

Pantheon Report

Generated at 2018-02-13 21:46:12 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 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).

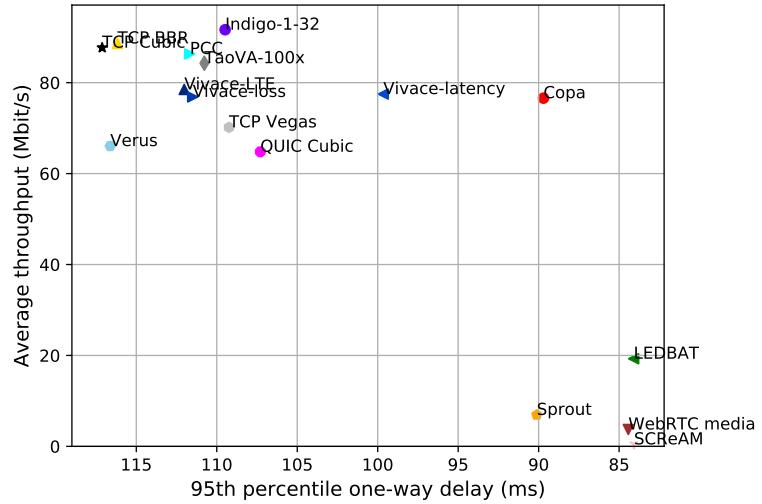
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

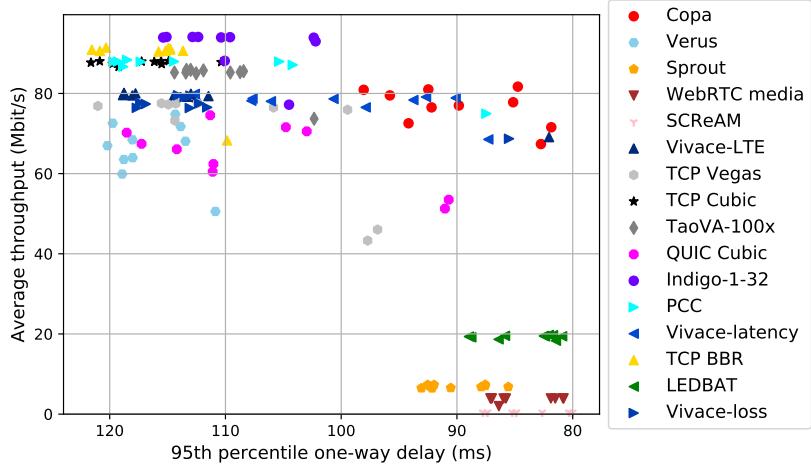
Git summary:

```
branch: master @ 2efdadc57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
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 @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf
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 Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



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



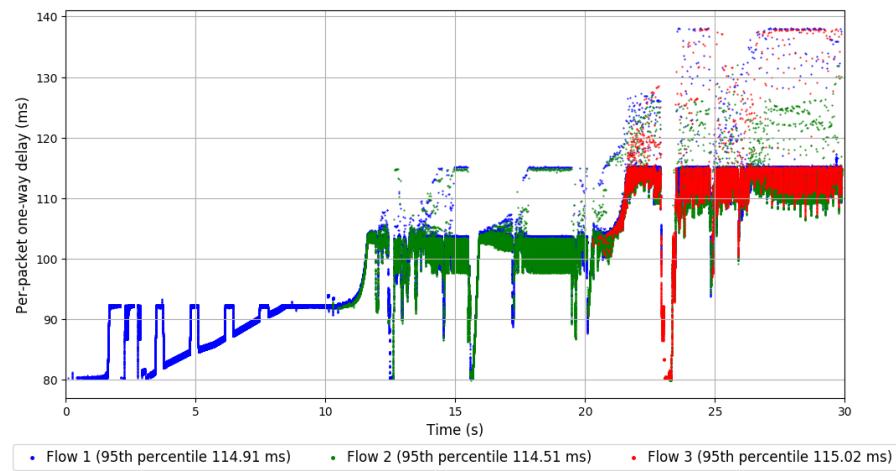
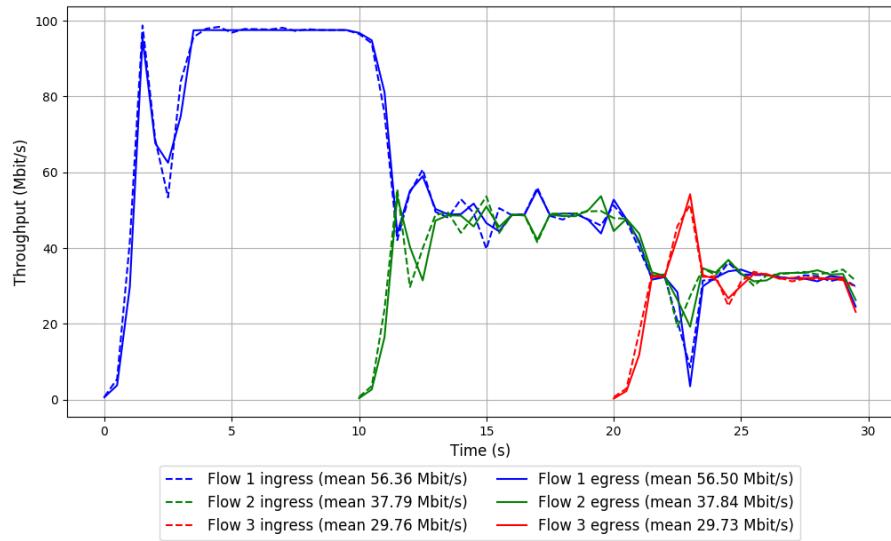
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	54.67	37.42	27.96	115.59	115.83	116.17	1.31	2.08	3.51
TCP Cubic	10	53.07	39.70	25.29	116.71	116.80	117.51	0.47	1.34	3.07
LEDBAT	10	12.60	8.09	4.01	83.95	83.83	83.54	1.12	1.62	3.44
PCC	9	59.38	29.43	23.68	110.79	111.48	113.68	1.96	4.13	4.69
QUIC Cubic	10	37.15	33.90	15.94	107.40	106.39	106.58	0.87	1.17	2.69
SCReAM	10	0.22	0.22	0.22	82.94	83.20	83.20	0.63	0.84	1.50
WebRTC media	10	1.91	1.33	0.50	83.73	83.90	84.15	0.70	0.97	2.51
Sprout	10	3.81	3.40	2.61	90.09	89.91	89.43	0.66	1.17	2.76
TaoVA-100x	10	50.24	37.83	27.52	110.16	110.61	111.53	1.48	2.11	3.99
TCP Vegas	10	36.40	38.84	24.35	108.81	109.17	109.41	0.63	0.91	2.41
Verus	10	37.07	31.81	24.24	114.20	117.43	117.93	1.40	1.98	2.14
Copa	10	51.15	34.35	7.99	89.17	90.46	89.03	3.09	5.23	17.41
FillP	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo-1-32	10	64.01	30.93	22.17	108.49	109.74	111.21	1.89	3.73	5.12
Vivace-latency	10	63.16	16.11	11.21	97.59	99.52	100.32	1.00	2.29	3.33
Vivace-loss	10	50.22	28.88	23.04	111.09	111.34	111.46	1.10	2.38	7.55
Vivace-LTE	10	52.45	28.98	21.03	111.07	112.11	112.31	1.15	2.75	6.94

Run 1: Statistics of TCP BBR

```
Start at: 2018-02-13 13:34:11
End at: 2018-02-13 13:34:41
Local clock offset: -3.571 ms
Remote clock offset: 1.27 ms

# Below is generated by plot.py at 2018-02-13 21:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.31 Mbit/s
95th percentile per-packet one-way delay: 114.931 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 56.50 Mbit/s
95th percentile per-packet one-way delay: 114.905 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 37.84 Mbit/s
95th percentile per-packet one-way delay: 114.506 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 29.73 Mbit/s
95th percentile per-packet one-way delay: 115.024 ms
Loss rate: 2.14%
```

Run 1: Report of TCP BBR — Data Link

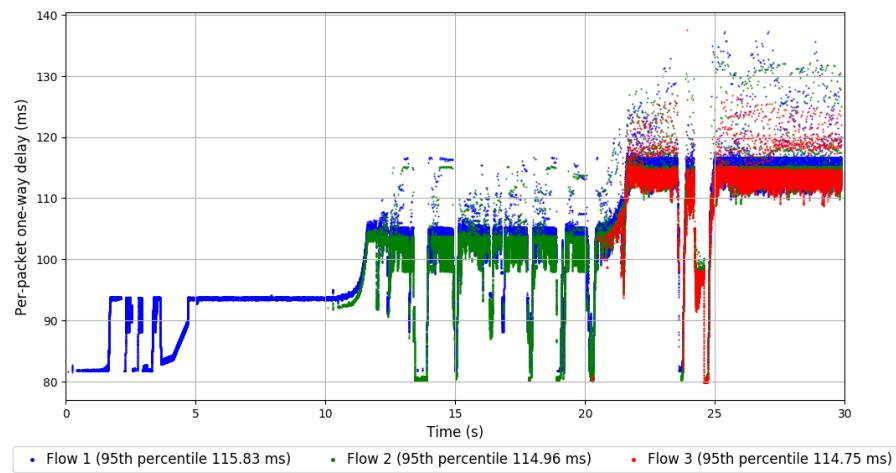
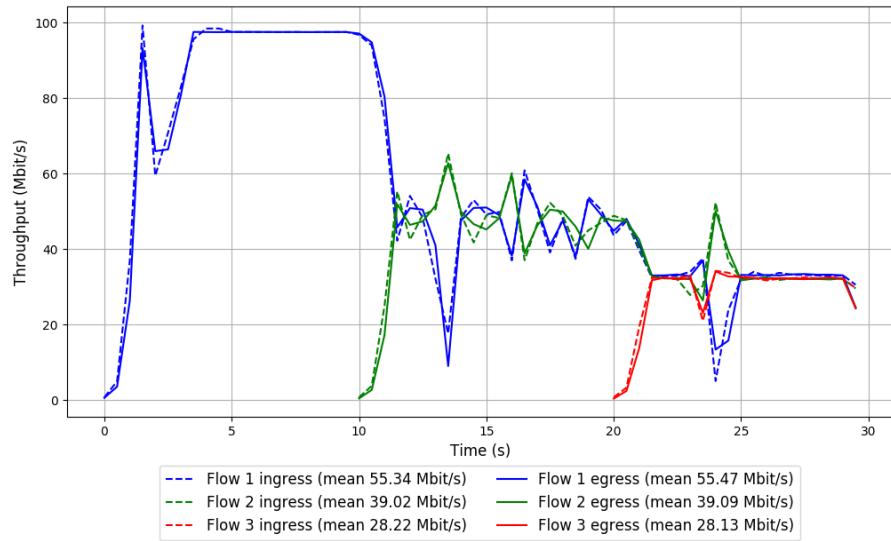


Run 2: Statistics of TCP BBR

```
Start at: 2018-02-13 13:57:50
End at: 2018-02-13 13:58:20
Local clock offset: -3.653 ms
Remote clock offset: 0.923 ms

# Below is generated by plot.py at 2018-02-13 21:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 115.178 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 55.47 Mbit/s
95th percentile per-packet one-way delay: 115.831 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 39.09 Mbit/s
95th percentile per-packet one-way delay: 114.964 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 28.13 Mbit/s
95th percentile per-packet one-way delay: 114.751 ms
Loss rate: 2.27%
```

Run 2: Report of TCP BBR — Data Link

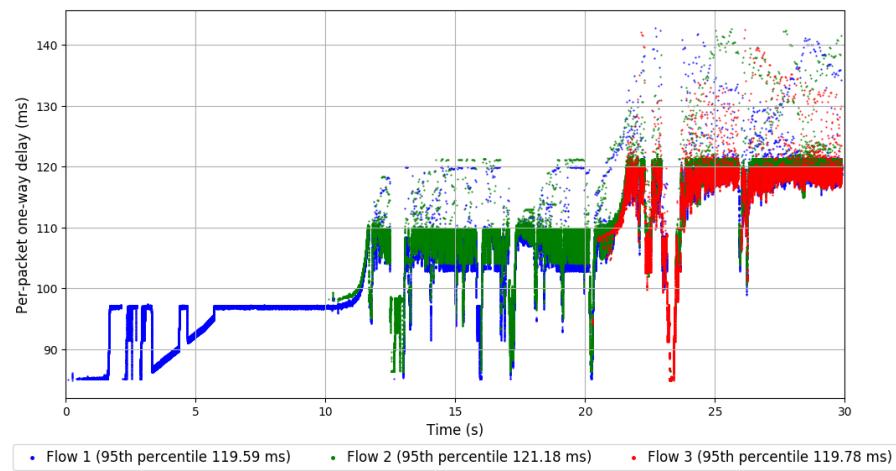
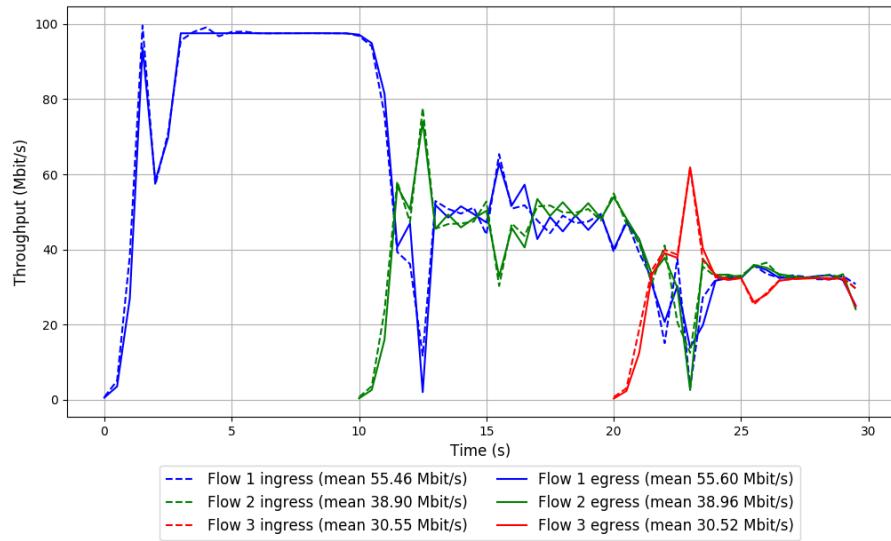


Run 3: Statistics of TCP BBR

```
Start at: 2018-02-13 14:21:29
End at: 2018-02-13 14:21:59
Local clock offset: -3.633 ms
Remote clock offset: -4.053 ms

# Below is generated by plot.py at 2018-02-13 21:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 120.312 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 119.587 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 38.96 Mbit/s
95th percentile per-packet one-way delay: 121.177 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 30.52 Mbit/s
95th percentile per-packet one-way delay: 119.776 ms
Loss rate: 2.11%
```

Run 3: Report of TCP BBR — Data Link

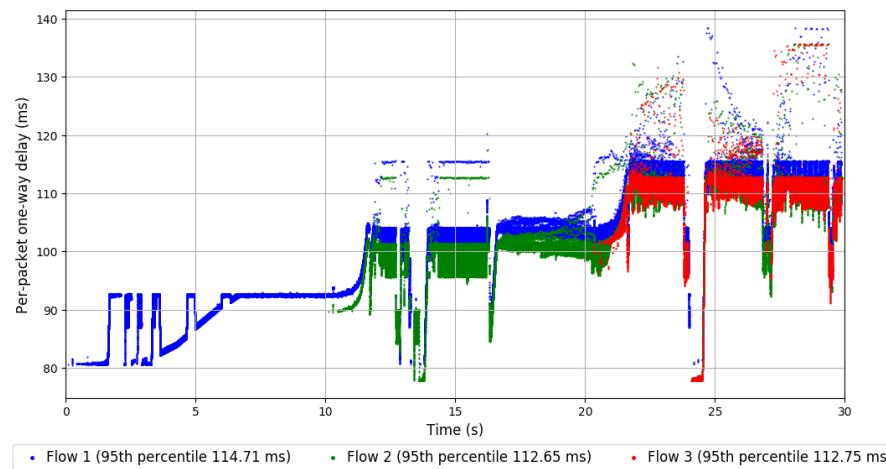
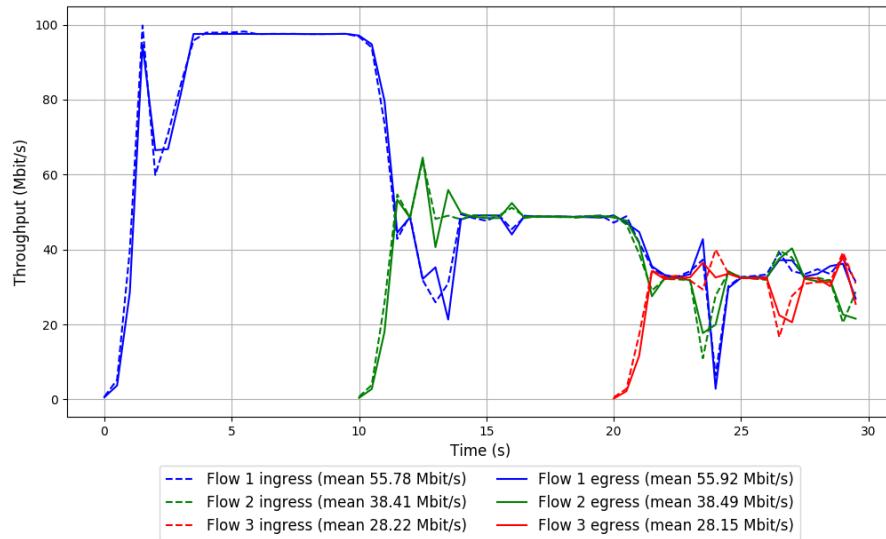


Run 4: Statistics of TCP BBR

```
Start at: 2018-02-13 14:45:02
End at: 2018-02-13 14:45:32
Local clock offset: -3.654 ms
Remote clock offset: 1.518 ms

# Below is generated by plot.py at 2018-02-13 21:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.63 Mbit/s
95th percentile per-packet one-way delay: 113.666 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 55.92 Mbit/s
95th percentile per-packet one-way delay: 114.710 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 112.647 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 112.750 ms
Loss rate: 2.35%
```

Run 4: Report of TCP BBR — Data Link

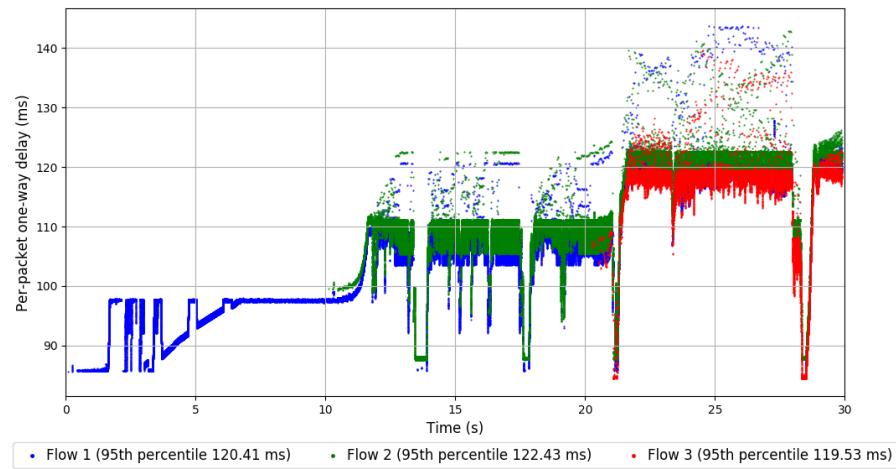
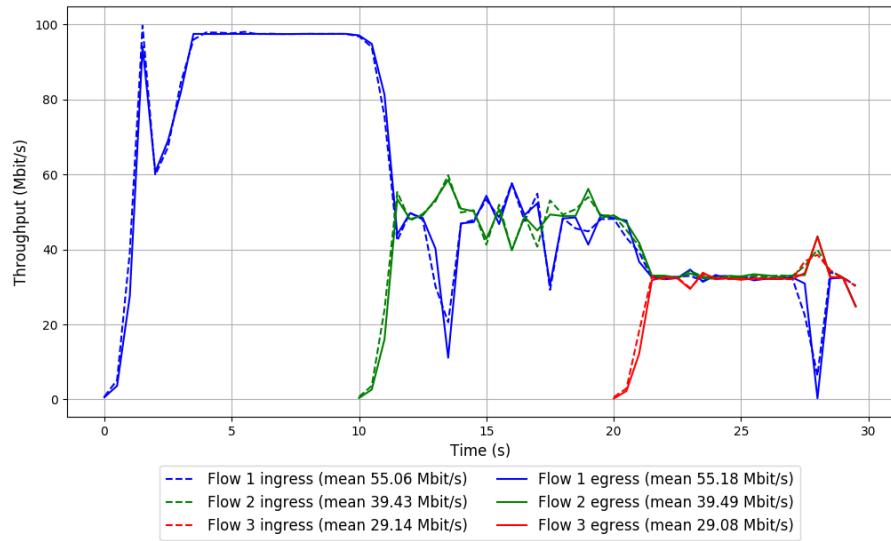


Run 5: Statistics of TCP BBR

```
Start at: 2018-02-13 15:08:34
End at: 2018-02-13 15:09:04
Local clock offset: -5.339 ms
Remote clock offset: -4.643 ms

# Below is generated by plot.py at 2018-02-13 21:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 121.540 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 55.18 Mbit/s
95th percentile per-packet one-way delay: 120.411 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 39.49 Mbit/s
95th percentile per-packet one-way delay: 122.433 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 29.08 Mbit/s
95th percentile per-packet one-way delay: 119.526 ms
Loss rate: 2.27%
```

Run 5: Report of TCP BBR — Data Link

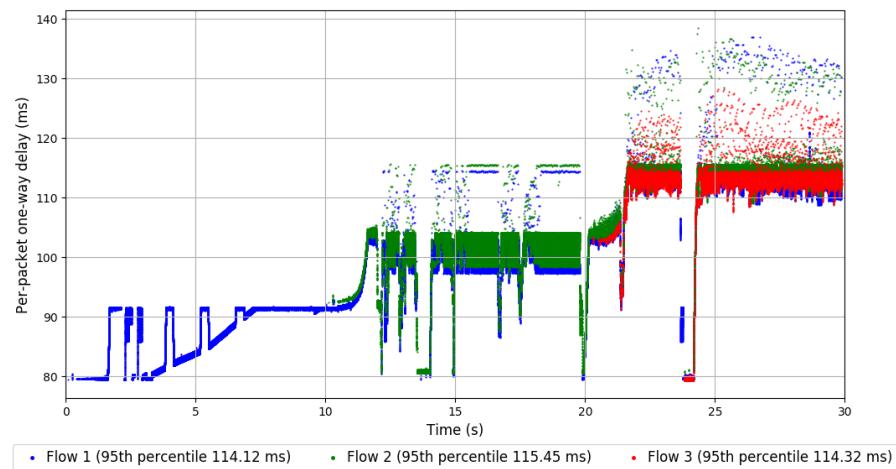
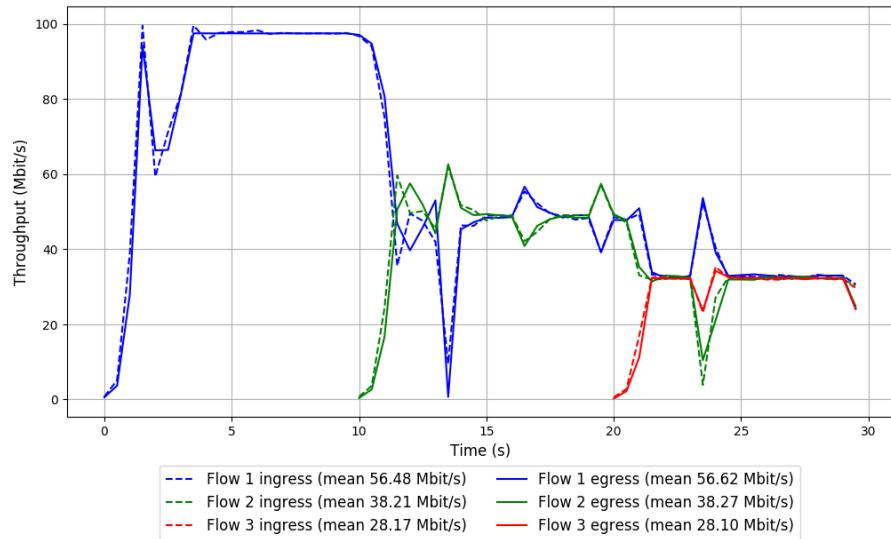


Run 6: Statistics of TCP BBR

```
Start at: 2018-02-13 15:32:11
End at: 2018-02-13 15:32:41
Local clock offset: -7.045 ms
Remote clock offset: 1.894 ms

# Below is generated by plot.py at 2018-02-13 21:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 114.774 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 114.119 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 38.27 Mbit/s
95th percentile per-packet one-way delay: 115.454 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 28.10 Mbit/s
95th percentile per-packet one-way delay: 114.324 ms
Loss rate: 2.31%
```

Run 6: Report of TCP BBR — Data Link

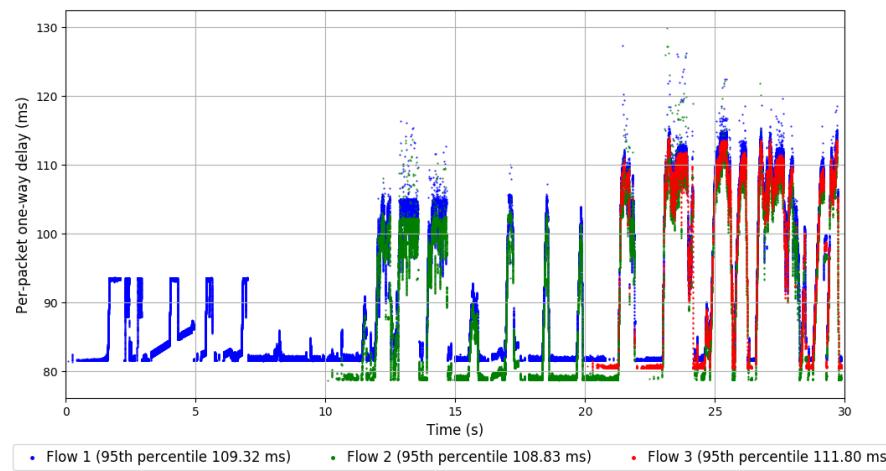
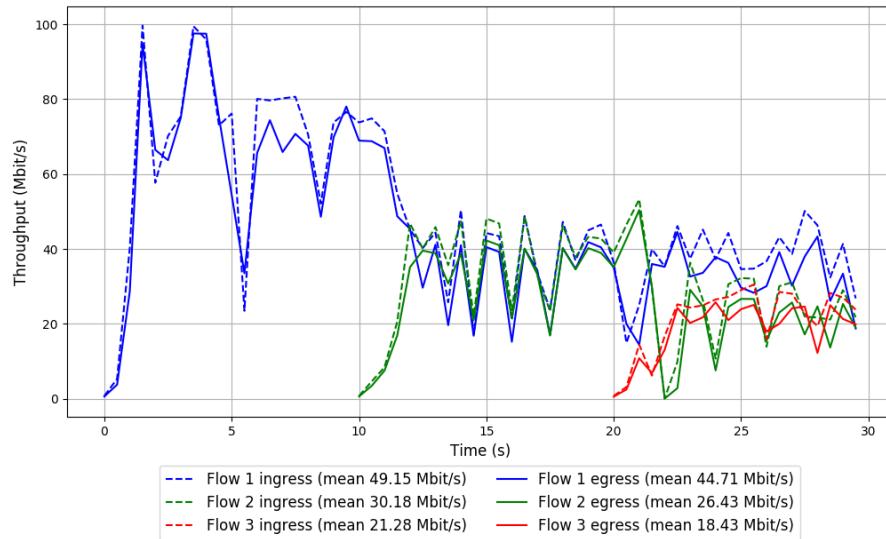


Run 7: Statistics of TCP BBR

```
Start at: 2018-02-13 15:55:45
End at: 2018-02-13 15:56:15
Local clock offset: -3.802 ms
Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2018-02-13 21:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.28 Mbit/s
95th percentile per-packet one-way delay: 109.860 ms
Loss rate: 10.96%
-- Flow 1:
Average throughput: 44.71 Mbit/s
95th percentile per-packet one-way delay: 109.321 ms
Loss rate: 9.55%
-- Flow 2:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 108.827 ms
Loss rate: 13.12%
-- Flow 3:
Average throughput: 18.43 Mbit/s
95th percentile per-packet one-way delay: 111.799 ms
Loss rate: 14.64%
```

Run 7: Report of TCP BBR — Data Link

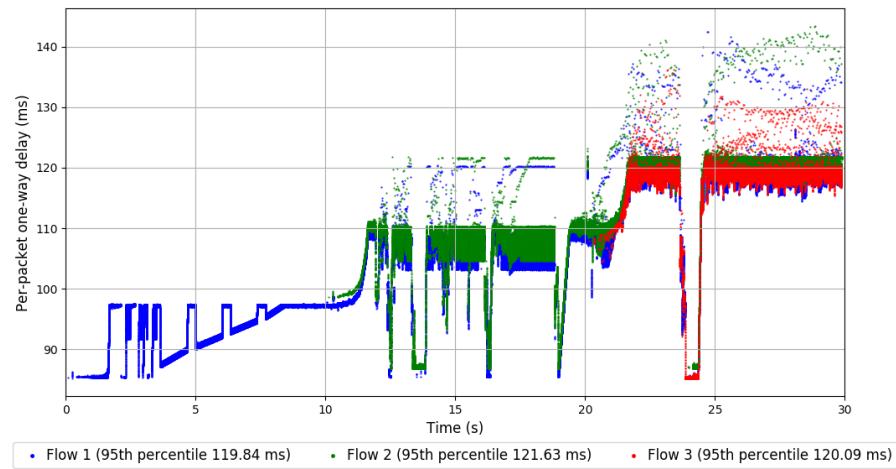
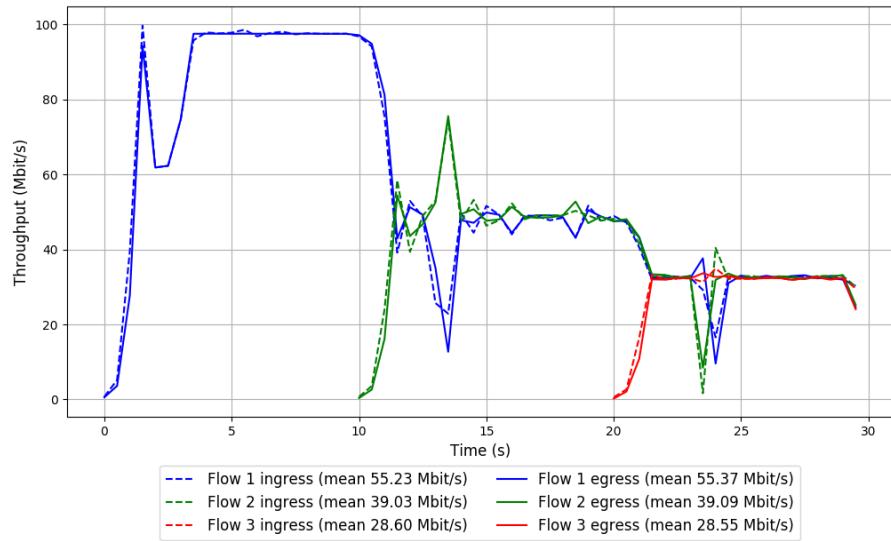


Run 8: Statistics of TCP BBR

```
Start at: 2018-02-13 16:19:30
End at: 2018-02-13 16:20:00
Local clock offset: -5.683 ms
Remote clock offset: -3.559 ms

# Below is generated by plot.py at 2018-02-13 21:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 120.854 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 55.37 Mbit/s
95th percentile per-packet one-way delay: 119.840 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 39.09 Mbit/s
95th percentile per-packet one-way delay: 121.633 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 28.55 Mbit/s
95th percentile per-packet one-way delay: 120.091 ms
Loss rate: 2.26%
```

Run 8: Report of TCP BBR — Data Link

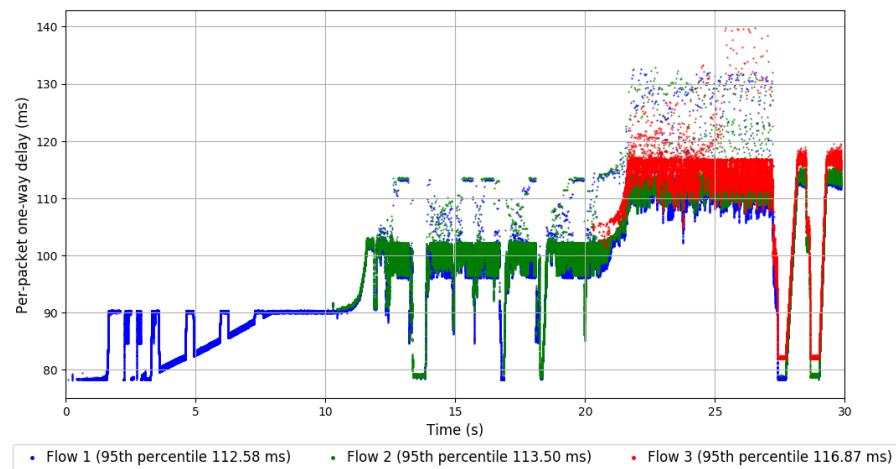
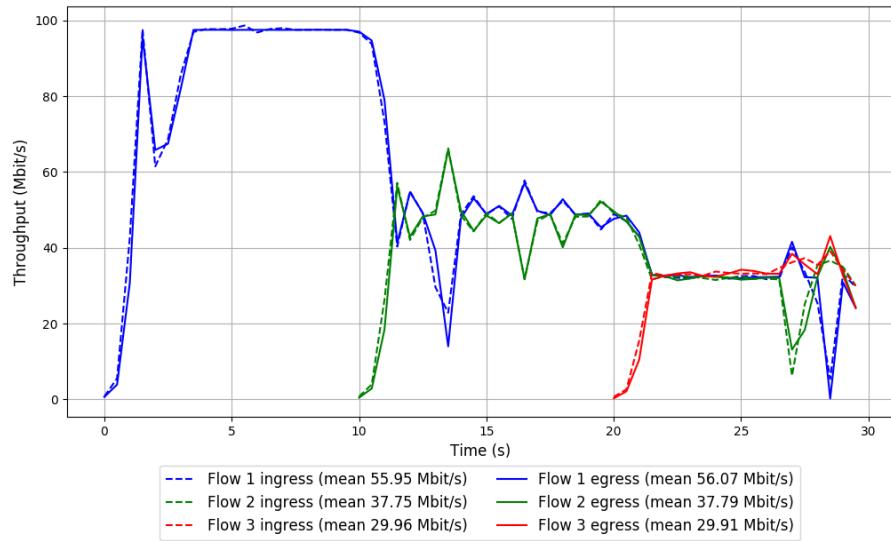


Run 9: Statistics of TCP BBR

```
Start at: 2018-02-13 16:43:10
End at: 2018-02-13 16:43:40
Local clock offset: -6.974 ms
Remote clock offset: 1.258 ms

# Below is generated by plot.py at 2018-02-13 21:26:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 114.781 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 56.07 Mbit/s
95th percentile per-packet one-way delay: 112.583 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 37.79 Mbit/s
95th percentile per-packet one-way delay: 113.501 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 29.91 Mbit/s
95th percentile per-packet one-way delay: 116.871 ms
Loss rate: 2.25%
```

Run 9: Report of TCP BBR — Data Link

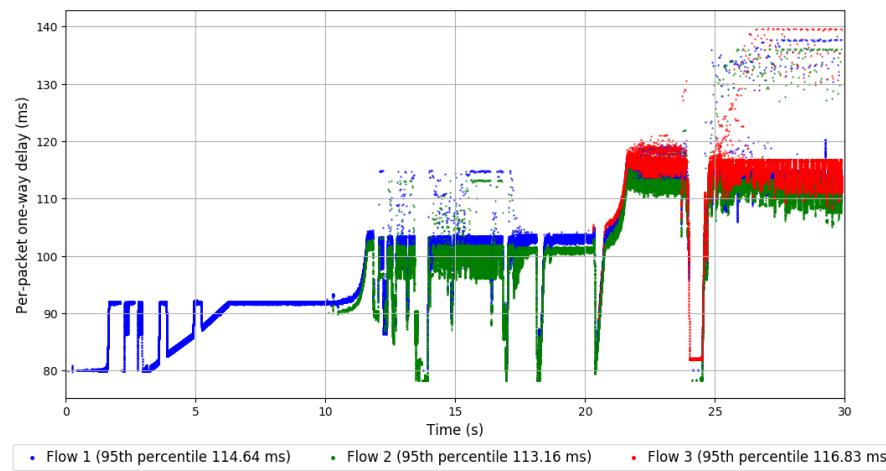
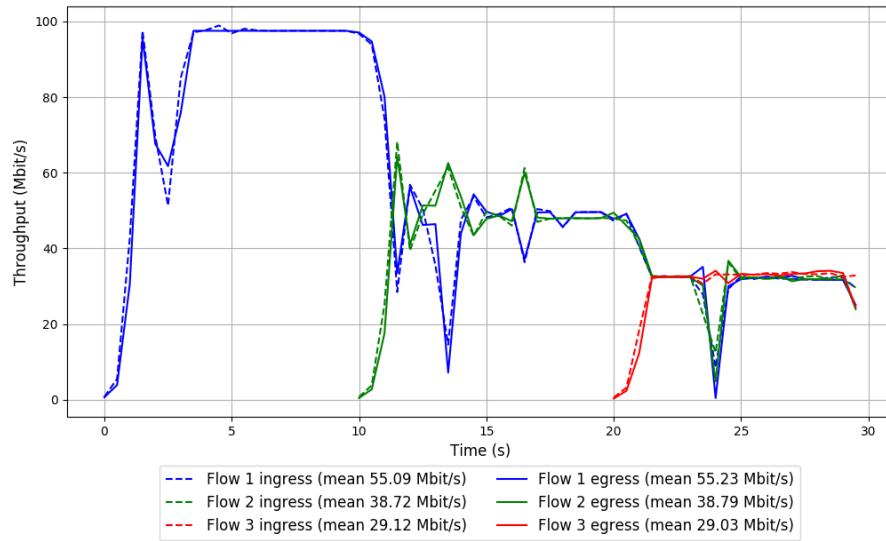


Run 10: Statistics of TCP BBR

```
Start at: 2018-02-13 17:06:56
End at: 2018-02-13 17:07:26
Local clock offset: -8.154 ms
Remote clock offset: 1.162 ms

# Below is generated by plot.py at 2018-02-13 21:27:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.44 Mbit/s
95th percentile per-packet one-way delay: 115.781 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: 114.642 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 113.164 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 29.03 Mbit/s
95th percentile per-packet one-way delay: 116.833 ms
Loss rate: 2.51%
```

Run 10: Report of TCP BBR — Data Link

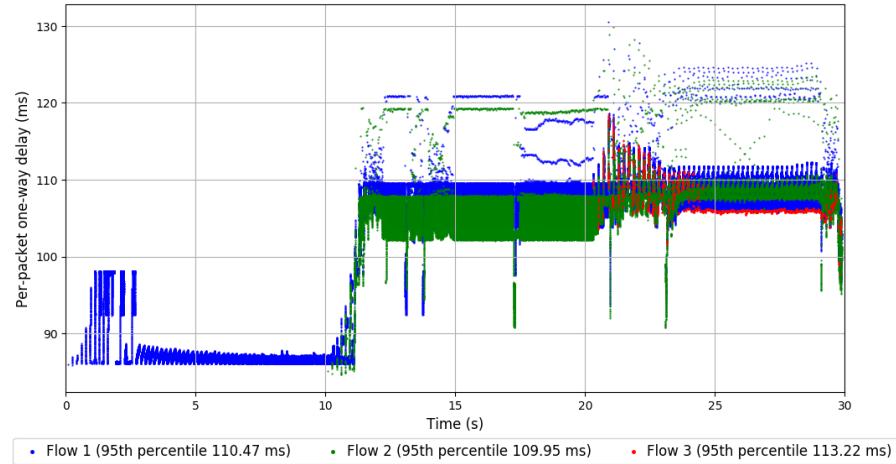
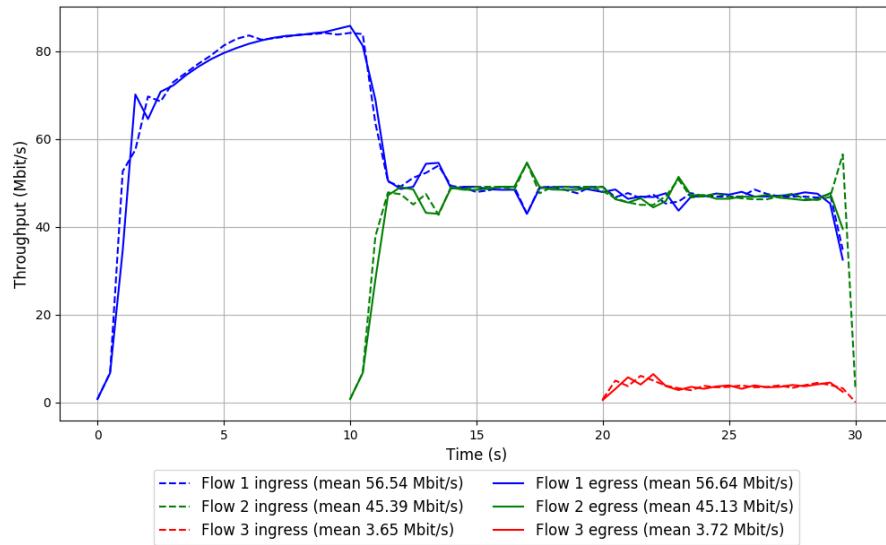


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-02-13 13:38:11
End at: 2018-02-13 13:38:41
Local clock offset: -3.549 ms
Remote clock offset: -4.422 ms

# Below is generated by plot.py at 2018-02-13 21:27:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 110.367 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 56.64 Mbit/s
95th percentile per-packet one-way delay: 110.466 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 45.13 Mbit/s
95th percentile per-packet one-way delay: 109.951 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 113.216 ms
Loss rate: 1.95%
```

Run 1: Report of TCP Cubic — Data Link

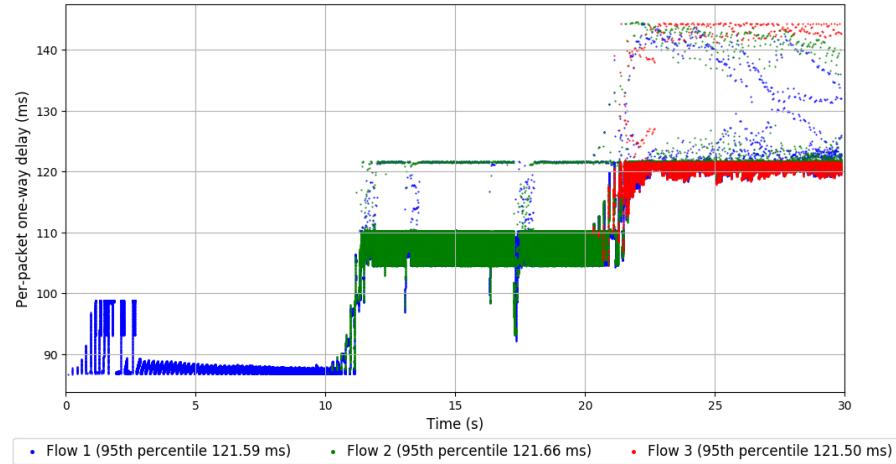
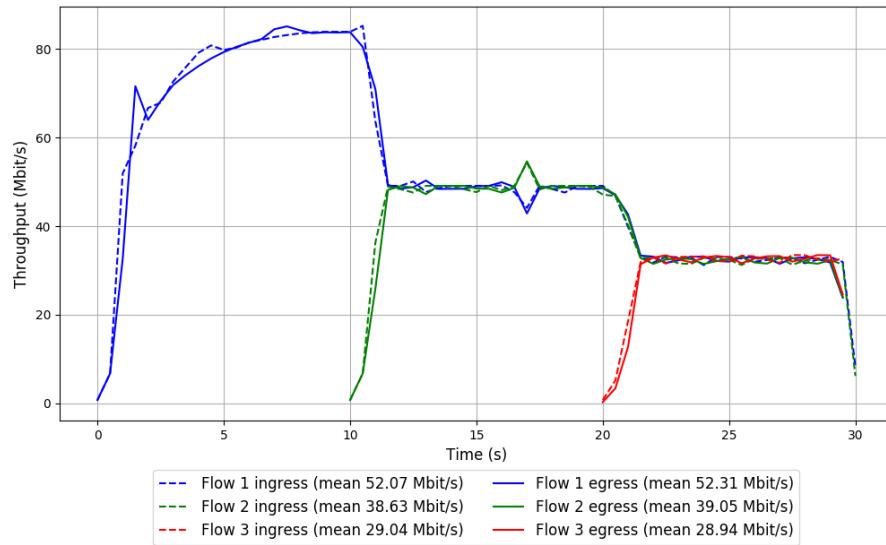


Run 2: Statistics of TCP Cubic

```
Start at: 2018-02-13 14:01:50
End at: 2018-02-13 14:02:20
Local clock offset: -3.64 ms
Remote clock offset: -4.107 ms

# Below is generated by plot.py at 2018-02-13 21:27:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 121.623 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 52.31 Mbit/s
95th percentile per-packet one-way delay: 121.592 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 39.05 Mbit/s
95th percentile per-packet one-way delay: 121.660 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 28.94 Mbit/s
95th percentile per-packet one-way delay: 121.503 ms
Loss rate: 2.55%
```

Run 2: Report of TCP Cubic — Data Link

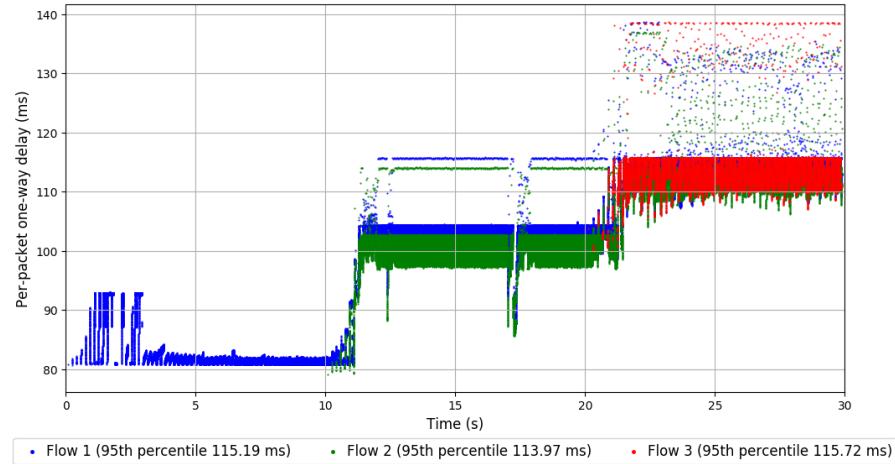
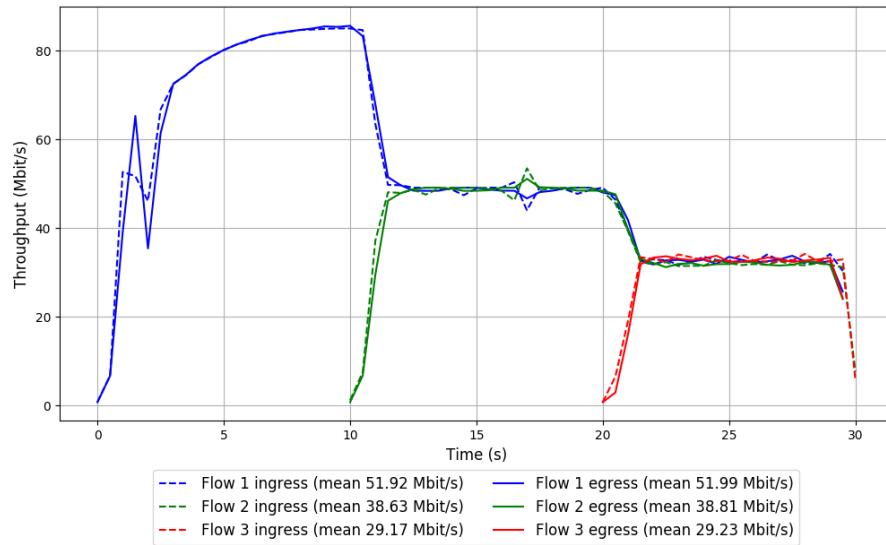


Run 3: Statistics of TCP Cubic

```
Start at: 2018-02-13 14:25:28
End at: 2018-02-13 14:25:58
Local clock offset: -3.589 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2018-02-13 21:27:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.35 Mbit/s
95th percentile per-packet one-way delay: 115.510 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 51.99 Mbit/s
95th percentile per-packet one-way delay: 115.191 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 113.965 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 115.716 ms
Loss rate: 3.70%
```

Run 3: Report of TCP Cubic — Data Link

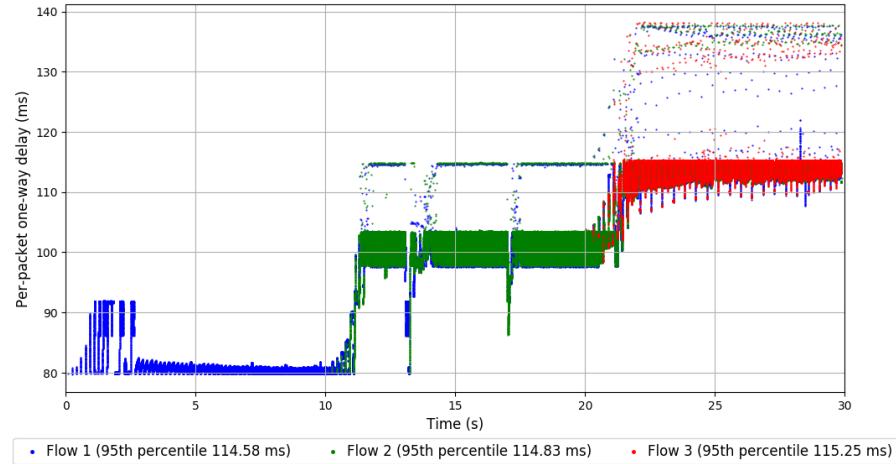
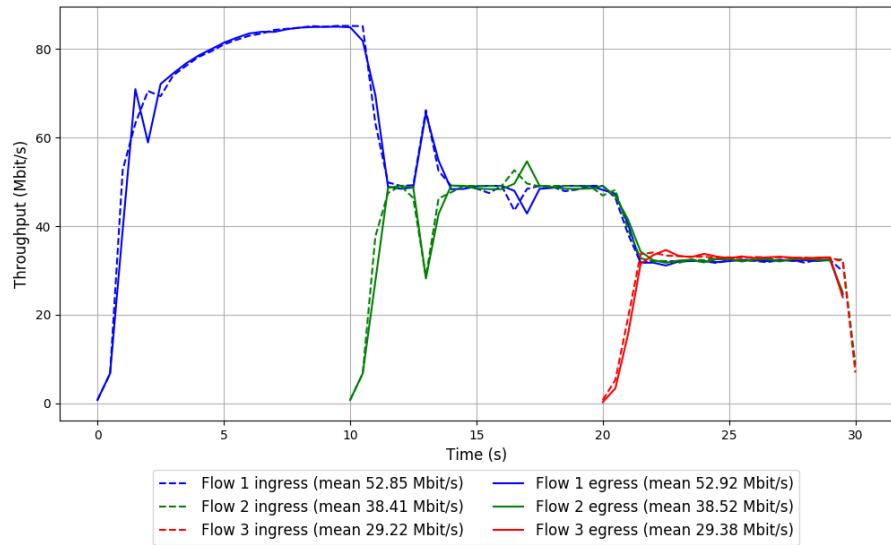


Run 4: Statistics of TCP Cubic

```
Start at: 2018-02-13 14:49:01
End at: 2018-02-13 14:49:31
Local clock offset: -3.714 ms
Remote clock offset: 0.606 ms

# Below is generated by plot.py at 2018-02-13 21:27:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.09 Mbit/s
95th percentile per-packet one-way delay: 114.907 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 114.576 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 114.826 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 115.252 ms
Loss rate: 3.61%
```

Run 4: Report of TCP Cubic — Data Link

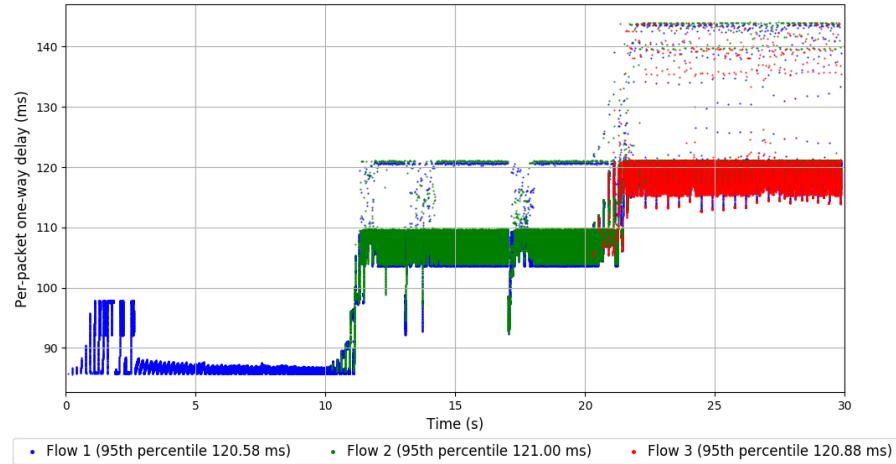
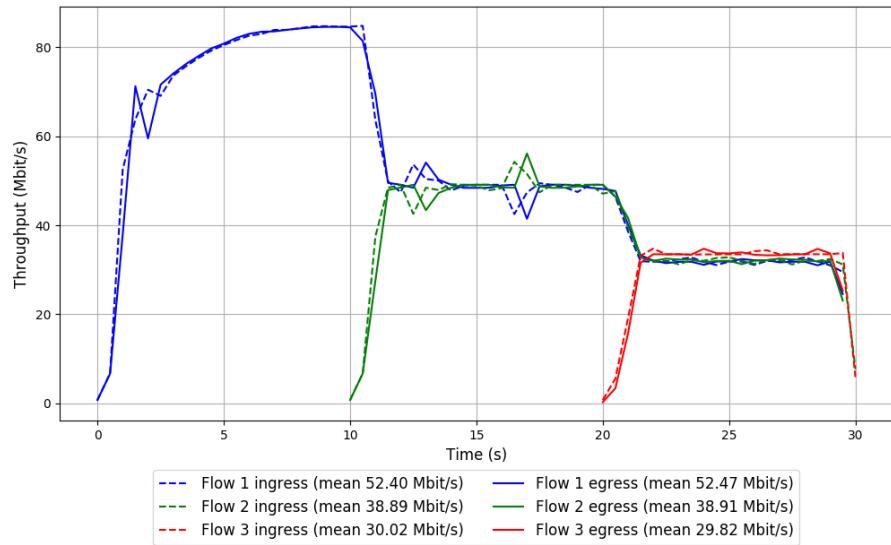


Run 5: Statistics of TCP Cubic

```
Start at: 2018-02-13 15:12:34
End at: 2018-02-13 15:13:04
Local clock offset: -5.788 ms
Remote clock offset: -4.679 ms

# Below is generated by plot.py at 2018-02-13 21:27:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.03 Mbit/s
95th percentile per-packet one-way delay: 120.858 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 52.47 Mbit/s
95th percentile per-packet one-way delay: 120.584 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 121.002 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 29.82 Mbit/s
95th percentile per-packet one-way delay: 120.876 ms
Loss rate: 3.63%
```

Run 5: Report of TCP Cubic — Data Link

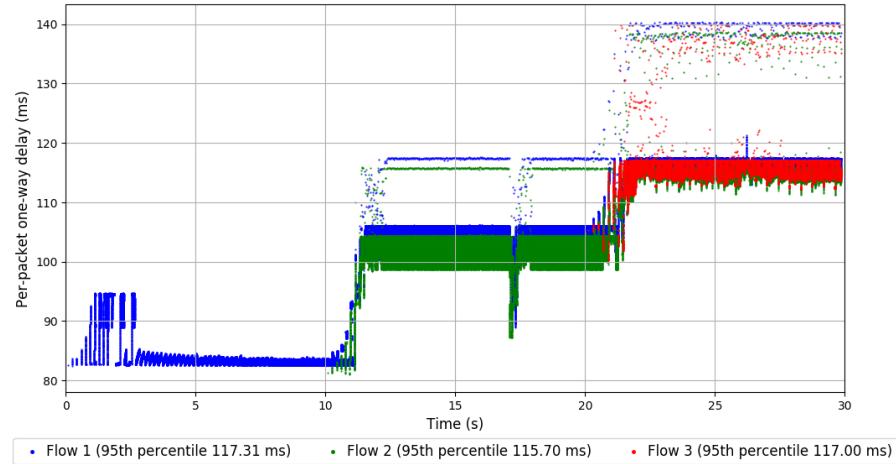
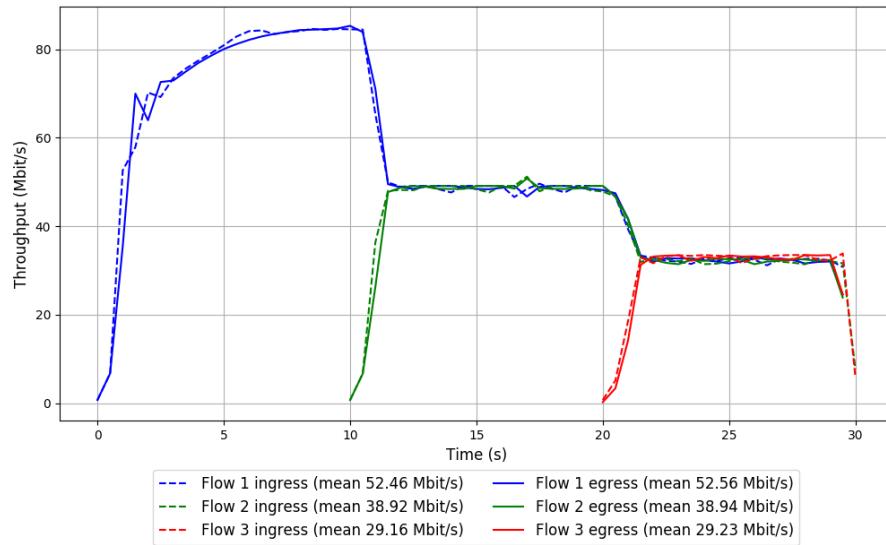


Run 6: Statistics of TCP Cubic

```
Start at: 2018-02-13 15:36:11
End at: 2018-02-13 15:36:41
Local clock offset: -6.132 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2018-02-13 21:27:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.96 Mbit/s
95th percentile per-packet one-way delay: 117.246 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 52.56 Mbit/s
95th percentile per-packet one-way delay: 117.312 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 38.94 Mbit/s
95th percentile per-packet one-way delay: 115.698 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 117.002 ms
Loss rate: 3.70%
```

Run 6: Report of TCP Cubic — Data Link

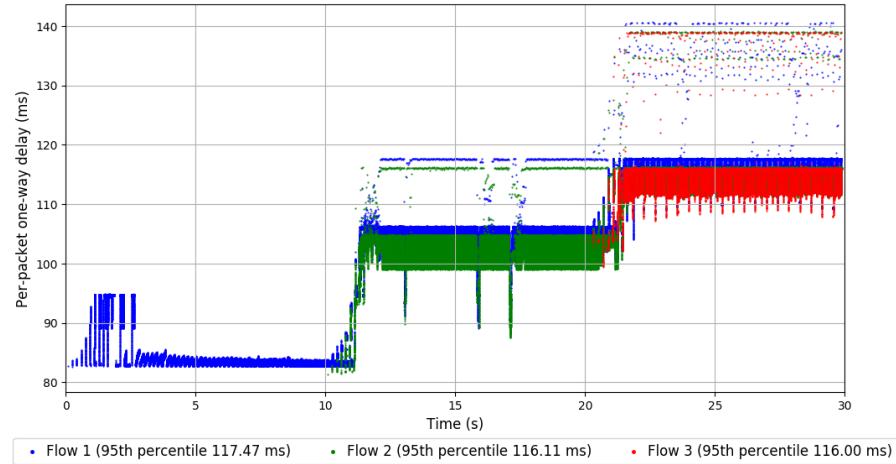
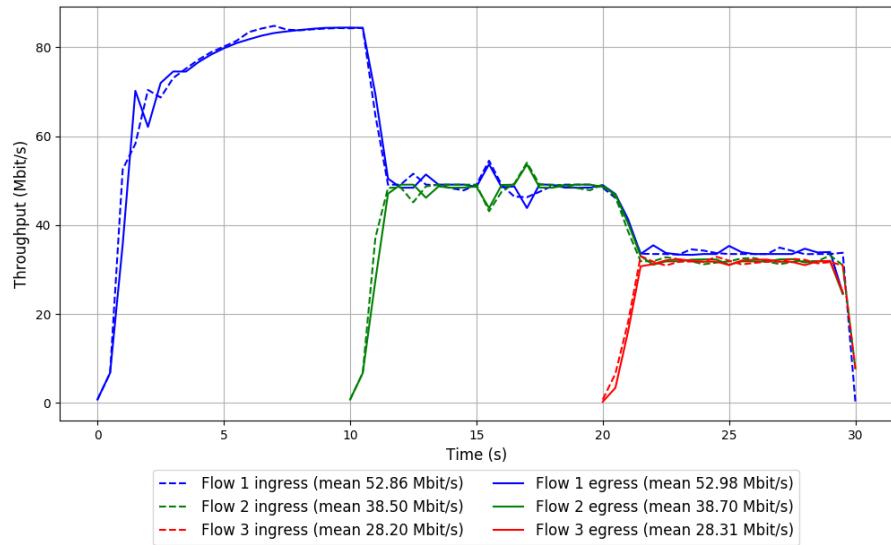


Run 7: Statistics of TCP Cubic

```
Start at: 2018-02-13 15:59:43
End at: 2018-02-13 16:00:13
Local clock offset: -3.669 ms
Remote clock offset: 0.321 ms

# Below is generated by plot.py at 2018-02-13 21:28:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.91 Mbit/s
95th percentile per-packet one-way delay: 116.147 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 52.98 Mbit/s
95th percentile per-packet one-way delay: 117.465 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 116.112 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 28.31 Mbit/s
95th percentile per-packet one-way delay: 115.999 ms
Loss rate: 3.77%
```

Run 7: Report of TCP Cubic — Data Link

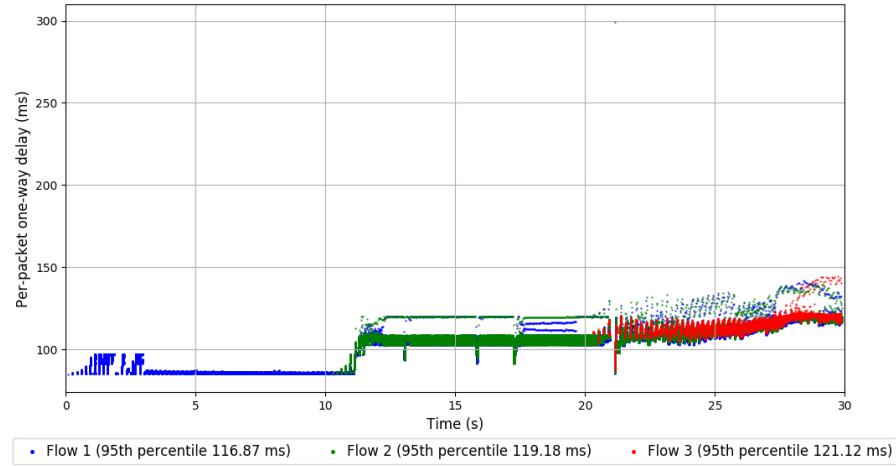
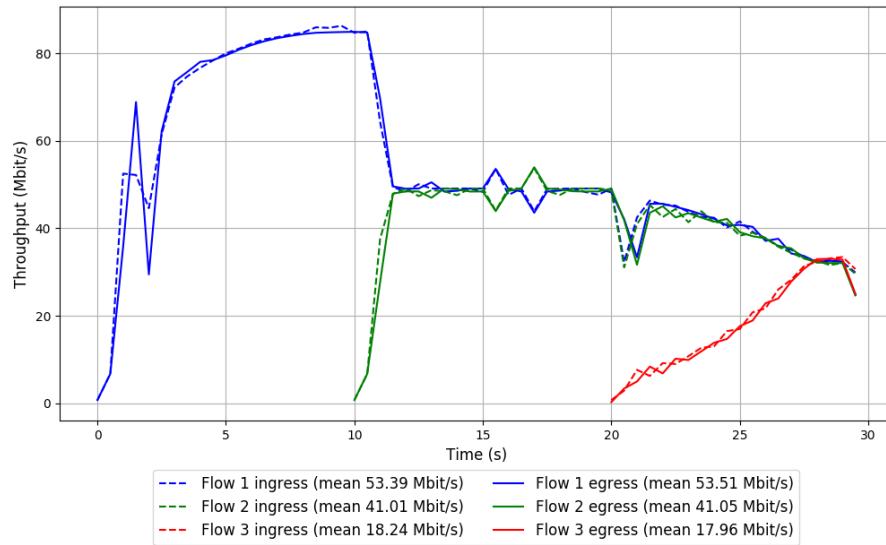


Run 8: Statistics of TCP Cubic

```
Start at: 2018-02-13 16:23:31
End at: 2018-02-13 16:24:01
Local clock offset: -6.087 ms
Remote clock offset: -3.493 ms

# Below is generated by plot.py at 2018-02-13 21:28:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 119.227 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 53.51 Mbit/s
95th percentile per-packet one-way delay: 116.870 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 41.05 Mbit/s
95th percentile per-packet one-way delay: 119.176 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 17.96 Mbit/s
95th percentile per-packet one-way delay: 121.116 ms
Loss rate: 3.65%
```

Run 8: Report of TCP Cubic — Data Link

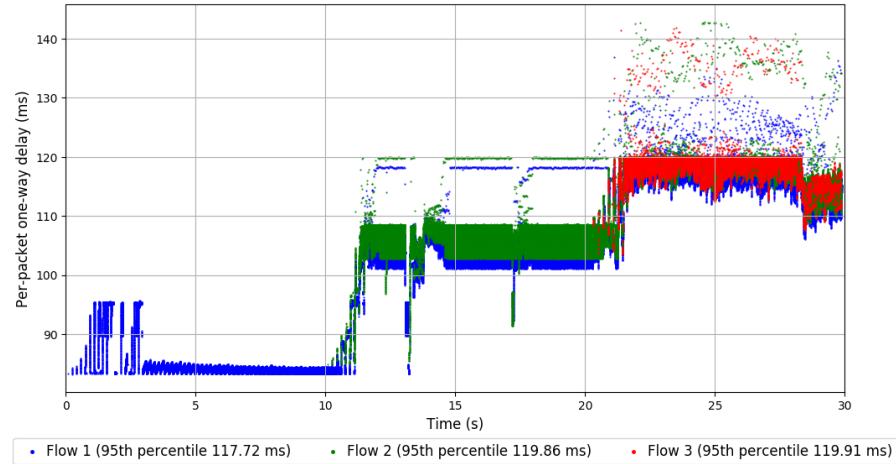
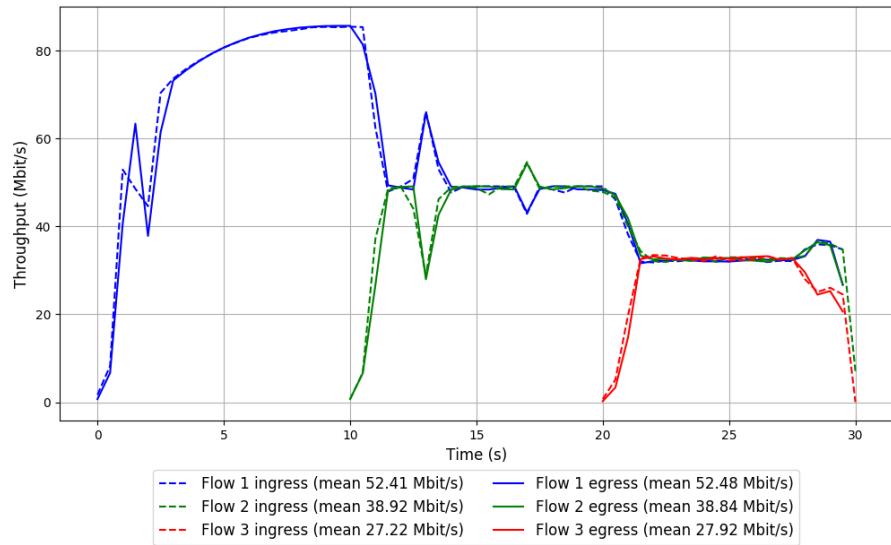


Run 9: Statistics of TCP Cubic

```
Start at: 2018-02-13 16:47:10
End at: 2018-02-13 16:47:40
Local clock offset: -7.323 ms
Remote clock offset: -3.676 ms

# Below is generated by plot.py at 2018-02-13 21:28:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.39 Mbit/s
95th percentile per-packet one-way delay: 119.761 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 52.48 Mbit/s
95th percentile per-packet one-way delay: 117.717 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.84 Mbit/s
95th percentile per-packet one-way delay: 119.859 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 27.92 Mbit/s
95th percentile per-packet one-way delay: 119.913 ms
Loss rate: 1.94%
```

Run 9: Report of TCP Cubic — Data Link

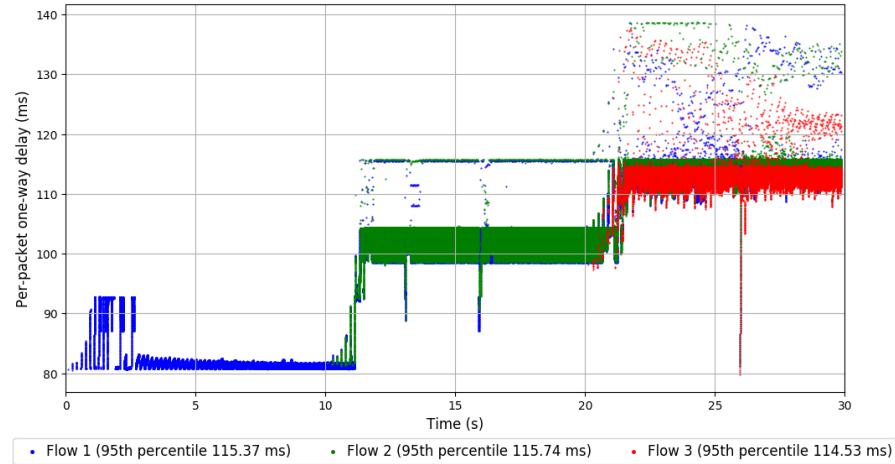
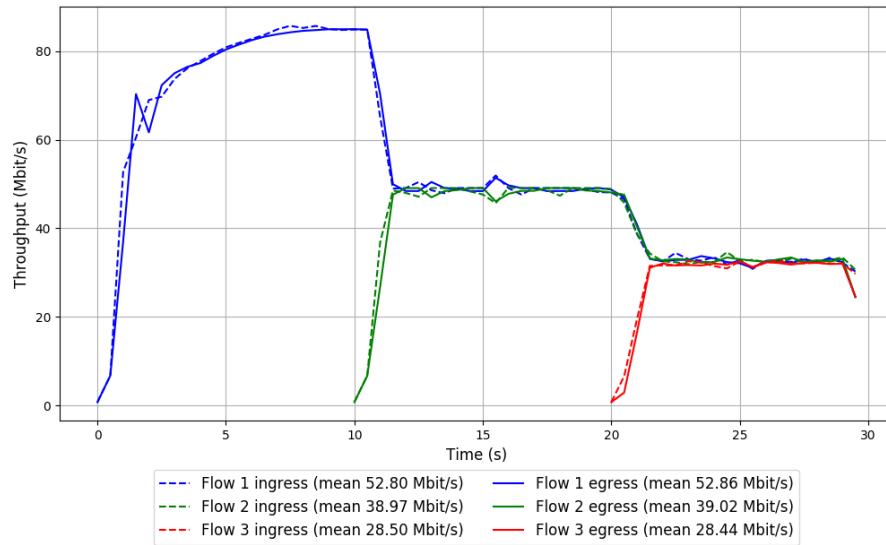


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-02-13 17:10:56
End at: 2018-02-13 17:11:26
Local clock offset: -8.221 ms
Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.07 Mbit/s
95th percentile per-packet one-way delay: 115.565 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 52.86 Mbit/s
95th percentile per-packet one-way delay: 115.373 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 39.02 Mbit/s
95th percentile per-packet one-way delay: 115.742 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 28.44 Mbit/s
95th percentile per-packet one-way delay: 114.530 ms
Loss rate: 2.23%
```

Run 10: Report of TCP Cubic — Data Link

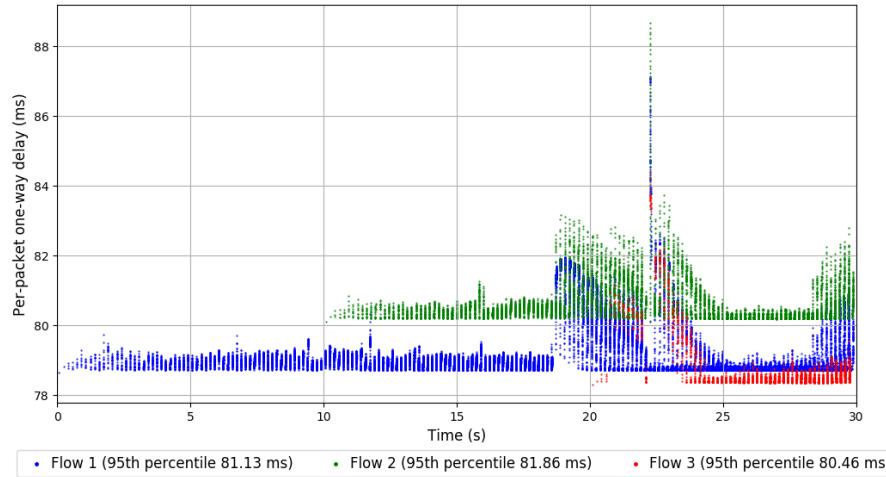
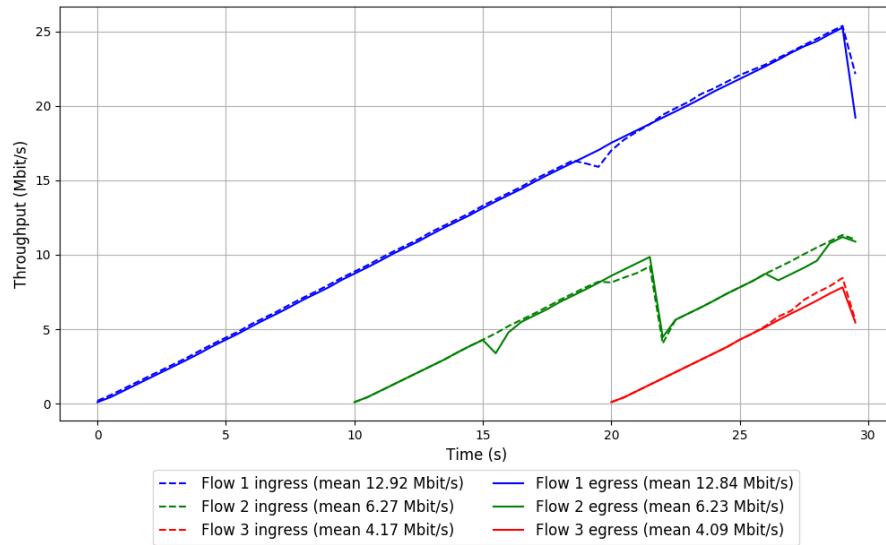


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-02-13 13:39:30
End at: 2018-02-13 13:40:00
Local clock offset: -3.516 ms
Remote clock offset: 1.267 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.30 Mbit/s
95th percentile per-packet one-way delay: 81.448 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 12.84 Mbit/s
95th percentile per-packet one-way delay: 81.131 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 6.23 Mbit/s
95th percentile per-packet one-way delay: 81.859 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 80.456 ms
Loss rate: 3.42%
```

Run 1: Report of LEDBAT — Data Link

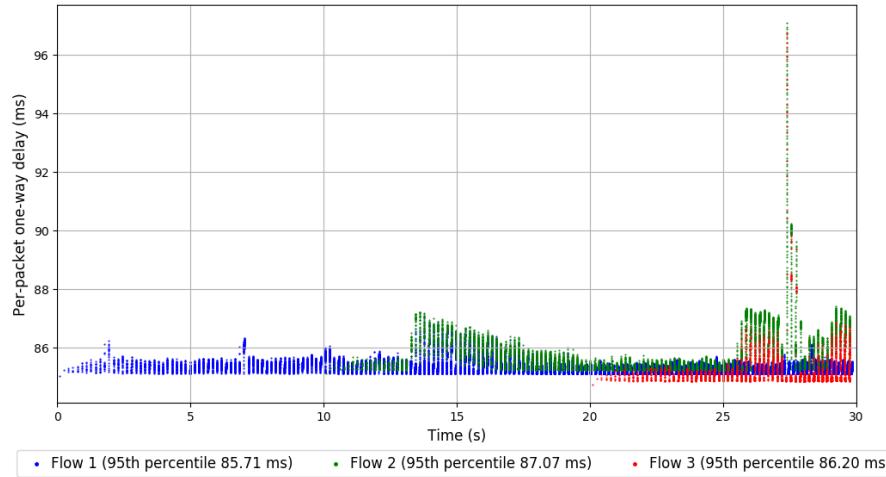
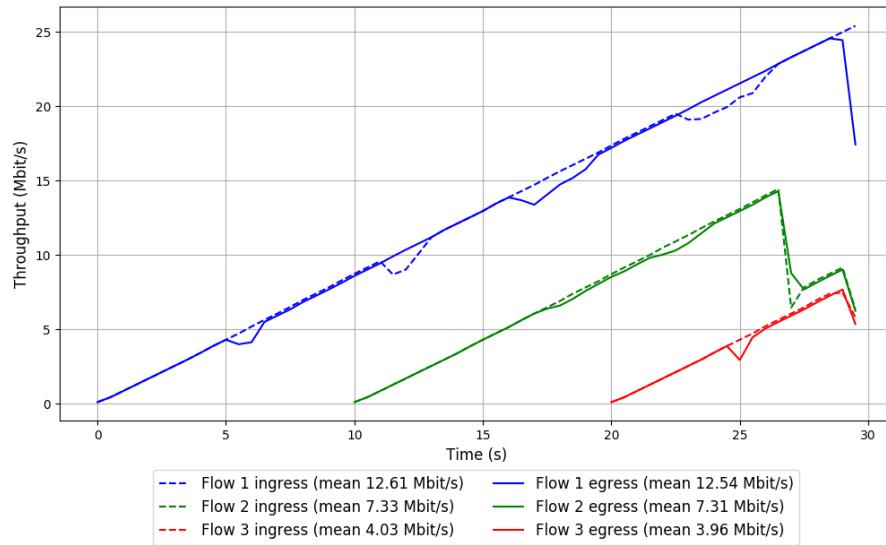


Run 2: Statistics of LEDBAT

```
Start at: 2018-02-13 14:03:09
End at: 2018-02-13 14:03:39
Local clock offset: -3.63 ms
Remote clock offset: -4.028 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.65 Mbit/s
95th percentile per-packet one-way delay: 86.403 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 85.711 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 87.066 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 86.201 ms
Loss rate: 3.49%
```

Run 2: Report of LEDBAT — Data Link

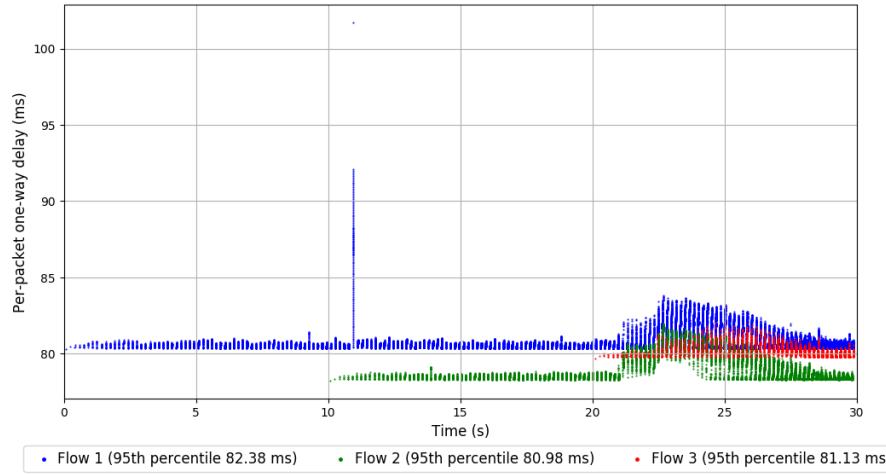
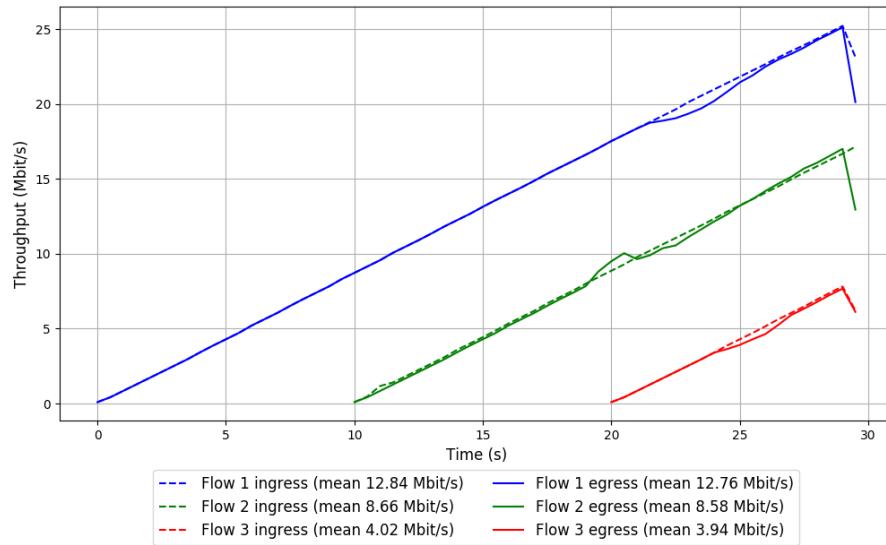


Run 3: Statistics of LEDBAT

```
Start at: 2018-02-13 14:26:47
End at: 2018-02-13 14:27:17
Local clock offset: -3.646 ms
Remote clock offset: 0.646 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.75 Mbit/s
95th percentile per-packet one-way delay: 82.065 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 82.376 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.58 Mbit/s
95th percentile per-packet one-way delay: 80.979 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 3.94 Mbit/s
95th percentile per-packet one-way delay: 81.128 ms
Loss rate: 3.44%
```

Run 3: Report of LEDBAT — Data Link

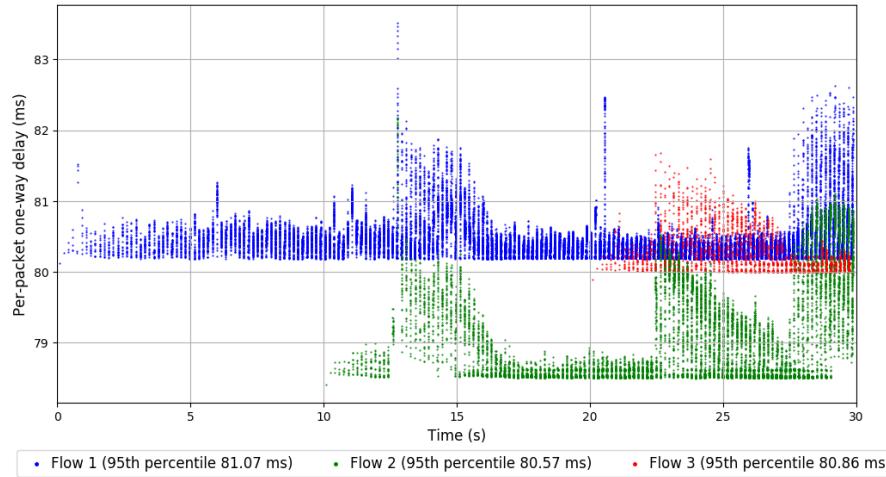
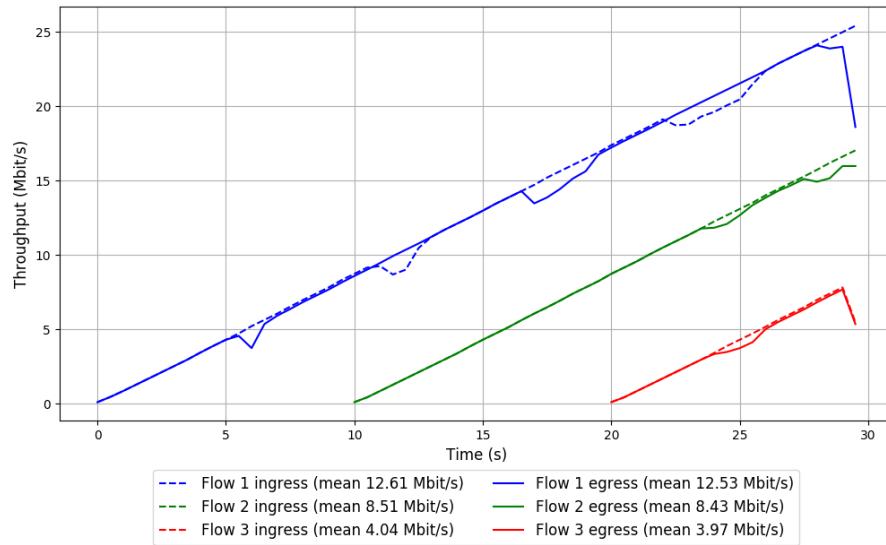


Run 4: Statistics of LEDBAT

```
Start at: 2018-02-13 14:50:19
End at: 2018-02-13 14:50:49
Local clock offset: -3.671 ms
Remote clock offset: 0.623 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.42 Mbit/s
95th percentile per-packet one-way delay: 80.911 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 81.069 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 80.570 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 80.856 ms
Loss rate: 3.50%
```

Run 4: Report of LEDBAT — Data Link

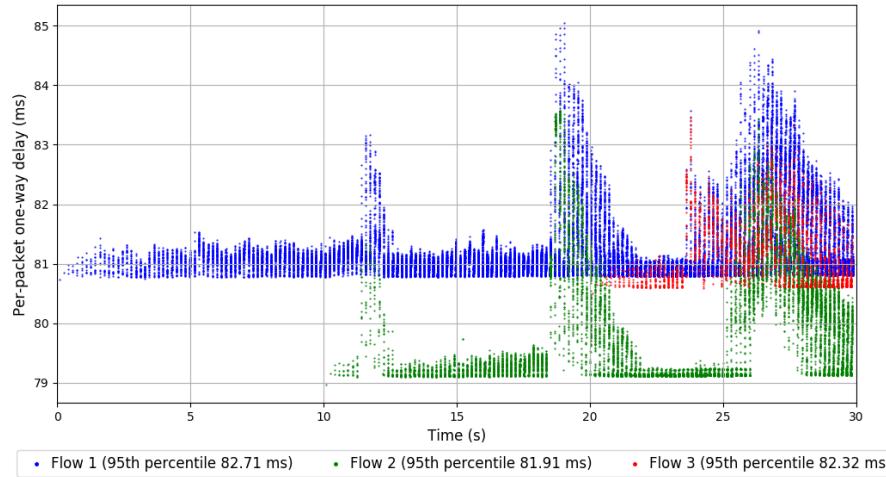
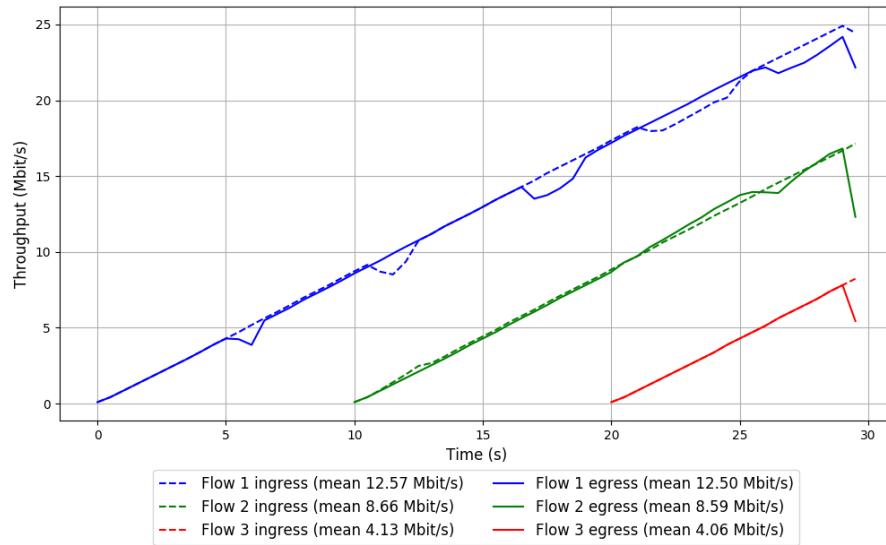


Run 5: Statistics of LEDBAT

```
Start at: 2018-02-13 15:13:54
End at: 2018-02-13 15:14:24
Local clock offset: -5.976 ms
Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 82.500 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 82.714 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 81.911 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 82.324 ms
Loss rate: 3.41%
```

Run 5: Report of LEDBAT — Data Link

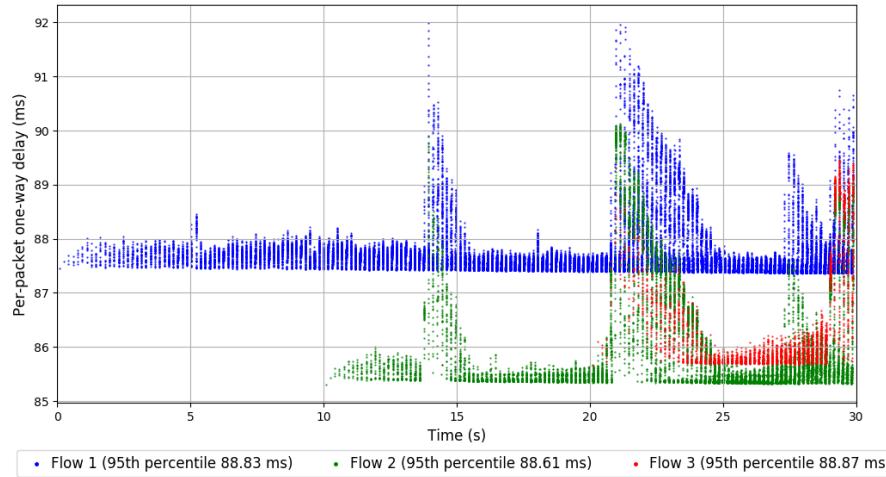
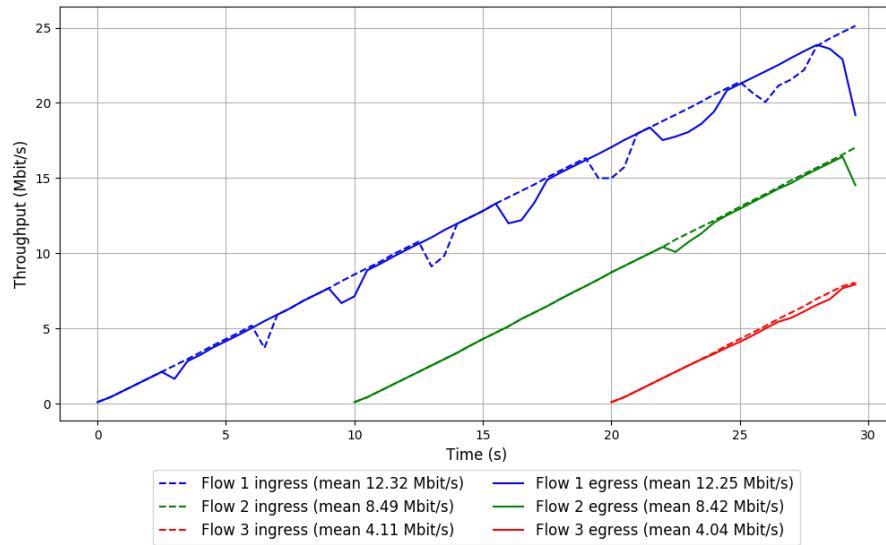


Run 6: Statistics of LEDBAT

```
Start at: 2018-02-13 15:37:30
End at: 2018-02-13 15:38:00
Local clock offset: -5.801 ms
Remote clock offset: -4.597 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.16 Mbit/s
95th percentile per-packet one-way delay: 88.756 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 12.25 Mbit/s
95th percentile per-packet one-way delay: 88.826 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 8.42 Mbit/s
95th percentile per-packet one-way delay: 88.605 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 88.872 ms
Loss rate: 3.39%
```

Run 6: Report of LEDBAT — Data Link

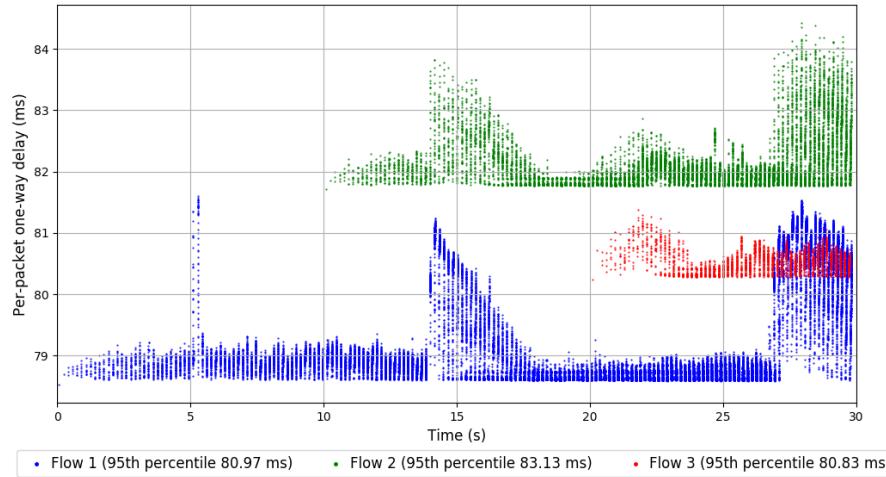
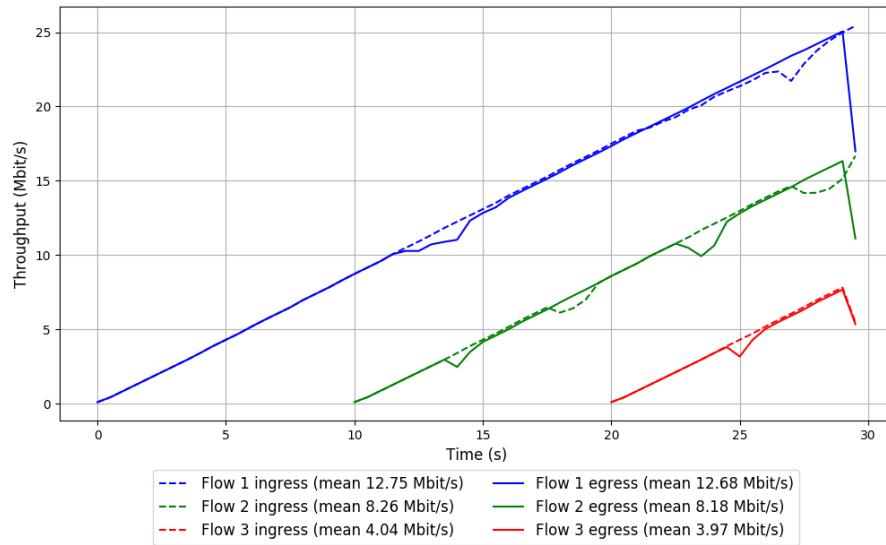


Run 7: Statistics of LEDBAT

```
Start at: 2018-02-13 16:01:02
End at: 2018-02-13 16:01:32
Local clock offset: -3.727 ms
Remote clock offset: 1.24 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.39 Mbit/s
95th percentile per-packet one-way delay: 82.383 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 80.969 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 83.129 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 80.833 ms
Loss rate: 3.50%
```

Run 7: Report of LEDBAT — Data Link

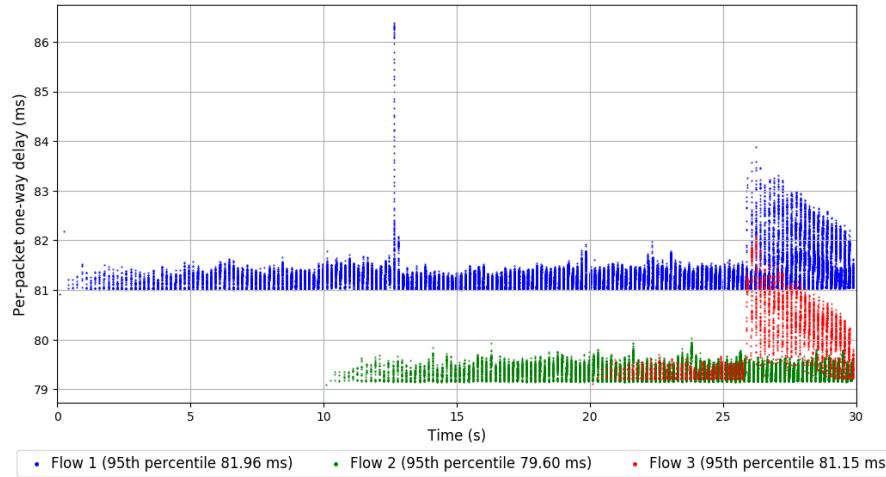
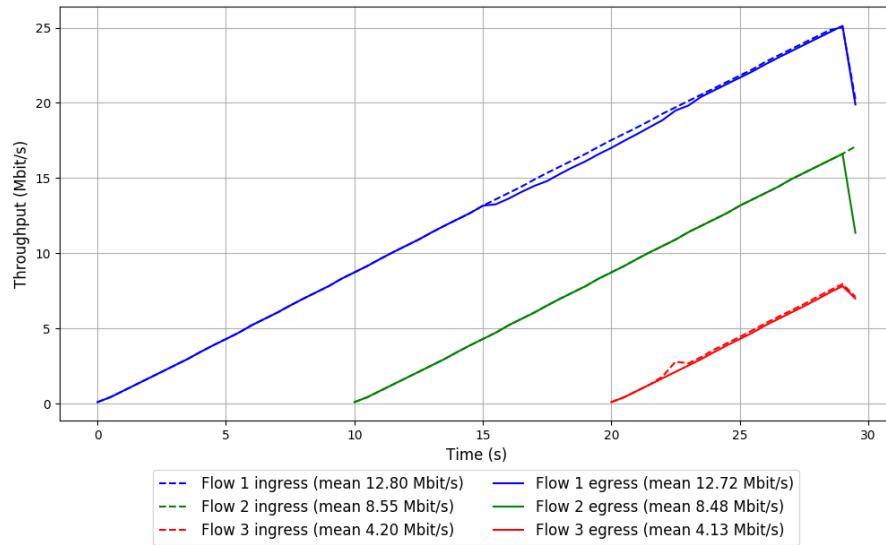


Run 8: Statistics of LEDBAT

```
Start at: 2018-02-13 16:24:50
End at: 2018-02-13 16:25:20
Local clock offset: -6.154 ms
Remote clock offset: 0.49 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.69 Mbit/s
95th percentile per-packet one-way delay: 81.705 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.72 Mbit/s
95th percentile per-packet one-way delay: 81.958 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 79.600 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 81.154 ms
Loss rate: 3.37%
```

Run 8: Report of LEDBAT — Data Link

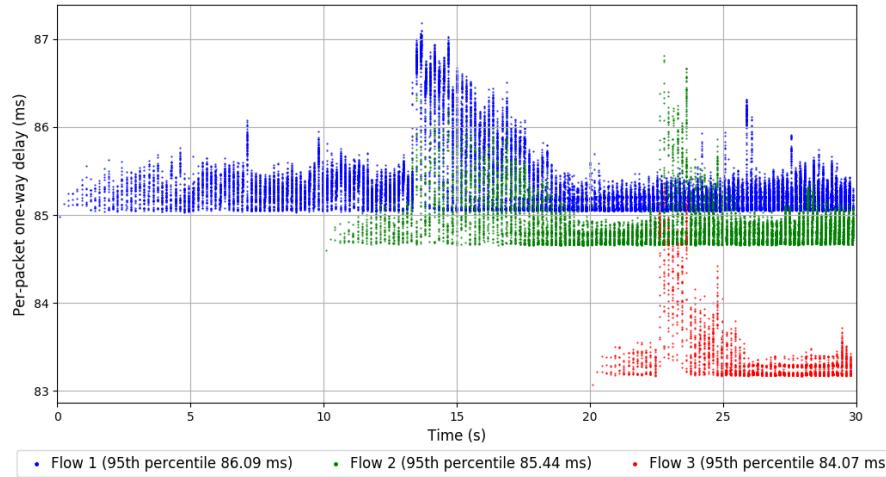
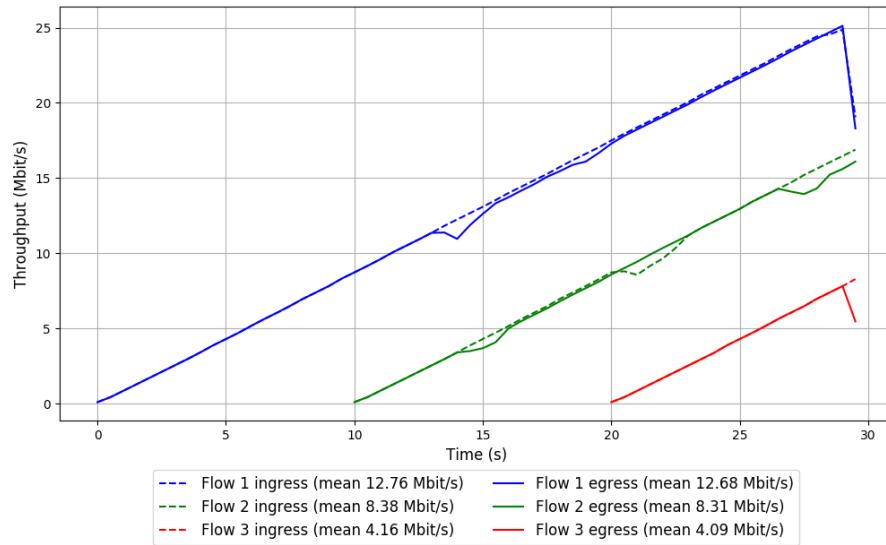


Run 9: Statistics of LEDBAT

```
Start at: 2018-02-13 16:48:29
End at: 2018-02-13 16:48:59
Local clock offset: -7.321 ms
Remote clock offset: -3.648 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 85.845 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 86.092 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 85.436 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 84.074 ms
Loss rate: 3.44%
```

Run 9: Report of LEDBAT — Data Link

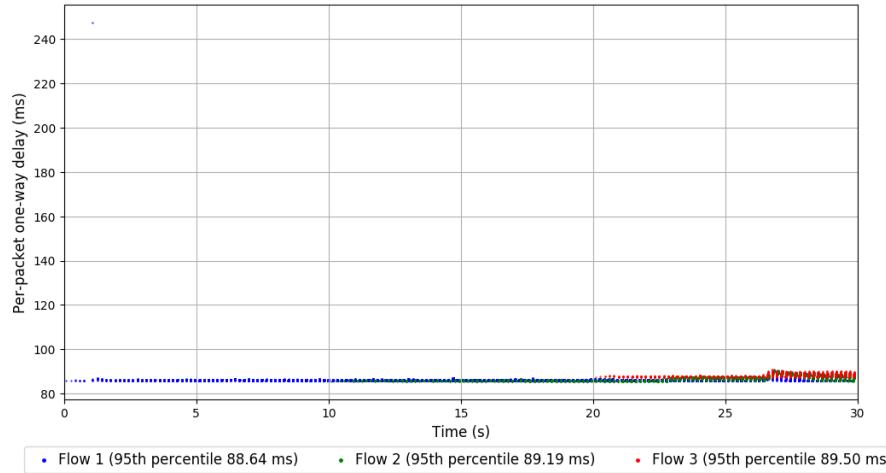
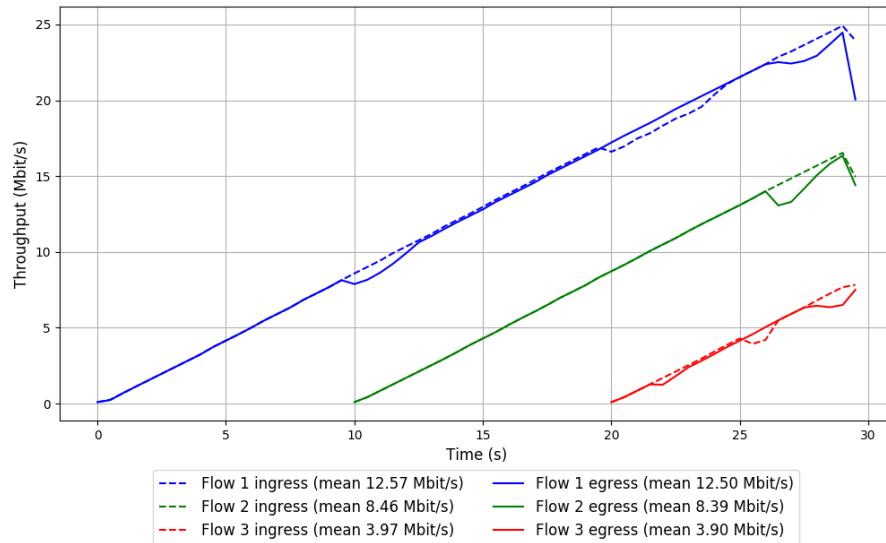


Run 10: Statistics of LEDBAT

```
Start at: 2018-02-13 17:12:15
End at: 2018-02-13 17:12:45
Local clock offset: -8.28 ms
Remote clock offset: -4.568 ms

# Below is generated by plot.py at 2018-02-13 21:28:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 88.966 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 88.639 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 89.186 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 89.499 ms
Loss rate: 3.48%
```

Run 10: Report of LEDBAT — Data Link

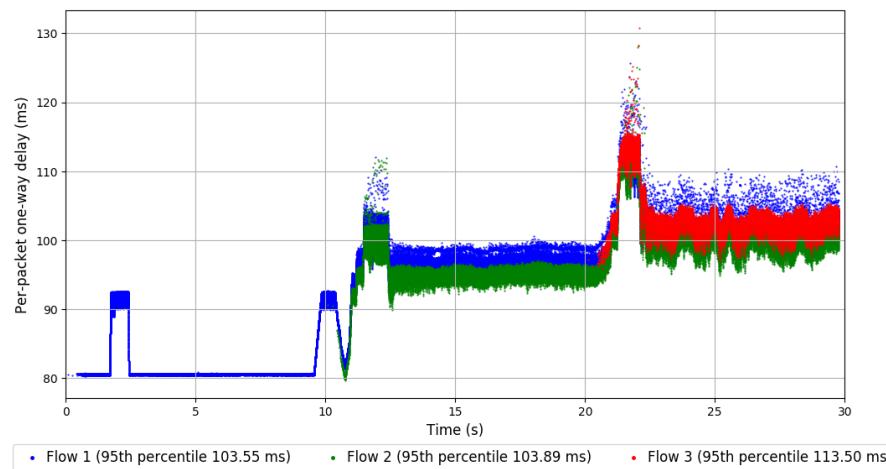
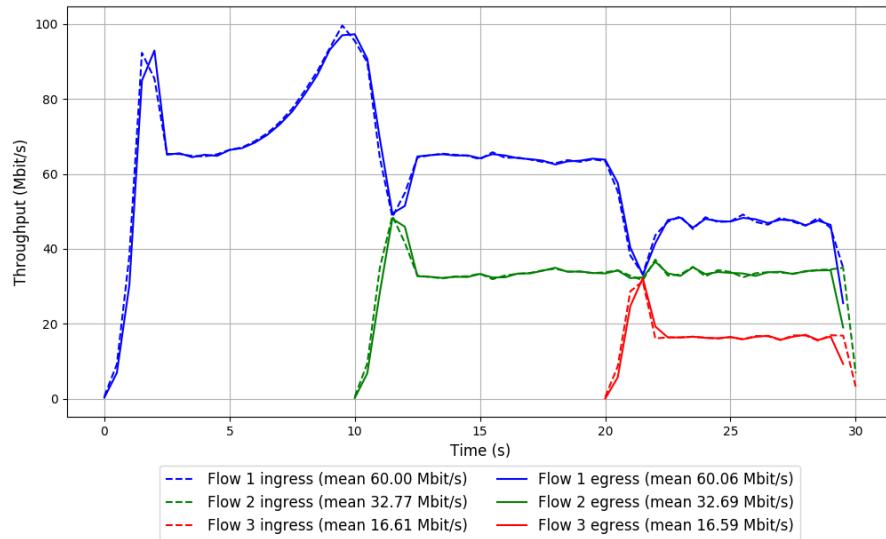


```
Run 1: Statistics of PCC
```

```
Start at: 2018-02-13 13:50:04
End at: 2018-02-13 13:50:34
Local clock offset: -3.369 ms
Remote clock offset: 1.909 ms

# Below is generated by plot.py at 2018-02-13 21:29:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 104.185 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 60.06 Mbit/s
95th percentile per-packet one-way delay: 103.547 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 32.69 Mbit/s
95th percentile per-packet one-way delay: 103.888 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 16.59 Mbit/s
95th percentile per-packet one-way delay: 113.499 ms
Loss rate: 4.27%
```

Run 1: Report of PCC — Data Link

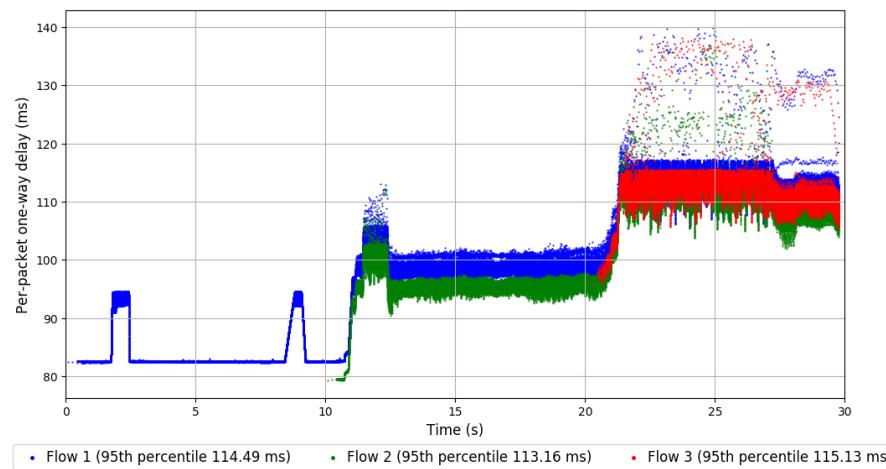
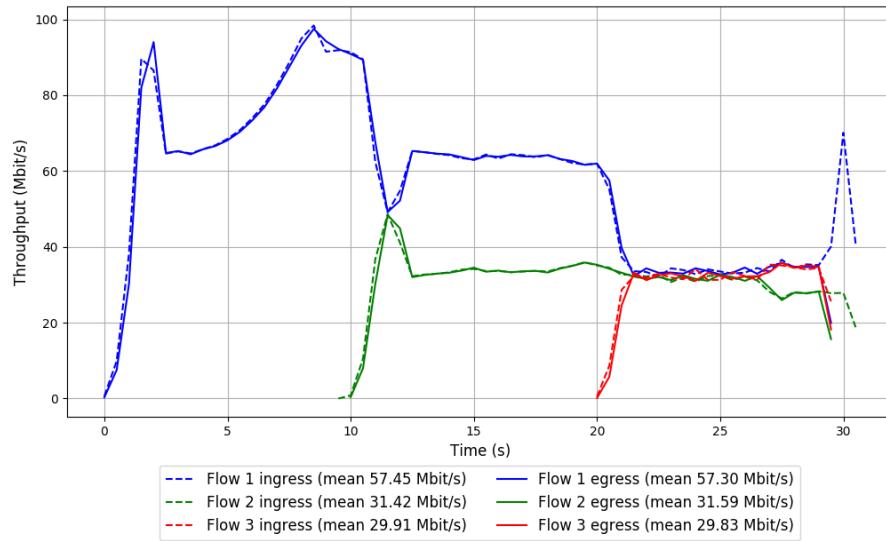


Run 2: Statistics of PCC

```
Start at: 2018-02-13 14:13:43
End at: 2018-02-13 14:14:13
Local clock offset: -3.623 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-02-13 21:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.97 Mbit/s
95th percentile per-packet one-way delay: 114.440 ms
Loss rate: 4.02%
-- Flow 1:
Average throughput: 57.30 Mbit/s
95th percentile per-packet one-way delay: 114.488 ms
Loss rate: 3.94%
-- Flow 2:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 113.161 ms
Loss rate: 4.95%
-- Flow 3:
Average throughput: 29.83 Mbit/s
95th percentile per-packet one-way delay: 115.126 ms
Loss rate: 2.42%
```

Run 2: Report of PCC — Data Link

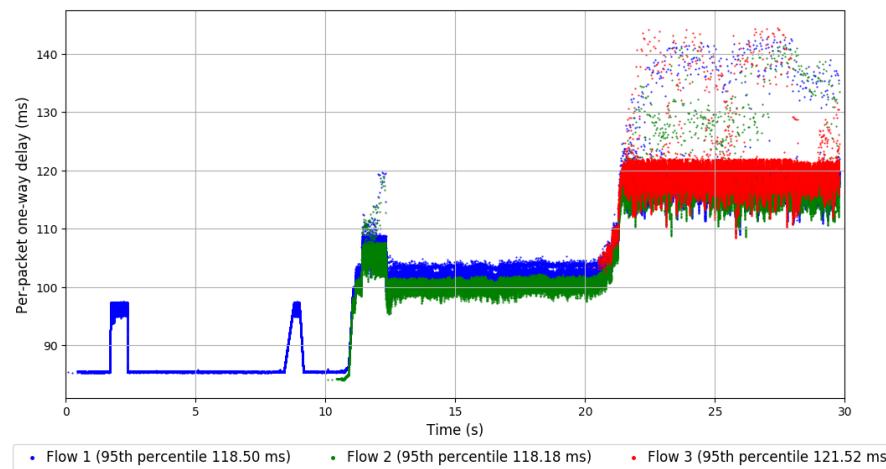
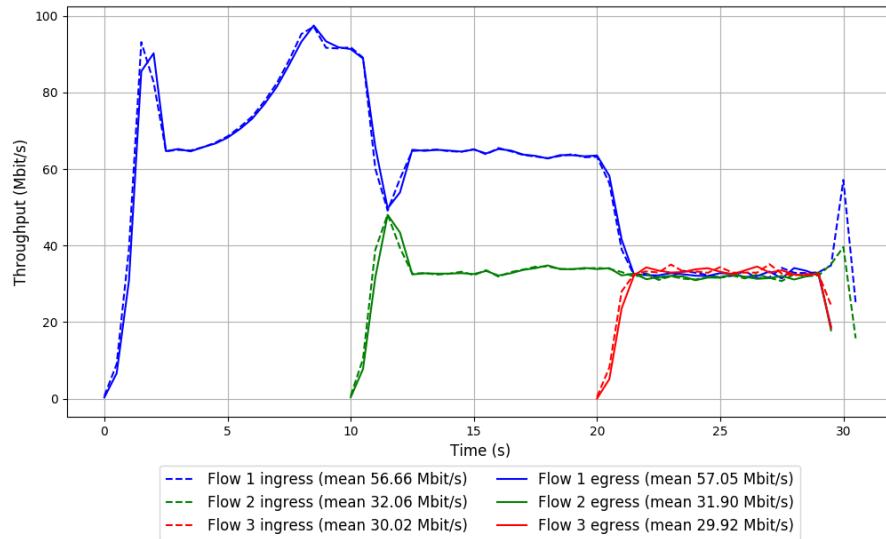


Run 3: Statistics of PCC

```
Start at: 2018-02-13 14:37:17
End at: 2018-02-13 14:37:47
Local clock offset: -3.668 ms
Remote clock offset: -4.998 ms

# Below is generated by plot.py at 2018-02-13 21:29:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.94 Mbit/s
95th percentile per-packet one-way delay: 119.685 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 118.505 ms
Loss rate: 3.04%
-- Flow 2:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 118.178 ms
Loss rate: 5.98%
-- Flow 3:
Average throughput: 29.92 Mbit/s
95th percentile per-packet one-way delay: 121.518 ms
Loss rate: 2.33%
```

Run 3: Report of PCC — Data Link

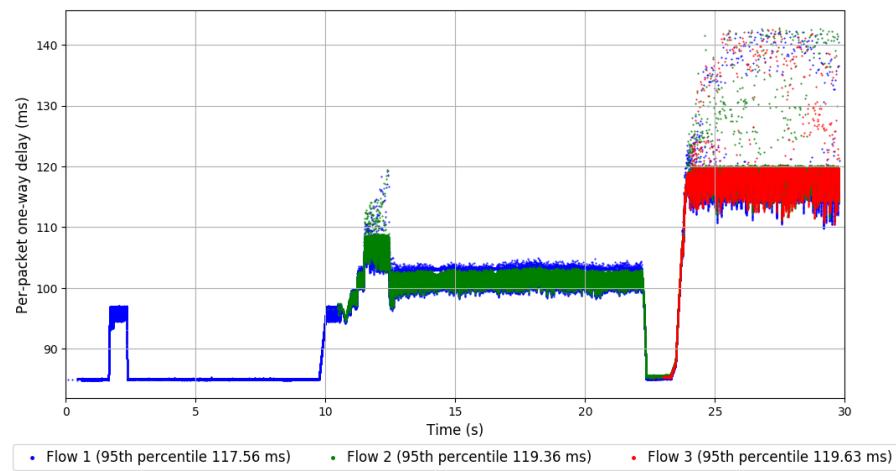
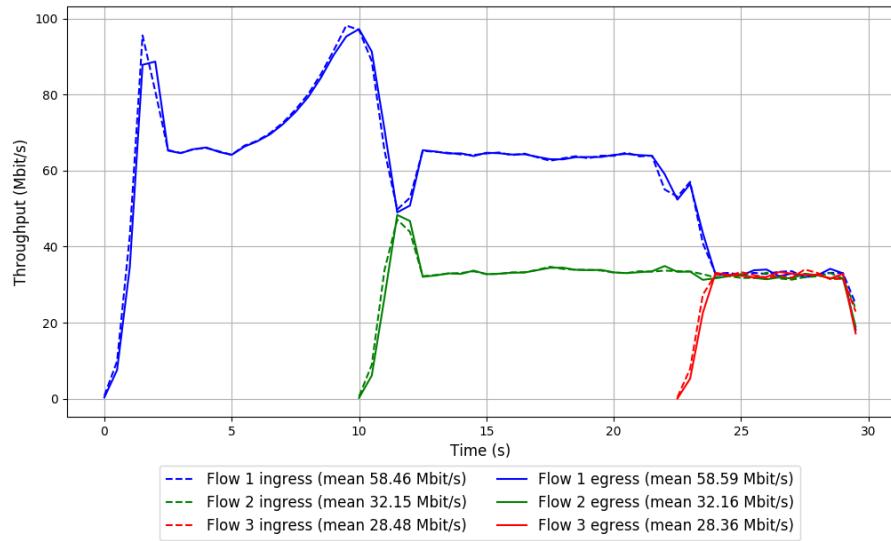


Run 4: Statistics of PCC

```
Start at: 2018-02-13 15:00:49
End at: 2018-02-13 15:01:19
Local clock offset: -3.977 ms
Remote clock offset: -3.954 ms

# Below is generated by plot.py at 2018-02-13 21:29:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.68 Mbit/s
95th percentile per-packet one-way delay: 118.832 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 58.59 Mbit/s
95th percentile per-packet one-way delay: 117.560 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 119.359 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 28.36 Mbit/s
95th percentile per-packet one-way delay: 119.632 ms
Loss rate: 3.01%
```

Run 4: Report of PCC — Data Link

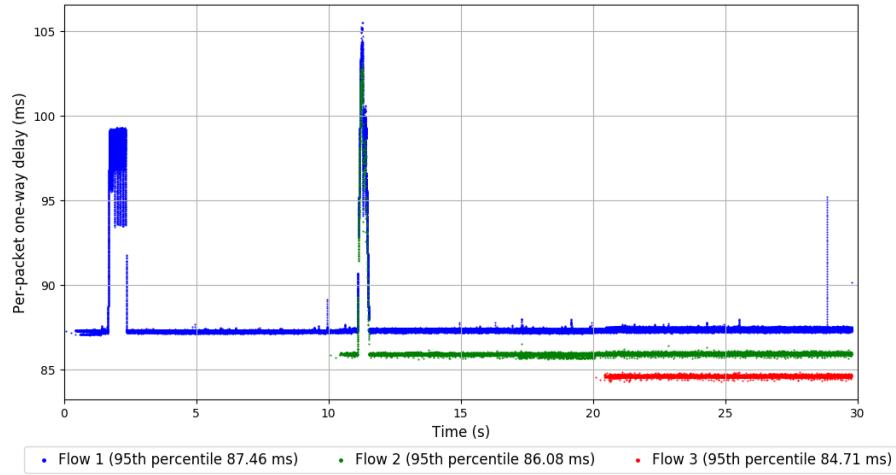
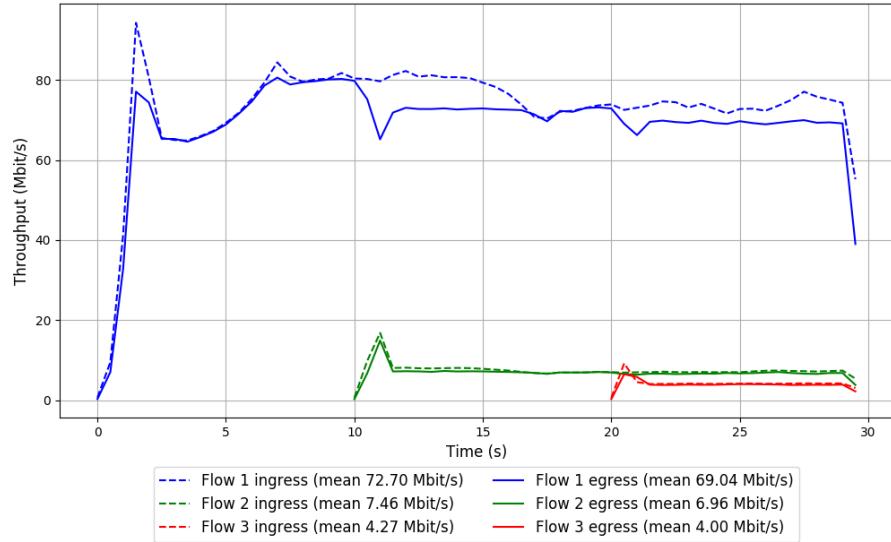


Run 5: Statistics of PCC

```
Start at: 2018-02-13 15:24:25
End at: 2018-02-13 15:24:55
Local clock offset: -6.573 ms
Remote clock offset: -4.705 ms

# Below is generated by plot.py at 2018-02-13 21:29:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.95 Mbit/s
95th percentile per-packet one-way delay: 87.457 ms
Loss rate: 5.74%
-- Flow 1:
Average throughput: 69.04 Mbit/s
95th percentile per-packet one-way delay: 87.463 ms
Loss rate: 5.57%
-- Flow 2:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 86.079 ms
Loss rate: 7.59%
-- Flow 3:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 84.711 ms
Loss rate: 7.98%
```

Run 5: Report of PCC — Data Link

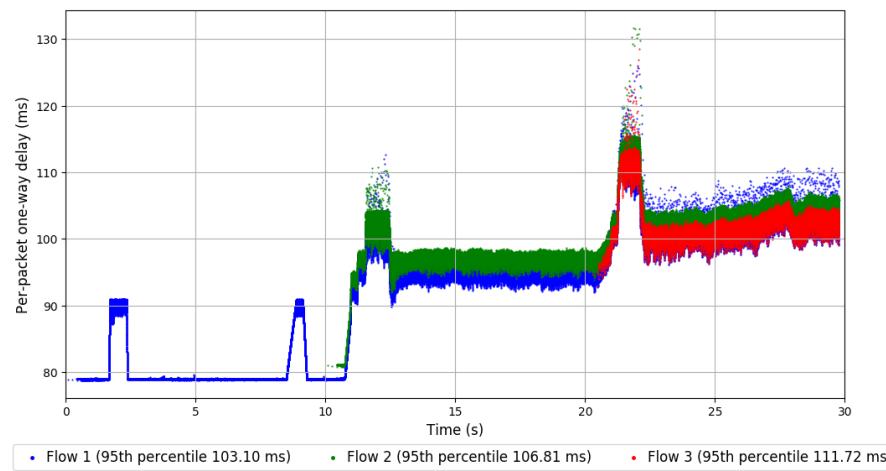
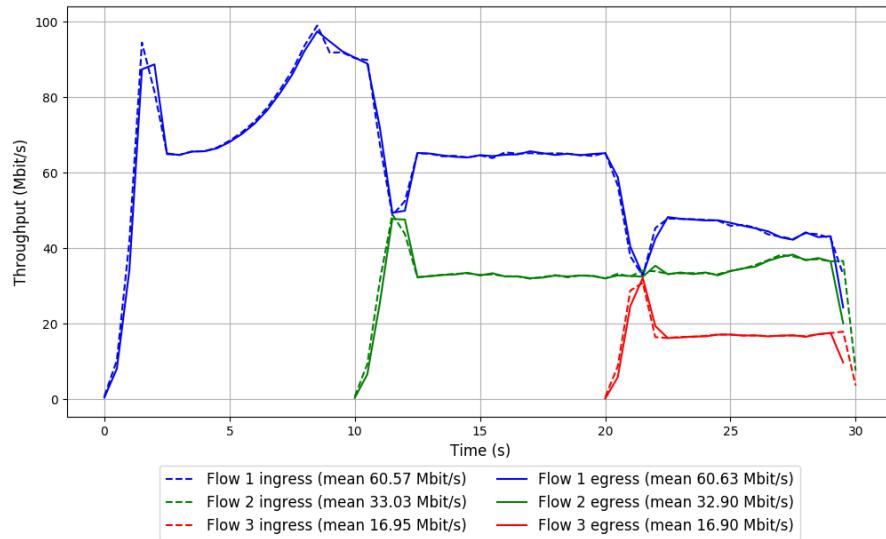


Run 6: Statistics of PCC

```
Start at: 2018-02-13 15:47:59
End at: 2018-02-13 15:48:29
Local clock offset: -4.232 ms
Remote clock offset: 0.338 ms

# Below is generated by plot.py at 2018-02-13 21:29:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.95 Mbit/s
95th percentile per-packet one-way delay: 105.356 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 103.098 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 32.90 Mbit/s
95th percentile per-packet one-way delay: 106.805 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 16.90 Mbit/s
95th percentile per-packet one-way delay: 111.724 ms
Loss rate: 4.46%
```

Run 6: Report of PCC — Data Link

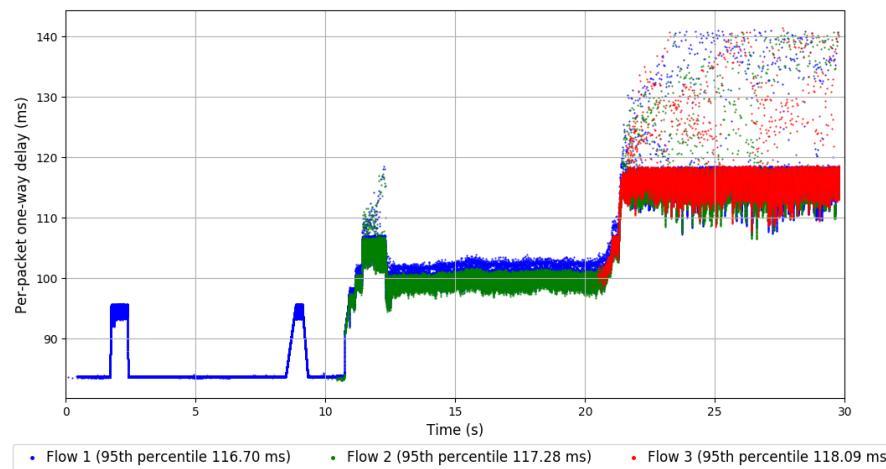
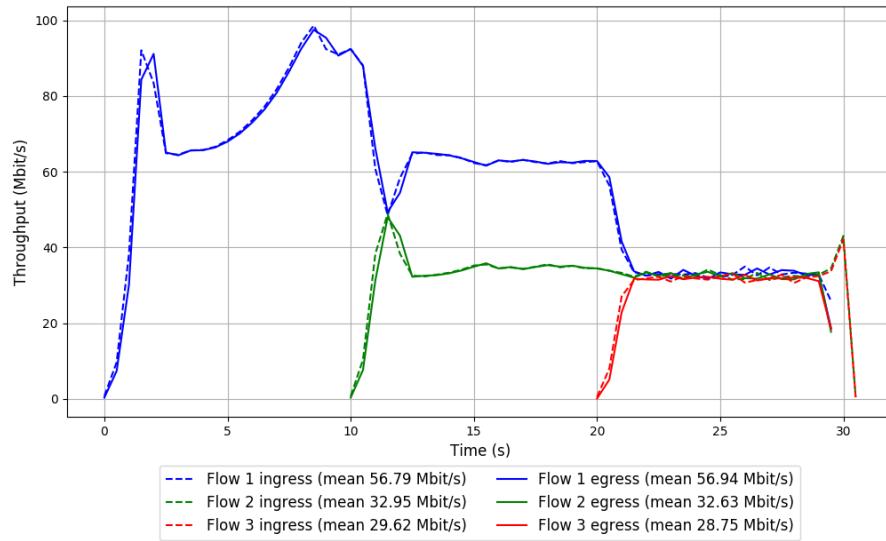


Run 7: Statistics of PCC

```
Start at: 2018-02-13 16:11:33
End at: 2018-02-13 16:12:03
Local clock offset: -4.532 ms
Remote clock offset: -3.612 ms

# Below is generated by plot.py at 2018-02-13 21:29:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 117.316 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 56.94 Mbit/s
95th percentile per-packet one-way delay: 116.698 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 117.282 ms
Loss rate: 4.95%
-- Flow 3:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 118.094 ms
Loss rate: 10.59%
```

Run 7: Report of PCC — Data Link

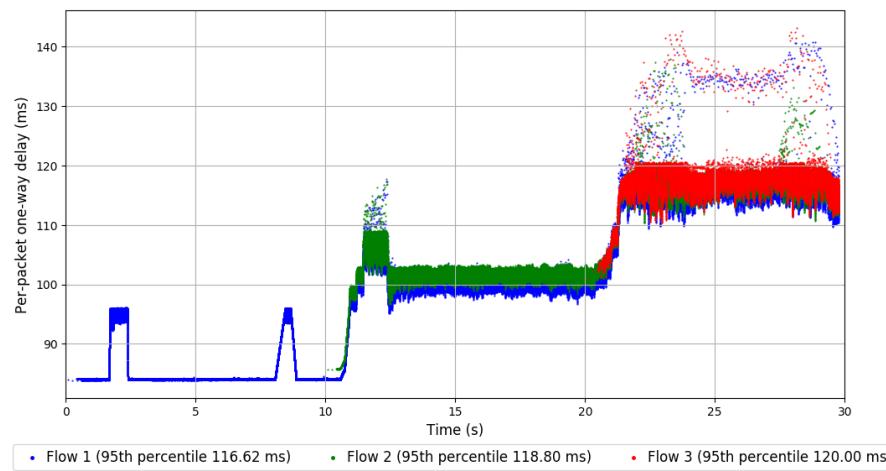
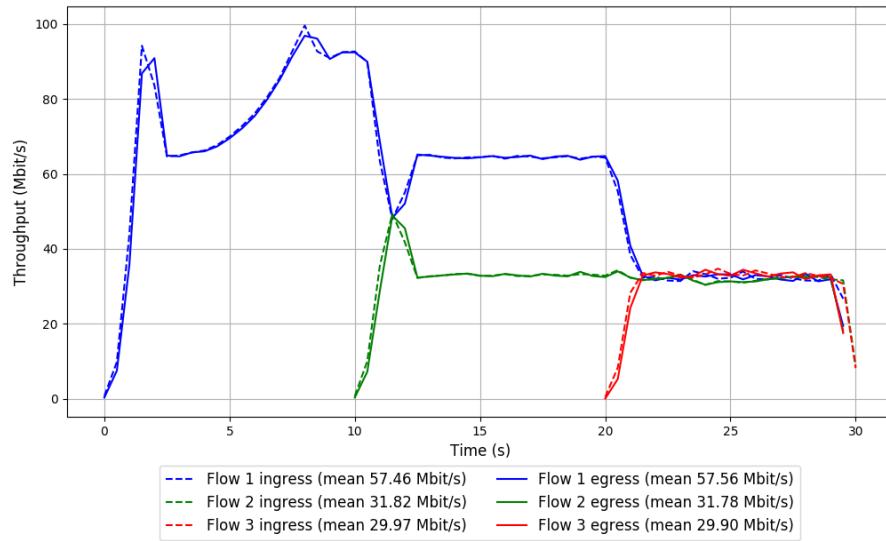


Run 8: Statistics of PCC

```
Start at: 2018-02-13 16:35:25
End at: 2018-02-13 16:35:55
Local clock offset: -6.639 ms
Remote clock offset: -4.376 ms

# Below is generated by plot.py at 2018-02-13 21:29:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.38 Mbit/s
95th percentile per-packet one-way delay: 118.494 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 57.56 Mbit/s
95th percentile per-packet one-way delay: 116.625 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 118.797 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 29.90 Mbit/s
95th percentile per-packet one-way delay: 120.003 ms
Loss rate: 4.69%
```

Run 8: Report of PCC — Data Link

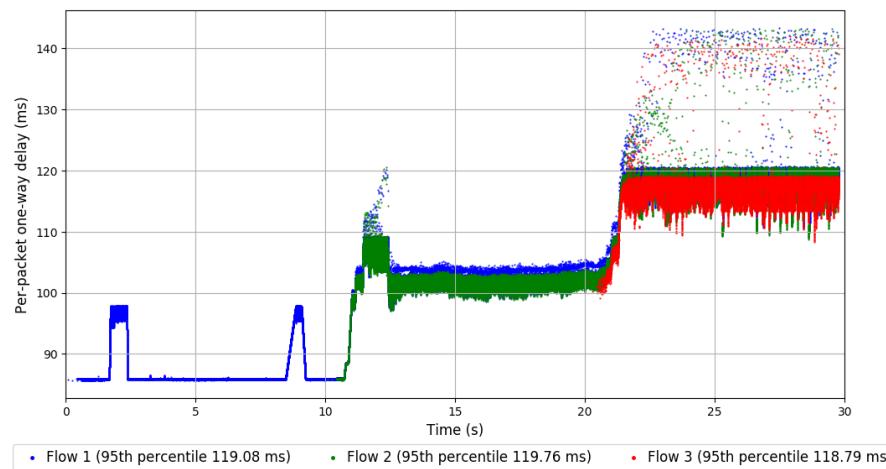
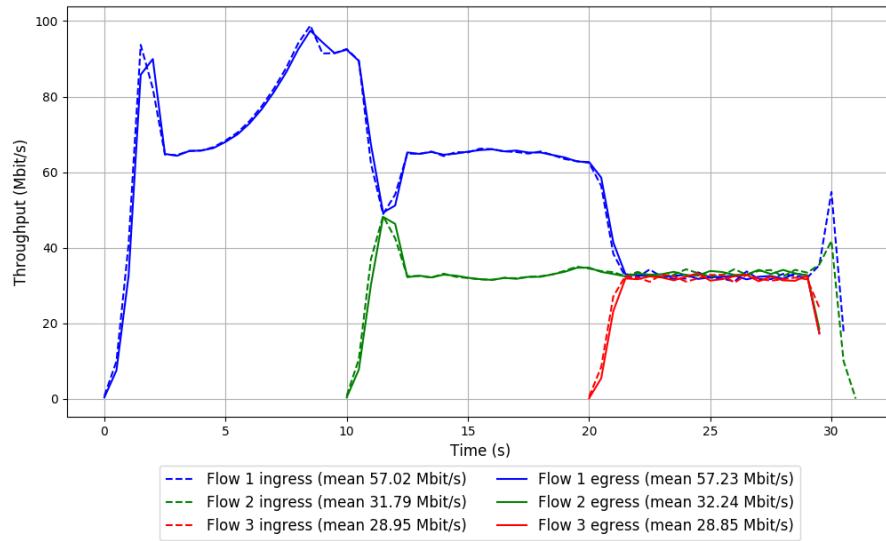


Run 9: Statistics of PCC

```
Start at: 2018-02-13 16:59:07
End at: 2018-02-13 16:59:37
Local clock offset: -7.899 ms
Remote clock offset: -4.552 ms

# Below is generated by plot.py at 2018-02-13 21:30:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.97 Mbit/s
95th percentile per-packet one-way delay: 119.285 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 57.23 Mbit/s
95th percentile per-packet one-way delay: 119.082 ms
Loss rate: 2.78%
-- Flow 2:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 119.758 ms
Loss rate: 5.75%
-- Flow 3:
Average throughput: 28.85 Mbit/s
95th percentile per-packet one-way delay: 118.794 ms
Loss rate: 2.45%
```

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-13 17:22:56

End at: 2018-02-13 17:23:26

Local clock offset: -7.385 ms

Remote clock offset: -4.697 ms

Run 10: Report of PCC — Data Link

Figure is missing

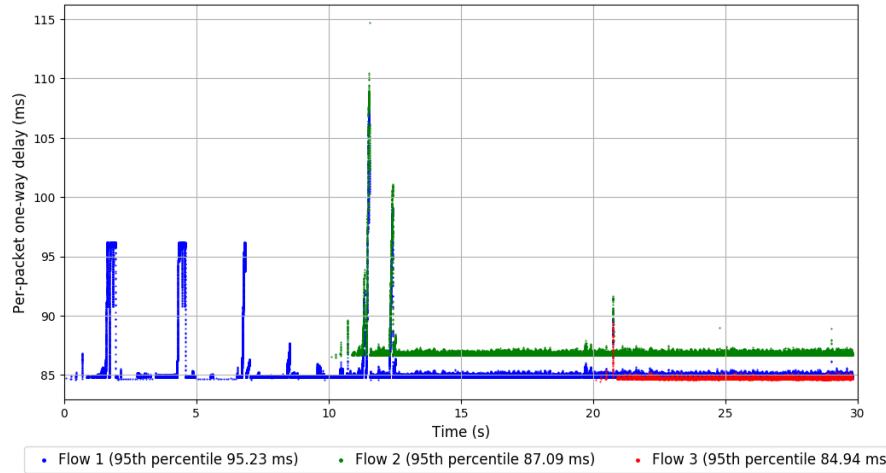
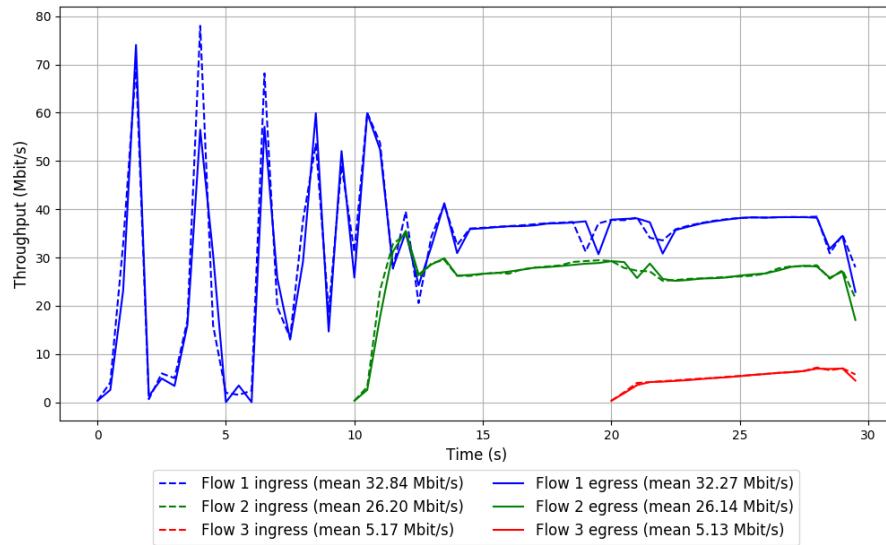
Figure is missing

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 13:31:32
End at: 2018-02-13 13:32:02
Local clock offset: -3.562 ms
Remote clock offset: -3.618 ms

# Below is generated by plot.py at 2018-02-13 21:30:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.27 Mbit/s
95th percentile per-packet one-way delay: 91.037 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 32.27 Mbit/s
95th percentile per-packet one-way delay: 95.232 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 87.088 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 5.13 Mbit/s
95th percentile per-packet one-way delay: 84.935 ms
Loss rate: 2.49%
```

Run 1: Report of QUIC Cubic — Data Link

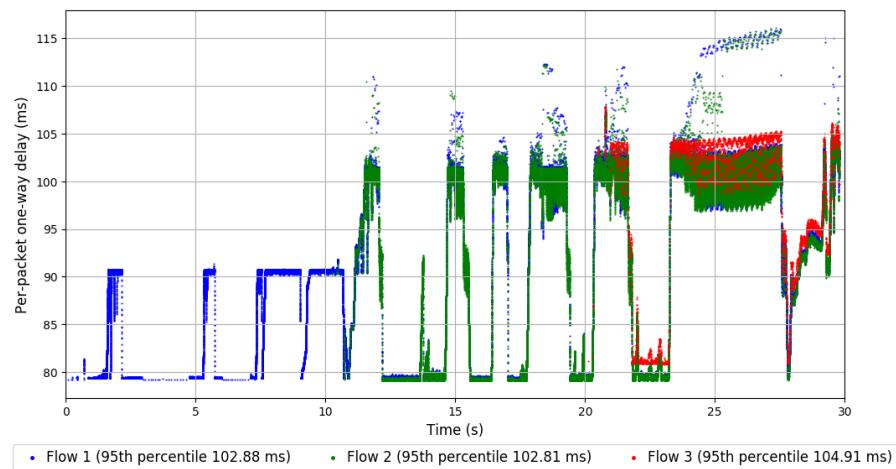
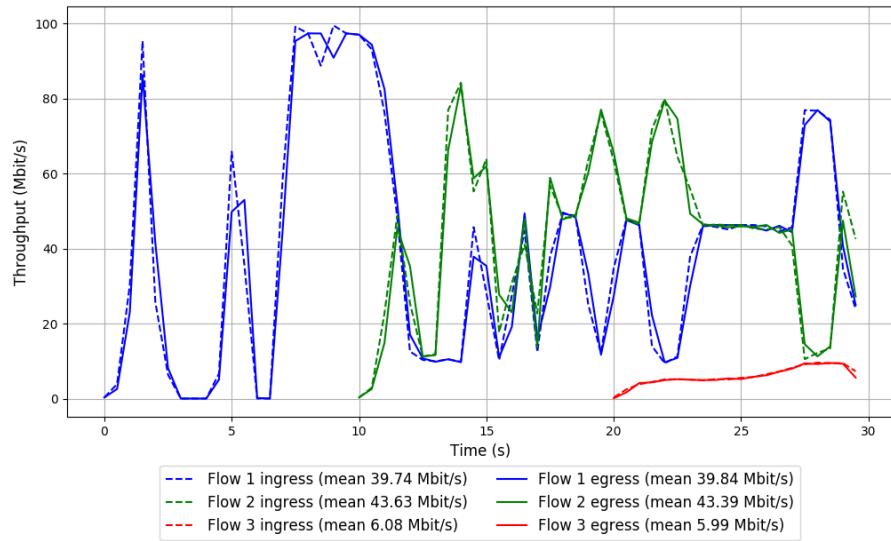


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-02-13 13:55:11
End at: 2018-02-13 13:55:41
Local clock offset: -3.586 ms
Remote clock offset: 1.668 ms

# Below is generated by plot.py at 2018-02-13 21:30:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 102.974 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 102.878 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 43.39 Mbit/s
95th percentile per-packet one-way delay: 102.813 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 104.908 ms
Loss rate: 3.03%
```

Run 2: Report of QUIC Cubic — Data Link

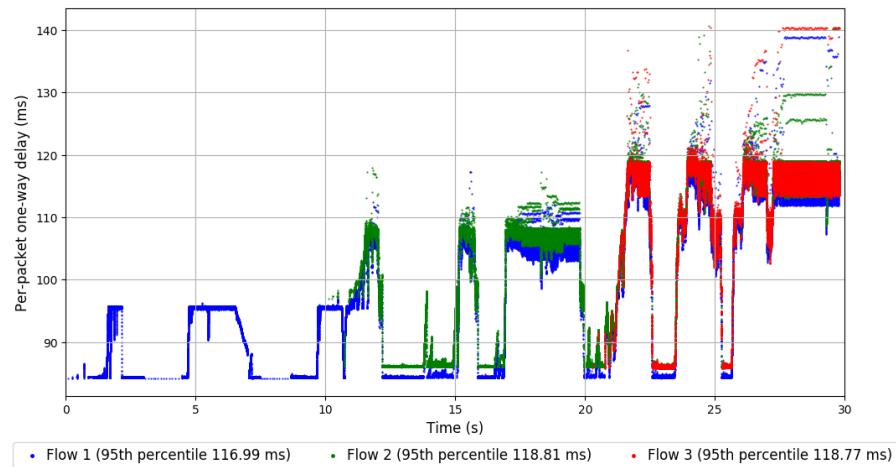
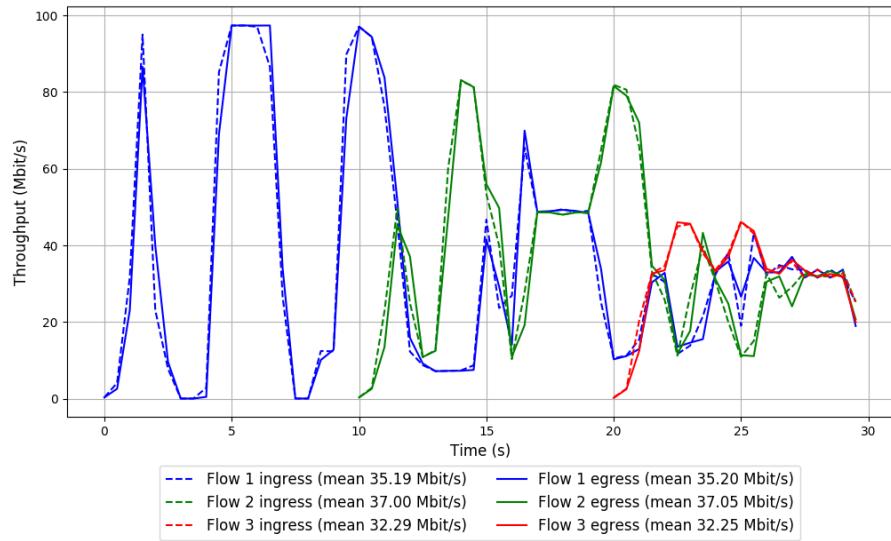


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-02-13 14:18:50
End at: 2018-02-13 14:19:20
Local clock offset: -3.647 ms
Remote clock offset: -4.974 ms

# Below is generated by plot.py at 2018-02-13 21:30:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.22 Mbit/s
95th percentile per-packet one-way delay: 118.530 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 35.20 Mbit/s
95th percentile per-packet one-way delay: 116.990 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 118.813 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 32.25 Mbit/s
95th percentile per-packet one-way delay: 118.774 ms
Loss rate: 2.16%
```

Run 3: Report of QUIC Cubic — Data Link

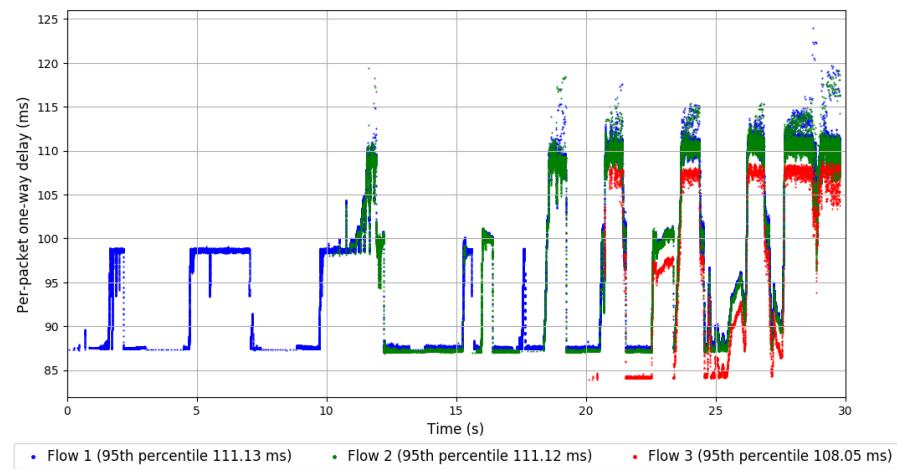
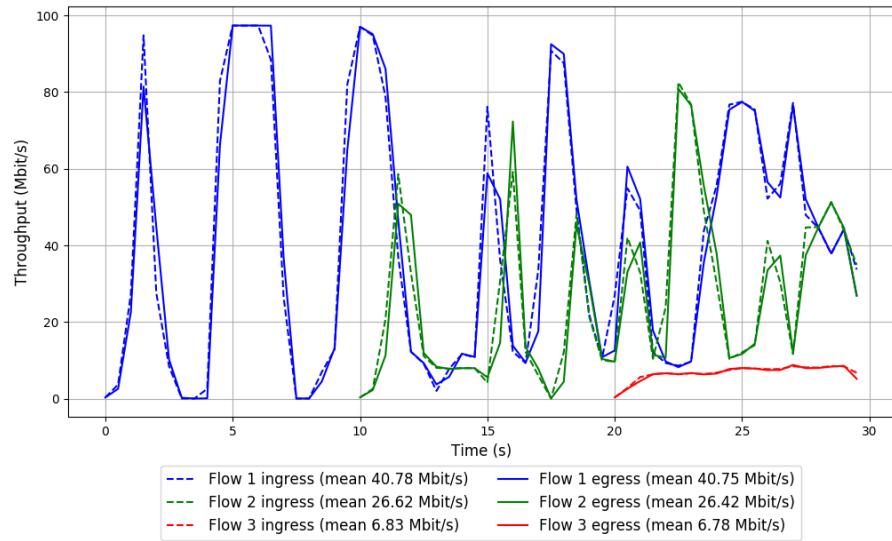


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-02-13 14:42:24
End at: 2018-02-13 14:42:54
Local clock offset: -3.689 ms
Remote clock offset: -4.979 ms

# Below is generated by plot.py at 2018-02-13 21:30:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.46 Mbit/s
95th percentile per-packet one-way delay: 111.105 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 40.75 Mbit/s
95th percentile per-packet one-way delay: 111.127 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 26.42 Mbit/s
95th percentile per-packet one-way delay: 111.120 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 108.047 ms
Loss rate: 2.47%
```

Run 4: Report of QUIC Cubic — Data Link

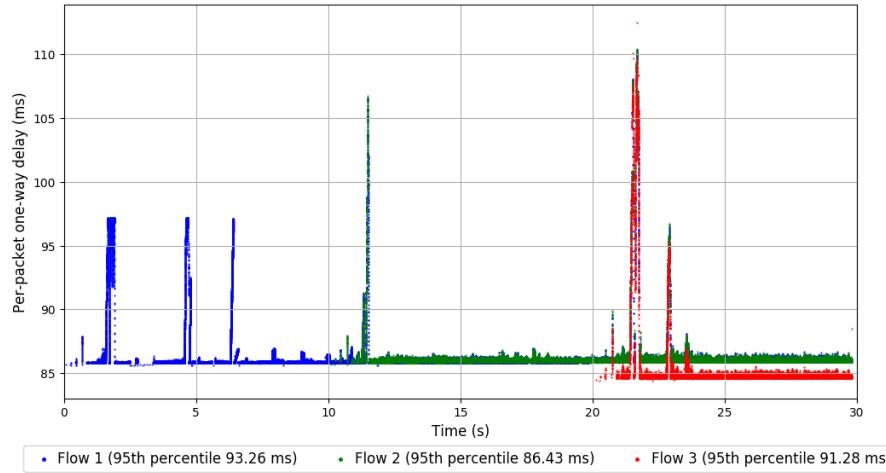
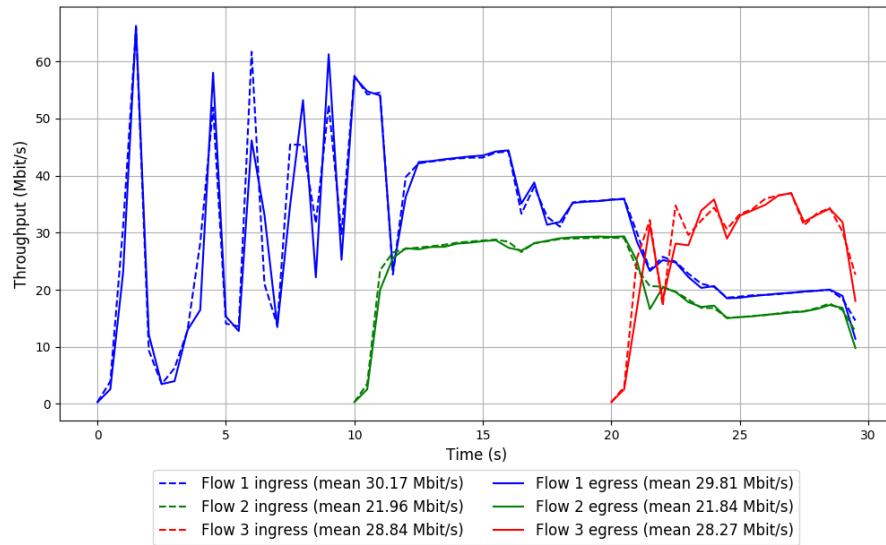


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-02-13 15:05:55
End at: 2018-02-13 15:06:25
Local clock offset: -4.966 ms
Remote clock offset: -4.762 ms

# Below is generated by plot.py at 2018-02-13 21:30:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 90.712 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 93.258 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 86.434 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 28.27 Mbit/s
95th percentile per-packet one-way delay: 91.281 ms
Loss rate: 3.58%
```

Run 5: Report of QUIC Cubic — Data Link

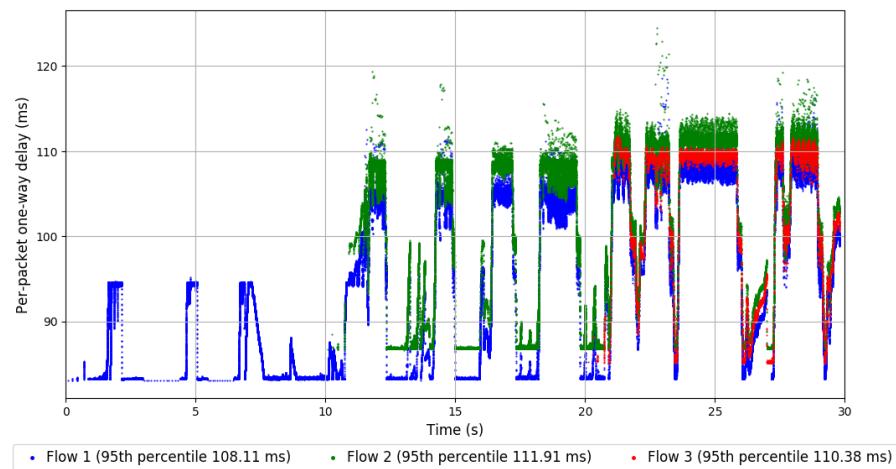
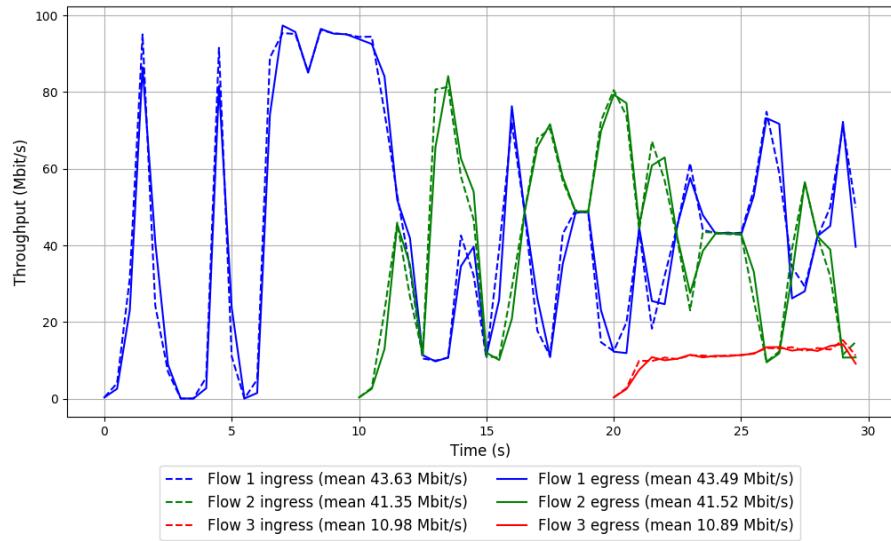


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-02-13 15:29:32
End at: 2018-02-13 15:30:02
Local clock offset: -6.843 ms
Remote clock offset: -3.776 ms

# Below is generated by plot.py at 2018-02-13 21:31:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.57 Mbit/s
95th percentile per-packet one-way delay: 111.315 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 43.49 Mbit/s
95th percentile per-packet one-way delay: 108.114 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 111.911 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 110.377 ms
Loss rate: 2.48%
```

Run 6: Report of QUIC Cubic — Data Link

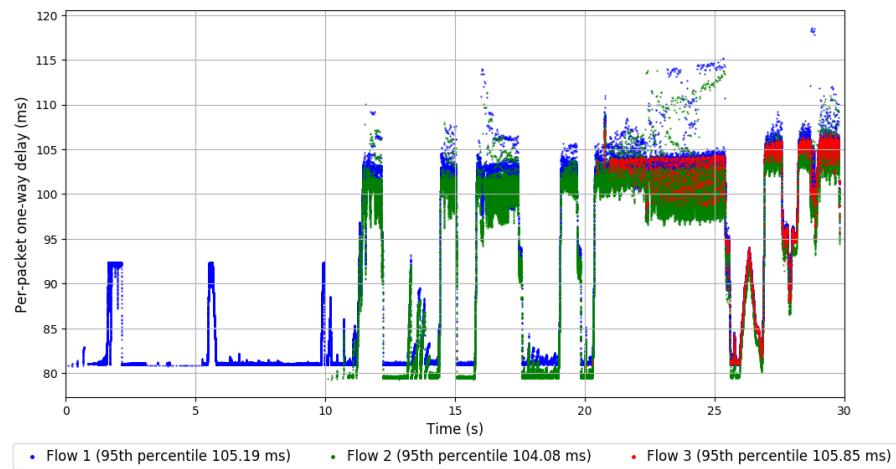
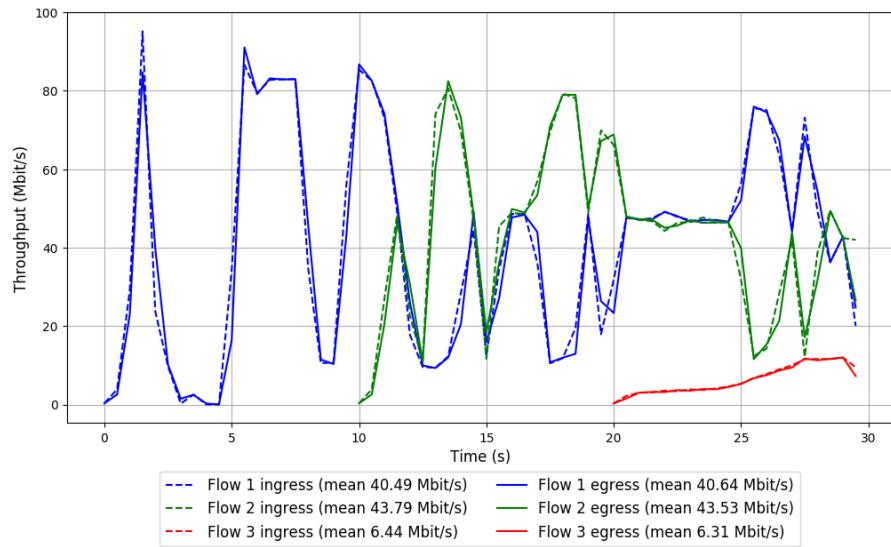


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-02-13 15:53:06
End at: 2018-02-13 15:53:36
Local clock offset: -3.976 ms
Remote clock offset: 0.328 ms

# Below is generated by plot.py at 2018-02-13 21:31:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.57 Mbit/s
95th percentile per-packet one-way delay: 104.779 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 105.192 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 104.084 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 105.853 ms
Loss rate: 3.65%
```

Run 7: Report of QUIC Cubic — Data Link

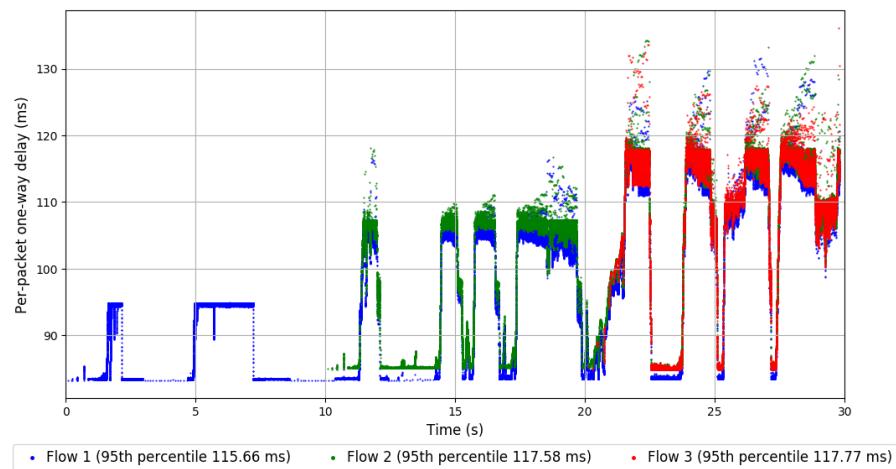
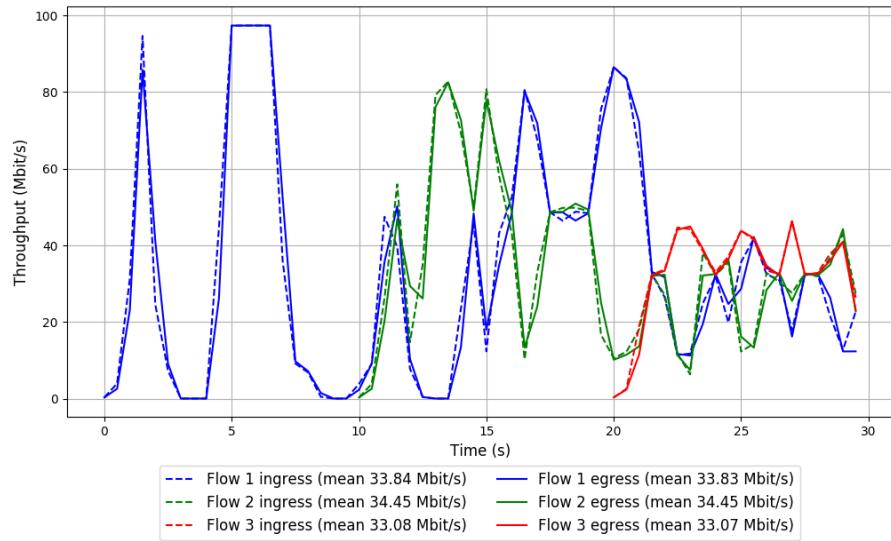


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-02-13 16:16:49
End at: 2018-02-13 16:17:19
Local clock offset: -5.388 ms
Remote clock offset: -3.561 ms

# Below is generated by plot.py at 2018-02-13 21:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.43 Mbit/s
95th percentile per-packet one-way delay: 117.248 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 33.83 Mbit/s
95th percentile per-packet one-way delay: 115.657 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 117.578 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 33.07 Mbit/s
95th percentile per-packet one-way delay: 117.765 ms
Loss rate: 1.95%
```

Run 8: Report of QUIC Cubic — Data Link

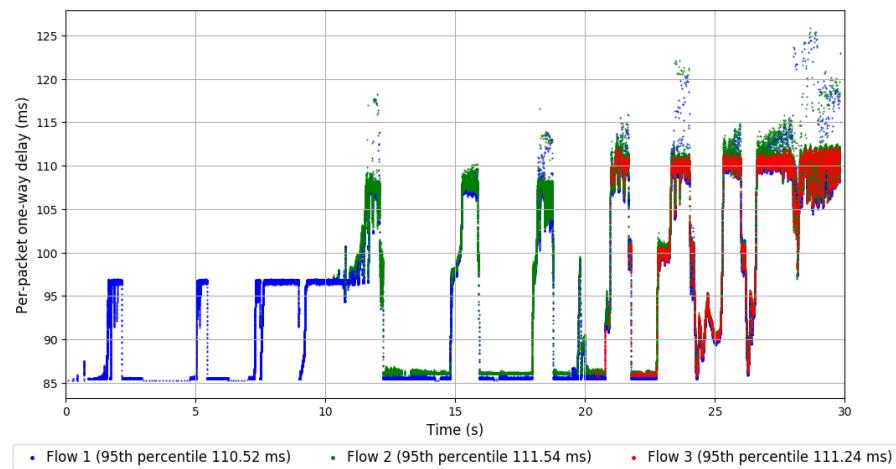
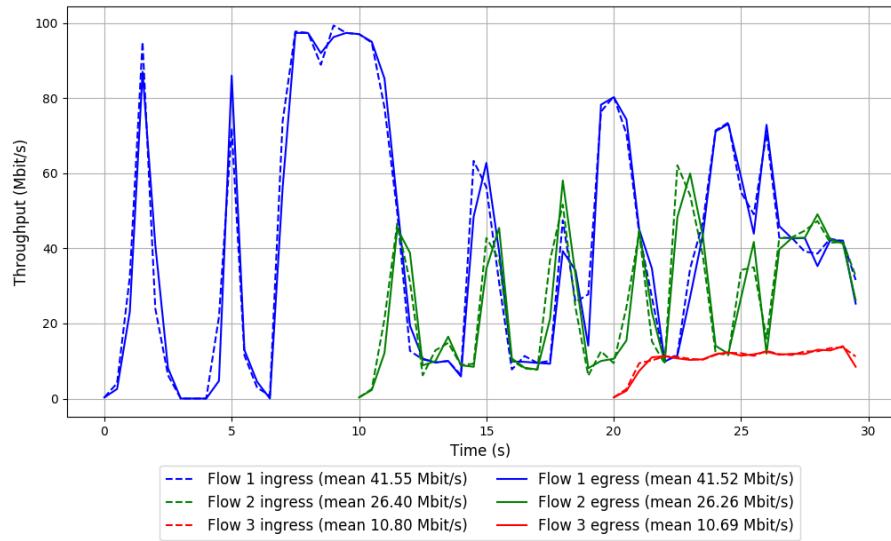


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-02-13 16:40:31
End at: 2018-02-13 16:41:01
Local clock offset: -6.921 ms
Remote clock offset: -4.482 ms

# Below is generated by plot.py at 2018-02-13 21:31:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.40 Mbit/s
95th percentile per-packet one-way delay: 111.039 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 110.521 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 26.26 Mbit/s
95th percentile per-packet one-way delay: 111.537 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 10.69 Mbit/s
95th percentile per-packet one-way delay: 111.242 ms
Loss rate: 2.64%
```

Run 9: Report of QUIC Cubic — Data Link

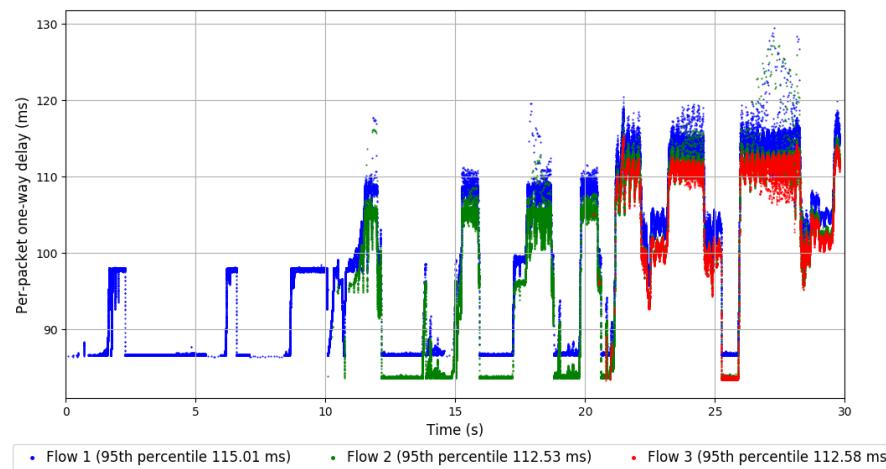
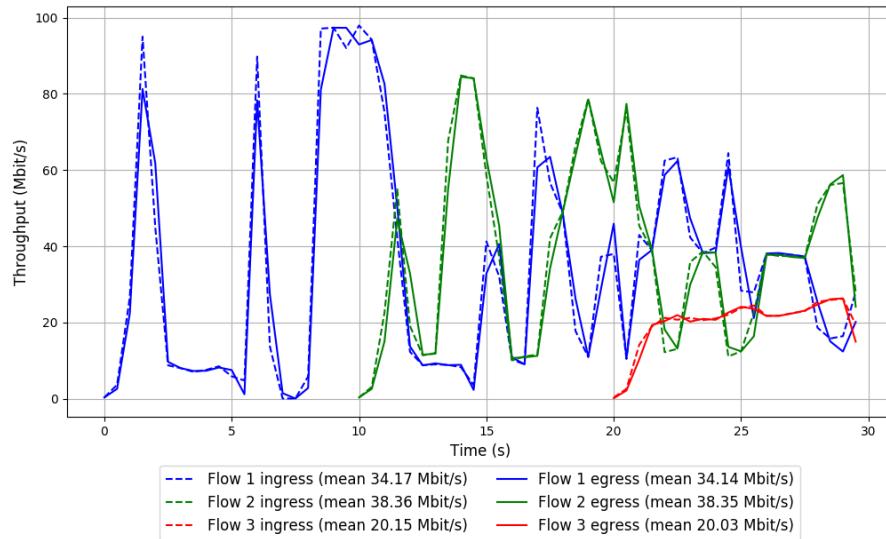


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-02-13 17:04:16
End at: 2018-02-13 17:04:46
Local clock offset: -7.959 ms
Remote clock offset: -3.748 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.08 Mbit/s
95th percentile per-packet one-way delay: 114.201 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 34.14 Mbit/s
95th percentile per-packet one-way delay: 115.012 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 112.527 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 112.578 ms
Loss rate: 2.47%
```

Run 10: Report of QUIC Cubic — Data Link

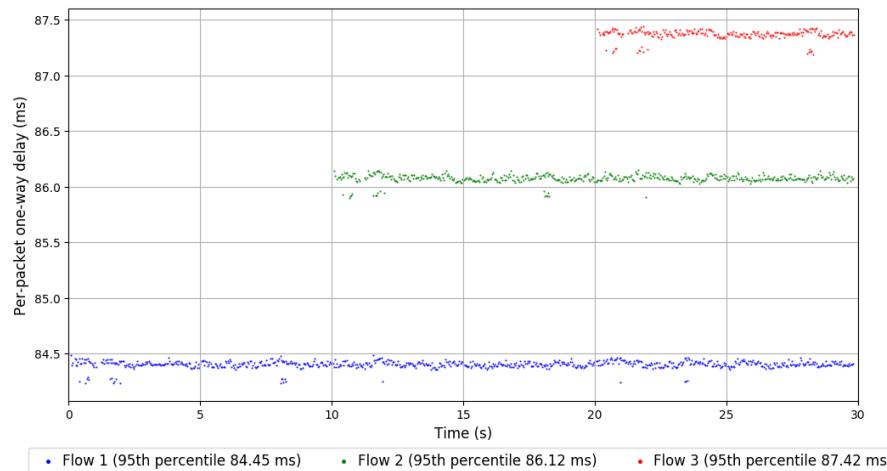
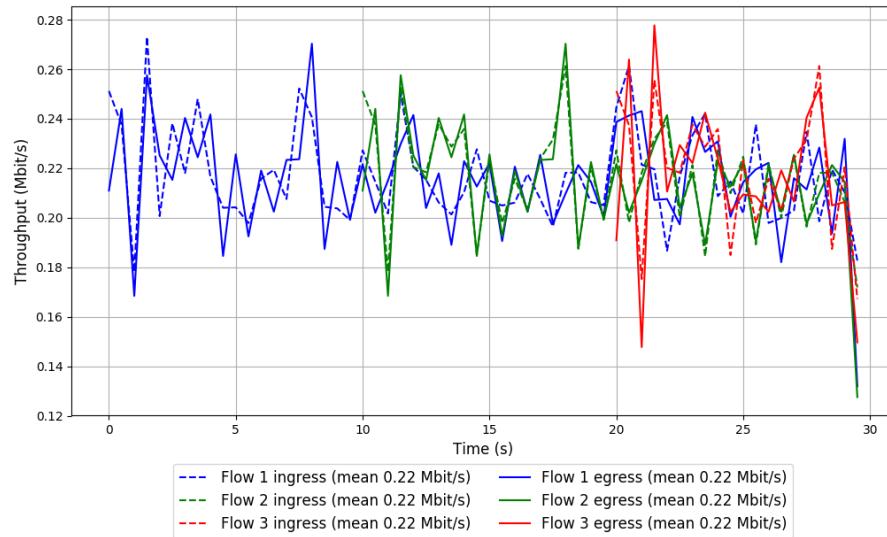


Run 1: Statistics of SCReAM

```
Start at: 2018-02-13 13:51:22
End at: 2018-02-13 13:51:52
Local clock offset: -3.401 ms
Remote clock offset: -4.736 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.390 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.449 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.124 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.420 ms
Loss rate: 1.50%
```

Run 1: Report of SCReAM — Data Link

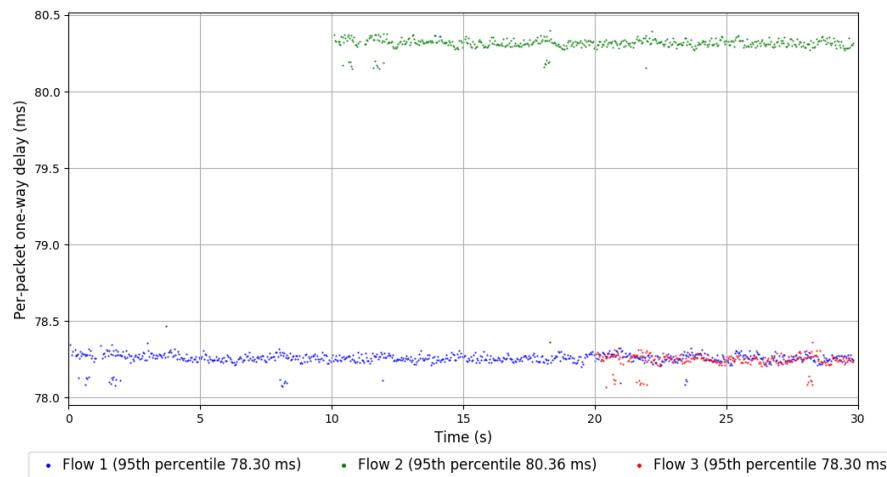
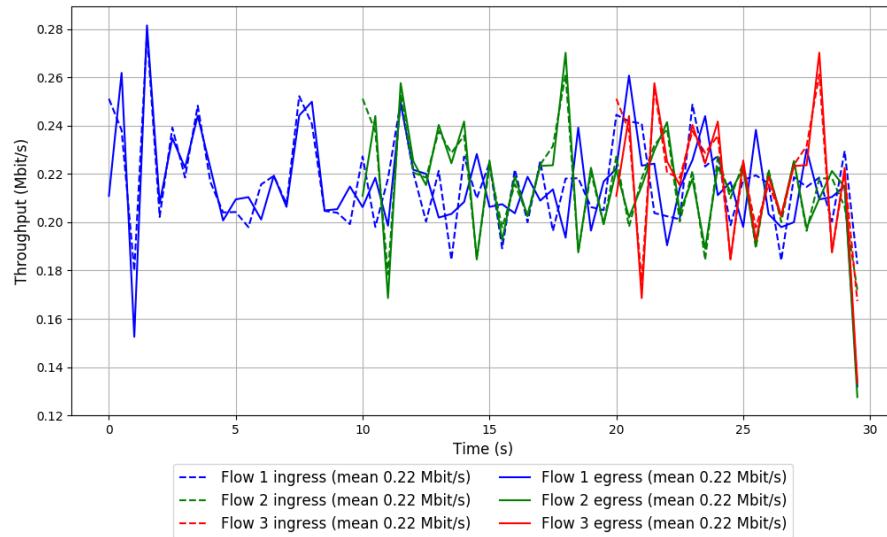


Run 2: Statistics of SCReAM

```
Start at: 2018-02-13 14:15:01
End at: 2018-02-13 14:15:31
Local clock offset: -3.614 ms
Remote clock offset: 0.819 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.341 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.303 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.359 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.296 ms
Loss rate: 1.50%
```

Run 2: Report of SCReAM — Data Link

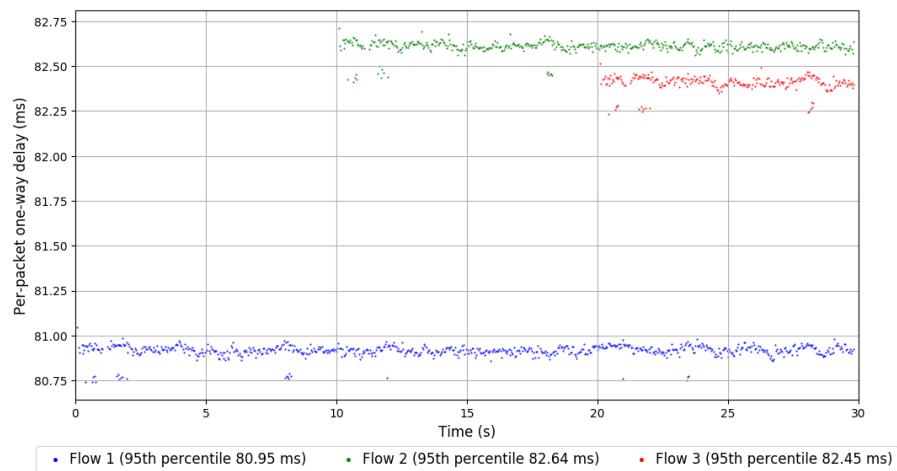
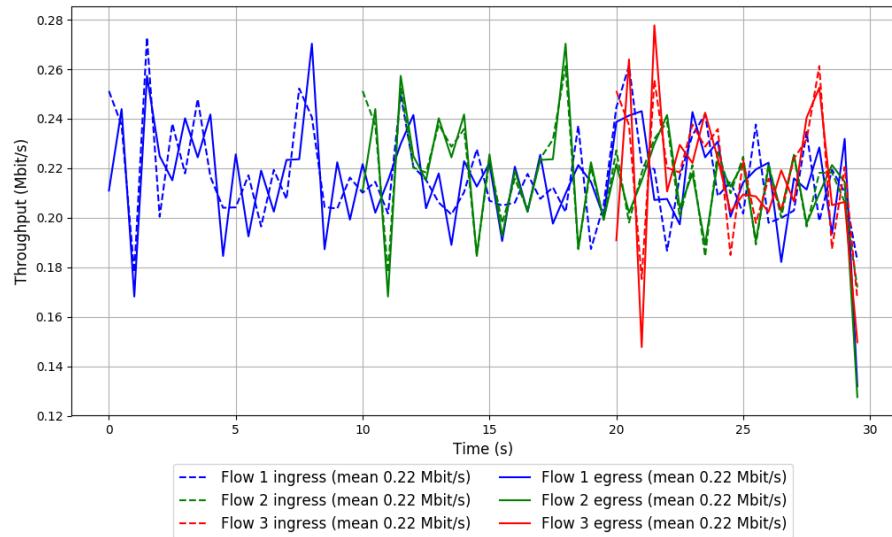


Run 3: Statistics of SCReAM

```
Start at: 2018-02-13 14:38:35
End at: 2018-02-13 14:39:05
Local clock offset: -3.679 ms
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 82.633 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.953 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.644 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.450 ms
Loss rate: 1.50%
```

Run 3: Report of SCReAM — Data Link

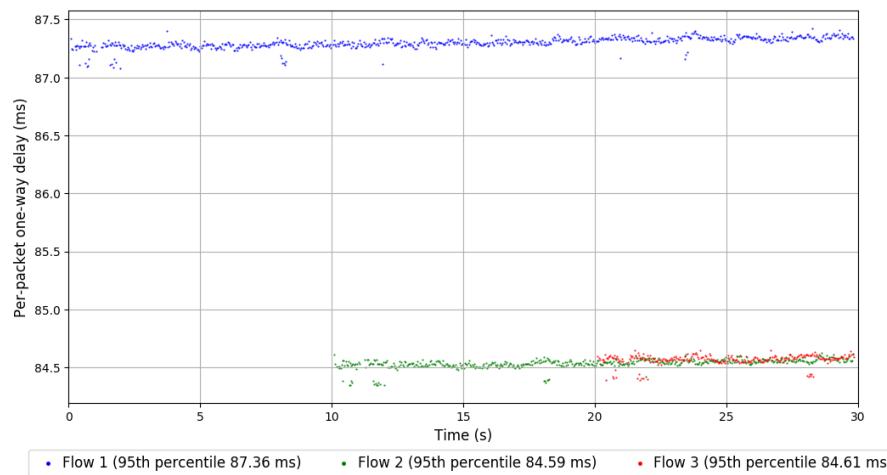
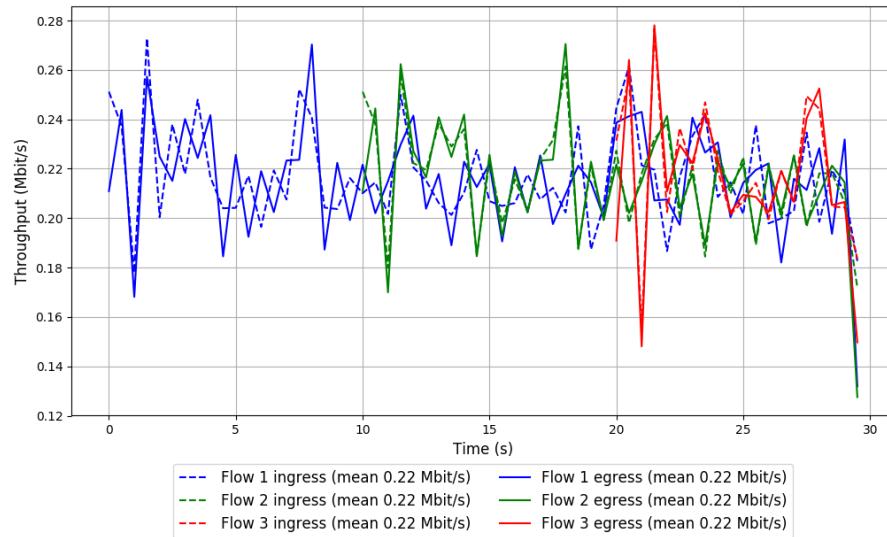


Run 4: Statistics of SCReAM

```
Start at: 2018-02-13 15:02:06
End at: 2018-02-13 15:02:36
Local clock offset: -4.26 ms
Remote clock offset: -4.725 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.351 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.361 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.587 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.615 ms
Loss rate: 1.50%
```

Run 4: Report of SCReAM — Data Link

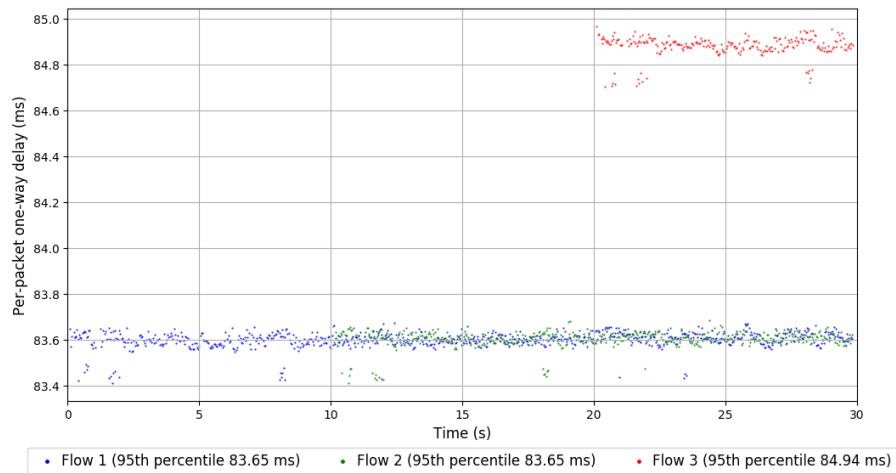
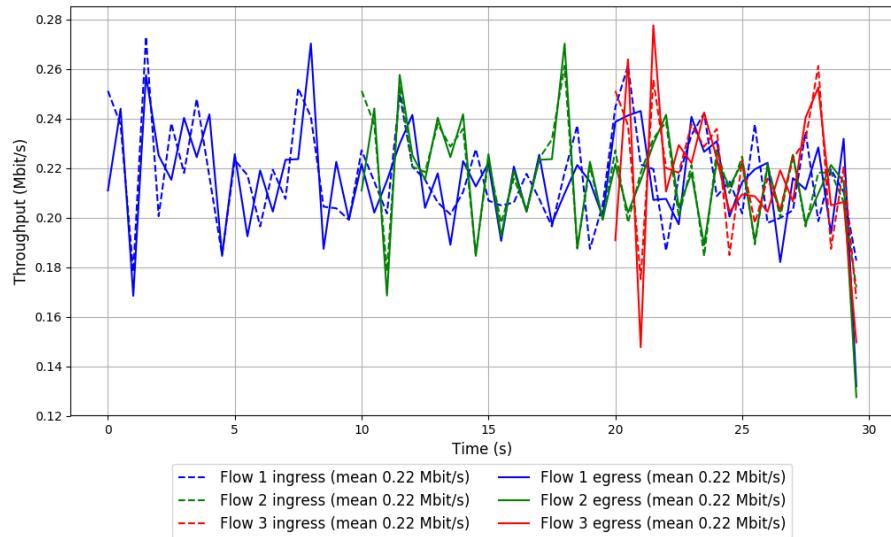


Run 5: Statistics of SCReAM

```
Start at: 2018-02-13 15:25:42
End at: 2018-02-13 15:26:12
Local clock offset: -6.63 ms
Remote clock offset: -3.776 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.902 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.648 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.646 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.935 ms
Loss rate: 1.50%
```

Run 5: Report of SCReAM — Data Link

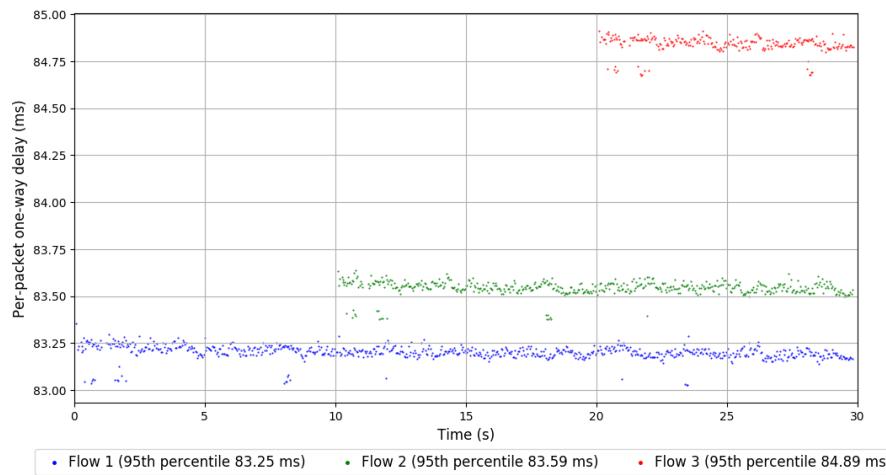
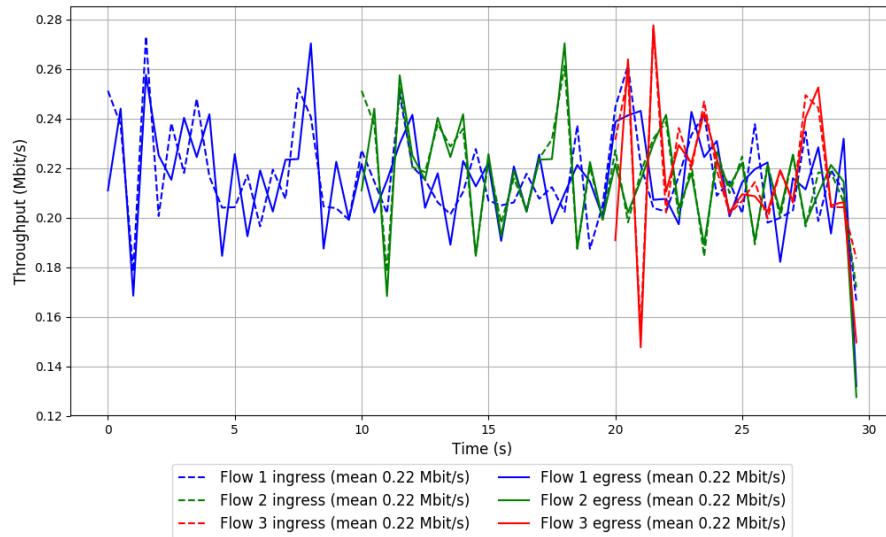


Run 6: Statistics of SCReAM

```
Start at: 2018-02-13 15:49:17
End at: 2018-02-13 15:49:47
Local clock offset: -4.13 ms
Remote clock offset: -3.705 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 84.862 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.253 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.592 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.891 ms
Loss rate: 1.50%
```

Run 6: Report of SCReAM — Data Link

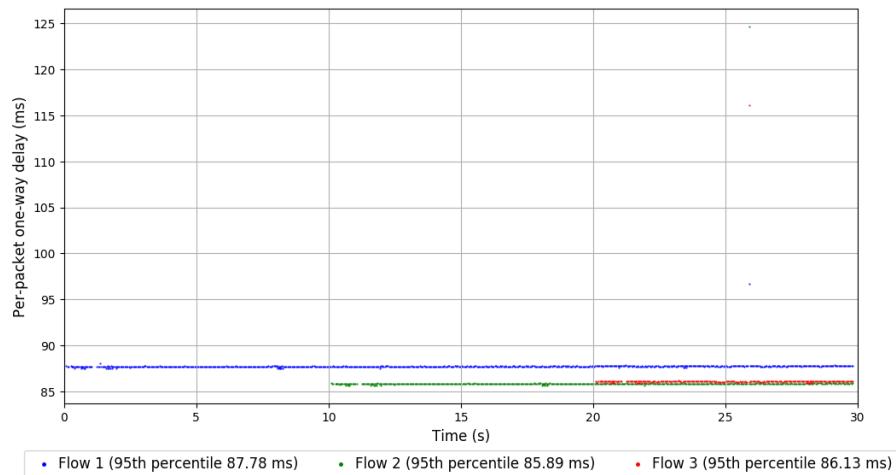
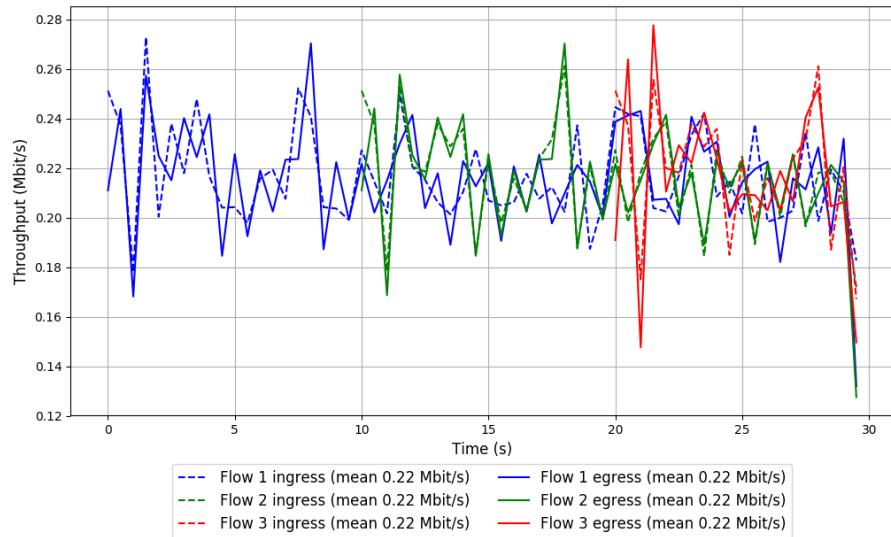


Run 7: Statistics of SCReAM

```
Start at: 2018-02-13 16:12:51
End at: 2018-02-13 16:13:21
Local clock offset: -4.783 ms
Remote clock offset: -4.488 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.765 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.779 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.885 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.127 ms
Loss rate: 1.50%
```

Run 7: Report of SCReAM — Data Link

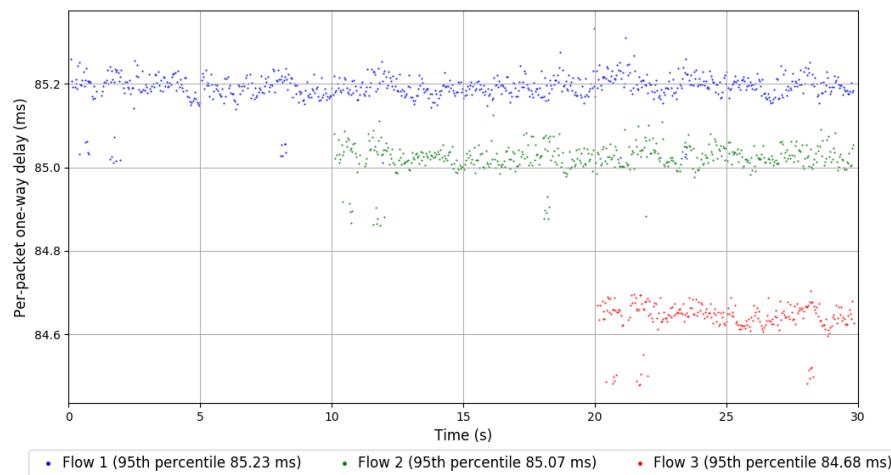
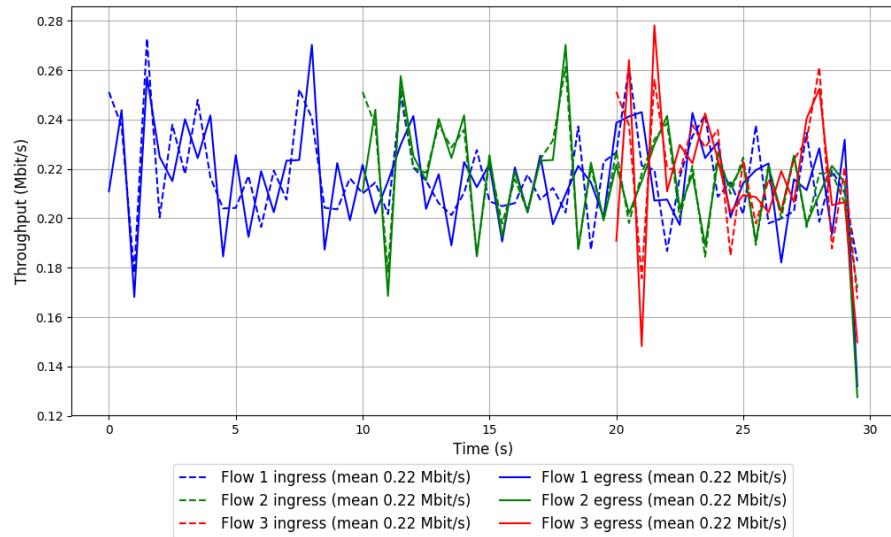


Run 8: Statistics of SCReAM

```
Start at: 2018-02-13 16:36:43
End at: 2018-02-13 16:37:13
Local clock offset: -6.769 ms
Remote clock offset: -3.602 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 85.226 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.234 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.073 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.684 ms
Loss rate: 1.50%
```

Run 8: Report of SCReAM — Data Link

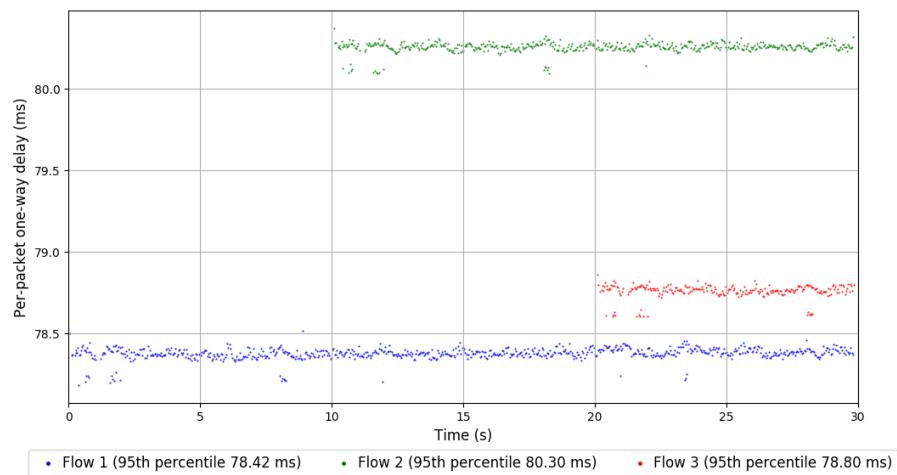
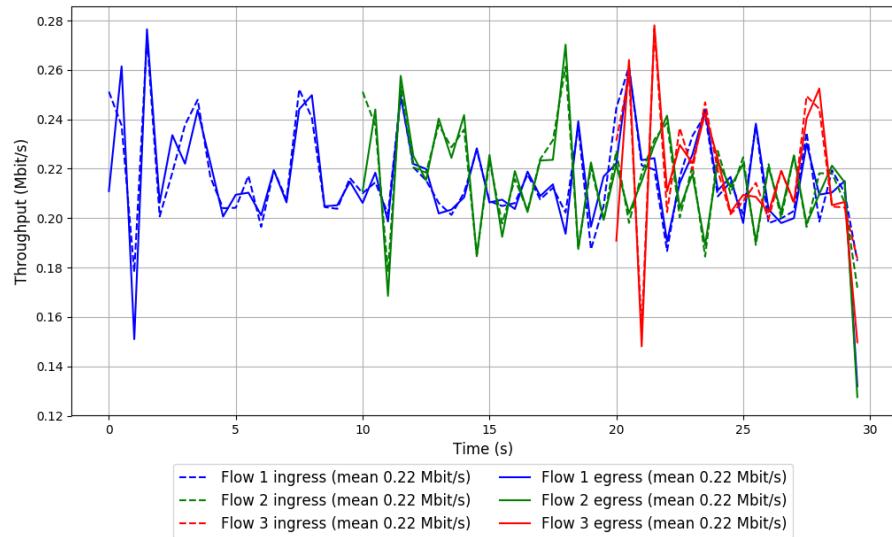


Run 9: Statistics of SCReAM

```
Start at: 2018-02-13 17:00:26
End at: 2018-02-13 17:00:56
Local clock offset: -7.931 ms
Remote clock offset: 1.065 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 80.281 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.424 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.295 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.800 ms
Loss rate: 1.50%
```

Run 9: Report of SCReAM — Data Link

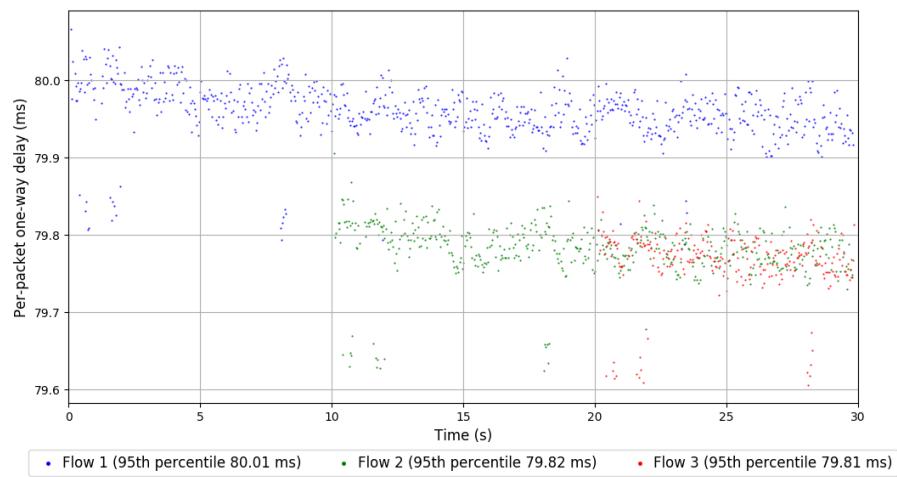
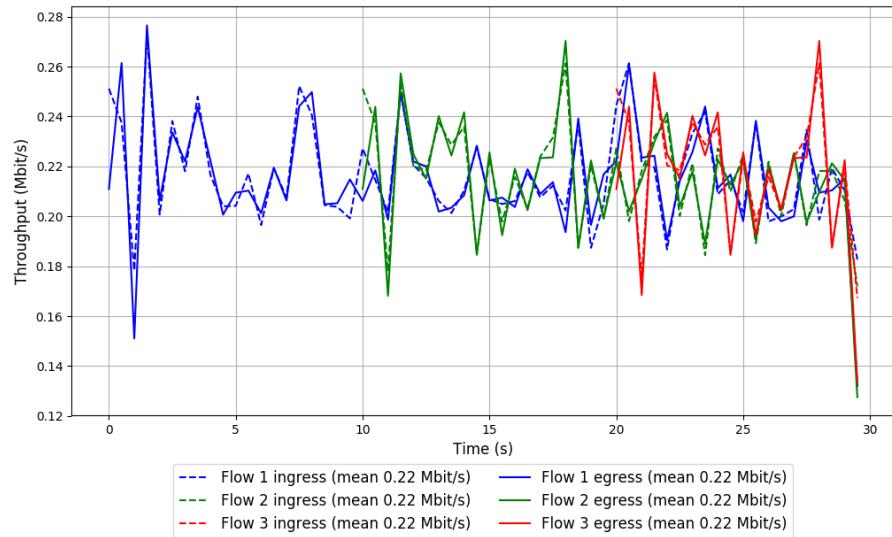


Run 10: Statistics of SCReAM

```
Start at: 2018-02-13 17:24:13
End at: 2018-02-13 17:24:43
Local clock offset: -7.323 ms
Remote clock offset: 0.878 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.998 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.010 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.824 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.806 ms
Loss rate: 1.50%
```

Run 10: Report of SCReAM — Data Link

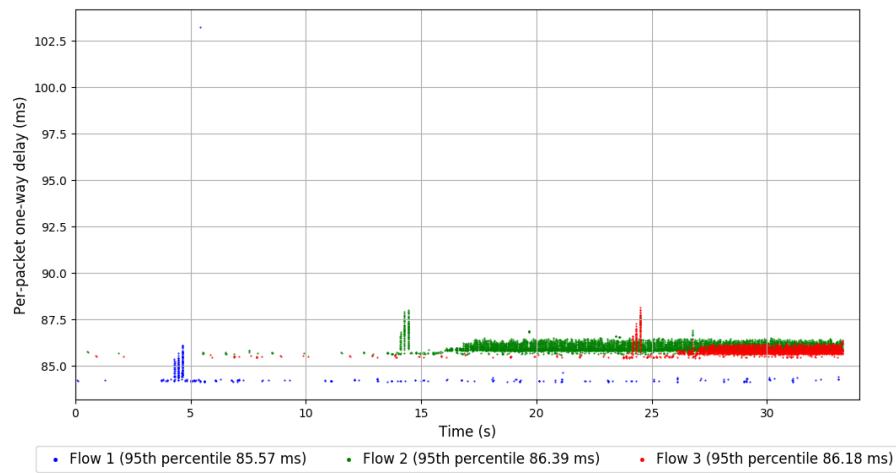
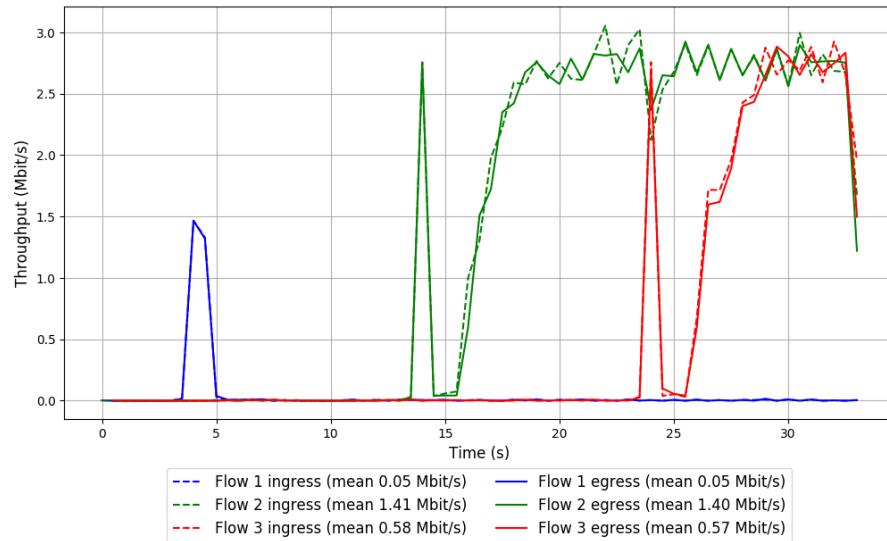


Run 1: Statistics of WebRTC media

```
Start at: 2018-02-13 13:48:51
End at: 2018-02-13 13:49:21
Local clock offset: -3.405 ms
Remote clock offset: -4.658 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 86.378 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.572 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 86.394 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 86.180 ms
Loss rate: 2.31%
```

Run 1: Report of WebRTC media — Data Link

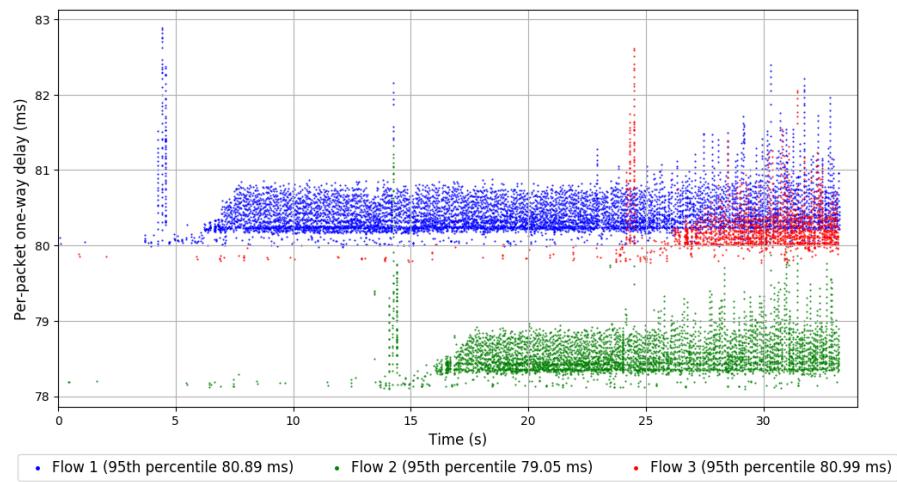
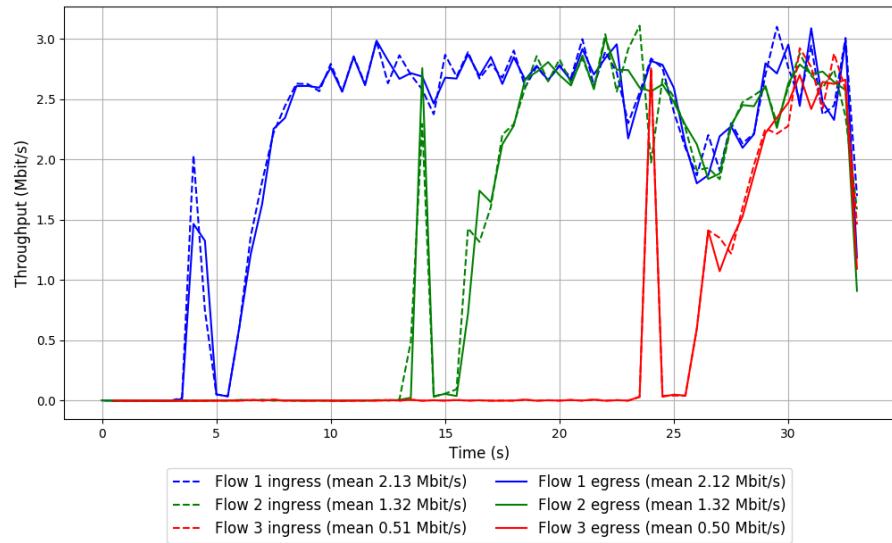


Run 2: Statistics of WebRTC media

```
Start at: 2018-02-13 14:12:29
End at: 2018-02-13 14:12:59
Local clock offset: -3.641 ms
Remote clock offset: 0.735 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 80.788 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 80.889 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 79.050 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 80.992 ms
Loss rate: 2.81%
```

Run 2: Report of WebRTC media — Data Link

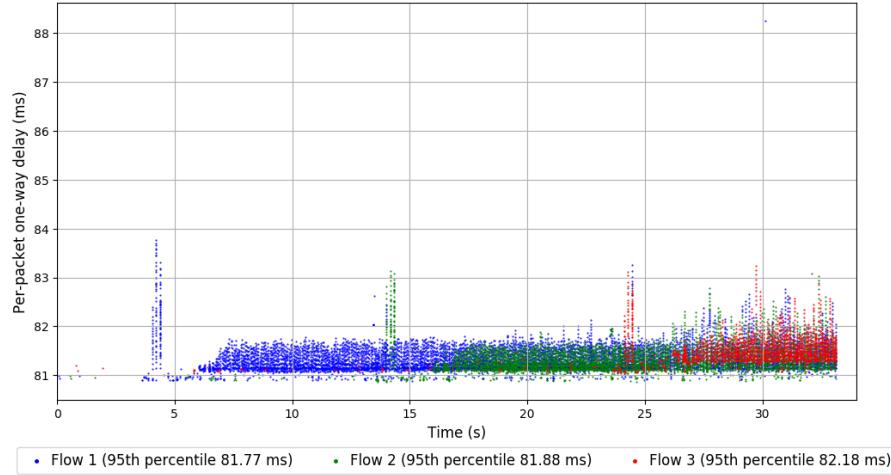
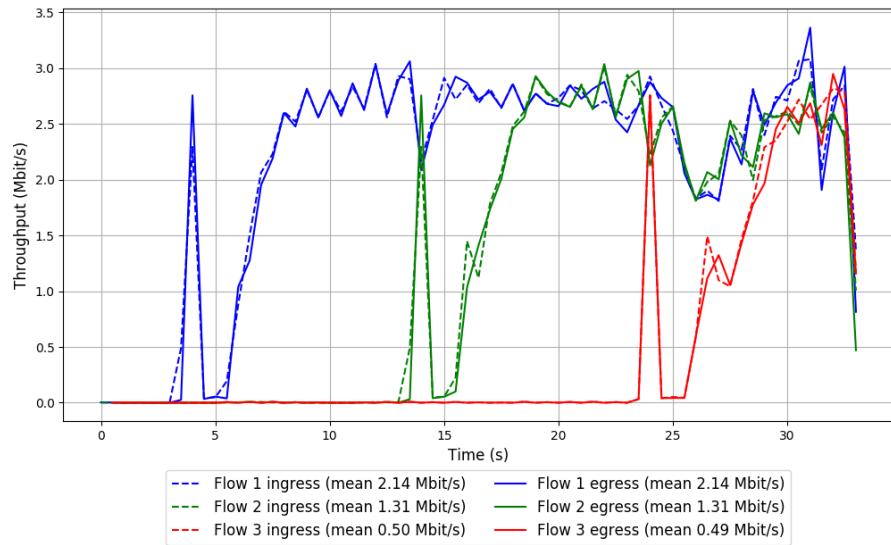


Run 3: Statistics of WebRTC media

```
Start at: 2018-02-13 14:36:03
End at: 2018-02-13 14:36:33
Local clock offset: -3.667 ms
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 81.886 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 81.766 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 81.878 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 82.184 ms
Loss rate: 2.42%
```

Run 3: Report of WebRTC media — Data Link

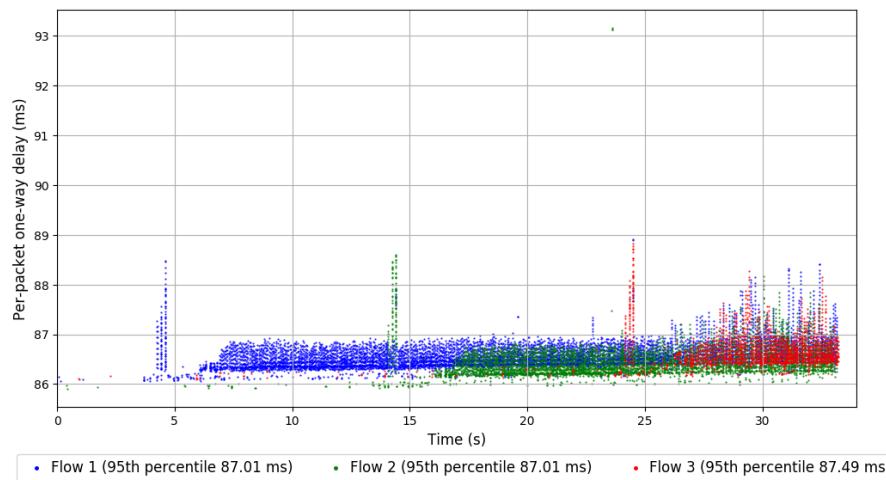
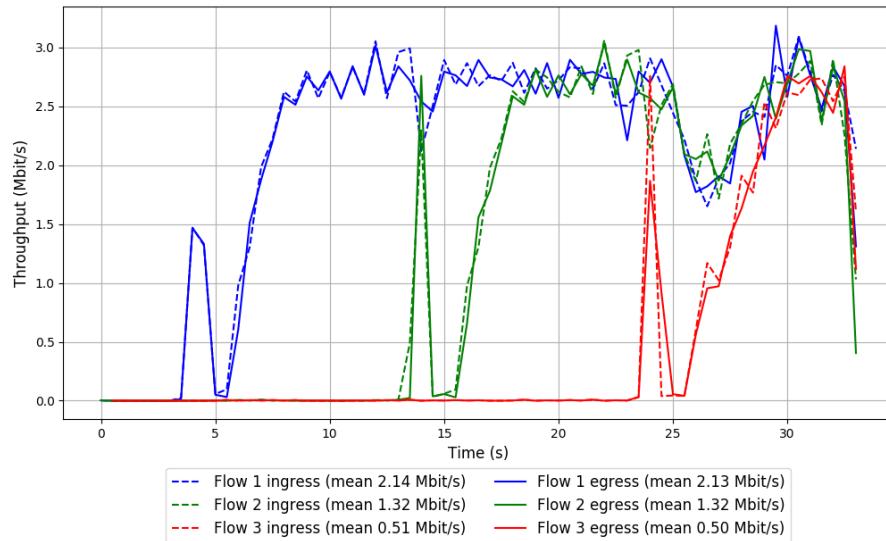


Run 4: Statistics of WebRTC media

```
Start at: 2018-02-13 14:59:35
End at: 2018-02-13 15:00:05
Local clock offset: -3.634 ms
Remote clock offset: -4.881 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 87.108 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 87.014 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 87.010 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 87.490 ms
Loss rate: 2.79%
```

Run 4: Report of WebRTC media — Data Link

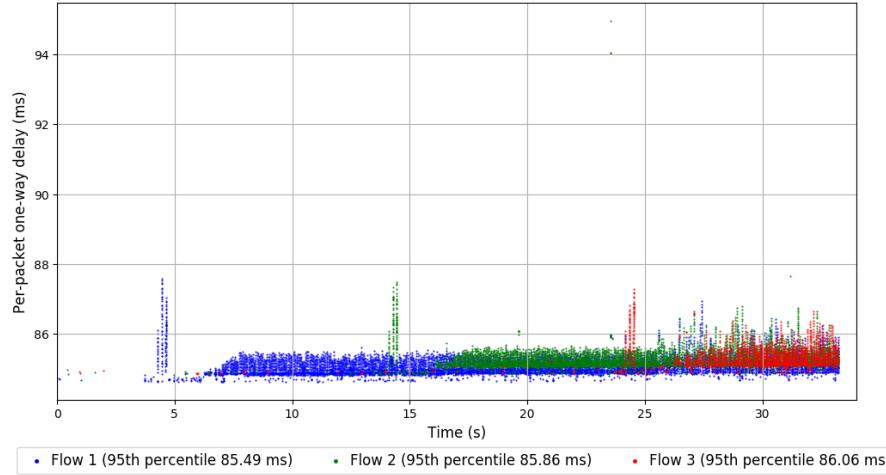
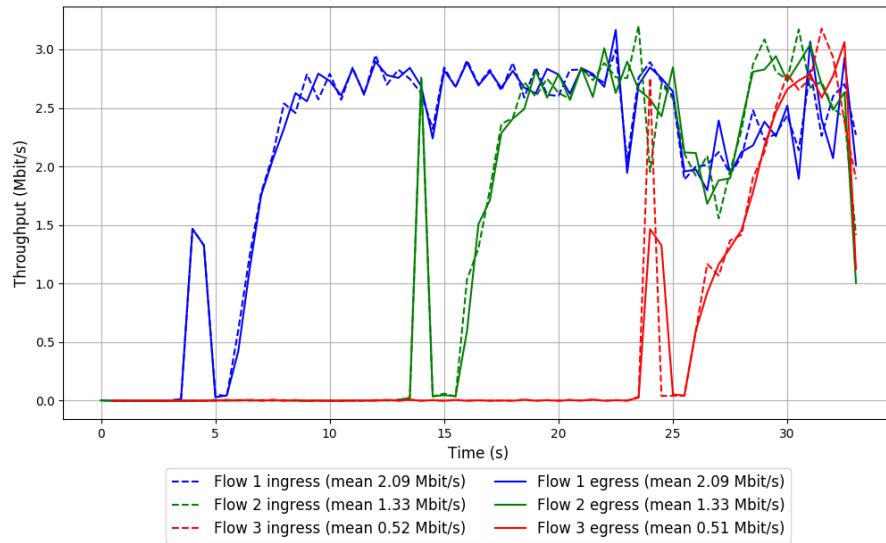


Run 5: Statistics of WebRTC media

```
Start at: 2018-02-13 15:23:11
End at: 2018-02-13 15:23:41
Local clock offset: -6.514 ms
Remote clock offset: -3.8 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 85.770 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 85.487 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 85.859 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 86.059 ms
Loss rate: 3.36%
```

Run 5: Report of WebRTC media — Data Link

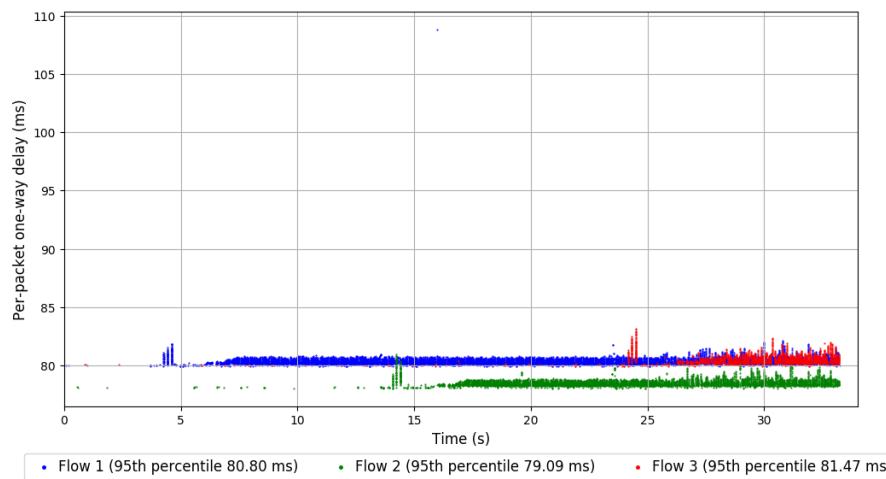
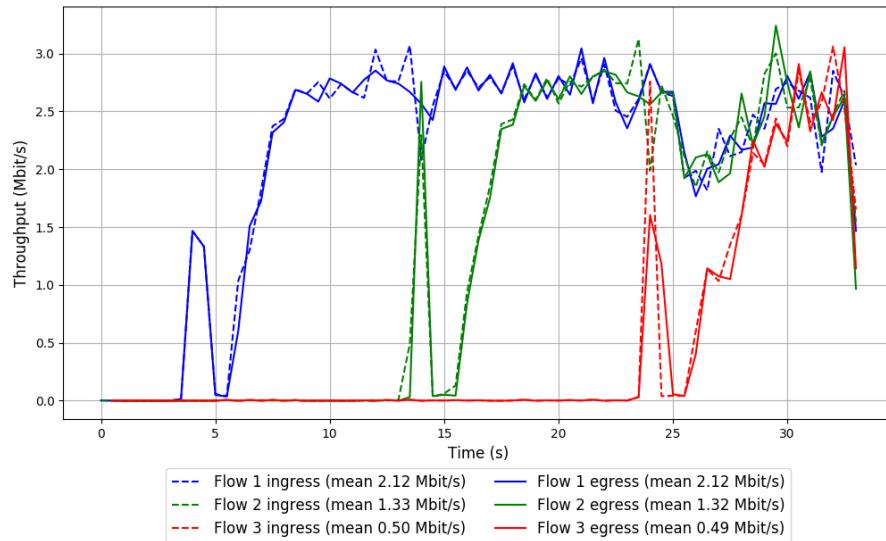


Run 6: Statistics of WebRTC media

```
Start at: 2018-02-13 15:46:45
End at: 2018-02-13 15:47:15
Local clock offset: -4.338 ms
Remote clock offset: 1.13 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 80.832 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 80.797 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 79.089 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 81.467 ms
Loss rate: 2.76%
```

Run 6: Report of WebRTC media — Data Link

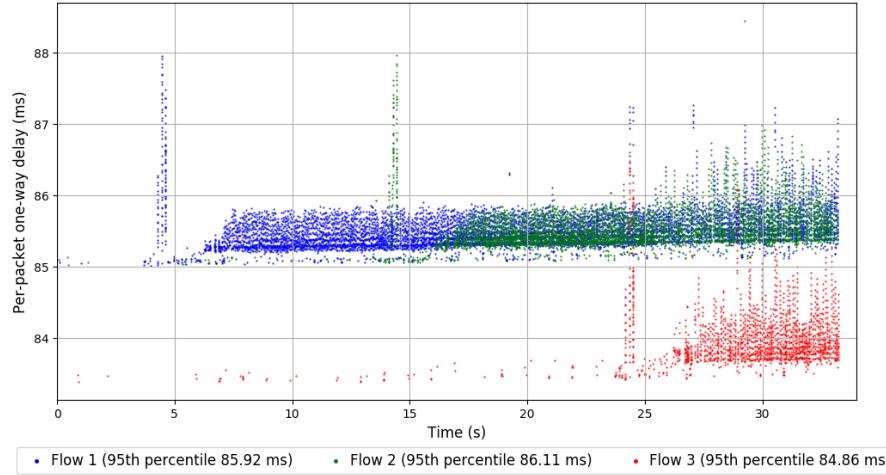
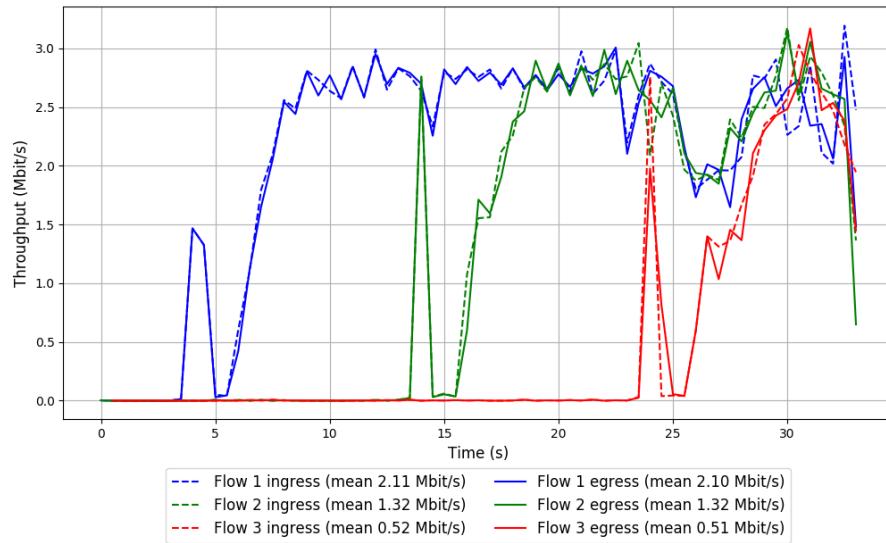


Run 7: Statistics of WebRTC media

```
Start at: 2018-02-13 16:10:19
End at: 2018-02-13 16:10:49
Local clock offset: -4.261 ms
Remote clock offset: -3.717 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 85.969 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 85.916 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 86.110 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 84.862 ms
Loss rate: 2.27%
```

Run 7: Report of WebRTC media — Data Link

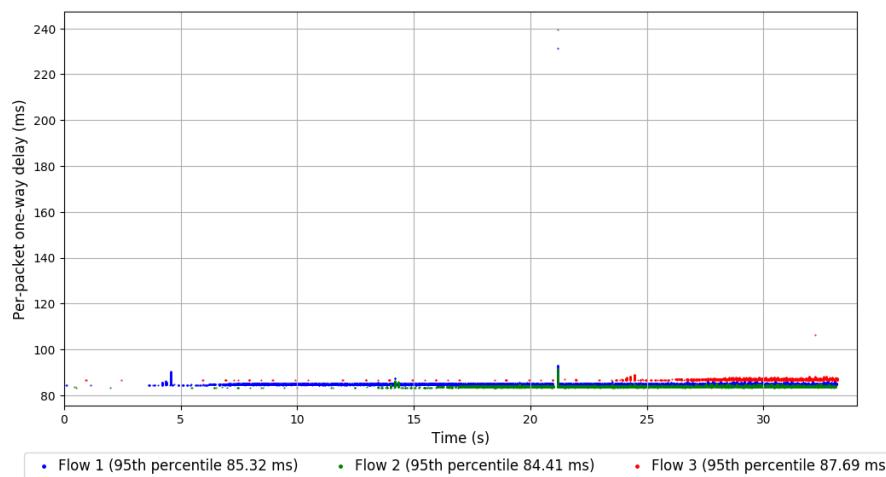
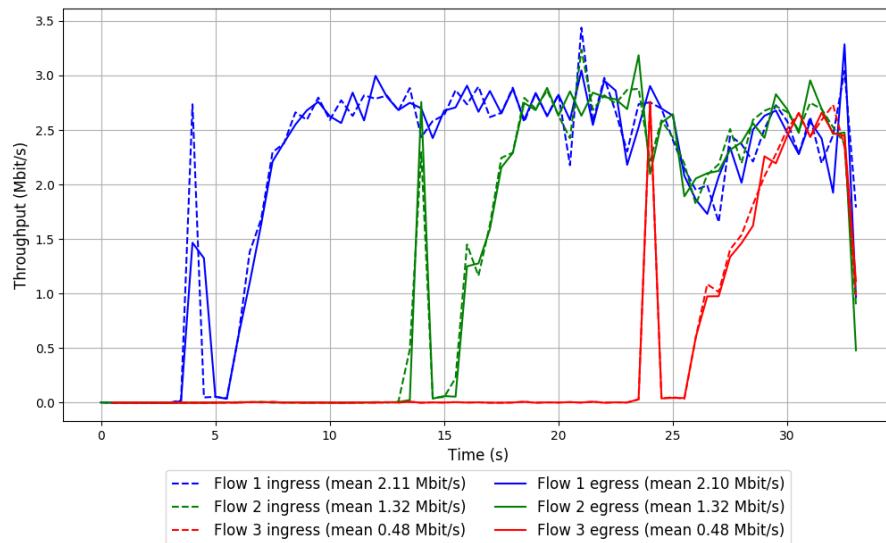


Run 8: Statistics of WebRTC media

```
Start at: 2018-02-13 16:34:11
End at: 2018-02-13 16:34:41
Local clock offset: -6.621 ms
Remote clock offset: -3.524 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 87.059 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 85.322 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 84.407 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 87.685 ms
Loss rate: 1.32%
```

Run 8: Report of WebRTC media — Data Link

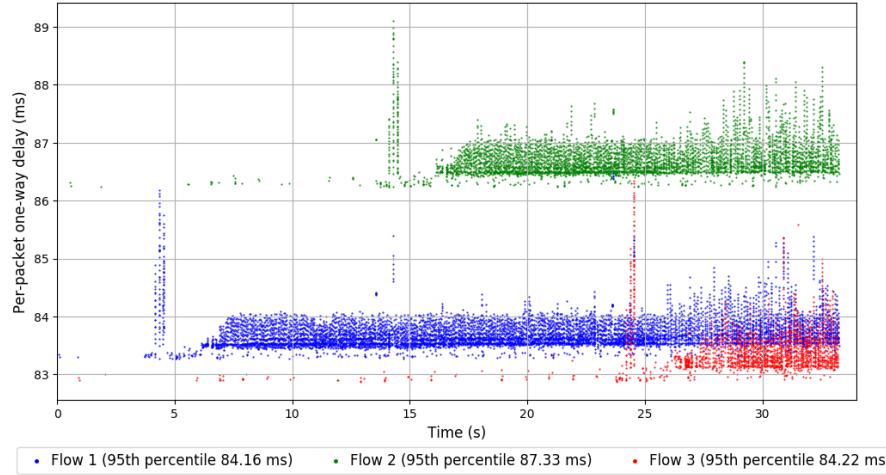
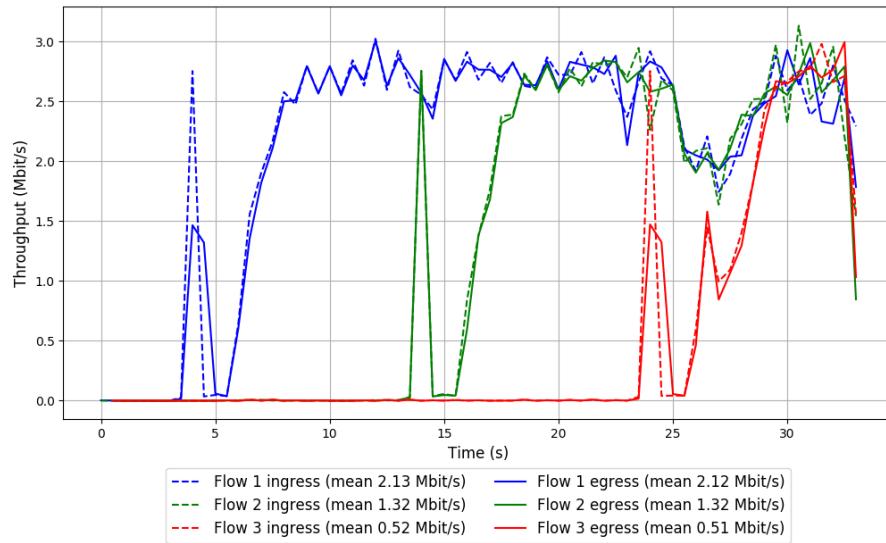


Run 9: Statistics of WebRTC media

```
Start at: 2018-02-13 16:57:53
End at: 2018-02-13 16:58:23
Local clock offset: -7.833 ms
Remote clock offset: -3.68 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 86.986 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 84.161 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 87.325 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 84.216 ms
Loss rate: 2.49%
```

Run 9: Report of WebRTC media — Data Link

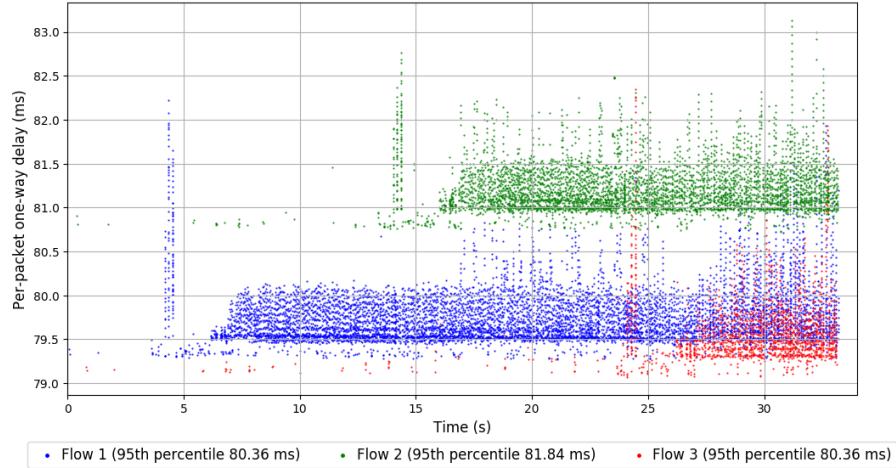
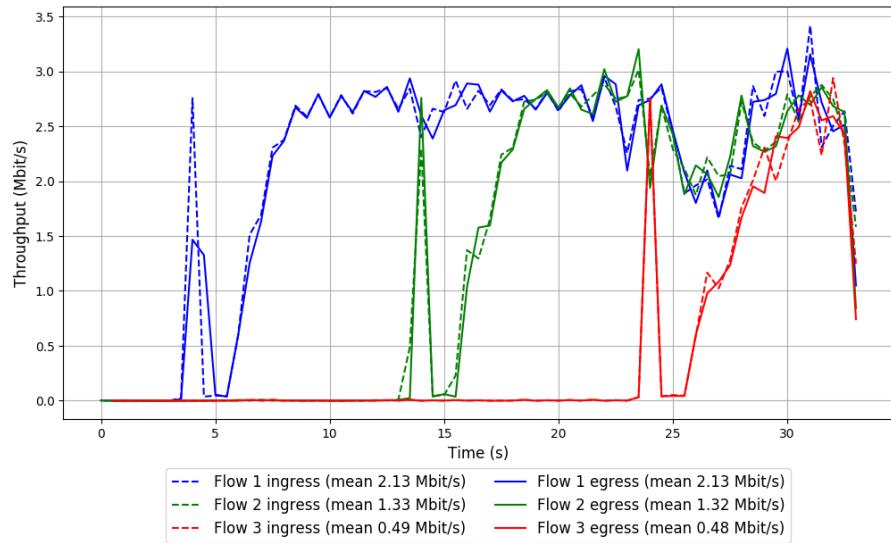


```
Run 10: Statistics of WebRTC media
```

```
Start at: 2018-02-13 17:21:42
End at: 2018-02-13 17:22:12
Local clock offset: -7.499 ms
Remote clock offset: 1.808 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 81.504 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 80.362 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 81.841 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 80.365 ms
Loss rate: 2.60%
```

Run 10: Report of WebRTC media — Data Link

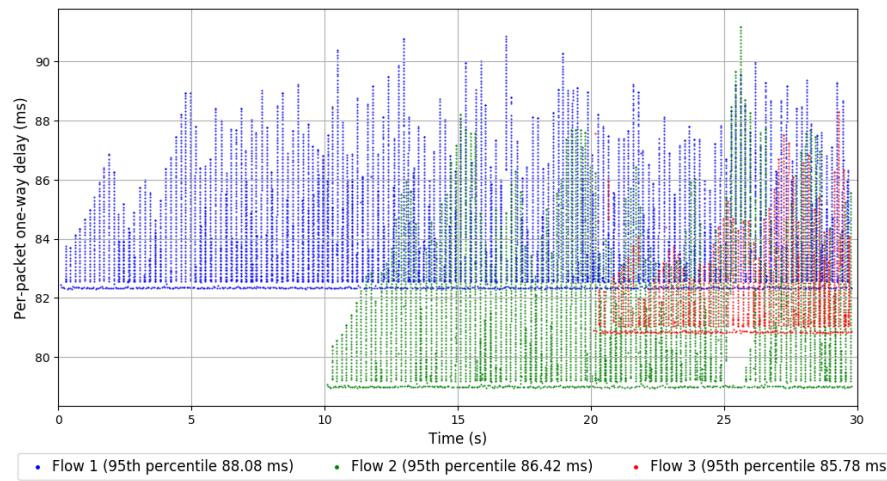
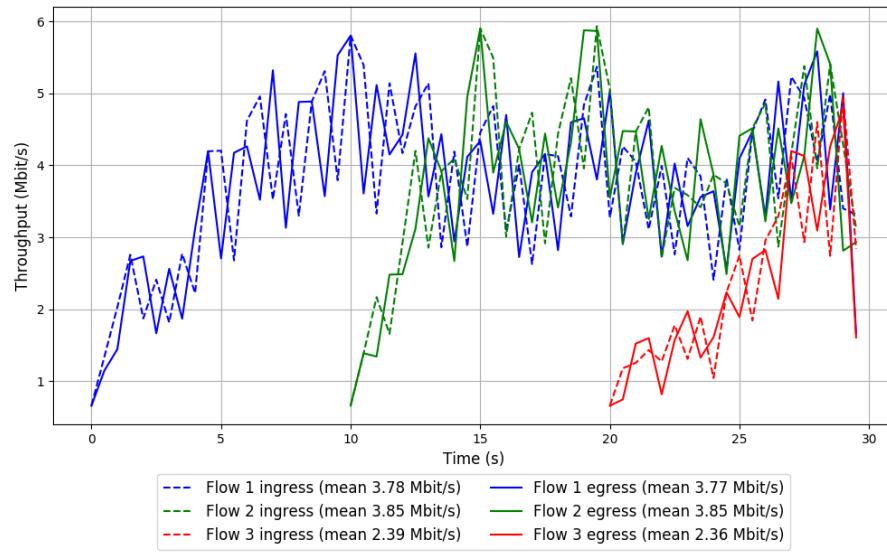


Run 1: Statistics of Sprout

```
Start at: 2018-02-13 13:30:18
End at: 2018-02-13 13:30:48
Local clock offset: -3.552 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 87.550 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 88.082 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 86.424 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 85.777 ms
Loss rate: 2.97%
```

Run 1: Report of Sprout — Data Link

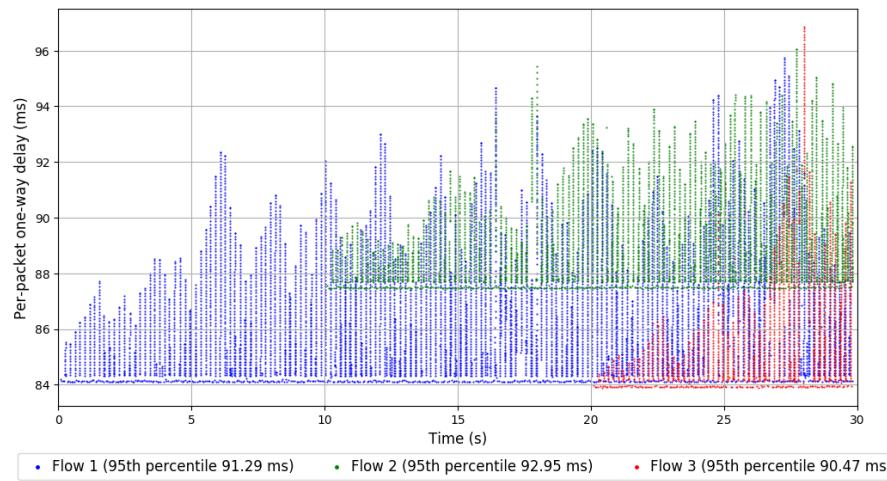
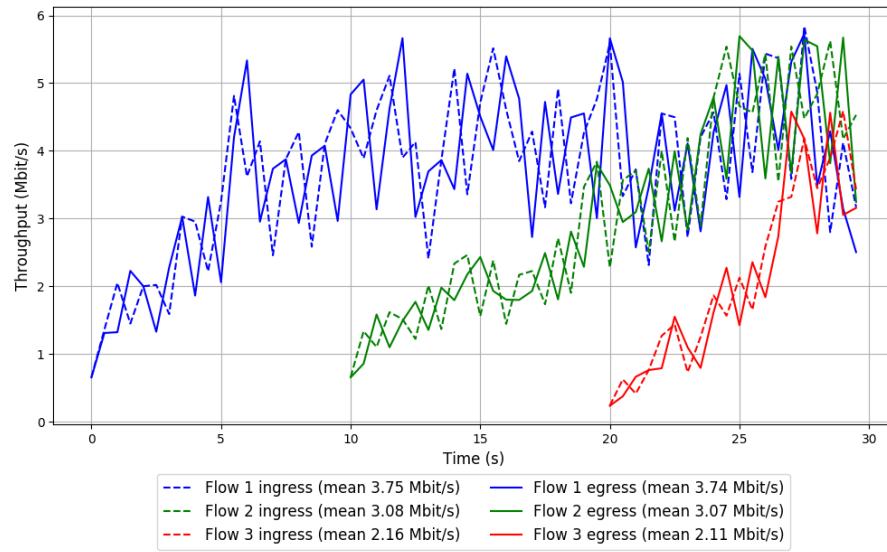


Run 2: Statistics of Sprout

```
Start at: 2018-02-13 13:53:57
End at: 2018-02-13 13:54:27
Local clock offset: -3.491 ms
Remote clock offset: -4.857 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 92.150 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 91.293 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 92.949 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 90.471 ms
Loss rate: 4.24%
```

Run 2: Report of Sprout — Data Link

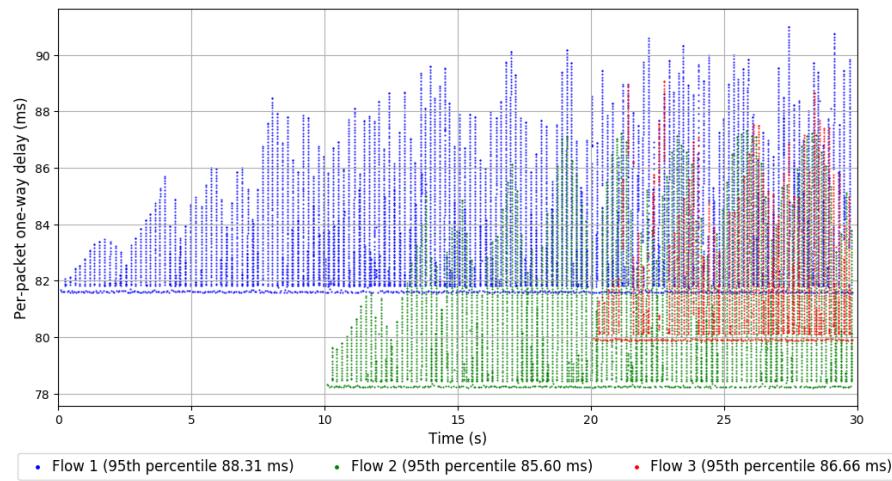
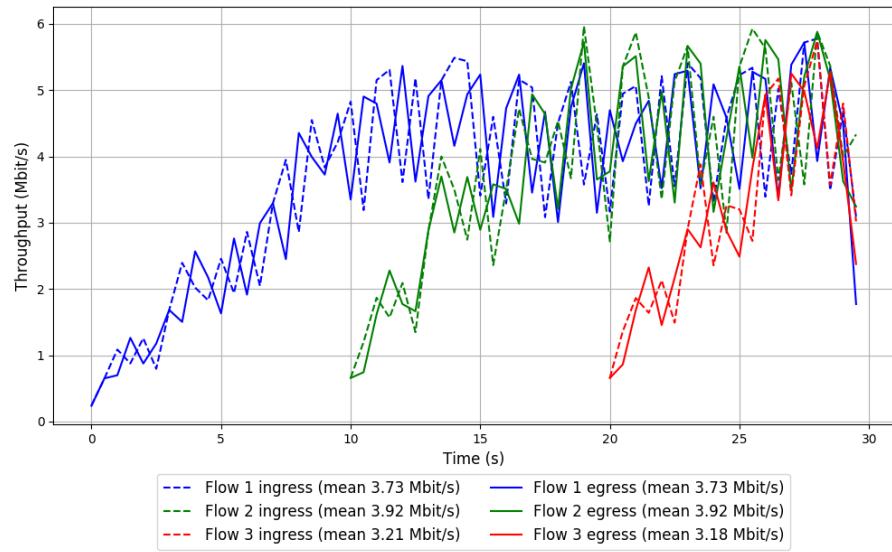


Run 3: Statistics of Sprout

```
Start at: 2018-02-13 14:17:36
End at: 2018-02-13 14:18:06
Local clock offset: -3.607 ms
Remote clock offset: 0.847 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 87.560 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 88.309 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 85.598 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 86.656 ms
Loss rate: 2.41%
```

Run 3: Report of Sprout — Data Link

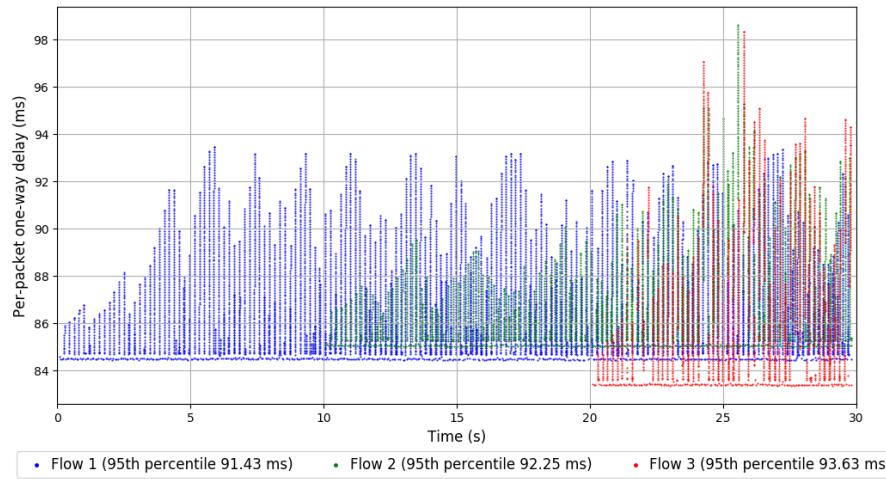
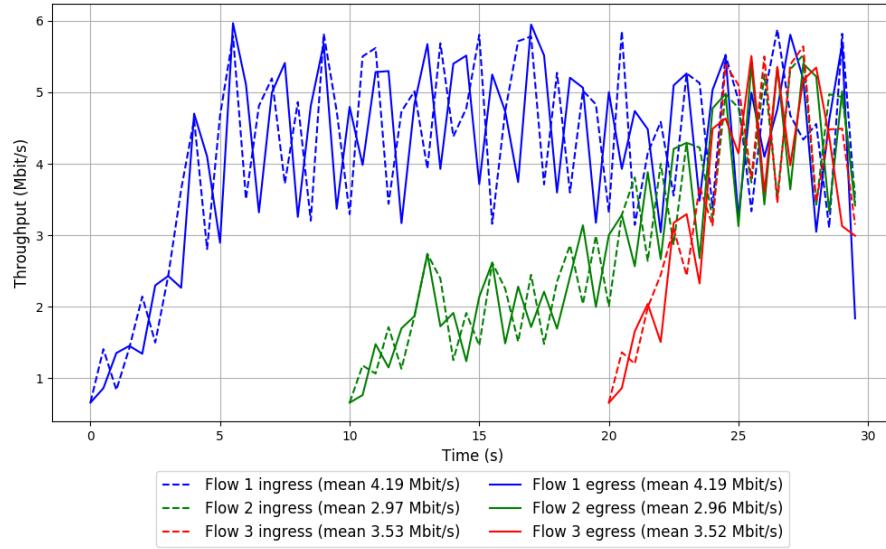


Run 4: Statistics of Sprout

```
Start at: 2018-02-13 14:41:10
End at: 2018-02-13 14:41:40
Local clock offset: -3.732 ms
Remote clock offset: -4.211 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 91.974 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 91.432 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 92.251 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 93.626 ms
Loss rate: 2.32%
```

Run 4: Report of Sprout — Data Link

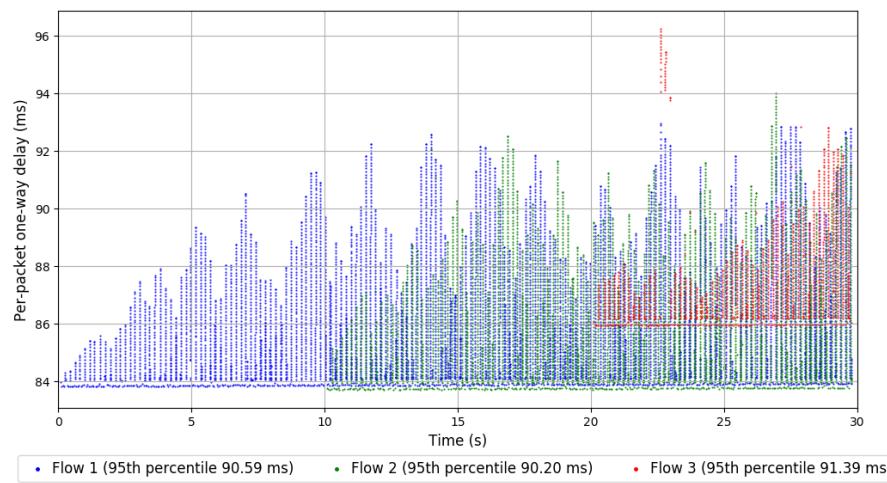
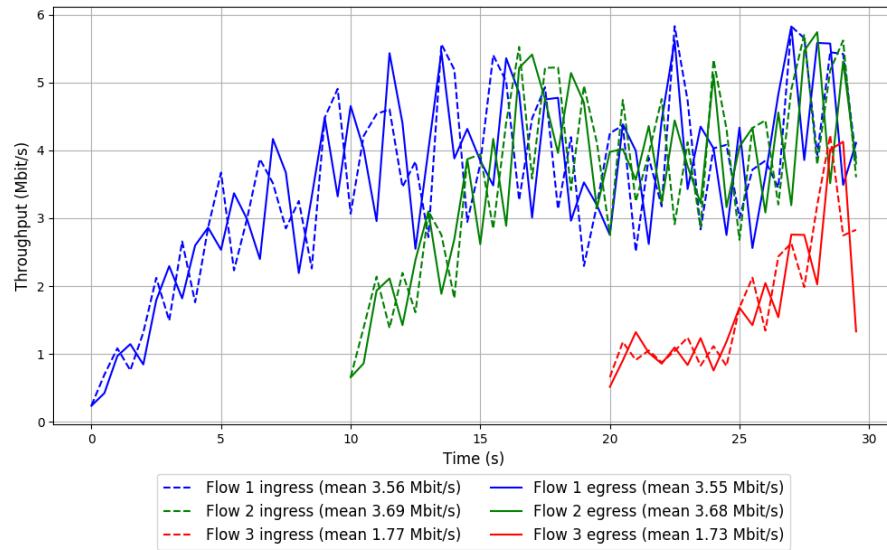


Run 5: Statistics of Sprout

```
Start at: 2018-02-13 15:04:41
End at: 2018-02-13 15:05:11
Local clock offset: -4.761 ms
Remote clock offset: -4.637 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 90.530 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 90.588 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 90.202 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 91.392 ms
Loss rate: 4.29%
```

Run 5: Report of Sprout — Data Link

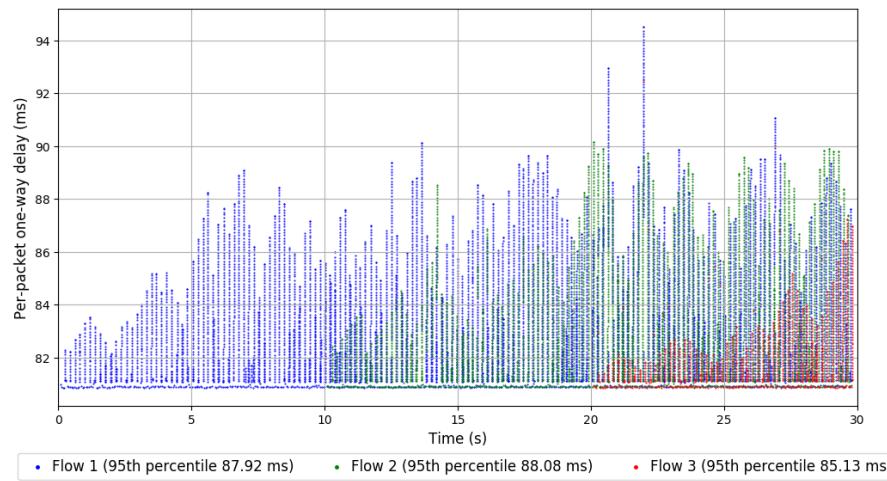
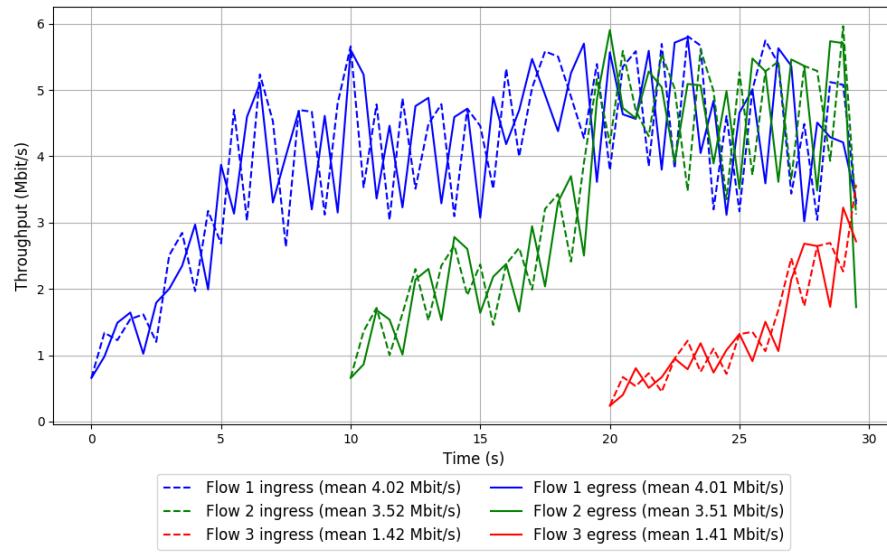


Run 6: Statistics of Sprout

```
Start at: 2018-02-13 15:28:17
End at: 2018-02-13 15:28:47
Local clock offset: -6.772 ms
Remote clock offset: 0.264 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 87.905 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 87.916 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 88.085 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 85.131 ms
Loss rate: 3.04%
```

Run 6: Report of Sprout — Data Link

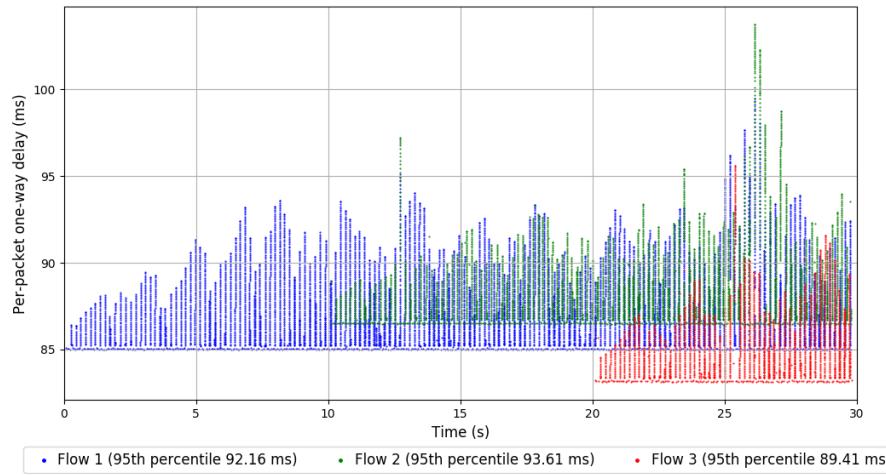
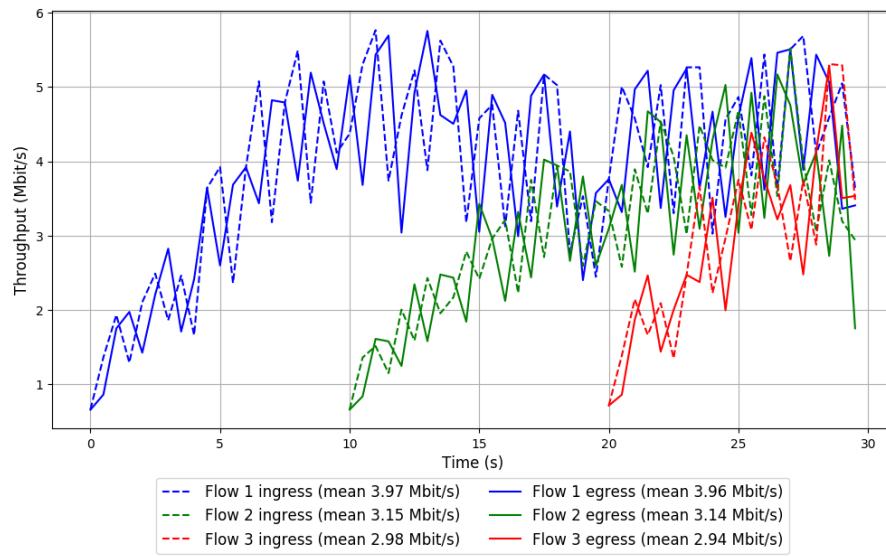


Run 7: Statistics of Sprout

```
Start at: 2018-02-13 15:51:52
End at: 2018-02-13 15:52:22
Local clock offset: -3.979 ms
Remote clock offset: -3.63 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 92.347 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 92.163 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 93.605 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 89.413 ms
Loss rate: 2.99%
```

Run 7: Report of Sprout — Data Link

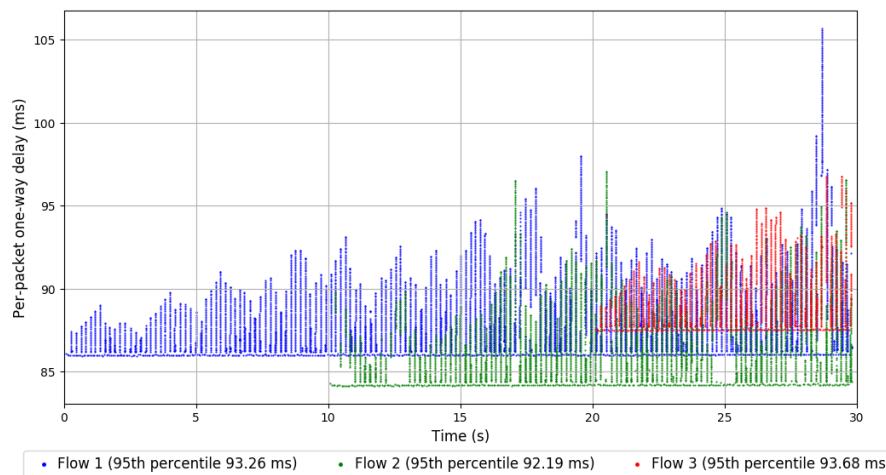
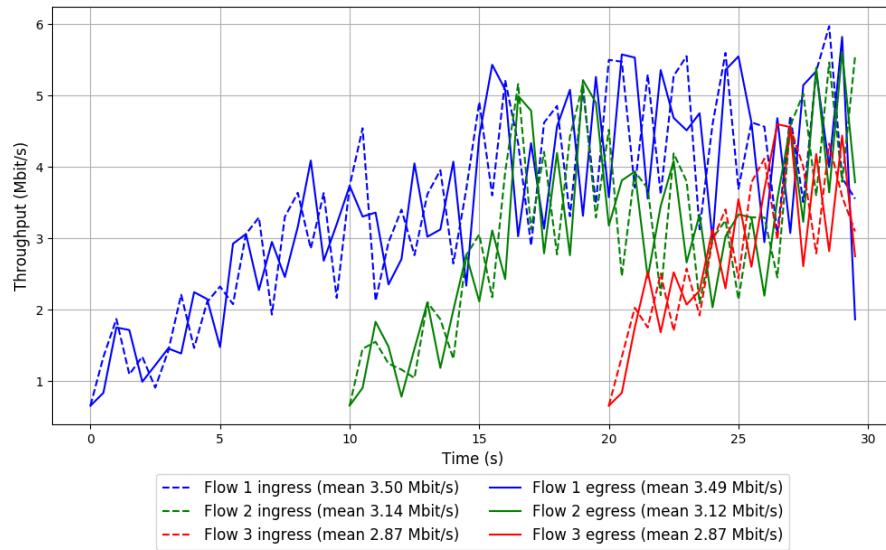


Run 8: Statistics of Sprout

```
Start at: 2018-02-13 16:15:35
End at: 2018-02-13 16:16:05
Local clock offset: -5.225 ms
Remote clock offset: -4.456 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 93.071 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 93.257 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 92.195 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 93.678 ms
Loss rate: 1.77%
```

Run 8: Report of Sprout — Data Link

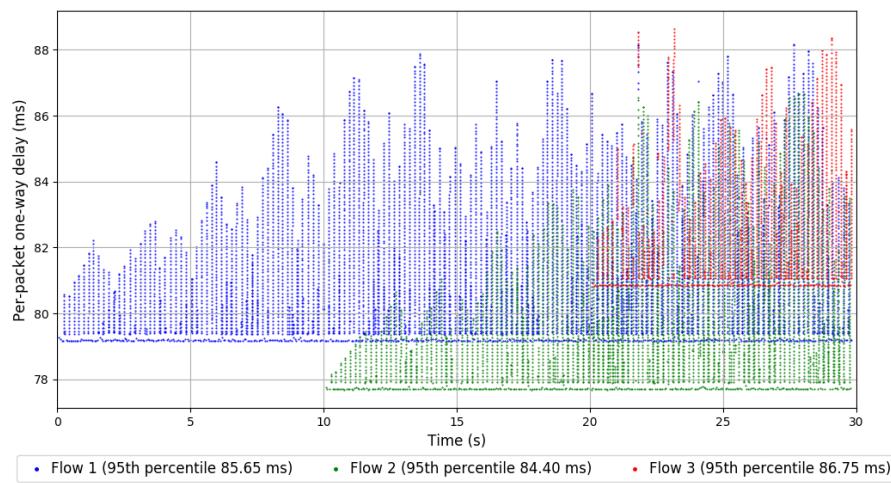
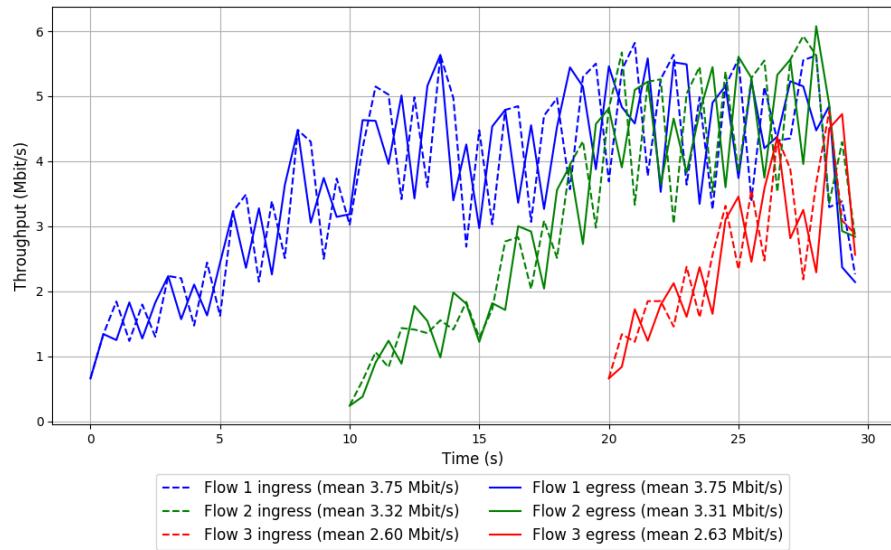


Run 9: Statistics of Sprout

```
Start at: 2018-02-13 16:39:17
End at: 2018-02-13 16:39:47
Local clock offset: -6.807 ms
Remote clock offset: 2.099 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 85.566 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 85.653 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 84.404 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 86.750 ms
Loss rate: 0.63%
```

Run 9: Report of Sprout — Data Link

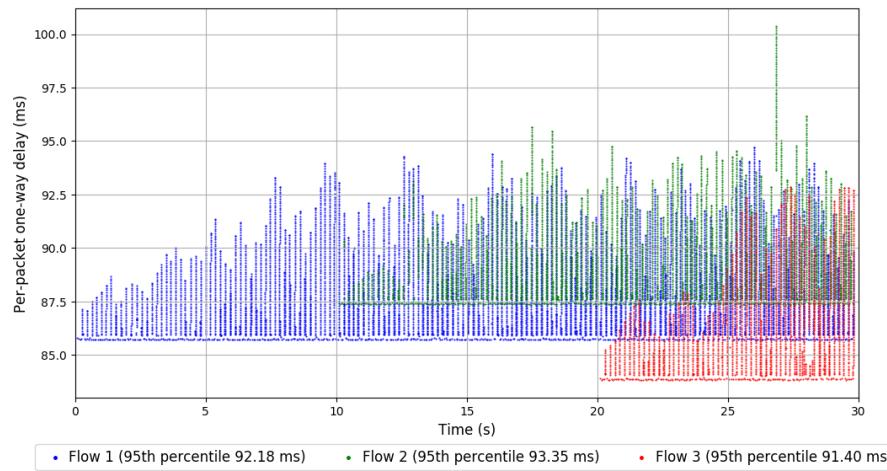
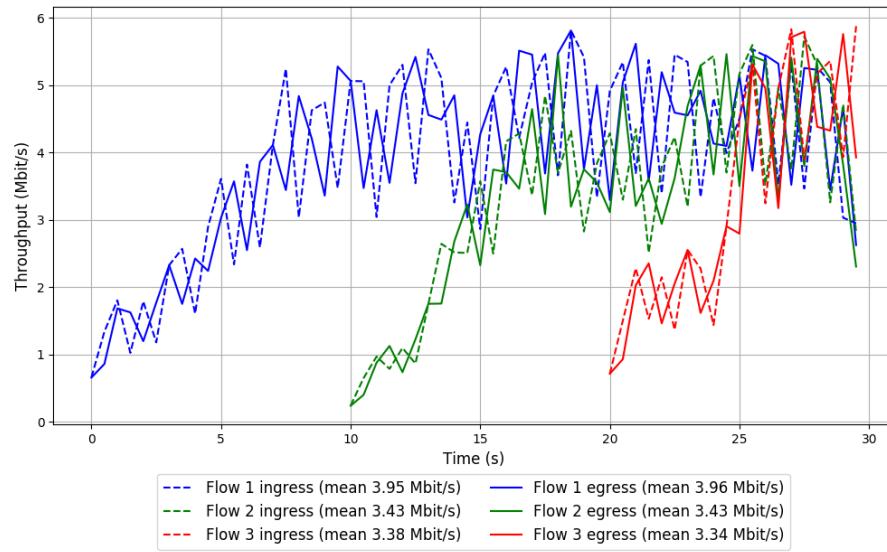


Run 10: Statistics of Sprout

```
Start at: 2018-02-13 17:03:01
End at: 2018-02-13 17:03:31
Local clock offset: -7.939 ms
Remote clock offset: -4.481 ms

# Below is generated by plot.py at 2018-02-13 21:31:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 92.527 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 92.183 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 93.347 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 91.400 ms
Loss rate: 2.92%
```

Run 10: Report of Sprout — Data Link

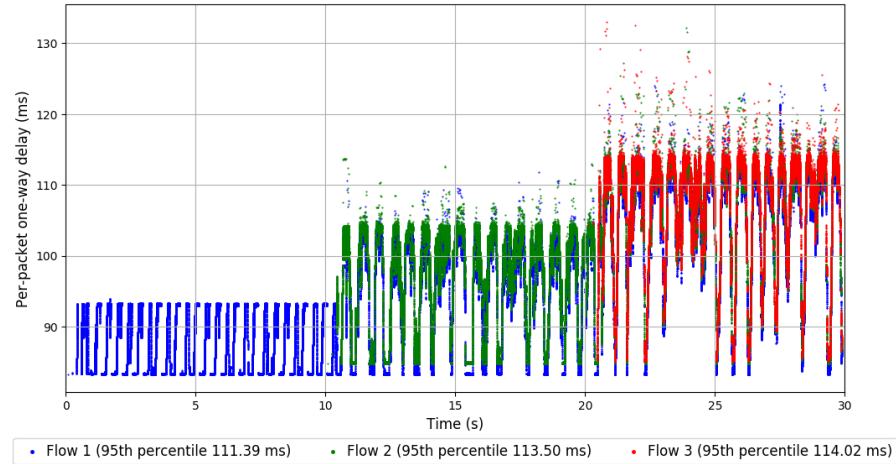
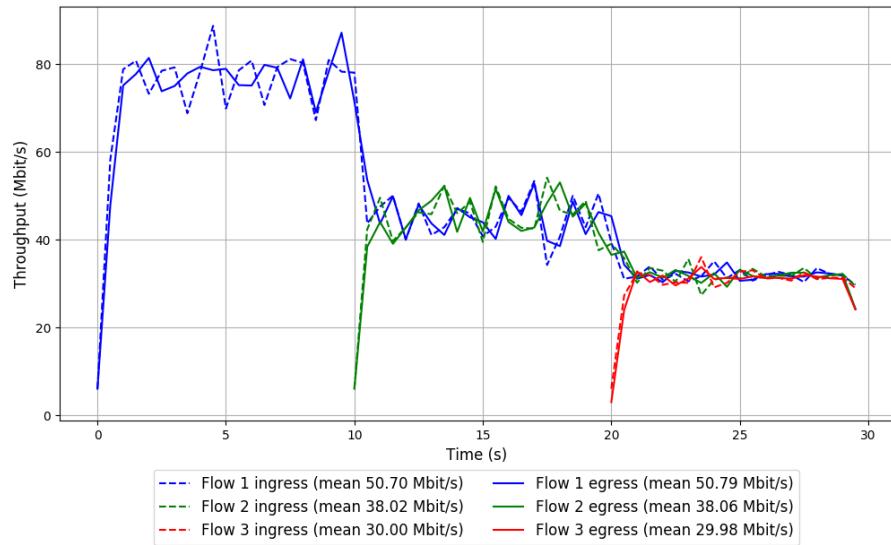


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-02-13 13:46:07
End at: 2018-02-13 13:46:37
Local clock offset: -3.425 ms
Remote clock offset: -3.706 ms

# Below is generated by plot.py at 2018-02-13 21:33:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.89 Mbit/s
95th percentile per-packet one-way delay: 113.369 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 50.79 Mbit/s
95th percentile per-packet one-way delay: 111.386 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 38.06 Mbit/s
95th percentile per-packet one-way delay: 113.500 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 29.98 Mbit/s
95th percentile per-packet one-way delay: 114.017 ms
Loss rate: 2.04%
```

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

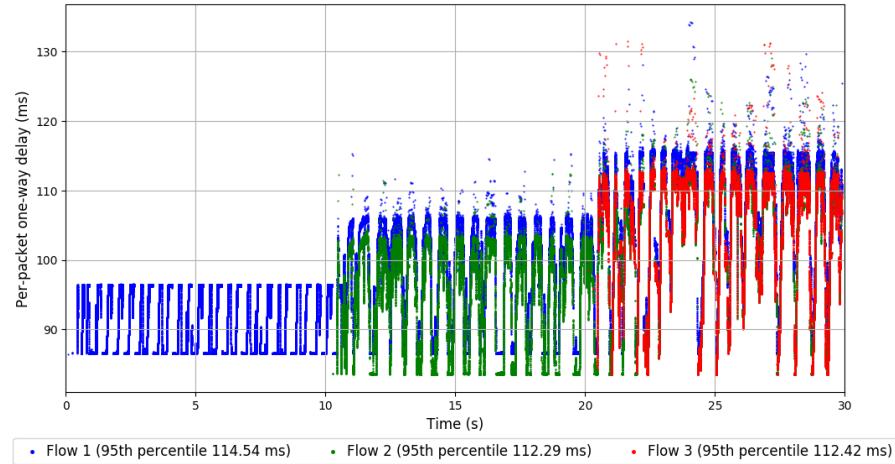
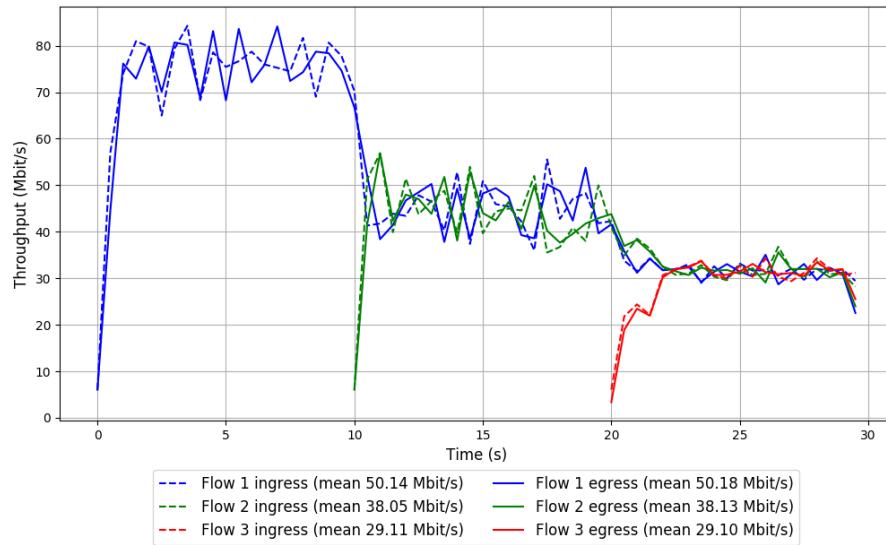


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-02-13 14:09:45
End at: 2018-02-13 14:10:15
Local clock offset: -3.629 ms
Remote clock offset: -4.105 ms

# Below is generated by plot.py at 2018-02-13 21:33:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 112.532 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 114.543 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 38.13 Mbit/s
95th percentile per-packet one-way delay: 112.292 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 29.10 Mbit/s
95th percentile per-packet one-way delay: 112.421 ms
Loss rate: 2.02%
```

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

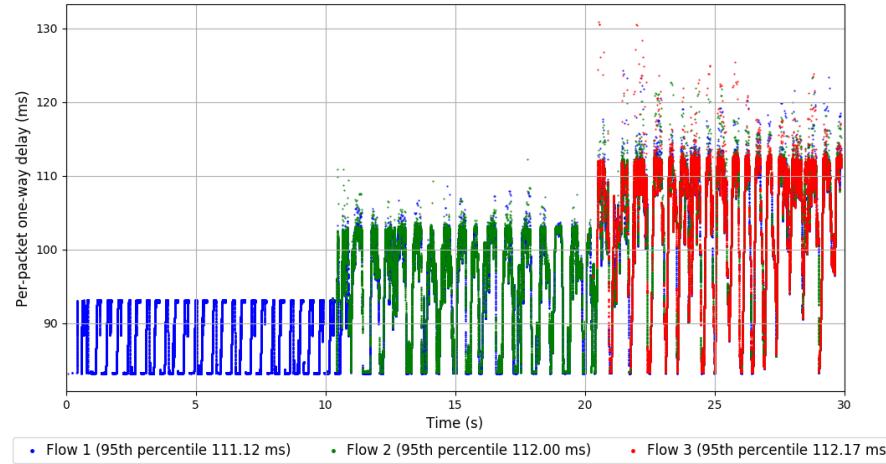
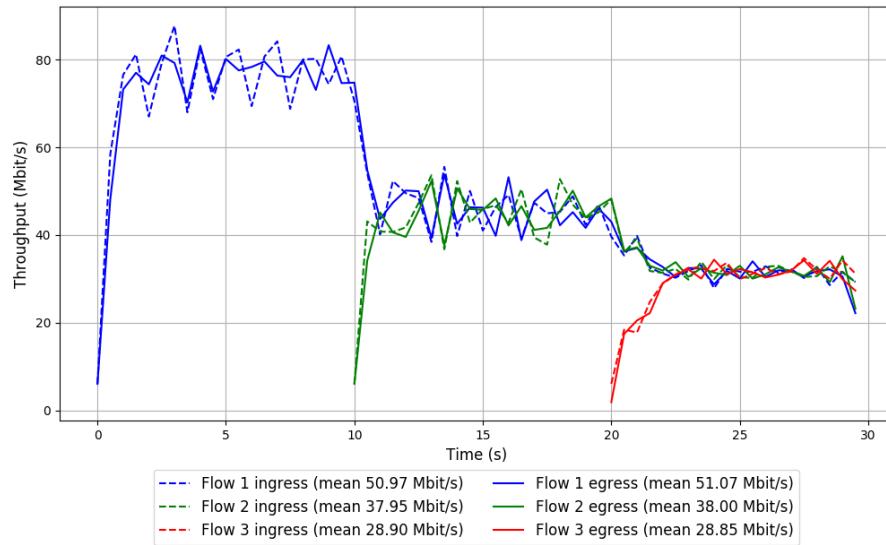


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-02-13 14:33:20
End at: 2018-02-13 14:33:50
Local clock offset: -3.667 ms
Remote clock offset: -4.179 ms

# Below is generated by plot.py at 2018-02-13 21:33:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.75 Mbit/s
95th percentile per-packet one-way delay: 111.901 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 51.07 Mbit/s
95th percentile per-packet one-way delay: 111.118 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 112.005 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 28.85 Mbit/s
95th percentile per-packet one-way delay: 112.166 ms
Loss rate: 2.17%
```

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

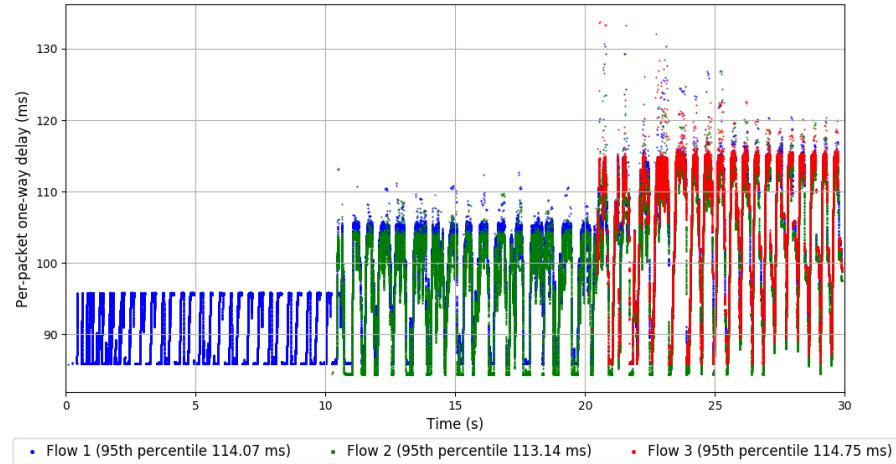
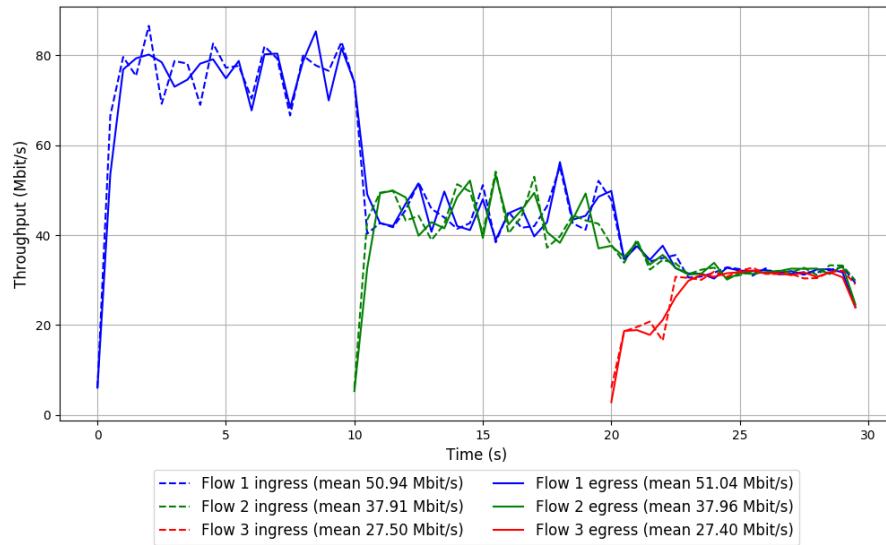


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-02-13 14:56:52
End at: 2018-02-13 14:57:22
Local clock offset: -3.63 ms
Remote clock offset: -4.878 ms

# Below is generated by plot.py at 2018-02-13 21:33:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.23 Mbit/s
95th percentile per-packet one-way delay: 114.405 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 51.04 Mbit/s
95th percentile per-packet one-way delay: 114.072 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 37.96 Mbit/s
95th percentile per-packet one-way delay: 113.140 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 27.40 Mbit/s
95th percentile per-packet one-way delay: 114.755 ms
Loss rate: 2.28%
```

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

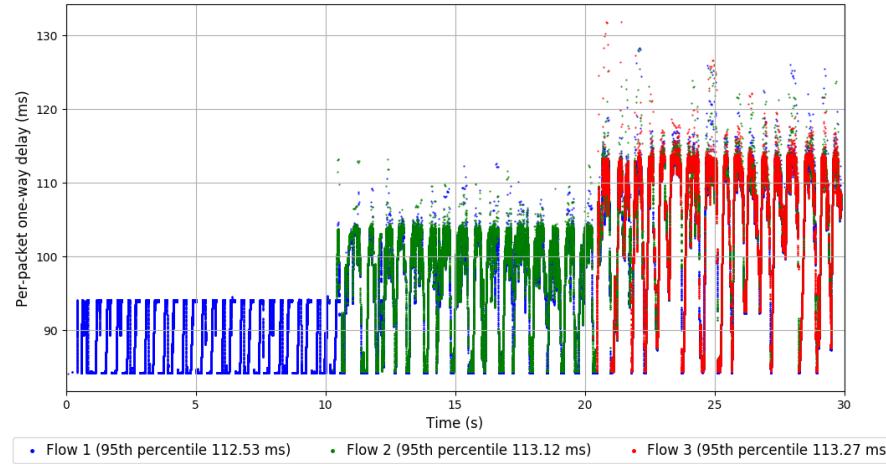
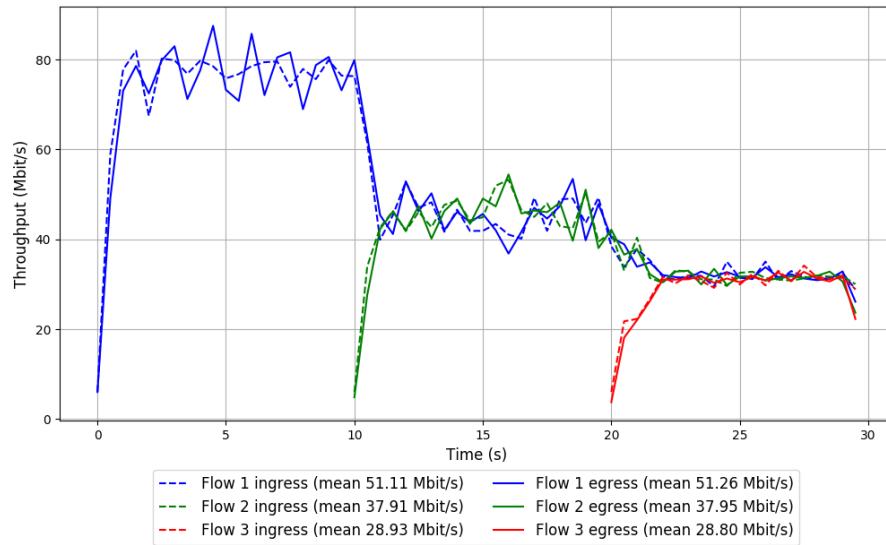


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-02-13 15:20:28
End at: 2018-02-13 15:20:58
Local clock offset: -6.322 ms
Remote clock offset: -4.592 ms

# Below is generated by plot.py at 2018-02-13 21:33:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.89 Mbit/s
95th percentile per-packet one-way delay: 113.010 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 51.26 Mbit/s
95th percentile per-packet one-way delay: 112.525 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 113.120 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 113.268 ms
Loss rate: 2.43%
```

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

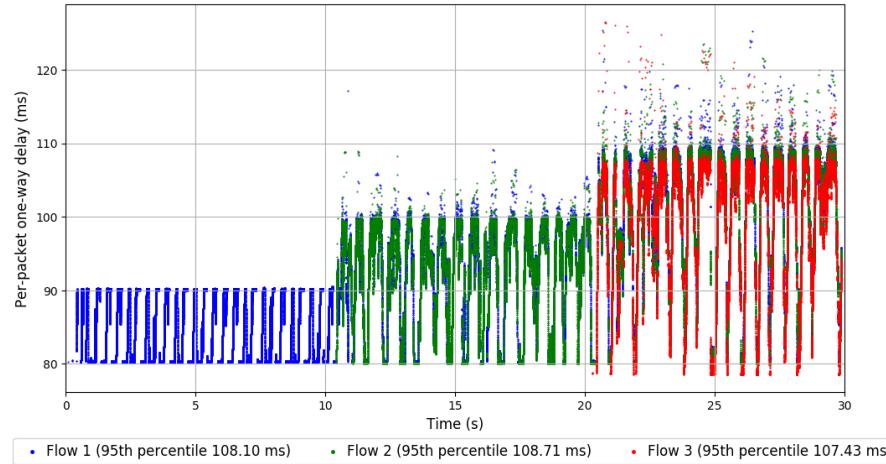
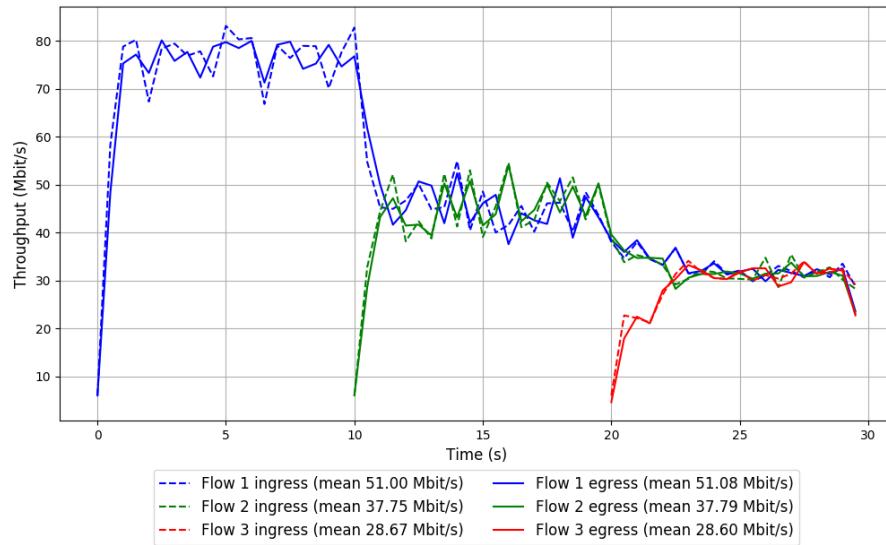


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-02-13 15:44:02
End at: 2018-02-13 15:44:32
Local clock offset: -4.603 ms
Remote clock offset: 1.175 ms

# Below is generated by plot.py at 2018-02-13 21:33:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.55 Mbit/s
95th percentile per-packet one-way delay: 108.432 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 51.08 Mbit/s
95th percentile per-packet one-way delay: 108.102 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 37.79 Mbit/s
95th percentile per-packet one-way delay: 108.710 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 28.60 Mbit/s
95th percentile per-packet one-way delay: 107.434 ms
Loss rate: 2.17%
```

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

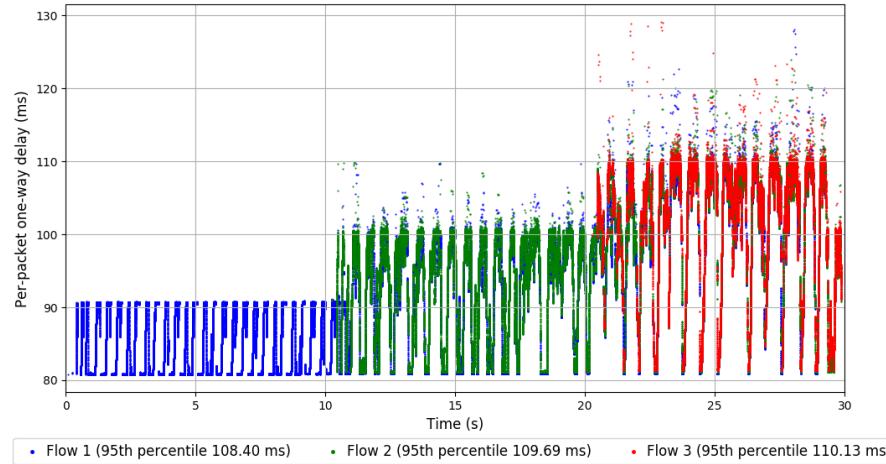
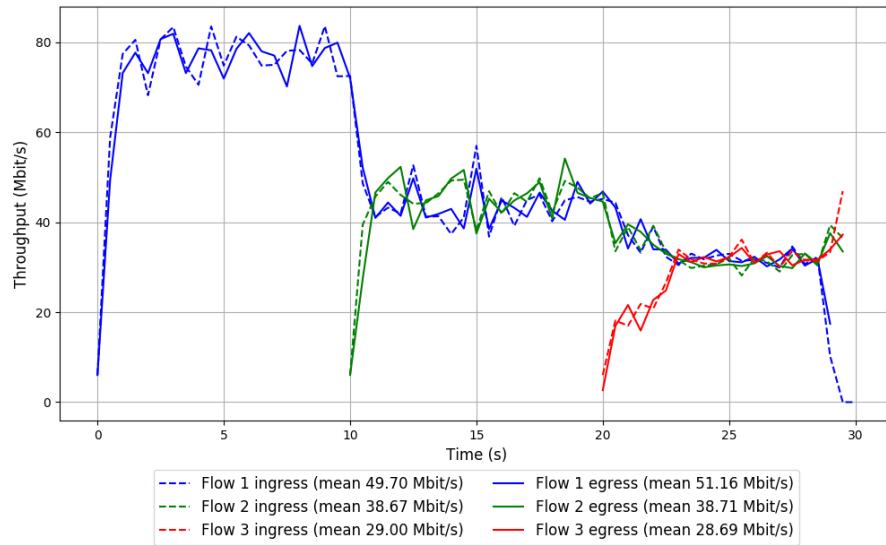


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-02-13 16:07:36
End at: 2018-02-13 16:08:06
Local clock offset: -3.58 ms
Remote clock offset: 0.267 ms

# Below is generated by plot.py at 2018-02-13 21:34:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 109.579 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 51.16 Mbit/s
95th percentile per-packet one-way delay: 108.403 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 109.686 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 28.69 Mbit/s
95th percentile per-packet one-way delay: 110.126 ms
Loss rate: 2.75%
```

Run 7: Report of TaoVA-100x — Data Link

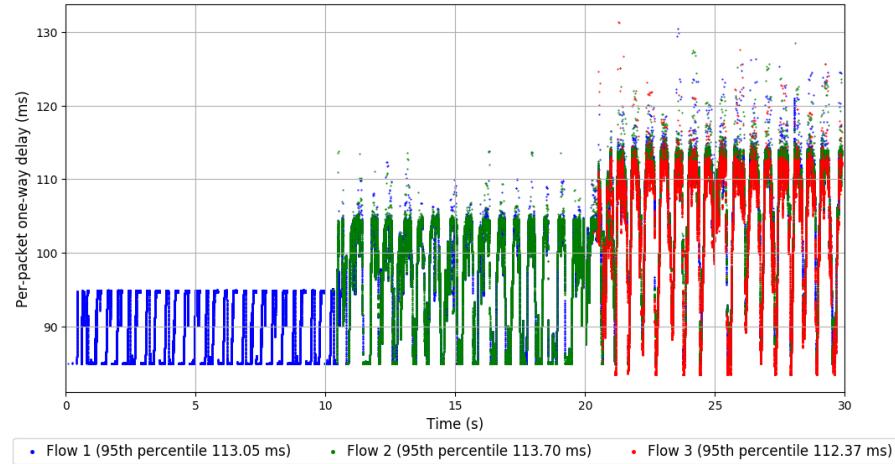
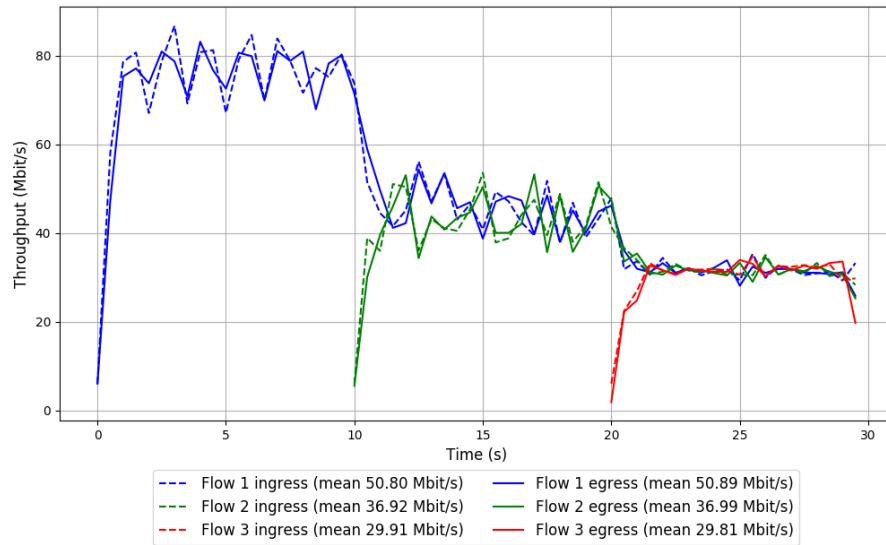


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-02-13 16:31:27
End at: 2018-02-13 16:31:57
Local clock offset: -6.567 ms
Remote clock offset: -3.525 ms

# Below is generated by plot.py at 2018-02-13 21:34:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.22 Mbit/s
95th percentile per-packet one-way delay: 113.424 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 50.89 Mbit/s
95th percentile per-packet one-way delay: 113.051 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 113.696 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 29.81 Mbit/s
95th percentile per-packet one-way delay: 112.366 ms
Loss rate: 2.23%
```

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

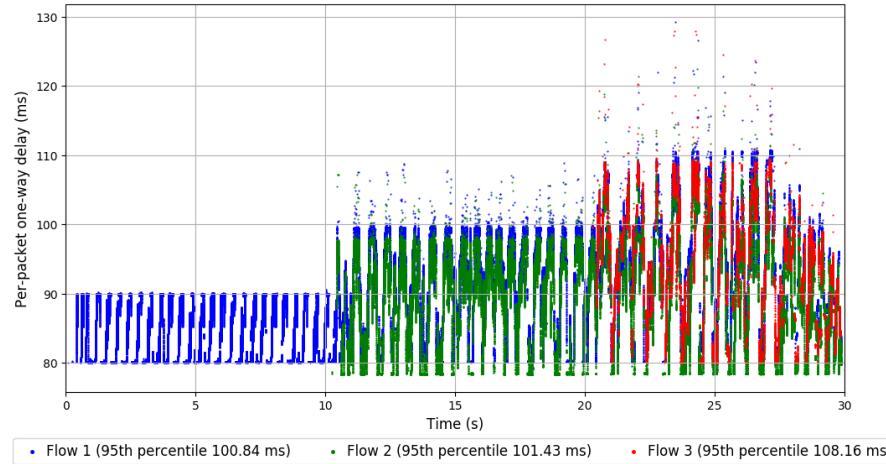
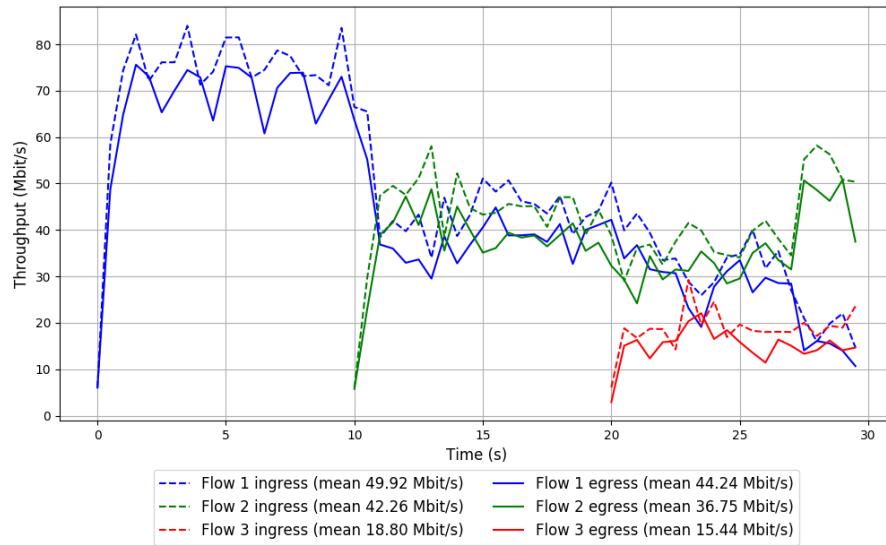


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-02-13 16:55:08
End at: 2018-02-13 16:55:38
Local clock offset: -7.638 ms
Remote clock offset: 1.098 ms

# Below is generated by plot.py at 2018-02-13 21:35:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 102.339 ms
Loss rate: 12.92%
-- Flow 1:
Average throughput: 44.24 Mbit/s
95th percentile per-packet one-way delay: 100.842 ms
Loss rate: 11.55%
-- Flow 2:
Average throughput: 36.75 Mbit/s
95th percentile per-packet one-way delay: 101.432 ms
Loss rate: 13.83%
-- Flow 3:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 108.157 ms
Loss rate: 19.76%
```

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

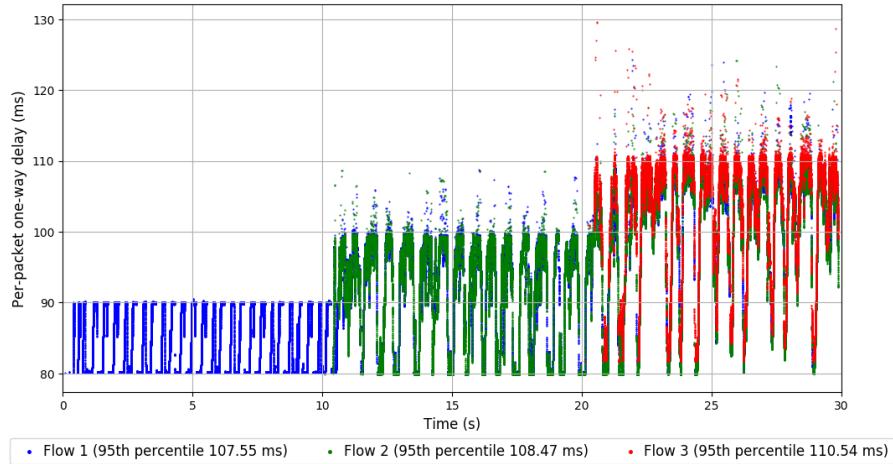
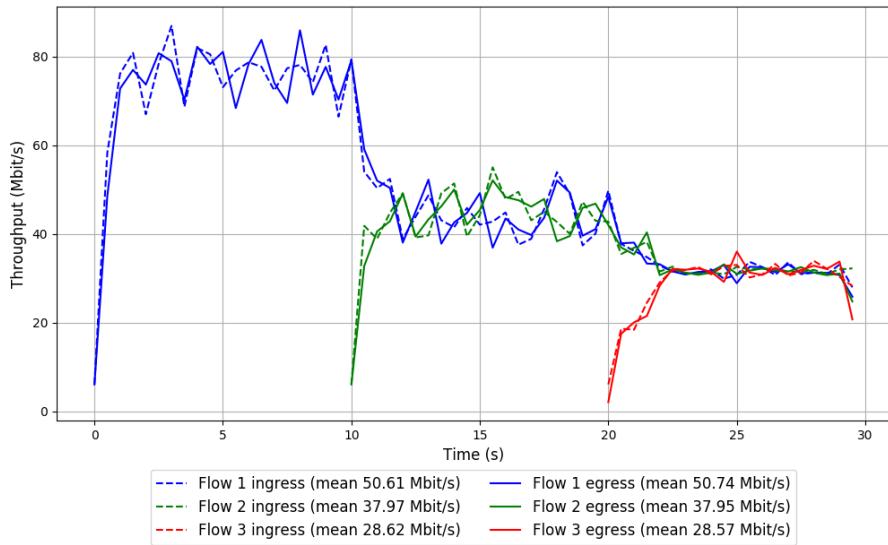


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-02-13 17:18:59
End at: 2018-02-13 17:19:29
Local clock offset: -7.964 ms
Remote clock offset: 0.925 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.32 Mbit/s
95th percentile per-packet one-way delay: 108.735 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 50.74 Mbit/s
95th percentile per-packet one-way delay: 107.547 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 108.474 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 28.57 Mbit/s
95th percentile per-packet one-way delay: 110.543 ms
Loss rate: 2.01%
```

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

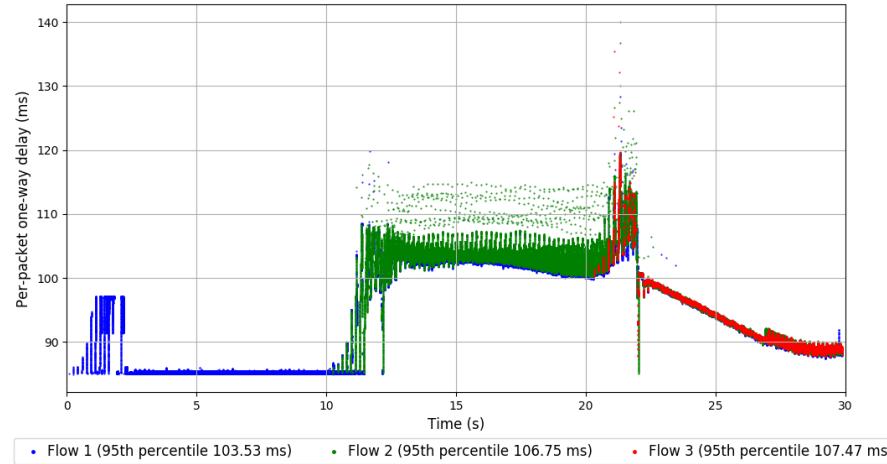
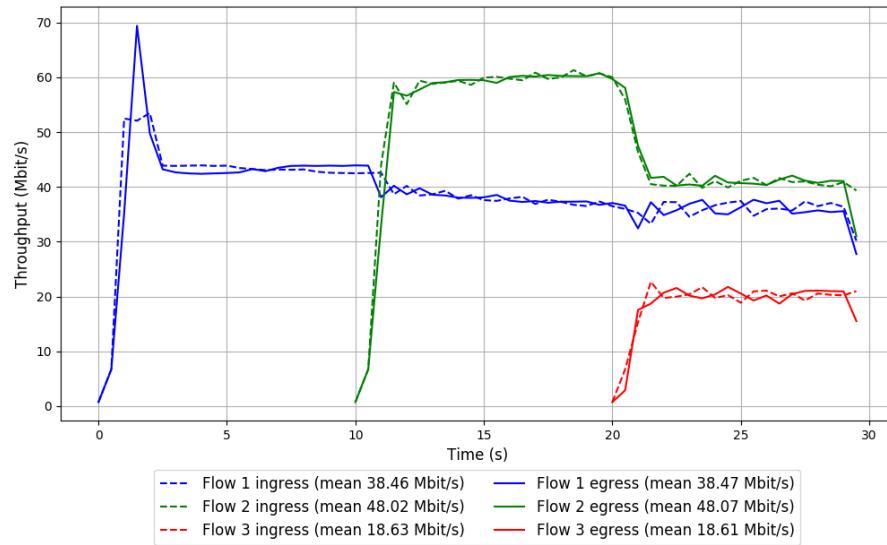


Run 1: Statistics of TCP Vegas

```
Start at: 2018-02-13 13:43:26
End at: 2018-02-13 13:43:56
Local clock offset: -3.463 ms
Remote clock offset: -3.582 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.48 Mbit/s
95th percentile per-packet one-way delay: 105.846 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 38.47 Mbit/s
95th percentile per-packet one-way delay: 103.534 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 48.07 Mbit/s
95th percentile per-packet one-way delay: 106.752 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 107.468 ms
Loss rate: 1.97%
```

Run 1: Report of TCP Vegas — Data Link

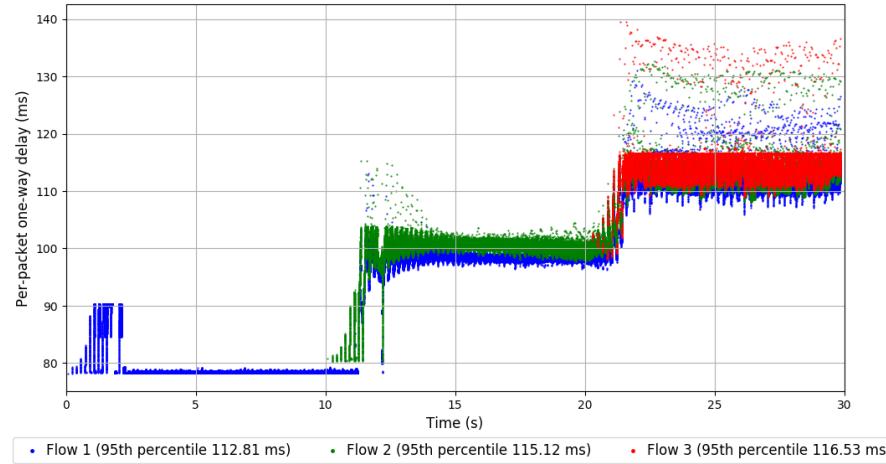
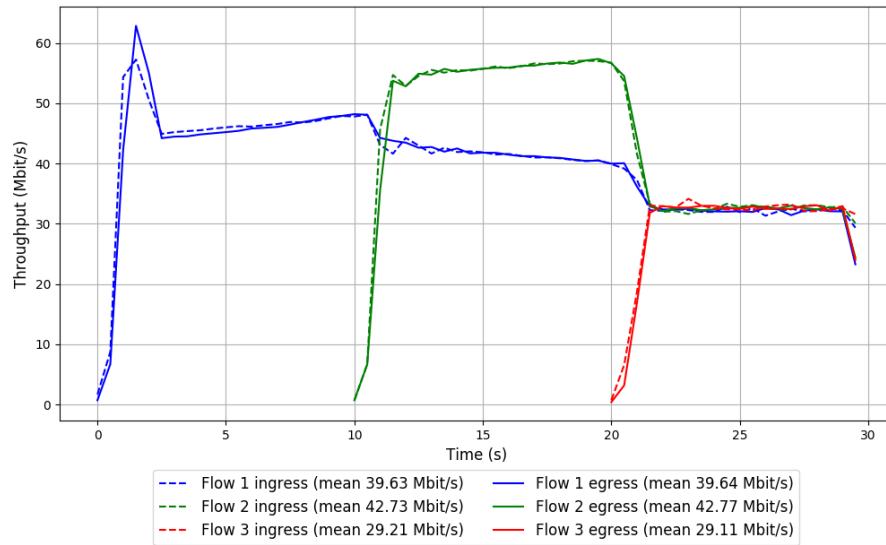


Run 2: Statistics of TCP Vegas

```
Start at: 2018-02-13 14:07:04
End at: 2018-02-13 14:07:34
Local clock offset: -3.657 ms
Remote clock offset: 0.798 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.54 Mbit/s
95th percentile per-packet one-way delay: 115.532 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 39.64 Mbit/s
95th percentile per-packet one-way delay: 112.814 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 42.77 Mbit/s
95th percentile per-packet one-way delay: 115.125 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 29.11 Mbit/s
95th percentile per-packet one-way delay: 116.533 ms
Loss rate: 2.46%
```

Run 2: Report of TCP Vegas — Data Link

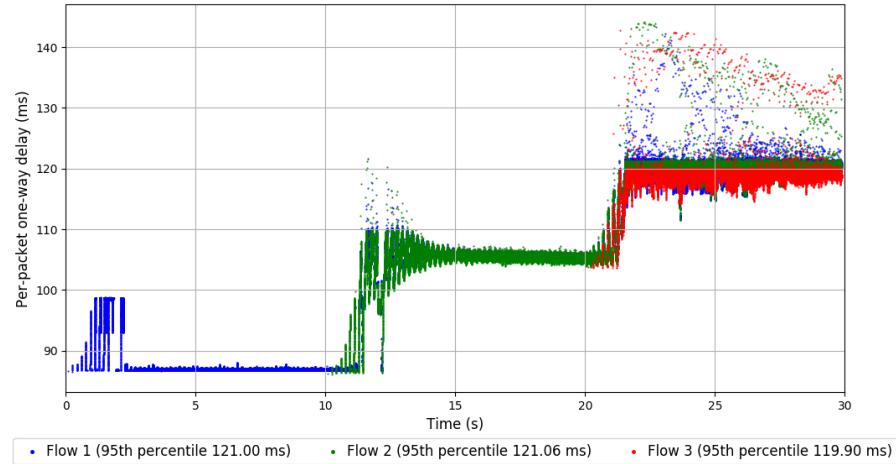
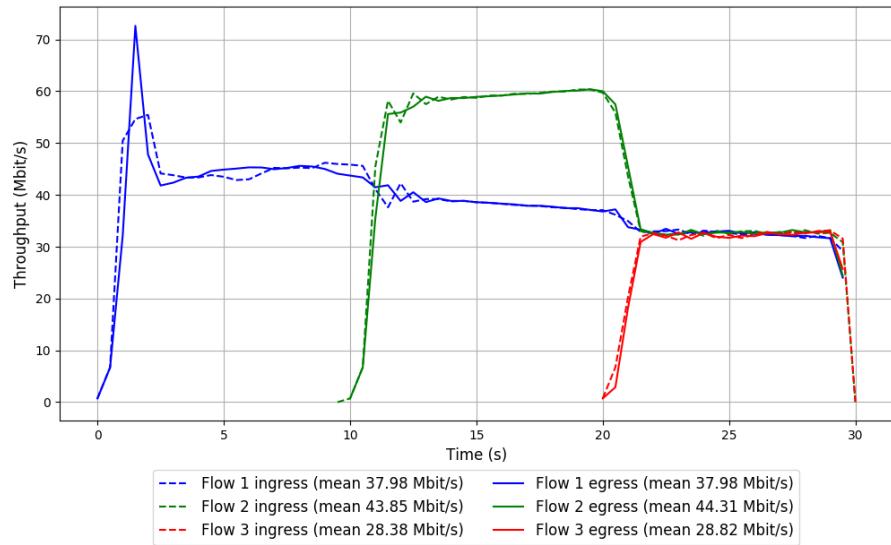


Run 3: Statistics of TCP Vegas

```
Start at: 2018-02-13 14:30:40
End at: 2018-02-13 14:31:10
Local clock offset: -3.647 ms
Remote clock offset: -4.161 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.87 Mbit/s
95th percentile per-packet one-way delay: 121.021 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 37.98 Mbit/s
95th percentile per-packet one-way delay: 121.005 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 44.31 Mbit/s
95th percentile per-packet one-way delay: 121.063 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 28.82 Mbit/s
95th percentile per-packet one-way delay: 119.897 ms
Loss rate: 2.41%
```

Run 3: Report of TCP Vegas — Data Link

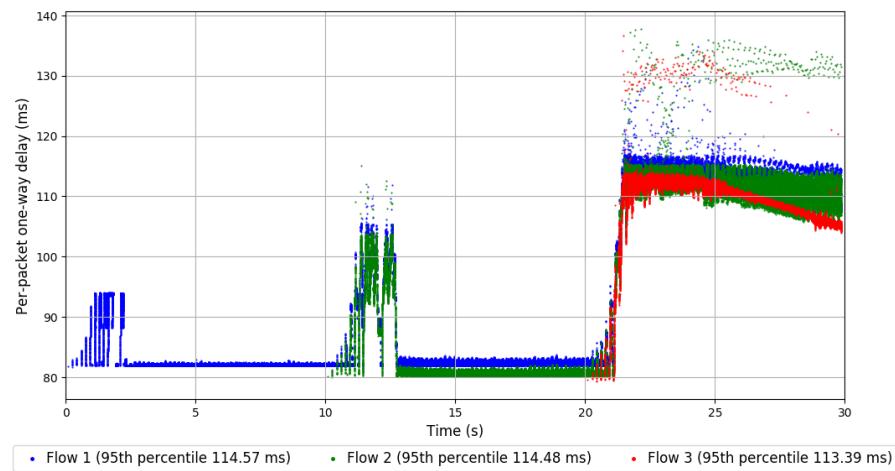
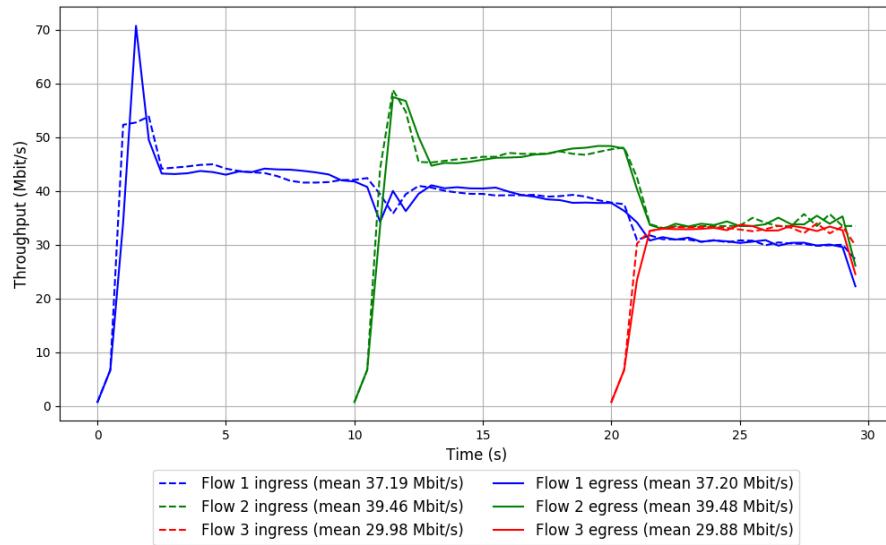


Run 4: Statistics of TCP Vegas

```
Start at: 2018-02-13 14:54:13
End at: 2018-02-13 14:54:43
Local clock offset: -3.635 ms
Remote clock offset: 0.702 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.21 Mbit/s
95th percentile per-packet one-way delay: 114.366 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 37.20 Mbit/s
95th percentile per-packet one-way delay: 114.570 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 39.48 Mbit/s
95th percentile per-packet one-way delay: 114.482 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 29.88 Mbit/s
95th percentile per-packet one-way delay: 113.393 ms
Loss rate: 2.12%
```

Run 4: Report of TCP Vegas — Data Link

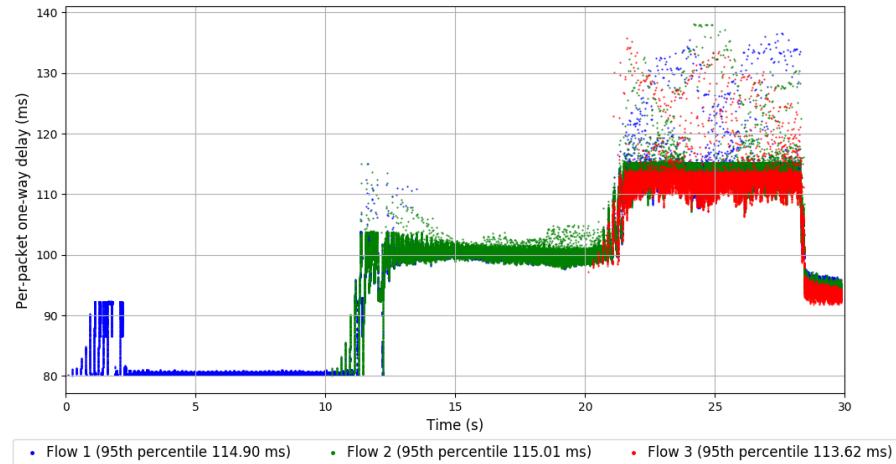
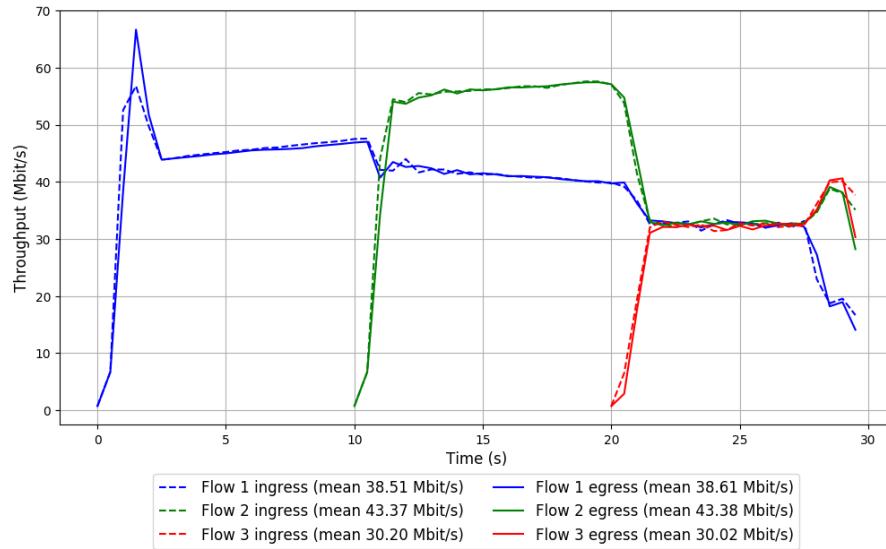


Run 5: Statistics of TCP Vegas

```
Start at: 2018-02-13 15:17:47
End at: 2018-02-13 15:18:17
Local clock offset: -6.191 ms
Remote clock offset: 1.055 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 114.927 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 114.904 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 43.38 Mbit/s
95th percentile per-packet one-way delay: 115.006 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 30.02 Mbit/s
95th percentile per-packet one-way delay: 113.619 ms
Loss rate: 2.44%
```

Run 5: Report of TCP Vegas — Data Link

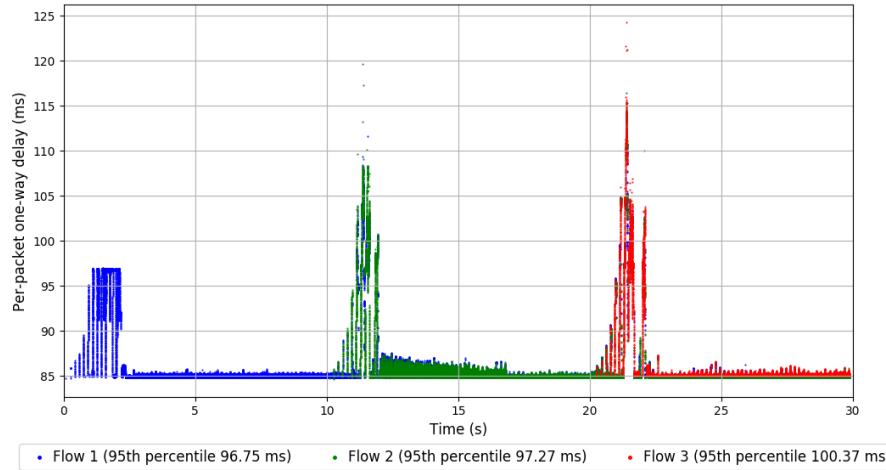
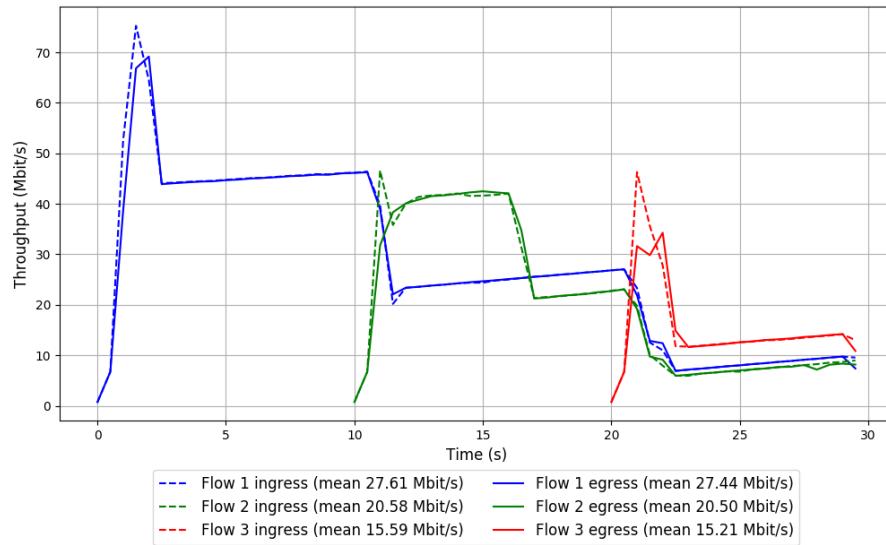


Run 6: Statistics of TCP Vegas

```
Start at: 2018-02-13 15:41:24
End at: 2018-02-13 15:41:54
Local clock offset: -4.99 ms
Remote clock offset: -3.798 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.04 Mbit/s
95th percentile per-packet one-way delay: 96.857 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 96.746 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 20.50 Mbit/s
95th percentile per-packet one-way delay: 97.274 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 100.368 ms
Loss rate: 4.08%
```

Run 6: Report of TCP Vegas — Data Link

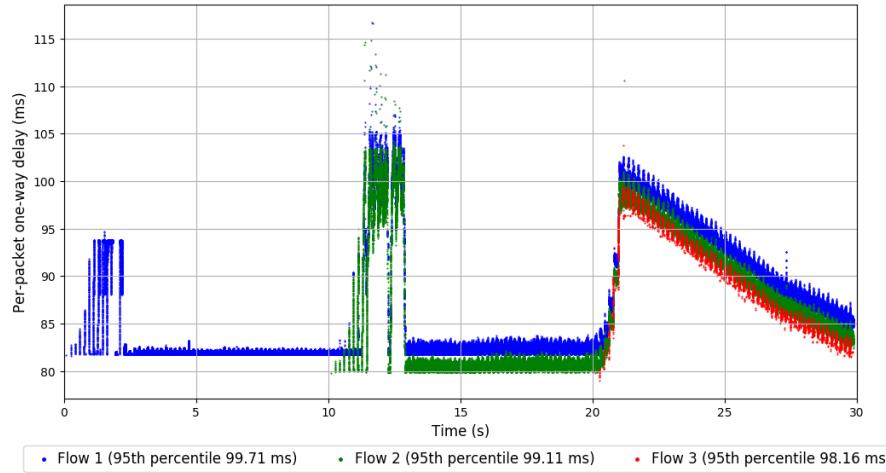
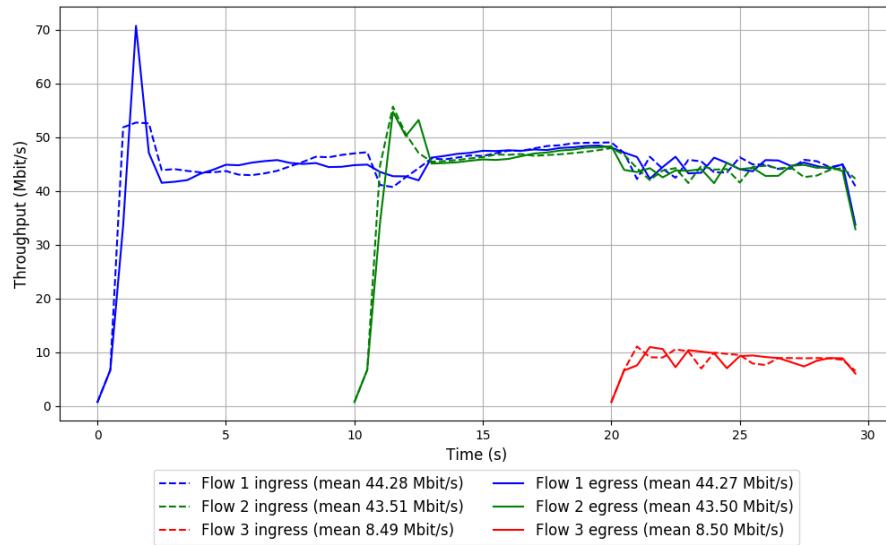


Run 7: Statistics of TCP Vegas

```
Start at: 2018-02-13 16:04:55
End at: 2018-02-13 16:05:25
Local clock offset: -3.652 ms
Remote clock offset: 1.229 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.94 Mbit/s
95th percentile per-packet one-way delay: 99.446 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 44.27 Mbit/s
95th percentile per-packet one-way delay: 99.706 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 43.50 Mbit/s
95th percentile per-packet one-way delay: 99.113 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 98.162 ms
Loss rate: 1.81%
```

Run 7: Report of TCP Vegas — Data Link

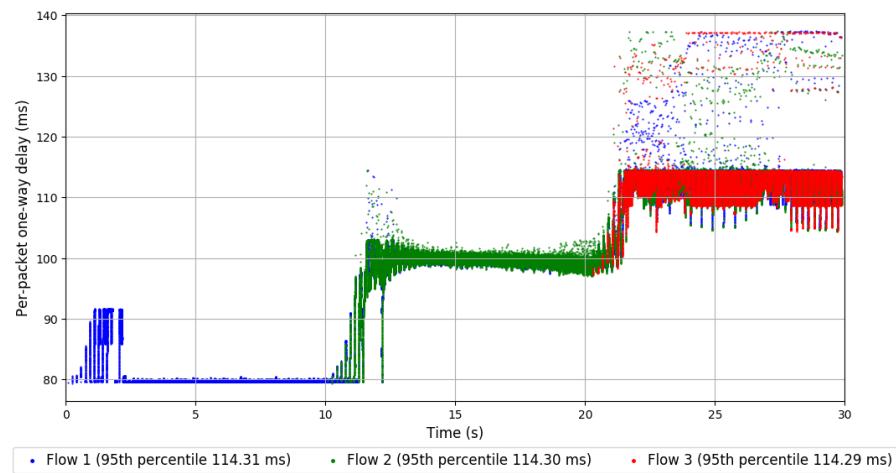
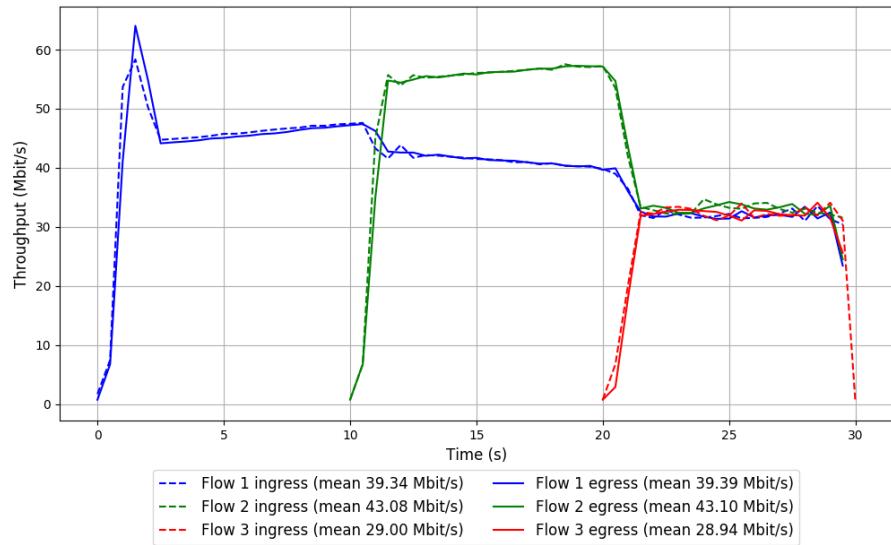


Run 8: Statistics of TCP Vegas

```
Start at: 2018-02-13 16:28:45
End at: 2018-02-13 16:29:15
Local clock offset: -6.36 ms
Remote clock offset: 0.467 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.47 Mbit/s
95th percentile per-packet one-way delay: 114.300 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 114.312 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 43.10 Mbit/s
95th percentile per-packet one-way delay: 114.300 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 28.94 Mbit/s
95th percentile per-packet one-way delay: 114.294 ms
Loss rate: 2.47%
```

Run 8: Report of TCP Vegas — Data Link

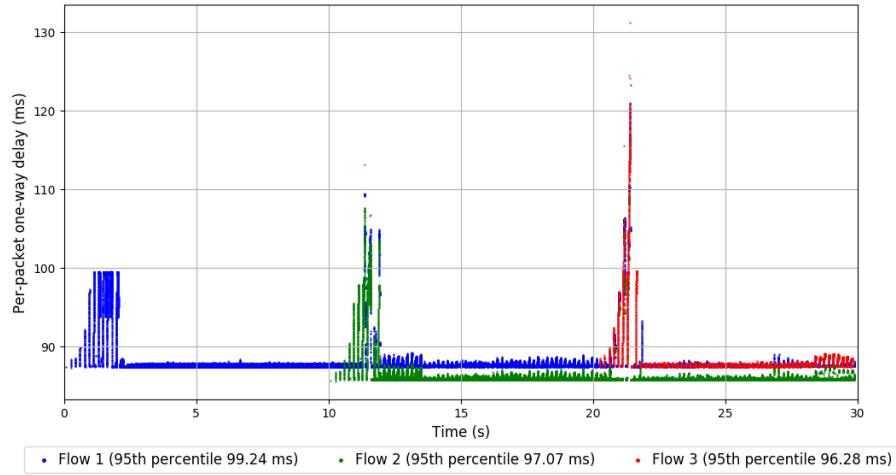
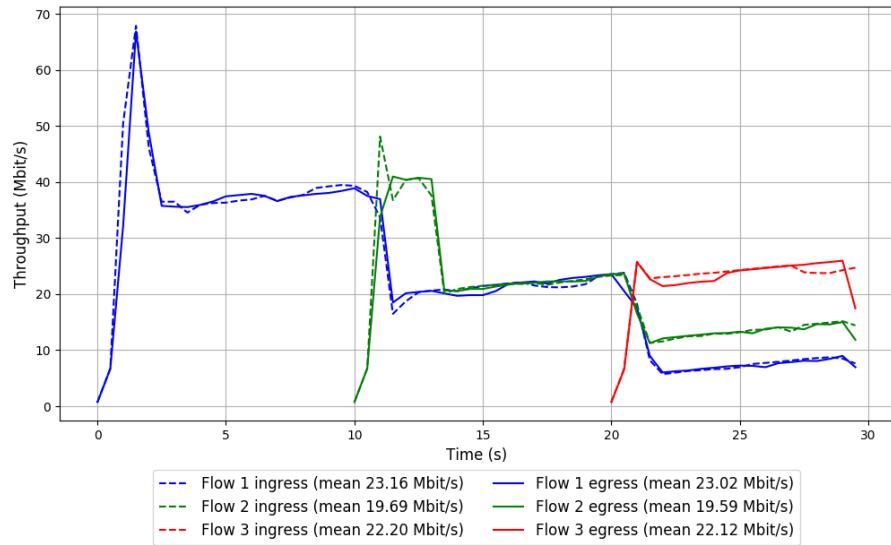


Run 9: Statistics of TCP Vegas

```
Start at: 2018-02-13 16:52:22
End at: 2018-02-13 16:52:52
Local clock offset: -7.593 ms
Remote clock offset: -4.464 ms

# Below is generated by plot.py at 2018-02-13 21:36:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.29 Mbit/s
95th percentile per-packet one-way delay: 97.713 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 99.237 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 19.59 Mbit/s
95th percentile per-packet one-way delay: 97.067 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 22.12 Mbit/s
95th percentile per-packet one-way delay: 96.285 ms
Loss rate: 2.02%
```

Run 9: Report of TCP Vegas — Data Link

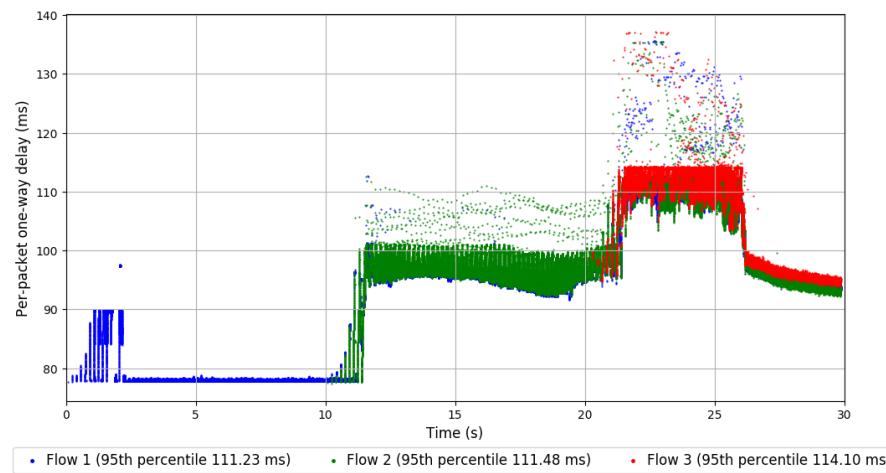
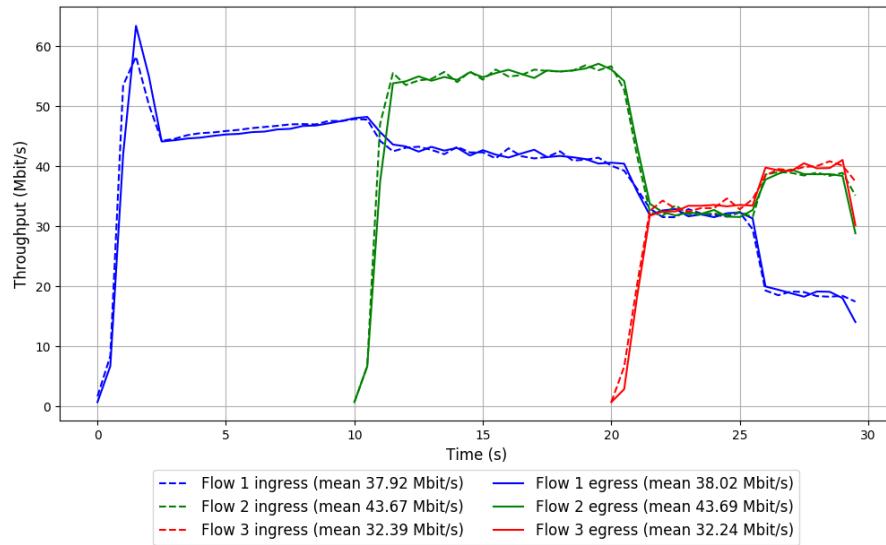


Run 10: Statistics of TCP Vegas

```
Start at: 2018-02-13 17:16:09
End at: 2018-02-13 17:16:39
Local clock offset: -8.417 ms
Remote clock offset: 1.8 ms

# Below is generated by plot.py at 2018-02-13 21:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 112.405 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 111.230 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 43.69 Mbit/s
95th percentile per-packet one-way delay: 111.476 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 114.104 ms
Loss rate: 2.31%
```

Run 10: Report of TCP Vegas — Data Link

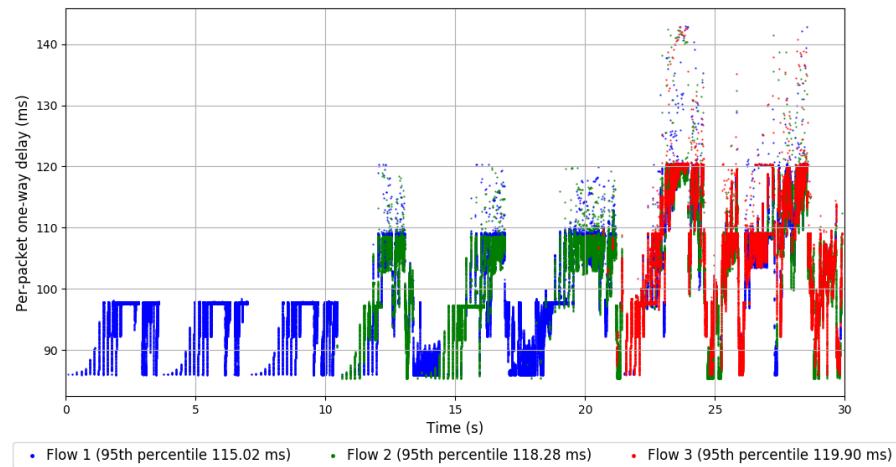
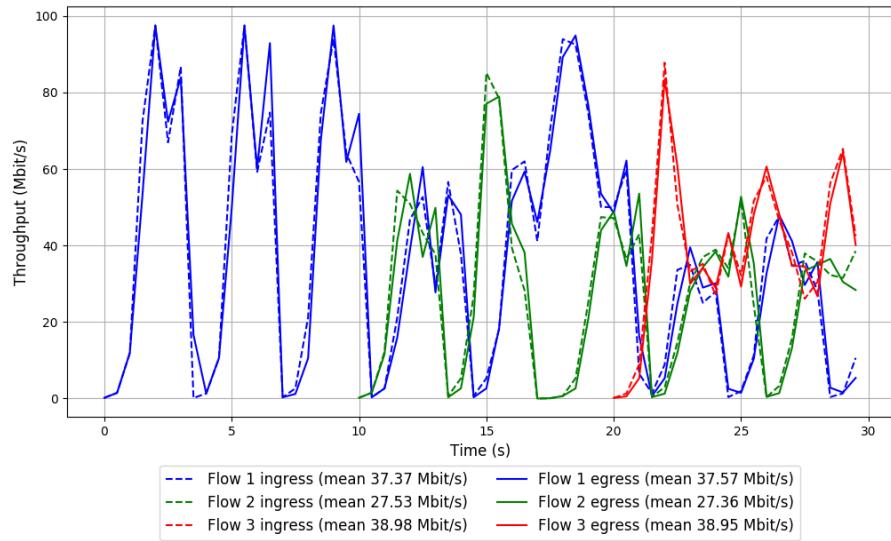


Run 1: Statistics of Verus

```
Start at: 2018-02-13 13:36:52
End at: 2018-02-13 13:37:22
Local clock offset: -3.521 ms
Remote clock offset: -4.346 ms

# Below is generated by plot.py at 2018-02-13 21:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.44 Mbit/s
95th percentile per-packet one-way delay: 118.037 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 37.57 Mbit/s
95th percentile per-packet one-way delay: 115.018 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 27.36 Mbit/s
95th percentile per-packet one-way delay: 118.281 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 119.899 ms
Loss rate: 2.11%
```

Run 1: Report of Verus — Data Link

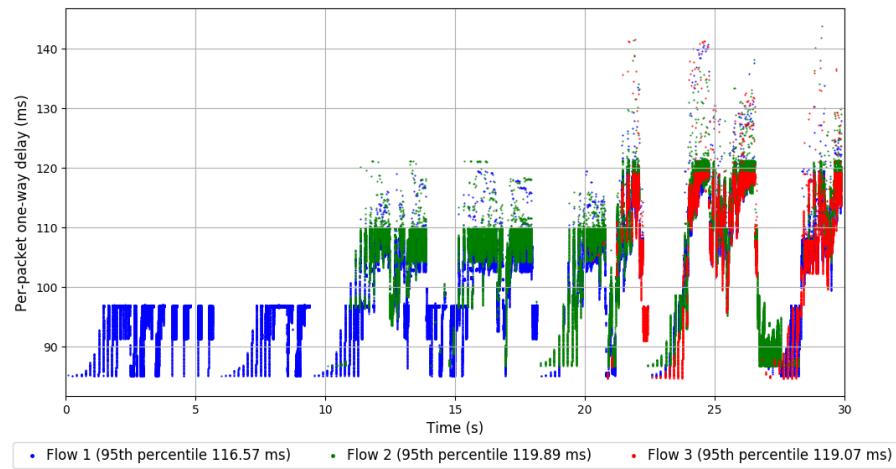
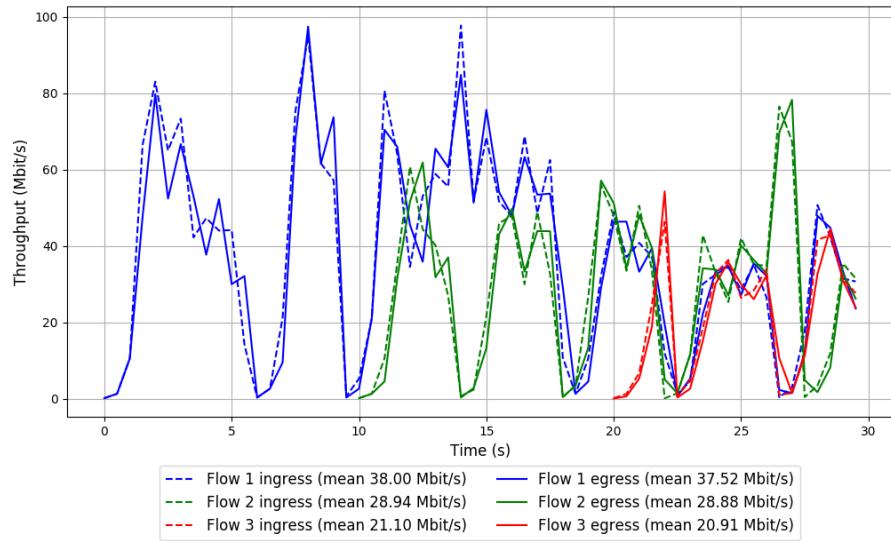


Run 2: Statistics of Verus

```
Start at: 2018-02-13 14:00:31
End at: 2018-02-13 14:01:01
Local clock offset: -3.607 ms
Remote clock offset: -4.072 ms

# Below is generated by plot.py at 2018-02-13 21:36:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 118.776 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 116.570 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 28.88 Mbit/s
95th percentile per-packet one-way delay: 119.895 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 20.91 Mbit/s
95th percentile per-packet one-way delay: 119.074 ms
Loss rate: 2.94%
```

Run 2: Report of Verus — Data Link

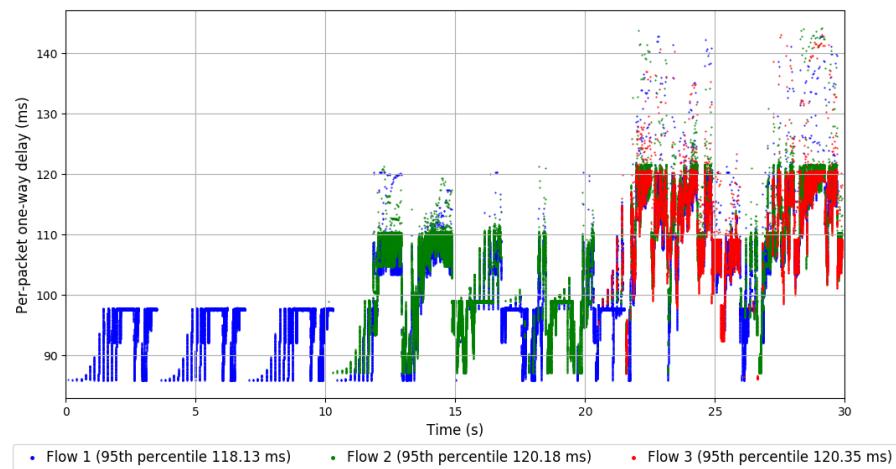
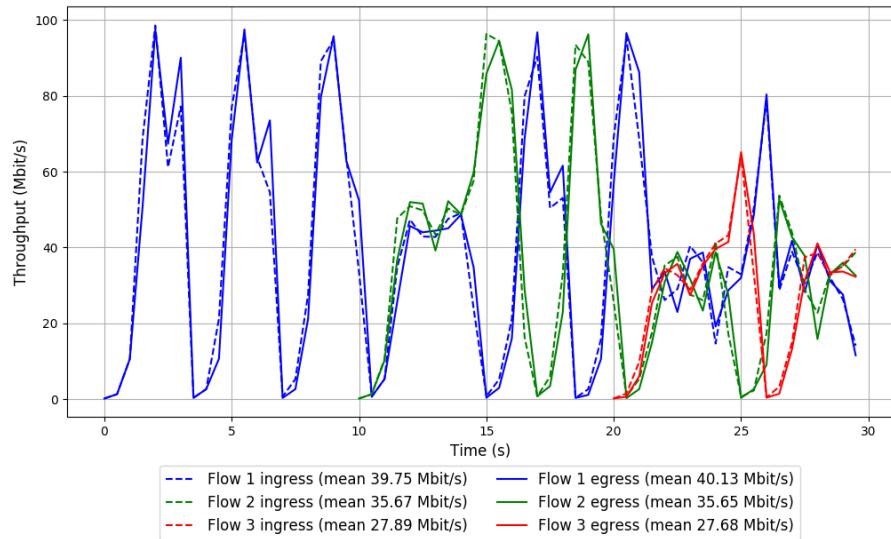


Run 3: Statistics of Verus

```
Start at: 2018-02-13 14:24:09
End at: 2018-02-13 14:24:39
Local clock offset: -3.612 ms
Remote clock offset: -5.03 ms

# Below is generated by plot.py at 2018-02-13 21:36:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 119.741 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 118.133 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 35.65 Mbit/s
95th percentile per-packet one-way delay: 120.176 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 27.68 Mbit/s
95th percentile per-packet one-way delay: 120.354 ms
Loss rate: 2.79%
```

Run 3: Report of Verus — Data Link

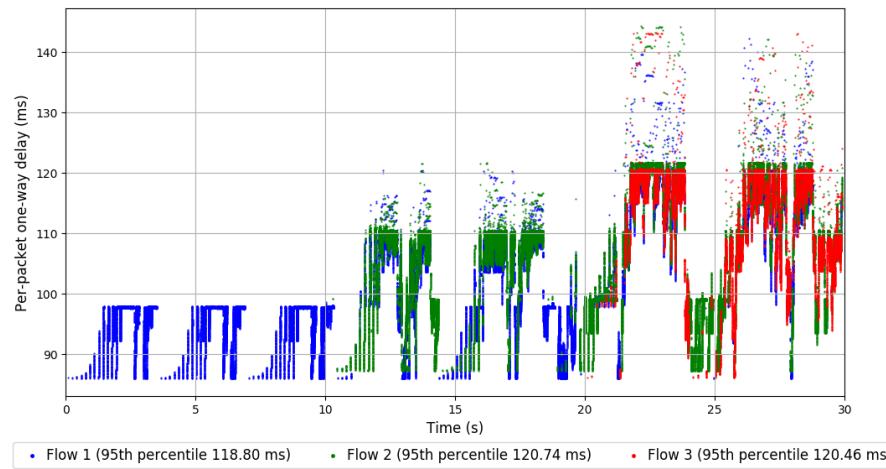
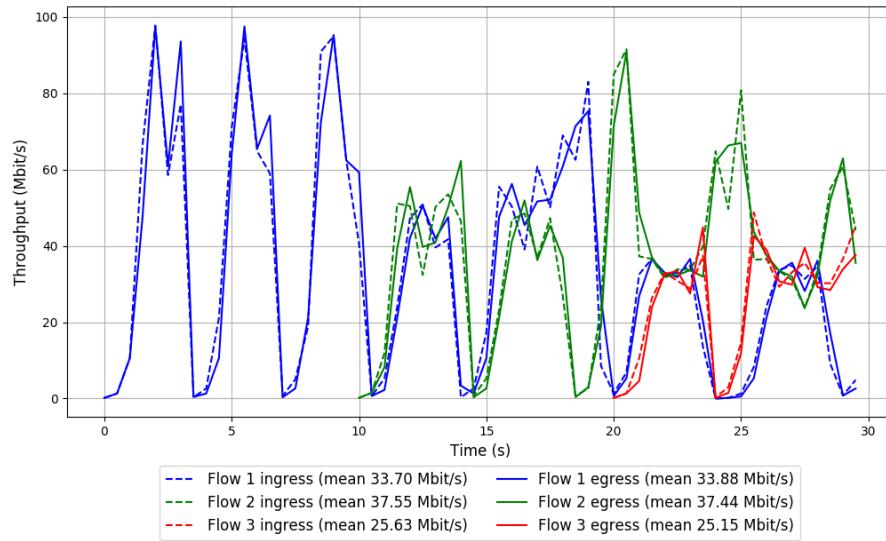


Run 4: Statistics of Verus

```
Start at: 2018-02-13 14:47:42
End at: 2018-02-13 14:48:12
Local clock offset: -3.638 ms
Remote clock offset: -5.084 ms

# Below is generated by plot.py at 2018-02-13 21:36:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.98 Mbit/s
95th percentile per-packet one-way delay: 120.195 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 118.804 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 120.738 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 120.460 ms
Loss rate: 3.79%
```

Run 4: Report of Verus — Data Link

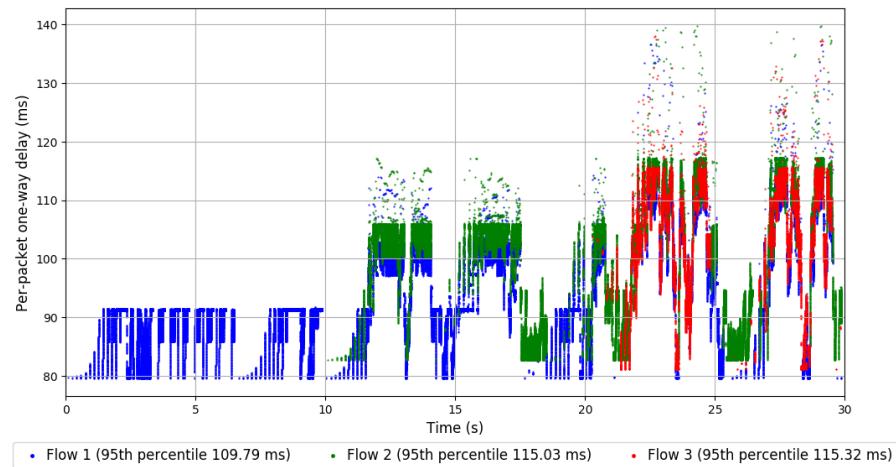
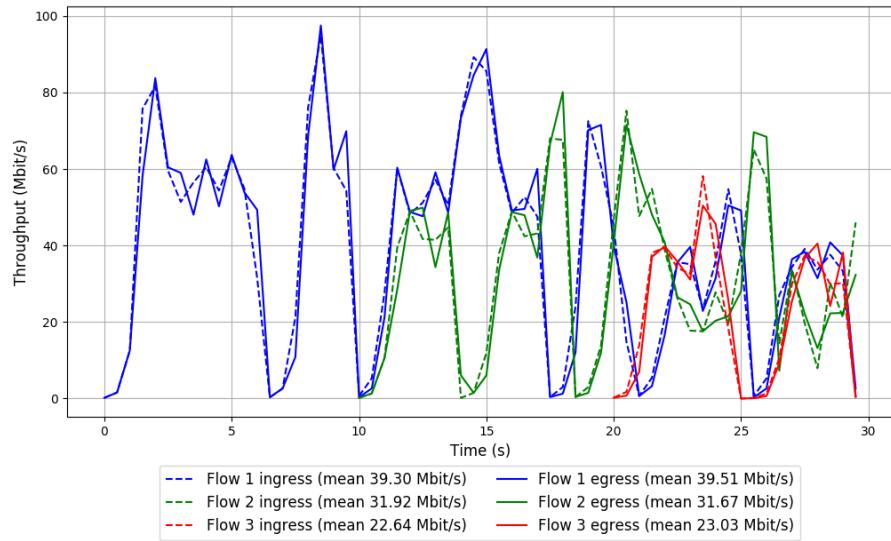


Run 5: Statistics of Verus

```
Start at: 2018-02-13 15:11:15
End at: 2018-02-13 15:11:45
Local clock offset: -5.683 ms
Remote clock offset: 0.167 ms

# Below is generated by plot.py at 2018-02-13 21:37:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.07 Mbit/s
95th percentile per-packet one-way delay: 113.453 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 39.51 Mbit/s
95th percentile per-packet one-way delay: 109.790 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 115.026 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 23.03 Mbit/s
95th percentile per-packet one-way delay: 115.319 ms
Loss rate: 0.05%
```

Run 5: Report of Verus — Data Link

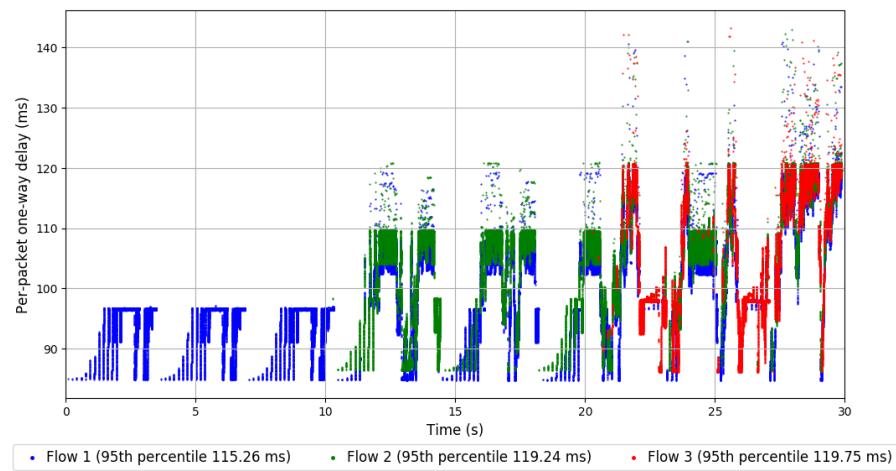
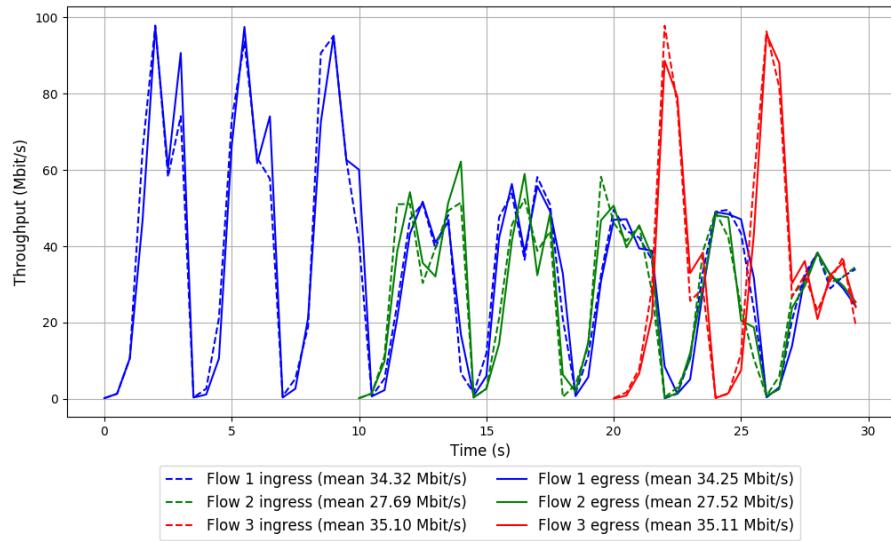


Run 6: Statistics of Verus

```
Start at: 2018-02-13 15:34:52
End at: 2018-02-13 15:35:22
Local clock offset: -6.599 ms
Remote clock offset: -3.729 ms

# Below is generated by plot.py at 2018-02-13 21:37:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.97 Mbit/s
95th percentile per-packet one-way delay: 118.014 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 115.260 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 119.236 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 35.11 Mbit/s
95th percentile per-packet one-way delay: 119.754 ms
Loss rate: 0.42%
```

Run 6: Report of Verus — Data Link

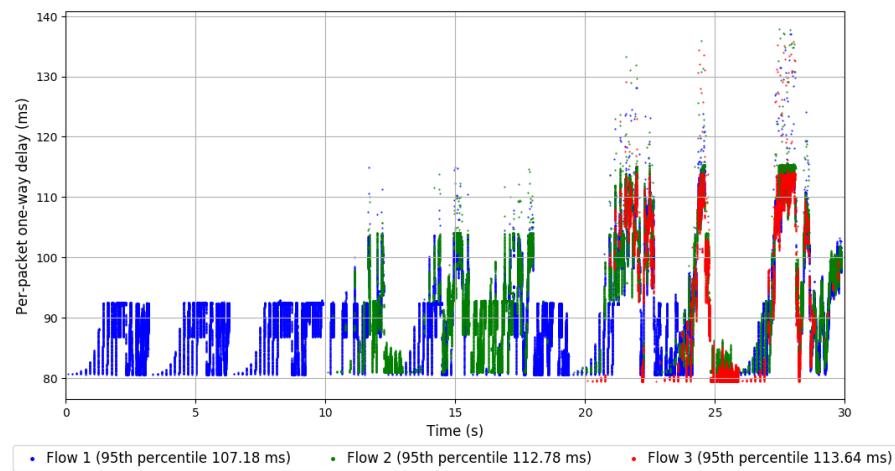
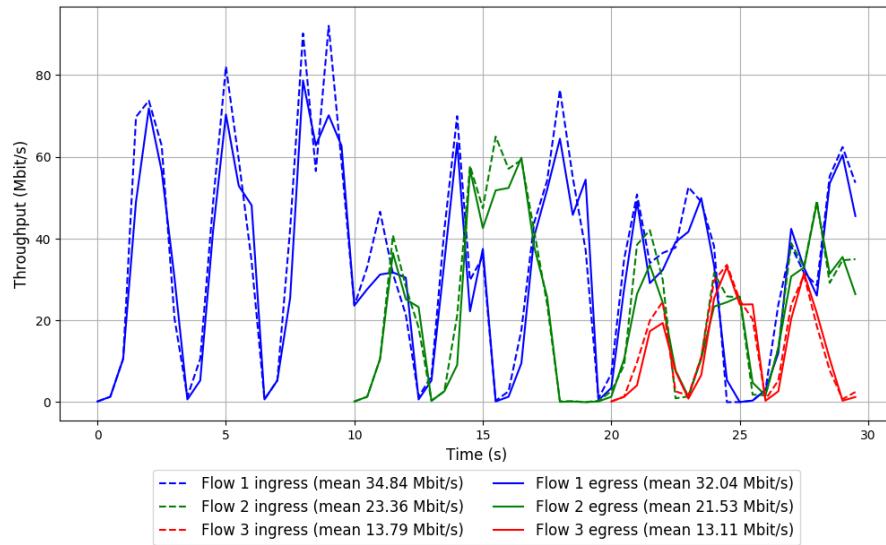


Run 7: Statistics of Verus

```
Start at: 2018-02-13 15:58:25
End at: 2018-02-13 15:58:55
Local clock offset: -3.716 ms
Remote clock offset: 0.463 ms

# Below is generated by plot.py at 2018-02-13 21:37:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.57 Mbit/s
95th percentile per-packet one-way delay: 110.866 ms
Loss rate: 8.43%
-- Flow 1:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 107.182 ms
Loss rate: 8.59%
-- Flow 2:
Average throughput: 21.53 Mbit/s
95th percentile per-packet one-way delay: 112.781 ms
Loss rate: 8.63%
-- Flow 3:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 113.645 ms
Loss rate: 6.53%
```

Run 7: Report of Verus — Data Link

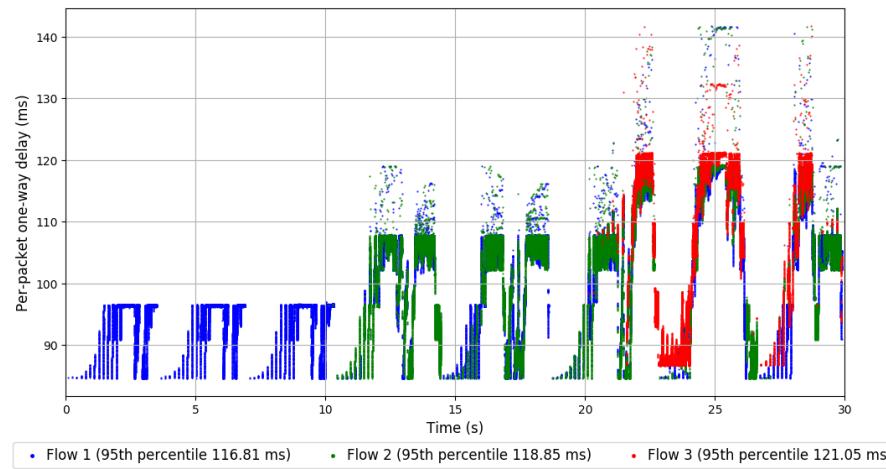
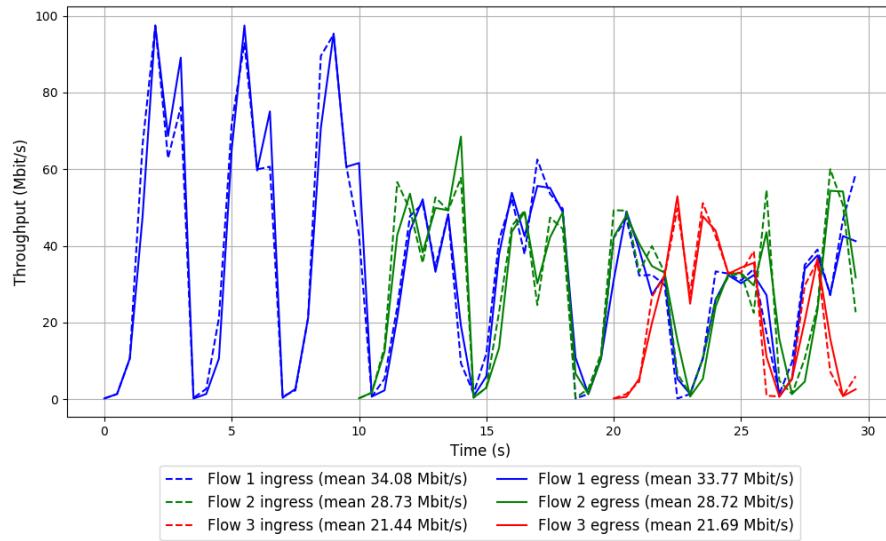


Run 8: Statistics of Verus

```
Start at: 2018-02-13 16:22:12
End at: 2018-02-13 16:22:42
Local clock offset: -6.031 ms
Remote clock offset: -3.587 ms

# Below is generated by plot.py at 2018-02-13 21:37:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 118.919 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 116.808 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 118.852 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.69 Mbit/s
95th percentile per-packet one-way delay: 121.052 ms
Loss rate: 0.80%
```

Run 8: Report of Verus — Data Link

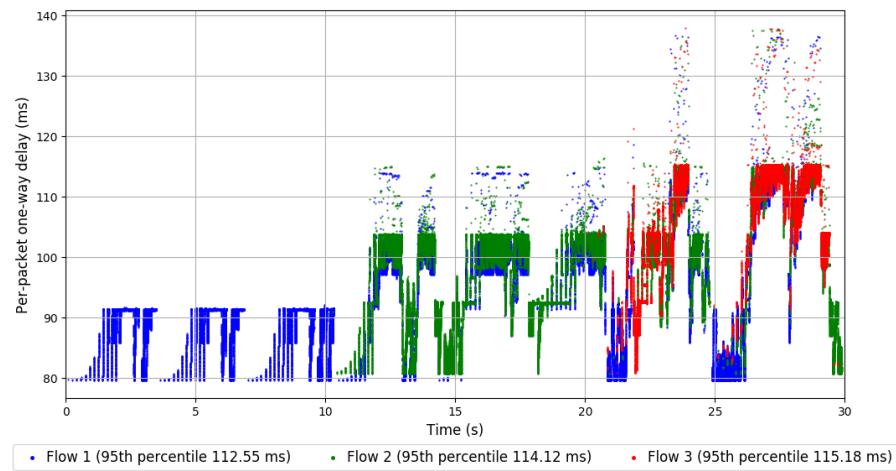
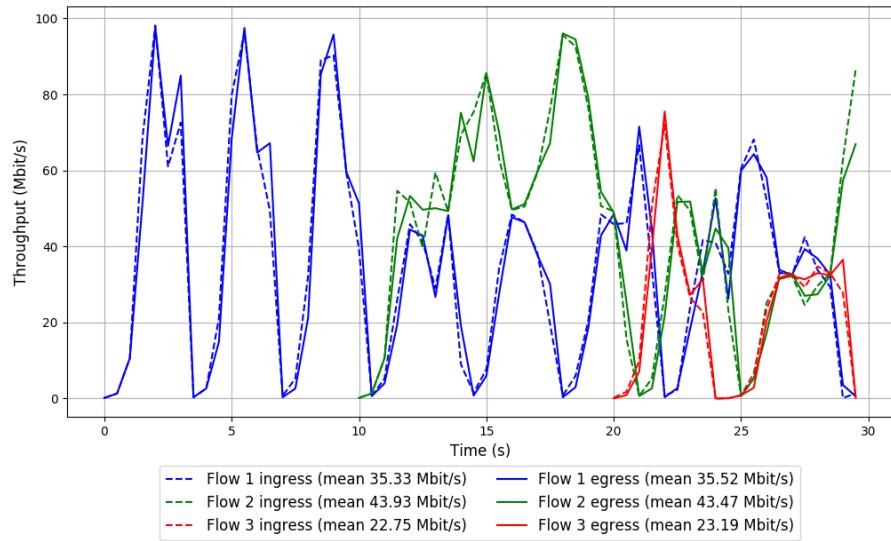


Run 9: Statistics of Verus

```
Start at: 2018-02-13 16:45:51
End at: 2018-02-13 16:46:21
Local clock offset: -7.194 ms
Remote clock offset: 2.013 ms

# Below is generated by plot.py at 2018-02-13 21:37:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.74 Mbit/s
95th percentile per-packet one-way delay: 113.872 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 35.52 Mbit/s
95th percentile per-packet one-way delay: 112.546 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 43.47 Mbit/s
95th percentile per-packet one-way delay: 114.125 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 23.19 Mbit/s
95th percentile per-packet one-way delay: 115.180 ms
Loss rate: 0.05%
```

Run 9: Report of Verus — Data Link

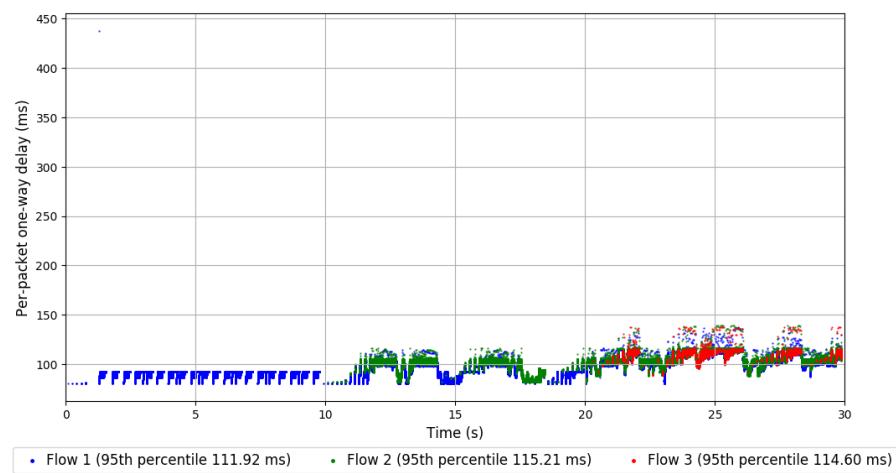
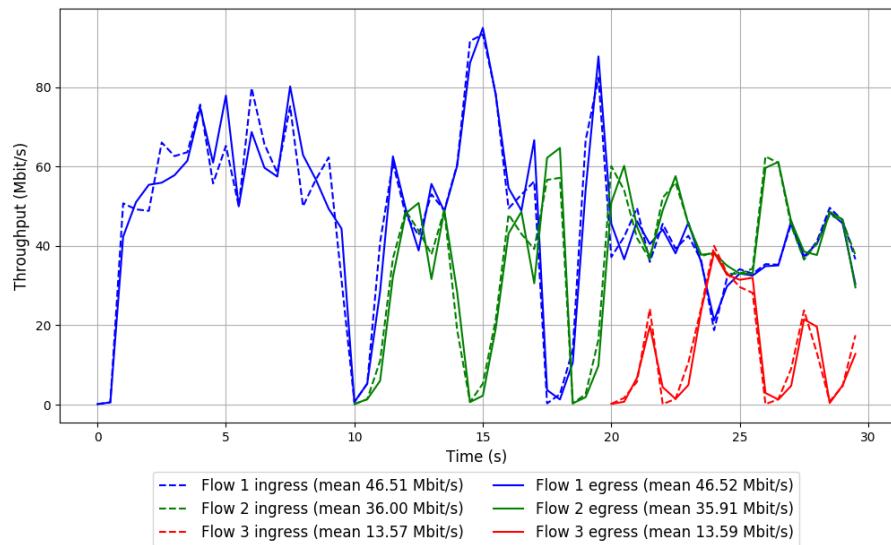


Run 10: Statistics of Verus

```
Start at: 2018-02-13 17:09:36
End at: 2018-02-13 17:10:06
Local clock offset: -8.193 ms
Remote clock offset: 1.134 ms

# Below is generated by plot.py at 2018-02-13 21:37:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.80 Mbit/s
95th percentile per-packet one-way delay: 114.333 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 46.52 Mbit/s
95th percentile per-packet one-way delay: 111.924 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 35.91 Mbit/s
95th percentile per-packet one-way delay: 115.209 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 13.59 Mbit/s
95th percentile per-packet one-way delay: 114.604 ms
Loss rate: 1.89%
```

Run 10: Report of Verus — Data Link

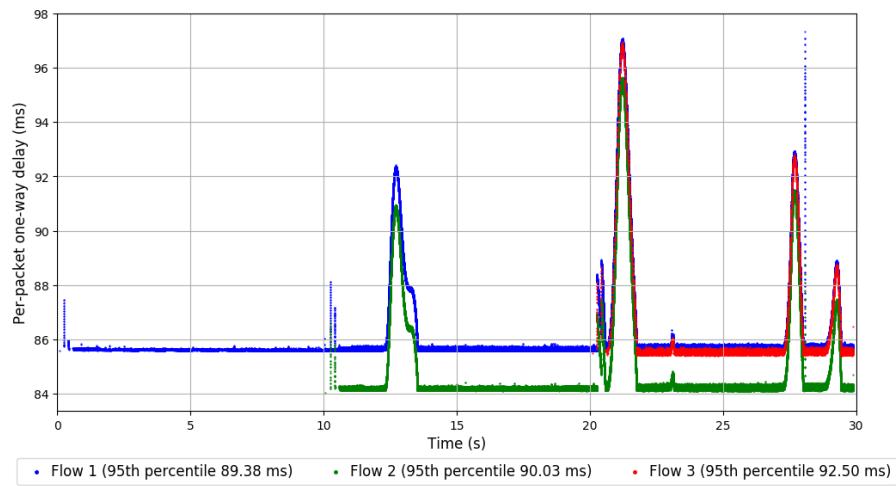
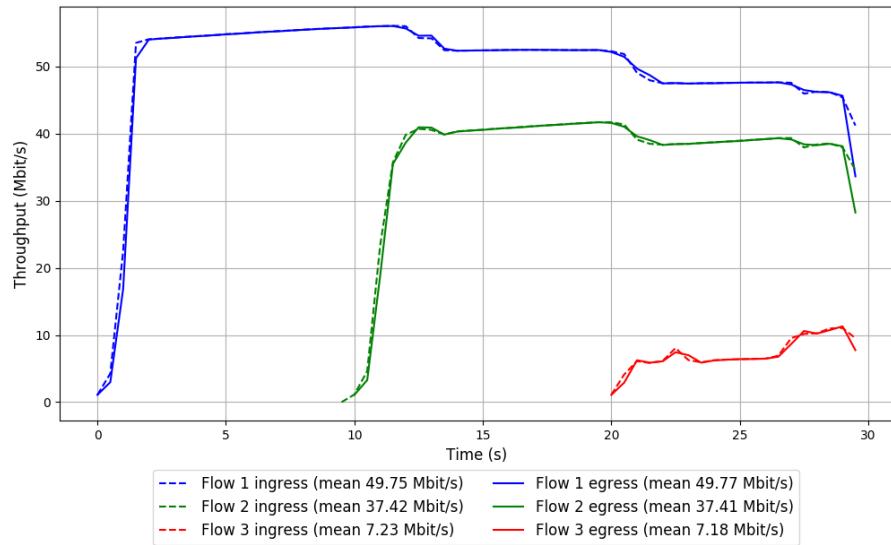


Run 1: Statistics of Copa

```
Start at: 2018-02-13 13:44:44
End at: 2018-02-13 13:45:14
Local clock offset: -3.483 ms
Remote clock offset: -4.478 ms

# Below is generated by plot.py at 2018-02-13 21:38:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.99 Mbit/s
95th percentile per-packet one-way delay: 89.835 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 49.77 Mbit/s
95th percentile per-packet one-way delay: 89.381 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 90.027 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 92.496 ms
Loss rate: 2.47%
```

Run 1: Report of Copa — Data Link

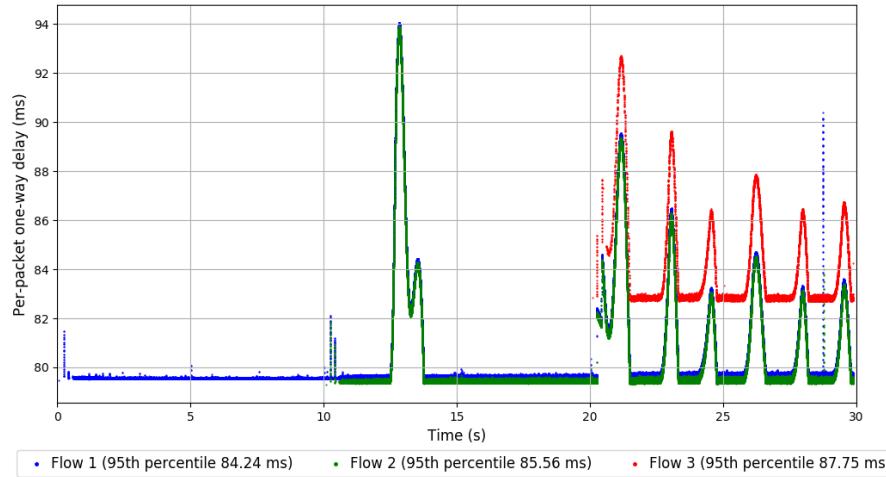
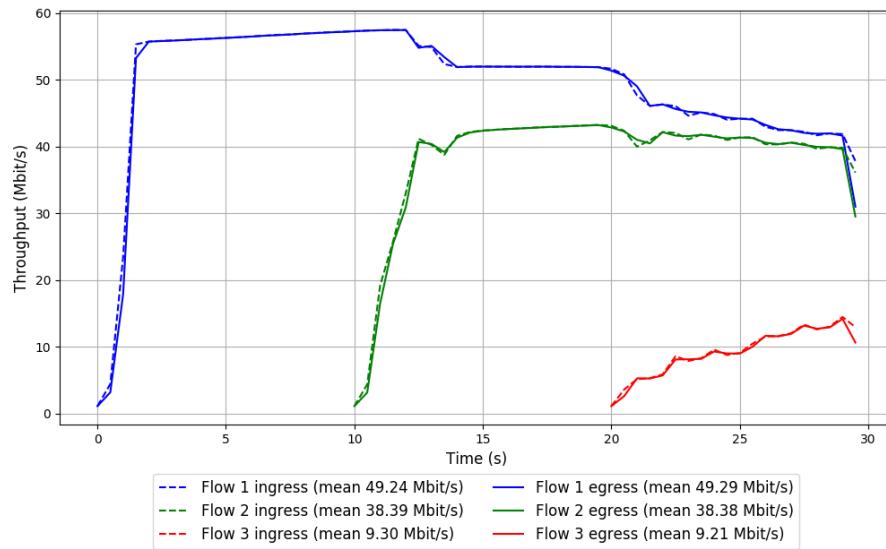


Run 2: Statistics of Copa

```
Start at: 2018-02-13 14:08:23
End at: 2018-02-13 14:08:53
Local clock offset: -3.66 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-02-13 21:39:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.80 Mbit/s
95th percentile per-packet one-way delay: 85.144 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 84.244 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 38.38 Mbit/s
95th percentile per-packet one-way delay: 85.563 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 9.21 Mbit/s
95th percentile per-packet one-way delay: 87.749 ms
Loss rate: 2.59%
```

Run 2: Report of Copa — Data Link

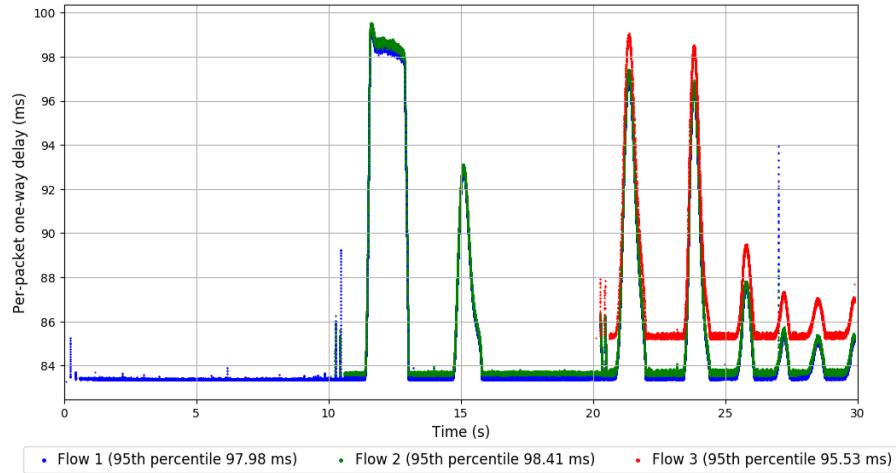
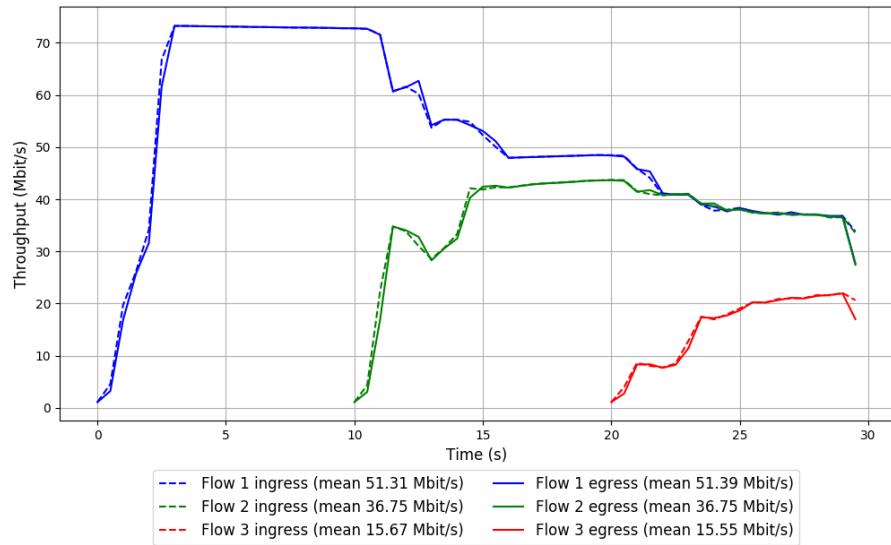


Run 3: Statistics of Copa

```
Start at: 2018-02-13 14:31:58
End at: 2018-02-13 14:32:28
Local clock offset: -3.697 ms
Remote clock offset: -4.248 ms

# Below is generated by plot.py at 2018-02-13 21:39:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.91 Mbit/s
95th percentile per-packet one-way delay: 98.057 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 51.39 Mbit/s
95th percentile per-packet one-way delay: 97.978 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 36.75 Mbit/s
95th percentile per-packet one-way delay: 98.410 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 95.525 ms
Loss rate: 2.39%
```

Run 3: Report of Copa — Data Link

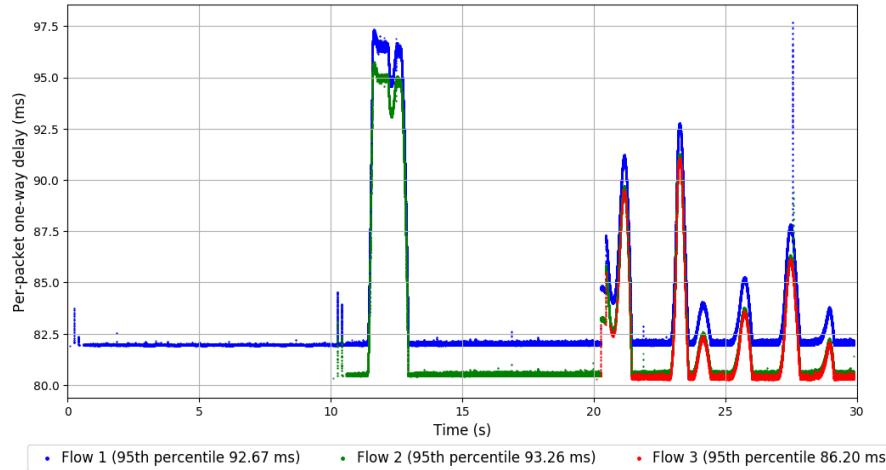
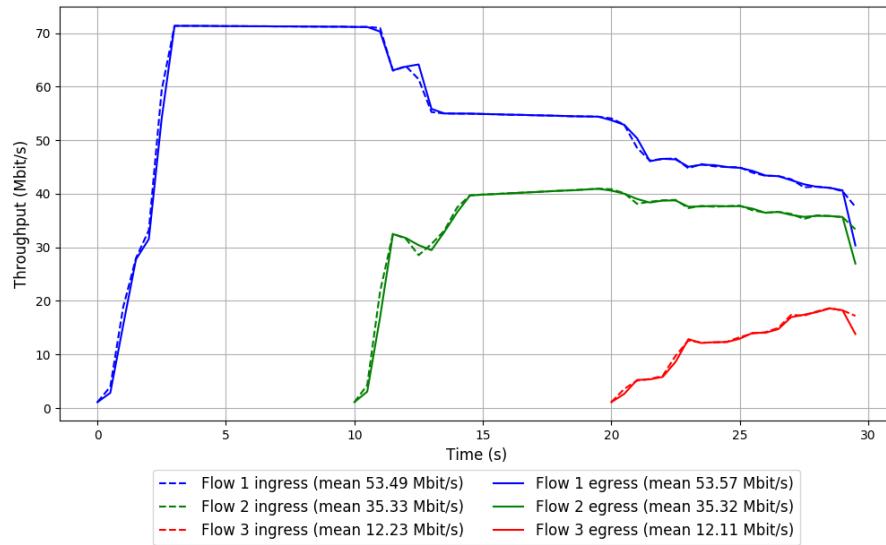


Run 4: Statistics of Copa

```
Start at: 2018-02-13 14:55:30
End at: 2018-02-13 14:56:00
Local clock offset: -3.62 ms
Remote clock offset: 0.727 ms

# Below is generated by plot.py at 2018-02-13 21:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.01 Mbit/s
95th percentile per-packet one-way delay: 92.472 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 53.57 Mbit/s
95th percentile per-packet one-way delay: 92.668 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 35.32 Mbit/s
95th percentile per-packet one-way delay: 93.256 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 86.199 ms
Loss rate: 2.61%
```

Run 4: Report of Copa — Data Link

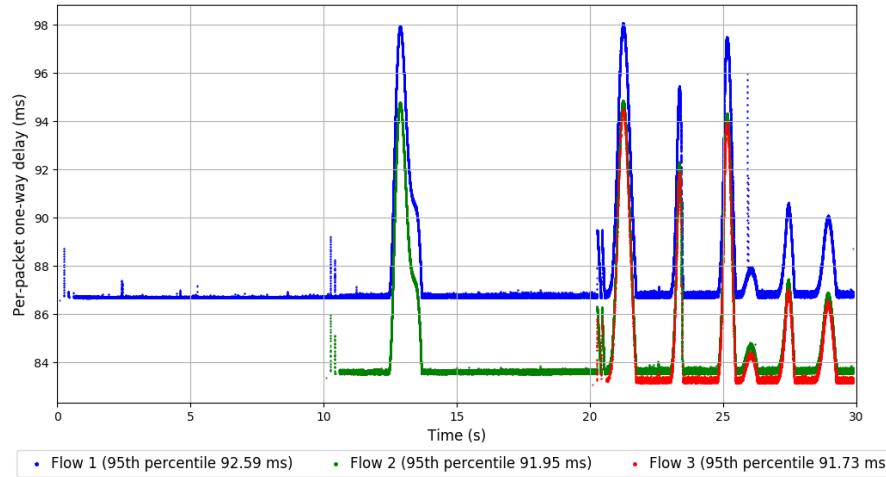
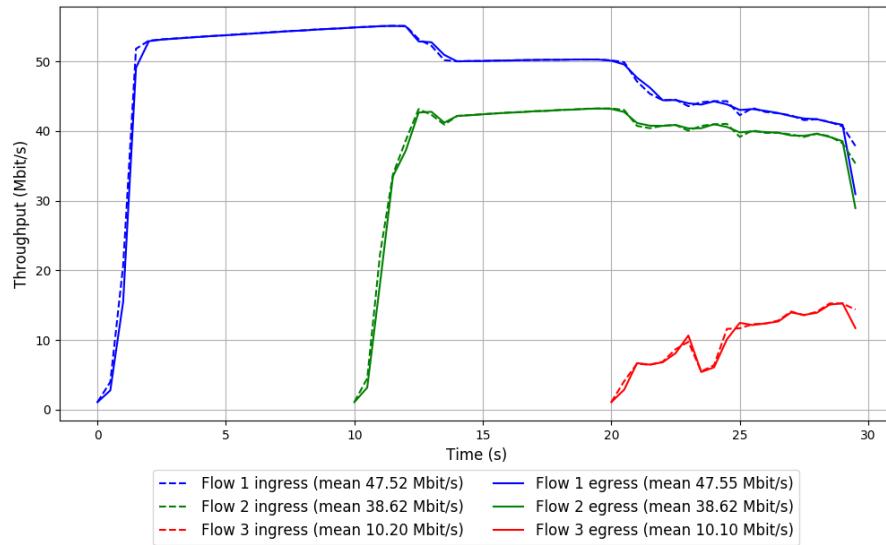


Run 5: Statistics of Copa

```
Start at: 2018-02-13 15:19:05
End at: 2018-02-13 15:19:35
Local clock offset: -6.338 ms
Remote clock offset: -3.795 ms

# Below is generated by plot.py at 2018-02-13 21:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.52 Mbit/s
95th percentile per-packet one-way delay: 92.193 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 92.595 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 91.953 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 10.10 Mbit/s
95th percentile per-packet one-way delay: 91.734 ms
Loss rate: 2.58%
```

Run 5: Report of Copa — Data Link

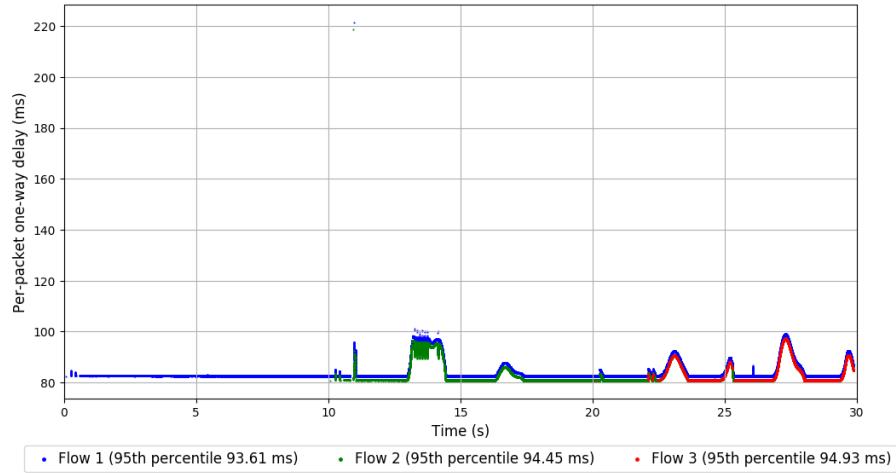
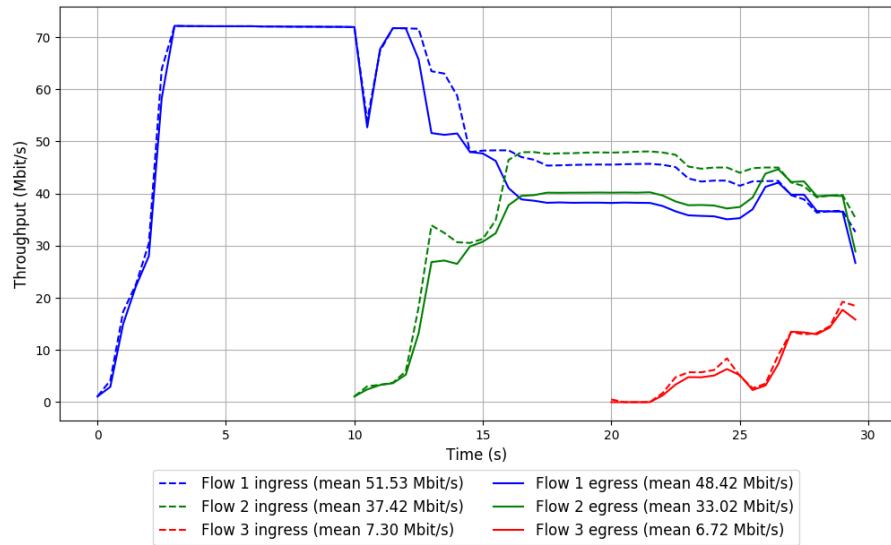


Run 6: Statistics of Copa

```
Start at: 2018-02-13 15:42:40
End at: 2018-02-13 15:43:10
Local clock offset: -4.832 ms
Remote clock offset: 0.341 ms

# Below is generated by plot.py at 2018-02-13 21:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.56 Mbit/s
95th percentile per-packet one-way delay: 94.182 ms
Loss rate: 8.55%
-- Flow 1:
Average throughput: 48.42 Mbit/s
95th percentile per-packet one-way delay: 93.607 ms
Loss rate: 6.58%
-- Flow 2:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 94.453 ms
Loss rate: 12.51%
-- Flow 3:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 94.933 ms
Loss rate: 9.55%
```

Run 6: Report of Copa — Data Link

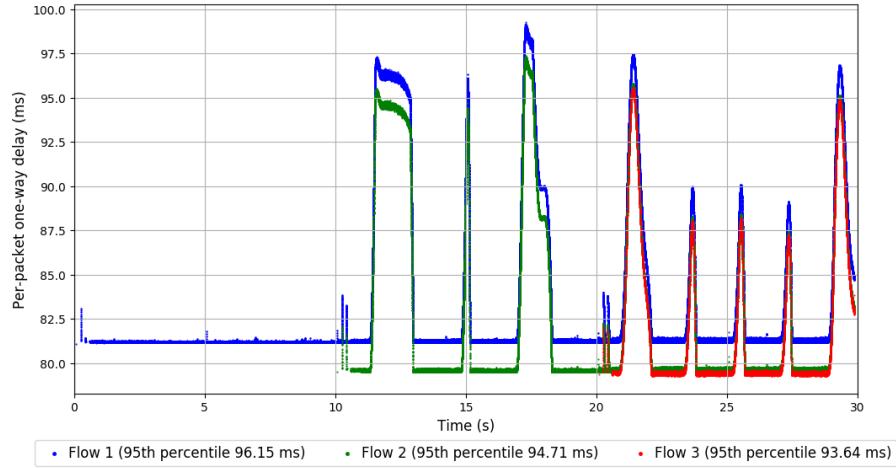
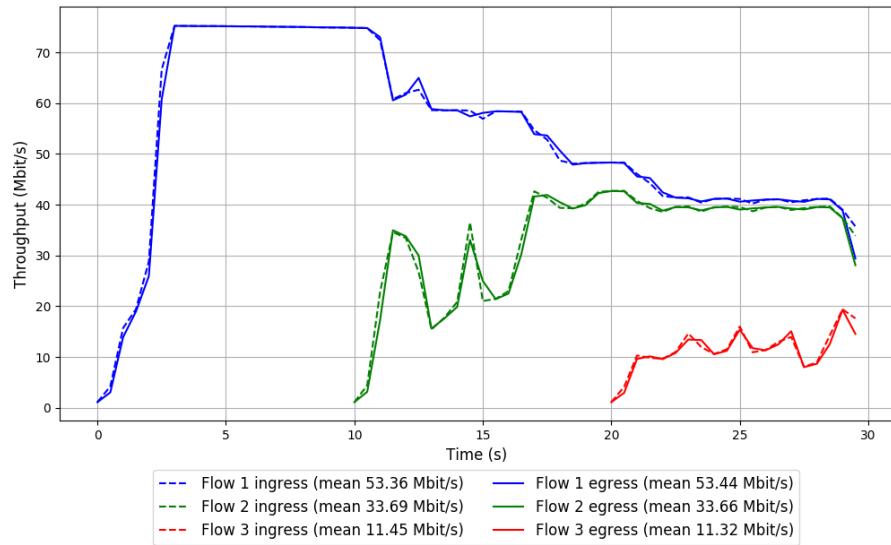


Run 7: Statistics of Copa

```
Start at: 2018-02-13 16:06:14
End at: 2018-02-13 16:06:44
Local clock offset: -3.602 ms
Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2018-02-13 21:39:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.52 Mbit/s
95th percentile per-packet one-way delay: 95.793 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 53.44 Mbit/s
95th percentile per-packet one-way delay: 96.151 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 33.66 Mbit/s
95th percentile per-packet one-way delay: 94.711 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 11.32 Mbit/s
95th percentile per-packet one-way delay: 93.645 ms
Loss rate: 2.82%
```

Run 7: Report of Copa — Data Link

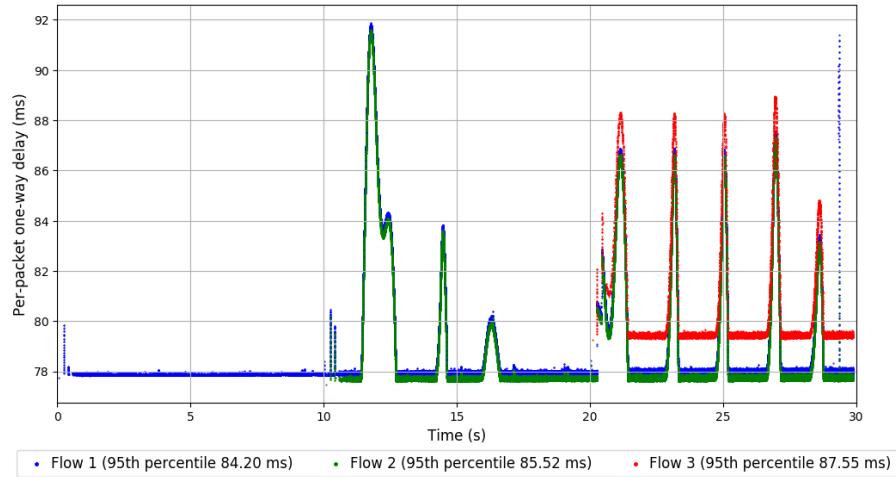
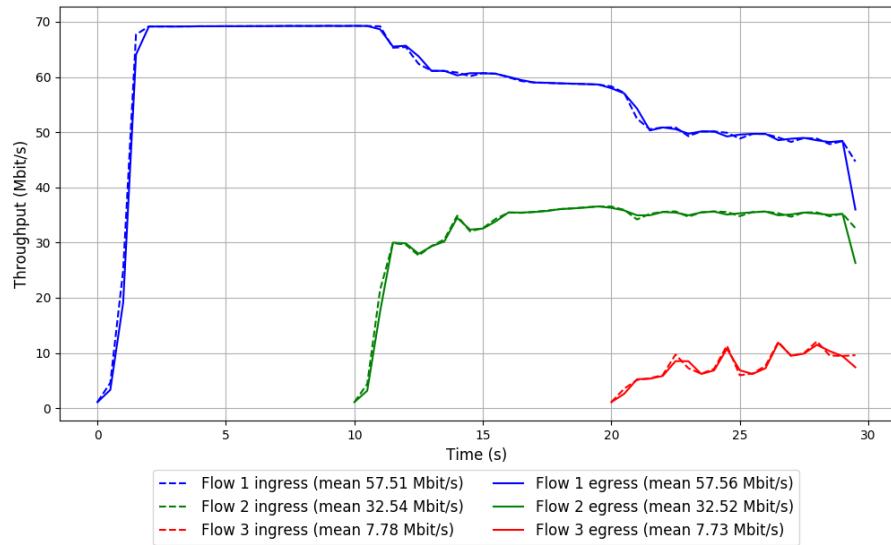


Run 8: Statistics of Copa

```
Start at: 2018-02-13 16:30:04
End at: 2018-02-13 16:30:34
Local clock offset: -6.408 ms
Remote clock offset: 2.056 ms

# Below is generated by plot.py at 2018-02-13 21:39:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.70 Mbit/s
95th percentile per-packet one-way delay: 84.738 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 57.56 Mbit/s
95th percentile per-packet one-way delay: 84.202 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 85.524 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 87.554 ms
Loss rate: 2.39%
```

Run 8: Report of Copa — Data Link

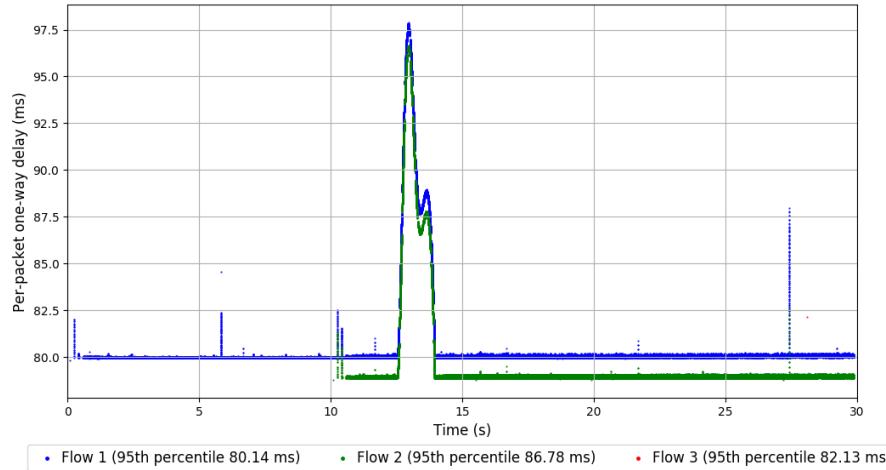
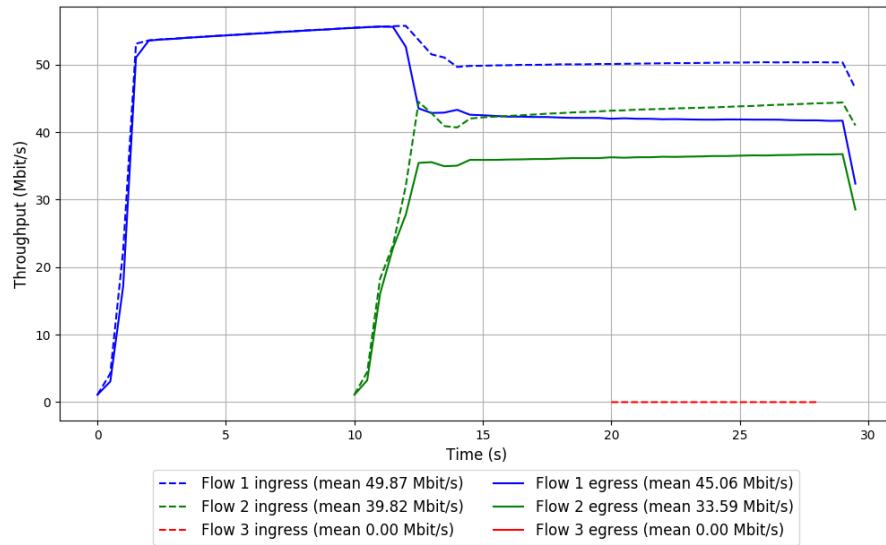


Run 9: Statistics of Copa

```
Start at: 2018-02-13 16:53:39
End at: 2018-02-13 16:54:09
Local clock offset: -7.571 ms
Remote clock offset: 1.03 ms

# Below is generated by plot.py at 2018-02-13 21:40:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.37 Mbit/s
95th percentile per-packet one-way delay: 82.745 ms
Loss rate: 12.31%
-- Flow 1:
Average throughput: 45.06 Mbit/s
95th percentile per-packet one-way delay: 80.142 ms
Loss rate: 10.17%
-- Flow 2:
Average throughput: 33.59 Mbit/s
95th percentile per-packet one-way delay: 86.783 ms
Loss rate: 16.33%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 82.134 ms
Loss rate: 80.00%
```

Run 9: Report of Copa — Data Link

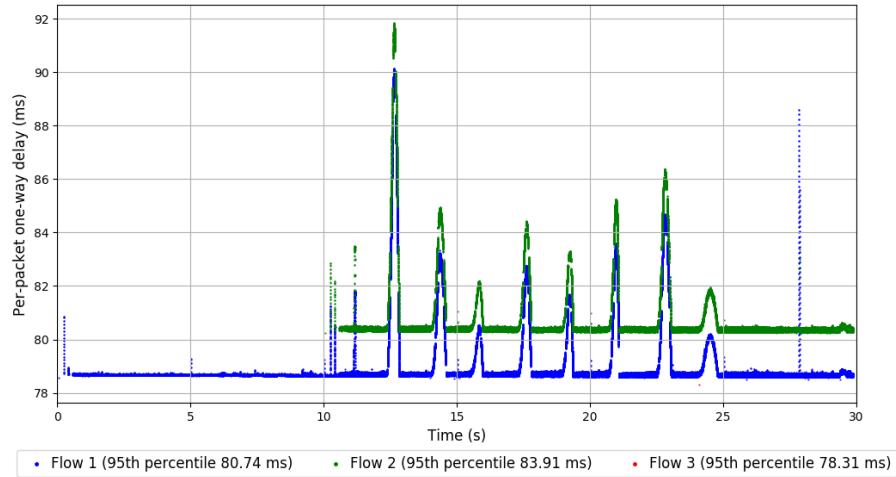
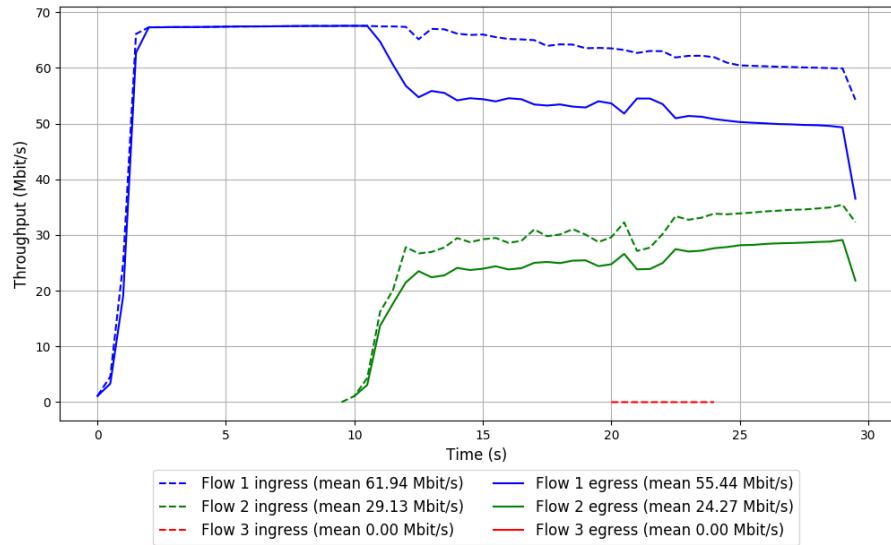


Run 10: Statistics of Copa

```
Start at: 2018-02-13 17:17:27
End at: 2018-02-13 17:17:57
Local clock offset: -8.177 ms
Remote clock offset: 0.913 ms

# Below is generated by plot.py at 2018-02-13 21:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.57 Mbit/s
95th percentile per-packet one-way delay: 81.849 ms
Loss rate: 12.53%
-- Flow 1:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 80.738 ms
Loss rate: 11.00%
-- Flow 2:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 83.912 ms
Loss rate: 17.41%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 78.315 ms
Loss rate: 66.67%
```

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-02-13 13:40:46
End at: 2018-02-13 13:41:16
Local clock offset: -3.577 ms
Remote clock offset: 1.258 ms

Run 1: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of FillP

Start at: 2018-02-13 14:04:25
End at: 2018-02-13 14:04:55
Local clock offset: -3.64 ms
Remote clock offset: -4.065 ms

Run 2: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of FillP

Start at: 2018-02-13 14:28:03
End at: 2018-02-13 14:28:33
Local clock offset: -3.607 ms
Remote clock offset: -4.963 ms

Run 3: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of FillP

Start at: 2018-02-13 14:51:35
End at: 2018-02-13 14:52:05
Local clock offset: -3.715 ms
Remote clock offset: -4.215 ms

Run 4: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of FillP

Start at: 2018-02-13 15:15:09
End at: 2018-02-13 15:15:39
Local clock offset: -6.012 ms
Remote clock offset: -4.594 ms

Run 5: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP

Start at: 2018-02-13 15:38:46
End at: 2018-02-13 15:39:16
Local clock offset: -5.492 ms
Remote clock offset: -4.588 ms

Run 6: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP

Start at: 2018-02-13 16:02:17
End at: 2018-02-13 16:02:47
Local clock offset: -3.619 ms
Remote clock offset: 2.086 ms

Run 7: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of FillP

Start at: 2018-02-13 16:26:06
End at: 2018-02-13 16:26:36
Local clock offset: -6.217 ms
Remote clock offset: -3.568 ms

Run 8: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of FillP

Start at: 2018-02-13 16:49:45
End at: 2018-02-13 16:50:15
Local clock offset: -7.388 ms
Remote clock offset: 1.122 ms

Run 9: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP

Start at: 2018-02-13 17:13:31
End at: 2018-02-13 17:14:01
Local clock offset: -8.398 ms
Remote clock offset: -3.735 ms

Run 10: Report of FillP — Data Link

Figure is missing

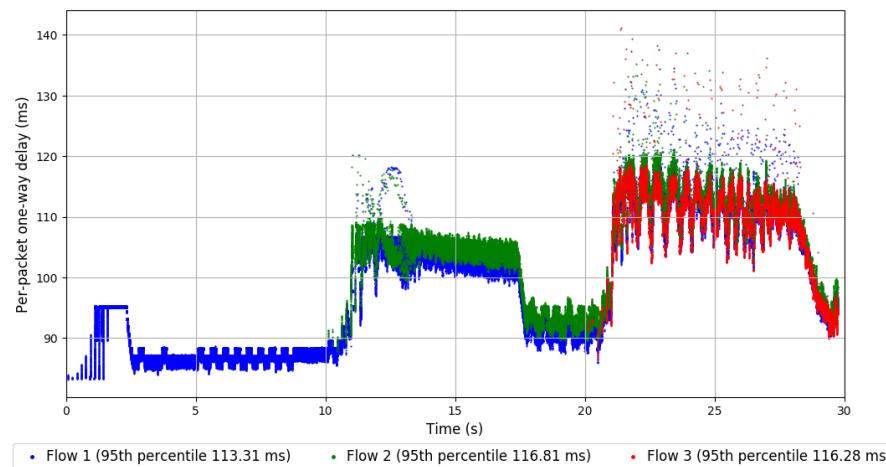
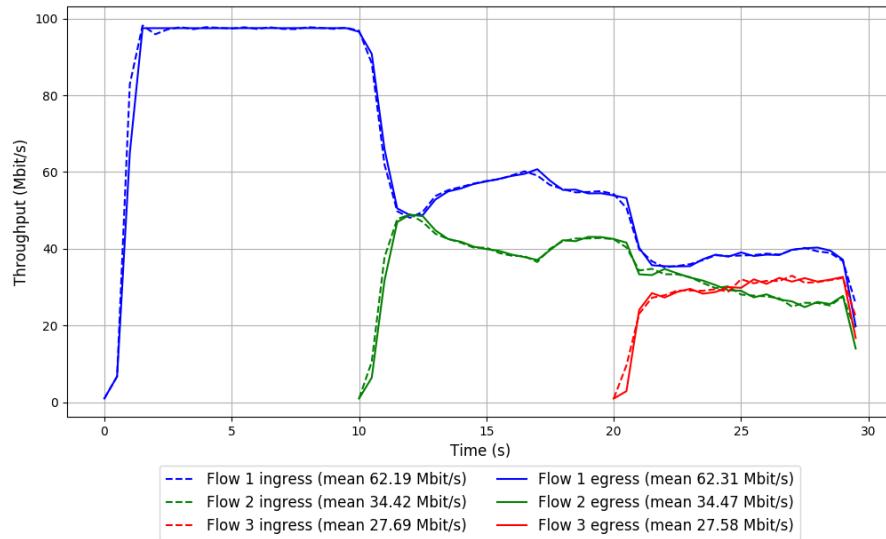
Figure is missing

Run 1: Statistics of Indigo-1-32

```
Start at: 2018-02-13 13:35:31
End at: 2018-02-13 13:36:01
Local clock offset: -3.553 ms
Remote clock offset: -3.65 ms

# Below is generated by plot.py at 2018-02-13 21:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 115.094 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 62.31 Mbit/s
95th percentile per-packet one-way delay: 113.307 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 116.812 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 116.276 ms
Loss rate: 2.19%
```

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

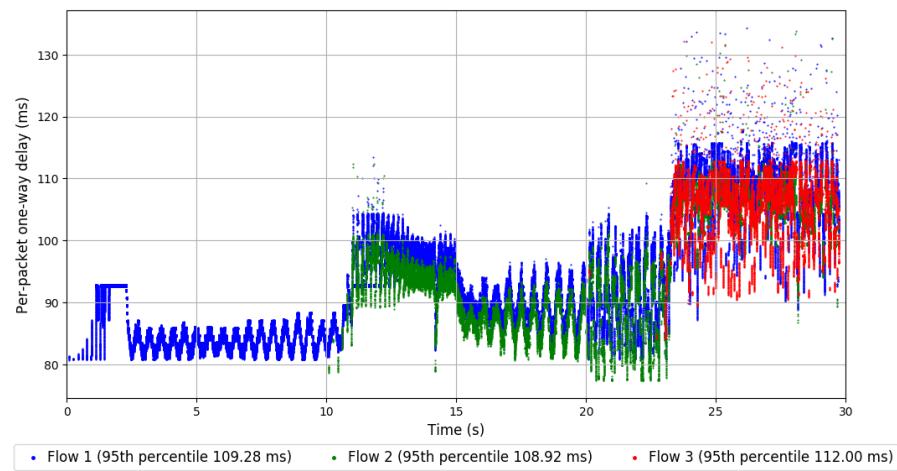
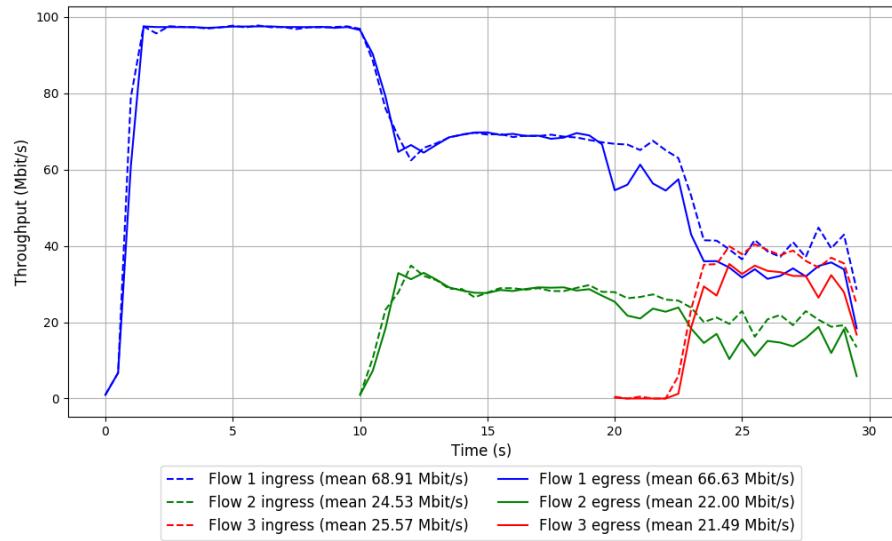


Run 2: Statistics of Indigo-1-32

```
Start at: 2018-02-13 13:59:10
End at: 2018-02-13 13:59:40
Local clock offset: -3.609 ms
Remote clock offset: 1.698 ms

# Below is generated by plot.py at 2018-02-13 21:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 110.059 ms
Loss rate: 6.38%
-- Flow 1:
Average throughput: 66.63 Mbit/s
95th percentile per-packet one-way delay: 109.283 ms
Loss rate: 3.90%
-- Flow 2:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 108.925 ms
Loss rate: 11.09%
-- Flow 3:
Average throughput: 21.49 Mbit/s
95th percentile per-packet one-way delay: 111.999 ms
Loss rate: 17.56%
```

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

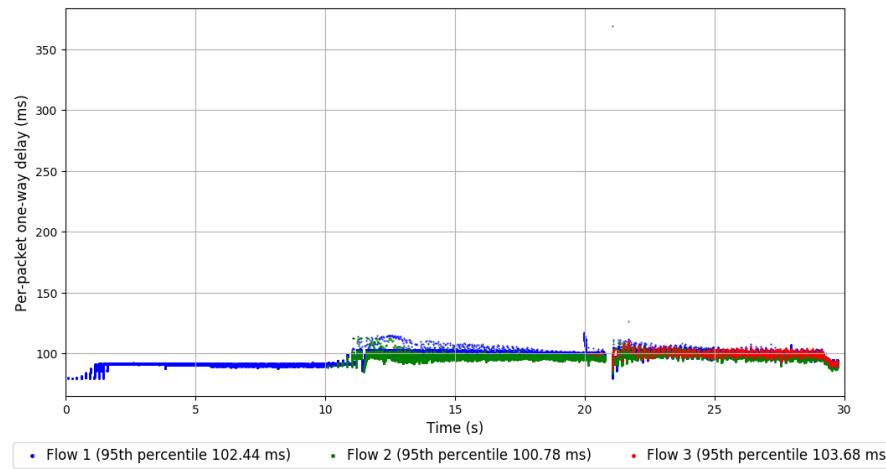
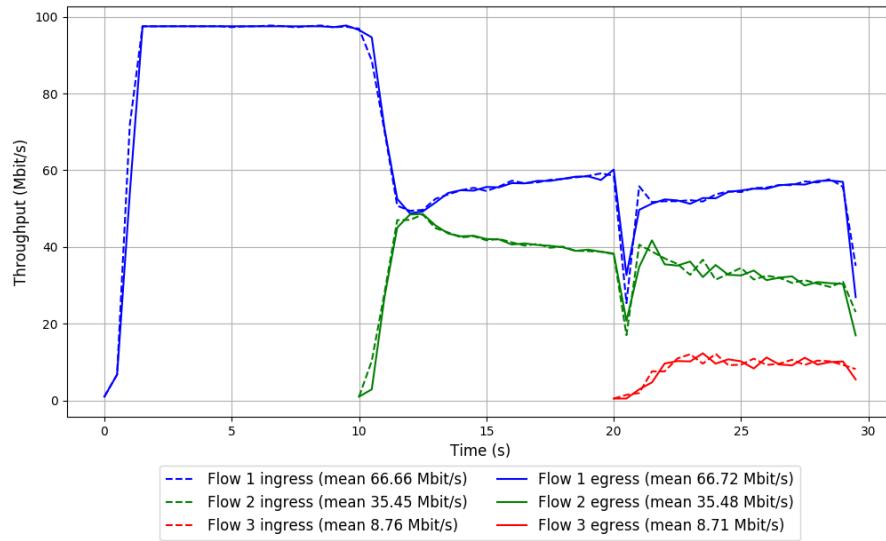


Run 3: Statistics of Indigo-1-32

```
Start at: 2018-02-13 14:22:49
End at: 2018-02-13 14:23:19
Local clock offset: -3.538 ms
Remote clock offset: 1.619 ms

# Below is generated by plot.py at 2018-02-13 21:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.00 Mbit/s
95th percentile per-packet one-way delay: 102.211 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 66.72 Mbit/s
95th percentile per-packet one-way delay: 102.441 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 35.48 Mbit/s
95th percentile per-packet one-way delay: 100.783 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 103.678 ms
Loss rate: 2.55%
```

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

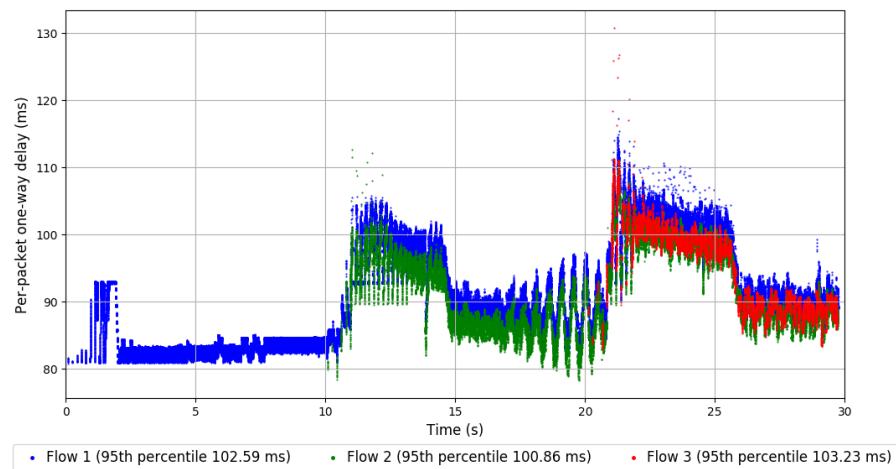
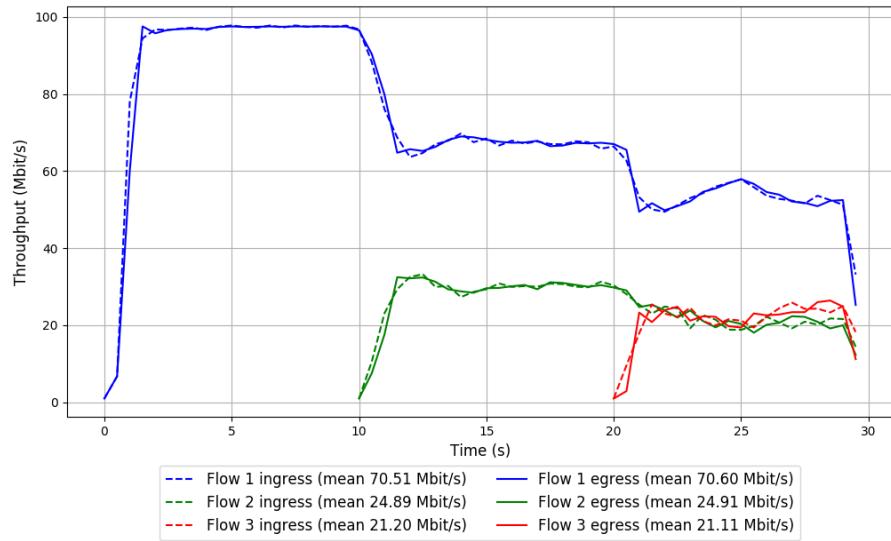


Run 4: Statistics of Indigo-1-32

```
Start at: 2018-02-13 14:46:21
End at: 2018-02-13 14:46:51
Local clock offset: -3.659 ms
Remote clock offset: 1.443 ms

# Below is generated by plot.py at 2018-02-13 21:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 102.372 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 70.60 Mbit/s
95th percentile per-packet one-way delay: 102.593 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 100.861 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 21.11 Mbit/s
95th percentile per-packet one-way delay: 103.231 ms
Loss rate: 2.20%
```

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

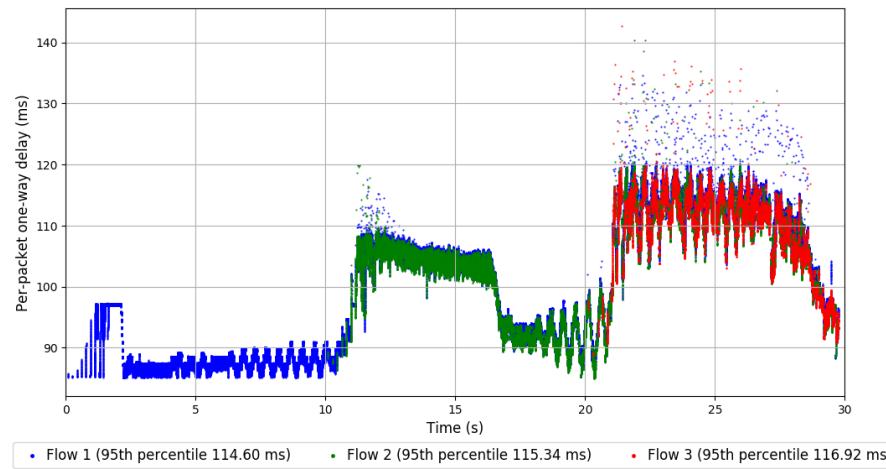
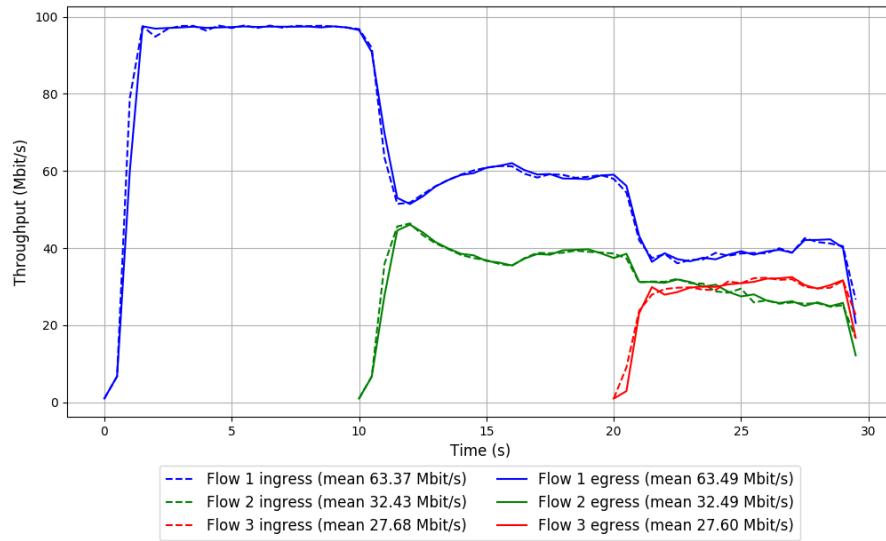


Run 5: Statistics of Indigo-1-32

```
Start at: 2018-02-13 15:09:54
End at: 2018-02-13 15:10:24
Local clock offset: -5.485 ms
Remote clock offset: -3.854 ms

# Below is generated by plot.py at 2018-02-13 21:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.96 Mbit/s
95th percentile per-packet one-way delay: 115.378 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 114.600 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 115.339 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 27.60 Mbit/s
95th percentile per-packet one-way delay: 116.917 ms
Loss rate: 2.14%
```

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

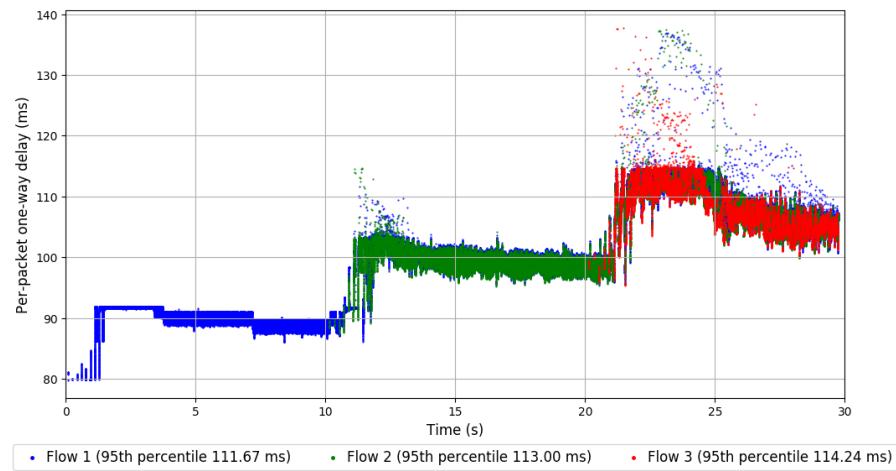
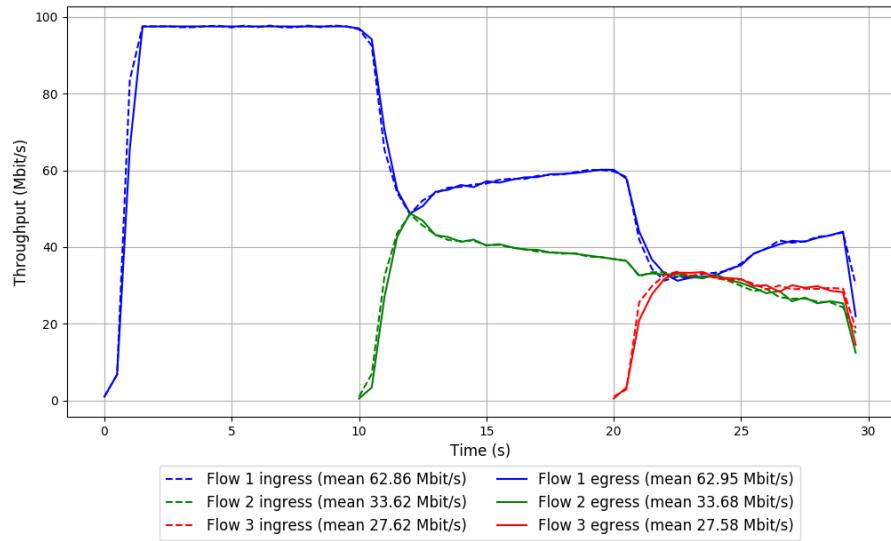


Run 6: Statistics of Indigo-1-32

```
Start at: 2018-02-13 15:33:31
End at: 2018-02-13 15:34:01
Local clock offset: -7.074 ms
Remote clock offset: 1.083 ms

# Below is generated by plot.py at 2018-02-13 21:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 112.843 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 62.95 Mbit/s
95th percentile per-packet one-way delay: 111.667 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 33.68 Mbit/s
95th percentile per-packet one-way delay: 112.998 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 114.236 ms
Loss rate: 2.07%
```

Run 6: Report of Indigo-1-32 — Data Link

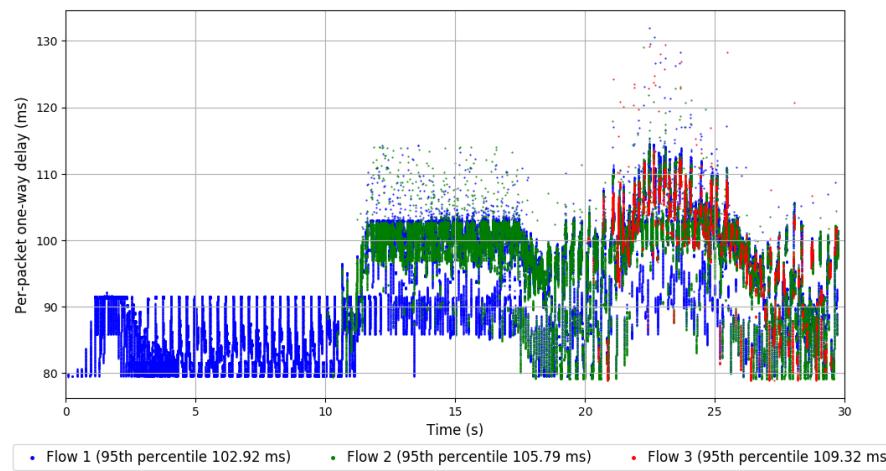
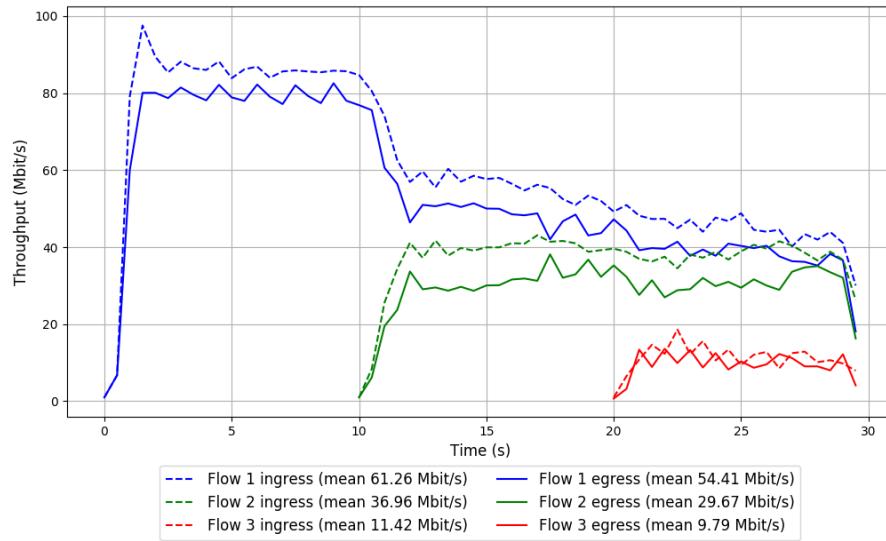


Run 7: Statistics of Indigo-1-32

```
Start at: 2018-02-13 15:57:04
End at: 2018-02-13 15:57:34
Local clock offset: -3.758 ms
Remote clock offset: 2.088 ms

# Below is generated by plot.py at 2018-02-13 21:41:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.19 Mbit/s
95th percentile per-packet one-way delay: 104.506 ms
Loss rate: 14.27%
-- Flow 1:
Average throughput: 54.41 Mbit/s
95th percentile per-packet one-way delay: 102.918 ms
Loss rate: 11.70%
-- Flow 2:
Average throughput: 29.67 Mbit/s
95th percentile per-packet one-way delay: 105.787 ms
Loss rate: 20.43%
-- Flow 3:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 109.316 ms
Loss rate: 15.98%
```

Run 7: Report of Indigo-1-32 — Data Link

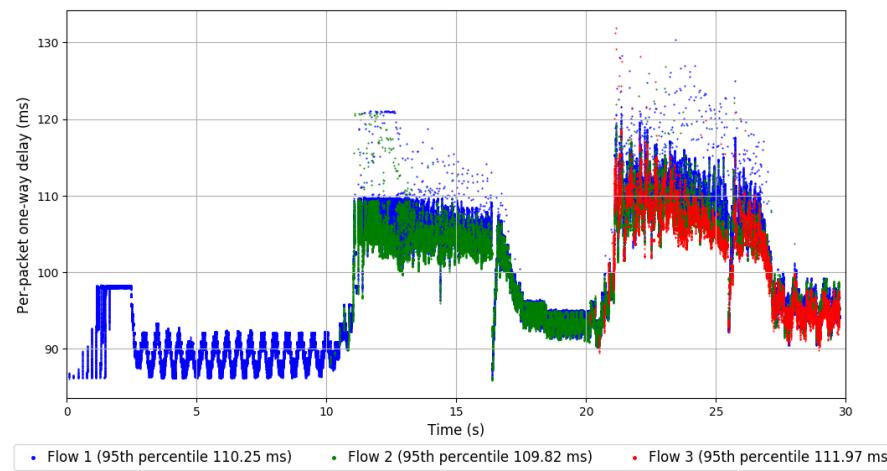
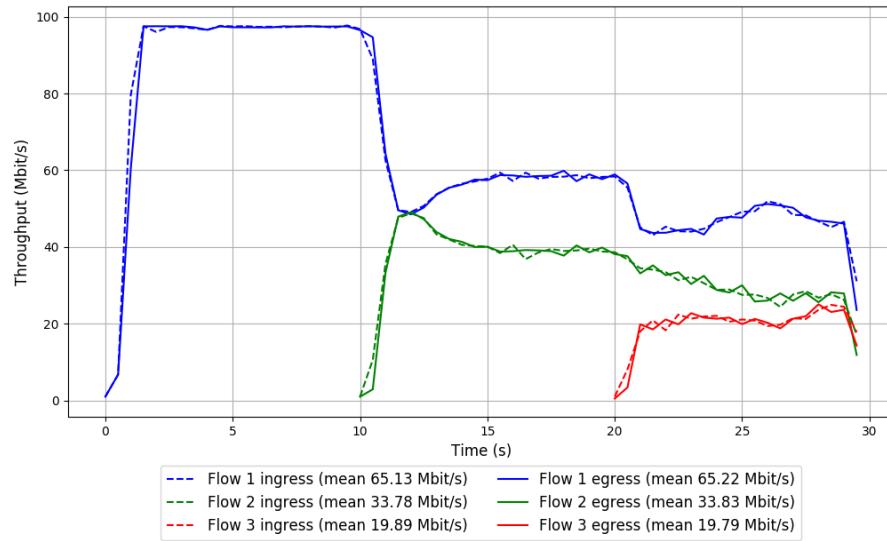


Run 8: Statistics of Indigo-1-32

```
Start at: 2018-02-13 16:20:50
End at: 2018-02-13 16:21:20
Local clock offset: -5.816 ms
Remote clock offset: -4.463 ms

# Below is generated by plot.py at 2018-02-13 21:42:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.98 Mbit/s
95th percentile per-packet one-way delay: 110.374 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 65.22 Mbit/s
95th percentile per-packet one-way delay: 110.251 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 33.83 Mbit/s
95th percentile per-packet one-way delay: 109.816 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 19.79 Mbit/s
95th percentile per-packet one-way delay: 111.974 ms
Loss rate: 2.29%
```

Run 8: Report of Indigo-1-32 — Data Link

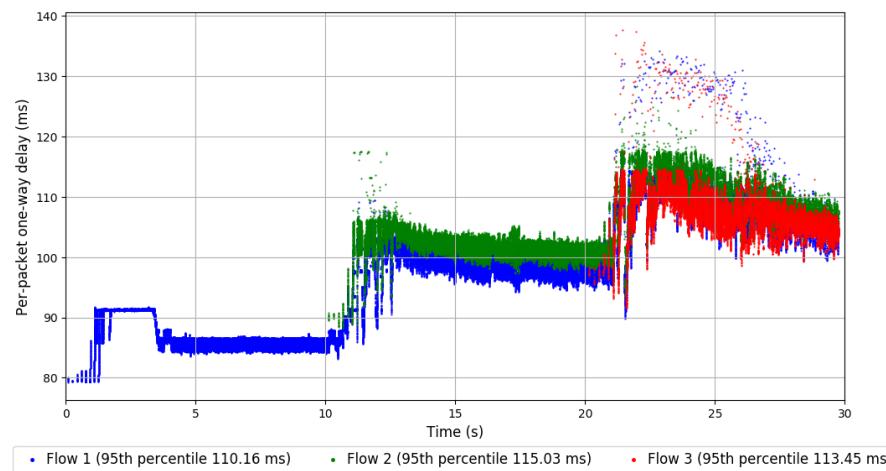
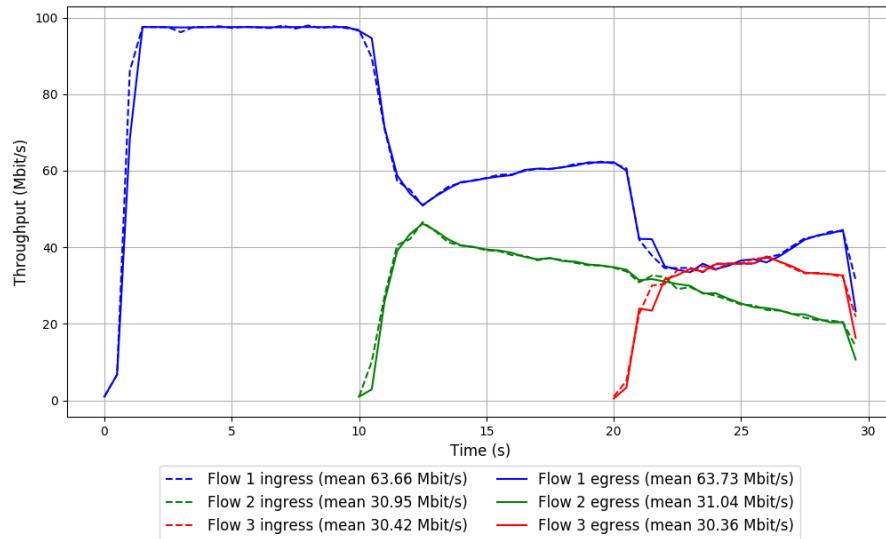


Run 9: Statistics of Indigo-1-32

```
Start at: 2018-02-13 16:44:29
End at: 2018-02-13 16:44:59
Local clock offset: -7.093 ms
Remote clock offset: 0.354 ms

# Below is generated by plot.py at 2018-02-13 21:42:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 112.358 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 63.73 Mbit/s
95th percentile per-packet one-way delay: 110.158 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 115.035 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 113.450 ms
Loss rate: 2.05%
```

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

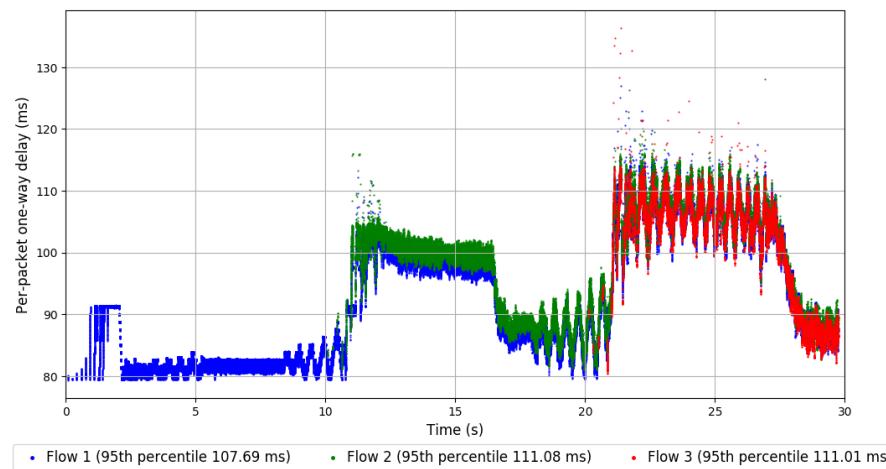
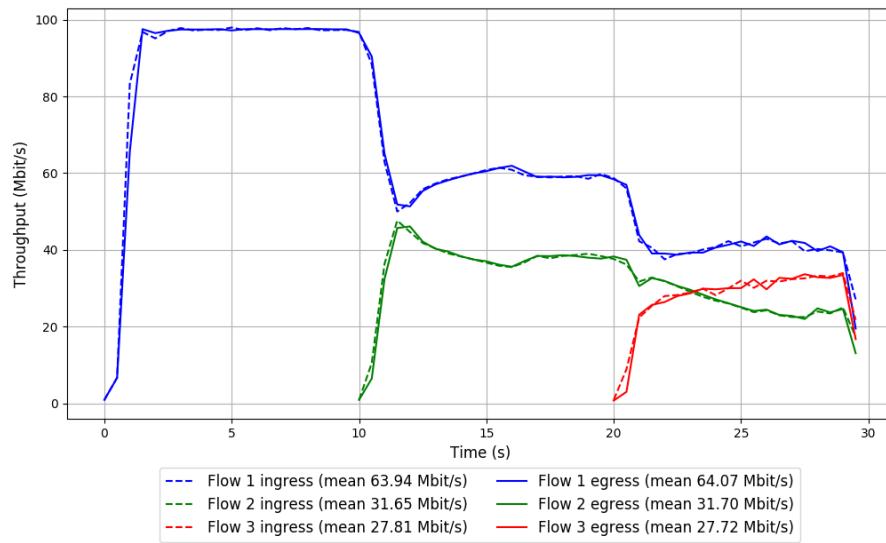


Run 10: Statistics of Indigo-1-32

```
Start at: 2018-02-13 17:08:15
End at: 2018-02-13 17:08:45
Local clock offset: -8.14 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-02-13 21:42:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 109.606 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 64.07 Mbit/s
95th percentile per-packet one-way delay: 107.685 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 111.083 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 27.72 Mbit/s
95th percentile per-packet one-way delay: 111.008 ms
Loss rate: 2.13%
```

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

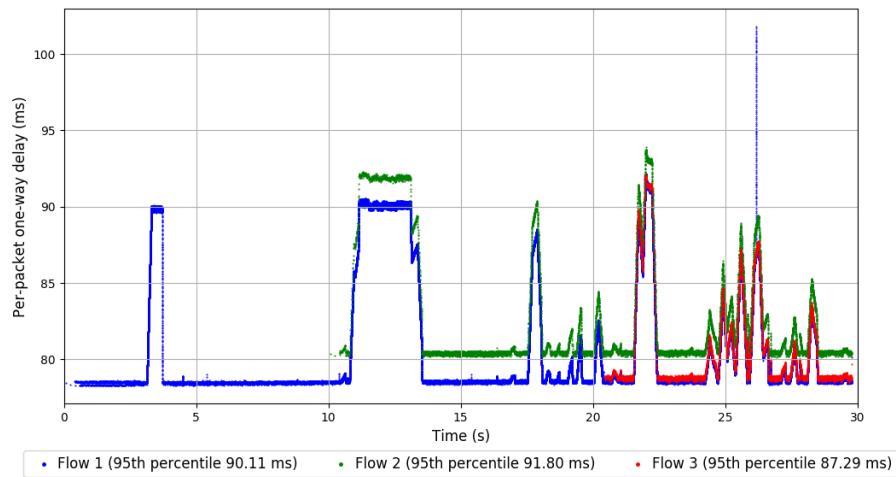
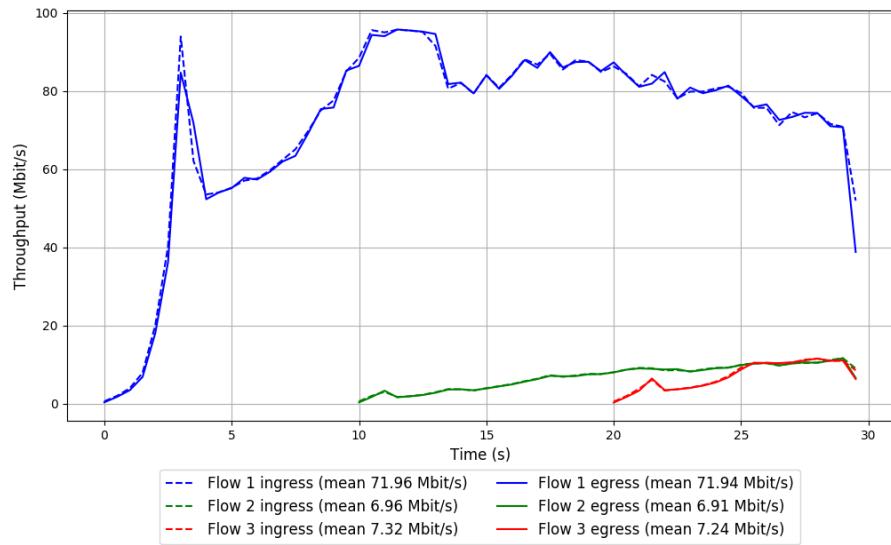


Run 1: Statistics of Vivace-latency

```
Start at: 2018-02-13 13:47:30
End at: 2018-02-13 13:48:00
Local clock offset: -3.419 ms
Remote clock offset: 1.091 ms

# Below is generated by plot.py at 2018-02-13 21:42:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 90.115 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 71.94 Mbit/s
95th percentile per-packet one-way delay: 90.114 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 91.799 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 87.288 ms
Loss rate: 2.73%
```

Run 1: Report of Vivace-latency — Data Link

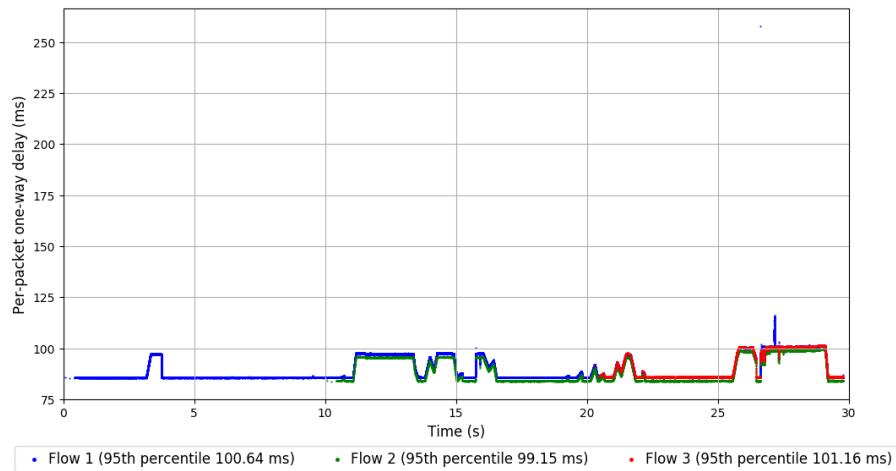
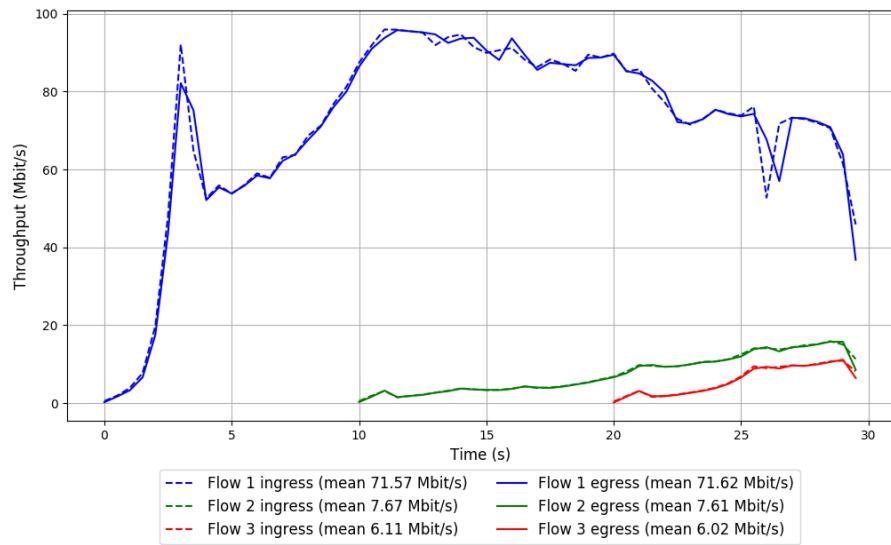


Run 2: Statistics of Vivace-latency

```
Start at: 2018-02-13 14:11:08
End at: 2018-02-13 14:11:38
Local clock offset: -3.621 ms
Remote clock offset: -4.93 ms

# Below is generated by plot.py at 2018-02-13 21:42:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.63 Mbit/s
95th percentile per-packet one-way delay: 100.666 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 71.62 Mbit/s
95th percentile per-packet one-way delay: 100.639 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 99.146 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 101.164 ms
Loss rate: 3.13%
```

Run 2: Report of Vivace-latency — Data Link

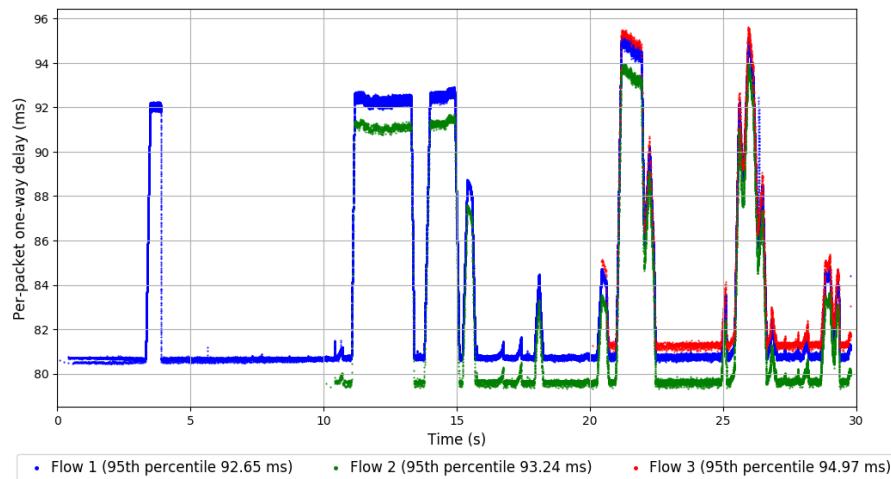
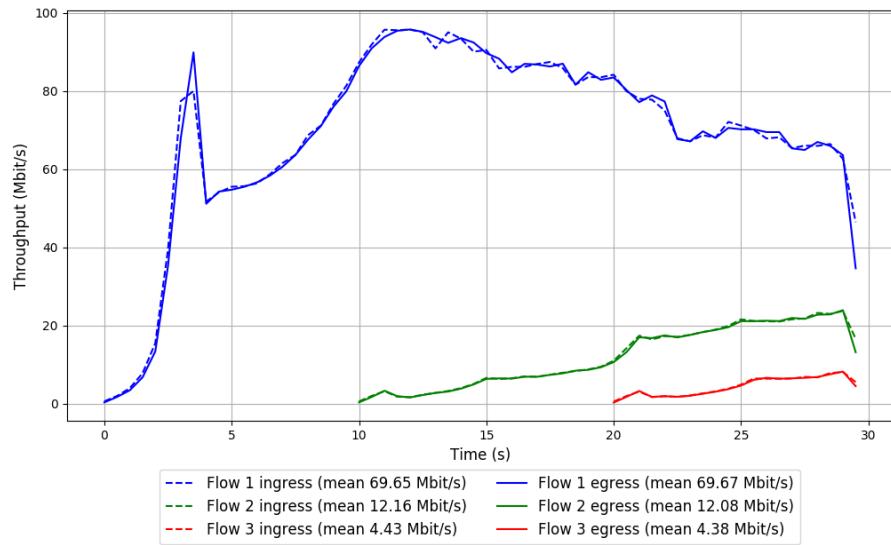


Run 3: Statistics of Vivace-latency

```
Start at: 2018-02-13 14:34:42
End at: 2018-02-13 14:35:12
Local clock offset: -3.655 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-02-13 21:42:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.11 Mbit/s
95th percentile per-packet one-way delay: 92.674 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 69.67 Mbit/s
95th percentile per-packet one-way delay: 92.646 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 93.236 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 94.973 ms
Loss rate: 2.70%
```

Run 3: Report of Vivace-latency — Data Link

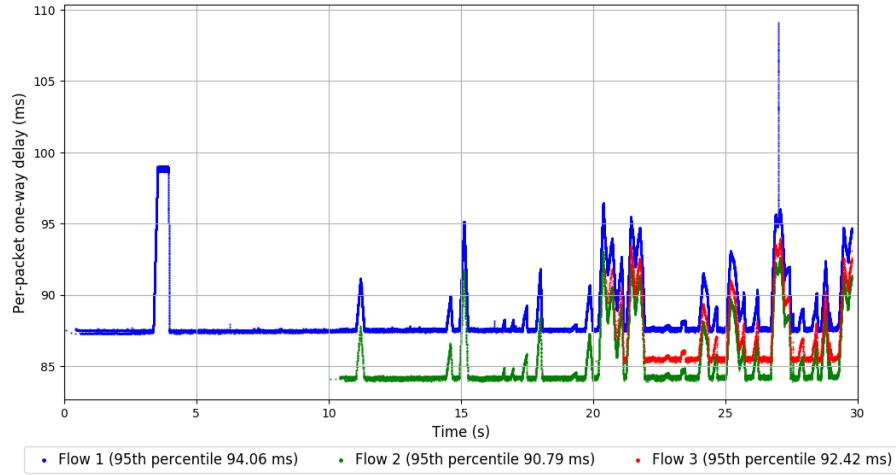
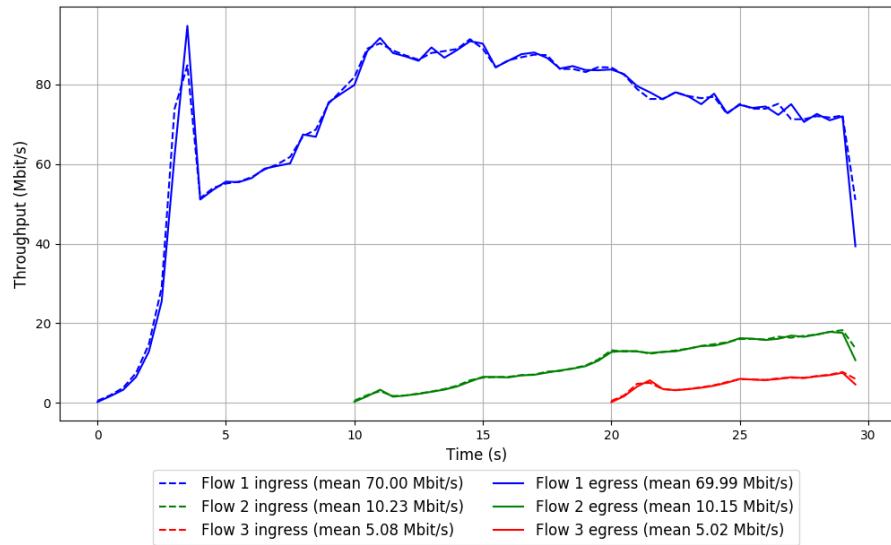


Run 4: Statistics of Vivace-latency

```
Start at: 2018-02-13 14:58:15
End at: 2018-02-13 14:58:45
Local clock offset: -3.595 ms
Remote clock offset: -4.755 ms

# Below is generated by plot.py at 2018-02-13 21:42:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.35 Mbit/s
95th percentile per-packet one-way delay: 93.764 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 69.99 Mbit/s
95th percentile per-packet one-way delay: 94.061 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 10.15 Mbit/s
95th percentile per-packet one-way delay: 90.789 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 92.419 ms
Loss rate: 2.91%
```

Run 4: Report of Vivace-latency — Data Link

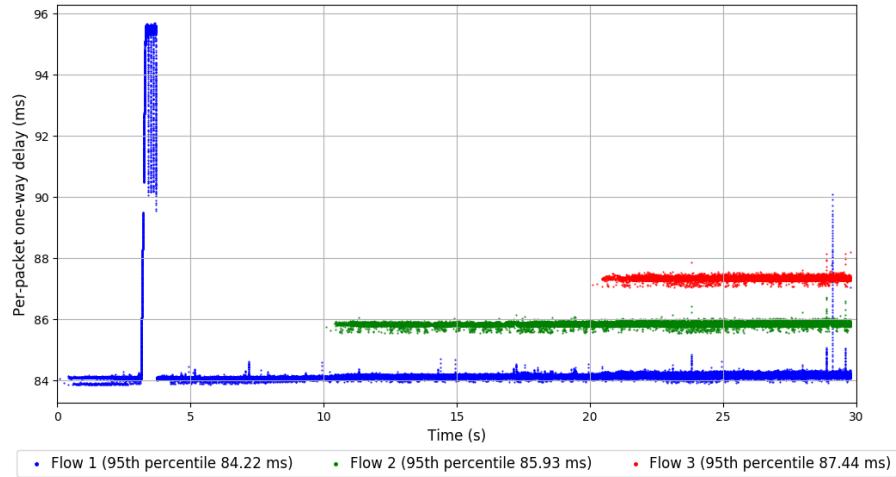
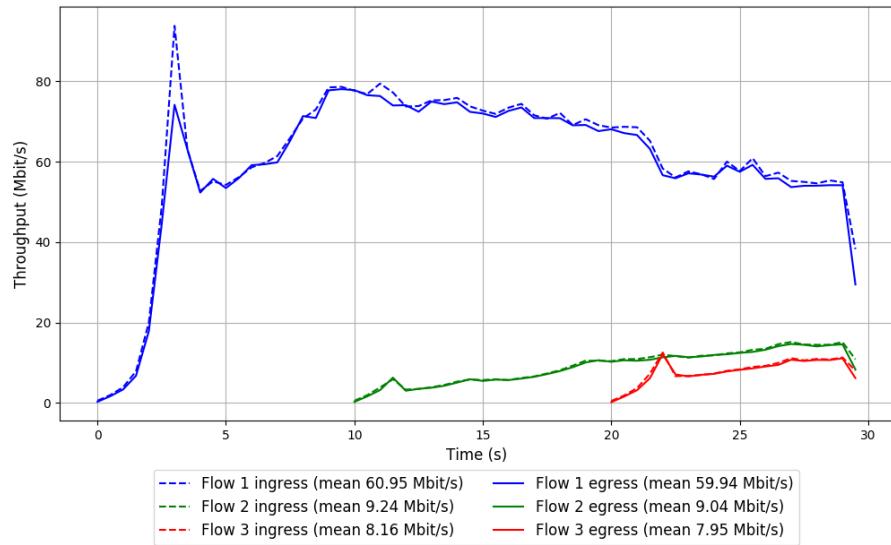


Run 5: Statistics of Vivace-latency

```
Start at: 2018-02-13 15:21:51
End at: 2018-02-13 15:22:21
Local clock offset: -6.421 ms
Remote clock offset: -4.697 ms

# Below is generated by plot.py at 2018-02-13 21:42:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.53 Mbit/s
95th percentile per-packet one-way delay: 87.291 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 59.94 Mbit/s
95th percentile per-packet one-way delay: 84.221 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 9.04 Mbit/s
95th percentile per-packet one-way delay: 85.933 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 87.443 ms
Loss rate: 4.17%
```

Run 5: Report of Vivace-latency — Data Link

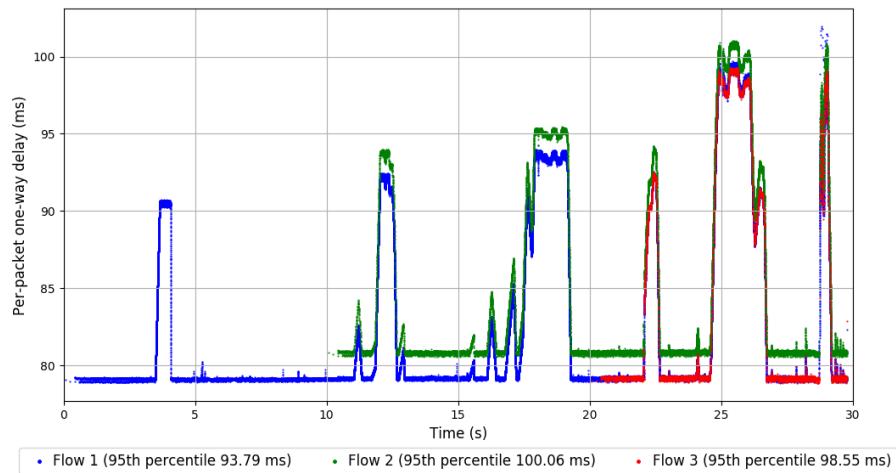
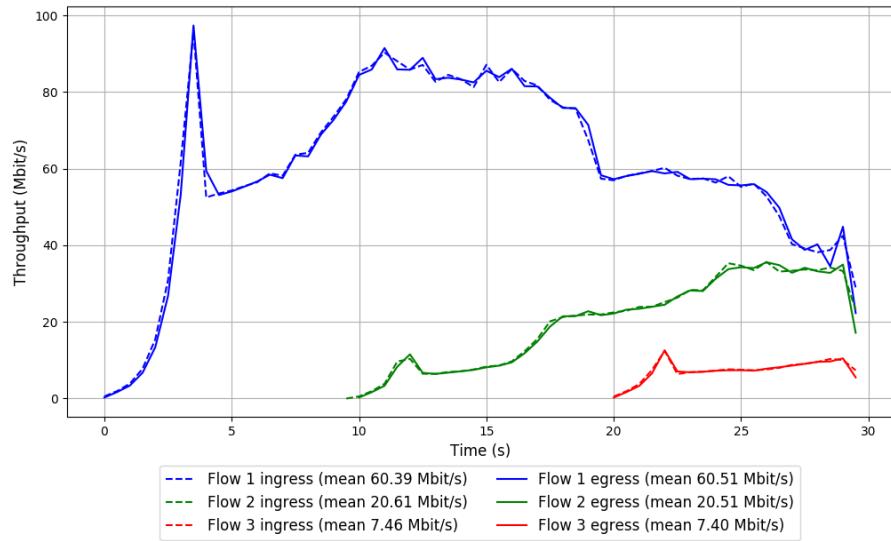


Run 6: Statistics of Vivace-latency

```
Start at: 2018-02-13 15:45:25
End at: 2018-02-13 15:45:55
Local clock offset: -4.477 ms
Remote clock offset: 1.959 ms

# Below is generated by plot.py at 2018-02-13 21:43:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.52 Mbit/s
95th percentile per-packet one-way delay: 97.887 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 60.51 Mbit/s
95th percentile per-packet one-way delay: 93.793 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 20.51 Mbit/s
95th percentile per-packet one-way delay: 100.065 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 98.551 ms
Loss rate: 2.41%
```

Run 6: Report of Vivace-latency — Data Link

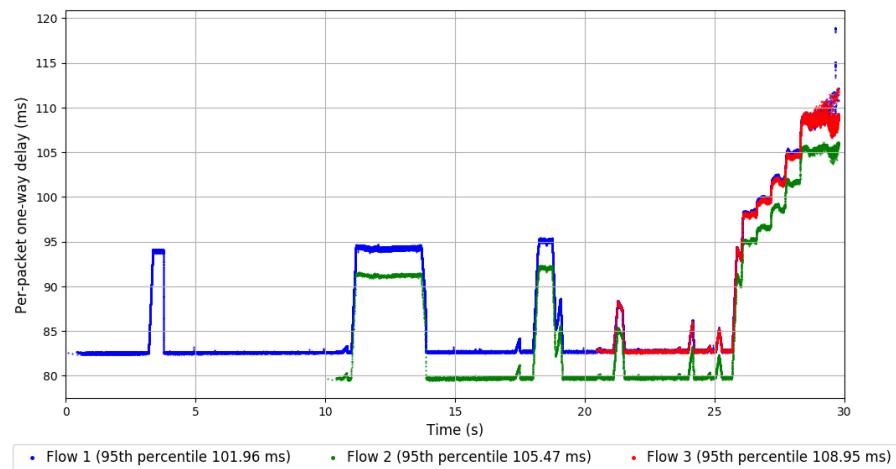
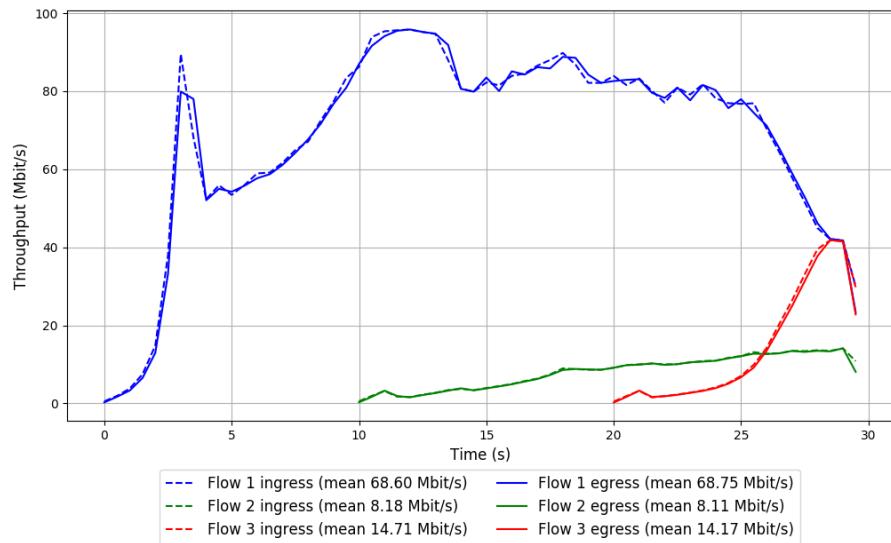


Run 7: Statistics of Vivace-latency

```
Start at: 2018-02-13 16:08:59
End at: 2018-02-13 16:09:29
Local clock offset: -3.929 ms
Remote clock offset: 0.358 ms

# Below is generated by plot.py at 2018-02-13 21:43:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.74 Mbit/s
95th percentile per-packet one-way delay: 107.666 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 68.75 Mbit/s
95th percentile per-packet one-way delay: 101.956 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 8.11 Mbit/s
95th percentile per-packet one-way delay: 105.472 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 14.17 Mbit/s
95th percentile per-packet one-way delay: 108.947 ms
Loss rate: 5.52%
```

Run 7: Report of Vivace-latency — Data Link

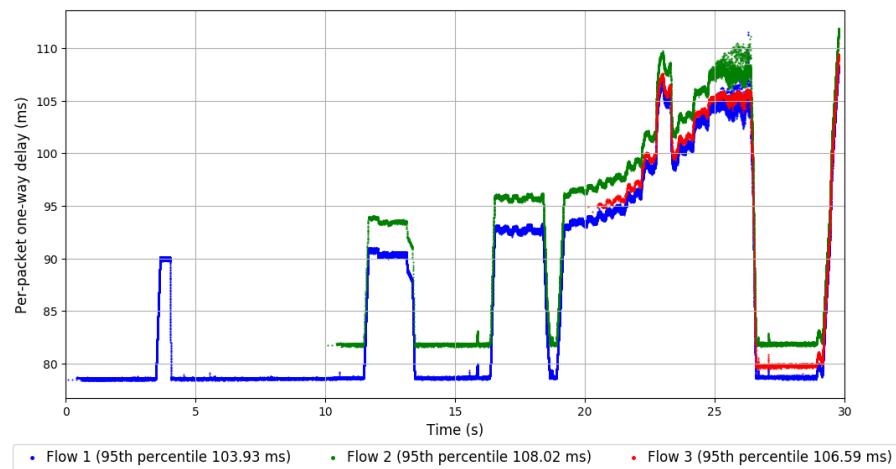
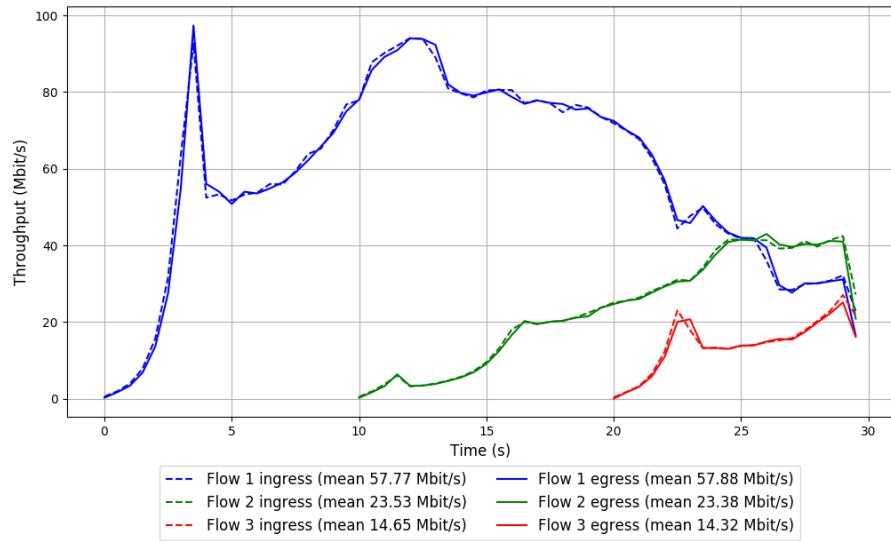


Run 8: Statistics of Vivace-latency

```
Start at: 2018-02-13 16:32:51
End at: 2018-02-13 16:33:21
Local clock offset: -6.615 ms
Remote clock offset: 1.352 ms

# Below is generated by plot.py at 2018-02-13 21:43:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.05 Mbit/s
95th percentile per-packet one-way delay: 106.076 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 57.88 Mbit/s
95th percentile per-packet one-way delay: 103.930 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 108.022 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 106.595 ms
Loss rate: 4.01%
```

Run 8: Report of Vivace-latency — Data Link

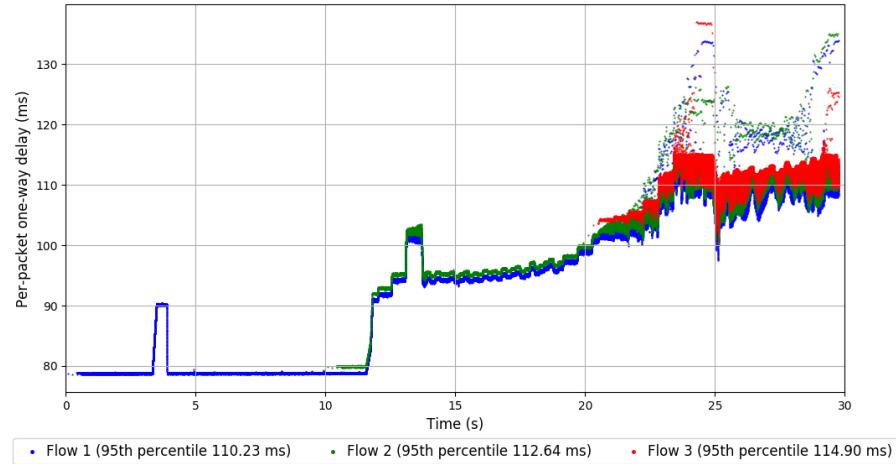
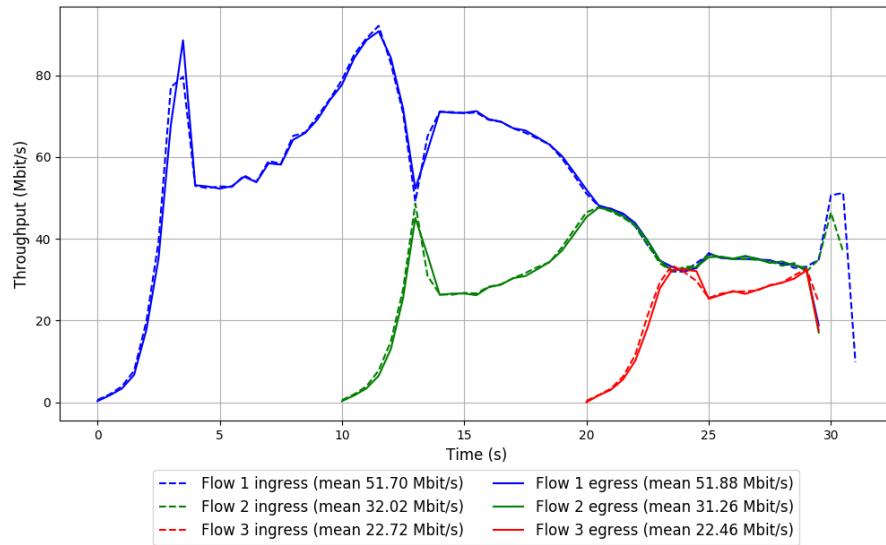


Run 9: Statistics of Vivace-latency

```
Start at: 2018-02-13 16:56:31
End at: 2018-02-13 16:57:01
Local clock offset: -7.688 ms
Remote clock offset: 1.134 ms

# Below is generated by plot.py at 2018-02-13 21:43:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.88 Mbit/s
95th percentile per-packet one-way delay: 112.648 ms
Loss rate: 5.15%
-- Flow 1:
Average throughput: 51.88 Mbit/s
95th percentile per-packet one-way delay: 110.232 ms
Loss rate: 4.22%
-- Flow 2:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 112.644 ms
Loss rate: 8.04%
-- Flow 3:
Average throughput: 22.46 Mbit/s
95th percentile per-packet one-way delay: 114.897 ms
Loss rate: 3.20%
```

Run 9: Report of Vivace-latency — Data Link

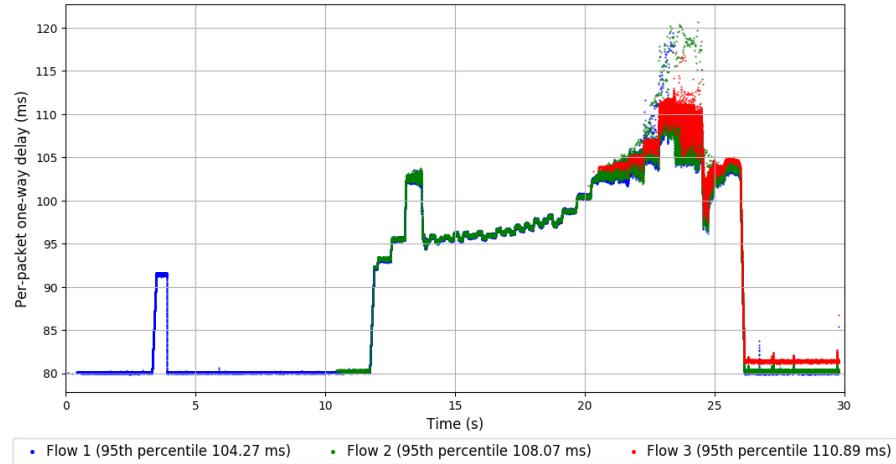
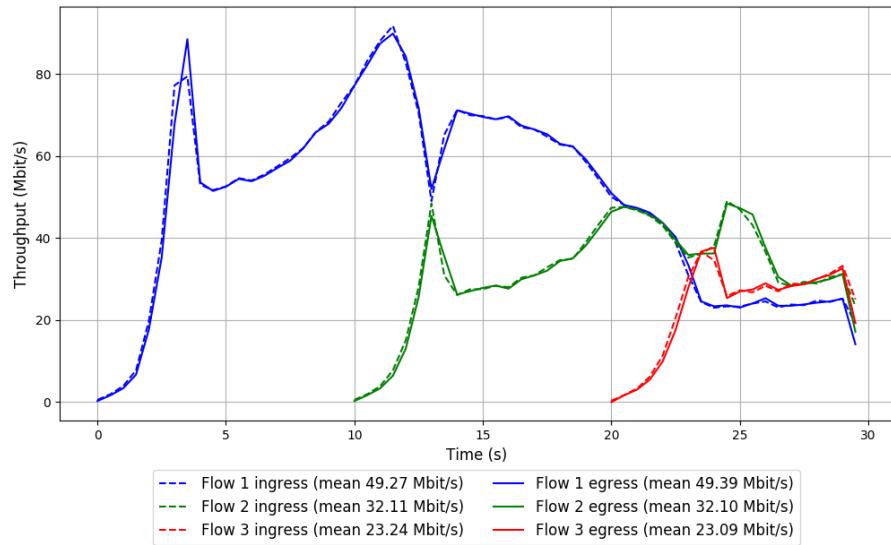


Run 10: Statistics of Vivace-latency

```
Start at: 2018-02-13 17:20:22
End at: 2018-02-13 17:20:52
Local clock offset: -7.687 ms
Remote clock offset: 0.984 ms

# Below is generated by plot.py at 2018-02-13 21:43:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.18 Mbit/s
95th percentile per-packet one-way delay: 107.766 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 49.39 Mbit/s
95th percentile per-packet one-way delay: 104.265 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 108.071 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 110.885 ms
Loss rate: 2.53%
```

Run 10: Report of Vivace-latency — Data Link

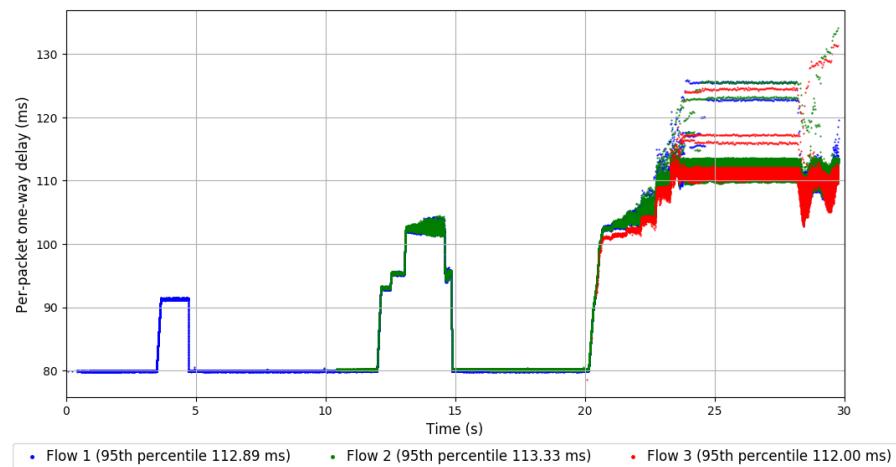
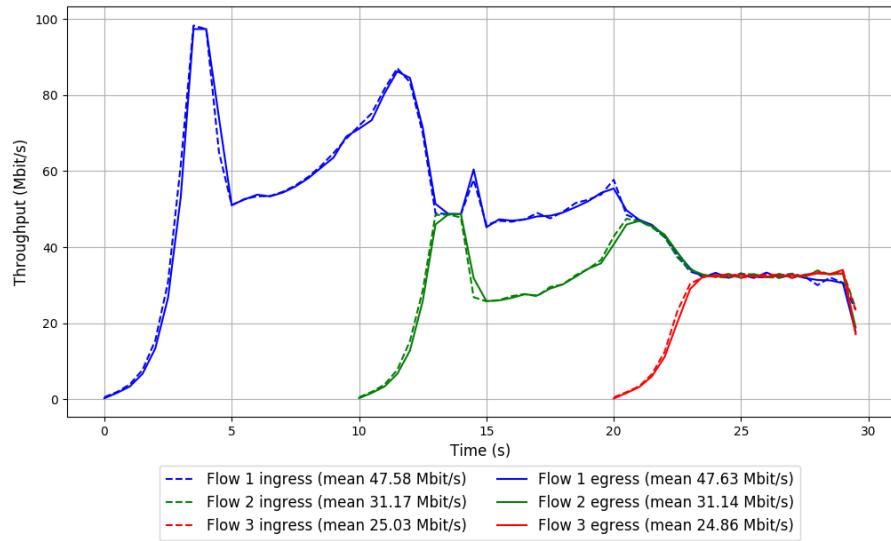


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 13:42:06
End at: 2018-02-13 13:42:36
Local clock offset: -3.491 ms
Remote clock offset: 1.341 ms

# Below is generated by plot.py at 2018-02-13 21:43:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.37 Mbit/s
95th percentile per-packet one-way delay: 113.081 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 47.63 Mbit/s
95th percentile per-packet one-way delay: 112.886 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 113.333 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 112.000 ms
Loss rate: 2.60%
```

Run 1: Report of Vivace-loss — Data Link

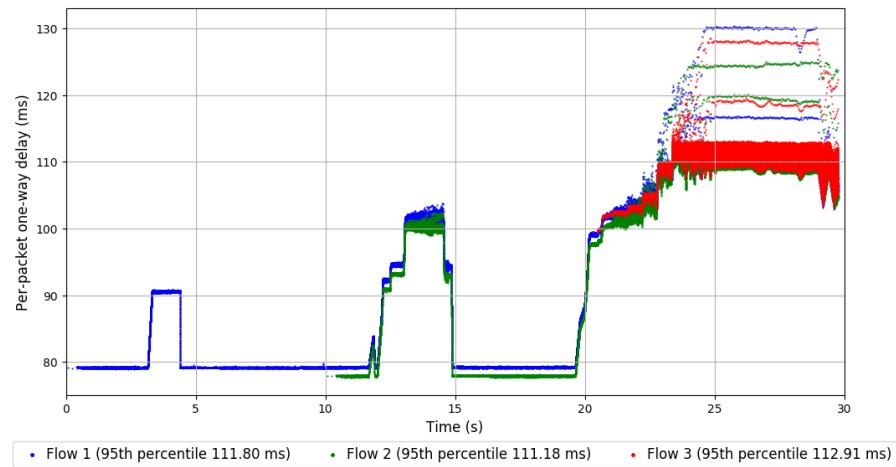
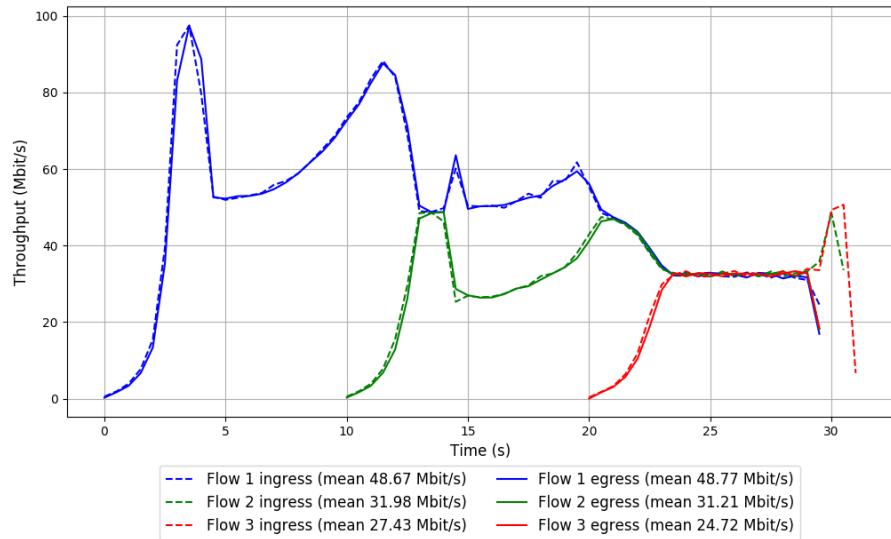


Run 2: Statistics of Vivace-loss

```
Start at: 2018-02-13 14:05:42
End at: 2018-02-13 14:06:12
Local clock offset: -3.663 ms
Remote clock offset: 1.555 ms

# Below is generated by plot.py at 2018-02-13 21:43:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.51 Mbit/s
95th percentile per-packet one-way delay: 112.258 ms
Loss rate: 5.16%
-- Flow 1:
Average throughput: 48.77 Mbit/s
95th percentile per-packet one-way delay: 111.803 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 111.176 ms
Loss rate: 8.01%
-- Flow 3:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 112.910 ms
Loss rate: 21.32%
```

Run 2: Report of Vivace-loss — Data Link

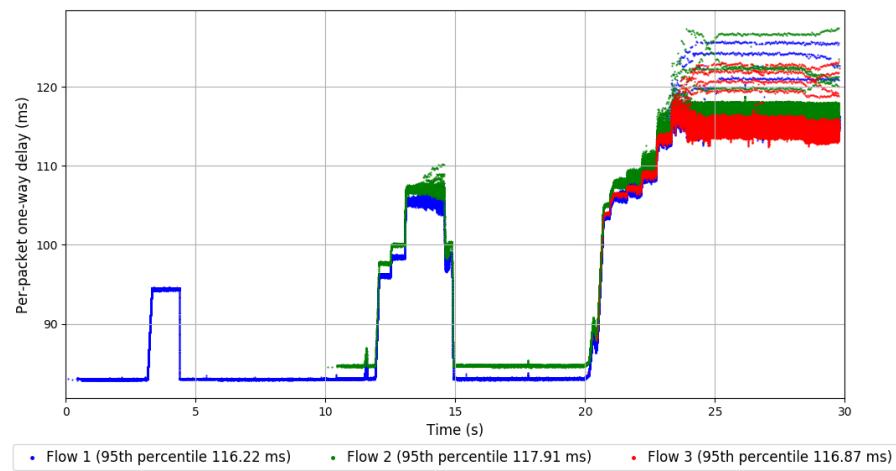
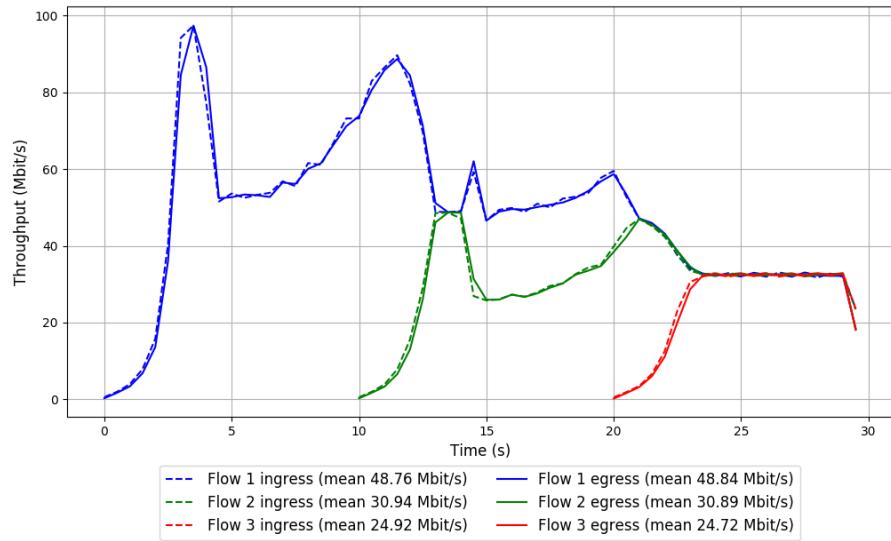


Run 3: Statistics of Vivace-loss

```
Start at: 2018-02-13 14:29:20
End at: 2018-02-13 14:29:50
Local clock offset: -3.617 ms
Remote clock offset: -4.208 ms

# Below is generated by plot.py at 2018-02-13 21:44:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.37 Mbit/s
95th percentile per-packet one-way delay: 116.877 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 48.84 Mbit/s
95th percentile per-packet one-way delay: 116.219 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 30.89 Mbit/s
95th percentile per-packet one-way delay: 117.905 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 116.871 ms
Loss rate: 2.60%
```

Run 3: Report of Vivace-loss — Data Link

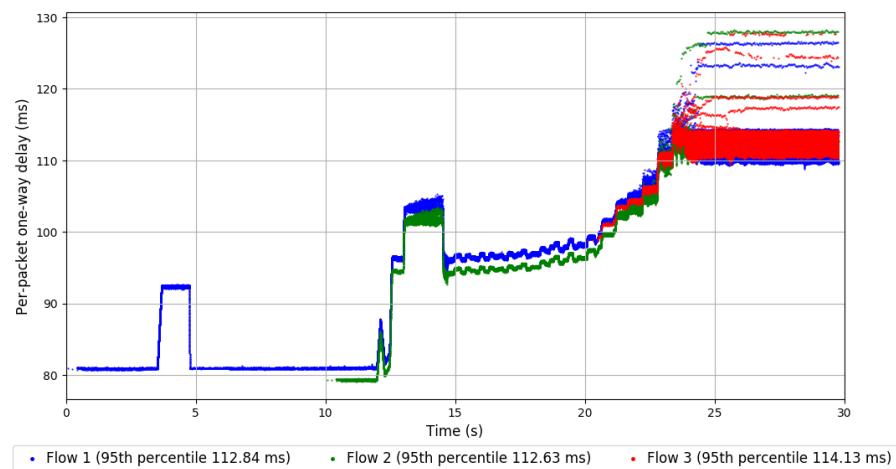
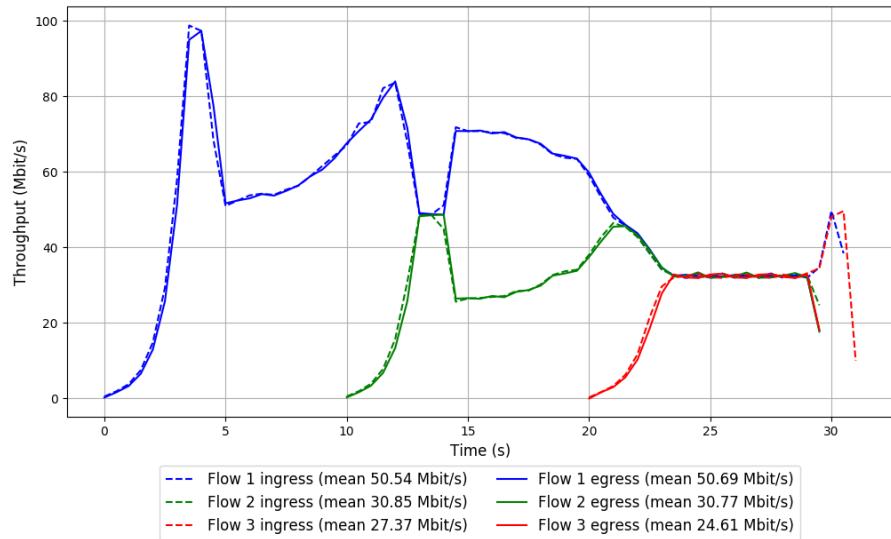


Run 4: Statistics of Vivace-loss

```
Start at: 2018-02-13 14:52:52
End at: 2018-02-13 14:53:22
Local clock offset: -3.634 ms
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-02-13 21:44:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.09 Mbit/s
95th percentile per-packet one-way delay: 113.530 ms
Loss rate: 5.20%
-- Flow 1:
Average throughput: 50.69 Mbit/s
95th percentile per-packet one-way delay: 112.836 ms
Loss rate: 3.59%
-- Flow 2:
Average throughput: 30.77 Mbit/s
95th percentile per-packet one-way delay: 112.629 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 114.127 ms
Loss rate: 21.70%
```

Run 4: Report of Vivace-loss — Data Link

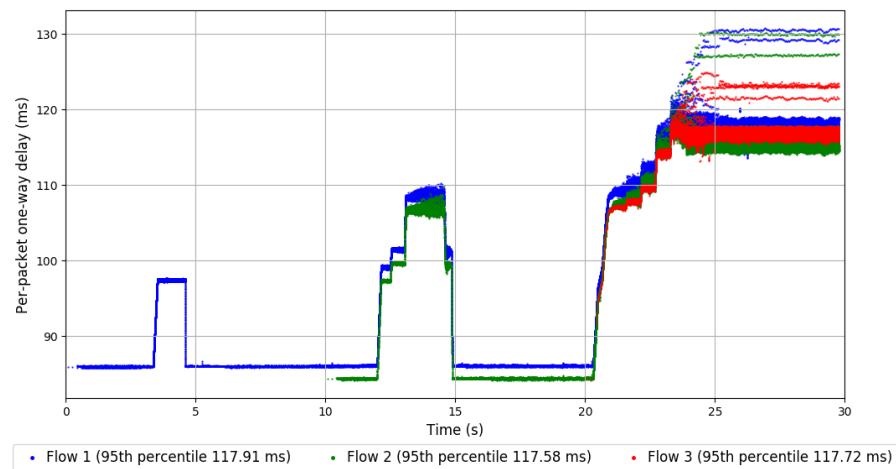
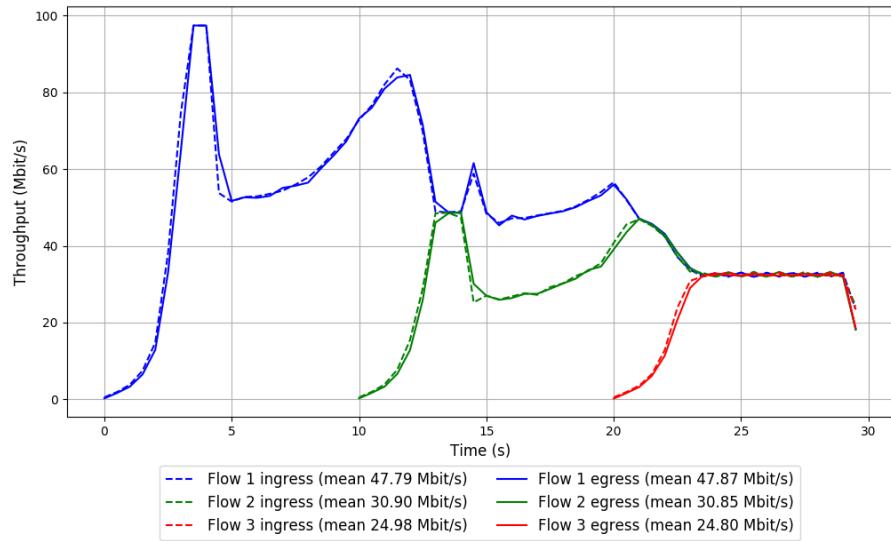


Run 5: Statistics of Vivace-loss

```
Start at: 2018-02-13 15:16:26
End at: 2018-02-13 15:16:56
Local clock offset: -6.106 ms
Remote clock offset: -4.7 ms

# Below is generated by plot.py at 2018-02-13 21:44:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.41 Mbit/s
95th percentile per-packet one-way delay: 117.657 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 117.907 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 30.85 Mbit/s
95th percentile per-packet one-way delay: 117.579 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 24.80 Mbit/s
95th percentile per-packet one-way delay: 117.720 ms
Loss rate: 2.60%
```

Run 5: Report of Vivace-loss — Data Link

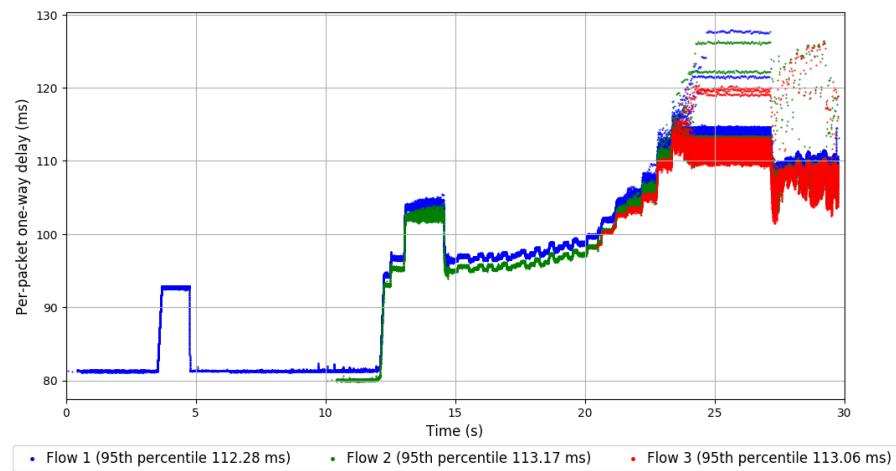
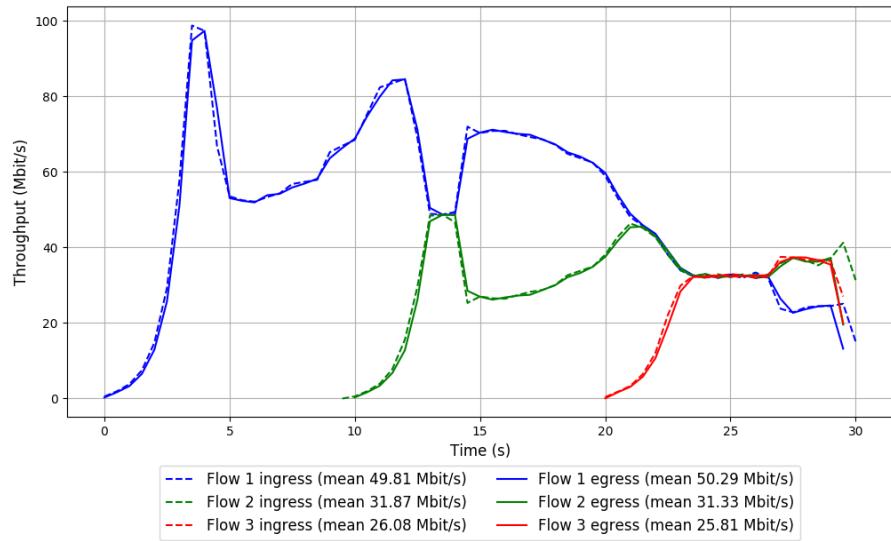


Run 6: Statistics of Vivace-loss

```
Start at: 2018-02-13 15:40:03
End at: 2018-02-13 15:40:33
Local clock offset: -5.236 ms
Remote clock offset: 1.163 ms

# Below is generated by plot.py at 2018-02-13 21:44:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.46 Mbit/s
95th percentile per-packet one-way delay: 113.019 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 50.29 Mbit/s
95th percentile per-packet one-way delay: 112.277 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 113.172 ms
Loss rate: 4.68%
-- Flow 3:
Average throughput: 25.81 Mbit/s
95th percentile per-packet one-way delay: 113.055 ms
Loss rate: 3.04%
```

Run 6: Report of Vivace-loss — Data Link

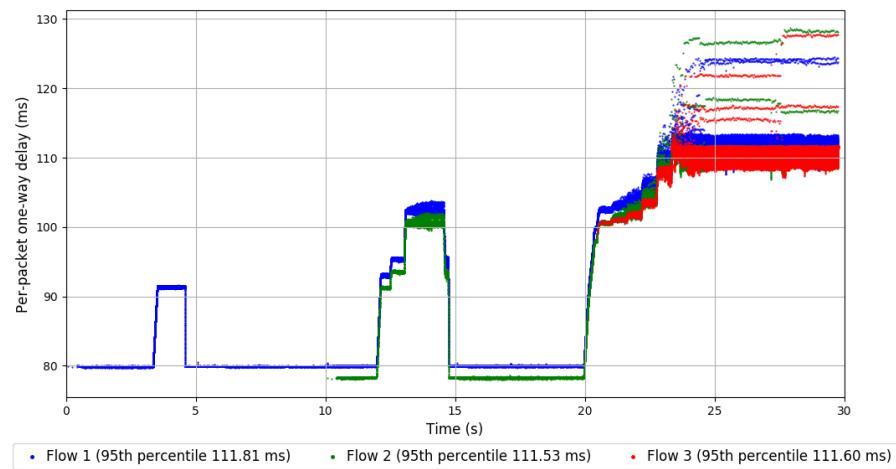
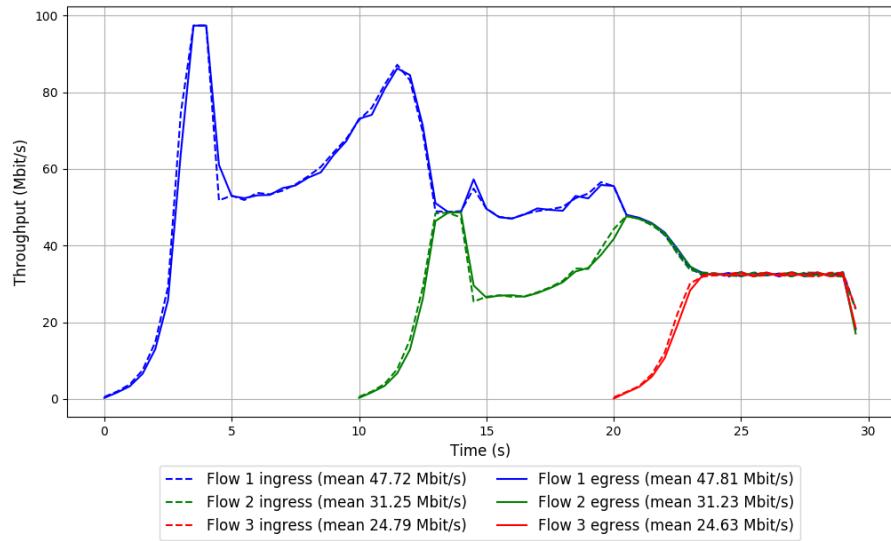


Run 7: Statistics of Vivace-loss

```
Start at: 2018-02-13 16:03:35
End at: 2018-02-13 16:04:05
Local clock offset: -3.636 ms
Remote clock offset: 1.207 ms

# Below is generated by plot.py at 2018-02-13 21:44:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.52 Mbit/s
95th percentile per-packet one-way delay: 111.577 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 47.81 Mbit/s
95th percentile per-packet one-way delay: 111.807 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 111.528 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 111.601 ms
Loss rate: 2.65%
```

Run 7: Report of Vivace-loss — Data Link

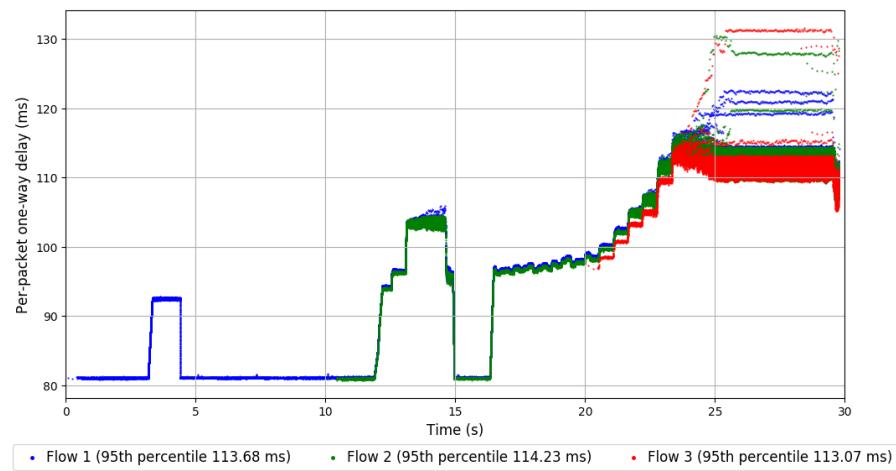
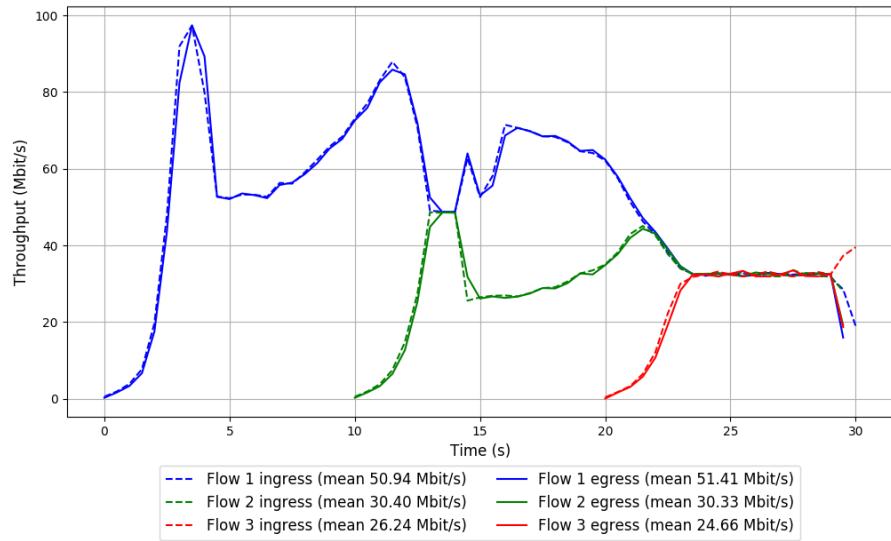


Run 8: Statistics of Vivace-loss

```
Start at: 2018-02-13 16:27:24
End at: 2018-02-13 16:27:54
Local clock offset: -6.299 ms
Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2018-02-13 21:44:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.54 Mbit/s
95th percentile per-packet one-way delay: 114.089 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 51.41 Mbit/s
95th percentile per-packet one-way delay: 113.676 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 114.228 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 113.066 ms
Loss rate: 12.19%
```

Run 8: Report of Vivace-loss — Data Link

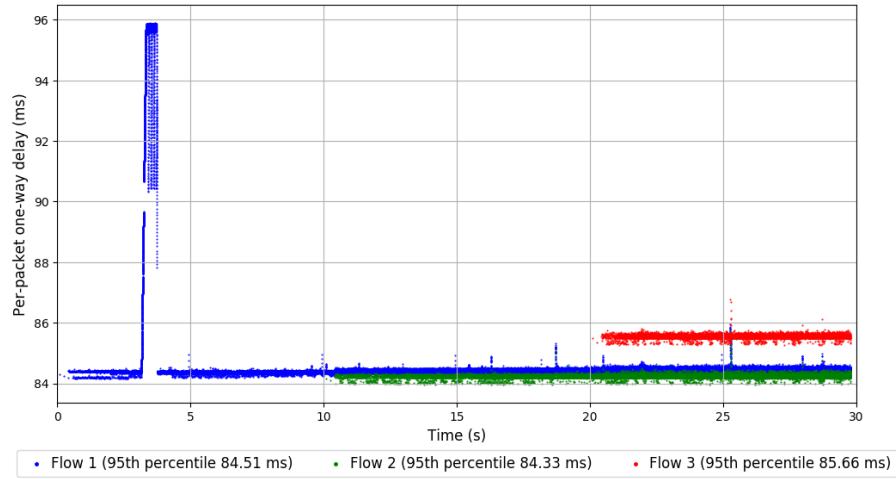
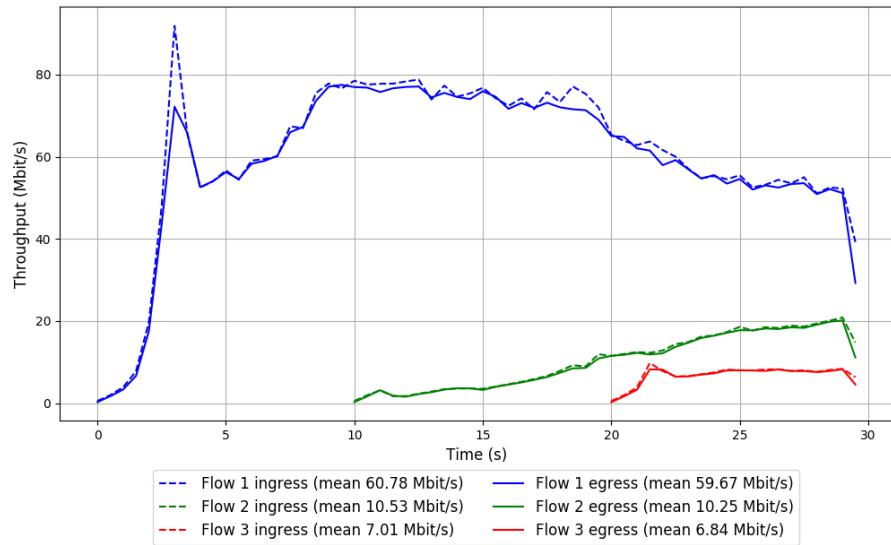


Run 9: Statistics of Vivace-loss

```
Start at: 2018-02-13 16:51:02
End at: 2018-02-13 16:51:32
Local clock offset: -7.456 ms
Remote clock offset: -4.498 ms

# Below is generated by plot.py at 2018-02-13 21:44:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.70 Mbit/s
95th percentile per-packet one-way delay: 85.500 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 59.67 Mbit/s
95th percentile per-packet one-way delay: 84.509 ms
Loss rate: 2.38%
-- Flow 2:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 84.328 ms
Loss rate: 3.43%
-- Flow 3:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 85.662 ms
Loss rate: 4.15%
```

Run 9: Report of Vivace-loss — Data Link

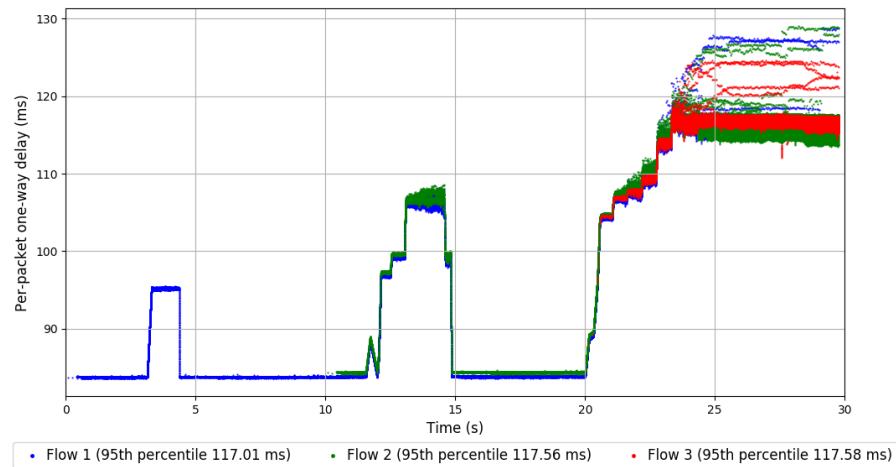
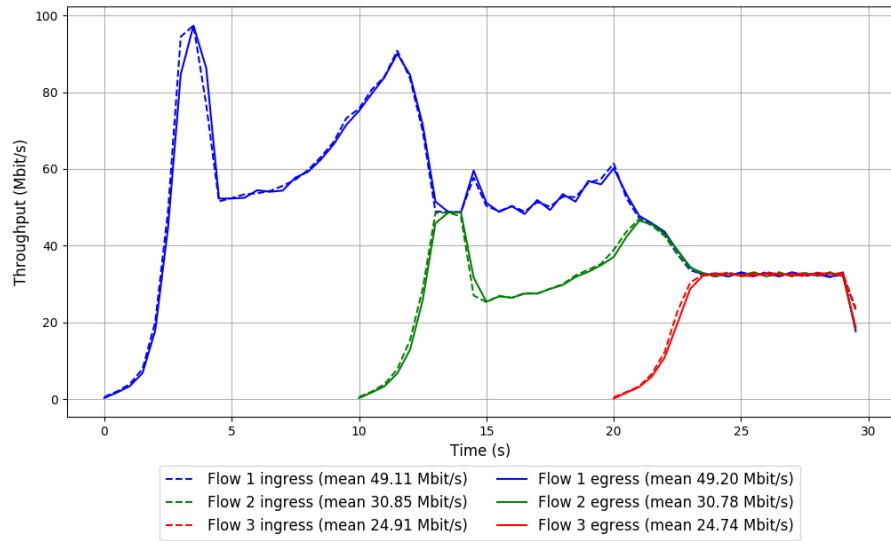


Run 10: Statistics of Vivace-loss

```
Start at: 2018-02-13 17:14:48
End at: 2018-02-13 17:15:18
Local clock offset: -8.363 ms
Remote clock offset: -4.529 ms

# Below is generated by plot.py at 2018-02-13 21:44:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 117.357 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 49.20 Mbit/s
95th percentile per-packet one-way delay: 117.007 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 117.557 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 117.582 ms
Loss rate: 2.61%
```

Run 10: Report of Vivace-loss — Data Link

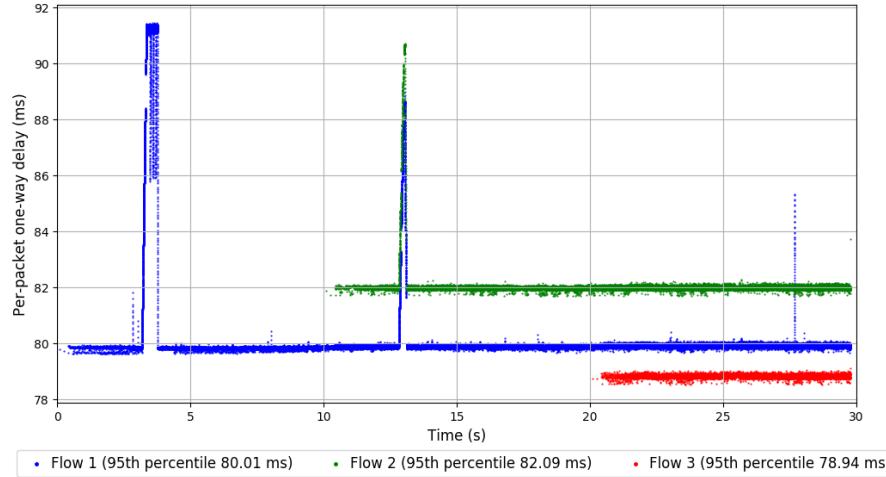
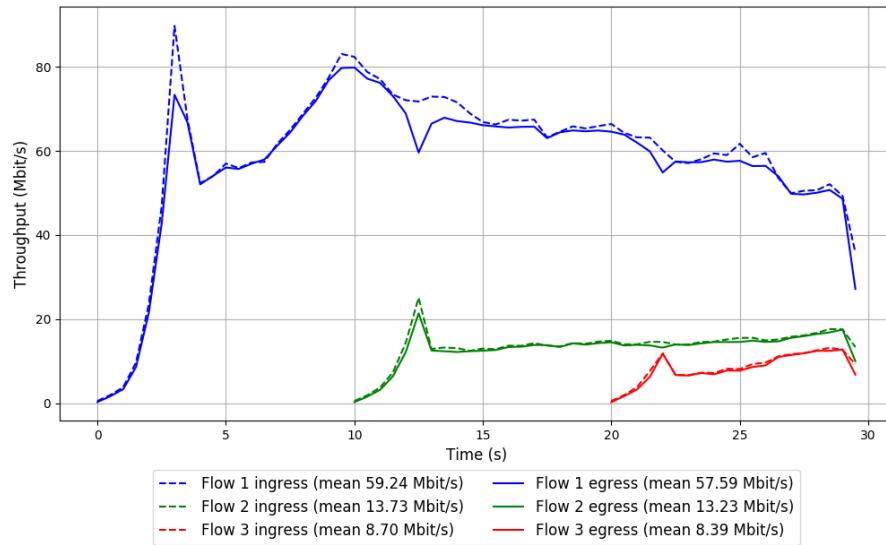


Run 1: Statistics of Vivace-LTE

```
Start at: 2018-02-13 13:32:51
End at: 2018-02-13 13:33:21
Local clock offset: -3.547 ms
Remote clock offset: 1.158 ms

# Below is generated by plot.py at 2018-02-13 21:45:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.10 Mbit/s
95th percentile per-packet one-way delay: 82.044 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 57.59 Mbit/s
95th percentile per-packet one-way delay: 80.007 ms
Loss rate: 3.32%
-- Flow 2:
Average throughput: 13.23 Mbit/s
95th percentile per-packet one-way delay: 82.086 ms
Loss rate: 4.42%
-- Flow 3:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 78.942 ms
Loss rate: 5.16%
```

Run 1: Report of Vivace-LTE — Data Link

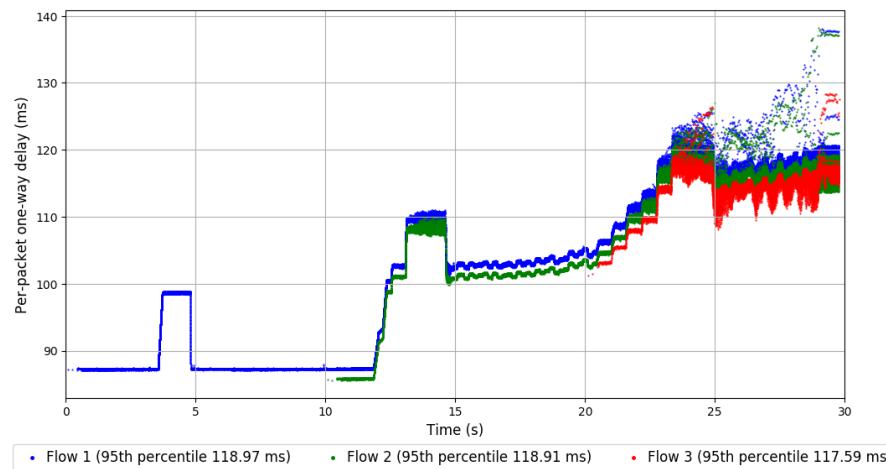
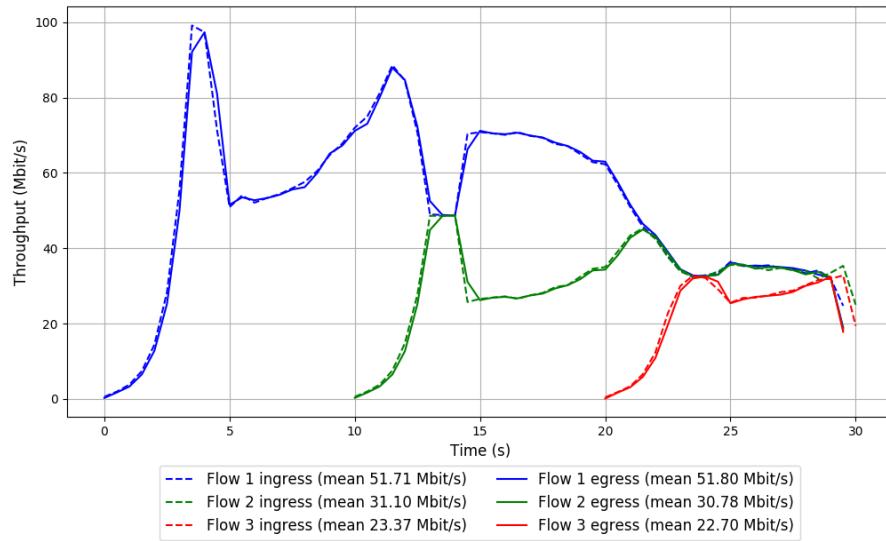


Run 2: Statistics of Vivace-LTE

```
Start at: 2018-02-13 13:56:30
End at: 2018-02-13 13:57:00
Local clock offset: -3.571 ms
Remote clock offset: -4.747 ms

# Below is generated by plot.py at 2018-02-13 21:45:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.58 Mbit/s
95th percentile per-packet one-way delay: 118.852 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 51.80 Mbit/s
95th percentile per-packet one-way delay: 118.971 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 118.906 ms
Loss rate: 3.96%
-- Flow 3:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 117.595 ms
Loss rate: 8.66%
```

Run 2: Report of Vivace-LTE — Data Link

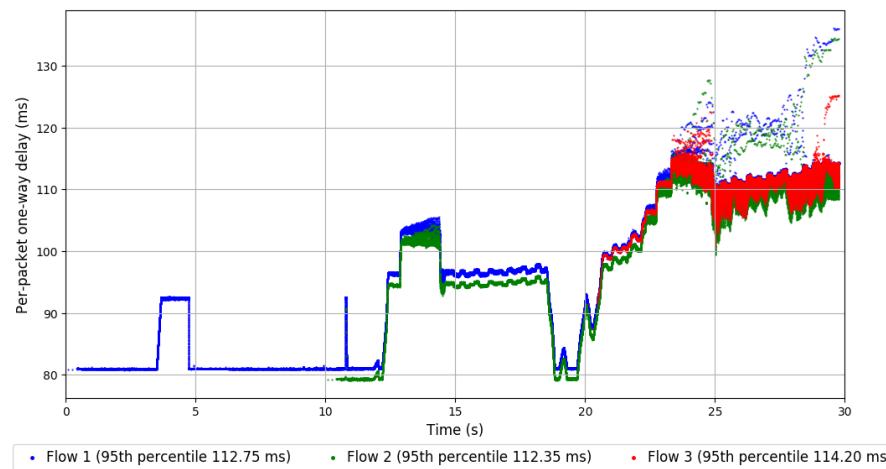
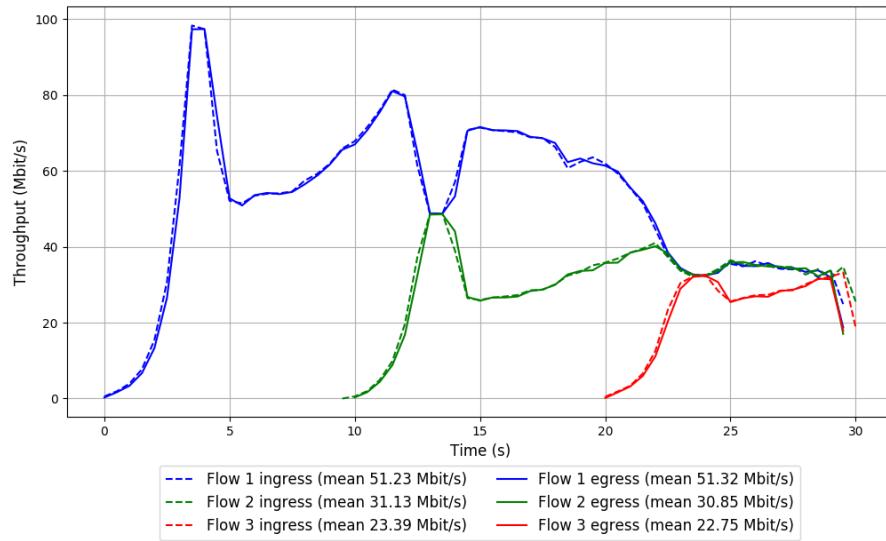


Run 3: Statistics of Vivace-LTE

```
Start at: 2018-02-13 14:20:08
End at: 2018-02-13 14:20:38
Local clock offset: -3.656 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-02-13 21:45:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.17 Mbit/s
95th percentile per-packet one-way delay: 113.312 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 51.32 Mbit/s
95th percentile per-packet one-way delay: 112.746 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 30.85 Mbit/s
95th percentile per-packet one-way delay: 112.350 ms
Loss rate: 3.93%
-- Flow 3:
Average throughput: 22.75 Mbit/s
95th percentile per-packet one-way delay: 114.201 ms
Loss rate: 8.61%
```

Run 3: Report of Vivace-LTE — Data Link

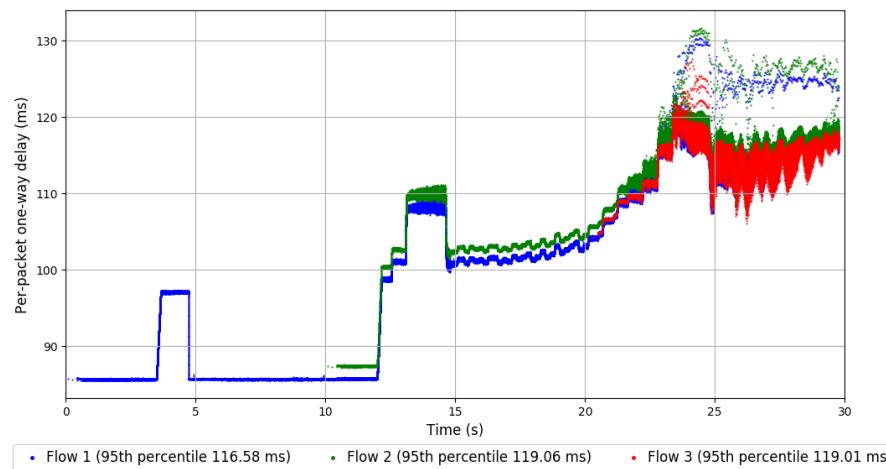
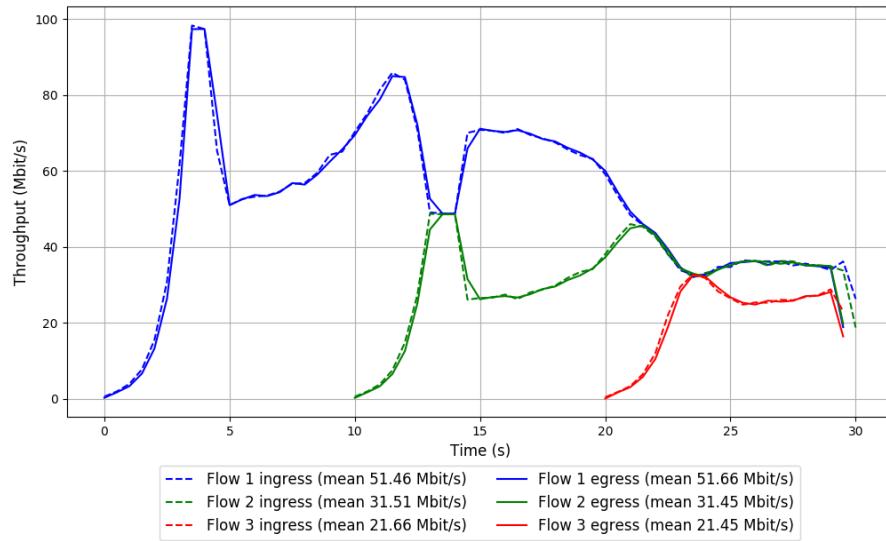


Run 4: Statistics of Vivace-LTE

```
Start at: 2018-02-13 14:43:41
End at: 2018-02-13 14:44:11
Local clock offset: -3.661 ms
Remote clock offset: -5.048 ms

# Below is generated by plot.py at 2018-02-13 21:45:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 118.039 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 116.578 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 119.056 ms
Loss rate: 3.22%
-- Flow 3:
Average throughput: 21.45 Mbit/s
95th percentile per-packet one-way delay: 119.008 ms
Loss rate: 3.15%
```

Run 4: Report of Vivace-LTE — Data Link

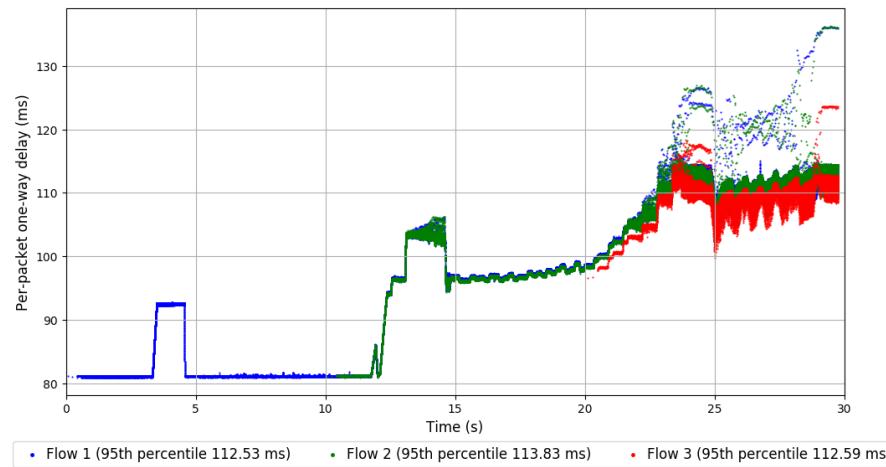
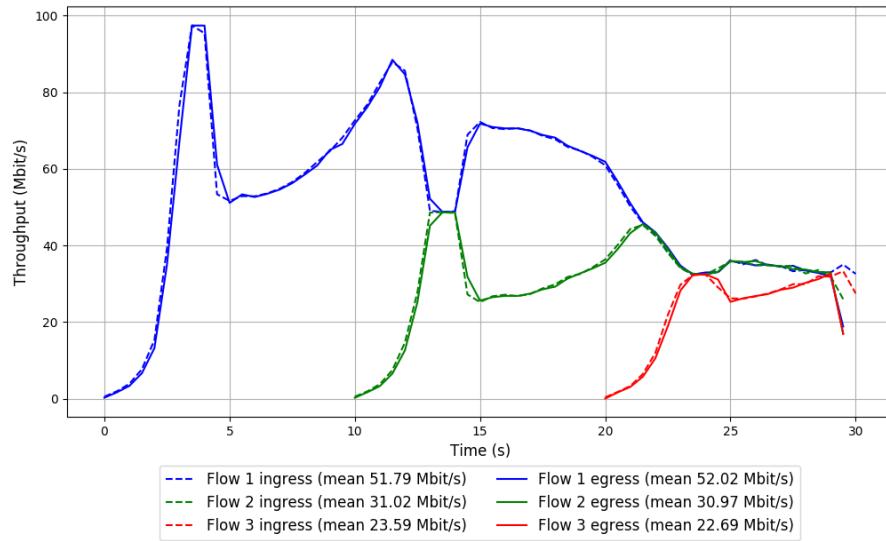


Run 5: Statistics of Vivace-LTE

```
Start at: 2018-02-13 15:07:13
End at: 2018-02-13 15:07:43
Local clock offset: -5.128 ms
Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2018-02-13 21:45:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.92 Mbit/s
95th percentile per-packet one-way delay: 112.991 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 52.02 Mbit/s
95th percentile per-packet one-way delay: 112.525 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 113.829 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 22.69 Mbit/s
95th percentile per-packet one-way delay: 112.586 ms
Loss rate: 10.32%
```

Run 5: Report of Vivace-LTE — Data Link

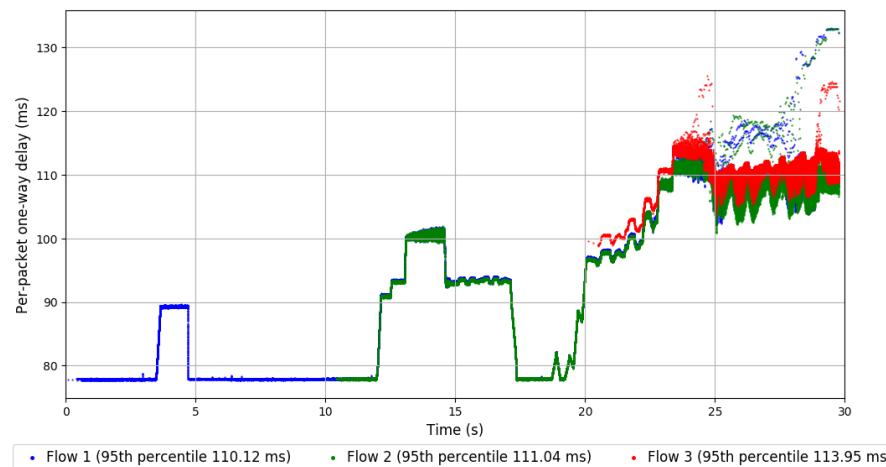
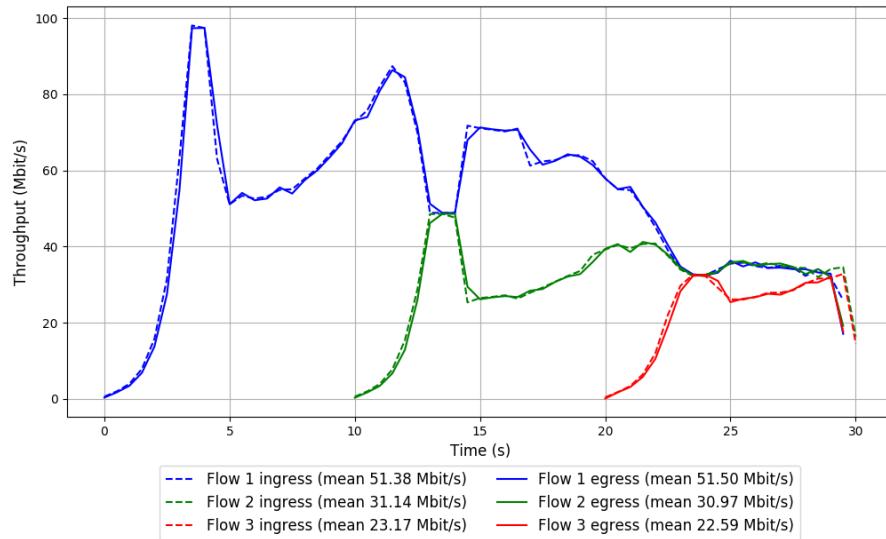


Run 6: Statistics of Vivace-LTE

```
Start at: 2018-02-13 15:30:50
End at: 2018-02-13 15:31:20
Local clock offset: -6.874 ms
Remote clock offset: 1.949 ms

# Below is generated by plot.py at 2018-02-13 21:46:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.34 Mbit/s
95th percentile per-packet one-way delay: 111.468 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 51.50 Mbit/s
95th percentile per-packet one-way delay: 110.124 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 111.038 ms
Loss rate: 3.20%
-- Flow 3:
Average throughput: 22.59 Mbit/s
95th percentile per-packet one-way delay: 113.950 ms
Loss rate: 7.77%
```

Run 6: Report of Vivace-LTE — Data Link

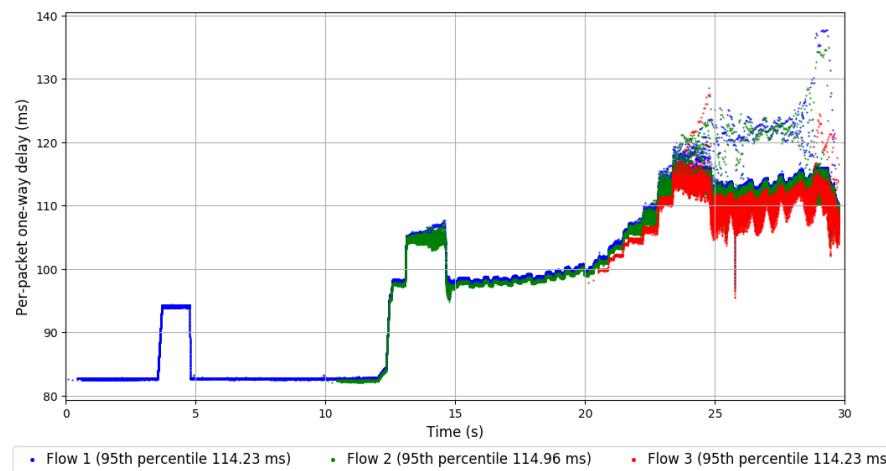
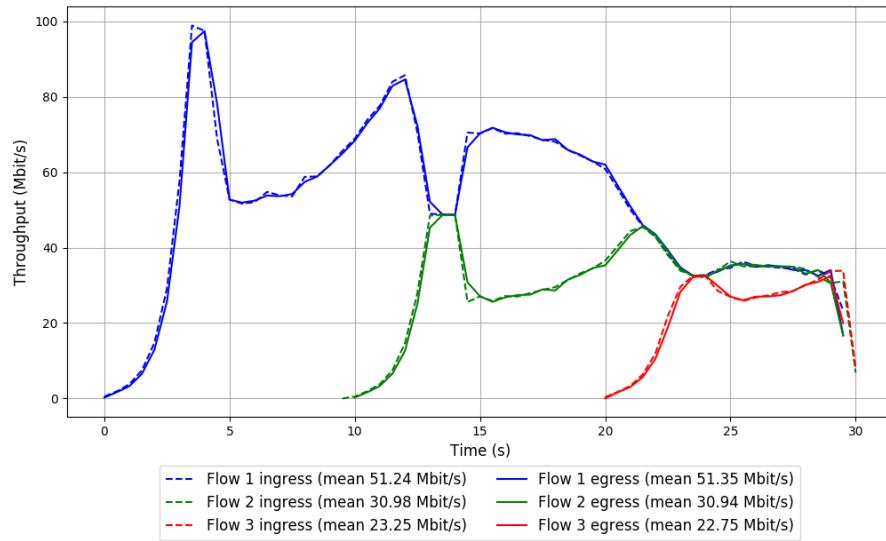


Run 7: Statistics of Vivace-LTE

```
Start at: 2018-02-13 15:54:24
End at: 2018-02-13 15:54:54
Local clock offset: -3.852 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2018-02-13 21:46:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.27 Mbit/s
95th percentile per-packet one-way delay: 114.481 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 51.35 Mbit/s
95th percentile per-packet one-way delay: 114.235 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 114.957 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 22.75 Mbit/s
95th percentile per-packet one-way delay: 114.231 ms
Loss rate: 6.47%
```

Run 7: Report of Vivace-LTE — Data Link

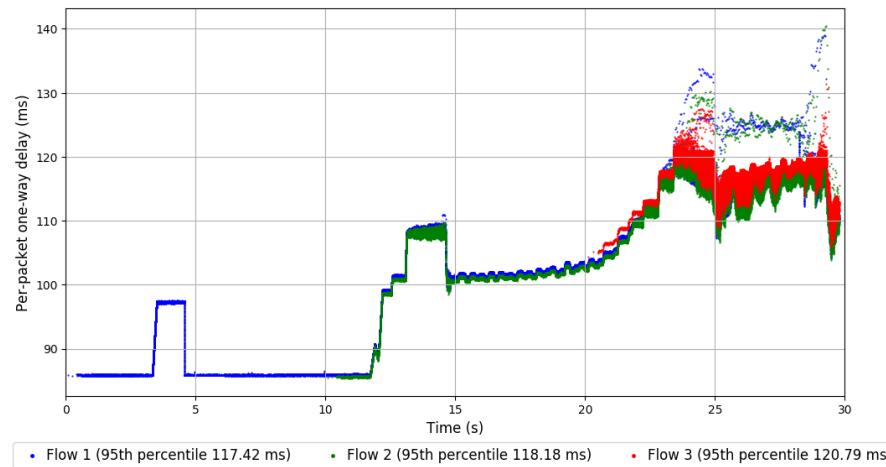
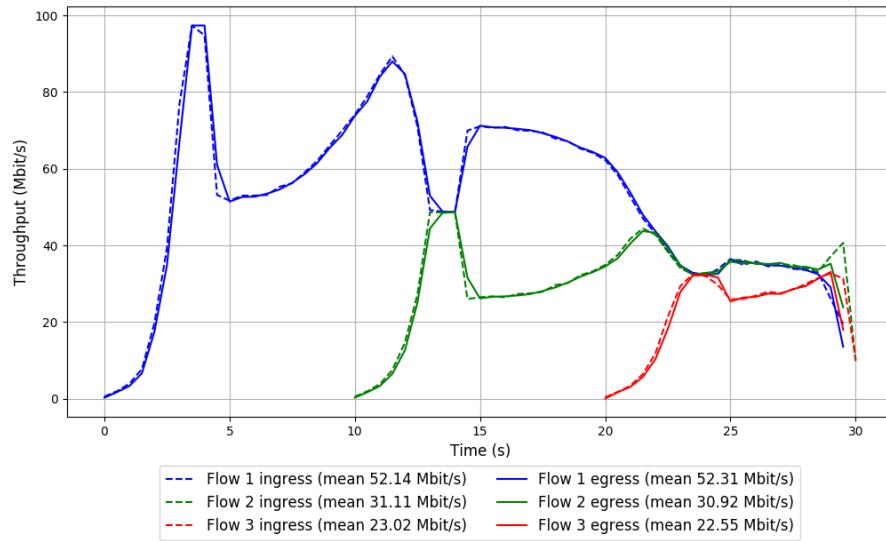


Run 8: Statistics of Vivace-LTE

```
Start at: 2018-02-13 16:18:08
End at: 2018-02-13 16:18:38
Local clock offset: -5.551 ms
Remote clock offset: -4.387 ms

# Below is generated by plot.py at 2018-02-13 21:46:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.15 Mbit/s
95th percentile per-packet one-way delay: 118.763 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 52.31 Mbit/s
95th percentile per-packet one-way delay: 117.420 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 30.92 Mbit/s
95th percentile per-packet one-way delay: 118.183 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 22.55 Mbit/s
95th percentile per-packet one-way delay: 120.787 ms
Loss rate: 6.58%
```

Run 8: Report of Vivace-LTE — Data Link

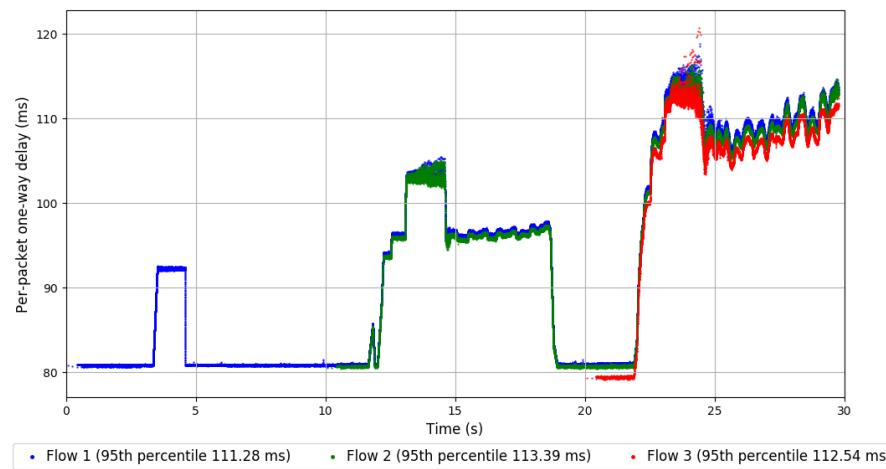
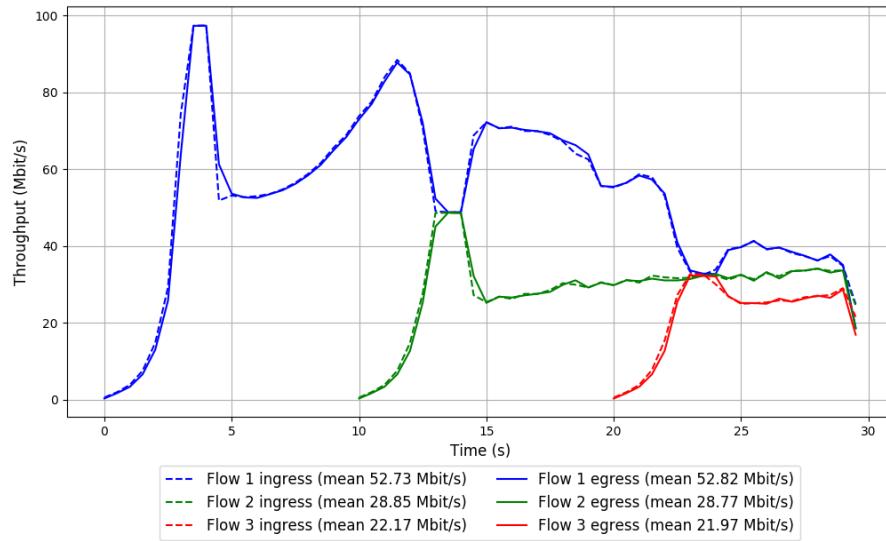


Run 9: Statistics of Vivace-LTE

```
Start at: 2018-02-13 16:41:49
End at: 2018-02-13 16:42:19
Local clock offset: -6.911 ms
Remote clock offset: 0.377 ms

# Below is generated by plot.py at 2018-02-13 21:46:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.06 Mbit/s
95th percentile per-packet one-way delay: 112.491 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 52.82 Mbit/s
95th percentile per-packet one-way delay: 111.281 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 28.77 Mbit/s
95th percentile per-packet one-way delay: 113.389 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 21.97 Mbit/s
95th percentile per-packet one-way delay: 112.541 ms
Loss rate: 2.58%
```

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

```
Start at: 2018-02-13 17:05:34
End at: 2018-02-13 17:06:04
Local clock offset: -8.126 ms
Remote clock offset: -4.556 ms

# Below is generated by plot.py at 2018-02-13 21:46:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.02 Mbit/s
95th percentile per-packet one-way delay: 117.772 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 52.18 Mbit/s
95th percentile per-packet one-way delay: 116.840 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 30.95 Mbit/s
95th percentile per-packet one-way delay: 117.327 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 22.46 Mbit/s
95th percentile per-packet one-way delay: 119.263 ms
Loss rate: 10.12%
```

Run 10: Report of Vivace-LTE — Data Link

