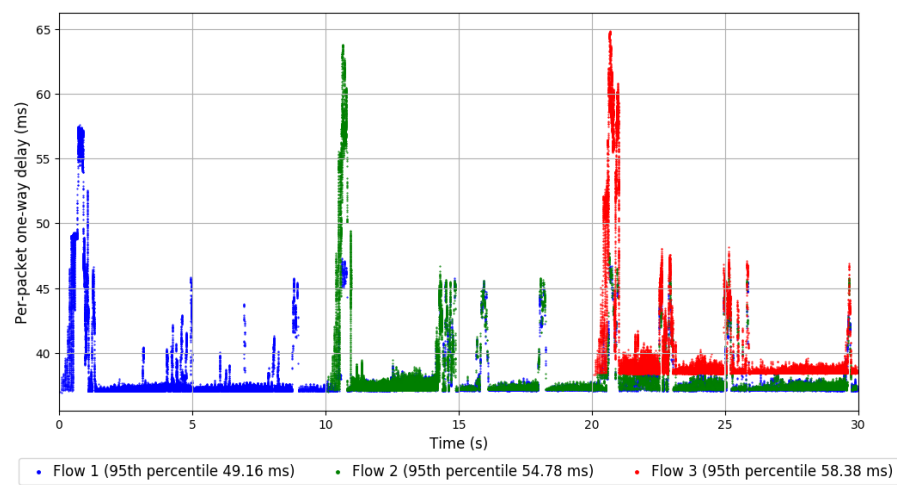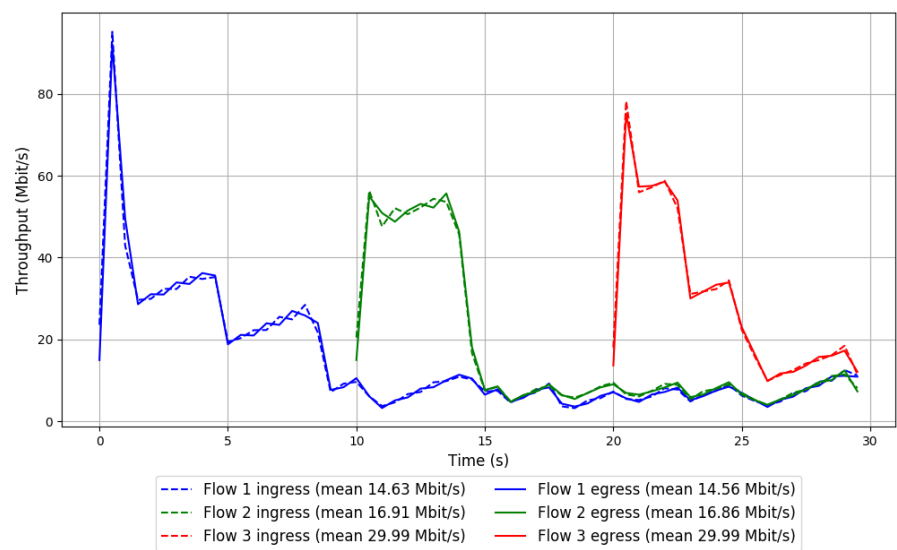Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2018-03-21 02:47:07
End at: 2018-03-21 02:47:37
Local clock offset: -0.261 ms
Remote clock offset: -6.973 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.68 Mbit/s
95th percentile per-packet one-way delay: 55.690 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 14.56 Mbit/s
95th percentile per-packet one-way delay: 49.161 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 16.86 Mbit/s
95th percentile per-packet one-way delay: 54.785 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 29.99 Mbit/s
95th percentile per-packet one-way delay: 58.381 ms
Loss rate: 0.67%
```

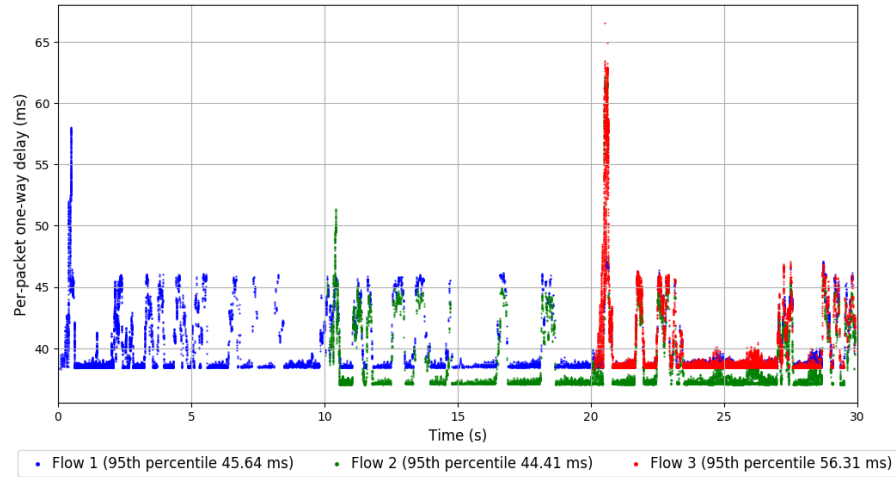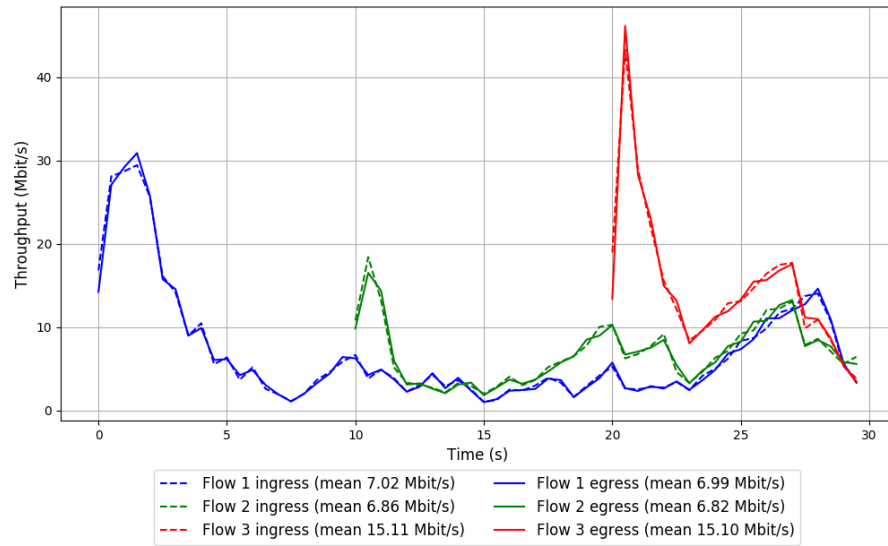Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2018-03-21 03:13:53
End at: 2018-03-21 03:14:23
Local clock offset: -0.409 ms
Remote clock offset: -6.991 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 45.830 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 45.641 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 44.409 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 15.10 Mbit/s
95th percentile per-packet one-way delay: 56.309 ms
Loss rate: 0.74%
```
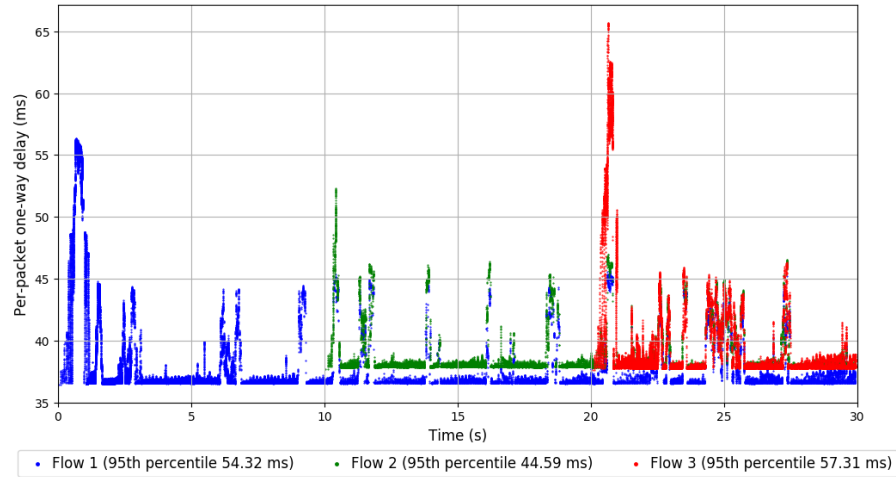
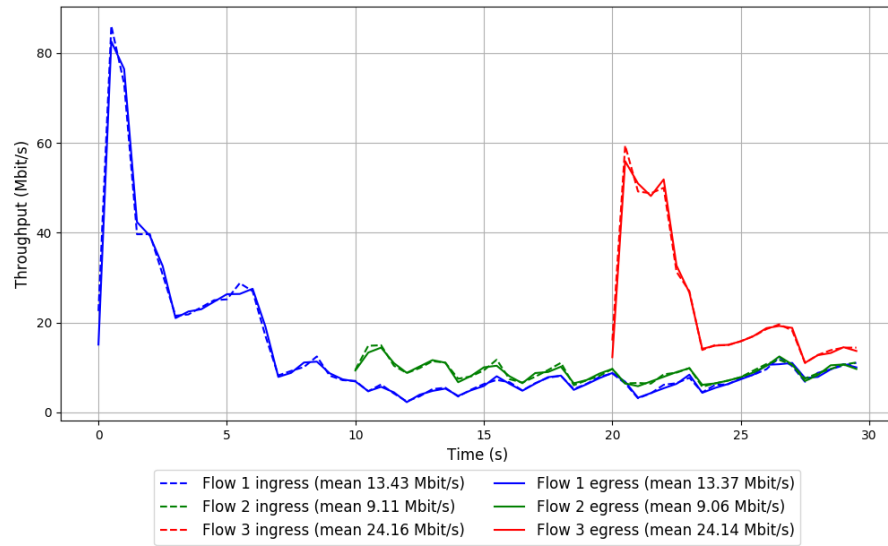Run 9: Report of TCP Vegas — Data Link

```
Run 10: Statistics of TCP Vegas

Start at: 2018-03-21 03:39:16
End at: 2018-03-21 03:39:46
Local clock offset: -0.283 ms
Remote clock offset: -6.881 ms


# Below is generated by plot.py at 2018-03-21 08:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 53.304 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 54.323 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 44.585 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 57.310 ms
Loss rate: 0.78%
```

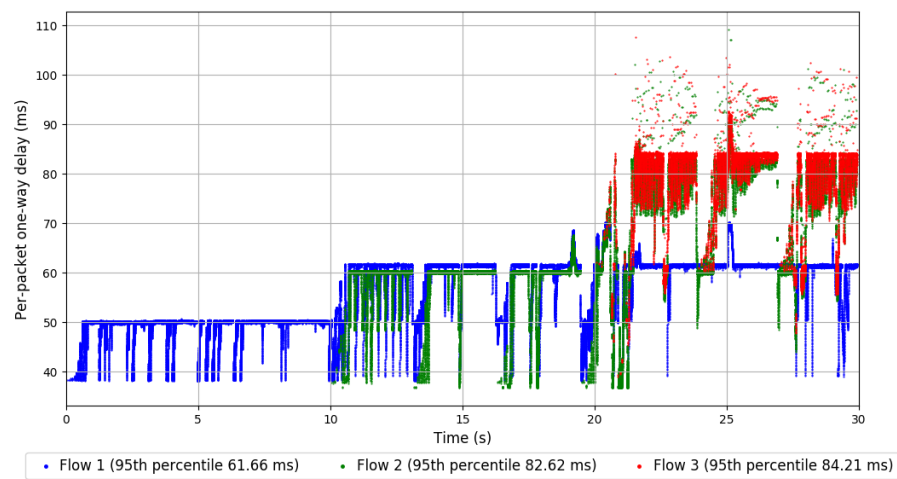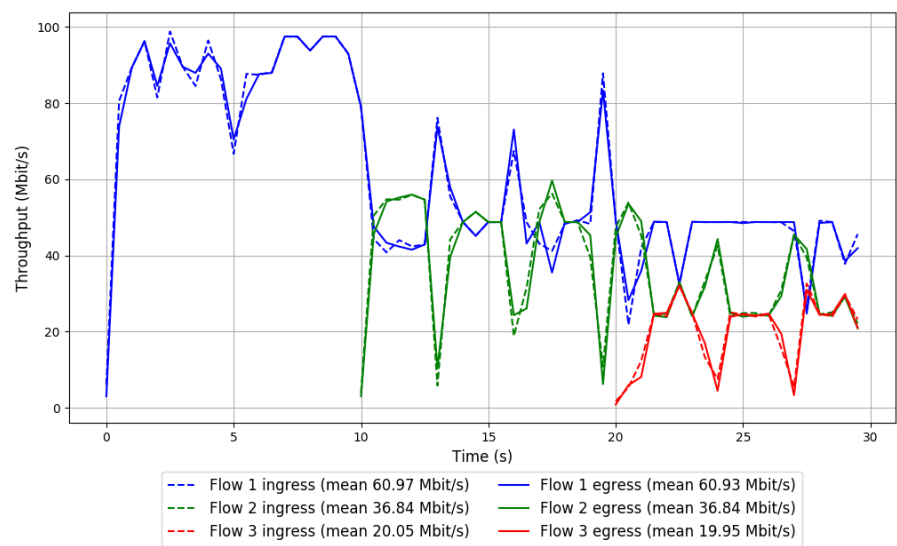Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2018-03-20 23:55:13
End at: 2018-03-20 23:55:43
Local clock offset: -0.509 ms
Remote clock offset: -3.452 ms


# Below is generated by plot.py at 2018-03-21 08:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 82.506 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 60.93 Mbit/s
95th percentile per-packet one-way delay: 61.656 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 36.84 Mbit/s
95th percentile per-packet one-way delay: 82.623 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 84.212 ms
Loss rate: 1.40%
```

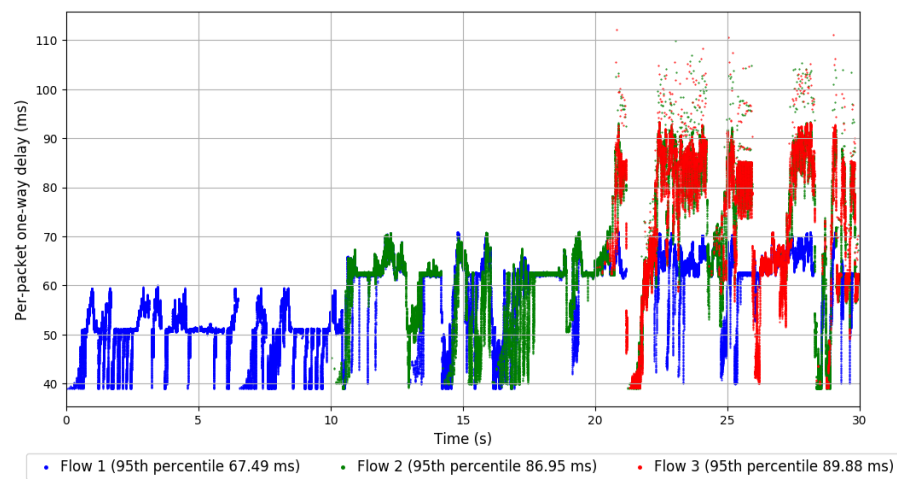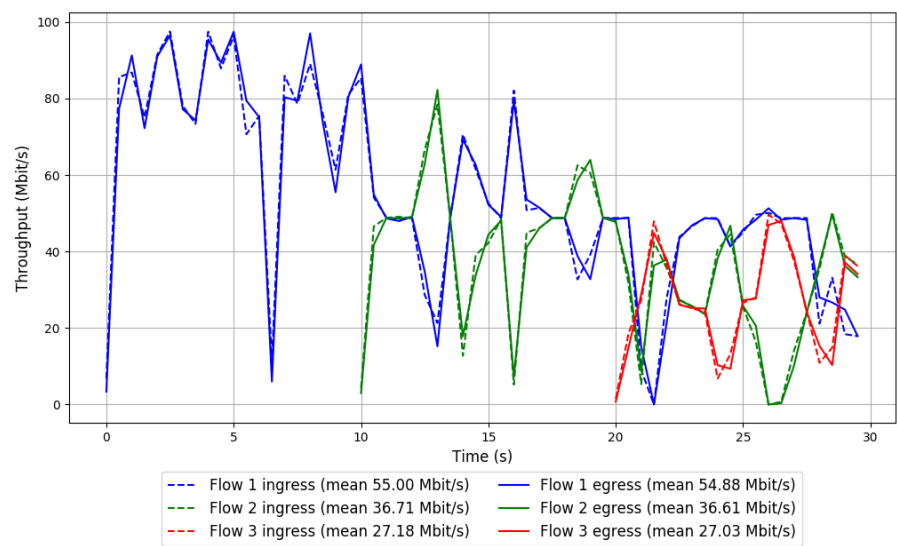## Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2018-03-21 00:20:12
End at: 2018-03-21 00:20:42
Local clock offset: -0.093 ms
Remote clock offset: -7.296 ms


# Below is generated by plot.py at 2018-03-21 08:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 83.917 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 54.88 Mbit/s
95th percentile per-packet one-way delay: 67.493 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 86.951 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 27.03 Mbit/s
95th percentile per-packet one-way delay: 89.877 ms
Loss rate: 1.62%
```

Run 2: Report of Verus — Data Link

Flow 1 ingress (mean 55.00 Mbit/s)   Flow 1 egress (mean 54.88 Mbit/s)
Flow 2 ingress (mean 36.71 Mbit/s)   Flow 2 egress (mean 36.61 Mbit/s)
Flow 3 ingress (mean 27.18 Mbit/s)   Flow 3 egress (mean 27.03 Mbit/s)

Flow 1 (95th percentile 67.49 ms)   Flow 2 (95th percentile 86.95 ms)   Flow 3 (95th percentile 89.88 ms)
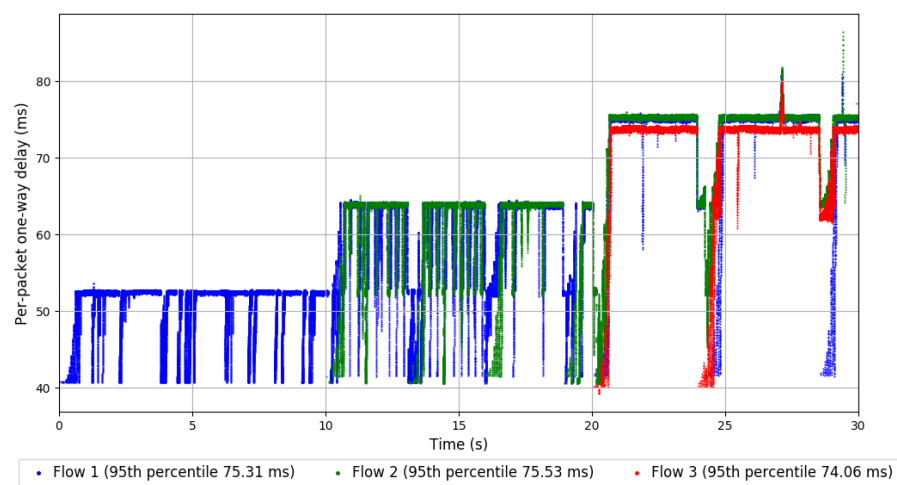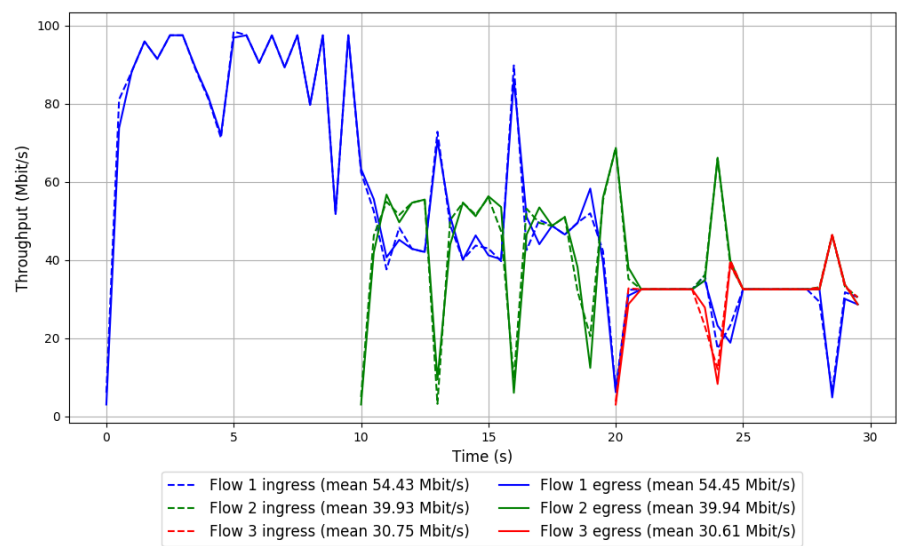
```
Run 3: Statistics of Verus

Start at: 2018-03-21 00:45:21
End at: 2018-03-21 00:45:51
Local clock offset: 0.47 ms
Remote clock offset: -8.735 ms


# Below is generated by plot.py at 2018-03-21 08:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 75.417 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 54.45 Mbit/s
95th percentile per-packet one-way delay: 75.306 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 75.527 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 30.61 Mbit/s
95th percentile per-packet one-way delay: 74.056 ms
Loss rate: 1.08%
```
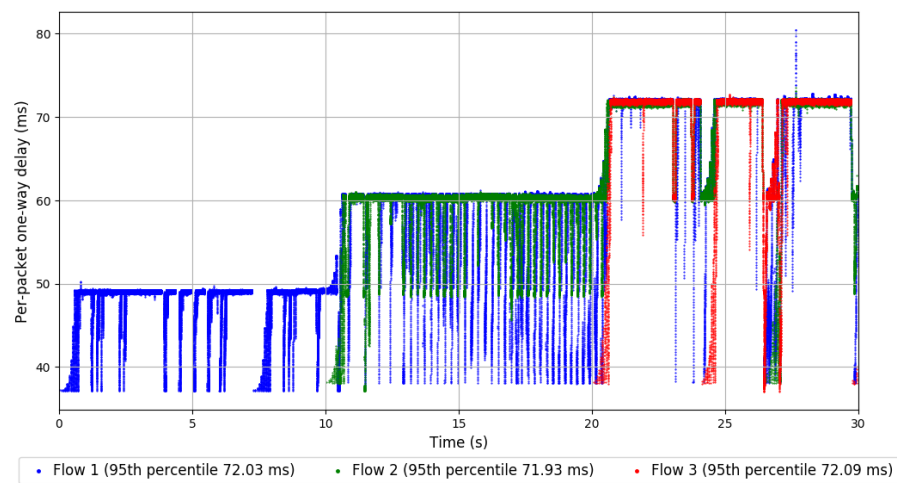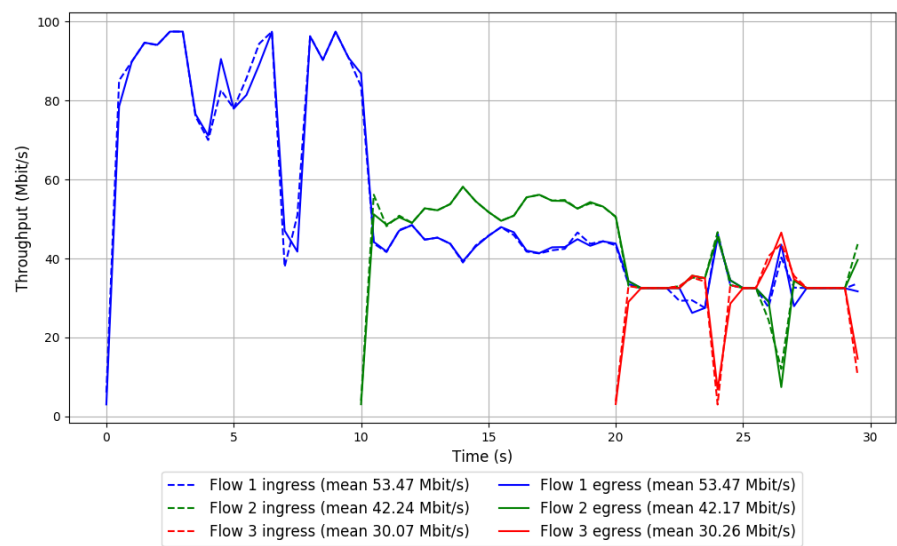
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-03-21 01:10:13
End at: 2018-03-21 01:10:43
Local clock offset: 0.163 ms
Remote clock offset: -2.932 ms


# Below is generated by plot.py at 2018-03-21 08:59:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.51 Mbit/s
95th percentile per-packet one-way delay: 72.029 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 53.47 Mbit/s
95th percentile per-packet one-way delay: 72.027 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 42.17 Mbit/s
95th percentile per-packet one-way delay: 71.929 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 30.26 Mbit/s
95th percentile per-packet one-way delay: 72.087 ms
Loss rate: 0.06%
```
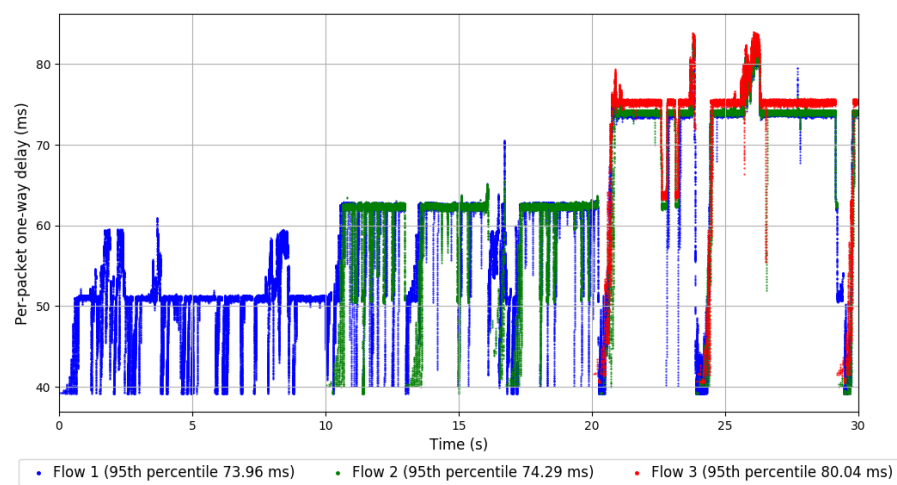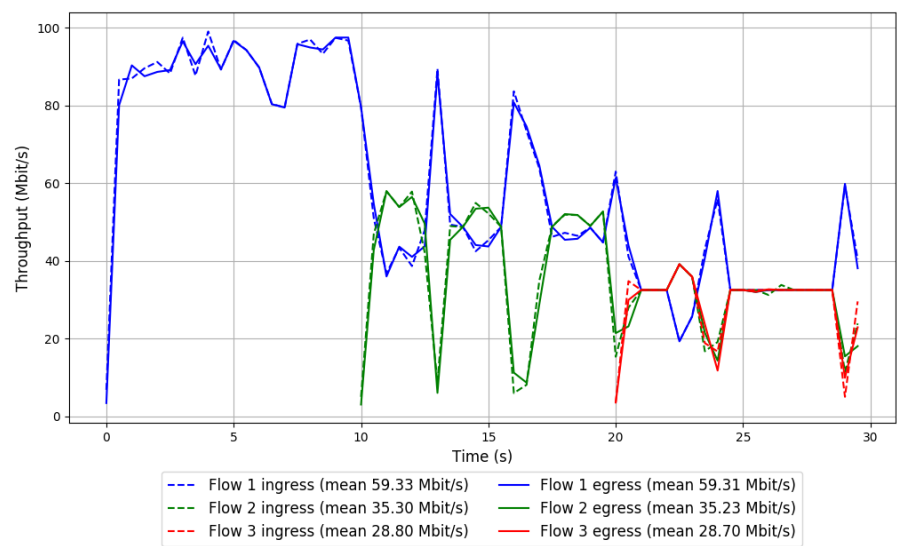
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2018-03-21 01:35:05
End at: 2018-03-21 01:35:35
Local clock offset: -0.55 ms
Remote clock offset: -4.697 ms


# Below is generated by plot.py at 2018-03-21 08:59:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.21 Mbit/s
95th percentile per-packet one-way delay: 75.383 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 73.956 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 35.23 Mbit/s
95th percentile per-packet one-way delay: 74.291 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 28.70 Mbit/s
95th percentile per-packet one-way delay: 80.041 ms
Loss rate: 1.22%
```
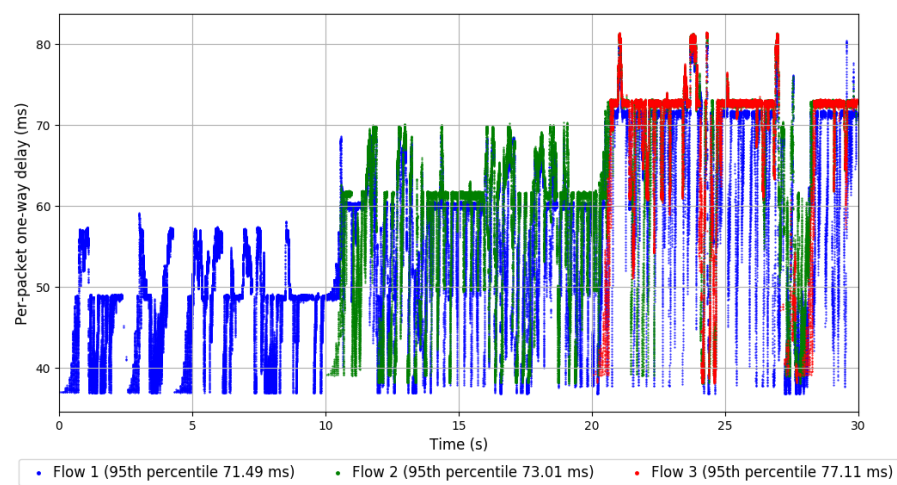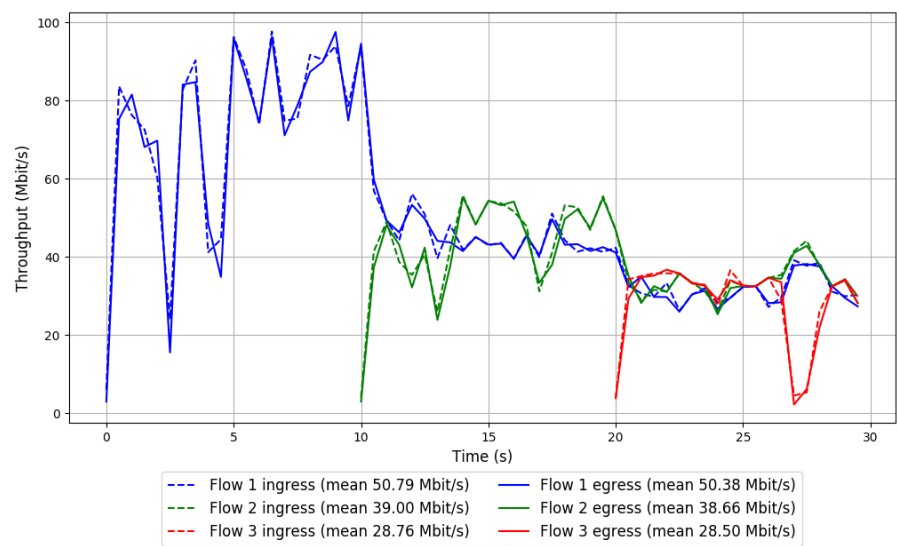
Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2018-03-21 01:59:58
End at: 2018-03-21 02:00:28
Local clock offset: -0.626 ms
Remote clock offset: -3.685 ms


# Below is generated by plot.py at 2018-03-21 08:59:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 72.961 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 50.38 Mbit/s
95th percentile per-packet one-way delay: 71.493 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 73.007 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 28.50 Mbit/s
95th percentile per-packet one-way delay: 77.105 ms
Loss rate: 1.62%
```

Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 50.79 Mbit/s) ---- Flow 1 egress (mean 50.38 Mbit/s)
Flow 2 ingress (mean 39.00 Mbit/s) ---- Flow 2 egress (mean 38.66 Mbit/s)
Flow 3 ingress (mean 28.76 Mbit/s) ---- Flow 3 egress (mean 28.50 Mbit/s)

Flow 1 (95th percentile 71.49 ms)   Flow 2 (95th percentile 73.01 ms)   Flow 3 (95th percentile 77.11 ms)
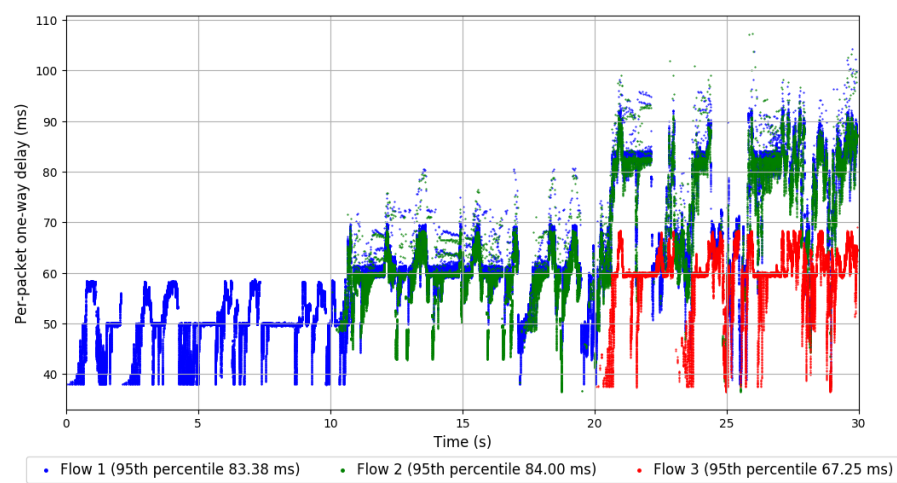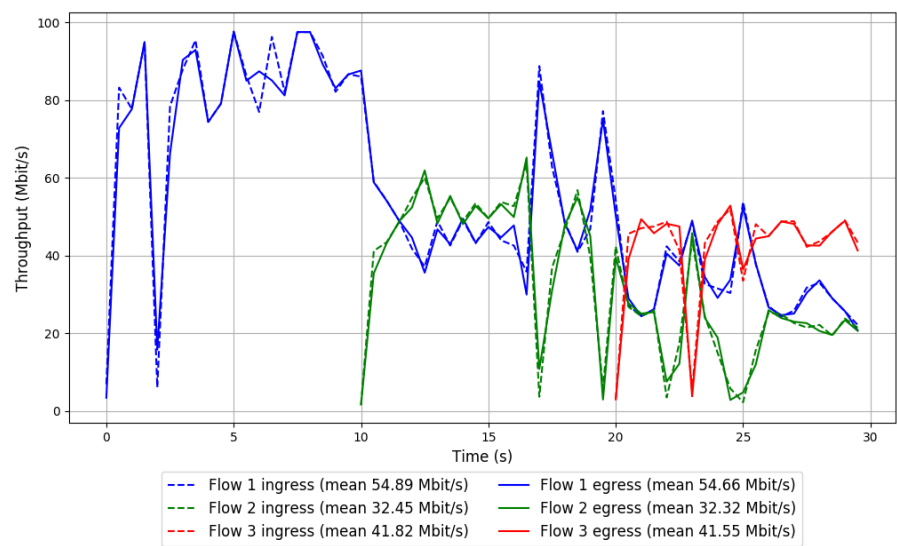
```
Run 7: Statistics of Verus

Start at: 2018-03-21 02:25:48
End at: 2018-03-21 02:26:18
Local clock offset: -0.407 ms
Remote clock offset: -8.032 ms


# Below is generated by plot.py at 2018-03-21 09:00:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.83 Mbit/s
95th percentile per-packet one-way delay: 82.749 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 54.66 Mbit/s
95th percentile per-packet one-way delay: 83.381 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 84.004 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 41.55 Mbit/s
95th percentile per-packet one-way delay: 67.251 ms
Loss rate: 1.23%
```
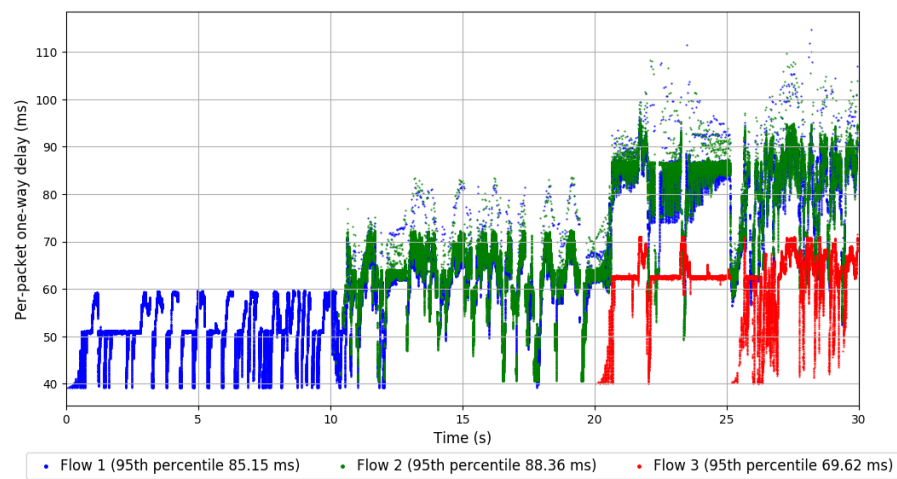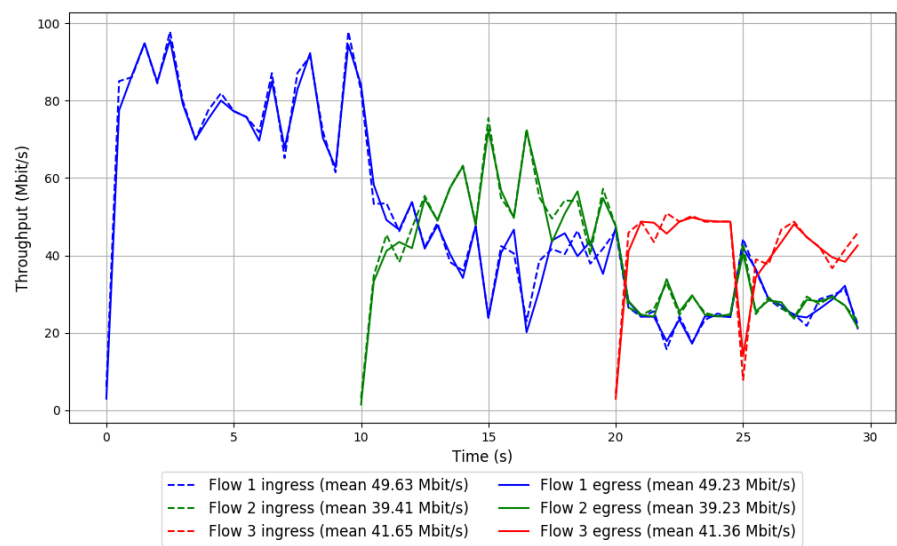
Run 7: Report of Verus — Data Link

217

```
Run 8: Statistics of Verus

Start at: 2018-03-21 02:51:20
End at: 2018-03-21 02:51:50
Local clock offset: -0.275 ms
Remote clock offset: -8.925 ms


# Below is generated by plot.py at 2018-03-21 09:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.98 Mbit/s
95th percentile per-packet one-way delay: 86.361 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 85.152 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 88.356 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 69.619 ms
Loss rate: 1.37%
```
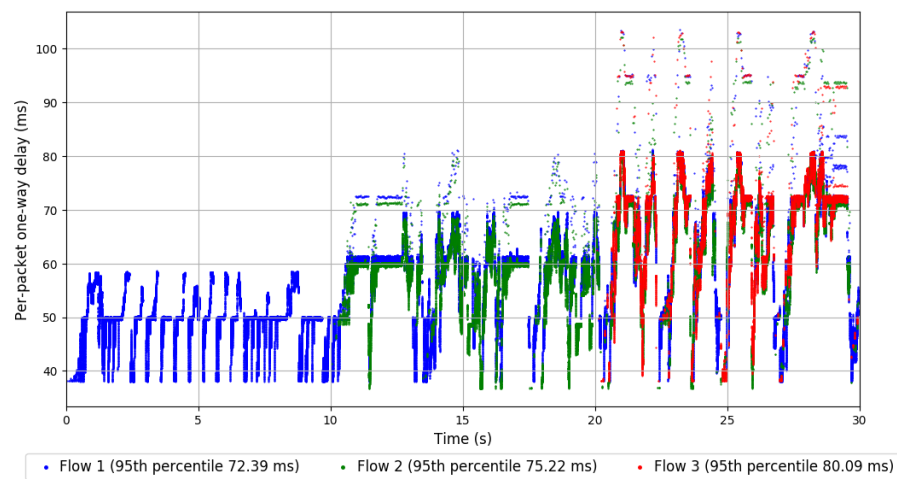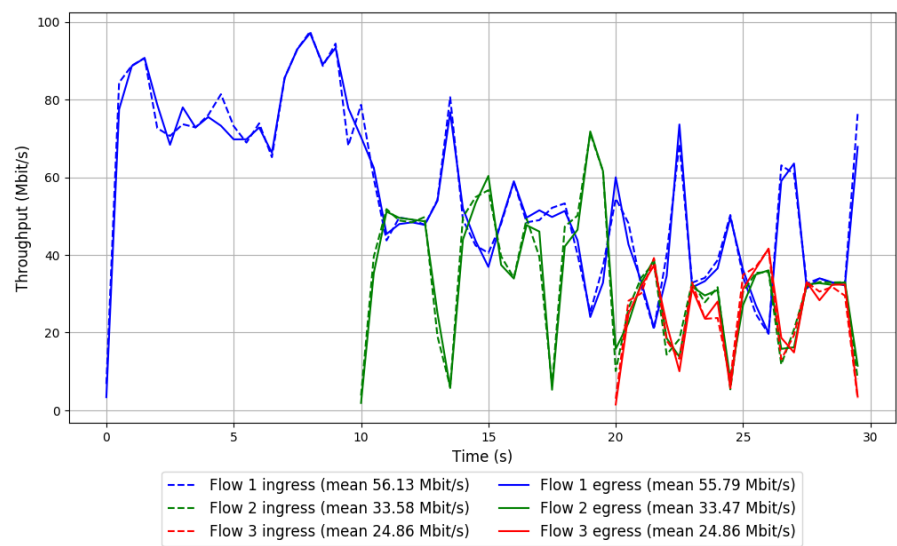
Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2018-03-21 03:18:05
End at: 2018-03-21 03:18:35
Local clock offset: -0.303 ms
Remote clock offset: -6.565 ms


# Below is generated by plot.py at 2018-03-21 09:00:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 74.543 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 55.79 Mbit/s
95th percentile per-packet one-way delay: 72.388 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 33.47 Mbit/s
95th percentile per-packet one-way delay: 75.220 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 80.088 ms
Loss rate: 0.93%
```

Run 9: Report of Verus — Data Link

Flow 1 ingress (mean 56.13 Mbit/s)   Flow 1 egress (mean 55.79 Mbit/s)
Flow 2 ingress (mean 33.58 Mbit/s)   Flow 2 egress (mean 33.47 Mbit/s)
Flow 3 ingress (mean 24.86 Mbit/s)   Flow 3 egress (mean 24.86 Mbit/s)

Flow 1 (95th percentile 72.39 ms)   Flow 2 (95th percentile 75.22 ms)   Flow 3 (95th percentile 80.09 ms)
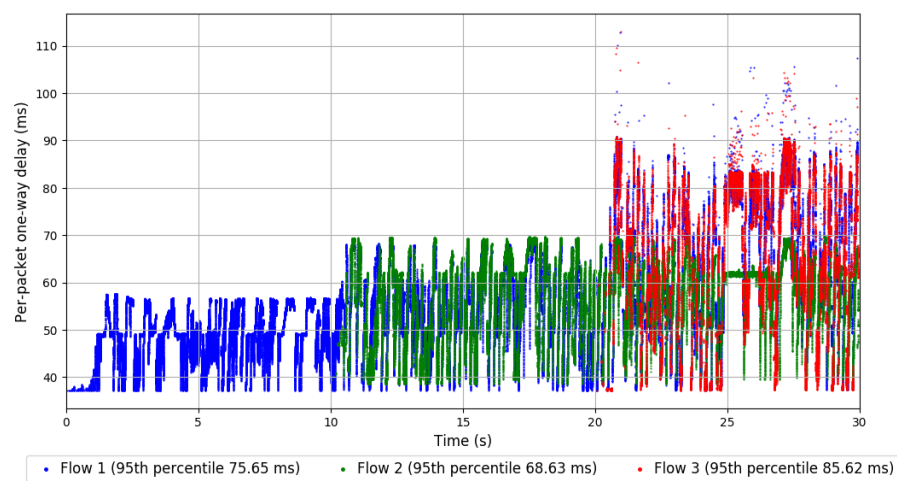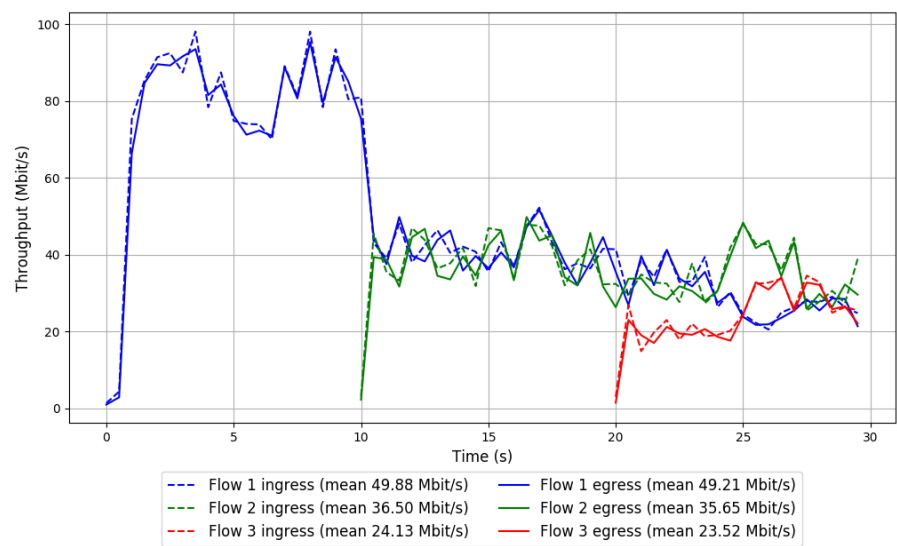
221

```
Run 10: Statistics of Verus

Start at: 2018-03-21 03:43:35
End at: 2018-03-21 03:44:05
Local clock offset: -0.157 ms
Remote clock offset: -6.627 ms

# Below is generated by plot.py at 2018-03-21 09:00:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.66 Mbit/s
95th percentile per-packet one-way delay: 78.013 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 75.650 ms
Loss rate: 1.63%
-- Flow 2:
Average throughput: 35.65 Mbit/s
95th percentile per-packet one-way delay: 68.627 ms
Loss rate: 2.63%
-- Flow 3:
Average throughput: 23.52 Mbit/s
95th percentile per-packet one-way delay: 85.617 ms
Loss rate: 3.06%
```
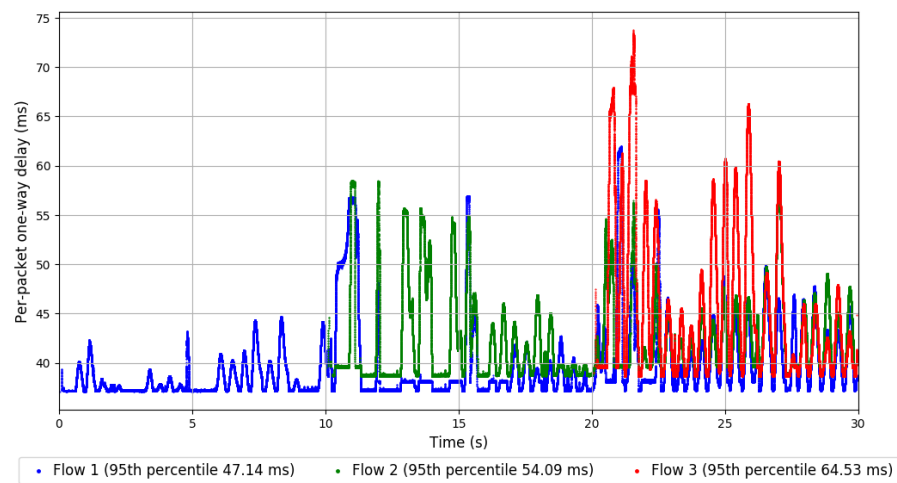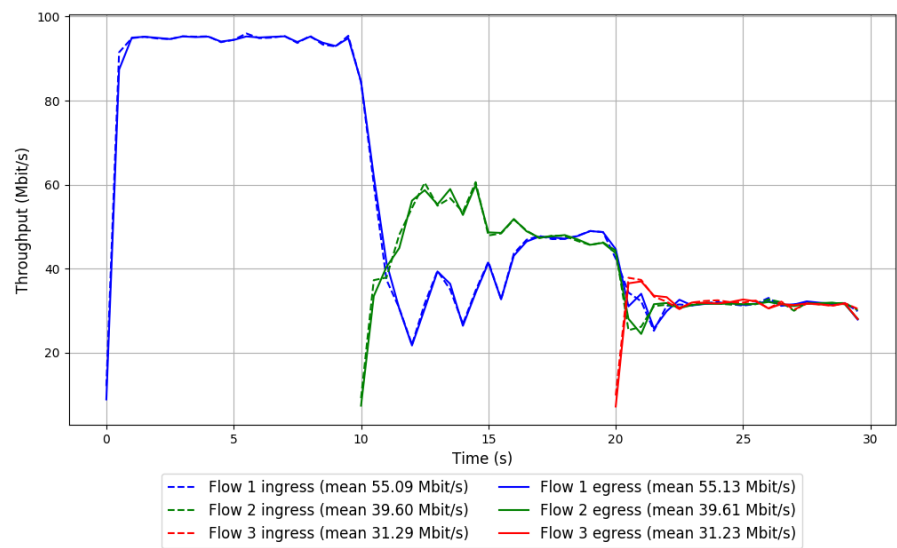
Run 10: Report of Verus — Data Link

```
Run 1: Statistics of Copa

Start at: 2018-03-20 23:45:28
End at: 2018-03-20 23:45:58
Local clock offset: -0.446 ms
Remote clock offset: -4.415 ms


# Below is generated by plot.py at 2018-03-21 09:01:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.81 Mbit/s
95th percentile per-packet one-way delay: 53.193 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 55.13 Mbit/s
95th percentile per-packet one-way delay: 47.137 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 54.094 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 64.535 ms
Loss rate: 0.85%
```

Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 55.09 Mbit/s) --- Flow 1 egress (mean 55.13 Mbit/s)
Flow 2 ingress (mean 39.60 Mbit/s) --- Flow 2 egress (mean 39.61 Mbit/s)
Flow 3 ingress (mean 31.29 Mbit/s) --- Flow 3 egress (mean 31.23 Mbit/s)

Flow 1 (95th percentile 47.14 ms)   Flow 2 (95th percentile 54.09 ms)   Flow 3 (95th percentile 64.53 ms)
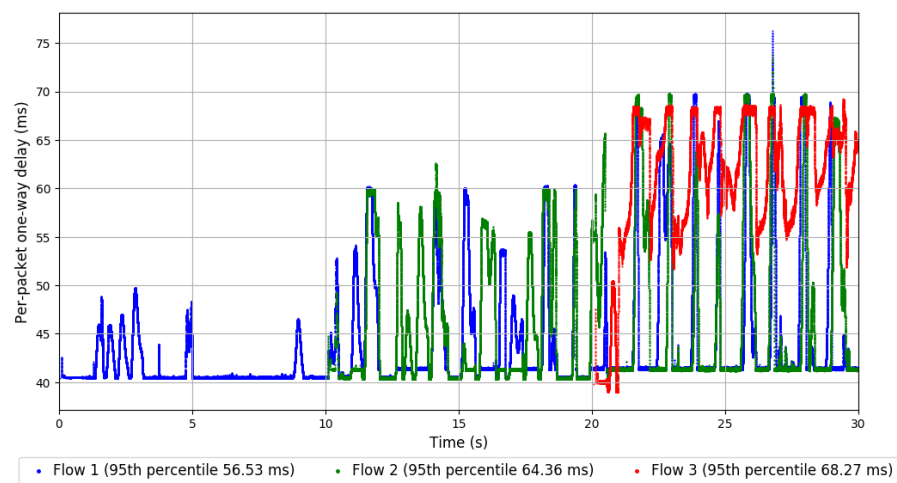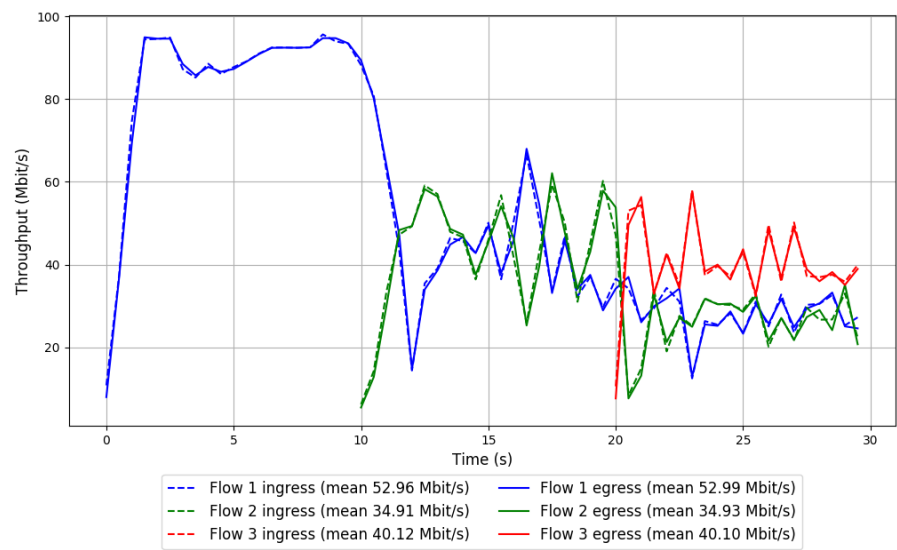
```
Run 2: Statistics of Copa

Start at: 2018-03-21 00:10:17
End at: 2018-03-21 00:10:47
Local clock offset: -0.173 ms
Remote clock offset: -7.009 ms


# Below is generated by plot.py at 2018-03-21 09:01:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 66.688 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 56.534 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: 64.357 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 40.10 Mbit/s
95th percentile per-packet one-way delay: 68.269 ms
Loss rate: 0.80%
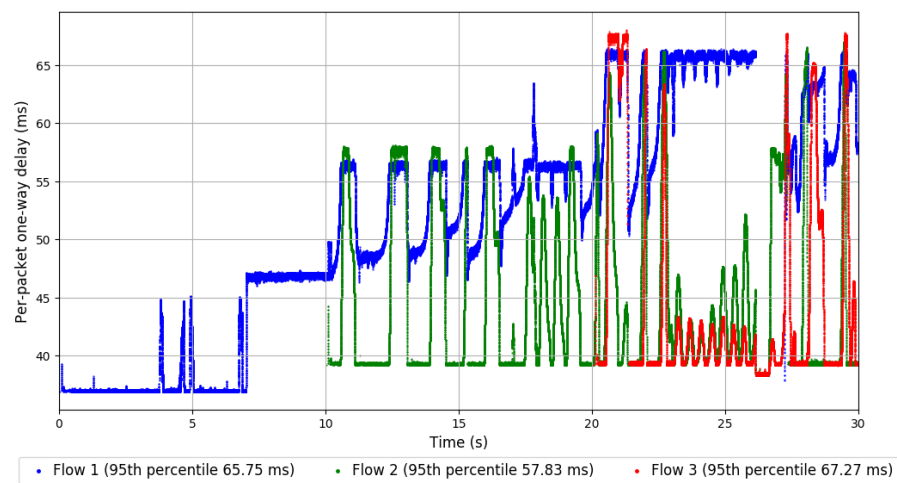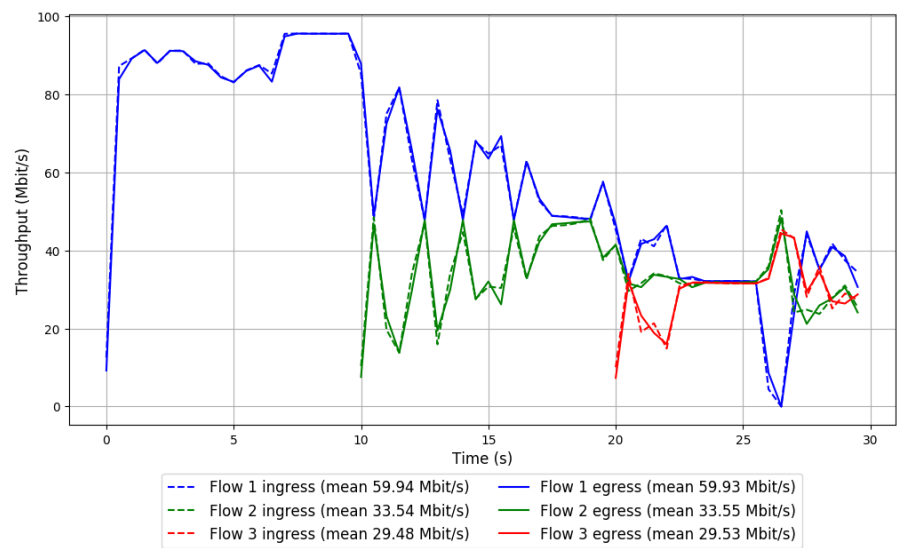```

Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2018-03-21 00:35:30
End at: 2018-03-21 00:36:00
Local clock offset: 0.176 ms
Remote clock offset: -5.772 ms


# Below is generated by plot.py at 2018-03-21 09:01:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.03 Mbit/s
95th percentile per-packet one-way delay: 65.600 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 59.93 Mbit/s
95th percentile per-packet one-way delay: 65.749 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 33.55 Mbit/s
95th percentile per-packet one-way delay: 57.834 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 67.272 ms
Loss rate: 0.49%
```

Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 59.94 Mbit/s) ---- Flow 1 egress (mean 59.93 Mbit/s)
Flow 2 ingress (mean 33.54 Mbit/s) ---- Flow 2 egress (mean 33.55 Mbit/s)
Flow 3 ingress (mean 29.48 Mbit/s) ---- Flow 3 egress (mean 29.53 Mbit/s)

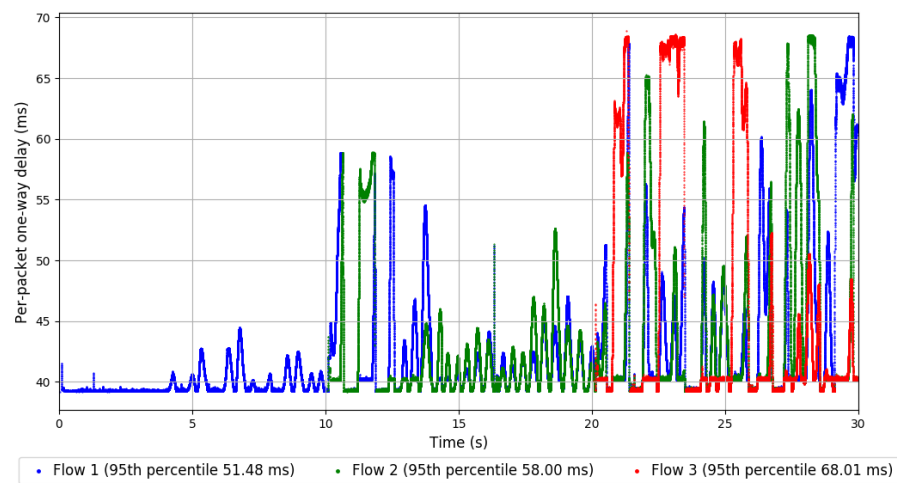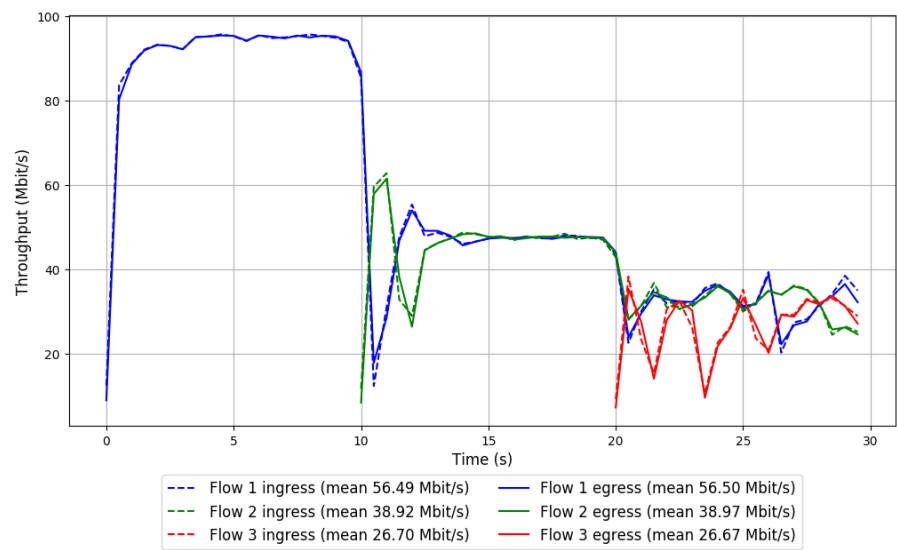Flow 1 (95th percentile 65.75 ms)   Flow 2 (95th percentile 57.83 ms)   Flow 3 (95th percentile 67.27 ms)

```
Run 4: Statistics of Copa

Start at: 2018-03-21 01:00:26
End at: 2018-03-21 01:00:56
Local clock offset: 0.659 ms
Remote clock offset: -5.938 ms


# Below is generated by plot.py at 2018-03-21 09:02:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 58.659 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 56.50 Mbit/s
95th percentile per-packet one-way delay: 51.475 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 58.004 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 68.011 ms
Loss rate: 0.81%
```

Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 56.49 Mbit/s) --- Flow 1 egress (mean 56.50 Mbit/s)
Flow 2 ingress (mean 38.92 Mbit/s) --- Flow 2 egress (mean 38.97 Mbit/s)
Flow 3 ingress (mean 26.70 Mbit/s) --- Flow 3 egress (mean 26.67 Mbit/s)

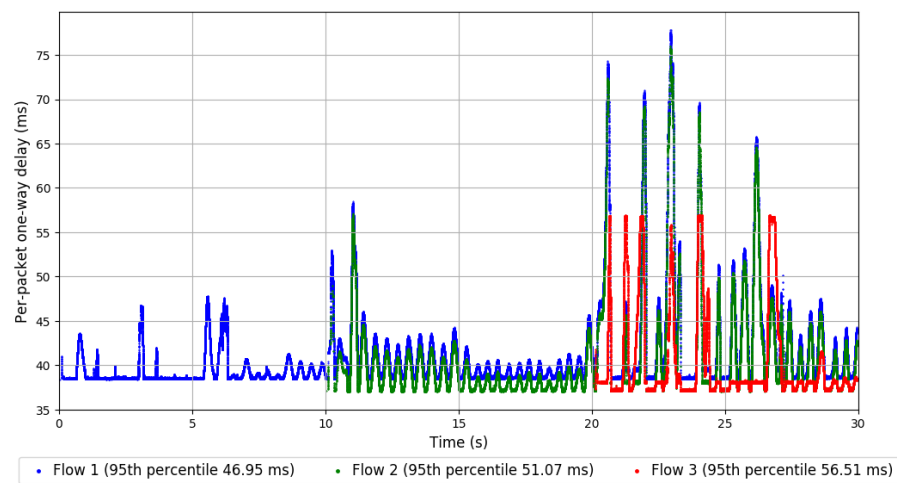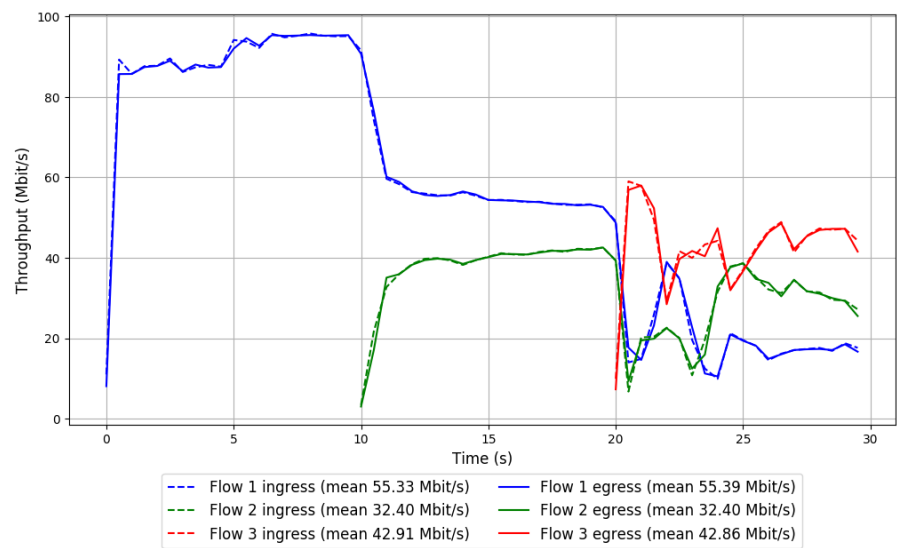Flow 1 (95th percentile 51.48 ms)   Flow 2 (95th percentile 58.00 ms)   Flow 3 (95th percentile 68.01 ms)

```
Run 5: Statistics of Copa

Start at: 2018-03-21 01:25:17
End at: 2018-03-21 01:25:47
Local clock offset: -0.443 ms
Remote clock offset: -3.018 ms


# Below is generated by plot.py at 2018-03-21 09:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.12 Mbit/s
95th percentile per-packet one-way delay: 50.232 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 46.953 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 32.40 Mbit/s
95th percentile per-packet one-way delay: 51.069 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 42.86 Mbit/s
95th percentile per-packet one-way delay: 56.509 ms
Loss rate: 0.77%
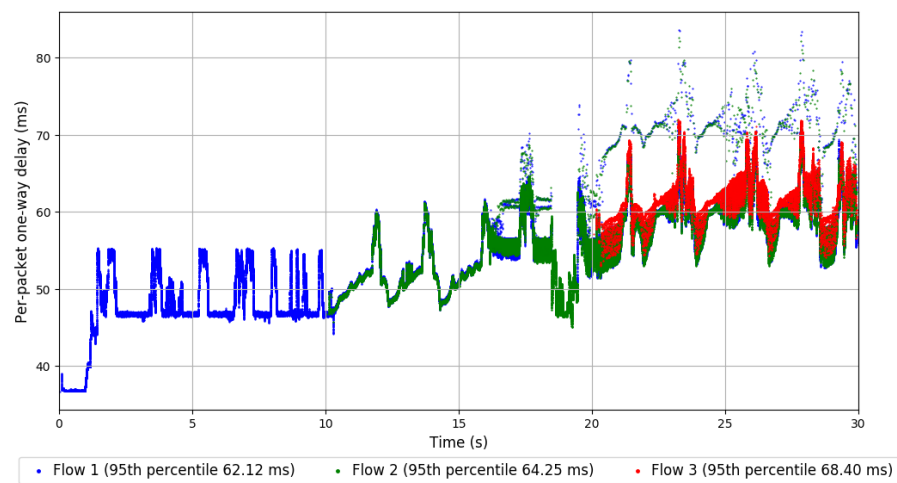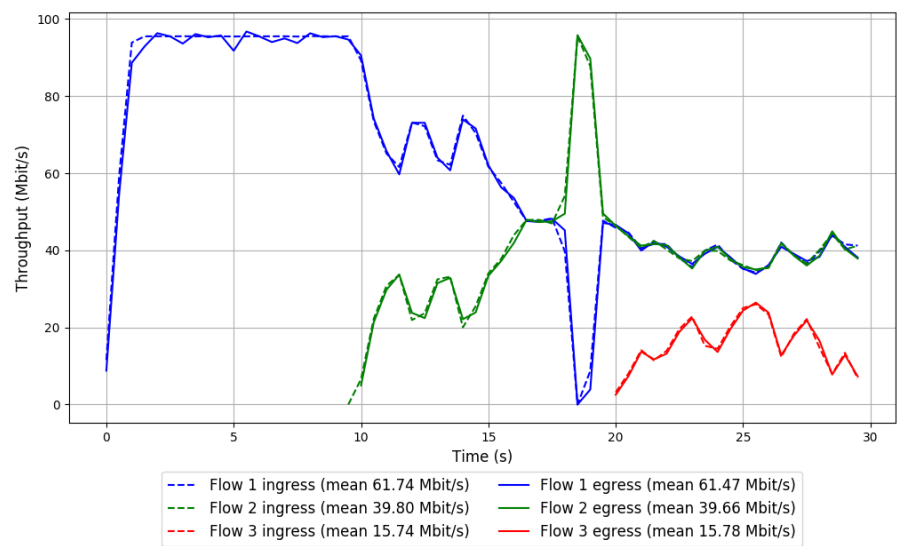```

Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: 2018-03-21 01:50:10
End at: 2018-03-21 01:50:40
Local clock offset: -0.486 ms
Remote clock offset: -2.542 ms


# Below is generated by plot.py at 2018-03-21 09:02:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 63.621 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 61.47 Mbit/s
95th percentile per-packet one-way delay: 62.116 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 64.251 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 68.403 ms
Loss rate: 0.61%
```

Run 6: Report of Copa — Data Link

- - - - Flow 1 ingress (mean 61.74 Mbit/s) ——— Flow 1 egress (mean 61.47 Mbit/s)
- - - - Flow 2 ingress (mean 39.80 Mbit/s) ——— Flow 2 egress (mean 39.66 Mbit/s)
- - - - Flow 3 ingress (mean 15.74 Mbit/s) ——— Flow 3 egress (mean 15.78 Mbit/s)

• Flow 1 (95th percentile 62.12 ms)   • Flow 2 (95th percentile 64.25 ms)   • Flow 3 (95th percentile 68.40 ms)
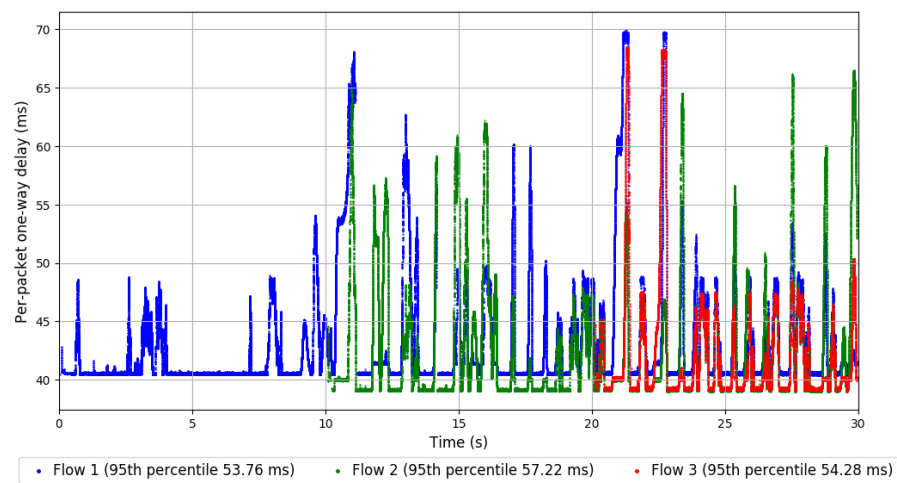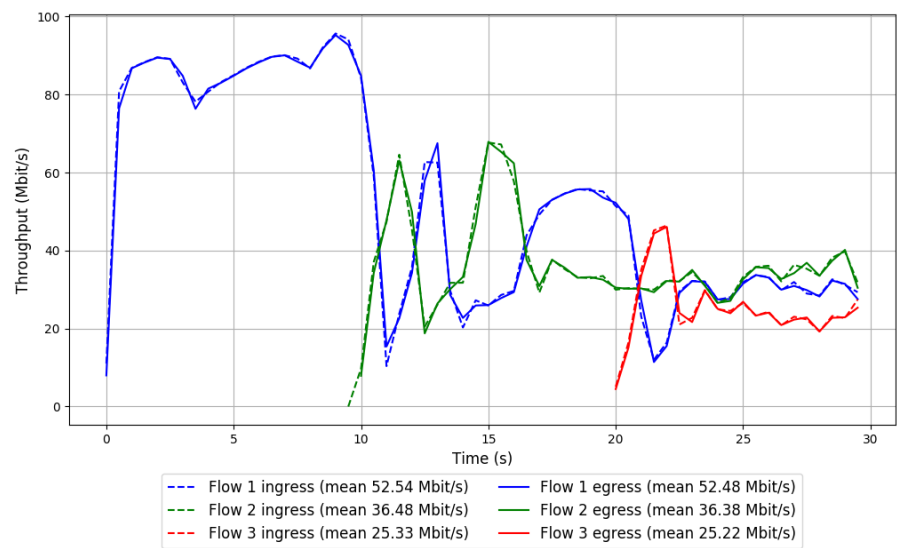
235

```
Run 7: Statistics of Copa

Start at: 2018-03-21 02:15:34
End at: 2018-03-21 02:16:04
Local clock offset: -0.493 ms
Remote clock offset: -9.223 ms


# Below is generated by plot.py at 2018-03-21 09:02:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 55.062 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 52.48 Mbit/s
95th percentile per-packet one-way delay: 53.764 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 36.38 Mbit/s
95th percentile per-packet one-way delay: 57.224 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 25.22 Mbit/s
95th percentile per-packet one-way delay: 54.278 ms
Loss rate: 1.16%
```

Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 52.54 Mbit/s)   Flow 1 egress (mean 52.48 Mbit/s)
Flow 2 ingress (mean 36.48 Mbit/s)   Flow 2 egress (mean 36.38 Mbit/s)
Flow 3 ingress (mean 25.33 Mbit/s)   Flow 3 egress (mean 25.22 Mbit/s)

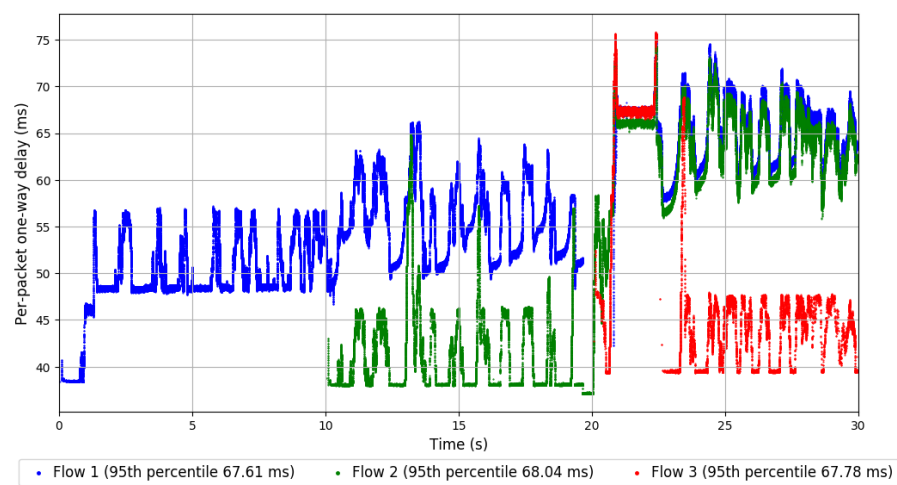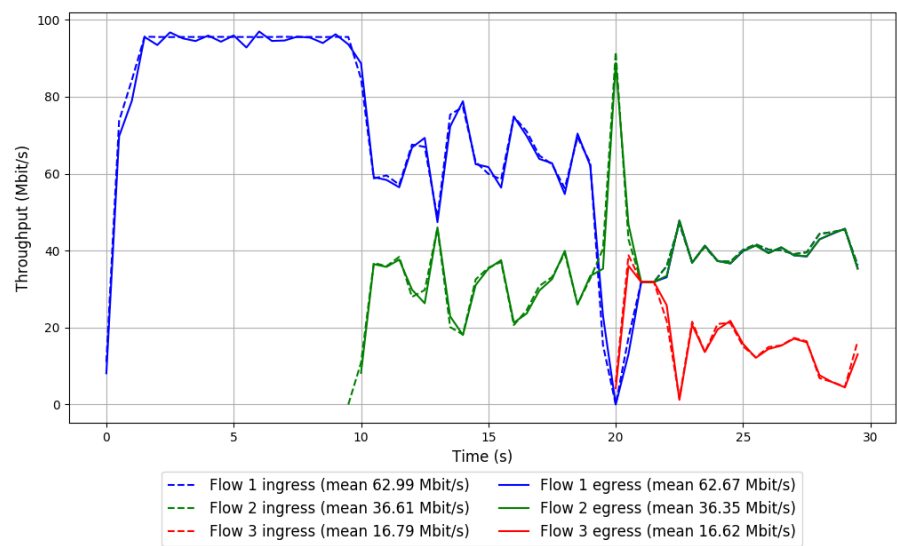Flow 1 (95th percentile 53.76 ms)   Flow 2 (95th percentile 57.22 ms)   Flow 3 (95th percentile 54.28 ms)

```
Run 8: Statistics of Copa

Start at: 2018-03-21 02:41:20
End at: 2018-03-21 02:41:50
Local clock offset: -0.251 ms
Remote clock offset: -7.402 ms


# Below is generated by plot.py at 2018-03-21 09:03:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.35 Mbit/s
95th percentile per-packet one-way delay: 67.725 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 62.67 Mbit/s
95th percentile per-packet one-way delay: 67.613 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 68.036 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 16.62 Mbit/s
95th percentile per-packet one-way delay: 67.776 ms
Loss rate: 1.72%
```
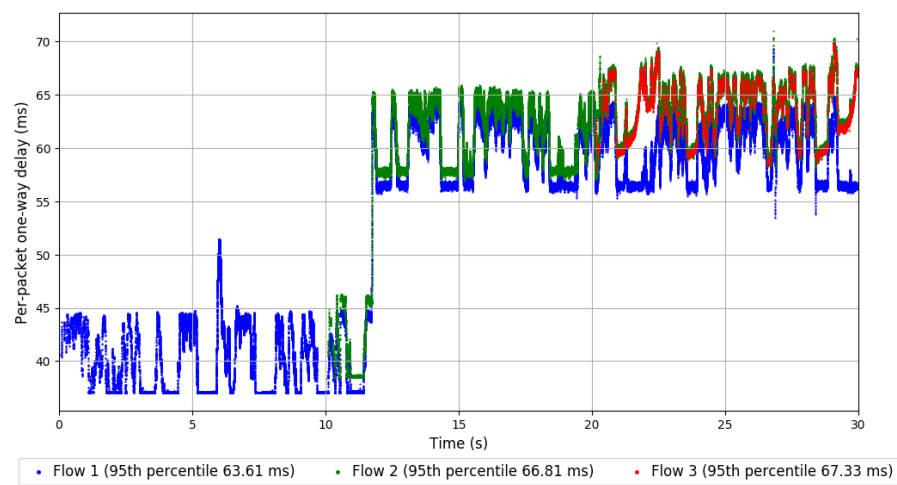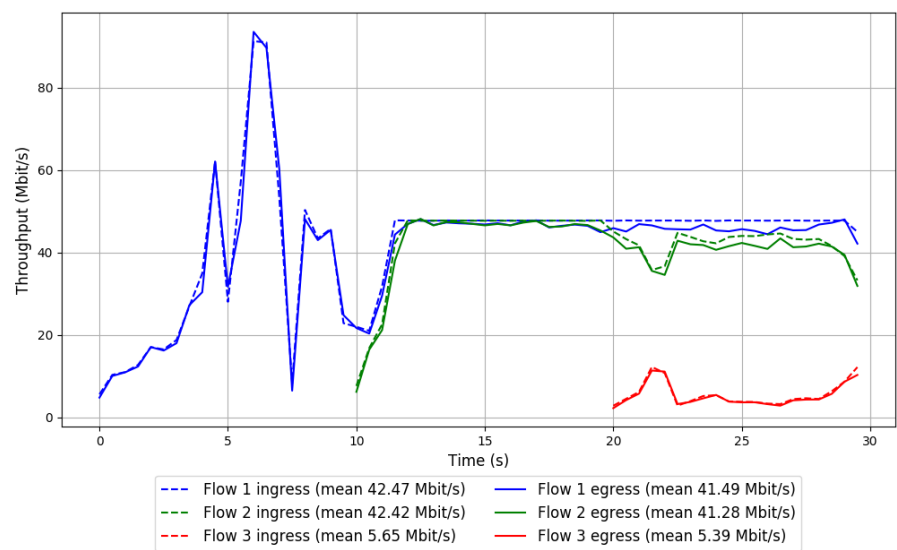
Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 62.99 Mbit/s)   Flow 1 egress (mean 62.67 Mbit/s)
Flow 2 ingress (mean 36.61 Mbit/s)   Flow 2 egress (mean 36.35 Mbit/s)
Flow 3 ingress (mean 16.79 Mbit/s)   Flow 3 egress (mean 16.62 Mbit/s)

Flow 1 (95th percentile 67.61 ms)   Flow 2 (95th percentile 68.04 ms)   Flow 3 (95th percentile 67.78 ms)

239

```
Run 9: Statistics of Copa

Start at: 2018-03-21 03:06:46
End at: 2018-03-21 03:07:16
Local clock offset: -0.405 ms
Remote clock offset: -7.181 ms


# Below is generated by plot.py at 2018-03-21 09:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.73 Mbit/s
95th percentile per-packet one-way delay: 66.023 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 41.49 Mbit/s
95th percentile per-packet one-way delay: 63.612 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 41.28 Mbit/s
95th percentile per-packet one-way delay: 66.812 ms
Loss rate: 3.02%
-- Flow 3:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 67.332 ms
Loss rate: 5.52%
```
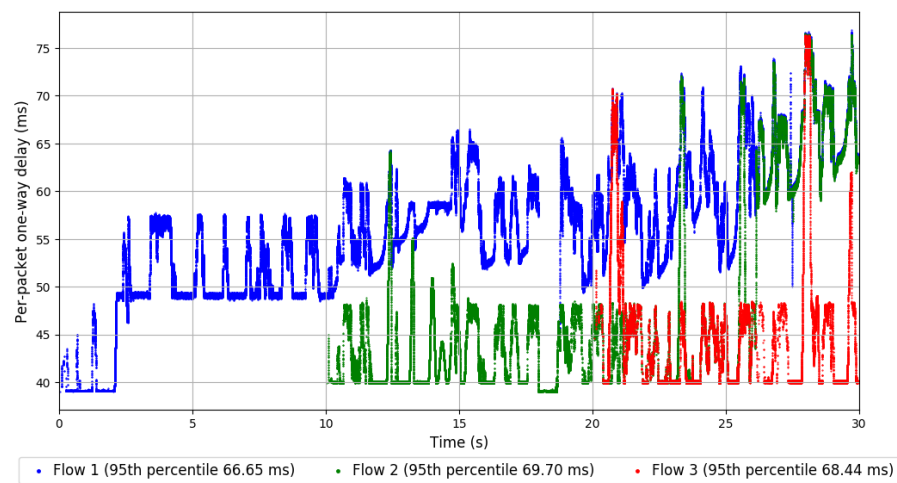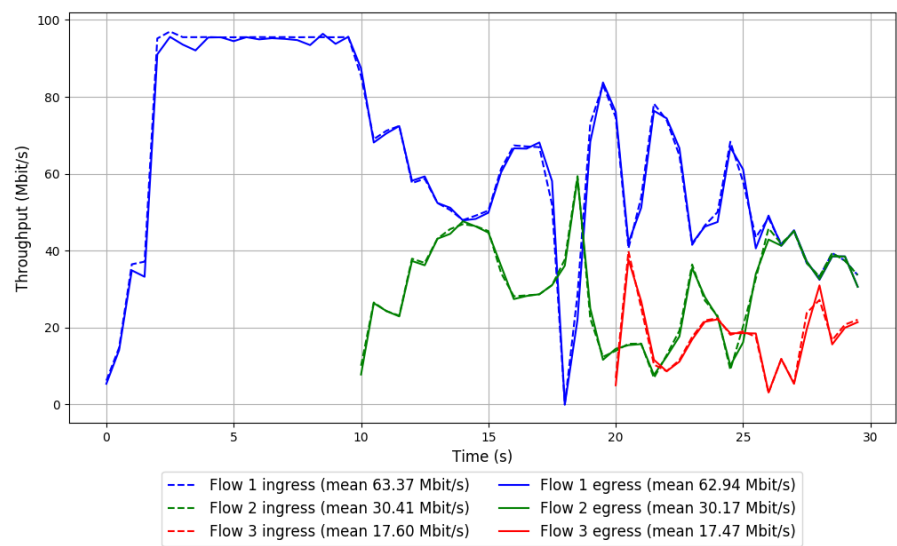
Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 42.47 Mbit/s)   Flow 1 egress (mean 41.49 Mbit/s)
Flow 2 ingress (mean 42.42 Mbit/s)   Flow 2 egress (mean 41.28 Mbit/s)
Flow 3 ingress (mean 5.65 Mbit/s)   Flow 3 egress (mean 5.39 Mbit/s)

Flow 1 (95th percentile 63.61 ms)   Flow 2 (95th percentile 66.81 ms)   Flow 3 (95th percentile 67.33 ms)

```
Run 10: Statistics of Copa

Start at: 2018-03-21 03:33:07
End at: 2018-03-21 03:33:37
Local clock offset: -0.271 ms
Remote clock offset: -9.392 ms


# Below is generated by plot.py at 2018-03-21 09:04:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.78 Mbit/s
95th percentile per-packet one-way delay: 67.810 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 66.652 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 30.17 Mbit/s
95th percentile per-packet one-way delay: 69.698 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 17.47 Mbit/s
95th percentile per-packet one-way delay: 68.439 ms
Loss rate: 1.46%
```
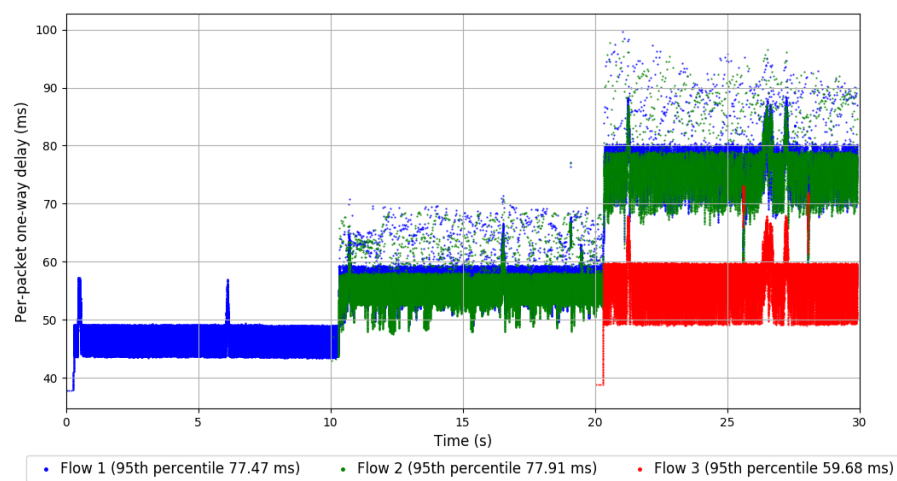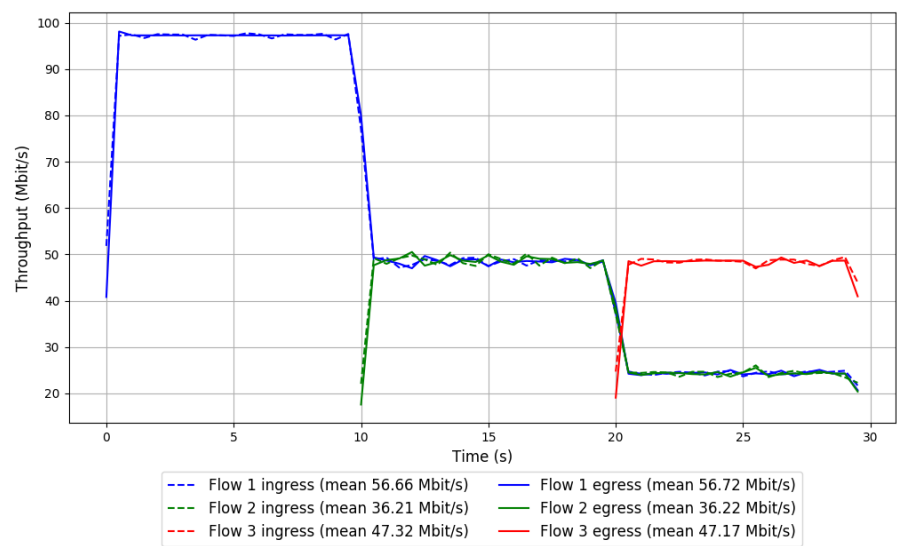
Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 63.37 Mbit/s) --- Flow 1 egress (mean 62.94 Mbit/s)
Flow 2 ingress (mean 30.41 Mbit/s) --- Flow 2 egress (mean 30.17 Mbit/s)
Flow 3 ingress (mean 17.60 Mbit/s) --- Flow 3 egress (mean 17.47 Mbit/s)

Flow 1 (95th percentile 66.65 ms)   Flow 2 (95th percentile 69.70 ms)   Flow 3 (95th percentile 68.44 ms)
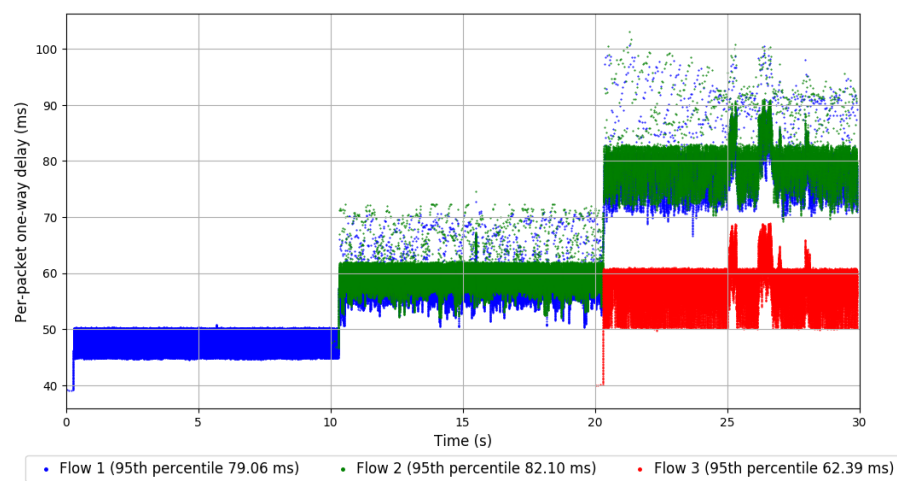
243

```
Run 1: Statistics of FillP

Start at: 2018-03-21 00:00:42
End at: 2018-03-21 00:01:12
Local clock offset: -0.38 ms
Remote clock offset: -3.685 ms

# Below is generated by plot.py at 2018-03-21 09:04:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 77.274 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 77.468 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 36.22 Mbit/s
95th percentile per-packet one-way delay: 77.910 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 47.17 Mbit/s
95th percentile per-packet one-way delay: 59.677 ms
Loss rate: 1.10%
```
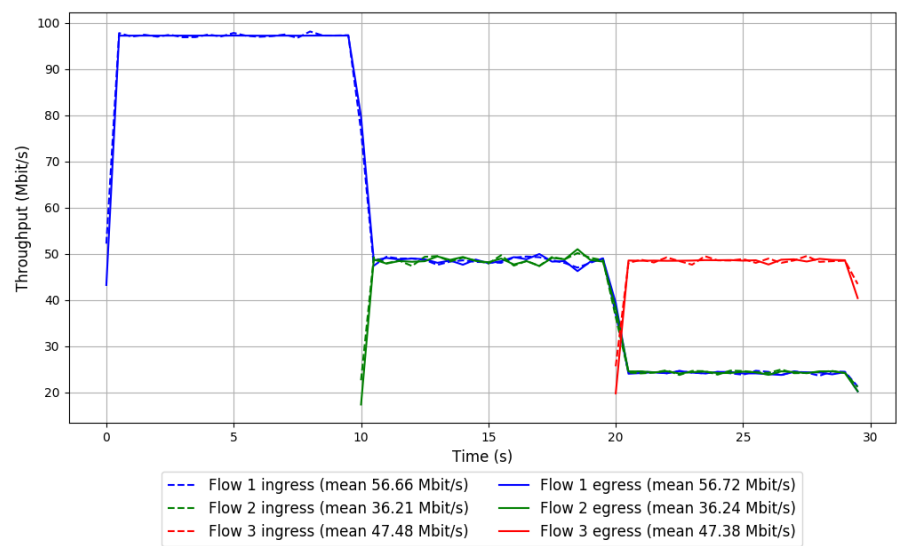
Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2018-03-21 00:25:42
End at: 2018-03-21 00:26:12
Local clock offset: 0.034 ms
Remote clock offset: -7.279 ms

# Below is generated by plot.py at 2018-03-21 09:04:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 80.145 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 79.058 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 36.24 Mbit/s
95th percentile per-packet one-way delay: 82.101 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 47.38 Mbit/s
95th percentile per-packet one-way delay: 62.387 ms
Loss rate: 0.95%
```
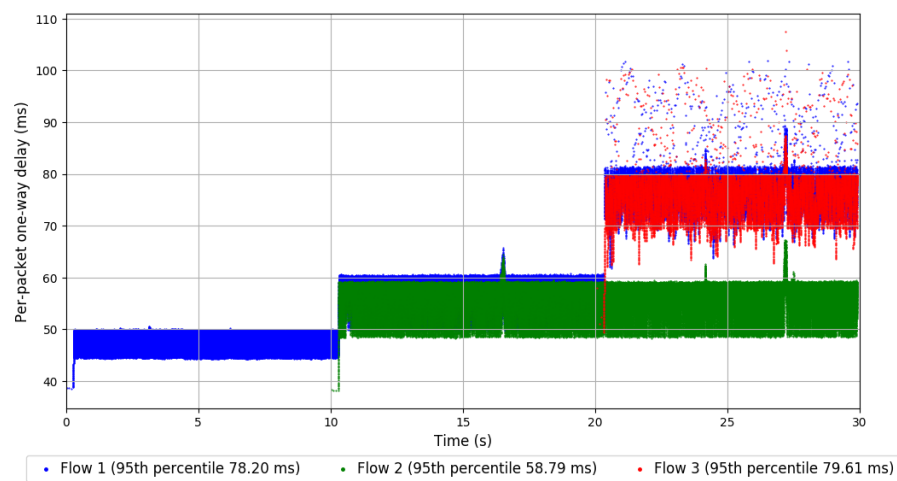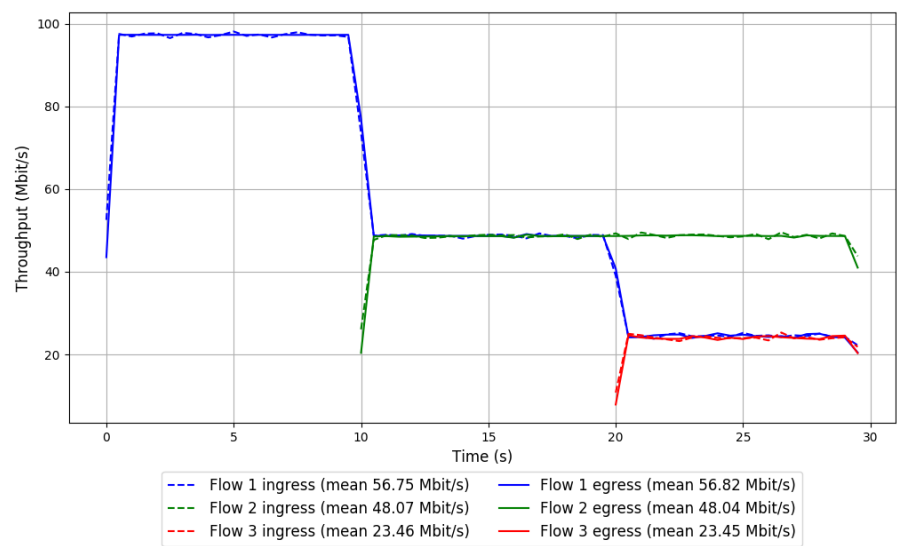
Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 56.66 Mbit/s) — Flow 1 egress (mean 56.72 Mbit/s)
Flow 2 ingress (mean 36.21 Mbit/s) — Flow 2 egress (mean 36.24 Mbit/s)
Flow 3 ingress (mean 47.48 Mbit/s) — Flow 3 egress (mean 47.38 Mbit/s)

Flow 1 (95th percentile 79.06 ms) • Flow 2 (95th percentile 82.10 ms) • Flow 3 (95th percentile 62.39 ms)
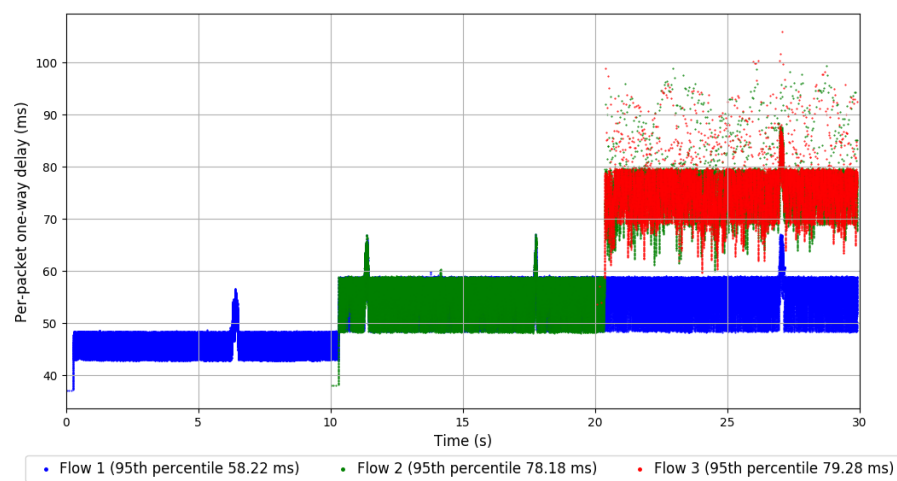
```
Run 3: Statistics of FillP

Start at: 2018-03-21 00:50:52
End at: 2018-03-21 00:51:22
Local clock offset: 0.538 ms
Remote clock offset: -7.095 ms

# Below is generated by plot.py at 2018-03-21 09:04:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 77.930 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 56.82 Mbit/s
95th percentile per-packet one-way delay: 78.199 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 48.04 Mbit/s
95th percentile per-packet one-way delay: 58.786 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 23.45 Mbit/s
95th percentile per-packet one-way delay: 79.615 ms
Loss rate: 0.99%
```
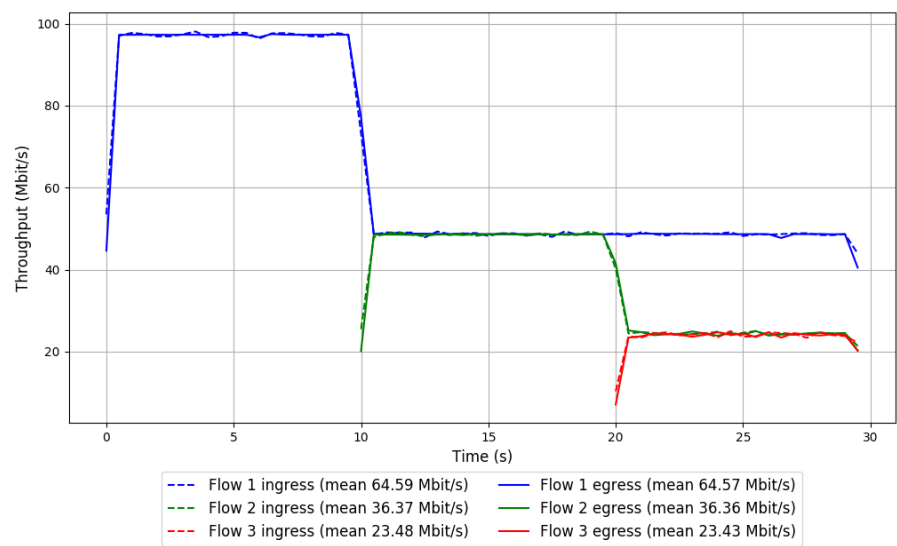
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 56.75 Mbit/s) —— Flow 1 egress (mean 56.82 Mbit/s)
Flow 2 ingress (mean 48.07 Mbit/s) —— Flow 2 egress (mean 48.04 Mbit/s)
Flow 3 ingress (mean 23.46 Mbit/s) —— Flow 3 egress (mean 23.45 Mbit/s)

• Flow 1 (95th percentile 78.20 ms)   • Flow 2 (95th percentile 58.79 ms)   • Flow 3 (95th percentile 79.61 ms)
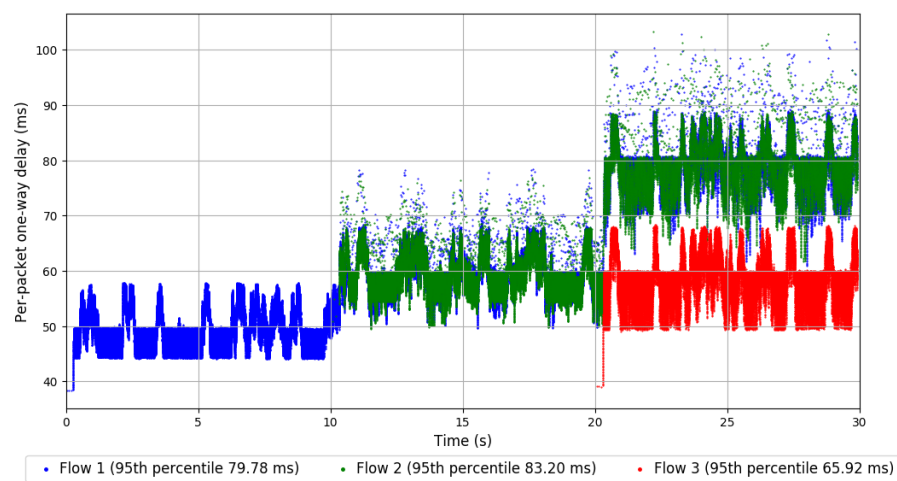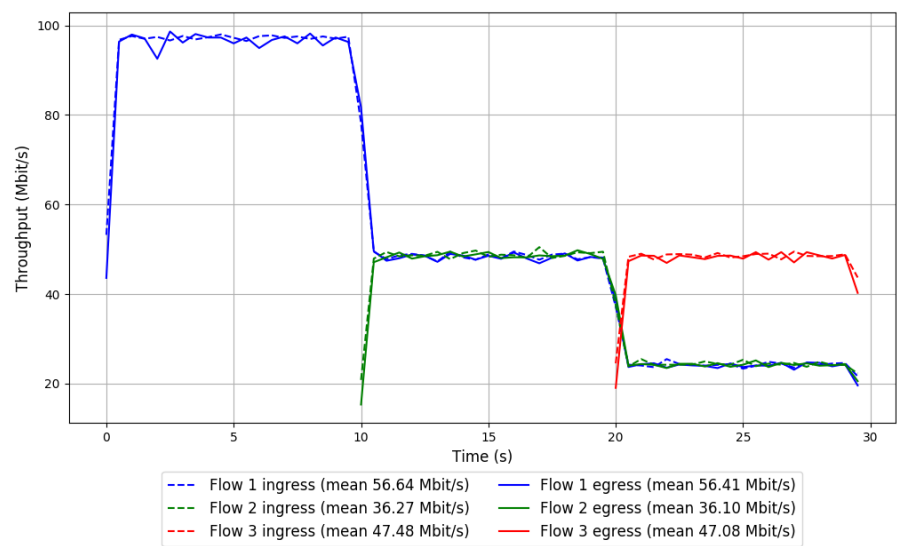
249

```
Run 4: Statistics of FillP

Start at: 2018-03-21 01:15:43
End at: 2018-03-21 01:16:13
Local clock offset: -0.141 ms
Remote clock offset: -2.921 ms


# Below is generated by plot.py at 2018-03-21 09:04:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.45 Mbit/s
95th percentile per-packet one-way delay: 76.696 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 64.57 Mbit/s
95th percentile per-packet one-way delay: 58.224 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 36.36 Mbit/s
95th percentile per-packet one-way delay: 78.182 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 23.43 Mbit/s
95th percentile per-packet one-way delay: 79.275 ms
Loss rate: 1.26%
```

Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2018-03-21 01:40:34
End at: 2018-03-21 01:41:04
Local clock offset: -0.576 ms
Remote clock offset: -2.593 ms

# Below is generated by plot.py at 2018-03-21 09:04:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 80.169 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 56.41 Mbit/s
95th percentile per-packet one-way delay: 79.785 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 36.10 Mbit/s
95th percentile per-packet one-way delay: 83.201 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 47.08 Mbit/s
95th percentile per-packet one-way delay: 65.924 ms
Loss rate: 1.56%
```

Run 5: Report of FillP — Data Link

```
Run 6: Statistics of FillP

Start at: 2018-03-21 02:05:41
End at: 2018-03-21 02:06:11
Local clock offset: -0.556 ms
Remote clock offset: -4.863 ms
```

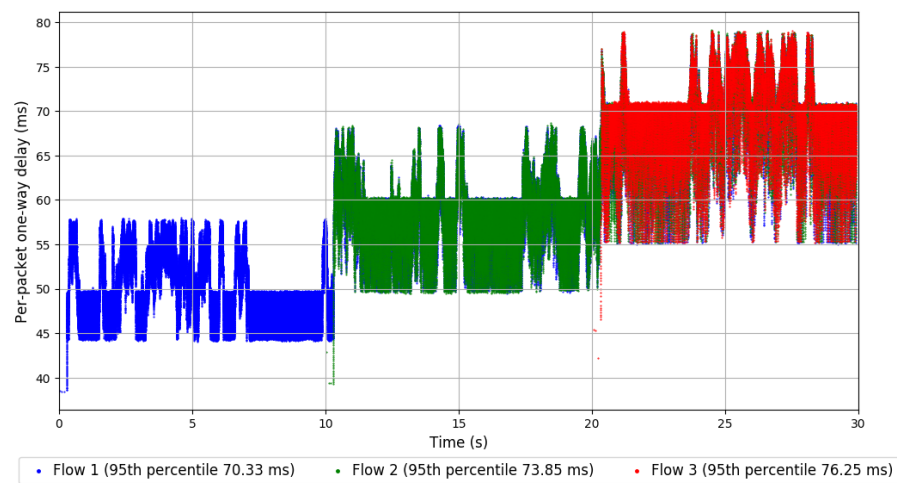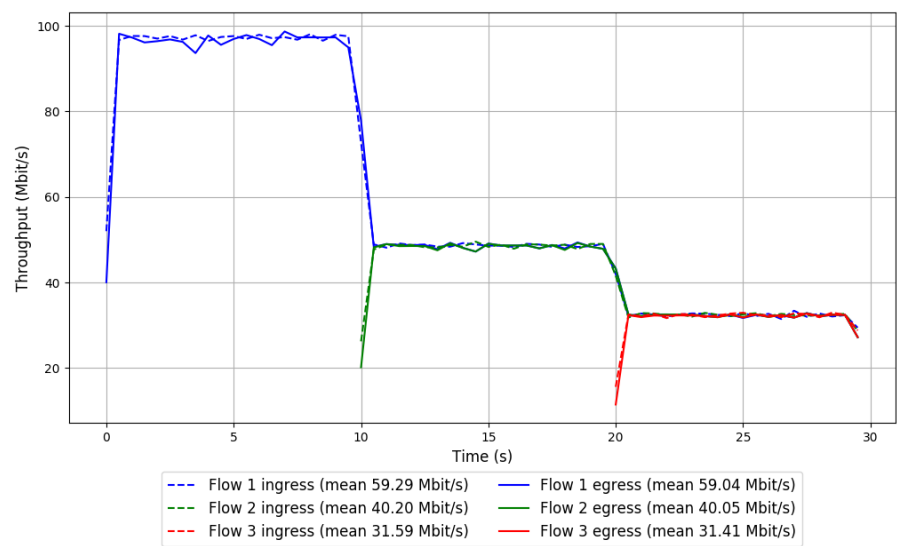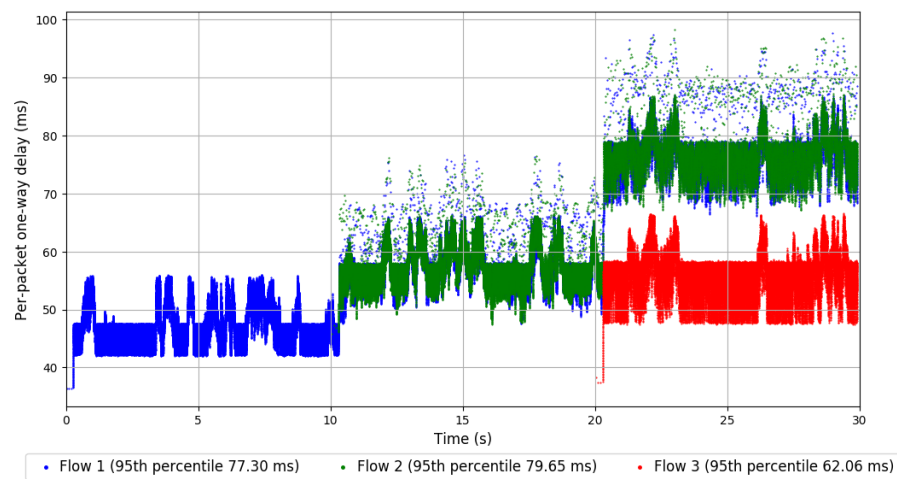Run 6: Report of FillP — Data Link

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Figure is missing

```
Run 7: Statistics of FillP

Start at: 2018-03-21 02:31:20
End at: 2018-03-21 02:31:50
Local clock offset: -0.295 ms
Remote clock offset: -9.174 ms


# Below is generated by plot.py at 2018-03-21 09:04:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 73.215 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 59.04 Mbit/s
95th percentile per-packet one-way delay: 70.330 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 40.05 Mbit/s
95th percentile per-packet one-way delay: 73.854 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 76.245 ms
Loss rate: 1.39%
```

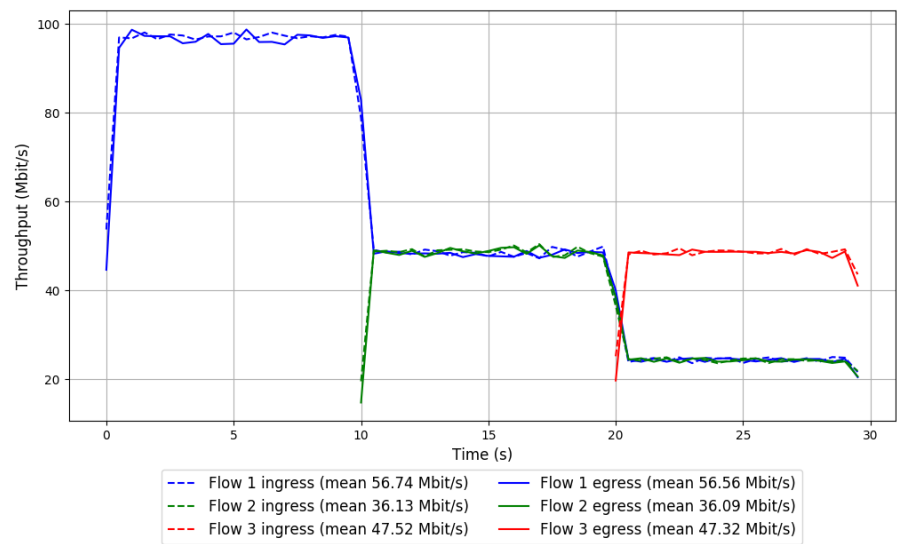## Run 7: Report of FillP — Data Link

```
Run 8: Statistics of FillP

Start at: 2018-03-21 02:56:58
End at: 2018-03-21 02:57:28
Local clock offset: -0.377 ms
Remote clock offset: -6.424 ms


# Below is generated by plot.py at 2018-03-21 09:05:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.16 Mbit/s
95th percentile per-packet one-way delay: 77.748 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 56.56 Mbit/s
95th percentile per-packet one-way delay: 77.303 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 36.09 Mbit/s
95th percentile per-packet one-way delay: 79.650 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 47.32 Mbit/s
95th percentile per-packet one-way delay: 62.056 ms
Loss rate: 1.11%
```
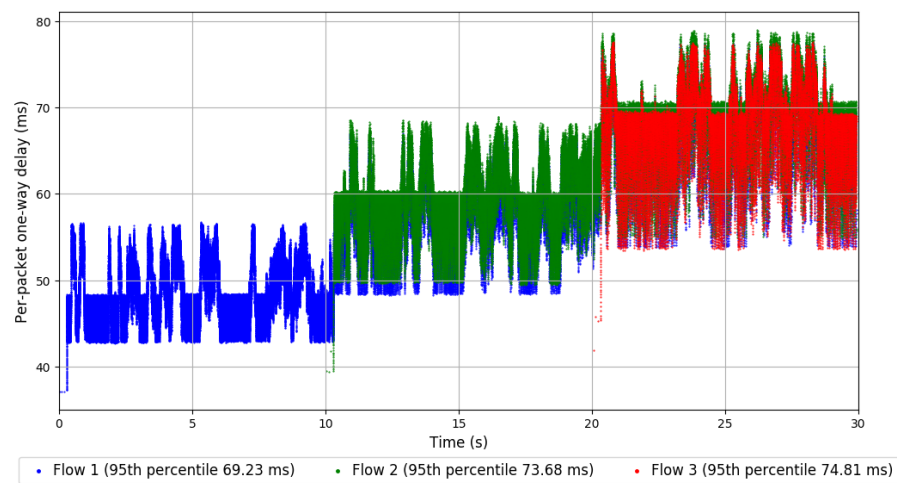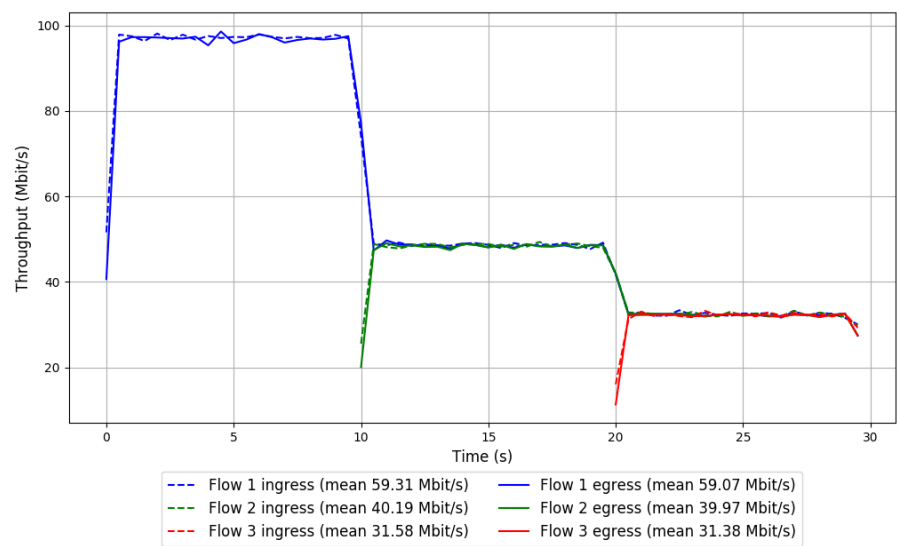
Run 8: Report of FillP — Data Link

Flow 1 ingress (mean 56.74 Mbit/s) — Flow 1 egress (mean 56.56 Mbit/s)
Flow 2 ingress (mean 36.13 Mbit/s) — Flow 2 egress (mean 36.09 Mbit/s)
Flow 3 ingress (mean 47.52 Mbit/s) — Flow 3 egress (mean 47.32 Mbit/s)

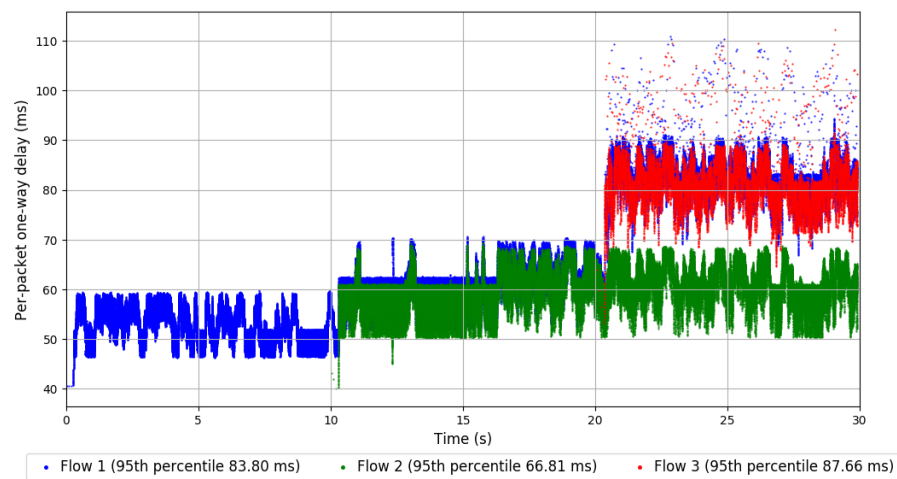Flow 1 (95th percentile 77.30 ms)   Flow 2 (95th percentile 79.65 ms)   Flow 3 (95th percentile 62.06 ms)

```
Run 9: Statistics of FillP

Start at: 2018-03-21 03:23:36
End at: 2018-03-21 03:24:06
Local clock offset: -0.27 ms
Remote clock offset: -7.095 ms

# Below is generated by plot.py at 2018-03-21 09:05:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 72.278 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 69.235 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 73.679 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 74.809 ms
Loss rate: 1.42%
```
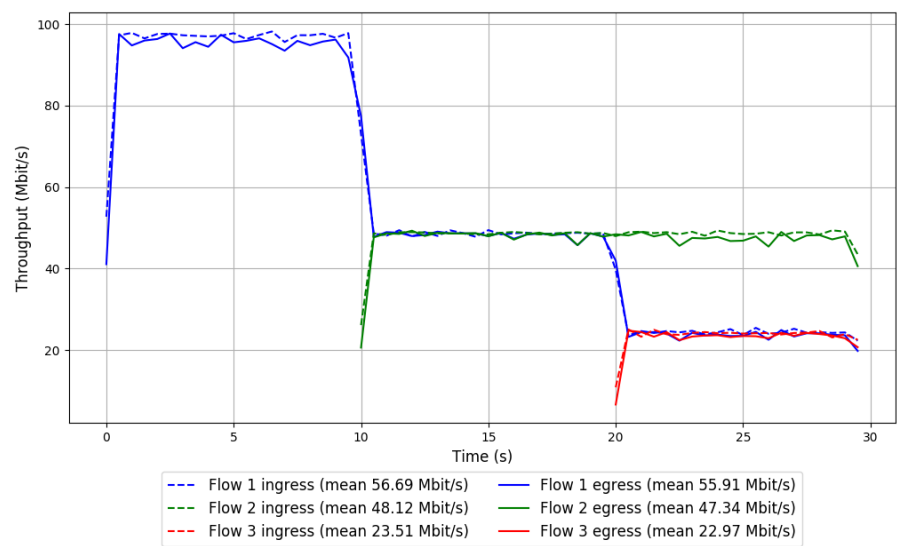
Run 9: Report of FillP — Data Link

```
Run 10: Statistics of FillP

Start at: 2018-03-21 03:49:13
End at: 2018-03-21 03:49:43
Local clock offset: -0.152 ms
Remote clock offset: -7.395 ms


# Below is generated by plot.py at 2018-03-21 09:05:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 83.744 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 83.804 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 47.34 Mbit/s
95th percentile per-packet one-way delay: 66.807 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 87.662 ms
Loss rate: 3.26%
```
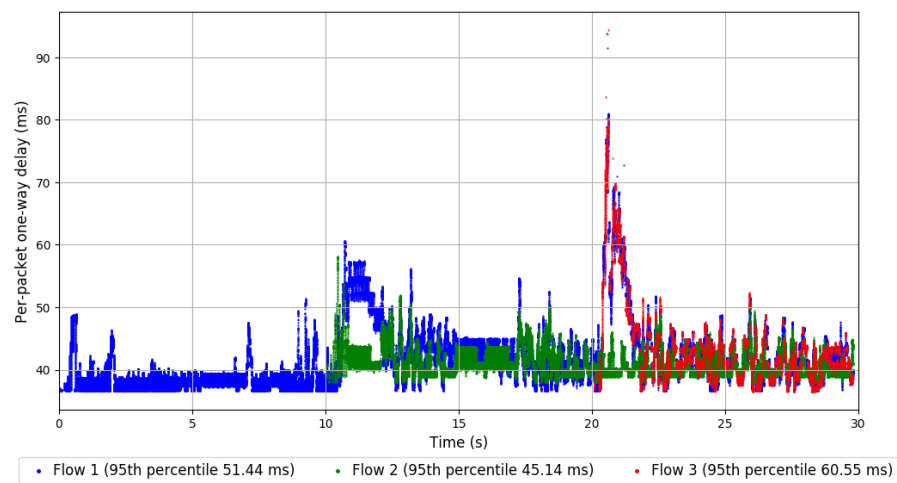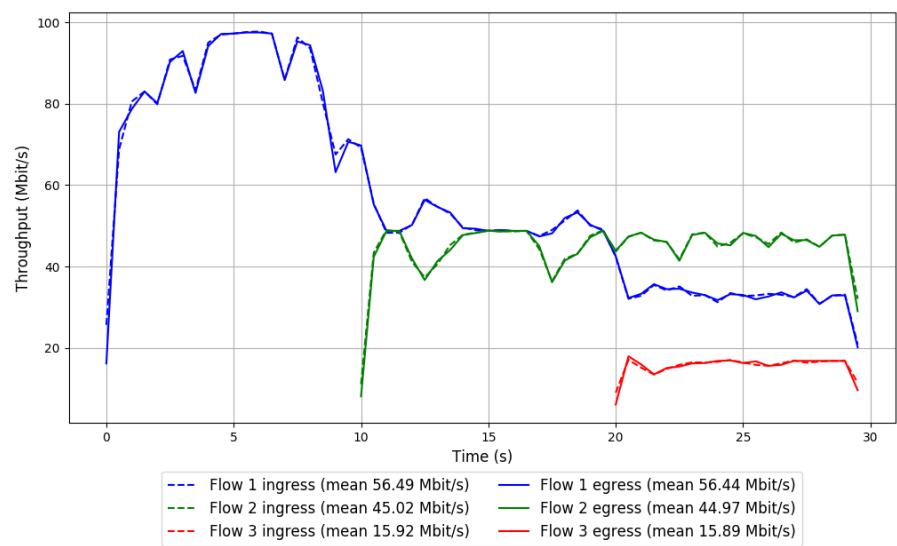
Run 10: Report of FillP — Data Link

- - - Flow 1 ingress (mean 56.69 Mbit/s) —— Flow 1 egress (mean 55.91 Mbit/s)
- - - Flow 2 ingress (mean 48.12 Mbit/s) —— Flow 2 egress (mean 47.34 Mbit/s)
- - - Flow 3 ingress (mean 23.51 Mbit/s) —— Flow 3 egress (mean 22.97 Mbit/s)

- Flow 1 (95th percentile 83.80 ms) • Flow 2 (95th percentile 66.81 ms) • Flow 3 (95th percentile 87.66 ms)

263

```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-21 00:08:52
End at: 2018-03-21 00:09:22
Local clock offset: -0.107 ms
Remote clock offset: -4.337 ms


# Below is generated by plot.py at 2018-03-21 09:05:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 48.801 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 51.444 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 45.141 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 15.89 Mbit/s
95th percentile per-packet one-way delay: 60.548 ms
Loss rate: 0.83%
```
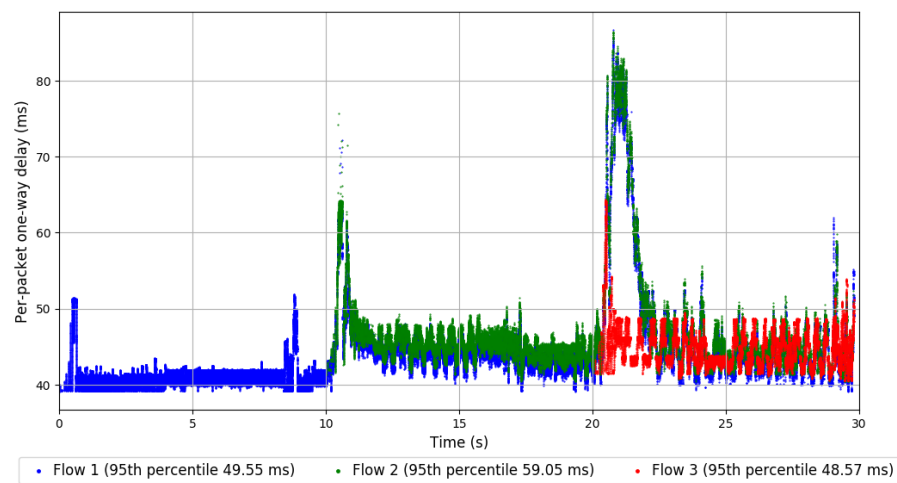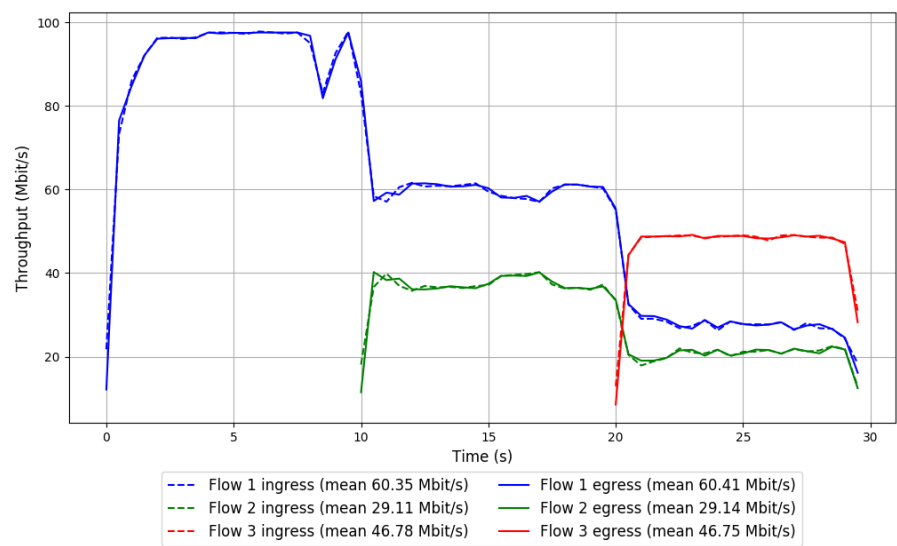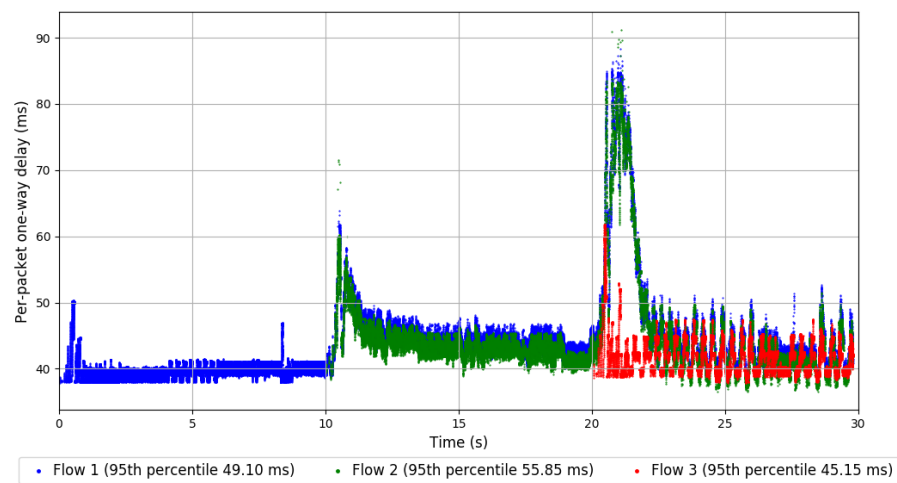
Run 1: Report of Indigo-1-32 — Data Link

```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-21 00:34:00
End at: 2018-03-21 00:34:30
Local clock offset: 0.221 ms
Remote clock offset: -7.71 ms


# Below is generated by plot.py at 2018-03-21 09:05:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 50.025 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 49.548 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 29.14 Mbit/s
95th percentile per-packet one-way delay: 59.046 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 46.75 Mbit/s
95th percentile per-packet one-way delay: 48.567 ms
Loss rate: 0.75%
```

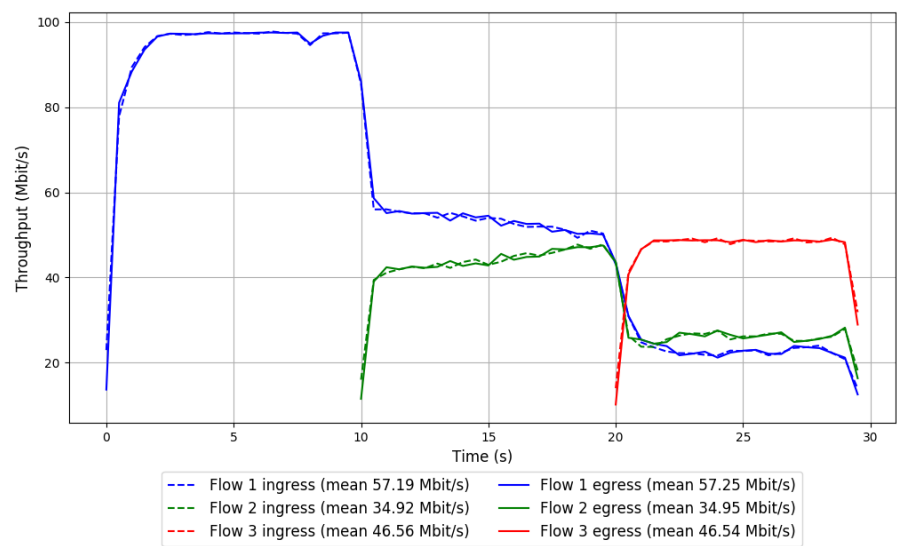Run 2: Report of Indigo-1-32 — Data Link

267

```
Run 3: Statistics of Indigo-1-32

Start at: 2018-03-21 00:59:01
End at: 2018-03-21 00:59:31
Local clock offset: 0.538 ms
Remote clock offset: -3.612 ms

# Below is generated by plot.py at 2018-03-21 09:05:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 49.694 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 49.103 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 34.95 Mbit/s
95th percentile per-packet one-way delay: 55.854 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 46.54 Mbit/s
95th percentile per-packet one-way delay: 45.151 ms
Loss rate: 0.75%
```

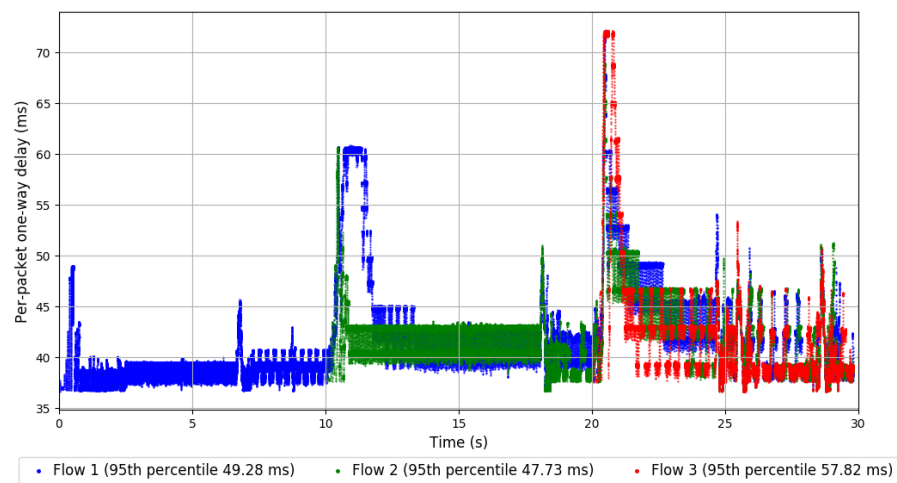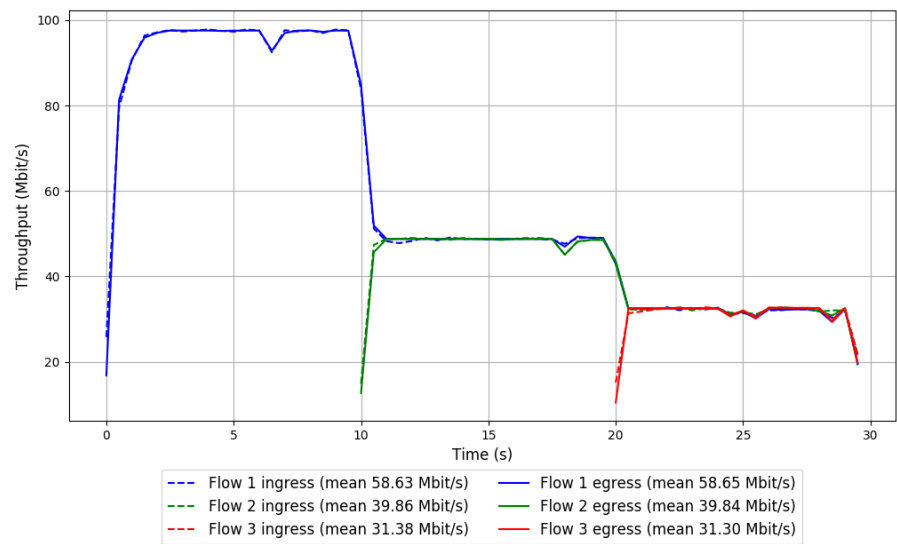Run 3: Report of Indigo-1-32 — Data Link

269

```
Run 4: Statistics of Indigo-1-32

Start at: 2018-03-21 01:23:53
End at: 2018-03-21 01:24:23
Local clock offset: -0.336 ms
Remote clock offset: -2.622 ms


# Below is generated by plot.py at 2018-03-21 09:06:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 49.403 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 49.276 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 47.735 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 31.30 Mbit/s
95th percentile per-packet one-way delay: 57.819 ms
Loss rate: 0.95%
```

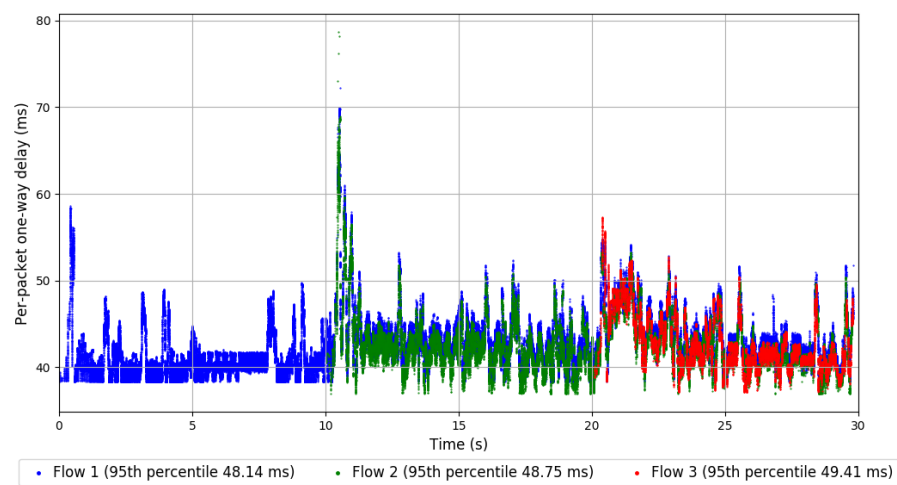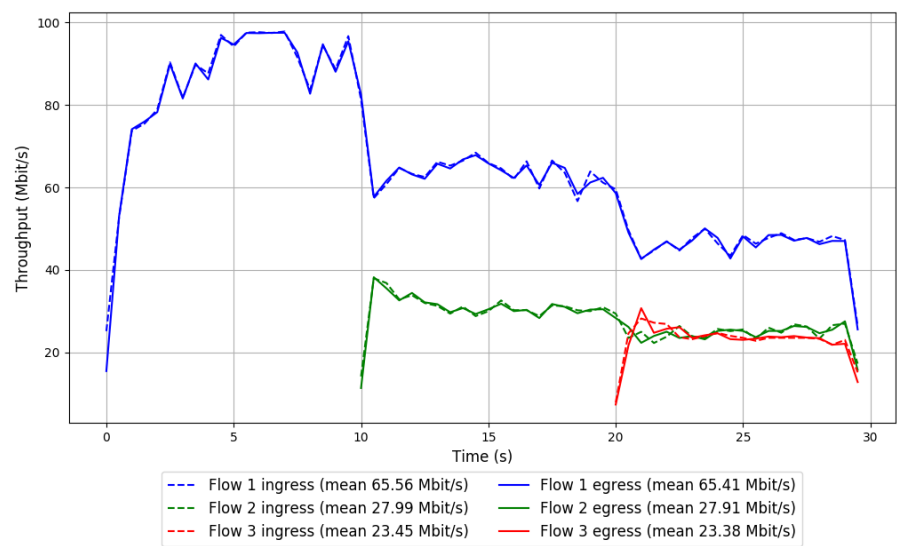Run 4: Report of Indigo-1-32 — Data Link

```
Run 5: Statistics of Indigo-1-32

Start at: 2018-03-21 01:48:45
End at: 2018-03-21 01:49:15
Local clock offset: -0.556 ms
Remote clock offset: -2.914 ms


# Below is generated by plot.py at 2018-03-21 09:06:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.54 Mbit/s
95th percentile per-packet one-way delay: 48.423 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 65.41 Mbit/s
95th percentile per-packet one-way delay: 48.139 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 27.91 Mbit/s
95th percentile per-packet one-way delay: 48.750 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 49.415 ms
Loss rate: 0.99%
```

Run 5: Report of Indigo-1-32 — Data Link

```
Run 6: Statistics of Indigo-1-32

Start at: 2018-03-21 02:14:01
End at: 2018-03-21 02:14:31
Local clock offset: -0.545 ms
Remote clock offset: -6.89 ms


# Below is generated by plot.py at 2018-03-21 09:06:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 49.389 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 59.64 Mbit/s
95th percentile per-packet one-way delay: 48.469 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 34.69 Mbit/s
95th percentile per-packet one-way delay: 50.355 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 52.647 ms
Loss rate: 0.90%
```
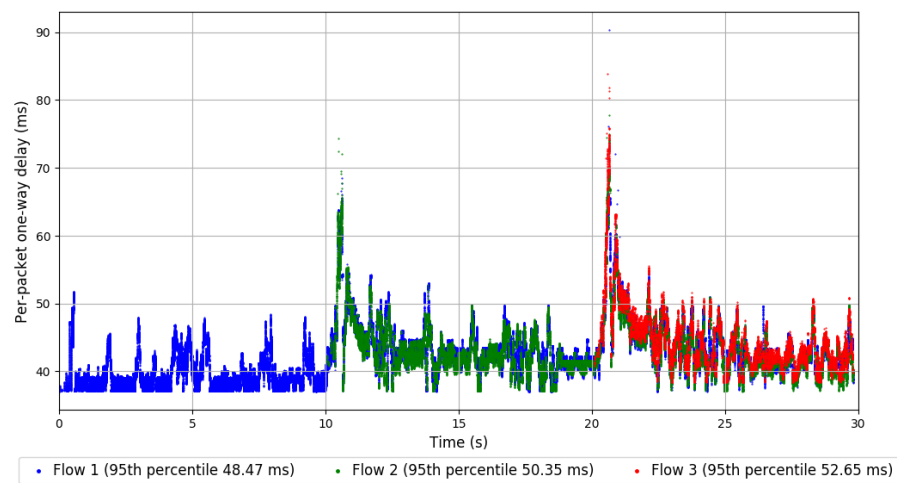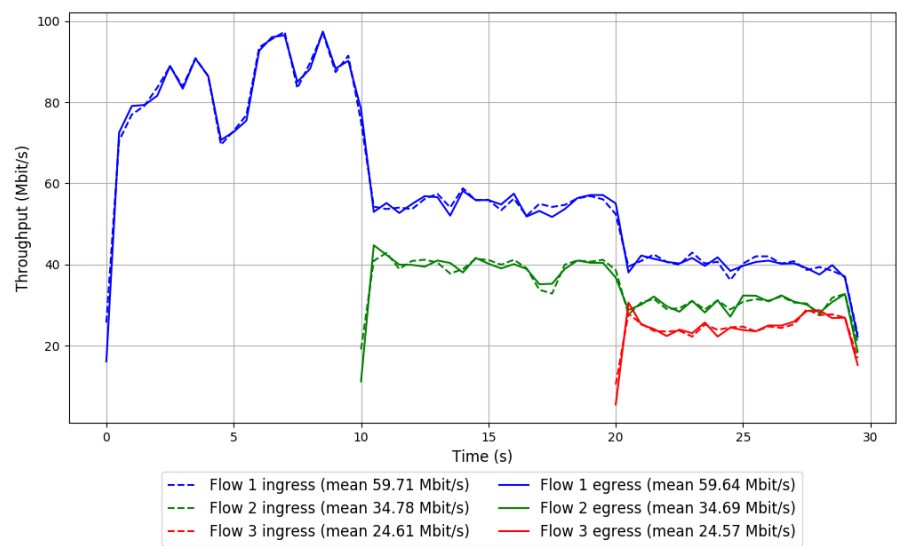
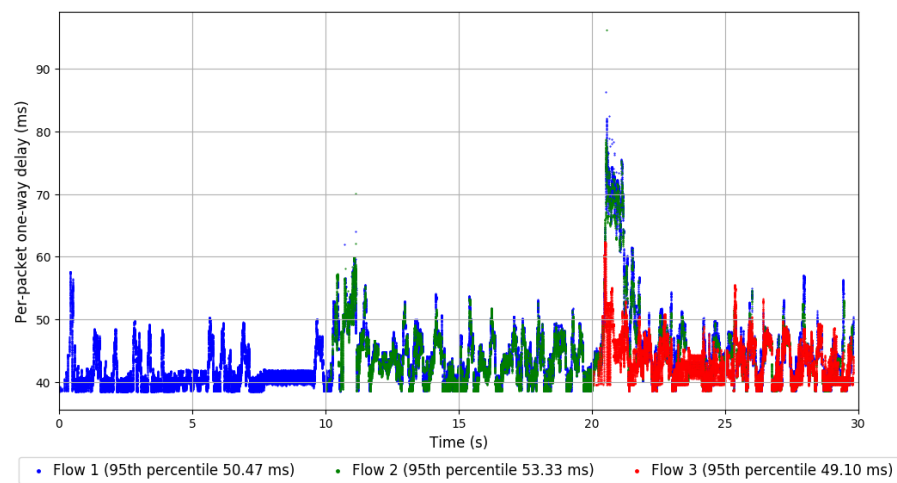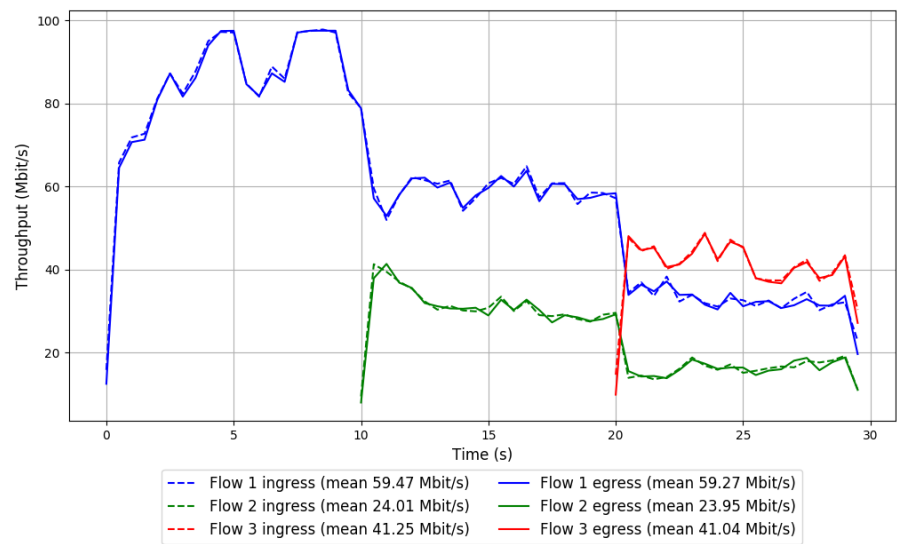Run 6: Report of Indigo-1-32 — Data Link

275

```
Run 7: Statistics of Indigo-1-32

Start at: 2018-03-21 02:39:45
End at: 2018-03-21 02:40:15
Local clock offset: -0.26 ms
Remote clock offset: -7.721 ms


# Below is generated by plot.py at 2018-03-21 09:06:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 50.746 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 59.27 Mbit/s
95th percentile per-packet one-way delay: 50.466 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 23.95 Mbit/s
95th percentile per-packet one-way delay: 53.330 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 41.04 Mbit/s
95th percentile per-packet one-way delay: 49.105 ms
Loss rate: 1.20%
```
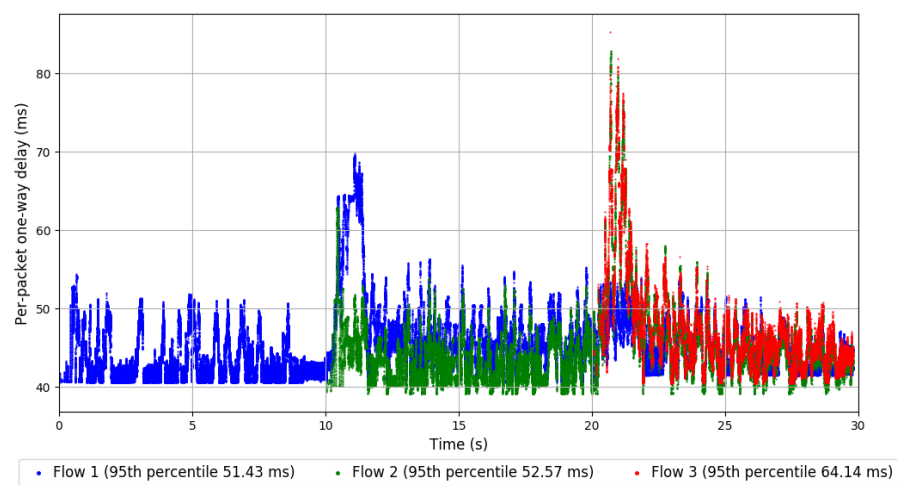
Run 7: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 59.47 Mbit/s) — — — Flow 1 egress (mean 59.27 Mbit/s)
Flow 2 ingress (mean 24.01 Mbit/s) — — — Flow 2 egress (mean 23.95 Mbit/s)
Flow 3 ingress (mean 41.25 Mbit/s) — — — Flow 3 egress (mean 41.04 Mbit/s)

Flow 1 (95th percentile 50.47 ms)   Flow 2 (95th percentile 53.33 ms)   Flow 3 (95th percentile 49.10 ms)
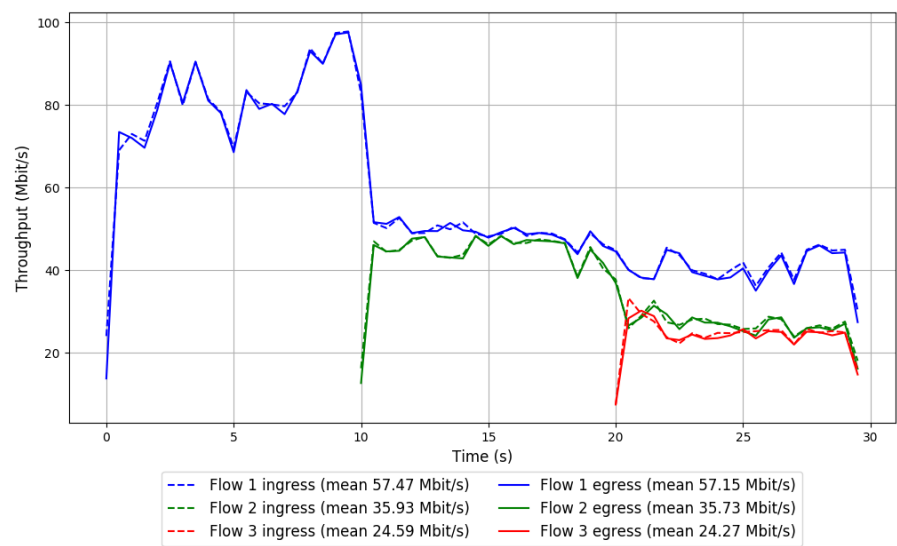
```
Run 8: Statistics of Indigo-1-32

Start at: 2018-03-21 03:05:14
End at: 2018-03-21 03:05:44
Local clock offset: -0.303 ms
Remote clock offset: -9.128 ms


# Below is generated by plot.py at 2018-03-21 09:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.80 Mbit/s
95th percentile per-packet one-way delay: 52.589 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 57.15 Mbit/s
95th percentile per-packet one-way delay: 51.433 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 52.573 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 64.137 ms
Loss rate: 2.00%
```
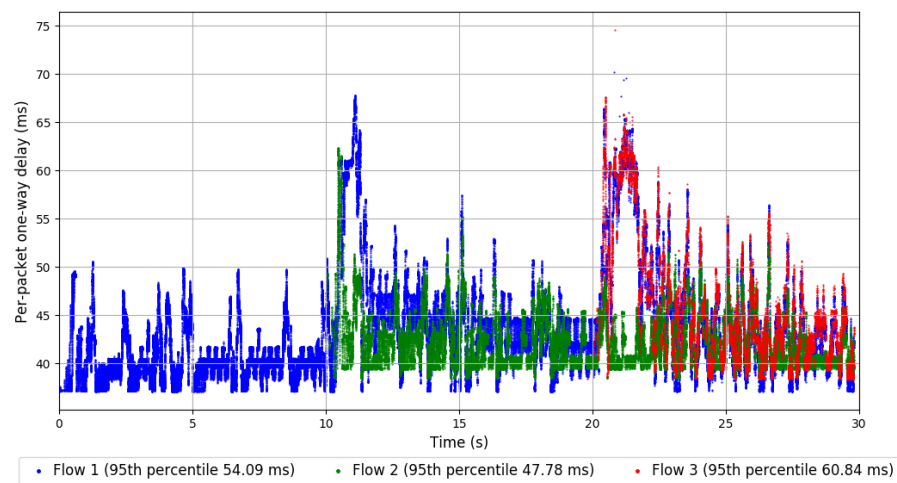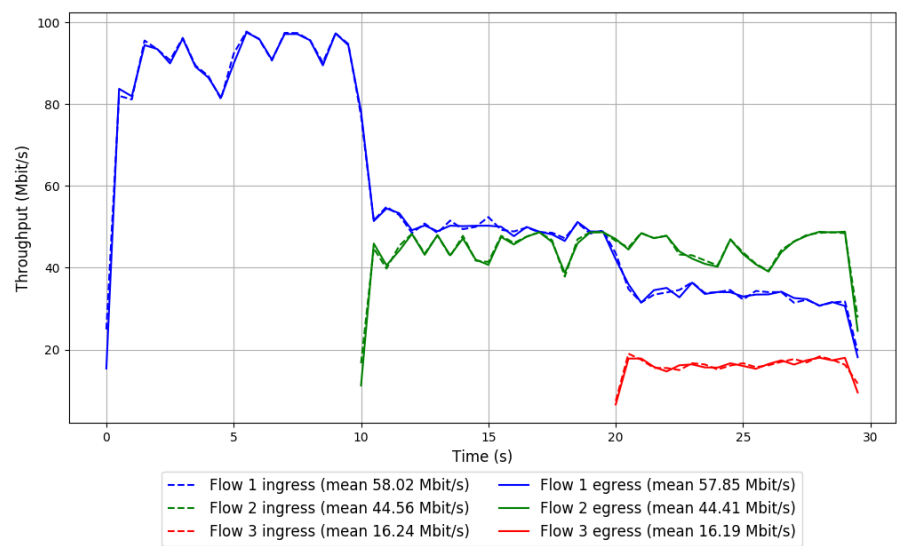
Run 8: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 57.47 Mbit/s) --- Flow 1 egress (mean 57.15 Mbit/s)
Flow 2 ingress (mean 35.93 Mbit/s) --- Flow 2 egress (mean 35.73 Mbit/s)
Flow 3 ingress (mean 24.59 Mbit/s) --- Flow 3 egress (mean 24.27 Mbit/s)

Flow 1 (95th percentile 51.43 ms) Flow 2 (95th percentile 52.57 ms) Flow 3 (95th percentile 64.14 ms)

279

```
Run 9: Statistics of Indigo-1-32

Start at: 2018-03-21 03:31:43
End at: 2018-03-21 03:32:13
Local clock offset: -0.19 ms
Remote clock offset: -7.338 ms


# Below is generated by plot.py at 2018-03-21 09:07:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 51.918 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 57.85 Mbit/s
95th percentile per-packet one-way delay: 54.085 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 44.41 Mbit/s
95th percentile per-packet one-way delay: 47.785 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 16.19 Mbit/s
95th percentile per-packet one-way delay: 60.843 ms
Loss rate: 1.05%
```

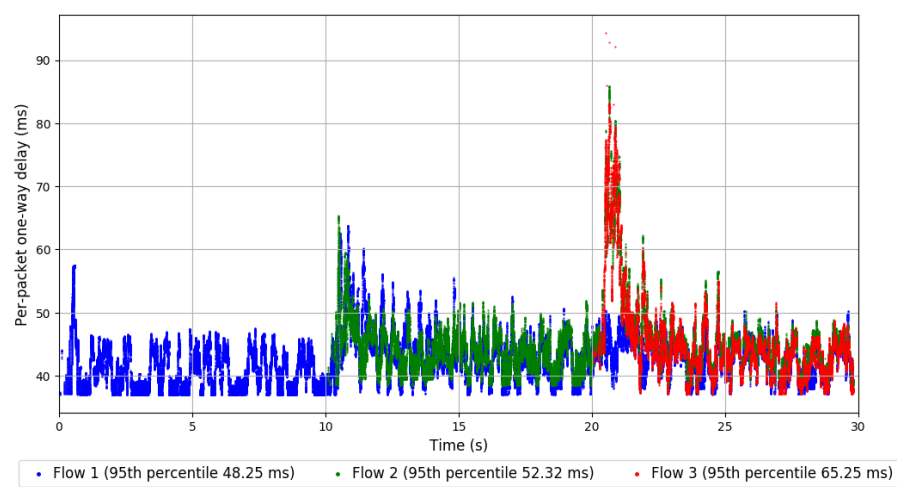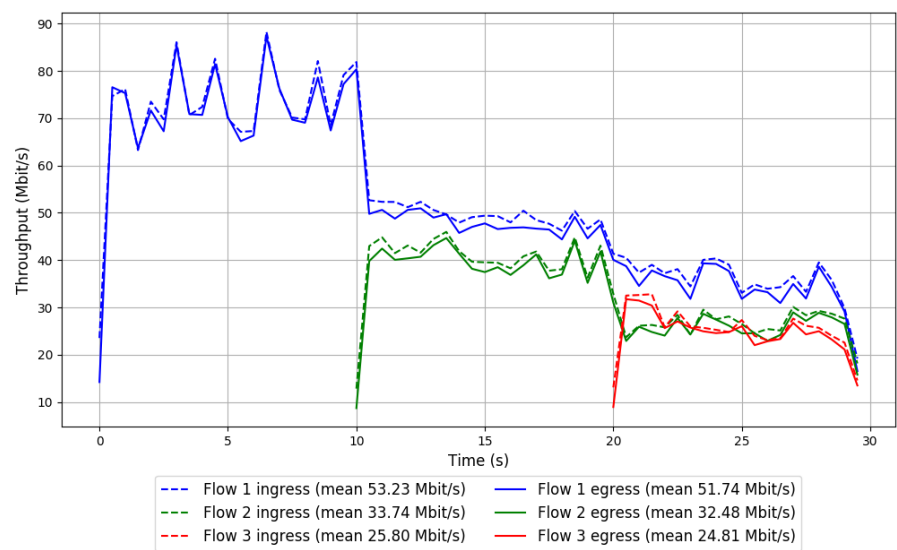Run 9: Report of Indigo-1-32 — Data Link

```
Run 10: Statistics of Indigo-1-32

Start at: 2018-03-21 03:58:27
End at: 2018-03-21 03:58:57
Local clock offset: -0.025 ms
Remote clock offset: -4.009 ms


# Below is generated by plot.py at 2018-03-21 09:07:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 50.358 ms
Loss rate: 3.40%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 48.247 ms
Loss rate: 2.94%
-- Flow 2:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 52.316 ms
Loss rate: 4.05%
-- Flow 3:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 65.246 ms
Loss rate: 4.53%
```

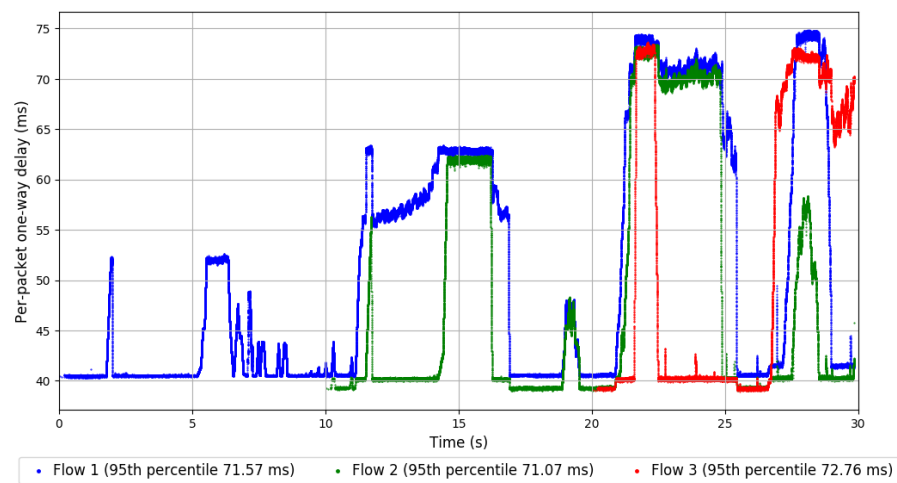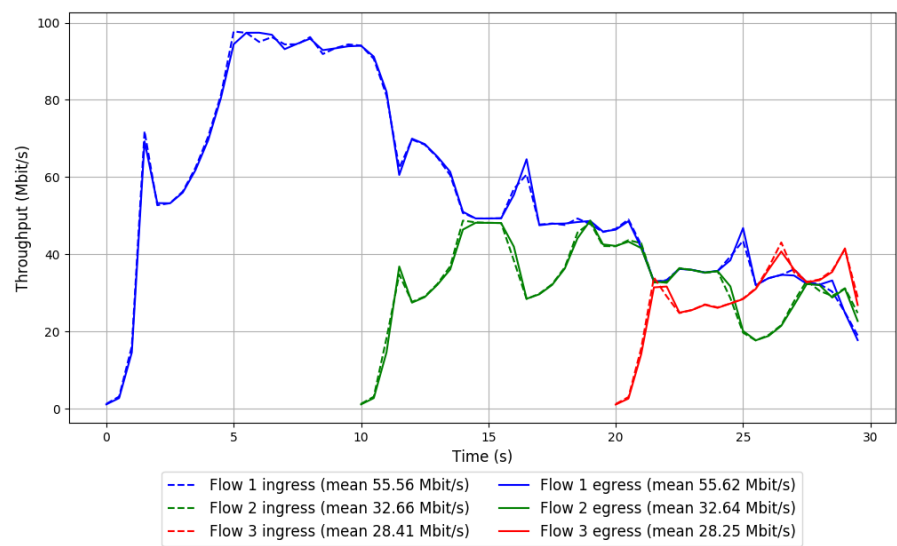Run 10: Report of Indigo-1-32 — Data Link

```
Run 1: Statistics of Vivace-latency

Start at: 2018-03-20 23:56:37
End at: 2018-03-20 23:57:07
Local clock offset: -0.472 ms
Remote clock offset: -6.022 ms


# Below is generated by plot.py at 2018-03-21 09:07:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.58 Mbit/s
95th percentile per-packet one-way delay: 72.271 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 55.62 Mbit/s
95th percentile per-packet one-way delay: 71.568 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 71.072 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 28.25 Mbit/s
95th percentile per-packet one-way delay: 72.762 ms
Loss rate: 1.28%
```

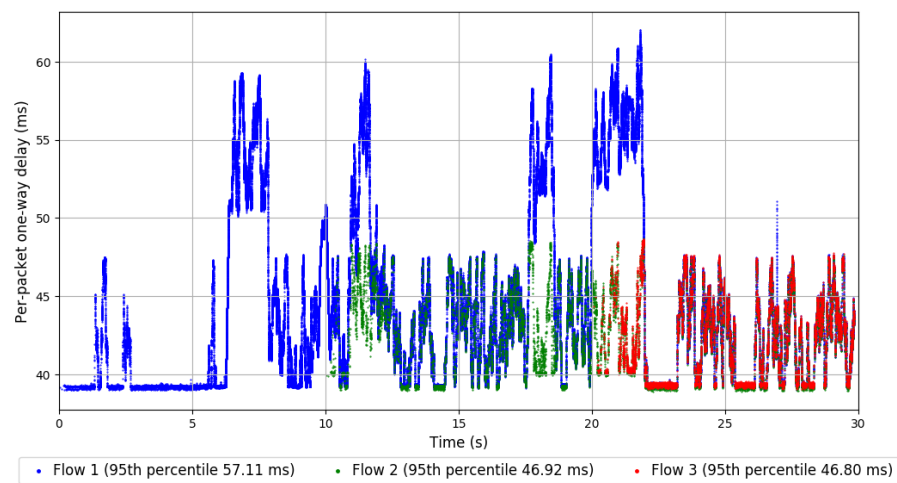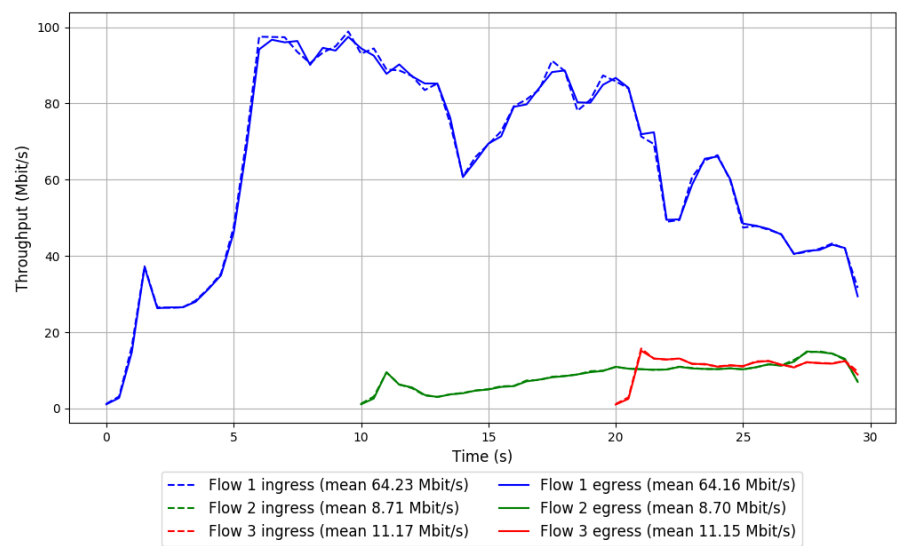# Run 1: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 55.56 Mbit/s)   Flow 1 egress (mean 55.62 Mbit/s)
Flow 2 ingress (mean 32.66 Mbit/s)   Flow 2 egress (mean 32.64 Mbit/s)
Flow 3 ingress (mean 28.41 Mbit/s)   Flow 3 egress (mean 28.25 Mbit/s)

Flow 1 (95th percentile 71.57 ms)   Flow 2 (95th percentile 71.07 ms)   Flow 3 (95th percentile 72.76 ms)

```
Run 2: Statistics of Vivace-latency

Start at: 2018-03-21 00:21:38
End at: 2018-03-21 00:22:08
Local clock offset: 0.03 ms
Remote clock offset: -7.289 ms


# Below is generated by plot.py at 2018-03-21 09:07:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.59 Mbit/s
95th percentile per-packet one-way delay: 56.803 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 64.16 Mbit/s
95th percentile per-packet one-way delay: 57.106 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 46.917 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 46.799 ms
Loss rate: 0.96%
```

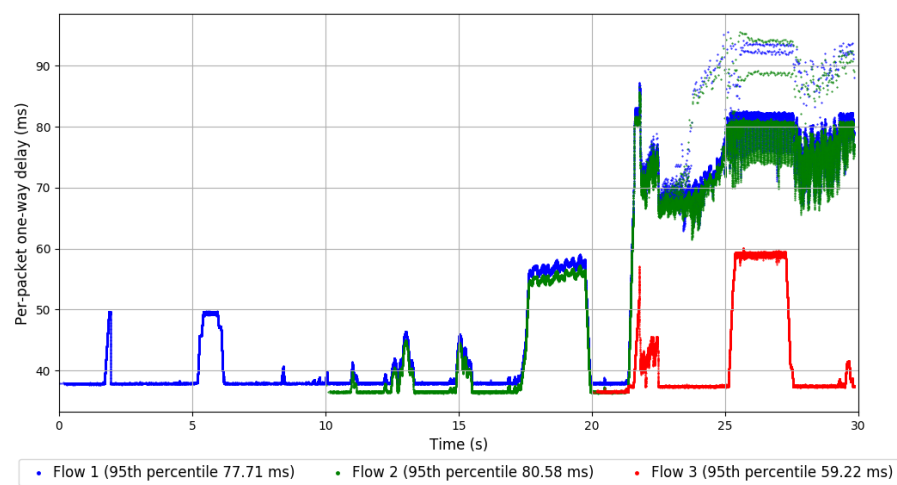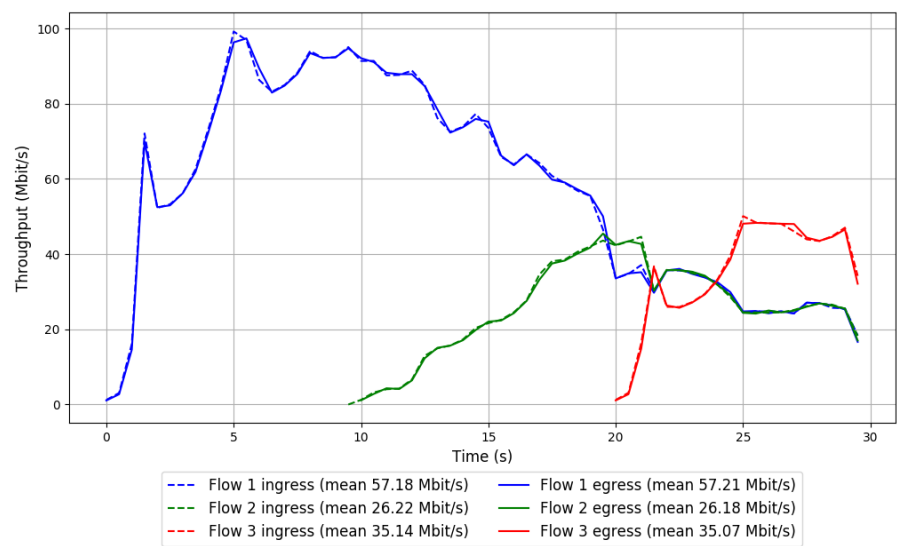Run 2: Report of Vivace-latency — Data Link

```
Run 3: Statistics of Vivace-latency

Start at: 2018-03-21 00:46:46
End at: 2018-03-21 00:47:16
Local clock offset: 0.481 ms
Remote clock offset: -6.212 ms


# Below is generated by plot.py at 2018-03-21 09:07:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 78.977 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 77.706 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 26.18 Mbit/s
95th percentile per-packet one-way delay: 80.585 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 59.217 ms
Loss rate: 0.87%
```

Run 3: Report of Vivace-latency — Data Link

```
Run 4: Statistics of Vivace-latency

Start at: 2018-03-21 01:11:37
End at: 2018-03-21 01:12:07
Local clock offset: -0.033 ms
Remote clock offset: -5.03 ms


# Below is generated by plot.py at 2018-03-21 09:08:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.10 Mbit/s
95th percentile per-packet one-way delay: 70.287 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 57.10 Mbit/s
95th percentile per-packet one-way delay: 68.995 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 23.77 Mbit/s
95th percentile per-packet one-way delay: 75.283 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 46.988 ms
Loss rate: 0.87%
```
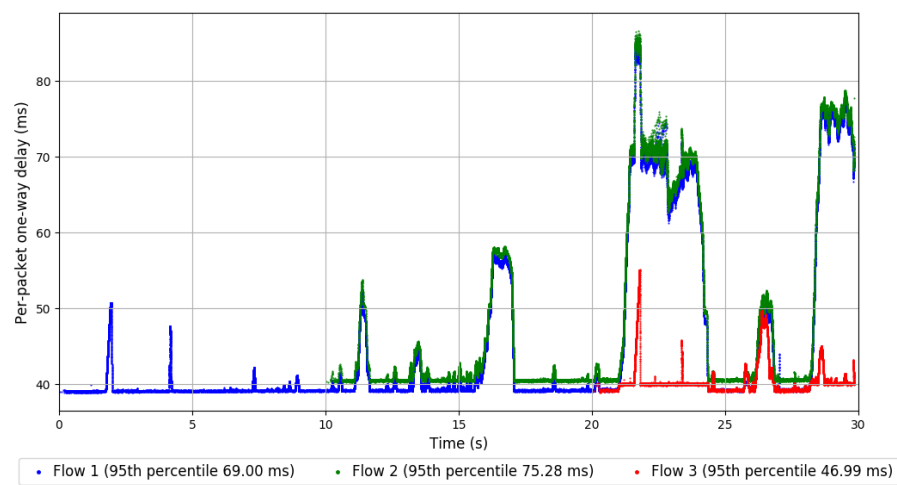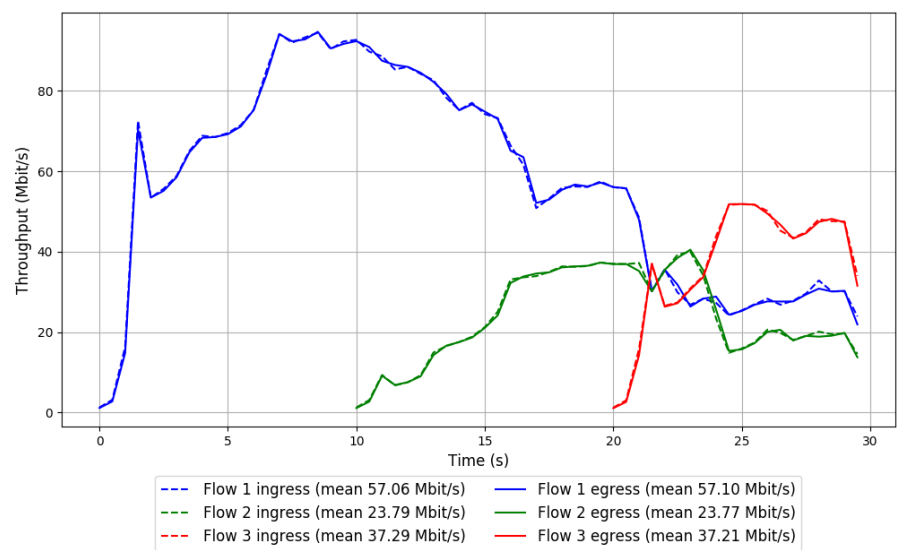
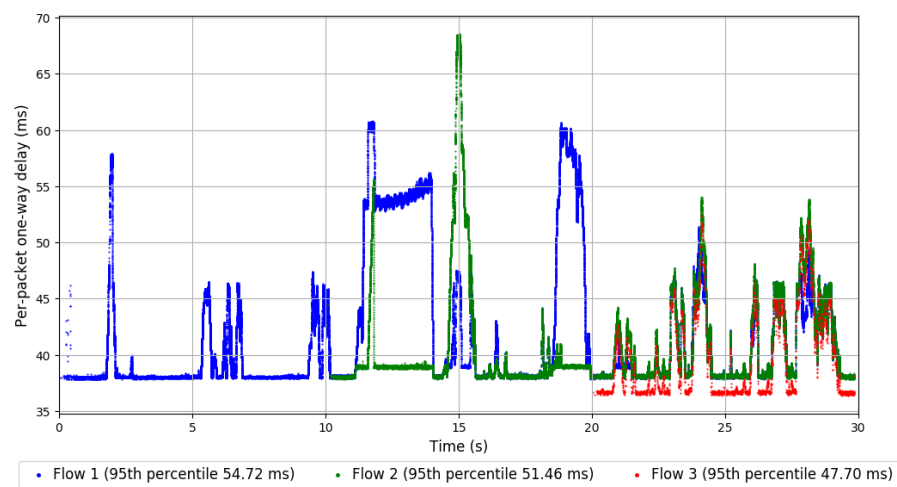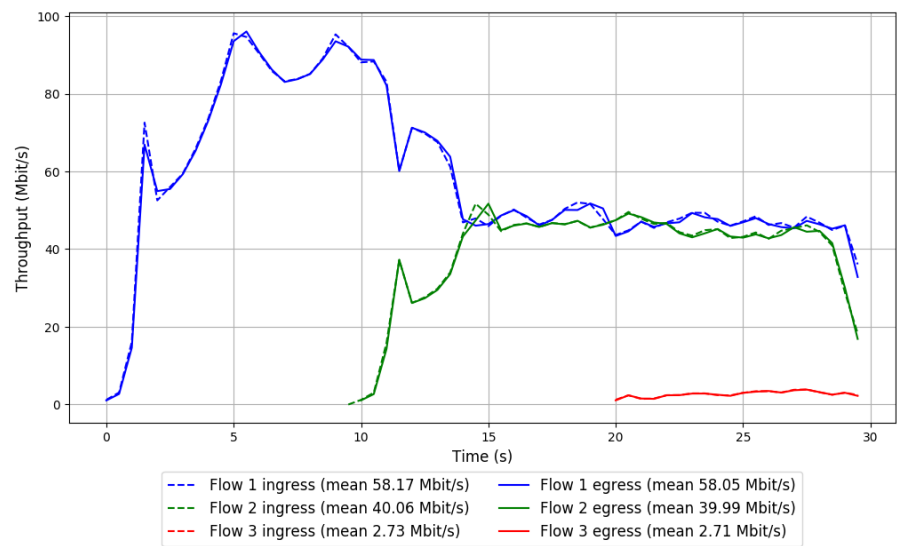Run 4: Report of Vivace-latency — Data Link

```
Run 5: Statistics of Vivace-latency

Start at: 2018-03-21 01:36:30
End at: 2018-03-21 01:37:00
Local clock offset: -0.575 ms
Remote clock offset: -2.173 ms


# Below is generated by plot.py at 2018-03-21 09:08:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 54.325 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 58.05 Mbit/s
95th percentile per-packet one-way delay: 54.723 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 51.457 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 47.702 ms
Loss rate: 1.27%
```

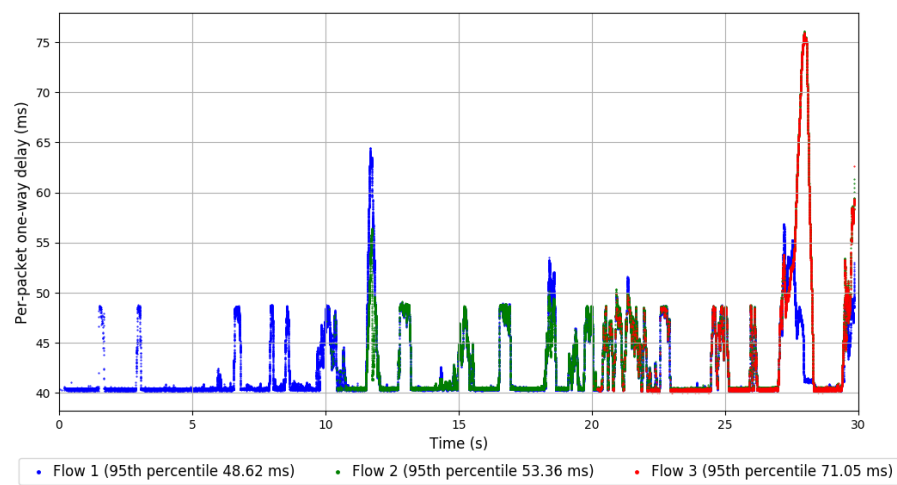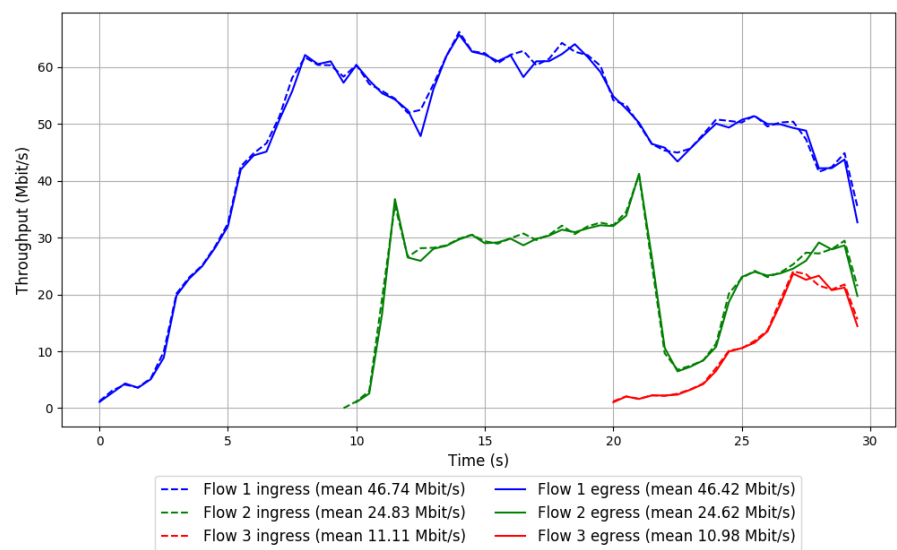## Run 5: Report of Vivace-latency — Data Link

```
Run 6: Statistics of Vivace-latency

Start at: 2018-03-21 02:01:25
End at: 2018-03-21 02:01:55
Local clock offset: -0.647 ms
Remote clock offset: -6.309 ms


# Below is generated by plot.py at 2018-03-21 09:08:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.38 Mbit/s
95th percentile per-packet one-way delay: 50.888 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 46.42 Mbit/s
95th percentile per-packet one-way delay: 48.623 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 53.360 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 10.98 Mbit/s
95th percentile per-packet one-way delay: 71.054 ms
Loss rate: 1.76%
```

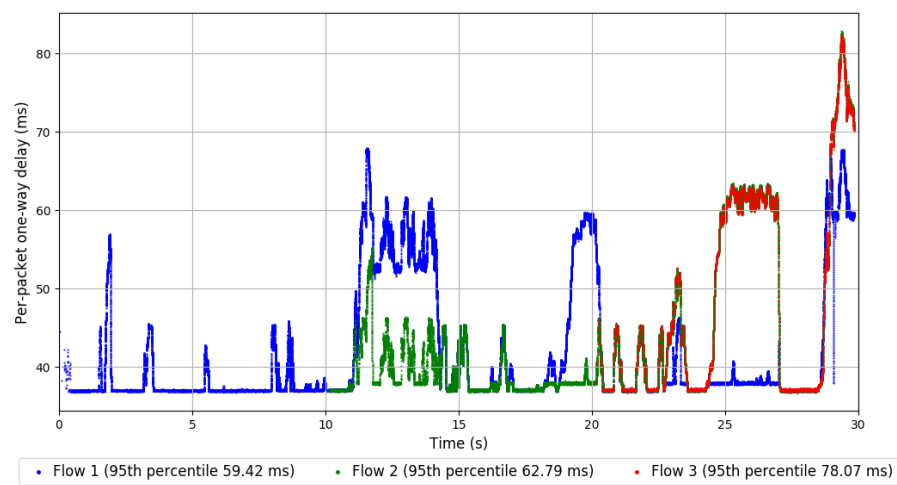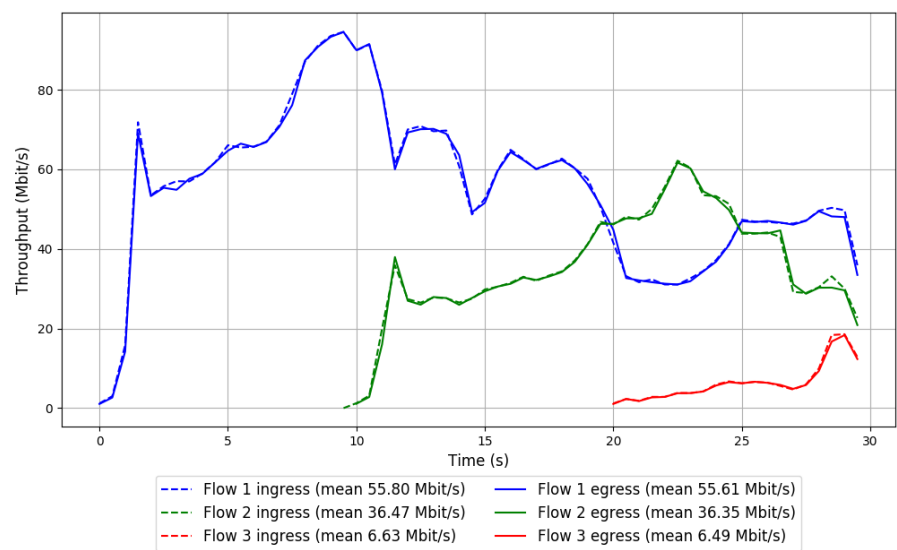Run 6: Report of Vivace-latency — Data Link

```
Run 7: Statistics of Vivace-latency

Start at: 2018-03-21 02:27:14
End at: 2018-03-21 02:27:44
Local clock offset: -0.393 ms
Remote clock offset: -8.672 ms


# Below is generated by plot.py at 2018-03-21 09:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.90 Mbit/s
95th percentile per-packet one-way delay: 61.618 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 55.61 Mbit/s
95th percentile per-packet one-way delay: 59.417 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 62.789 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 78.068 ms
Loss rate: 2.77%
```

Run 7: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 55.80 Mbit/s) ---- Flow 1 egress (mean 55.61 Mbit/s) ——
Flow 2 ingress (mean 36.47 Mbit/s) ---- Flow 2 egress (mean 36.35 Mbit/s) ——
Flow 3 ingress (mean 6.63 Mbit/s) ---- Flow 3 egress (mean 6.49 Mbit/s) ——

Flow 1 (95th percentile 59.42 ms) · Flow 2 (95th percentile 62.79 ms) · Flow 3 (95th percentile 78.07 ms)
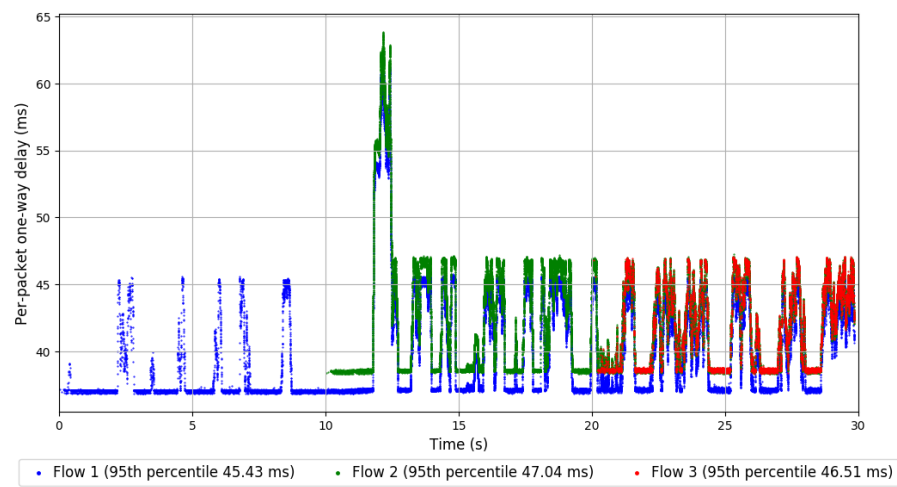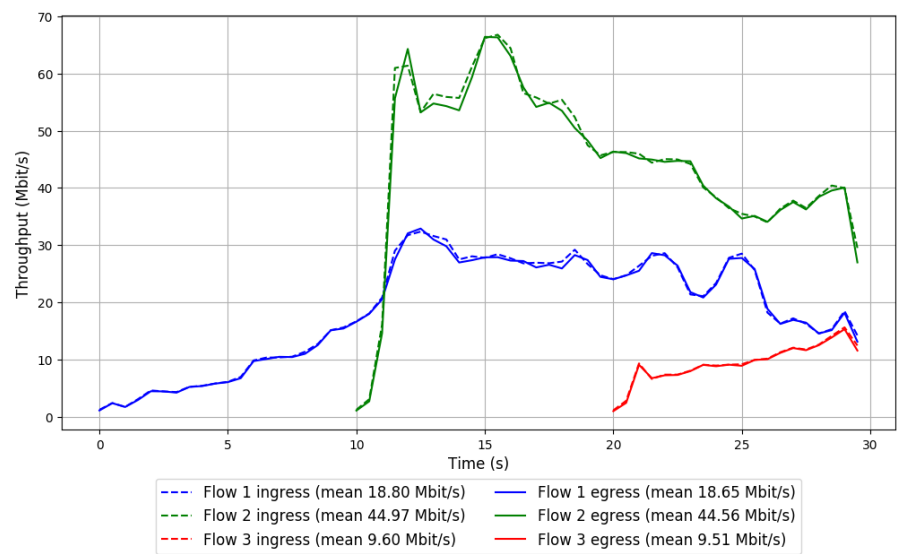
```
Run 8: Statistics of Vivace-latency

Start at: 2018-03-21 02:52:54
End at: 2018-03-21 02:53:24
Local clock offset: -0.373 ms
Remote clock offset: -6.904 ms


# Below is generated by plot.py at 2018-03-21 09:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.37 Mbit/s
95th percentile per-packet one-way delay: 46.860 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 18.65 Mbit/s
95th percentile per-packet one-way delay: 45.427 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 44.56 Mbit/s
95th percentile per-packet one-way delay: 47.037 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 46.512 ms
Loss rate: 1.71%
```

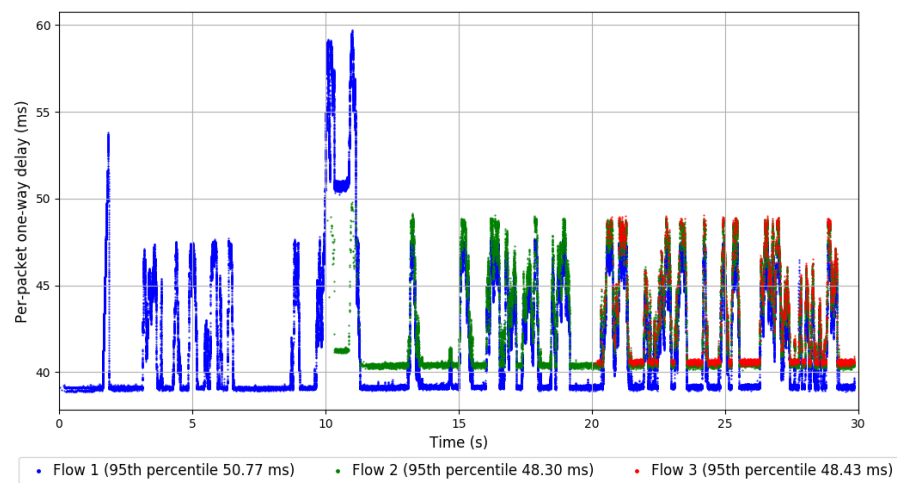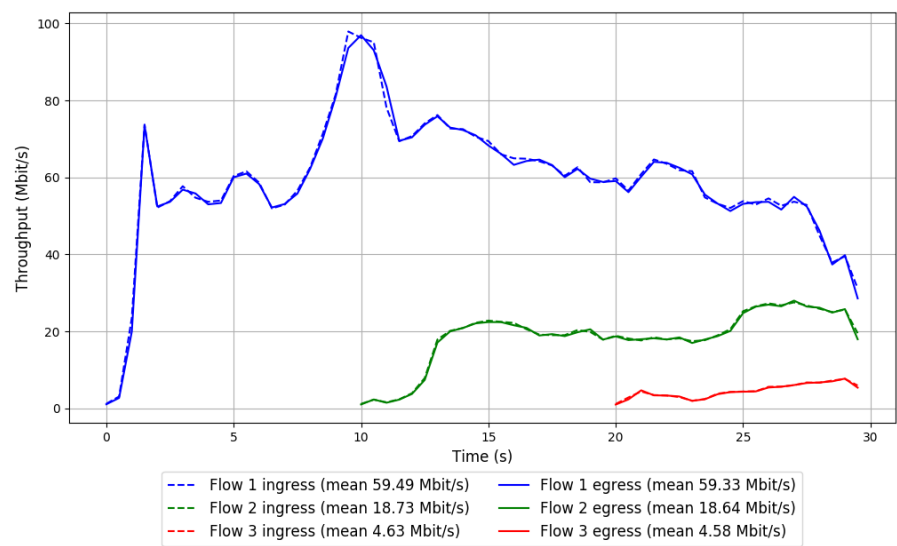Run 8: Report of Vivace-latency — Data Link

```
Run 9: Statistics of Vivace-latency

Start at: 2018-03-21 03:19:33
End at: 2018-03-21 03:20:03
Local clock offset: -0.414 ms
Remote clock offset: -9.073 ms


# Below is generated by plot.py at 2018-03-21 09:08:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.22 Mbit/s
95th percentile per-packet one-way delay: 50.557 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 59.33 Mbit/s
95th percentile per-packet one-way delay: 50.766 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 18.64 Mbit/s
95th percentile per-packet one-way delay: 48.304 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 48.426 ms
Loss rate: 1.65%
```

Run 9: Report of Vivace-latency — Data Link

- - - - Flow 1 ingress (mean 59.49 Mbit/s) ——— Flow 1 egress (mean 59.33 Mbit/s)
- - - - Flow 2 ingress (mean 18.73 Mbit/s) ——— Flow 2 egress (mean 18.64 Mbit/s)
- - - - Flow 3 ingress (mean 4.63 Mbit/s) ——— Flow 3 egress (mean 4.58 Mbit/s)

- Flow 1 (95th percentile 50.77 ms)   • Flow 2 (95th percentile 48.30 ms)   • Flow 3 (95th percentile 48.43 ms)
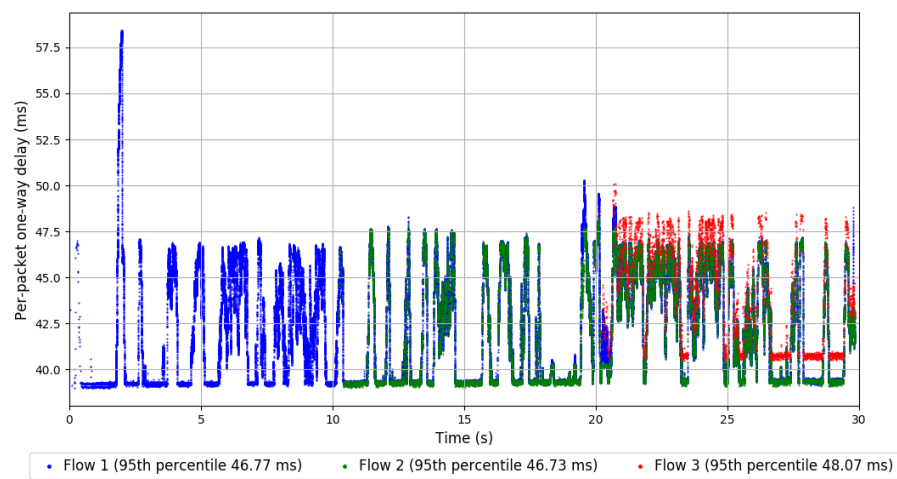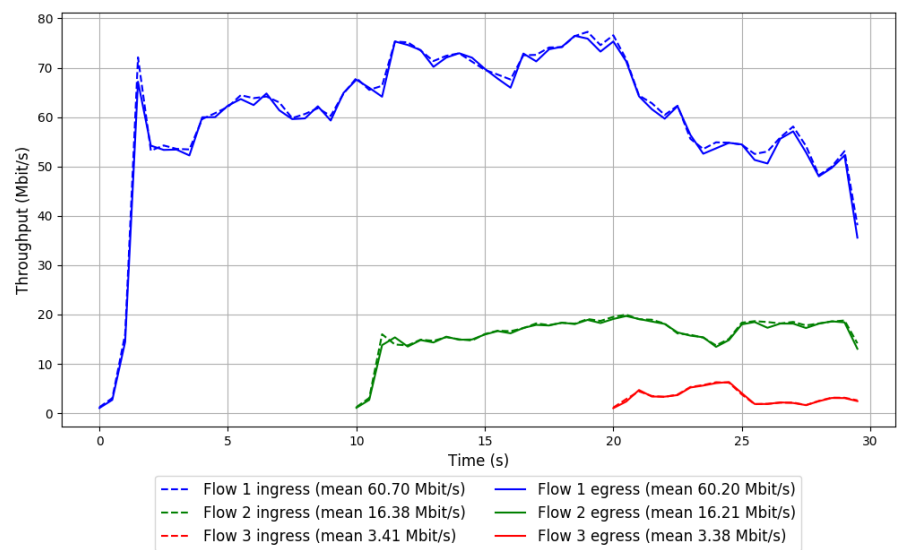
```
Run 10: Statistics of Vivace-latency

Start at: 2018-03-21 03:45:07
End at: 2018-03-21 03:45:37
Local clock offset: -0.241 ms
Remote clock offset: -8.362 ms


# Below is generated by plot.py at 2018-03-21 09:08:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 46.804 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 60.20 Mbit/s
95th percentile per-packet one-way delay: 46.766 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 16.21 Mbit/s
95th percentile per-packet one-way delay: 46.730 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 48.068 ms
Loss rate: 1.36%
```

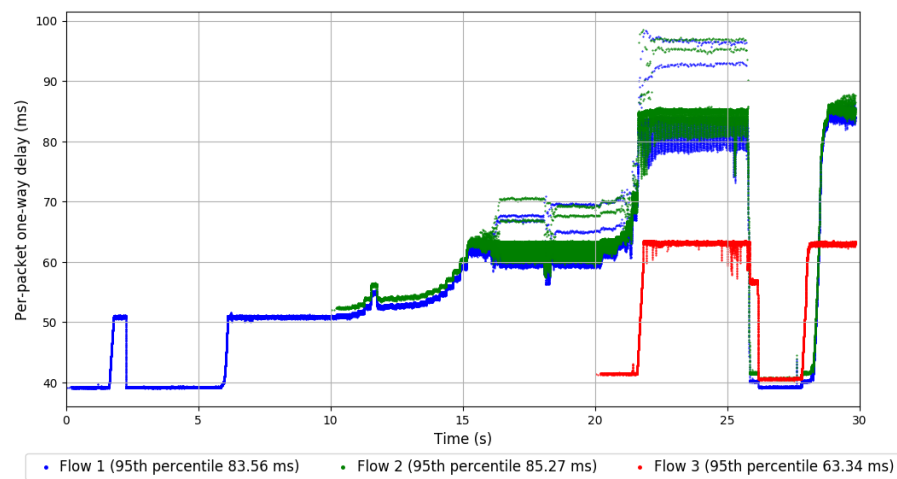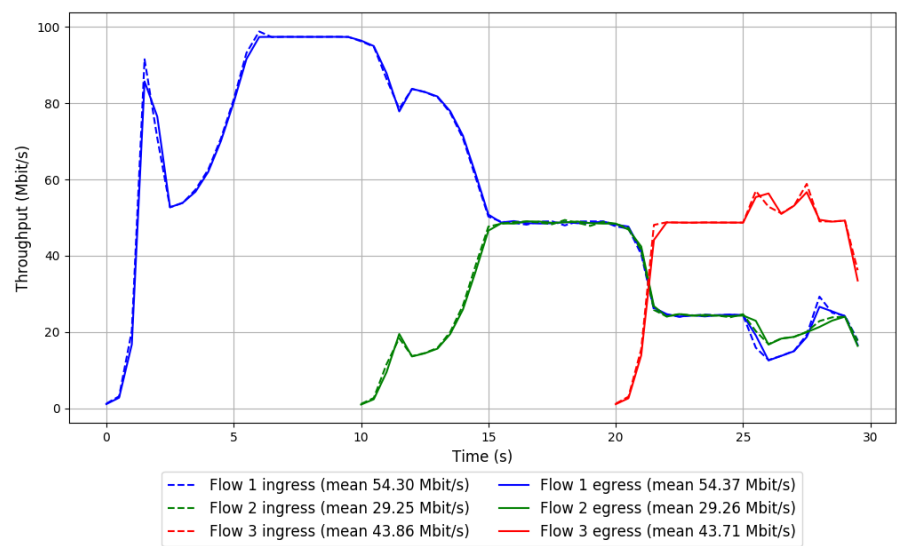Run 10: Report of Vivace-latency — Data Link

```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-21 00:06:10
End at: 2018-03-21 00:06:40
Local clock offset: -0.158 ms
Remote clock offset: -6.638 ms


# Below is generated by plot.py at 2018-03-21 09:08:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 83.862 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 54.37 Mbit/s
95th percentile per-packet one-way delay: 83.561 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 29.26 Mbit/s
95th percentile per-packet one-way delay: 85.266 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 43.71 Mbit/s
95th percentile per-packet one-way delay: 63.345 ms
Loss rate: 1.03%
```

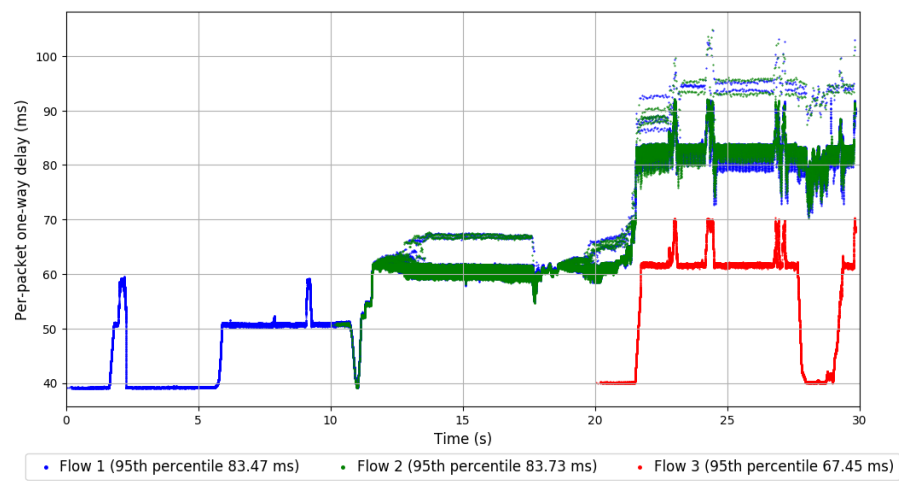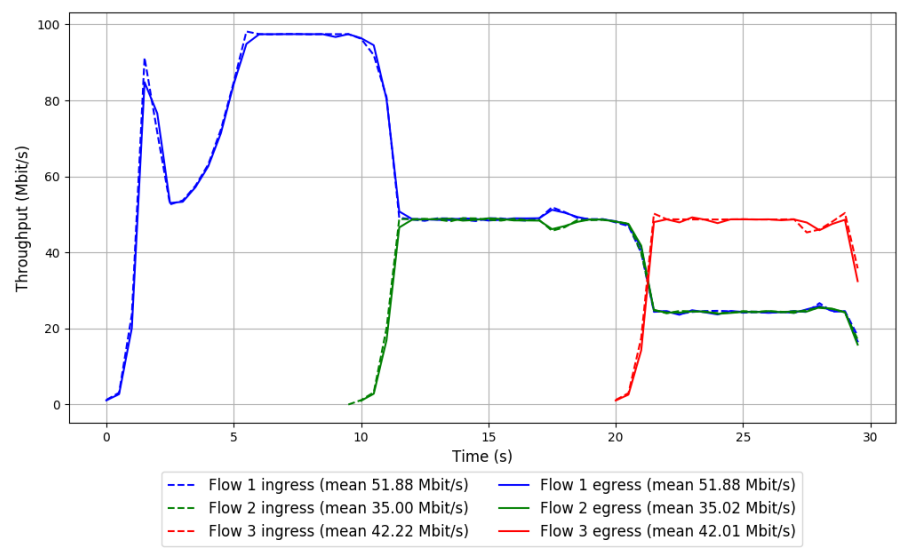Run 1: Report of Vivace-loss — Data Link

```
Run 2: Statistics of Vivace-loss

Start at: 2018-03-21 00:31:16
End at: 2018-03-21 00:31:46
Local clock offset: 0.11 ms
Remote clock offset: -7.498 ms


# Below is generated by plot.py at 2018-03-21 09:09:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.93 Mbit/s
95th percentile per-packet one-way delay: 83.513 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 51.88 Mbit/s
95th percentile per-packet one-way delay: 83.473 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 35.02 Mbit/s
95th percentile per-packet one-way delay: 83.733 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 42.01 Mbit/s
95th percentile per-packet one-way delay: 67.446 ms
Loss rate: 1.31%
```

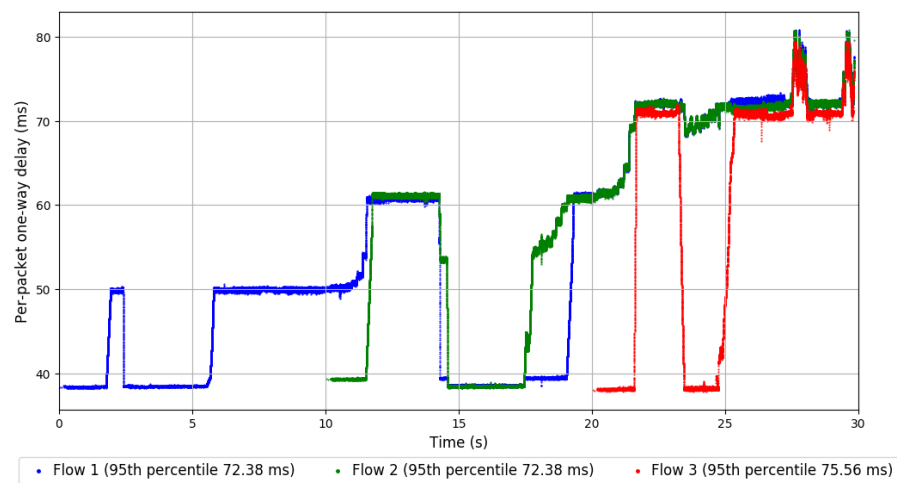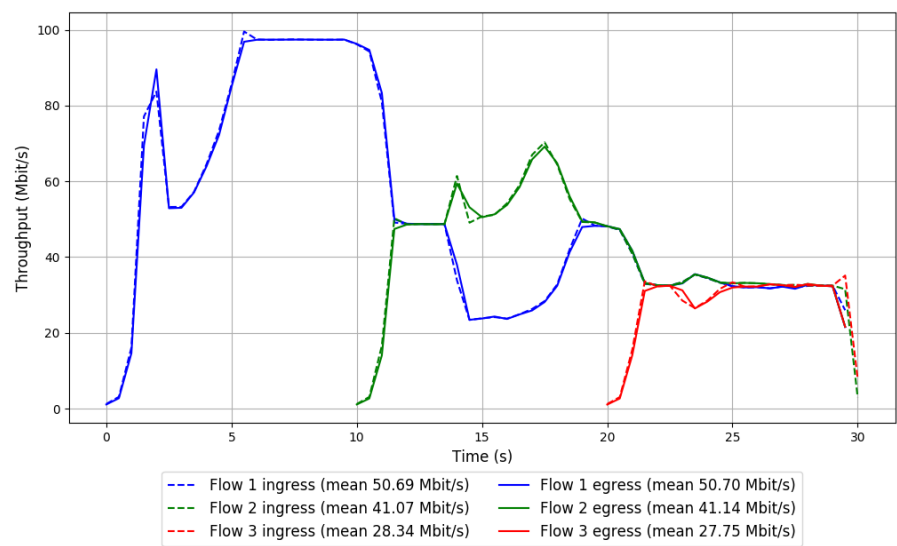Run 2: Report of Vivace-loss — Data Link

```
Run 3: Statistics of Vivace-loss

Start at: 2018-03-21 00:56:19
End at: 2018-03-21 00:56:49
Local clock offset: 0.513 ms
Remote clock offset: -4.797 ms


# Below is generated by plot.py at 2018-03-21 09:09:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.15 Mbit/s
95th percentile per-packet one-way delay: 72.432 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 50.70 Mbit/s
95th percentile per-packet one-way delay: 72.381 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 41.14 Mbit/s
95th percentile per-packet one-way delay: 72.378 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 27.75 Mbit/s
95th percentile per-packet one-way delay: 75.565 ms
Loss rate: 4.63%
```

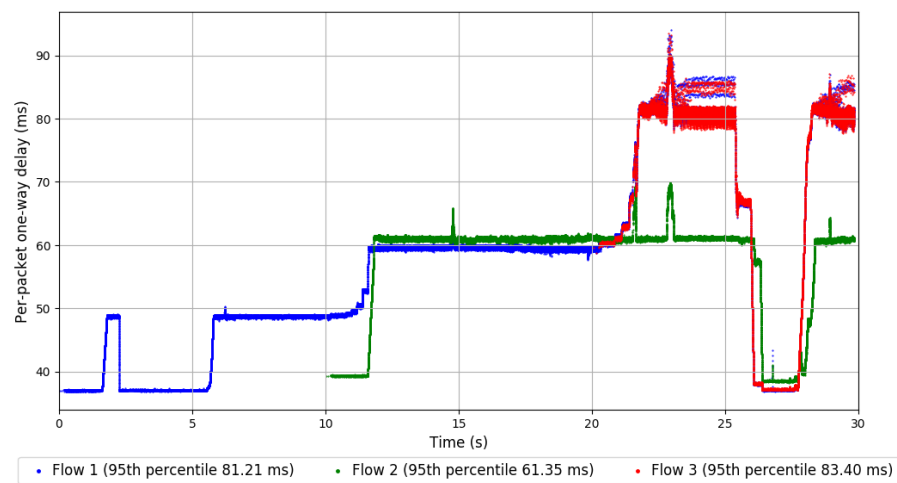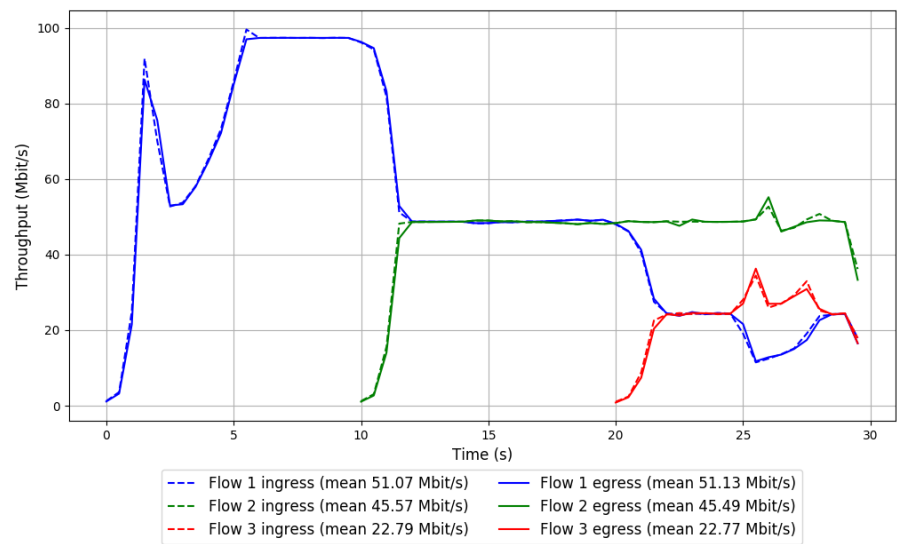Run 3: Report of Vivace-loss — Data Link

```
Run 4: Statistics of Vivace-loss

Start at: 2018-03-21 01:21:11
End at: 2018-03-21 01:21:41
Local clock offset: -0.359 ms
Remote clock offset: -3.021 ms


# Below is generated by plot.py at 2018-03-21 09:09:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 81.270 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 81.209 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 45.49 Mbit/s
95th percentile per-packet one-way delay: 61.354 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 22.77 Mbit/s
95th percentile per-packet one-way delay: 83.399 ms
Loss rate: 1.24%
```

Run 4: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 51.07 Mbit/s)   Flow 1 egress (mean 51.13 Mbit/s)
Flow 2 ingress (mean 45.57 Mbit/s)   Flow 2 egress (mean 45.49 Mbit/s)
Flow 3 ingress (mean 22.79 Mbit/s)   Flow 3 egress (mean 22.77 Mbit/s)

Flow 1 (95th percentile 81.21 ms)   Flow 2 (95th percentile 61.35 ms)   Flow 3 (95th percentile 83.40 ms)
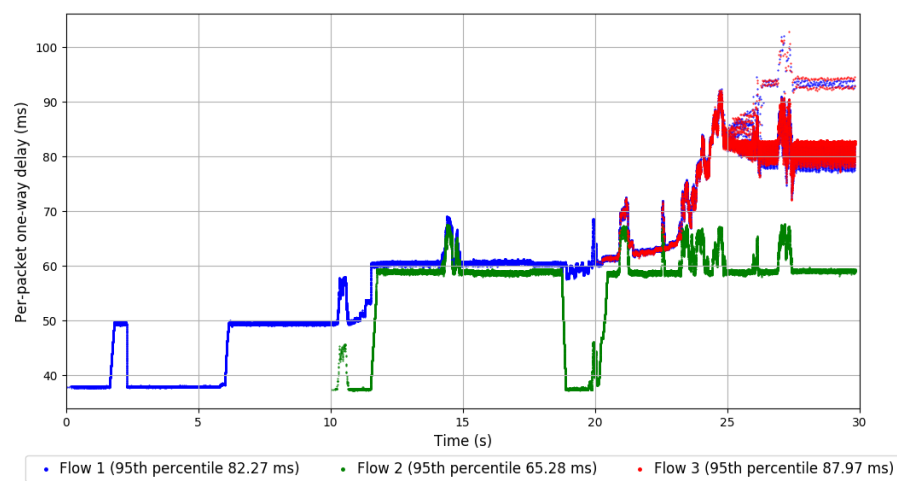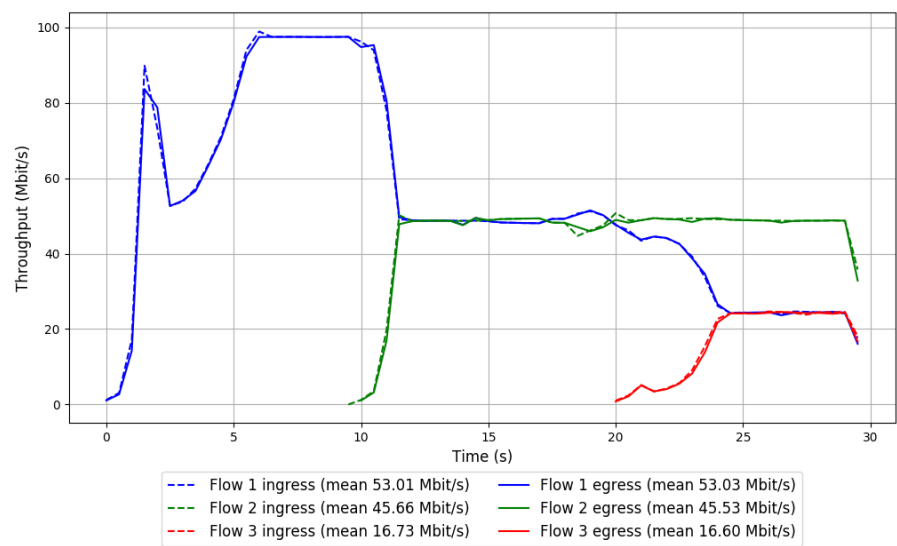
311

```
Run 5: Statistics of Vivace-loss

Start at: 2018-03-21 01:46:03
End at: 2018-03-21 01:46:33
Local clock offset: -0.569 ms
Remote clock offset: -2.336 ms


# Below is generated by plot.py at 2018-03-21 09:09:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.71 Mbit/s
95th percentile per-packet one-way delay: 82.436 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 53.03 Mbit/s
95th percentile per-packet one-way delay: 82.266 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 45.53 Mbit/s
95th percentile per-packet one-way delay: 65.284 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 16.60 Mbit/s
95th percentile per-packet one-way delay: 87.969 ms
Loss rate: 1.87%
```

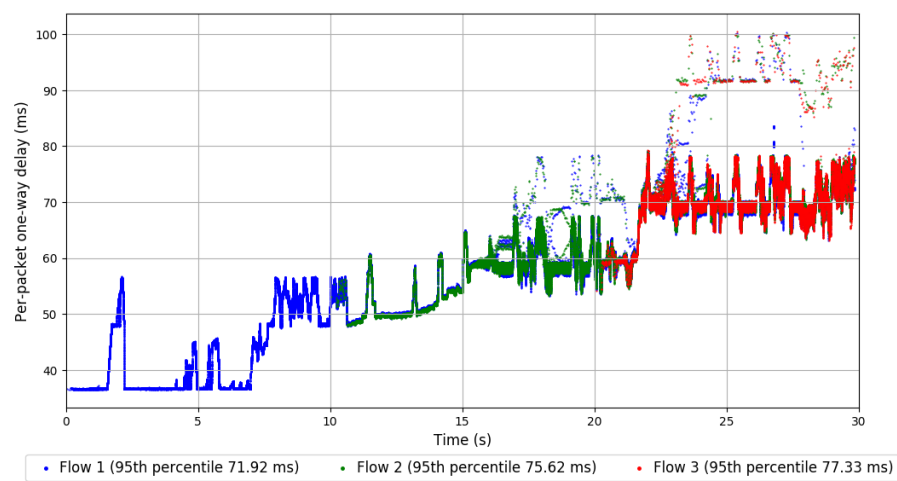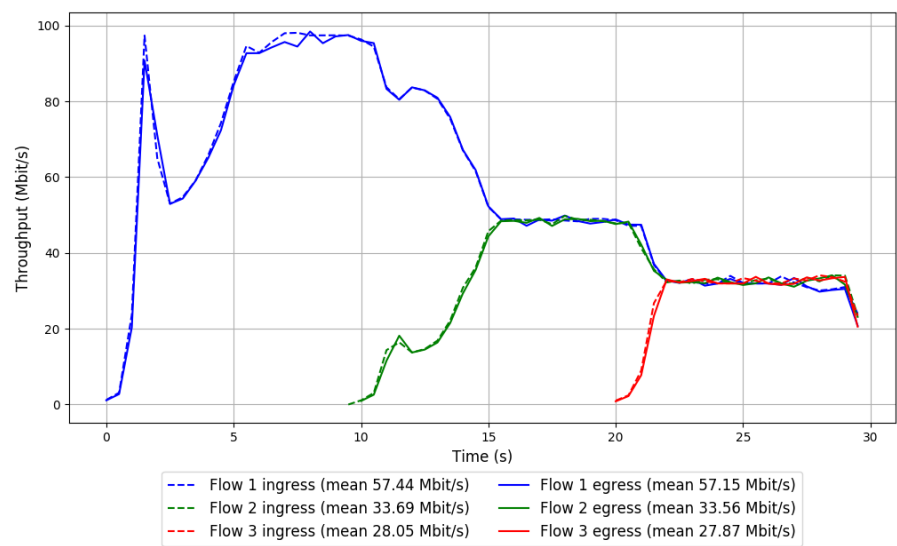Run 5: Report of Vivace-loss — Data Link

```
Run 6: Statistics of Vivace-loss

Start at: 2018-03-21 02:11:17
End at: 2018-03-21 02:11:47
Local clock offset: -0.664 ms
Remote clock offset: -6.042 ms


# Below is generated by plot.py at 2018-03-21 09:09:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.56 Mbit/s
95th percentile per-packet one-way delay: 74.539 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 57.15 Mbit/s
95th percentile per-packet one-way delay: 71.924 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 33.56 Mbit/s
95th percentile per-packet one-way delay: 75.624 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 27.87 Mbit/s
95th percentile per-packet one-way delay: 77.330 ms
Loss rate: 1.68%
```

Run 6: Report of Vivace-loss — Data Link

```
Run 7: Statistics of Vivace-loss

Start at: 2018-03-21 02:36:54
End at: 2018-03-21 02:37:24
Local clock offset: -0.257 ms
Remote clock offset: -7.74 ms


# Below is generated by plot.py at 2018-03-21 09:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.39 Mbit/s
95th percentile per-packet one-way delay: 77.485 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 57.49 Mbit/s
95th percentile per-packet one-way delay: 66.386 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 81.006 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 88.111 ms
Loss rate: 2.46%
```
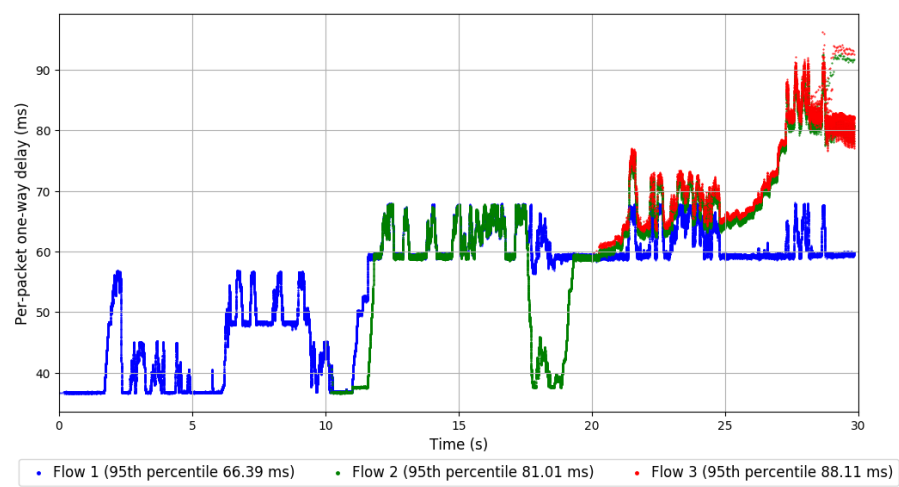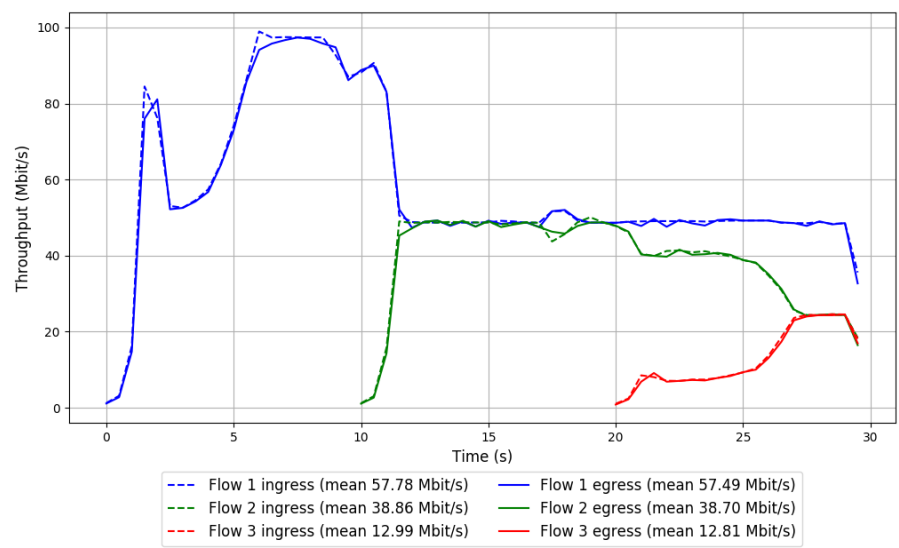
Run 7: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 57.78 Mbit/s)   Flow 1 egress (mean 57.49 Mbit/s)
Flow 2 ingress (mean 38.86 Mbit/s)   Flow 2 egress (mean 38.70 Mbit/s)
Flow 3 ingress (mean 12.99 Mbit/s)   Flow 3 egress (mean 12.81 Mbit/s)

Flow 1 (95th percentile 66.39 ms)   Flow 2 (95th percentile 81.01 ms)   Flow 3 (95th percentile 88.11 ms)
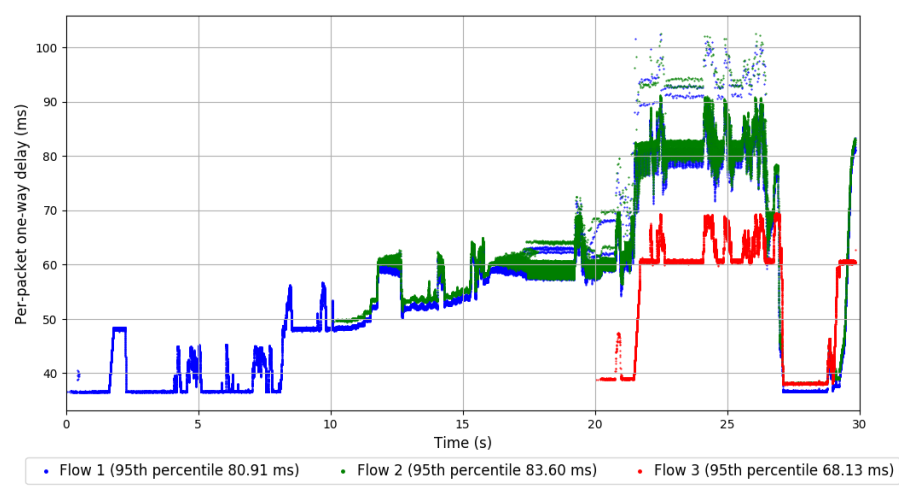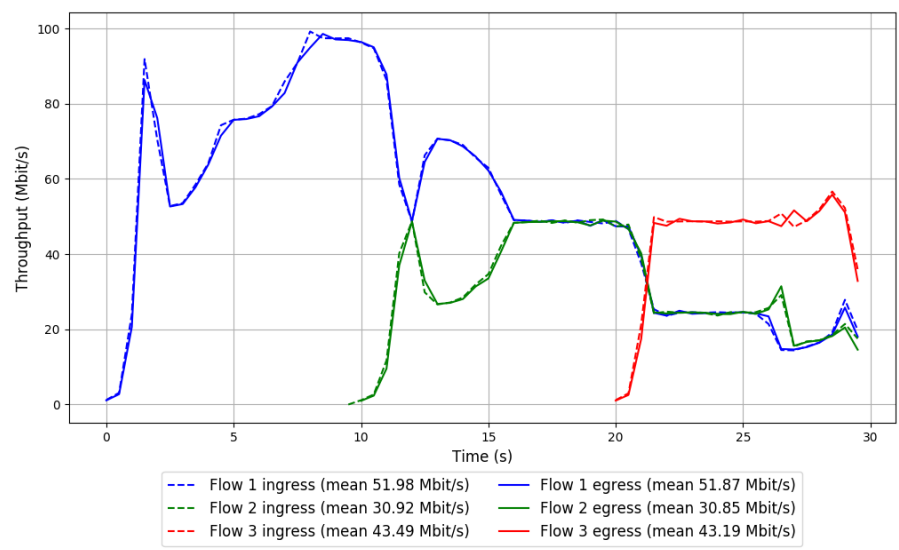
```
Run 8: Statistics of Vivace-loss

Start at: 2018-03-21 03:02:31
End at: 2018-03-21 03:03:01
Local clock offset: -0.308 ms
Remote clock offset: -6.553 ms


# Below is generated by plot.py at 2018-03-21 09:09:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 81.418 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 51.87 Mbit/s
95th percentile per-packet one-way delay: 80.906 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 30.85 Mbit/s
95th percentile per-packet one-way delay: 83.600 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 43.19 Mbit/s
95th percentile per-packet one-way delay: 68.132 ms
Loss rate: 1.37%
```

Run 8: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 51.98 Mbit/s)   Flow 1 egress (mean 51.87 Mbit/s)
Flow 2 ingress (mean 30.92 Mbit/s)   Flow 2 egress (mean 30.85 Mbit/s)
Flow 3 ingress (mean 43.49 Mbit/s)   Flow 3 egress (mean 43.19 Mbit/s)

Flow 1 (95th percentile 80.91 ms)   Flow 2 (95th percentile 83.60 ms)   Flow 3 (95th percentile 68.13 ms)
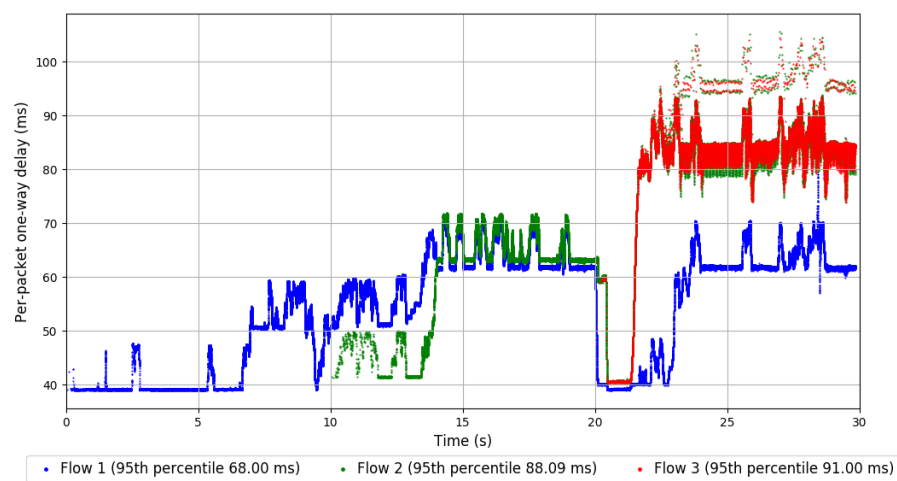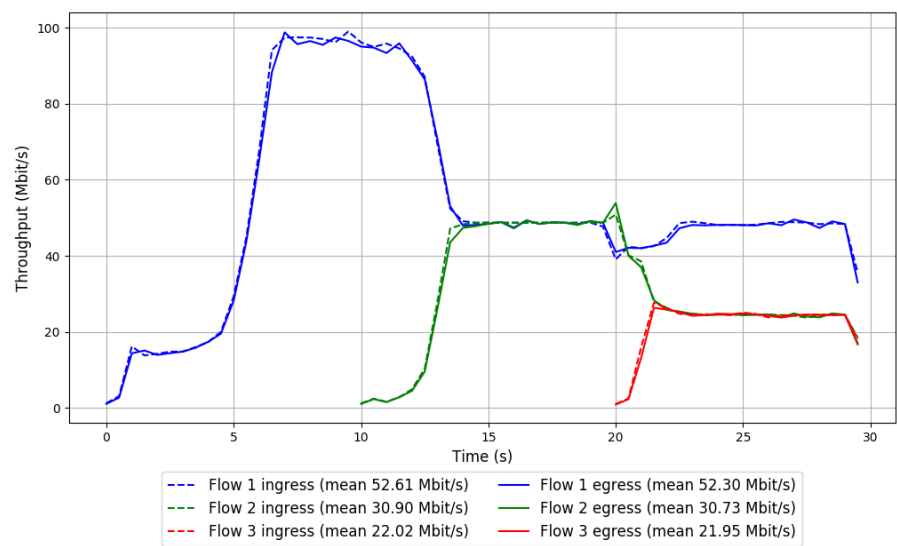
319

```
Run 9: Statistics of Vivace-loss

Start at: 2018-03-21 03:29:01
End at: 2018-03-21 03:29:31
Local clock offset: -0.203 ms
Remote clock offset: -9.264 ms


# Below is generated by plot.py at 2018-03-21 09:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.90 Mbit/s
95th percentile per-packet one-way delay: 85.164 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 52.30 Mbit/s
95th percentile per-packet one-way delay: 68.005 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 30.73 Mbit/s
95th percentile per-packet one-way delay: 88.092 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 21.95 Mbit/s
95th percentile per-packet one-way delay: 90.998 ms
Loss rate: 1.50%
```

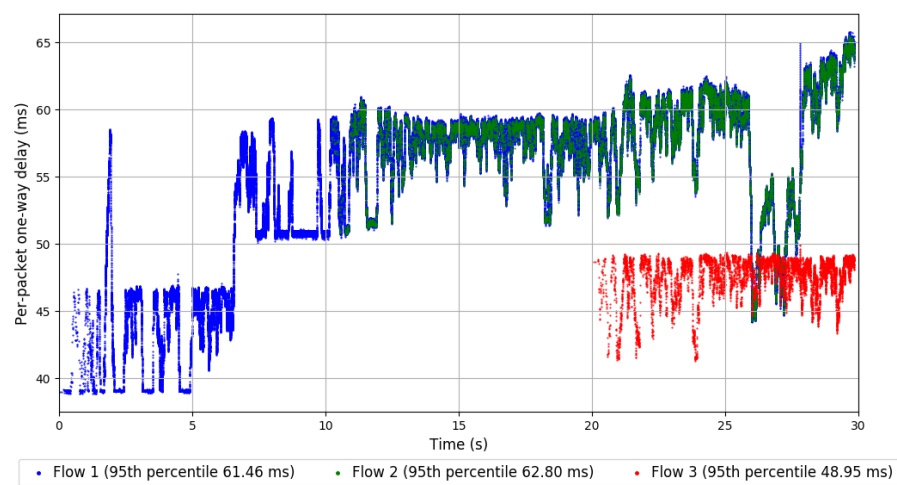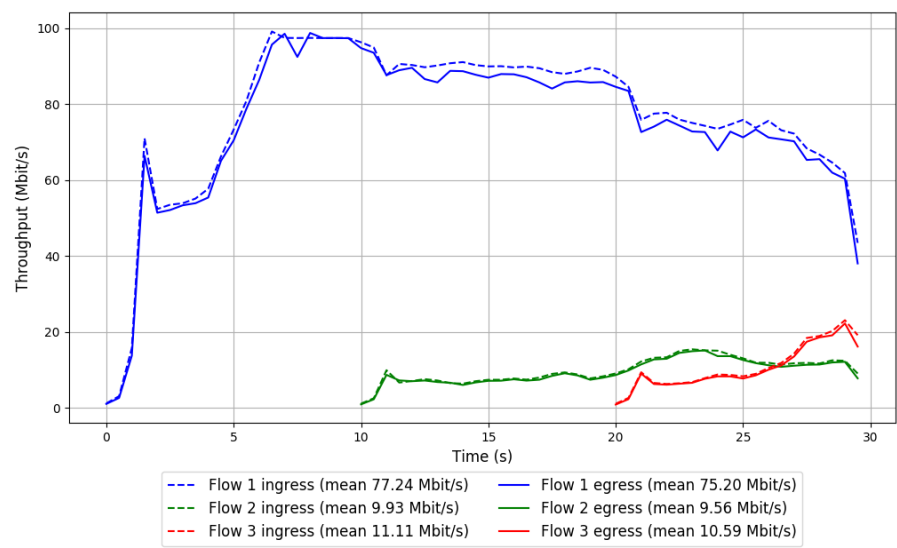Run 9: Report of Vivace-loss — Data Link

```
Run 10: Statistics of Vivace-loss

Start at: 2018-03-21 03:55:19
End at: 2018-03-21 03:55:49
Local clock offset: -0.209 ms
Remote clock offset: -6.519 ms


# Below is generated by plot.py at 2018-03-21 09:10:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.02 Mbit/s
95th percentile per-packet one-way delay: 61.532 ms
Loss rate: 3.07%
-- Flow 1:
Average throughput: 75.20 Mbit/s
95th percentile per-packet one-way delay: 61.462 ms
Loss rate: 2.87%
-- Flow 2:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 62.796 ms
Loss rate: 4.11%
-- Flow 3:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 48.953 ms
Loss rate: 5.41%
```

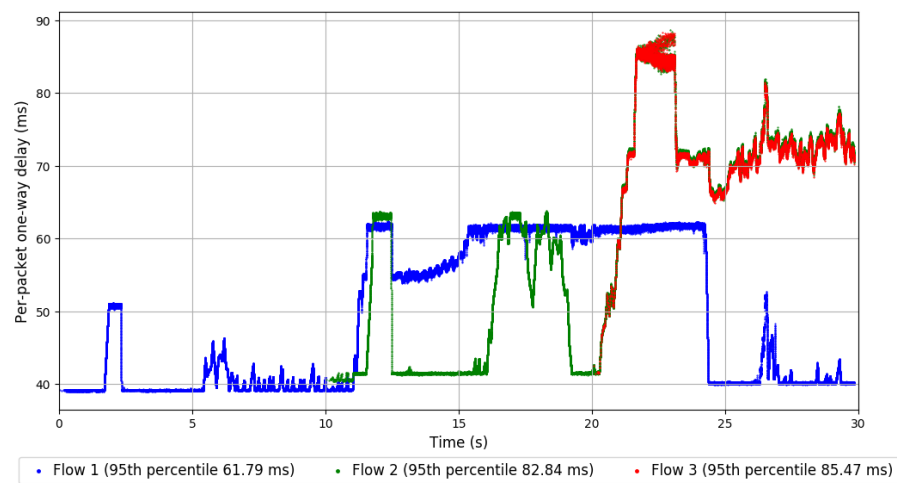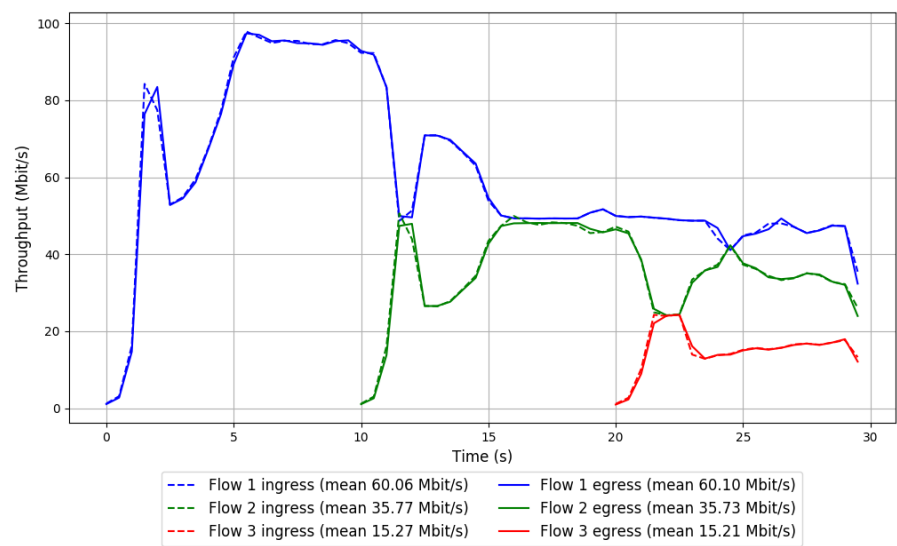Run 10: Report of Vivace-loss — Data Link

```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-20 23:49:42
End at: 2018-03-20 23:50:12
Local clock offset: -0.562 ms
Remote clock offset: -6.106 ms


# Below is generated by plot.py at 2018-03-21 09:10:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.82 Mbit/s
95th percentile per-packet one-way delay: 73.661 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 60.10 Mbit/s
95th percentile per-packet one-way delay: 61.786 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 82.839 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 85.470 ms
Loss rate: 1.17%
```

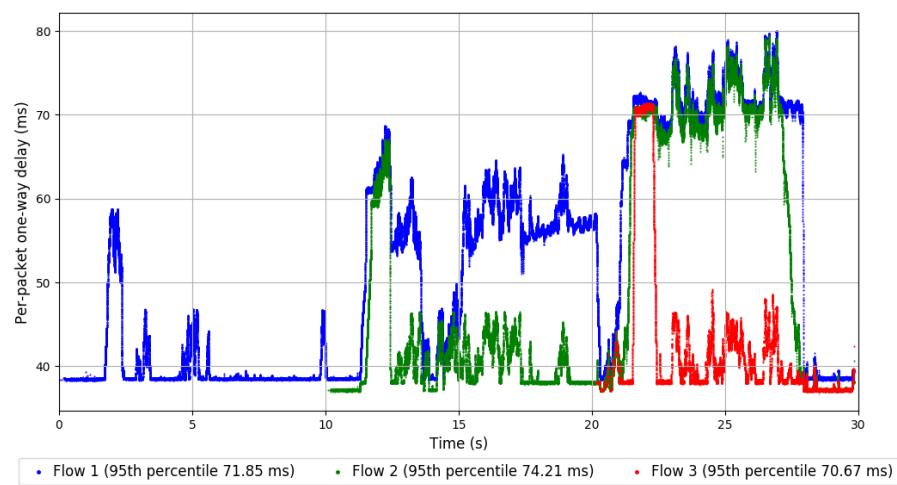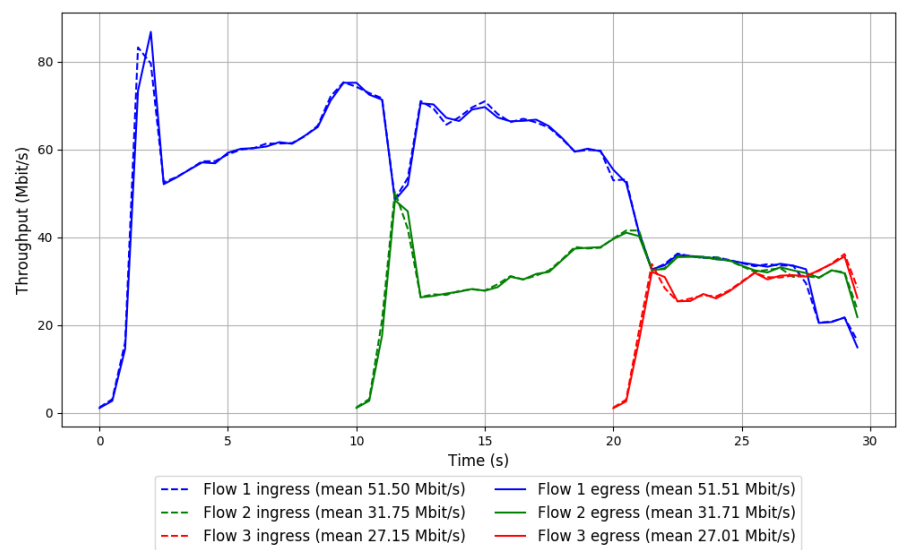Run 1: Report of Vivace-LTE — Data Link

```
Run 2: Statistics of Vivace-LTE

Start at: 2018-03-21 00:14:34
End at: 2018-03-21 00:15:04
Local clock offset: -0.048 ms
Remote clock offset: -5.396 ms


# Below is generated by plot.py at 2018-03-21 09:10:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 72.040 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 51.51 Mbit/s
95th percentile per-packet one-way delay: 71.848 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 74.210 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 27.01 Mbit/s
95th percentile per-packet one-way delay: 70.670 ms
Loss rate: 1.14%
```

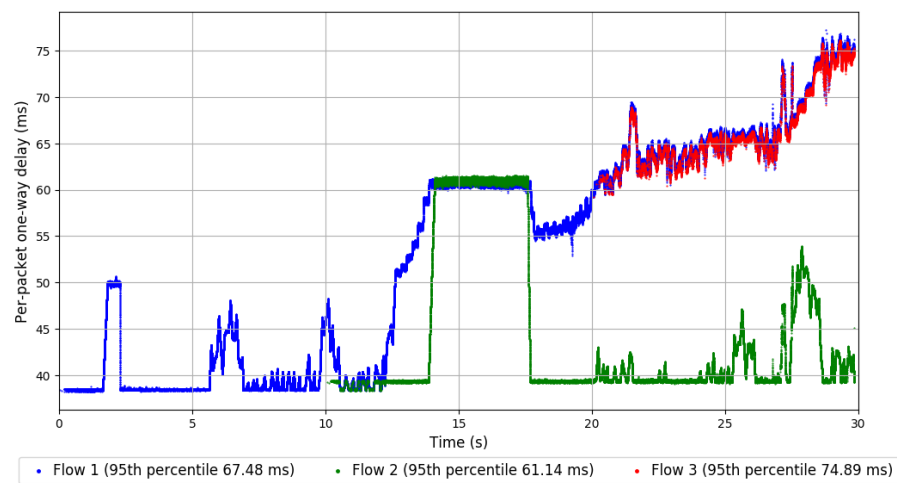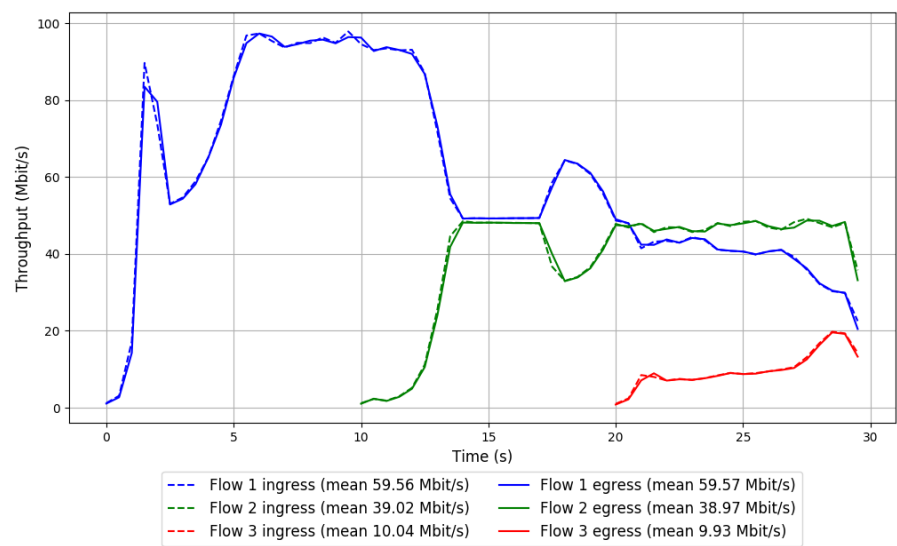Run 2: Report of Vivace-LTE — Data Link

```
Run 3: Statistics of Vivace-LTE

Start at: 2018-03-21 00:39:50
End at: 2018-03-21 00:40:20
Local clock offset: 0.288 ms
Remote clock offset: -6.162 ms


# Below is generated by plot.py at 2018-03-21 09:11:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.69 Mbit/s
95th percentile per-packet one-way delay: 67.546 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 59.57 Mbit/s
95th percentile per-packet one-way delay: 67.483 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 61.140 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 74.885 ms
Loss rate: 2.02%
```

Run 3: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 59.56 Mbit/s) ---- Flow 1 egress (mean 59.57 Mbit/s) ——
Flow 2 ingress (mean 39.02 Mbit/s) ---- Flow 2 egress (mean 38.97 Mbit/s) ——
Flow 3 ingress (mean 10.04 Mbit/s) ---- Flow 3 egress (mean 9.93 Mbit/s) ——

Flow 1 (95th percentile 67.48 ms)   Flow 2 (95th percentile 61.14 ms)   Flow 3 (95th percentile 74.89 ms)
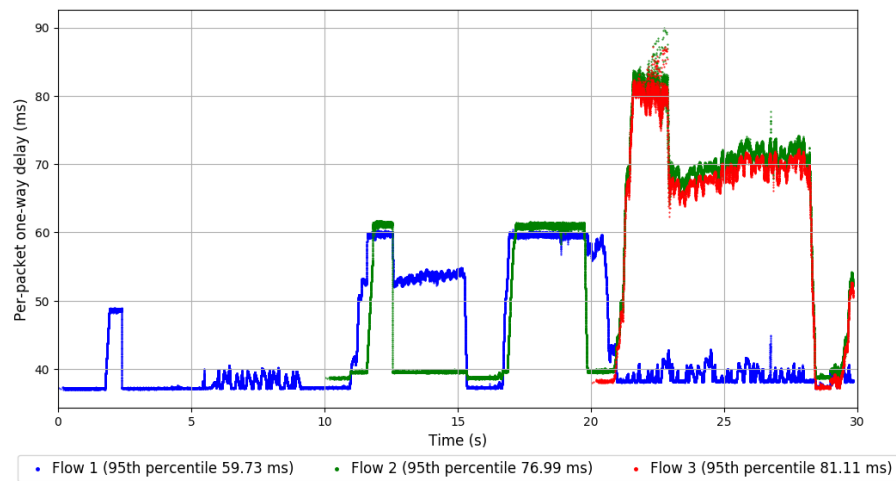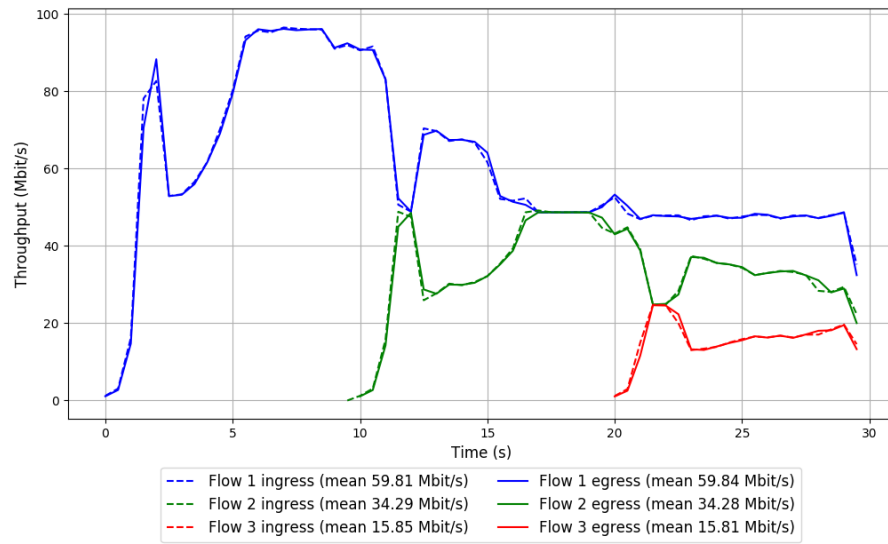
```
Run 4: Statistics of Vivace-LTE

Start at: 2018-03-21 01:04:41
End at: 2018-03-21 01:05:11
Local clock offset: 0.575 ms
Remote clock offset: -3.405 ms


# Below is generated by plot.py at 2018-03-21 09:11:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.80 Mbit/s
95th percentile per-packet one-way delay: 71.356 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 59.84 Mbit/s
95th percentile per-packet one-way delay: 59.726 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 34.28 Mbit/s
95th percentile per-packet one-way delay: 76.991 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 81.105 ms
Loss rate: 0.95%
```

Run 4: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 59.81 Mbit/s) — Flow 1 egress (mean 59.84 Mbit/s)
Flow 2 ingress (mean 34.29 Mbit/s) — Flow 2 egress (mean 34.28 Mbit/s)
Flow 3 ingress (mean 15.85 Mbit/s) — Flow 3 egress (mean 15.81 Mbit/s)

Flow 1 (95th percentile 59.73 ms)   Flow 2 (95th percentile 76.99 ms)   Flow 3 (95th percentile 81.11 ms)
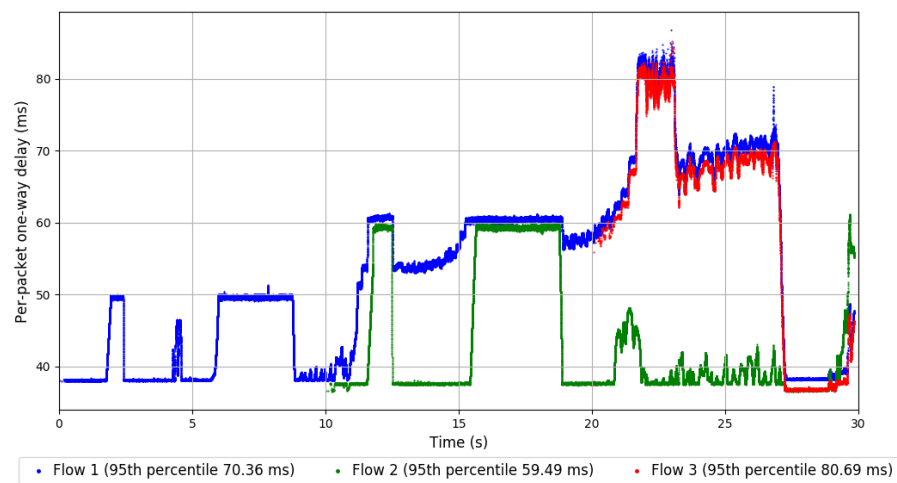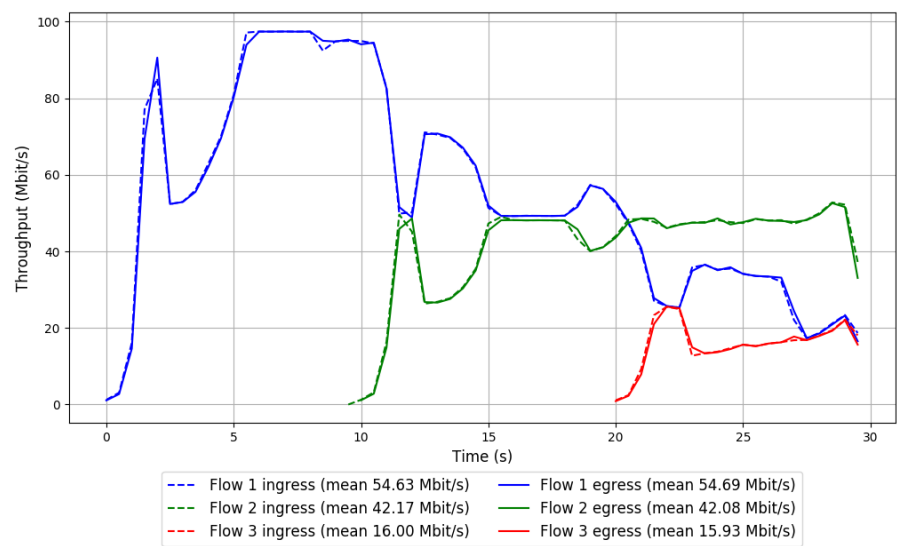
```
Run 5: Statistics of Vivace-LTE

Start at: 2018-03-21 01:29:33
End at: 2018-03-21 01:30:03
Local clock offset: -0.398 ms
Remote clock offset: -2.219 ms


# Below is generated by plot.py at 2018-03-21 09:11:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.89 Mbit/s
95th percentile per-packet one-way delay: 70.090 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 54.69 Mbit/s
95th percentile per-packet one-way delay: 70.355 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 42.08 Mbit/s
95th percentile per-packet one-way delay: 59.491 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 80.693 ms
Loss rate: 1.30%
```

Run 5: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 54.63 Mbit/s) — — — Flow 1 egress (mean 54.69 Mbit/s)
Flow 2 ingress (mean 42.17 Mbit/s) — — — Flow 2 egress (mean 42.08 Mbit/s)
Flow 3 ingress (mean 16.00 Mbit/s) — — — Flow 3 egress (mean 15.93 Mbit/s)

Flow 1 (95th percentile 70.36 ms)   Flow 2 (95th percentile 59.49 ms)   Flow 3 (95th percentile 80.69 ms)

```
Run 6: Statistics of Vivace-LTE

Start at: 2018-03-21 01:54:30
End at: 2018-03-21 01:55:00
Local clock offset: -0.614 ms
Remote clock offset: -3.18 ms


# Below is generated by plot.py at 2018-03-21 09:11:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.30 Mbit/s
95th percentile per-packet one-way delay: 72.246 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 53.80 Mbit/s
95th percentile per-packet one-way delay: 70.261 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 34.19 Mbit/s
95th percentile per-packet one-way delay: 71.707 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 17.62 Mbit/s
95th percentile per-packet one-way delay: 79.877 ms
Loss rate: 1.99%
```
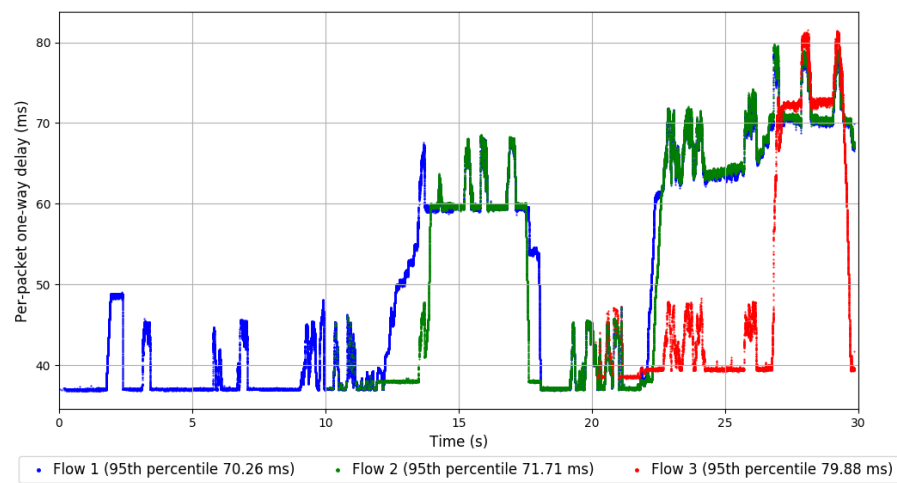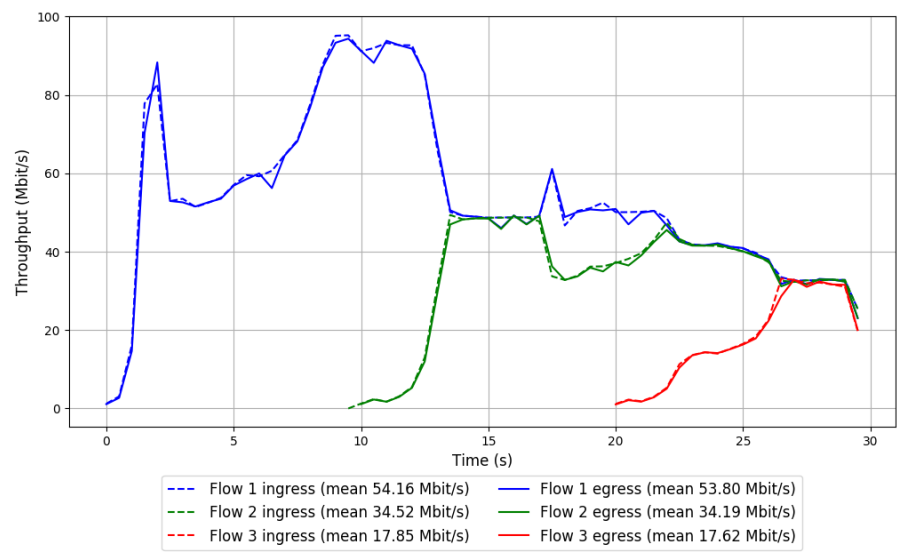
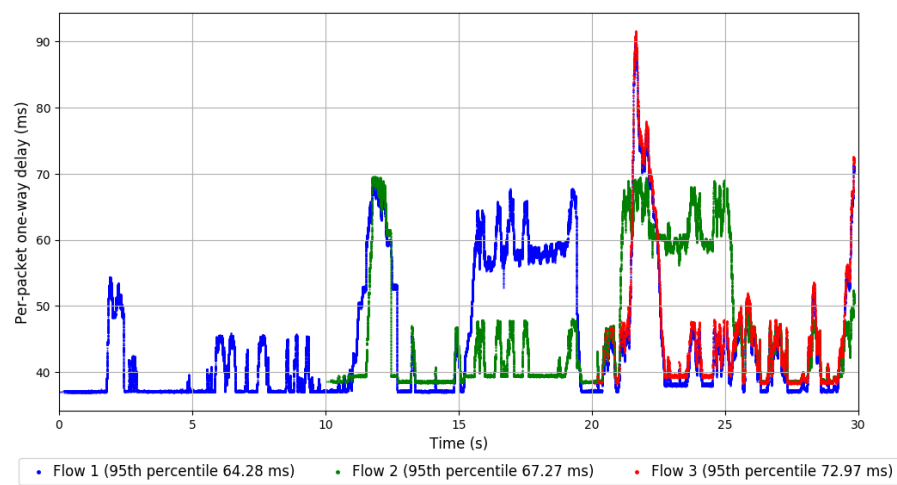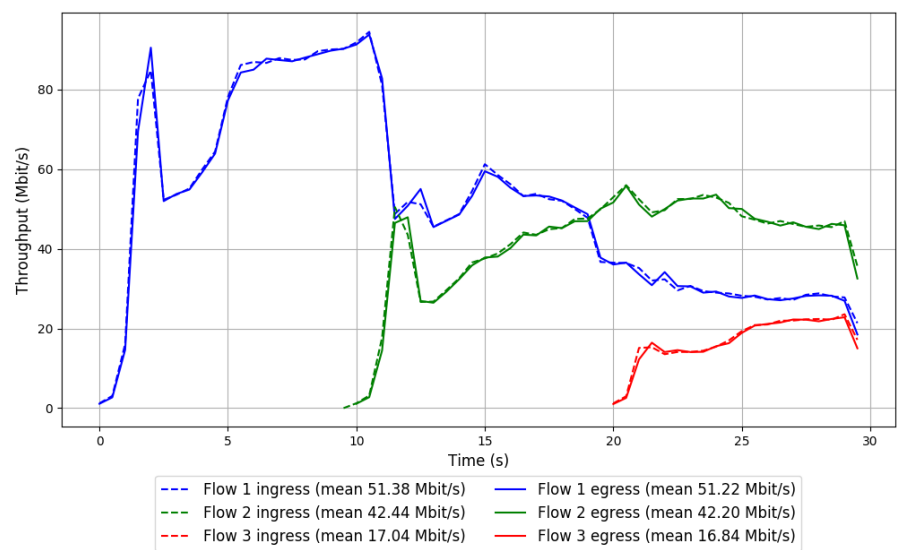# Run 6: Report of Vivace-LTE — Data Link

```
Run 7: Statistics of Vivace-LTE

Start at: 2018-03-21 02:20:10
End at: 2018-03-21 02:20:40
Local clock offset: -0.394 ms
Remote clock offset: -7.799 ms


# Below is generated by plot.py at 2018-03-21 09:11:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.80 Mbit/s
95th percentile per-packet one-way delay: 66.222 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 51.22 Mbit/s
95th percentile per-packet one-way delay: 64.283 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 42.20 Mbit/s
95th percentile per-packet one-way delay: 67.272 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 72.967 ms
Loss rate: 1.85%
```

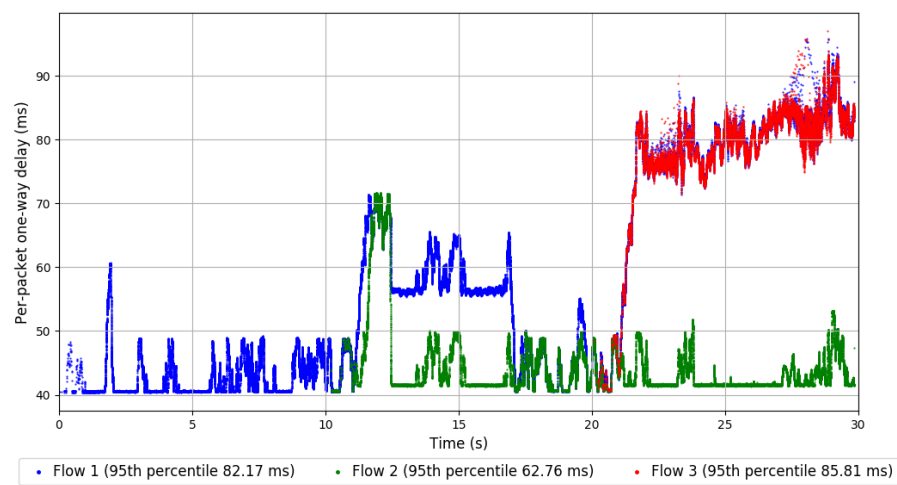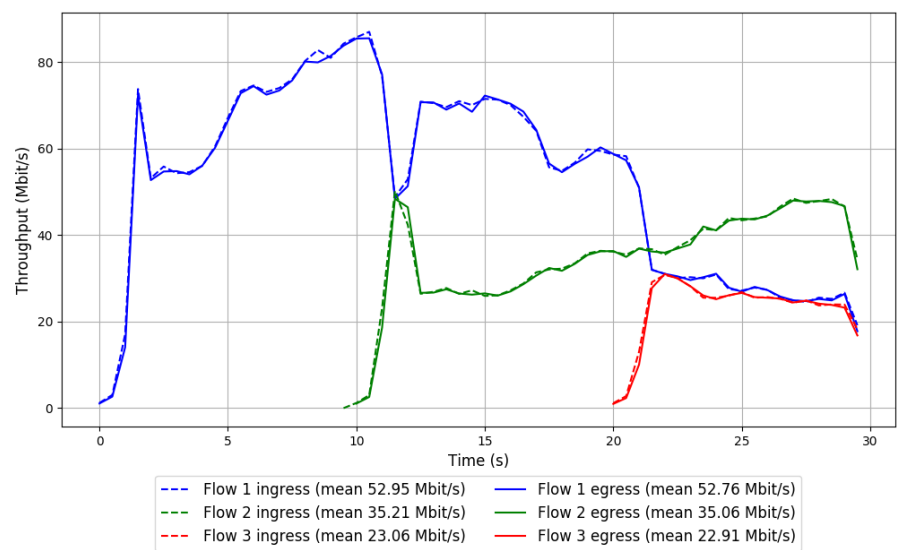Run 7: Report of Vivace-LTE — Data Link

```
Run 8: Statistics of Vivace-LTE

Start at: 2018-03-21 02:45:43
End at: 2018-03-21 02:46:13
Local clock offset: -0.244 ms
Remote clock offset: -9.198 ms


# Below is generated by plot.py at 2018-03-21 09:11:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.58 Mbit/s
95th percentile per-packet one-way delay: 82.803 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 82.170 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 35.06 Mbit/s
95th percentile per-packet one-way delay: 62.756 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 22.91 Mbit/s
95th percentile per-packet one-way delay: 85.808 ms
Loss rate: 1.43%
```

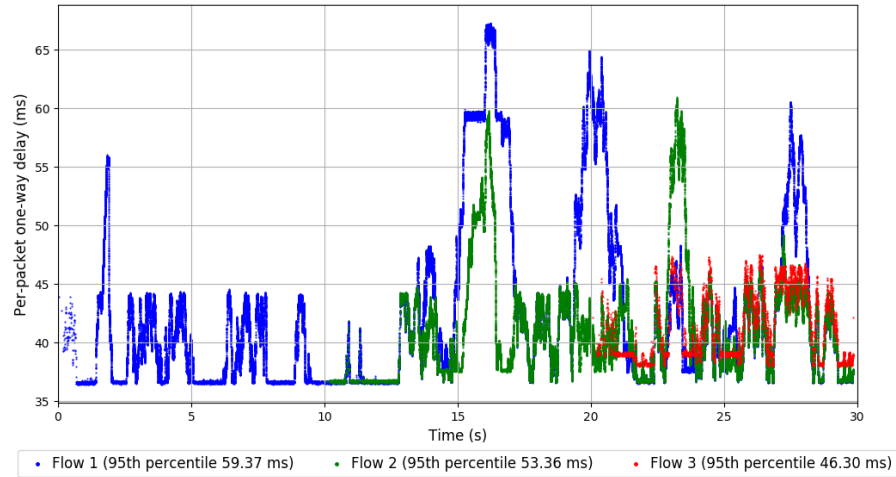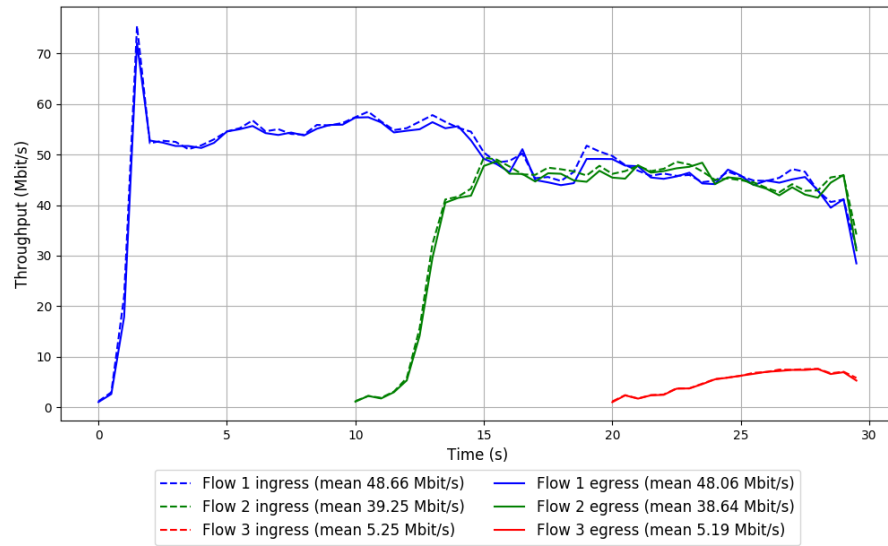# Run 8: Report of Vivace-LTE — Data Link

```
Run 9: Statistics of Vivace-LTE

Start at: 2018-03-21 03:12:09
End at: 2018-03-21 03:12:39
Local clock offset: -0.314 ms
Remote clock offset: -6.527 ms


# Below is generated by plot.py at 2018-03-21 09:11:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.44 Mbit/s
95th percentile per-packet one-way delay: 58.251 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 48.06 Mbit/s
95th percentile per-packet one-way delay: 59.367 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 53.361 ms
Loss rate: 1.89%
-- Flow 3:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 46.305 ms
Loss rate: 1.90%
```

Run 9: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 48.66 Mbit/s)   Flow 1 egress (mean 48.06 Mbit/s)
Flow 2 ingress (mean 39.25 Mbit/s)   Flow 2 egress (mean 38.64 Mbit/s)
Flow 3 ingress (mean 5.25 Mbit/s)   Flow 3 egress (mean 5.19 Mbit/s)

Flow 1 (95th percentile 59.37 ms)   Flow 2 (95th percentile 53.36 ms)   Flow 3 (95th percentile 46.30 ms)

```
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-21 03:37:41
End at: 2018-03-21 03:38:11
Local clock offset: -0.184 ms
Remote clock offset: -9.46 ms


# Below is generated by plot.py at 2018-03-21 09:11:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.56 Mbit/s
95th percentile per-packet one-way delay: 74.529 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 49.709 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 41.25 Mbit/s
95th percentile per-packet one-way delay: 76.711 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 77.407 ms
Loss rate: 2.77%
```

Run 10: Report of Vivace-LTE — Data Link