

## Pantheon Report

Generated at 2018-02-01 08:39:05 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

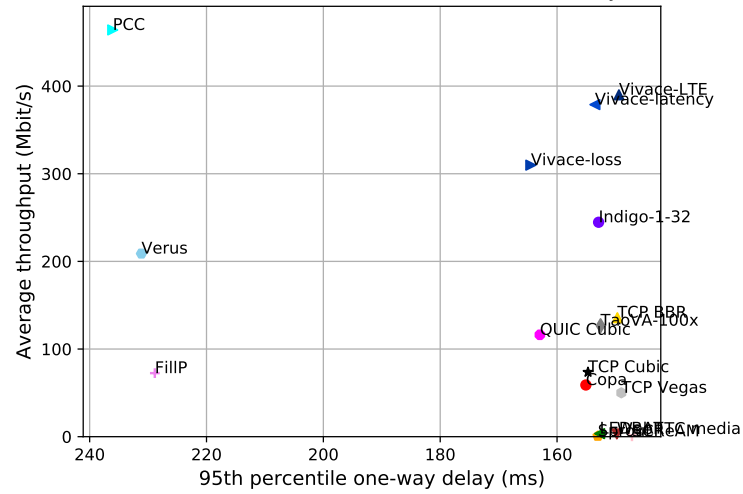
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

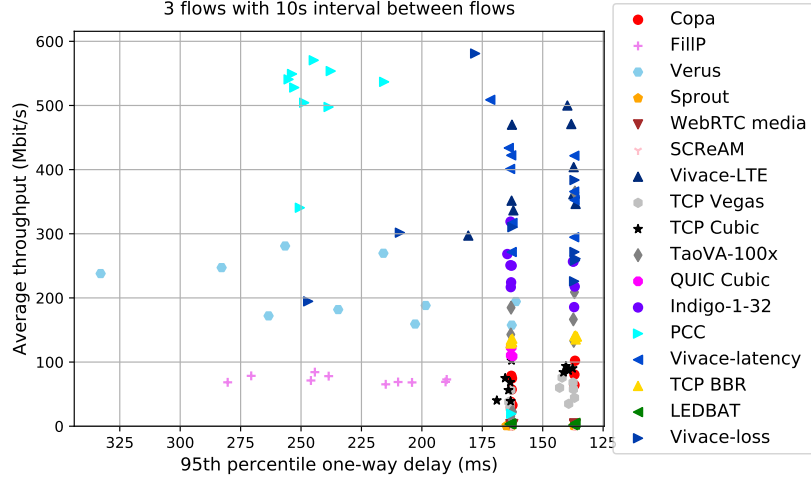
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from 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	70.92	67.68	61.90	149.66	149.69	144.16	0.95	1.52	3.58
TCP Cubic	10	42.40	34.52	25.96	154.63	154.73	151.49	1.33	2.36	4.52
LEDBAT	10	2.37	1.26	0.97	152.74	152.63	149.91	2.19	2.48	6.17
PCC	10	354.50	153.53	25.22	233.15	237.43	210.79	2.63	3.28	4.11
QUIC Cubic	4	59.22	60.68	51.92	142.96	156.38	155.96	1.01	0.61	3.75
SCReAM	10	0.22	0.21	0.22	139.15	141.56	139.09	0.87	1.38	2.56
WebRTC media	8	1.64	1.12	0.37	146.32	146.48	146.50	1.85	2.23	5.69
Sprout	10	0.34	0.33	0.42	152.74	152.86	152.57	0.74	1.22	2.29
TaoVA-100x	10	52.34	76.58	75.12	149.73	149.84	150.63	0.73	2.10	7.93
TCP Vegas	10	23.53	25.76	29.22	148.55	148.73	148.84	0.83	1.58	3.39
Verus	10	131.46	95.73	47.21	236.59	213.30	188.85	2.35	3.25	4.28
Copa	10	26.72	37.38	23.53	155.00	152.29	152.23	0.96	1.61	2.28
FillP	10	24.59	38.11	70.35	233.93	213.05	226.61	4.38	2.17	5.16
Indigo-1-32	10	127.39	125.24	107.19	152.71	152.98	150.79	0.96	1.46	3.47
Vivace-latency	10	221.18	184.72	110.38	161.23	139.35	141.96	1.17	1.94	4.63
Vivace-loss	9	167.33	150.22	142.24	479.01	148.47	168.26	1.45	1.82	4.45
Vivace-LTE	10	231.93	181.07	120.22	145.50	152.63	139.48	0.95	1.60	3.89

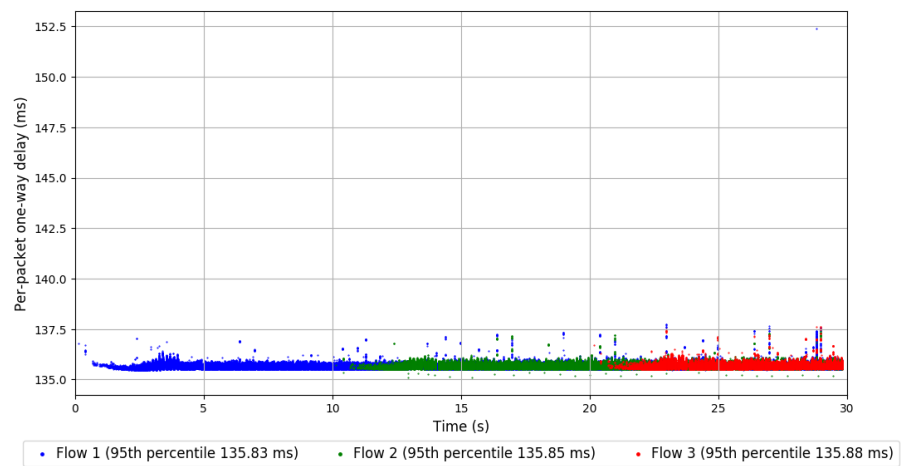
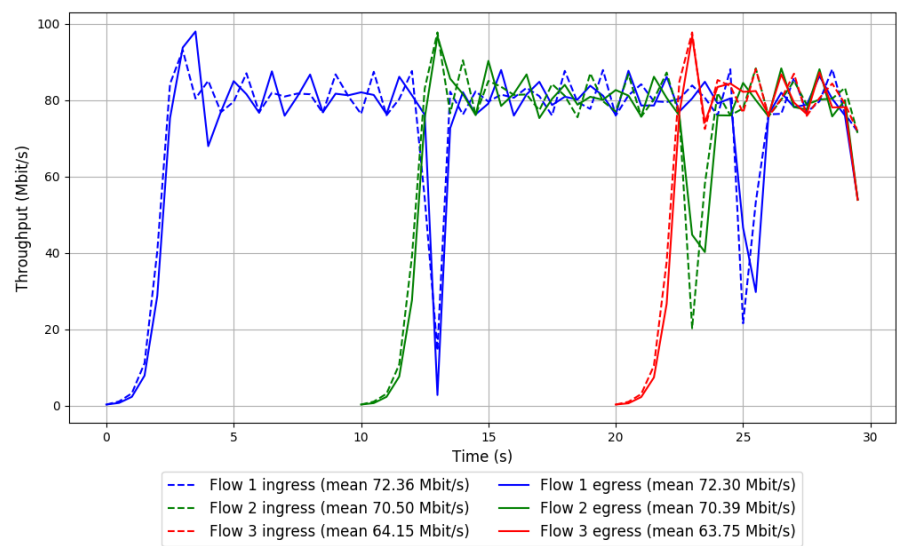
```
Run 1: Statistics of TCP BBR

Start at: 2018-02-01 01:19:22
End at: 2018-02-01 01:19:52

# Below is generated by plot.py at 2018-02-01 07:43:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 139.72 Mbit/s
95th percentile per-packet one-way delay: 135.844 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 72.30 Mbit/s
95th percentile per-packet one-way delay: 135.831 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 70.39 Mbit/s
95th percentile per-packet one-way delay: 135.846 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 63.75 Mbit/s
95th percentile per-packet one-way delay: 135.882 ms
Loss rate: 3.36%
```



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-01 01:38:53

End at: 2018-02-01 01:39:23

# Below is generated by plot.py at 2018-02-01 07:43:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 135.28 Mbit/s

95th percentile per-packet one-way delay: 136.349 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 72.28 Mbit/s

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

Loss rate: 1.08%

-- Flow 2:

Average throughput: 63.96 Mbit/s

95th percentile per-packet one-way delay: 136.343 ms

Loss rate: 1.89%

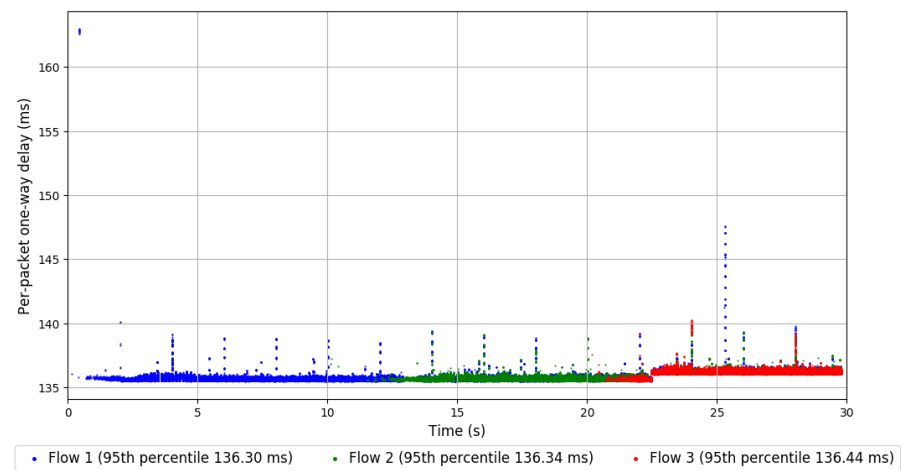
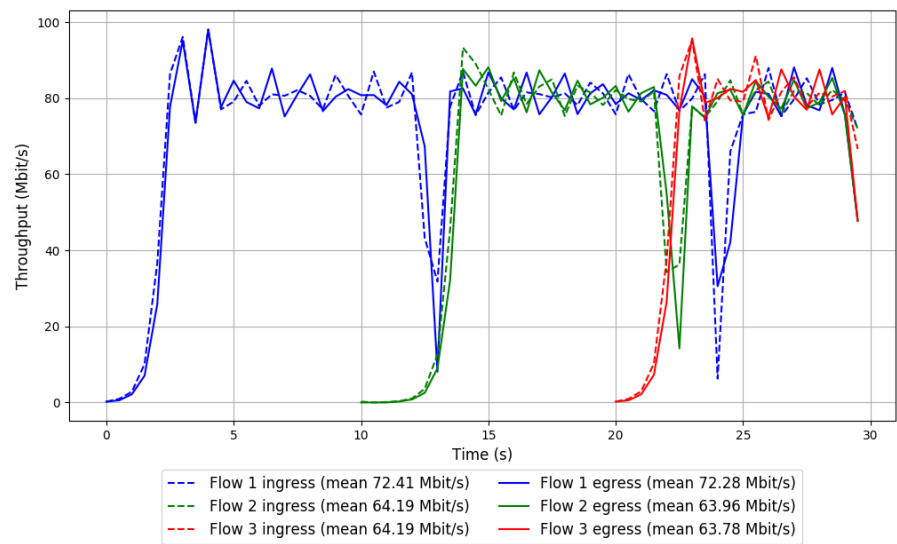
-- Flow 3:

Average throughput: 63.78 Mbit/s

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

Loss rate: 3.40%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-01 01:57:31

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

# Below is generated by plot.py at 2018-02-01 07:43:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 140.04 Mbit/s

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

Loss rate: 1.63%

-- Flow 1:

Average throughput: 73.10 Mbit/s

95th percentile per-packet one-way delay: 136.368 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 70.09 Mbit/s

95th percentile per-packet one-way delay: 136.400 ms

Loss rate: 1.53%

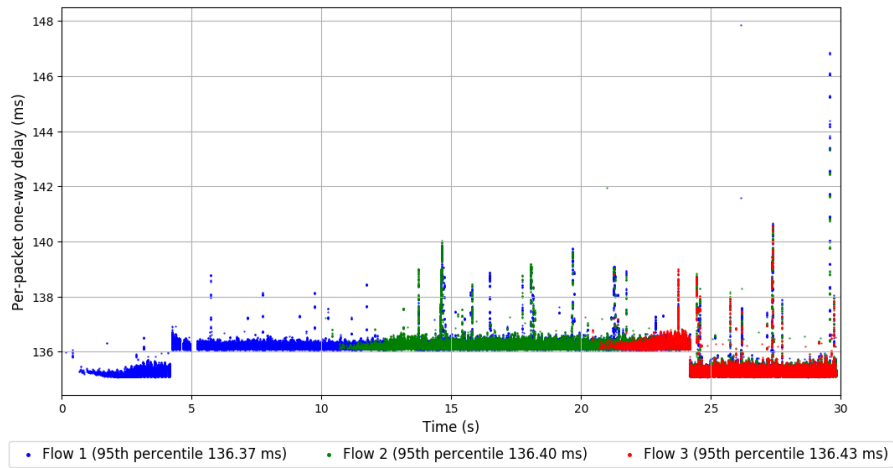
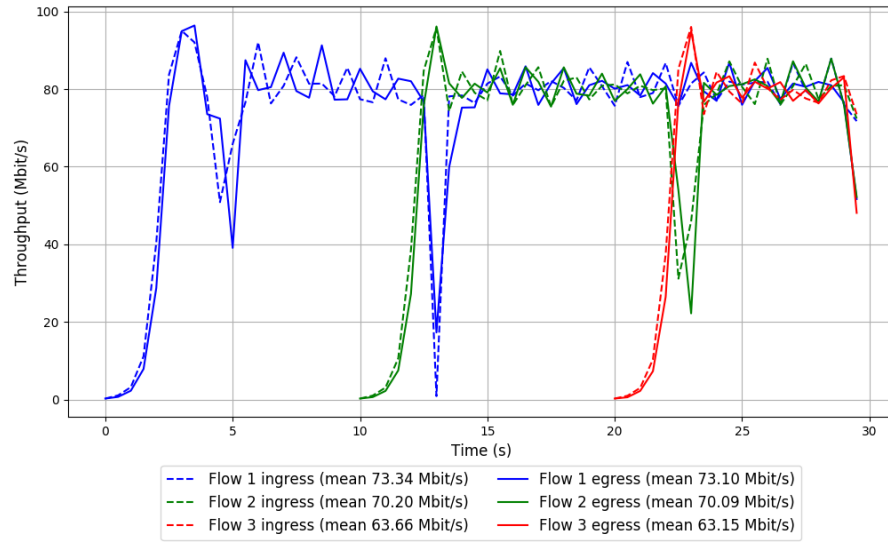
-- Flow 3:

Average throughput: 63.15 Mbit/s

95th percentile per-packet one-way delay: 136.429 ms

Loss rate: 3.77%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-01 02:15:55

End at: 2018-02-01 02:16:25

# Below is generated by plot.py at 2018-02-01 07:43:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 140.60 Mbit/s

95th percentile per-packet one-way delay: 136.836 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 73.22 Mbit/s

95th percentile per-packet one-way delay: 136.801 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 136.837 ms

Loss rate: 1.56%

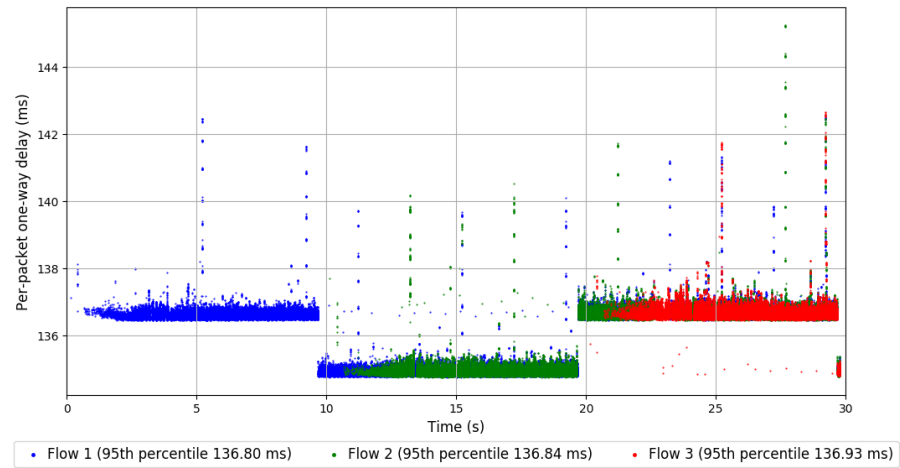
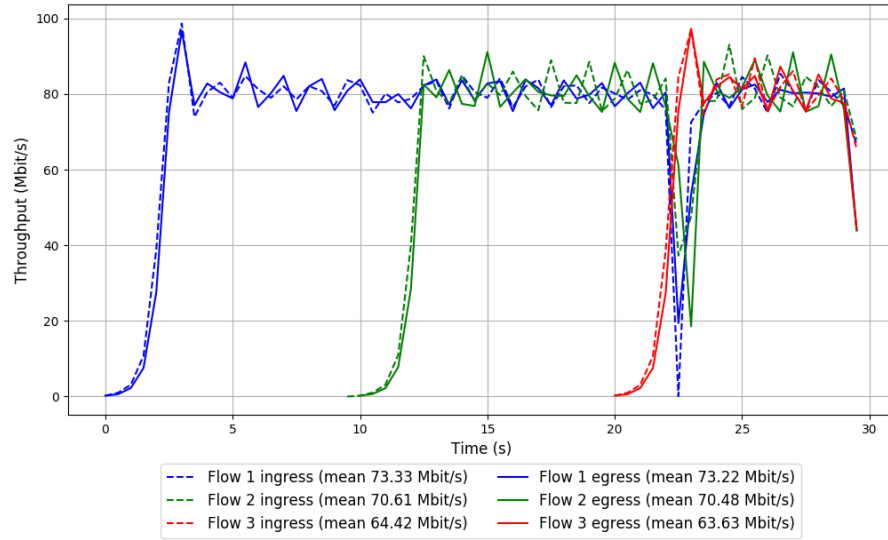
-- Flow 3:

Average throughput: 63.63 Mbit/s

95th percentile per-packet one-way delay: 136.928 ms

Loss rate: 3.61%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-01 02:34:03

End at: 2018-02-01 02:34:33

# Below is generated by plot.py at 2018-02-01 07:43:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 141.31 Mbit/s

95th percentile per-packet one-way delay: 136.419 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 73.94 Mbit/s

95th percentile per-packet one-way delay: 136.409 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 136.464 ms

Loss rate: 1.53%

-- Flow 3:

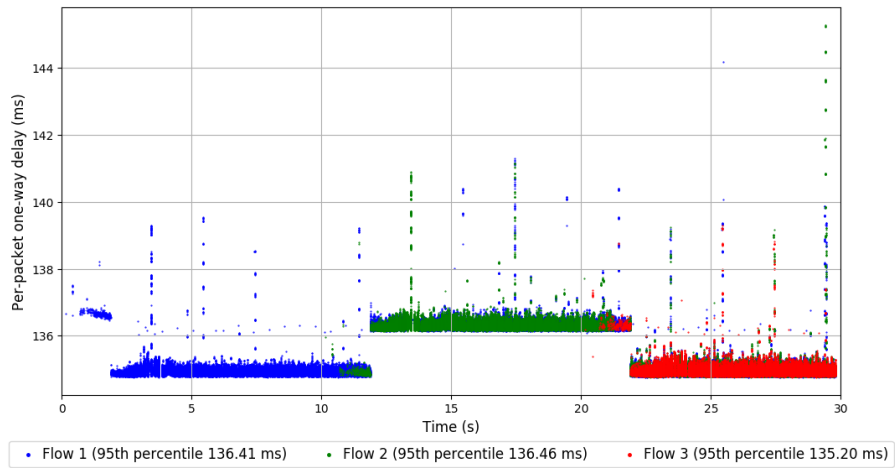
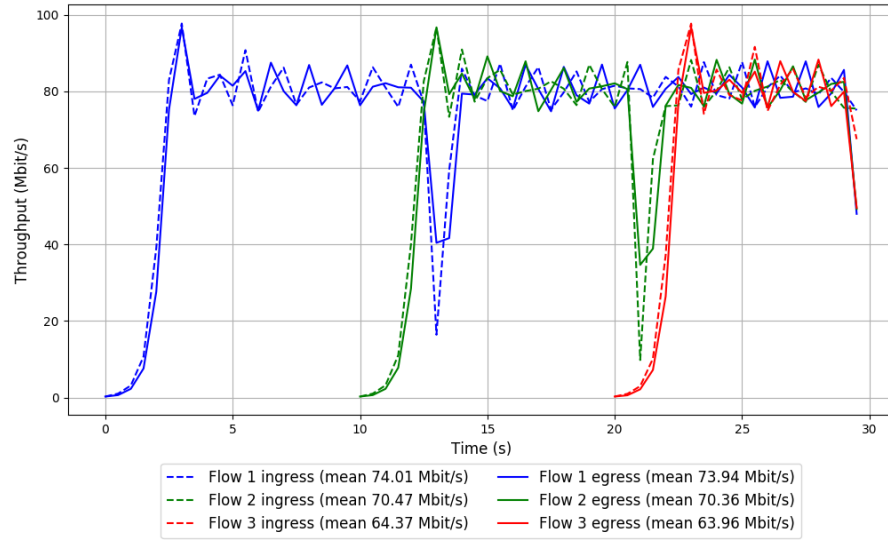
Average throughput: 63.96 Mbit/s

95th percentile per-packet one-way delay: 135.197 ms

Loss rate: 3.38%



# Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

End at: 2018-02-01 02:52:32

# Below is generated by plot.py at 2018-02-01 07:43:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 131.29 Mbit/s

95th percentile per-packet one-way delay: 162.670 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 71.25 Mbit/s

95th percentile per-packet one-way delay: 162.651 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 61.85 Mbit/s

95th percentile per-packet one-way delay: 162.732 ms

Loss rate: 1.74%

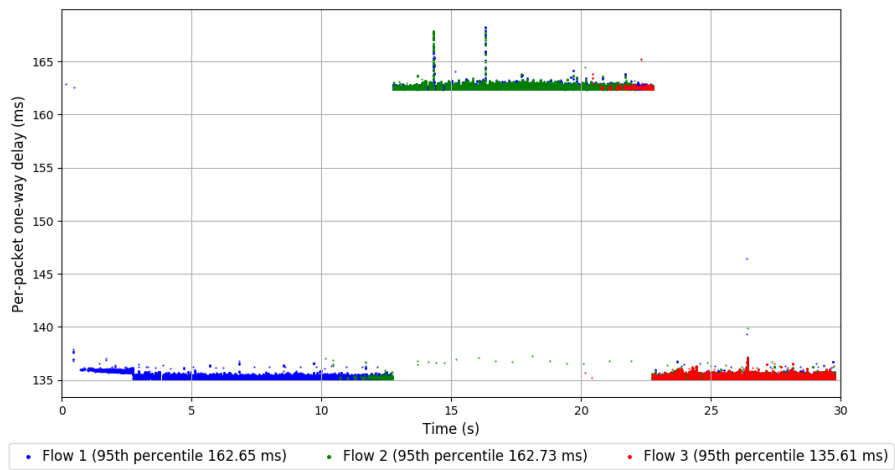
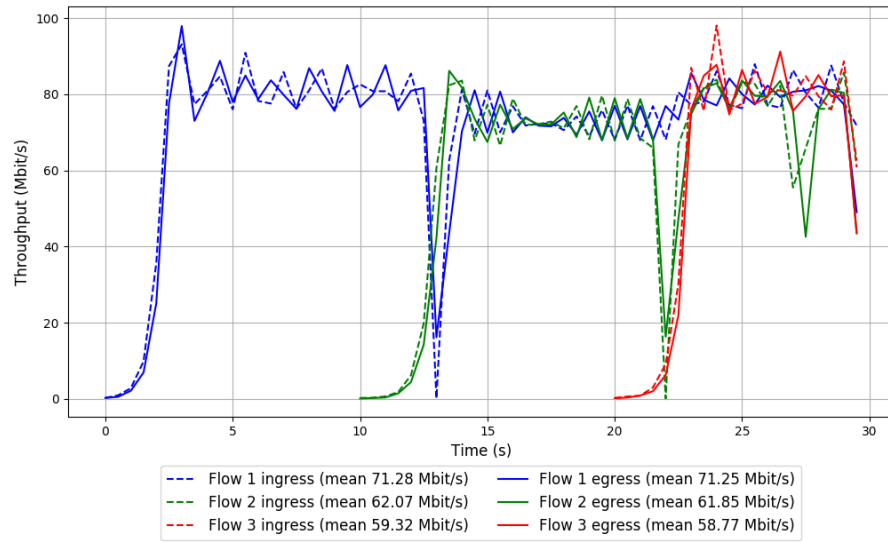
-- Flow 3:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 135.606 ms

Loss rate: 3.65%

## Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-01 03:09:59

End at: 2018-02-01 03:10:29

# Below is generated by plot.py at 2018-02-01 07:43:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 136.52 Mbit/s

95th percentile per-packet one-way delay: 162.590 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 70.21 Mbit/s

95th percentile per-packet one-way delay: 162.621 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.90 Mbit/s

95th percentile per-packet one-way delay: 162.580 ms

Loss rate: 1.53%

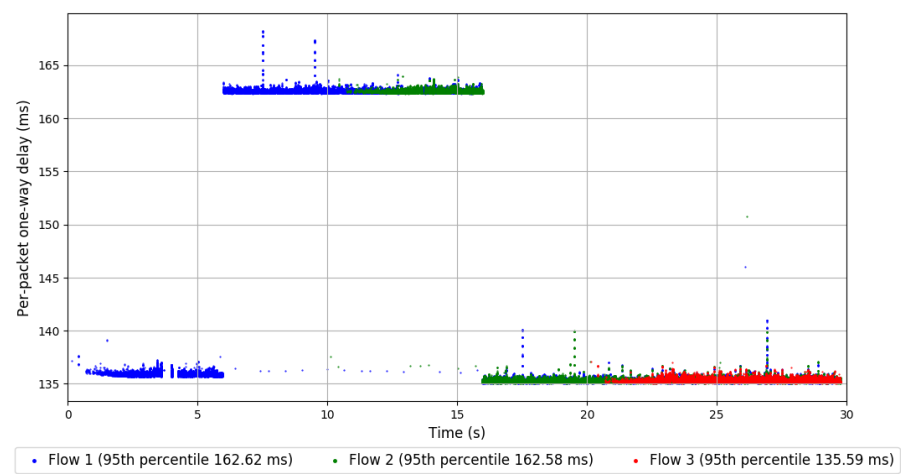
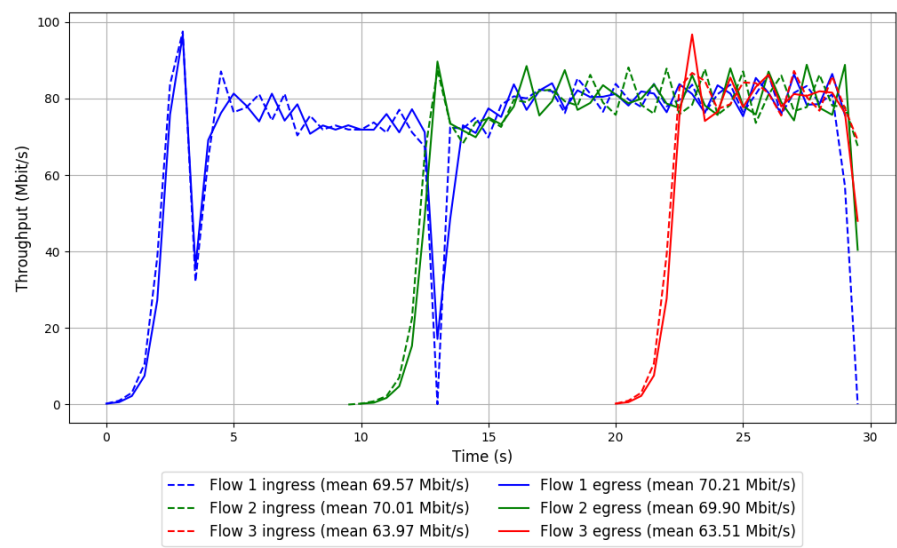
-- Flow 3:

Average throughput: 63.51 Mbit/s

95th percentile per-packet one-way delay: 135.590 ms

Loss rate: 3.56%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-01 03:28:08

End at: 2018-02-01 03:28:38

# Below is generated by plot.py at 2018-02-01 07:43:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 129.38 Mbit/s

95th percentile per-packet one-way delay: 163.312 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 163.277 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 65.79 Mbit/s

95th percentile per-packet one-way delay: 163.353 ms

Loss rate: 0.68%

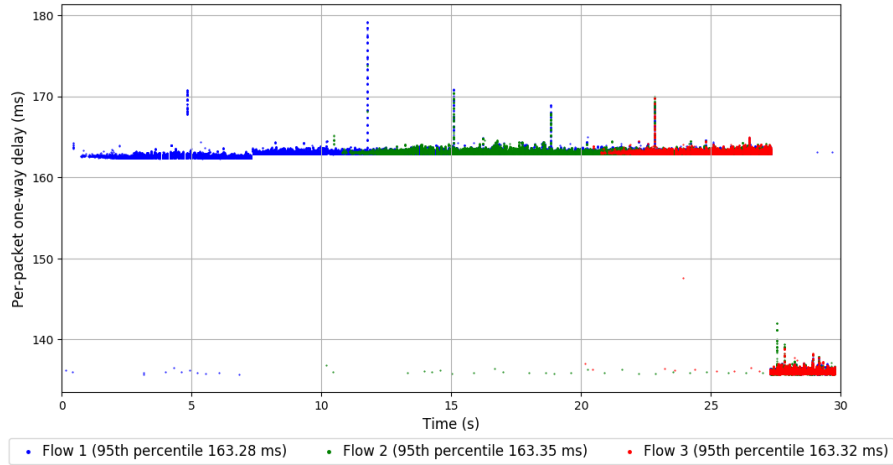
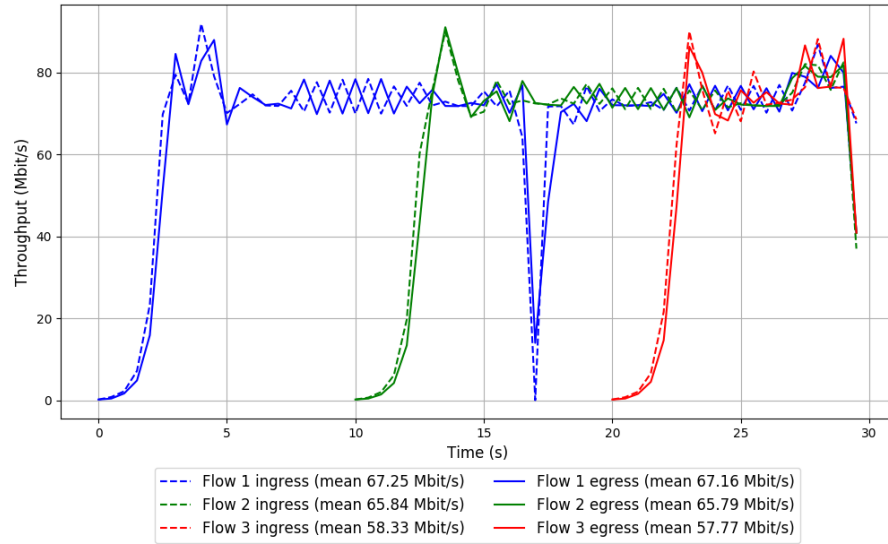
-- Flow 3:

Average throughput: 57.77 Mbit/s

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

Loss rate: 3.71%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-01 03:46:32

End at: 2018-02-01 03:47:02

# Below is generated by plot.py at 2018-02-01 07:45:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 129.21 Mbit/s

95th percentile per-packet one-way delay: 163.150 ms

Loss rate: 1.71%

-- Flow 1:

Average throughput: 65.98 Mbit/s

95th percentile per-packet one-way delay: 163.163 ms

Loss rate: 1.21%

-- Flow 2:

Average throughput: 65.29 Mbit/s

95th percentile per-packet one-way delay: 163.156 ms

Loss rate: 1.63%

-- Flow 3:

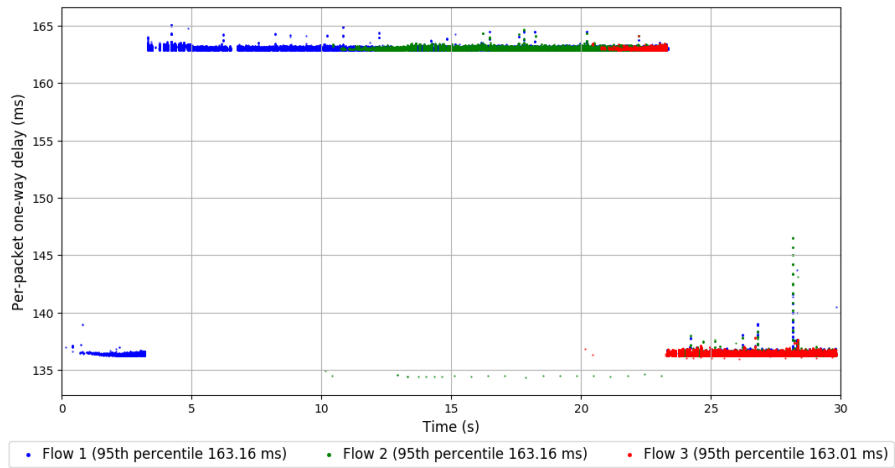
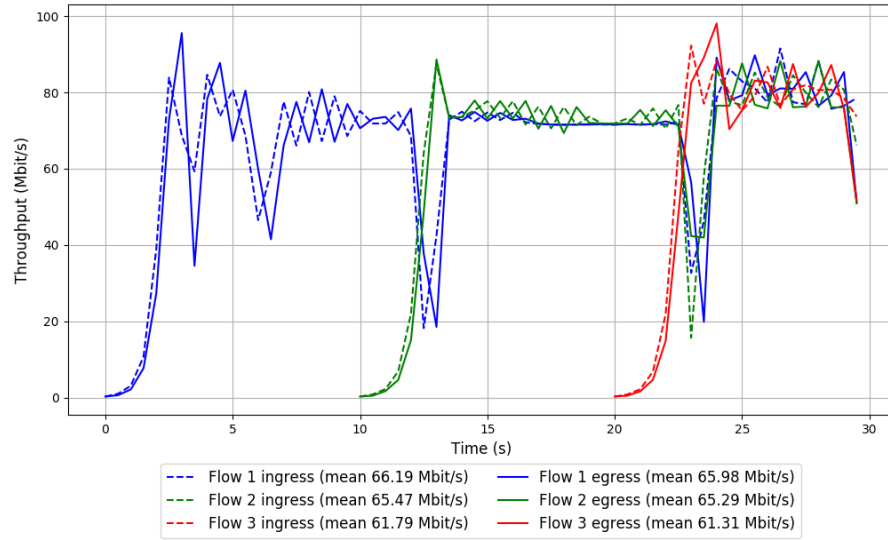
Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 163.013 ms

Loss rate: 3.48%



# Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-01 04:05:19

End at: 2018-02-01 04:05:49

# Below is generated by plot.py at 2018-02-01 07:46:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 134.64 Mbit/s

95th percentile per-packet one-way delay: 163.171 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 69.79 Mbit/s

95th percentile per-packet one-way delay: 163.151 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 163.172 ms

Loss rate: 1.56%

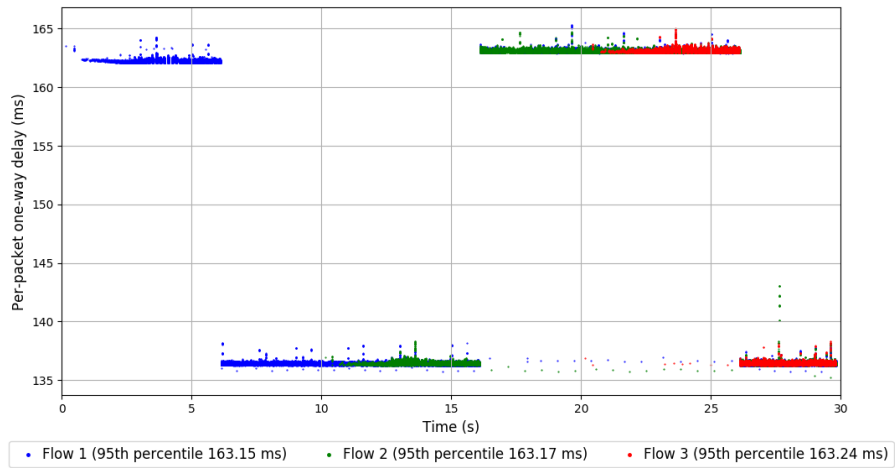
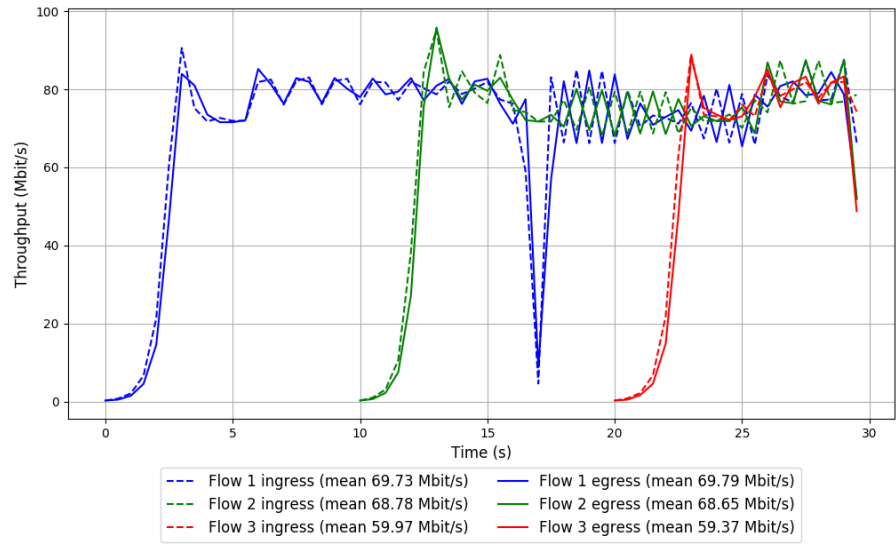
-- Flow 3:

Average throughput: 59.37 Mbit/s

95th percentile per-packet one-way delay: 163.239 ms

Loss rate: 3.88%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-01 01:25:16

End at: 2018-02-01 01:25:46

# Below is generated by plot.py at 2018-02-01 07:46:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.69 Mbit/s

95th percentile per-packet one-way delay: 140.404 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 139.794 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 41.05 Mbit/s

95th percentile per-packet one-way delay: 139.646 ms

Loss rate: 1.65%

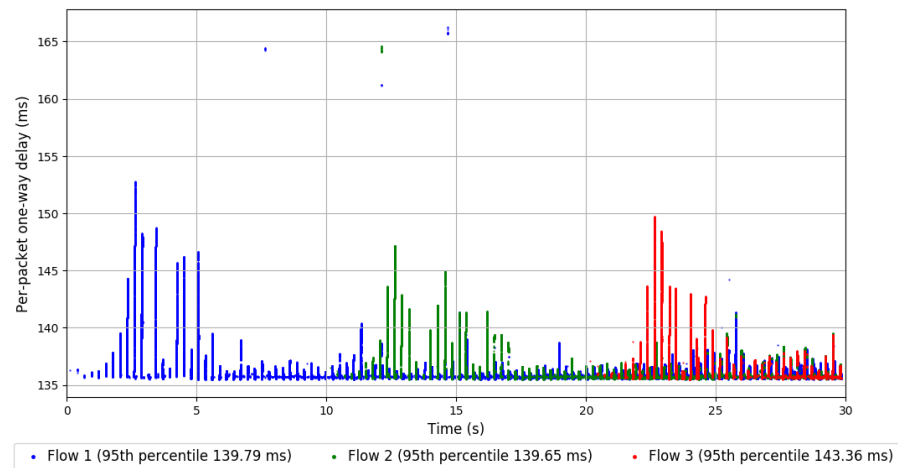
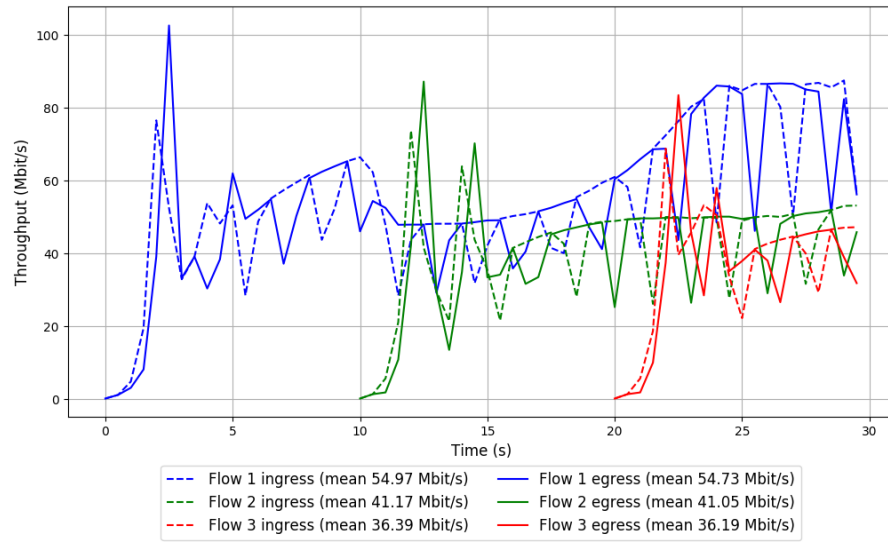
-- Flow 3:

Average throughput: 36.19 Mbit/s

95th percentile per-packet one-way delay: 143.360 ms

Loss rate: 3.29%

## Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-01 01:44:30

End at: 2018-02-01 01:45:00

# Below is generated by plot.py at 2018-02-01 07:46:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.01 Mbit/s

95th percentile per-packet one-way delay: 141.397 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 141.830 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 59.44 Mbit/s

95th percentile per-packet one-way delay: 141.283 ms

Loss rate: 1.12%

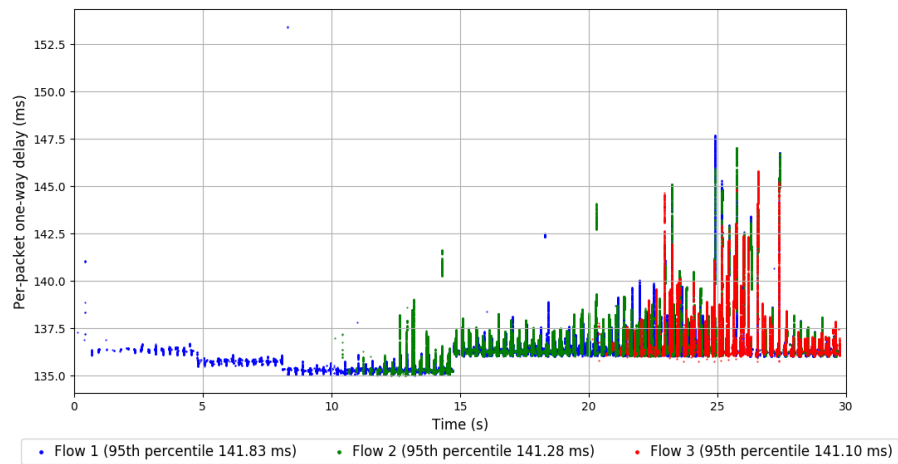
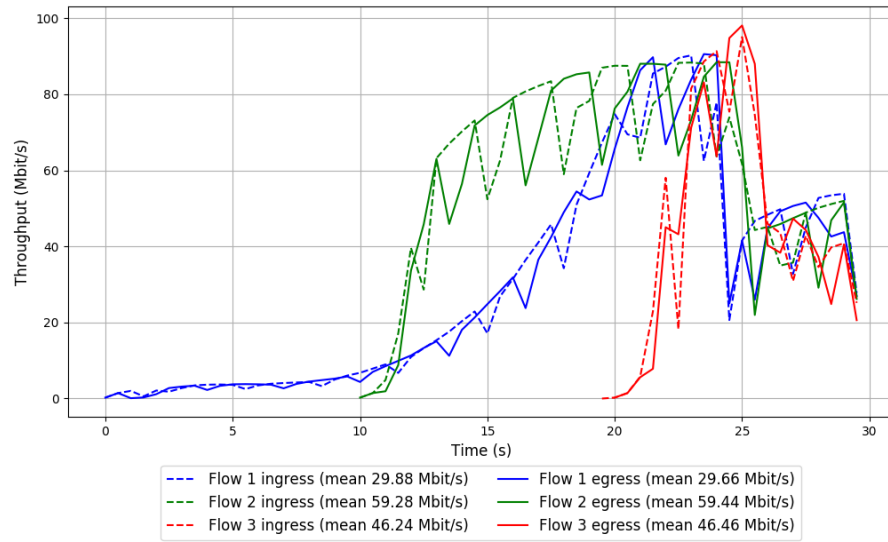
-- Flow 3:

Average throughput: 46.46 Mbit/s

95th percentile per-packet one-way delay: 141.101 ms

Loss rate: 2.28%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

End at: 2018-02-01 02:03:25

# Below is generated by plot.py at 2018-02-01 07:46:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.77 Mbit/s

95th percentile per-packet one-way delay: 139.281 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 45.18 Mbit/s

95th percentile per-packet one-way delay: 139.486 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 138.979 ms

Loss rate: 1.79%

-- Flow 3:

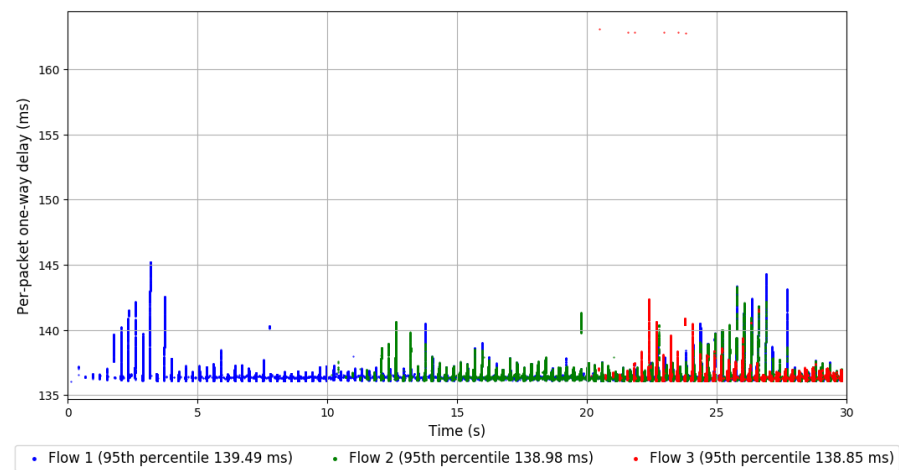
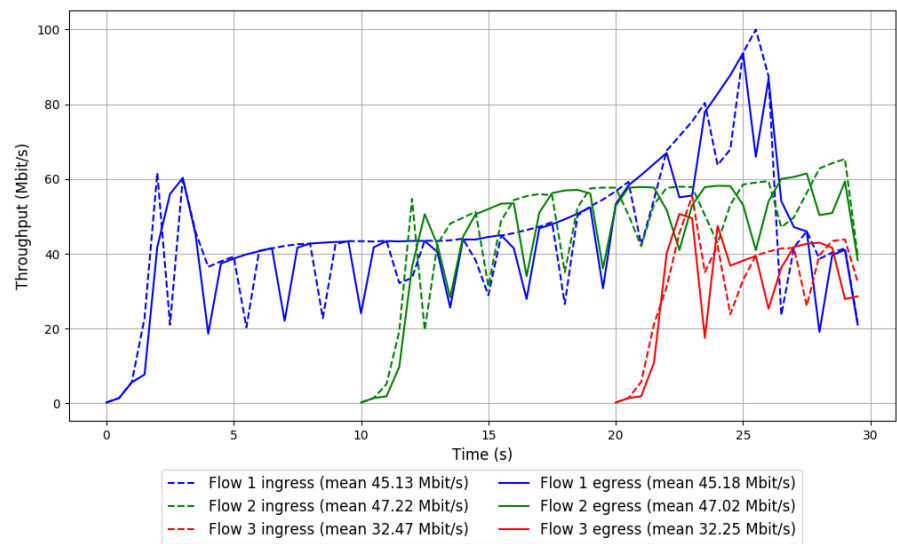
Average throughput: 32.25 Mbit/s

95th percentile per-packet one-way delay: 138.853 ms

Loss rate: 3.43%



Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-01 02:21:11

End at: 2018-02-01 02:21:41

# Below is generated by plot.py at 2018-02-01 07:46:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.13 Mbit/s

95th percentile per-packet one-way delay: 137.641 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 51.37 Mbit/s

95th percentile per-packet one-way delay: 137.733 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 41.87 Mbit/s

95th percentile per-packet one-way delay: 137.536 ms

Loss rate: 1.83%

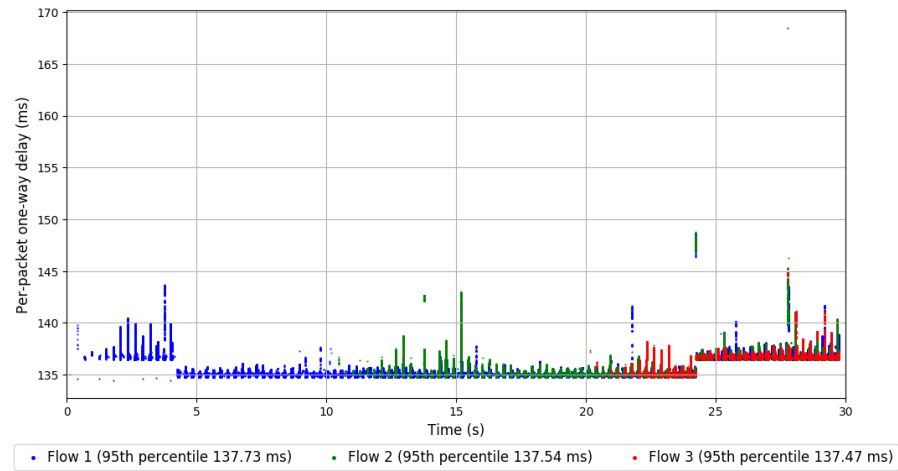
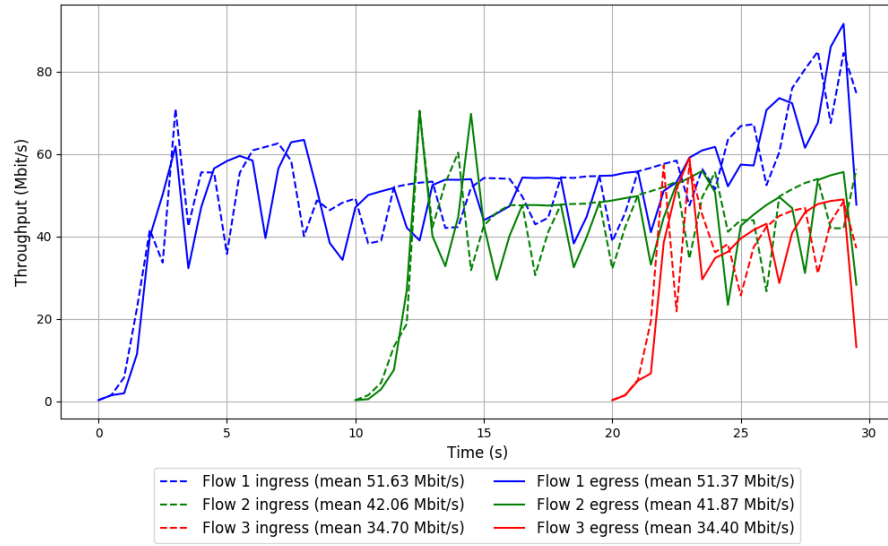
-- Flow 3:

Average throughput: 34.40 Mbit/s

95th percentile per-packet one-way delay: 137.470 ms

Loss rate: 3.62%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-01 02:39:24

End at: 2018-02-01 02:39:54

# Below is generated by plot.py at 2018-02-01 07:46:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 163.269 ms

Loss rate: 2.16%

-- Flow 1:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 163.294 ms

Loss rate: 1.66%

-- Flow 2:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 163.177 ms

Loss rate: 3.19%

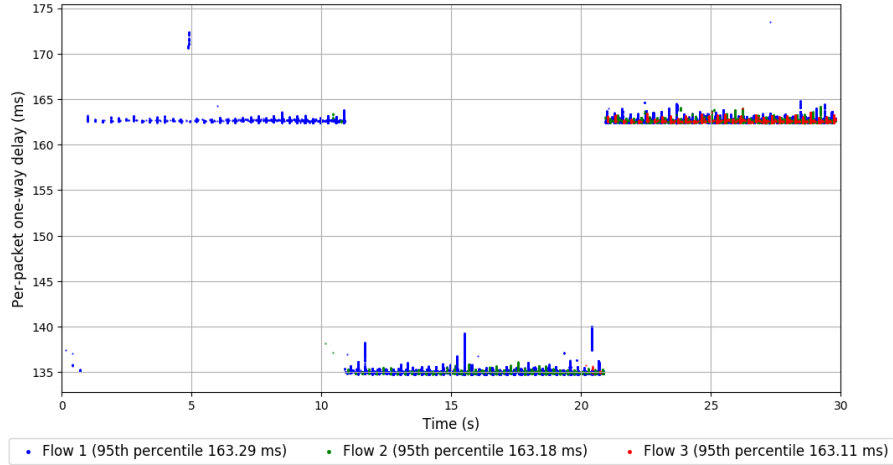
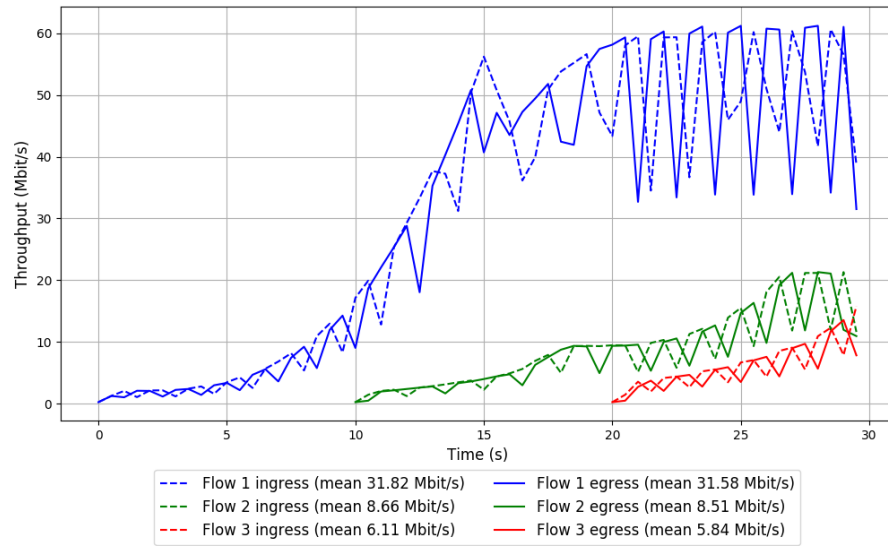
-- Flow 3:

Average throughput: 5.84 Mbit/s

95th percentile per-packet one-way delay: 163.106 ms

Loss rate: 7.00%

# Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-01 02:57:21

End at: 2018-02-01 02:57:51

# Below is generated by plot.py at 2018-02-01 07:46:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 102.53 Mbit/s

95th percentile per-packet one-way delay: 162.914 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 58.56 Mbit/s

95th percentile per-packet one-way delay: 162.856 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 51.95 Mbit/s

95th percentile per-packet one-way delay: 162.907 ms

Loss rate: 1.82%

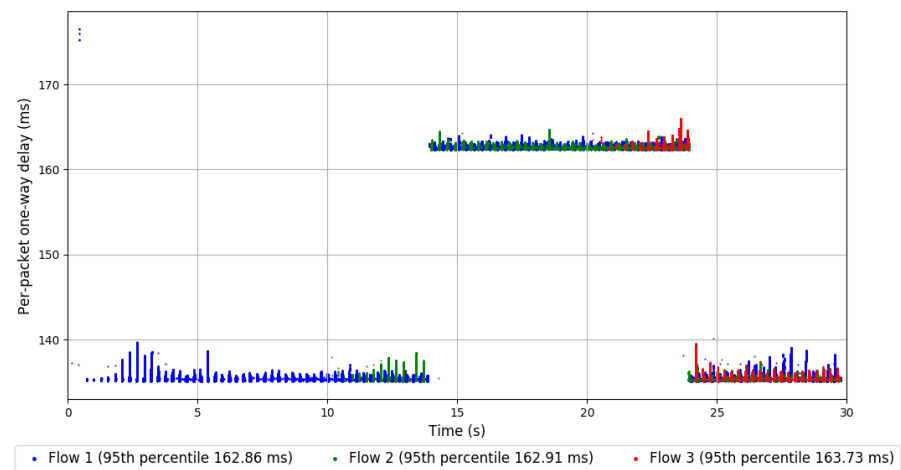
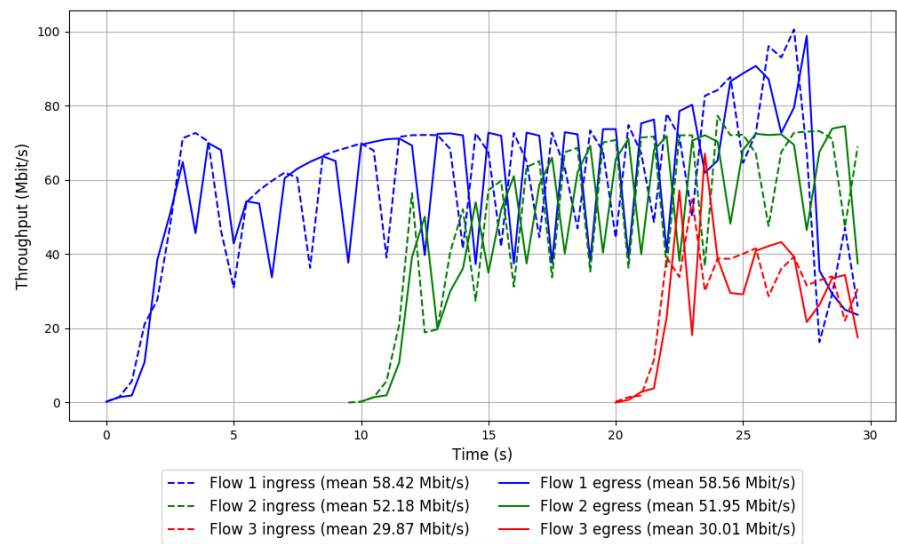
-- Flow 3:

Average throughput: 30.01 Mbit/s

95th percentile per-packet one-way delay: 163.733 ms

Loss rate: 3.04%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-01 03:15:19

End at: 2018-02-01 03:15:49

# Below is generated by plot.py at 2018-02-01 07:46:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.56 Mbit/s

95th percentile per-packet one-way delay: 163.447 ms

Loss rate: 1.76%

-- Flow 1:

Average throughput: 32.58 Mbit/s

95th percentile per-packet one-way delay: 163.383 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 37.54 Mbit/s

95th percentile per-packet one-way delay: 163.854 ms

Loss rate: 1.64%

-- Flow 3:

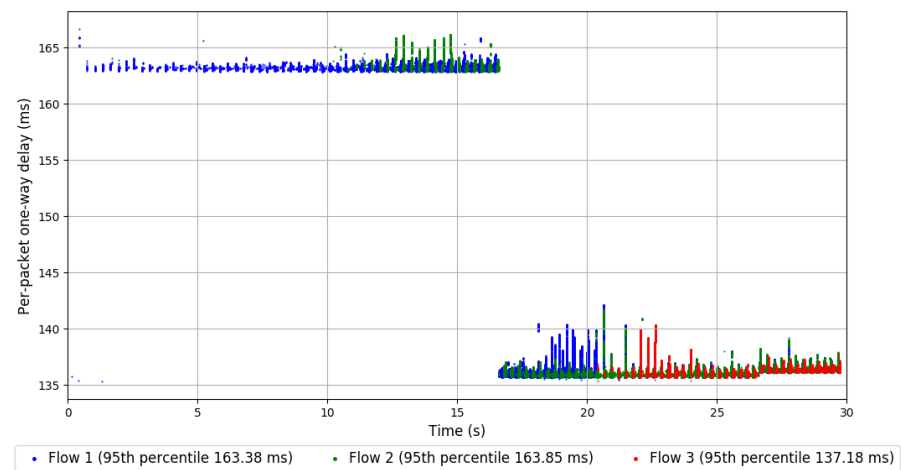
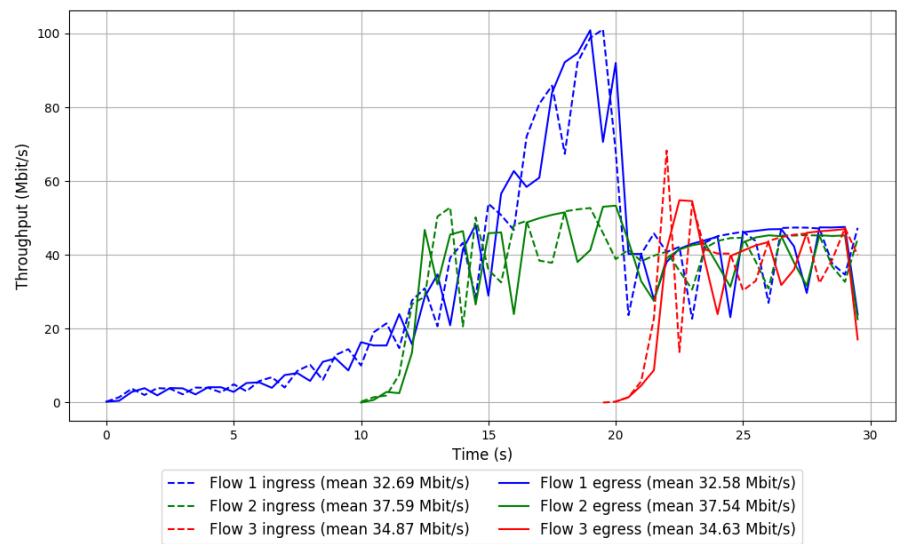
Average throughput: 34.63 Mbit/s

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

Loss rate: 3.44%



Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-01 03:33:36

End at: 2018-02-01 03:34:06

# Below is generated by plot.py at 2018-02-01 07:46:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.29 Mbit/s

95th percentile per-packet one-way delay: 164.164 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 47.02 Mbit/s

95th percentile per-packet one-way delay: 164.140 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 164.264 ms

Loss rate: 4.27%

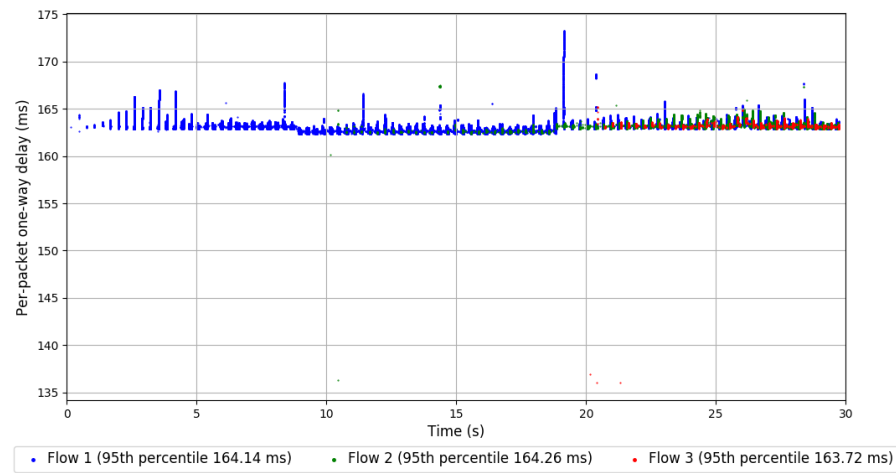
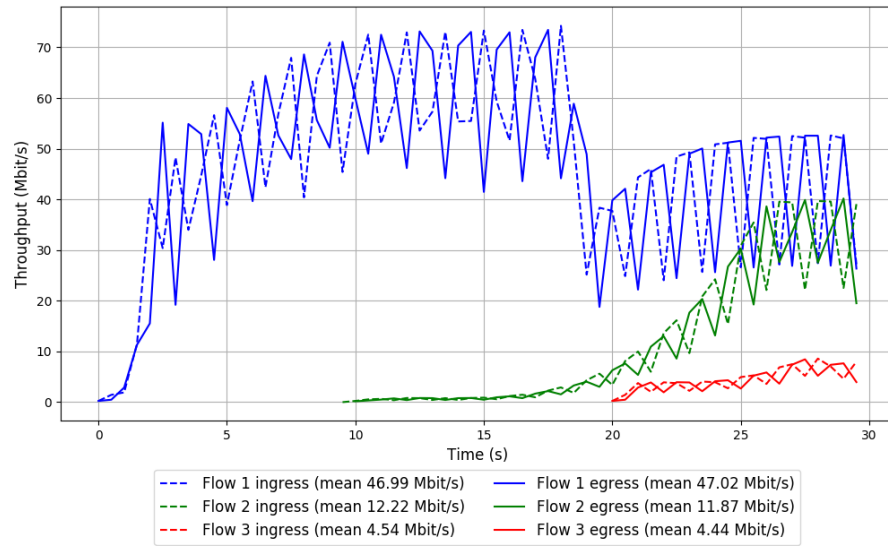
-- Flow 3:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 163.725 ms

Loss rate: 4.84%

## Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-01 03:52:08

End at: 2018-02-01 03:52:38

# Below is generated by plot.py at 2018-02-01 07:46:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.98 Mbit/s

95th percentile per-packet one-way delay: 165.532 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 42.06 Mbit/s

95th percentile per-packet one-way delay: 164.524 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 32.94 Mbit/s

95th percentile per-packet one-way delay: 168.188 ms

Loss rate: 3.55%

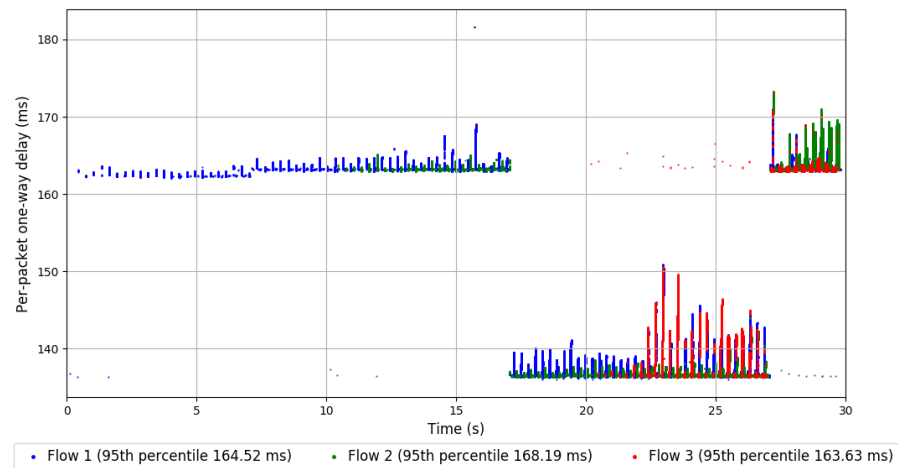
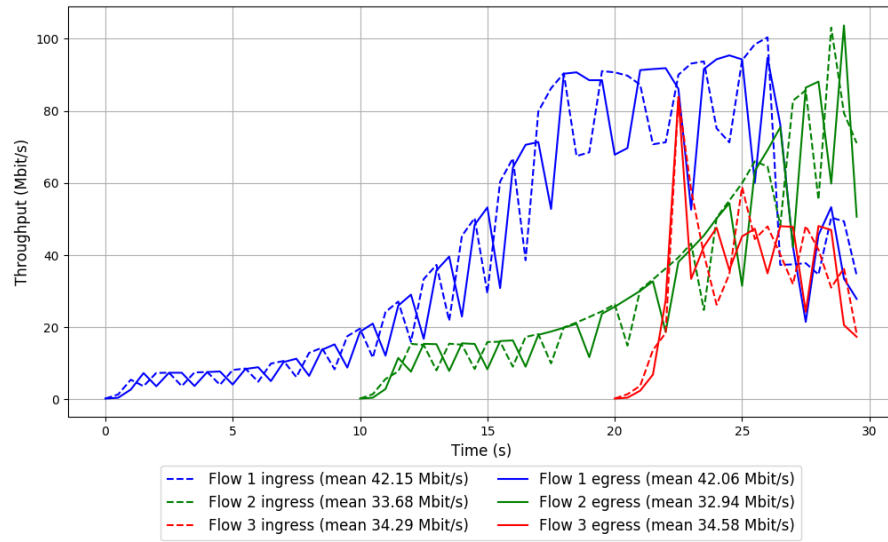
-- Flow 3:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 163.632 ms

Loss rate: 2.66%

## Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-01 04:11:04

End at: 2018-02-01 04:11:34

# Below is generated by plot.py at 2018-02-01 07:46:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 40.16 Mbit/s

95th percentile per-packet one-way delay: 168.991 ms

Loss rate: 2.61%

-- Flow 1:

Average throughput: 31.27 Mbit/s

95th percentile per-packet one-way delay: 169.242 ms

Loss rate: 2.49%

-- Flow 2:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 167.488 ms

Loss rate: 2.76%

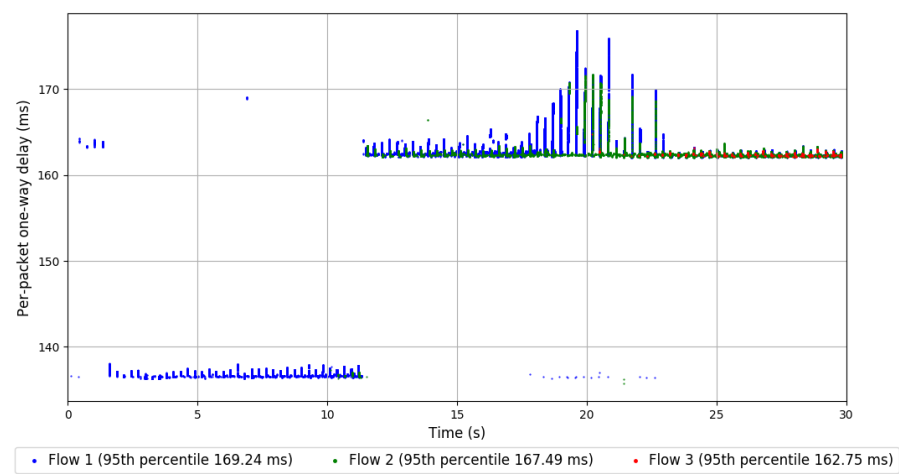
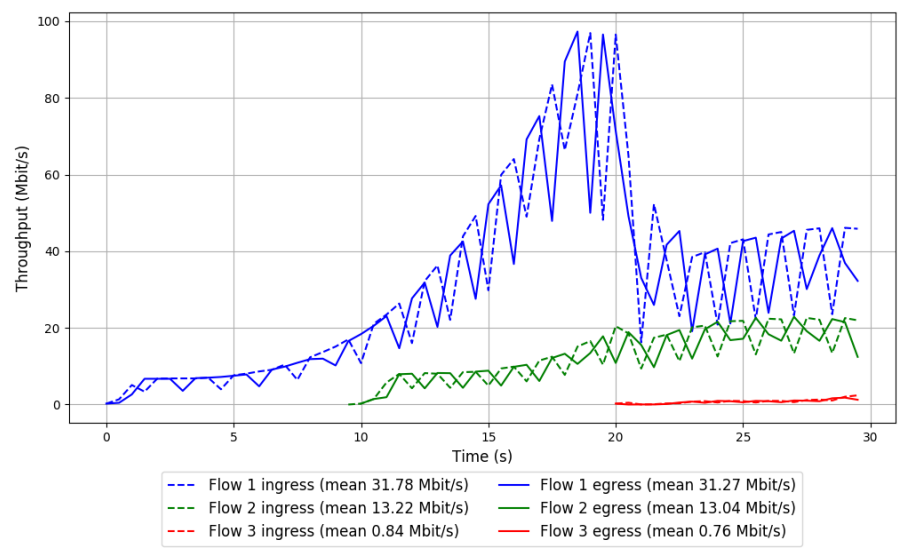
-- Flow 3:

Average throughput: 0.76 Mbit/s

95th percentile per-packet one-way delay: 162.747 ms

Loss rate: 11.61%

Run 10: Report of TCP Cubic — Data Link



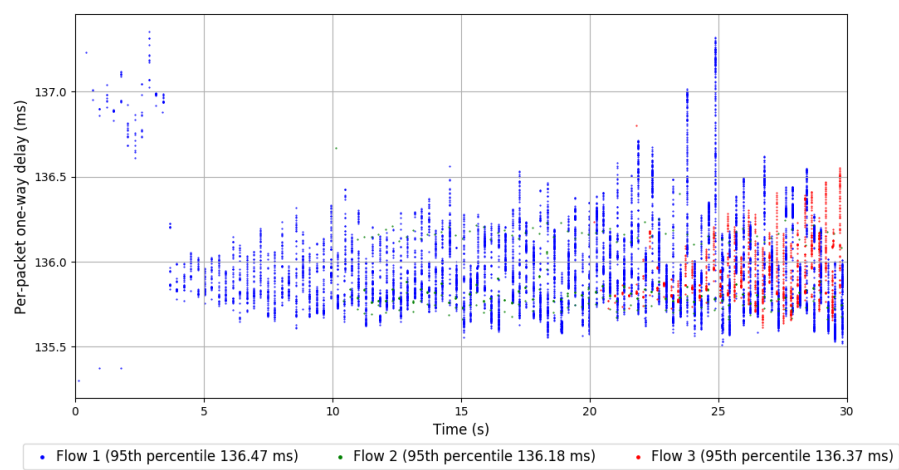
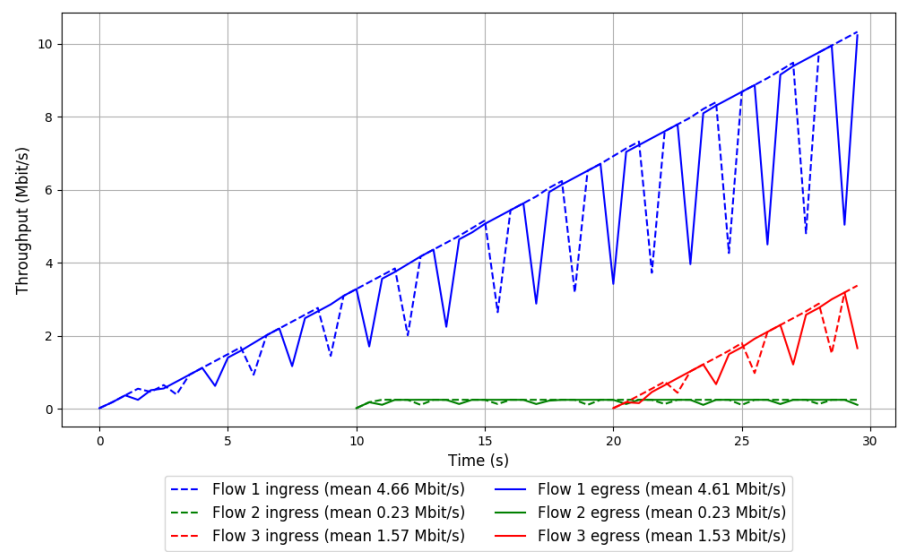
```
Run 1: Statistics of LEDBAT

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

# Below is generated by plot.py at 2018-02-01 07:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 136.448 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 4.61 Mbit/s
95th percentile per-packet one-way delay: 136.472 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.184 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 136.369 ms
Loss rate: 5.54%
```



Run 1: Report of LEDBAT — Data Link

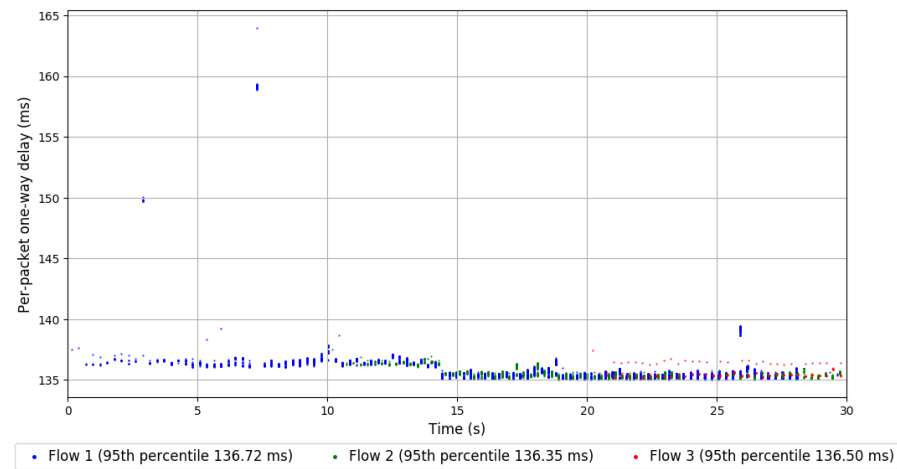
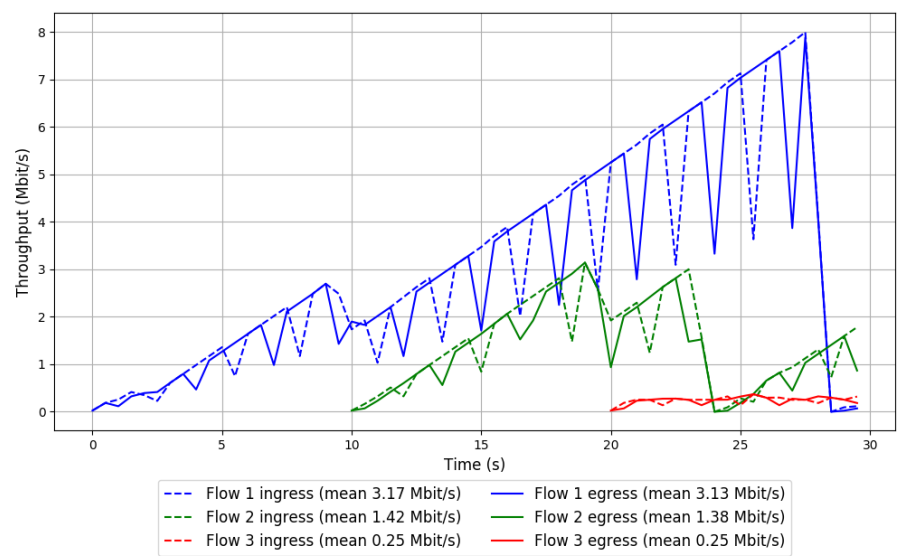


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-01 01:46:21
End at: 2018-02-01 01:46:51

# Below is generated by plot.py at 2018-02-01 07:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 136.656 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 136.717 ms
Loss rate: 2.23%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 136.353 ms
Loss rate: 4.40%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 136.498 ms
Loss rate: 2.80%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-01 02:04:44

End at: 2018-02-01 02:05:14

# Below is generated by plot.py at 2018-02-01 07:46:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 136.722 ms

Loss rate: 2.81%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 136.708 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 136.814 ms

Loss rate: 1.29%

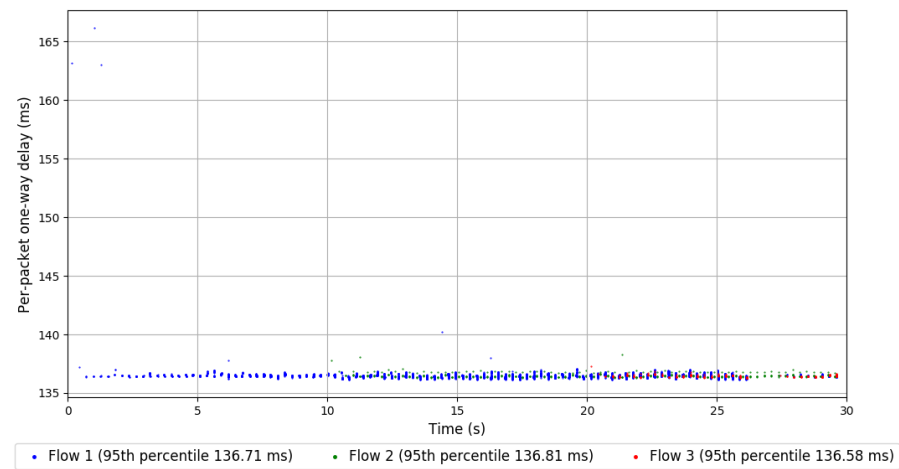
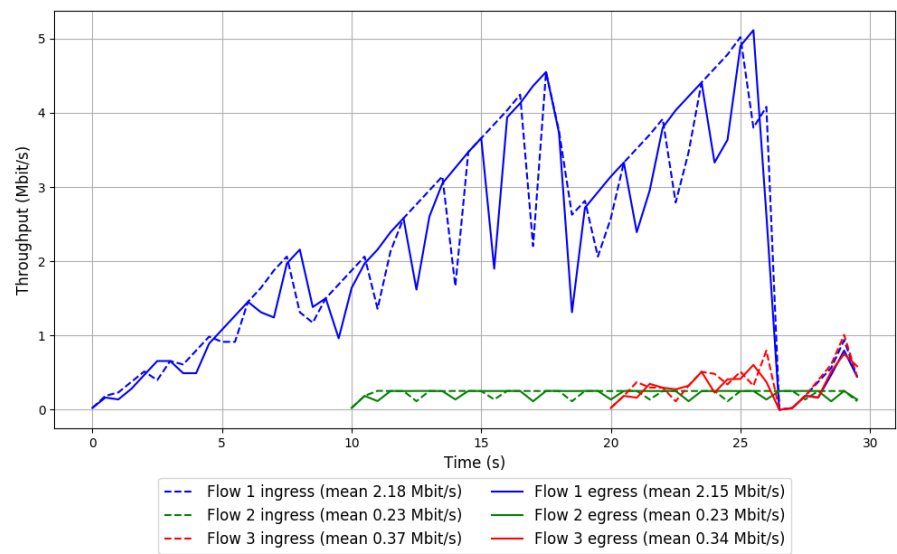
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.584 ms

Loss rate: 11.95%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-01 02:23:04

End at: 2018-02-01 02:23:34

# Below is generated by plot.py at 2018-02-01 07:46:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 137.410 ms

Loss rate: 4.48%

-- Flow 1:

Average throughput: 0.78 Mbit/s

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

Loss rate: 3.64%

-- Flow 2:

Average throughput: 0.56 Mbit/s

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

Loss rate: 4.66%

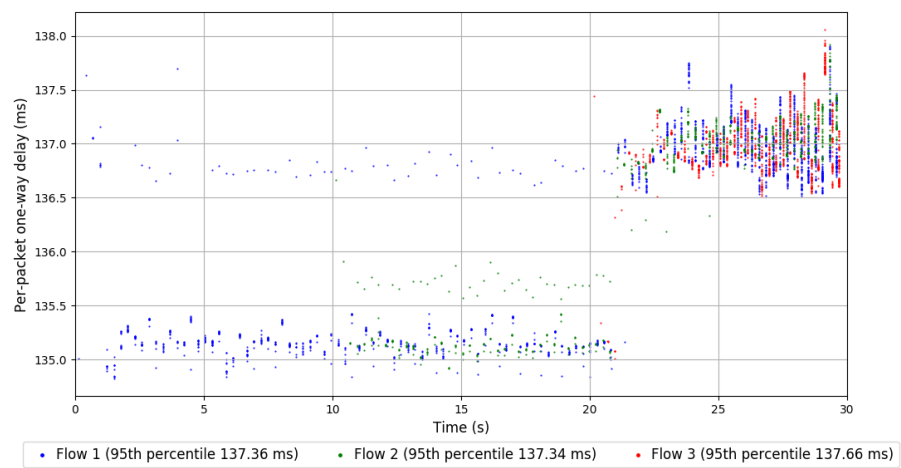
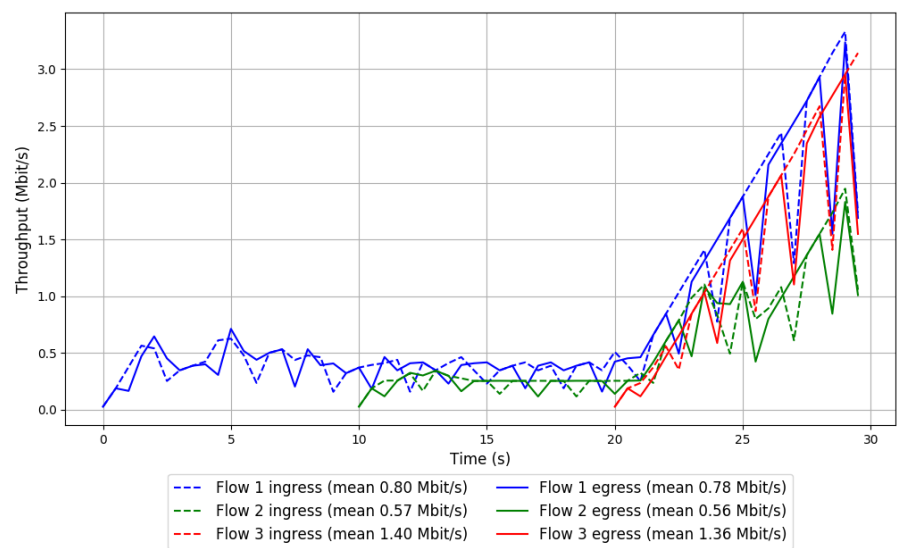
-- Flow 3:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 137.662 ms

Loss rate: 5.79%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-01 02:41:08

End at: 2018-02-01 02:41:38

# Below is generated by plot.py at 2018-02-01 07:46:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.02 Mbit/s

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

Loss rate: 2.42%

-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 163.091 ms

Loss rate: 2.53%

-- Flow 2:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 162.958 ms

Loss rate: 1.76%

-- Flow 3:

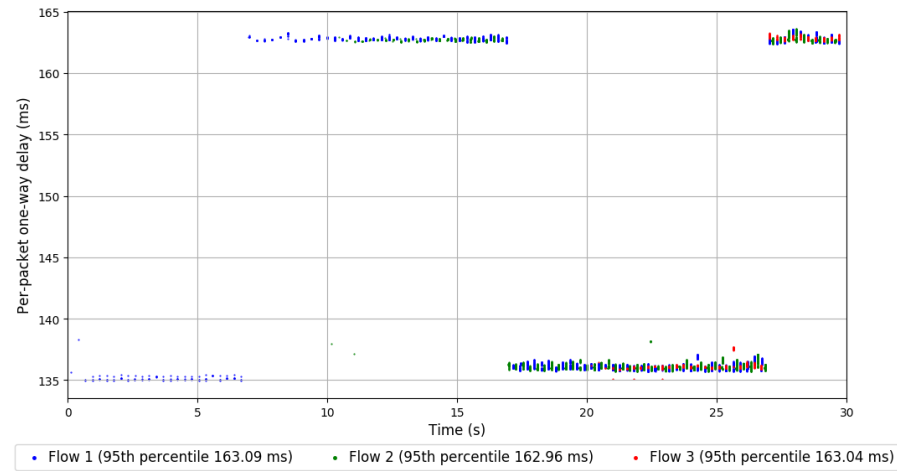
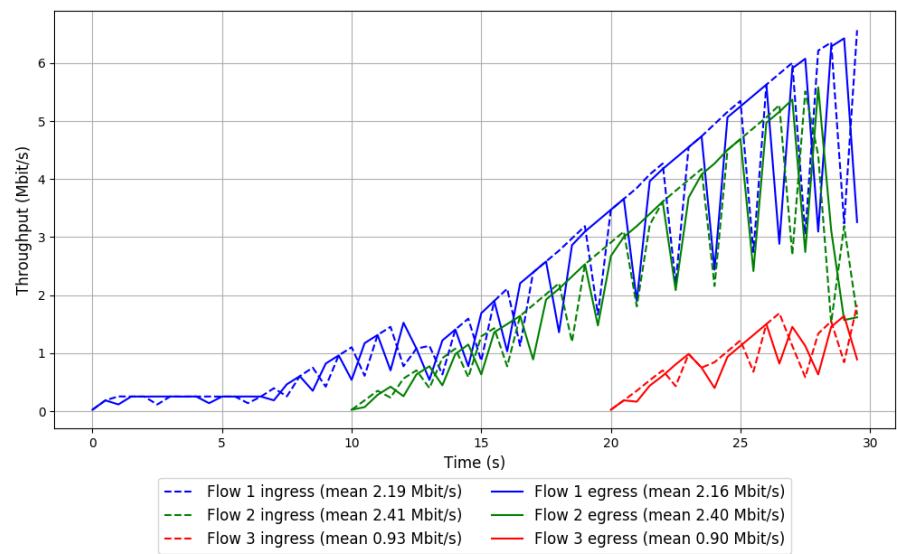
Average throughput: 0.90 Mbit/s

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

Loss rate: 5.15%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-01 02:59:16

End at: 2018-02-01 02:59:46

# Below is generated by plot.py at 2018-02-01 07:46:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.75 Mbit/s

95th percentile per-packet one-way delay: 163.027 ms

Loss rate: 2.88%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 163.083 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 162.874 ms

Loss rate: 3.00%

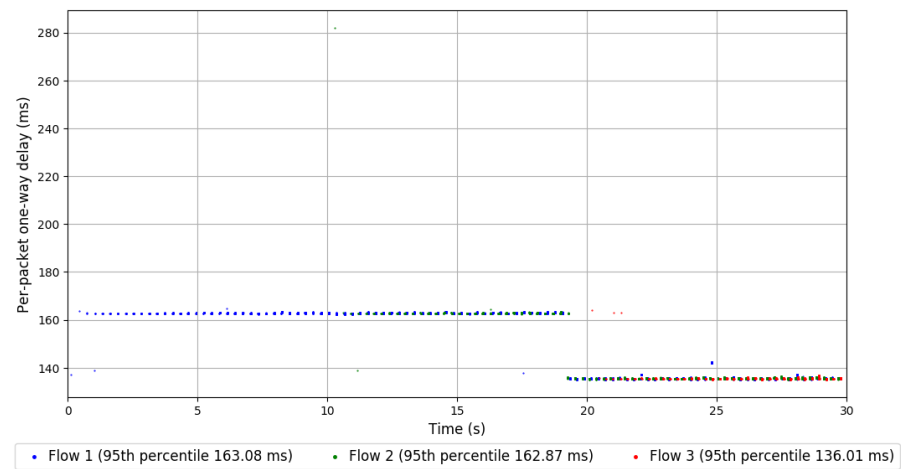
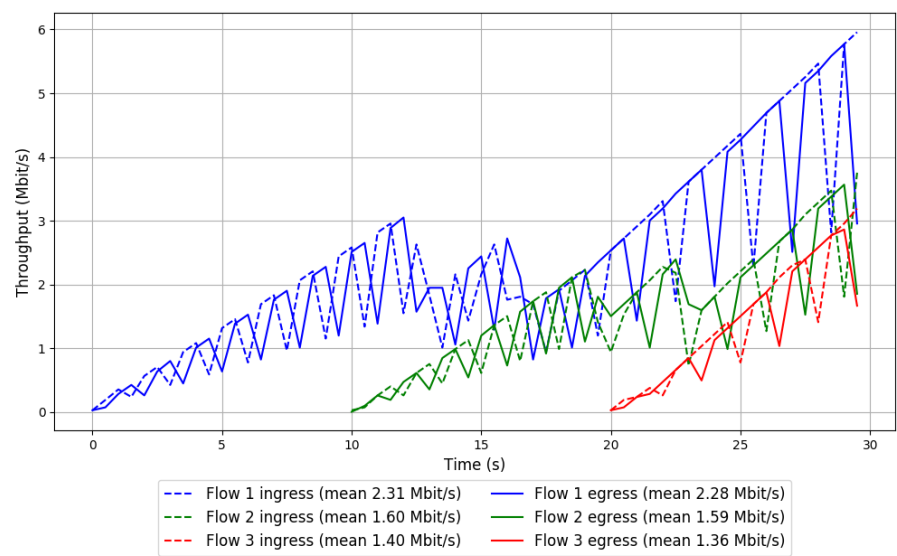
-- Flow 3:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 136.015 ms

Loss rate: 5.84%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-01 03:17:05

End at: 2018-02-01 03:17:35

# Below is generated by plot.py at 2018-02-01 07:46:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 163.072 ms

Loss rate: 2.45%

-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 163.107 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 1.38 Mbit/s

95th percentile per-packet one-way delay: 163.077 ms

Loss rate: 2.22%

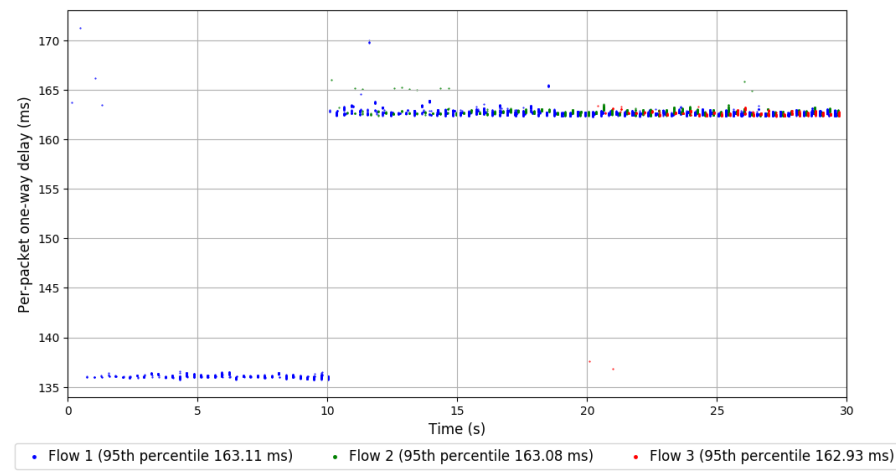
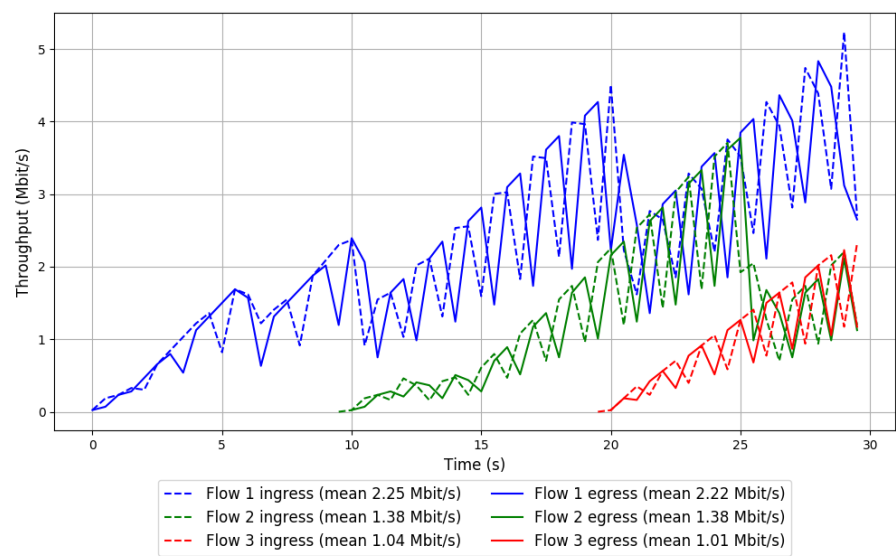
-- Flow 3:

Average throughput: 1.01 Mbit/s

95th percentile per-packet one-way delay: 162.932 ms

Loss rate: 5.84%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-01 03:35:21

End at: 2018-02-01 03:35:51

# Below is generated by plot.py at 2018-02-01 07:46:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 163.518 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 163.529 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 163.528 ms

Loss rate: 2.73%

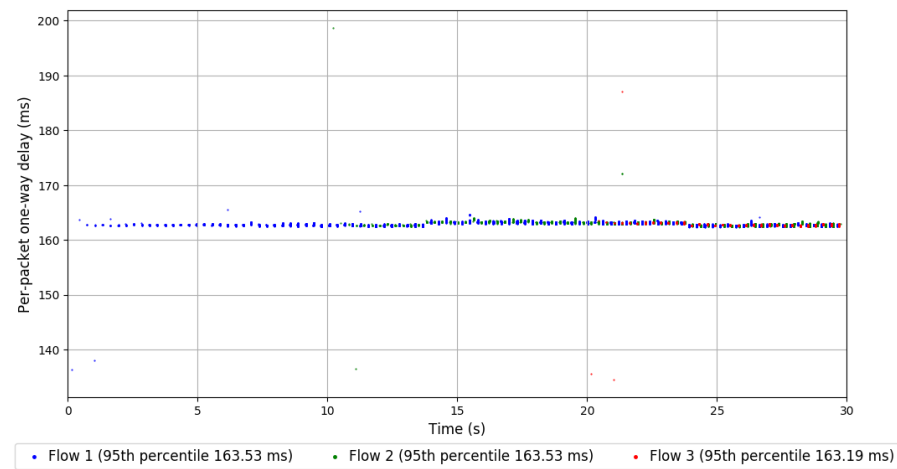
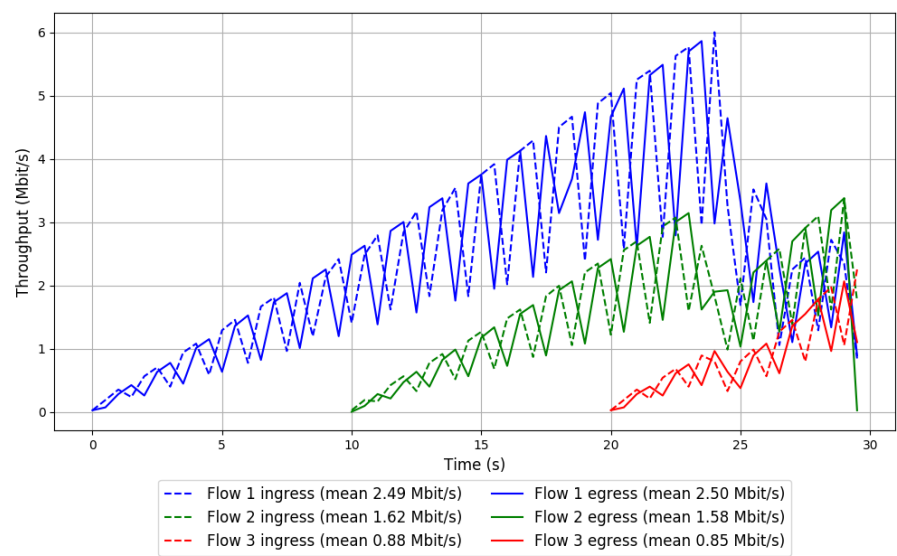
-- Flow 3:

Average throughput: 0.85 Mbit/s

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

Loss rate: 6.63%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-01 03:53:58

End at: 2018-02-01 03:54:28

# Below is generated by plot.py at 2018-02-01 07:46:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.52 Mbit/s

95th percentile per-packet one-way delay: 163.518 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 163.487 ms

Loss rate: 1.82%

-- Flow 2:

Average throughput: 1.76 Mbit/s

95th percentile per-packet one-way delay: 163.624 ms

Loss rate: 1.81%

-- Flow 3:

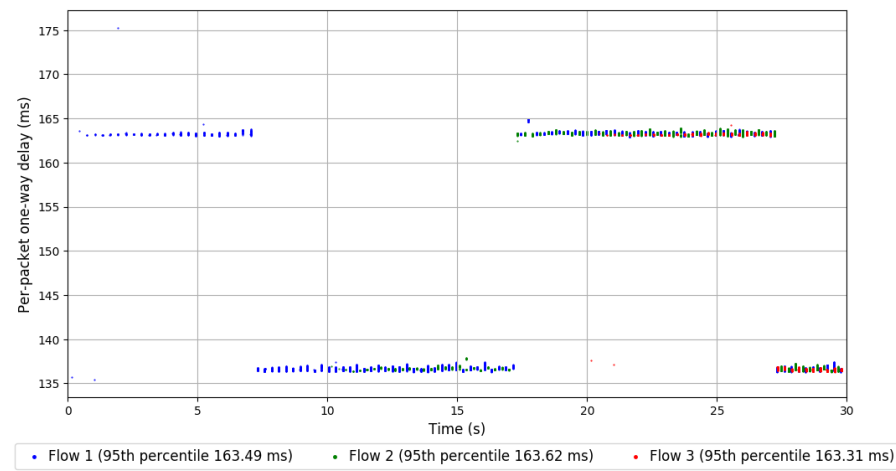
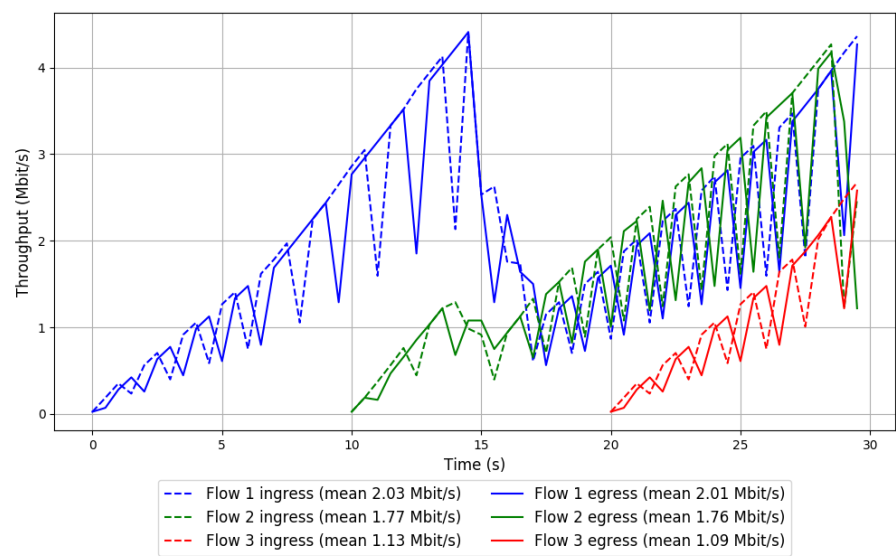
Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 163.312 ms

Loss rate: 6.09%



Run 9: Report of LEDBAT — Data Link

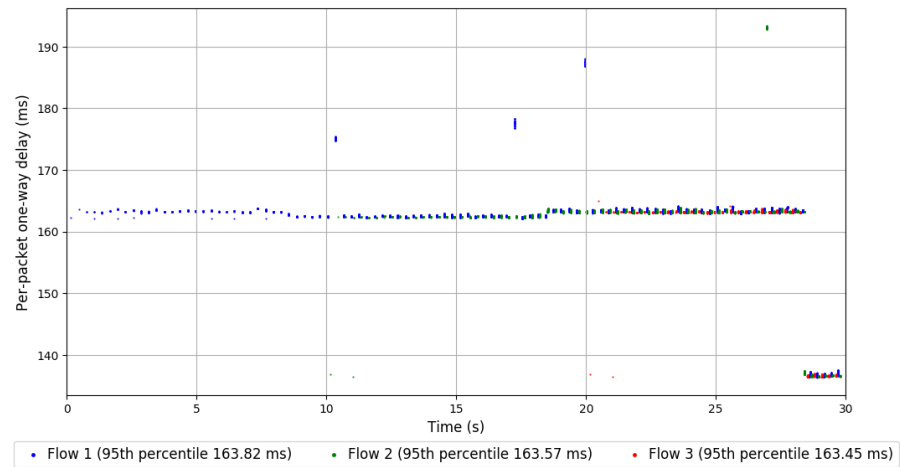
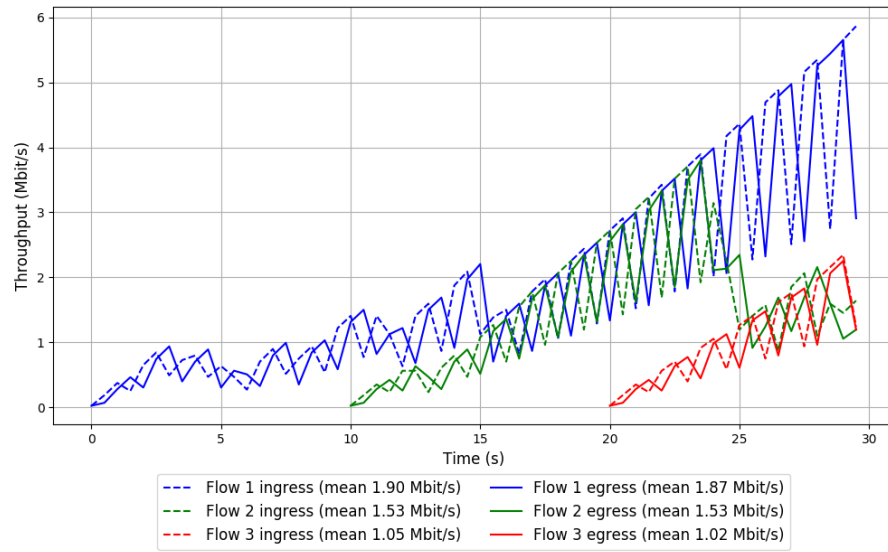


```
Run 10: Statistics of LEDBAT

Start at: 2018-02-01 04:12:57
End at: 2018-02-01 04:13:27

# Below is generated by plot.py at 2018-02-01 07:46:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 163.724 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 163.825 ms
Loss rate: 2.61%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 163.569 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 163.454 ms
Loss rate: 6.07%
```

# Run 10: Report of LEDBAT — Data Link

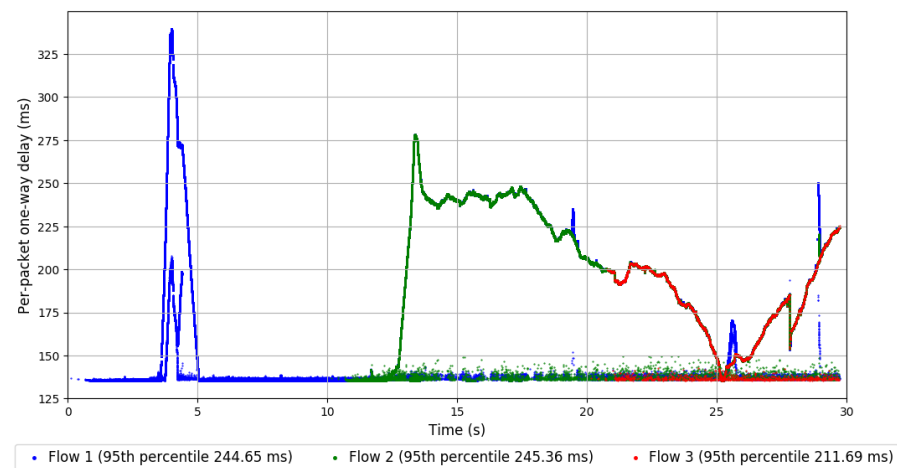
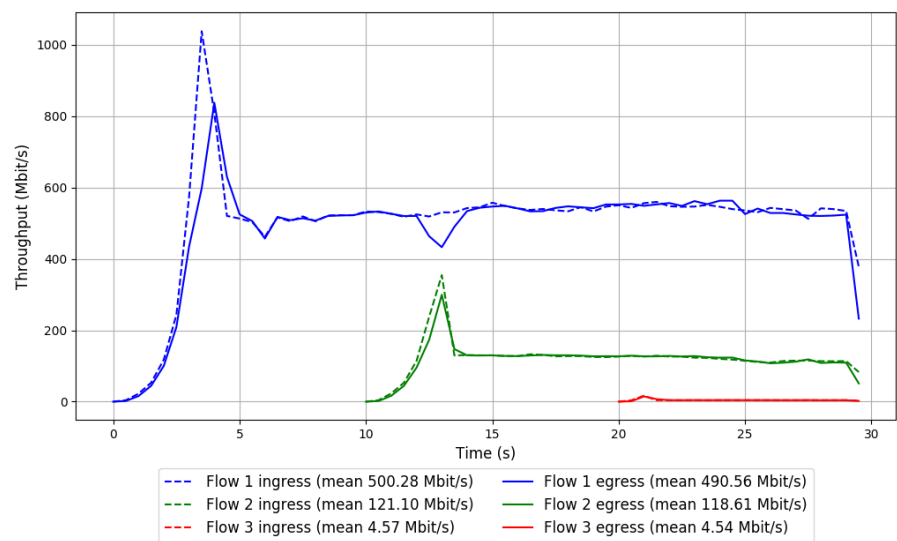


```
Run 1: Statistics of PCC

Start at: 2018-02-01 01:34:04
End at: 2018-02-01 01:34:34

# Below is generated by plot.py at 2018-02-01 07:54:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 570.48 Mbit/s
95th percentile per-packet one-way delay: 244.720 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 490.56 Mbit/s
95th percentile per-packet one-way delay: 244.645 ms
Loss rate: 2.84%
-- Flow 2:
Average throughput: 118.61 Mbit/s
95th percentile per-packet one-way delay: 245.359 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 211.695 ms
Loss rate: 3.23%
```

Run 1: Report of PCC — Data Link

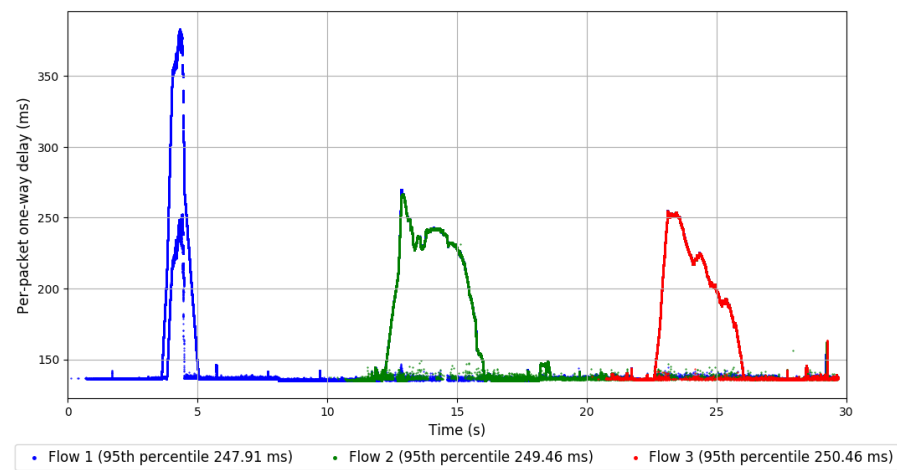
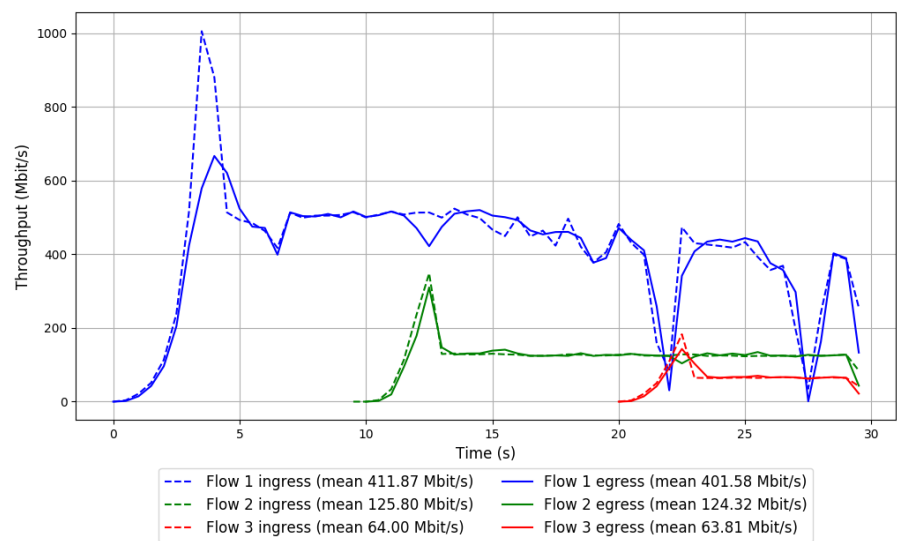


```
Run 2: Statistics of PCC

Start at: 2018-02-01 01:52:47
End at: 2018-02-01 01:53:17

# Below is generated by plot.py at 2018-02-01 07:54:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 504.31 Mbit/s
95th percentile per-packet one-way delay: 248.695 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 401.58 Mbit/s
95th percentile per-packet one-way delay: 247.912 ms
Loss rate: 3.46%
-- Flow 2:
Average throughput: 124.32 Mbit/s
95th percentile per-packet one-way delay: 249.455 ms
Loss rate: 2.65%
-- Flow 3:
Average throughput: 63.81 Mbit/s
95th percentile per-packet one-way delay: 250.456 ms
Loss rate: 3.35%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-01 02:11:17

End at: 2018-02-01 02:11:47

# Below is generated by plot.py at 2018-02-01 07:54:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 553.63 Mbit/s

95th percentile per-packet one-way delay: 237.699 ms

Loss rate: 1.84%

-- Flow 1:

Average throughput: 504.77 Mbit/s

95th percentile per-packet one-way delay: 237.157 ms

Loss rate: 1.76%

-- Flow 2:

Average throughput: 69.82 Mbit/s

95th percentile per-packet one-way delay: 245.174 ms

Loss rate: 2.59%

-- Flow 3:

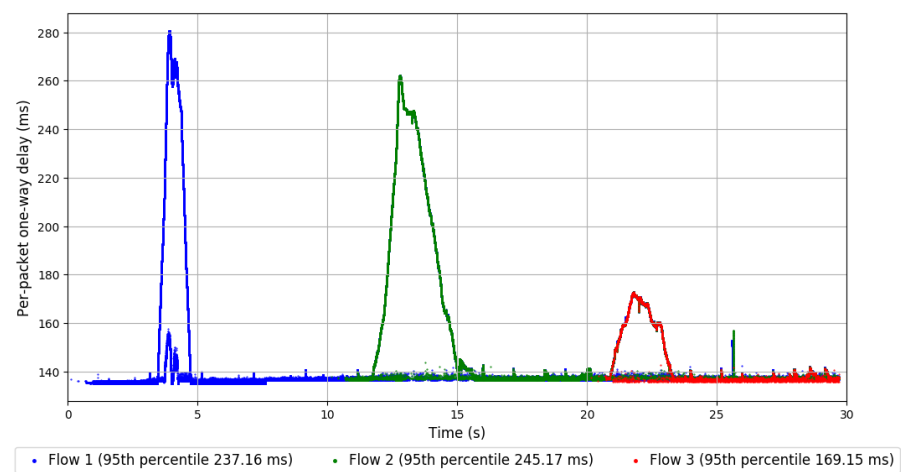
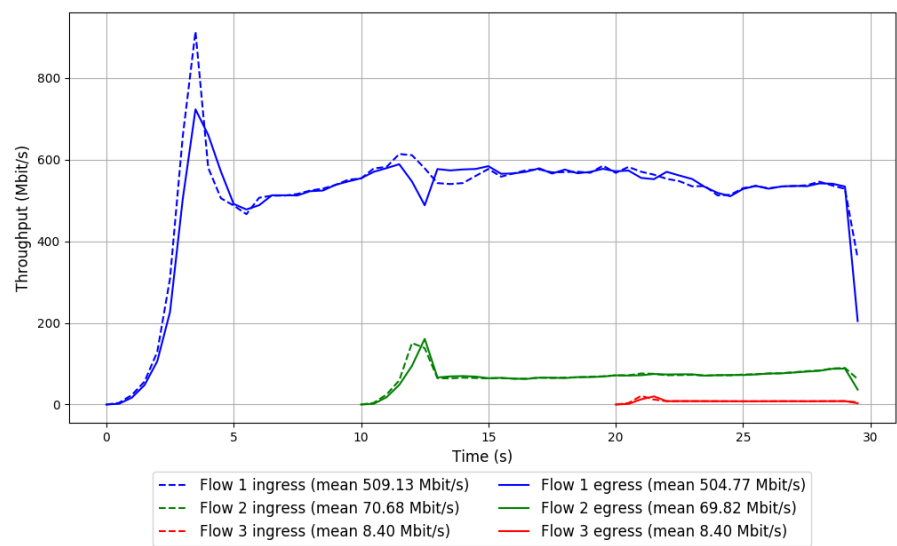
Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 169.149 ms

Loss rate: 2.81%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-01 02:29:23

End at: 2018-02-01 02:29:53

# Below is generated by plot.py at 2018-02-01 07:54:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 540.70 Mbit/s

95th percentile per-packet one-way delay: 255.134 ms

Loss rate: 5.99%

-- Flow 1:

Average throughput: 394.23 Mbit/s

95th percentile per-packet one-way delay: 254.958 ms

Loss rate: 5.42%

-- Flow 2:

Average throughput: 220.92 Mbit/s

95th percentile per-packet one-way delay: 255.487 ms

Loss rate: 7.48%

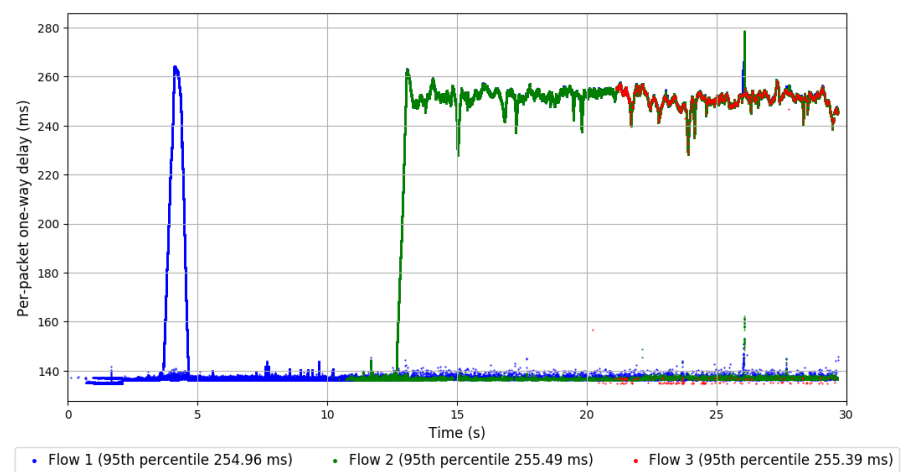
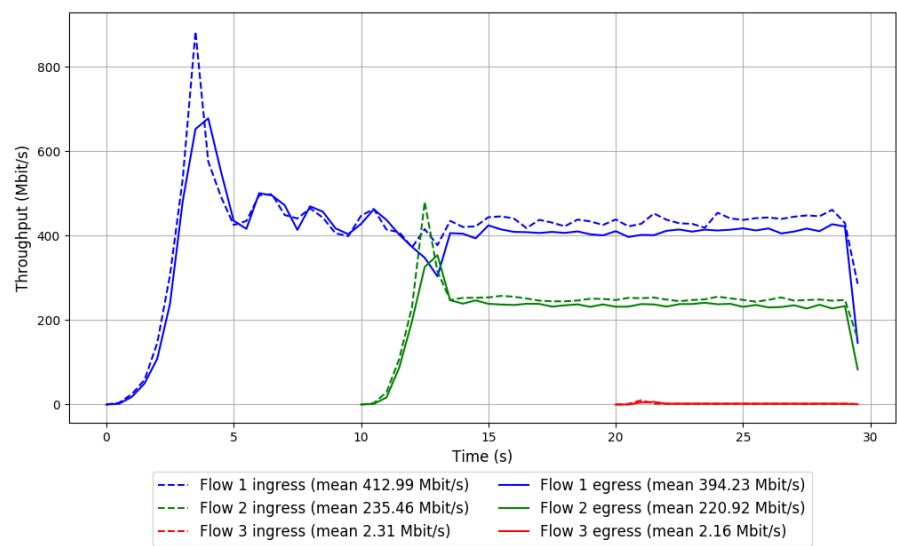
-- Flow 3:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 255.394 ms

Loss rate: 9.30%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-01 02:47:29

End at: 2018-02-01 02:47:59

# Below is generated by plot.py at 2018-02-01 07:54:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 536.82 Mbit/s

95th percentile per-packet one-way delay: 215.606 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 433.32 Mbit/s

95th percentile per-packet one-way delay: 219.031 ms

Loss rate: 1.80%

-- Flow 2:

Average throughput: 140.78 Mbit/s

95th percentile per-packet one-way delay: 214.419 ms

Loss rate: 2.16%

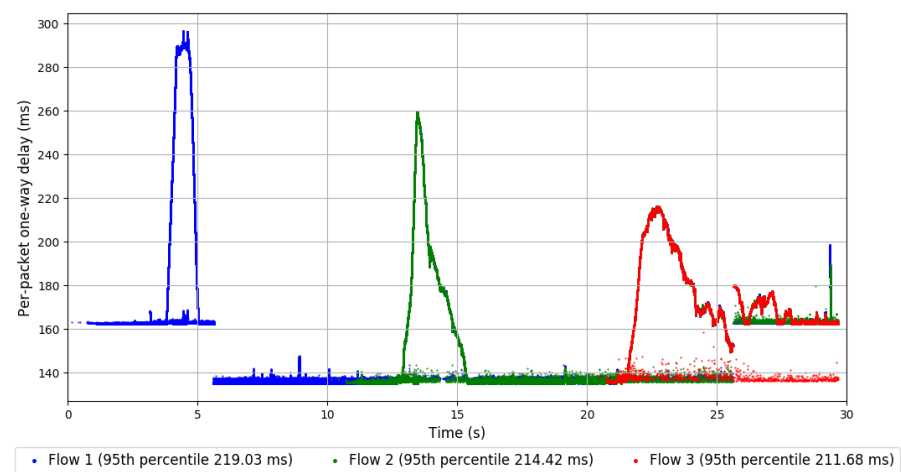
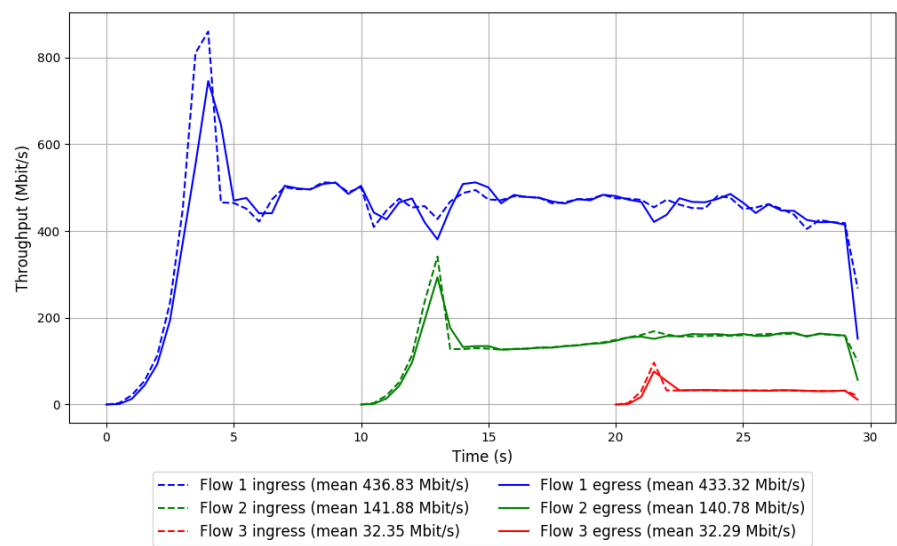
-- Flow 3:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 211.675 ms

Loss rate: 2.99%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-01 03:05:26

End at: 2018-02-01 03:05:56

# Below is generated by plot.py at 2018-02-01 07:54:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 527.94 Mbit/s

95th percentile per-packet one-way delay: 252.797 ms

Loss rate: 3.15%

-- Flow 1:

Average throughput: 425.75 Mbit/s

95th percentile per-packet one-way delay: 252.527 ms

Loss rate: 2.84%

-- Flow 2:

Average throughput: 124.88 Mbit/s

95th percentile per-packet one-way delay: 253.391 ms

Loss rate: 3.74%

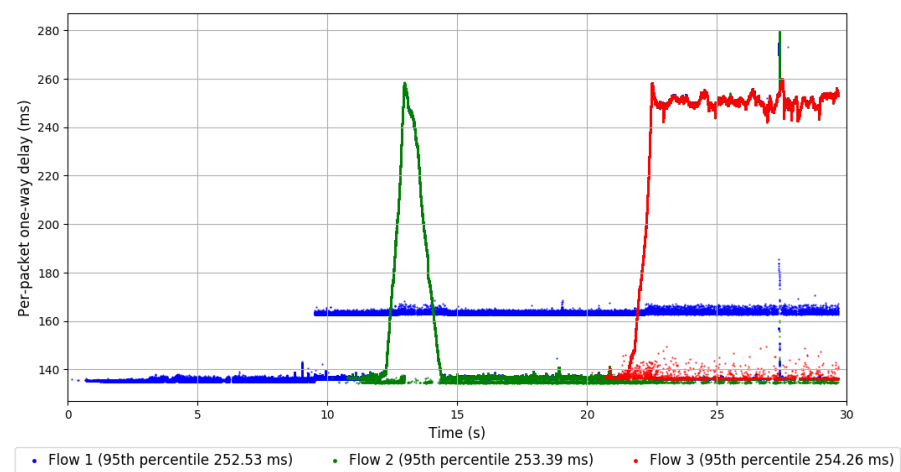
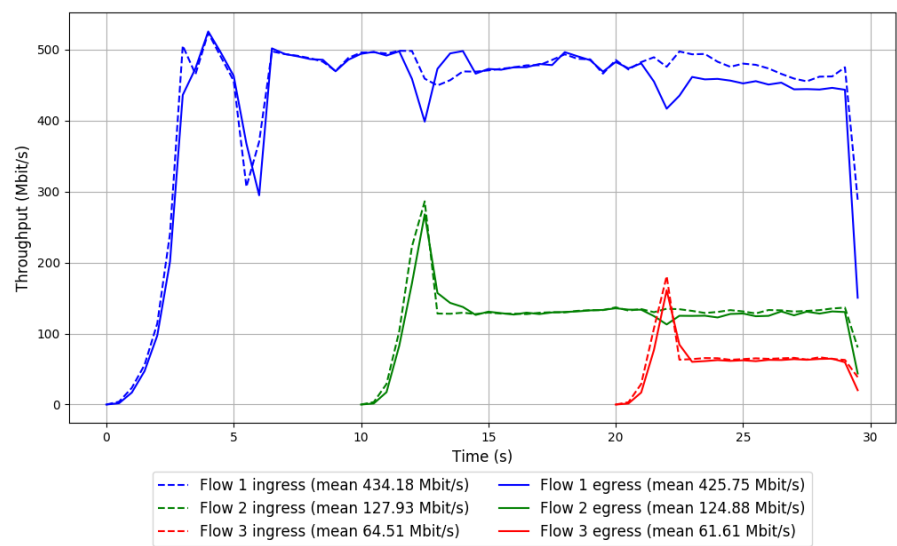
-- Flow 3:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 254.260 ms

Loss rate: 7.18%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-01 03:23:38

End at: 2018-02-01 03:24:08

# Below is generated by plot.py at 2018-02-01 07:54:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 497.66 Mbit/s

95th percentile per-packet one-way delay: 238.586 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 412.31 Mbit/s

95th percentile per-packet one-way delay: 235.892 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 127.41 Mbit/s

95th percentile per-packet one-way delay: 244.326 ms

Loss rate: 2.17%

-- Flow 3:

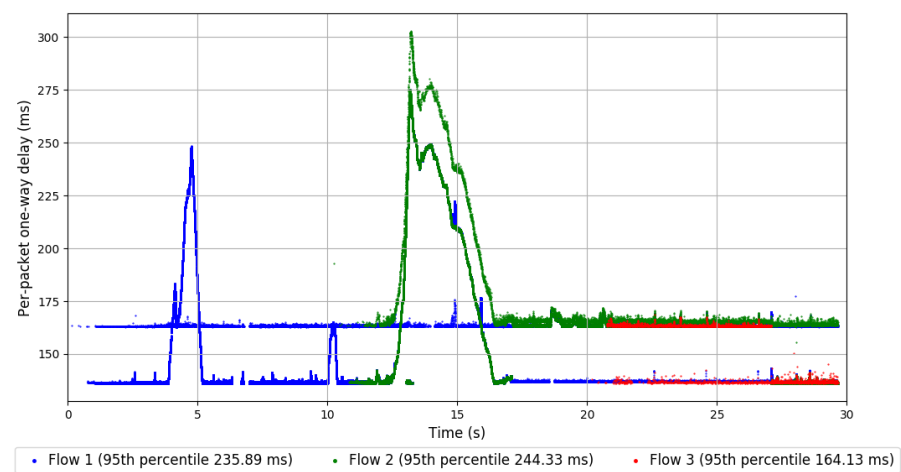
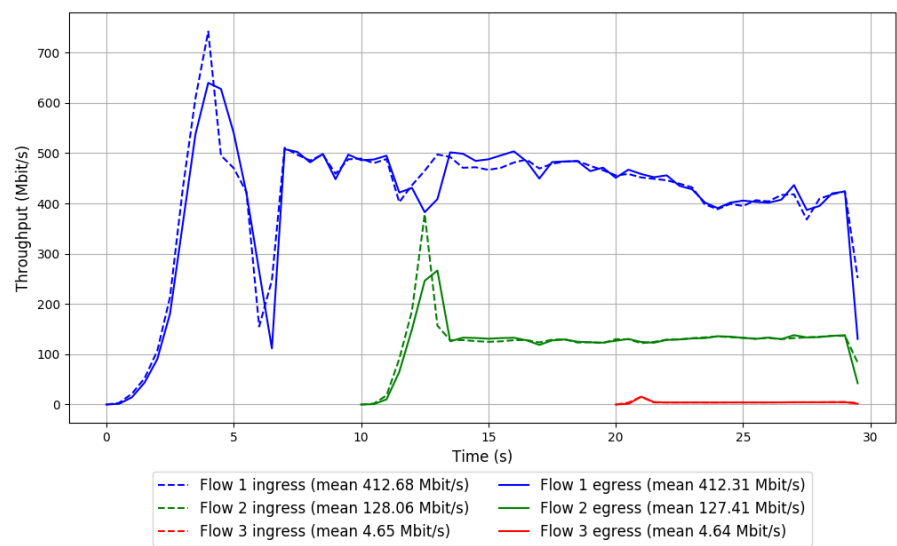
Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 164.126 ms

Loss rate: 3.05%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-01 03:42:00

End at: 2018-02-01 03:42:30

# Below is generated by plot.py at 2018-02-01 07:54:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 340.59 Mbit/s

95th percentile per-packet one-way delay: 250.484 ms

Loss rate: 2.84%

-- Flow 1:

Average throughput: 5.41 Mbit/s

95th percentile per-packet one-way delay: 222.558 ms

Loss rate: 1.64%

-- Flow 2:

Average throughput: 474.80 Mbit/s

95th percentile per-packet one-way delay: 250.303 ms

Loss rate: 2.85%

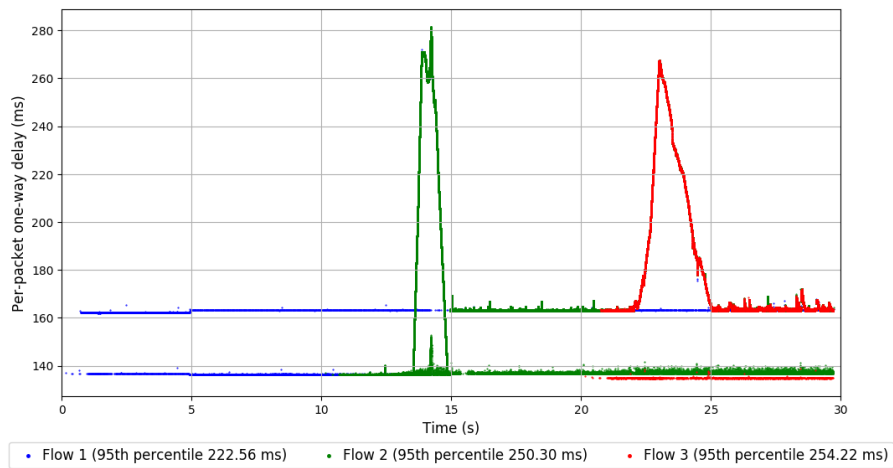
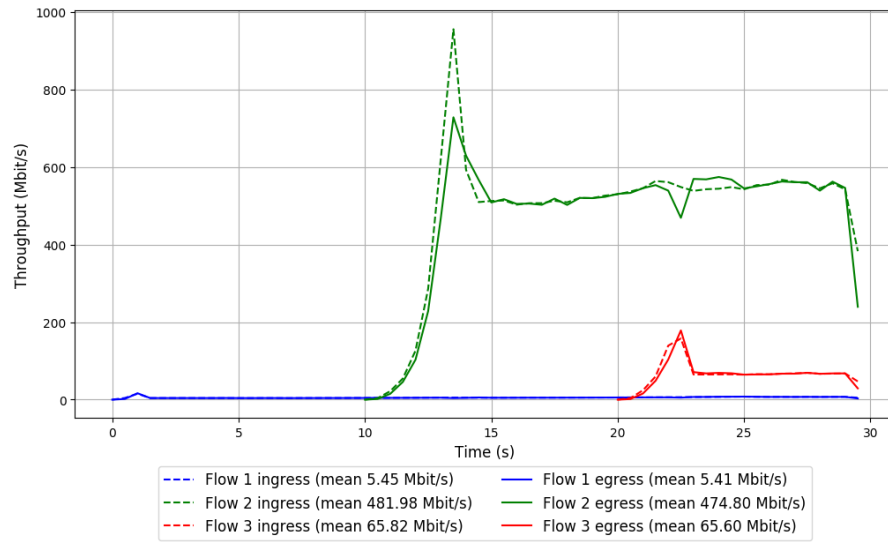
-- Flow 3:

Average throughput: 65.60 Mbit/s

95th percentile per-packet one-way delay: 254.219 ms

Loss rate: 3.09%

## Run 8: Report of PCC — Data Link

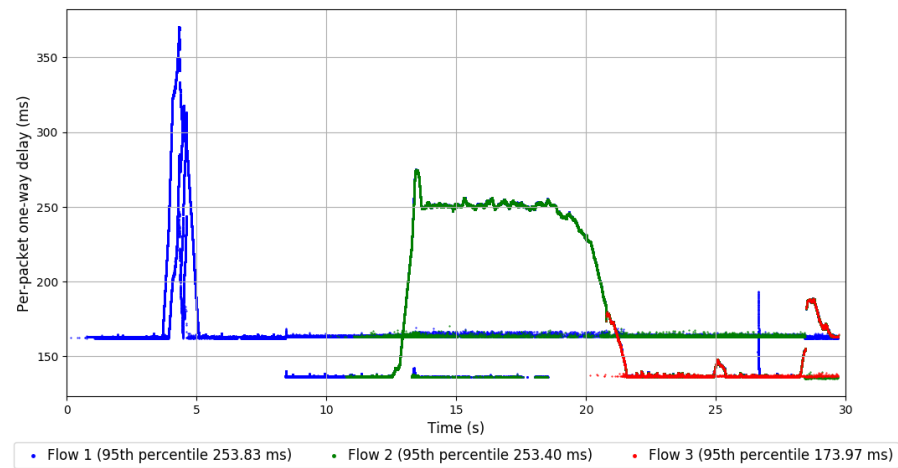
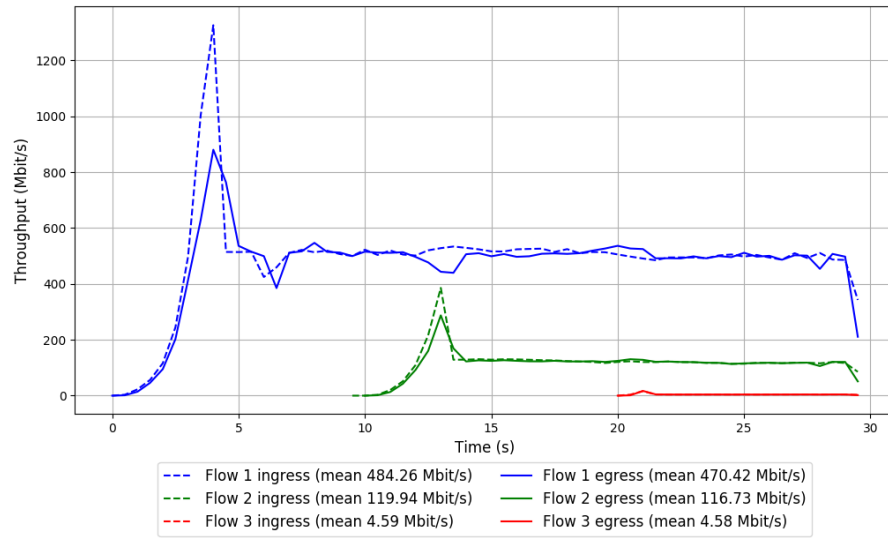


```
Run 9: Statistics of PCC

Start at: 2018-02-01 04:00:37
End at: 2018-02-01 04:01:07

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 549.11 Mbit/s
95th percentile per-packet one-way delay: 253.729 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 470.42 Mbit/s
95th percentile per-packet one-way delay: 253.831 ms
Loss rate: 3.83%
-- Flow 2:
Average throughput: 116.73 Mbit/s
95th percentile per-packet one-way delay: 253.396 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 173.965 ms
Loss rate: 2.88%
```

## Run 9: Report of PCC — Data Link

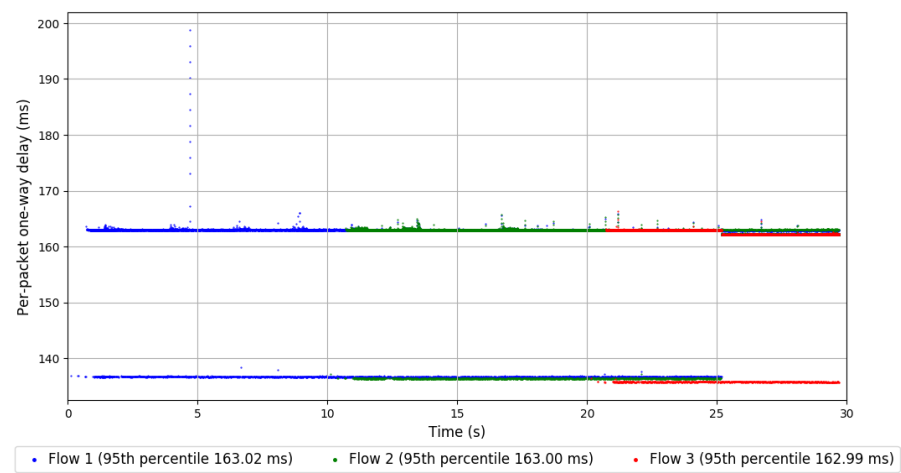
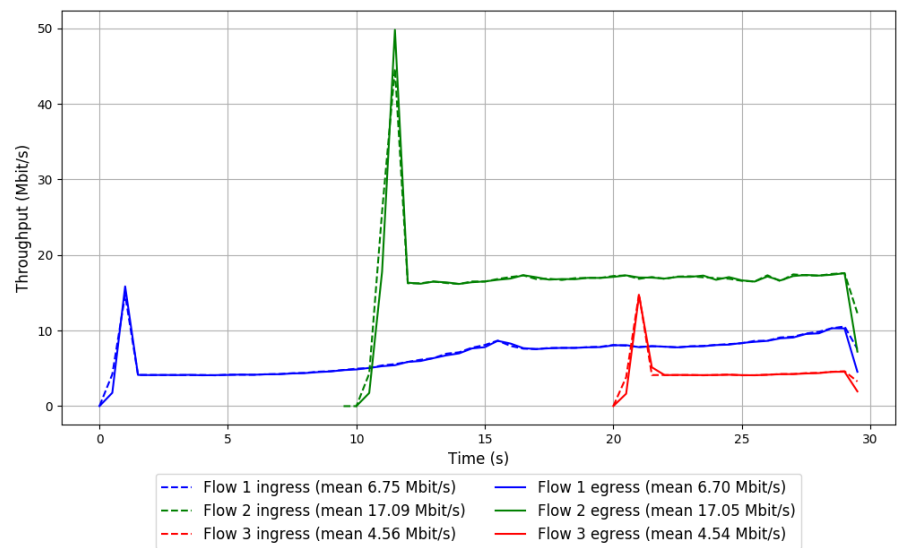


```
Run 10: Statistics of PCC

Start at: 2018-02-01 04:19:30
End at: 2018-02-01 04:20:00

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.45 Mbit/s
95th percentile per-packet one-way delay: 163.008 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 163.024 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 17.05 Mbit/s
95th percentile per-packet one-way delay: 163.001 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 162.989 ms
Loss rate: 3.18%
```

Run 10: Report of PCC — Data Link



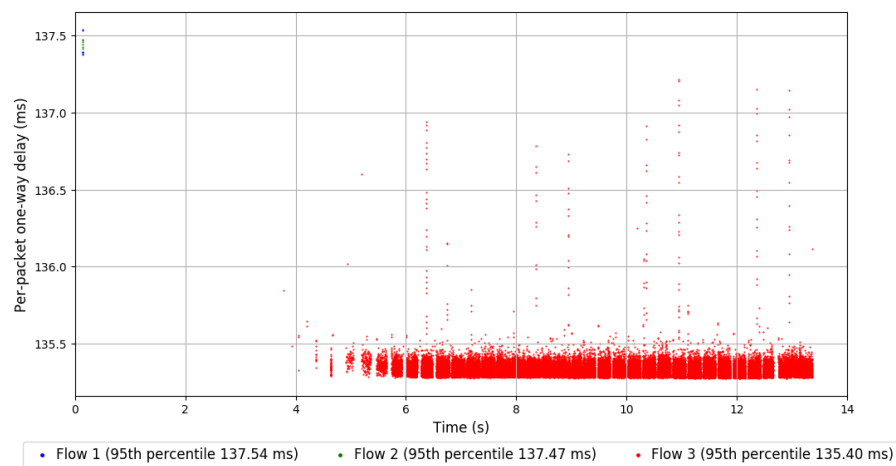
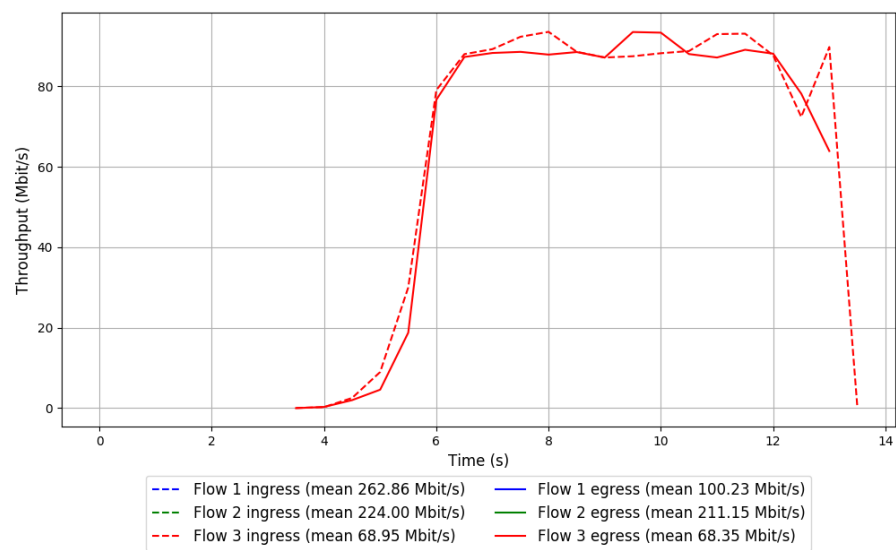
Run 1: Statistics of QUIC Cubic

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

End at: 2018-02-01 01:28:31



Run 1: Report of QUIC Cubic — Data Link

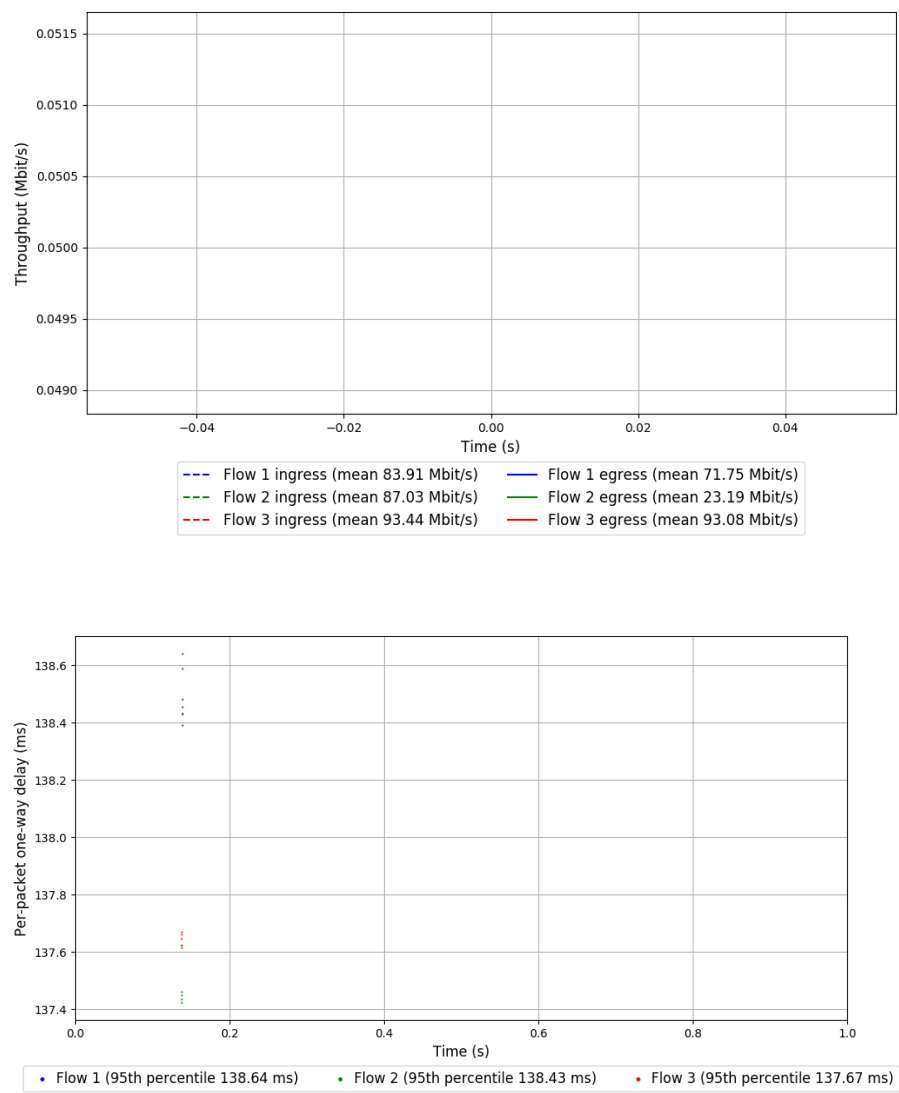


Run 2: Statistics of QUIC Cubic

Start at: 2018-02-01 01:47:10

End at: 2018-02-01 01:47:40

Run 2: Report of QUIC Cubic — Data Link

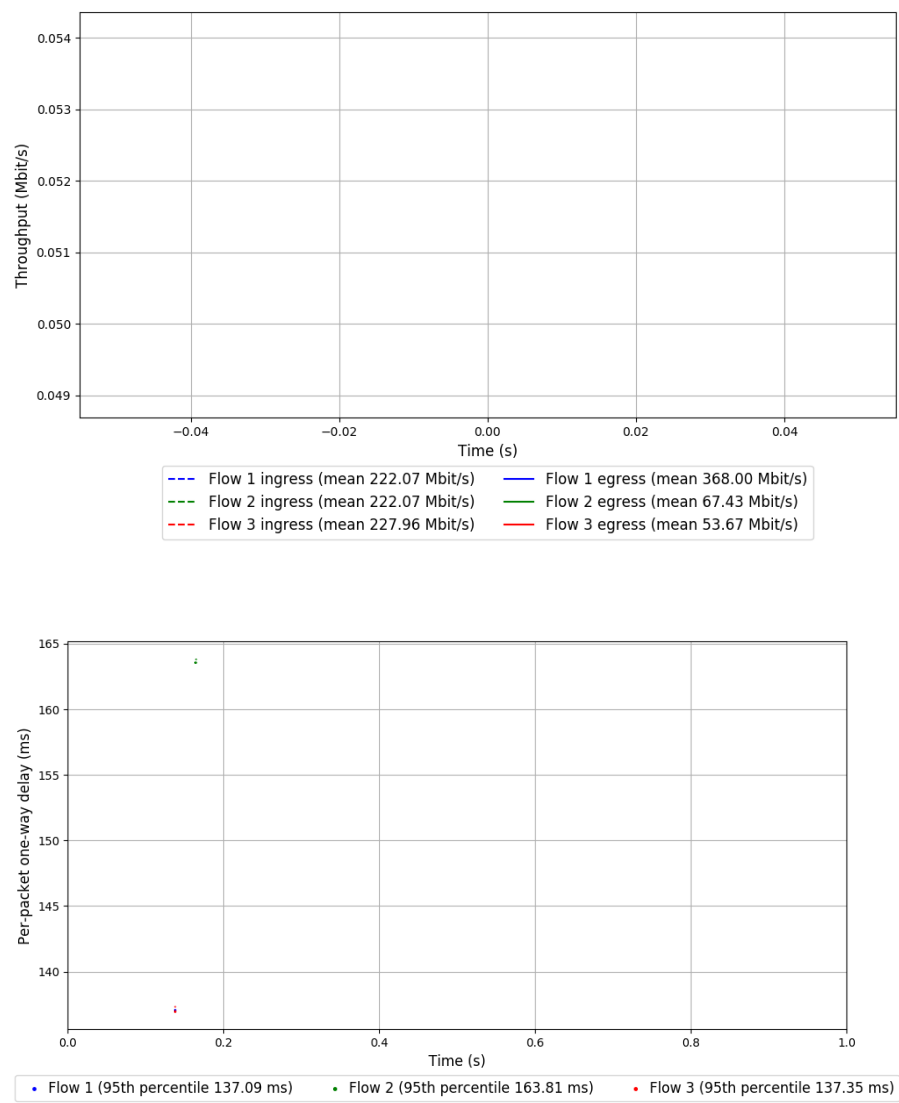


Run 3: Statistics of QUIC Cubic

Start at: 2018-02-01 02:05:34

End at: 2018-02-01 02:06:04

Run 3: Report of QUIC Cubic — Data Link

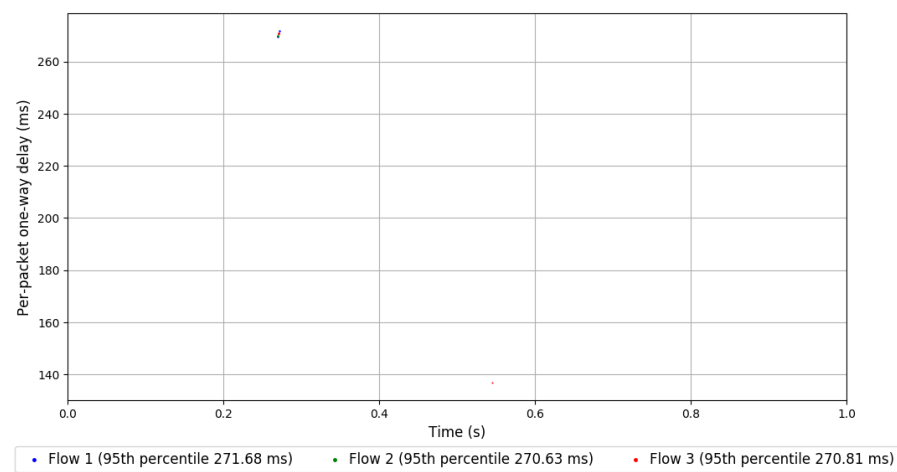
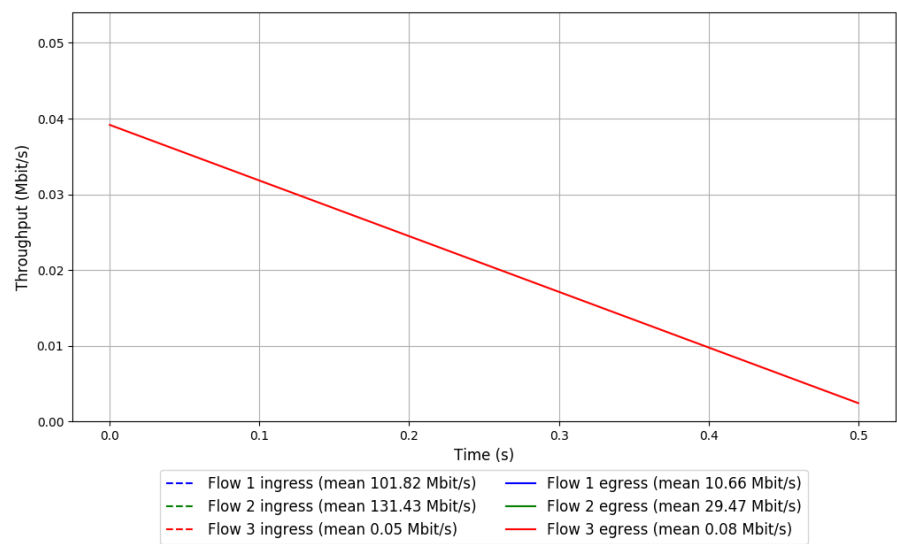


Run 4: Statistics of QUIC Cubic

Start at: 2018-02-01 02:23:53

End at: 2018-02-01 02:24:23

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-01 02:41:58

End at: 2018-02-01 02:42:28

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.08 Mbit/s

95th percentile per-packet one-way delay: 162.461 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 54.81 Mbit/s

95th percentile per-packet one-way delay: 135.273 ms

Loss rate: 1.00%

-- Flow 2:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 136.051 ms

Loss rate: 1.67%

-- Flow 3:

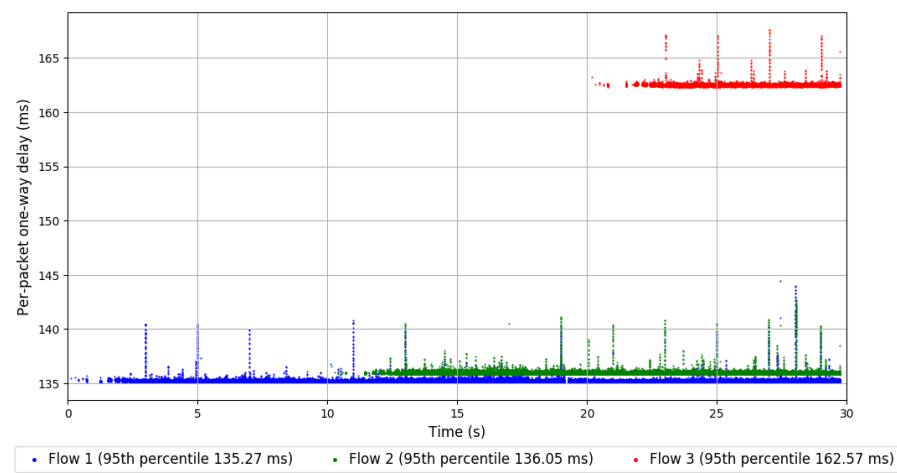
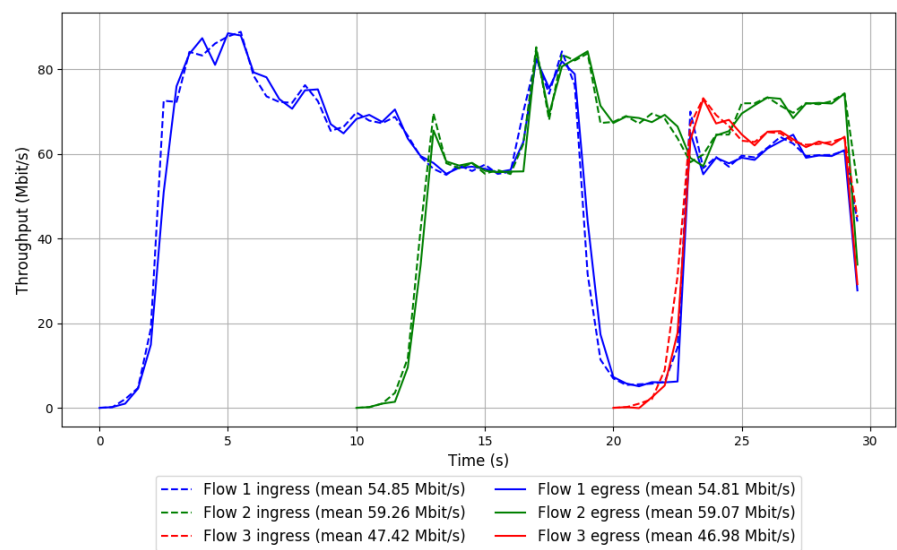
Average throughput: 46.98 Mbit/s

95th percentile per-packet one-way delay: 162.571 ms

Loss rate: 3.91%



Run 5: Report of QUIC Cubic — Data Link

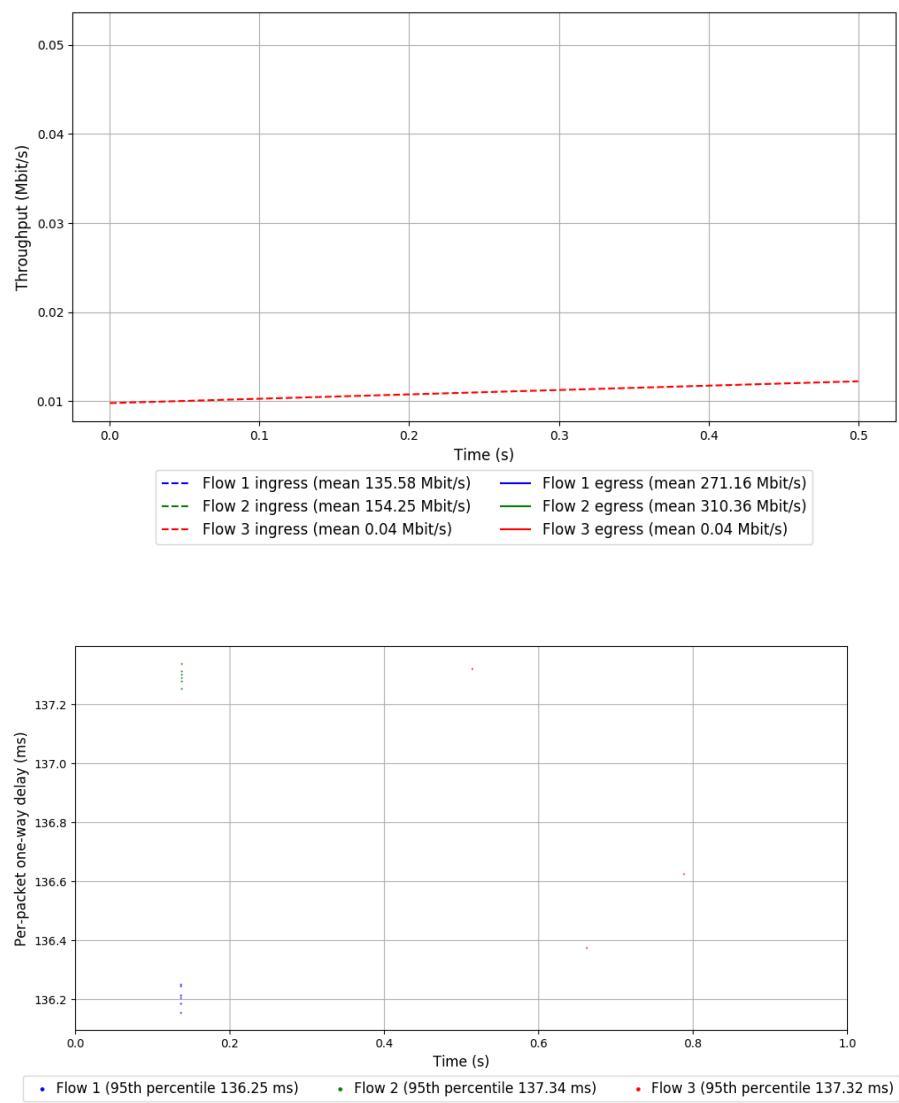


Run 6: Statistics of QUIC Cubic

Start at: 2018-02-01 03:00:05

End at: 2018-02-01 03:00:35

Run 6: Report of QUIC Cubic — Data Link

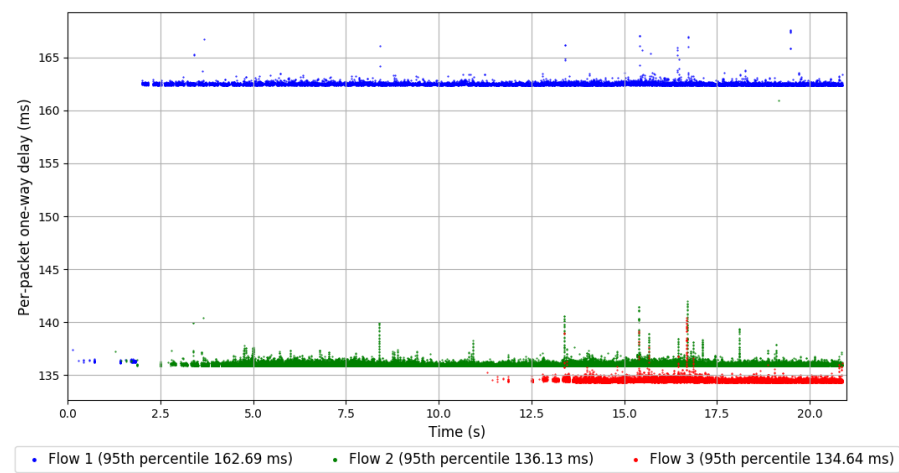
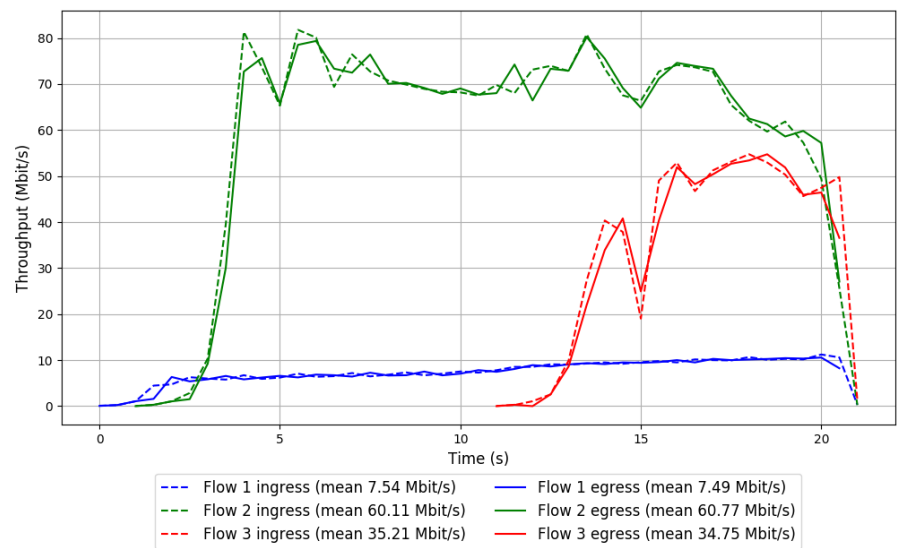


Run 7: Statistics of QUIC Cubic

Start at: 2018-02-01 03:17:54

End at: 2018-02-01 03:18:24

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-01 03:36:11

End at: 2018-02-01 03:36:41

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 110.47 Mbit/s

95th percentile per-packet one-way delay: 163.224 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 162.904 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 60.45 Mbit/s

95th percentile per-packet one-way delay: 163.288 ms

Loss rate: 0.42%

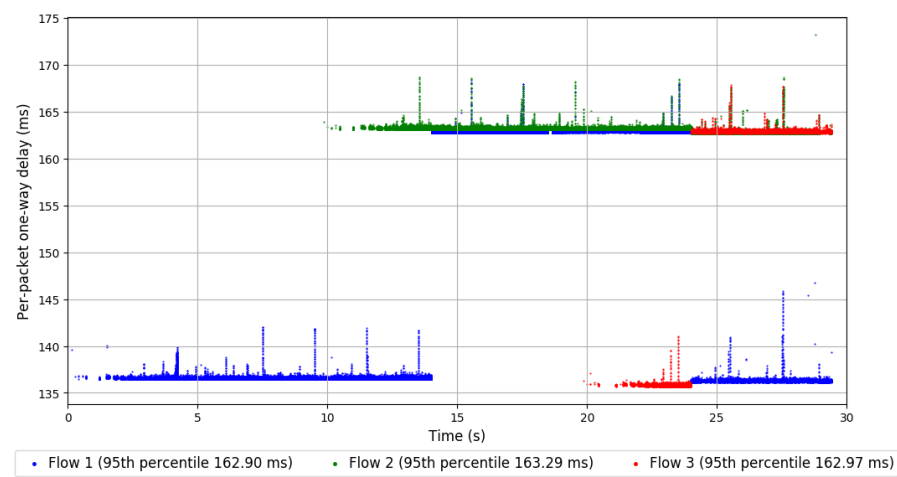
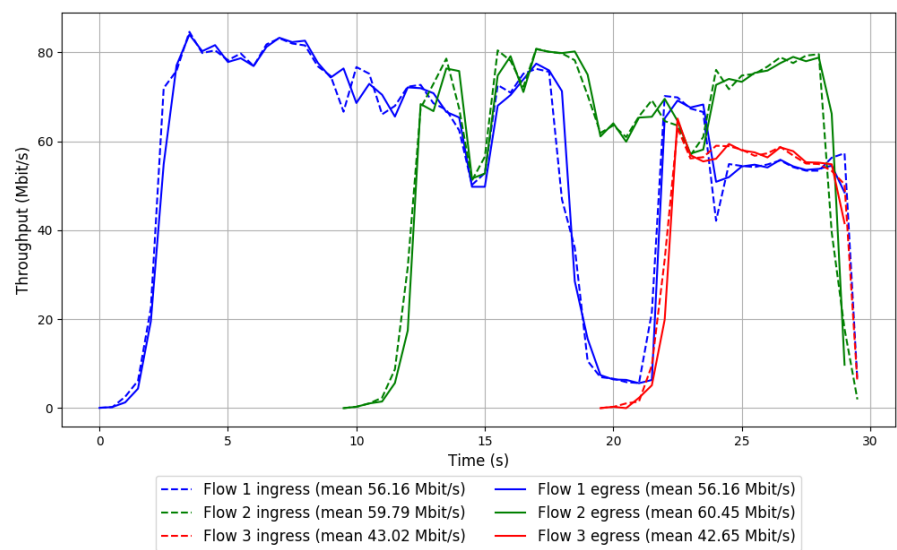
-- Flow 3:

Average throughput: 42.65 Mbit/s

95th percentile per-packet one-way delay: 162.967 ms

Loss rate: 3.61%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-01 03:54:49

End at: 2018-02-01 03:55:19

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 122.67 Mbit/s

95th percentile per-packet one-way delay: 163.235 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 62.80 Mbit/s

95th percentile per-packet one-way delay: 136.686 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 61.81 Mbit/s

95th percentile per-packet one-way delay: 163.304 ms

Loss rate: 0.16%

-- Flow 3:

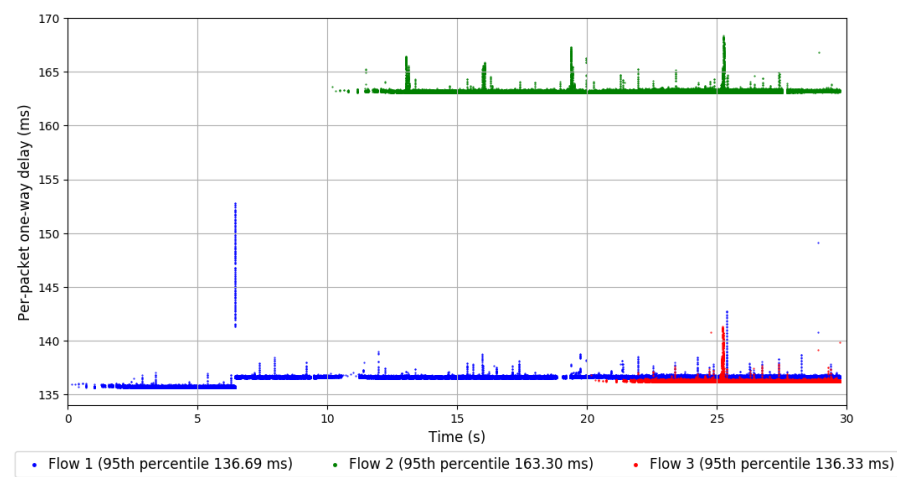
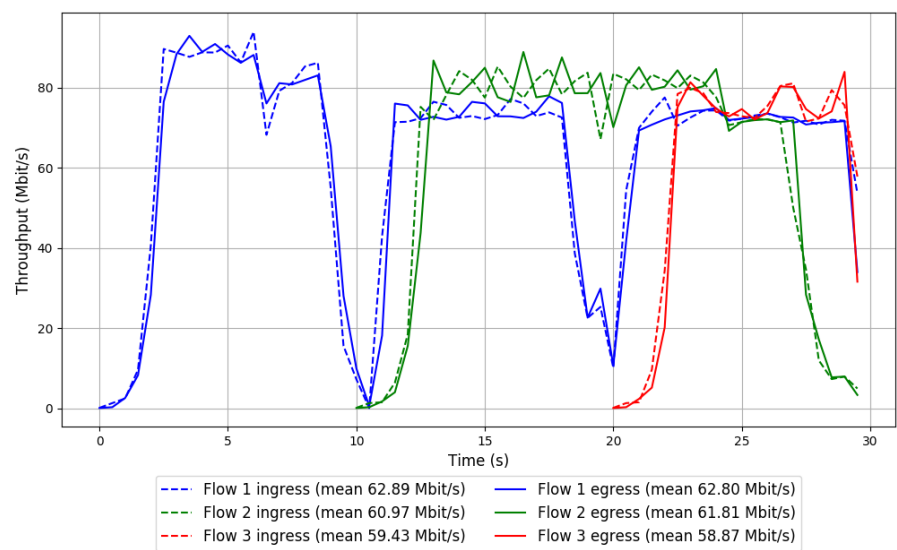
Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 136.327 ms

Loss rate: 3.66%



Run 9: Report of QUIC Cubic — Data Link

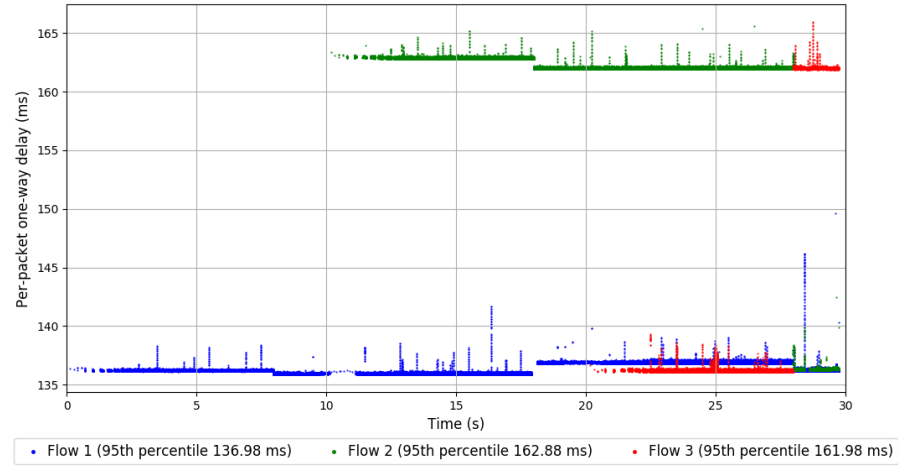
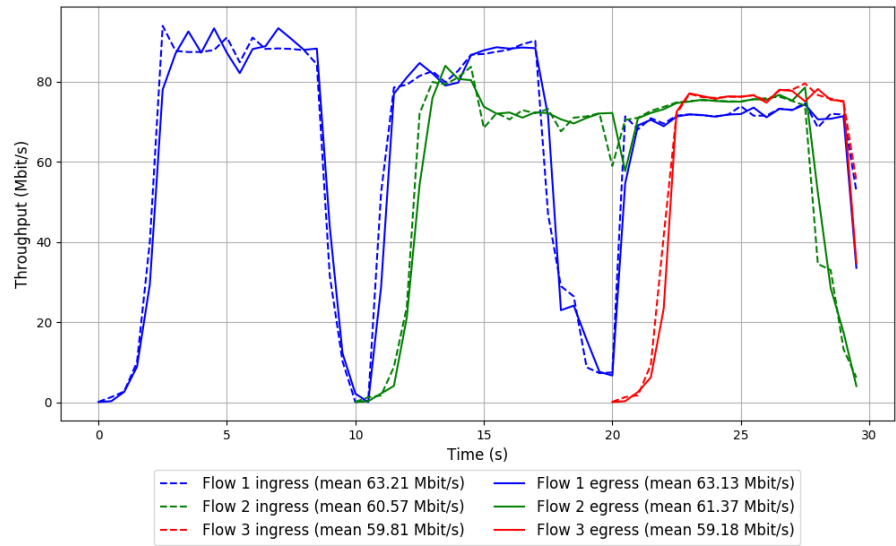


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-01 04:13:47
End at: 2018-02-01 04:14:17

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 122.79 Mbit/s
95th percentile per-packet one-way delay: 162.836 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 63.13 Mbit/s
95th percentile per-packet one-way delay: 136.977 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 162.884 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 59.18 Mbit/s
95th percentile per-packet one-way delay: 161.976 ms
Loss rate: 3.81%
```

# Run 10: Report of QUIC Cubic — Data Link

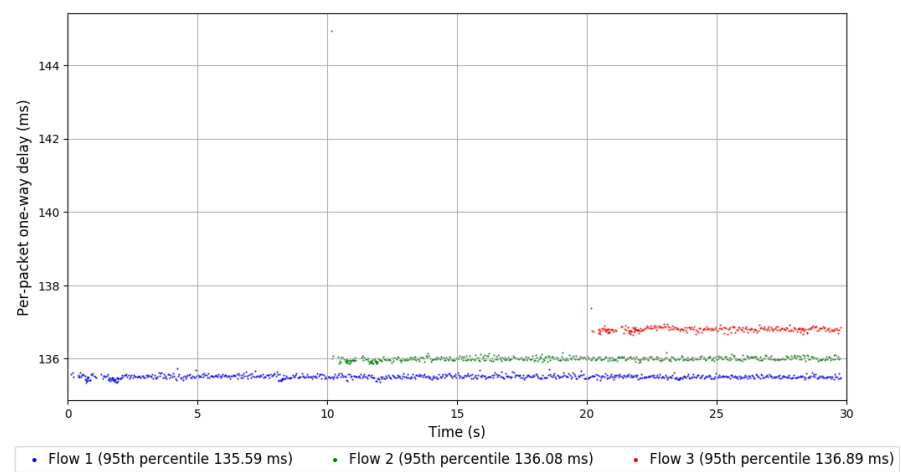
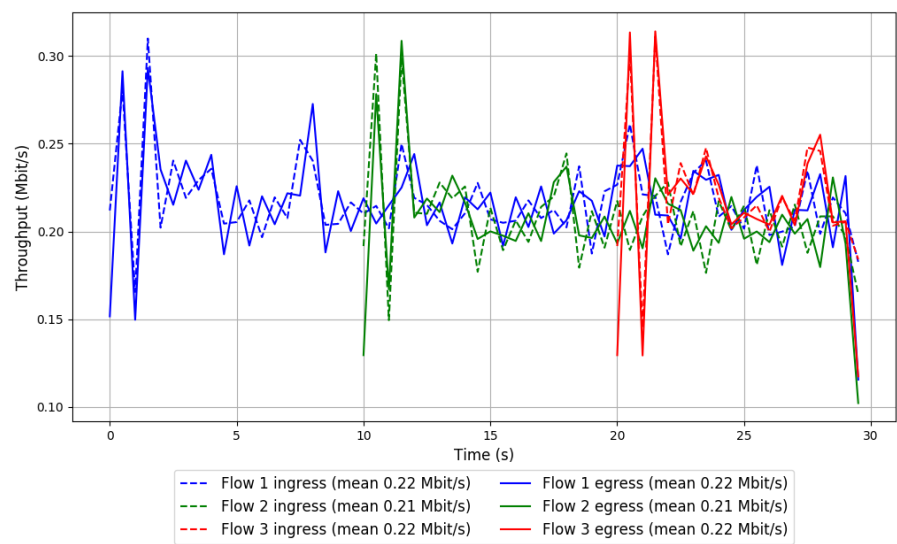


```
Run 1: Statistics of SCReAM

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

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.831 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.588 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.081 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.889 ms
Loss rate: 2.64%
```

Run 1: Report of SReAM — Data Link

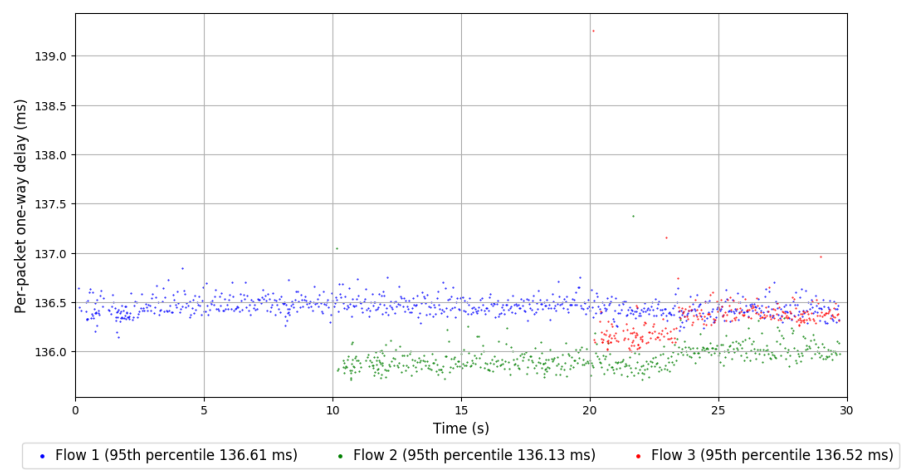
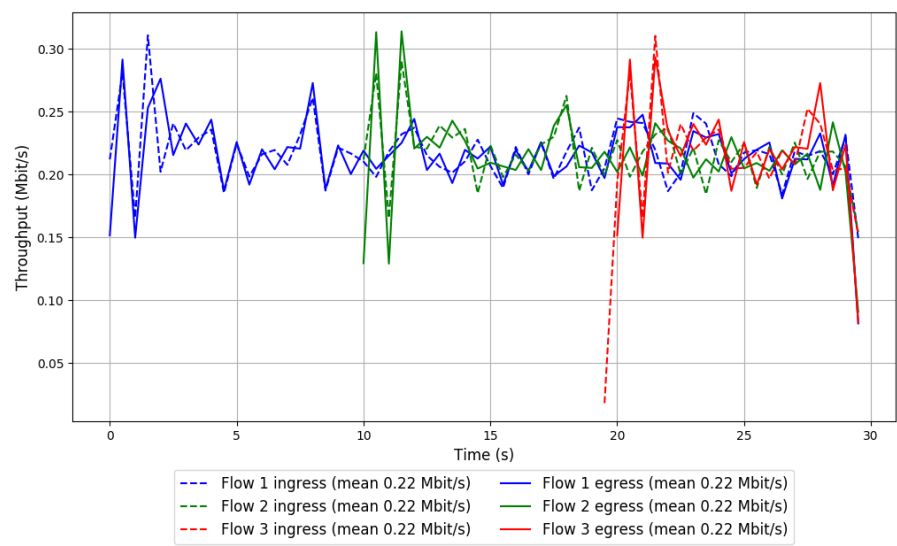


```
Run 2: Statistics of SReAM

Start at: 2018-02-01 01:43:42
End at: 2018-02-01 01:44:12

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.577 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.611 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.128 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.524 ms
Loss rate: 2.69%
```

Run 2: Report of SReAM — Data Link



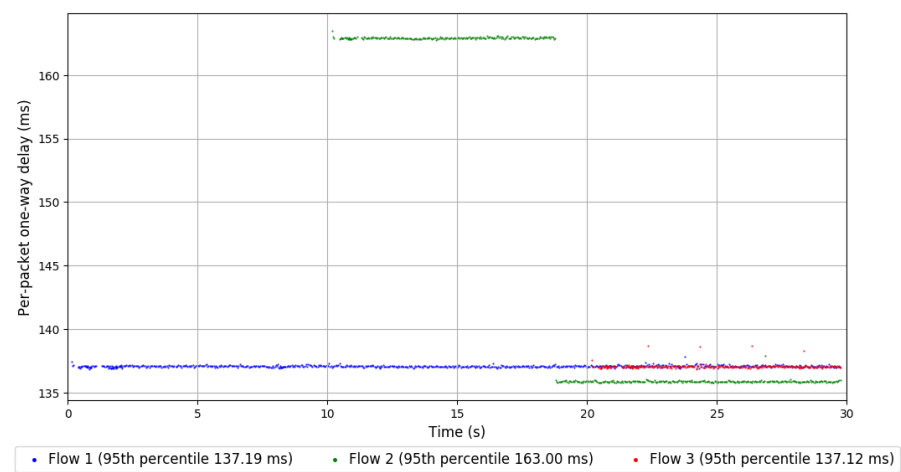
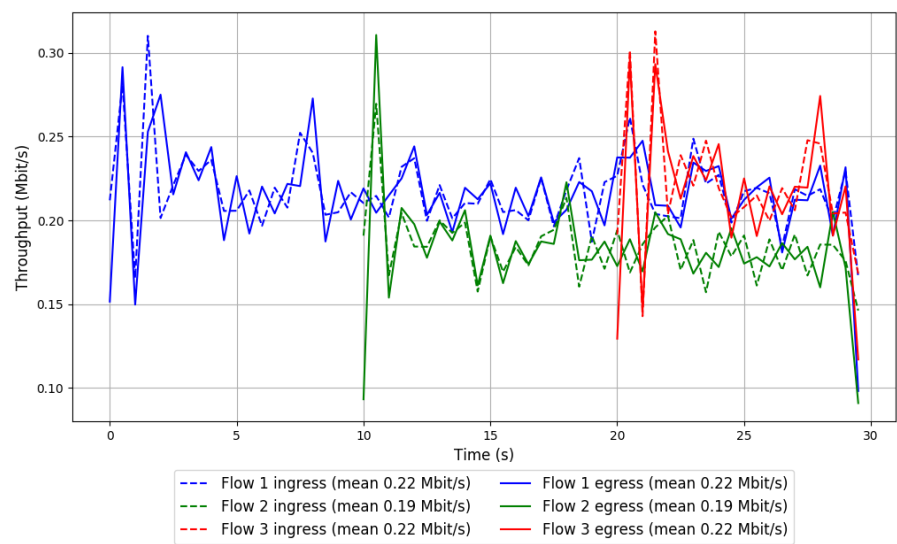
```
Run 3: Statistics of SReAM

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

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 162.946 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.188 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 162.998 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.121 ms
Loss rate: 2.29%
```



Run 3: Report of SReAM — Data Link

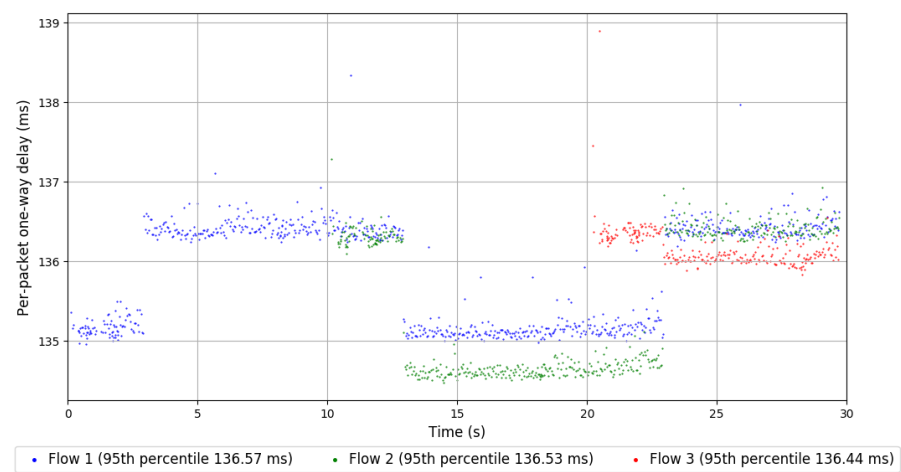
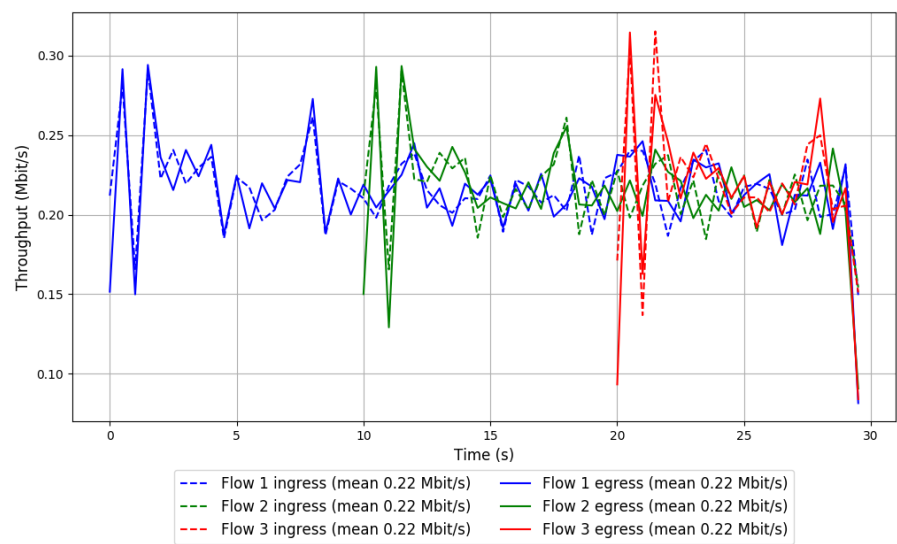


```
Run 4: Statistics of SCReAM

Start at: 2018-02-01 02:20:22
End at: 2018-02-01 02:20:52

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.550 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.575 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.534 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.442 ms
Loss rate: 2.73%
```

Run 4: Report of SReAM — Data Link

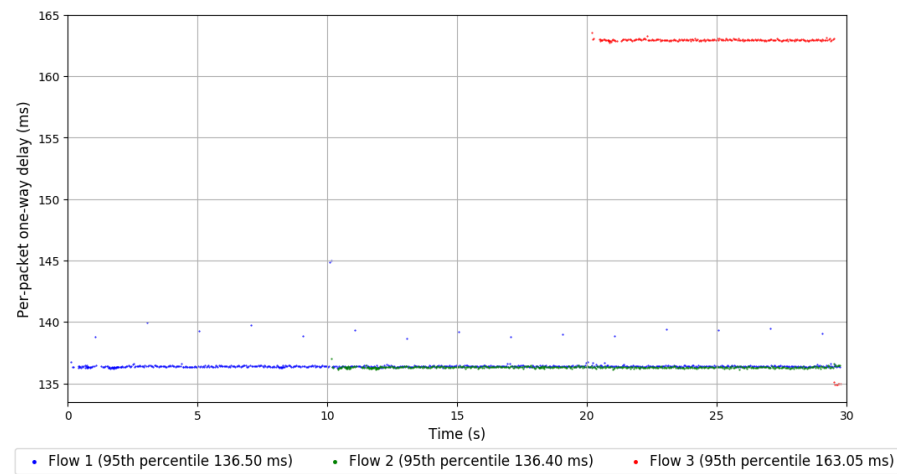
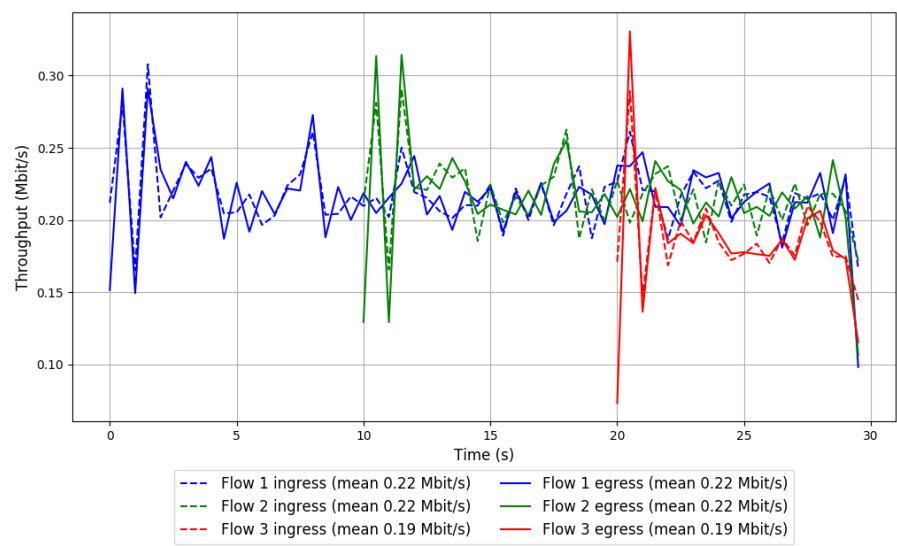


```
Run 5: Statistics of SReAM

Start at: 2018-02-01 02:38:36
End at: 2018-02-01 02:39:06

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 162.981 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.505 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.399 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.053 ms
Loss rate: 2.33%
```

Run 5: Report of SReAM — Data Link

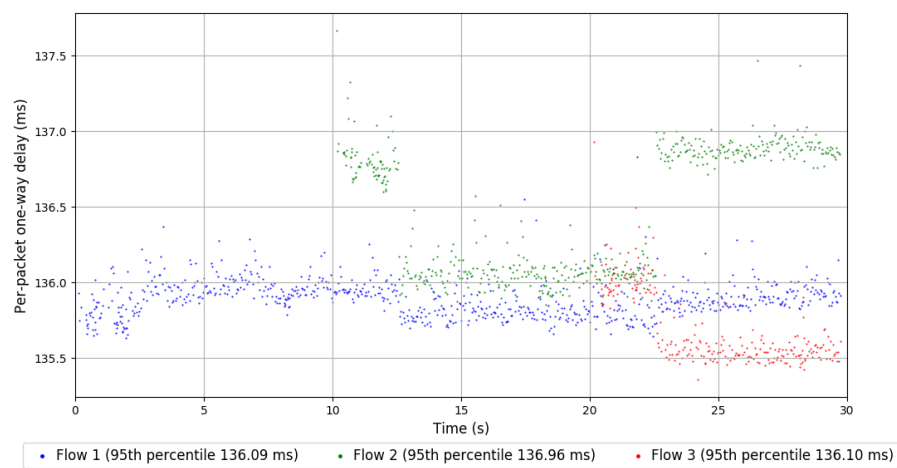
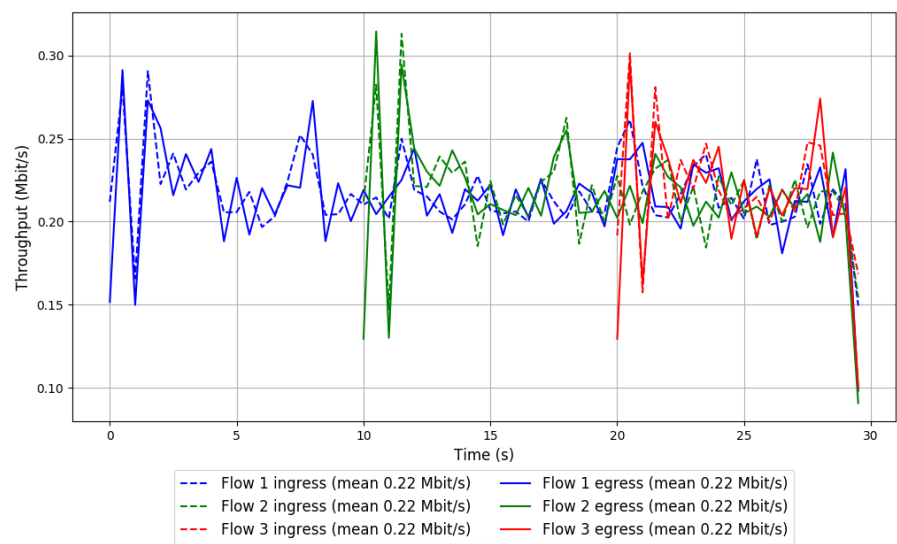


```
Run 6: Statistics of SCReAM

Start at: 2018-02-01 02:56:33
End at: 2018-02-01 02:57:03

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.898 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.094 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.963 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.102 ms
Loss rate: 2.70%
```

Run 6: Report of SCSReAM — Data Link



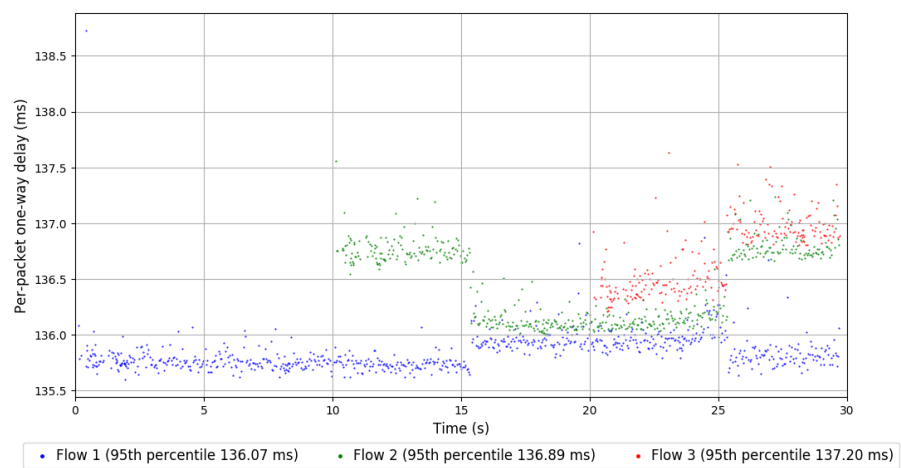
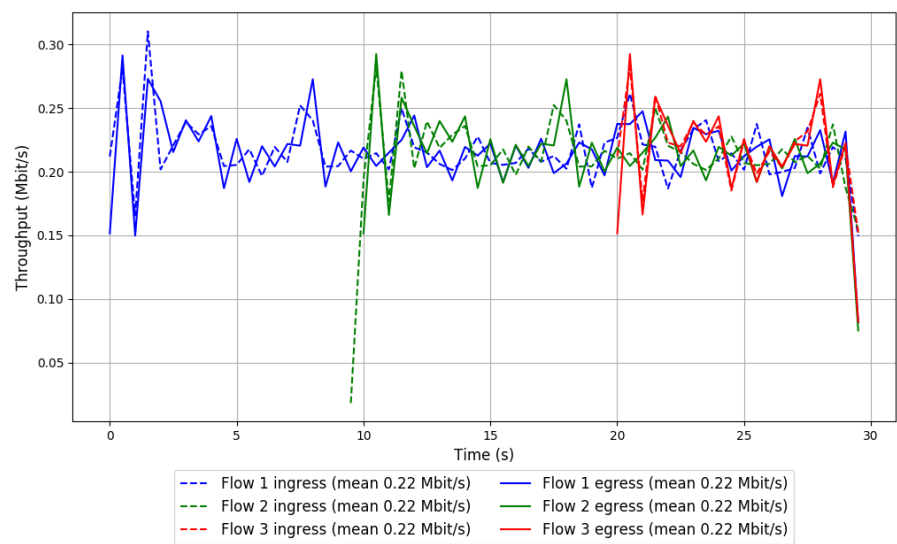
```
Run 7: Statistics of SReAM

Start at: 2018-02-01 03:14:30
End at: 2018-02-01 03:15:00

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.952 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.067 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.889 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.197 ms
Loss rate: 2.69%
```



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-01 03:32:48

End at: 2018-02-01 03:33:18

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.563 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 134.753 ms

Loss rate: 1.41%

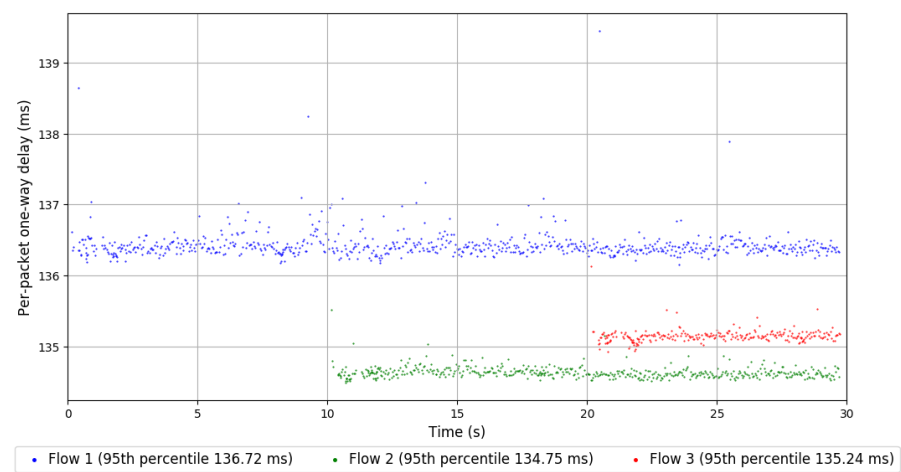
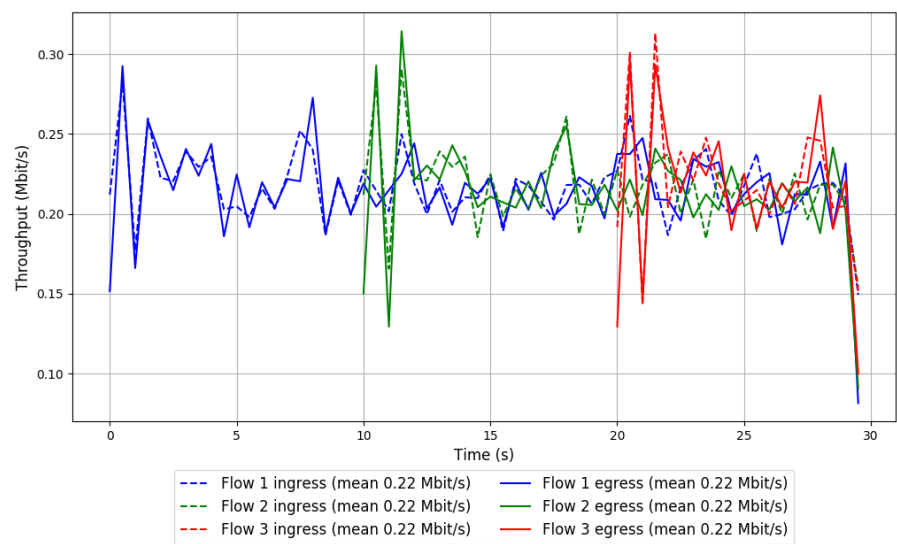
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.236 ms

Loss rate: 2.31%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-02-01 03:51:18

End at: 2018-02-01 03:51:48

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 162.321 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.991 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 162.360 ms

Loss rate: 1.04%

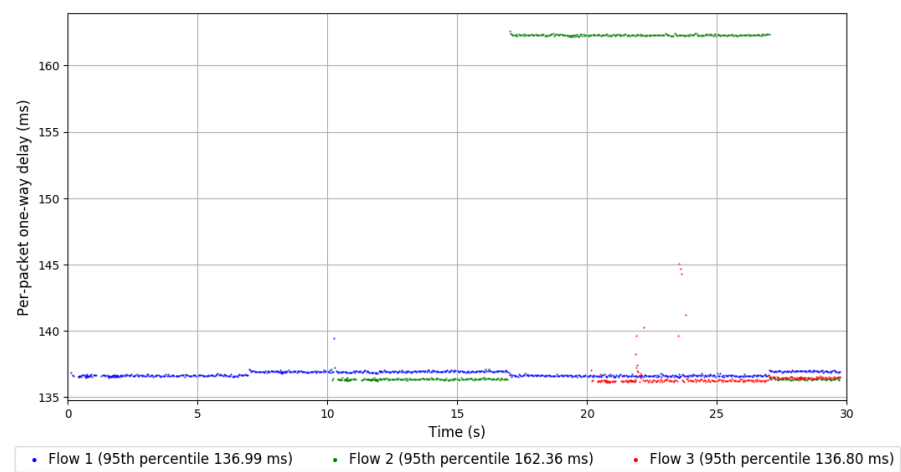
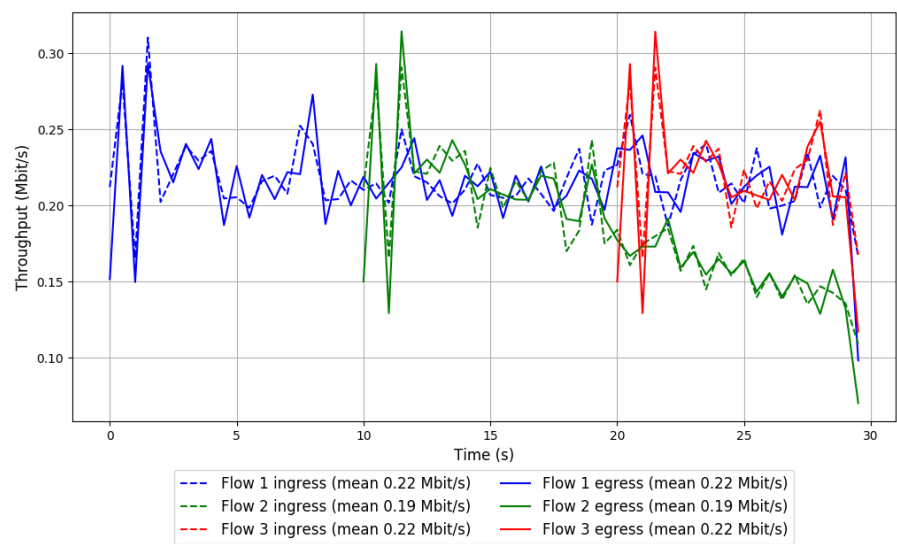
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.798 ms

Loss rate: 2.63%

Run 9: Report of SCRaM — Data Link

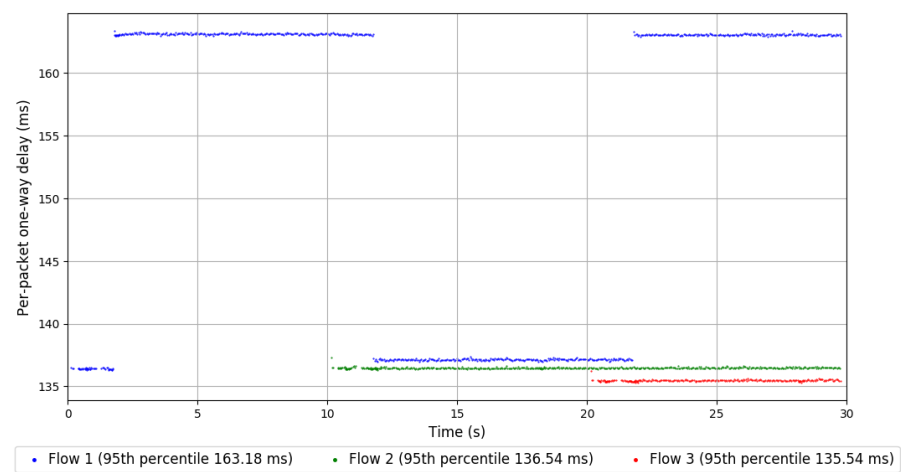
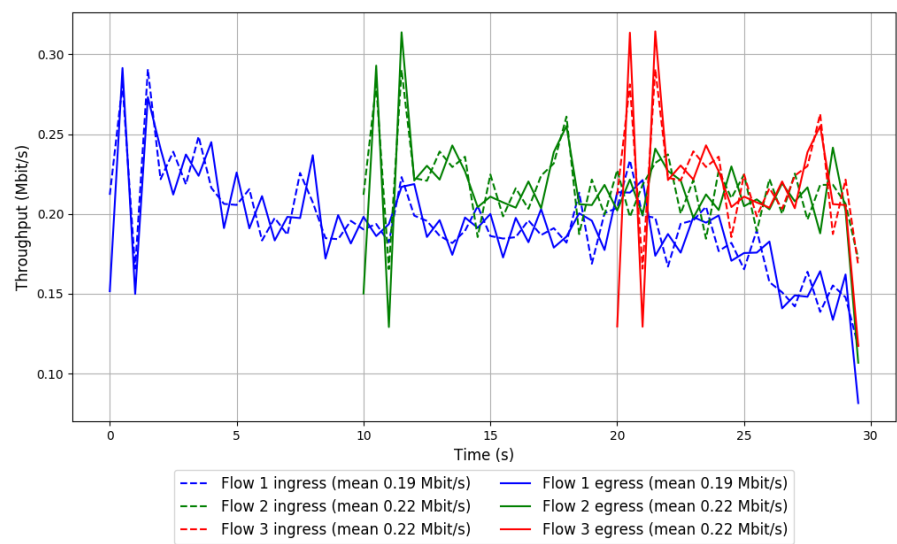


```
Run 10: Statistics of SReAM

Start at: 2018-02-01 04:10:13
End at: 2018-02-01 04:10:43

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 163.149 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 163.178 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.539 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.545 ms
Loss rate: 2.63%
```

Run 10: Report of SCRaM — Data Link



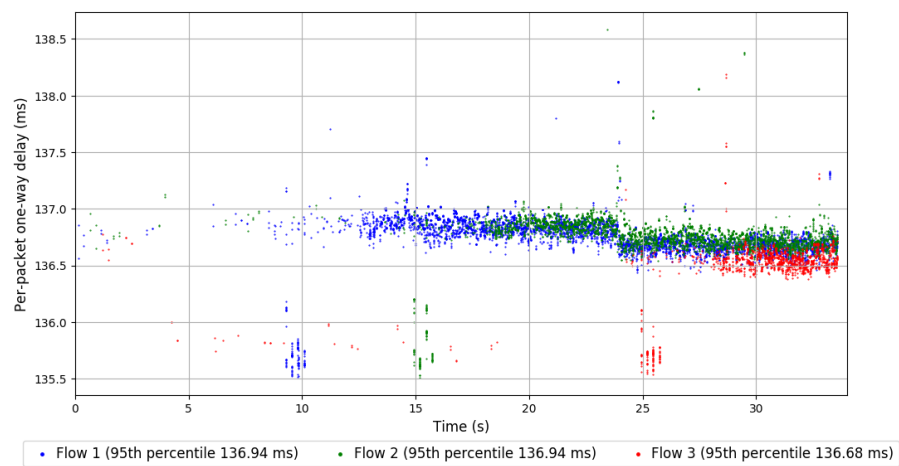
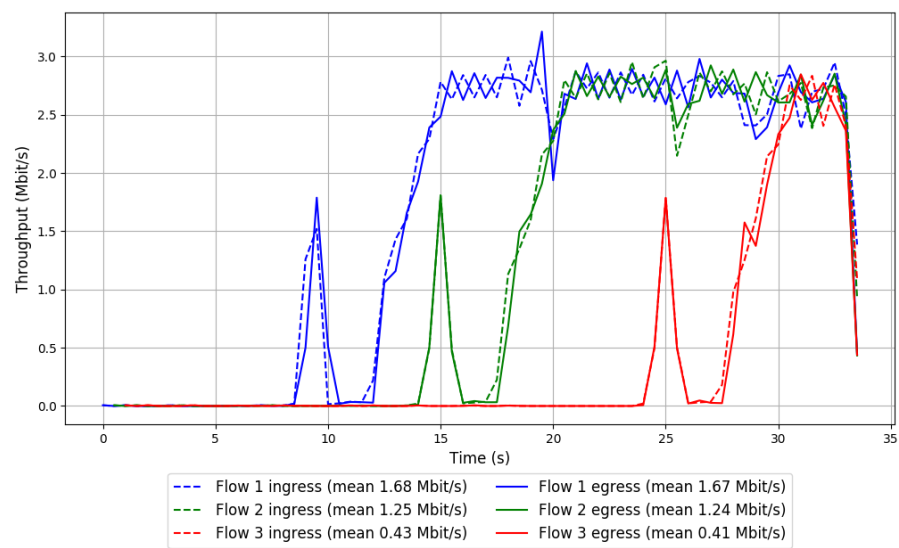
```
Run 1: Statistics of WebRTC media

Start at: 2018-02-01 01:32:05
End at: 2018-02-01 01:32:35

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 136.937 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 136.944 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 136.937 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 136.683 ms
Loss rate: 4.88%
```



Run 1: Report of WebRTC media — Data Link

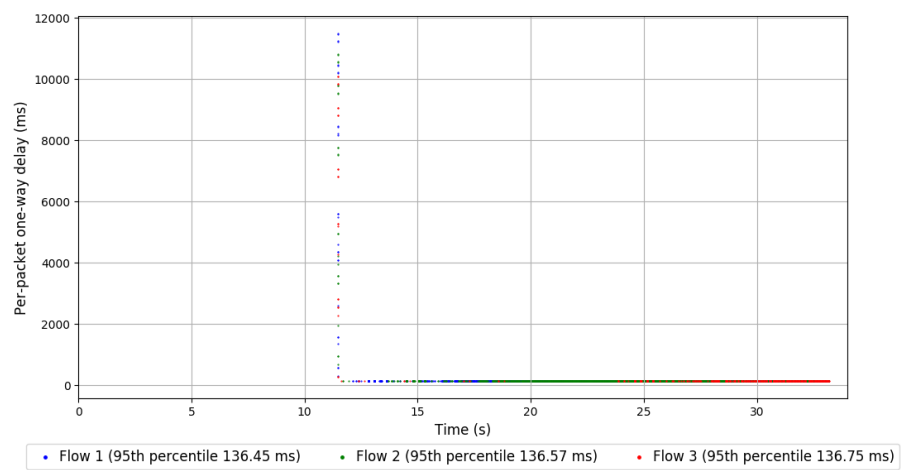
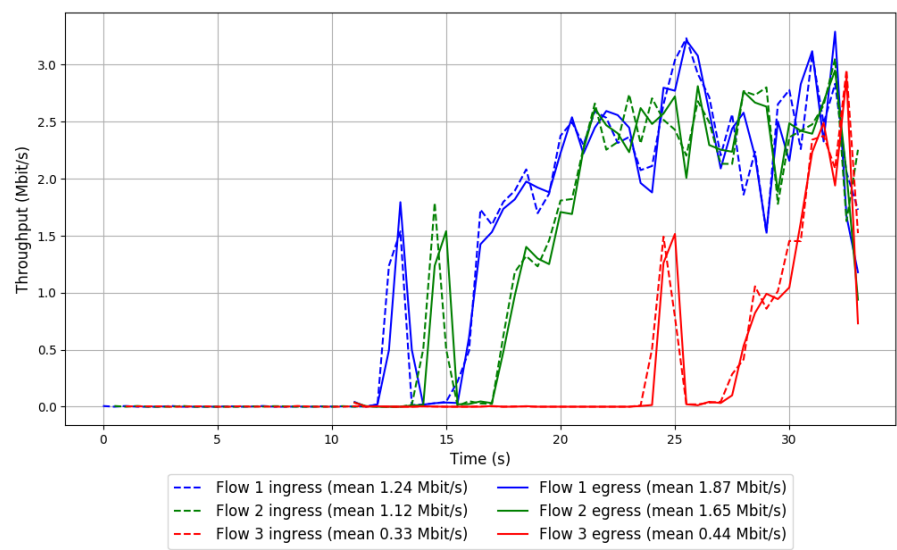


Run 2: Statistics of WebRTC media

Start at: 2018-02-01 01:50:51

End at: 2018-02-01 01:51:21

Run 2: Report of WebRTC media — Data Link

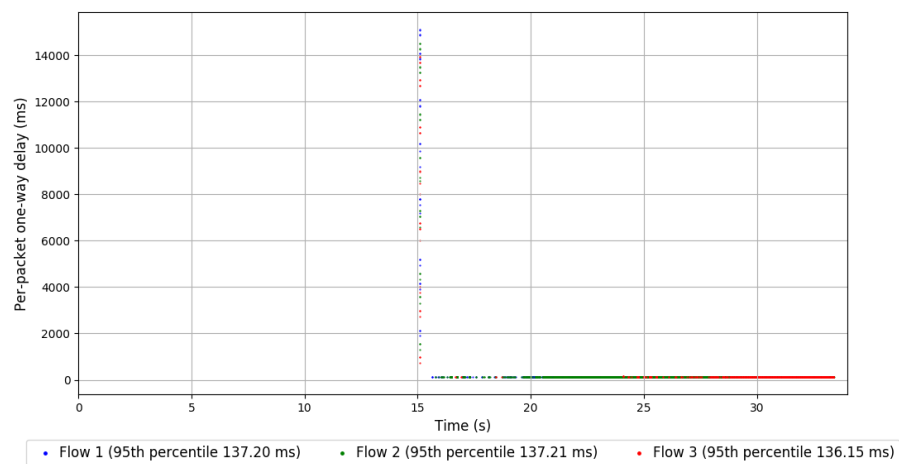
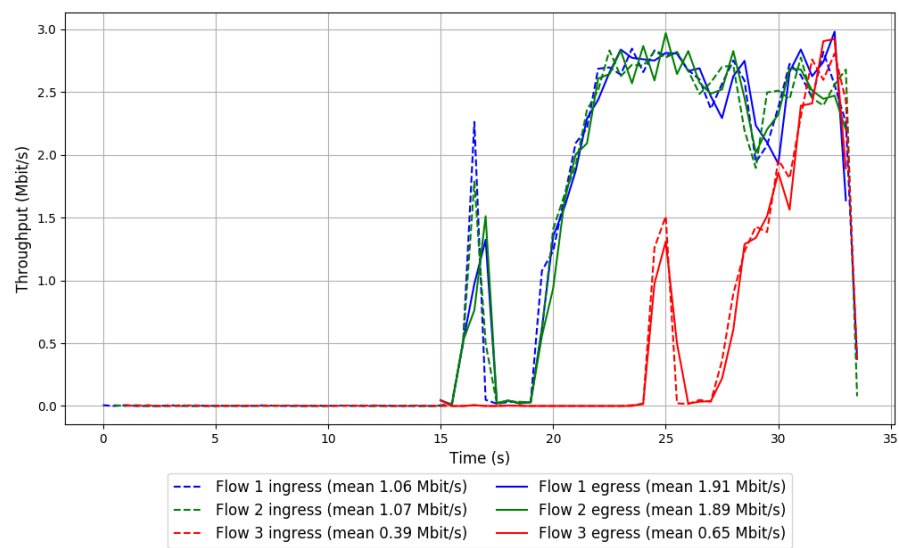


Run 3: Statistics of WebRTC media

Start at: 2018-02-01 02:09:19

End at: 2018-02-01 02:09:49

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

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

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 136.328 ms

Loss rate: 2.27%

-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 136.022 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 136.369 ms

Loss rate: 2.58%

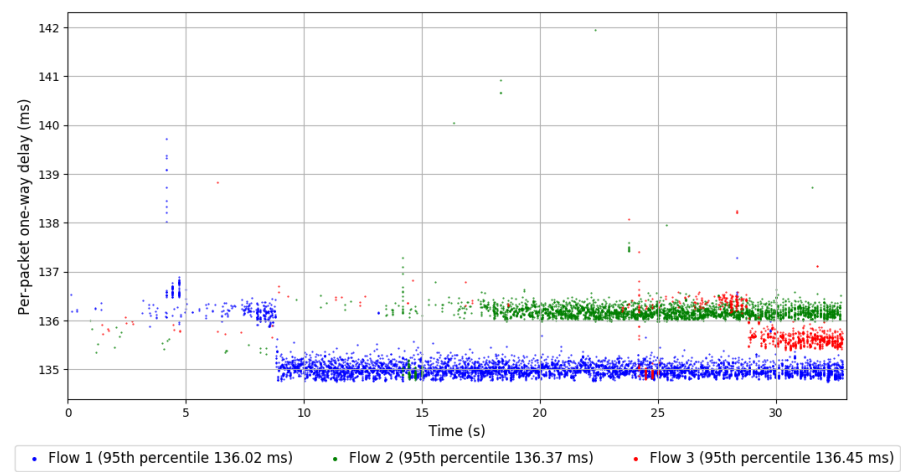
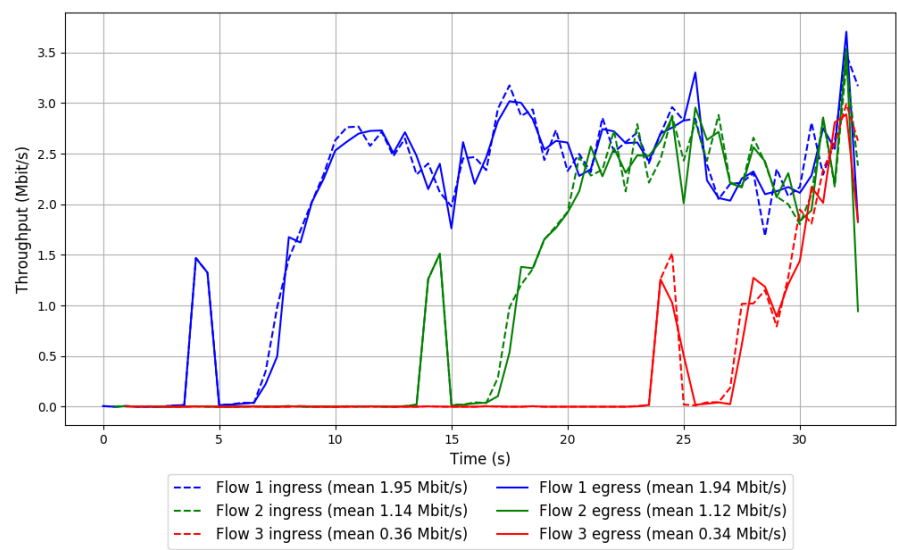
-- Flow 3:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.450 ms

Loss rate: 6.29%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-01 02:45:31

End at: 2018-02-01 02:46:01

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 162.707 ms

Loss rate: 2.74%

-- Flow 1:

Average throughput: 1.06 Mbit/s

95th percentile per-packet one-way delay: 137.137 ms

Loss rate: 2.23%

-- Flow 2:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 162.779 ms

Loss rate: 2.24%

-- Flow 3:

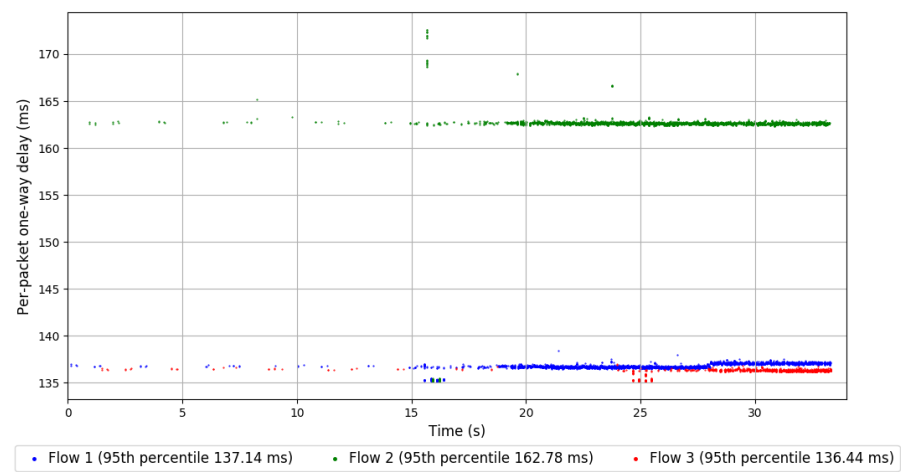
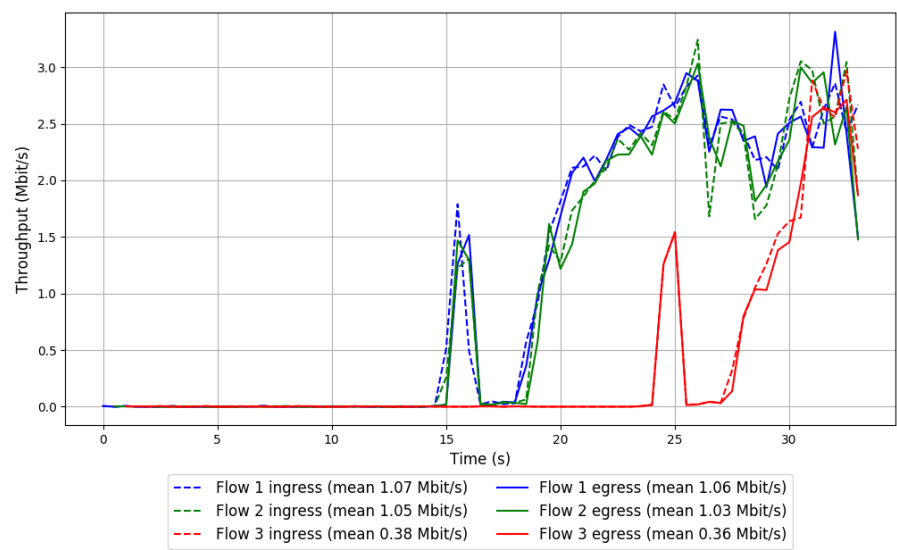
Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.440 ms

Loss rate: 5.64%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-01 03:03:29

End at: 2018-02-01 03:03:59

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 162.549 ms

Loss rate: 4.69%

-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 162.558 ms

Loss rate: 4.57%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 162.539 ms

Loss rate: 3.77%

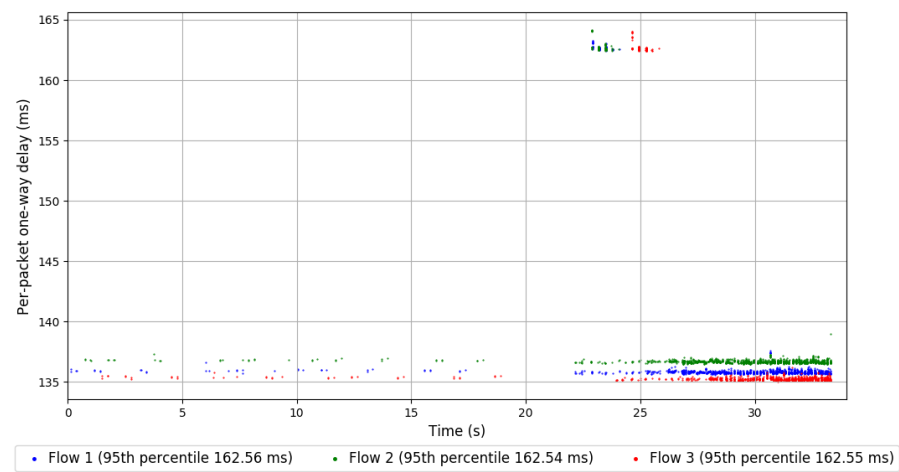
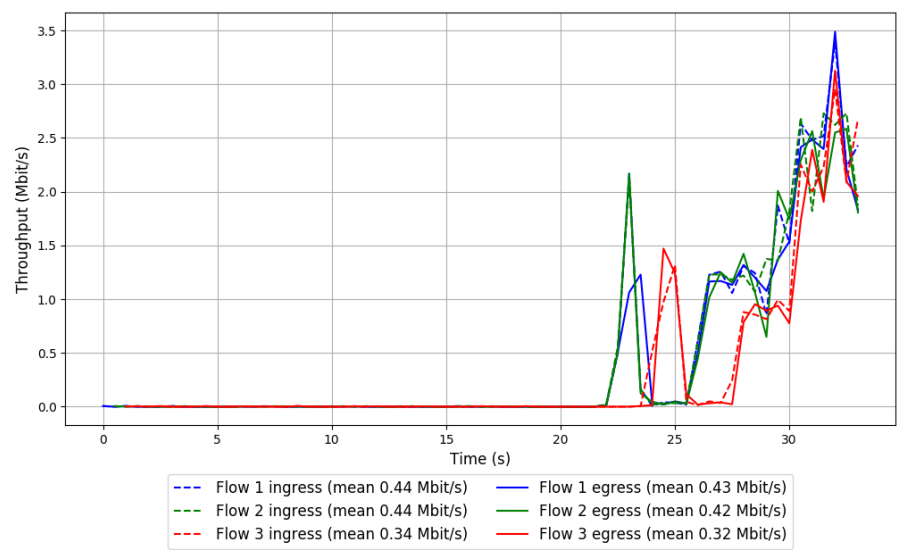
-- Flow 3:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 162.550 ms

Loss rate: 6.04%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-01 03:21:41

End at: 2018-02-01 03:22:11

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.28 Mbit/s

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

Loss rate: 2.04%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 162.720 ms

Loss rate: 1.33%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 163.468 ms

Loss rate: 2.23%

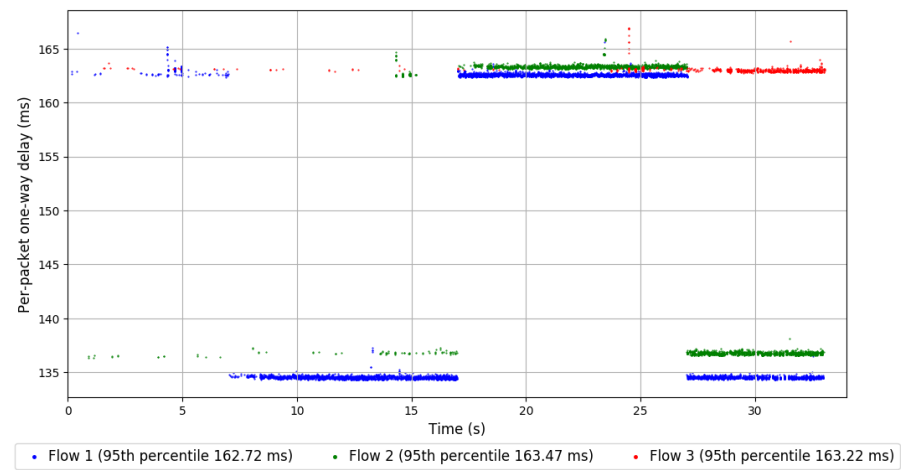
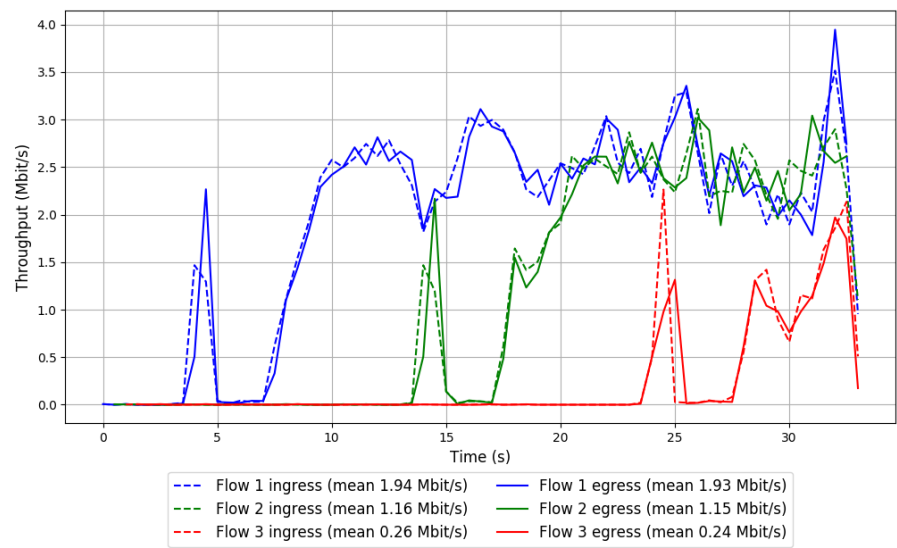
-- Flow 3:

Average throughput: 0.24 Mbit/s

95th percentile per-packet one-way delay: 163.220 ms

Loss rate: 6.77%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-01 03:39:58

End at: 2018-02-01 03:40:28

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 162.186 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 162.218 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 1.15 Mbit/s

95th percentile per-packet one-way delay: 136.531 ms

Loss rate: 1.84%

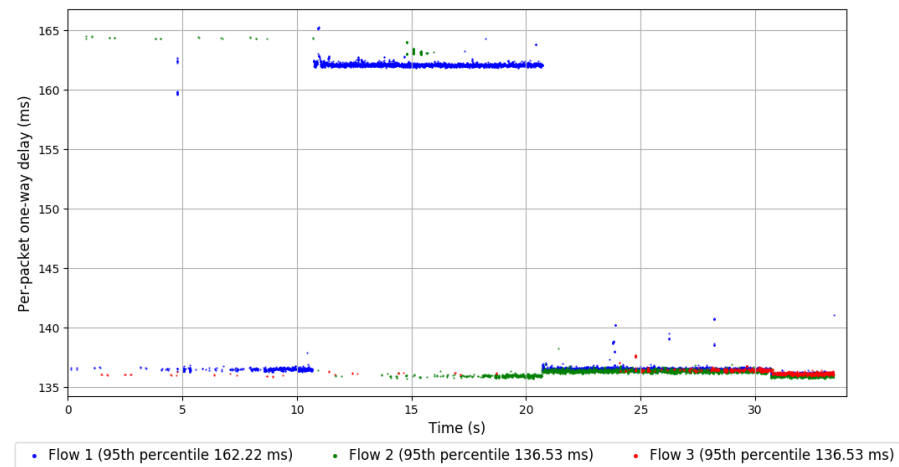
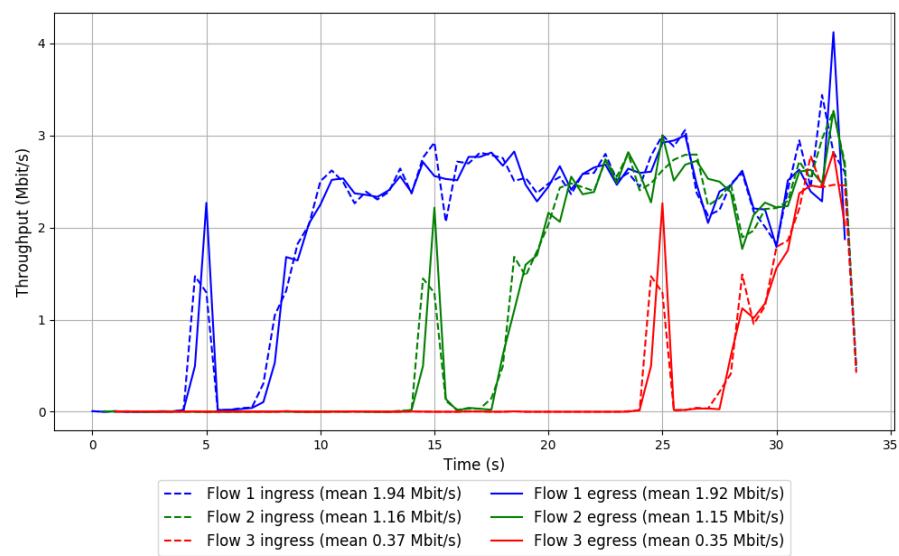
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.530 ms

Loss rate: 5.38%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

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

End at: 2018-02-01 03:58:58

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.39 Mbit/s

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

Loss rate: 1.96%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 136.009 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 136.536 ms

Loss rate: 1.78%

-- Flow 3:

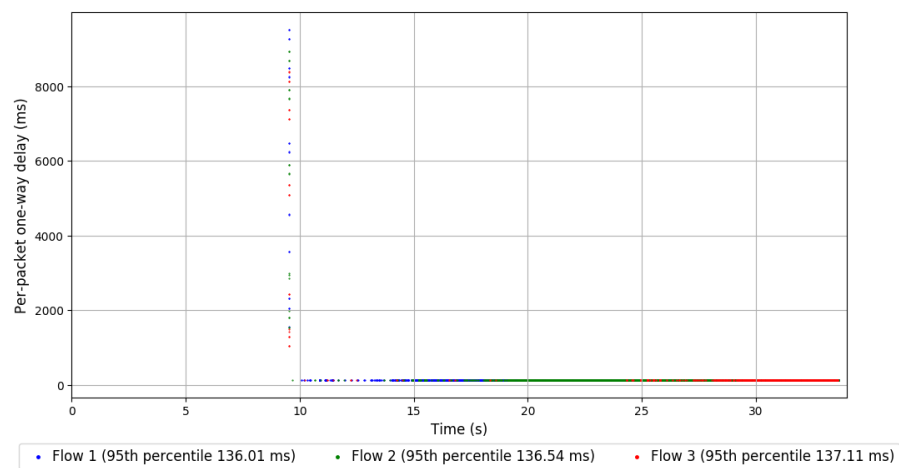
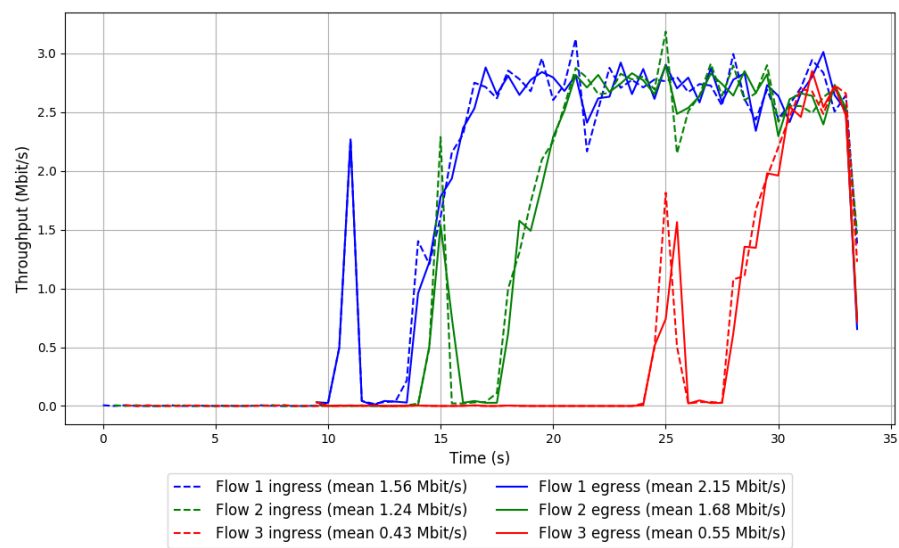
Average throughput: 0.55 Mbit/s

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

Loss rate: 4.92%



Run 9: Report of WebRTC media — Data Link

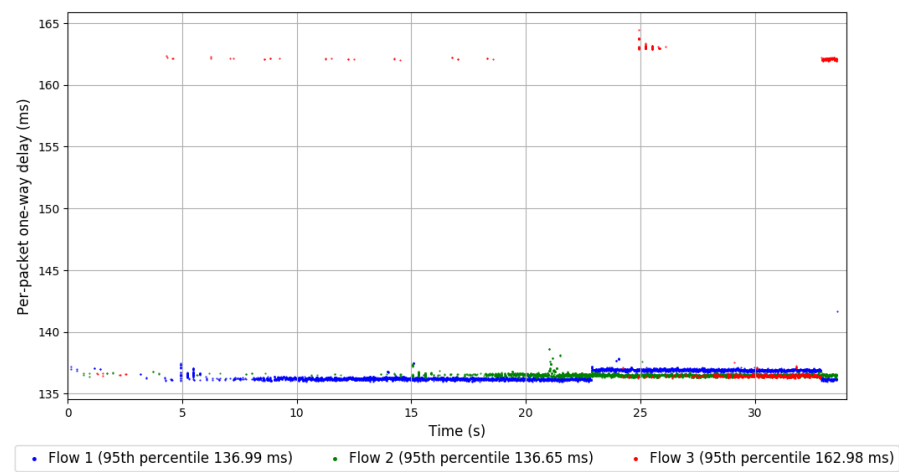
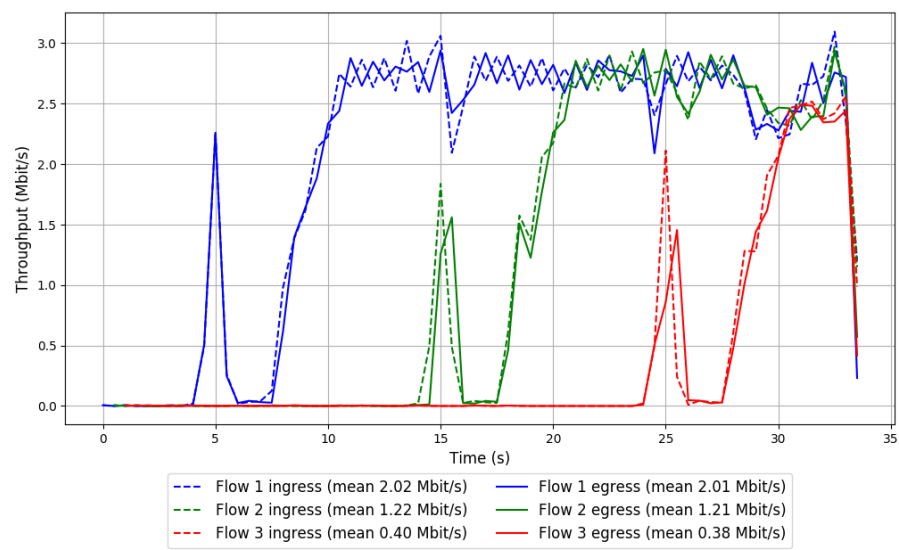


```
Run 10: Statistics of WebRTC media

Start at: 2018-02-01 04:17:26
End at: 2018-02-01 04:17:56

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 136.999 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 136.986 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 136.646 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 162.981 ms
Loss rate: 5.62%
```

Run 10: Report of WebRTC media — Data Link

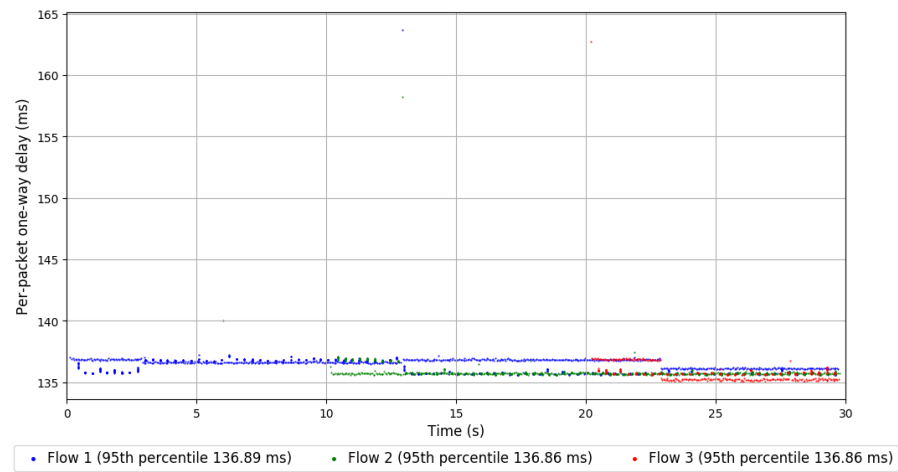
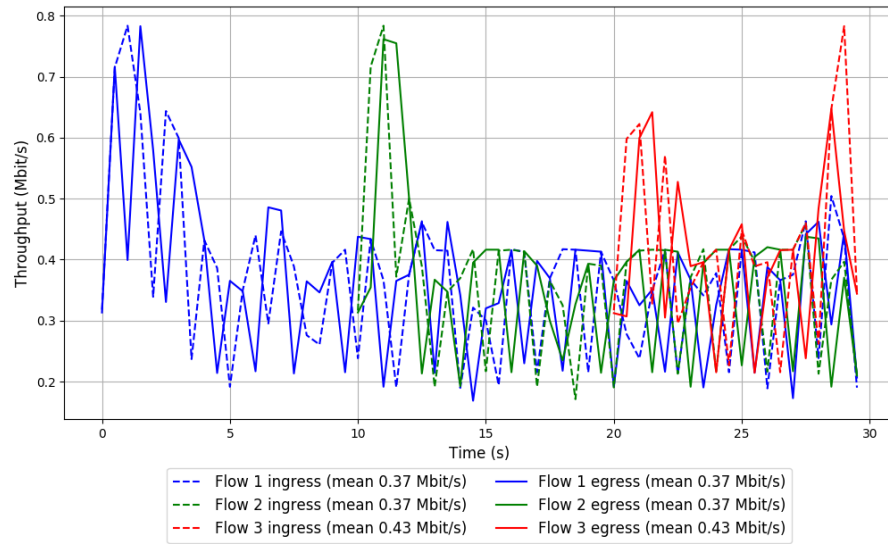


```
Run 1: Statistics of Sprout

Start at: 2018-02-01 01:28:52
End at: 2018-02-01 01:29:22

# Below is generated by plot.py at 2018-02-01 08:01:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 136.880 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.893 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 136.864 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.862 ms
Loss rate: 4.05%
```

## Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-01 01:47:59

End at: 2018-02-01 01:48:29

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.83 Mbit/s

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

Loss rate: 1.26%

-- Flow 1:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.87%

-- Flow 2:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.083 ms

Loss rate: 1.37%

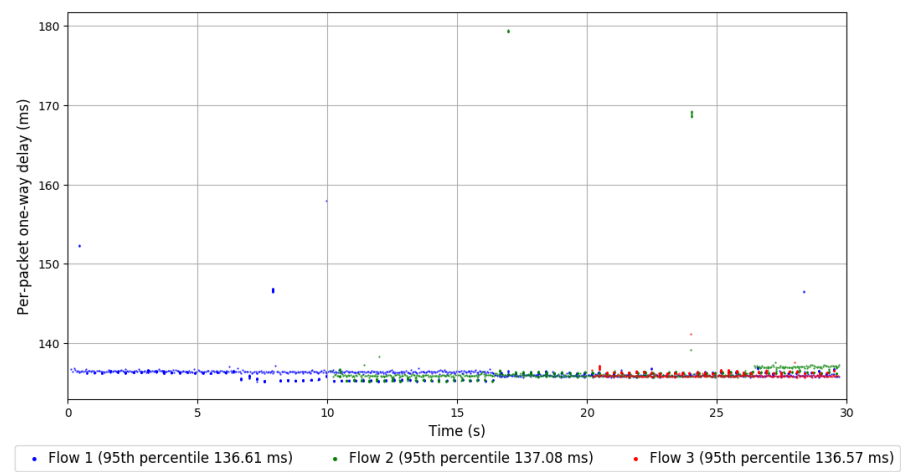
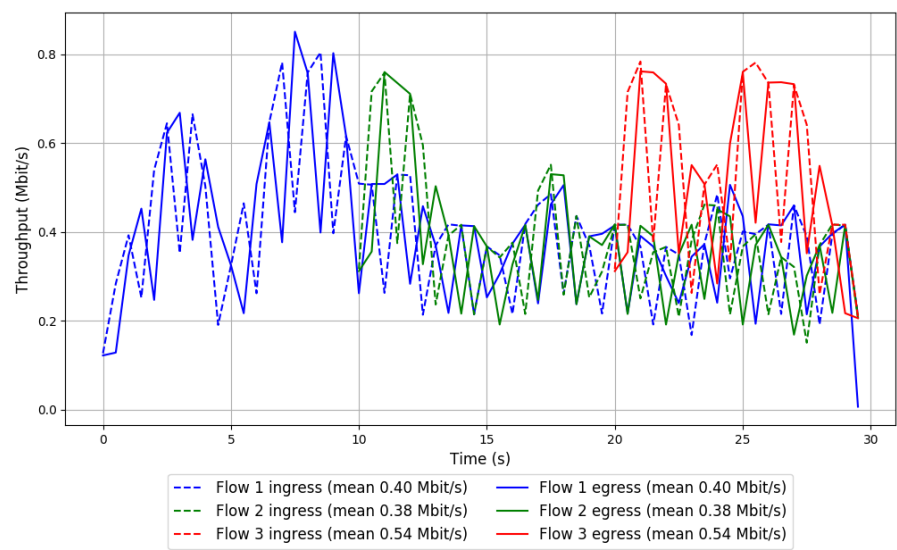
-- Flow 3:

Average throughput: 0.54 Mbit/s

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

Loss rate: 1.97%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

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

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

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.84 Mbit/s

95th percentile per-packet one-way delay: 136.528 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 136.483 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.851 ms

Loss rate: 1.26%

-- Flow 3:

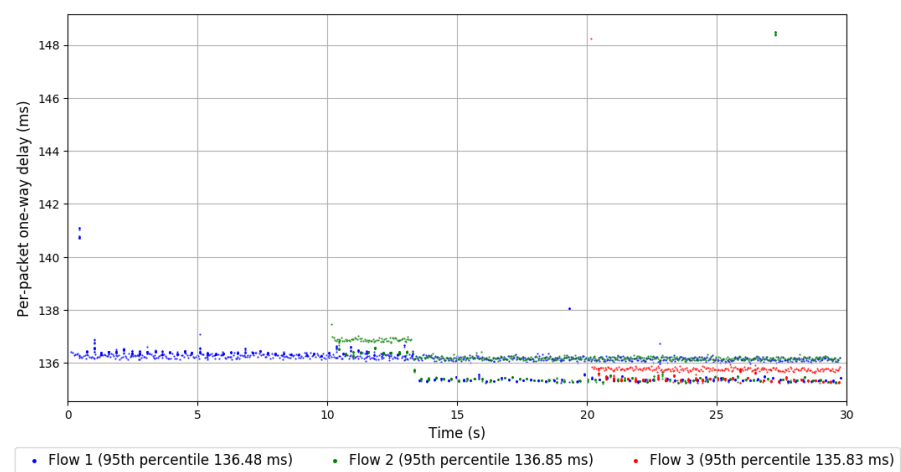
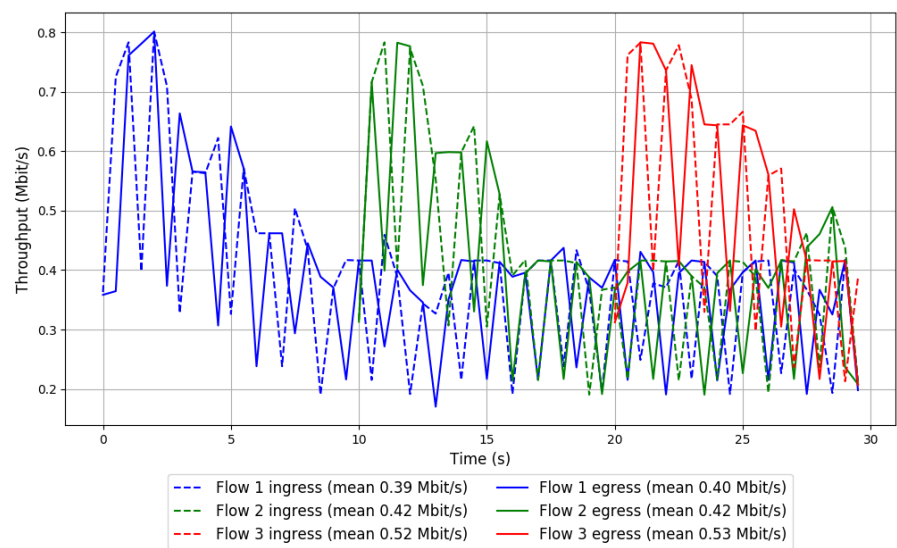
Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 135.829 ms

Loss rate: 1.79%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-01 02:24:41

End at: 2018-02-01 02:25:11

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.77 Mbit/s

95th percentile per-packet one-way delay: 137.184 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 0.38 Mbit/s

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

Loss rate: 0.92%

-- Flow 2:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.895 ms

Loss rate: 1.54%

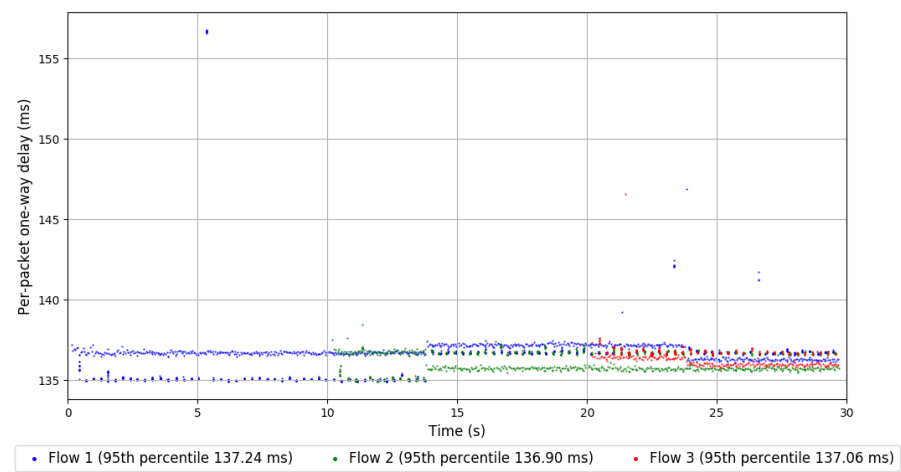
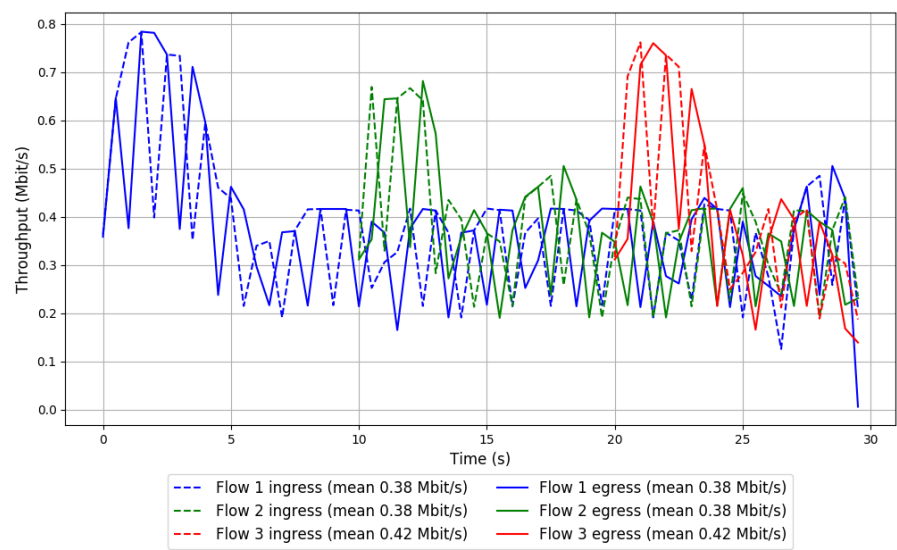
-- Flow 3:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 137.056 ms

Loss rate: 2.27%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-01 02:42:53

End at: 2018-02-01 02:43:23

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 162.785 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.665 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 162.817 ms

Loss rate: 0.65%

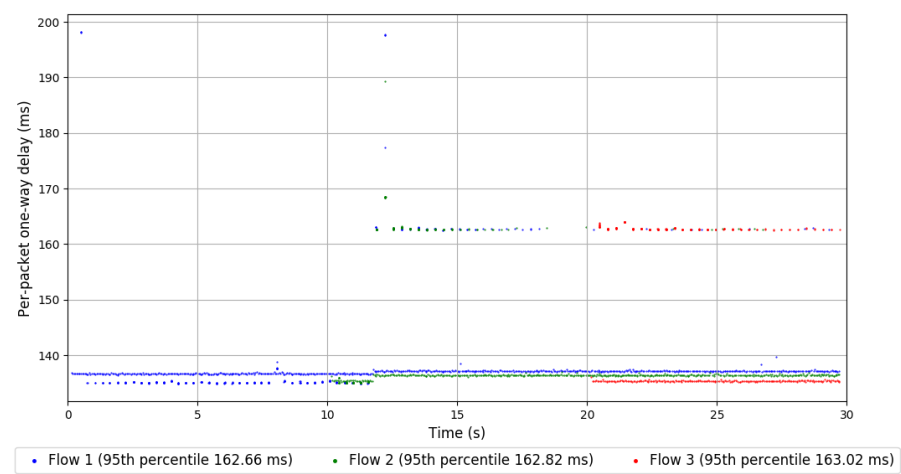
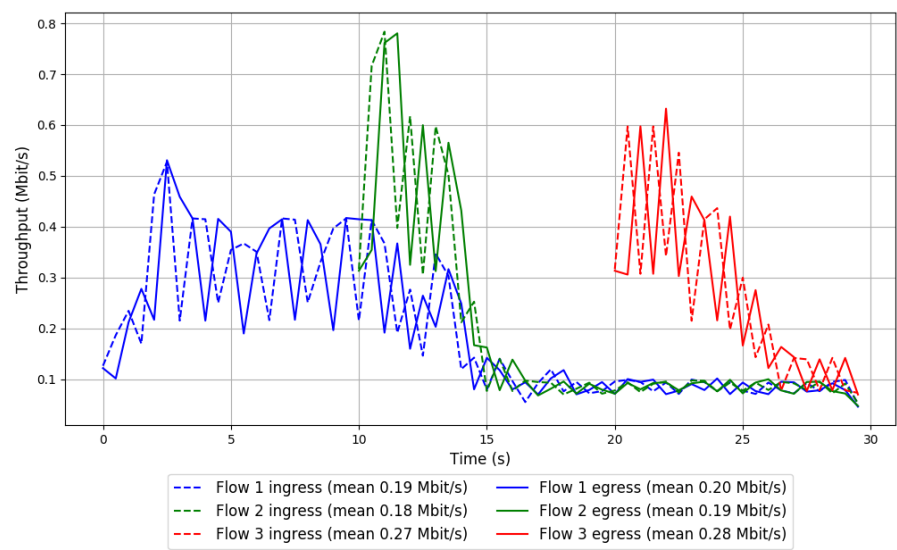
-- Flow 3:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 163.023 ms

Loss rate: 0.15%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-01 03:00:54

End at: 2018-02-01 03:01:24

# Below is generated by plot.py at 2018-02-01 08:01:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.75 Mbit/s

95th percentile per-packet one-way delay: 164.959 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 162.676 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 165.071 ms

Loss rate: 1.30%

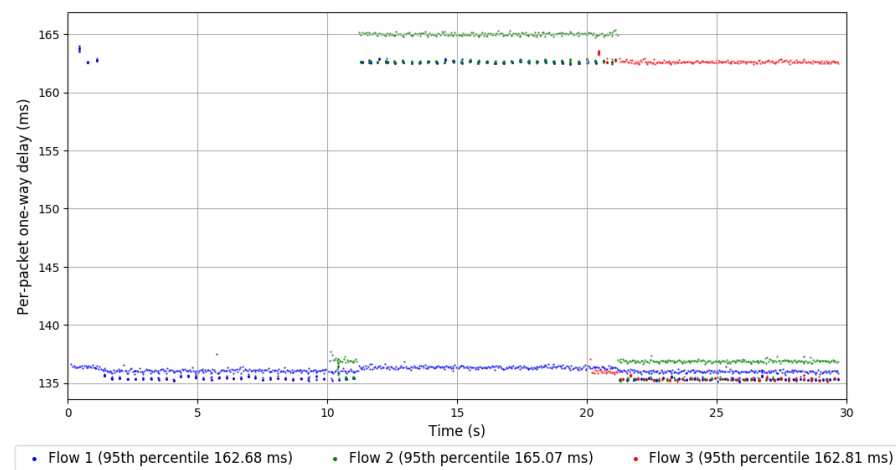
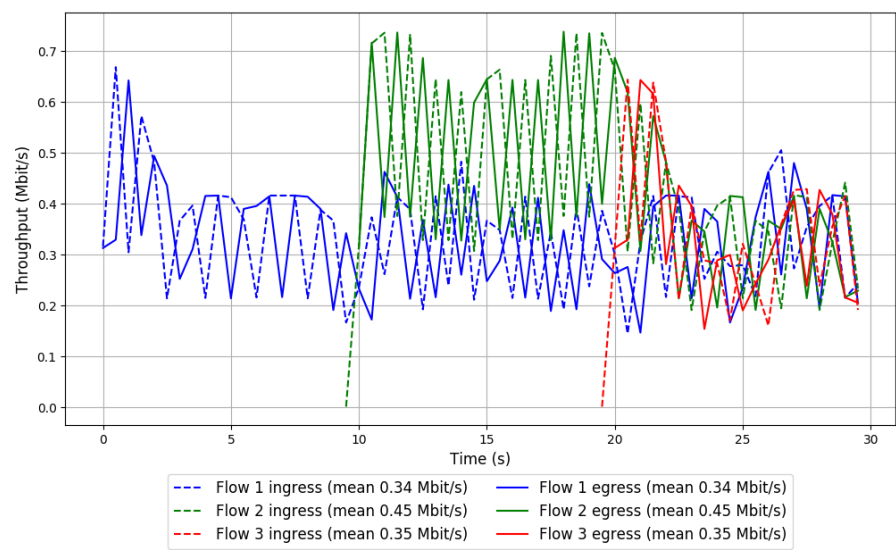
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 162.813 ms

Loss rate: 2.76%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-01 03:18:47

End at: 2018-02-01 03:19:17

# Below is generated by plot.py at 2018-02-01 08:01:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.73 Mbit/s

95th percentile per-packet one-way delay: 163.382 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 163.327 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 163.439 ms

Loss rate: 1.48%

-- Flow 3:

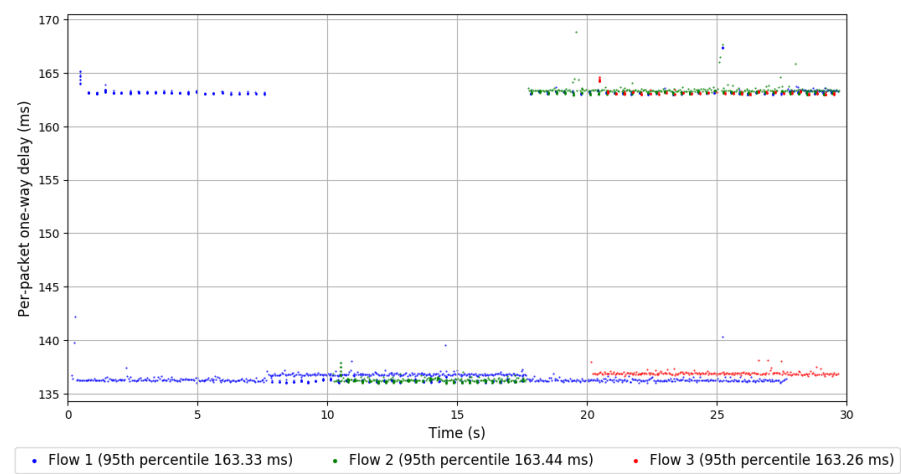
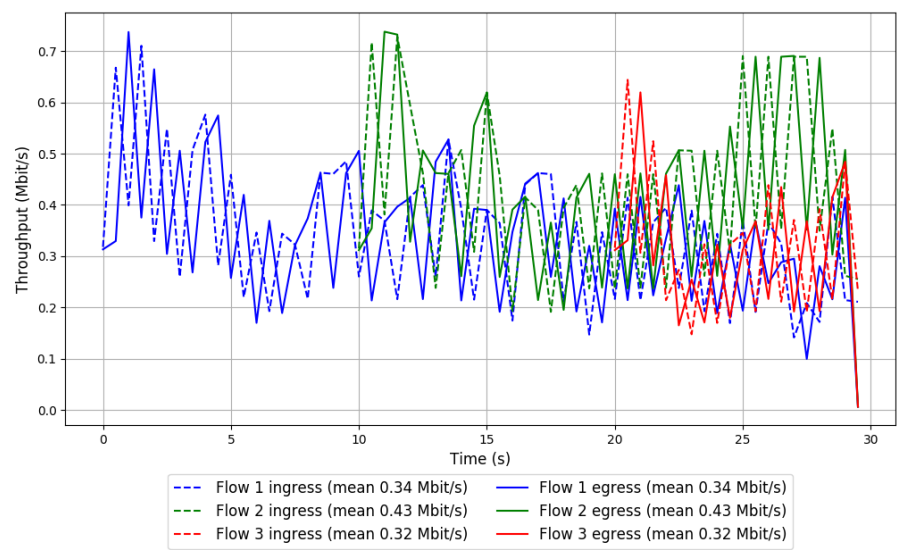
Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 163.263 ms

Loss rate: 3.64%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-01 03:37:07

End at: 2018-02-01 03:37:37

# Below is generated by plot.py at 2018-02-01 08:01:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 164.979 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 165.015 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 163.162 ms

Loss rate: 1.01%

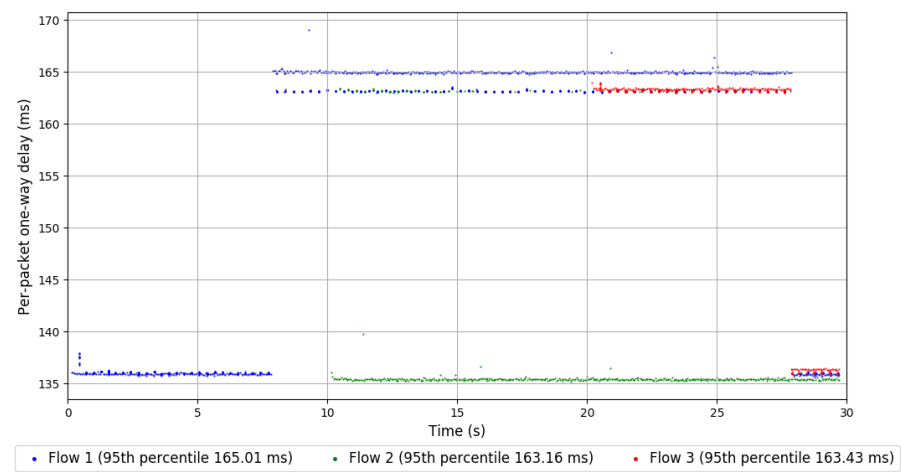
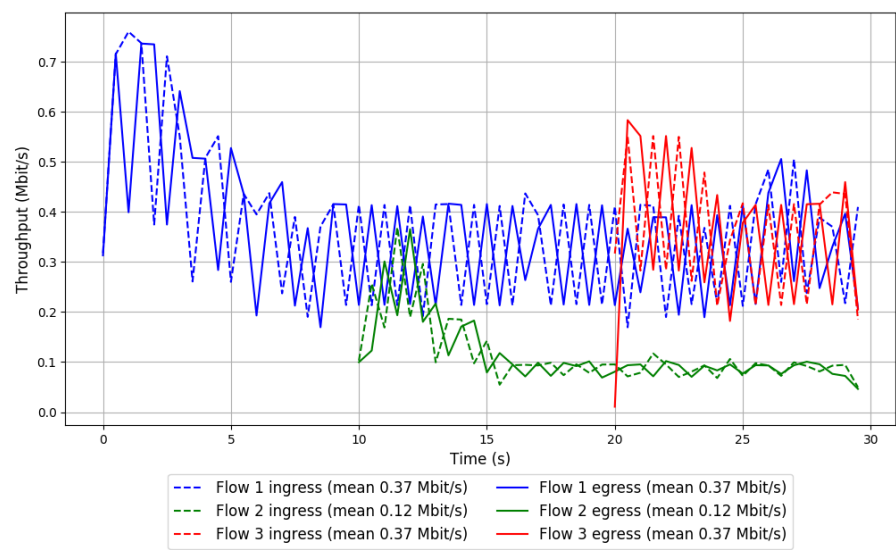
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 163.428 ms

Loss rate: 2.55%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-01 03:55:47

End at: 2018-02-01 03:56:17

# Below is generated by plot.py at 2018-02-01 08:01:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 163.315 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 163.350 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 163.178 ms

Loss rate: 0.81%

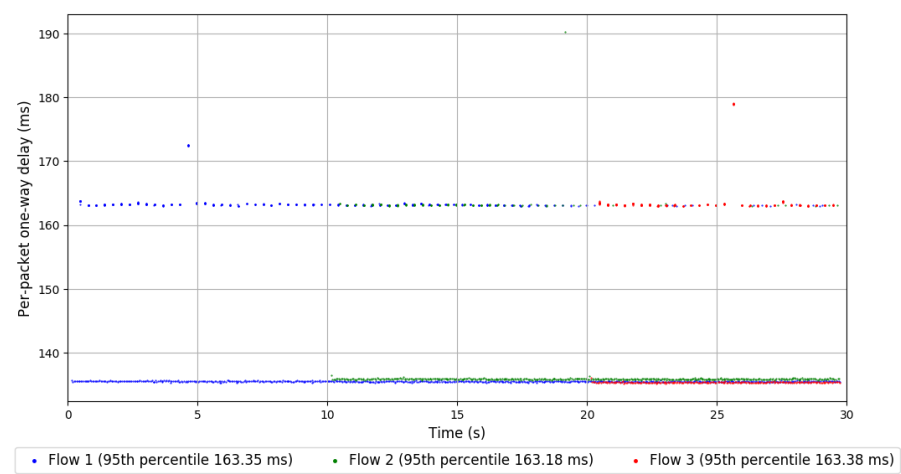
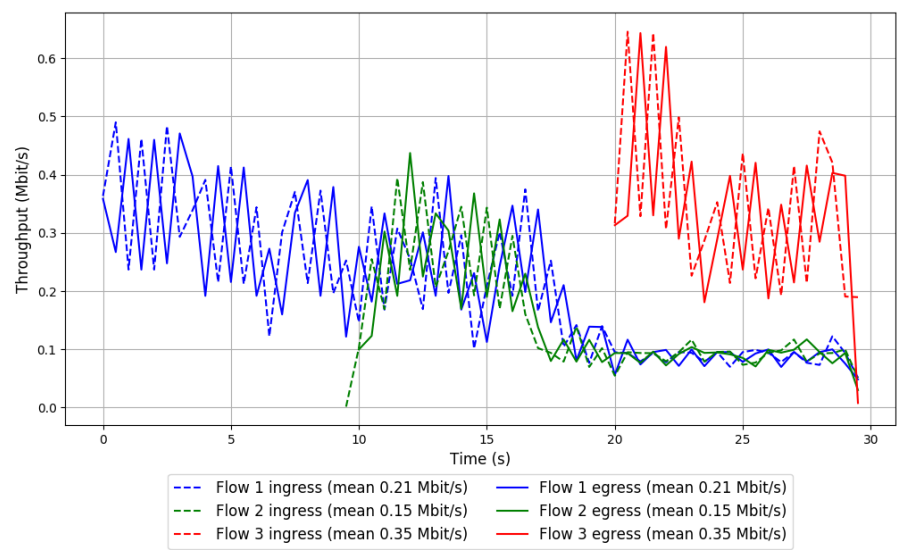
-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 163.379 ms

Loss rate: 2.67%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-01 04:14:46

End at: 2018-02-01 04:15:16

# Below is generated by plot.py at 2018-02-01 08:01:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.81 Mbit/s

95th percentile per-packet one-way delay: 163.445 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 163.180 ms

Loss rate: 1.74%

-- Flow 2:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 163.205 ms

Loss rate: 1.37%

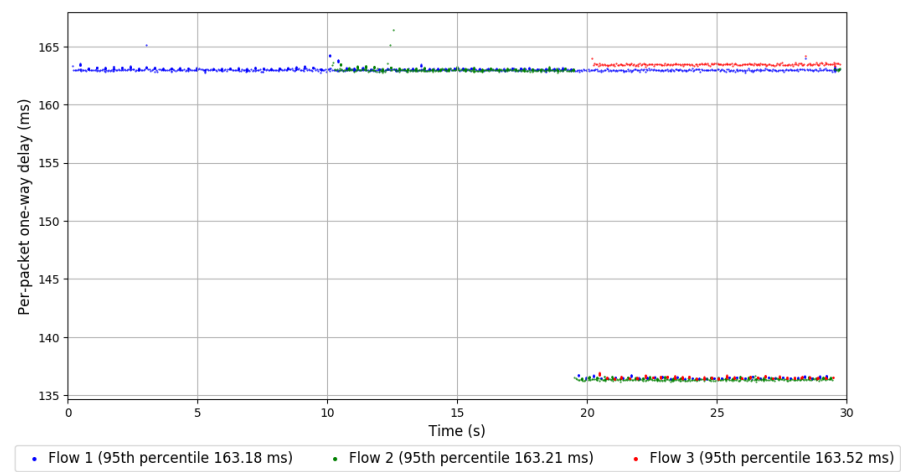
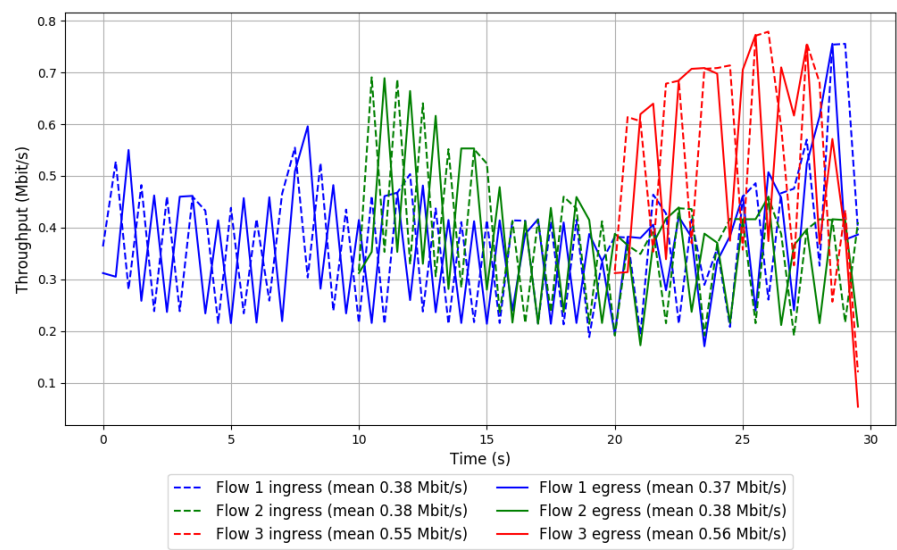
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 163.522 ms

Loss rate: 1.08%

Run 10: Report of Sprout — Data Link



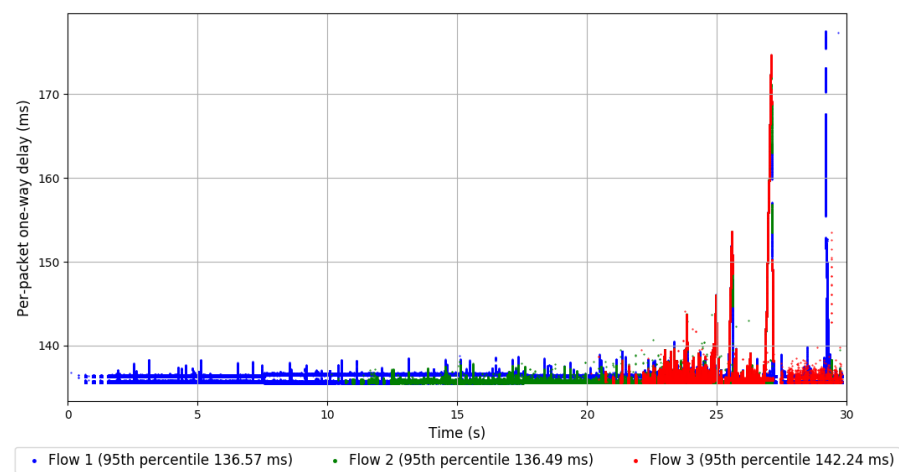
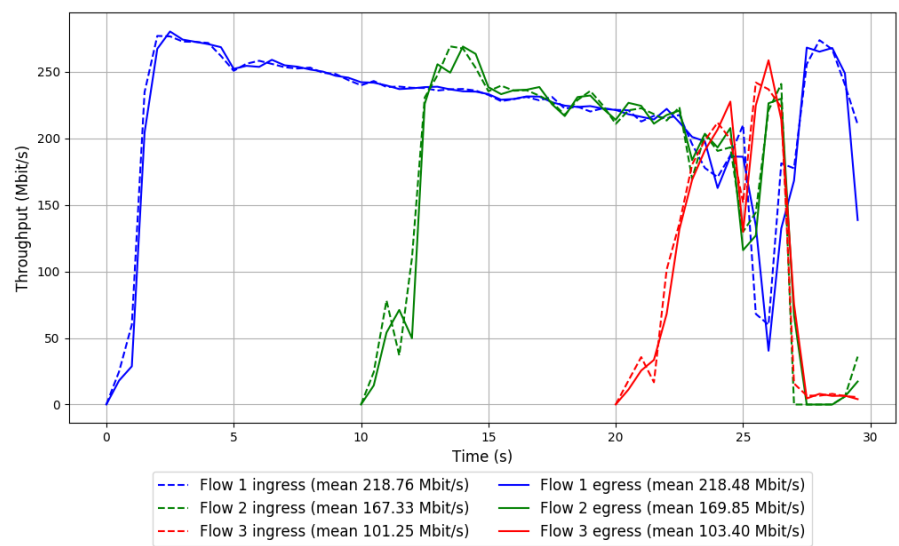
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-01 01:30:38
End at: 2018-02-01 01:31:08

# Below is generated by plot.py at 2018-02-01 08:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 364.25 Mbit/s
95th percentile per-packet one-way delay: 136.674 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 218.48 Mbit/s
95th percentile per-packet one-way delay: 136.568 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 169.85 Mbit/s
95th percentile per-packet one-way delay: 136.491 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 103.40 Mbit/s
95th percentile per-packet one-way delay: 142.238 ms
Loss rate: 0.19%
```



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

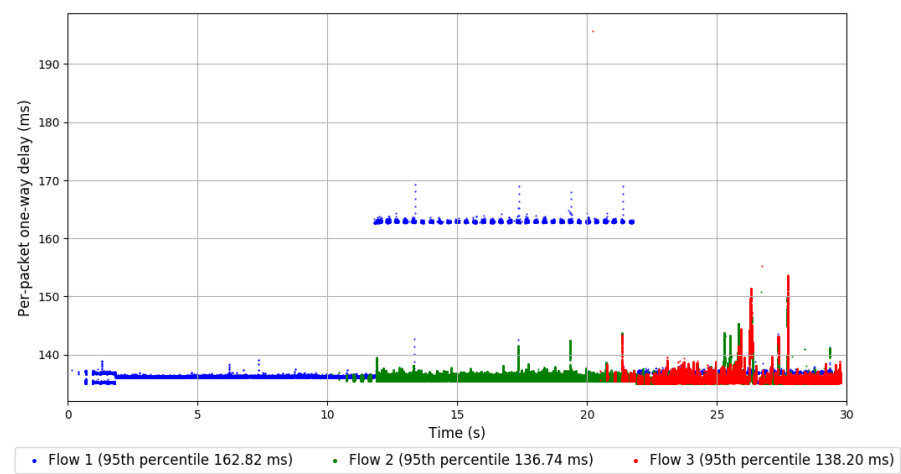
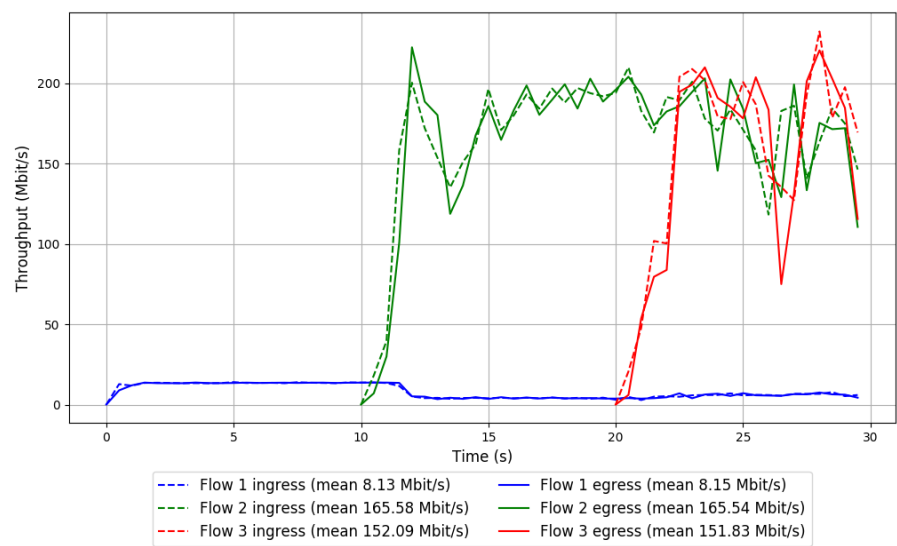


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-01 01:49:43
End at: 2018-02-01 01:50:13

# Below is generated by plot.py at 2018-02-01 08:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.56 Mbit/s
95th percentile per-packet one-way delay: 137.311 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 162.817 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 165.54 Mbit/s
95th percentile per-packet one-way delay: 136.738 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 151.83 Mbit/s
95th percentile per-packet one-way delay: 138.204 ms
Loss rate: 3.52%
```

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

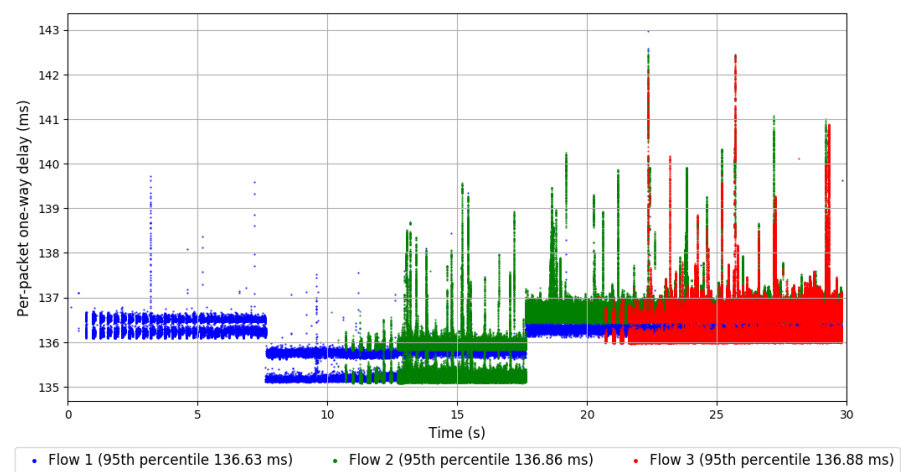
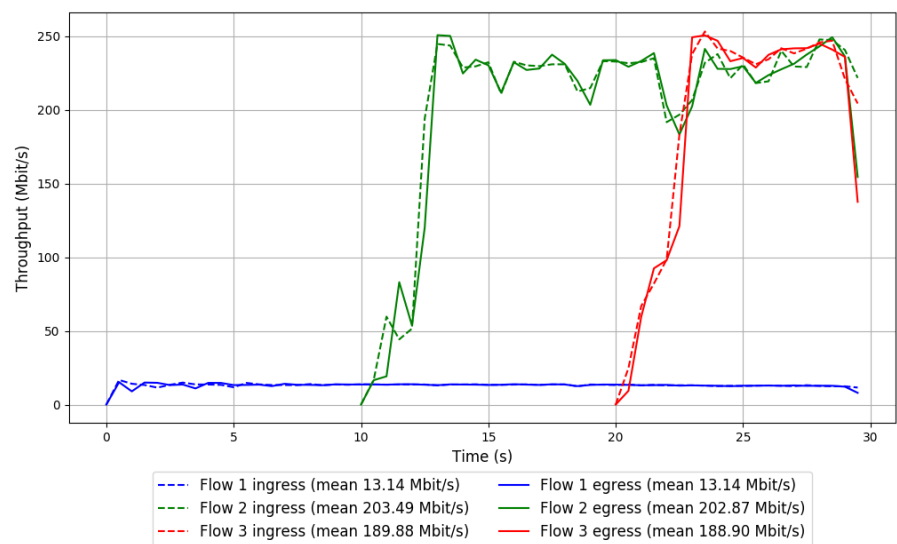


```
Run 3: Statistics of TaoVA-100x

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

# Below is generated by plot.py at 2018-02-01 08:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.99 Mbit/s
95th percentile per-packet one-way delay: 136.860 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 136.629 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 202.87 Mbit/s
95th percentile per-packet one-way delay: 136.863 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 188.90 Mbit/s
95th percentile per-packet one-way delay: 136.885 ms
Loss rate: 3.27%
```

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



Run 4: Statistics of TaoVA-100x

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

End at: 2018-02-01 02:26:56

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 133.03 Mbit/s

95th percentile per-packet one-way delay: 137.164 ms

Loss rate: 1.97%

-- Flow 1:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 136.741 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 137.171 ms

Loss rate: 1.43%

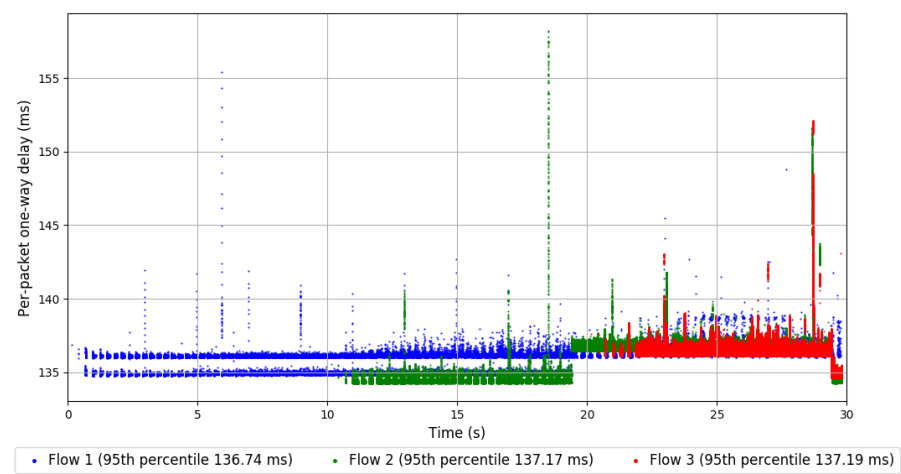
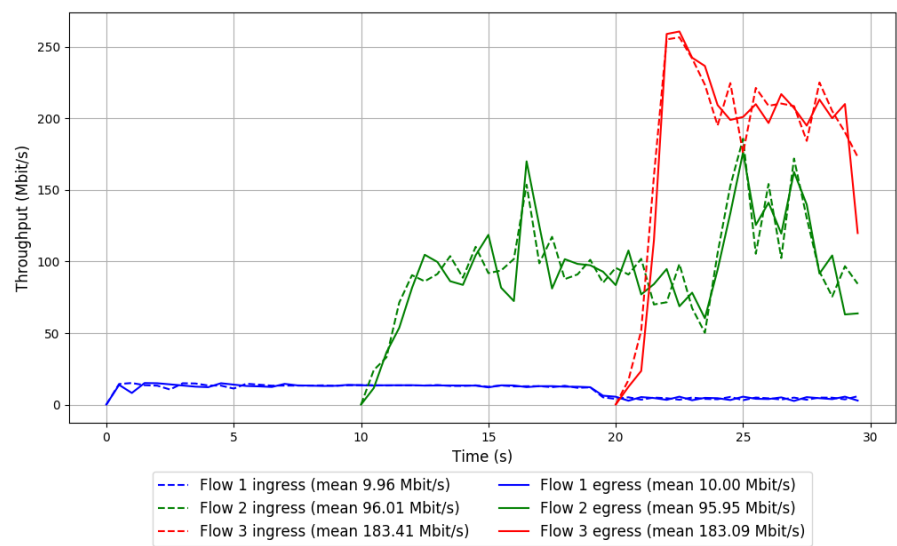
-- Flow 3:

Average throughput: 183.09 Mbit/s

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

Loss rate: 2.77%

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



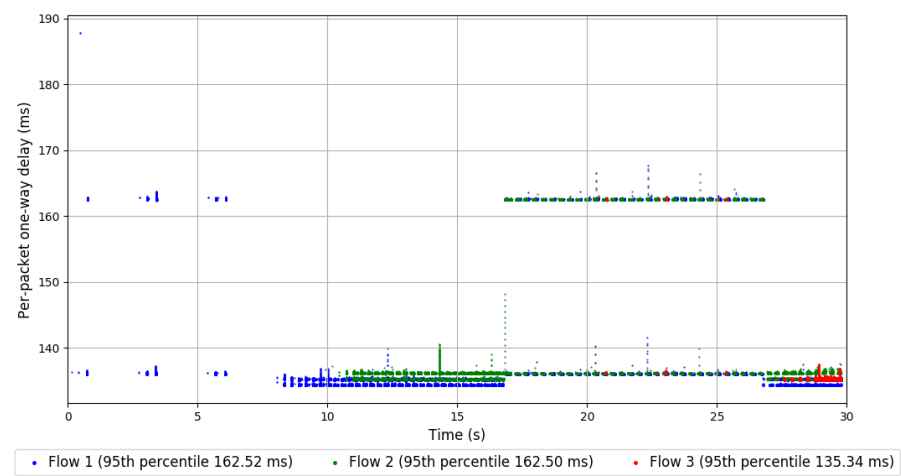
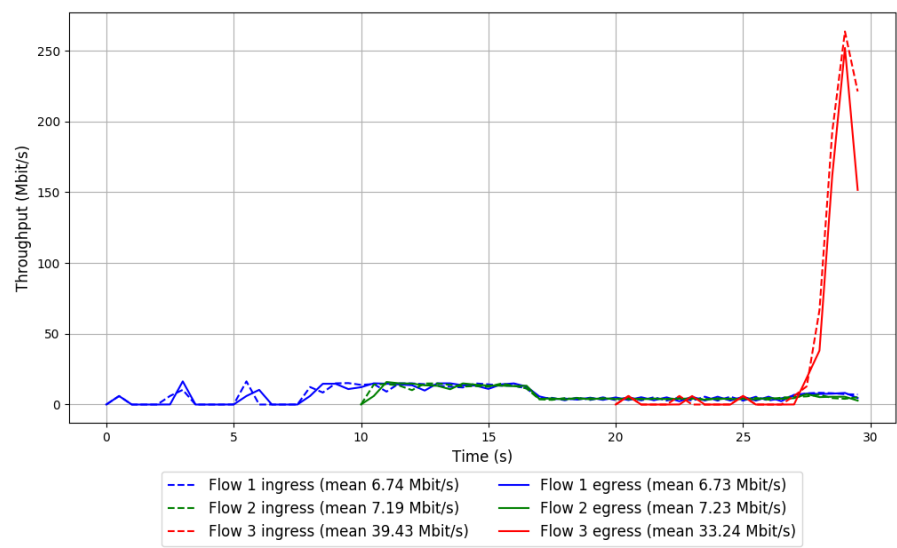
```
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-01 02:44:38
End at: 2018-02-01 02:45:08

# Below is generated by plot.py at 2018-02-01 08:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.30 Mbit/s
95th percentile per-packet one-way delay: 162.469 ms
Loss rate: 10.05%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 162.517 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 162.500 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 135.337 ms
Loss rate: 18.04%
```



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-01 03:02:39

End at: 2018-02-01 03:03:09

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 162.619 ms

Loss rate: 5.28%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 162.629 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 162.609 ms

Loss rate: 10.18%

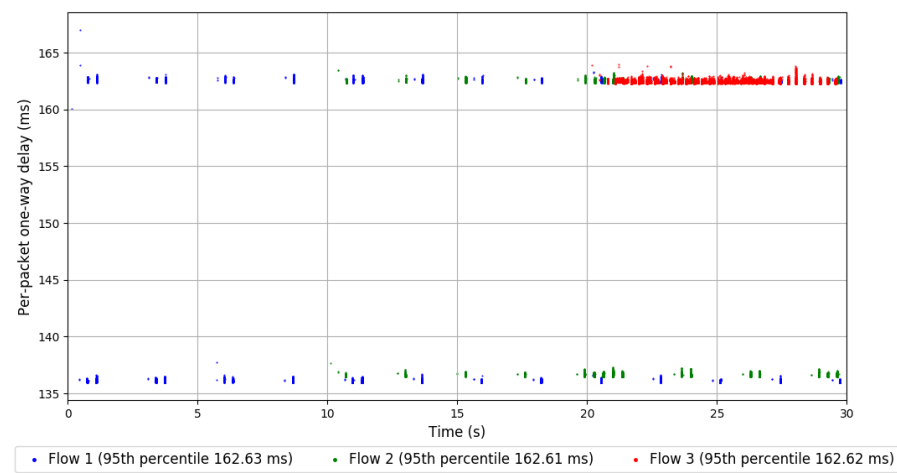
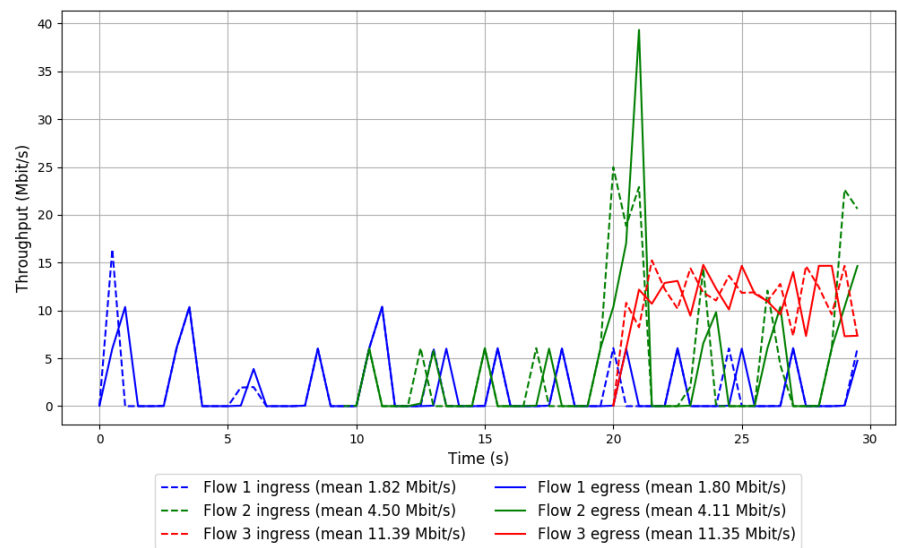
-- Flow 3:

Average throughput: 11.35 Mbit/s

95th percentile per-packet one-way delay: 162.621 ms

Loss rate: 3.30%

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

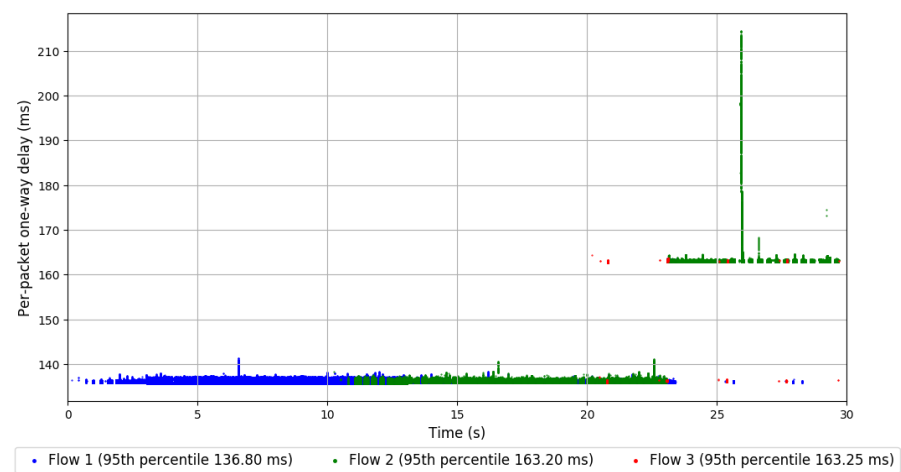
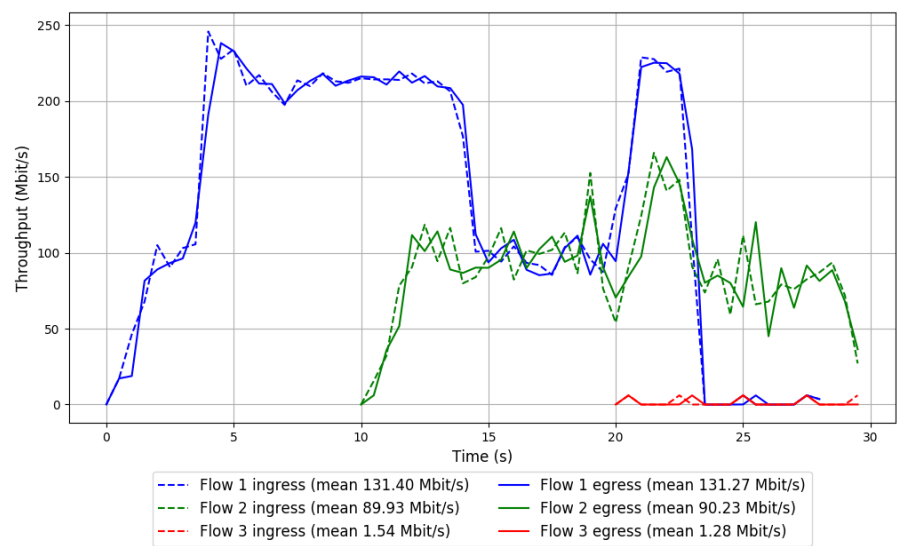


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-01 03:20:32
End at: 2018-02-01 03:21:02

# Below is generated by plot.py at 2018-02-01 08:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 184.82 Mbit/s
95th percentile per-packet one-way delay: 163.092 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 131.27 Mbit/s
95th percentile per-packet one-way delay: 136.799 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 163.199 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 163.247 ms
Loss rate: 19.83%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-01 03:38:52

End at: 2018-02-01 03:39:22

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 142.94 Mbit/s

95th percentile per-packet one-way delay: 163.205 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 115.37 Mbit/s

95th percentile per-packet one-way delay: 136.576 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.06 Mbit/s

95th percentile per-packet one-way delay: 163.026 ms

Loss rate: 1.18%

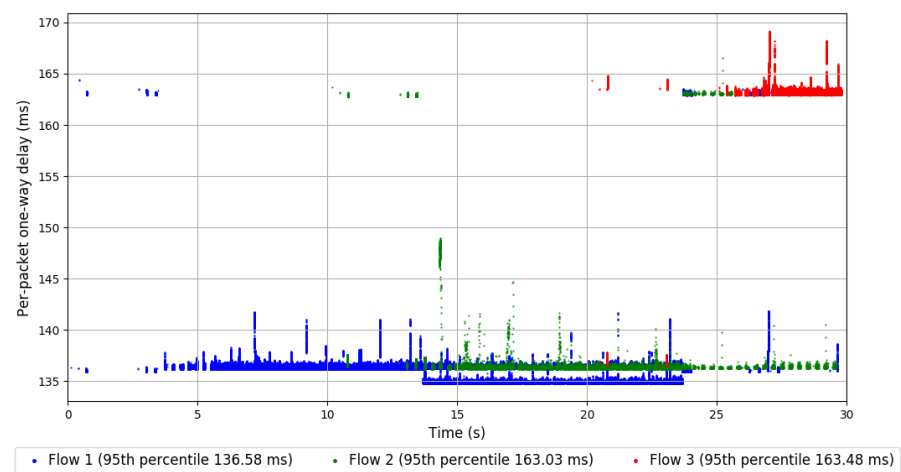
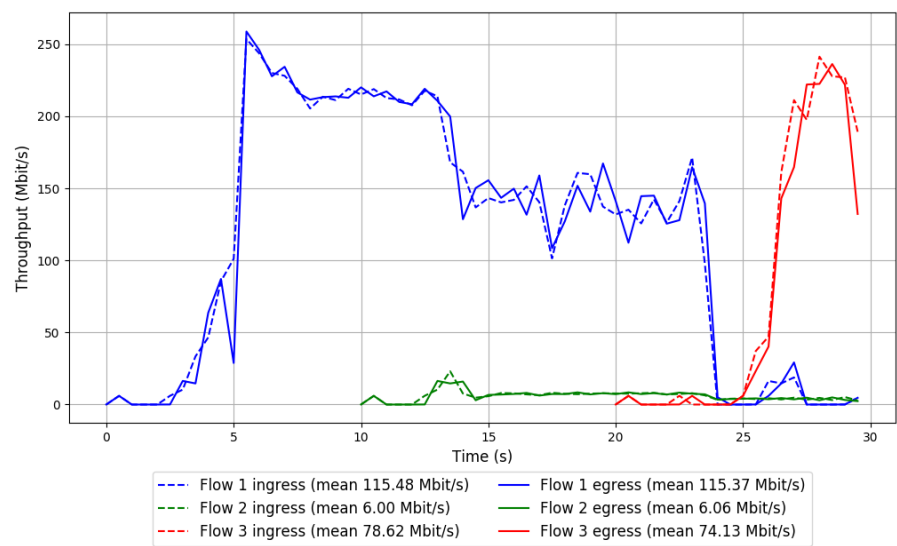
-- Flow 3:

Average throughput: 74.13 Mbit/s

95th percentile per-packet one-way delay: 163.481 ms

Loss rate: 8.56%

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



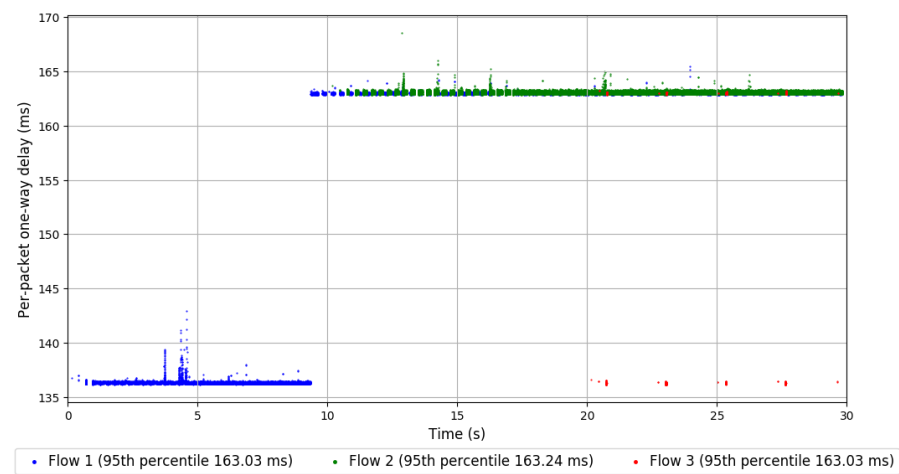
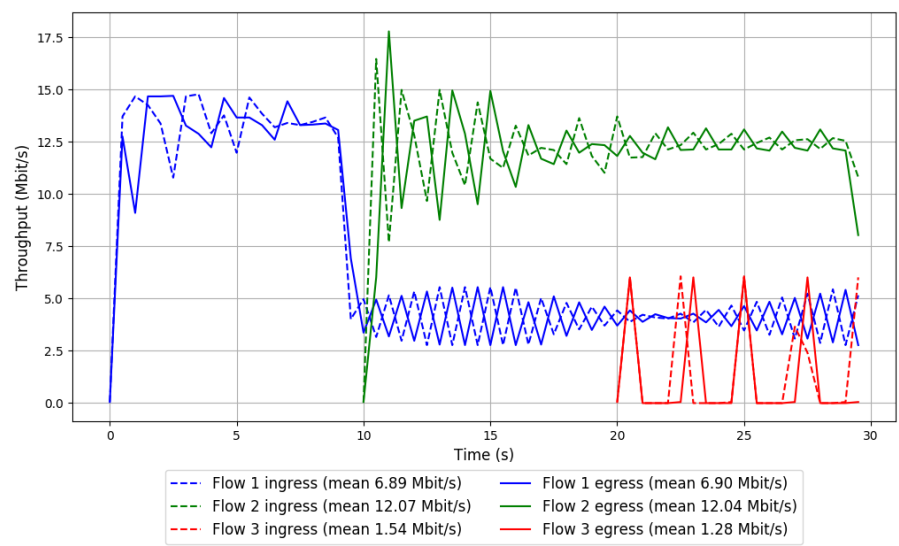
```
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-01 03:57:36
End at: 2018-02-01 03:58:06

# Below is generated by plot.py at 2018-02-01 08:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.28 Mbit/s
95th percentile per-packet one-way delay: 163.211 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 163.035 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 163.238 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 163.031 ms
Loss rate: 19.83%
```



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

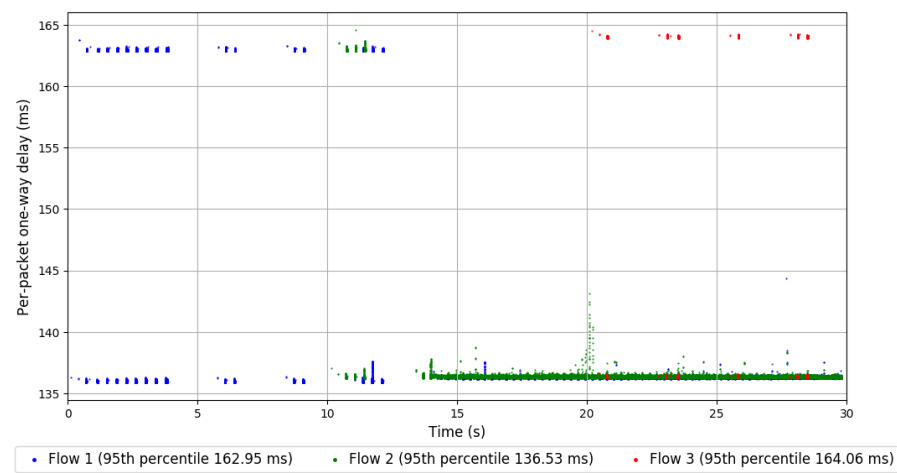
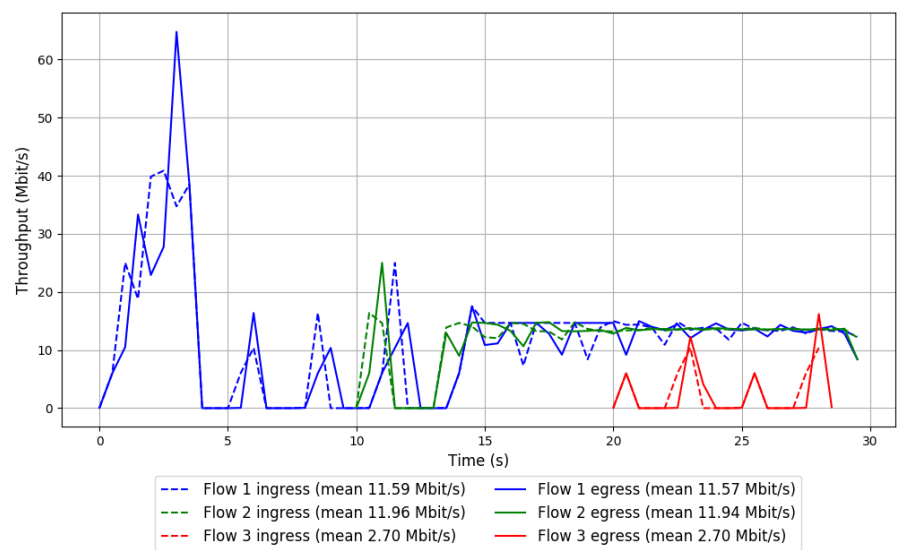


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-01 04:16:33
End at: 2018-02-01 04:17:03

# Below is generated by plot.py at 2018-02-01 08:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 162.953 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 162.951 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 136.529 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 164.055 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-01 01:15:46

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

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.74 Mbit/s

95th percentile per-packet one-way delay: 141.973 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 47.18 Mbit/s

95th percentile per-packet one-way delay: 142.383 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 26.13 Mbit/s

95th percentile per-packet one-way delay: 137.843 ms

Loss rate: 1.47%

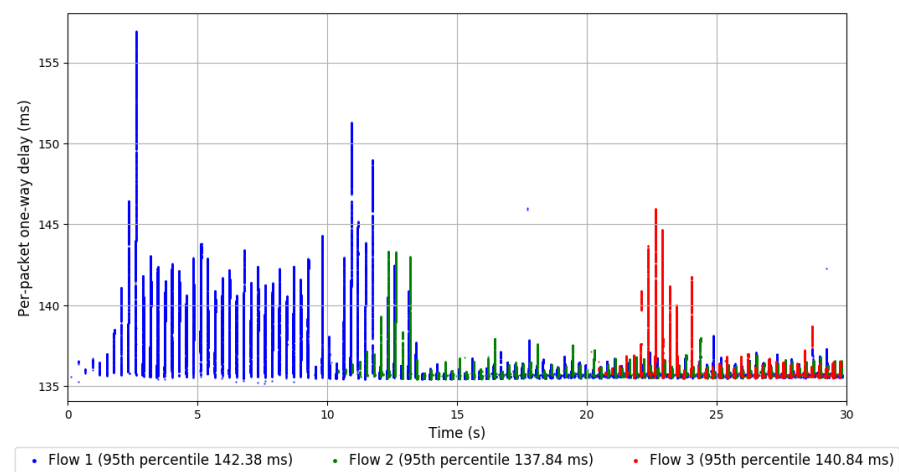
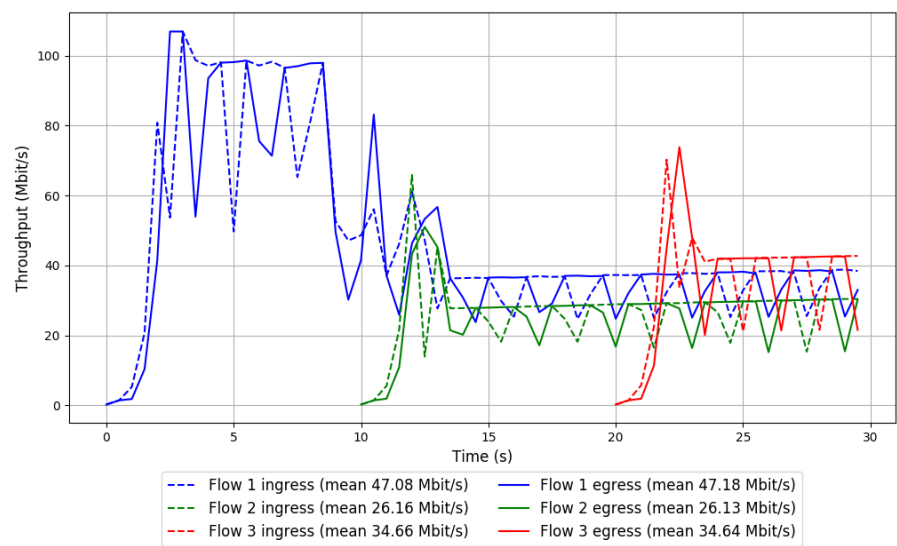
-- Flow 3:

Average throughput: 34.64 Mbit/s

95th percentile per-packet one-way delay: 140.839 ms

Loss rate: 3.11%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-01 01:35:19

End at: 2018-02-01 01:35:49

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.95 Mbit/s

95th percentile per-packet one-way delay: 143.018 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 22.64 Mbit/s

95th percentile per-packet one-way delay: 141.225 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 26.33 Mbit/s

95th percentile per-packet one-way delay: 144.216 ms

Loss rate: 1.13%

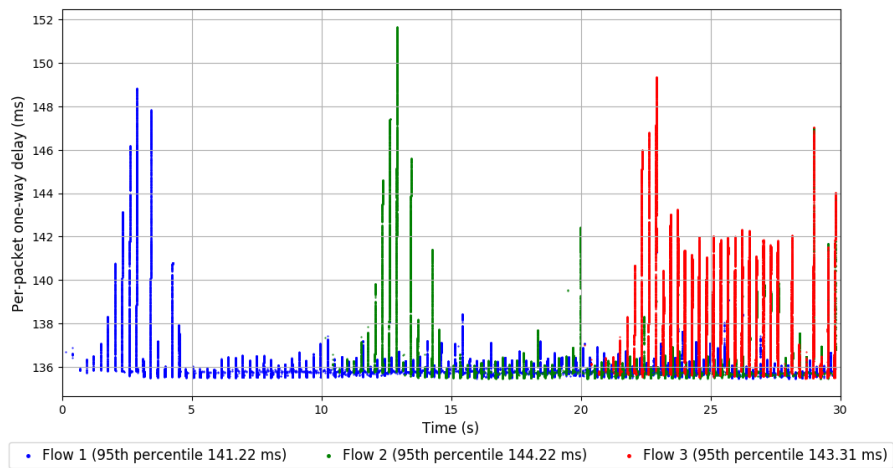
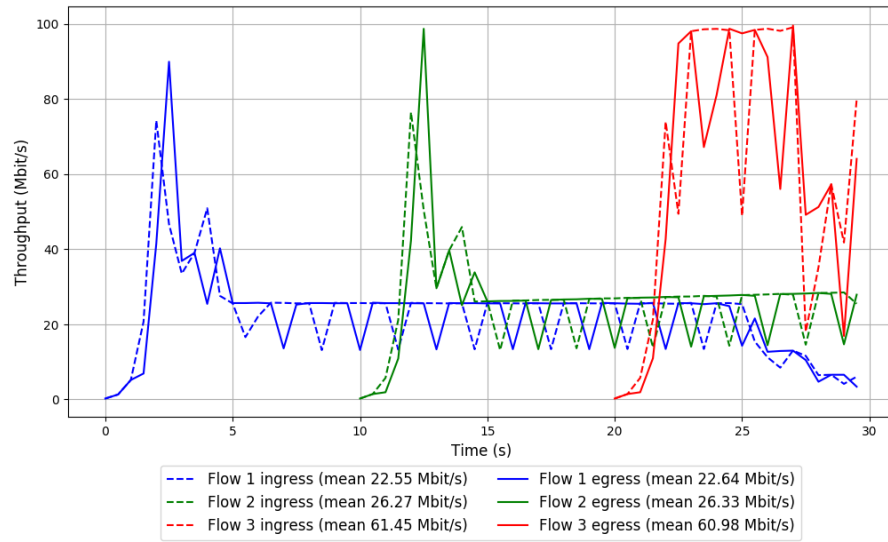
-- Flow 3:

Average throughput: 60.98 Mbit/s

95th percentile per-packet one-way delay: 143.313 ms

Loss rate: 3.51%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-01 01:53:59

End at: 2018-02-01 01:54:29

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 136.846 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 19.66 Mbit/s

95th percentile per-packet one-way delay: 136.848 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 23.82 Mbit/s

95th percentile per-packet one-way delay: 136.863 ms

Loss rate: 1.44%

-- Flow 3:

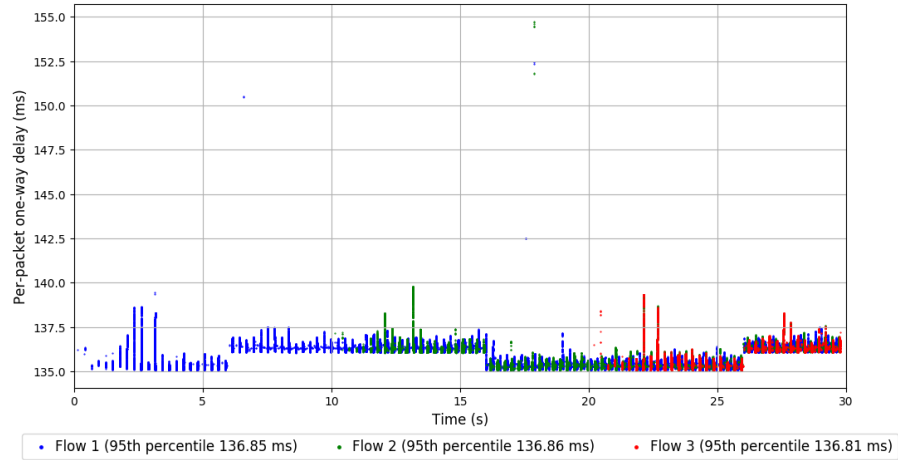
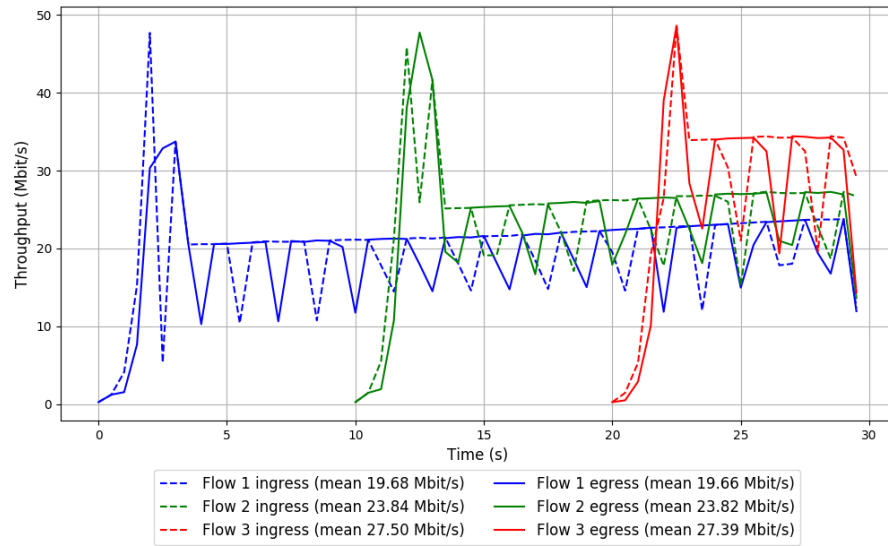
Average throughput: 27.39 Mbit/s

95th percentile per-packet one-way delay: 136.806 ms

Loss rate: 3.14%



### Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-01 02:12:31

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

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.61 Mbit/s

95th percentile per-packet one-way delay: 137.296 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 27.84 Mbit/s

95th percentile per-packet one-way delay: 137.326 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 26.19 Mbit/s

95th percentile per-packet one-way delay: 137.376 ms

Loss rate: 1.36%

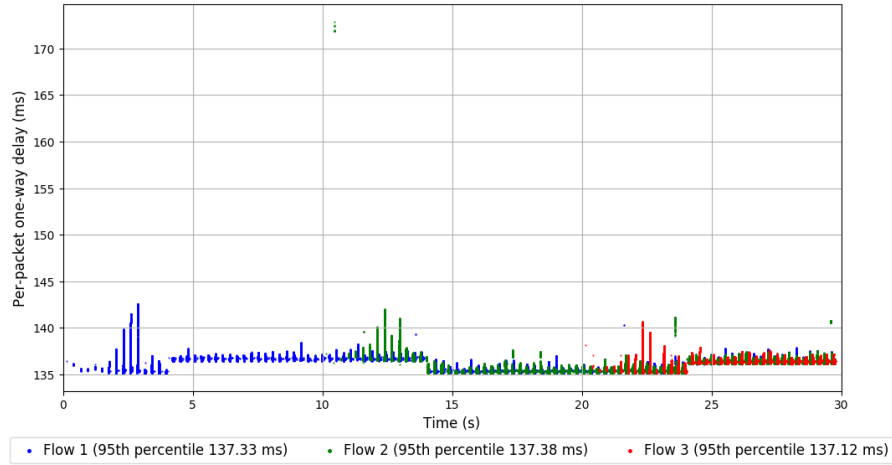
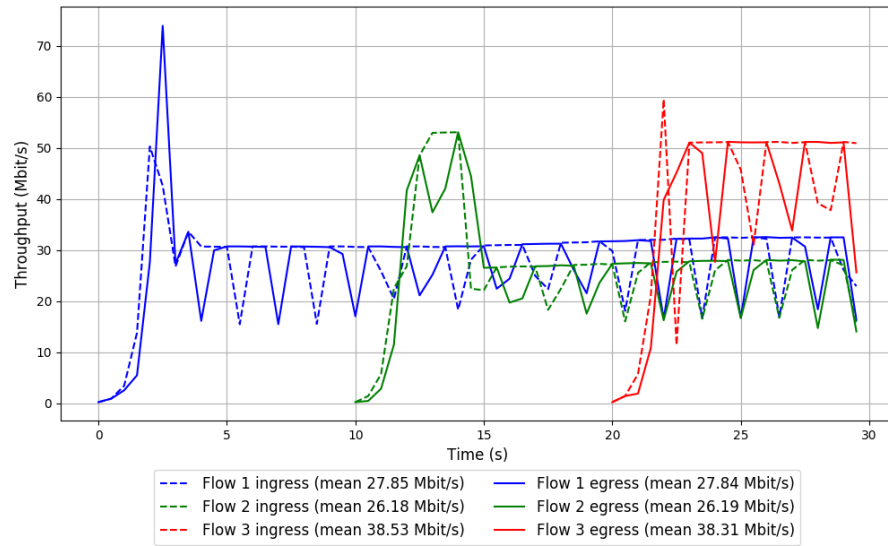
-- Flow 3:

Average throughput: 38.31 Mbit/s

95th percentile per-packet one-way delay: 137.115 ms

Loss rate: 3.35%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-01 02:30:37

End at: 2018-02-01 02:31:07

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 137.435 ms

Loss rate: 1.51%

-- Flow 1:

Average throughput: 26.72 Mbit/s

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

Loss rate: 0.65%

-- Flow 2:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 137.447 ms

Loss rate: 1.49%

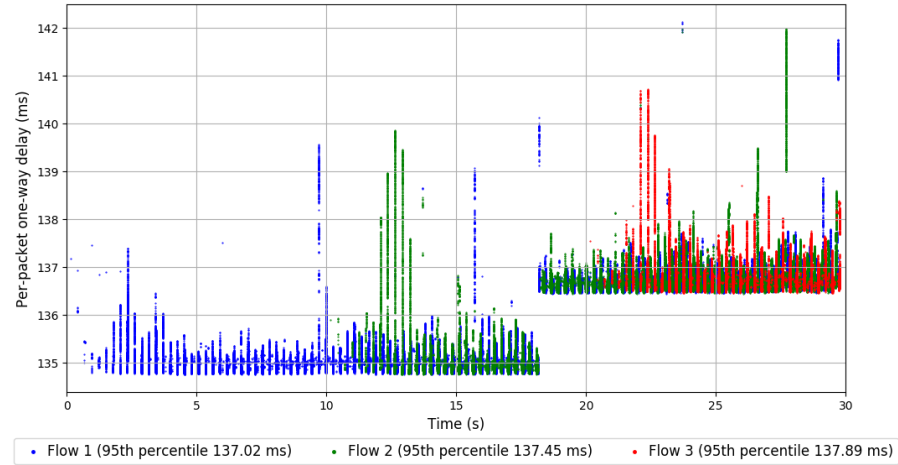
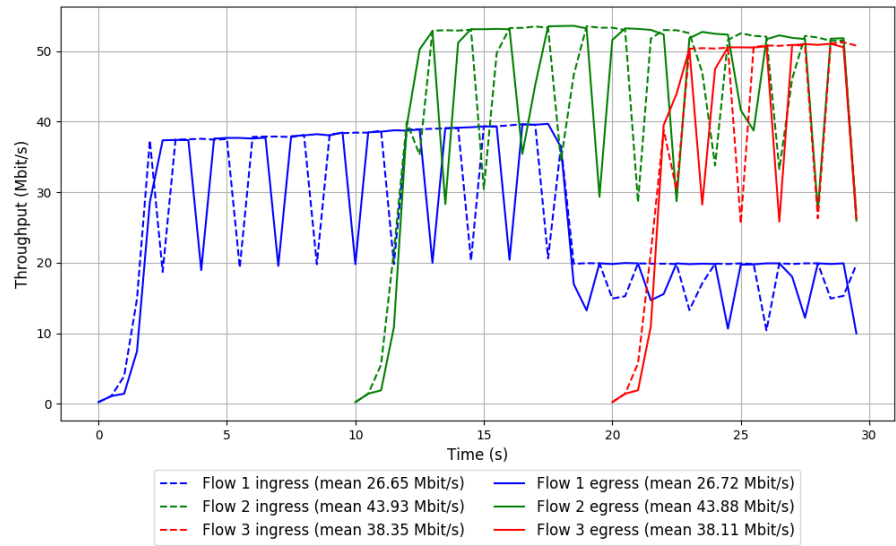
-- Flow 3:

Average throughput: 38.11 Mbit/s

95th percentile per-packet one-way delay: 137.894 ms

Loss rate: 3.39%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-01 02:48:43

End at: 2018-02-01 02:49:13

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 37.27 Mbit/s

95th percentile per-packet one-way delay: 163.478 ms

Loss rate: 1.83%

-- Flow 1:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 163.203 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 162.667 ms

Loss rate: 2.12%

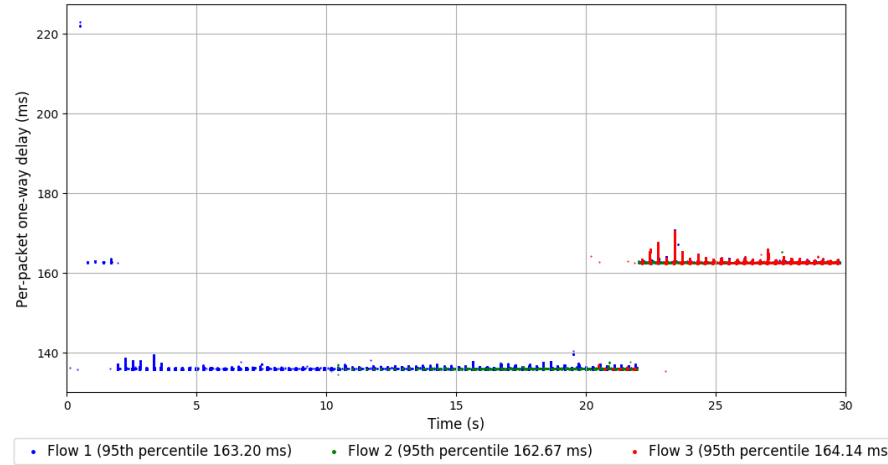
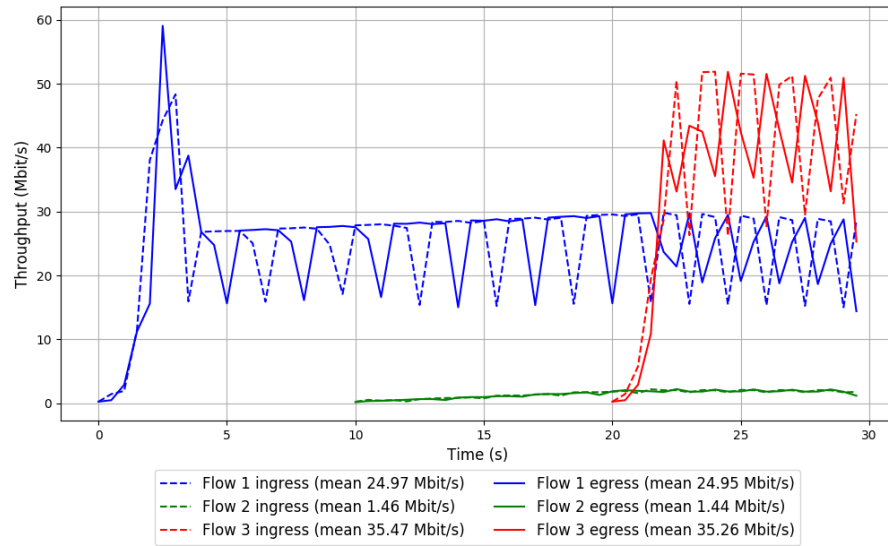
-- Flow 3:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 164.136 ms

Loss rate: 3.65%

# Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-01 03:06:39

End at: 2018-02-01 03:07:09

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.24 Mbit/s

95th percentile per-packet one-way delay: 163.161 ms

Loss rate: 1.50%

-- Flow 1:

Average throughput: 24.17 Mbit/s

95th percentile per-packet one-way delay: 162.857 ms

Loss rate: 0.92%

-- Flow 2:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 163.205 ms

Loss rate: 1.60%

-- Flow 3:

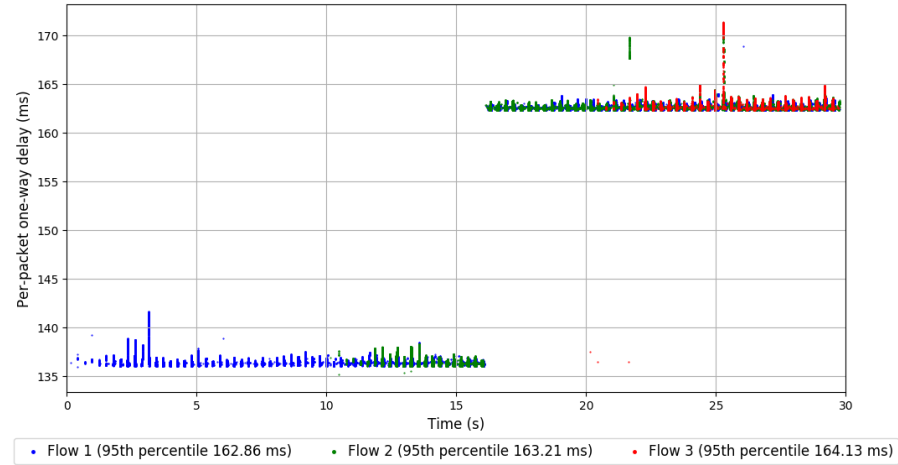
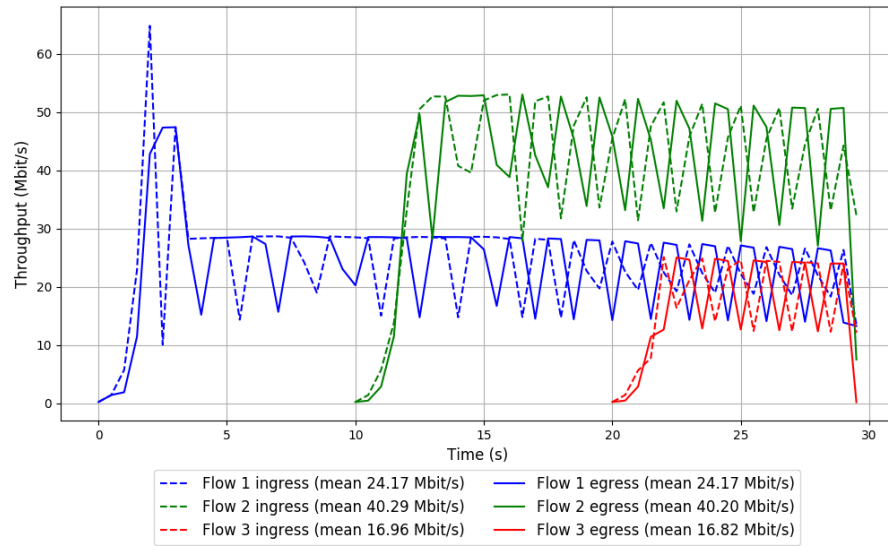
Average throughput: 16.82 Mbit/s

95th percentile per-packet one-way delay: 164.132 ms

Loss rate: 3.58%



# Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-01 03:24:49

End at: 2018-02-01 03:25:19

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 28.46 Mbit/s

95th percentile per-packet one-way delay: 163.492 ms

Loss rate: 2.30%

-- Flow 1:

Average throughput: 5.35 Mbit/s

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

Loss rate: 0.69%

-- Flow 2:

Average throughput: 18.40 Mbit/s

95th percentile per-packet one-way delay: 163.518 ms

Loss rate: 1.54%

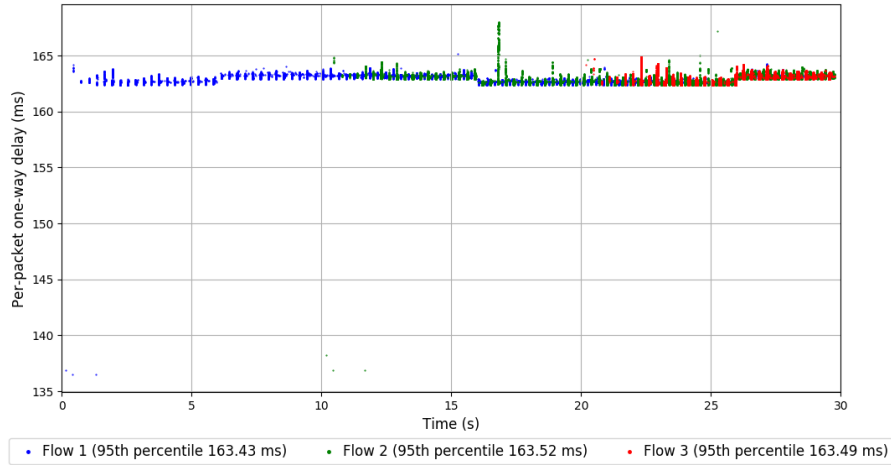
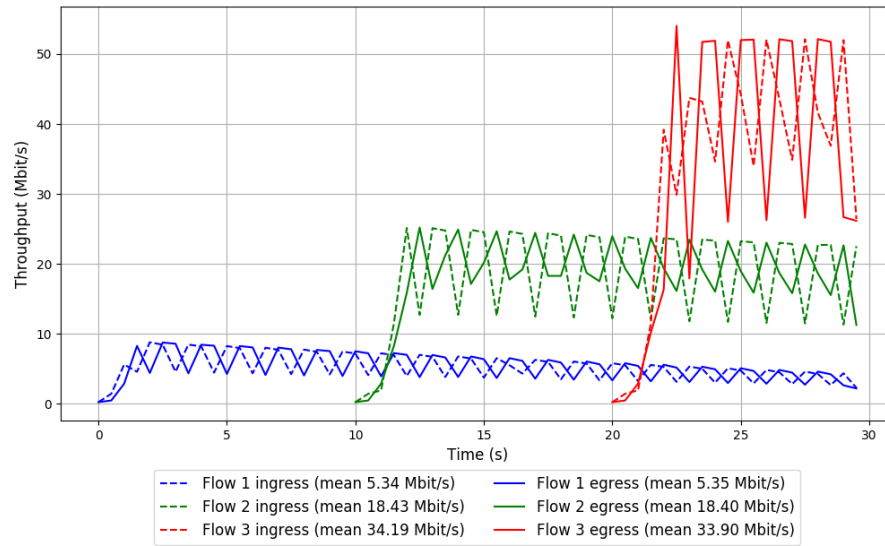
-- Flow 3:

Average throughput: 33.90 Mbit/s

95th percentile per-packet one-way delay: 163.492 ms

Loss rate: 3.87%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-01 03:43:07

End at: 2018-02-01 03:43:37

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 37.90 Mbit/s

95th percentile per-packet one-way delay: 164.018 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 21.92 Mbit/s

95th percentile per-packet one-way delay: 163.822 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 22.02 Mbit/s

95th percentile per-packet one-way delay: 164.269 ms

Loss rate: 2.21%

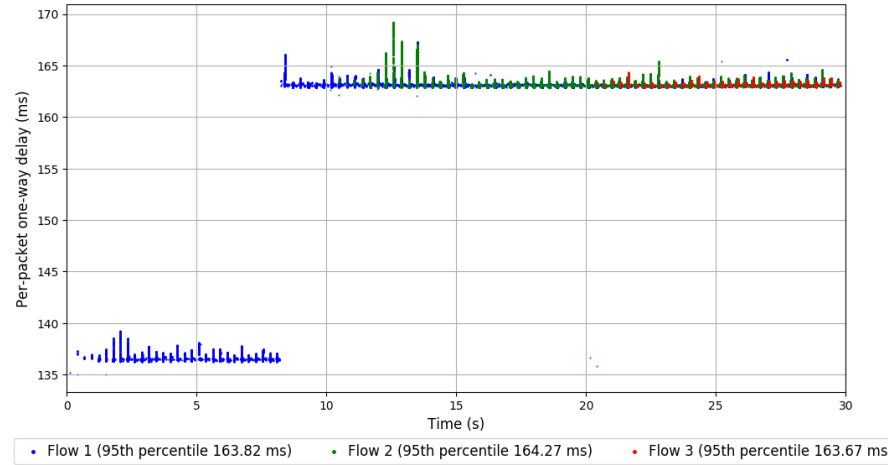
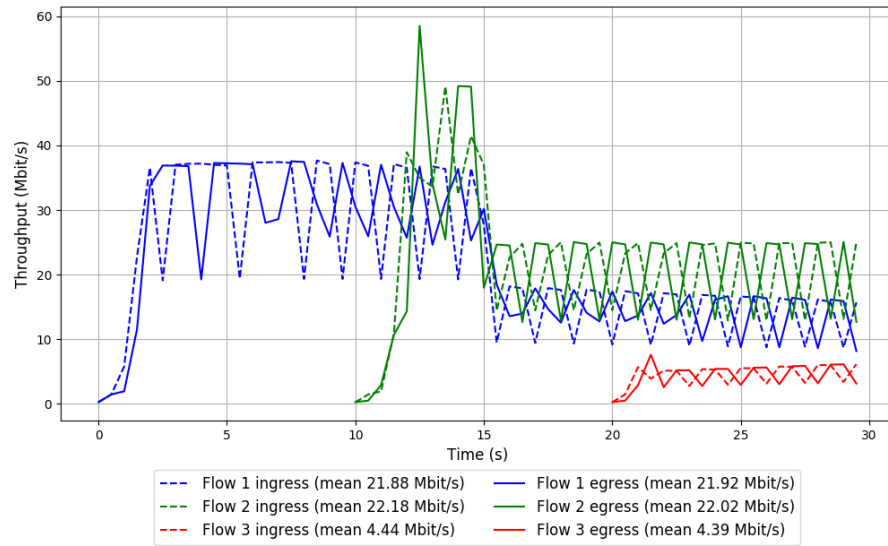
-- Flow 3:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 163.673 ms

Loss rate: 3.65%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-01 04:01:53

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

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 34.94 Mbit/s

95th percentile per-packet one-way delay: 139.246 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 14.87 Mbit/s

95th percentile per-packet one-way delay: 137.388 ms

Loss rate: 1.54%

-- Flow 2:

Average throughput: 29.18 Mbit/s

95th percentile per-packet one-way delay: 139.867 ms

Loss rate: 1.48%

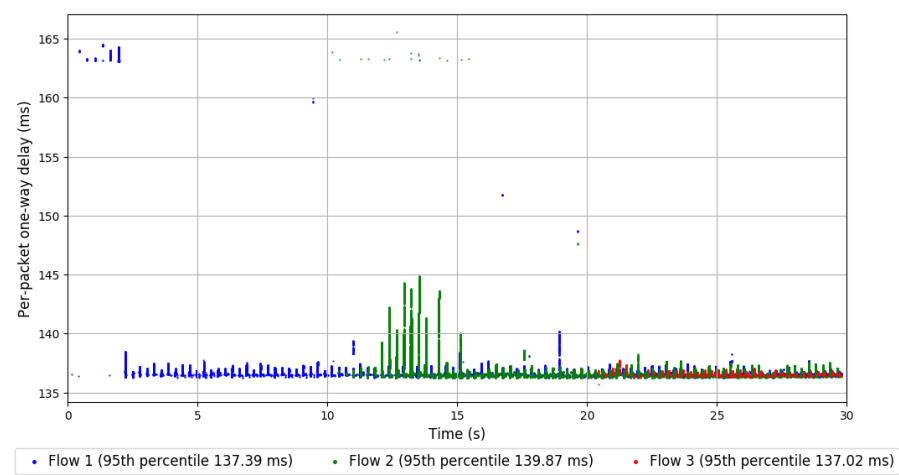
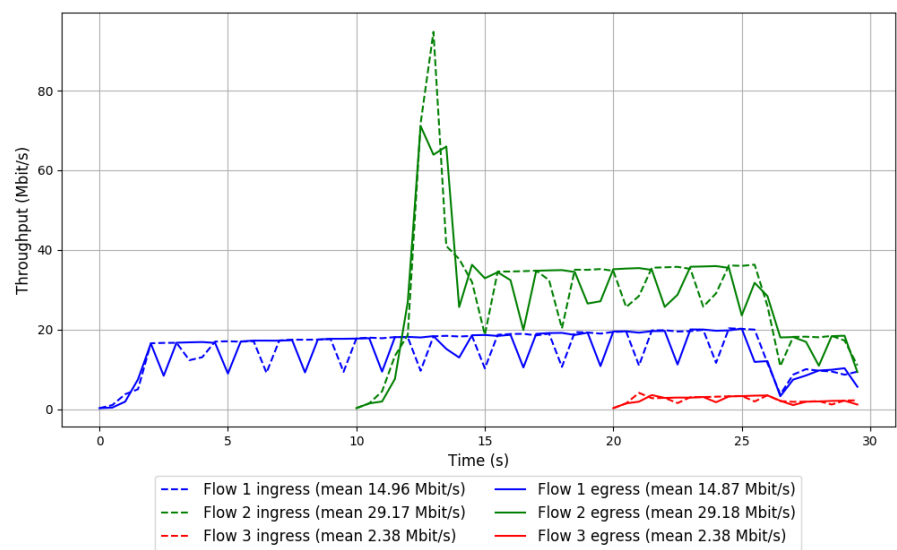
-- Flow 3:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 137.024 ms

Loss rate: 2.60%

Run 10: Report of TCP Vegas — Data Link



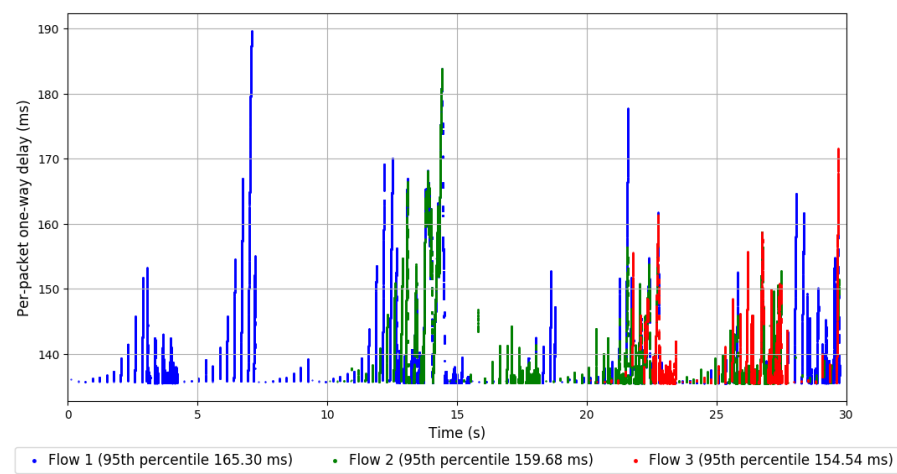
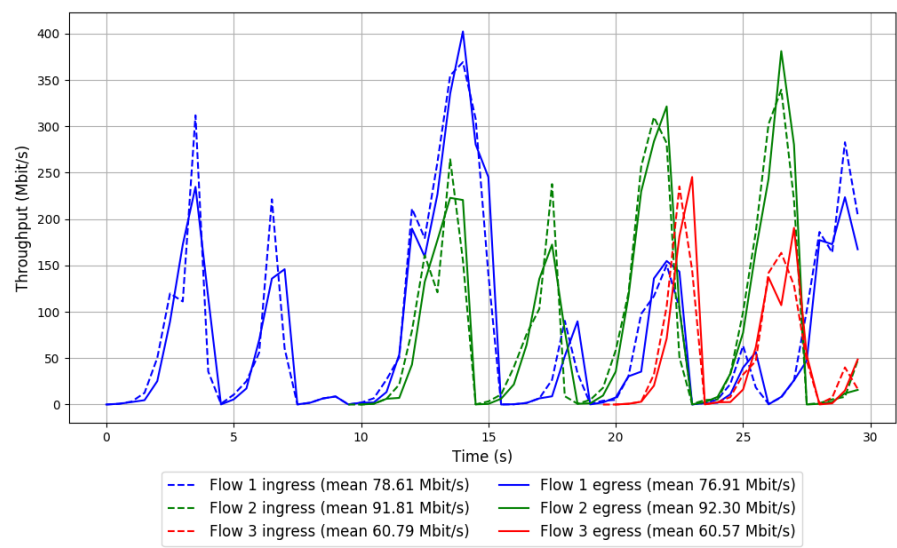
```
Run 1: Statistics of Verus

Start at: 2018-02-01 01:23:26
End at: 2018-02-01 01:23:56

# Below is generated by plot.py at 2018-02-01 08:06:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 157.60 Mbit/s
95th percentile per-packet one-way delay: 162.791 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 76.91 Mbit/s
95th percentile per-packet one-way delay: 165.297 ms
Loss rate: 3.20%
-- Flow 2:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: 159.680 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 60.57 Mbit/s
95th percentile per-packet one-way delay: 154.538 ms
Loss rate: 0.00%
```



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-01 01:42:30

End at: 2018-02-01 01:43:00

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 269.63 Mbit/s

95th percentile per-packet one-way delay: 215.912 ms

Loss rate: 2.14%

-- Flow 1:

Average throughput: 181.53 Mbit/s

95th percentile per-packet one-way delay: 255.811 ms

Loss rate: 1.90%

-- Flow 2:

Average throughput: 111.24 Mbit/s

95th percentile per-packet one-way delay: 169.077 ms

Loss rate: 0.75%

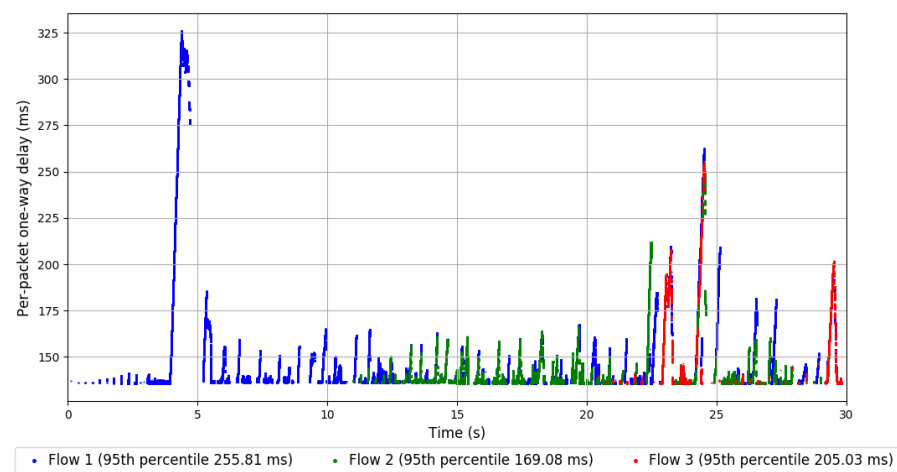
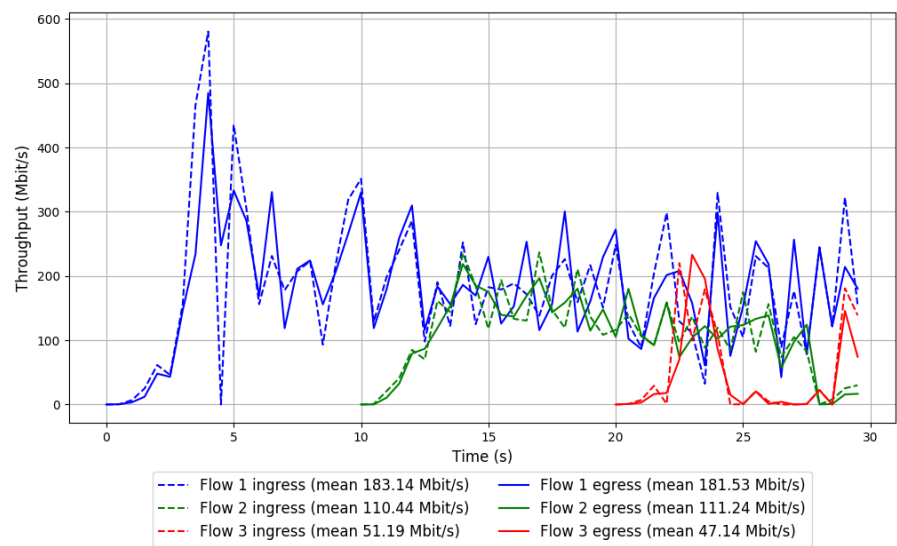
-- Flow 3:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 205.030 ms

Loss rate: 10.61%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-01 02:00:58

End at: 2018-02-01 02:01:28

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 237.96 Mbit/s

95th percentile per-packet one-way delay: 332.918 ms

Loss rate: 5.07%

-- Flow 1:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 338.787 ms

Loss rate: 5.51%

-- Flow 2:

Average throughput: 39.55 Mbit/s

95th percentile per-packet one-way delay: 246.044 ms

Loss rate: 2.47%

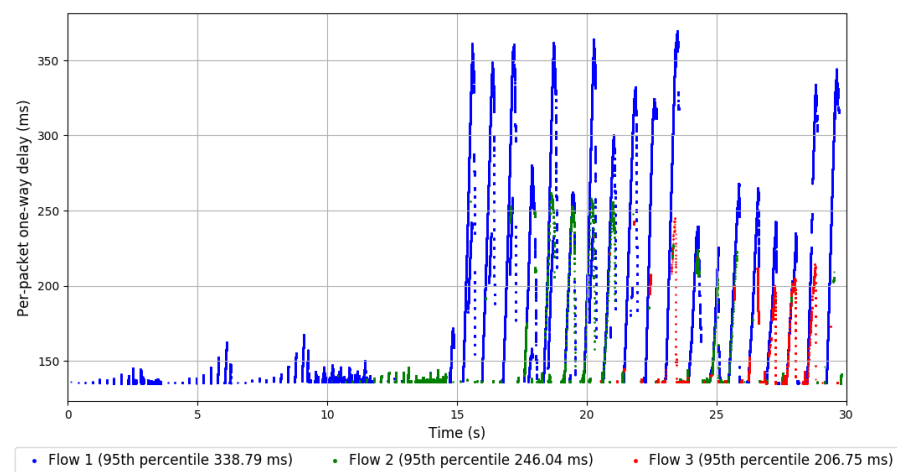
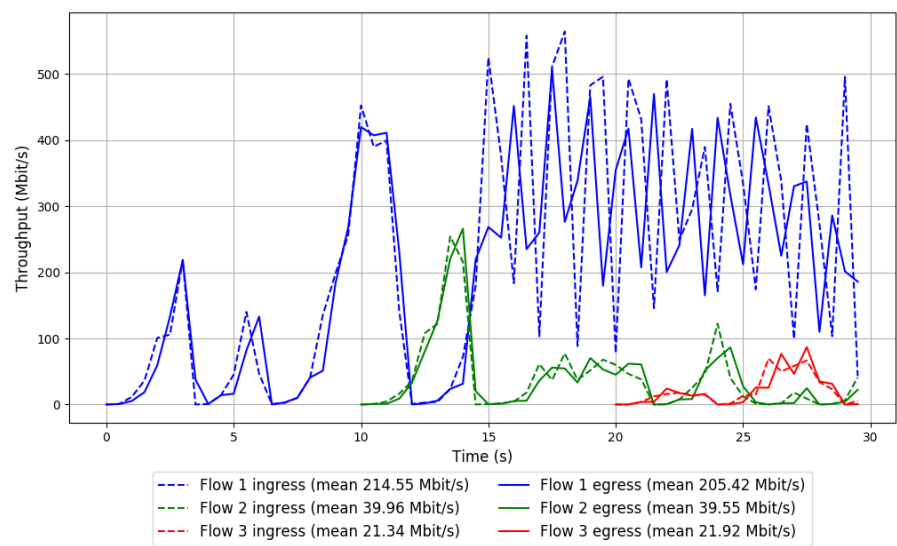
-- Flow 3:

Average throughput: 21.92 Mbit/s

95th percentile per-packet one-way delay: 206.749 ms

Loss rate: 1.20%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-01 02:19:17

End at: 2018-02-01 02:19:47

# Below is generated by plot.py at 2018-02-01 08:06:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 194.36 Mbit/s

95th percentile per-packet one-way delay: 161.099 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 159.57 Mbit/s

95th percentile per-packet one-way delay: 161.738 ms

Loss rate: 1.59%

-- Flow 2:

Average throughput: 45.20 Mbit/s

95th percentile per-packet one-way delay: 152.335 ms

Loss rate: 0.73%

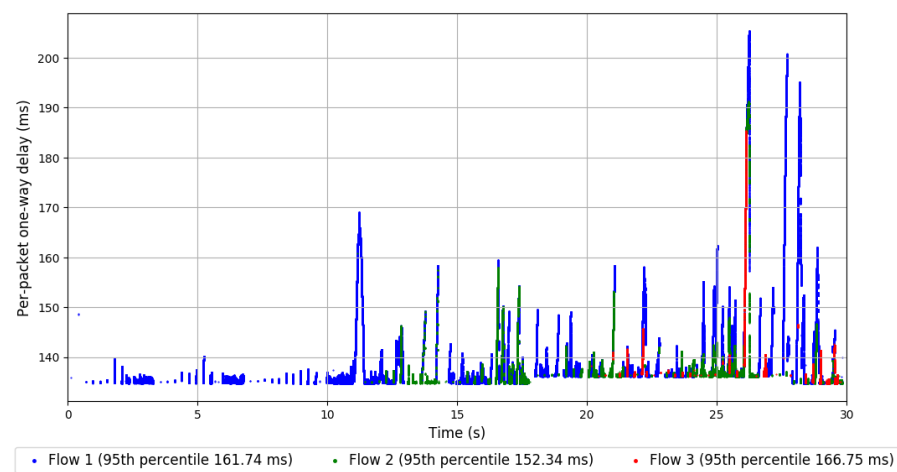
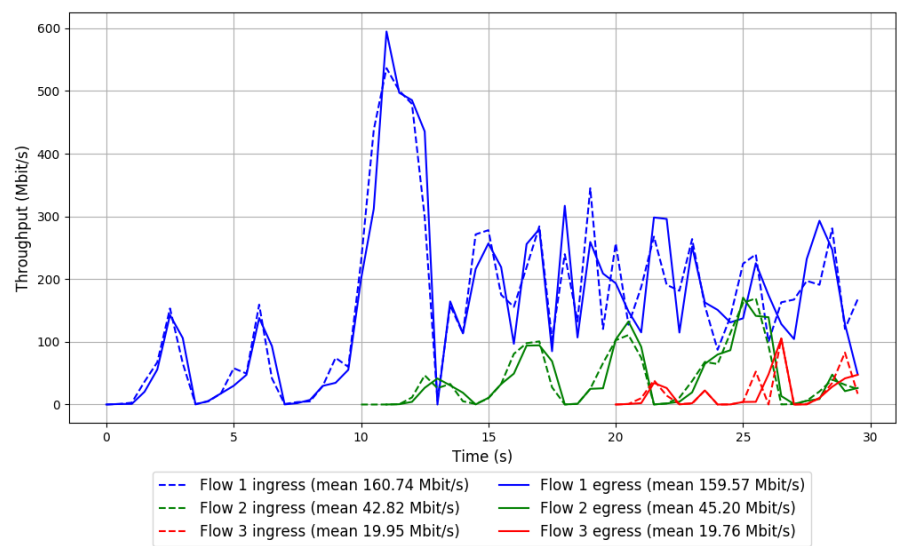
-- Flow 3:

Average throughput: 19.76 Mbit/s

95th percentile per-packet one-way delay: 166.753 ms

Loss rate: 4.32%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-01 02:37:33

End at: 2018-02-01 02:38:03

# Below is generated by plot.py at 2018-02-01 08:06:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 159.30 Mbit/s

95th percentile per-packet one-way delay: 202.783 ms

Loss rate: 3.56%

-- Flow 1:

Average throughput: 70.85 Mbit/s

95th percentile per-packet one-way delay: 218.185 ms

Loss rate: 4.74%

-- Flow 2:

Average throughput: 121.87 Mbit/s

95th percentile per-packet one-way delay: 202.064 ms

Loss rate: 2.86%

-- Flow 3:

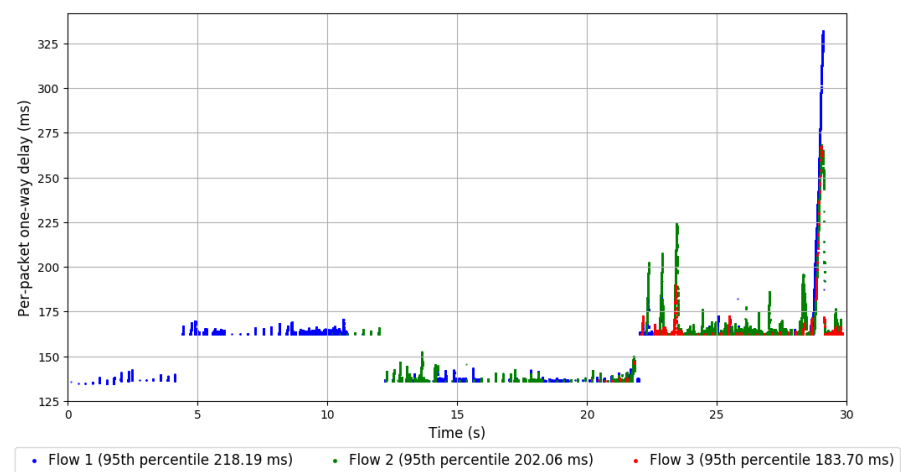
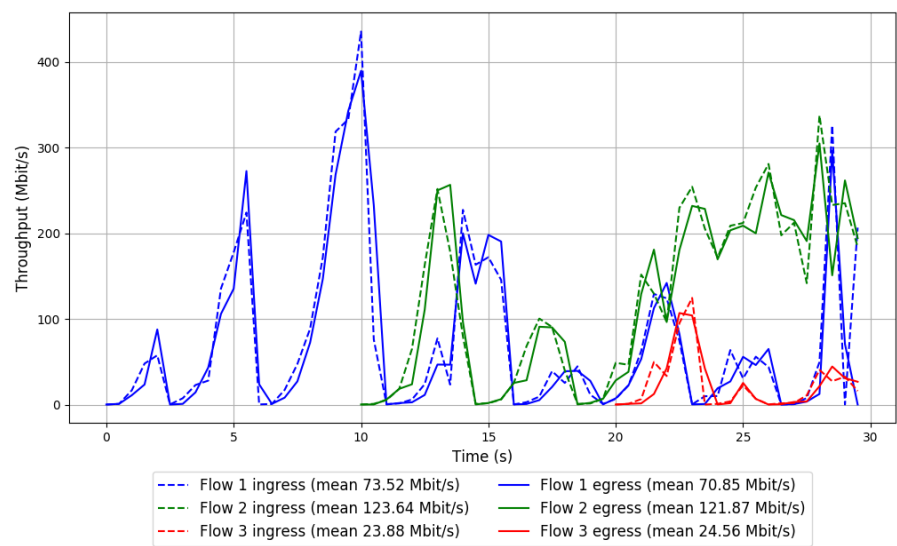
Average throughput: 24.56 Mbit/s

95th percentile per-packet one-way delay: 183.699 ms

Loss rate: 0.01%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-01 02:55:23

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

# Below is generated by plot.py at 2018-02-01 08:06:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 188.22 Mbit/s

95th percentile per-packet one-way delay: 198.429 ms

Loss rate: 2.08%

-- Flow 1:

Average throughput: 123.18 Mbit/s

95th percentile per-packet one-way delay: 224.265 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 66.97 Mbit/s

95th percentile per-packet one-way delay: 165.857 ms

Loss rate: 6.26%

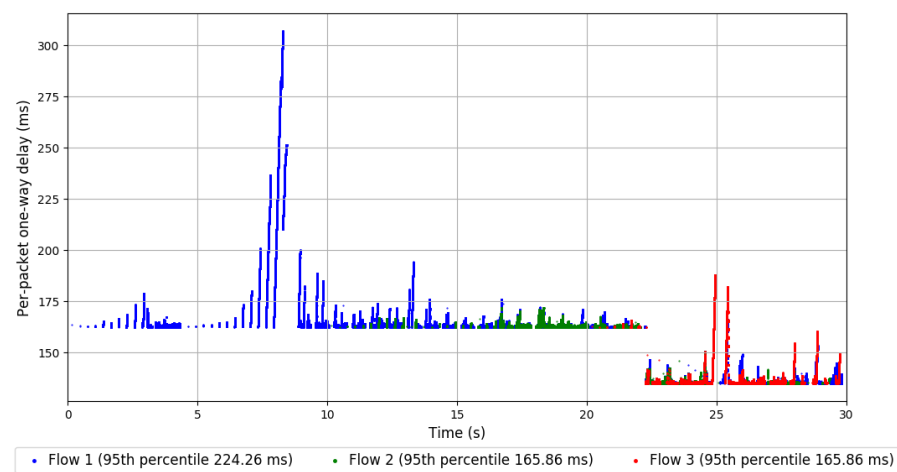
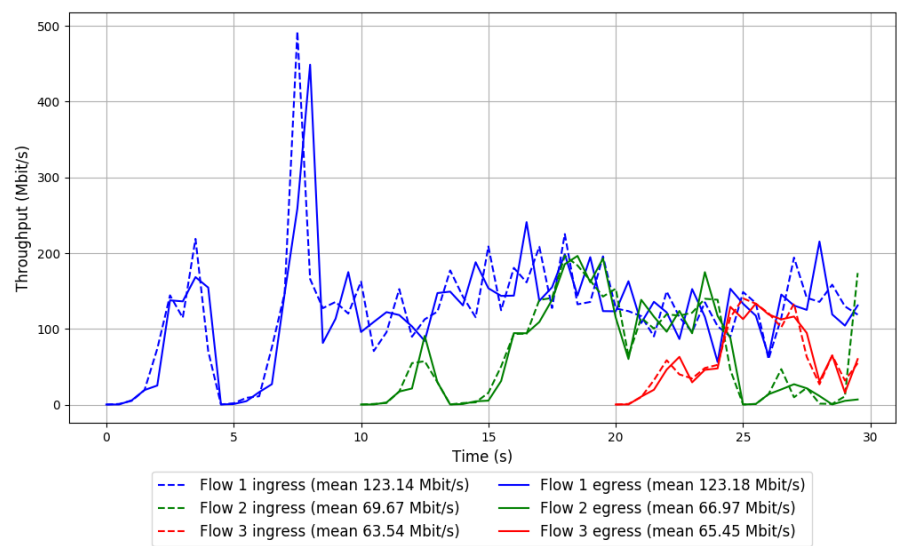
-- Flow 3:

Average throughput: 65.45 Mbit/s

95th percentile per-packet one-way delay: 165.862 ms

Loss rate: 0.84%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-01 03:13:26

End at: 2018-02-01 03:13:56

# Below is generated by plot.py at 2018-02-01 08:06:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 172.02 Mbit/s

95th percentile per-packet one-way delay: 263.428 ms

Loss rate: 2.36%

-- Flow 1:

Average throughput: 140.33 Mbit/s

95th percentile per-packet one-way delay: 272.893 ms

Loss rate: 2.55%

-- Flow 2:

Average throughput: 33.10 Mbit/s

95th percentile per-packet one-way delay: 189.765 ms

Loss rate: 2.12%

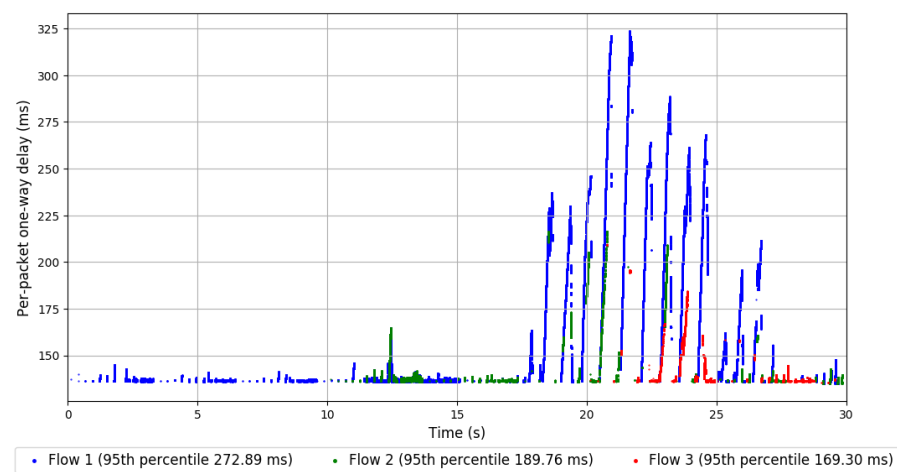
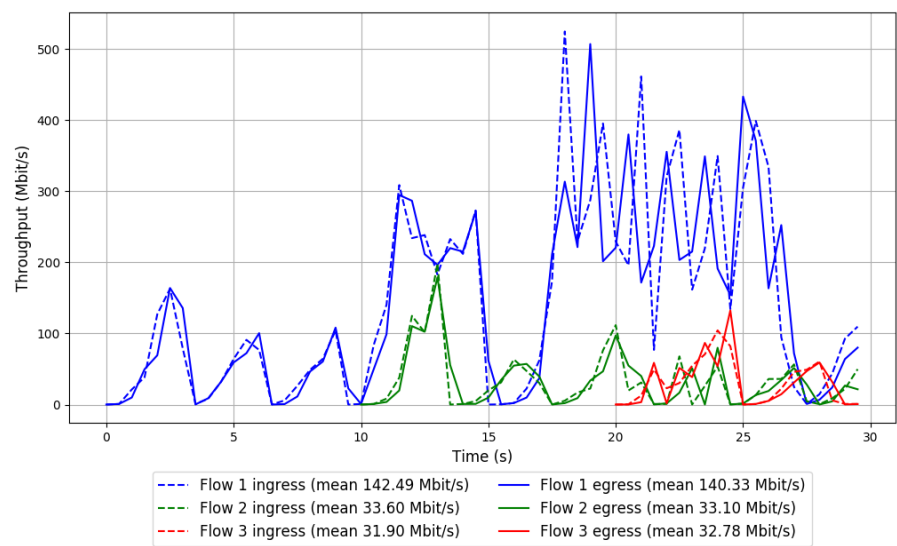
-- Flow 3:

Average throughput: 32.78 Mbit/s

95th percentile per-packet one-way delay: 169.302 ms

Loss rate: 0.15%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-01 03:31:43

End at: 2018-02-01 03:32:13

# Below is generated by plot.py at 2018-02-01 08:07:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 181.82 Mbit/s

95th percentile per-packet one-way delay: 234.628 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 238.105 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 116.19 Mbit/s

95th percentile per-packet one-way delay: 237.449 ms

Loss rate: 3.60%

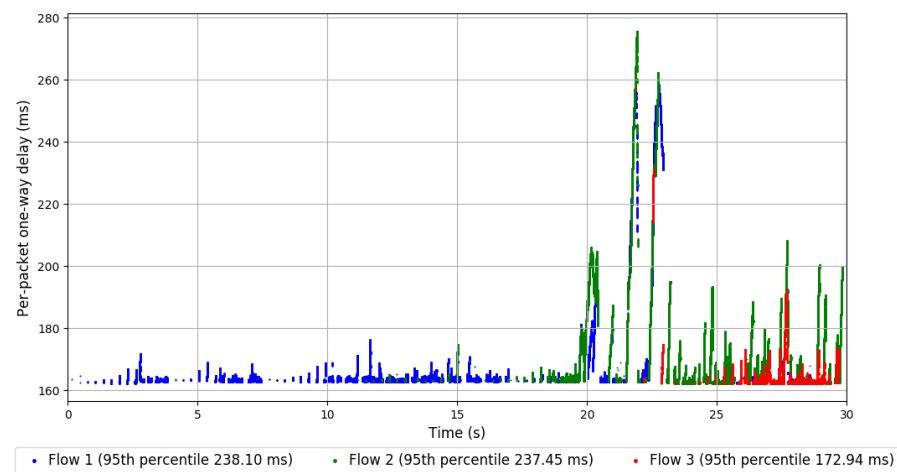
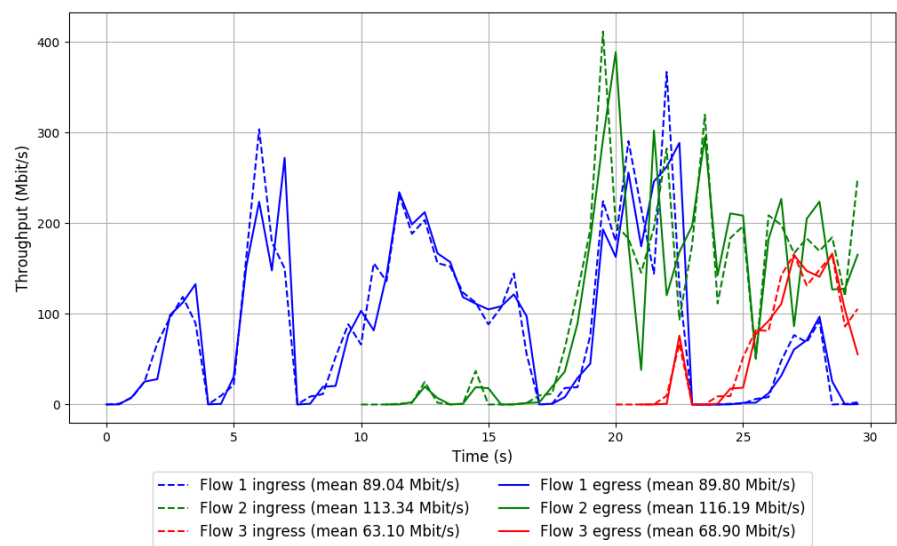
-- Flow 3:

Average throughput: 68.90 Mbit/s

95th percentile per-packet one-way delay: 172.941 ms

Loss rate: 6.46%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-01 03:50:03

End at: 2018-02-01 03:50:33

# Below is generated by plot.py at 2018-02-01 08:09:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 280.96 Mbit/s

95th percentile per-packet one-way delay: 256.585 ms

Loss rate: 3.13%

-- Flow 1:

Average throughput: 105.97 Mbit/s

95th percentile per-packet one-way delay: 234.715 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 205.69 Mbit/s

95th percentile per-packet one-way delay: 260.636 ms

Loss rate: 3.74%

-- Flow 3:

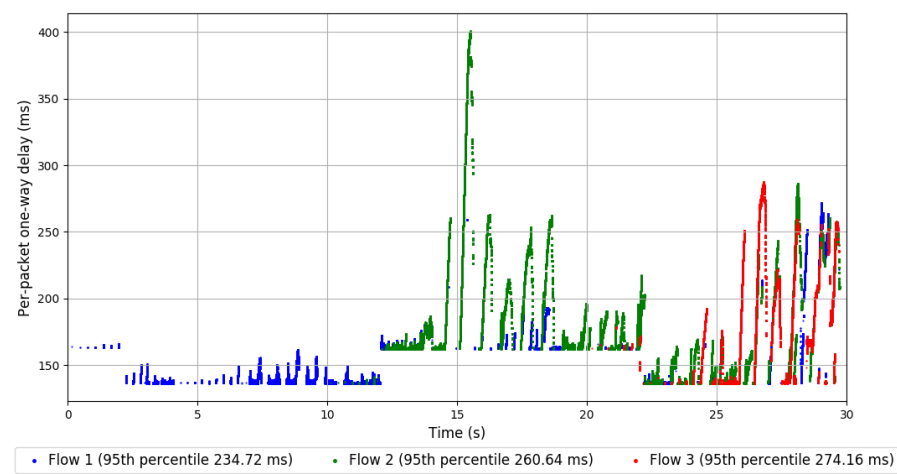
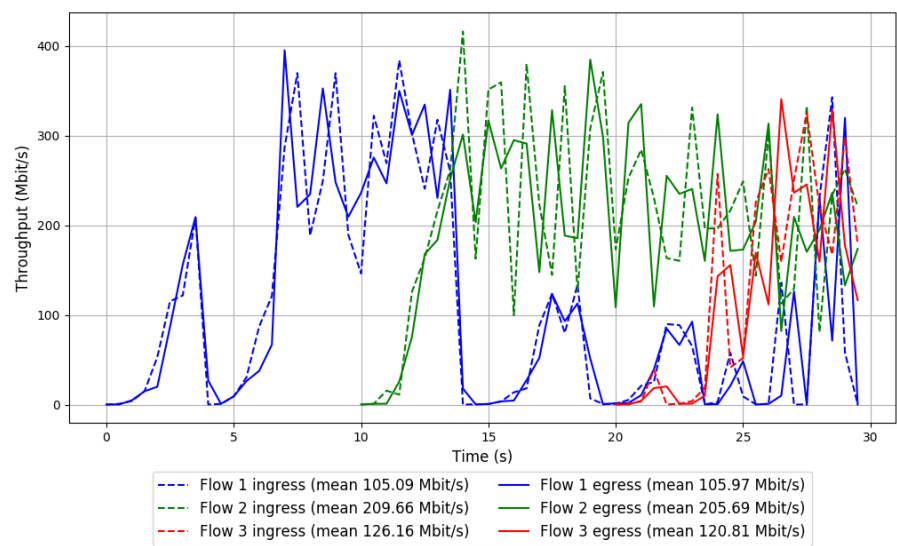
Average throughput: 120.81 Mbit/s

95th percentile per-packet one-way delay: 274.159 ms

Loss rate: 8.48%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-01 04:09:02

End at: 2018-02-01 04:09:32

# Below is generated by plot.py at 2018-02-01 08:09:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 247.24 Mbit/s

95th percentile per-packet one-way delay: 282.854 ms

Loss rate: 5.23%

-- Flow 1:

Average throughput: 161.00 Mbit/s

95th percentile per-packet one-way delay: 256.066 ms

Loss rate: 2.97%

-- Flow 2:

Average throughput: 125.18 Mbit/s

95th percentile per-packet one-way delay: 350.138 ms

Loss rate: 9.13%

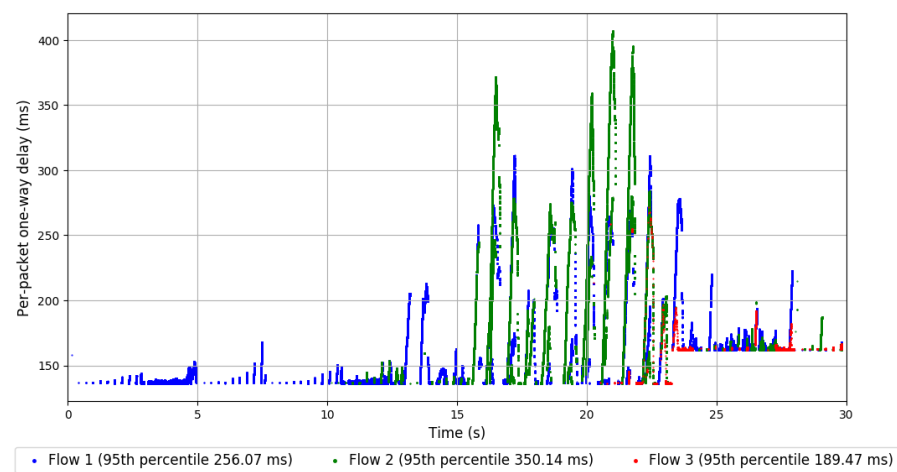
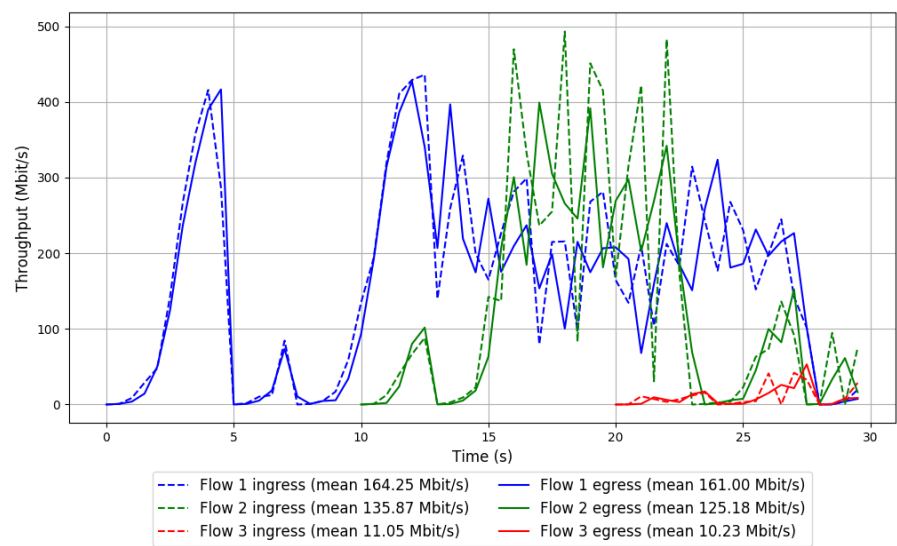
-- Flow 3:

Average throughput: 10.23 Mbit/s

95th percentile per-packet one-way delay: 189.468 ms

Loss rate: 10.72%

Run 10: Report of Verus — Data Link

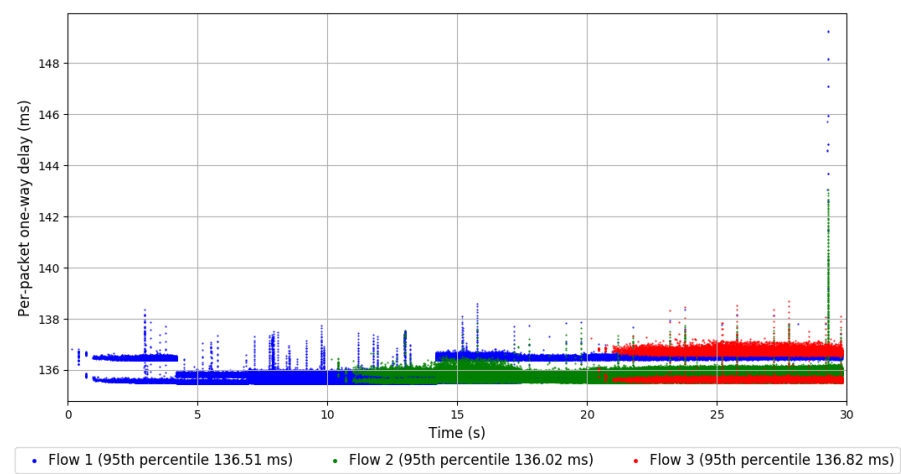
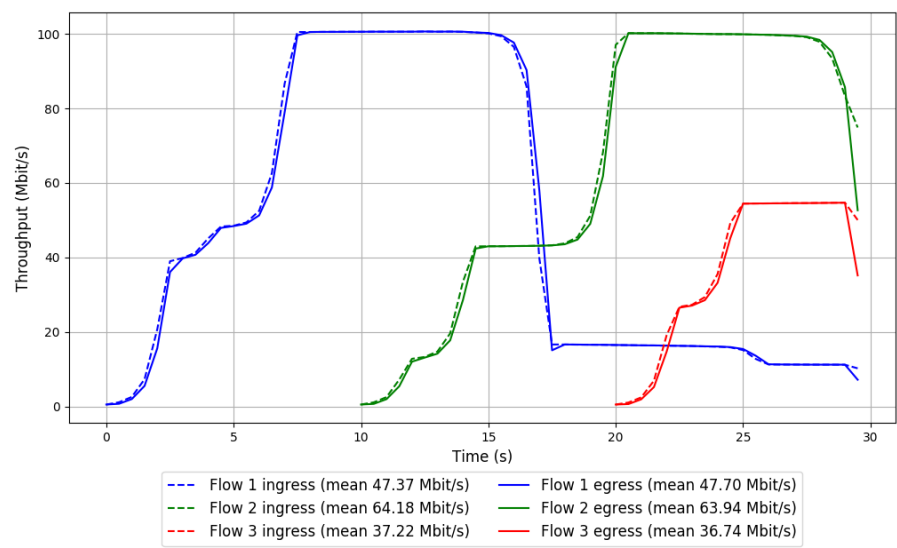


```
Run 1: Statistics of Copa

Start at: 2018-02-01 01:26:11
End at: 2018-02-01 01:26:41

# Below is generated by plot.py at 2018-02-01 08:09:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.04 Mbit/s
95th percentile per-packet one-way delay: 136.631 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 47.70 Mbit/s
95th percentile per-packet one-way delay: 136.515 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 63.94 Mbit/s
95th percentile per-packet one-way delay: 136.019 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 36.74 Mbit/s
95th percentile per-packet one-way delay: 136.823 ms
Loss rate: 4.02%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-01 01:45:25

End at: 2018-02-01 01:45:55

# Below is generated by plot.py at 2018-02-01 08:09:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.21 Mbit/s

95th percentile per-packet one-way delay: 136.848 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 136.405 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 136.243 ms

Loss rate: 1.95%

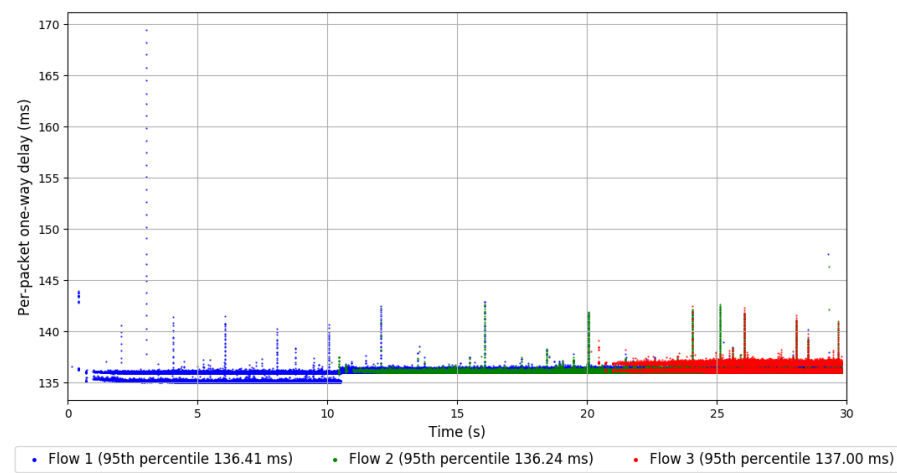
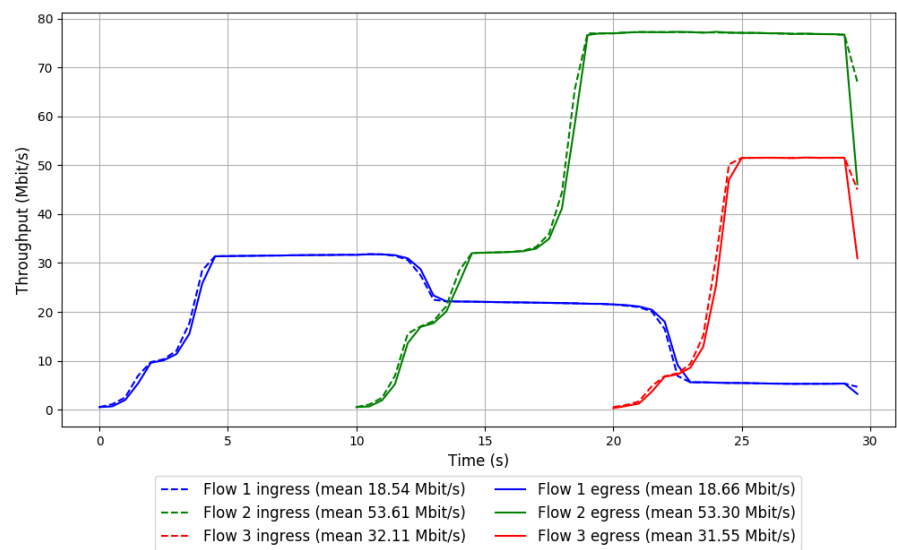
-- Flow 3:

Average throughput: 31.55 Mbit/s

95th percentile per-packet one-way delay: 137.005 ms

Loss rate: 4.44%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-01 02:03:49

End at: 2018-02-01 02:04:19

# Below is generated by plot.py at 2018-02-01 08:09:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.29 Mbit/s

95th percentile per-packet one-way delay: 162.831 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 14.72 Mbit/s

95th percentile per-packet one-way delay: 162.959 ms

Loss rate: 3.44%

-- Flow 2:

Average throughput: 55.94 Mbit/s

95th percentile per-packet one-way delay: 136.844 ms

Loss rate: 1.67%

-- Flow 3:

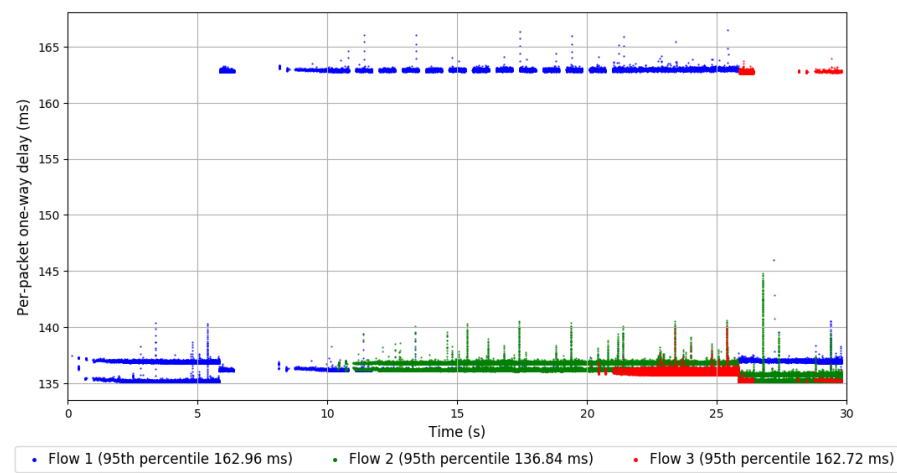
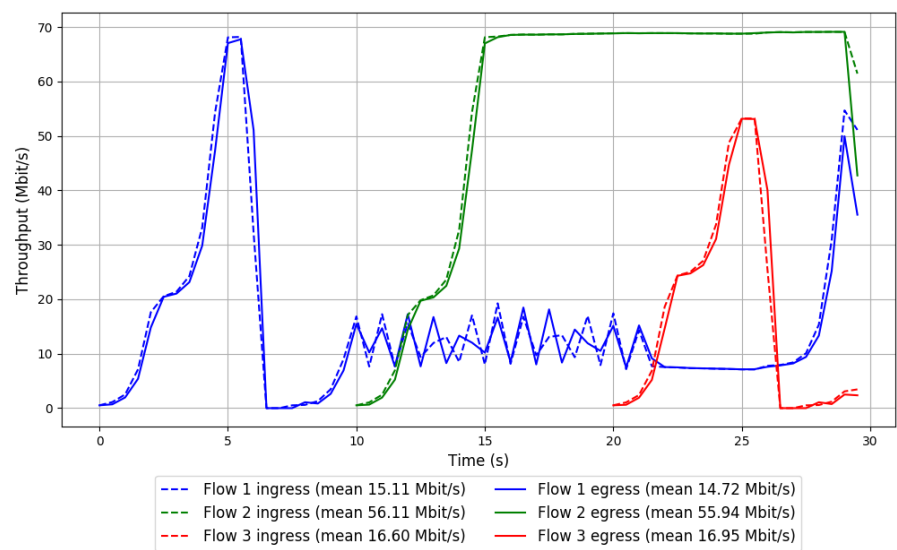
Average throughput: 16.95 Mbit/s

95th percentile per-packet one-way delay: 162.721 ms

Loss rate: 0.64%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2018-02-01 02:22:36

# Below is generated by plot.py at 2018-02-01 08:09:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.47 Mbit/s

95th percentile per-packet one-way delay: 136.869 ms

Loss rate: 1.61%

-- Flow 1:

Average throughput: 52.93 Mbit/s

95th percentile per-packet one-way delay: 136.906 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 24.99 Mbit/s

95th percentile per-packet one-way delay: 135.033 ms

Loss rate: 1.57%

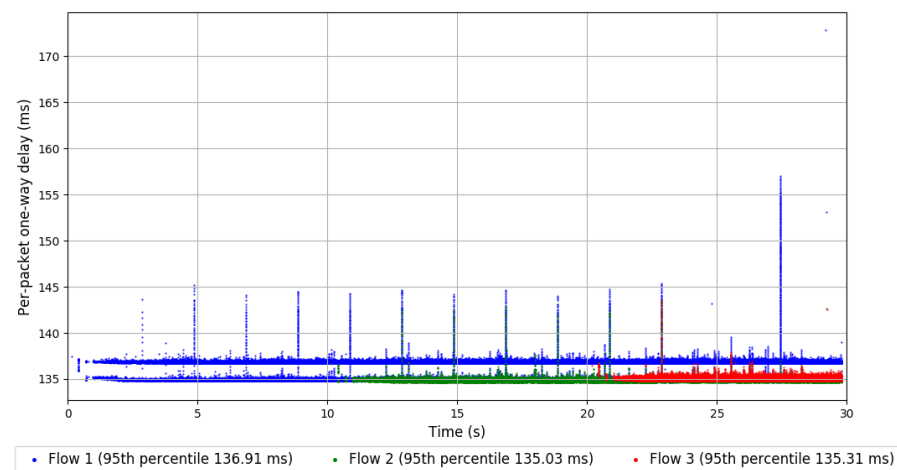
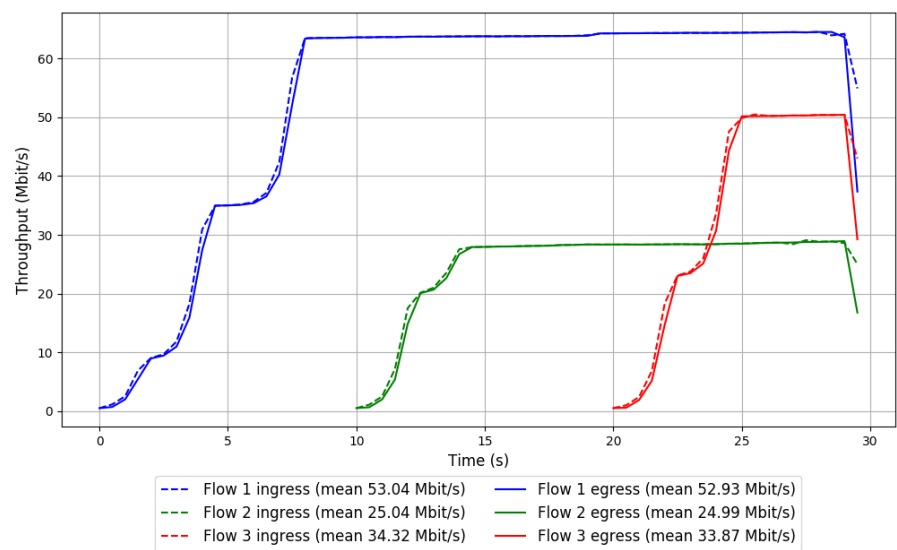
-- Flow 3:

Average throughput: 33.87 Mbit/s

95th percentile per-packet one-way delay: 135.315 ms

Loss rate: 4.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-01 02:40:16

End at: 2018-02-01 02:40:46

# Below is generated by plot.py at 2018-02-01 08:09:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 162.524 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 15.72 Mbit/s

95th percentile per-packet one-way delay: 162.521 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 19.84 Mbit/s

95th percentile per-packet one-way delay: 162.500 ms

Loss rate: 0.45%

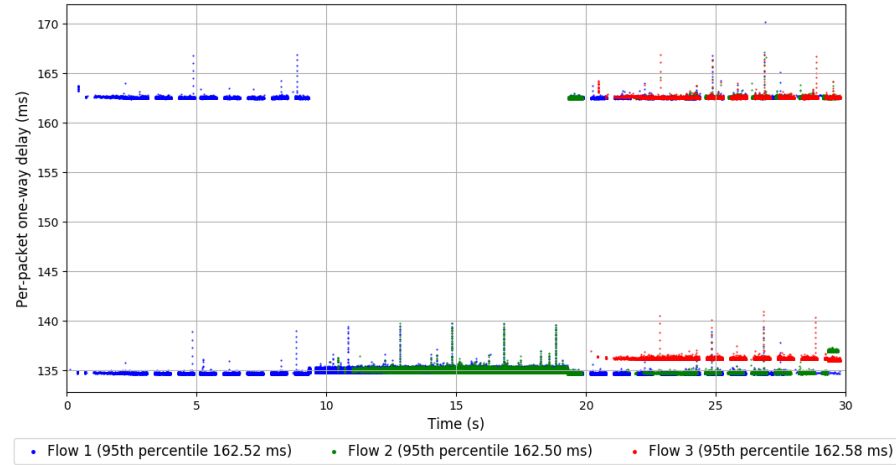
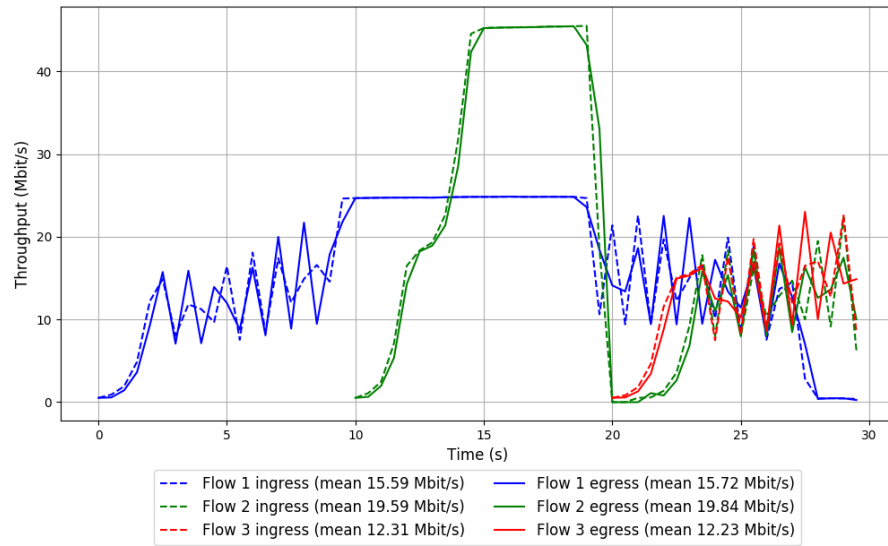
-- Flow 3:

Average throughput: 12.23 Mbit/s

95th percentile per-packet one-way delay: 162.578 ms

Loss rate: 0.77%

## Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-01 02:58:18

End at: 2018-02-01 02:58:48

# Below is generated by plot.py at 2018-02-01 08:09:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 74.60 Mbit/s

95th percentile per-packet one-way delay: 162.708 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 162.561 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 41.33 Mbit/s

95th percentile per-packet one-way delay: 162.785 ms

Loss rate: 1.55%

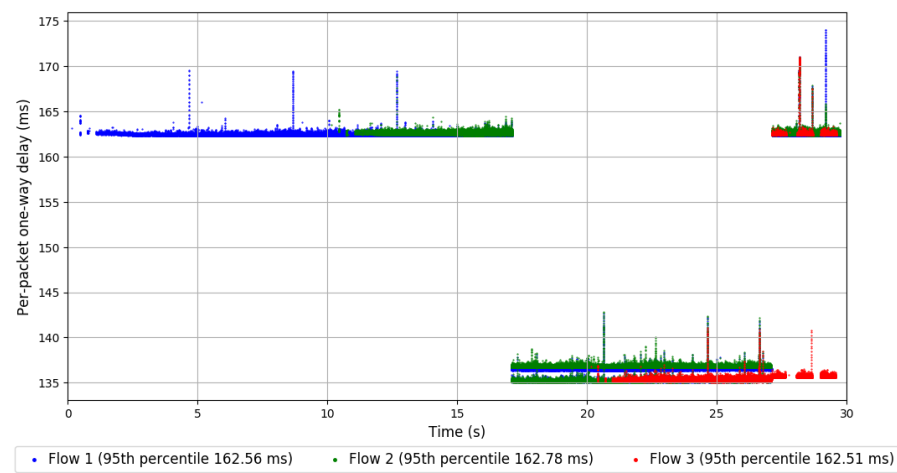
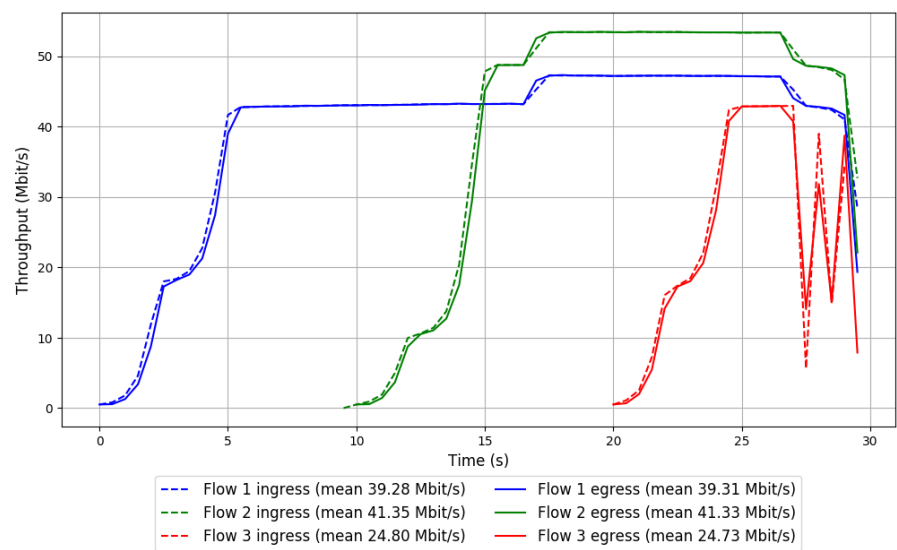
-- Flow 3:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 162.507 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-01 03:16:12

End at: 2018-02-01 03:16:42

# Below is generated by plot.py at 2018-02-01 08:09:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 32.41 Mbit/s

95th percentile per-packet one-way delay: 163.001 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 162.954 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 10.23 Mbit/s

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

Loss rate: 3.69%

-- Flow 3:

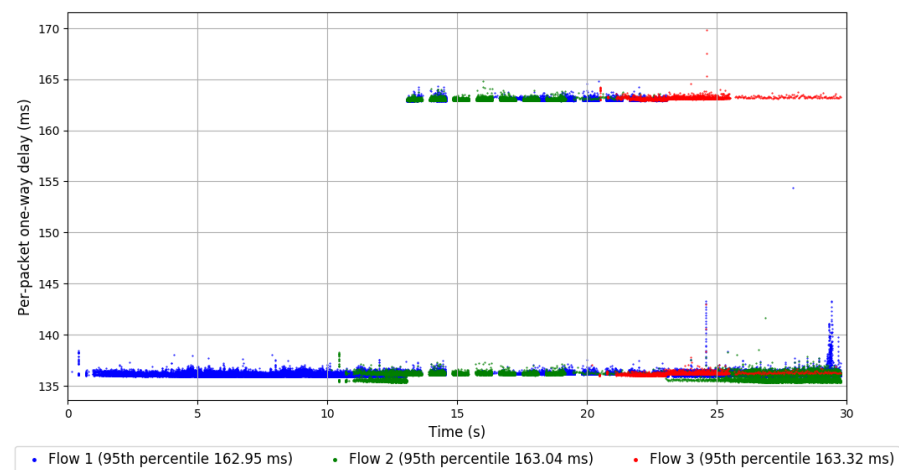
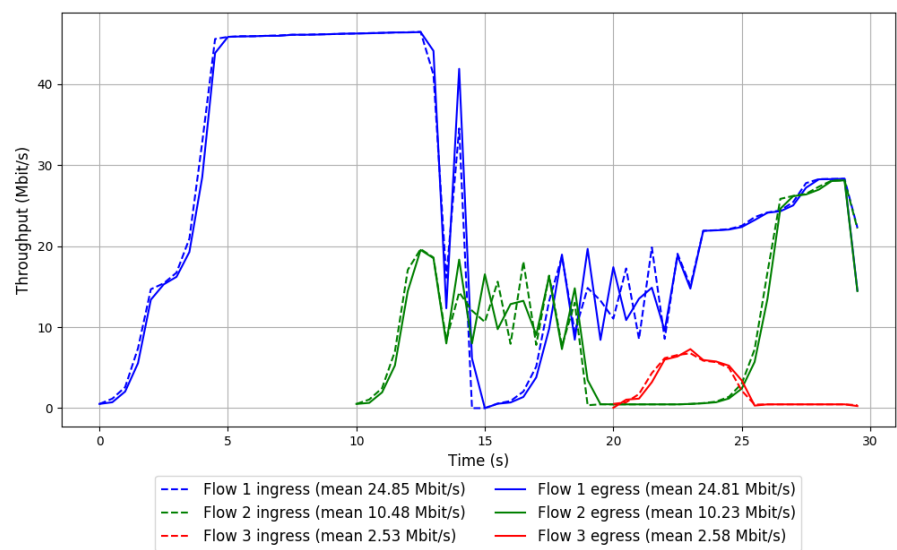
Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 163.323 ms

Loss rate: 0.47%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-01 03:34:29

End at: 2018-02-01 03:34:59

# Below is generated by plot.py at 2018-02-01 08:09:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 29.47 Mbit/s

95th percentile per-packet one-way delay: 163.140 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 163.044 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 15.39 Mbit/s

95th percentile per-packet one-way delay: 163.214 ms

Loss rate: 1.23%

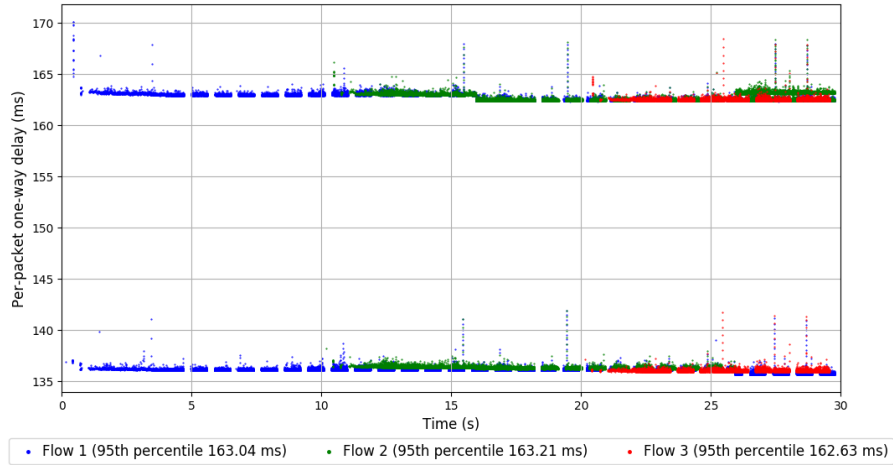
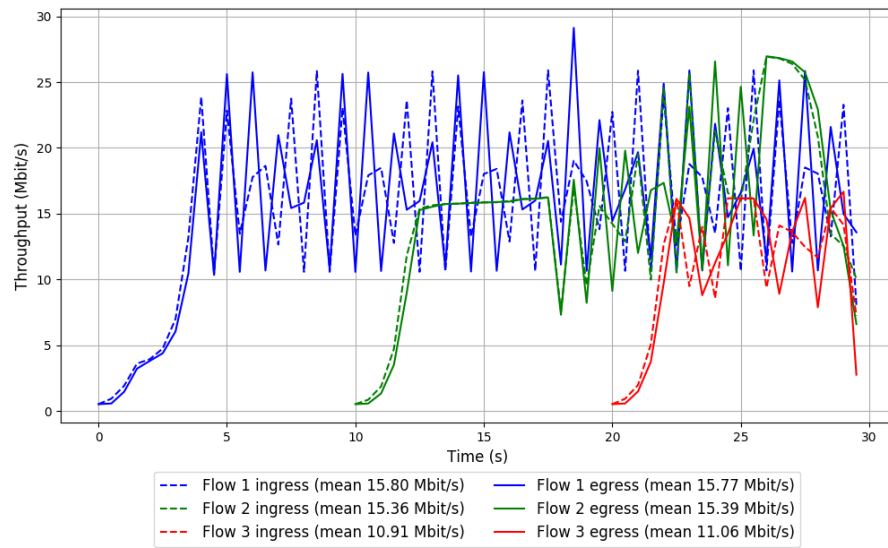
-- Flow 3:

Average throughput: 11.06 Mbit/s

95th percentile per-packet one-way delay: 162.627 ms

Loss rate: 3.35%

## Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-01 03:53:03

End at: 2018-02-01 03:53:33

# Below is generated by plot.py at 2018-02-01 08:09:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 37.93 Mbit/s

95th percentile per-packet one-way delay: 163.151 ms

Loss rate: 3.12%

-- Flow 1:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 163.160 ms

Loss rate: 2.22%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 164.208 ms

Loss rate: 0.46%

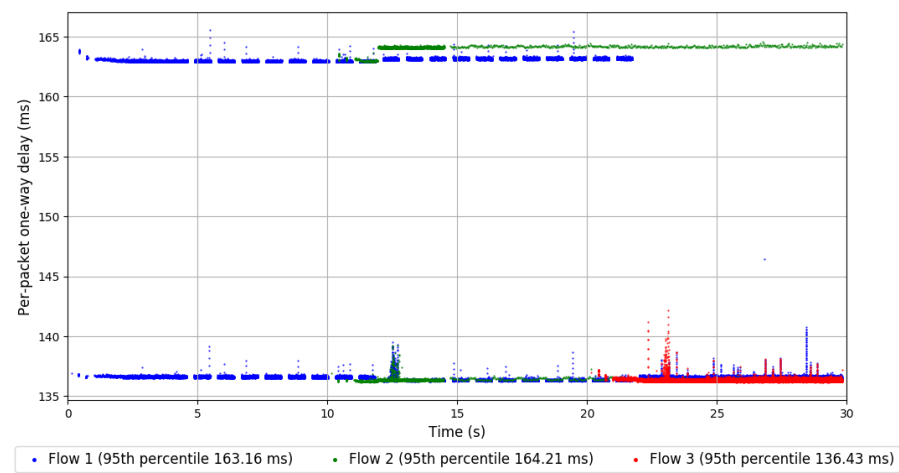
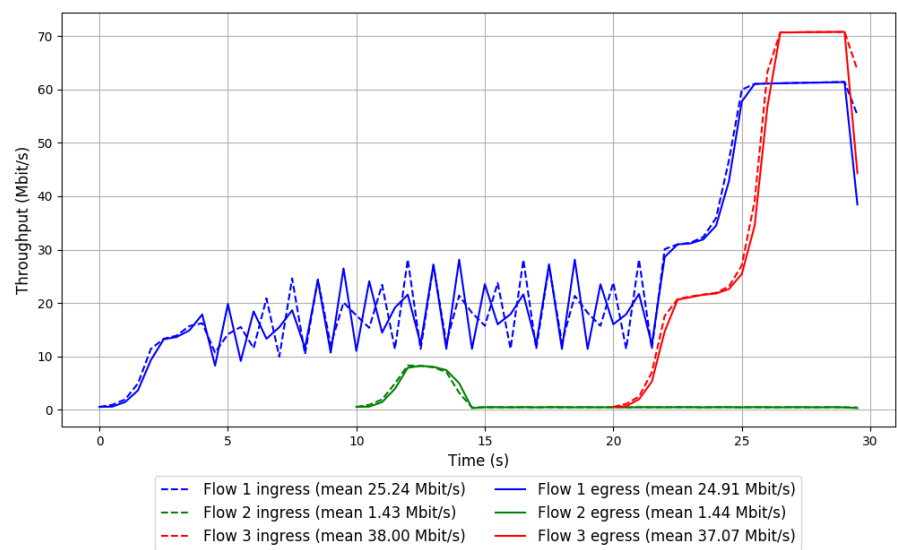
-- Flow 3:

Average throughput: 37.07 Mbit/s

95th percentile per-packet one-way delay: 136.433 ms

Loss rate: 5.12%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-01 04:11:57

End at: 2018-02-01 04:12:27

# Below is generated by plot.py at 2018-02-01 08:10:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.57 Mbit/s

95th percentile per-packet one-way delay: 162.977 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 12.67 Mbit/s

95th percentile per-packet one-way delay: 162.996 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 87.37 Mbit/s

95th percentile per-packet one-way delay: 162.973 ms

Loss rate: 1.75%

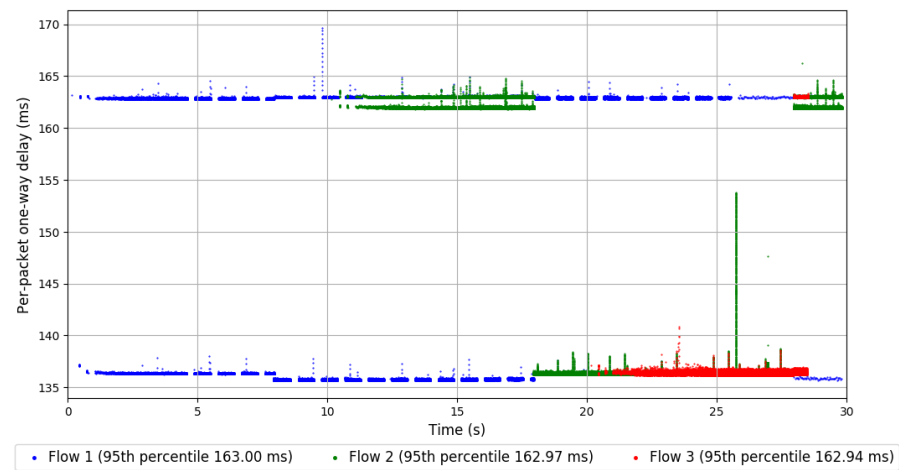
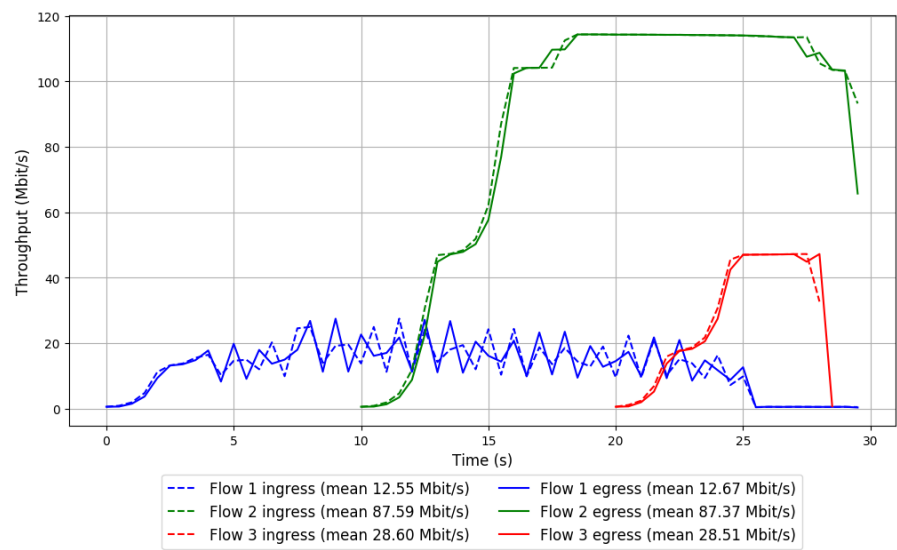
-- Flow 3:

Average throughput: 28.51 Mbit/s

95th percentile per-packet one-way delay: 162.939 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



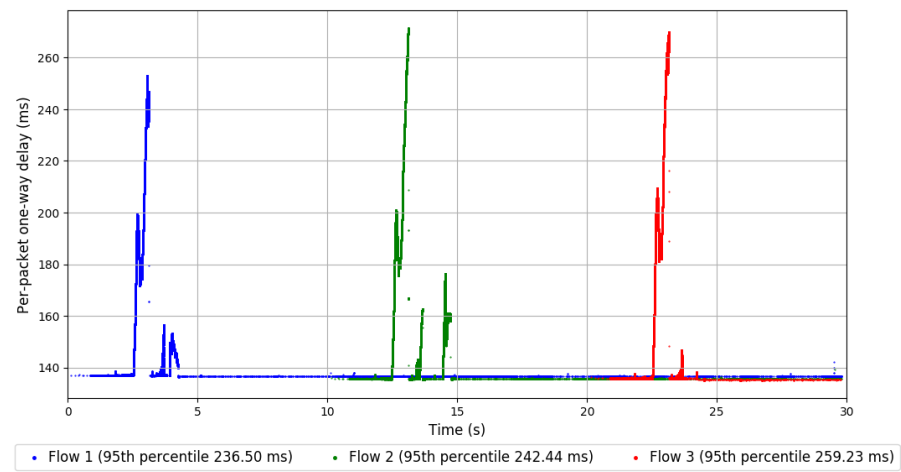
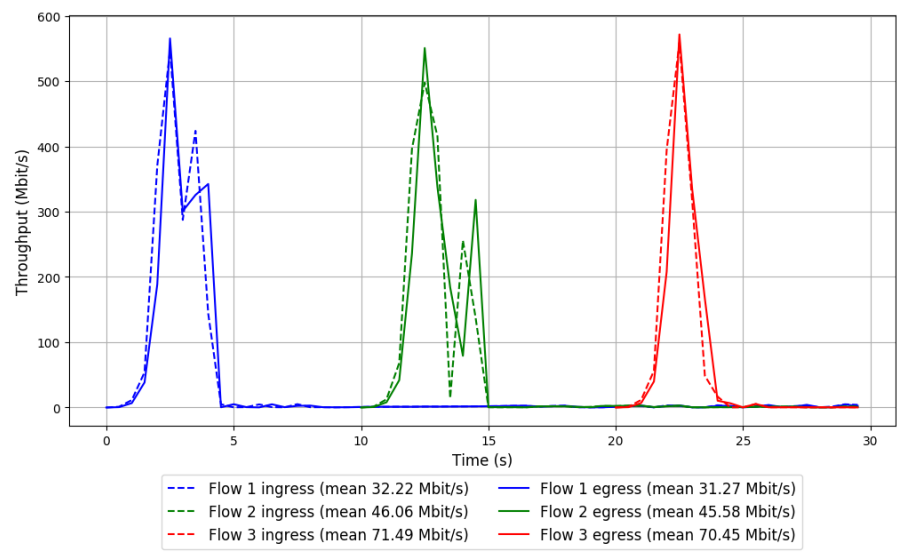
```
Run 1: Statistics of FillP

Start at: 2018-02-01 01:29:41
End at: 2018-02-01 01:30:11

# Below is generated by plot.py at 2018-02-01 08:11:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.30 Mbit/s
95th percentile per-packet one-way delay: 244.274 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 236.498 ms
Loss rate: 3.81%
-- Flow 2:
Average throughput: 45.58 Mbit/s
95th percentile per-packet one-way delay: 242.443 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 70.45 Mbit/s
95th percentile per-packet one-way delay: 259.233 ms
Loss rate: 4.23%
```



Run 1: Report of FillP — Data Link

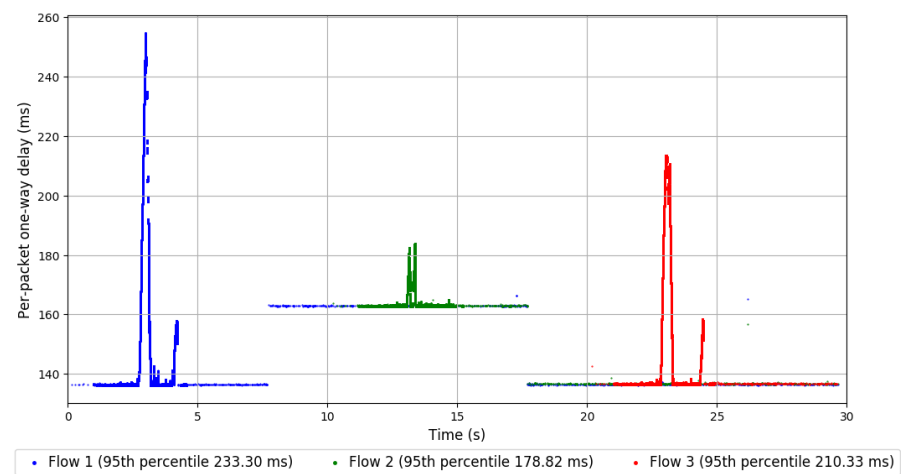
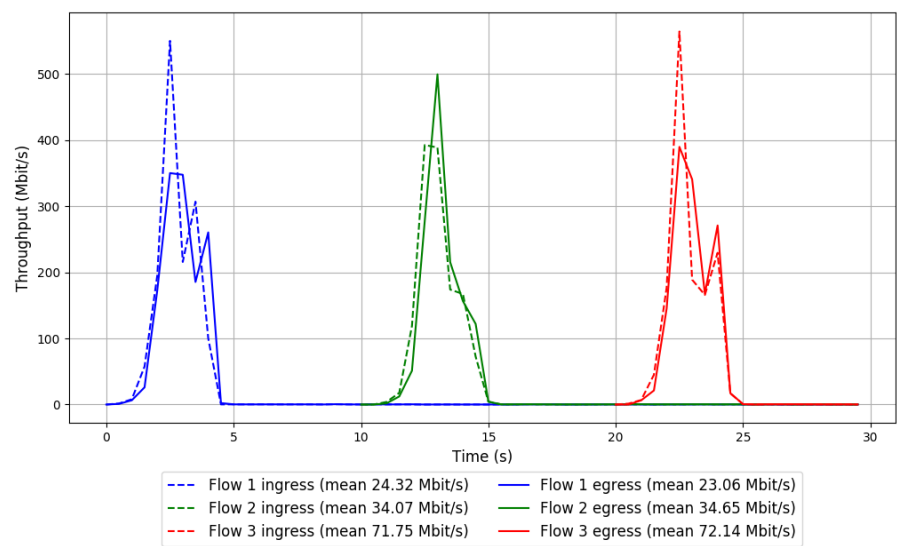


```
Run 2: Statistics of FillP

Start at: 2018-02-01 01:48:47
End at: 2018-02-01 01:49:17

# Below is generated by plot.py at 2018-02-01 08:11:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 209.838 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 233.300 ms
Loss rate: 5.77%
-- Flow 2:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 178.819 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.14 Mbit/s
95th percentile per-packet one-way delay: 210.334 ms
Loss rate: 2.63%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-01 02:07:11

End at: 2018-02-01 02:07:41

# Below is generated by plot.py at 2018-02-01 08:11:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.51 Mbit/s

95th percentile per-packet one-way delay: 270.620 ms

Loss rate: 7.01%

-- Flow 1:

Average throughput: 23.41 Mbit/s

95th percentile per-packet one-way delay: 263.215 ms

Loss rate: 6.60%

-- Flow 2:

Average throughput: 49.25 Mbit/s

95th percentile per-packet one-way delay: 245.328 ms

Loss rate: 0.02%

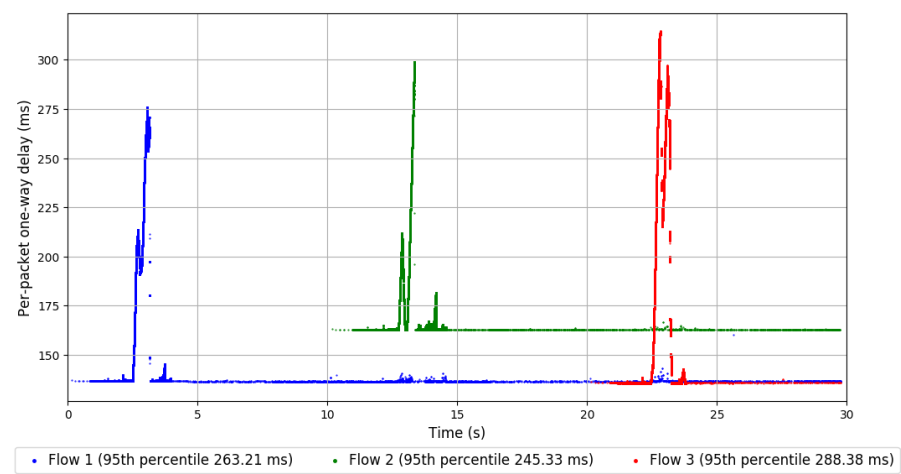
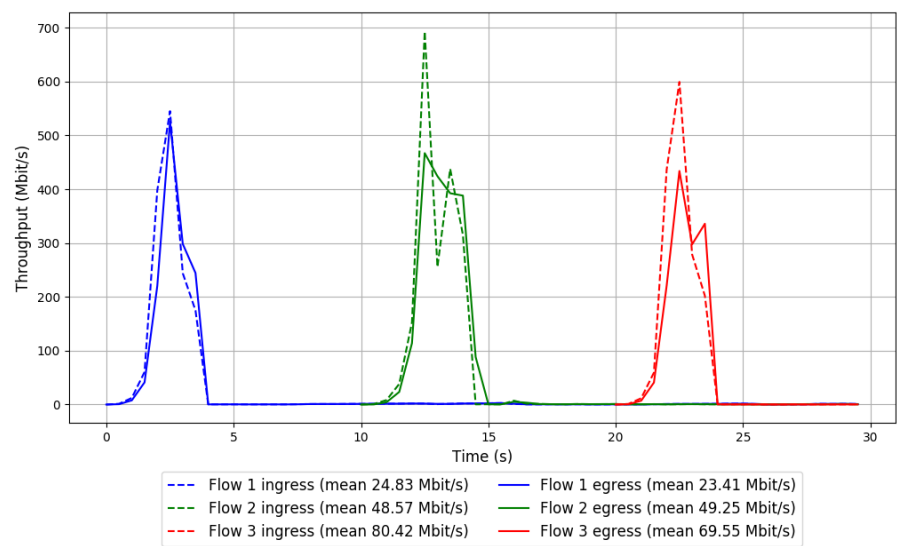
-- Flow 3:

Average throughput: 69.55 Mbit/s

95th percentile per-packet one-way delay: 288.382 ms

Loss rate: 15.85%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-01 02:25:30

End at: 2018-02-01 02:26:00

# Below is generated by plot.py at 2018-02-01 08:11:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 68.28 Mbit/s

95th percentile per-packet one-way delay: 204.075 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 24.08 Mbit/s

95th percentile per-packet one-way delay: 225.100 ms

Loss rate: 3.26%

-- Flow 2:

Average throughput: 33.50 Mbit/s

95th percentile per-packet one-way delay: 144.365 ms

Loss rate: 0.05%

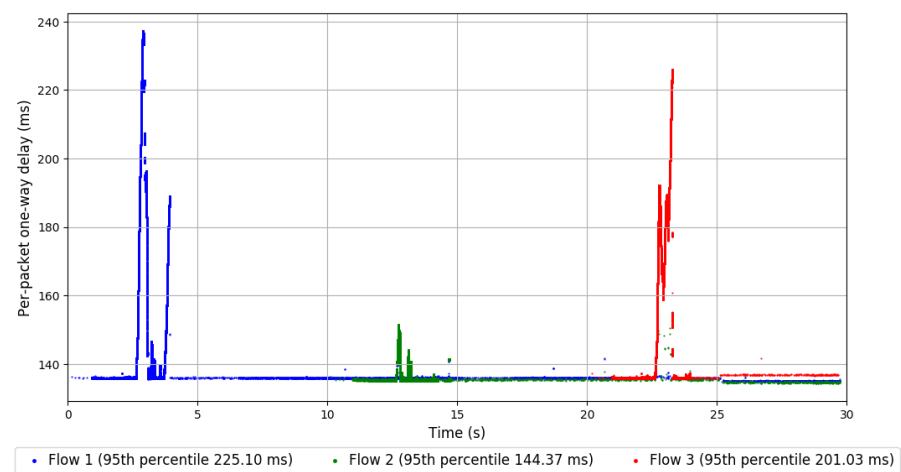
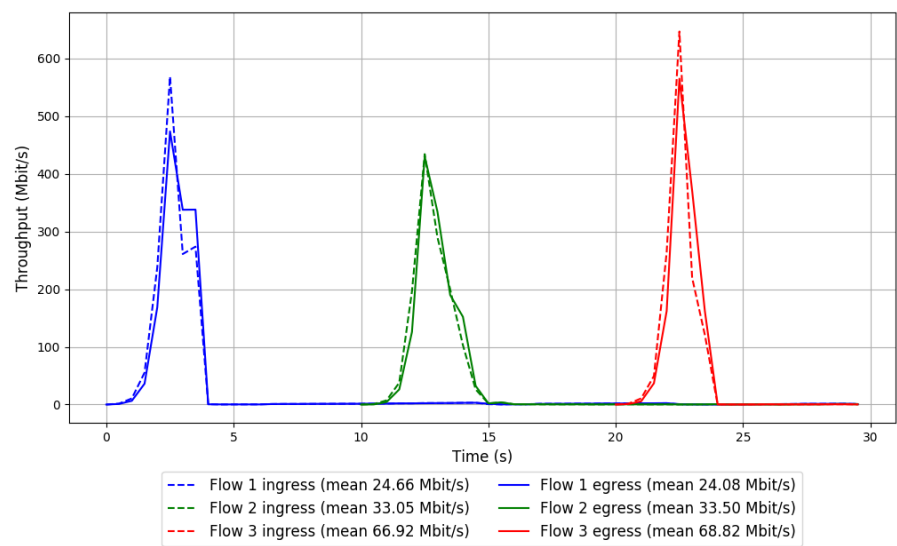
-- Flow 3:

Average throughput: 68.82 Mbit/s

95th percentile per-packet one-way delay: 201.033 ms

Loss rate: 0.75%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-01 02:43:42

End at: 2018-02-01 02:44:12

# Below is generated by plot.py at 2018-02-01 08:11:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.91 Mbit/s

95th percentile per-packet one-way delay: 189.719 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 28.49 Mbit/s

95th percentile per-packet one-way delay: 261.091 ms

Loss rate: 3.98%

-- Flow 2:

Average throughput: 32.75 Mbit/s

95th percentile per-packet one-way delay: 184.055 ms

Loss rate: 0.01%

-- Flow 3:

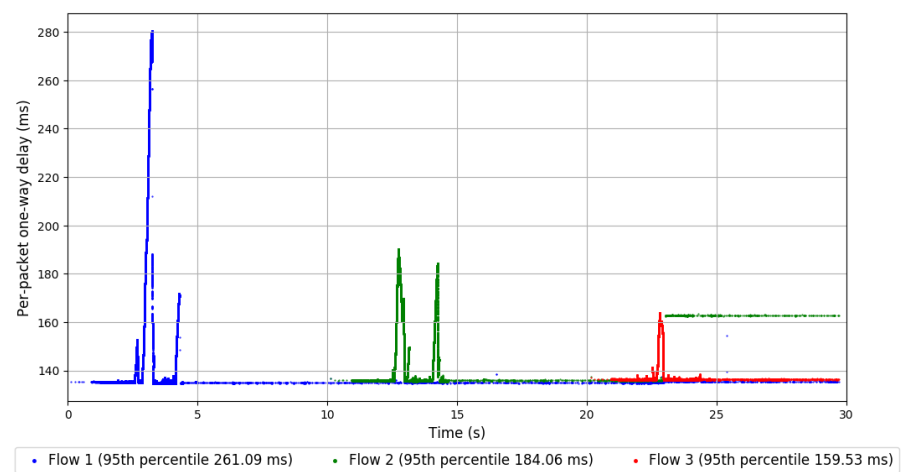
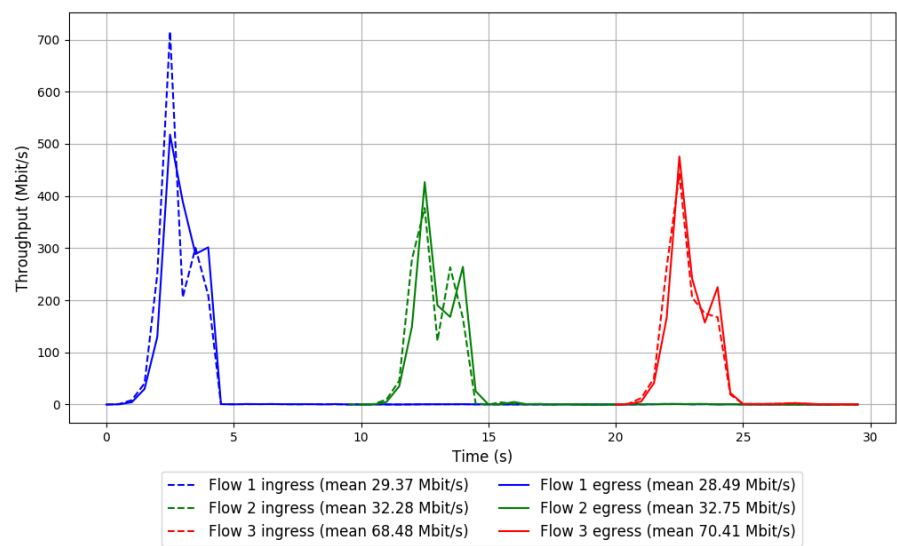
Average throughput: 70.41 Mbit/s

95th percentile per-packet one-way delay: 159.535 ms

Loss rate: 0.02%



Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-01 03:01:43

End at: 2018-02-01 03:02:13

# Below is generated by plot.py at 2018-02-01 08:11:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 69.09 Mbit/s

95th percentile per-packet one-way delay: 190.189 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 22.76 Mbit/s

95th percentile per-packet one-way delay: 152.659 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 34.54 Mbit/s

95th percentile per-packet one-way delay: 148.031 ms

Loss rate: 0.01%

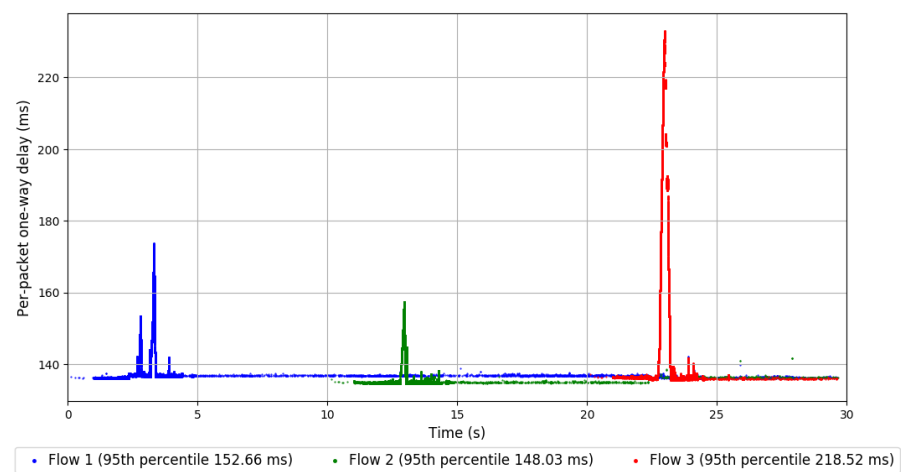
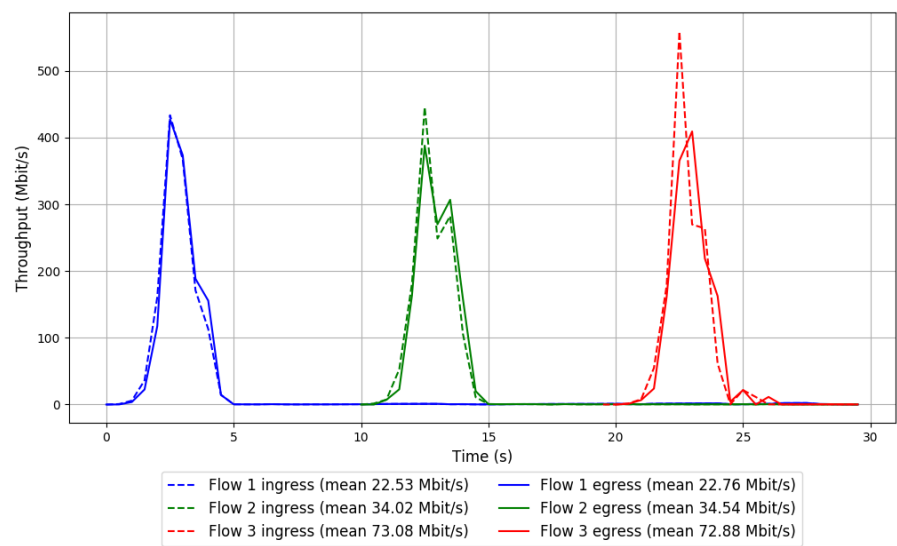
-- Flow 3:

Average throughput: 72.88 Mbit/s

95th percentile per-packet one-way delay: 218.516 ms

Loss rate: 3.07%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-01 03:19:36

End at: 2018-02-01 03:20:06

# Below is generated by plot.py at 2018-02-01 08:11:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.29 Mbit/s

95th percentile per-packet one-way delay: 245.907 ms

Loss rate: 2.72%

-- Flow 1:

Average throughput: 24.96 Mbit/s

95th percentile per-packet one-way delay: 255.489 ms

Loss rate: 2.56%

-- Flow 2:

Average throughput: 35.39 Mbit/s

95th percentile per-packet one-way delay: 172.761 ms

Loss rate: 0.04%

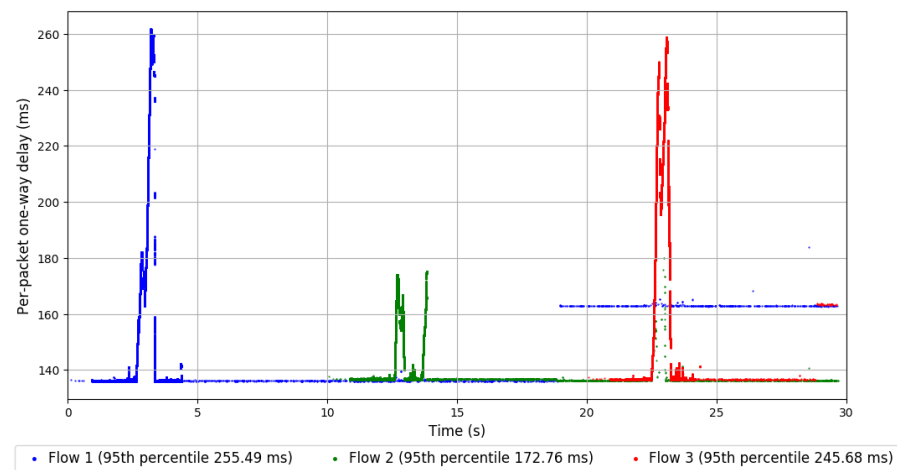
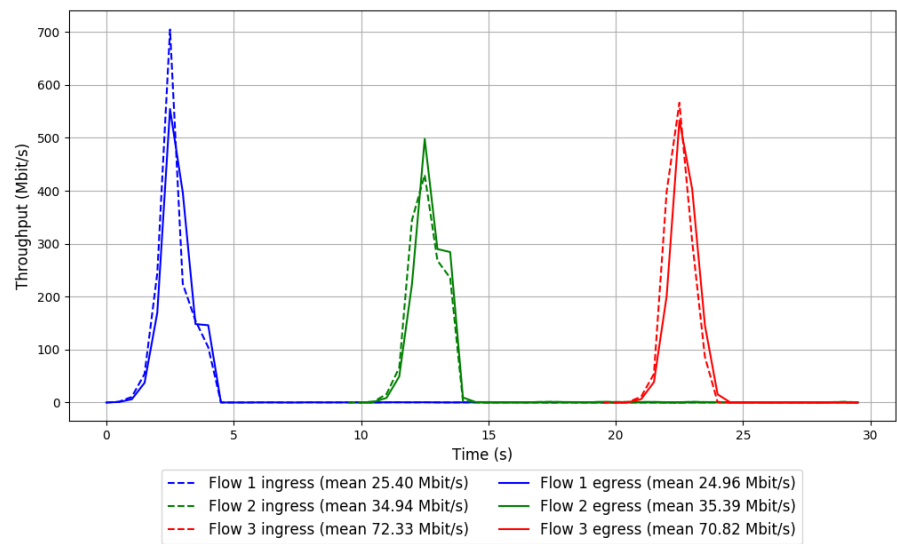
-- Flow 3:

Average throughput: 70.82 Mbit/s

95th percentile per-packet one-way delay: 245.681 ms

Loss rate: 5.50%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-01 03:37:56

End at: 2018-02-01 03:38:26

# Below is generated by plot.py at 2018-02-01 08:12:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.32 Mbit/s

95th percentile per-packet one-way delay: 214.947 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 21.14 Mbit/s

95th percentile per-packet one-way delay: 233.383 ms

Loss rate: 5.45%

-- Flow 2:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 206.234 ms

Loss rate: 0.02%

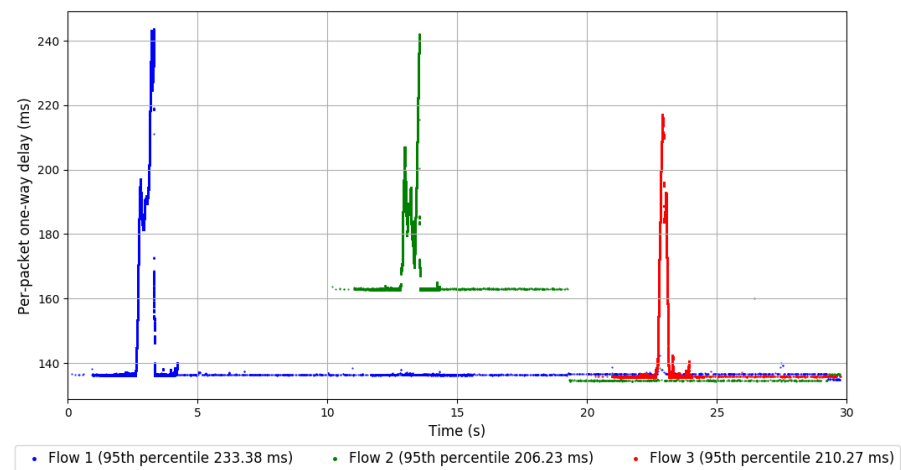
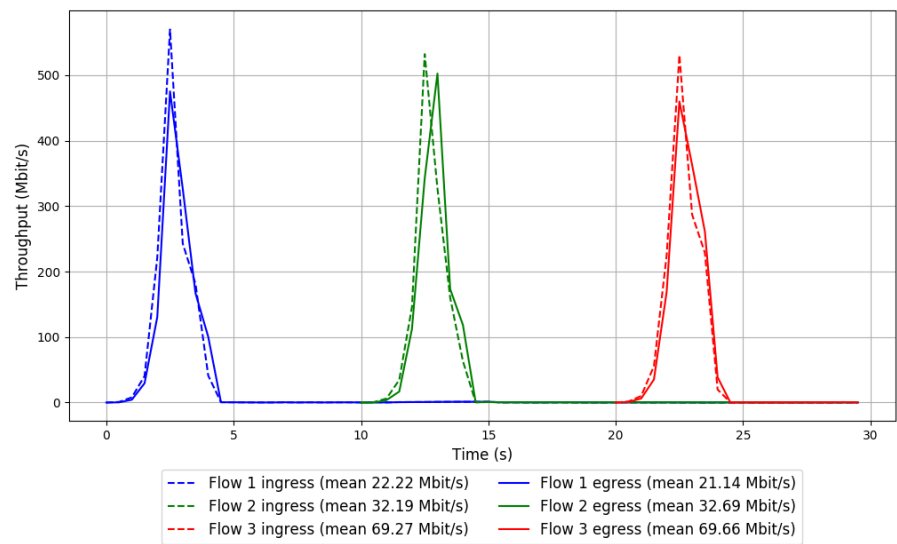
-- Flow 3:

Average throughput: 69.66 Mbit/s

95th percentile per-packet one-way delay: 210.268 ms

Loss rate: 1.80%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-01 03:56:37

End at: 2018-02-01 03:57:07

# Below is generated by plot.py at 2018-02-01 08:12:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.07 Mbit/s

95th percentile per-packet one-way delay: 238.555 ms

Loss rate: 5.00%

-- Flow 1:

Average throughput: 22.98 Mbit/s

95th percentile per-packet one-way delay: 237.314 ms

Loss rate: 4.67%

-- Flow 2:

Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 255.670 ms

Loss rate: 3.91%

-- Flow 3:

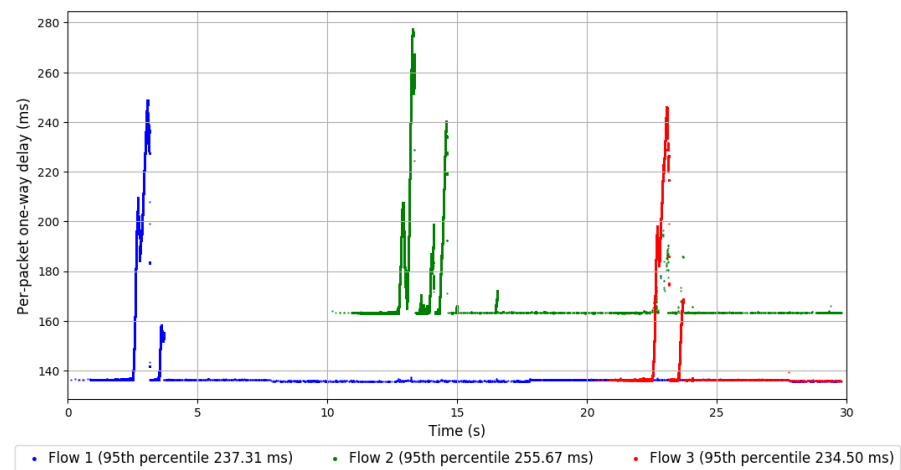
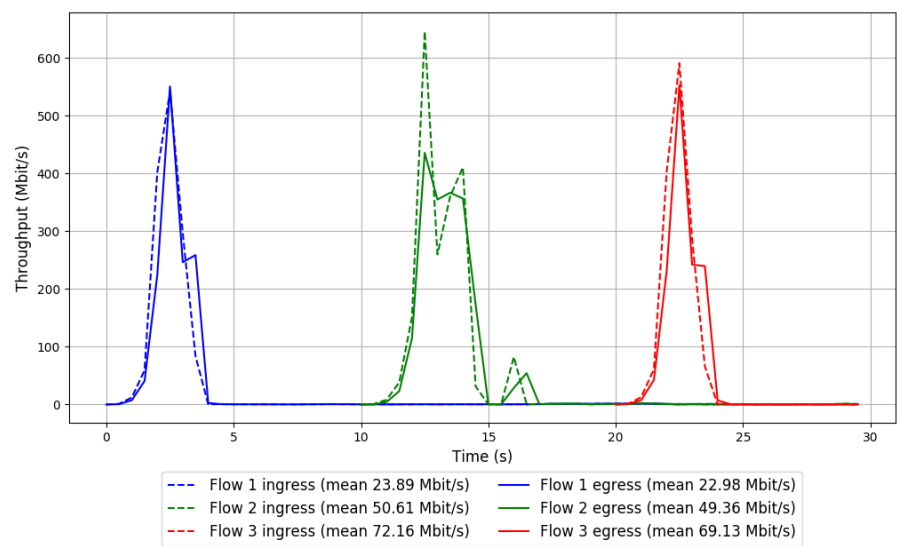
Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 234.501 ms

Loss rate: 6.87%



Run 9: Report of FillP — Data Link

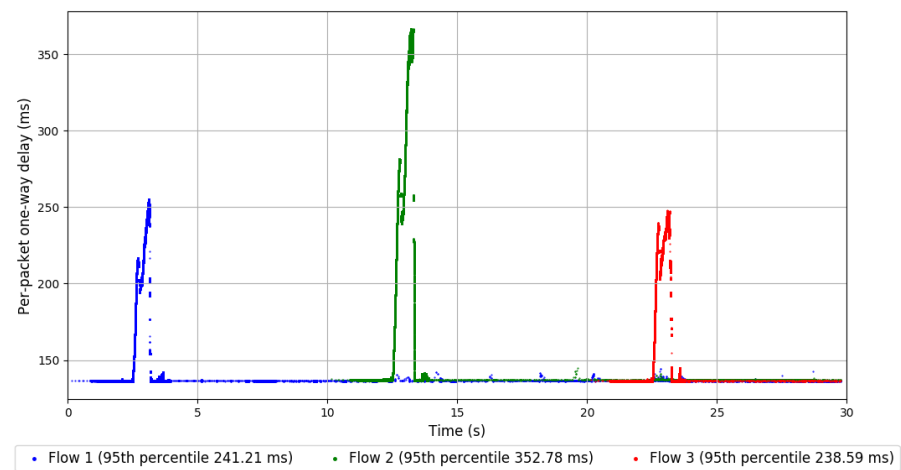
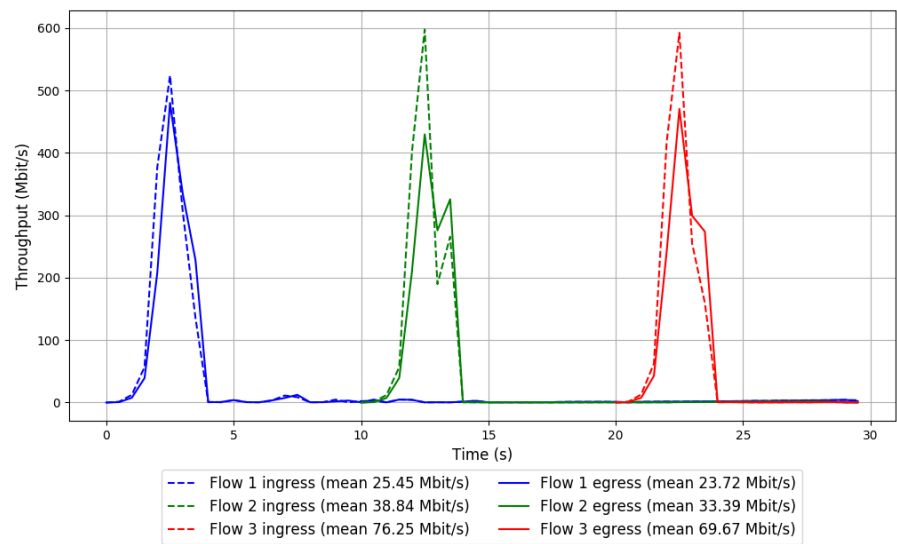


```
Run 10: Statistics of FillP

Start at: 2018-02-01 04:15:36
End at: 2018-02-01 04:16:06

# Below is generated by plot.py at 2018-02-01 08:12:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.43 Mbit/s
95th percentile per-packet one-way delay: 280.346 ms
Loss rate: 11.31%
-- Flow 1:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 241.207 ms
Loss rate: 7.65%
-- Flow 2:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 352.777 ms
Loss rate: 15.29%
-- Flow 3:
Average throughput: 69.67 Mbit/s
95th percentile per-packet one-way delay: 238.588 ms
Loss rate: 10.92%
```

Run 10: Report of FillP — Data Link

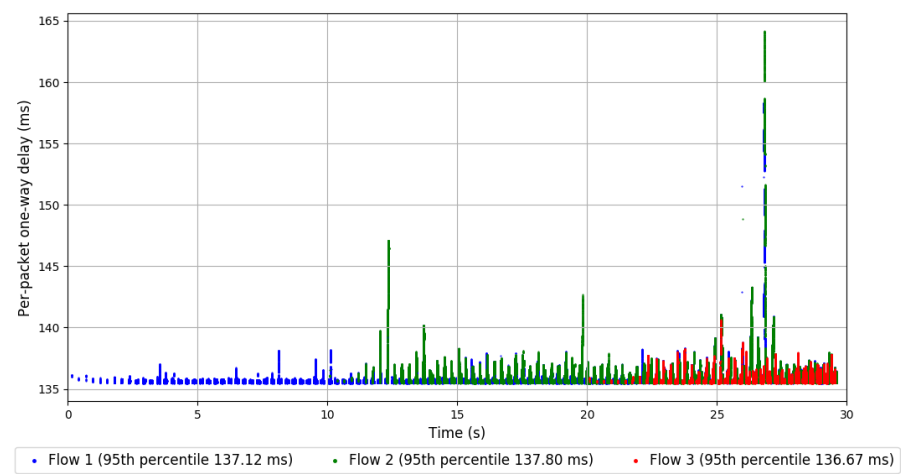
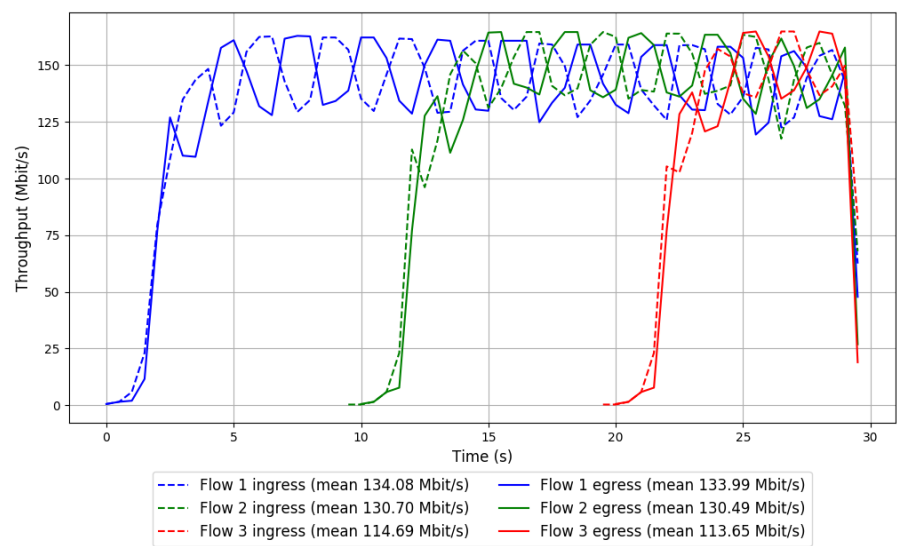


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-01 01:32:54
End at: 2018-02-01 01:33:24

# Below is generated by plot.py at 2018-02-01 08:14:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.78 Mbit/s
95th percentile per-packet one-way delay: 137.223 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 133.99 Mbit/s
95th percentile per-packet one-way delay: 137.125 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 130.49 Mbit/s
95th percentile per-packet one-way delay: 137.800 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 113.65 Mbit/s
95th percentile per-packet one-way delay: 136.671 ms
Loss rate: 3.69%
```

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

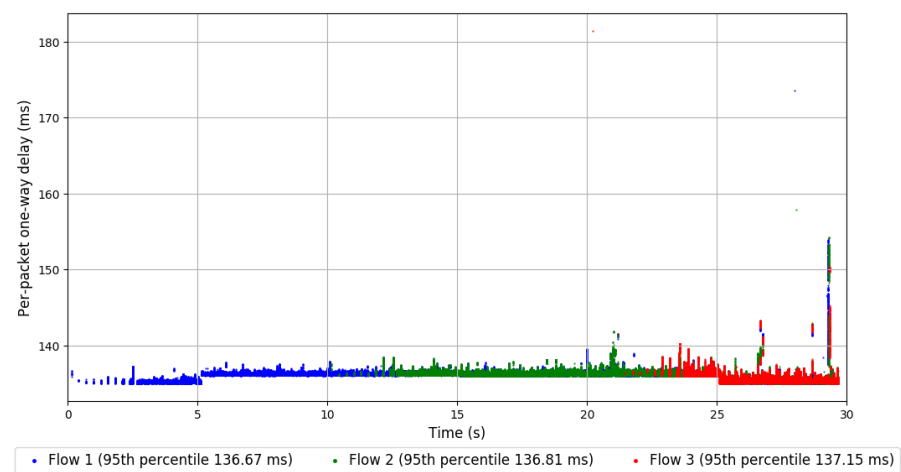
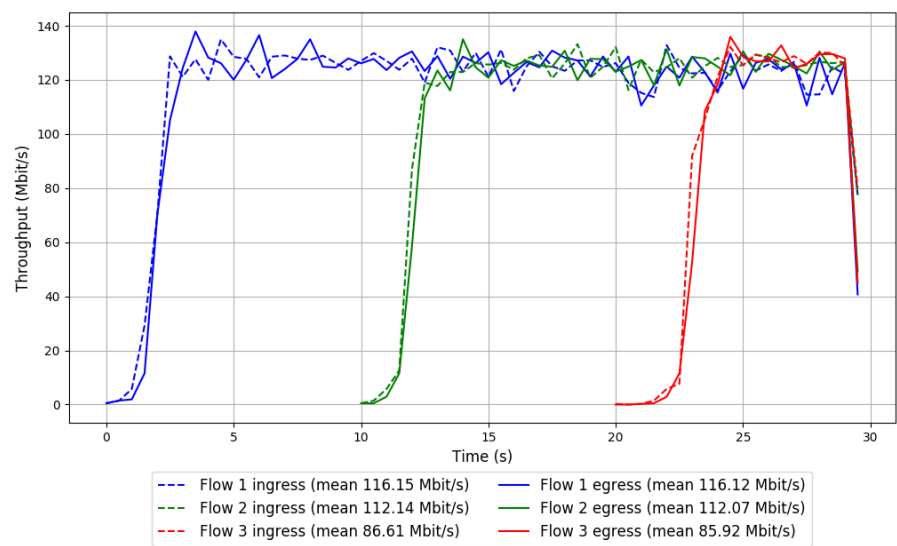


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-01 01:51:40
End at: 2018-02-01 01:52:10

# Below is generated by plot.py at 2018-02-01 08:14:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 217.72 Mbit/s
95th percentile per-packet one-way delay: 136.750 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 116.12 Mbit/s
95th percentile per-packet one-way delay: 136.672 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 112.07 Mbit/s
95th percentile per-packet one-way delay: 136.805 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 85.92 Mbit/s
95th percentile per-packet one-way delay: 137.153 ms
Loss rate: 4.00%
```

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



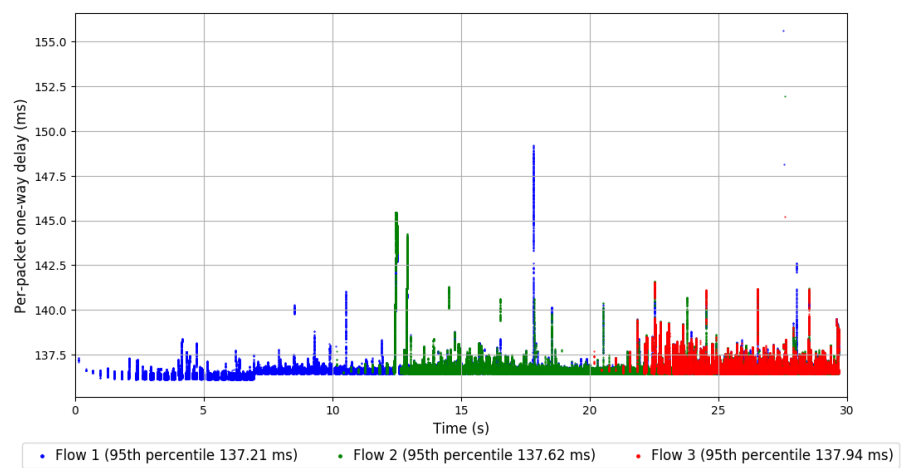
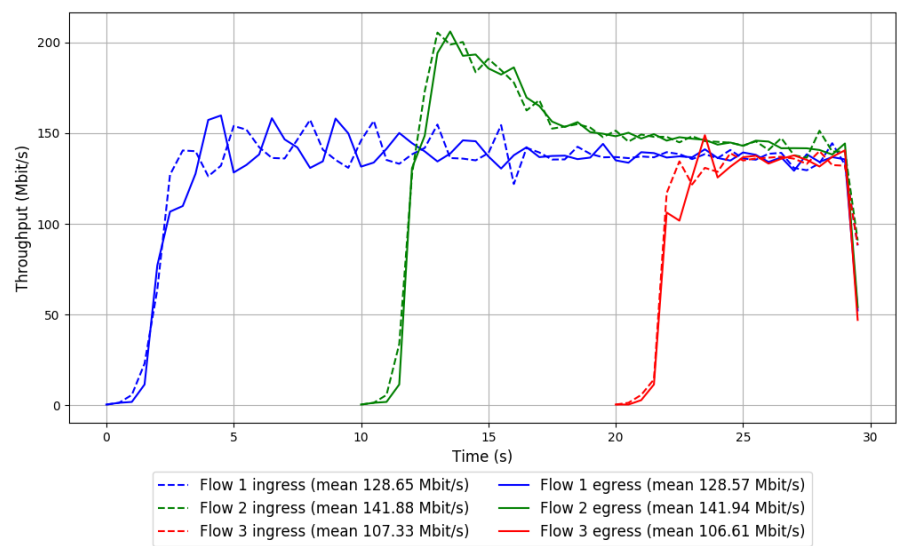
```
Run 3: Statistics of Indigo-1-32

Start at: 2018-02-01 02:10:08
End at: 2018-02-01 02:10:38

# Below is generated by plot.py at 2018-02-01 08:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.64 Mbit/s
95th percentile per-packet one-way delay: 137.482 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 128.57 Mbit/s
95th percentile per-packet one-way delay: 137.207 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 141.94 Mbit/s
95th percentile per-packet one-way delay: 137.621 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 106.61 Mbit/s
95th percentile per-packet one-way delay: 137.945 ms
Loss rate: 3.43%
```



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



Run 4: Statistics of Indigo-1-32

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

End at: 2018-02-01 02:28:49

# Below is generated by plot.py at 2018-02-01 08:15:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 185.67 Mbit/s

95th percentile per-packet one-way delay: 136.993 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 98.40 Mbit/s

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

Loss rate: 1.01%

-- Flow 2:

Average throughput: 96.83 Mbit/s

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

Loss rate: 1.62%

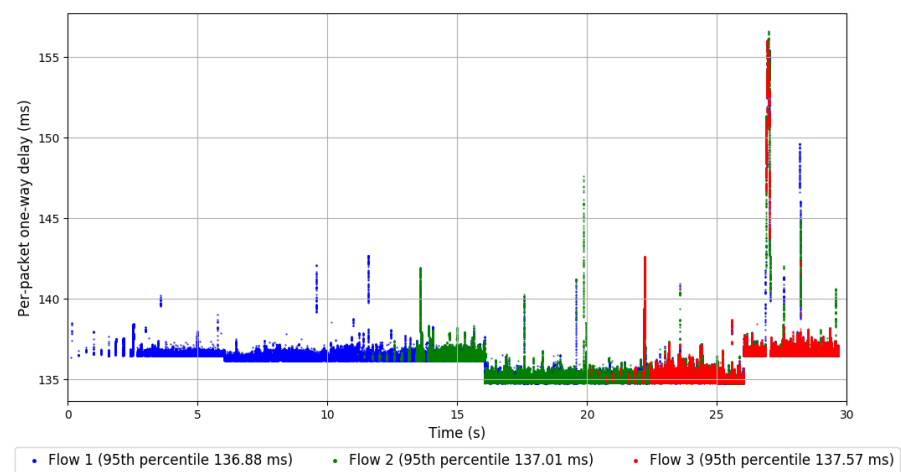
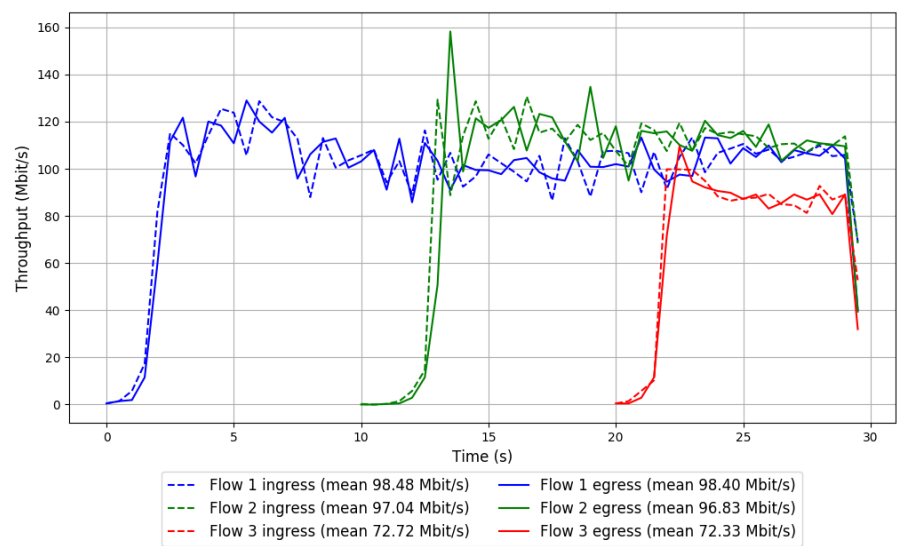
-- Flow 3:

Average throughput: 72.33 Mbit/s

95th percentile per-packet one-way delay: 137.571 ms

Loss rate: 3.36%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-01 02:46:20

End at: 2018-02-01 02:46:50

# Below is generated by plot.py at 2018-02-01 08:15:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 250.32 Mbit/s

95th percentile per-packet one-way delay: 162.843 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 131.73 Mbit/s

95th percentile per-packet one-way delay: 162.738 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 123.66 Mbit/s

95th percentile per-packet one-way delay: 162.865 ms

Loss rate: 1.32%

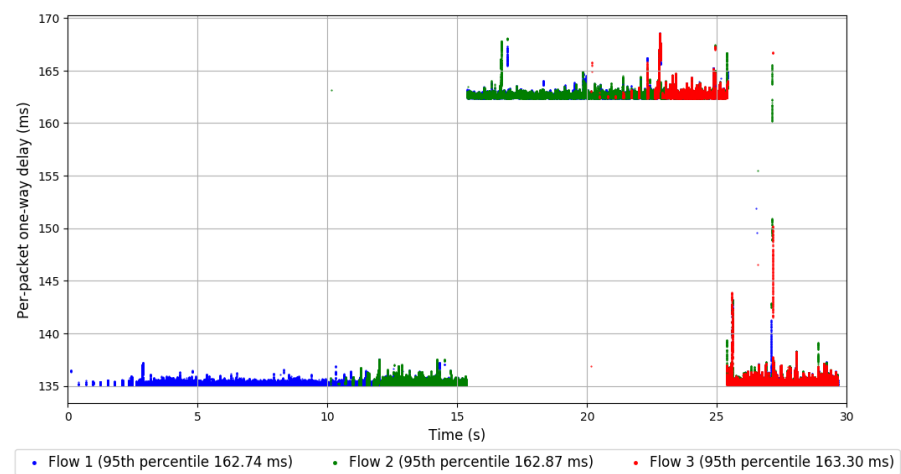
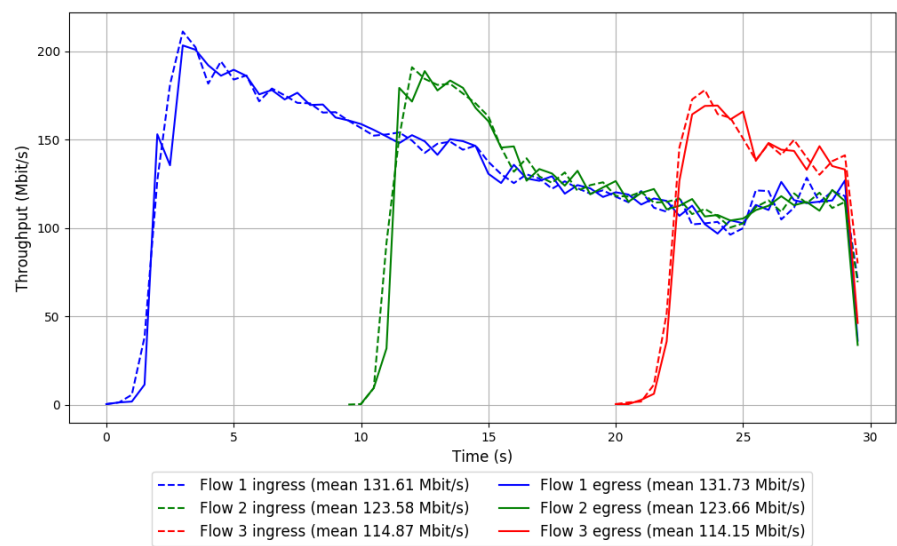
-- Flow 3:

Average throughput: 114.15 Mbit/s

95th percentile per-packet one-way delay: 163.296 ms

Loss rate: 3.41%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-01 03:04:18

End at: 2018-02-01 03:04:48

# Below is generated by plot.py at 2018-02-01 08:16:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 224.33 Mbit/s

95th percentile per-packet one-way delay: 163.071 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 127.11 Mbit/s

95th percentile per-packet one-way delay: 162.970 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 107.81 Mbit/s

95th percentile per-packet one-way delay: 163.128 ms

Loss rate: 1.61%

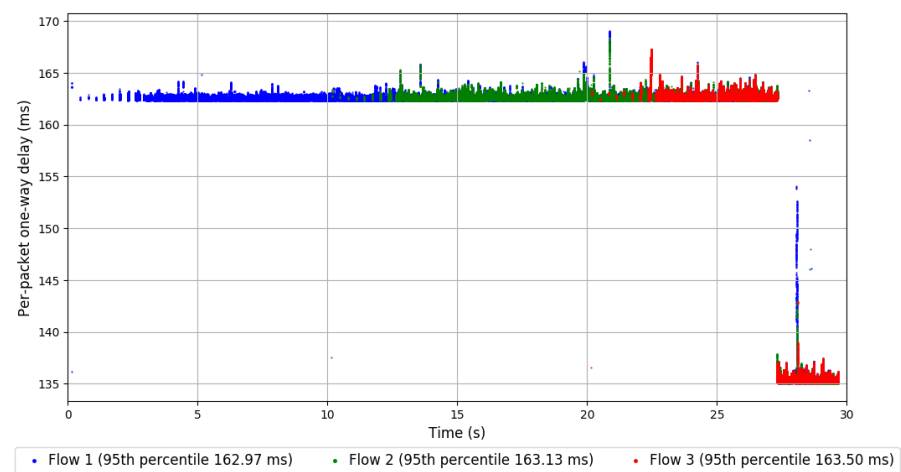
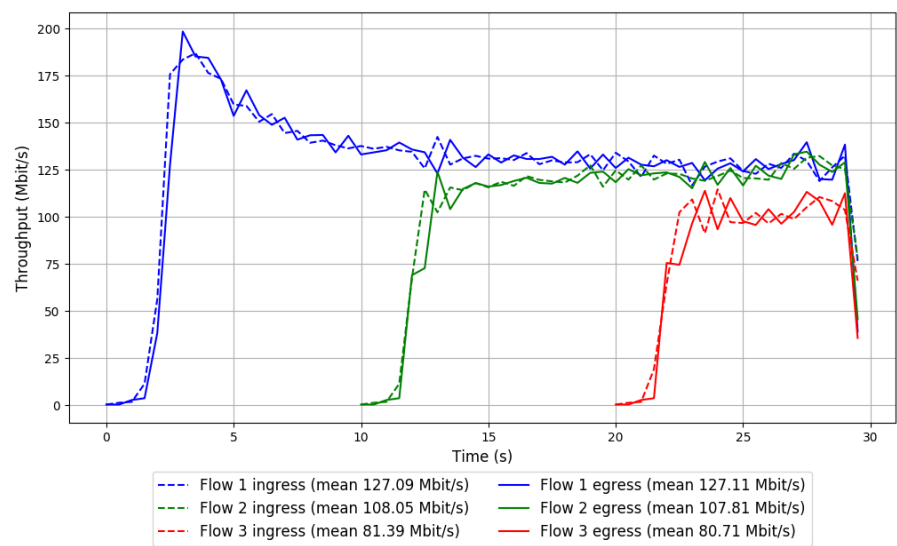
-- Flow 3:

Average throughput: 80.71 Mbit/s

95th percentile per-packet one-way delay: 163.496 ms

Loss rate: 3.66%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-01 03:22:31

End at: 2018-02-01 03:23:01

# Below is generated by plot.py at 2018-02-01 08:16:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 216.79 Mbit/s

95th percentile per-packet one-way delay: 163.209 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 109.01 Mbit/s

95th percentile per-packet one-way delay: 163.299 ms

Loss rate: 1.07%

-- Flow 2:

Average throughput: 103.66 Mbit/s

95th percentile per-packet one-way delay: 162.979 ms

Loss rate: 1.70%

-- Flow 3:

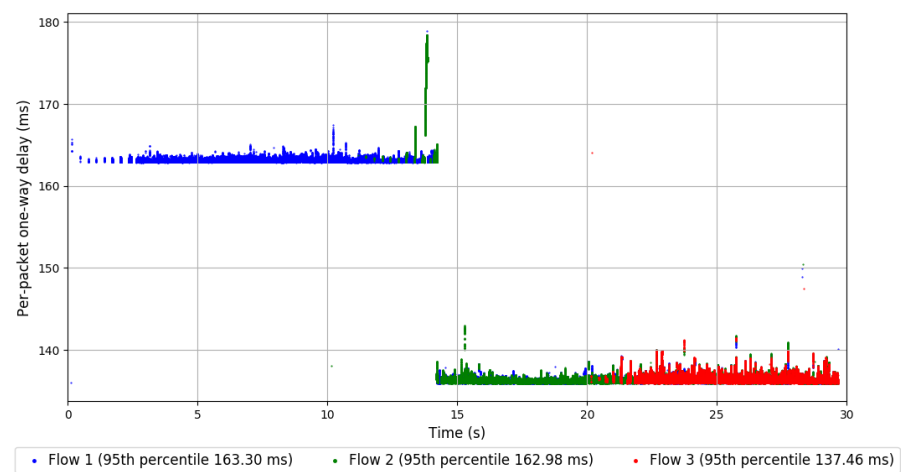
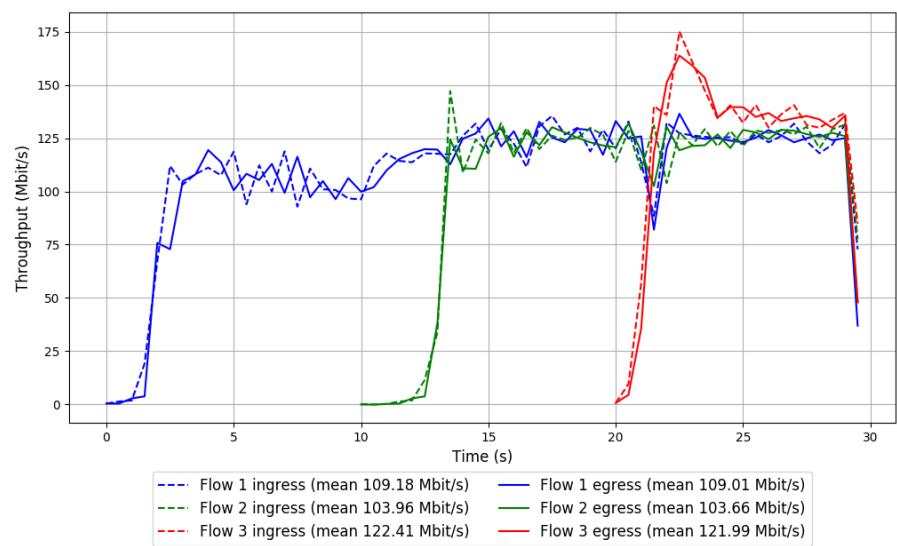
Average throughput: 121.99 Mbit/s

95th percentile per-packet one-way delay: 137.464 ms

Loss rate: 3.13%



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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-01 03:40:49

End at: 2018-02-01 03:41:19

# Below is generated by plot.py at 2018-02-01 08:16:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 250.91 Mbit/s

95th percentile per-packet one-way delay: 163.354 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 137.84 Mbit/s

95th percentile per-packet one-way delay: 163.207 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 121.29 Mbit/s

95th percentile per-packet one-way delay: 163.362 ms

Loss rate: 1.40%

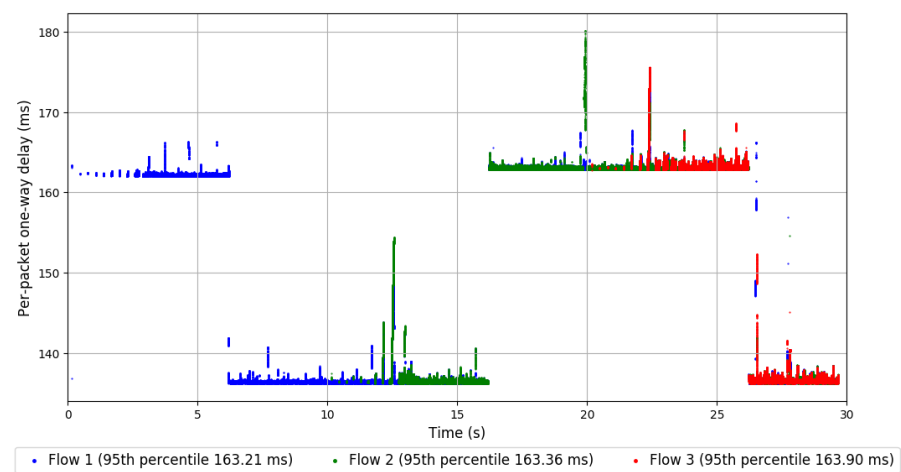
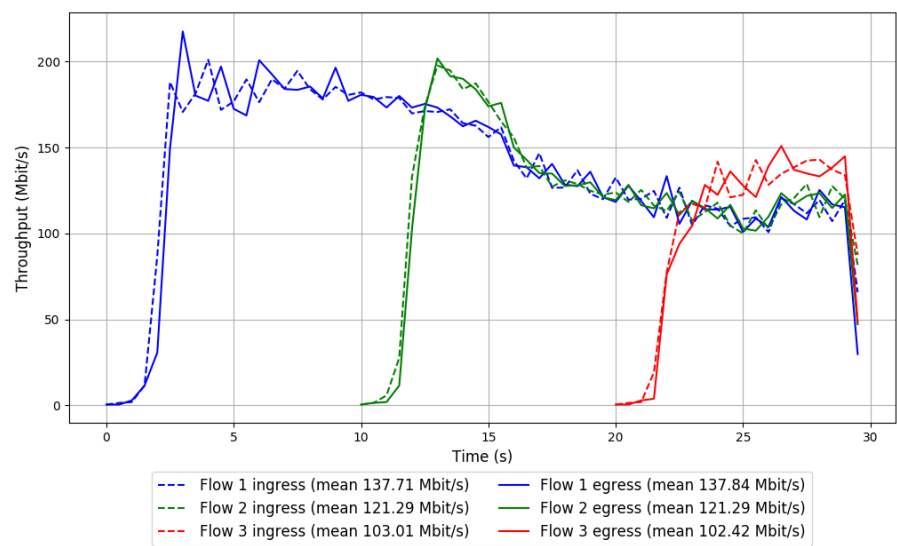
-- Flow 3:

Average throughput: 102.42 Mbit/s

95th percentile per-packet one-way delay: 163.895 ms

Loss rate: 3.62%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-01 03:59:19

End at: 2018-02-01 03:59:49

# Below is generated by plot.py at 2018-02-01 08:19:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 318.91 Mbit/s

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

Loss rate: 1.22%

-- Flow 1:

Average throughput: 165.78 Mbit/s

95th percentile per-packet one-way delay: 163.158 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 166.65 Mbit/s

95th percentile per-packet one-way delay: 163.324 ms

Loss rate: 1.22%

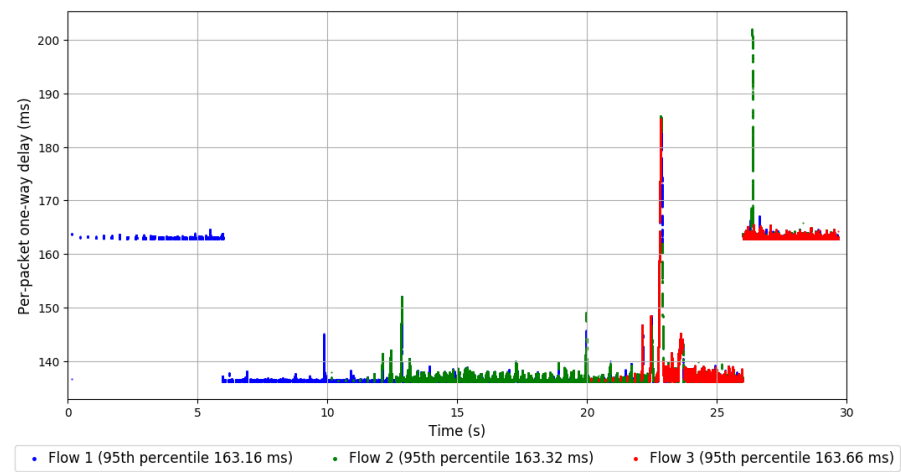
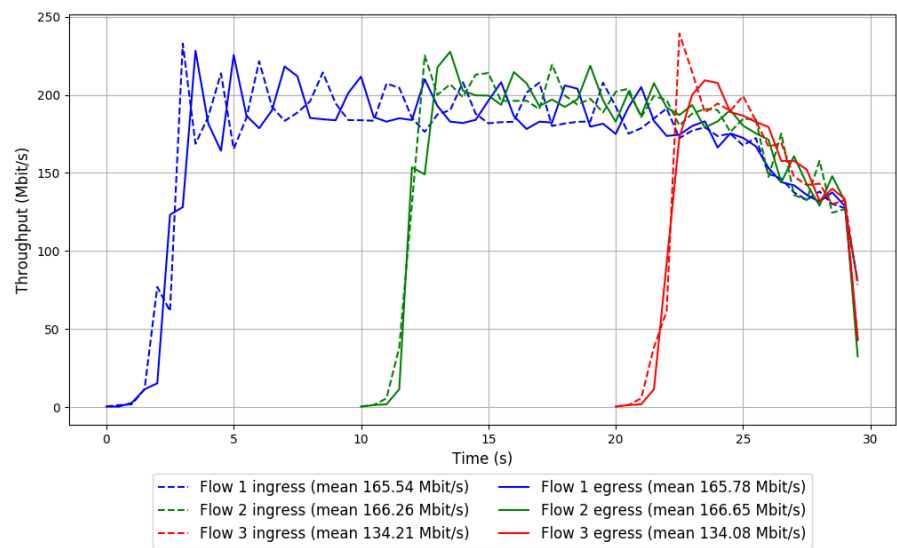
-- Flow 3:

Average throughput: 134.08 Mbit/s

95th percentile per-packet one-way delay: 163.665 ms

Loss rate: 2.87%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-01 04:18:17

End at: 2018-02-01 04:18:47

# Below is generated by plot.py at 2018-02-01 08:19:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 268.40 Mbit/s

95th percentile per-packet one-way delay: 164.631 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 125.39 Mbit/s

95th percentile per-packet one-way delay: 163.807 ms

Loss rate: 1.30%

-- Flow 2:

Average throughput: 148.00 Mbit/s

95th percentile per-packet one-way delay: 164.883 ms

Loss rate: 1.43%

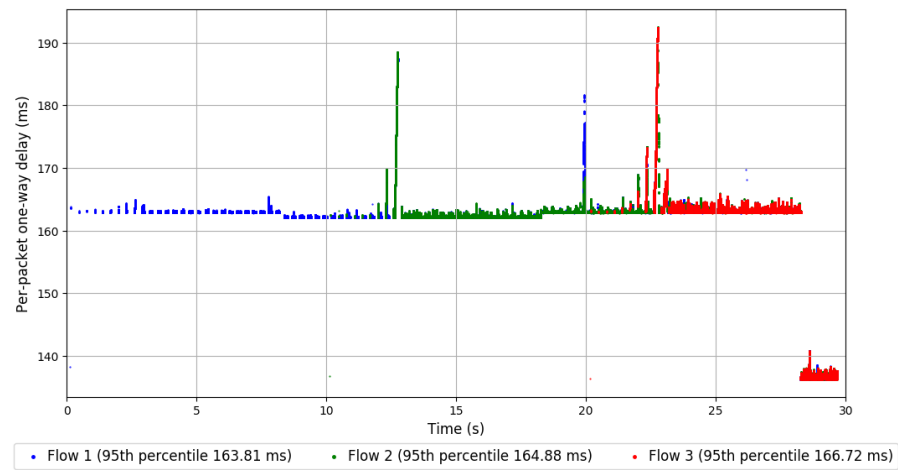
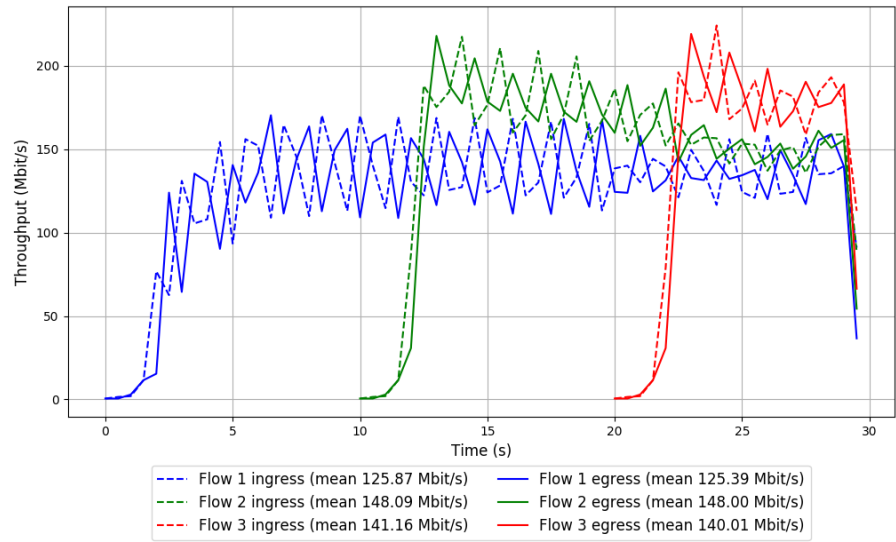
-- Flow 3:

Average throughput: 140.01 Mbit/s

95th percentile per-packet one-way delay: 166.725 ms

Loss rate: 3.57%

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



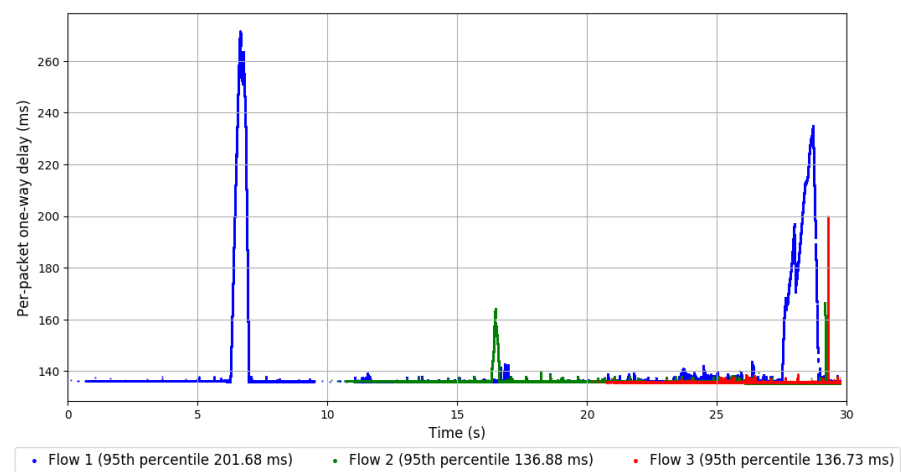
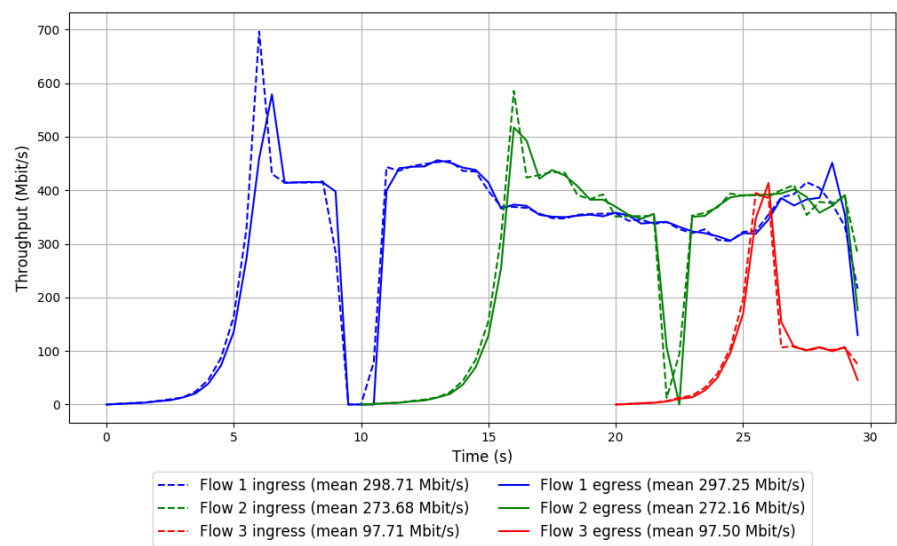
```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-01 01:20:19
End at: 2018-02-01 01:20:49

# Below is generated by plot.py at 2018-02-01 08:23:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 508.79 Mbit/s
95th percentile per-packet one-way delay: 171.694 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 297.25 Mbit/s
95th percentile per-packet one-way delay: 201.684 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 272.16 Mbit/s
95th percentile per-packet one-way delay: 136.875 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 136.731 ms
Loss rate: 2.98%
```



Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-01 01:39:50

End at: 2018-02-01 01:40:20

# Below is generated by plot.py at 2018-02-01 08:23:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 352.48 Mbit/s

95th percentile per-packet one-way delay: 136.812 ms

Loss rate: 1.92%

-- Flow 1:

Average throughput: 205.64 Mbit/s

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

Loss rate: 1.24%

-- Flow 2:

Average throughput: 168.93 Mbit/s

95th percentile per-packet one-way delay: 135.938 ms

Loss rate: 1.95%

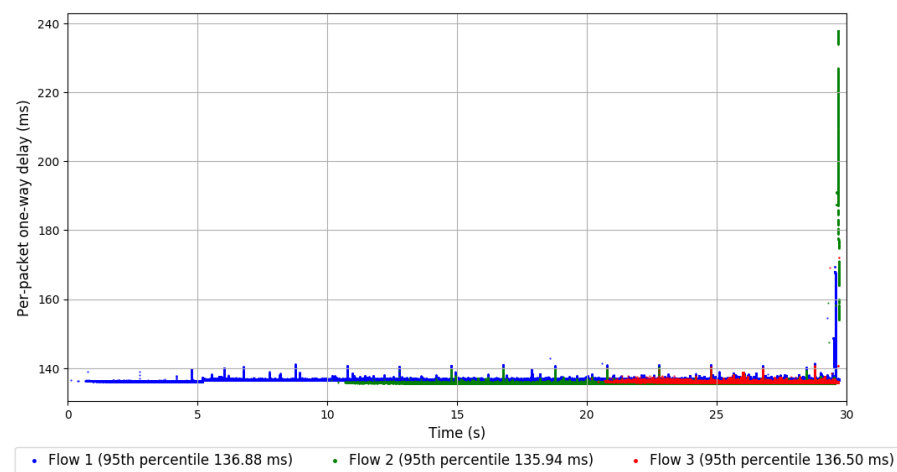
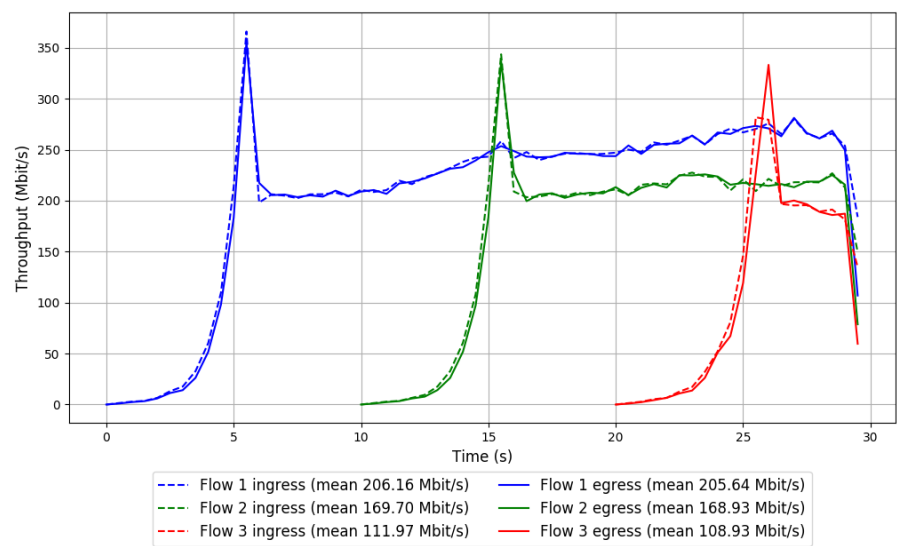
-- Flow 3:

Average throughput: 108.93 Mbit/s

95th percentile per-packet one-way delay: 136.505 ms

Loss rate: 5.64%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-01 01:58:29

End at: 2018-02-01 01:58:59

# Below is generated by plot.py at 2018-02-01 08:23:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 421.68 Mbit/s

95th percentile per-packet one-way delay: 136.903 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 265.54 Mbit/s

95th percentile per-packet one-way delay: 147.374 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 187.76 Mbit/s

95th percentile per-packet one-way delay: 136.749 ms

Loss rate: 1.51%

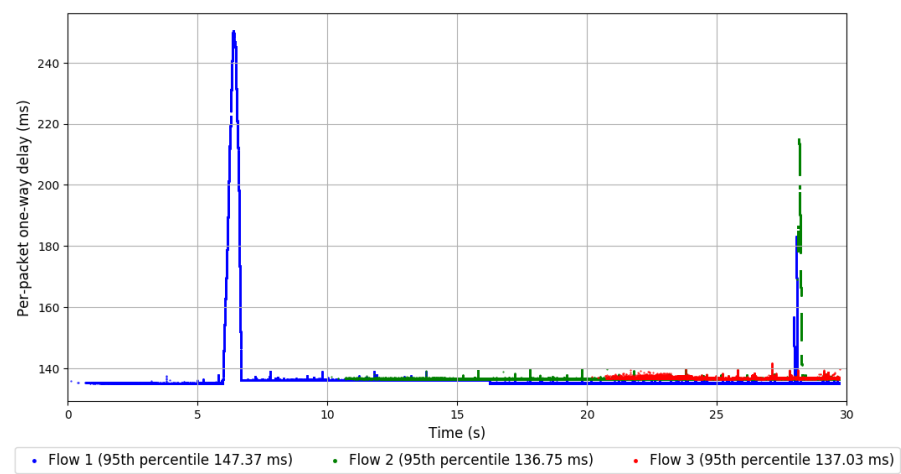
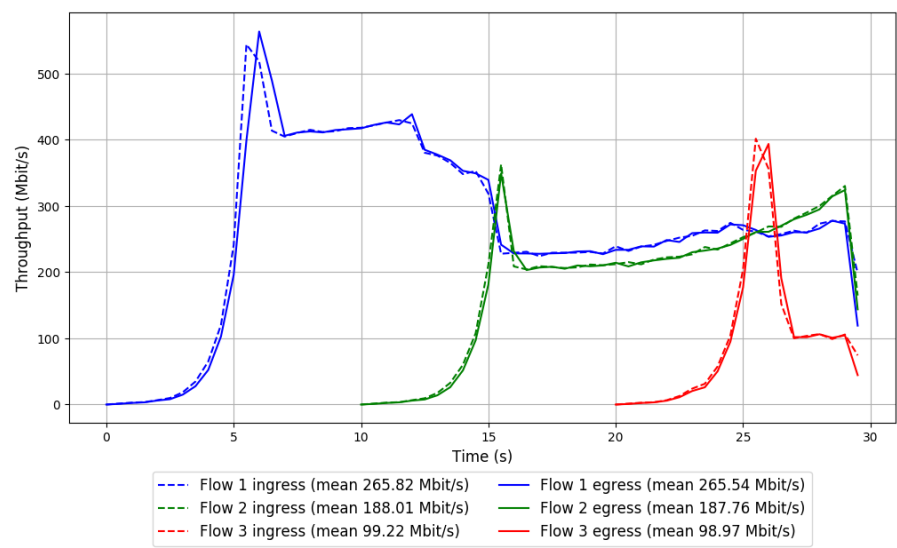
-- Flow 3:

Average throughput: 98.97 Mbit/s

95th percentile per-packet one-way delay: 137.030 ms

Loss rate: 3.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-01 02:16:53

End at: 2018-02-01 02:17:23

# Below is generated by plot.py at 2018-02-01 08:23:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 271.56 Mbit/s

95th percentile per-packet one-way delay: 162.828 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 122.48 Mbit/s

95th percentile per-packet one-way delay: 162.973 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 167.12 Mbit/s

95th percentile per-packet one-way delay: 136.975 ms

Loss rate: 1.75%

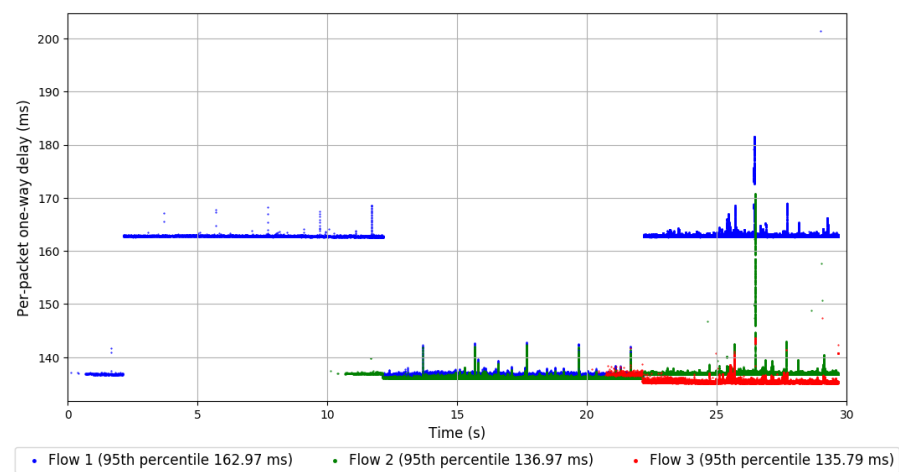
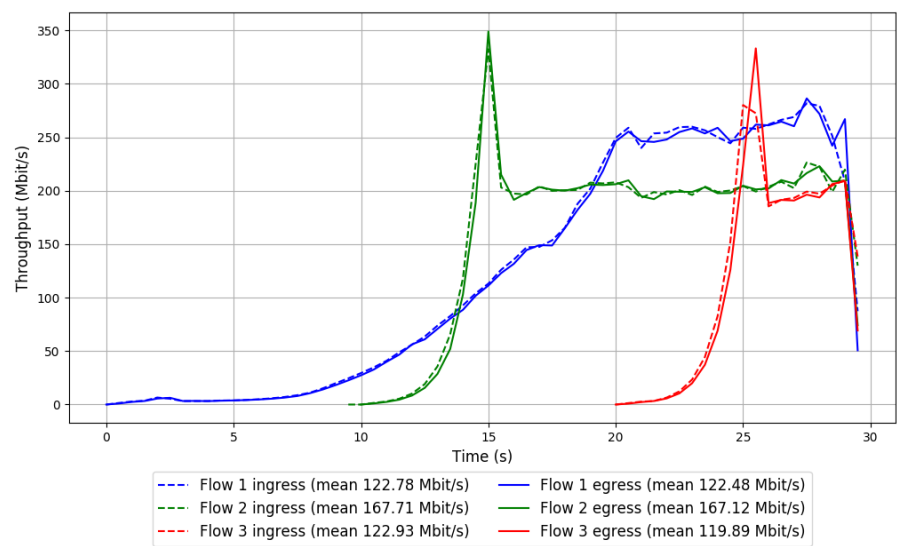
-- Flow 3:

Average throughput: 119.89 Mbit/s

95th percentile per-packet one-way delay: 135.791 ms

Loss rate: 5.20%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

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

End at: 2018-02-01 02:35:31

# Below is generated by plot.py at 2018-02-01 08:23:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 365.80 Mbit/s

95th percentile per-packet one-way delay: 136.972 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 207.92 Mbit/s

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

Loss rate: 1.11%

-- Flow 2:

Average throughput: 184.38 Mbit/s

95th percentile per-packet one-way delay: 137.137 ms

Loss rate: 2.14%

-- Flow 3:

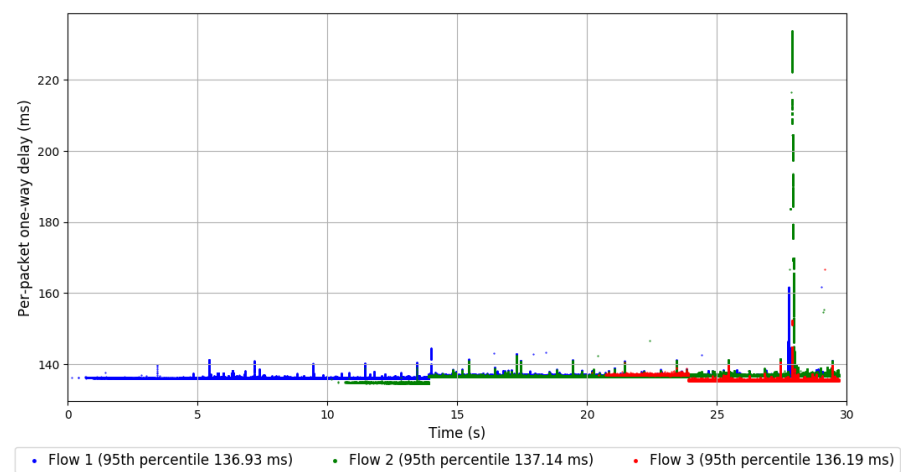
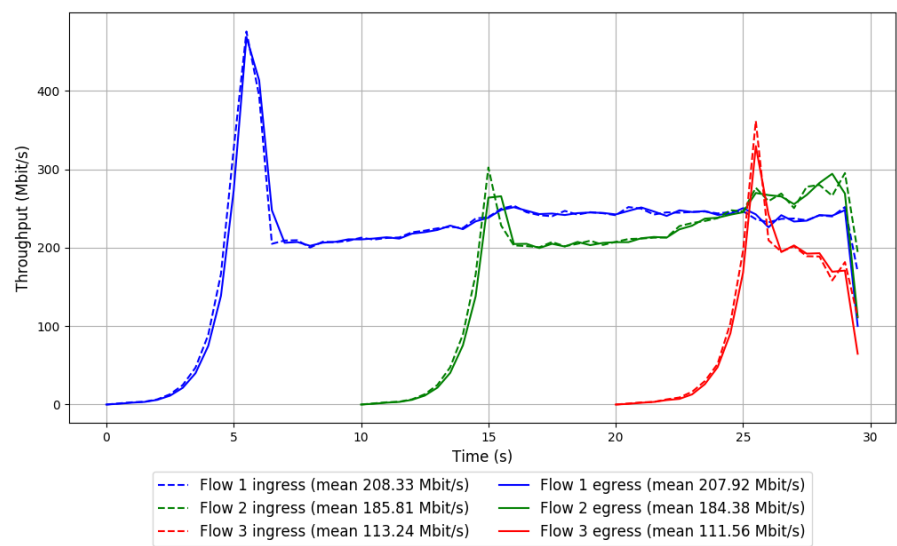
Average throughput: 111.56 Mbit/s

95th percentile per-packet one-way delay: 136.194 ms

Loss rate: 4.25%



Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-01 02:52:59

End at: 2018-02-01 02:53:29

# Below is generated by plot.py at 2018-02-01 08:23:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 294.61 Mbit/s

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

Loss rate: 2.12%

-- Flow 1:

Average throughput: 136.85 Mbit/s

95th percentile per-packet one-way delay: 136.073 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 182.74 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 2.22%

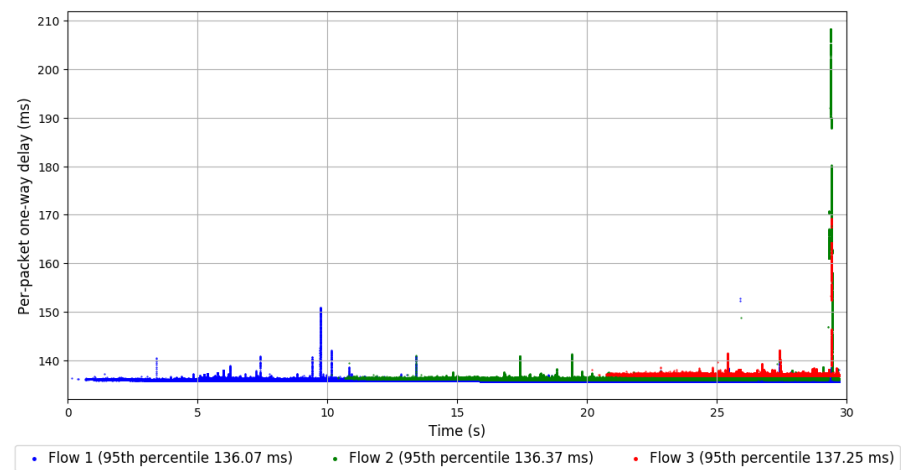
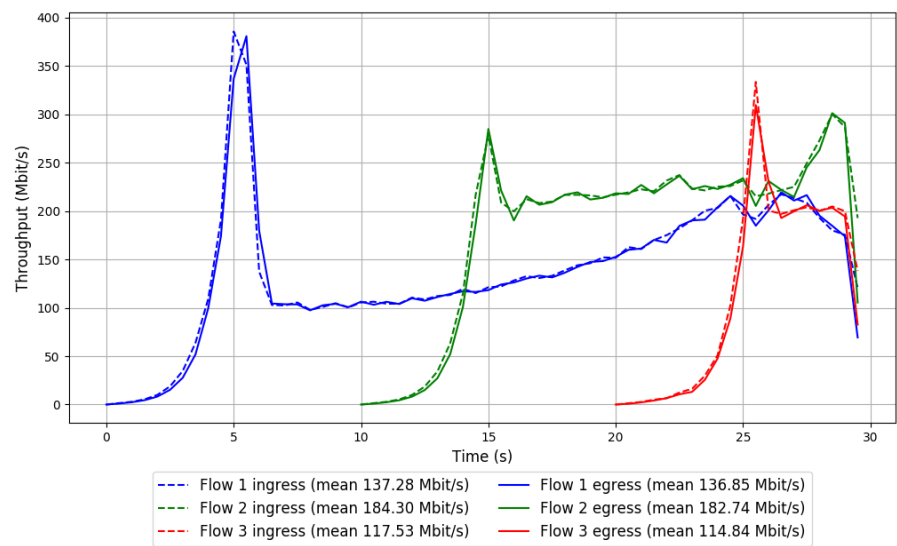
-- Flow 3:

Average throughput: 114.84 Mbit/s

95th percentile per-packet one-way delay: 137.249 ms

Loss rate: 5.05%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-01 03:10:57

End at: 2018-02-01 03:11:27

# Below is generated by plot.py at 2018-02-01 08:24:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 316.91 Mbit/s

95th percentile per-packet one-way delay: 162.513 ms

Loss rate: 2.05%

-- Flow 1:

Average throughput: 174.37 Mbit/s

95th percentile per-packet one-way delay: 162.624 ms

Loss rate: 1.49%

-- Flow 2:

Average throughput: 159.86 Mbit/s

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

Loss rate: 2.06%

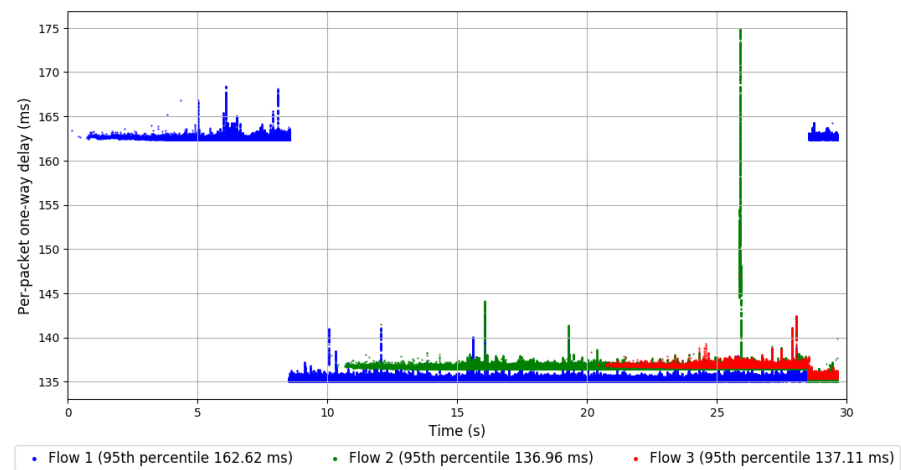
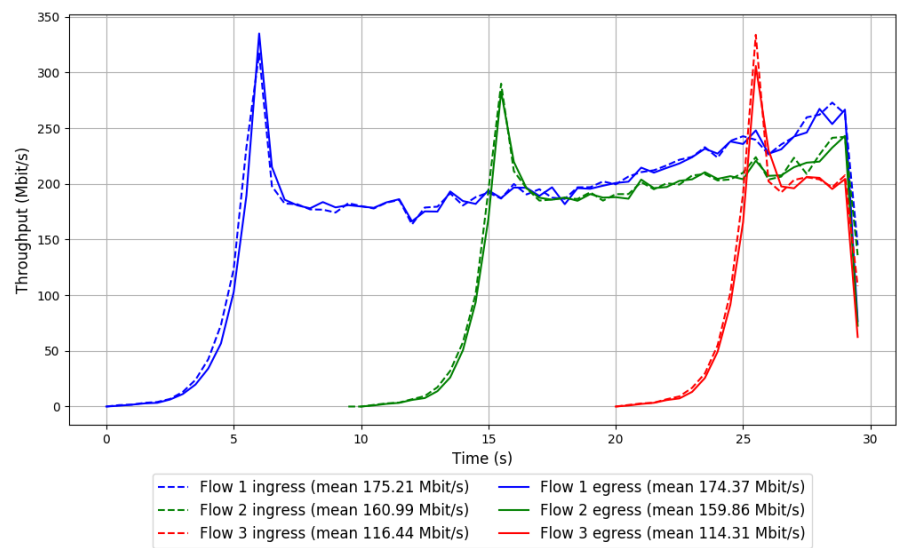
-- Flow 3:

Average throughput: 114.31 Mbit/s

95th percentile per-packet one-way delay: 137.108 ms

Loss rate: 4.61%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-01 03:29:05

End at: 2018-02-01 03:29:35

# Below is generated by plot.py at 2018-02-01 08:26:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 401.01 Mbit/s

95th percentile per-packet one-way delay: 163.491 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 251.83 Mbit/s

95th percentile per-packet one-way delay: 178.545 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 166.87 Mbit/s

95th percentile per-packet one-way delay: 136.941 ms

Loss rate: 1.74%

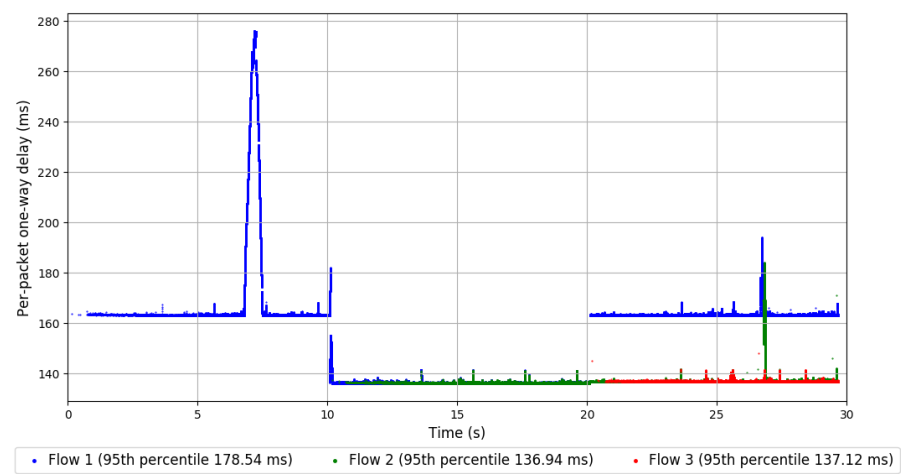
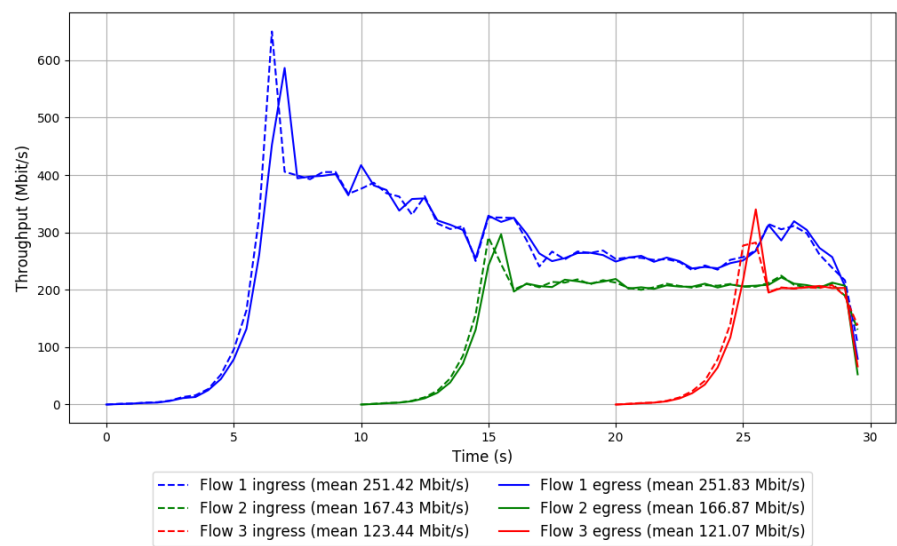
-- Flow 3:

Average throughput: 121.07 Mbit/s

95th percentile per-packet one-way delay: 137.116 ms

Loss rate: 4.76%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-01 03:47:30

End at: 2018-02-01 03:48:00

# Below is generated by plot.py at 2018-02-01 08:27:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 422.24 Mbit/s

95th percentile per-packet one-way delay: 163.034 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 267.94 Mbit/s

95th percentile per-packet one-way delay: 165.027 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 177.88 Mbit/s

95th percentile per-packet one-way delay: 136.370 ms

Loss rate: 1.83%

-- Flow 3:

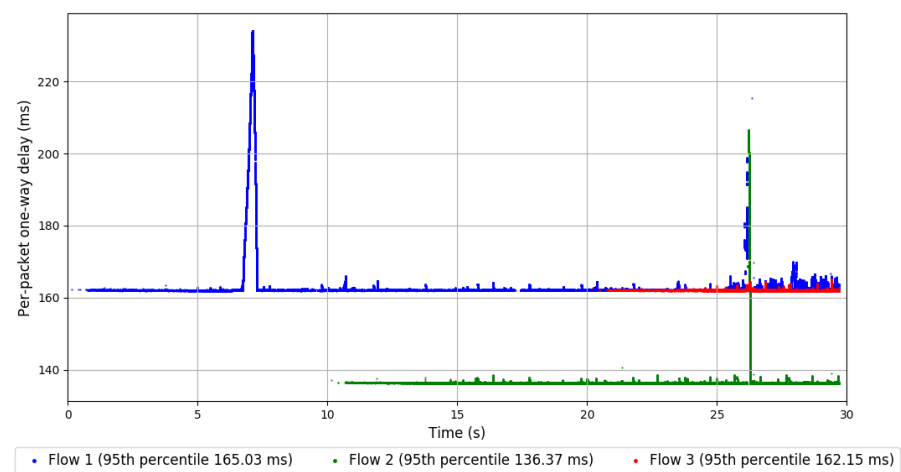
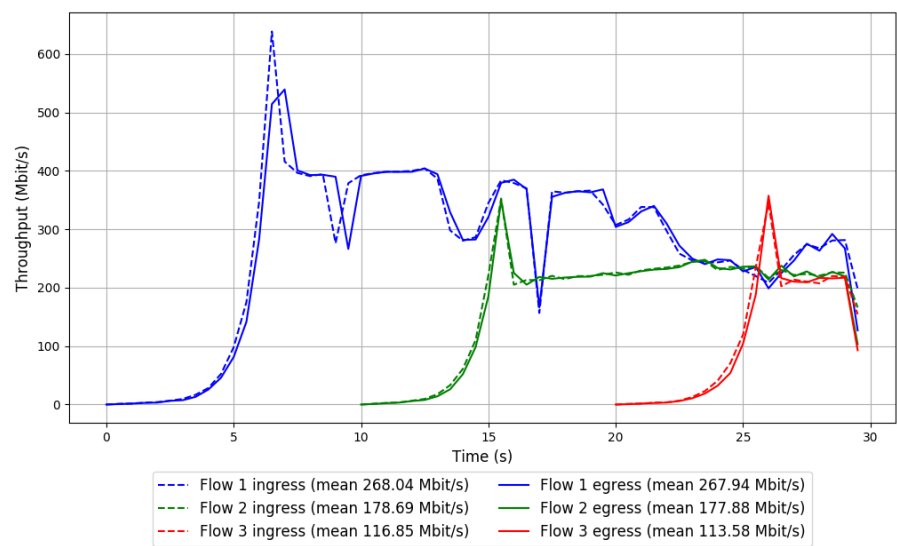
Average throughput: 113.58 Mbit/s

95th percentile per-packet one-way delay: 162.153 ms

Loss rate: 5.77%



Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-01 04:06:18

End at: 2018-02-01 04:06:48

# Below is generated by plot.py at 2018-02-01 08:28:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 433.77 Mbit/s

95th percentile per-packet one-way delay: 164.038 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 281.95 Mbit/s

95th percentile per-packet one-way delay: 184.197 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 179.47 Mbit/s

95th percentile per-packet one-way delay: 163.231 ms

Loss rate: 2.28%

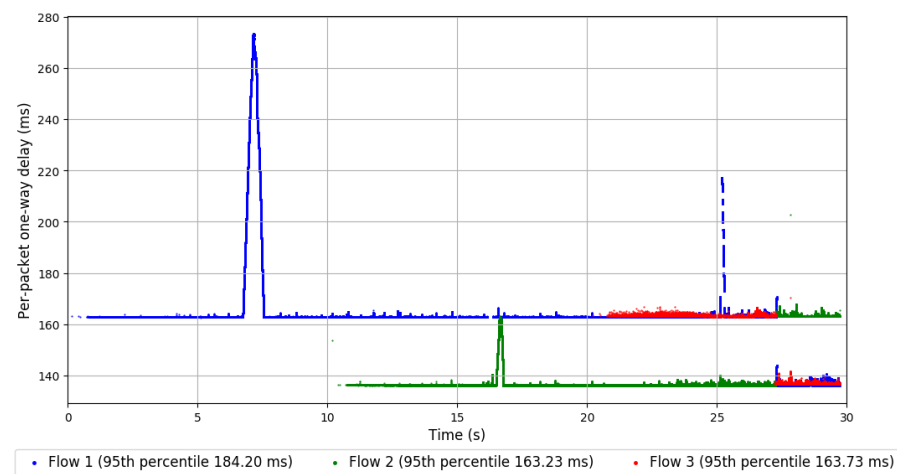
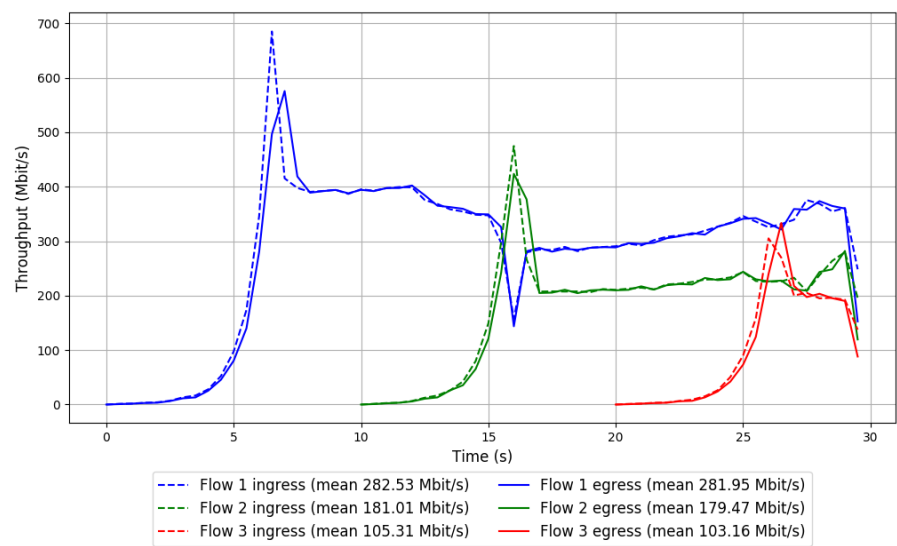
-- Flow 3:

Average throughput: 103.16 Mbit/s

95th percentile per-packet one-way delay: 163.729 ms

Loss rate: 5.01%

Run 10: Report of Vivace-latency — Data Link

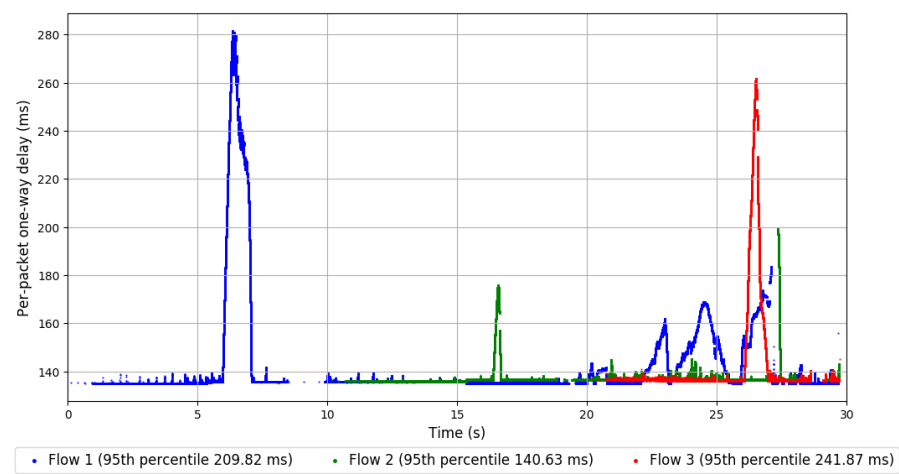
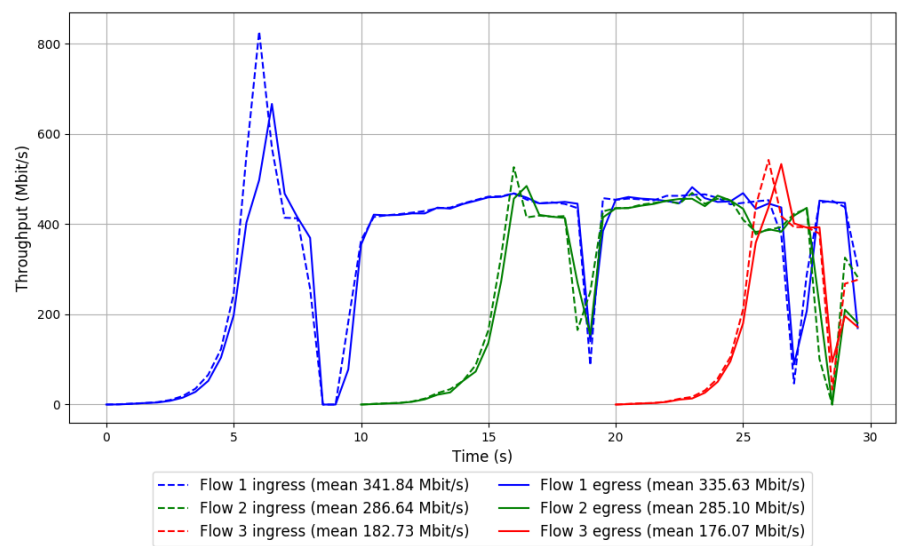


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-01 01:21:50
End at: 2018-02-01 01:22:20

# Below is generated by plot.py at 2018-02-01 08:31:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 580.96 Mbit/s
95th percentile per-packet one-way delay: 177.949 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 335.63 Mbit/s
95th percentile per-packet one-way delay: 209.817 ms
Loss rate: 2.71%
-- Flow 2:
Average throughput: 285.10 Mbit/s
95th percentile per-packet one-way delay: 140.626 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 176.07 Mbit/s
95th percentile per-packet one-way delay: 241.866 ms
Loss rate: 6.26%
```

Run 1: Report of Vivace-loss — Data Link

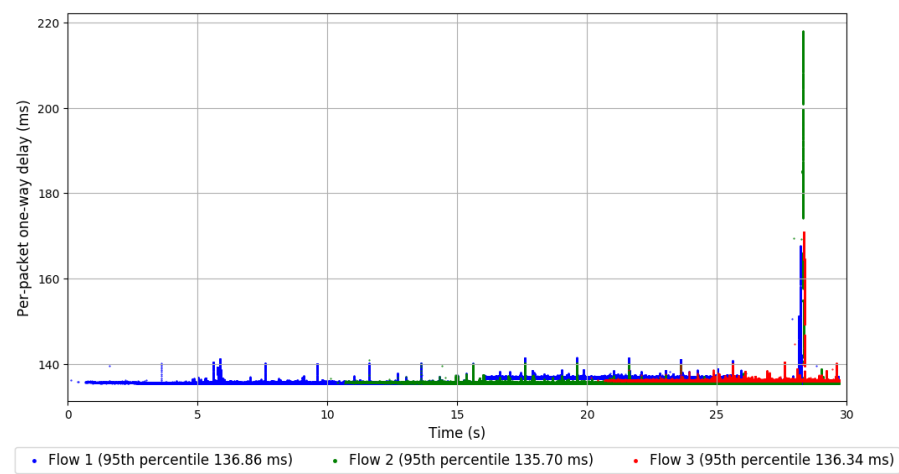
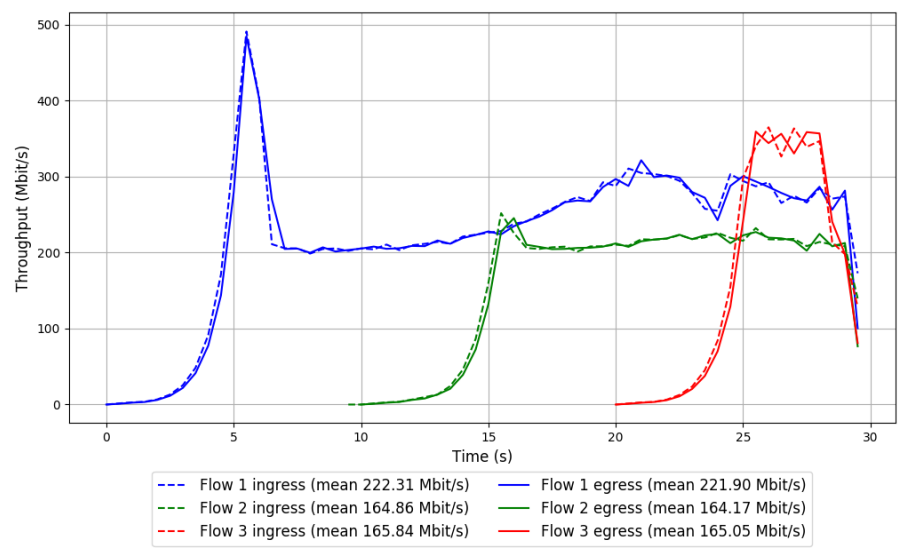


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-01 01:41:09
End at: 2018-02-01 01:41:39

# Below is generated by plot.py at 2018-02-01 08:31:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.74 Mbit/s
95th percentile per-packet one-way delay: 136.835 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 221.90 Mbit/s
95th percentile per-packet one-way delay: 136.858 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 164.17 Mbit/s
95th percentile per-packet one-way delay: 135.702 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 165.05 Mbit/s
95th percentile per-packet one-way delay: 136.339 ms
Loss rate: 3.25%
```

Run 2: Report of Vivace-loss — Data Link



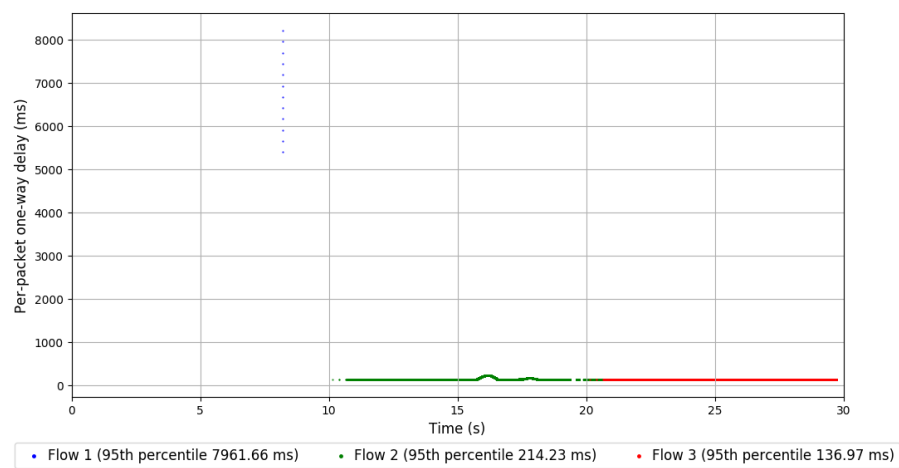
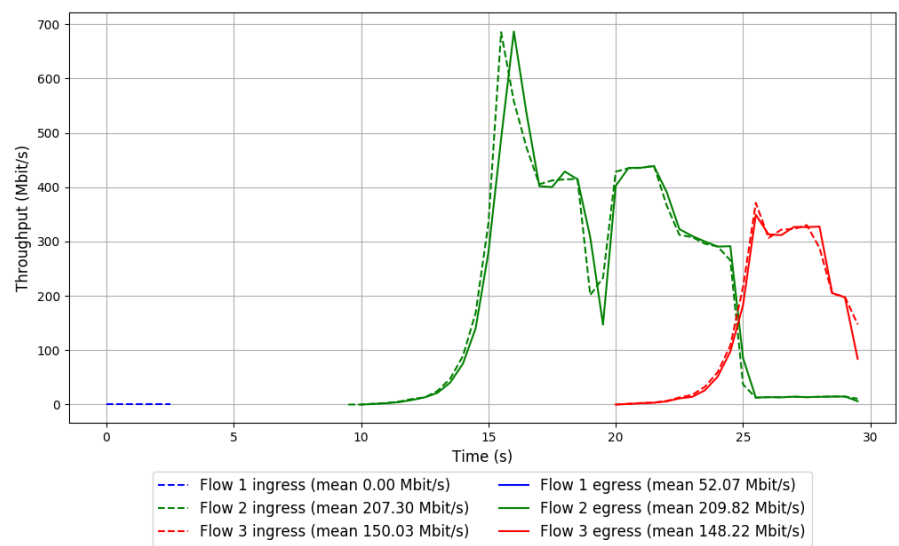
Run 3: Statistics of Vivace-loss

Start at: 2018-02-01 01:59:53

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



Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-01 02:18:06

End at: 2018-02-01 02:18:36

# Below is generated by plot.py at 2018-02-01 08:31:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 258.24 Mbit/s

95th percentile per-packet one-way delay: 136.646 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 146.01 Mbit/s

95th percentile per-packet one-way delay: 136.660 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 107.11 Mbit/s

95th percentile per-packet one-way delay: 136.298 ms

Loss rate: 1.90%

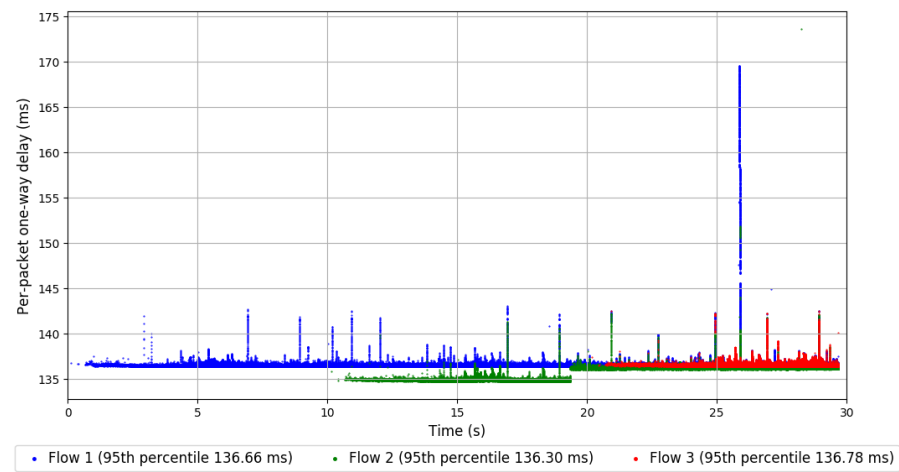
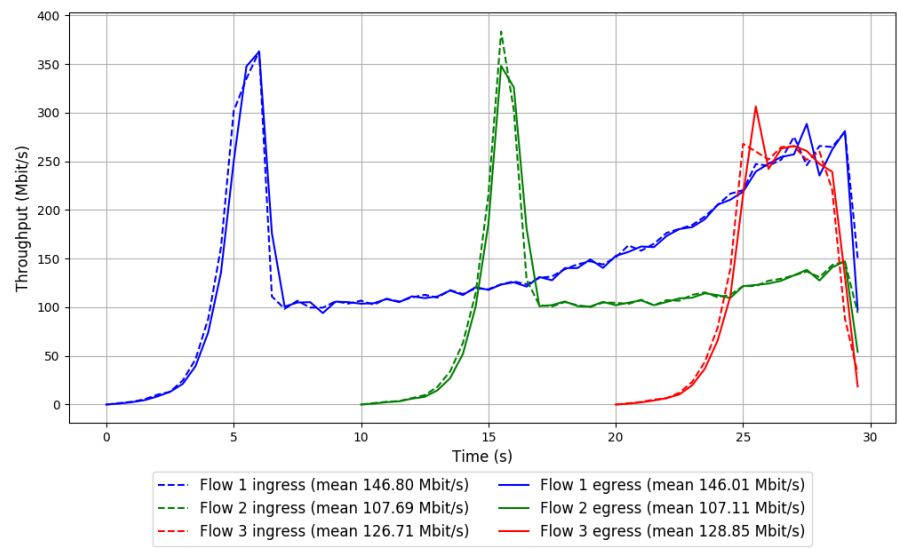
-- Flow 3:

Average throughput: 128.85 Mbit/s

95th percentile per-packet one-way delay: 136.784 ms

Loss rate: 1.12%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-01 02:36:21

End at: 2018-02-01 02:36:51

# Below is generated by plot.py at 2018-02-01 08:31:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 261.10 Mbit/s

95th percentile per-packet one-way delay: 136.383 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 132.81 Mbit/s

95th percentile per-packet one-way delay: 136.734 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 110.03 Mbit/s

95th percentile per-packet one-way delay: 136.277 ms

Loss rate: 1.94%

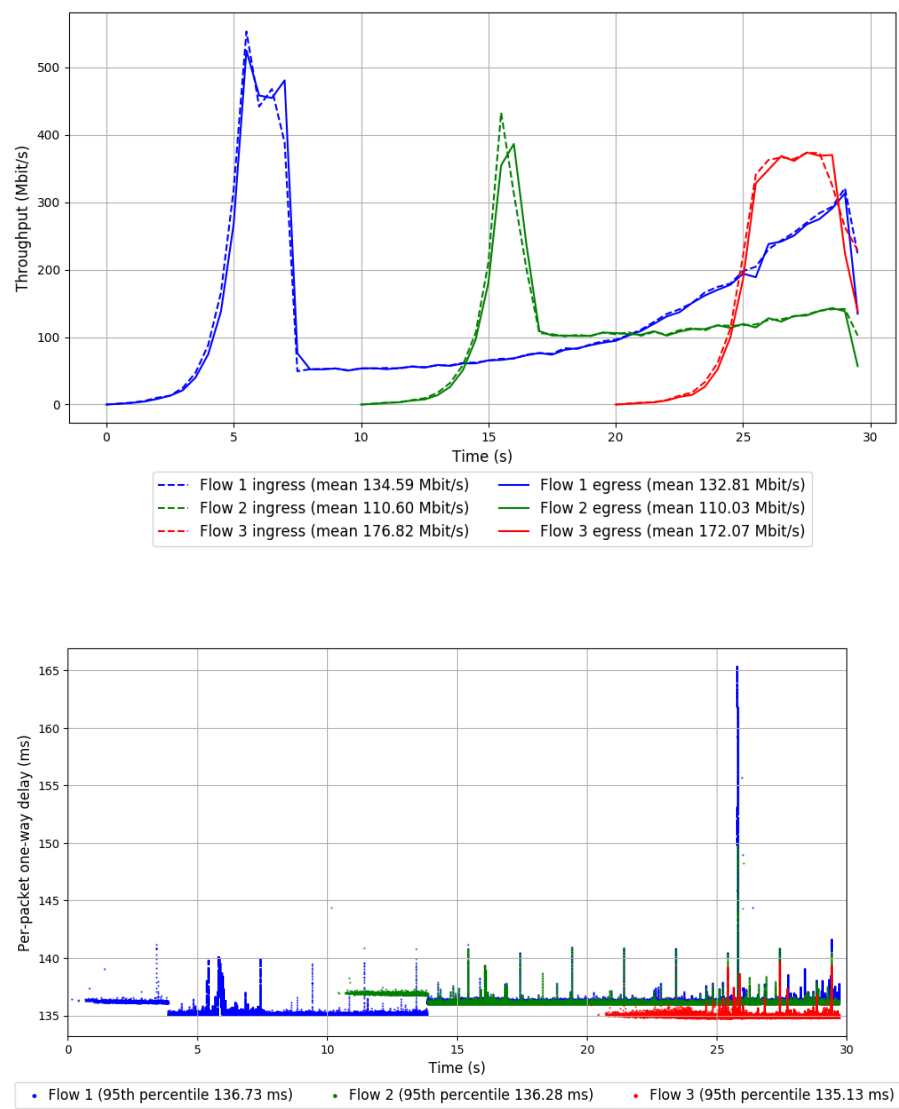
-- Flow 3:

Average throughput: 172.07 Mbit/s

95th percentile per-packet one-way delay: 135.127 ms

Loss rate: 5.40%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

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

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

# Below is generated by plot.py at 2018-02-01 08:31:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 225.92 Mbit/s

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

Loss rate: 1.80%

-- Flow 1:

Average throughput: 132.67 Mbit/s

95th percentile per-packet one-way delay: 137.028 ms

Loss rate: 1.12%

-- Flow 2:

Average throughput: 79.44 Mbit/s

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

Loss rate: 1.50%

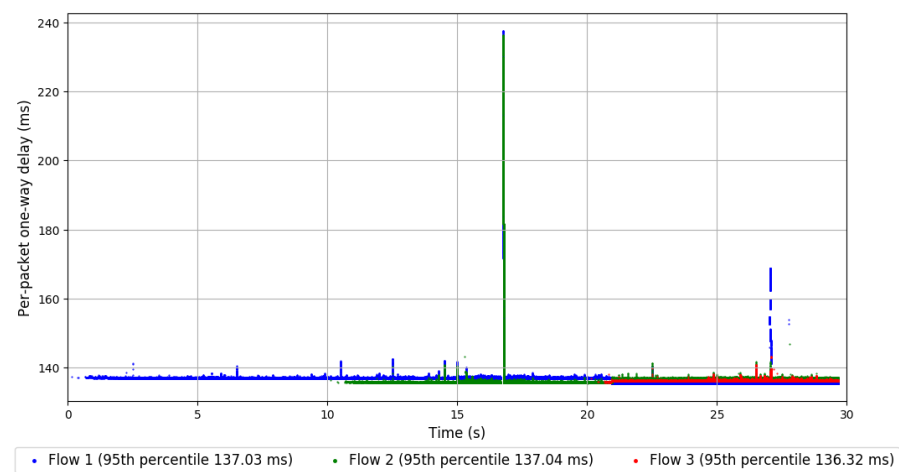
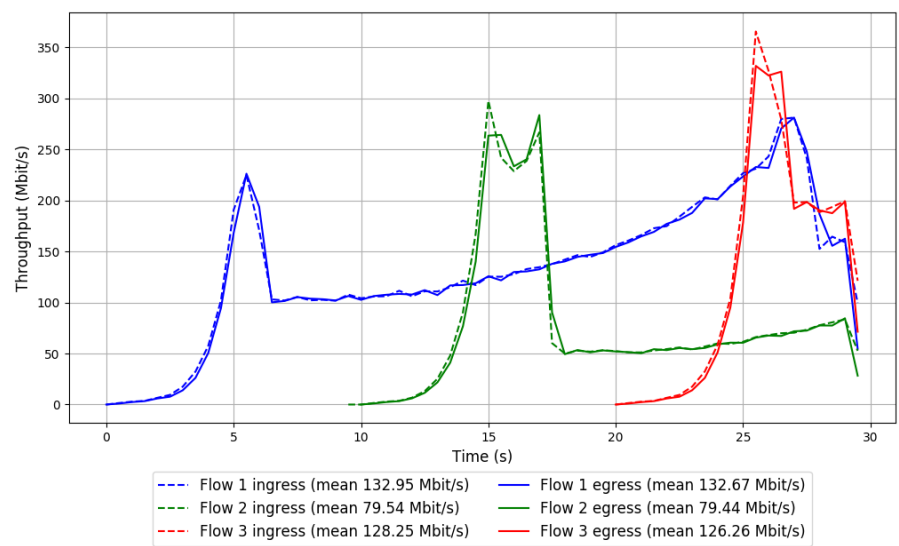
-- Flow 3:

Average throughput: 126.26 Mbit/s

95th percentile per-packet one-way delay: 136.317 ms

Loss rate: 4.30%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-01 03:12:13

End at: 2018-02-01 03:12:43

# Below is generated by plot.py at 2018-02-01 08:31:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 271.69 Mbit/s

95th percentile per-packet one-way delay: 136.869 ms

Loss rate: 1.82%

-- Flow 1:

Average throughput: 127.67 Mbit/s

95th percentile per-packet one-way delay: 136.806 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 169.85 Mbit/s

95th percentile per-packet one-way delay: 136.896 ms

Loss rate: 1.73%

-- Flow 3:

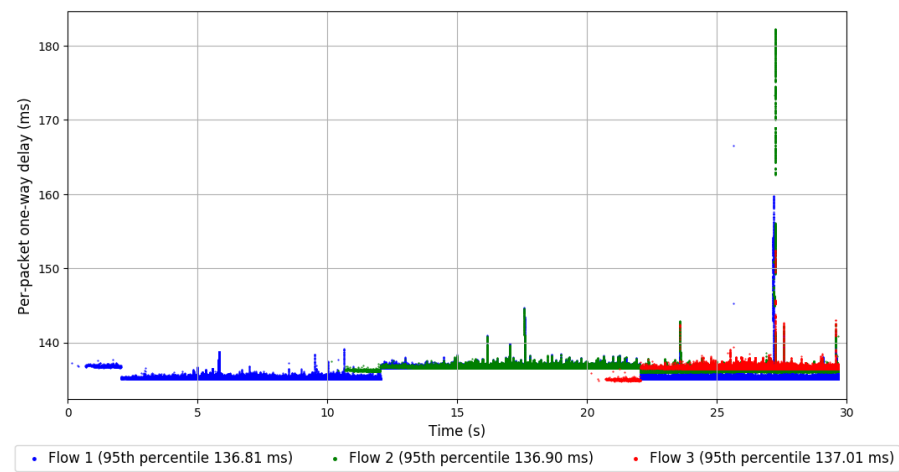
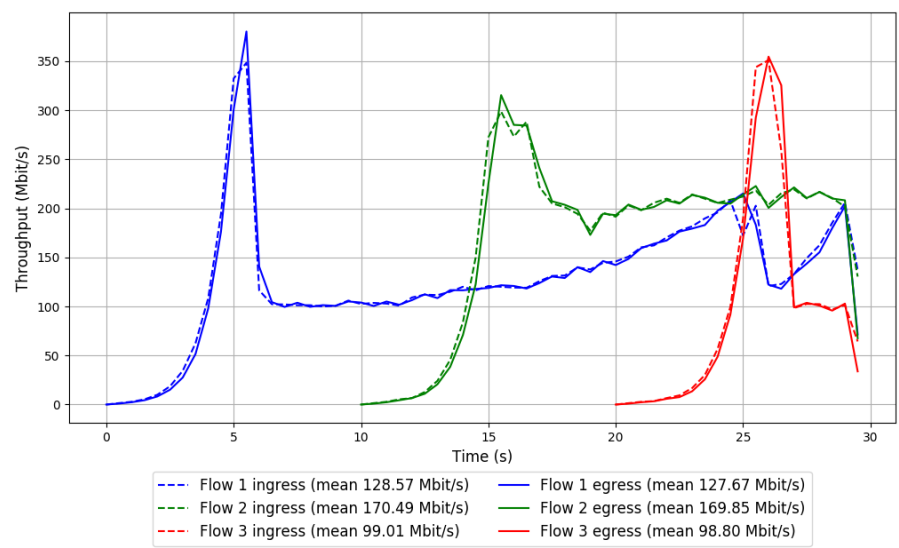
Average throughput: 98.80 Mbit/s

95th percentile per-packet one-way delay: 137.014 ms

Loss rate: 3.00%



Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-01 03:30:27

End at: 2018-02-01 03:30:57

# Below is generated by plot.py at 2018-02-01 08:32:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 310.25 Mbit/s

95th percentile per-packet one-way delay: 162.532 ms

Loss rate: 2.03%

-- Flow 1:

Average throughput: 209.68 Mbit/s

95th percentile per-packet one-way delay: 162.573 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 136.167 ms

Loss rate: 1.18%

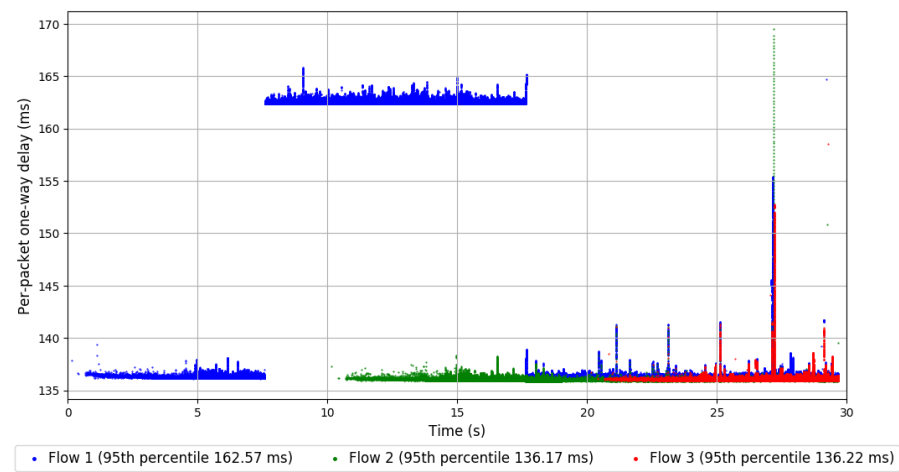
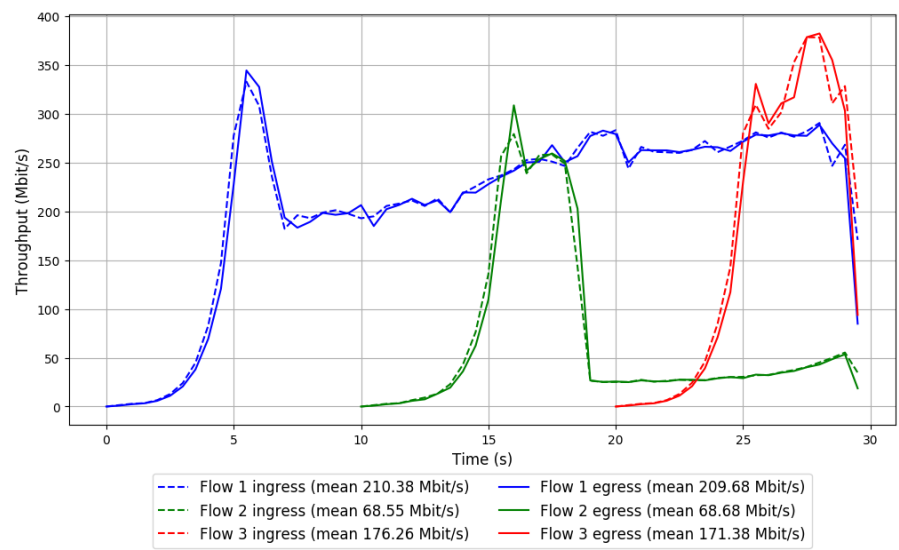
-- Flow 3:

Average throughput: 171.38 Mbit/s

95th percentile per-packet one-way delay: 136.218 ms

Loss rate: 5.50%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-01 03:48:57

End at: 2018-02-01 03:49:27

# Below is generated by plot.py at 2018-02-01 08:32:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 194.65 Mbit/s

95th percentile per-packet one-way delay: 247.044 ms

Loss rate: 3.74%

-- Flow 1:

Average throughput: 55.35 Mbit/s

95th percentile per-packet one-way delay: 3017.479 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 191.00 Mbit/s

95th percentile per-packet one-way delay: 214.326 ms

Loss rate: 2.14%

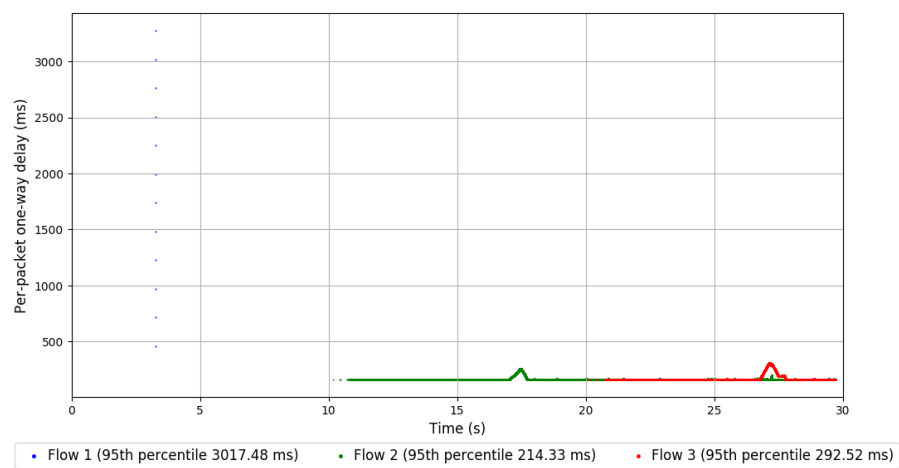
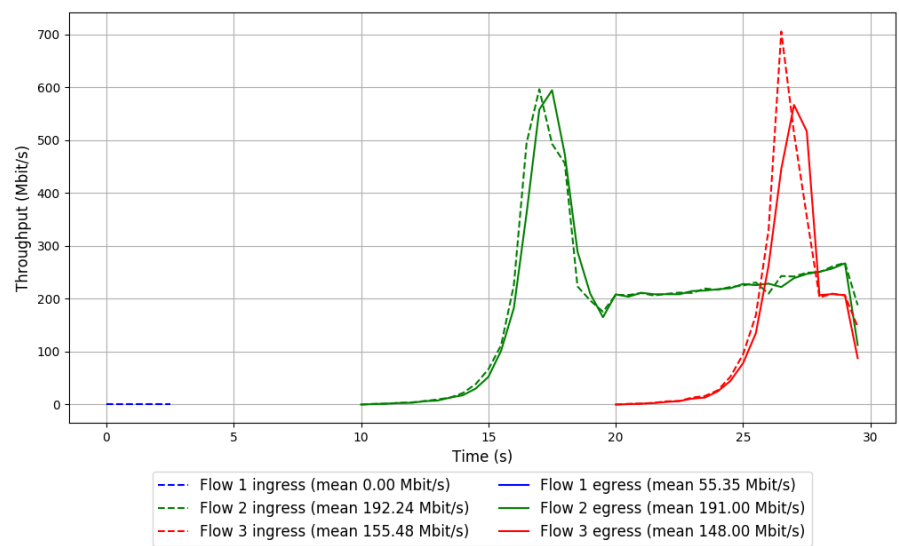
-- Flow 3:

Average throughput: 148.00 Mbit/s

95th percentile per-packet one-way delay: 292.524 ms

Loss rate: 7.71%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-01 04:07:45

End at: 2018-02-01 04:08:15

# Below is generated by plot.py at 2018-02-01 08:33:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 301.70 Mbit/s

95th percentile per-packet one-way delay: 209.089 ms

Loss rate: 2.07%

-- Flow 1:

Average throughput: 144.22 Mbit/s

95th percentile per-packet one-way delay: 237.160 ms

Loss rate: 1.56%

-- Flow 2:

Average throughput: 176.59 Mbit/s

95th percentile per-packet one-way delay: 162.886 ms

Loss rate: 2.27%

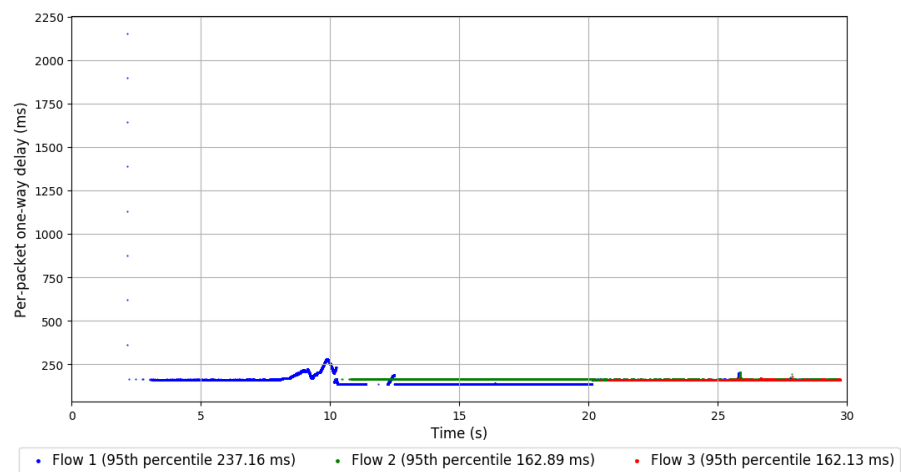
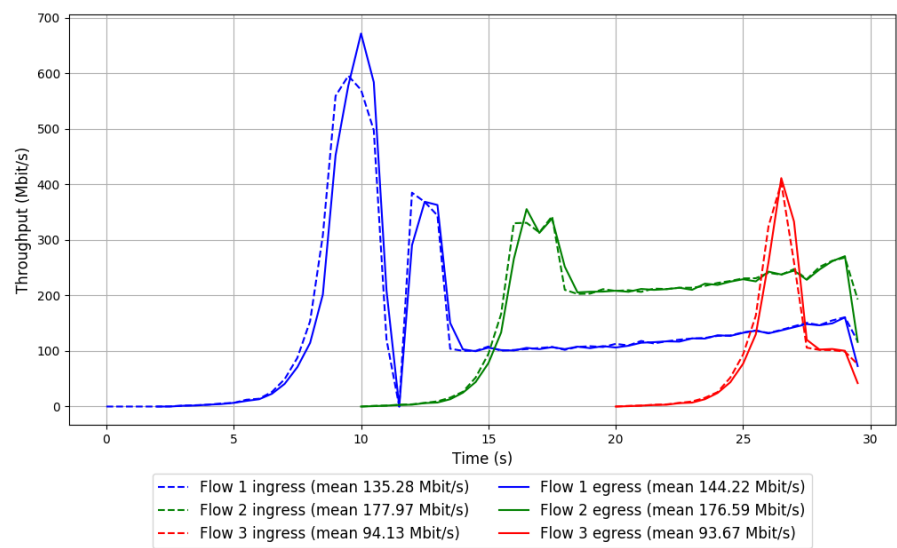
-- Flow 3:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 162.130 ms

Loss rate: 3.51%

Run 10: Report of Vivace-loss — Data Link



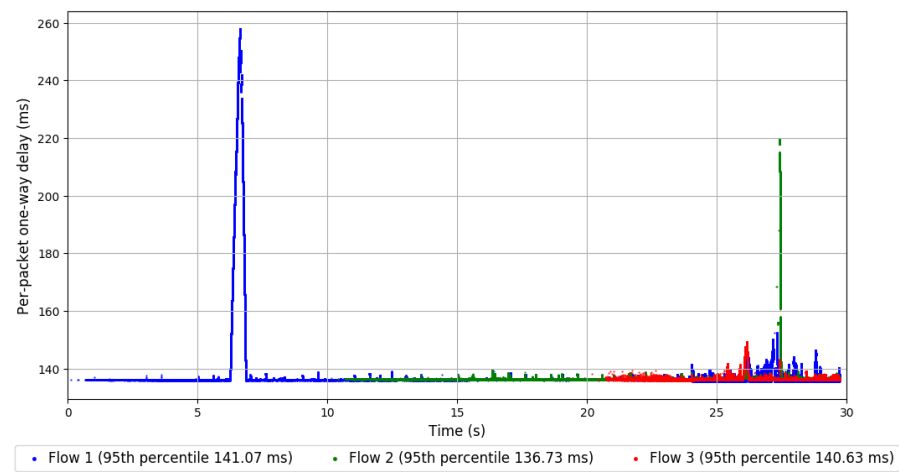
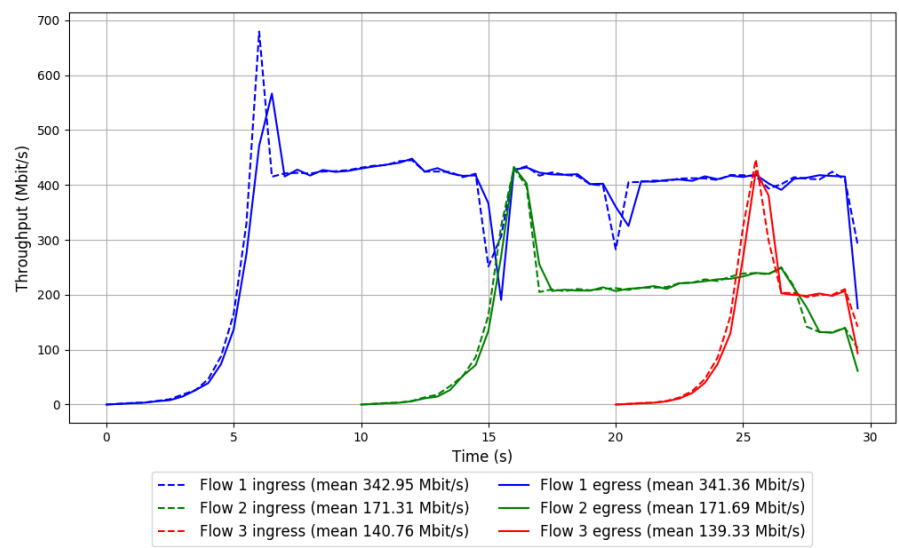
```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-01 01:17:51
End at: 2018-02-01 01:18:21

# Below is generated by plot.py at 2018-02-01 08:37:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 499.94 Mbit/s
95th percentile per-packet one-way delay: 139.788 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 341.36 Mbit/s
95th percentile per-packet one-way delay: 141.073 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 171.69 Mbit/s
95th percentile per-packet one-way delay: 136.727 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 139.33 Mbit/s
95th percentile per-packet one-way delay: 140.626 ms
Loss rate: 3.79%
```



Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-01 01:37:24

End at: 2018-02-01 01:37:54

# Below is generated by plot.py at 2018-02-01 08:37:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 471.08 Mbit/s

95th percentile per-packet one-way delay: 138.176 ms

Loss rate: 1.55%

-- Flow 1:

Average throughput: 320.94 Mbit/s

95th percentile per-packet one-way delay: 139.501 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 179.31 Mbit/s

95th percentile per-packet one-way delay: 136.830 ms

Loss rate: 1.98%

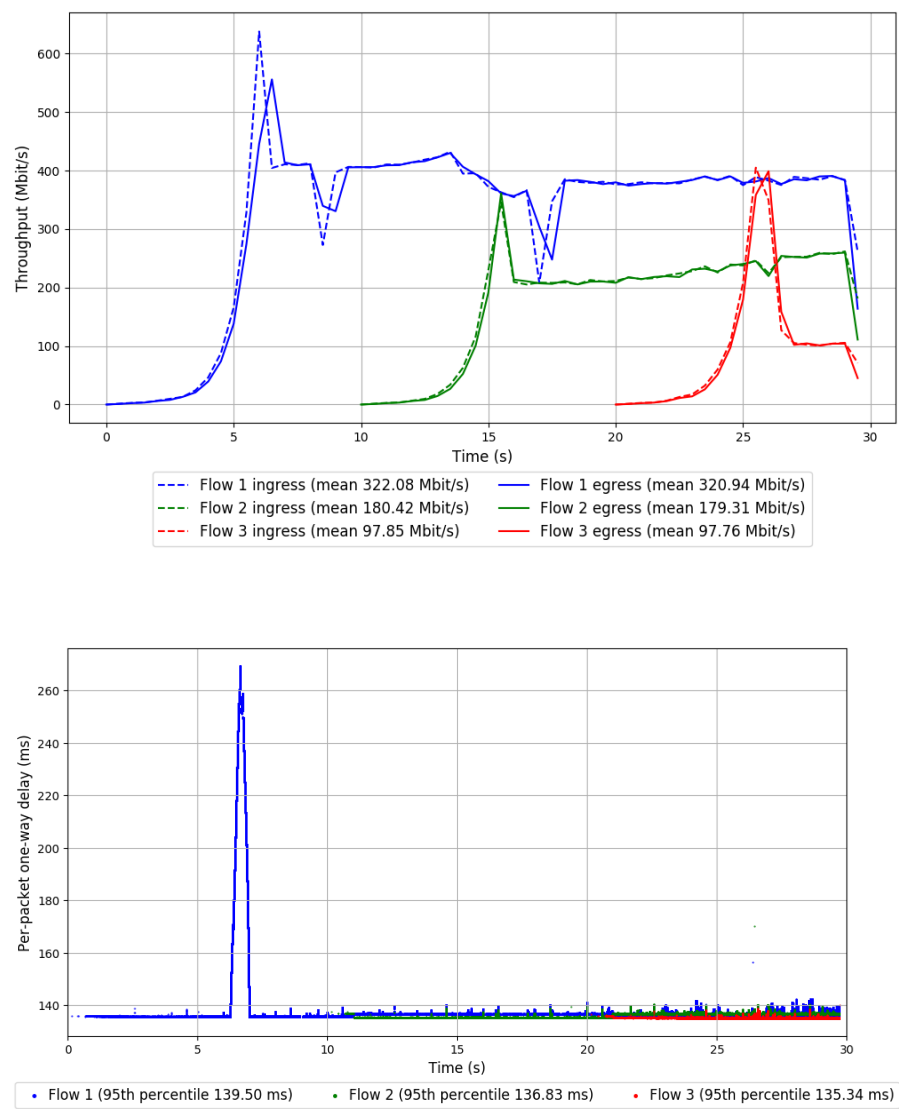
-- Flow 3:

Average throughput: 97.76 Mbit/s

95th percentile per-packet one-way delay: 135.339 ms

Loss rate: 2.82%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-01 01:56:03

End at: 2018-02-01 01:56:33

# Below is generated by plot.py at 2018-02-01 08:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 470.05 Mbit/s

95th percentile per-packet one-way delay: 162.724 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 305.95 Mbit/s

95th percentile per-packet one-way delay: 136.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.19 Mbit/s

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

Loss rate: 1.39%

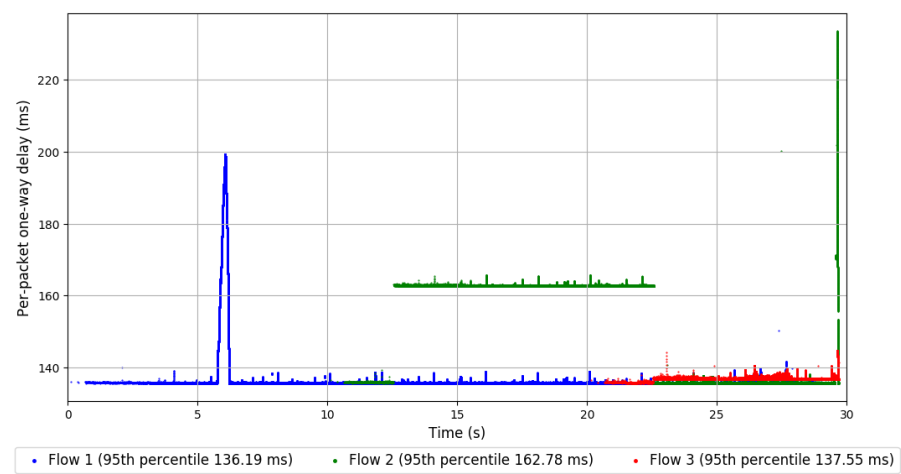
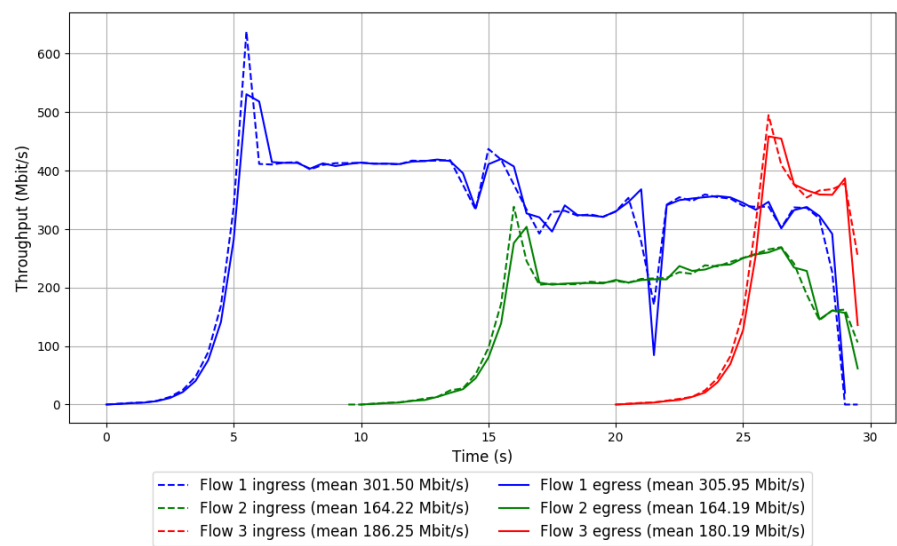
-- Flow 3:

Average throughput: 180.19 Mbit/s

95th percentile per-packet one-way delay: 137.548 ms

Loss rate: 5.91%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

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

End at: 2018-02-01 02:15:05

# Below is generated by plot.py at 2018-02-01 08:37:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 362.63 Mbit/s

95th percentile per-packet one-way delay: 136.724 ms

Loss rate: 1.68%

-- Flow 1:

Average throughput: 206.10 Mbit/s

95th percentile per-packet one-way delay: 136.667 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 182.28 Mbit/s

95th percentile per-packet one-way delay: 136.430 ms

Loss rate: 1.71%

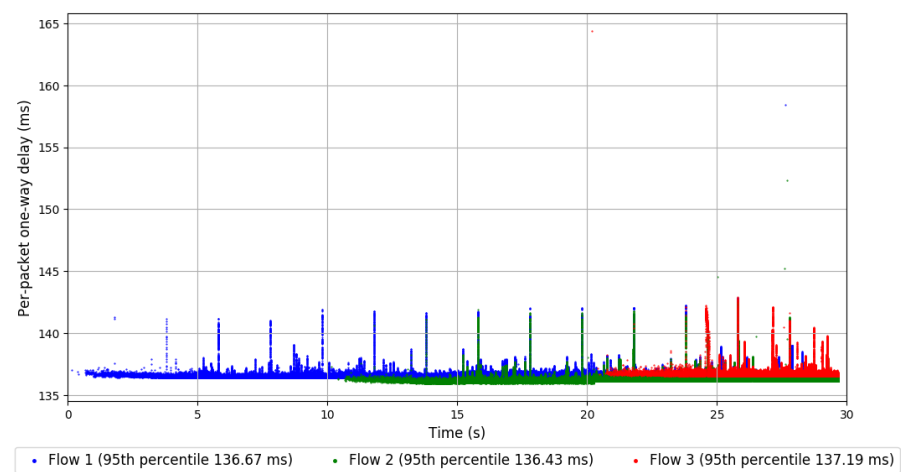
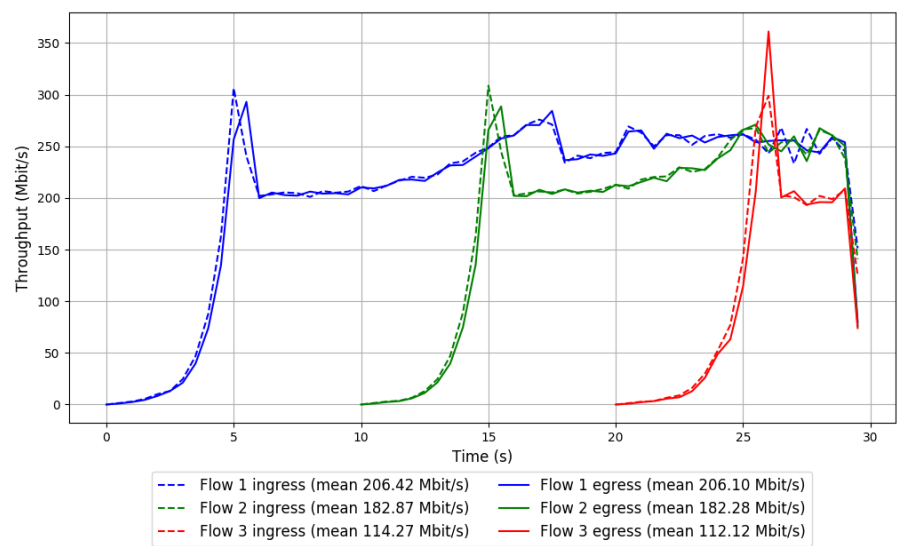
-- Flow 3:

Average throughput: 112.12 Mbit/s

95th percentile per-packet one-way delay: 137.195 ms

Loss rate: 4.92%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-01 02:32:39

End at: 2018-02-01 02:33:09

# Below is generated by plot.py at 2018-02-01 08:37:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 403.93 Mbit/s

95th percentile per-packet one-way delay: 137.185 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 207.14 Mbit/s

95th percentile per-packet one-way delay: 136.321 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 246.15 Mbit/s

95th percentile per-packet one-way delay: 195.408 ms

Loss rate: 1.33%

-- Flow 3:

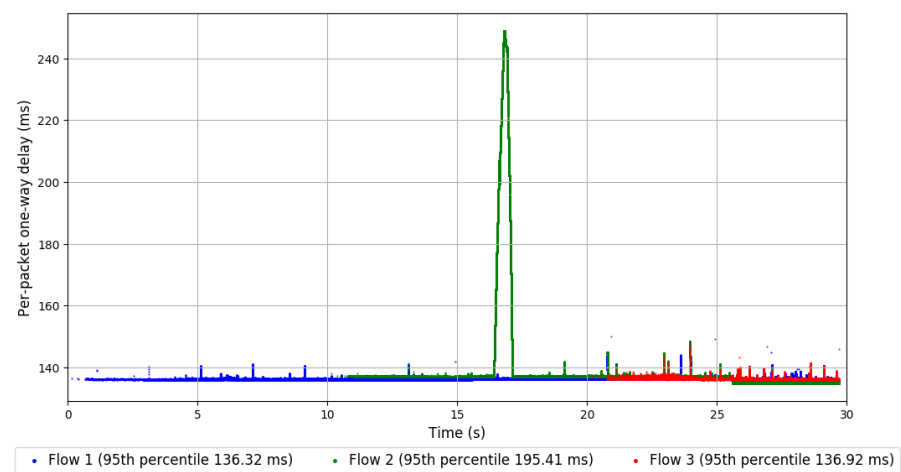
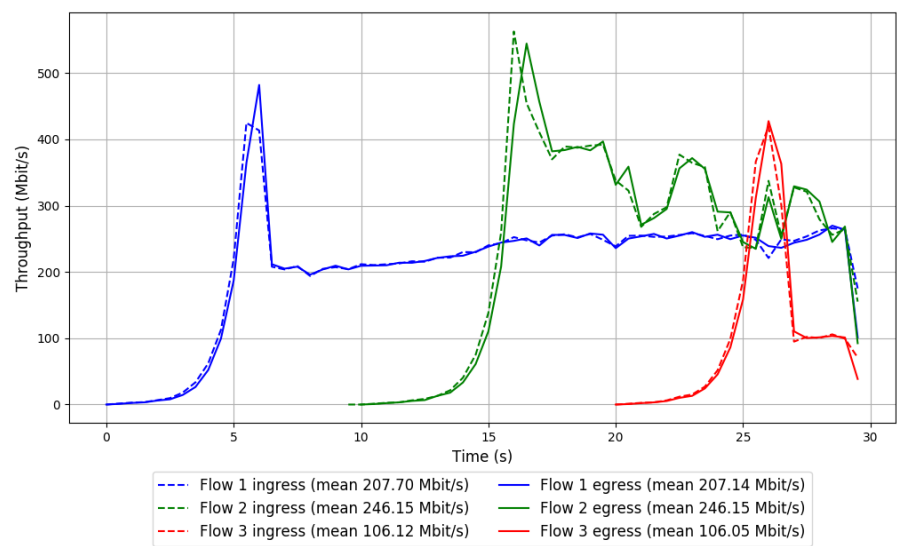
Average throughput: 106.05 Mbit/s

95th percentile per-packet one-way delay: 136.917 ms

Loss rate: 2.87%



Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-01 02:50:43

End at: 2018-02-01 02:51:13

# Below is generated by plot.py at 2018-02-01 08:37:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 351.63 Mbit/s

95th percentile per-packet one-way delay: 162.877 ms

Loss rate: 1.87%

-- Flow 1:

Average throughput: 196.62 Mbit/s

95th percentile per-packet one-way delay: 162.993 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 180.02 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 1.84%

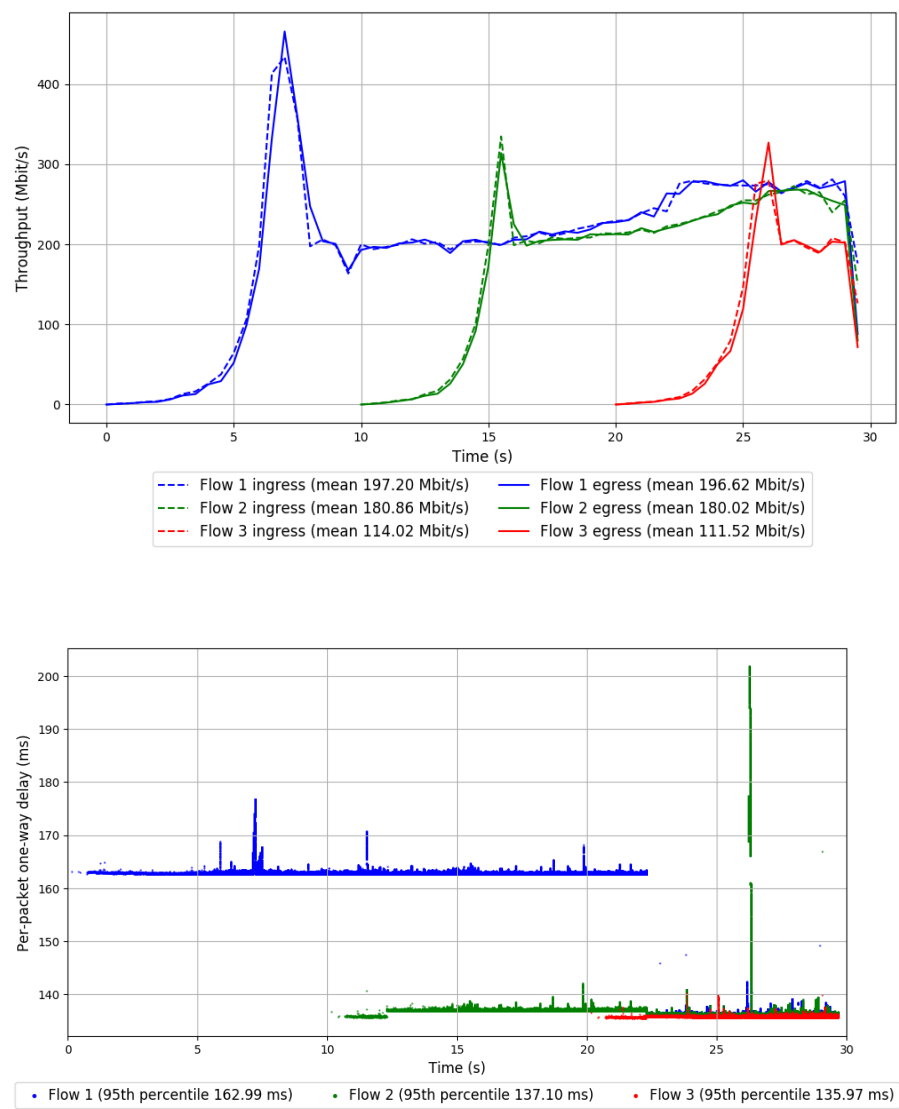
-- Flow 3:

Average throughput: 111.52 Mbit/s

95th percentile per-packet one-way delay: 135.969 ms

Loss rate: 4.93%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-01 03:08:39

End at: 2018-02-01 03:09:09

# Below is generated by plot.py at 2018-02-01 08:38:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 346.55 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 198.91 Mbit/s

95th percentile per-packet one-way delay: 135.511 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 167.21 Mbit/s

95th percentile per-packet one-way delay: 136.462 ms

Loss rate: 1.69%

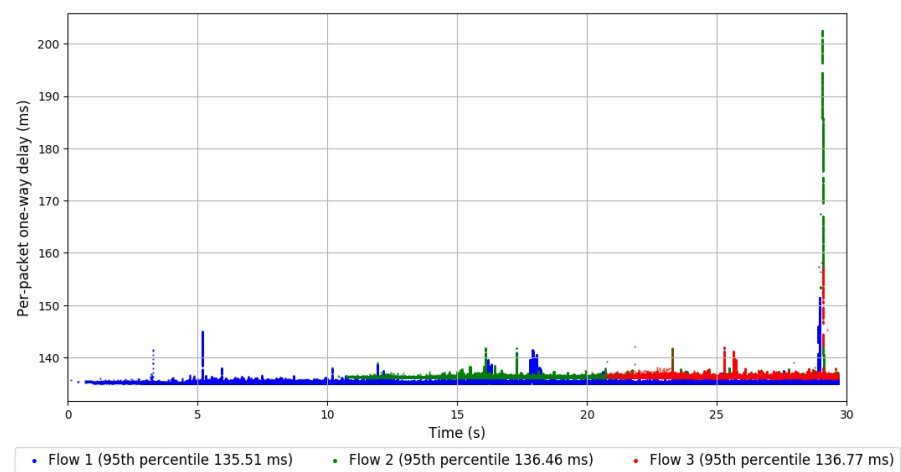
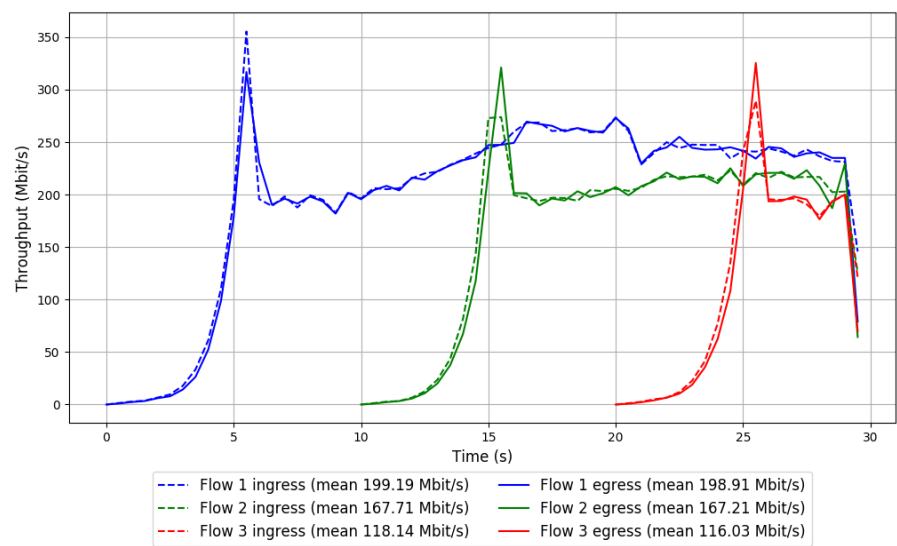
-- Flow 3:

Average throughput: 116.03 Mbit/s

95th percentile per-packet one-way delay: 136.767 ms

Loss rate: 4.55%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-01 03:26:48

End at: 2018-02-01 03:27:18

# Below is generated by plot.py at 2018-02-01 08:38:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 361.52 Mbit/s

95th percentile per-packet one-way delay: 137.322 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 214.18 Mbit/s

95th percentile per-packet one-way delay: 137.623 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 169.93 Mbit/s

95th percentile per-packet one-way delay: 136.810 ms

Loss rate: 1.65%

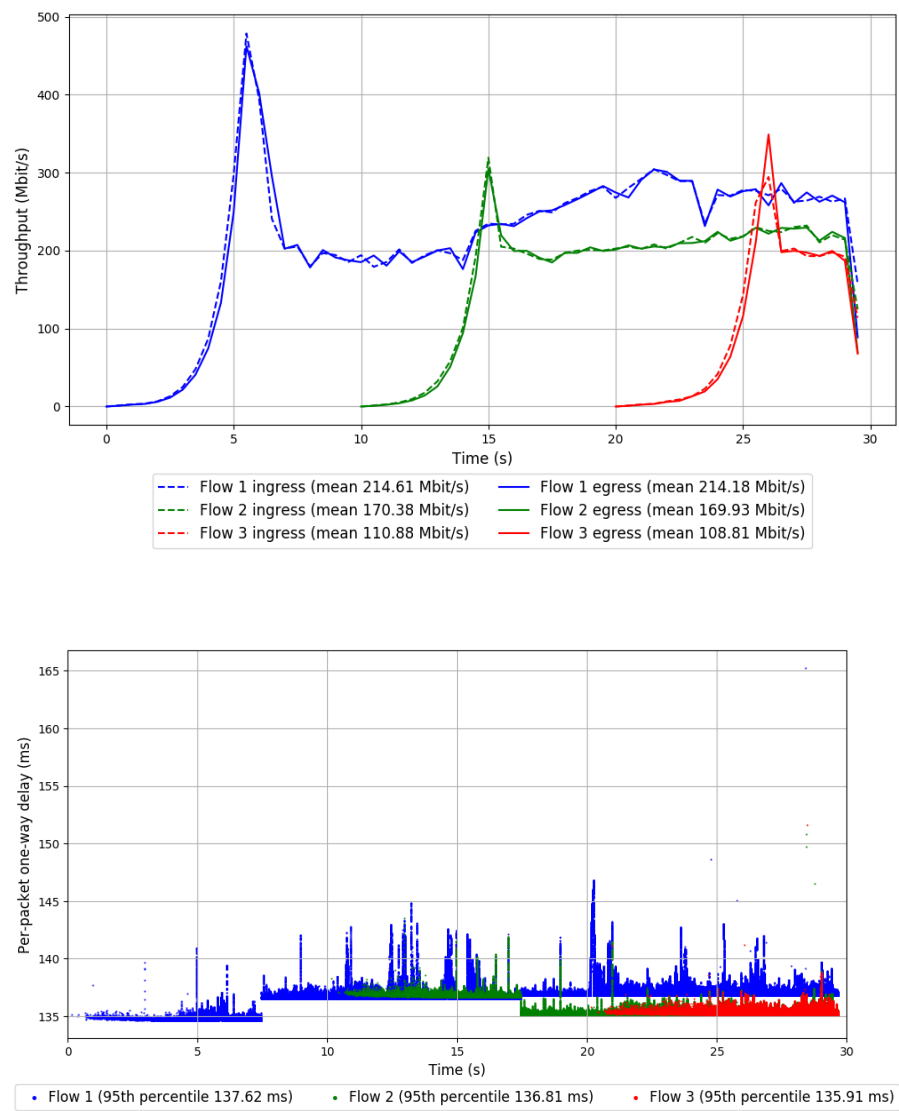
-- Flow 3:

Average throughput: 108.81 Mbit/s

95th percentile per-packet one-way delay: 135.915 ms

Loss rate: 4.61%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-01 03:45:14

End at: 2018-02-01 03:45:44

# Below is generated by plot.py at 2018-02-01 08:39:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 297.20 Mbit/s

95th percentile per-packet one-way delay: 180.789 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 151.43 Mbit/s

95th percentile per-packet one-way delay: 161.986 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 157.64 Mbit/s

95th percentile per-packet one-way delay: 191.462 ms

Loss rate: 1.97%

-- Flow 3:

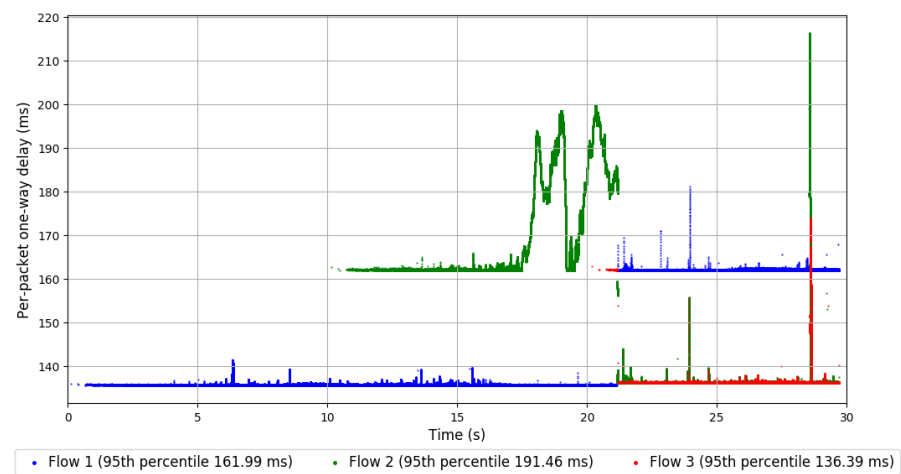
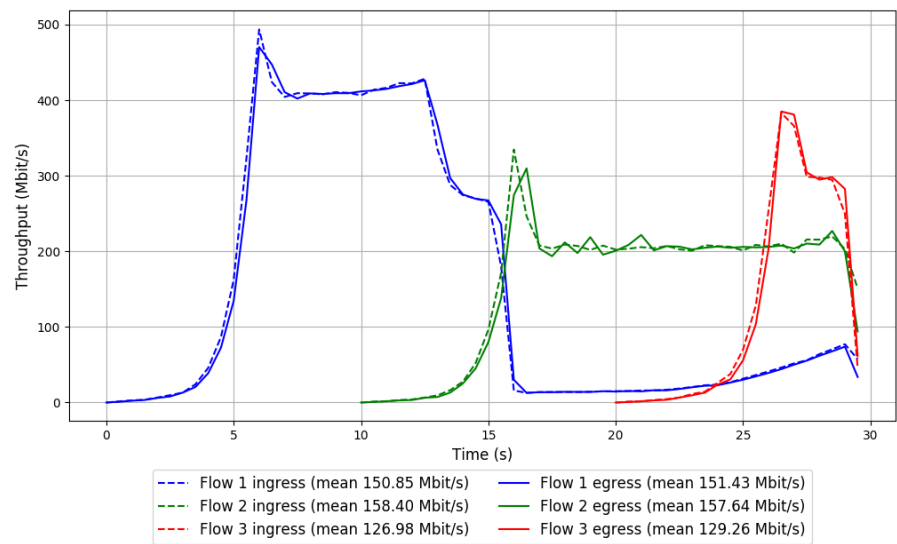
Average throughput: 129.26 Mbit/s

95th percentile per-packet one-way delay: 136.394 ms

Loss rate: 1.26%



Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-01 04:03:58
End at: 2018-02-01 04:04:28

# Below is generated by plot.py at 2018-02-01 08:39:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.55 Mbit/s
95th percentile per-packet one-way delay: 162.130 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 176.71 Mbit/s
95th percentile per-packet one-way delay: 167.111 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 192.31 Mbit/s
95th percentile per-packet one-way delay: 156.305 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 101.15 Mbit/s
95th percentile per-packet one-way delay: 162.140 ms
Loss rate: 3.22%
```

Run 10: Report of Vivace-LTE — Data Link

