

Pantheon Report

Generated at 2018-01-27 05:46:27 (UTC).

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

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.

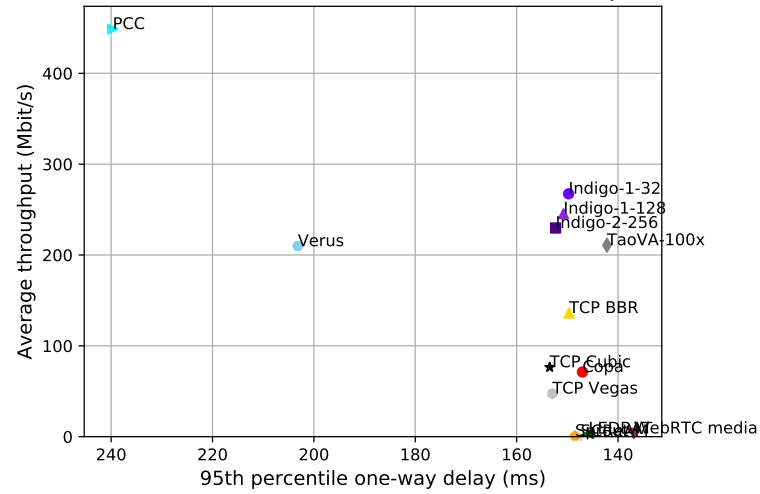
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

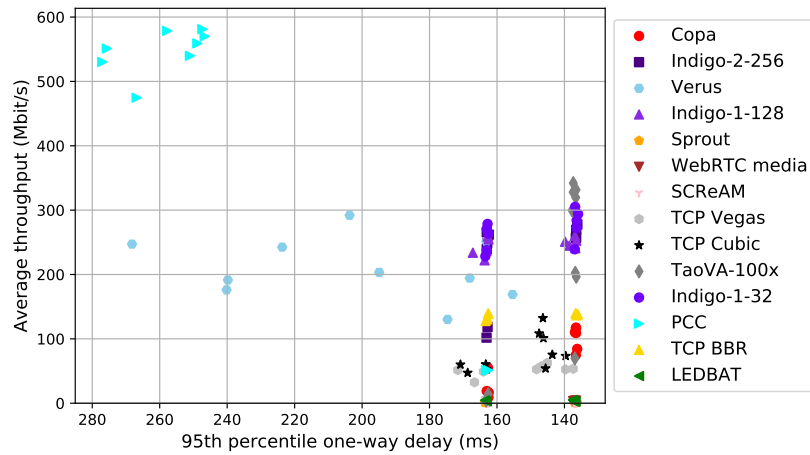
Git summary:

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



test from GCE London Ethernet to GCE Sydney 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	70.67	68.70	61.39	149.63	147.00	147.04	1.05	1.71	3.62
TCP Cubic	10	35.17	42.01	41.93	152.62	148.67	151.58	1.61	2.37	4.52
LEDBAT	6	2.20	1.26	0.95	145.86	145.68	141.35	1.74	2.88	4.41
PCC	10	377.15	80.63	56.70	239.57	239.75	229.39	2.94	3.31	5.12
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	0.21	136.75	139.15	144.59	0.85	1.39	2.68
WebRTC media	6	2.04	1.23	0.40	136.82	136.77	136.75	1.07	1.95	5.76
Sprout	9	0.42	0.34	0.44	225.93	145.40	148.48	0.73	1.14	2.04
TaoVA-100x	10	118.01	108.00	87.81	142.07	142.33	144.42	0.80	1.17	5.17
TCP Vegas	10	16.28	37.54	19.56	150.74	153.21	150.53	1.26	1.17	4.32
Verus	10	133.55	84.72	64.30	201.31	196.03	223.27	1.45	2.59	5.63
Copa	10	45.06	29.64	26.46	144.44	147.11	146.96	0.72	1.09	7.29
Indigo-2-256	10	125.90	106.69	104.30	152.28	147.30	142.47	0.99	1.85	3.89
Indigo-1-32	10	139.29	137.56	115.88	149.67	147.15	147.41	0.96	1.43	3.37
Indigo-1-128	10	128.37	125.81	105.89	150.53	145.76	144.38	1.03	1.51	3.81

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 23:33:23

End at: 2018-01-26 23:33:53

Below is generated by plot.py at 2018-01-27 05:03:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.01 Mbit/s

95th percentile per-packet one-way delay: 136.008 ms

Loss rate: 2.01%

-- Flow 1:

Average throughput: 70.07 Mbit/s

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

Loss rate: 1.64%

-- Flow 2:

Average throughput: 71.10 Mbit/s

95th percentile per-packet one-way delay: 136.023 ms

Loss rate: 1.96%

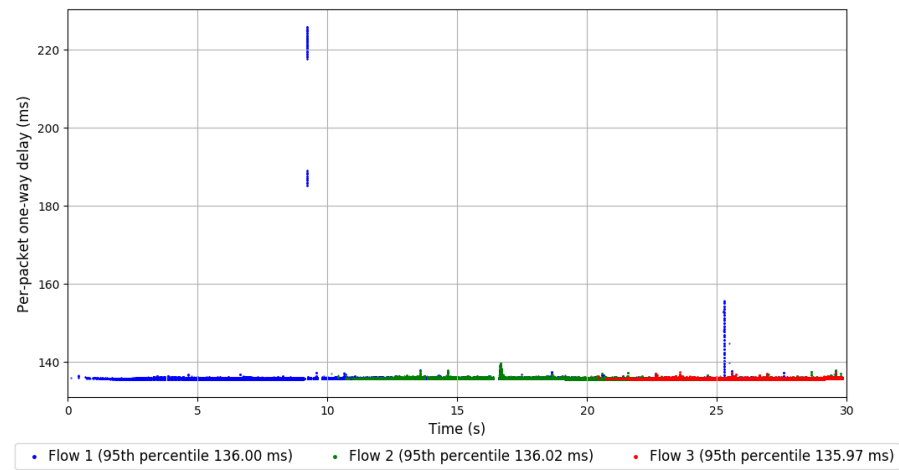
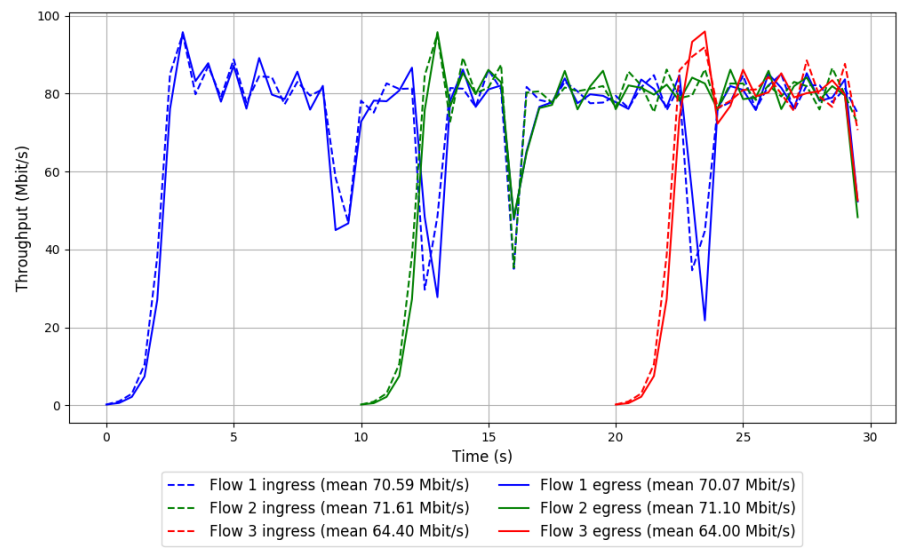
-- Flow 3:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 135.974 ms

Loss rate: 3.38%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 23:49:44

End at: 2018-01-26 23:50:14

Below is generated by plot.py at 2018-01-27 05:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.14 Mbit/s

95th percentile per-packet one-way delay: 162.496 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 72.69 Mbit/s

95th percentile per-packet one-way delay: 162.417 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 69.56 Mbit/s

95th percentile per-packet one-way delay: 162.504 ms

Loss rate: 1.54%

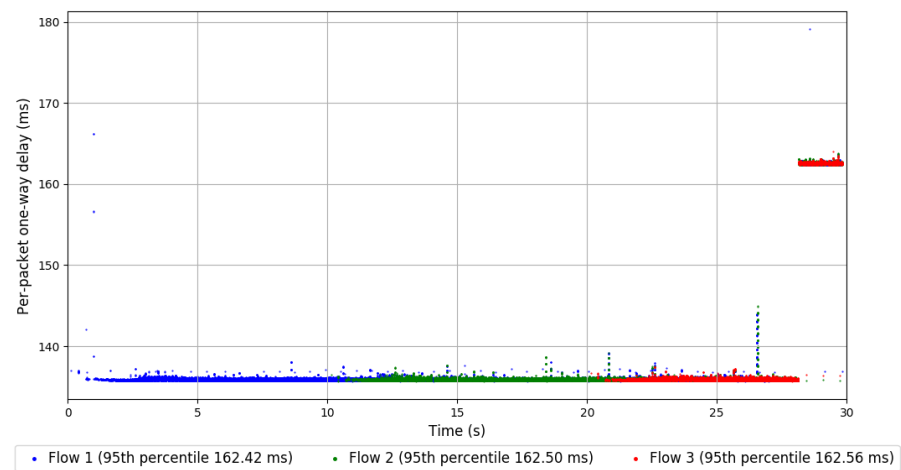
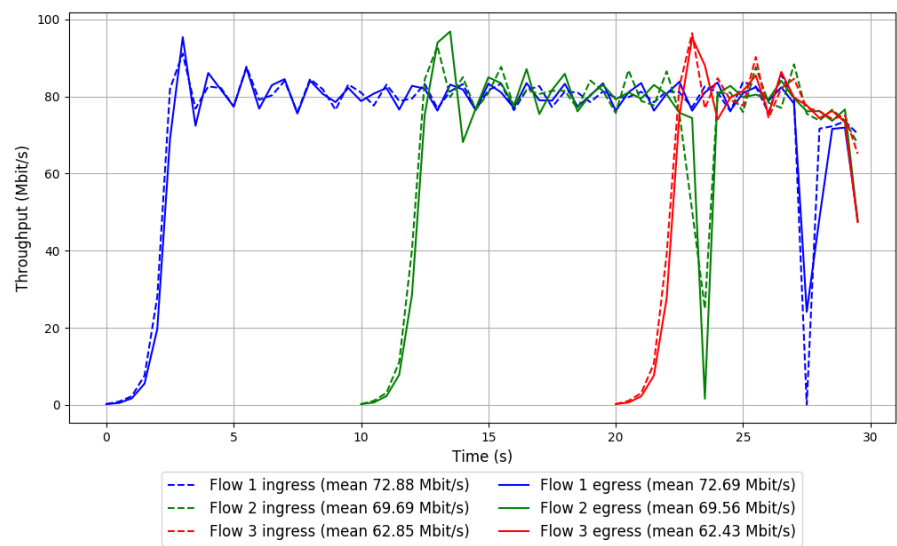
-- Flow 3:

Average throughput: 62.43 Mbit/s

95th percentile per-packet one-way delay: 162.563 ms

Loss rate: 3.41%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-27 00:05:21

End at: 2018-01-27 00:05:51

Below is generated by plot.py at 2018-01-27 05:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.46 Mbit/s

95th percentile per-packet one-way delay: 162.668 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 70.56 Mbit/s

95th percentile per-packet one-way delay: 162.740 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 72.57 Mbit/s

95th percentile per-packet one-way delay: 136.088 ms

Loss rate: 1.49%

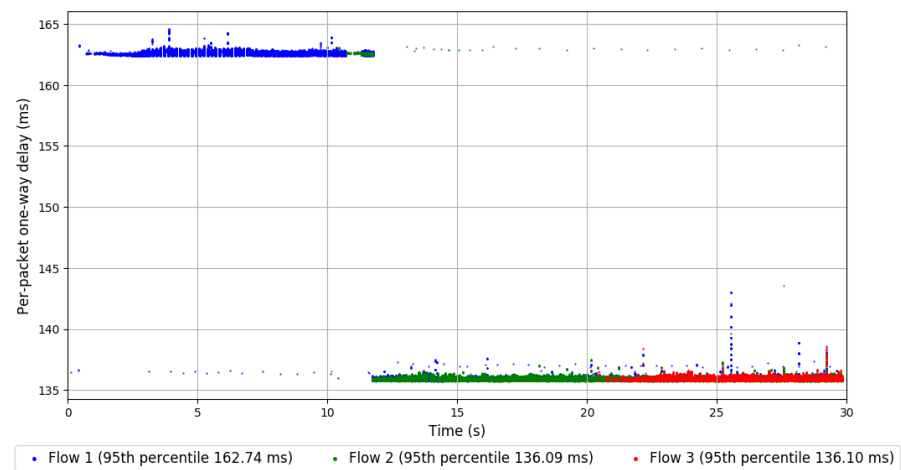
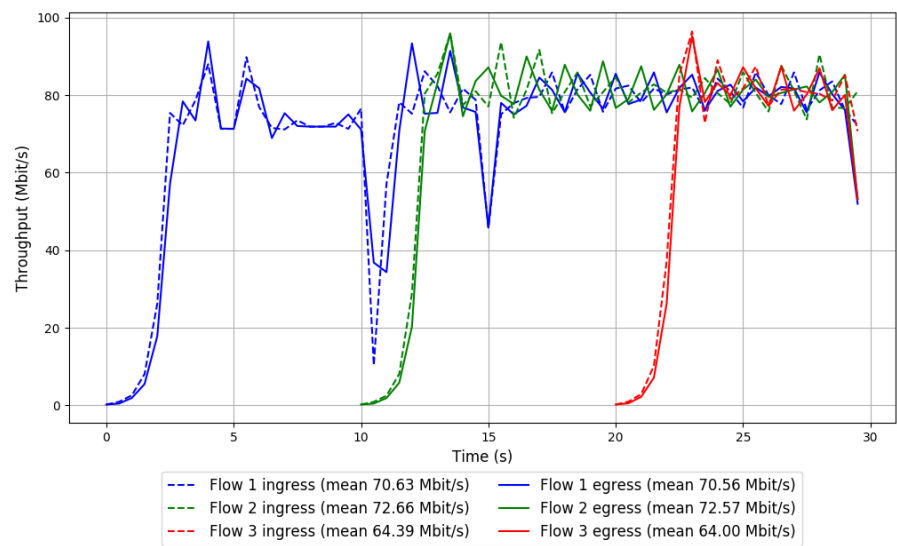
-- Flow 3:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 136.104 ms

Loss rate: 3.35%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-27 00:21:14

End at: 2018-01-27 00:21:44

Below is generated by plot.py at 2018-01-27 05:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.55 Mbit/s

95th percentile per-packet one-way delay: 136.439 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 136.412 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 68.54 Mbit/s

95th percentile per-packet one-way delay: 136.437 ms

Loss rate: 1.77%

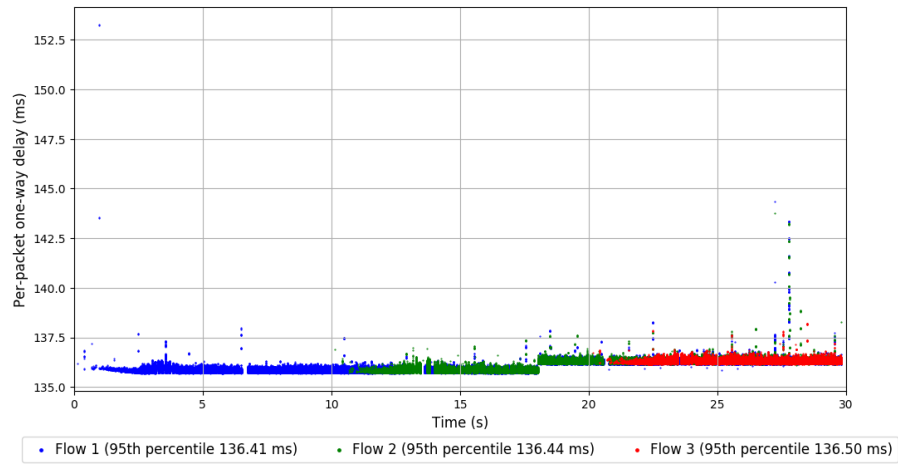
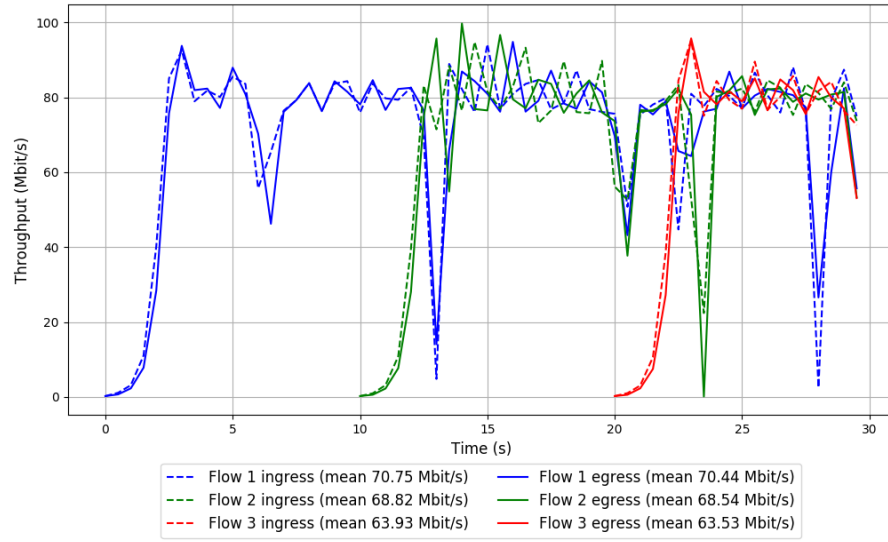
-- Flow 3:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 136.495 ms

Loss rate: 3.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-27 00:37:41

End at: 2018-01-27 00:38:11

Below is generated by plot.py at 2018-01-27 05:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.96 Mbit/s

95th percentile per-packet one-way delay: 136.496 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 71.93 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 70.59 Mbit/s

95th percentile per-packet one-way delay: 136.526 ms

Loss rate: 1.60%

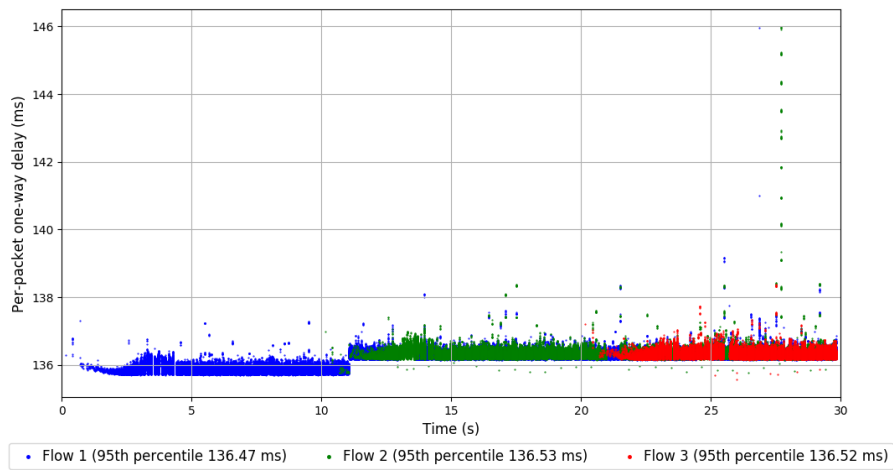
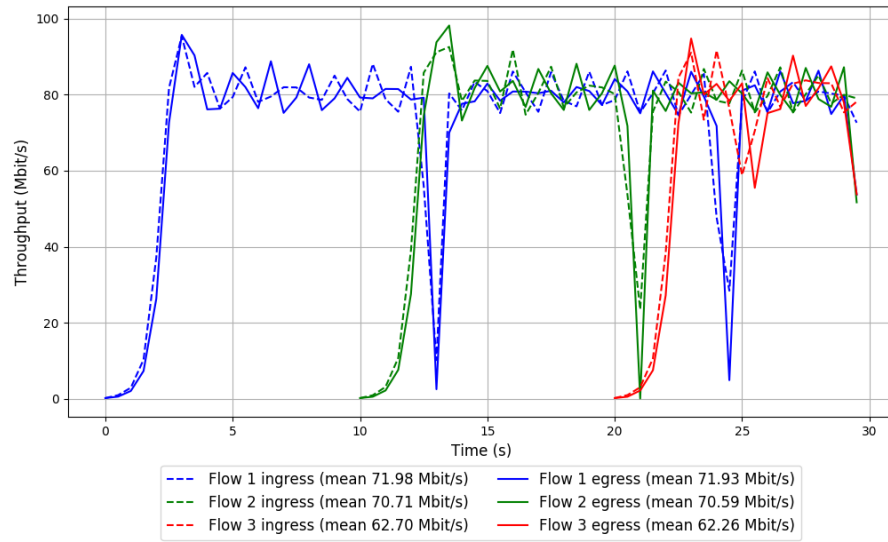
-- Flow 3:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 136.517 ms

Loss rate: 3.44%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-27 00:54:22

End at: 2018-01-27 00:54:52

Below is generated by plot.py at 2018-01-27 05:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.90 Mbit/s

95th percentile per-packet one-way delay: 136.557 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 71.90 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 70.06 Mbit/s

95th percentile per-packet one-way delay: 136.556 ms

Loss rate: 1.71%

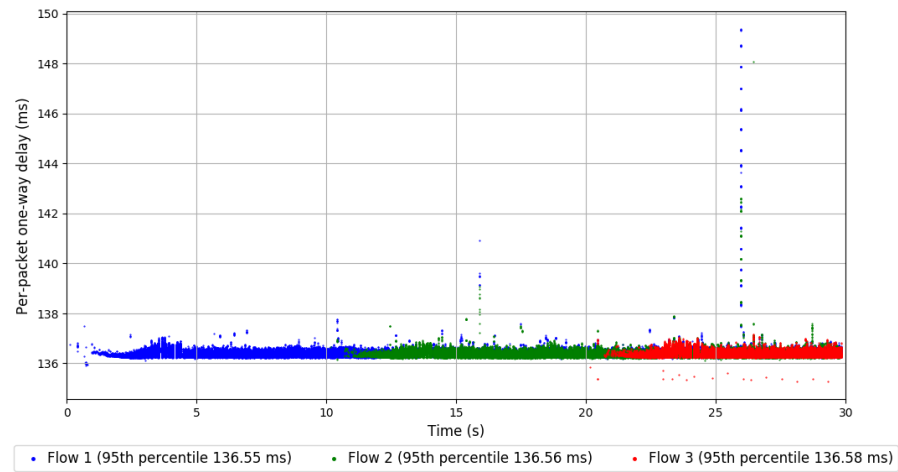
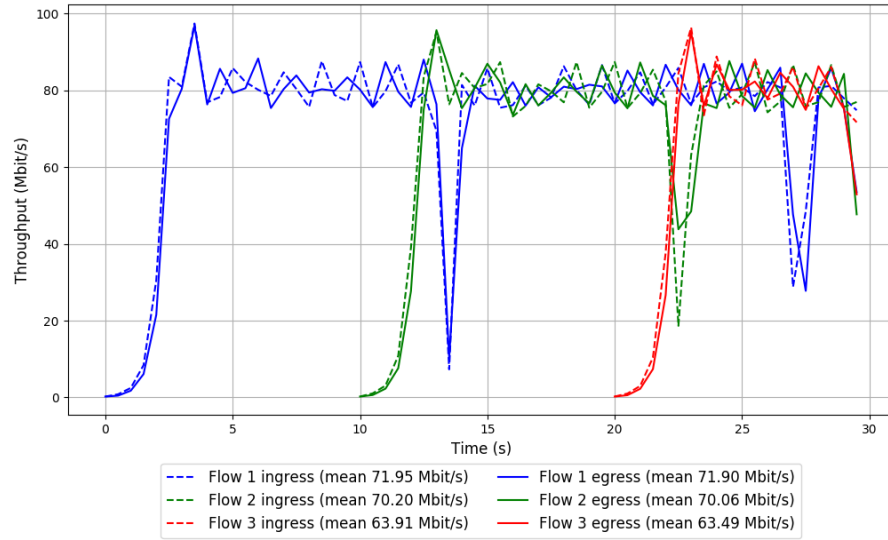
-- Flow 3:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 136.580 ms

Loss rate: 3.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-27 01:10:43

End at: 2018-01-27 01:11:13

Below is generated by plot.py at 2018-01-27 05:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 139.61 Mbit/s

95th percentile per-packet one-way delay: 136.715 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 73.01 Mbit/s

95th percentile per-packet one-way delay: 136.693 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 69.46 Mbit/s

95th percentile per-packet one-way delay: 136.680 ms

Loss rate: 1.60%

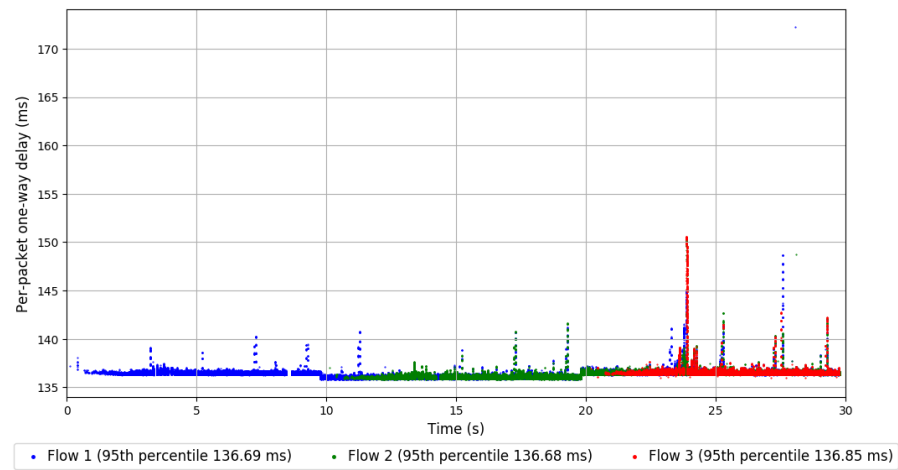
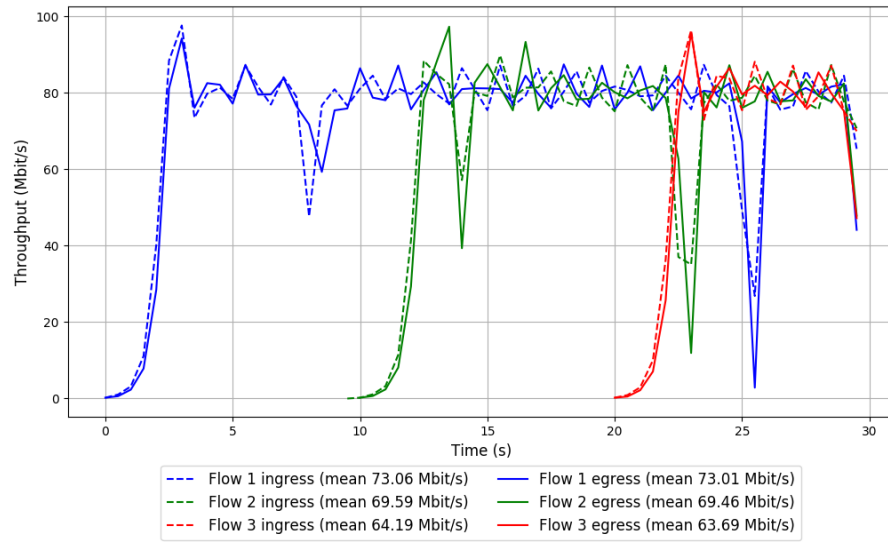
-- Flow 3:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 136.854 ms

Loss rate: 3.77%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-27 01:26:29

End at: 2018-01-27 01:26:59

Below is generated by plot.py at 2018-01-27 05:03:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.59 Mbit/s

95th percentile per-packet one-way delay: 162.908 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 162.860 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 67.87 Mbit/s

95th percentile per-packet one-way delay: 162.898 ms

Loss rate: 1.58%

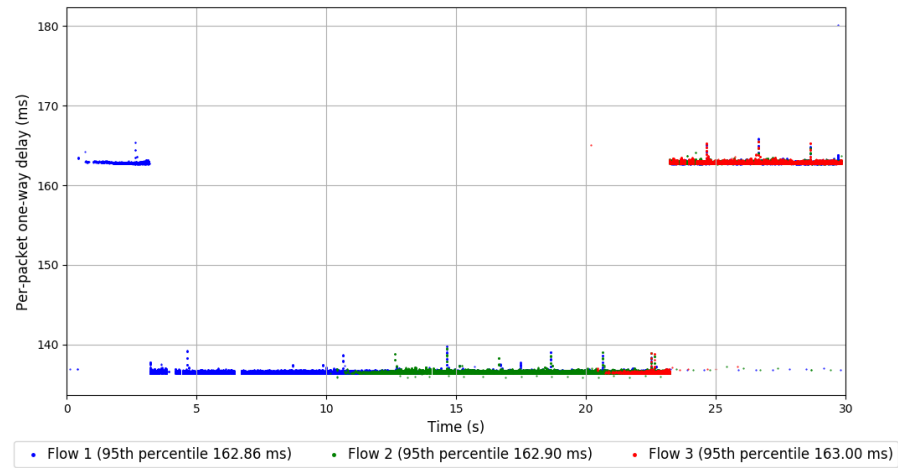
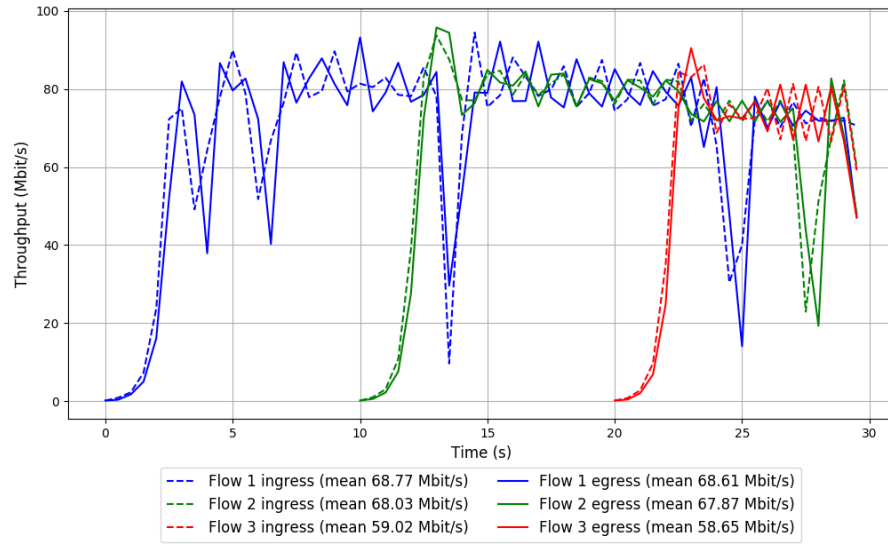
-- Flow 3:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 163.003 ms

Loss rate: 3.65%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

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

End at: 2018-01-27 01:43:15

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.20 Mbit/s

95th percentile per-packet one-way delay: 162.887 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 68.96 Mbit/s

95th percentile per-packet one-way delay: 162.860 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 64.95 Mbit/s

95th percentile per-packet one-way delay: 162.890 ms

Loss rate: 1.92%

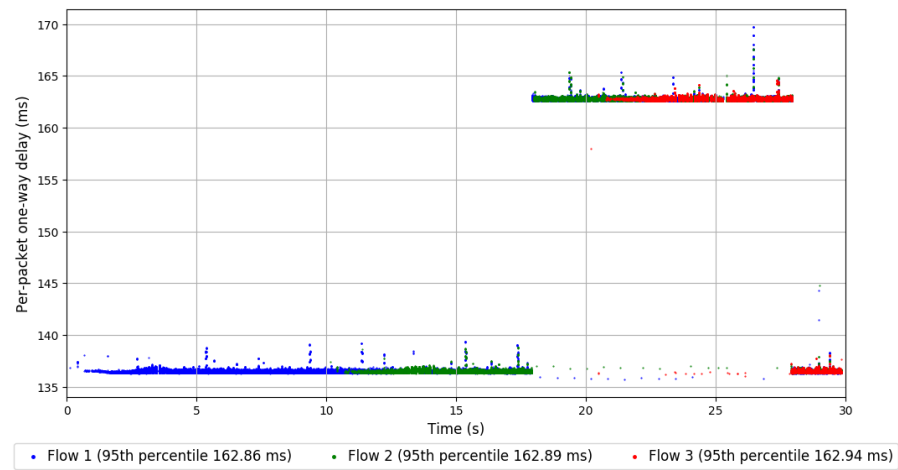
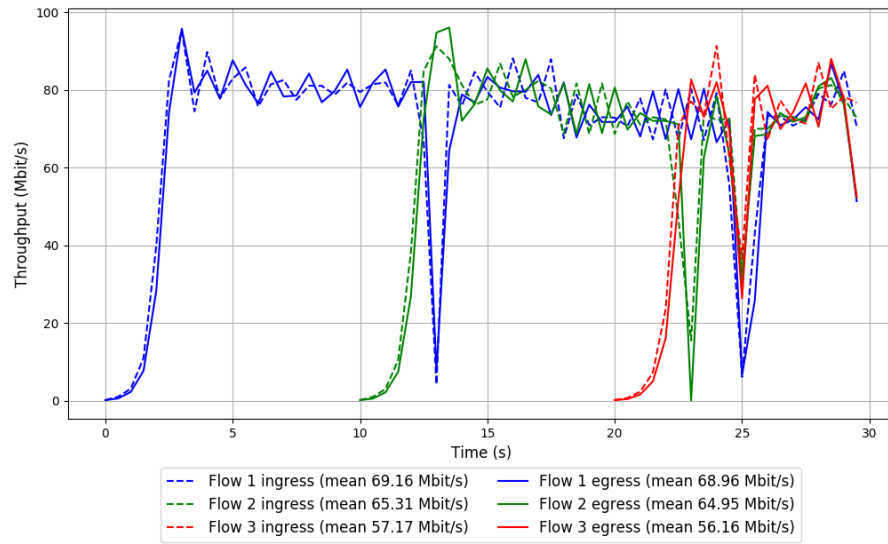
-- Flow 3:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 162.942 ms

Loss rate: 4.67%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-27 01:58:12

End at: 2018-01-27 01:58:42

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 127.74 Mbit/s

95th percentile per-packet one-way delay: 163.372 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 68.49 Mbit/s

95th percentile per-packet one-way delay: 163.314 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 62.25 Mbit/s

95th percentile per-packet one-way delay: 163.434 ms

Loss rate: 1.92%

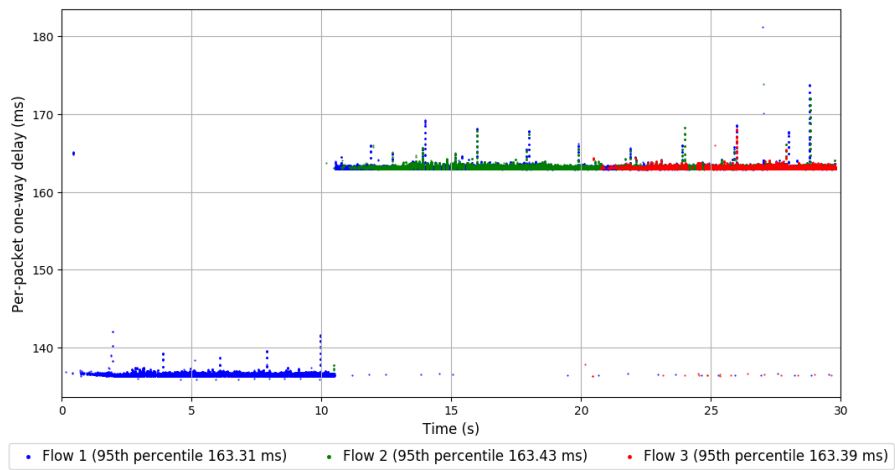
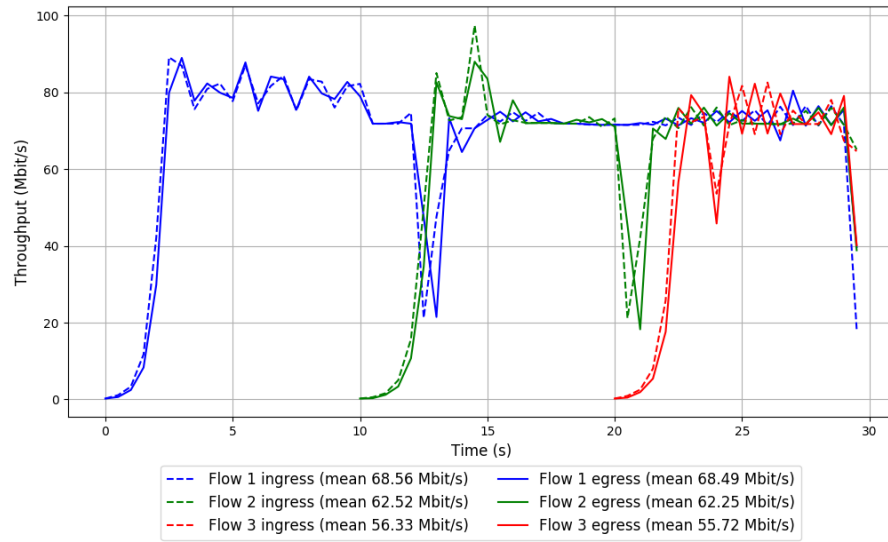
-- Flow 3:

Average throughput: 55.72 Mbit/s

95th percentile per-packet one-way delay: 163.386 ms

Loss rate: 3.84%

Run 10: Report of TCP BBR — Data Link

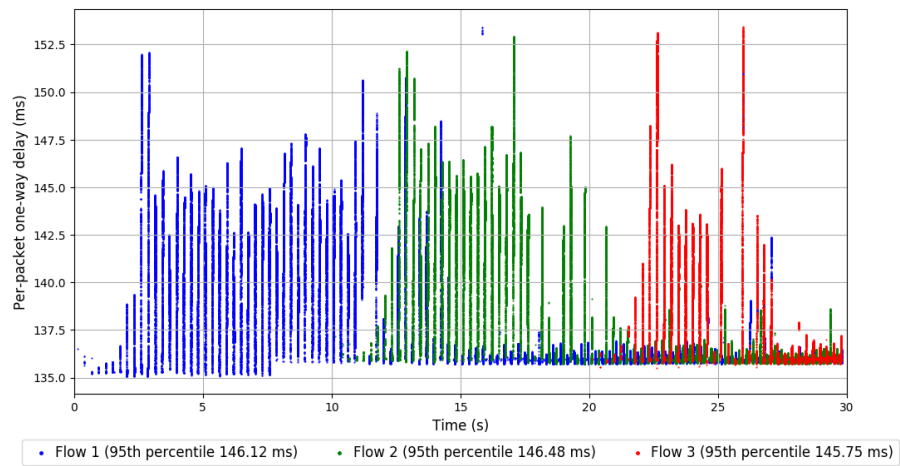
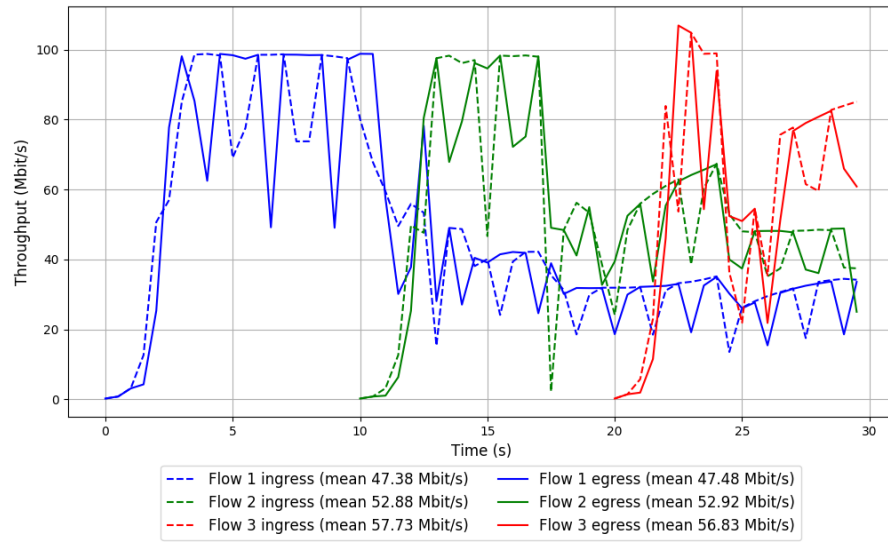


```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 23:42:35
End at: 2018-01-26 23:43:05

# Below is generated by plot.py at 2018-01-27 05:05:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.04 Mbit/s
95th percentile per-packet one-way delay: 146.225 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 47.48 Mbit/s
95th percentile per-packet one-way delay: 146.125 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 146.484 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: 145.745 ms
Loss rate: 4.11%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 23:58:21

End at: 2018-01-26 23:58:51

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.25 Mbit/s

95th percentile per-packet one-way delay: 168.697 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 23.61 Mbit/s

95th percentile per-packet one-way delay: 169.100 ms

Loss rate: 1.95%

-- Flow 2:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 167.941 ms

Loss rate: 1.62%

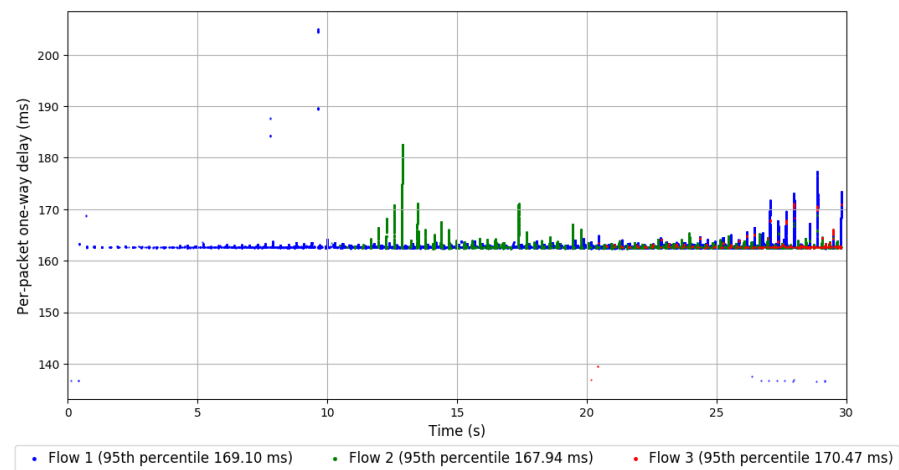
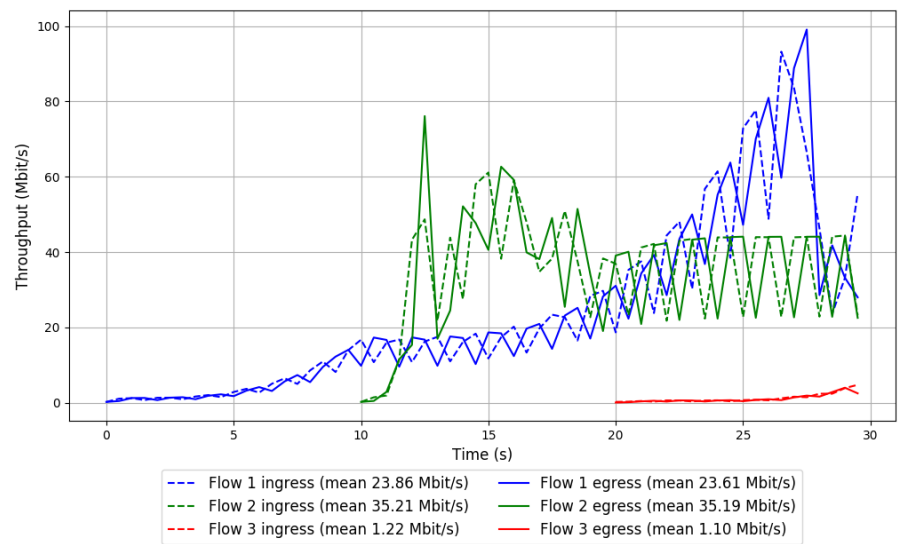
-- Flow 3:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 170.475 ms

Loss rate: 12.36%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-27 00:13:59

End at: 2018-01-27 00:14:29

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.03 Mbit/s

95th percentile per-packet one-way delay: 170.830 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 41.03 Mbit/s

95th percentile per-packet one-way delay: 171.240 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 9.88 Mbit/s

95th percentile per-packet one-way delay: 163.949 ms

Loss rate: 6.25%

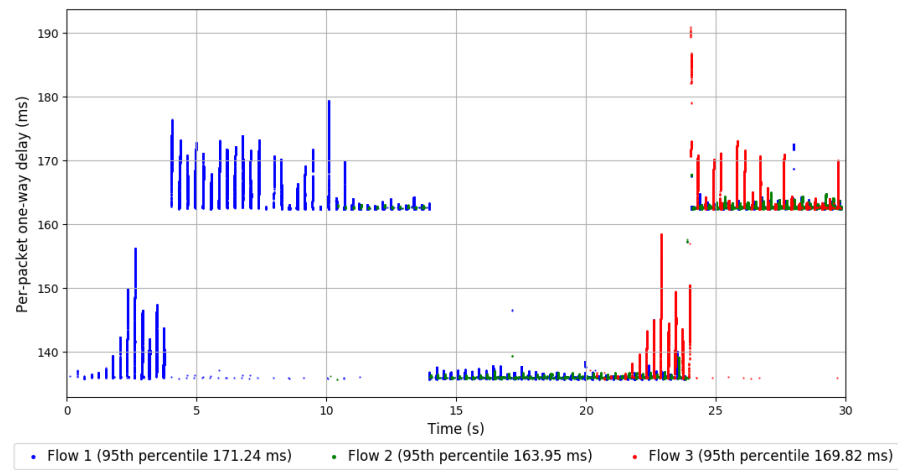
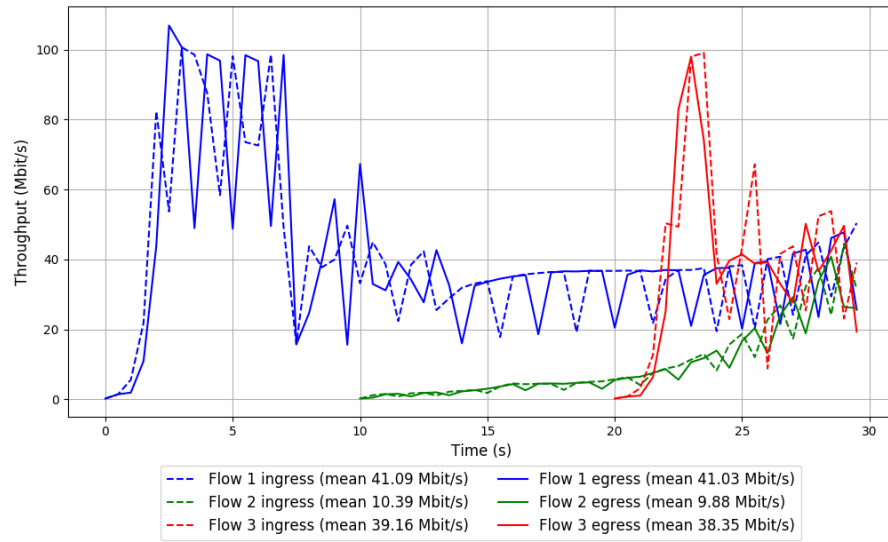
-- Flow 3:

Average throughput: 38.35 Mbit/s

95th percentile per-packet one-way delay: 169.818 ms

Loss rate: 4.76%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-27 00:30:24

End at: 2018-01-27 00:30:54

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 143.589 ms

Loss rate: 2.10%

-- Flow 1:

Average throughput: 41.04 Mbit/s

95th percentile per-packet one-way delay: 142.642 ms

Loss rate: 2.09%

-- Flow 2:

Average throughput: 35.43 Mbit/s

95th percentile per-packet one-way delay: 143.946 ms

Loss rate: 1.05%

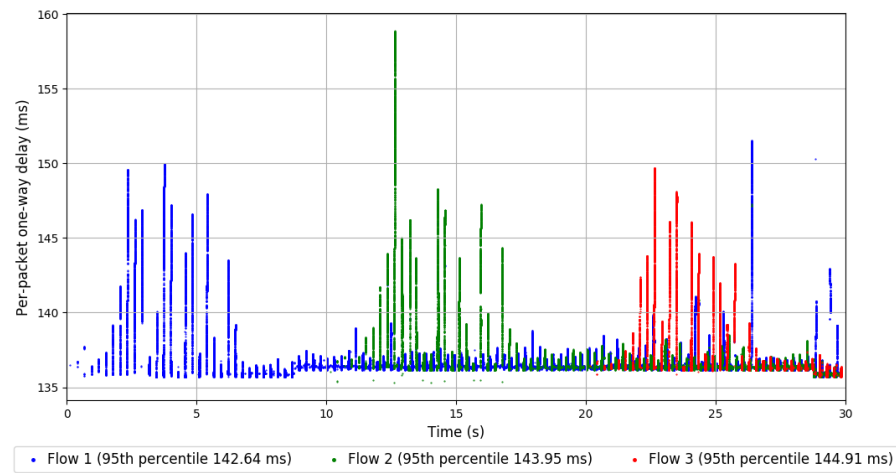
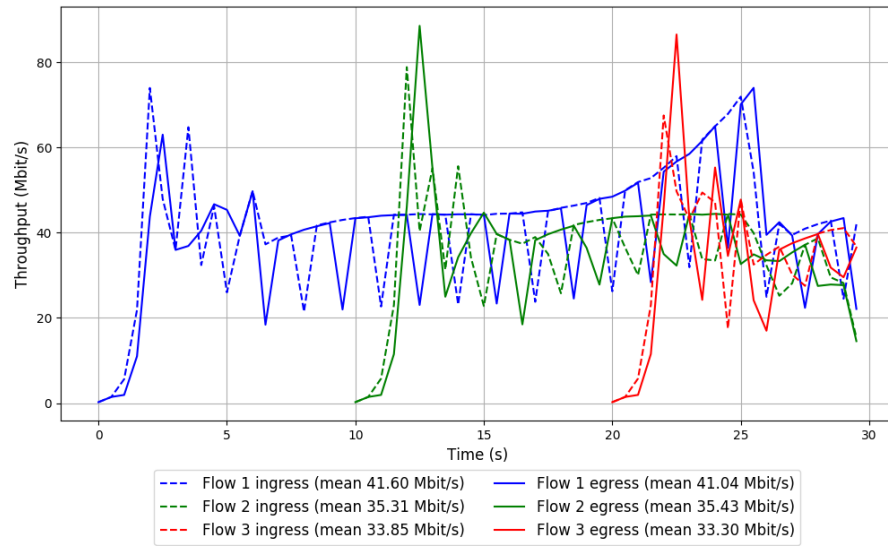
-- Flow 3:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 144.906 ms

Loss rate: 4.33%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-27 00:46:59

End at: 2018-01-27 00:47:29

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.32 Mbit/s

95th percentile per-packet one-way delay: 147.507 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 48.61 Mbit/s

95th percentile per-packet one-way delay: 147.291 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 78.69 Mbit/s

95th percentile per-packet one-way delay: 146.554 ms

Loss rate: 0.43%

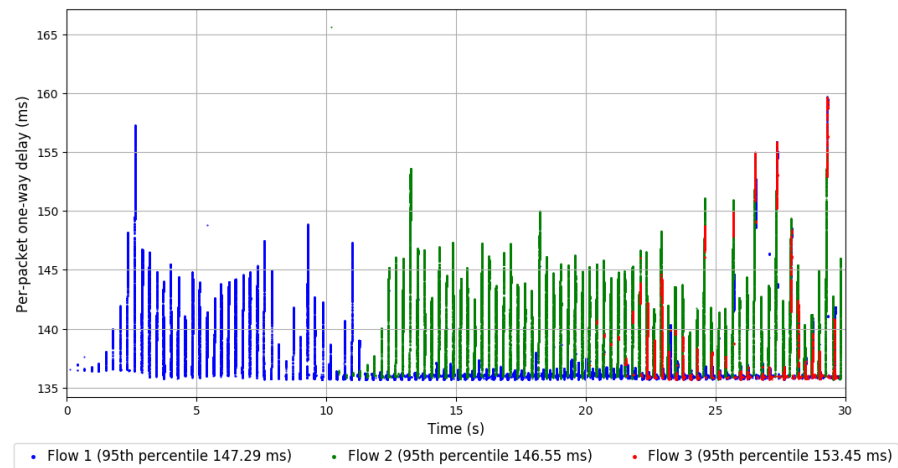
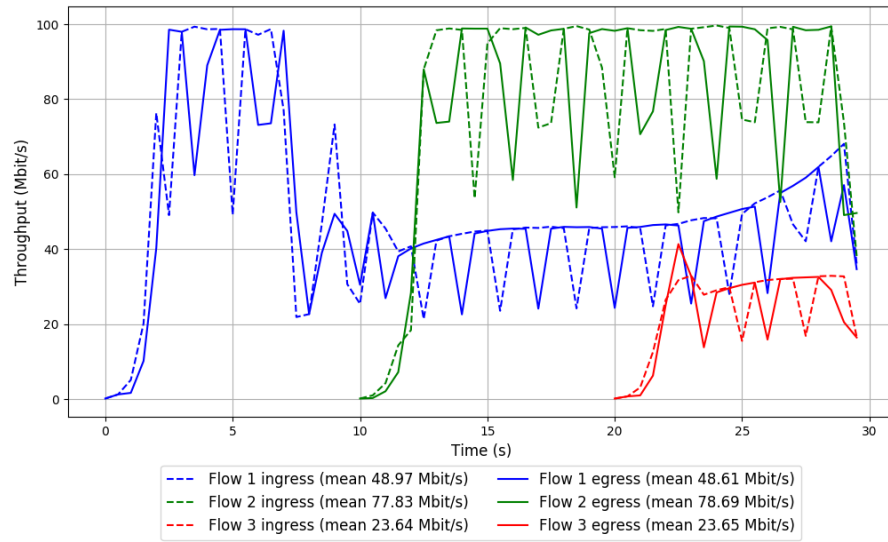
-- Flow 3:

Average throughput: 23.65 Mbit/s

95th percentile per-packet one-way delay: 153.454 ms

Loss rate: 3.55%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

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

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

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 145.595 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 11.75 Mbit/s

95th percentile per-packet one-way delay: 137.620 ms

Loss rate: 2.82%

-- Flow 2:

Average throughput: 37.26 Mbit/s

95th percentile per-packet one-way delay: 143.921 ms

Loss rate: 3.14%

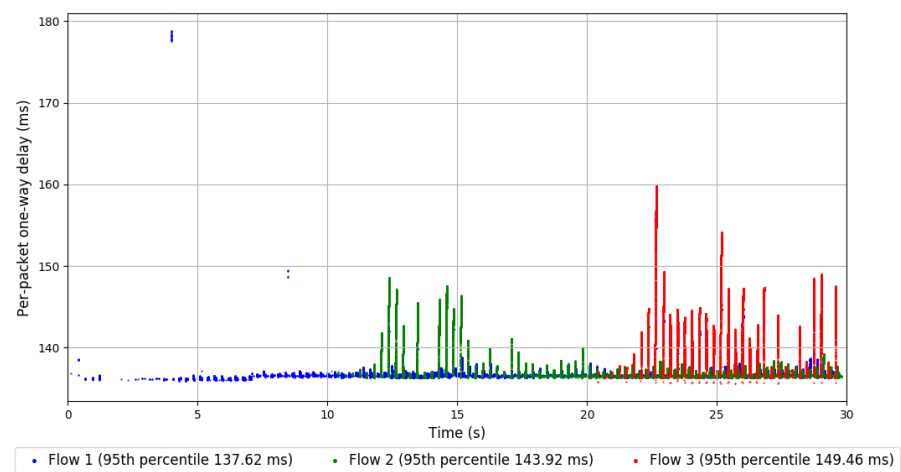
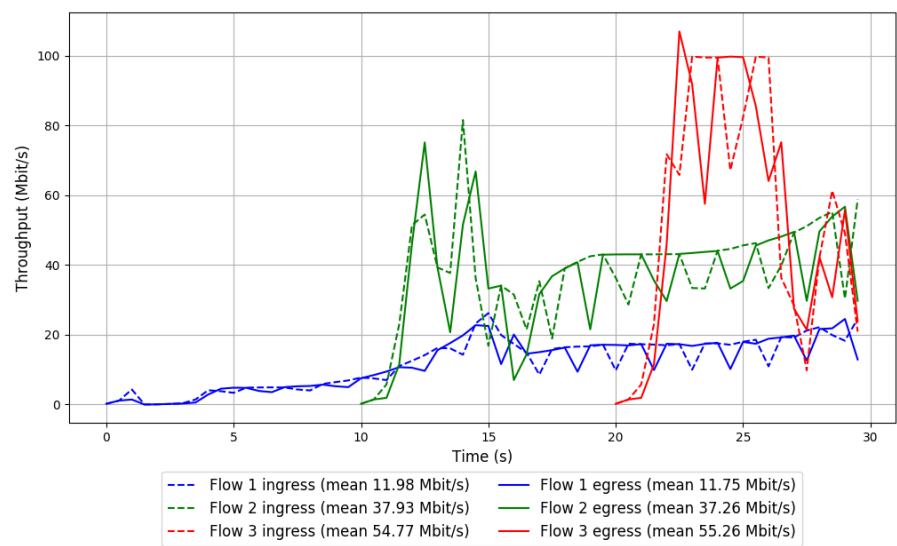
-- Flow 3:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 149.455 ms

Loss rate: 1.97%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-27 01:19:26

End at: 2018-01-27 01:19:56

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.44 Mbit/s

95th percentile per-packet one-way delay: 139.639 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 31.06 Mbit/s

95th percentile per-packet one-way delay: 138.342 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 48.55 Mbit/s

95th percentile per-packet one-way delay: 139.496 ms

Loss rate: 1.58%

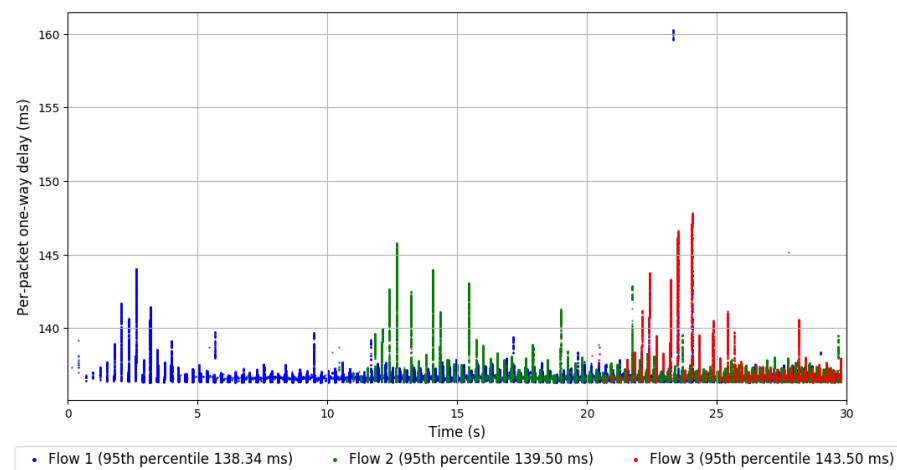
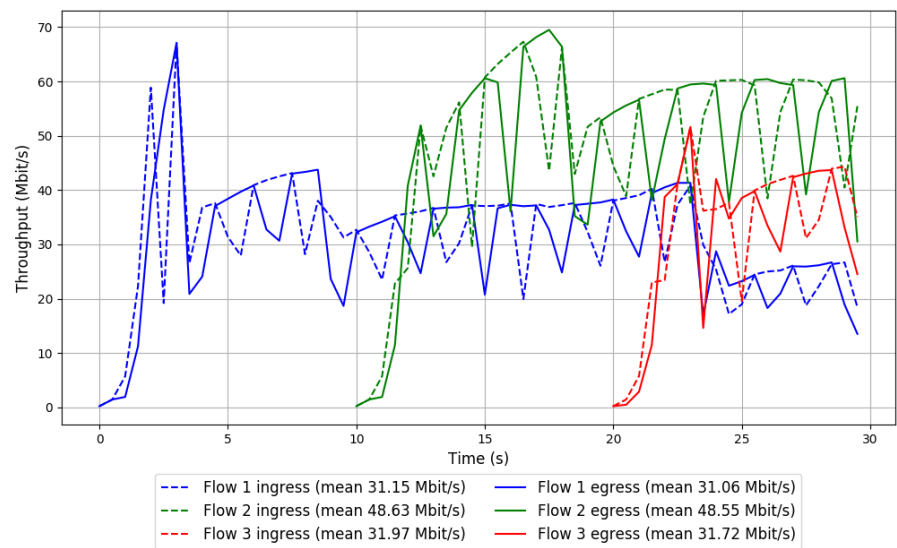
-- Flow 3:

Average throughput: 31.72 Mbit/s

95th percentile per-packet one-way delay: 143.495 ms

Loss rate: 3.53%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-27 01:35:38

End at: 2018-01-27 01:36:08

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 163.055 ms

Loss rate: 3.26%

-- Flow 1:

Average throughput: 22.13 Mbit/s

95th percentile per-packet one-way delay: 163.308 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 27.60 Mbit/s

95th percentile per-packet one-way delay: 142.348 ms

Loss rate: 3.93%

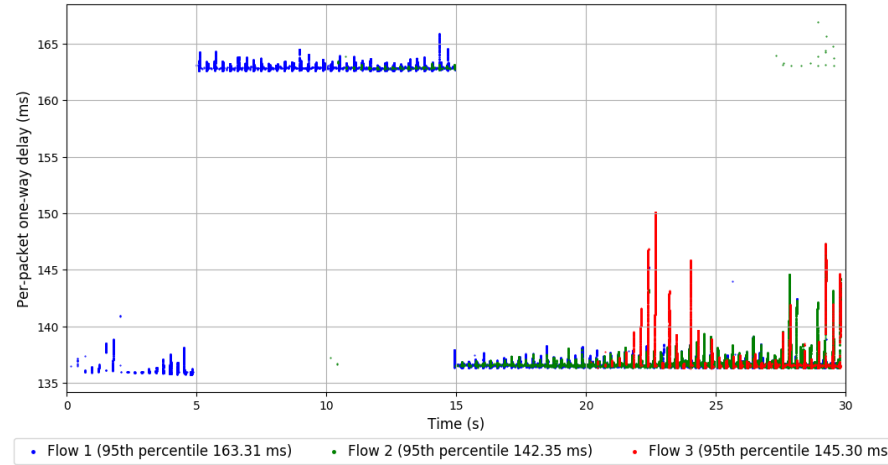
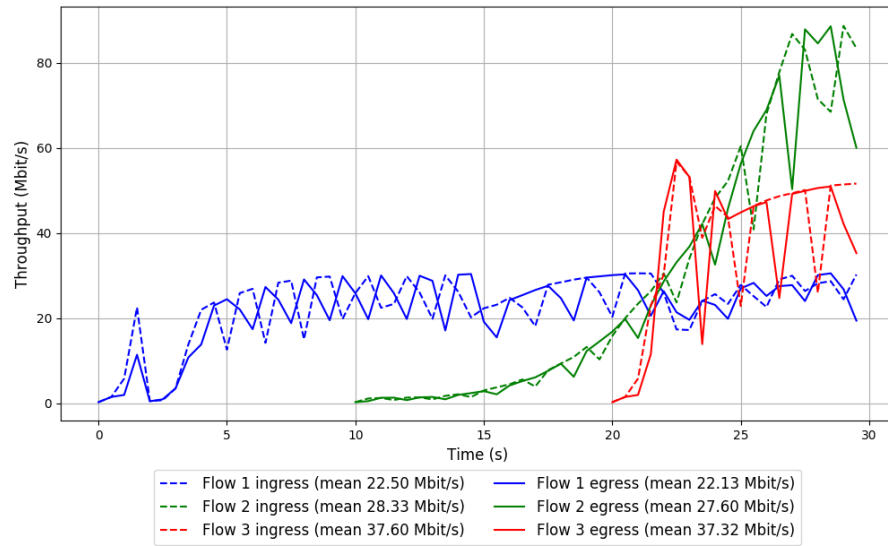
-- Flow 3:

Average throughput: 37.32 Mbit/s

95th percentile per-packet one-way delay: 145.299 ms

Loss rate: 3.49%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-27 01:51:08

End at: 2018-01-27 01:51:38

Below is generated by plot.py at 2018-01-27 05:05:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 163.330 ms

Loss rate: 2.42%

-- Flow 1:

Average throughput: 28.03 Mbit/s

95th percentile per-packet one-way delay: 163.851 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 14.56 Mbit/s

95th percentile per-packet one-way delay: 145.790 ms

Loss rate: 2.83%

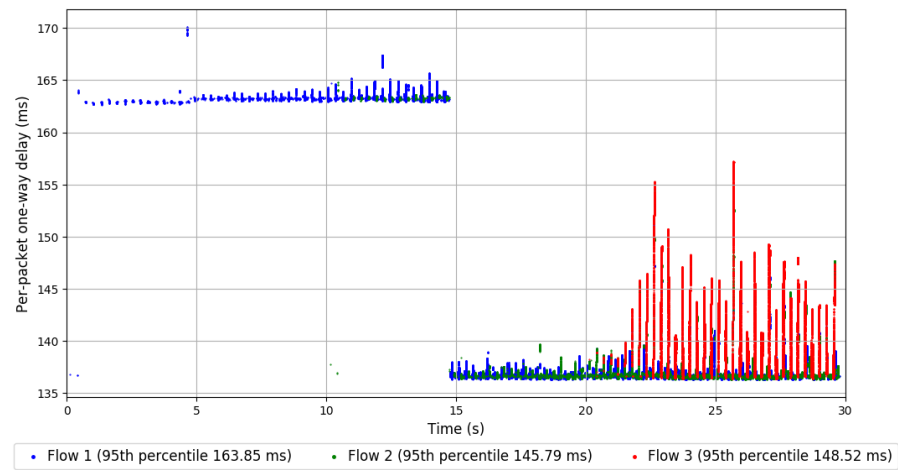
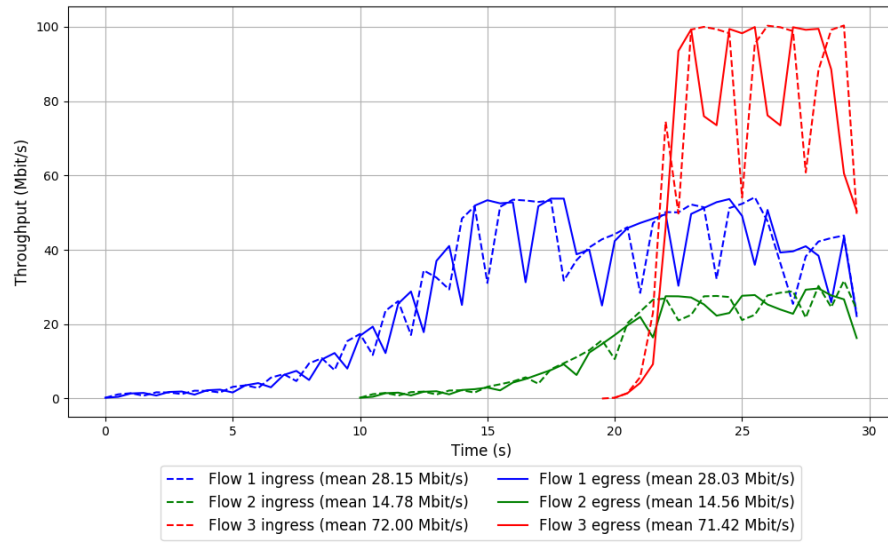
-- Flow 3:

Average throughput: 71.42 Mbit/s

95th percentile per-packet one-way delay: 148.523 ms

Loss rate: 3.55%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-27 02:06:22

End at: 2018-01-27 02:06:52

Below is generated by plot.py at 2018-01-27 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 132.26 Mbit/s

95th percentile per-packet one-way delay: 146.383 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 56.96 Mbit/s

95th percentile per-packet one-way delay: 146.645 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 79.99 Mbit/s

95th percentile per-packet one-way delay: 146.276 ms

Loss rate: 1.56%

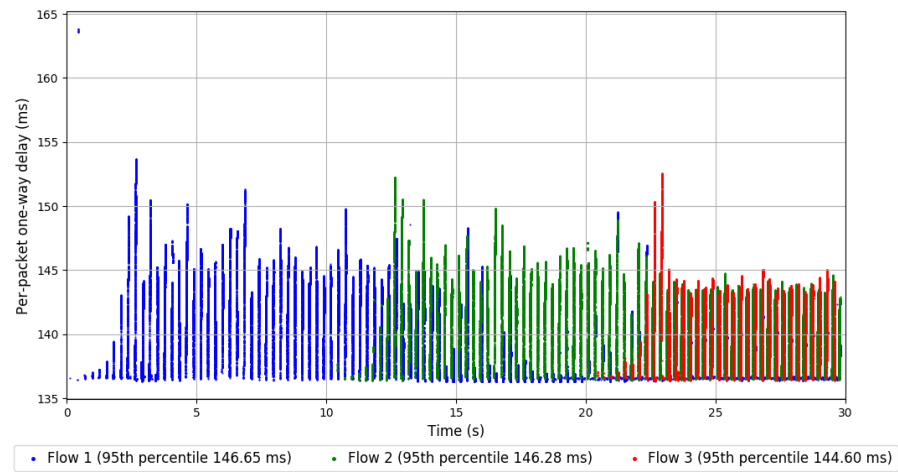
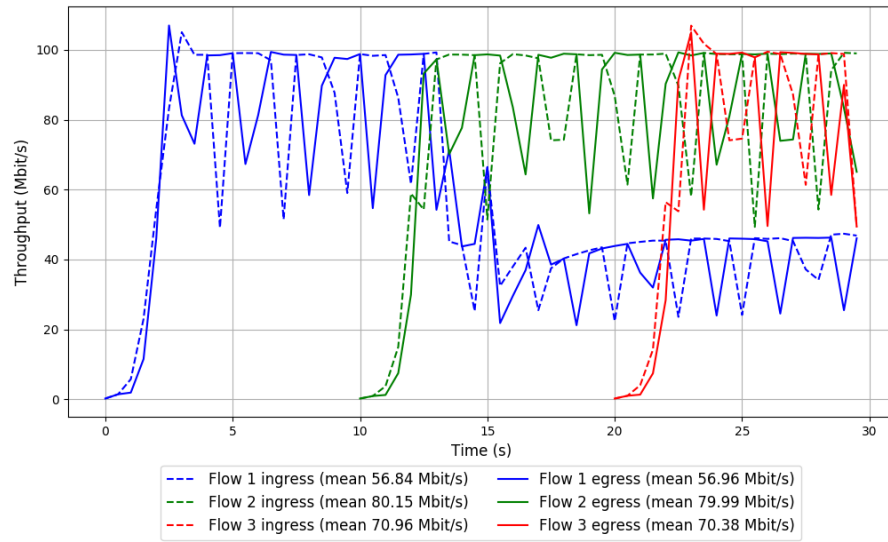
-- Flow 3:

Average throughput: 70.38 Mbit/s

95th percentile per-packet one-way delay: 144.597 ms

Loss rate: 3.59%

Run 10: Report of TCP Cubic — Data Link

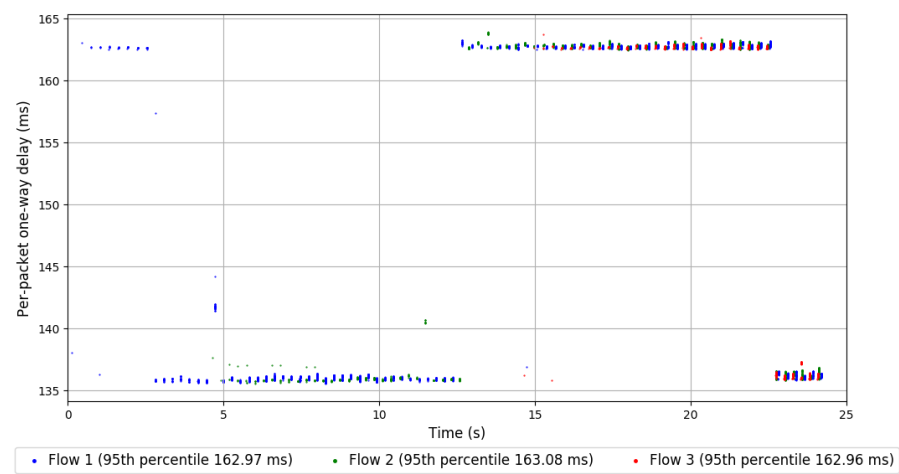
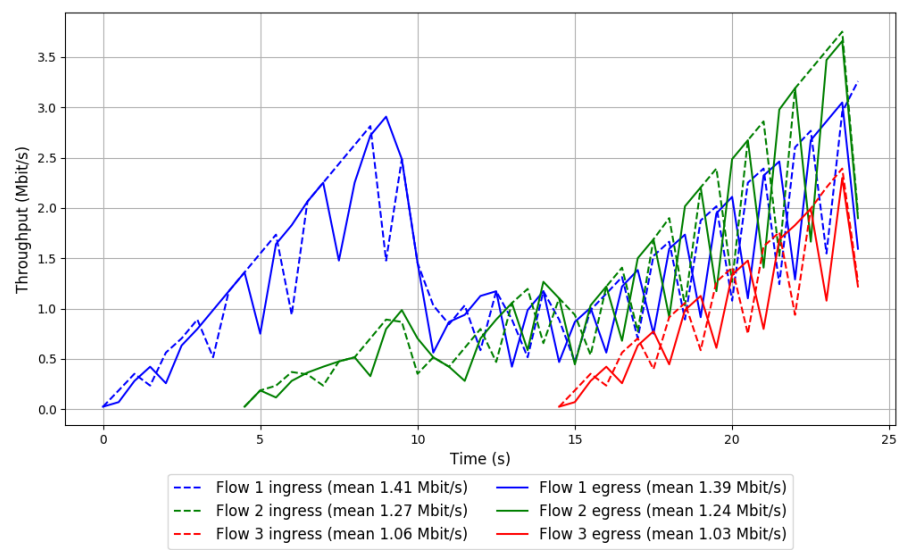


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 23:48:04
End at: 2018-01-26 23:48:34

# Below is generated by plot.py at 2018-01-27 05:06:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.80 Mbit/s
95th percentile per-packet one-way delay: 163.023 ms
Loss rate: 3.50%
-- Flow 1:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 162.967 ms
Loss rate: 2.42%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 163.084 ms
Loss rate: 3.87%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 162.962 ms
Loss rate: 6.14%
```


Run 1: Report of LEDBAT — Data Link

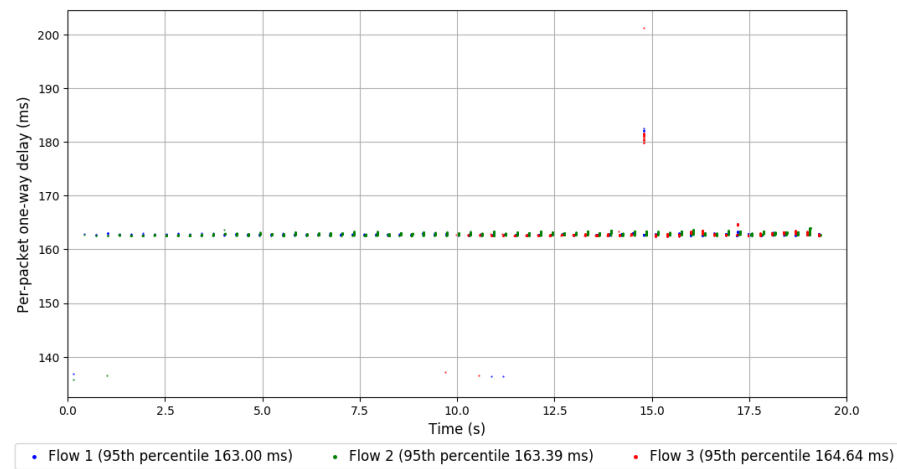
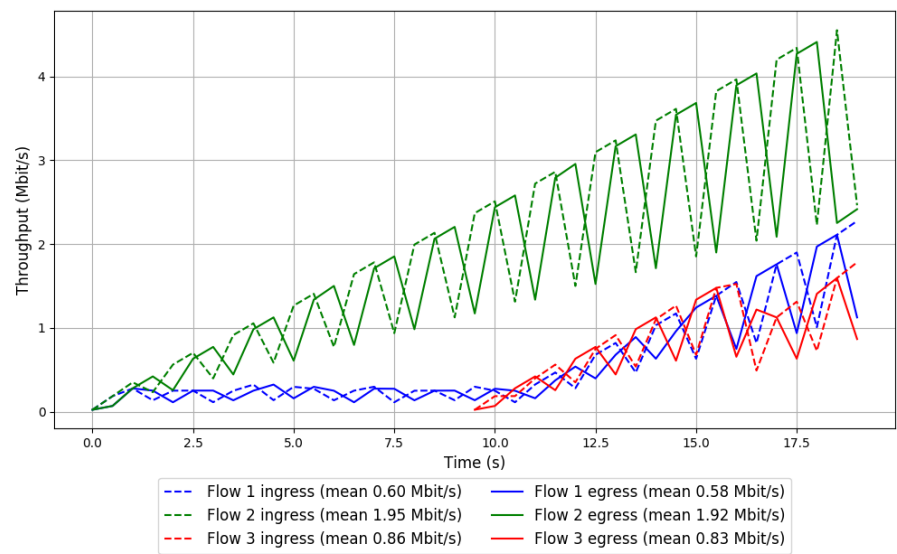


Run 2: Statistics of LEDBAT

Start at: 2018-01-27 00:03:41

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

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-27 00:19:34

End at: 2018-01-27 00:20:04

Below is generated by plot.py at 2018-01-27 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 136.900 ms

Loss rate: 2.11%

-- Flow 1:

Average throughput: 1.53 Mbit/s

95th percentile per-packet one-way delay: 136.956 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 137.076 ms

Loss rate: 0.81%

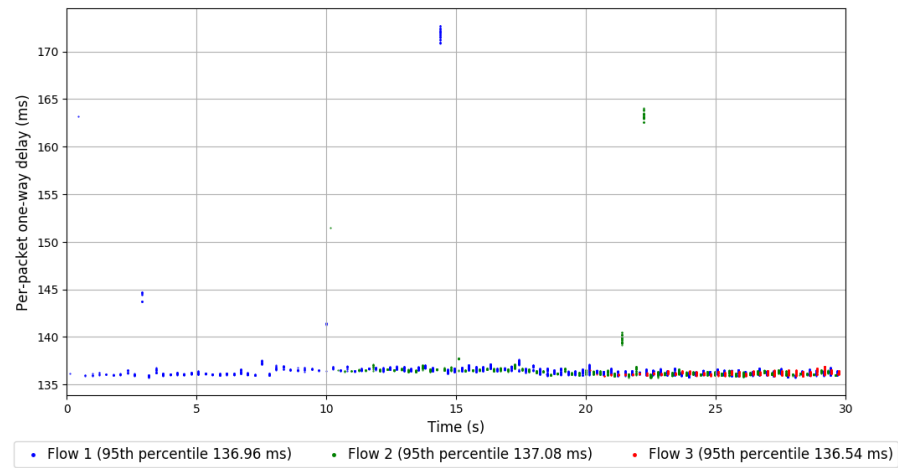
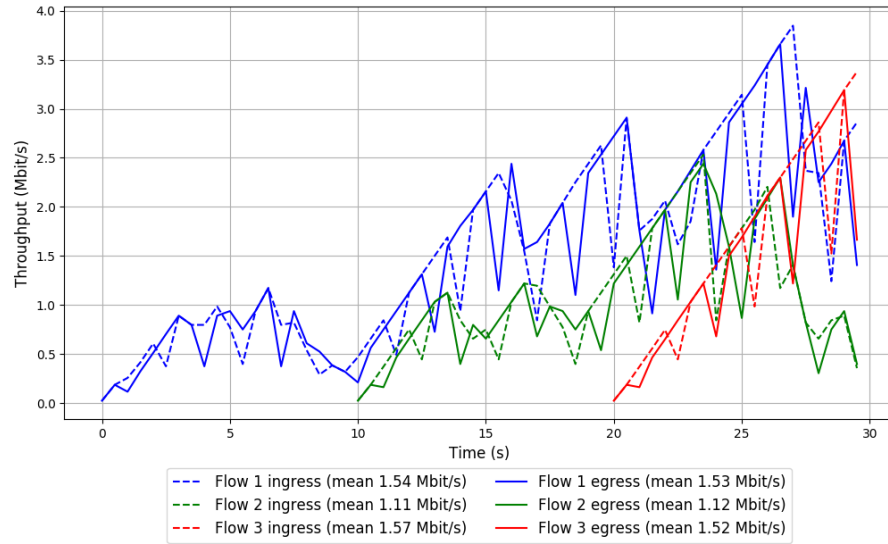
-- Flow 3:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 136.543 ms

Loss rate: 5.54%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-27 00:36:01

End at: 2018-01-27 00:36:31

Below is generated by plot.py at 2018-01-27 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 136.707 ms

Loss rate: 3.15%

-- Flow 1:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 136.759 ms

Loss rate: 2.97%

-- Flow 2:

Average throughput: 1.02 Mbit/s

95th percentile per-packet one-way delay: 136.469 ms

Loss rate: 3.22%

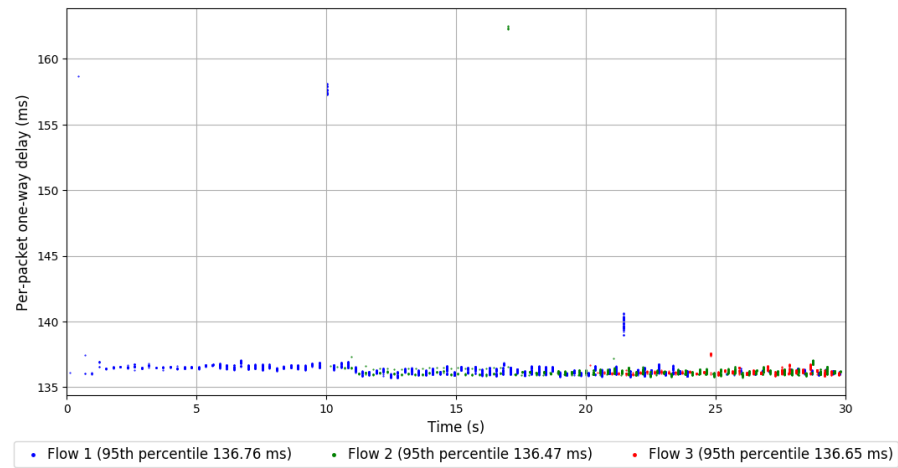
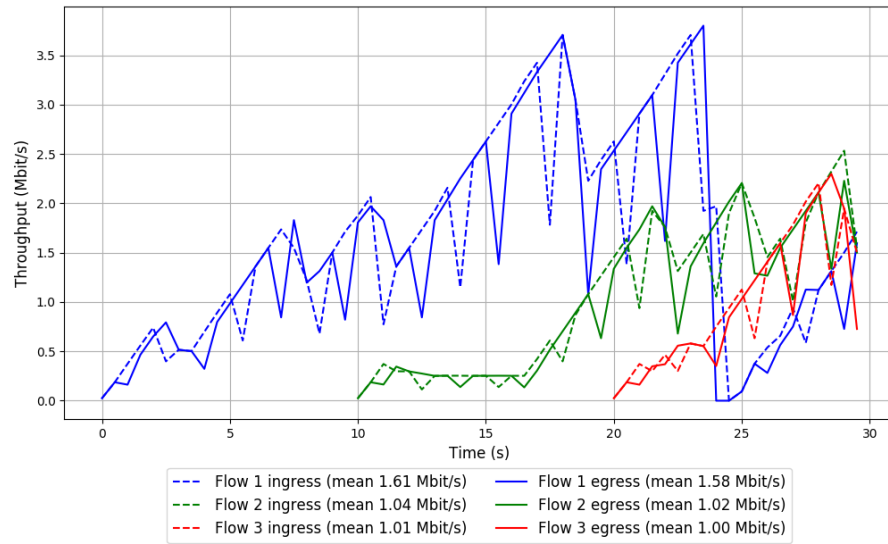
-- Flow 3:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 136.651 ms

Loss rate: 3.90%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-27 00:52:41

End at: 2018-01-27 00:53:11

Below is generated by plot.py at 2018-01-27 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 137.178 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 137.216 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.787 ms

Loss rate: 5.74%

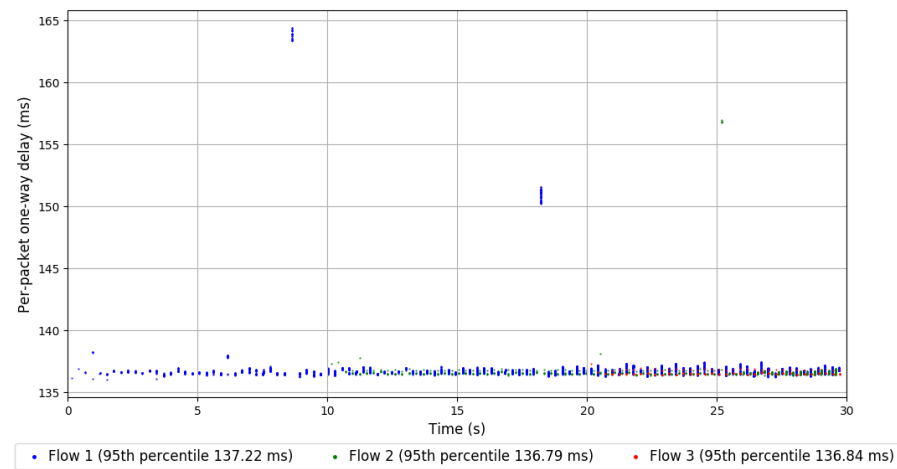
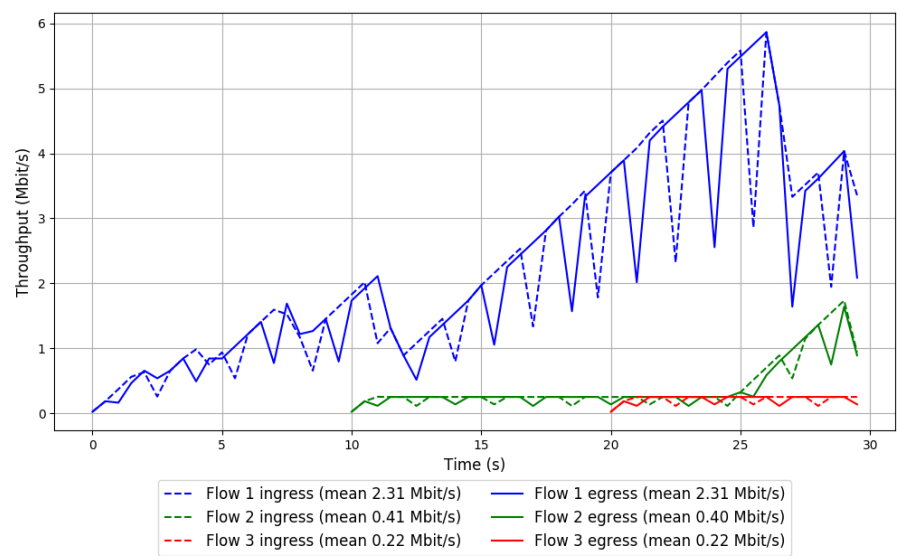
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.839 ms

Loss rate: 2.63%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-27 01:09:02

End at: 2018-01-27 01:09:32

Below is generated by plot.py at 2018-01-27 05:06:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.16 Mbit/s

95th percentile per-packet one-way delay: 137.517 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 137.555 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 137.208 ms

Loss rate: 0.57%

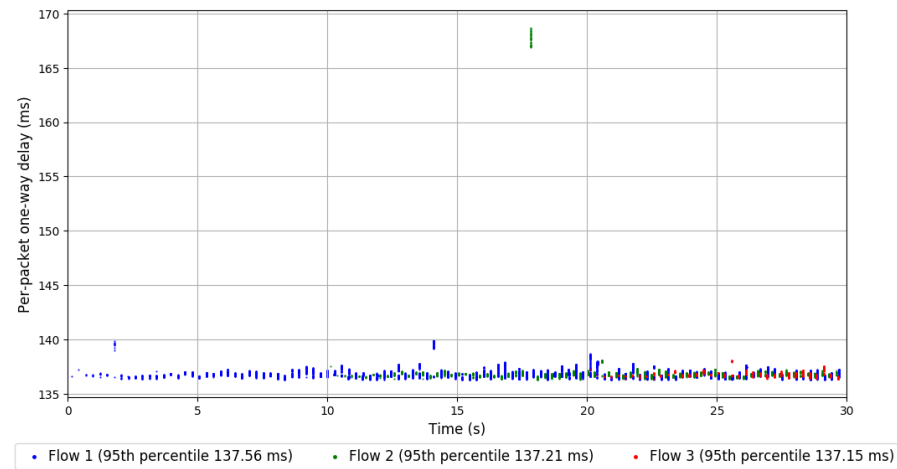
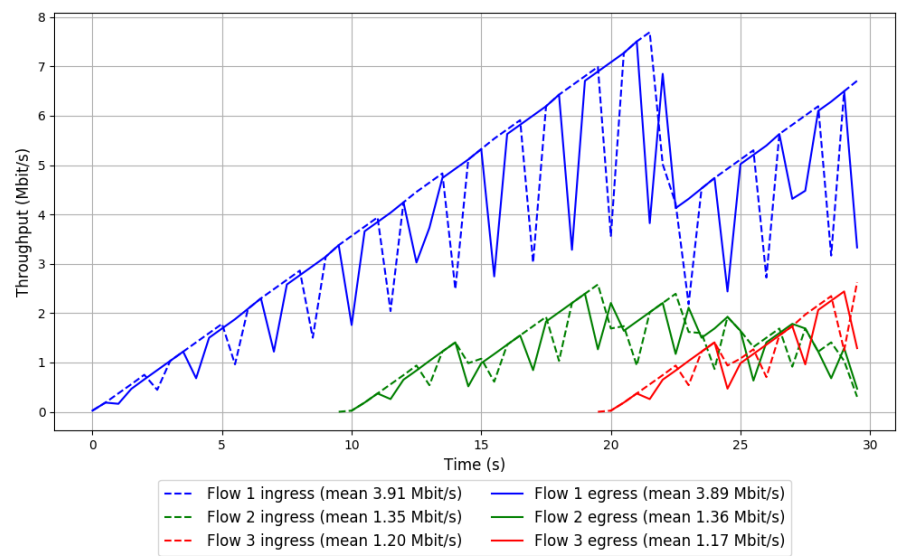
-- Flow 3:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 137.153 ms

Loss rate: 5.66%

Run 6: Report of LEDBAT — Data Link

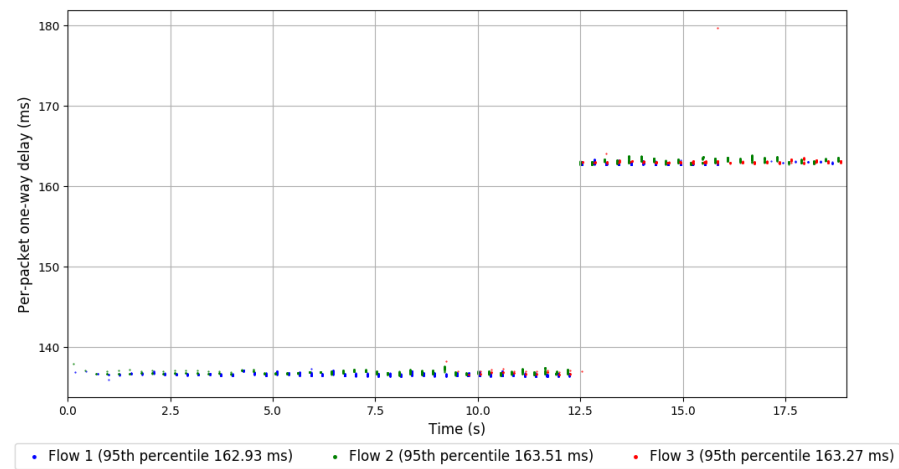
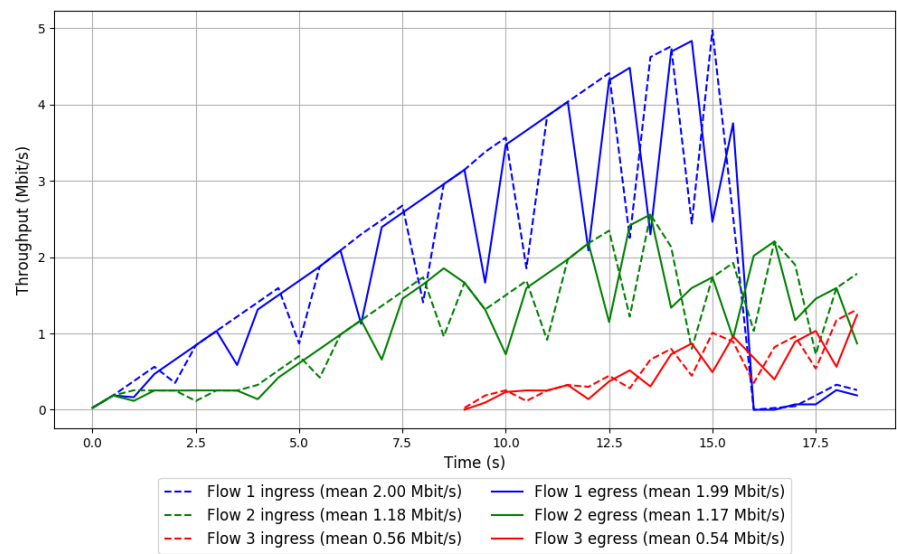


Run 7: Statistics of LEDBAT

Start at: 2018-01-27 01:24:49

End at: 2018-01-27 01:25:19

Run 7: Report of LEDBAT — Data Link

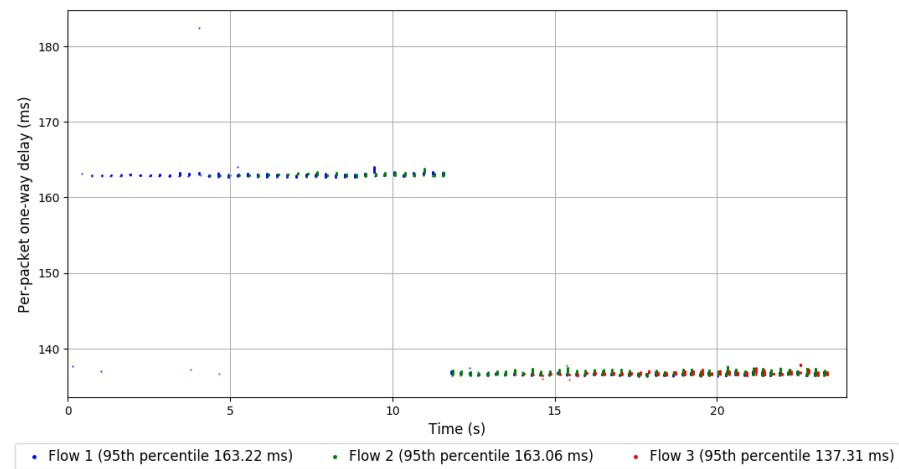
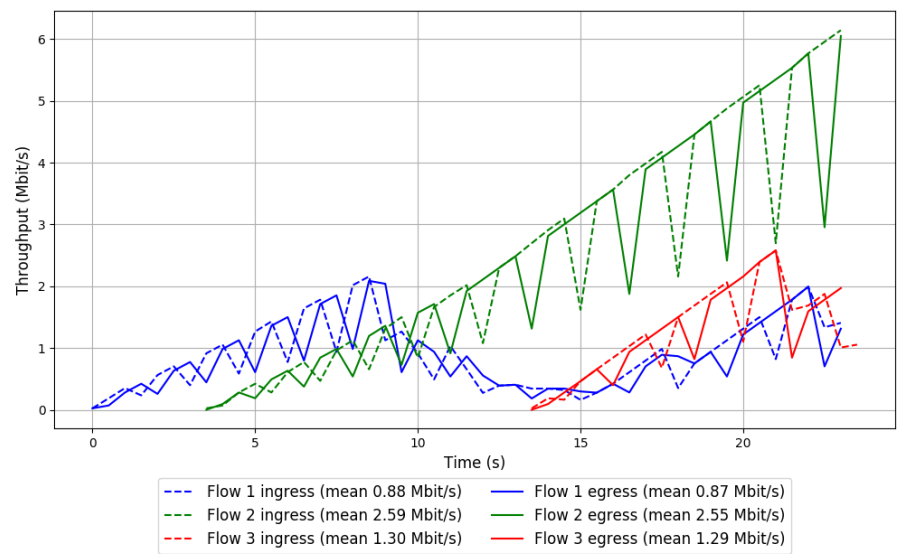


Run 8: Statistics of LEDBAT

Start at: 2018-01-27 01:41:05

End at: 2018-01-27 01:41:35

Run 8: Report of LEDBAT — Data Link

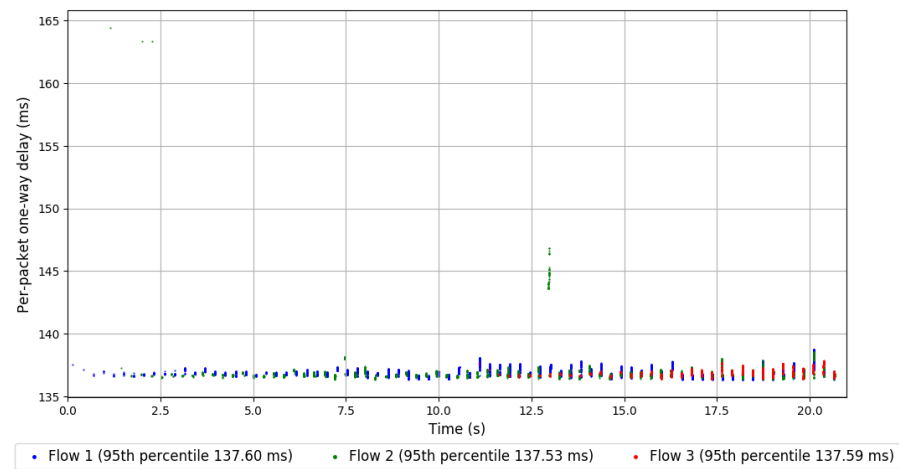
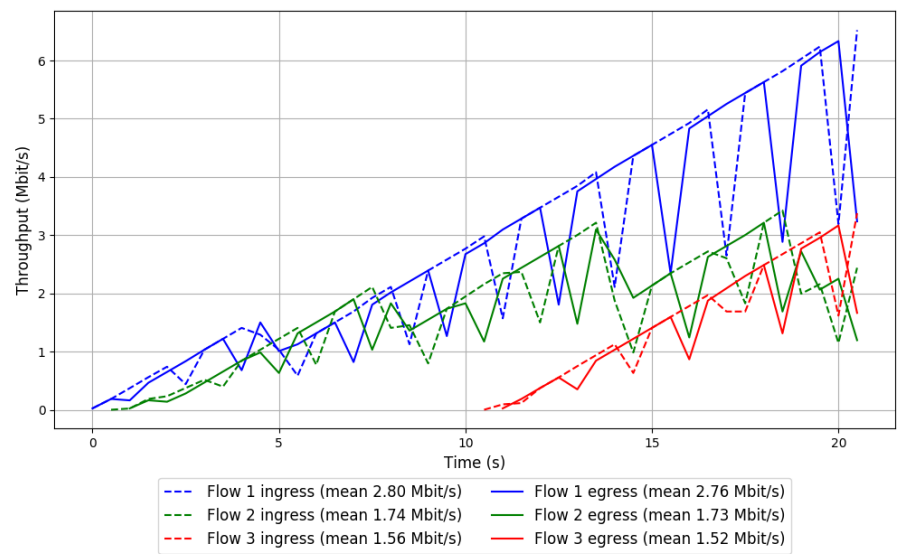


Run 9: Statistics of LEDBAT

Start at: 2018-01-27 01:56:32

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

Run 9: Report of LEDBAT — Data Link

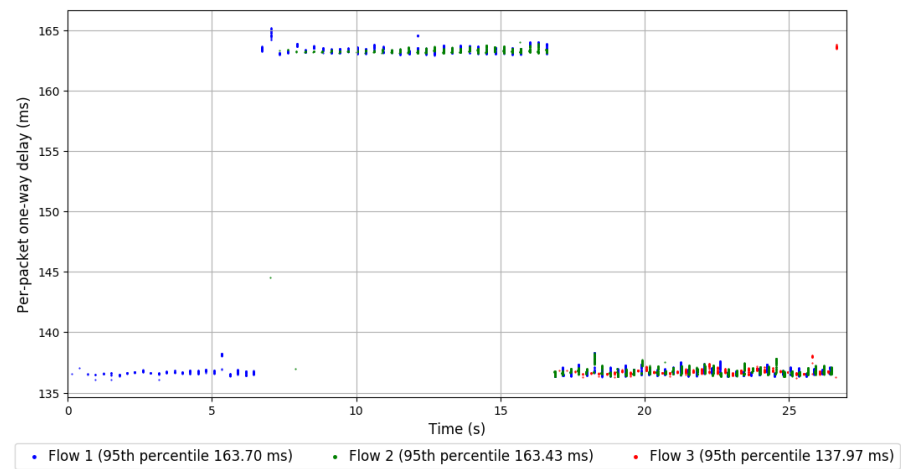
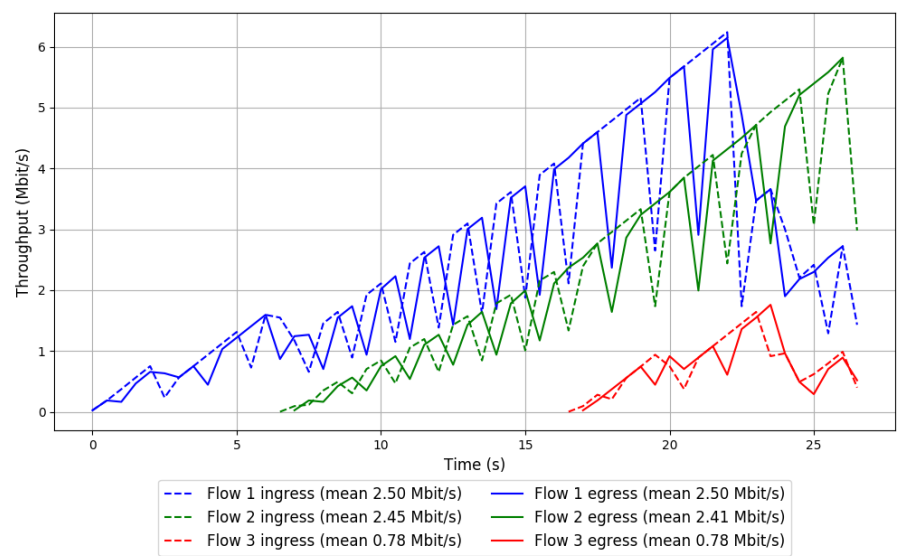


```
Run 10: Statistics of LEDBAT

Start at: 2018-01-27 02:11:53
End at: 2018-01-27 02:12:23

# Below is generated by plot.py at 2018-01-27 05:06:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 163.587 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 163.702 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 163.432 ms
Loss rate: 3.09%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 137.974 ms
Loss rate: 2.58%
```

Run 10: Report of LEDBAT — Data Link

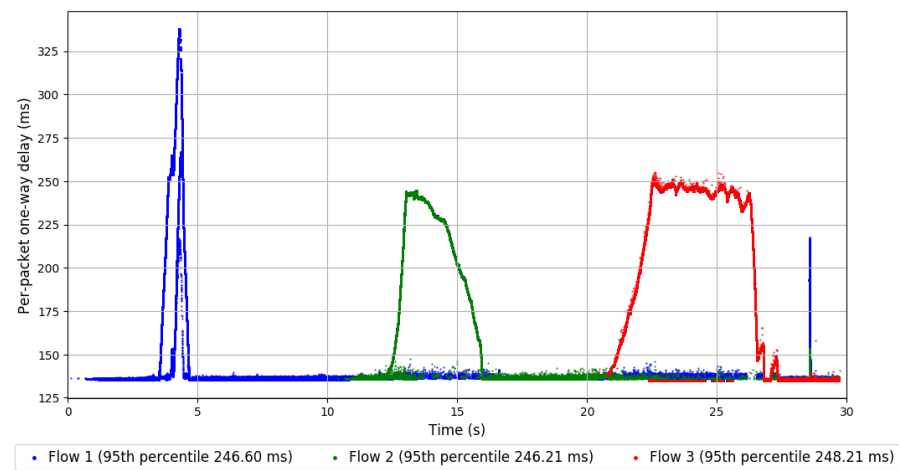
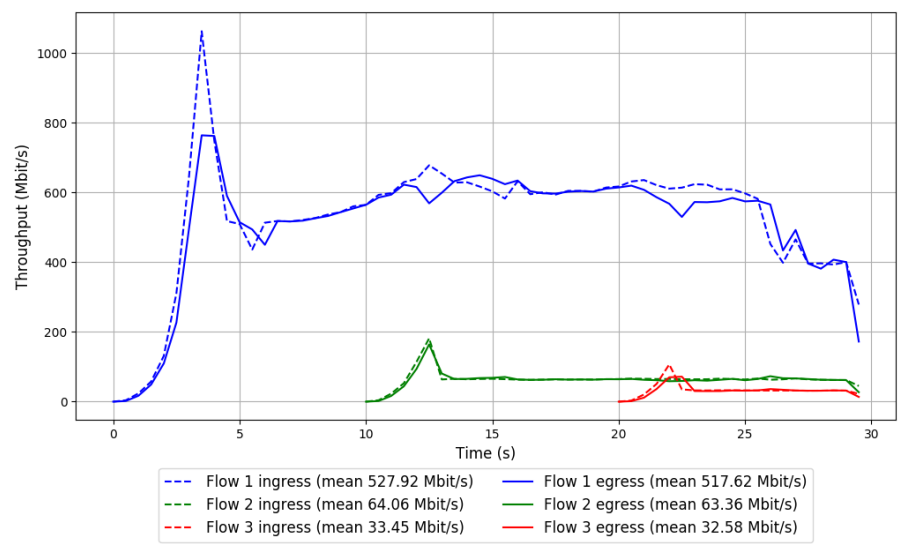


```
Run 1: Statistics of PCC

Start at: 2018-01-26 23:34:22
End at: 2018-01-26 23:34:52

# Below is generated by plot.py at 2018-01-27 05:15:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 569.94 Mbit/s
95th percentile per-packet one-way delay: 246.664 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 517.62 Mbit/s
95th percentile per-packet one-way delay: 246.599 ms
Loss rate: 2.85%
-- Flow 2:
Average throughput: 63.36 Mbit/s
95th percentile per-packet one-way delay: 246.206 ms
Loss rate: 2.44%
-- Flow 3:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 248.212 ms
Loss rate: 5.39%
```

Run 1: Report of PCC — Data Link

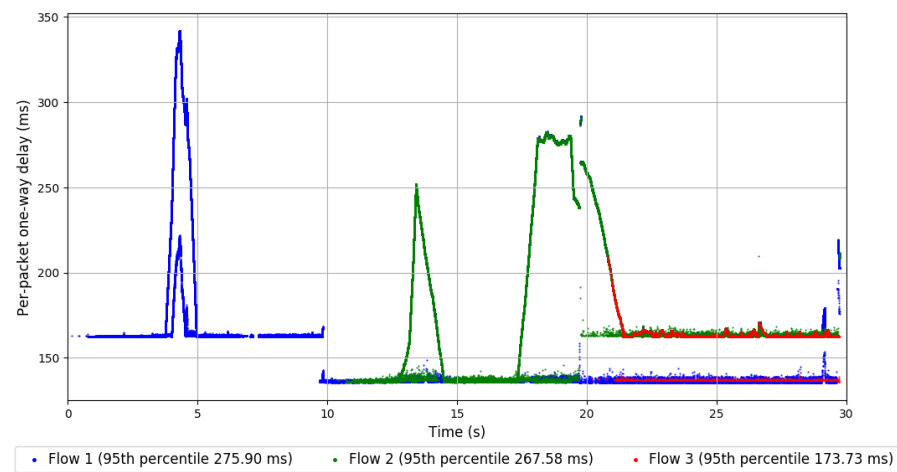
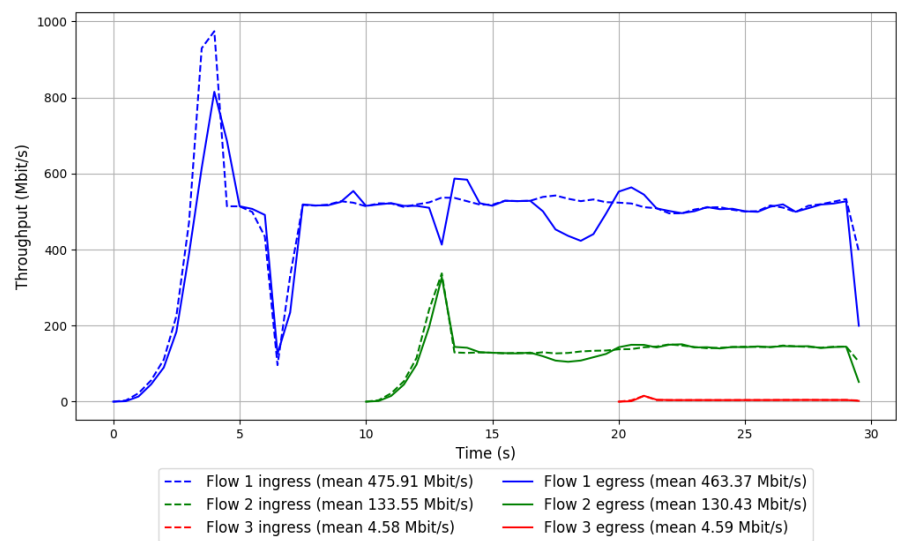


```
Run 2: Statistics of PCC

Start at: 2018-01-26 23:50:43
End at: 2018-01-26 23:51:13

# Below is generated by plot.py at 2018-01-27 05:15:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 551.13 Mbit/s
95th percentile per-packet one-way delay: 275.669 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 463.37 Mbit/s
95th percentile per-packet one-way delay: 275.898 ms
Loss rate: 3.61%
-- Flow 2:
Average throughput: 130.43 Mbit/s
95th percentile per-packet one-way delay: 267.576 ms
Loss rate: 3.69%
-- Flow 3:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 173.726 ms
Loss rate: 2.71%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-27 00:06:19

End at: 2018-01-27 00:06:49

Below is generated by plot.py at 2018-01-27 05:15:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 162.541 ms

Loss rate: 2.83%

-- Flow 1:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 162.556 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 162.543 ms

Loss rate: 1.66%

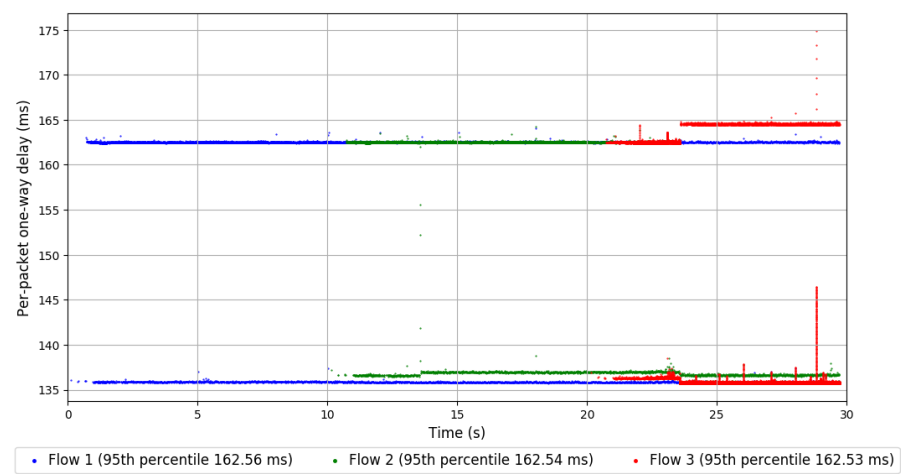
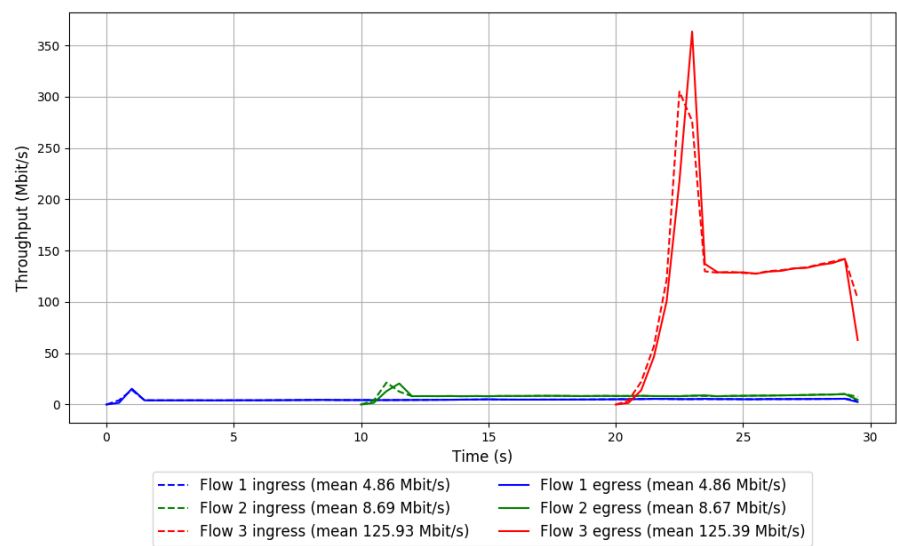
-- Flow 3:

Average throughput: 125.39 Mbit/s

95th percentile per-packet one-way delay: 162.534 ms

Loss rate: 3.19%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-27 00:22:12

End at: 2018-01-27 00:22:42

Below is generated by plot.py at 2018-01-27 05:15:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 530.18 Mbit/s

95th percentile per-packet one-way delay: 277.018 ms

Loss rate: 5.59%

-- Flow 1:

Average throughput: 448.97 Mbit/s

95th percentile per-packet one-way delay: 276.859 ms

Loss rate: 5.52%

-- Flow 2:

Average throughput: 121.81 Mbit/s

95th percentile per-packet one-way delay: 278.057 ms

Loss rate: 5.96%

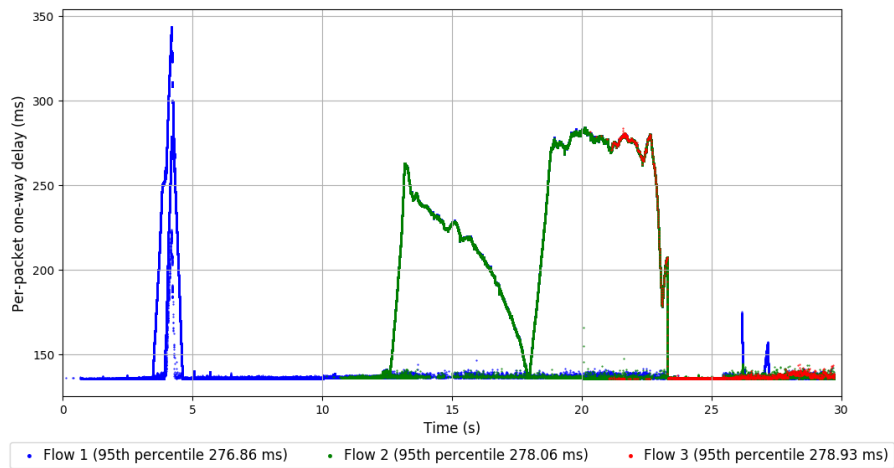
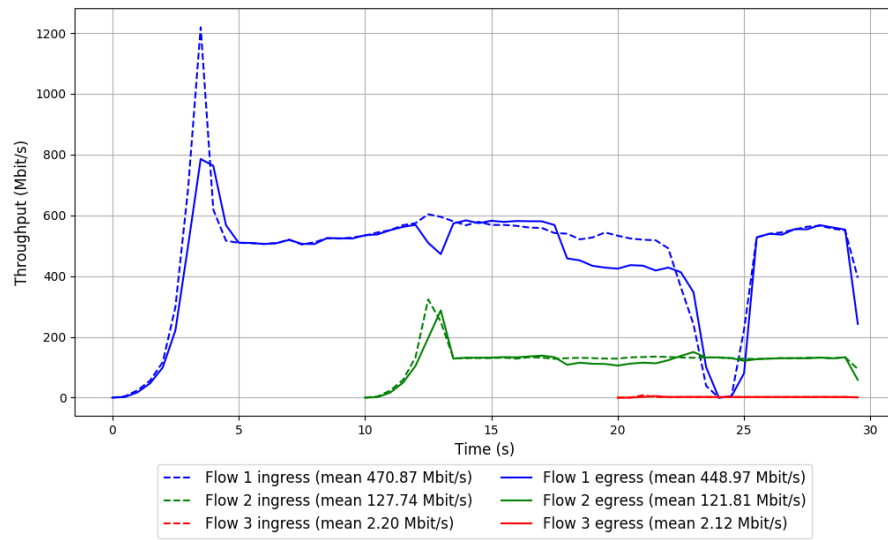
-- Flow 3:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 278.927 ms

Loss rate: 7.64%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-27 00:38:40

End at: 2018-01-27 00:39:10

Below is generated by plot.py at 2018-01-27 05:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 581.13 Mbit/s

95th percentile per-packet one-way delay: 247.343 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 527.04 Mbit/s

95th percentile per-packet one-way delay: 247.372 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 65.27 Mbit/s

95th percentile per-packet one-way delay: 247.192 ms

Loss rate: 1.97%

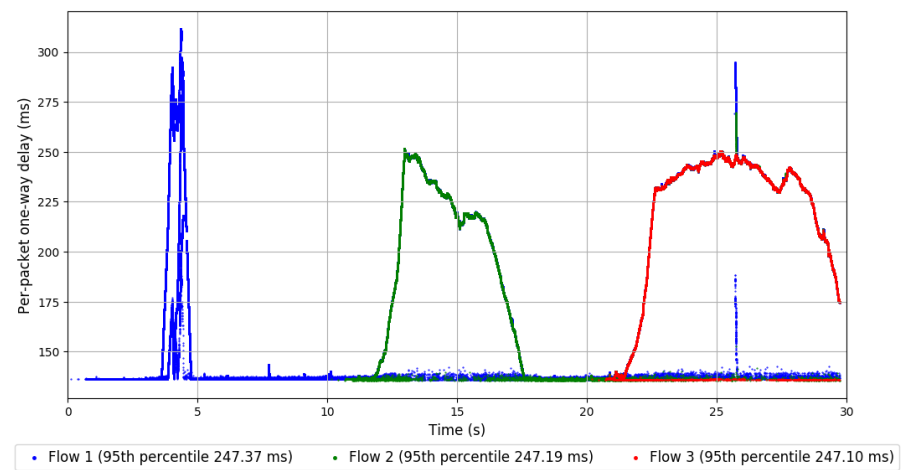
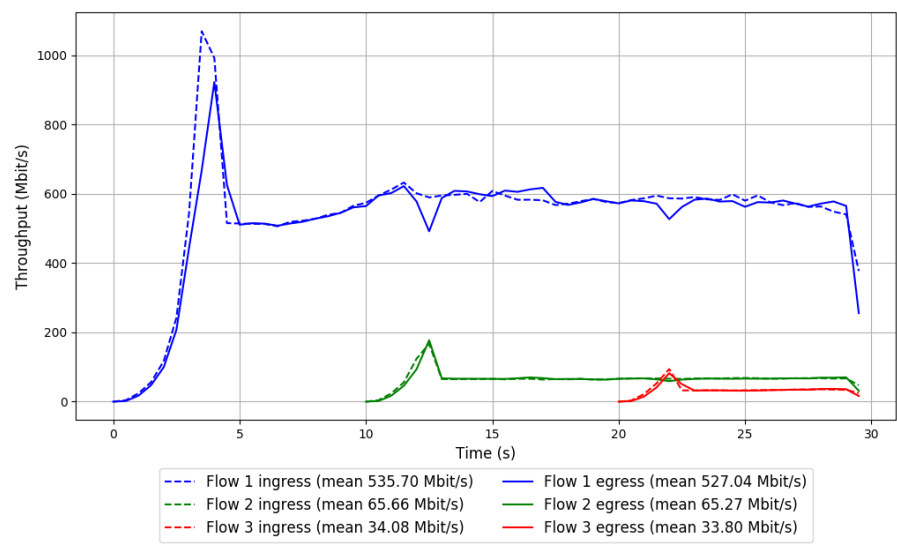
-- Flow 3:

Average throughput: 33.80 Mbit/s

95th percentile per-packet one-way delay: 247.097 ms

Loss rate: 3.58%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-27 00:55:20

End at: 2018-01-27 00:55:50

Below is generated by plot.py at 2018-01-27 05:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 539.81 Mbit/s

95th percentile per-packet one-way delay: 251.035 ms

Loss rate: 4.21%

-- Flow 1:

Average throughput: 442.99 Mbit/s

95th percentile per-packet one-way delay: 251.009 ms

Loss rate: 4.04%

-- Flow 2:

Average throughput: 130.66 Mbit/s

95th percentile per-packet one-way delay: 251.086 ms

Loss rate: 4.77%

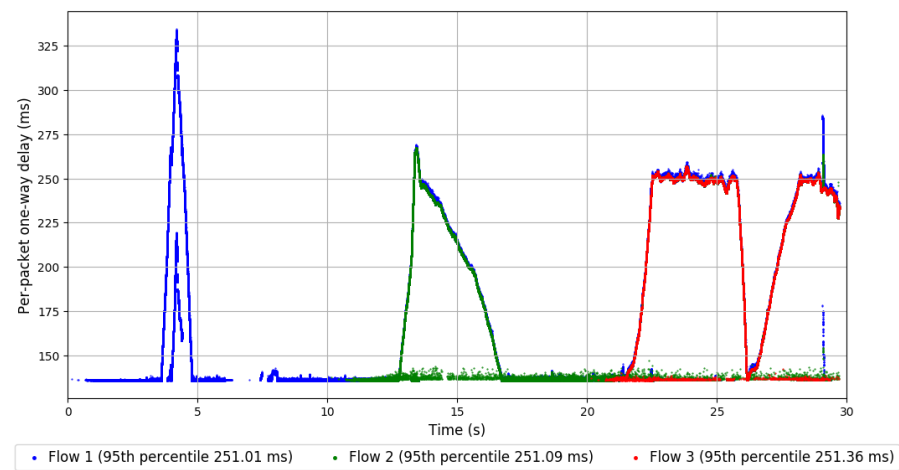
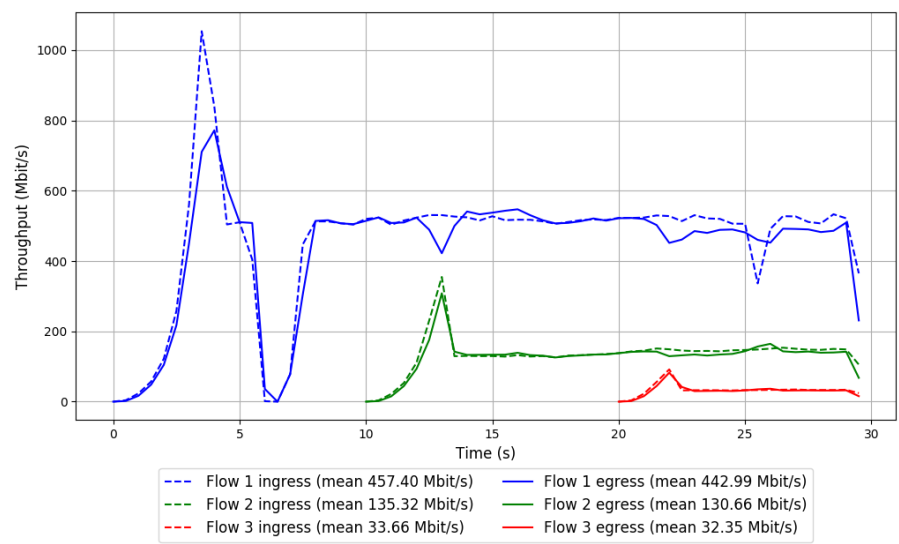
-- Flow 3:

Average throughput: 32.35 Mbit/s

95th percentile per-packet one-way delay: 251.364 ms

Loss rate: 6.54%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-27 01:11:41

End at: 2018-01-27 01:12:11

Below is generated by plot.py at 2018-01-27 05:15:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 474.69 Mbit/s

95th percentile per-packet one-way delay: 266.842 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 443.19 Mbit/s

95th percentile per-packet one-way delay: 266.773 ms

Loss rate: 2.13%

-- Flow 2:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 266.653 ms

Loss rate: 1.80%

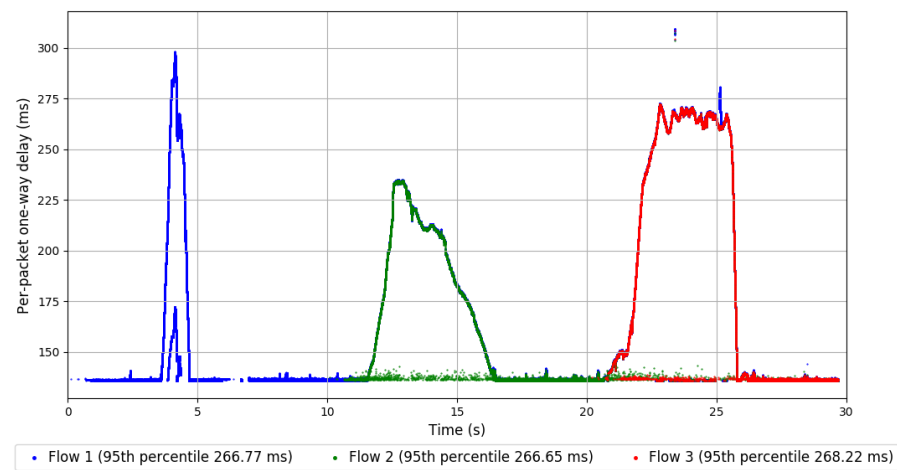
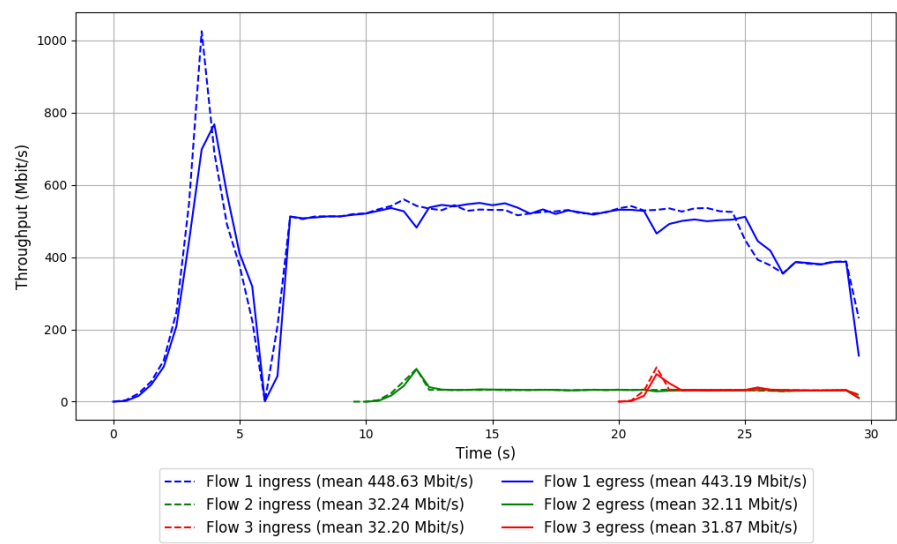
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 268.216 ms

Loss rate: 3.85%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

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

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

Below is generated by plot.py at 2018-01-27 05:16:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 559.09 Mbit/s

95th percentile per-packet one-way delay: 248.829 ms

Loss rate: 4.23%

-- Flow 1:

Average throughput: 441.14 Mbit/s

95th percentile per-packet one-way delay: 248.693 ms

Loss rate: 3.82%

-- Flow 2:

Average throughput: 120.79 Mbit/s

95th percentile per-packet one-way delay: 249.595 ms

Loss rate: 4.80%

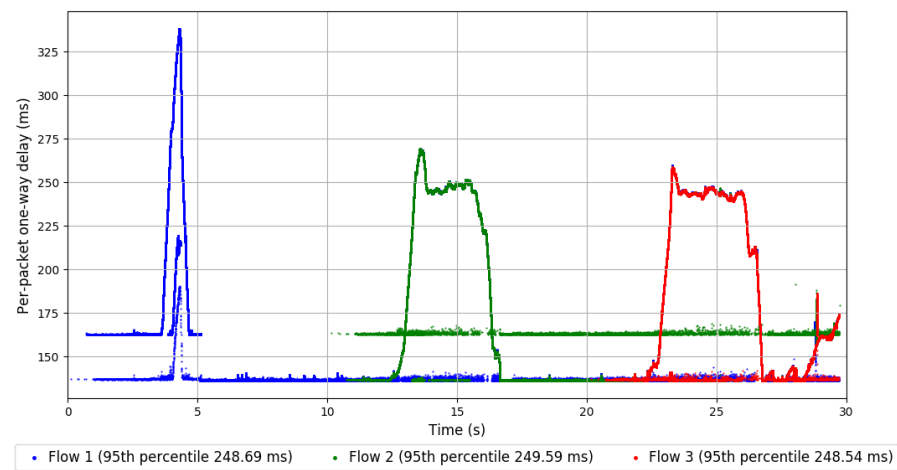
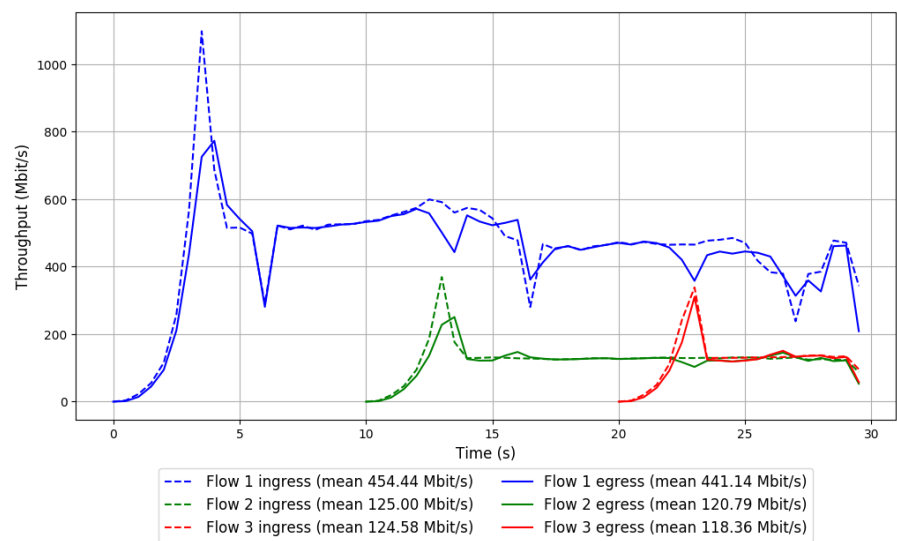
-- Flow 3:

Average throughput: 118.36 Mbit/s

95th percentile per-packet one-way delay: 248.543 ms

Loss rate: 7.70%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

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

End at: 2018-01-27 01:44:13

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 578.59 Mbit/s

95th percentile per-packet one-way delay: 257.753 ms

Loss rate: 2.97%

-- Flow 1:

Average throughput: 477.59 Mbit/s

95th percentile per-packet one-way delay: 256.592 ms

Loss rate: 2.57%

-- Flow 2:

Average throughput: 123.12 Mbit/s

95th percentile per-packet one-way delay: 265.503 ms

Loss rate: 4.16%

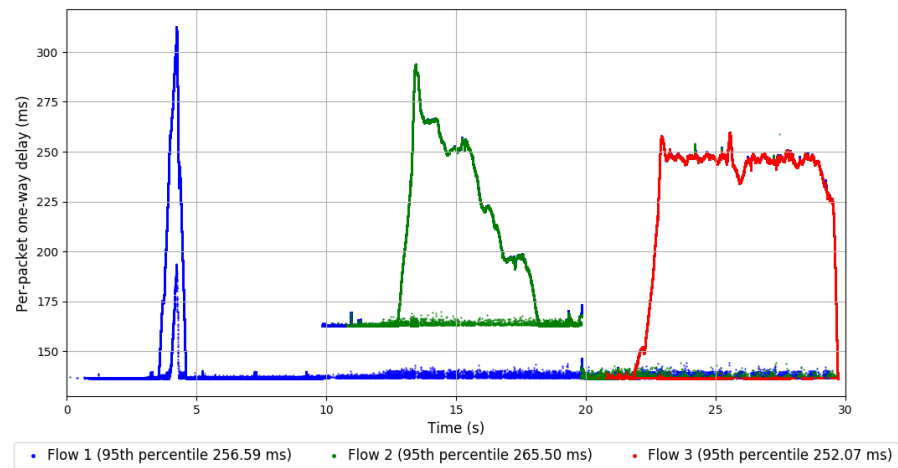
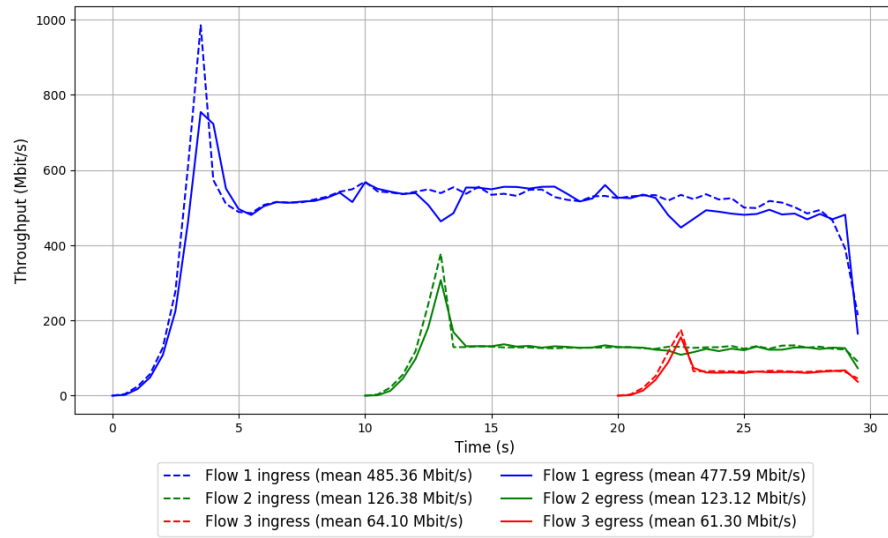
-- Flow 3:

Average throughput: 61.30 Mbit/s

95th percentile per-packet one-way delay: 252.069 ms

Loss rate: 7.27%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-27 01:59:09

End at: 2018-01-27 01:59:39

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.35 Mbit/s

95th percentile per-packet one-way delay: 163.222 ms

Loss rate: 2.98%

-- Flow 1:

Average throughput: 4.73 Mbit/s

95th percentile per-packet one-way delay: 163.361 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 10.05 Mbit/s

95th percentile per-packet one-way delay: 163.122 ms

Loss rate: 1.82%

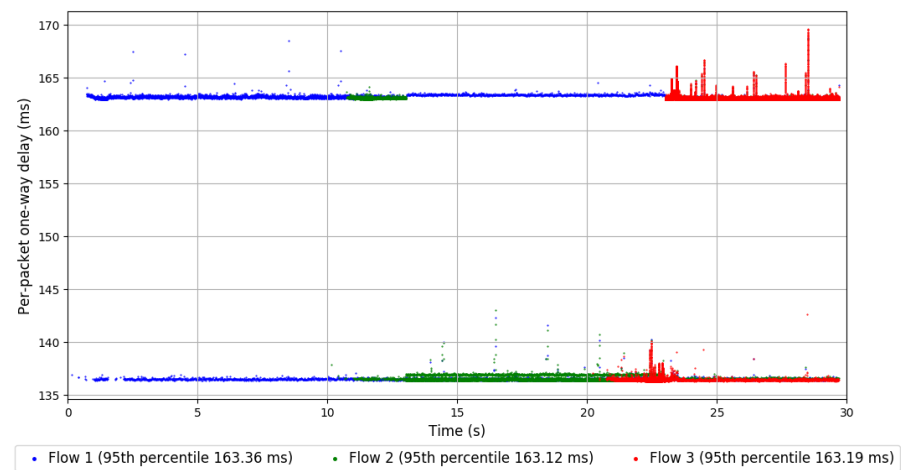
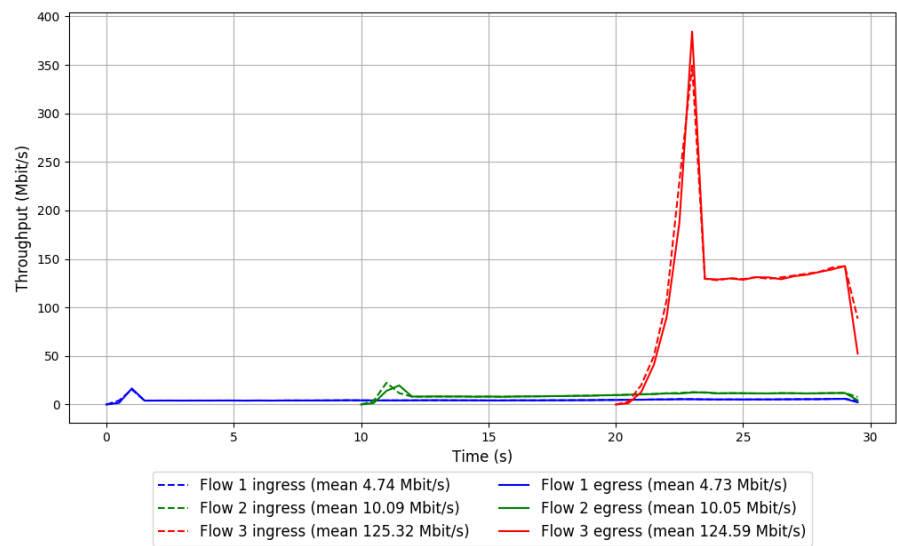
-- Flow 3:

Average throughput: 124.59 Mbit/s

95th percentile per-packet one-way delay: 163.195 ms

Loss rate: 3.37%

Run 10: Report of PCC — Data Link

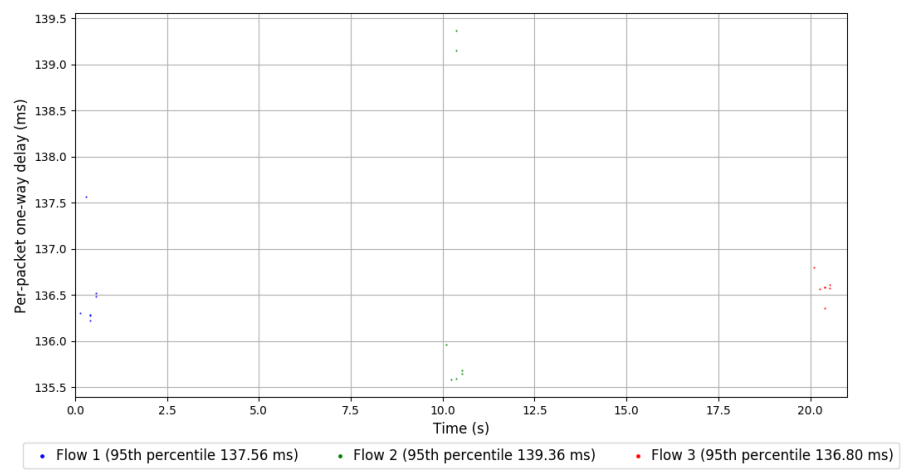
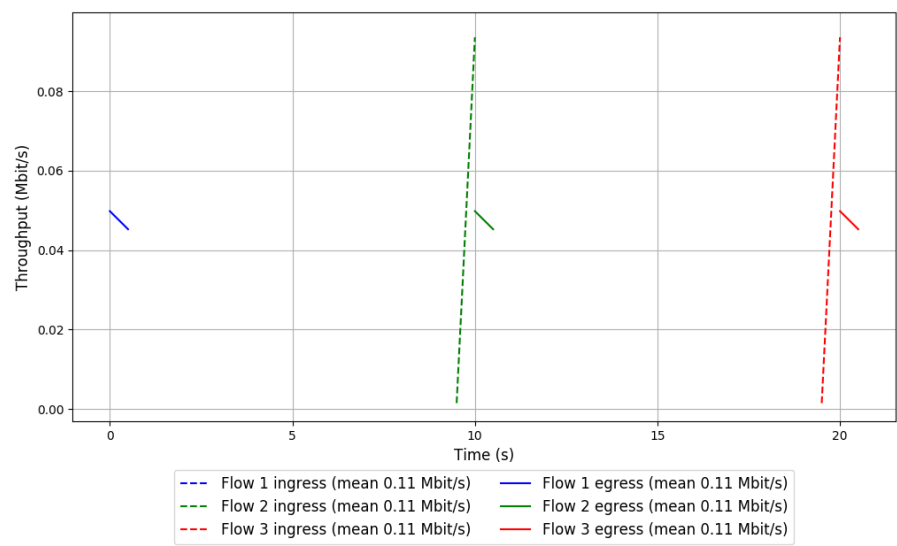


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 23:43:30

End at: 2018-01-26 23:44:00

Run 1: Report of QUIC Cubic — Data Link

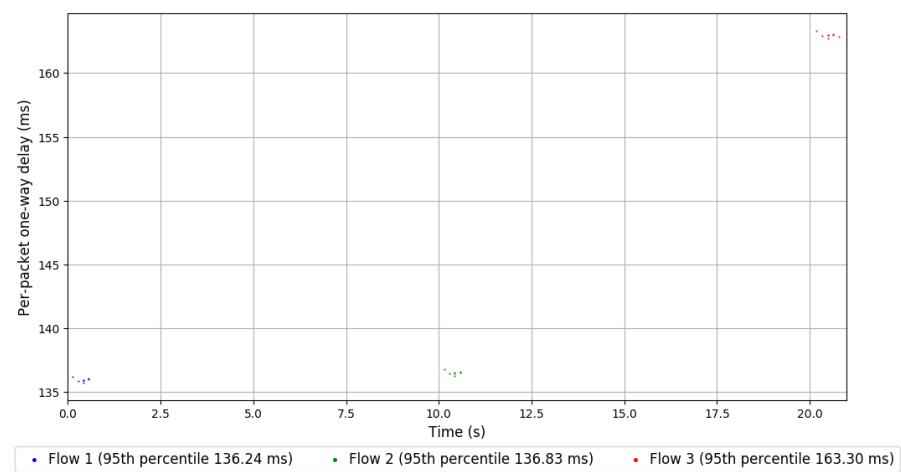
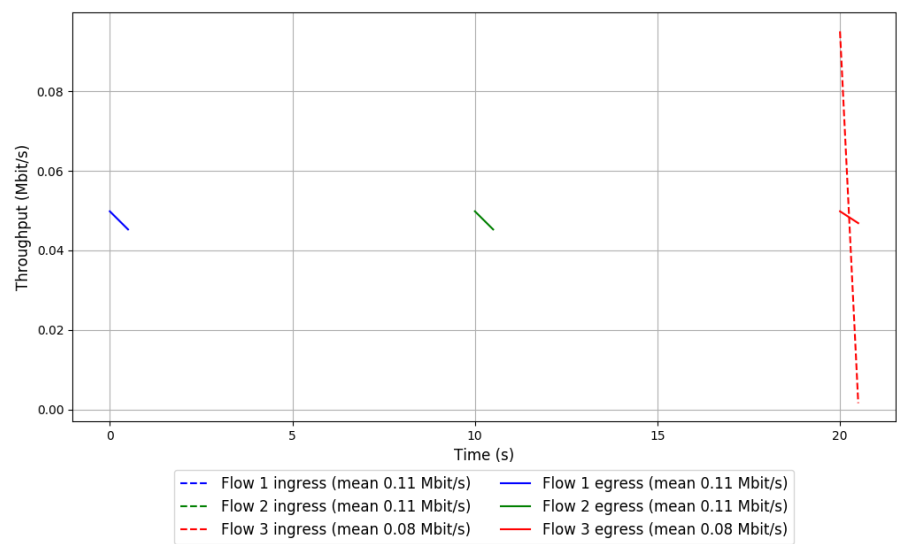


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 23:59:14

End at: 2018-01-26 23:59:44

Run 2: Report of QUIC Cubic — Data Link

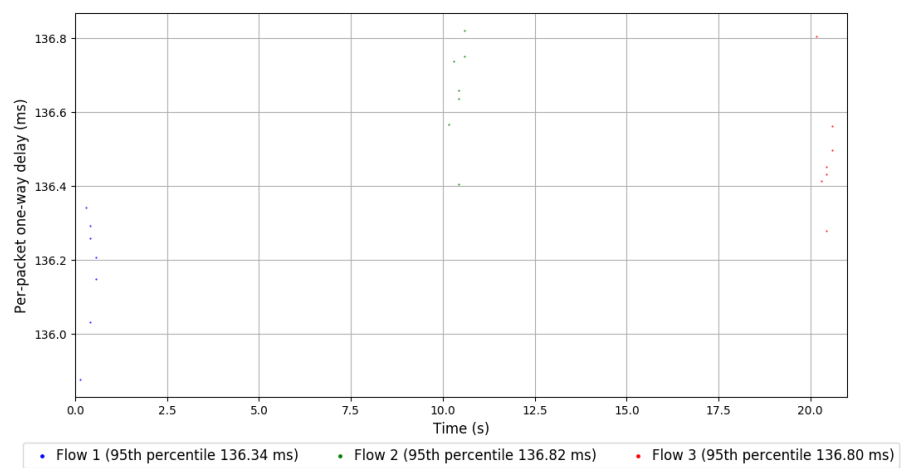
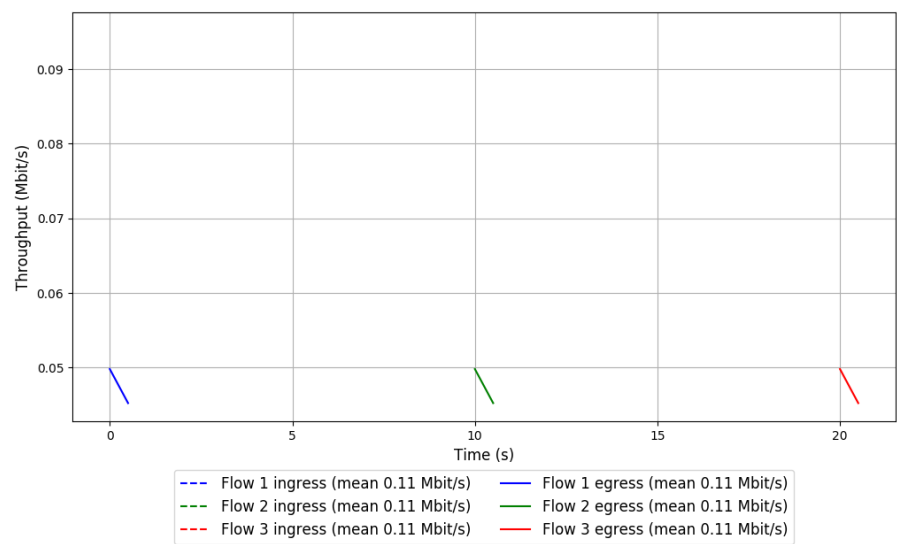


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-27 00:14:52

End at: 2018-01-27 00:15:22

Run 3: Report of QUIC Cubic — Data Link

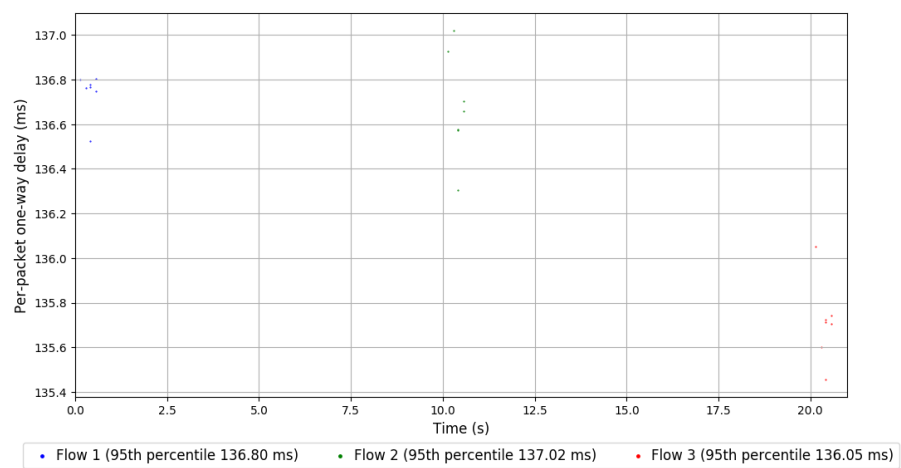
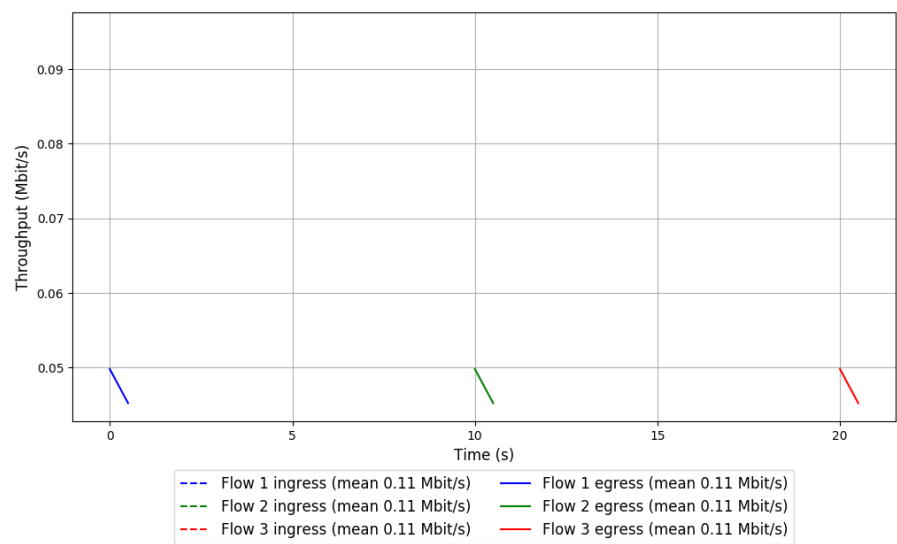


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-27 00:31:18

End at: 2018-01-27 00:31:48

Run 4: Report of QUIC Cubic — Data Link

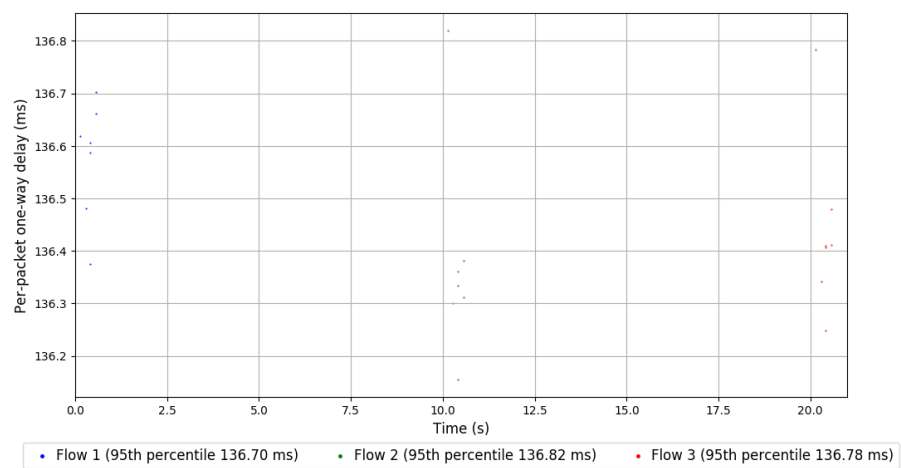
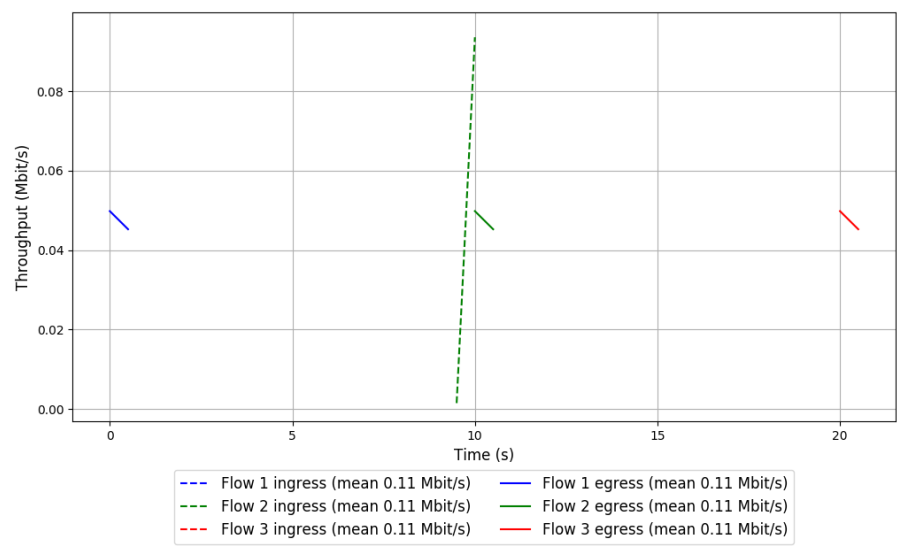


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-27 00:47:56

End at: 2018-01-27 00:48:26

Run 5: Report of QUIC Cubic — Data Link

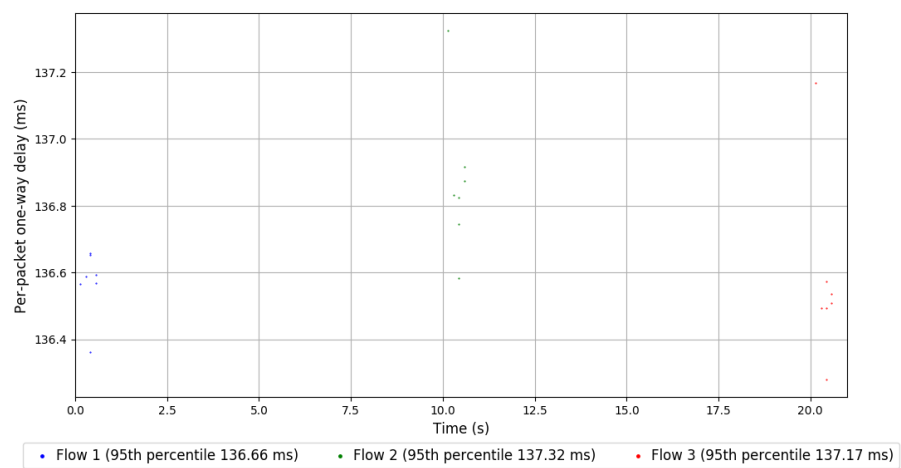
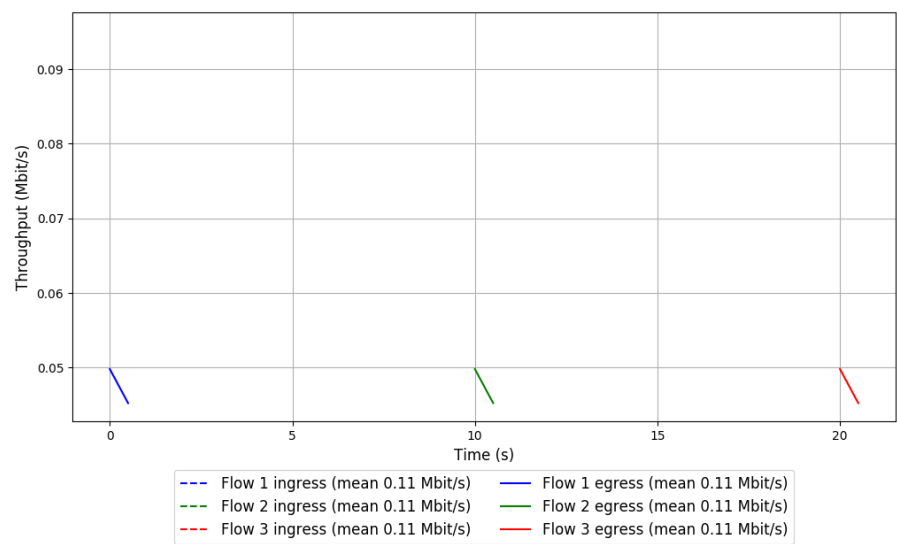


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-27 01:04:19

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

Run 6: Report of QUIC Cubic — Data Link

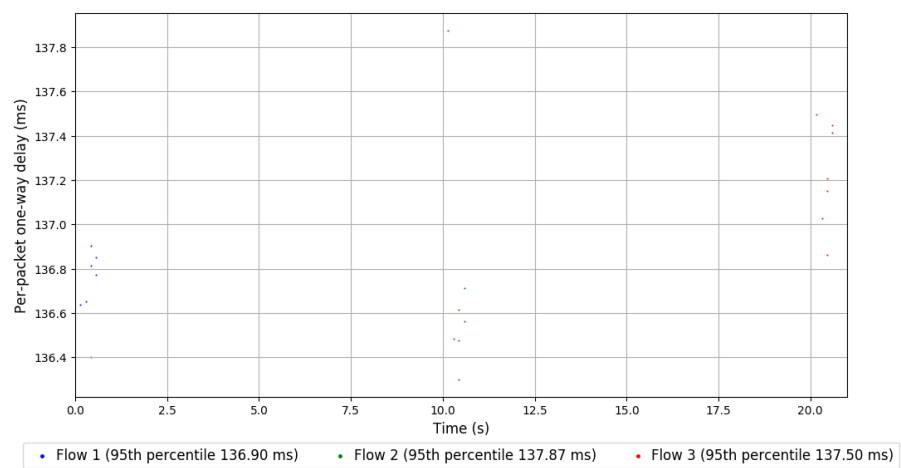
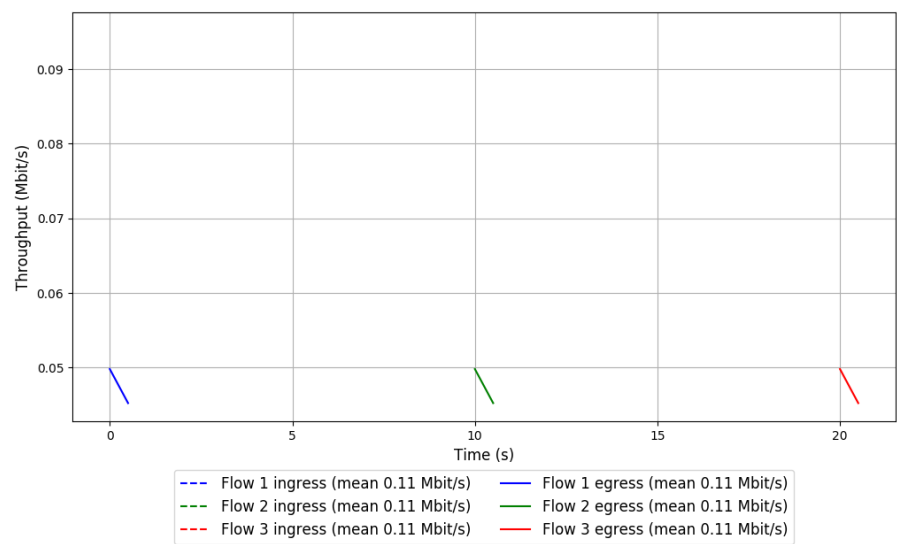


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-27 01:20:21

End at: 2018-01-27 01:20:51

Run 7: Report of QUIC Cubic — Data Link

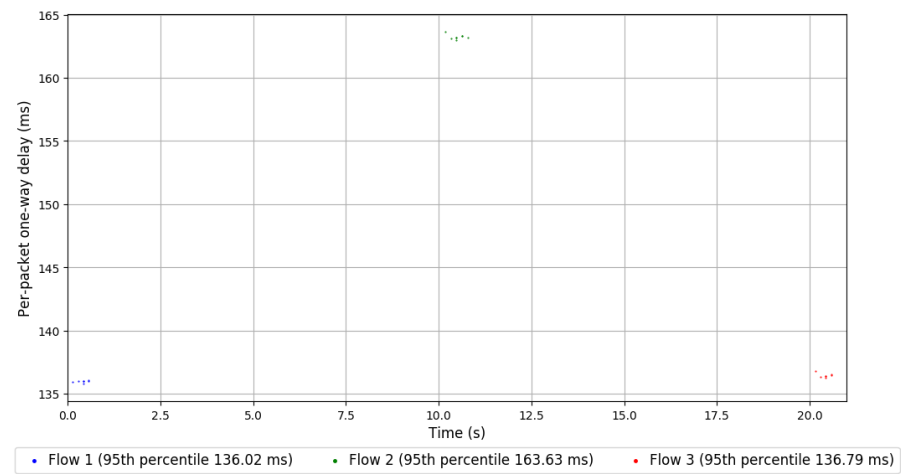
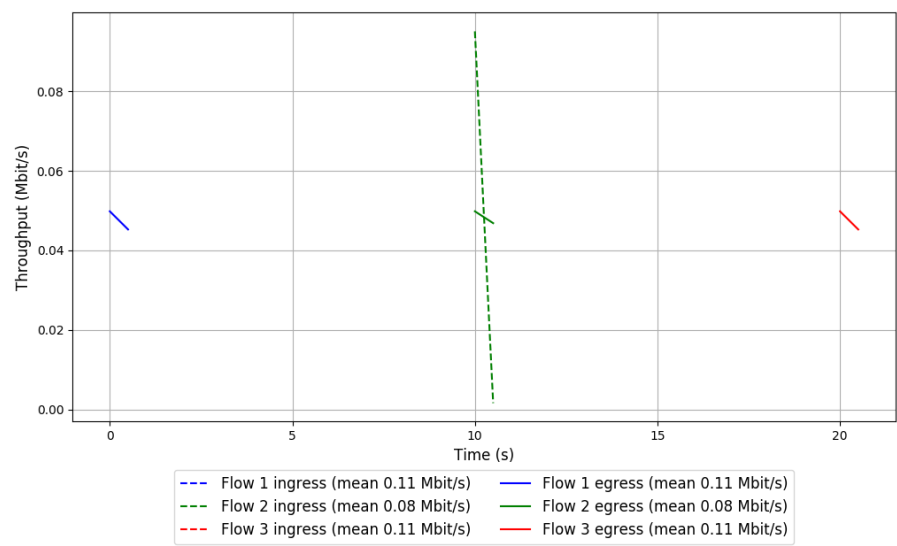


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-27 01:36:30

End at: 2018-01-27 01:37:00

Run 8: Report of QUIC Cubic — Data Link

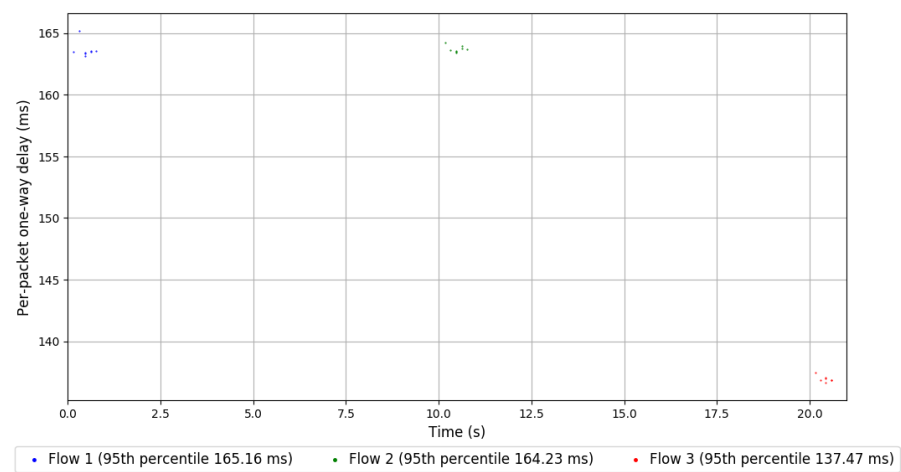
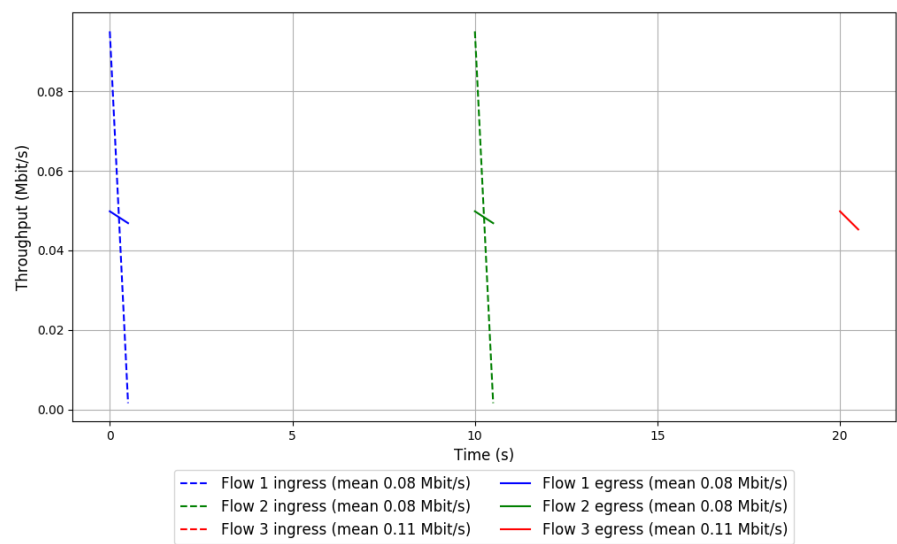


Run 9: Statistics of QUIC Cubic

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

End at: 2018-01-27 01:52:31

Run 9: Report of QUIC Cubic — Data Link

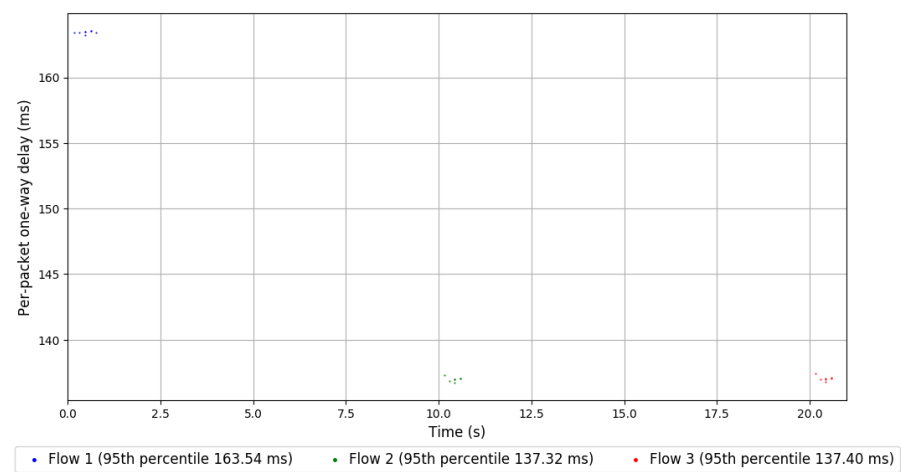
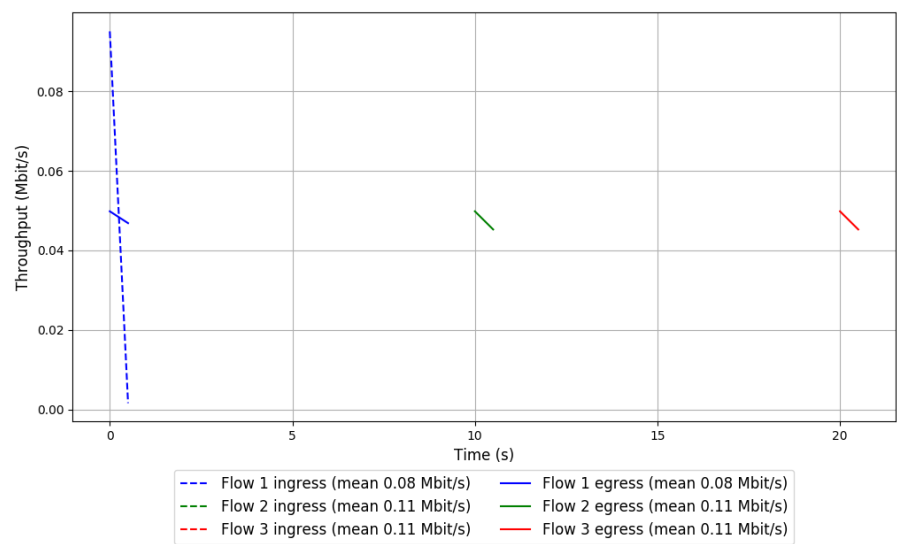


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-27 02:07:19

End at: 2018-01-27 02:07:49

Run 10: Report of QUIC Cubic — Data Link

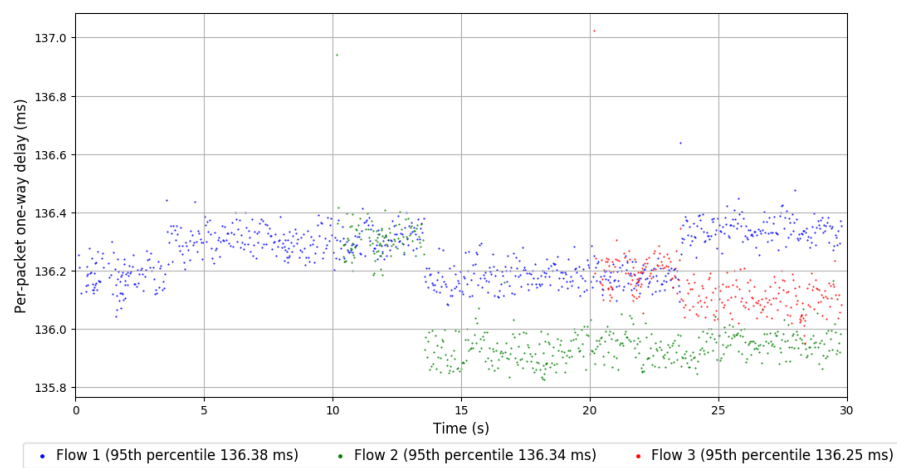
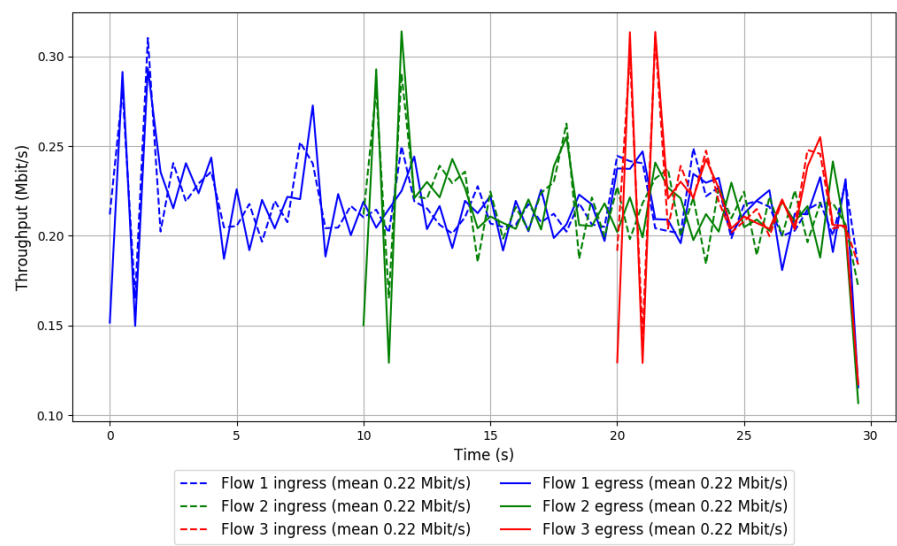


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 23:44:19
End at: 2018-01-26 23:44:49

# Below is generated by plot.py at 2018-01-27 05:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.368 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.381 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.342 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.245 ms
Loss rate: 2.63%
```

Run 1: Report of SReAM — Data Link

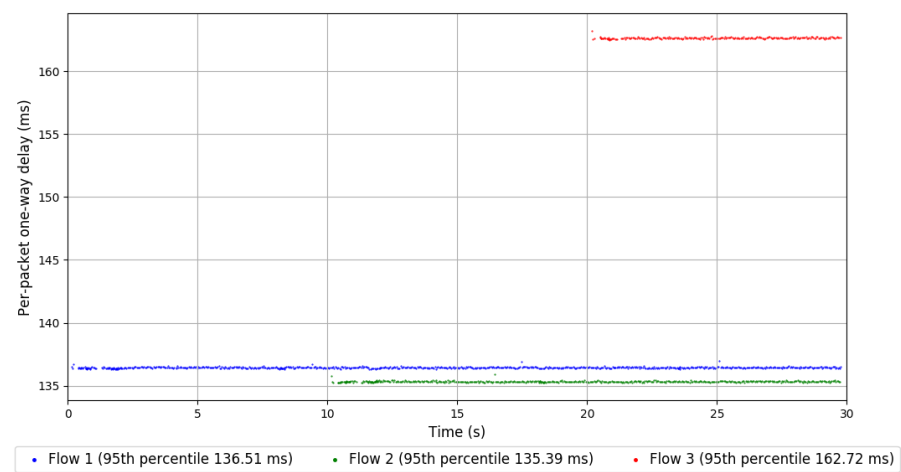
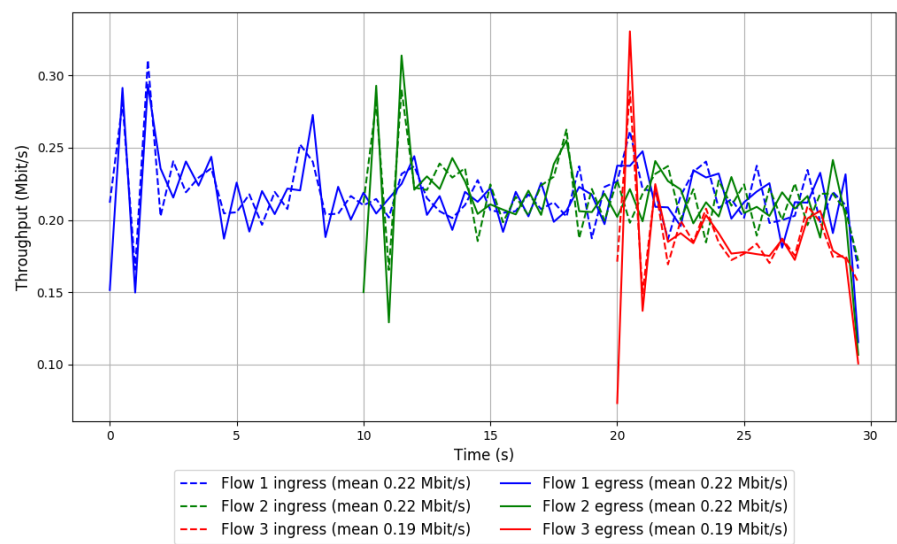


```
Run 2: Statistics of SReAM

Start at: 2018-01-27 00:00:02
End at: 2018-01-27 00:00:32

# Below is generated by plot.py at 2018-01-27 05:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 162.661 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.514 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.393 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 162.721 ms
Loss rate: 3.03%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-27 00:15:41

End at: 2018-01-27 00:16:11

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.124 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.142 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.21 Mbit/s

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

Loss rate: 1.42%

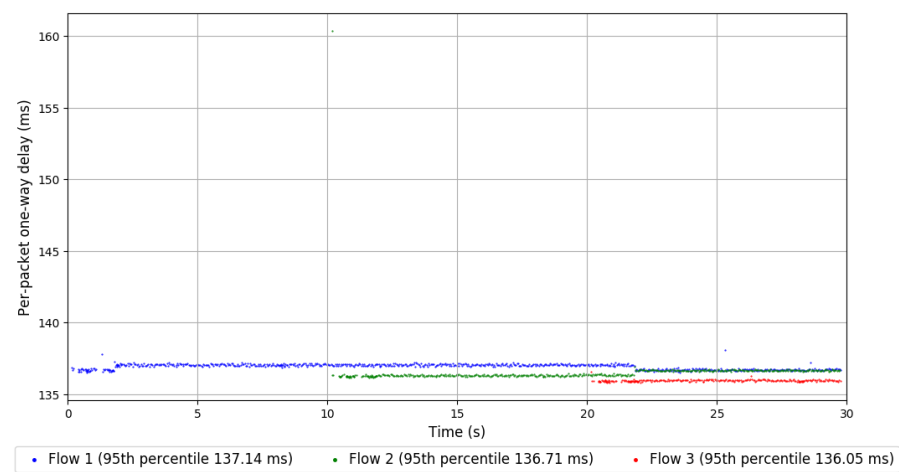
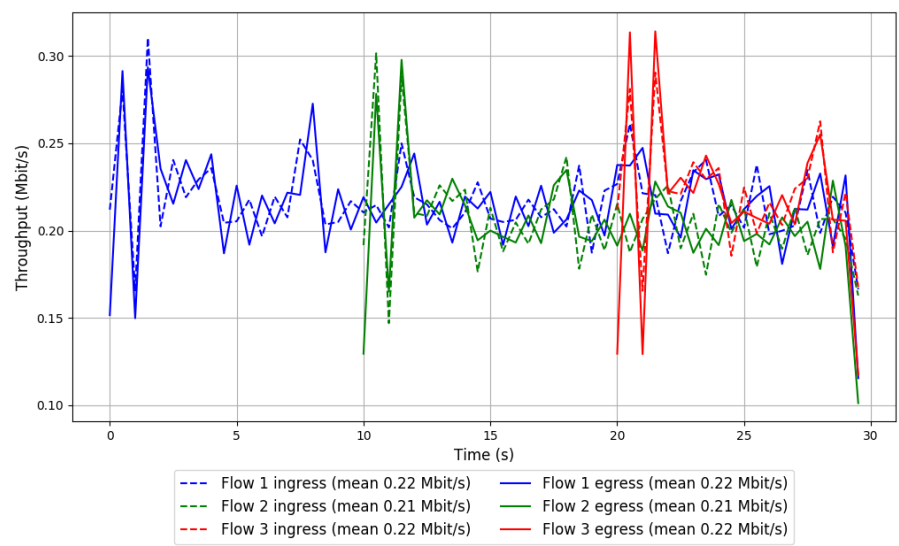
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.047 ms

Loss rate: 2.63%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-27 00:32:06

End at: 2018-01-27 00:32:36

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.007 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.999 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.391 ms

Loss rate: 1.42%

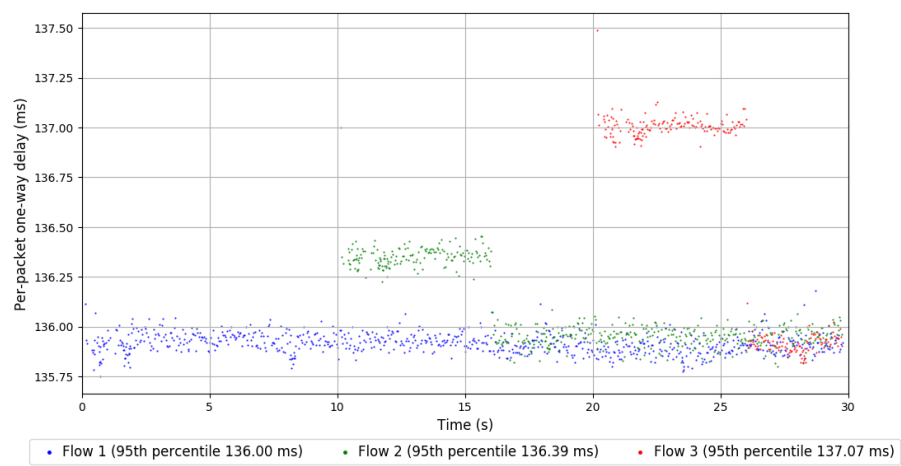
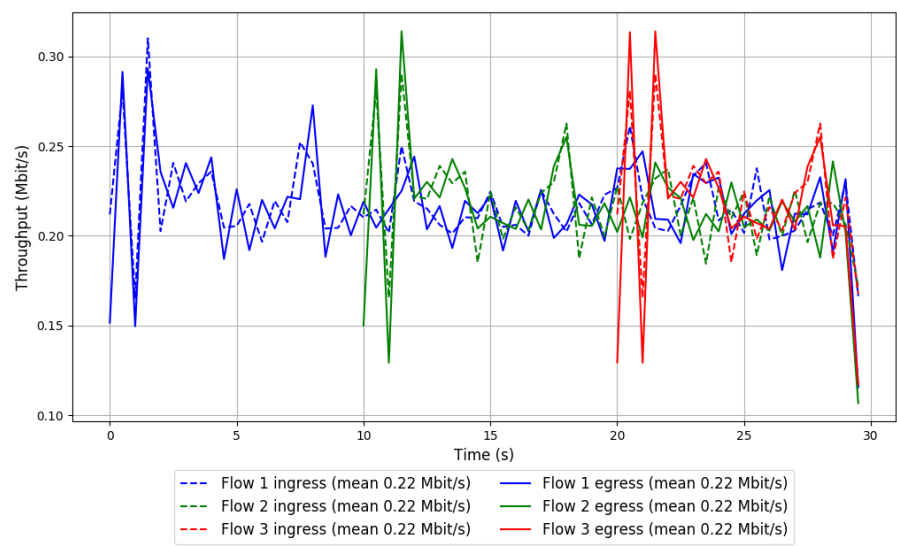
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.066 ms

Loss rate: 2.63%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-27 00:48:44

End at: 2018-01-27 00:49:14

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.796 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.555 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.829 ms

Loss rate: 1.42%

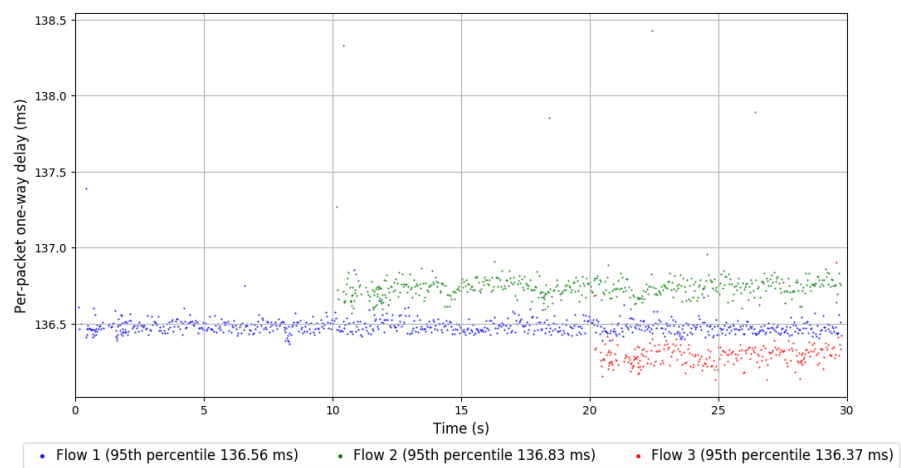
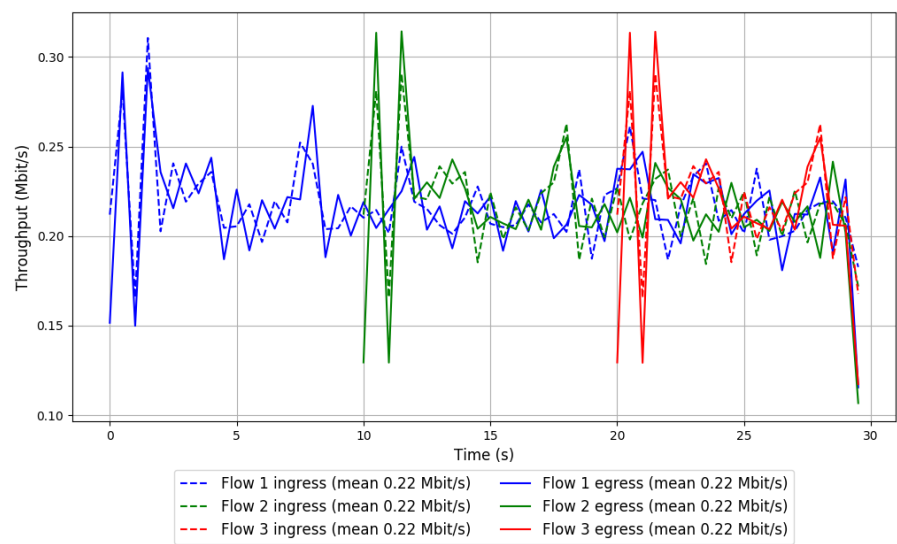
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.372 ms

Loss rate: 2.64%

Run 5: Report of SReAM — Data Link

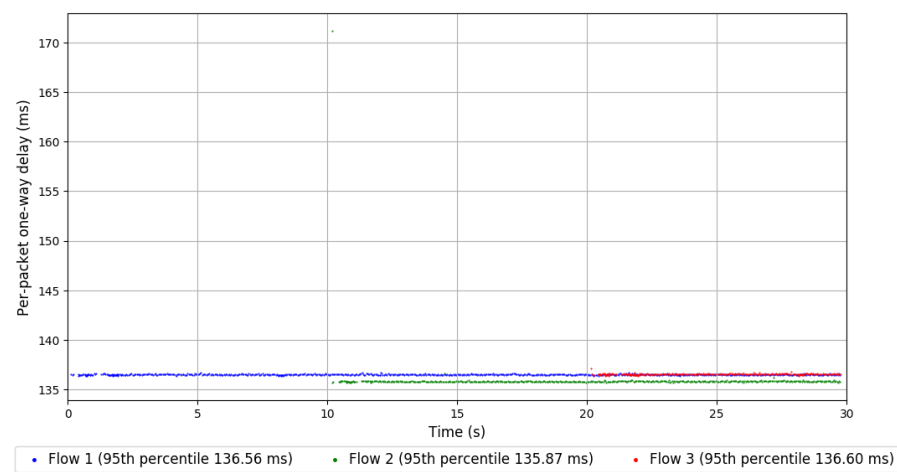
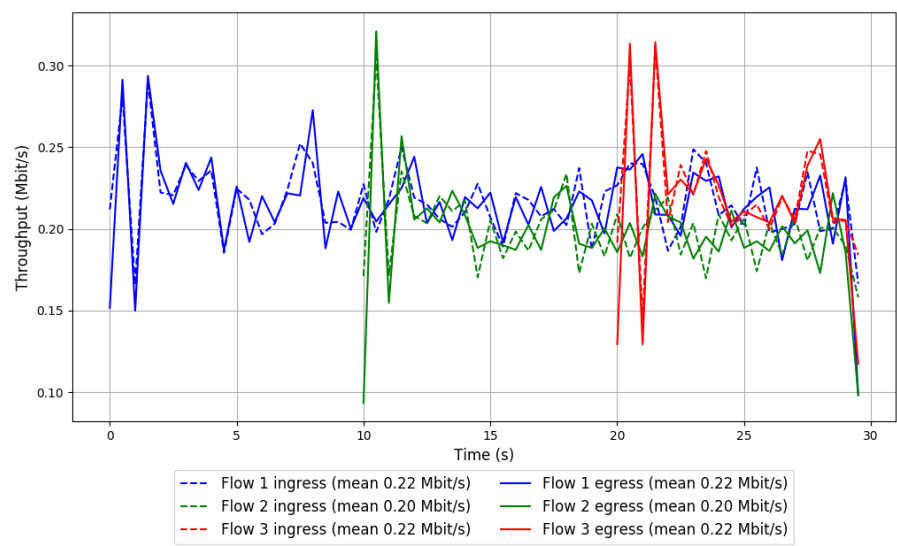


```
Run 6: Statistics of SCReAM

Start at: 2018-01-27 01:05:07
End at: 2018-01-27 01:05:37

# Below is generated by plot.py at 2018-01-27 05:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 136.564 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.562 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 135.867 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.605 ms
Loss rate: 2.63%
```

Run 6: Report of SReAM — Data Link

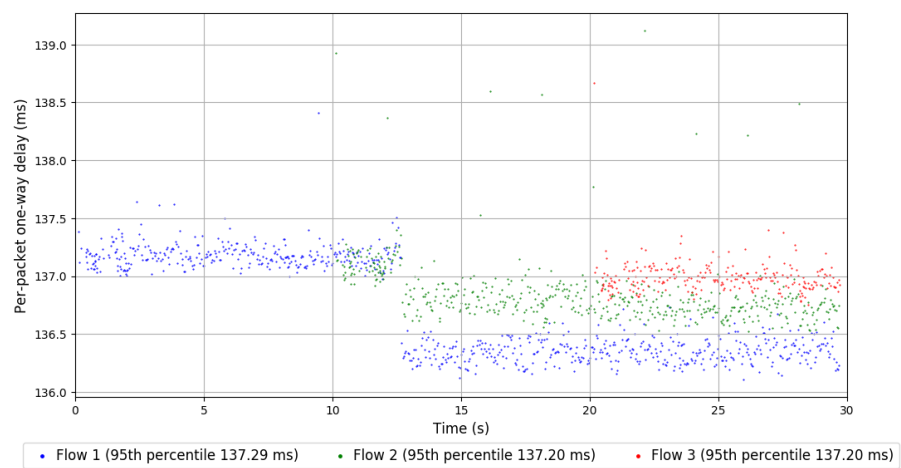
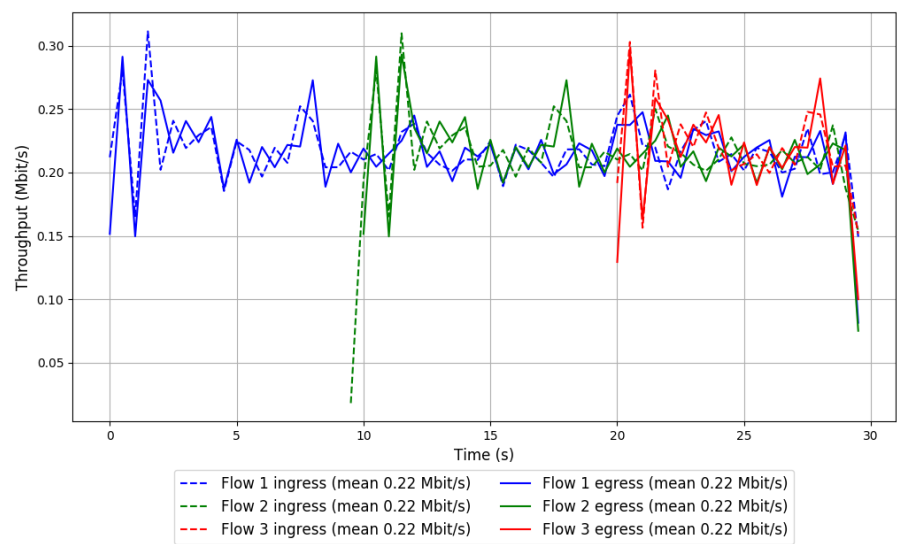


```
Run 7: Statistics of SCReAM

Start at: 2018-01-27 01:21:10
End at: 2018-01-27 01:21:40

# Below is generated by plot.py at 2018-01-27 05:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 137.256 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.286 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.197 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.200 ms
Loss rate: 2.32%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-27 01:37:19

End at: 2018-01-27 01:37:49

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 163.157 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.897 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 163.200 ms

Loss rate: 1.13%

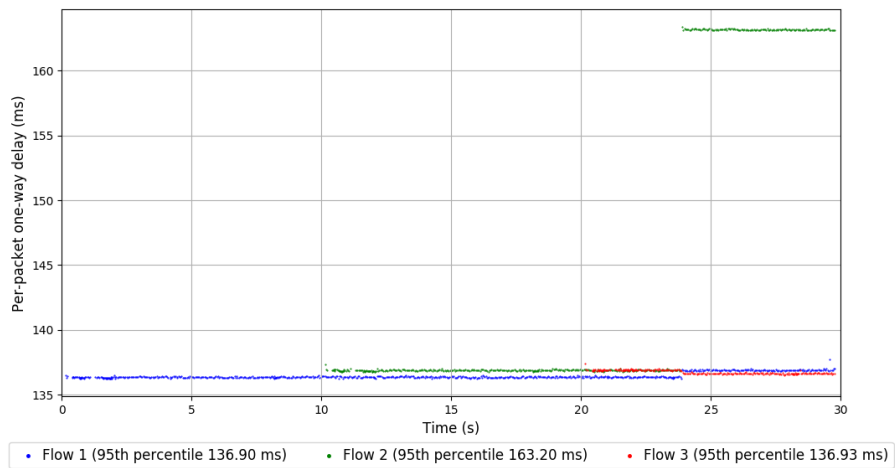
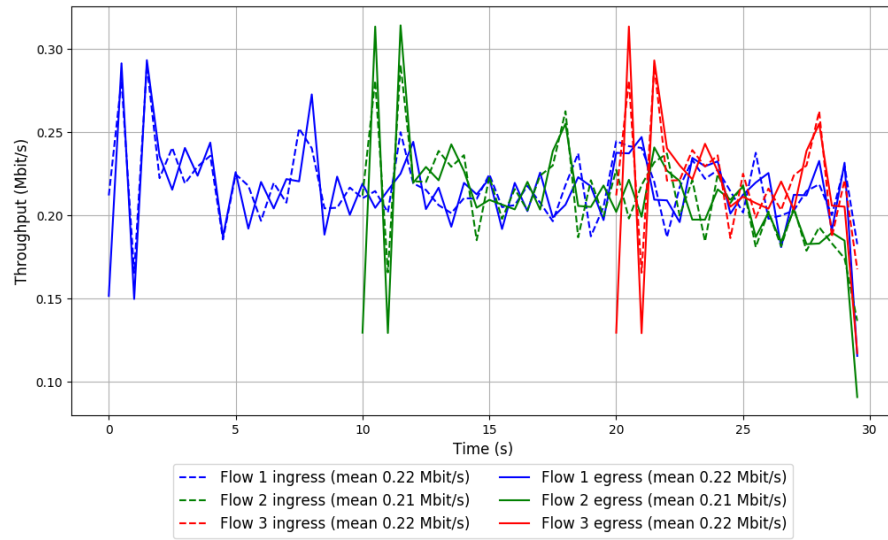
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.927 ms

Loss rate: 2.63%

Run 8: Report of SCRaM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-27 01:52:50

End at: 2018-01-27 01:53:20

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 163.297 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.180 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.120 ms

Loss rate: 1.42%

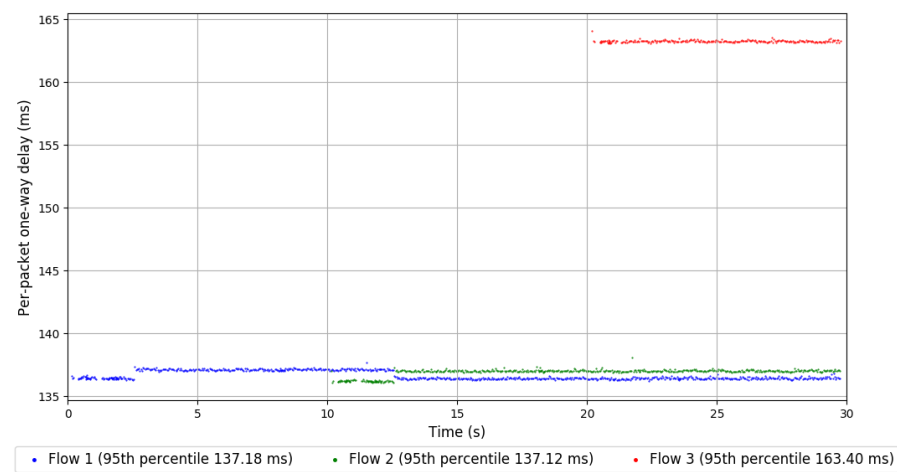
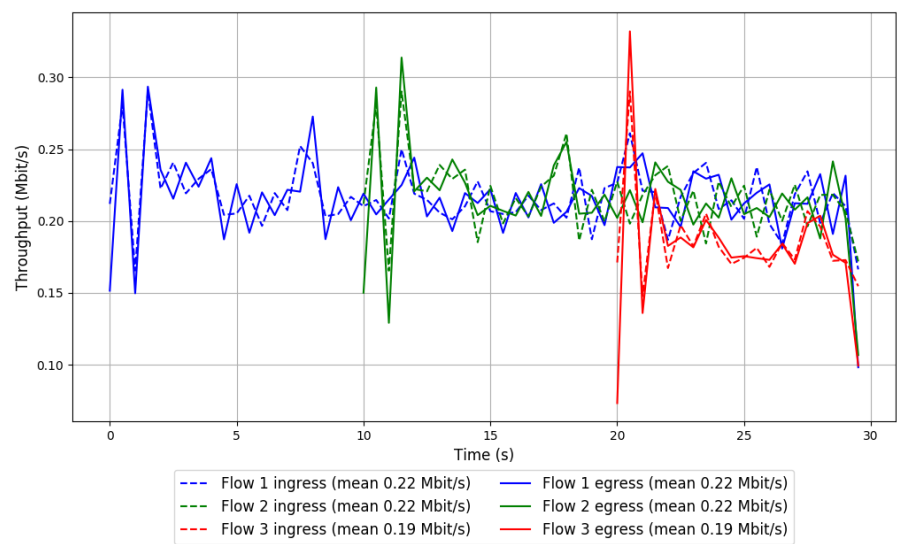
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 163.396 ms

Loss rate: 3.02%

Run 9: Report of SCSReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-01-27 02:08:08

End at: 2018-01-27 02:08:38

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 163.247 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.964 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.467 ms

Loss rate: 1.42%

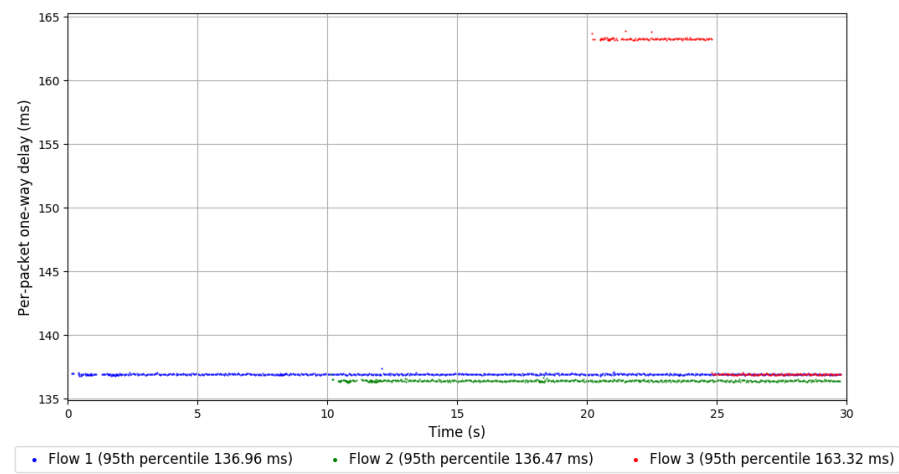
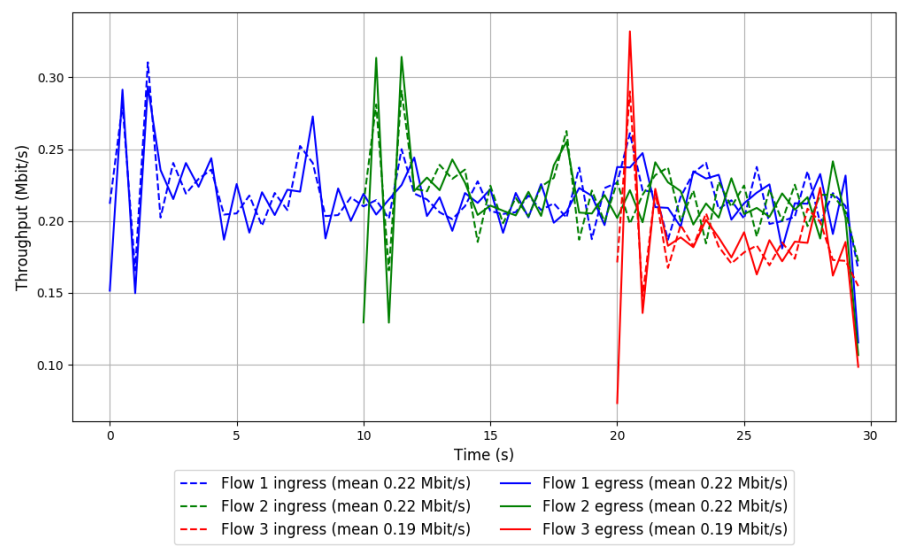
-- Flow 3:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 163.320 ms

Loss rate: 2.62%

Run 10: Report of SCReAM — Data Link

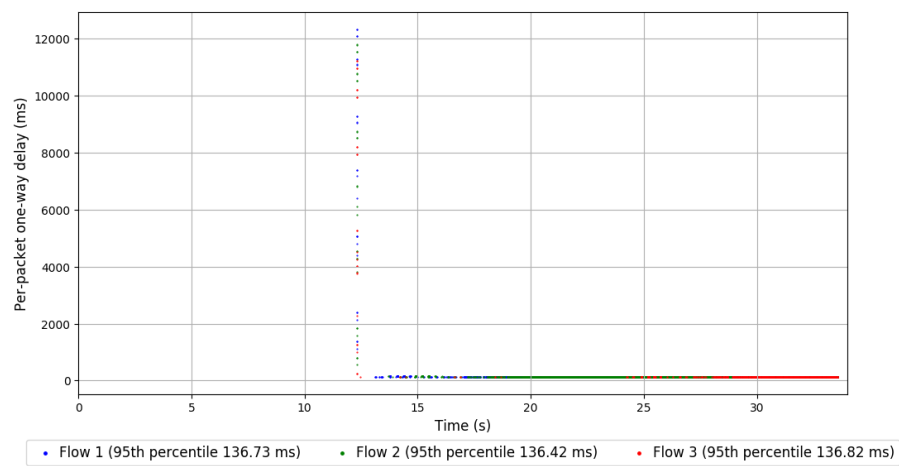
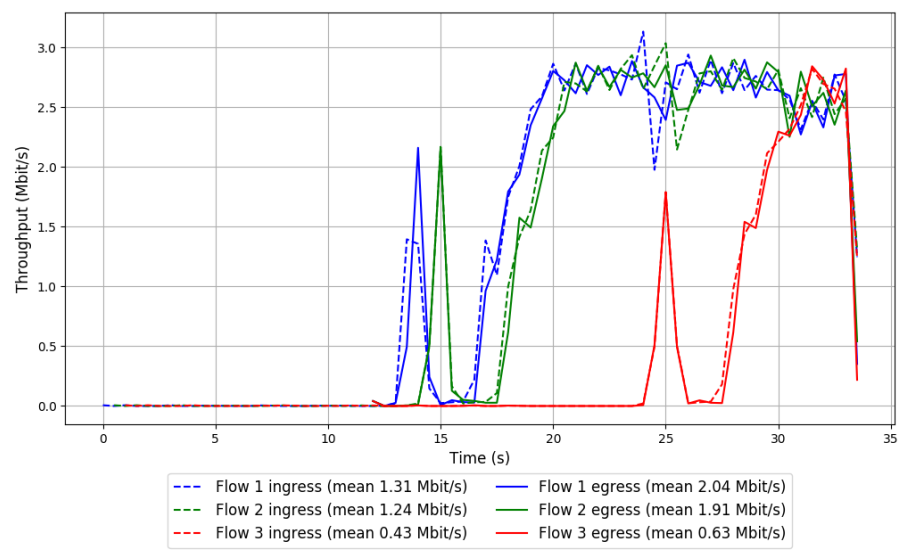


Run 1: Statistics of WebRTC media

Start at: 2018-01-26 23:48:53

End at: 2018-01-26 23:49:23

Run 1: Report of WebRTC media — Data Link

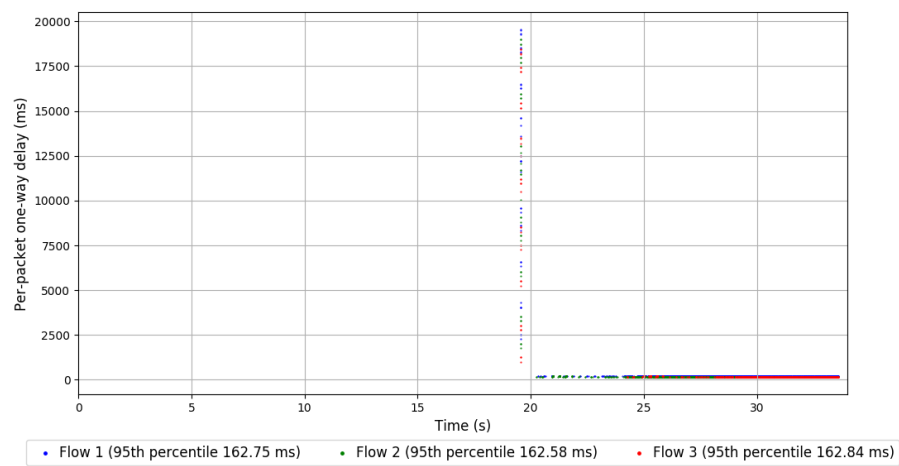
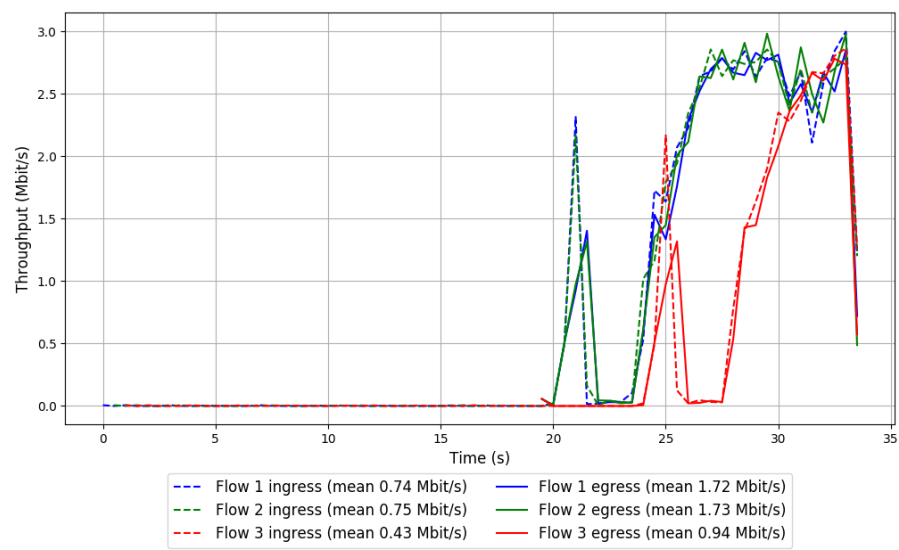


Run 2: Statistics of WebRTC media

Start at: 2018-01-27 00:04:30

End at: 2018-01-27 00:05:00

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-27 00:20:24

End at: 2018-01-27 00:20:54

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 136.765 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 136.786 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 136.611 ms

Loss rate: 1.74%

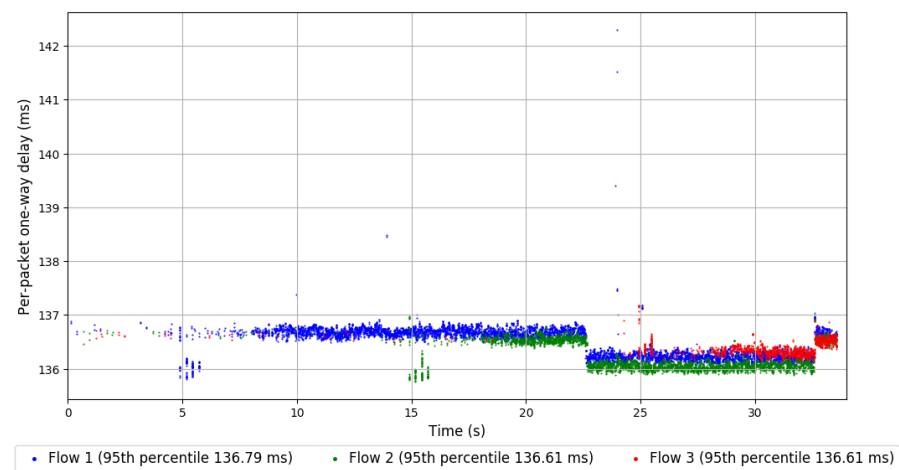
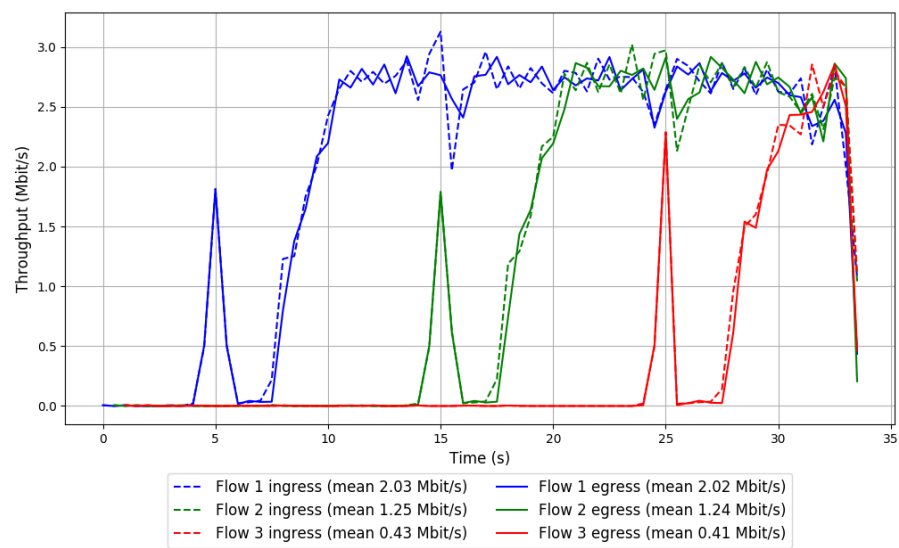
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.608 ms

Loss rate: 5.30%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-27 00:36:51

End at: 2018-01-27 00:37:21

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 136.552 ms

Loss rate: 1.78%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 136.564 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 136.068 ms

Loss rate: 1.82%

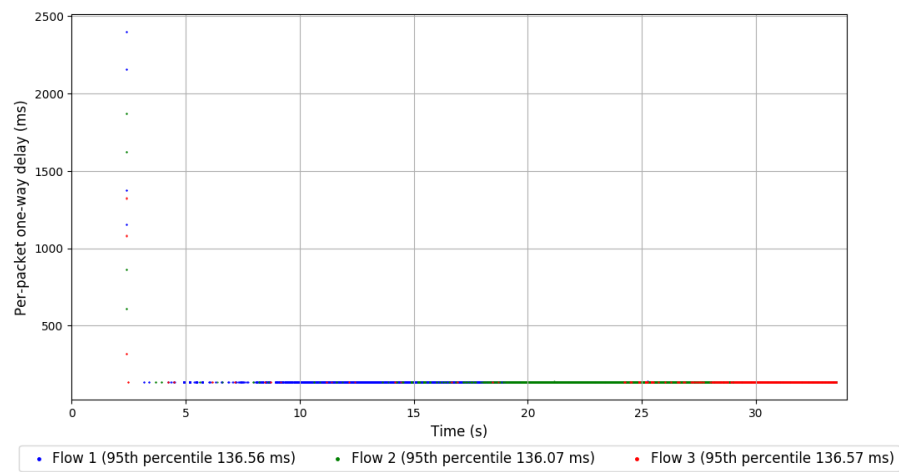
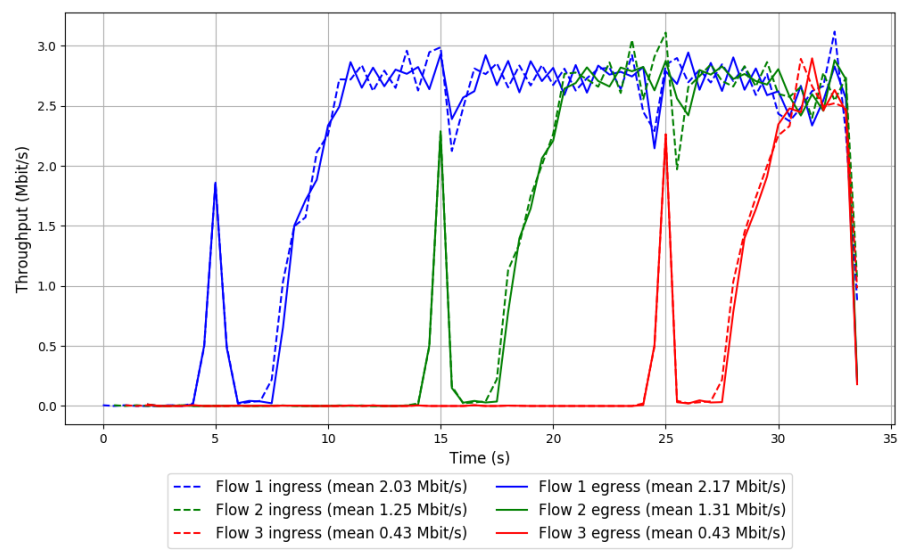
-- Flow 3:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.575 ms

Loss rate: 5.04%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-27 00:53:31

End at: 2018-01-27 00:54:01

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.64 Mbit/s

95th percentile per-packet one-way delay: 136.949 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 136.973 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 136.809 ms

Loss rate: 1.92%

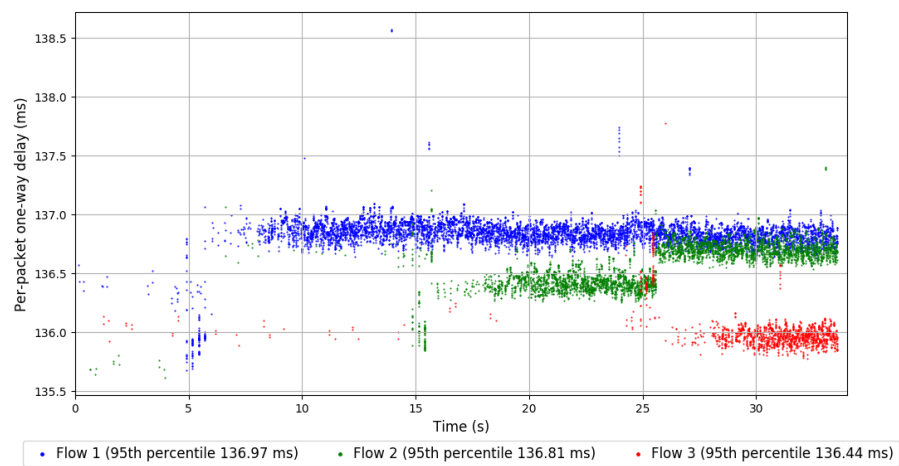
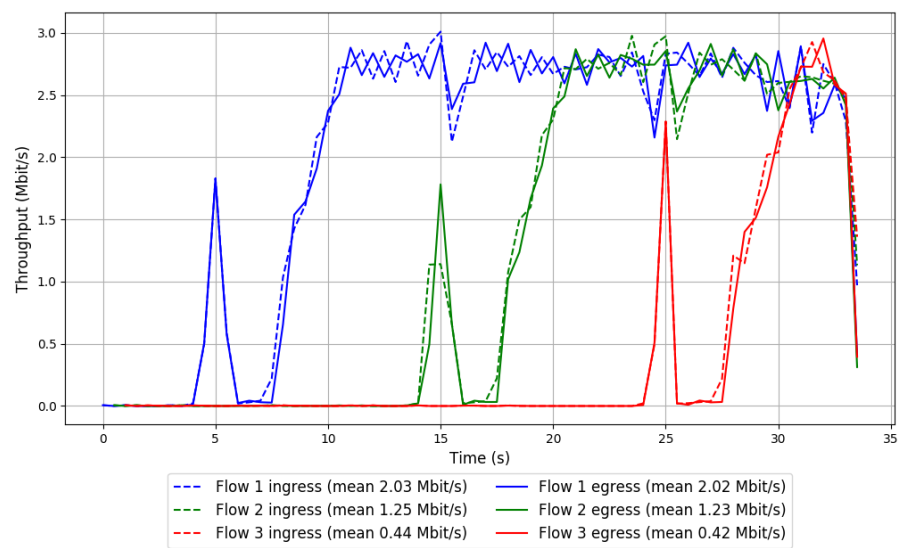
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.444 ms

Loss rate: 5.52%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-27 01:09:52

End at: 2018-01-27 01:10:22

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.38 Mbit/s

95th percentile per-packet one-way delay: 137.413 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 137.106 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 137.504 ms

Loss rate: 2.05%

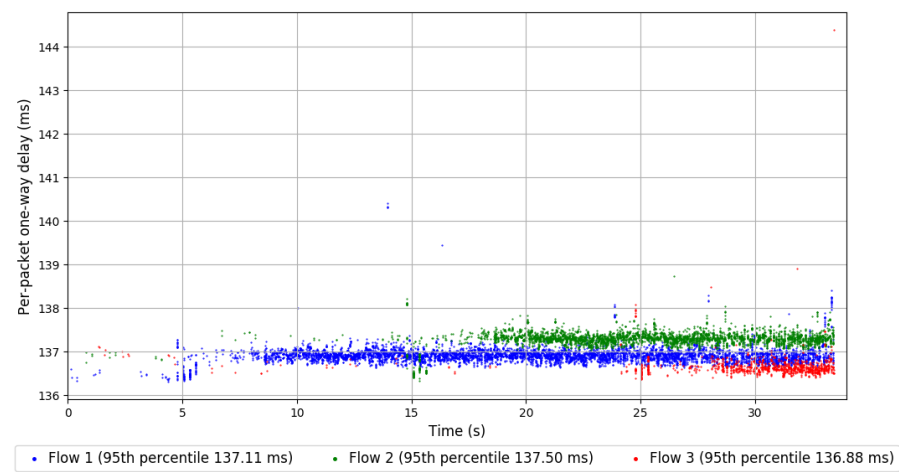
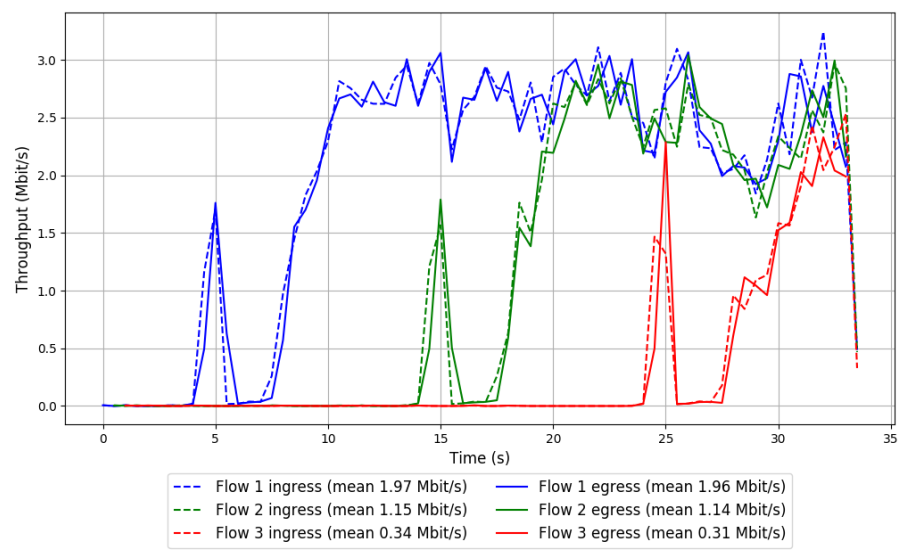
-- Flow 3:

Average throughput: 0.31 Mbit/s

95th percentile per-packet one-way delay: 136.875 ms

Loss rate: 7.69%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-27 01:25:39

End at: 2018-01-27 01:26:09

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 136.854 ms

Loss rate: 1.91%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 136.762 ms

Loss rate: 2.15%

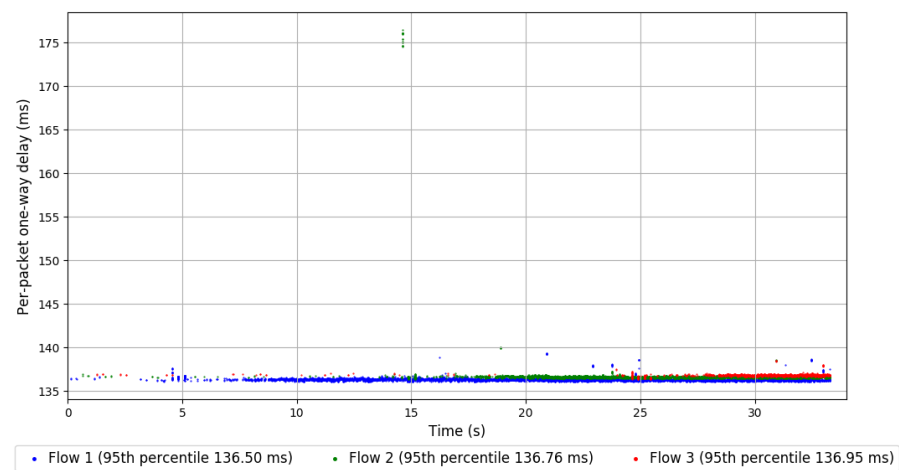
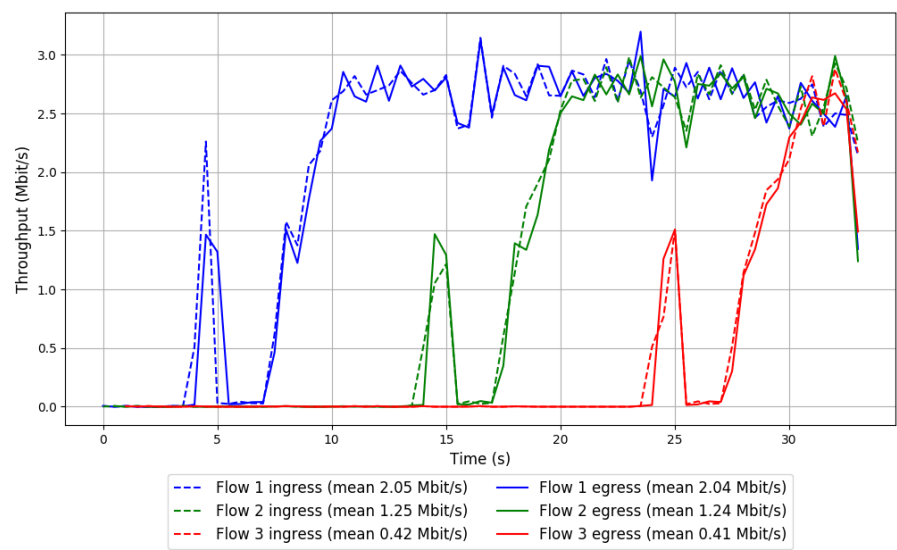
-- Flow 3:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.954 ms

Loss rate: 5.16%

Run 7: Report of WebRTC media — Data Link

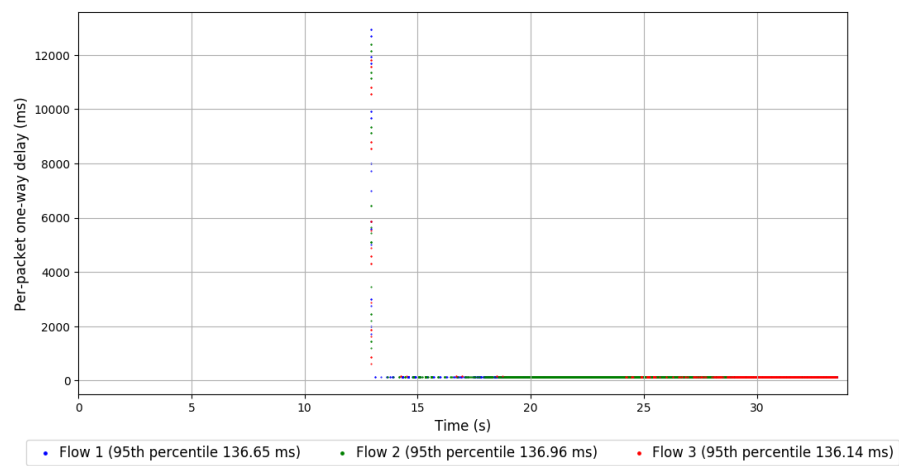
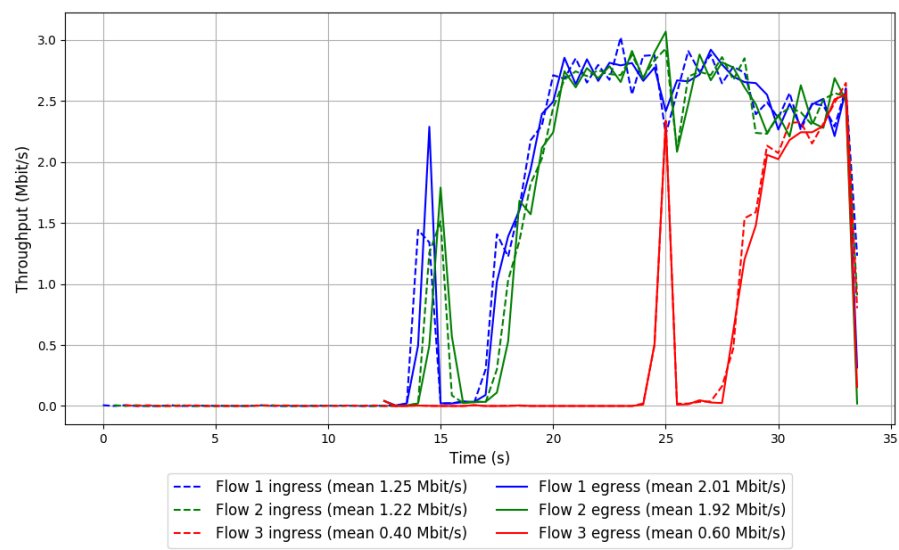


Run 8: Statistics of WebRTC media

Start at: 2018-01-27 01:41:54

End at: 2018-01-27 01:42:24

Run 8: Report of WebRTC media — Data Link

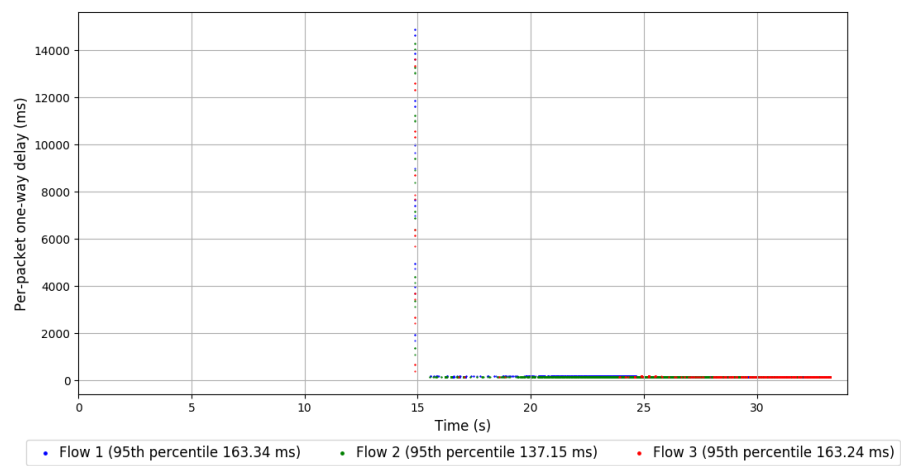
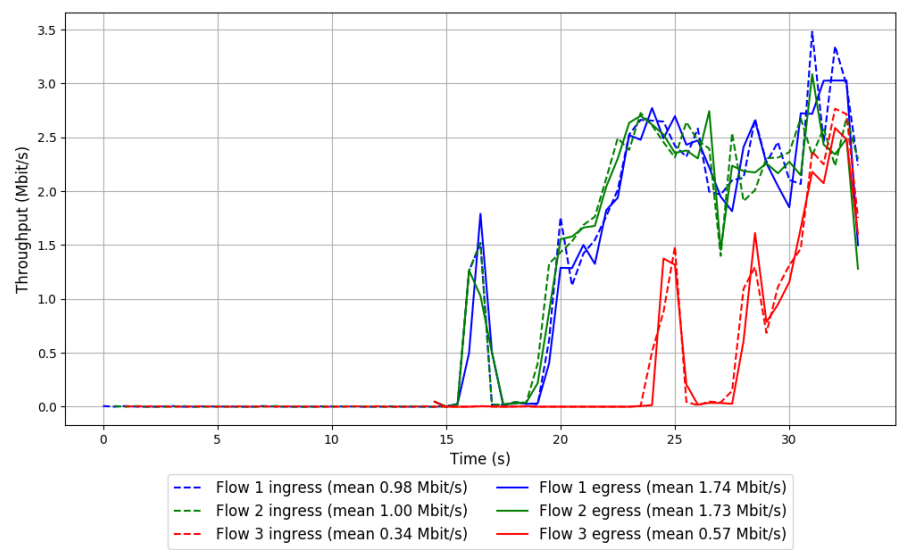


Run 9: Statistics of WebRTC media

Start at: 2018-01-27 01:57:21

End at: 2018-01-27 01:57:51

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-27 02:12:42

End at: 2018-01-27 02:13:12

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.63 Mbit/s

95th percentile per-packet one-way delay: 136.960 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 136.969 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 1.22 Mbit/s

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

Loss rate: 1.99%

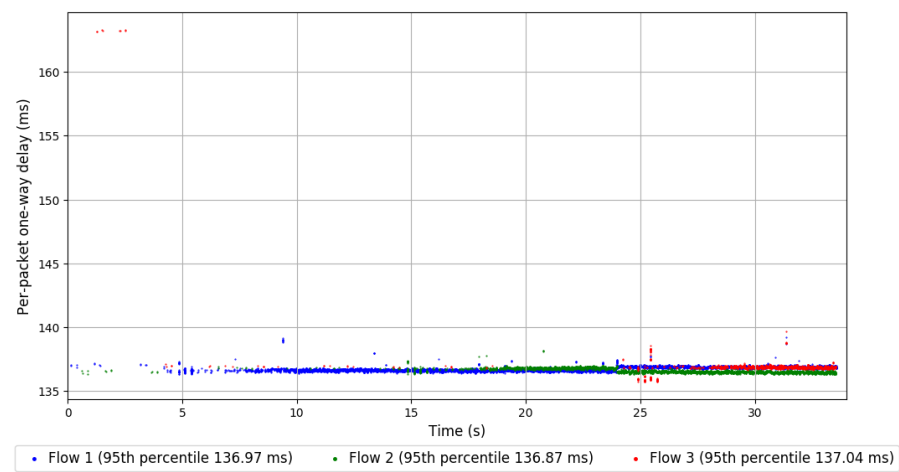
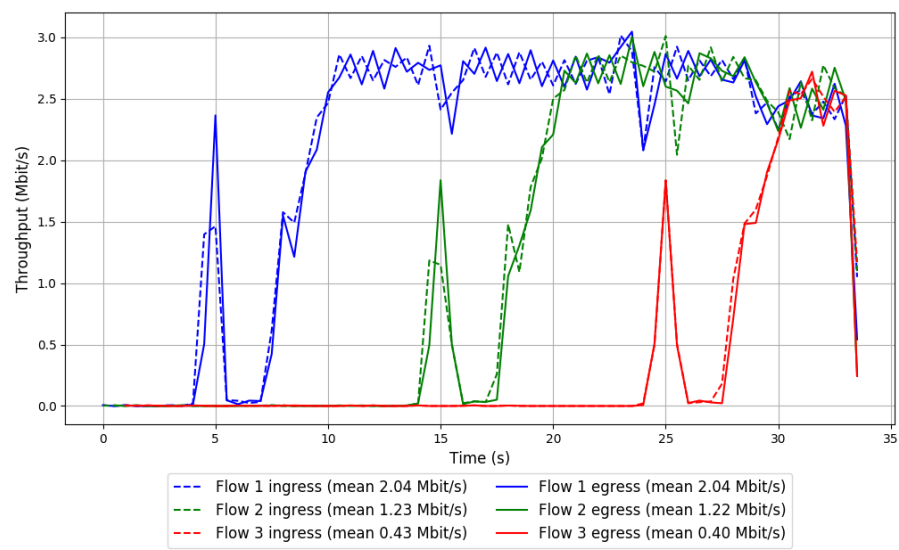
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.037 ms

Loss rate: 5.85%

Run 10: Report of WebRTC media — Data Link

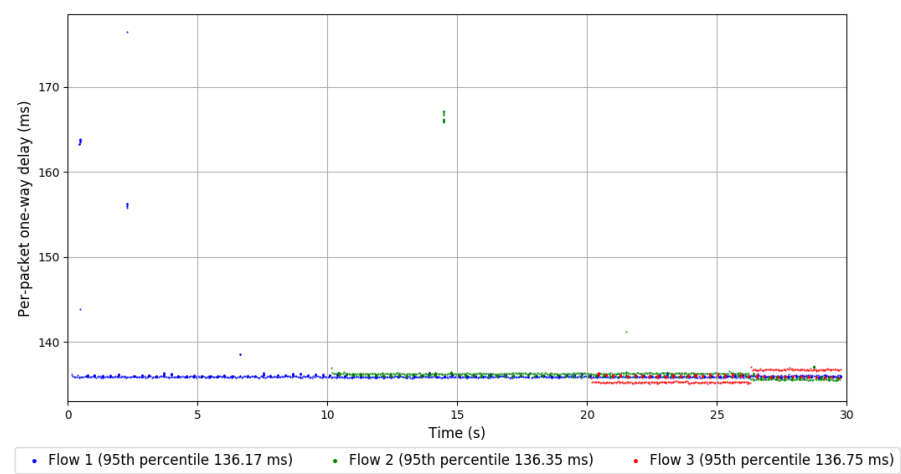
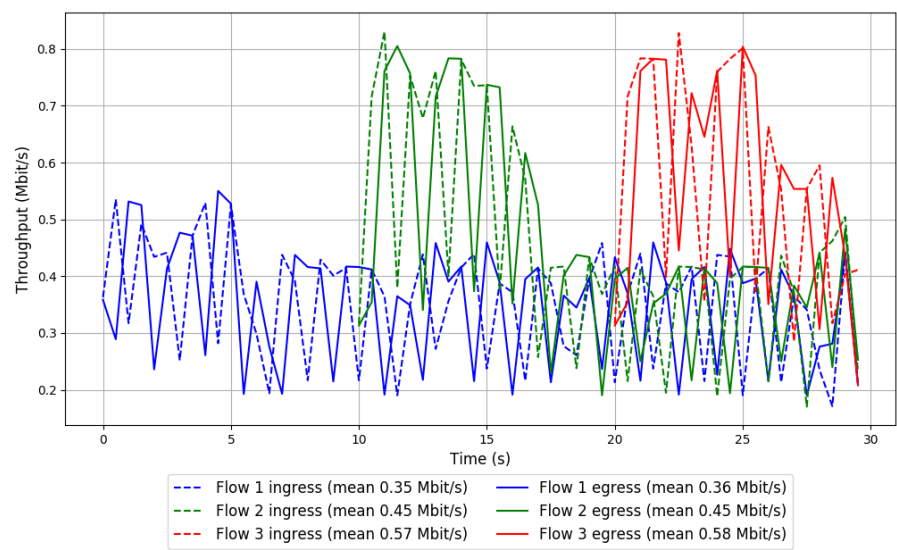


```
Run 1: Statistics of Sprout

Start at: 2018-01-26 23:39:06
End at: 2018-01-26 23:39:36

# Below is generated by plot.py at 2018-01-27 05:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 136.355 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.172 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 136.350 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 136.745 ms
Loss rate: 1.83%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 23:55:28

End at: 2018-01-26 23:55:58

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 163.000 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 163.021 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 162.677 ms

Loss rate: 1.34%

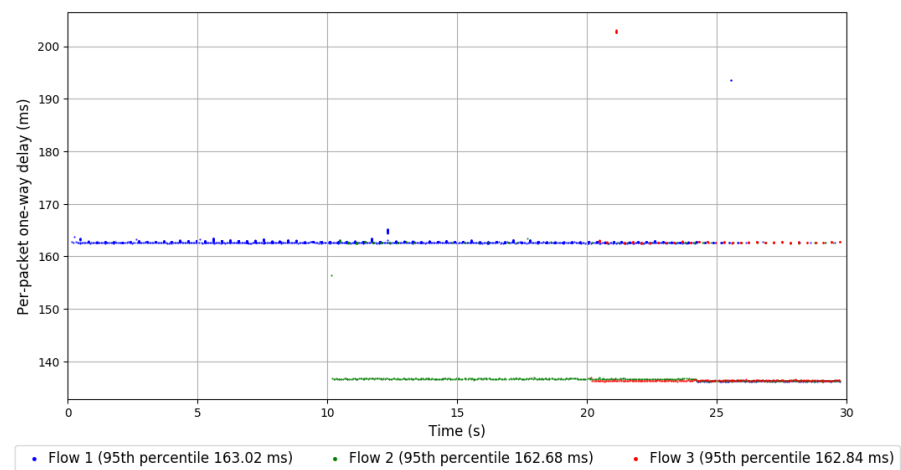
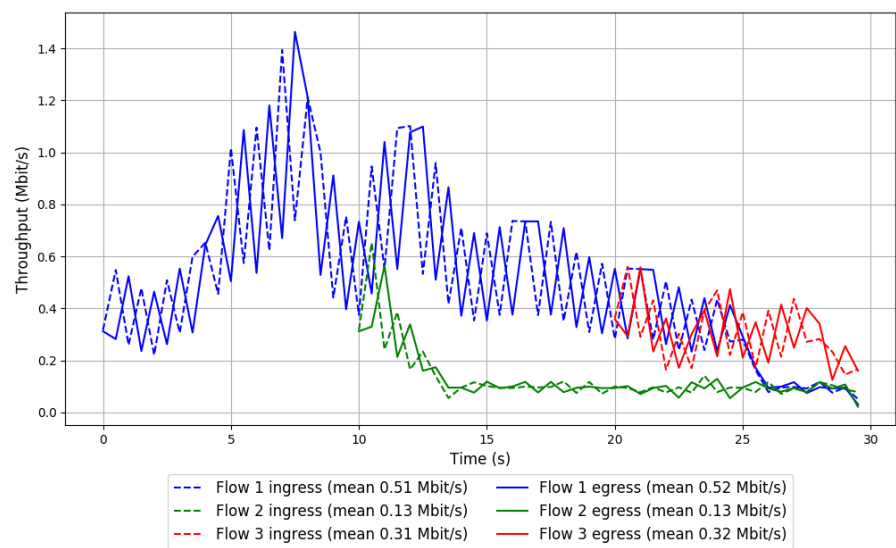
-- Flow 3:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 162.845 ms

Loss rate: 0.16%

Run 2: Report of Sprout — Data Link

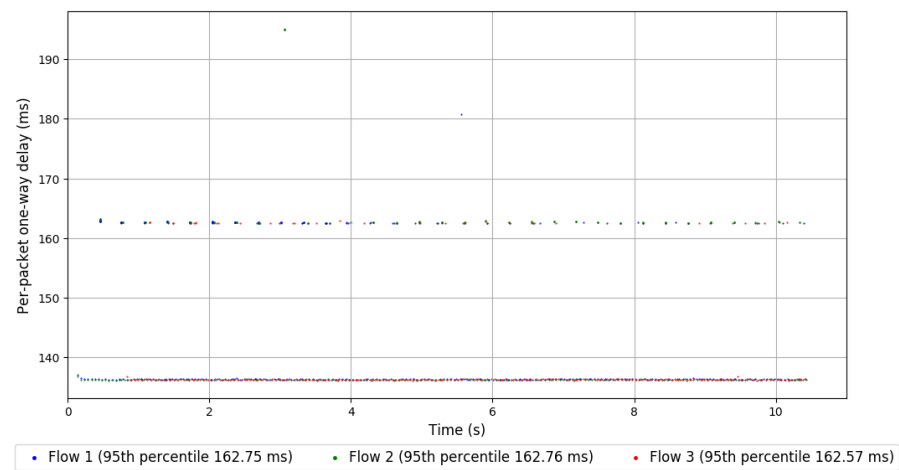
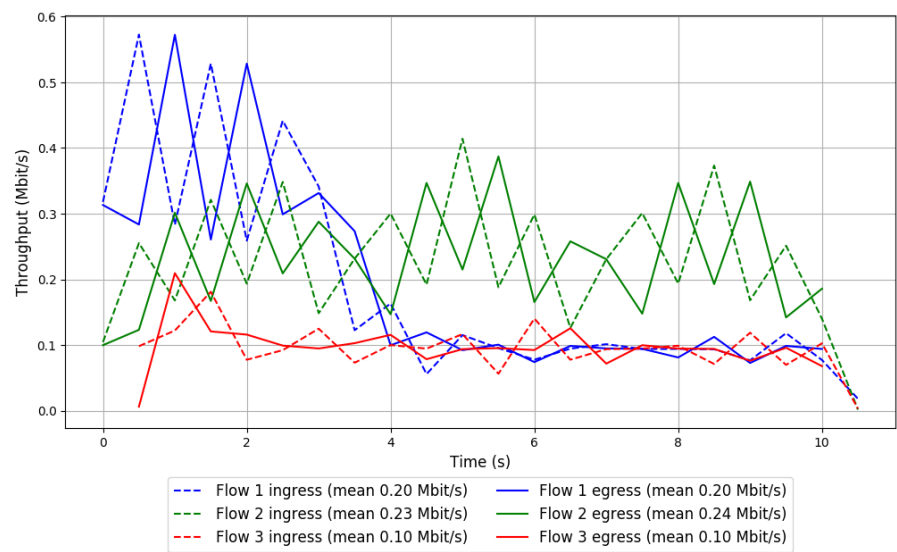


Run 3: Statistics of Sprout

Start at: 2018-01-27 00:10:34

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

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-27 00:26:56

End at: 2018-01-27 00:27:26

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.82 Mbit/s

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

Loss rate: 1.14%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.719 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 0.30%

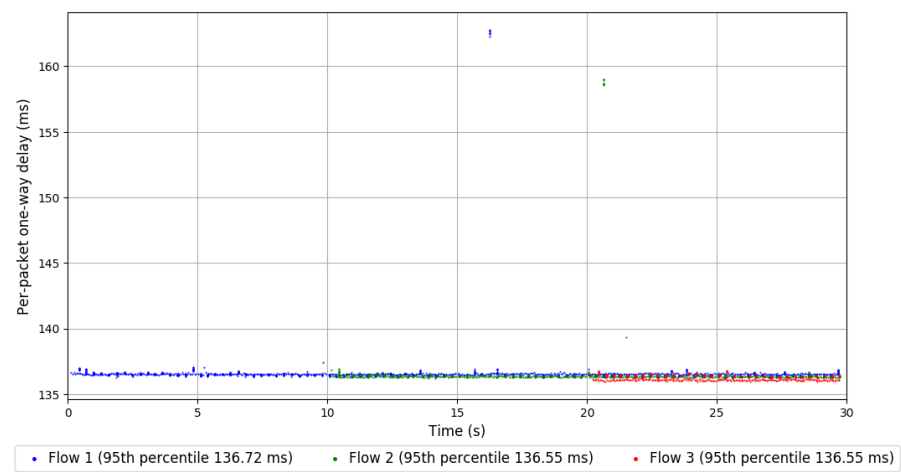
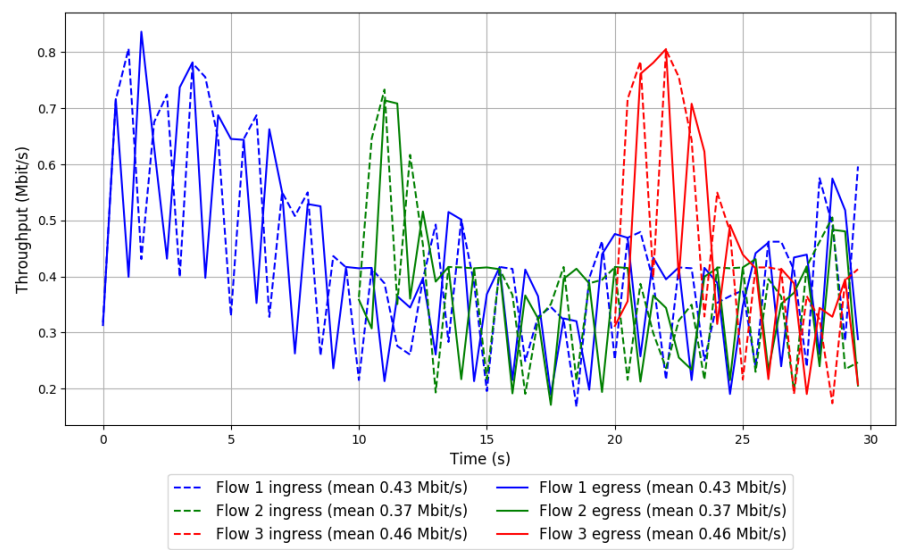
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.549 ms

Loss rate: 2.30%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-27 00:43:31

End at: 2018-01-27 00:44:01

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 136.300 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.363 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 136.185 ms

Loss rate: 1.17%

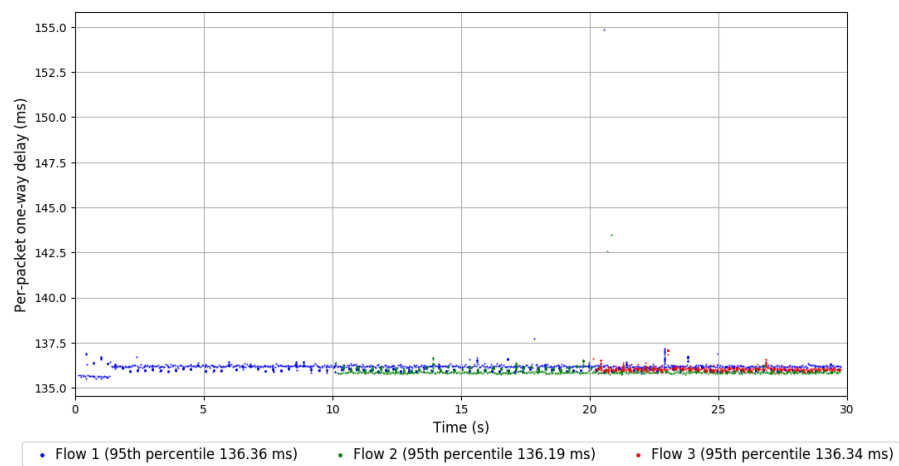
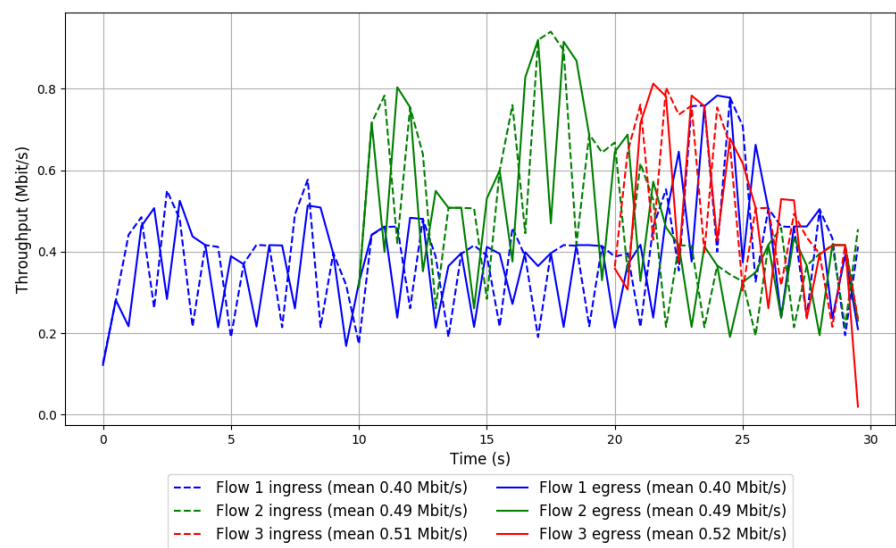
-- Flow 3:

Average throughput: 0.52 Mbit/s

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

Loss rate: 2.17%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-27 01:00:13

End at: 2018-01-27 01:00:43

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 136.671 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.627 ms

Loss rate: 1.30%

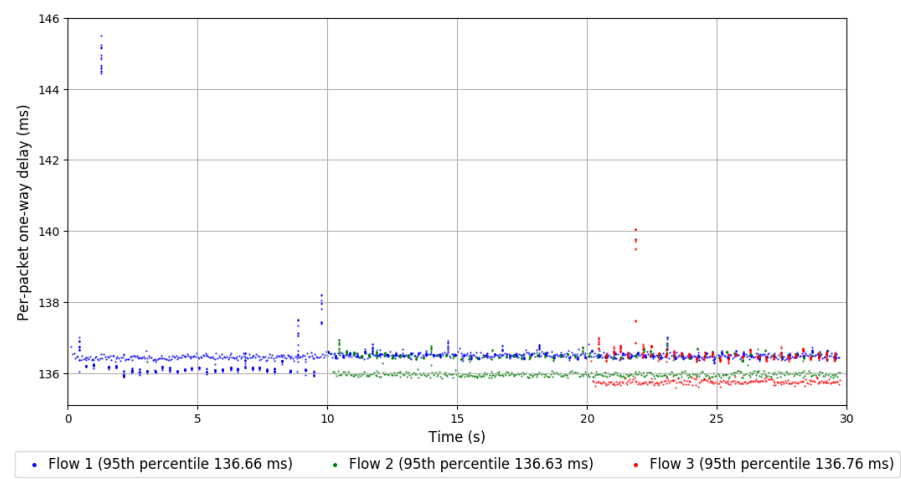
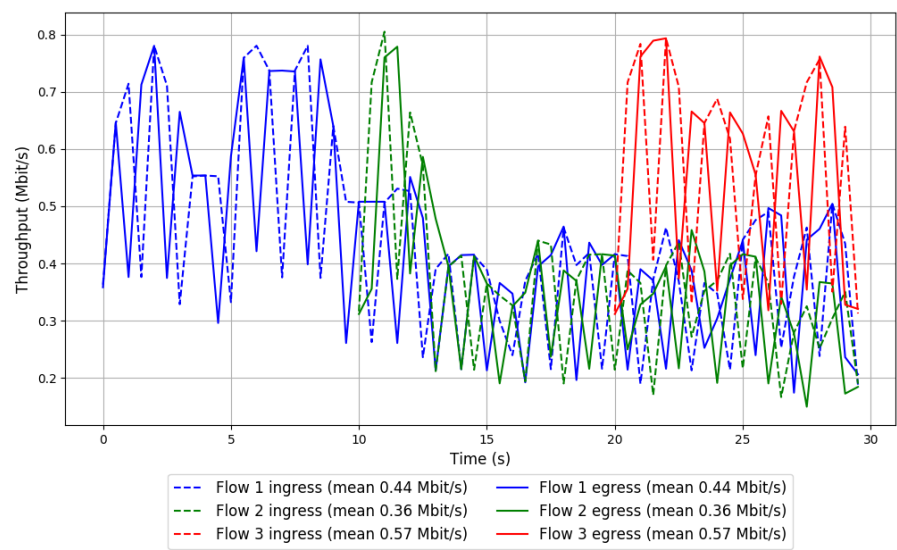
-- Flow 3:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 136.756 ms

Loss rate: 2.73%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-27 01:16:17

End at: 2018-01-27 01:16:47

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.74 Mbit/s

95th percentile per-packet one-way delay: 137.039 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.999 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.791 ms

Loss rate: 1.62%

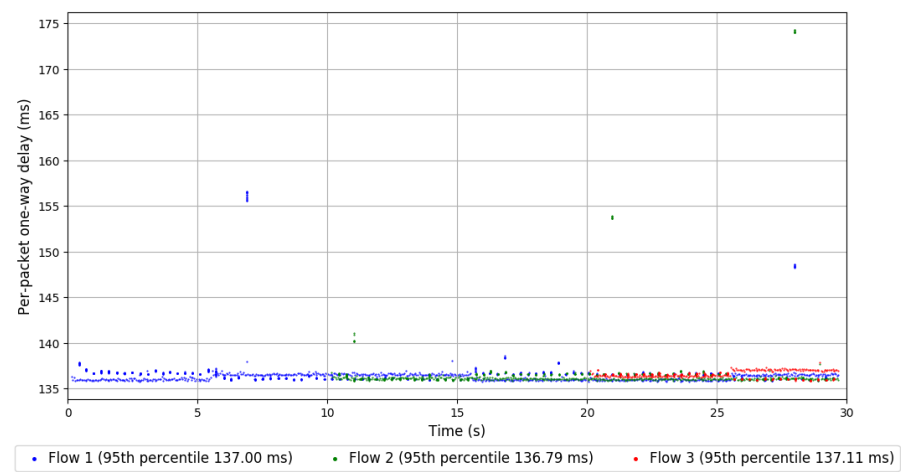
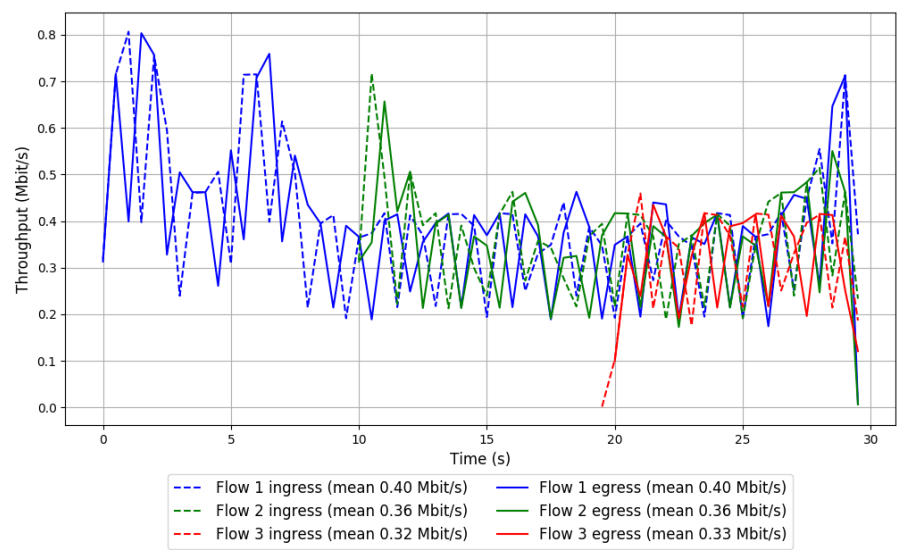
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 137.110 ms

Loss rate: 2.89%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-27 01:32:14

End at: 2018-01-27 01:32:44

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 163.130 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 162.866 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.654 ms

Loss rate: 1.33%

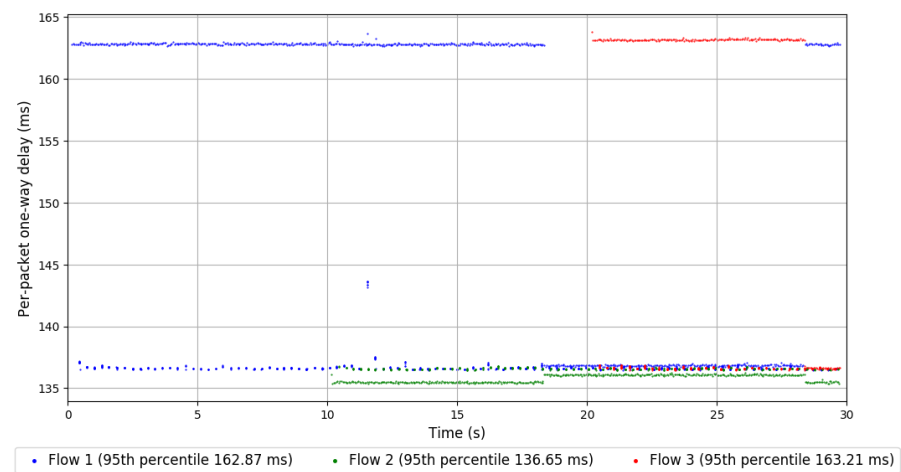
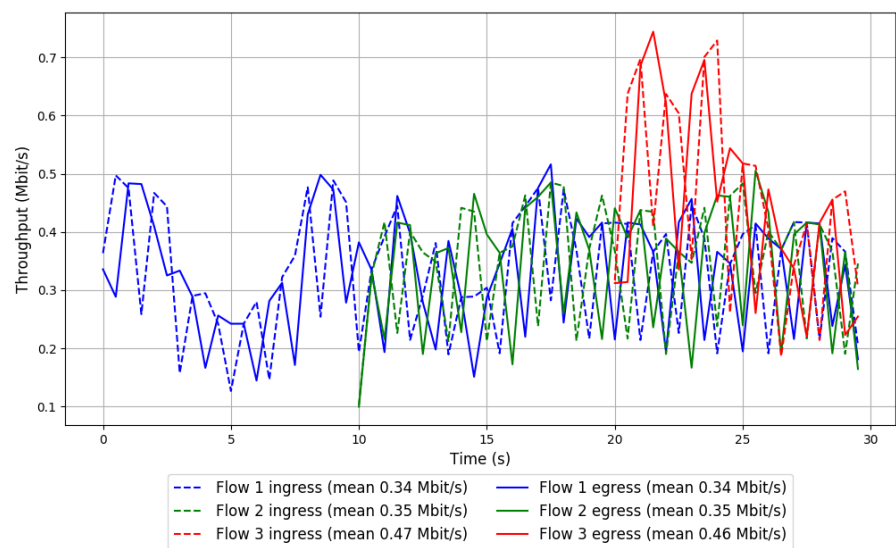
-- Flow 3:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 163.210 ms

Loss rate: 3.28%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-27 01:48:20

End at: 2018-01-27 01:48:50

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 163.477 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 860.930 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 163.308 ms

Loss rate: 1.09%

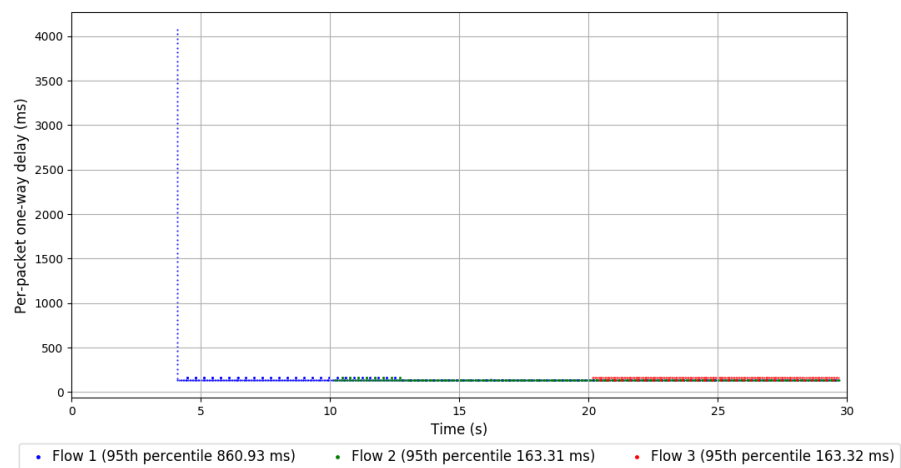
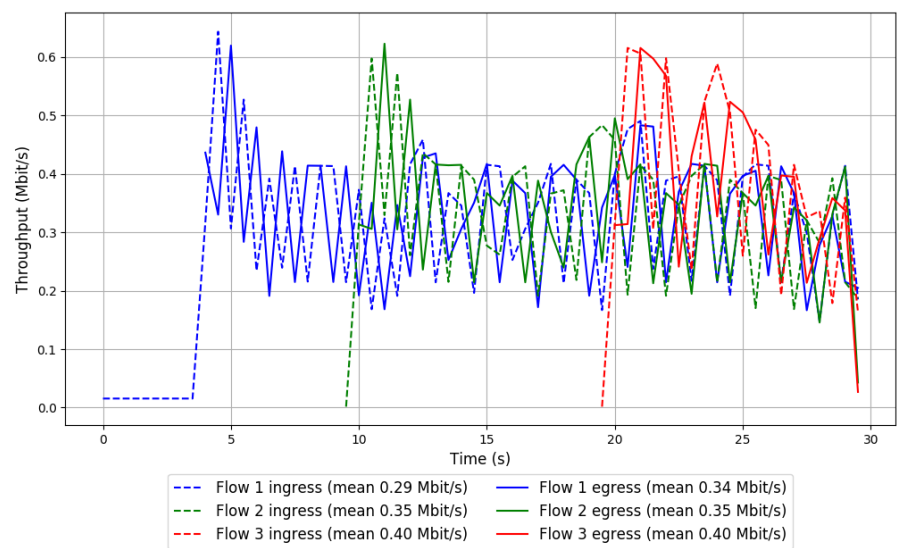
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 163.318 ms

Loss rate: 2.09%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-27 02:03:26

End at: 2018-01-27 02:03:56

Below is generated by plot.py at 2018-01-27 05:17:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 163.573 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 163.620 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 163.419 ms

Loss rate: 0.84%

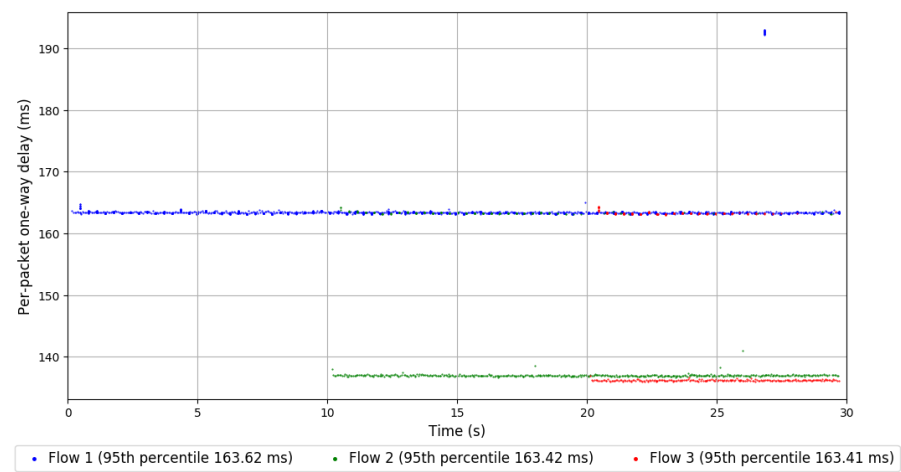
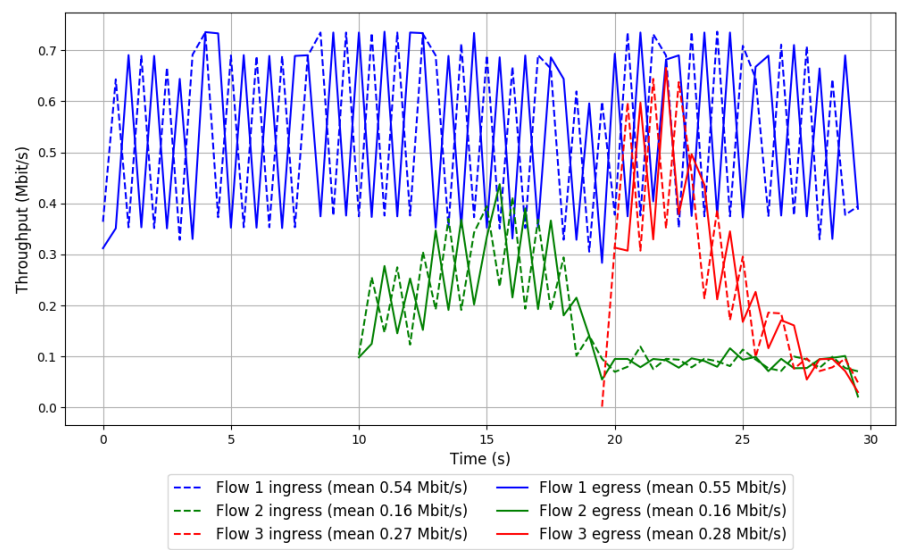
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 163.415 ms

Loss rate: 0.89%

Run 10: Report of Sprout — Data Link

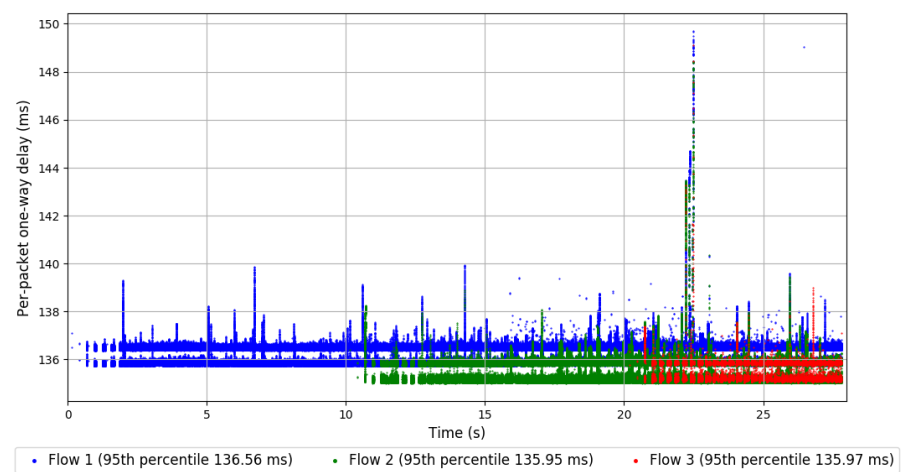
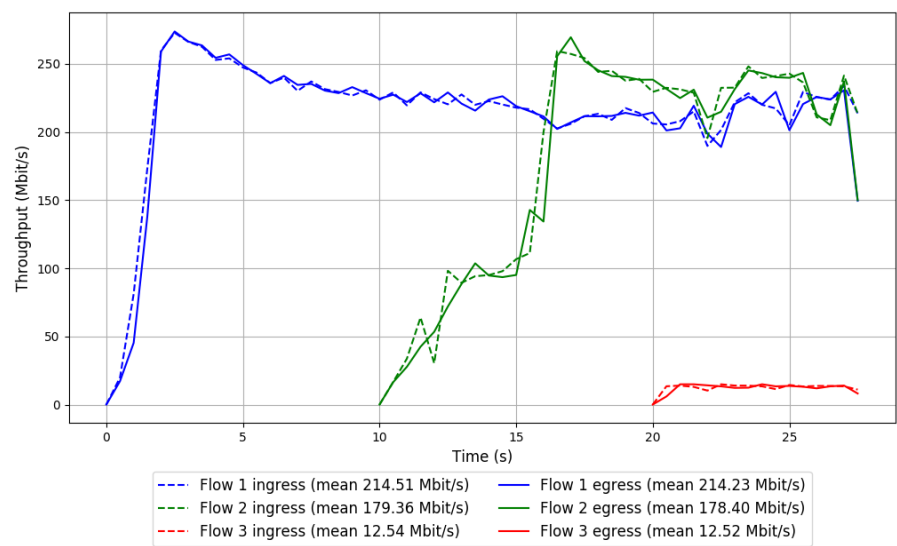


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 23:39:55
End at: 2018-01-26 23:40:25

# Below is generated by plot.py at 2018-01-27 05:24:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.57 Mbit/s
95th percentile per-packet one-way delay: 136.544 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 214.23 Mbit/s
95th percentile per-packet one-way delay: 136.563 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 178.40 Mbit/s
95th percentile per-packet one-way delay: 135.946 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 135.967 ms
Loss rate: 3.58%
```


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

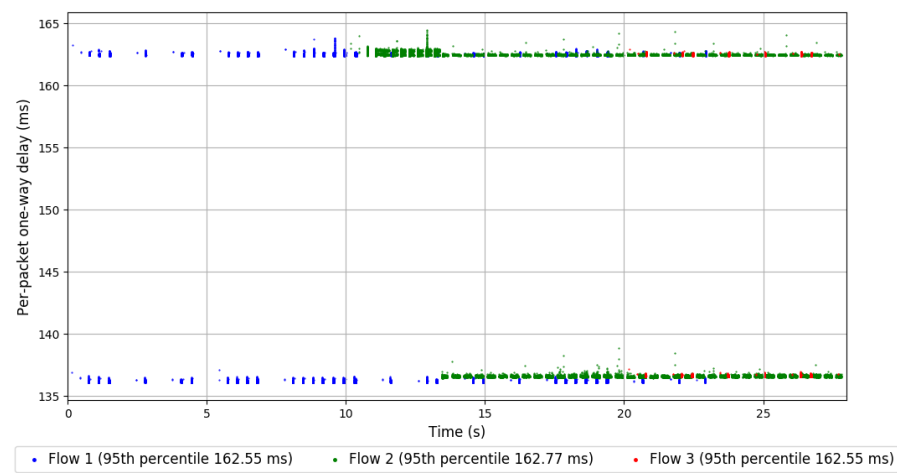
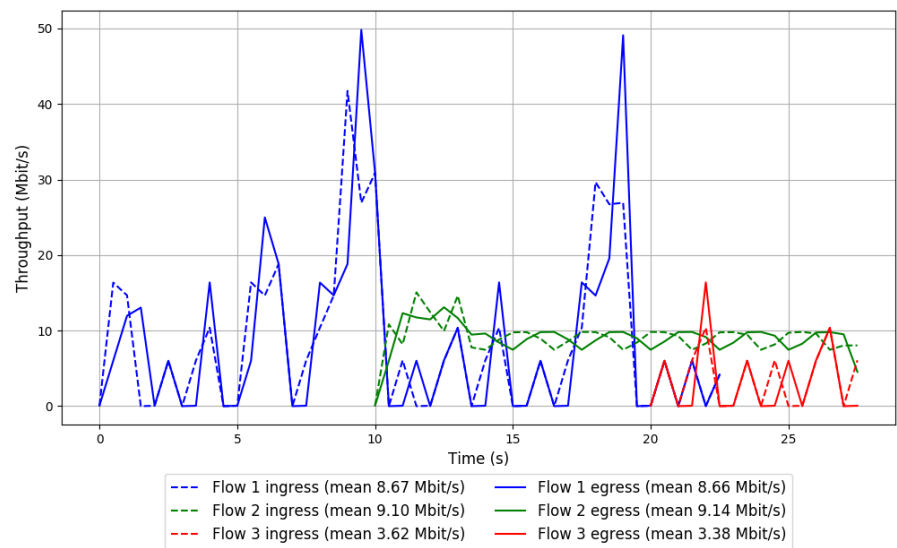


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 23:56:17
End at: 2018-01-26 23:56:47

# Below is generated by plot.py at 2018-01-27 05:24:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.89 Mbit/s
95th percentile per-packet one-way delay: 162.639 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 162.547 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.14 Mbit/s
95th percentile per-packet one-way delay: 162.770 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 162.547 ms
Loss rate: 10.52%
```

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

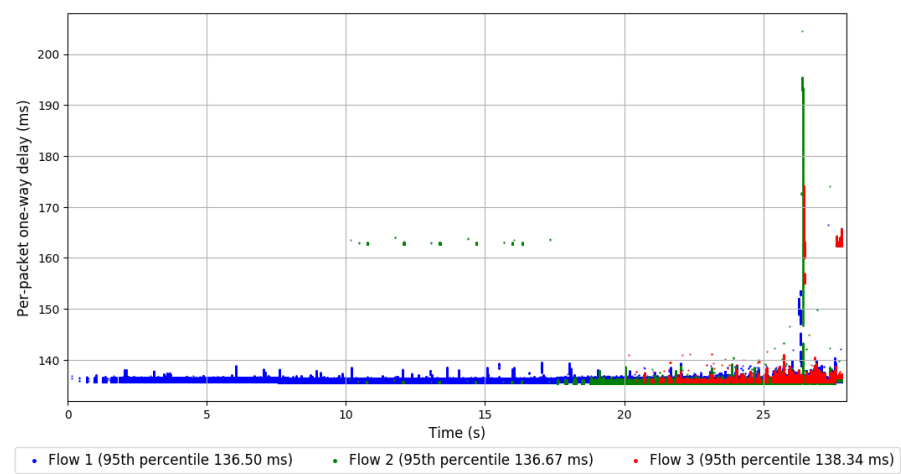
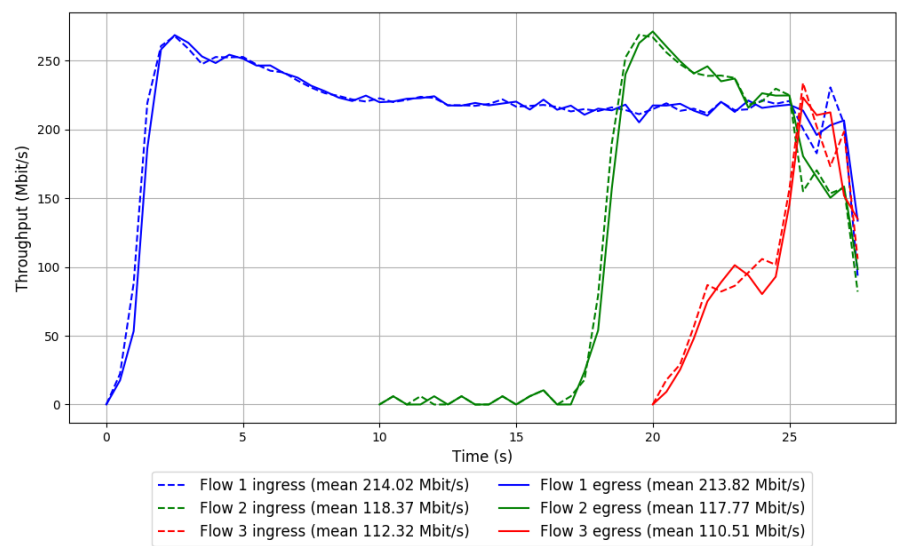


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-27 00:11:23
End at: 2018-01-27 00:11:53

# Below is generated by plot.py at 2018-01-27 05:24:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.58 Mbit/s
95th percentile per-packet one-way delay: 136.650 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 213.82 Mbit/s
95th percentile per-packet one-way delay: 136.495 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 117.77 Mbit/s
95th percentile per-packet one-way delay: 136.670 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 110.51 Mbit/s
95th percentile per-packet one-way delay: 138.336 ms
Loss rate: 2.27%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-27 00:27:45

End at: 2018-01-27 00:28:15

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.98 Mbit/s

95th percentile per-packet one-way delay: 137.377 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 206.30 Mbit/s

95th percentile per-packet one-way delay: 137.306 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 192.11 Mbit/s

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

Loss rate: 1.31%

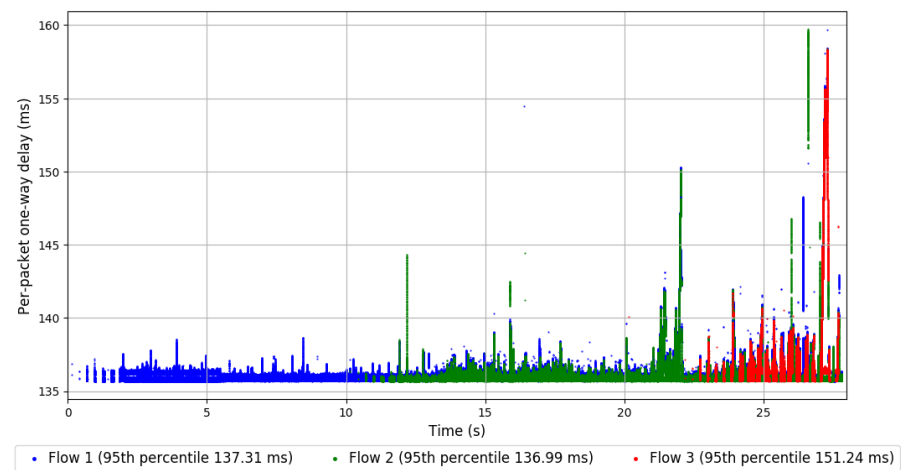
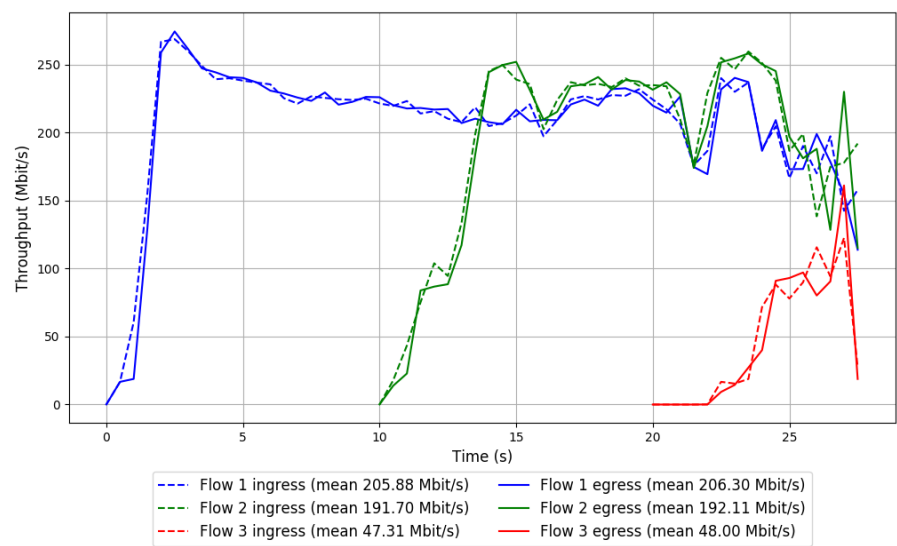
-- Flow 3:

Average throughput: 48.00 Mbit/s

95th percentile per-packet one-way delay: 151.236 ms

Loss rate: 2.15%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-27 00:44:20

End at: 2018-01-27 00:44:50

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 327.91 Mbit/s

95th percentile per-packet one-way delay: 137.422 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 203.46 Mbit/s

95th percentile per-packet one-way delay: 136.661 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 189.71 Mbit/s

95th percentile per-packet one-way delay: 139.513 ms

Loss rate: 1.03%

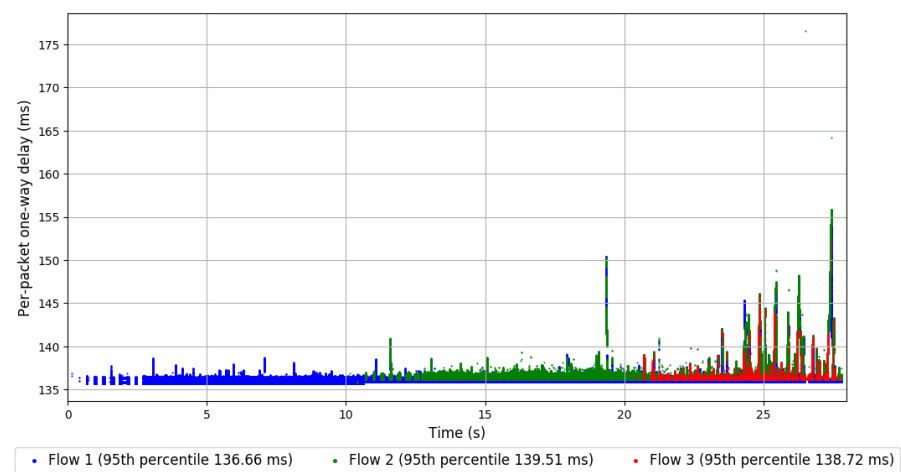
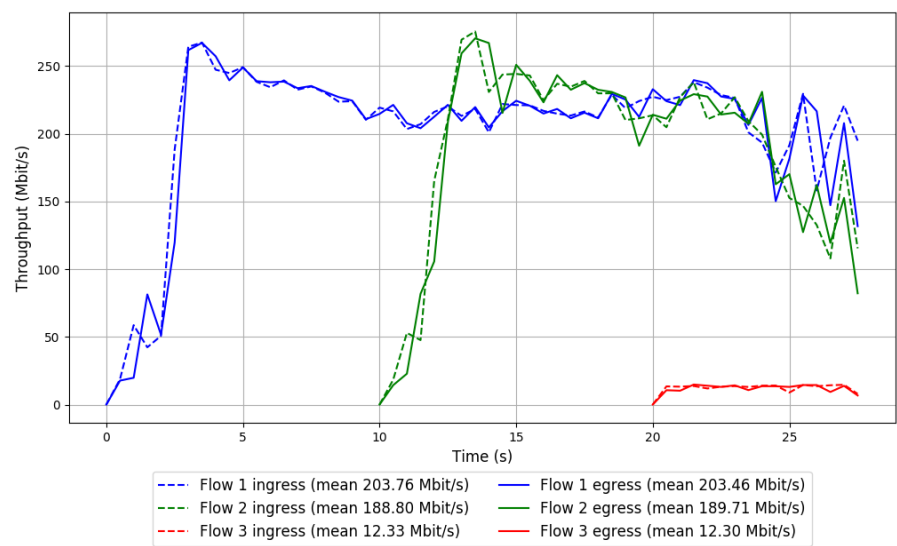
-- Flow 3:

Average throughput: 12.30 Mbit/s

95th percentile per-packet one-way delay: 138.720 ms

Loss rate: 3.85%

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



Run 6: Statistics of TaoVA-100x

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

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

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 196.47 Mbit/s

95th percentile per-packet one-way delay: 136.497 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 137.340 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 202.84 Mbit/s

95th percentile per-packet one-way delay: 136.435 ms

Loss rate: 1.77%

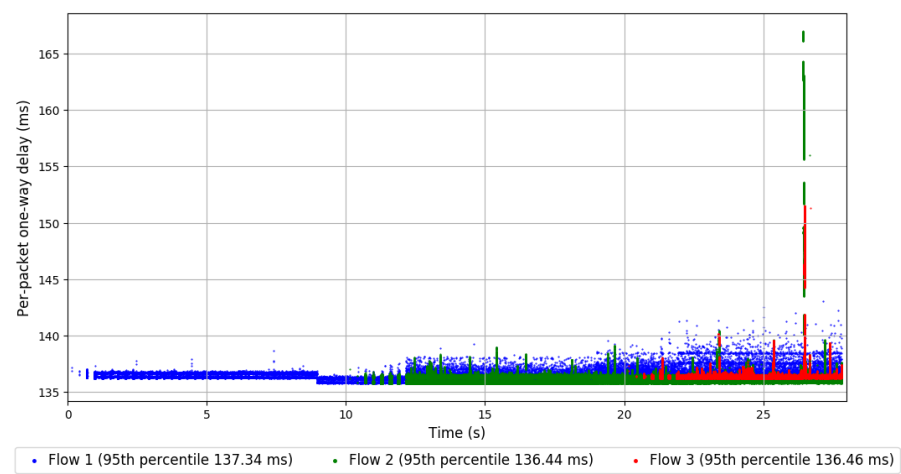
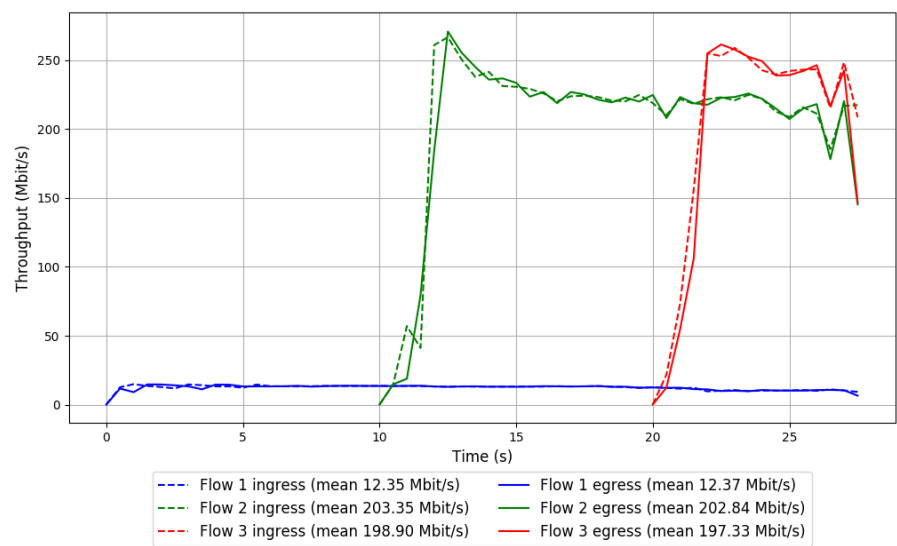
-- Flow 3:

Average throughput: 197.33 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 4.20%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-27 01:17:06

End at: 2018-01-27 01:17:36

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 202.59 Mbit/s

95th percentile per-packet one-way delay: 136.786 ms

Loss rate: 2.02%

-- Flow 1:

Average throughput: 156.02 Mbit/s

95th percentile per-packet one-way delay: 136.774 ms

Loss rate: 1.27%

-- Flow 2:

Average throughput: 11.17 Mbit/s

95th percentile per-packet one-way delay: 137.140 ms

Loss rate: 1.84%

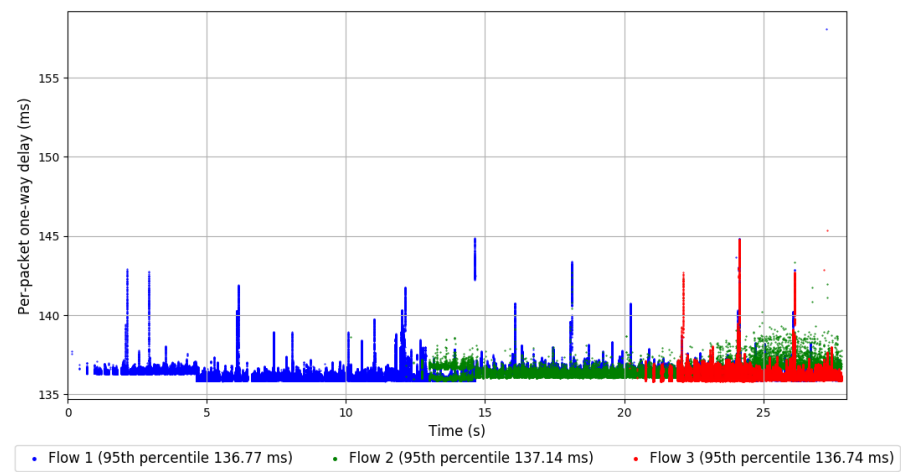
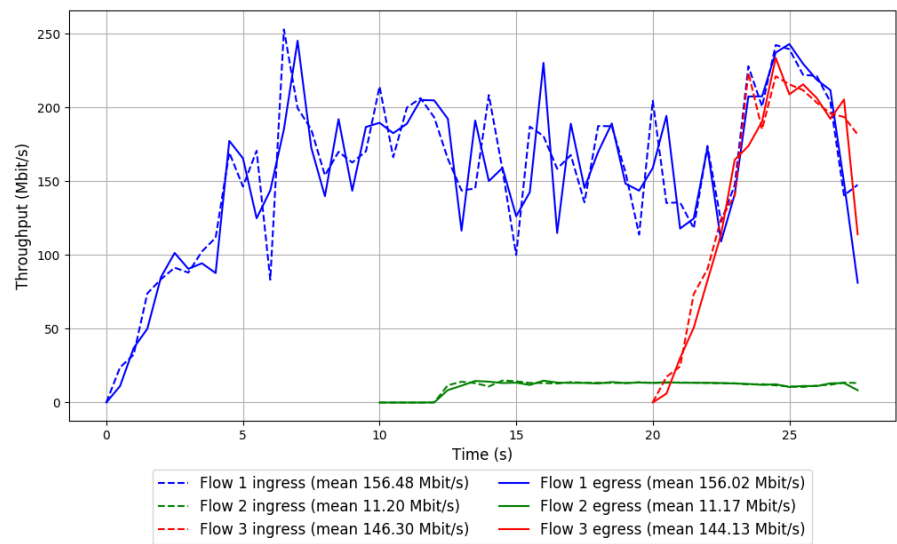
-- Flow 3:

Average throughput: 144.13 Mbit/s

95th percentile per-packet one-way delay: 136.744 ms

Loss rate: 4.93%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-27 01:33:03

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

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 299.72 Mbit/s

95th percentile per-packet one-way delay: 137.727 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 149.87 Mbit/s

95th percentile per-packet one-way delay: 136.658 ms

Loss rate: 1.65%

-- Flow 2:

Average throughput: 162.93 Mbit/s

95th percentile per-packet one-way delay: 137.490 ms

Loss rate: 0.16%

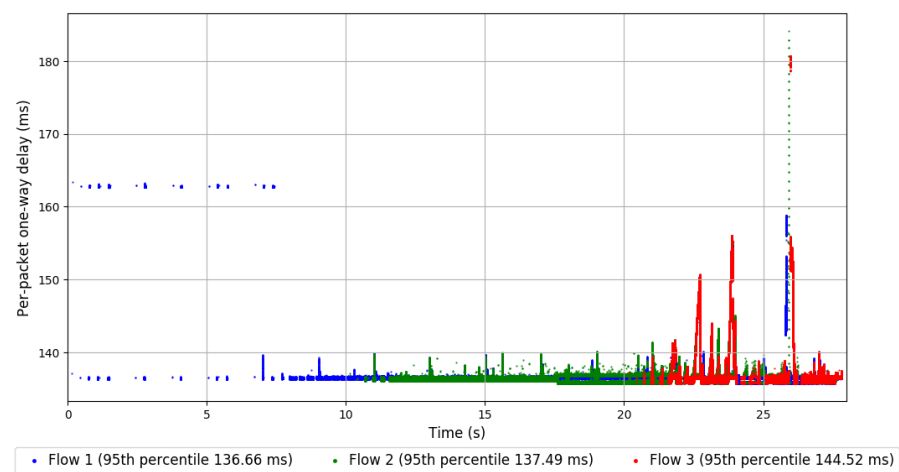
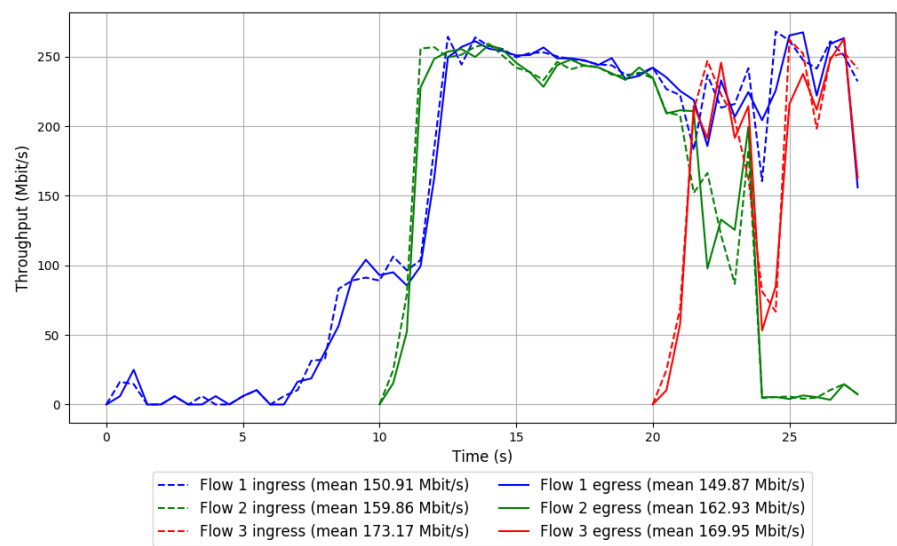
-- Flow 3:

Average throughput: 169.95 Mbit/s

95th percentile per-packet one-way delay: 144.522 ms

Loss rate: 5.25%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-27 01:49:09

End at: 2018-01-27 01:49:39

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 163.194 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 163.376 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.94 Mbit/s

95th percentile per-packet one-way delay: 163.136 ms

Loss rate: 0.00%

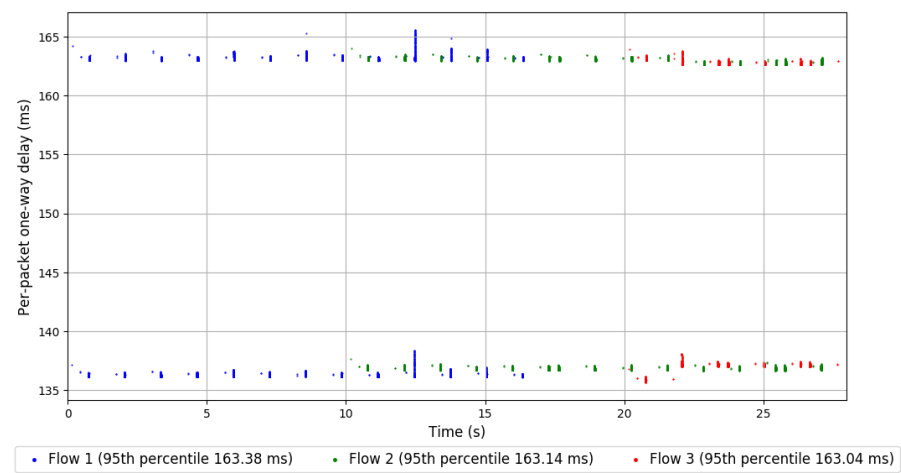
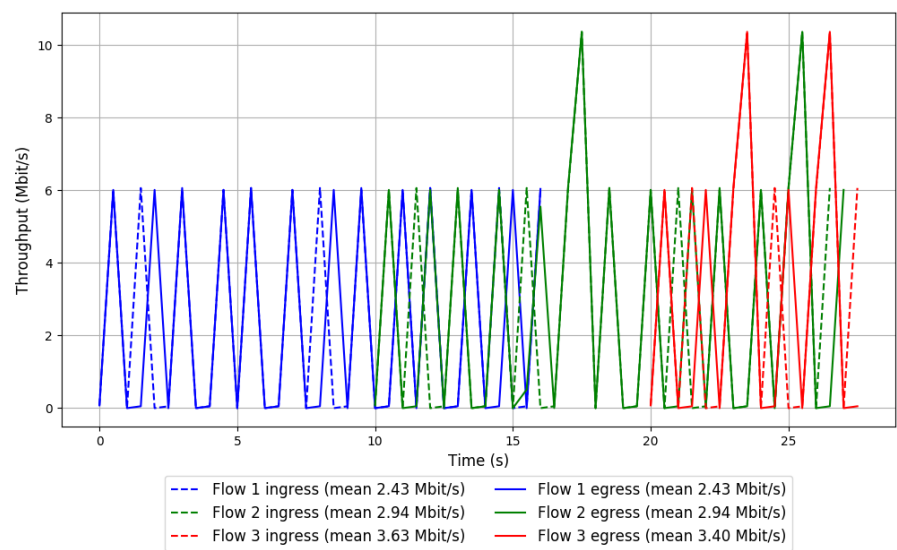
-- Flow 3:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 163.039 ms

Loss rate: 10.52%

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

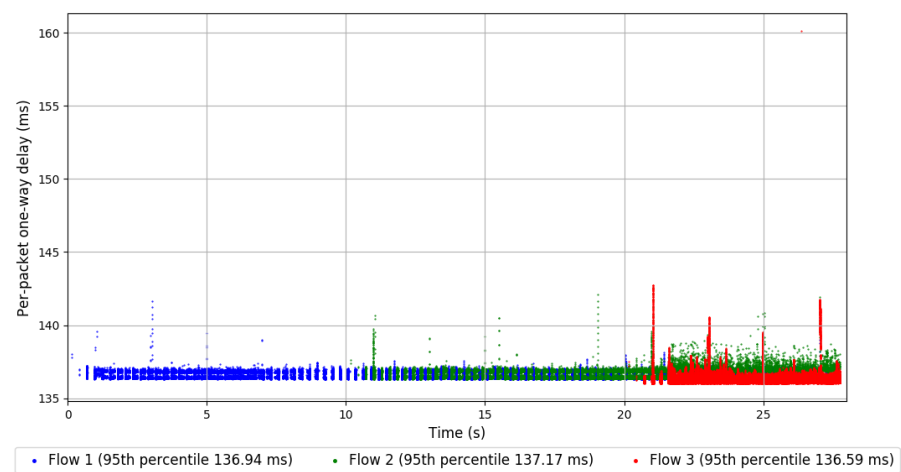
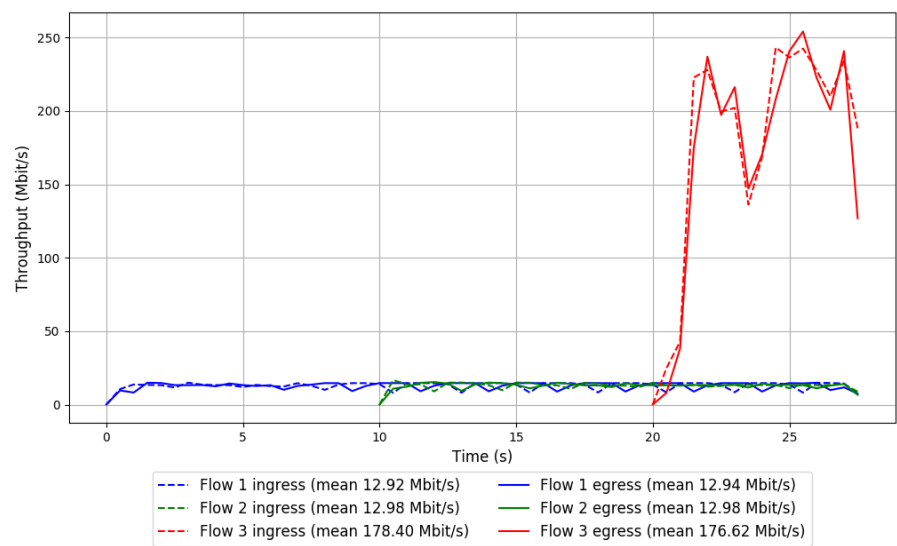


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-27 02:04:15
End at: 2018-01-27 02:04:45

# Below is generated by plot.py at 2018-01-27 05:24:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.69 Mbit/s
95th percentile per-packet one-way delay: 136.901 ms
Loss rate: 3.49%
-- Flow 1:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 136.940 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 12.98 Mbit/s
95th percentile per-packet one-way delay: 137.172 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 176.62 Mbit/s
95th percentile per-packet one-way delay: 136.587 ms
Loss rate: 4.44%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 23:45:08

End at: 2018-01-26 23:45:38

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.37 Mbit/s

95th percentile per-packet one-way delay: 146.795 ms

Loss rate: 2.75%

-- Flow 1:

Average throughput: 16.85 Mbit/s

95th percentile per-packet one-way delay: 142.973 ms

Loss rate: 4.36%

-- Flow 2:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 147.743 ms

Loss rate: 0.47%

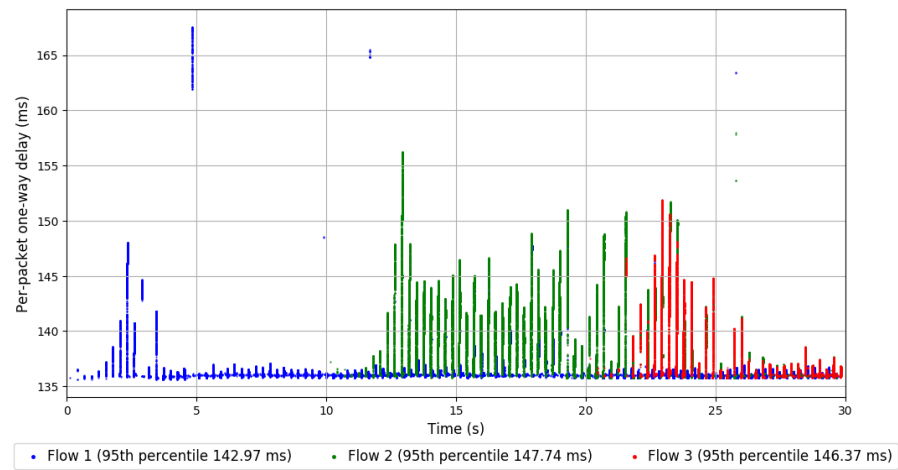
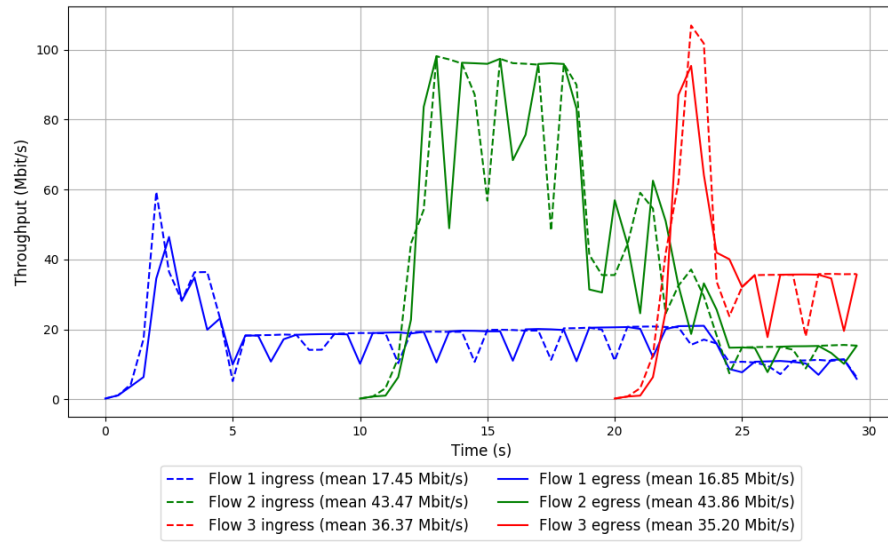
-- Flow 3:

Average throughput: 35.20 Mbit/s

95th percentile per-packet one-way delay: 146.367 ms

Loss rate: 5.89%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-27 00:00:51

End at: 2018-01-27 00:01:21

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 5.91 Mbit/s

95th percentile per-packet one-way delay: 163.392 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 163.002 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 162.948 ms

Loss rate: 1.51%

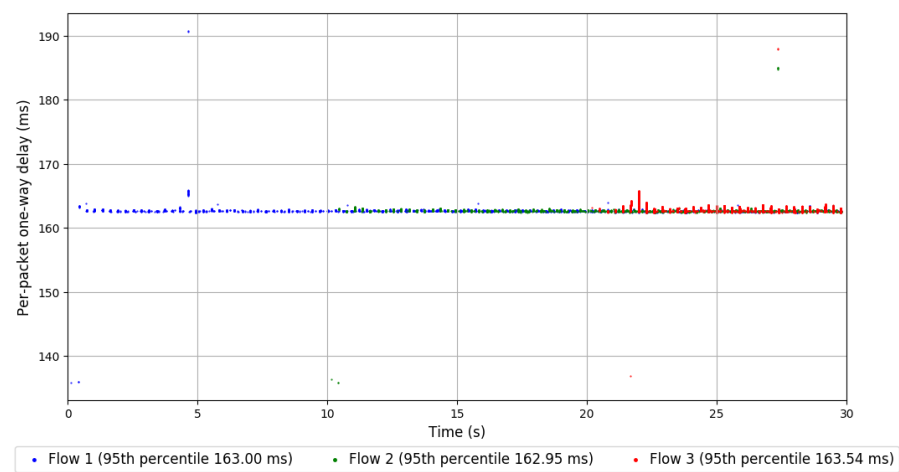
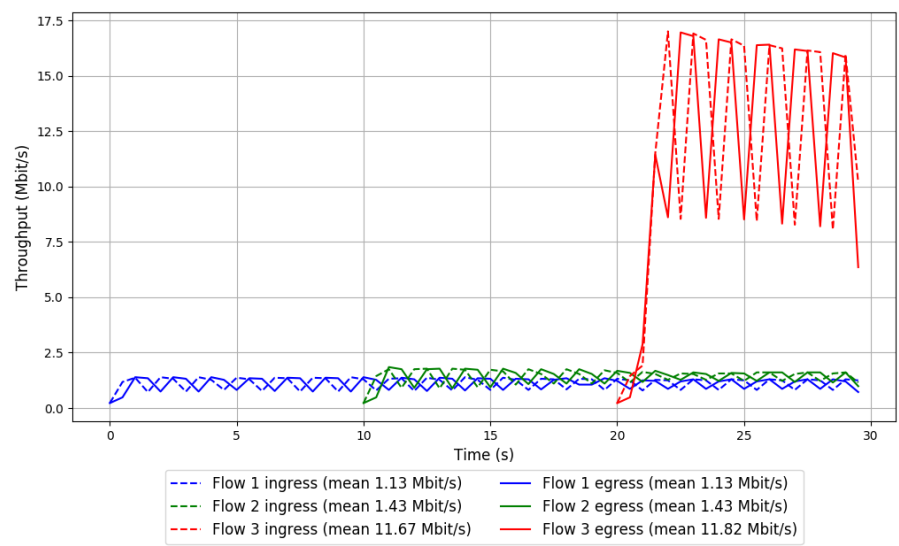
-- Flow 3:

Average throughput: 11.82 Mbit/s

95th percentile per-packet one-way delay: 163.544 ms

Loss rate: 1.73%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-27 00:16:29

End at: 2018-01-27 00:16:59

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.67 Mbit/s

95th percentile per-packet one-way delay: 148.267 ms

Loss rate: 1.95%

-- Flow 1:

Average throughput: 15.53 Mbit/s

95th percentile per-packet one-way delay: 144.030 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 147.950 ms

Loss rate: 0.91%

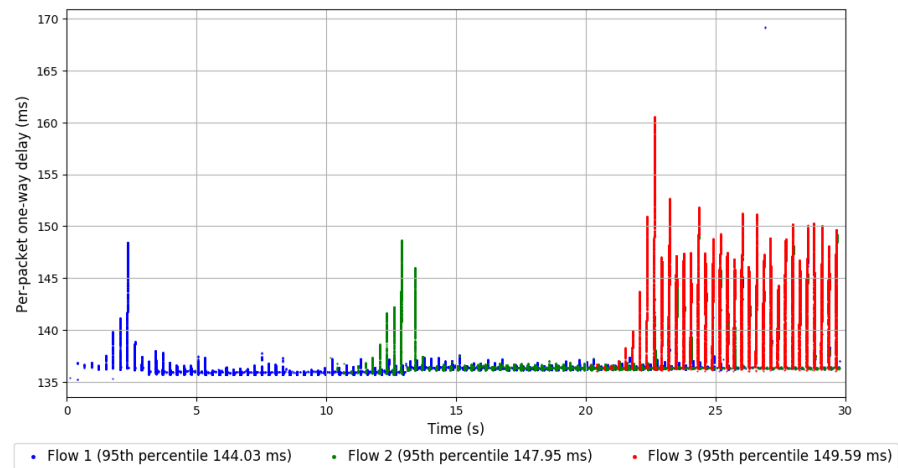
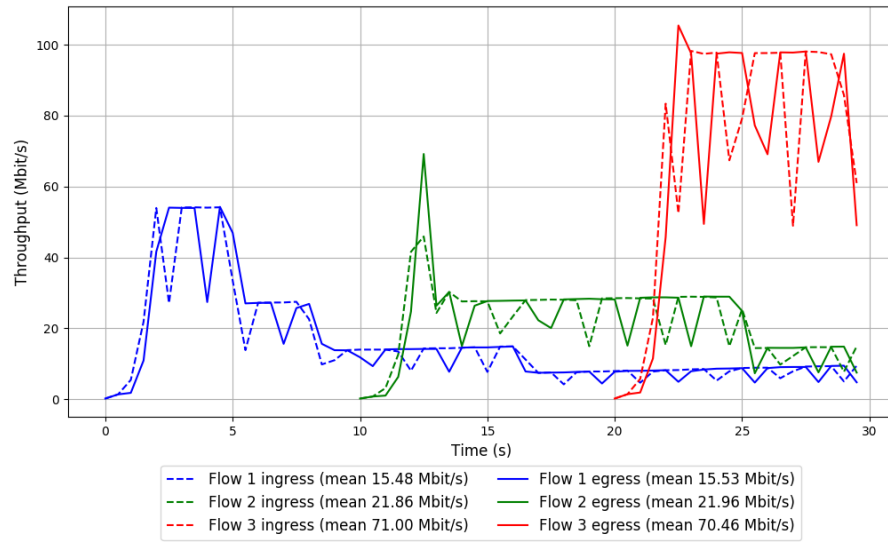
-- Flow 3:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 149.585 ms

Loss rate: 3.51%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-27 00:32:55

End at: 2018-01-27 00:33:25

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.75 Mbit/s

95th percentile per-packet one-way delay: 146.656 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 18.47 Mbit/s

95th percentile per-packet one-way delay: 145.749 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 57.55 Mbit/s

95th percentile per-packet one-way delay: 147.001 ms

Loss rate: 1.13%

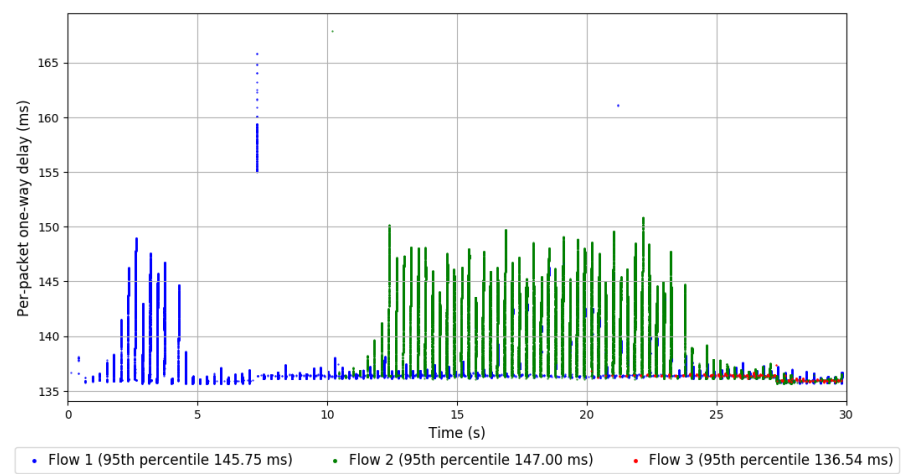
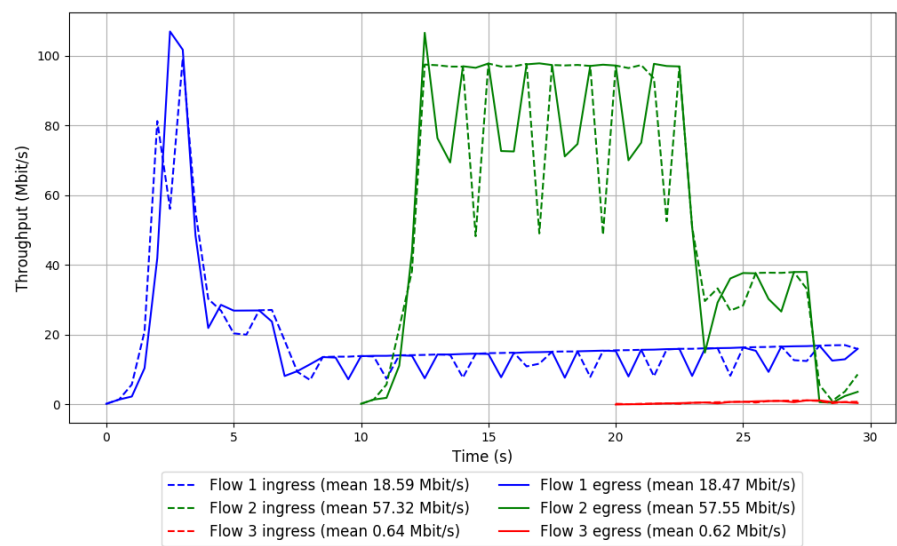
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 136.542 ms

Loss rate: 5.49%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-27 00:49:33

End at: 2018-01-27 00:50:03

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.68 Mbit/s

95th percentile per-packet one-way delay: 145.078 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 142.944 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 42.58 Mbit/s

95th percentile per-packet one-way delay: 145.768 ms

Loss rate: 0.77%

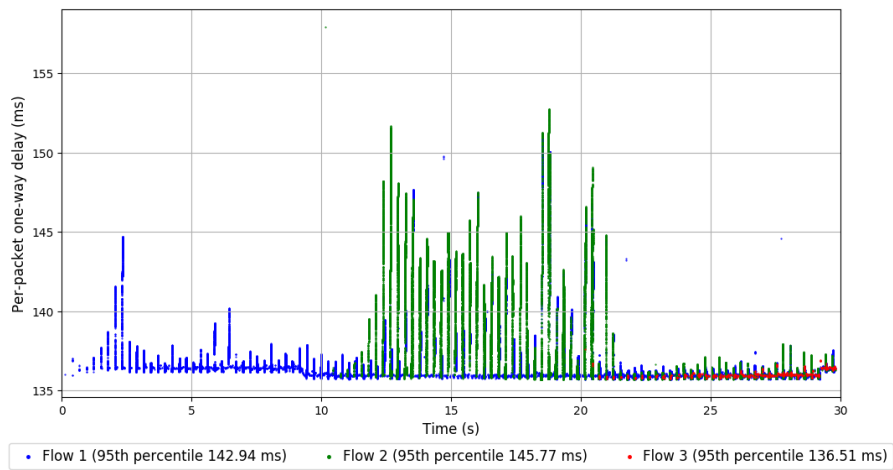
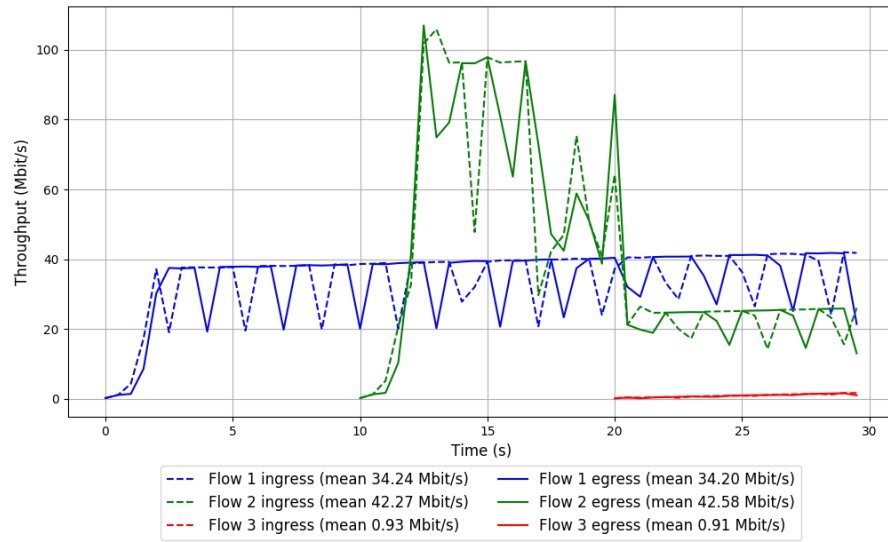
-- Flow 3:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 136.509 ms

Loss rate: 5.58%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-27 01:05:56

End at: 2018-01-27 01:06:26

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 52.51 Mbit/s

95th percentile per-packet one-way delay: 139.655 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 24.41 Mbit/s

95th percentile per-packet one-way delay: 137.975 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 31.98 Mbit/s

95th percentile per-packet one-way delay: 140.186 ms

Loss rate: 0.79%

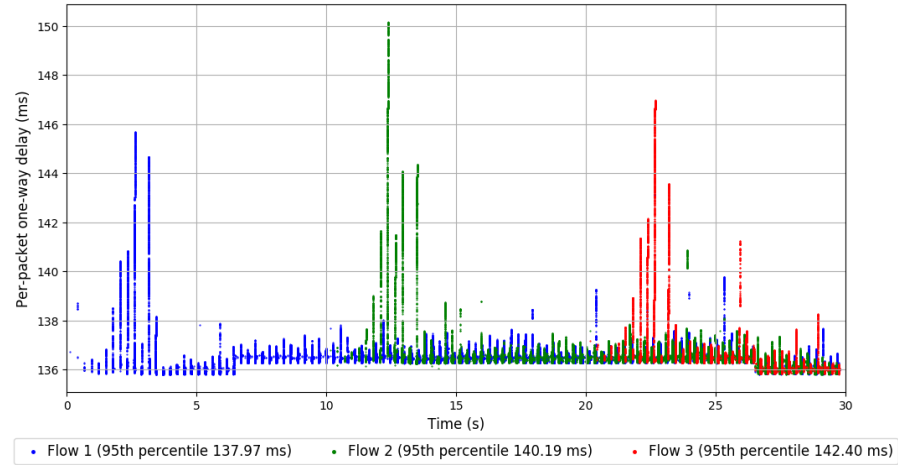
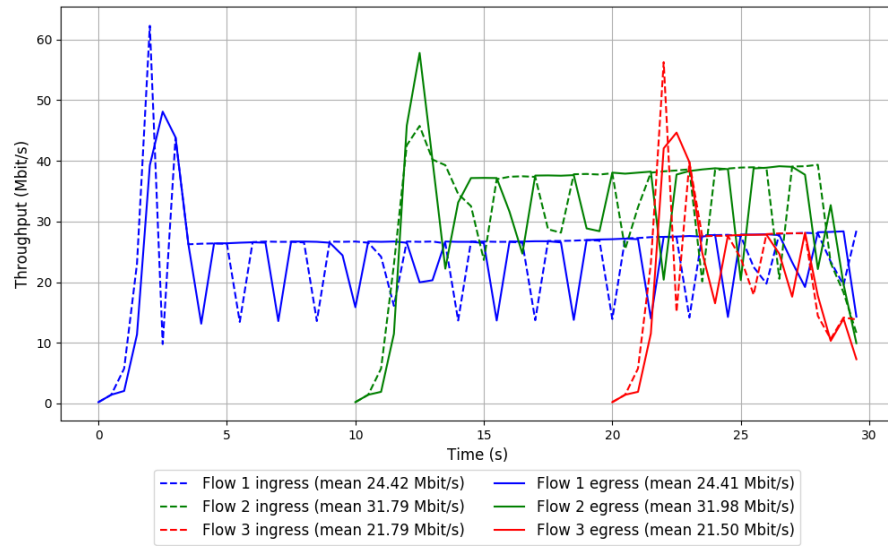
-- Flow 3:

Average throughput: 21.50 Mbit/s

95th percentile per-packet one-way delay: 142.400 ms

Loss rate: 4.09%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-27 01:21:59

End at: 2018-01-27 01:22:29

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 137.423 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 24.71 Mbit/s

95th percentile per-packet one-way delay: 137.355 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 137.087 ms

Loss rate: 1.57%

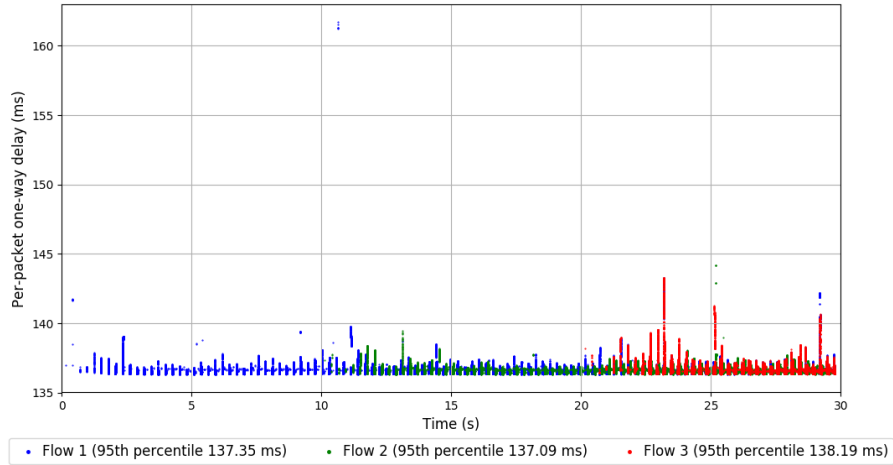
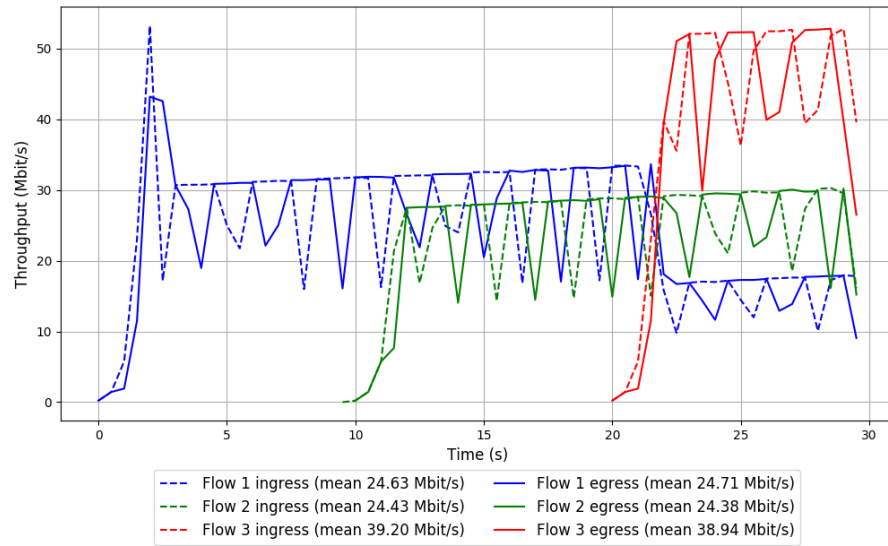
-- Flow 3:

Average throughput: 38.94 Mbit/s

95th percentile per-packet one-way delay: 138.193 ms

Loss rate: 3.43%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-27 01:38:07

End at: 2018-01-27 01:38:37

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.46 Mbit/s

95th percentile per-packet one-way delay: 166.674 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 163.033 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 167.602 ms

Loss rate: 0.87%

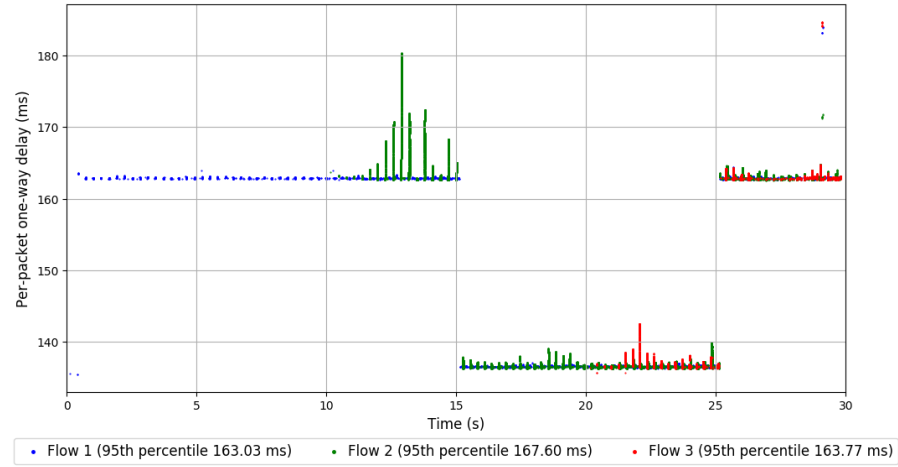
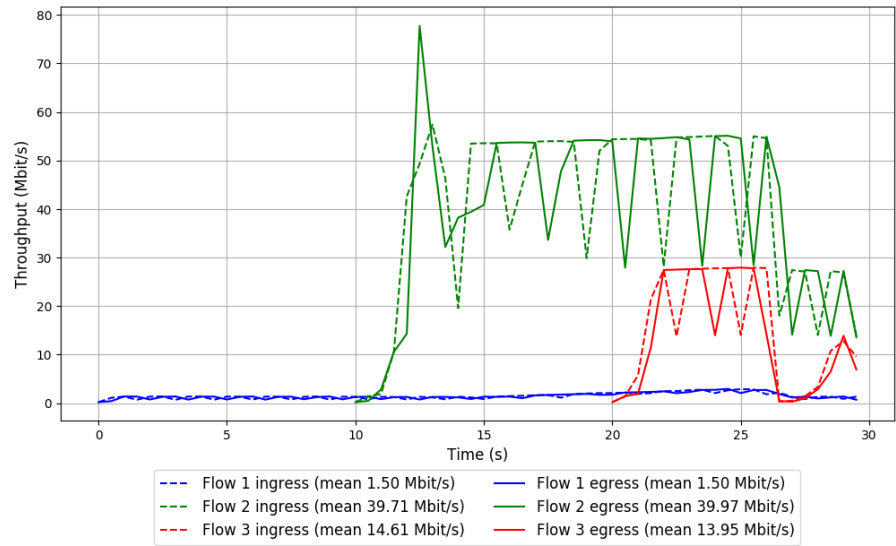
-- Flow 3:

Average throughput: 13.95 Mbit/s

95th percentile per-packet one-way delay: 163.772 ms

Loss rate: 7.12%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-27 01:53:39

End at: 2018-01-27 01:54:09

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.11 Mbit/s

95th percentile per-packet one-way delay: 164.008 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 23.93 Mbit/s

95th percentile per-packet one-way delay: 163.762 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 37.76 Mbit/s

95th percentile per-packet one-way delay: 164.154 ms

Loss rate: 1.90%

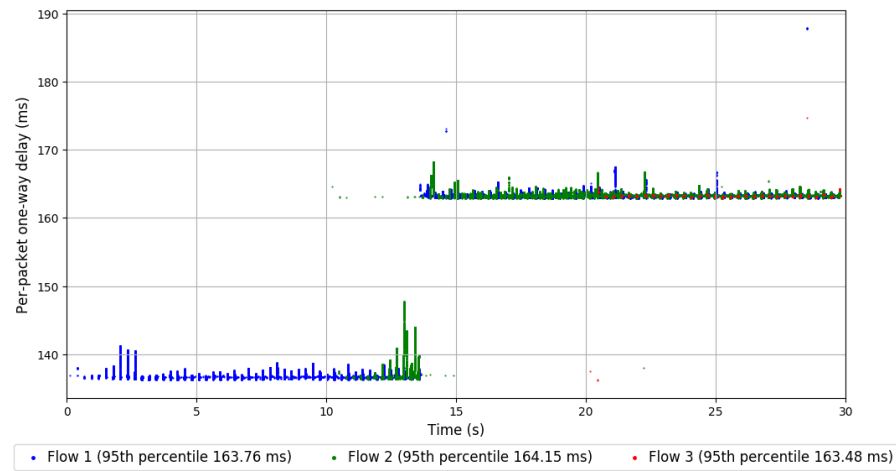
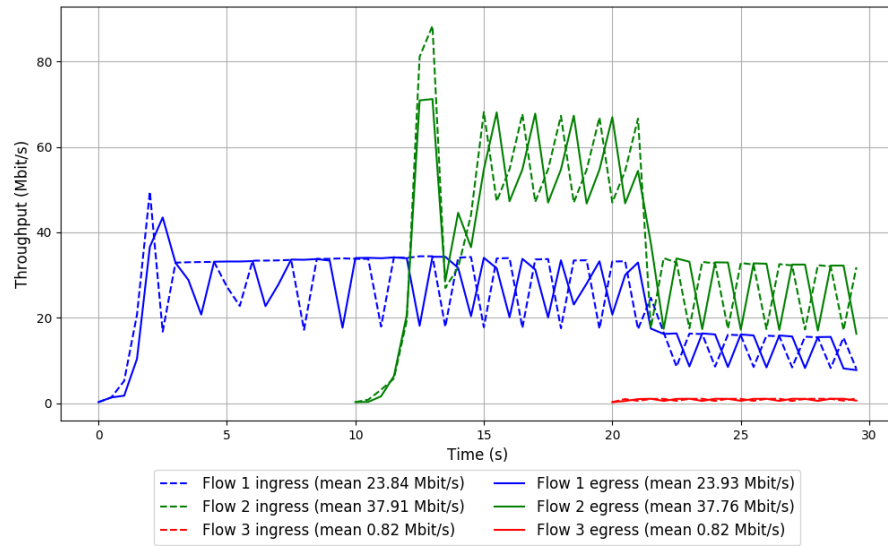
-- Flow 3:

Average throughput: 0.82 Mbit/s

95th percentile per-packet one-way delay: 163.477 ms

Loss rate: 3.24%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-27 02:08:56

End at: 2018-01-27 02:09:26

Below is generated by plot.py at 2018-01-27 05:24:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.51 Mbit/s

95th percentile per-packet one-way delay: 171.613 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 166.531 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 73.92 Mbit/s

95th percentile per-packet one-way delay: 171.677 ms

Loss rate: 1.80%

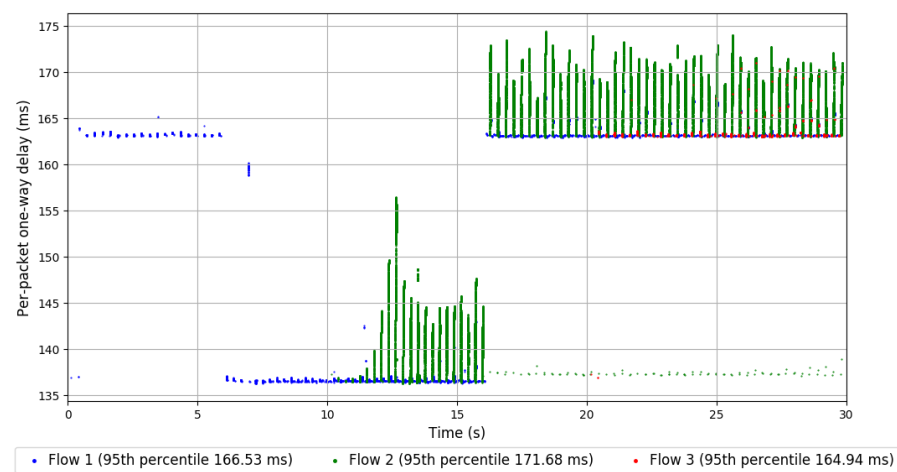
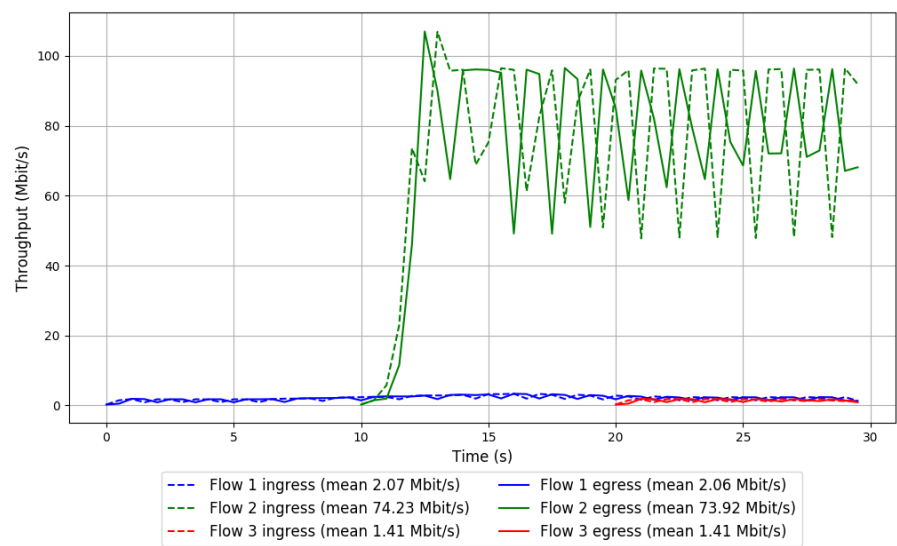
-- Flow 3:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 164.943 ms

Loss rate: 3.11%

Run 10: Report of TCP Vegas — Data Link

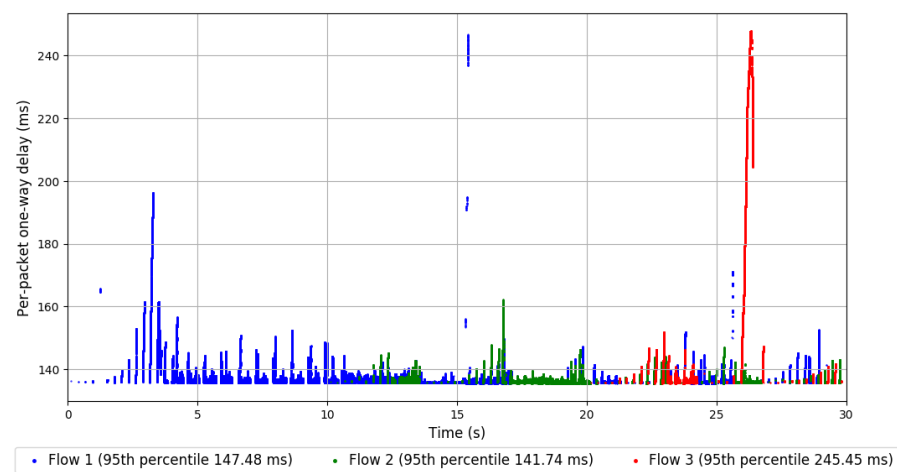
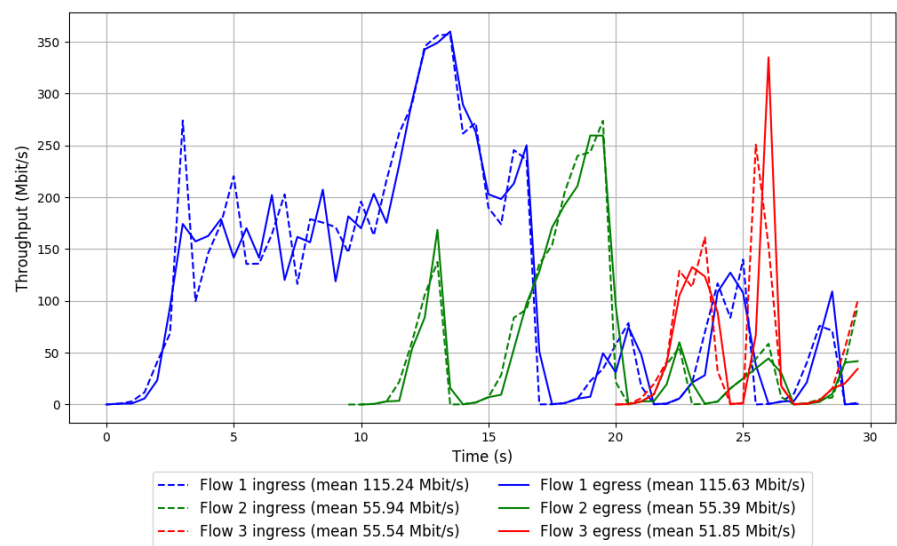


```
Run 1: Statistics of Verus

Start at: 2018-01-26 23:35:37
End at: 2018-01-26 23:36:07

# Below is generated by plot.py at 2018-01-27 05:25:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.97 Mbit/s
95th percentile per-packet one-way delay: 155.377 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 115.63 Mbit/s
95th percentile per-packet one-way delay: 147.478 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 141.741 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 245.452 ms
Loss rate: 9.21%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 23:51:58

End at: 2018-01-26 23:52:28

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.49 Mbit/s

95th percentile per-packet one-way delay: 223.677 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 152.70 Mbit/s

95th percentile per-packet one-way delay: 217.974 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 56.13 Mbit/s

95th percentile per-packet one-way delay: 219.619 ms

Loss rate: 4.26%

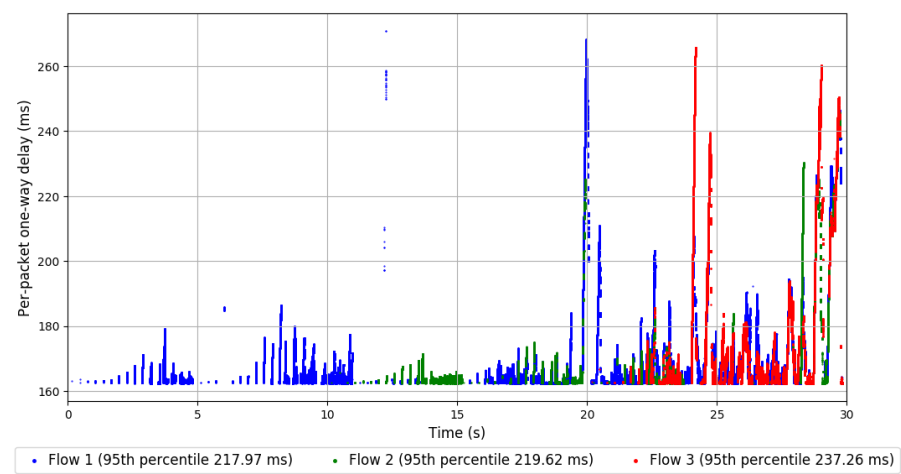
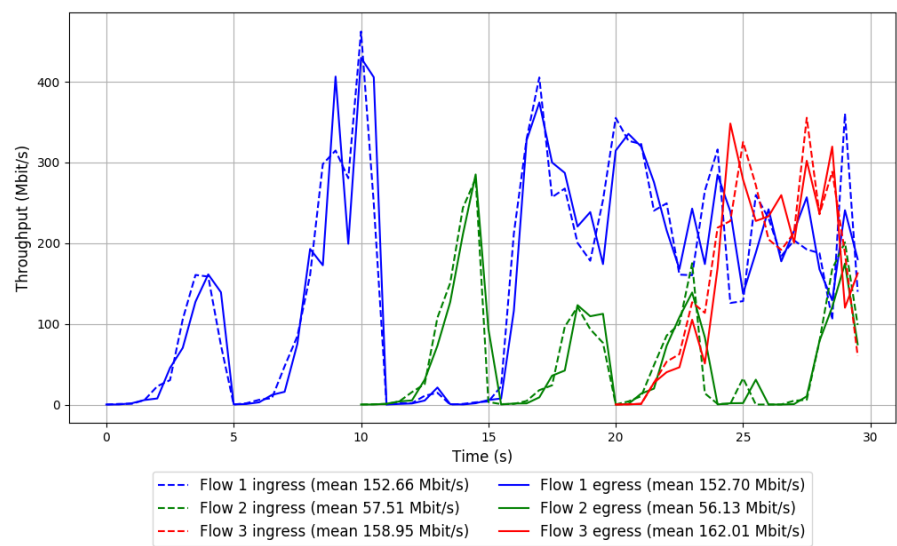
-- Flow 3:

Average throughput: 162.01 Mbit/s

95th percentile per-packet one-way delay: 237.260 ms

Loss rate: 1.13%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-27 00:07:11

End at: 2018-01-27 00:07:41

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 176.11 Mbit/s

95th percentile per-packet one-way delay: 240.177 ms

Loss rate: 2.48%

-- Flow 1:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 261.733 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 125.51 Mbit/s

95th percentile per-packet one-way delay: 207.139 ms

Loss rate: 2.32%

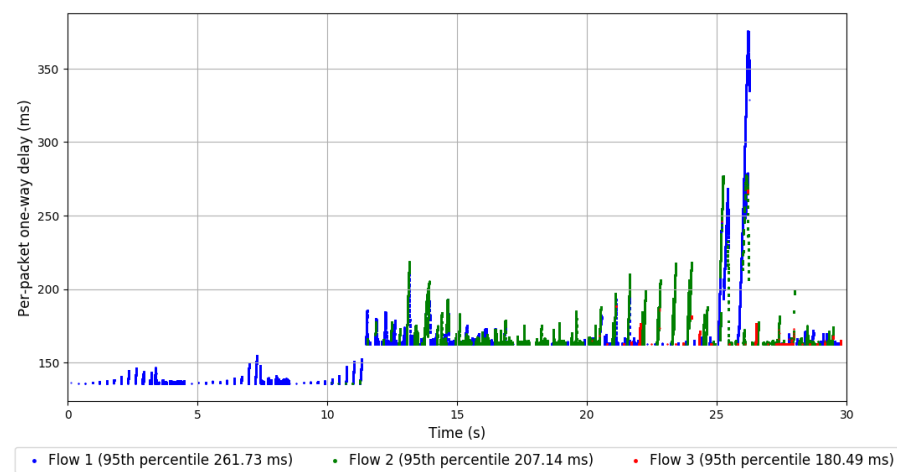
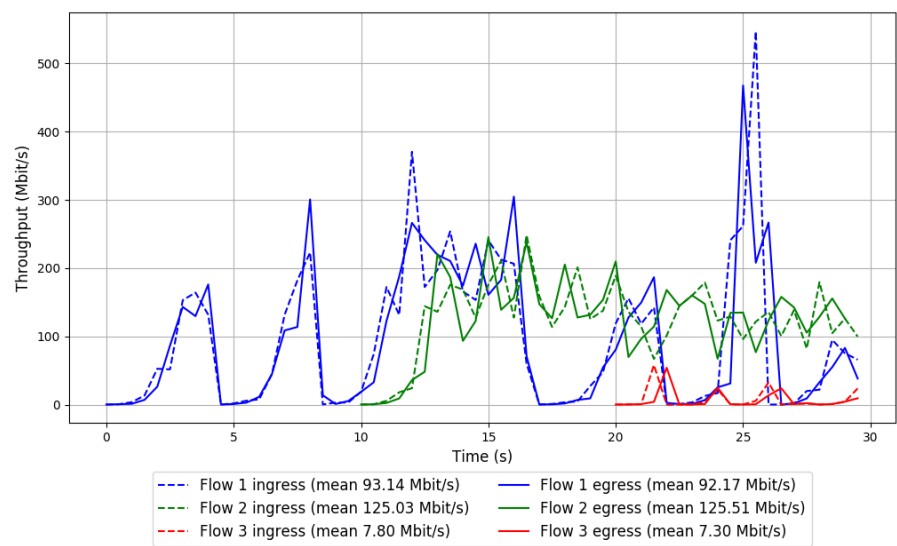
-- Flow 3:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 180.492 ms

Loss rate: 9.38%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-27 00:23:27

End at: 2018-01-27 00:23:57

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

Datalink statistics

-- Total of 3 flows:

Average throughput: 194.37 Mbit/s

95th percentile per-packet one-way delay: 168.081 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 137.81 Mbit/s

95th percentile per-packet one-way delay: 171.206 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 72.81 Mbit/s

95th percentile per-packet one-way delay: 163.195 ms

Loss rate: 4.34%

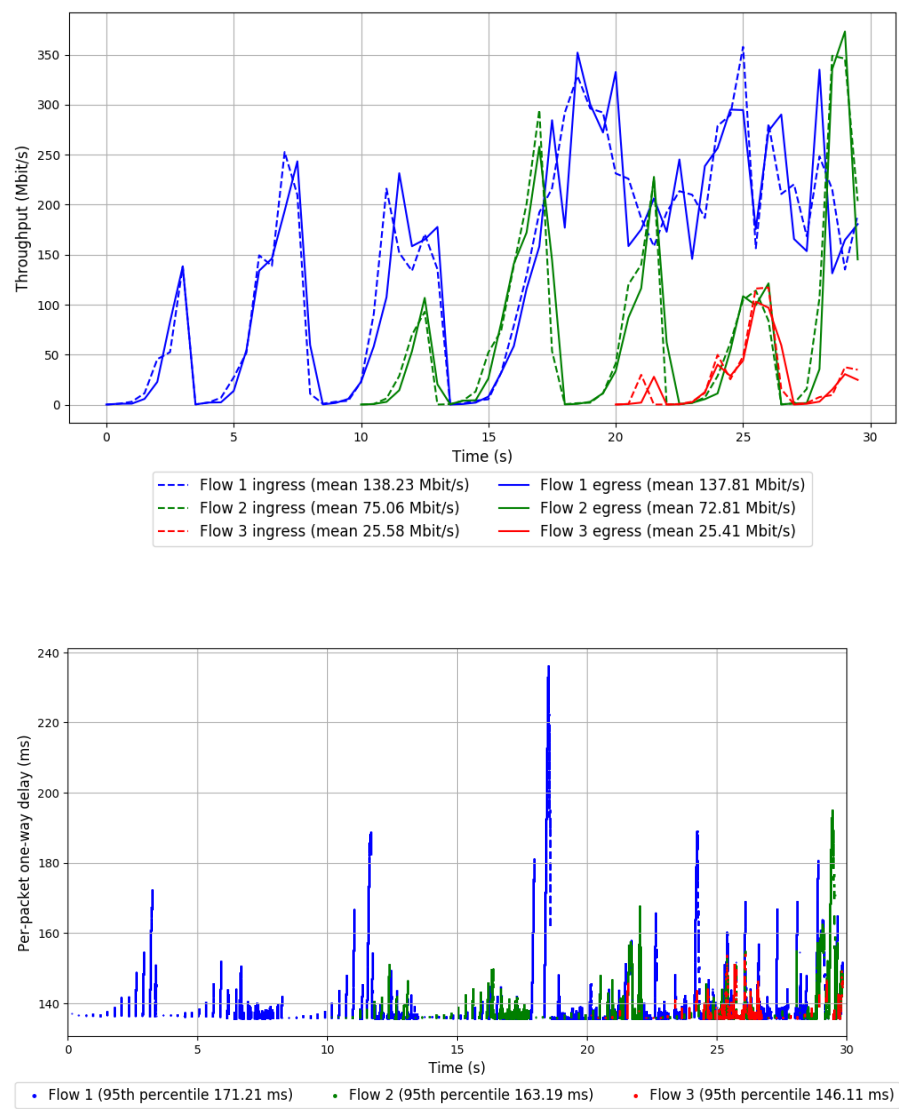
-- Flow 3:

Average throughput: 25.41 Mbit/s

95th percentile per-packet one-way delay: 146.106 ms

Loss rate: 3.35%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-27 00:39:56

End at: 2018-01-27 00:40:26

Below is generated by plot.py at 2018-01-27 05:28:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 251.25 Mbit/s

95th percentile per-packet one-way delay: 163.167 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 191.70 Mbit/s

95th percentile per-packet one-way delay: 166.533 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 148.698 ms

Loss rate: 0.07%

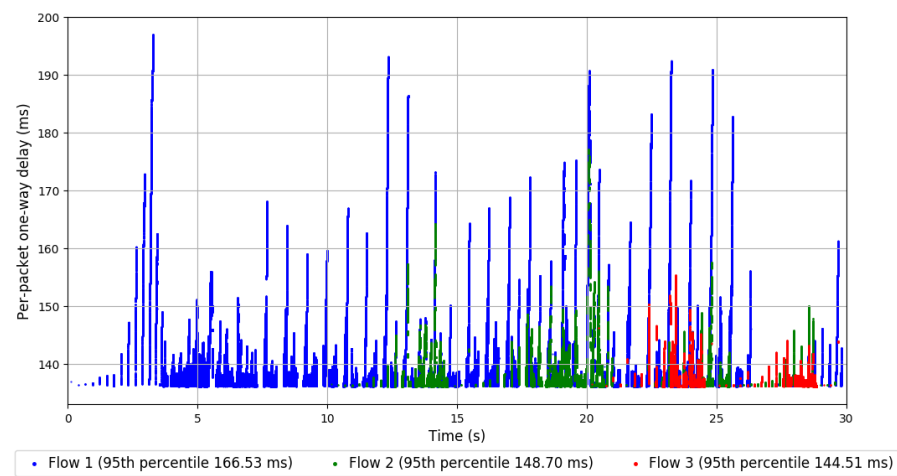
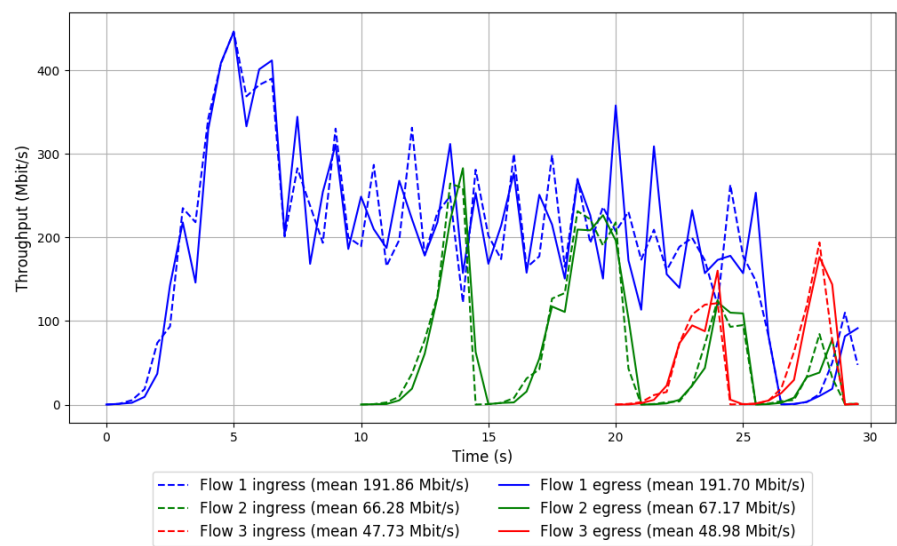
-- Flow 3:

Average throughput: 48.98 Mbit/s

95th percentile per-packet one-way delay: 144.511 ms

Loss rate: 0.25%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-27 00:56:35

End at: 2018-01-27 00:57:05

Below is generated by plot.py at 2018-01-27 05:29:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 291.95 Mbit/s

95th percentile per-packet one-way delay: 203.712 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 209.77 Mbit/s

95th percentile per-packet one-way delay: 168.404 ms

Loss rate: 1.03%

-- Flow 2:

Average throughput: 109.92 Mbit/s

95th percentile per-packet one-way delay: 267.372 ms

Loss rate: 4.00%

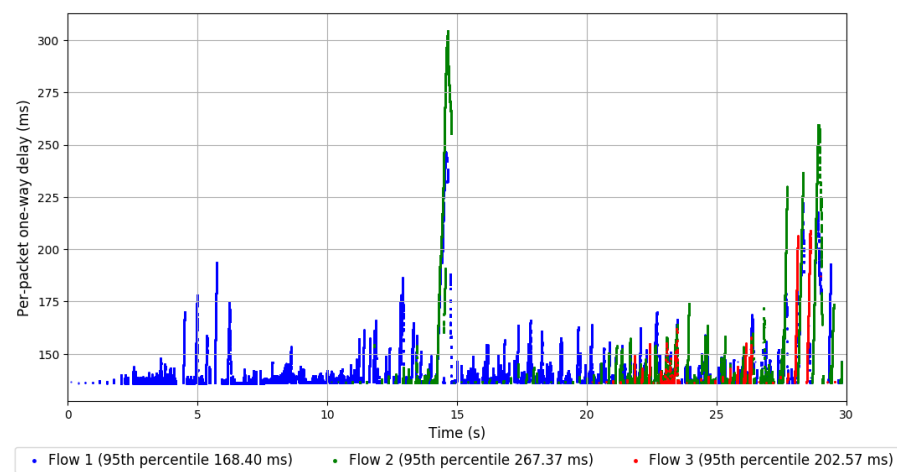
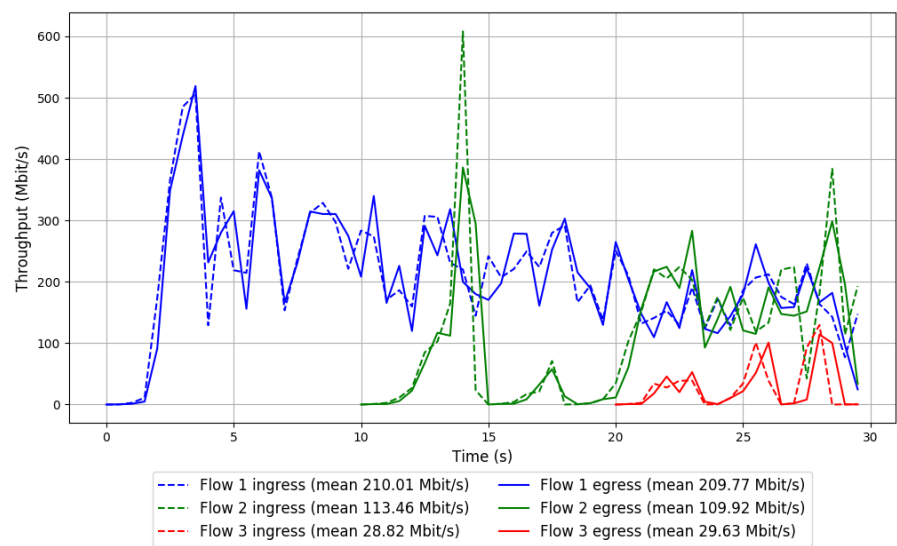
-- Flow 3:

Average throughput: 29.63 Mbit/s

95th percentile per-packet one-way delay: 202.570 ms

Loss rate: 0.10%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-27 01:12:53

End at: 2018-01-27 01:13:23

Below is generated by plot.py at 2018-01-27 05:29:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 130.18 Mbit/s

95th percentile per-packet one-way delay: 174.657 ms

Loss rate: 2.48%

-- Flow 1:

Average throughput: 72.73 Mbit/s

95th percentile per-packet one-way delay: 197.284 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 31.92 Mbit/s

95th percentile per-packet one-way delay: 164.369 ms

Loss rate: 0.83%

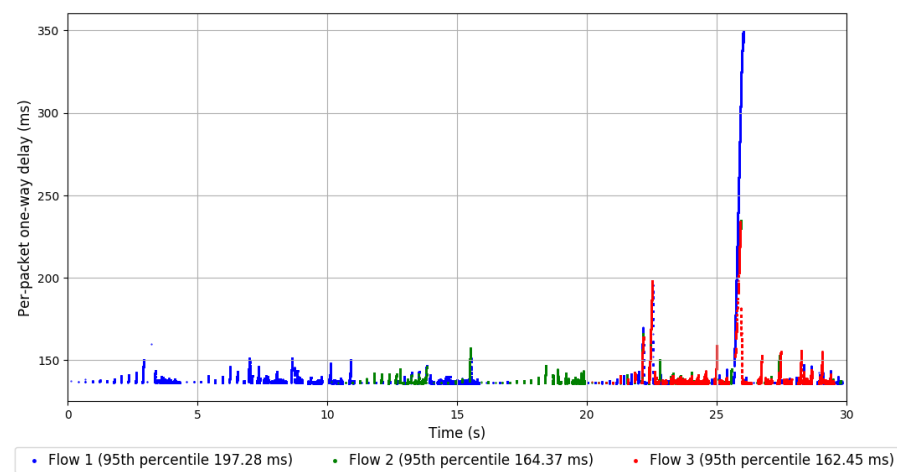
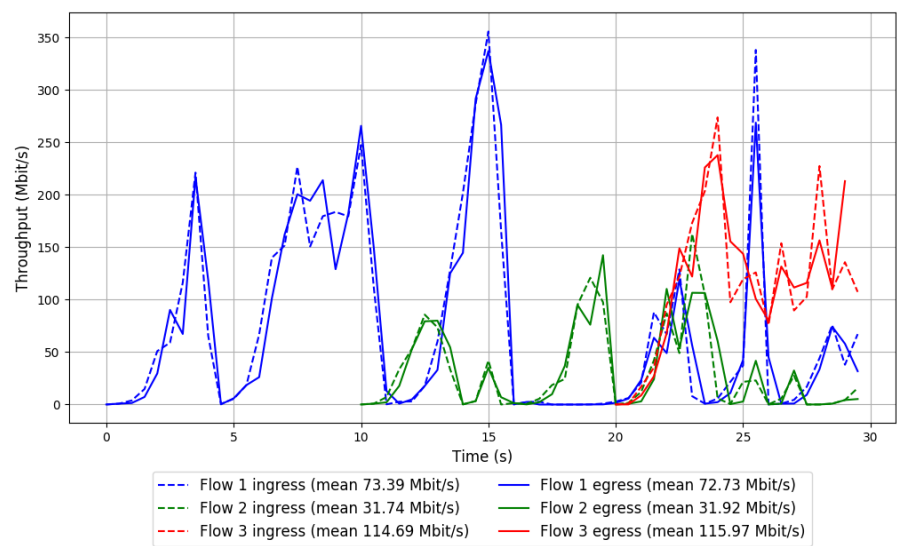
-- Flow 3:

Average throughput: 115.97 Mbit/s

95th percentile per-packet one-way delay: 162.449 ms

Loss rate: 4.76%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-27 01:28:42

End at: 2018-01-27 01:29:12

Below is generated by plot.py at 2018-01-27 05:29:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 203.30 Mbit/s

95th percentile per-packet one-way delay: 194.930 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 126.78 Mbit/s

95th percentile per-packet one-way delay: 201.975 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.34 Mbit/s

95th percentile per-packet one-way delay: 187.190 ms

Loss rate: 2.30%

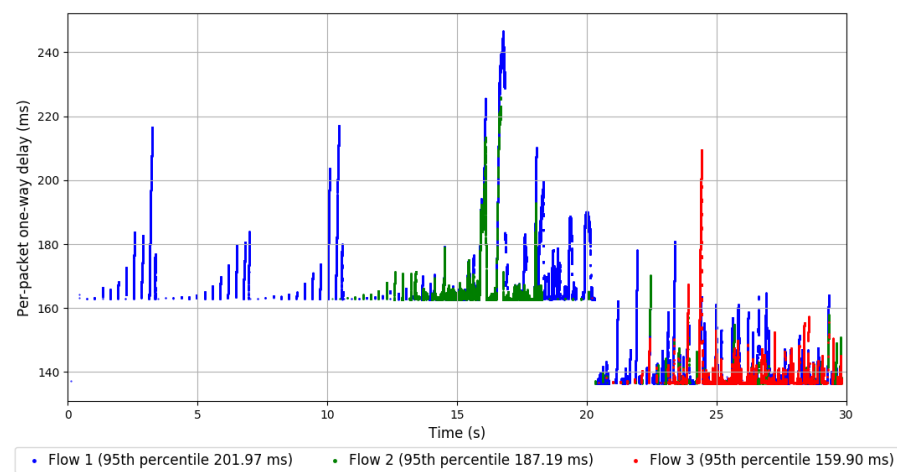
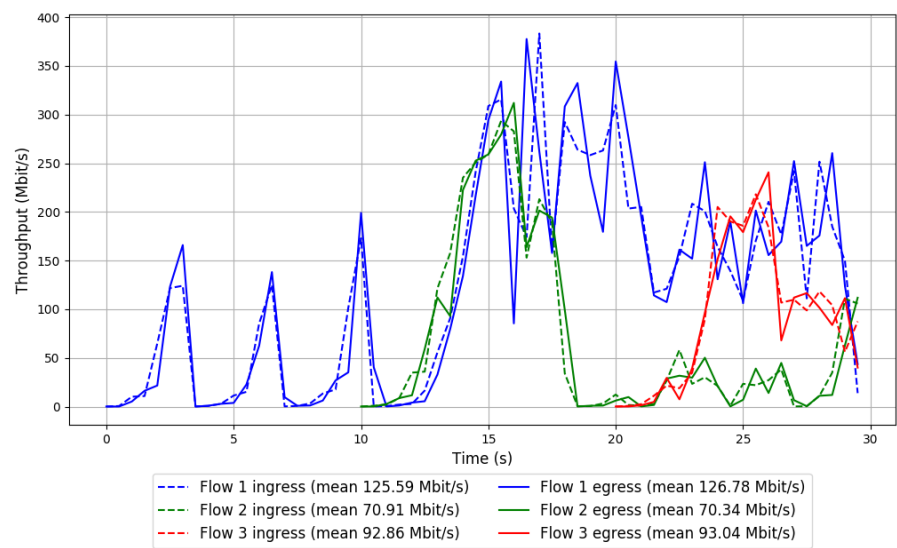
-- Flow 3:

Average throughput: 93.04 Mbit/s

95th percentile per-packet one-way delay: 159.895 ms

Loss rate: 2.83%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-27 01:45:00

End at: 2018-01-27 01:45:30

Below is generated by plot.py at 2018-01-27 05:30:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 247.20 Mbit/s

95th percentile per-packet one-way delay: 268.210 ms

Loss rate: 5.33%

-- Flow 1:

Average throughput: 129.52 Mbit/s

95th percentile per-packet one-way delay: 259.122 ms

Loss rate: 4.24%

-- Flow 2:

Average throughput: 152.87 Mbit/s

95th percentile per-packet one-way delay: 279.053 ms

Loss rate: 5.28%

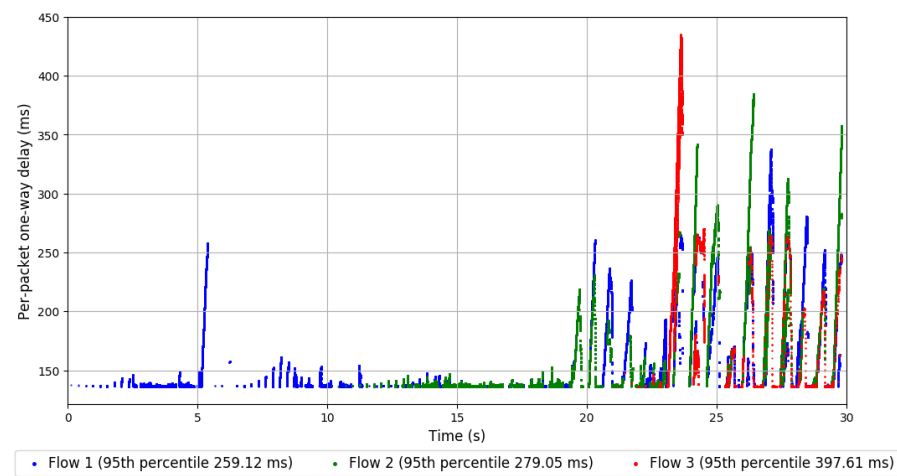
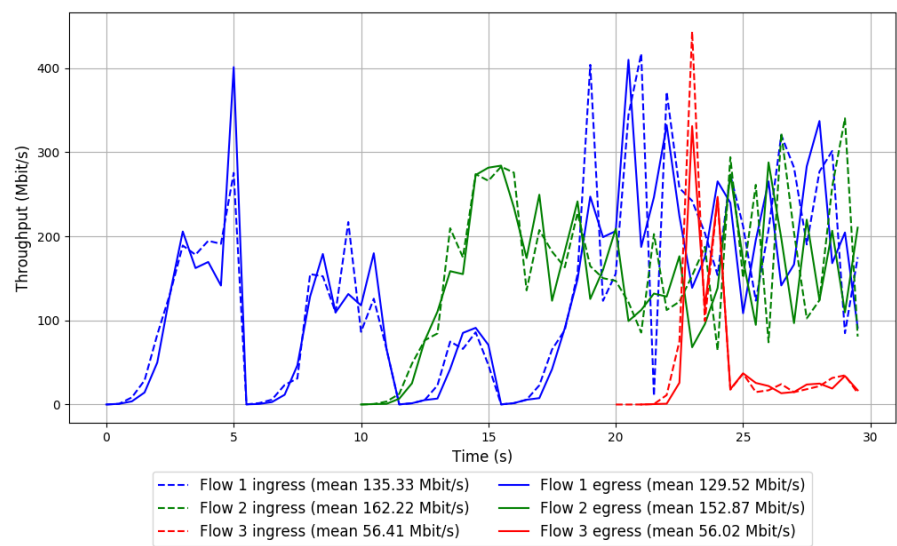
-- Flow 3:

Average throughput: 56.02 Mbit/s

95th percentile per-packet one-way delay: 397.606 ms

Loss rate: 13.42%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-27 02:00:02

End at: 2018-01-27 02:00:32

Below is generated by plot.py at 2018-01-27 05:30:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.44 Mbit/s

95th percentile per-packet one-way delay: 239.793 ms

Loss rate: 2.49%

-- Flow 1:

Average throughput: 106.68 Mbit/s

95th percentile per-packet one-way delay: 221.409 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 105.19 Mbit/s

95th percentile per-packet one-way delay: 181.898 ms

Loss rate: 0.18%

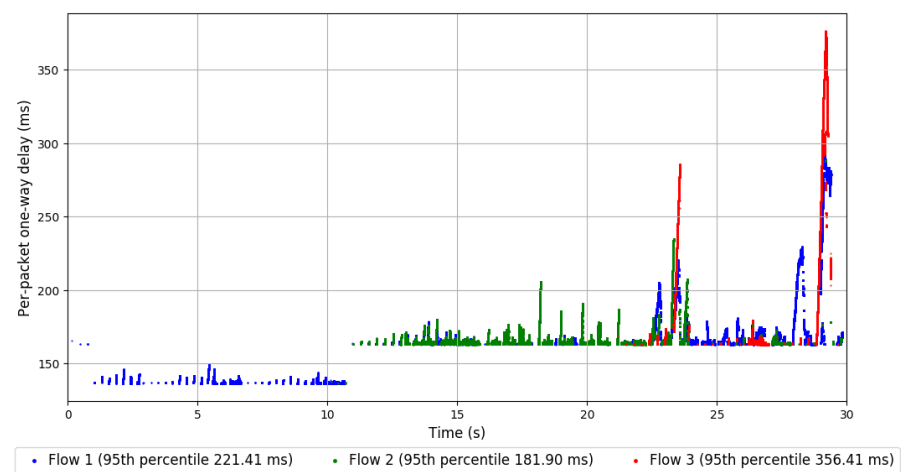
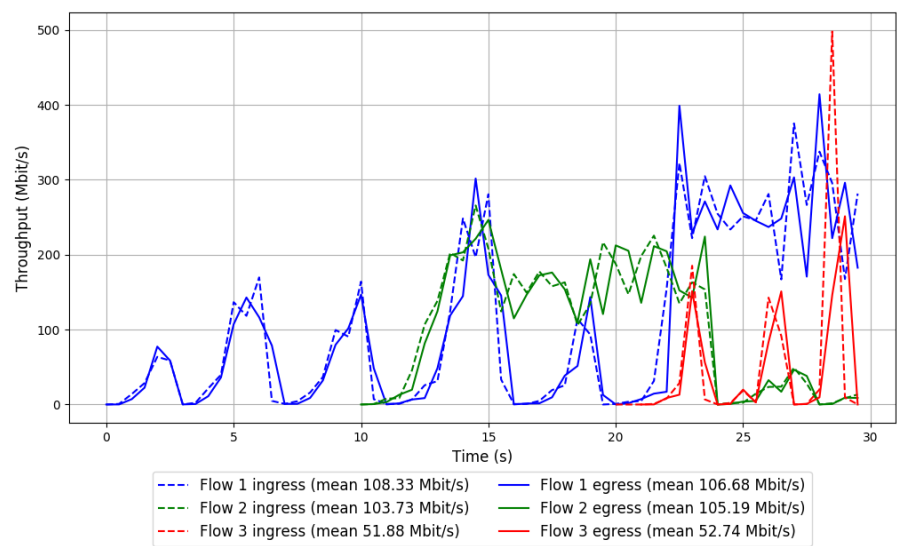
-- Flow 3:

Average throughput: 52.74 Mbit/s

95th percentile per-packet one-way delay: 356.406 ms

Loss rate: 11.90%

Run 10: Report of Verus — Data Link

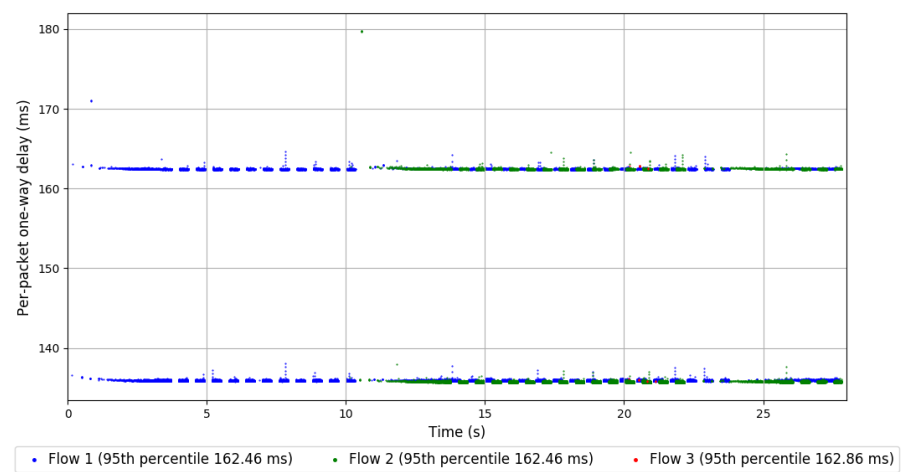
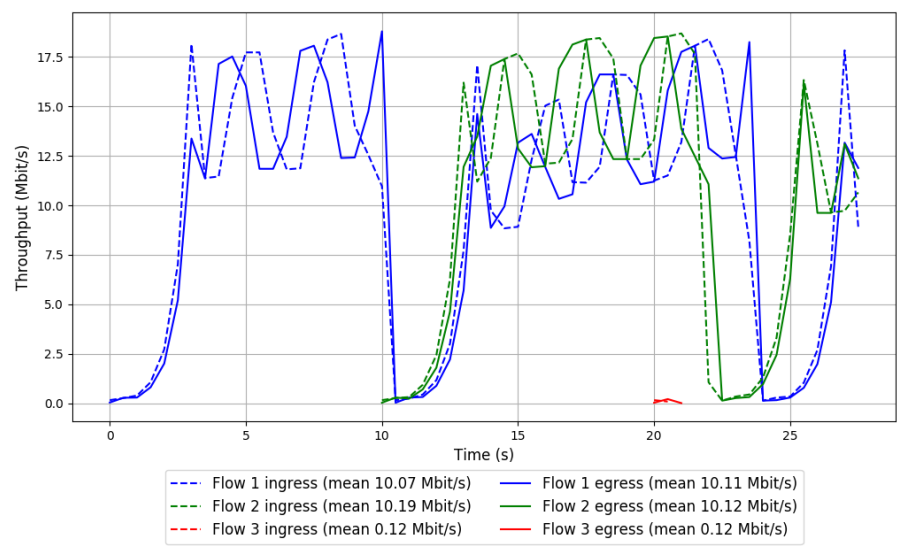


```
Run 1: Statistics of Copa

Start at: 2018-01-26 23:47:13
End at: 2018-01-26 23:47:43

# Below is generated by plot.py at 2018-01-27 05:30:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.55 Mbit/s
95th percentile per-packet one-way delay: 162.457 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 162.457 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 10.12 Mbit/s
95th percentile per-packet one-way delay: 162.458 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 162.859 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-27 00:02:51

End at: 2018-01-27 00:03:21

Below is generated by plot.py at 2018-01-27 05:30:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 162.528 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.935 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.32 Mbit/s

95th percentile per-packet one-way delay: 162.519 ms

Loss rate: 2.68%

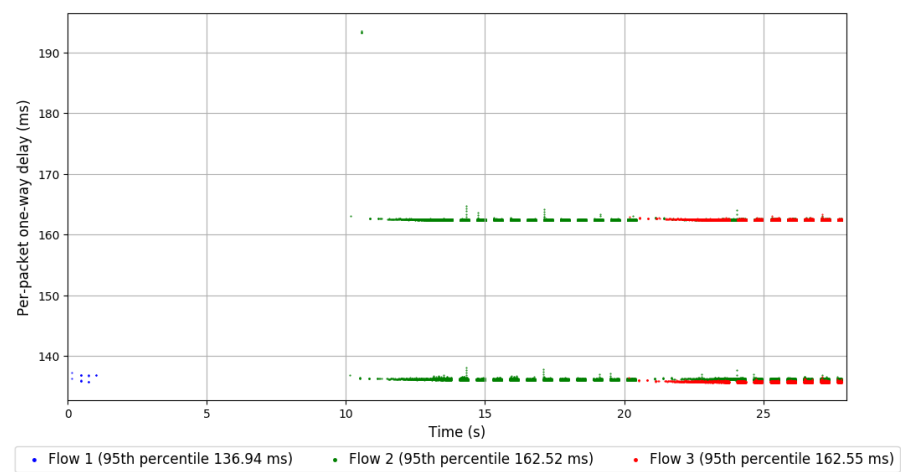
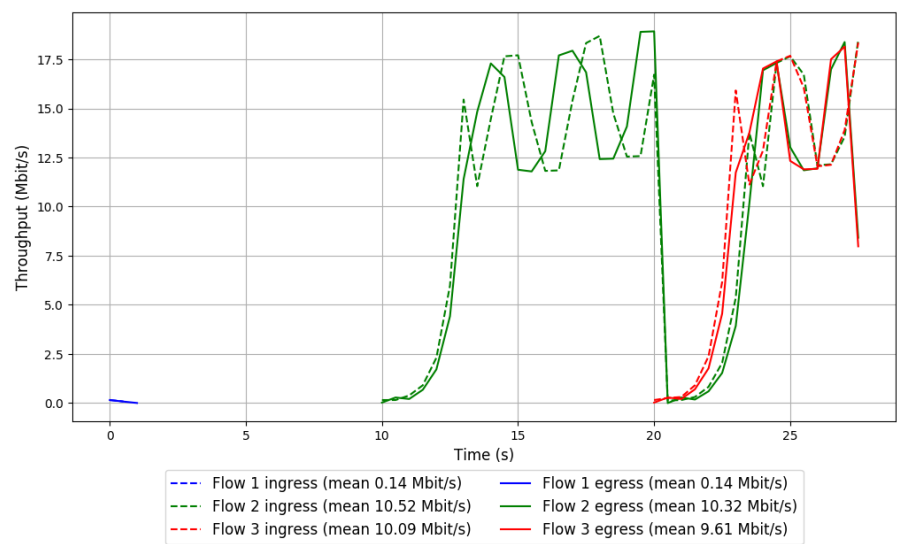
-- Flow 3:

Average throughput: 9.61 Mbit/s

95th percentile per-packet one-way delay: 162.547 ms

Loss rate: 6.58%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-27 00:18:36

End at: 2018-01-27 00:19:06

Below is generated by plot.py at 2018-01-27 05:30:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 136.226 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 76.10 Mbit/s

95th percentile per-packet one-way delay: 136.205 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.395 ms

Loss rate: 0.00%

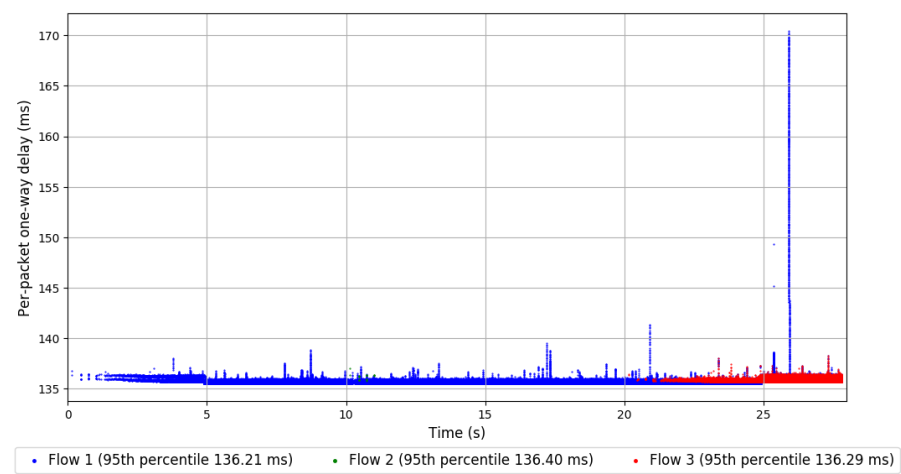
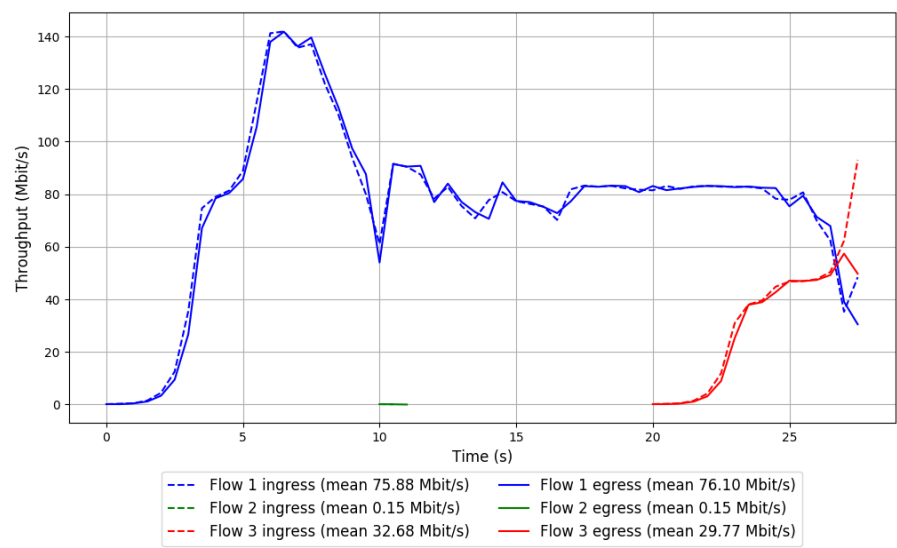
-- Flow 3:

Average throughput: 29.77 Mbit/s

95th percentile per-packet one-way delay: 136.295 ms

Loss rate: 12.04%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-27 00:34:59

End at: 2018-01-27 00:35:29

Below is generated by plot.py at 2018-01-27 05:30:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.50 Mbit/s

95th percentile per-packet one-way delay: 136.577 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 65.31 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 60.94 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 0.26%

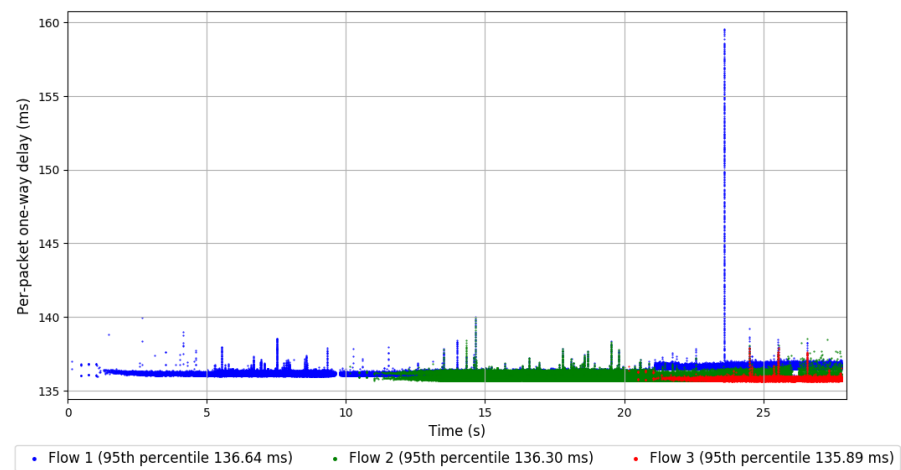
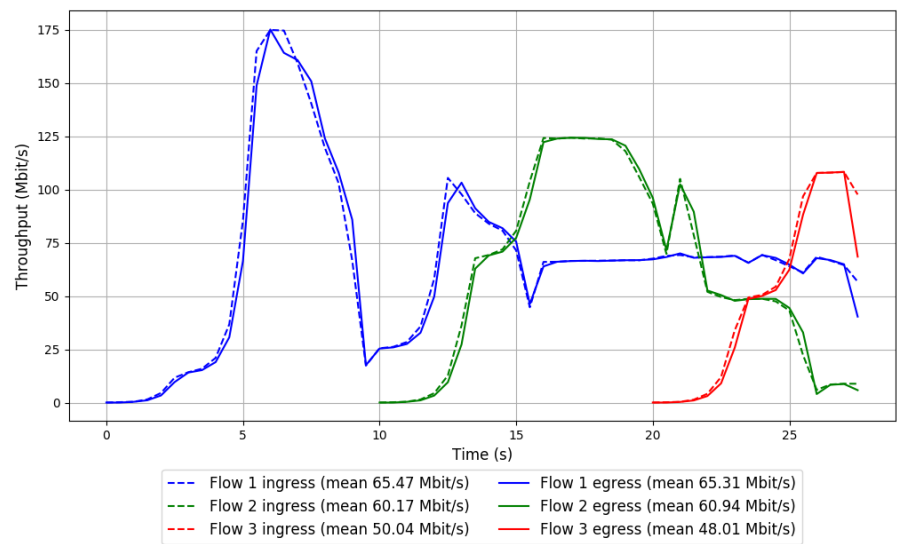
-- Flow 3:

Average throughput: 48.01 Mbit/s

95th percentile per-packet one-way delay: 135.889 ms

Loss rate: 7.36%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-27 00:51:39

End at: 2018-01-27 00:52:09

Below is generated by plot.py at 2018-01-27 05:31:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.56 Mbit/s

95th percentile per-packet one-way delay: 136.590 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 69.23 Mbit/s

95th percentile per-packet one-way delay: 136.307 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 136.751 ms

Loss rate: 1.85%

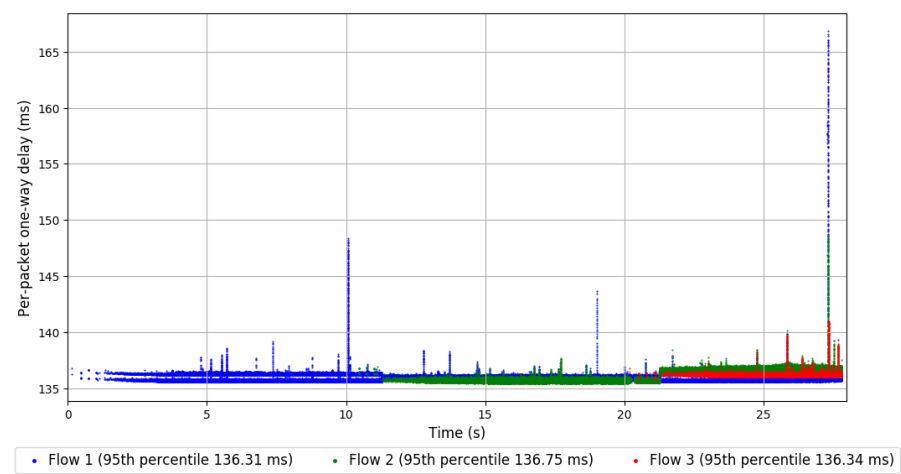
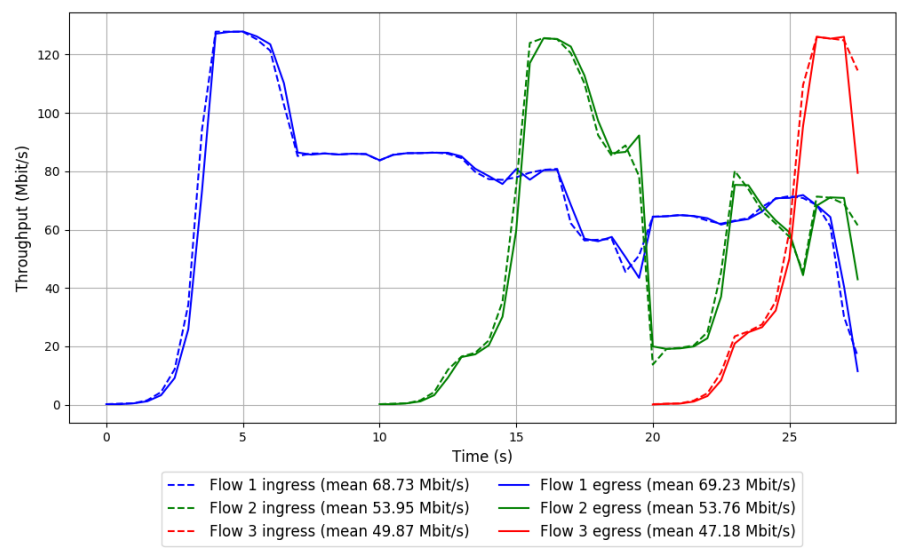
-- Flow 3:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 136.341 ms

Loss rate: 8.67%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

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

End at: 2018-01-27 01:08:31

Below is generated by plot.py at 2018-01-27 05:31:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.00 Mbit/s

95th percentile per-packet one-way delay: 136.568 ms

Loss rate: 1.73%

-- Flow 1:

Average throughput: 63.56 Mbit/s

95th percentile per-packet one-way delay: 136.594 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 55.60 Mbit/s

95th percentile per-packet one-way delay: 136.529 ms

Loss rate: 1.52%

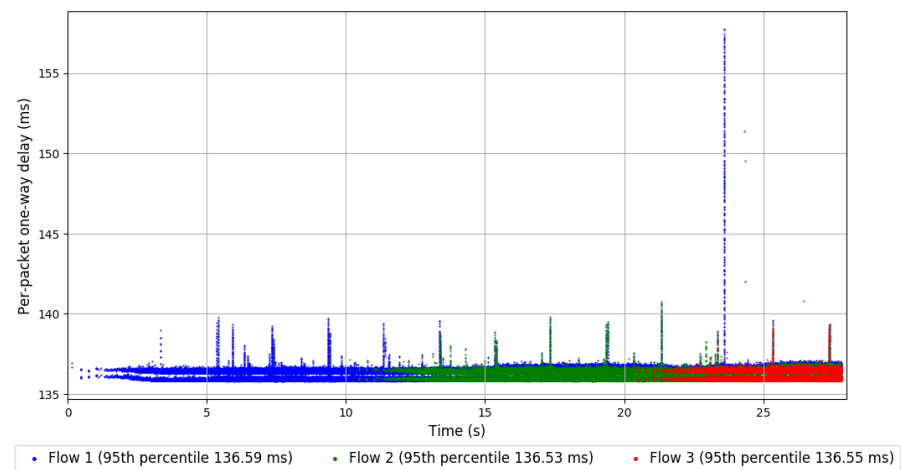
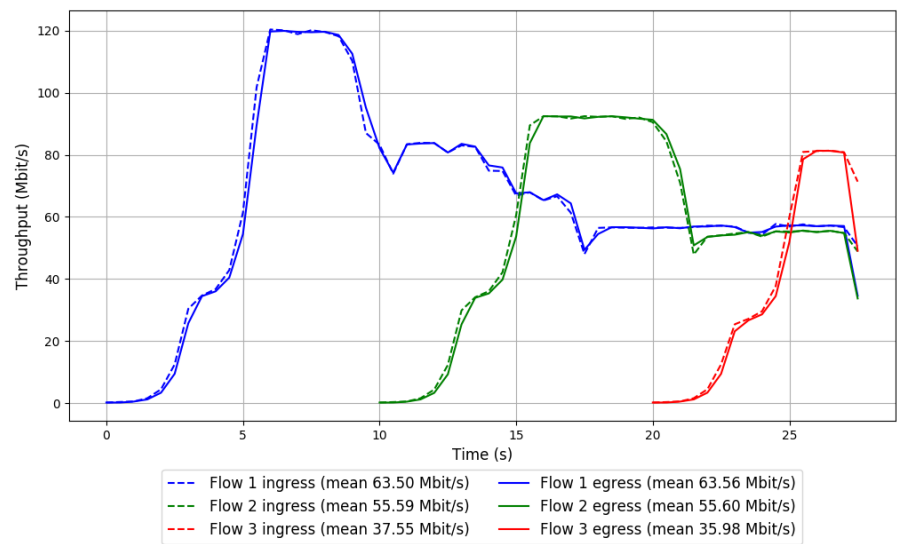
-- Flow 3:

Average throughput: 35.98 Mbit/s

95th percentile per-packet one-way delay: 136.553 ms

Loss rate: 7.48%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-27 01:23:51

End at: 2018-01-27 01:24:21

Below is generated by plot.py at 2018-01-27 05:31:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 136.617 ms

Loss rate: 2.18%

-- Flow 1:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 137.904 ms

Loss rate: 0.00%

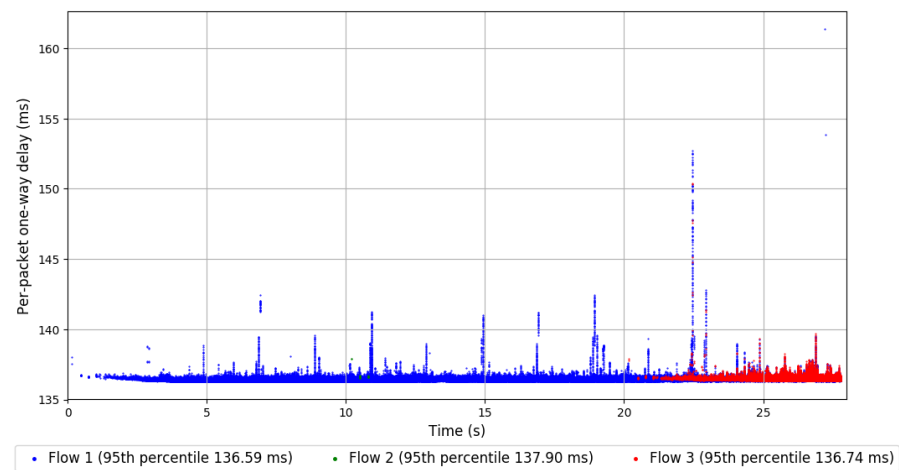
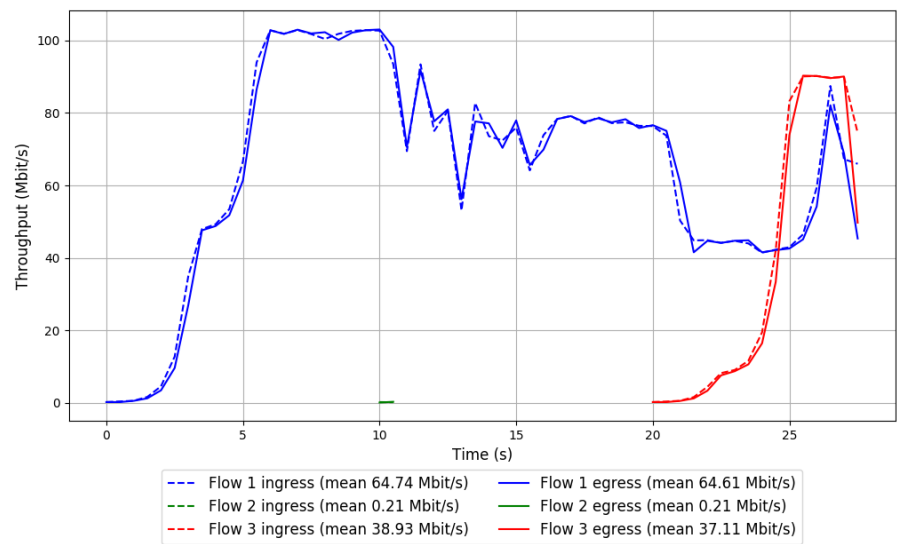
-- Flow 3:

Average throughput: 37.11 Mbit/s

95th percentile per-packet one-way delay: 136.735 ms

Loss rate: 8.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-27 01:40:09

End at: 2018-01-27 01:40:39

Below is generated by plot.py at 2018-01-27 05:31:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 162.684 ms

Loss rate: 0.68%

-- Flow 1:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 162.689 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 162.644 ms

Loss rate: 1.02%

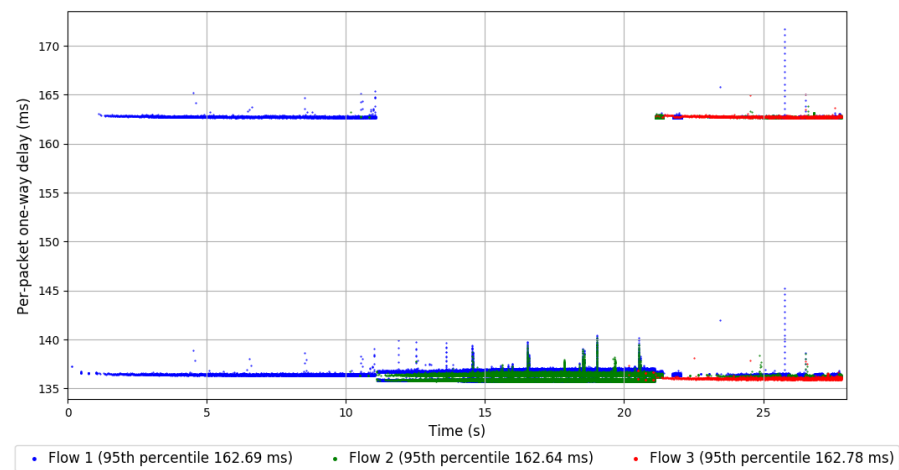
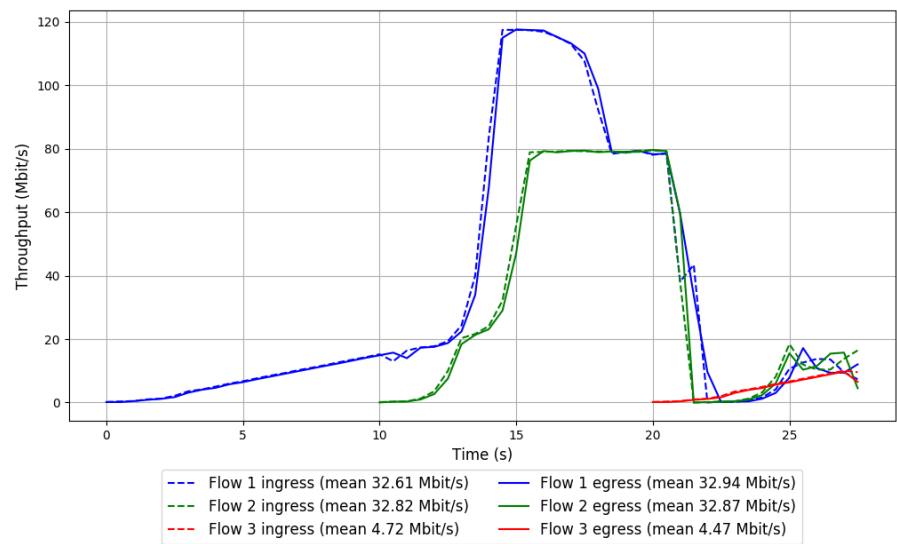
-- Flow 3:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 162.777 ms

Loss rate: 8.54%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-27 01:55:30

End at: 2018-01-27 01:56:00

Below is generated by plot.py at 2018-01-27 05:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 110.14 Mbit/s

95th percentile per-packet one-way delay: 136.892 ms

Loss rate: 1.90%

-- Flow 1:

Average throughput: 58.59 Mbit/s

95th percentile per-packet one-way delay: 136.945 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 62.55 Mbit/s

95th percentile per-packet one-way delay: 136.513 ms

Loss rate: 1.37%

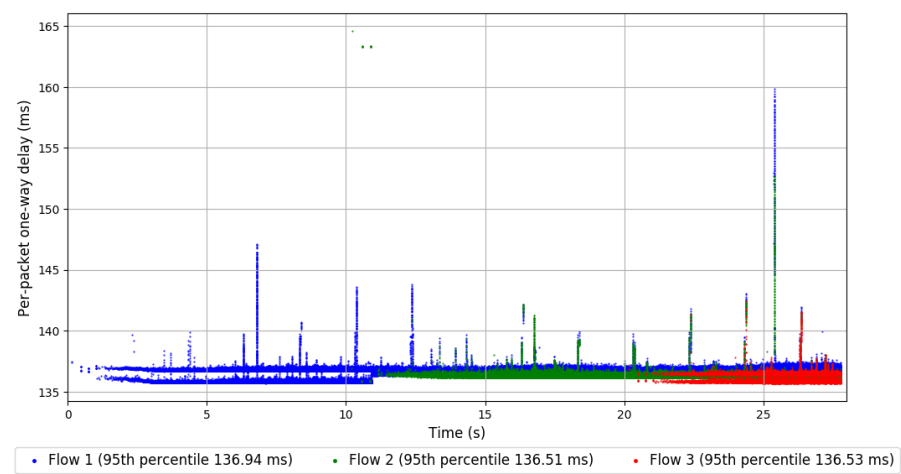
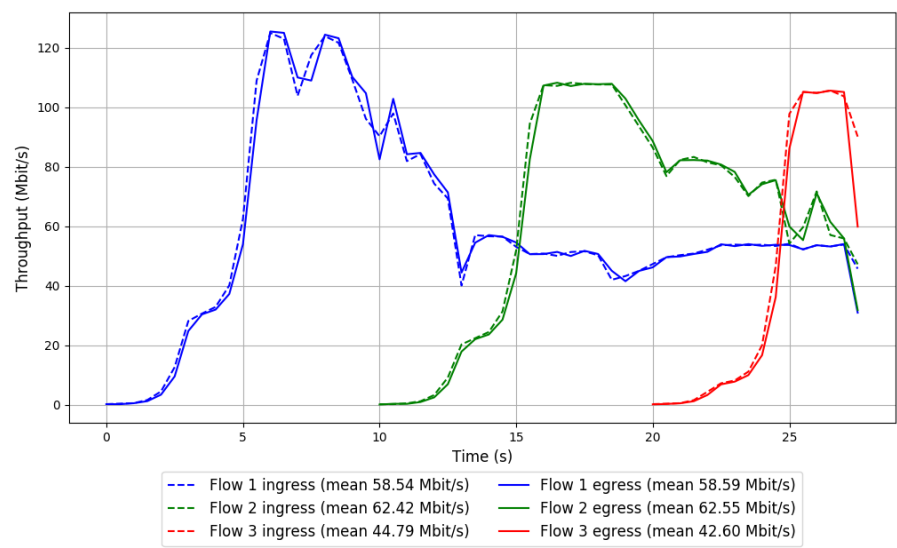
-- Flow 3:

Average throughput: 42.60 Mbit/s

95th percentile per-packet one-way delay: 136.526 ms

Loss rate: 8.18%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-27 02:11:02

End at: 2018-01-27 02:11:32

Below is generated by plot.py at 2018-01-27 05:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 18.94 Mbit/s

95th percentile per-packet one-way delay: 163.046 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 163.046 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 9.84 Mbit/s

95th percentile per-packet one-way delay: 163.043 ms

Loss rate: 1.22%

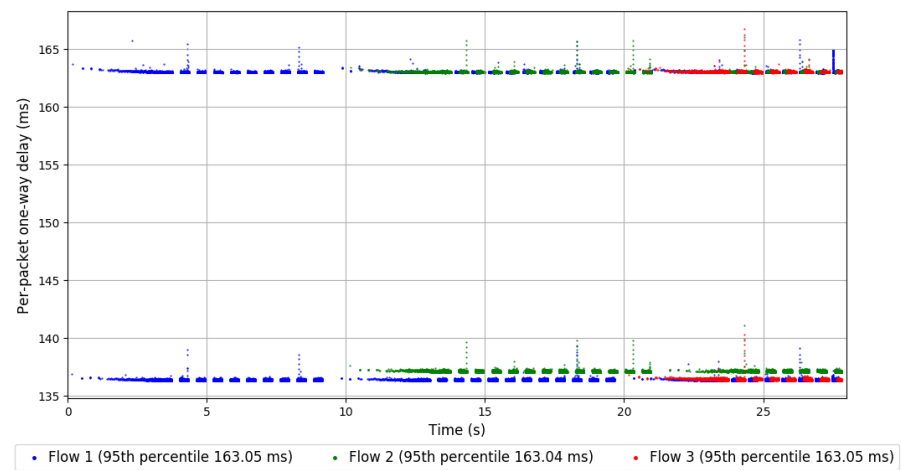
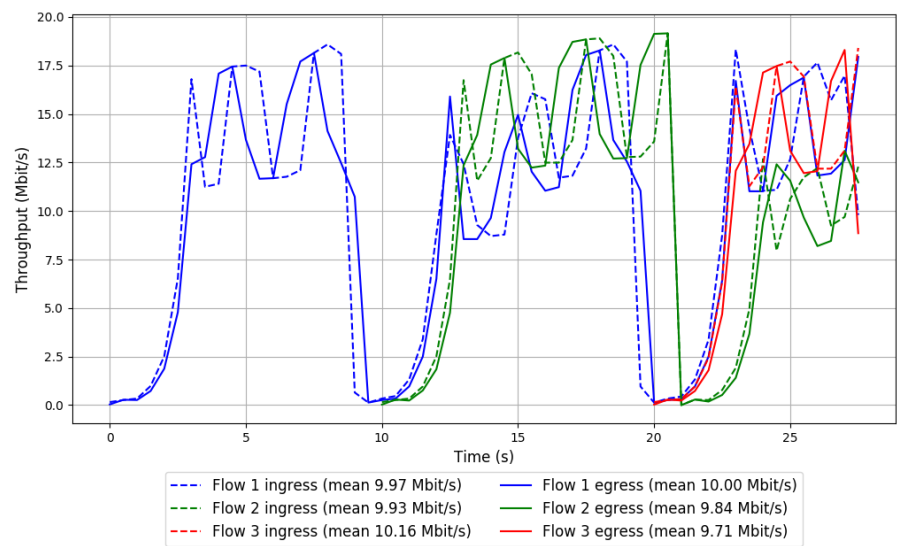
-- Flow 3:

Average throughput: 9.71 Mbit/s

95th percentile per-packet one-way delay: 163.053 ms

Loss rate: 6.03%

Run 10: Report of Copa — Data Link

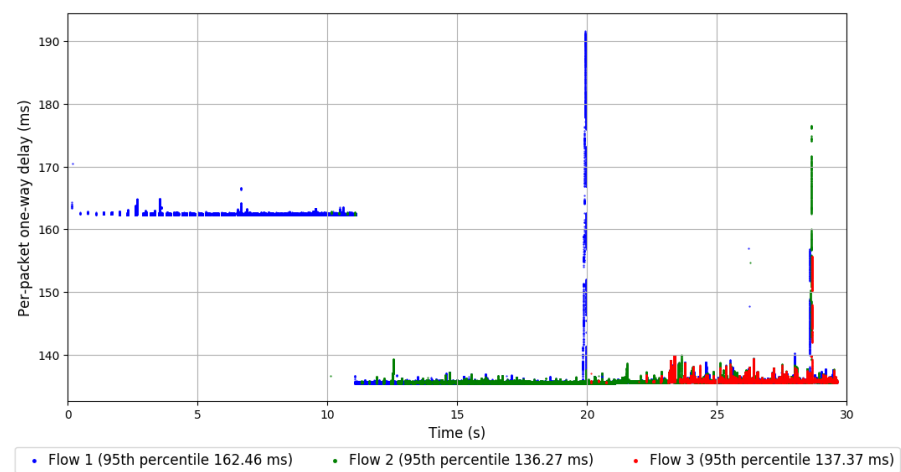
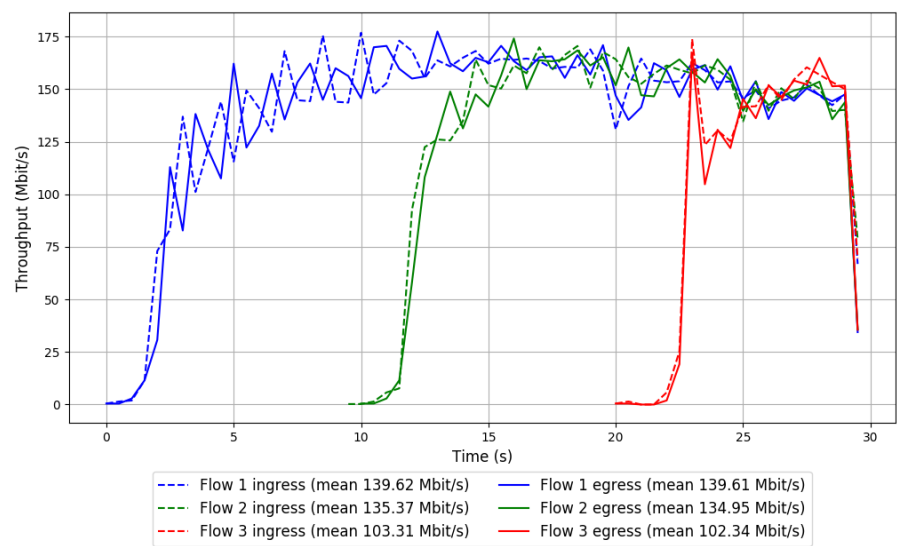


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 23:46:01
End at: 2018-01-26 23:46:31

# Below is generated by plot.py at 2018-01-27 05:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 261.85 Mbit/s
95th percentile per-packet one-way delay: 162.433 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 139.61 Mbit/s
95th percentile per-packet one-way delay: 162.460 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 134.95 Mbit/s
95th percentile per-packet one-way delay: 136.269 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 102.34 Mbit/s
95th percentile per-packet one-way delay: 137.365 ms
Loss rate: 3.73%
```


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

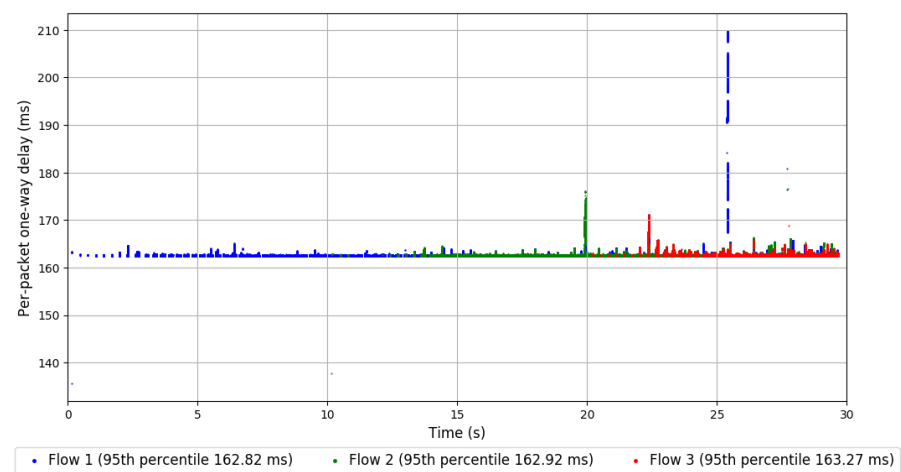
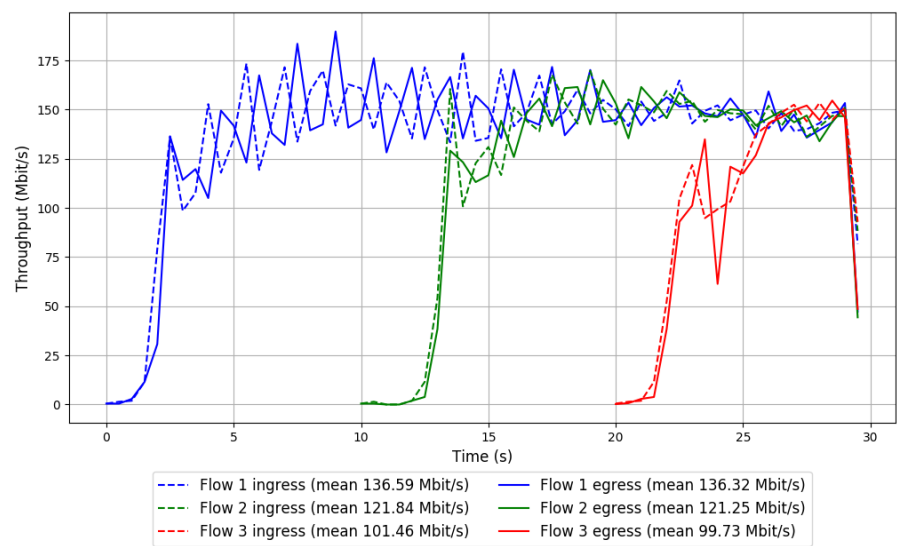


```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-27 00:01:40
End at: 2018-01-27 00:02:10

# Below is generated by plot.py at 2018-01-27 05:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.31 Mbit/s
95th percentile per-packet one-way delay: 162.909 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 136.32 Mbit/s
95th percentile per-packet one-way delay: 162.822 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 121.25 Mbit/s
95th percentile per-packet one-way delay: 162.916 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 99.73 Mbit/s
95th percentile per-packet one-way delay: 163.272 ms
Loss rate: 4.71%
```

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

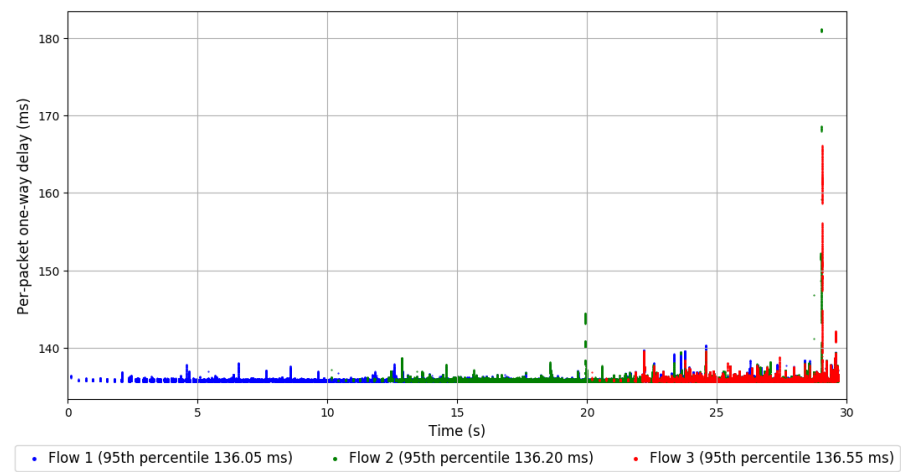
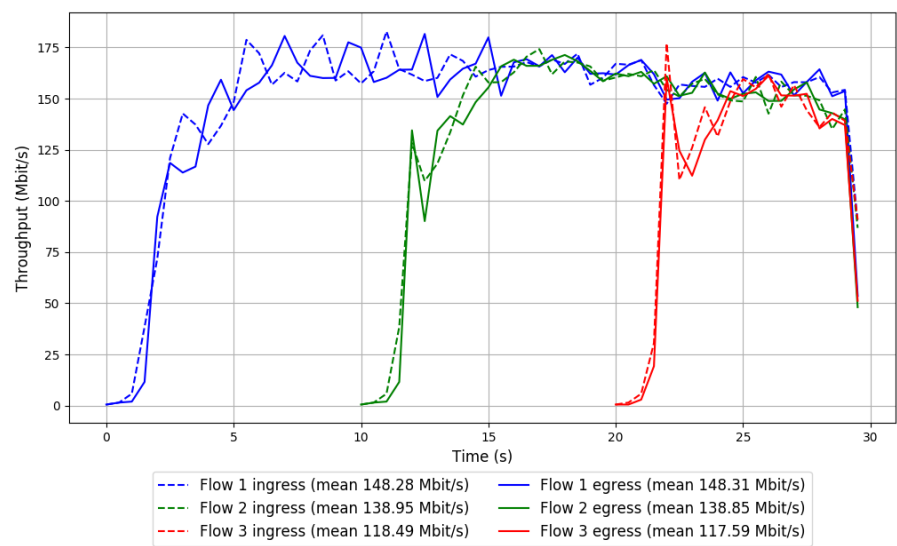


```
Run 3: Statistics of Indigo-2-256

Start at: 2018-01-27 00:17:22
End at: 2018-01-27 00:17:52

# Below is generated by plot.py at 2018-01-27 05:35:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.78 Mbit/s
95th percentile per-packet one-way delay: 136.173 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 148.31 Mbit/s
95th percentile per-packet one-way delay: 136.049 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 138.85 Mbit/s
95th percentile per-packet one-way delay: 136.200 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 117.59 Mbit/s
95th percentile per-packet one-way delay: 136.553 ms
Loss rate: 3.53%
```

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



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-27 00:33:48

End at: 2018-01-27 00:34:18

Below is generated by plot.py at 2018-01-27 05:35:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 256.60 Mbit/s

95th percentile per-packet one-way delay: 136.596 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 135.02 Mbit/s

95th percentile per-packet one-way delay: 136.436 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 133.87 Mbit/s

95th percentile per-packet one-way delay: 136.736 ms

Loss rate: 1.58%

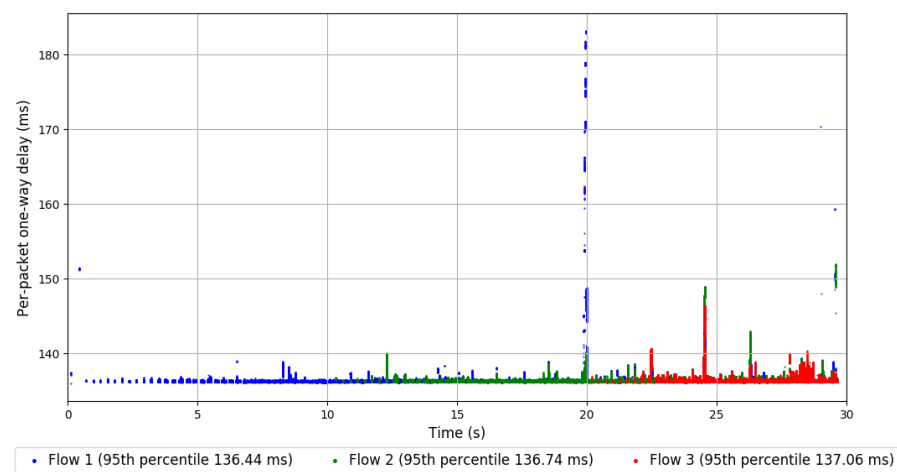
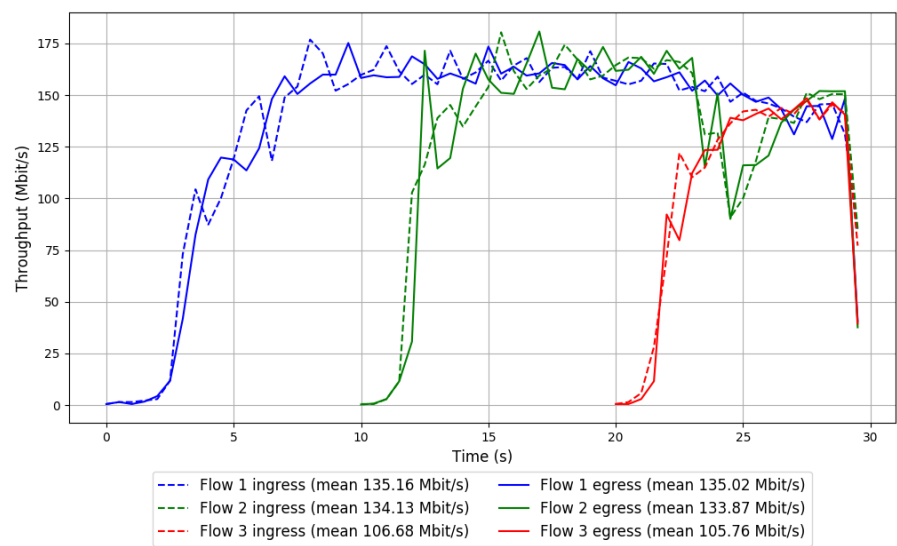
-- Flow 3:

Average throughput: 105.76 Mbit/s

95th percentile per-packet one-way delay: 137.060 ms

Loss rate: 3.65%

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



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-27 00:50:27

End at: 2018-01-27 00:50:57

Below is generated by plot.py at 2018-01-27 05:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 269.54 Mbit/s

95th percentile per-packet one-way delay: 136.517 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 145.36 Mbit/s

95th percentile per-packet one-way delay: 136.449 ms

Loss rate: 1.19%

-- Flow 2:

Average throughput: 136.05 Mbit/s

95th percentile per-packet one-way delay: 136.518 ms

Loss rate: 1.41%

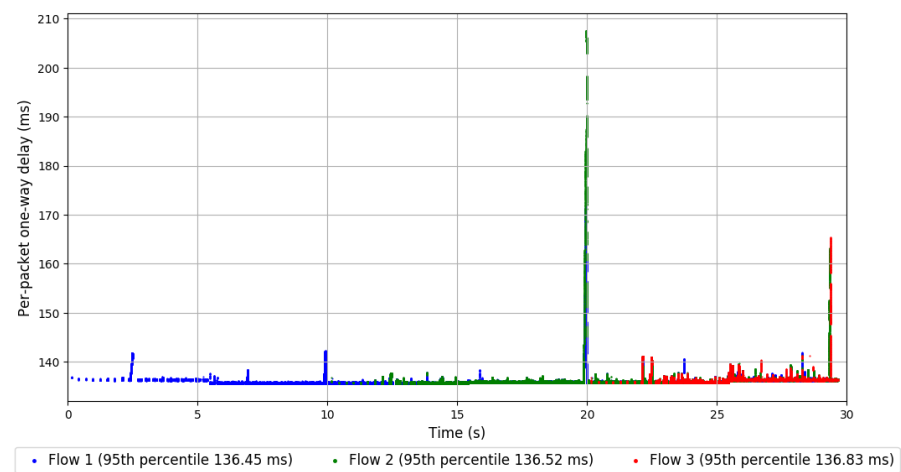
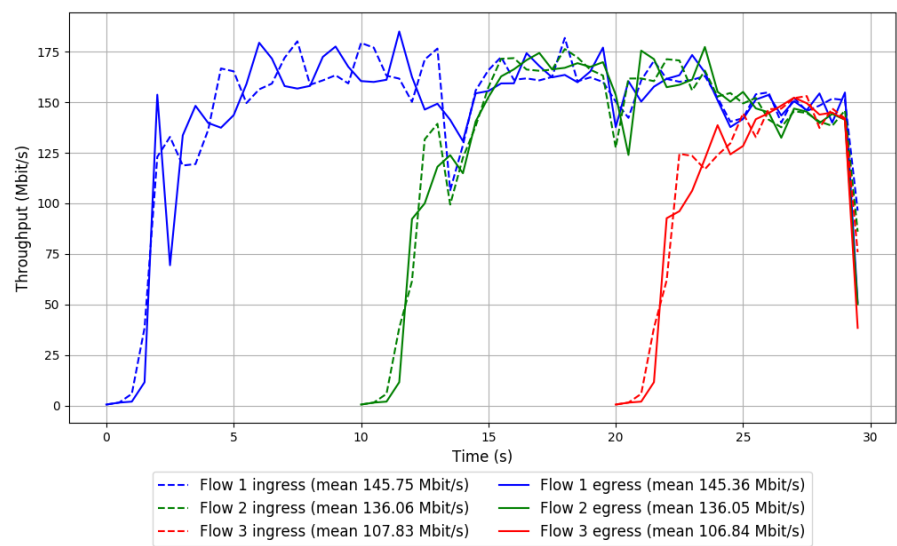
-- Flow 3:

Average throughput: 106.84 Mbit/s

95th percentile per-packet one-way delay: 136.831 ms

Loss rate: 3.60%

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



Run 6: Statistics of Indigo-2-256

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

End at: 2018-01-27 01:07:19

Below is generated by plot.py at 2018-01-27 05:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.54 Mbit/s

95th percentile per-packet one-way delay: 136.559 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 138.17 Mbit/s

95th percentile per-packet one-way delay: 136.527 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 127.84 Mbit/s

95th percentile per-packet one-way delay: 136.600 ms

Loss rate: 1.51%

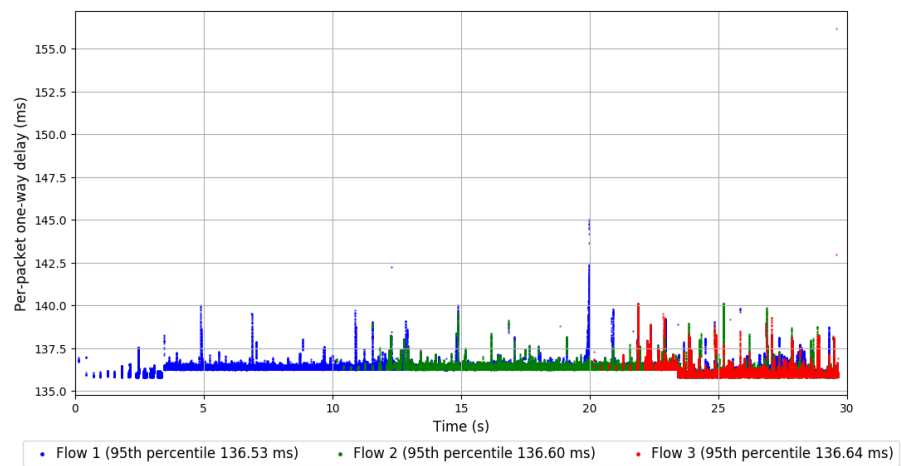
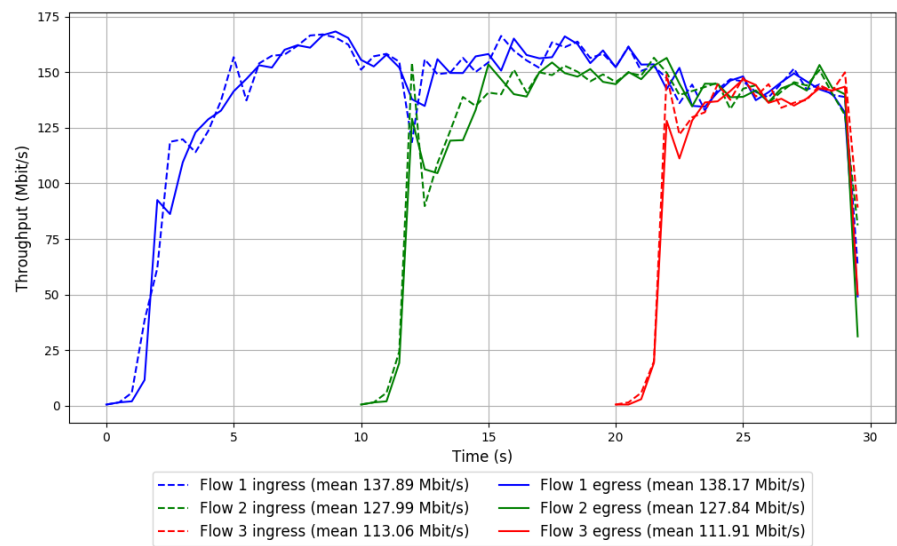
-- Flow 3:

Average throughput: 111.91 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 3.80%

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



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-27 01:22:52

End at: 2018-01-27 01:23:22

Below is generated by plot.py at 2018-01-27 05:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 118.54 Mbit/s

95th percentile per-packet one-way delay: 162.797 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 83.73 Mbit/s

95th percentile per-packet one-way delay: 162.825 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 162.926 ms

Loss rate: 3.37%

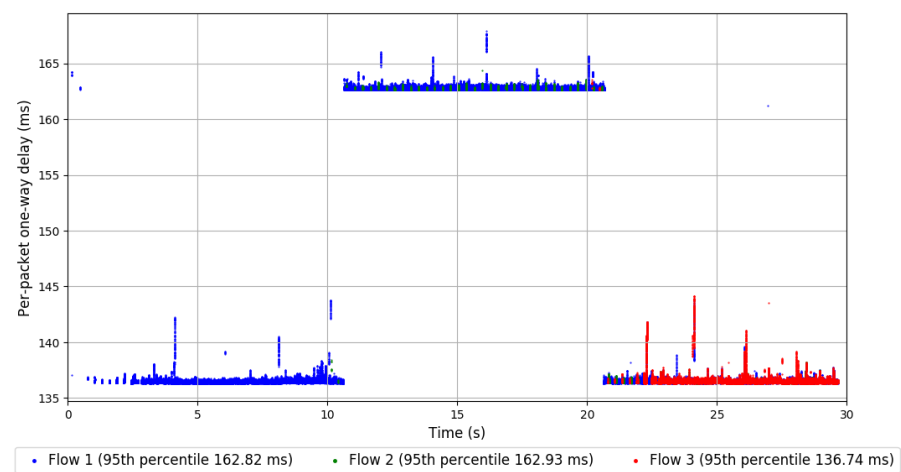
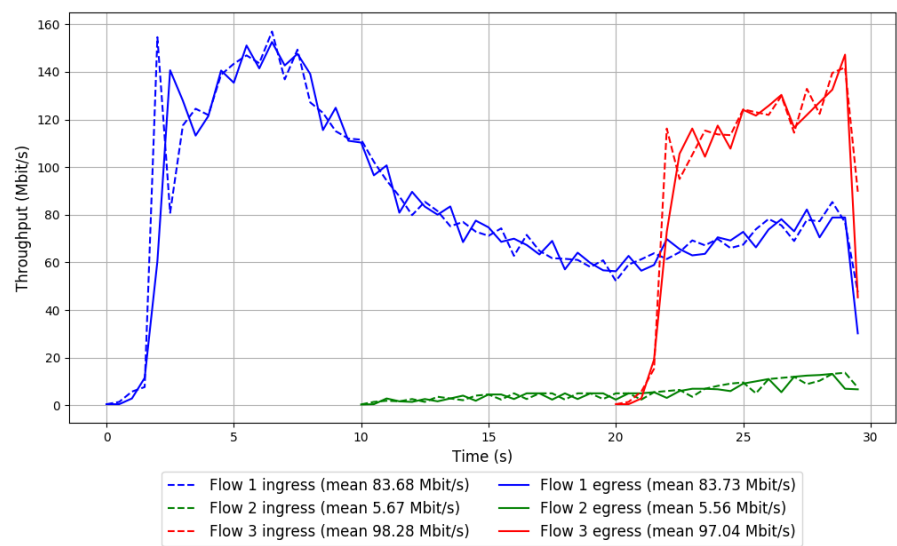
-- Flow 3:

Average throughput: 97.04 Mbit/s

95th percentile per-packet one-way delay: 136.738 ms

Loss rate: 4.26%

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



Run 8: Statistics of Indigo-2-256

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

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

Below is generated by plot.py at 2018-01-27 05:37:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.13 Mbit/s

95th percentile per-packet one-way delay: 163.037 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 124.27 Mbit/s

95th percentile per-packet one-way delay: 163.024 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 123.98 Mbit/s

95th percentile per-packet one-way delay: 163.004 ms

Loss rate: 1.74%

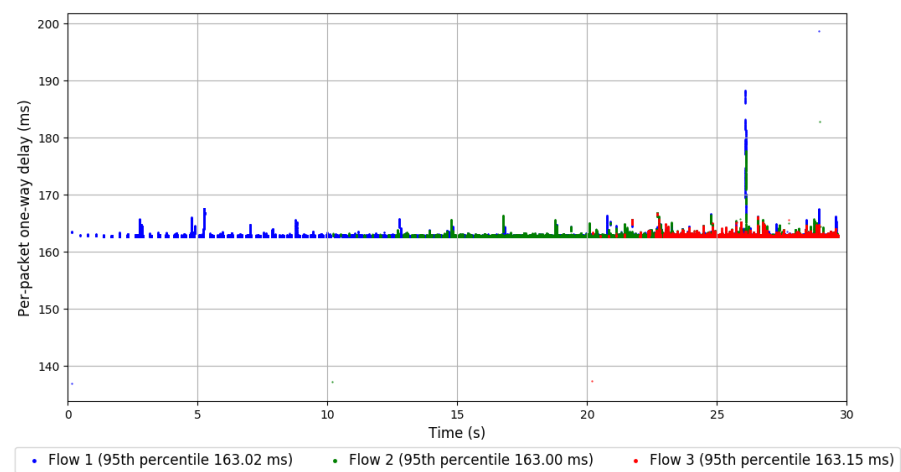
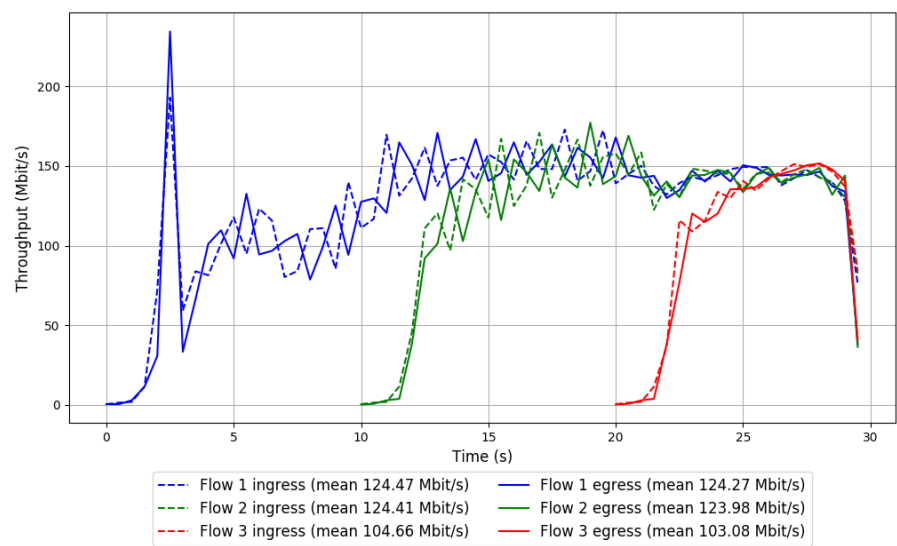
-- Flow 3:

Average throughput: 103.08 Mbit/s

95th percentile per-packet one-way delay: 163.153 ms

Loss rate: 4.29%

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



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-27 01:54:32

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

Below is generated by plot.py at 2018-01-27 05:37:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.96 Mbit/s

95th percentile per-packet one-way delay: 163.094 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 64.26 Mbit/s

95th percentile per-packet one-way delay: 163.129 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 6.37 Mbit/s

95th percentile per-packet one-way delay: 163.200 ms

Loss rate: 2.47%

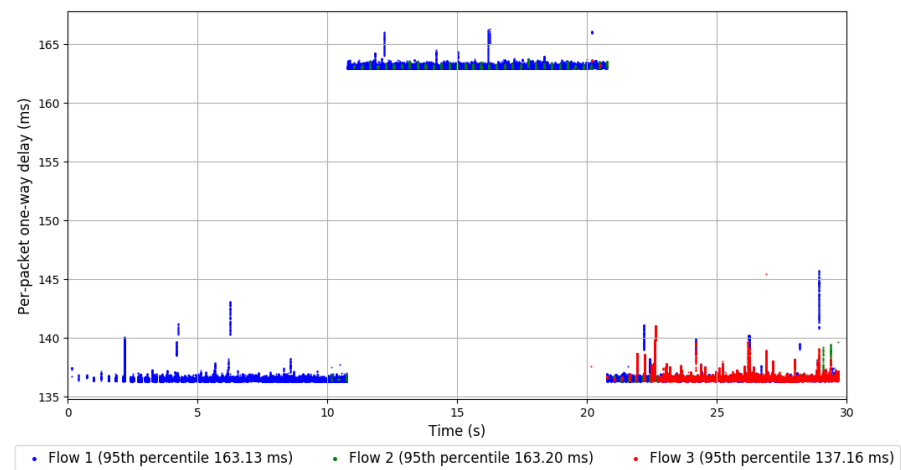
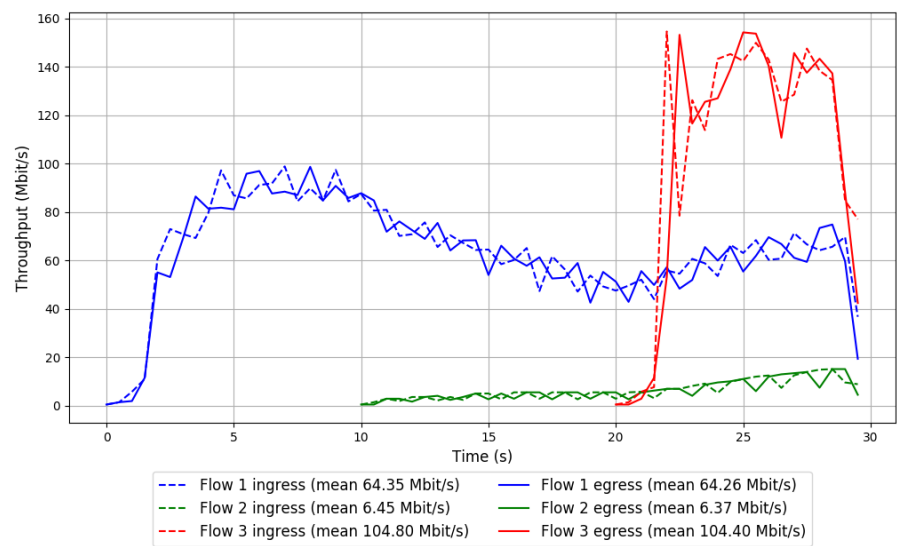
-- Flow 3:

Average throughput: 104.40 Mbit/s

95th percentile per-packet one-way delay: 137.162 ms

Loss rate: 3.19%

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



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-27 02:09:49

End at: 2018-01-27 02:10:19

Below is generated by plot.py at 2018-01-27 05:38:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.53 Mbit/s

95th percentile per-packet one-way delay: 163.033 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 143.93 Mbit/s

95th percentile per-packet one-way delay: 163.059 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 138.19 Mbit/s

95th percentile per-packet one-way delay: 138.590 ms

Loss rate: 1.46%

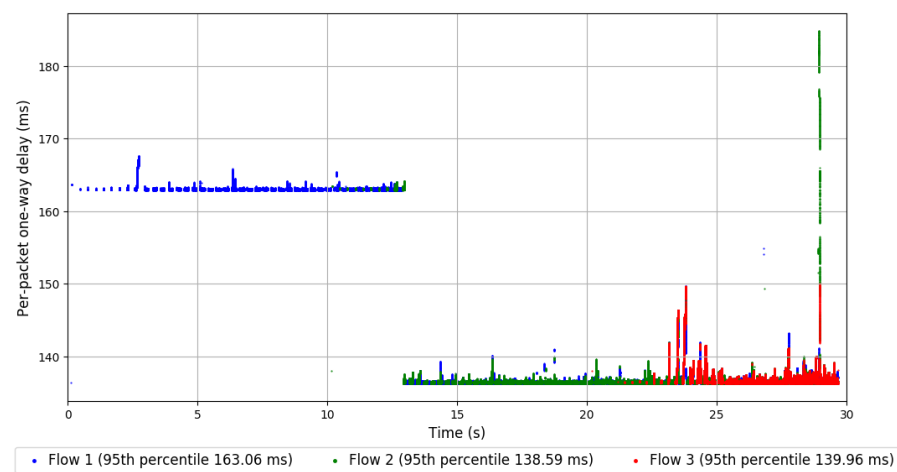
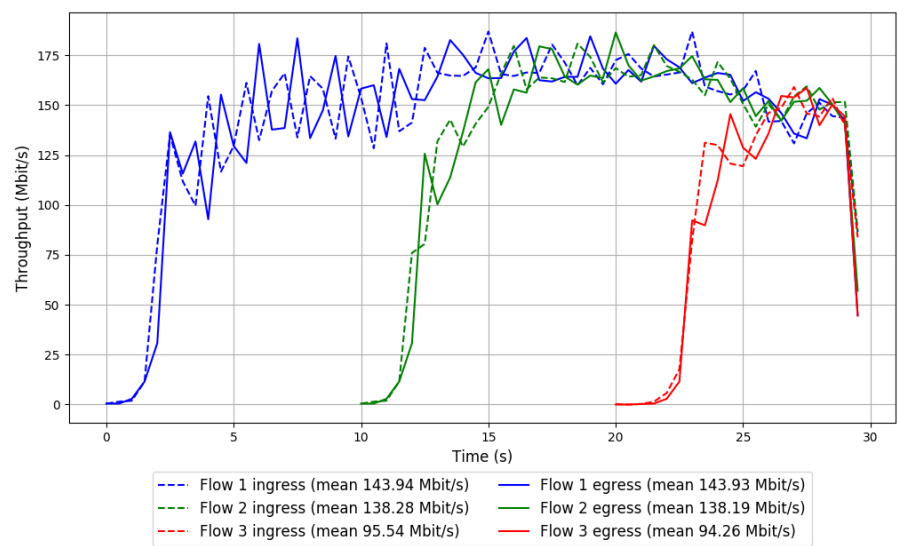
-- Flow 3:

Average throughput: 94.26 Mbit/s

95th percentile per-packet one-way delay: 139.963 ms

Loss rate: 4.10%

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

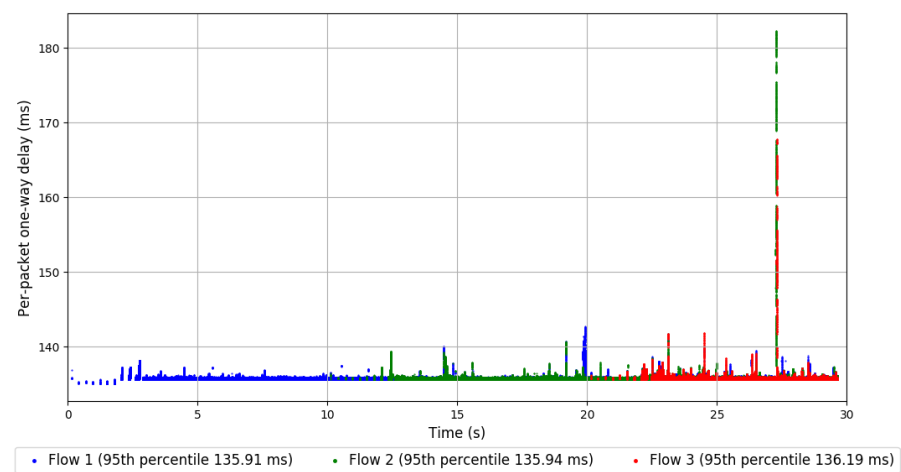
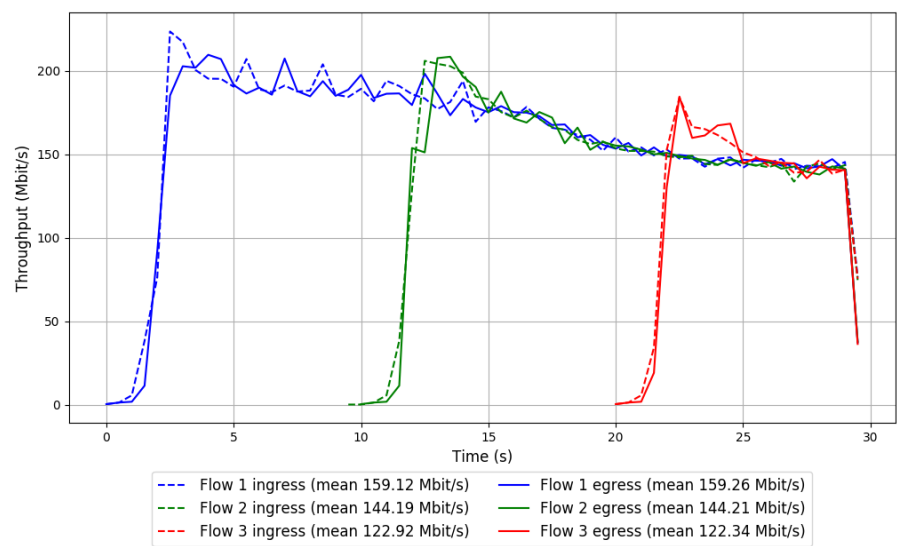


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 23:41:20
End at: 2018-01-26 23:41:50

# Below is generated by plot.py at 2018-01-27 05:39:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.92 Mbit/s
95th percentile per-packet one-way delay: 135.955 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 159.26 Mbit/s
95th percentile per-packet one-way delay: 135.906 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 144.21 Mbit/s
95th percentile per-packet one-way delay: 135.942 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 122.34 Mbit/s
95th percentile per-packet one-way delay: 136.190 ms
Loss rate: 3.25%
```

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

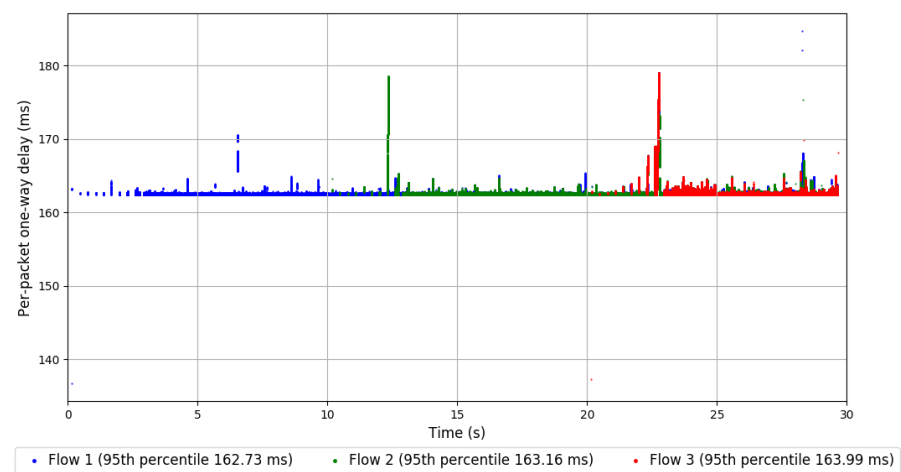
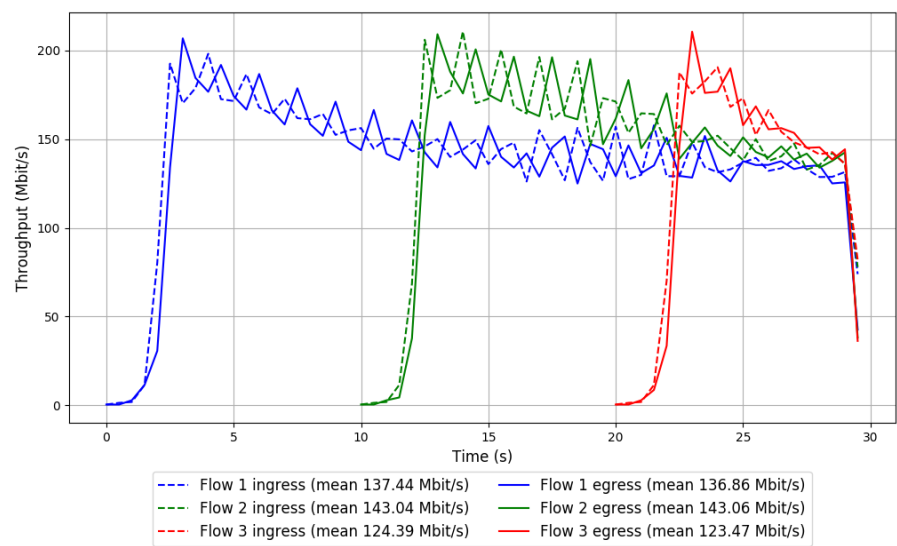


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 23:57:08
End at: 2018-01-26 23:57:38

# Below is generated by plot.py at 2018-01-27 05:39:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 270.91 Mbit/s
95th percentile per-packet one-way delay: 163.046 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 136.86 Mbit/s
95th percentile per-packet one-way delay: 162.733 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 143.06 Mbit/s
95th percentile per-packet one-way delay: 163.163 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 123.47 Mbit/s
95th percentile per-packet one-way delay: 163.992 ms
Loss rate: 3.48%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-27 00:12:46

End at: 2018-01-27 00:13:16

Below is generated by plot.py at 2018-01-27 05:39:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 263.61 Mbit/s

95th percentile per-packet one-way delay: 162.557 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 130.59 Mbit/s

95th percentile per-packet one-way delay: 162.548 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 140.98 Mbit/s

95th percentile per-packet one-way delay: 162.576 ms

Loss rate: 1.33%

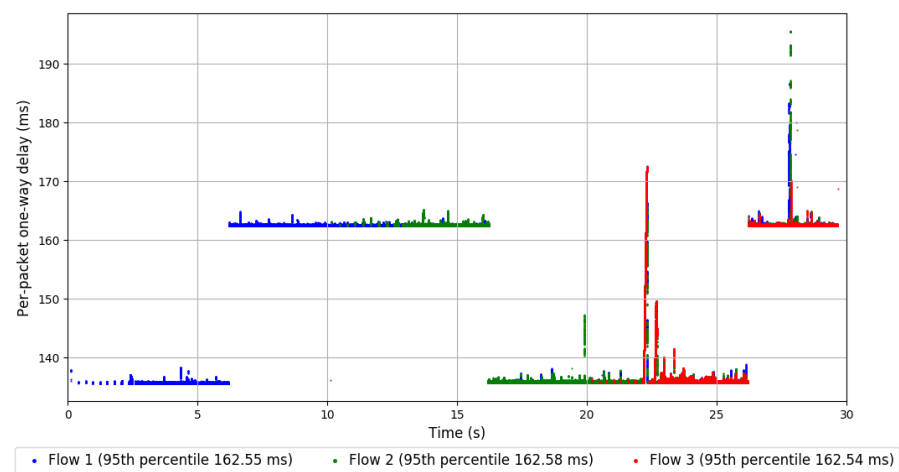
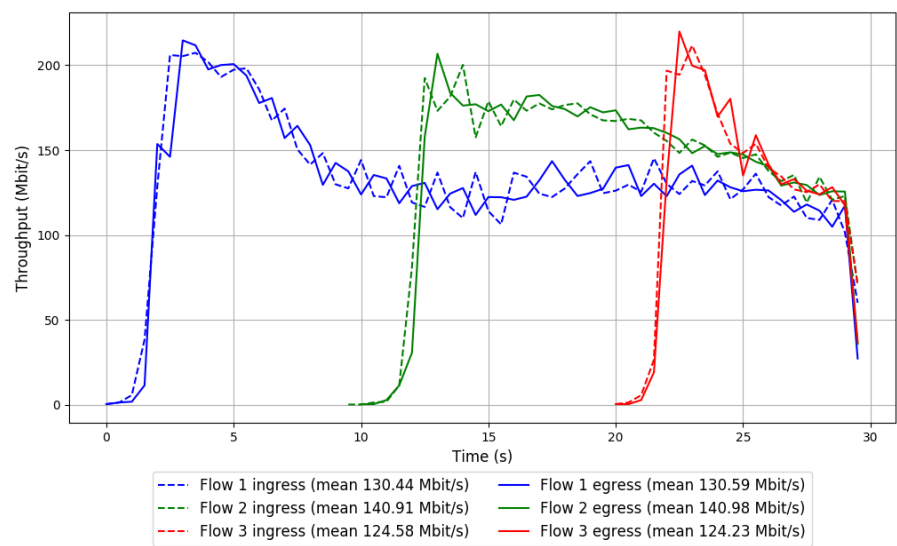
-- Flow 3:

Average throughput: 124.23 Mbit/s

95th percentile per-packet one-way delay: 162.543 ms

Loss rate: 2.99%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-27 00:29:10

End at: 2018-01-27 00:29:40

Below is generated by plot.py at 2018-01-27 05:39:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.98 Mbit/s

95th percentile per-packet one-way delay: 136.386 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 150.76 Mbit/s

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

Loss rate: 0.99%

-- Flow 2:

Average throughput: 150.12 Mbit/s

95th percentile per-packet one-way delay: 136.396 ms

Loss rate: 1.51%

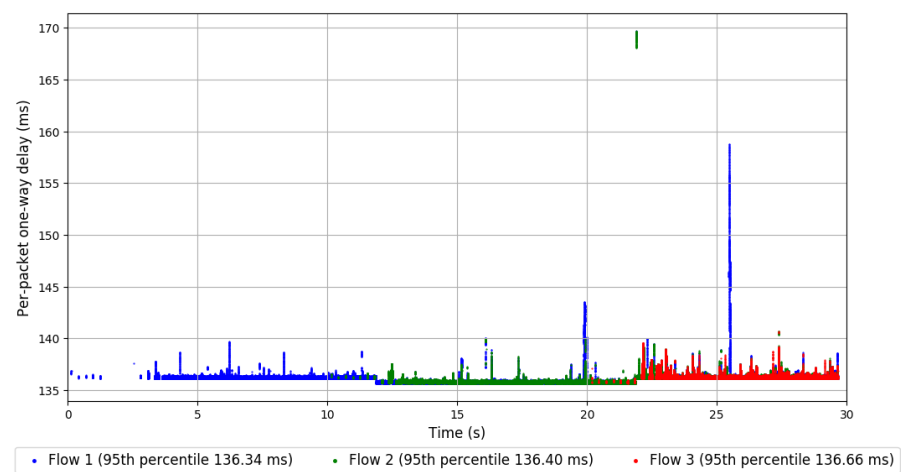
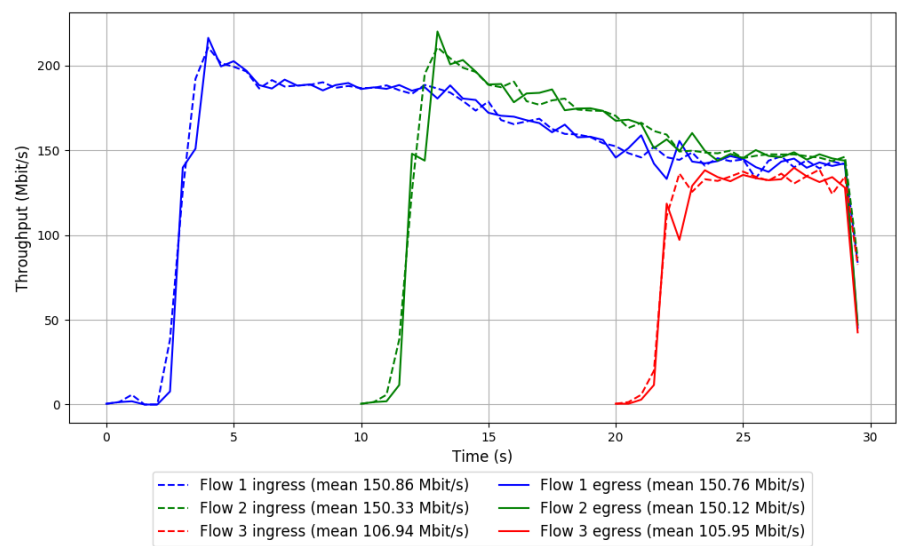
-- Flow 3:

Average throughput: 105.95 Mbit/s

95th percentile per-packet one-way delay: 136.659 ms

Loss rate: 3.65%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-27 00:45:44

End at: 2018-01-27 00:46:14

Below is generated by plot.py at 2018-01-27 05:40:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.09 Mbit/s

95th percentile per-packet one-way delay: 136.828 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 160.15 Mbit/s

95th percentile per-packet one-way delay: 136.623 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 154.07 Mbit/s

95th percentile per-packet one-way delay: 136.762 ms

Loss rate: 1.24%

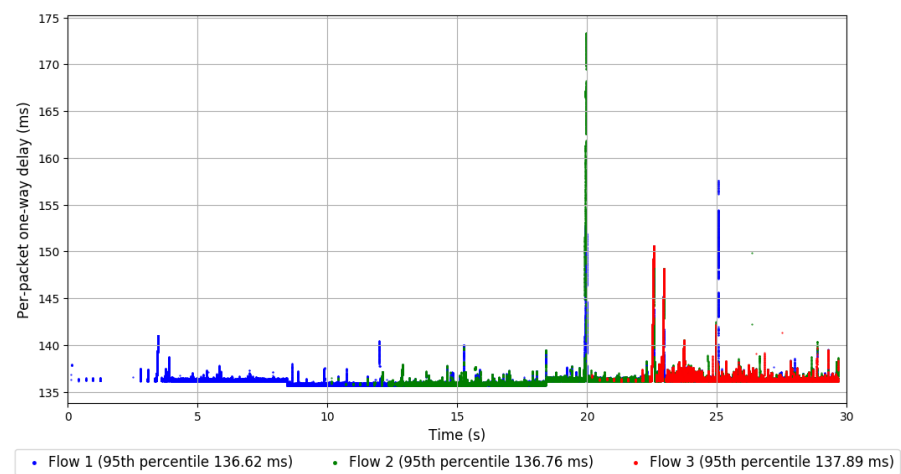
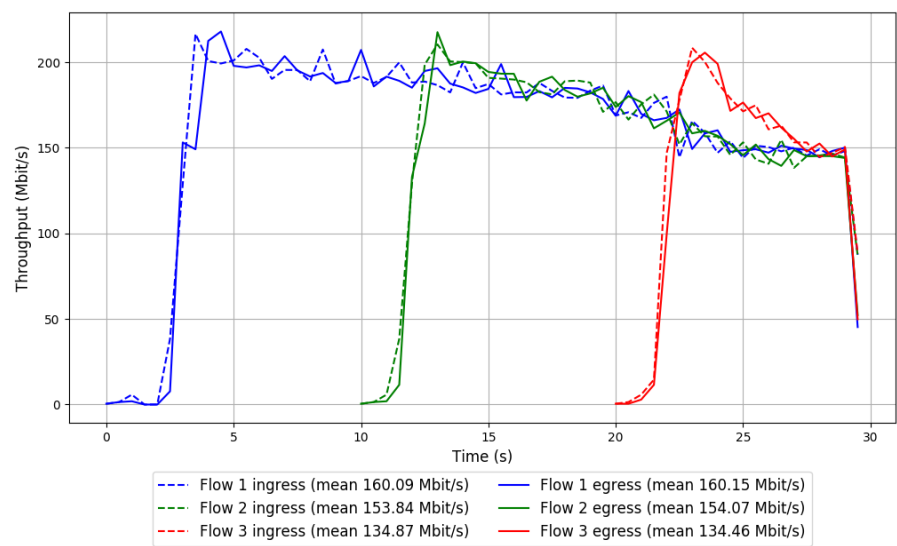
-- Flow 3:

Average throughput: 134.46 Mbit/s

95th percentile per-packet one-way delay: 137.887 ms

Loss rate: 3.08%

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



Run 6: Statistics of Indigo-1-32

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

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

Below is generated by plot.py at 2018-01-27 05:40:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.34 Mbit/s

95th percentile per-packet one-way delay: 136.439 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 142.89 Mbit/s

95th percentile per-packet one-way delay: 136.414 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 139.66 Mbit/s

95th percentile per-packet one-way delay: 136.498 ms

Loss rate: 1.41%

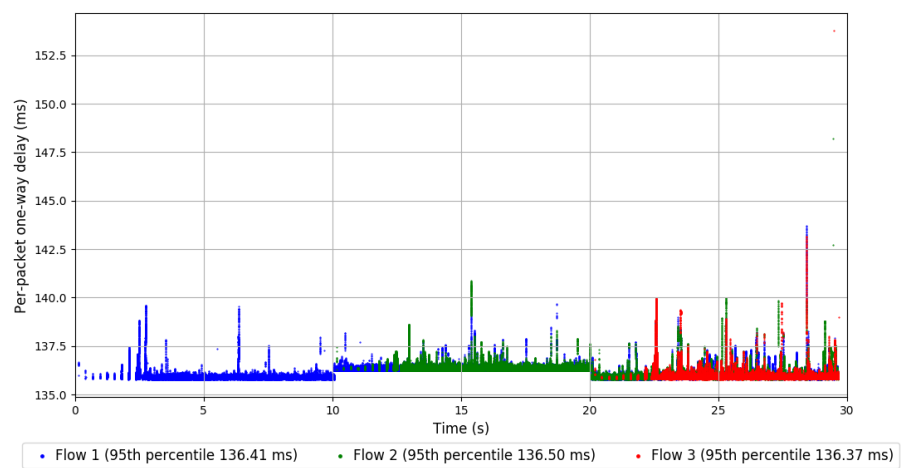
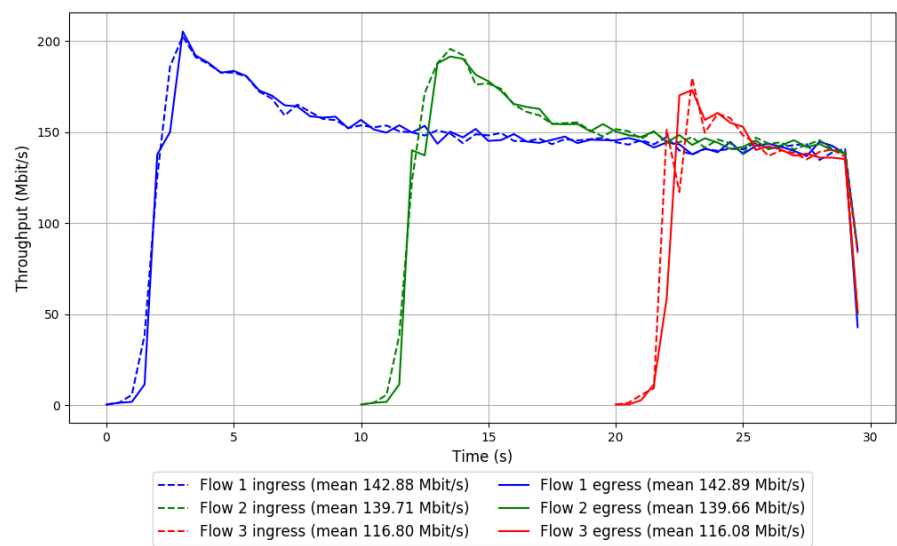
-- Flow 3:

Average throughput: 116.08 Mbit/s

95th percentile per-packet one-way delay: 136.373 ms

Loss rate: 3.34%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-27 01:18:16

End at: 2018-01-27 01:18:46

Below is generated by plot.py at 2018-01-27 05:41:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.16 Mbit/s

95th percentile per-packet one-way delay: 136.936 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 122.21 Mbit/s

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

Loss rate: 0.99%

-- Flow 2:

Average throughput: 124.13 Mbit/s

95th percentile per-packet one-way delay: 136.986 ms

Loss rate: 1.53%

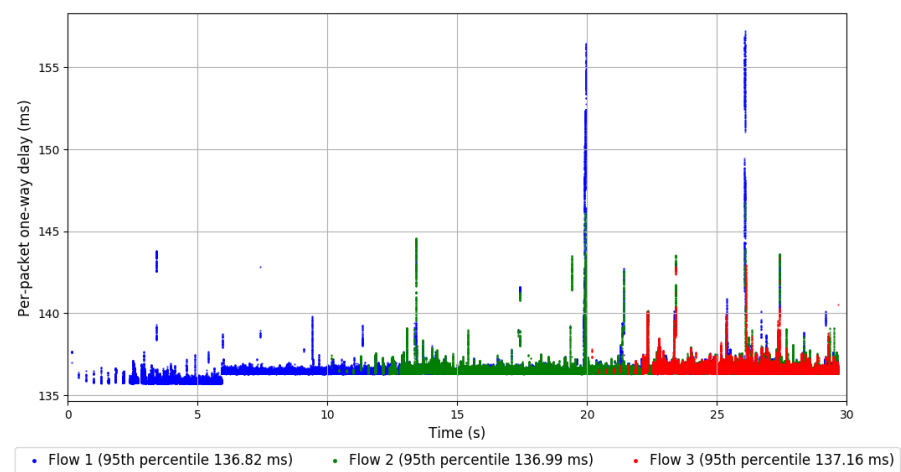
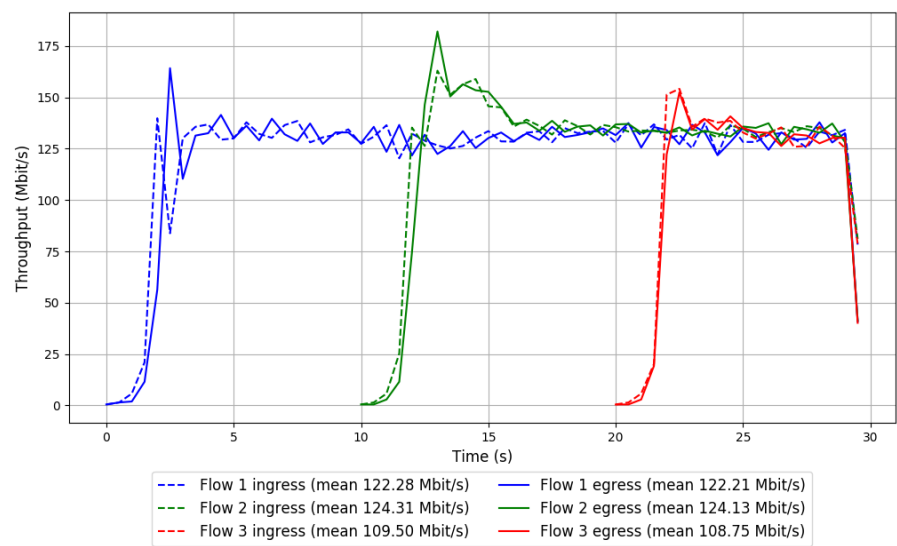
-- Flow 3:

Average throughput: 108.75 Mbit/s

95th percentile per-packet one-way delay: 137.165 ms

Loss rate: 3.44%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-27 01:34:24

End at: 2018-01-27 01:34:54

Below is generated by plot.py at 2018-01-27 05:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 278.57 Mbit/s

95th percentile per-packet one-way delay: 162.800 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 147.53 Mbit/s

95th percentile per-packet one-way delay: 162.805 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 139.30 Mbit/s

95th percentile per-packet one-way delay: 162.812 ms

Loss rate: 1.33%

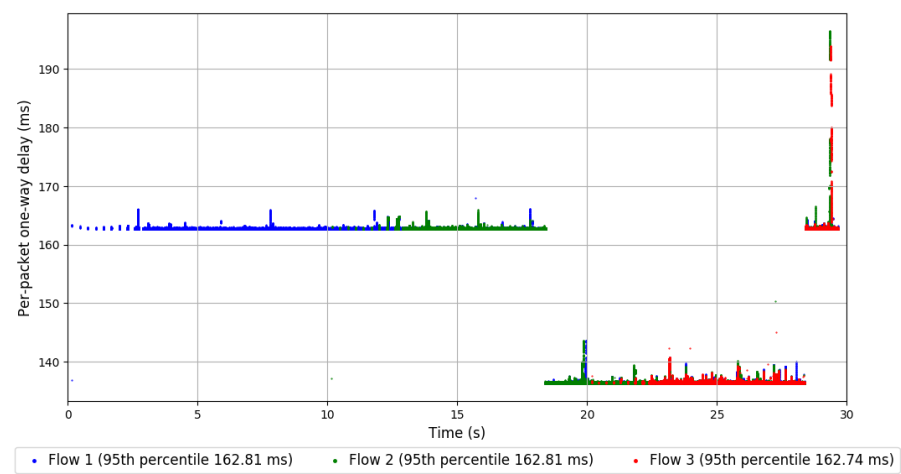
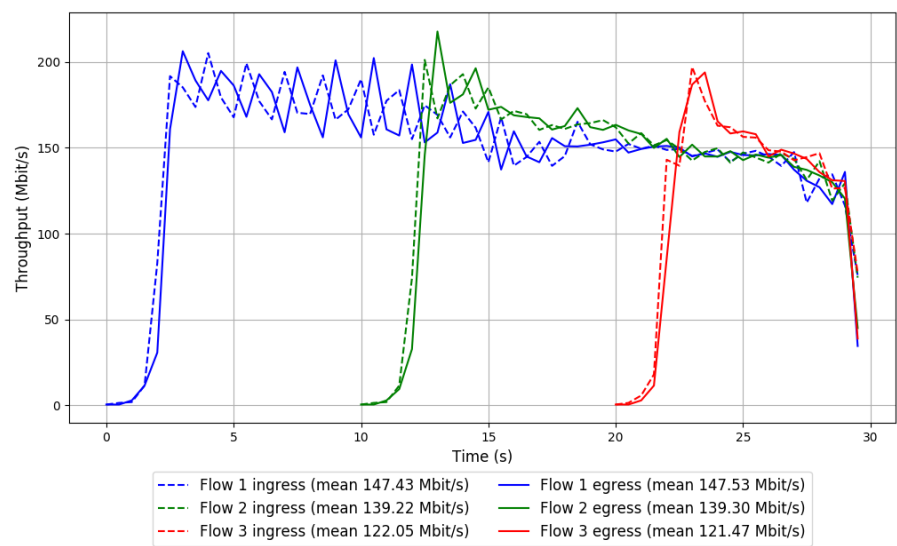
-- Flow 3:

Average throughput: 121.47 Mbit/s

95th percentile per-packet one-way delay: 162.744 ms

Loss rate: 3.28%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-27 01:49:59

End at: 2018-01-27 01:50:29

Below is generated by plot.py at 2018-01-27 05:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 228.37 Mbit/s

95th percentile per-packet one-way delay: 163.447 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 120.70 Mbit/s

95th percentile per-packet one-way delay: 163.380 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 116.99 Mbit/s

95th percentile per-packet one-way delay: 163.485 ms

Loss rate: 1.67%

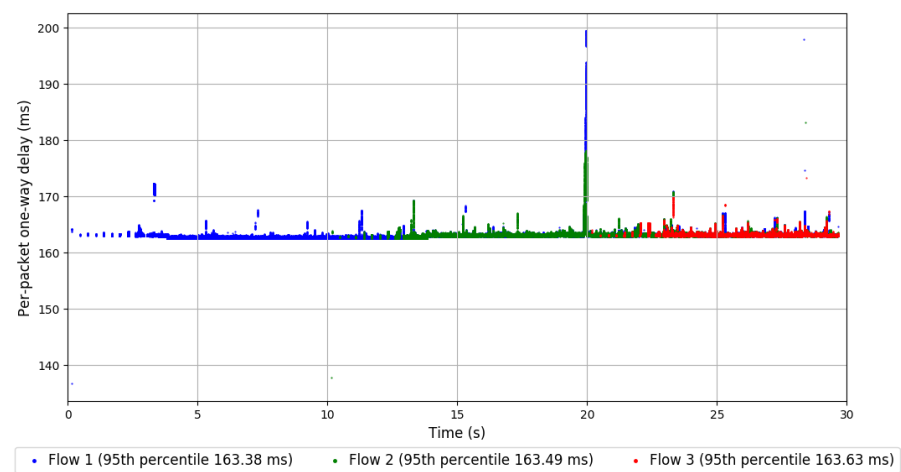
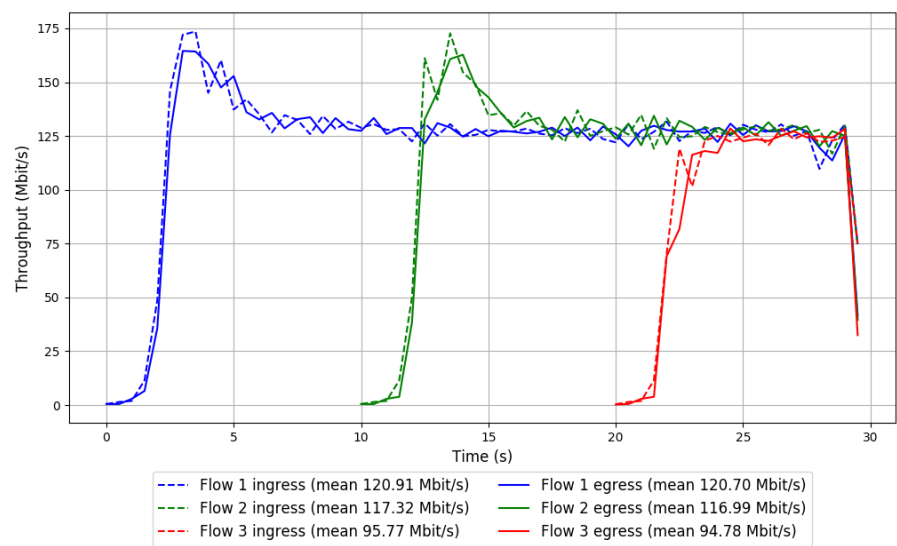
-- Flow 3:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 163.630 ms

Loss rate: 4.10%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-27 02:05:12

End at: 2018-01-27 02:05:42

Below is generated by plot.py at 2018-01-27 05:43:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 237.81 Mbit/s

95th percentile per-packet one-way delay: 163.059 ms

Loss rate: 1.41%

-- Flow 1:

Average throughput: 121.98 Mbit/s

95th percentile per-packet one-way delay: 163.118 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 123.09 Mbit/s

95th percentile per-packet one-way delay: 136.839 ms

Loss rate: 1.37%

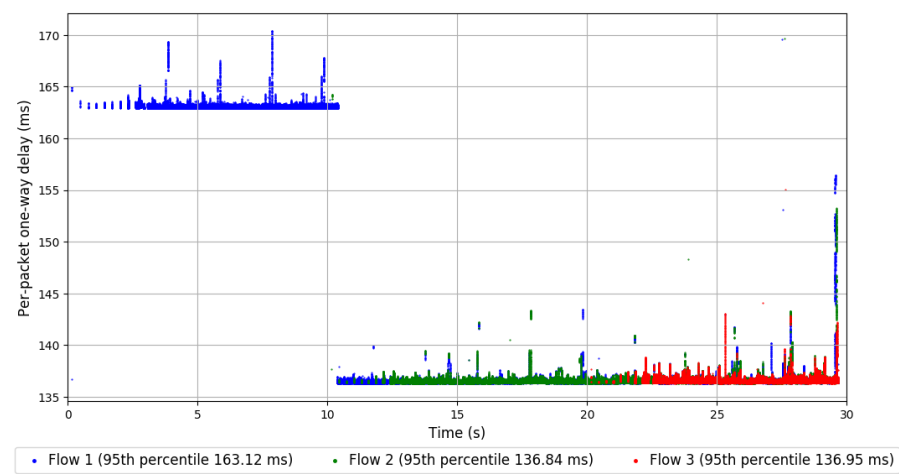
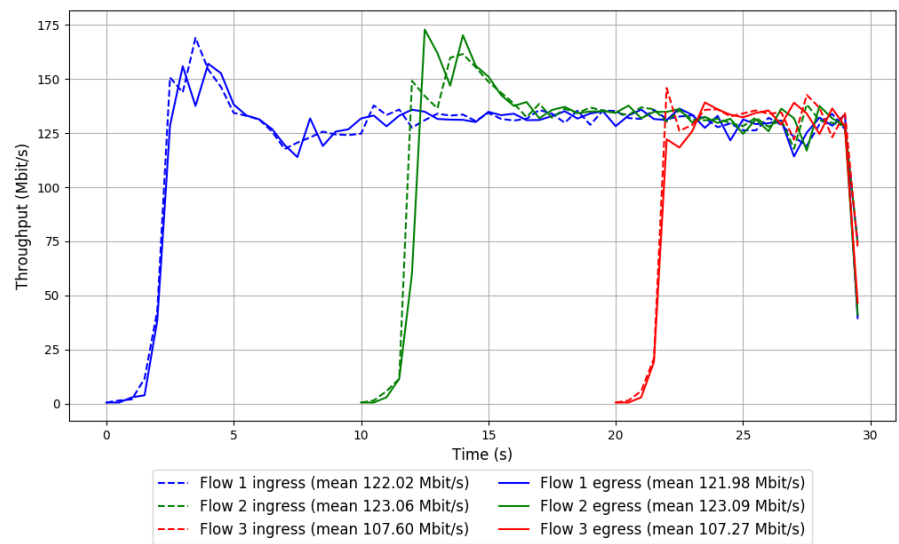
-- Flow 3:

Average throughput: 107.27 Mbit/s

95th percentile per-packet one-way delay: 136.950 ms

Loss rate: 3.11%

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

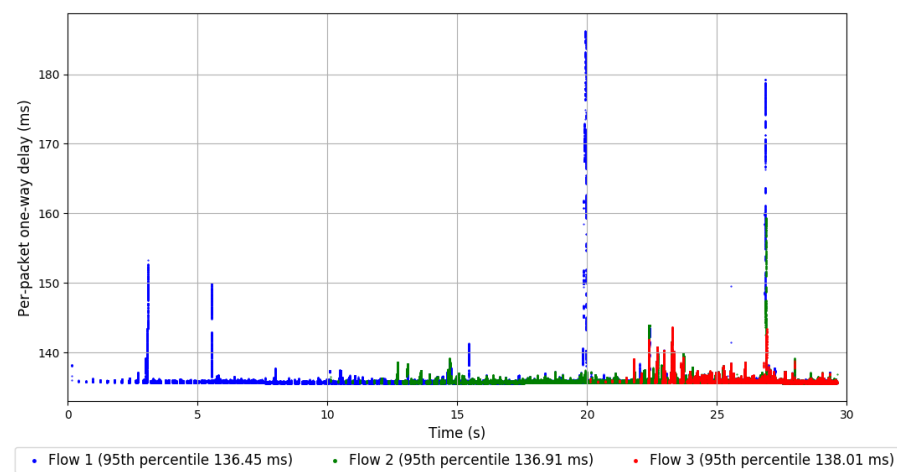
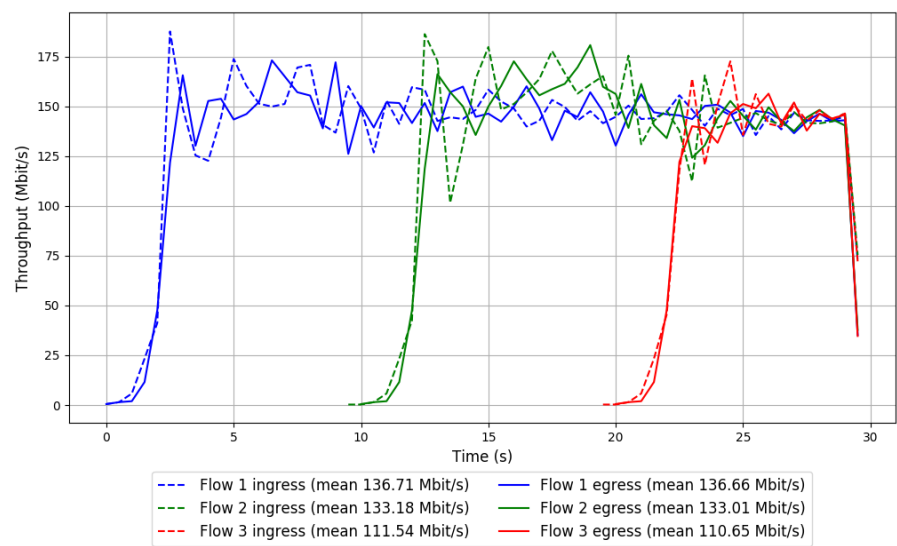


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 23:37:55
End at: 2018-01-26 23:38:25

# Below is generated by plot.py at 2018-01-27 05:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 260.18 Mbit/s
95th percentile per-packet one-way delay: 136.854 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 136.66 Mbit/s
95th percentile per-packet one-way delay: 136.447 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 133.01 Mbit/s
95th percentile per-packet one-way delay: 136.909 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 110.65 Mbit/s
95th percentile per-packet one-way delay: 138.011 ms
Loss rate: 3.57%
```


Run 1: Report of Indigo-1-128 — Data Link

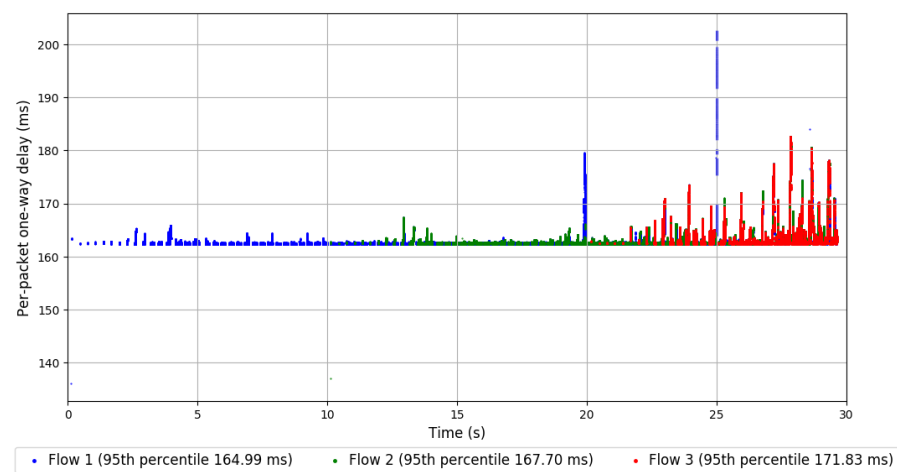
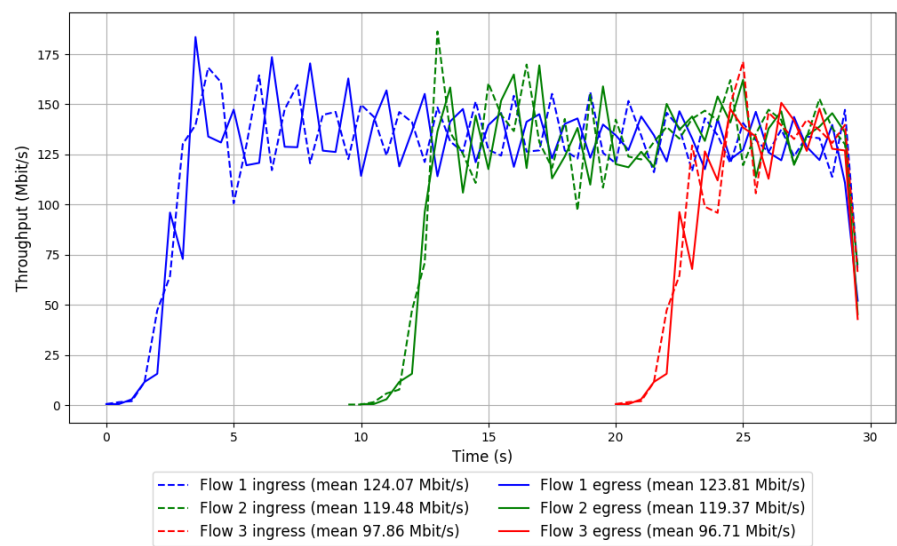


```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 23:54:19
End at: 2018-01-26 23:54:49

# Below is generated by plot.py at 2018-01-27 05:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 233.84 Mbit/s
95th percentile per-packet one-way delay: 167.166 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 123.81 Mbit/s
95th percentile per-packet one-way delay: 164.989 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 119.37 Mbit/s
95th percentile per-packet one-way delay: 167.697 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 96.71 Mbit/s
95th percentile per-packet one-way delay: 171.830 ms
Loss rate: 4.21%
```

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-27 00:09:24

End at: 2018-01-27 00:09:54

Below is generated by plot.py at 2018-01-27 05:44:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 254.51 Mbit/s

95th percentile per-packet one-way delay: 162.478 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 135.26 Mbit/s

95th percentile per-packet one-way delay: 162.507 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 128.32 Mbit/s

95th percentile per-packet one-way delay: 136.154 ms

Loss rate: 1.57%

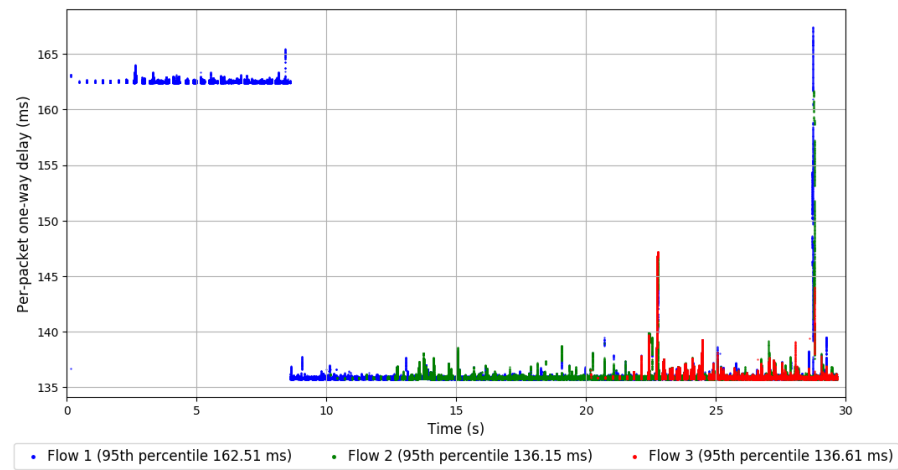
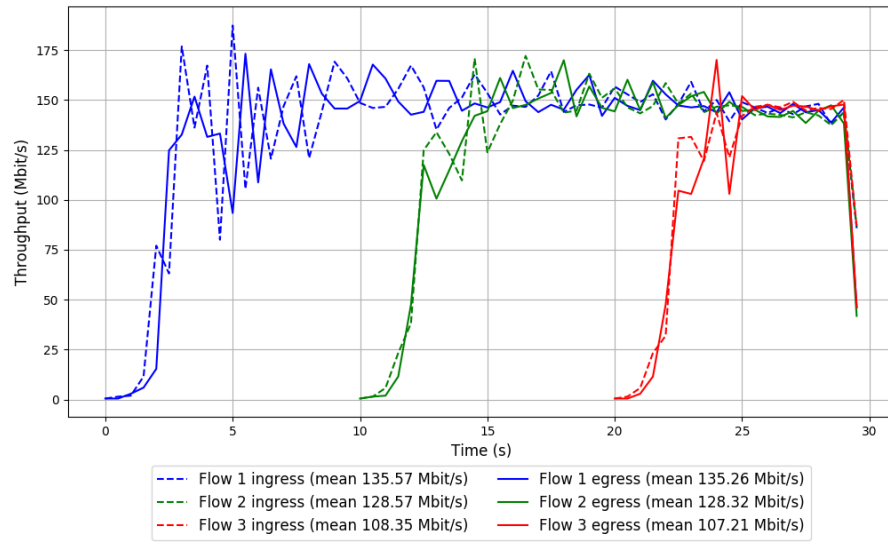
-- Flow 3:

Average throughput: 107.21 Mbit/s

95th percentile per-packet one-way delay: 136.614 ms

Loss rate: 3.81%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-27 00:25:46

End at: 2018-01-27 00:26:16

Below is generated by plot.py at 2018-01-27 05:44:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 244.83 Mbit/s

95th percentile per-packet one-way delay: 138.536 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 126.13 Mbit/s

95th percentile per-packet one-way delay: 138.863 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 125.96 Mbit/s

95th percentile per-packet one-way delay: 137.777 ms

Loss rate: 1.60%

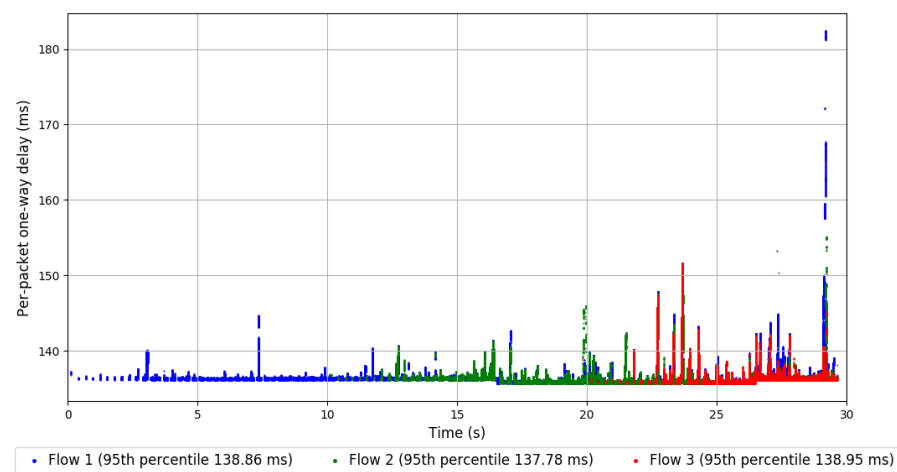
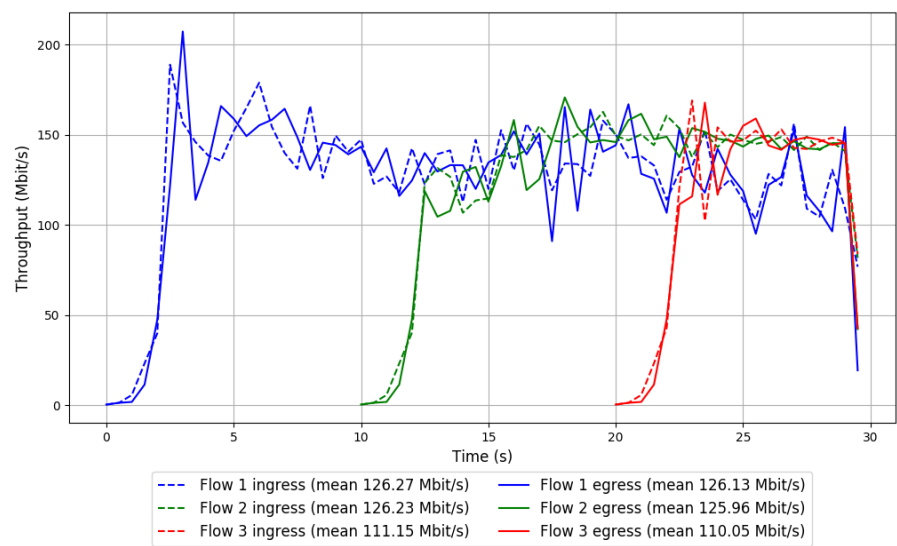
-- Flow 3:

Average throughput: 110.05 Mbit/s

95th percentile per-packet one-way delay: 138.948 ms

Loss rate: 3.74%

Run 4: Report of Indigo-1-128 — Data Link

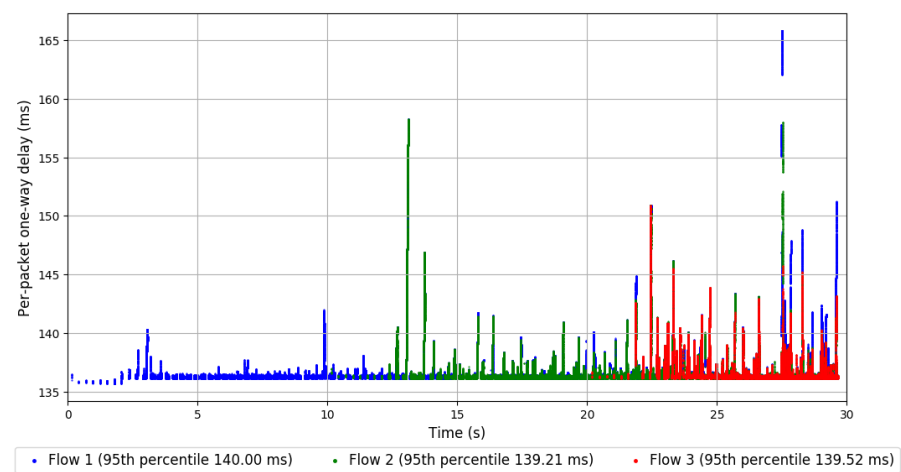
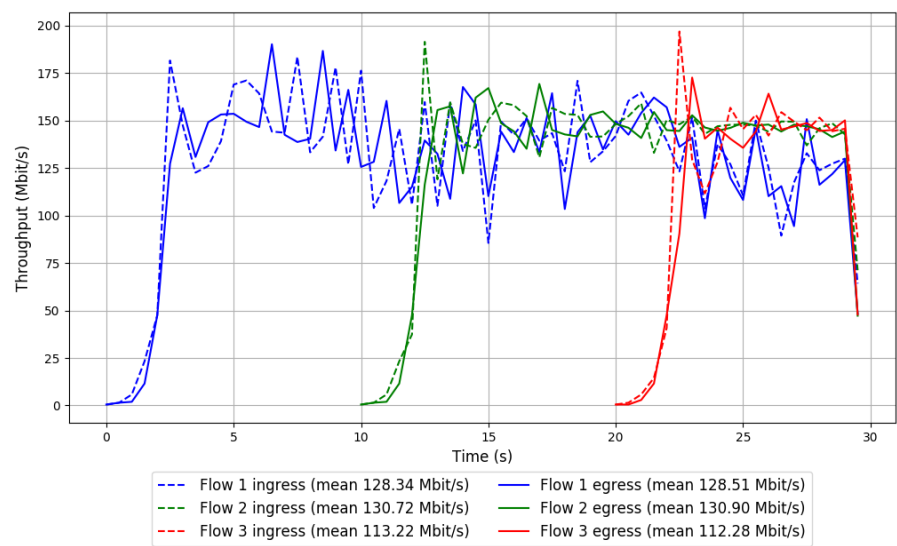


```
Run 5: Statistics of Indigo-1-128

Start at: 2018-01-27 00:42:20
End at: 2018-01-27 00:42:50

# Below is generated by plot.py at 2018-01-27 05:45:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.95 Mbit/s
95th percentile per-packet one-way delay: 139.799 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 128.51 Mbit/s
95th percentile per-packet one-way delay: 140.005 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 130.90 Mbit/s
95th percentile per-packet one-way delay: 139.210 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 112.28 Mbit/s
95th percentile per-packet one-way delay: 139.521 ms
Loss rate: 3.62%
```


Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-27 00:59:02

End at: 2018-01-27 00:59:32

Below is generated by plot.py at 2018-01-27 05:46:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 252.60 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 135.05 Mbit/s

95th percentile per-packet one-way delay: 136.415 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 124.73 Mbit/s

95th percentile per-packet one-way delay: 136.526 ms

Loss rate: 1.53%

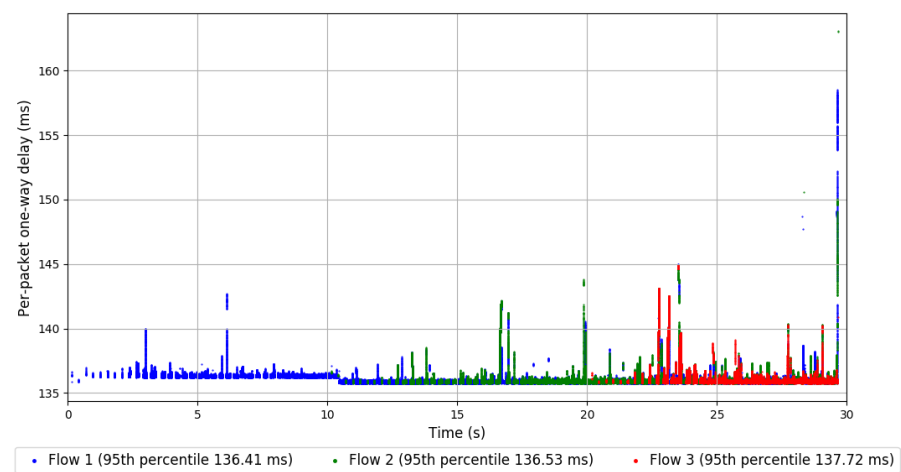
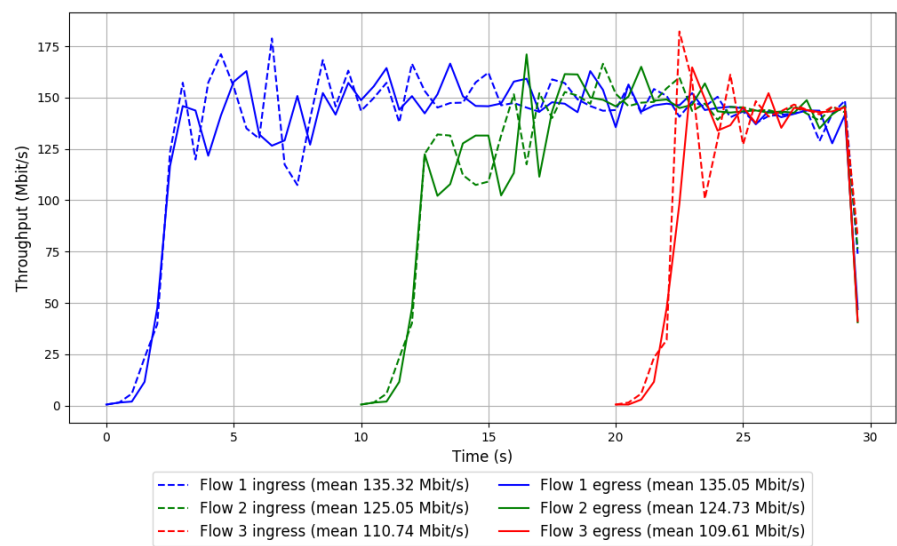
-- Flow 3:

Average throughput: 109.61 Mbit/s

95th percentile per-packet one-way delay: 137.717 ms

Loss rate: 3.74%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-27 01:15:07

End at: 2018-01-27 01:15:37

Below is generated by plot.py at 2018-01-27 05:46:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 240.96 Mbit/s

95th percentile per-packet one-way delay: 136.730 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 125.52 Mbit/s

95th percentile per-packet one-way delay: 136.704 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 123.06 Mbit/s

95th percentile per-packet one-way delay: 136.720 ms

Loss rate: 1.58%

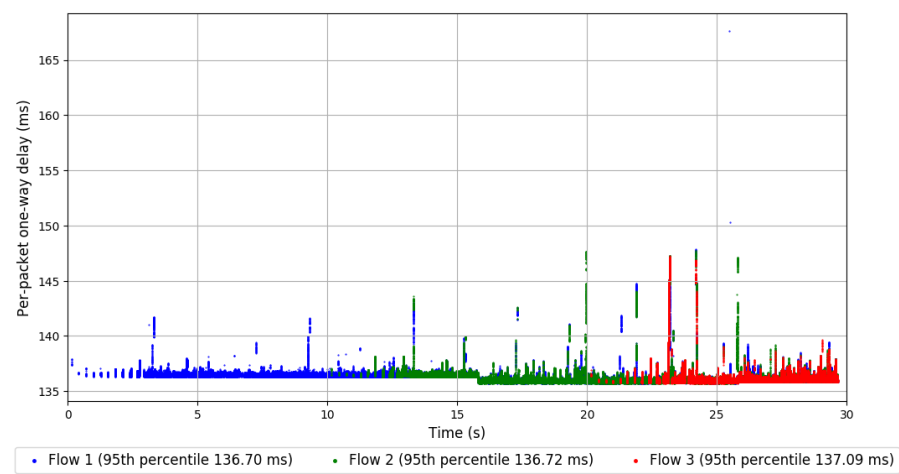
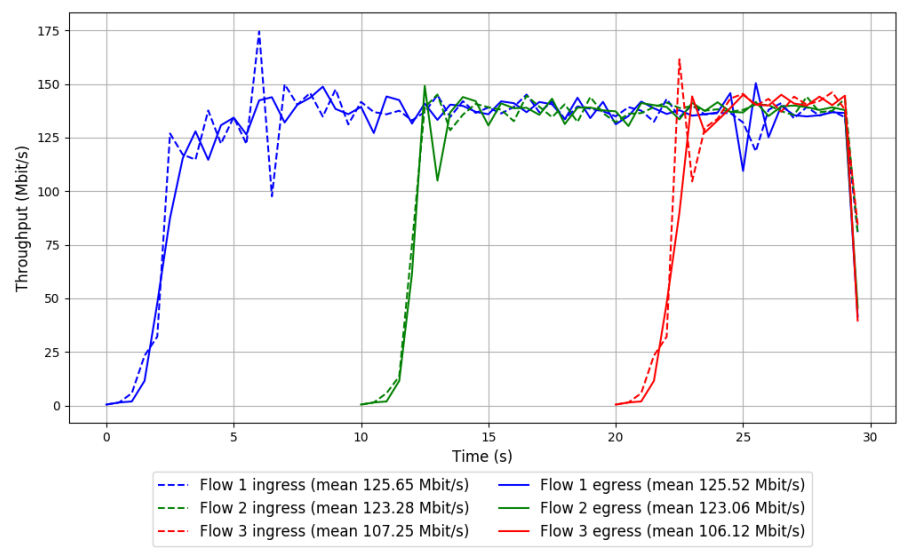
-- Flow 3:

Average throughput: 106.12 Mbit/s

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

Loss rate: 3.82%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

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

End at: 2018-01-27 01:31:32

Below is generated by plot.py at 2018-01-27 05:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.88 Mbit/s

95th percentile per-packet one-way delay: 162.730 ms

Loss rate: 1.47%

-- Flow 1:

Average throughput: 133.14 Mbit/s

95th percentile per-packet one-way delay: 162.762 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 136.83 Mbit/s

95th percentile per-packet one-way delay: 139.673 ms

Loss rate: 1.32%

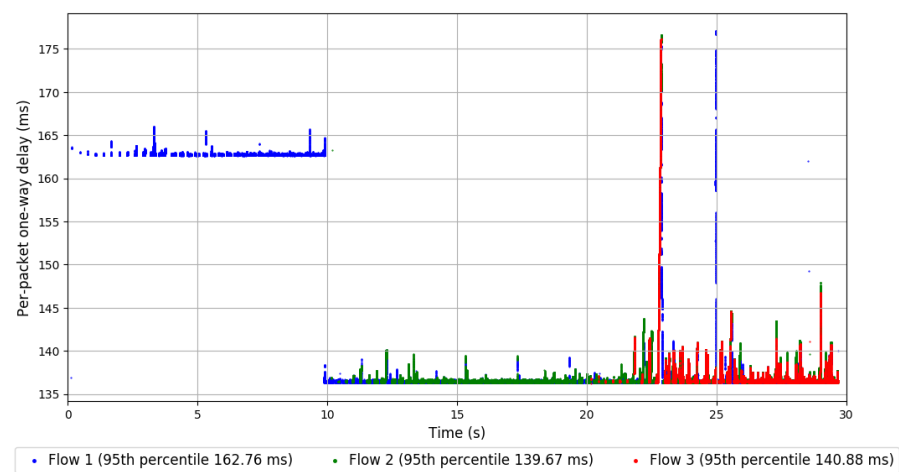
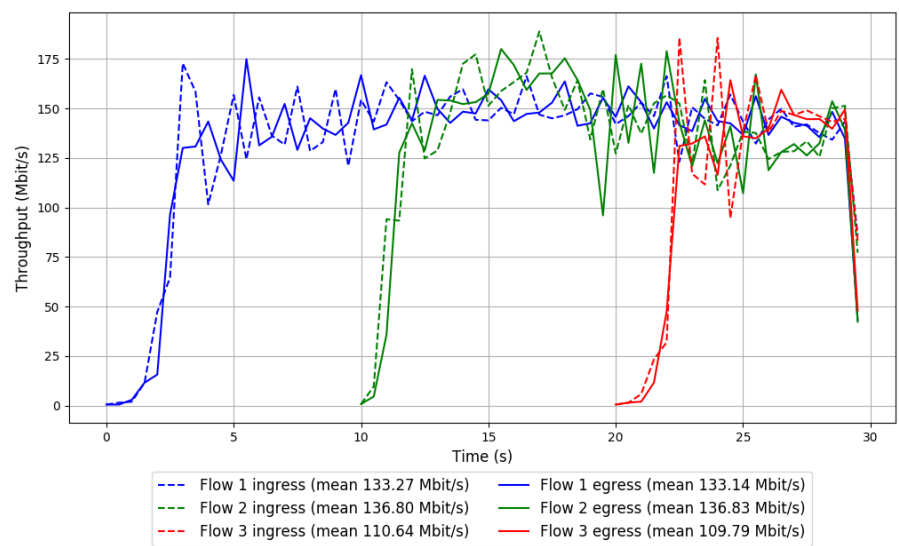
-- Flow 3:

Average throughput: 109.79 Mbit/s

95th percentile per-packet one-way delay: 140.881 ms

Loss rate: 3.54%

Run 8: Report of Indigo-1-128 — Data Link

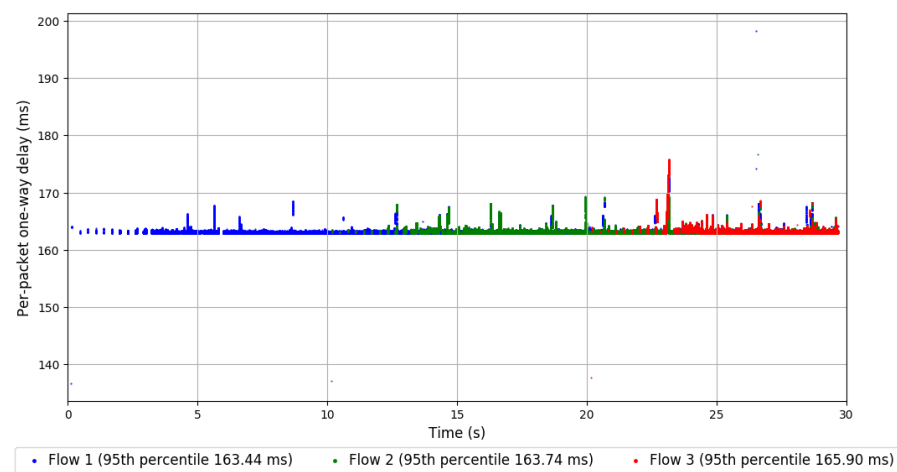
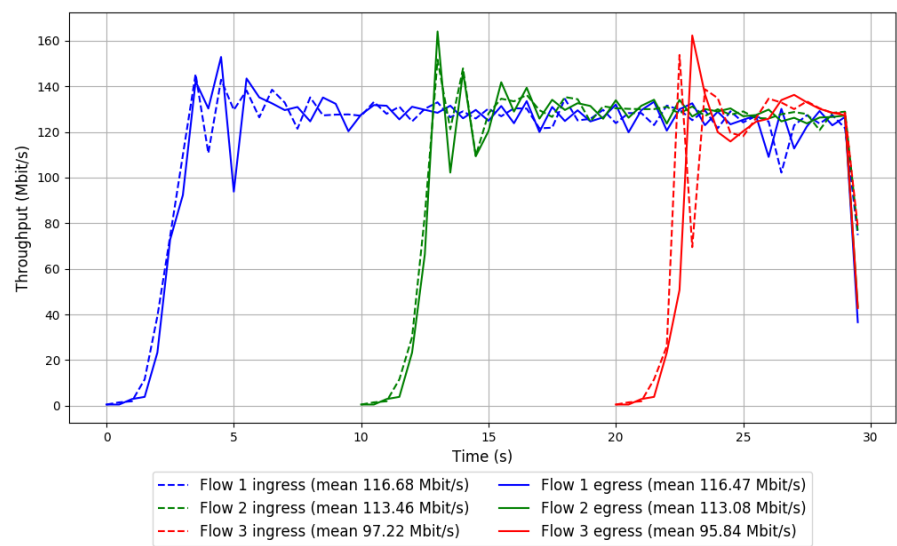


```
Run 9: Statistics of Indigo-1-128

Start at: 2018-01-27 01:47:11
End at: 2018-01-27 01:47:41

# Below is generated by plot.py at 2018-01-27 05:46:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 221.98 Mbit/s
95th percentile per-packet one-way delay: 163.667 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 116.47 Mbit/s
95th percentile per-packet one-way delay: 163.436 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 113.08 Mbit/s
95th percentile per-packet one-way delay: 163.742 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 165.901 ms
Loss rate: 4.18%
```


Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-27 02:02:16

End at: 2018-01-27 02:02:46

Below is generated by plot.py at 2018-01-27 05:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.61 Mbit/s

95th percentile per-packet one-way delay: 163.138 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 123.16 Mbit/s

95th percentile per-packet one-way delay: 163.153 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 122.87 Mbit/s

95th percentile per-packet one-way delay: 163.160 ms

Loss rate: 1.52%

-- Flow 3:

Average throughput: 100.67 Mbit/s

95th percentile per-packet one-way delay: 137.242 ms

Loss rate: 3.86%

Run 10: Report of Indigo-1-128 — Data Link

