

## Pantheon Report

Generated at 2018-01-10 07:12:17 (UTC).

Data path: AWS Brazil 2 Ethernet (*local*) → Colombia Ethernet (*remote*).

Repeated the test of 14 congestion control schemes 10 times.

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

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

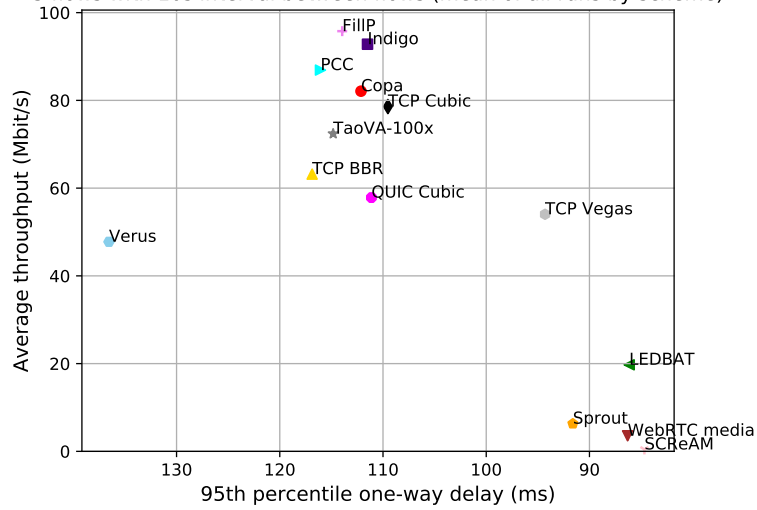
Tested BBR with qdisc of Fair Queuing (*fq*), and other schemes with the default Linux qdisc (*pfifo\_fast*).

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

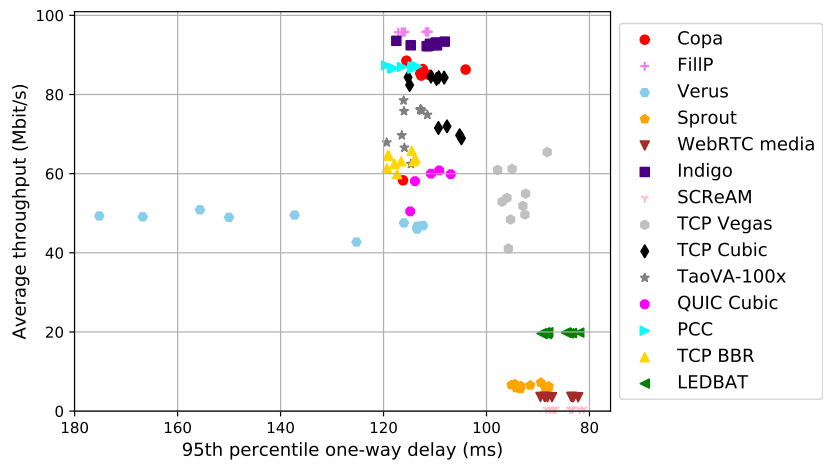
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from AWS Brazil 2 Ethernet to Colombia 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	9	35.64	29.05	22.14	116.20	116.39	116.54	27.83	28.89	26.24
TCP Cubic	10	46.51	38.62	19.20	108.00	110.38	109.07	0.40	0.79	0.93
LEDBAT	10	12.75	8.47	4.08	85.87	85.46	85.70	0.00	0.00	0.00
PCC	8	77.95	9.68	7.66	116.01	115.80	115.07	2.85	5.43	4.27
QUIC Cubic	5	41.35	20.13	9.60	111.32	109.77	108.19	0.70	0.45	1.43
SCReAM	10	0.22	0.22	0.22	84.33	83.88	84.19	0.00	0.00	0.00
WebRTC media	10	2.02	1.20	0.35	85.42	85.56	86.51	0.00	0.00	0.00
Sprout	10	3.16	3.53	2.41	91.49	91.41	90.55	0.00	0.00	0.00
TaoVA-100x	10	45.91	31.76	21.64	114.47	115.56	114.60	4.08	8.36	9.69
TCP Vegas	10	23.52	30.23	31.33	93.36	95.79	95.70	0.65	0.82	1.47
Verus	10	32.75	14.62	17.58	136.31	119.70	121.35	51.42	36.70	45.71
Copa	7	66.16	79.47	37.88	398.89	110.64	106.93	6.80	18.18	13.58
FillP	10	55.99	40.45	38.85	113.69	113.17	123.30	24.28	36.18	48.43
Indigo	9	65.78	26.66	29.12	111.09	112.14	112.67	1.45	2.60	4.37

Run 1: Statistics of TCP BBR

Start at: 2018-01-10 03:06:54

End at: 2018-01-10 03:07:24

Local clock offset: 1.948 ms

Remote clock offset: 0.975 ms

# Below is generated by plot.py at 2018-01-10 06:43:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 117.354 ms

Loss rate: 30.19%

-- Flow 1:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 117.150 ms

Loss rate: 29.35%

-- Flow 2:

Average throughput: 25.84 Mbit/s

95th percentile per-packet one-way delay: 117.474 ms

Loss rate: 31.85%

-- Flow 3:

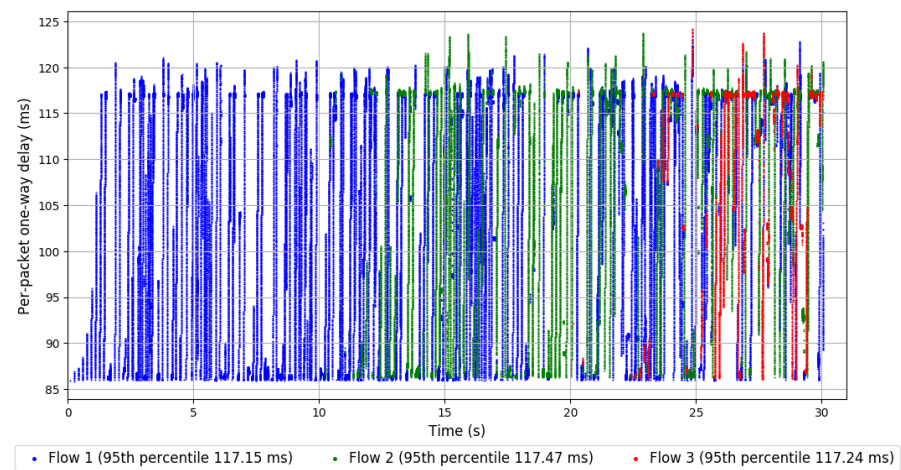
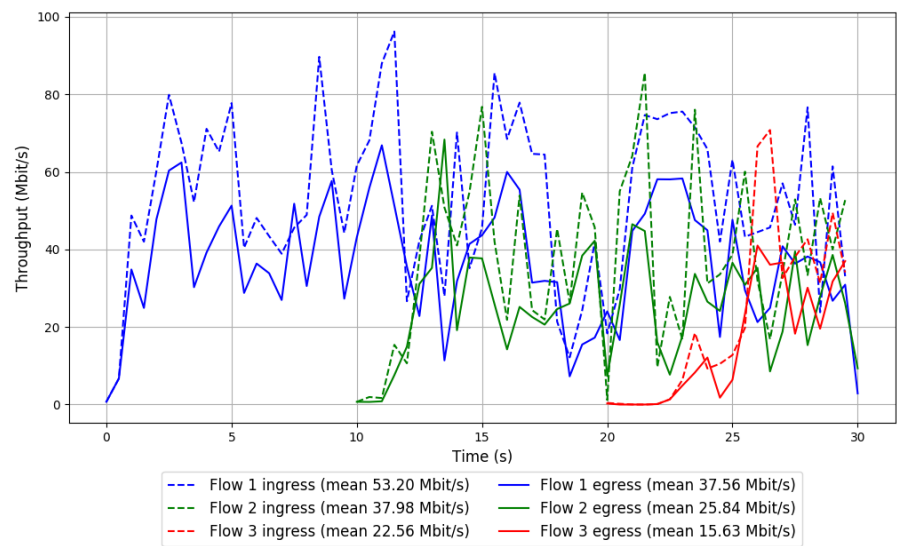
Average throughput: 15.63 Mbit/s

95th percentile per-packet one-way delay: 117.243 ms

Loss rate: 30.56%



Run 1: Report of TCP BBR — Data Link

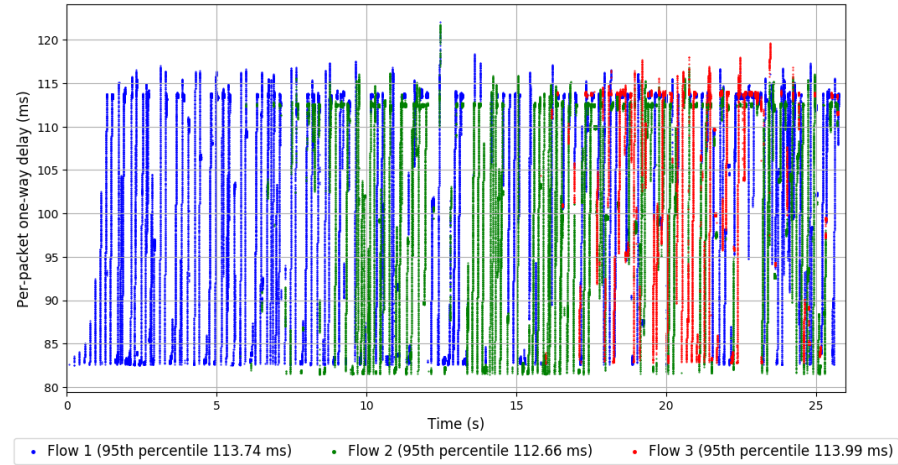
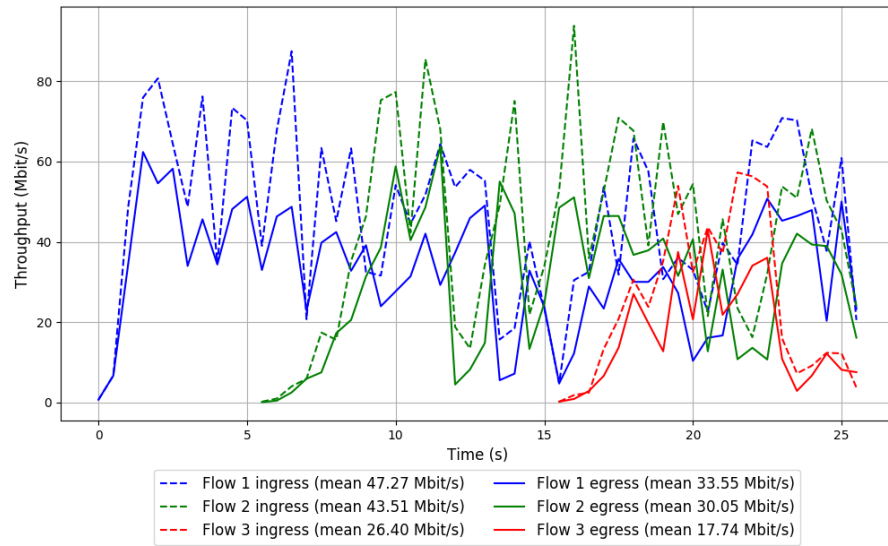


Run 2: Statistics of TCP BBR

Start at: 2018-01-10 03:26:23  
End at: 2018-01-10 03:26:53  
Local clock offset: 2.349 ms  
Remote clock offset: -4.505 ms

# Below is generated by plot.py at 2018-01-10 06:43:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.77 Mbit/s  
95th percentile per-packet one-way delay: 113.808 ms  
Loss rate: 30.07%  
-- Flow 1:  
Average throughput: 33.55 Mbit/s  
95th percentile per-packet one-way delay: 113.737 ms  
Loss rate: 28.93%  
-- Flow 2:  
Average throughput: 30.05 Mbit/s  
95th percentile per-packet one-way delay: 112.664 ms  
Loss rate: 30.85%  
-- Flow 3:  
Average throughput: 17.74 Mbit/s  
95th percentile per-packet one-way delay: 113.992 ms  
Loss rate: 32.74%

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



Run 3: Statistics of TCP BBR

Start at: 2018-01-10 03:46:00

End at: 2018-01-10 03:46:30

Local clock offset: 2.6 ms

Remote clock offset: 0.355 ms

# Below is generated by plot.py at 2018-01-10 06:43:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.56 Mbit/s

95th percentile per-packet one-way delay: 119.004 ms

Loss rate: 23.62%

-- Flow 1:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 118.505 ms

Loss rate: 28.04%

-- Flow 2:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 119.066 ms

Loss rate: 12.93%

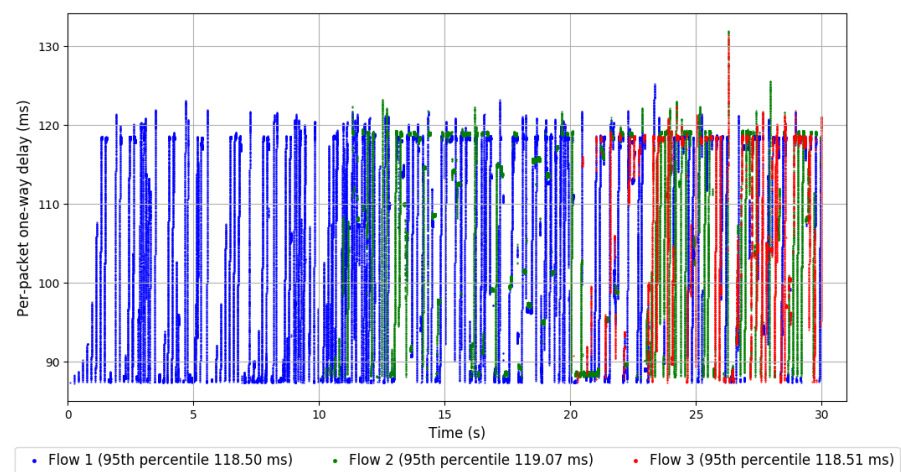
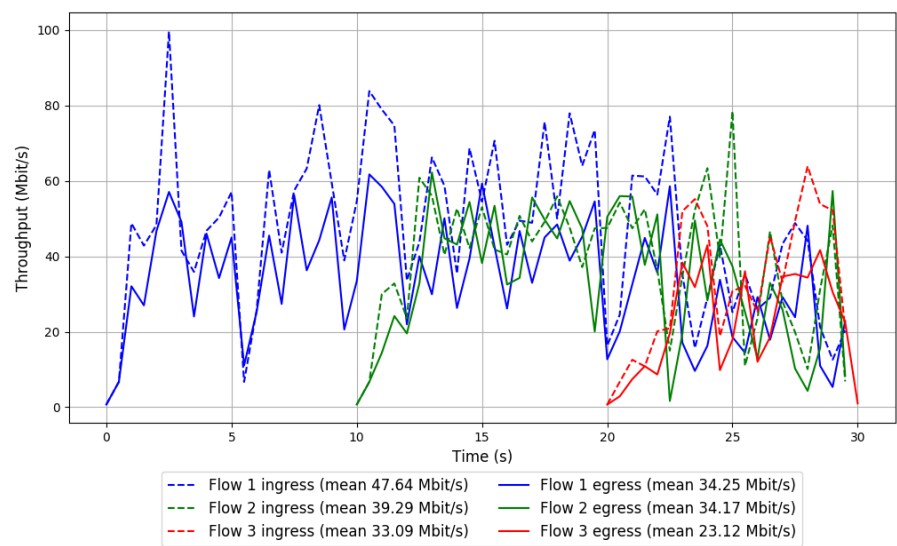
-- Flow 3:

Average throughput: 23.12 Mbit/s

95th percentile per-packet one-way delay: 118.513 ms

Loss rate: 29.90%

Run 3: Report of TCP BBR — Data Link

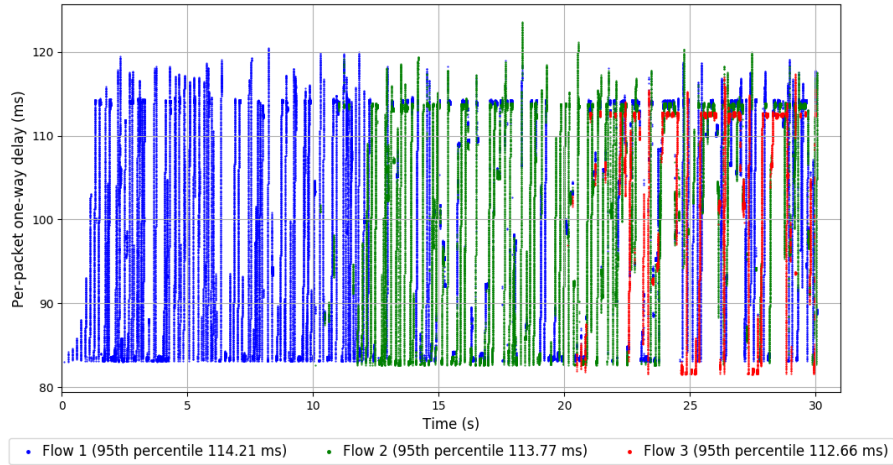
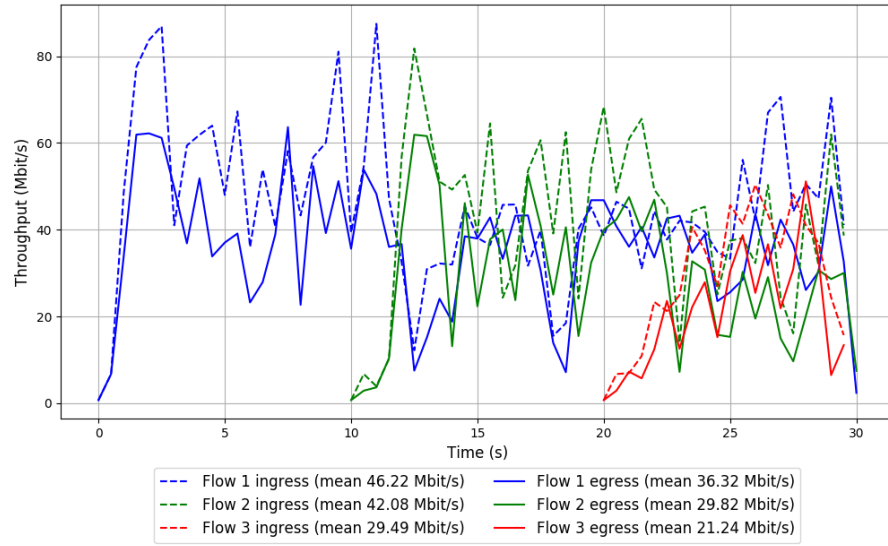


Run 4: Statistics of TCP BBR

Start at: 2018-01-10 04:05:21  
End at: 2018-01-10 04:05:51  
Local clock offset: 2.795 ms  
Remote clock offset: -3.959 ms

# Below is generated by plot.py at 2018-01-10 06:43:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.16 Mbit/s  
95th percentile per-packet one-way delay: 114.152 ms  
Loss rate: 24.68%  
-- Flow 1:  
Average throughput: 36.32 Mbit/s  
95th percentile per-packet one-way delay: 114.208 ms  
Loss rate: 21.39%  
-- Flow 2:  
Average throughput: 29.82 Mbit/s  
95th percentile per-packet one-way delay: 113.771 ms  
Loss rate: 29.00%  
-- Flow 3:  
Average throughput: 21.24 Mbit/s  
95th percentile per-packet one-way delay: 112.657 ms  
Loss rate: 27.86%

# Run 4: Report of TCP BBR — Data Link



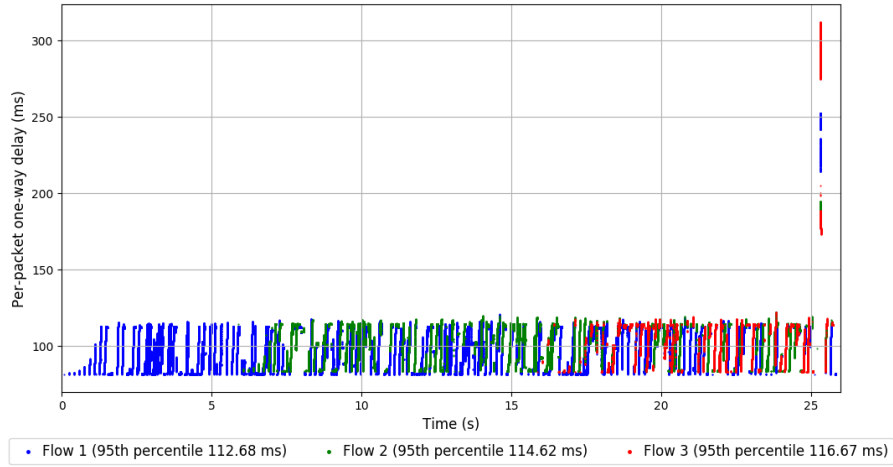
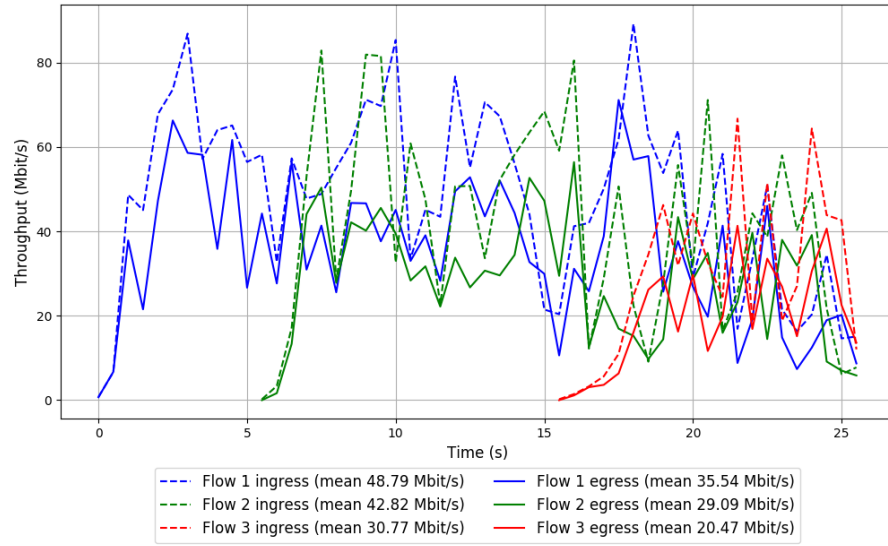
Run 5: Statistics of TCP BBR

Start at: 2018-01-10 04:25:05  
End at: 2018-01-10 04:25:35  
Local clock offset: 2.47 ms  
Remote clock offset: -3.409 ms

# Below is generated by plot.py at 2018-01-10 06:43:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.80 Mbit/s  
95th percentile per-packet one-way delay: 114.527 ms  
Loss rate: 29.65%  
-- Flow 1:  
Average throughput: 35.54 Mbit/s  
95th percentile per-packet one-way delay: 112.677 ms  
Loss rate: 27.14%  
-- Flow 2:  
Average throughput: 29.09 Mbit/s  
95th percentile per-packet one-way delay: 114.618 ms  
Loss rate: 32.06%  
-- Flow 3:  
Average throughput: 20.47 Mbit/s  
95th percentile per-packet one-way delay: 116.669 ms  
Loss rate: 33.27%



## Run 5: Report of TCP BBR — Data Link

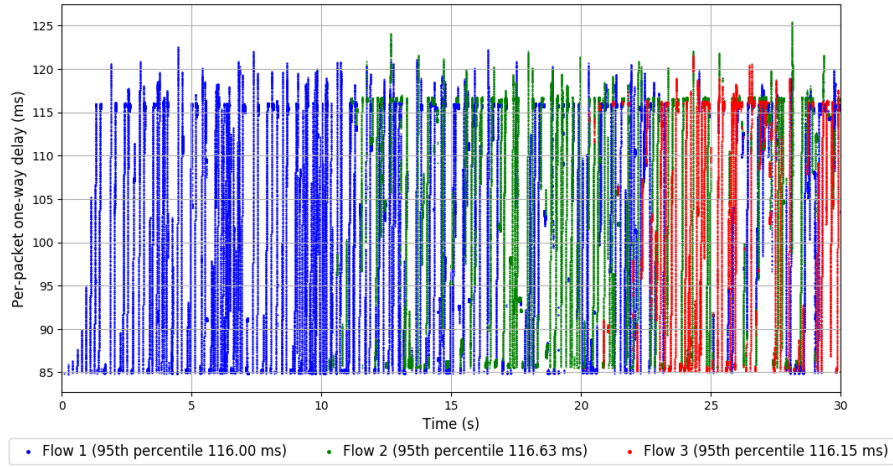
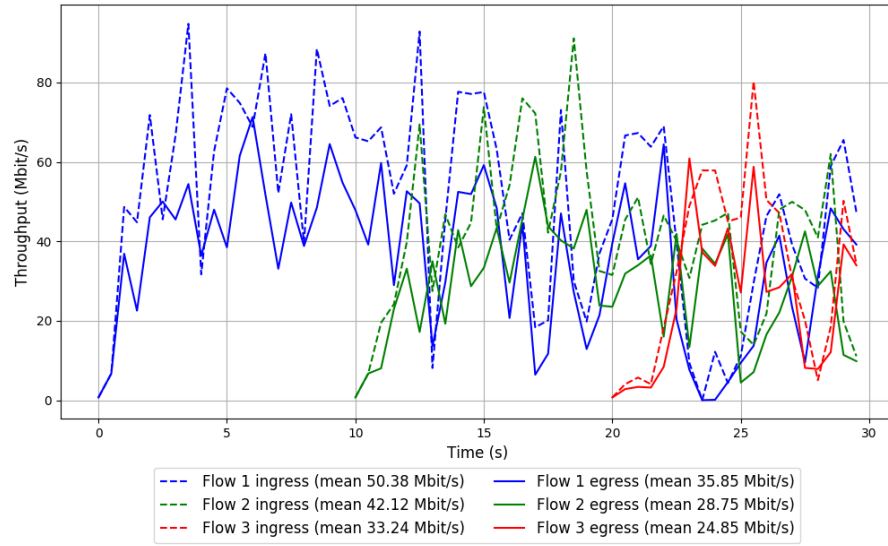


Run 6: Statistics of TCP BBR

Start at: 2018-01-10 04:44:29  
End at: 2018-01-10 04:44:59  
Local clock offset: 2.507 ms  
Remote clock offset: -0.578 ms

# Below is generated by plot.py at 2018-01-10 06:43:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.10 Mbit/s  
95th percentile per-packet one-way delay: 116.558 ms  
Loss rate: 29.25%  
-- Flow 1:  
Average throughput: 35.85 Mbit/s  
95th percentile per-packet one-way delay: 116.005 ms  
Loss rate: 28.80%  
-- Flow 2:  
Average throughput: 28.75 Mbit/s  
95th percentile per-packet one-way delay: 116.626 ms  
Loss rate: 31.64%  
-- Flow 3:  
Average throughput: 24.85 Mbit/s  
95th percentile per-packet one-way delay: 116.146 ms  
Loss rate: 25.24%

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



Run 7: Statistics of TCP BBR

Start at: 2018-01-10 05:03:00

End at: 2018-01-10 05:03:30

Local clock offset: 2.733 ms

Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2018-01-10 06:43:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.50 Mbit/s

95th percentile per-packet one-way delay: 117.867 ms

Loss rate: 29.91%

-- Flow 1:

Average throughput: 33.80 Mbit/s

95th percentile per-packet one-way delay: 117.047 ms

Loss rate: 29.65%

-- Flow 2:

Average throughput: 32.03 Mbit/s

95th percentile per-packet one-way delay: 116.709 ms

Loss rate: 30.57%

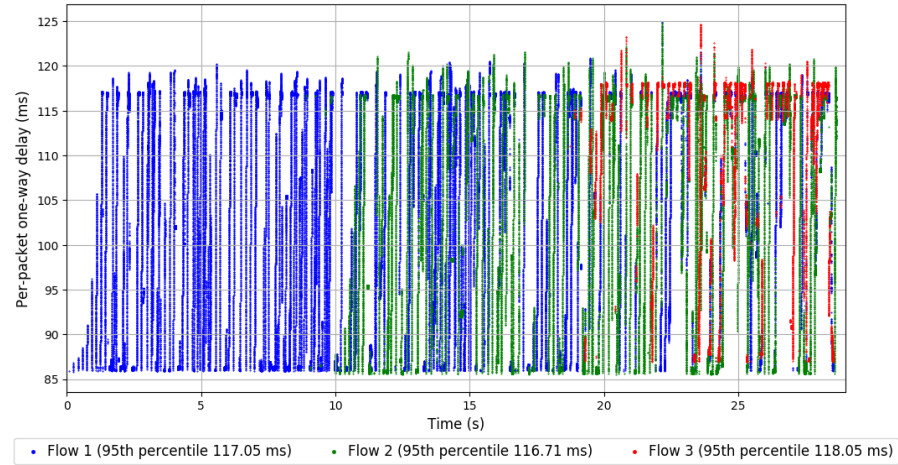
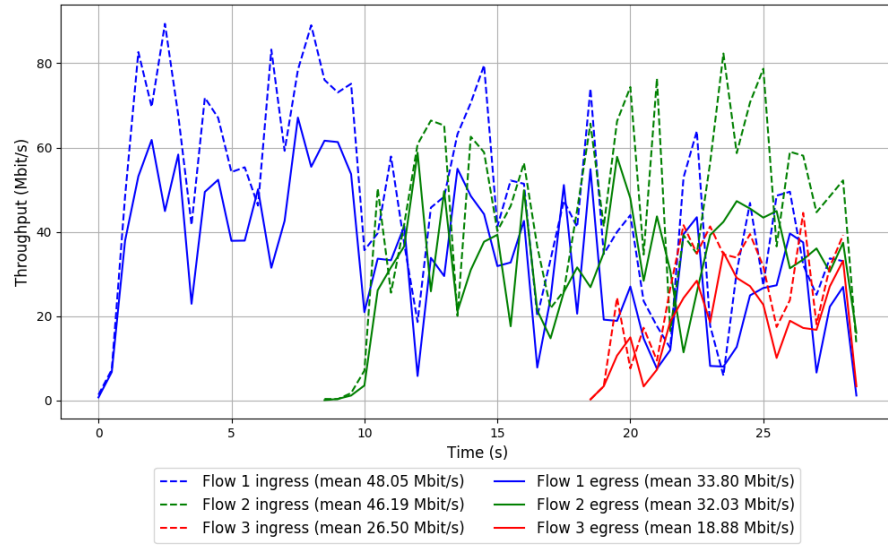
-- Flow 3:

Average throughput: 18.88 Mbit/s

95th percentile per-packet one-way delay: 118.052 ms

Loss rate: 28.95%

## Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-10 05:22:27

End at: 2018-01-10 05:22:57

Local clock offset: 3.355 ms

Remote clock offset: 1.077 ms

# Below is generated by plot.py at 2018-01-10 06:43:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.37 Mbit/s

95th percentile per-packet one-way delay: 119.339 ms

Loss rate: 27.55%

-- Flow 1:

Average throughput: 38.52 Mbit/s

95th percentile per-packet one-way delay: 117.279 ms

Loss rate: 28.07%

-- Flow 2:

Average throughput: 22.26 Mbit/s

95th percentile per-packet one-way delay: 119.553 ms

Loss rate: 30.75%

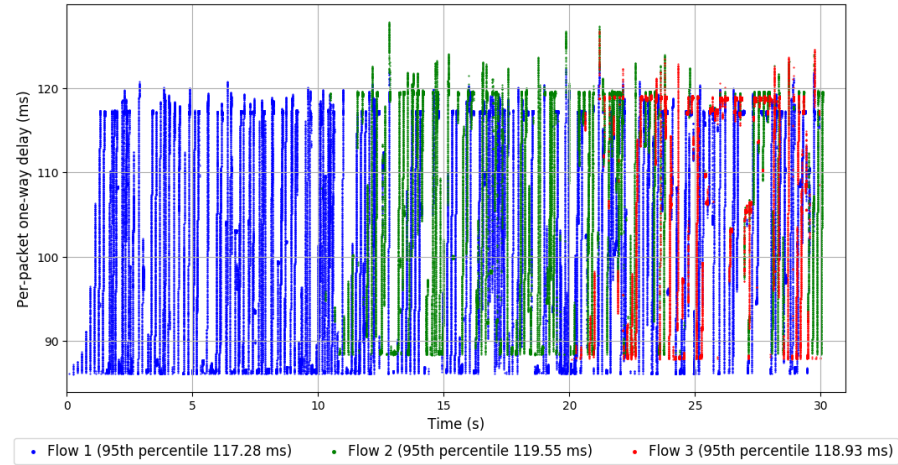
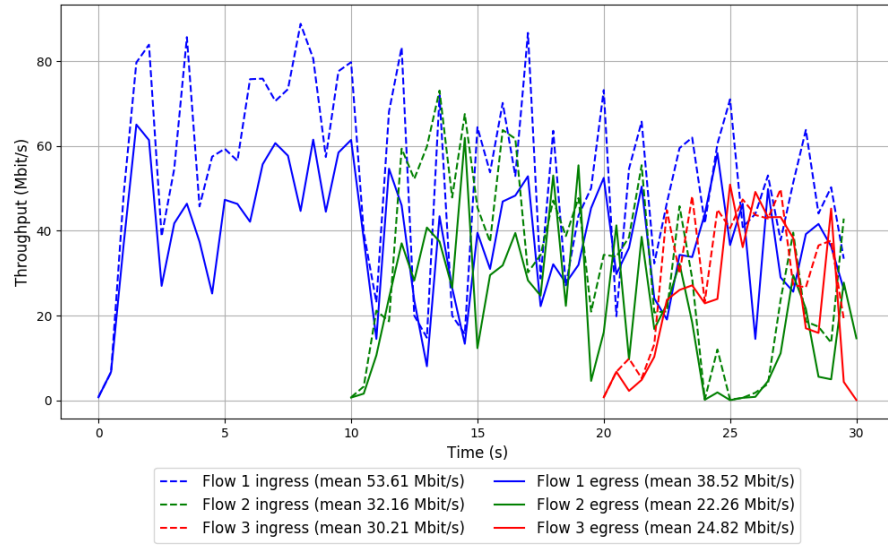
-- Flow 3:

Average throughput: 24.82 Mbit/s

95th percentile per-packet one-way delay: 118.926 ms

Loss rate: 17.85%

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



Run 9: Statistics of TCP BBR

Start at: 2018-01-10 05:41:53

End at: 2018-01-10 05:42:23

Local clock offset: 3.881 ms

Remote clock offset: 1.105 ms

# Below is generated by plot.py at 2018-01-10 06:45:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.61 Mbit/s

95th percentile per-packet one-way delay: 119.165 ms

Loss rate: 27.16%

-- Flow 1:

Average throughput: 35.38 Mbit/s

95th percentile per-packet one-way delay: 119.226 ms

Loss rate: 29.12%

-- Flow 2:

Average throughput: 29.42 Mbit/s

95th percentile per-packet one-way delay: 116.989 ms

Loss rate: 30.33%

-- Flow 3:

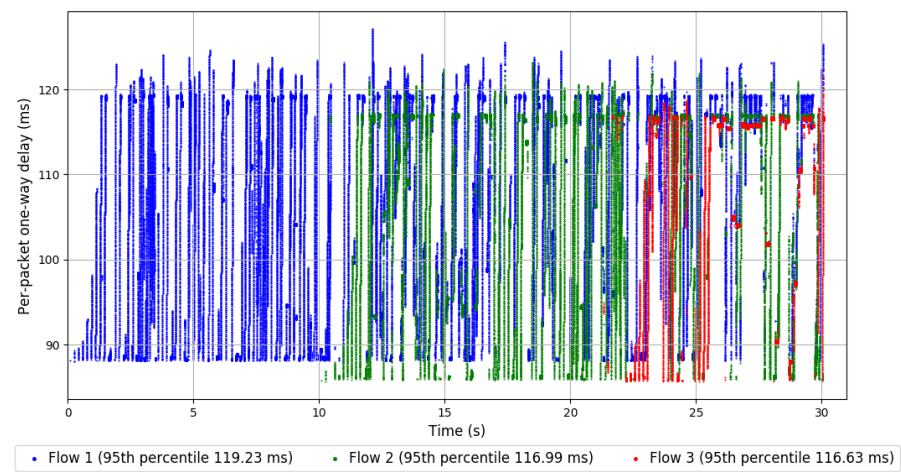
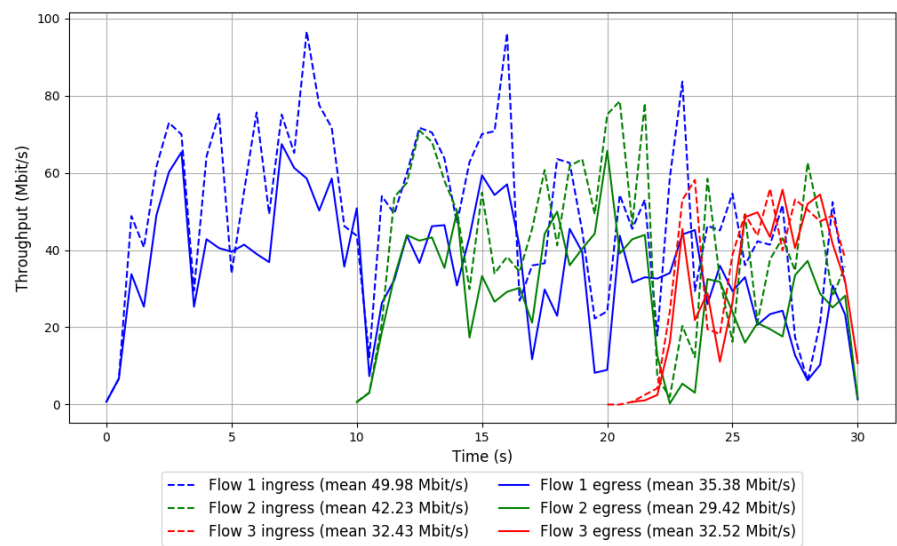
Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 116.626 ms

Loss rate: 9.80%



Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

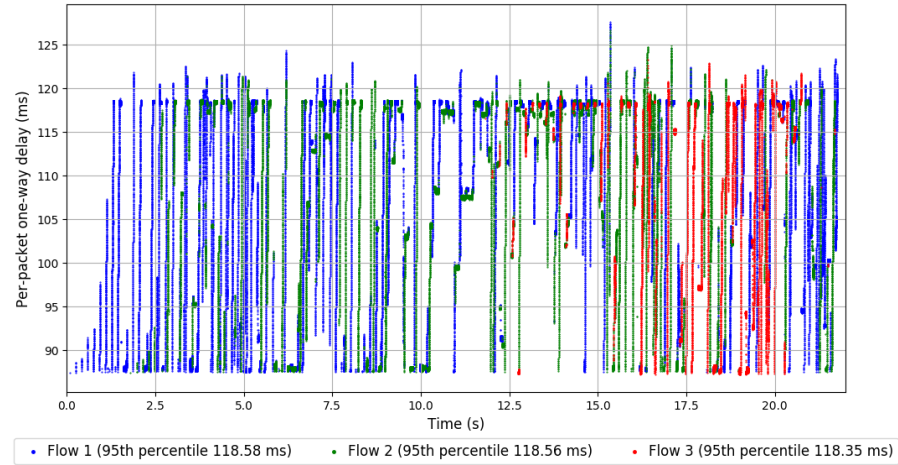
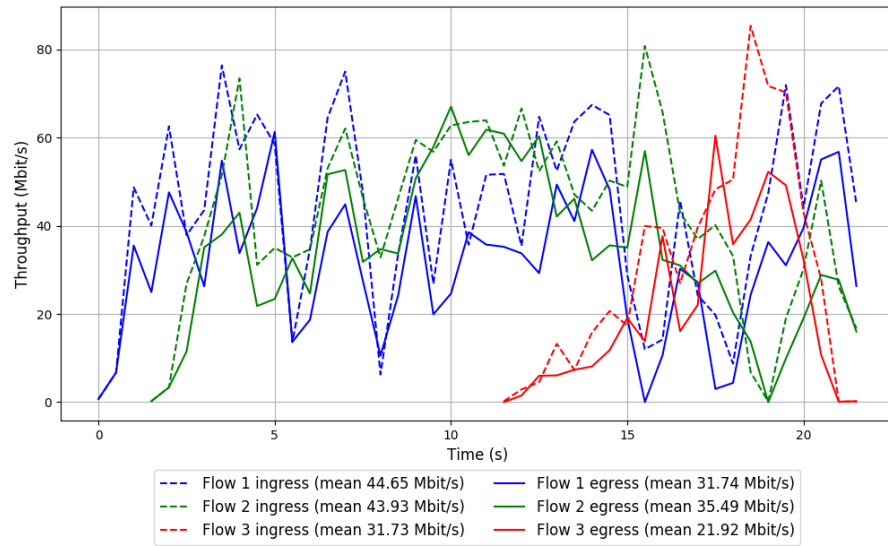
Start at: 2018-01-10 06:01:21

End at: 2018-01-10 06:01:51

Local clock offset: 4.1 ms

Remote clock offset: 1.247 ms

# Run 10: Report of TCP BBR — Data Link

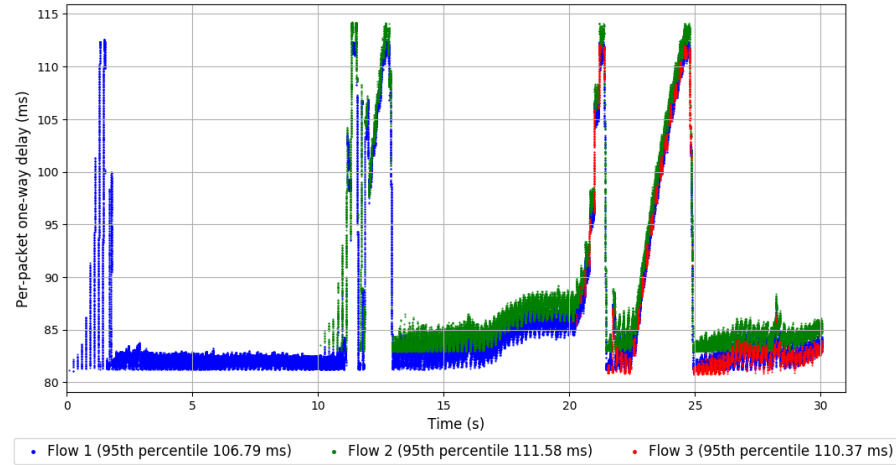
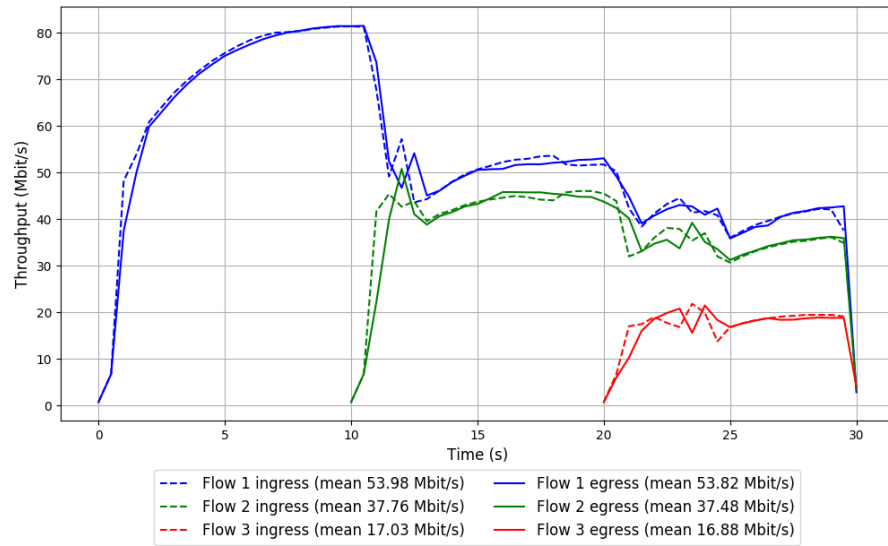


Run 1: Statistics of TCP Cubic

Start at: 2018-01-10 03:02:50  
End at: 2018-01-10 03:03:20  
Local clock offset: 1.825 ms  
Remote clock offset: -4.207 ms

# Below is generated by plot.py at 2018-01-10 06:45:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.36 Mbit/s  
95th percentile per-packet one-way delay: 109.284 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 53.82 Mbit/s  
95th percentile per-packet one-way delay: 106.789 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 37.48 Mbit/s  
95th percentile per-packet one-way delay: 111.584 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 16.88 Mbit/s  
95th percentile per-packet one-way delay: 110.371 ms  
Loss rate: 0.89%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-10 03:22:20

End at: 2018-01-10 03:22:50

Local clock offset: 2.264 ms

Remote clock offset: 0.716 ms

# Below is generated by plot.py at 2018-01-10 06:45:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 114.930 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 51.85 Mbit/s

95th percentile per-packet one-way delay: 112.626 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 37.47 Mbit/s

95th percentile per-packet one-way delay: 116.388 ms

Loss rate: 0.72%

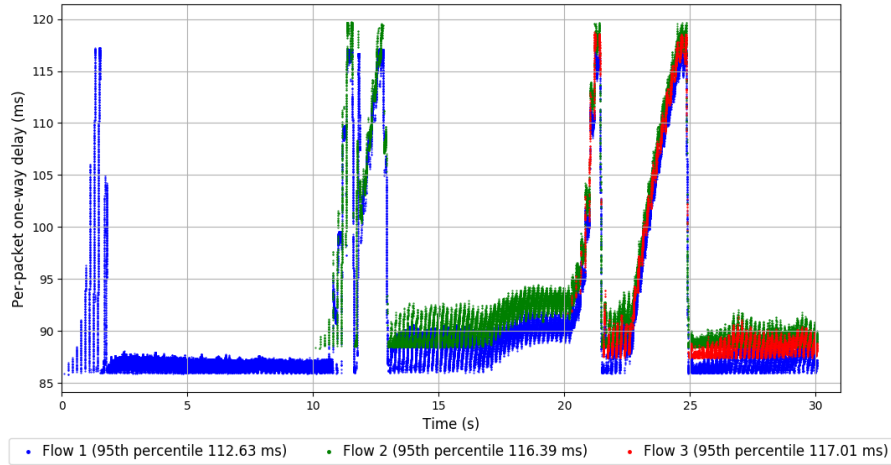
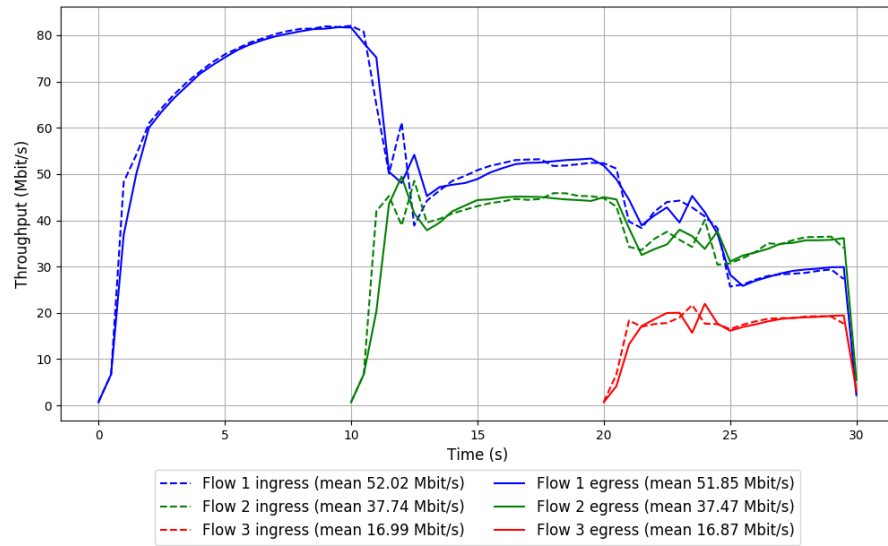
-- Flow 3:

Average throughput: 16.87 Mbit/s

95th percentile per-packet one-way delay: 117.007 ms

Loss rate: 0.72%

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



Run 3: Statistics of TCP Cubic

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

End at: 2018-01-10 03:42:31

Local clock offset: 2.553 ms

Remote clock offset: 0.65 ms

# Below is generated by plot.py at 2018-01-10 06:45:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.94 Mbit/s

95th percentile per-packet one-way delay: 107.673 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 107.832 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 107.538 ms

Loss rate: 0.57%

-- Flow 3:

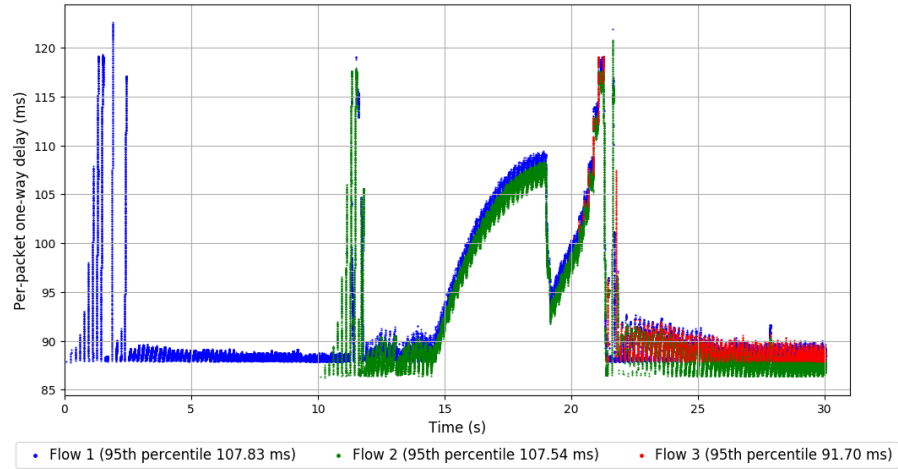
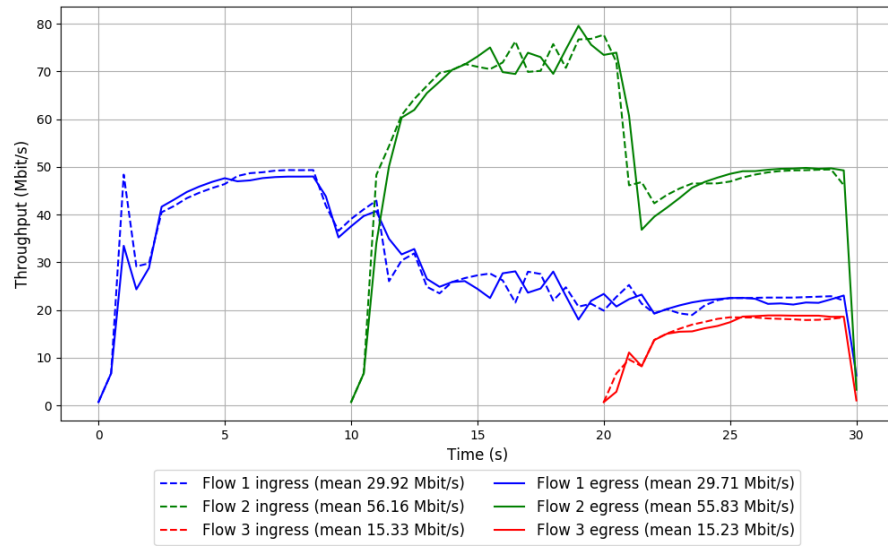
Average throughput: 15.23 Mbit/s

95th percentile per-packet one-way delay: 91.702 ms

Loss rate: 0.78%



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



Run 4: Statistics of TCP Cubic

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

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

Local clock offset: 2.765 ms

Remote clock offset: -3.67 ms

# Below is generated by plot.py at 2018-01-10 06:45:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.54 Mbit/s

95th percentile per-packet one-way delay: 109.338 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 47.26 Mbit/s

95th percentile per-packet one-way delay: 108.111 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 32.83 Mbit/s

95th percentile per-packet one-way delay: 110.785 ms

Loss rate: 0.74%

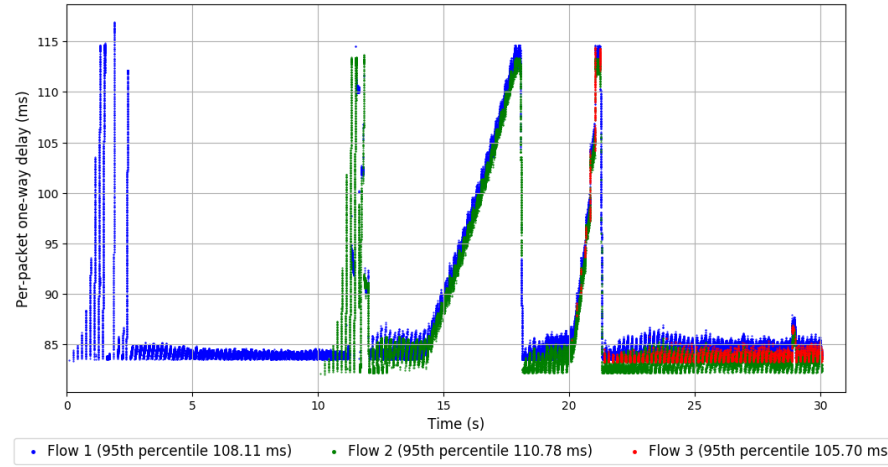
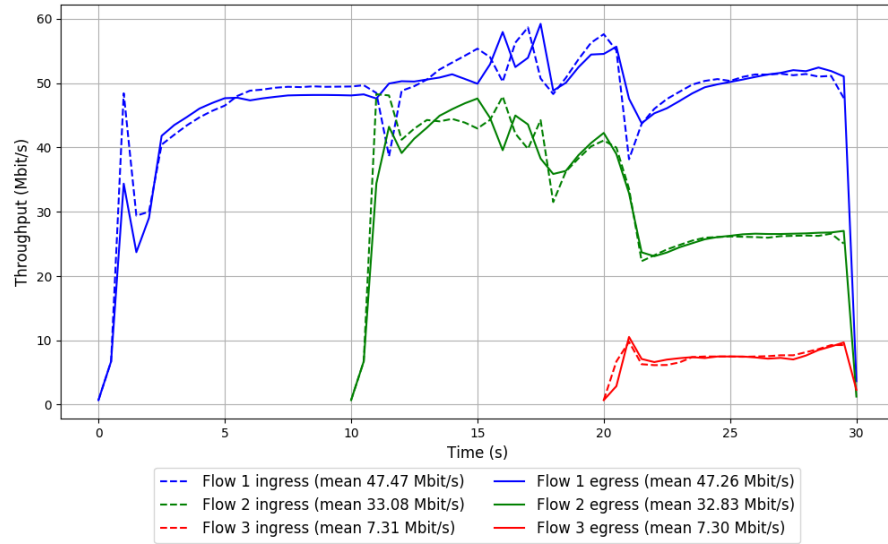
-- Flow 3:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 105.705 ms

Loss rate: 0.17%

# Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-10 04:21:02

End at: 2018-01-10 04:21:32

Local clock offset: 2.496 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-01-10 06:45:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 115.235 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 53.30 Mbit/s

95th percentile per-packet one-way delay: 113.950 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 40.93 Mbit/s

95th percentile per-packet one-way delay: 116.192 ms

Loss rate: 0.74%

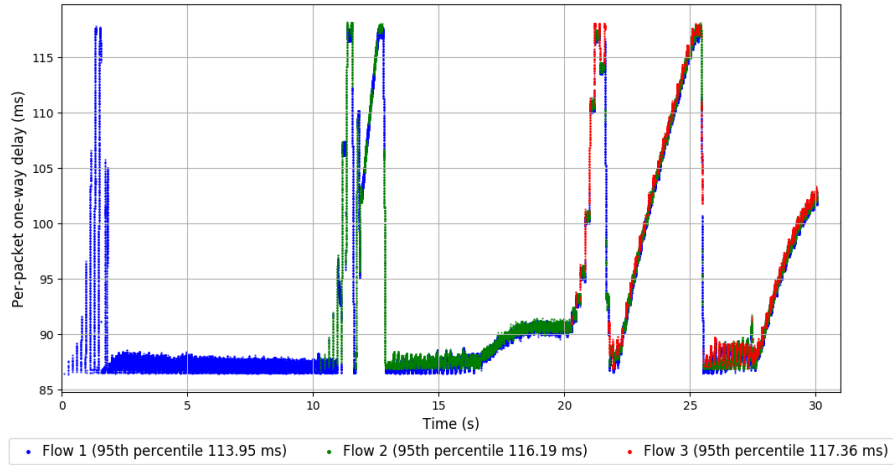
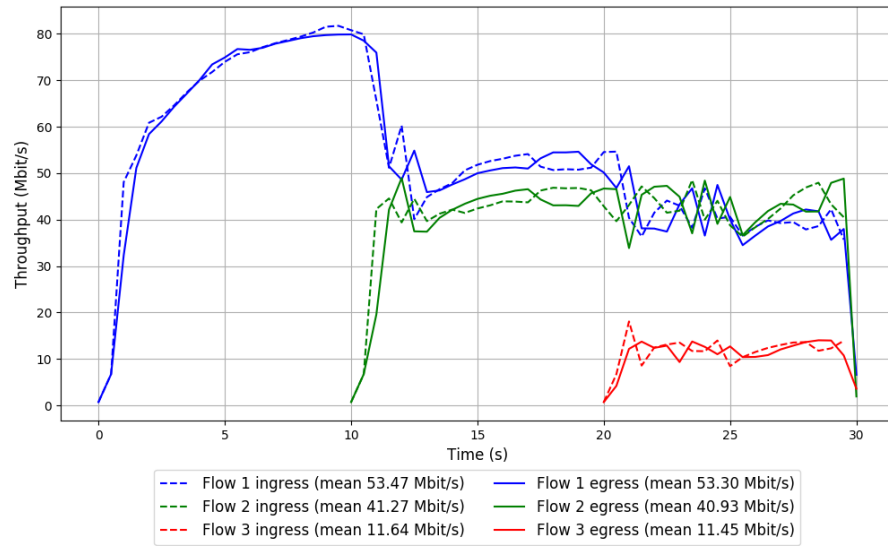
-- Flow 3:

Average throughput: 11.45 Mbit/s

95th percentile per-packet one-way delay: 117.356 ms

Loss rate: 1.45%

# Run 5: Report of TCP Cubic — Data Link

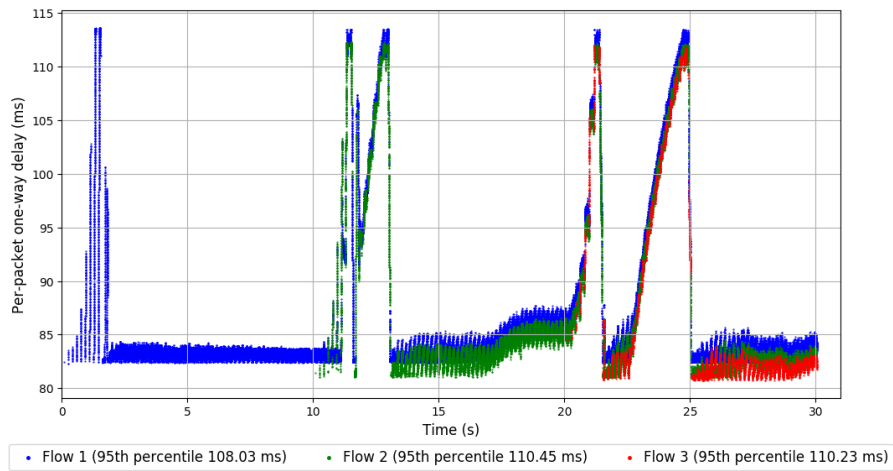
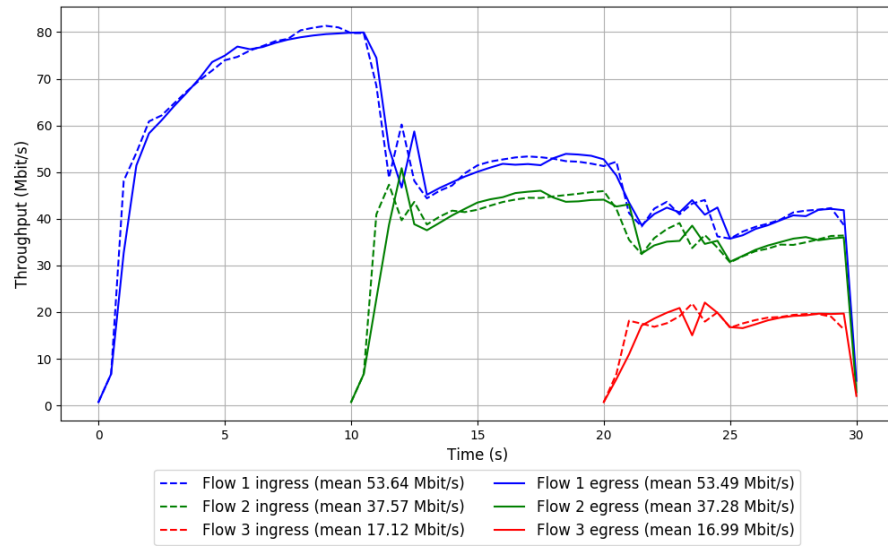


Run 6: Statistics of TCP Cubic

Start at: 2018-01-10 04:40:30  
End at: 2018-01-10 04:41:00  
Local clock offset: 2.549 ms  
Remote clock offset: -4.538 ms

# Below is generated by plot.py at 2018-01-10 06:45:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.92 Mbit/s  
95th percentile per-packet one-way delay: 109.711 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 53.49 Mbit/s  
95th percentile per-packet one-way delay: 108.035 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 37.28 Mbit/s  
95th percentile per-packet one-way delay: 110.455 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 16.99 Mbit/s  
95th percentile per-packet one-way delay: 110.229 ms  
Loss rate: 0.80%

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



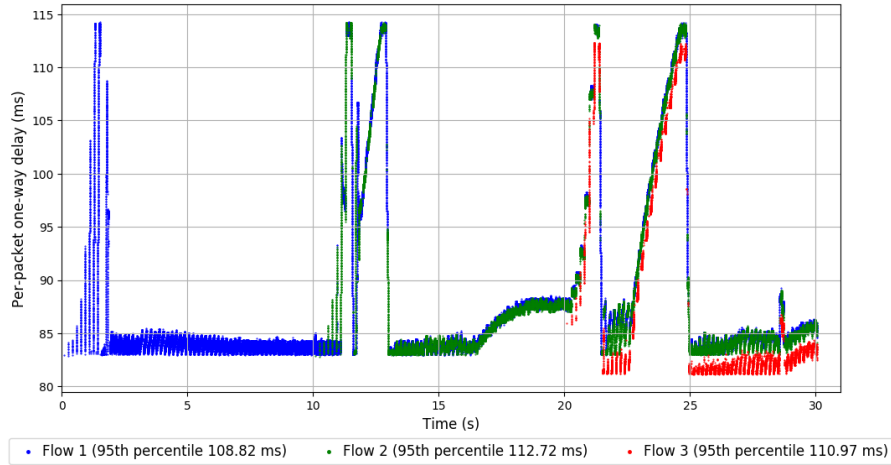
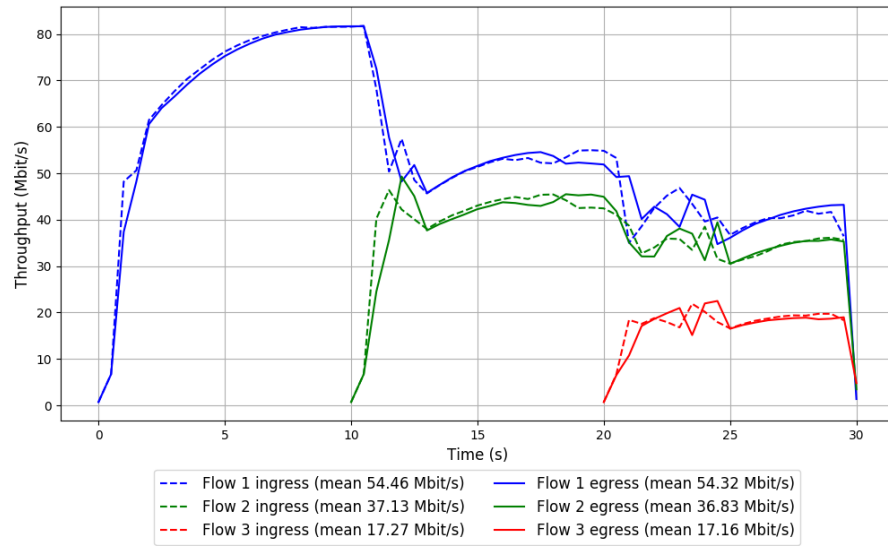
Run 7: Statistics of TCP Cubic

Start at: 2018-01-10 04:58:59  
End at: 2018-01-10 04:59:29  
Local clock offset: 2.624 ms  
Remote clock offset: -3.966 ms

# Below is generated by plot.py at 2018-01-10 06:47:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.54 Mbit/s  
95th percentile per-packet one-way delay: 110.786 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 54.32 Mbit/s  
95th percentile per-packet one-way delay: 108.819 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 36.83 Mbit/s  
95th percentile per-packet one-way delay: 112.719 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 17.16 Mbit/s  
95th percentile per-packet one-way delay: 110.970 ms  
Loss rate: 0.66%



# Run 7: Report of TCP Cubic — Data Link

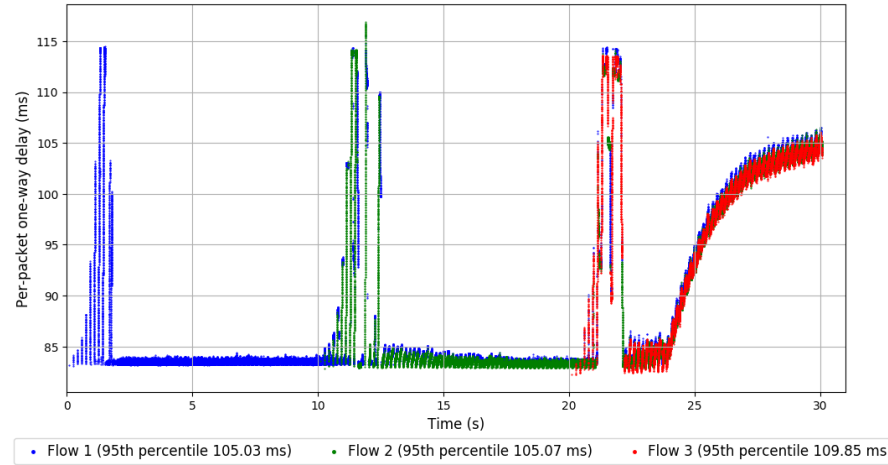
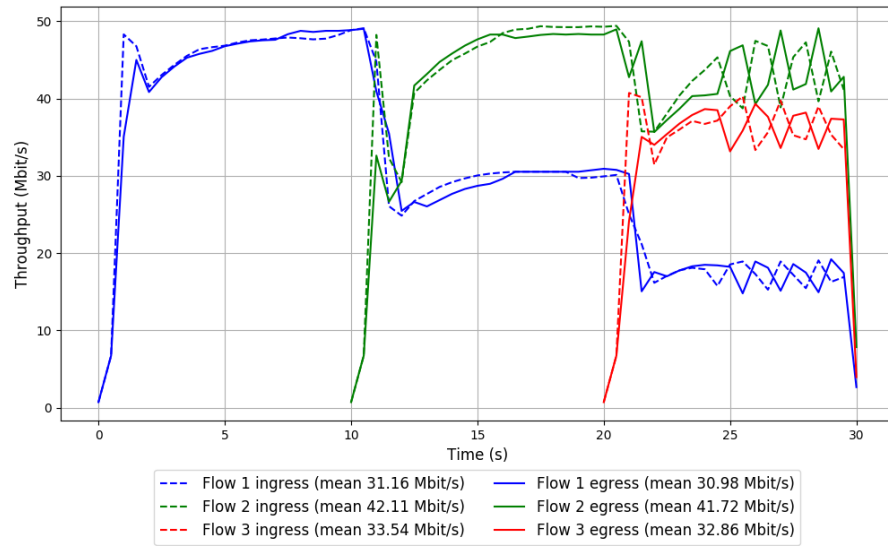


Run 8: Statistics of TCP Cubic

Start at: 2018-01-10 05:18:28  
End at: 2018-01-10 05:18:58  
Local clock offset: 3.22 ms  
Remote clock offset: -3.437 ms

# Below is generated by plot.py at 2018-01-10 06:47:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.70 Mbit/s  
95th percentile per-packet one-way delay: 105.216 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 30.98 Mbit/s  
95th percentile per-packet one-way delay: 105.029 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 41.72 Mbit/s  
95th percentile per-packet one-way delay: 105.067 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 32.86 Mbit/s  
95th percentile per-packet one-way delay: 109.847 ms  
Loss rate: 1.81%

# Run 8: Report of TCP Cubic — Data Link

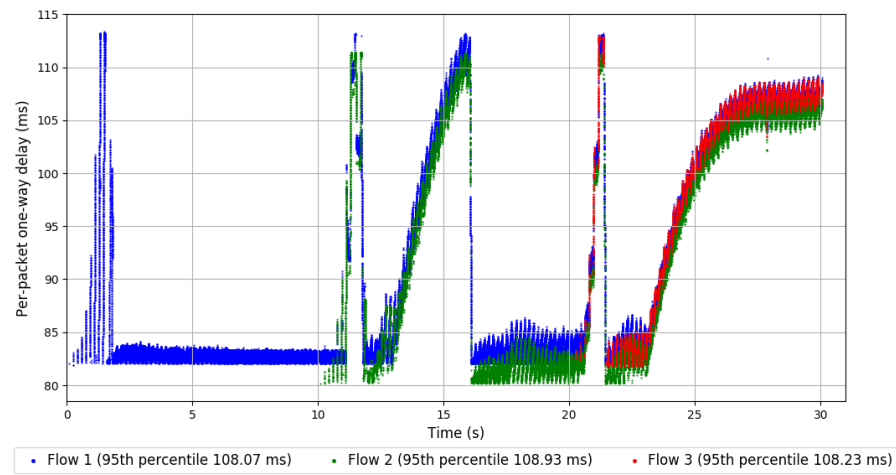
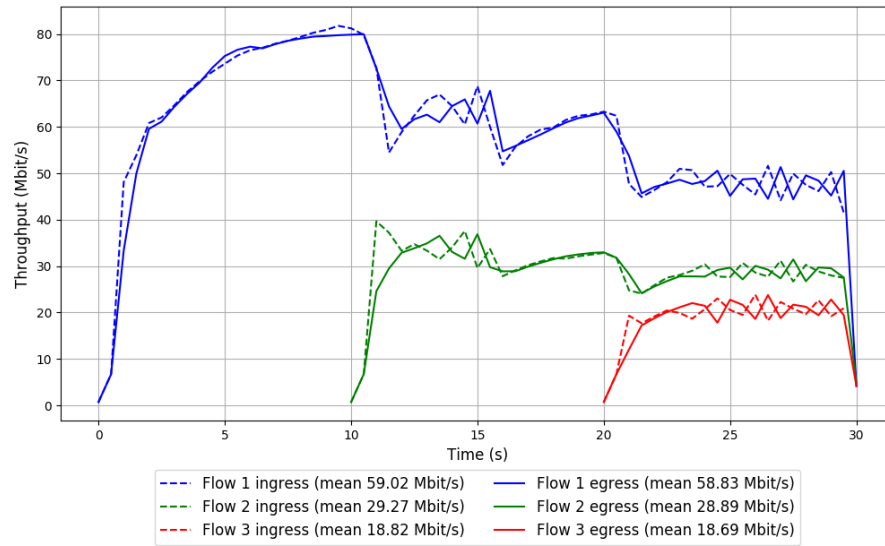


Run 9: Statistics of TCP Cubic

Start at: 2018-01-10 05:37:50  
End at: 2018-01-10 05:38:20  
Local clock offset: 3.843 ms  
Remote clock offset: -4.265 ms

# Below is generated by plot.py at 2018-01-10 06:47:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.28 Mbit/s  
95th percentile per-packet one-way delay: 108.223 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 58.83 Mbit/s  
95th percentile per-packet one-way delay: 108.071 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 28.89 Mbit/s  
95th percentile per-packet one-way delay: 108.928 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 18.69 Mbit/s  
95th percentile per-packet one-way delay: 108.234 ms  
Loss rate: 0.44%

# Run 9: Report of TCP Cubic — Data Link

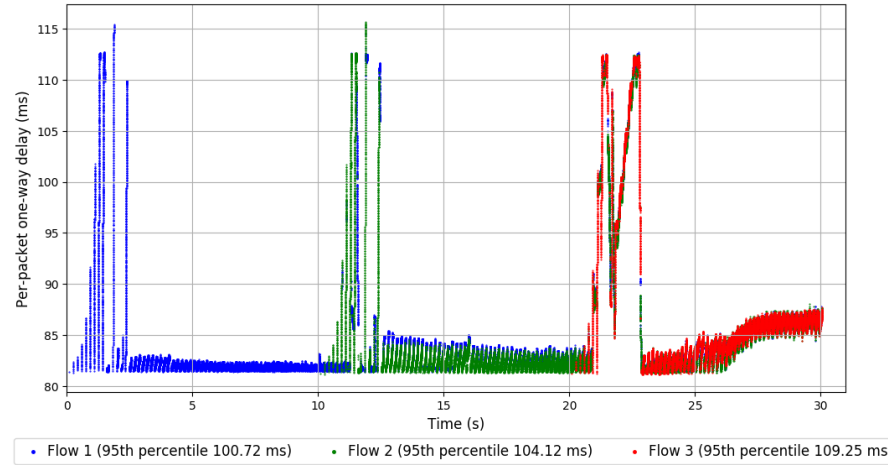
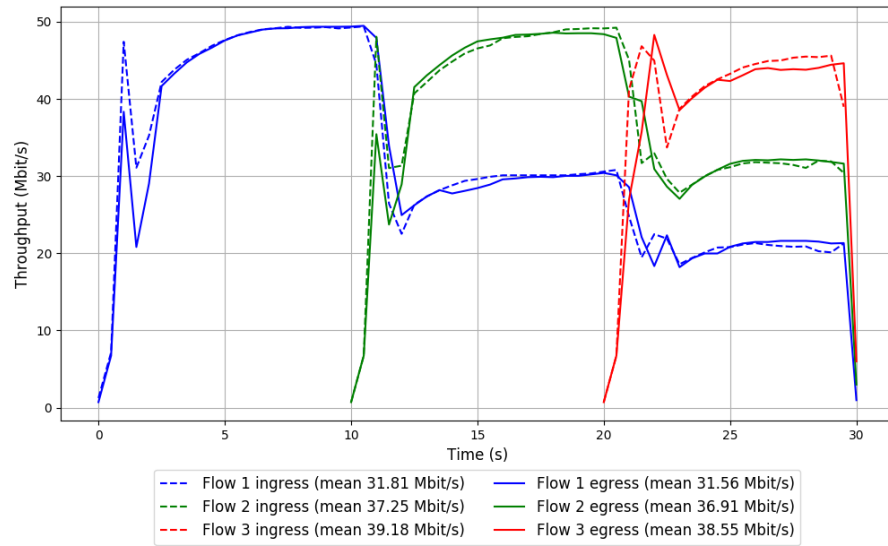


Run 10: Statistics of TCP Cubic

Start at: 2018-01-10 05:57:21  
End at: 2018-01-10 05:57:51  
Local clock offset: 4.117 ms  
Remote clock offset: -3.157 ms

# Below is generated by plot.py at 2018-01-10 06:47:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.94 Mbit/s  
95th percentile per-packet one-way delay: 104.867 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 31.56 Mbit/s  
95th percentile per-packet one-way delay: 100.715 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 36.91 Mbit/s  
95th percentile per-packet one-way delay: 104.125 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 38.55 Mbit/s  
95th percentile per-packet one-way delay: 109.255 ms  
Loss rate: 1.56%

# Run 10: Report of TCP Cubic — Data Link



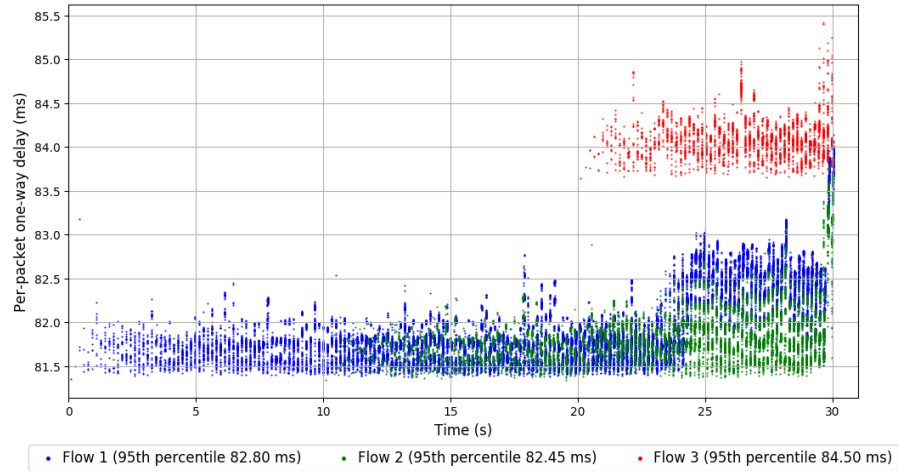
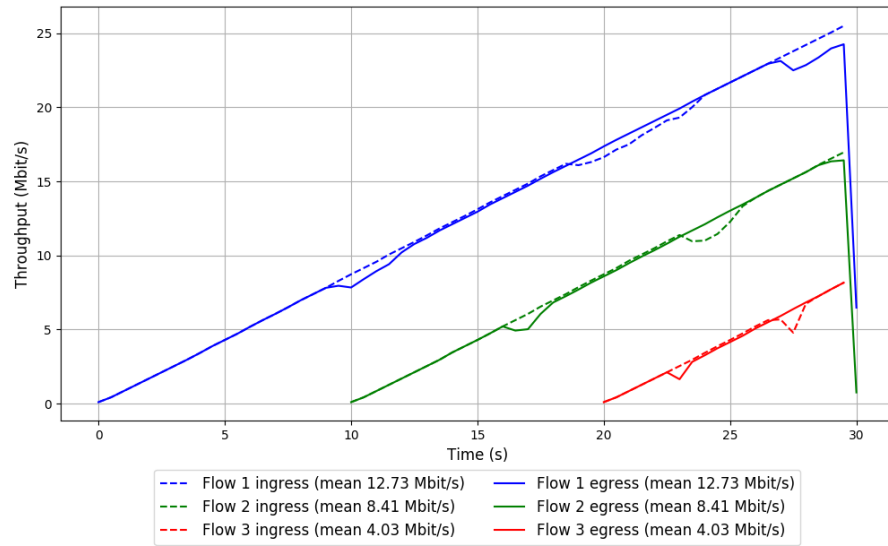
Run 1: Statistics of LEDBAT

Start at: 2018-01-10 03:00:14  
End at: 2018-01-10 03:00:44  
Local clock offset: 1.756 ms  
Remote clock offset: -3.793 ms

# Below is generated by plot.py at 2018-01-10 06:47:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.65 Mbit/s  
95th percentile per-packet one-way delay: 83.962 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.73 Mbit/s  
95th percentile per-packet one-way delay: 82.795 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.41 Mbit/s  
95th percentile per-packet one-way delay: 82.452 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.03 Mbit/s  
95th percentile per-packet one-way delay: 84.498 ms  
Loss rate: 0.00%



## Run 1: Report of LEDBAT — Data Link

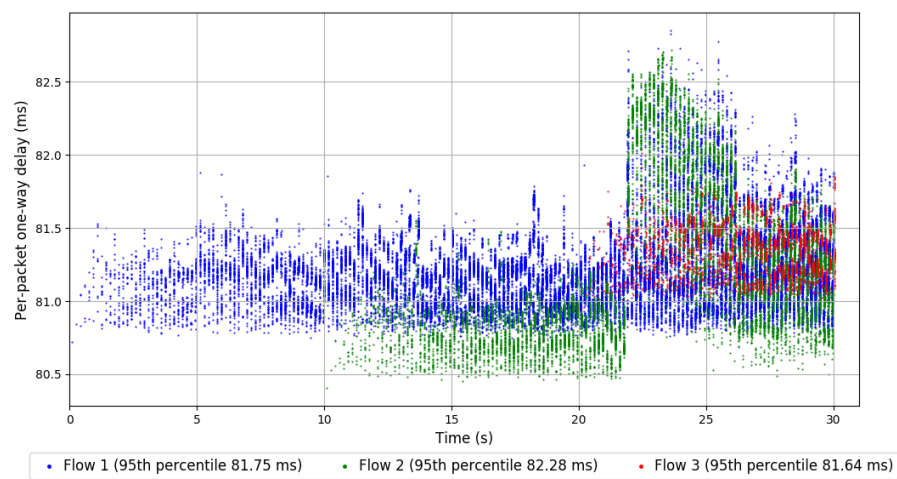
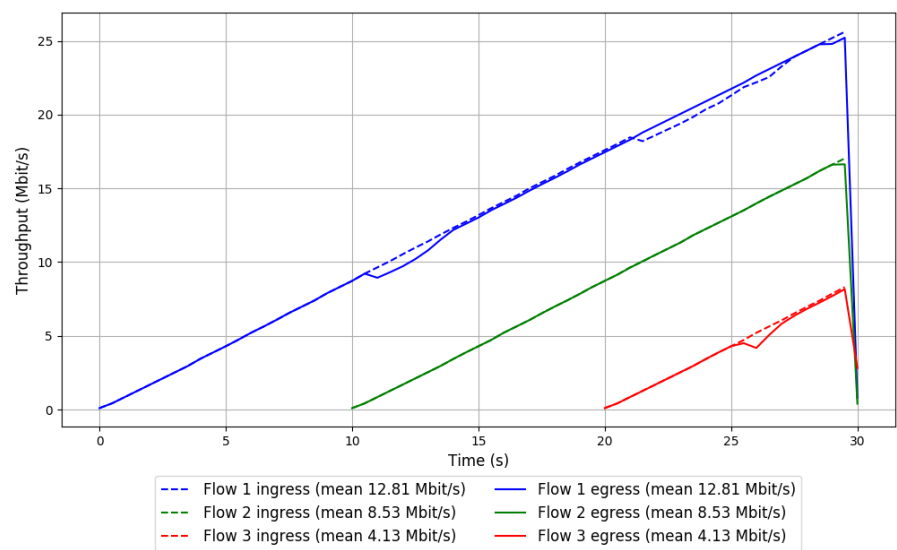


Run 2: Statistics of LEDBAT

Start at: 2018-01-10 03:19:43  
End at: 2018-01-10 03:20:13  
Local clock offset: 2.243 ms  
Remote clock offset: -4.433 ms

# Below is generated by plot.py at 2018-01-10 06:47:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.84 Mbit/s  
95th percentile per-packet one-way delay: 81.984 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.81 Mbit/s  
95th percentile per-packet one-way delay: 81.747 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 82.285 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.13 Mbit/s  
95th percentile per-packet one-way delay: 81.636 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-10 03:39:24

End at: 2018-01-10 03:39:54

Local clock offset: 2.519 ms

Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2018-01-10 06:47:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 88.215 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.62 Mbit/s

95th percentile per-packet one-way delay: 88.263 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.31 Mbit/s

95th percentile per-packet one-way delay: 87.868 ms

Loss rate: 0.00%

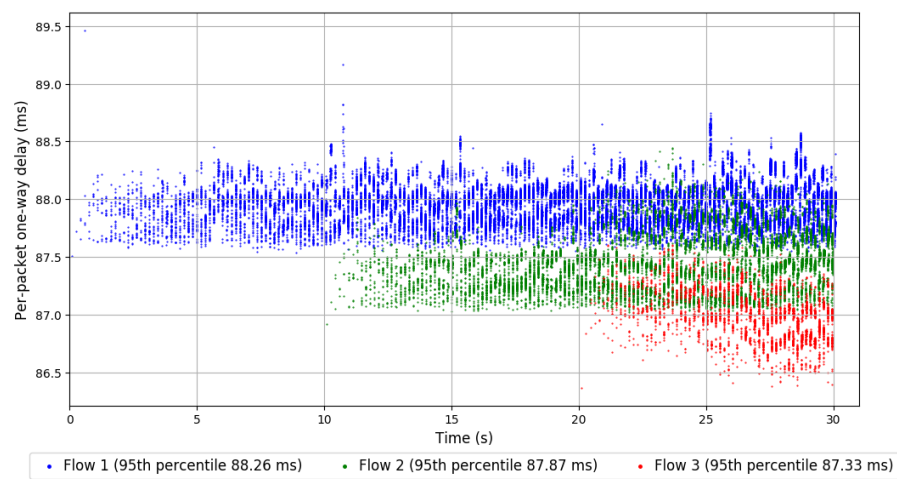
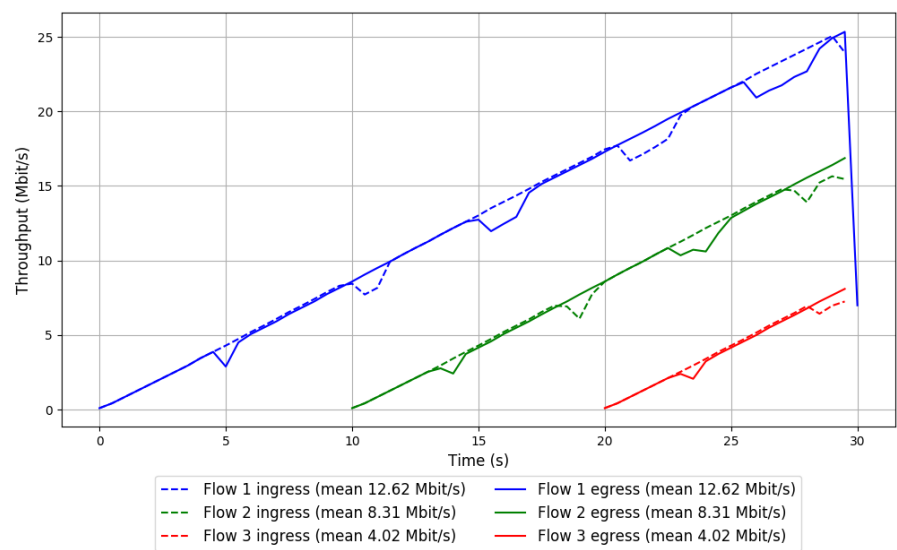
-- Flow 3:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 87.334 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

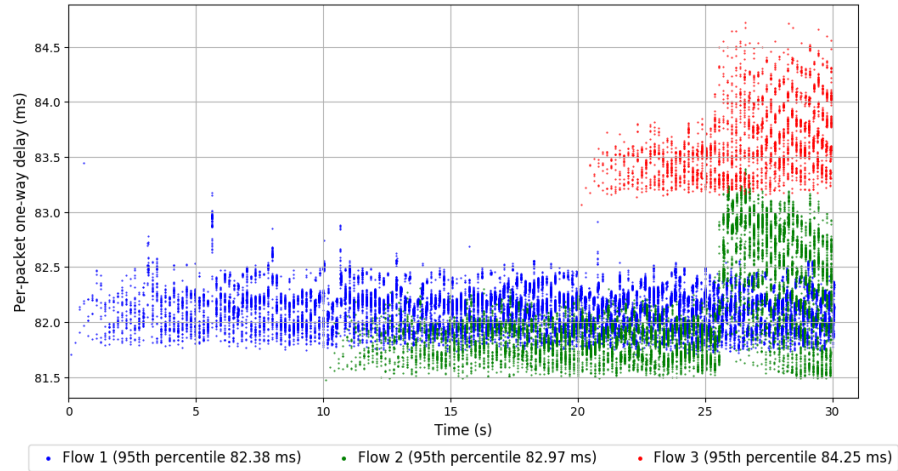
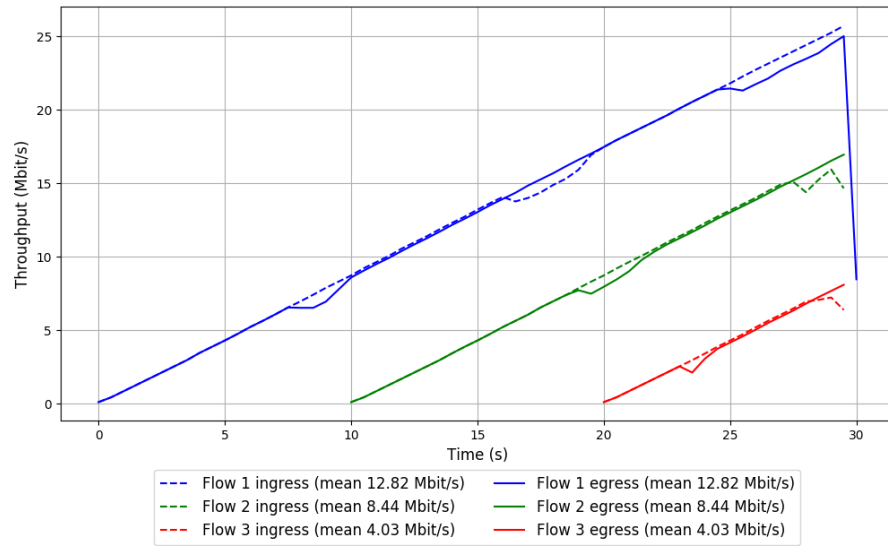


Run 4: Statistics of LEDBAT

Start at: 2018-01-10 03:58:46  
End at: 2018-01-10 03:59:16  
Local clock offset: 2.744 ms  
Remote clock offset: -3.749 ms

# Below is generated by plot.py at 2018-01-10 06:47:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.73 Mbit/s  
95th percentile per-packet one-way delay: 83.394 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.82 Mbit/s  
95th percentile per-packet one-way delay: 82.381 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.44 Mbit/s  
95th percentile per-packet one-way delay: 82.967 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.03 Mbit/s  
95th percentile per-packet one-way delay: 84.253 ms  
Loss rate: 0.00%

# Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-10 04:18:24

End at: 2018-01-10 04:18:54

Local clock offset: 2.463 ms

Remote clock offset: 0.661 ms

# Below is generated by plot.py at 2018-01-10 06:47:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.92 Mbit/s

95th percentile per-packet one-way delay: 88.011 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.86 Mbit/s

95th percentile per-packet one-way delay: 87.038 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 88.221 ms

Loss rate: 0.00%

-- Flow 3:

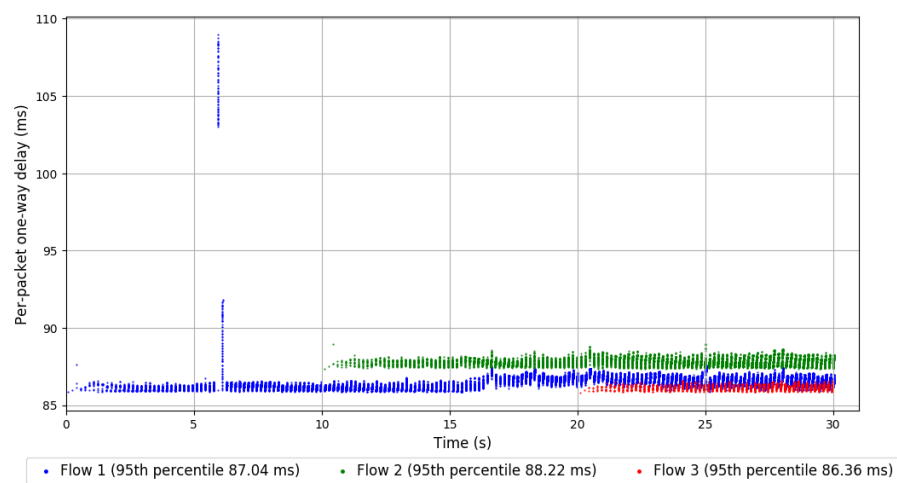
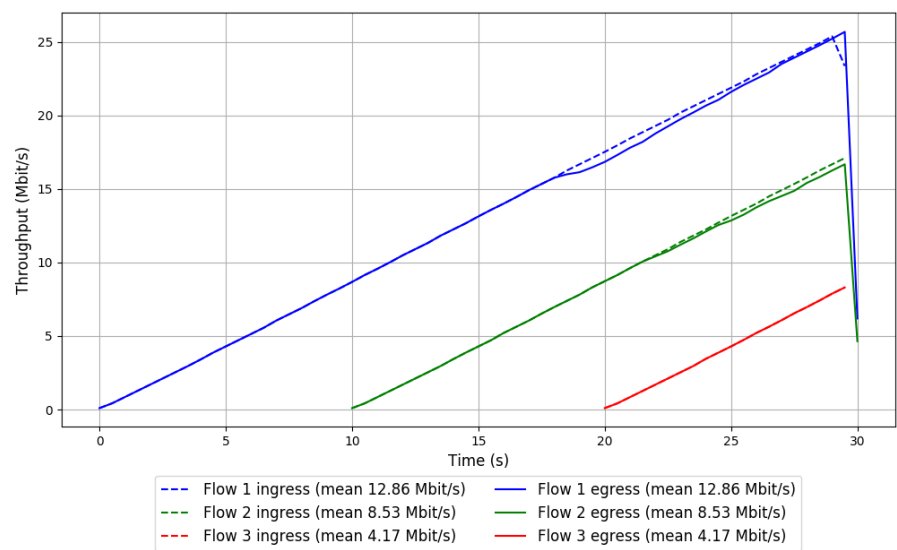
Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 86.365 ms

Loss rate: 0.00%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-10 04:37:54

End at: 2018-01-10 04:38:24

Local clock offset: 2.539 ms

Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2018-01-10 06:47:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.47 Mbit/s

95th percentile per-packet one-way delay: 89.048 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 89.356 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.65 Mbit/s

95th percentile per-packet one-way delay: 88.080 ms

Loss rate: 0.00%

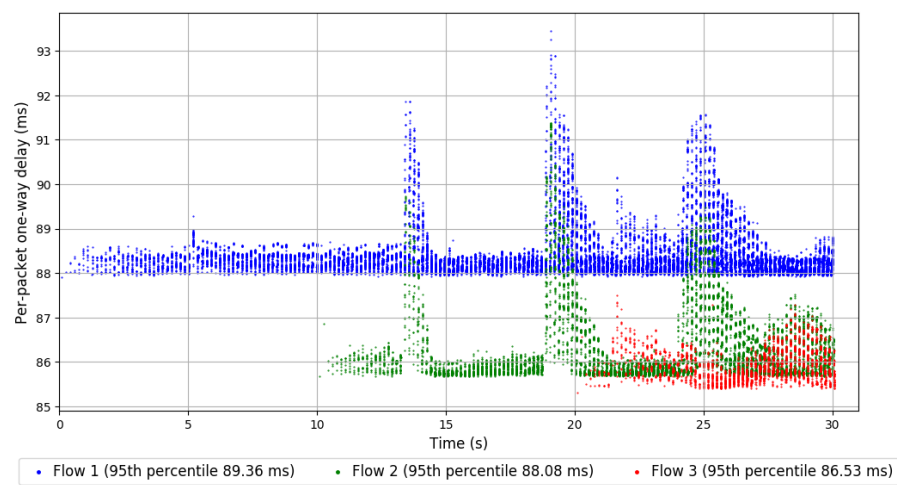
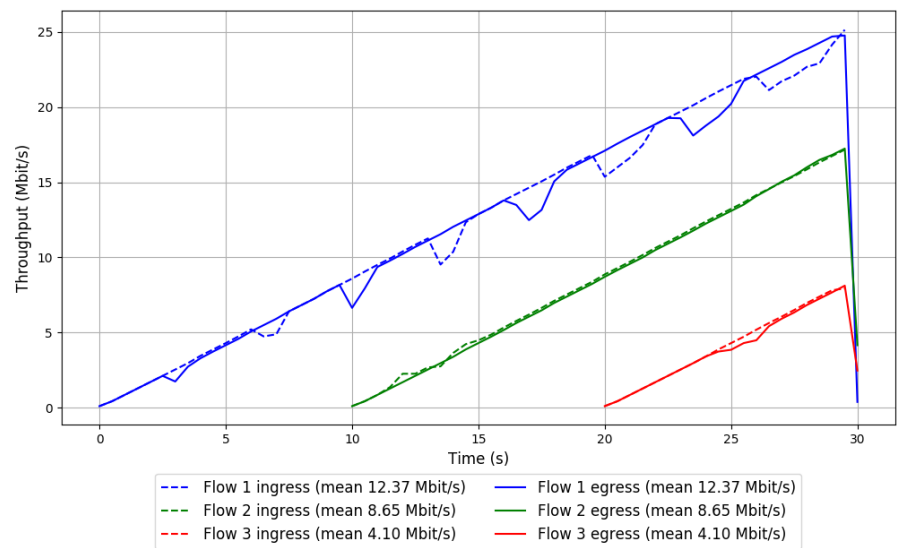
-- Flow 3:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 86.535 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-10 04:56:23

End at: 2018-01-10 04:56:53

Local clock offset: 2.627 ms

Remote clock offset: 0.795 ms

# Below is generated by plot.py at 2018-01-10 06:47:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.92 Mbit/s

95th percentile per-packet one-way delay: 88.592 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 88.615 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.53 Mbit/s

95th percentile per-packet one-way delay: 87.258 ms

Loss rate: 0.00%

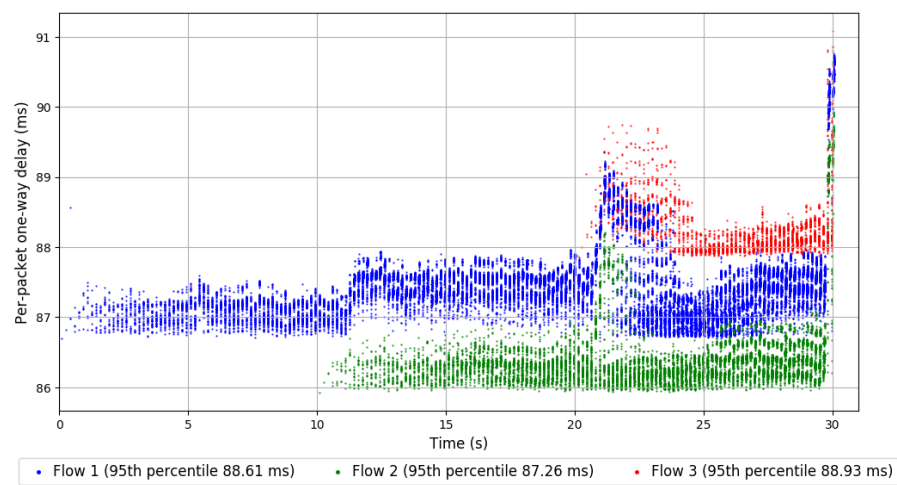
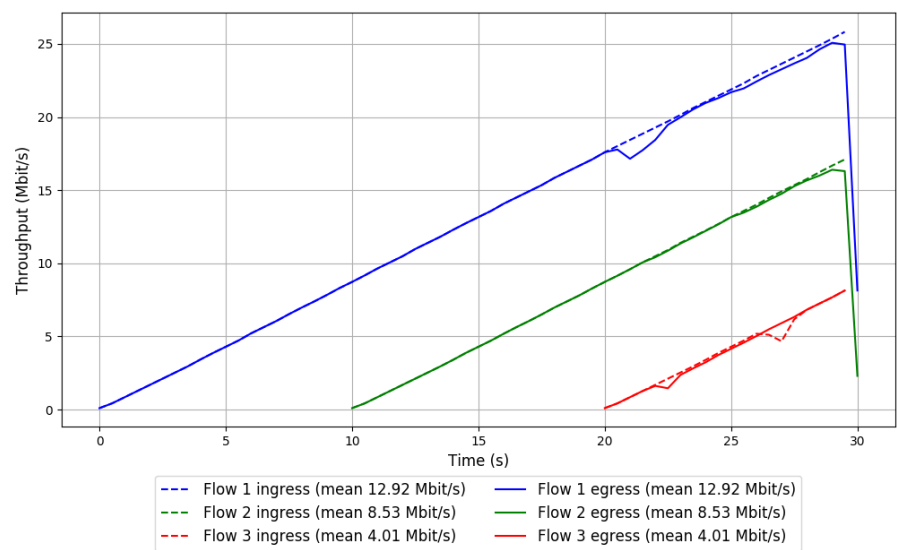
-- Flow 3:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 88.929 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

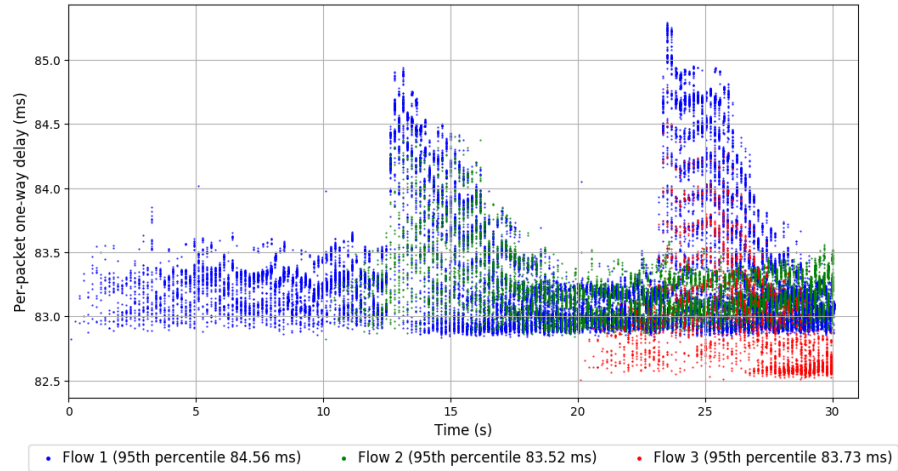
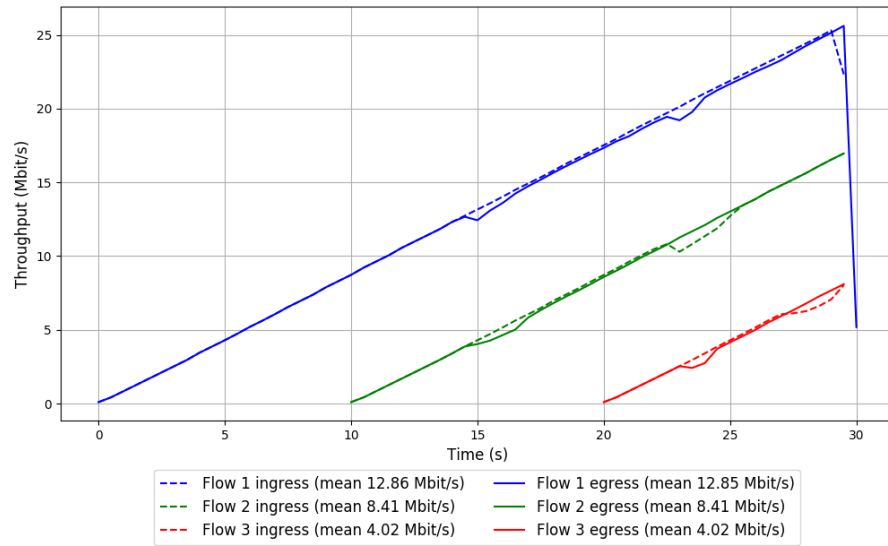


Run 8: Statistics of LEDBAT

Start at: 2018-01-10 05:15:51  
End at: 2018-01-10 05:16:21  
Local clock offset: 3.124 ms  
Remote clock offset: -3.828 ms

# Below is generated by plot.py at 2018-01-10 06:47:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.76 Mbit/s  
95th percentile per-packet one-way delay: 84.418 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.85 Mbit/s  
95th percentile per-packet one-way delay: 84.558 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.41 Mbit/s  
95th percentile per-packet one-way delay: 83.519 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.02 Mbit/s  
95th percentile per-packet one-way delay: 83.729 ms  
Loss rate: 0.00%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-10 05:35:14

End at: 2018-01-10 05:35:44

Local clock offset: 3.738 ms

Remote clock offset: -3.84 ms

# Below is generated by plot.py at 2018-01-10 06:47:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.87 Mbit/s

95th percentile per-packet one-way delay: 84.599 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.91 Mbit/s

95th percentile per-packet one-way delay: 84.588 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.41 Mbit/s

95th percentile per-packet one-way delay: 82.748 ms

Loss rate: 0.00%

-- Flow 3:

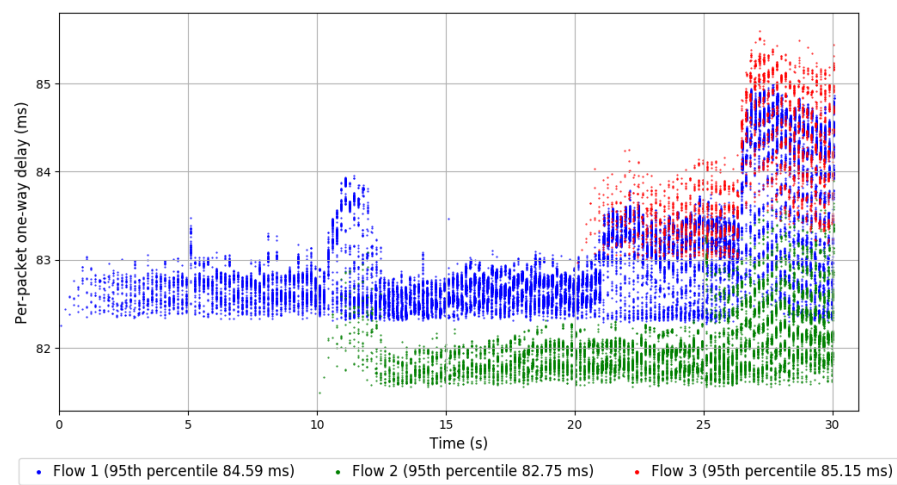
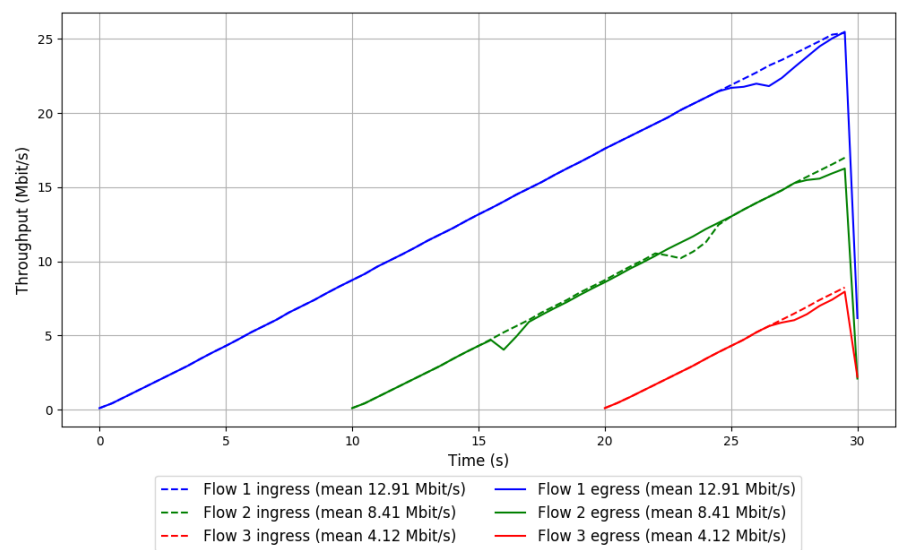
Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 85.149 ms

Loss rate: 0.00%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-10 05:54:45

End at: 2018-01-10 05:55:15

Local clock offset: 4.019 ms

Remote clock offset: 1.627 ms

# Below is generated by plot.py at 2018-01-10 06:47:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.67 Mbit/s

95th percentile per-packet one-way delay: 89.318 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.65 Mbit/s

95th percentile per-packet one-way delay: 89.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 89.212 ms

Loss rate: 0.00%

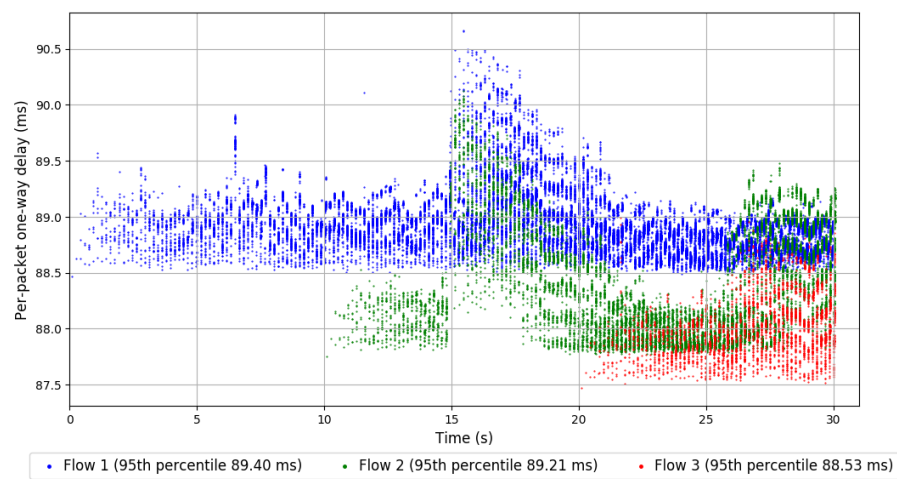
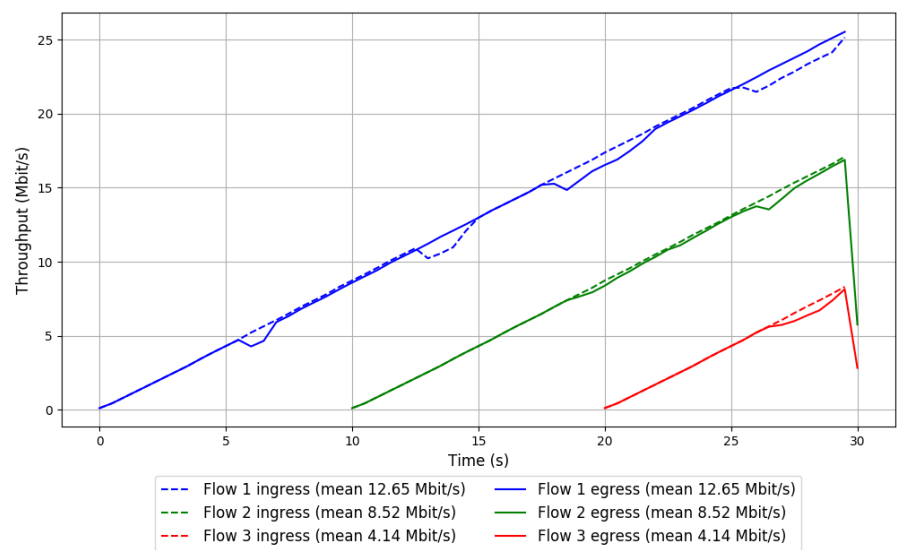
-- Flow 3:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 88.535 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

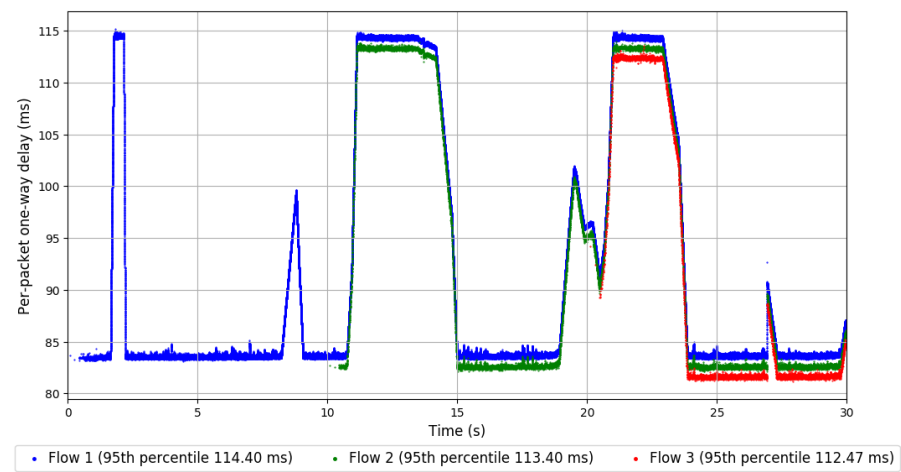
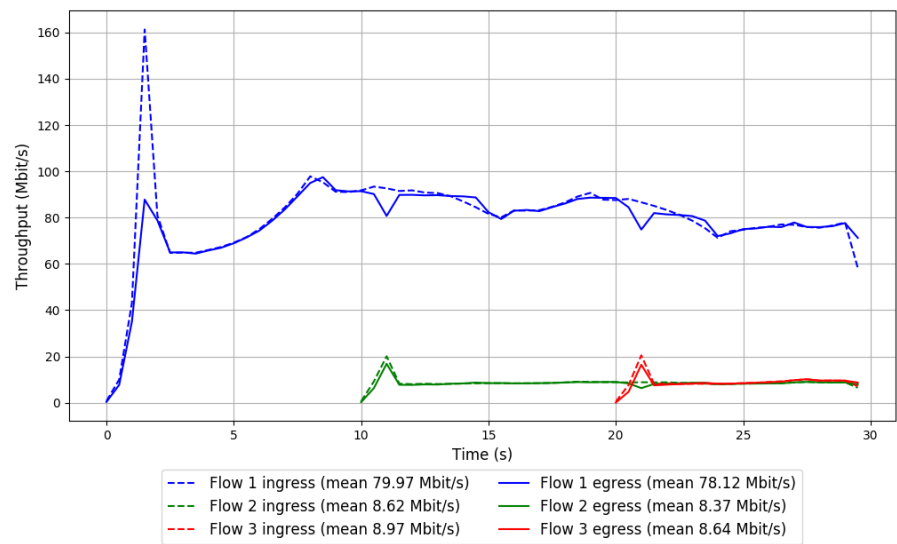


Run 1: Statistics of PCC

Start at: 2018-01-10 02:55:11  
End at: 2018-01-10 02:55:41  
Local clock offset: 1.563 ms  
Remote clock offset: -4.192 ms

# Below is generated by plot.py at 2018-01-10 06:49:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.52 Mbit/s  
95th percentile per-packet one-way delay: 114.392 ms  
Loss rate: 2.40%  
-- Flow 1:  
Average throughput: 78.12 Mbit/s  
95th percentile per-packet one-way delay: 114.402 ms  
Loss rate: 2.31%  
-- Flow 2:  
Average throughput: 8.37 Mbit/s  
95th percentile per-packet one-way delay: 113.397 ms  
Loss rate: 2.90%  
-- Flow 3:  
Average throughput: 8.64 Mbit/s  
95th percentile per-packet one-way delay: 112.472 ms  
Loss rate: 3.80%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

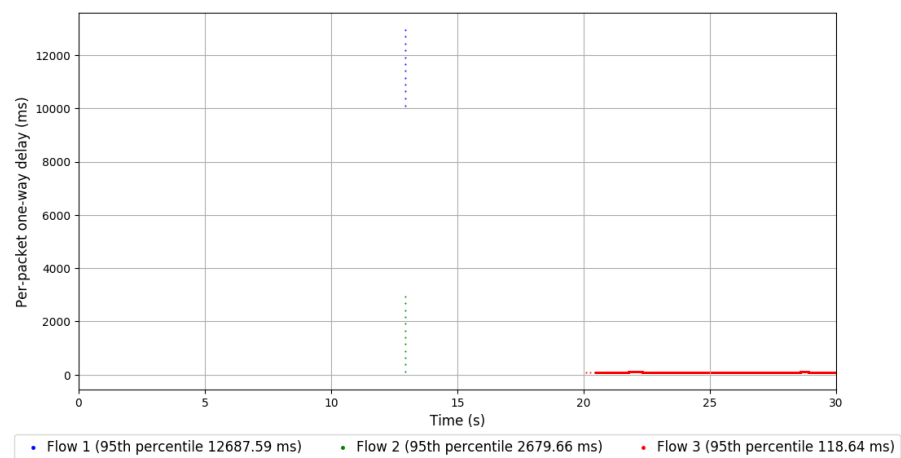
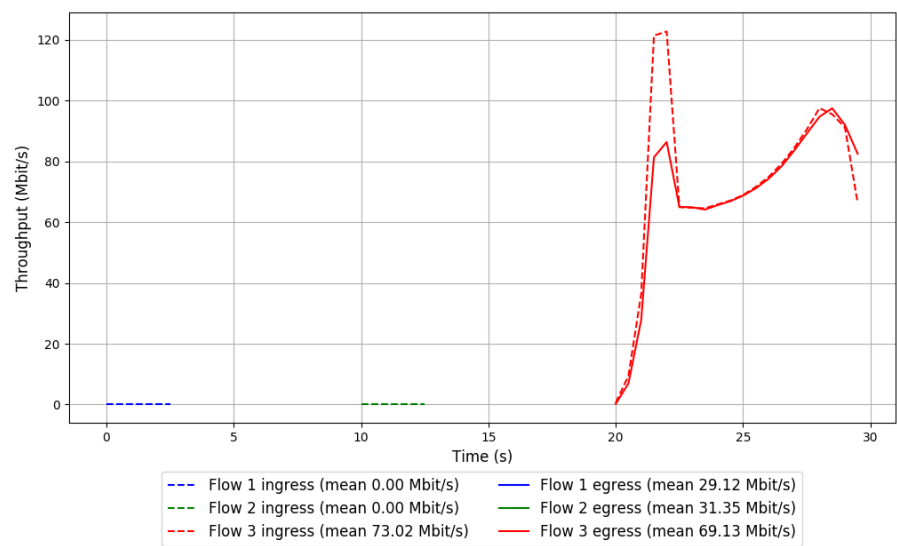
Start at: 2018-01-10 03:14:39

End at: 2018-01-10 03:15:09

Local clock offset: 2.147 ms

Remote clock offset: 0.869 ms

Run 2: Report of PCC — Data Link



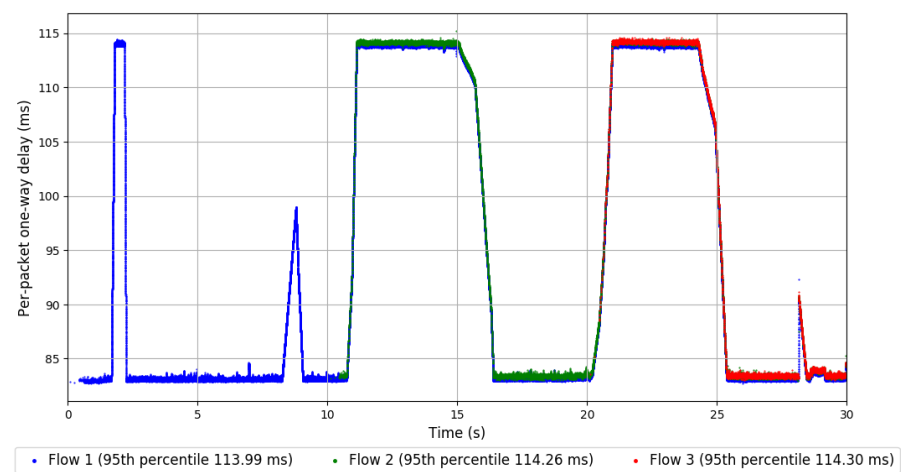
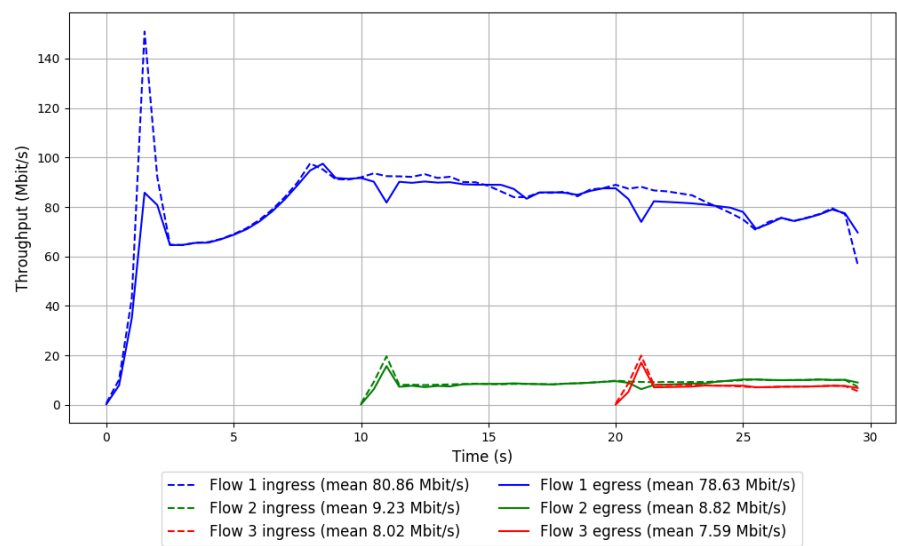
Run 3: Statistics of PCC

Start at: 2018-01-10 03:34:09  
End at: 2018-01-10 03:34:39  
Local clock offset: 2.397 ms  
Remote clock offset: -4.204 ms

# Below is generated by plot.py at 2018-01-10 06:49:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.00 Mbit/s  
95th percentile per-packet one-way delay: 114.039 ms  
Loss rate: 2.94%  
-- Flow 1:  
Average throughput: 78.63 Mbit/s  
95th percentile per-packet one-way delay: 113.992 ms  
Loss rate: 2.75%  
-- Flow 2:  
Average throughput: 8.82 Mbit/s  
95th percentile per-packet one-way delay: 114.258 ms  
Loss rate: 4.46%  
-- Flow 3:  
Average throughput: 7.59 Mbit/s  
95th percentile per-packet one-way delay: 114.302 ms  
Loss rate: 5.32%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

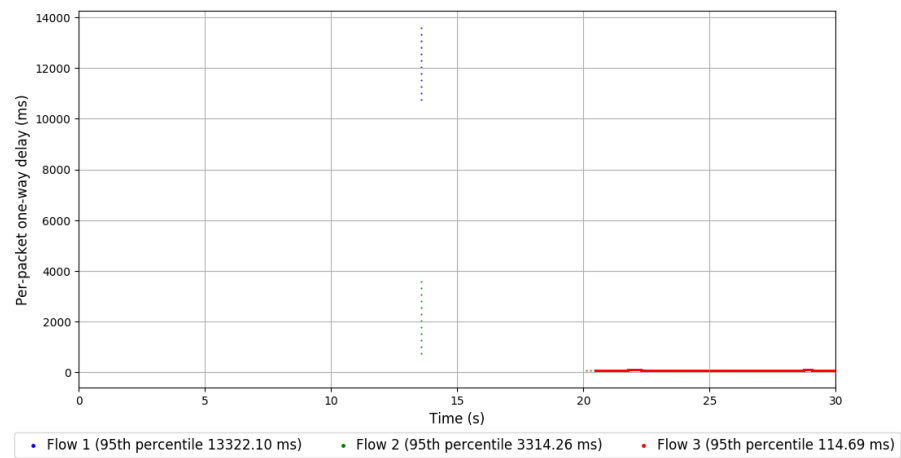
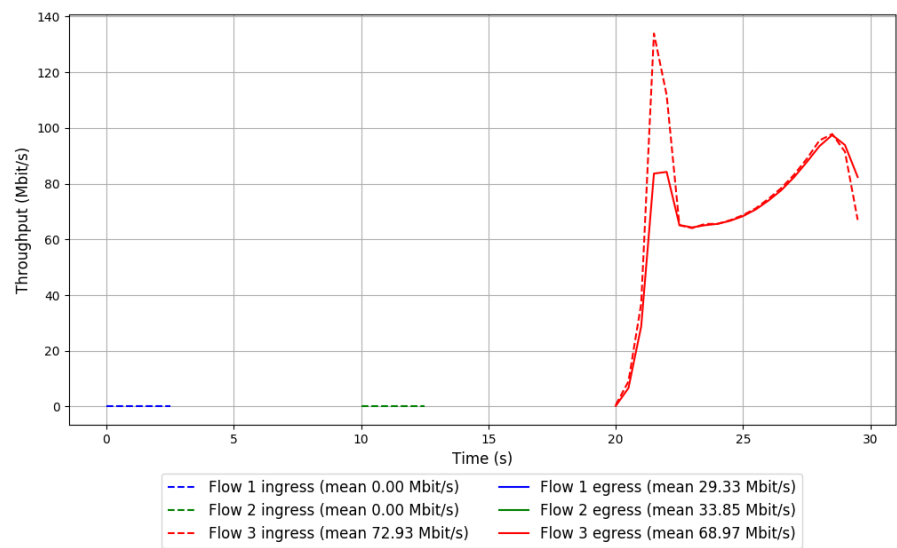
Start at: 2018-01-10 03:53:46

End at: 2018-01-10 03:54:16

Local clock offset: 2.621 ms

Remote clock offset: -4.051 ms

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-10 04:13:10

End at: 2018-01-10 04:13:40

Local clock offset: 2.655 ms

Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-01-10 06:50:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.60 Mbit/s

95th percentile per-packet one-way delay: 118.022 ms

Loss rate: 2.34%

-- Flow 1:

Average throughput: 78.28 Mbit/s

95th percentile per-packet one-way delay: 118.034 ms

Loss rate: 2.24%

-- Flow 2:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 116.583 ms

Loss rate: 2.65%

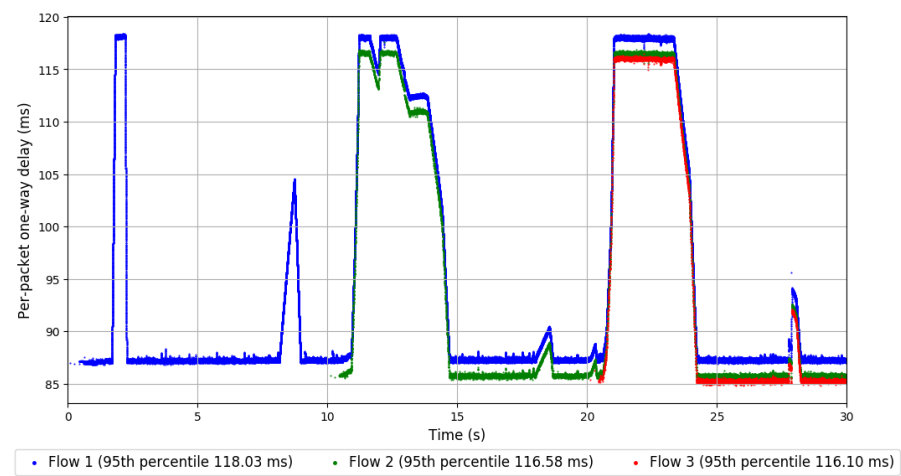
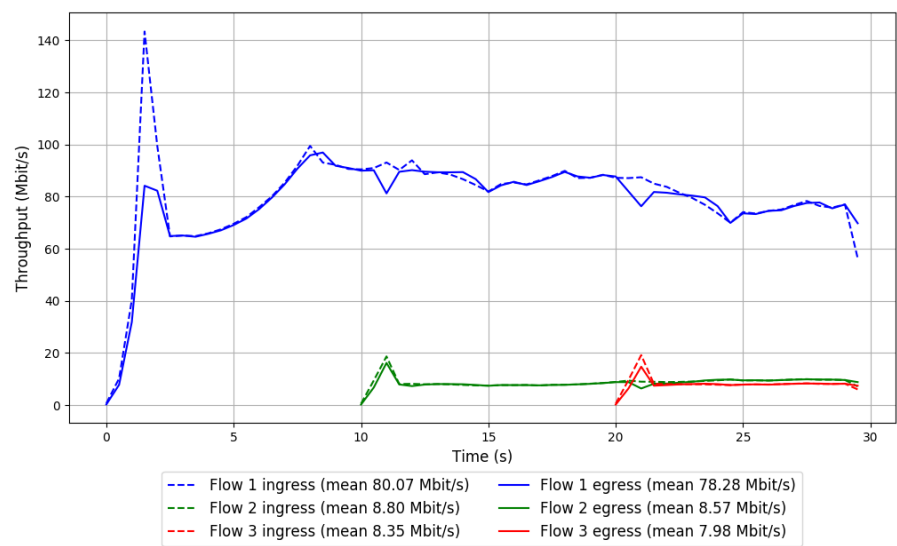
-- Flow 3:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 116.102 ms

Loss rate: 4.44%

Run 5: Report of PCC — Data Link

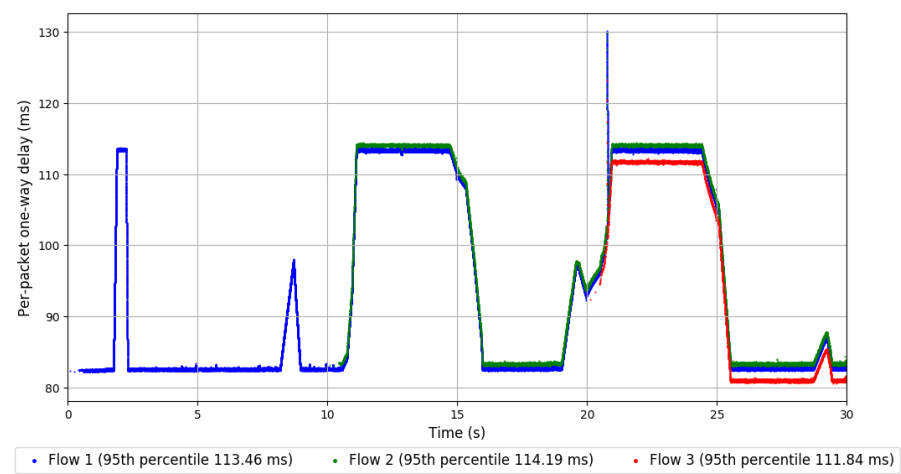
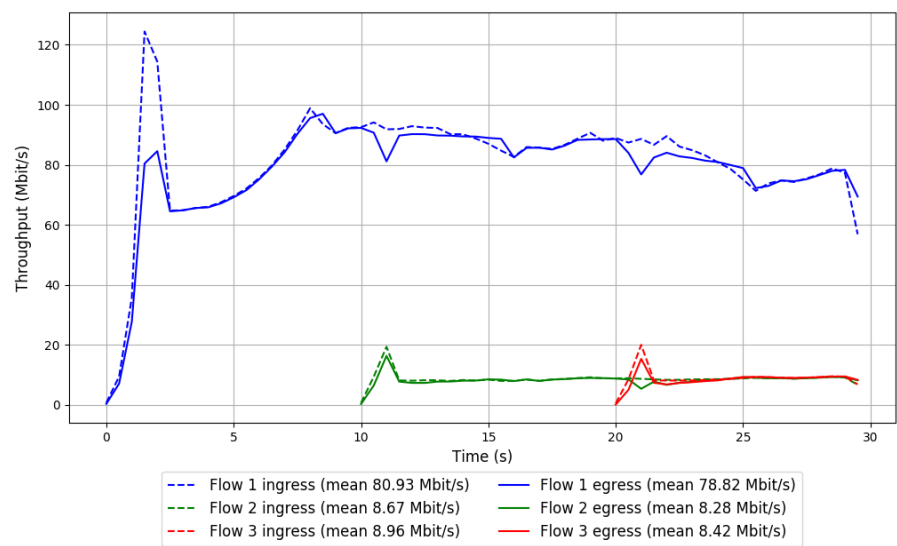


Run 6: Statistics of PCC

Start at: 2018-01-10 04:32:51  
End at: 2018-01-10 04:33:21  
Local clock offset: 2.457 ms  
Remote clock offset: -4.522 ms

# Below is generated by plot.py at 2018-01-10 06:50:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.09 Mbit/s  
95th percentile per-packet one-way delay: 113.488 ms  
Loss rate: 2.85%  
-- Flow 1:  
Average throughput: 78.82 Mbit/s  
95th percentile per-packet one-way delay: 113.460 ms  
Loss rate: 2.61%  
-- Flow 2:  
Average throughput: 8.28 Mbit/s  
95th percentile per-packet one-way delay: 114.188 ms  
Loss rate: 4.54%  
-- Flow 3:  
Average throughput: 8.42 Mbit/s  
95th percentile per-packet one-way delay: 111.837 ms  
Loss rate: 6.11%

Run 6: Report of PCC — Data Link



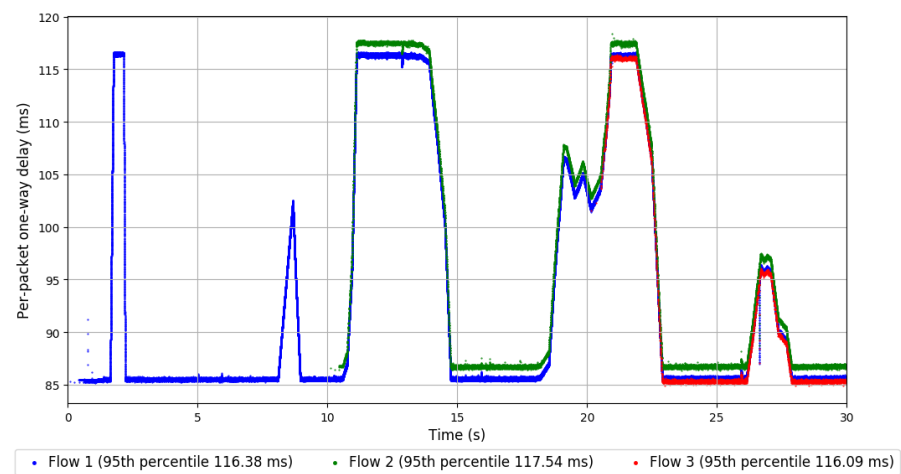
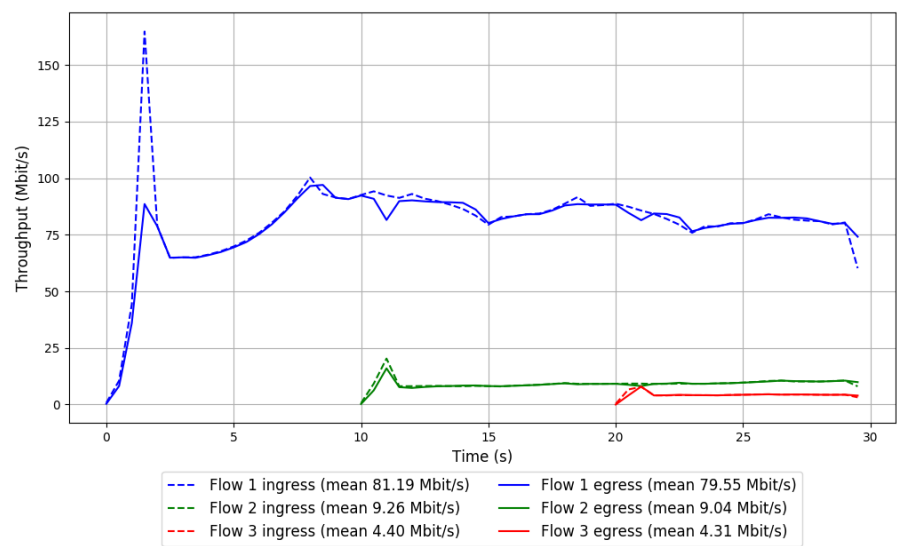
Run 7: Statistics of PCC

Start at: 2018-01-10 04:51:20  
End at: 2018-01-10 04:51:50  
Local clock offset: 2.625 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-01-10 06:50:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.97 Mbit/s  
95th percentile per-packet one-way delay: 116.396 ms  
Loss rate: 2.05%  
-- Flow 1:  
Average throughput: 79.55 Mbit/s  
95th percentile per-packet one-way delay: 116.377 ms  
Loss rate: 2.02%  
-- Flow 2:  
Average throughput: 9.04 Mbit/s  
95th percentile per-packet one-way delay: 117.542 ms  
Loss rate: 2.45%  
-- Flow 3:  
Average throughput: 4.31 Mbit/s  
95th percentile per-packet one-way delay: 116.090 ms  
Loss rate: 2.22%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-10 05:10:48

End at: 2018-01-10 05:11:18

Local clock offset: 3.0 ms

Remote clock offset: 0.95 ms

# Below is generated by plot.py at 2018-01-10 06:50:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.36 Mbit/s

95th percentile per-packet one-way delay: 119.497 ms

Loss rate: 4.90%

-- Flow 1:

Average throughput: 76.93 Mbit/s

95th percentile per-packet one-way delay: 119.505 ms

Loss rate: 4.06%

-- Flow 2:

Average throughput: 11.56 Mbit/s

95th percentile per-packet one-way delay: 119.088 ms

Loss rate: 12.79%

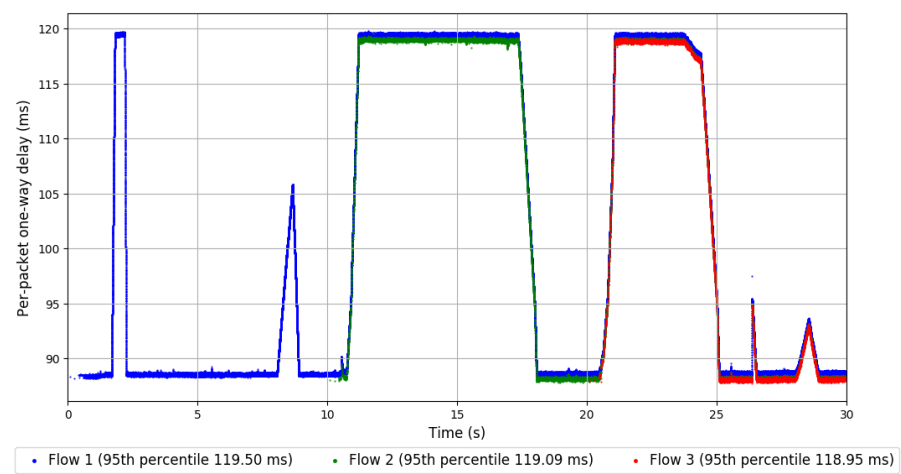
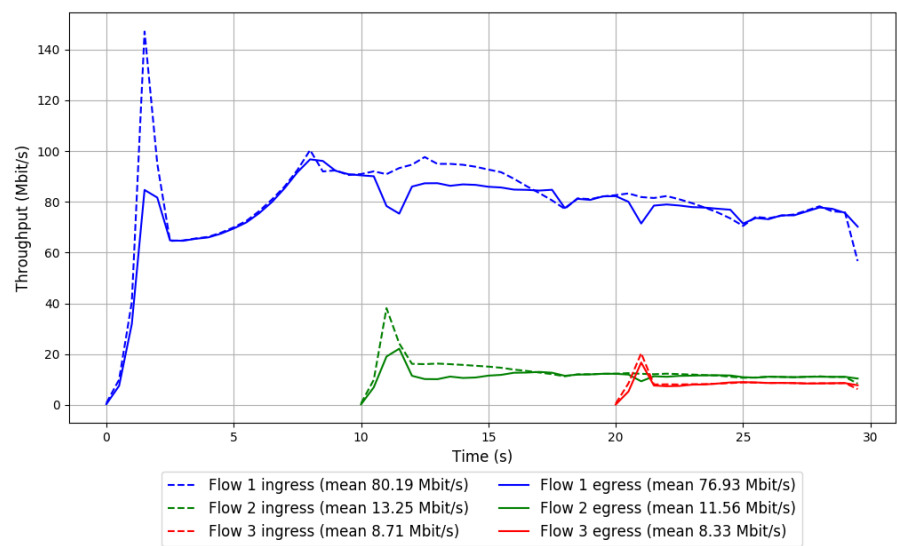
-- Flow 3:

Average throughput: 8.33 Mbit/s

95th percentile per-packet one-way delay: 118.948 ms

Loss rate: 4.30%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-10 05:30:12

End at: 2018-01-10 05:30:42

Local clock offset: 3.632 ms

Remote clock offset: 0.749 ms

# Below is generated by plot.py at 2018-01-10 06:50:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.66 Mbit/s

95th percentile per-packet one-way delay: 118.290 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 78.31 Mbit/s

95th percentile per-packet one-way delay: 118.297 ms

Loss rate: 2.52%

-- Flow 2:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 116.567 ms

Loss rate: 4.16%

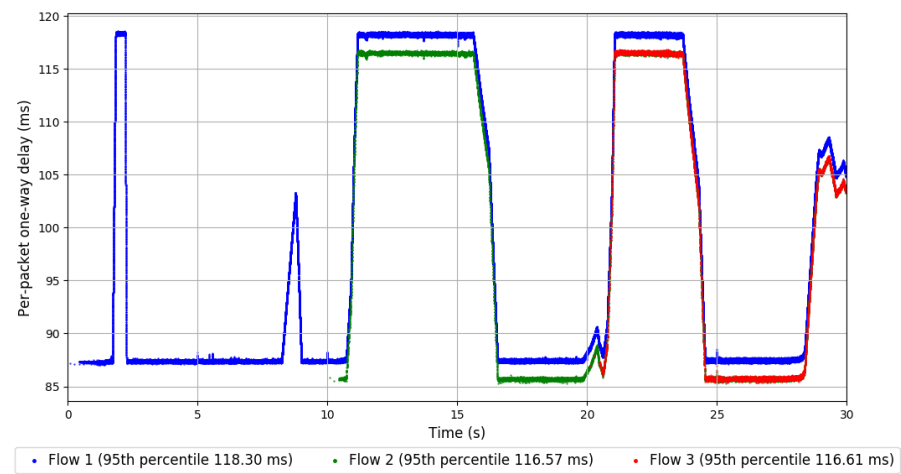
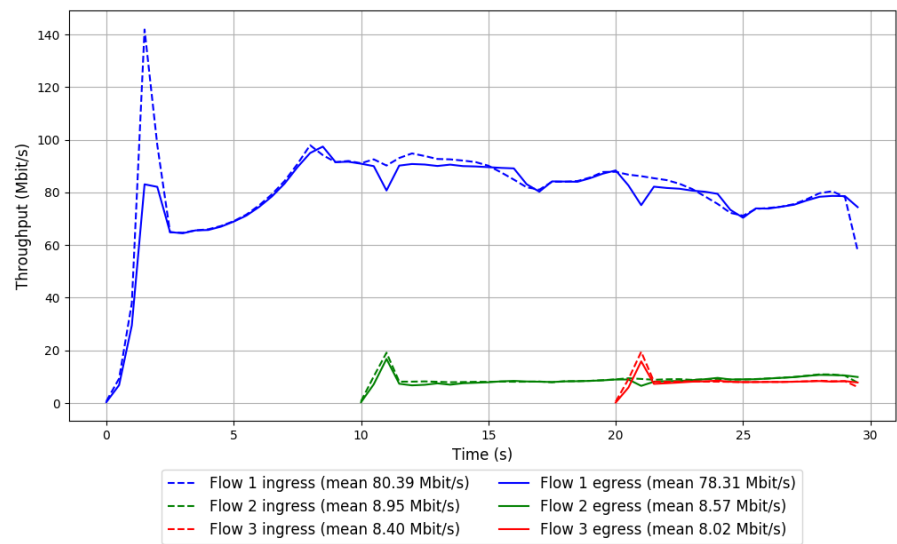
-- Flow 3:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 116.607 ms

Loss rate: 4.37%

Run 9: Report of PCC — Data Link

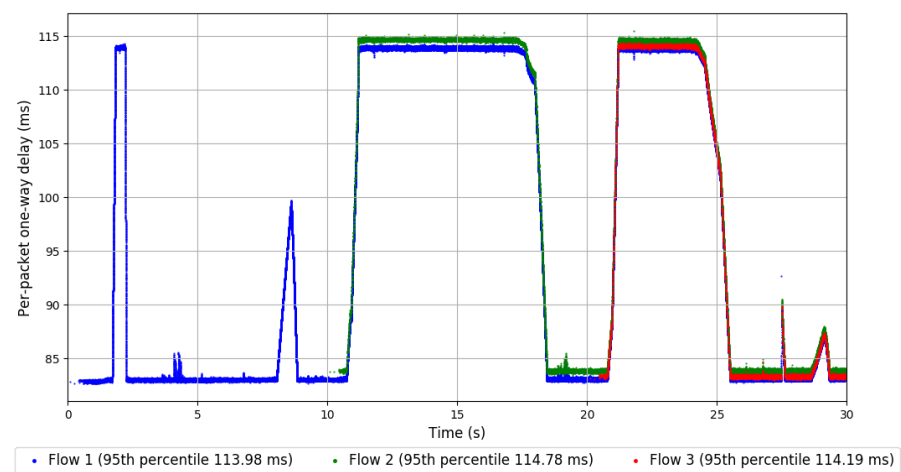
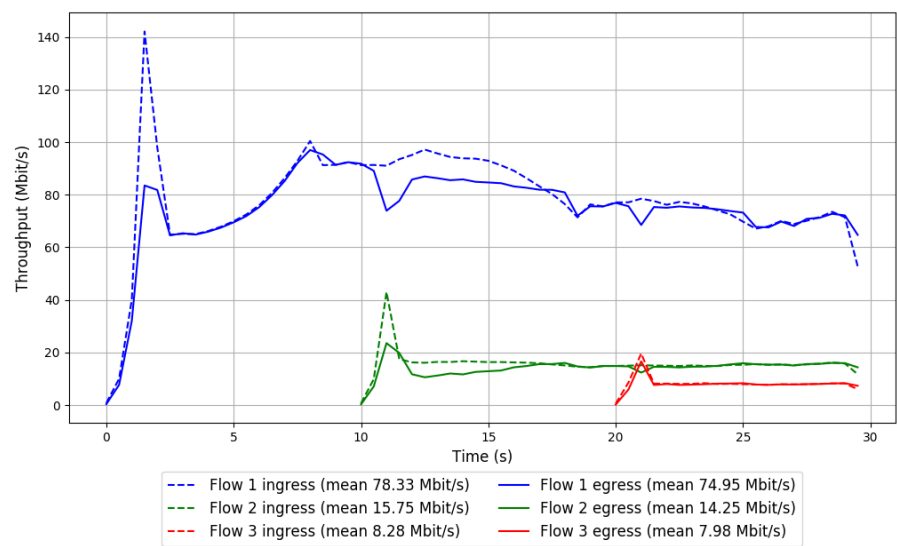


Run 10: Statistics of PCC

Start at: 2018-01-10 05:49:37  
End at: 2018-01-10 05:50:07  
Local clock offset: 3.976 ms  
Remote clock offset: -3.327 ms

# Below is generated by plot.py at 2018-01-10 06:50:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.05 Mbit/s  
95th percentile per-packet one-way delay: 114.337 ms  
Loss rate: 4.89%  
-- Flow 1:  
Average throughput: 74.95 Mbit/s  
95th percentile per-packet one-way delay: 113.977 ms  
Loss rate: 4.31%  
-- Flow 2:  
Average throughput: 14.25 Mbit/s  
95th percentile per-packet one-way delay: 114.777 ms  
Loss rate: 9.53%  
-- Flow 3:  
Average throughput: 7.98 Mbit/s  
95th percentile per-packet one-way delay: 114.186 ms  
Loss rate: 3.58%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-01-10 02:53:53

End at: 2018-01-10 02:54:23

Local clock offset: 1.663 ms

Remote clock offset: 0.608 ms

# Below is generated by plot.py at 2018-01-10 06:51:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.11 Mbit/s

95th percentile per-packet one-way delay: 113.891 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 41.81 Mbit/s

95th percentile per-packet one-way delay: 114.179 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 113.491 ms

Loss rate: 0.32%

-- Flow 3:

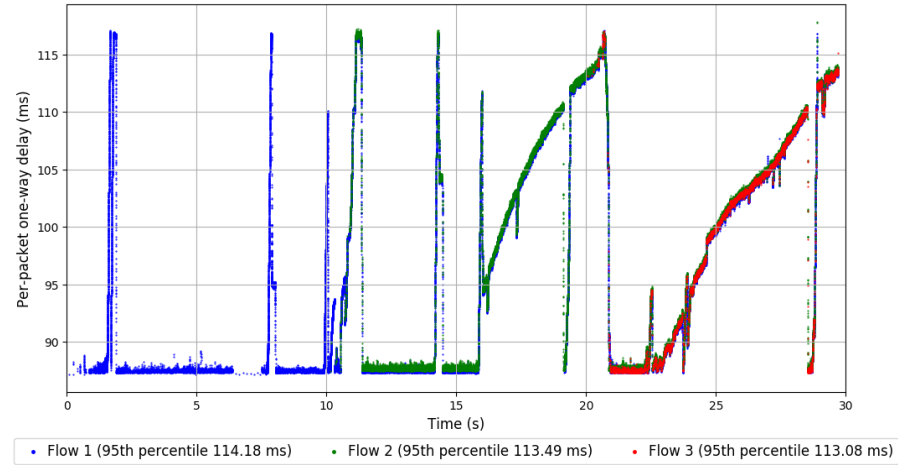
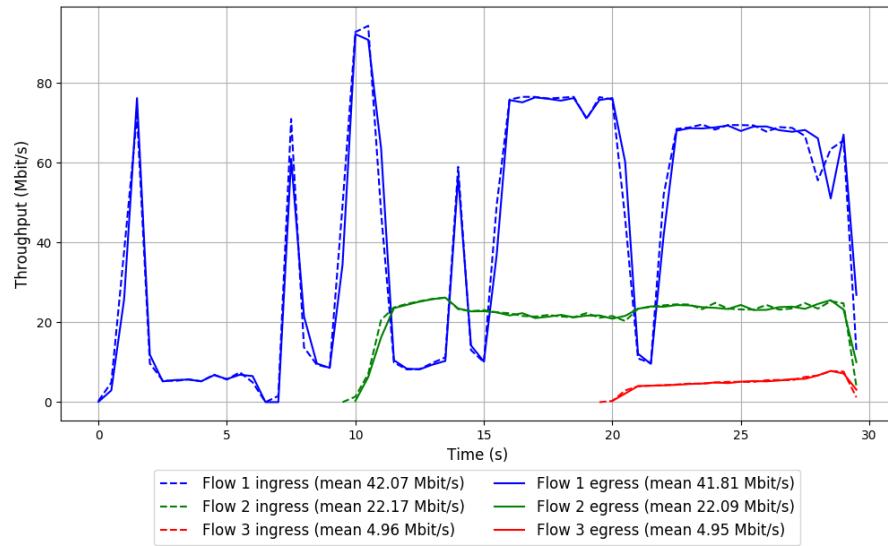
Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 113.085 ms

Loss rate: 0.07%



# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-10 03:13:26

End at: 2018-01-10 03:13:56

Local clock offset: 2.112 ms

Remote clock offset: 0.546 ms

Run 2: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of QUIC Cubic

Start at: 2018-01-10 03:32:52

End at: 2018-01-10 03:33:22

Local clock offset: 2.45 ms

Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2018-01-10 06:51:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 50.47 Mbit/s

95th percentile per-packet one-way delay: 114.815 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 114.649 ms

Loss rate: 1.75%

-- Flow 2:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 114.241 ms

Loss rate: 1.10%

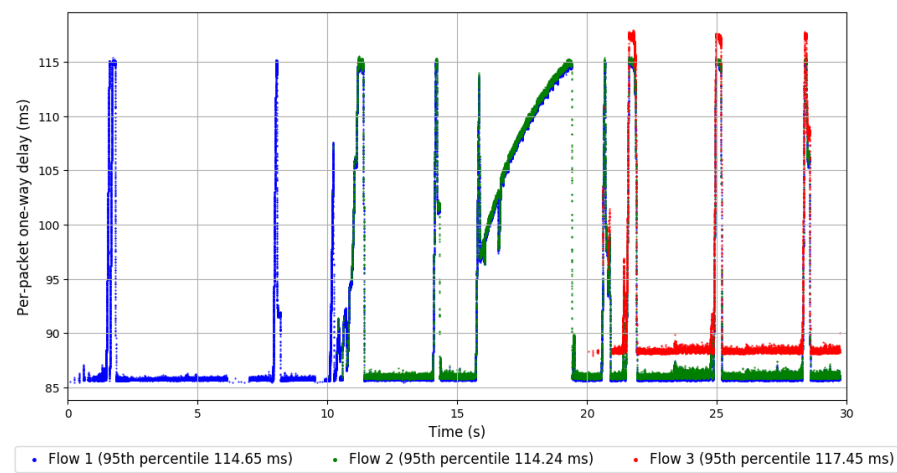
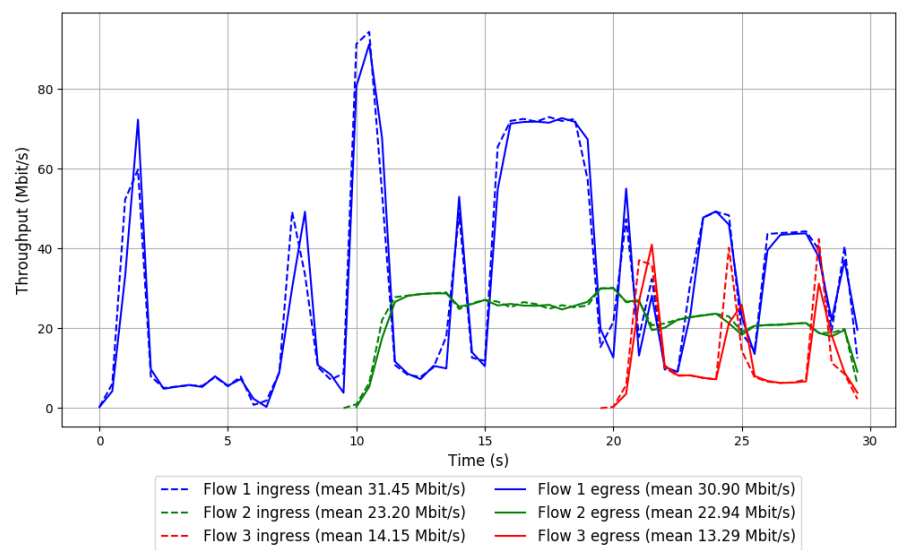
-- Flow 3:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 117.454 ms

Loss rate: 6.05%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-10 03:52:32

End at: 2018-01-10 03:53:02

Local clock offset: 2.696 ms

Remote clock offset: 1.114 ms

Run 4: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

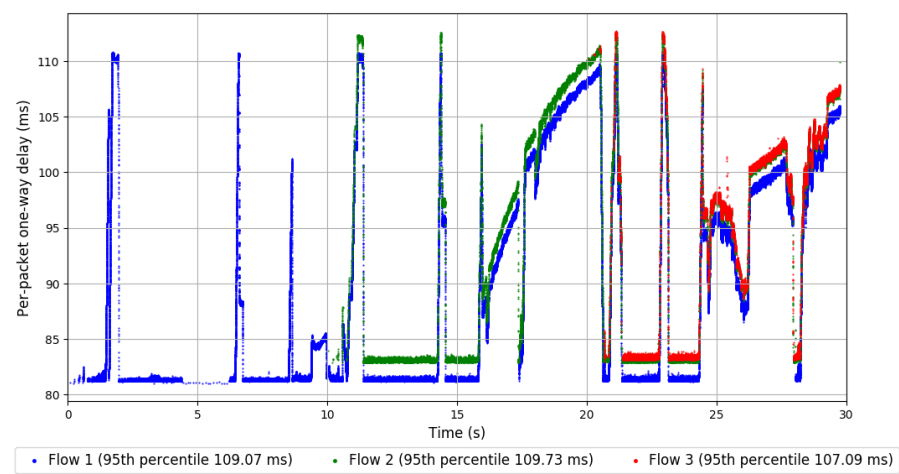
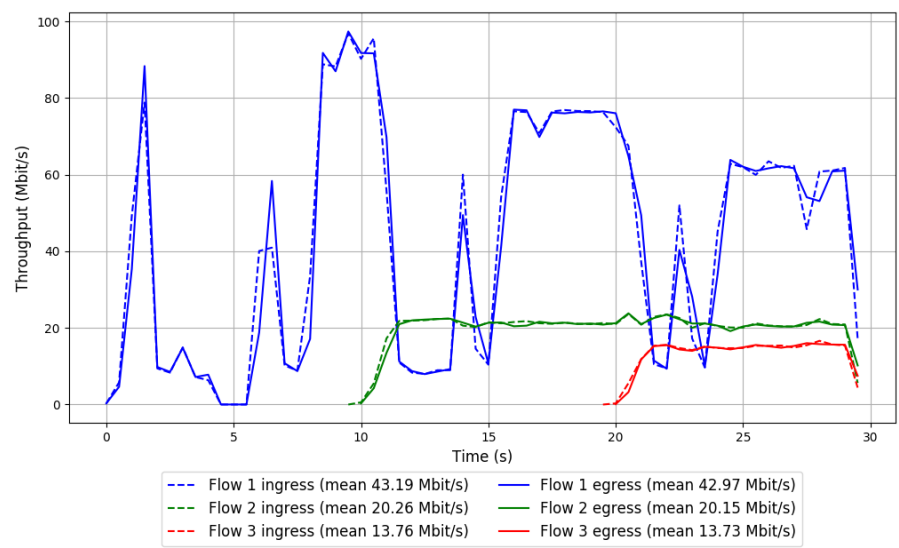
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-10 04:11:52  
End at: 2018-01-10 04:12:22  
Local clock offset: 2.627 ms  
Remote clock offset: -3.875 ms

# Below is generated by plot.py at 2018-01-10 06:52:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.82 Mbit/s  
95th percentile per-packet one-way delay: 109.190 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 42.97 Mbit/s  
95th percentile per-packet one-way delay: 109.069 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 20.15 Mbit/s  
95th percentile per-packet one-way delay: 109.728 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 13.73 Mbit/s  
95th percentile per-packet one-way delay: 107.088 ms  
Loss rate: 0.26%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

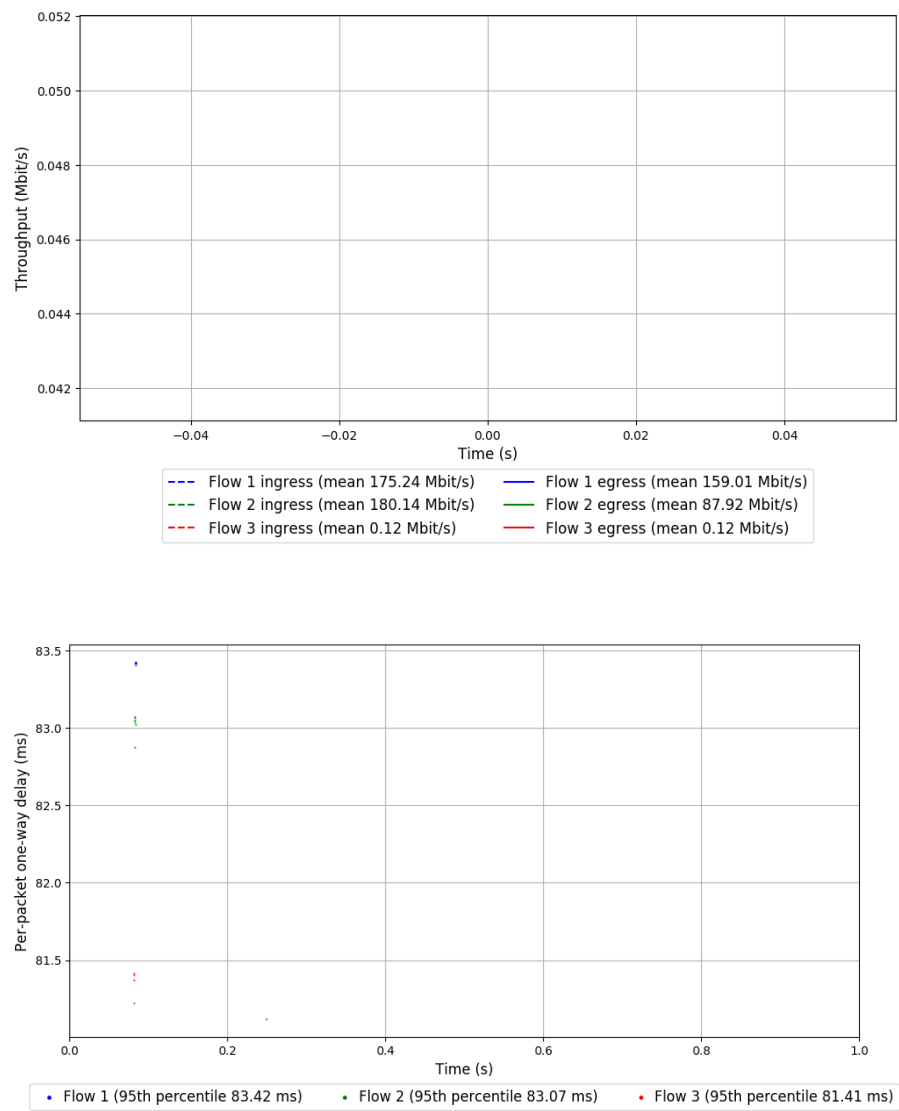
Start at: 2018-01-10 04:31:37

End at: 2018-01-10 04:32:07

Local clock offset: 2.446 ms

Remote clock offset: -3.95 ms

Run 6: Report of QUIC Cubic — Data Link

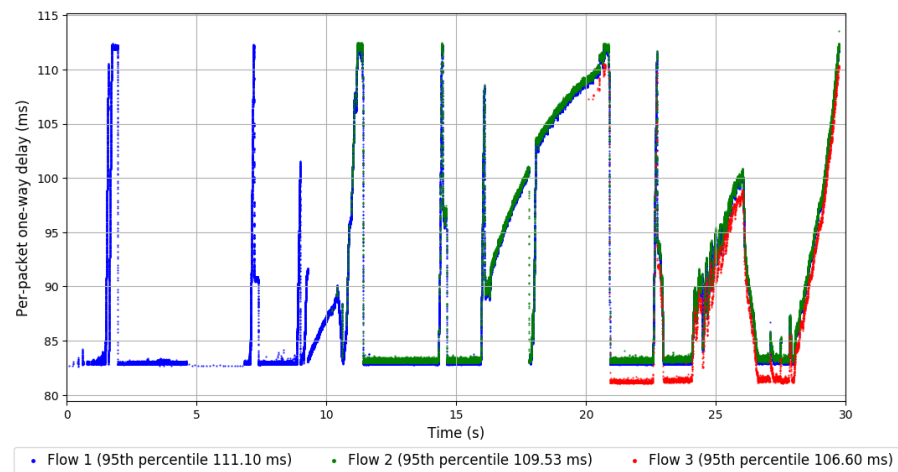
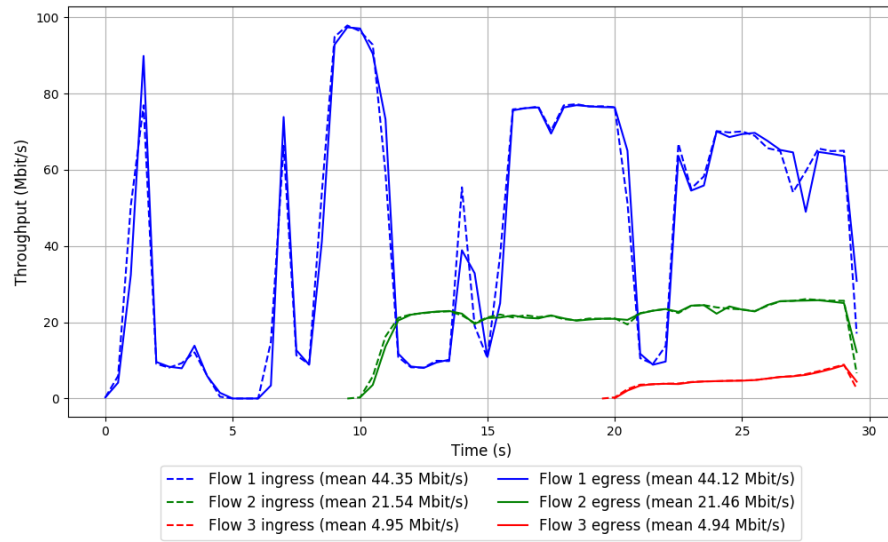


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-10 04:50:02  
End at: 2018-01-10 04:50:32  
Local clock offset: 2.597 ms  
Remote clock offset: -4.211 ms

# Below is generated by plot.py at 2018-01-10 06:52:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.98 Mbit/s  
95th percentile per-packet one-way delay: 110.781 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 44.12 Mbit/s  
95th percentile per-packet one-way delay: 111.103 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 21.46 Mbit/s  
95th percentile per-packet one-way delay: 109.535 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 4.94 Mbit/s  
95th percentile per-packet one-way delay: 106.602 ms  
Loss rate: 0.31%

## Run 7: Report of QUIC Cubic — Data Link

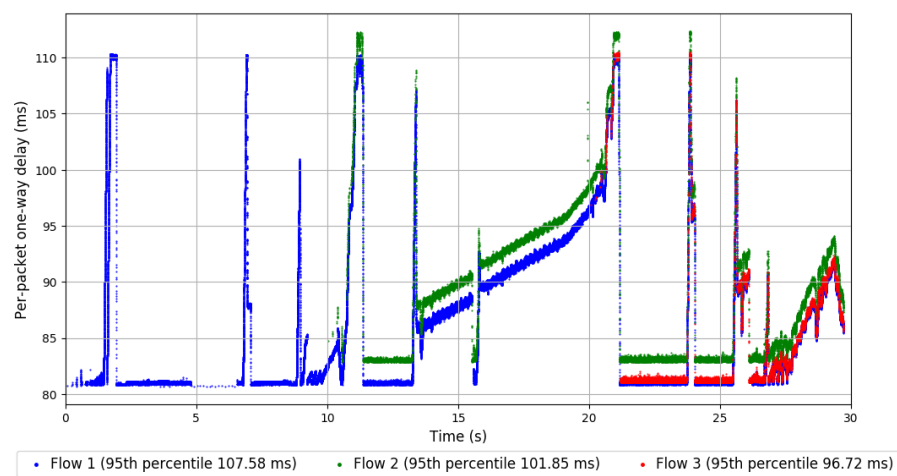
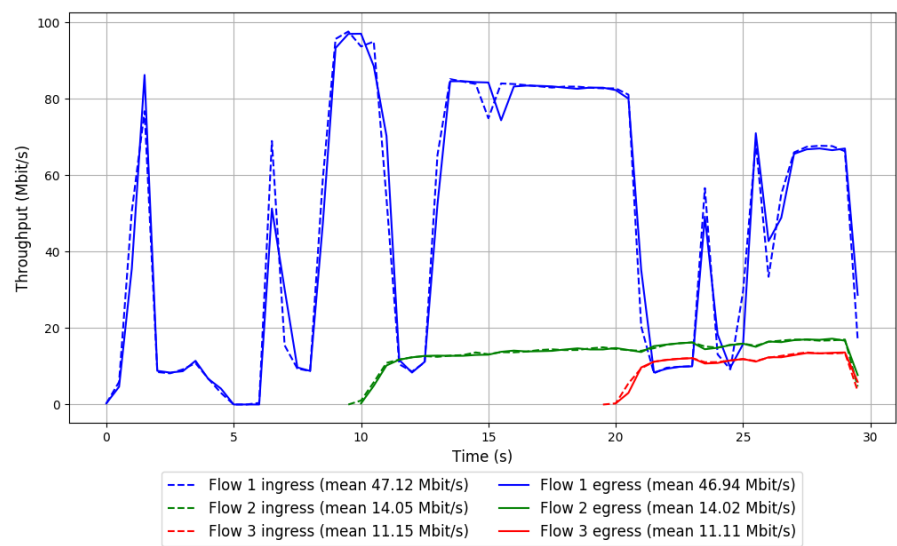


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-10 05:09:31  
End at: 2018-01-10 05:10:01  
Local clock offset: 2.995 ms  
Remote clock offset: -3.871 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.86 Mbit/s  
95th percentile per-packet one-way delay: 106.932 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 46.94 Mbit/s  
95th percentile per-packet one-way delay: 107.578 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 14.02 Mbit/s  
95th percentile per-packet one-way delay: 101.851 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 11.11 Mbit/s  
95th percentile per-packet one-way delay: 96.723 ms  
Loss rate: 0.48%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-10 05:28:59

End at: 2018-01-10 05:29:29

Local clock offset: 3.582 ms

Remote clock offset: 1.281 ms



Run 9: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of QUIC Cubic

Start at: 2018-01-10 05:48:24

End at: 2018-01-10 05:48:54

Local clock offset: 4.003 ms

Remote clock offset: -4.247 ms

Run 10: Report of QUIC Cubic — Data Link

Figure is missing

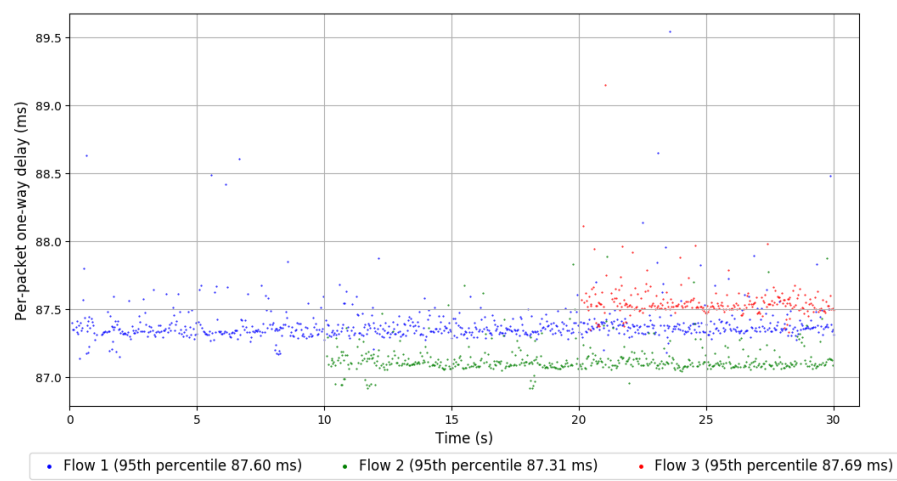
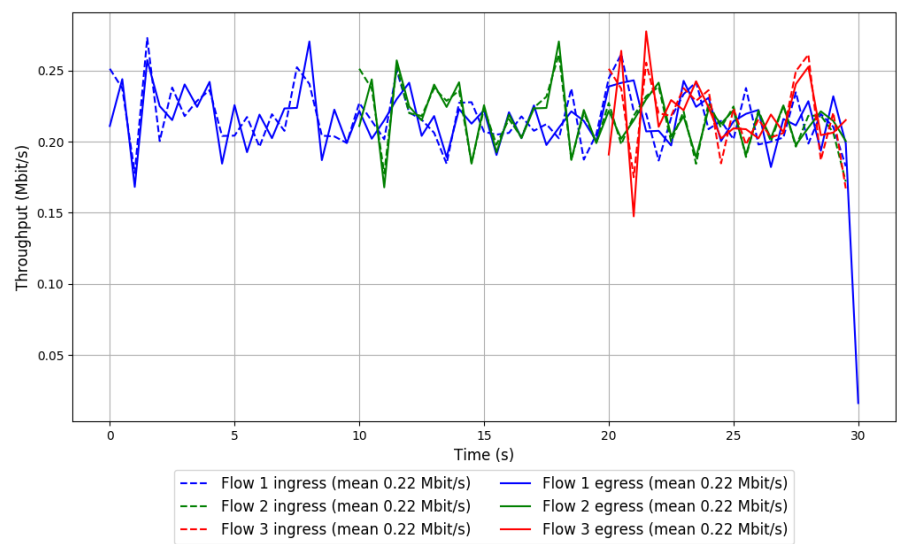
Figure is missing

```
Run 1: Statistics of SReAM

Start at: 2018-01-10 02:57:46
End at: 2018-01-10 02:58:16
Local clock offset: 1.692 ms
Remote clock offset: 0.582 ms

# Below is generated by plot.py at 2018-01-10 06:52:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 87.614 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.596 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.309 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.688 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-01-10 03:17:16

End at: 2018-01-10 03:17:46

Local clock offset: 2.176 ms

Remote clock offset: -3.95 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 83.725 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.156 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.804 ms

Loss rate: 0.00%

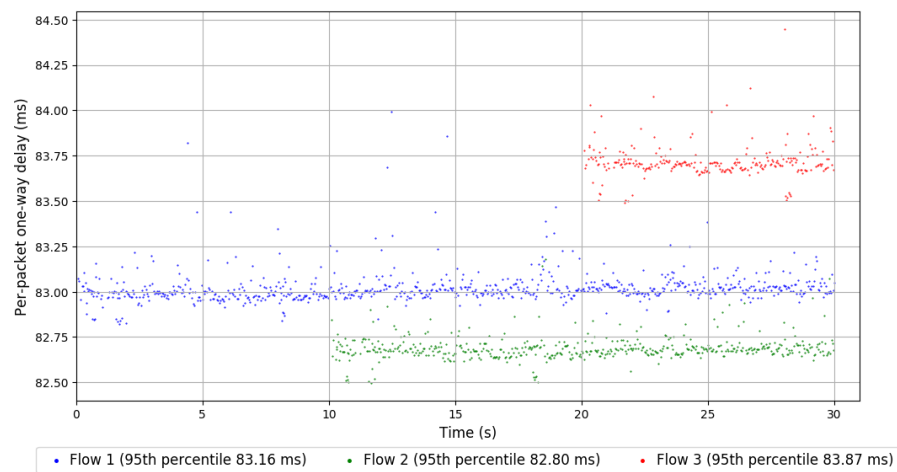
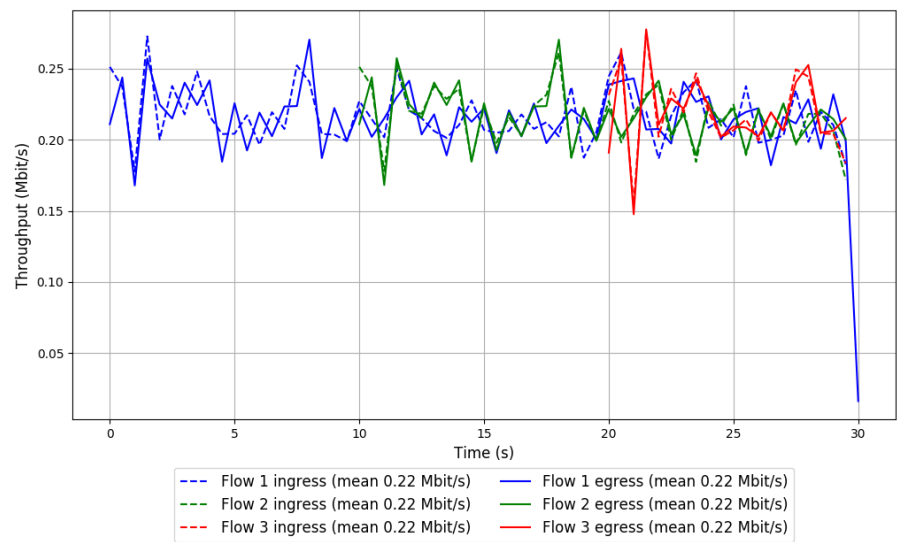
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.872 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-01-10 03:36:56

End at: 2018-01-10 03:37:26

Local clock offset: 2.485 ms

Remote clock offset: 0.709 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 86.981 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.358 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.016 ms

Loss rate: 0.00%

-- Flow 3:

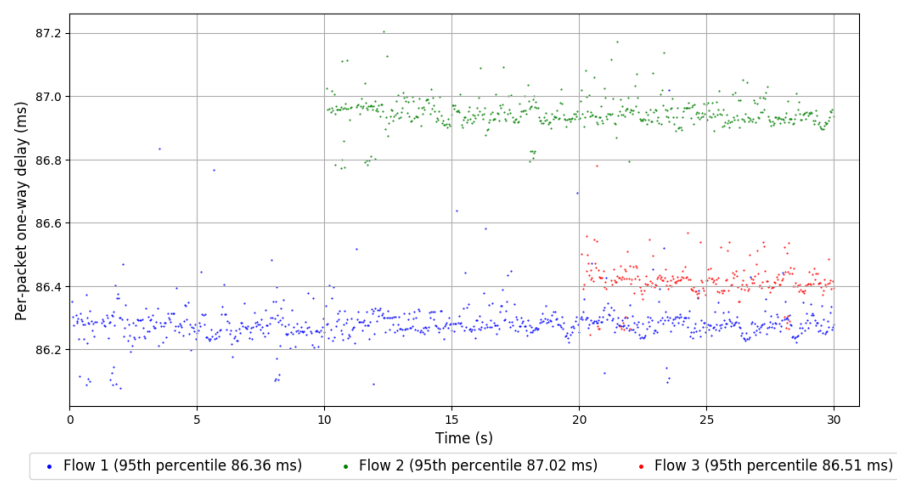
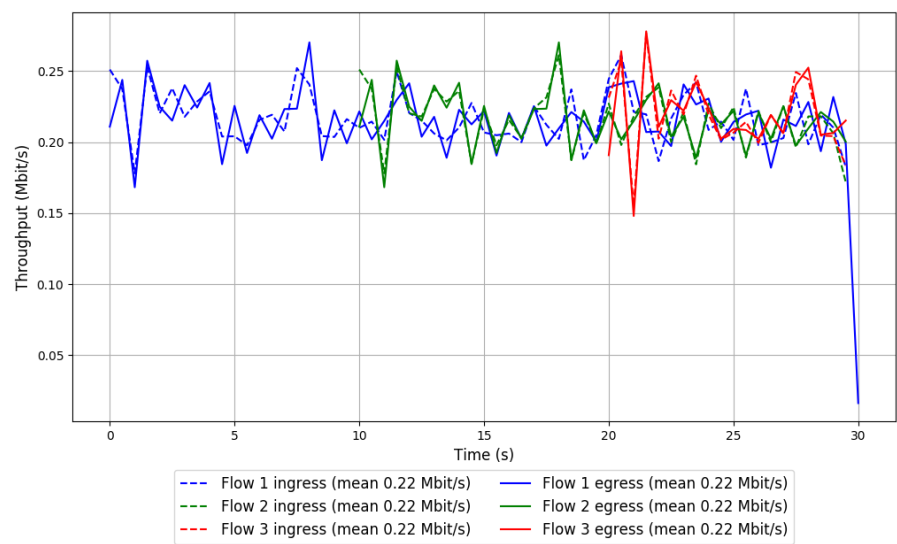
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.513 ms

Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-10 03:56:19

End at: 2018-01-10 03:56:49

Local clock offset: 2.724 ms

Remote clock offset: 1.077 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 88.341 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.249 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.889 ms

Loss rate: 0.00%

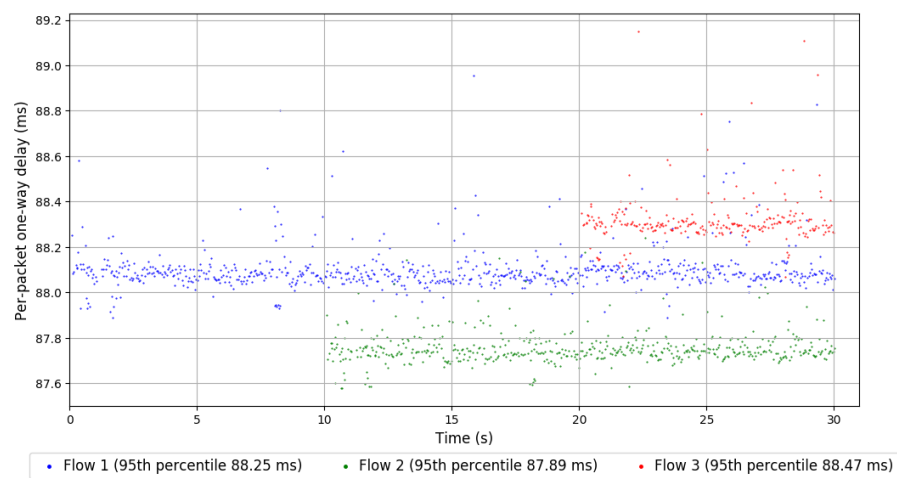
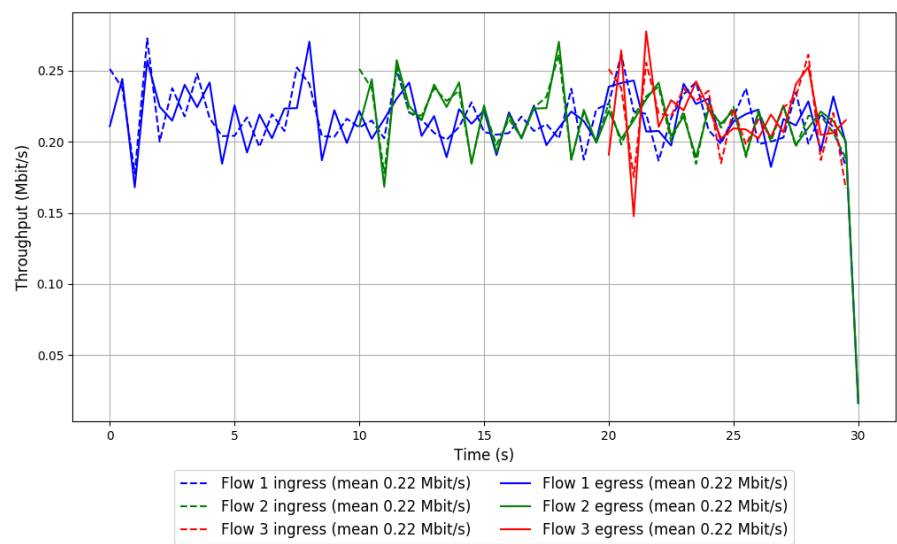
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.470 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

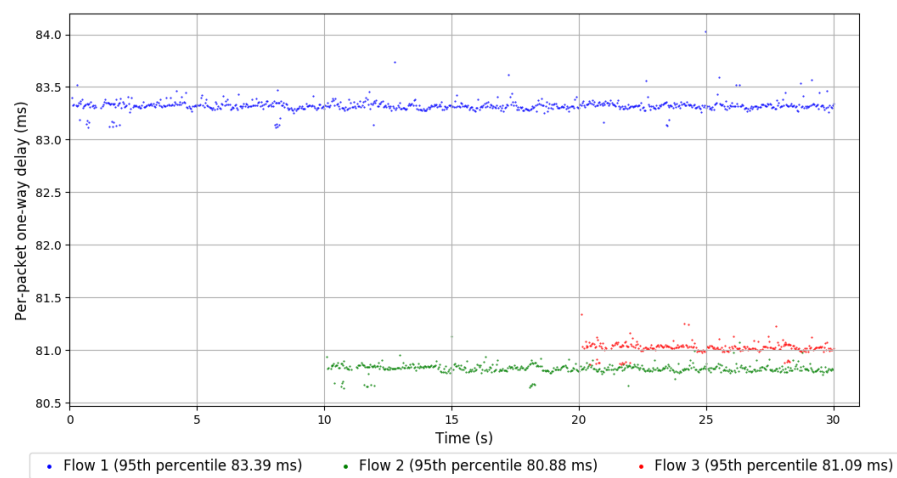
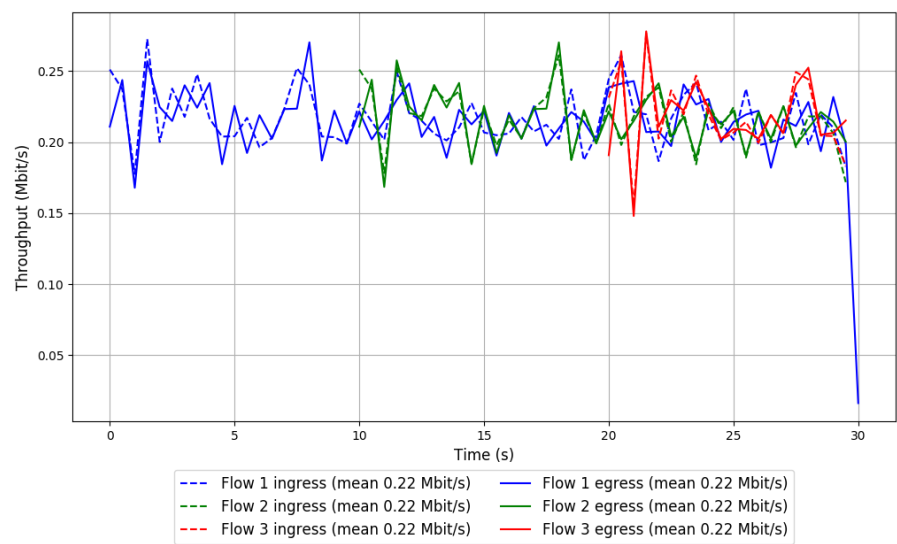


Run 5: Statistics of SReAM

Start at: 2018-01-10 04:15:57  
End at: 2018-01-10 04:16:27  
Local clock offset: 2.584 ms  
Remote clock offset: -4.129 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 83.363 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.390 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.880 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.095 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

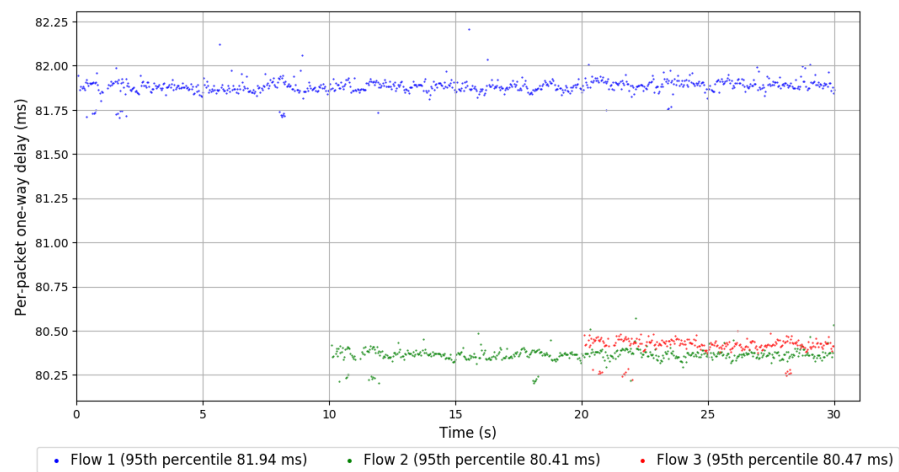
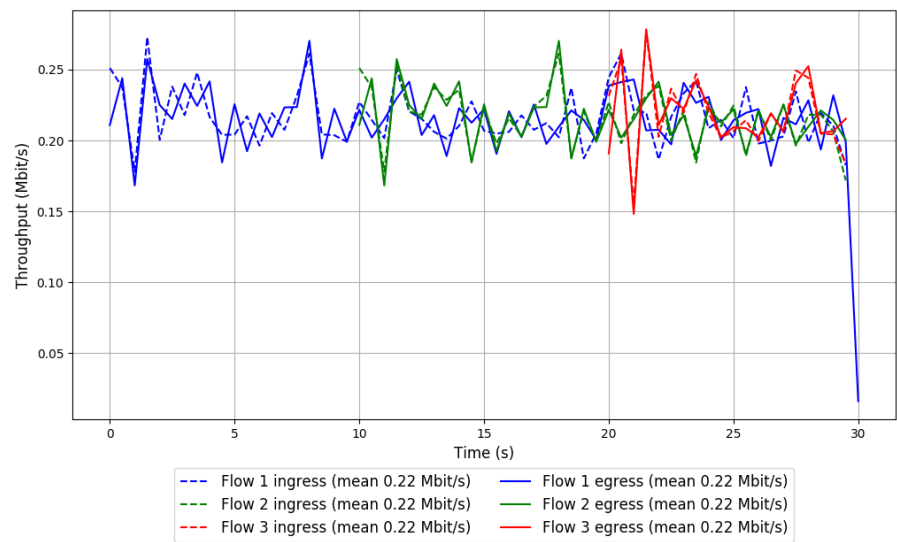


Run 6: Statistics of SReAM

Start at: 2018-01-10 04:35:27  
End at: 2018-01-10 04:35:57  
Local clock offset: 2.461 ms  
Remote clock offset: -4.822 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 81.920 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.935 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.405 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.469 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



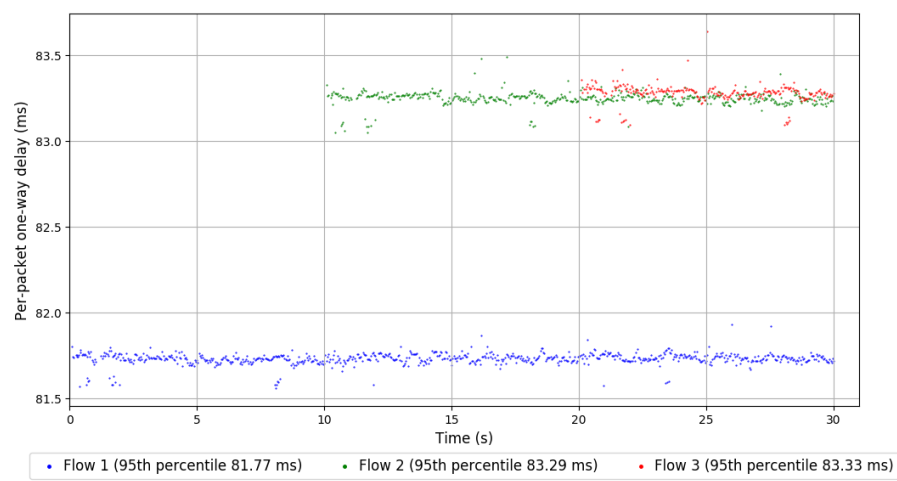
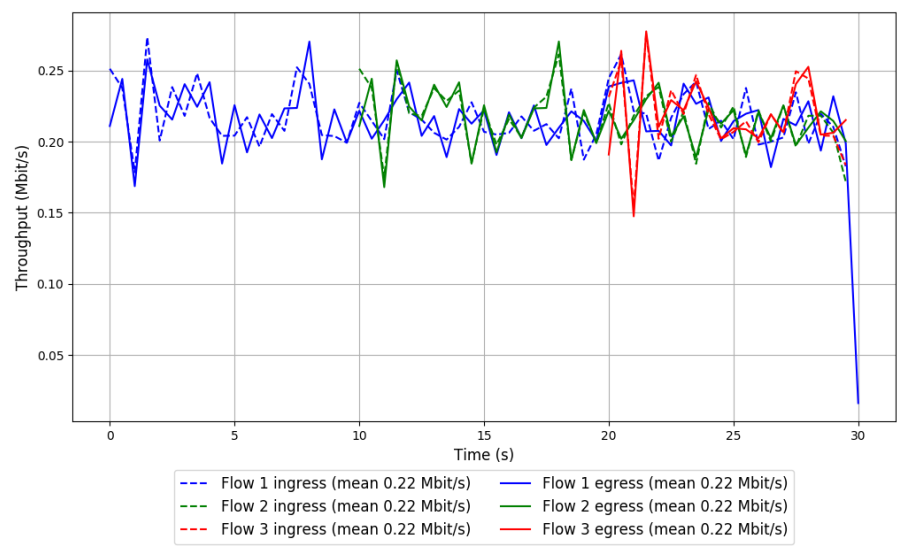
Run 7: Statistics of SReAM

Start at: 2018-01-10 04:53:55  
End at: 2018-01-10 04:54:25  
Local clock offset: 2.614 ms  
Remote clock offset: -3.695 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 83.303 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.772 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.294 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 83.333 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-10 05:13:24

End at: 2018-01-10 05:13:54

Local clock offset: 3.058 ms

Remote clock offset: -3.74 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 83.747 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.073 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.921 ms

Loss rate: 0.00%

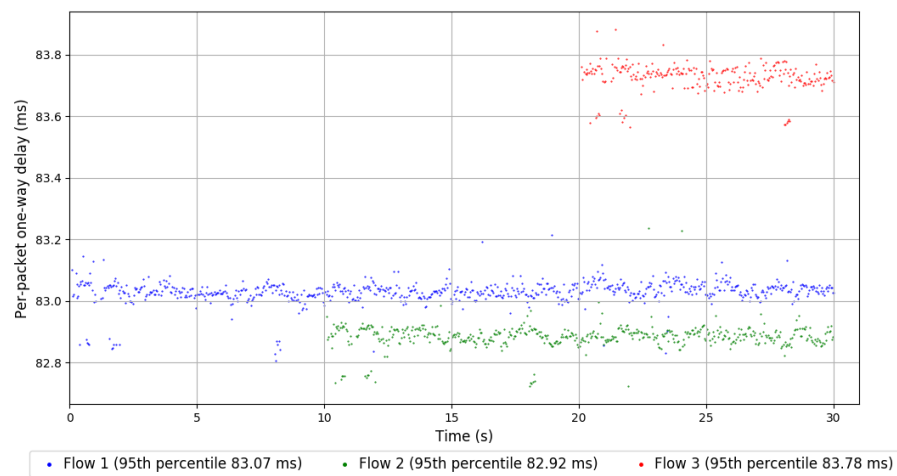
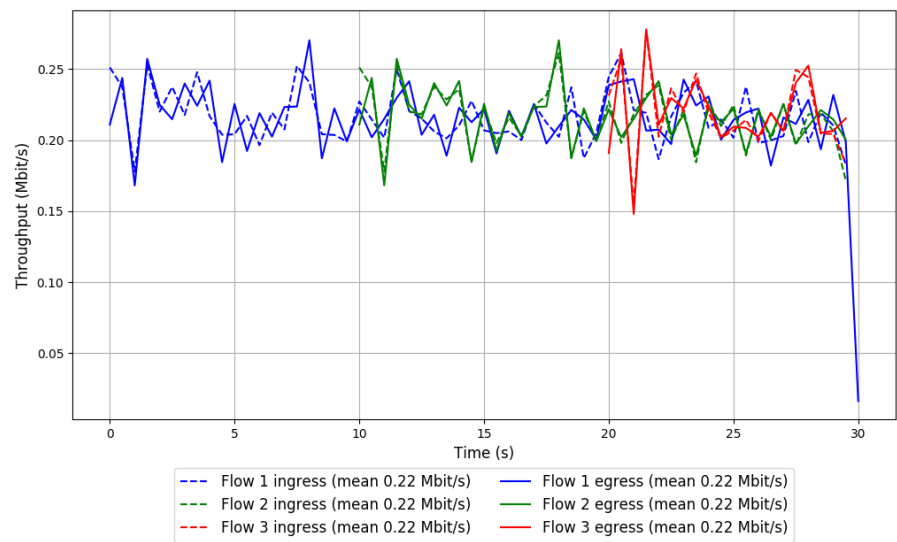
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.776 ms

Loss rate: 0.00%

Run 8: Report of SCReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-10 05:32:47

End at: 2018-01-10 05:33:17

Local clock offset: 3.722 ms

Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 86.616 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.627 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.123 ms

Loss rate: 0.00%

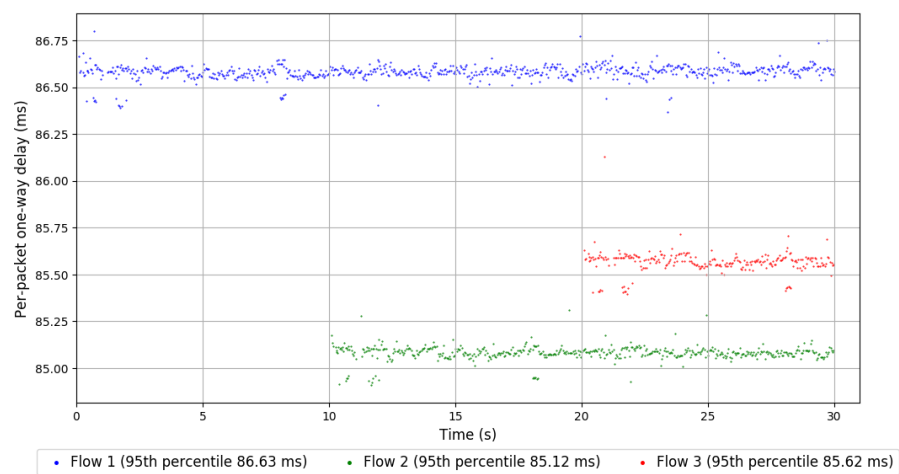
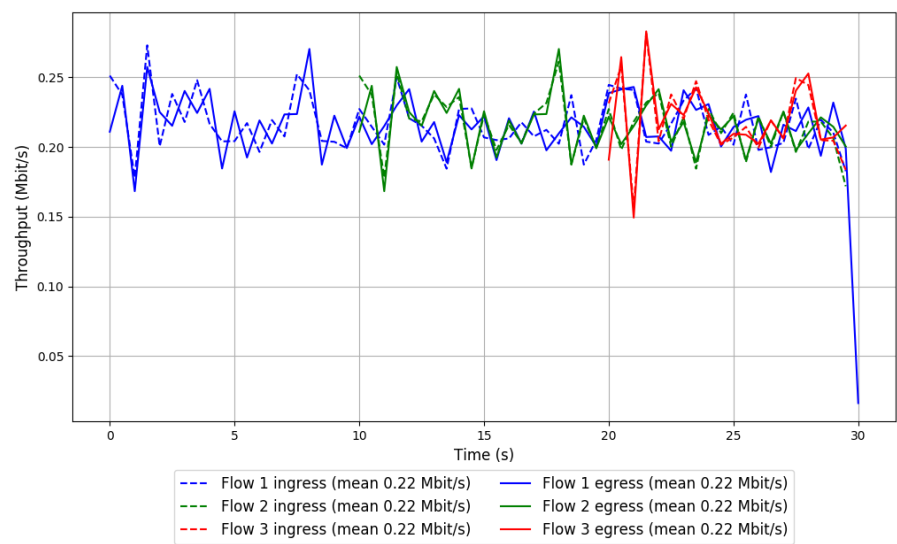
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.619 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

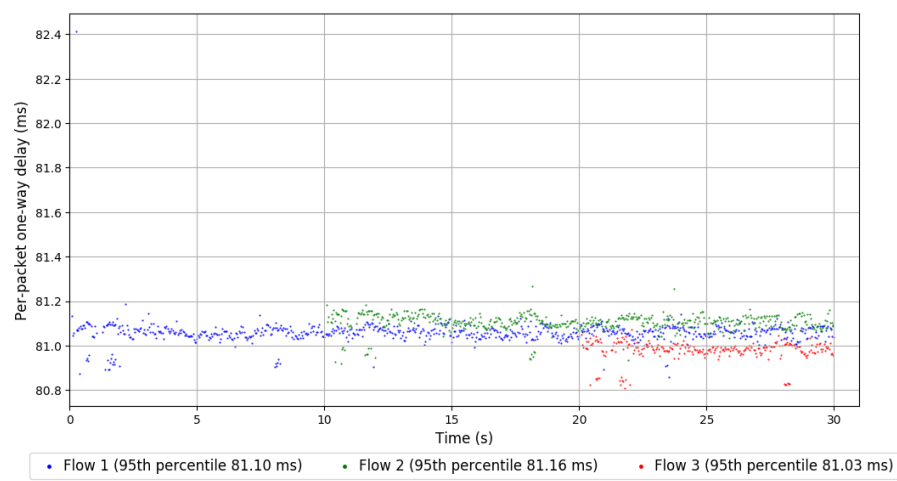
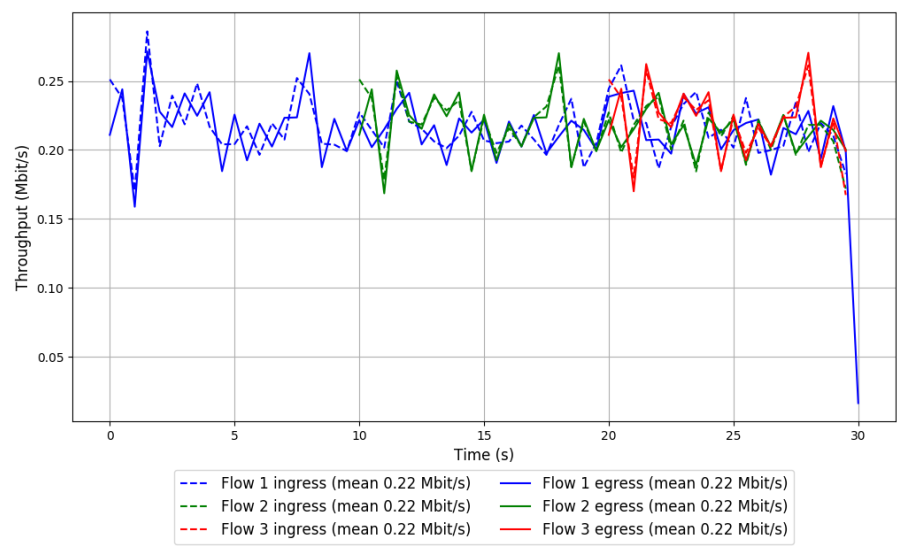


Run 10: Statistics of SReAM

Start at: 2018-01-10 05:52:17  
End at: 2018-01-10 05:52:47  
Local clock offset: 3.977 ms  
Remote clock offset: -3.705 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 81.140 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.099 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.155 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.025 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



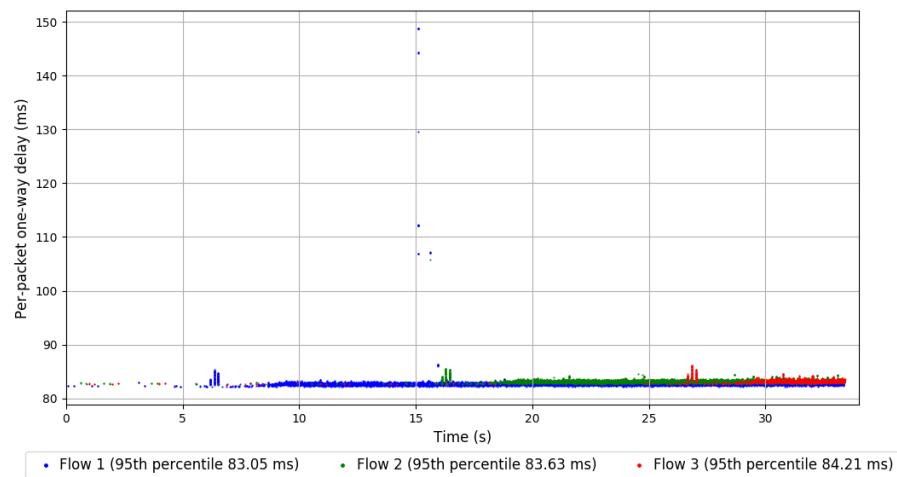
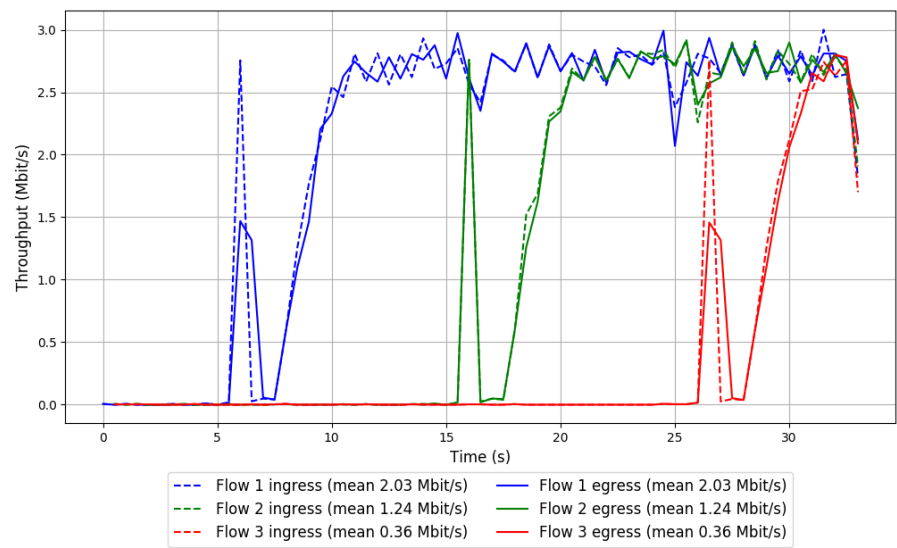
Run 1: Statistics of WebRTC media

Start at: 2018-01-10 02:59:00  
End at: 2018-01-10 02:59:30  
Local clock offset: 1.638 ms  
Remote clock offset: -4.172 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.60 Mbit/s  
95th percentile per-packet one-way delay: 83.525 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 83.046 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 1.24 Mbit/s  
95th percentile per-packet one-way delay: 83.627 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 84.214 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-10 03:18:29

End at: 2018-01-10 03:18:59

Local clock offset: 2.223 ms

Remote clock offset: 0.765 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 88.662 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 86.285 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 88.869 ms

Loss rate: 0.00%

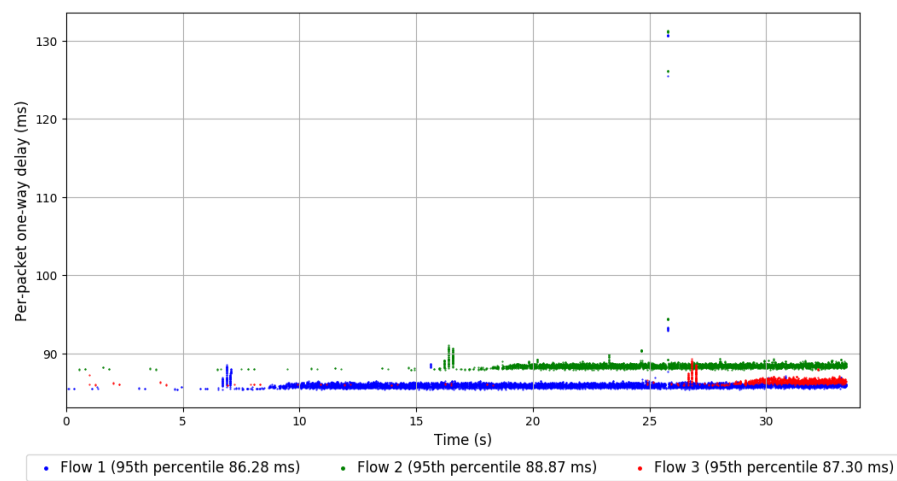
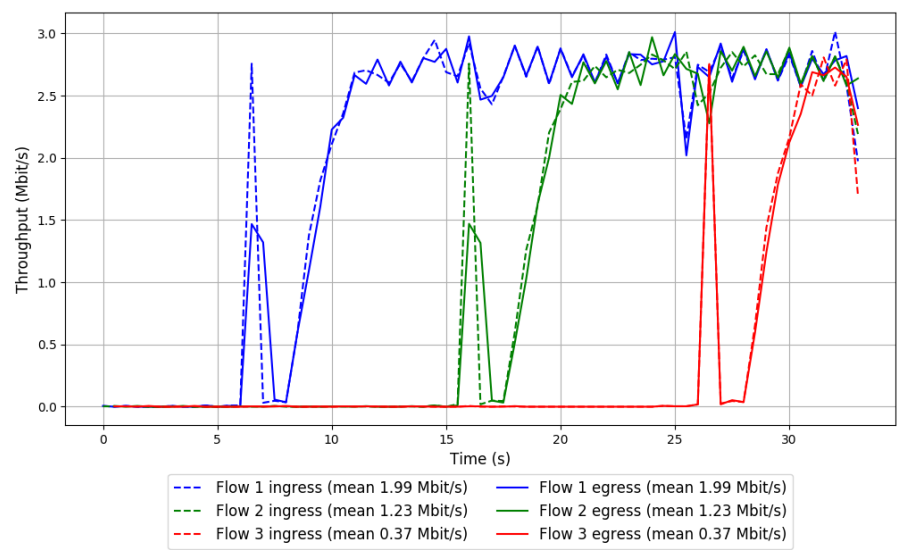
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 87.295 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-10 03:38:10

End at: 2018-01-10 03:38:40

Local clock offset: 2.491 ms

Remote clock offset: 0.757 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 88.692 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 88.495 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 86.691 ms

Loss rate: 0.00%

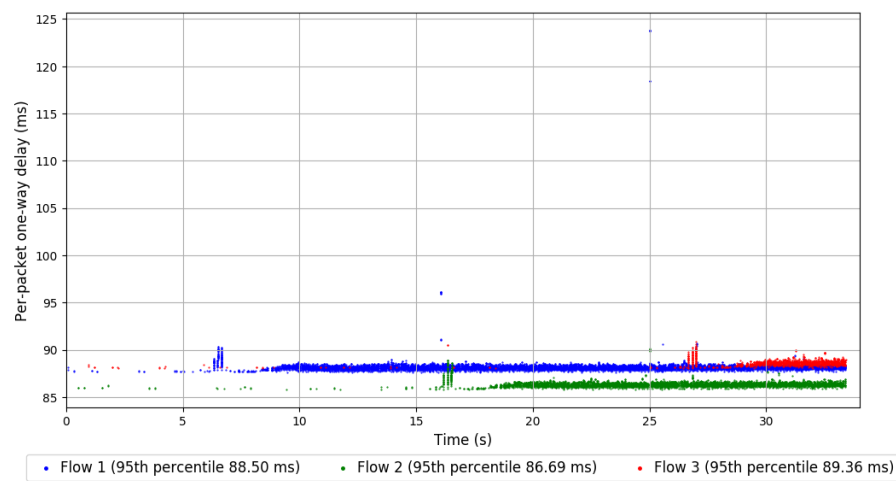
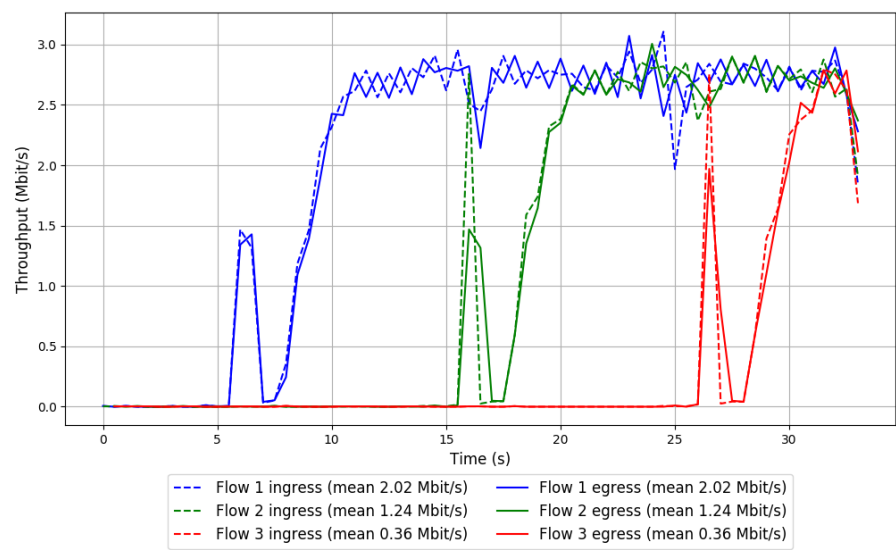
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 89.364 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-10 03:57:32

End at: 2018-01-10 03:58:02

Local clock offset: 2.744 ms

Remote clock offset: 1.045 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 87.274 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 87.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 87.186 ms

Loss rate: 0.00%

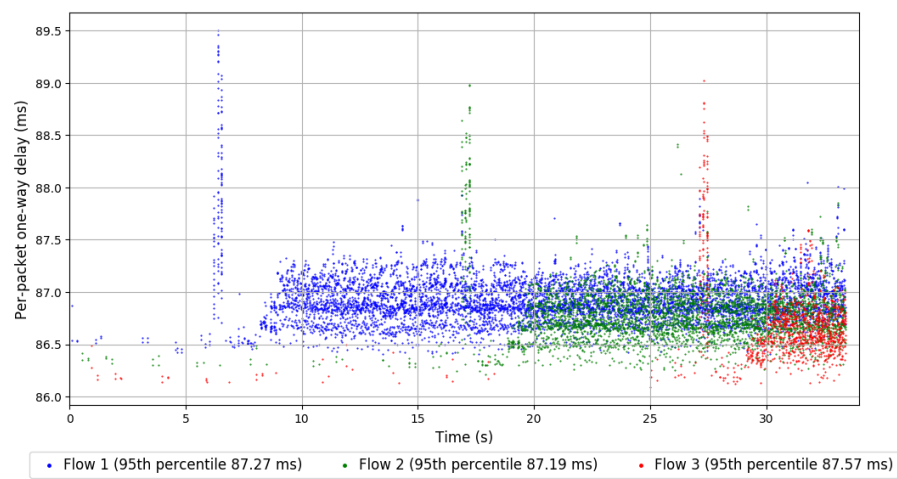
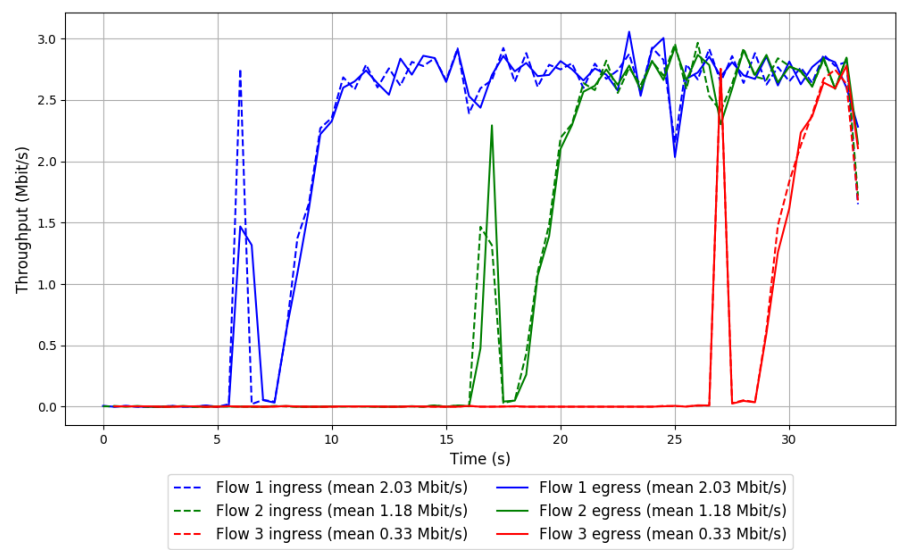
-- Flow 3:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 87.567 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-10 04:17:11

End at: 2018-01-10 04:17:41

Local clock offset: 2.569 ms

Remote clock offset: 1.503 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.58 Mbit/s

95th percentile per-packet one-way delay: 89.519 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 87.310 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 87.469 ms

Loss rate: 0.00%

-- Flow 3:

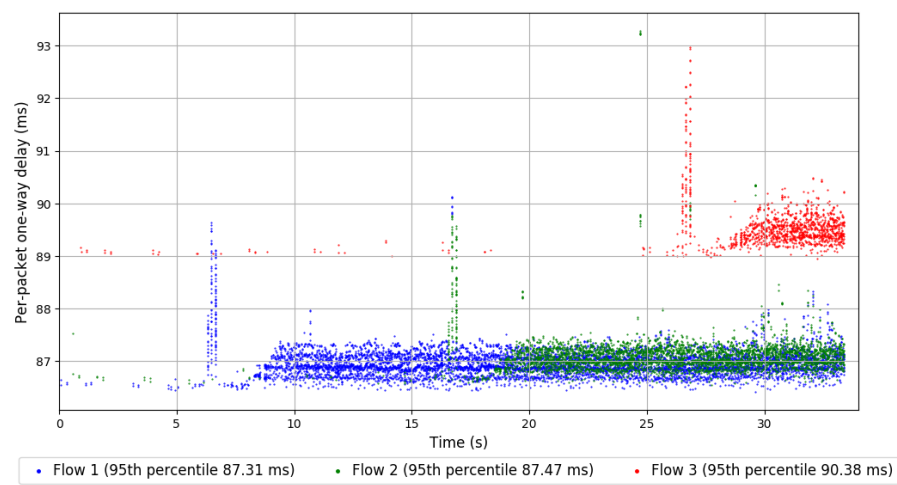
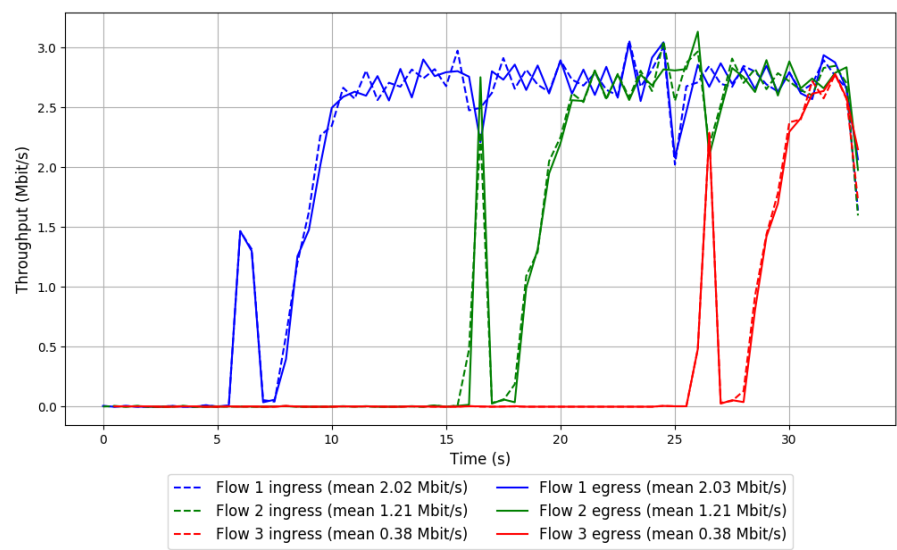
Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 90.376 ms

Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

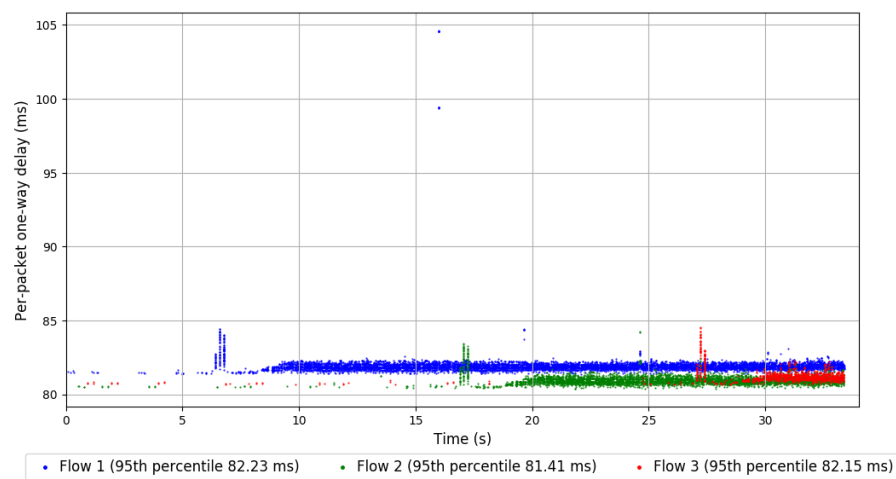
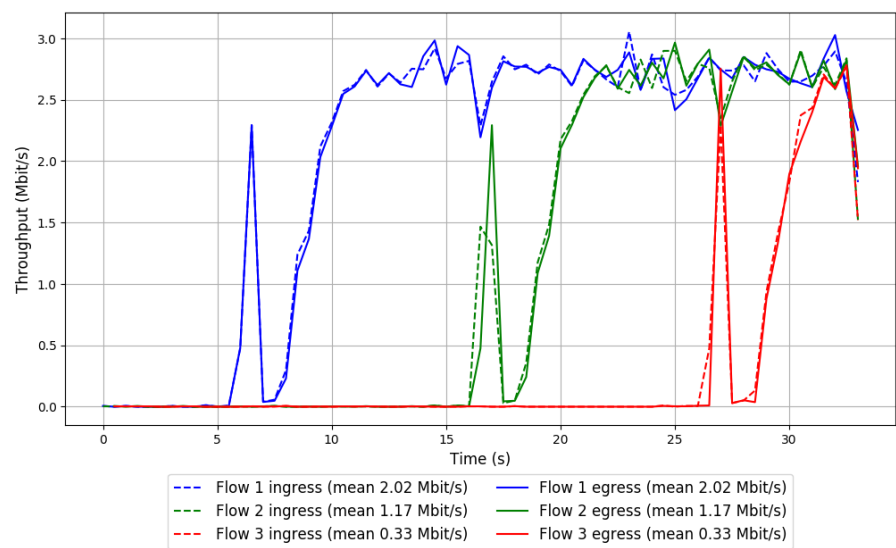


Run 6: Statistics of WebRTC media

Start at: 2018-01-10 04:36:40  
End at: 2018-01-10 04:37:10  
Local clock offset: 2.532 ms  
Remote clock offset: -4.579 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.50 Mbit/s  
95th percentile per-packet one-way delay: 82.185 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.02 Mbit/s  
95th percentile per-packet one-way delay: 82.226 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.17 Mbit/s  
95th percentile per-packet one-way delay: 81.414 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 82.147 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-10 04:55:09

End at: 2018-01-10 04:55:39

Local clock offset: 2.56 ms

Remote clock offset: -4.49 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 83.094 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 83.079 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 82.272 ms

Loss rate: 0.00%

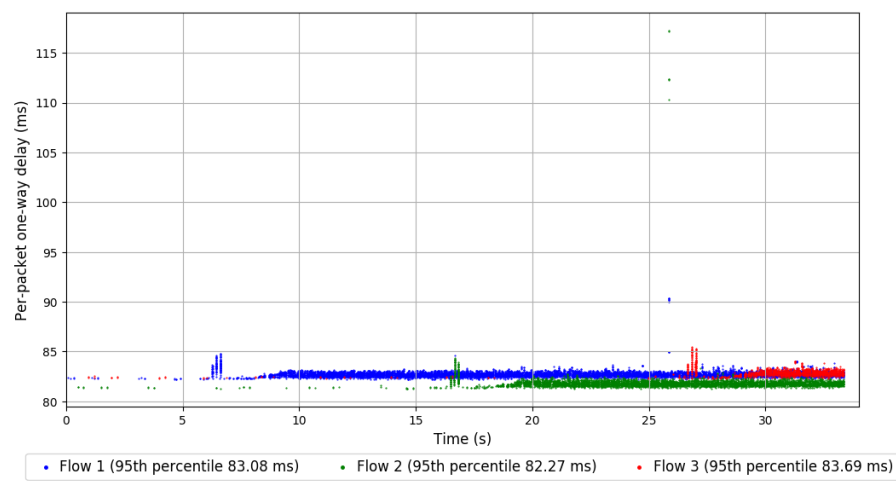
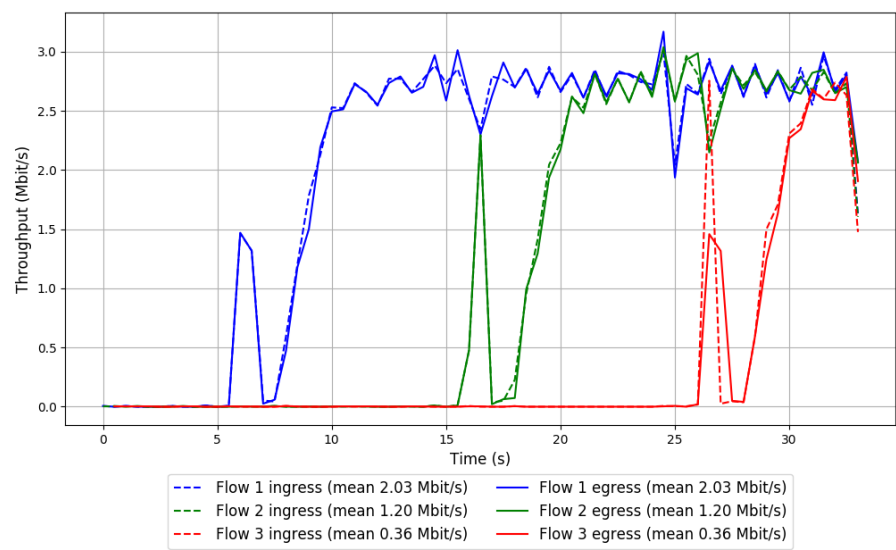
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 83.690 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

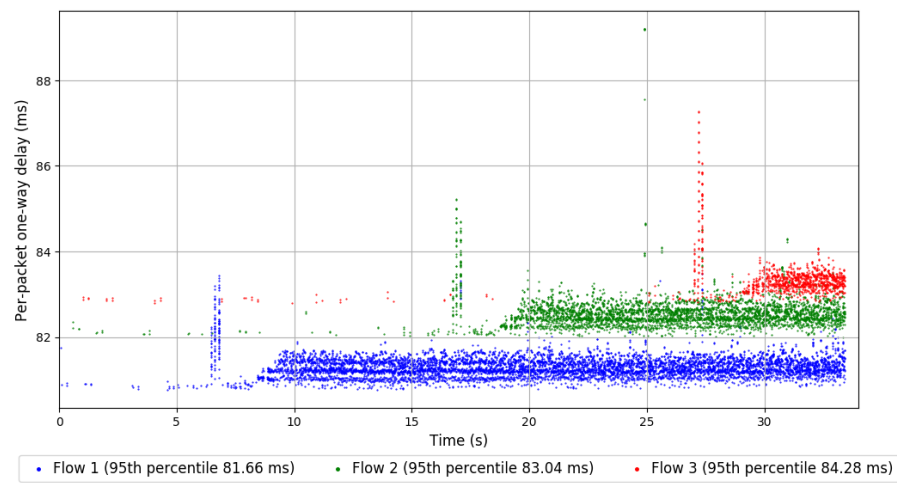
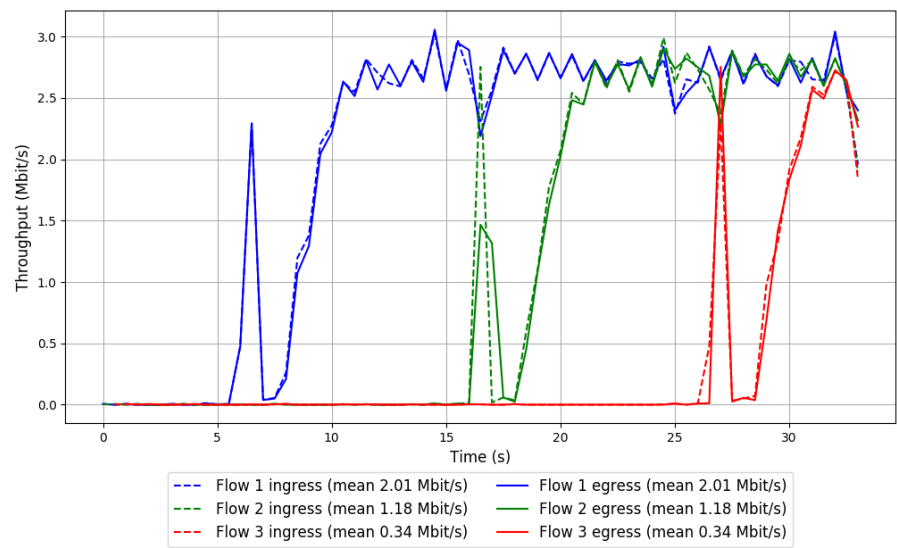


Run 8: Statistics of WebRTC media

Start at: 2018-01-10 05:14:37  
End at: 2018-01-10 05:15:07  
Local clock offset: 3.111 ms  
Remote clock offset: -4.157 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.51 Mbit/s  
95th percentile per-packet one-way delay: 83.336 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 81.656 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.18 Mbit/s  
95th percentile per-packet one-way delay: 83.044 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 84.280 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-10 05:34:00

End at: 2018-01-10 05:34:30

Local clock offset: 3.674 ms

Remote clock offset: 0.933 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 88.153 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 86.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 88.352 ms

Loss rate: 0.00%

-- Flow 3:

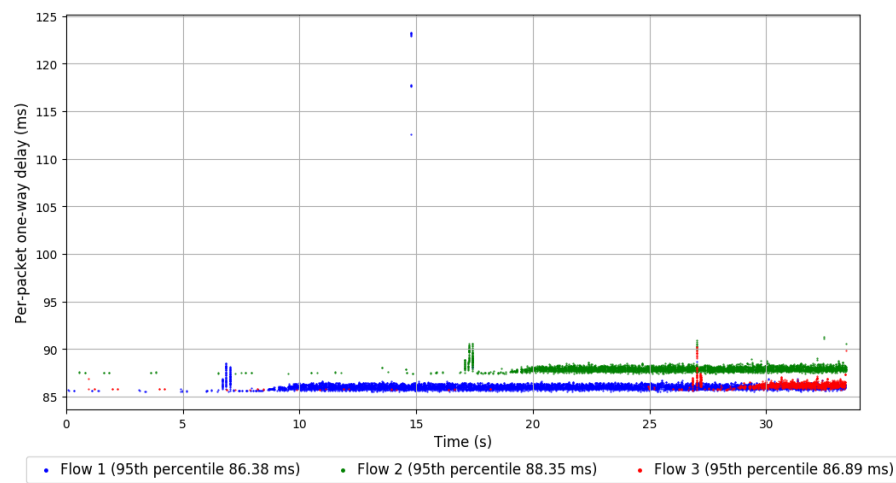
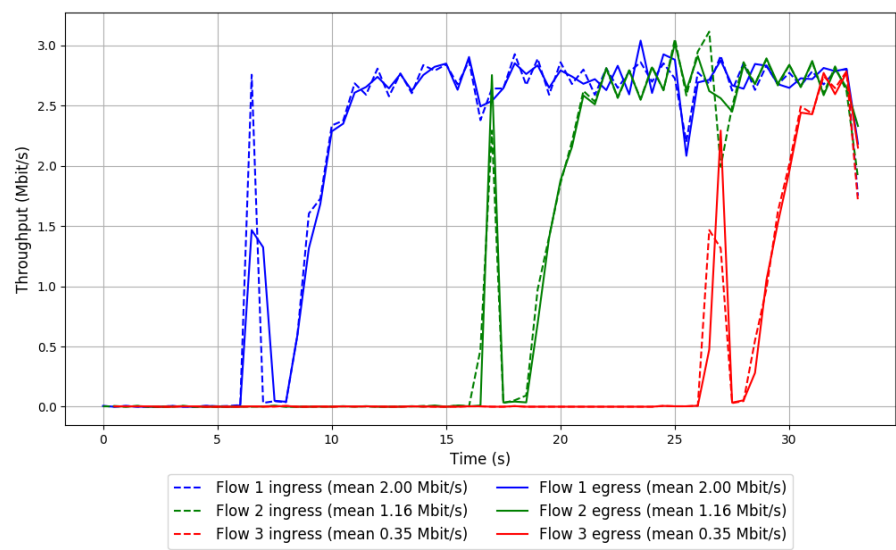
Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 86.895 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-10 05:53:31

End at: 2018-01-10 05:54:01

Local clock offset: 4.077 ms

Remote clock offset: 1.602 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 88.600 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 88.451 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 86.661 ms

Loss rate: 0.00%

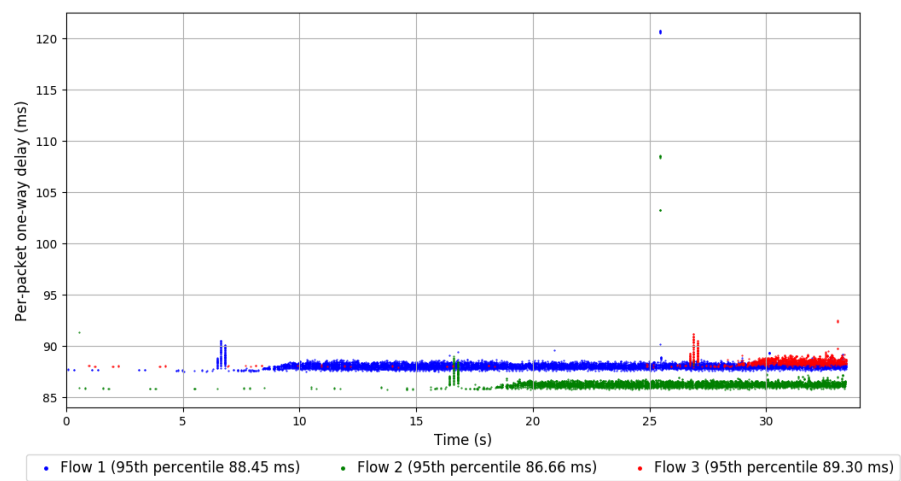
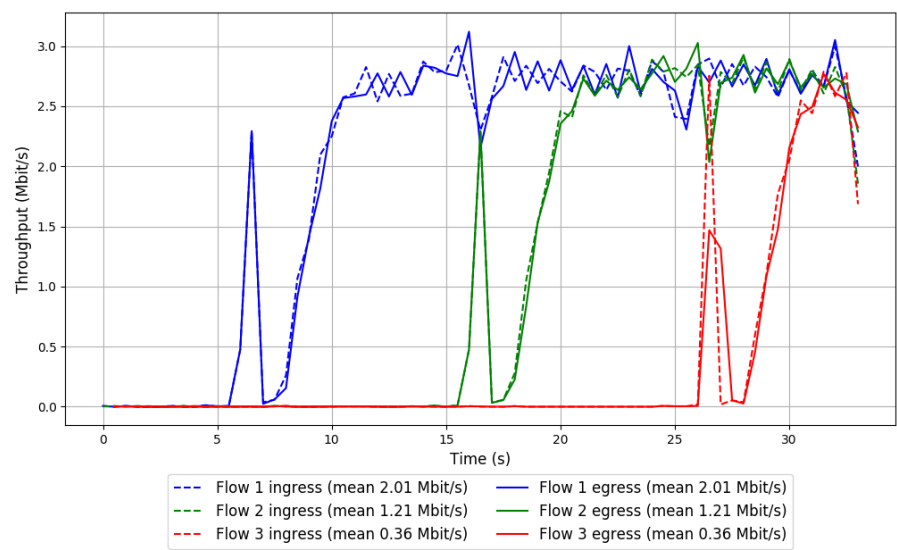
-- Flow 3:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 89.302 ms

Loss rate: 0.01%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-10 03:10:50

End at: 2018-01-10 03:11:20

Local clock offset: 2.048 ms

Remote clock offset: 1.038 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 94.216 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 94.437 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.57 Mbit/s

95th percentile per-packet one-way delay: 93.989 ms

Loss rate: 0.00%

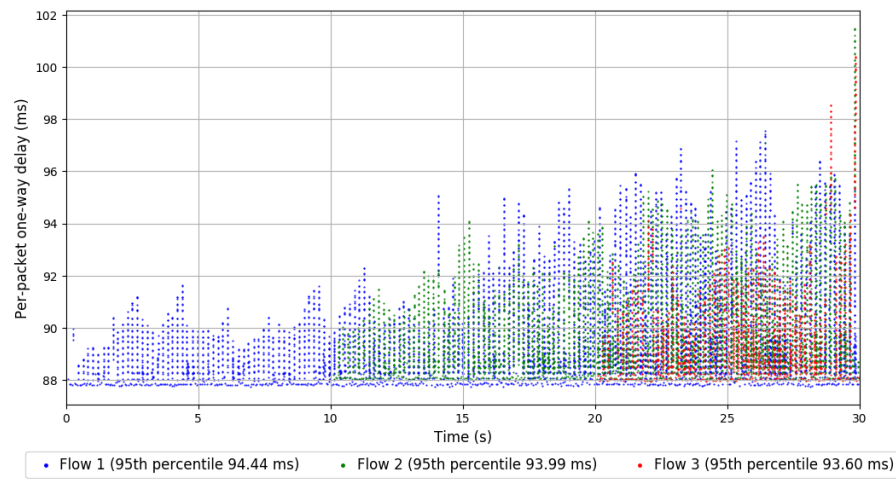
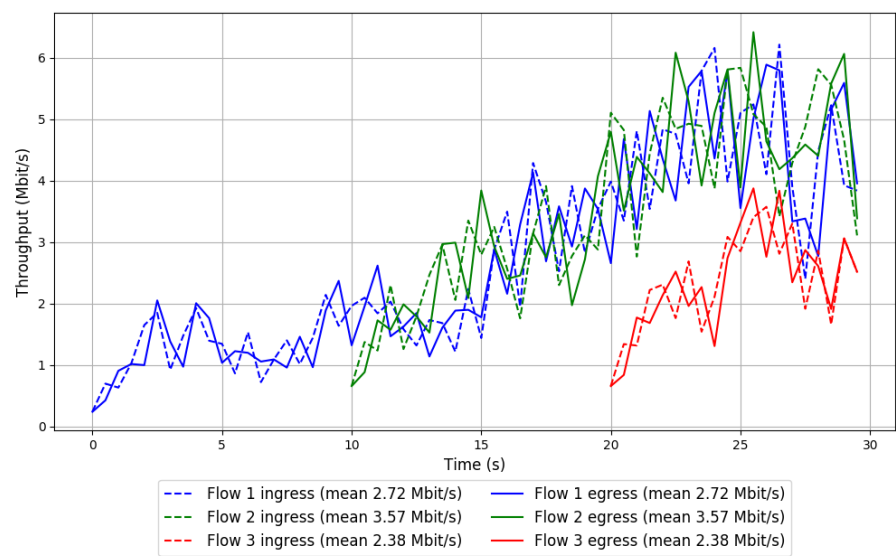
-- Flow 3:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 93.597 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

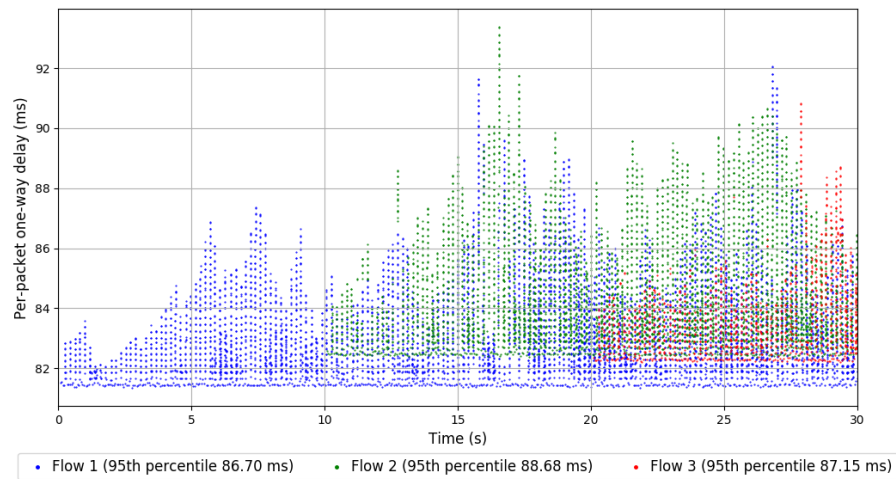
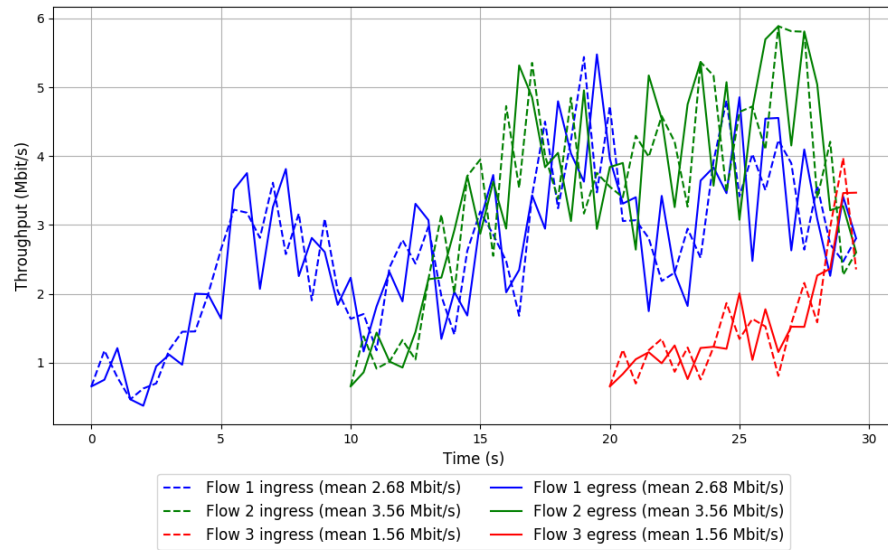


## Run 2: Statistics of Sprout

Start at: 2018-01-10 03:30:19  
End at: 2018-01-10 03:30:49  
Local clock offset: 2.397 ms  
Remote clock offset: -4.529 ms

```
# Below is generated by plot.py at 2018-01-10 06:52:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 87.995 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 86.696 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 88.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 87.150 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link



### Run 3: Statistics of Sprout

Start at: 2018-01-10 03:49:57

End at: 2018-01-10 03:50:27

Local clock offset: 2.644 ms

Remote clock offset: 1.094 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 5.65 Mbit/s

95th percentile per-packet one-way delay: 93.394 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.20 Mbit/s

95th percentile per-packet one-way delay: 94.104 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 92.159 ms

Loss rate: 0.00%

-- Flow 3:

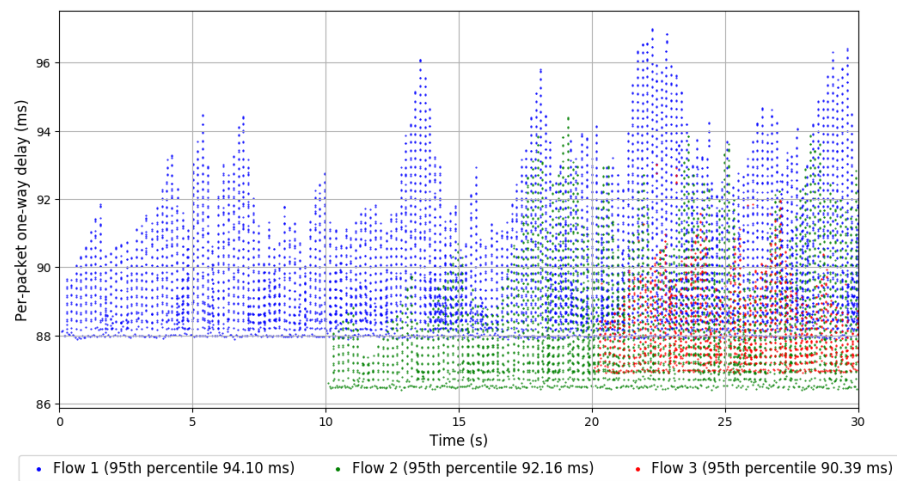
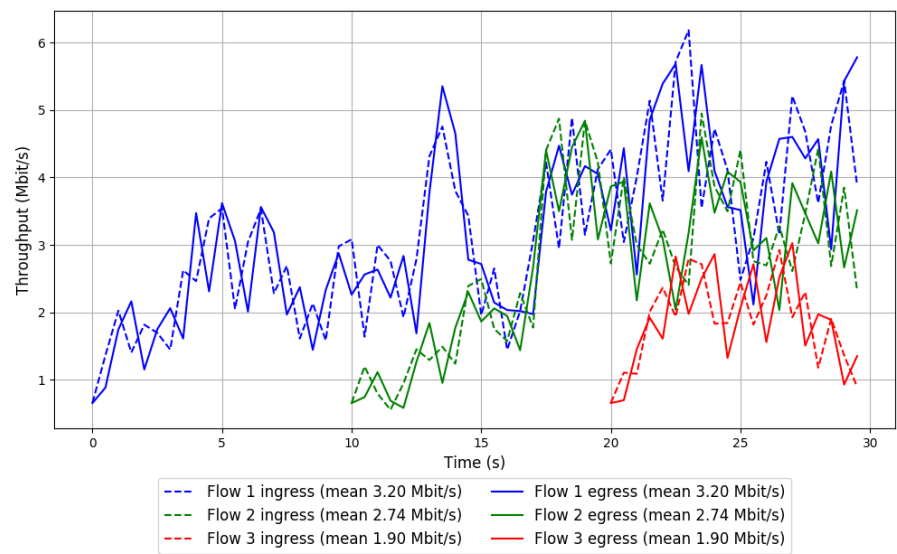
Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 90.387 ms

Loss rate: 0.00%



Run 3: Report of Sprout — Data Link

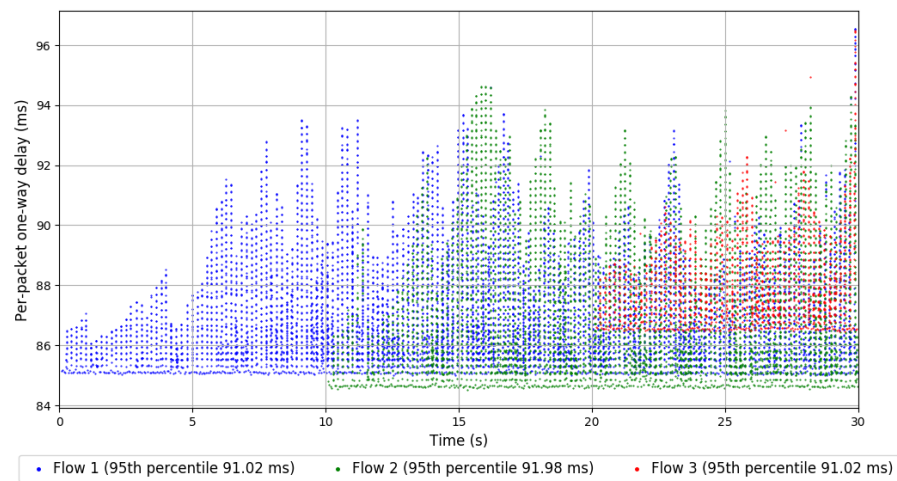
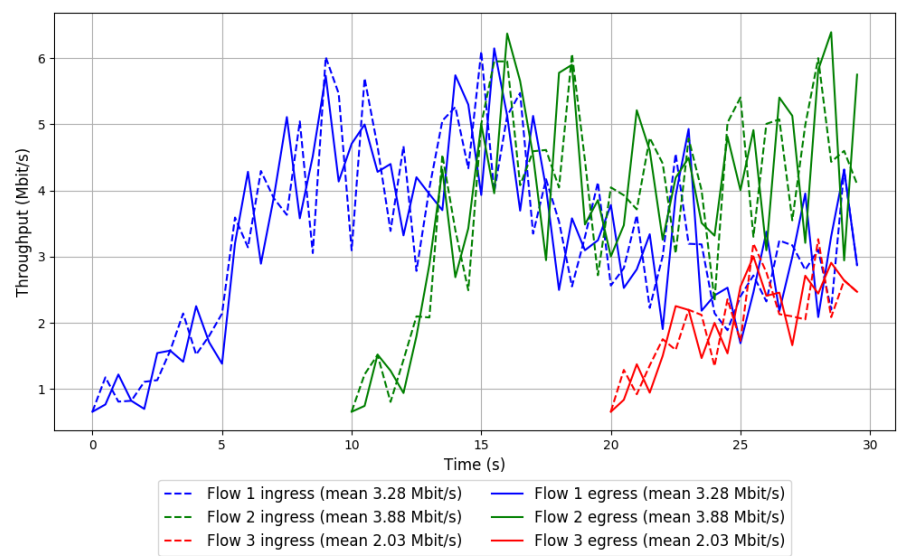


#### Run 4: Statistics of Sprout

Start at: 2018-01-10 04:09:17  
End at: 2018-01-10 04:09:47  
Local clock offset: 2.742 ms  
Remote clock offset: -0.259 ms

```
# Below is generated by plot.py at 2018-01-10 06:52:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 91.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 91.020 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 91.980 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 91.019 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

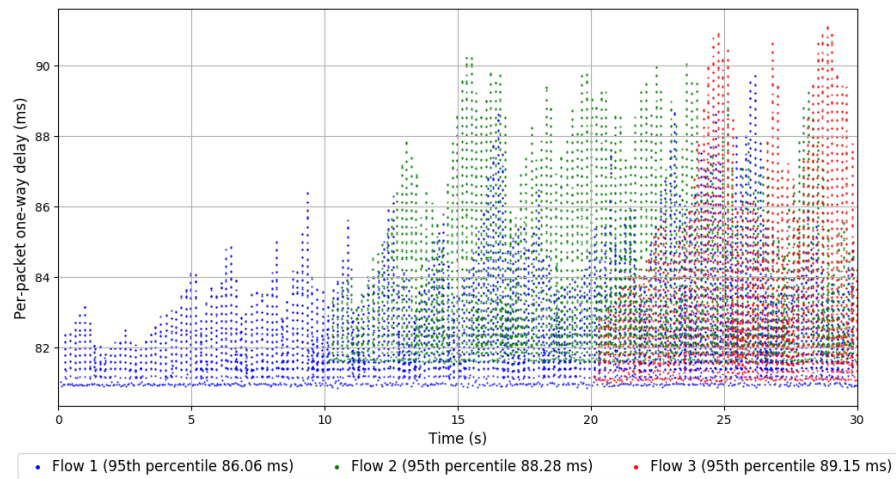
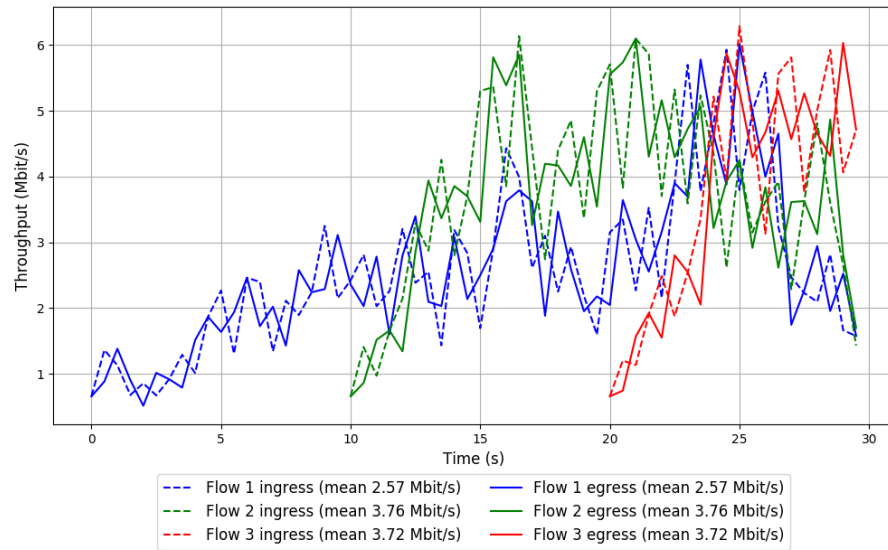


Run 5: Statistics of Sprout

Start at: 2018-01-10 04:29:02  
End at: 2018-01-10 04:29:32  
Local clock offset: 2.423 ms  
Remote clock offset: -4.754 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.30 Mbit/s  
95th percentile per-packet one-way delay: 87.886 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.57 Mbit/s  
95th percentile per-packet one-way delay: 86.057 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.76 Mbit/s  
95th percentile per-packet one-way delay: 88.282 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.72 Mbit/s  
95th percentile per-packet one-way delay: 89.154 ms  
Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-10 04:47:42

End at: 2018-01-10 04:48:12

Local clock offset: 2.59 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 95.173 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 94.971 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 94.801 ms

Loss rate: 0.00%

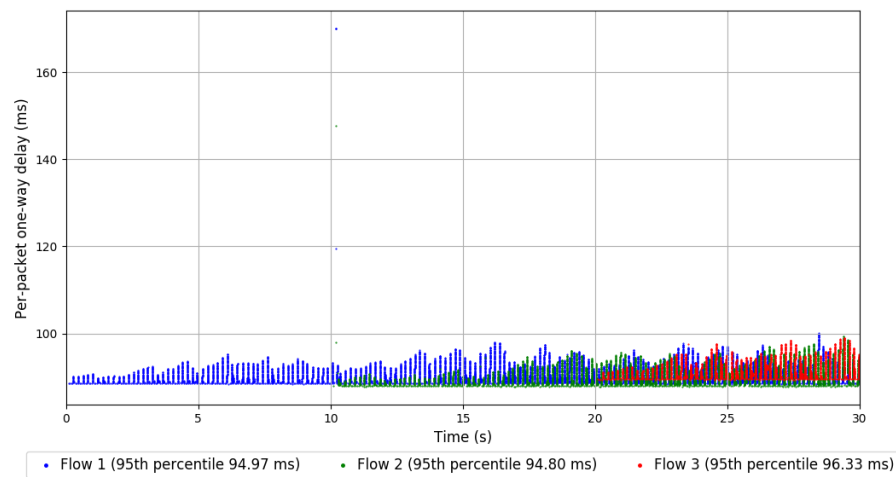
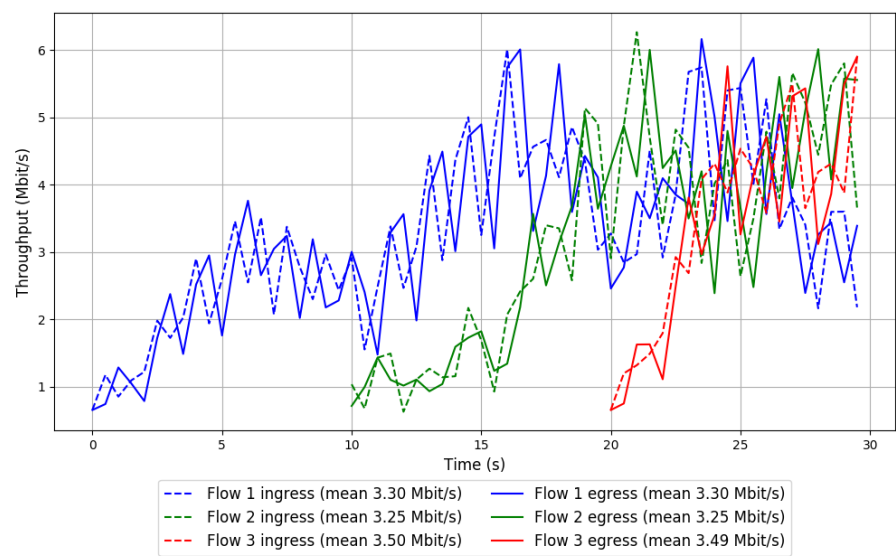
-- Flow 3:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 96.330 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-10 05:06:56

End at: 2018-01-10 05:07:26

Local clock offset: 2.844 ms

Remote clock offset: 1.718 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 94.484 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.29 Mbit/s

95th percentile per-packet one-way delay: 94.672 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 94.219 ms

Loss rate: 0.00%

-- Flow 3:

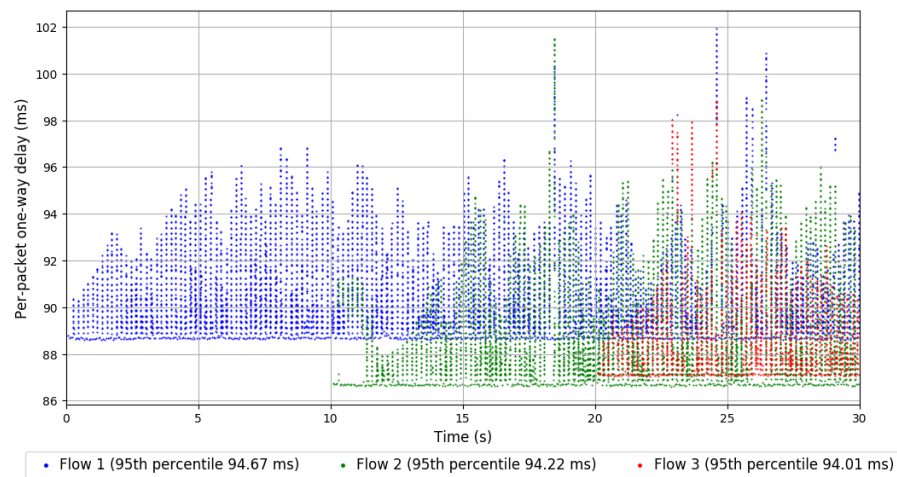
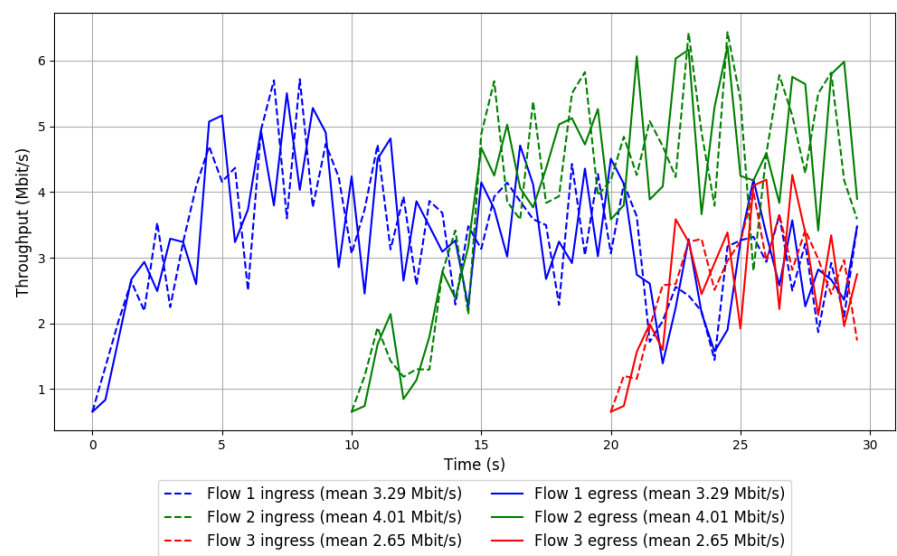
Average throughput: 2.65 Mbit/s

95th percentile per-packet one-way delay: 94.009 ms

Loss rate: 0.00%



Run 7: Report of Sprout — Data Link

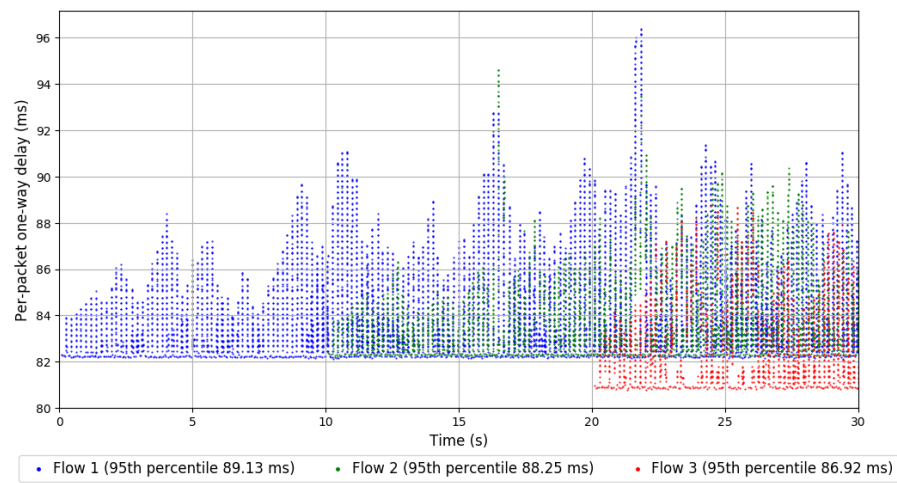
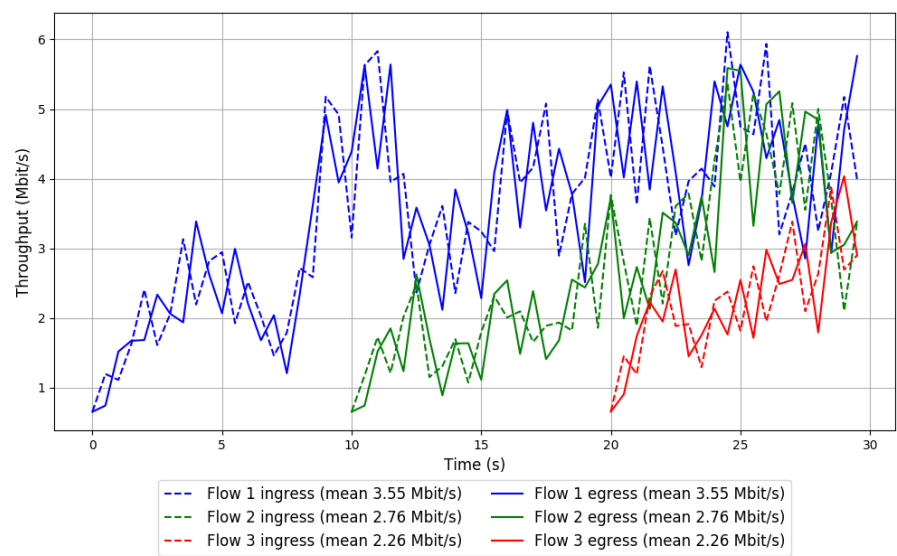


Run 8: Statistics of Sprout

Start at: 2018-01-10 05:26:24  
End at: 2018-01-10 05:26:54  
Local clock offset: 3.506 ms  
Remote clock offset: -4.069 ms

# Below is generated by plot.py at 2018-01-10 06:52:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.13 Mbit/s  
95th percentile per-packet one-way delay: 88.658 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.55 Mbit/s  
95th percentile per-packet one-way delay: 89.128 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 2.76 Mbit/s  
95th percentile per-packet one-way delay: 88.245 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 2.26 Mbit/s  
95th percentile per-packet one-way delay: 86.921 ms  
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

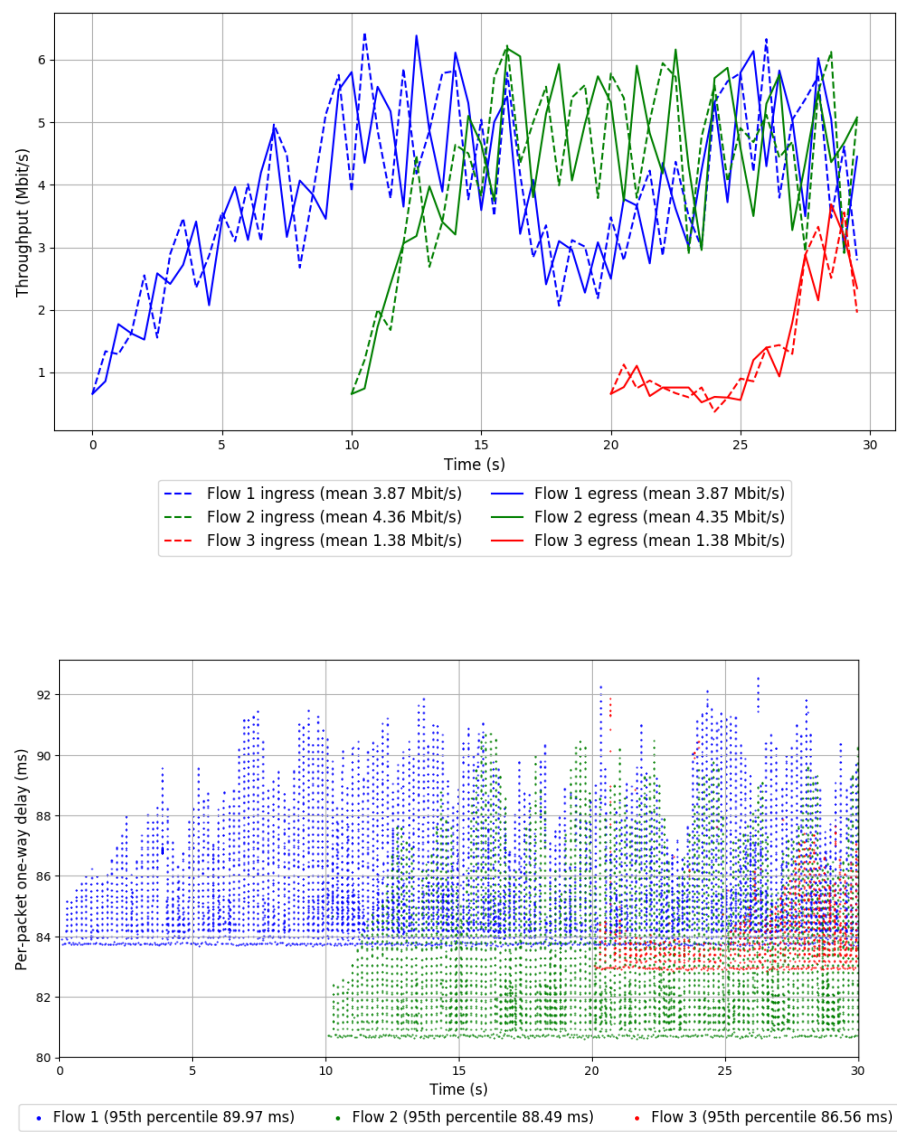


Run 9: Statistics of Sprout

Start at: 2018-01-10 05:45:49  
End at: 2018-01-10 05:46:19  
Local clock offset: 3.968 ms  
Remote clock offset: -3.356 ms

```
# Below is generated by plot.py at 2018-01-10 06:52:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 89.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 89.966 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 88.488 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 86.565 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-10 06:05:17

End at: 2018-01-10 06:05:47

Local clock offset: 4.193 ms

Remote clock offset: 1.444 ms

# Below is generated by plot.py at 2018-01-10 06:52:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 93.331 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 93.869 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.41 Mbit/s

95th percentile per-packet one-way delay: 93.225 ms

Loss rate: 0.00%

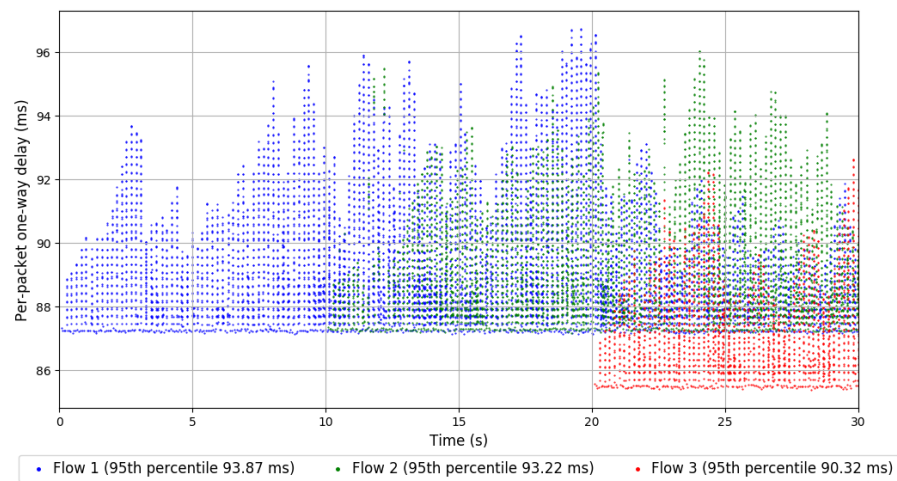
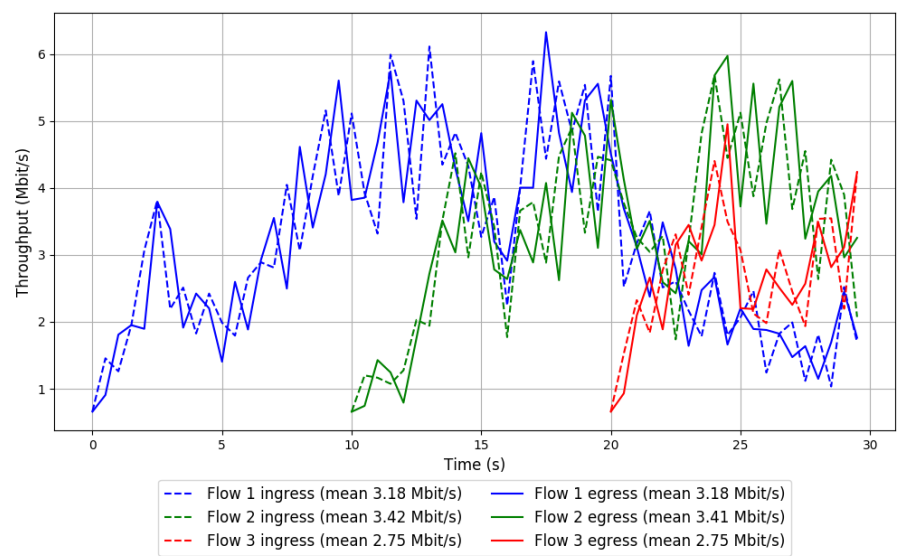
-- Flow 3:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 90.321 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



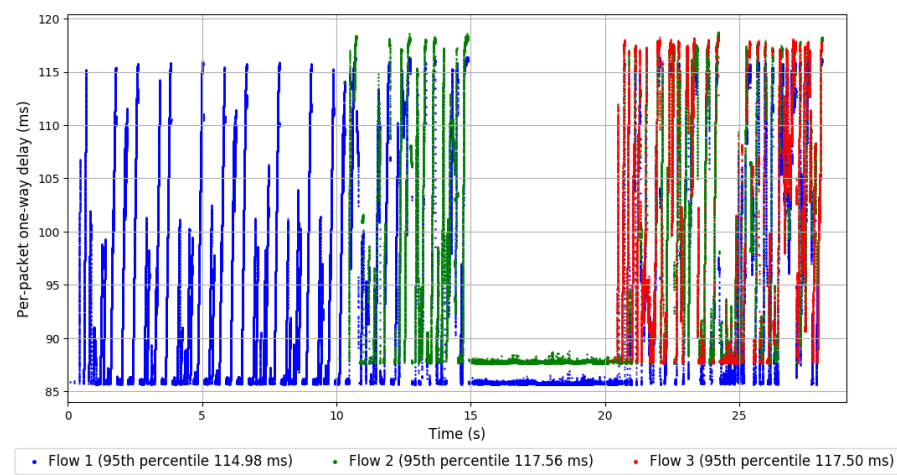
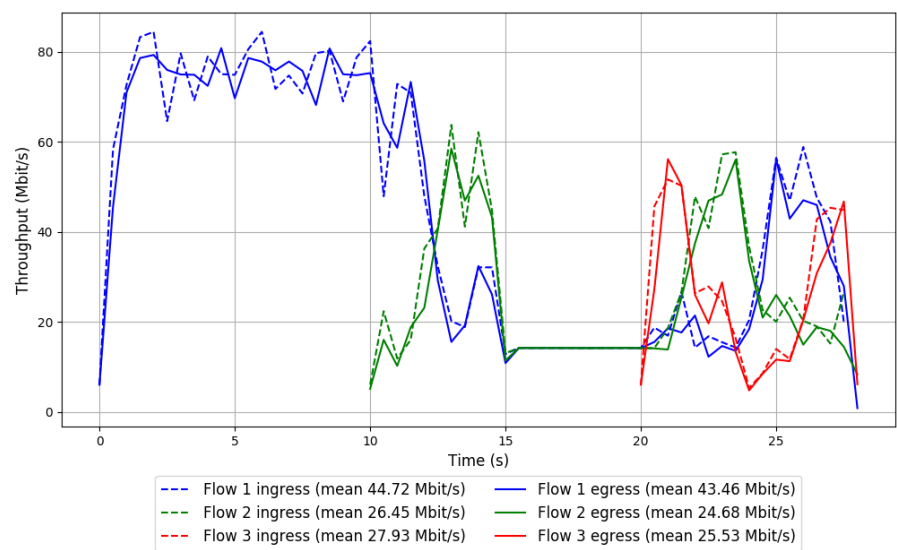
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-10 03:08:13
End at: 2018-01-10 03:08:43
Local clock offset: 1.885 ms
Remote clock offset: 0.65 ms

# Below is generated by plot.py at 2018-01-10 06:55:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.56 Mbit/s
95th percentile per-packet one-way delay: 115.941 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 114.979 ms
Loss rate: 2.71%
-- Flow 2:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 117.559 ms
Loss rate: 6.54%
-- Flow 3:
Average throughput: 25.53 Mbit/s
95th percentile per-packet one-way delay: 117.497 ms
Loss rate: 8.26%
```



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-10 03:27:41

End at: 2018-01-10 03:28:11

Local clock offset: 2.309 ms

Remote clock offset: 0.577 ms

# Below is generated by plot.py at 2018-01-10 06:55:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 69.68 Mbit/s

95th percentile per-packet one-way delay: 116.456 ms

Loss rate: 5.31%

-- Flow 1:

Average throughput: 47.51 Mbit/s

95th percentile per-packet one-way delay: 116.245 ms

Loss rate: 3.92%

-- Flow 2:

Average throughput: 23.58 Mbit/s

95th percentile per-packet one-way delay: 117.760 ms

Loss rate: 7.57%

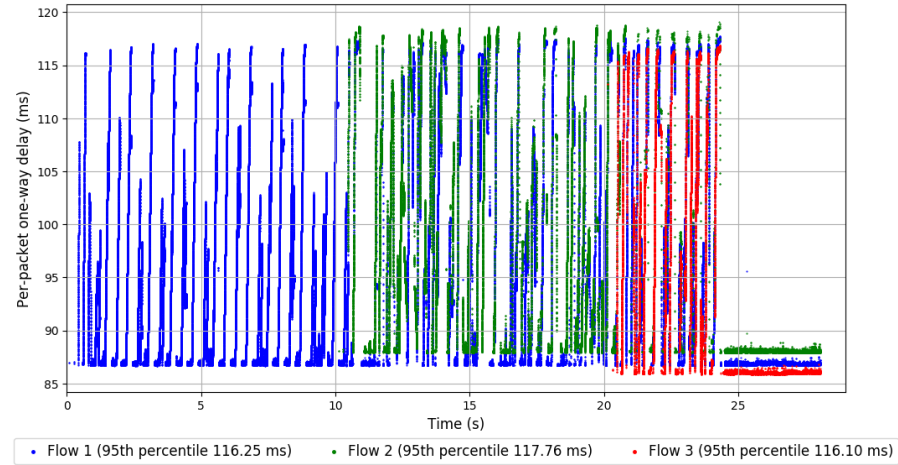
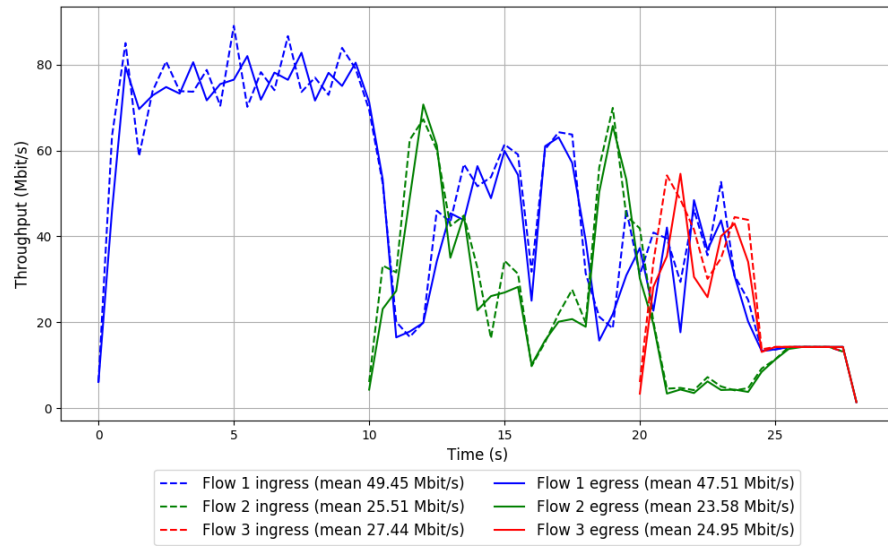
-- Flow 3:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 116.101 ms

Loss rate: 9.38%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-10 03:47:19

End at: 2018-01-10 03:47:49

Local clock offset: 2.595 ms

Remote clock offset: -4.09 ms

# Below is generated by plot.py at 2018-01-10 06:55:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.91 Mbit/s

95th percentile per-packet one-way delay: 112.574 ms

Loss rate: 5.66%

-- Flow 1:

Average throughput: 44.56 Mbit/s

95th percentile per-packet one-way delay: 112.265 ms

Loss rate: 4.50%

-- Flow 2:

Average throughput: 41.67 Mbit/s

95th percentile per-packet one-way delay: 113.023 ms

Loss rate: 6.87%

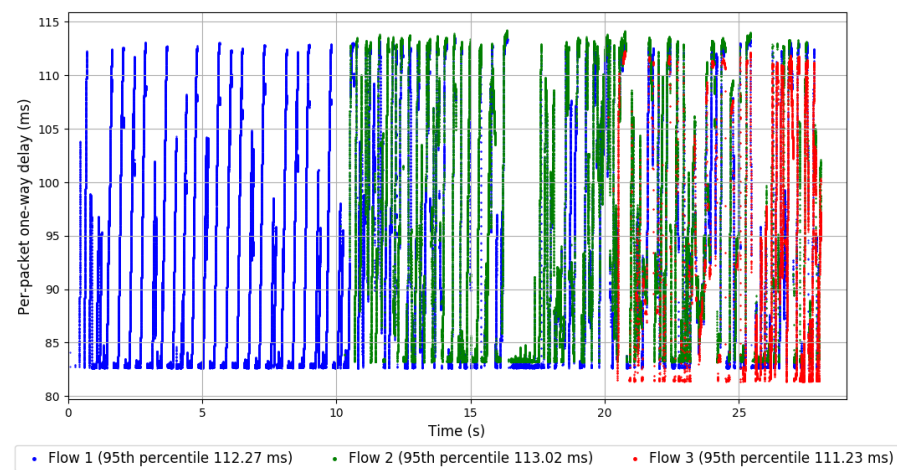
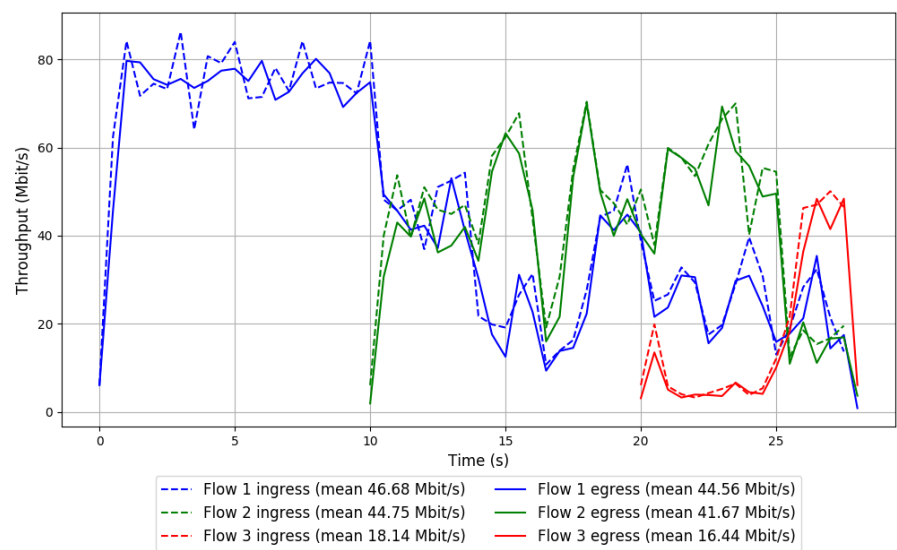
-- Flow 3:

Average throughput: 16.44 Mbit/s

95th percentile per-packet one-way delay: 111.235 ms

Loss rate: 9.47%

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

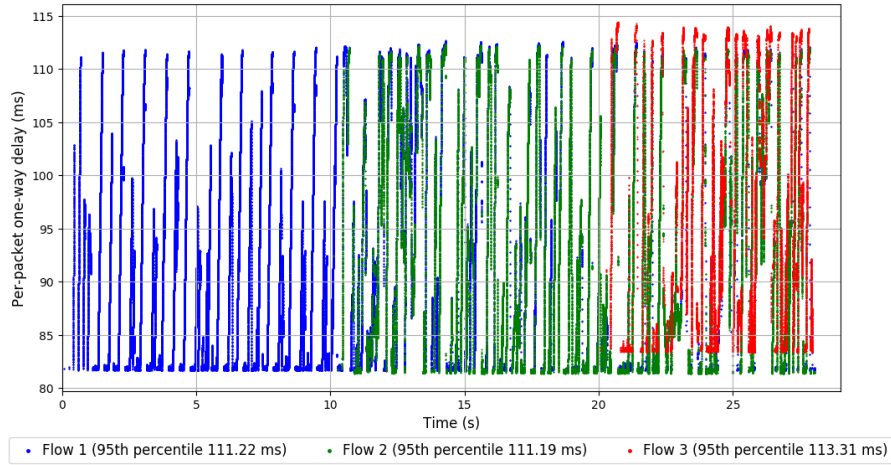
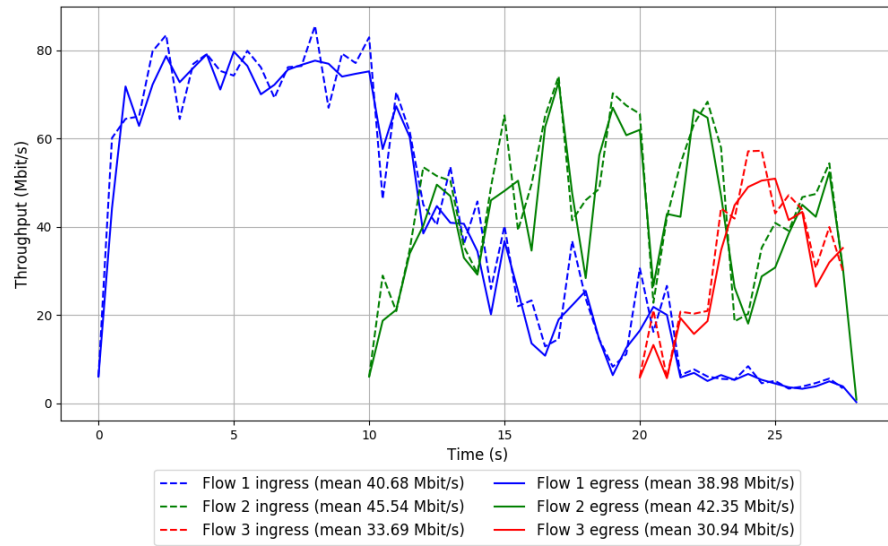


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-10 04:06:40  
End at: 2018-01-10 04:07:10  
Local clock offset: 2.792 ms  
Remote clock offset: -3.605 ms

# Below is generated by plot.py at 2018-01-10 06:55:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.86 Mbit/s  
95th percentile per-packet one-way delay: 111.482 ms  
Loss rate: 5.70%  
-- Flow 1:  
Average throughput: 38.98 Mbit/s  
95th percentile per-packet one-way delay: 111.215 ms  
Loss rate: 4.16%  
-- Flow 2:  
Average throughput: 42.35 Mbit/s  
95th percentile per-packet one-way delay: 111.195 ms  
Loss rate: 7.05%  
-- Flow 3:  
Average throughput: 30.94 Mbit/s  
95th percentile per-packet one-way delay: 113.314 ms  
Loss rate: 8.15%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-10 04:26:24

End at: 2018-01-10 04:26:54

Local clock offset: 2.47 ms

Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-01-10 06:55:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.80 Mbit/s

95th percentile per-packet one-way delay: 116.019 ms

Loss rate: 5.59%

-- Flow 1:

Average throughput: 47.24 Mbit/s

95th percentile per-packet one-way delay: 114.780 ms

Loss rate: 4.02%

-- Flow 2:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 117.133 ms

Loss rate: 7.56%

-- Flow 3:

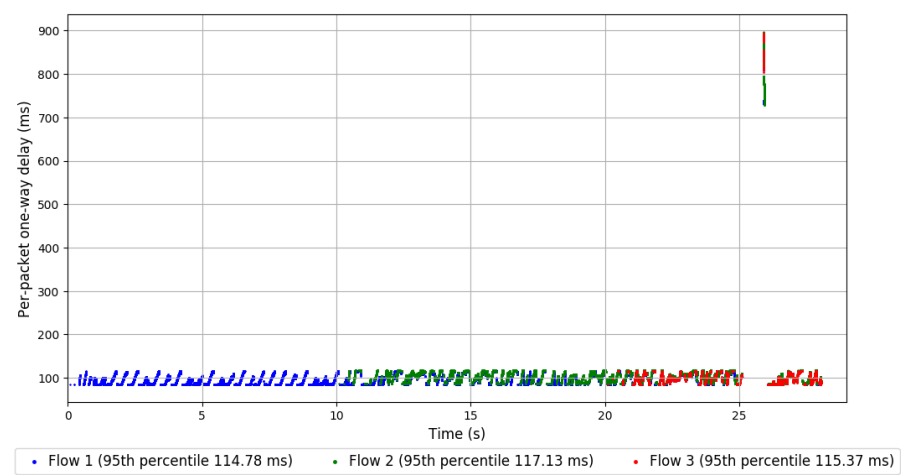
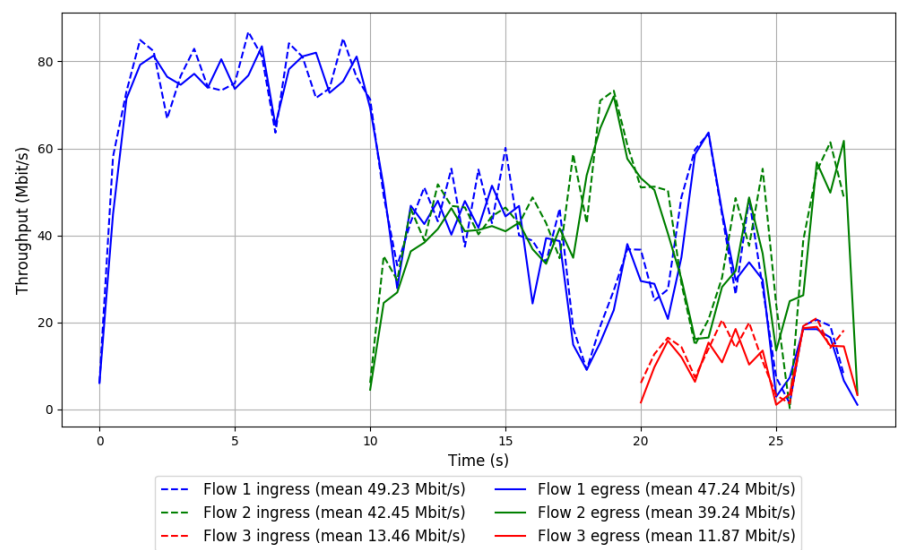
Average throughput: 11.87 Mbit/s

95th percentile per-packet one-way delay: 115.370 ms

Loss rate: 11.78%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-10 04:45:33

End at: 2018-01-10 04:46:03

Local clock offset: 2.589 ms

# Below is generated by plot.py at 2018-01-10 06:55:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 67.87 Mbit/s

95th percentile per-packet one-way delay: 119.383 ms

Loss rate: 5.45%

-- Flow 1:

Average throughput: 43.54 Mbit/s

95th percentile per-packet one-way delay: 119.229 ms

Loss rate: 3.81%

-- Flow 2:

Average throughput: 34.07 Mbit/s

95th percentile per-packet one-way delay: 119.699 ms

Loss rate: 8.14%

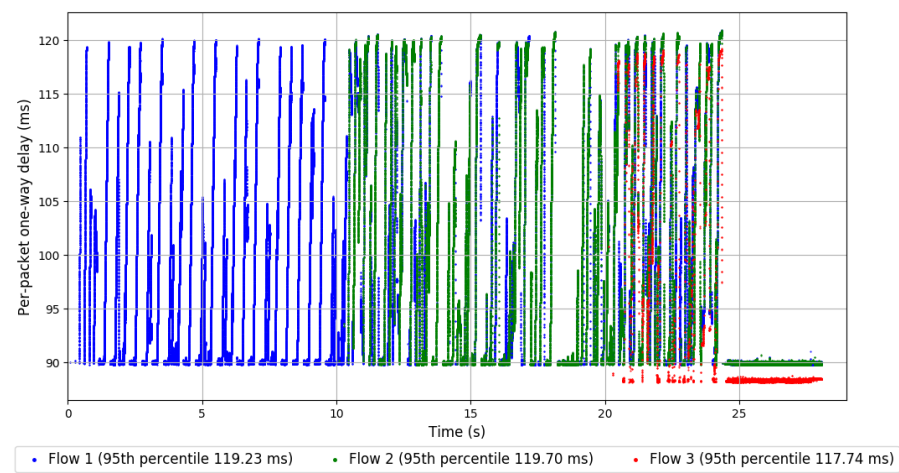
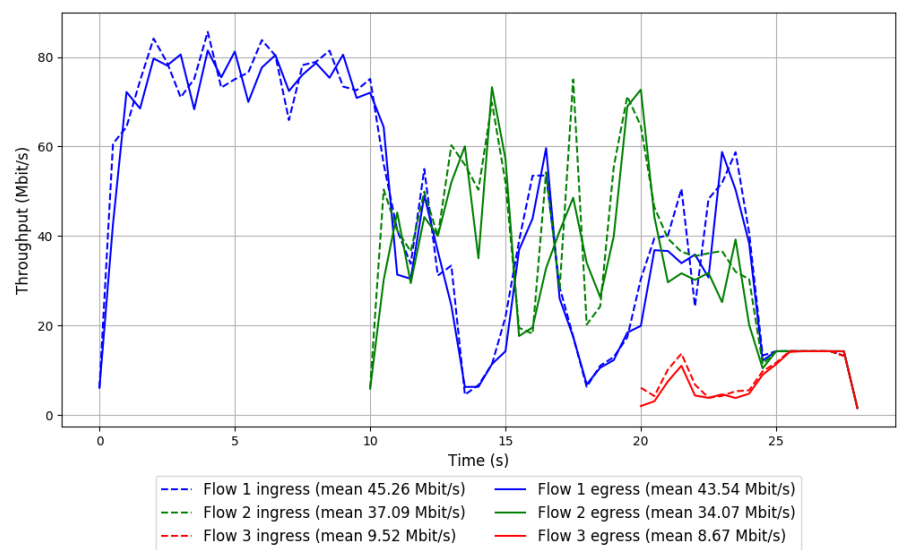
-- Flow 3:

Average throughput: 8.67 Mbit/s

95th percentile per-packet one-way delay: 117.737 ms

Loss rate: 9.10%

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

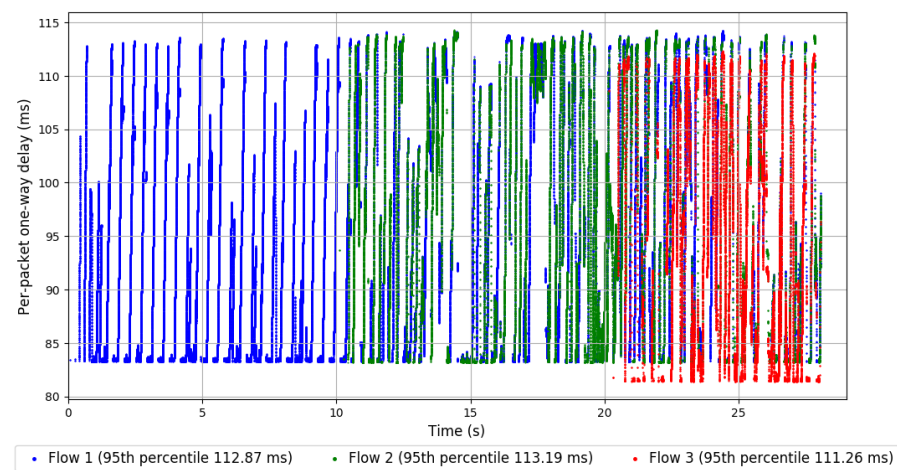
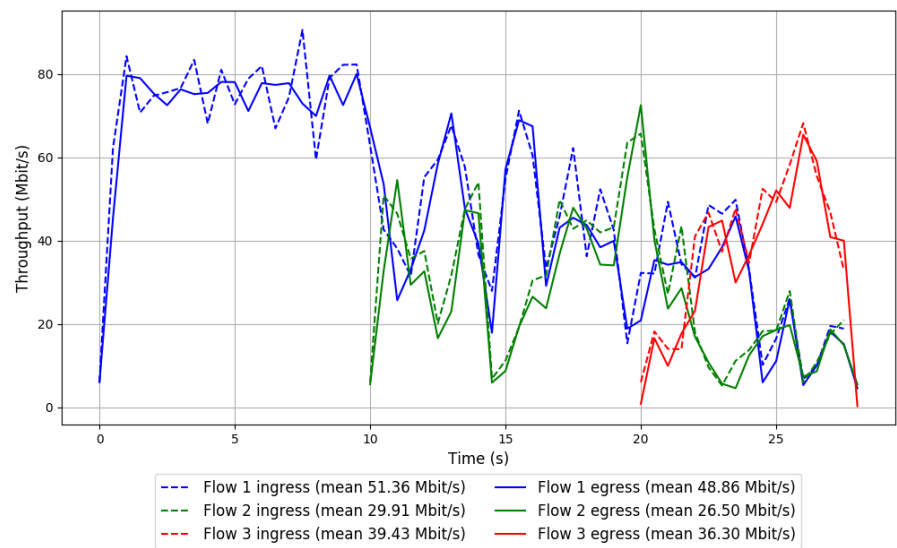


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-10 05:04:18  
End at: 2018-01-10 05:04:48  
Local clock offset: 2.755 ms  
Remote clock offset: -3.926 ms

# Below is generated by plot.py at 2018-01-10 06:55:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.11 Mbit/s  
95th percentile per-packet one-way delay: 112.872 ms  
Loss rate: 6.84%  
-- Flow 1:  
Average throughput: 48.86 Mbit/s  
95th percentile per-packet one-way delay: 112.867 ms  
Loss rate: 4.85%  
-- Flow 2:  
Average throughput: 26.50 Mbit/s  
95th percentile per-packet one-way delay: 113.188 ms  
Loss rate: 11.41%  
-- Flow 3:  
Average throughput: 36.30 Mbit/s  
95th percentile per-packet one-way delay: 111.264 ms  
Loss rate: 8.13%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-10 05:23:45

End at: 2018-01-10 05:24:15

Local clock offset: 3.409 ms

Remote clock offset: 1.466 ms

# Below is generated by plot.py at 2018-01-10 06:56:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 116.098 ms

Loss rate: 6.80%

-- Flow 1:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 115.851 ms

Loss rate: 4.79%

-- Flow 2:

Average throughput: 32.31 Mbit/s

95th percentile per-packet one-way delay: 116.385 ms

Loss rate: 10.22%

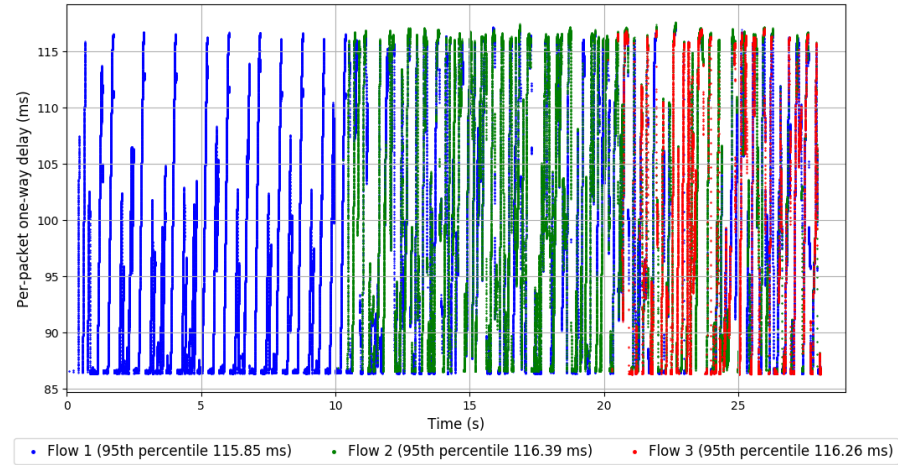
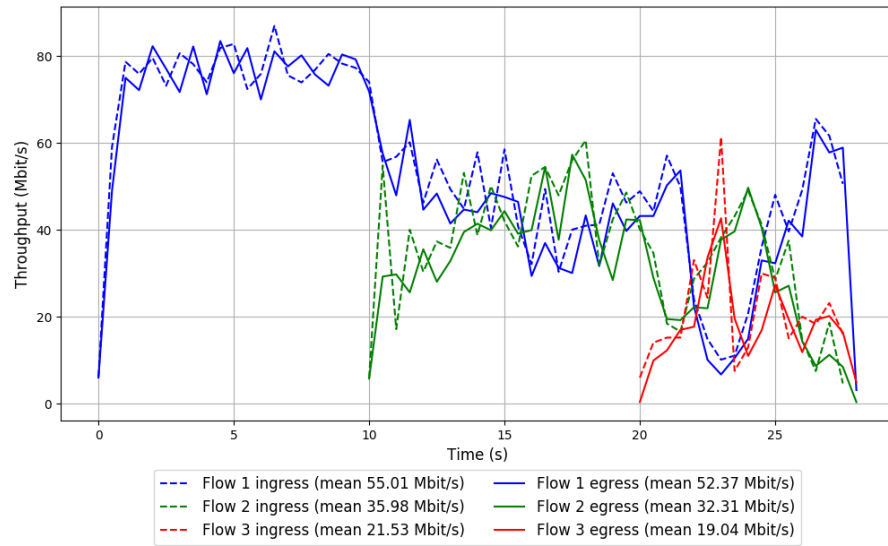
-- Flow 3:

Average throughput: 19.04 Mbit/s

95th percentile per-packet one-way delay: 116.264 ms

Loss rate: 11.88%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-10 05:43:12

End at: 2018-01-10 05:43:42

Local clock offset: 3.858 ms

Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2018-01-10 06:58:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.45 Mbit/s

95th percentile per-packet one-way delay: 114.671 ms

Loss rate: 5.09%

-- Flow 1:

Average throughput: 42.35 Mbit/s

95th percentile per-packet one-way delay: 114.361 ms

Loss rate: 3.25%

-- Flow 2:

Average throughput: 18.07 Mbit/s

95th percentile per-packet one-way delay: 117.144 ms

Loss rate: 8.47%

-- Flow 3:

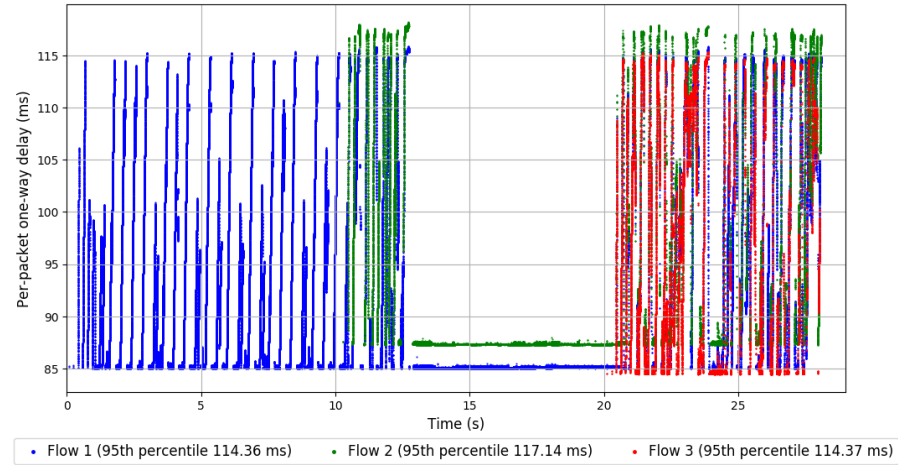
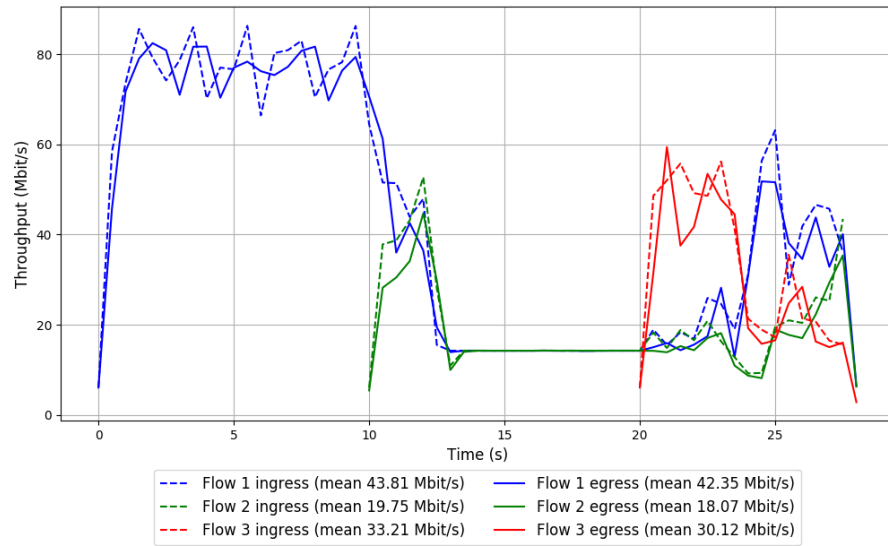
Average throughput: 30.12 Mbit/s

95th percentile per-packet one-way delay: 114.367 ms

Loss rate: 9.14%



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

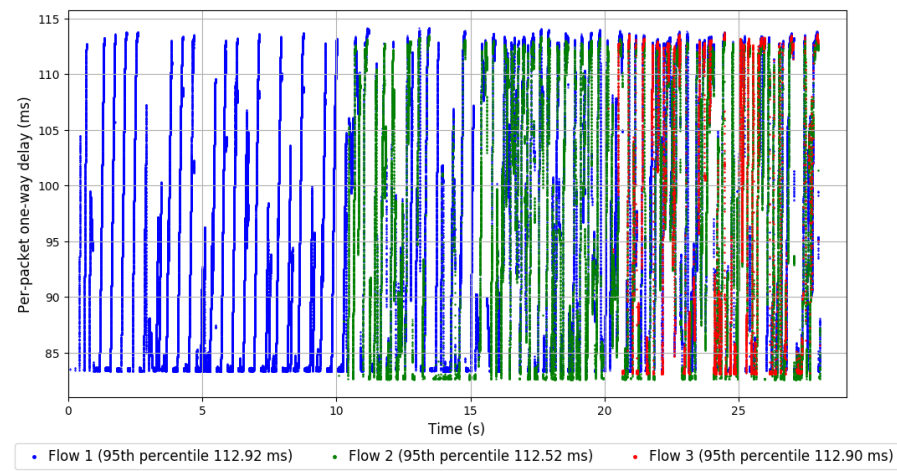
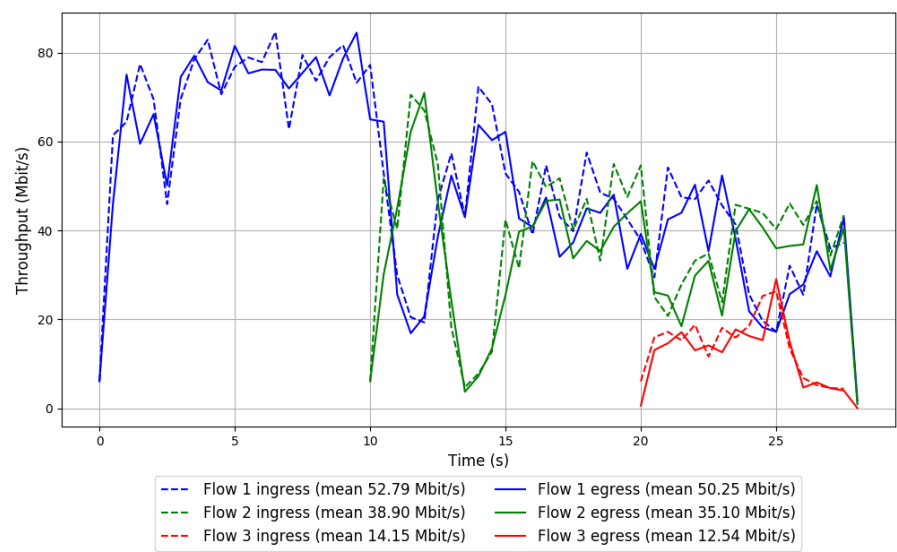


Run 10: Statistics of TaoVA-100x

Start at: 2018-01-10 06:02:39  
End at: 2018-01-10 06:03:09  
Local clock offset: 4.092 ms  
Remote clock offset: -3.121 ms

# Below is generated by plot.py at 2018-01-10 06:59:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.30 Mbit/s  
95th percentile per-packet one-way delay: 112.795 ms  
Loss rate: 6.66%  
-- Flow 1:  
Average throughput: 50.25 Mbit/s  
95th percentile per-packet one-way delay: 112.924 ms  
Loss rate: 4.81%  
-- Flow 2:  
Average throughput: 35.10 Mbit/s  
95th percentile per-packet one-way delay: 112.519 ms  
Loss rate: 9.77%  
-- Flow 3:  
Average throughput: 12.54 Mbit/s  
95th percentile per-packet one-way delay: 112.899 ms  
Loss rate: 11.61%

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

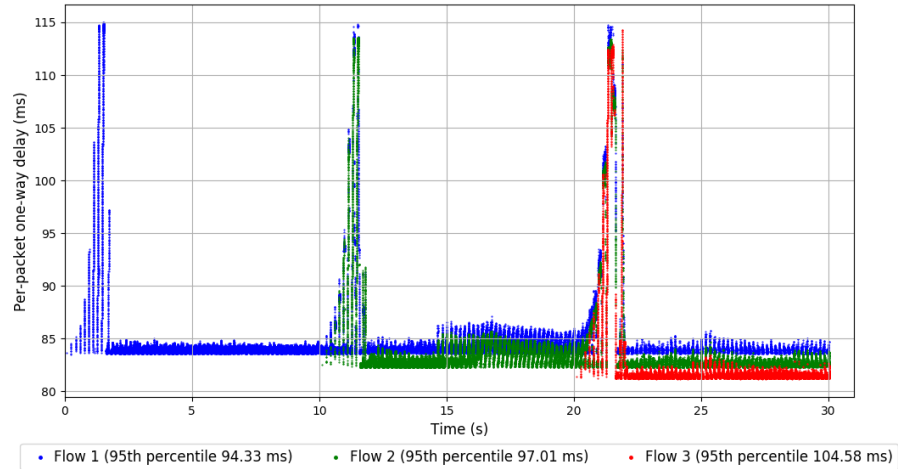
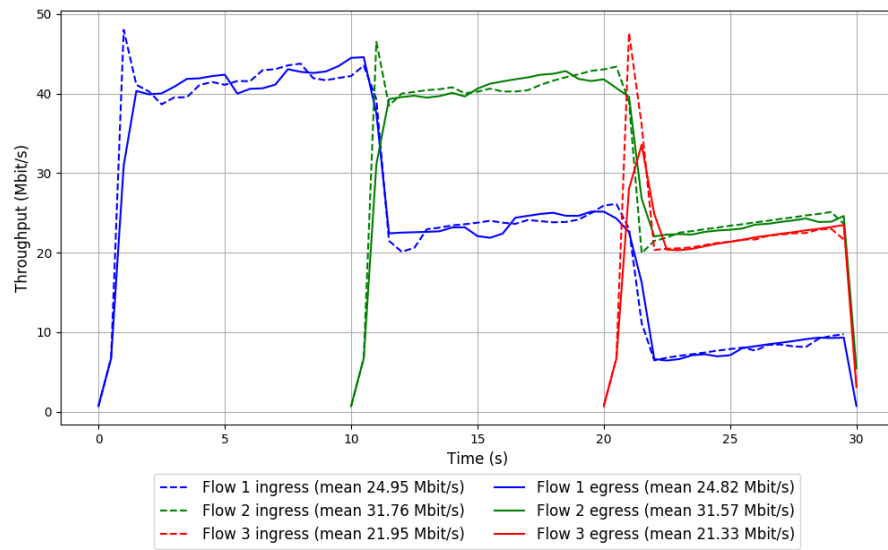


Run 1: Statistics of TCP Vegas

Start at: 2018-01-10 03:09:33  
End at: 2018-01-10 03:10:03  
Local clock offset: 2.014 ms  
Remote clock offset: -4.151 ms

# Below is generated by plot.py at 2018-01-10 06:59:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.91 Mbit/s  
95th percentile per-packet one-way delay: 96.979 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 24.82 Mbit/s  
95th percentile per-packet one-way delay: 94.327 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 31.57 Mbit/s  
95th percentile per-packet one-way delay: 97.014 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 21.33 Mbit/s  
95th percentile per-packet one-way delay: 104.577 ms  
Loss rate: 2.84%

# Run 1: Report of TCP Vegas — Data Link

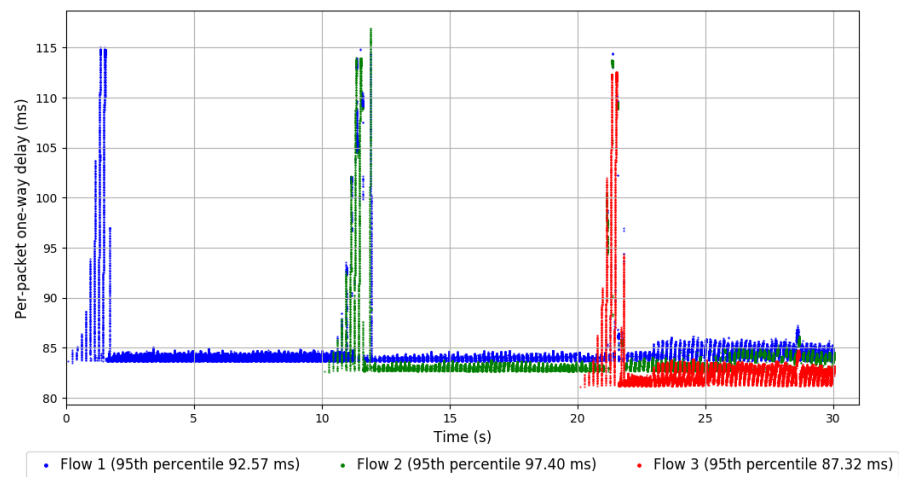
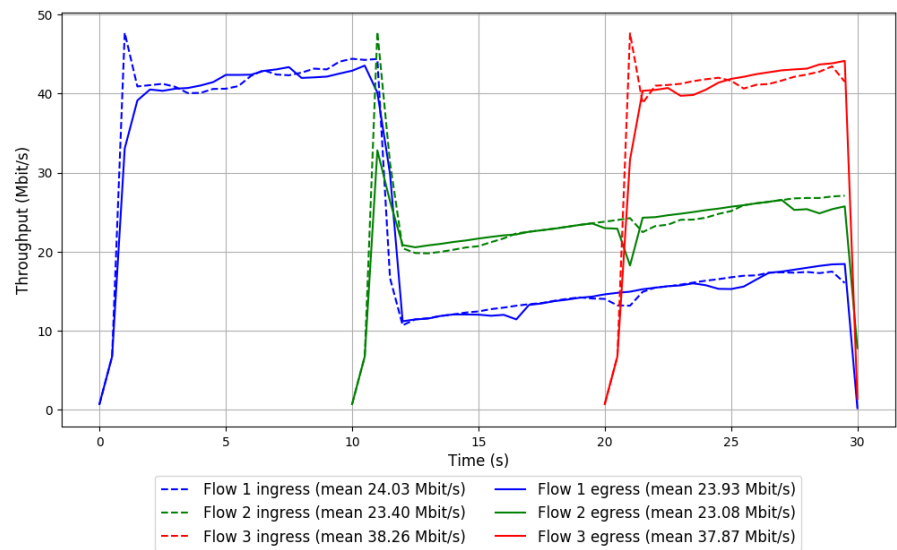


Run 2: Statistics of TCP Vegas

Start at: 2018-01-10 03:29:02  
End at: 2018-01-10 03:29:32  
Local clock offset: 2.311 ms  
Remote clock offset: -4.242 ms

# Below is generated by plot.py at 2018-01-10 06:59:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.84 Mbit/s  
95th percentile per-packet one-way delay: 92.942 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 23.93 Mbit/s  
95th percentile per-packet one-way delay: 92.574 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 23.08 Mbit/s  
95th percentile per-packet one-way delay: 97.396 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 37.87 Mbit/s  
95th percentile per-packet one-way delay: 87.324 ms  
Loss rate: 1.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-10 03:48:40

End at: 2018-01-10 03:49:10

Local clock offset: 2.642 ms

Remote clock offset: 0.75 ms

# Below is generated by plot.py at 2018-01-10 06:59:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.86 Mbit/s

95th percentile per-packet one-way delay: 96.025 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 24.95 Mbit/s

95th percentile per-packet one-way delay: 96.028 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 94.354 ms

Loss rate: 0.60%

-- Flow 3:

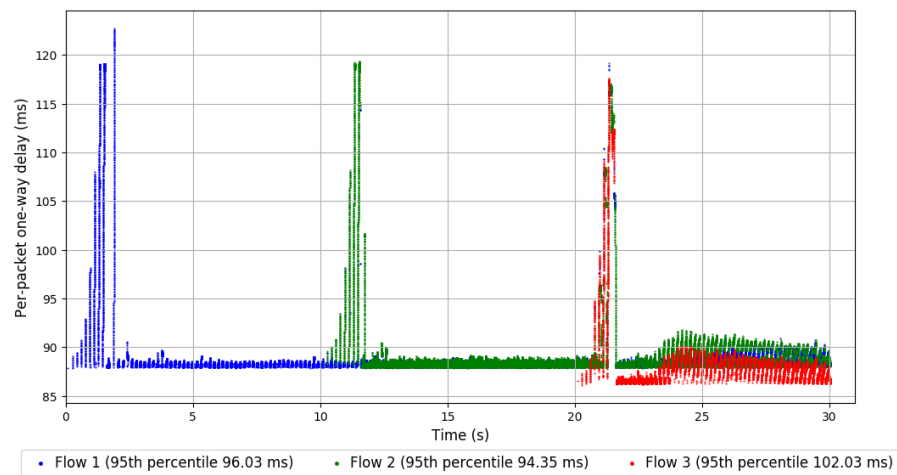
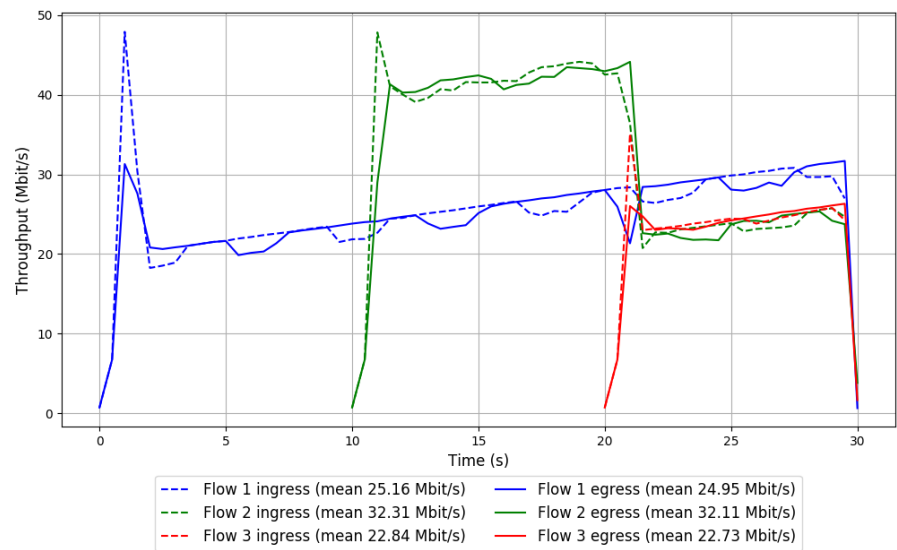
Average throughput: 22.73 Mbit/s

95th percentile per-packet one-way delay: 102.028 ms

Loss rate: 0.48%



Run 3: Report of TCP Vegas — Data Link

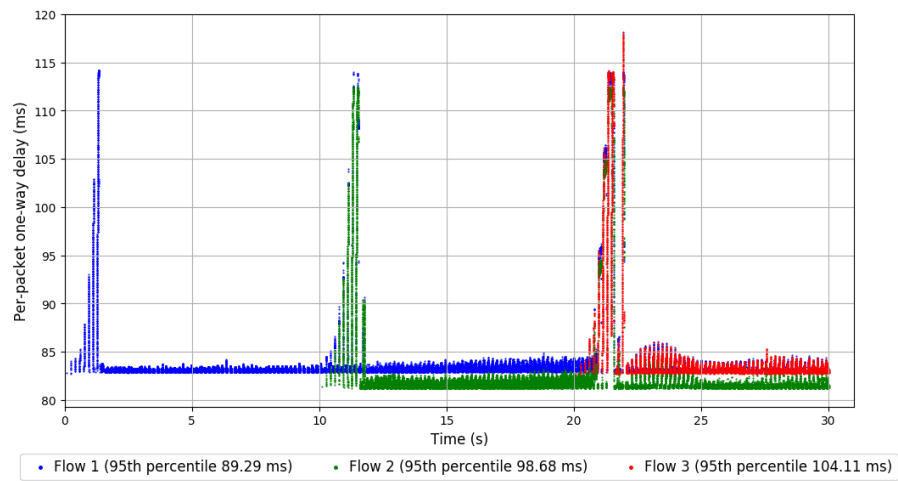
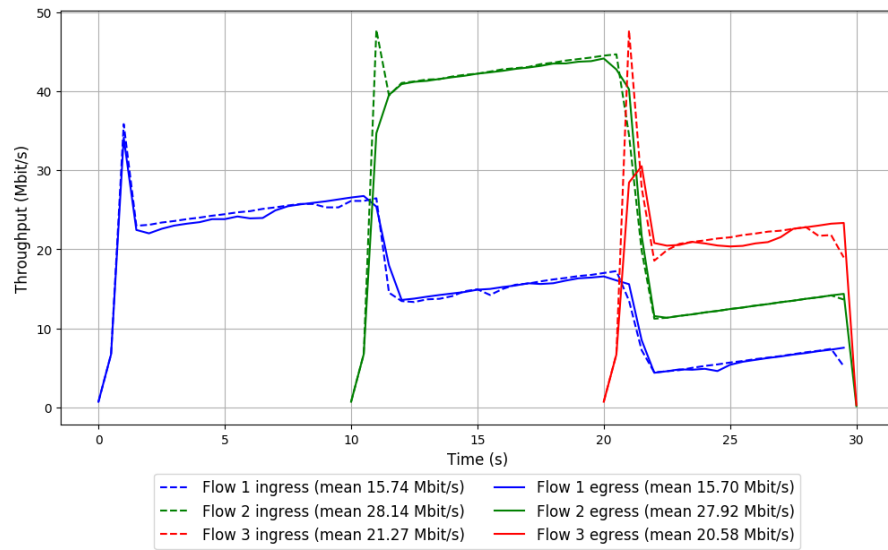


Run 4: Statistics of TCP Vegas

Start at: 2018-01-10 04:08:01  
End at: 2018-01-10 04:08:31  
Local clock offset: 2.701 ms  
Remote clock offset: -3.955 ms

# Below is generated by plot.py at 2018-01-10 06:59:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 41.09 Mbit/s  
95th percentile per-packet one-way delay: 95.744 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 15.70 Mbit/s  
95th percentile per-packet one-way delay: 89.288 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 27.92 Mbit/s  
95th percentile per-packet one-way delay: 98.683 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 20.58 Mbit/s  
95th percentile per-packet one-way delay: 104.105 ms  
Loss rate: 3.25%

# Run 4: Report of TCP Vegas — Data Link

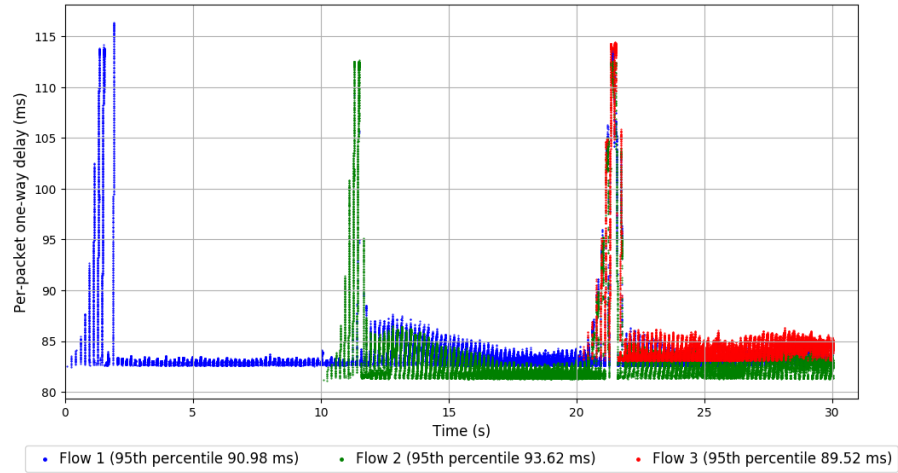
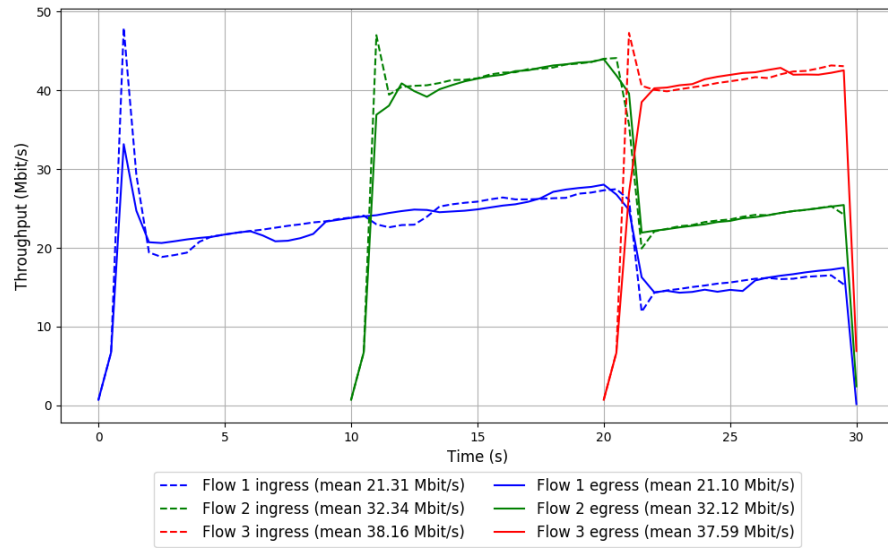


Run 5: Statistics of TCP Vegas

Start at: 2018-01-10 04:27:45  
End at: 2018-01-10 04:28:15  
Local clock offset: 2.483 ms  
Remote clock offset: -3.876 ms

# Below is generated by plot.py at 2018-01-10 06:59:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.95 Mbit/s  
95th percentile per-packet one-way delay: 92.398 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 21.10 Mbit/s  
95th percentile per-packet one-way delay: 90.978 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 32.12 Mbit/s  
95th percentile per-packet one-way delay: 93.622 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 37.59 Mbit/s  
95th percentile per-packet one-way delay: 89.521 ms  
Loss rate: 1.50%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-10 04:46:39

End at: 2018-01-10 04:47:09

Local clock offset: 2.597 ms

# Below is generated by plot.py at 2018-01-10 06:59:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 97.832 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 27.39 Mbit/s

95th percentile per-packet one-way delay: 96.669 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 99.855 ms

Loss rate: 0.60%

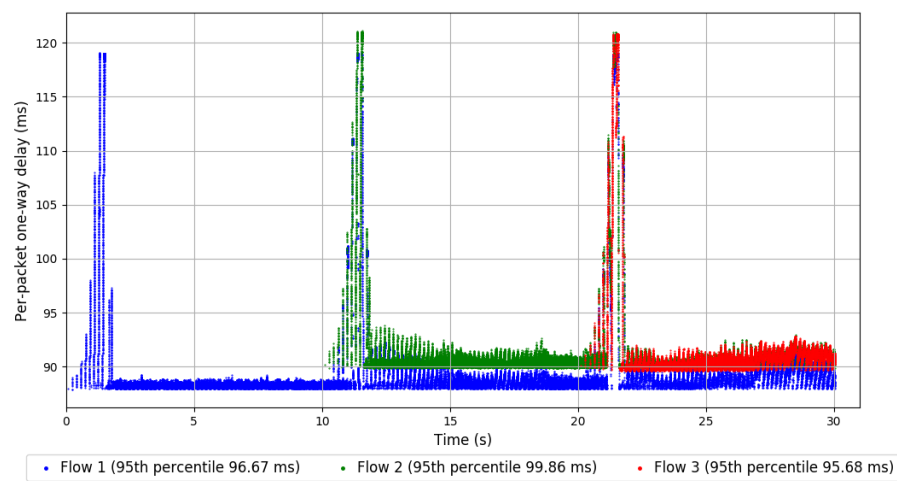
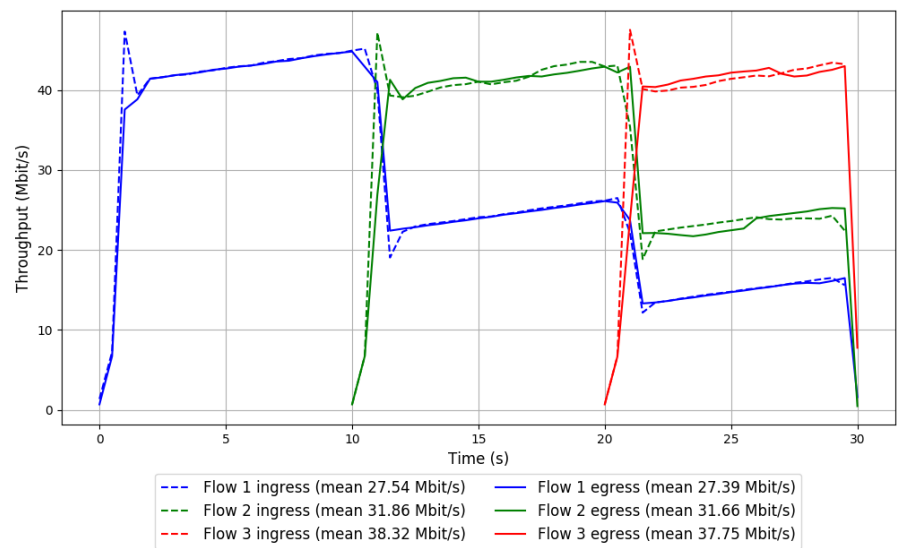
-- Flow 3:

Average throughput: 37.75 Mbit/s

95th percentile per-packet one-way delay: 95.677 ms

Loss rate: 1.48%

Run 6: Report of TCP Vegas — Data Link



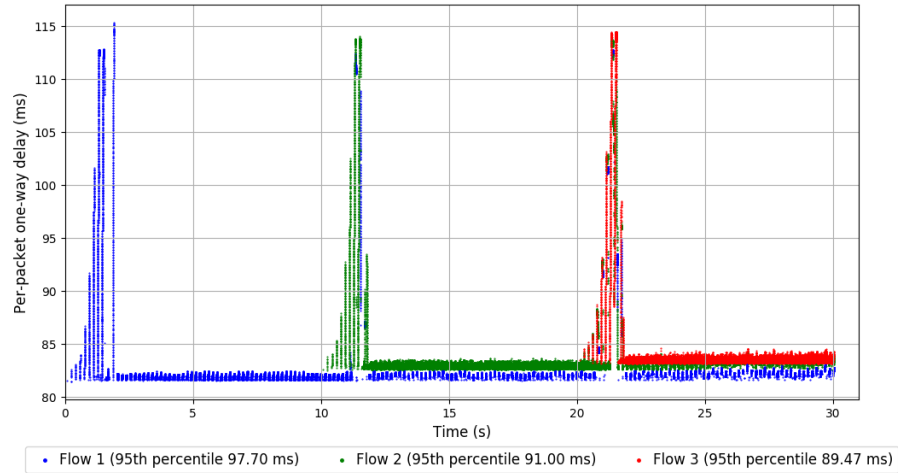
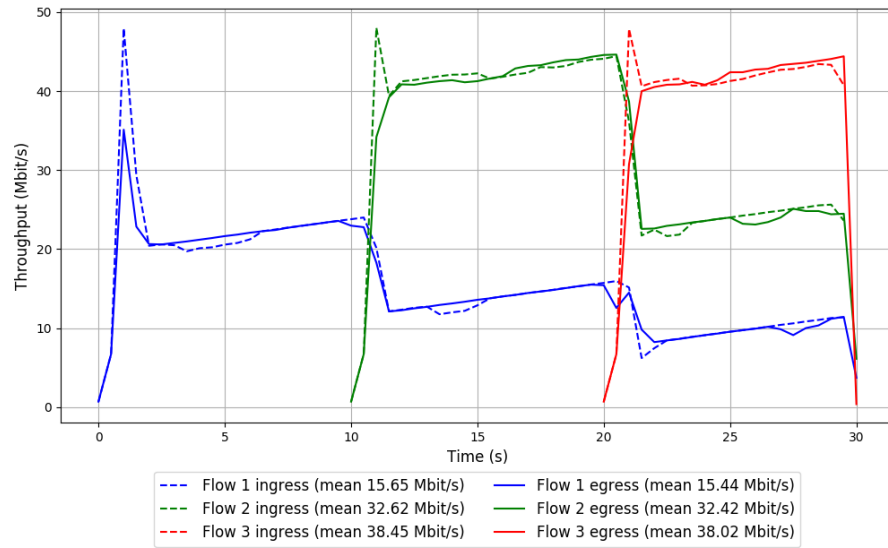
Run 7: Statistics of TCP Vegas

Start at: 2018-01-10 05:05:39  
End at: 2018-01-10 05:06:09  
Local clock offset: 2.811 ms  
Remote clock offset: -3.903 ms

# Below is generated by plot.py at 2018-01-10 06:59:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.66 Mbit/s  
95th percentile per-packet one-way delay: 92.538 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 15.44 Mbit/s  
95th percentile per-packet one-way delay: 97.699 ms  
Loss rate: 1.32%  
-- Flow 2:  
Average throughput: 32.42 Mbit/s  
95th percentile per-packet one-way delay: 91.000 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 38.02 Mbit/s  
95th percentile per-packet one-way delay: 89.470 ms  
Loss rate: 1.11%



# Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-10 05:25:07

End at: 2018-01-10 05:25:37

Local clock offset: 3.388 ms

Remote clock offset: 1.212 ms

# Below is generated by plot.py at 2018-01-10 06:59:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.19 Mbit/s

95th percentile per-packet one-way delay: 95.026 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 27.09 Mbit/s

95th percentile per-packet one-way delay: 93.734 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 32.23 Mbit/s

95th percentile per-packet one-way delay: 98.710 ms

Loss rate: 0.58%

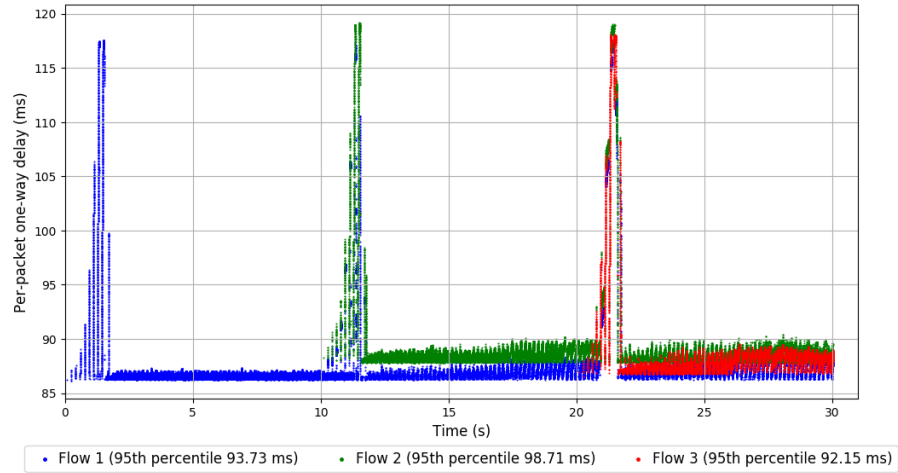
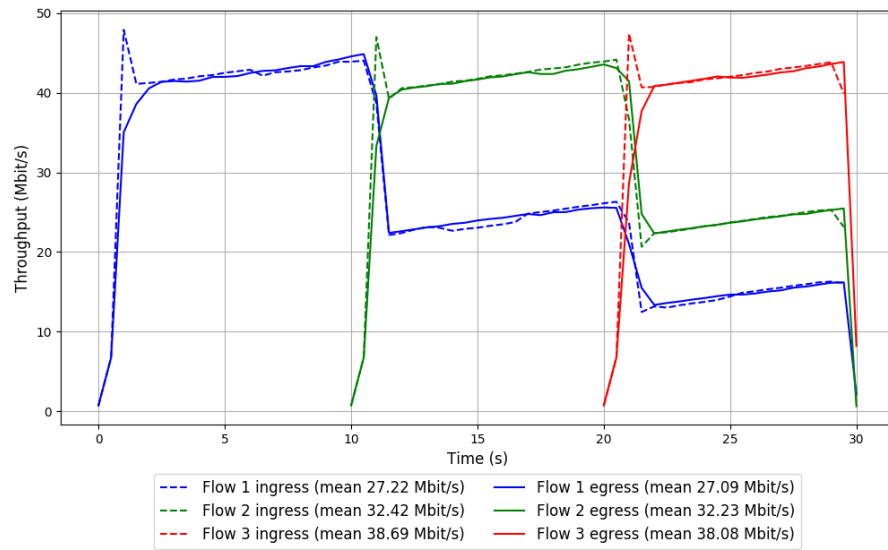
-- Flow 3:

Average throughput: 38.08 Mbit/s

95th percentile per-packet one-way delay: 92.146 ms

Loss rate: 1.57%

# Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-10 05:44:32

End at: 2018-01-10 05:45:02

Local clock offset: 3.952 ms

Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2018-01-10 06:59:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.41 Mbit/s

95th percentile per-packet one-way delay: 95.328 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 24.24 Mbit/s

95th percentile per-packet one-way delay: 94.782 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 17.77 Mbit/s

95th percentile per-packet one-way delay: 102.016 ms

Loss rate: 1.90%

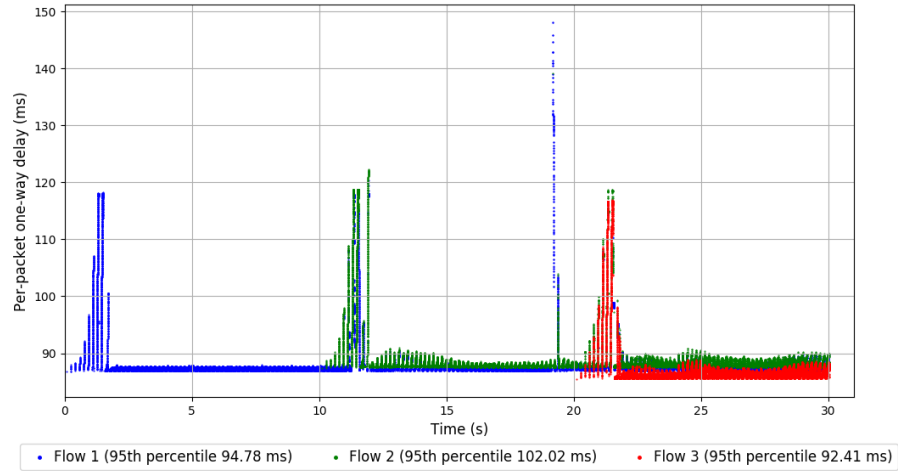
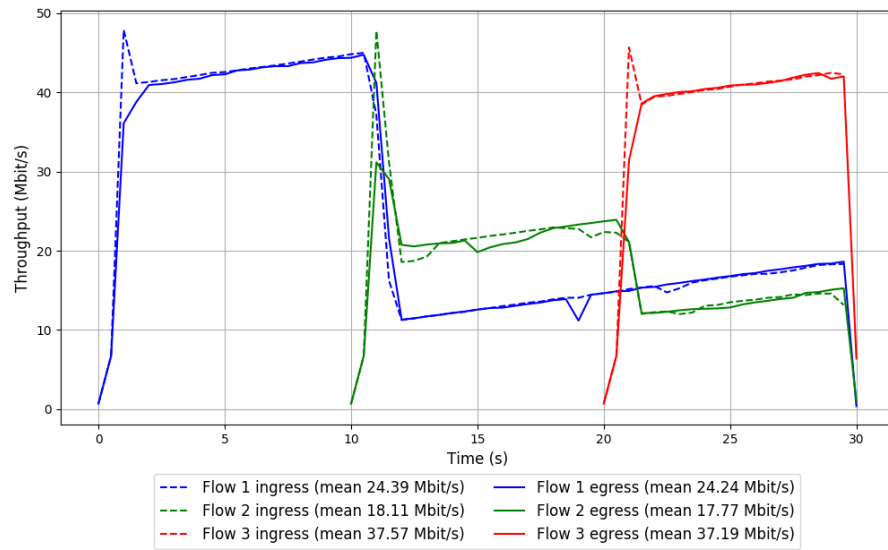
-- Flow 3:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 92.407 ms

Loss rate: 0.99%

# Run 9: Report of TCP Vegas — Data Link

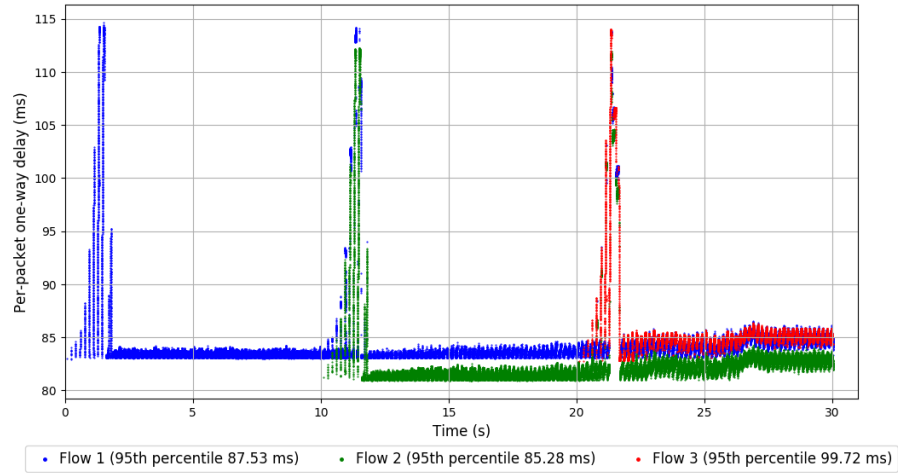
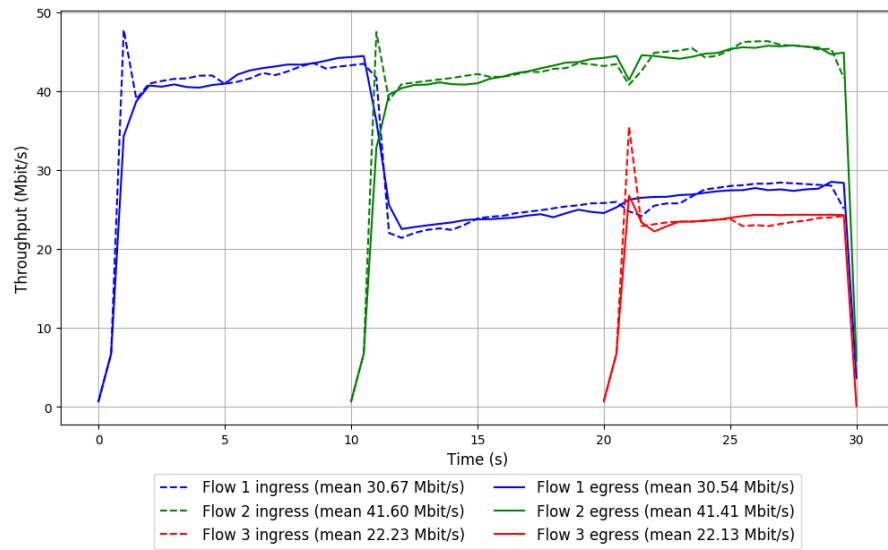


Run 10: Statistics of TCP Vegas

Start at: 2018-01-10 06:04:00  
End at: 2018-01-10 06:04:30  
Local clock offset: 4.18 ms  
Remote clock offset: -3.189 ms

# Below is generated by plot.py at 2018-01-10 06:59:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.45 Mbit/s  
95th percentile per-packet one-way delay: 88.213 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 30.54 Mbit/s  
95th percentile per-packet one-way delay: 87.527 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 41.41 Mbit/s  
95th percentile per-packet one-way delay: 85.285 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 22.13 Mbit/s  
95th percentile per-packet one-way delay: 99.715 ms  
Loss rate: 0.42%

# Run 10: Report of TCP Vegas — Data Link



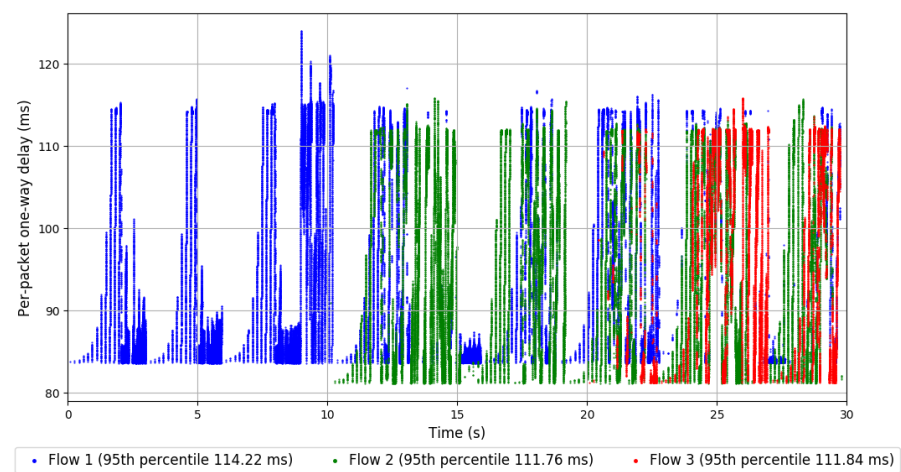
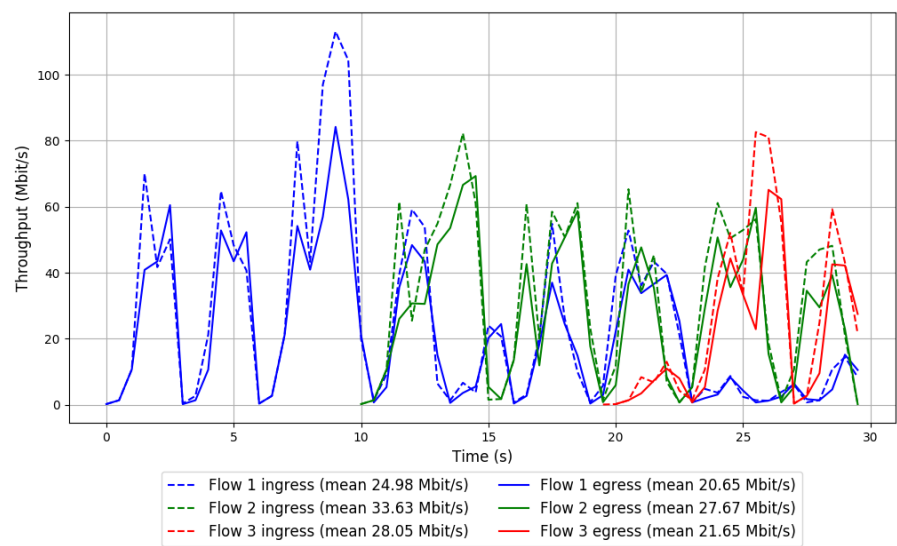
Run 1: Statistics of Verus

Start at: 2018-01-10 02:56:29  
End at: 2018-01-10 02:56:59  
Local clock offset: 1.58 ms  
Remote clock offset: -3.917 ms

# Below is generated by plot.py at 2018-01-10 06:59:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.98 Mbit/s  
95th percentile per-packet one-way delay: 113.482 ms  
Loss rate: 18.33%  
-- Flow 1:  
Average throughput: 20.65 Mbit/s  
95th percentile per-packet one-way delay: 114.217 ms  
Loss rate: 17.28%  
-- Flow 2:  
Average throughput: 27.67 Mbit/s  
95th percentile per-packet one-way delay: 111.759 ms  
Loss rate: 17.75%  
-- Flow 3:  
Average throughput: 21.65 Mbit/s  
95th percentile per-packet one-way delay: 111.843 ms  
Loss rate: 22.63%



Run 1: Report of Verus — Data Link

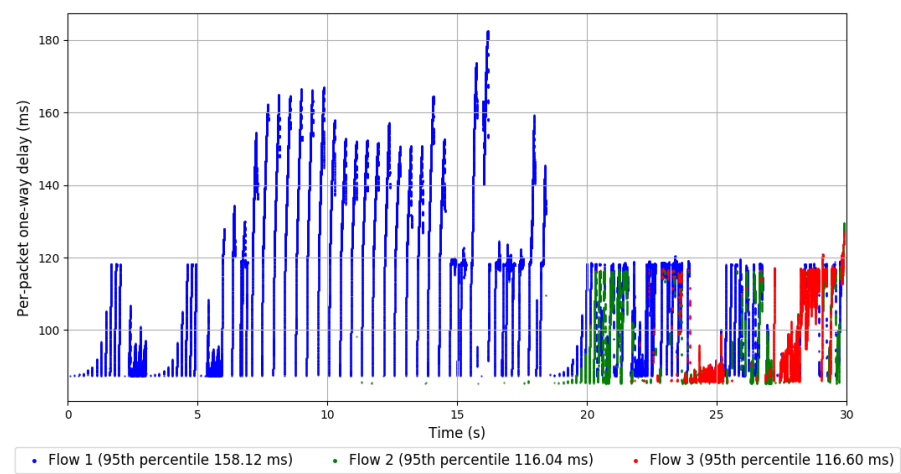
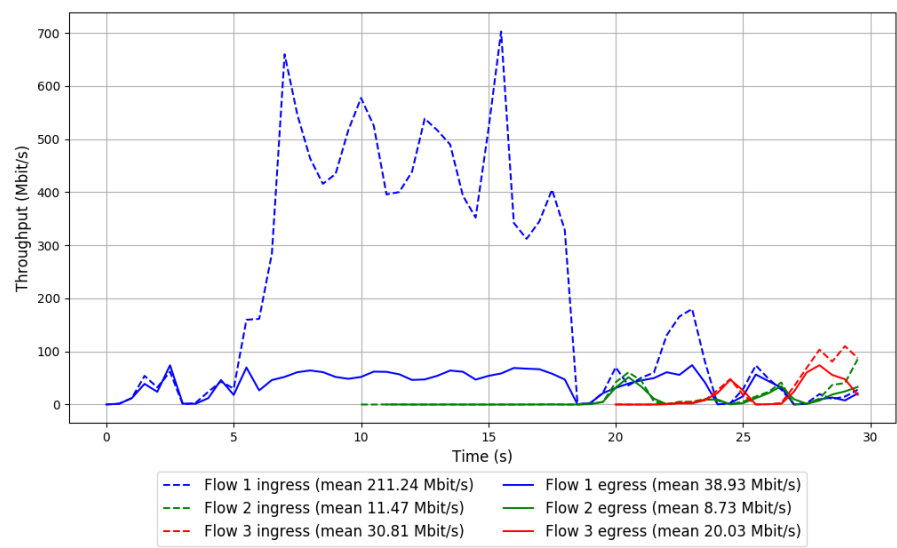


Run 2: Statistics of Verus

Start at: 2018-01-10 03:15:54  
End at: 2018-01-10 03:16:24  
Local clock offset: 2.096 ms  
Remote clock offset: 0.482 ms

# Below is generated by plot.py at 2018-01-10 07:00:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.87 Mbit/s  
95th percentile per-packet one-way delay: 155.657 ms  
Loss rate: 77.69%  
-- Flow 1:  
Average throughput: 38.93 Mbit/s  
95th percentile per-packet one-way delay: 158.120 ms  
Loss rate: 81.55%  
-- Flow 2:  
Average throughput: 8.73 Mbit/s  
95th percentile per-packet one-way delay: 116.041 ms  
Loss rate: 27.64%  
-- Flow 3:  
Average throughput: 20.03 Mbit/s  
95th percentile per-packet one-way delay: 116.597 ms  
Loss rate: 34.81%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-10 03:35:27

End at: 2018-01-10 03:35:57

Local clock offset: 2.479 ms

Remote clock offset: 0.332 ms

# Below is generated by plot.py at 2018-01-10 07:01:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 175.206 ms

Loss rate: 85.61%

-- Flow 1:

Average throughput: 49.29 Mbit/s

95th percentile per-packet one-way delay: 175.213 ms

Loss rate: 85.61%

-- Flow 2:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 103.440 ms

Loss rate: 67.92%

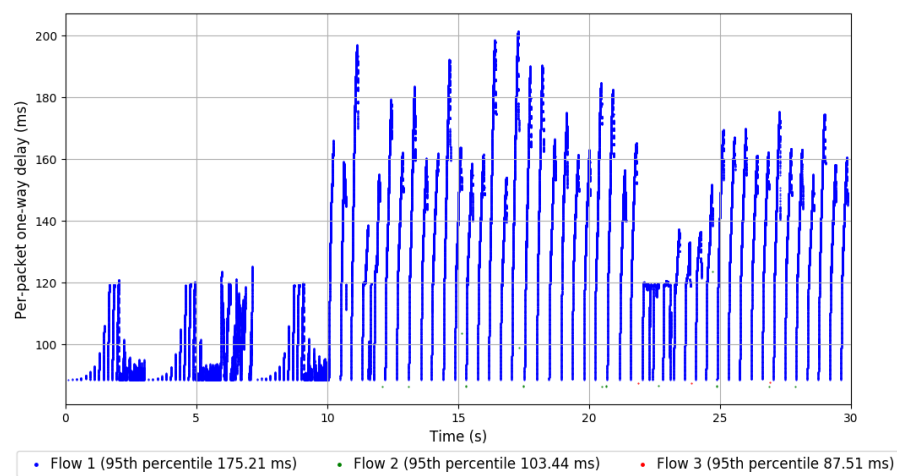
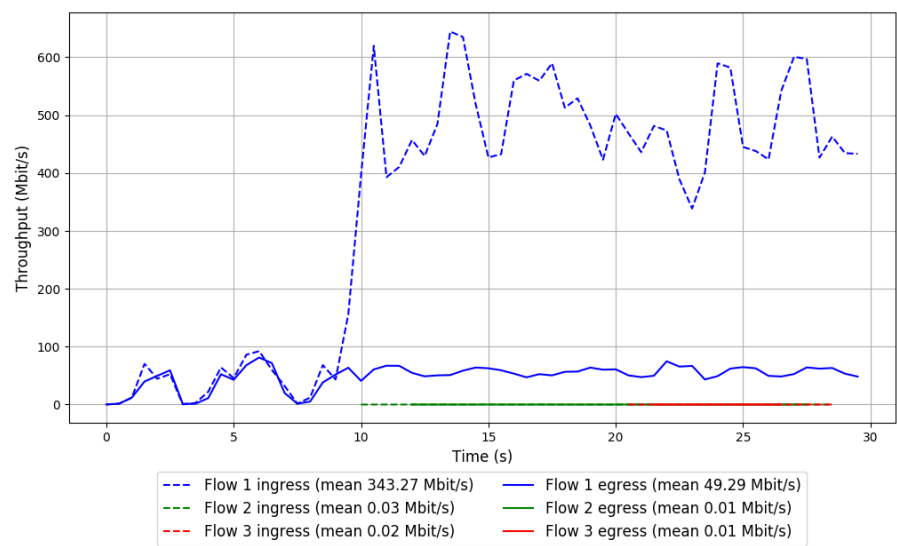
-- Flow 3:

Average throughput: 0.01 Mbit/s

95th percentile per-packet one-way delay: 87.514 ms

Loss rate: 80.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

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

End at: 2018-01-10 03:55:31

Local clock offset: 2.703 ms

Remote clock offset: -4.06 ms

# Below is generated by plot.py at 2018-01-10 07:01:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 47.55 Mbit/s

95th percentile per-packet one-way delay: 116.034 ms

Loss rate: 46.05%

-- Flow 1:

Average throughput: 31.10 Mbit/s

95th percentile per-packet one-way delay: 125.573 ms

Loss rate: 55.44%

-- Flow 2:

Average throughput: 20.16 Mbit/s

95th percentile per-packet one-way delay: 111.602 ms

Loss rate: 10.42%

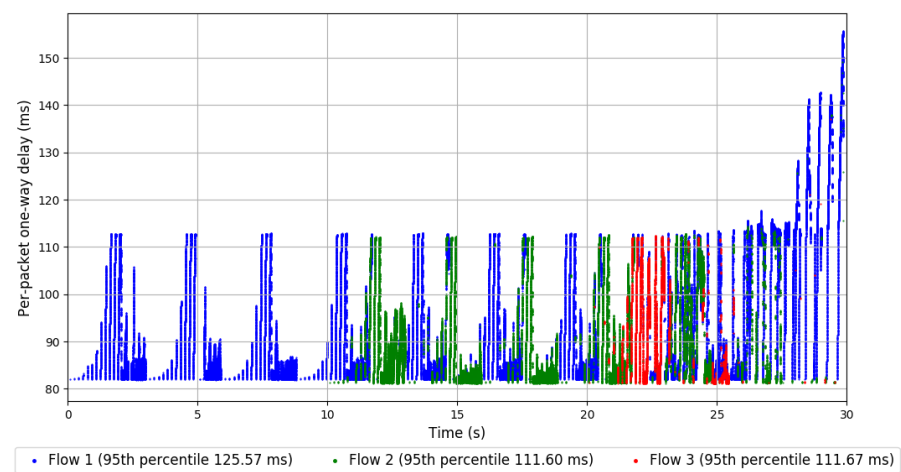
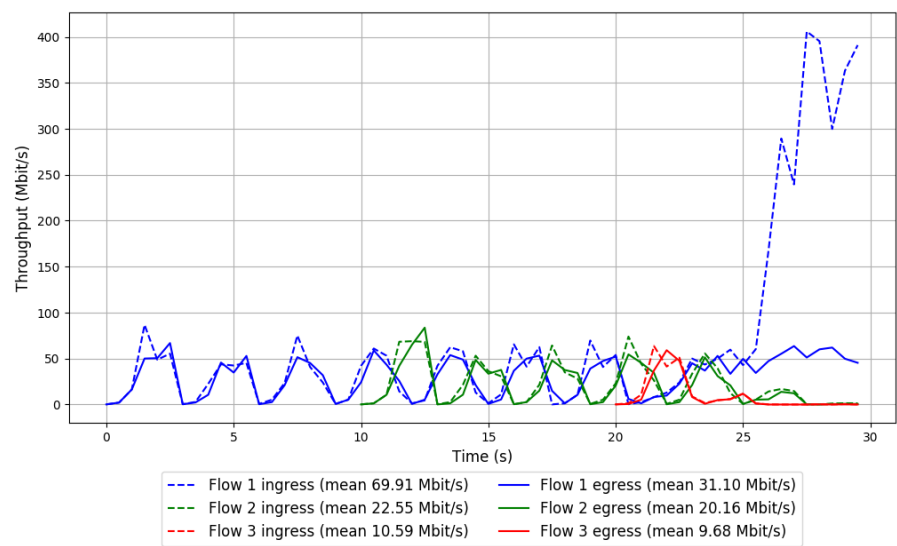
-- Flow 3:

Average throughput: 9.68 Mbit/s

95th percentile per-packet one-way delay: 111.675 ms

Loss rate: 10.20%

Run 4: Report of Verus — Data Link



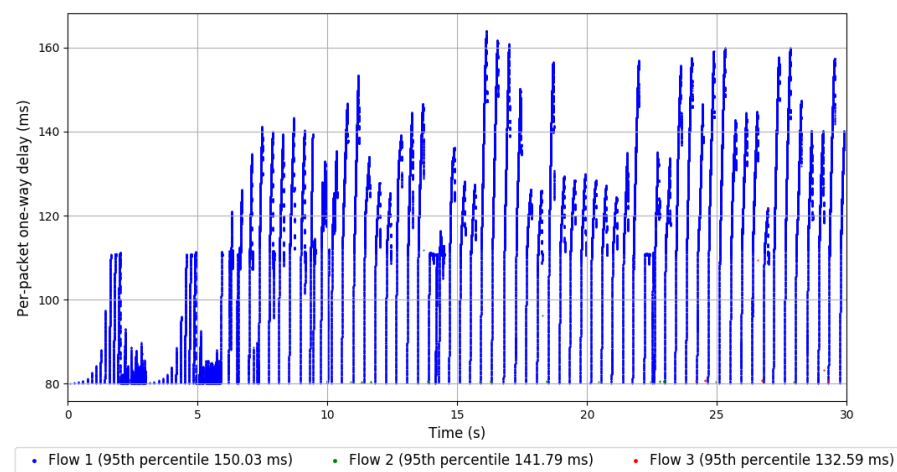
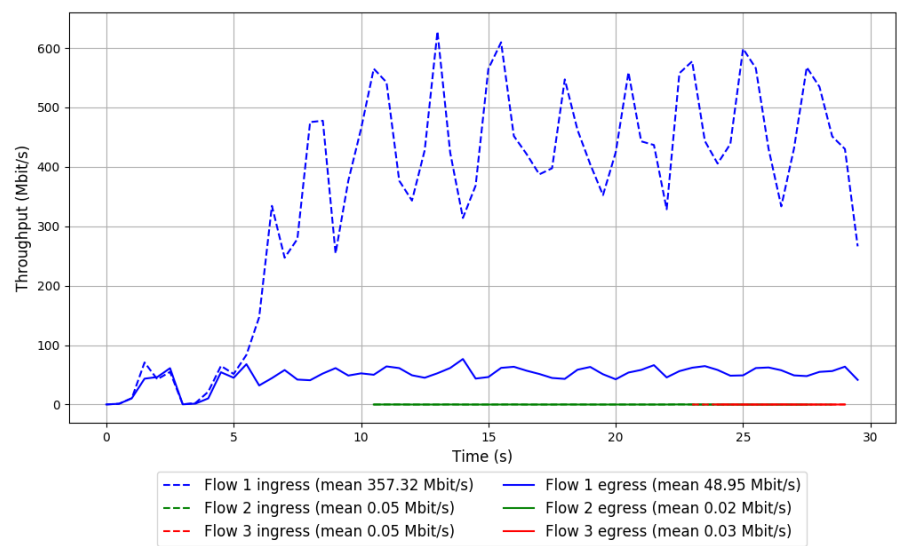
Run 5: Statistics of Verus

Start at: 2018-01-10 04:14:27  
End at: 2018-01-10 04:14:57  
Local clock offset: 2.628 ms  
Remote clock offset: -4.751 ms

# Below is generated by plot.py at 2018-01-10 07:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.97 Mbit/s  
95th percentile per-packet one-way delay: 150.027 ms  
Loss rate: 86.27%  
-- Flow 1:  
Average throughput: 48.95 Mbit/s  
95th percentile per-packet one-way delay: 150.030 ms  
Loss rate: 86.27%  
-- Flow 2:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 141.786 ms  
Loss rate: 61.64%  
-- Flow 3:  
Average throughput: 0.03 Mbit/s  
95th percentile per-packet one-way delay: 132.588 ms  
Loss rate: 60.71%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-10 04:34:08

End at: 2018-01-10 04:34:38

Local clock offset: 2.52 ms

Remote clock offset: 2.07 ms

# Below is generated by plot.py at 2018-01-10 07:02:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.54 Mbit/s

95th percentile per-packet one-way delay: 137.286 ms

Loss rate: 65.32%

-- Flow 1:

Average throughput: 19.85 Mbit/s

95th percentile per-packet one-way delay: 118.170 ms

Loss rate: 16.03%

-- Flow 2:

Average throughput: 23.65 Mbit/s

95th percentile per-packet one-way delay: 117.823 ms

Loss rate: 24.51%

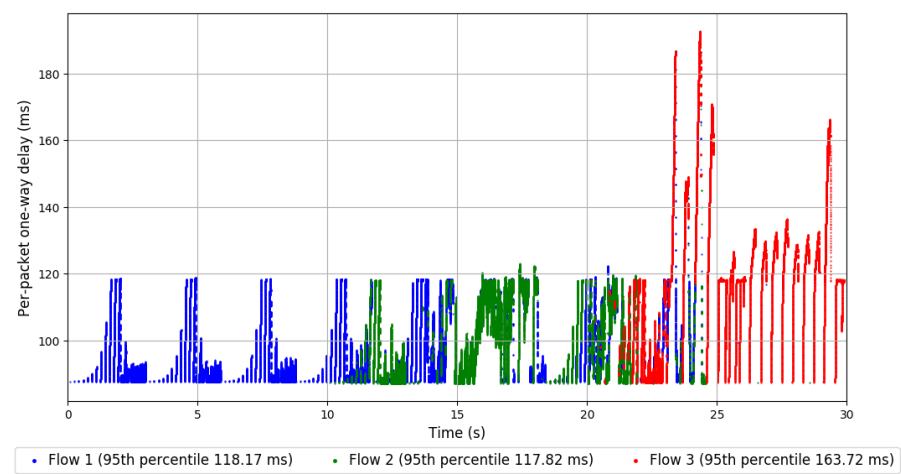
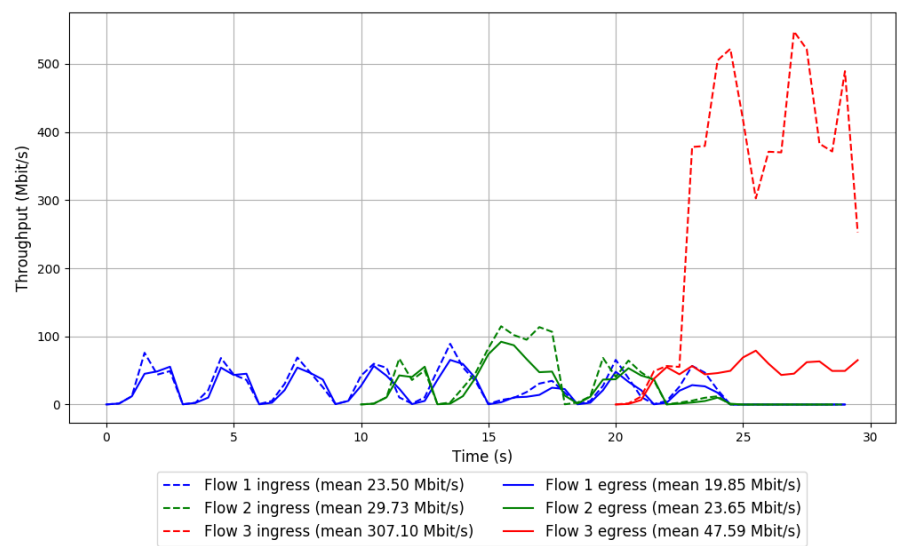
-- Flow 3:

Average throughput: 47.59 Mbit/s

95th percentile per-packet one-way delay: 163.718 ms

Loss rate: 84.50%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-10 04:52:38

End at: 2018-01-10 04:53:08

Local clock offset: 2.561 ms

Remote clock offset: 1.121 ms

# Below is generated by plot.py at 2018-01-10 07:02:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 42.72 Mbit/s

95th percentile per-packet one-way delay: 125.262 ms

Loss rate: 48.69%

-- Flow 1:

Average throughput: 26.23 Mbit/s

95th percentile per-packet one-way delay: 131.848 ms

Loss rate: 55.01%

-- Flow 2:

Average throughput: 16.19 Mbit/s

95th percentile per-packet one-way delay: 117.631 ms

Loss rate: 40.31%

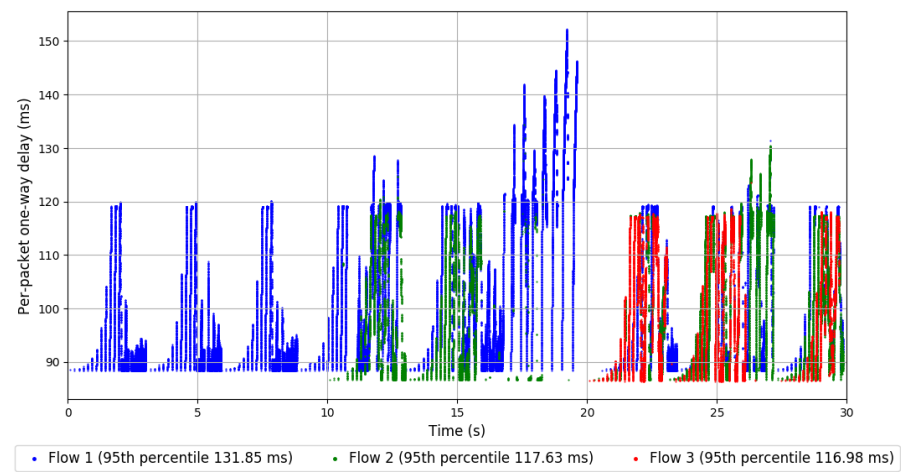
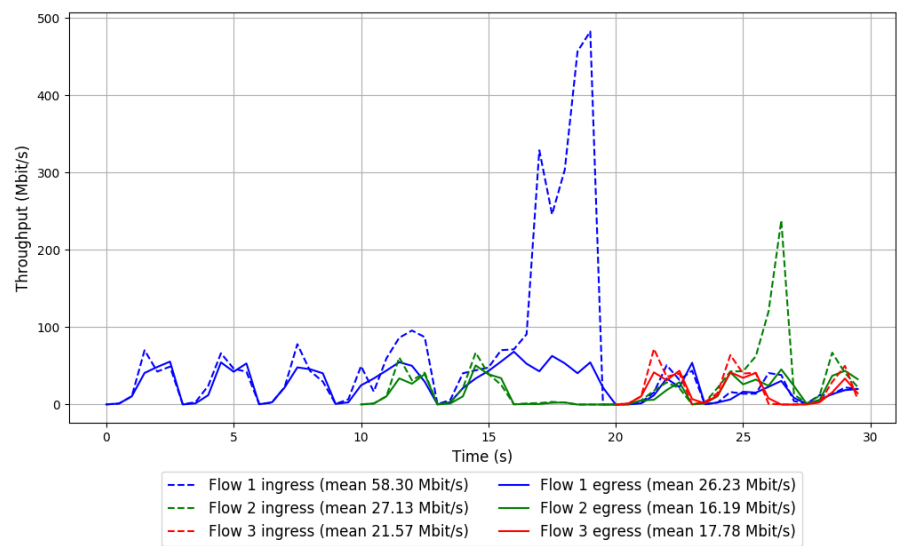
-- Flow 3:

Average throughput: 17.78 Mbit/s

95th percentile per-packet one-way delay: 116.980 ms

Loss rate: 17.41%

Run 7: Report of Verus — Data Link

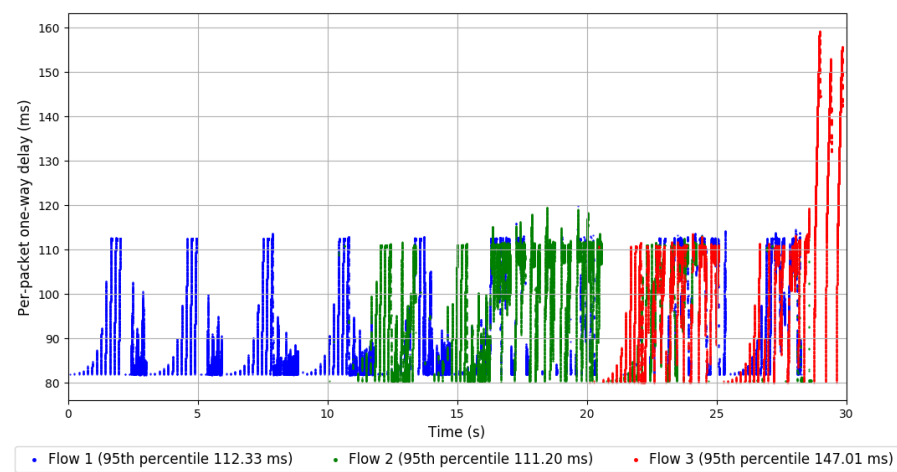
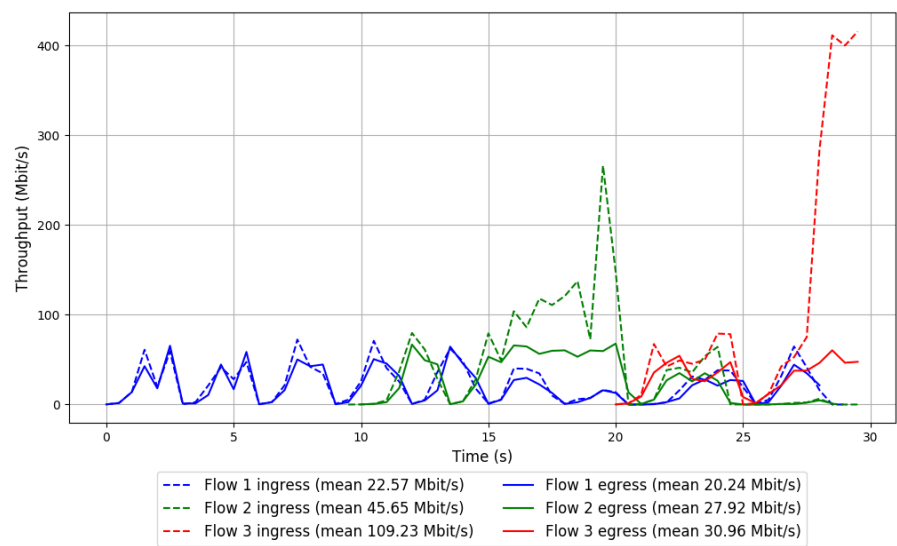


Run 8: Statistics of Verus

Start at: 2018-01-10 05:12:06  
End at: 2018-01-10 05:12:36  
Local clock offset: 3.024 ms  
Remote clock offset: -4.979 ms

# Below is generated by plot.py at 2018-01-10 07:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.72 Mbit/s  
95th percentile per-packet one-way delay: 113.452 ms  
Loss rate: 46.72%  
-- Flow 1:  
Average throughput: 20.24 Mbit/s  
95th percentile per-packet one-way delay: 112.332 ms  
Loss rate: 13.43%  
-- Flow 2:  
Average throughput: 27.92 Mbit/s  
95th percentile per-packet one-way delay: 111.197 ms  
Loss rate: 41.96%  
-- Flow 3:  
Average throughput: 30.96 Mbit/s  
95th percentile per-packet one-way delay: 147.006 ms  
Loss rate: 71.47%

Run 8: Report of Verus — Data Link



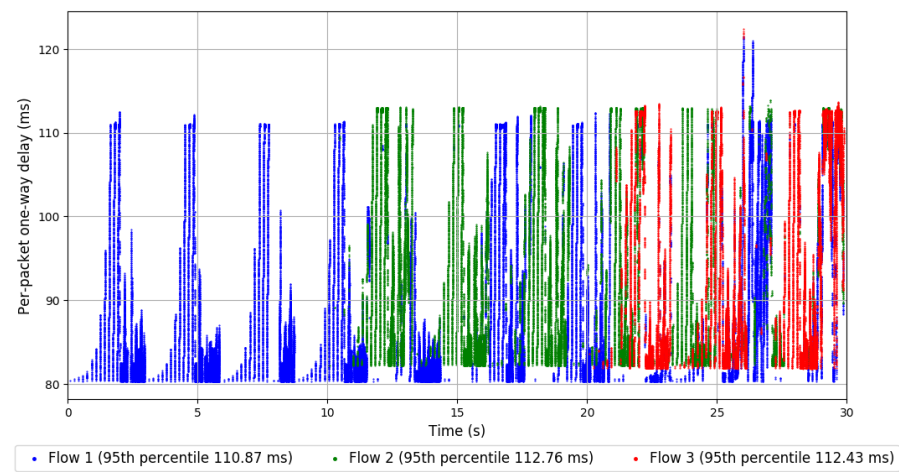
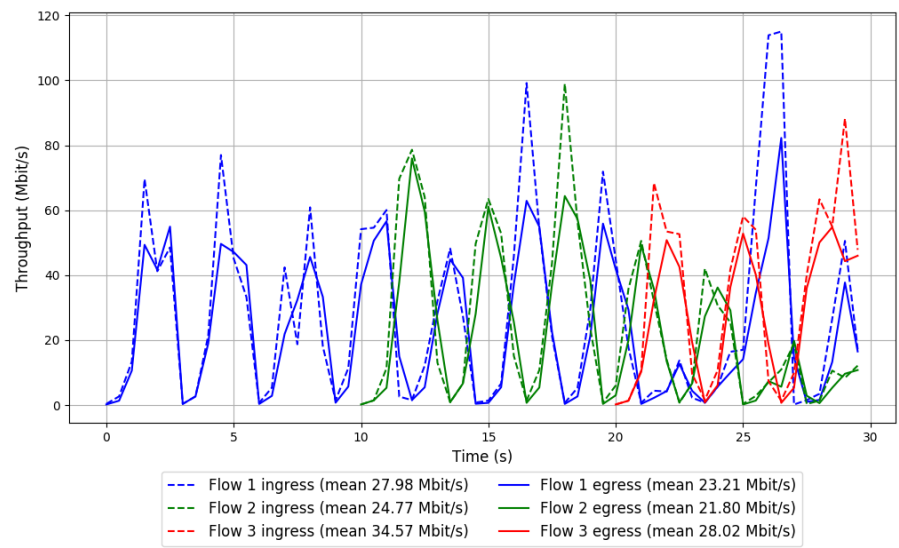
Run 9: Statistics of Verus

Start at: 2018-01-10 05:31:29  
End at: 2018-01-10 05:31:59  
Local clock offset: 3.661 ms  
Remote clock offset: -4.456 ms

# Below is generated by plot.py at 2018-01-10 07:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.88 Mbit/s  
95th percentile per-packet one-way delay: 112.319 ms  
Loss rate: 15.83%  
-- Flow 1:  
Average throughput: 23.21 Mbit/s  
95th percentile per-packet one-way delay: 110.874 ms  
Loss rate: 16.97%  
-- Flow 2:  
Average throughput: 21.80 Mbit/s  
95th percentile per-packet one-way delay: 112.759 ms  
Loss rate: 11.89%  
-- Flow 3:  
Average throughput: 28.02 Mbit/s  
95th percentile per-packet one-way delay: 112.428 ms  
Loss rate: 18.73%



Run 9: Report of Verus — Data Link

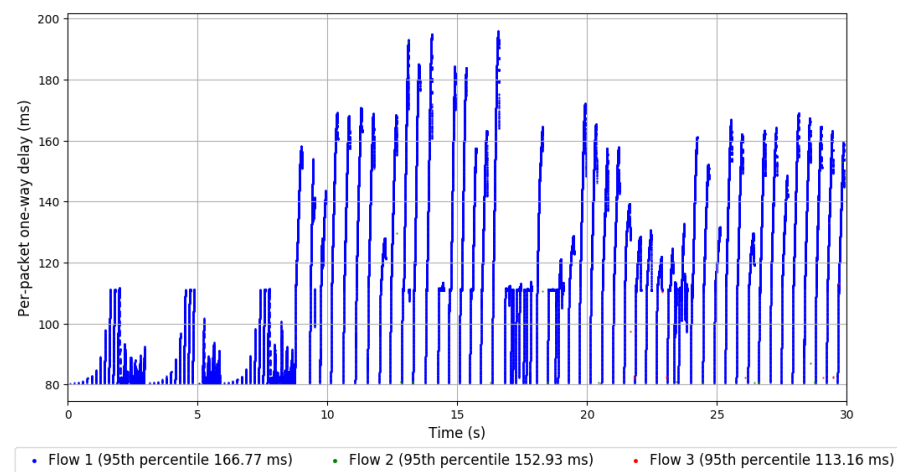
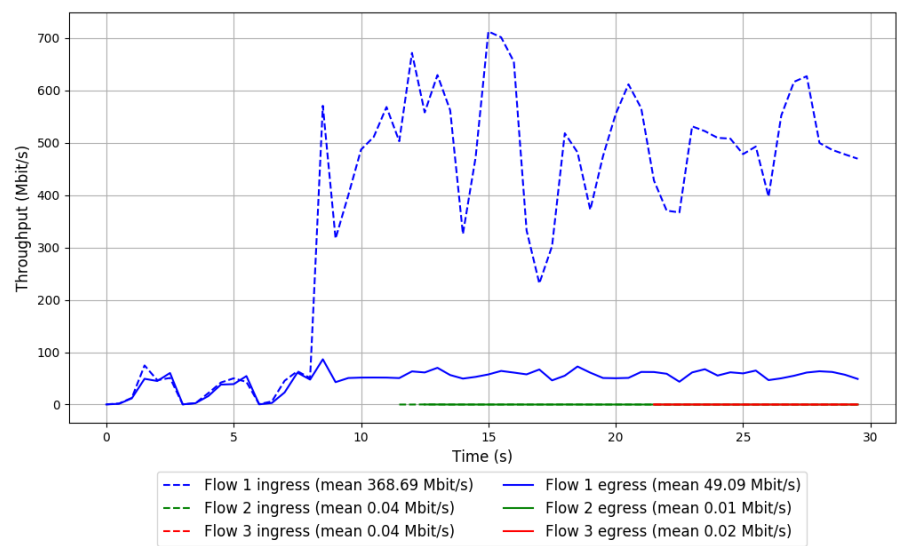


Run 10: Statistics of Verus

Start at: 2018-01-10 05:50:55  
End at: 2018-01-10 05:51:25  
Local clock offset: 4.043 ms  
Remote clock offset: -4.076 ms

# Below is generated by plot.py at 2018-01-10 07:03:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.11 Mbit/s  
95th percentile per-packet one-way delay: 166.766 ms  
Loss rate: 86.65%  
-- Flow 1:  
Average throughput: 49.09 Mbit/s  
95th percentile per-packet one-way delay: 166.768 ms  
Loss rate: 86.66%  
-- Flow 2:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 152.929 ms  
Loss rate: 62.96%  
-- Flow 3:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 113.158 ms  
Loss rate: 56.67%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-10 03:05:31

End at: 2018-01-10 03:06:01

Local clock offset: 1.875 ms

Remote clock offset: 0.668 ms

# Below is generated by plot.py at 2018-01-10 07:04:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.31 Mbit/s

95th percentile per-packet one-way delay: 104.056 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 74.86 Mbit/s

95th percentile per-packet one-way delay: 103.058 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.21 Mbit/s

95th percentile per-packet one-way delay: 107.000 ms

Loss rate: 0.00%

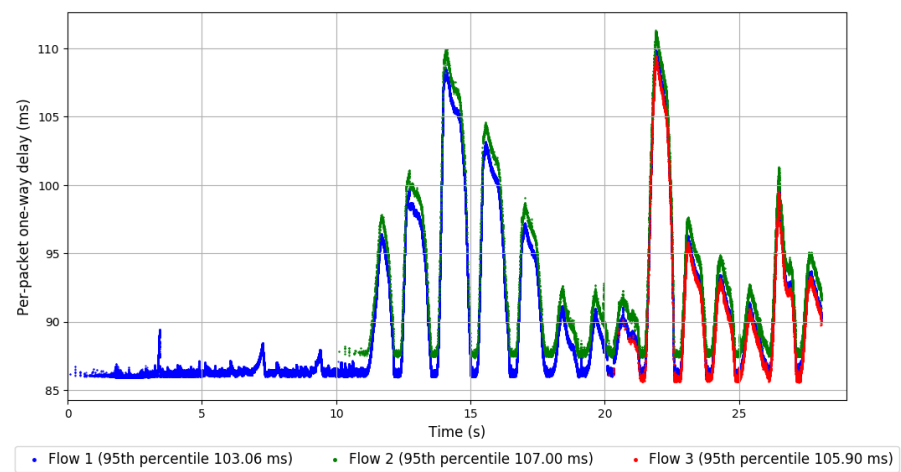
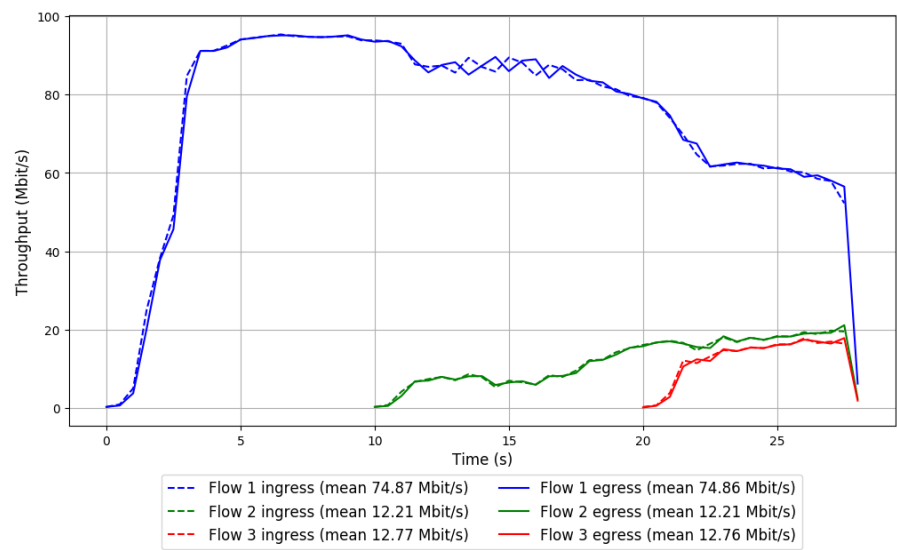
-- Flow 3:

Average throughput: 12.76 Mbit/s

95th percentile per-packet one-way delay: 105.902 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

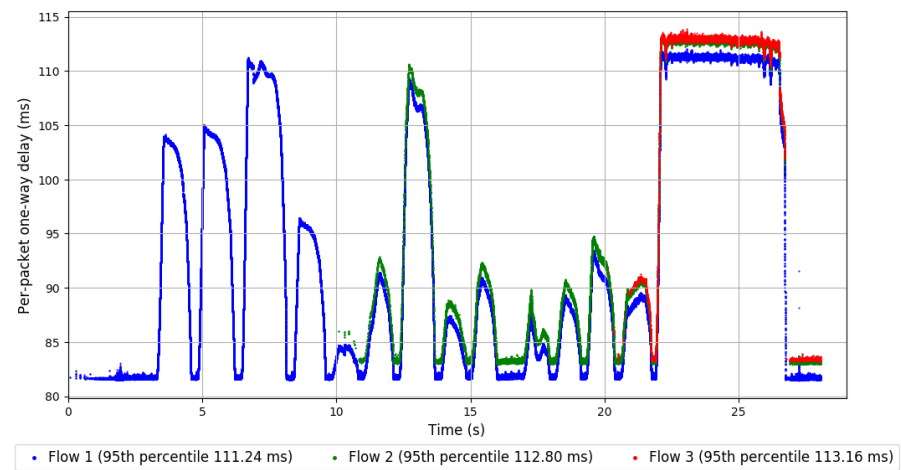
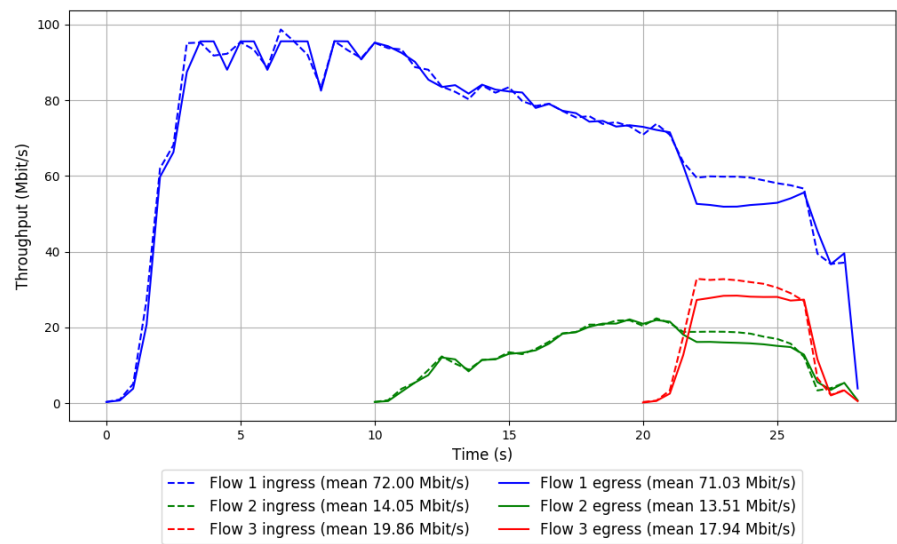


Run 2: Statistics of Copa

Start at: 2018-01-10 03:25:01  
End at: 2018-01-10 03:25:31  
Local clock offset: 2.308 ms  
Remote clock offset: -4.085 ms

# Below is generated by plot.py at 2018-01-10 07:04:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.77 Mbit/s  
95th percentile per-packet one-way delay: 112.664 ms  
Loss rate: 2.16%  
-- Flow 1:  
Average throughput: 71.03 Mbit/s  
95th percentile per-packet one-way delay: 111.242 ms  
Loss rate: 1.35%  
-- Flow 2:  
Average throughput: 13.51 Mbit/s  
95th percentile per-packet one-way delay: 112.803 ms  
Loss rate: 3.88%  
-- Flow 3:  
Average throughput: 17.94 Mbit/s  
95th percentile per-packet one-way delay: 113.162 ms  
Loss rate: 9.78%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-10 03:44:41

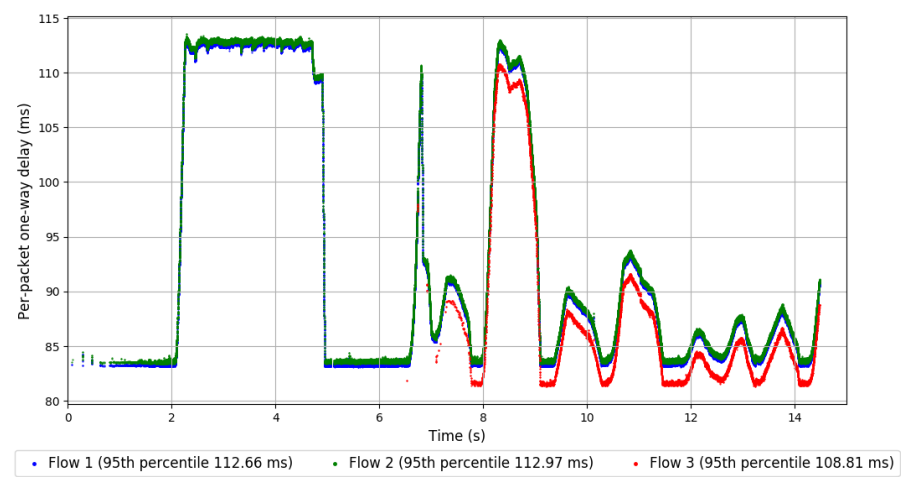
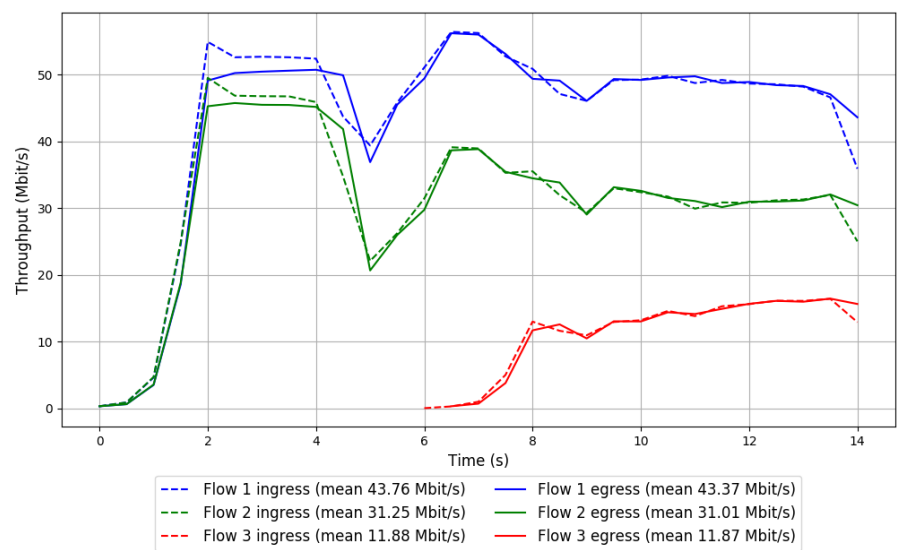
End at: 2018-01-10 03:45:11

Local clock offset: 2.596 ms

Remote clock offset: -4.127 ms



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

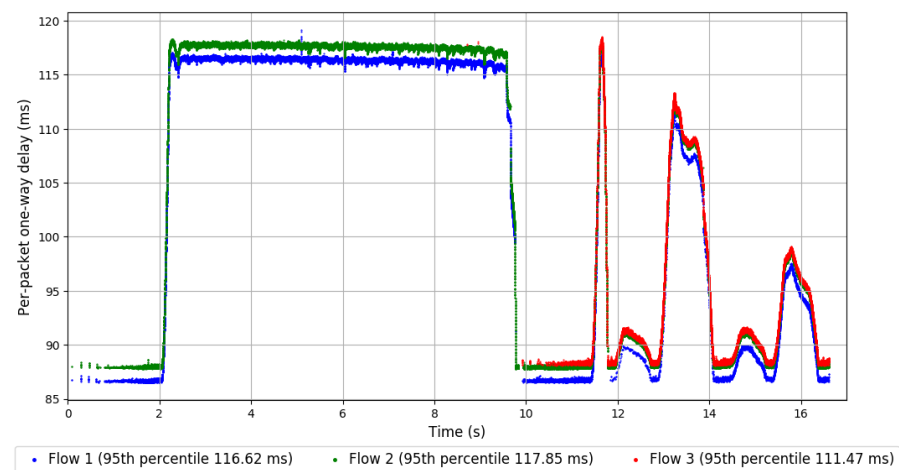
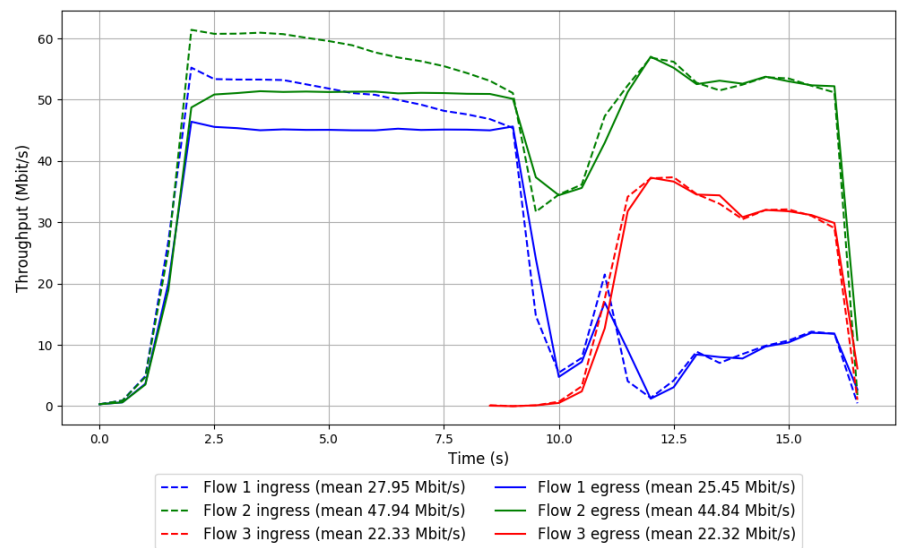
Start at: 2018-01-10 04:04:03

End at: 2018-01-10 04:04:33

Local clock offset: 2.702 ms

Remote clock offset: 1.098 ms

Run 4: Report of Copa — Data Link

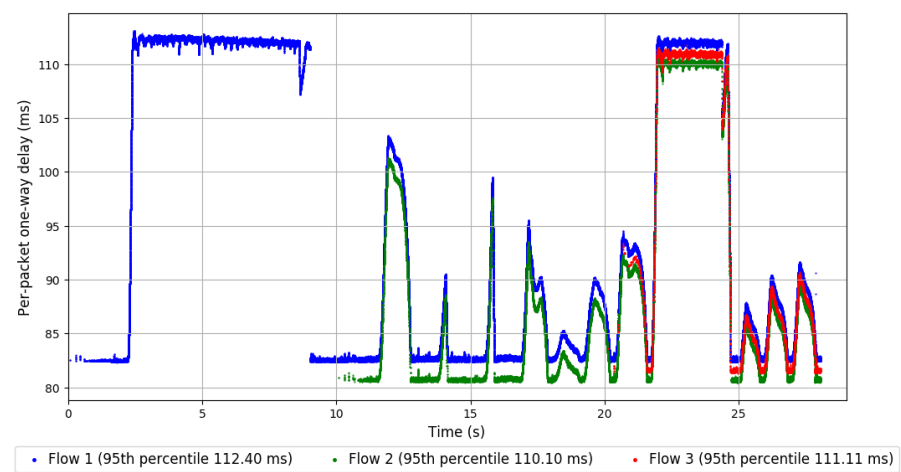
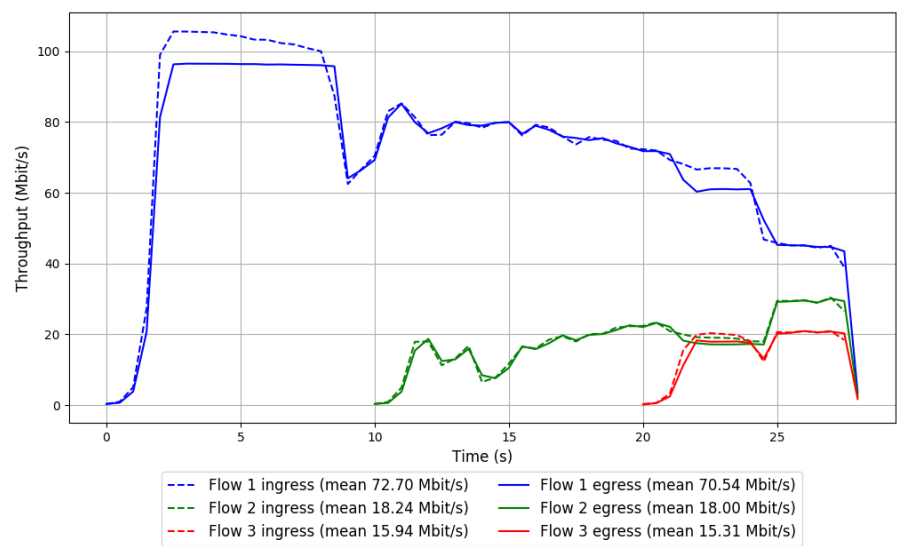


Run 5: Statistics of Copa

Start at: 2018-01-10 04:23:43  
End at: 2018-01-10 04:24:13  
Local clock offset: 2.382 ms  
Remote clock offset: -4.576 ms

# Below is generated by plot.py at 2018-01-10 07:04:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.42 Mbit/s  
95th percentile per-packet one-way delay: 112.377 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 70.54 Mbit/s  
95th percentile per-packet one-way delay: 112.404 ms  
Loss rate: 2.96%  
-- Flow 2:  
Average throughput: 18.00 Mbit/s  
95th percentile per-packet one-way delay: 110.100 ms  
Loss rate: 1.35%  
-- Flow 3:  
Average throughput: 15.31 Mbit/s  
95th percentile per-packet one-way delay: 111.110 ms  
Loss rate: 3.95%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

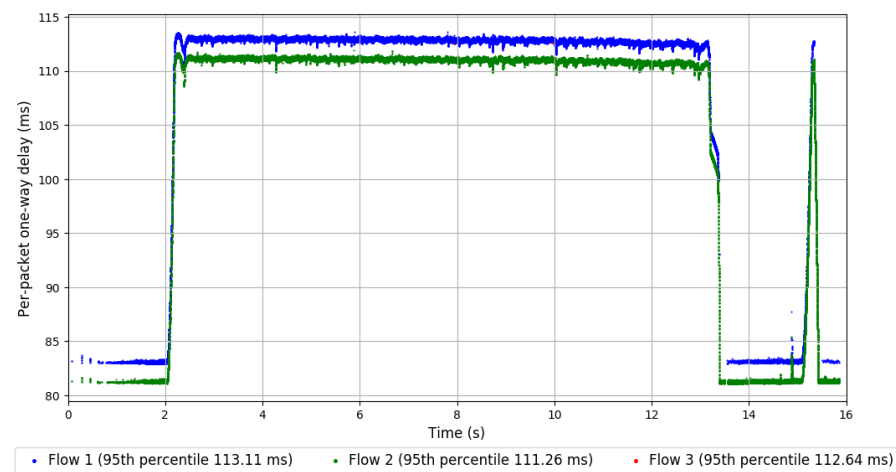
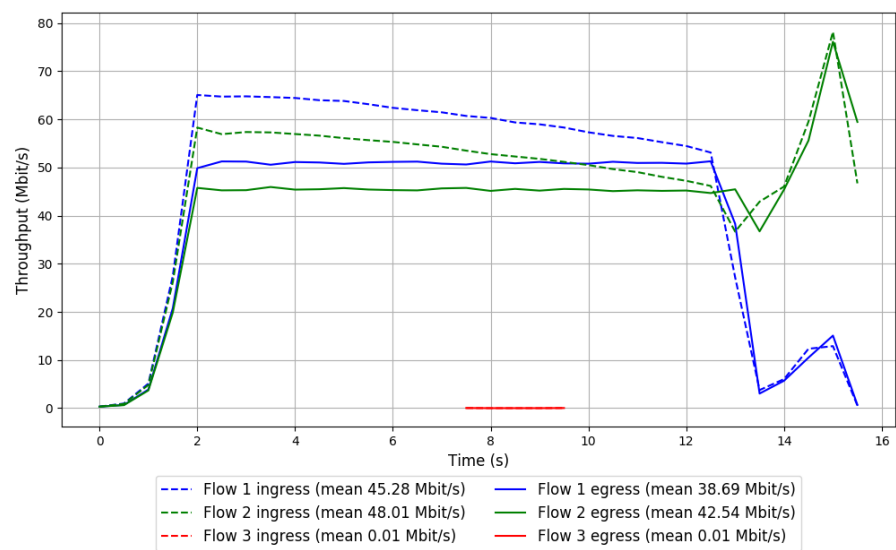
Start at: 2018-01-10 04:43:11

End at: 2018-01-10 04:43:41

Local clock offset: 2.56 ms

Remote clock offset: -4.582 ms

Run 6: Report of Copa — Data Link



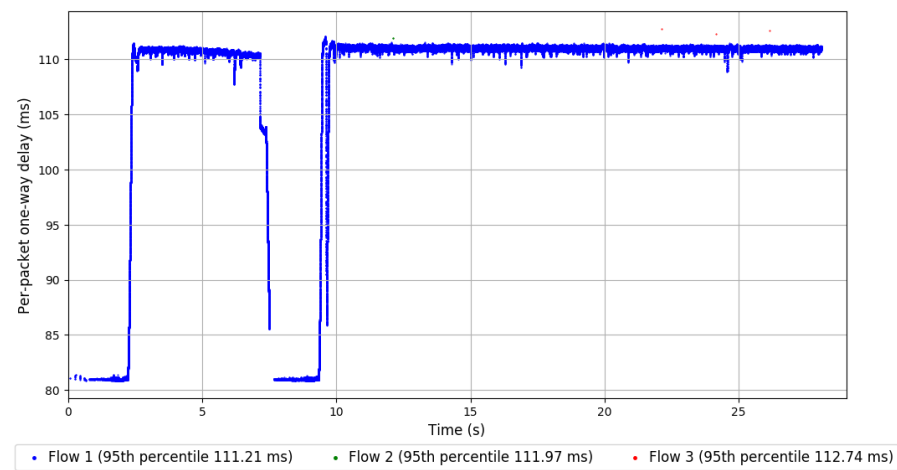
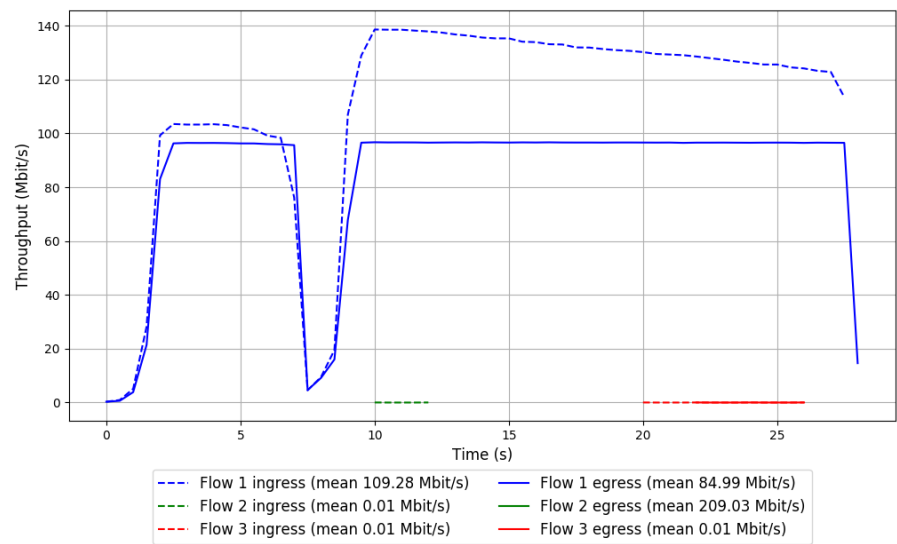
Run 7: Statistics of Copa

Start at: 2018-01-10 05:01:40  
End at: 2018-01-10 05:02:10  
Local clock offset: 2.761 ms  
Remote clock offset: -4.461 ms

# Below is generated by plot.py at 2018-01-10 07:05:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.99 Mbit/s  
95th percentile per-packet one-way delay: 111.207 ms  
Loss rate: 22.15%  
-- Flow 1:  
Average throughput: 84.99 Mbit/s  
95th percentile per-packet one-way delay: 111.207 ms  
Loss rate: 22.14%  
-- Flow 2:  
Average throughput: 209.03 Mbit/s  
95th percentile per-packet one-way delay: 111.971 ms  
Loss rate: 50.00%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 112.736 ms  
Loss rate: 30.74%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-10 05:21:08

End at: 2018-01-10 05:21:38

Local clock offset: 3.275 ms

Remote clock offset: 1.105 ms

# Below is generated by plot.py at 2018-01-10 07:05:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 116.209 ms

Loss rate: 5.03%

-- Flow 1:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 2125.849 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 116.173 ms

Loss rate: 5.32%

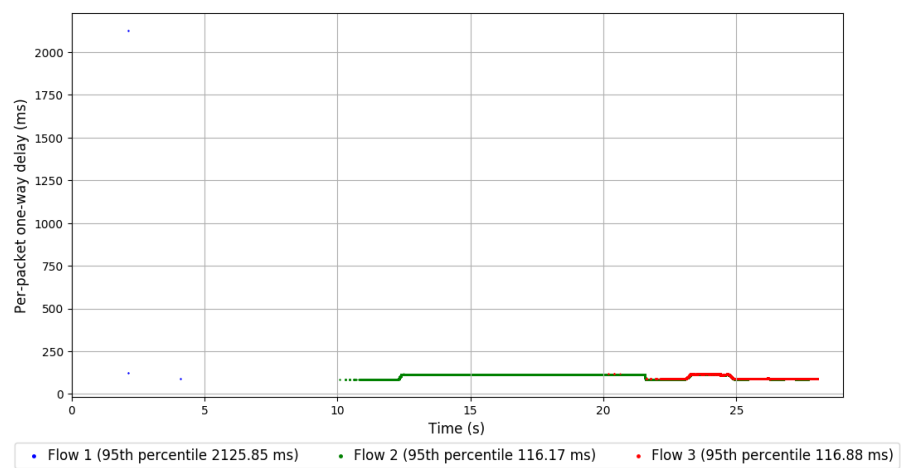
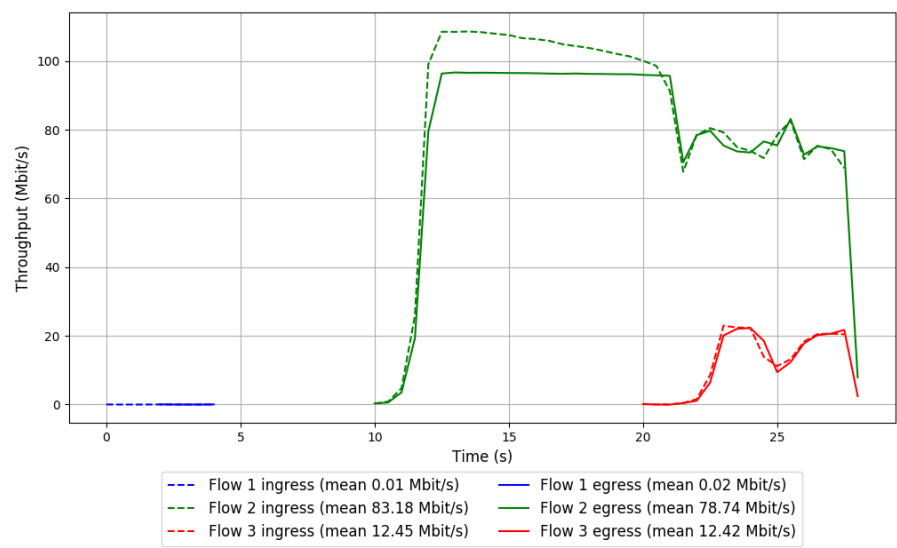
-- Flow 3:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 116.884 ms

Loss rate: 0.60%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-10 05:40:31

End at: 2018-01-10 05:41:01

Local clock offset: 3.823 ms

Remote clock offset: 0.176 ms

# Below is generated by plot.py at 2018-01-10 07:06:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.54 Mbit/s

95th percentile per-packet one-way delay: 115.563 ms

Loss rate: 3.47%

-- Flow 1:

Average throughput: 76.35 Mbit/s

95th percentile per-packet one-way delay: 115.583 ms

Loss rate: 3.99%

-- Flow 2:

Average throughput: 15.79 Mbit/s

95th percentile per-packet one-way delay: 102.368 ms

Loss rate: 0.02%

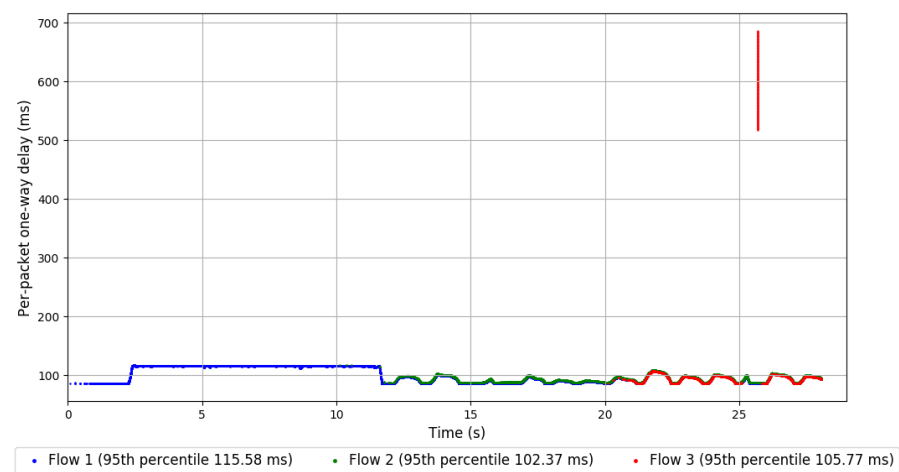
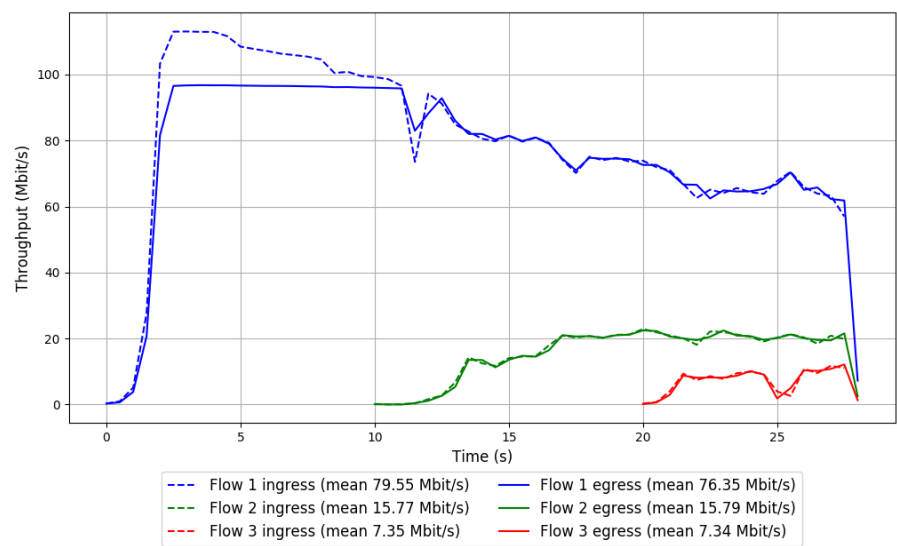
-- Flow 3:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 105.770 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link

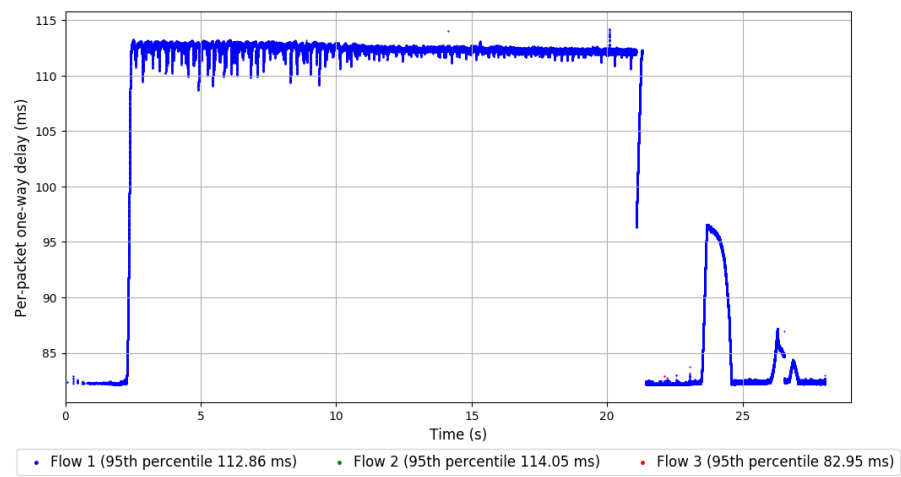
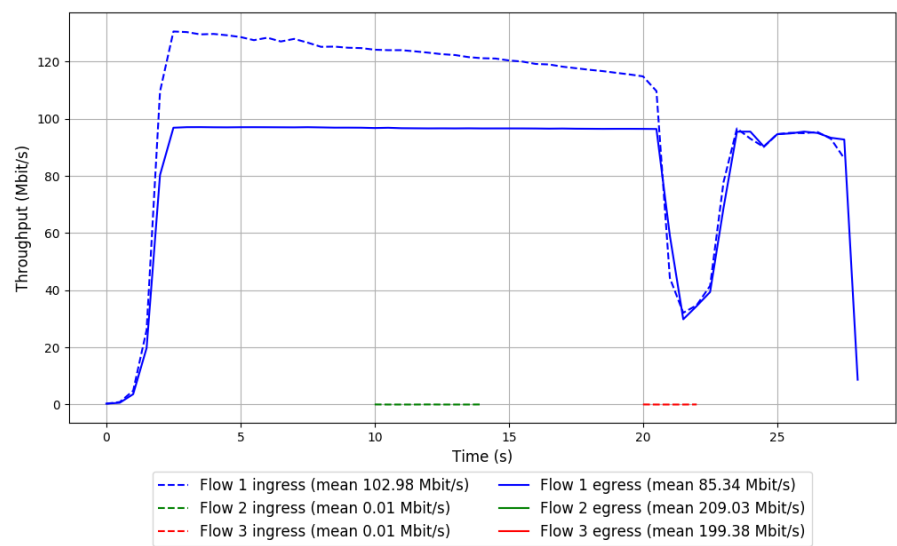


Run 10: Statistics of Copa

Start at: 2018-01-10 06:00:01  
End at: 2018-01-10 06:00:31  
Local clock offset: 4.124 ms  
Remote clock offset: -3.116 ms

# Below is generated by plot.py at 2018-01-10 07:07:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.34 Mbit/s  
95th percentile per-packet one-way delay: 112.858 ms  
Loss rate: 17.13%  
-- Flow 1:  
Average throughput: 85.34 Mbit/s  
95th percentile per-packet one-way delay: 112.858 ms  
Loss rate: 17.13%  
-- Flow 2:  
Average throughput: 209.03 Mbit/s  
95th percentile per-packet one-way delay: 114.051 ms  
Loss rate: 66.67%  
-- Flow 3:  
Average throughput: 199.38 Mbit/s  
95th percentile per-packet one-way delay: 82.946 ms  
Loss rate: 50.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-10 03:04:10

End at: 2018-01-10 03:04:40

Local clock offset: 1.864 ms

Remote clock offset: 0.996 ms

# Below is generated by plot.py at 2018-01-10 07:07:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.73 Mbit/s

95th percentile per-packet one-way delay: 117.134 ms

Loss rate: 32.35%

-- Flow 1:

Average throughput: 55.29 Mbit/s

95th percentile per-packet one-way delay: 117.153 ms

Loss rate: 25.13%

-- Flow 2:

Average throughput: 41.30 Mbit/s

95th percentile per-packet one-way delay: 116.199 ms

Loss rate: 35.81%

-- Flow 3:

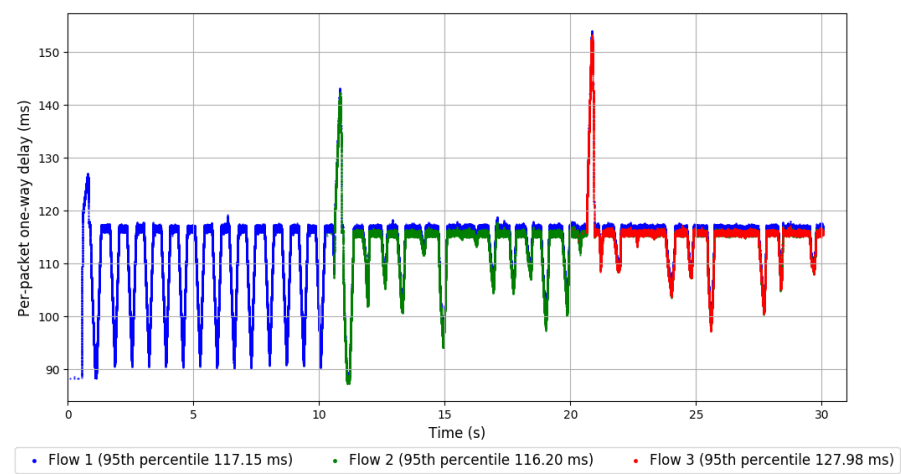
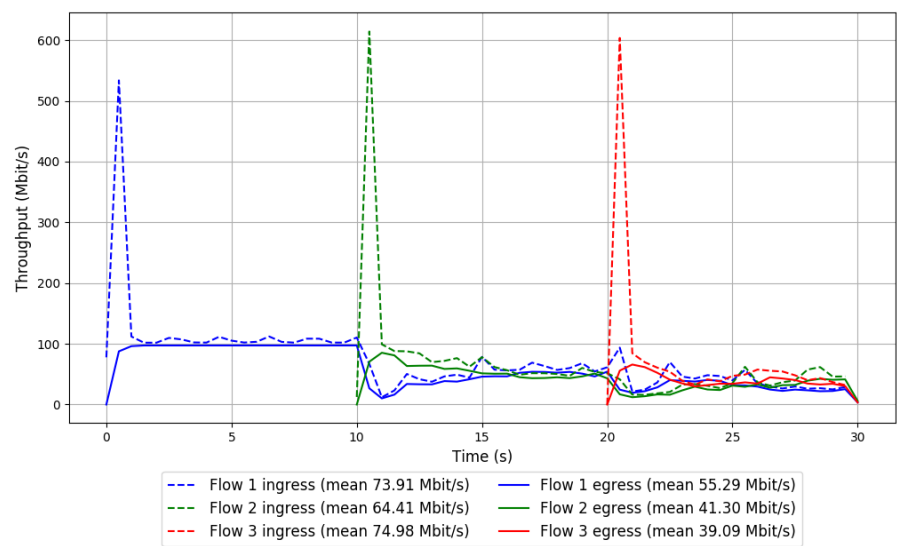
Average throughput: 39.09 Mbit/s

95th percentile per-packet one-way delay: 127.978 ms

Loss rate: 47.86%



Run 1: Report of FillP — Data Link

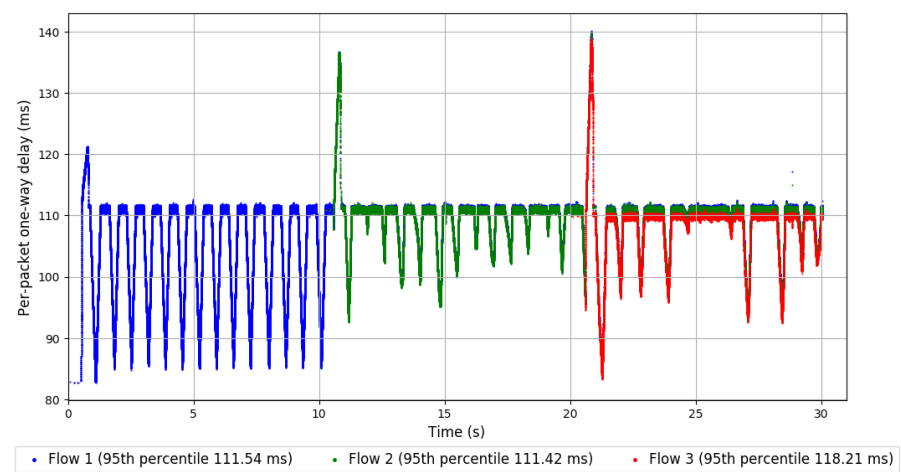
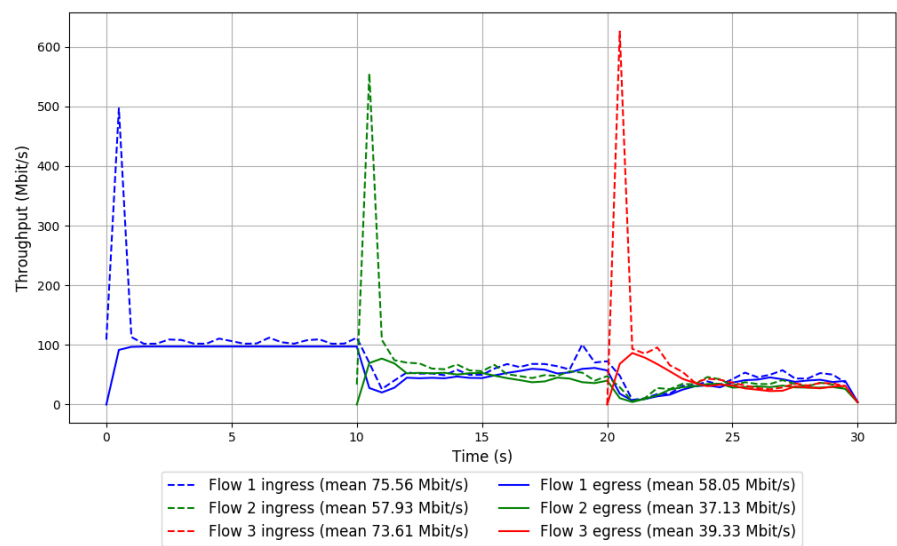


Run 2: Statistics of FillP

Start at: 2018-01-10 03:23:39  
End at: 2018-01-10 03:24:09  
Local clock offset: 2.225 ms  
Remote clock offset: -4.475 ms

# Below is generated by plot.py at 2018-01-10 07:07:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.82 Mbit/s  
95th percentile per-packet one-way delay: 111.534 ms  
Loss rate: 30.78%  
-- Flow 1:  
Average throughput: 58.05 Mbit/s  
95th percentile per-packet one-way delay: 111.540 ms  
Loss rate: 23.10%  
-- Flow 2:  
Average throughput: 37.13 Mbit/s  
95th percentile per-packet one-way delay: 111.422 ms  
Loss rate: 35.82%  
-- Flow 3:  
Average throughput: 39.33 Mbit/s  
95th percentile per-packet one-way delay: 118.207 ms  
Loss rate: 46.57%

Run 2: Report of FillP — Data Link

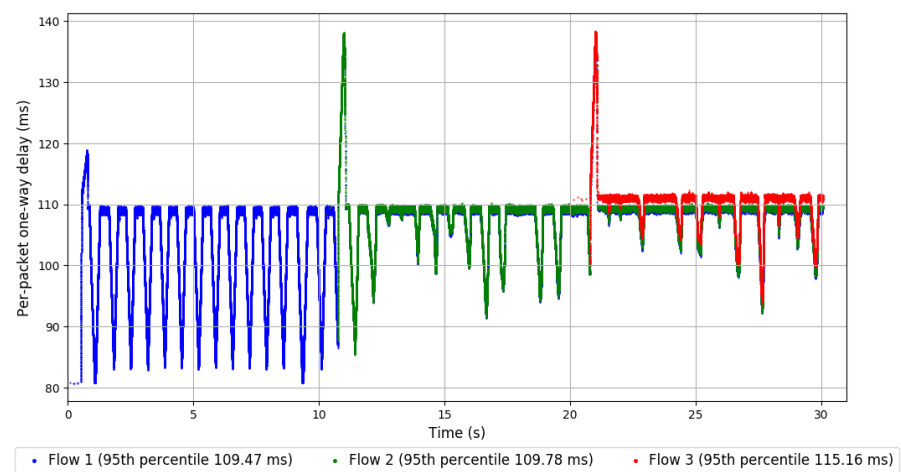
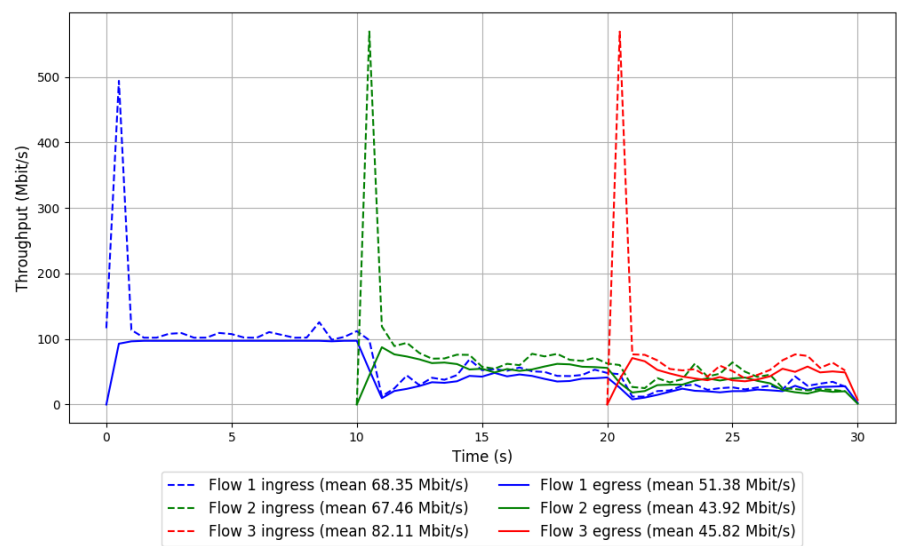


Run 3: Statistics of FillP

Start at: 2018-01-10 03:43:20  
End at: 2018-01-10 03:43:50  
Local clock offset: 2.557 ms  
Remote clock offset: -4.478 ms

# Below is generated by plot.py at 2018-01-10 07:07:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.80 Mbit/s  
95th percentile per-packet one-way delay: 111.312 ms  
Loss rate: 31.74%  
-- Flow 1:  
Average throughput: 51.38 Mbit/s  
95th percentile per-packet one-way delay: 109.475 ms  
Loss rate: 24.75%  
-- Flow 2:  
Average throughput: 43.92 Mbit/s  
95th percentile per-packet one-way delay: 109.783 ms  
Loss rate: 34.82%  
-- Flow 3:  
Average throughput: 45.82 Mbit/s  
95th percentile per-packet one-way delay: 115.159 ms  
Loss rate: 44.20%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-10 04:02:41

End at: 2018-01-10 04:03:11

Local clock offset: 2.772 ms

Remote clock offset: 0.738 ms

# Below is generated by plot.py at 2018-01-10 07:08:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.58 Mbit/s

95th percentile per-packet one-way delay: 116.475 ms

Loss rate: 31.58%

-- Flow 1:

Average throughput: 46.62 Mbit/s

95th percentile per-packet one-way delay: 116.088 ms

Loss rate: 24.70%

-- Flow 2:

Average throughput: 49.73 Mbit/s

95th percentile per-packet one-way delay: 116.119 ms

Loss rate: 31.86%

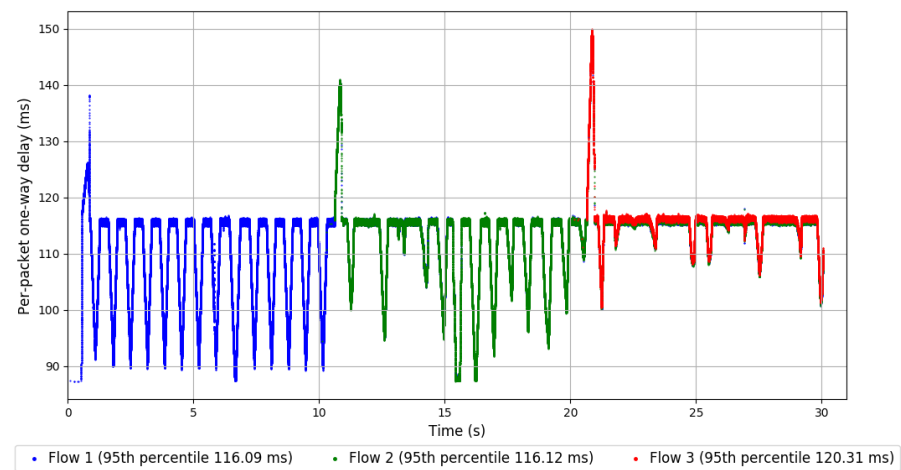
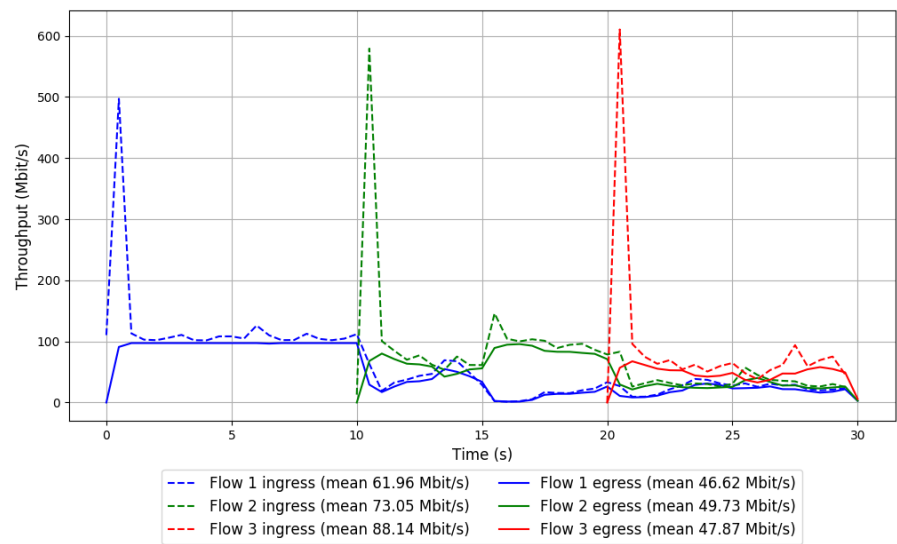
-- Flow 3:

Average throughput: 47.87 Mbit/s

95th percentile per-packet one-way delay: 120.308 ms

Loss rate: 45.71%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-10 04:22:21

End at: 2018-01-10 04:22:51

Local clock offset: 2.455 ms

Remote clock offset: 0.759 ms

# Below is generated by plot.py at 2018-01-10 07:08:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 115.969 ms

Loss rate: 31.68%

-- Flow 1:

Average throughput: 56.42 Mbit/s

95th percentile per-packet one-way delay: 115.979 ms

Loss rate: 23.86%

-- Flow 2:

Average throughput: 39.74 Mbit/s

95th percentile per-packet one-way delay: 115.821 ms

Loss rate: 35.10%

-- Flow 3:

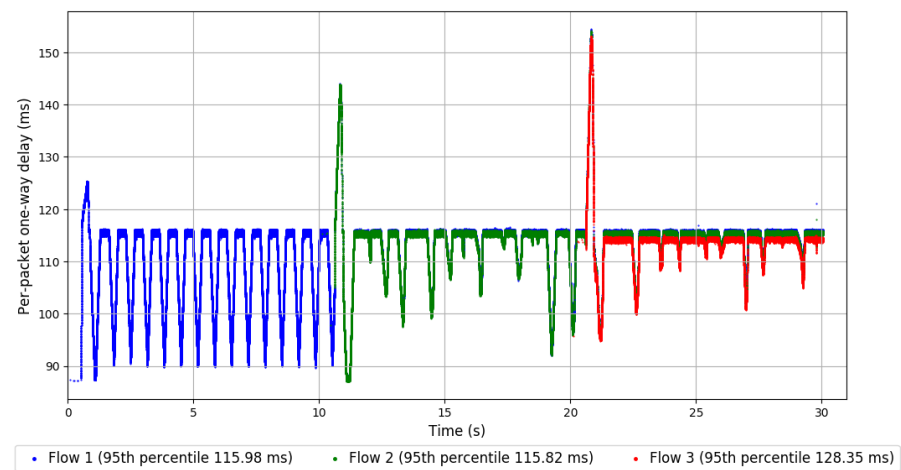
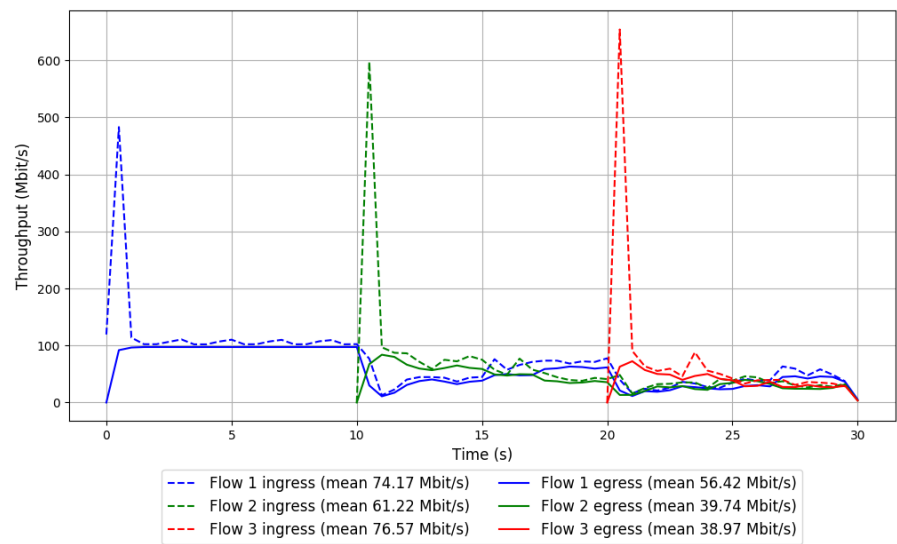
Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 128.350 ms

Loss rate: 49.02%



Run 5: Report of FillP — Data Link

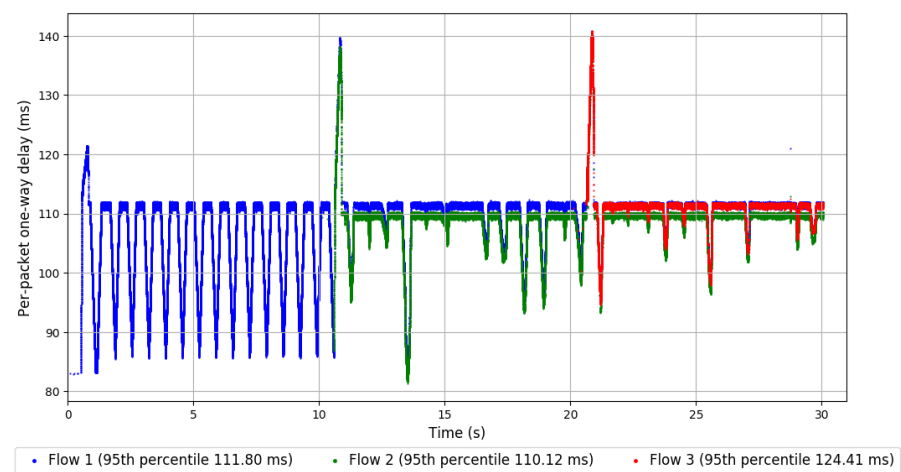
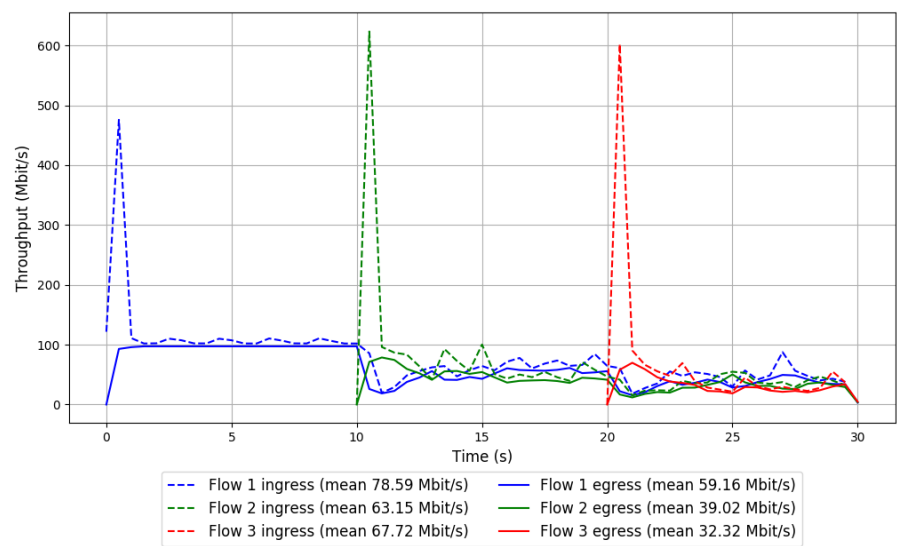


Run 6: Statistics of FillP

Start at: 2018-01-10 04:41:50  
End at: 2018-01-10 04:42:20  
Local clock offset: 2.561 ms  
Remote clock offset: -4.177 ms

# Below is generated by plot.py at 2018-01-10 07:09:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.81 Mbit/s  
95th percentile per-packet one-way delay: 111.795 ms  
Loss rate: 32.98%  
-- Flow 1:  
Average throughput: 59.16 Mbit/s  
95th percentile per-packet one-way delay: 111.797 ms  
Loss rate: 24.66%  
-- Flow 2:  
Average throughput: 39.02 Mbit/s  
95th percentile per-packet one-way delay: 110.123 ms  
Loss rate: 38.22%  
-- Flow 3:  
Average throughput: 32.32 Mbit/s  
95th percentile per-packet one-way delay: 124.411 ms  
Loss rate: 52.27%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-10 05:00:18

End at: 2018-01-10 05:00:48

Local clock offset: 2.704 ms

Remote clock offset: 0.83 ms

# Below is generated by plot.py at 2018-01-10 07:10:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.82 Mbit/s

95th percentile per-packet one-way delay: 116.397 ms

Loss rate: 32.92%

-- Flow 1:

Average throughput: 56.26 Mbit/s

95th percentile per-packet one-way delay: 116.405 ms

Loss rate: 24.28%

-- Flow 2:

Average throughput: 38.18 Mbit/s

95th percentile per-packet one-way delay: 114.731 ms

Loss rate: 39.02%

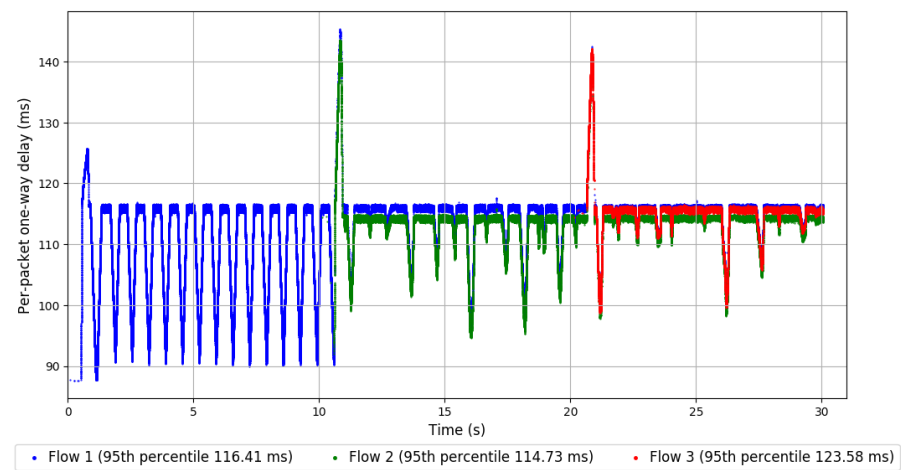
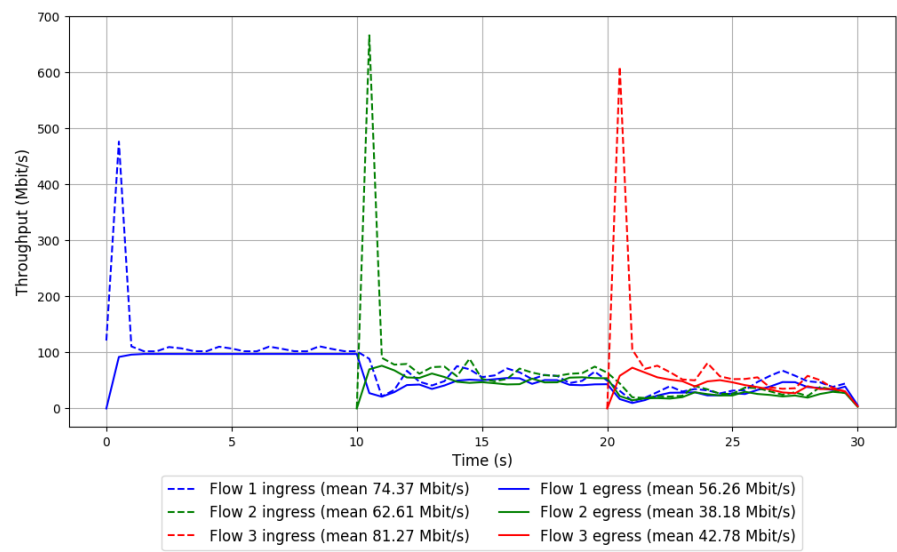
-- Flow 3:

Average throughput: 42.78 Mbit/s

95th percentile per-packet one-way delay: 123.576 ms

Loss rate: 47.35%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-10 05:19:46

End at: 2018-01-10 05:20:16

Local clock offset: 3.271 ms

Remote clock offset: 0.604 ms

# Below is generated by plot.py at 2018-01-10 07:10:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 115.885 ms

Loss rate: 32.45%

-- Flow 1:

Average throughput: 57.08 Mbit/s

95th percentile per-packet one-way delay: 115.889 ms

Loss rate: 24.50%

-- Flow 2:

Average throughput: 41.33 Mbit/s

95th percentile per-packet one-way delay: 114.596 ms

Loss rate: 36.76%

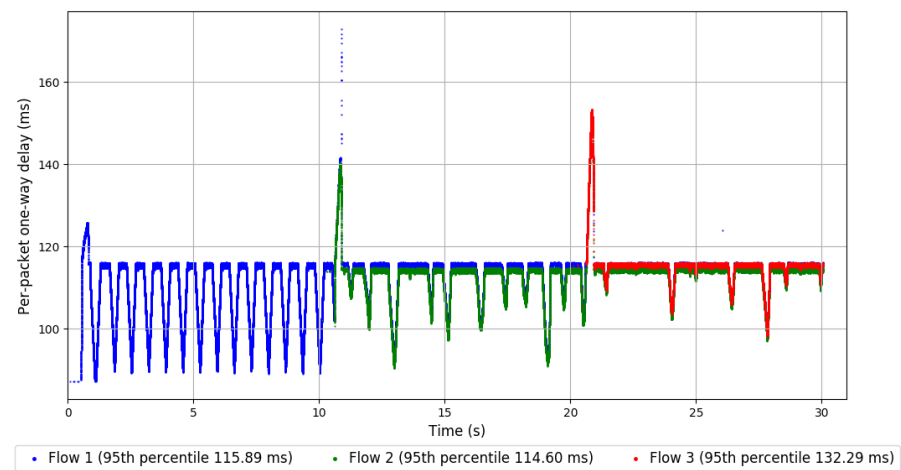
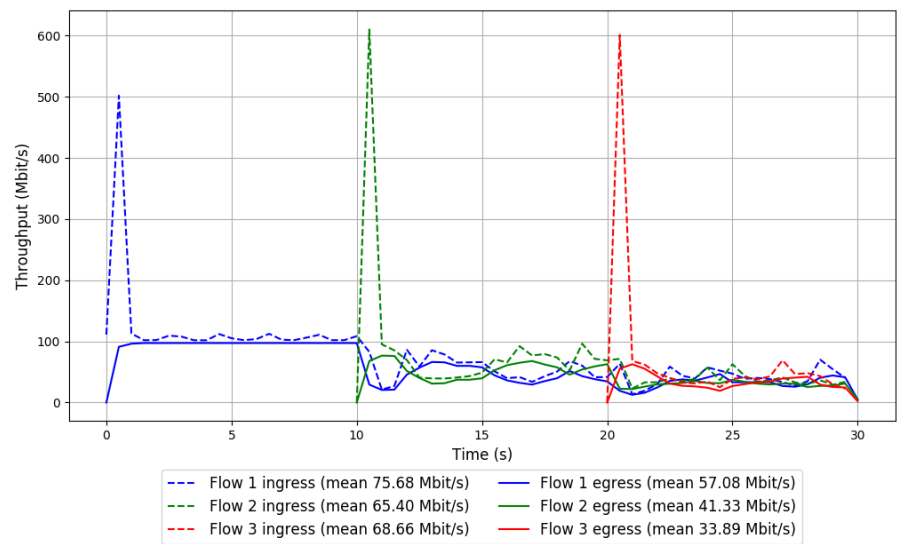
-- Flow 3:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 132.294 ms

Loss rate: 50.64%

Run 8: Report of FillP — Data Link



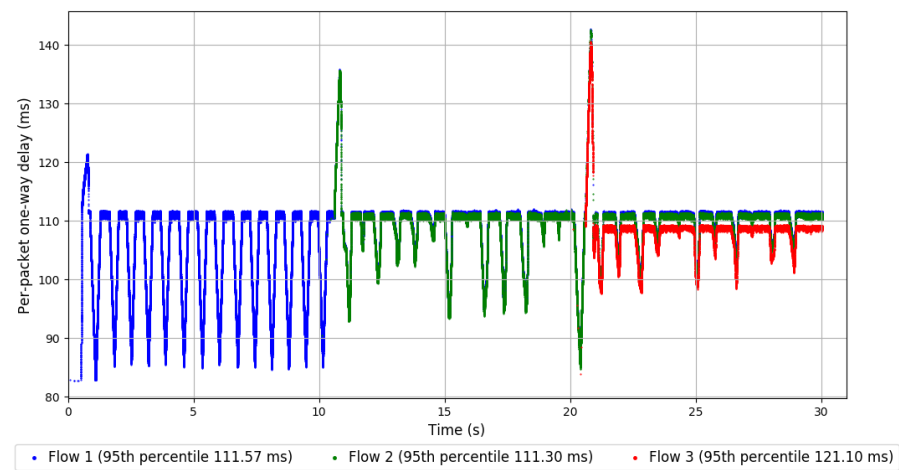
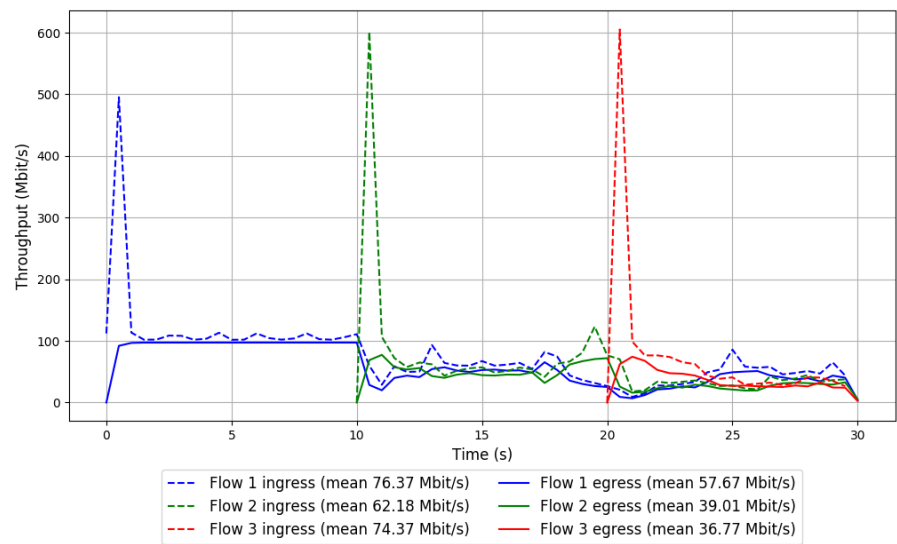
Run 9: Statistics of FillP

Start at: 2018-01-10 05:39:09  
End at: 2018-01-10 05:39:39  
Local clock offset: 3.788 ms  
Remote clock offset: -4.217 ms

# Below is generated by plot.py at 2018-01-10 07:10:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.81 Mbit/s  
95th percentile per-packet one-way delay: 111.561 ms  
Loss rate: 32.65%  
-- Flow 1:  
Average throughput: 57.67 Mbit/s  
95th percentile per-packet one-way delay: 111.570 ms  
Loss rate: 24.41%  
-- Flow 2:  
Average throughput: 39.01 Mbit/s  
95th percentile per-packet one-way delay: 111.301 ms  
Loss rate: 37.21%  
-- Flow 3:  
Average throughput: 36.77 Mbit/s  
95th percentile per-packet one-way delay: 121.100 ms  
Loss rate: 50.56%



Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-10 05:58:39

End at: 2018-01-10 05:59:09

Local clock offset: 4.129 ms

Remote clock offset: -3.94 ms

# Below is generated by plot.py at 2018-01-10 07:11:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.83 Mbit/s

95th percentile per-packet one-way delay: 111.462 ms

Loss rate: 31.10%

-- Flow 1:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 110.960 ms

Loss rate: 23.37%

-- Flow 2:

Average throughput: 35.14 Mbit/s

95th percentile per-packet one-way delay: 111.596 ms

Loss rate: 37.16%

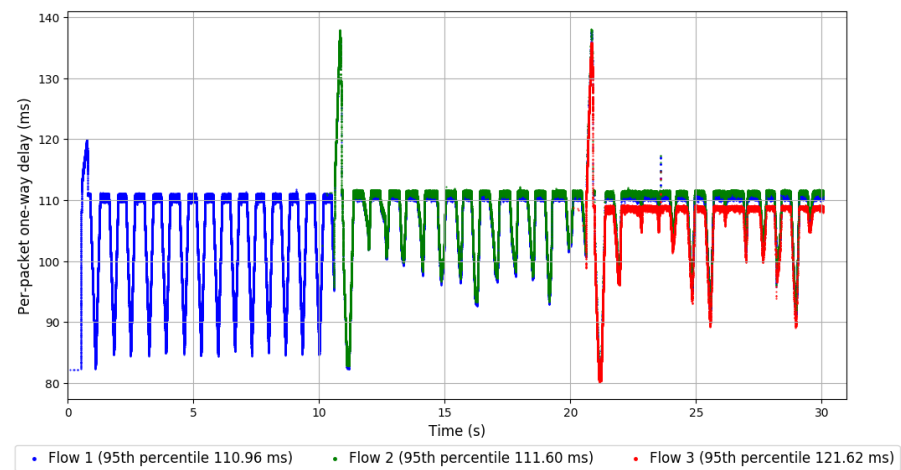
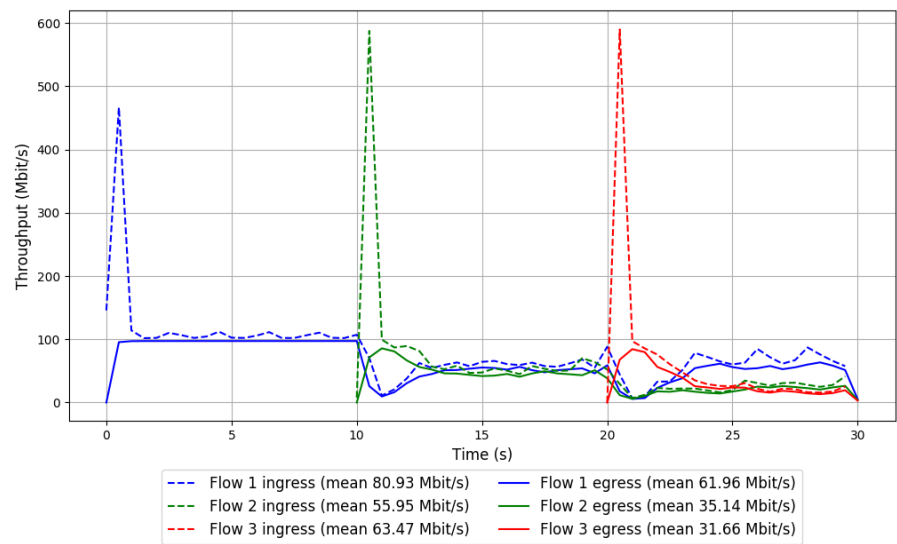
-- Flow 3:

Average throughput: 31.66 Mbit/s

95th percentile per-packet one-way delay: 121.616 ms

Loss rate: 50.11%

Run 10: Report of FillP — Data Link

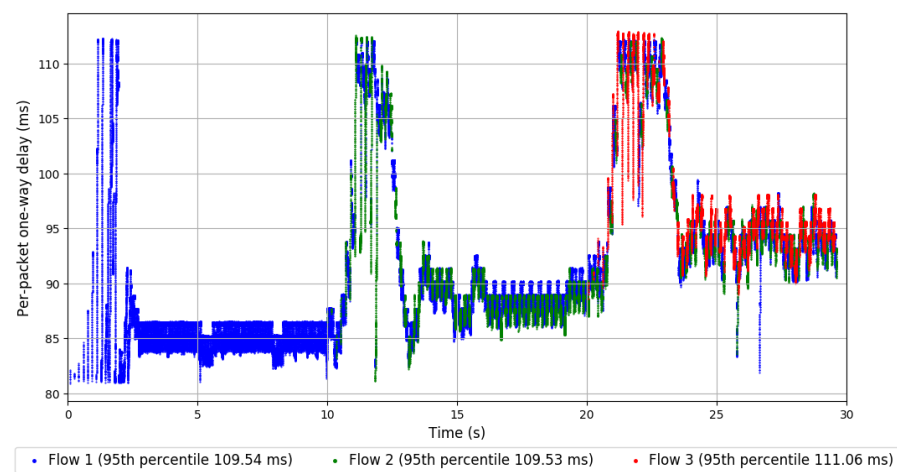
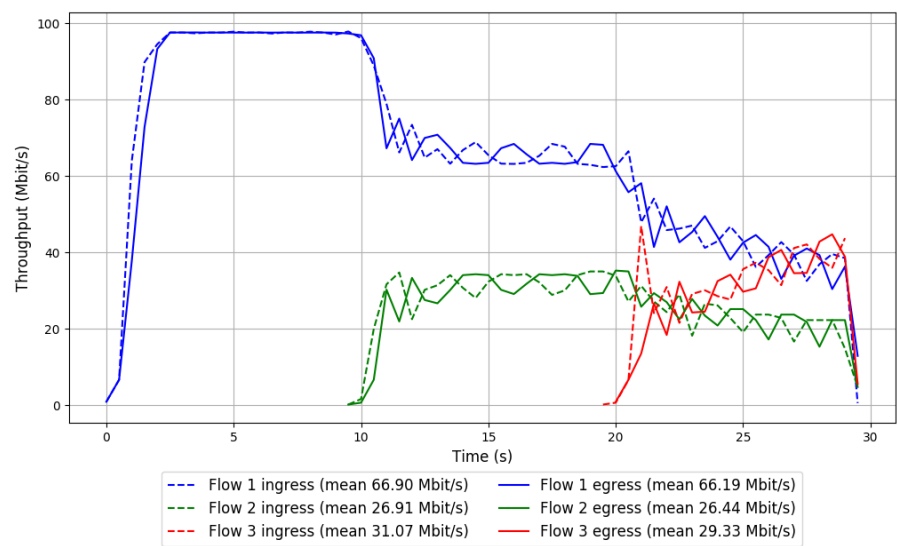


```
Run 1: Statistics of Indigo

Start at: 2018-01-10 03:12:04
End at: 2018-01-10 03:12:34
Local clock offset: 2.071 ms
Remote clock offset: -4.184 ms

# Below is generated by plot.py at 2018-01-10 07:11:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.11 Mbit/s
95th percentile per-packet one-way delay: 109.831 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 66.19 Mbit/s
95th percentile per-packet one-way delay: 109.536 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 26.44 Mbit/s
95th percentile per-packet one-way delay: 109.529 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 111.064 ms
Loss rate: 5.53%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-10 03:31:33

End at: 2018-01-10 03:32:03

Local clock offset: 2.43 ms

Remote clock offset: -4.175 ms

Run 2: Report of Indigo — Data Link

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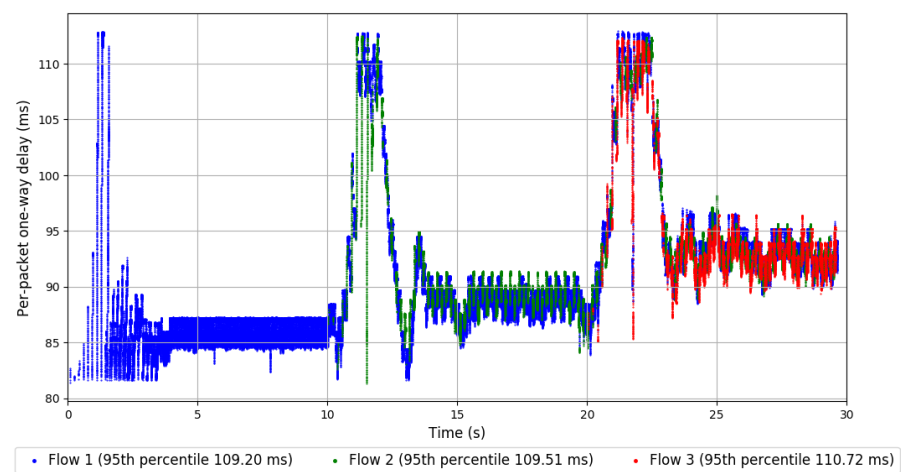
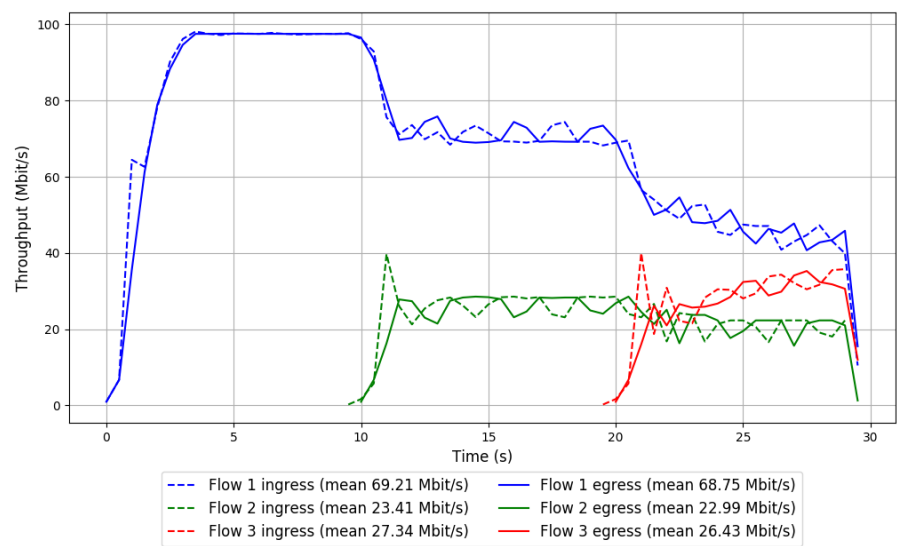
Run 3: Statistics of Indigo

Start at: 2018-01-10 03:51:11  
End at: 2018-01-10 03:51:41  
Local clock offset: 2.671 ms  
Remote clock offset: -4.104 ms

# Below is generated by plot.py at 2018-01-10 07:11:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.42 Mbit/s  
95th percentile per-packet one-way delay: 109.616 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 68.75 Mbit/s  
95th percentile per-packet one-way delay: 109.198 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 22.99 Mbit/s  
95th percentile per-packet one-way delay: 109.510 ms  
Loss rate: 1.77%  
-- Flow 3:  
Average throughput: 26.43 Mbit/s  
95th percentile per-packet one-way delay: 110.724 ms  
Loss rate: 3.29%



Run 3: Report of Indigo — Data Link

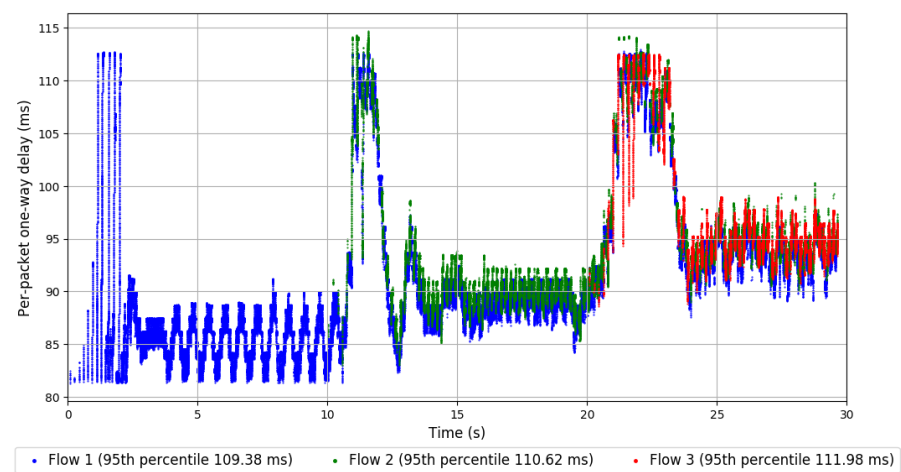
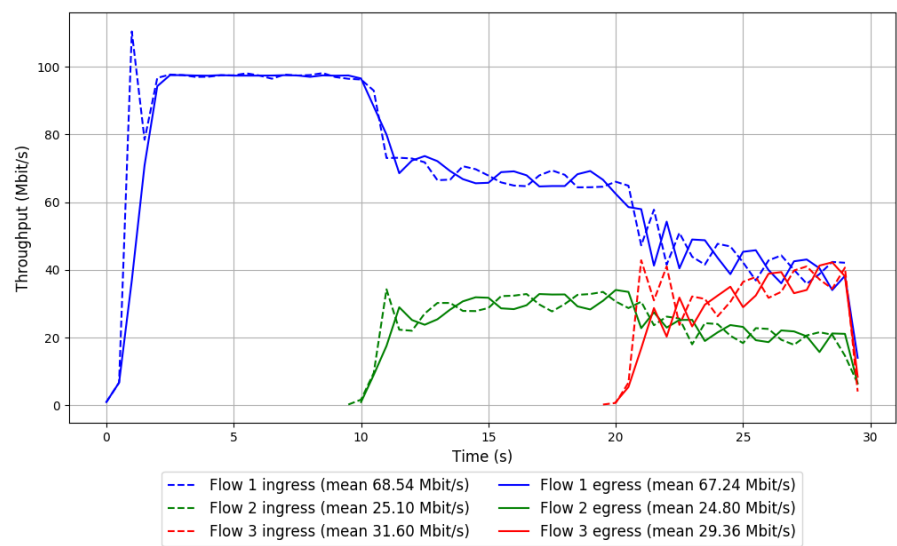


Run 4: Statistics of Indigo

Start at: 2018-01-10 04:10:31  
End at: 2018-01-10 04:11:01  
Local clock offset: 2.664 ms  
Remote clock offset: -3.901 ms

# Below is generated by plot.py at 2018-01-10 07:11:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.06 Mbit/s  
95th percentile per-packet one-way delay: 109.884 ms  
Loss rate: 2.28%  
-- Flow 1:  
Average throughput: 67.24 Mbit/s  
95th percentile per-packet one-way delay: 109.376 ms  
Loss rate: 1.85%  
-- Flow 2:  
Average throughput: 24.80 Mbit/s  
95th percentile per-packet one-way delay: 110.624 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 29.36 Mbit/s  
95th percentile per-packet one-way delay: 111.985 ms  
Loss rate: 7.01%

Run 4: Report of Indigo — Data Link

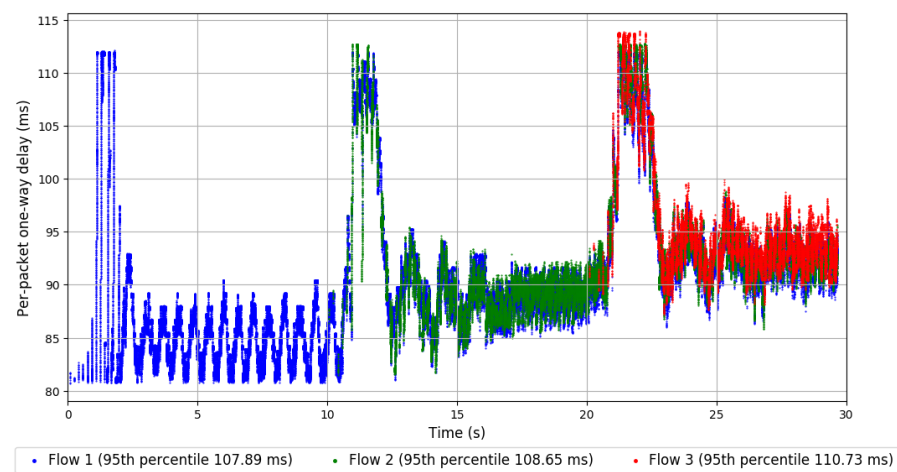
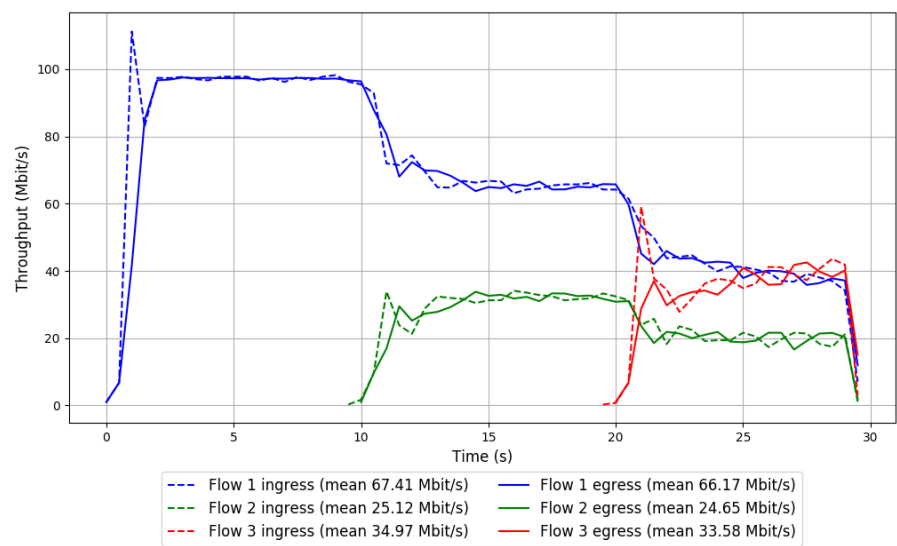


Run 5: Statistics of Indigo

Start at: 2018-01-10 04:30:16  
End at: 2018-01-10 04:30:46  
Local clock offset: 2.44 ms  
Remote clock offset: -4.362 ms

# Below is generated by plot.py at 2018-01-10 07:11:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.36 Mbit/s  
95th percentile per-packet one-way delay: 108.104 ms  
Loss rate: 2.05%  
-- Flow 1:  
Average throughput: 66.17 Mbit/s  
95th percentile per-packet one-way delay: 107.890 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 24.65 Mbit/s  
95th percentile per-packet one-way delay: 108.648 ms  
Loss rate: 1.82%  
-- Flow 3:  
Average throughput: 33.58 Mbit/s  
95th percentile per-packet one-way delay: 110.732 ms  
Loss rate: 3.93%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-10 04:48:41

End at: 2018-01-10 04:49:11

Local clock offset: 2.538 ms

# Below is generated by plot.py at 2018-01-10 07:12:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 117.518 ms

Loss rate: 2.69%

-- Flow 1:

Average throughput: 64.94 Mbit/s

95th percentile per-packet one-way delay: 116.721 ms

Loss rate: 1.72%

-- Flow 2:

Average throughput: 27.34 Mbit/s

95th percentile per-packet one-way delay: 119.385 ms

Loss rate: 5.29%

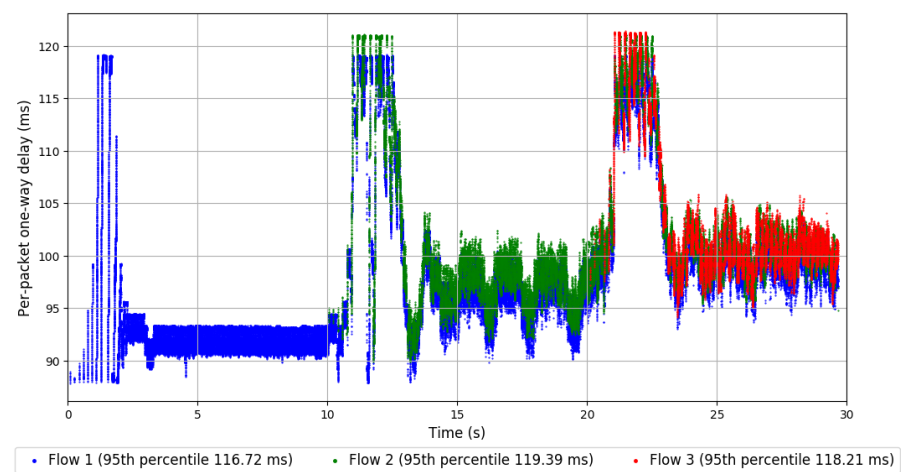
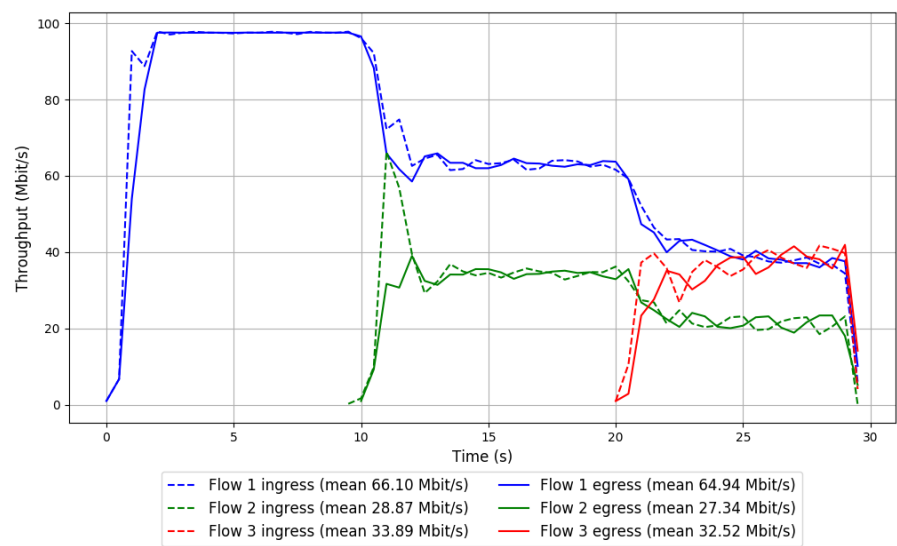
-- Flow 3:

Average throughput: 32.52 Mbit/s

95th percentile per-packet one-way delay: 118.214 ms

Loss rate: 4.00%

Run 6: Report of Indigo — Data Link



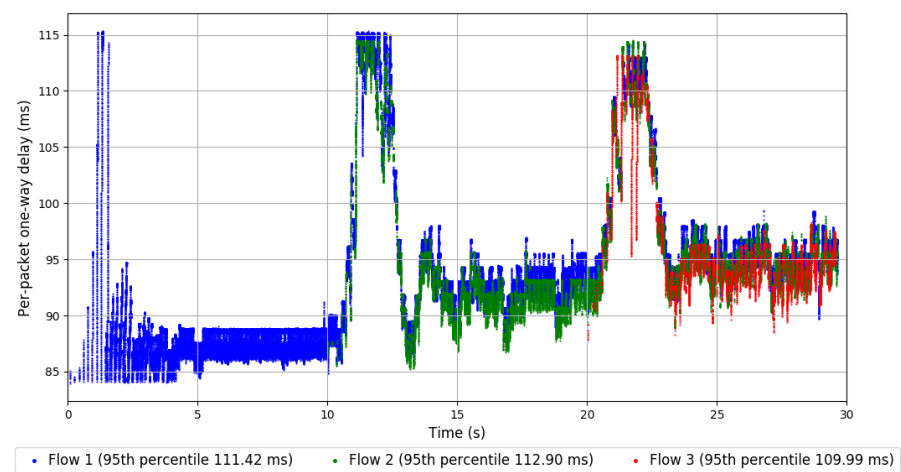
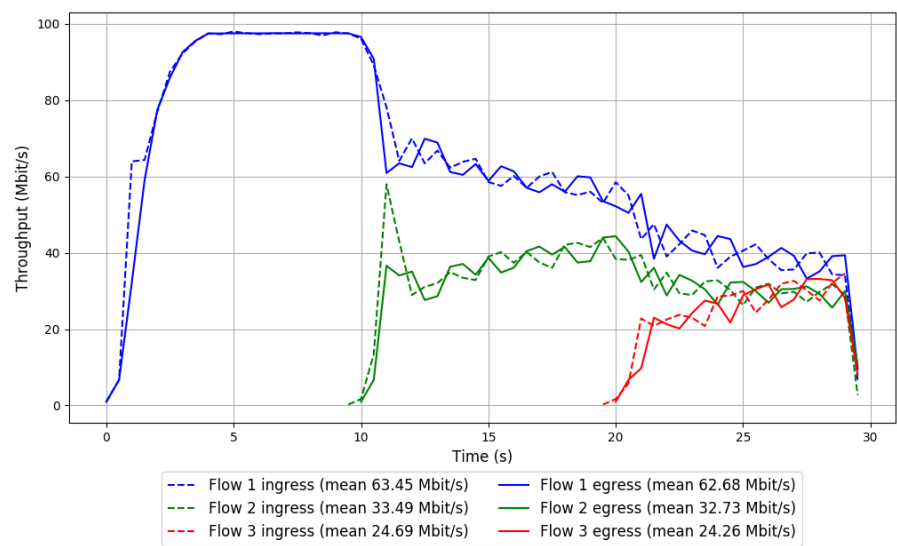
Run 7: Statistics of Indigo

Start at: 2018-01-10 05:08:10  
End at: 2018-01-10 05:08:40  
Local clock offset: 2.946 ms  
Remote clock offset: -3.474 ms

# Below is generated by plot.py at 2018-01-10 07:12:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.21 Mbit/s  
95th percentile per-packet one-way delay: 111.619 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 62.68 Mbit/s  
95th percentile per-packet one-way delay: 111.416 ms  
Loss rate: 1.17%  
-- Flow 2:  
Average throughput: 32.73 Mbit/s  
95th percentile per-packet one-way delay: 112.897 ms  
Loss rate: 2.26%  
-- Flow 3:  
Average throughput: 24.26 Mbit/s  
95th percentile per-packet one-way delay: 109.993 ms  
Loss rate: 1.66%



Run 7: Report of Indigo — Data Link

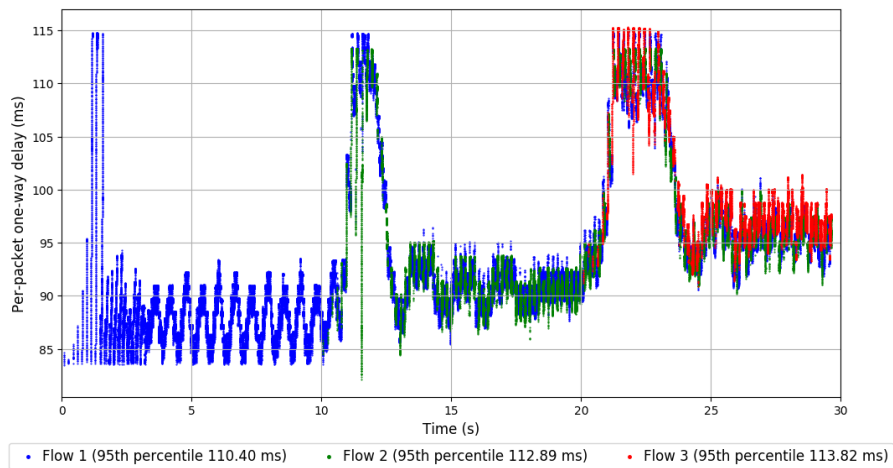
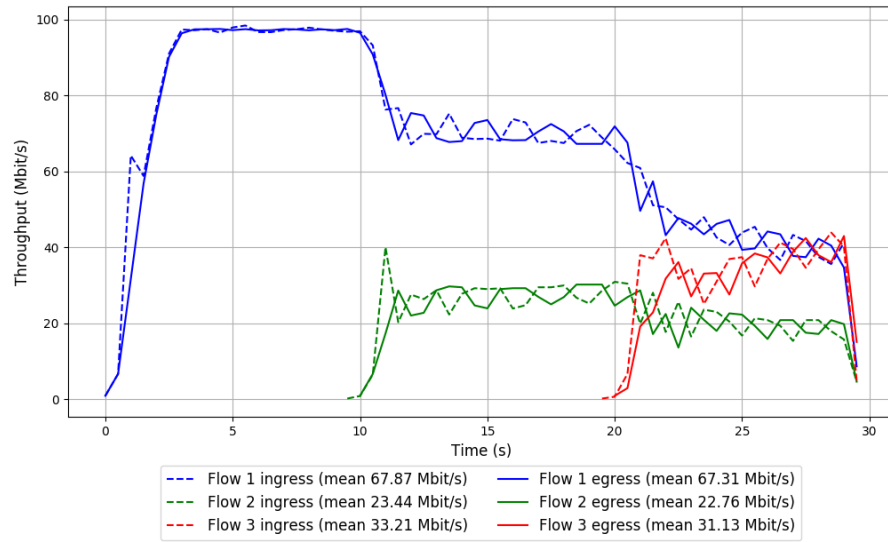


Run 8: Statistics of Indigo

Start at: 2018-01-10 05:27:38  
End at: 2018-01-10 05:28:08  
Local clock offset: 3.474 ms  
Remote clock offset: -3.227 ms

# Below is generated by plot.py at 2018-01-10 07:12:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.25 Mbit/s  
95th percentile per-packet one-way delay: 111.232 ms  
Loss rate: 1.75%  
-- Flow 1:  
Average throughput: 67.31 Mbit/s  
95th percentile per-packet one-way delay: 110.401 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 22.76 Mbit/s  
95th percentile per-packet one-way delay: 112.889 ms  
Loss rate: 2.84%  
-- Flow 3:  
Average throughput: 31.13 Mbit/s  
95th percentile per-packet one-way delay: 113.822 ms  
Loss rate: 6.22%

## Run 8: Report of Indigo — Data Link

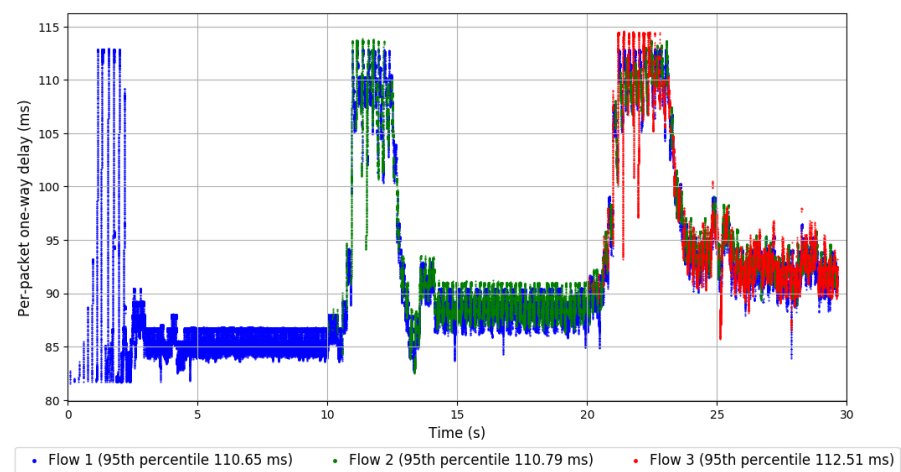
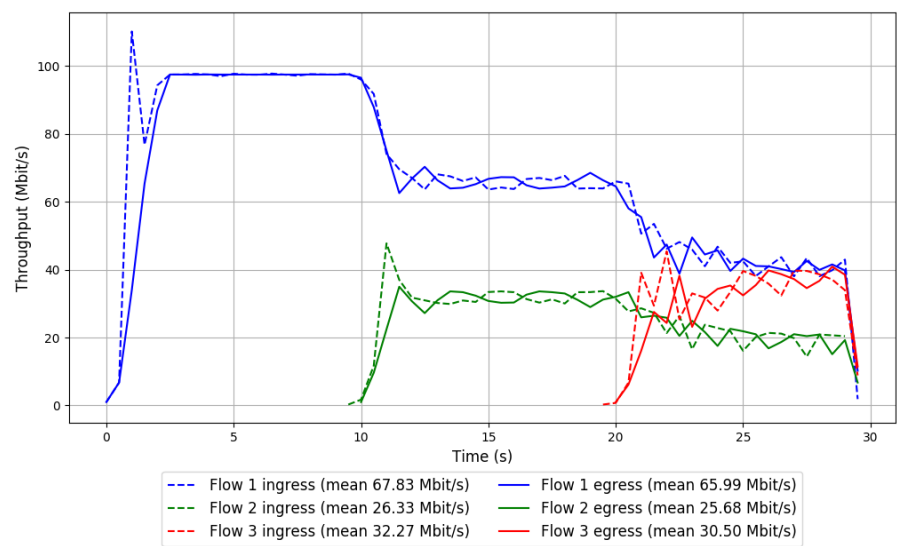


Run 9: Statistics of Indigo

Start at: 2018-01-10 05:47:03  
End at: 2018-01-10 05:47:33  
Local clock offset: 3.98 ms  
Remote clock offset: -3.706 ms

# Below is generated by plot.py at 2018-01-10 07:12:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.82 Mbit/s  
95th percentile per-packet one-way delay: 110.981 ms  
Loss rate: 2.95%  
-- Flow 1:  
Average throughput: 65.99 Mbit/s  
95th percentile per-packet one-way delay: 110.652 ms  
Loss rate: 2.68%  
-- Flow 2:  
Average throughput: 25.68 Mbit/s  
95th percentile per-packet one-way delay: 110.794 ms  
Loss rate: 2.45%  
-- Flow 3:  
Average throughput: 30.50 Mbit/s  
95th percentile per-packet one-way delay: 112.509 ms  
Loss rate: 5.46%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-10 06:06:31

End at: 2018-01-10 06:07:01

Local clock offset: 4.209 ms

Remote clock offset: 1.448 ms

# Below is generated by plot.py at 2018-01-10 07:12:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.44 Mbit/s

95th percentile per-packet one-way delay: 114.720 ms

Loss rate: 2.13%

-- Flow 1:

Average throughput: 62.79 Mbit/s

95th percentile per-packet one-way delay: 114.639 ms

Loss rate: 1.41%

-- Flow 2:

Average throughput: 32.51 Mbit/s

95th percentile per-packet one-way delay: 115.013 ms

Loss rate: 4.11%

-- Flow 3:

Average throughput: 24.97 Mbit/s

95th percentile per-packet one-way delay: 114.998 ms

Loss rate: 2.19%

# Run 10: Report of Indigo — Data Link

