

Pantheon Report

Generated at 2018-01-27 06:33:52 (UTC).

Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).

Repeated the test of 15 congestion control schemes 10 times.

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

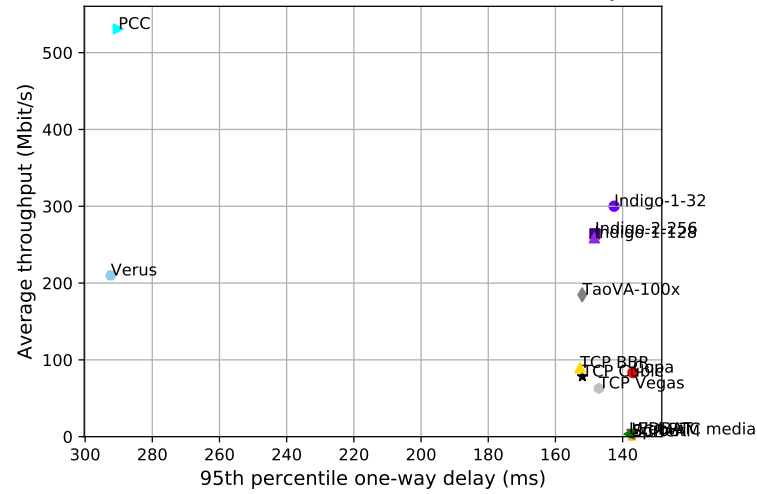
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

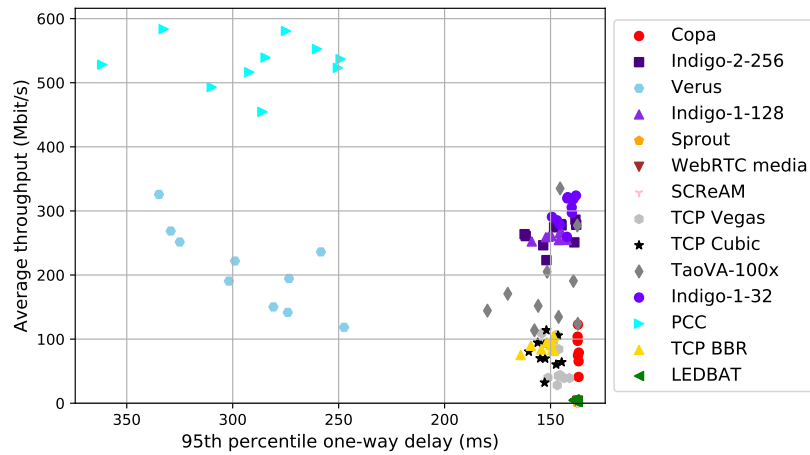
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
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 @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows



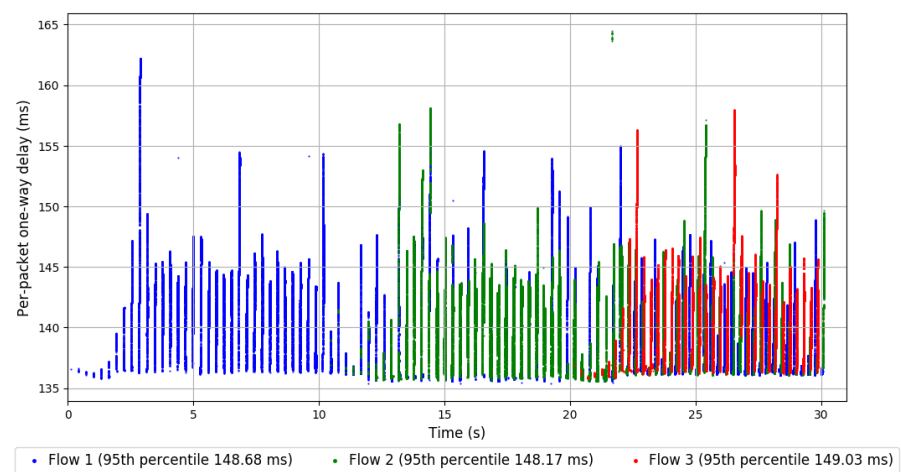
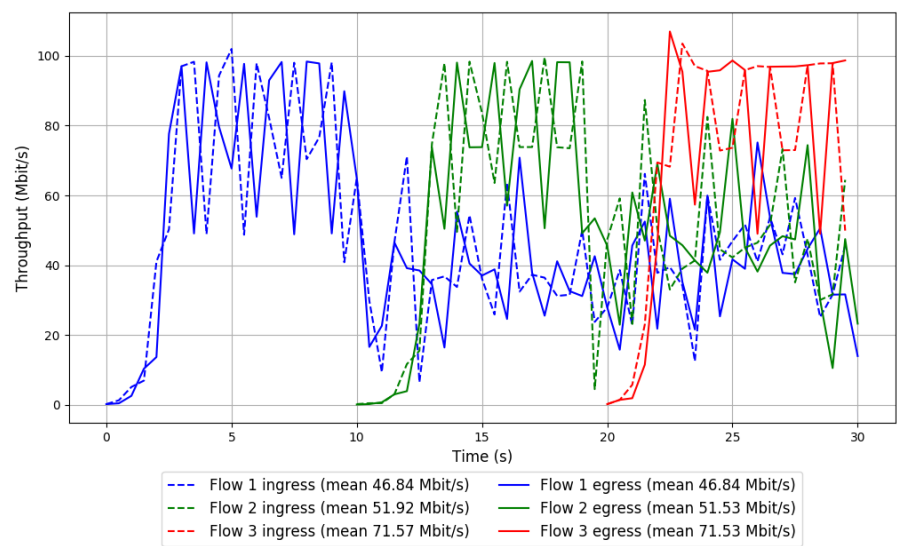
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	42.73	44.19	53.95	152.67	152.33	153.46	0.48	0.68	0.15
TCP Cubic	10	28.86	53.64	42.05	146.72	150.75	153.74	0.57	0.02	0.04
LEDBAT	10	2.05	1.60	0.98	138.16	137.98	137.60	0.29	0.31	0.23
PCC	10	367.76	183.58	124.96	299.14	247.86	244.19	6.77	4.68	5.98
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	10	0.22	0.22	0.22	136.70	136.87	136.96	0.00	0.00	0.00
WebRTC media	6	1.66	1.00	0.28	137.14	136.53	137.11	0.00	0.01	0.02
Sprout	10	0.39	0.46	0.46	137.22	137.13	137.16	0.00	0.00	0.05
TaoVA-100x	10	104.80	87.88	83.06	148.80	148.99	150.69	0.03	0.02	0.01
TCP Vegas	10	21.20	39.61	46.56	142.51	145.73	148.50	0.91	0.02	0.37
Verus	10	131.97	92.87	51.54	298.42	267.38	241.58	6.32	2.73	1.84
Copa	7	51.37	41.26	19.72	136.95	136.84	136.91	0.00	0.00	0.00
Indigo-2-256	10	139.99	134.43	112.25	147.11	151.85	150.20	0.15	0.10	0.09
Indigo-1-32	10	160.92	147.86	130.49	141.33	143.20	146.21	0.17	0.07	0.02
Indigo-1-128	10	136.10	131.02	114.52	147.47	147.35	152.45	0.10	0.02	0.02

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-27 02:28:21
End at: 2018-01-27 02:28:51

# Below is generated by plot.py at 2018-01-27 05:48:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.27 Mbit/s
95th percentile per-packet one-way delay: 148.522 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 46.84 Mbit/s
95th percentile per-packet one-way delay: 148.678 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.53 Mbit/s
95th percentile per-packet one-way delay: 148.169 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 71.53 Mbit/s
95th percentile per-packet one-way delay: 149.034 ms
Loss rate: 0.00%
```


Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-27 02:44:20

End at: 2018-01-27 02:44:50

Below is generated by plot.py at 2018-01-27 05:48:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.18 Mbit/s

95th percentile per-packet one-way delay: 151.740 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 151.940 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 59.45 Mbit/s

95th percentile per-packet one-way delay: 151.251 ms

Loss rate: 0.00%

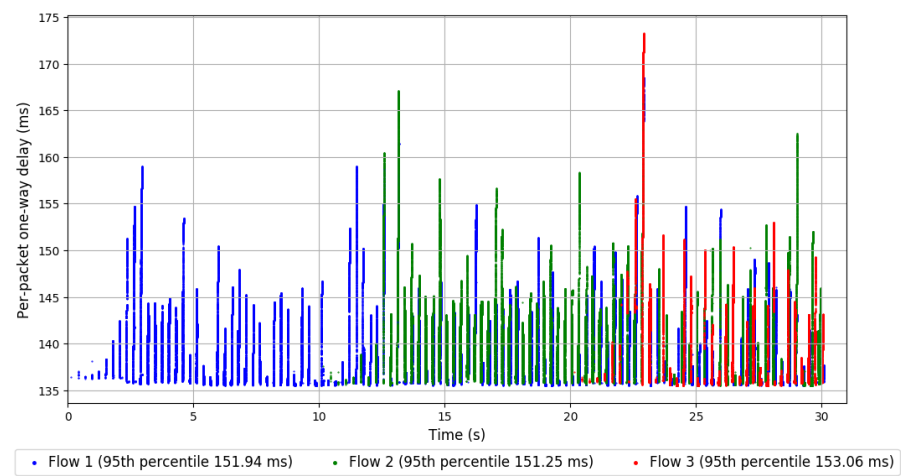
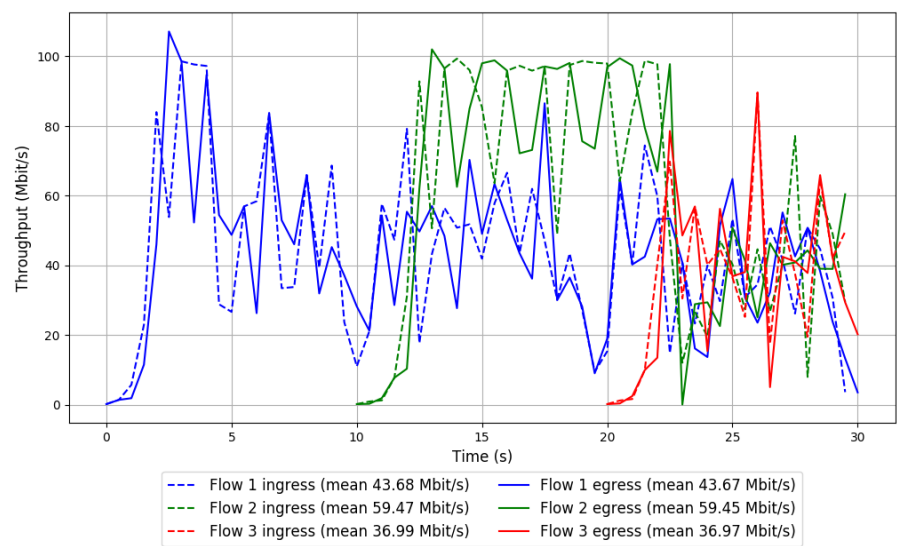
-- Flow 3:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 153.059 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-27 03:00:19

End at: 2018-01-27 03:00:49

Below is generated by plot.py at 2018-01-27 05:48:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.17 Mbit/s

95th percentile per-packet one-way delay: 149.209 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 38.20 Mbit/s

95th percentile per-packet one-way delay: 147.024 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 149.890 ms

Loss rate: 3.42%

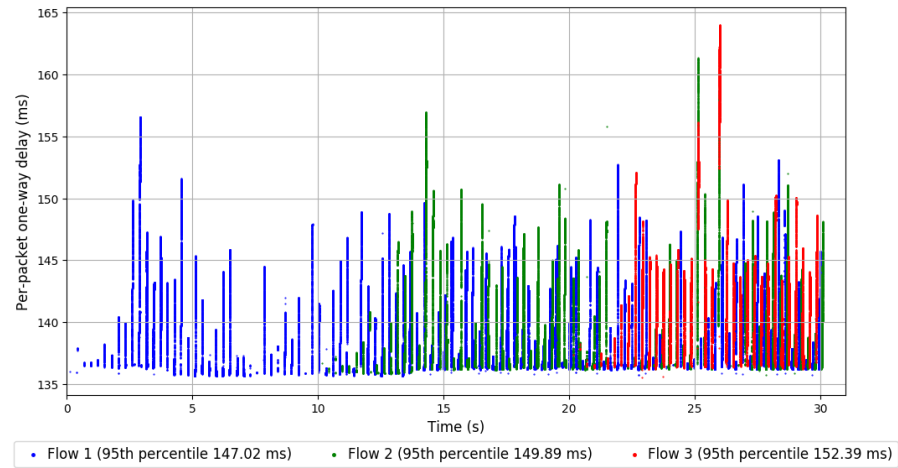
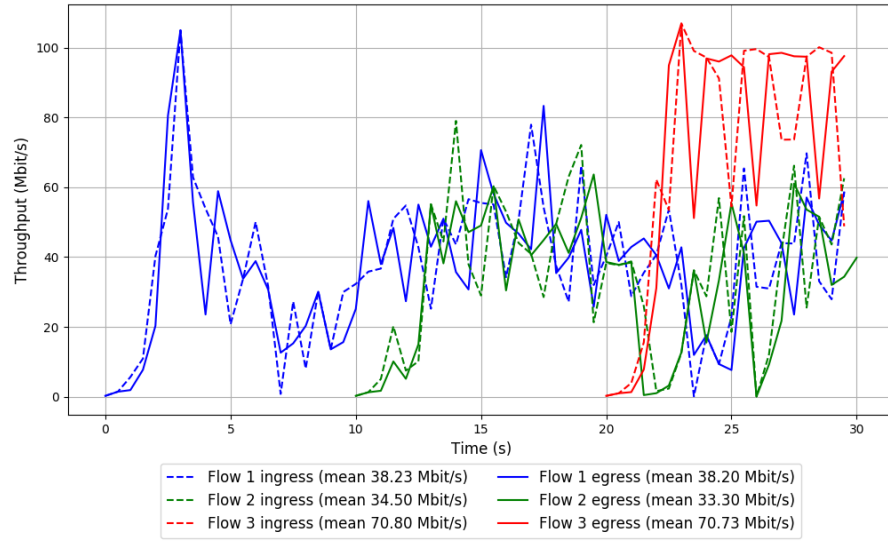
-- Flow 3:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 152.387 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-27 03:16:58

End at: 2018-01-27 03:17:28

Below is generated by plot.py at 2018-01-27 05:48:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 164.108 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 36.46 Mbit/s

95th percentile per-packet one-way delay: 166.398 ms

Loss rate: 1.57%

-- Flow 2:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 160.763 ms

Loss rate: 1.00%

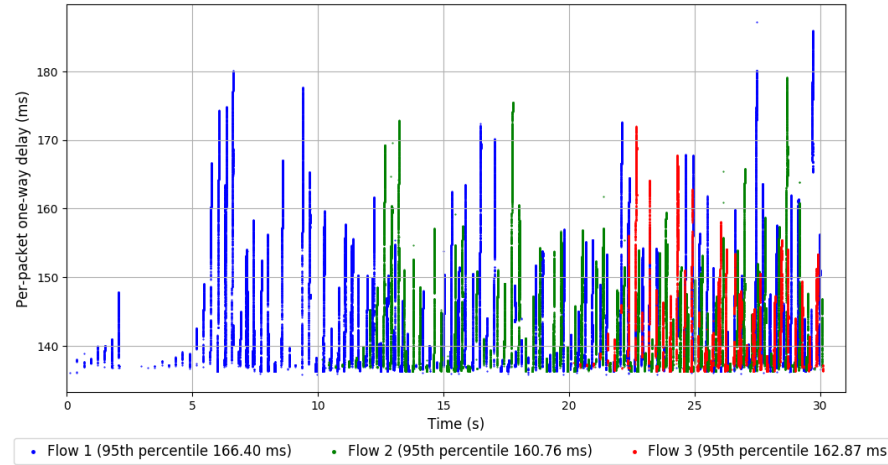
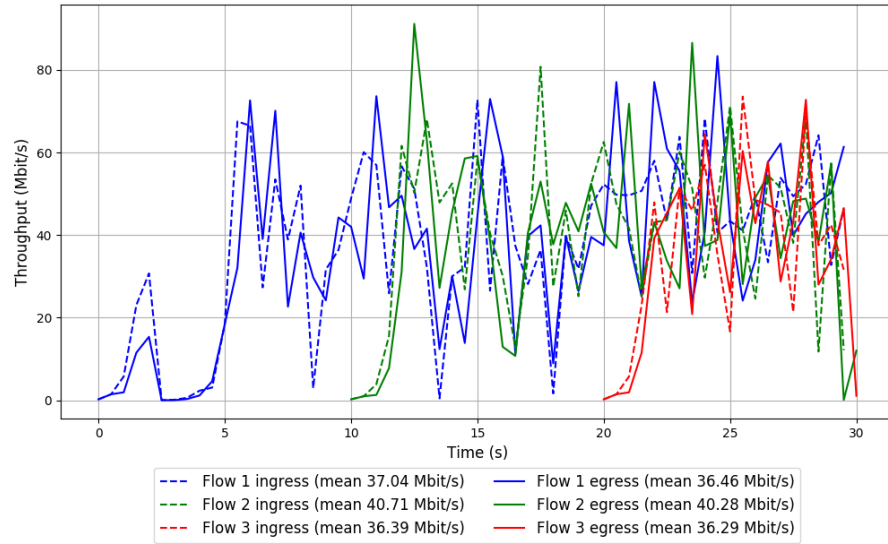
-- Flow 3:

Average throughput: 36.29 Mbit/s

95th percentile per-packet one-way delay: 162.870 ms

Loss rate: 0.28%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-27 03:32:51

End at: 2018-01-27 03:33:21

Below is generated by plot.py at 2018-01-27 05:48:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.82 Mbit/s

95th percentile per-packet one-way delay: 149.657 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 47.86 Mbit/s

95th percentile per-packet one-way delay: 149.640 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 40.50 Mbit/s

95th percentile per-packet one-way delay: 149.469 ms

Loss rate: 0.01%

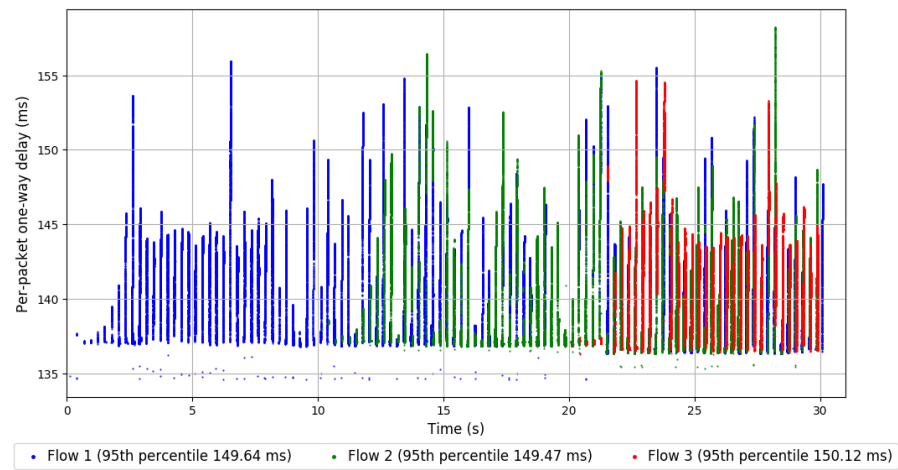
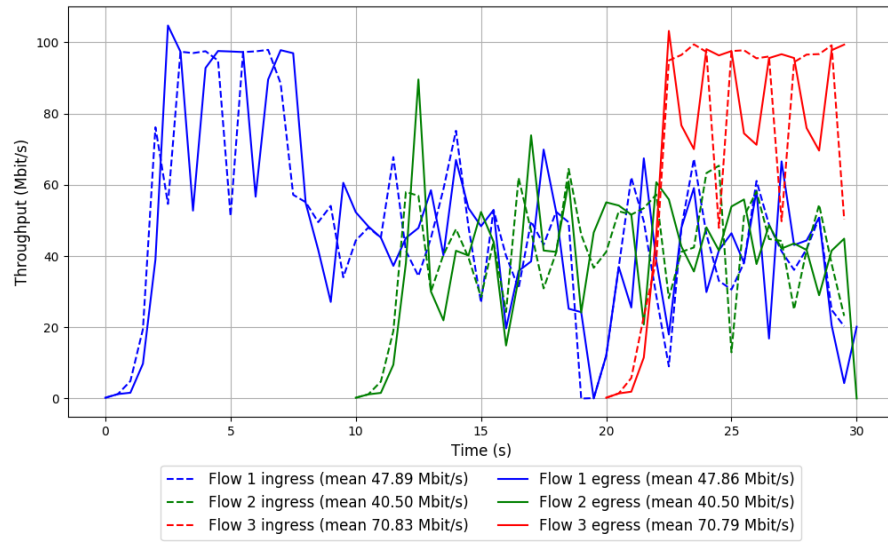
-- Flow 3:

Average throughput: 70.79 Mbit/s

95th percentile per-packet one-way delay: 150.125 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-27 03:49:06

End at: 2018-01-27 03:49:36

Below is generated by plot.py at 2018-01-27 05:48:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 154.317 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 41.13 Mbit/s

95th percentile per-packet one-way delay: 154.093 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.62 Mbit/s

95th percentile per-packet one-way delay: 156.333 ms

Loss rate: 0.03%

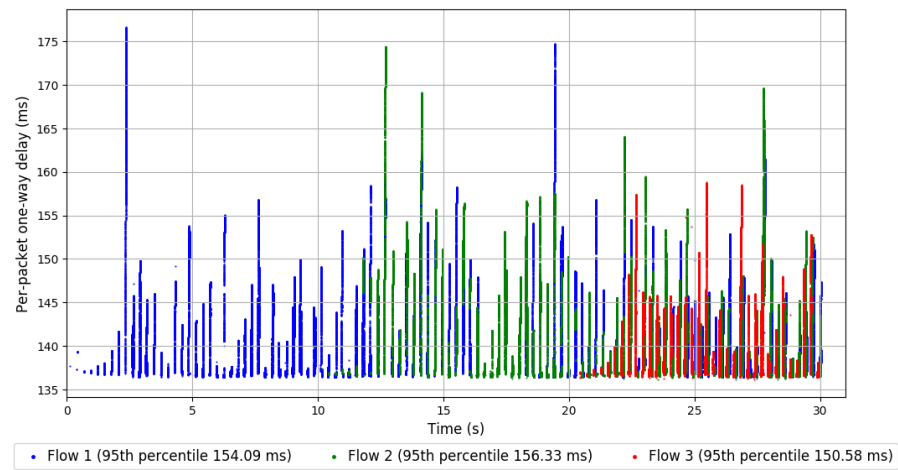
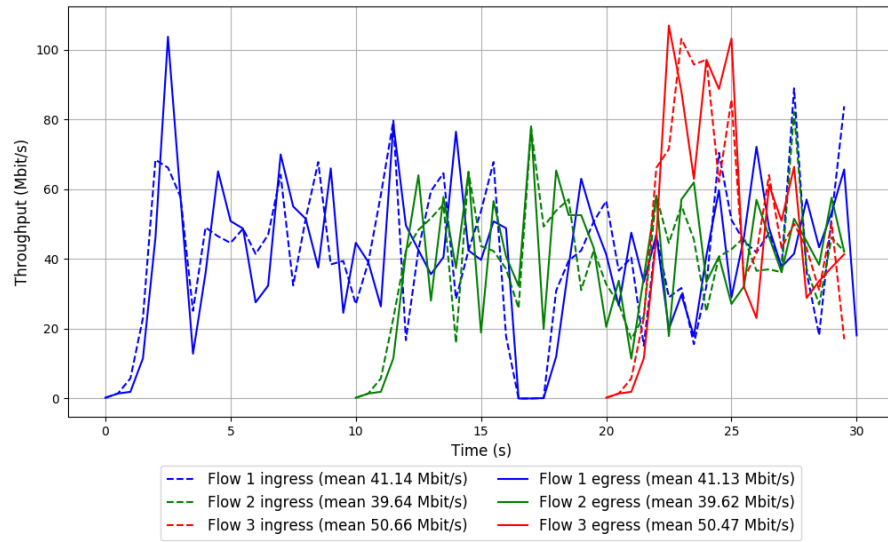
-- Flow 3:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 150.577 ms

Loss rate: 0.36%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-27 04:05:20

End at: 2018-01-27 04:05:50

Below is generated by plot.py at 2018-01-27 05:48:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.40 Mbit/s

95th percentile per-packet one-way delay: 149.937 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 39.86 Mbit/s

95th percentile per-packet one-way delay: 149.053 ms

Loss rate: 2.63%

-- Flow 2:

Average throughput: 55.32 Mbit/s

95th percentile per-packet one-way delay: 149.343 ms

Loss rate: 0.63%

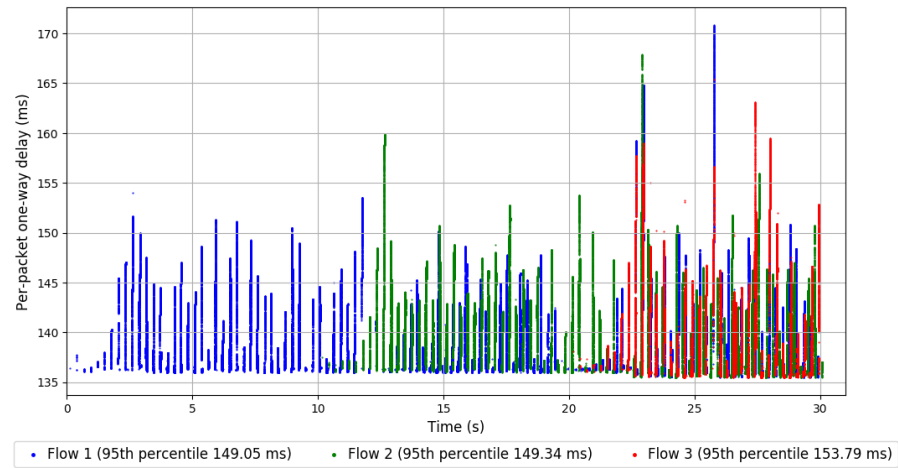
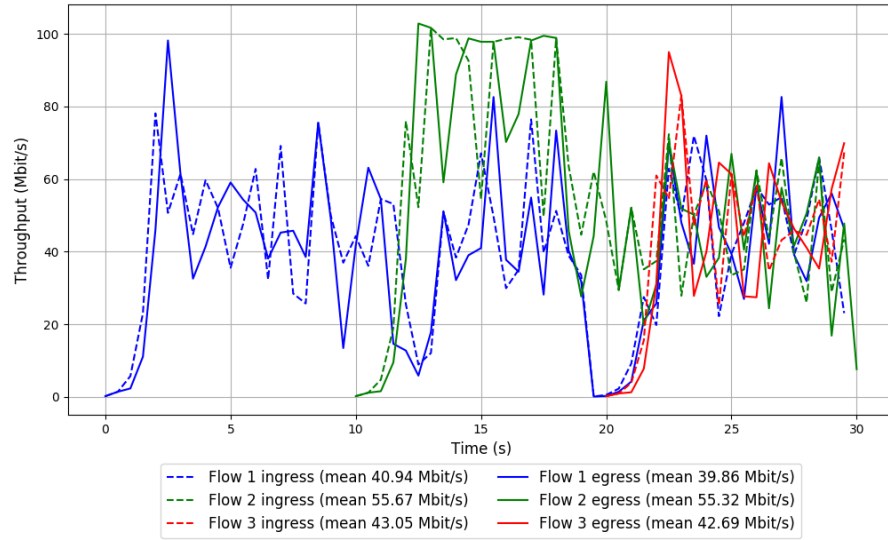
-- Flow 3:

Average throughput: 42.69 Mbit/s

95th percentile per-packet one-way delay: 153.789 ms

Loss rate: 0.81%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-27 04:21:24

End at: 2018-01-27 04:21:54

Below is generated by plot.py at 2018-01-27 05:48:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.63 Mbit/s

95th percentile per-packet one-way delay: 159.280 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 45.62 Mbit/s

95th percentile per-packet one-way delay: 160.731 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 40.56 Mbit/s

95th percentile per-packet one-way delay: 156.728 ms

Loss rate: 0.84%

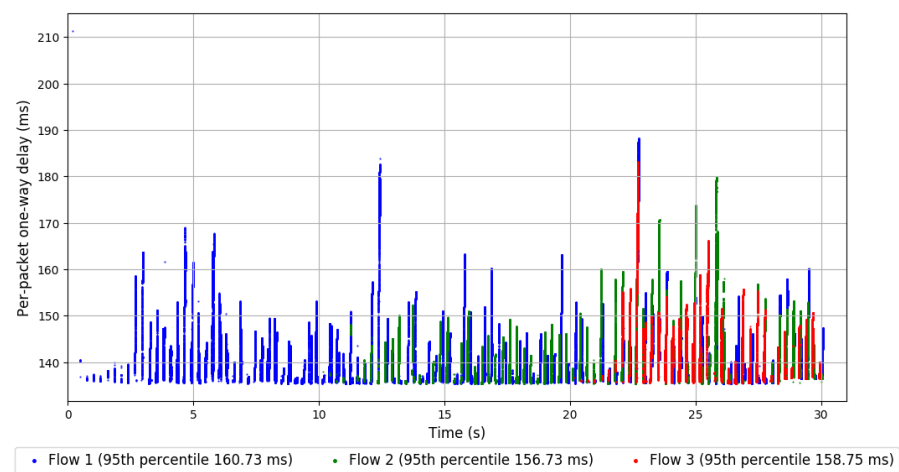
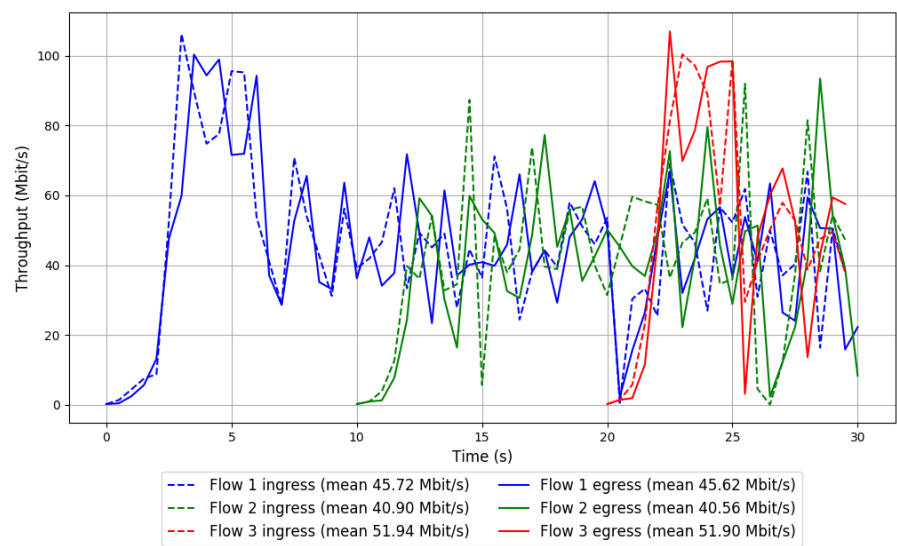
-- Flow 3:

Average throughput: 51.90 Mbit/s

95th percentile per-packet one-way delay: 158.749 ms

Loss rate: 0.03%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-27 04:37:50

End at: 2018-01-27 04:38:20

Below is generated by plot.py at 2018-01-27 05:49:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.72 Mbit/s

95th percentile per-packet one-way delay: 148.327 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.04 Mbit/s

95th percentile per-packet one-way delay: 147.845 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.19 Mbit/s

95th percentile per-packet one-way delay: 147.877 ms

Loss rate: 0.04%

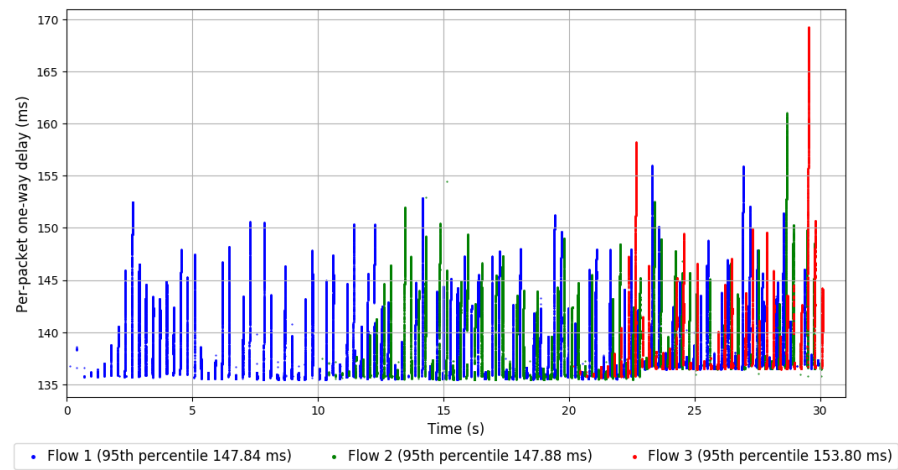
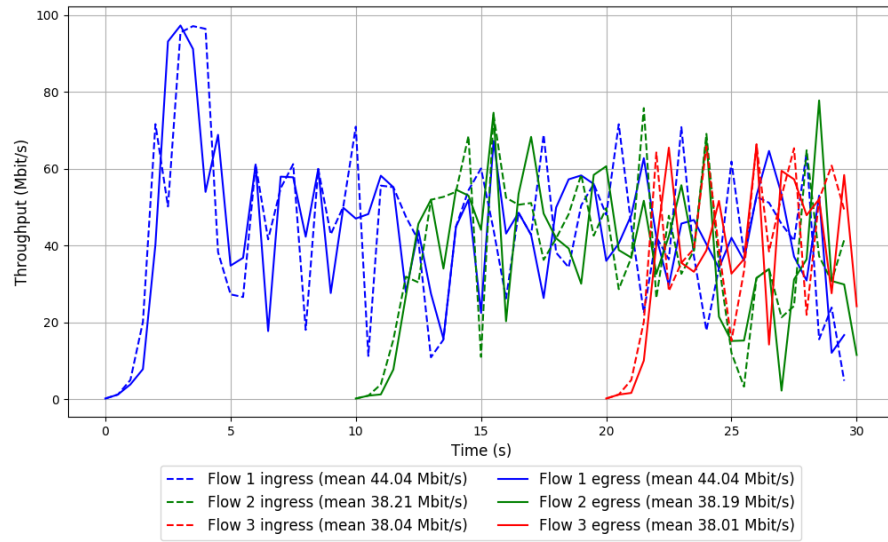
-- Flow 3:

Average throughput: 38.01 Mbit/s

95th percentile per-packet one-way delay: 153.798 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-27 04:54:01

End at: 2018-01-27 04:54:31

Below is generated by plot.py at 2018-01-27 05:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.93 Mbit/s

95th percentile per-packet one-way delay: 151.806 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 151.344 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 43.11 Mbit/s

95th percentile per-packet one-way delay: 153.441 ms

Loss rate: 0.05%

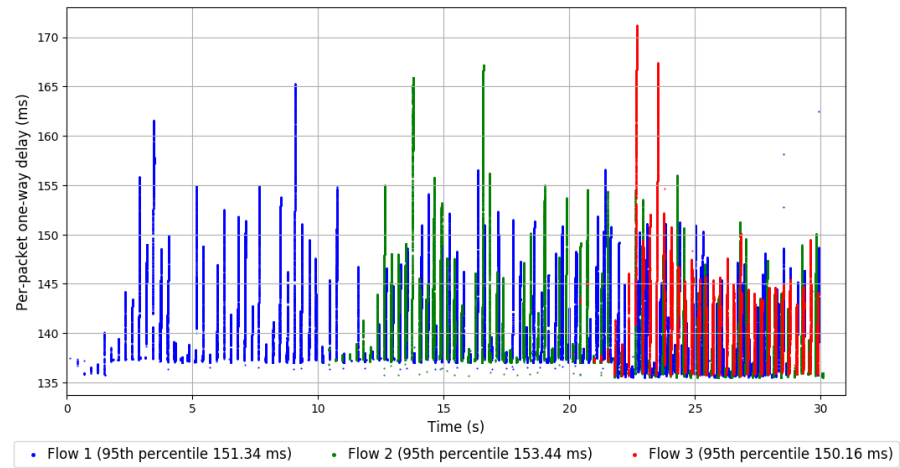
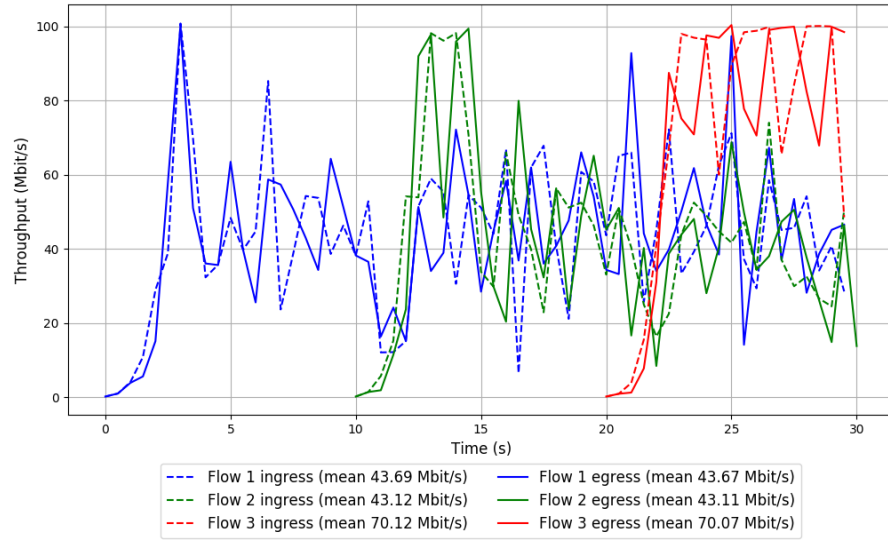
-- Flow 3:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 150.165 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-27 02:25:06

End at: 2018-01-27 02:25:36

Below is generated by plot.py at 2018-01-27 05:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 80.52 Mbit/s

95th percentile per-packet one-way delay: 160.244 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 156.481 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 53.07 Mbit/s

95th percentile per-packet one-way delay: 164.184 ms

Loss rate: 0.04%

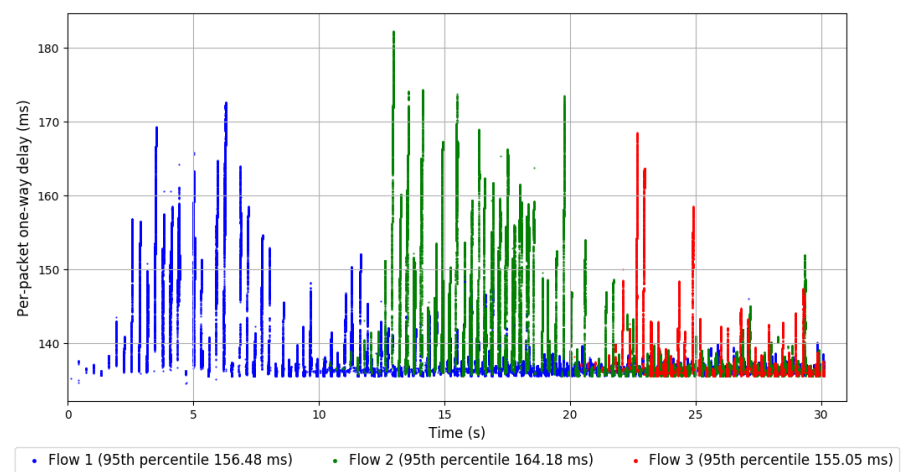
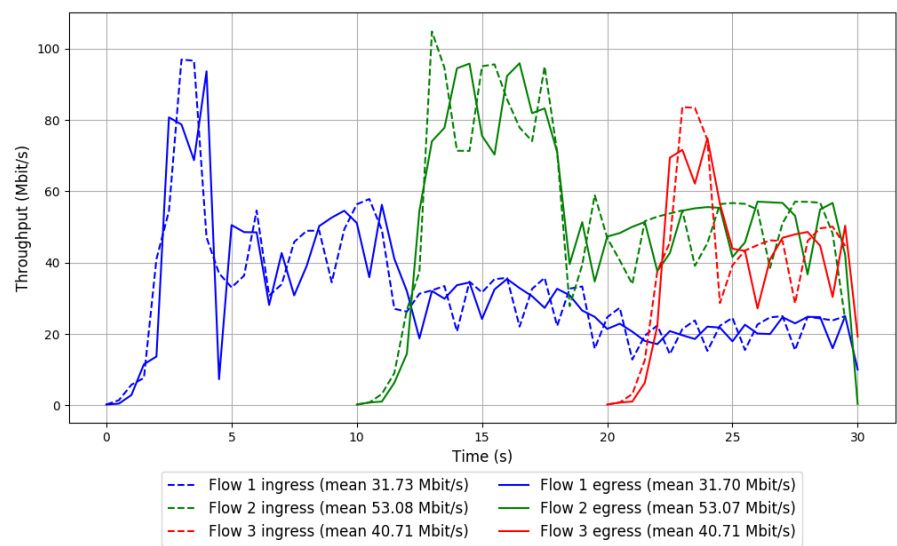
-- Flow 3:

Average throughput: 40.71 Mbit/s

95th percentile per-packet one-way delay: 155.050 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-27 02:40:59

End at: 2018-01-27 02:41:29

Below is generated by plot.py at 2018-01-27 05:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.34 Mbit/s

95th percentile per-packet one-way delay: 147.378 ms

Loss rate: 0.56%

-- Flow 1:

Average throughput: 13.87 Mbit/s

95th percentile per-packet one-way delay: 141.041 ms

Loss rate: 2.35%

-- Flow 2:

Average throughput: 50.58 Mbit/s

95th percentile per-packet one-way delay: 147.740 ms

Loss rate: 0.01%

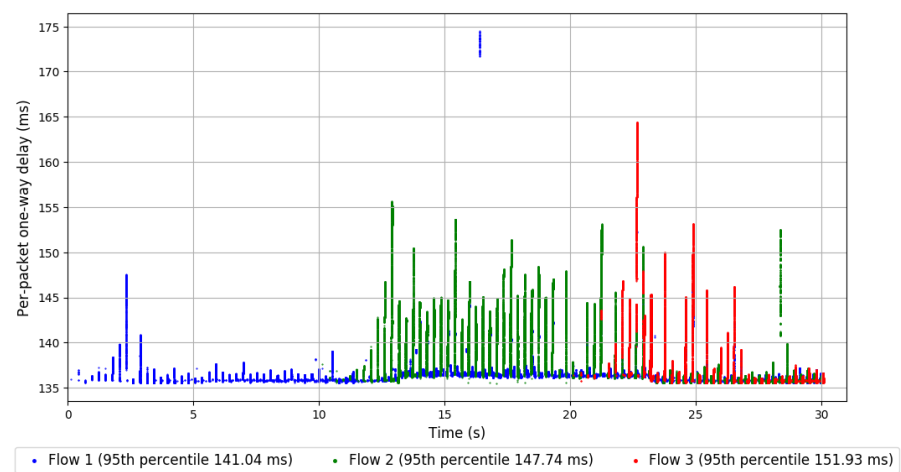
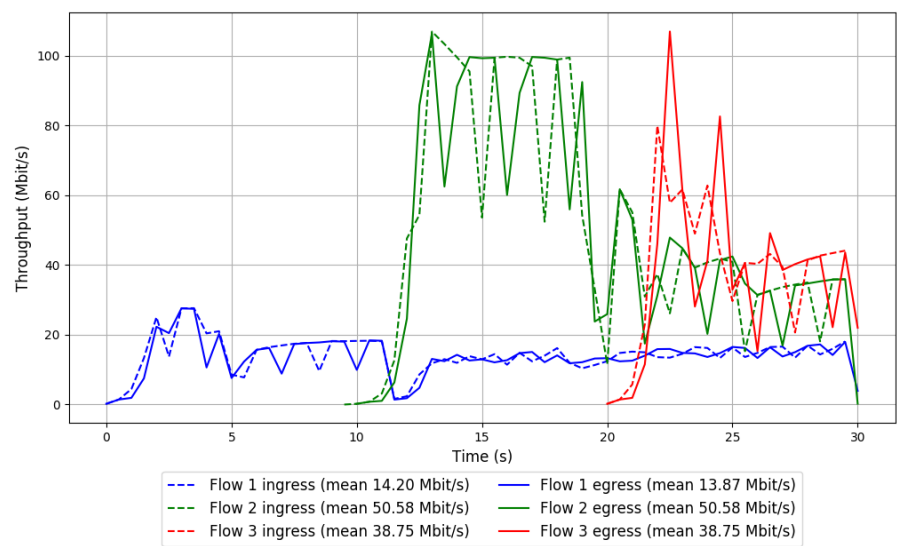
-- Flow 3:

Average throughput: 38.75 Mbit/s

95th percentile per-packet one-way delay: 151.934 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-27 02:56:54

End at: 2018-01-27 02:57:24

Below is generated by plot.py at 2018-01-27 05:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.01 Mbit/s

95th percentile per-packet one-way delay: 144.760 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 141.460 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 50.71 Mbit/s

95th percentile per-packet one-way delay: 144.741 ms

Loss rate: 0.00%

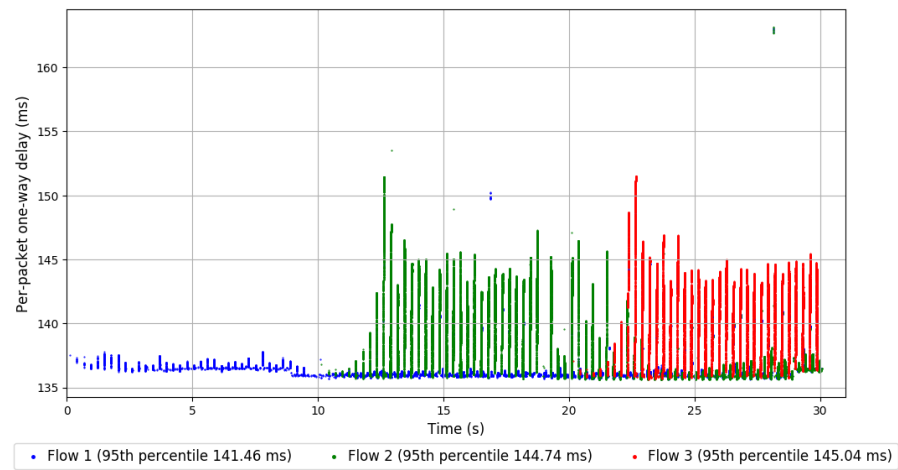
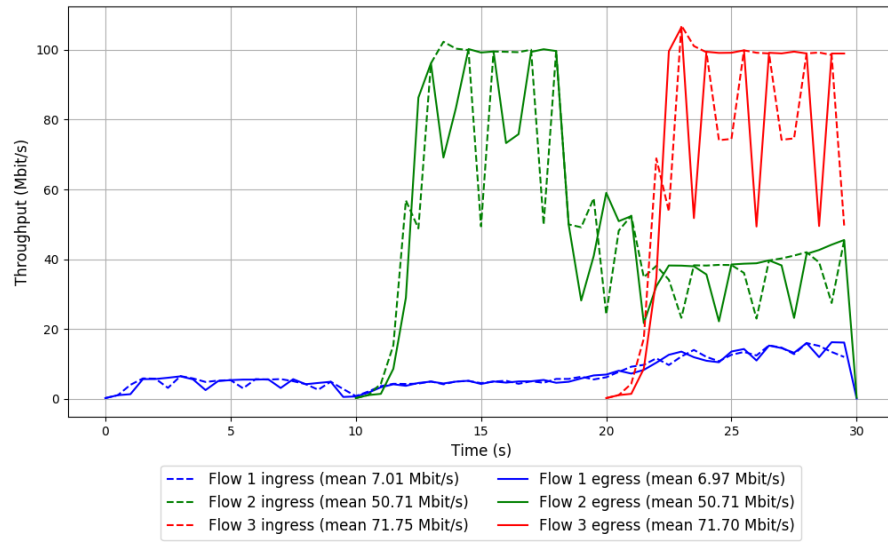
-- Flow 3:

Average throughput: 71.70 Mbit/s

95th percentile per-packet one-way delay: 145.036 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-27 03:13:39

End at: 2018-01-27 03:14:09

Below is generated by plot.py at 2018-01-27 05:50:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.02 Mbit/s

95th percentile per-packet one-way delay: 154.860 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 147.036 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 14.03 Mbit/s

95th percentile per-packet one-way delay: 141.531 ms

Loss rate: 0.00%

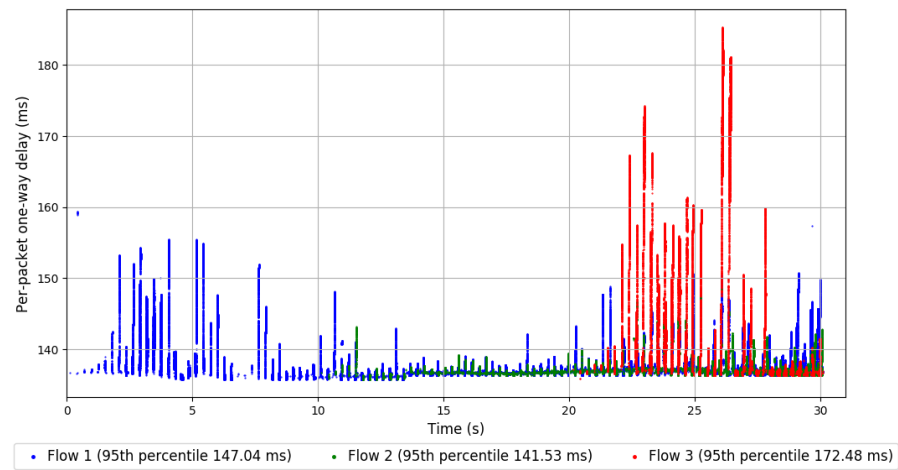
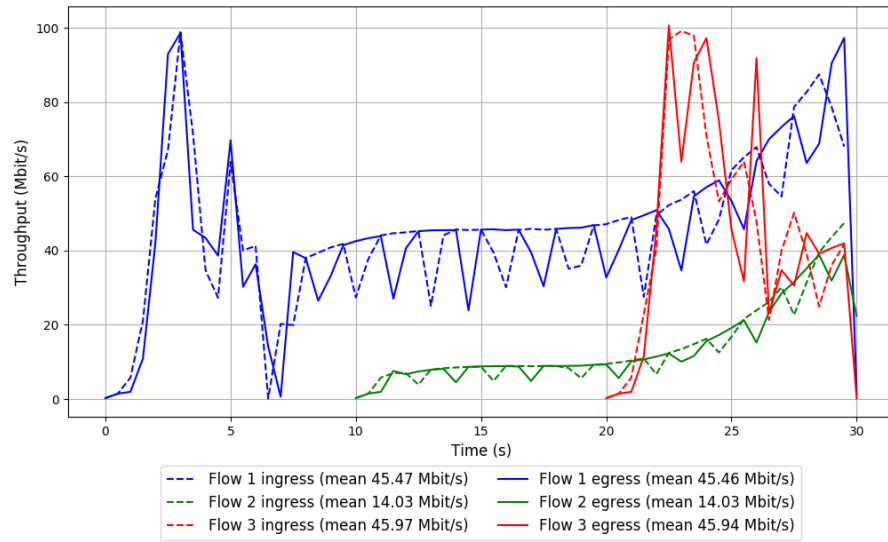
-- Flow 3:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 172.479 ms

Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-27 03:29:28

End at: 2018-01-27 03:29:58

Below is generated by plot.py at 2018-01-27 05:50:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.63 Mbit/s

95th percentile per-packet one-way delay: 146.430 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 145.814 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 81.05 Mbit/s

95th percentile per-packet one-way delay: 147.408 ms

Loss rate: 0.00%

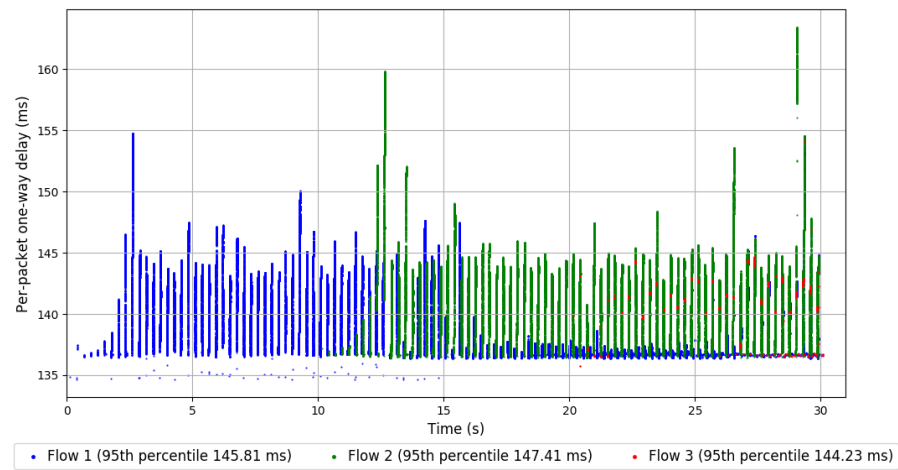
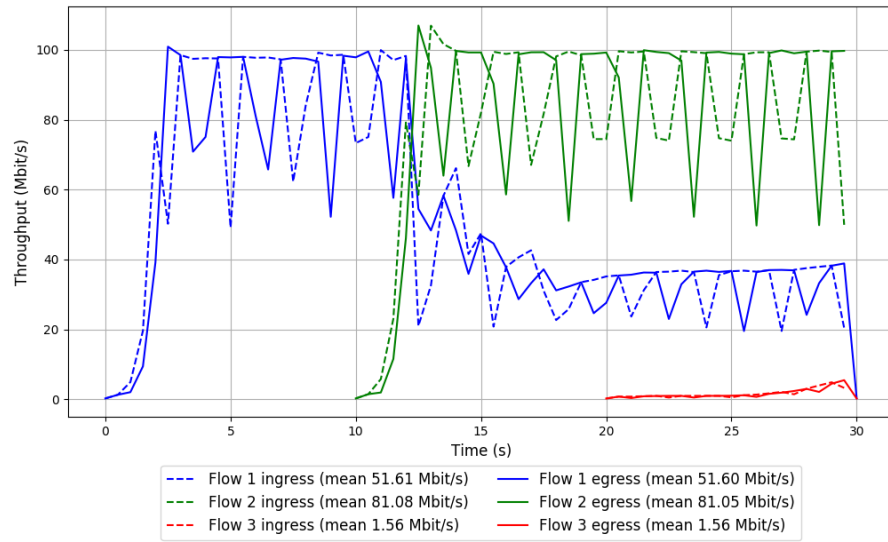
-- Flow 3:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 144.230 ms

Loss rate: 0.08%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-27 03:45:42

End at: 2018-01-27 03:46:12

Below is generated by plot.py at 2018-01-27 05:50:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.92 Mbit/s

95th percentile per-packet one-way delay: 151.947 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 53.35 Mbit/s

95th percentile per-packet one-way delay: 150.401 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 62.79 Mbit/s

95th percentile per-packet one-way delay: 152.939 ms

Loss rate: 0.03%

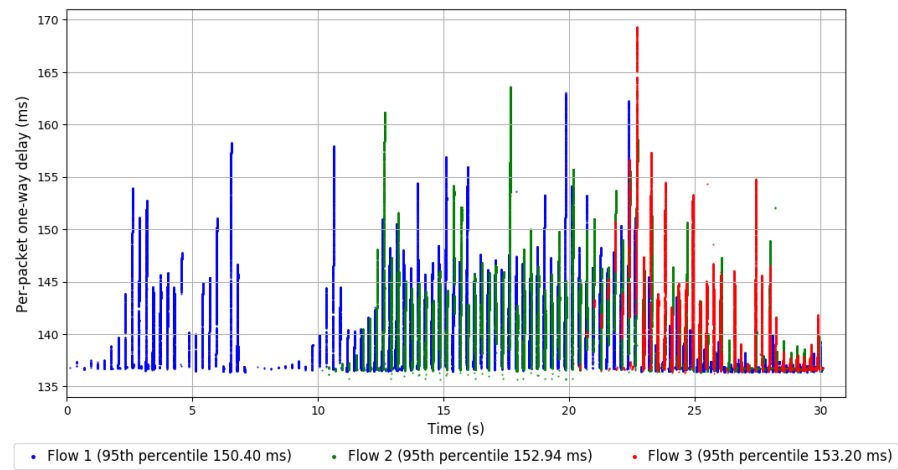
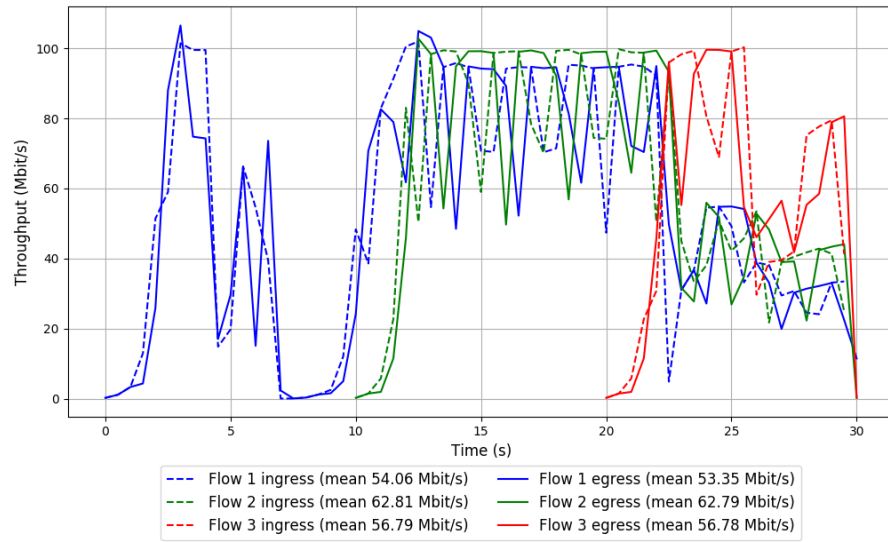
-- Flow 3:

Average throughput: 56.78 Mbit/s

95th percentile per-packet one-way delay: 153.198 ms

Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-27 04:01:53

End at: 2018-01-27 04:02:23

Below is generated by plot.py at 2018-01-27 05:51:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.10 Mbit/s

95th percentile per-packet one-way delay: 152.901 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 146.150 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 79.01 Mbit/s

95th percentile per-packet one-way delay: 154.102 ms

Loss rate: 0.01%

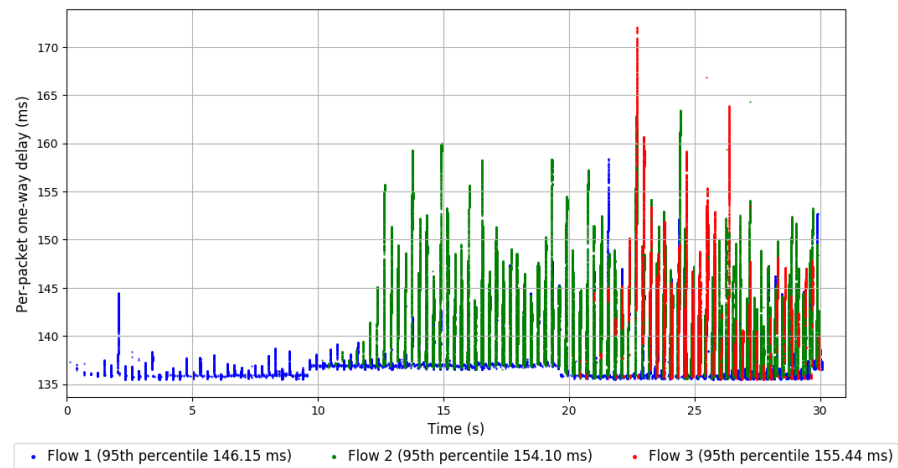
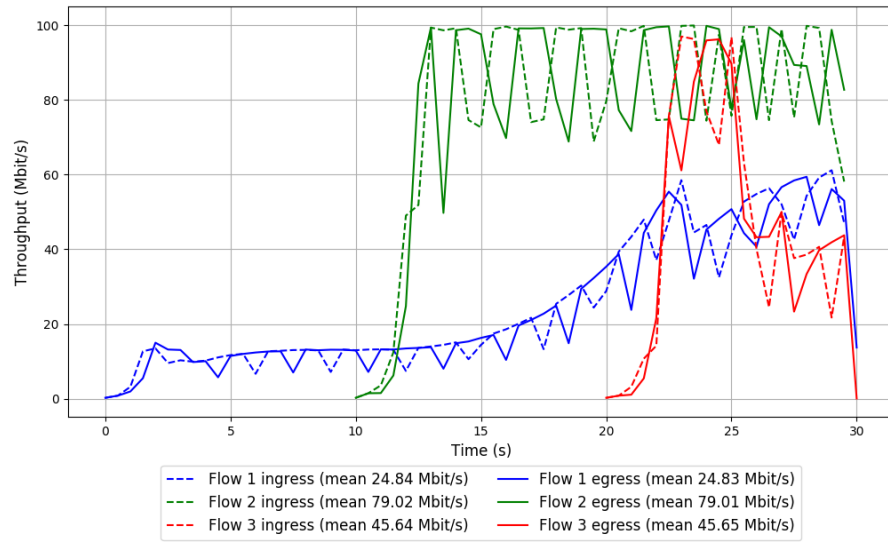
-- Flow 3:

Average throughput: 45.65 Mbit/s

95th percentile per-packet one-way delay: 155.439 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-27 04:18:02

End at: 2018-01-27 04:18:32

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.50 Mbit/s

95th percentile per-packet one-way delay: 156.044 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 150.847 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 79.92 Mbit/s

95th percentile per-packet one-way delay: 157.490 ms

Loss rate: 0.00%

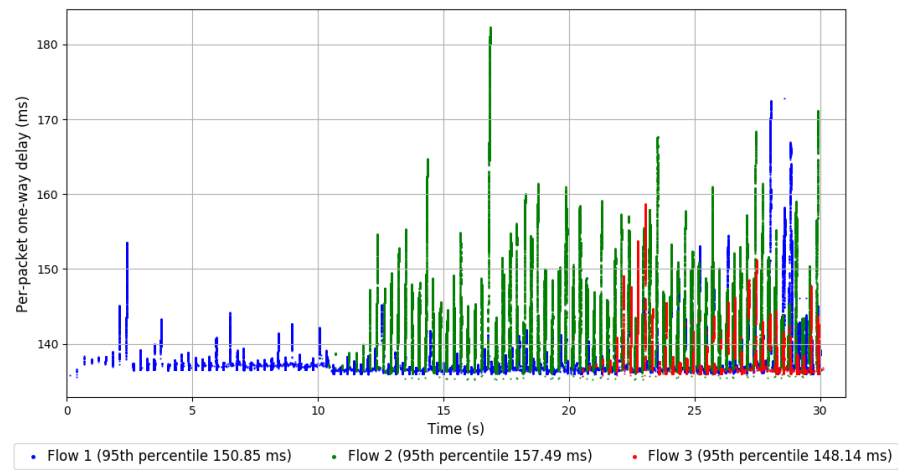
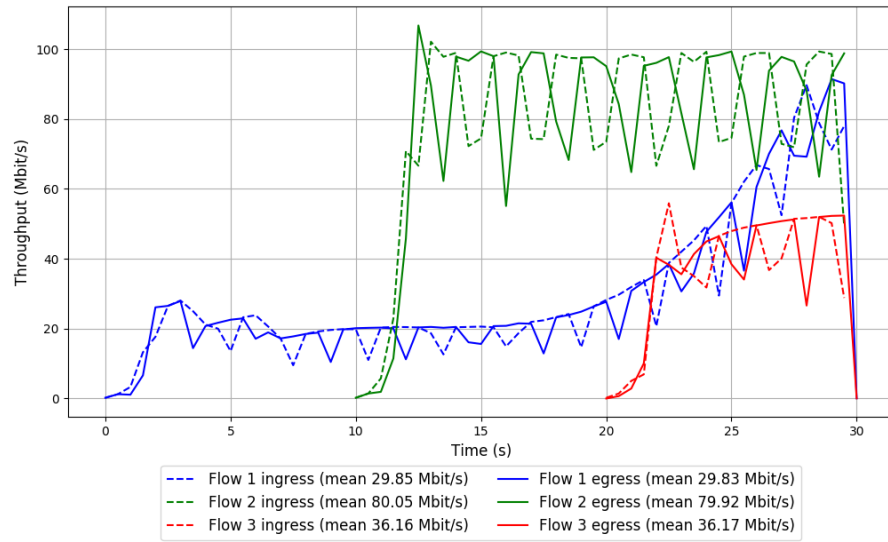
-- Flow 3:

Average throughput: 36.17 Mbit/s

95th percentile per-packet one-way delay: 148.144 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-27 04:34:25

End at: 2018-01-27 04:34:55

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 152.567 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 25.90 Mbit/s

95th percentile per-packet one-way delay: 149.689 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 46.93 Mbit/s

95th percentile per-packet one-way delay: 153.123 ms

Loss rate: 0.07%

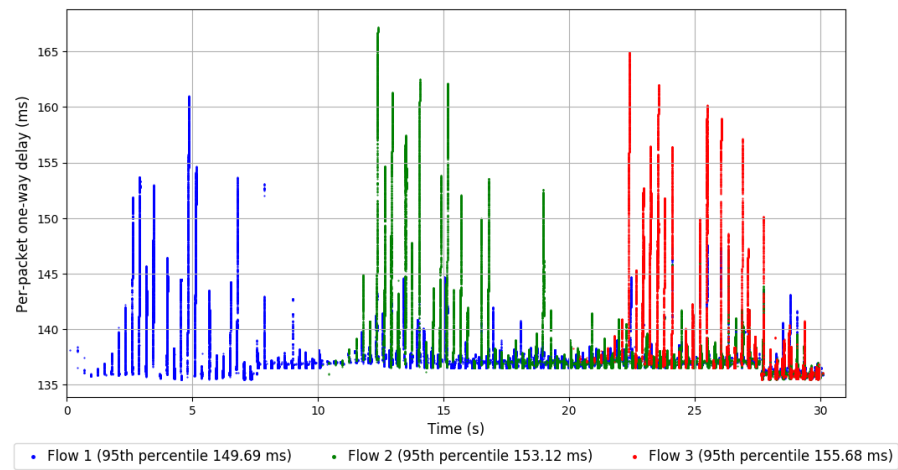
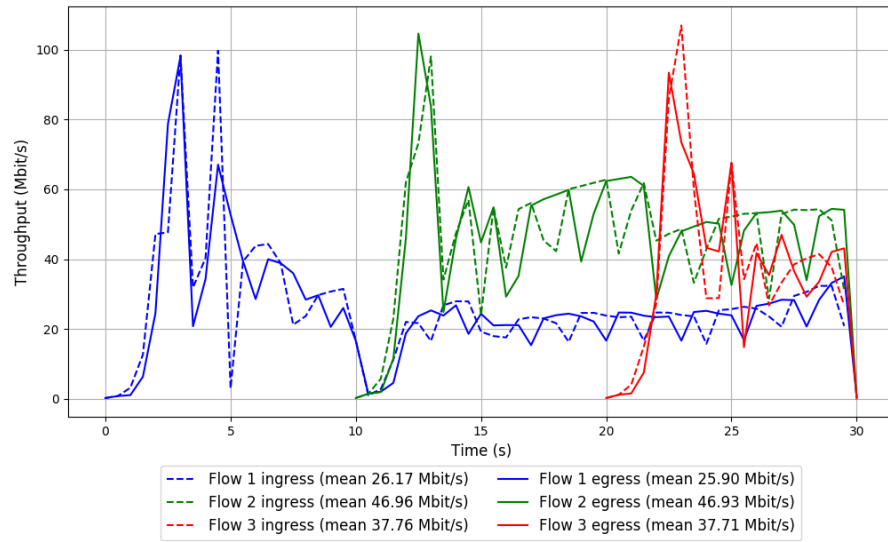
-- Flow 3:

Average throughput: 37.71 Mbit/s

95th percentile per-packet one-way delay: 155.676 ms

Loss rate: 0.15%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-27 04:50:41

End at: 2018-01-27 04:51:11

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 152.791 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 5.08 Mbit/s

95th percentile per-packet one-way delay: 138.260 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 18.31 Mbit/s

95th percentile per-packet one-way delay: 144.273 ms

Loss rate: 0.00%

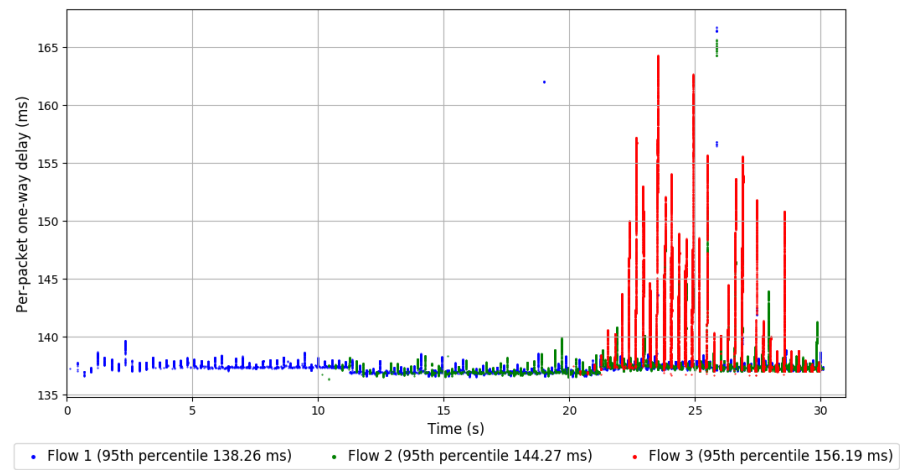
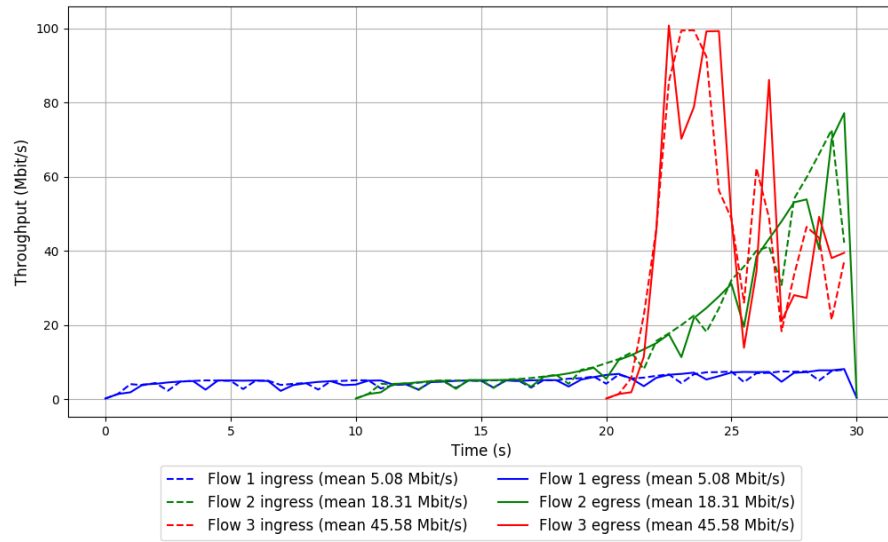
-- Flow 3:

Average throughput: 45.58 Mbit/s

95th percentile per-packet one-way delay: 156.190 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

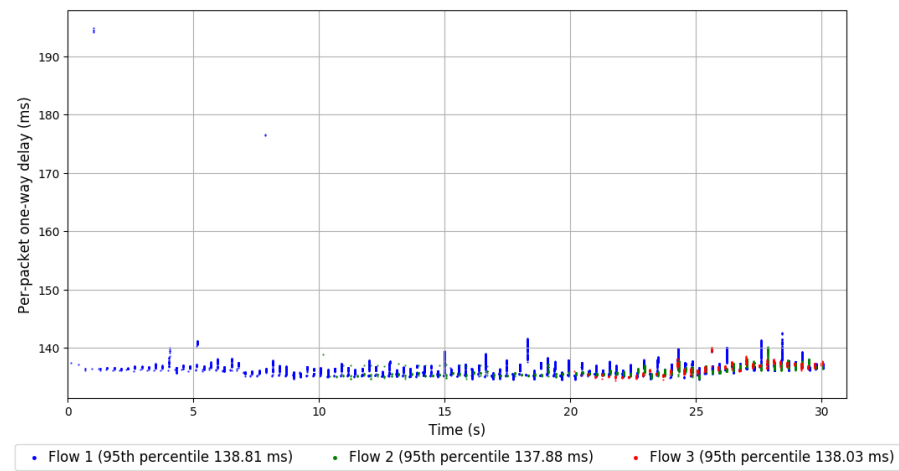
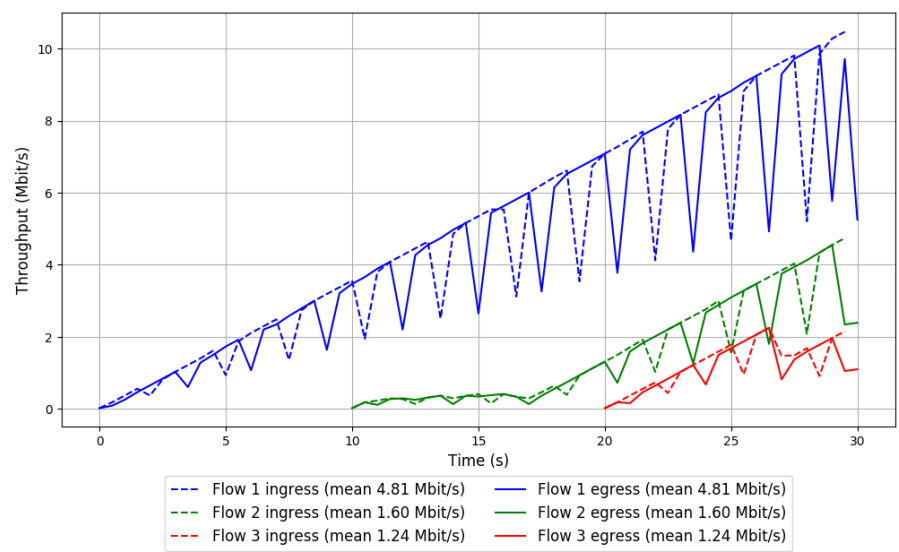


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-27 02:24:16
End at: 2018-01-27 02:24:46

# Below is generated by plot.py at 2018-01-27 05:51:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 138.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 138.810 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 137.883 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 138.034 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

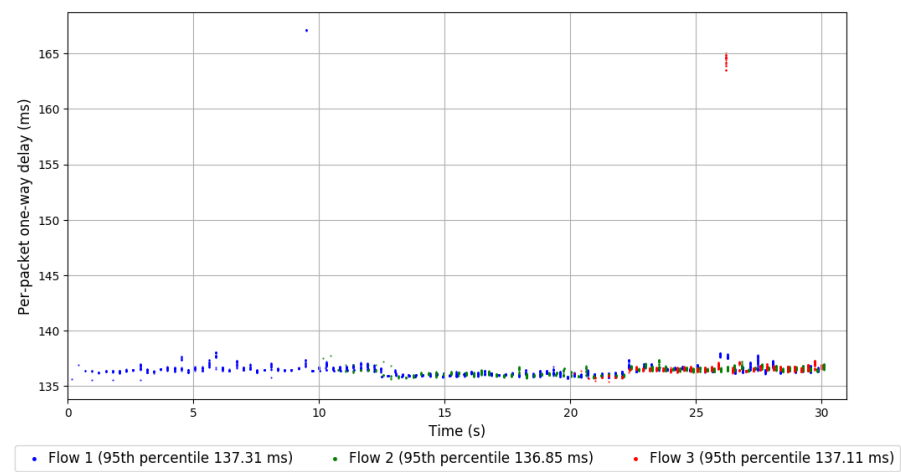
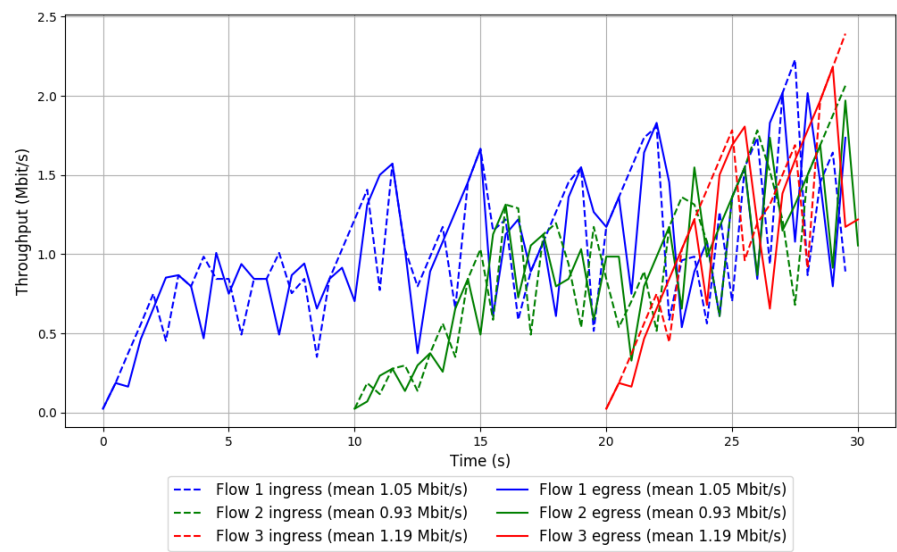


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-27 02:40:10
End at: 2018-01-27 02:40:40

# Below is generated by plot.py at 2018-01-27 05:51:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 137.084 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 137.315 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 136.849 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 137.114 ms
Loss rate: 0.30%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-27 02:56:04

End at: 2018-01-27 02:56:34

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 137.170 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 137.363 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 136.996 ms

Loss rate: 0.00%

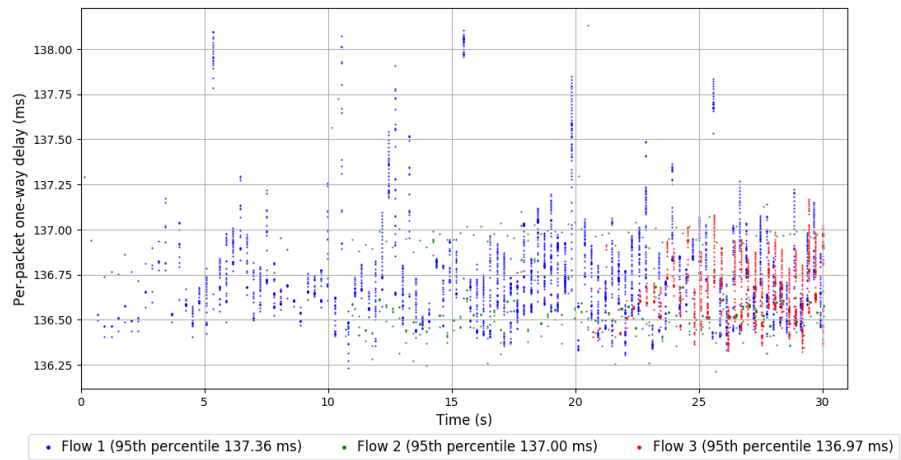
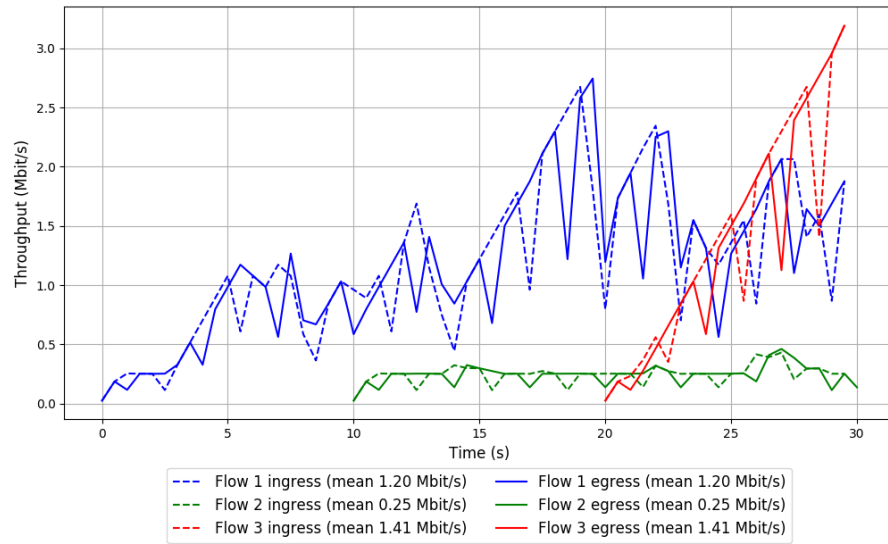
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 136.965 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-27 03:12:50

End at: 2018-01-27 03:13:20

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 138.026 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 138.078 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 137.734 ms

Loss rate: 1.45%

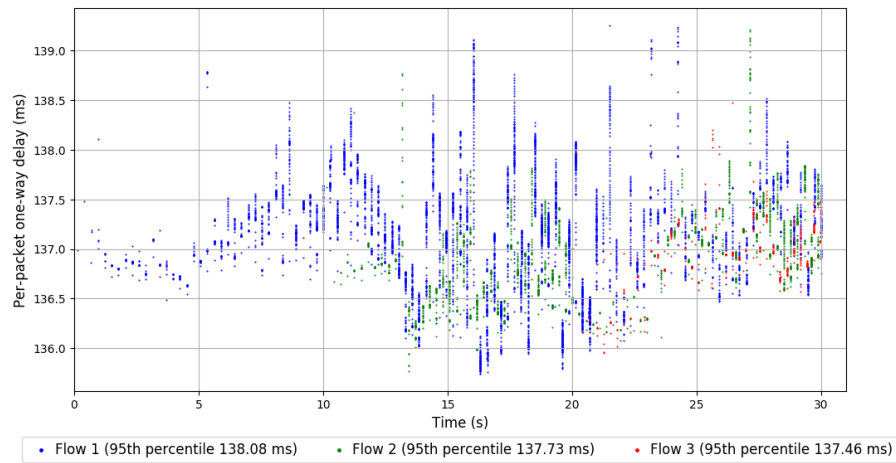
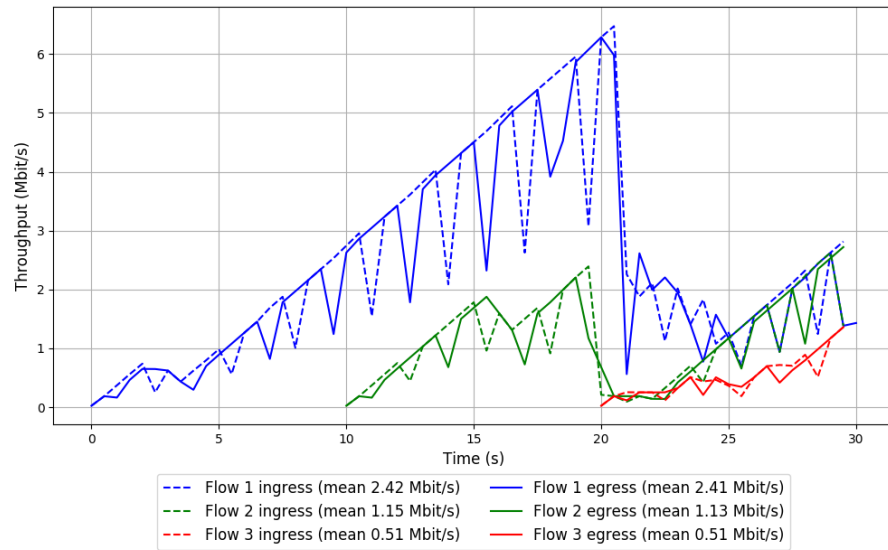
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 137.458 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-27 03:28:38

End at: 2018-01-27 03:29:08

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 137.855 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 137.901 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 137.739 ms

Loss rate: 0.00%

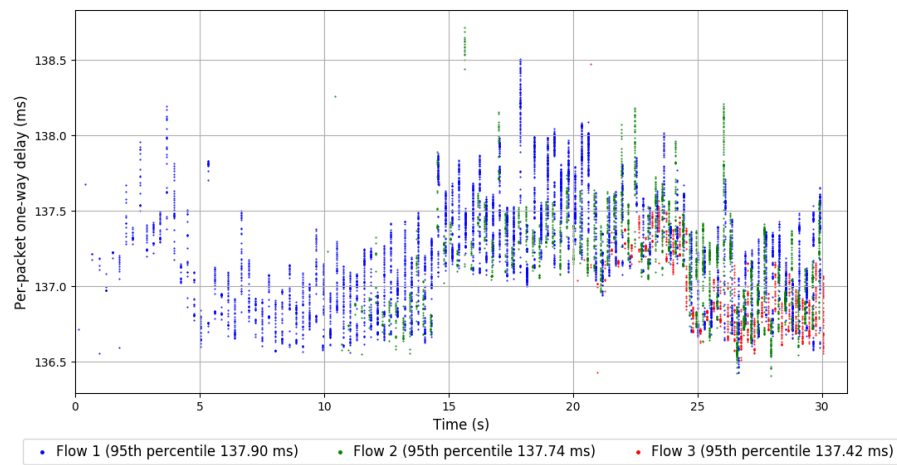
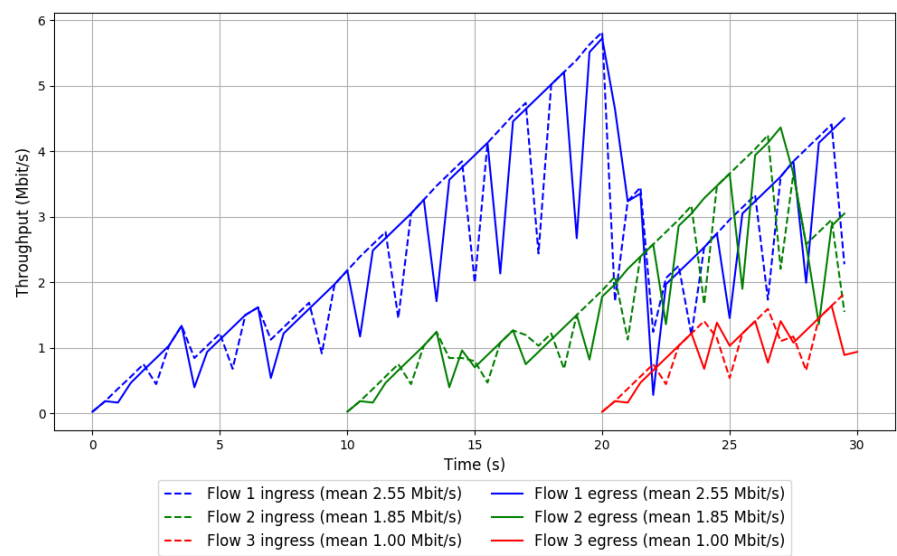
-- Flow 3:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 137.419 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-27 03:44:53

End at: 2018-01-27 03:45:23

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.57 Mbit/s

95th percentile per-packet one-way delay: 139.243 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 139.302 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 139.104 ms

Loss rate: 0.04%

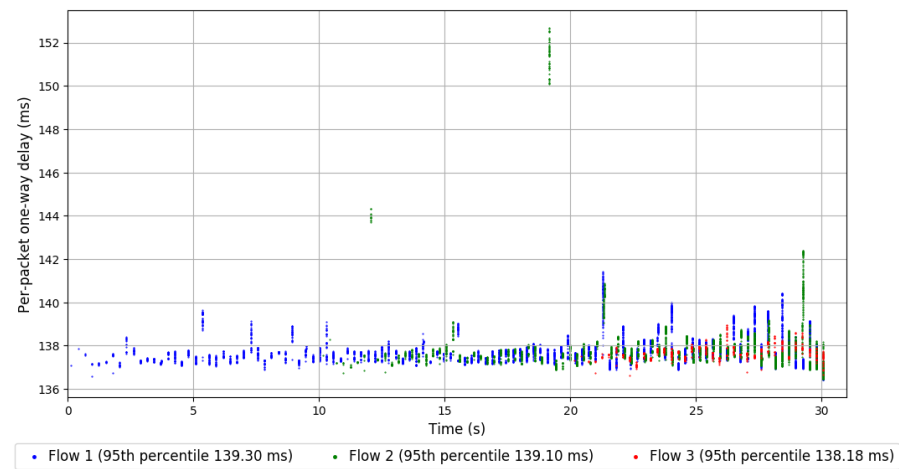
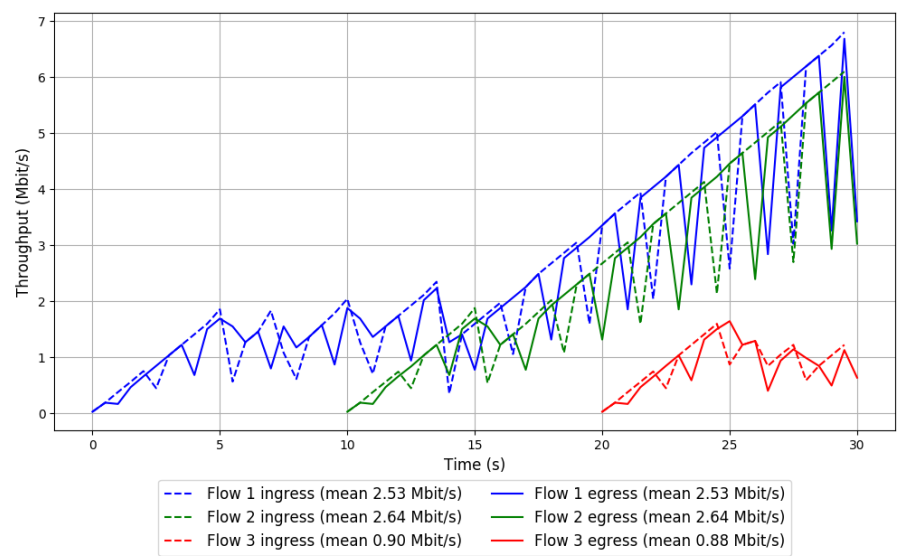
-- Flow 3:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 138.175 ms

Loss rate: 1.59%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-27 04:01:04

End at: 2018-01-27 04:01:34

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 138.036 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 137.889 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 1.34 Mbit/s

95th percentile per-packet one-way delay: 138.110 ms

Loss rate: 0.13%

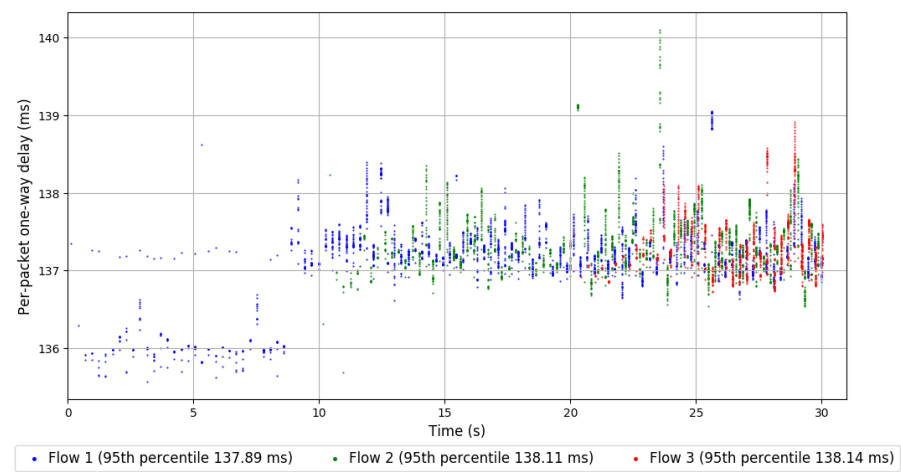
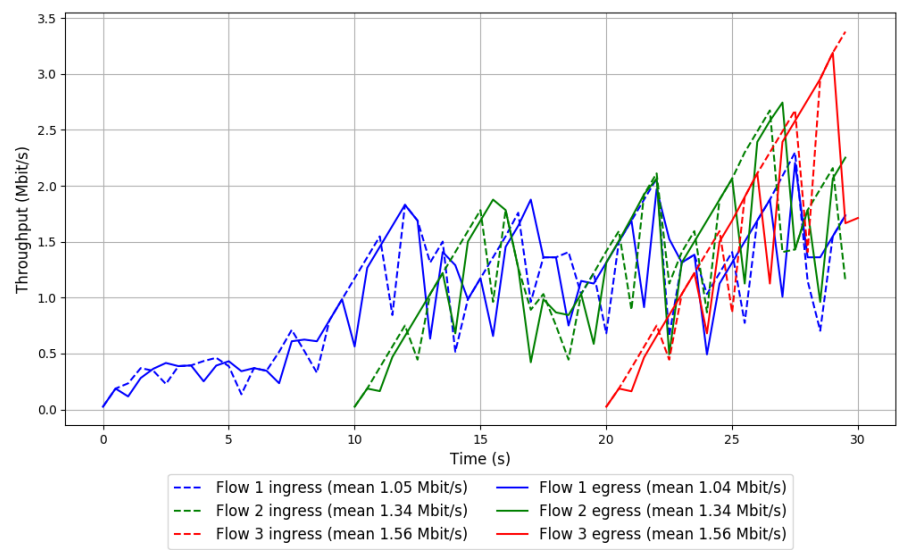
-- Flow 3:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 138.142 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-27 04:17:13

End at: 2018-01-27 04:17:43

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 138.682 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 138.629 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 138.774 ms

Loss rate: 1.14%

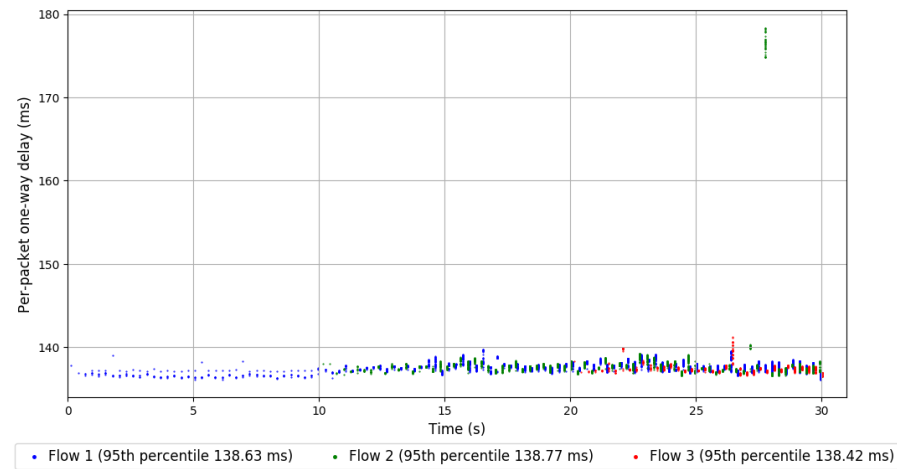
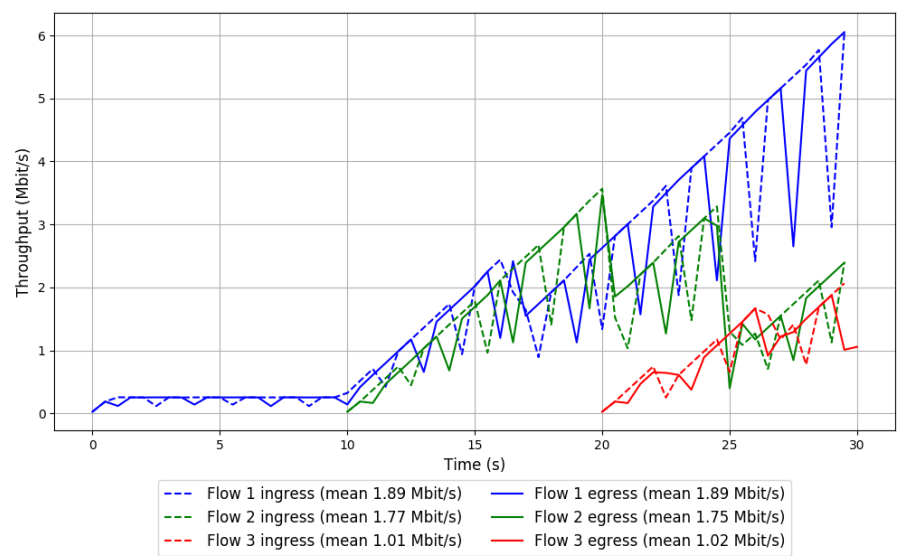
-- Flow 3:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 138.417 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-27 04:33:36

End at: 2018-01-27 04:34:06

Below is generated by plot.py at 2018-01-27 05:51:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 138.527 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 1.77 Mbit/s

95th percentile per-packet one-way delay: 138.329 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 138.729 ms

Loss rate: 0.00%

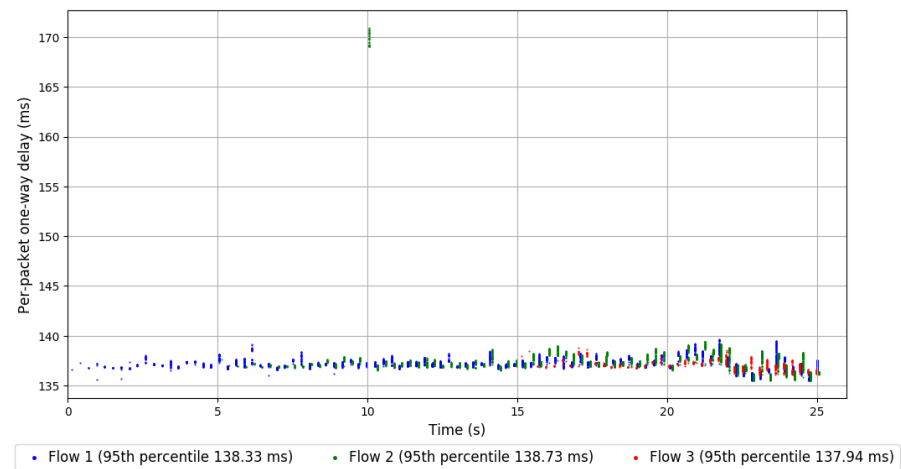
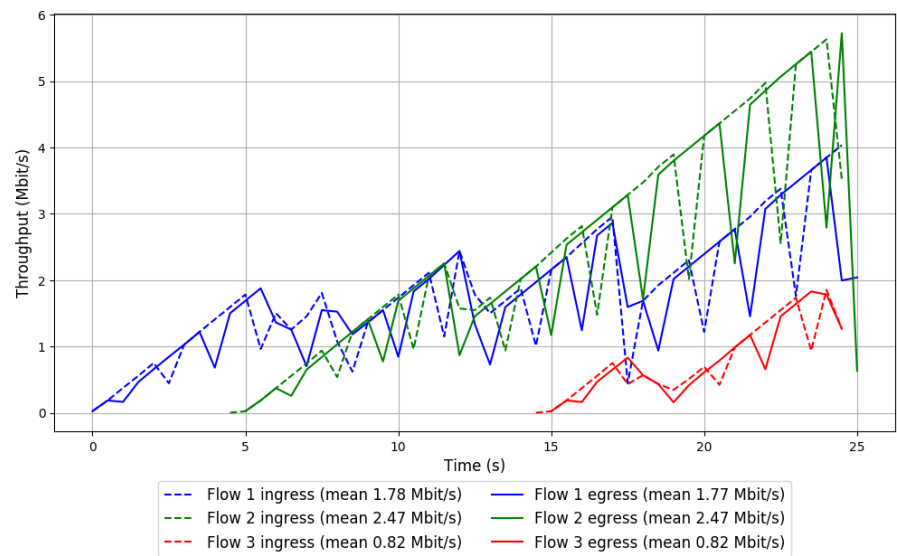
-- Flow 3:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 137.941 ms

Loss rate: 0.44%

Run 9: Report of LEDBAT — Data Link

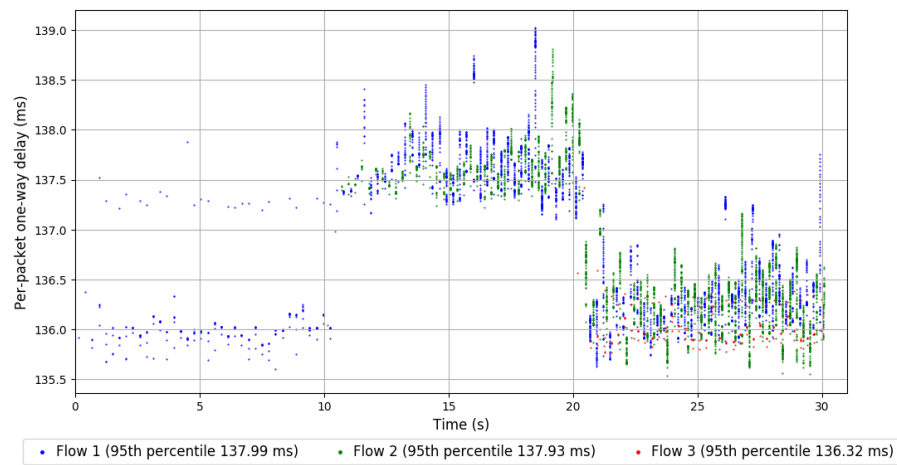
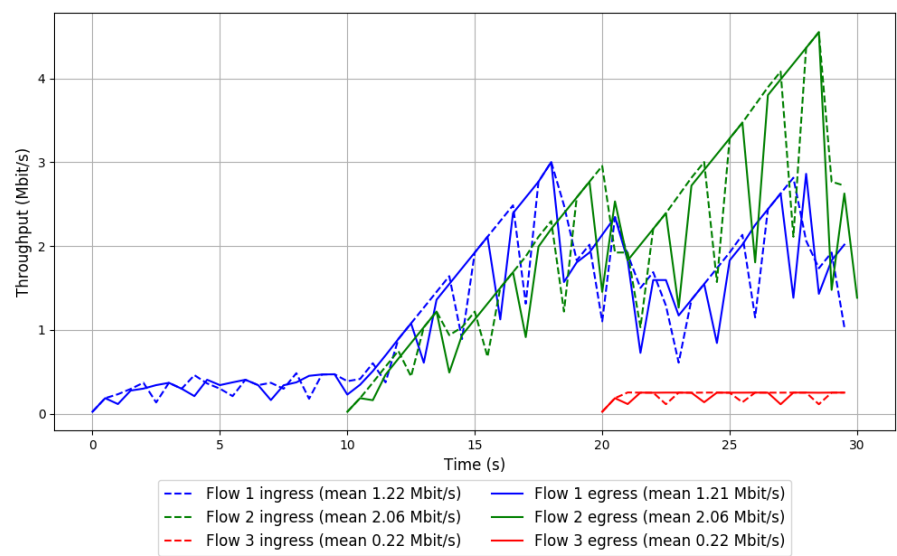


```
Run 10: Statistics of LEDBAT

Start at: 2018-01-27 04:49:52
End at: 2018-01-27 04:50:22

# Below is generated by plot.py at 2018-01-27 05:51:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 137.970 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 137.990 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 137.927 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

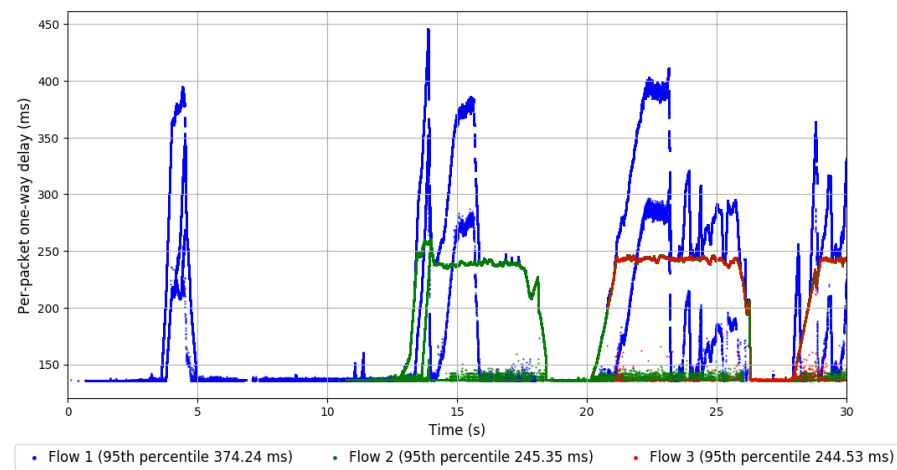
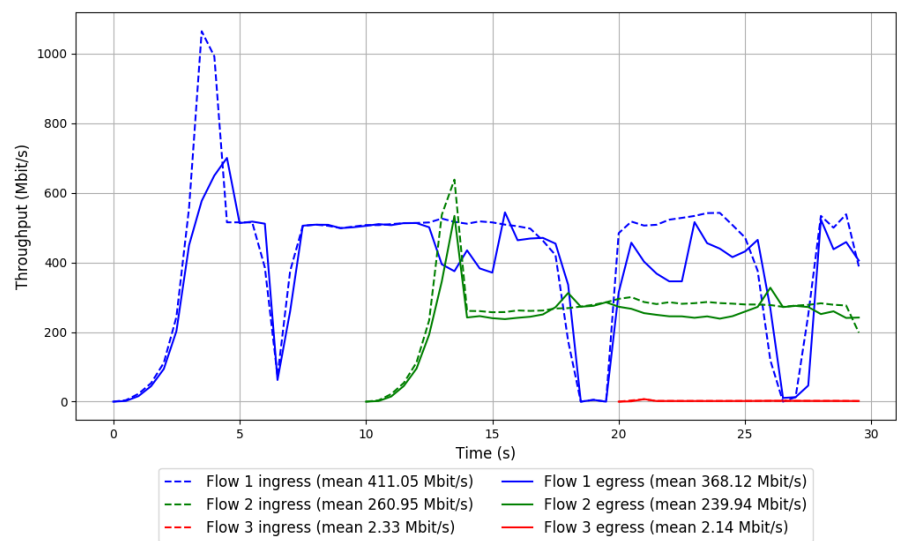


```
Run 1: Statistics of PCC

Start at: 2018-01-27 02:27:06
End at: 2018-01-27 02:27:36

# Below is generated by plot.py at 2018-01-27 05:59:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 528.20 Mbit/s
95th percentile per-packet one-way delay: 361.614 ms
Loss rate: 9.74%
-- Flow 1:
Average throughput: 368.12 Mbit/s
95th percentile per-packet one-way delay: 374.235 ms
Loss rate: 10.45%
-- Flow 2:
Average throughput: 239.94 Mbit/s
95th percentile per-packet one-way delay: 245.348 ms
Loss rate: 8.06%
-- Flow 3:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 244.529 ms
Loss rate: 8.22%
```

Run 1: Report of PCC — Data Link

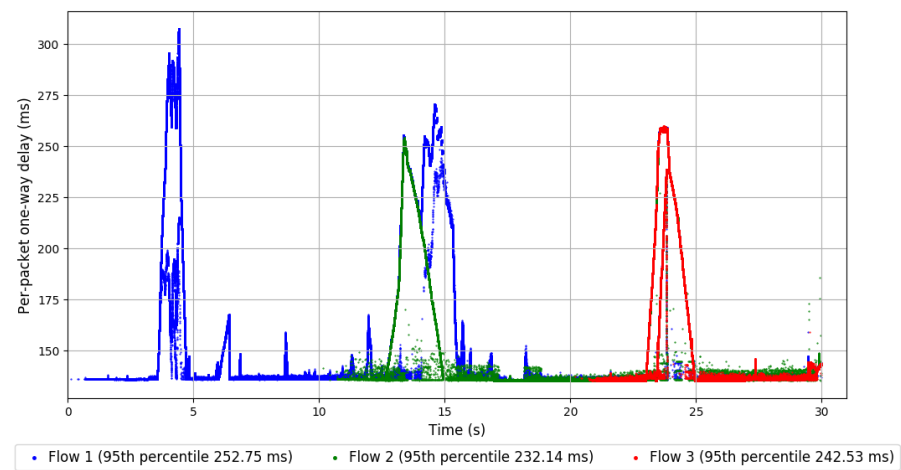
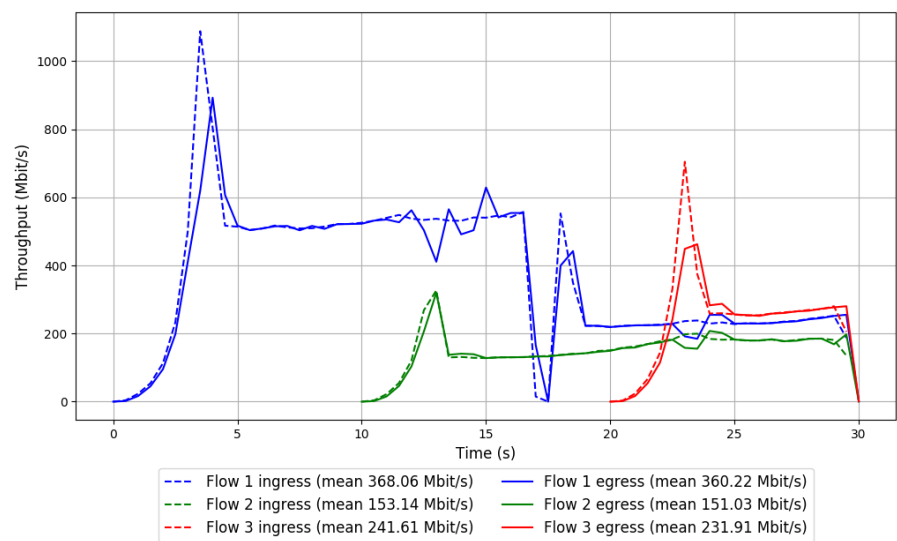


```
Run 2: Statistics of PCC

Start at: 2018-01-27 02:43:06
End at: 2018-01-27 02:43:36

# Below is generated by plot.py at 2018-01-27 05:59:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 536.80 Mbit/s
95th percentile per-packet one-way delay: 249.068 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 360.22 Mbit/s
95th percentile per-packet one-way delay: 252.749 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 151.03 Mbit/s
95th percentile per-packet one-way delay: 232.141 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 231.91 Mbit/s
95th percentile per-packet one-way delay: 242.531 ms
Loss rate: 3.96%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-27 02:59:02

End at: 2018-01-27 02:59:32

Below is generated by plot.py at 2018-01-27 06:00:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 583.55 Mbit/s

95th percentile per-packet one-way delay: 332.576 ms

Loss rate: 5.05%

-- Flow 1:

Average throughput: 474.43 Mbit/s

95th percentile per-packet one-way delay: 336.886 ms

Loss rate: 5.77%

-- Flow 2:

Average throughput: 132.96 Mbit/s

95th percentile per-packet one-way delay: 236.921 ms

Loss rate: 1.71%

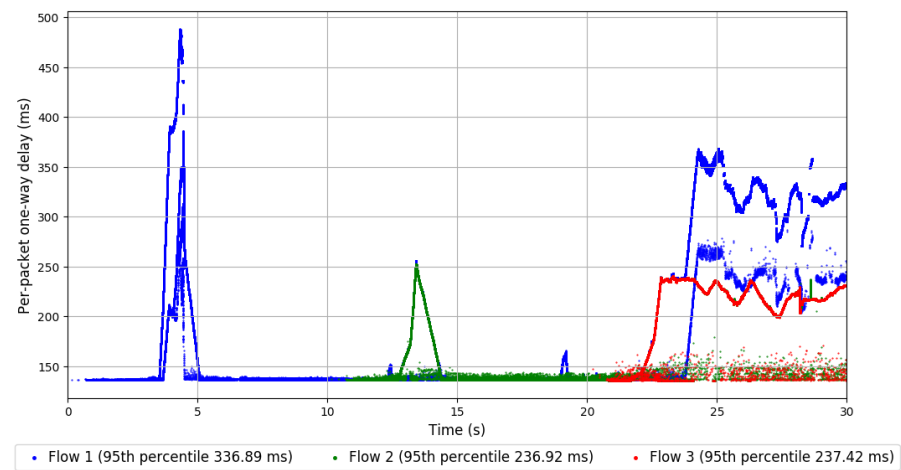
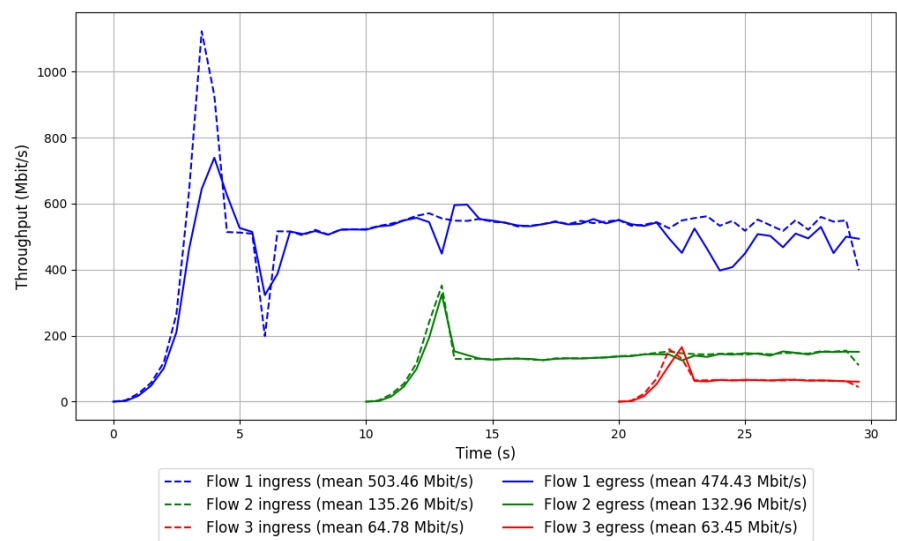
-- Flow 3:

Average throughput: 63.45 Mbit/s

95th percentile per-packet one-way delay: 237.419 ms

Loss rate: 2.16%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-27 03:15:46

End at: 2018-01-27 03:16:16

Below is generated by plot.py at 2018-01-27 06:00:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 454.64 Mbit/s

95th percentile per-packet one-way delay: 285.995 ms

Loss rate: 3.35%

-- Flow 1:

Average throughput: 244.44 Mbit/s

95th percentile per-packet one-way delay: 289.858 ms

Loss rate: 2.88%

-- Flow 2:

Average throughput: 257.09 Mbit/s

95th percentile per-packet one-way delay: 292.716 ms

Loss rate: 4.23%

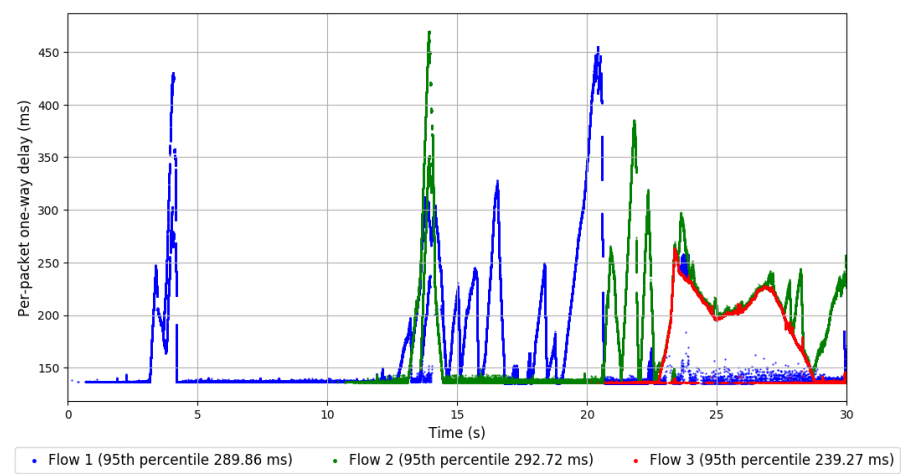
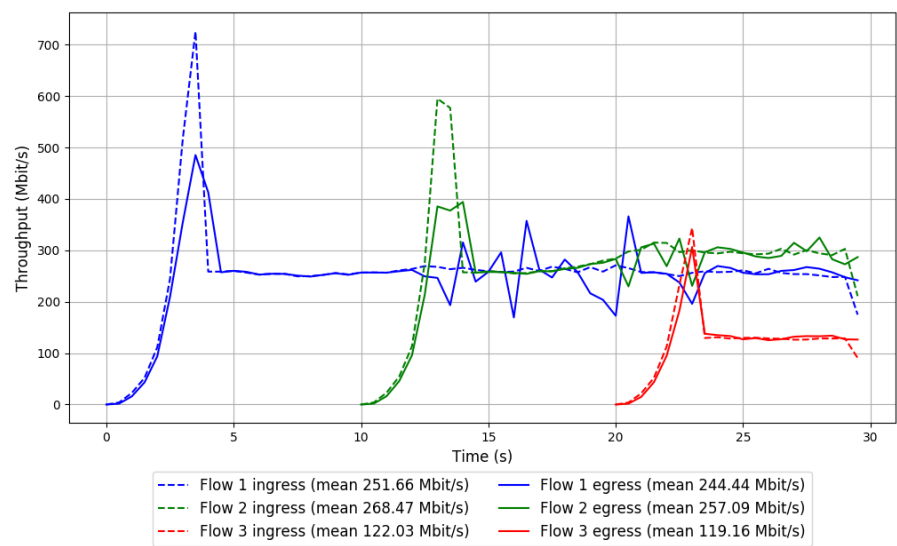
-- Flow 3:

Average throughput: 119.16 Mbit/s

95th percentile per-packet one-way delay: 239.270 ms

Loss rate: 2.36%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-27 03:31:37

End at: 2018-01-27 03:32:07

Below is generated by plot.py at 2018-01-27 06:00:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 523.17 Mbit/s

95th percentile per-packet one-way delay: 250.365 ms

Loss rate: 4.65%

-- Flow 1:

Average throughput: 366.21 Mbit/s

95th percentile per-packet one-way delay: 250.711 ms

Loss rate: 5.23%

-- Flow 2:

Average throughput: 123.02 Mbit/s

95th percentile per-packet one-way delay: 249.837 ms

Loss rate: 2.92%

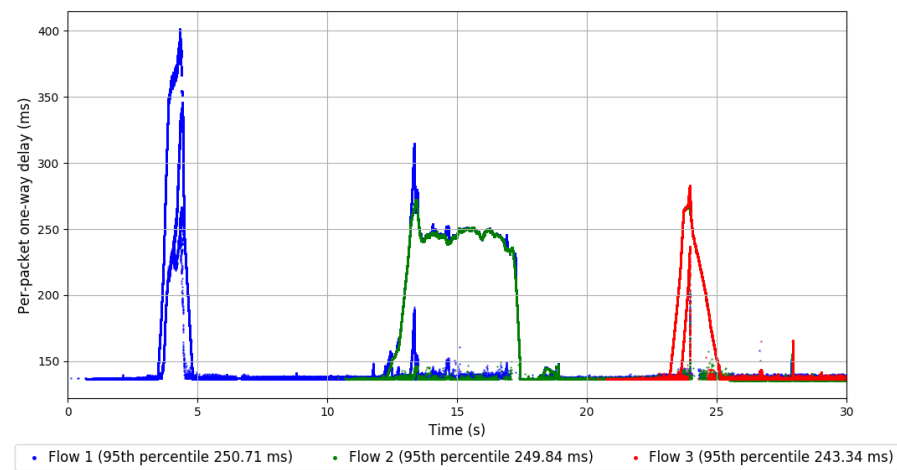
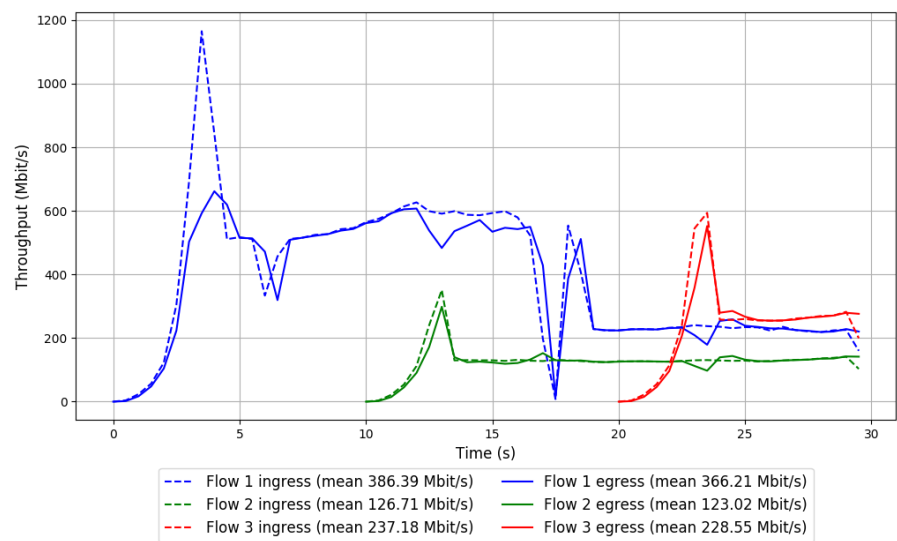
-- Flow 3:

Average throughput: 228.55 Mbit/s

95th percentile per-packet one-way delay: 243.344 ms

Loss rate: 3.63%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-27 03:47:50

End at: 2018-01-27 03:48:20

Below is generated by plot.py at 2018-01-27 06:00:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.22 Mbit/s

95th percentile per-packet one-way delay: 284.487 ms

Loss rate: 5.89%

-- Flow 1:

Average throughput: 409.21 Mbit/s

95th percentile per-packet one-way delay: 300.084 ms

Loss rate: 7.33%

-- Flow 2:

Average throughput: 136.59 Mbit/s

95th percentile per-packet one-way delay: 213.099 ms

Loss rate: 0.65%

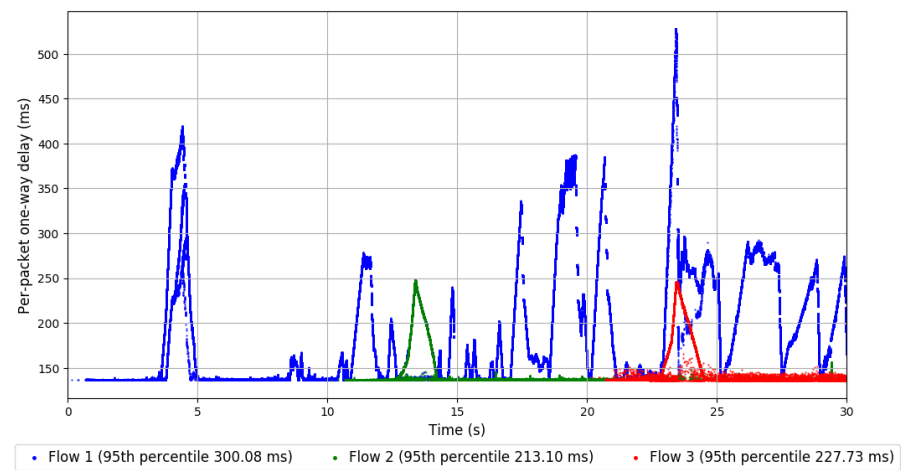
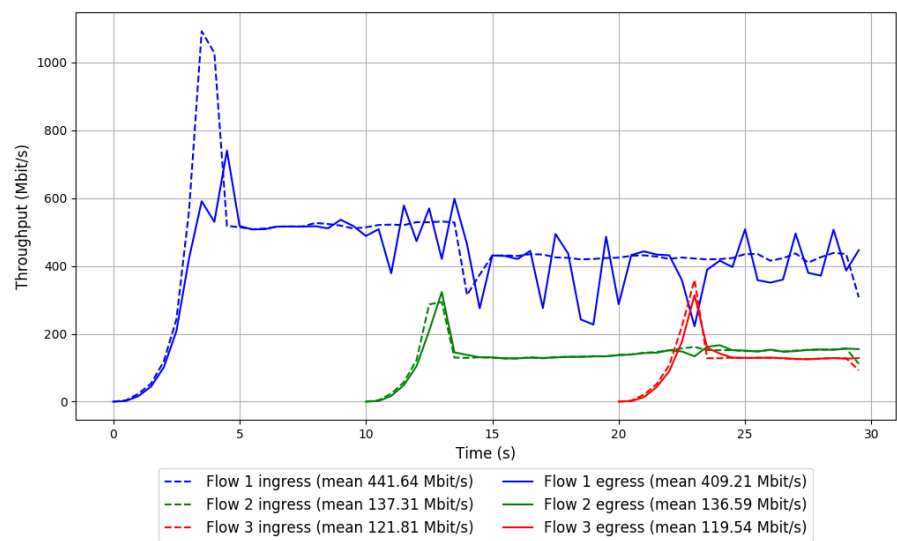
-- Flow 3:

Average throughput: 119.54 Mbit/s

95th percentile per-packet one-way delay: 227.733 ms

Loss rate: 1.90%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-27 04:04:02

End at: 2018-01-27 04:04:32

Below is generated by plot.py at 2018-01-27 06:01:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 580.67 Mbit/s

95th percentile per-packet one-way delay: 274.842 ms

Loss rate: 11.02%

-- Flow 1:

Average throughput: 411.59 Mbit/s

95th percentile per-packet one-way delay: 278.977 ms

Loss rate: 9.12%

-- Flow 2:

Average throughput: 130.33 Mbit/s

95th percentile per-packet one-way delay: 257.175 ms

Loss rate: 8.22%

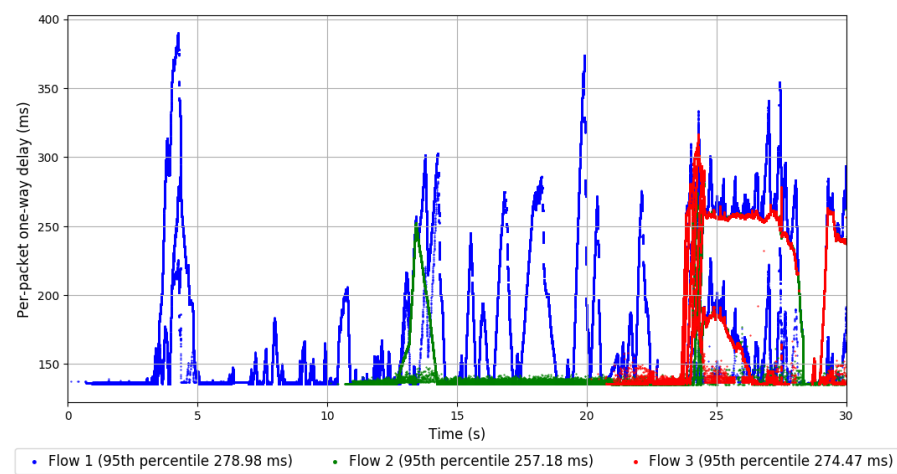
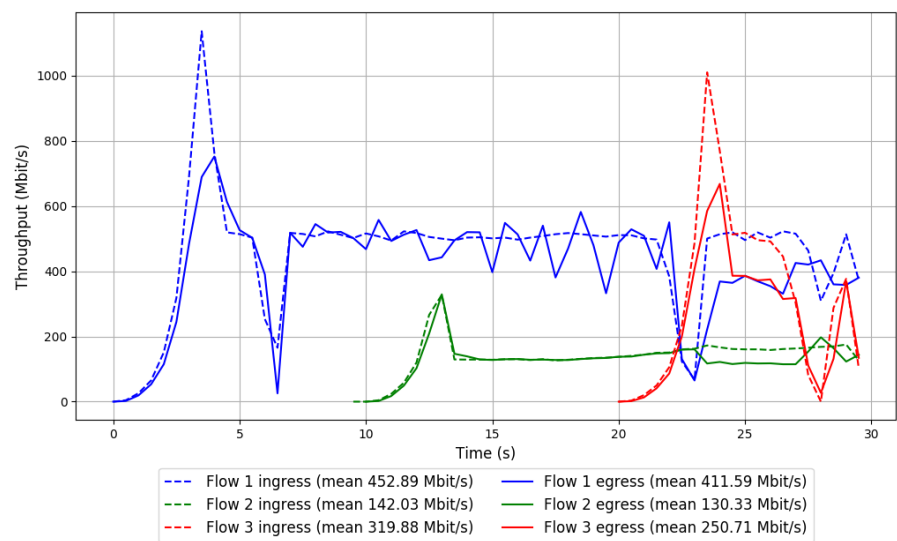
-- Flow 3:

Average throughput: 250.71 Mbit/s

95th percentile per-packet one-way delay: 274.472 ms

Loss rate: 21.69%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-27 04:20:11

End at: 2018-01-27 04:20:41

Below is generated by plot.py at 2018-01-27 06:01:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 493.11 Mbit/s

95th percentile per-packet one-way delay: 309.885 ms

Loss rate: 7.88%

-- Flow 1:

Average throughput: 349.72 Mbit/s

95th percentile per-packet one-way delay: 322.244 ms

Loss rate: 8.66%

-- Flow 2:

Average throughput: 211.49 Mbit/s

95th percentile per-packet one-way delay: 252.869 ms

Loss rate: 5.99%

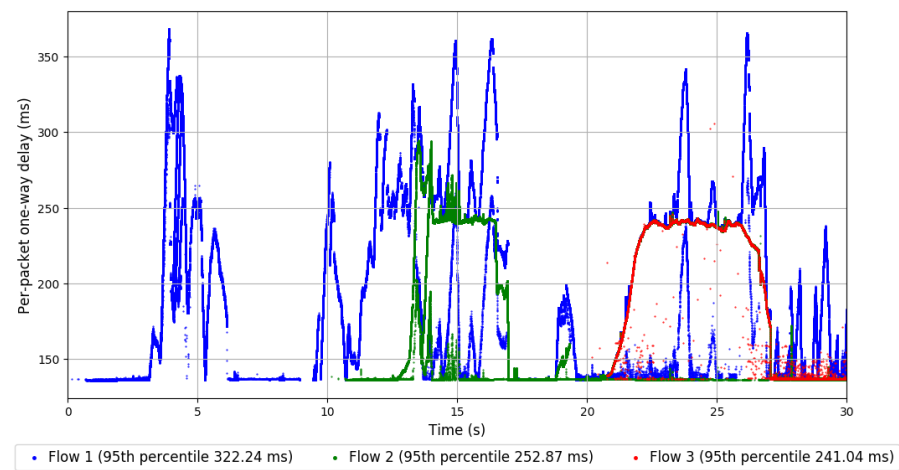
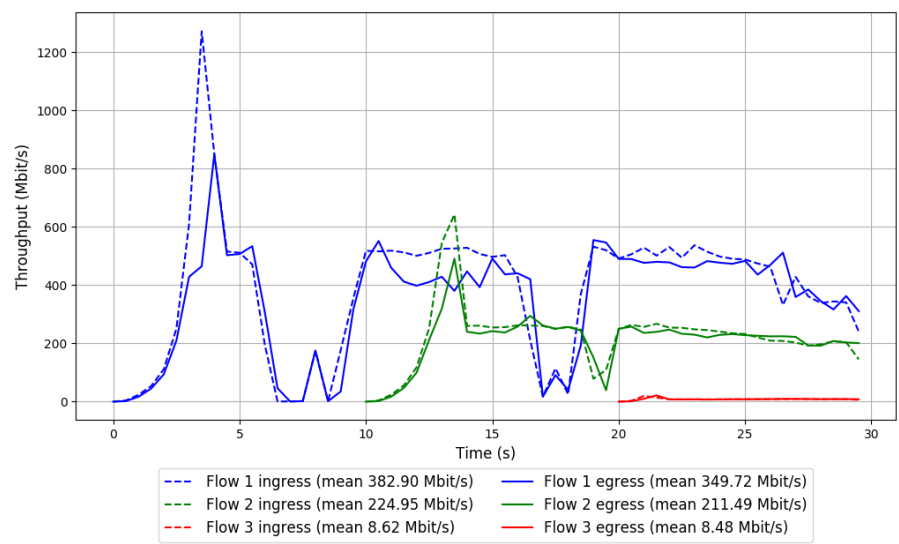
-- Flow 3:

Average throughput: 8.48 Mbit/s

95th percentile per-packet one-way delay: 241.039 ms

Loss rate: 1.81%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-27 04:36:33

End at: 2018-01-27 04:37:03

Below is generated by plot.py at 2018-01-27 06:08:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.60 Mbit/s

95th percentile per-packet one-way delay: 260.214 ms

Loss rate: 5.66%

-- Flow 1:

Average throughput: 324.80 Mbit/s

95th percentile per-packet one-way delay: 285.128 ms

Loss rate: 6.57%

-- Flow 2:

Average throughput: 232.49 Mbit/s

95th percentile per-packet one-way delay: 243.688 ms

Loss rate: 4.56%

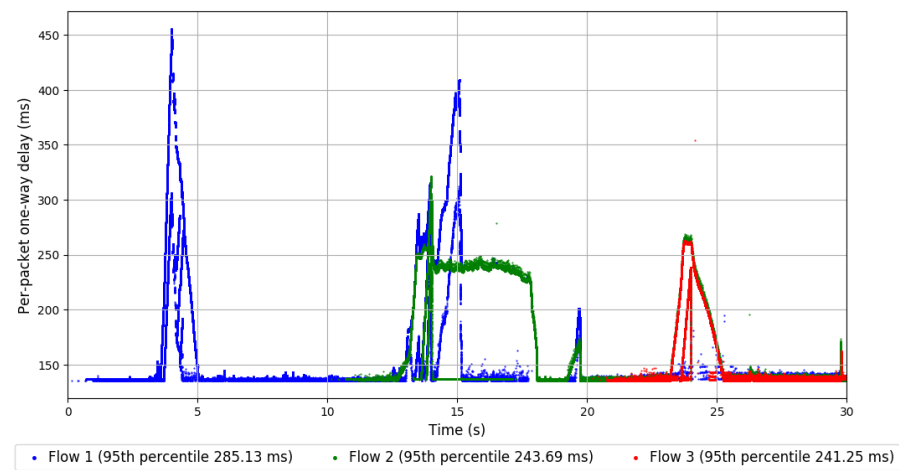
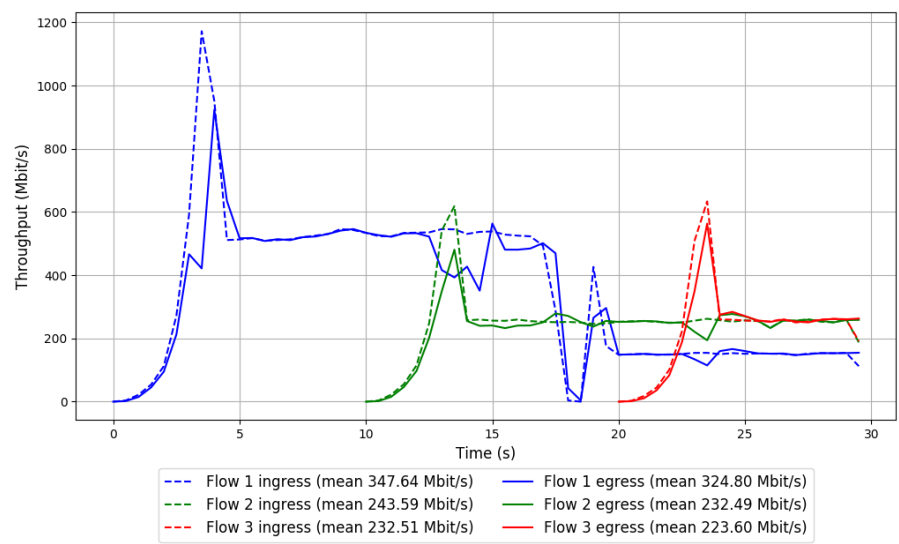
-- Flow 3:

Average throughput: 223.60 Mbit/s

95th percentile per-packet one-way delay: 241.248 ms

Loss rate: 3.84%

Run 9: Report of PCC — Data Link

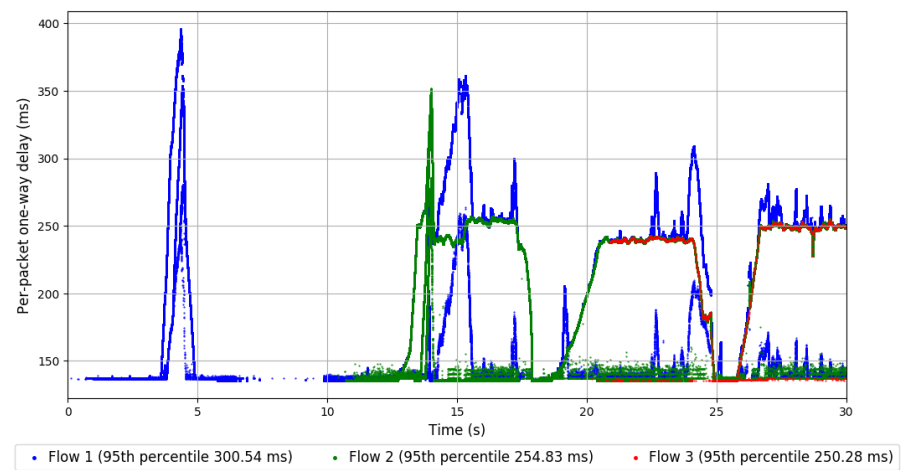
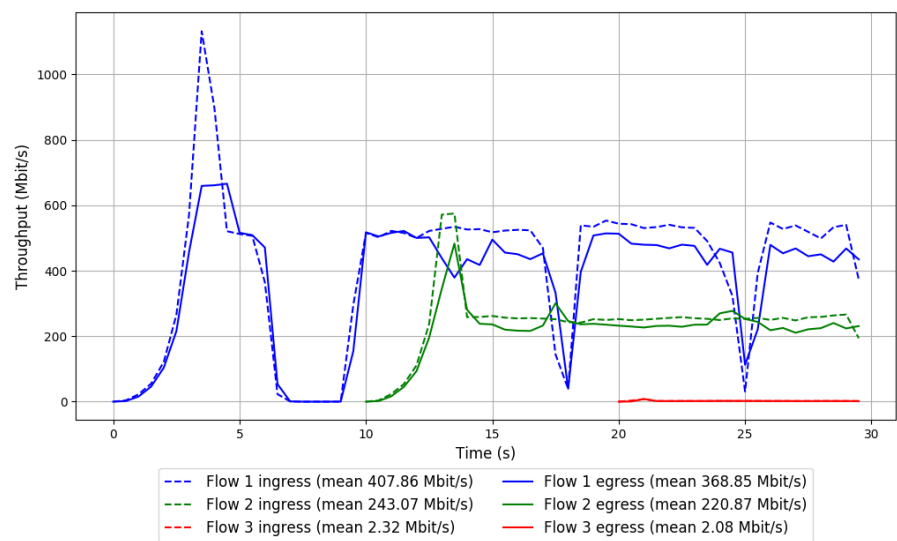


```
Run 10: Statistics of PCC

Start at: 2018-01-27 04:52:47
End at: 2018-01-27 04:53:17

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 516.34 Mbit/s
95th percentile per-packet one-way delay: 292.148 ms
Loss rate: 9.43%
-- Flow 1:
Average throughput: 368.85 Mbit/s
95th percentile per-packet one-way delay: 300.540 ms
Loss rate: 9.56%
-- Flow 2:
Average throughput: 220.87 Mbit/s
95th percentile per-packet one-way delay: 254.831 ms
Loss rate: 9.13%
-- Flow 3:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 250.283 ms
Loss rate: 10.25%
```

Run 10: Report of PCC — Data Link

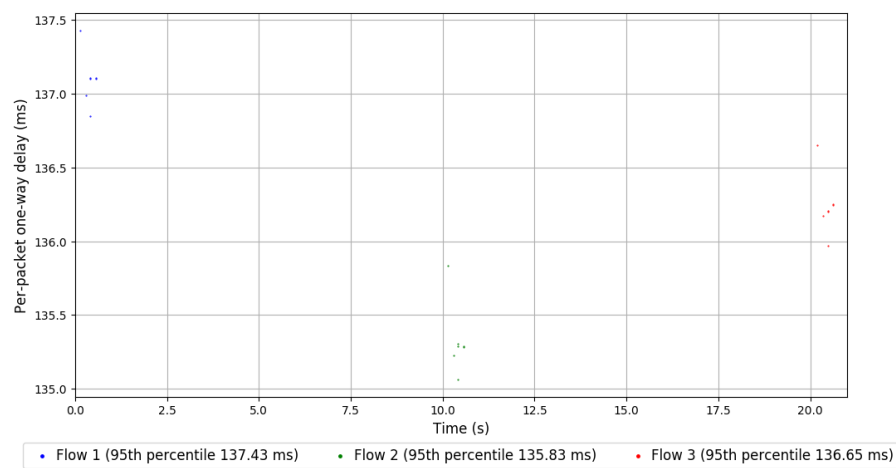
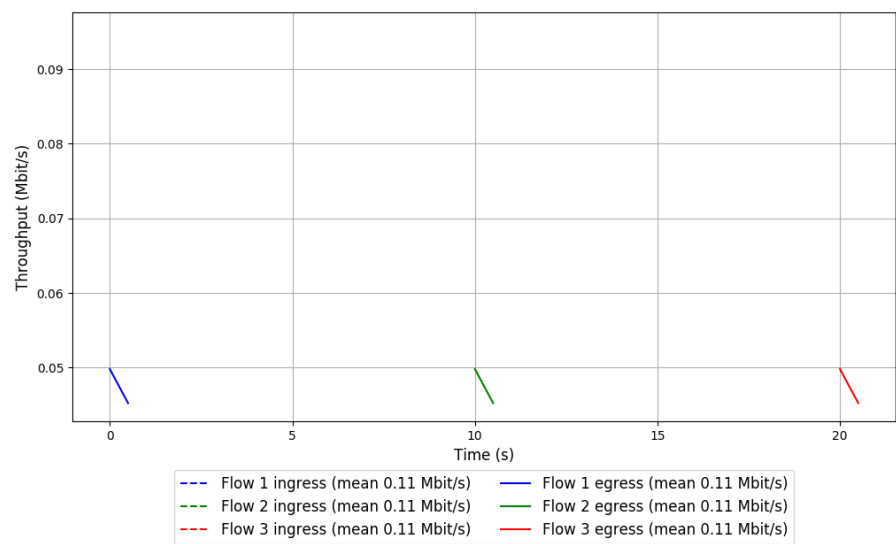


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-27 02:15:34

End at: 2018-01-27 02:16:04

Run 1: Report of QUIC Cubic — Data Link

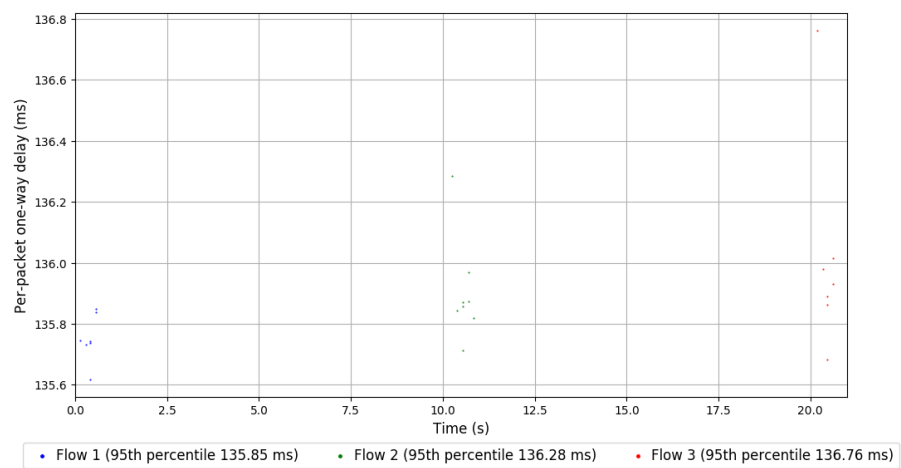
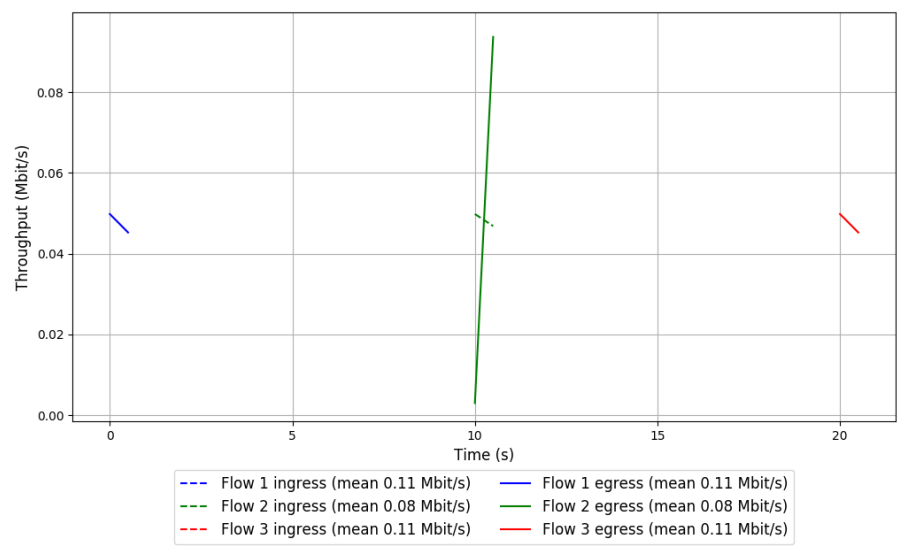


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-27 02:31:18

End at: 2018-01-27 02:31:48

Run 2: Report of QUIC Cubic — Data Link

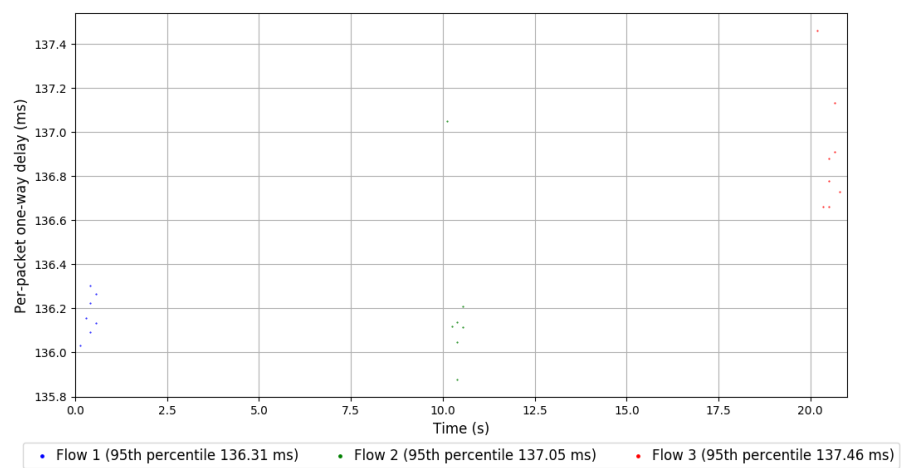
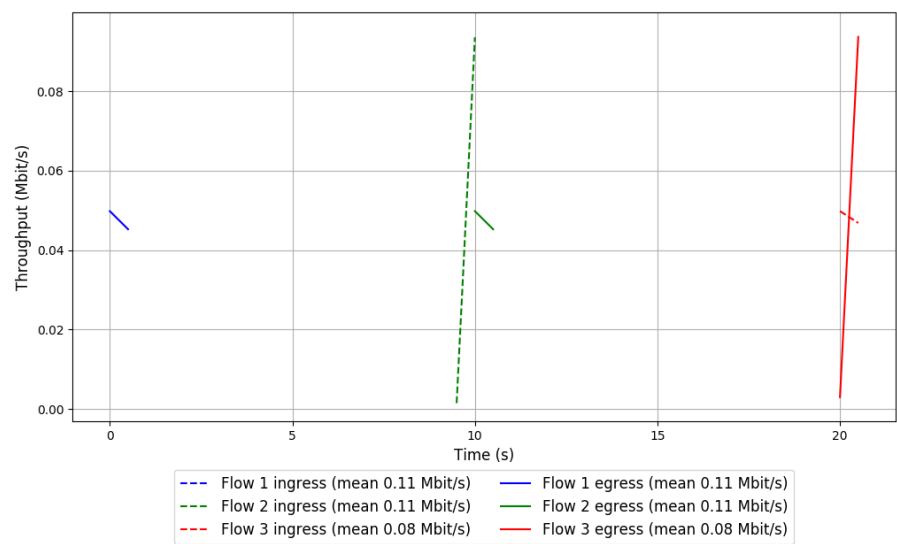


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-27 02:47:17

End at: 2018-01-27 02:47:47

Run 3: Report of QUIC Cubic — Data Link

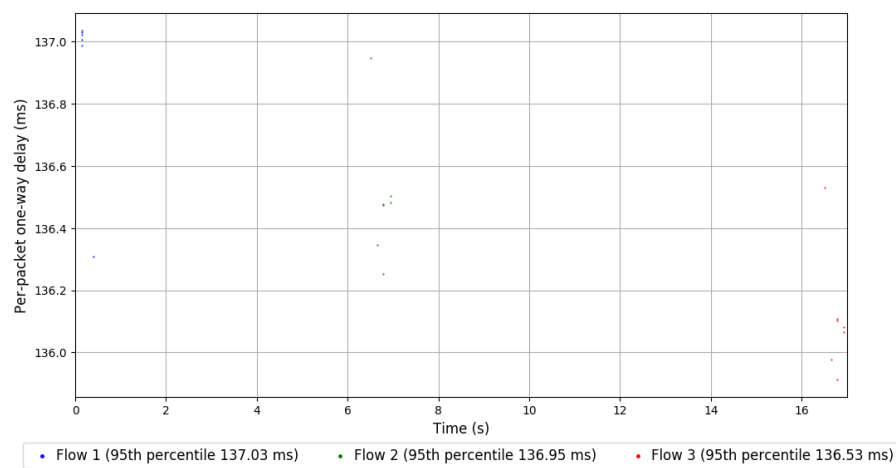
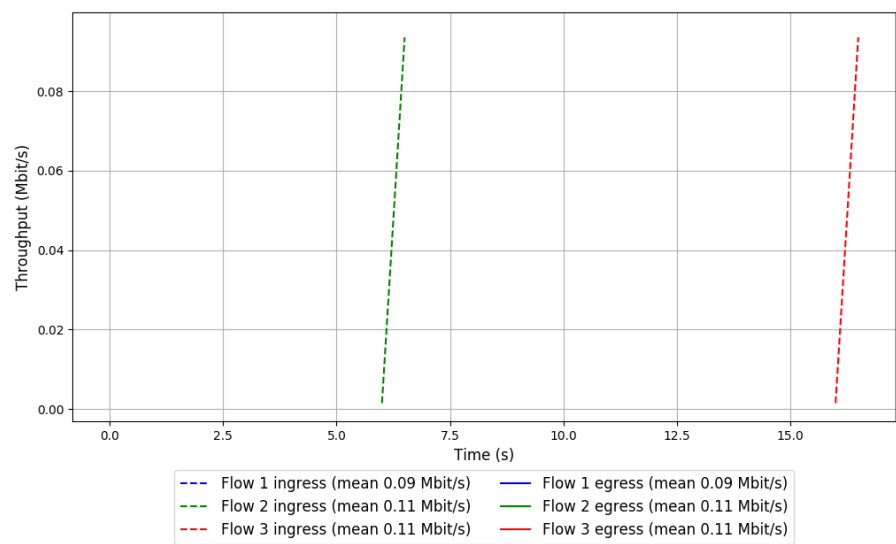


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-27 03:03:17

End at: 2018-01-27 03:03:47

Run 4: Report of QUIC Cubic — Data Link

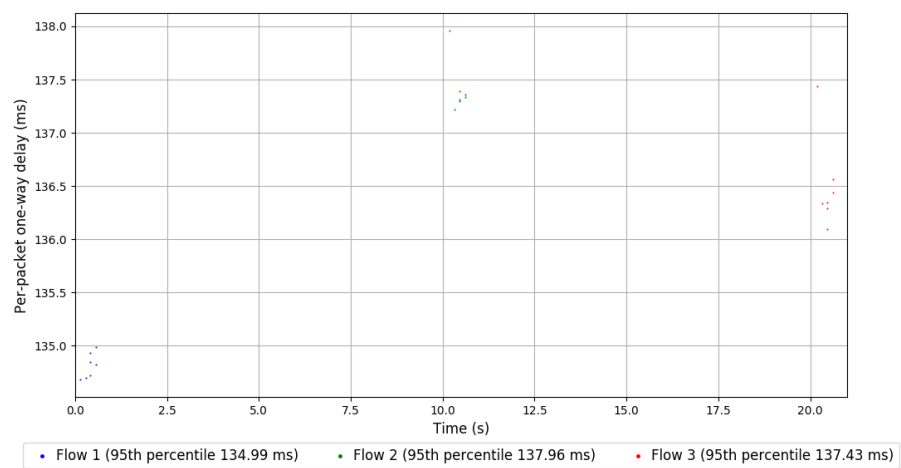
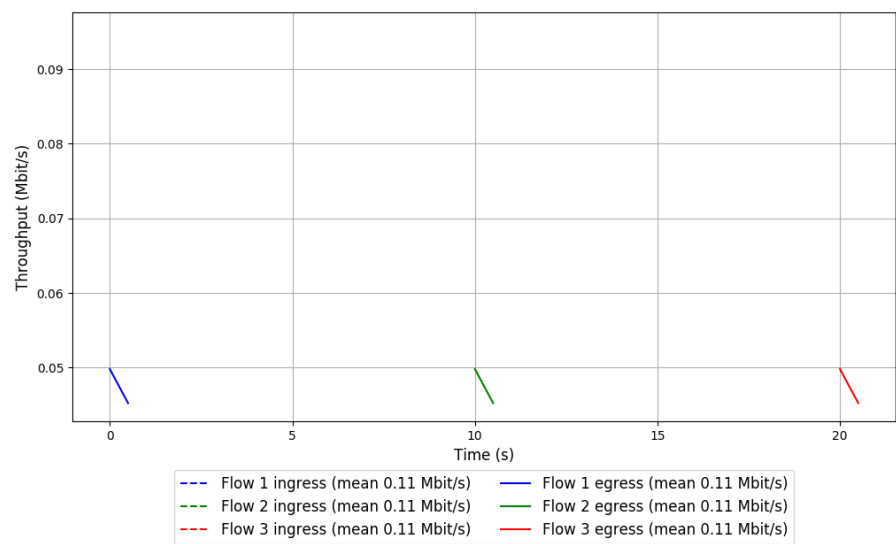


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-27 03:19:54

End at: 2018-01-27 03:20:24

Run 5: Report of QUIC Cubic — Data Link

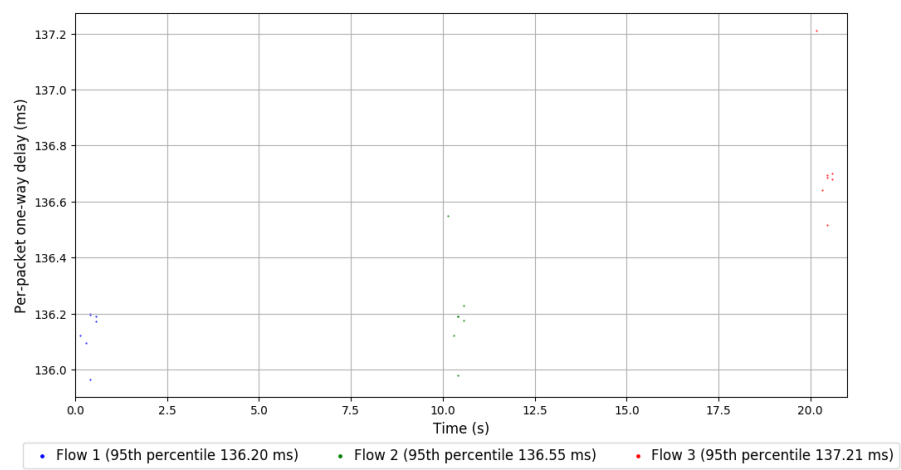
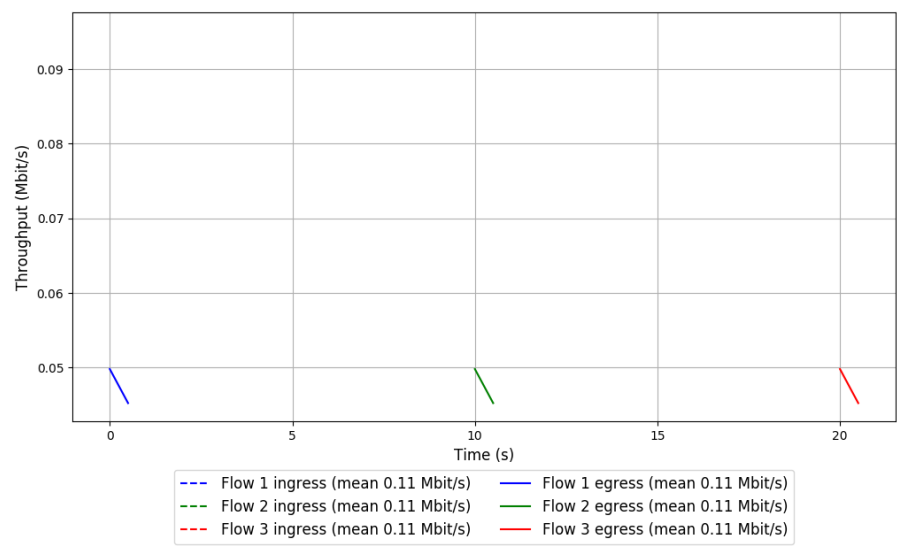


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-27 03:35:49

End at: 2018-01-27 03:36:19

Run 6: Report of QUIC Cubic — Data Link

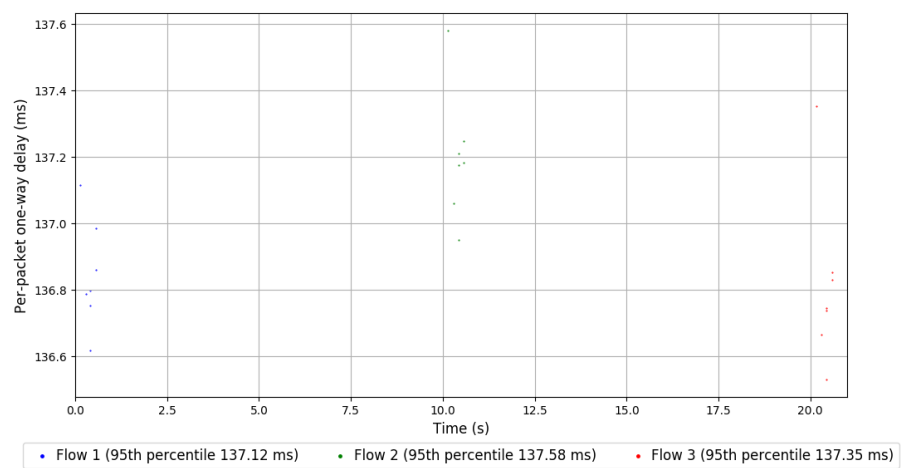
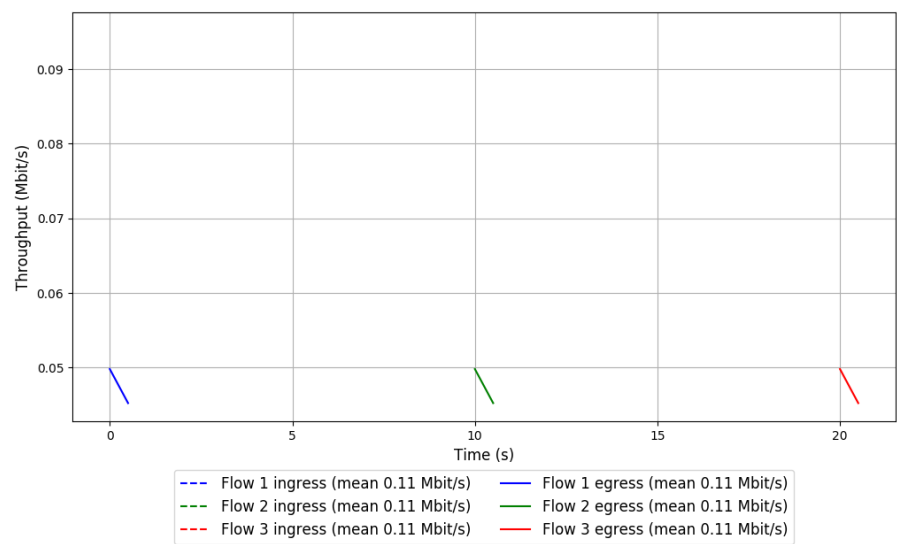


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-27 03:52:03

End at: 2018-01-27 03:52:33

Run 7: Report of QUIC Cubic — Data Link

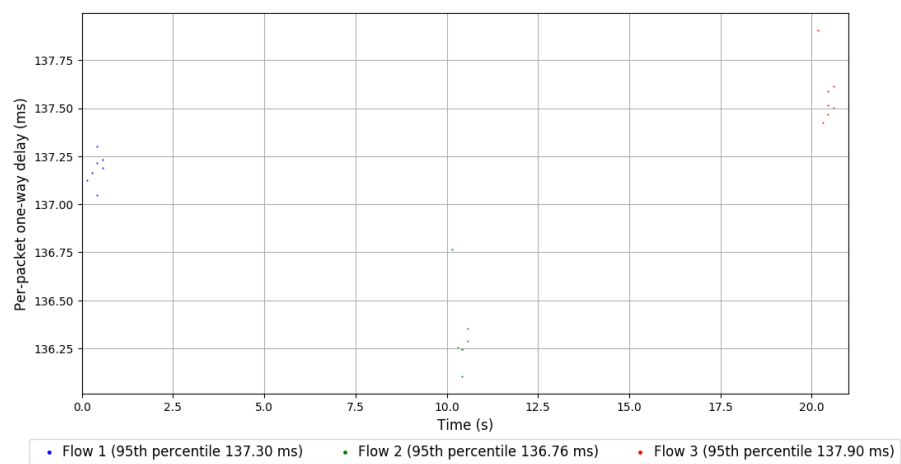
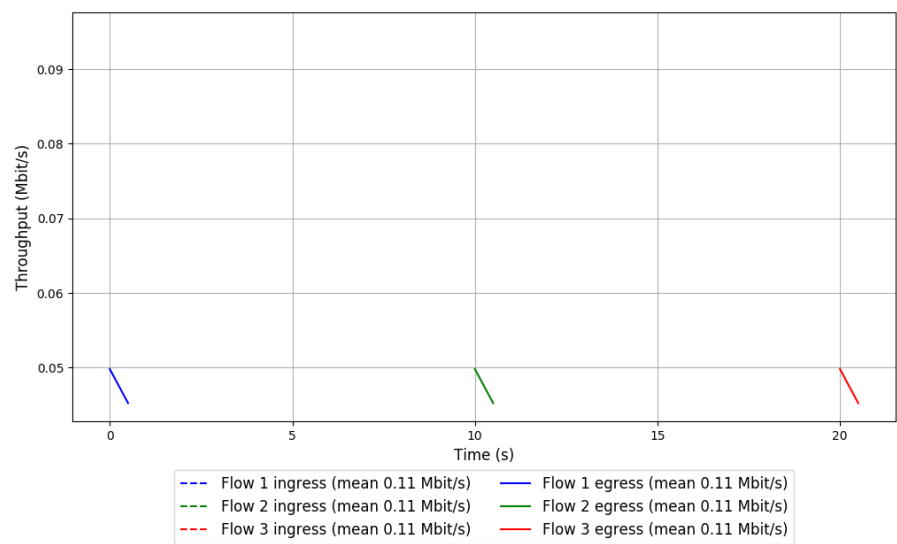


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-27 04:08:18

End at: 2018-01-27 04:08:48

Run 8: Report of QUIC Cubic — Data Link

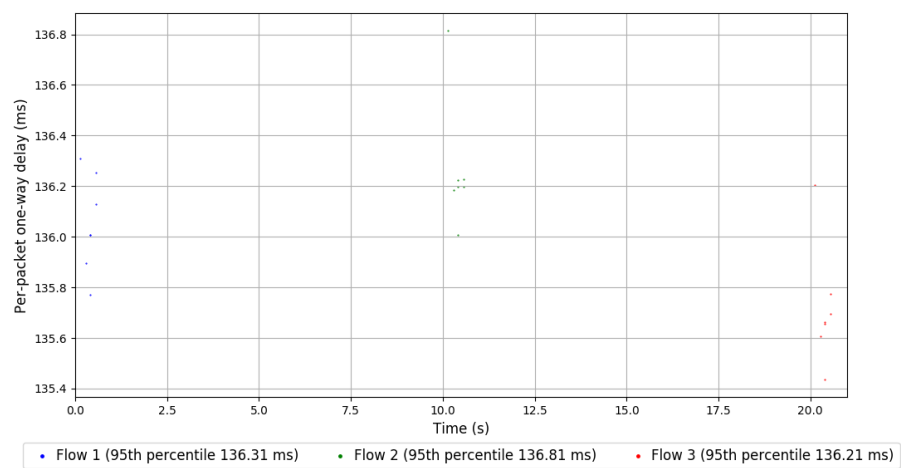
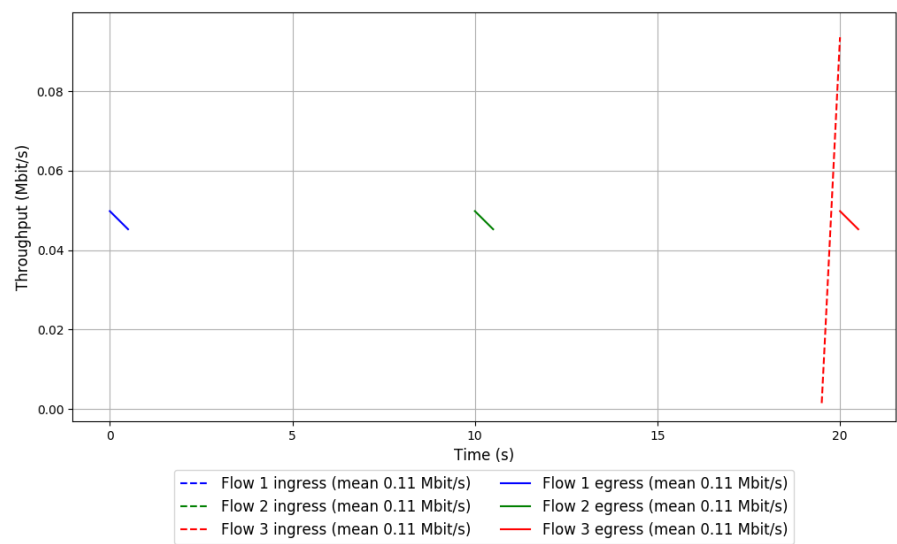


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-27 04:24:21

End at: 2018-01-27 04:24:51

Run 9: Report of QUIC Cubic — Data Link

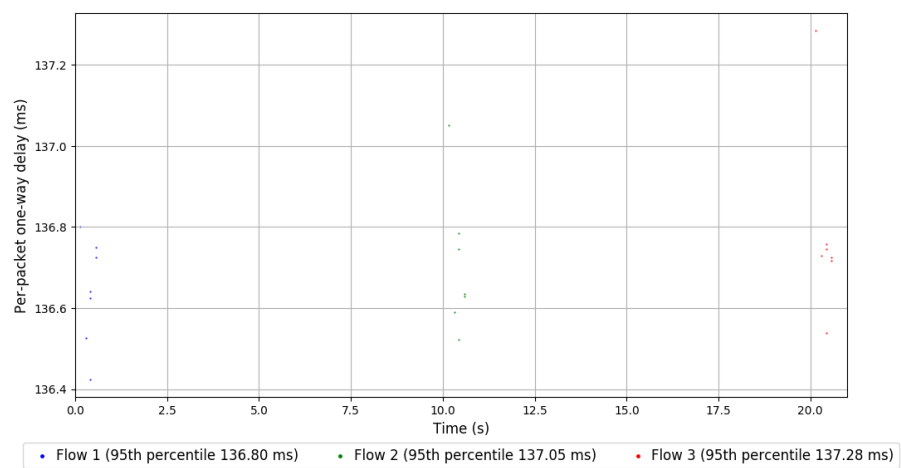
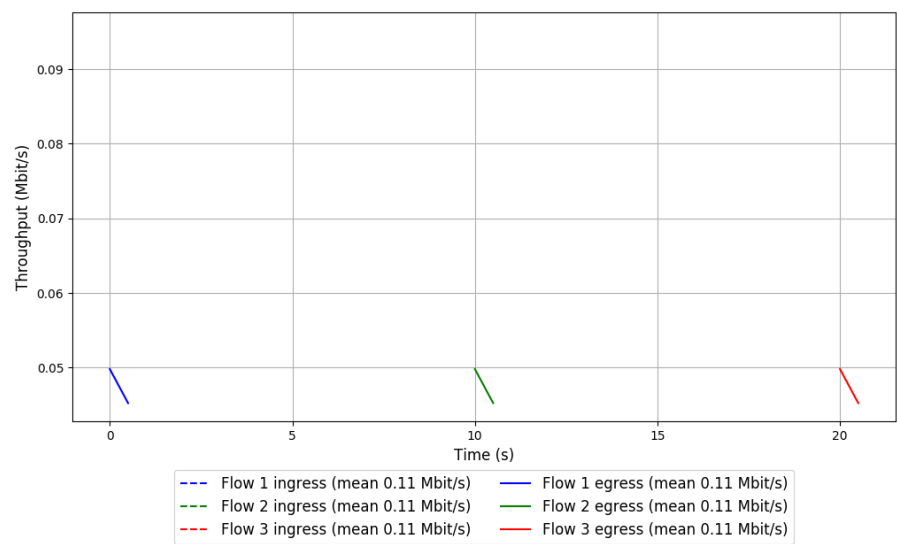


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-27 04:40:46

End at: 2018-01-27 04:41:16

Run 10: Report of QUIC Cubic — Data Link

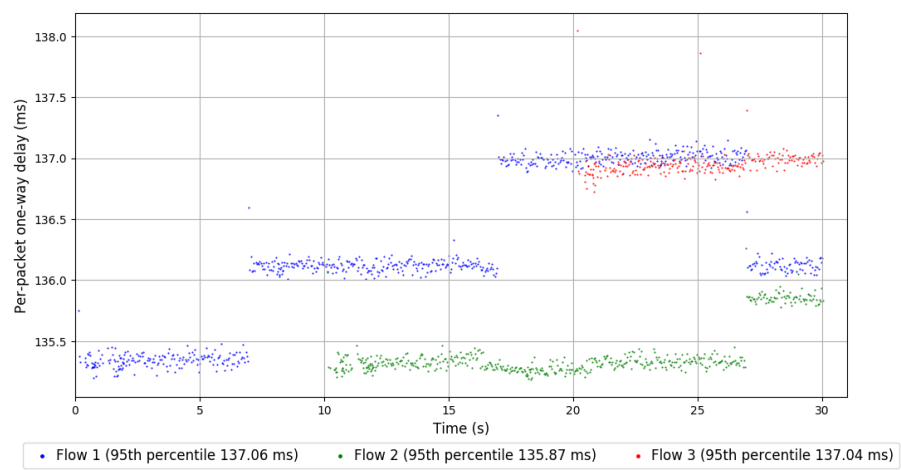
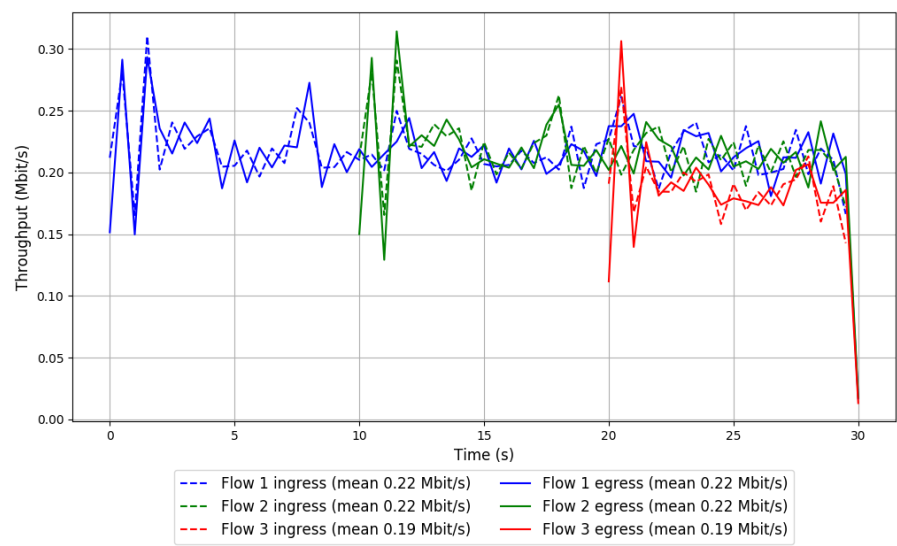


```
Run 1: Statistics of SCReAM

Start at: 2018-01-27 02:14:46
End at: 2018-01-27 02:15:16

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.039 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.056 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.867 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 137.038 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

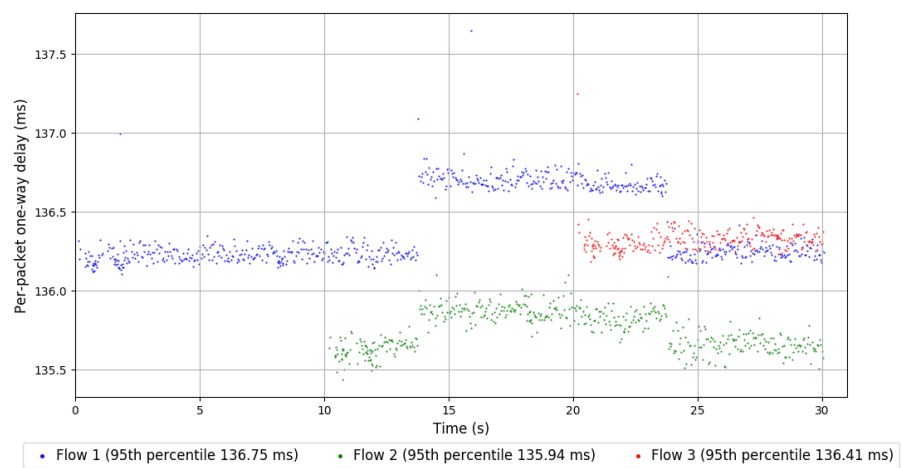
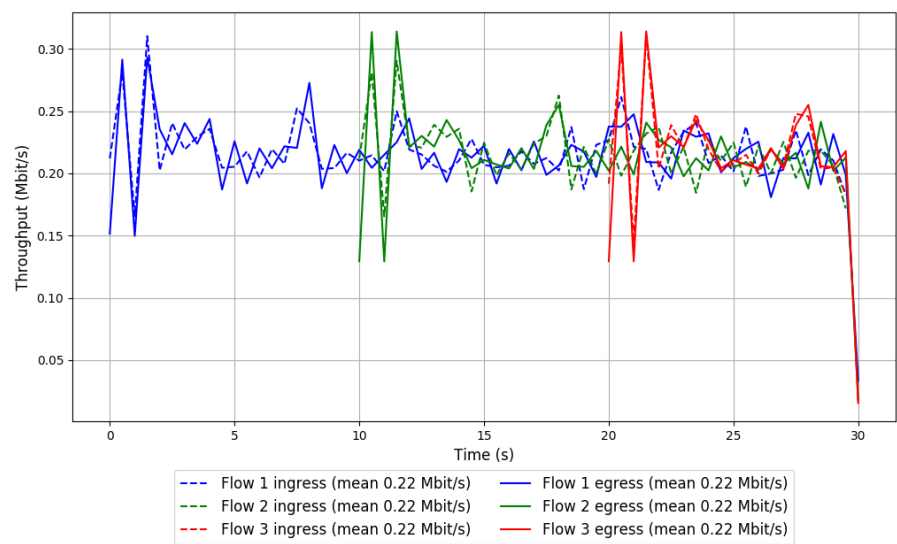


```
Run 2: Statistics of SReAM

Start at: 2018-01-27 02:30:29
End at: 2018-01-27 02:30:59

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.936 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.415 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

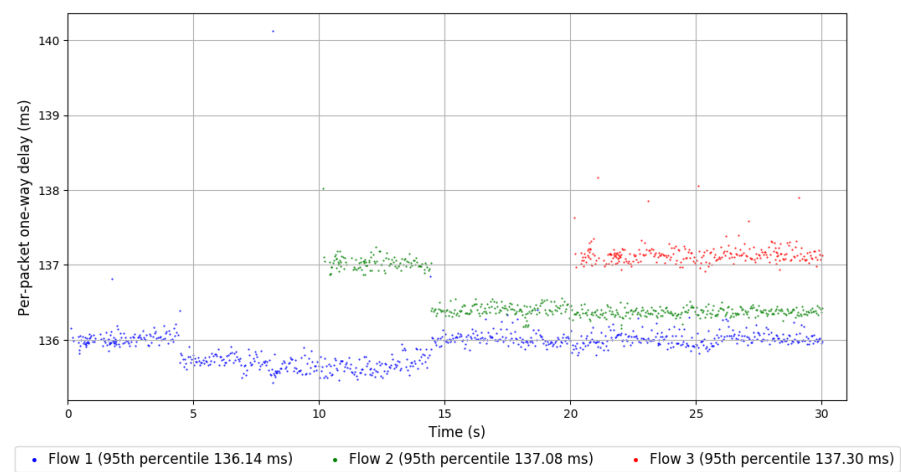
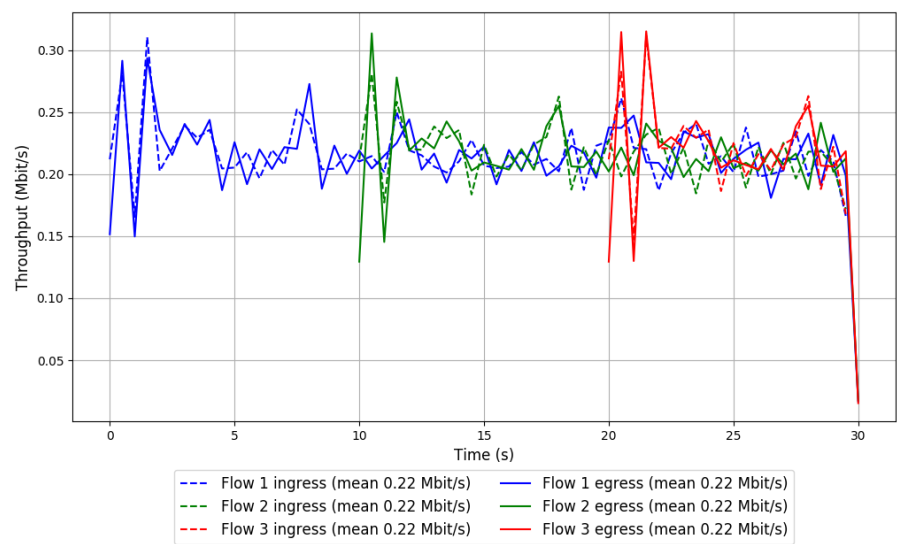


```
Run 3: Statistics of SReAM

Start at: 2018-01-27 02:46:28
End at: 2018-01-27 02:46:58

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.141 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.082 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.304 ms
Loss rate: 0.00%
```


Run 3: Report of SCReAM — Data Link

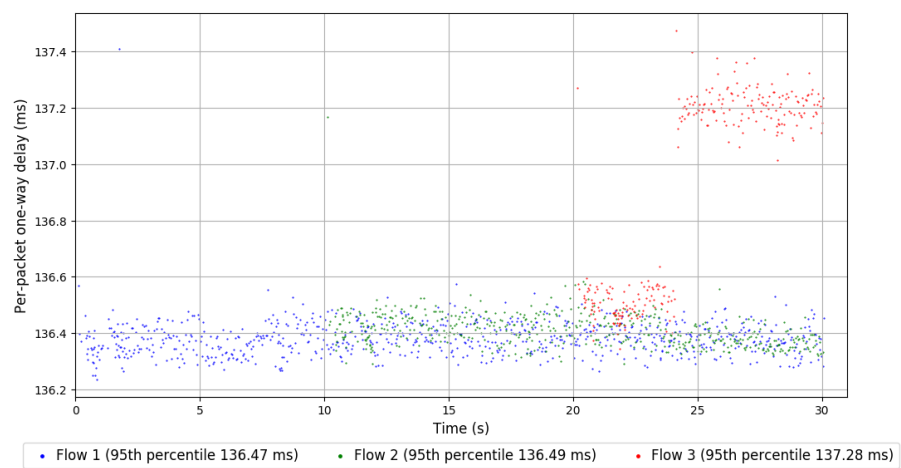
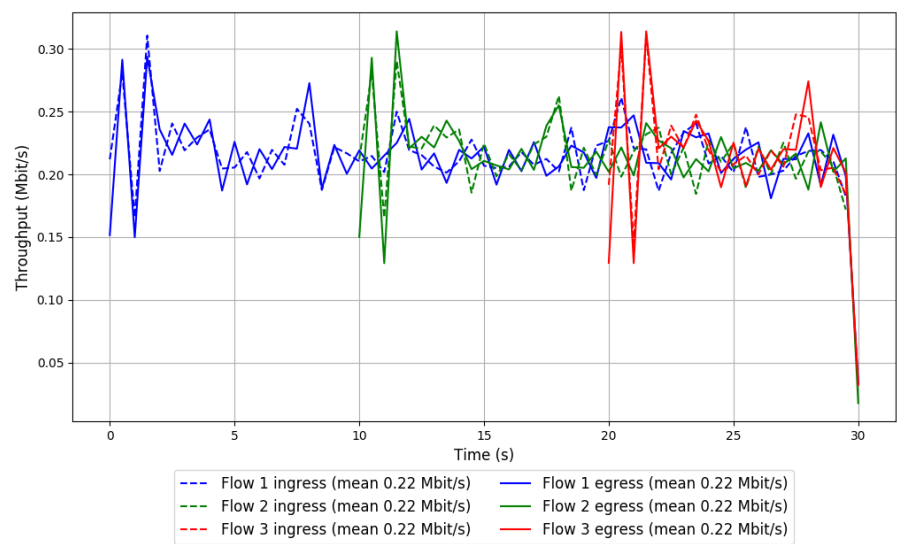


```
Run 4: Statistics of SReAM

Start at: 2018-01-27 03:02:28
End at: 2018-01-27 03:02:58

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.209 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.491 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.279 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-27 03:19:05

End at: 2018-01-27 03:19:35

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.211 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.301 ms

Loss rate: 0.00%

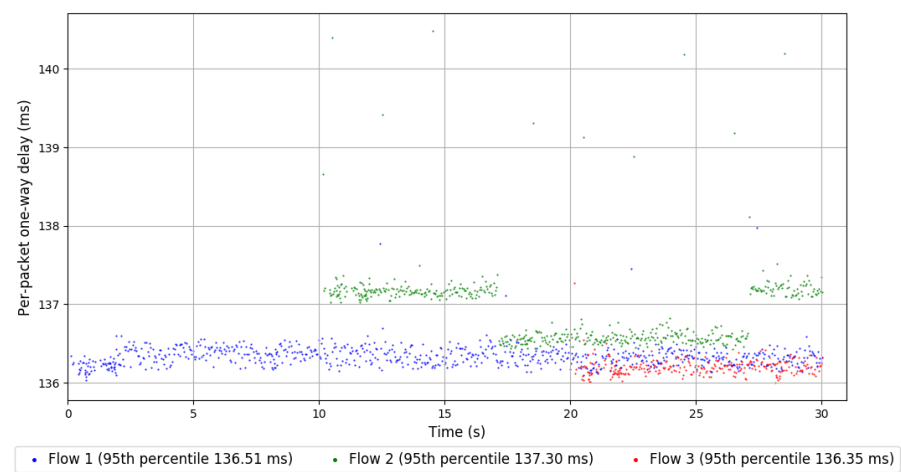
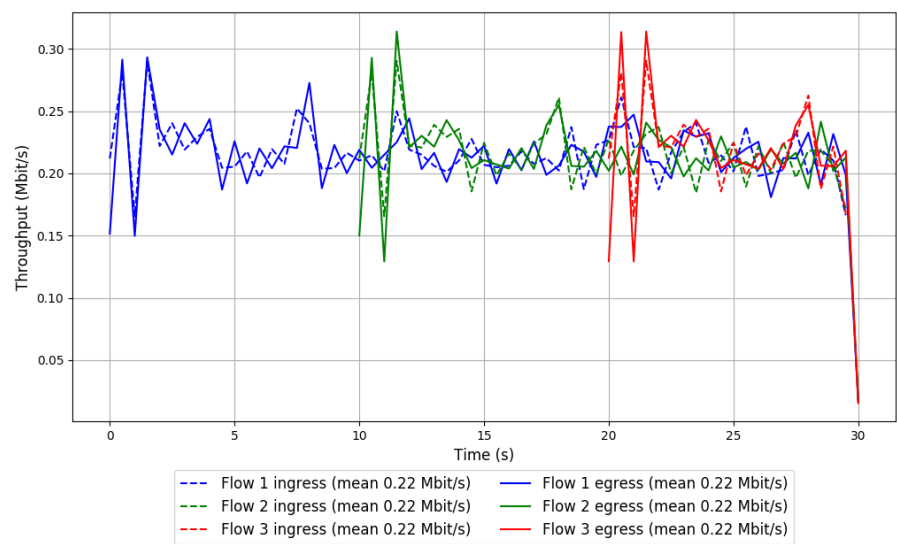
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.348 ms

Loss rate: 0.00%

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-27 03:35:00

End at: 2018-01-27 03:35:30

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.206 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.453 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.237 ms

Loss rate: 0.00%

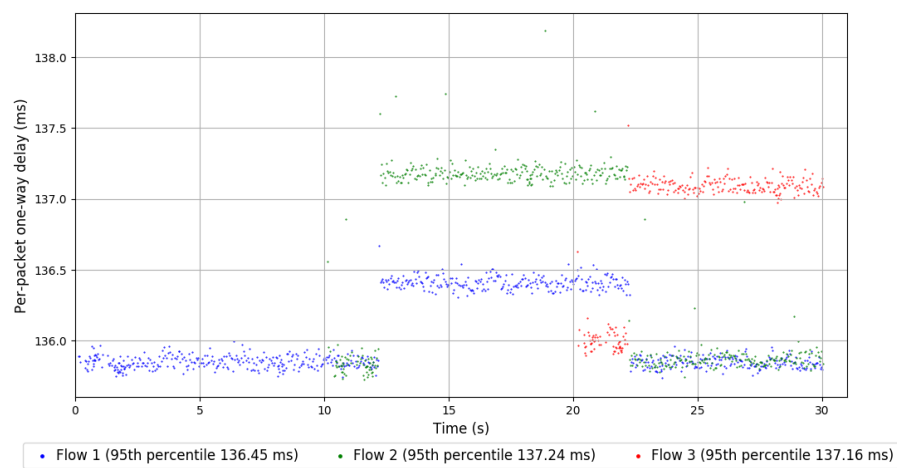
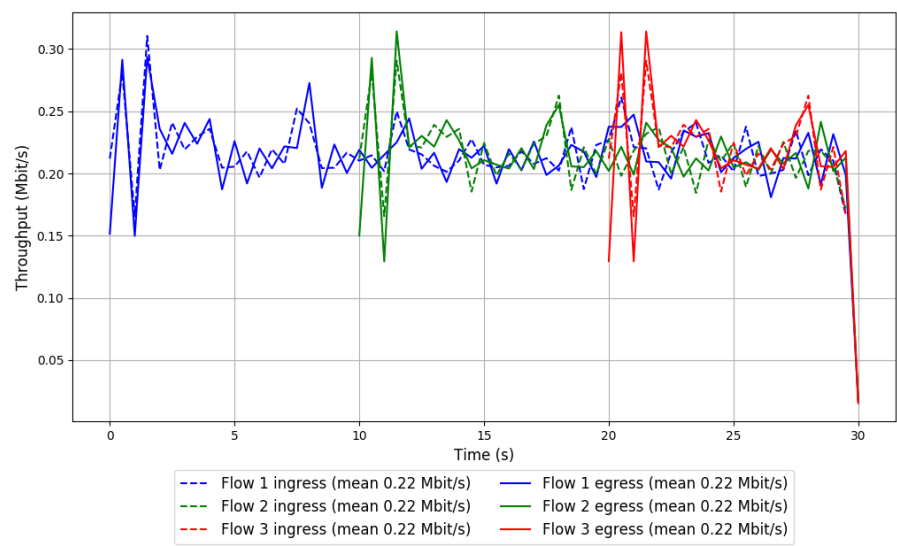
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.161 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

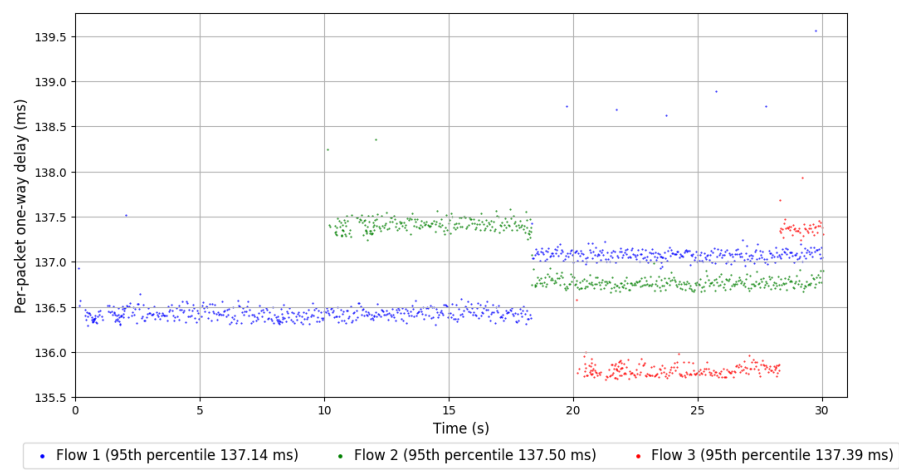
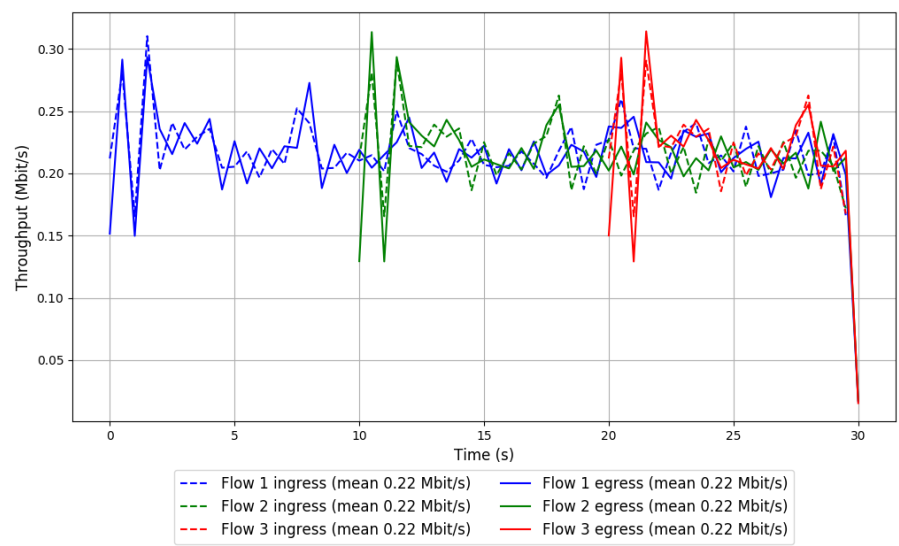


```
Run 7: Statistics of SCReAM

Start at: 2018-01-27 03:51:14
End at: 2018-01-27 03:51:44

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.138 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.389 ms
Loss rate: 0.00%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-27 04:07:29

End at: 2018-01-27 04:07:59

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.873 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.872 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.832 ms

Loss rate: 0.00%

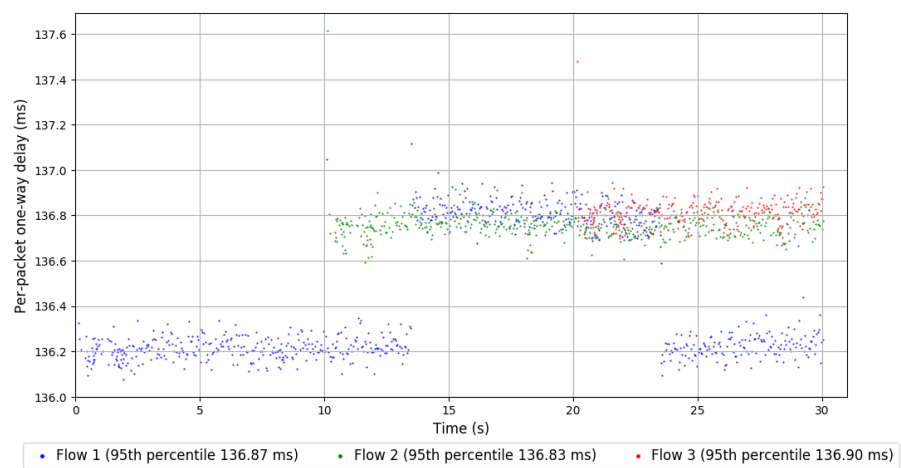
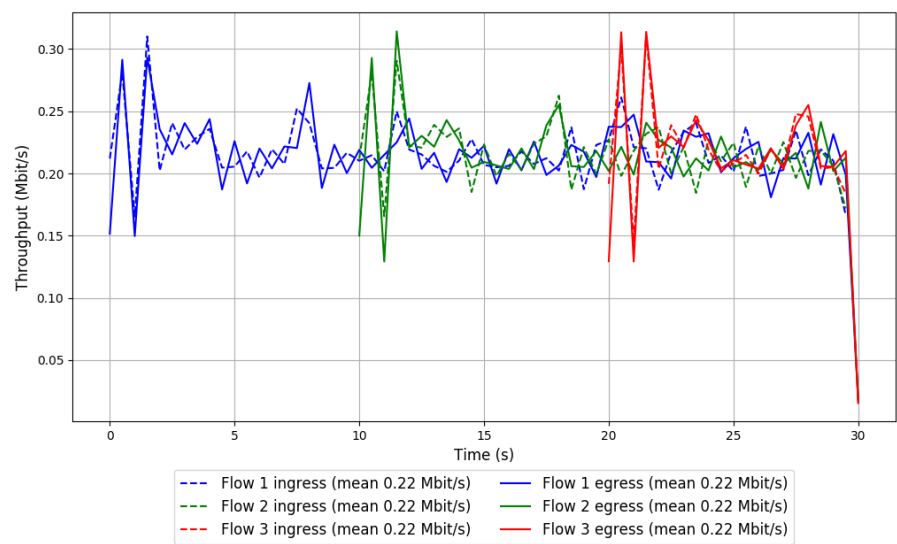
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.898 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-27 04:23:32

End at: 2018-01-27 04:24:02

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 137.333 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.803 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.387 ms

Loss rate: 0.00%

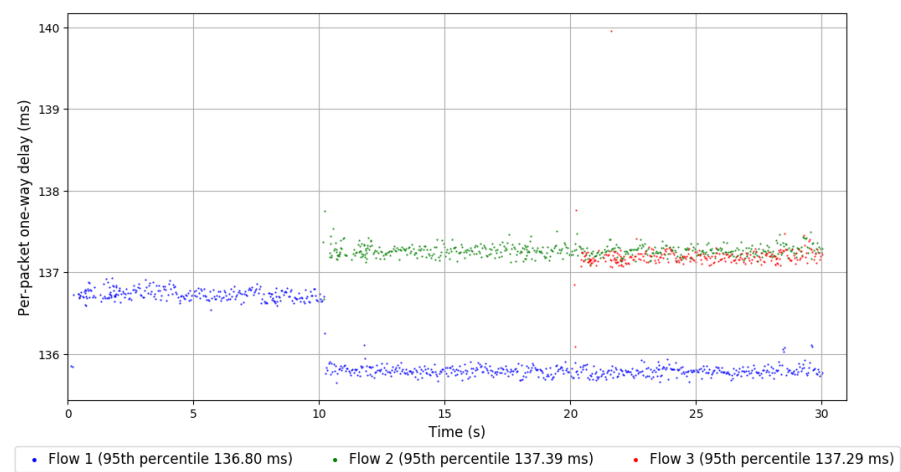
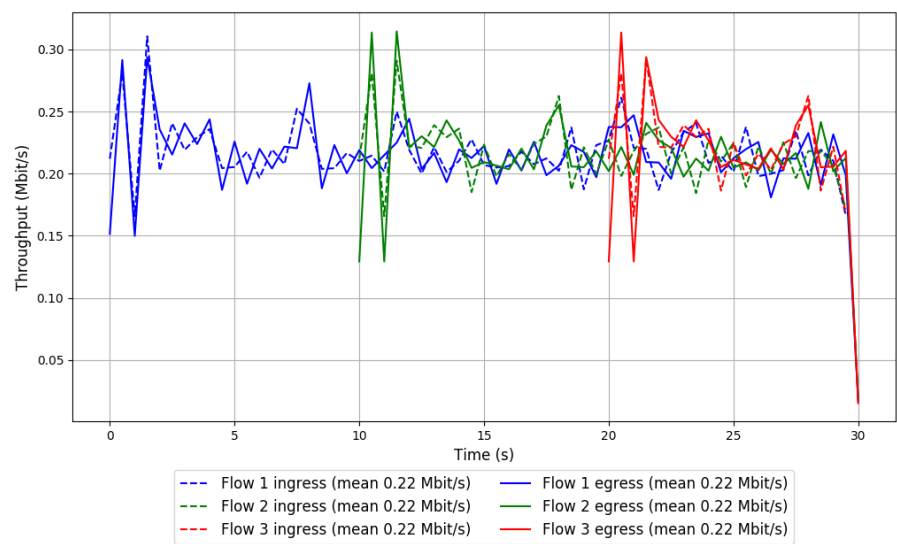
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.292 ms

Loss rate: 0.00%

Run 9: Report of SCReAM — Data Link

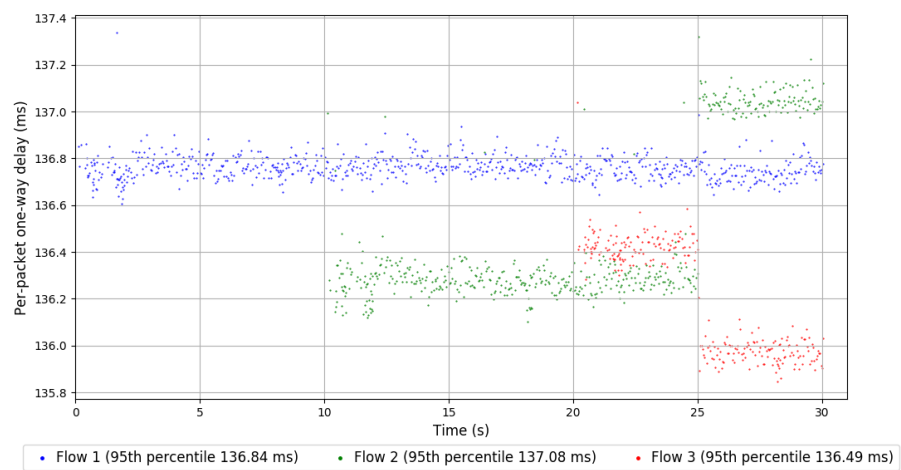
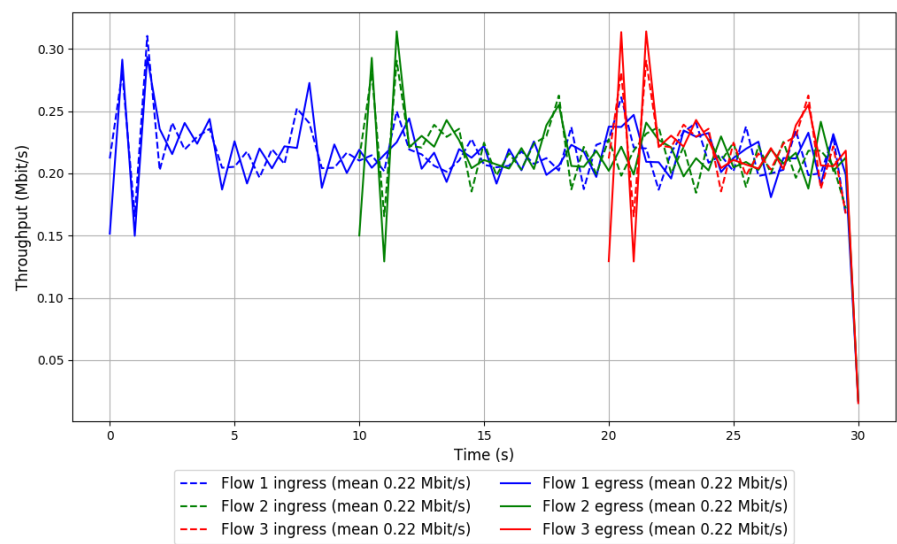


```
Run 10: Statistics of SReAM

Start at: 2018-01-27 04:39:58
End at: 2018-01-27 04:40:28

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.843 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.079 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.487 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

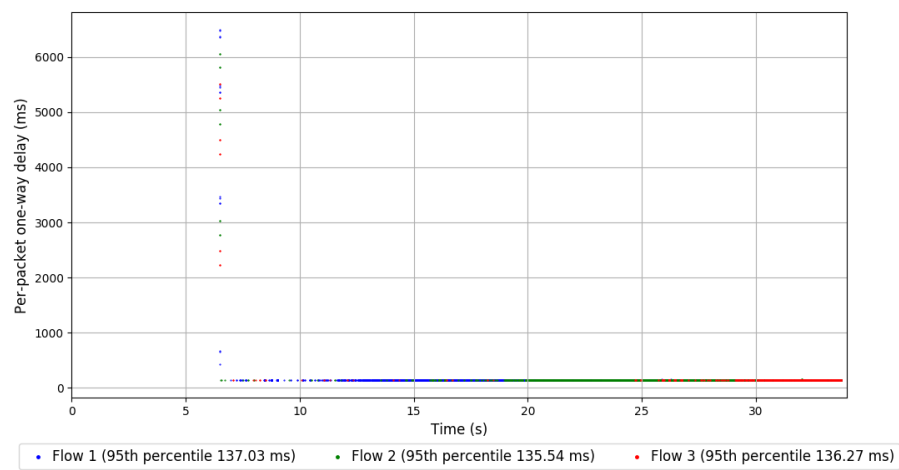
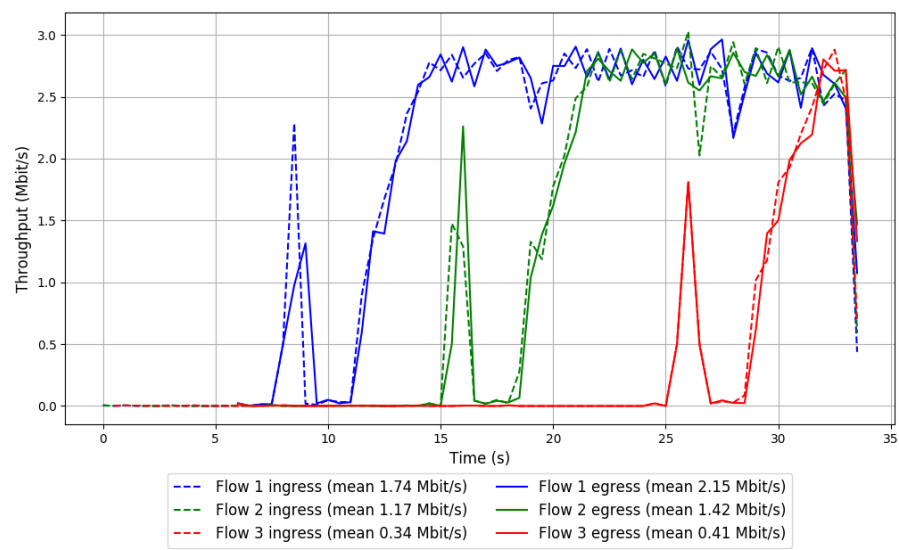


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-27 02:18:39
End at: 2018-01-27 02:19:09

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 136.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 137.025 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 135.538 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.267 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

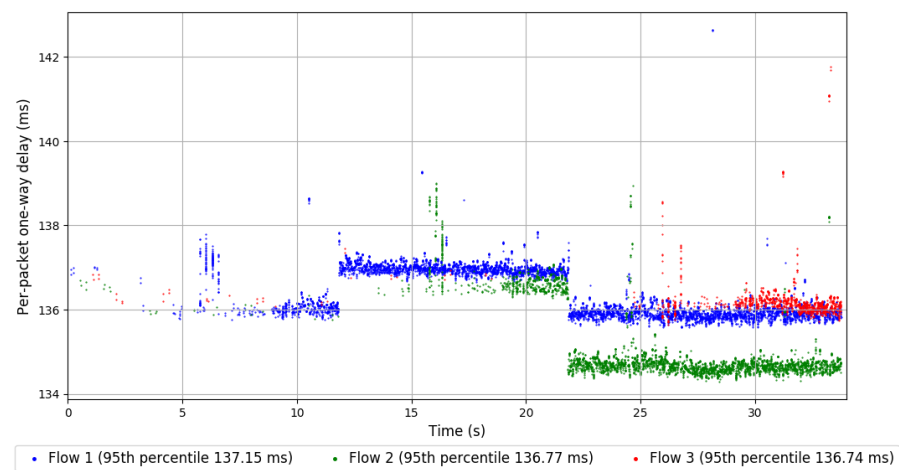
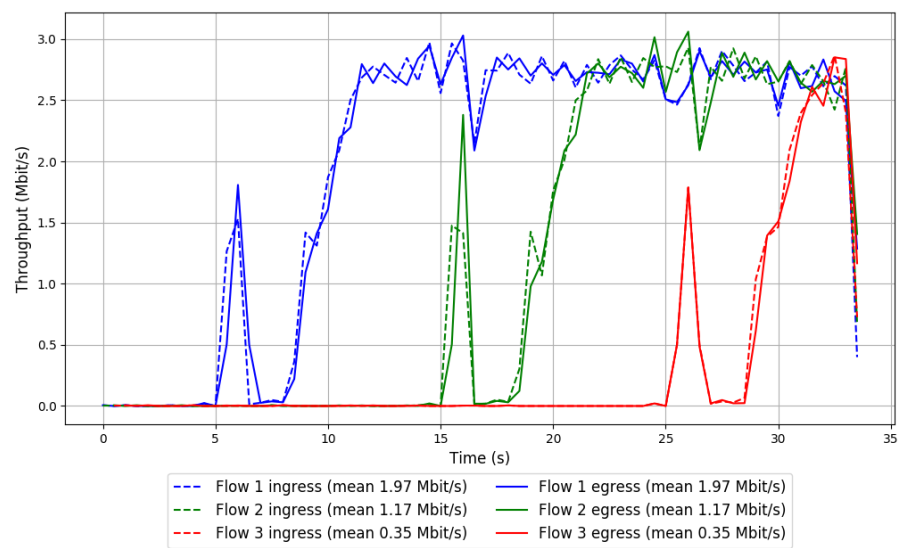


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-27 02:34:24
End at: 2018-01-27 02:34:54

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 137.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 137.151 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 136.771 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 136.742 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-27 02:50:28

End at: 2018-01-27 02:50:58

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 137.131 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 137.167 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 136.745 ms

Loss rate: 0.03%

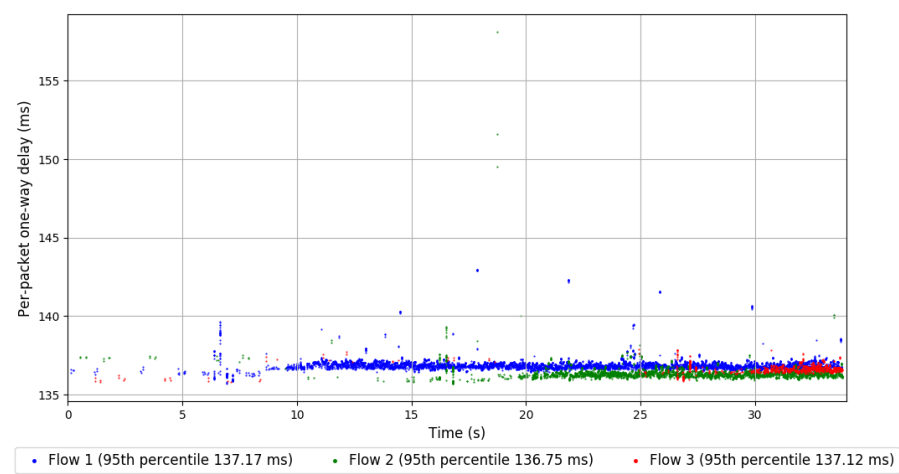
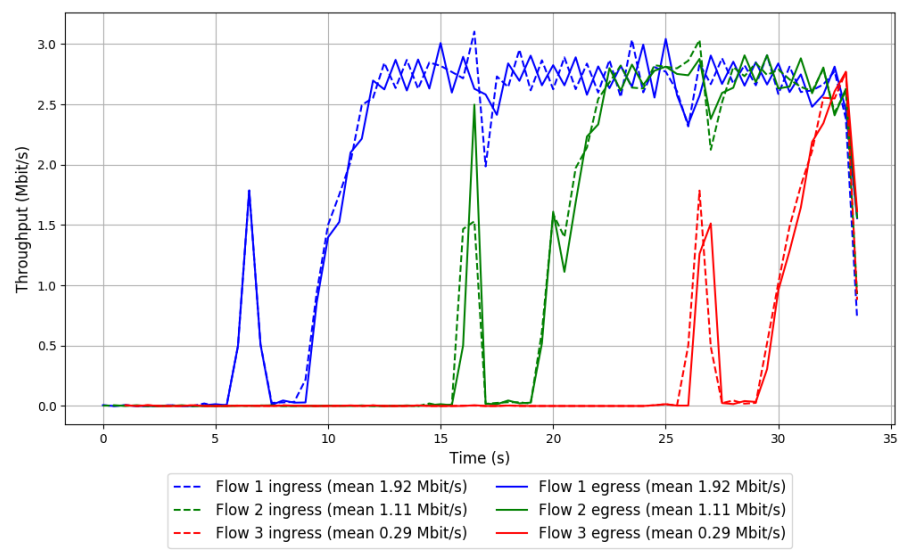
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 137.119 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

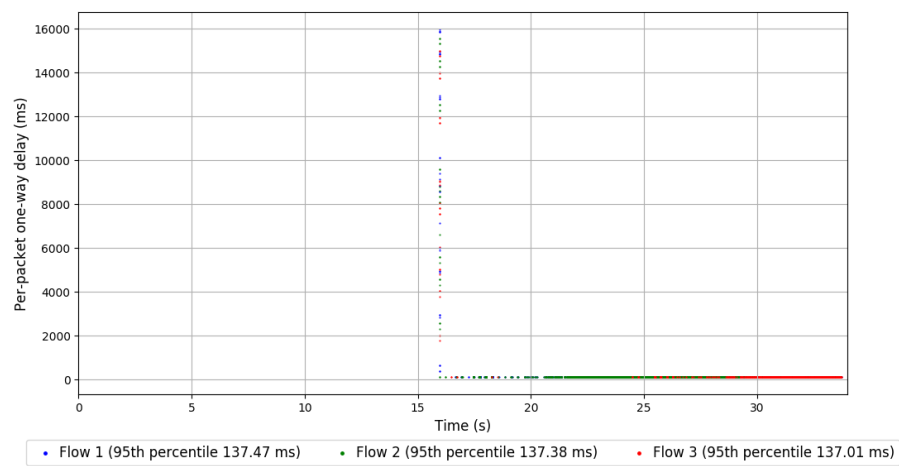
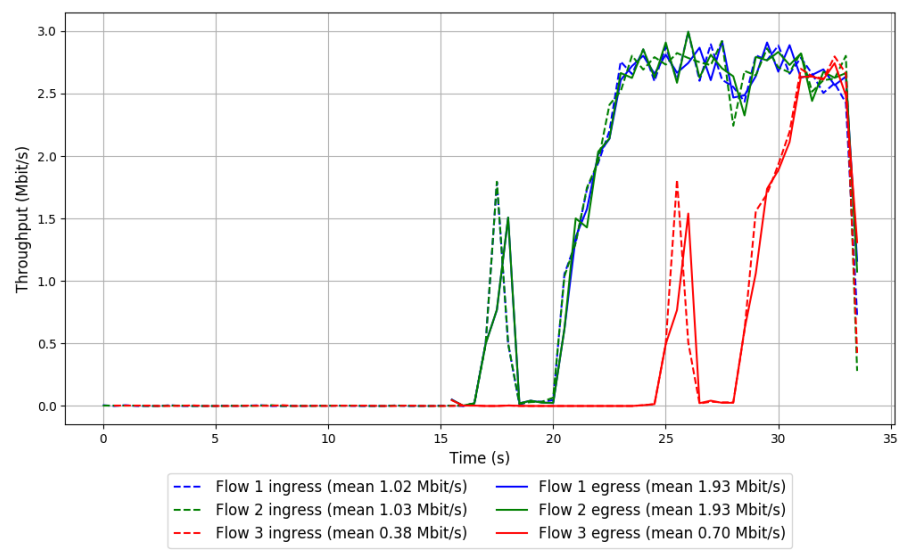


Run 4: Statistics of WebRTC media

Start at: 2018-01-27 03:06:47

End at: 2018-01-27 03:07:17

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-27 03:22:59

End at: 2018-01-27 03:23:29

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 137.177 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 136.621 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 137.330 ms

Loss rate: 0.00%

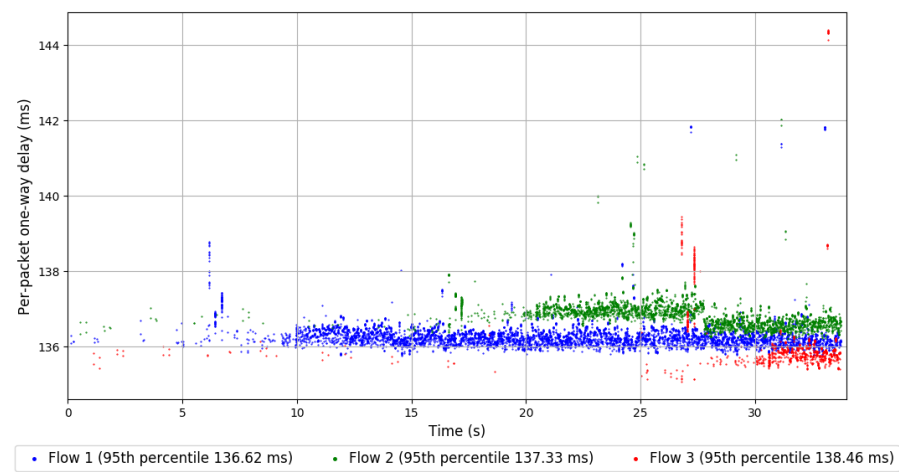
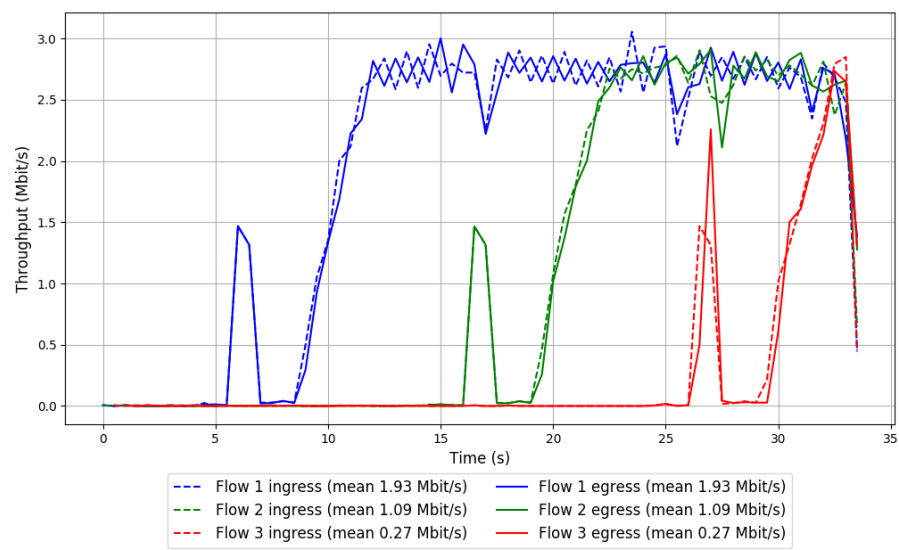
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 138.461 ms

Loss rate: 0.11%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-27 03:38:59

End at: 2018-01-27 03:39:29

Run 6: Report of WebRTC media — Data Link

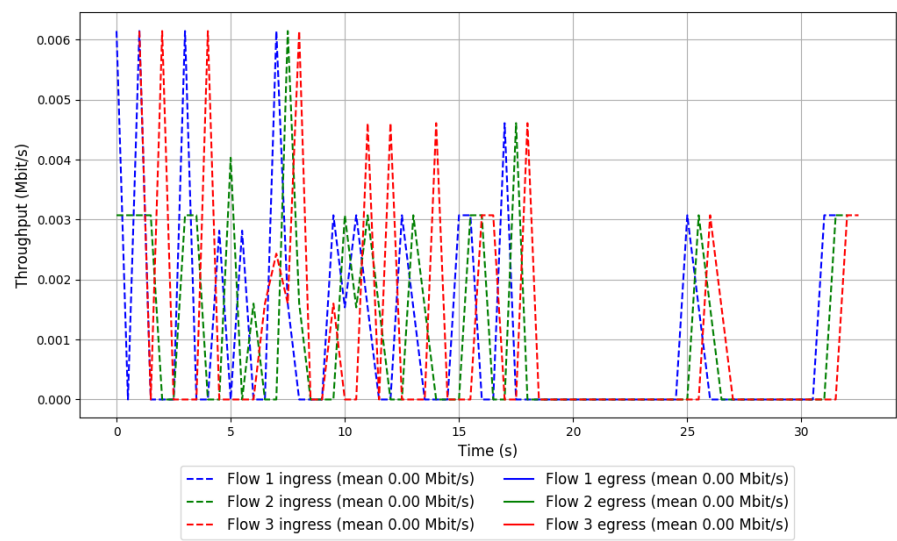


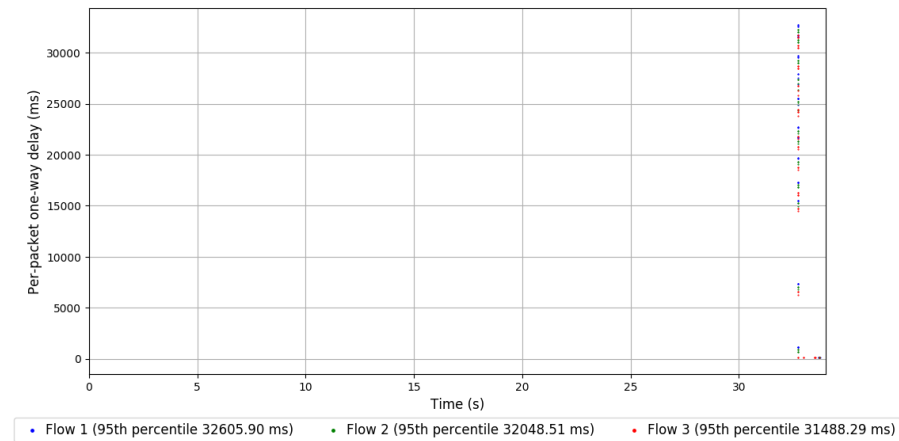
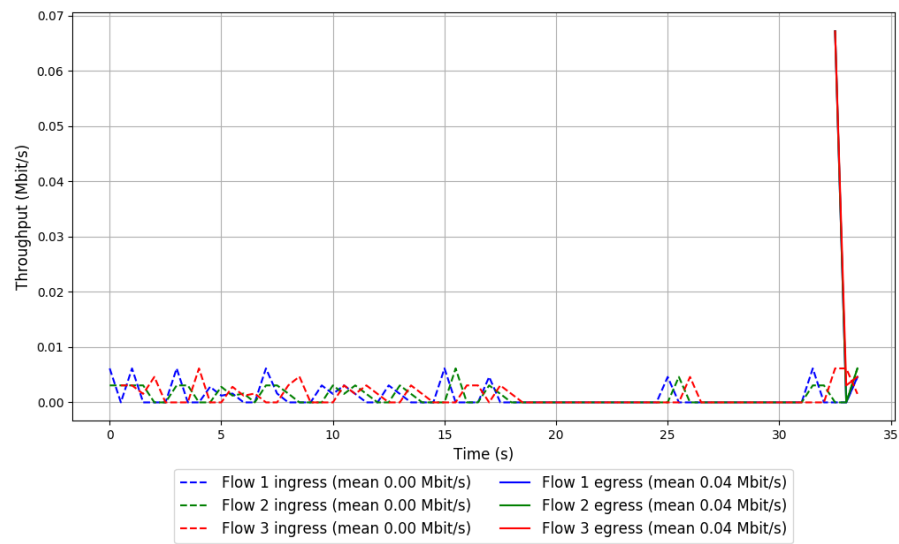
Figure is missing

Run 7: Statistics of WebRTC media

Start at: 2018-01-27 03:55:15

End at: 2018-01-27 03:55:45

Run 7: Report of WebRTC media — Data Link

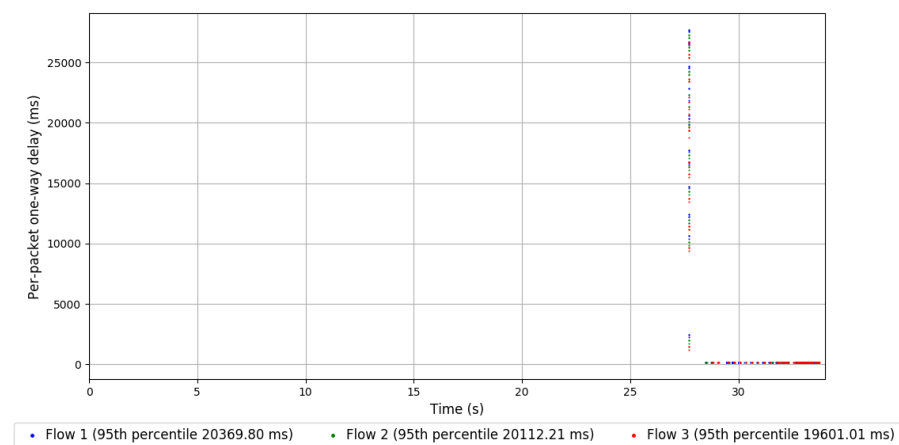
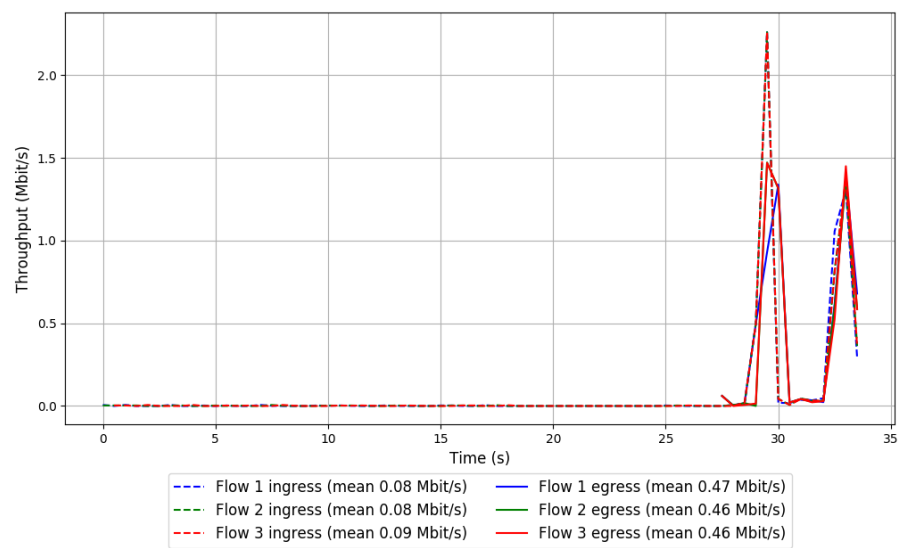


Run 8: Statistics of WebRTC media

Start at: 2018-01-27 04:11:35

End at: 2018-01-27 04:12:05

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-27 04:27:45

End at: 2018-01-27 04:28:15

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.53 Mbit/s

95th percentile per-packet one-way delay: 137.497 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 137.535 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 136.005 ms

Loss rate: 0.00%

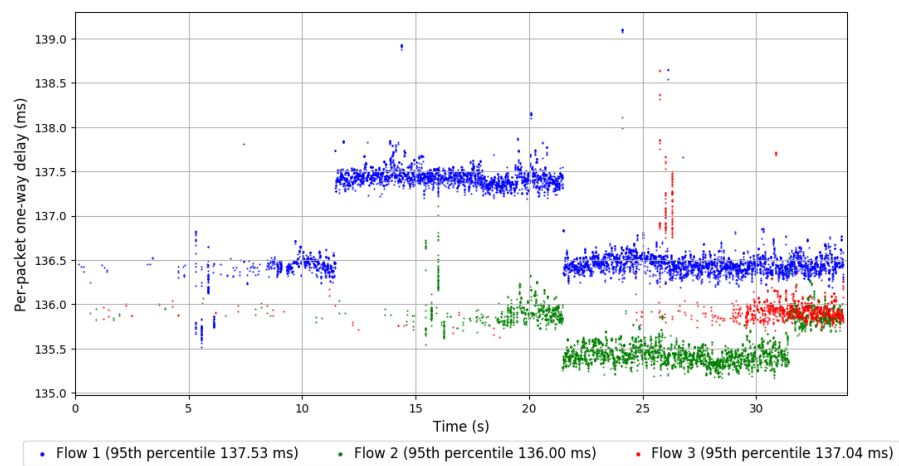
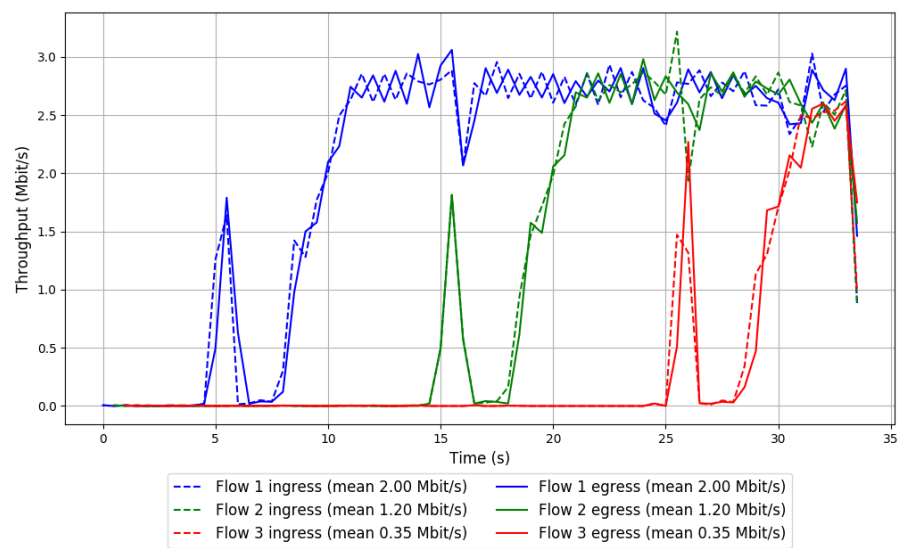
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 137.044 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-27 04:43:55

End at: 2018-01-27 04:44:25

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 137.321 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 137.356 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 136.821 ms

Loss rate: 0.00%

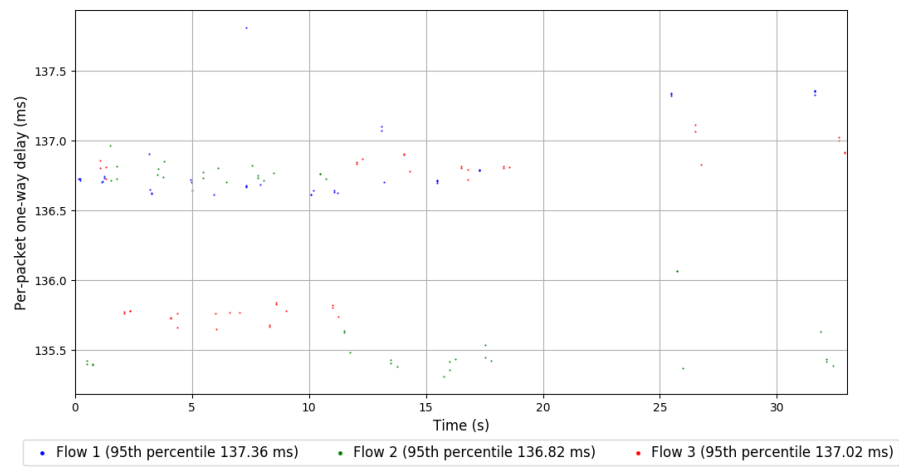
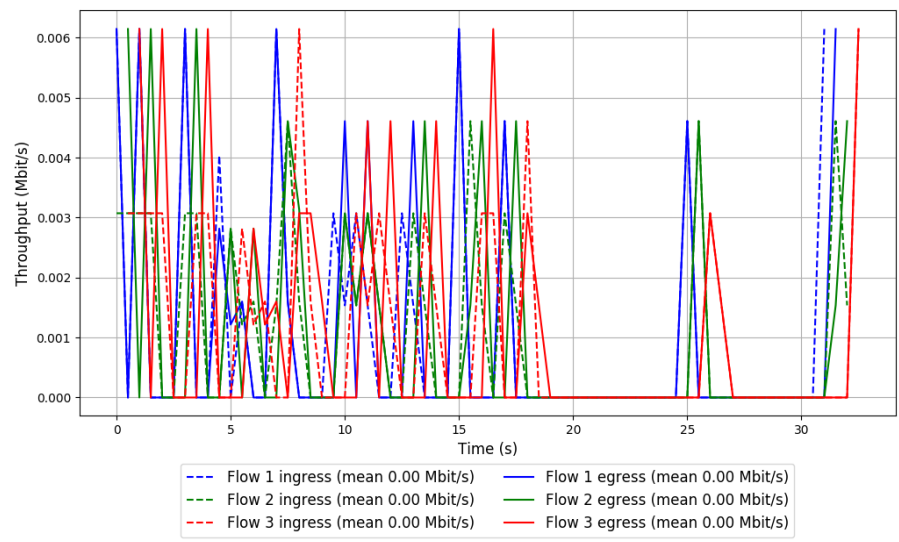
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 137.021 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

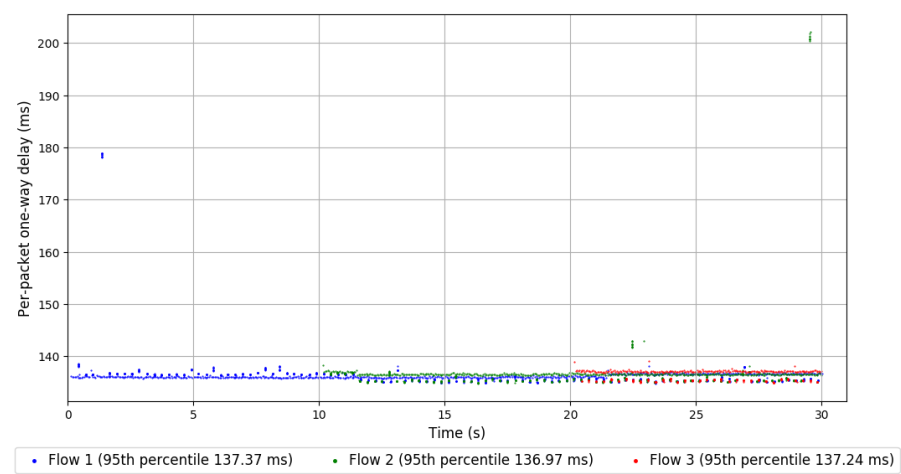
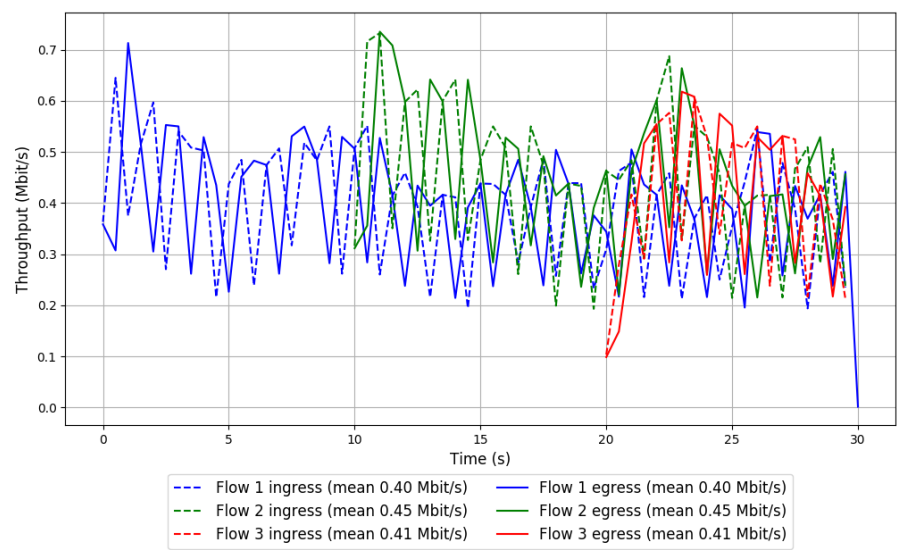


```
Run 1: Statistics of Sprout

Start at: 2018-01-27 02:21:41
End at: 2018-01-27 02:22:11

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 137.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 137.372 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 136.975 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 137.244 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-27 02:37:29

End at: 2018-01-27 02:37:59

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.78 Mbit/s

95th percentile per-packet one-way delay: 136.968 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.850 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.021 ms

Loss rate: 0.00%

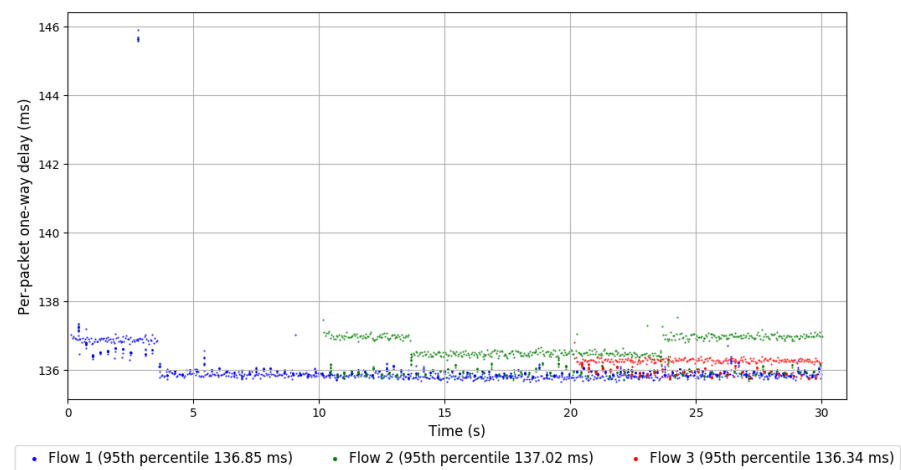
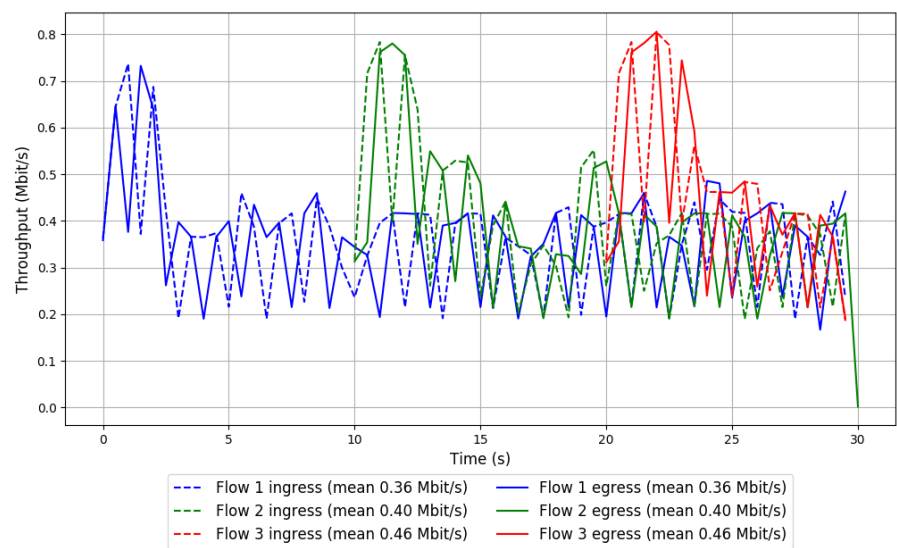
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.337 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-27 02:53:25

End at: 2018-01-27 02:53:55

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.88 Mbit/s

95th percentile per-packet one-way delay: 137.156 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.150 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 137.239 ms

Loss rate: 0.00%

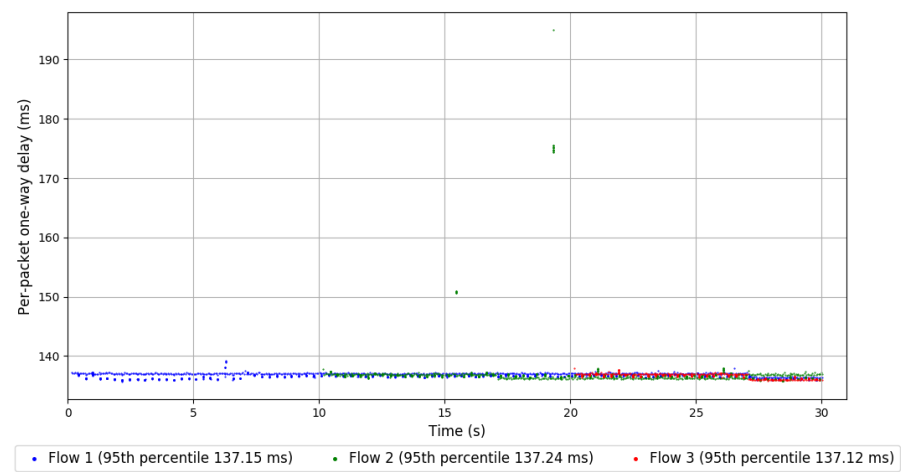
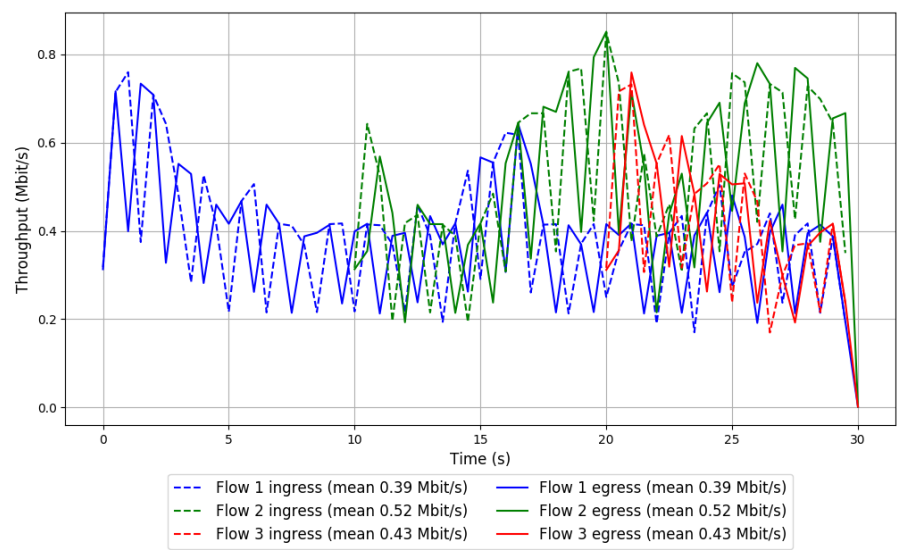
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.121 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-27 03:10:06

End at: 2018-01-27 03:10:36

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 137.011 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.002 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.021 ms

Loss rate: 0.00%

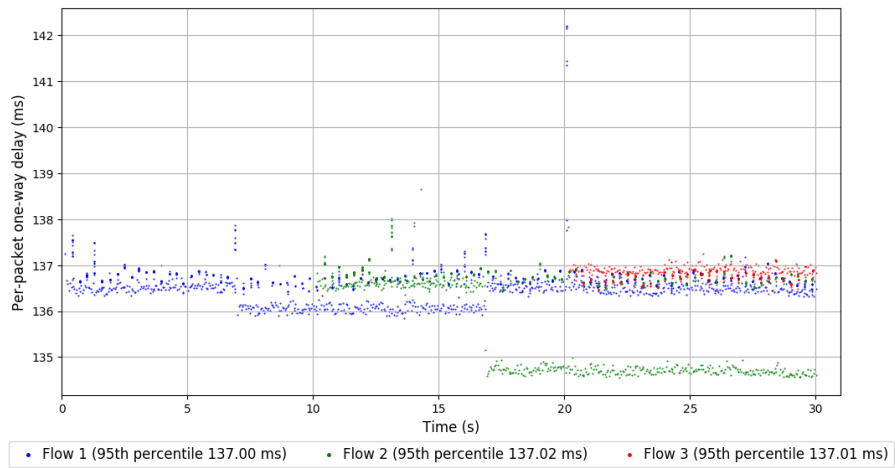
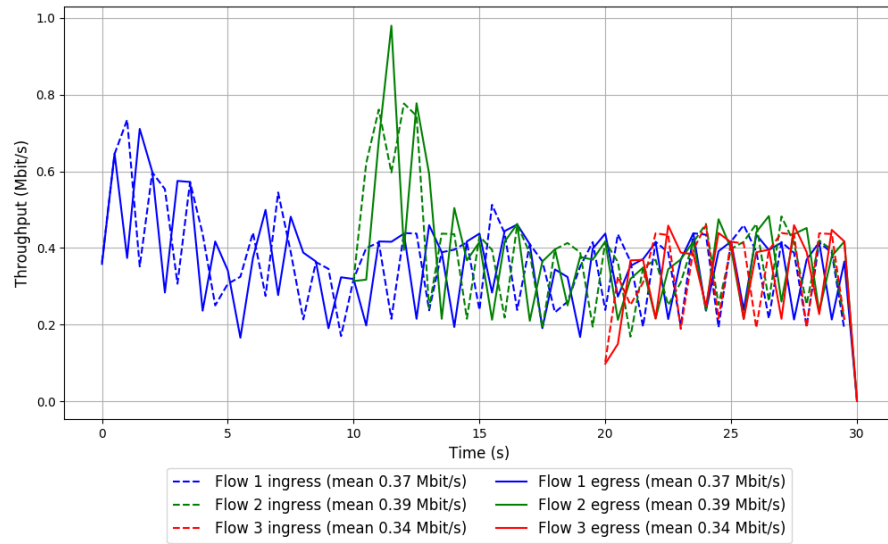
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 137.011 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-27 03:26:06

End at: 2018-01-27 03:26:36

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 137.407 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.604 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 137.114 ms

Loss rate: 0.00%

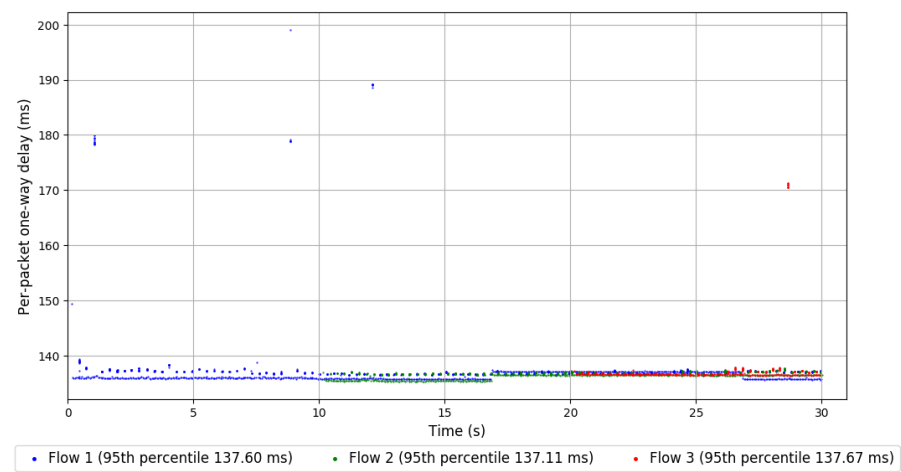
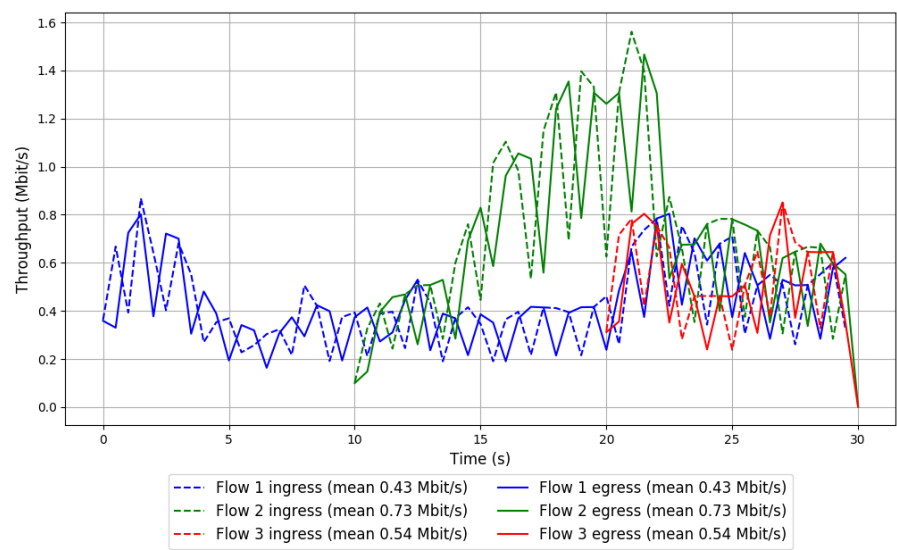
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 137.674 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-27 03:42:10

End at: 2018-01-27 03:42:40

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.79 Mbit/s

95th percentile per-packet one-way delay: 137.530 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.510 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 137.547 ms

Loss rate: 0.00%

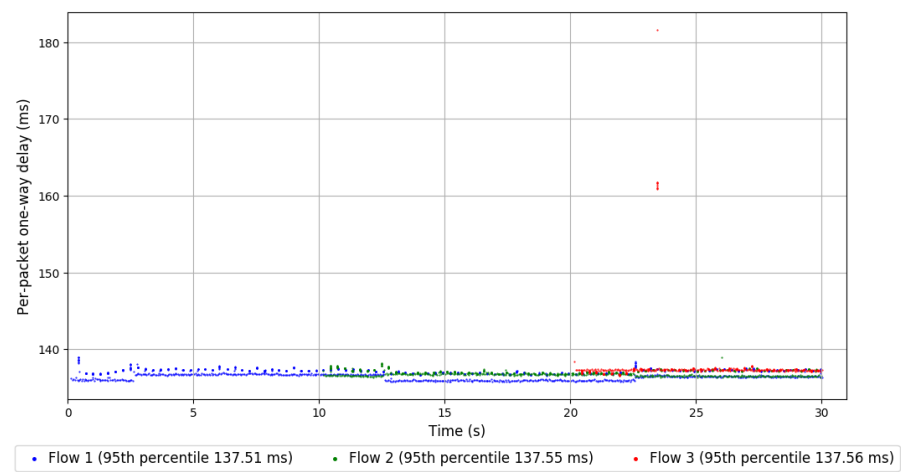
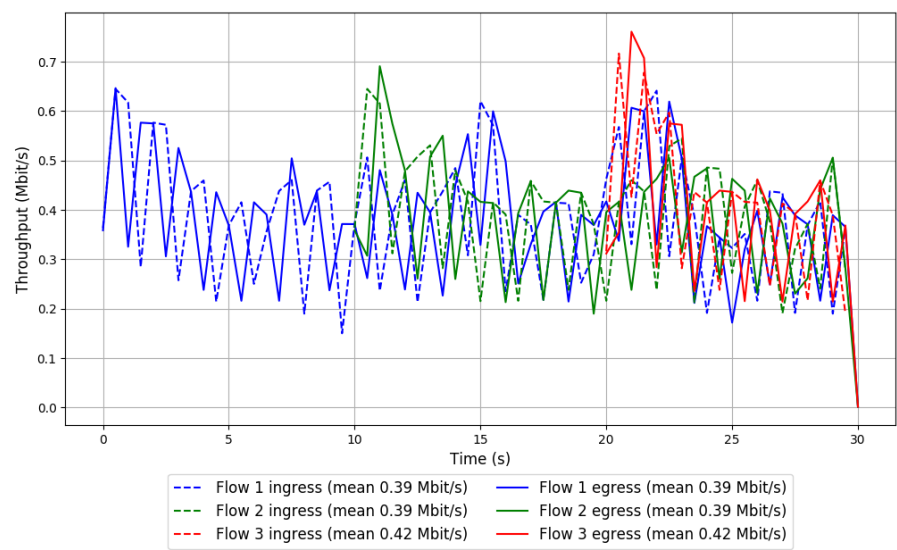
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.561 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-27 03:58:25

End at: 2018-01-27 03:58:55

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 137.052 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.019 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.085 ms

Loss rate: 0.00%

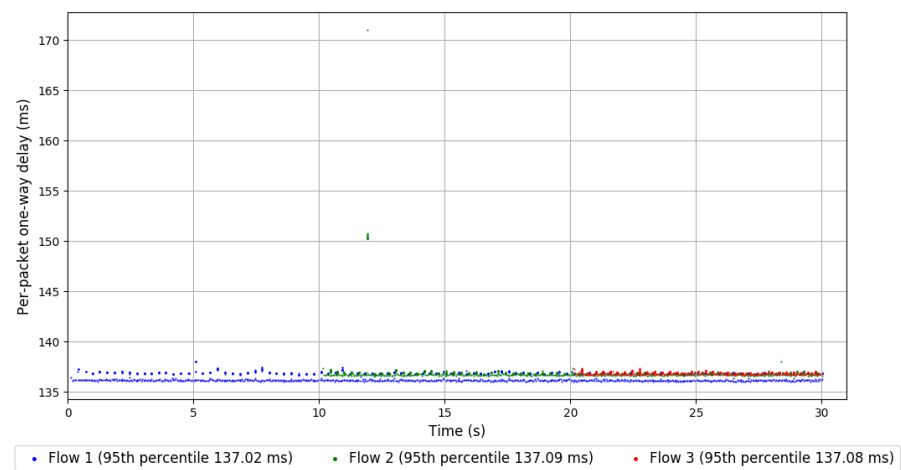
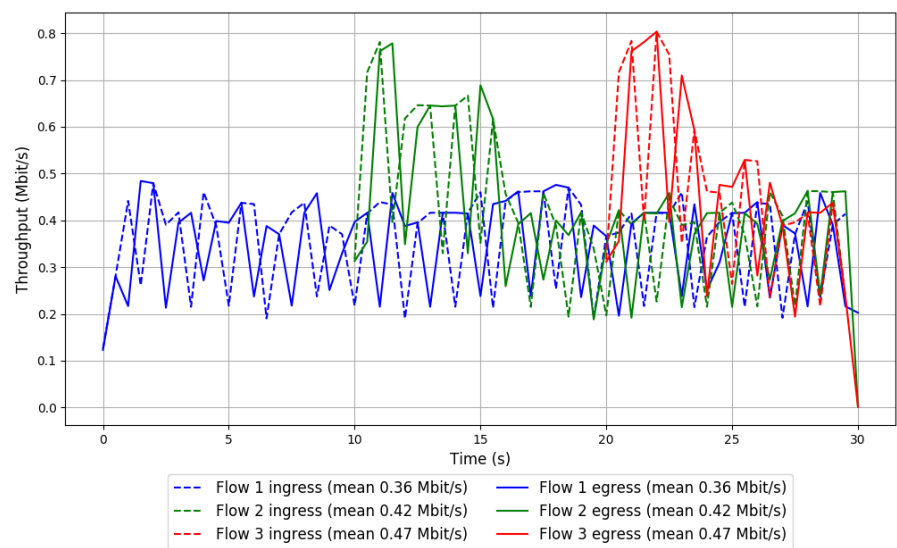
-- Flow 3:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 137.077 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-27 04:14:43

End at: 2018-01-27 04:15:13

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 137.311 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 137.370 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 137.098 ms

Loss rate: 0.00%

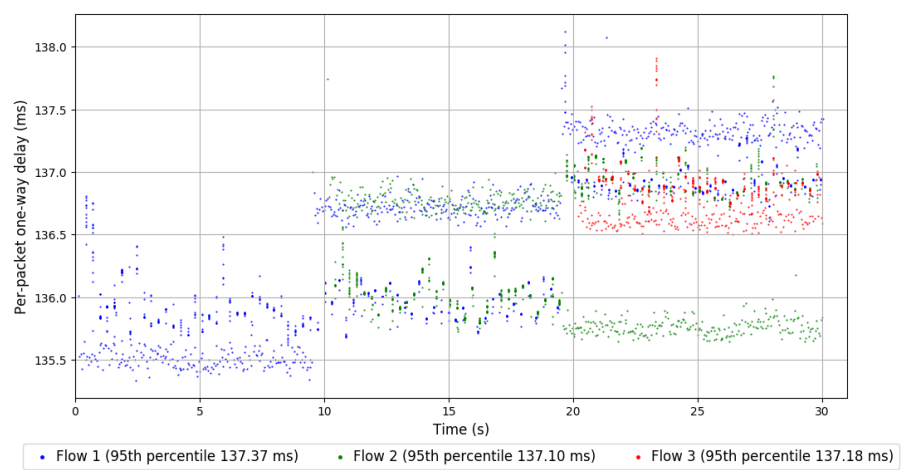
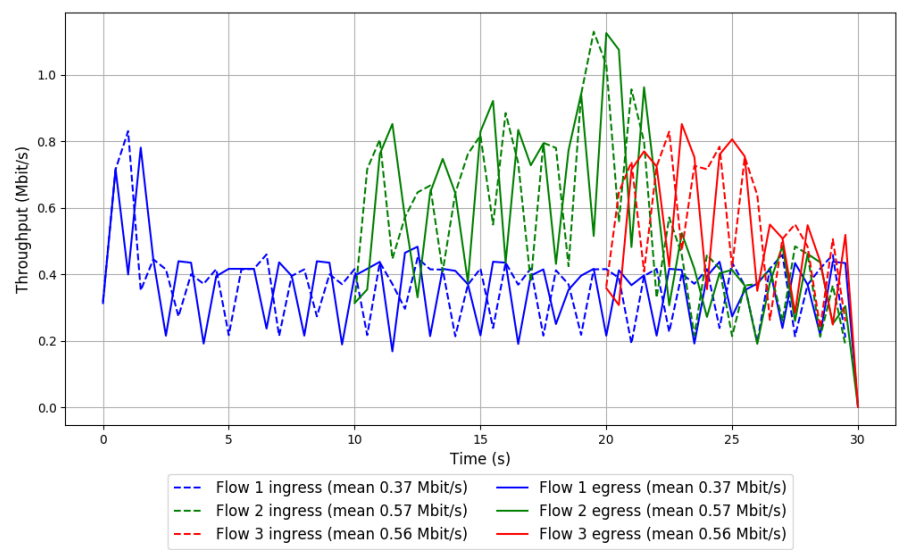
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 137.175 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-27 04:30:56

End at: 2018-01-27 04:31:26

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.83 Mbit/s

95th percentile per-packet one-way delay: 137.189 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.990 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 137.222 ms

Loss rate: 0.00%

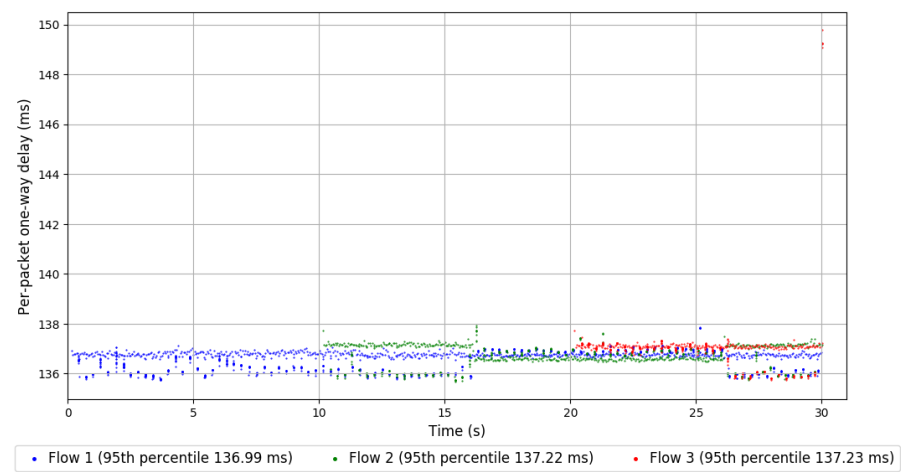
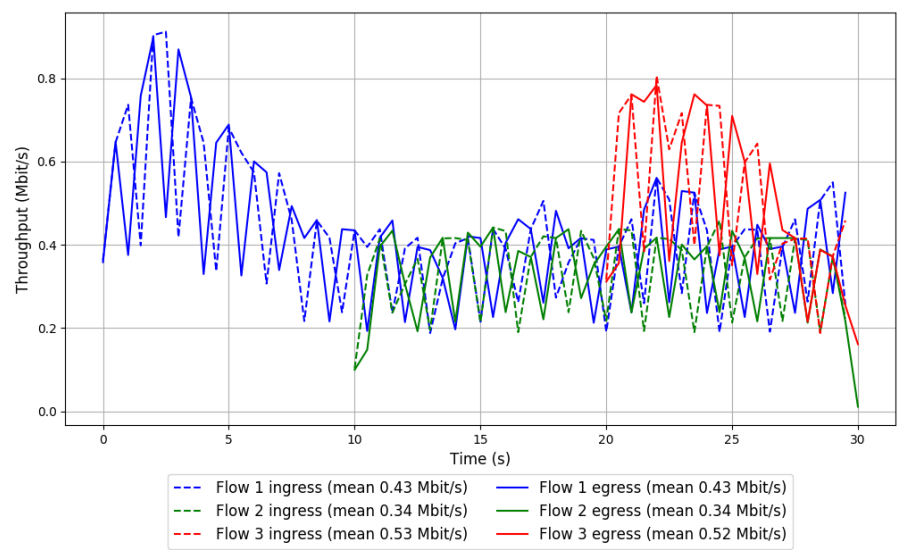
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 137.234 ms

Loss rate: 0.46%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-27 04:47:07

End at: 2018-01-27 04:47:37

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 137.302 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.338 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.023 ms

Loss rate: 0.00%

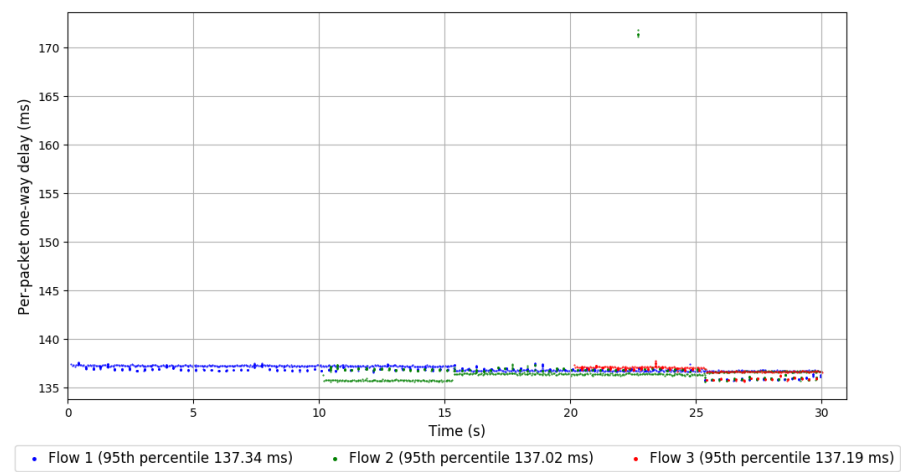
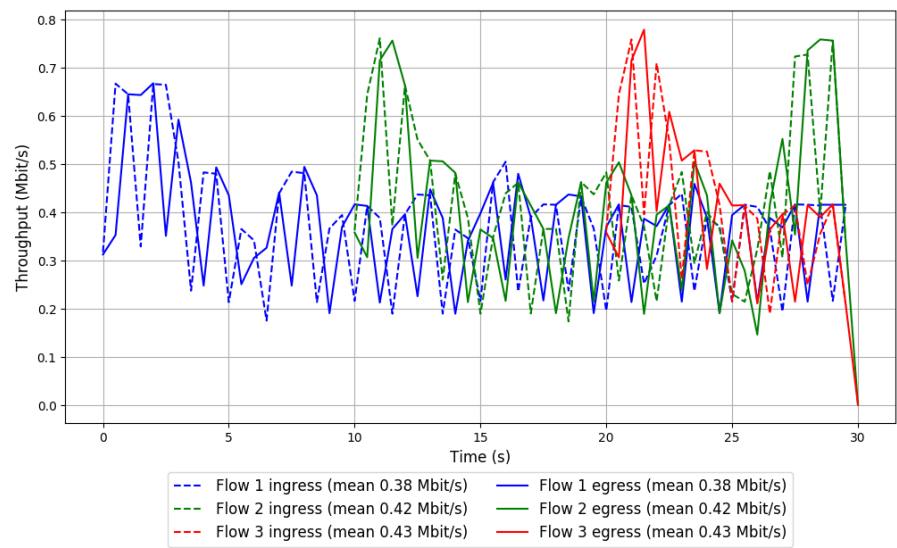
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.190 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

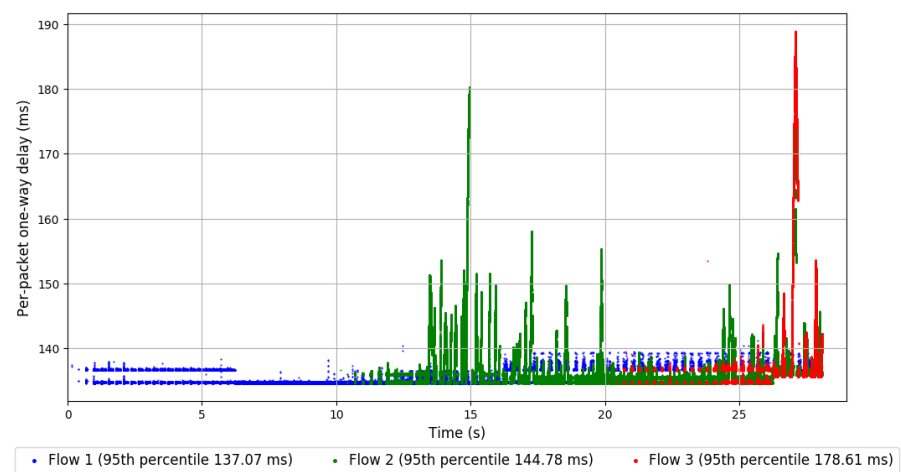
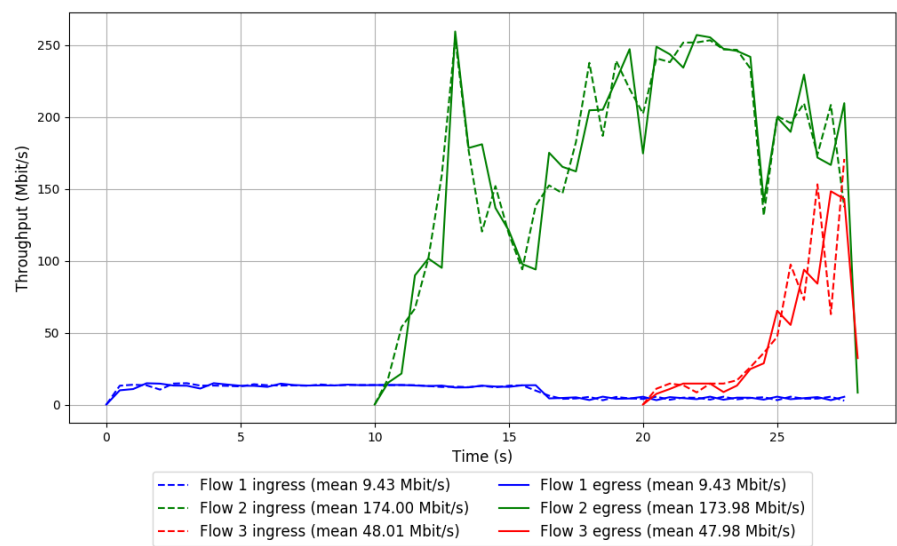


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-27 02:17:34
End at: 2018-01-27 02:18:04

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 134.68 Mbit/s
95th percentile per-packet one-way delay: 146.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 137.069 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.98 Mbit/s
95th percentile per-packet one-way delay: 144.778 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 178.611 ms
Loss rate: 0.00%
```


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

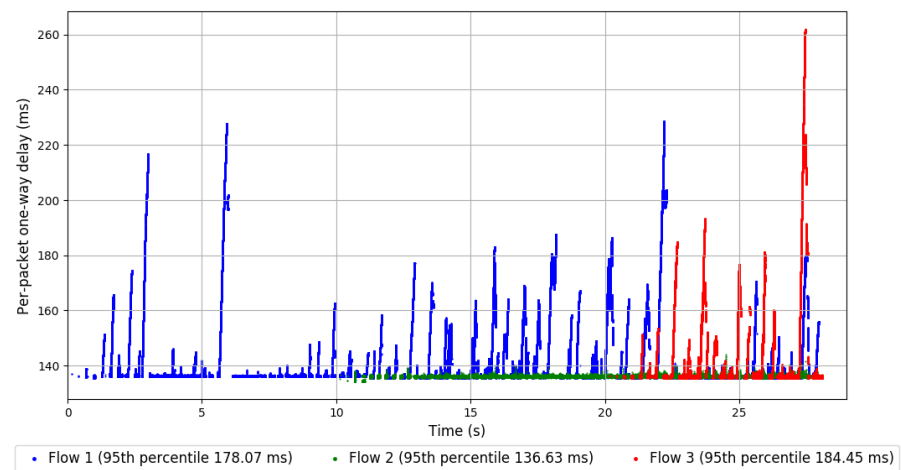
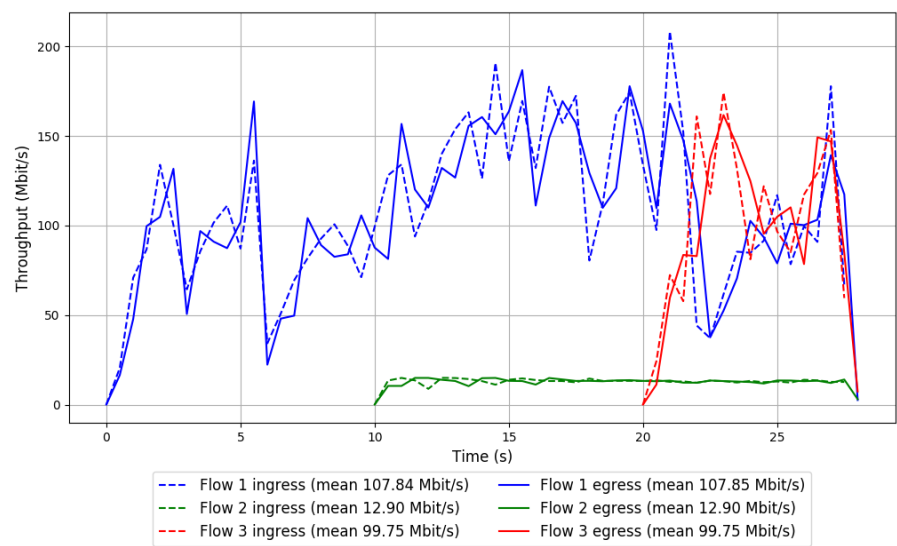


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-27 02:33:19
End at: 2018-01-27 02:33:49

# Below is generated by plot.py at 2018-01-27 06:08:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.43 Mbit/s
95th percentile per-packet one-way delay: 179.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.85 Mbit/s
95th percentile per-packet one-way delay: 178.068 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.90 Mbit/s
95th percentile per-packet one-way delay: 136.630 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.75 Mbit/s
95th percentile per-packet one-way delay: 184.451 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-27 02:49:20

End at: 2018-01-27 02:49:50

Below is generated by plot.py at 2018-01-27 06:08:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 170.76 Mbit/s

95th percentile per-packet one-way delay: 170.185 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 121.95 Mbit/s

95th percentile per-packet one-way delay: 167.164 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 35.47 Mbit/s

95th percentile per-packet one-way delay: 194.457 ms

Loss rate: 0.04%

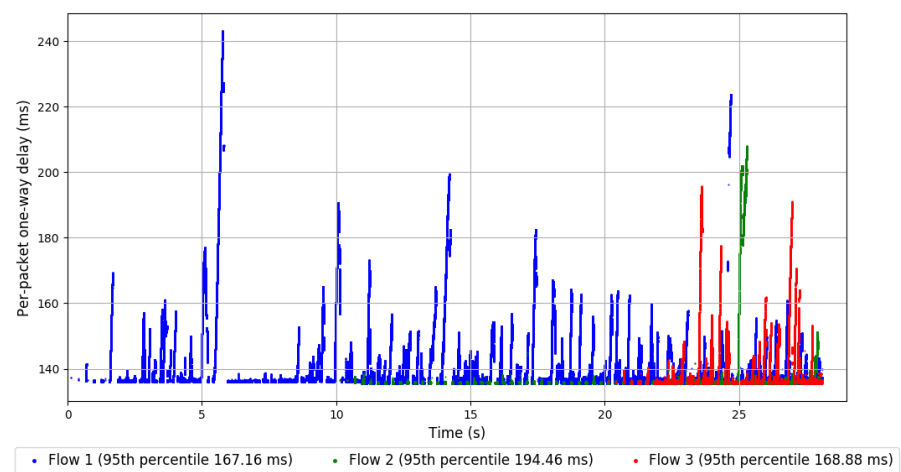
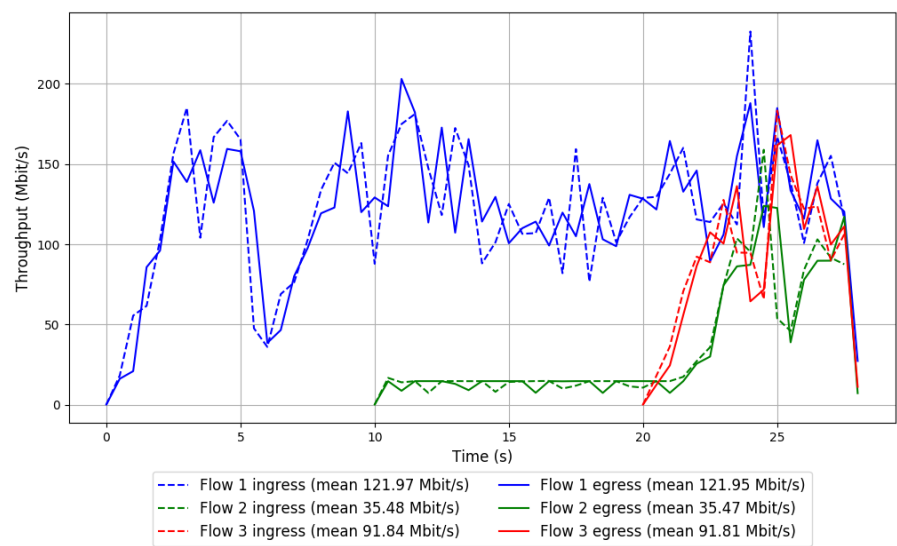
-- Flow 3:

Average throughput: 91.81 Mbit/s

95th percentile per-packet one-way delay: 168.880 ms

Loss rate: 0.03%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-27 03:05:22

End at: 2018-01-27 03:05:52

Below is generated by plot.py at 2018-01-27 06:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.07 Mbit/s

95th percentile per-packet one-way delay: 145.469 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.32 Mbit/s

95th percentile per-packet one-way delay: 148.171 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 176.47 Mbit/s

95th percentile per-packet one-way delay: 141.686 ms

Loss rate: 0.00%

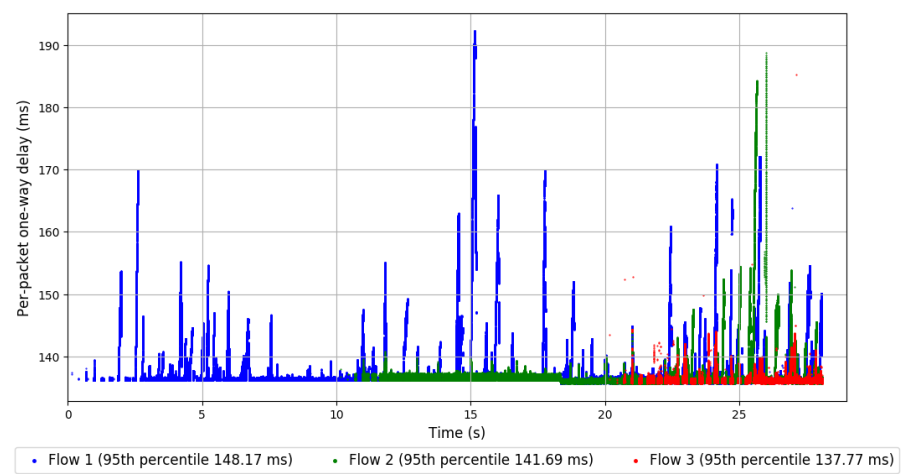
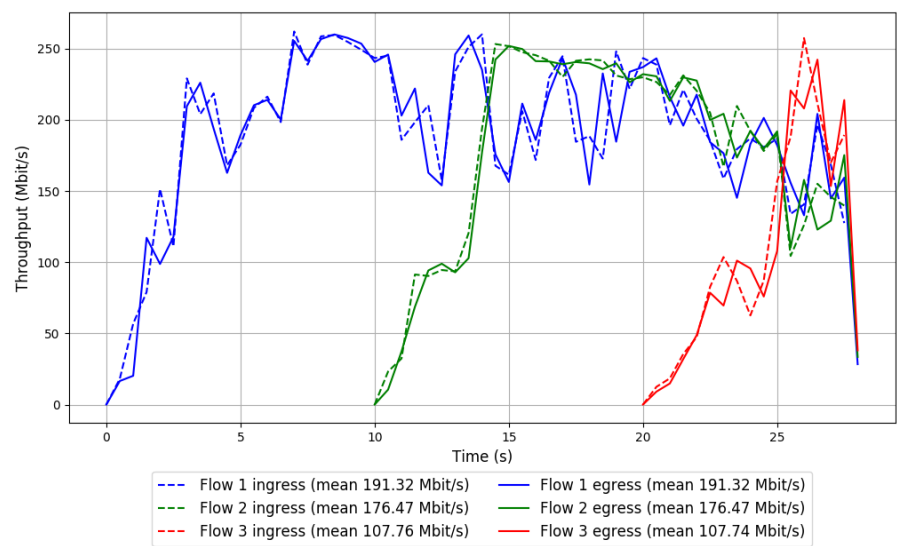
-- Flow 3:

Average throughput: 107.74 Mbit/s

95th percentile per-packet one-way delay: 137.773 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-27 03:21:56

End at: 2018-01-27 03:22:26

Below is generated by plot.py at 2018-01-27 06:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 113.67 Mbit/s

95th percentile per-packet one-way delay: 157.589 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 50.14 Mbit/s

95th percentile per-packet one-way delay: 151.876 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 161.217 ms

Loss rate: 0.04%

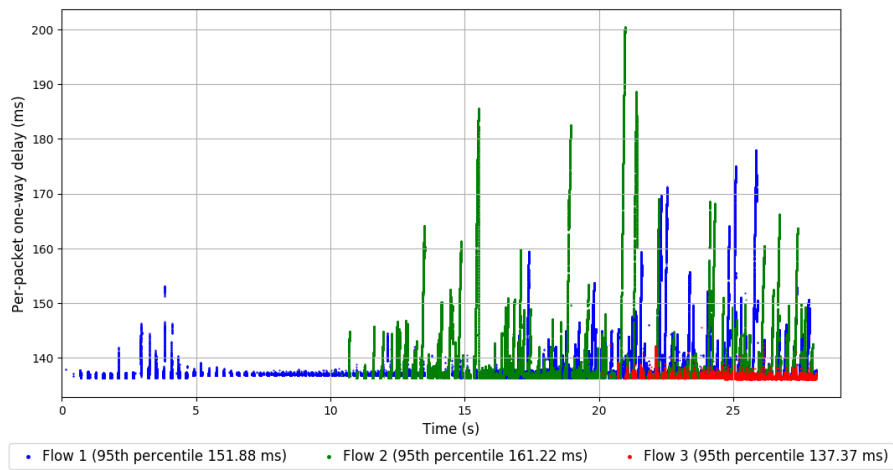
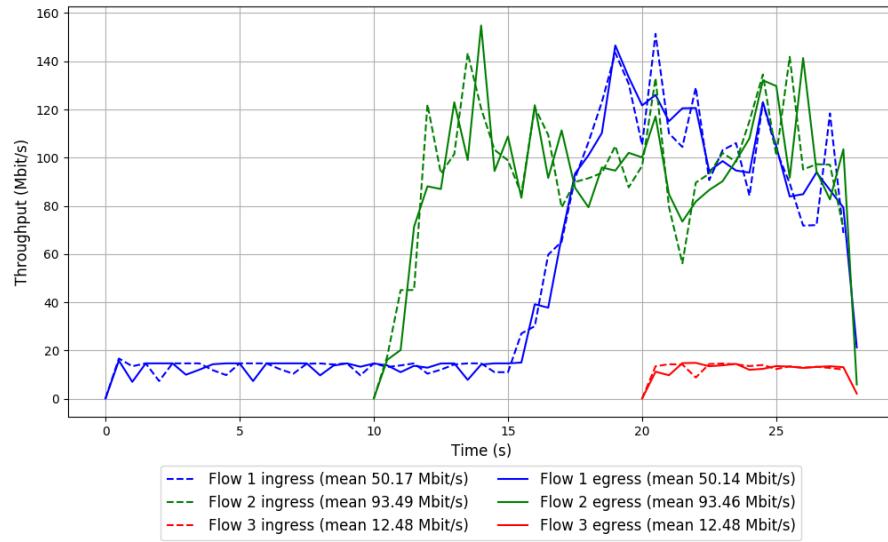
-- Flow 3:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 137.371 ms

Loss rate: 0.01%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-27 03:37:53

End at: 2018-01-27 03:38:23

Below is generated by plot.py at 2018-01-27 06:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 151.85 Mbit/s

95th percentile per-packet one-way delay: 155.834 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 137.158 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.38 Mbit/s

95th percentile per-packet one-way delay: 162.288 ms

Loss rate: 0.00%

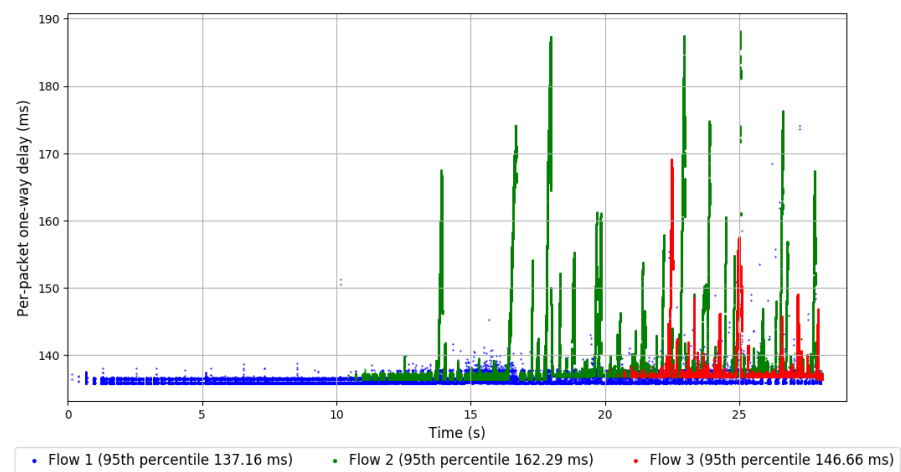
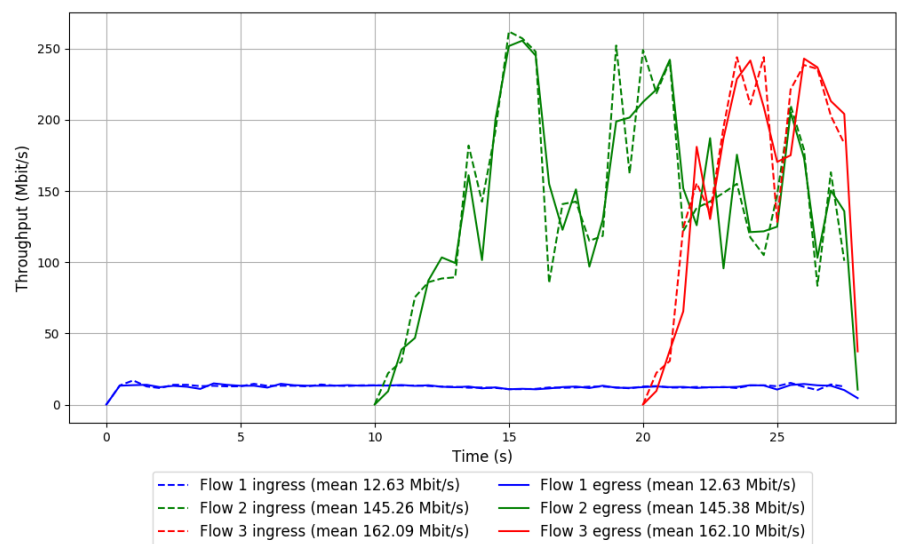
-- Flow 3:

Average throughput: 162.10 Mbit/s

95th percentile per-packet one-way delay: 146.655 ms

Loss rate: 0.00%

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

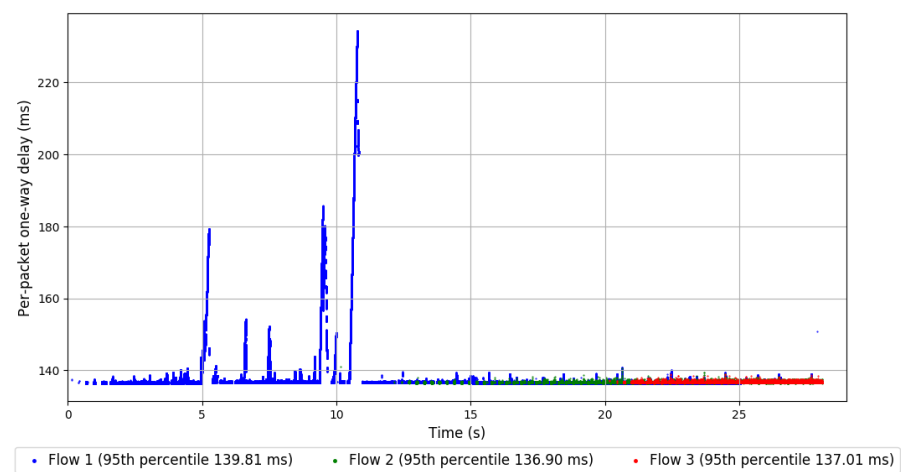
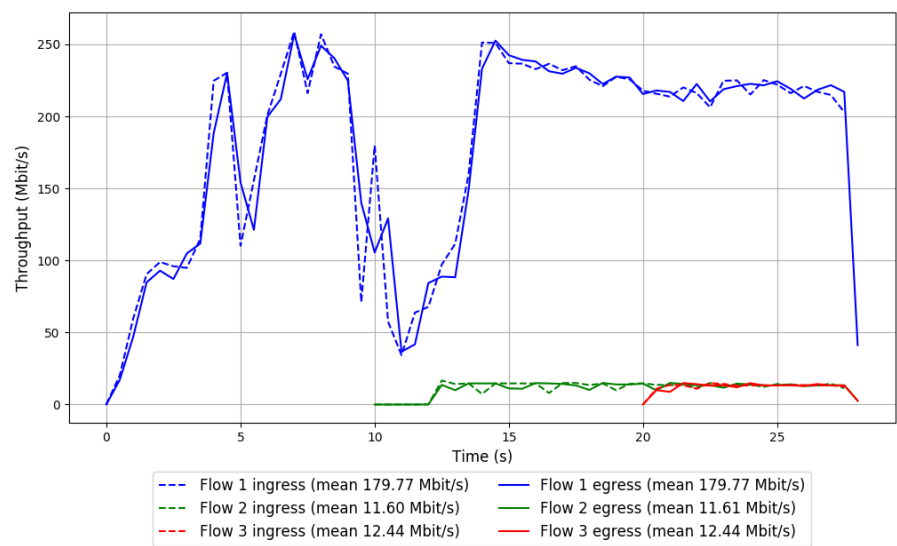


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-27 03:54:06
End at: 2018-01-27 03:54:36

# Below is generated by plot.py at 2018-01-27 06:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 190.75 Mbit/s
95th percentile per-packet one-way delay: 139.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.77 Mbit/s
95th percentile per-packet one-way delay: 139.815 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 136.899 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 12.44 Mbit/s
95th percentile per-packet one-way delay: 137.015 ms
Loss rate: 0.00%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-27 04:10:23

End at: 2018-01-27 04:10:53

Below is generated by plot.py at 2018-01-27 06:09:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 205.12 Mbit/s

95th percentile per-packet one-way delay: 151.603 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 153.10 Mbit/s

95th percentile per-packet one-way delay: 153.840 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 17.47 Mbit/s

95th percentile per-packet one-way delay: 137.519 ms

Loss rate: 0.07%

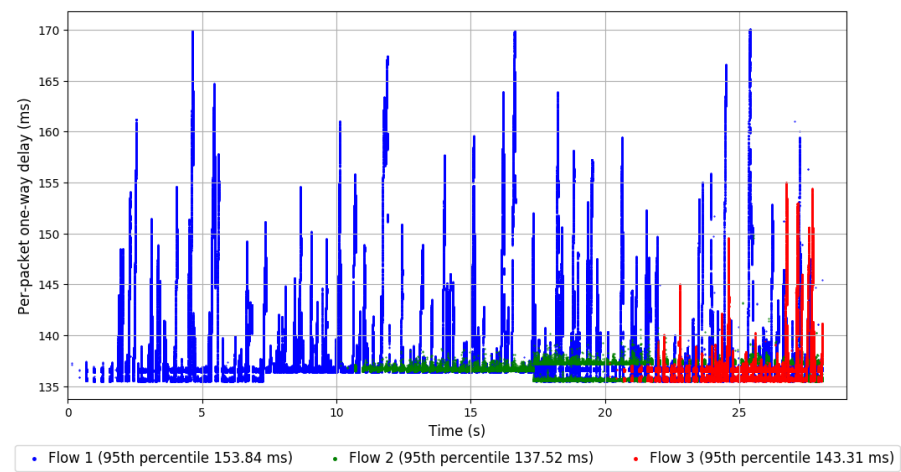
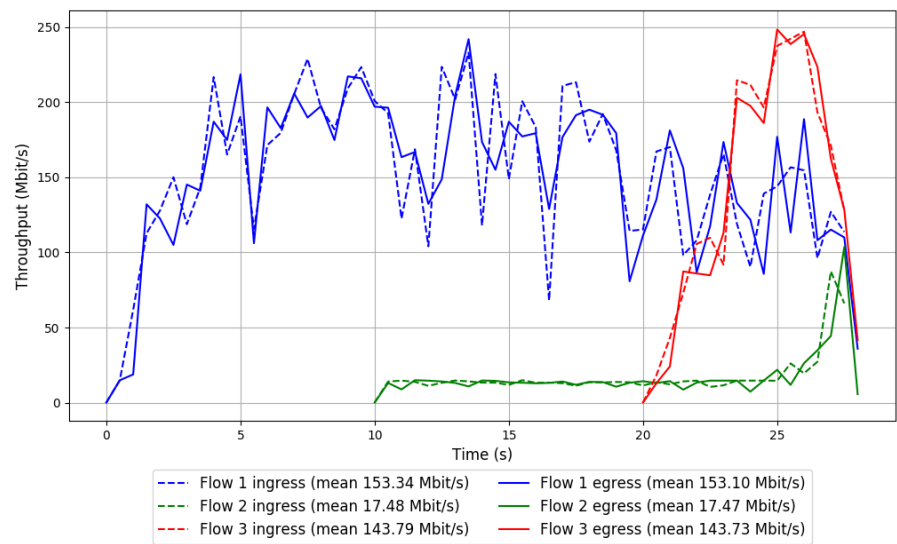
-- Flow 3:

Average throughput: 143.73 Mbit/s

95th percentile per-packet one-way delay: 143.307 ms

Loss rate: 0.00%

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

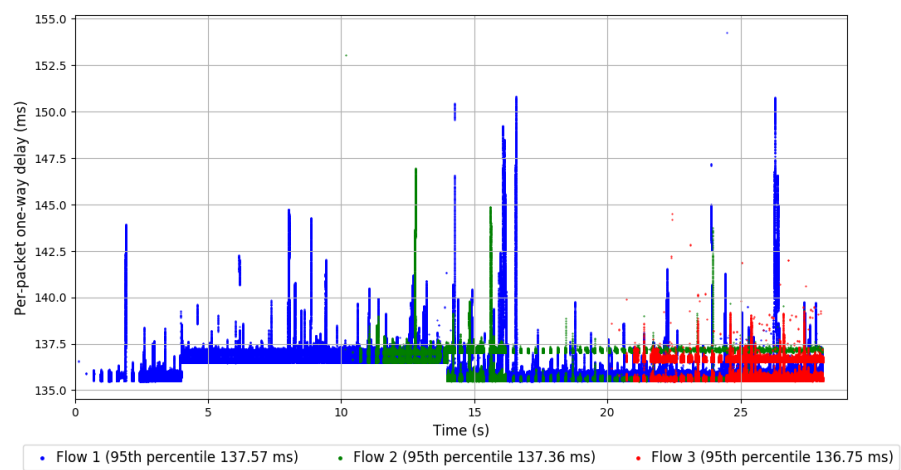
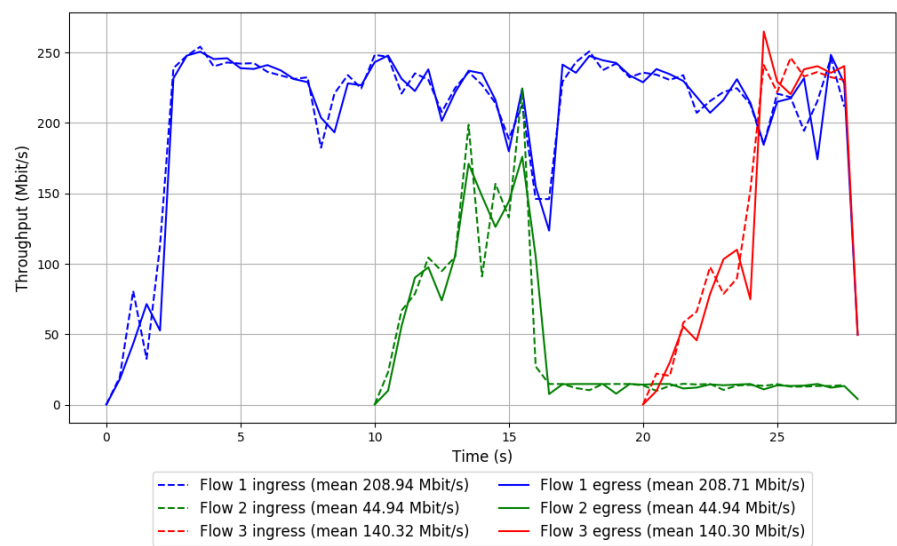


```
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-27 04:26:27
End at: 2018-01-27 04:26:57

# Below is generated by plot.py at 2018-01-27 06:12:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.32 Mbit/s
95th percentile per-packet one-way delay: 137.334 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 208.71 Mbit/s
95th percentile per-packet one-way delay: 137.573 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 44.94 Mbit/s
95th percentile per-packet one-way delay: 137.364 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 140.30 Mbit/s
95th percentile per-packet one-way delay: 136.748 ms
Loss rate: 0.01%
```


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

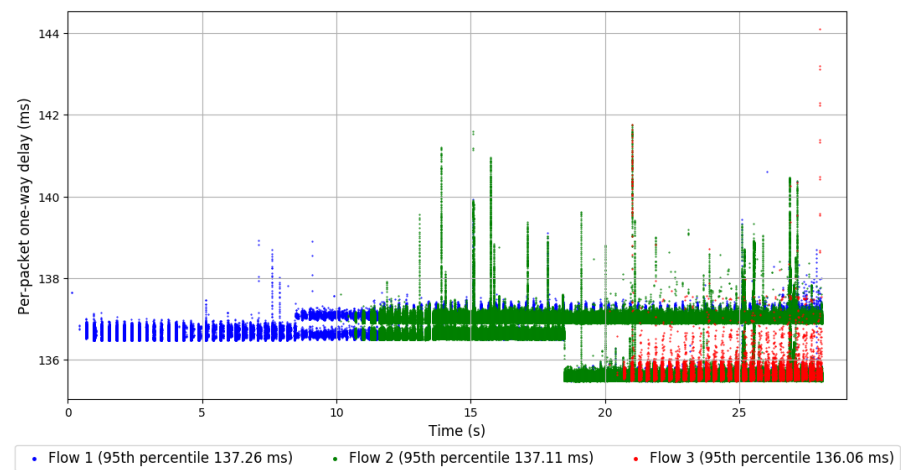
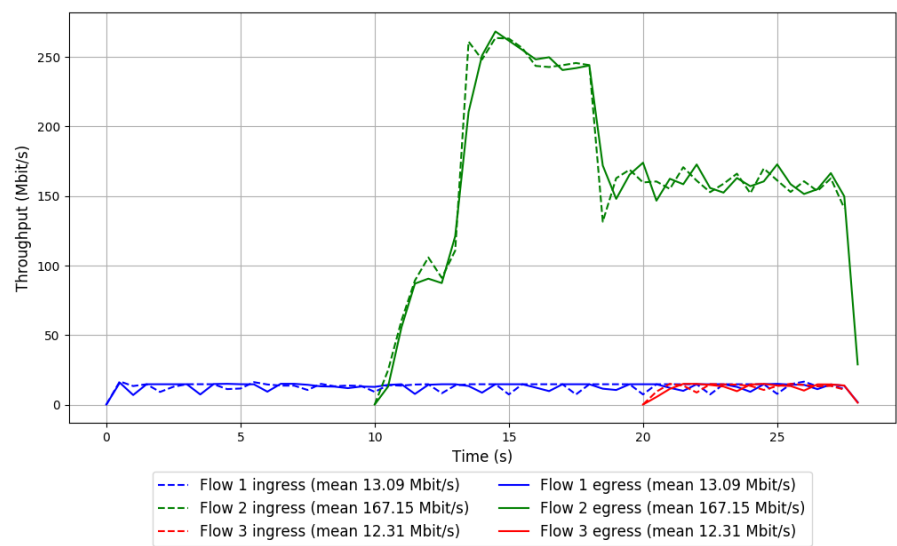


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-27 04:42:52
End at: 2018-01-27 04:43:22

# Below is generated by plot.py at 2018-01-27 06:12:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.84 Mbit/s
95th percentile per-packet one-way delay: 137.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 137.259 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.15 Mbit/s
95th percentile per-packet one-way delay: 137.111 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 136.064 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-27 02:23:23

End at: 2018-01-27 02:23:53

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 143.580 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 137.769 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 34.69 Mbit/s

95th percentile per-packet one-way delay: 144.177 ms

Loss rate: 0.03%

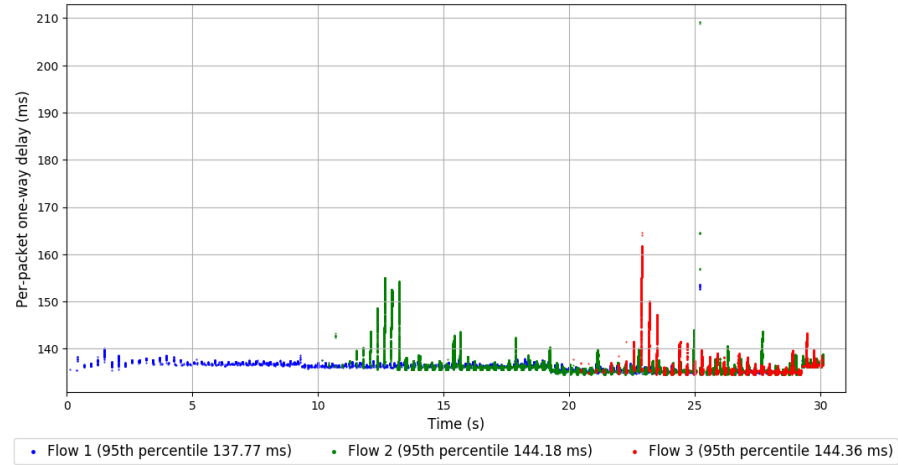
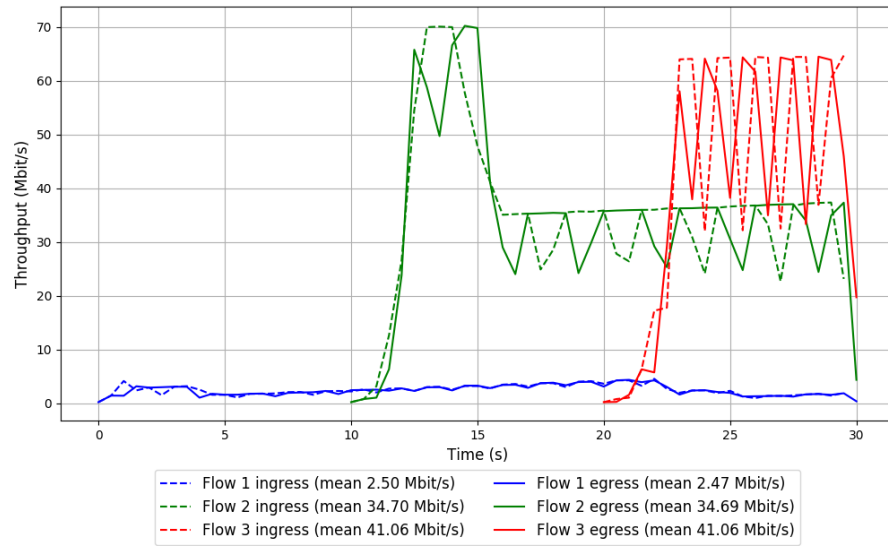
-- Flow 3:

Average throughput: 41.06 Mbit/s

95th percentile per-packet one-way delay: 144.361 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-27 02:39:14

End at: 2018-01-27 02:39:44

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.45 Mbit/s

95th percentile per-packet one-way delay: 147.233 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 145.205 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 33.54 Mbit/s

95th percentile per-packet one-way delay: 151.380 ms

Loss rate: 0.00%

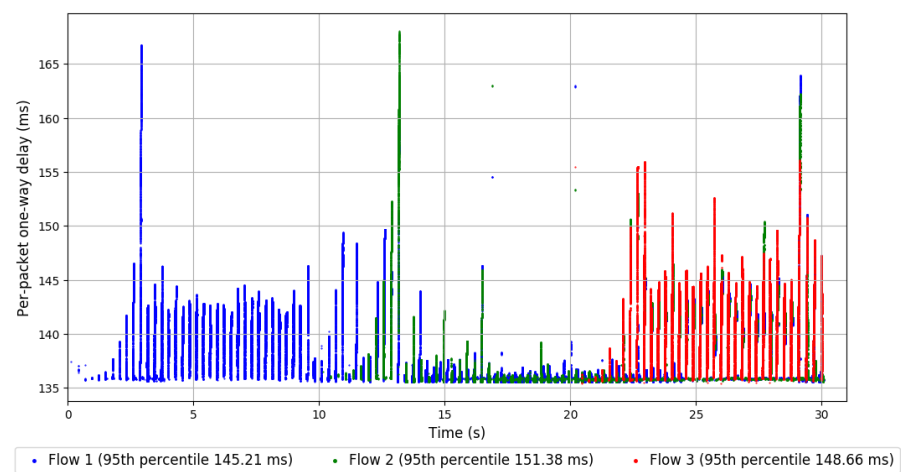
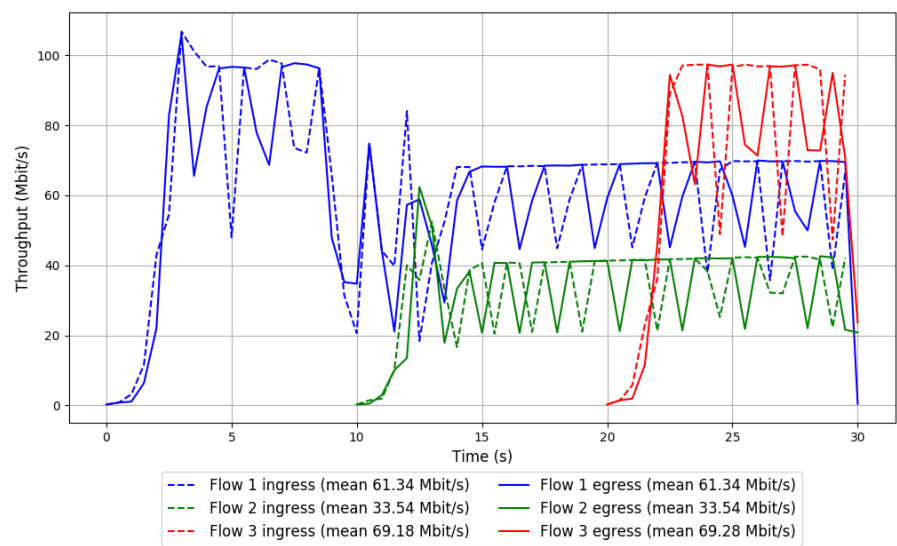
-- Flow 3:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 148.665 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-27 02:55:12

End at: 2018-01-27 02:55:42

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 141.074 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 11.73 Mbit/s

95th percentile per-packet one-way delay: 142.387 ms

Loss rate: 4.56%

-- Flow 2:

Average throughput: 19.62 Mbit/s

95th percentile per-packet one-way delay: 138.430 ms

Loss rate: 0.06%

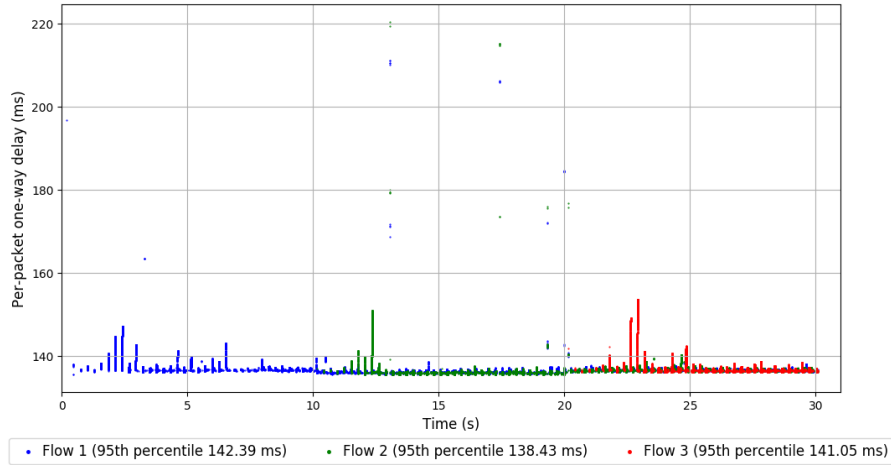
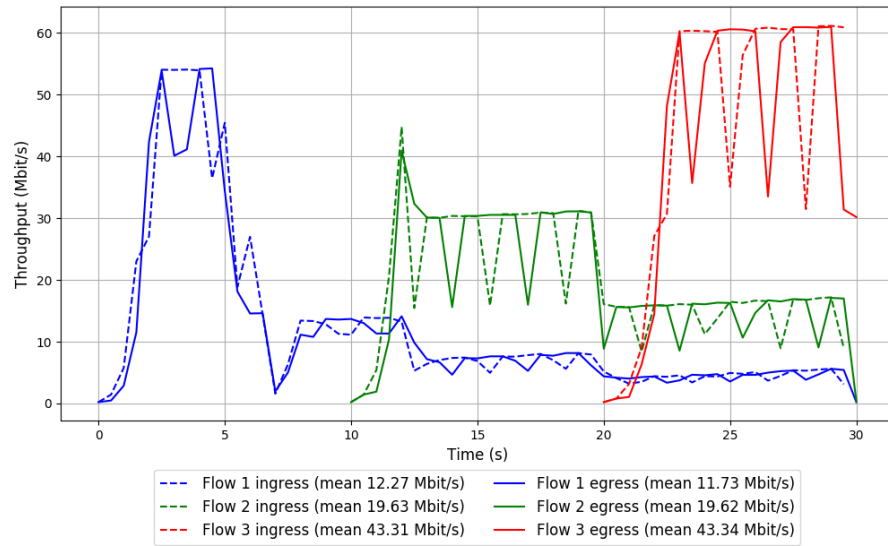
-- Flow 3:

Average throughput: 43.34 Mbit/s

95th percentile per-packet one-way delay: 141.054 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-27 03:11:58

End at: 2018-01-27 03:12:28

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 146.818 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 138.183 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 139.906 ms

Loss rate: 0.05%

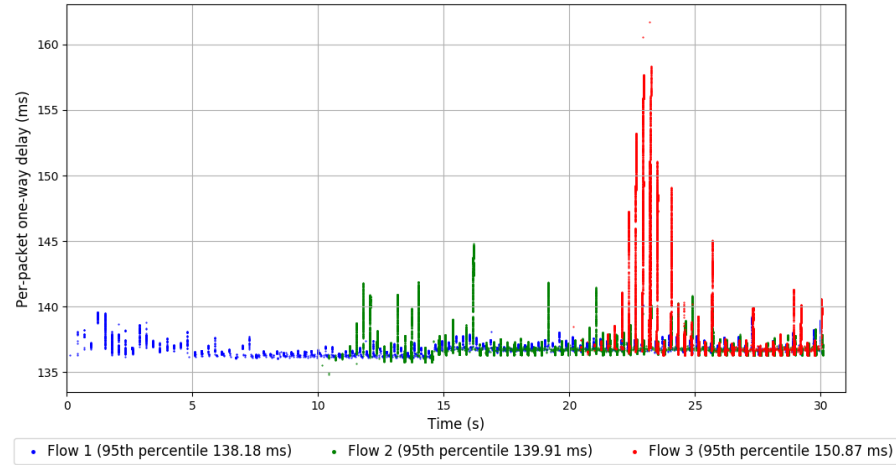
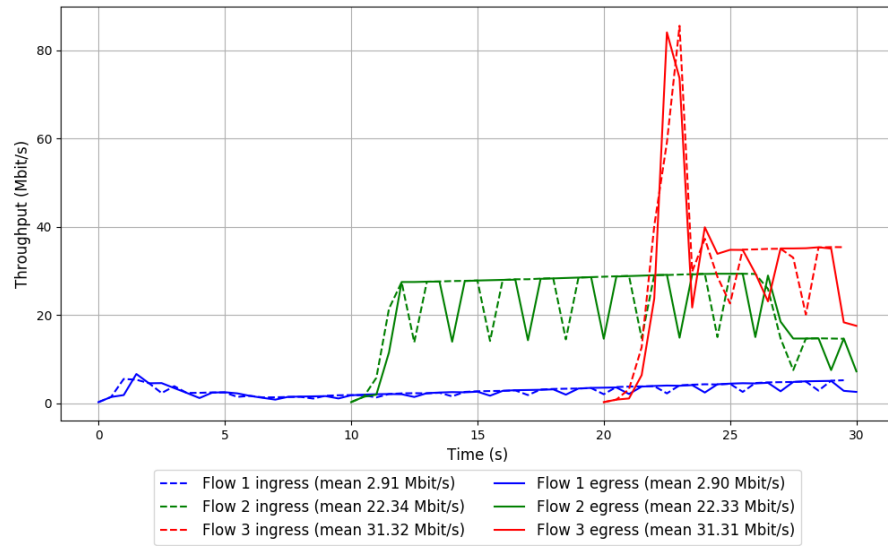
-- Flow 3:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 150.866 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-27 03:27:44

End at: 2018-01-27 03:28:14

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 146.131 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 144.388 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 79.62 Mbit/s

95th percentile per-packet one-way delay: 146.840 ms

Loss rate: 0.00%

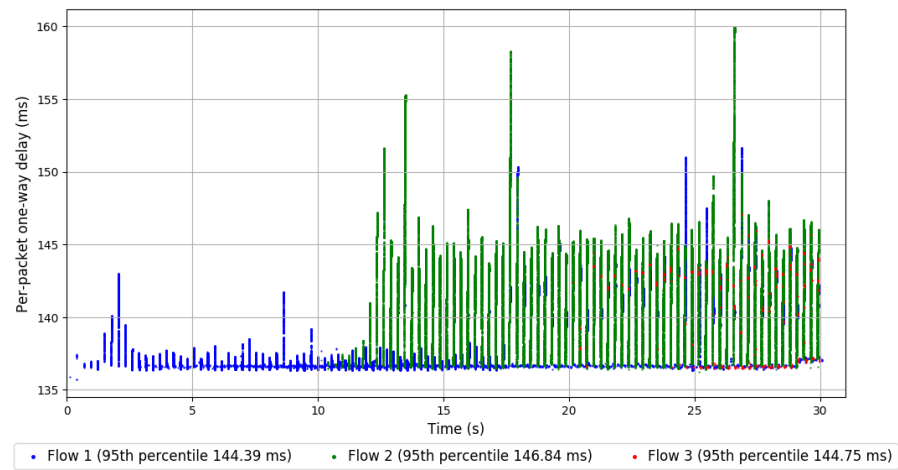
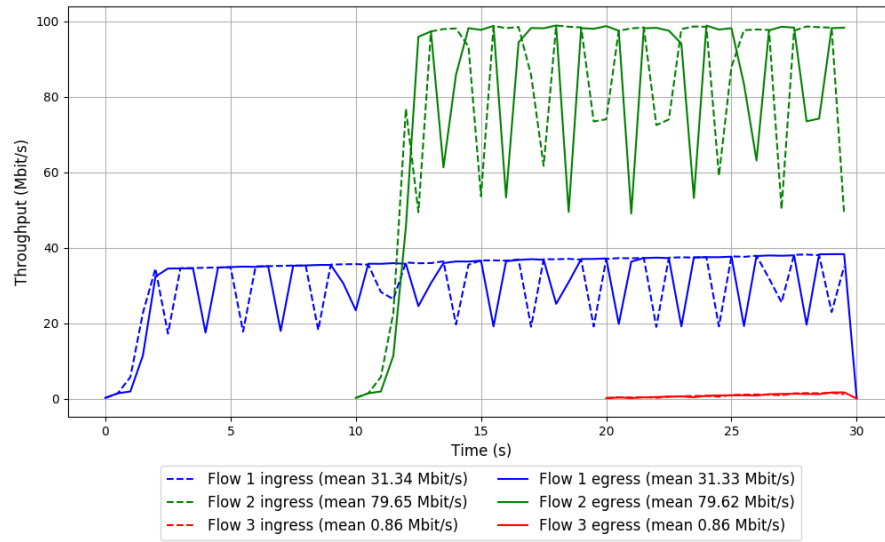
-- Flow 3:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 144.751 ms

Loss rate: 0.70%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-27 03:44:00

End at: 2018-01-27 03:44:30

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 39.63 Mbit/s

95th percentile per-packet one-way delay: 151.247 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 142.574 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 42.44 Mbit/s

95th percentile per-packet one-way delay: 152.762 ms

Loss rate: 0.03%

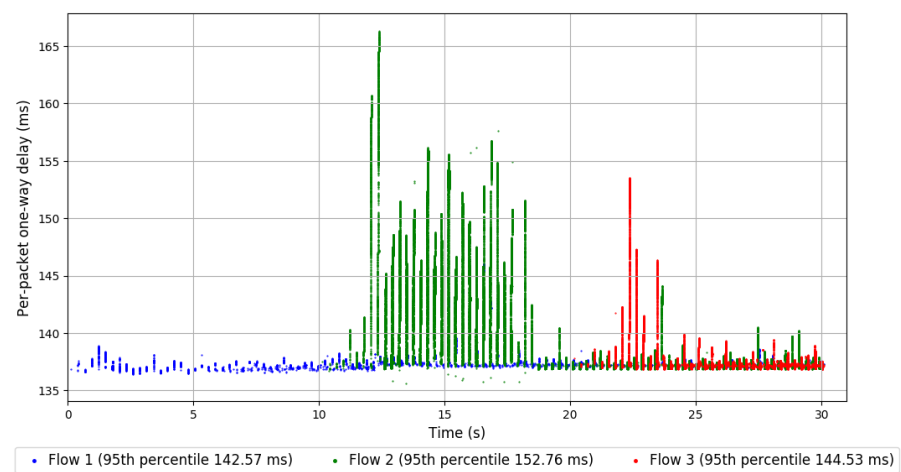
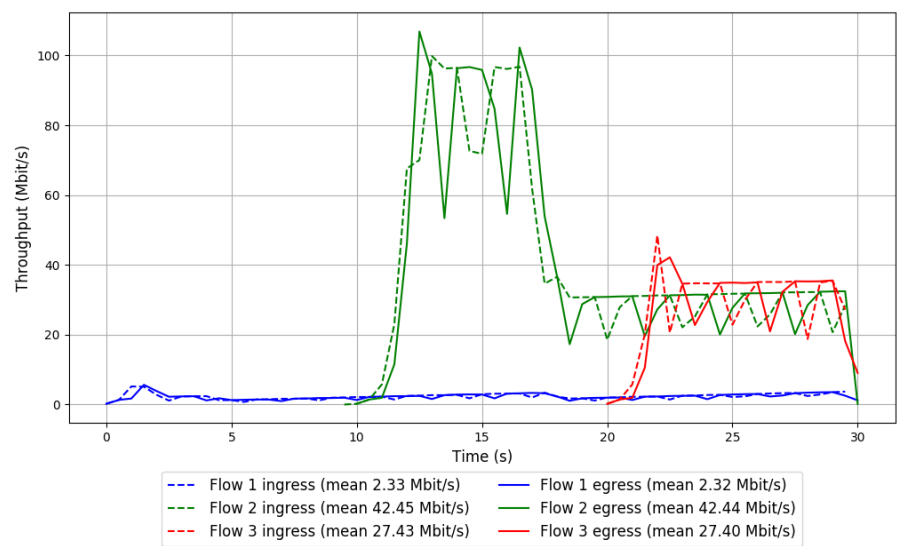
-- Flow 3:

Average throughput: 27.40 Mbit/s

95th percentile per-packet one-way delay: 144.525 ms

Loss rate: 0.12%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-27 04:00:11

End at: 2018-01-27 04:00:41

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.99 Mbit/s

95th percentile per-packet one-way delay: 145.549 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 143.030 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 22.61 Mbit/s

95th percentile per-packet one-way delay: 139.648 ms

Loss rate: 0.01%

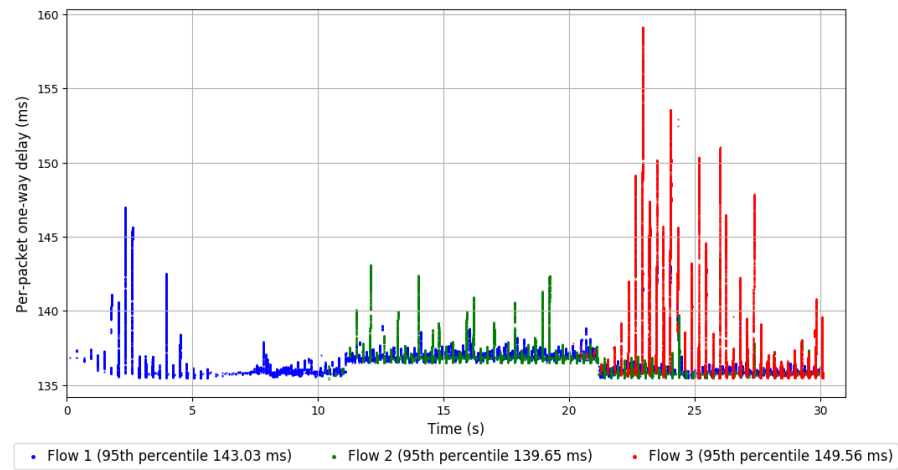
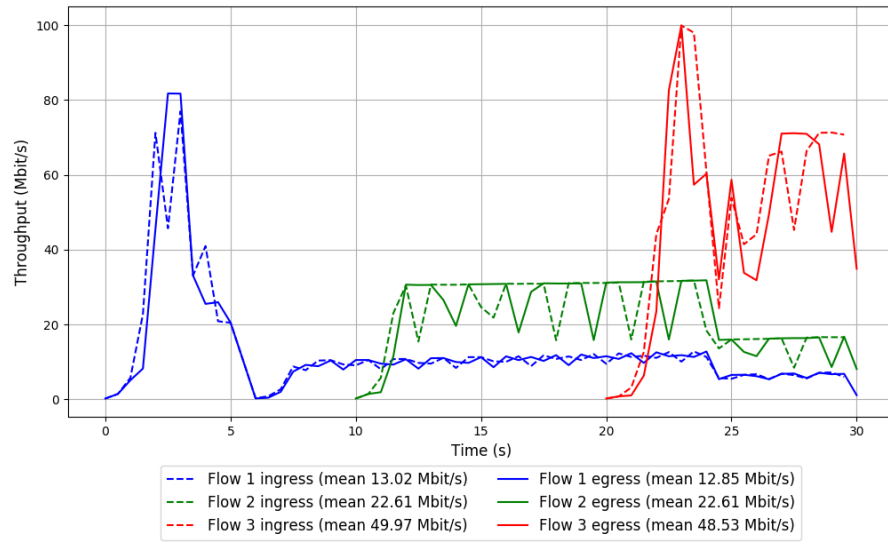
-- Flow 3:

Average throughput: 48.53 Mbit/s

95th percentile per-packet one-way delay: 149.556 ms

Loss rate: 2.89%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-27 04:16:21

End at: 2018-01-27 04:16:51

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 42.56 Mbit/s

95th percentile per-packet one-way delay: 146.322 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 138.132 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 28.15 Mbit/s

95th percentile per-packet one-way delay: 140.359 ms

Loss rate: 0.03%

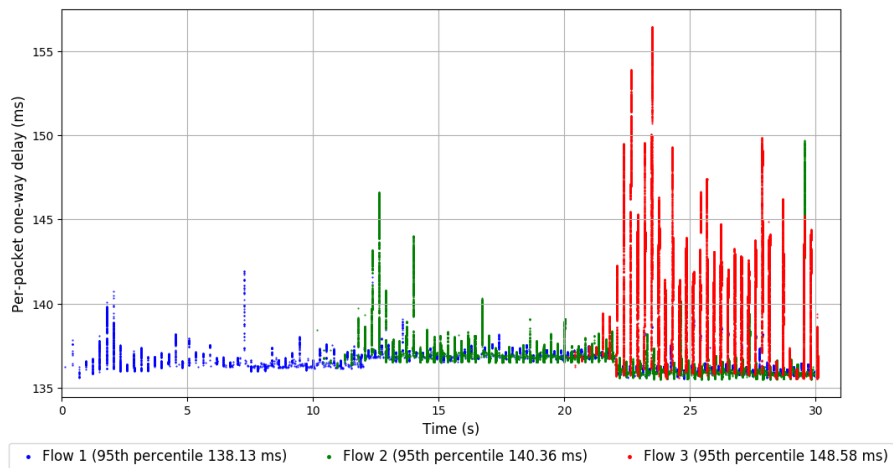
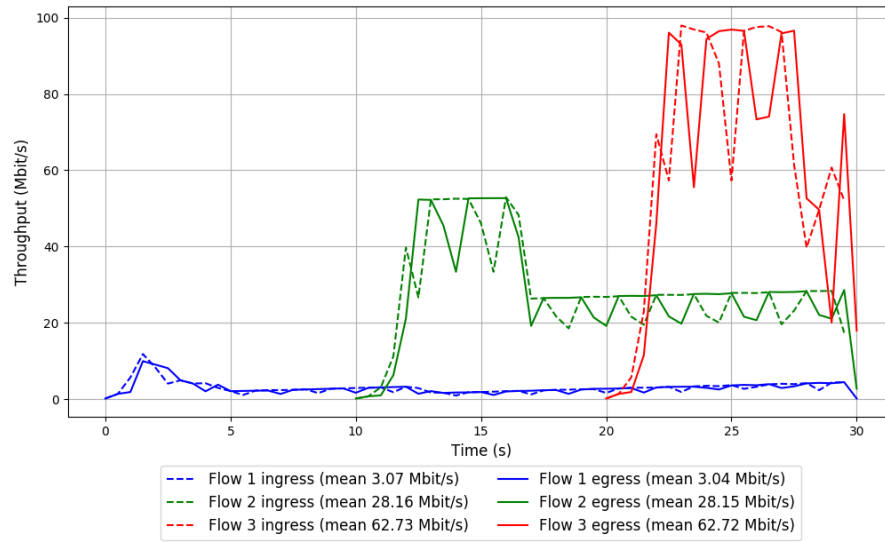
-- Flow 3:

Average throughput: 62.72 Mbit/s

95th percentile per-packet one-way delay: 148.583 ms

Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-27 04:32:39

End at: 2018-01-27 04:33:09

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.96 Mbit/s

95th percentile per-packet one-way delay: 154.125 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.84 Mbit/s

95th percentile per-packet one-way delay: 146.817 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 79.99 Mbit/s

95th percentile per-packet one-way delay: 152.532 ms

Loss rate: 0.00%

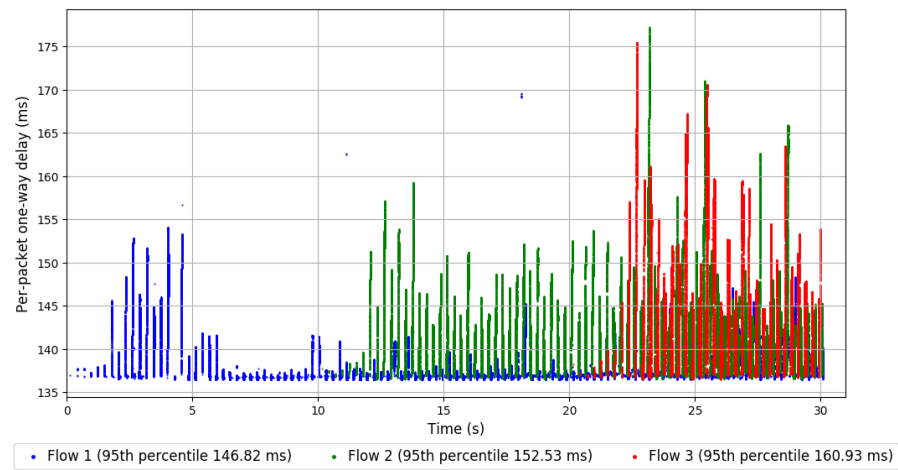
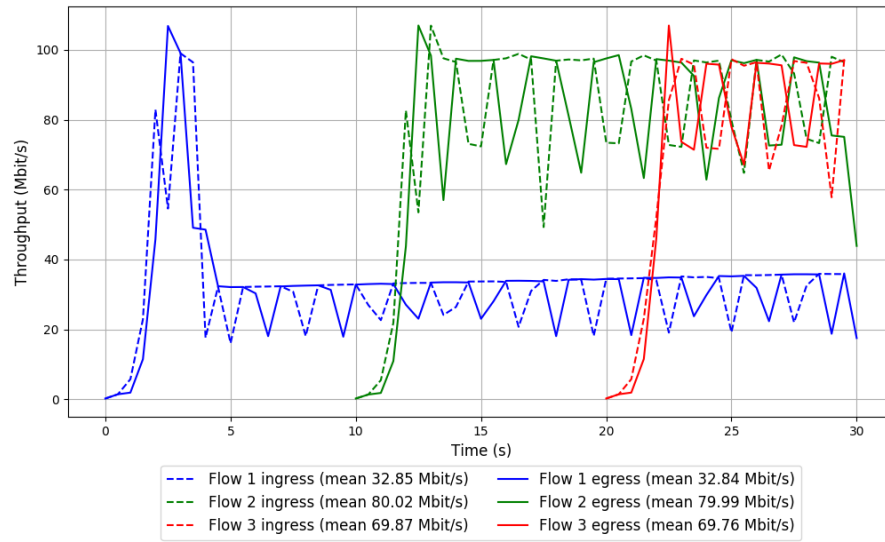
-- Flow 3:

Average throughput: 69.76 Mbit/s

95th percentile per-packet one-way delay: 160.930 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-27 04:48:57

End at: 2018-01-27 04:49:27

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 148.662 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 146.642 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 33.14 Mbit/s

95th percentile per-packet one-way delay: 151.309 ms

Loss rate: 0.02%

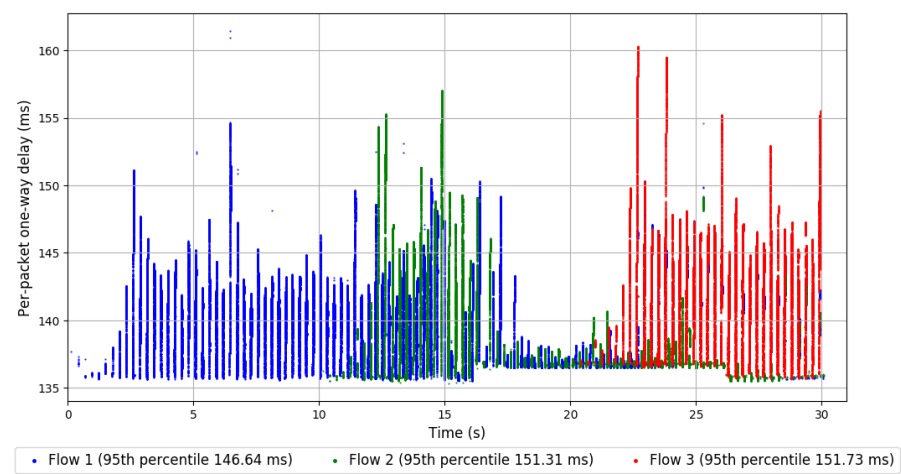
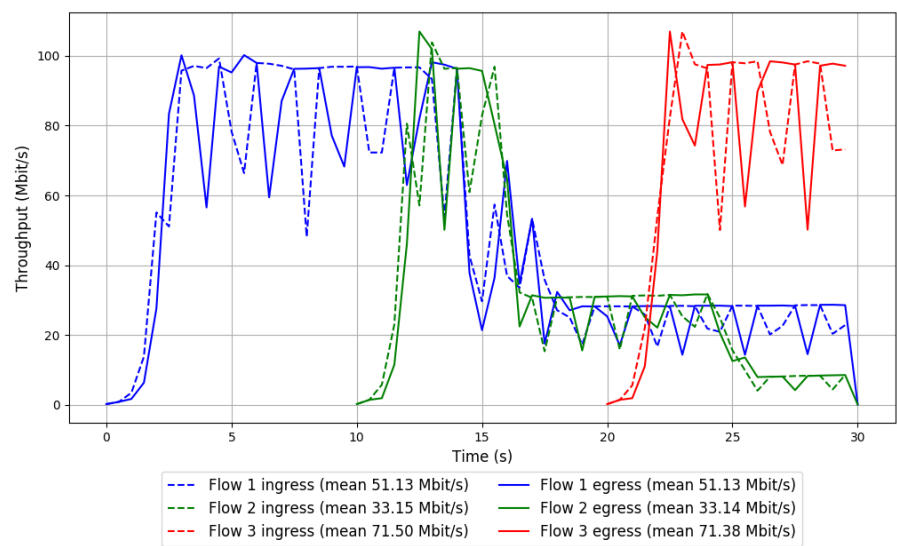
-- Flow 3:

Average throughput: 71.38 Mbit/s

95th percentile per-packet one-way delay: 151.732 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-27 02:19:28

End at: 2018-01-27 02:19:58

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 141.69 Mbit/s

95th percentile per-packet one-way delay: 273.998 ms

Loss rate: 3.07%

-- Flow 1:

Average throughput: 19.24 Mbit/s

95th percentile per-packet one-way delay: 374.424 ms

Loss rate: 9.27%

-- Flow 2:

Average throughput: 179.90 Mbit/s

95th percentile per-packet one-way delay: 255.361 ms

Loss rate: 1.77%

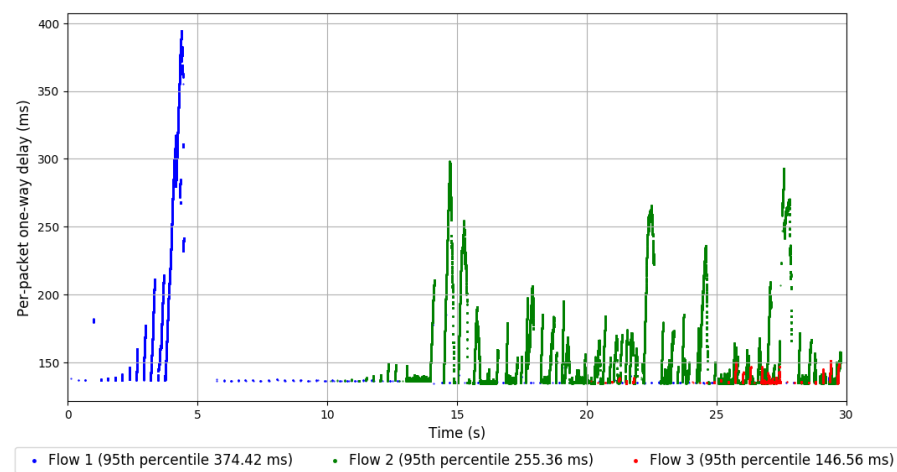
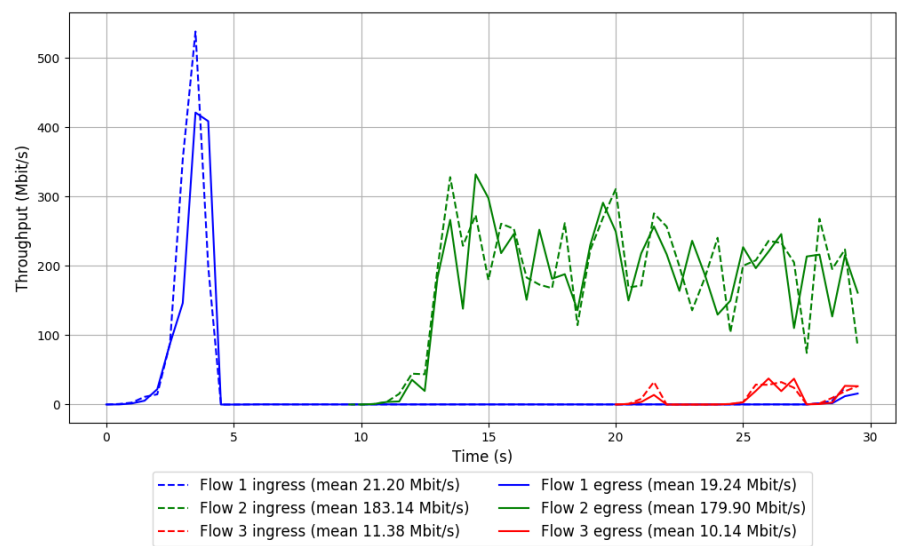
-- Flow 3:

Average throughput: 10.14 Mbit/s

95th percentile per-packet one-way delay: 146.563 ms

Loss rate: 10.77%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-27 02:35:14

End at: 2018-01-27 02:35:44

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 150.19 Mbit/s

95th percentile per-packet one-way delay: 280.780 ms

Loss rate: 4.02%

-- Flow 1:

Average throughput: 87.27 Mbit/s

95th percentile per-packet one-way delay: 309.353 ms

Loss rate: 6.56%

-- Flow 2:

Average throughput: 72.10 Mbit/s

95th percentile per-packet one-way delay: 175.767 ms

Loss rate: 0.34%

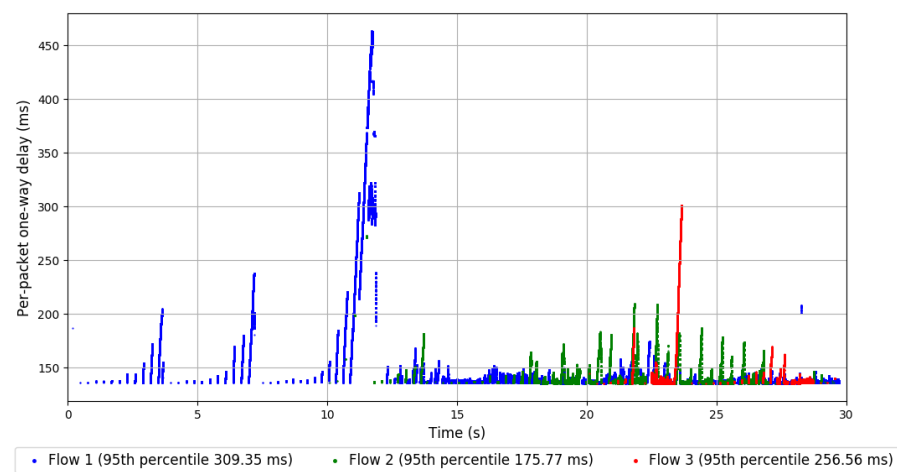
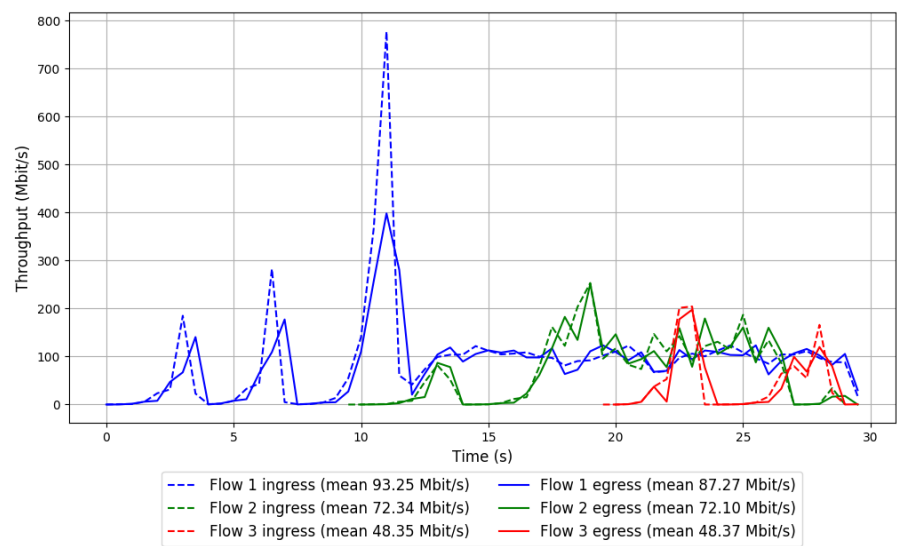
-- Flow 3:

Average throughput: 48.37 Mbit/s

95th percentile per-packet one-way delay: 256.565 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-27 02:51:17

End at: 2018-01-27 02:51:47

Below is generated by plot.py at 2018-01-27 06:12:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.39 Mbit/s

95th percentile per-packet one-way delay: 247.424 ms

Loss rate: 0.92%

-- Flow 1:

Average throughput: 68.09 Mbit/s

95th percentile per-packet one-way delay: 215.824 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 64.92 Mbit/s

95th percentile per-packet one-way delay: 290.337 ms

Loss rate: 0.71%

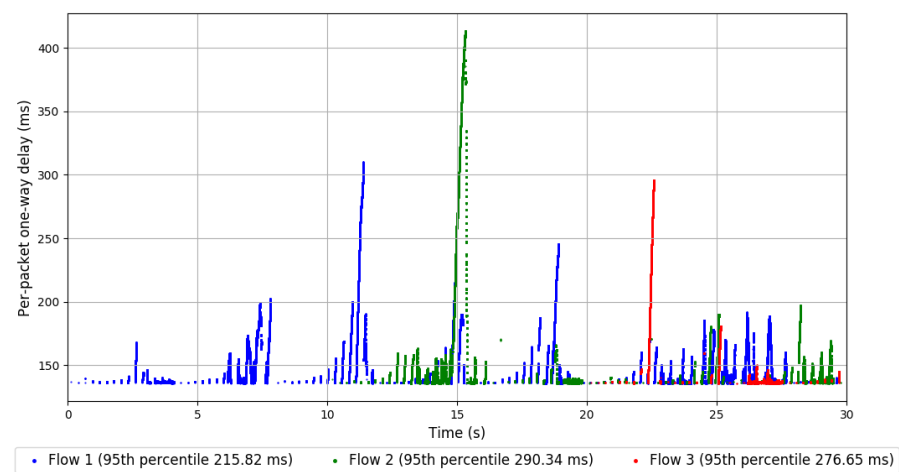
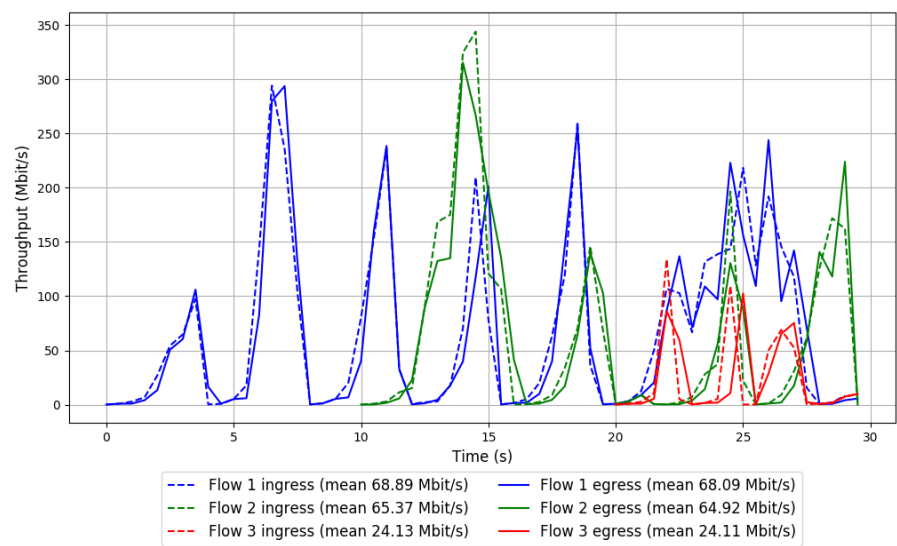
-- Flow 3:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 276.654 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-27 03:07:36

End at: 2018-01-27 03:08:06

Below is generated by plot.py at 2018-01-27 06:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 325.80 Mbit/s

95th percentile per-packet one-way delay: 334.781 ms

Loss rate: 5.41%

-- Flow 1:

Average throughput: 254.01 Mbit/s

95th percentile per-packet one-way delay: 341.490 ms

Loss rate: 5.88%

-- Flow 2:

Average throughput: 93.39 Mbit/s

95th percentile per-packet one-way delay: 308.683 ms

Loss rate: 4.31%

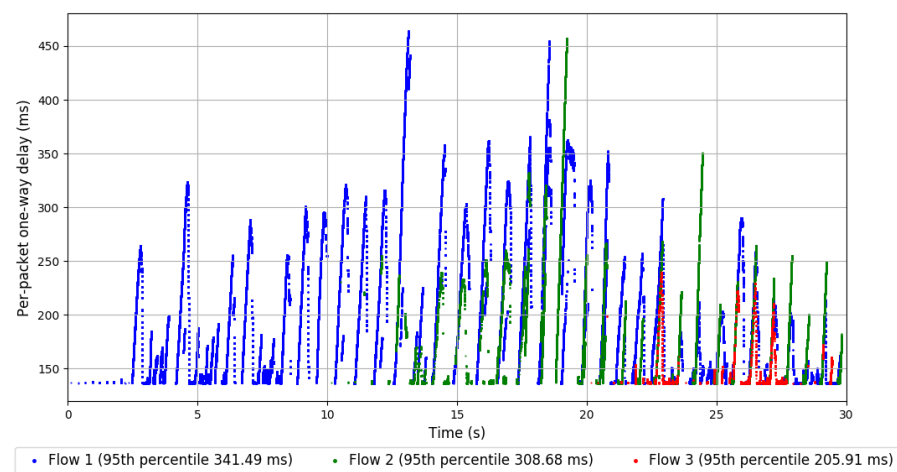
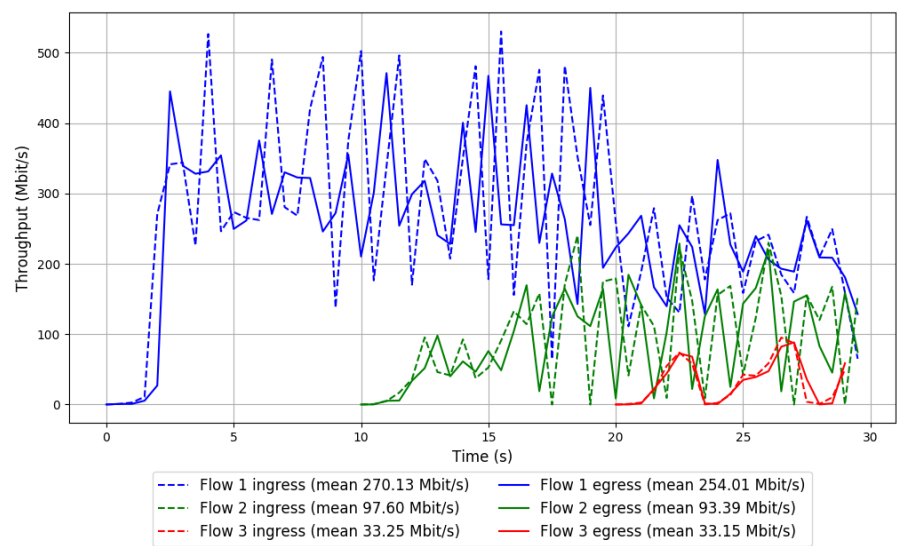
-- Flow 3:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 205.909 ms

Loss rate: 0.08%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-27 03:23:48

End at: 2018-01-27 03:24:18

Below is generated by plot.py at 2018-01-27 06:15:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 194.63 Mbit/s

95th percentile per-packet one-way delay: 273.424 ms

Loss rate: 3.99%

-- Flow 1:

Average throughput: 120.63 Mbit/s

95th percentile per-packet one-way delay: 297.694 ms

Loss rate: 6.17%

-- Flow 2:

Average throughput: 94.42 Mbit/s

95th percentile per-packet one-way delay: 268.803 ms

Loss rate: 0.24%

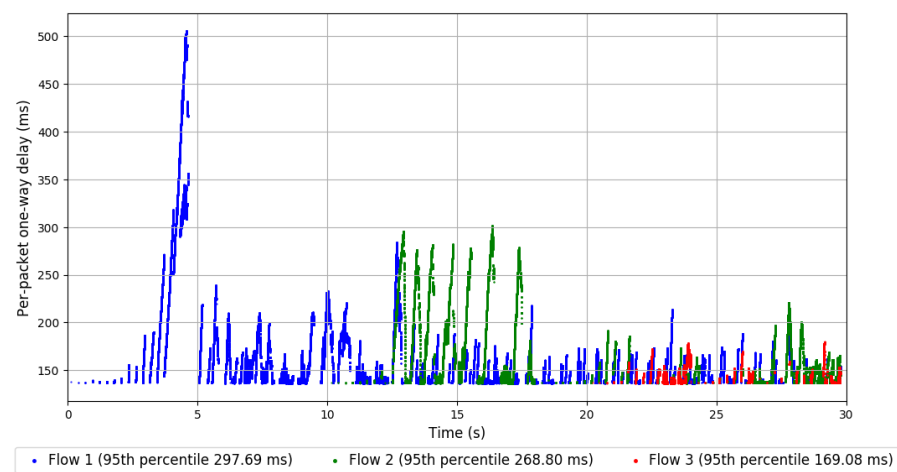
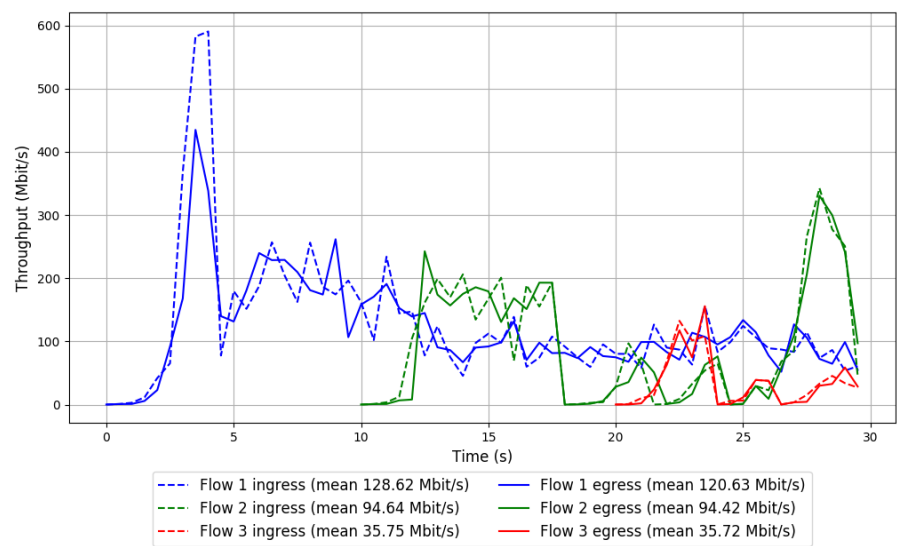
-- Flow 3:

Average throughput: 35.72 Mbit/s

95th percentile per-packet one-way delay: 169.080 ms

Loss rate: 0.05%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-27 03:39:47

End at: 2018-01-27 03:40:17

Below is generated by plot.py at 2018-01-27 06:15:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 268.64 Mbit/s

95th percentile per-packet one-way delay: 329.253 ms

Loss rate: 10.94%

-- Flow 1:

Average throughput: 212.97 Mbit/s

95th percentile per-packet one-way delay: 335.771 ms

Loss rate: 12.96%

-- Flow 2:

Average throughput: 48.23 Mbit/s

95th percentile per-packet one-way delay: 308.189 ms

Loss rate: 3.01%

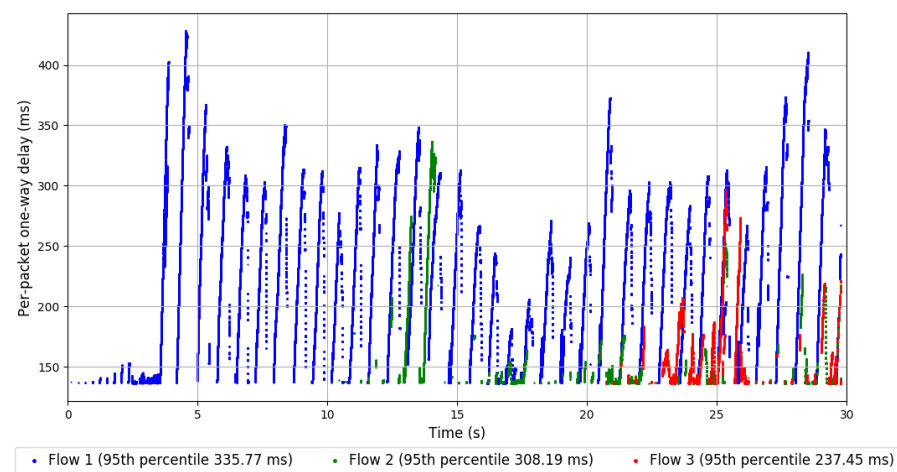
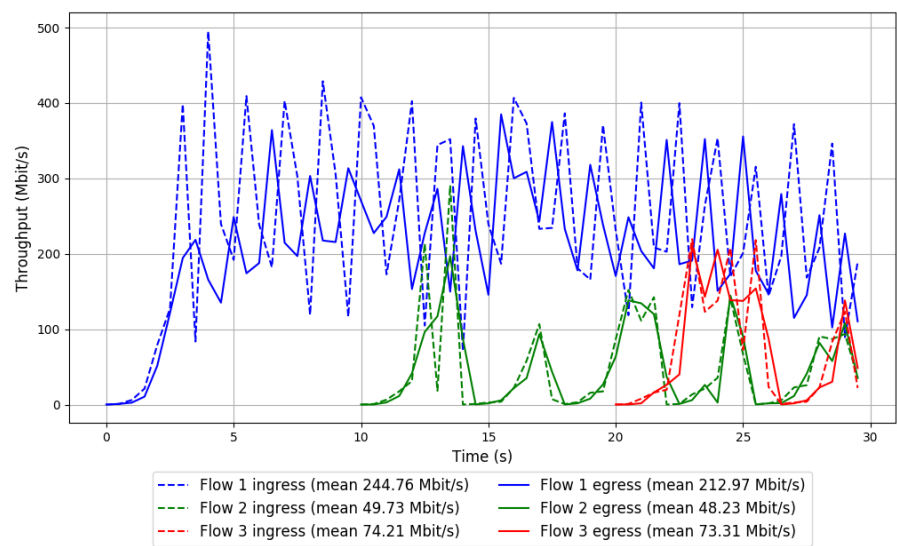
-- Flow 3:

Average throughput: 73.31 Mbit/s

95th percentile per-packet one-way delay: 237.448 ms

Loss rate: 1.16%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-27 03:56:03

End at: 2018-01-27 03:56:33

Below is generated by plot.py at 2018-01-27 06:15:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.50 Mbit/s

95th percentile per-packet one-way delay: 324.990 ms

Loss rate: 10.68%

-- Flow 1:

Average throughput: 182.16 Mbit/s

95th percentile per-packet one-way delay: 349.968 ms

Loss rate: 13.48%

-- Flow 2:

Average throughput: 87.01 Mbit/s

95th percentile per-packet one-way delay: 213.737 ms

Loss rate: 2.69%

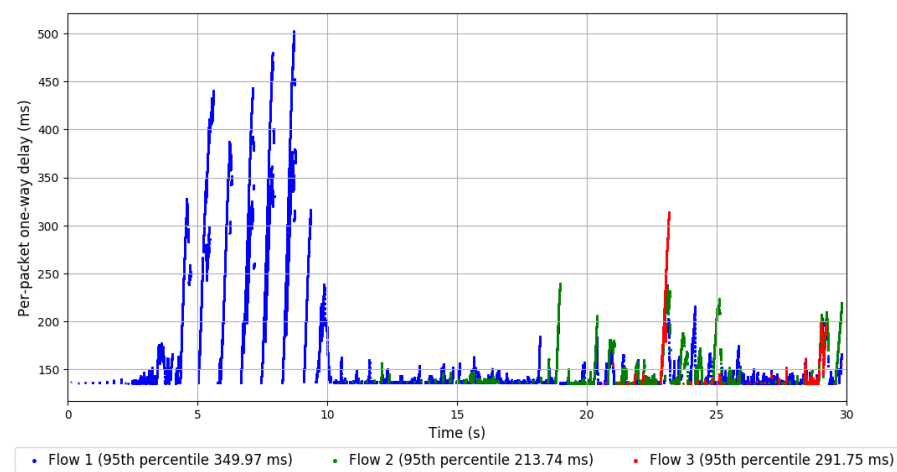
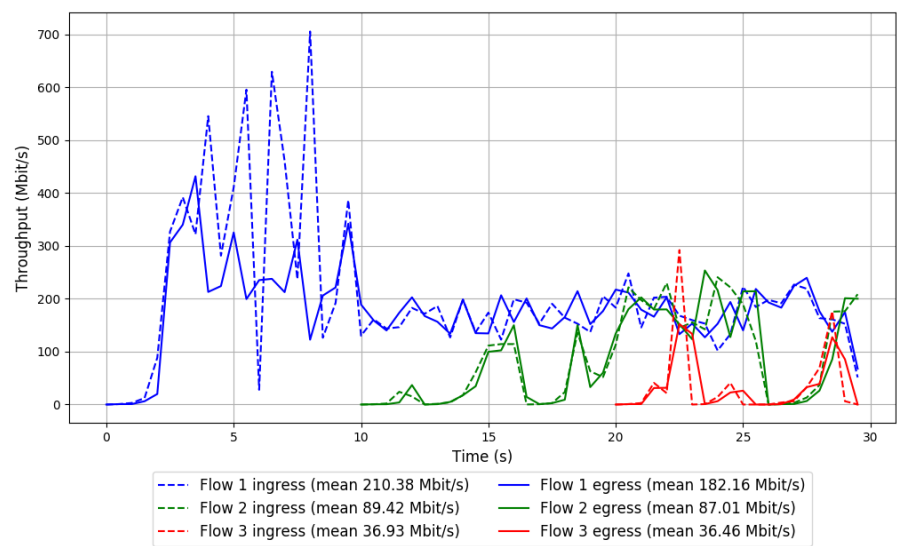
-- Flow 3:

Average throughput: 36.46 Mbit/s

95th percentile per-packet one-way delay: 291.755 ms

Loss rate: 1.08%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-27 04:12:23

End at: 2018-01-27 04:12:53

Below is generated by plot.py at 2018-01-27 06:15:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 190.55 Mbit/s

95th percentile per-packet one-way delay: 301.798 ms

Loss rate: 4.04%

-- Flow 1:

Average throughput: 122.53 Mbit/s

95th percentile per-packet one-way delay: 246.574 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 380.828 ms

Loss rate: 11.97%

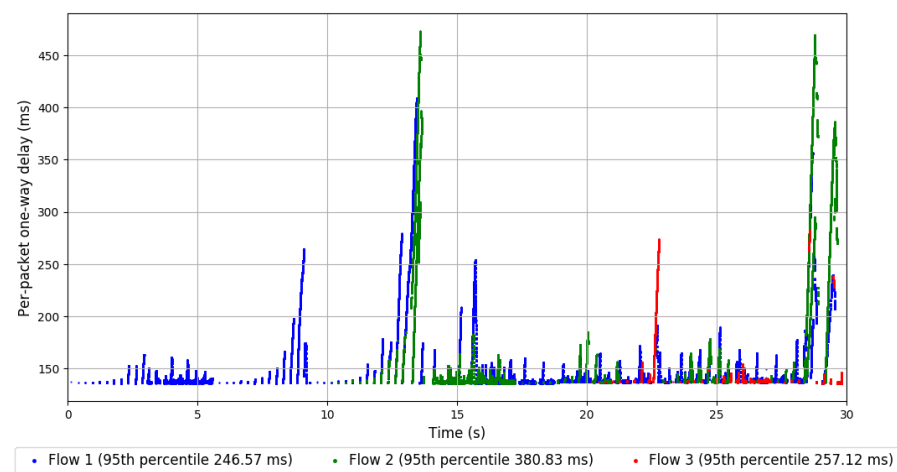
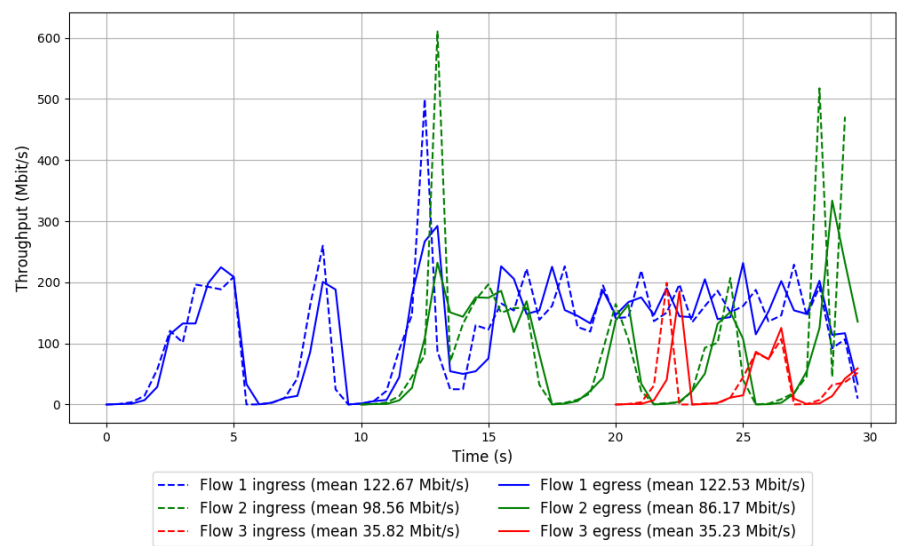
-- Flow 3:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 257.115 ms

Loss rate: 1.60%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-27 04:28:34

End at: 2018-01-27 04:29:04

Below is generated by plot.py at 2018-01-27 06:15:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 221.85 Mbit/s

95th percentile per-packet one-way delay: 298.935 ms

Loss rate: 6.22%

-- Flow 1:

Average throughput: 155.26 Mbit/s

95th percentile per-packet one-way delay: 319.210 ms

Loss rate: 7.63%

-- Flow 2:

Average throughput: 31.37 Mbit/s

95th percentile per-packet one-way delay: 205.210 ms

Loss rate: 1.07%

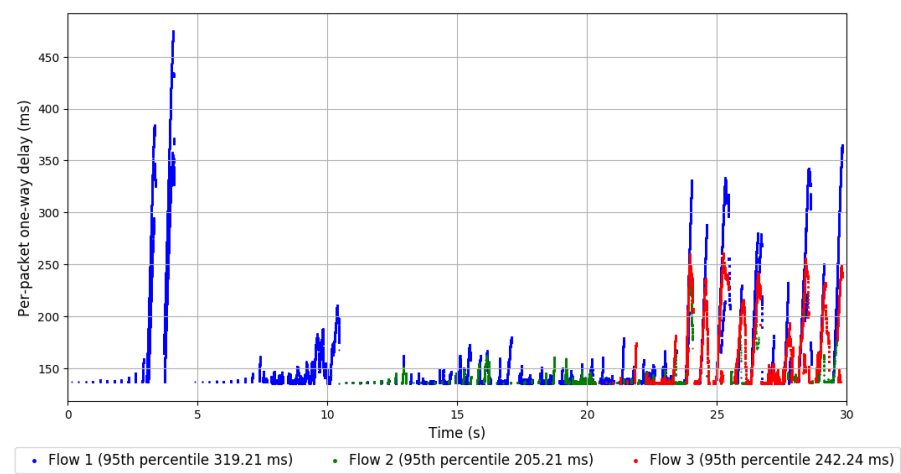
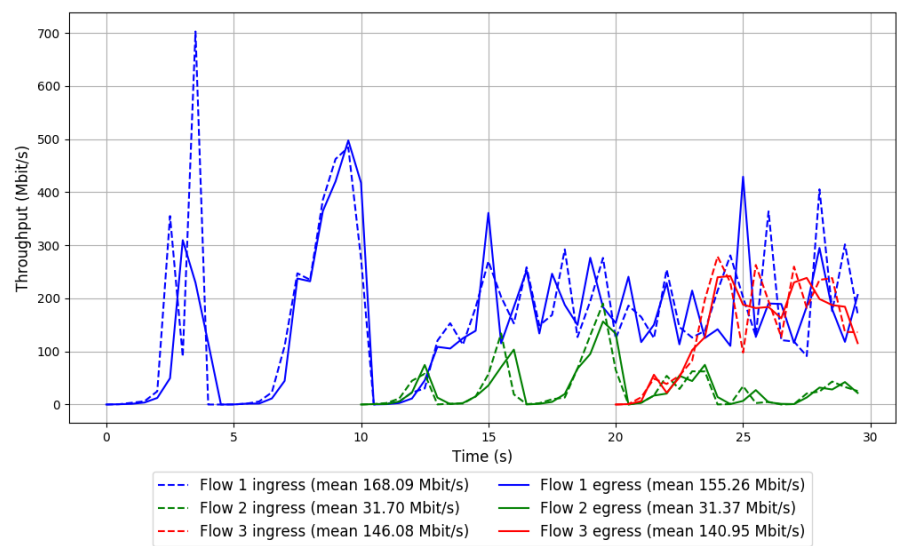
-- Flow 3:

Average throughput: 140.95 Mbit/s

95th percentile per-packet one-way delay: 242.242 ms

Loss rate: 3.48%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-27 04:44:43

End at: 2018-01-27 04:45:13

Below is generated by plot.py at 2018-01-27 06:16:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.09 Mbit/s

95th percentile per-packet one-way delay: 258.373 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 193.937 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 171.18 Mbit/s

95th percentile per-packet one-way delay: 266.846 ms

Loss rate: 1.17%

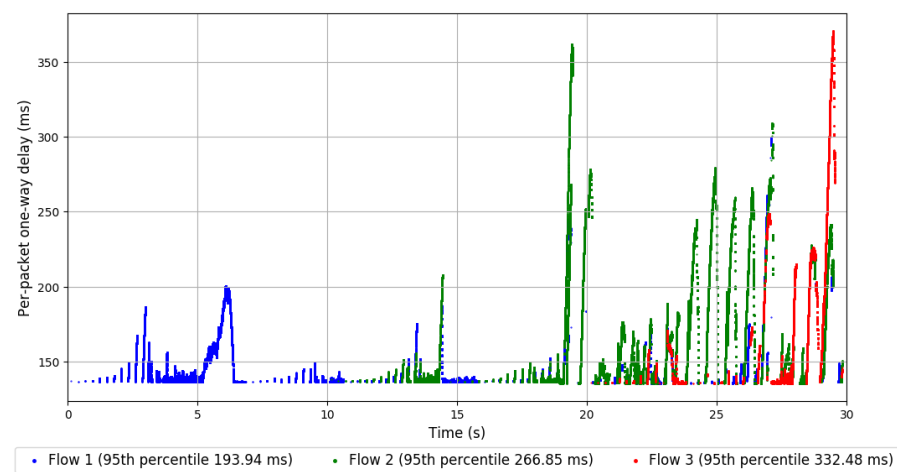
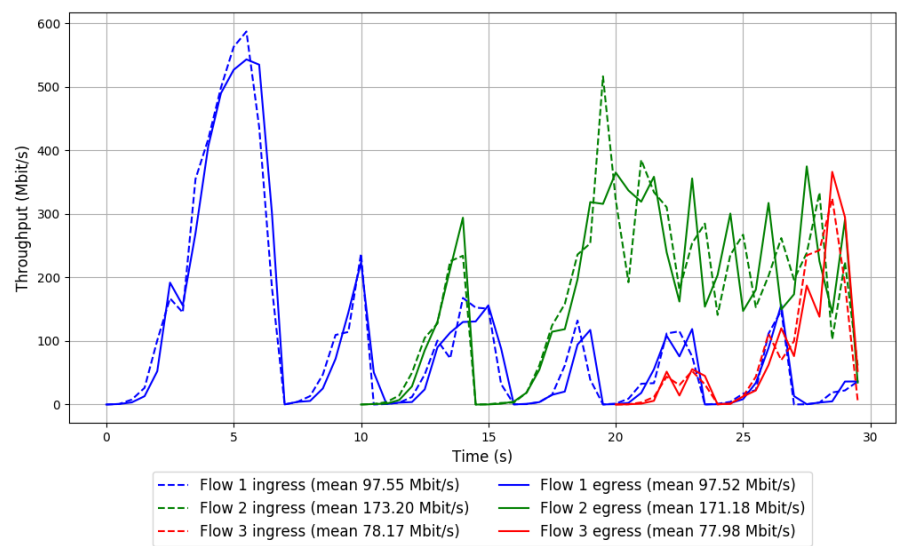
-- Flow 3:

Average throughput: 77.98 Mbit/s

95th percentile per-packet one-way delay: 332.475 ms

Loss rate: 0.20%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-27 02:22:30

End at: 2018-01-27 02:23:00

Run 1: Report of Copa — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Copa

Start at: 2018-01-27 02:38:18

End at: 2018-01-27 02:38:48

Below is generated by plot.py at 2018-01-27 06:16:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.44 Mbit/s

95th percentile per-packet one-way delay: 136.757 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 24.36 Mbit/s

95th percentile per-packet one-way delay: 136.687 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.42 Mbit/s

95th percentile per-packet one-way delay: 136.770 ms

Loss rate: 0.00%

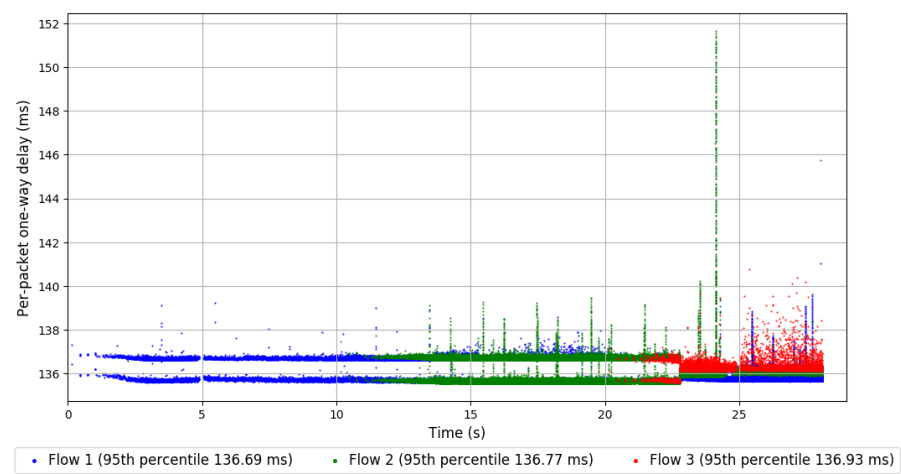
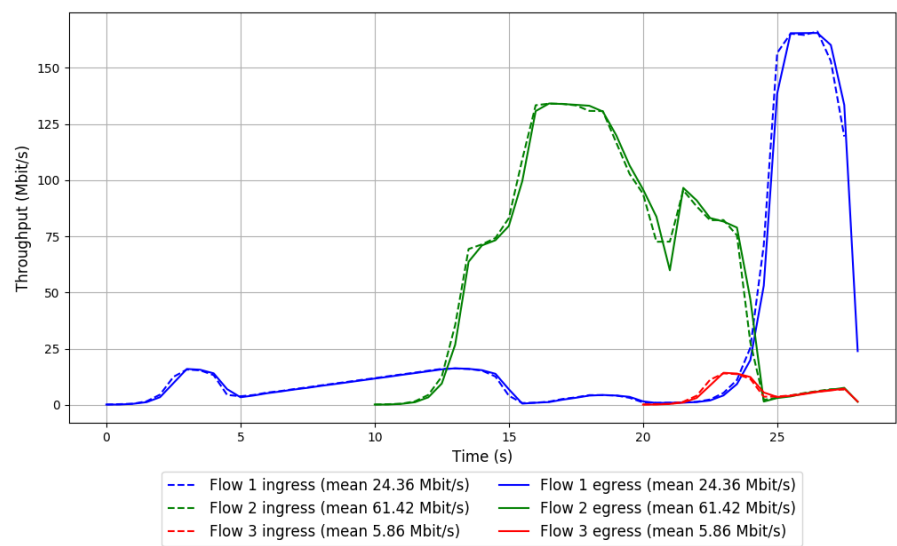
-- Flow 3:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 136.929 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-27 02:54:14

End at: 2018-01-27 02:54:44

Below is generated by plot.py at 2018-01-27 06:16:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.49 Mbit/s

95th percentile per-packet one-way delay: 137.074 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.78 Mbit/s

95th percentile per-packet one-way delay: 137.090 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 136.110 ms

Loss rate: 0.00%

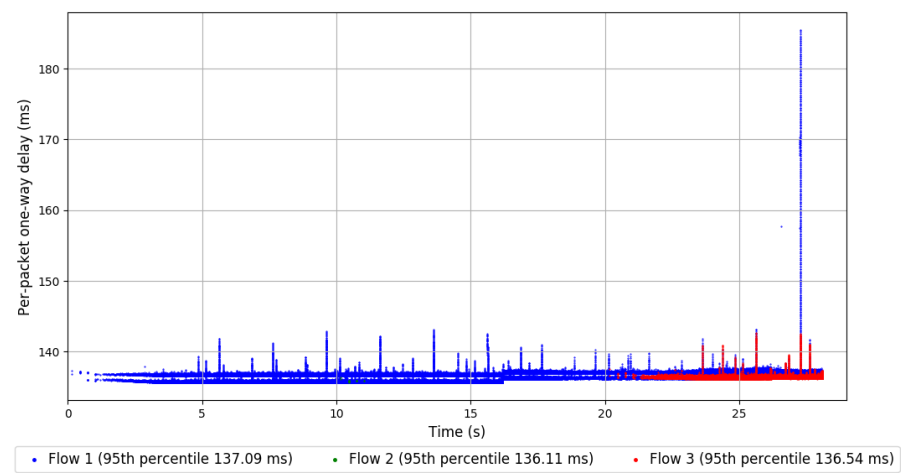
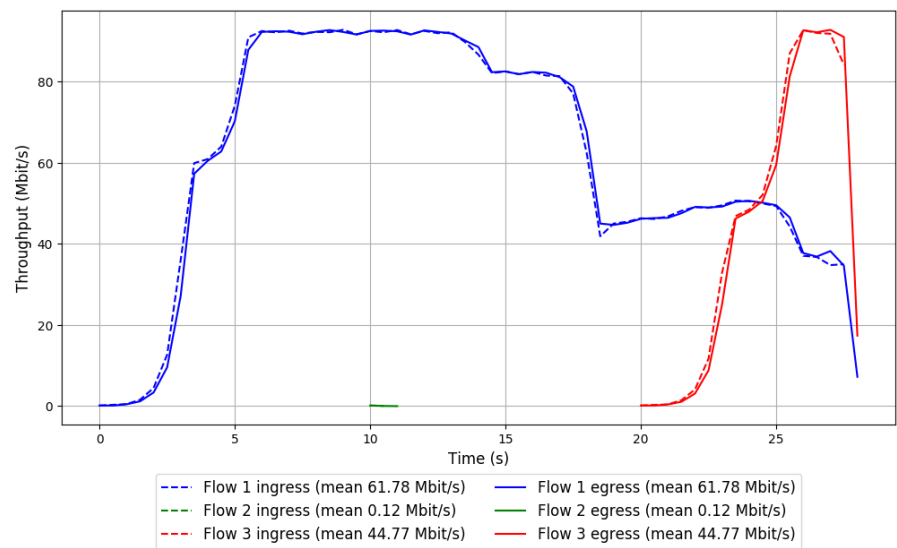
-- Flow 3:

Average throughput: 44.77 Mbit/s

95th percentile per-packet one-way delay: 136.544 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-27 03:10:55

End at: 2018-01-27 03:11:25

Below is generated by plot.py at 2018-01-27 06:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 122.72 Mbit/s

95th percentile per-packet one-way delay: 137.058 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 75.64 Mbit/s

95th percentile per-packet one-way delay: 137.085 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.66 Mbit/s

95th percentile per-packet one-way delay: 136.637 ms

Loss rate: 0.00%

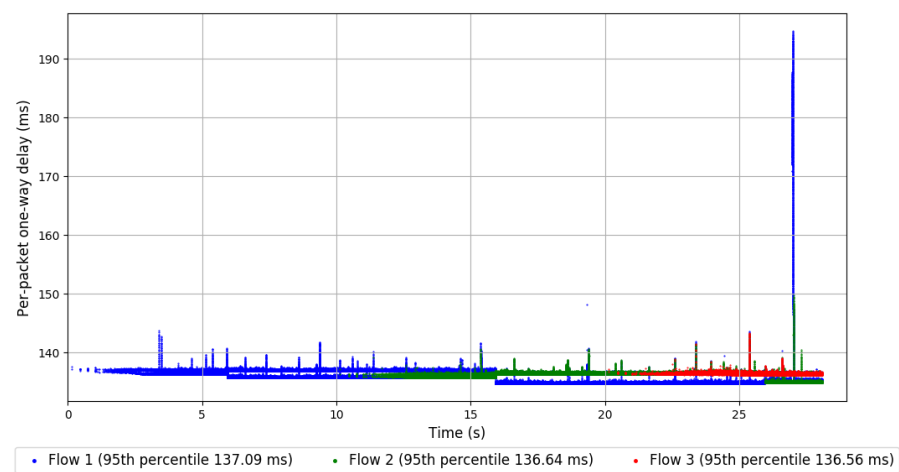
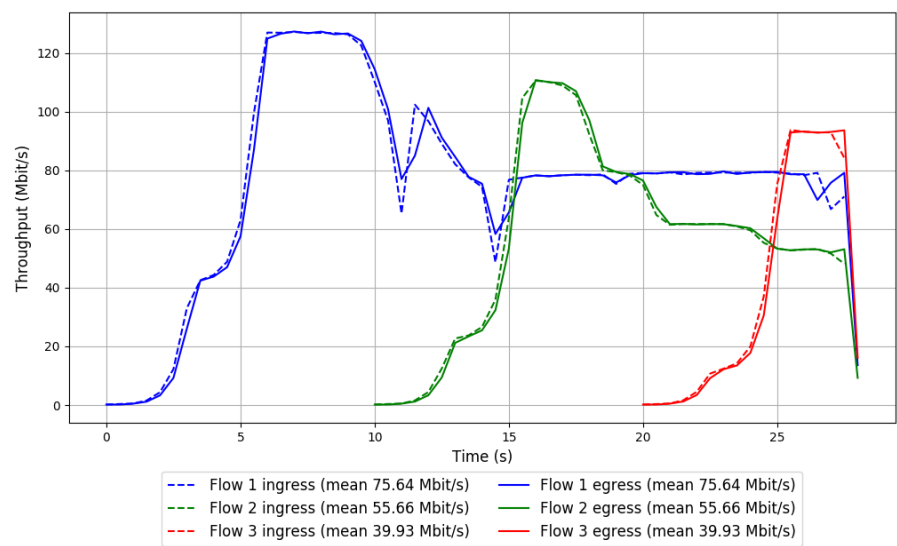
-- Flow 3:

Average throughput: 39.93 Mbit/s

95th percentile per-packet one-way delay: 136.565 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-27 03:26:55

End at: 2018-01-27 03:27:25

Run 5: Report of Copa — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Copa

Start at: 2018-01-27 03:42:59

End at: 2018-01-27 03:43:29

Below is generated by plot.py at 2018-01-27 06:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 103.79 Mbit/s

95th percentile per-packet one-way delay: 137.219 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 137.105 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.39 Mbit/s

95th percentile per-packet one-way delay: 137.364 ms

Loss rate: 0.00%

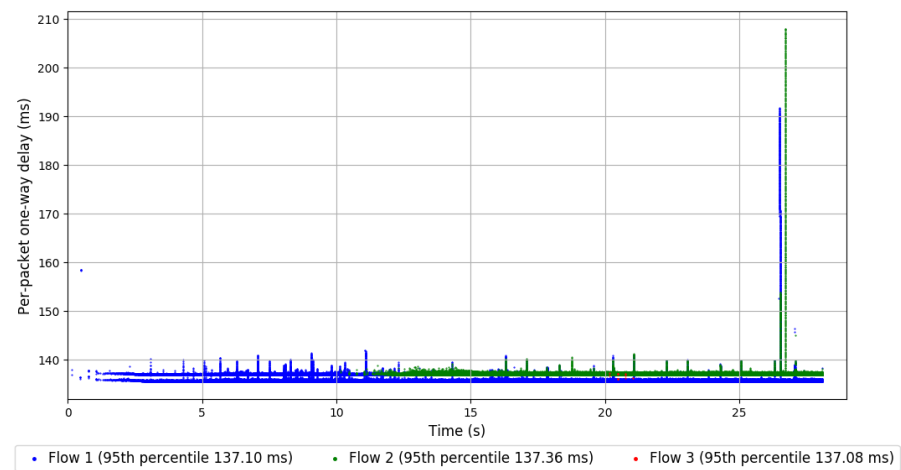
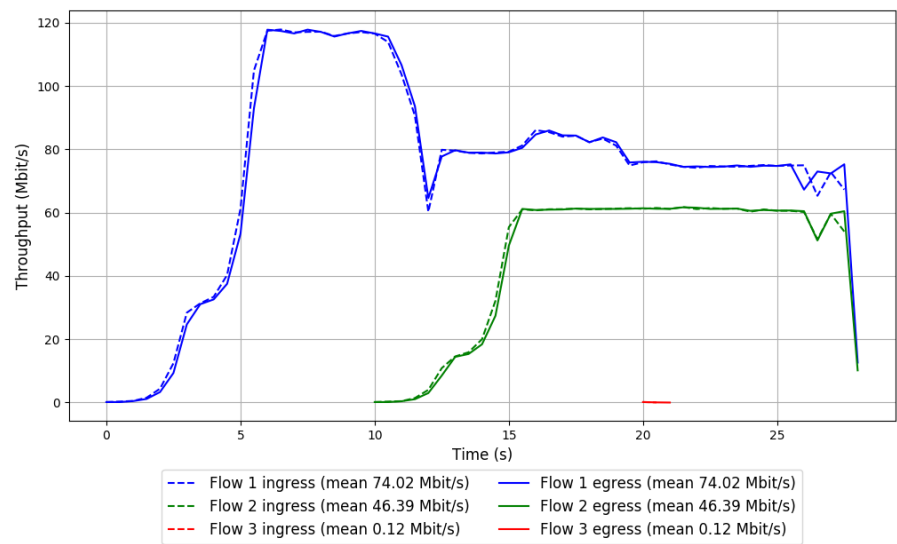
-- Flow 3:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 137.082 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-27 03:59:14

End at: 2018-01-27 03:59:44

Below is generated by plot.py at 2018-01-27 06:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 136.647 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.97 Mbit/s

95th percentile per-packet one-way delay: 136.647 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.955 ms

Loss rate: 0.00%

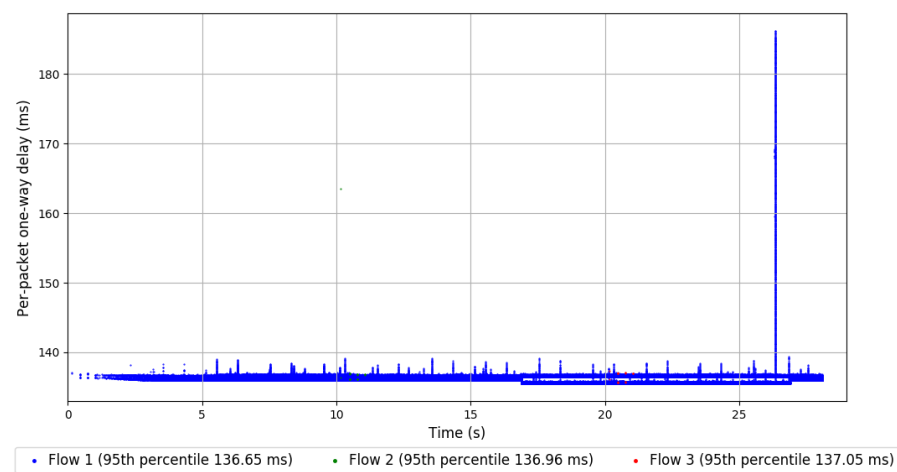
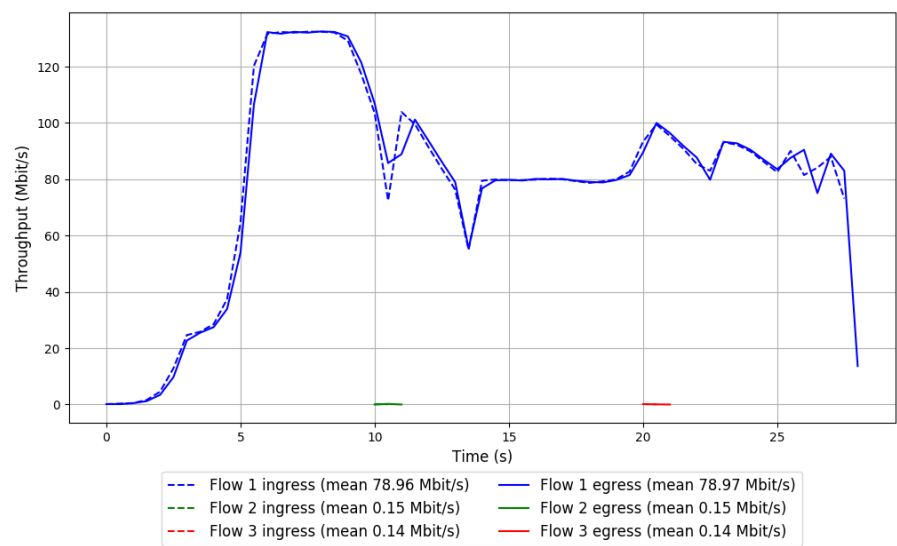
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 137.048 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-27 04:15:32

End at: 2018-01-27 04:16:02

Run 8: Report of Copa — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Copa

Start at: 2018-01-27 04:31:45

End at: 2018-01-27 04:32:15

Below is generated by plot.py at 2018-01-27 06:17:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 40.98 Mbit/s

95th percentile per-packet one-way delay: 136.769 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 137.324 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.83 Mbit/s

95th percentile per-packet one-way delay: 136.769 ms

Loss rate: 0.00%

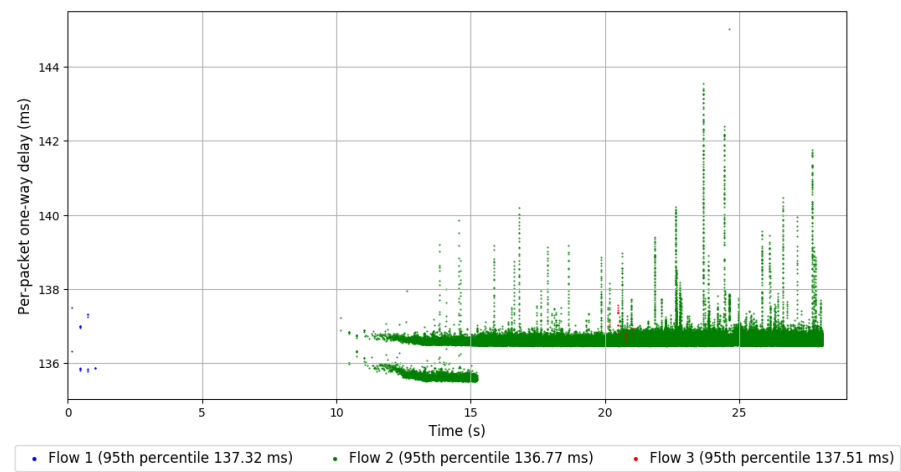
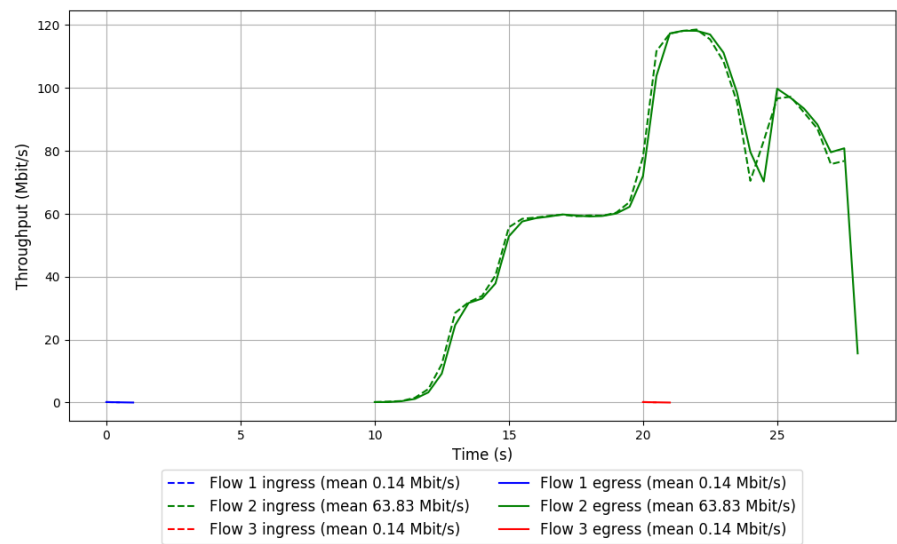
-- Flow 3:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 137.510 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-27 04:47:56

End at: 2018-01-27 04:48:26

Below is generated by plot.py at 2018-01-27 06:18:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.32 Mbit/s

95th percentile per-packet one-way delay: 137.212 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 44.68 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.23 Mbit/s

95th percentile per-packet one-way delay: 137.283 ms

Loss rate: 0.00%

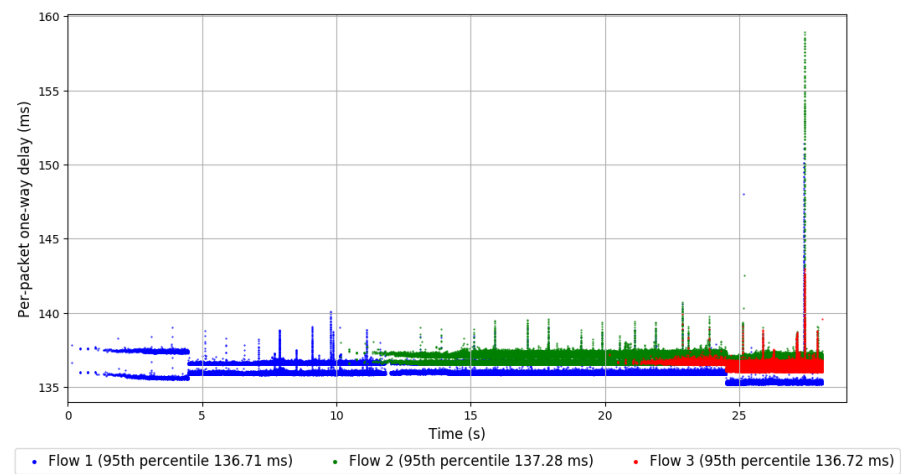
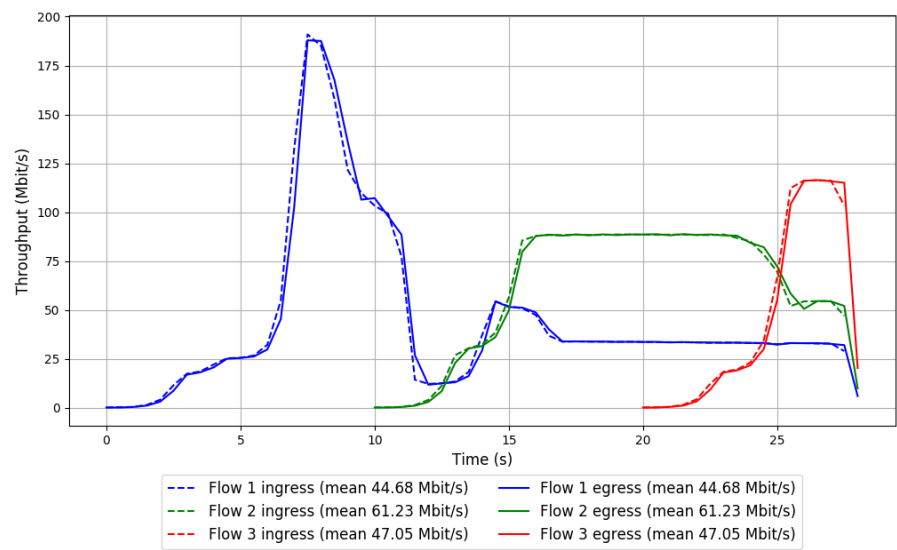
-- Flow 3:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

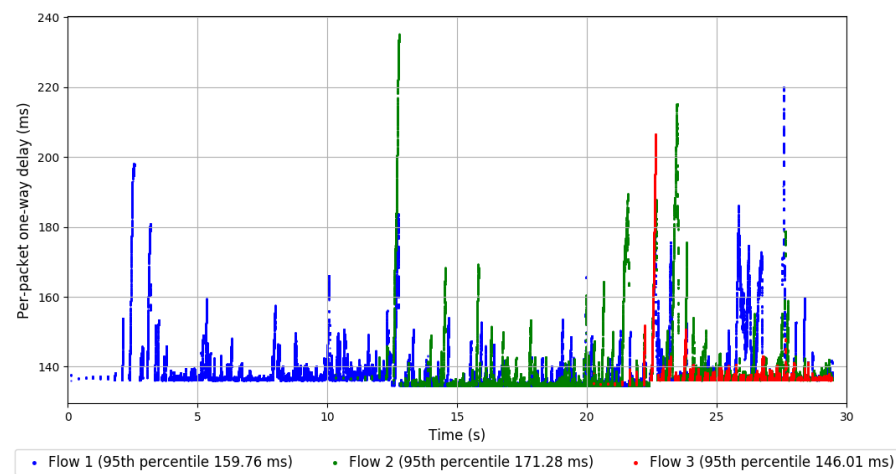
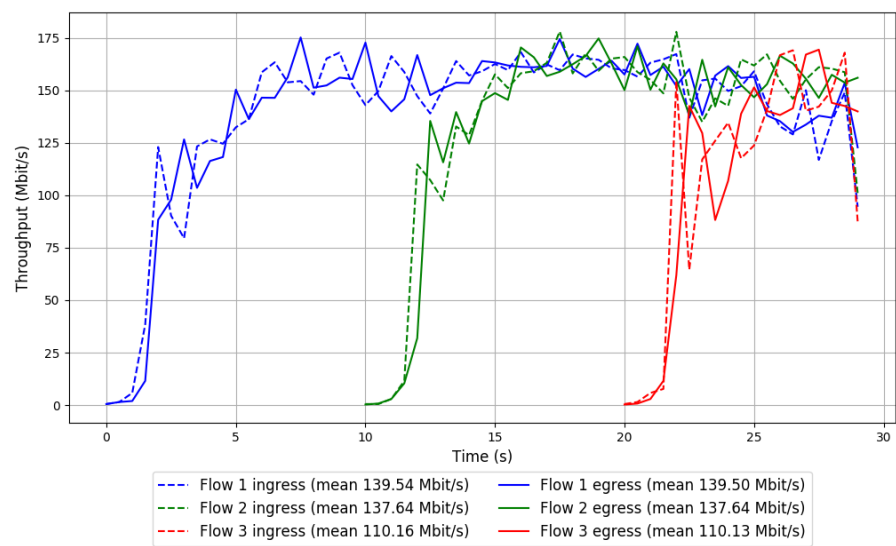


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-27 02:20:30
End at: 2018-01-27 02:21:00

# Below is generated by plot.py at 2018-01-27 06:19:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 263.74 Mbit/s
95th percentile per-packet one-way delay: 162.251 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 139.50 Mbit/s
95th percentile per-packet one-way delay: 159.760 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 137.64 Mbit/s
95th percentile per-packet one-way delay: 171.284 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 110.13 Mbit/s
95th percentile per-packet one-way delay: 146.010 ms
Loss rate: 0.02%
```


Run 1: Report of Indigo-2-256 — Data Link

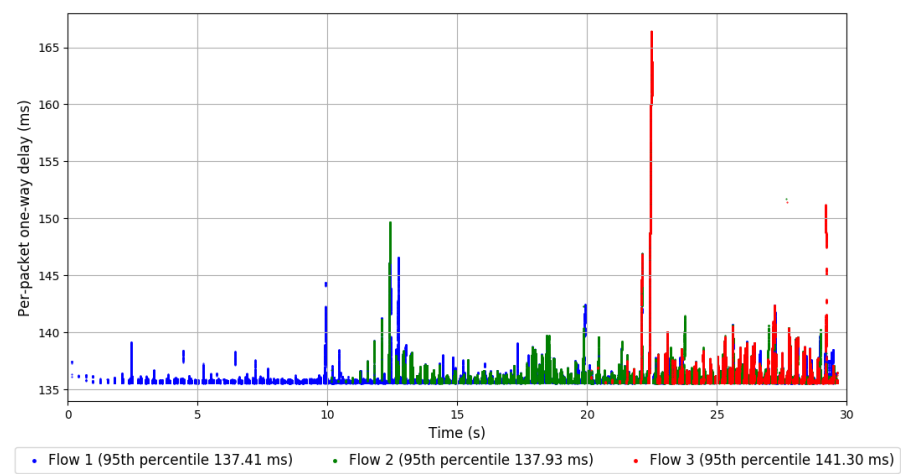
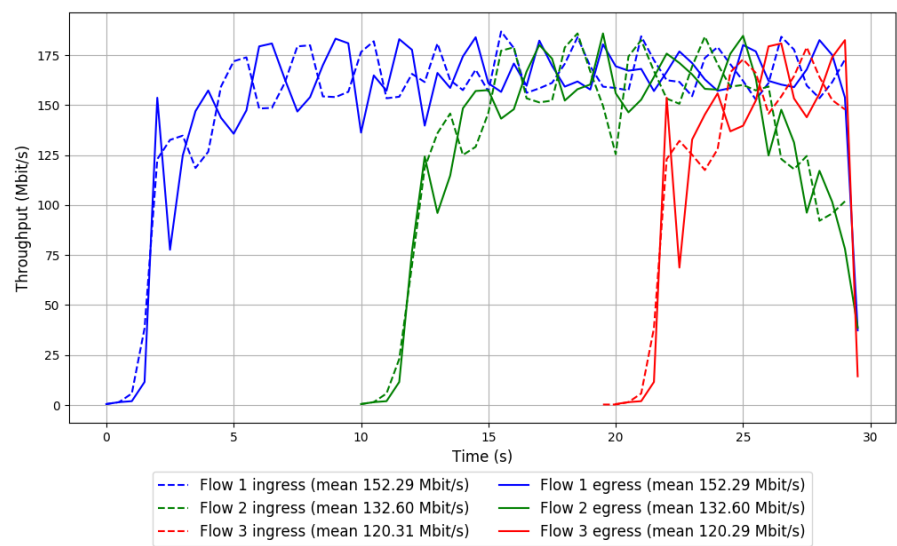


```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-27 02:36:16
End at: 2018-01-27 02:36:46

# Below is generated by plot.py at 2018-01-27 06:20:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.41 Mbit/s
95th percentile per-packet one-way delay: 137.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.29 Mbit/s
95th percentile per-packet one-way delay: 137.411 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 132.60 Mbit/s
95th percentile per-packet one-way delay: 137.928 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 120.29 Mbit/s
95th percentile per-packet one-way delay: 141.301 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-2-256 — Data Link



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-27 02:52:17

End at: 2018-01-27 02:52:47

Below is generated by plot.py at 2018-01-27 06:20:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 223.22 Mbit/s

95th percentile per-packet one-way delay: 151.949 ms

Loss rate: 0.31%

-- Flow 1:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 155.368 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 140.09 Mbit/s

95th percentile per-packet one-way delay: 150.453 ms

Loss rate: 0.27%

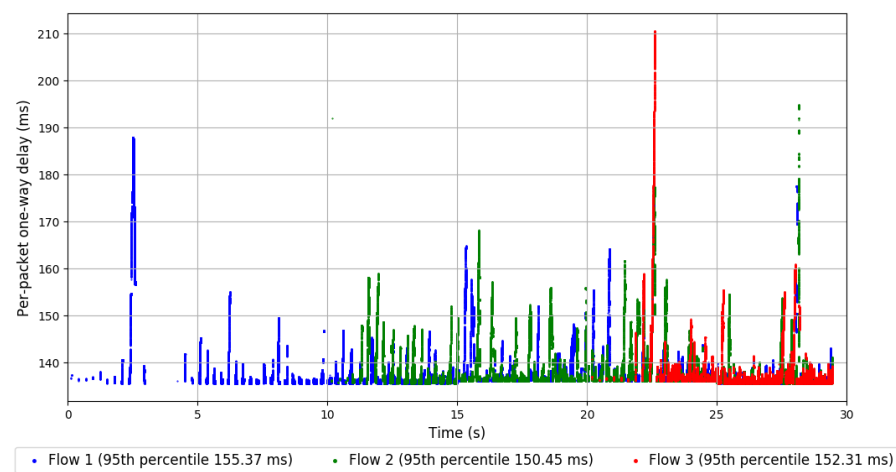
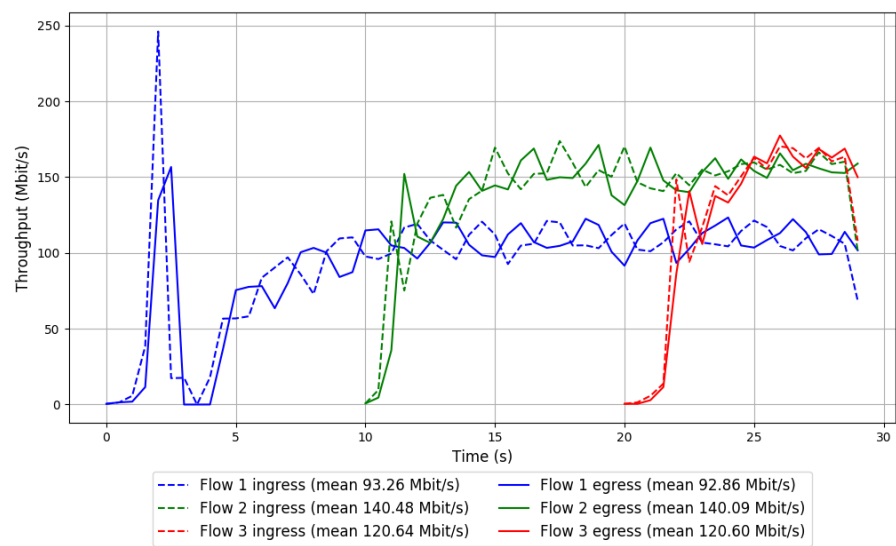
-- Flow 3:

Average throughput: 120.60 Mbit/s

95th percentile per-packet one-way delay: 152.308 ms

Loss rate: 0.01%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-27 03:08:53

End at: 2018-01-27 03:09:23

Below is generated by plot.py at 2018-01-27 06:21:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 274.45 Mbit/s

95th percentile per-packet one-way delay: 148.325 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 143.75 Mbit/s

95th percentile per-packet one-way delay: 148.424 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 140.47 Mbit/s

95th percentile per-packet one-way delay: 147.568 ms

Loss rate: 0.06%

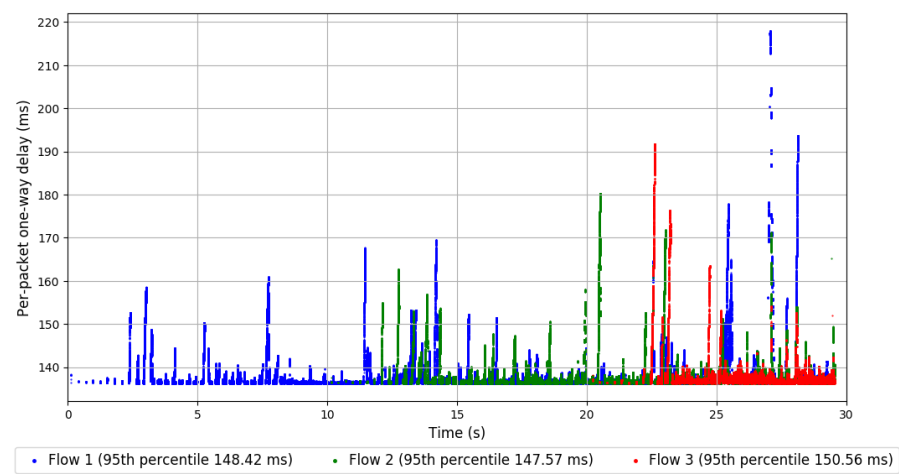
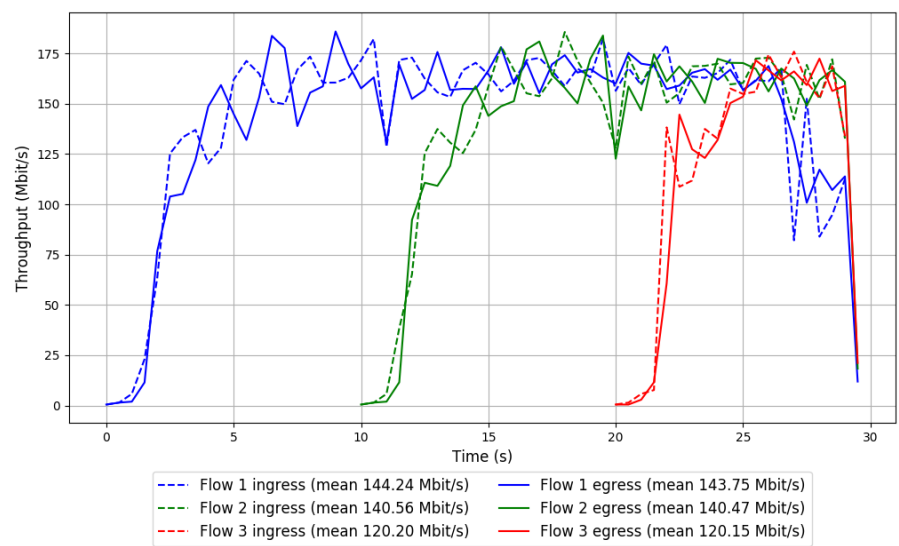
-- Flow 3:

Average throughput: 120.15 Mbit/s

95th percentile per-packet one-way delay: 150.560 ms

Loss rate: 0.05%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-27 03:24:54

End at: 2018-01-27 03:25:24

Below is generated by plot.py at 2018-01-27 06:21:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.77 Mbit/s

95th percentile per-packet one-way delay: 161.711 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 141.56 Mbit/s

95th percentile per-packet one-way delay: 155.558 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 129.76 Mbit/s

95th percentile per-packet one-way delay: 171.581 ms

Loss rate: 0.01%

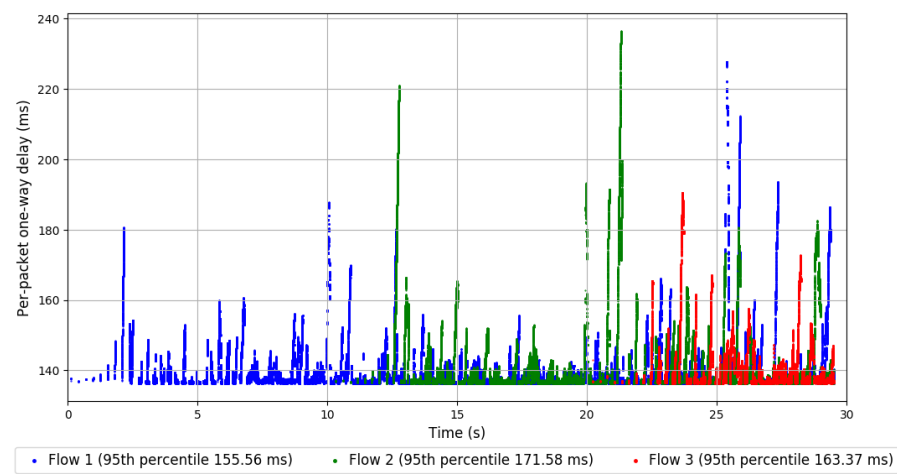
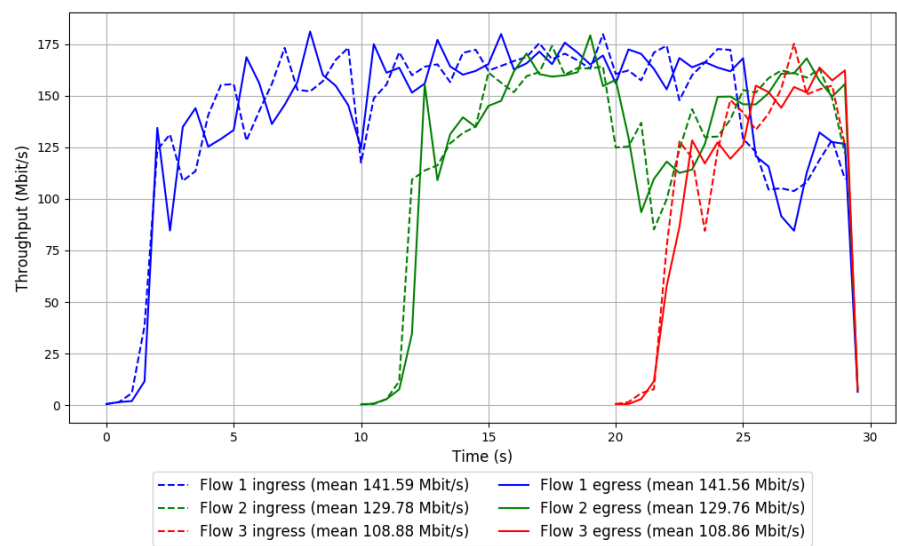
-- Flow 3:

Average throughput: 108.86 Mbit/s

95th percentile per-packet one-way delay: 163.367 ms

Loss rate: 0.02%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-27 03:40:59

End at: 2018-01-27 03:41:29

Below is generated by plot.py at 2018-01-27 06:21:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 246.45 Mbit/s

95th percentile per-packet one-way delay: 153.458 ms

Loss rate: 0.22%

-- Flow 1:

Average throughput: 130.00 Mbit/s

95th percentile per-packet one-way delay: 152.745 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 141.23 Mbit/s

95th percentile per-packet one-way delay: 151.426 ms

Loss rate: 0.01%

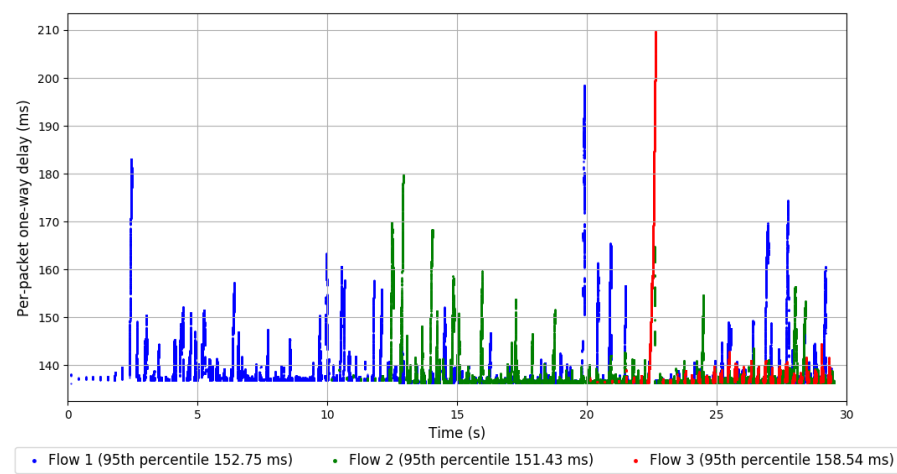
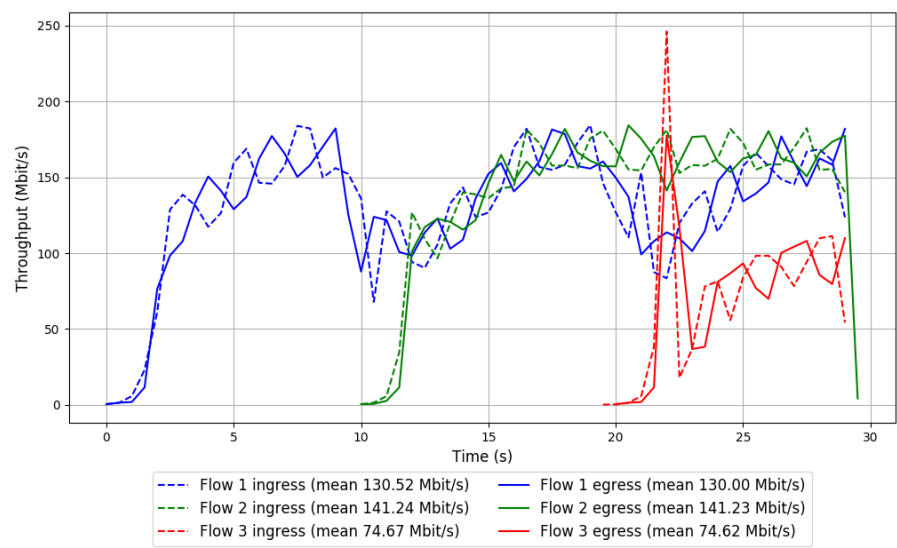
-- Flow 3:

Average throughput: 74.62 Mbit/s

95th percentile per-packet one-way delay: 158.543 ms

Loss rate: 0.05%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-27 03:57:15

End at: 2018-01-27 03:57:45

Below is generated by plot.py at 2018-01-27 06:21:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.93 Mbit/s

95th percentile per-packet one-way delay: 138.761 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 151.35 Mbit/s

95th percentile per-packet one-way delay: 138.389 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 94.70 Mbit/s

95th percentile per-packet one-way delay: 156.069 ms

Loss rate: 0.01%

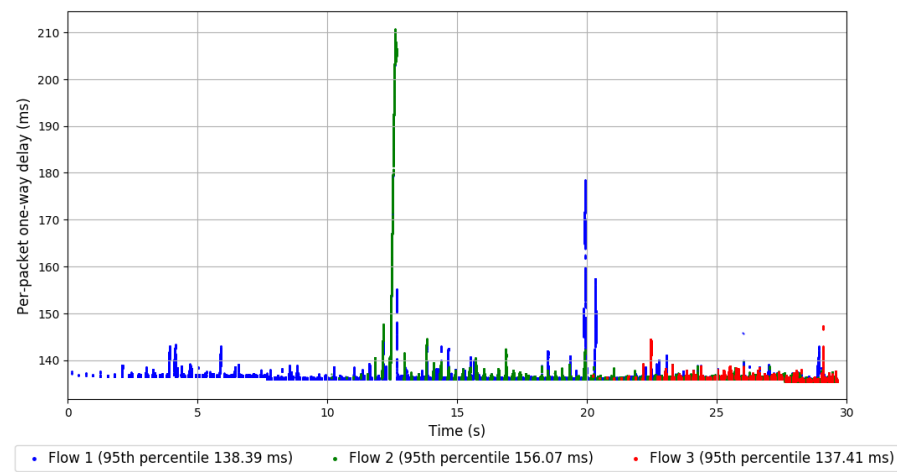
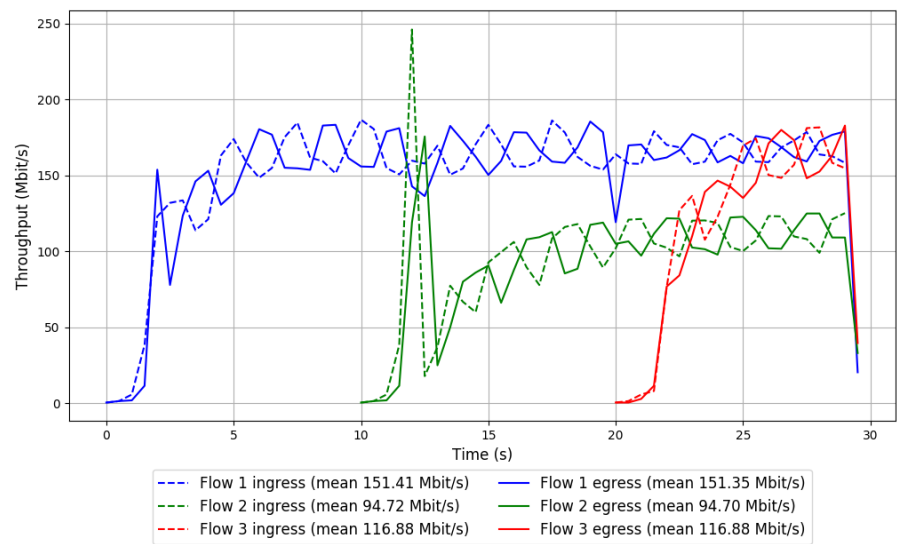
-- Flow 3:

Average throughput: 116.88 Mbit/s

95th percentile per-packet one-way delay: 137.408 ms

Loss rate: 0.01%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-27 04:13:30

End at: 2018-01-27 04:14:00

Below is generated by plot.py at 2018-01-27 06:23:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.33 Mbit/s

95th percentile per-packet one-way delay: 145.145 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 150.04 Mbit/s

95th percentile per-packet one-way delay: 145.157 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 140.16 Mbit/s

95th percentile per-packet one-way delay: 145.824 ms

Loss rate: 0.42%

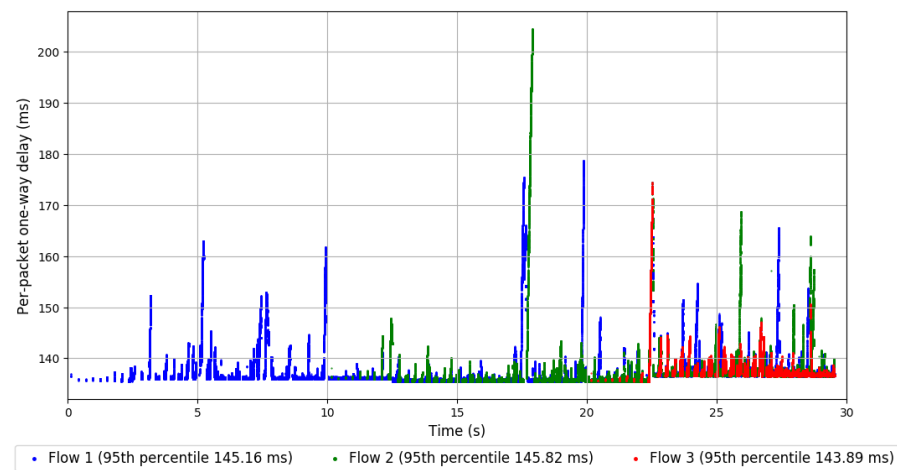
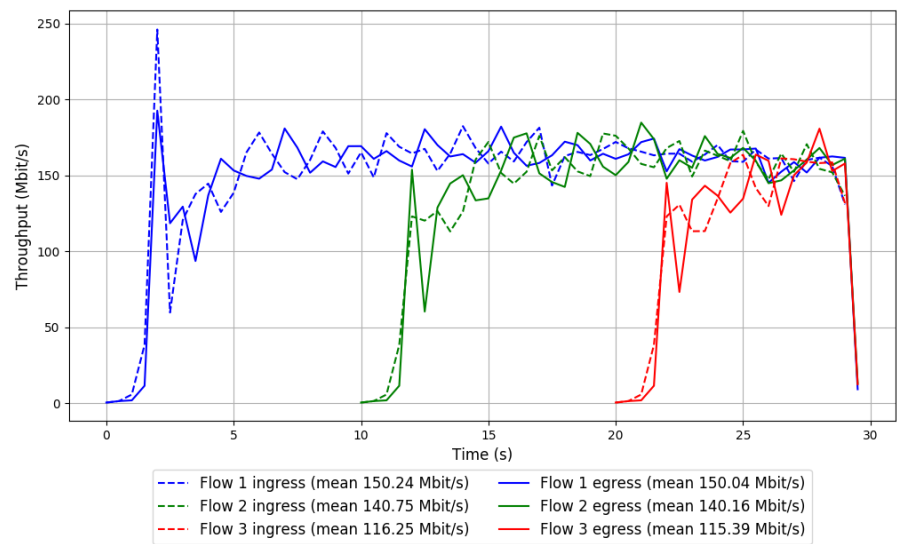
-- Flow 3:

Average throughput: 115.39 Mbit/s

95th percentile per-packet one-way delay: 143.894 ms

Loss rate: 0.73%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-27 04:29:43

End at: 2018-01-27 04:30:13

Below is generated by plot.py at 2018-01-27 06:24:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 277.54 Mbit/s

95th percentile per-packet one-way delay: 144.777 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 147.41 Mbit/s

95th percentile per-packet one-way delay: 140.294 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 142.92 Mbit/s

95th percentile per-packet one-way delay: 148.399 ms

Loss rate: 0.15%

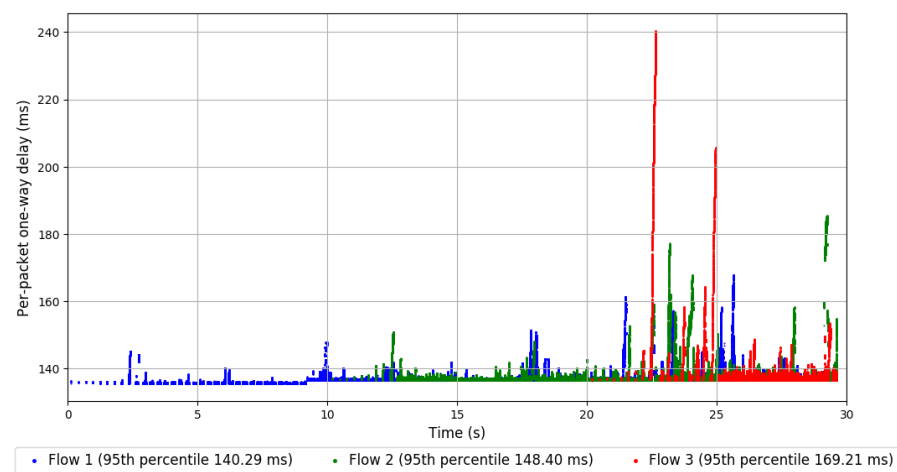
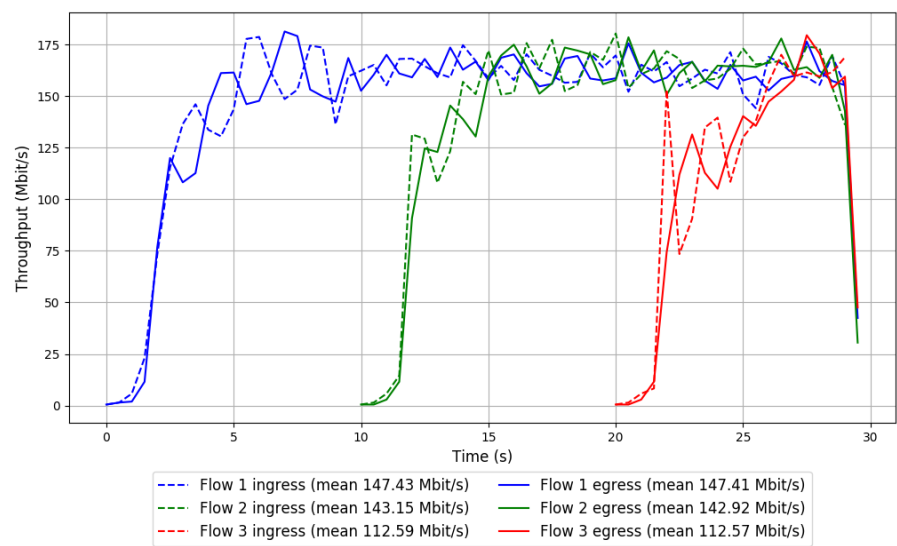
-- Flow 3:

Average throughput: 112.57 Mbit/s

95th percentile per-packet one-way delay: 169.212 ms

Loss rate: 0.02%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-27 04:45:54

End at: 2018-01-27 04:46:24

Below is generated by plot.py at 2018-01-27 06:24:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 286.35 Mbit/s

95th percentile per-packet one-way delay: 138.264 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 151.13 Mbit/s

95th percentile per-packet one-way delay: 137.954 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 144.71 Mbit/s

95th percentile per-packet one-way delay: 137.999 ms

Loss rate: 0.01%

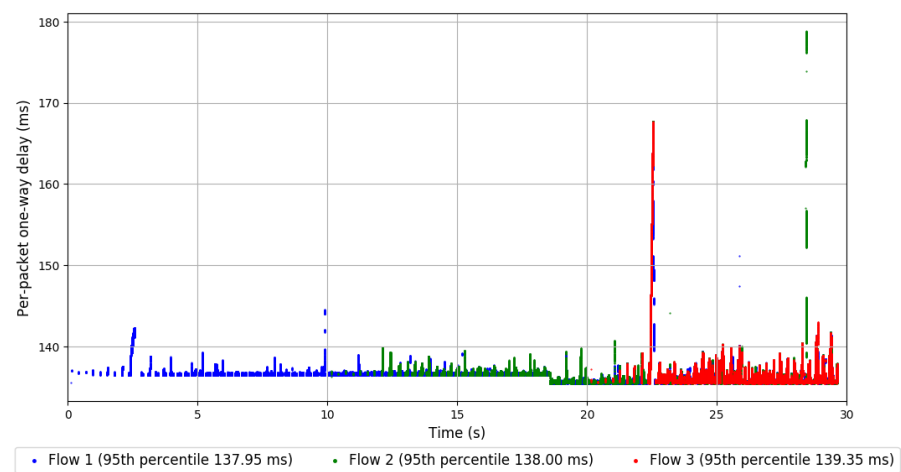
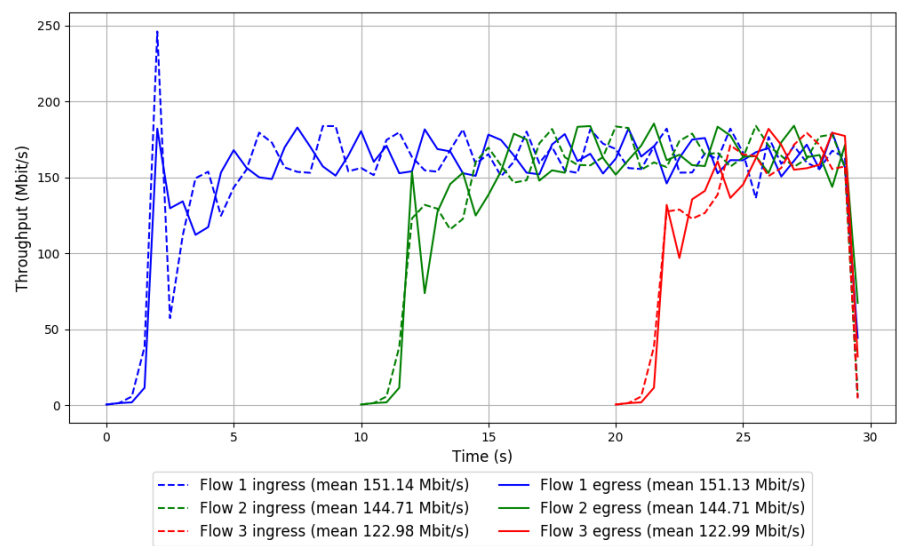
-- Flow 3:

Average throughput: 122.99 Mbit/s

95th percentile per-packet one-way delay: 139.352 ms

Loss rate: 0.00%

Run 10: Report of Indigo-2-256 — Data Link

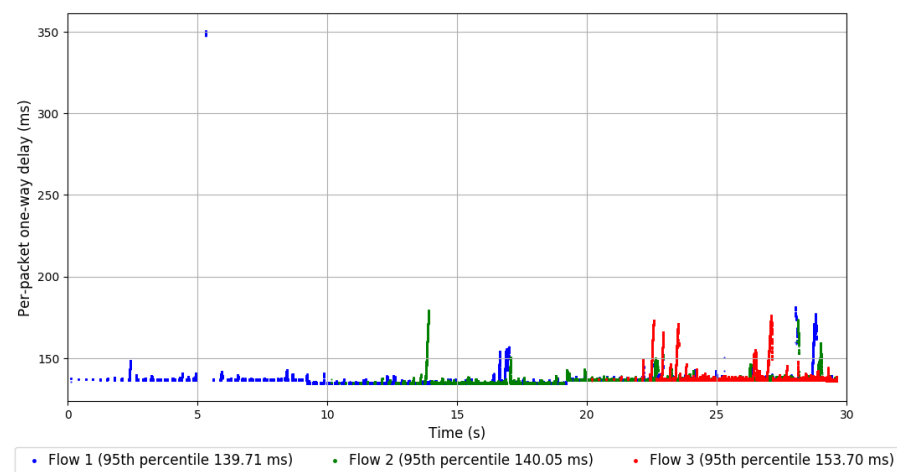
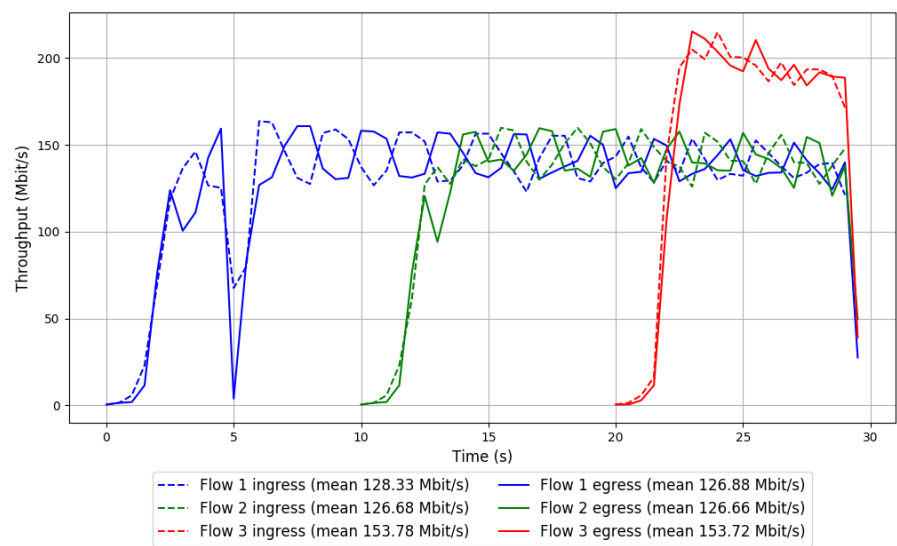


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-27 02:16:23
End at: 2018-01-27 02:16:53

# Below is generated by plot.py at 2018-01-27 06:24:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.57 Mbit/s
95th percentile per-packet one-way delay: 142.262 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 126.88 Mbit/s
95th percentile per-packet one-way delay: 139.708 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 126.66 Mbit/s
95th percentile per-packet one-way delay: 140.046 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 153.72 Mbit/s
95th percentile per-packet one-way delay: 153.698 ms
Loss rate: 0.01%
```

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

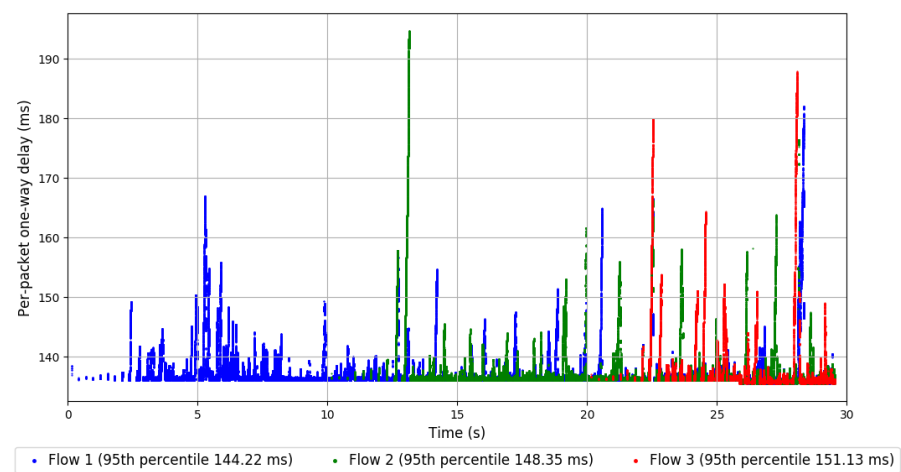
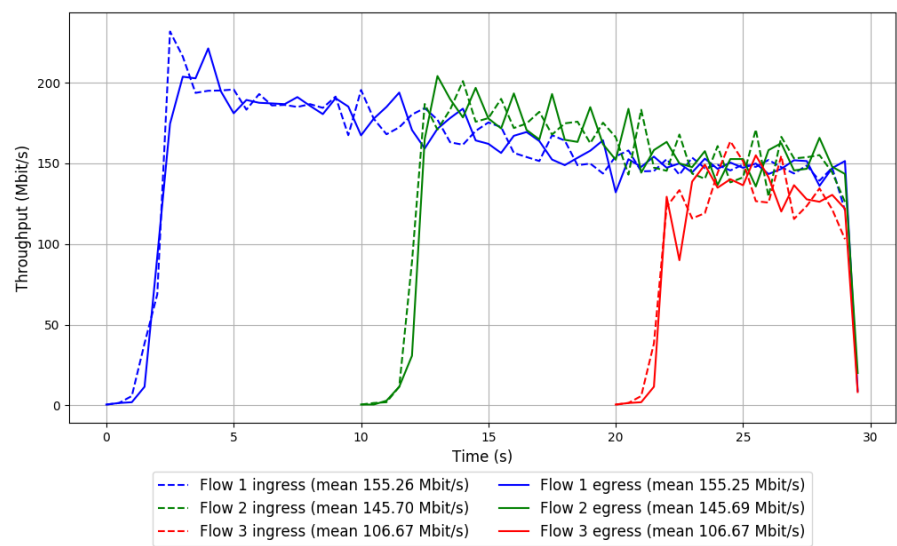


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-27 02:32:06
End at: 2018-01-27 02:32:36

# Below is generated by plot.py at 2018-01-27 06:25:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.37 Mbit/s
95th percentile per-packet one-way delay: 146.932 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 155.25 Mbit/s
95th percentile per-packet one-way delay: 144.219 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 145.69 Mbit/s
95th percentile per-packet one-way delay: 148.346 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 106.67 Mbit/s
95th percentile per-packet one-way delay: 151.133 ms
Loss rate: 0.01%
```

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

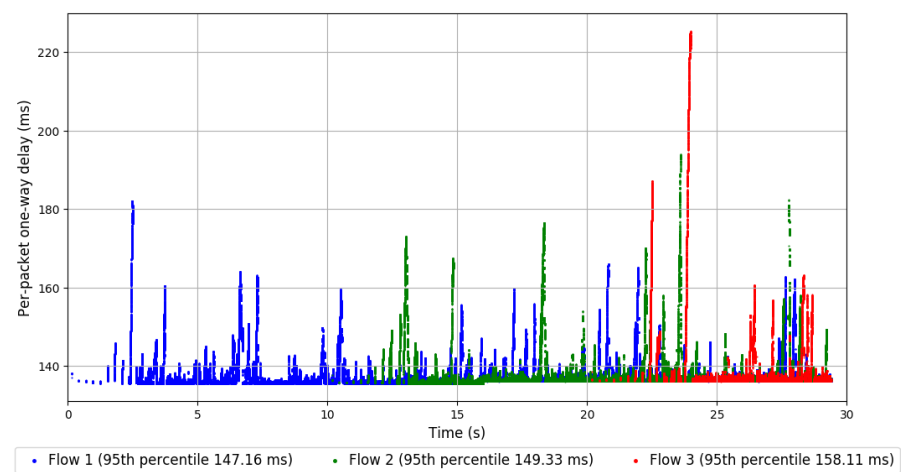
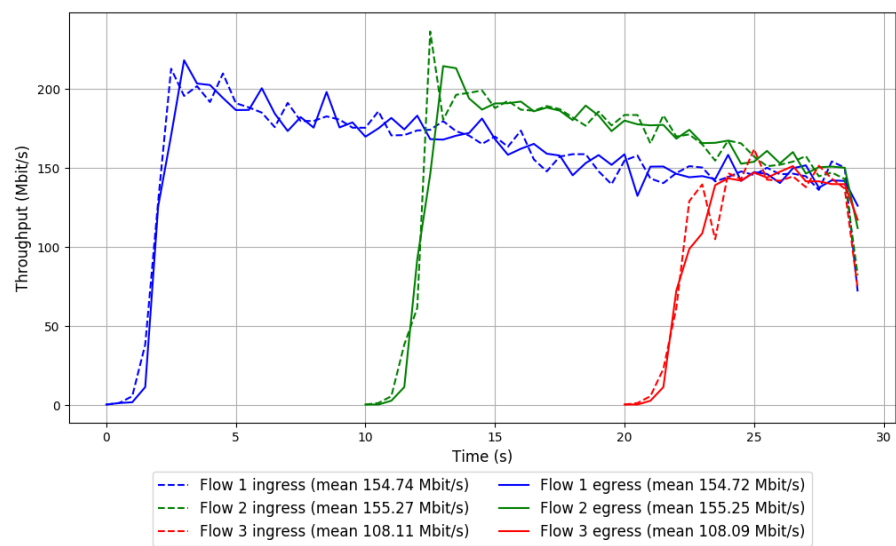


```
Run 3: Statistics of Indigo-1-32

Start at: 2018-01-27 02:48:06
End at: 2018-01-27 02:48:36

# Below is generated by plot.py at 2018-01-27 06:26:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.75 Mbit/s
95th percentile per-packet one-way delay: 149.354 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 154.72 Mbit/s
95th percentile per-packet one-way delay: 147.155 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 155.25 Mbit/s
95th percentile per-packet one-way delay: 149.331 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 108.09 Mbit/s
95th percentile per-packet one-way delay: 158.112 ms
Loss rate: 0.02%
```


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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-27 03:04:06

End at: 2018-01-27 03:04:36

Below is generated by plot.py at 2018-01-27 06:26:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 319.55 Mbit/s

95th percentile per-packet one-way delay: 142.090 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 160.09 Mbit/s

95th percentile per-packet one-way delay: 143.211 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 169.11 Mbit/s

95th percentile per-packet one-way delay: 142.249 ms

Loss rate: 0.00%

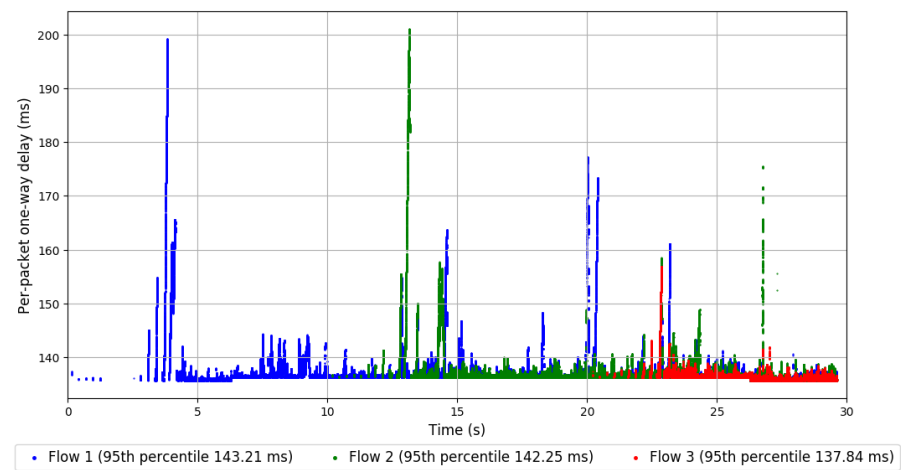
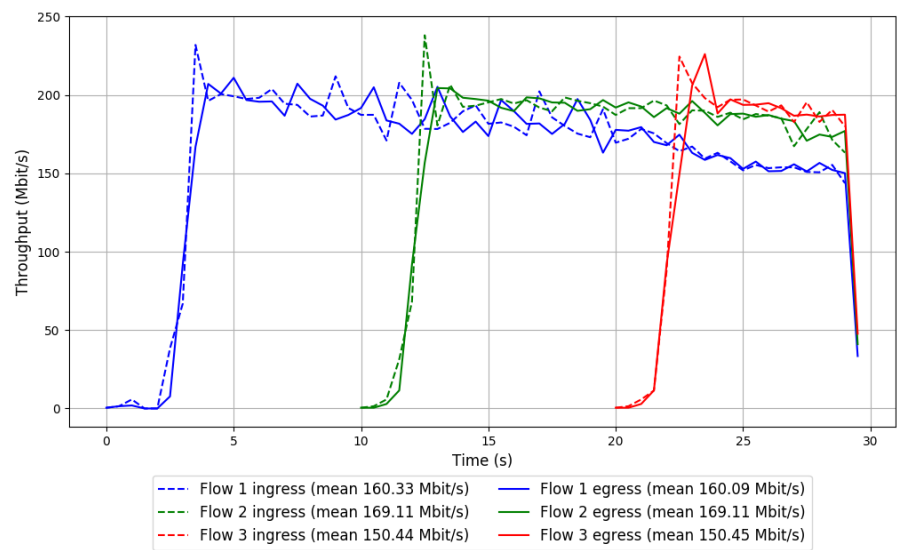
-- Flow 3:

Average throughput: 150.45 Mbit/s

95th percentile per-packet one-way delay: 137.841 ms

Loss rate: 0.01%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-27 03:20:43

End at: 2018-01-27 03:21:13

Below is generated by plot.py at 2018-01-27 06:26:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.08 Mbit/s

95th percentile per-packet one-way delay: 145.710 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 162.72 Mbit/s

95th percentile per-packet one-way delay: 144.017 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 124.72 Mbit/s

95th percentile per-packet one-way delay: 147.500 ms

Loss rate: 0.02%

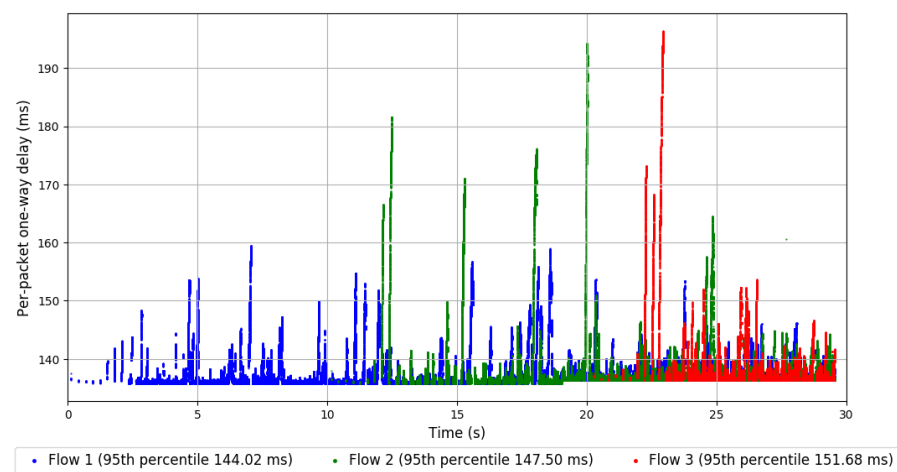
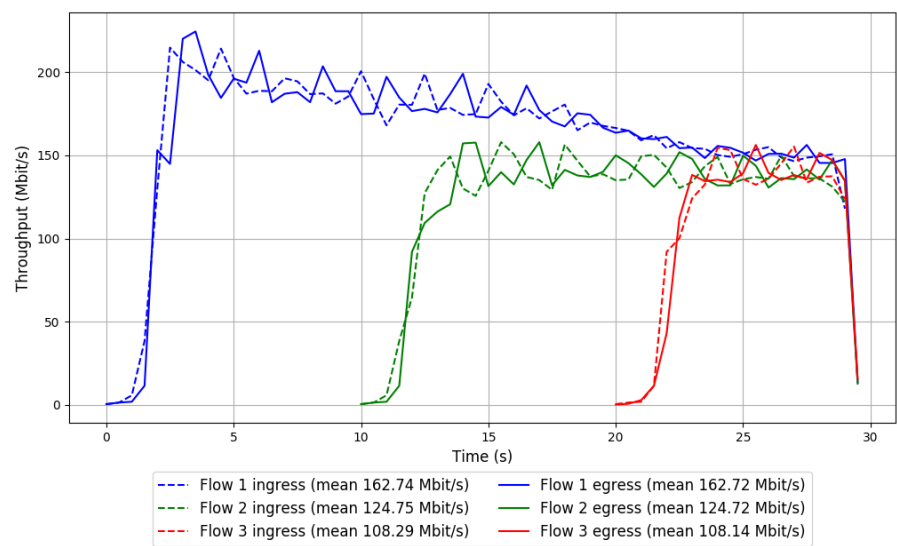
-- Flow 3:

Average throughput: 108.14 Mbit/s

95th percentile per-packet one-way delay: 151.678 ms

Loss rate: 0.12%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-27 03:36:38

End at: 2018-01-27 03:37:08

Below is generated by plot.py at 2018-01-27 06:28:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.65 Mbit/s

95th percentile per-packet one-way delay: 140.018 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 173.13 Mbit/s

95th percentile per-packet one-way delay: 138.766 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 128.90 Mbit/s

95th percentile per-packet one-way delay: 141.180 ms

Loss rate: 0.01%

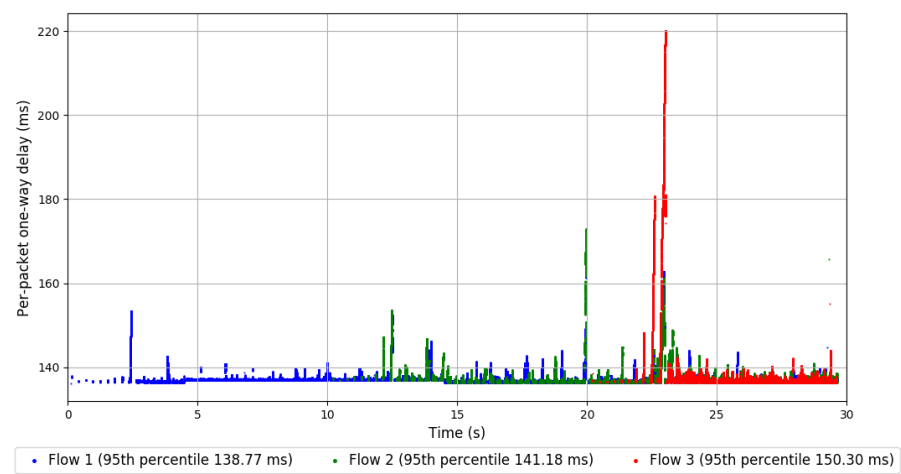
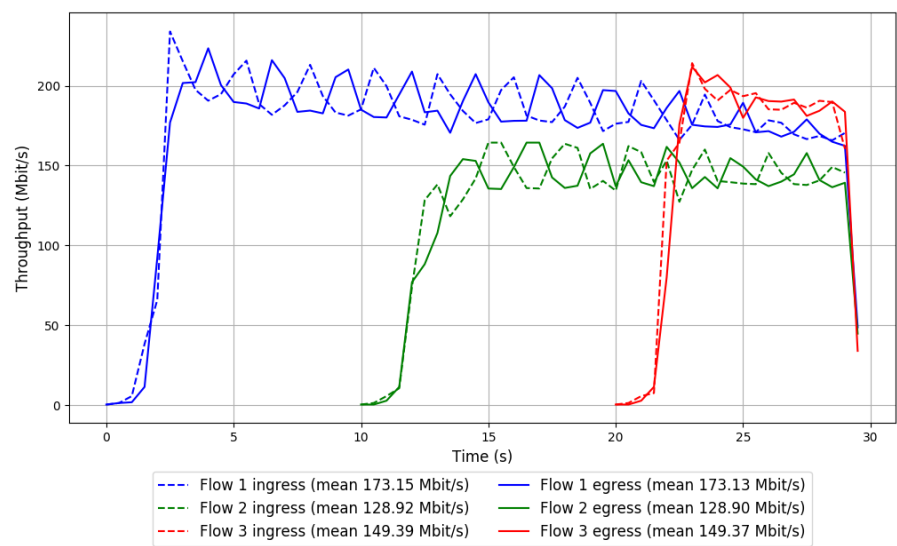
-- Flow 3:

Average throughput: 149.37 Mbit/s

95th percentile per-packet one-way delay: 150.299 ms

Loss rate: 0.01%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-27 03:52:52

End at: 2018-01-27 03:53:22

Below is generated by plot.py at 2018-01-27 06:29:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.07 Mbit/s

95th percentile per-packet one-way delay: 139.938 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 162.23 Mbit/s

95th percentile per-packet one-way delay: 138.972 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 129.20 Mbit/s

95th percentile per-packet one-way delay: 140.844 ms

Loss rate: 0.62%

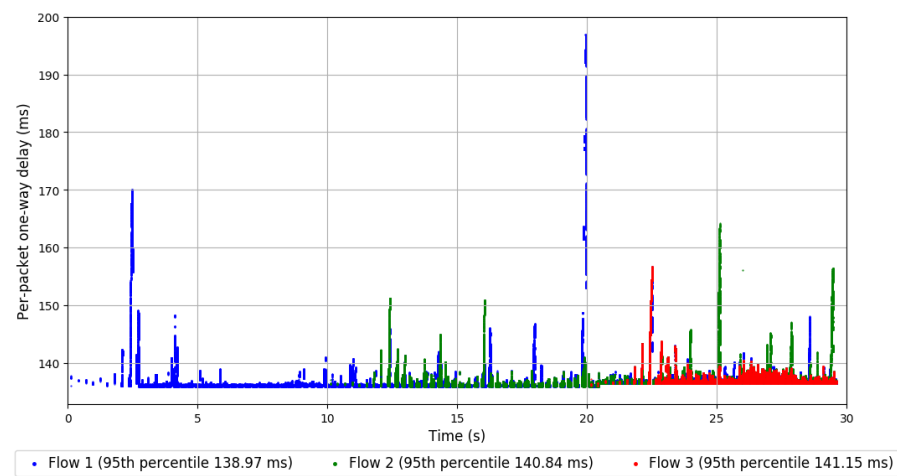
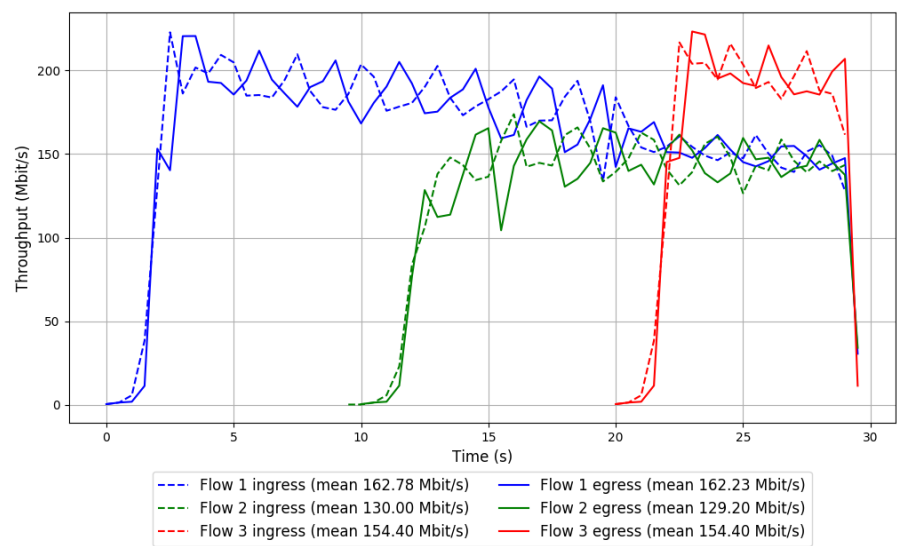
-- Flow 3:

Average throughput: 154.40 Mbit/s

95th percentile per-packet one-way delay: 141.153 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-27 04:09:07

End at: 2018-01-27 04:09:37

Below is generated by plot.py at 2018-01-27 06:29:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.37 Mbit/s

95th percentile per-packet one-way delay: 139.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 160.88 Mbit/s

95th percentile per-packet one-way delay: 138.592 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 163.91 Mbit/s

95th percentile per-packet one-way delay: 140.418 ms

Loss rate: 0.00%

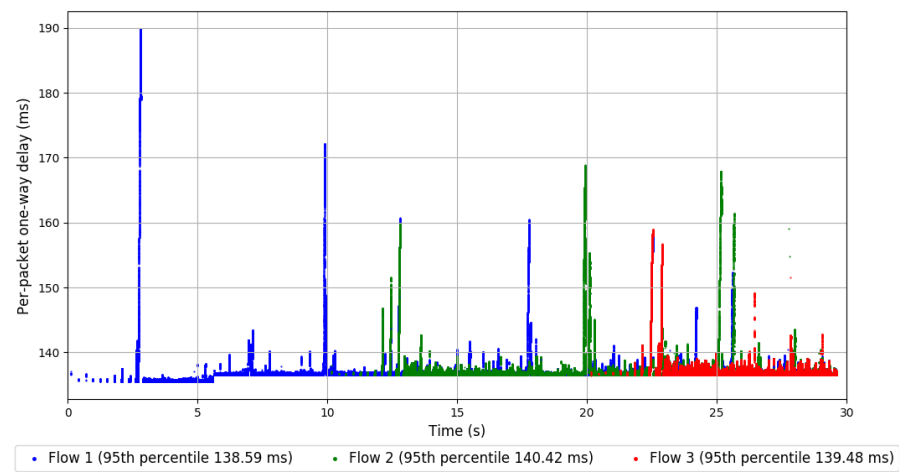
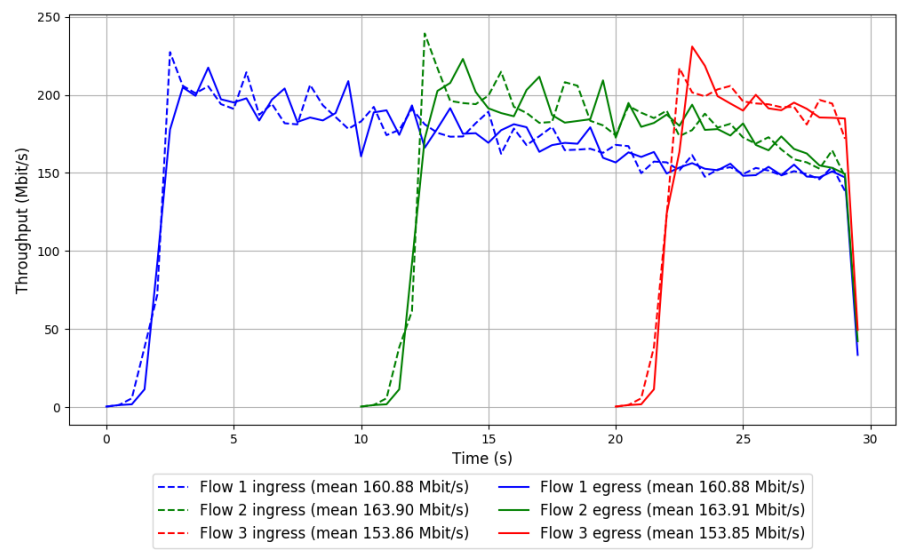
-- Flow 3:

Average throughput: 153.85 Mbit/s

95th percentile per-packet one-way delay: 139.483 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-27 04:25:10

End at: 2018-01-27 04:25:40

Below is generated by plot.py at 2018-01-27 06:29:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 321.42 Mbit/s

95th percentile per-packet one-way delay: 141.867 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 175.15 Mbit/s

95th percentile per-packet one-way delay: 141.103 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 143.758 ms

Loss rate: 0.01%

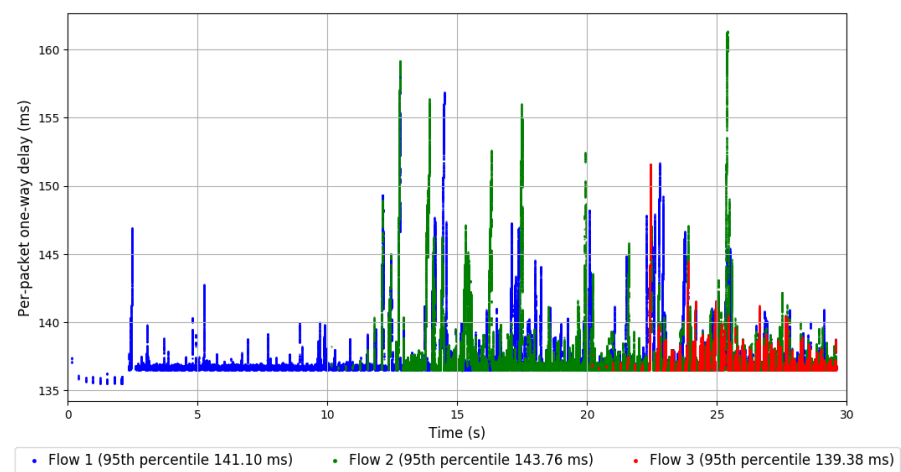
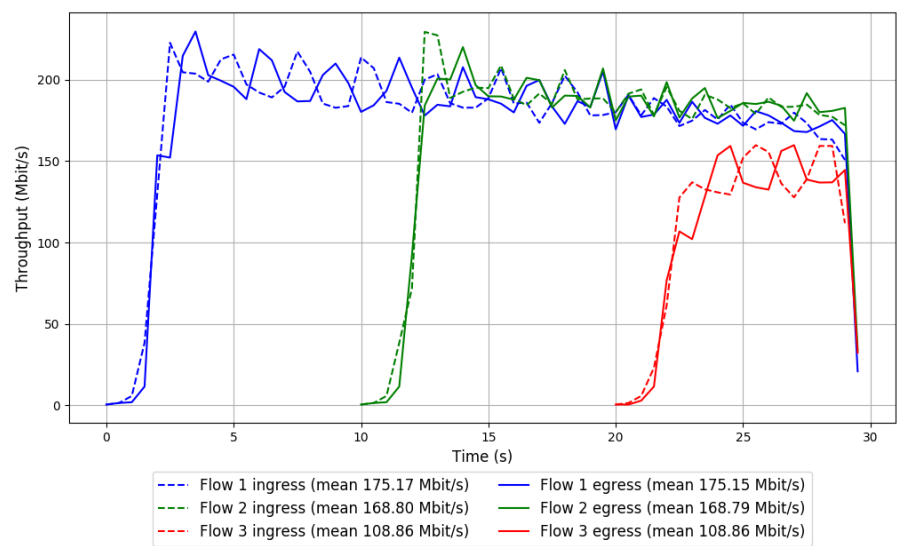
-- Flow 3:

Average throughput: 108.86 Mbit/s

95th percentile per-packet one-way delay: 139.383 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-27 04:41:35

End at: 2018-01-27 04:42:05

Below is generated by plot.py at 2018-01-27 06:31:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.95 Mbit/s

95th percentile per-packet one-way delay: 138.007 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 178.19 Mbit/s

95th percentile per-packet one-way delay: 137.558 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 166.37 Mbit/s

95th percentile per-packet one-way delay: 138.356 ms

Loss rate: 0.00%

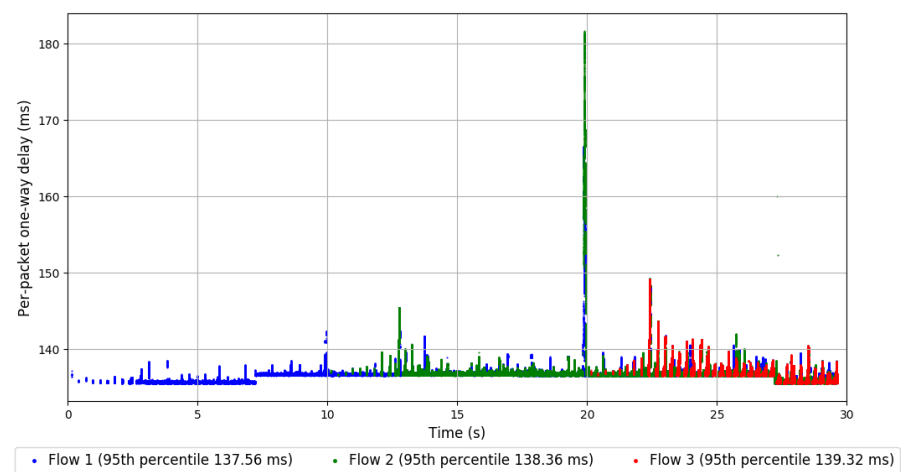
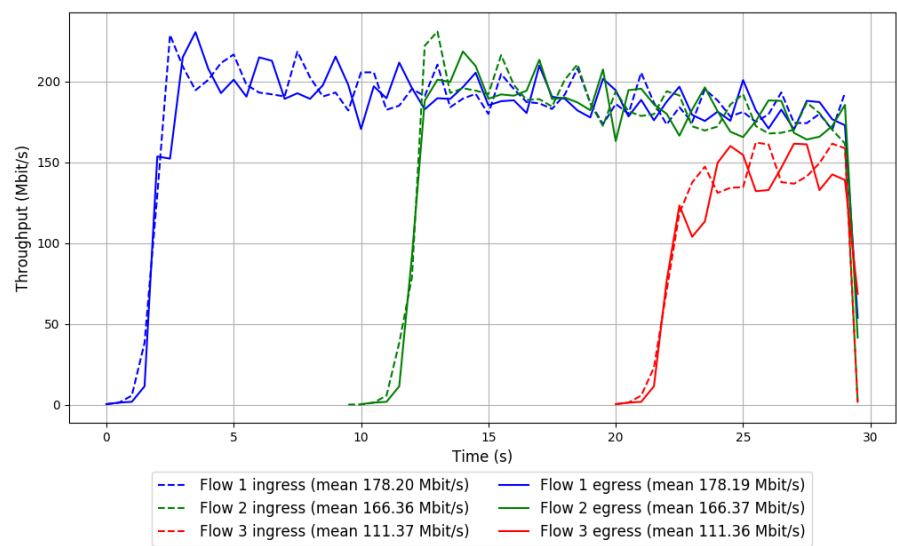
-- Flow 3:

Average throughput: 111.36 Mbit/s

95th percentile per-packet one-way delay: 139.317 ms

Loss rate: 0.02%

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

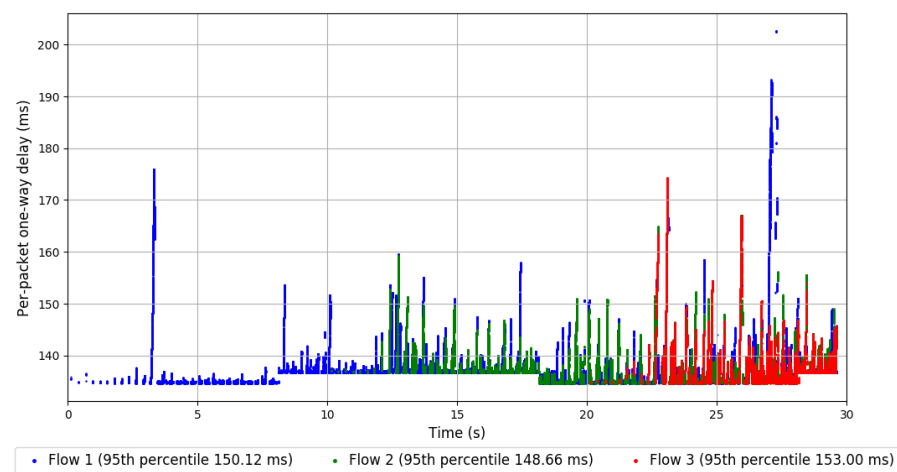
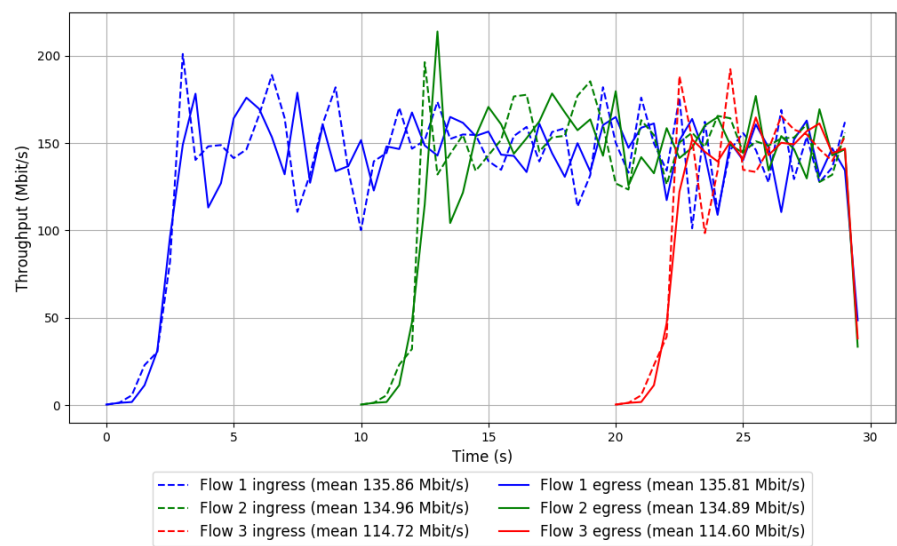


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-27 02:13:34
End at: 2018-01-27 02:14:04

# Below is generated by plot.py at 2018-01-27 06:31:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 261.58 Mbit/s
95th percentile per-packet one-way delay: 149.695 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 135.81 Mbit/s
95th percentile per-packet one-way delay: 150.115 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 134.89 Mbit/s
95th percentile per-packet one-way delay: 148.658 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 114.60 Mbit/s
95th percentile per-packet one-way delay: 152.995 ms
Loss rate: 0.04%
```


Run 1: Report of Indigo-1-128 — Data Link



Run 2: Statistics of Indigo-1-128

Start at: 2018-01-27 02:29:18

End at: 2018-01-27 02:29:48

Below is generated by plot.py at 2018-01-27 06:31:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.49 Mbit/s

95th percentile per-packet one-way delay: 146.103 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 131.73 Mbit/s

95th percentile per-packet one-way delay: 148.009 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 128.93 Mbit/s

95th percentile per-packet one-way delay: 144.116 ms

Loss rate: 0.07%

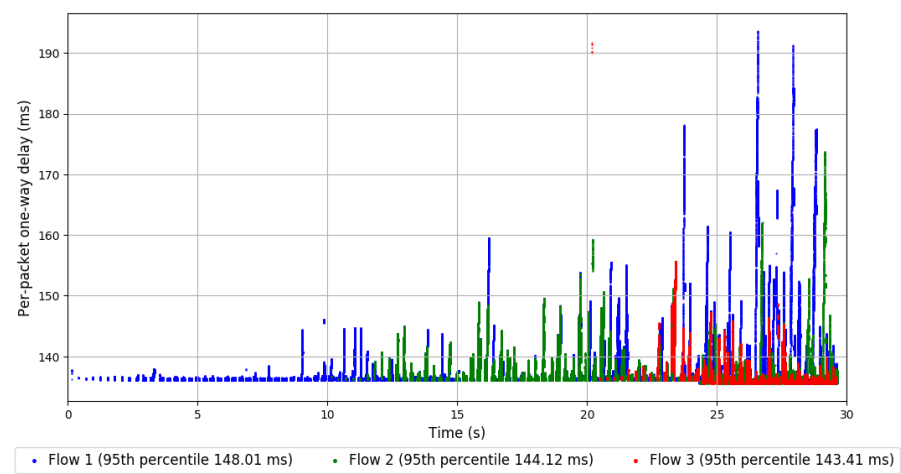
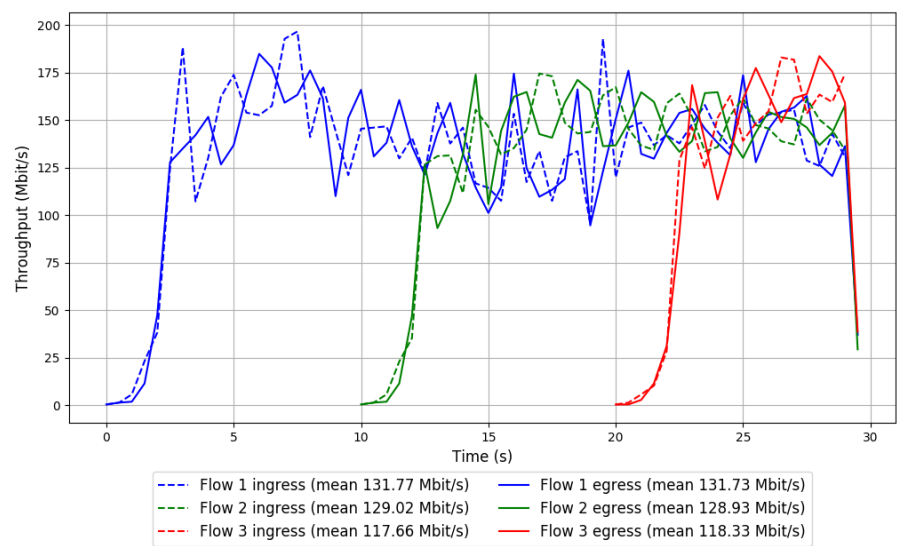
-- Flow 3:

Average throughput: 118.33 Mbit/s

95th percentile per-packet one-way delay: 143.408 ms

Loss rate: 0.00%

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-27 02:45:17

End at: 2018-01-27 02:45:47

Below is generated by plot.py at 2018-01-27 06:31:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.73 Mbit/s

95th percentile per-packet one-way delay: 150.966 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 136.17 Mbit/s

95th percentile per-packet one-way delay: 148.861 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 134.27 Mbit/s

95th percentile per-packet one-way delay: 152.074 ms

Loss rate: 0.00%

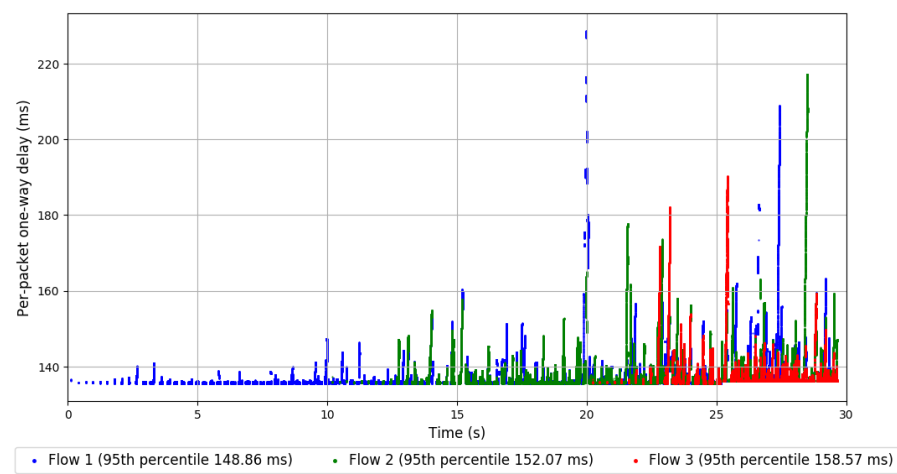
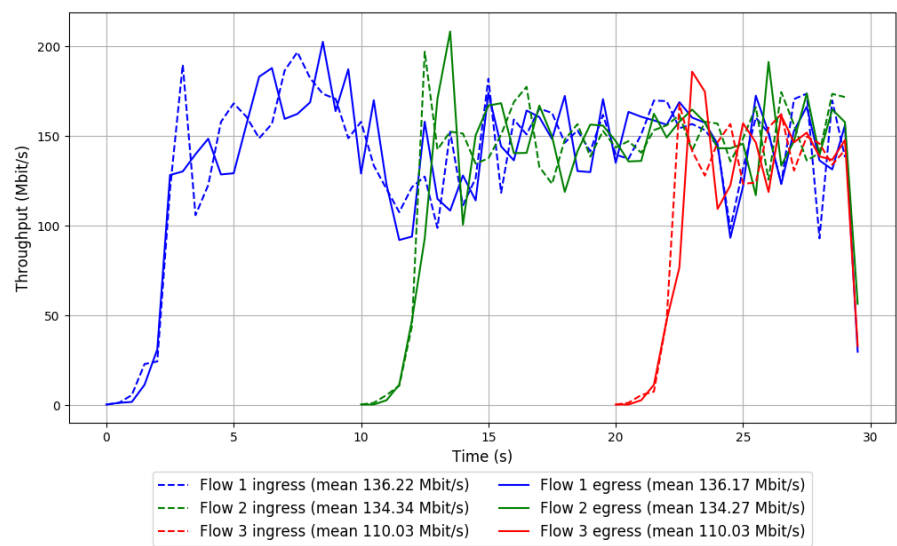
-- Flow 3:

Average throughput: 110.03 Mbit/s

95th percentile per-packet one-way delay: 158.567 ms

Loss rate: 0.00%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-27 03:01:16

End at: 2018-01-27 03:01:46

Below is generated by plot.py at 2018-01-27 06:32:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.45 Mbit/s

95th percentile per-packet one-way delay: 145.696 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 139.10 Mbit/s

95th percentile per-packet one-way delay: 143.829 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 137.52 Mbit/s

95th percentile per-packet one-way delay: 147.985 ms

Loss rate: 0.01%

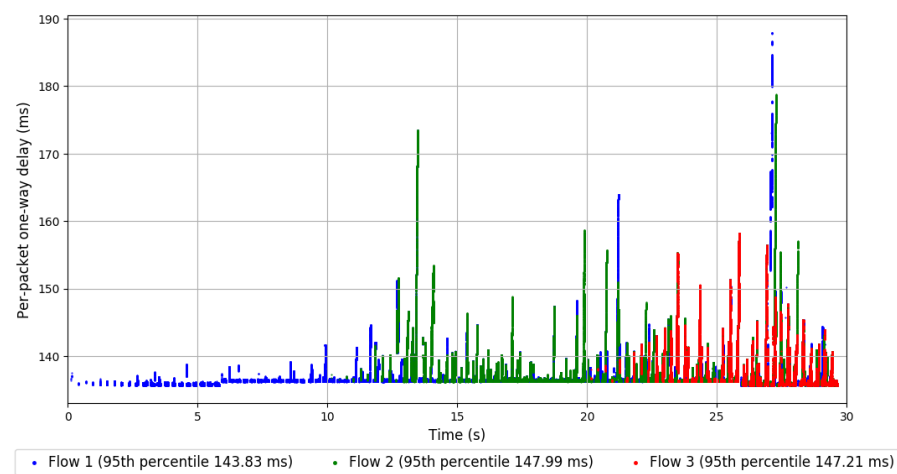
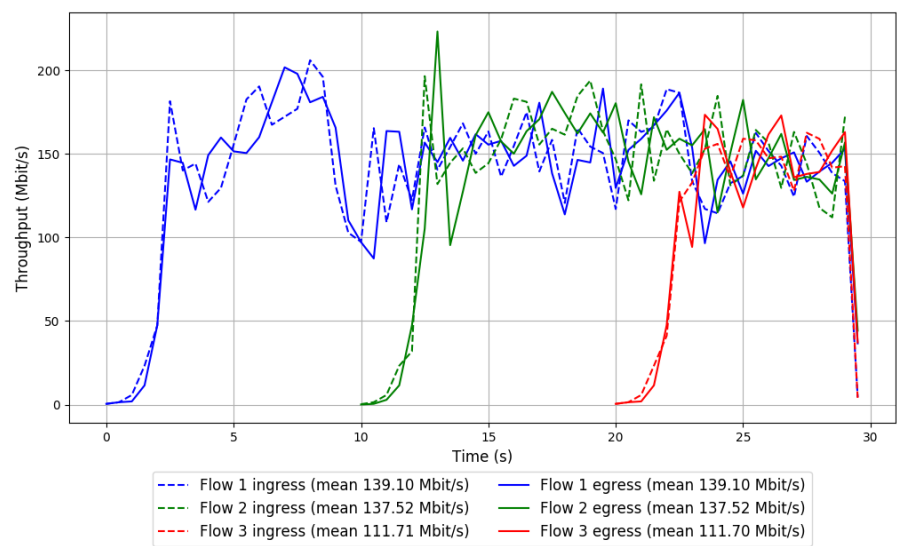
-- Flow 3:

Average throughput: 111.70 Mbit/s

95th percentile per-packet one-way delay: 147.212 ms

Loss rate: 0.02%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-27 03:17:55

End at: 2018-01-27 03:18:25

Below is generated by plot.py at 2018-01-27 06:33:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.33 Mbit/s

95th percentile per-packet one-way delay: 158.869 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 133.36 Mbit/s

95th percentile per-packet one-way delay: 154.241 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 128.49 Mbit/s

95th percentile per-packet one-way delay: 153.255 ms

Loss rate: 0.06%

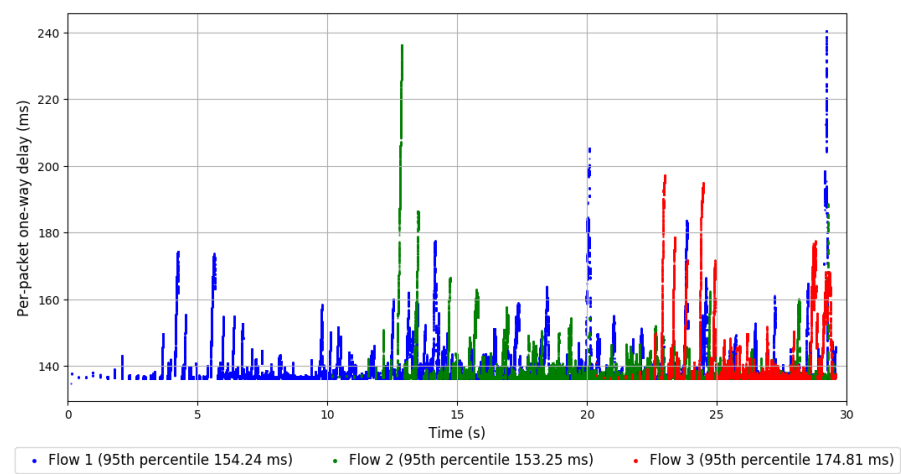
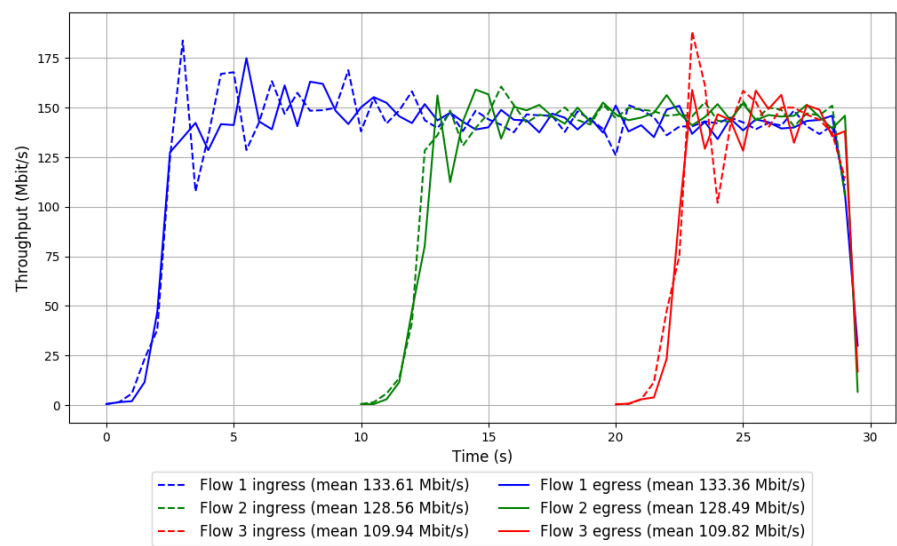
-- Flow 3:

Average throughput: 109.82 Mbit/s

95th percentile per-packet one-way delay: 174.814 ms

Loss rate: 0.12%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-27 03:33:49

End at: 2018-01-27 03:34:19

Below is generated by plot.py at 2018-01-27 06:33:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 260.74 Mbit/s

95th percentile per-packet one-way delay: 149.913 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 136.67 Mbit/s

95th percentile per-packet one-way delay: 145.702 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 133.14 Mbit/s

95th percentile per-packet one-way delay: 153.225 ms

Loss rate: 0.02%

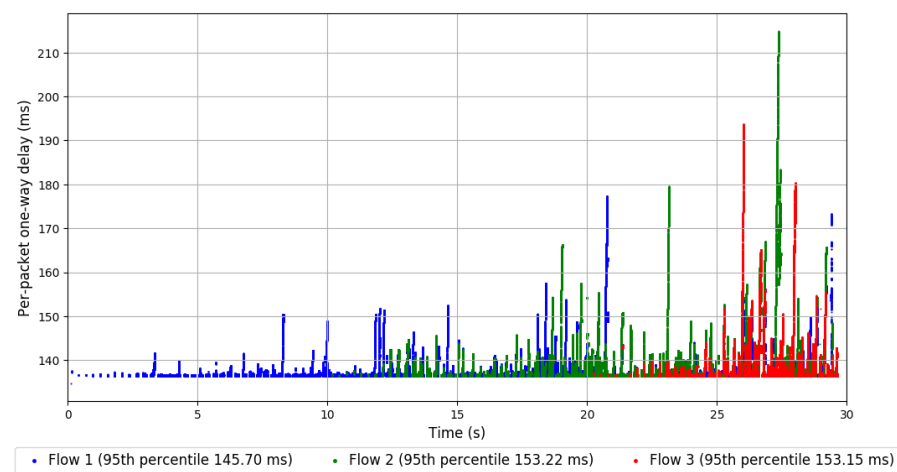
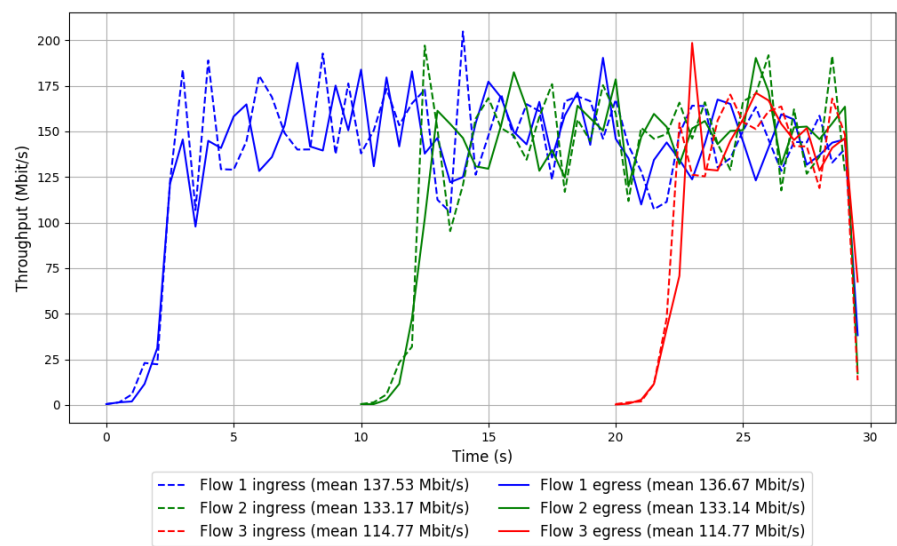
-- Flow 3:

Average throughput: 114.77 Mbit/s

95th percentile per-packet one-way delay: 153.148 ms

Loss rate: 0.01%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-27 03:50:02

End at: 2018-01-27 03:50:33

Below is generated by plot.py at 2018-01-27 06:33:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 259.06 Mbit/s

95th percentile per-packet one-way delay: 152.209 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 137.39 Mbit/s

95th percentile per-packet one-way delay: 154.003 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 130.25 Mbit/s

95th percentile per-packet one-way delay: 146.419 ms

Loss rate: 0.01%

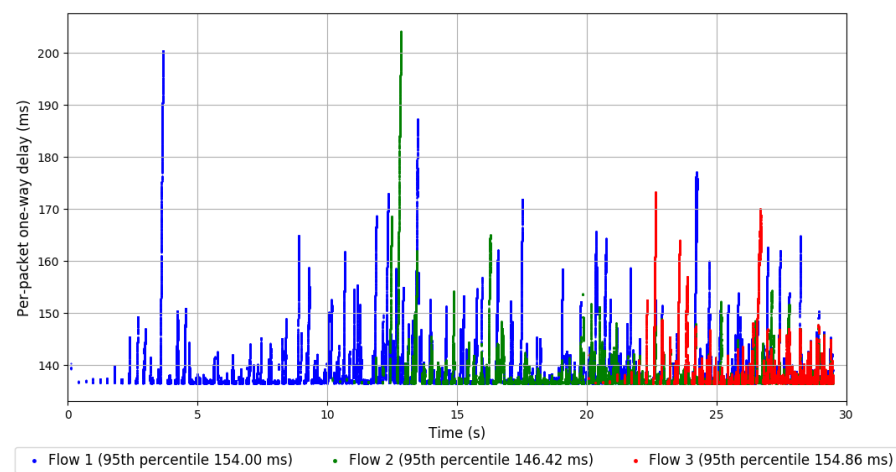
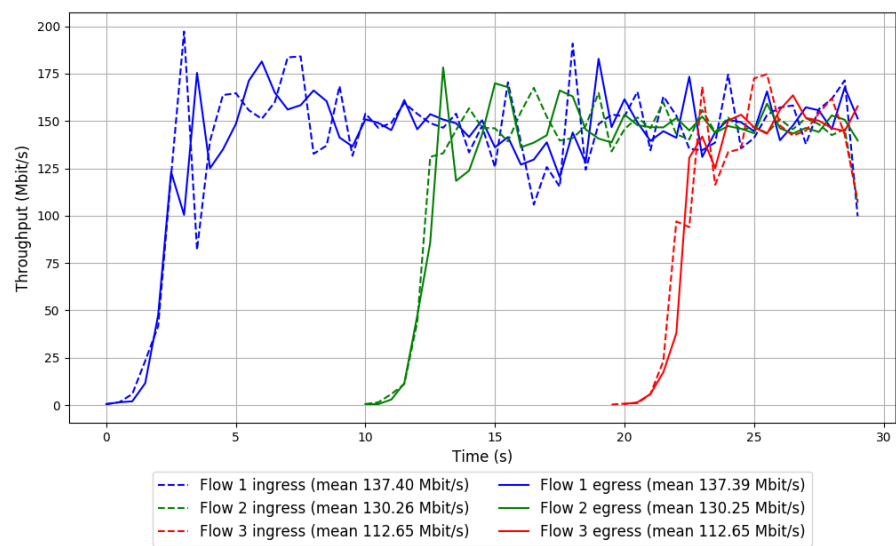
-- Flow 3:

Average throughput: 112.65 Mbit/s

95th percentile per-packet one-way delay: 154.861 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-27 04:06:17

End at: 2018-01-27 04:06:47

Below is generated by plot.py at 2018-01-27 06:33:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.84 Mbit/s

95th percentile per-packet one-way delay: 144.771 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 145.12 Mbit/s

95th percentile per-packet one-way delay: 145.494 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 125.95 Mbit/s

95th percentile per-packet one-way delay: 142.055 ms

Loss rate: 0.00%

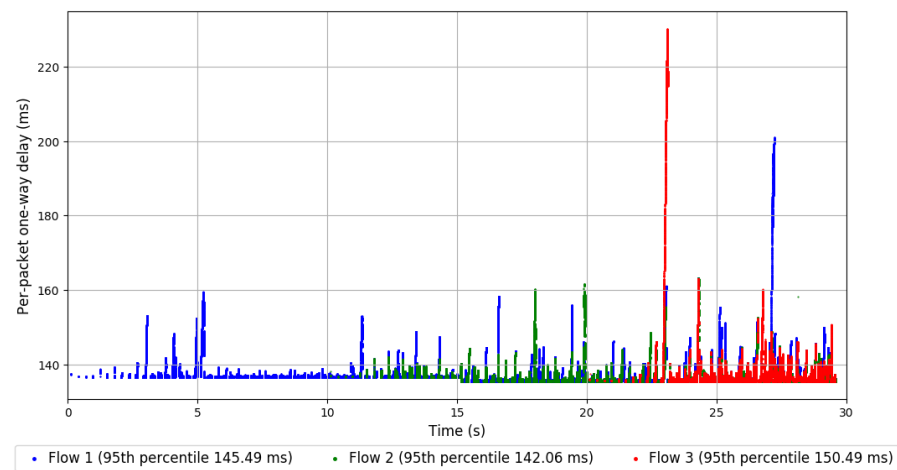
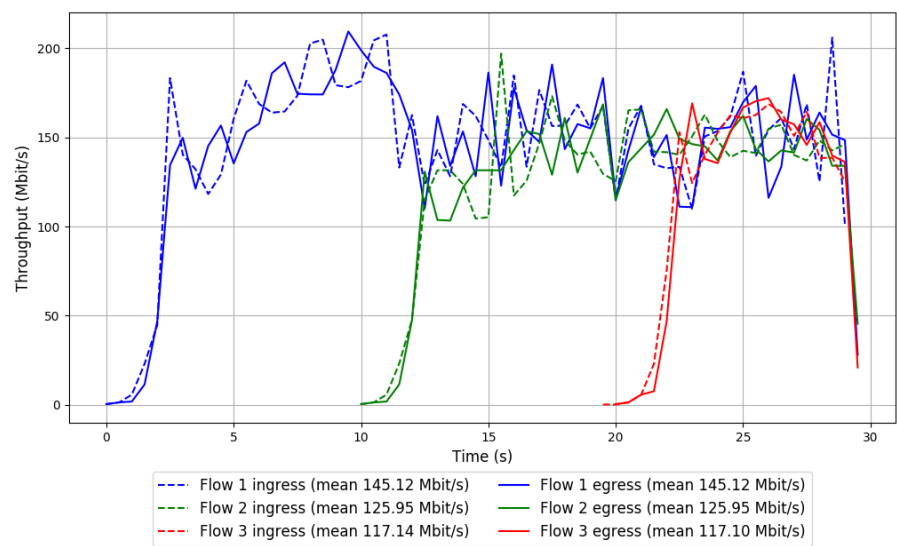
-- Flow 3:

Average throughput: 117.10 Mbit/s

95th percentile per-packet one-way delay: 150.494 ms

Loss rate: 0.02%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-27 04:22:21

End at: 2018-01-27 04:22:51

Below is generated by plot.py at 2018-01-27 06:33:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.77 Mbit/s

95th percentile per-packet one-way delay: 142.286 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 134.12 Mbit/s

95th percentile per-packet one-way delay: 140.377 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 126.56 Mbit/s

95th percentile per-packet one-way delay: 142.507 ms

Loss rate: 0.02%

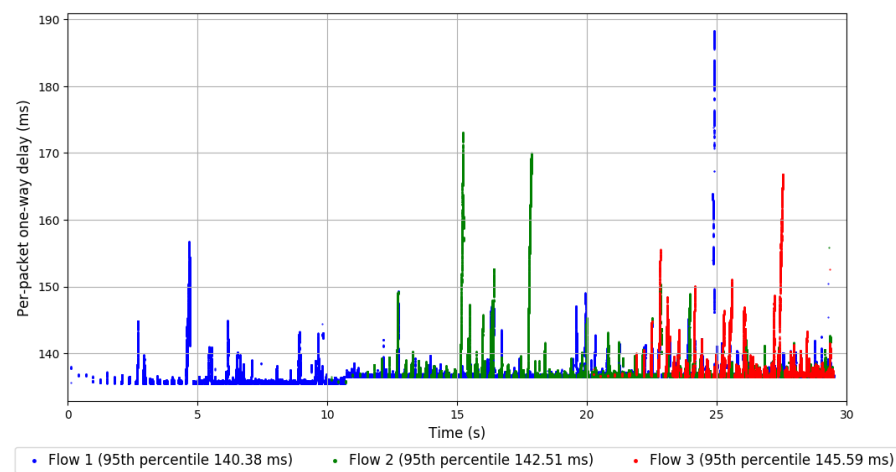
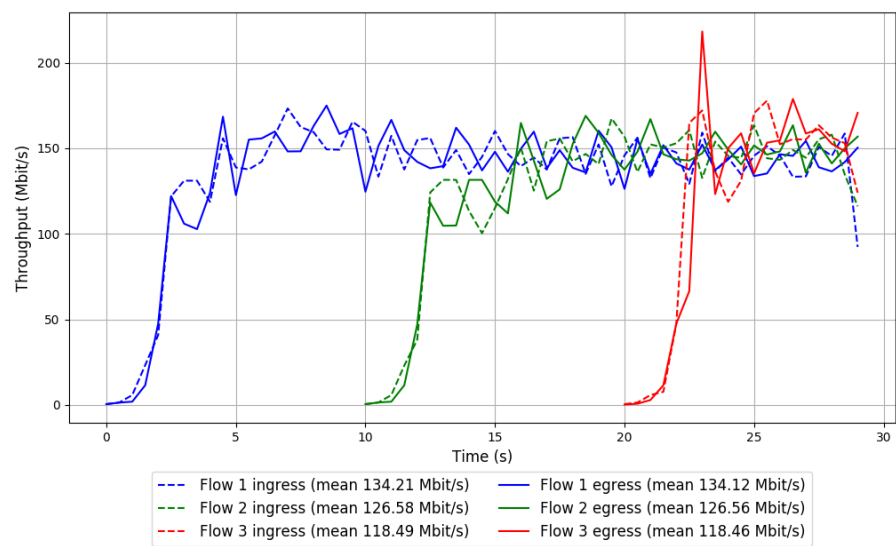
-- Flow 3:

Average throughput: 118.46 Mbit/s

95th percentile per-packet one-way delay: 145.586 ms

Loss rate: 0.03%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-27 04:38:46

End at: 2018-01-27 04:39:16

Below is generated by plot.py at 2018-01-27 06:33:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 255.06 Mbit/s

95th percentile per-packet one-way delay: 143.614 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 131.52 Mbit/s

95th percentile per-packet one-way delay: 144.031 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 130.24 Mbit/s

95th percentile per-packet one-way delay: 143.229 ms

Loss rate: 0.01%

-- Flow 3:

Average throughput: 117.76 Mbit/s

95th percentile per-packet one-way delay: 143.403 ms

Loss rate: 0.00%

Run 10: Report of Indigo-1-128 — Data Link

