

## Pantheon Report

Generated at 2018-01-17 07:33:00 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

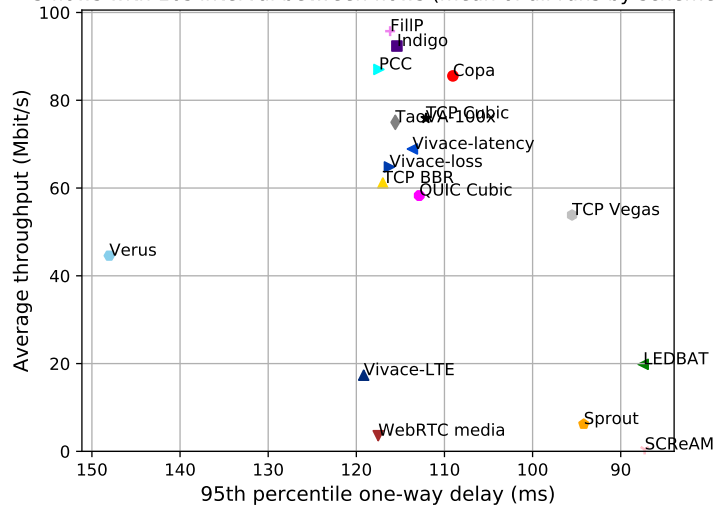
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

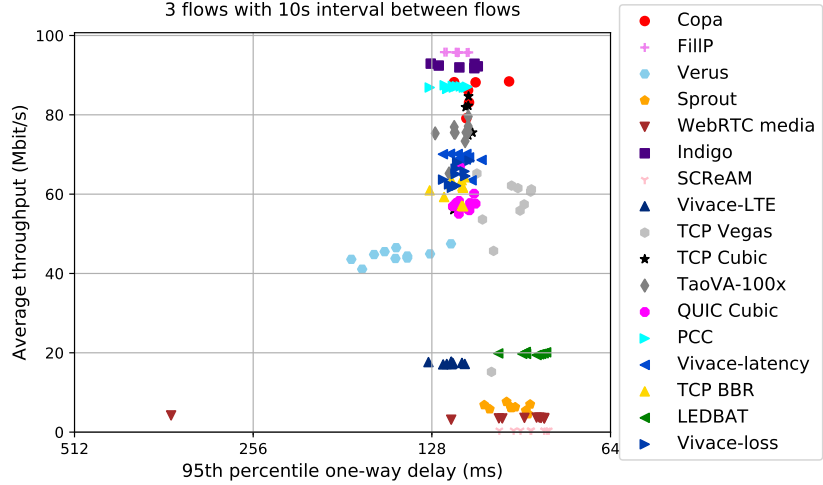
Git summary:

```
branch: master @ 386976fcf771de1359acd909bfbb98a156d79009
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/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
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





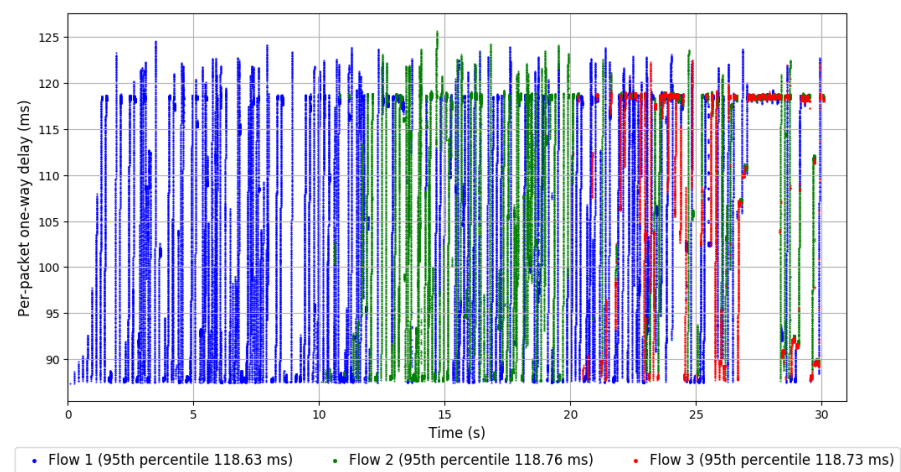
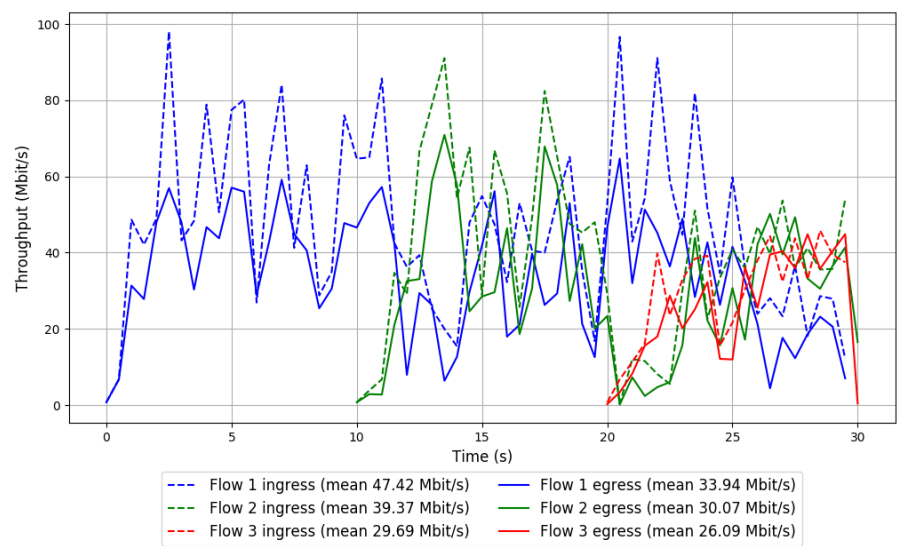
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	34.50	28.25	24.29	116.63	116.27	116.90	28.05	29.24	24.76
TCP Cubic	6	39.21	44.15	22.93	381.07	112.65	114.38	0.37	0.61	1.10
LEDBAT	10	12.87	8.44	4.11	87.26	87.14	87.11	0.00	0.01	0.00
PCC	10	78.43	8.99	7.94	117.39	118.08	117.78	2.70	4.88	6.05
QUIC Cubic	10	38.90	21.97	14.63	113.08	111.03	109.71	0.74	0.53	1.65
SCReAM	9	0.22	0.22	0.22	86.80	86.81	86.29	0.00	0.00	0.00
WebRTC media	10	2.14	1.16	0.29	140.07	125.32	108.95	0.00	0.00	0.00
Sprout	10	3.33	2.98	2.75	93.94	93.84	93.88	0.00	0.00	0.00
TaoVA-100x	10	46.03	34.17	25.45	115.30	115.70	115.81	3.95	7.41	10.26
TCP Vegas	10	23.69	30.11	30.32	195.51	95.96	97.86	0.44	0.84	1.54
Verus	10	25.26	25.93	9.18	136.88	142.88	122.25	48.62	56.12	32.73
Copa	6	68.43	21.45	11.85	108.92	103.07	101.49	0.20	0.25	0.01
FillP	10	53.67	42.75	41.40	115.42	114.92	125.85	25.40	35.95	47.13
Indigo	6	65.31	27.69	27.14	114.71	116.40	117.10	1.19	2.85	6.14
Vivace-latency	10	57.73	13.43	6.83	113.80	112.34	109.02	0.46	0.58	0.09
Vivace-loss	10	46.05	21.81	12.78	116.08	116.30	115.54	4.50	4.24	5.47
Vivace-LTE	10	5.93	8.69	17.15	119.04	118.71	118.50	21.95	22.50	22.80

Run 1: Statistics of TCP BBR

Start at: 2018-01-17 02:59:49  
End at: 2018-01-17 03:00:19  
Local clock offset: 1.076 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-01-17 07:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.45 Mbit/s  
95th percentile per-packet one-way delay: 118.740 ms  
Loss rate: 24.89%  
-- Flow 1:  
Average throughput: 33.94 Mbit/s  
95th percentile per-packet one-way delay: 118.631 ms  
Loss rate: 28.34%  
-- Flow 2:  
Average throughput: 30.07 Mbit/s  
95th percentile per-packet one-way delay: 118.761 ms  
Loss rate: 23.51%  
-- Flow 3:  
Average throughput: 26.09 Mbit/s  
95th percentile per-packet one-way delay: 118.735 ms  
Loss rate: 12.06%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-17 03:23:01

End at: 2018-01-17 03:23:31

Local clock offset: 0.975 ms

Remote clock offset: -6.47 ms

# Below is generated by plot.py at 2018-01-17 07:12:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 113.378 ms

Loss rate: 29.85%

-- Flow 1:

Average throughput: 34.33 Mbit/s

95th percentile per-packet one-way delay: 113.455 ms

Loss rate: 29.91%

-- Flow 2:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 111.143 ms

Loss rate: 31.60%

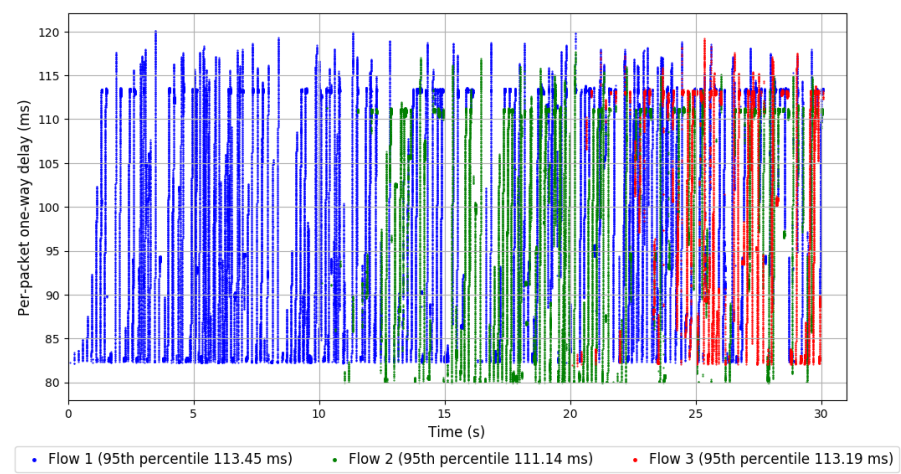
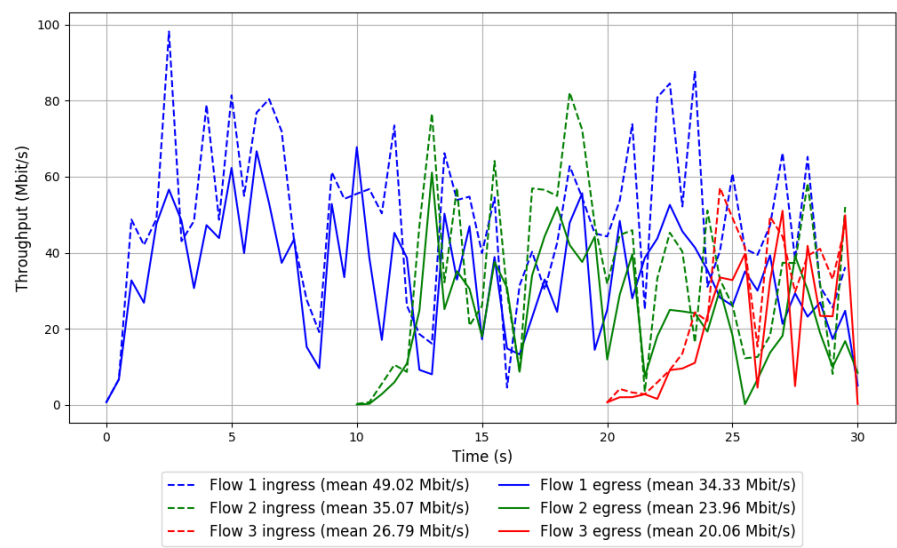
-- Flow 3:

Average throughput: 20.06 Mbit/s

95th percentile per-packet one-way delay: 113.192 ms

Loss rate: 24.92%

Run 2: Report of TCP BBR — Data Link

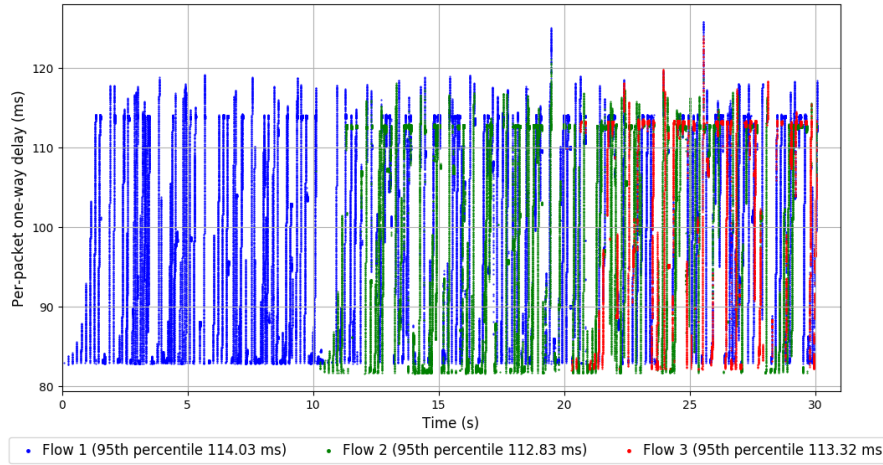
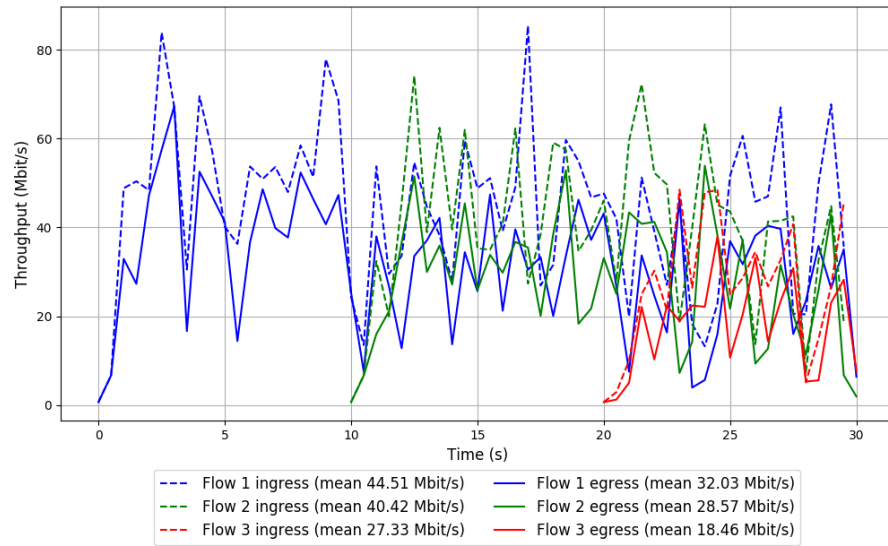


Run 3: Statistics of TCP BBR

Start at: 2018-01-17 03:46:17  
End at: 2018-01-17 03:46:48  
Local clock offset: 0.888 ms  
Remote clock offset: -5.858 ms

# Below is generated by plot.py at 2018-01-17 07:12:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.10 Mbit/s  
95th percentile per-packet one-way delay: 113.976 ms  
Loss rate: 28.93%  
-- Flow 1:  
Average throughput: 32.03 Mbit/s  
95th percentile per-packet one-way delay: 114.033 ms  
Loss rate: 27.98%  
-- Flow 2:  
Average throughput: 28.57 Mbit/s  
95th percentile per-packet one-way delay: 112.831 ms  
Loss rate: 29.30%  
-- Flow 3:  
Average throughput: 18.46 Mbit/s  
95th percentile per-packet one-way delay: 113.324 ms  
Loss rate: 32.47%

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



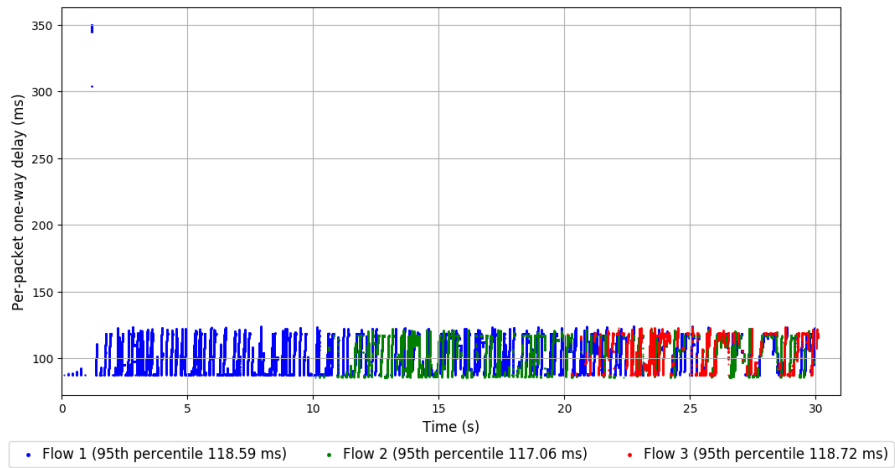
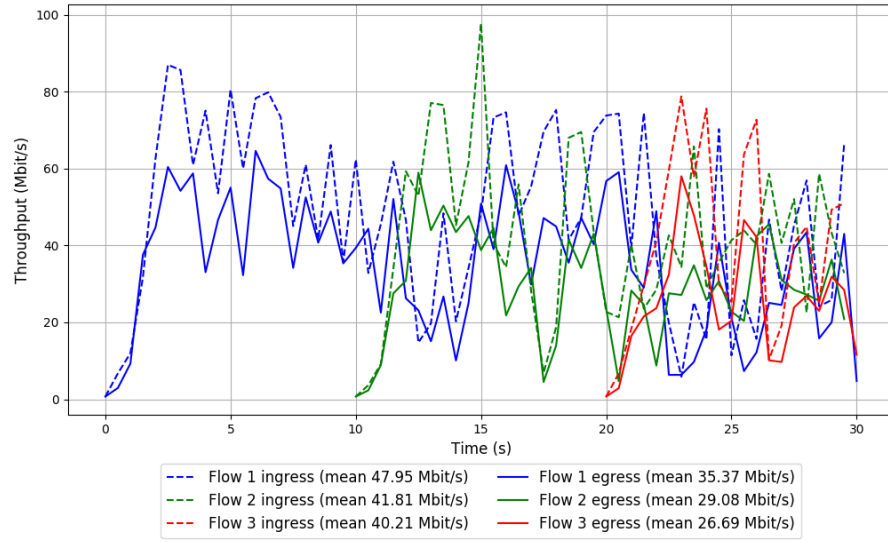
Run 4: Statistics of TCP BBR

Start at: 2018-01-17 04:09:29  
End at: 2018-01-17 04:09:59  
Local clock offset: 0.88 ms  
Remote clock offset: -0.719 ms

# Below is generated by plot.py at 2018-01-17 07:12:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.44 Mbit/s  
95th percentile per-packet one-way delay: 118.590 ms  
Loss rate: 28.59%  
-- Flow 1:  
Average throughput: 35.37 Mbit/s  
95th percentile per-packet one-way delay: 118.589 ms  
Loss rate: 26.16%  
-- Flow 2:  
Average throughput: 29.08 Mbit/s  
95th percentile per-packet one-way delay: 117.057 ms  
Loss rate: 30.37%  
-- Flow 3:  
Average throughput: 26.69 Mbit/s  
95th percentile per-packet one-way delay: 118.722 ms  
Loss rate: 33.63%



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



Run 5: Statistics of TCP BBR

Start at: 2018-01-17 04:32:53

End at: 2018-01-17 04:33:23

Local clock offset: 0.81 ms

Remote clock offset: 3.549 ms

# Below is generated by plot.py at 2018-01-17 07:12:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.28 Mbit/s

95th percentile per-packet one-way delay: 122.070 ms

Loss rate: 25.74%

-- Flow 1:

Average throughput: 33.10 Mbit/s

95th percentile per-packet one-way delay: 122.073 ms

Loss rate: 23.08%

-- Flow 2:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 121.594 ms

Loss rate: 27.29%

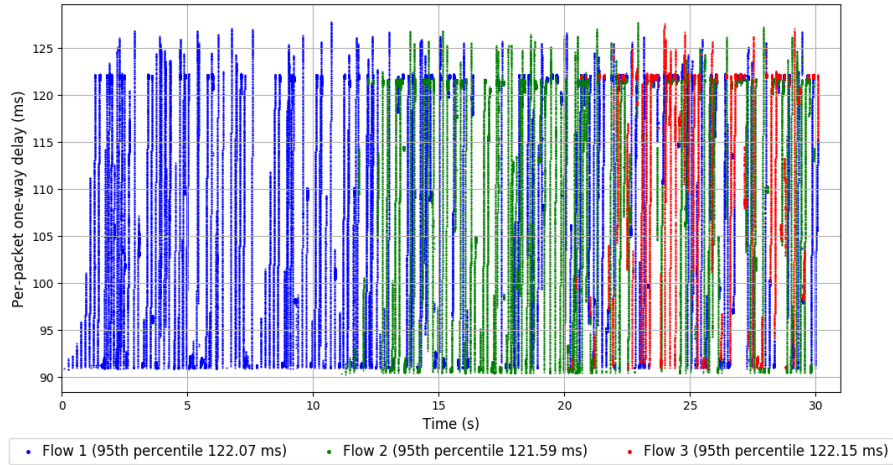
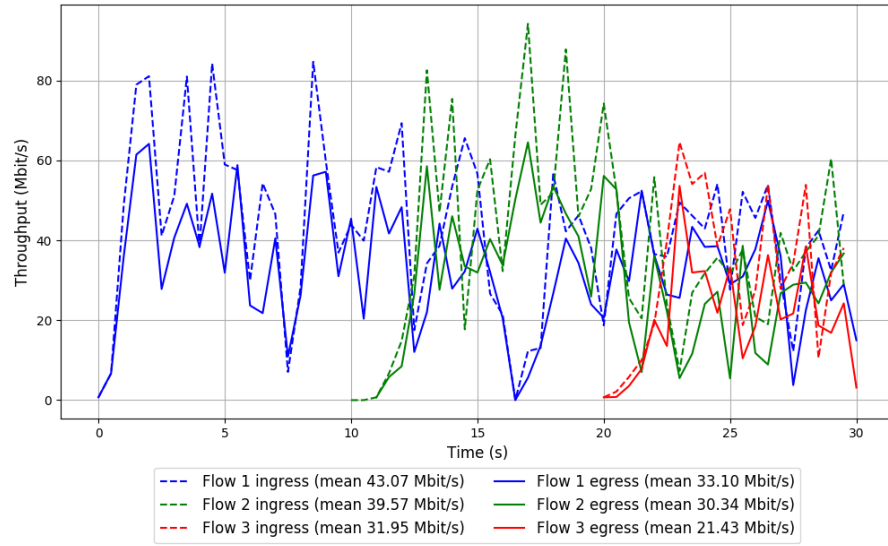
-- Flow 3:

Average throughput: 21.43 Mbit/s

95th percentile per-packet one-way delay: 122.146 ms

Loss rate: 32.71%

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



Run 6: Statistics of TCP BBR

Start at: 2018-01-17 04:56:17

End at: 2018-01-17 04:56:47

Local clock offset: 0.746 ms

Remote clock offset: 9.044 ms

# Below is generated by plot.py at 2018-01-17 07:12:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.96 Mbit/s

95th percentile per-packet one-way delay: 129.102 ms

Loss rate: 28.68%

-- Flow 1:

Average throughput: 34.04 Mbit/s

95th percentile per-packet one-way delay: 129.133 ms

Loss rate: 28.74%

-- Flow 2:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 128.961 ms

Loss rate: 31.22%

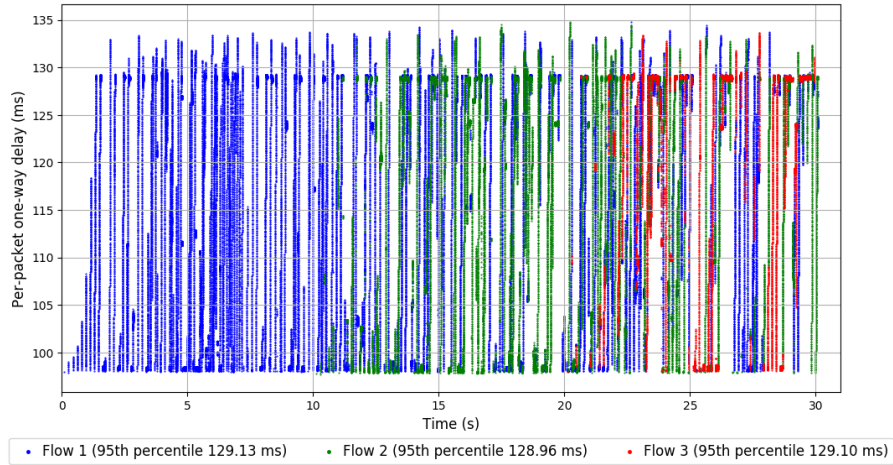
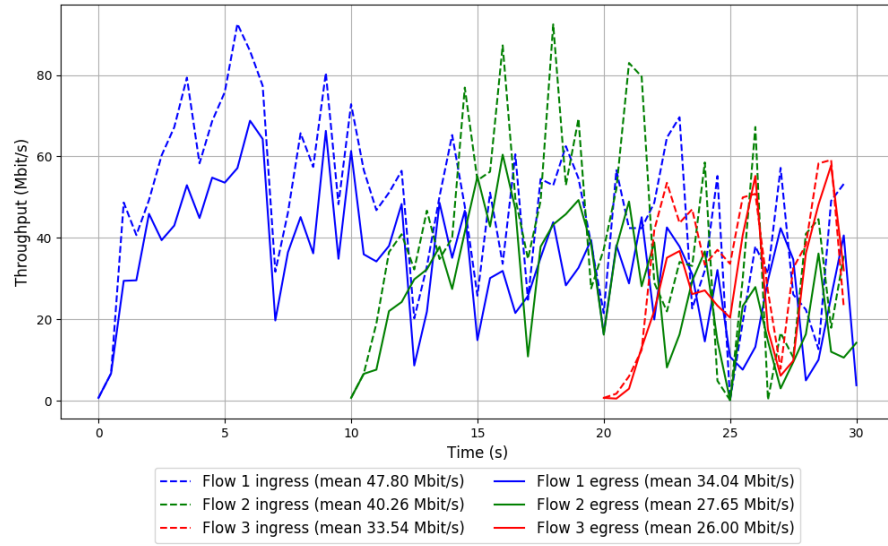
-- Flow 3:

Average throughput: 26.00 Mbit/s

95th percentile per-packet one-way delay: 129.105 ms

Loss rate: 22.23%

# Run 6: Report of TCP BBR — Data Link

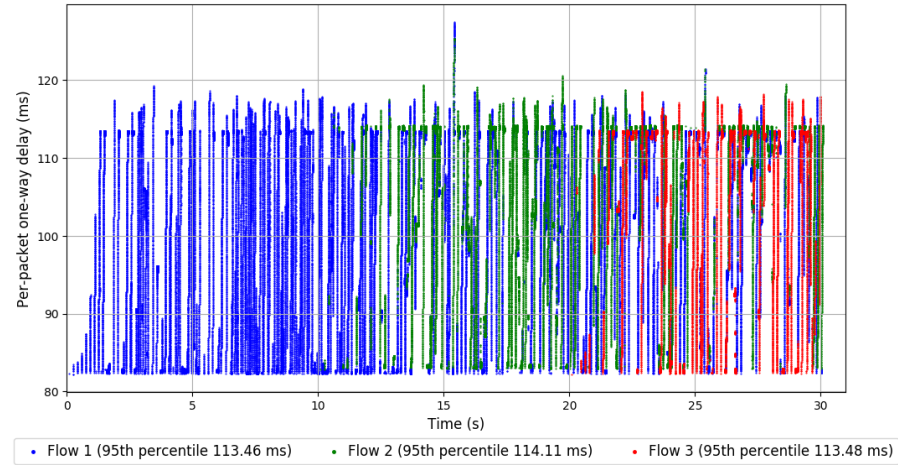
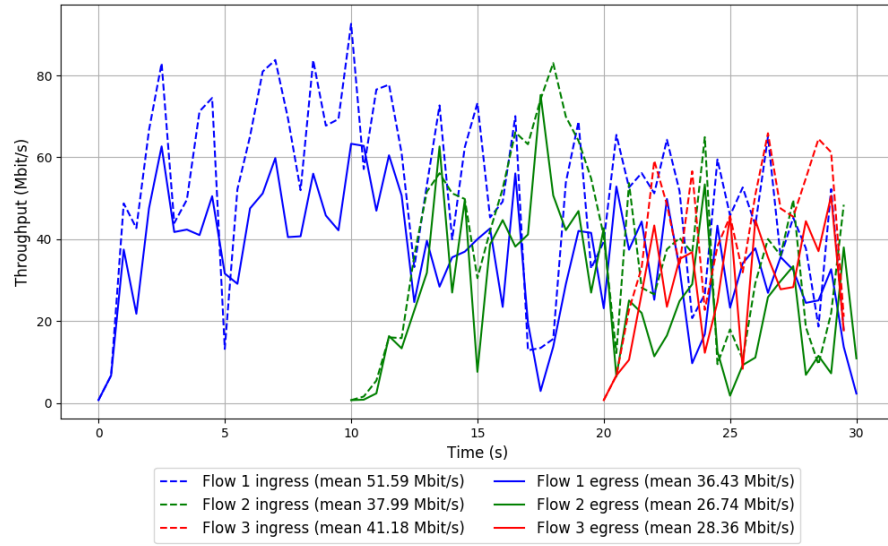


Run 7: Statistics of TCP BBR

Start at: 2018-01-17 05:19:36  
End at: 2018-01-17 05:20:06  
Local clock offset: 0.629 ms  
Remote clock offset: -5.013 ms

# Below is generated by plot.py at 2018-01-17 07:12:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.51 Mbit/s  
95th percentile per-packet one-way delay: 114.041 ms  
Loss rate: 29.65%  
-- Flow 1:  
Average throughput: 36.43 Mbit/s  
95th percentile per-packet one-way delay: 113.464 ms  
Loss rate: 29.39%  
-- Flow 2:  
Average throughput: 26.74 Mbit/s  
95th percentile per-packet one-way delay: 114.110 ms  
Loss rate: 29.51%  
-- Flow 3:  
Average throughput: 28.36 Mbit/s  
95th percentile per-packet one-way delay: 113.484 ms  
Loss rate: 30.88%

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



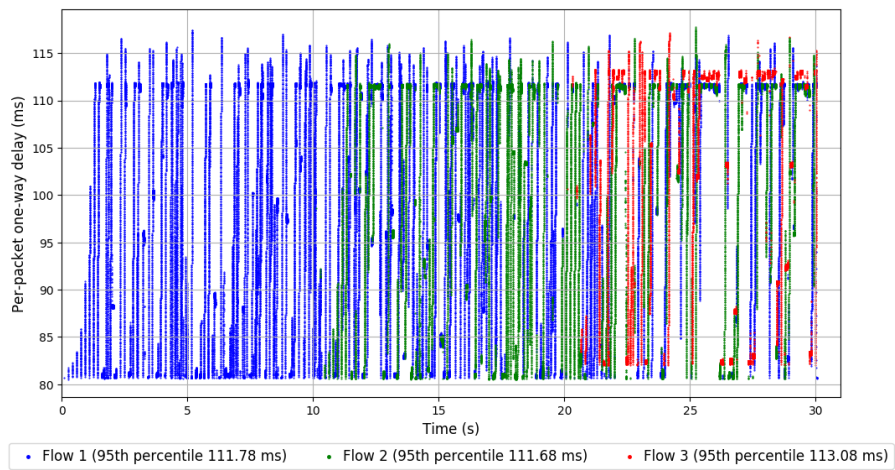
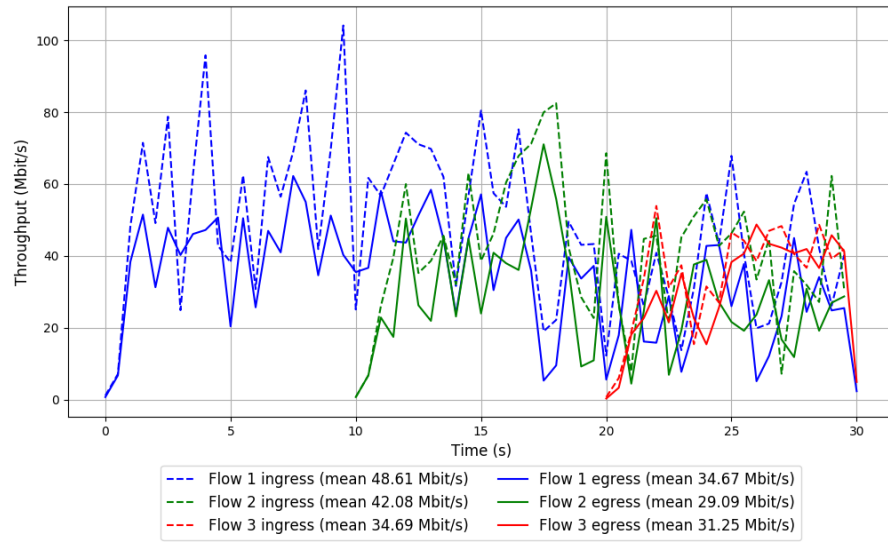
Run 8: Statistics of TCP BBR

Start at: 2018-01-17 05:42:59  
End at: 2018-01-17 05:43:29  
Local clock offset: 0.667 ms  
Remote clock offset: -6.448 ms

# Below is generated by plot.py at 2018-01-17 07:12:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.26 Mbit/s  
95th percentile per-packet one-way delay: 112.840 ms  
Loss rate: 26.90%  
-- Flow 1:  
Average throughput: 34.67 Mbit/s  
95th percentile per-packet one-way delay: 111.776 ms  
Loss rate: 28.67%  
-- Flow 2:  
Average throughput: 29.09 Mbit/s  
95th percentile per-packet one-way delay: 111.680 ms  
Loss rate: 30.82%  
-- Flow 3:  
Average throughput: 31.25 Mbit/s  
95th percentile per-packet one-way delay: 113.085 ms  
Loss rate: 9.84%



# Run 8: Report of TCP BBR — Data Link

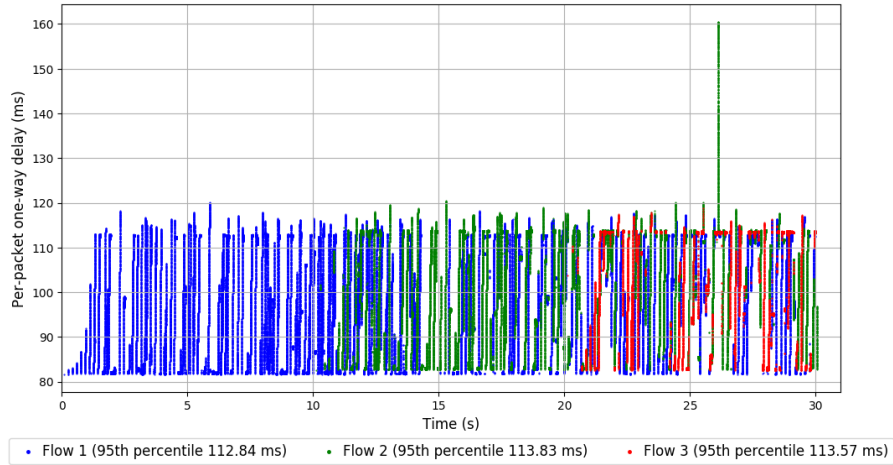
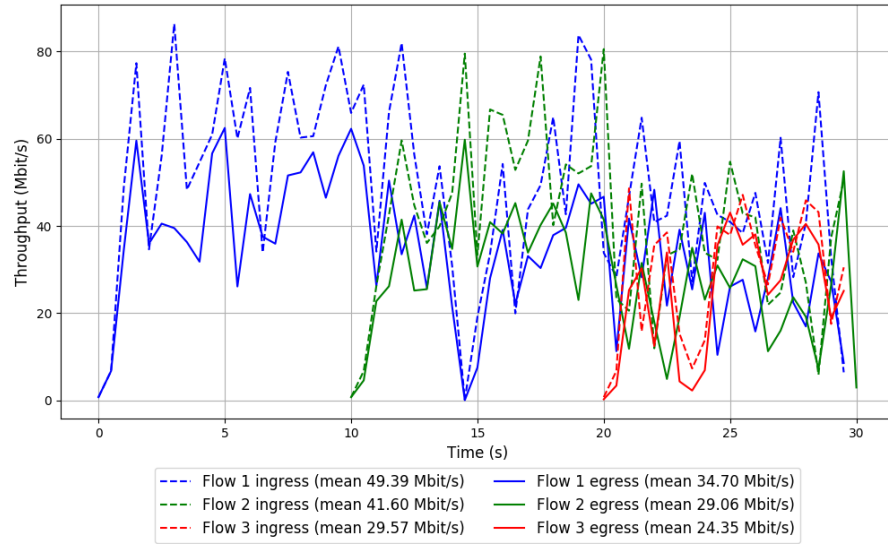


Run 9: Statistics of TCP BBR

Start at: 2018-01-17 06:06:18  
End at: 2018-01-17 06:06:48  
Local clock offset: 0.633 ms  
Remote clock offset: -5.655 ms

# Below is generated by plot.py at 2018-01-17 07:13:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.97 Mbit/s  
95th percentile per-packet one-way delay: 113.716 ms  
Loss rate: 28.44%  
-- Flow 1:  
Average throughput: 34.70 Mbit/s  
95th percentile per-packet one-way delay: 112.843 ms  
Loss rate: 29.67%  
-- Flow 2:  
Average throughput: 29.06 Mbit/s  
95th percentile per-packet one-way delay: 113.828 ms  
Loss rate: 30.08%  
-- Flow 3:  
Average throughput: 24.35 Mbit/s  
95th percentile per-packet one-way delay: 113.571 ms  
Loss rate: 17.56%

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

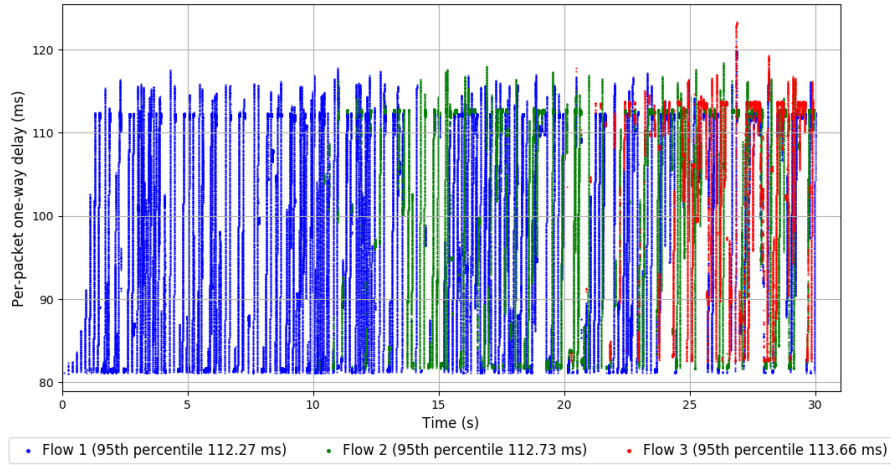
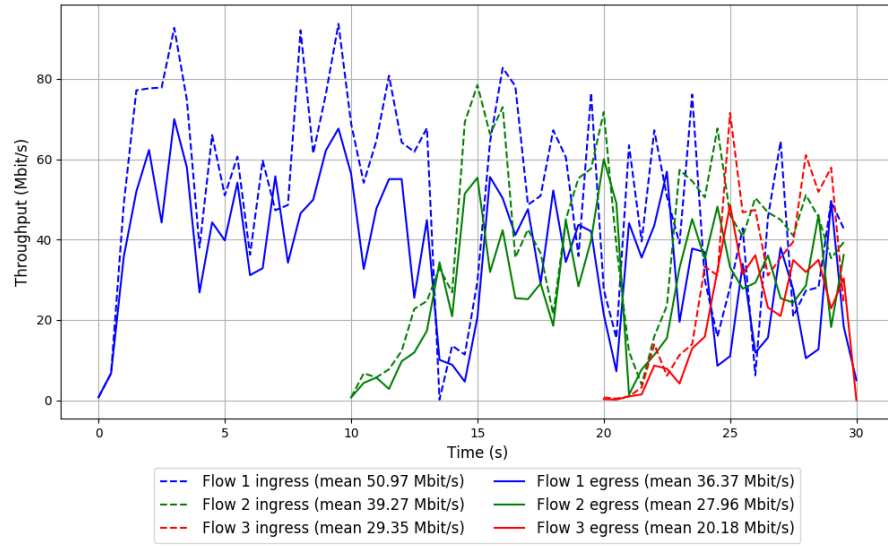


Run 10: Statistics of TCP BBR

Start at: 2018-01-17 06:29:48  
End at: 2018-01-17 06:30:18  
Local clock offset: 0.699 ms  
Remote clock offset: -4.498 ms

# Below is generated by plot.py at 2018-01-17 07:13:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.59 Mbit/s  
95th percentile per-packet one-way delay: 113.460 ms  
Loss rate: 28.92%  
-- Flow 1:  
Average throughput: 36.37 Mbit/s  
95th percentile per-packet one-way delay: 112.267 ms  
Loss rate: 28.59%  
-- Flow 2:  
Average throughput: 27.96 Mbit/s  
95th percentile per-packet one-way delay: 112.733 ms  
Loss rate: 28.69%  
-- Flow 3:  
Average throughput: 20.18 Mbit/s  
95th percentile per-packet one-way delay: 113.655 ms  
Loss rate: 31.25%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-17 03:12:42

End at: 2018-01-17 03:13:12

Local clock offset: 0.996 ms

Remote clock offset: -0.672 ms

Run 1: Report of TCP Cubic — Data Link

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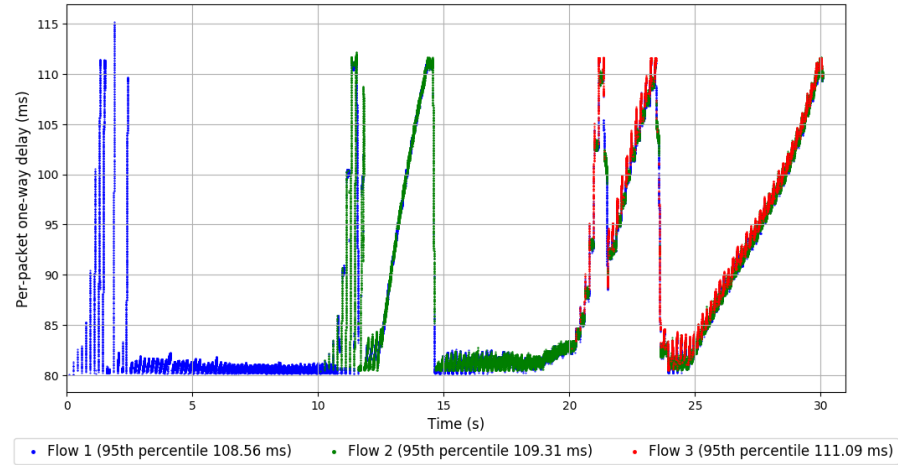
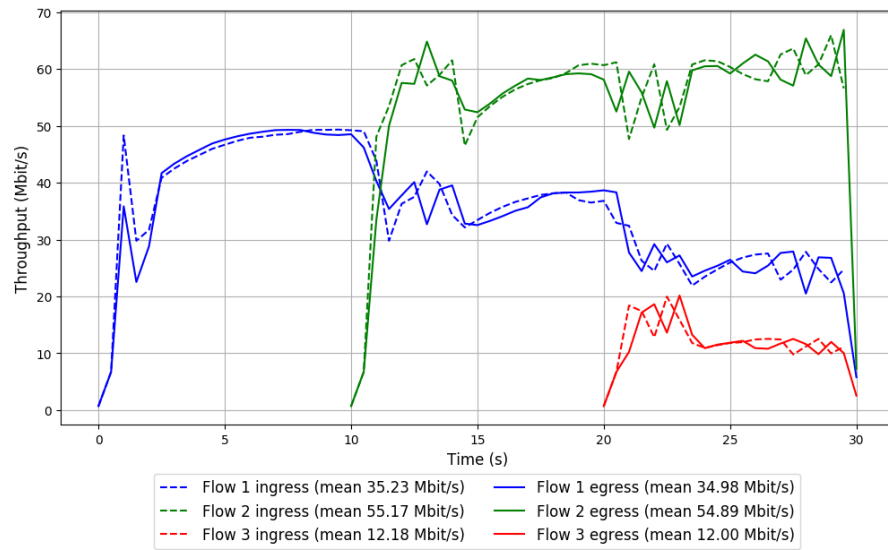
Run 2: Statistics of TCP Cubic

Start at: 2018-01-17 03:35:54  
End at: 2018-01-17 03:36:24  
Local clock offset: 0.913 ms  
Remote clock offset: -6.817 ms

# Below is generated by plot.py at 2018-01-17 07:13:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.53 Mbit/s  
95th percentile per-packet one-way delay: 109.359 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 34.98 Mbit/s  
95th percentile per-packet one-way delay: 108.555 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 54.89 Mbit/s  
95th percentile per-packet one-way delay: 109.309 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 12.00 Mbit/s  
95th percentile per-packet one-way delay: 111.094 ms  
Loss rate: 1.22%



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

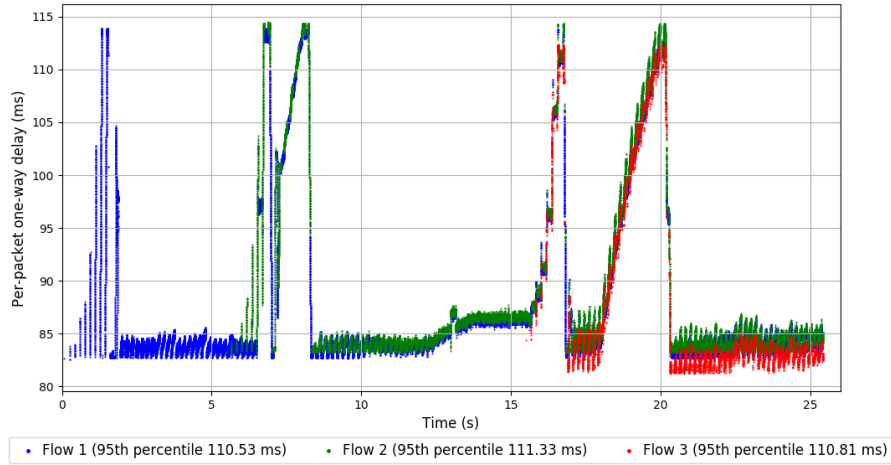
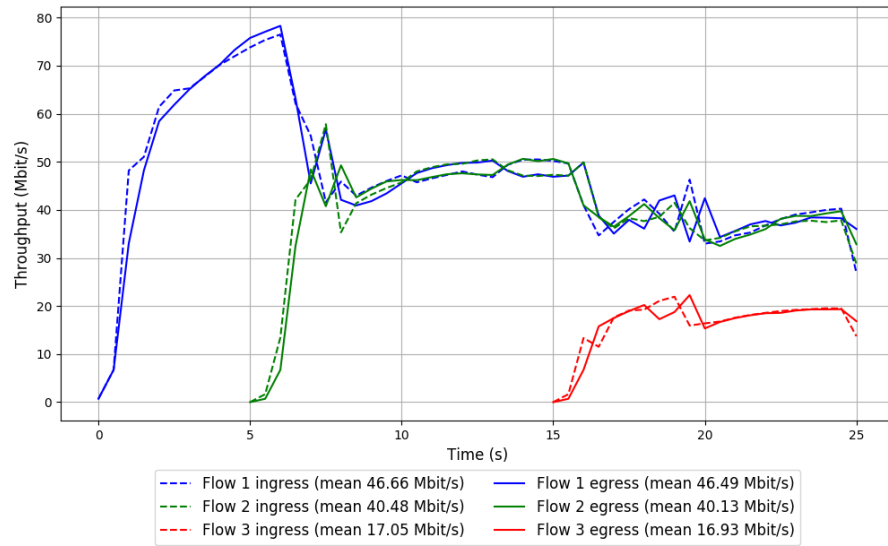


Run 3: Statistics of TCP Cubic

Start at: 2018-01-17 03:59:13  
End at: 2018-01-17 03:59:43  
Local clock offset: 0.917 ms  
Remote clock offset: -5.679 ms

# Below is generated by plot.py at 2018-01-17 07:13:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.67 Mbit/s  
95th percentile per-packet one-way delay: 111.026 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 46.49 Mbit/s  
95th percentile per-packet one-way delay: 110.531 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 40.13 Mbit/s  
95th percentile per-packet one-way delay: 111.330 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 16.93 Mbit/s  
95th percentile per-packet one-way delay: 110.810 ms  
Loss rate: 0.74%

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



Run 4: Statistics of TCP Cubic

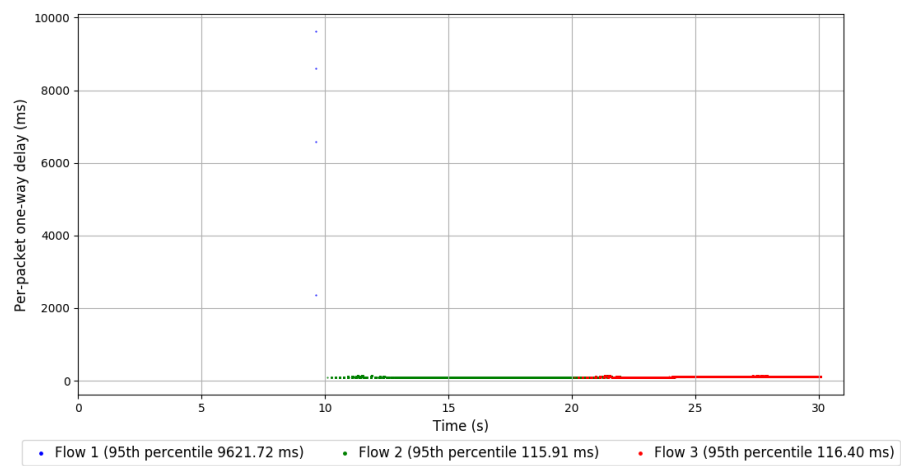
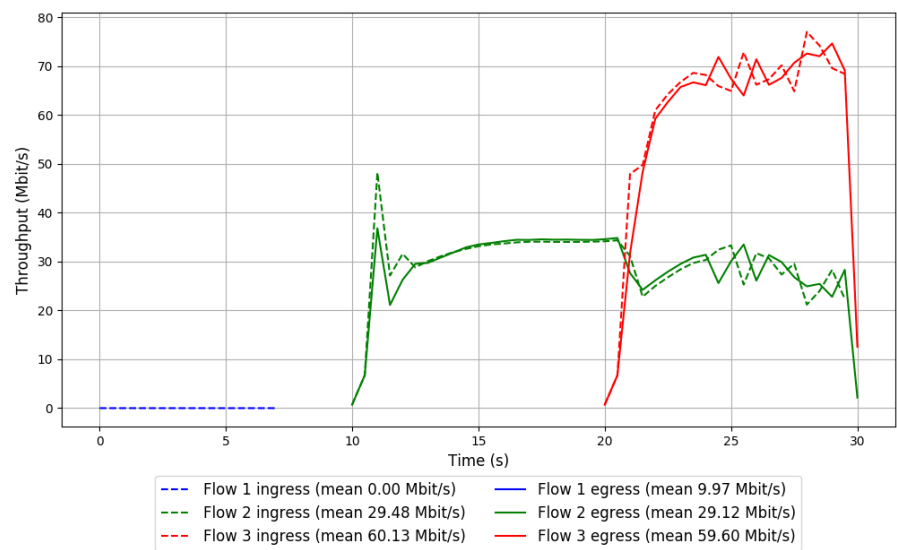
Start at: 2018-01-17 04:22:31

End at: 2018-01-17 04:23:01

Local clock offset: 0.86 ms

Remote clock offset: -0.795 ms

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-17 04:45:55

End at: 2018-01-17 04:46:25

Local clock offset: 0.746 ms

Remote clock offset: 3.443 ms

# Below is generated by plot.py at 2018-01-17 07:13:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 55.98 Mbit/s

95th percentile per-packet one-way delay: 117.712 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 1741.470 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.97 Mbit/s

95th percentile per-packet one-way delay: 115.860 ms

Loss rate: 0.39%

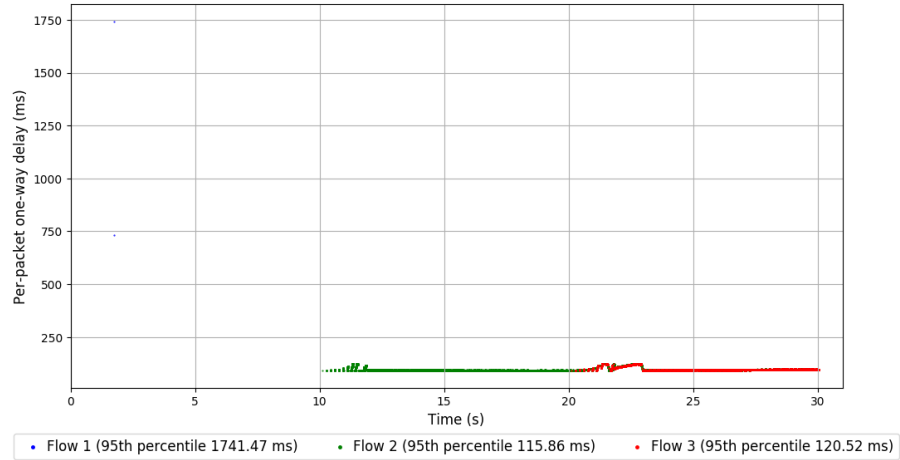
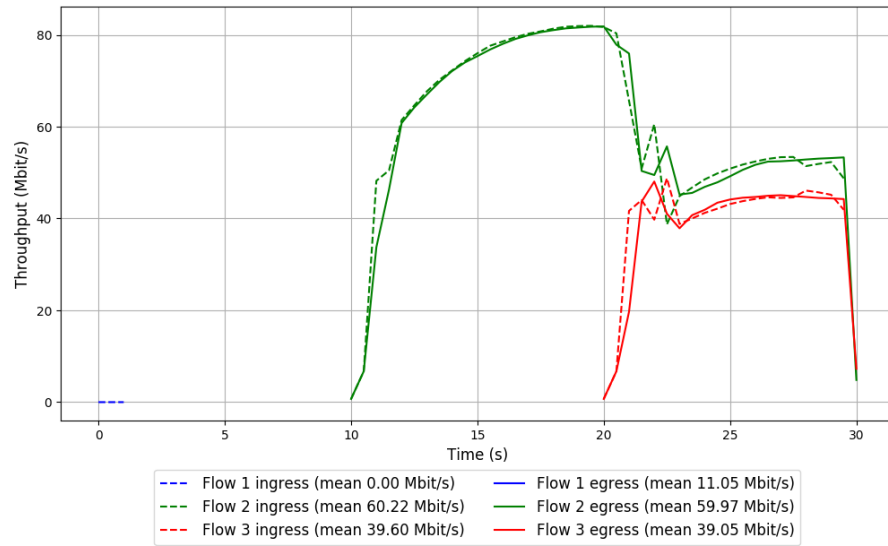
-- Flow 3:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 120.524 ms

Loss rate: 1.32%

# Run 5: Report of TCP Cubic — Data Link



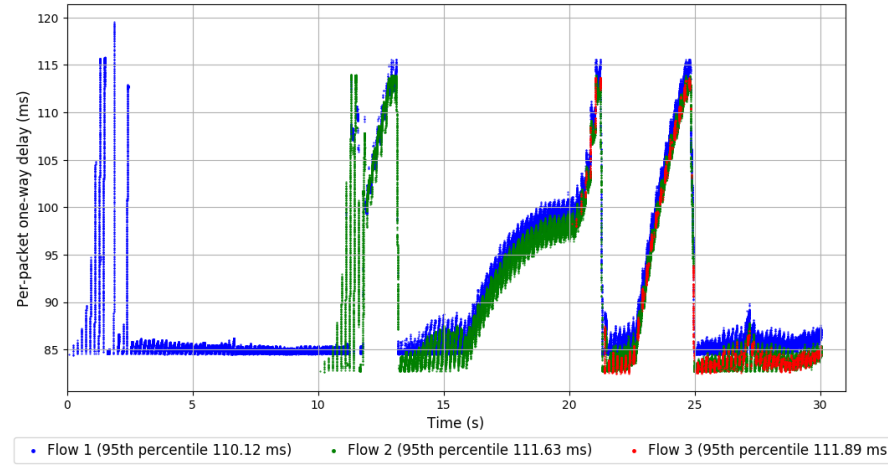
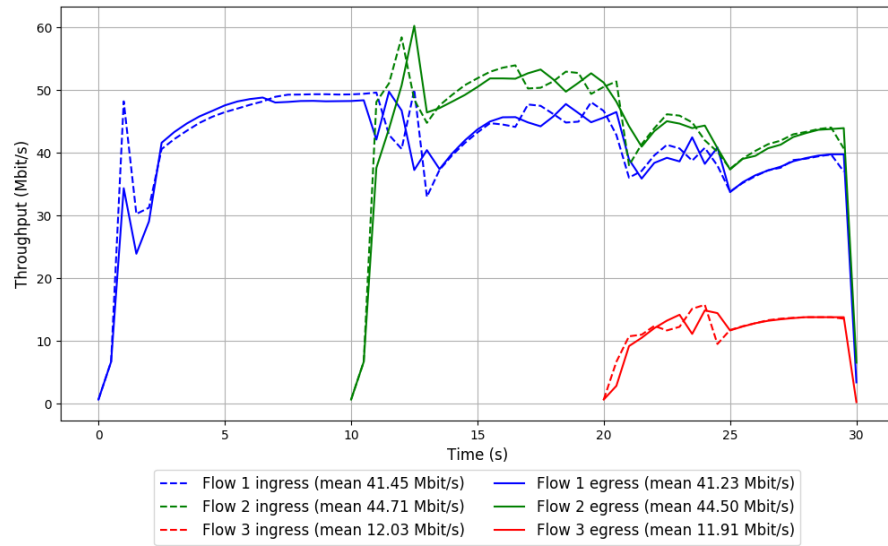
Run 6: Statistics of TCP Cubic

Start at: 2018-01-17 05:09:19  
End at: 2018-01-17 05:09:49  
Local clock offset: 0.712 ms  
Remote clock offset: -4.496 ms

# Below is generated by plot.py at 2018-01-17 07:13:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.82 Mbit/s  
95th percentile per-packet one-way delay: 111.137 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 41.23 Mbit/s  
95th percentile per-packet one-way delay: 110.121 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 44.50 Mbit/s  
95th percentile per-packet one-way delay: 111.630 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 11.91 Mbit/s  
95th percentile per-packet one-way delay: 111.892 ms  
Loss rate: 1.08%



# Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-17 05:32:40

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

Local clock offset: 0.671 ms

Remote clock offset: -5.57 ms

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

Figure is missing

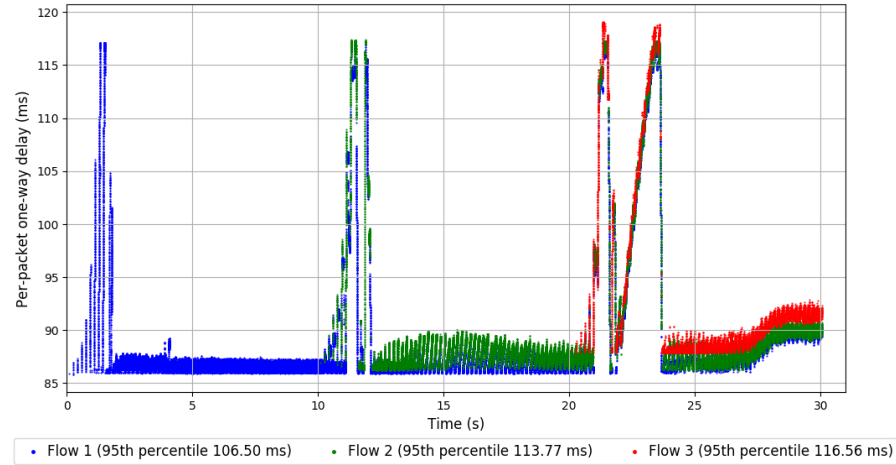
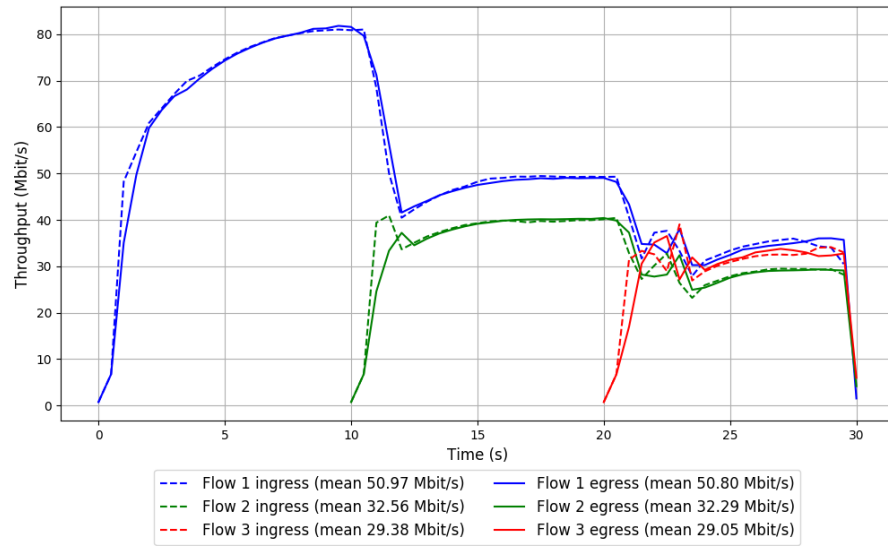
Figure is missing

Run 8: Statistics of TCP Cubic

Start at: 2018-01-17 05:56:02  
End at: 2018-01-17 05:56:32  
Local clock offset: 0.666 ms  
Remote clock offset: -0.668 ms

# Below is generated by plot.py at 2018-01-17 07:13:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.95 Mbit/s  
95th percentile per-packet one-way delay: 112.253 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 50.80 Mbit/s  
95th percentile per-packet one-way delay: 106.505 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 32.29 Mbit/s  
95th percentile per-packet one-way delay: 113.770 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 29.05 Mbit/s  
95th percentile per-packet one-way delay: 116.562 ms  
Loss rate: 1.08%

# Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-17 06:19:32

End at: 2018-01-17 06:20:02

Local clock offset: 0.732 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-01-17 07:14:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 111.121 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 50.73 Mbit/s

95th percentile per-packet one-way delay: 109.252 ms

Loss rate: 0.36%

-- Flow 2:

Average throughput: 33.10 Mbit/s

95th percentile per-packet one-way delay: 114.019 ms

Loss rate: 0.79%

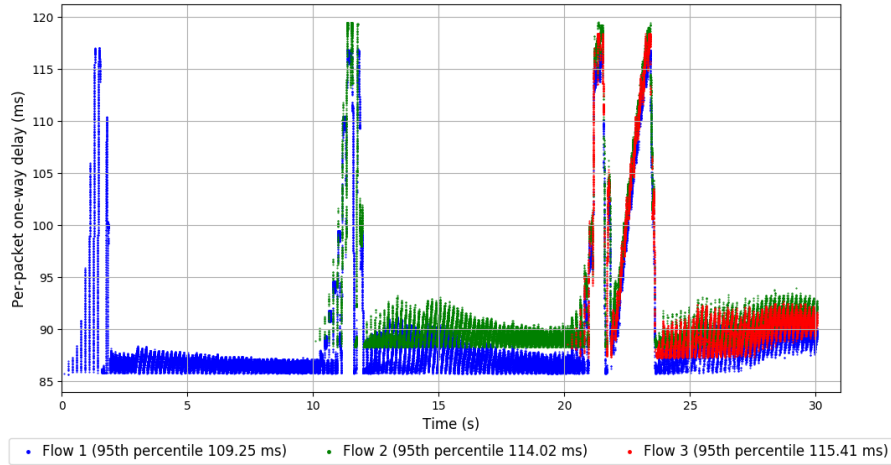
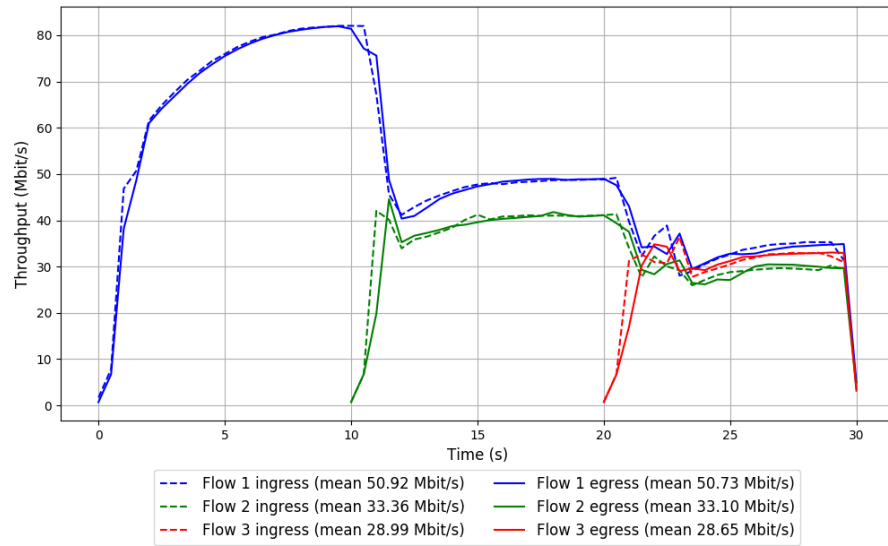
-- Flow 3:

Average throughput: 28.65 Mbit/s

95th percentile per-packet one-way delay: 115.414 ms

Loss rate: 1.14%

# Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-17 06:42:44

End at: 2018-01-17 06:43:14

Local clock offset: 0.589 ms

Remote clock offset: -0.539 ms



Run 10: Report of TCP Cubic — Data Link

Figure is missing

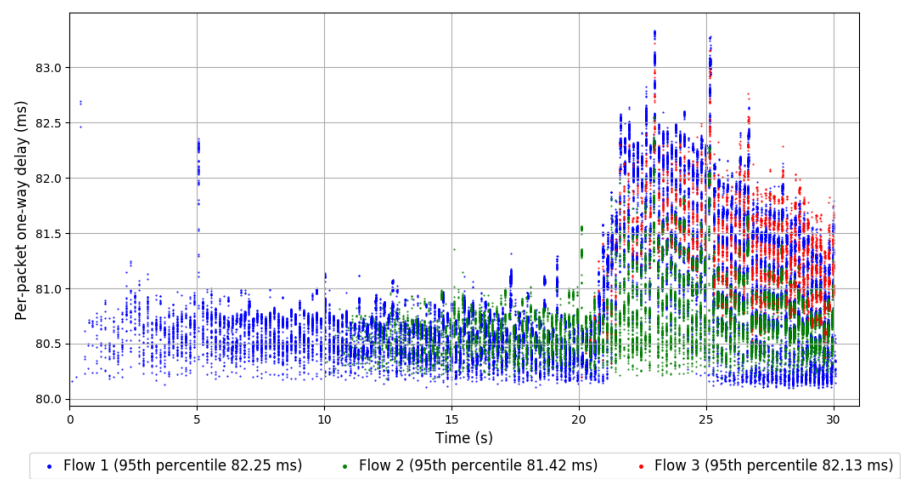
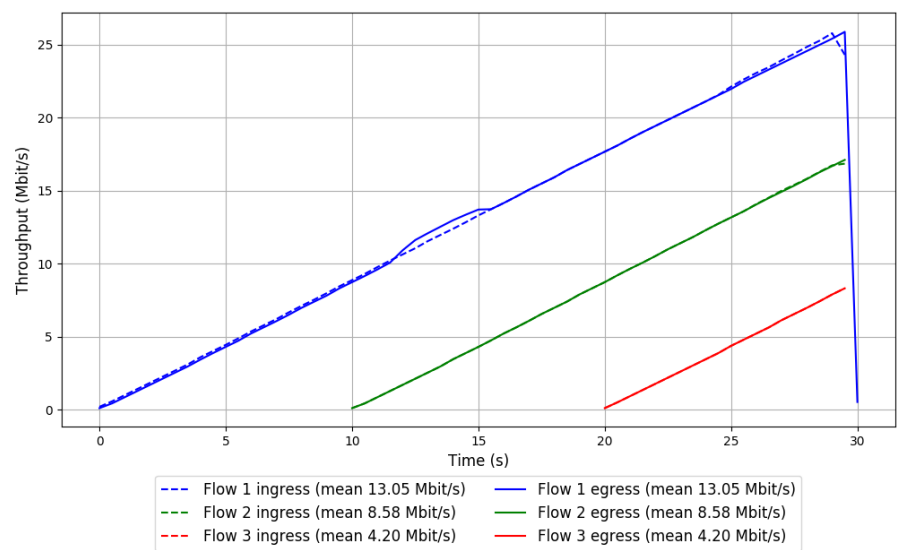
Figure is missing

Run 1: Statistics of LEDBAT

Start at: 2018-01-17 02:50:43  
End at: 2018-01-17 02:51:13  
Local clock offset: 0.919 ms  
Remote clock offset: -5.813 ms

# Below is generated by plot.py at 2018-01-17 07:14:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.12 Mbit/s  
95th percentile per-packet one-way delay: 82.155 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.05 Mbit/s  
95th percentile per-packet one-way delay: 82.255 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.58 Mbit/s  
95th percentile per-packet one-way delay: 81.421 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.20 Mbit/s  
95th percentile per-packet one-way delay: 82.131 ms  
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-17 03:13:56

End at: 2018-01-17 03:14:26

Local clock offset: 1.046 ms

Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2018-01-17 07:14:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.21 Mbit/s

95th percentile per-packet one-way delay: 88.908 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 89.010 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.54 Mbit/s

95th percentile per-packet one-way delay: 88.393 ms

Loss rate: 0.00%

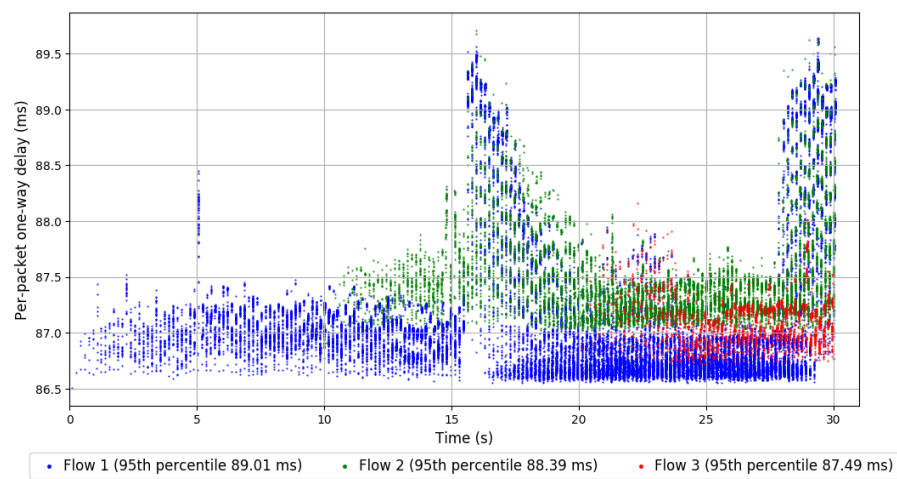
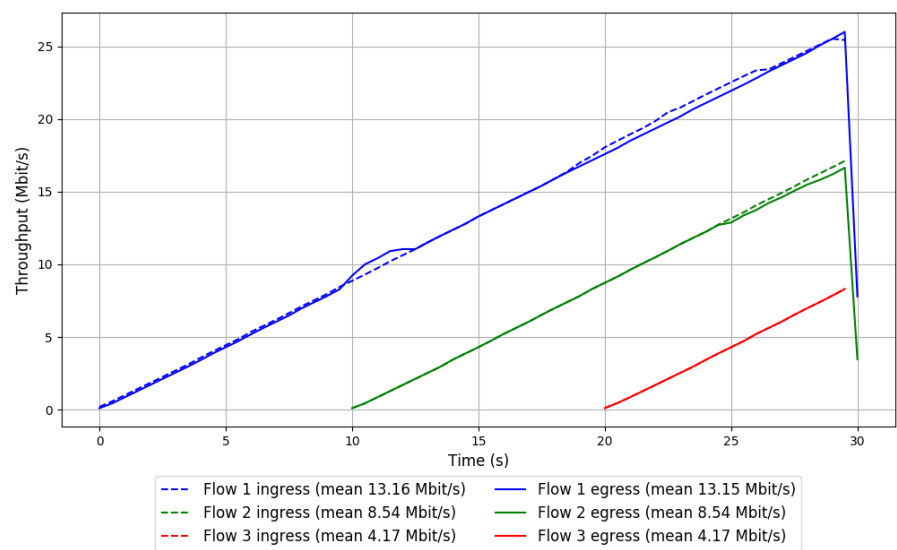
-- Flow 3:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 87.491 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

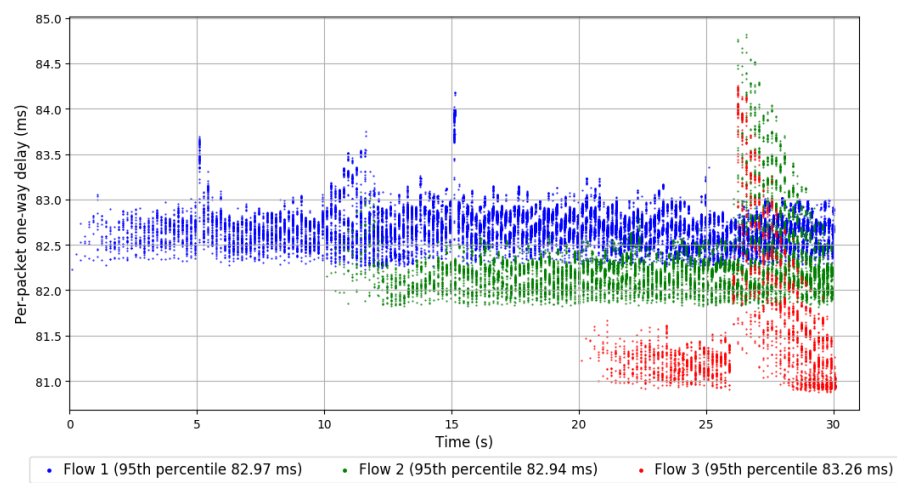
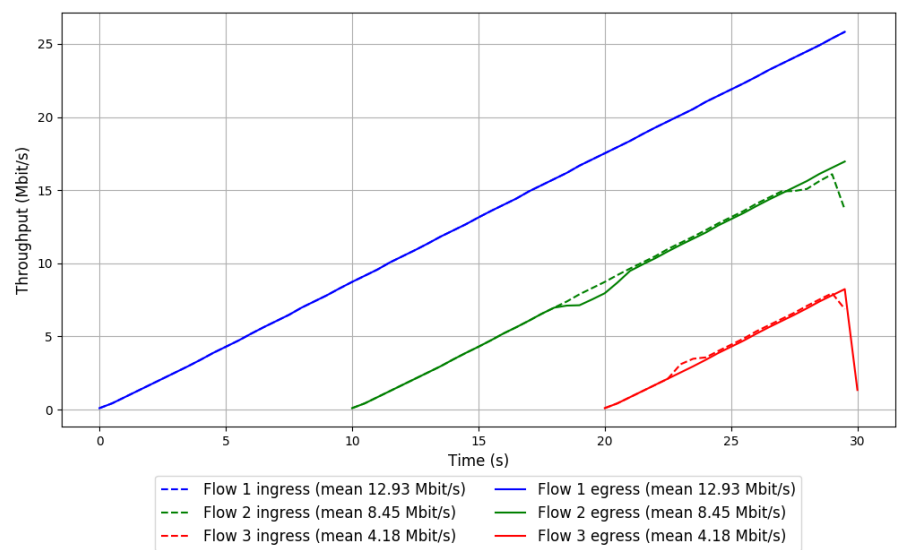


Run 3: Statistics of LEDBAT

Start at: 2018-01-17 03:37:13  
End at: 2018-01-17 03:37:43  
Local clock offset: 0.986 ms  
Remote clock offset: -5.941 ms

# Below is generated by plot.py at 2018-01-17 07:14:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.88 Mbit/s  
95th percentile per-packet one-way delay: 82.975 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.93 Mbit/s  
95th percentile per-packet one-way delay: 82.974 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.45 Mbit/s  
95th percentile per-packet one-way delay: 82.943 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.18 Mbit/s  
95th percentile per-packet one-way delay: 83.264 ms  
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



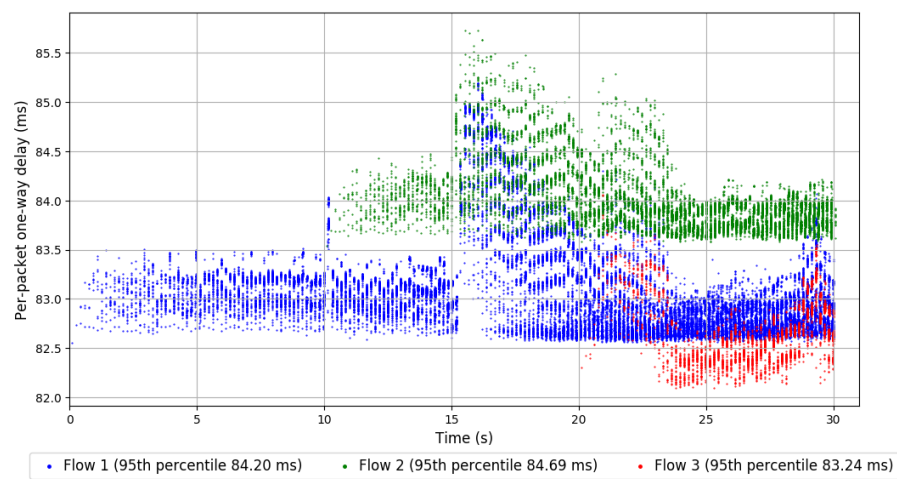
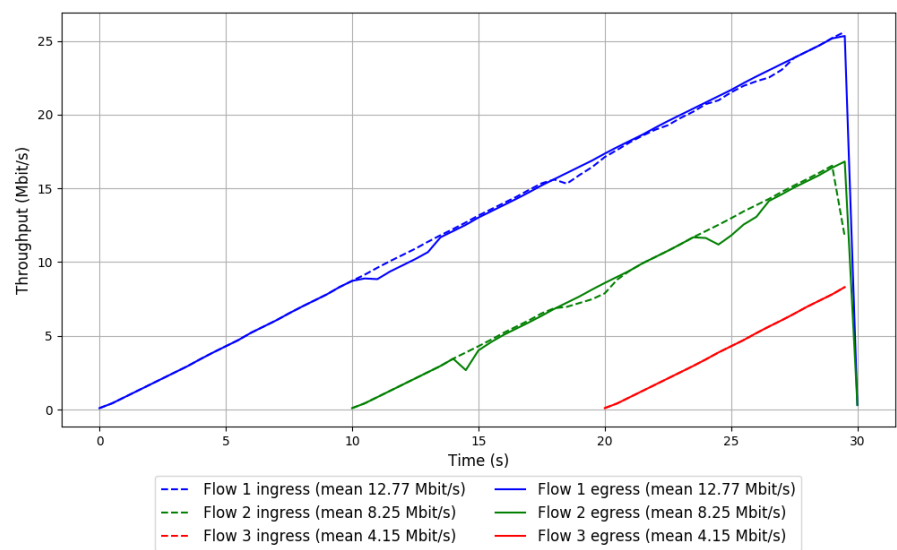
Run 4: Statistics of LEDBAT

Start at: 2018-01-17 04:00:31  
End at: 2018-01-17 04:01:01  
Local clock offset: 0.9 ms  
Remote clock offset: -5.706 ms

# Below is generated by plot.py at 2018-01-17 07:14:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.61 Mbit/s  
95th percentile per-packet one-way delay: 84.444 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 12.77 Mbit/s  
95th percentile per-packet one-way delay: 84.202 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.25 Mbit/s  
95th percentile per-packet one-way delay: 84.685 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 4.15 Mbit/s  
95th percentile per-packet one-way delay: 83.243 ms  
Loss rate: 0.00%



Run 4: Report of LEDBAT — Data Link

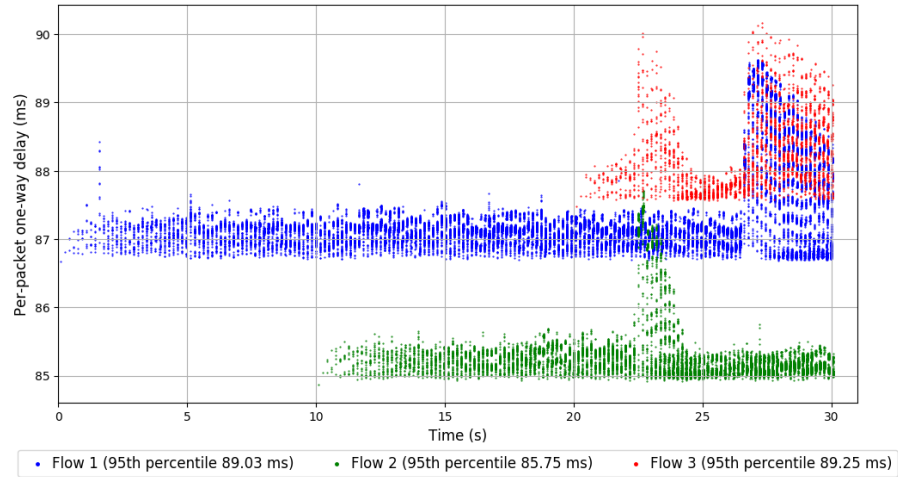
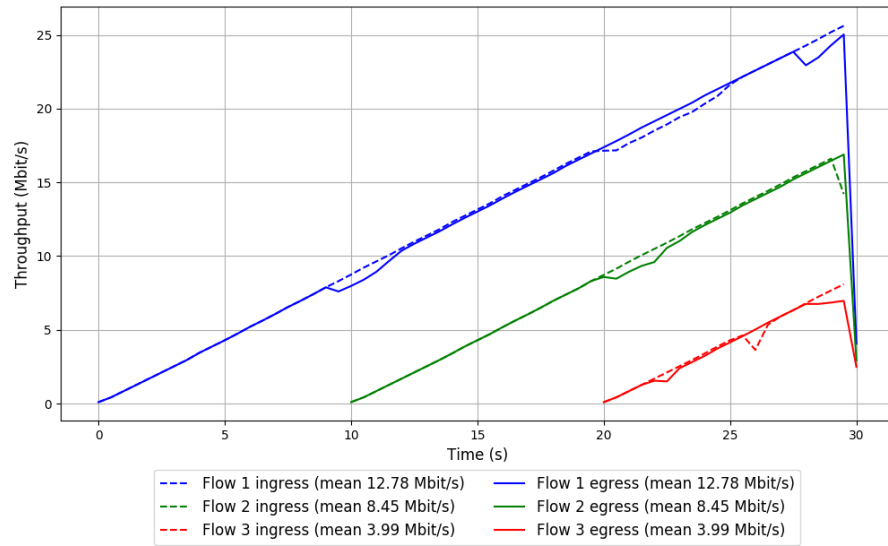


Run 5: Statistics of LEDBAT

Start at: 2018-01-17 04:23:47  
End at: 2018-01-17 04:24:17  
Local clock offset: 0.86 ms  
Remote clock offset: -1.681 ms

# Below is generated by plot.py at 2018-01-17 07:14:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.72 Mbit/s  
95th percentile per-packet one-way delay: 88.814 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.78 Mbit/s  
95th percentile per-packet one-way delay: 89.025 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.45 Mbit/s  
95th percentile per-packet one-way delay: 85.754 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.99 Mbit/s  
95th percentile per-packet one-way delay: 89.247 ms  
Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-17 04:47:12

End at: 2018-01-17 04:47:42

Local clock offset: 0.741 ms

Remote clock offset: 9.85 ms

# Below is generated by plot.py at 2018-01-17 07:14:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.84 Mbit/s

95th percentile per-packet one-way delay: 98.934 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 98.965 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 98.552 ms

Loss rate: 0.00%

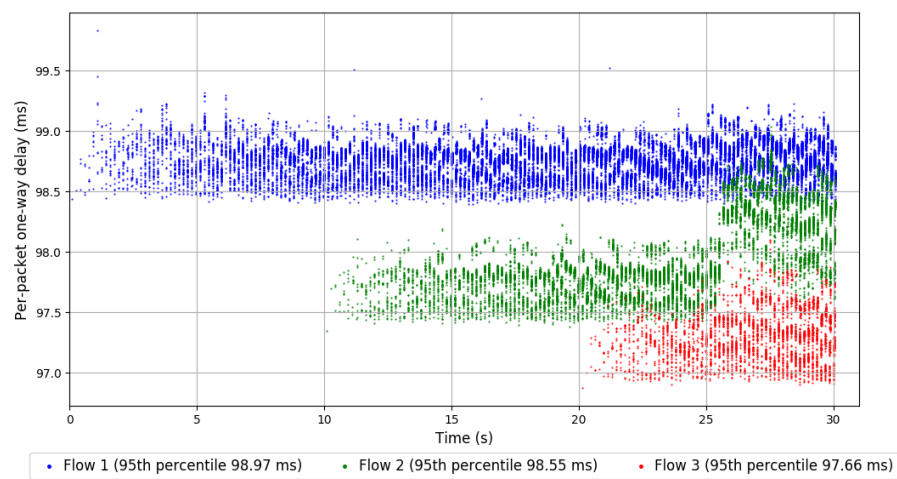
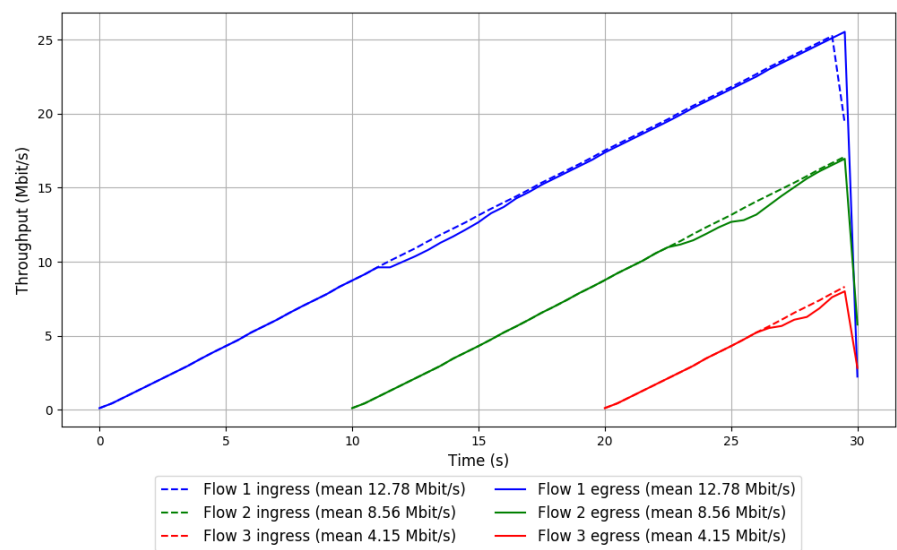
-- Flow 3:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 97.657 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

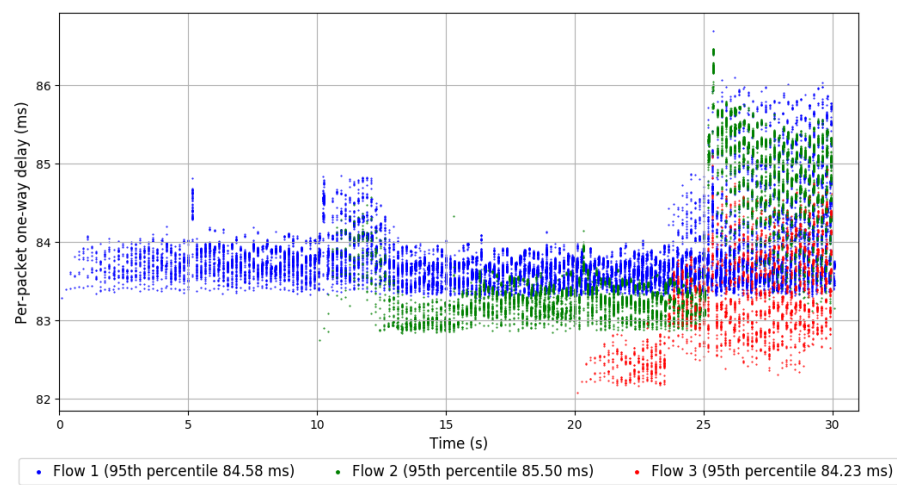
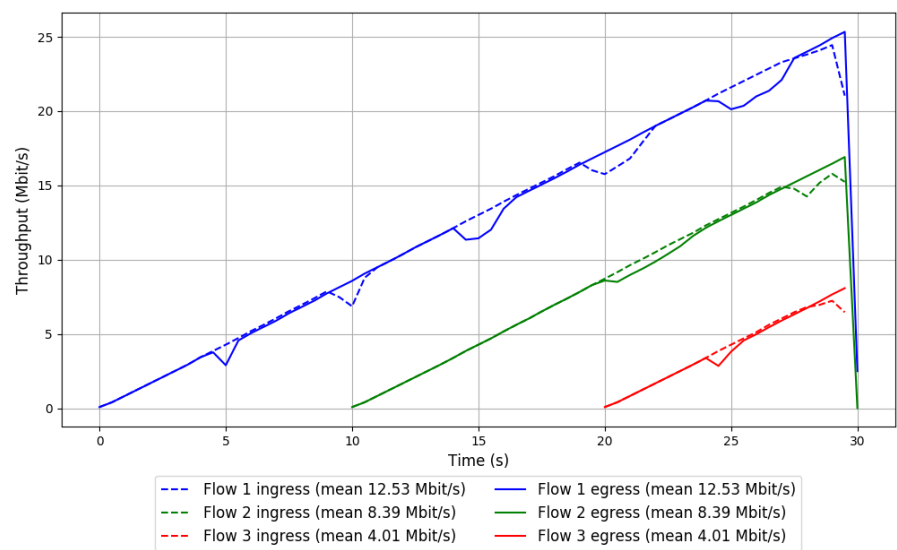


Run 7: Statistics of LEDBAT

Start at: 2018-01-17 05:10:37  
End at: 2018-01-17 05:11:07  
Local clock offset: 0.656 ms  
Remote clock offset: -5.355 ms

# Below is generated by plot.py at 2018-01-17 07:14:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.43 Mbit/s  
95th percentile per-packet one-way delay: 85.253 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.53 Mbit/s  
95th percentile per-packet one-way delay: 84.575 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.39 Mbit/s  
95th percentile per-packet one-way delay: 85.497 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.01 Mbit/s  
95th percentile per-packet one-way delay: 84.228 ms  
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-17 05:33:54

End at: 2018-01-17 05:34:24

Local clock offset: 0.586 ms

Remote clock offset: 0.239 ms

# Below is generated by plot.py at 2018-01-17 07:14:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 19.72 Mbit/s

95th percentile per-packet one-way delay: 90.140 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 89.530 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.30 Mbit/s

95th percentile per-packet one-way delay: 90.700 ms

Loss rate: 0.01%

-- Flow 3:

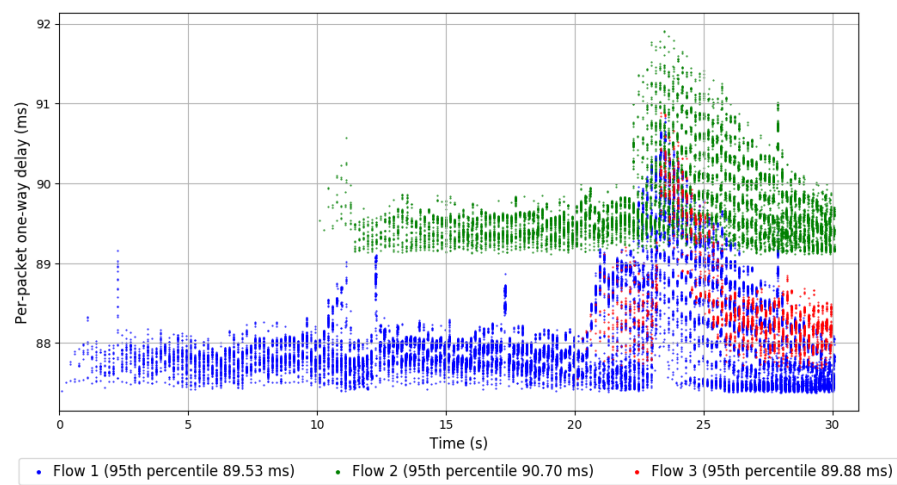
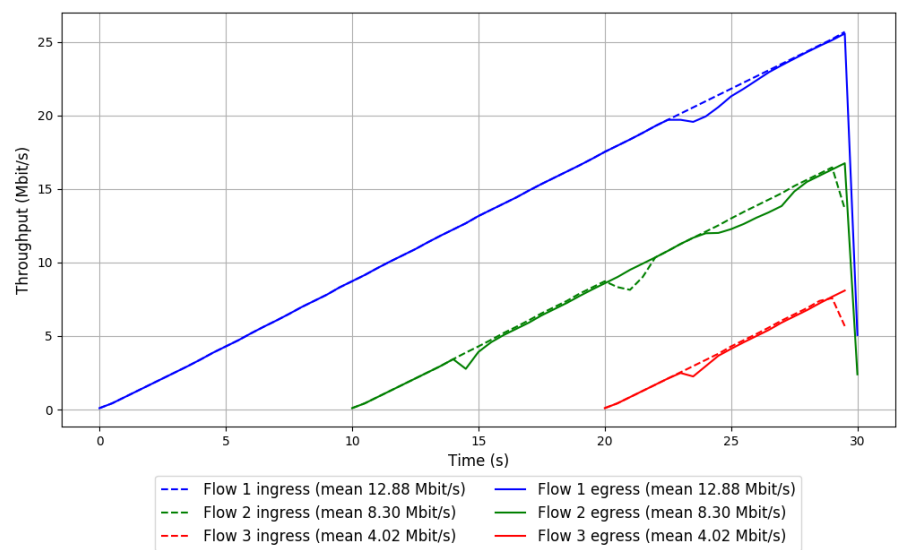
Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 89.884 ms

Loss rate: 0.00%



Run 8: Report of LEDBAT — Data Link

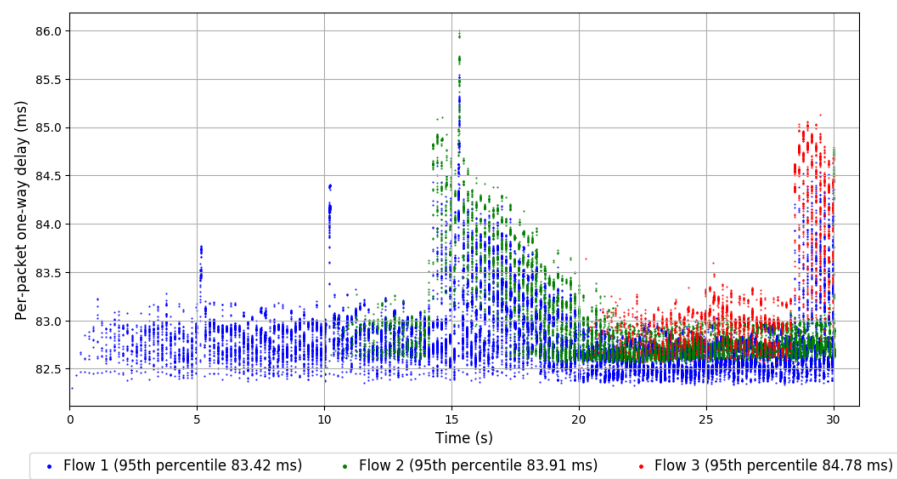
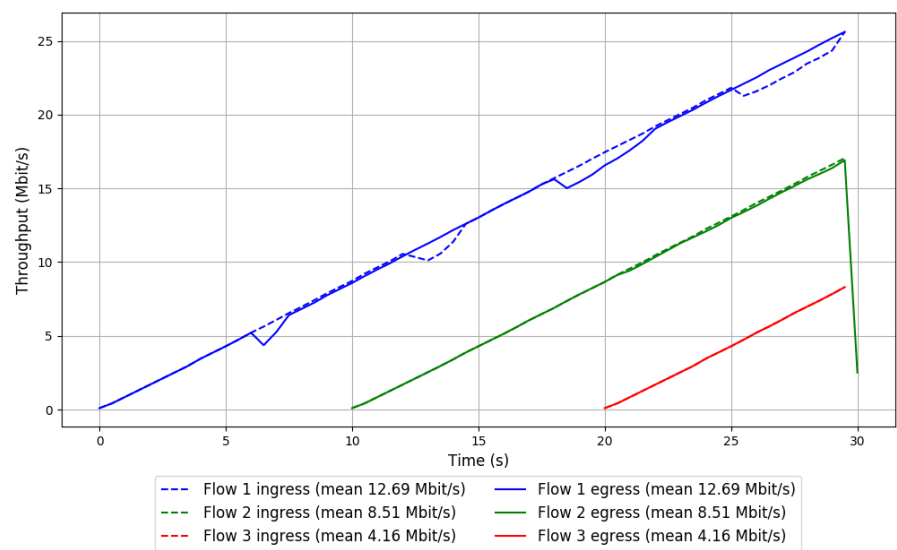


Run 9: Statistics of LEDBAT

Start at: 2018-01-17 05:57:21  
End at: 2018-01-17 05:57:51  
Local clock offset: 0.683 ms  
Remote clock offset: -5.923 ms

# Below is generated by plot.py at 2018-01-17 07:14:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.72 Mbit/s  
95th percentile per-packet one-way delay: 83.772 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 12.69 Mbit/s  
95th percentile per-packet one-way delay: 83.420 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 8.51 Mbit/s  
95th percentile per-packet one-way delay: 83.914 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 4.16 Mbit/s  
95th percentile per-packet one-way delay: 84.782 ms  
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-17 06:20:50

End at: 2018-01-17 06:21:20

Local clock offset: 0.719 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2018-01-17 07:14:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 20.08 Mbit/s

95th percentile per-packet one-way delay: 89.156 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 88.682 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 8.40 Mbit/s

95th percentile per-packet one-way delay: 89.496 ms

Loss rate: 0.00%

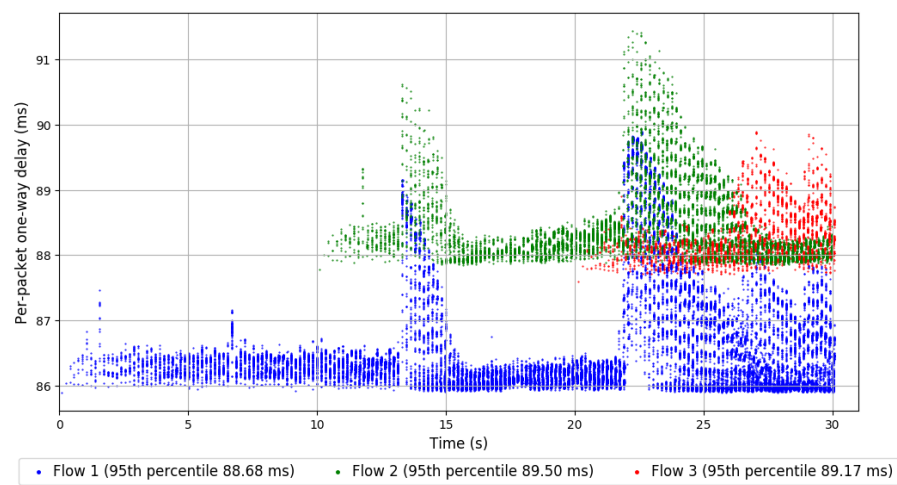
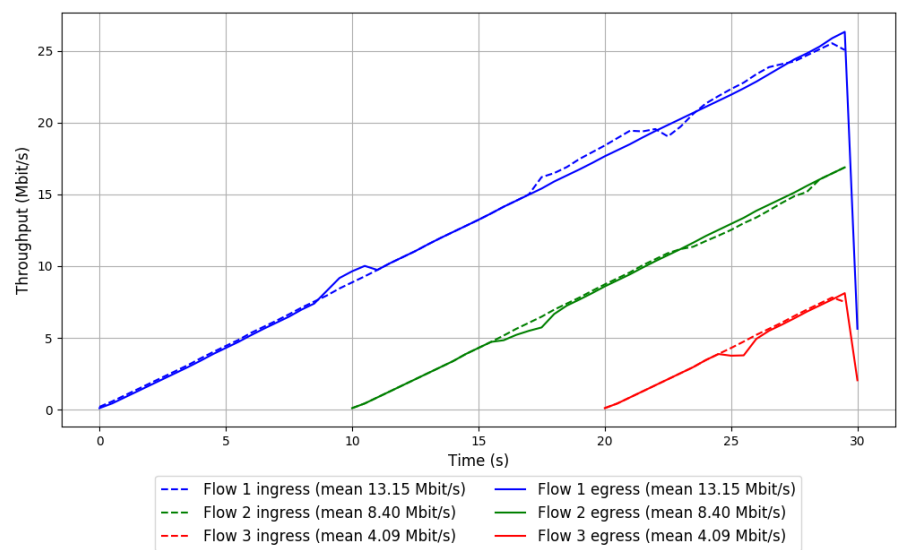
-- Flow 3:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 89.167 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

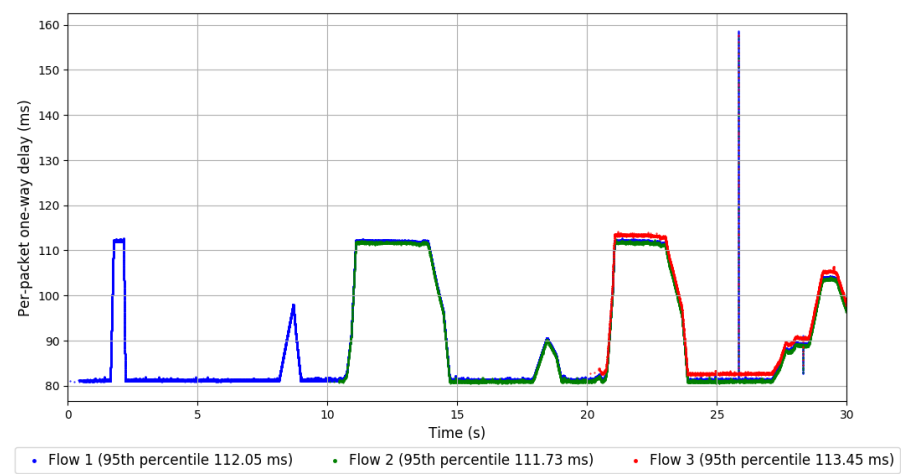
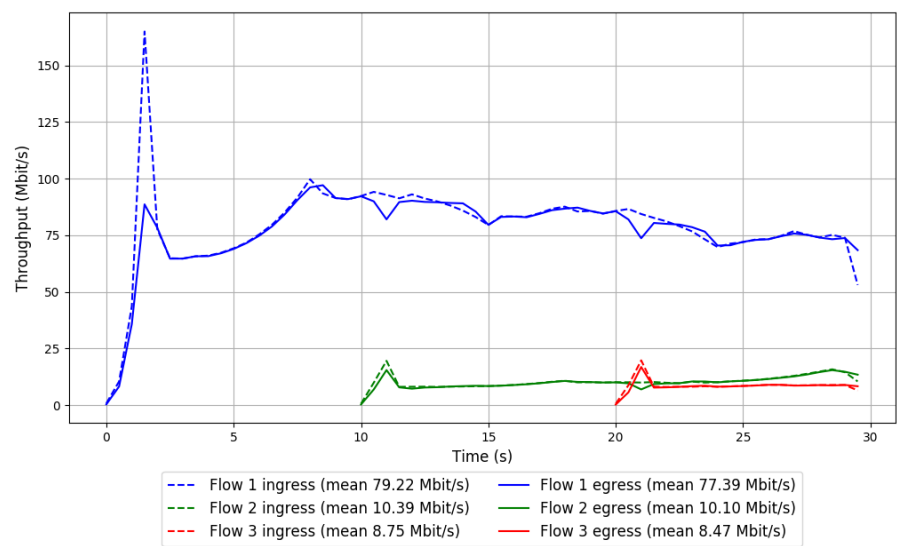


Run 1: Statistics of PCC

Start at: 2018-01-17 02:55:56  
End at: 2018-01-17 02:56:26  
Local clock offset: 1.019 ms  
Remote clock offset: -5.047 ms

# Below is generated by plot.py at 2018-01-17 07:15:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.90 Mbit/s  
95th percentile per-packet one-way delay: 112.058 ms  
Loss rate: 2.32%  
-- Flow 1:  
Average throughput: 77.39 Mbit/s  
95th percentile per-packet one-way delay: 112.054 ms  
Loss rate: 2.26%  
-- Flow 2:  
Average throughput: 10.10 Mbit/s  
95th percentile per-packet one-way delay: 111.726 ms  
Loss rate: 2.75%  
-- Flow 3:  
Average throughput: 8.47 Mbit/s  
95th percentile per-packet one-way delay: 113.454 ms  
Loss rate: 3.01%

Run 1: Report of PCC — Data Link



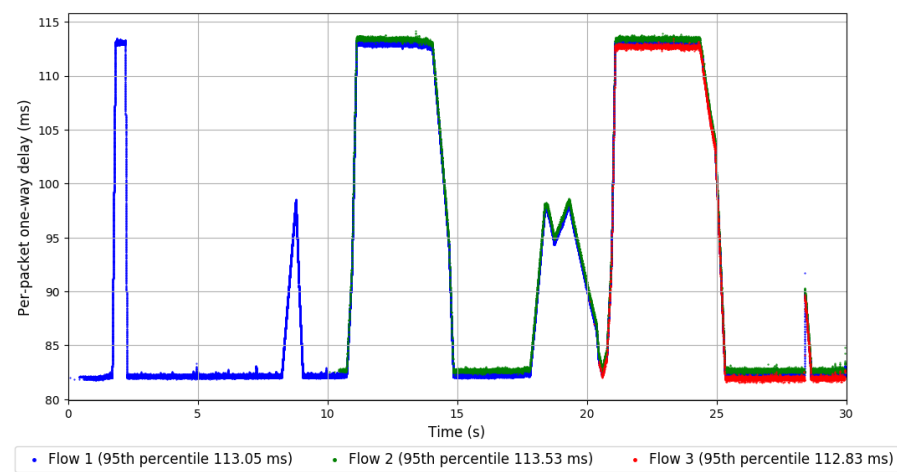
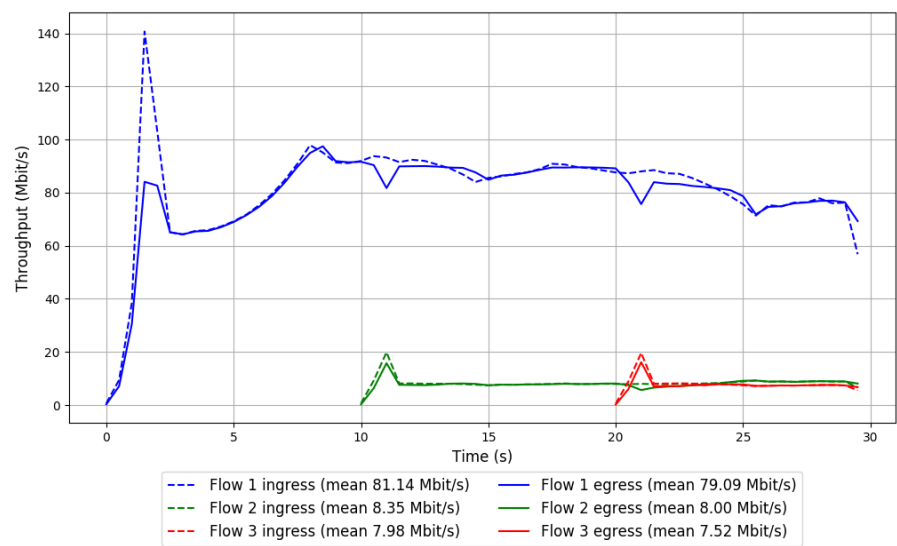
Run 2: Statistics of PCC

Start at: 2018-01-17 03:19:09  
End at: 2018-01-17 03:19:39  
Local clock offset: 1.081 ms  
Remote clock offset: -6.413 ms

# Below is generated by plot.py at 2018-01-17 07:15:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.87 Mbit/s  
95th percentile per-packet one-way delay: 113.072 ms  
Loss rate: 2.73%  
-- Flow 1:  
Average throughput: 79.09 Mbit/s  
95th percentile per-packet one-way delay: 113.047 ms  
Loss rate: 2.53%  
-- Flow 2:  
Average throughput: 8.00 Mbit/s  
95th percentile per-packet one-way delay: 113.531 ms  
Loss rate: 4.16%  
-- Flow 3:  
Average throughput: 7.52 Mbit/s  
95th percentile per-packet one-way delay: 112.828 ms  
Loss rate: 5.84%



Run 2: Report of PCC — Data Link

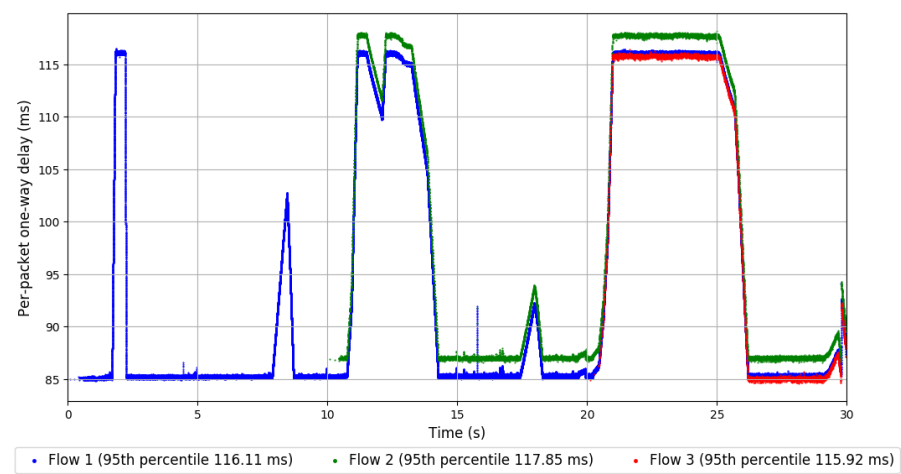
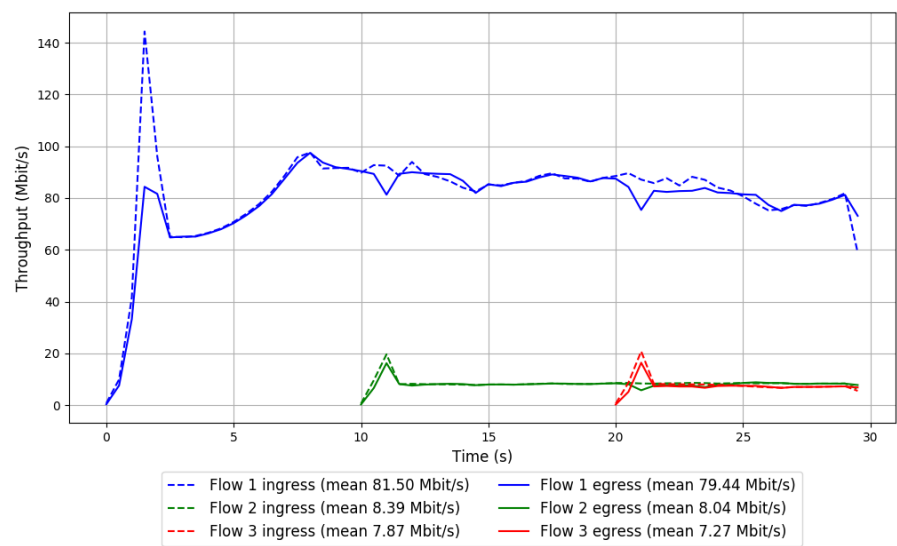


Run 3: Statistics of PCC

Start at: 2018-01-17 03:42:25  
End at: 2018-01-17 03:42:55  
Local clock offset: 0.964 ms  
Remote clock offset: -2.066 ms

# Below is generated by plot.py at 2018-01-17 07:15:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.19 Mbit/s  
95th percentile per-packet one-way delay: 116.137 ms  
Loss rate: 2.77%  
-- Flow 1:  
Average throughput: 79.44 Mbit/s  
95th percentile per-packet one-way delay: 116.111 ms  
Loss rate: 2.52%  
-- Flow 2:  
Average throughput: 8.04 Mbit/s  
95th percentile per-packet one-way delay: 117.852 ms  
Loss rate: 4.21%  
-- Flow 3:  
Average throughput: 7.27 Mbit/s  
95th percentile per-packet one-way delay: 115.922 ms  
Loss rate: 7.60%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-17 04:05:37

End at: 2018-01-17 04:06:07

Local clock offset: 0.838 ms

Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2018-01-17 07:15:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.29 Mbit/s

95th percentile per-packet one-way delay: 117.993 ms

Loss rate: 2.55%

-- Flow 1:

Average throughput: 79.28 Mbit/s

95th percentile per-packet one-way delay: 117.956 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 8.15 Mbit/s

95th percentile per-packet one-way delay: 119.745 ms

Loss rate: 3.54%

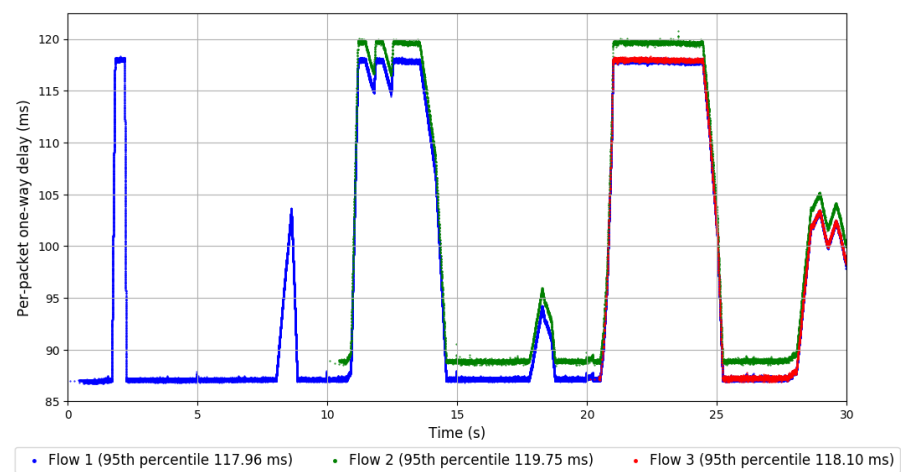
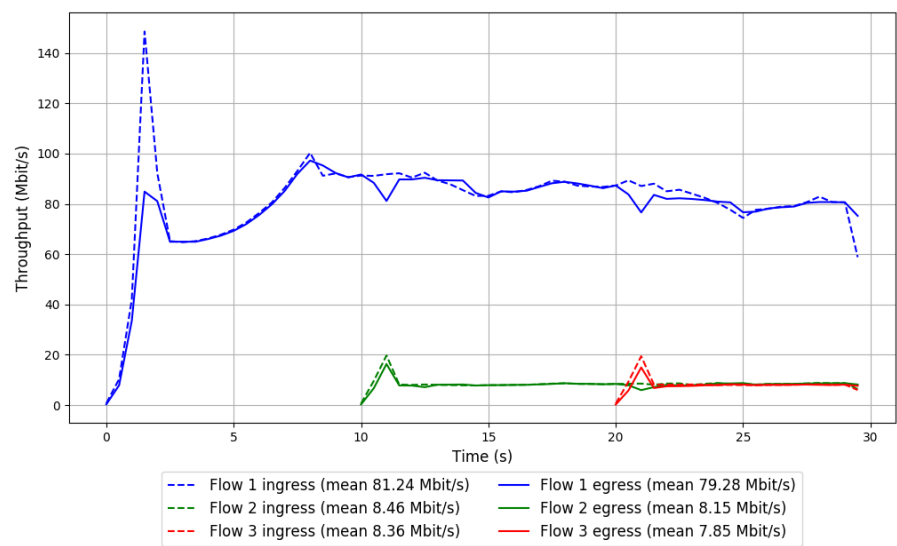
-- Flow 3:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 118.099 ms

Loss rate: 6.00%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-17 04:29:01

End at: 2018-01-17 04:29:31

Local clock offset: 0.825 ms

Remote clock offset: 3.608 ms

# Below is generated by plot.py at 2018-01-17 07:15:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.45 Mbit/s

95th percentile per-packet one-way delay: 121.768 ms

Loss rate: 3.48%

-- Flow 1:

Average throughput: 79.93 Mbit/s

95th percentile per-packet one-way delay: 121.744 ms

Loss rate: 3.00%

-- Flow 2:

Average throughput: 7.39 Mbit/s

95th percentile per-packet one-way delay: 121.758 ms

Loss rate: 6.54%

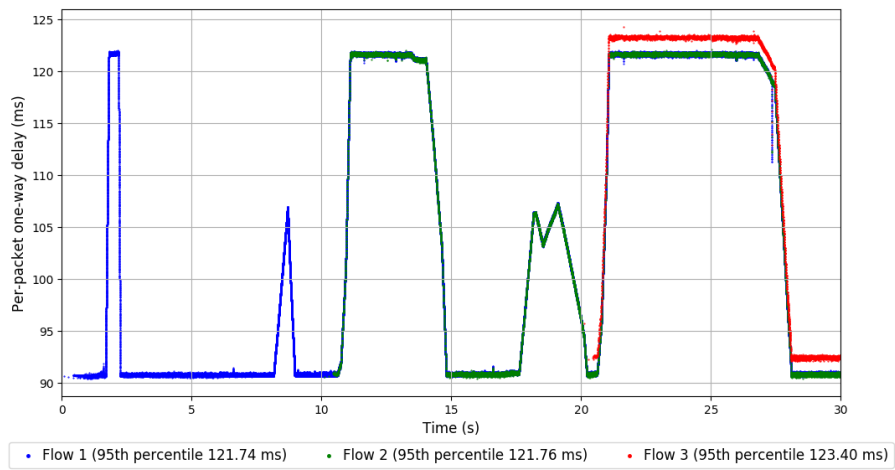
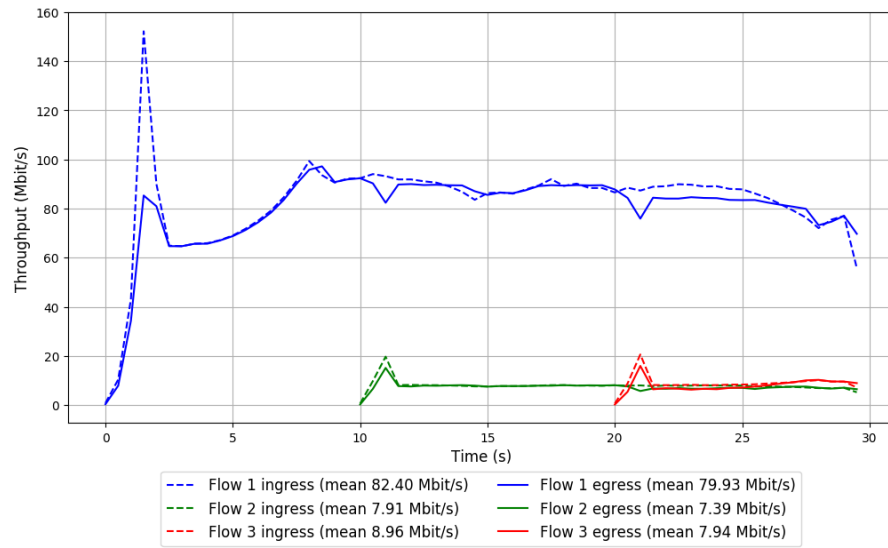
-- Flow 3:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 123.397 ms

Loss rate: 11.49%

# Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-17 04:52:24

End at: 2018-01-17 04:52:54

Local clock offset: 0.658 ms

Remote clock offset: 9.135 ms

# Below is generated by plot.py at 2018-01-17 07:15:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.89 Mbit/s

95th percentile per-packet one-way delay: 129.052 ms

Loss rate: 2.44%

-- Flow 1:

Average throughput: 78.20 Mbit/s

95th percentile per-packet one-way delay: 129.036 ms

Loss rate: 2.32%

-- Flow 2:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 129.276 ms

Loss rate: 2.92%

-- Flow 3:

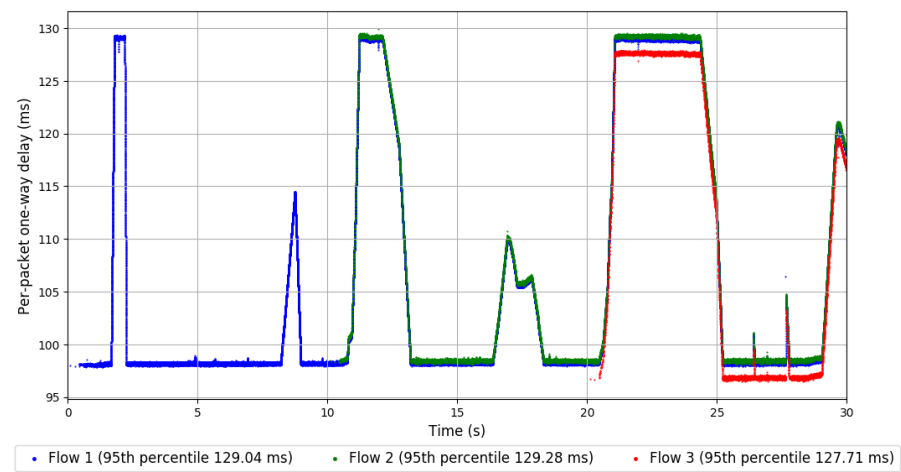
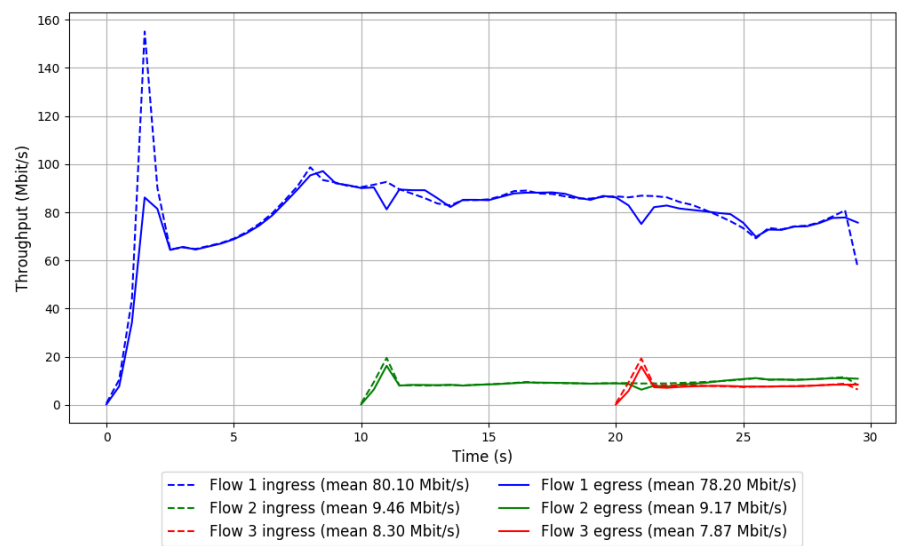
Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 127.711 ms

Loss rate: 4.94%



Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-17 05:15:43

End at: 2018-01-17 05:16:13

Local clock offset: 0.714 ms

Remote clock offset: 0.756 ms

# Below is generated by plot.py at 2018-01-17 07:15:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.53 Mbit/s

95th percentile per-packet one-way delay: 120.614 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 77.95 Mbit/s

95th percentile per-packet one-way delay: 120.578 ms

Loss rate: 2.68%

-- Flow 2:

Average throughput: 8.94 Mbit/s

95th percentile per-packet one-way delay: 121.316 ms

Loss rate: 4.72%

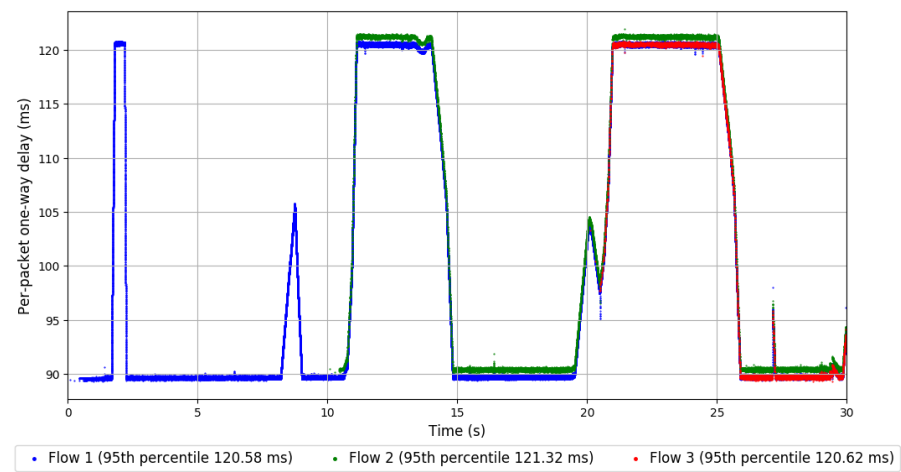
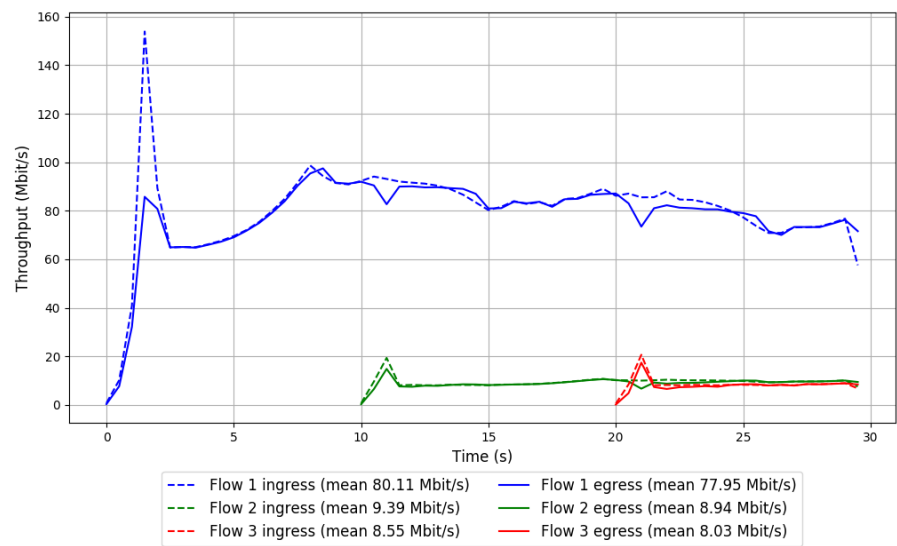
-- Flow 3:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 120.618 ms

Loss rate: 6.17%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-17 05:39:06

End at: 2018-01-17 05:39:36

Local clock offset: 0.675 ms

Remote clock offset: -6.49 ms

# Below is generated by plot.py at 2018-01-17 07:15:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.08 Mbit/s

95th percentile per-packet one-way delay: 111.644 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 79.36 Mbit/s

95th percentile per-packet one-way delay: 111.597 ms

Loss rate: 2.30%

-- Flow 2:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 112.239 ms

Loss rate: 4.04%

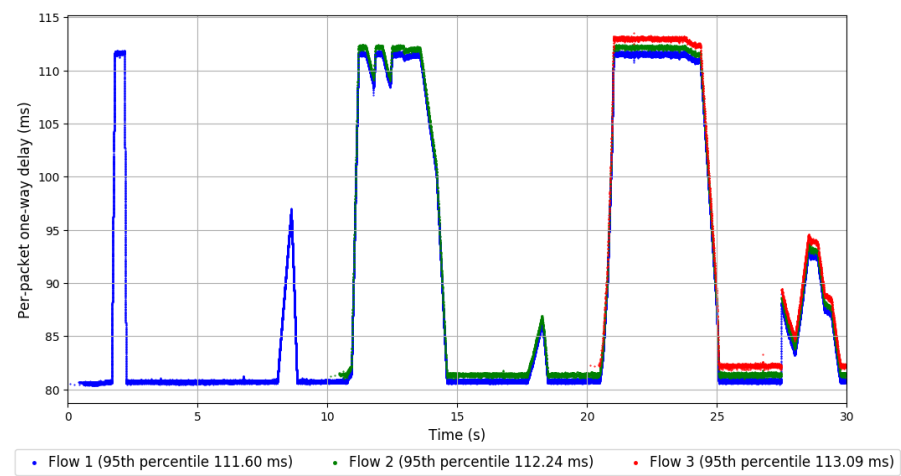
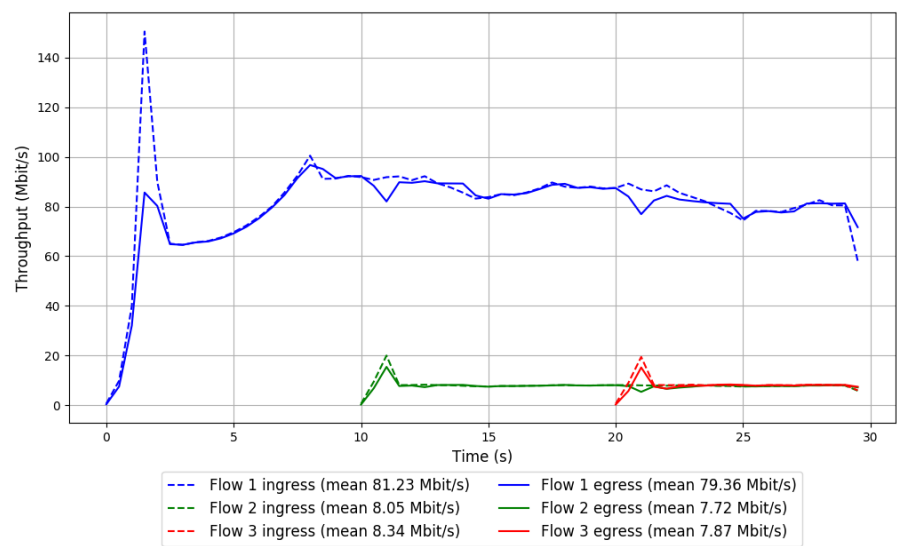
-- Flow 3:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 113.090 ms

Loss rate: 5.66%

Run 8: Report of PCC — Data Link

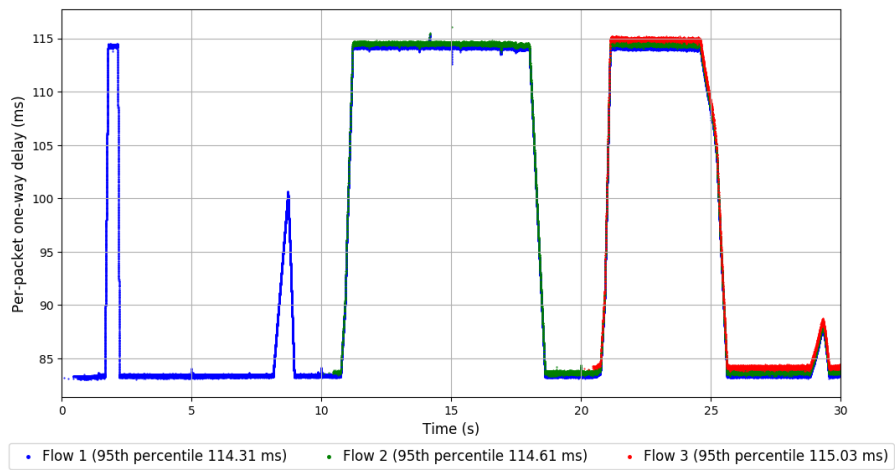
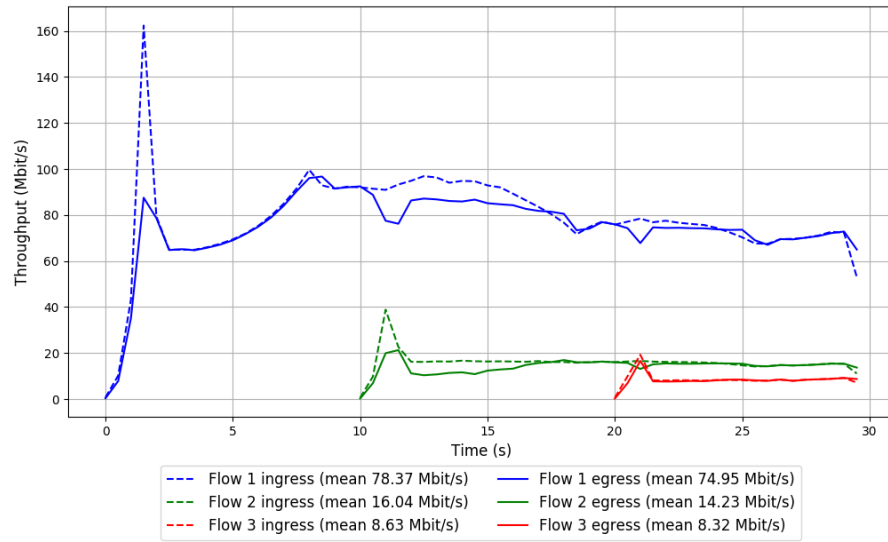


Run 9: Statistics of PCC

Start at: 2018-01-17 06:02:26  
End at: 2018-01-17 06:02:56  
Local clock offset: 0.69 ms  
Remote clock offset: -5.002 ms

# Below is generated by plot.py at 2018-01-17 07:16:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.16 Mbit/s  
95th percentile per-packet one-way delay: 114.431 ms  
Loss rate: 5.14%  
-- Flow 1:  
Average throughput: 74.95 Mbit/s  
95th percentile per-packet one-way delay: 114.311 ms  
Loss rate: 4.36%  
-- Flow 2:  
Average throughput: 14.23 Mbit/s  
95th percentile per-packet one-way delay: 114.613 ms  
Loss rate: 11.28%  
-- Flow 3:  
Average throughput: 8.32 Mbit/s  
95th percentile per-packet one-way delay: 115.026 ms  
Loss rate: 3.58%

# Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-17 06:25:56

End at: 2018-01-17 06:26:26

Local clock offset: 0.739 ms

Remote clock offset: 0.214 ms

# Below is generated by plot.py at 2018-01-17 07:16:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 117.560 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 78.72 Mbit/s

95th percentile per-packet one-way delay: 117.513 ms

Loss rate: 2.67%

-- Flow 2:

Average throughput: 8.19 Mbit/s

95th percentile per-packet one-way delay: 118.722 ms

Loss rate: 4.60%

-- Flow 3:

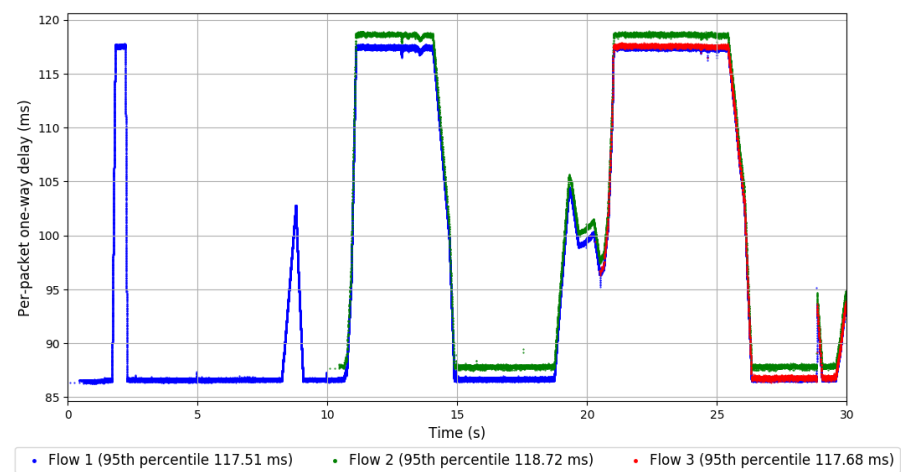
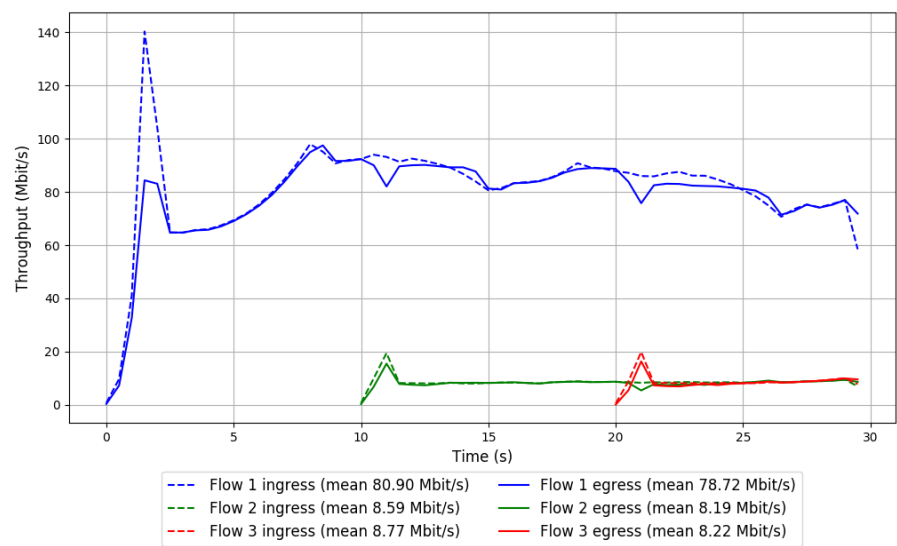
Average throughput: 8.22 Mbit/s

95th percentile per-packet one-way delay: 117.681 ms

Loss rate: 6.23%



Run 10: Report of PCC — Data Link

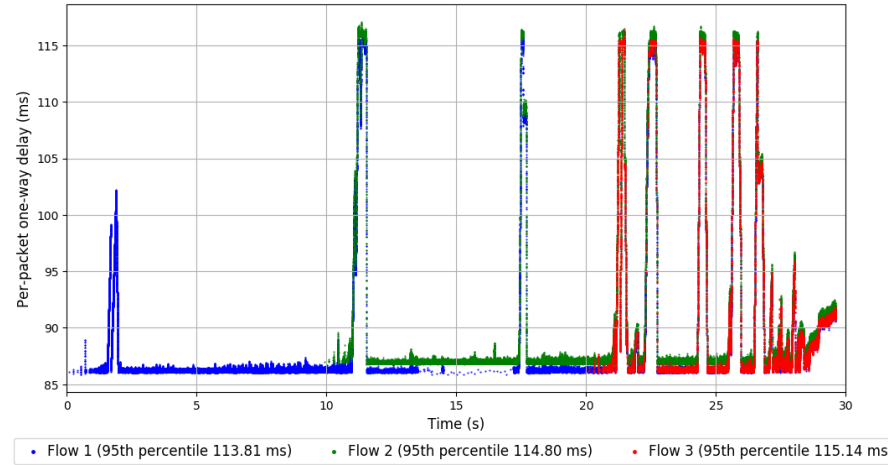
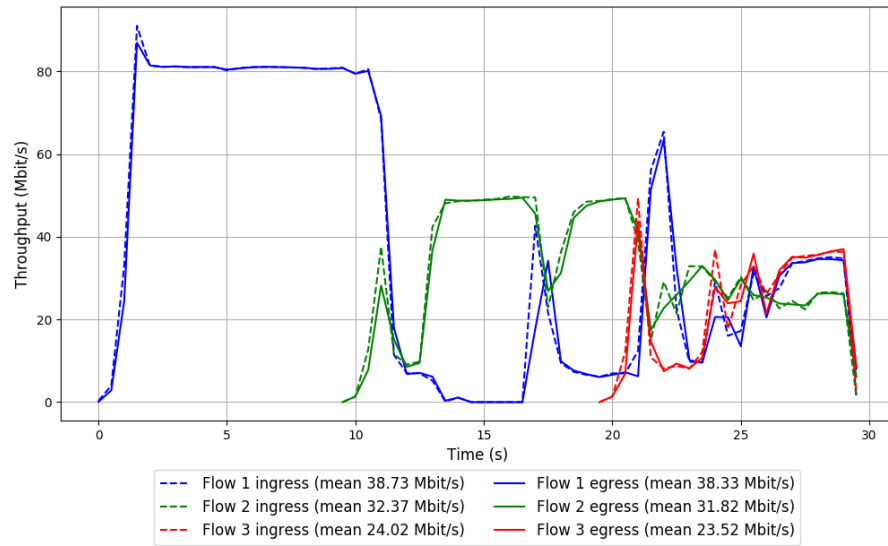


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-17 03:11:24  
End at: 2018-01-17 03:11:54  
Local clock offset: 1.092 ms  
Remote clock offset: -0.619 ms

# Below is generated by plot.py at 2018-01-17 07:16:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.26 Mbit/s  
95th percentile per-packet one-way delay: 114.685 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 38.33 Mbit/s  
95th percentile per-packet one-way delay: 113.810 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 31.82 Mbit/s  
95th percentile per-packet one-way delay: 114.796 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 23.52 Mbit/s  
95th percentile per-packet one-way delay: 115.135 ms  
Loss rate: 2.01%

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



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-17 03:34:37

End at: 2018-01-17 03:35:07

Local clock offset: 0.978 ms

Remote clock offset: -1.03 ms

# Below is generated by plot.py at 2018-01-17 07:16:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.29 Mbit/s

95th percentile per-packet one-way delay: 115.226 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 40.92 Mbit/s

95th percentile per-packet one-way delay: 116.046 ms

Loss rate: 0.52%

-- Flow 2:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 113.456 ms

Loss rate: 0.26%

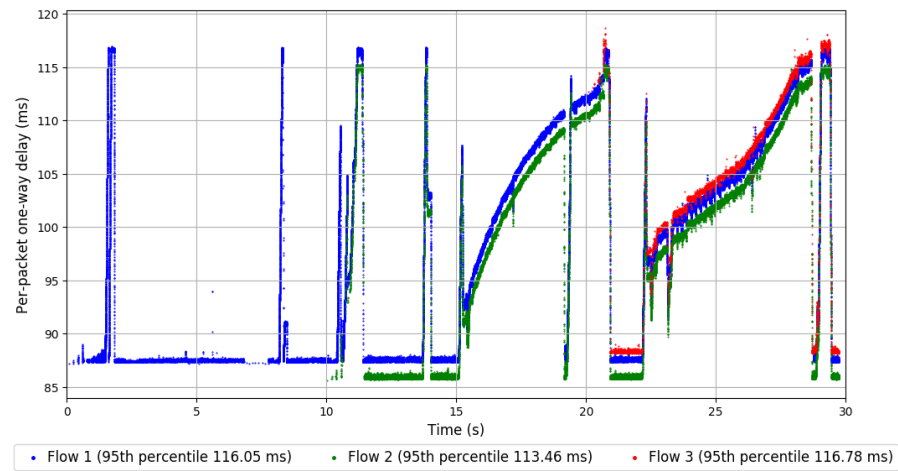
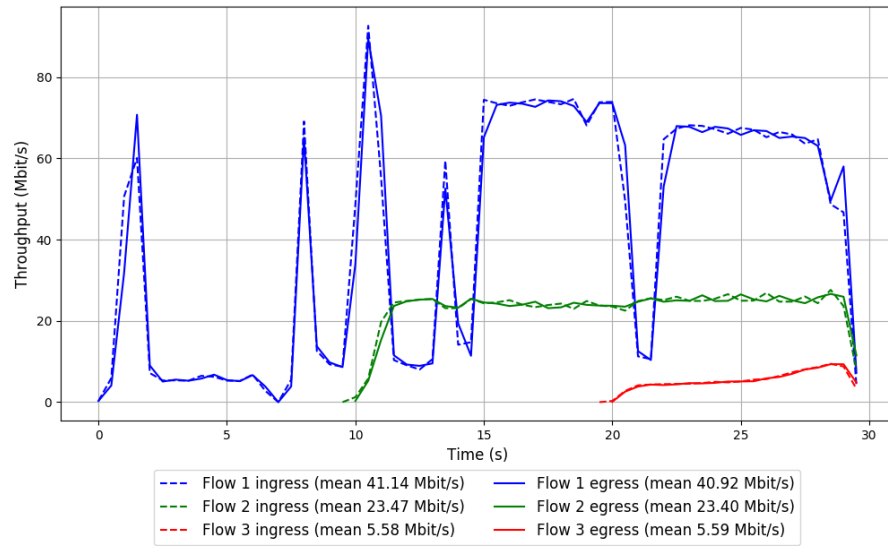
-- Flow 3:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 116.782 ms

Loss rate: 0.04%

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

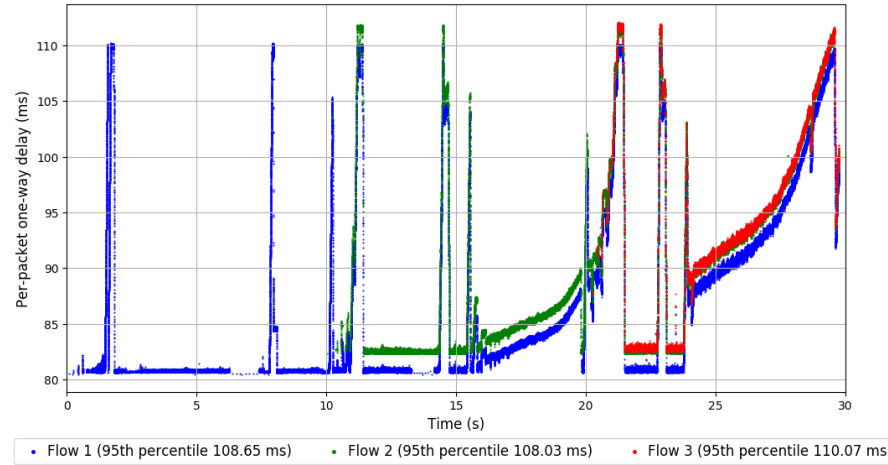
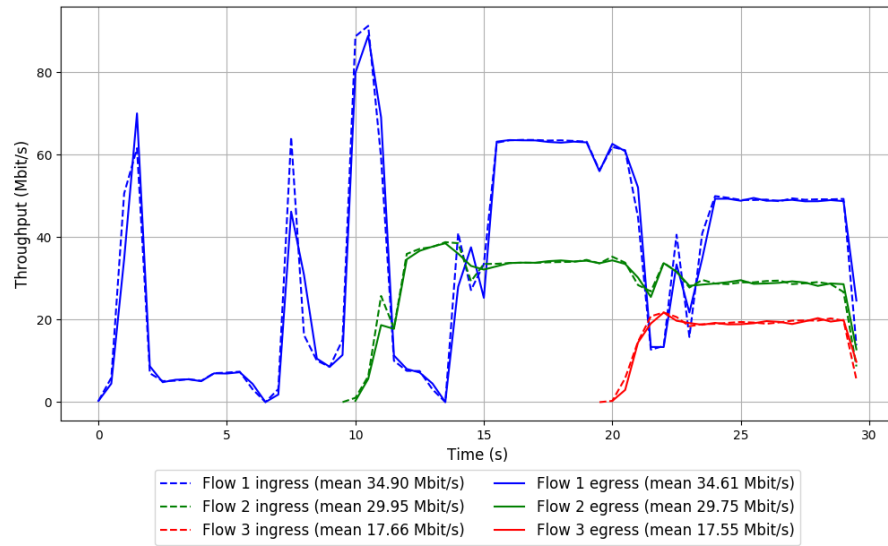


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-17 03:57:56  
End at: 2018-01-17 03:58:26  
Local clock offset: 0.873 ms  
Remote clock offset: -6.551 ms

# Below is generated by plot.py at 2018-01-17 07:16:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.11 Mbit/s  
95th percentile per-packet one-way delay: 108.655 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 34.61 Mbit/s  
95th percentile per-packet one-way delay: 108.646 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 29.75 Mbit/s  
95th percentile per-packet one-way delay: 108.030 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 17.55 Mbit/s  
95th percentile per-packet one-way delay: 110.074 ms  
Loss rate: 0.58%

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



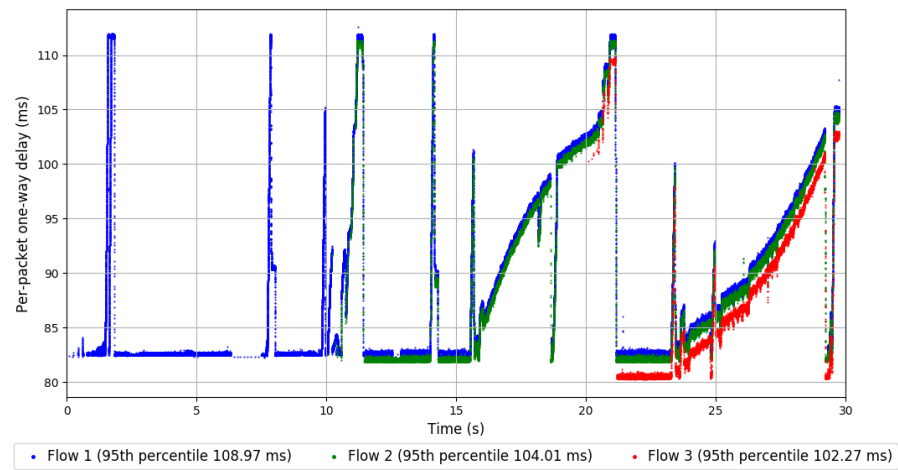
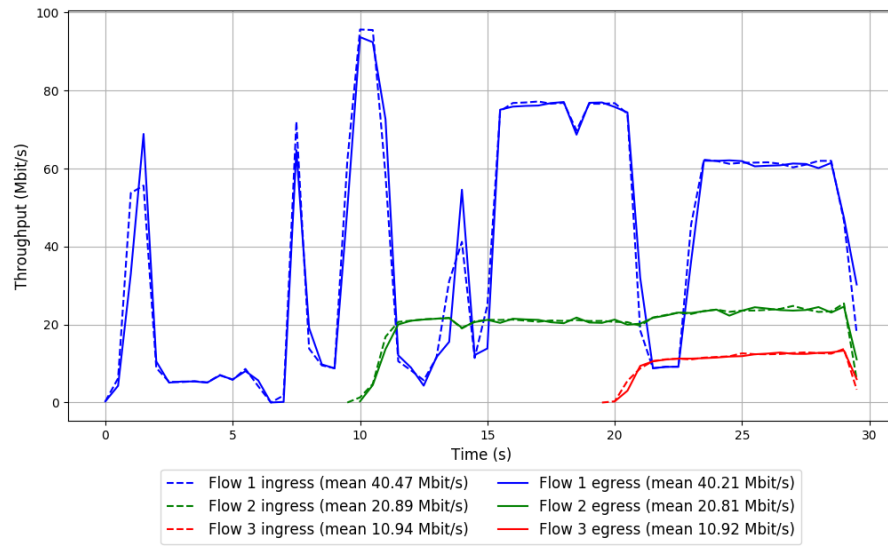
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-17 04:21:14  
End at: 2018-01-17 04:21:44  
Local clock offset: 0.864 ms  
Remote clock offset: -6.432 ms

# Below is generated by plot.py at 2018-01-17 07:16:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.60 Mbit/s  
95th percentile per-packet one-way delay: 108.037 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 40.21 Mbit/s  
95th percentile per-packet one-way delay: 108.969 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 20.81 Mbit/s  
95th percentile per-packet one-way delay: 104.014 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 10.92 Mbit/s  
95th percentile per-packet one-way delay: 102.265 ms  
Loss rate: 0.16%



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



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-17 04:44:38

End at: 2018-01-17 04:45:08

Local clock offset: 0.677 ms

Remote clock offset: 3.304 ms

# Below is generated by plot.py at 2018-01-17 07:16:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.93 Mbit/s

95th percentile per-packet one-way delay: 117.974 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 38.49 Mbit/s

95th percentile per-packet one-way delay: 119.139 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 22.85 Mbit/s

95th percentile per-packet one-way delay: 115.313 ms

Loss rate: 0.23%

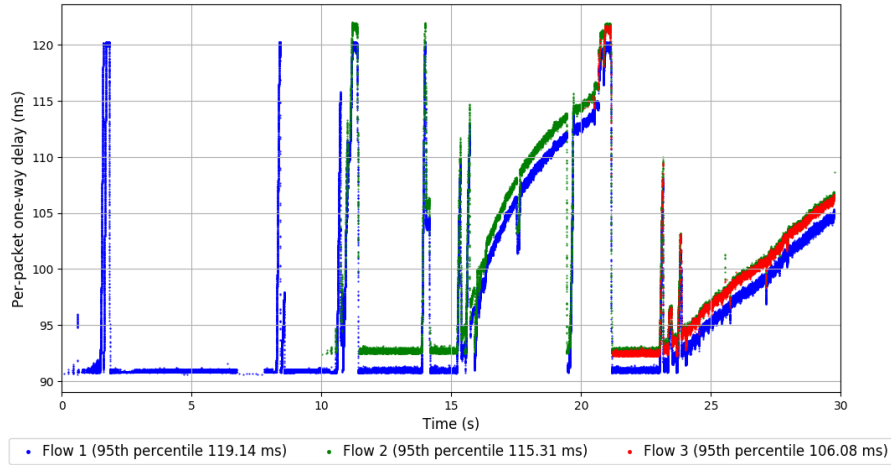
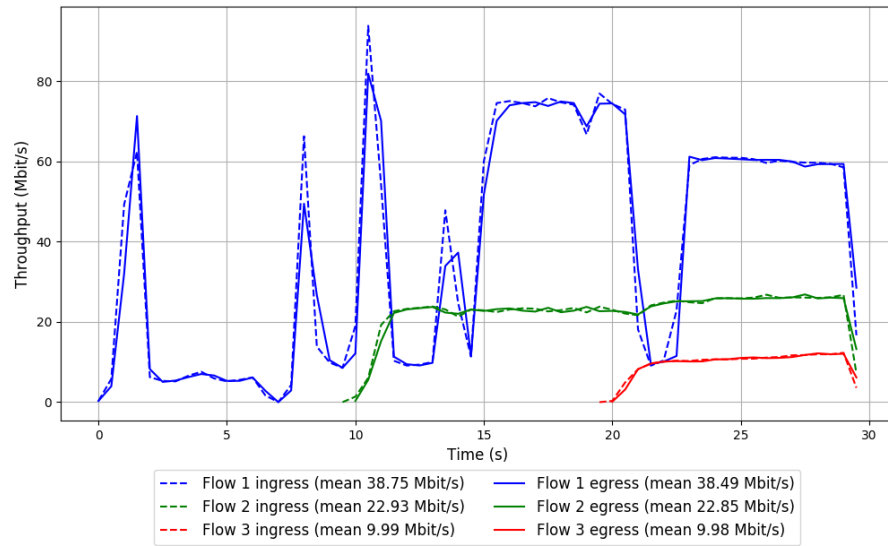
-- Flow 3:

Average throughput: 9.98 Mbit/s

95th percentile per-packet one-way delay: 106.079 ms

Loss rate: 0.11%

## Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-17 05:08:02

End at: 2018-01-17 05:08:32

Local clock offset: 0.651 ms

Remote clock offset: 1.145 ms

# Below is generated by plot.py at 2018-01-17 07:16:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 110.372 ms

Loss rate: 0.54%

-- Flow 1:

Average throughput: 44.29 Mbit/s

95th percentile per-packet one-way delay: 110.635 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 10.10 Mbit/s

95th percentile per-packet one-way delay: 108.621 ms

Loss rate: 0.28%

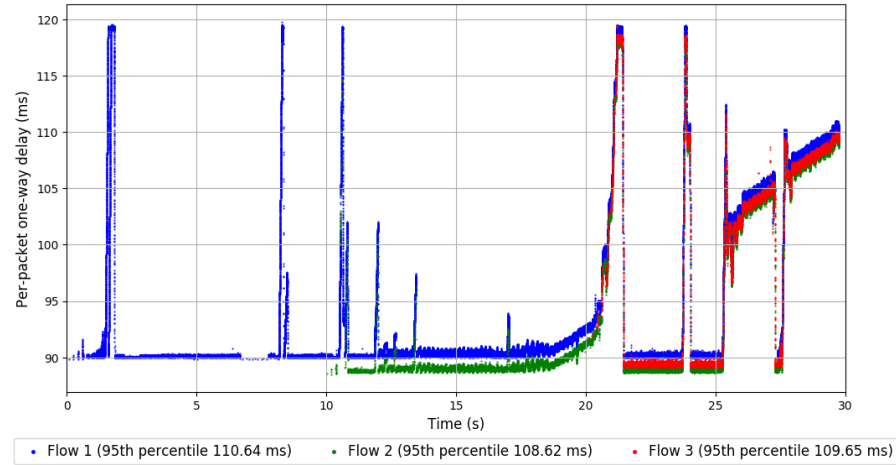
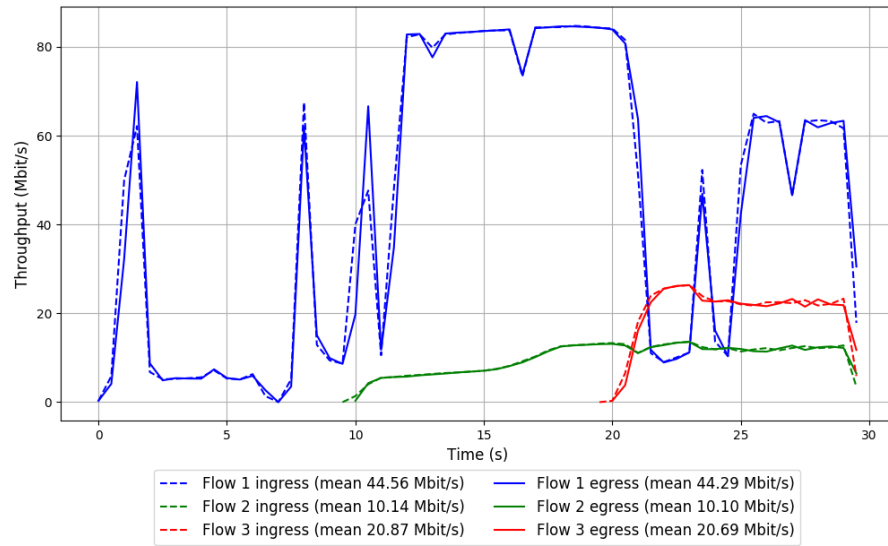
-- Flow 3:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 109.648 ms

Loss rate: 0.67%

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



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-17 05:31:23

End at: 2018-01-17 05:31:53

Local clock offset: 0.651 ms

Remote clock offset: 0.179 ms

# Below is generated by plot.py at 2018-01-17 07:17:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.78 Mbit/s

95th percentile per-packet one-way delay: 116.482 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 117.527 ms

Loss rate: 1.04%

-- Flow 2:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 115.215 ms

Loss rate: 0.67%

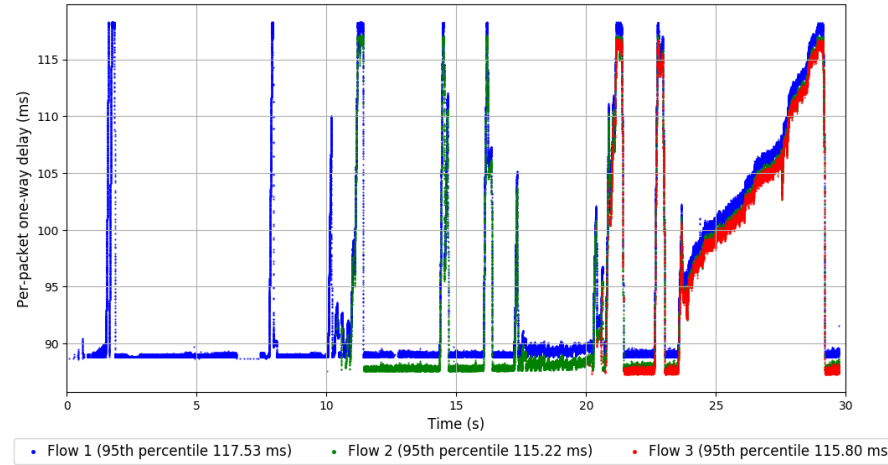
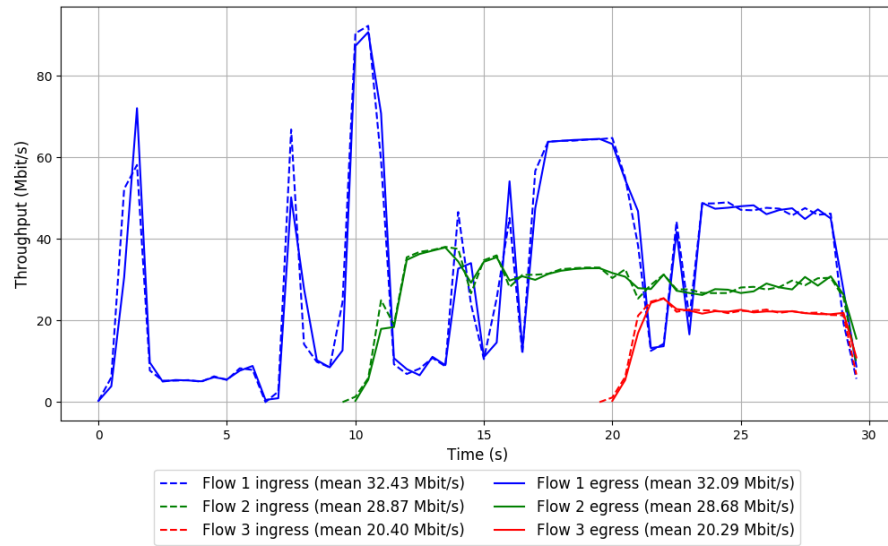
-- Flow 3:

Average throughput: 20.29 Mbit/s

95th percentile per-packet one-way delay: 115.799 ms

Loss rate: 0.55%

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



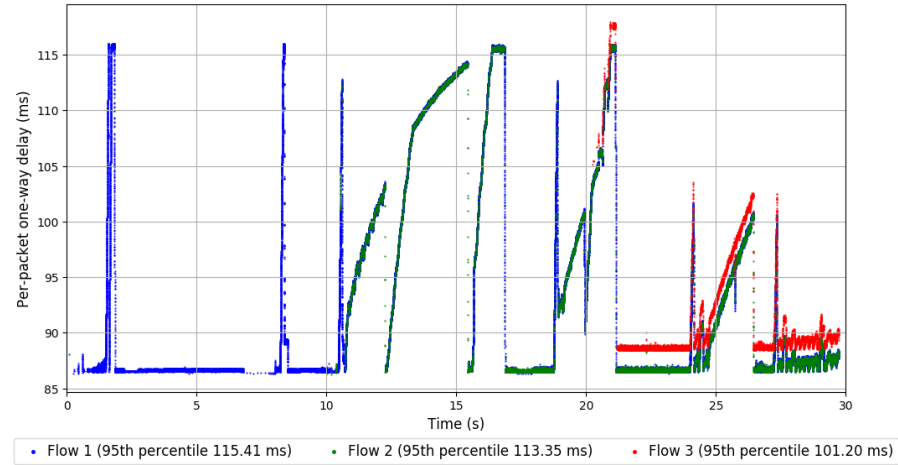
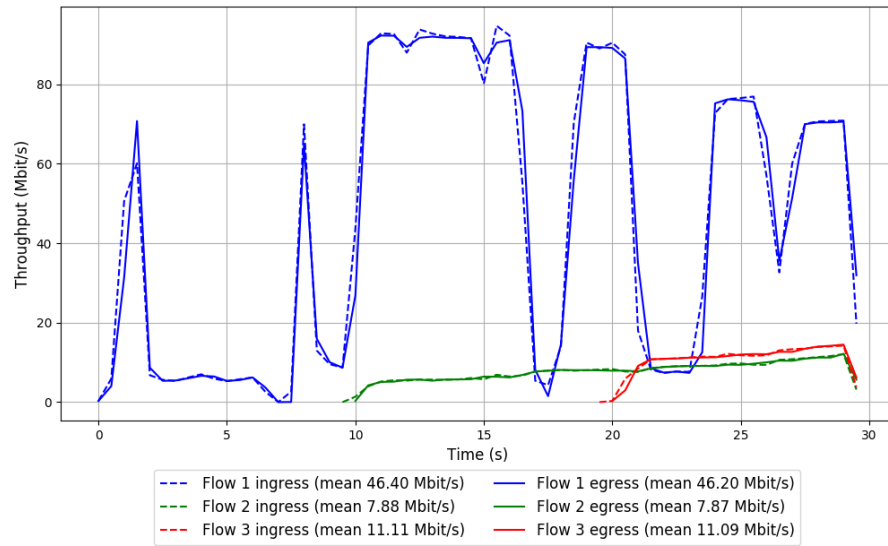
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-17 05:54:45  
End at: 2018-01-17 05:55:15  
Local clock offset: 0.598 ms  
Remote clock offset: -0.618 ms

# Below is generated by plot.py at 2018-01-17 07:17:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.05 Mbit/s  
95th percentile per-packet one-way delay: 115.277 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 46.20 Mbit/s  
95th percentile per-packet one-way delay: 115.406 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 7.87 Mbit/s  
95th percentile per-packet one-way delay: 113.353 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 11.09 Mbit/s  
95th percentile per-packet one-way delay: 101.201 ms  
Loss rate: 0.25%



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

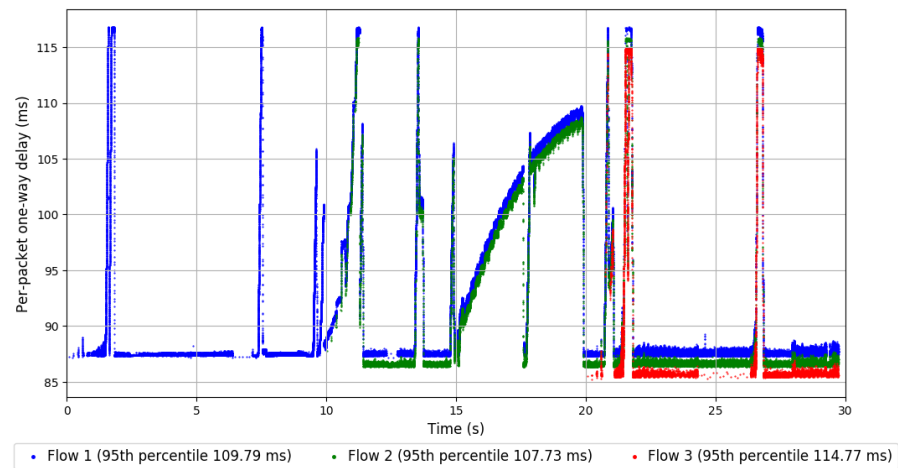
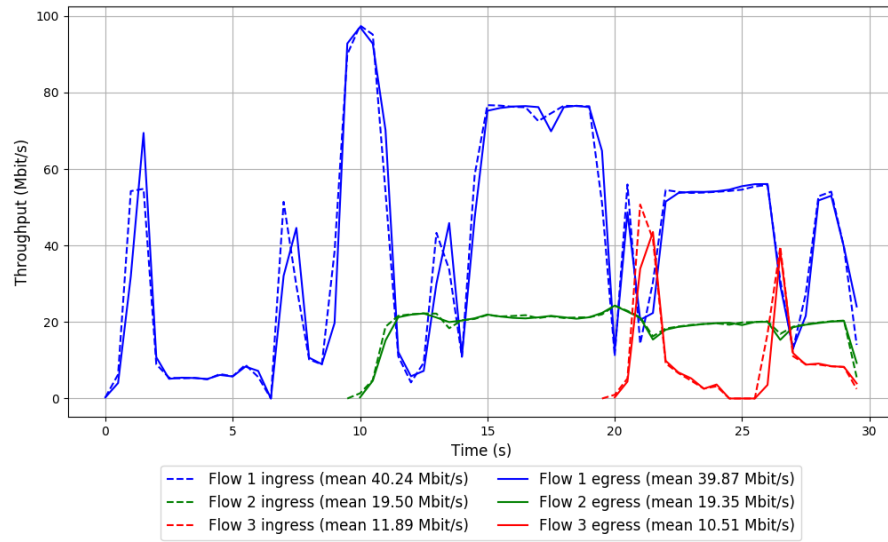


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-17 06:18:14  
End at: 2018-01-17 06:18:44  
Local clock offset: 0.729 ms  
Remote clock offset: -0.534 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 56.15 Mbit/s  
95th percentile per-packet one-way delay: 111.259 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 39.87 Mbit/s  
95th percentile per-packet one-way delay: 109.792 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 19.35 Mbit/s  
95th percentile per-packet one-way delay: 107.729 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 10.51 Mbit/s  
95th percentile per-packet one-way delay: 114.766 ms  
Loss rate: 11.63%

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

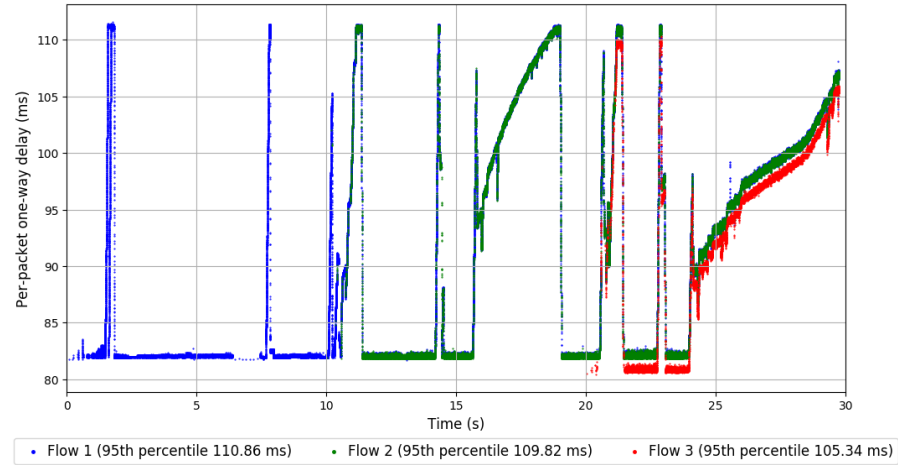
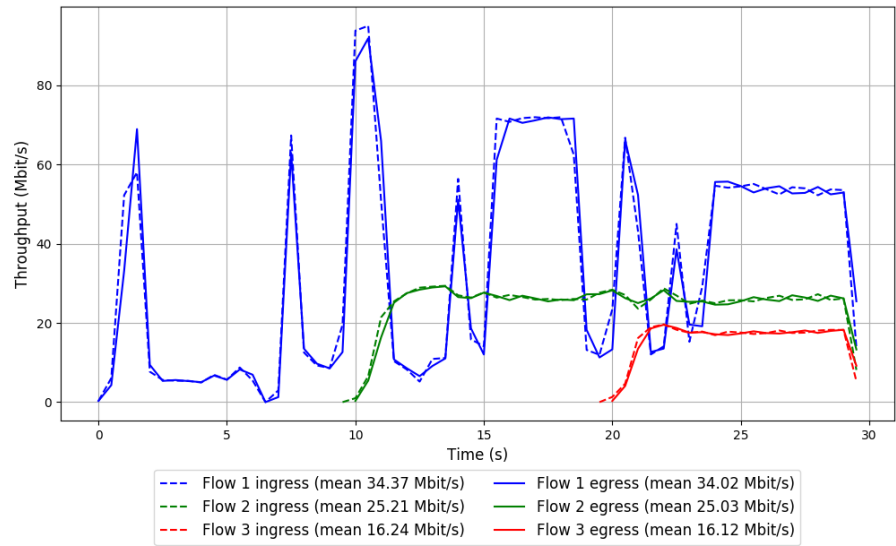


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-17 06:41:27  
End at: 2018-01-17 06:41:57  
Local clock offset: 0.608 ms  
Remote clock offset: -5.351 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.94 Mbit/s  
95th percentile per-packet one-way delay: 110.632 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 34.02 Mbit/s  
95th percentile per-packet one-way delay: 110.862 ms  
Loss rate: 0.95%  
-- Flow 2:  
Average throughput: 25.03 Mbit/s  
95th percentile per-packet one-way delay: 109.821 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 16.12 Mbit/s  
95th percentile per-packet one-way delay: 105.345 ms  
Loss rate: 0.48%

# Run 10: Report of QUIC Cubic — Data Link

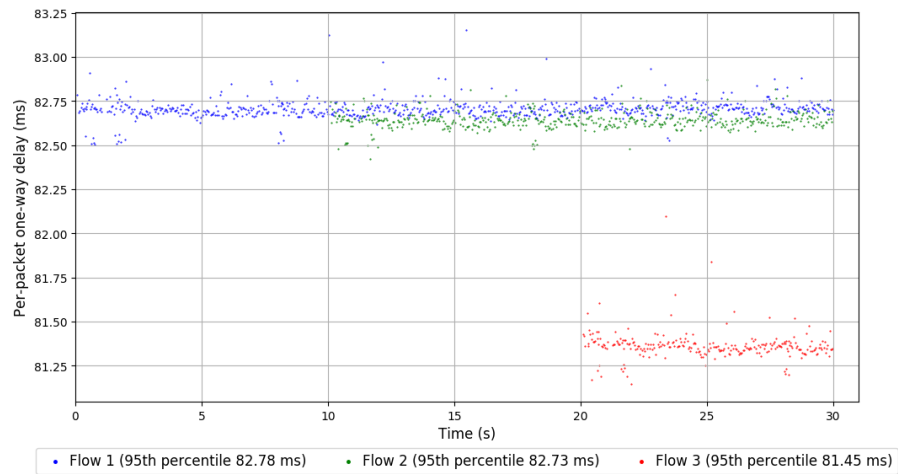
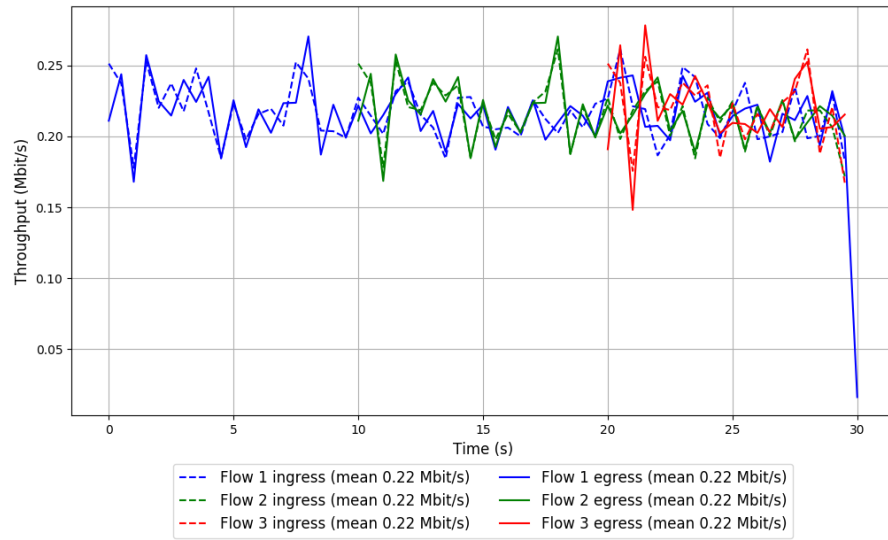


Run 1: Statistics of SReAM

Start at: 2018-01-17 03:03:47  
End at: 2018-01-17 03:04:17  
Local clock offset: 1.008 ms  
Remote clock offset: -5.171 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 82.759 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 82.779 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 82.729 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.449 ms  
Loss rate: 0.00%

## Run 1: Report of SReAM — Data Link



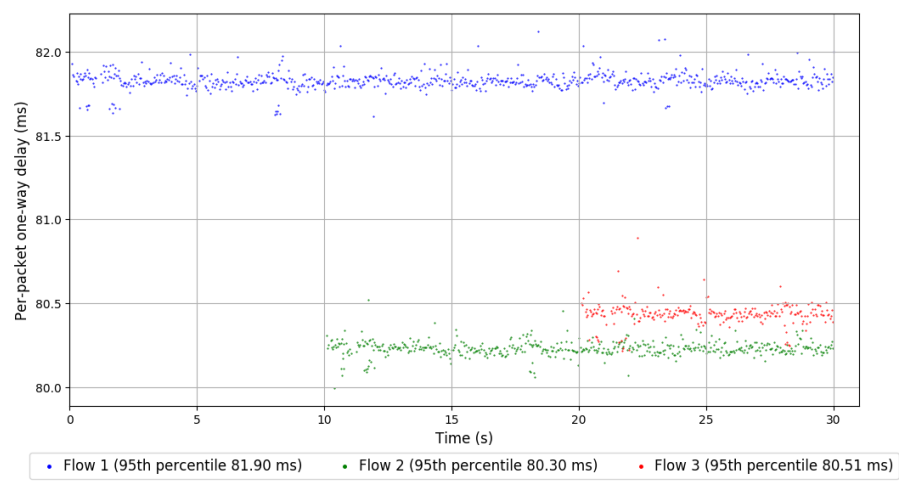
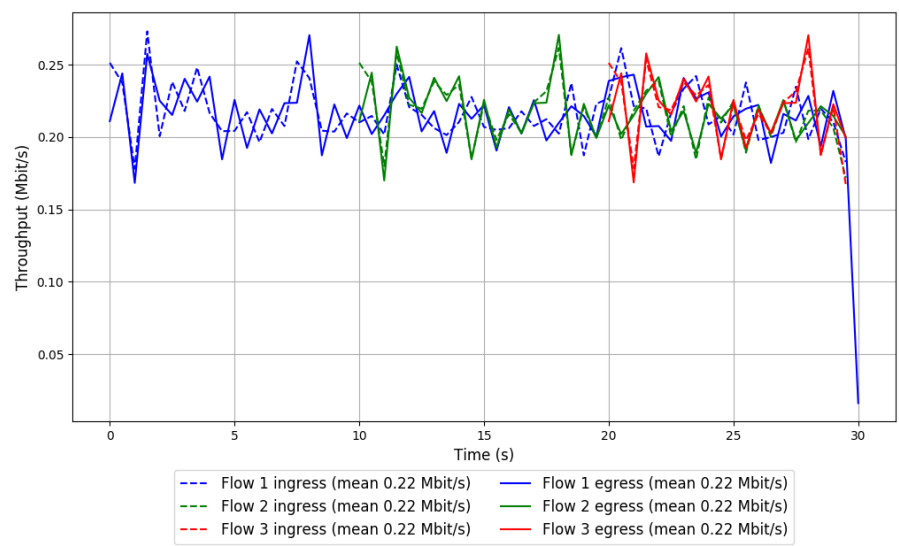
Run 2: Statistics of SReAM

Start at: 2018-01-17 03:26:58  
End at: 2018-01-17 03:27:28  
Local clock offset: 0.999 ms  
Remote clock offset: -6.535 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 81.871 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.903 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.296 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.507 ms  
Loss rate: 0.00%



Run 2: Report of SReAM — Data Link

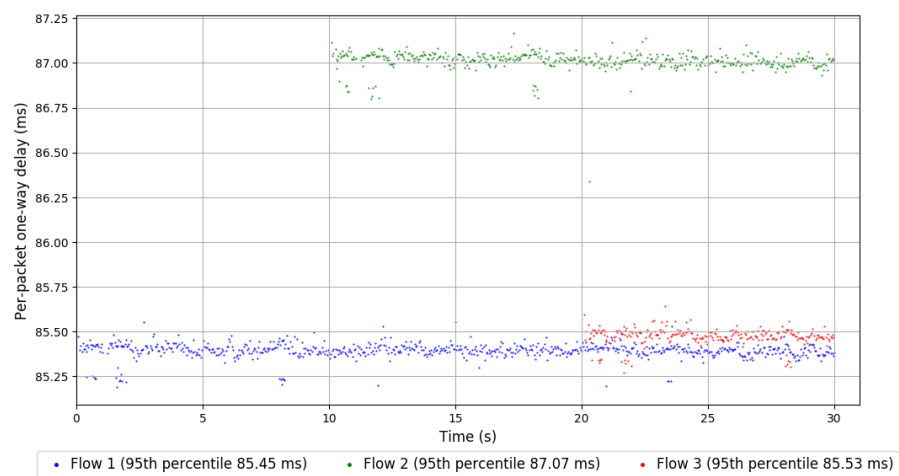
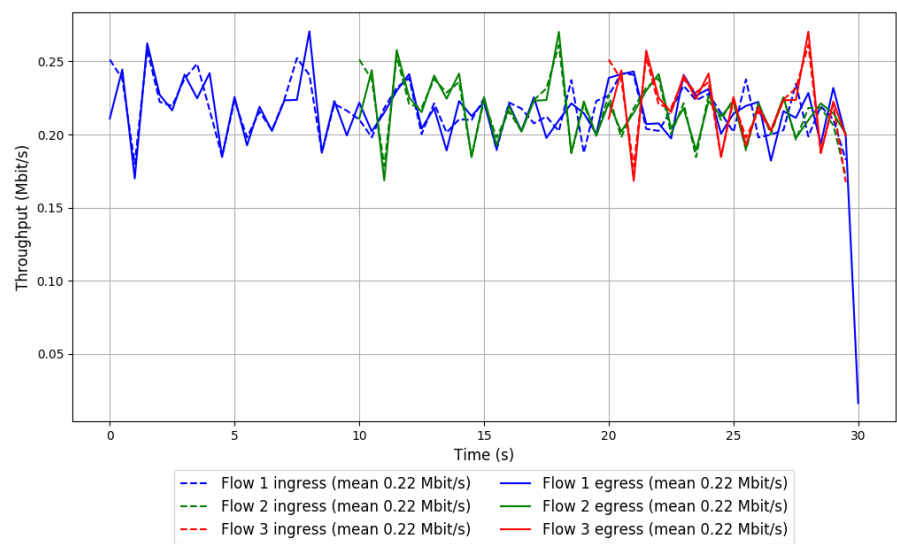


Run 3: Statistics of SReAM

Start at: 2018-01-17 03:50:15  
End at: 2018-01-17 03:50:45  
Local clock offset: 0.881 ms  
Remote clock offset: -1.914 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 87.047 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.449 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 87.066 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.535 ms  
Loss rate: 0.00%

Run 3: Report of SCRaM — Data Link

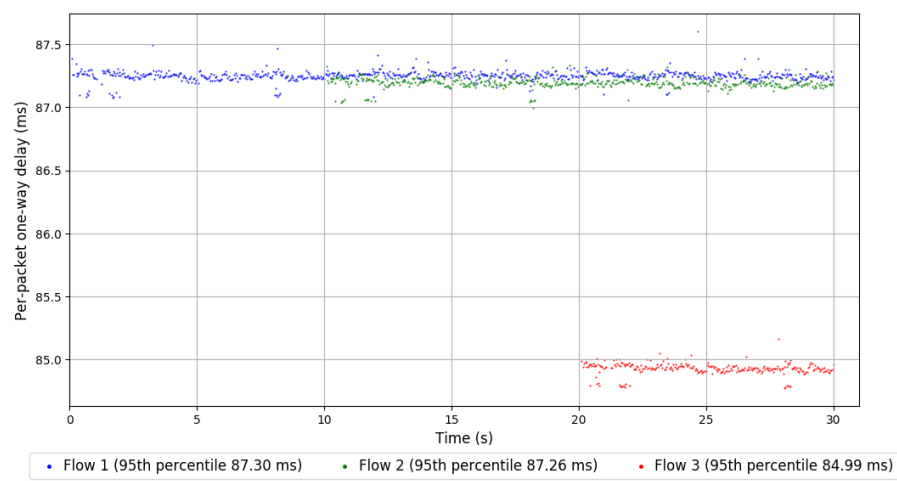
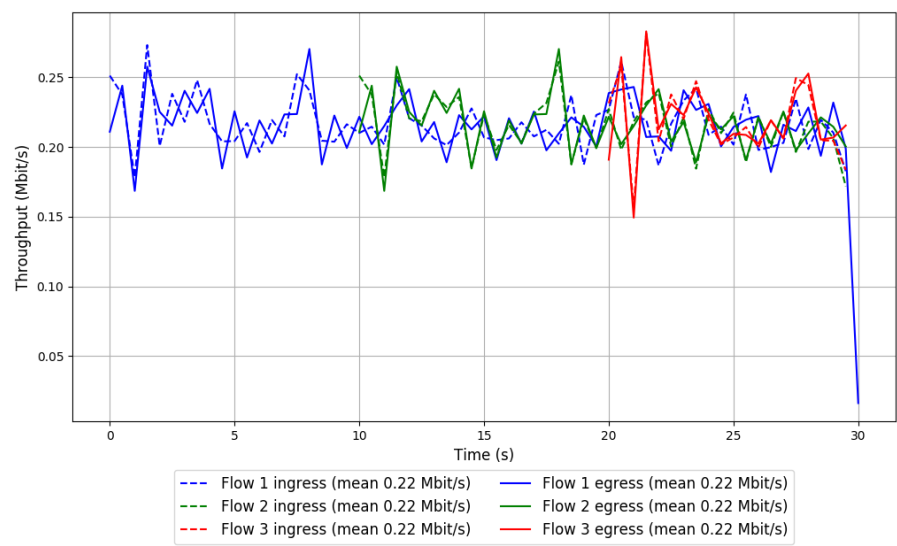


Run 4: Statistics of SReAM

Start at: 2018-01-17 04:13:27  
End at: 2018-01-17 04:13:57  
Local clock offset: 0.811 ms  
Remote clock offset: -1.468 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 87.288 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 87.298 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 87.257 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 84.990 ms  
Loss rate: 0.00%

Run 4: Report of SCReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-17 04:36:50

End at: 2018-01-17 04:37:20

Local clock offset: 0.774 ms

Remote clock offset: 4.391 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 93.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.999 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.831 ms

Loss rate: 0.00%

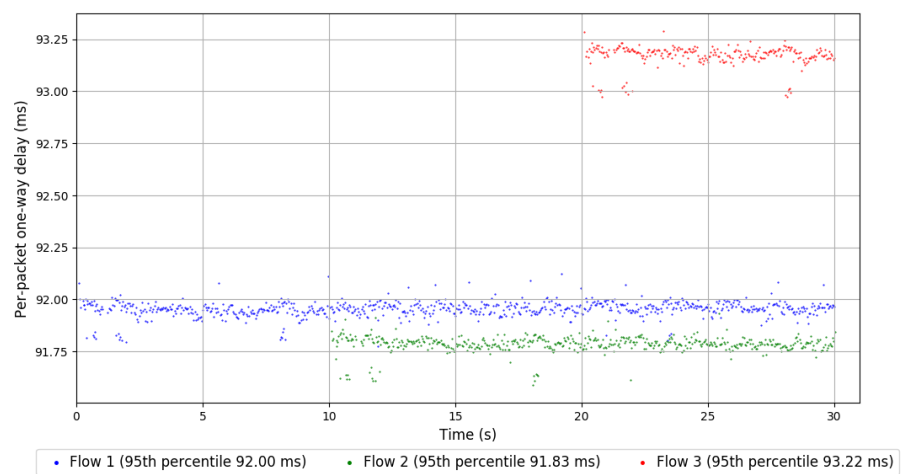
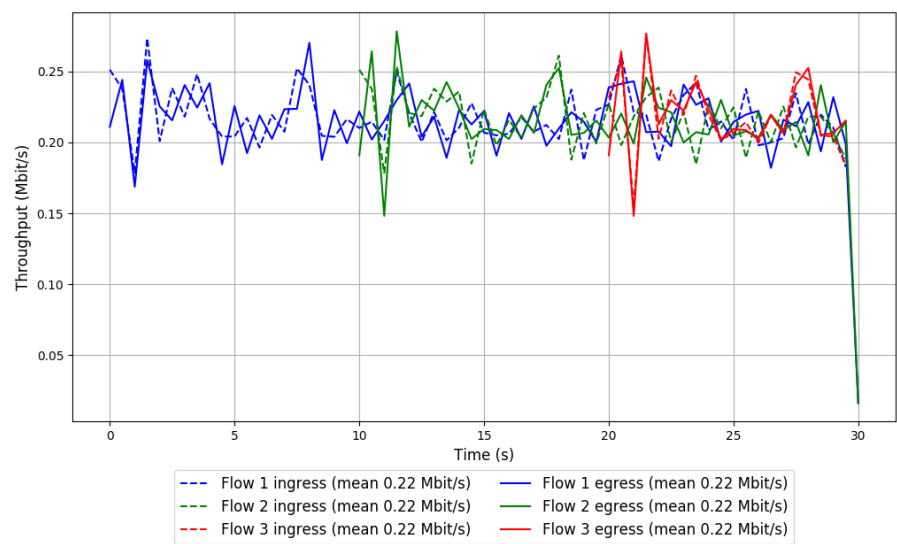
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.219 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-17 05:00:15

End at: 2018-01-17 05:00:45

Local clock offset: 0.63 ms

Remote clock offset: 9.105 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 98.526 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.537 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.181 ms

Loss rate: 0.00%

-- Flow 3:

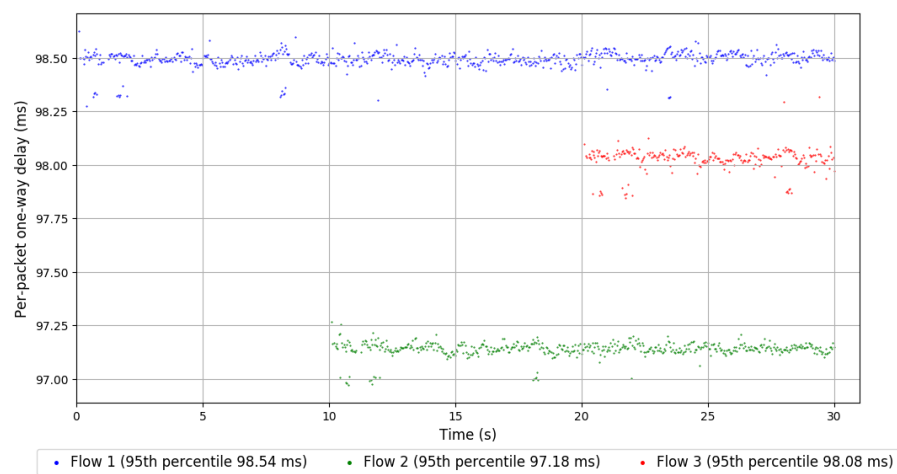
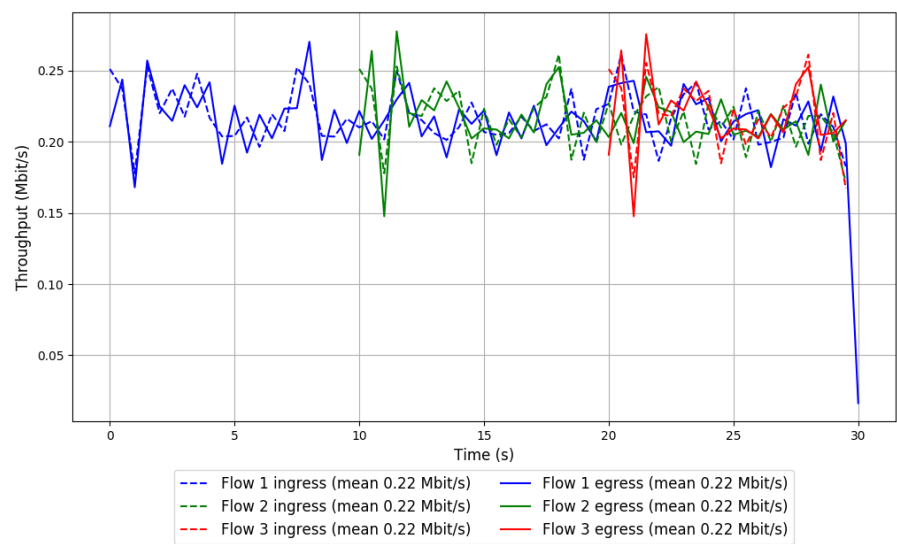
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.076 ms

Loss rate: 0.00%



Run 6: Report of SReAM — Data Link

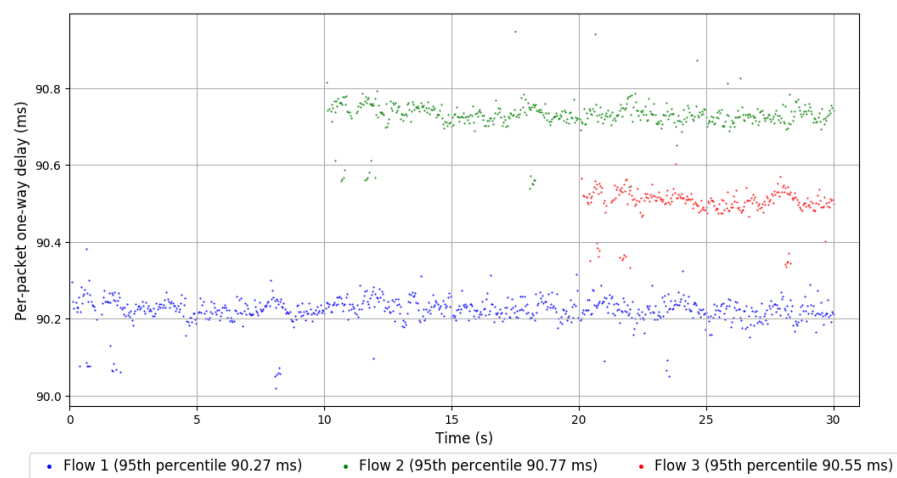
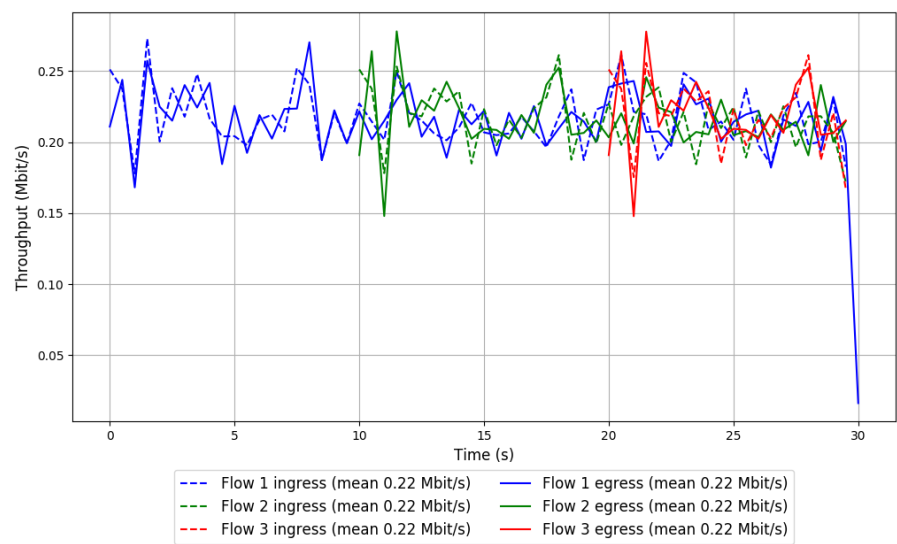


Run 7: Statistics of SReAM

Start at: 2018-01-17 05:23:34  
End at: 2018-01-17 05:24:04  
Local clock offset: 0.697 ms  
Remote clock offset: 1.428 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 90.755 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 90.266 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 90.770 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 90.545 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-17 05:46:57

End at: 2018-01-17 05:47:27

Local clock offset: 0.652 ms

Remote clock offset: -5.68 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 82.812 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.039 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 82.825 ms

Loss rate: 0.00%

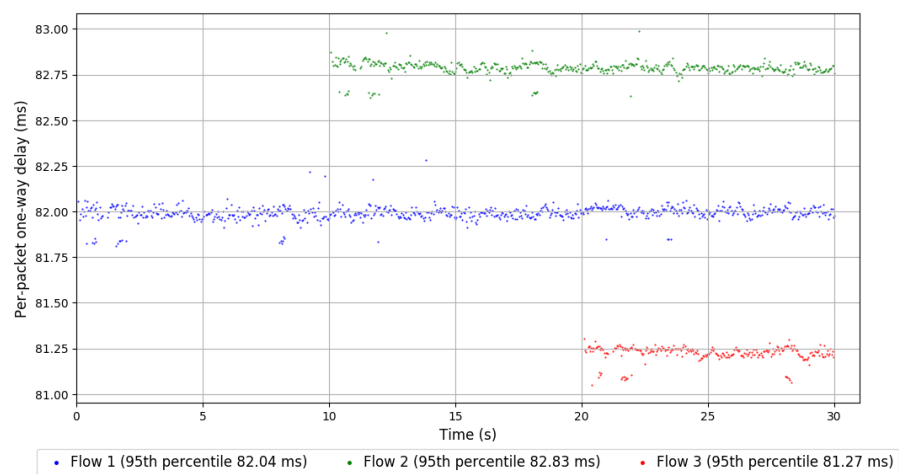
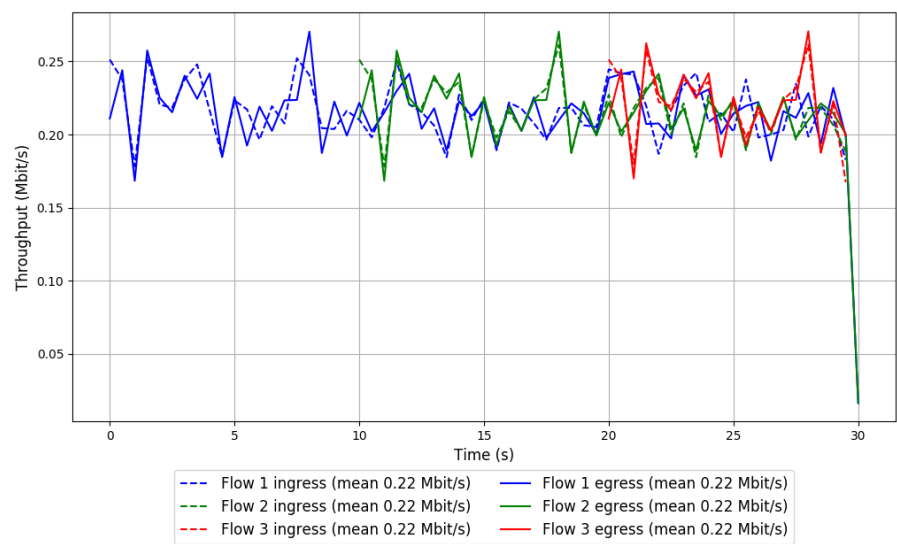
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.267 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

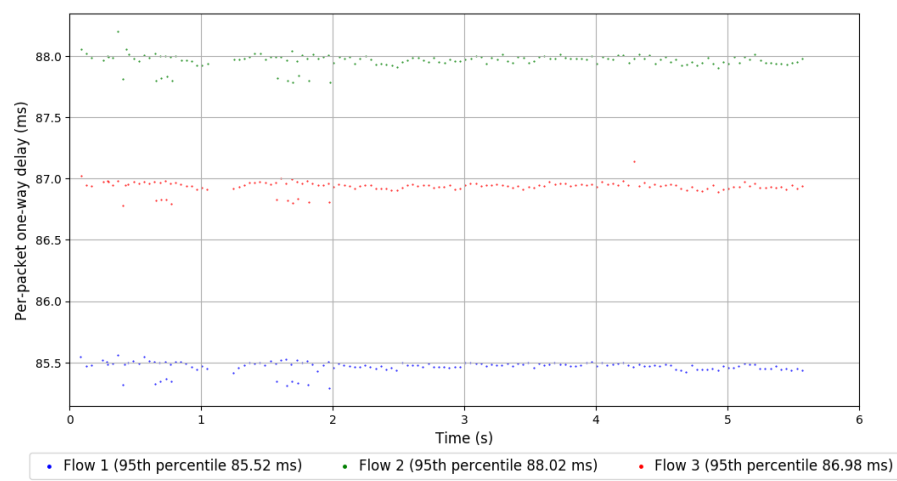
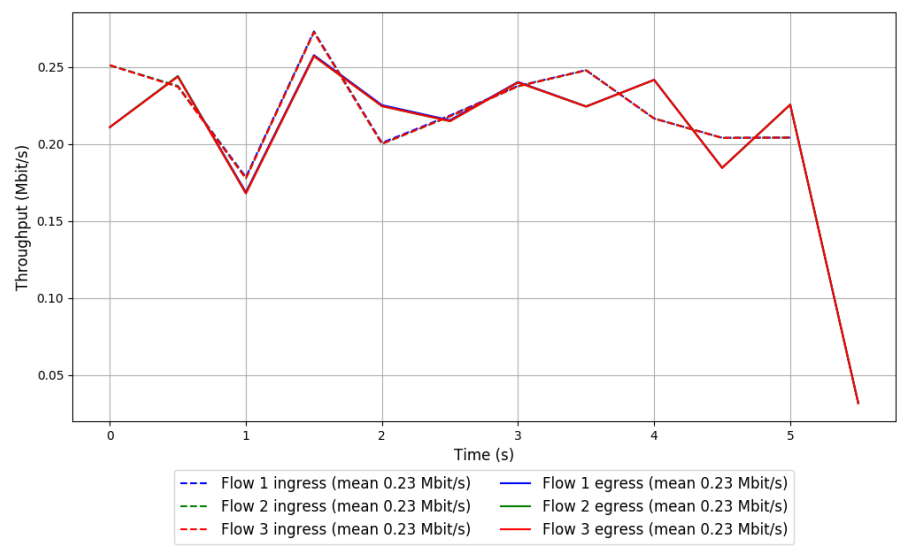
Start at: 2018-01-17 06:10:25

End at: 2018-01-17 06:10:55

Local clock offset: 0.716 ms

Remote clock offset: -0.747 ms

Run 9: Report of SReAM — Data Link



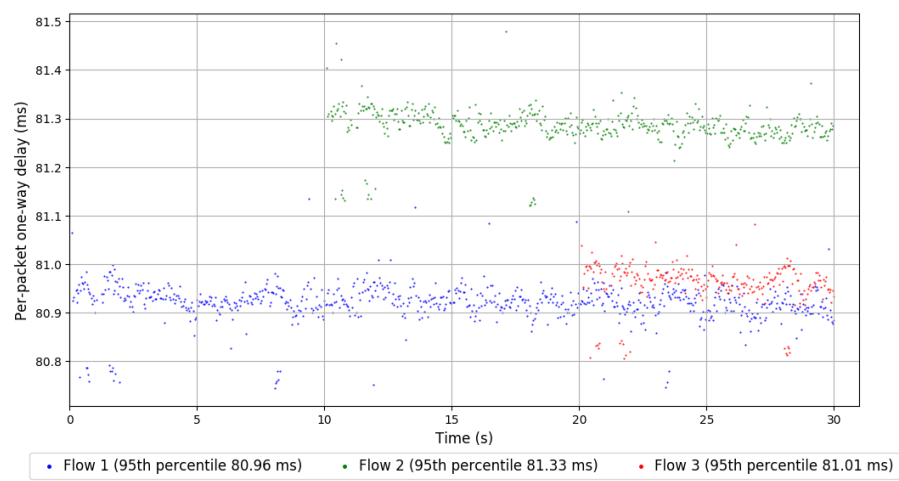
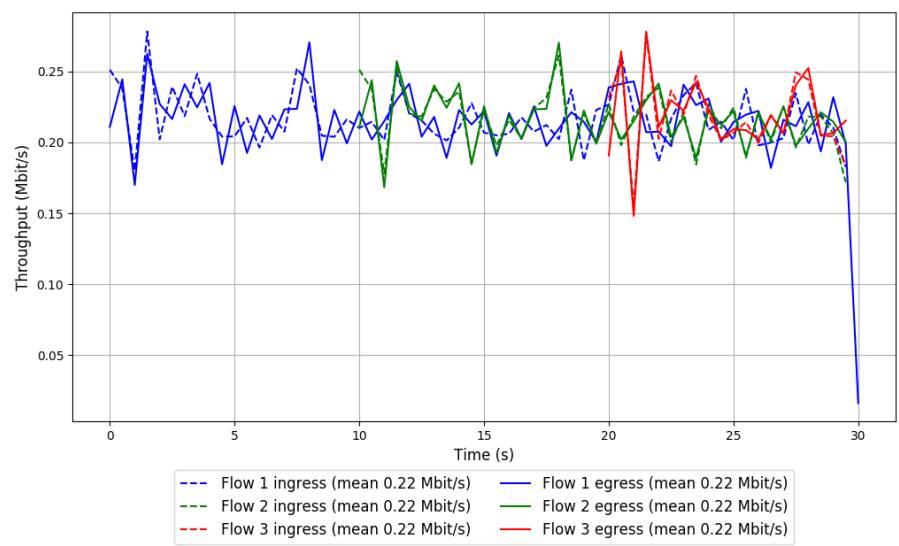
Run 10: Statistics of SReAM

Start at: 2018-01-17 06:33:46  
End at: 2018-01-17 06:34:16  
Local clock offset: 0.653 ms  
Remote clock offset: -4.526 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 81.312 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 80.964 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.326 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 81.006 ms  
Loss rate: 0.00%



Run 10: Report of SCReAM — Data Link

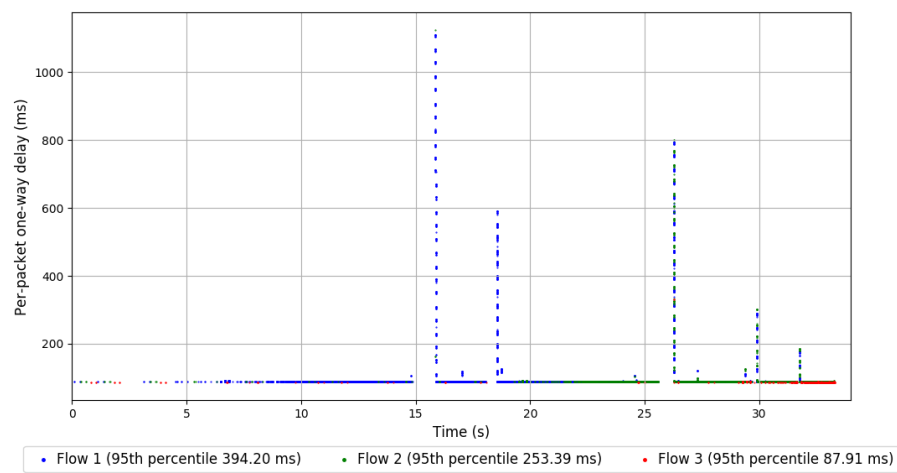
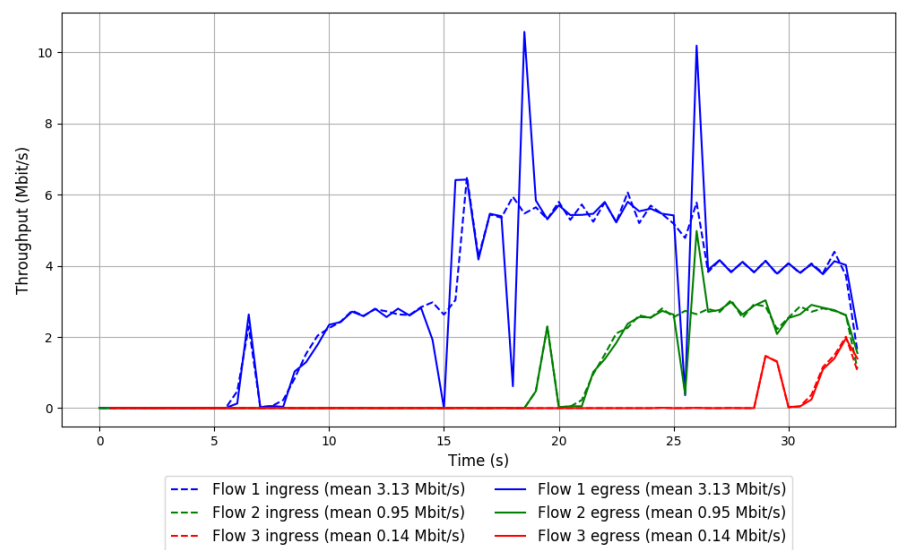


Run 1: Statistics of WebRTC media

Start at: 2018-01-17 03:06:15  
End at: 2018-01-17 03:06:45  
Local clock offset: 1.006 ms  
Remote clock offset: -0.371 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.21 Mbit/s  
95th percentile per-packet one-way delay: 351.976 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.13 Mbit/s  
95th percentile per-packet one-way delay: 394.200 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.95 Mbit/s  
95th percentile per-packet one-way delay: 253.390 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 87.914 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

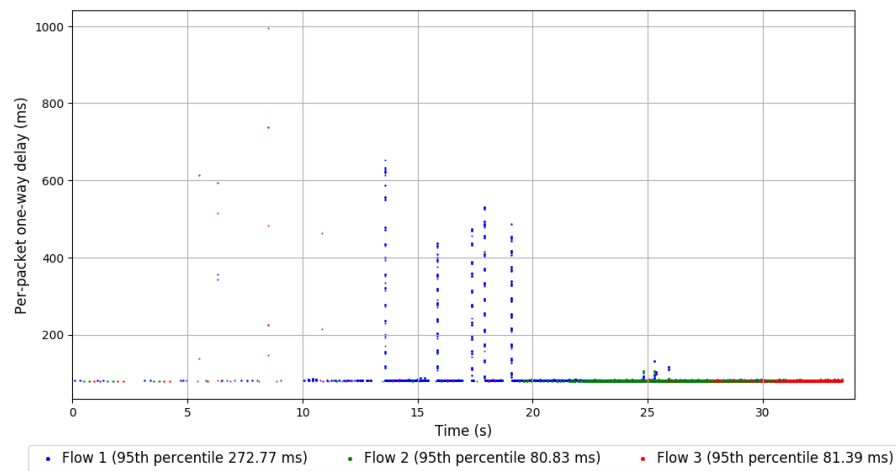
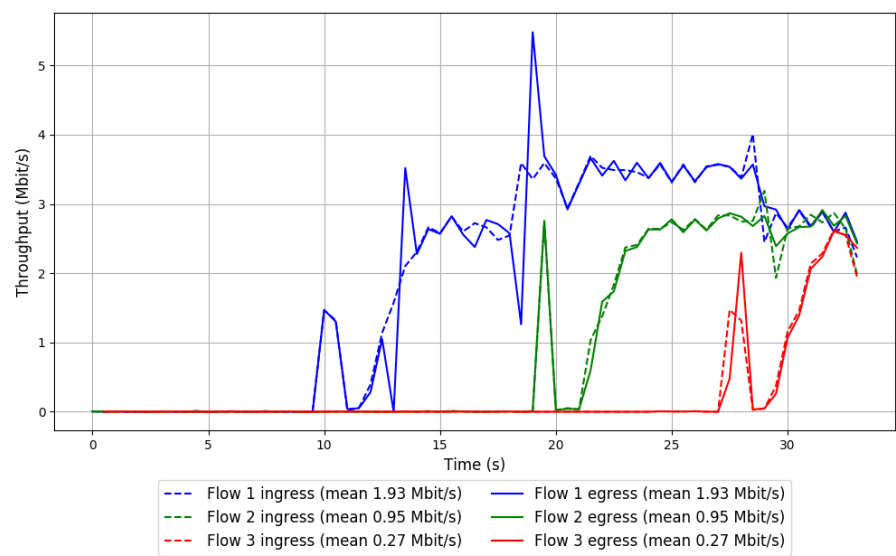


Run 2: Statistics of WebRTC media

Start at: 2018-01-17 03:29:28  
End at: 2018-01-17 03:29:58  
Local clock offset: 0.992 ms  
Remote clock offset: -6.704 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.13 Mbit/s  
95th percentile per-packet one-way delay: 118.743 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.93 Mbit/s  
95th percentile per-packet one-way delay: 272.773 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.95 Mbit/s  
95th percentile per-packet one-way delay: 80.834 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.27 Mbit/s  
95th percentile per-packet one-way delay: 81.394 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

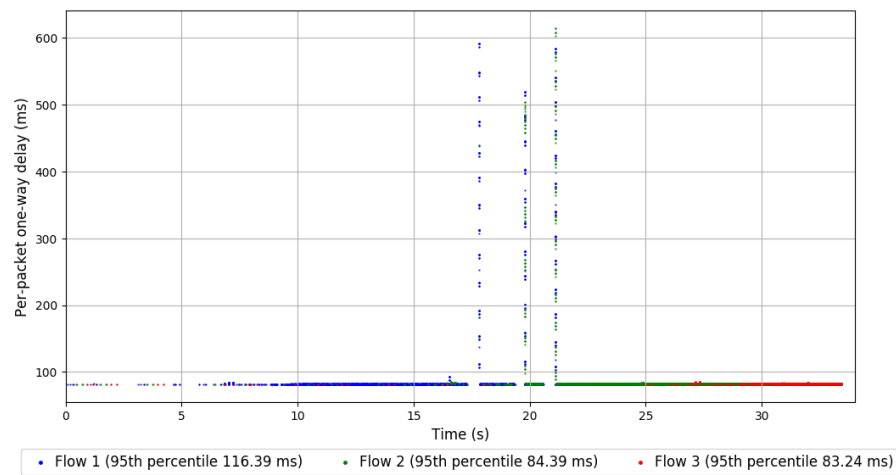
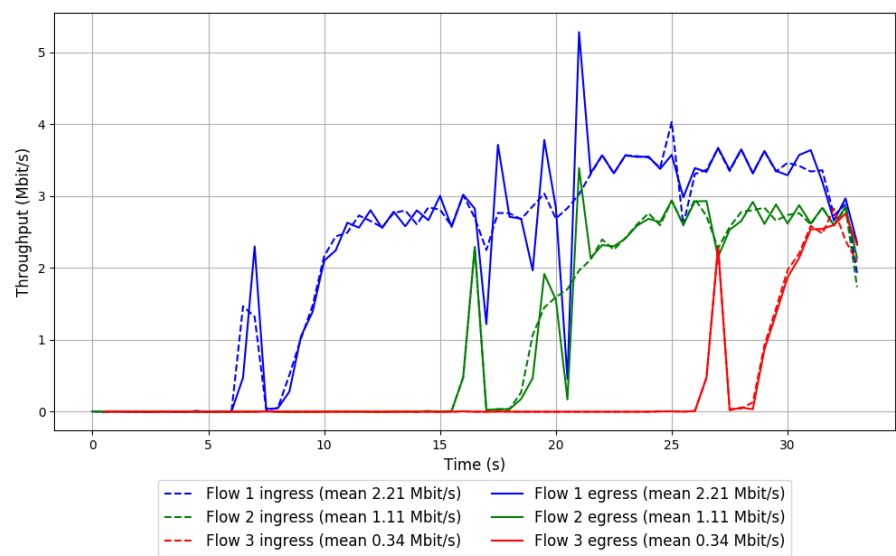


Run 3: Statistics of WebRTC media

Start at: 2018-01-17 03:52:46  
End at: 2018-01-17 03:53:16  
Local clock offset: 0.94 ms  
Remote clock offset: -6.781 ms

```
# Below is generated by plot.py at 2018-01-17 07:17:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 84.357 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 116.395 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 84.391 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 83.237 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-17 04:15:57

End at: 2018-01-17 04:16:27

Local clock offset: 0.883 ms

Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.59 Mbit/s

95th percentile per-packet one-way delay: 89.375 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 89.217 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 88.680 ms

Loss rate: 0.00%

-- Flow 3:

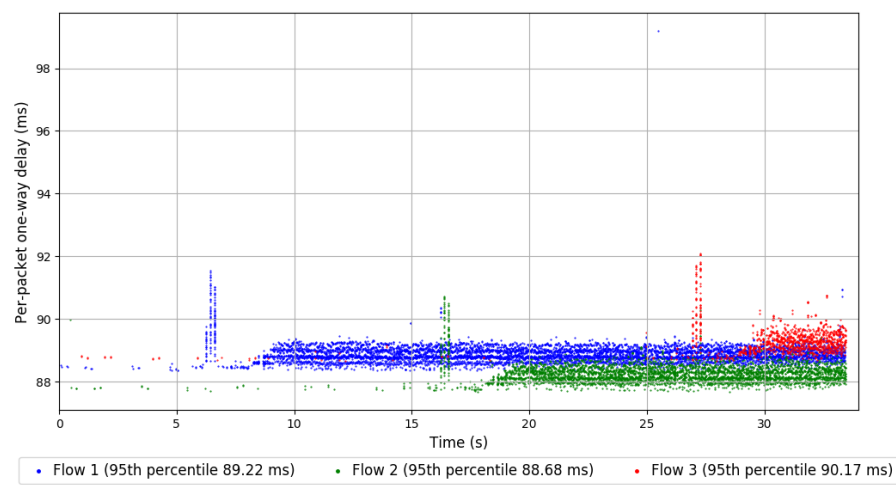
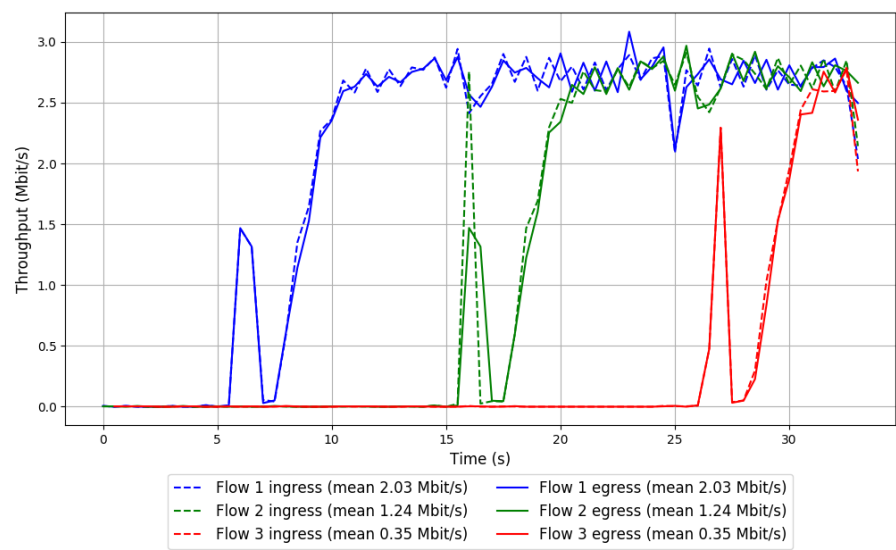
Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 90.173 ms

Loss rate: 0.00%



Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-17 04:39:20

End at: 2018-01-17 04:39:50

Local clock offset: 0.784 ms

Remote clock offset: 9.16 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.46 Mbit/s

95th percentile per-packet one-way delay: 98.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 97.303 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.23 Mbit/s

95th percentile per-packet one-way delay: 98.677 ms

Loss rate: 0.00%

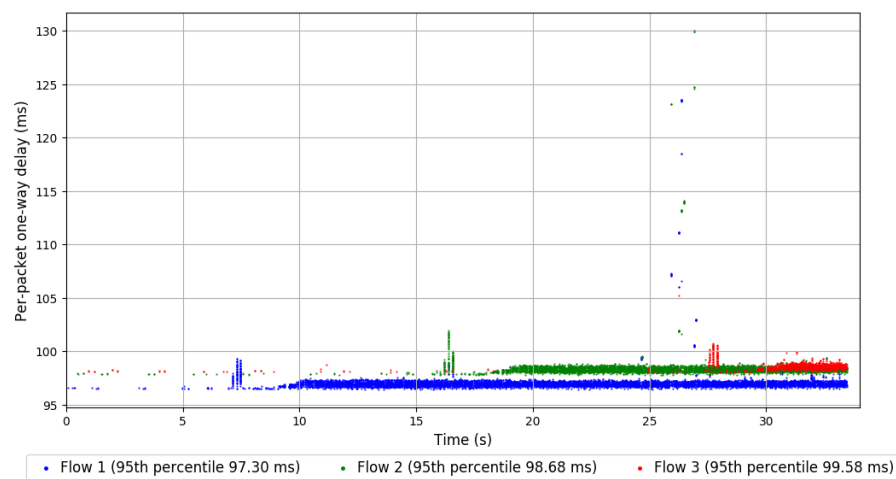
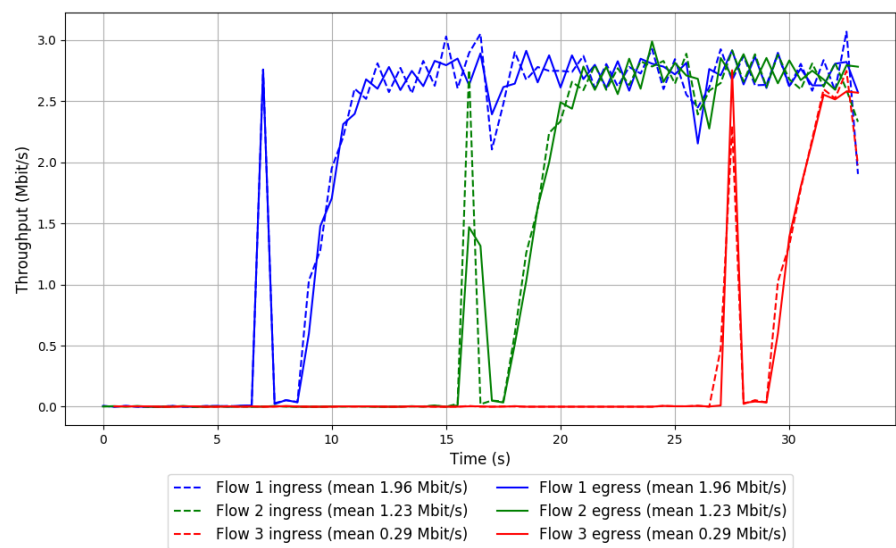
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 99.577 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-17 05:02:45

End at: 2018-01-17 05:03:15

Local clock offset: 0.71 ms

Remote clock offset: 3.49 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 97.395 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 98.961 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 94.258 ms

Loss rate: 0.00%

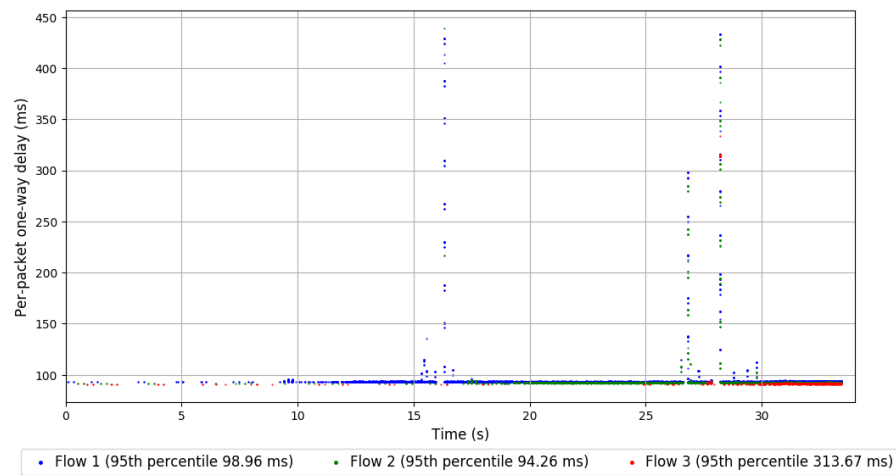
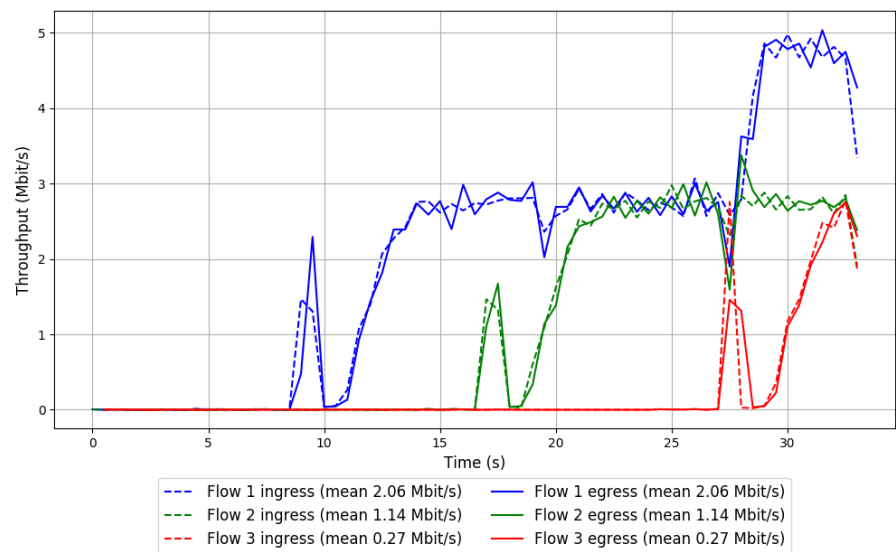
-- Flow 3:

Average throughput: 0.27 Mbit/s

95th percentile per-packet one-way delay: 313.668 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

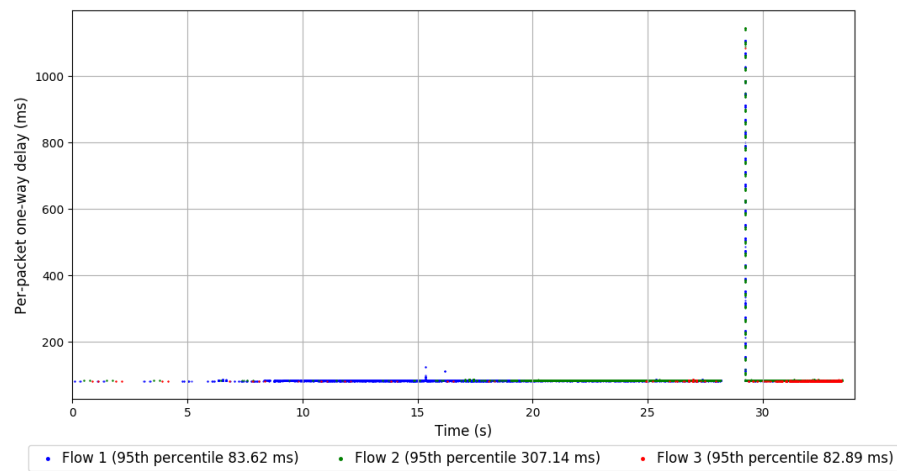
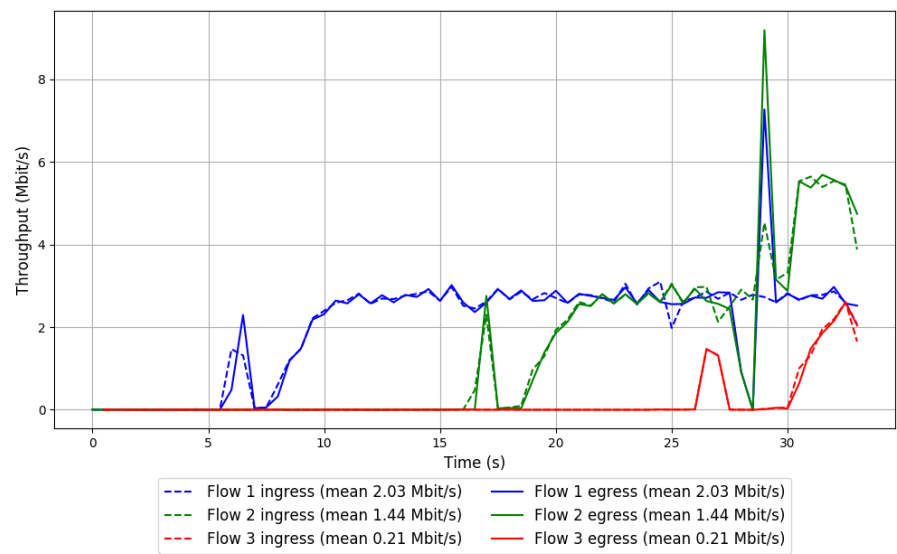


Run 7: Statistics of WebRTC media

Start at: 2018-01-17 05:26:05  
End at: 2018-01-17 05:26:35  
Local clock offset: 0.682 ms  
Remote clock offset: -5.976 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.65 Mbit/s  
95th percentile per-packet one-way delay: 85.267 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 83.618 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.44 Mbit/s  
95th percentile per-packet one-way delay: 307.140 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 82.893 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



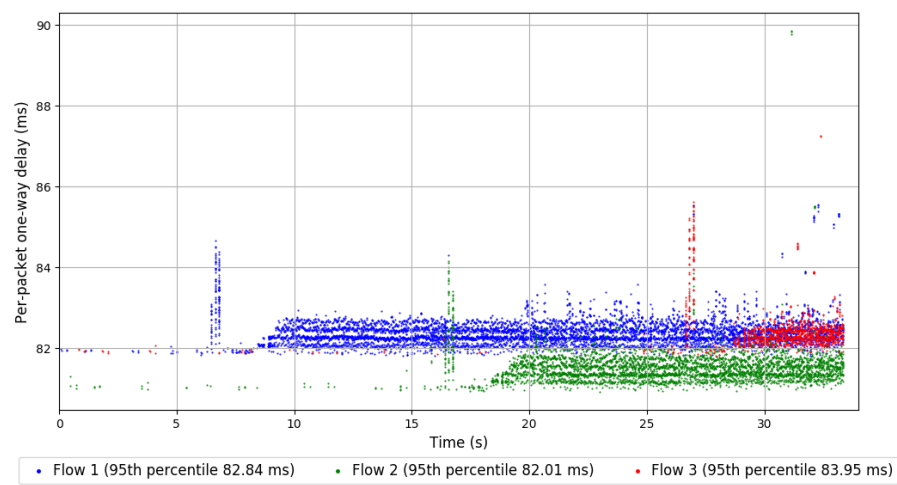
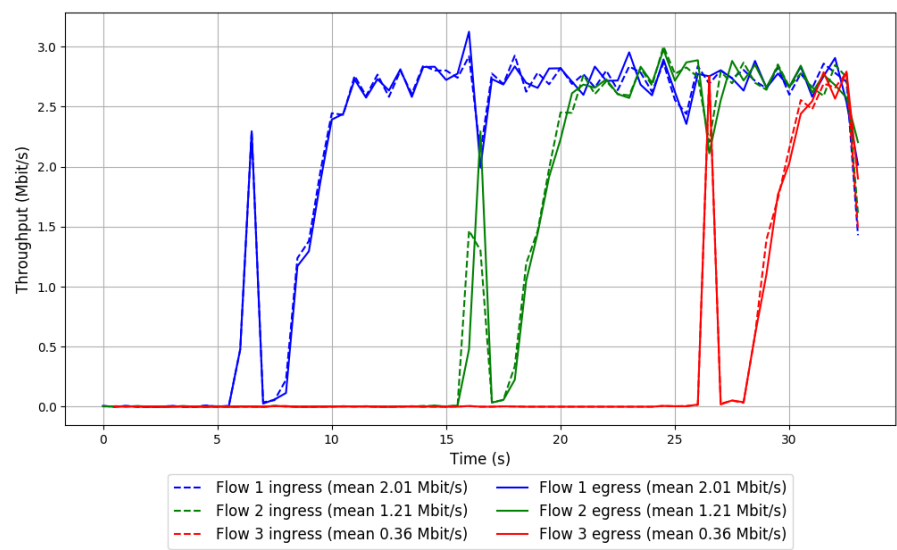
Run 8: Statistics of WebRTC media

Start at: 2018-01-17 05:49:28  
End at: 2018-01-17 05:49:58  
Local clock offset: 0.673 ms  
Remote clock offset: -6.014 ms

```
# Below is generated by plot.py at 2018-01-17 07:17:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 82.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 82.840 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 82.010 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 83.955 ms
Loss rate: 0.00%
```



Run 8: Report of WebRTC media — Data Link

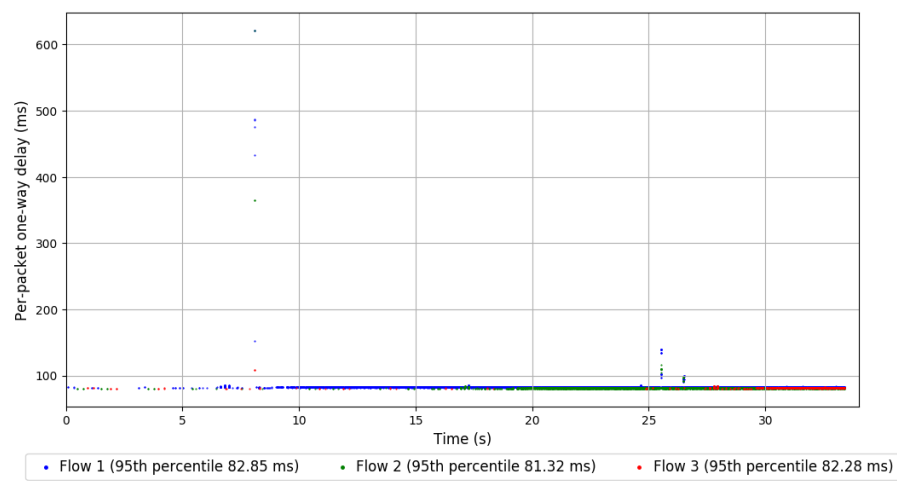
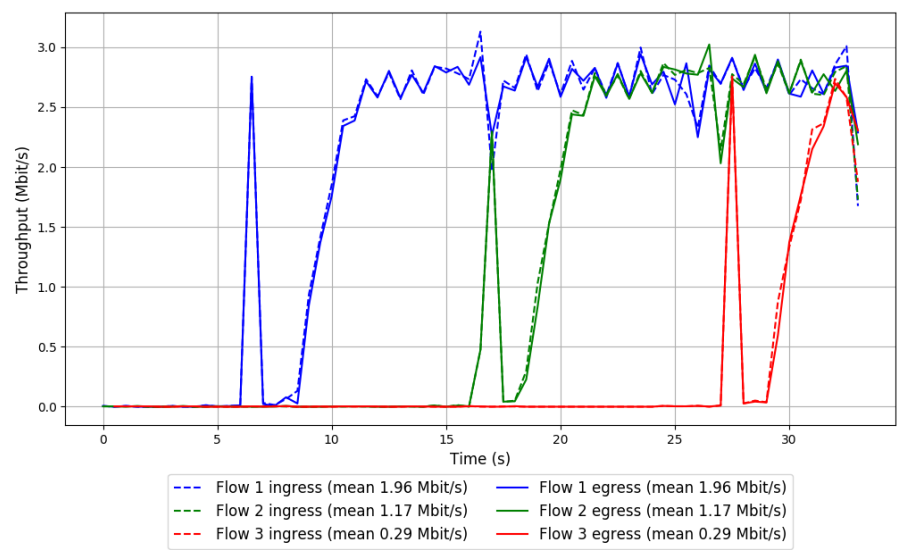


Run 9: Statistics of WebRTC media

Start at: 2018-01-17 06:12:56  
End at: 2018-01-17 06:13:26  
Local clock offset: 0.723 ms  
Remote clock offset: -5.861 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.40 Mbit/s  
95th percentile per-packet one-way delay: 82.762 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 82.854 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.17 Mbit/s  
95th percentile per-packet one-way delay: 81.322 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 82.276 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

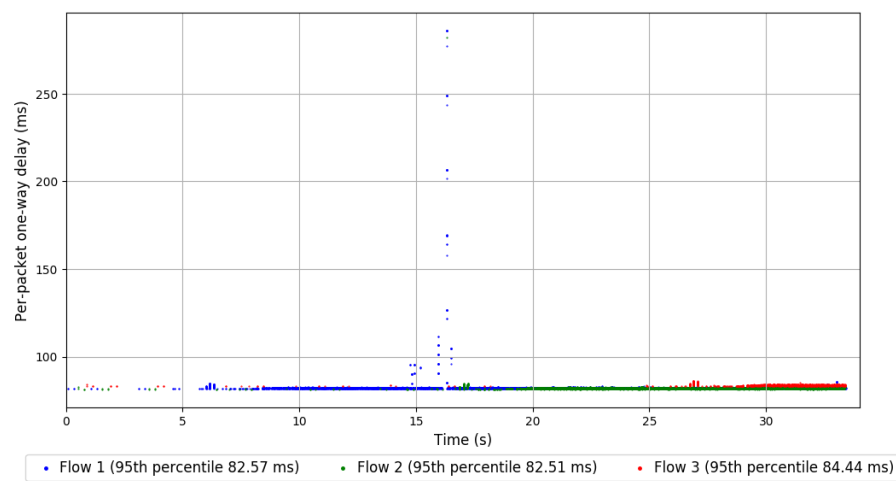
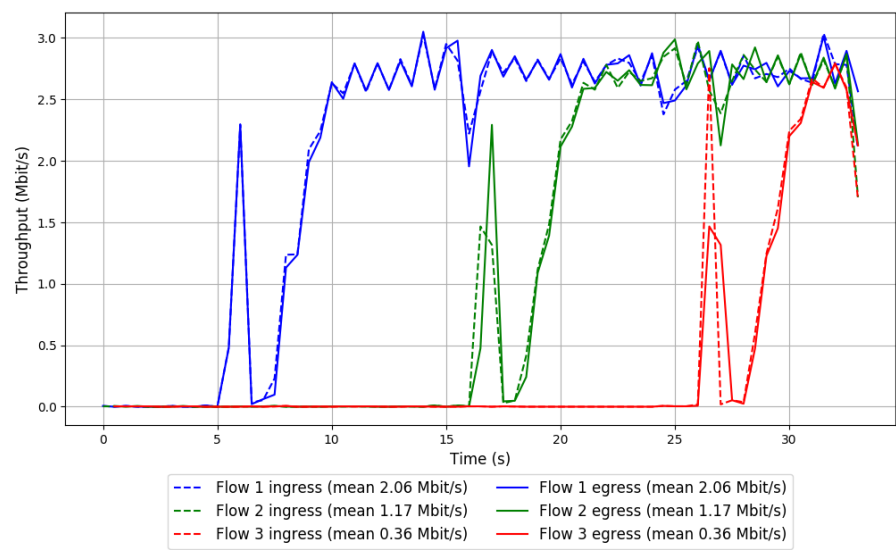


Run 10: Statistics of WebRTC media

Start at: 2018-01-17 06:36:16  
End at: 2018-01-17 06:36:46  
Local clock offset: 0.58 ms  
Remote clock offset: -4.398 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.57 Mbit/s  
95th percentile per-packet one-way delay: 83.808 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 82.569 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.17 Mbit/s  
95th percentile per-packet one-way delay: 82.512 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 84.435 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-17 02:58:34

End at: 2018-01-17 02:59:04

Local clock offset: 1.035 ms

Remote clock offset: -5.86 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 87.424 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.39 Mbit/s

95th percentile per-packet one-way delay: 86.294 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 88.127 ms

Loss rate: 0.00%

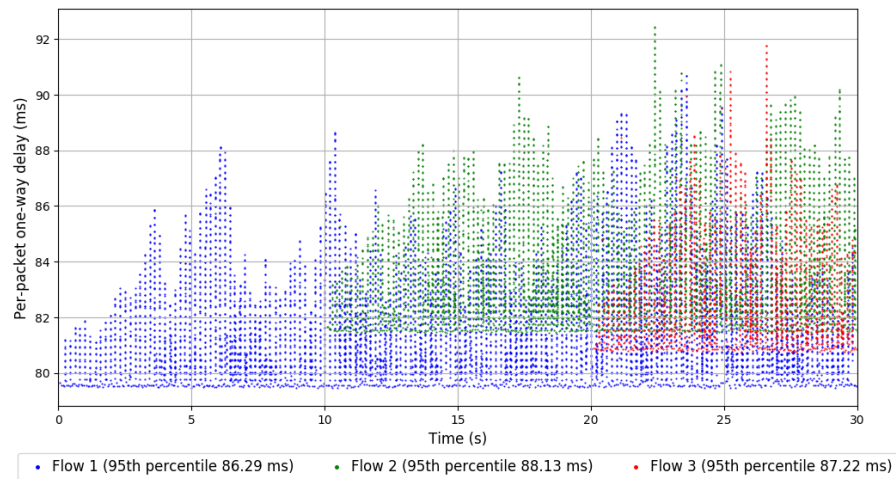
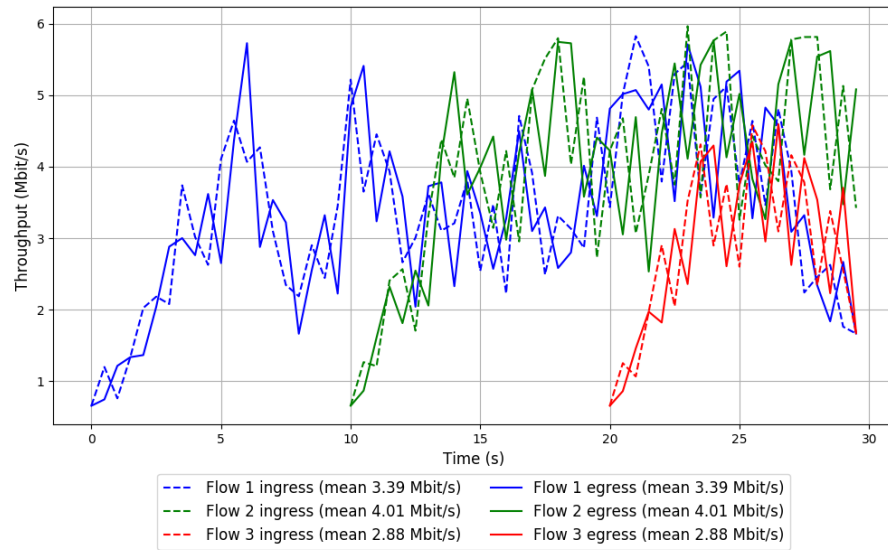
-- Flow 3:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 87.217 ms

Loss rate: 0.00%

## Run 1: Report of Sprout — Data Link



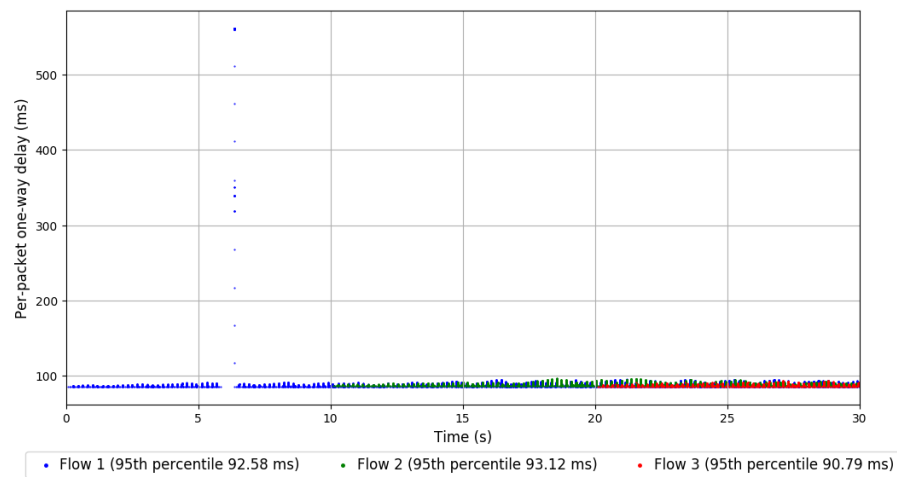
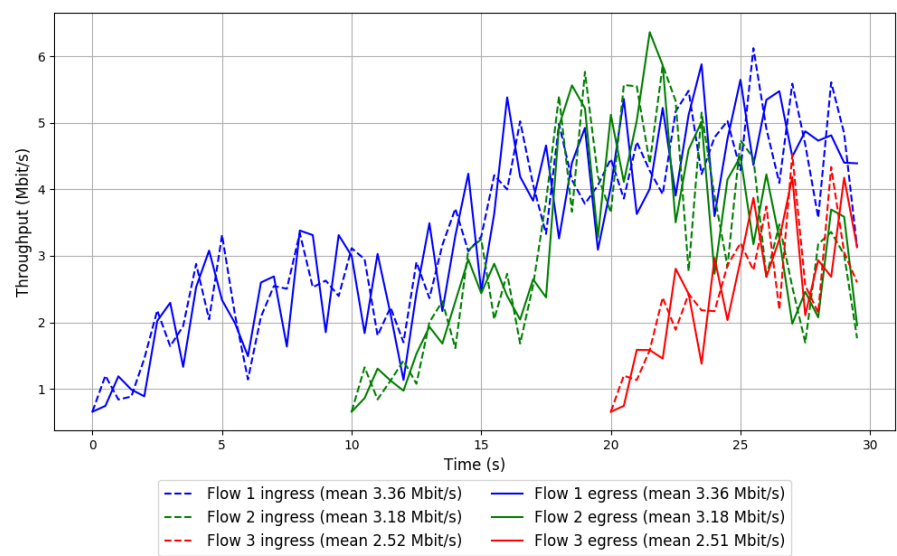
Run 2: Statistics of Sprout

Start at: 2018-01-17 03:21:47  
End at: 2018-01-17 03:22:17  
Local clock offset: 1.065 ms  
Remote clock offset: -0.8 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.31 Mbit/s  
95th percentile per-packet one-way delay: 92.644 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.36 Mbit/s  
95th percentile per-packet one-way delay: 92.578 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.18 Mbit/s  
95th percentile per-packet one-way delay: 93.123 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 2.51 Mbit/s  
95th percentile per-packet one-way delay: 90.792 ms  
Loss rate: 0.00%



Run 2: Report of Sprout — Data Link

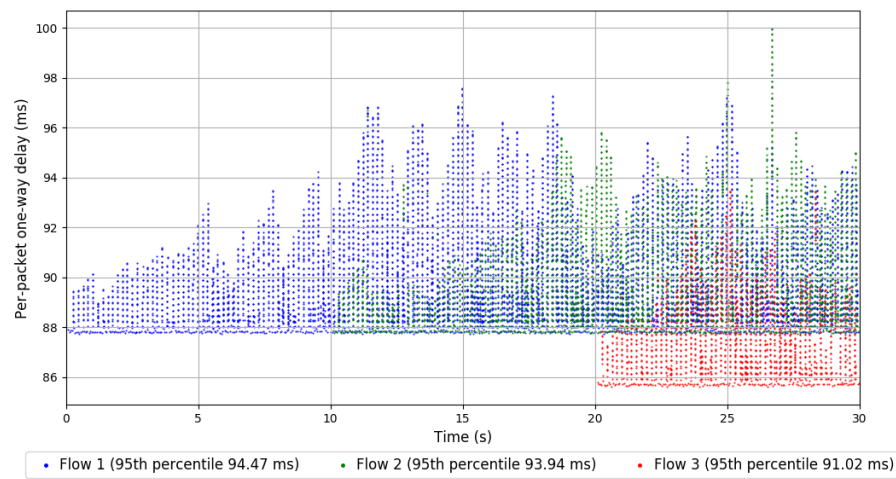
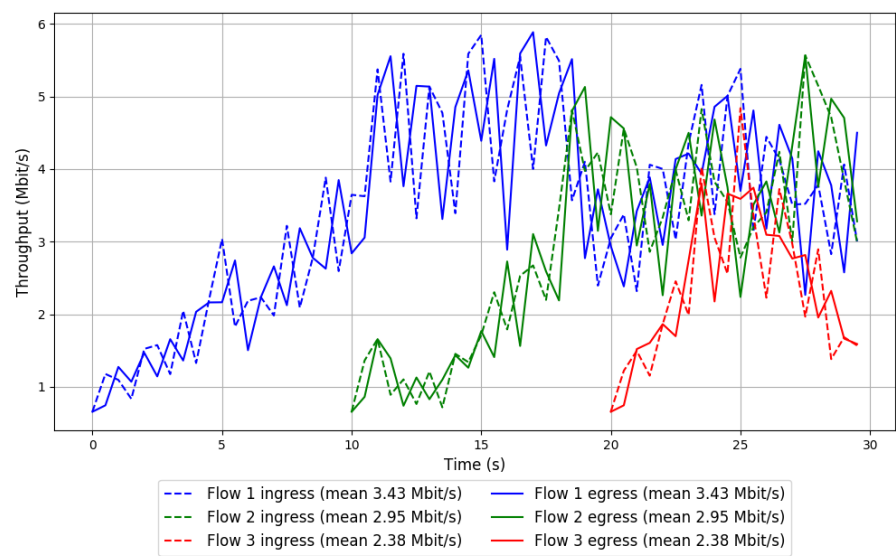


### Run 3: Statistics of Sprout

Start at: 2018-01-17 03:45:03  
End at: 2018-01-17 03:45:33  
Local clock offset: 0.953 ms  
Remote clock offset: -1.013 ms

```
# Below is generated by plot.py at 2018-01-17 07:17:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.17 Mbit/s
95th percentile per-packet one-way delay: 94.149 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 94.475 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 93.940 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 91.017 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

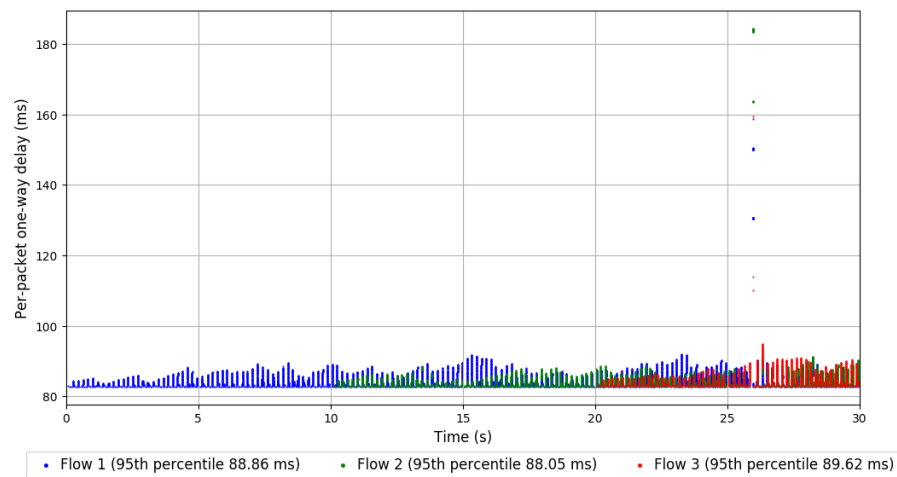
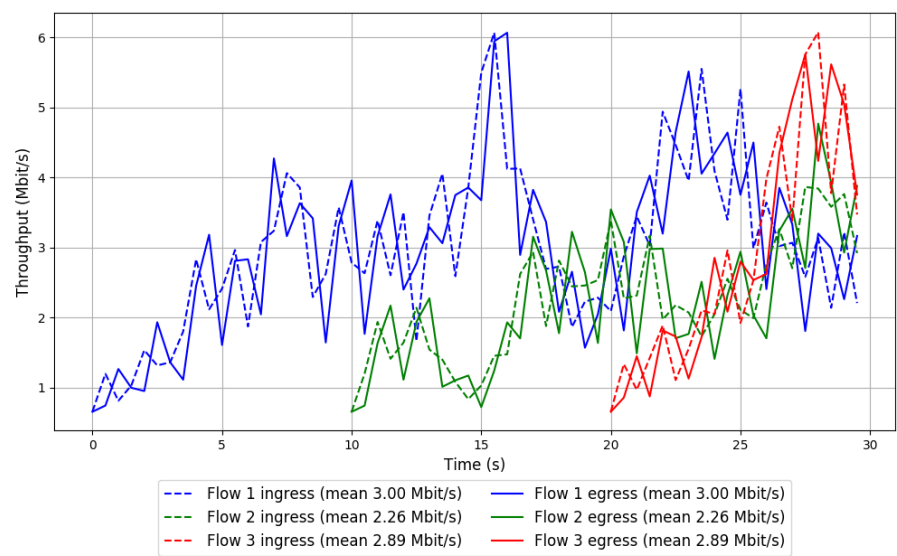


#### Run 4: Statistics of Sprout

Start at: 2018-01-17 04:08:15  
End at: 2018-01-17 04:08:45  
Local clock offset: 0.833 ms  
Remote clock offset: -5.52 ms

```
# Below is generated by plot.py at 2018-01-17 07:17:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.45 Mbit/s
95th percentile per-packet one-way delay: 88.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 88.859 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 88.048 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 89.624 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-17 04:31:39

End at: 2018-01-17 04:32:09

Local clock offset: 0.822 ms

Remote clock offset: 9.307 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.84 Mbit/s

95th percentile per-packet one-way delay: 104.448 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.10 Mbit/s

95th percentile per-packet one-way delay: 102.369 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 3.82 Mbit/s

95th percentile per-packet one-way delay: 105.094 ms

Loss rate: 0.00%

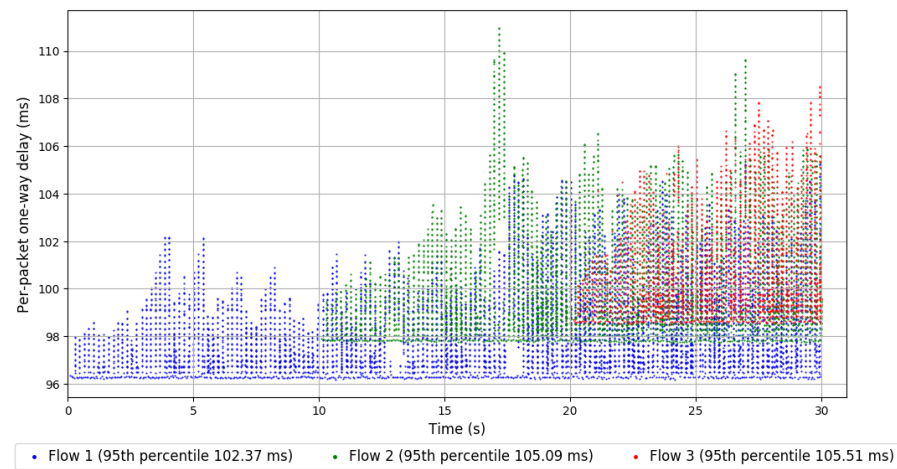
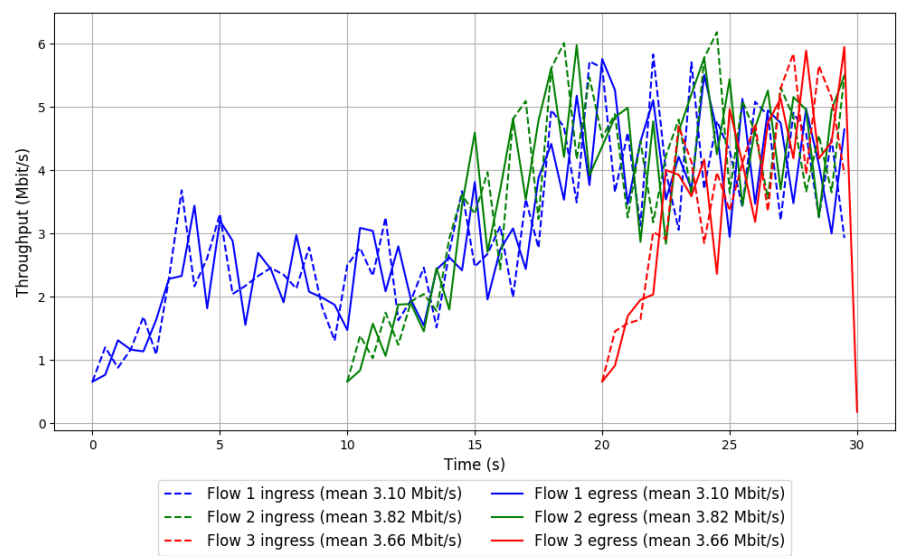
-- Flow 3:

Average throughput: 3.66 Mbit/s

95th percentile per-packet one-way delay: 105.511 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-17 04:55:03

End at: 2018-01-17 04:55:33

Local clock offset: 0.729 ms

Remote clock offset: 8.321 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 5.81 Mbit/s

95th percentile per-packet one-way delay: 102.278 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 102.338 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.73 Mbit/s

95th percentile per-packet one-way delay: 102.188 ms

Loss rate: 0.00%

-- Flow 3:

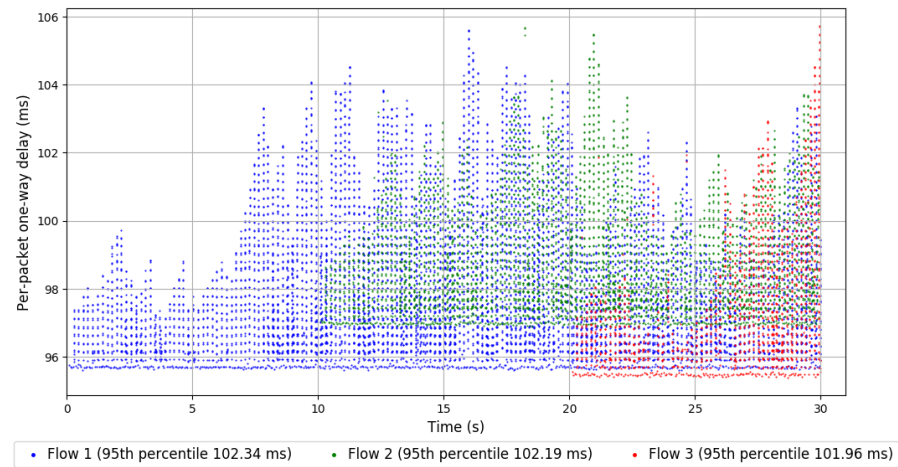
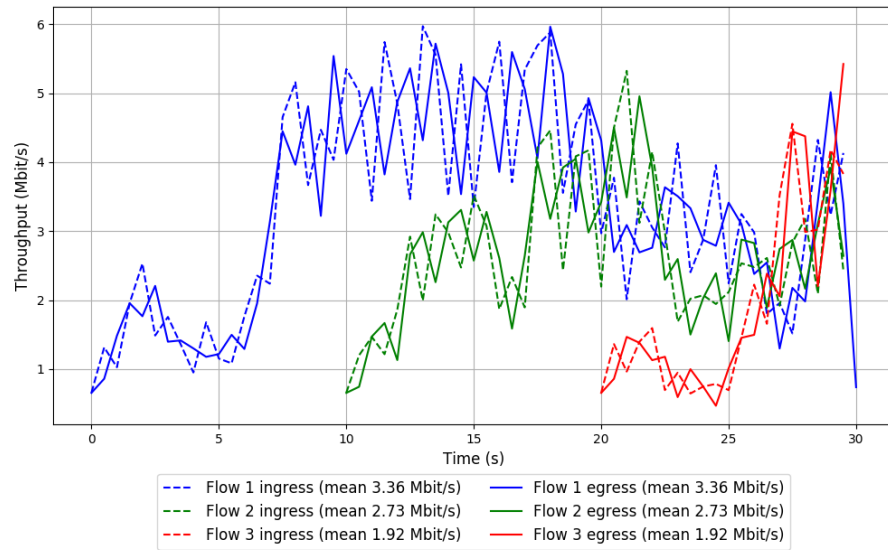
Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 101.958 ms

Loss rate: 0.00%



## Run 6: Report of Sprout — Data Link

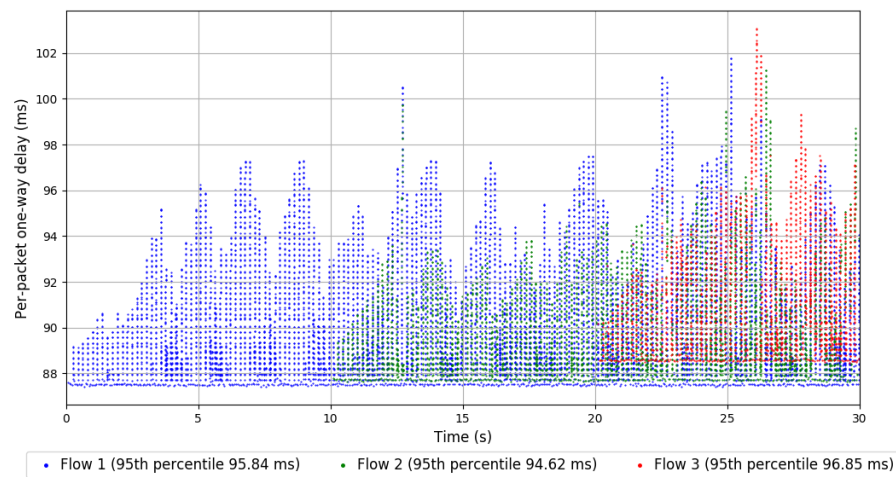
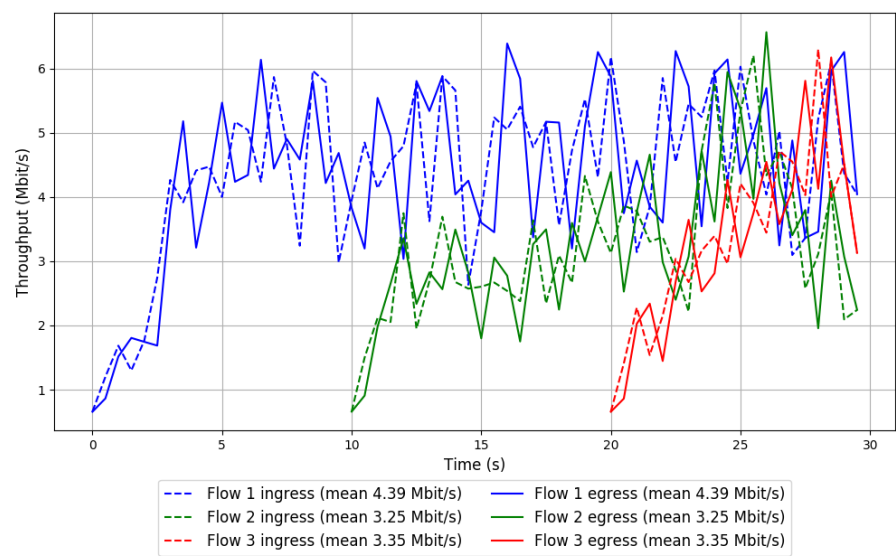


Run 7: Statistics of Sprout

Start at: 2018-01-17 05:18:21  
End at: 2018-01-17 05:18:51  
Local clock offset: 0.695 ms  
Remote clock offset: 0.712 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.65 Mbit/s  
95th percentile per-packet one-way delay: 95.792 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 4.39 Mbit/s  
95th percentile per-packet one-way delay: 95.838 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 3.25 Mbit/s  
95th percentile per-packet one-way delay: 94.623 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.35 Mbit/s  
95th percentile per-packet one-way delay: 96.849 ms  
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

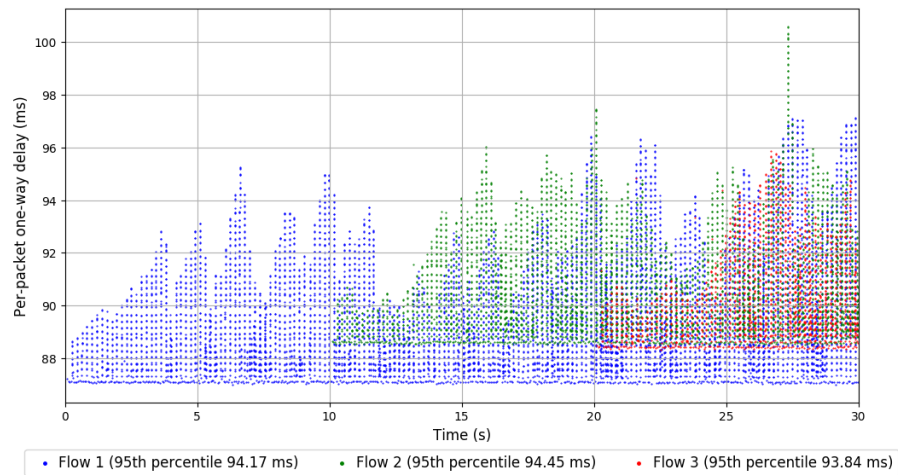
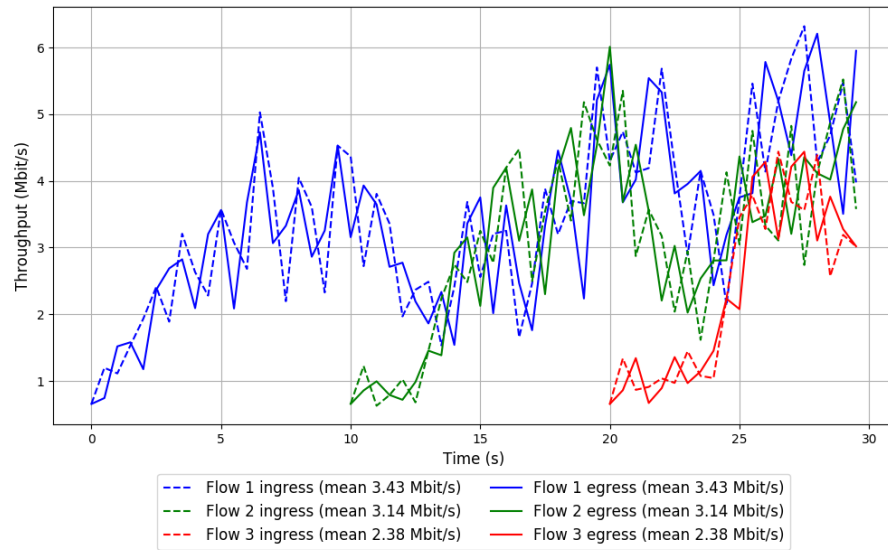


Run 8: Statistics of Sprout

Start at: 2018-01-17 05:41:44  
End at: 2018-01-17 05:42:14  
Local clock offset: 0.605 ms  
Remote clock offset: -0.011 ms

```
# Below is generated by plot.py at 2018-01-17 07:17:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 94.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 94.172 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 94.451 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 93.836 ms
Loss rate: 0.00%
```

## Run 8: Report of Sprout — Data Link

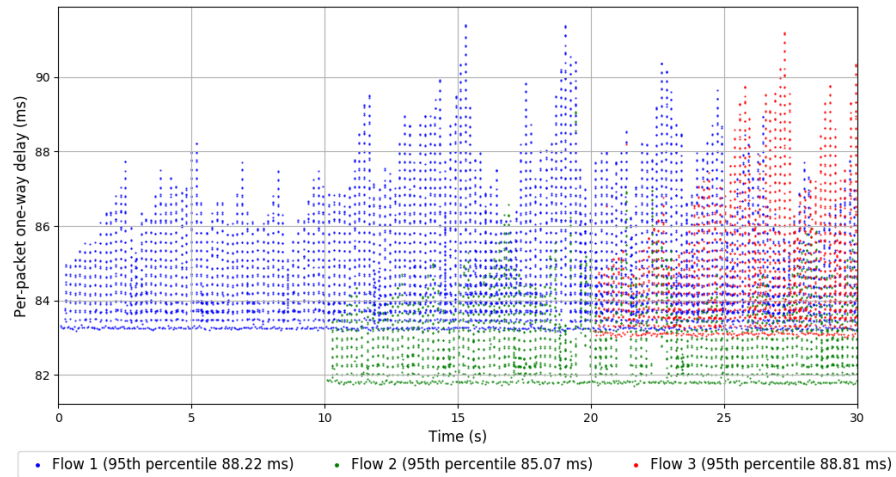
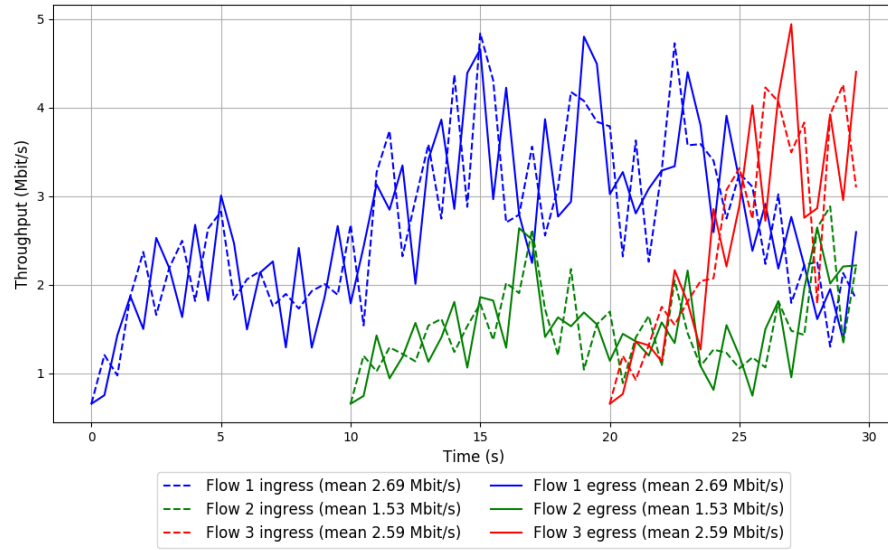


Run 9: Statistics of Sprout

Start at: 2018-01-17 06:05:04  
End at: 2018-01-17 06:05:34  
Local clock offset: 0.702 ms  
Remote clock offset: -4.923 ms

# Below is generated by plot.py at 2018-01-17 07:17:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.55 Mbit/s  
95th percentile per-packet one-way delay: 88.137 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.69 Mbit/s  
95th percentile per-packet one-way delay: 88.224 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.53 Mbit/s  
95th percentile per-packet one-way delay: 85.067 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 2.59 Mbit/s  
95th percentile per-packet one-way delay: 88.814 ms  
Loss rate: 0.00%

## Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-17 06:28:34

End at: 2018-01-17 06:29:04

Local clock offset: 0.709 ms

Remote clock offset: 1.073 ms

# Below is generated by plot.py at 2018-01-17 07:17:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 93.979 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 3.18 Mbit/s

95th percentile per-packet one-way delay: 94.288 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 93.709 ms

Loss rate: 0.00%

-- Flow 3:

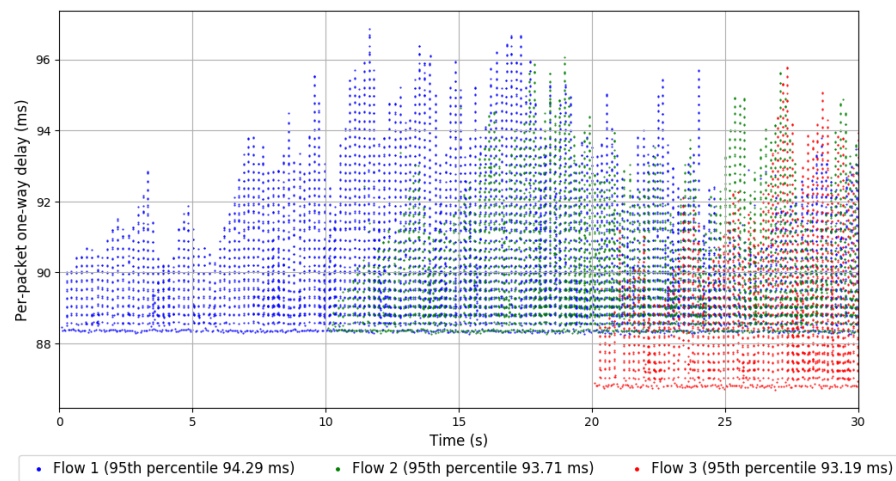
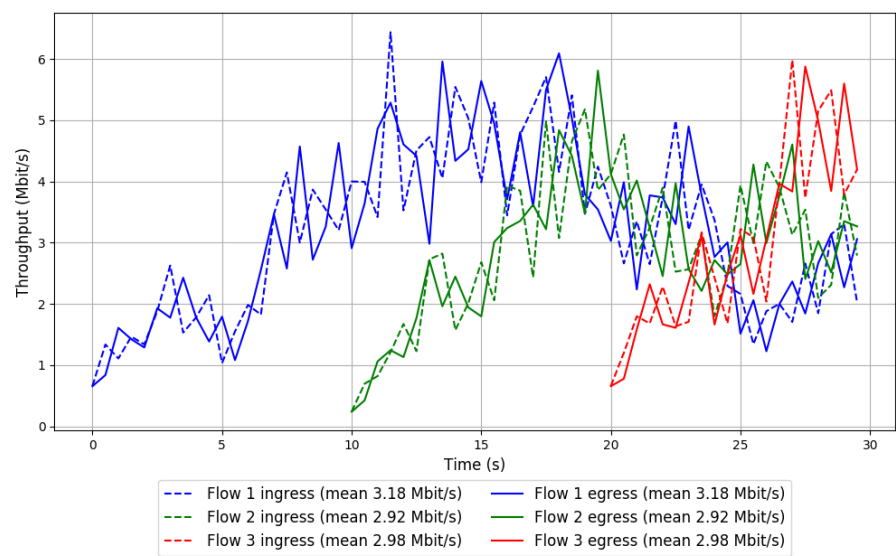
Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 93.186 ms

Loss rate: 0.00%



Run 10: Report of Sprout — Data Link

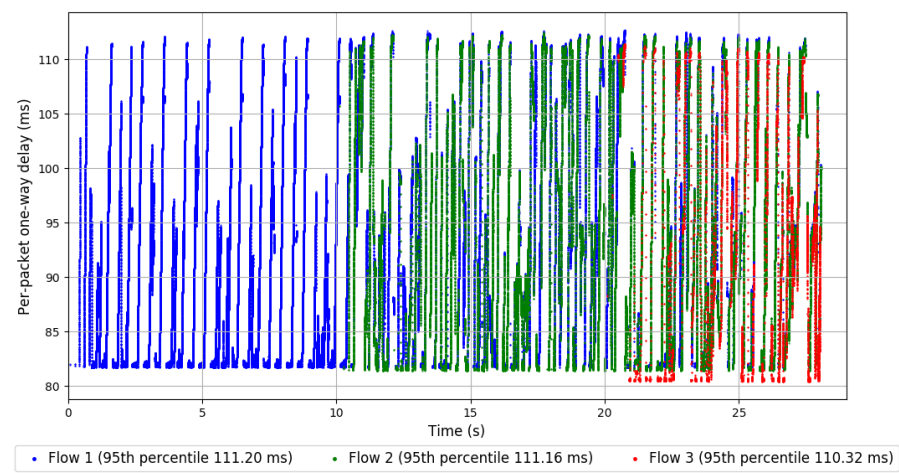
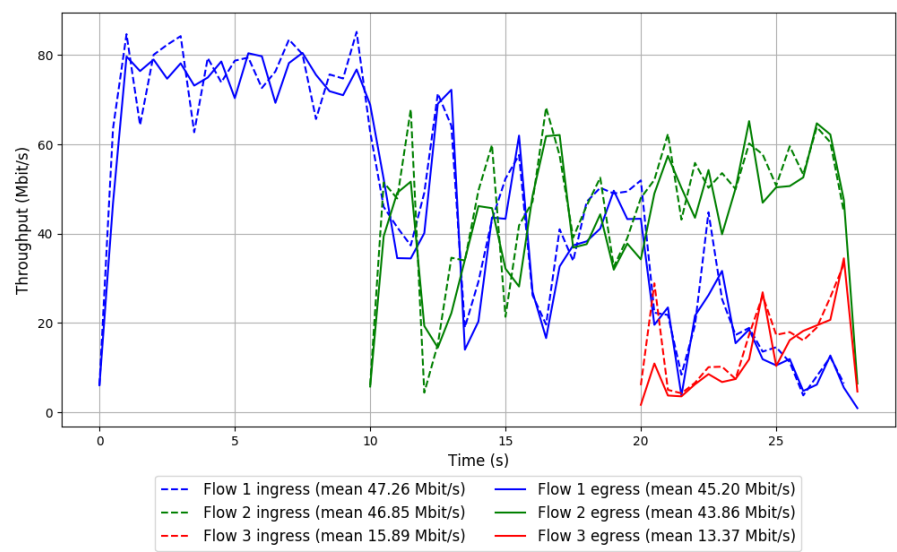


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-17 03:07:29
End at: 2018-01-17 03:07:59
Local clock offset: 1.087 ms
Remote clock offset: -6.151 ms

# Below is generated by plot.py at 2018-01-17 07:19:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.12 Mbit/s
95th percentile per-packet one-way delay: 111.160 ms
Loss rate: 5.71%
-- Flow 1:
Average throughput: 45.20 Mbit/s
95th percentile per-packet one-way delay: 111.205 ms
Loss rate: 4.30%
-- Flow 2:
Average throughput: 43.86 Mbit/s
95th percentile per-packet one-way delay: 111.162 ms
Loss rate: 6.41%
-- Flow 3:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 110.317 ms
Loss rate: 15.76%
```

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

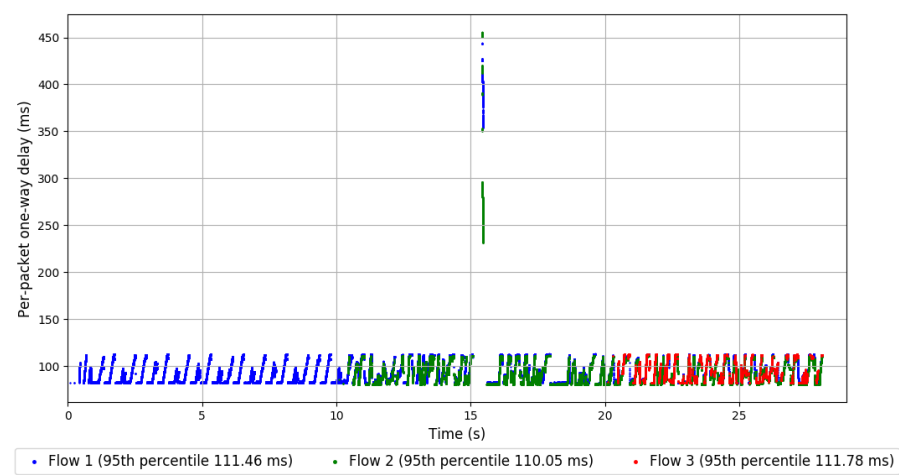
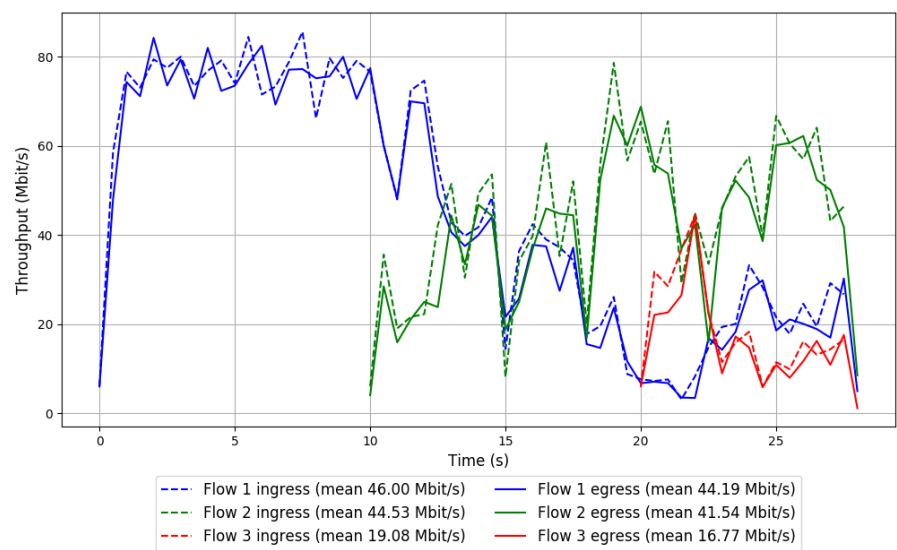


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-17 03:30:42  
End at: 2018-01-17 03:31:12  
Local clock offset: 0.993 ms  
Remote clock offset: -6.655 ms

# Below is generated by plot.py at 2018-01-17 07:19:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.64 Mbit/s  
95th percentile per-packet one-way delay: 111.168 ms  
Loss rate: 5.36%  
-- Flow 1:  
Average throughput: 44.19 Mbit/s  
95th percentile per-packet one-way delay: 111.458 ms  
Loss rate: 3.83%  
-- Flow 2:  
Average throughput: 41.54 Mbit/s  
95th percentile per-packet one-way delay: 110.046 ms  
Loss rate: 6.60%  
-- Flow 3:  
Average throughput: 16.77 Mbit/s  
95th percentile per-packet one-way delay: 111.778 ms  
Loss rate: 11.82%

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

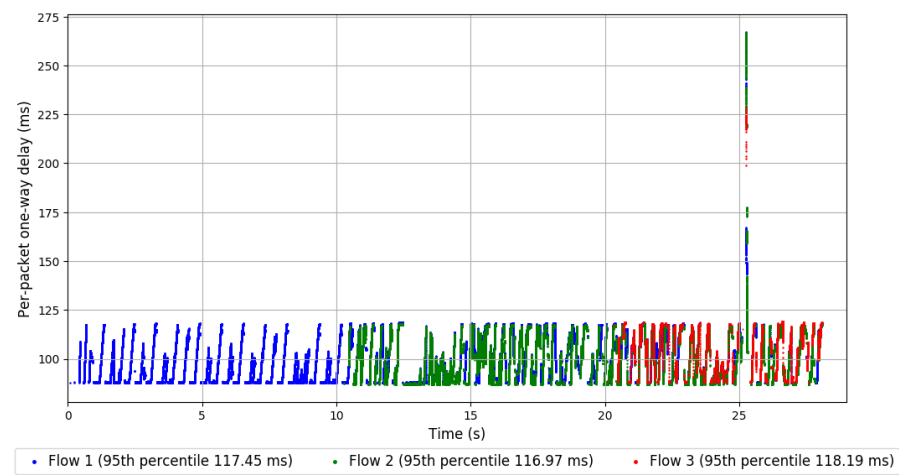
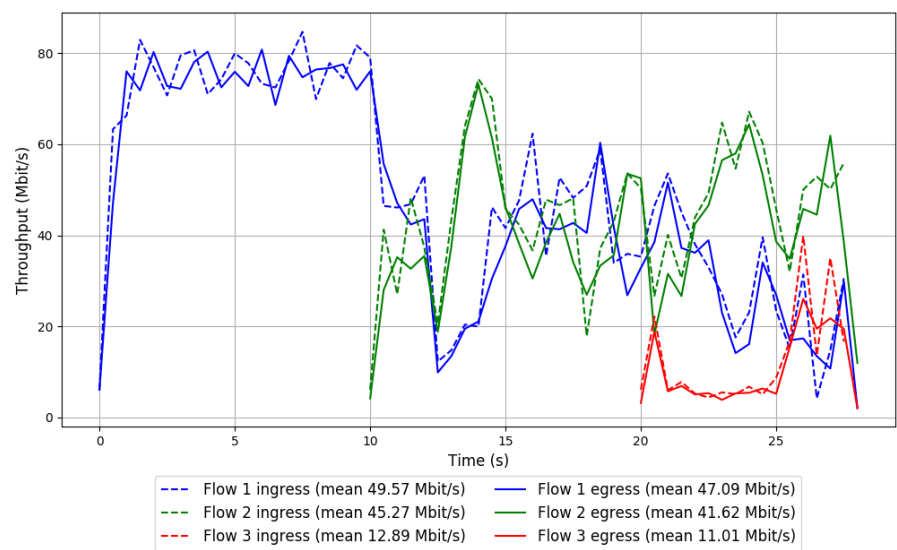


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-17 03:53:59  
End at: 2018-01-17 03:54:30  
Local clock offset: 0.845 ms  
Remote clock offset: -1.009 ms

# Below is generated by plot.py at 2018-01-17 07:19:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.93 Mbit/s  
95th percentile per-packet one-way delay: 117.352 ms  
Loss rate: 6.41%  
-- Flow 1:  
Average throughput: 47.09 Mbit/s  
95th percentile per-packet one-way delay: 117.452 ms  
Loss rate: 4.89%  
-- Flow 2:  
Average throughput: 41.62 Mbit/s  
95th percentile per-packet one-way delay: 116.973 ms  
Loss rate: 8.01%  
-- Flow 3:  
Average throughput: 11.01 Mbit/s  
95th percentile per-packet one-way delay: 118.191 ms  
Loss rate: 14.33%

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



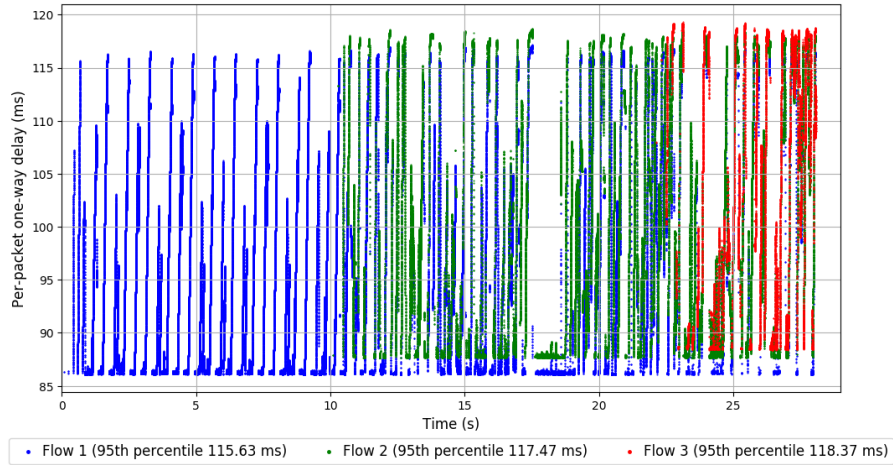
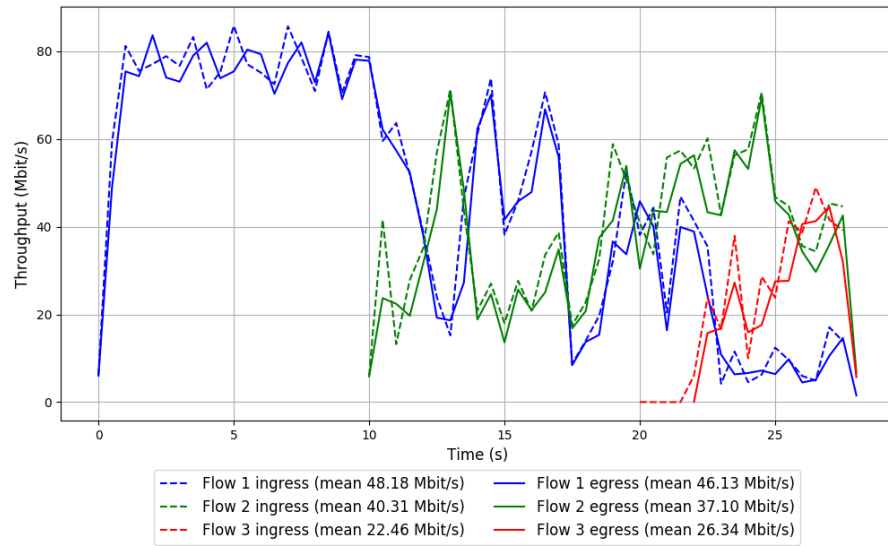
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-17 04:17:11  
End at: 2018-01-17 04:17:41  
Local clock offset: 0.883 ms  
Remote clock offset: -0.723 ms

# Below is generated by plot.py at 2018-01-17 07:19:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.49 Mbit/s  
95th percentile per-packet one-way delay: 116.894 ms  
Loss rate: 5.99%  
-- Flow 1:  
Average throughput: 46.13 Mbit/s  
95th percentile per-packet one-way delay: 115.628 ms  
Loss rate: 4.19%  
-- Flow 2:  
Average throughput: 37.10 Mbit/s  
95th percentile per-packet one-way delay: 117.468 ms  
Loss rate: 7.80%  
-- Flow 3:  
Average throughput: 26.34 Mbit/s  
95th percentile per-packet one-way delay: 118.369 ms  
Loss rate: 12.26%



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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-17 04:40:34

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

Local clock offset: 0.721 ms

Remote clock offset: 8.189 ms

# Below is generated by plot.py at 2018-01-17 07:19:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.32 Mbit/s

95th percentile per-packet one-way delay: 126.347 ms

Loss rate: 4.73%

-- Flow 1:

Average throughput: 47.99 Mbit/s

95th percentile per-packet one-way delay: 126.433 ms

Loss rate: 3.28%

-- Flow 2:

Average throughput: 28.85 Mbit/s

95th percentile per-packet one-way delay: 125.713 ms

Loss rate: 7.12%

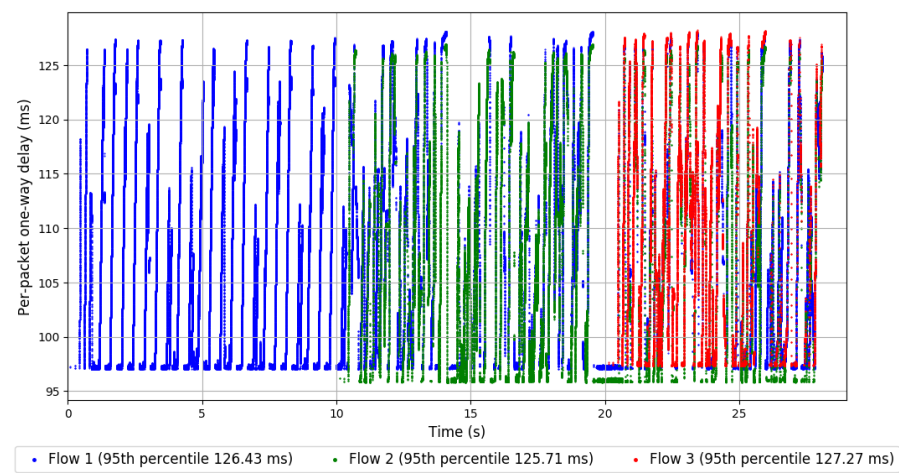
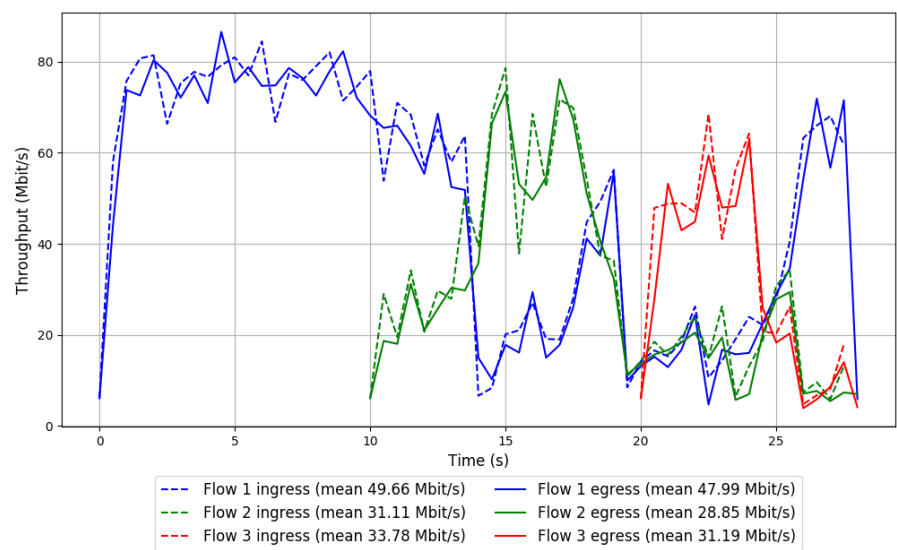
-- Flow 3:

Average throughput: 31.19 Mbit/s

95th percentile per-packet one-way delay: 127.267 ms

Loss rate: 7.34%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-17 05:03:59

End at: 2018-01-17 05:04:29

Local clock offset: 0.648 ms

Remote clock offset: 3.117 ms

# Below is generated by plot.py at 2018-01-17 07:19:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.22 Mbit/s

95th percentile per-packet one-way delay: 119.738 ms

Loss rate: 3.53%

-- Flow 1:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 119.456 ms

Loss rate: 2.66%

-- Flow 2:

Average throughput: 19.43 Mbit/s

95th percentile per-packet one-way delay: 120.085 ms

Loss rate: 6.20%

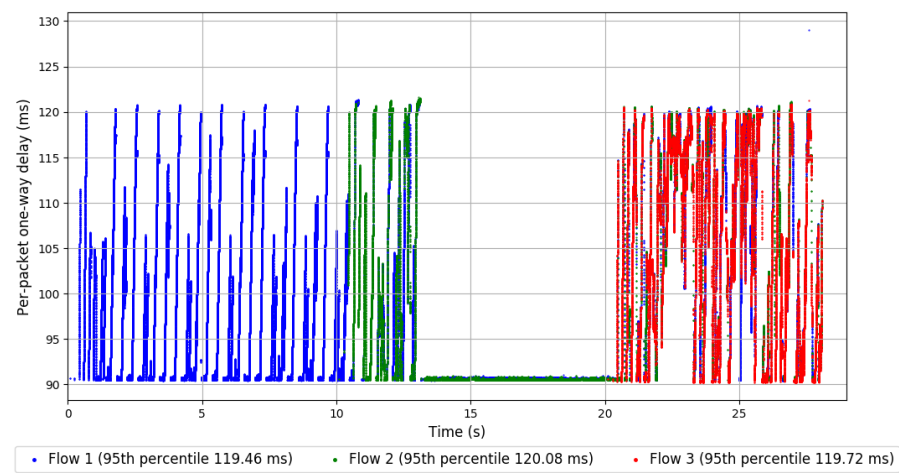
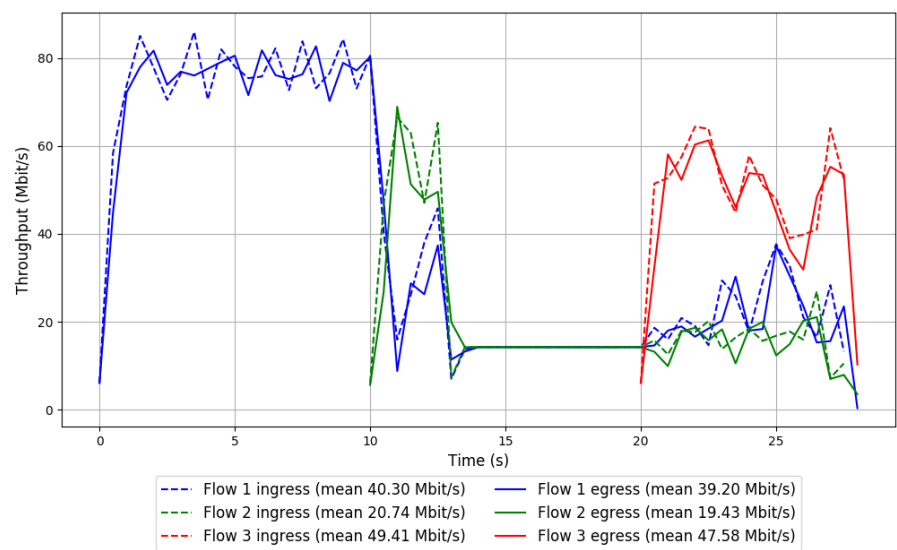
-- Flow 3:

Average throughput: 47.58 Mbit/s

95th percentile per-packet one-way delay: 119.717 ms

Loss rate: 3.47%

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

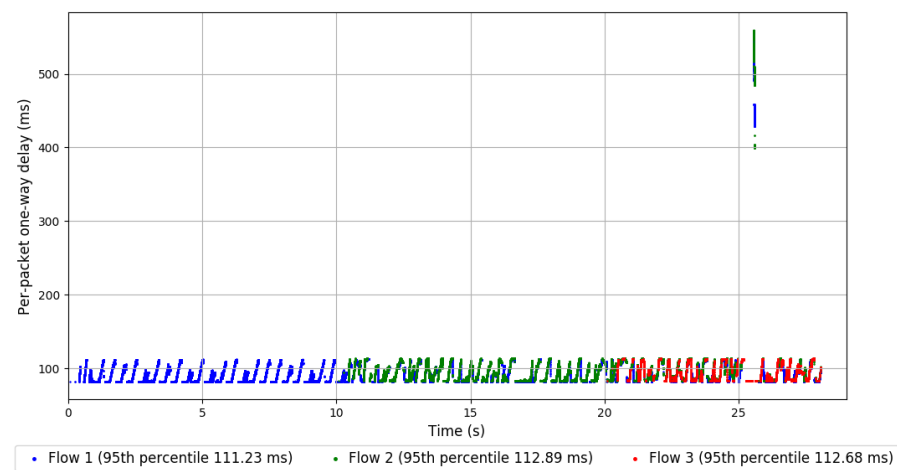
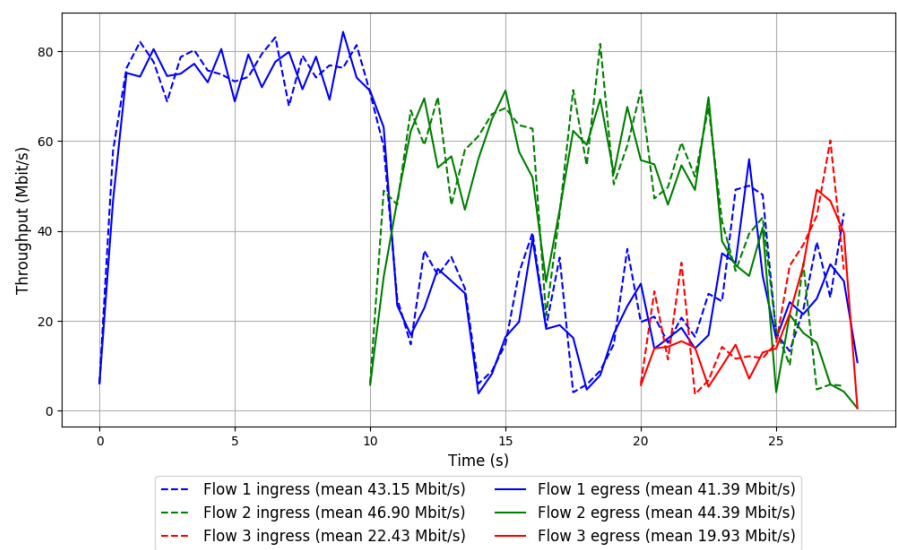


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-17 05:27:19  
End at: 2018-01-17 05:27:49  
Local clock offset: 0.684 ms  
Remote clock offset: -6.376 ms

# Below is generated by plot.py at 2018-01-17 07:19:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.56 Mbit/s  
95th percentile per-packet one-way delay: 112.145 ms  
Loss rate: 5.04%  
-- Flow 1:  
Average throughput: 41.39 Mbit/s  
95th percentile per-packet one-way delay: 111.229 ms  
Loss rate: 4.03%  
-- Flow 2:  
Average throughput: 44.39 Mbit/s  
95th percentile per-packet one-way delay: 112.892 ms  
Loss rate: 5.24%  
-- Flow 3:  
Average throughput: 19.93 Mbit/s  
95th percentile per-packet one-way delay: 112.678 ms  
Loss rate: 10.96%

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



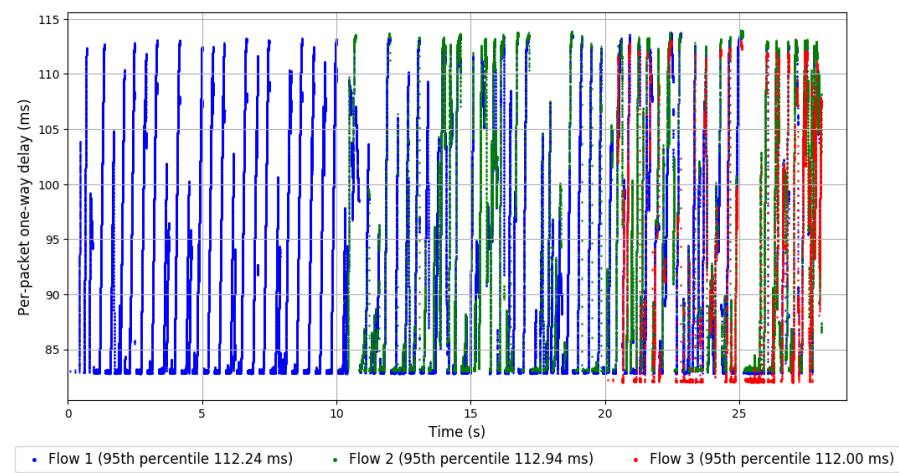
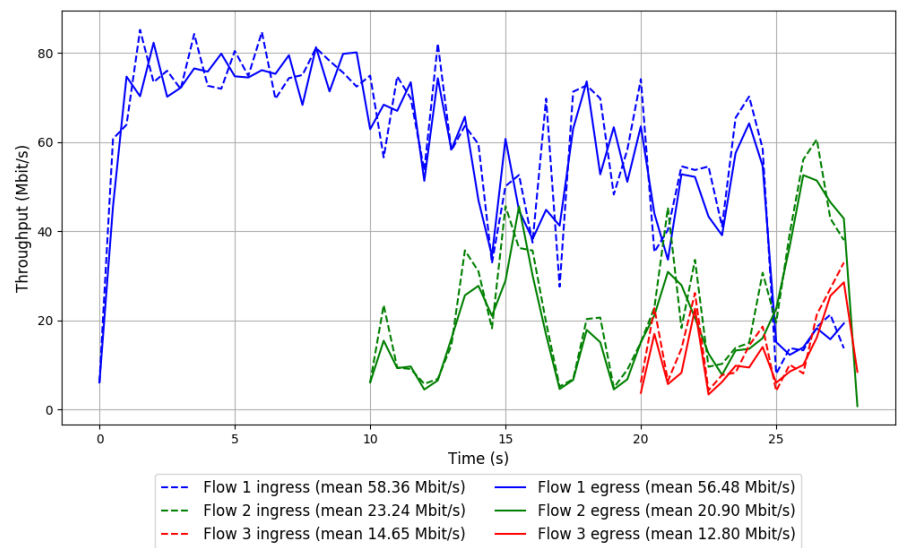
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-17 05:50:41  
End at: 2018-01-17 05:51:11  
Local clock offset: 0.656 ms  
Remote clock offset: -5.564 ms

# Below is generated by plot.py at 2018-01-17 07:19:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.37 Mbit/s  
95th percentile per-packet one-way delay: 112.499 ms  
Loss rate: 4.98%  
-- Flow 1:  
Average throughput: 56.48 Mbit/s  
95th percentile per-packet one-way delay: 112.243 ms  
Loss rate: 3.15%  
-- Flow 2:  
Average throughput: 20.90 Mbit/s  
95th percentile per-packet one-way delay: 112.944 ms  
Loss rate: 10.07%  
-- Flow 3:  
Average throughput: 12.80 Mbit/s  
95th percentile per-packet one-way delay: 112.003 ms  
Loss rate: 12.39%



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

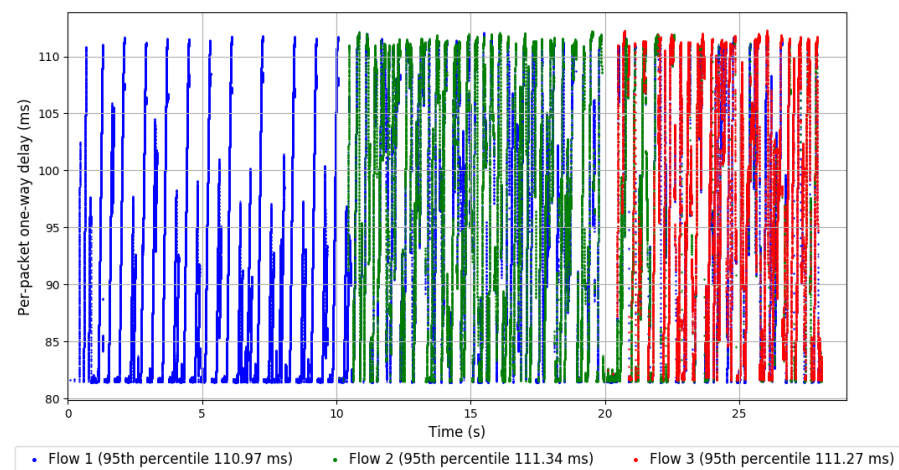
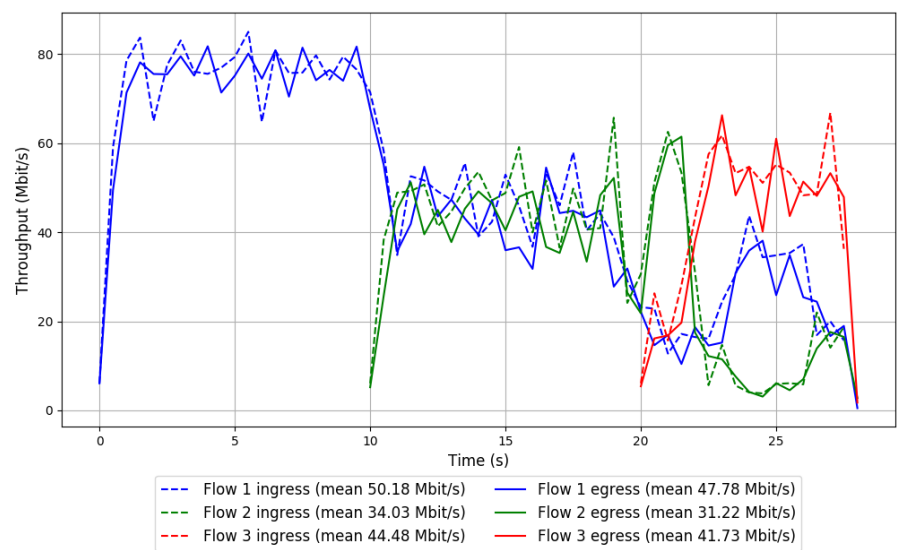


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-17 06:14:10  
End at: 2018-01-17 06:14:40  
Local clock offset: 0.725 ms  
Remote clock offset: -4.927 ms

# Below is generated by plot.py at 2018-01-17 07:21:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.59 Mbit/s  
95th percentile per-packet one-way delay: 111.131 ms  
Loss rate: 5.89%  
-- Flow 1:  
Average throughput: 47.78 Mbit/s  
95th percentile per-packet one-way delay: 110.968 ms  
Loss rate: 4.78%  
-- Flow 2:  
Average throughput: 31.22 Mbit/s  
95th percentile per-packet one-way delay: 111.343 ms  
Loss rate: 8.27%  
-- Flow 3:  
Average throughput: 41.73 Mbit/s  
95th percentile per-packet one-way delay: 111.267 ms  
Loss rate: 6.19%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-01-17 06:37:31

End at: 2018-01-17 06:38:01

Local clock offset: 0.631 ms

Remote clock offset: 0.493 ms

# Below is generated by plot.py at 2018-01-17 07:21:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 117.346 ms

Loss rate: 6.02%

-- Flow 1:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 116.934 ms

Loss rate: 4.40%

-- Flow 2:

Average throughput: 32.83 Mbit/s

95th percentile per-packet one-way delay: 118.338 ms

Loss rate: 8.40%

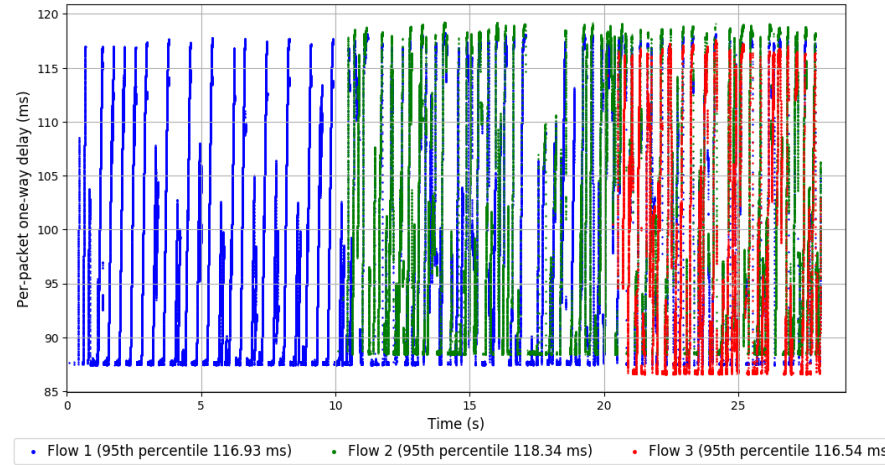
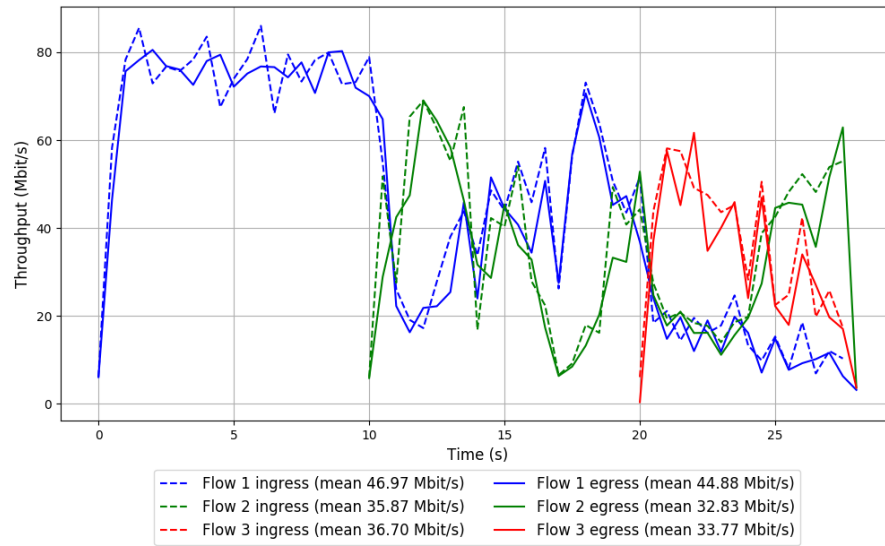
-- Flow 3:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 116.540 ms

Loss rate: 8.10%

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

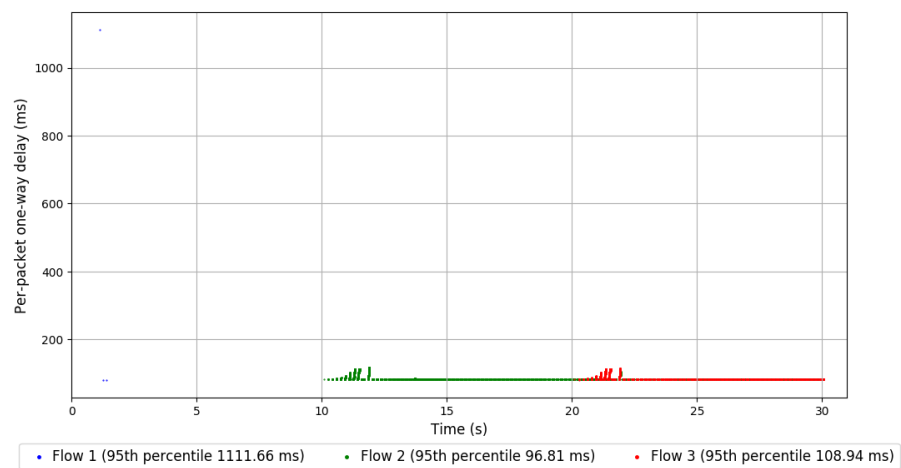
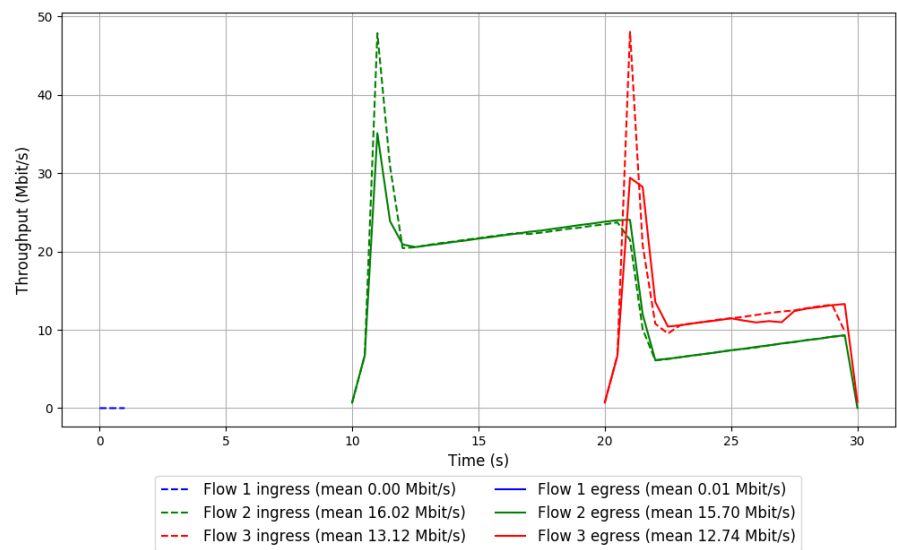


Run 1: Statistics of TCP Vegas

Start at: 2018-01-17 03:05:01  
End at: 2018-01-17 03:05:31  
Local clock offset: 1.069 ms  
Remote clock offset: -5.938 ms

# Below is generated by plot.py at 2018-01-17 07:21:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.19 Mbit/s  
95th percentile per-packet one-way delay: 101.574 ms  
Loss rate: 2.27%  
-- Flow 1:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 1111.658 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 15.70 Mbit/s  
95th percentile per-packet one-way delay: 96.805 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 12.74 Mbit/s  
95th percentile per-packet one-way delay: 108.935 ms  
Loss rate: 2.89%

Run 1: Report of TCP Vegas — Data Link



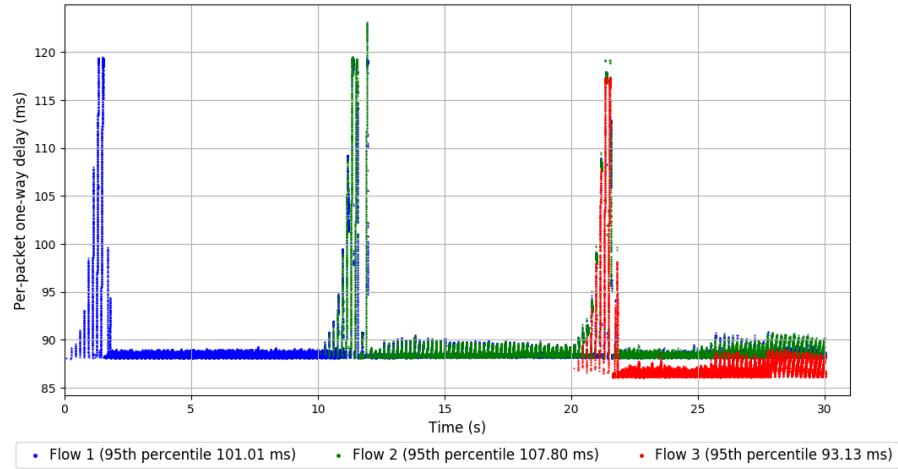
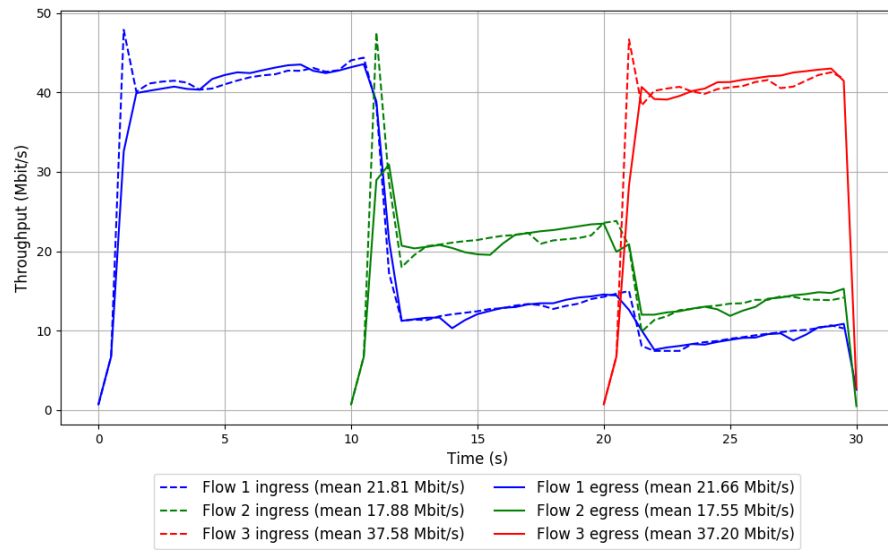
Run 2: Statistics of TCP Vegas

Start at: 2018-01-17 03:28:11  
End at: 2018-01-17 03:28:42  
Local clock offset: 0.996 ms  
Remote clock offset: -0.959 ms

# Below is generated by plot.py at 2018-01-17 07:21:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.69 Mbit/s  
95th percentile per-packet one-way delay: 100.751 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 21.66 Mbit/s  
95th percentile per-packet one-way delay: 101.009 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 17.55 Mbit/s  
95th percentile per-packet one-way delay: 107.804 ms  
Loss rate: 1.82%  
-- Flow 3:  
Average throughput: 37.20 Mbit/s  
95th percentile per-packet one-way delay: 93.133 ms  
Loss rate: 1.00%



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



Run 3: Statistics of TCP Vegas

Start at: 2018-01-17 03:51:28

End at: 2018-01-17 03:51:58

Local clock offset: 0.928 ms

Remote clock offset: -1.9 ms

# Below is generated by plot.py at 2018-01-17 07:21:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.15 Mbit/s

95th percentile per-packet one-way delay: 93.965 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 26.95 Mbit/s

95th percentile per-packet one-way delay: 94.977 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 41.64 Mbit/s

95th percentile per-packet one-way delay: 90.040 ms

Loss rate: 0.44%

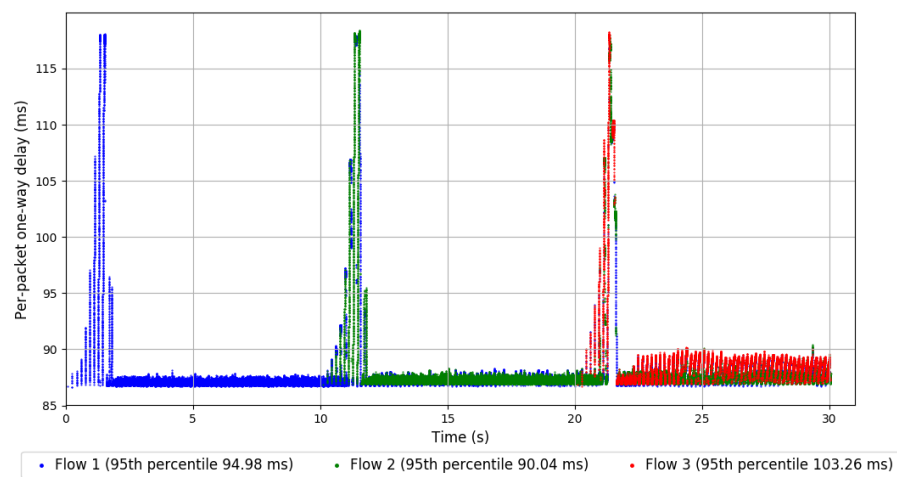
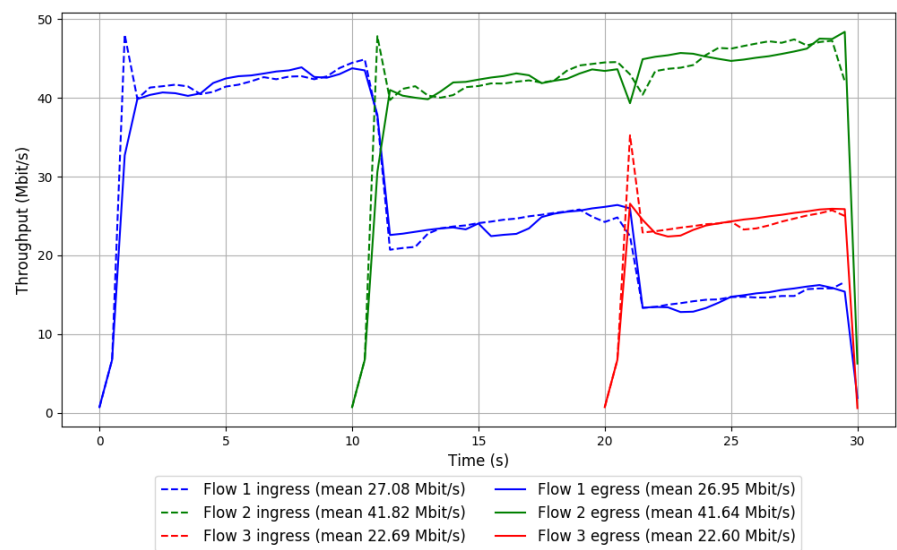
-- Flow 3:

Average throughput: 22.60 Mbit/s

95th percentile per-packet one-way delay: 103.256 ms

Loss rate: 0.41%

Run 3: Report of TCP Vegas — Data Link

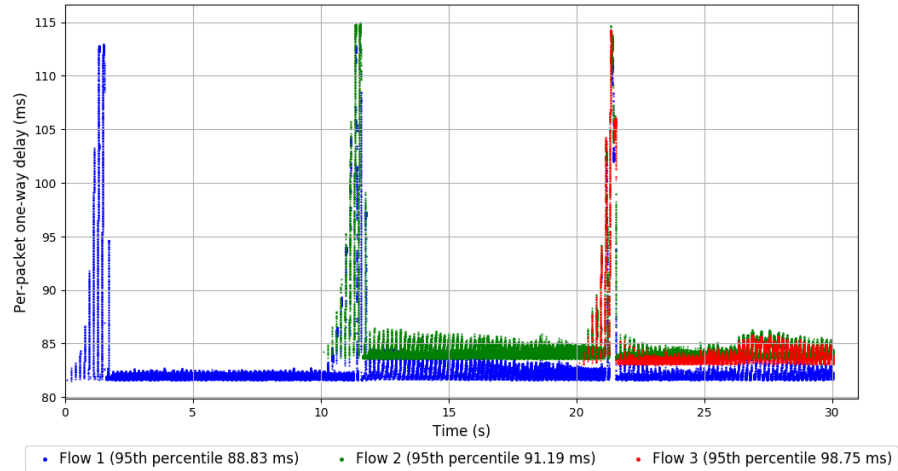
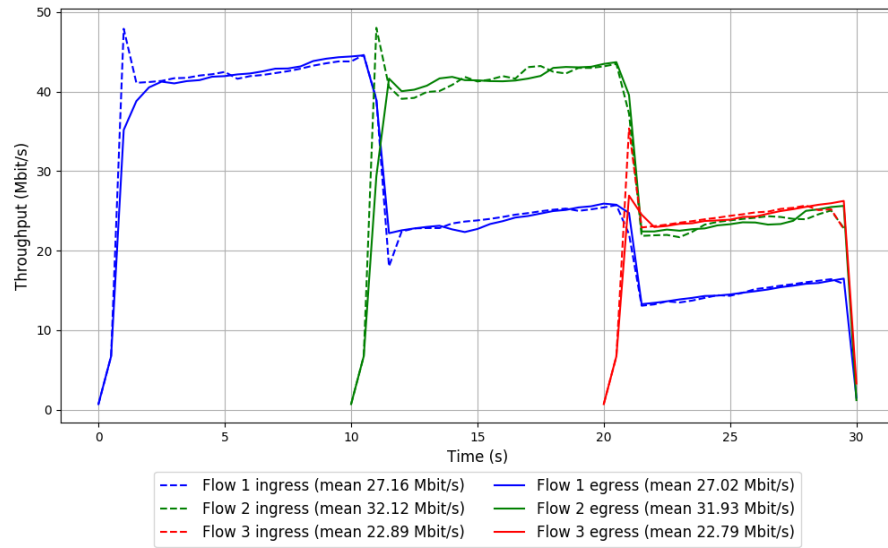


Run 4: Statistics of TCP Vegas

Start at: 2018-01-17 04:14:40  
End at: 2018-01-17 04:15:10  
Local clock offset: 0.88 ms  
Remote clock offset: -5.447 ms

# Below is generated by plot.py at 2018-01-17 07:21:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.85 Mbit/s  
95th percentile per-packet one-way delay: 90.906 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 27.02 Mbit/s  
95th percentile per-packet one-way delay: 88.825 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 31.93 Mbit/s  
95th percentile per-packet one-way delay: 91.194 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 22.79 Mbit/s  
95th percentile per-packet one-way delay: 98.753 ms  
Loss rate: 0.44%

# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-17 04:38:03

End at: 2018-01-17 04:38:33

Local clock offset: 0.73 ms

Remote clock offset: 9.105 ms

# Below is generated by plot.py at 2018-01-17 07:21:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.20 Mbit/s

95th percentile per-packet one-way delay: 107.473 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 106.467 ms

Loss rate: 0.41%

-- Flow 2:

Average throughput: 32.91 Mbit/s

95th percentile per-packet one-way delay: 108.725 ms

Loss rate: 0.58%

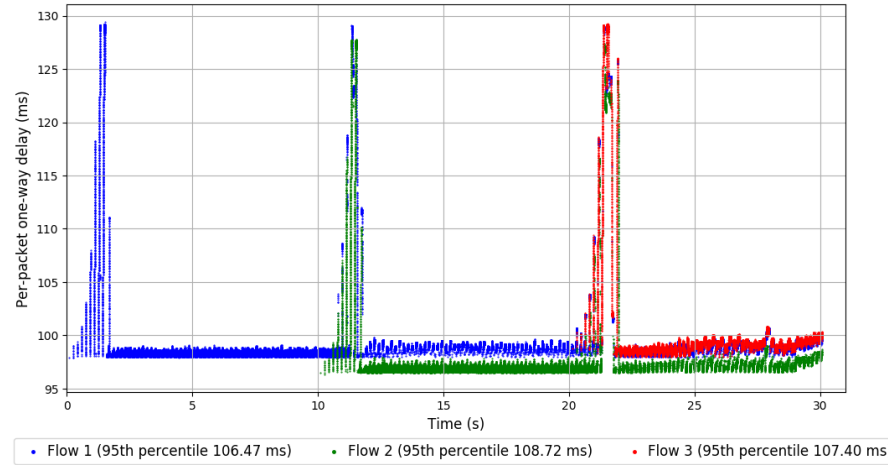
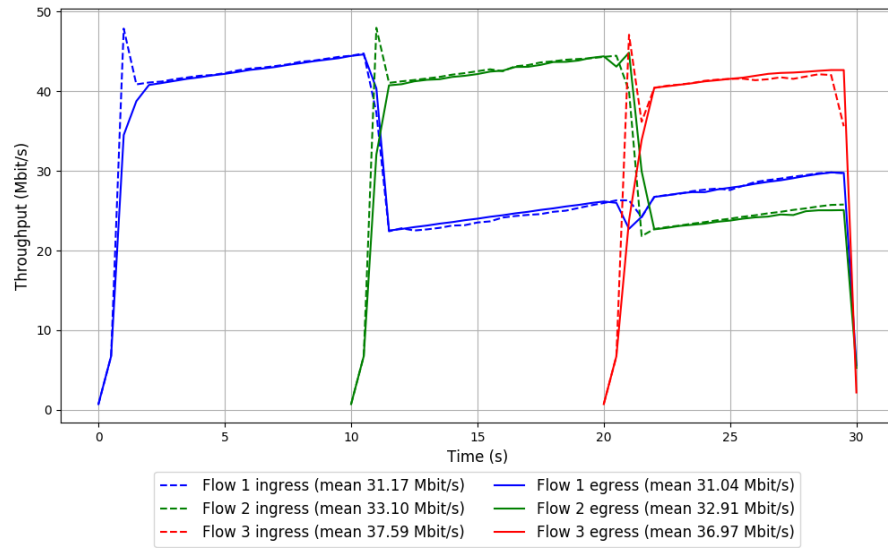
-- Flow 3:

Average throughput: 36.97 Mbit/s

95th percentile per-packet one-way delay: 107.396 ms

Loss rate: 1.64%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-17 05:01:28

End at: 2018-01-17 05:01:58

Local clock offset: 0.721 ms

Remote clock offset: 3.431 ms

# Below is generated by plot.py at 2018-01-17 07:21:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 53.61 Mbit/s

95th percentile per-packet one-way delay: 105.180 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 102.135 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 31.86 Mbit/s

95th percentile per-packet one-way delay: 103.906 ms

Loss rate: 0.59%

-- Flow 3:

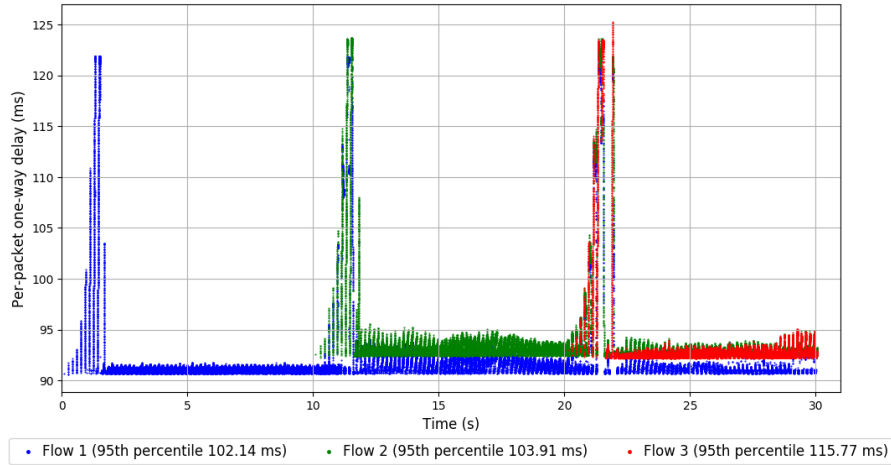
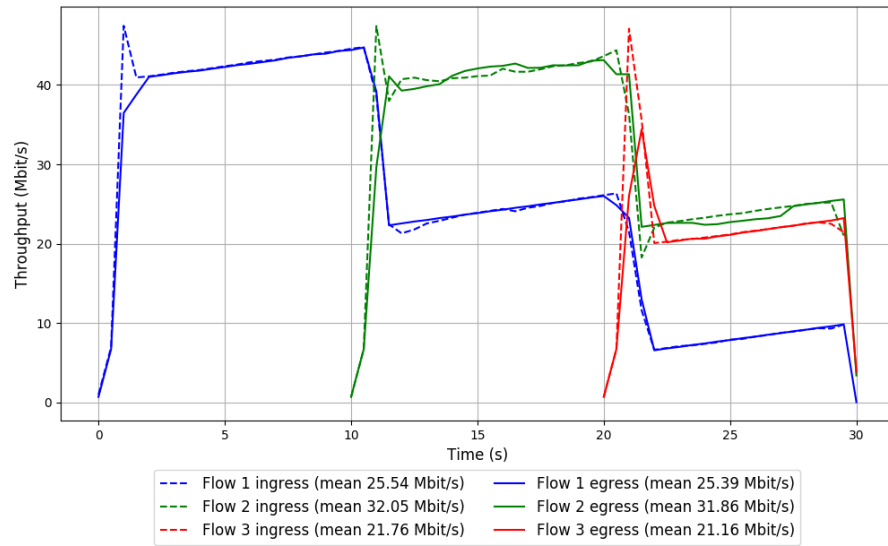
Average throughput: 21.16 Mbit/s

95th percentile per-packet one-way delay: 115.772 ms

Loss rate: 2.75%



# Run 6: Report of TCP Vegas — Data Link

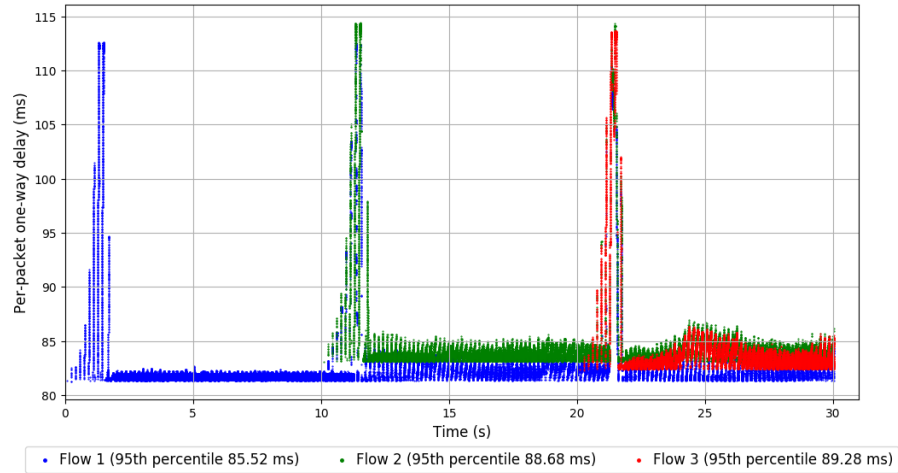
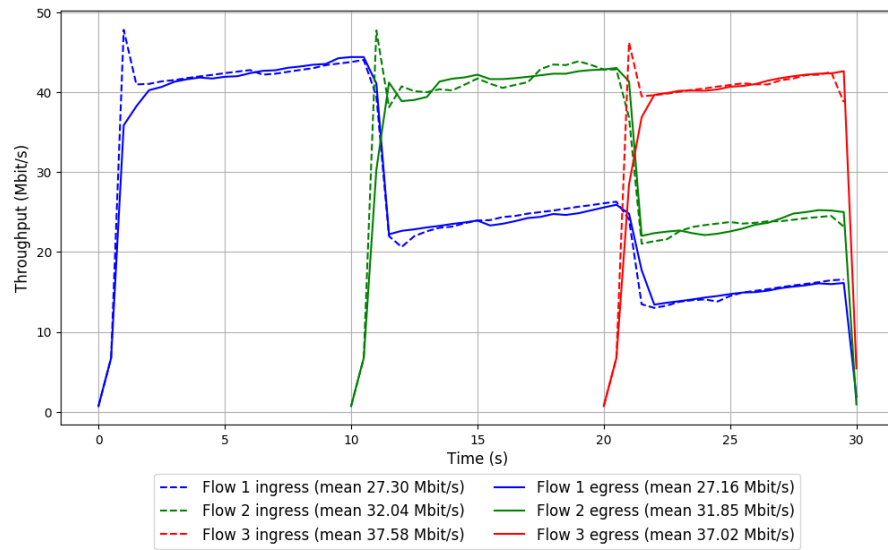


Run 7: Statistics of TCP Vegas

Start at: 2018-01-17 05:24:48  
End at: 2018-01-17 05:25:18  
Local clock offset: 0.615 ms  
Remote clock offset: -5.934 ms

# Below is generated by plot.py at 2018-01-17 07:21:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.63 Mbit/s  
95th percentile per-packet one-way delay: 87.253 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 27.16 Mbit/s  
95th percentile per-packet one-way delay: 85.516 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 31.85 Mbit/s  
95th percentile per-packet one-way delay: 88.684 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 37.02 Mbit/s  
95th percentile per-packet one-way delay: 89.278 ms  
Loss rate: 1.49%

# Run 7: Report of TCP Vegas — Data Link

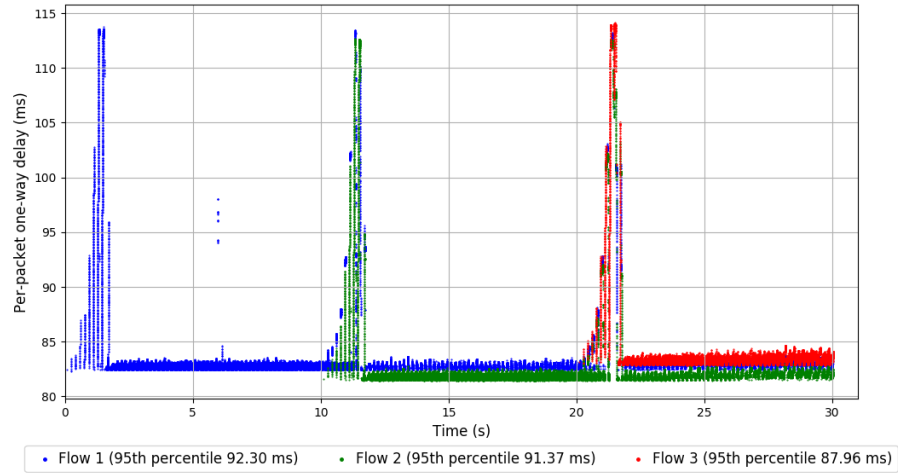
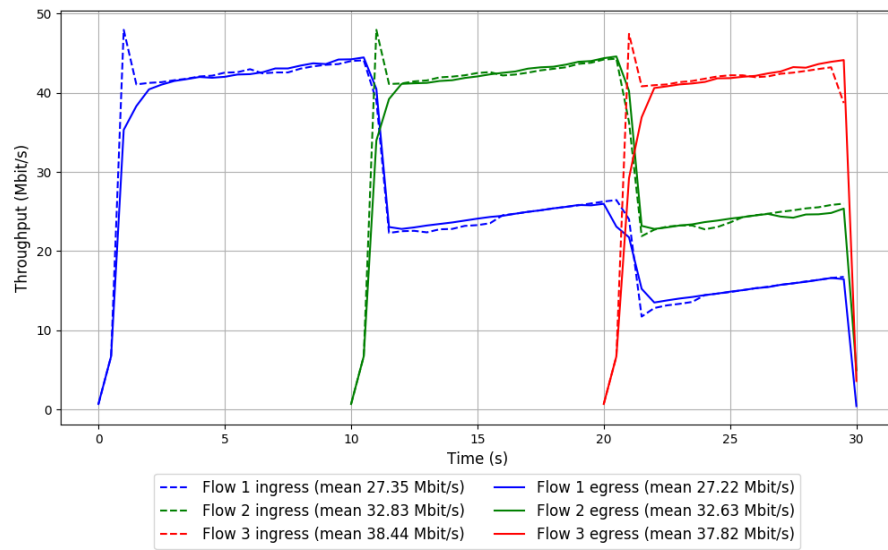


Run 8: Statistics of TCP Vegas

Start at: 2018-01-17 05:48:10  
End at: 2018-01-17 05:48:40  
Local clock offset: 0.666 ms  
Remote clock offset: -5.234 ms

# Below is generated by plot.py at 2018-01-17 07:21:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.51 Mbit/s  
95th percentile per-packet one-way delay: 91.674 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 27.22 Mbit/s  
95th percentile per-packet one-way delay: 92.301 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 32.63 Mbit/s  
95th percentile per-packet one-way delay: 91.370 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 37.82 Mbit/s  
95th percentile per-packet one-way delay: 87.963 ms  
Loss rate: 1.60%

# Run 8: Report of TCP Vegas — Data Link

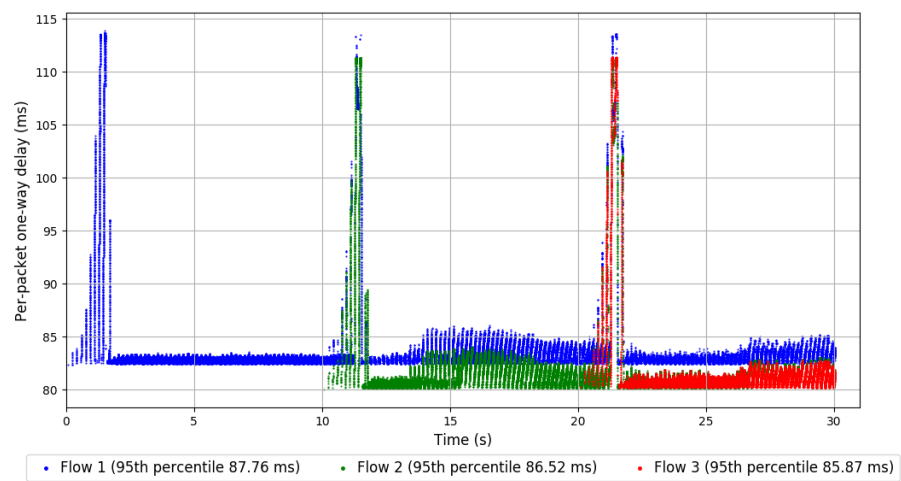
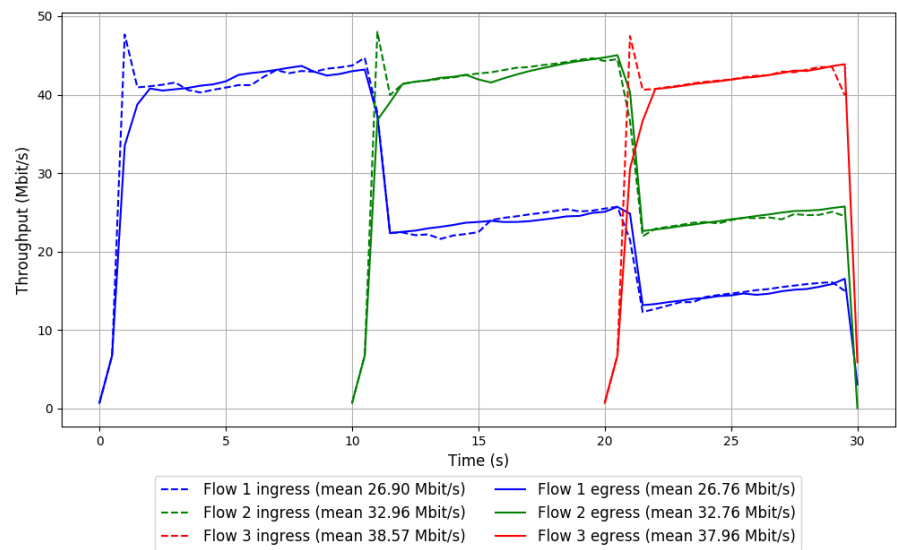


Run 9: Statistics of TCP Vegas

Start at: 2018-01-17 06:11:38  
End at: 2018-01-17 06:12:08  
Local clock offset: 0.704 ms  
Remote clock offset: -5.963 ms

# Below is generated by plot.py at 2018-01-17 07:21:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.20 Mbit/s  
95th percentile per-packet one-way delay: 86.995 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 26.76 Mbit/s  
95th percentile per-packet one-way delay: 87.762 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 32.76 Mbit/s  
95th percentile per-packet one-way delay: 86.520 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 37.96 Mbit/s  
95th percentile per-packet one-way delay: 85.872 ms  
Loss rate: 1.57%

Run 9: Report of TCP Vegas — Data Link



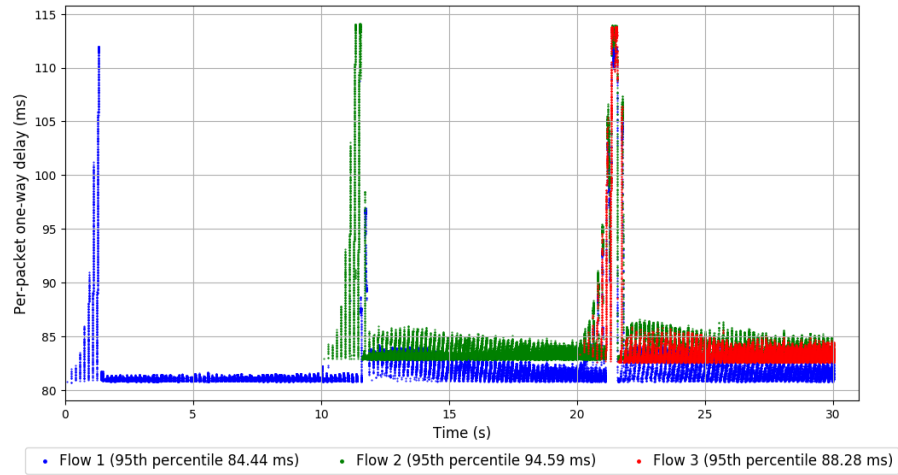
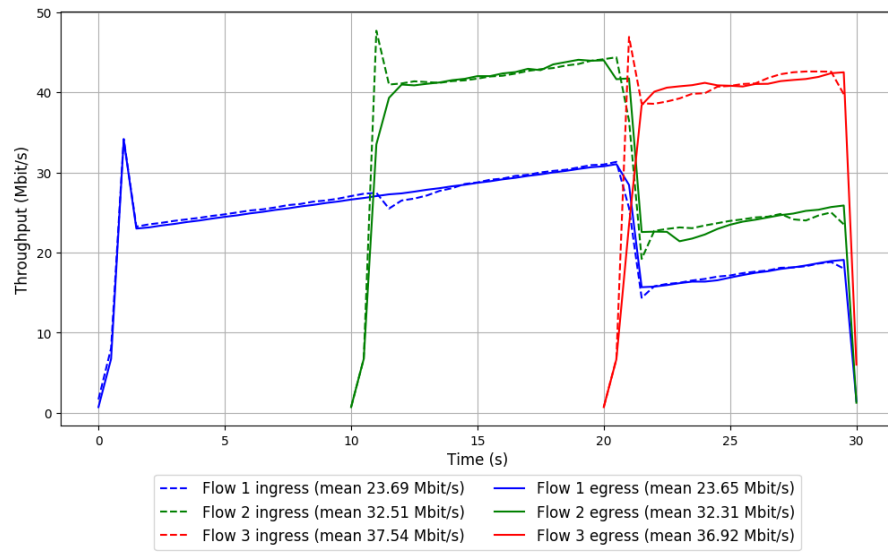
Run 10: Statistics of TCP Vegas

Start at: 2018-01-17 06:34:59  
End at: 2018-01-17 06:35:29  
Local clock offset: 0.636 ms  
Remote clock offset: -4.367 ms

# Below is generated by plot.py at 2018-01-17 07:21:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.42 Mbit/s  
95th percentile per-packet one-way delay: 89.461 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 23.65 Mbit/s  
95th percentile per-packet one-way delay: 84.438 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 32.31 Mbit/s  
95th percentile per-packet one-way delay: 94.592 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 36.92 Mbit/s  
95th percentile per-packet one-way delay: 88.285 ms  
Loss rate: 1.66%



# Run 10: Report of TCP Vegas — Data Link

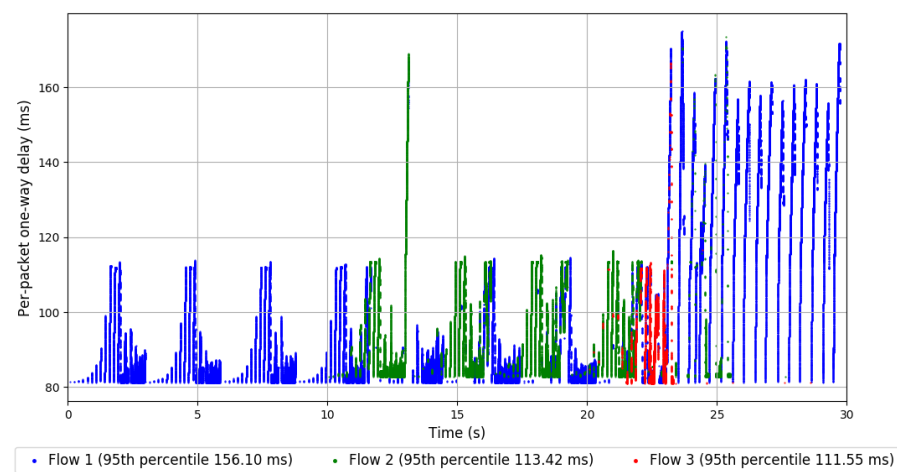
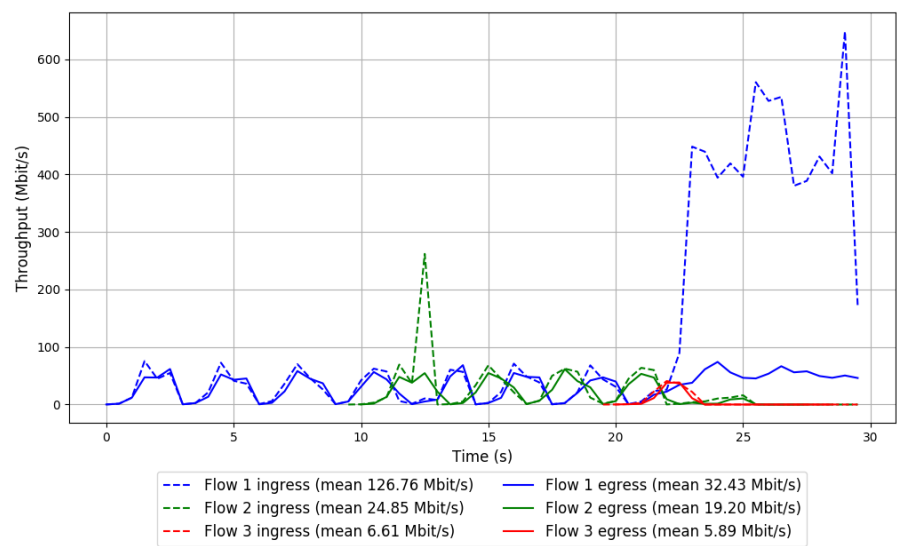


Run 1: Statistics of Verus

Start at: 2018-01-17 03:02:28  
End at: 2018-01-17 03:02:58  
Local clock offset: 1.066 ms  
Remote clock offset: -5.198 ms

# Below is generated by plot.py at 2018-01-17 07:21:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.50 Mbit/s  
95th percentile per-packet one-way delay: 153.738 ms  
Loss rate: 68.61%  
-- Flow 1:  
Average throughput: 32.43 Mbit/s  
95th percentile per-packet one-way delay: 156.104 ms  
Loss rate: 74.35%  
-- Flow 2:  
Average throughput: 19.20 Mbit/s  
95th percentile per-packet one-way delay: 113.421 ms  
Loss rate: 30.66%  
-- Flow 3:  
Average throughput: 5.89 Mbit/s  
95th percentile per-packet one-way delay: 111.552 ms  
Loss rate: 20.28%

Run 1: Report of Verus — Data Link

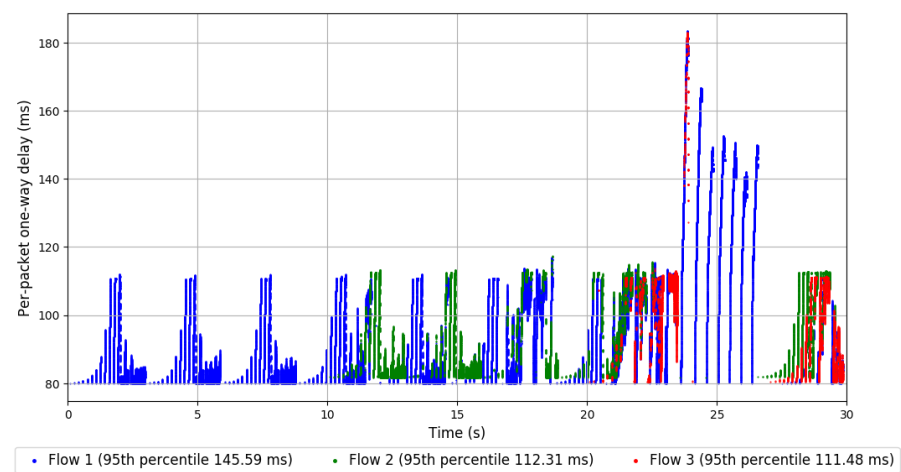
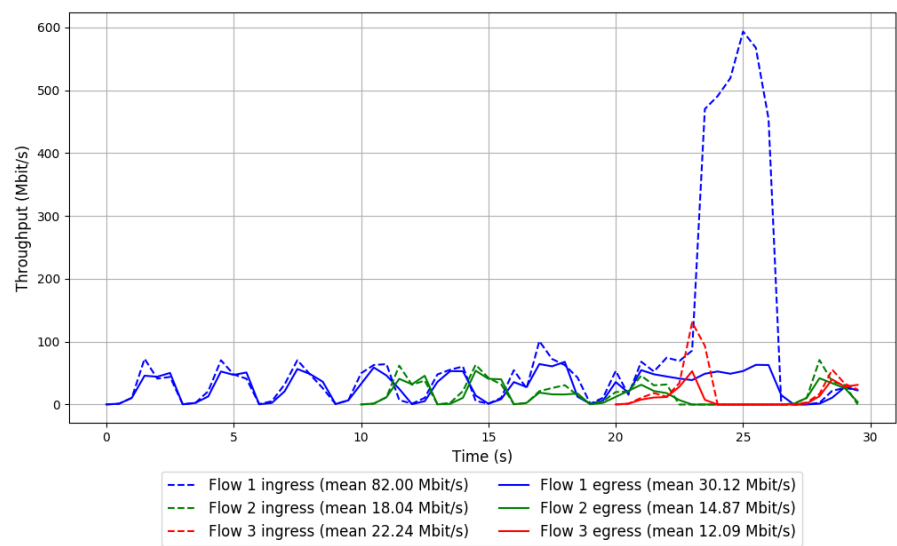


Run 2: Statistics of Verus

Start at: 2018-01-17 03:25:40  
End at: 2018-01-17 03:26:10  
Local clock offset: 1.024 ms  
Remote clock offset: -6.603 ms

# Below is generated by plot.py at 2018-01-17 07:21:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.89 Mbit/s  
95th percentile per-packet one-way delay: 140.806 ms  
Loss rate: 56.62%  
-- Flow 1:  
Average throughput: 30.12 Mbit/s  
95th percentile per-packet one-way delay: 145.595 ms  
Loss rate: 63.26%  
-- Flow 2:  
Average throughput: 14.87 Mbit/s  
95th percentile per-packet one-way delay: 112.312 ms  
Loss rate: 17.59%  
-- Flow 3:  
Average throughput: 12.09 Mbit/s  
95th percentile per-packet one-way delay: 111.479 ms  
Loss rate: 45.63%

Run 2: Report of Verus — Data Link

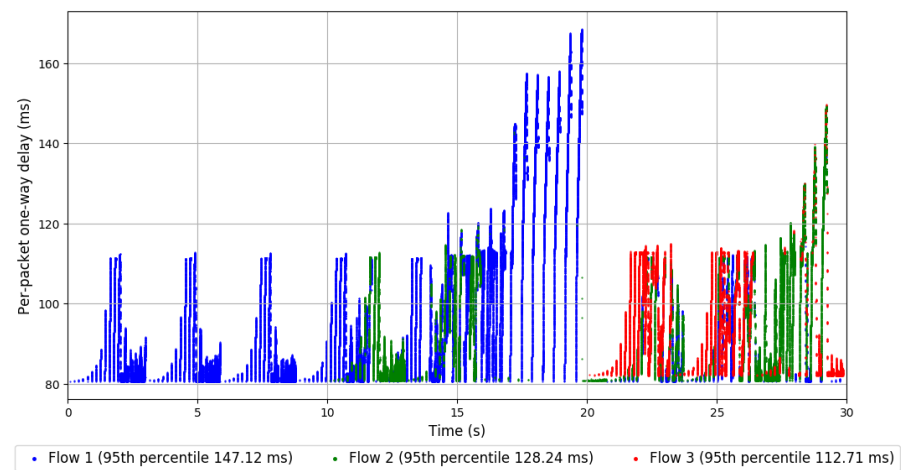
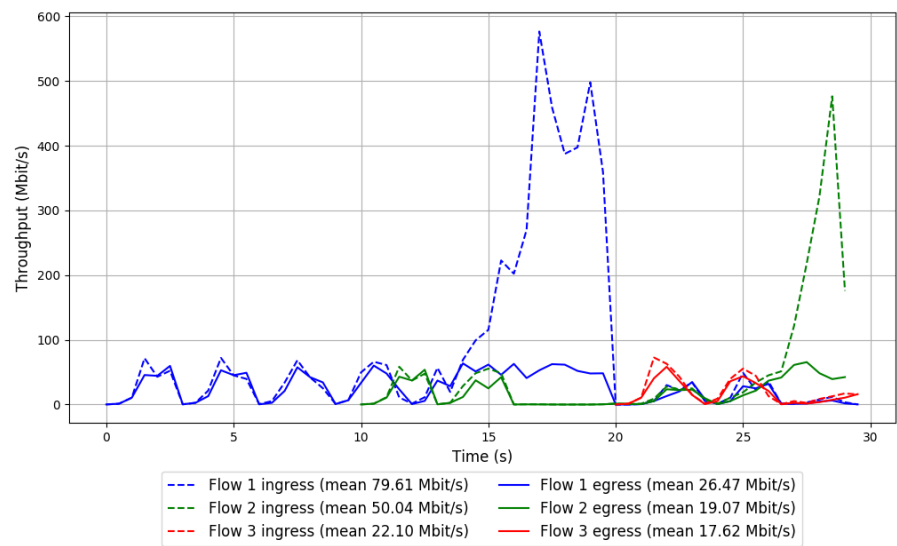


Run 3: Statistics of Verus

Start at: 2018-01-17 03:48:57  
End at: 2018-01-17 03:49:27  
Local clock offset: 0.867 ms  
Remote clock offset: -6.794 ms

# Below is generated by plot.py at 2018-01-17 07:21:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 44.40 Mbit/s  
95th percentile per-packet one-way delay: 140.780 ms  
Loss rate: 62.58%  
-- Flow 1:  
Average throughput: 26.47 Mbit/s  
95th percentile per-packet one-way delay: 147.118 ms  
Loss rate: 66.76%  
-- Flow 2:  
Average throughput: 19.07 Mbit/s  
95th percentile per-packet one-way delay: 128.240 ms  
Loss rate: 61.82%  
-- Flow 3:  
Average throughput: 17.62 Mbit/s  
95th percentile per-packet one-way delay: 112.710 ms  
Loss rate: 20.25%

Run 3: Report of Verus — Data Link



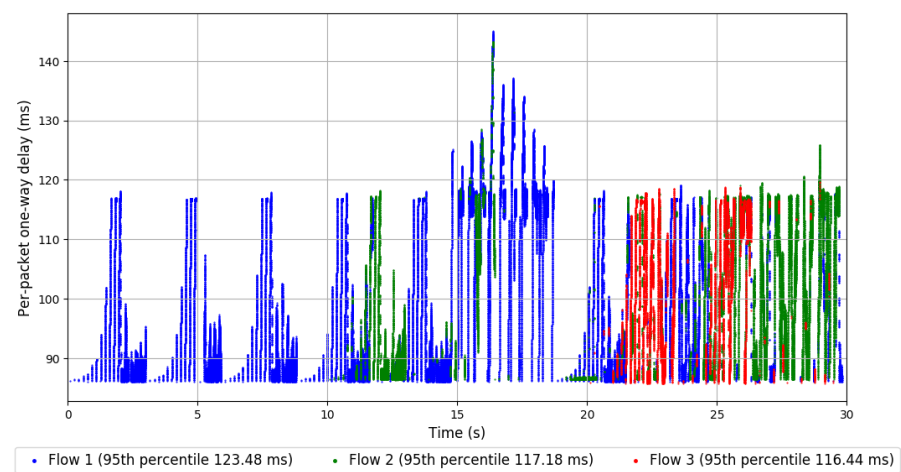
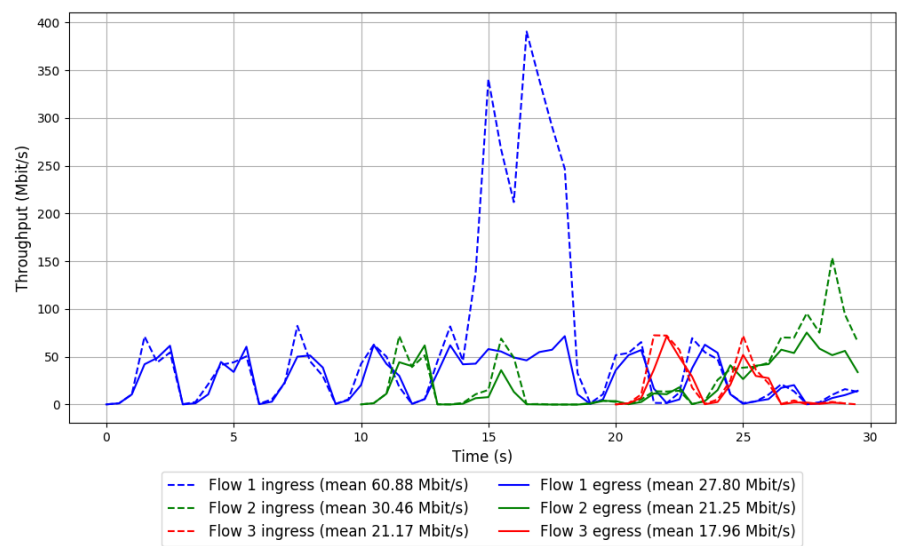
Run 4: Statistics of Verus

Start at: 2018-01-17 04:12:09  
End at: 2018-01-17 04:12:39  
Local clock offset: 0.882 ms  
Remote clock offset: -0.671 ms

# Below is generated by plot.py at 2018-01-17 07:22:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.47 Mbit/s  
95th percentile per-packet one-way delay: 118.833 ms  
Loss rate: 45.88%  
-- Flow 1:  
Average throughput: 27.80 Mbit/s  
95th percentile per-packet one-way delay: 123.476 ms  
Loss rate: 54.33%  
-- Flow 2:  
Average throughput: 21.25 Mbit/s  
95th percentile per-packet one-way delay: 117.180 ms  
Loss rate: 30.15%  
-- Flow 3:  
Average throughput: 17.96 Mbit/s  
95th percentile per-packet one-way delay: 116.436 ms  
Loss rate: 16.64%



Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-17 04:35:32

End at: 2018-01-17 04:36:02

Local clock offset: 0.801 ms

Remote clock offset: 9.929 ms

# Below is generated by plot.py at 2018-01-17 07:22:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 44.94 Mbit/s

95th percentile per-packet one-way delay: 128.896 ms

Loss rate: 30.49%

-- Flow 1:

Average throughput: 25.56 Mbit/s

95th percentile per-packet one-way delay: 128.405 ms

Loss rate: 36.20%

-- Flow 2:

Average throughput: 20.38 Mbit/s

95th percentile per-packet one-way delay: 129.474 ms

Loss rate: 15.61%

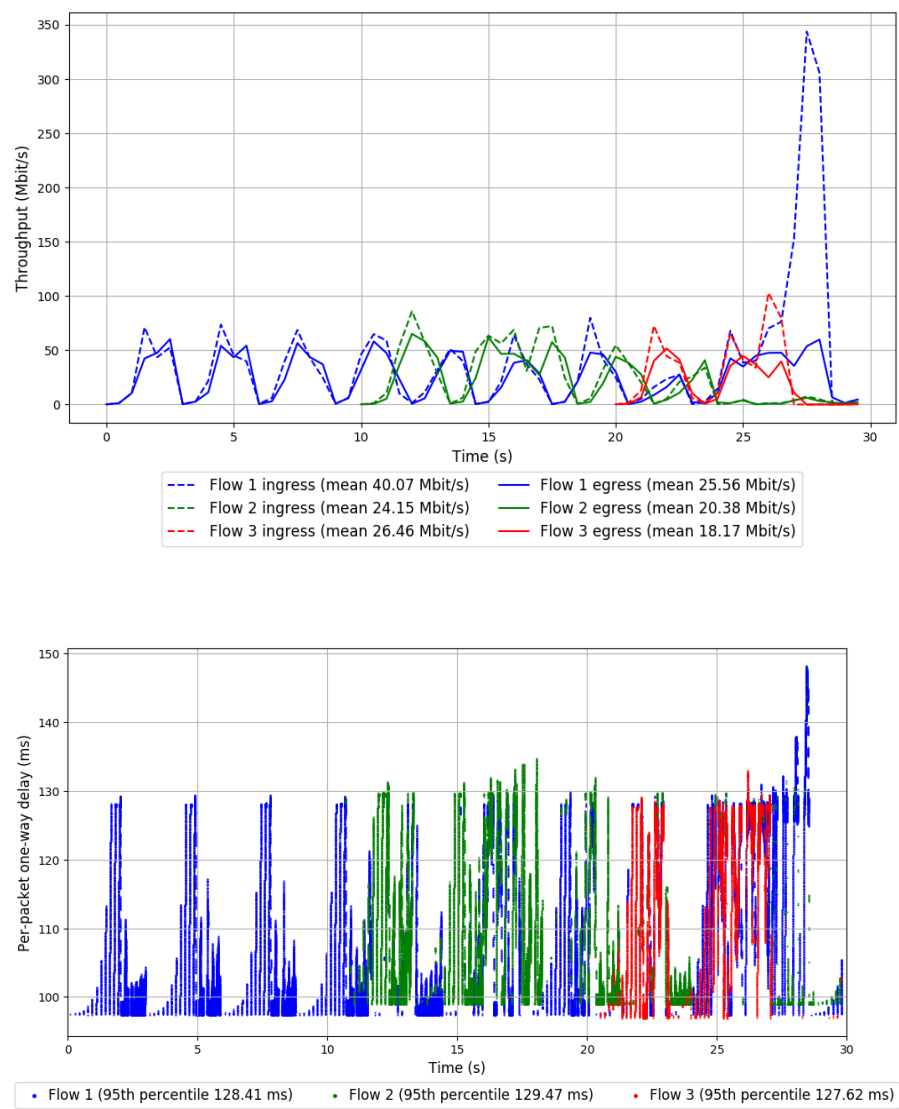
-- Flow 3:

Average throughput: 18.17 Mbit/s

95th percentile per-packet one-way delay: 127.616 ms

Loss rate: 31.50%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-17 04:58:56

End at: 2018-01-17 04:59:26

Local clock offset: 0.72 ms

Remote clock offset: 8.305 ms

# Below is generated by plot.py at 2018-01-17 07:22:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 43.57 Mbit/s

95th percentile per-packet one-way delay: 174.940 ms

Loss rate: 74.81%

-- Flow 1:

Average throughput: 19.04 Mbit/s

95th percentile per-packet one-way delay: 126.330 ms

Loss rate: 23.97%

-- Flow 2:

Average throughput: 36.83 Mbit/s

95th percentile per-packet one-way delay: 179.771 ms

Loss rate: 83.46%

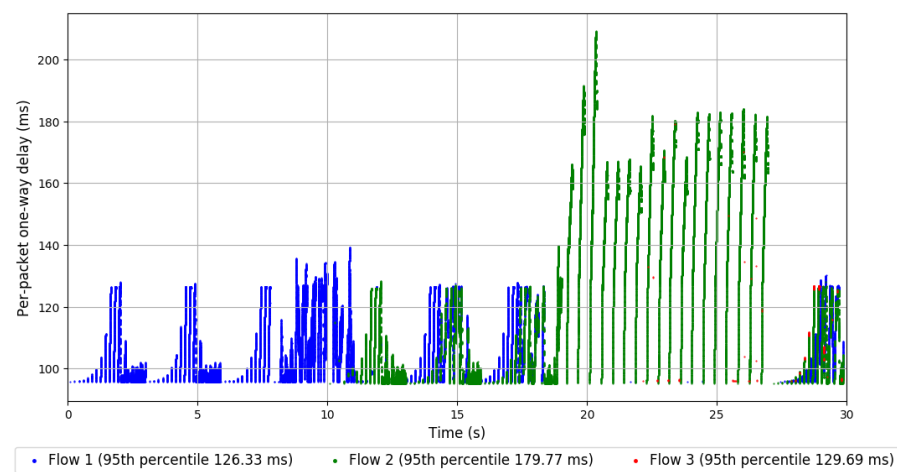
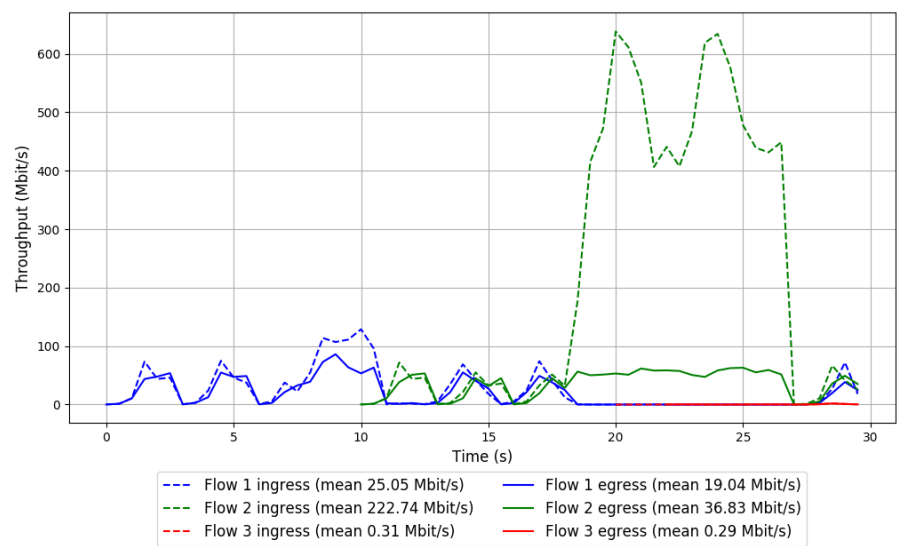
-- Flow 3:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 129.693 ms

Loss rate: 25.79%

Run 6: Report of Verus — Data Link

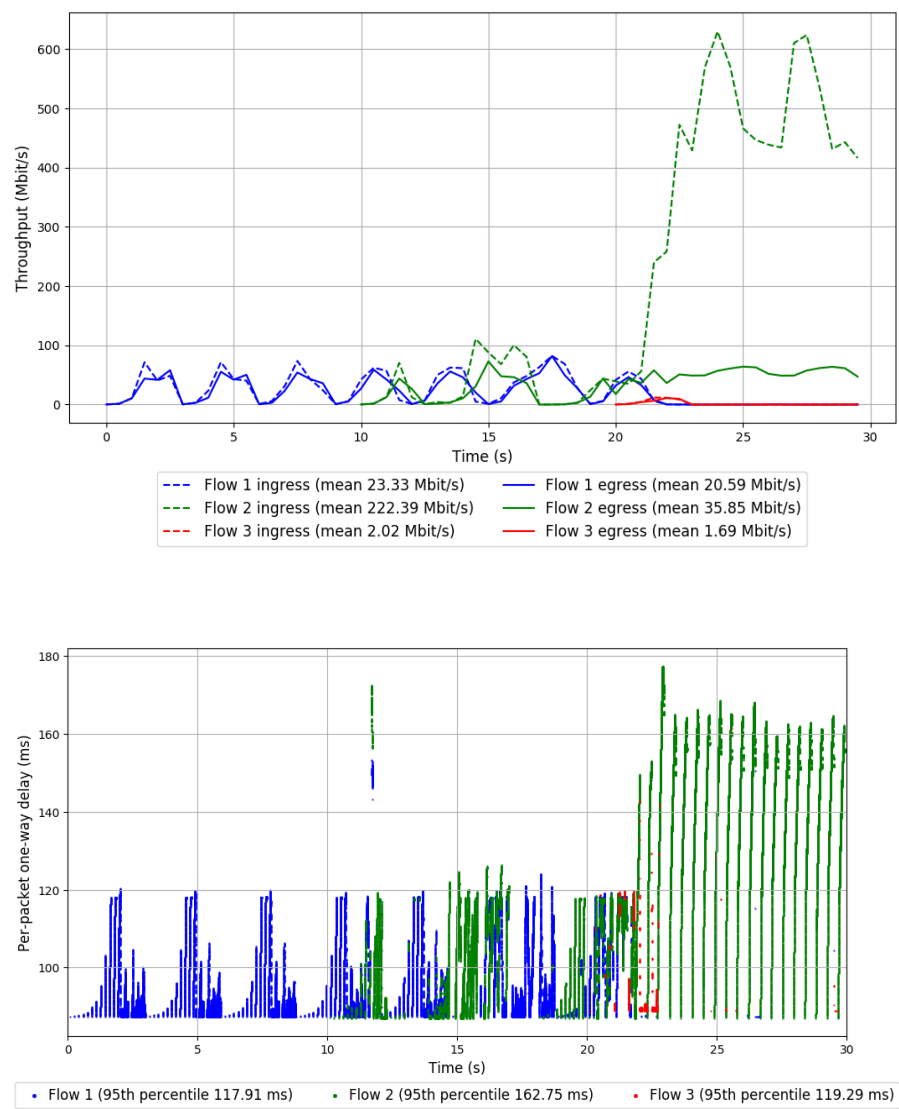


Run 7: Statistics of Verus

Start at: 2018-01-17 05:22:15  
End at: 2018-01-17 05:22:45  
Local clock offset: 0.709 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-01-17 07:22:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 44.77 Mbit/s  
95th percentile per-packet one-way delay: 160.174 ms  
Loss rate: 73.84%  
-- Flow 1:  
Average throughput: 20.59 Mbit/s  
95th percentile per-packet one-way delay: 117.908 ms  
Loss rate: 12.26%  
-- Flow 2:  
Average throughput: 35.85 Mbit/s  
95th percentile per-packet one-way delay: 162.747 ms  
Loss rate: 83.83%  
-- Flow 3:  
Average throughput: 1.69 Mbit/s  
95th percentile per-packet one-way delay: 119.291 ms  
Loss rate: 17.36%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-17 05:45:38

End at: 2018-01-17 05:46:08

Local clock offset: 0.603 ms

Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-01-17 07:22:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 46.50 Mbit/s

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

Loss rate: 67.42%

-- Flow 1:

Average throughput: 26.15 Mbit/s

95th percentile per-packet one-way delay: 138.391 ms

Loss rate: 64.49%

-- Flow 2:

Average throughput: 30.18 Mbit/s

95th percentile per-packet one-way delay: 163.648 ms

Loss rate: 72.44%

-- Flow 3:

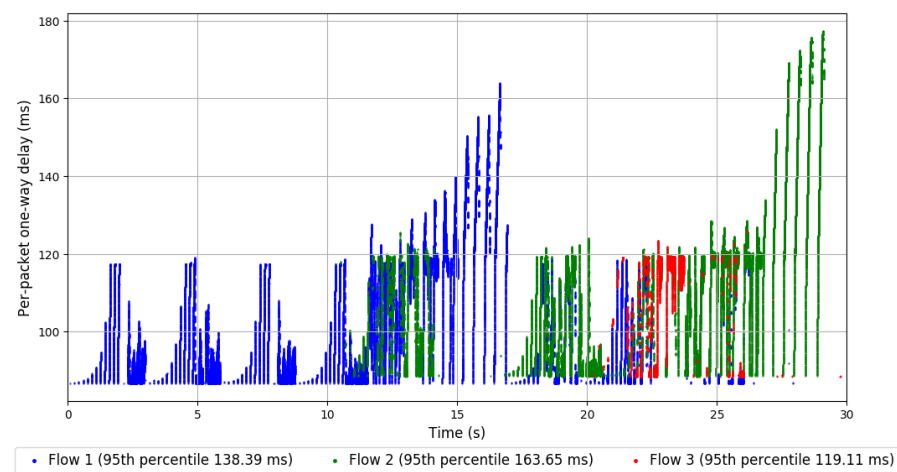
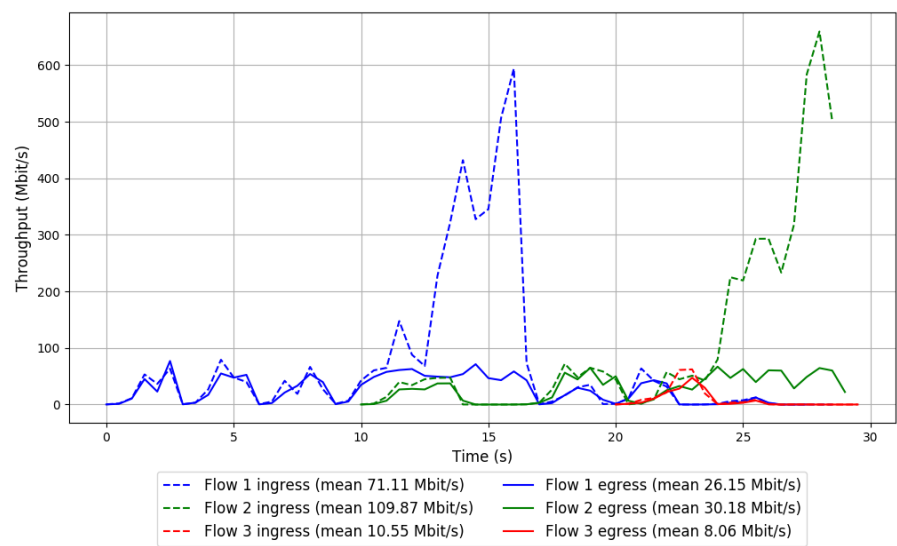
Average throughput: 8.06 Mbit/s

95th percentile per-packet one-way delay: 119.114 ms

Loss rate: 23.58%



Run 8: Report of Verus — Data Link

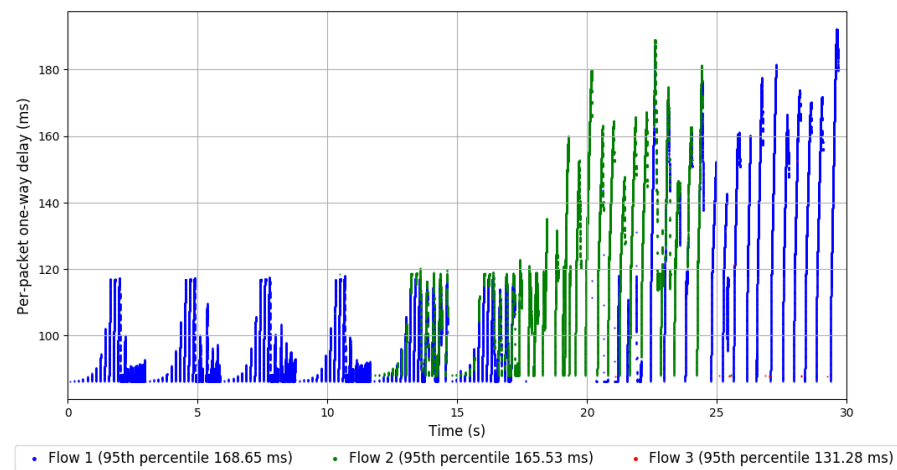
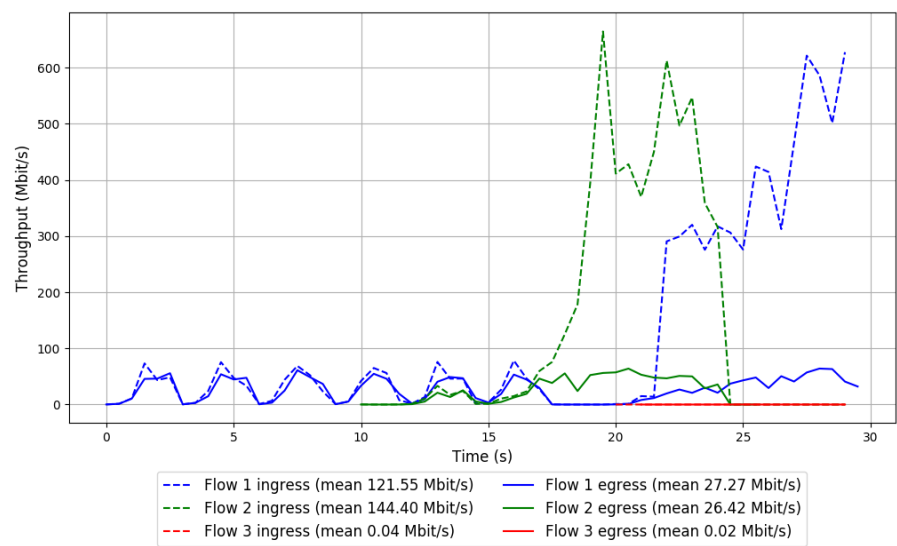


Run 9: Statistics of Verus

Start at: 2018-01-17 06:08:57  
End at: 2018-01-17 06:09:27  
Local clock offset: 0.705 ms  
Remote clock offset: -0.325 ms

# Below is generated by plot.py at 2018-01-17 07:22:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 41.08 Mbit/s  
95th percentile per-packet one-way delay: 167.747 ms  
Loss rate: 81.01%  
-- Flow 1:  
Average throughput: 27.27 Mbit/s  
95th percentile per-packet one-way delay: 168.648 ms  
Loss rate: 77.49%  
-- Flow 2:  
Average throughput: 26.42 Mbit/s  
95th percentile per-packet one-way delay: 165.535 ms  
Loss rate: 85.49%  
-- Flow 3:  
Average throughput: 0.02 Mbit/s  
95th percentile per-packet one-way delay: 131.276 ms  
Loss rate: 60.61%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-17 06:32:28

End at: 2018-01-17 06:32:58

Local clock offset: 0.684 ms

Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-01-17 07:22:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 43.78 Mbit/s

95th percentile per-packet one-way delay: 147.423 ms

Loss rate: 70.12%

-- Flow 1:

Average throughput: 17.22 Mbit/s

95th percentile per-packet one-way delay: 116.811 ms

Loss rate: 13.07%

-- Flow 2:

Average throughput: 35.23 Mbit/s

95th percentile per-packet one-way delay: 156.495 ms

Loss rate: 80.11%

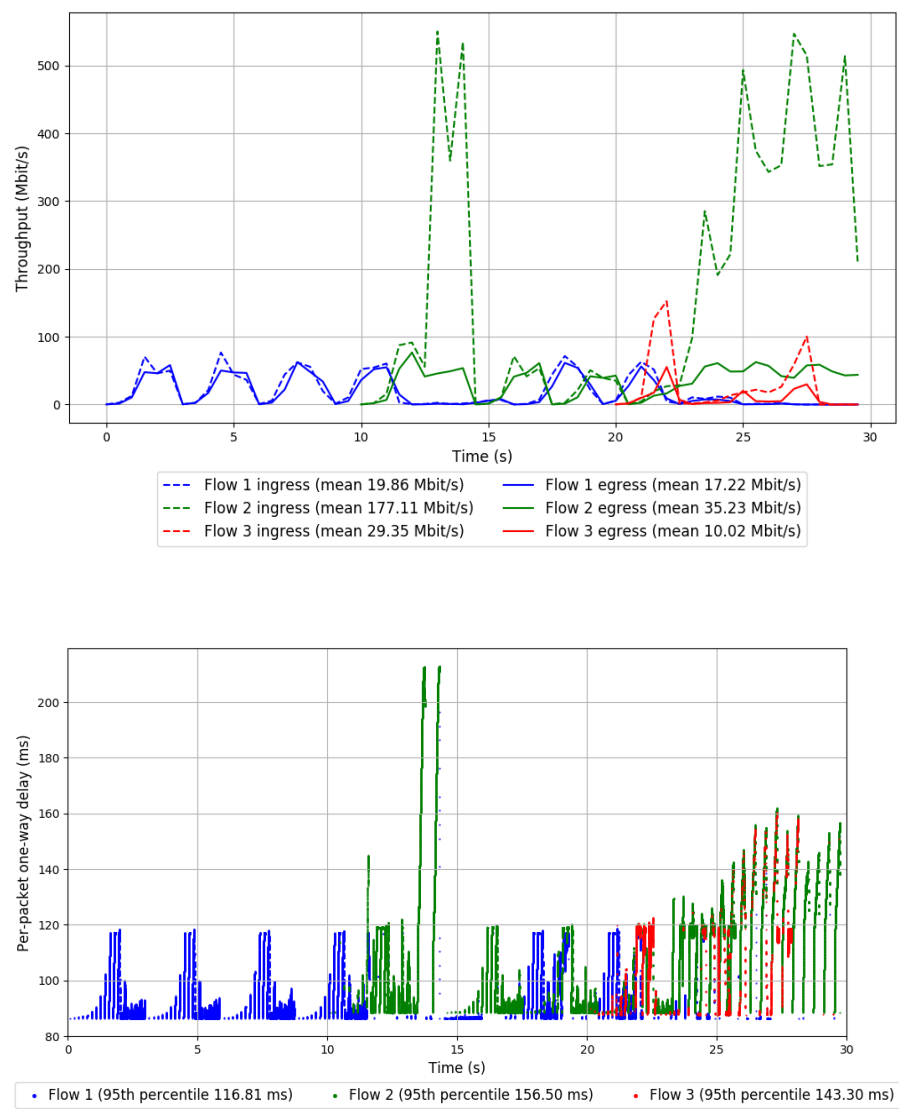
-- Flow 3:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 143.298 ms

Loss rate: 65.65%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

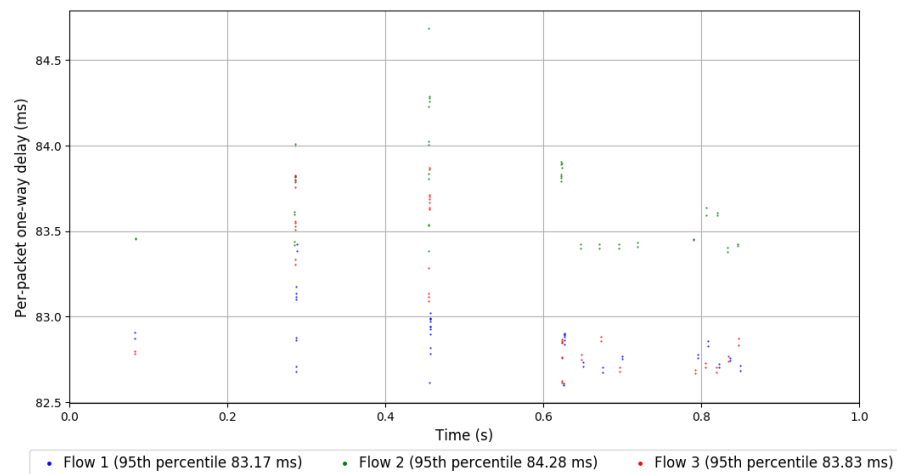
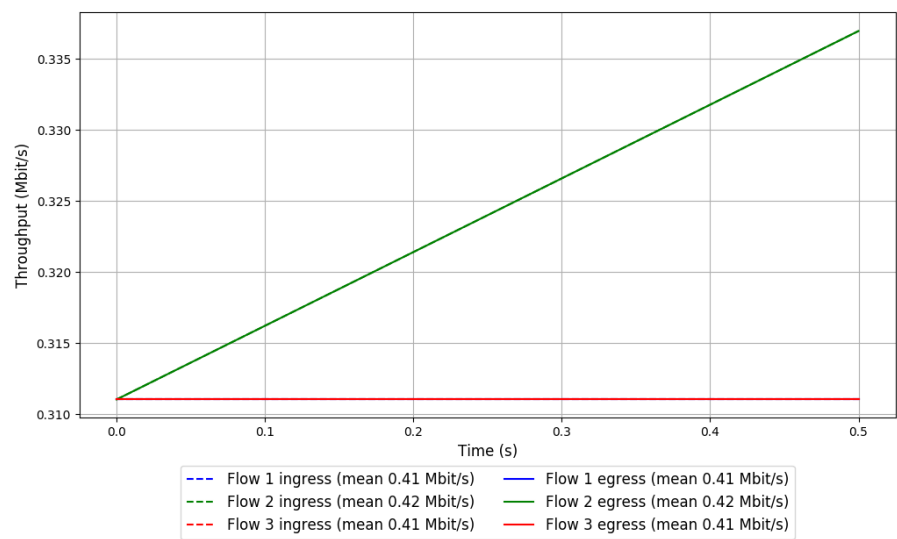
Start at: 2018-01-17 03:08:50

End at: 2018-01-17 03:09:20

Local clock offset: 1.088 ms

Remote clock offset: -5.323 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-17 03:32:03

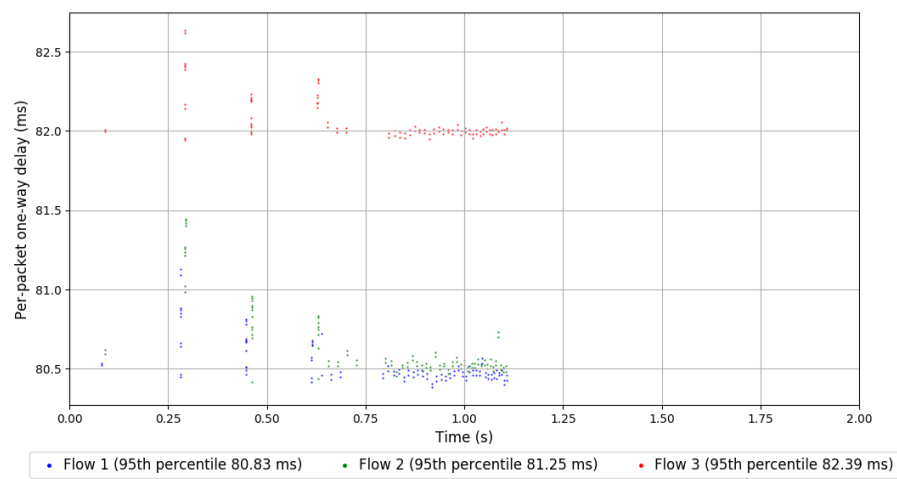
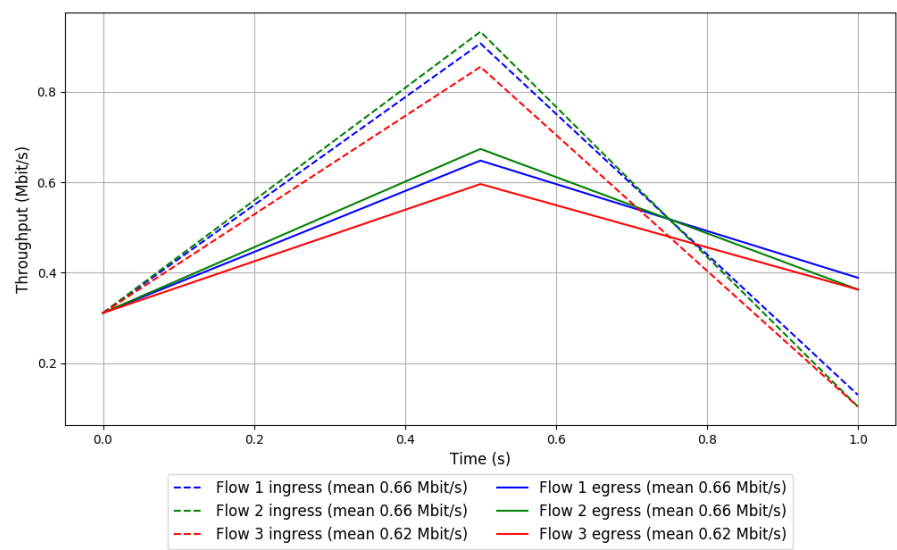
End at: 2018-01-17 03:32:33

Local clock offset: 0.986 ms

Remote clock offset: -6.75 ms



Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

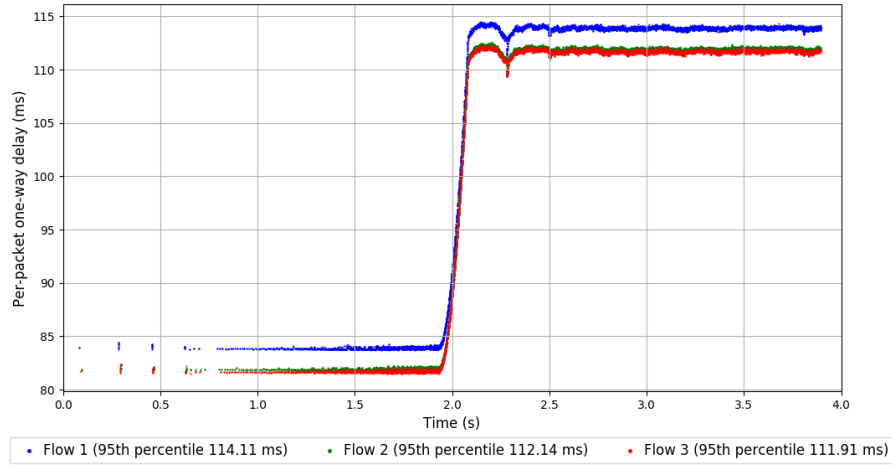
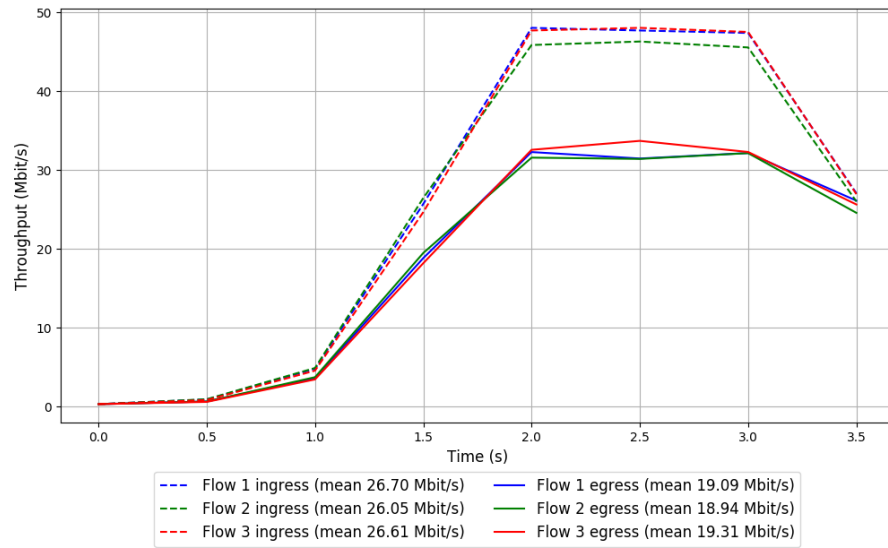
Start at: 2018-01-17 03:55:21

End at: 2018-01-17 03:55:51

Local clock offset: 0.867 ms

Remote clock offset: -5.777 ms

### Run 3: Report of Copa — Data Link

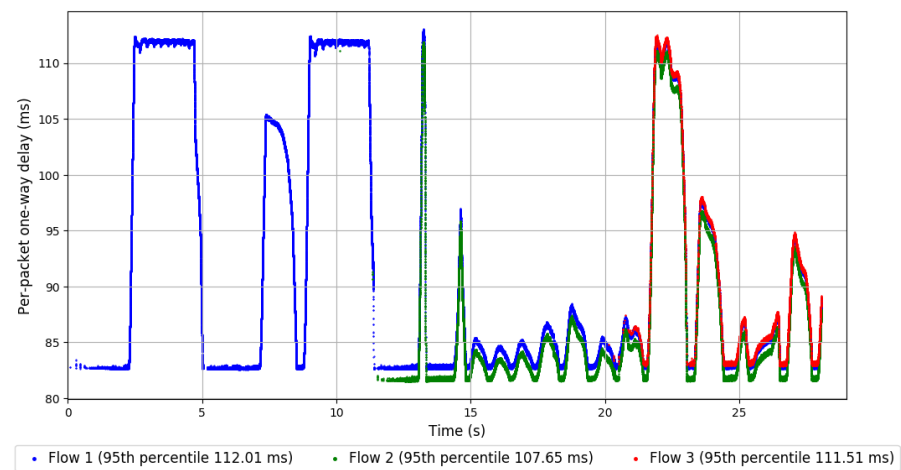
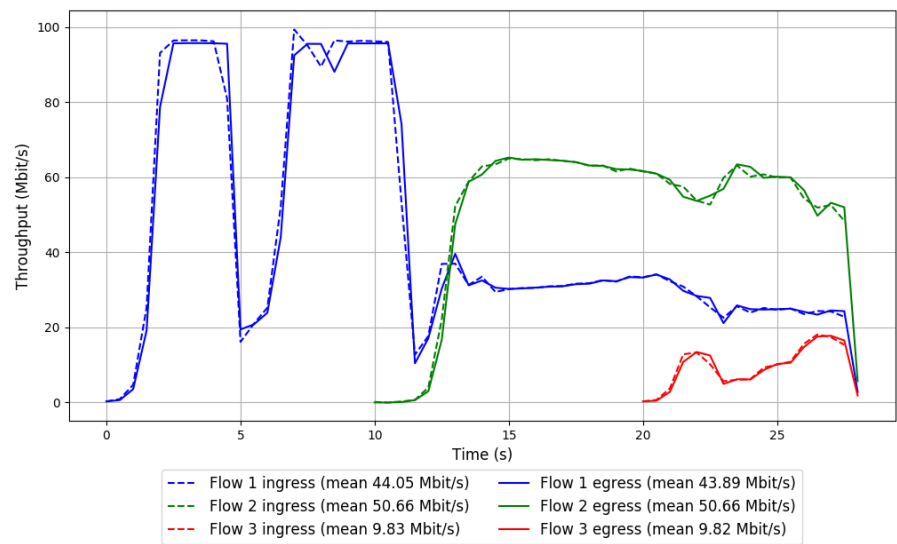


Run 4: Statistics of Copa

Start at: 2018-01-17 04:18:32  
End at: 2018-01-17 04:19:02  
Local clock offset: 0.871 ms  
Remote clock offset: -5.546 ms

# Below is generated by plot.py at 2018-01-17 07:23:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.12 Mbit/s  
95th percentile per-packet one-way delay: 111.961 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 43.89 Mbit/s  
95th percentile per-packet one-way delay: 112.012 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 50.66 Mbit/s  
95th percentile per-packet one-way delay: 107.647 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 9.82 Mbit/s  
95th percentile per-packet one-way delay: 111.512 ms  
Loss rate: 0.06%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-17 04:41:55

End at: 2018-01-17 04:42:25

Local clock offset: 0.791 ms

Remote clock offset: 3.325 ms

# Below is generated by plot.py at 2018-01-17 07:24:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.19 Mbit/s

95th percentile per-packet one-way delay: 108.028 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 77.44 Mbit/s

95th percentile per-packet one-way delay: 108.095 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.17 Mbit/s

95th percentile per-packet one-way delay: 107.753 ms

Loss rate: 0.00%

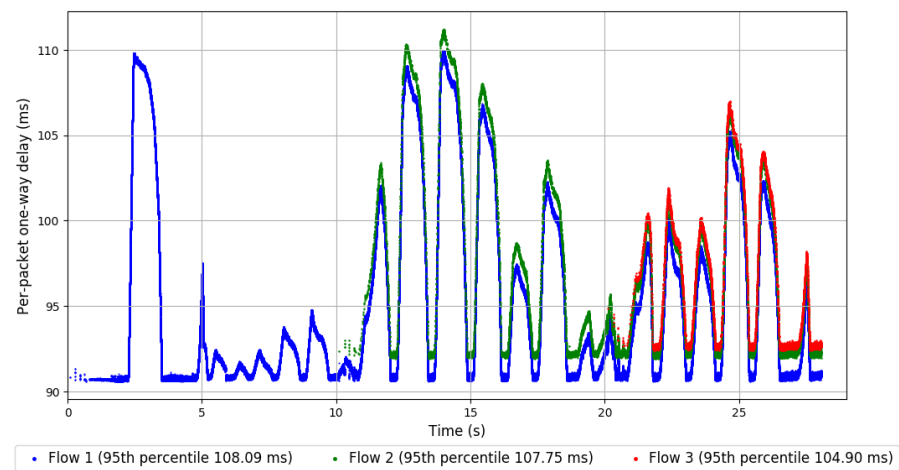
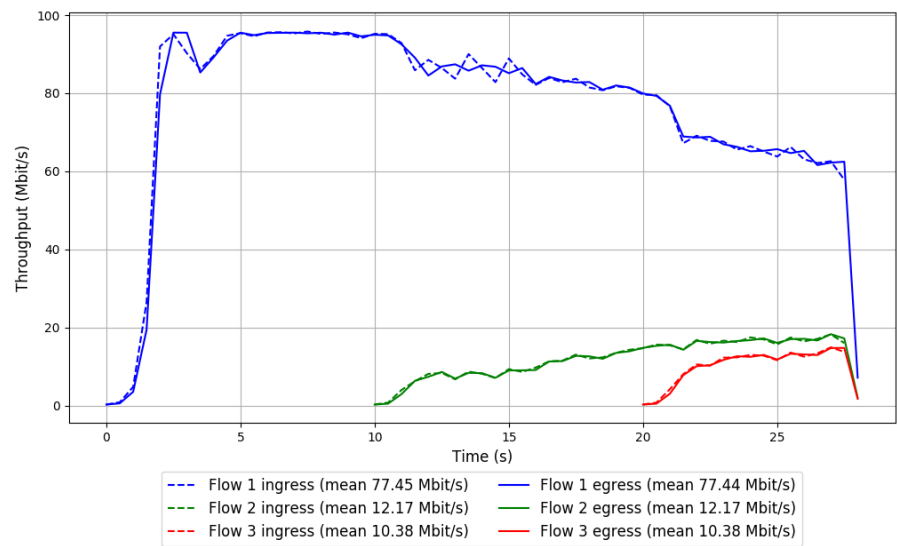
-- Flow 3:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 104.899 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



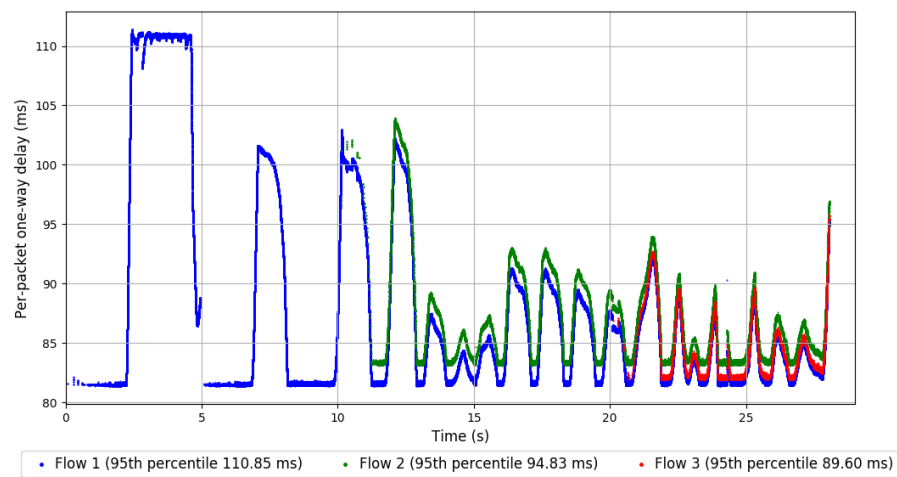
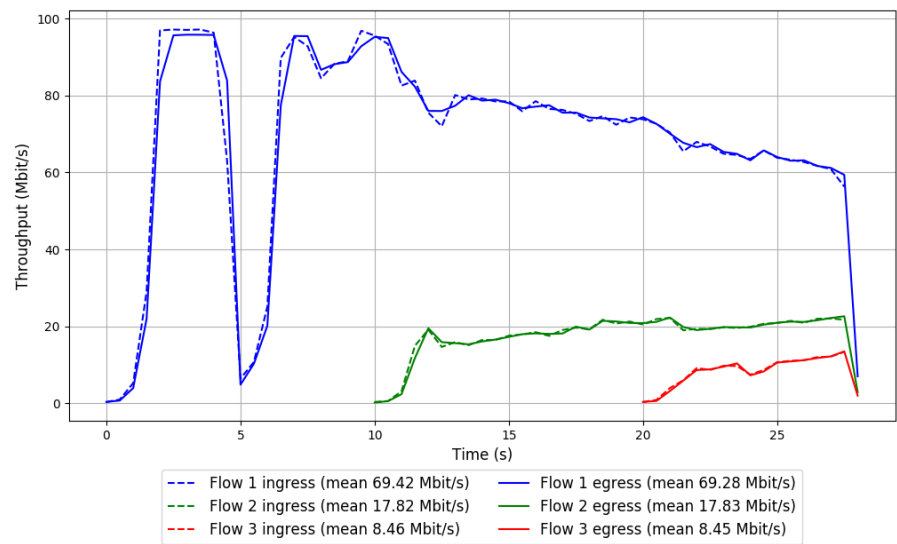
Run 6: Statistics of Copa

Start at: 2018-01-17 05:05:19  
End at: 2018-01-17 05:05:49  
Local clock offset: 0.659 ms  
Remote clock offset: -5.356 ms

```
# Below is generated by plot.py at 2018-01-17 07:24:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.12 Mbit/s
95th percentile per-packet one-way delay: 110.808 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 69.28 Mbit/s
95th percentile per-packet one-way delay: 110.848 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 17.83 Mbit/s
95th percentile per-packet one-way delay: 94.825 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 89.598 ms
Loss rate: 0.00%
```



Run 6: Report of Copa — Data Link

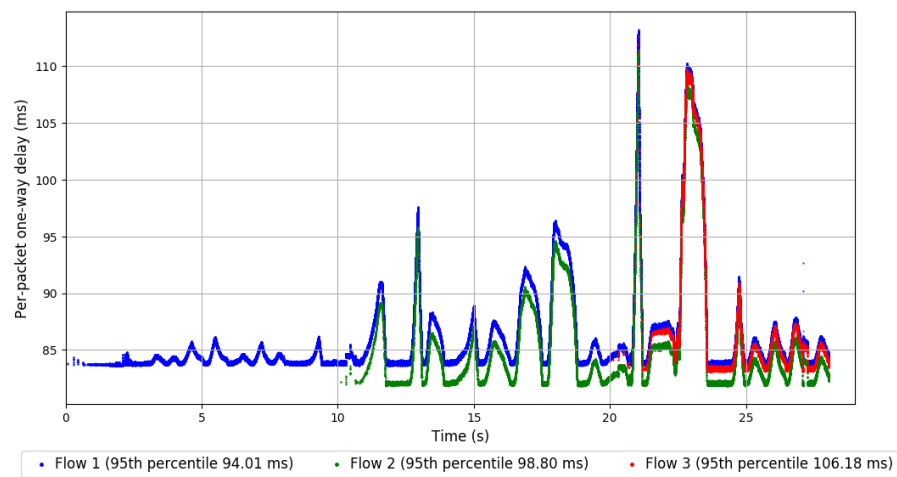
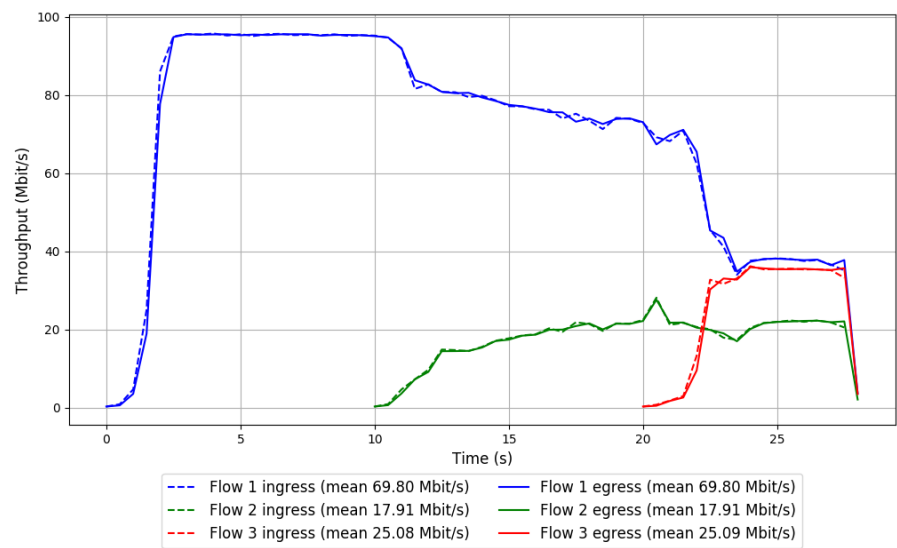


Run 7: Statistics of Copa

Start at: 2018-01-17 05:28:40  
End at: 2018-01-17 05:29:10  
Local clock offset: 0.632 ms  
Remote clock offset: -5.924 ms

```
# Below is generated by plot.py at 2018-01-17 07:24:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.42 Mbit/s
95th percentile per-packet one-way delay: 94.859 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 69.80 Mbit/s
95th percentile per-packet one-way delay: 94.014 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 17.91 Mbit/s
95th percentile per-packet one-way delay: 98.802 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 106.179 ms
Loss rate: 0.01%
```

Run 7: Report of Copa — Data Link

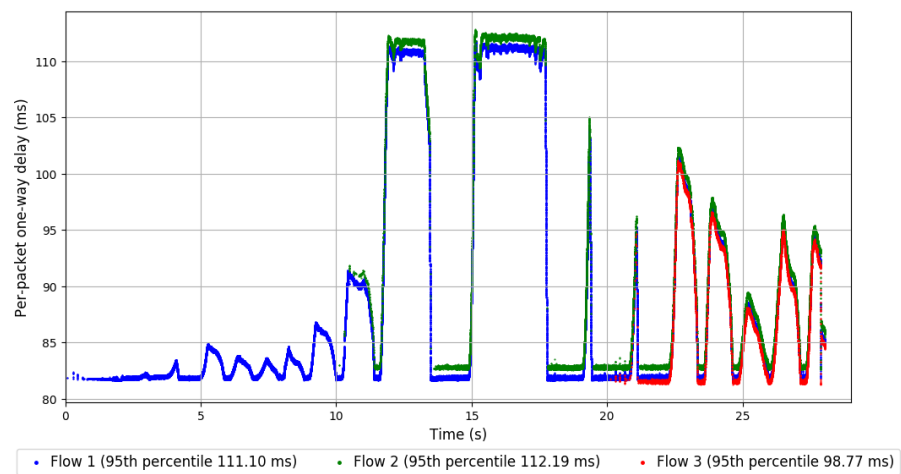
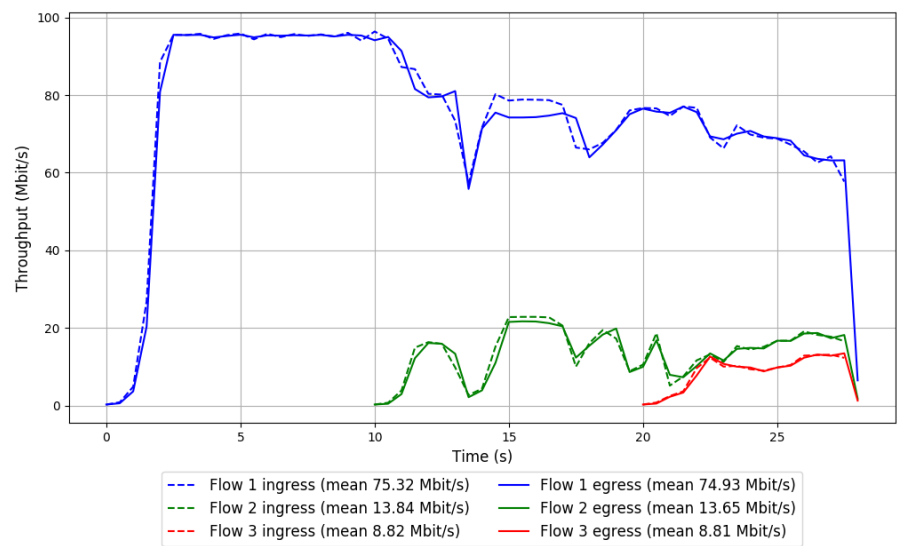


Run 8: Statistics of Copa

Start at: 2018-01-17 05:52:02  
End at: 2018-01-17 05:52:32  
Local clock offset: 0.671 ms  
Remote clock offset: -5.495 ms

```
# Below is generated by plot.py at 2018-01-17 07:24:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.19 Mbit/s
95th percentile per-packet one-way delay: 111.217 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 74.93 Mbit/s
95th percentile per-packet one-way delay: 111.103 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 13.65 Mbit/s
95th percentile per-packet one-way delay: 112.187 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 98.768 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link

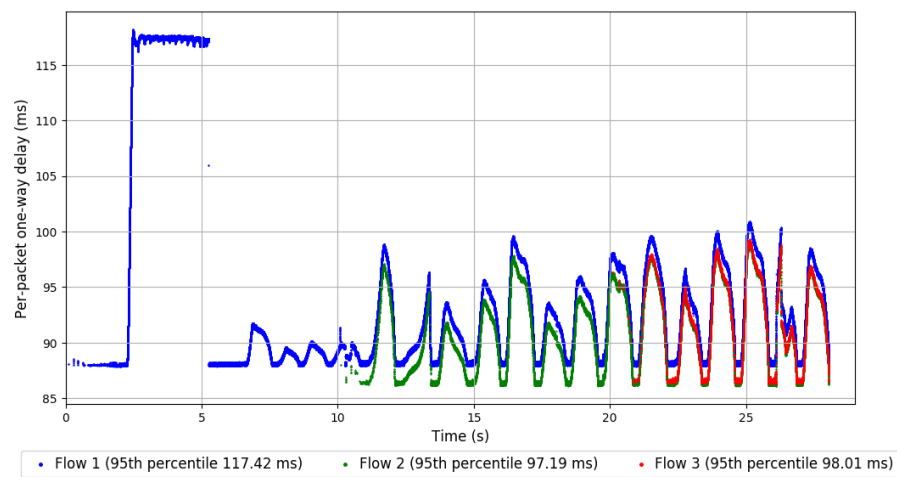
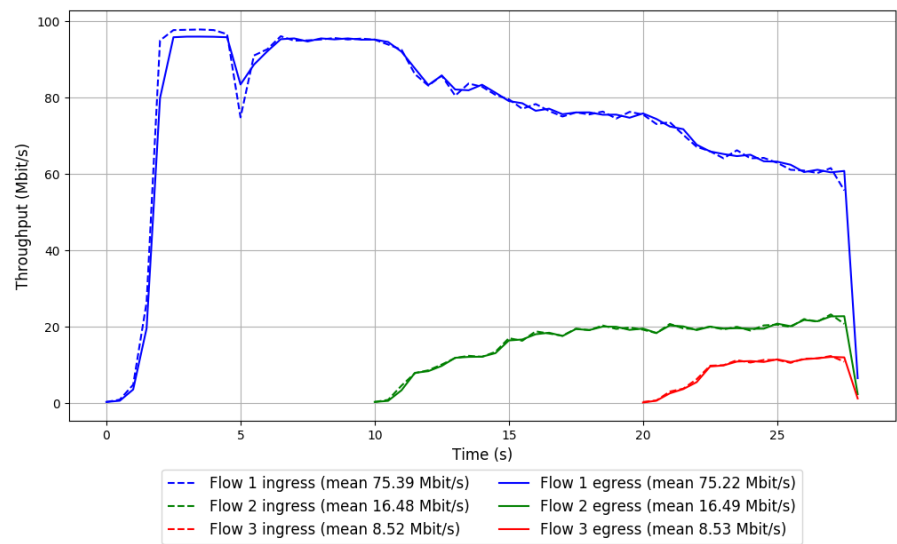


Run 9: Statistics of Copa

Start at: 2018-01-17 06:15:32  
End at: 2018-01-17 06:16:02  
Local clock offset: 0.718 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-01-17 07:24:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.23 Mbit/s  
95th percentile per-packet one-way delay: 117.394 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 75.22 Mbit/s  
95th percentile per-packet one-way delay: 117.419 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 16.49 Mbit/s  
95th percentile per-packet one-way delay: 97.185 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 98.011 ms  
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-17 06:38:52

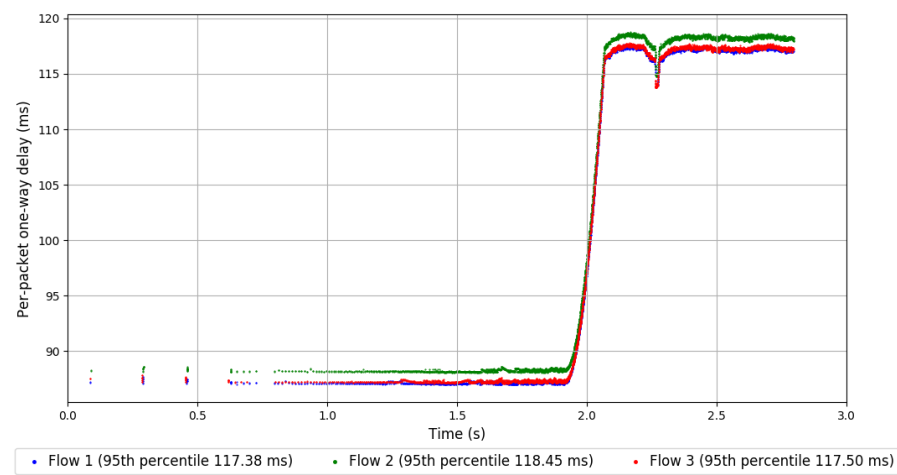
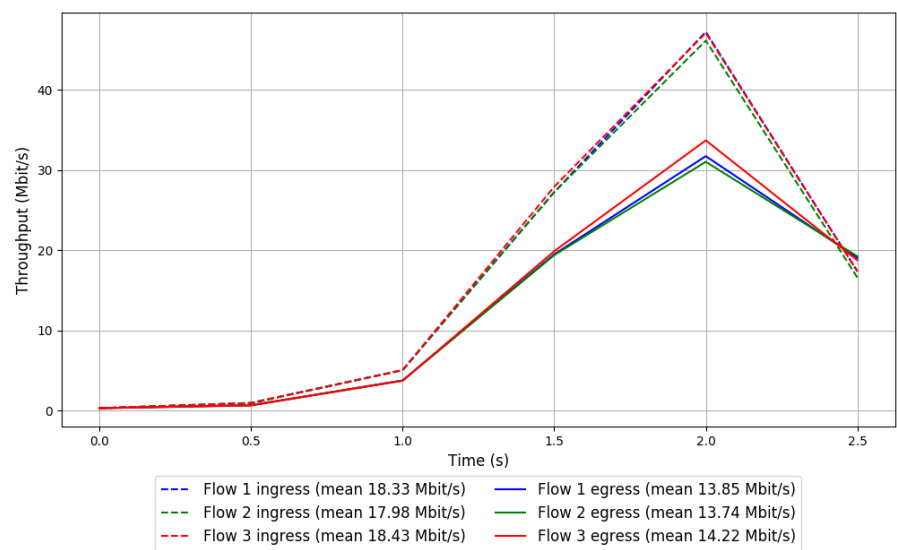
End at: 2018-01-17 06:39:22

Local clock offset: 0.546 ms

Remote clock offset: 0.747 ms



Run 10: Report of Copa — Data Link

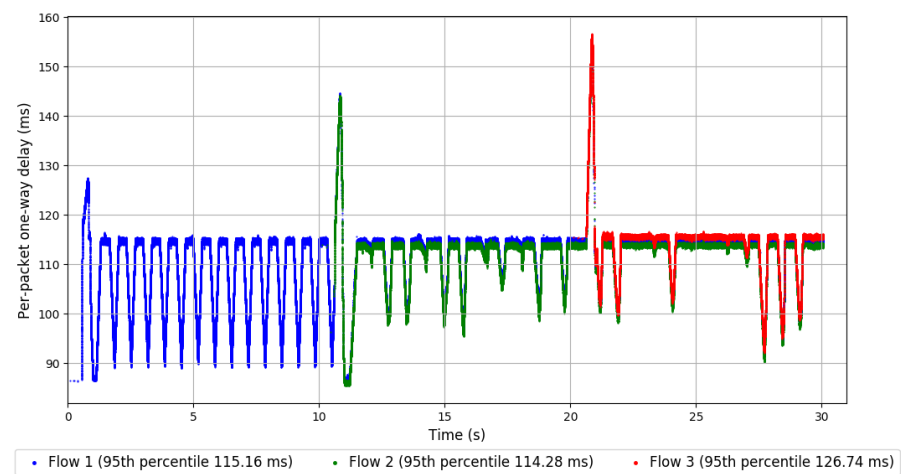
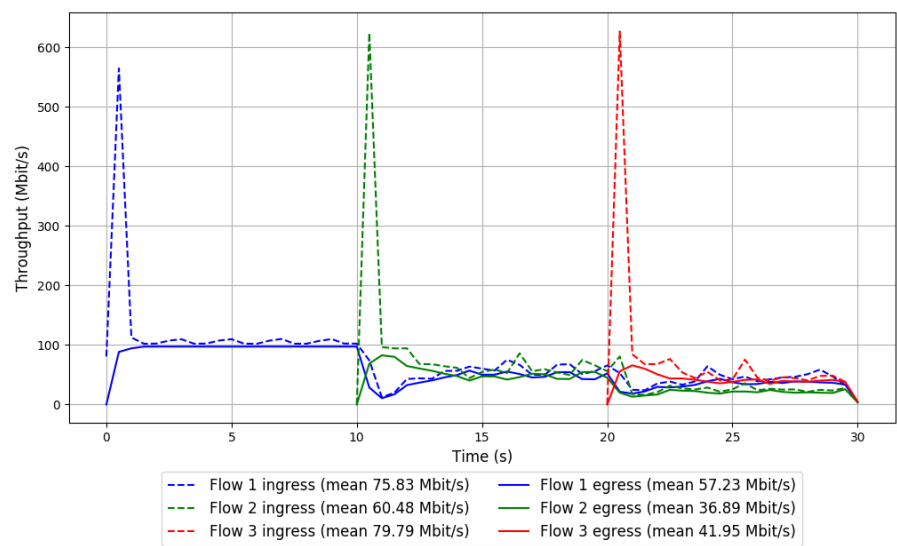


Run 1: Statistics of FillP

Start at: 2018-01-17 02:57:14  
End at: 2018-01-17 02:57:44  
Local clock offset: 1.032 ms  
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-01-17 07:24:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.65 Mbit/s  
95th percentile per-packet one-way delay: 115.802 ms  
Loss rate: 32.83%  
-- Flow 1:  
Average throughput: 57.23 Mbit/s  
95th percentile per-packet one-way delay: 115.155 ms  
Loss rate: 24.46%  
-- Flow 2:  
Average throughput: 36.89 Mbit/s  
95th percentile per-packet one-way delay: 114.277 ms  
Loss rate: 39.01%  
-- Flow 3:  
Average throughput: 41.95 Mbit/s  
95th percentile per-packet one-way delay: 126.743 ms  
Loss rate: 47.42%

Run 1: Report of FillP — Data Link

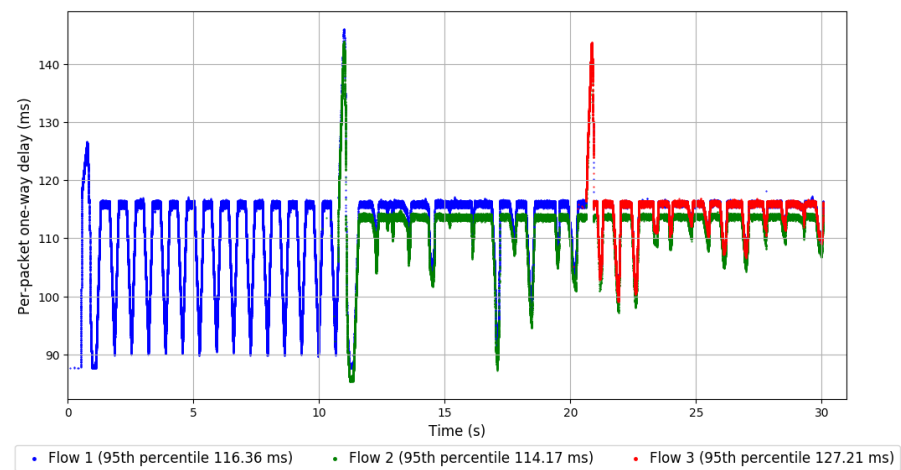
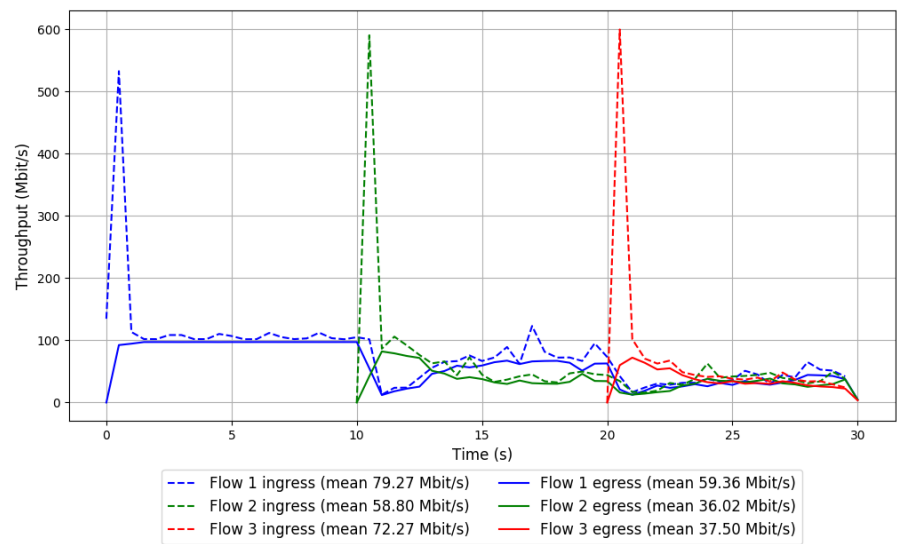


Run 2: Statistics of FillP

Start at: 2018-01-17 03:20:26  
End at: 2018-01-17 03:20:56  
Local clock offset: 1.064 ms  
Remote clock offset: -0.705 ms

# Below is generated by plot.py at 2018-01-17 07:24:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 116.375 ms  
Loss rate: 32.69%  
-- Flow 1:  
Average throughput: 59.36 Mbit/s  
95th percentile per-packet one-way delay: 116.359 ms  
Loss rate: 25.05%  
-- Flow 2:  
Average throughput: 36.02 Mbit/s  
95th percentile per-packet one-way delay: 114.166 ms  
Loss rate: 38.74%  
-- Flow 3:  
Average throughput: 37.50 Mbit/s  
95th percentile per-packet one-way delay: 127.211 ms  
Loss rate: 48.05%

Run 2: Report of FillP — Data Link

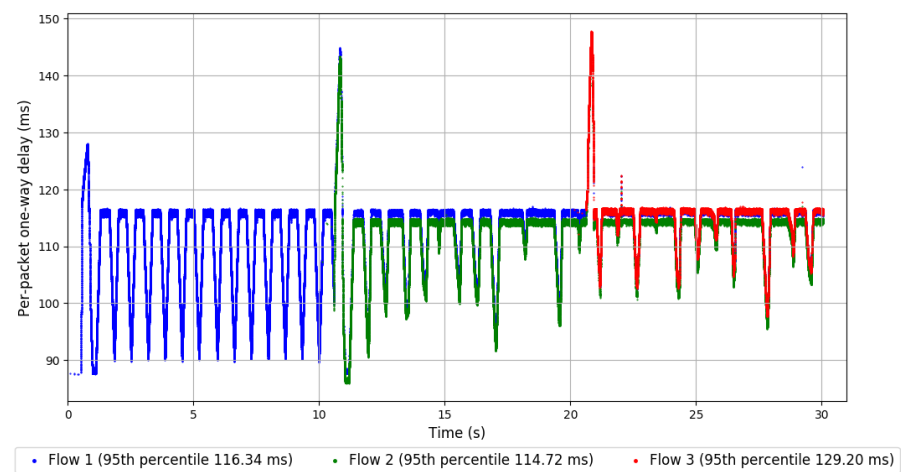
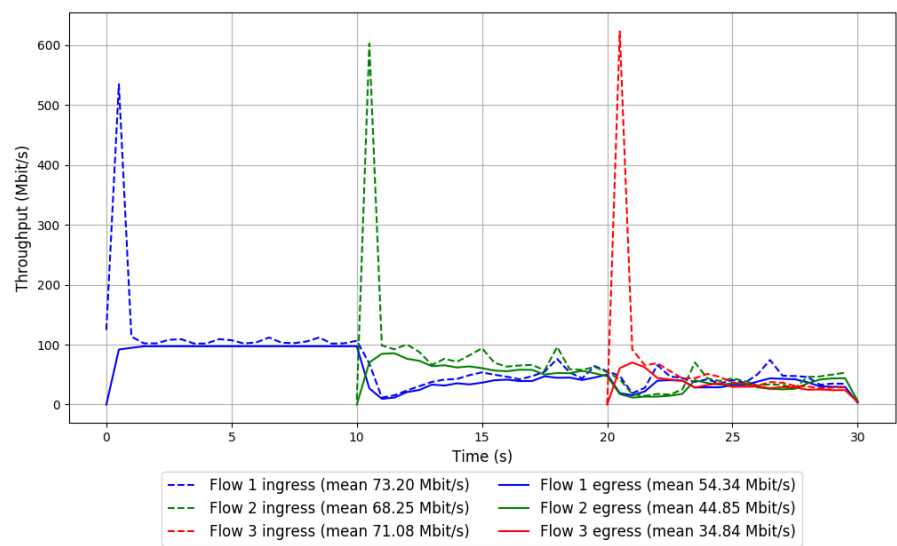


Run 3: Statistics of FillP

Start at: 2018-01-17 03:43:42  
End at: 2018-01-17 03:44:12  
Local clock offset: 0.952 ms  
Remote clock offset: -1.266 ms

# Below is generated by plot.py at 2018-01-17 07:25:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.73 Mbit/s  
95th percentile per-packet one-way delay: 116.450 ms  
Loss rate: 32.62%  
-- Flow 1:  
Average throughput: 54.34 Mbit/s  
95th percentile per-packet one-way delay: 116.343 ms  
Loss rate: 25.69%  
-- Flow 2:  
Average throughput: 44.85 Mbit/s  
95th percentile per-packet one-way delay: 114.720 ms  
Loss rate: 34.26%  
-- Flow 3:  
Average throughput: 34.84 Mbit/s  
95th percentile per-packet one-way delay: 129.197 ms  
Loss rate: 50.98%

Run 3: Report of FillP — Data Link



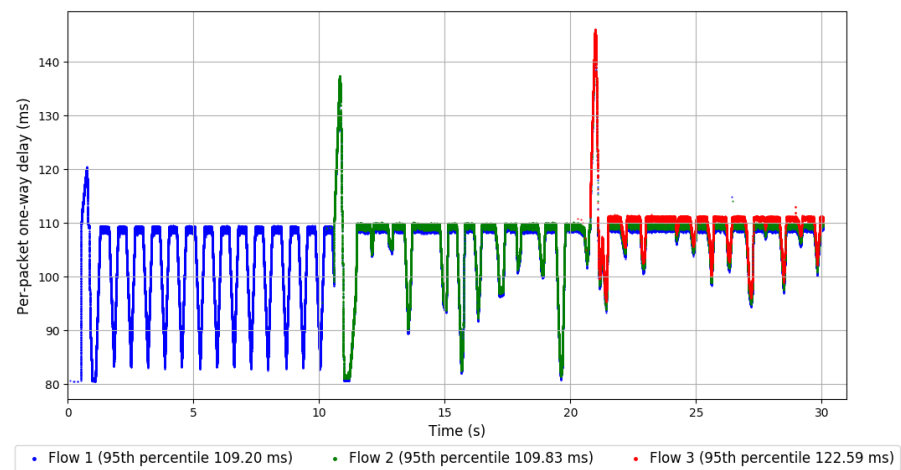
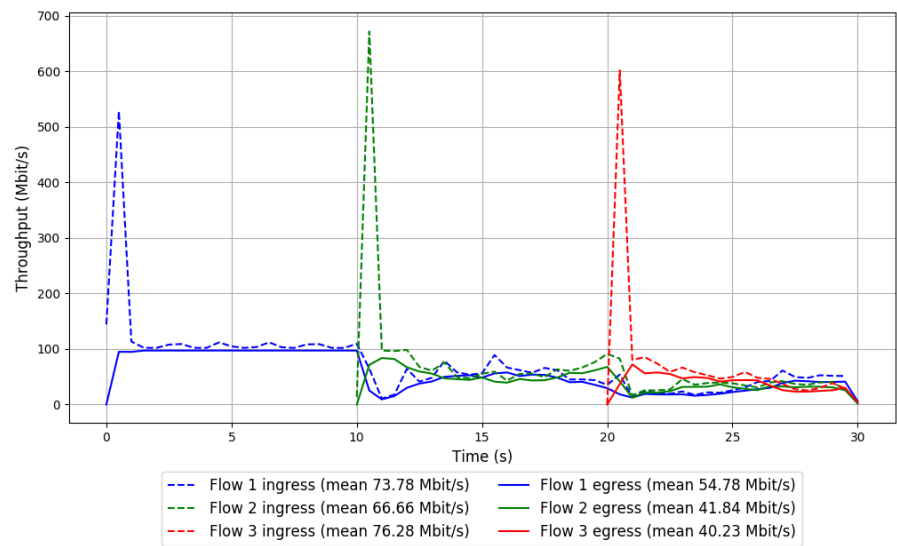
Run 4: Statistics of FillP

Start at: 2018-01-17 04:06:54  
End at: 2018-01-17 04:07:24  
Local clock offset: 0.884 ms  
Remote clock offset: -6.331 ms

# Below is generated by plot.py at 2018-01-17 07:25:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.74 Mbit/s  
95th percentile per-packet one-way delay: 110.959 ms  
Loss rate: 33.18%  
-- Flow 1:  
Average throughput: 54.78 Mbit/s  
95th percentile per-packet one-way delay: 109.203 ms  
Loss rate: 25.68%  
-- Flow 2:  
Average throughput: 41.84 Mbit/s  
95th percentile per-packet one-way delay: 109.833 ms  
Loss rate: 37.18%  
-- Flow 3:  
Average throughput: 40.23 Mbit/s  
95th percentile per-packet one-way delay: 122.592 ms  
Loss rate: 48.06%



Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-17 04:30:18

End at: 2018-01-17 04:30:48

Local clock offset: 0.824 ms

Remote clock offset: 4.485 ms

# Below is generated by plot.py at 2018-01-17 07:25:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 121.912 ms

Loss rate: 32.70%

-- Flow 1:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 120.148 ms

Loss rate: 26.69%

-- Flow 2:

Average throughput: 43.70 Mbit/s

95th percentile per-packet one-way delay: 120.078 ms

Loss rate: 34.55%

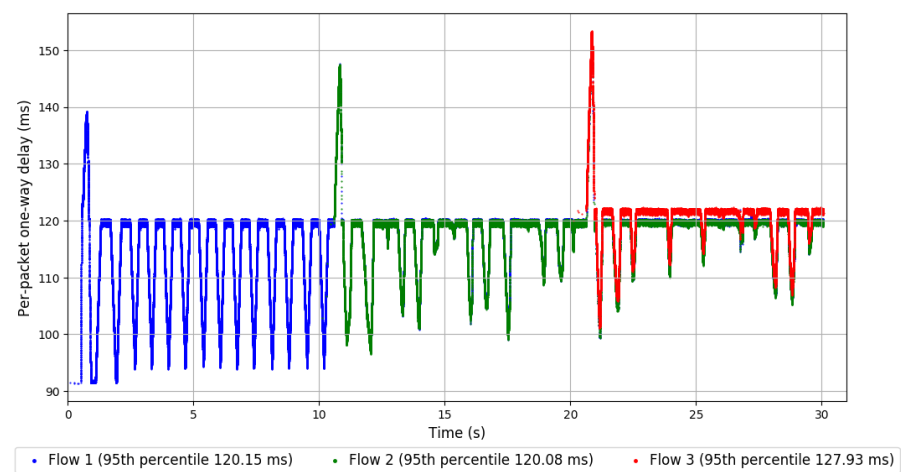
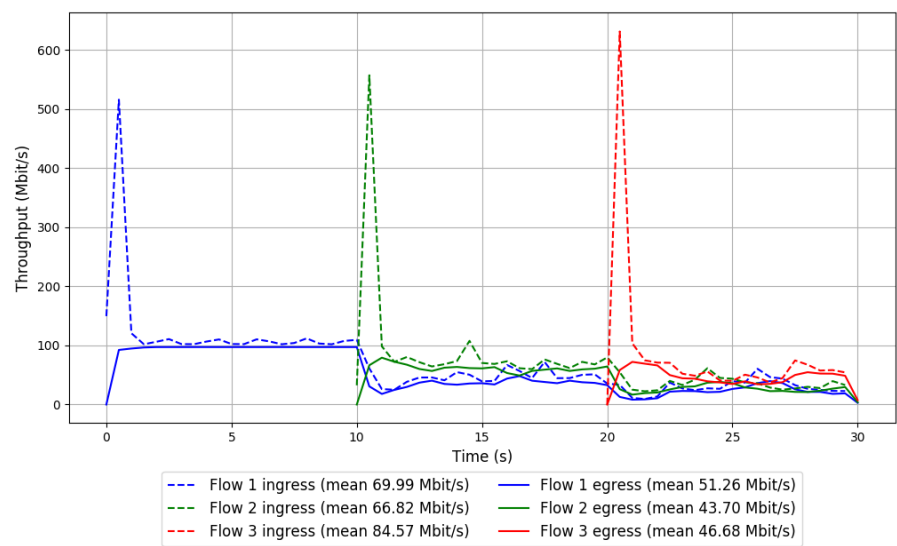
-- Flow 3:

Average throughput: 46.68 Mbit/s

95th percentile per-packet one-way delay: 127.932 ms

Loss rate: 44.79%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-17 04:53:42

End at: 2018-01-17 04:54:12

Local clock offset: 0.734 ms

Remote clock offset: 3.428 ms

# Below is generated by plot.py at 2018-01-17 07:26:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.81 Mbit/s

95th percentile per-packet one-way delay: 120.865 ms

Loss rate: 33.07%

-- Flow 1:

Average throughput: 55.62 Mbit/s

95th percentile per-packet one-way delay: 119.665 ms

Loss rate: 25.31%

-- Flow 2:

Average throughput: 29.89 Mbit/s

95th percentile per-packet one-way delay: 121.056 ms

Loss rate: 42.87%

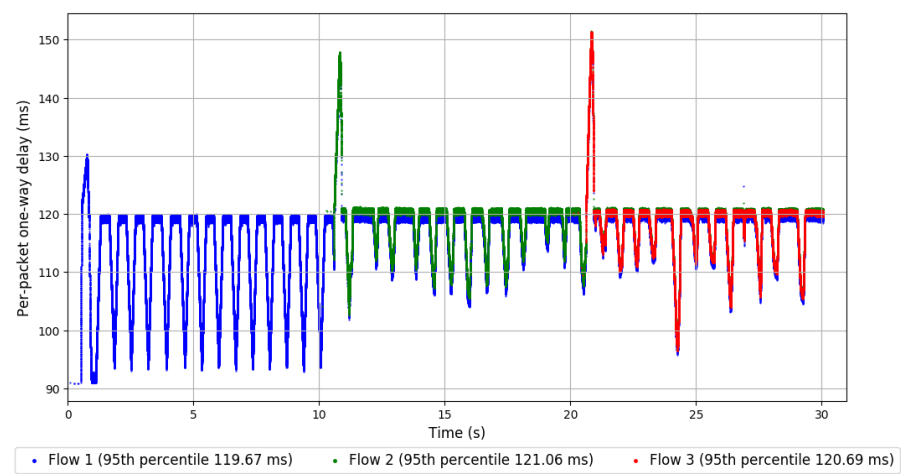
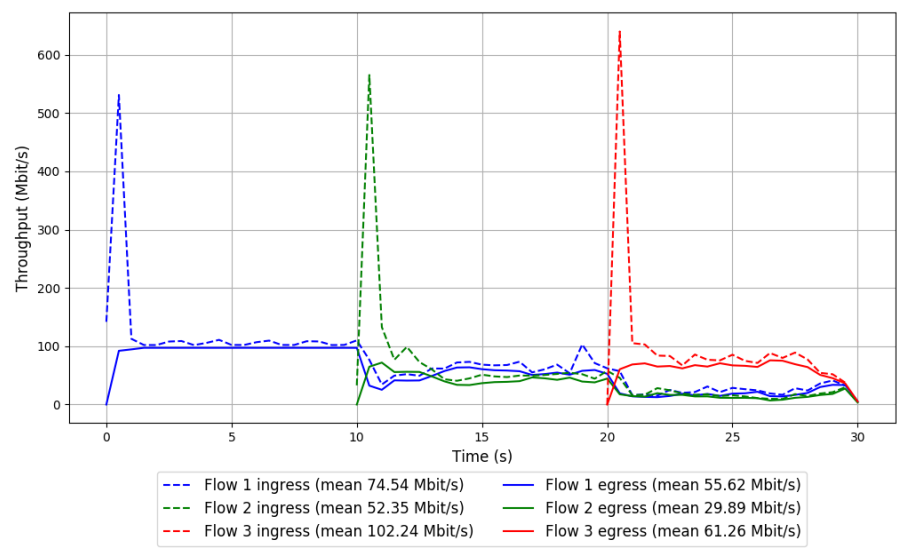
-- Flow 3:

Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 120.692 ms

Loss rate: 40.08%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-17 05:17:00

End at: 2018-01-17 05:17:30

Local clock offset: 0.732 ms

Remote clock offset: 0.617 ms

# Below is generated by plot.py at 2018-01-17 07:26:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.78 Mbit/s

95th percentile per-packet one-way delay: 116.665 ms

Loss rate: 32.75%

-- Flow 1:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 116.688 ms

Loss rate: 26.36%

-- Flow 2:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 116.527 ms

Loss rate: 34.91%

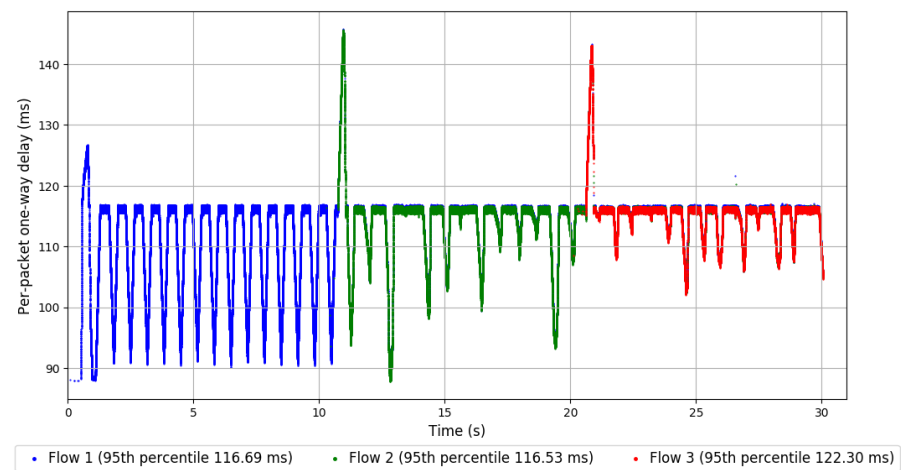
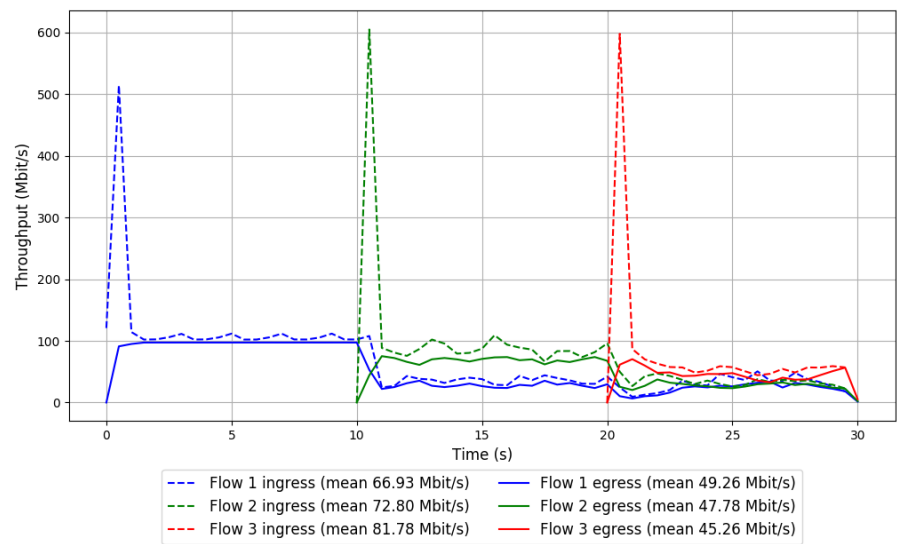
-- Flow 3:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 122.302 ms

Loss rate: 44.67%

Run 7: Report of FillP — Data Link



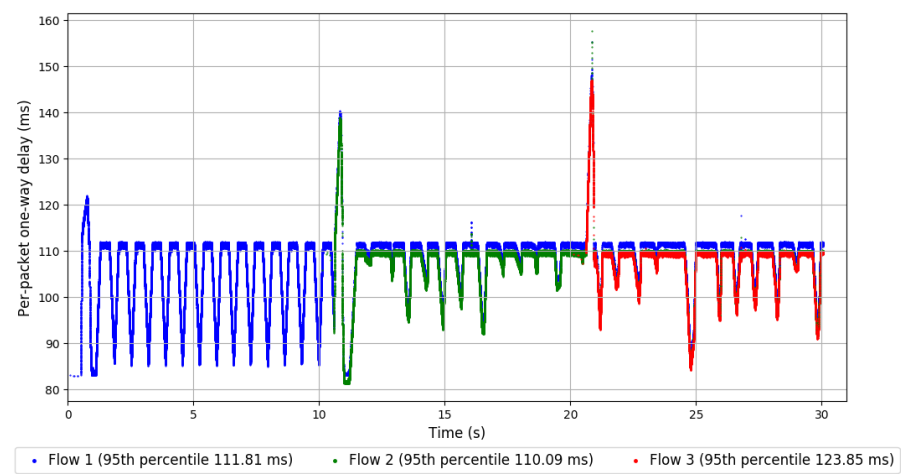
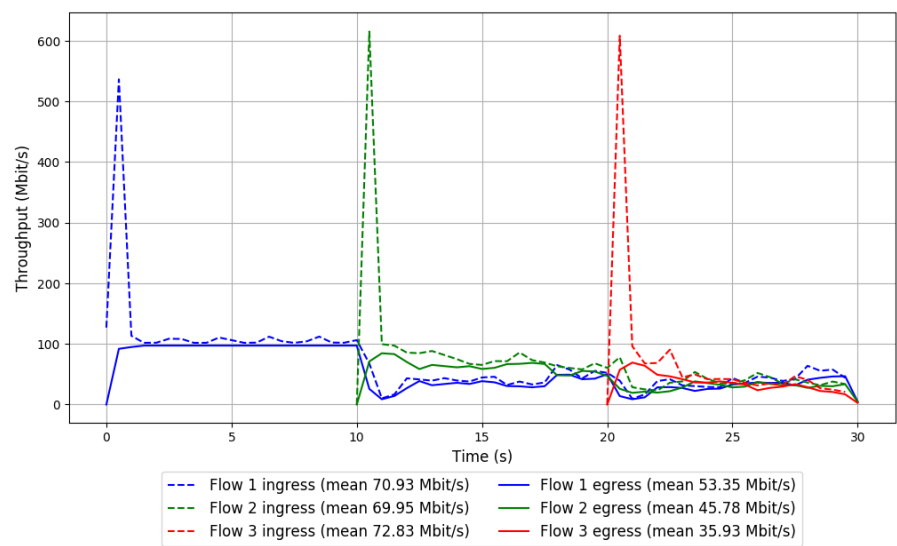
Run 8: Statistics of FillP

Start at: 2018-01-17 05:40:24  
End at: 2018-01-17 05:40:54  
Local clock offset: 0.666 ms  
Remote clock offset: -5.585 ms

# Below is generated by plot.py at 2018-01-17 07:26:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.70 Mbit/s  
95th percentile per-packet one-way delay: 111.799 ms  
Loss rate: 32.37%  
-- Flow 1:  
Average throughput: 53.35 Mbit/s  
95th percentile per-packet one-way delay: 111.814 ms  
Loss rate: 24.72%  
-- Flow 2:  
Average throughput: 45.78 Mbit/s  
95th percentile per-packet one-way delay: 110.091 ms  
Loss rate: 34.54%  
-- Flow 3:  
Average throughput: 35.93 Mbit/s  
95th percentile per-packet one-way delay: 123.848 ms  
Loss rate: 50.66%



Run 8: Report of FillP — Data Link

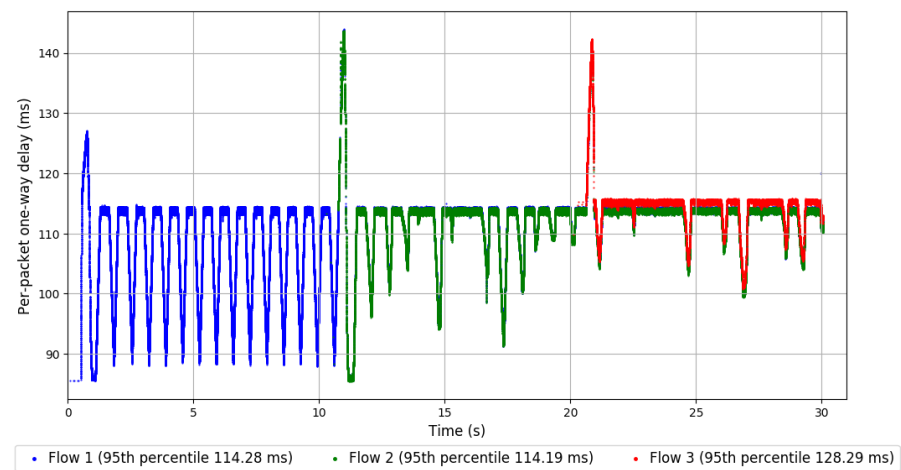
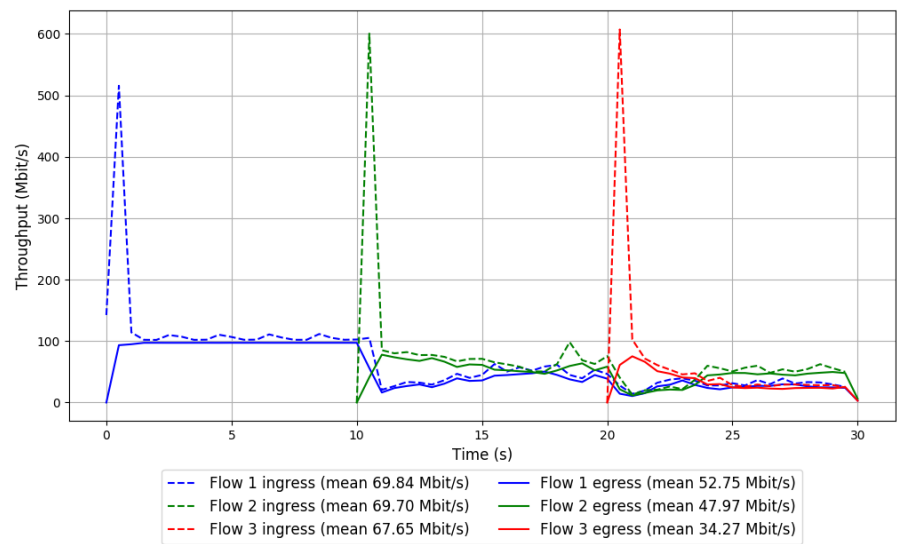


Run 9: Statistics of FillP

Start at: 2018-01-17 06:03:44  
End at: 2018-01-17 06:04:14  
Local clock offset: 0.628 ms  
Remote clock offset: -1.305 ms

# Below is generated by plot.py at 2018-01-17 07:26:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.76 Mbit/s  
95th percentile per-packet one-way delay: 115.450 ms  
Loss rate: 30.88%  
-- Flow 1:  
Average throughput: 52.75 Mbit/s  
95th percentile per-packet one-way delay: 114.281 ms  
Loss rate: 24.41%  
-- Flow 2:  
Average throughput: 47.97 Mbit/s  
95th percentile per-packet one-way delay: 114.186 ms  
Loss rate: 31.71%  
-- Flow 3:  
Average throughput: 34.27 Mbit/s  
95th percentile per-packet one-way delay: 128.288 ms  
Loss rate: 49.33%

Run 9: Report of FillP — Data Link

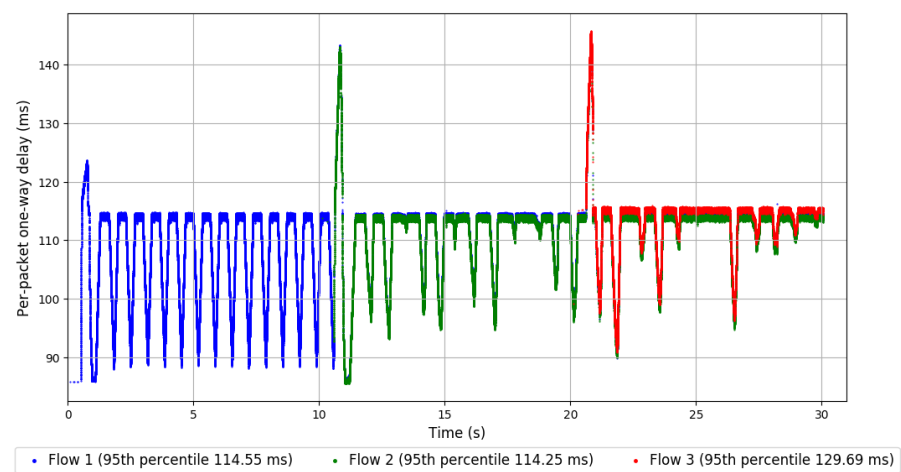
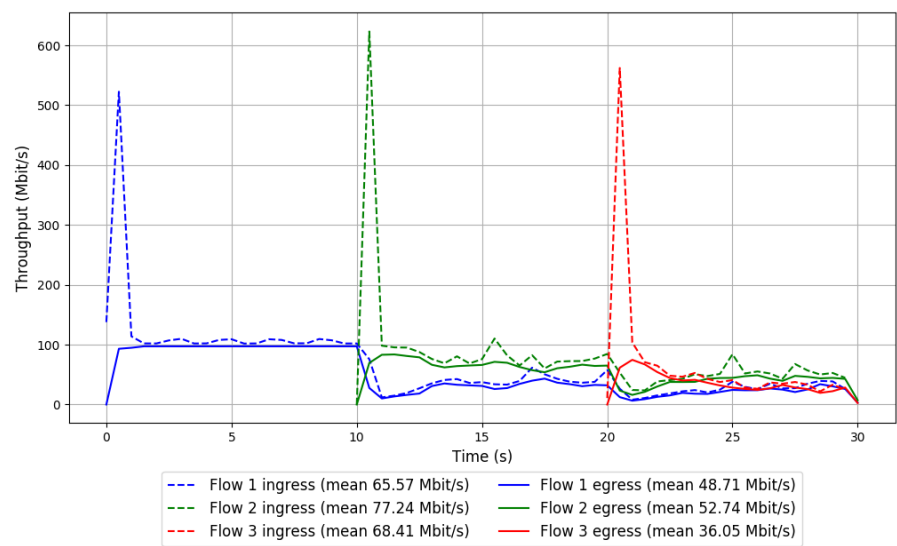


Run 10: Statistics of FillP

Start at: 2018-01-17 06:27:13  
End at: 2018-01-17 06:27:43  
Local clock offset: 0.709 ms  
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2018-01-17 07:26:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 115.378 ms  
Loss rate: 31.38%  
-- Flow 1:  
Average throughput: 48.71 Mbit/s  
95th percentile per-packet one-way delay: 114.546 ms  
Loss rate: 25.65%  
-- Flow 2:  
Average throughput: 52.74 Mbit/s  
95th percentile per-packet one-way delay: 114.246 ms  
Loss rate: 31.71%  
-- Flow 3:  
Average throughput: 36.05 Mbit/s  
95th percentile per-packet one-way delay: 129.692 ms  
Loss rate: 47.22%

Run 10: Report of FillP — Data Link

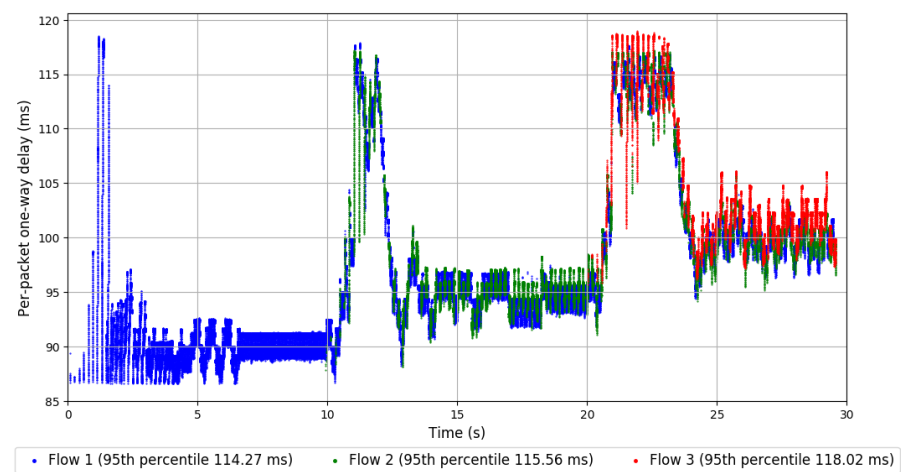
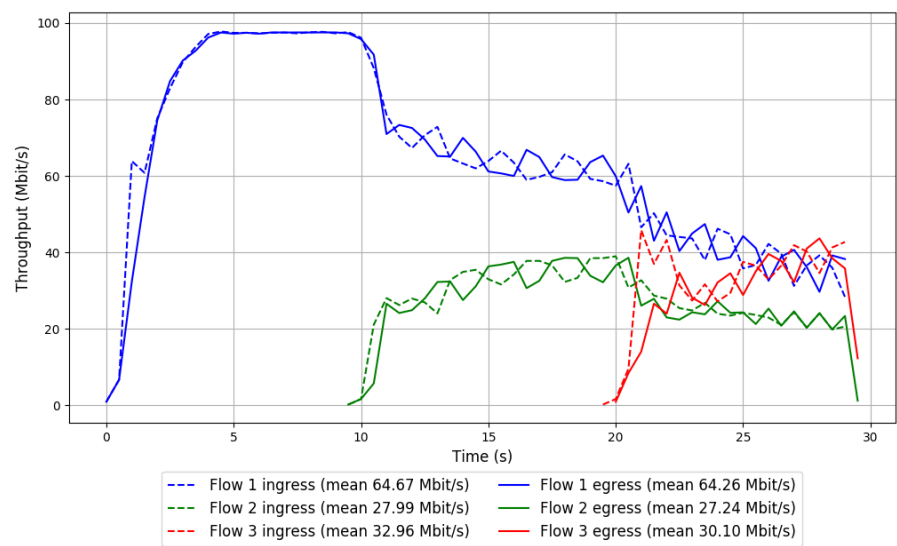


Run 1: Statistics of Indigo

Start at: 2018-01-17 02:53:19  
End at: 2018-01-17 02:53:49  
Local clock offset: 1.005 ms  
Remote clock offset: -0.916 ms

# Below is generated by plot.py at 2018-01-17 07:27:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.95 Mbit/s  
95th percentile per-packet one-way delay: 115.037 ms  
Loss rate: 1.92%  
-- Flow 1:  
Average throughput: 64.26 Mbit/s  
95th percentile per-packet one-way delay: 114.272 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 27.24 Mbit/s  
95th percentile per-packet one-way delay: 115.561 ms  
Loss rate: 2.64%  
-- Flow 3:  
Average throughput: 30.10 Mbit/s  
95th percentile per-packet one-way delay: 118.019 ms  
Loss rate: 8.64%

Run 1: Report of Indigo — Data Link



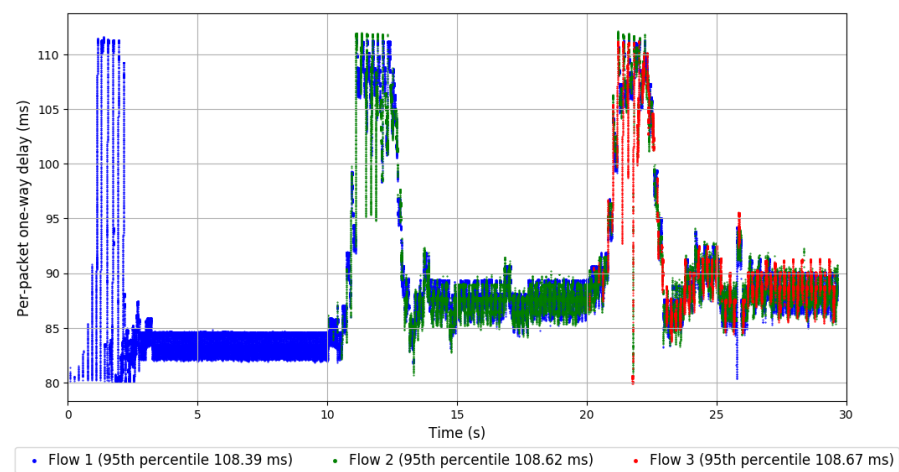
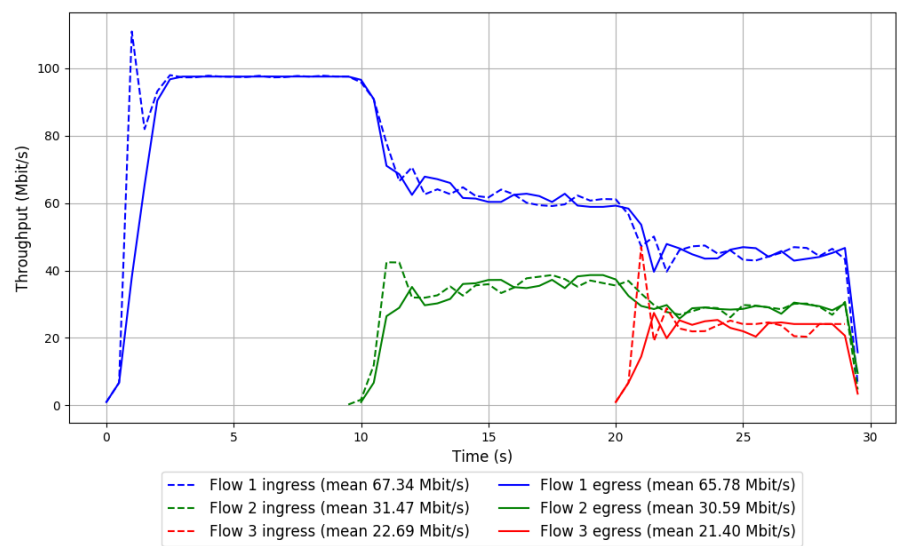
Run 2: Statistics of Indigo

Start at: 2018-01-17 03:16:32  
End at: 2018-01-17 03:17:02  
Local clock offset: 1.085 ms  
Remote clock offset: -6.371 ms

# Below is generated by plot.py at 2018-01-17 07:27:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.88 Mbit/s  
95th percentile per-packet one-way delay: 108.476 ms  
Loss rate: 2.66%  
-- Flow 1:  
Average throughput: 65.78 Mbit/s  
95th percentile per-packet one-way delay: 108.391 ms  
Loss rate: 2.30%  
-- Flow 2:  
Average throughput: 30.59 Mbit/s  
95th percentile per-packet one-way delay: 108.620 ms  
Loss rate: 2.79%  
-- Flow 3:  
Average throughput: 21.40 Mbit/s  
95th percentile per-packet one-way delay: 108.665 ms  
Loss rate: 5.66%



Run 2: Report of Indigo — Data Link

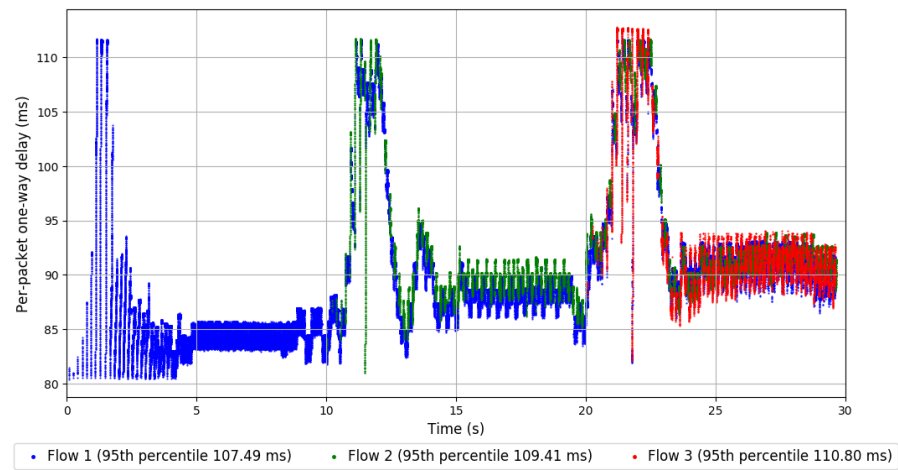
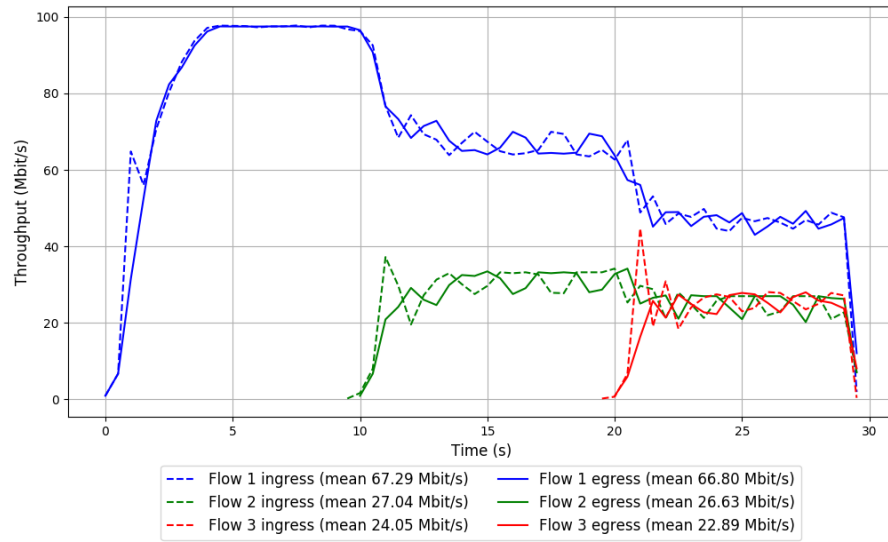


Run 3: Statistics of Indigo

Start at: 2018-01-17 03:39:49  
End at: 2018-01-17 03:40:19  
Local clock offset: 0.968 ms  
Remote clock offset: -6.842 ms

# Below is generated by plot.py at 2018-01-17 07:27:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.76 Mbit/s  
95th percentile per-packet one-way delay: 108.547 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 66.80 Mbit/s  
95th percentile per-packet one-way delay: 107.491 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 26.63 Mbit/s  
95th percentile per-packet one-way delay: 109.409 ms  
Loss rate: 1.48%  
-- Flow 3:  
Average throughput: 22.89 Mbit/s  
95th percentile per-packet one-way delay: 110.801 ms  
Loss rate: 4.82%

### Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-17 04:03:08

End at: 2018-01-17 04:03:38

Local clock offset: 0.844 ms

Remote clock offset: 0.072 ms

Run 4: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Indigo

Start at: 2018-01-17 04:26:24

End at: 2018-01-17 04:26:54

Local clock offset: 0.845 ms

Remote clock offset: 10.16 ms

# Below is generated by plot.py at 2018-01-17 07:27:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 128.561 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 63.80 Mbit/s

95th percentile per-packet one-way delay: 127.658 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 29.51 Mbit/s

95th percentile per-packet one-way delay: 129.509 ms

Loss rate: 2.57%

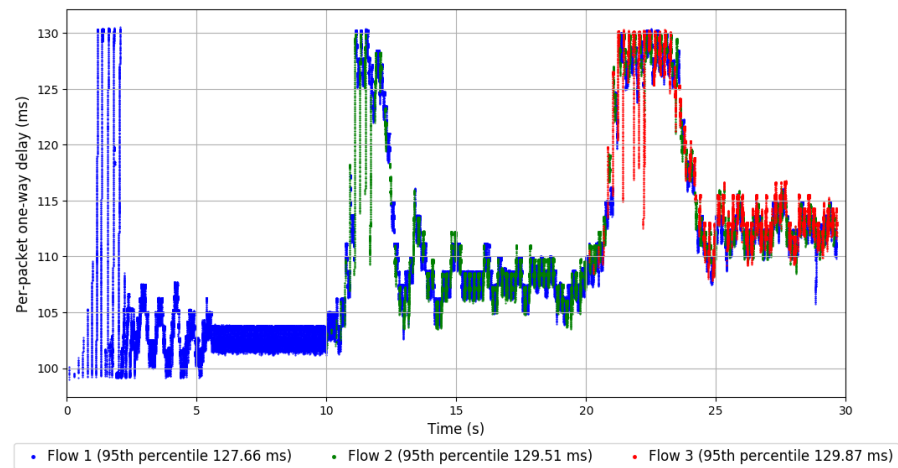
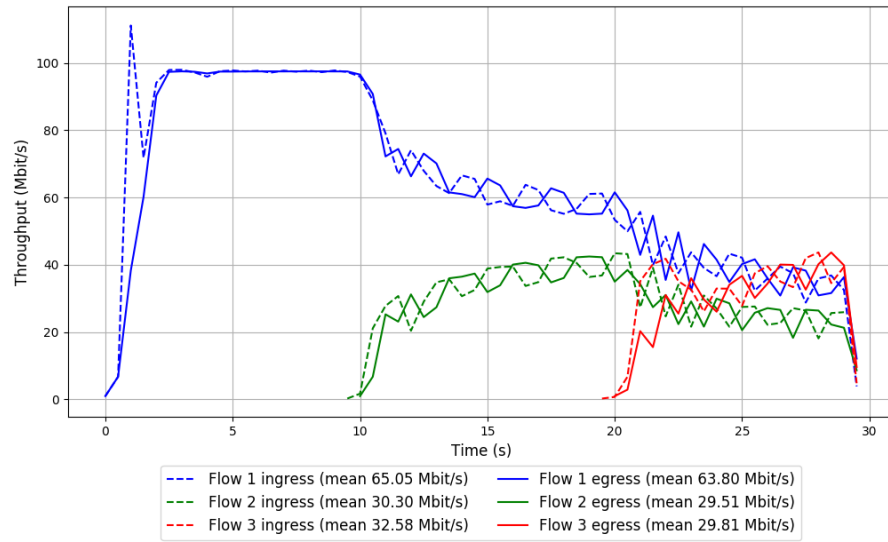
-- Flow 3:

Average throughput: 29.81 Mbit/s

95th percentile per-packet one-way delay: 129.868 ms

Loss rate: 8.50%

## Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-17 04:49:48

End at: 2018-01-17 04:50:18

Local clock offset: 0.735 ms

Remote clock offset: 8.222 ms

# Below is generated by plot.py at 2018-01-17 07:27:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 124.635 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 63.45 Mbit/s

95th percentile per-packet one-way delay: 123.715 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 28.81 Mbit/s

95th percentile per-packet one-way delay: 126.126 ms

Loss rate: 4.64%

-- Flow 3:

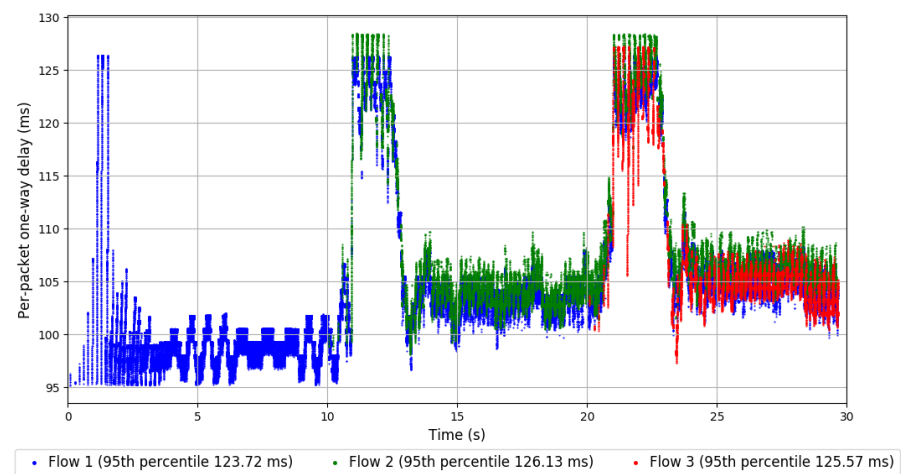
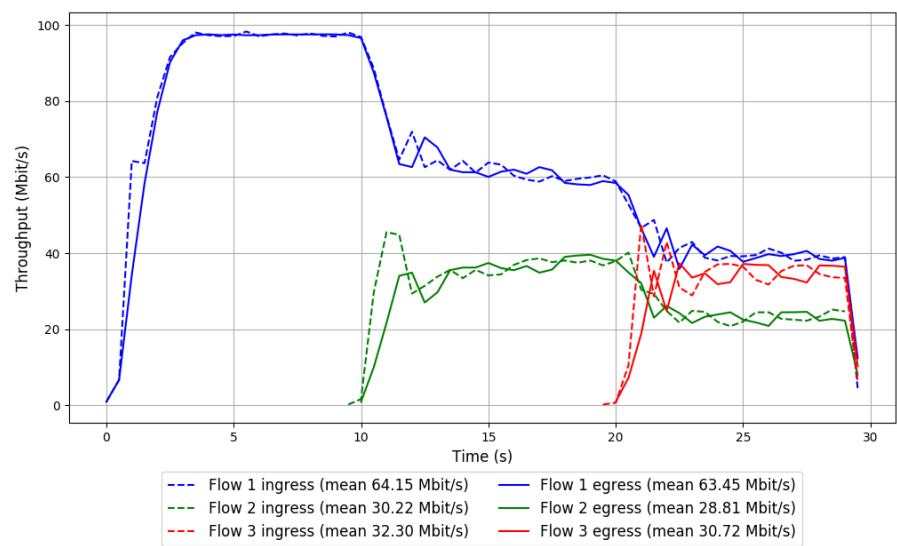
Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 125.566 ms

Loss rate: 4.92%



Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-17 05:13:14

End at: 2018-01-17 05:13:44

Local clock offset: 0.661 ms

Remote clock offset: 0.666 ms

Run 7: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Indigo

Start at: 2018-01-17 05:36:30

End at: 2018-01-17 05:37:00

Local clock offset: 0.601 ms

Remote clock offset: -6.59 ms

# Below is generated by plot.py at 2018-01-17 07:28:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.23 Mbit/s

95th percentile per-packet one-way delay: 107.111 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 67.77 Mbit/s

95th percentile per-packet one-way delay: 106.731 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 23.38 Mbit/s

95th percentile per-packet one-way delay: 109.178 ms

Loss rate: 2.99%

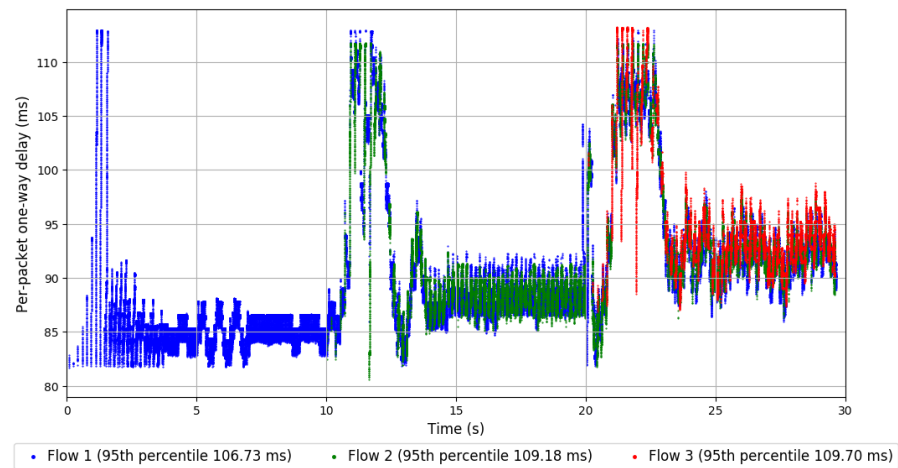
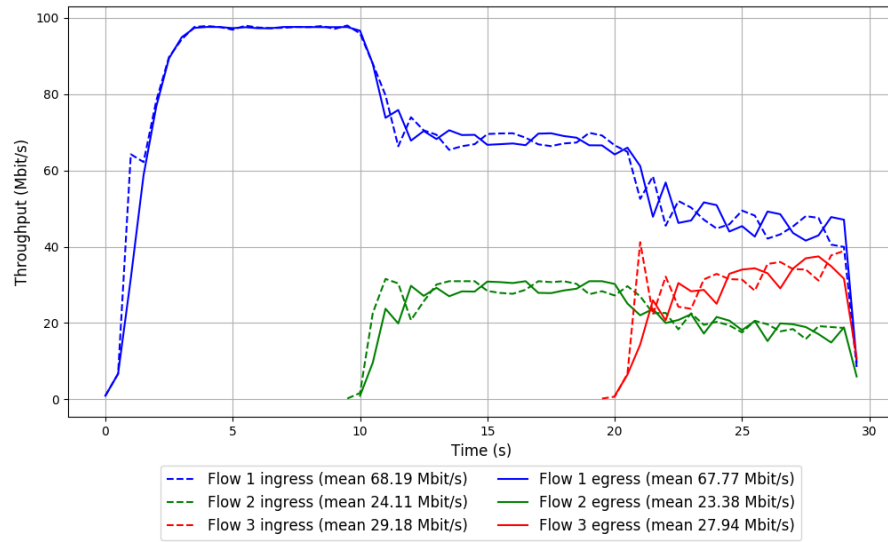
-- Flow 3:

Average throughput: 27.94 Mbit/s

95th percentile per-packet one-way delay: 109.703 ms

Loss rate: 4.32%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-17 05:59:57

End at: 2018-01-17 06:00:27

Local clock offset: 0.67 ms

Remote clock offset: -0.528 ms

Run 9: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Indigo

Start at: 2018-01-17 06:23:27

End at: 2018-01-17 06:23:57

Local clock offset: 0.713 ms

Remote clock offset: -5.573 ms



Run 10: Report of Indigo — Data Link

Figure is missing

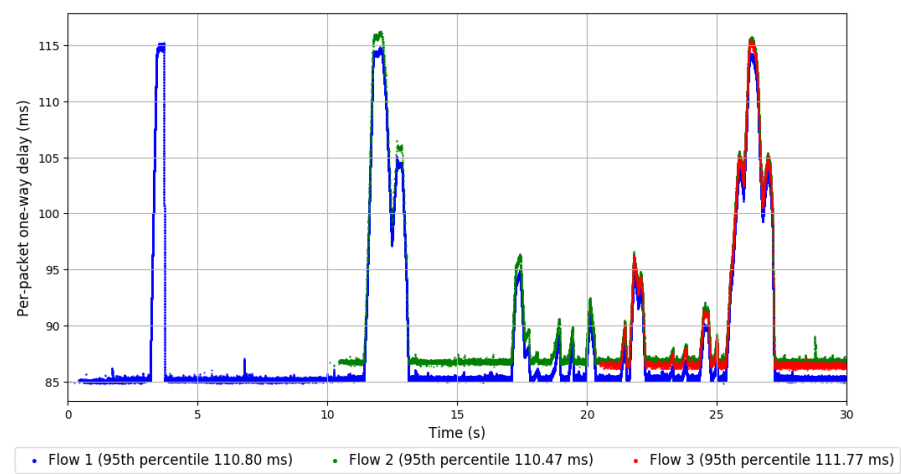
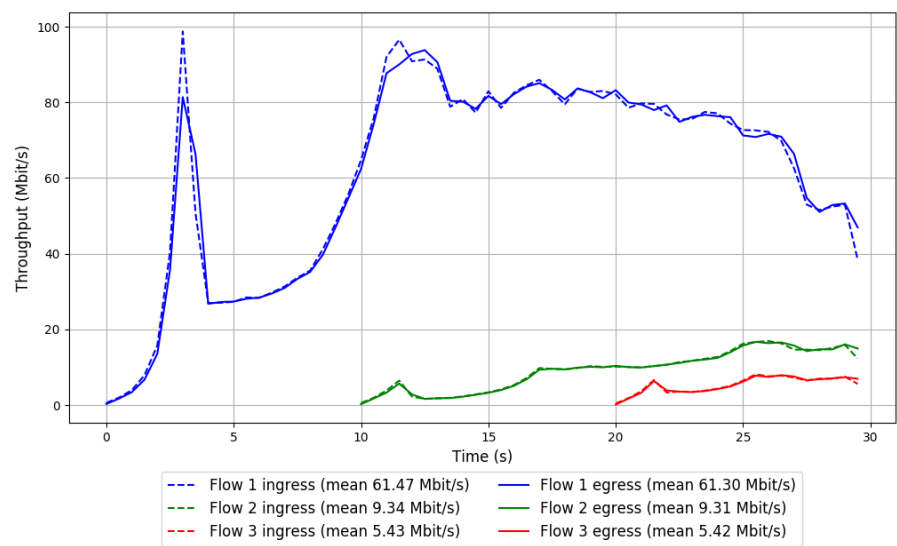
Figure is missing

Run 1: Statistics of Vivace-latency

Start at: 2018-01-17 02:51:58  
End at: 2018-01-17 02:52:28  
Local clock offset: 1.003 ms  
Remote clock offset: -0.944 ms

# Below is generated by plot.py at 2018-01-17 07:28:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.27 Mbit/s  
95th percentile per-packet one-way delay: 110.807 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 61.30 Mbit/s  
95th percentile per-packet one-way delay: 110.797 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 9.31 Mbit/s  
95th percentile per-packet one-way delay: 110.467 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 5.42 Mbit/s  
95th percentile per-packet one-way delay: 111.769 ms  
Loss rate: 0.13%

Run 1: Report of Vivace-latency — Data Link

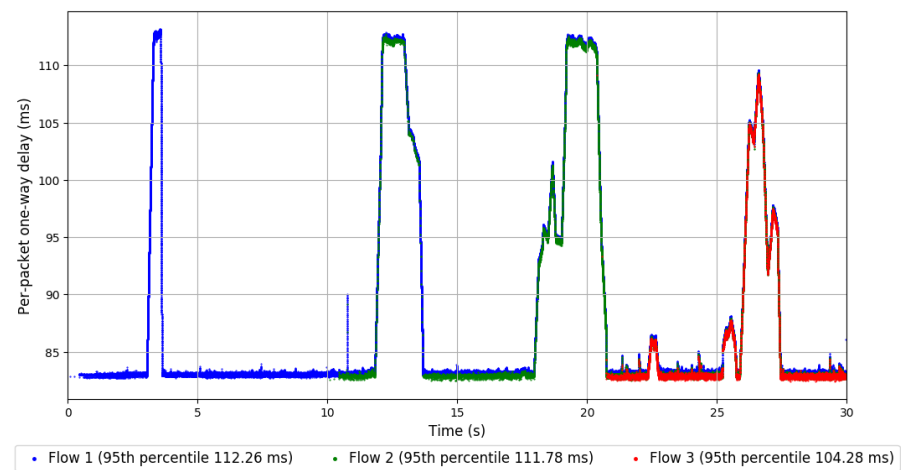
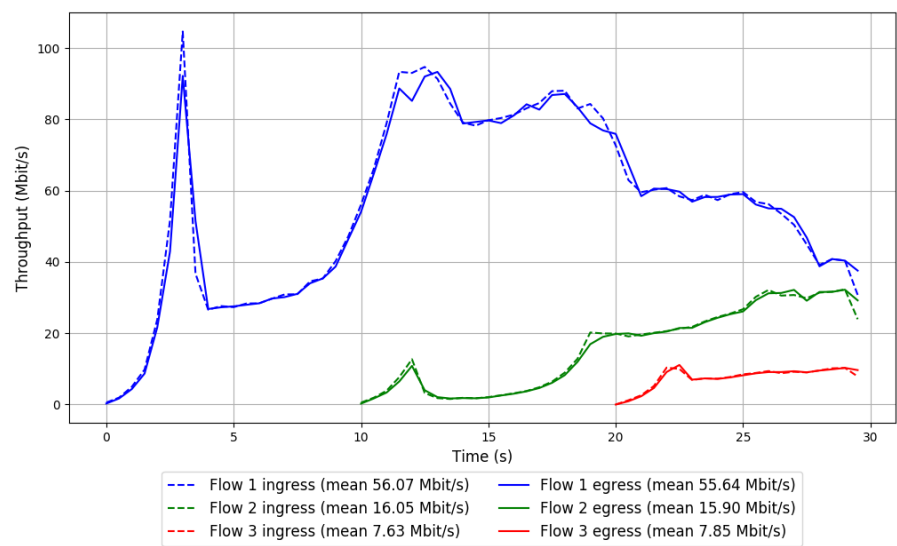


Run 2: Statistics of Vivace-latency

Start at: 2018-01-17 03:15:11  
End at: 2018-01-17 03:15:41  
Local clock offset: 1.015 ms  
Remote clock offset: -5.448 ms

# Below is generated by plot.py at 2018-01-17 07:28:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.73 Mbit/s  
95th percentile per-packet one-way delay: 112.195 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 55.64 Mbit/s  
95th percentile per-packet one-way delay: 112.258 ms  
Loss rate: 0.76%  
-- Flow 2:  
Average throughput: 15.90 Mbit/s  
95th percentile per-packet one-way delay: 111.785 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 7.85 Mbit/s  
95th percentile per-packet one-way delay: 104.275 ms  
Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link

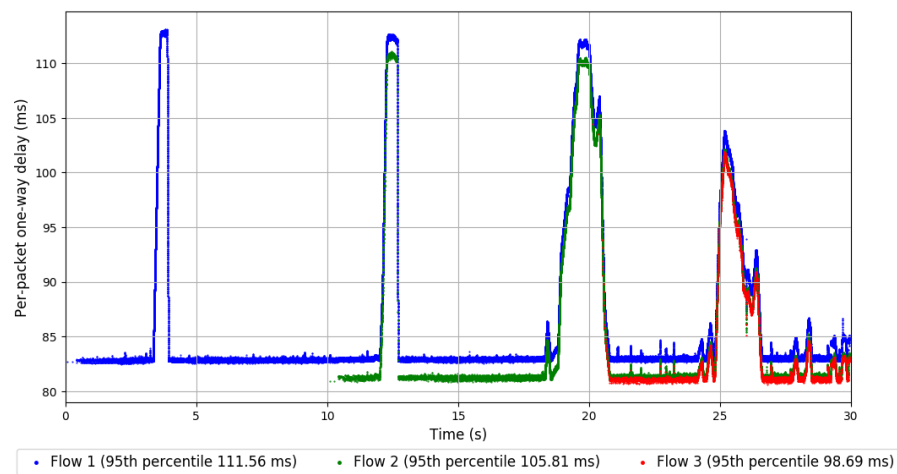
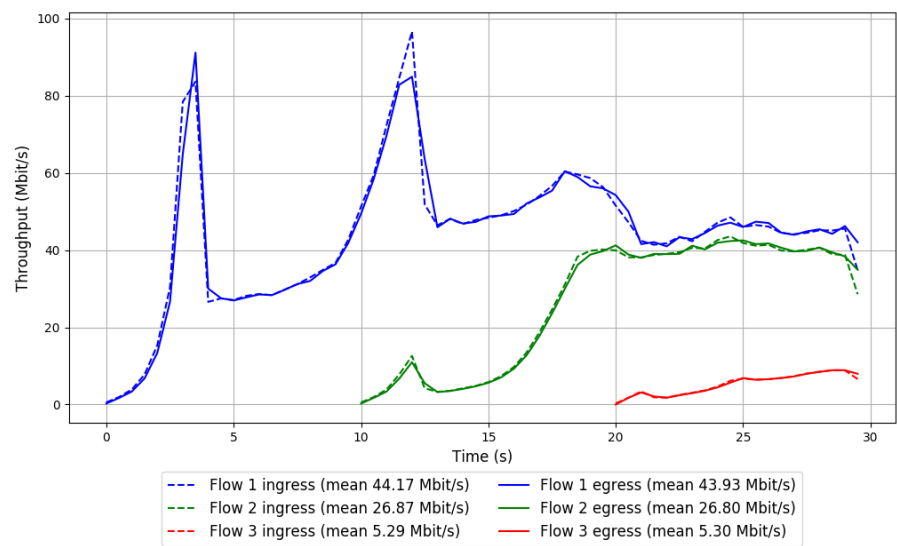


Run 3: Statistics of Vivace-latency

Start at: 2018-01-17 03:38:28  
End at: 2018-01-17 03:38:58  
Local clock offset: 0.966 ms  
Remote clock offset: -6.035 ms

# Below is generated by plot.py at 2018-01-17 07:28:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.49 Mbit/s  
95th percentile per-packet one-way delay: 109.724 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 43.93 Mbit/s  
95th percentile per-packet one-way delay: 111.562 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 26.80 Mbit/s  
95th percentile per-packet one-way delay: 105.808 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 5.30 Mbit/s  
95th percentile per-packet one-way delay: 98.693 ms  
Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



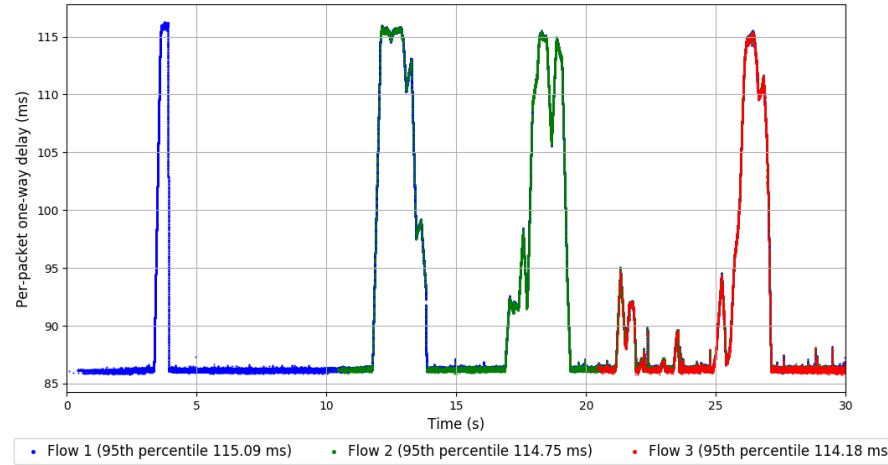
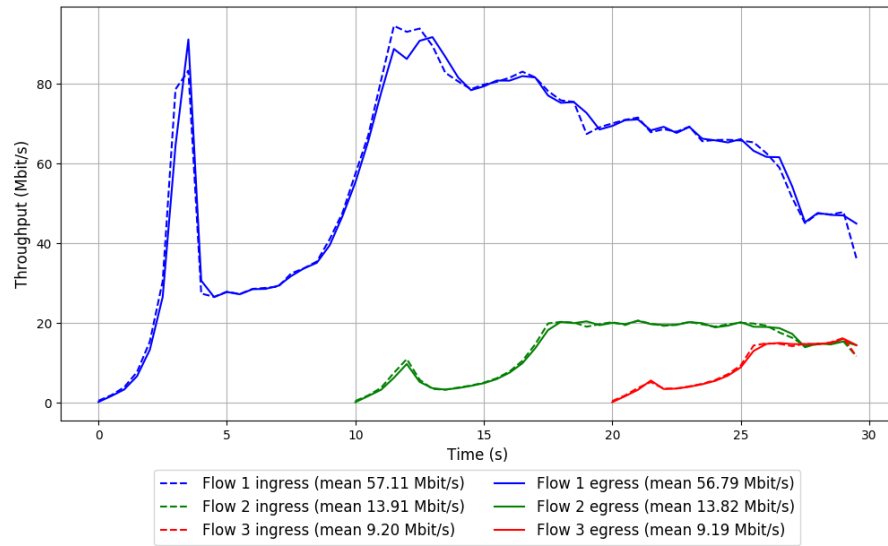
Run 4: Statistics of Vivace-latency

Start at: 2018-01-17 04:01:47  
End at: 2018-01-17 04:02:17  
Local clock offset: 0.907 ms  
Remote clock offset: -0.872 ms

# Below is generated by plot.py at 2018-01-17 07:29:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.00 Mbit/s  
95th percentile per-packet one-way delay: 114.994 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 56.79 Mbit/s  
95th percentile per-packet one-way delay: 115.088 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 13.82 Mbit/s  
95th percentile per-packet one-way delay: 114.749 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 9.19 Mbit/s  
95th percentile per-packet one-way delay: 114.180 ms  
Loss rate: 0.14%



# Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-17 04:25:03

End at: 2018-01-17 04:25:33

Local clock offset: 0.844 ms

Remote clock offset: 4.548 ms

# Below is generated by plot.py at 2018-01-17 07:29:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.07 Mbit/s

95th percentile per-packet one-way delay: 122.629 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 61.43 Mbit/s

95th percentile per-packet one-way delay: 122.748 ms

Loss rate: 0.48%

-- Flow 2:

Average throughput: 8.98 Mbit/s

95th percentile per-packet one-way delay: 122.089 ms

Loss rate: 1.03%

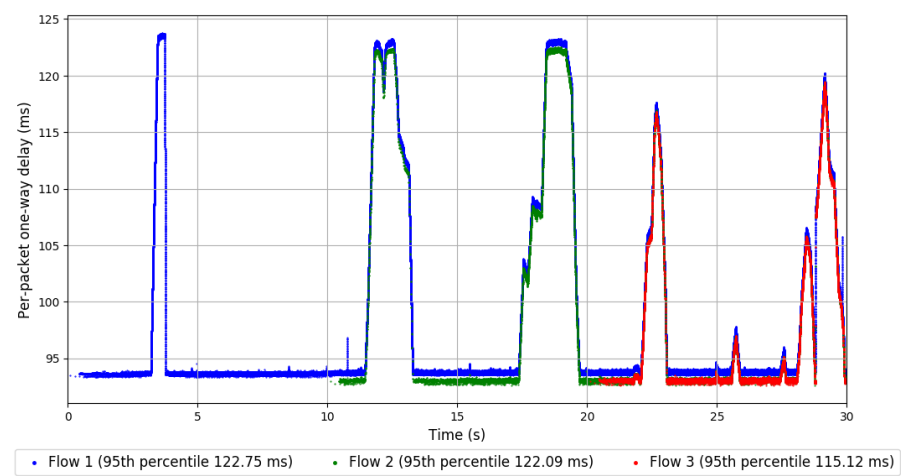
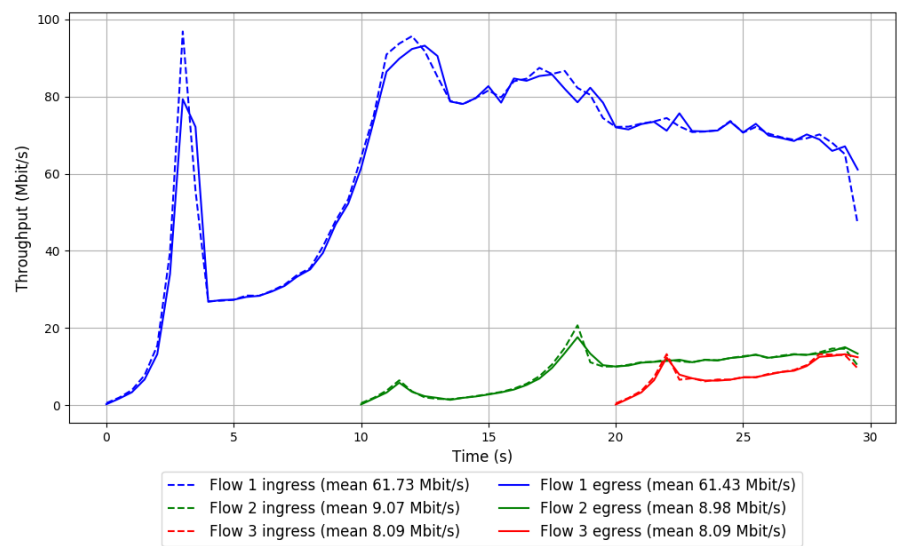
-- Flow 3:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 115.123 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-17 04:48:27

End at: 2018-01-17 04:48:57

Local clock offset: 0.754 ms

Remote clock offset: 3.393 ms

# Below is generated by plot.py at 2018-01-17 07:29:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.17 Mbit/s

95th percentile per-packet one-way delay: 119.303 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 60.68 Mbit/s

95th percentile per-packet one-way delay: 119.512 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 10.31 Mbit/s

95th percentile per-packet one-way delay: 115.133 ms

Loss rate: 0.79%

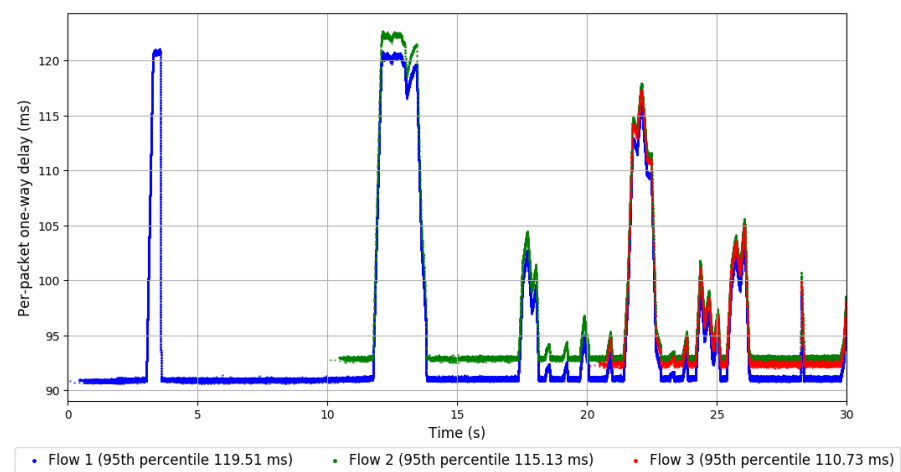
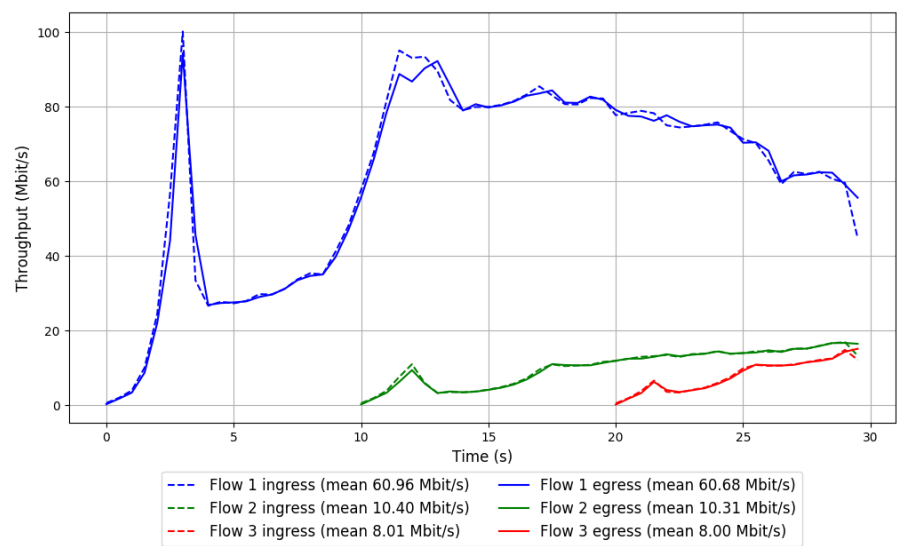
-- Flow 3:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 110.735 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link

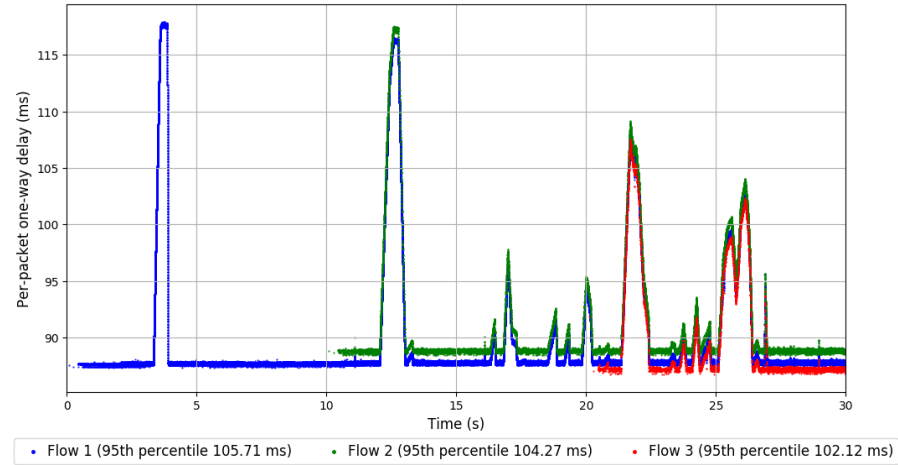
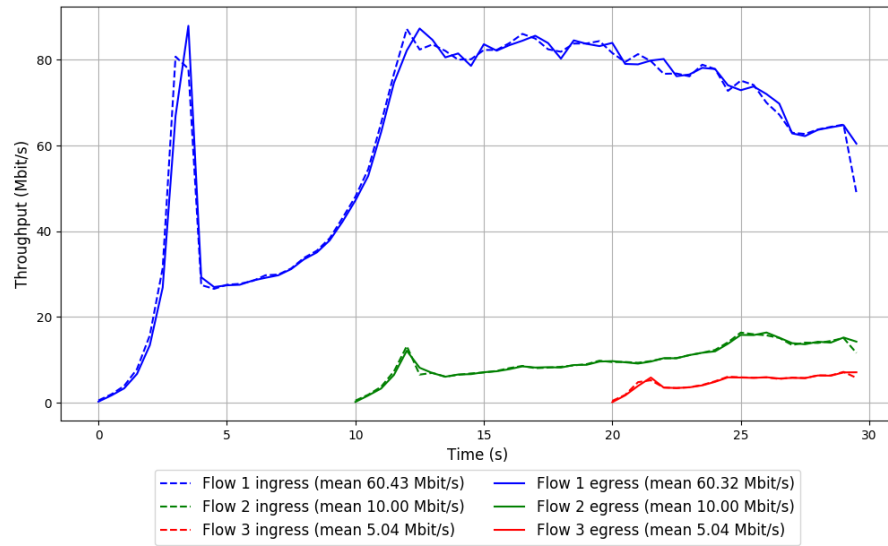


Run 7: Statistics of Vivace-latency

Start at: 2018-01-17 05:11:53  
End at: 2018-01-17 05:12:23  
Local clock offset: 0.711 ms  
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-01-17 07:29:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.63 Mbit/s  
95th percentile per-packet one-way delay: 105.550 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 60.32 Mbit/s  
95th percentile per-packet one-way delay: 105.714 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 10.00 Mbit/s  
95th percentile per-packet one-way delay: 104.267 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 5.04 Mbit/s  
95th percentile per-packet one-way delay: 102.118 ms  
Loss rate: 0.00%

# Run 7: Report of Vivace-latency — Data Link



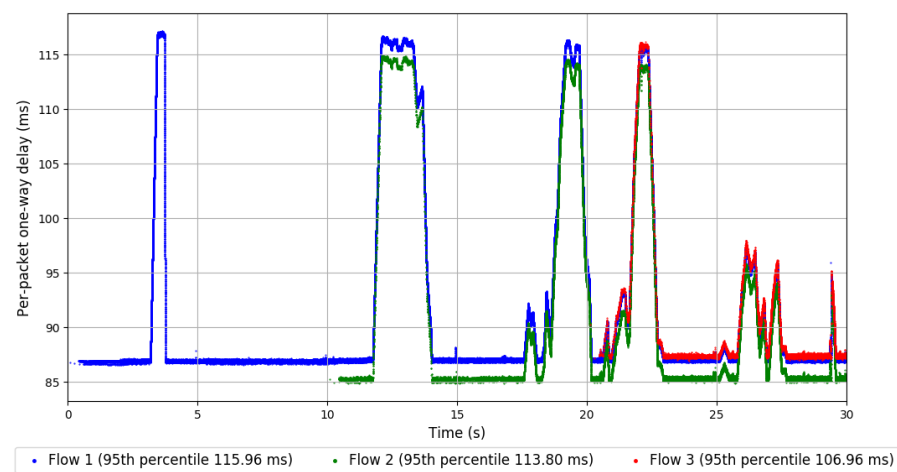
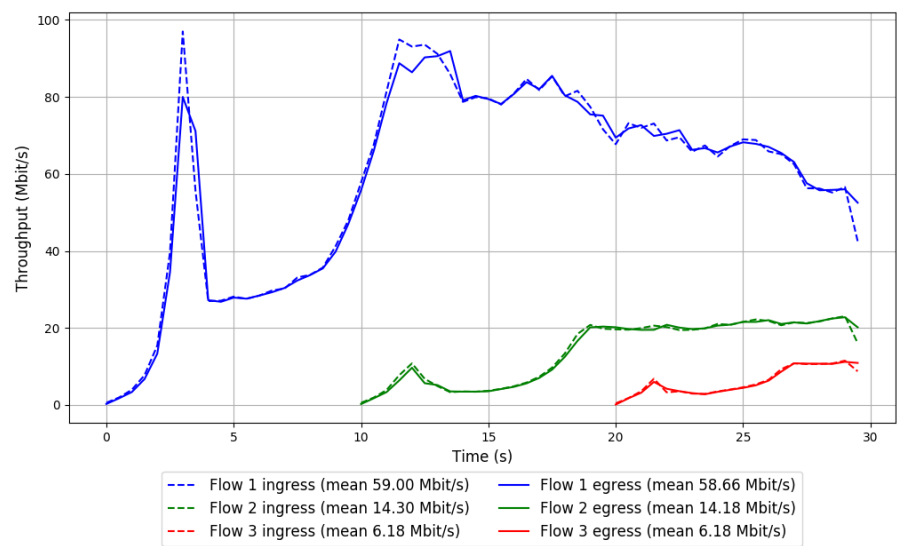
Run 8: Statistics of Vivace-latency

Start at: 2018-01-17 05:35:09  
End at: 2018-01-17 05:35:39  
Local clock offset: 0.662 ms  
Remote clock offset: -1.755 ms

# Below is generated by plot.py at 2018-01-17 07:30:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.13 Mbit/s  
95th percentile per-packet one-way delay: 115.790 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 58.66 Mbit/s  
95th percentile per-packet one-way delay: 115.957 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 14.18 Mbit/s  
95th percentile per-packet one-way delay: 113.804 ms  
Loss rate: 0.78%  
-- Flow 3:  
Average throughput: 6.18 Mbit/s  
95th percentile per-packet one-way delay: 106.958 ms  
Loss rate: 0.01%



Run 8: Report of Vivace-latency — Data Link

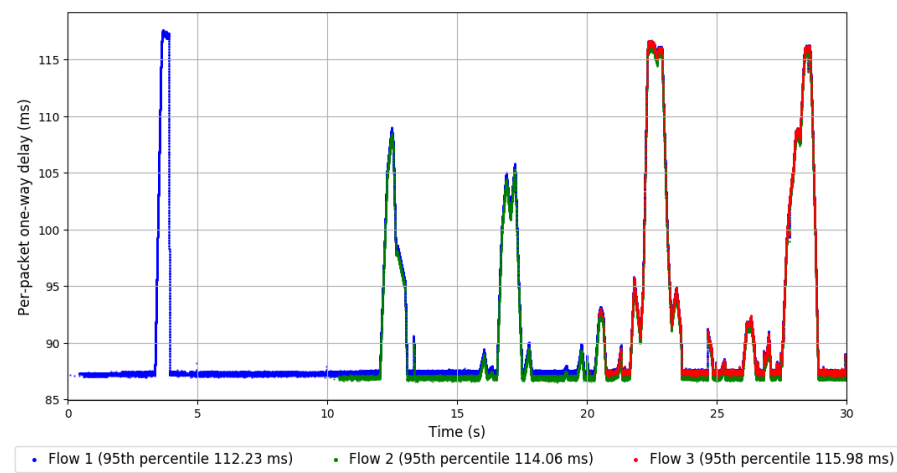
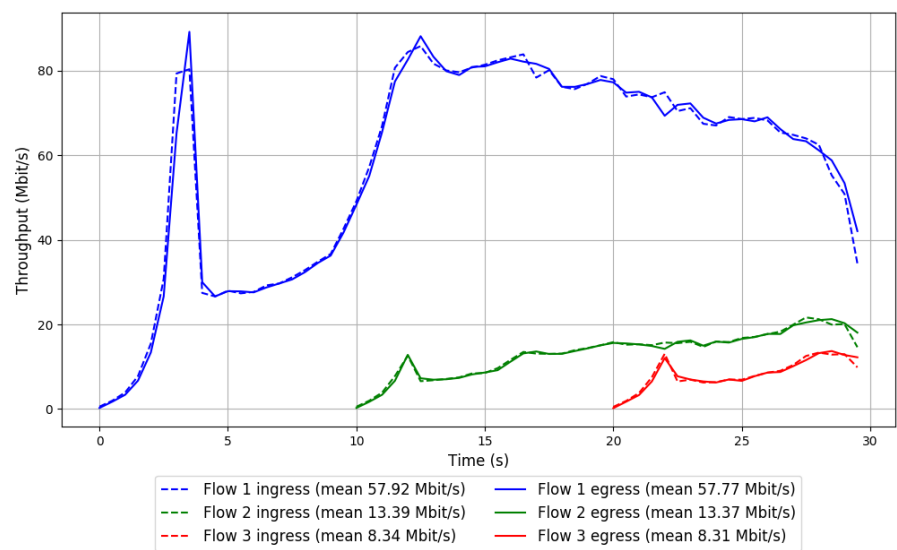


Run 9: Statistics of Vivace-latency

Start at: 2018-01-17 05:58:36  
End at: 2018-01-17 05:59:06  
Local clock offset: 0.673 ms  
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2018-01-17 07:30:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.39 Mbit/s  
95th percentile per-packet one-way delay: 113.451 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 57.77 Mbit/s  
95th percentile per-packet one-way delay: 112.234 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 13.37 Mbit/s  
95th percentile per-packet one-way delay: 114.064 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 8.31 Mbit/s  
95th percentile per-packet one-way delay: 115.979 ms  
Loss rate: 0.32%

Run 9: Report of Vivace-latency — Data Link

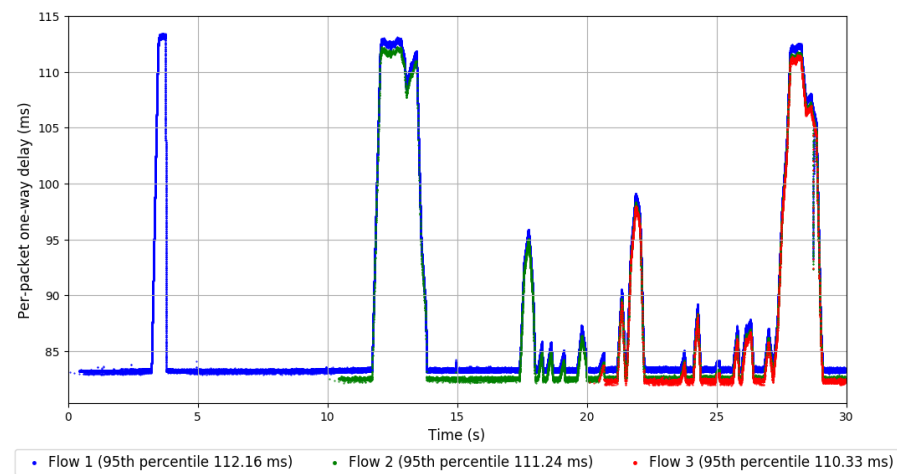
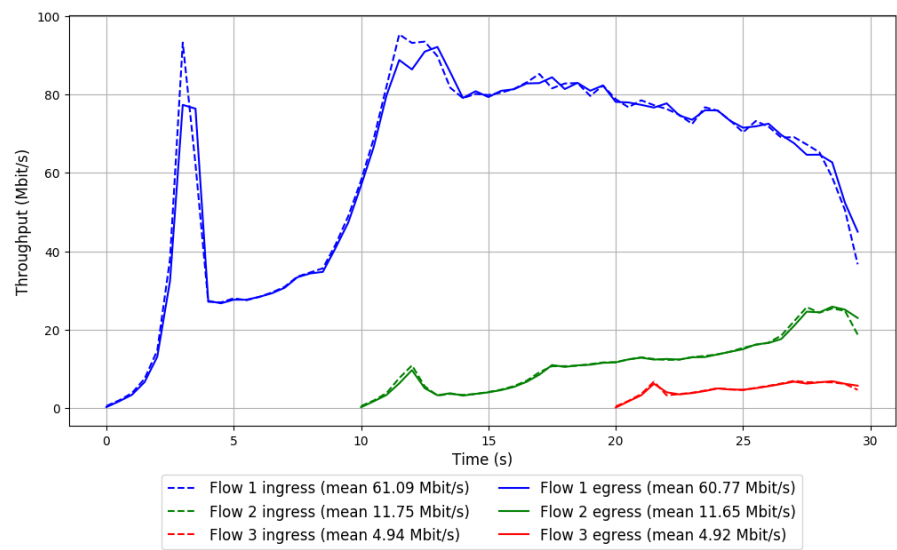


Run 10: Statistics of Vivace-latency

Start at: 2018-01-17 06:22:06  
End at: 2018-01-17 06:22:36  
Local clock offset: 0.732 ms  
Remote clock offset: -5.132 ms

# Below is generated by plot.py at 2018-01-17 07:30:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.14 Mbit/s  
95th percentile per-packet one-way delay: 111.957 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 60.77 Mbit/s  
95th percentile per-packet one-way delay: 112.161 ms  
Loss rate: 0.52%  
-- Flow 2:  
Average throughput: 11.65 Mbit/s  
95th percentile per-packet one-way delay: 111.239 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 4.92 Mbit/s  
95th percentile per-packet one-way delay: 110.327 ms  
Loss rate: 0.30%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-01-17 03:10:04

End at: 2018-01-17 03:10:34

Local clock offset: 1.098 ms

Remote clock offset: 0.289 ms

# Below is generated by plot.py at 2018-01-17 07:30:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 116.698 ms

Loss rate: 3.87%

-- Flow 1:

Average throughput: 47.64 Mbit/s

95th percentile per-packet one-way delay: 116.436 ms

Loss rate: 3.90%

-- Flow 2:

Average throughput: 16.16 Mbit/s

95th percentile per-packet one-way delay: 118.474 ms

Loss rate: 3.49%

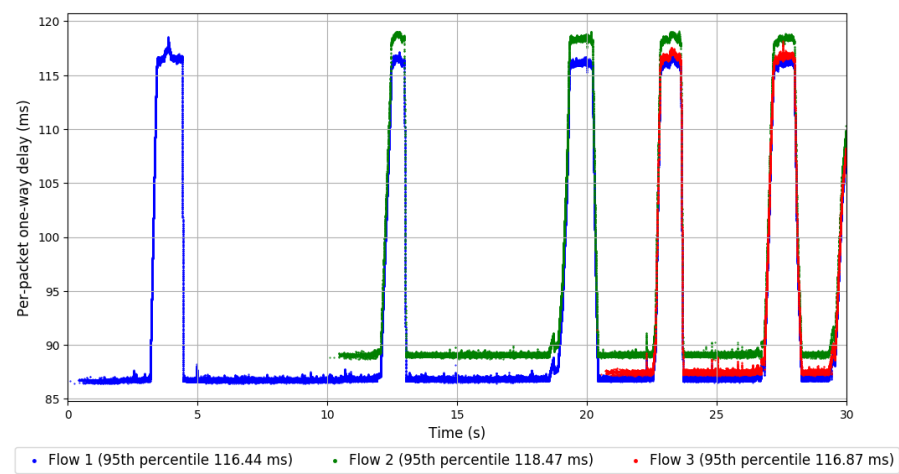
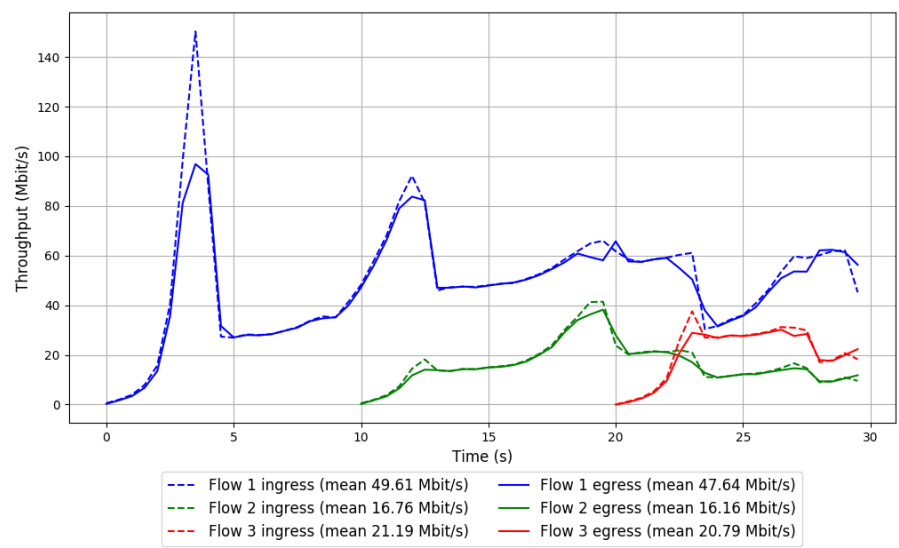
-- Flow 3:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 116.872 ms

Loss rate: 4.25%

Run 1: Report of Vivace-loss — Data Link



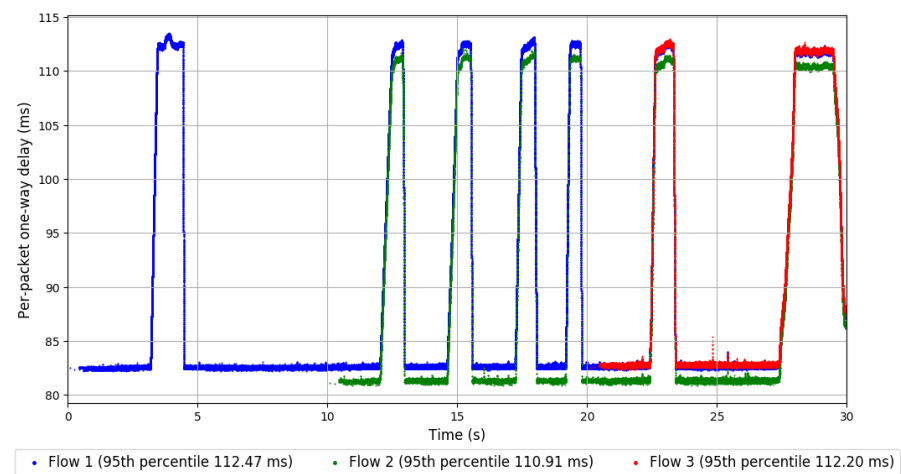
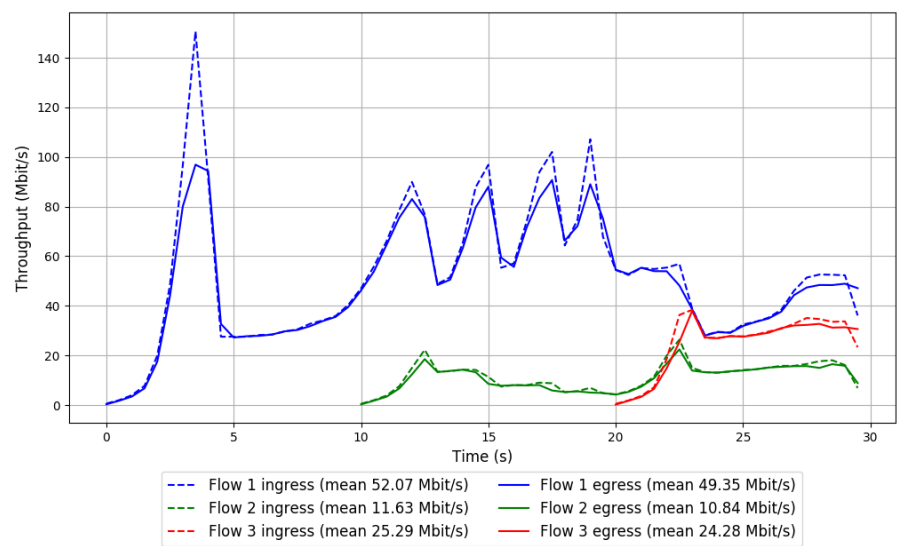
Run 2: Statistics of Vivace-loss

Start at: 2018-01-17 03:33:16  
End at: 2018-01-17 03:33:46  
Local clock offset: 0.928 ms  
Remote clock offset: -5.949 ms

# Below is generated by plot.py at 2018-01-17 07:31:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.55 Mbit/s  
95th percentile per-packet one-way delay: 112.426 ms  
Loss rate: 5.23%  
-- Flow 1:  
Average throughput: 49.35 Mbit/s  
95th percentile per-packet one-way delay: 112.466 ms  
Loss rate: 5.21%  
-- Flow 2:  
Average throughput: 10.84 Mbit/s  
95th percentile per-packet one-way delay: 110.913 ms  
Loss rate: 6.75%  
-- Flow 3:  
Average throughput: 24.28 Mbit/s  
95th percentile per-packet one-way delay: 112.199 ms  
Loss rate: 3.95%



Run 2: Report of Vivace-loss — Data Link

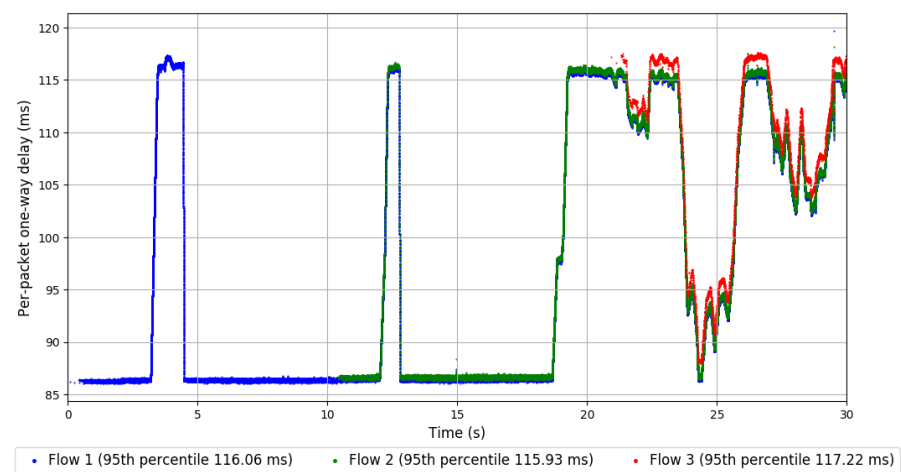
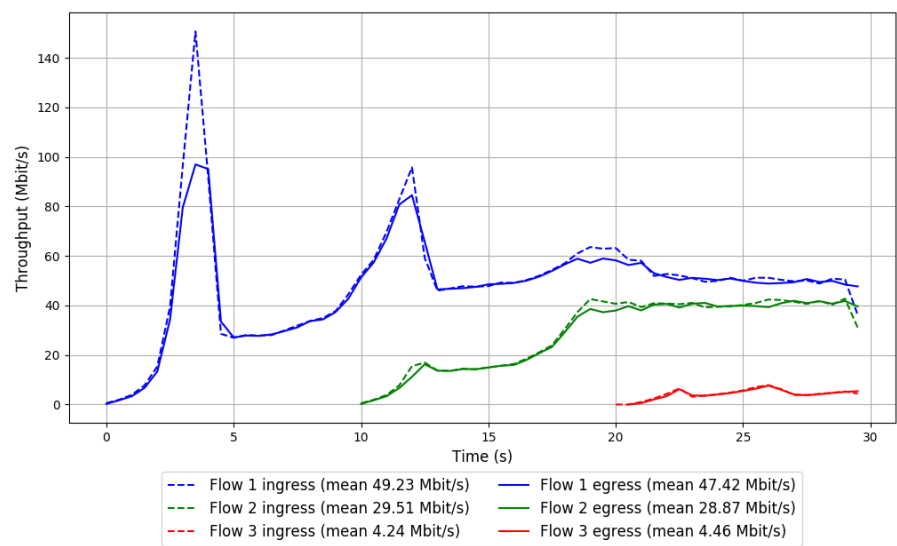


Run 3: Statistics of Vivace-loss

Start at: 2018-01-17 03:56:35  
End at: 2018-01-17 03:57:05  
Local clock offset: 0.895 ms  
Remote clock offset: -0.953 ms

# Below is generated by plot.py at 2018-01-17 07:31:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.97 Mbit/s  
95th percentile per-packet one-way delay: 116.027 ms  
Loss rate: 3.15%  
-- Flow 1:  
Average throughput: 47.42 Mbit/s  
95th percentile per-packet one-way delay: 116.060 ms  
Loss rate: 3.60%  
-- Flow 2:  
Average throughput: 28.87 Mbit/s  
95th percentile per-packet one-way delay: 115.932 ms  
Loss rate: 2.05%  
-- Flow 3:  
Average throughput: 4.46 Mbit/s  
95th percentile per-packet one-way delay: 117.216 ms  
Loss rate: 2.93%

Run 3: Report of Vivace-loss — Data Link

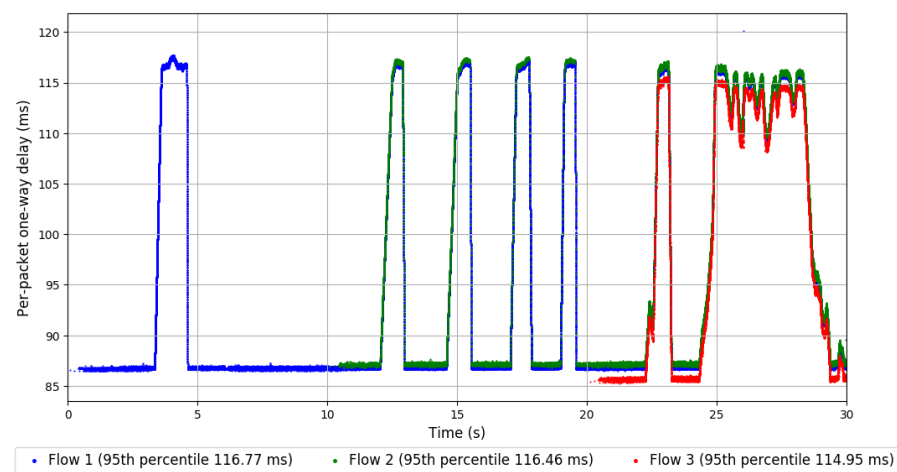
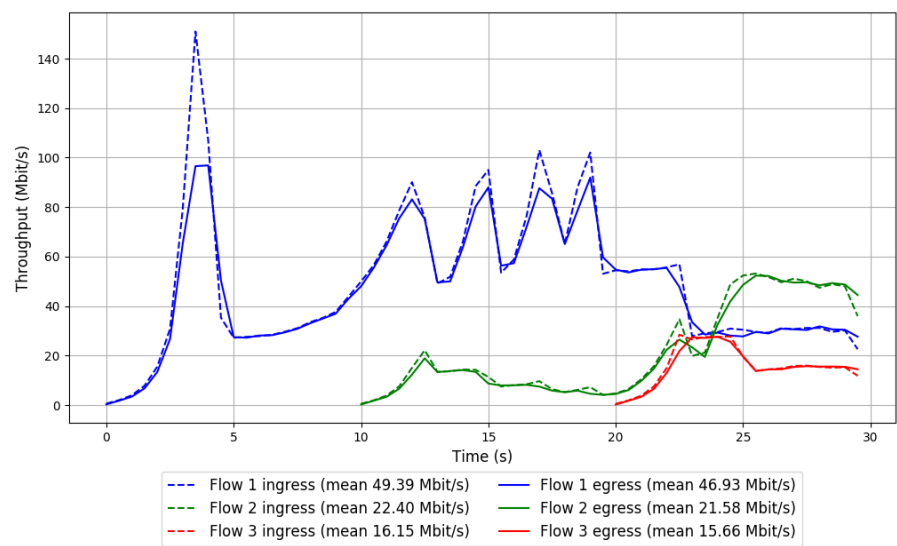


Run 4: Statistics of Vivace-loss

Start at: 2018-01-17 04:19:53  
End at: 2018-01-17 04:20:23  
Local clock offset: 0.854 ms  
Remote clock offset: -1.564 ms

# Below is generated by plot.py at 2018-01-17 07:31:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.43 Mbit/s  
95th percentile per-packet one-way delay: 116.708 ms  
Loss rate: 4.55%  
-- Flow 1:  
Average throughput: 46.93 Mbit/s  
95th percentile per-packet one-way delay: 116.767 ms  
Loss rate: 4.98%  
-- Flow 2:  
Average throughput: 21.58 Mbit/s  
95th percentile per-packet one-way delay: 116.464 ms  
Loss rate: 3.64%  
-- Flow 3:  
Average throughput: 15.66 Mbit/s  
95th percentile per-packet one-way delay: 114.954 ms  
Loss rate: 3.02%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-17 04:43:17

End at: 2018-01-17 04:43:47

Local clock offset: 0.775 ms

Remote clock offset: 3.327 ms

# Below is generated by plot.py at 2018-01-17 07:31:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 122.535 ms

Loss rate: 5.33%

-- Flow 1:

Average throughput: 46.30 Mbit/s

95th percentile per-packet one-way delay: 122.573 ms

Loss rate: 5.00%

-- Flow 2:

Average throughput: 25.35 Mbit/s

95th percentile per-packet one-way delay: 122.438 ms

Loss rate: 6.01%

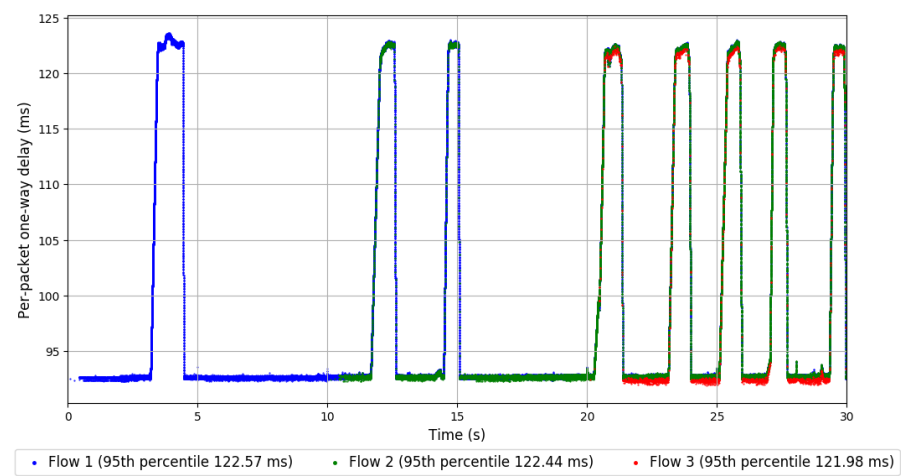
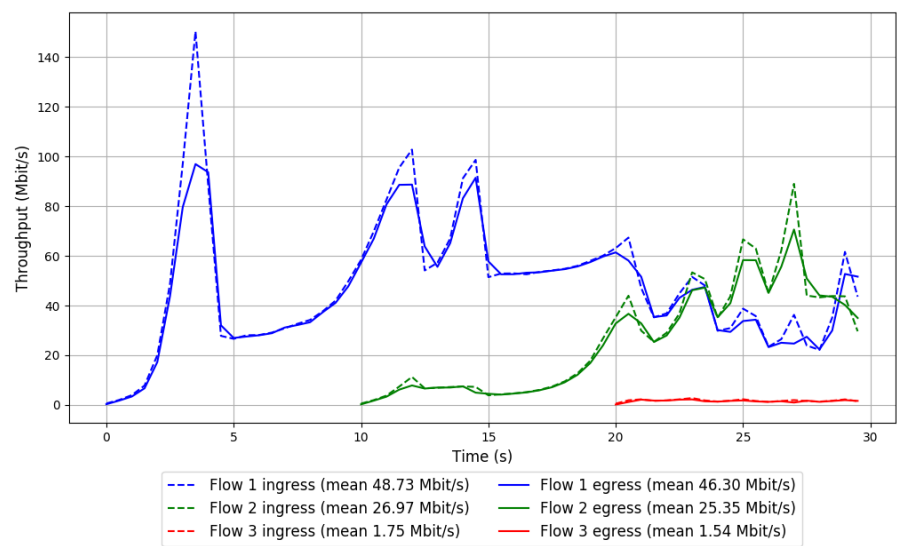
-- Flow 3:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 121.977 ms

Loss rate: 12.10%

Run 5: Report of Vivace-loss — Data Link



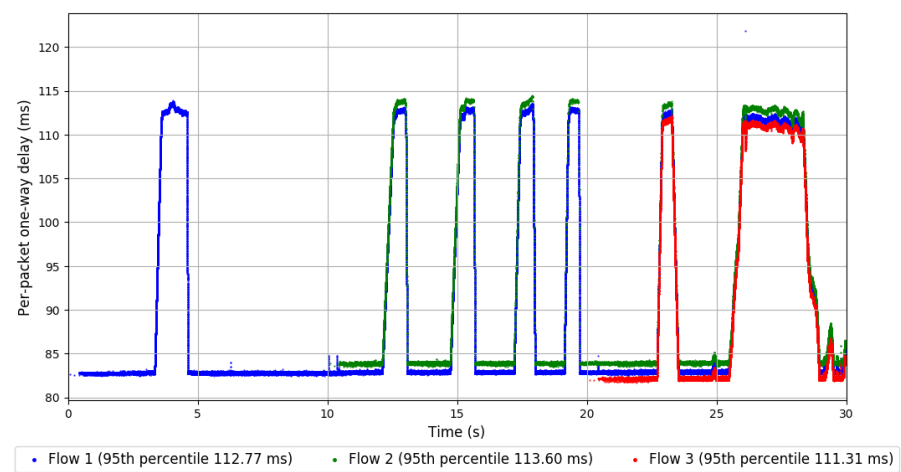
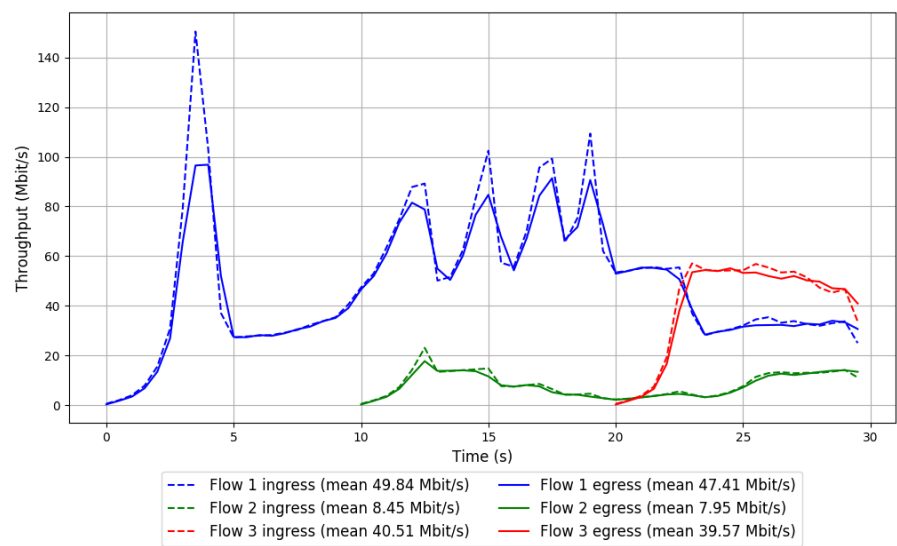
Run 6: Statistics of Vivace-loss

Start at: 2018-01-17 05:06:41  
End at: 2018-01-17 05:07:11  
Local clock offset: 0.647 ms  
Remote clock offset: -5.383 ms

# Below is generated by plot.py at 2018-01-17 07:31:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.74 Mbit/s  
95th percentile per-packet one-way delay: 112.766 ms  
Loss rate: 4.44%  
-- Flow 1:  
Average throughput: 47.41 Mbit/s  
95th percentile per-packet one-way delay: 112.772 ms  
Loss rate: 4.86%  
-- Flow 2:  
Average throughput: 7.95 Mbit/s  
95th percentile per-packet one-way delay: 113.597 ms  
Loss rate: 5.83%  
-- Flow 3:  
Average throughput: 39.57 Mbit/s  
95th percentile per-packet one-way delay: 111.314 ms  
Loss rate: 2.29%



Run 6: Report of Vivace-loss — Data Link

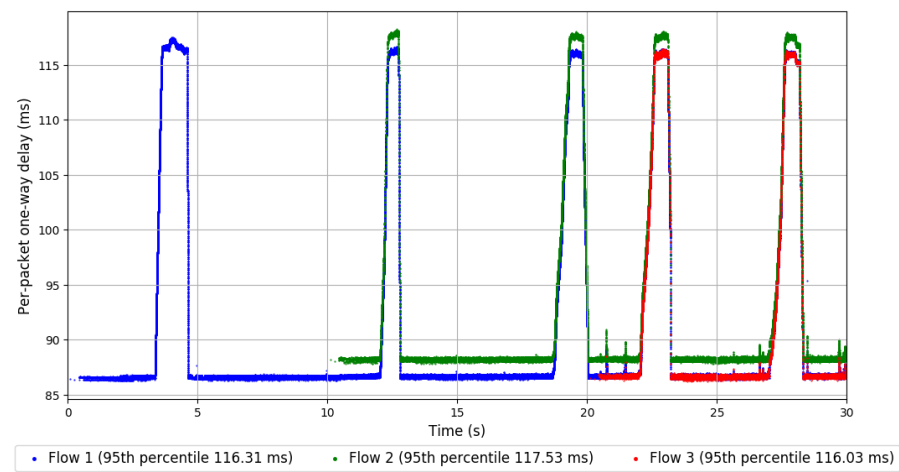
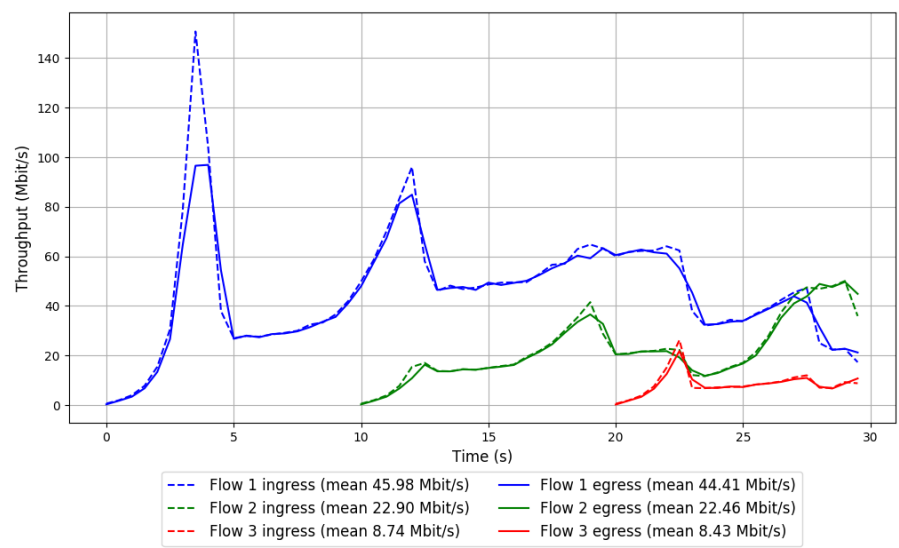


Run 7: Statistics of Vivace-loss

Start at: 2018-01-17 05:30:03  
End at: 2018-01-17 05:30:33  
Local clock offset: 0.656 ms  
Remote clock offset: -0.753 ms

# Below is generated by plot.py at 2018-01-17 07:32:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.11 Mbit/s  
95th percentile per-packet one-way delay: 116.527 ms  
Loss rate: 3.08%  
-- Flow 1:  
Average throughput: 44.41 Mbit/s  
95th percentile per-packet one-way delay: 116.309 ms  
Loss rate: 3.43%  
-- Flow 2:  
Average throughput: 22.46 Mbit/s  
95th percentile per-packet one-way delay: 117.527 ms  
Loss rate: 1.93%  
-- Flow 3:  
Average throughput: 8.43 Mbit/s  
95th percentile per-packet one-way delay: 116.028 ms  
Loss rate: 3.55%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-17 05:53:24

End at: 2018-01-17 05:53:54

Local clock offset: 0.661 ms

Remote clock offset: 0.558 ms

# Below is generated by plot.py at 2018-01-17 07:32:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 62.46 Mbit/s

95th percentile per-packet one-way delay: 119.736 ms

Loss rate: 4.82%

-- Flow 1:

Average throughput: 46.29 Mbit/s

95th percentile per-packet one-way delay: 119.808 ms

Loss rate: 4.90%

-- Flow 2:

Average throughput: 20.69 Mbit/s

95th percentile per-packet one-way delay: 118.556 ms

Loss rate: 4.35%

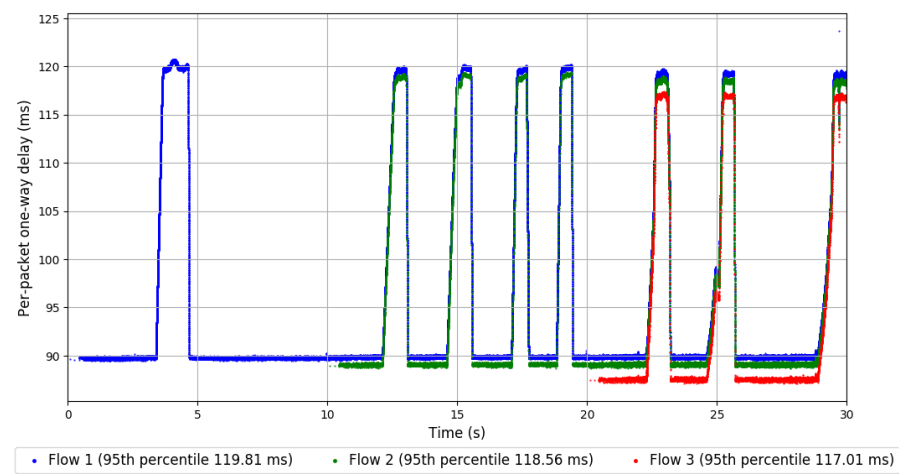
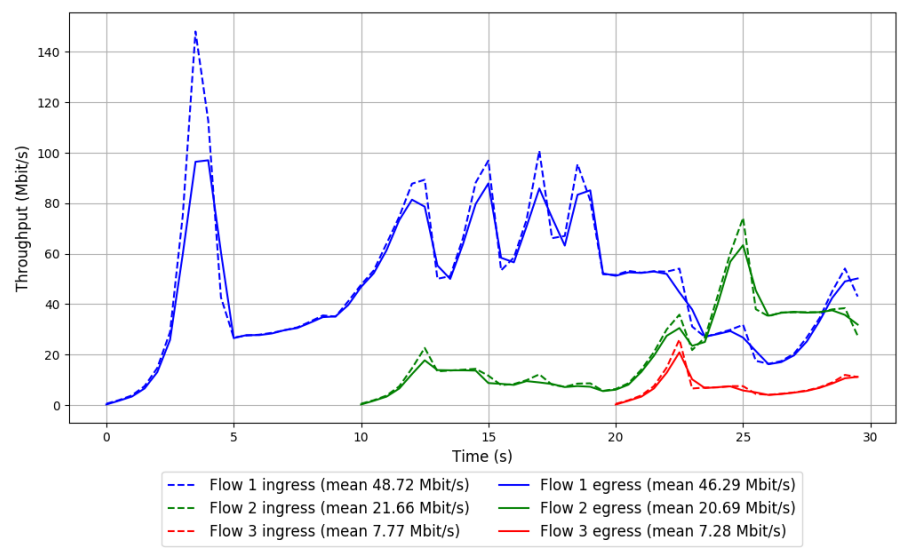
-- Flow 3:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 117.011 ms

Loss rate: 5.97%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-17 06:16:55

End at: 2018-01-17 06:17:25

Local clock offset: 0.719 ms

Remote clock offset: 0.843 ms

# Below is generated by plot.py at 2018-01-17 07:32:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.62 Mbit/s

95th percentile per-packet one-way delay: 118.409 ms

Loss rate: 4.84%

-- Flow 1:

Average throughput: 35.22 Mbit/s

95th percentile per-packet one-way delay: 116.876 ms

Loss rate: 5.09%

-- Flow 2:

Average throughput: 37.75 Mbit/s

95th percentile per-packet one-way delay: 118.825 ms

Loss rate: 4.39%

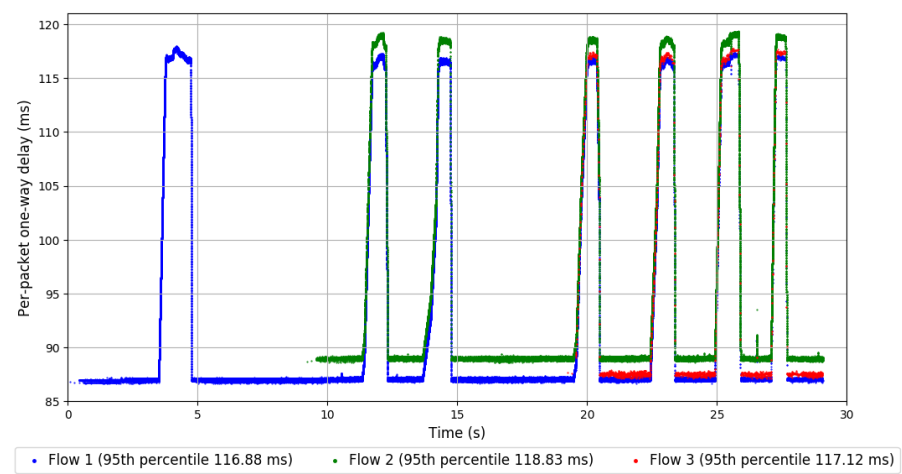
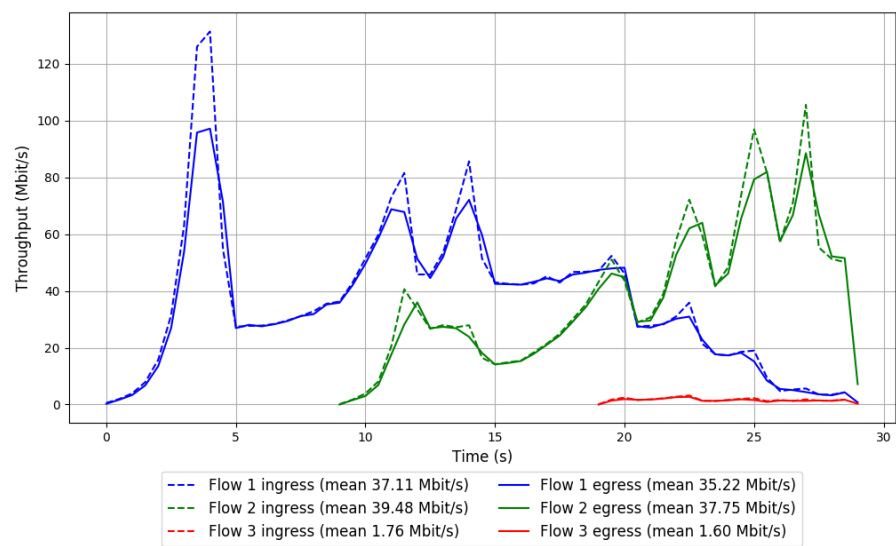
-- Flow 3:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 117.124 ms

Loss rate: 9.20%

Run 9: Report of Vivace-loss — Data Link



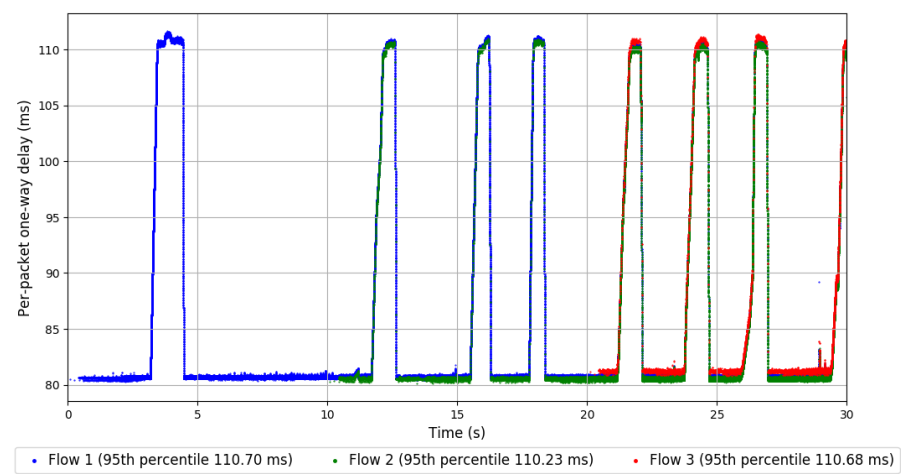
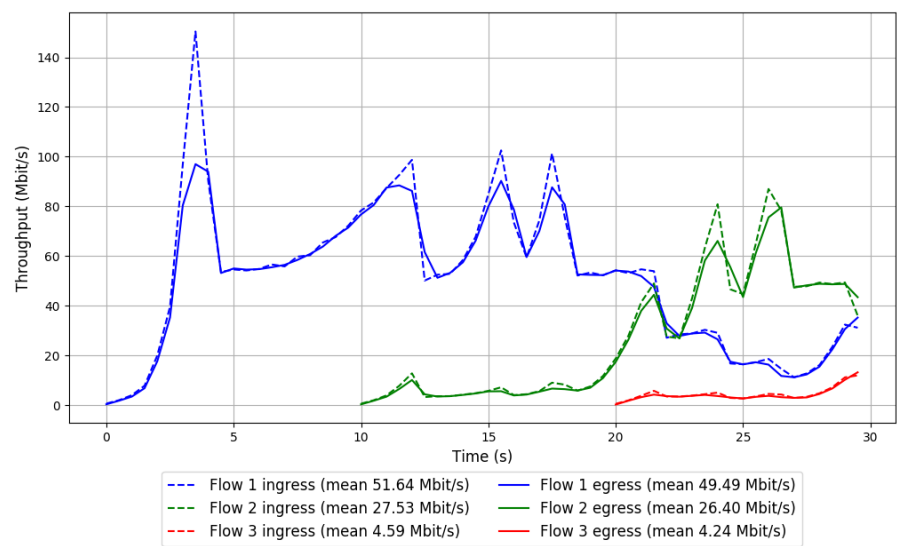
Run 10: Statistics of Vivace-loss

Start at: 2018-01-17 06:40:06  
End at: 2018-01-17 06:40:36  
Local clock offset: 0.61 ms  
Remote clock offset: -4.923 ms

# Below is generated by plot.py at 2018-01-17 07:32:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.45 Mbit/s  
95th percentile per-packet one-way delay: 110.583 ms  
Loss rate: 4.12%  
-- Flow 1:  
Average throughput: 49.49 Mbit/s  
95th percentile per-packet one-way delay: 110.701 ms  
Loss rate: 4.07%  
-- Flow 2:  
Average throughput: 26.40 Mbit/s  
95th percentile per-packet one-way delay: 110.234 ms  
Loss rate: 3.98%  
-- Flow 3:  
Average throughput: 4.24 Mbit/s  
95th percentile per-packet one-way delay: 110.676 ms  
Loss rate: 7.39%



Run 10: Report of Vivace-loss — Data Link

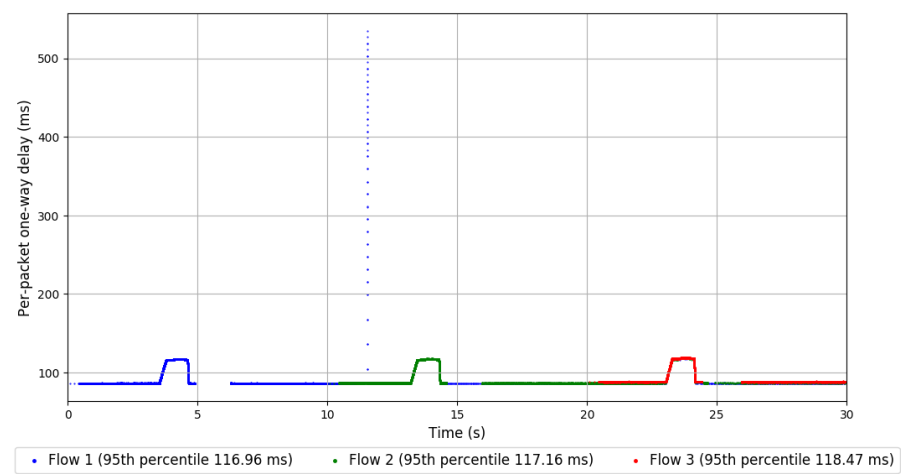
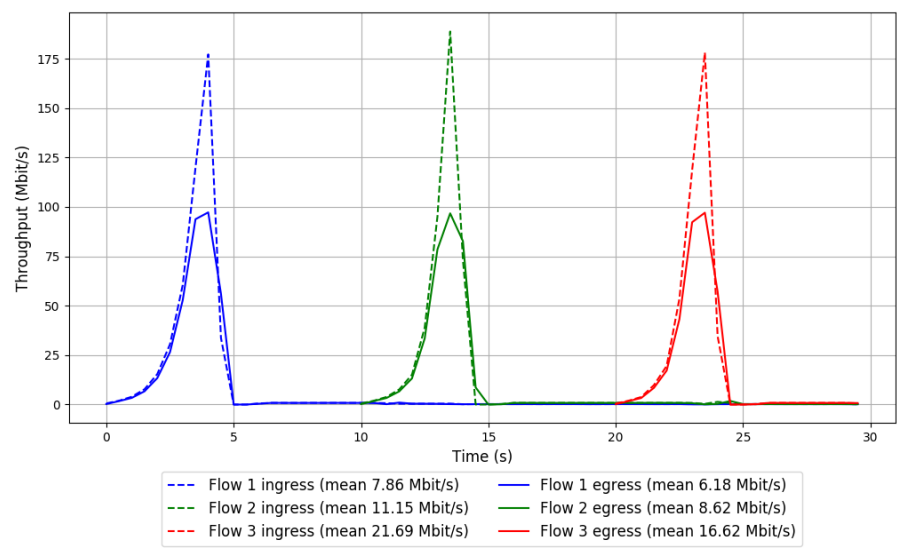


Run 1: Statistics of Vivace-LTE

Start at: 2018-01-17 02:54:40  
End at: 2018-01-17 02:55:10  
Local clock offset: 0.93 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-01-17 07:32:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.38 Mbit/s  
95th percentile per-packet one-way delay: 117.904 ms  
Loss rate: 22.44%  
-- Flow 1:  
Average throughput: 6.18 Mbit/s  
95th percentile per-packet one-way delay: 116.959 ms  
Loss rate: 21.35%  
-- Flow 2:  
Average throughput: 8.62 Mbit/s  
95th percentile per-packet one-way delay: 117.162 ms  
Loss rate: 22.70%  
-- Flow 3:  
Average throughput: 16.62 Mbit/s  
95th percentile per-packet one-way delay: 118.472 ms  
Loss rate: 23.37%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-17 03:17:53

End at: 2018-01-17 03:18:23

Local clock offset: 1.1 ms

Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2018-01-17 07:32:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.51 Mbit/s

95th percentile per-packet one-way delay: 118.327 ms

Loss rate: 22.29%

-- Flow 1:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 118.770 ms

Loss rate: 21.89%

-- Flow 2:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 117.222 ms

Loss rate: 21.85%

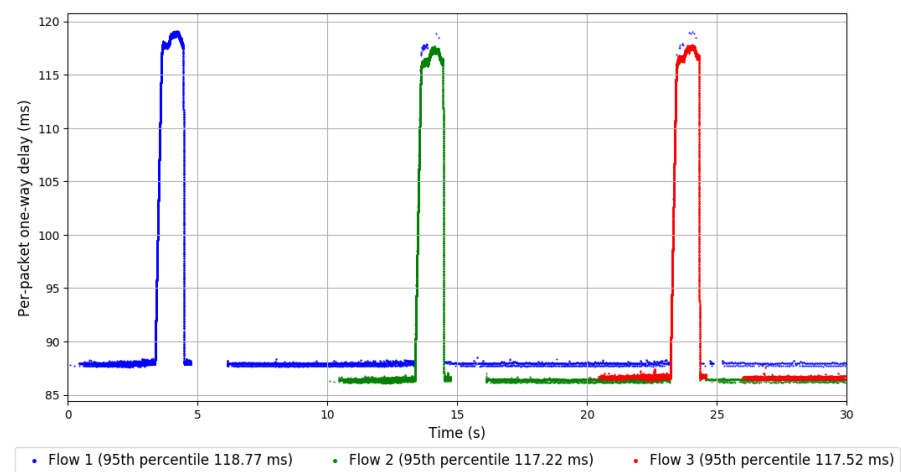
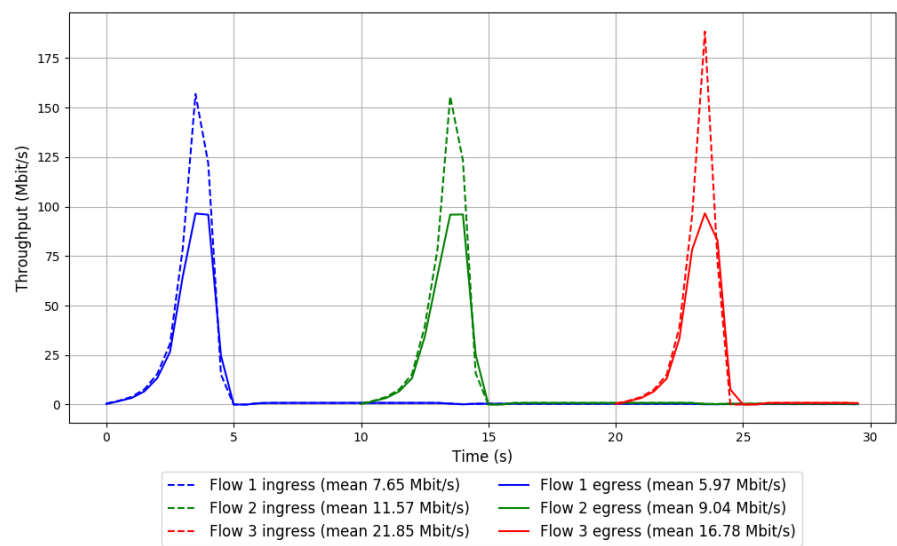
-- Flow 3:

Average throughput: 16.78 Mbit/s

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

Loss rate: 23.20%

Run 2: Report of Vivace-LTE — Data Link

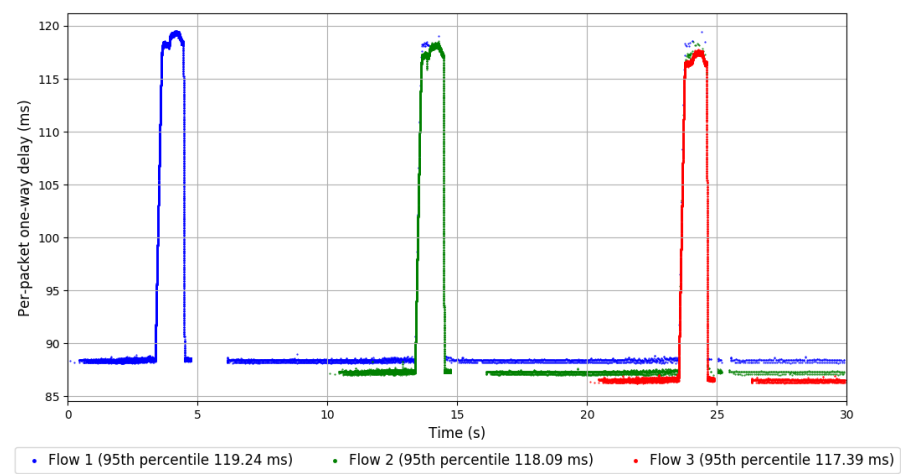
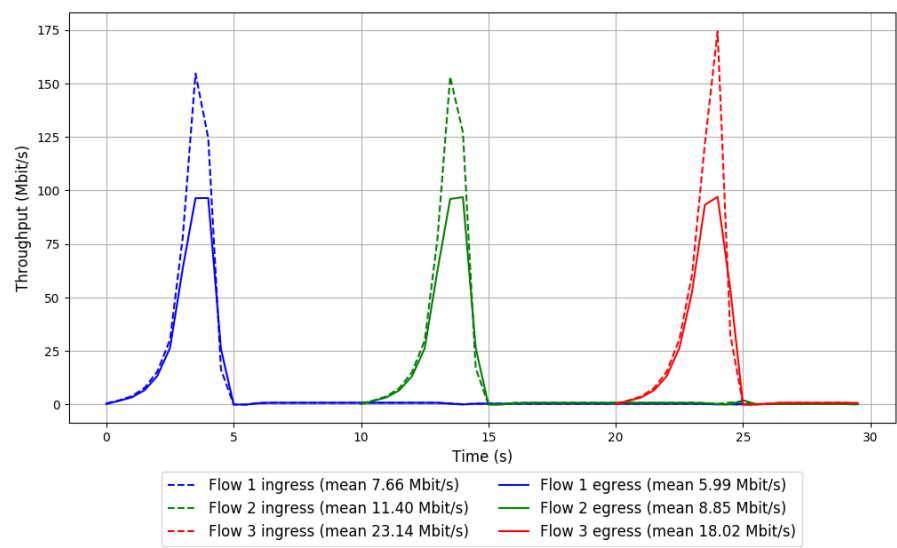


Run 3: Statistics of Vivace-LTE

Start at: 2018-01-17 03:41:09  
End at: 2018-01-17 03:41:39  
Local clock offset: 0.967 ms  
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2018-01-17 07:32:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.79 Mbit/s  
95th percentile per-packet one-way delay: 118.733 ms  
Loss rate: 22.10%  
-- Flow 1:  
Average throughput: 5.99 Mbit/s  
95th percentile per-packet one-way delay: 119.240 ms  
Loss rate: 21.88%  
-- Flow 2:  
Average throughput: 8.85 Mbit/s  
95th percentile per-packet one-way delay: 118.089 ms  
Loss rate: 22.30%  
-- Flow 3:  
Average throughput: 18.02 Mbit/s  
95th percentile per-packet one-way delay: 117.393 ms  
Loss rate: 22.12%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-17 04:04:21

End at: 2018-01-17 04:04:51

Local clock offset: 0.837 ms

Remote clock offset: -0.8 ms

# Below is generated by plot.py at 2018-01-17 07:32:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.12 Mbit/s

95th percentile per-packet one-way delay: 118.546 ms

Loss rate: 22.69%

-- Flow 1:

Average throughput: 5.86 Mbit/s

95th percentile per-packet one-way delay: 118.642 ms

Loss rate: 22.12%

-- Flow 2:

Average throughput: 8.63 Mbit/s

95th percentile per-packet one-way delay: 118.562 ms

Loss rate: 22.66%

-- Flow 3:

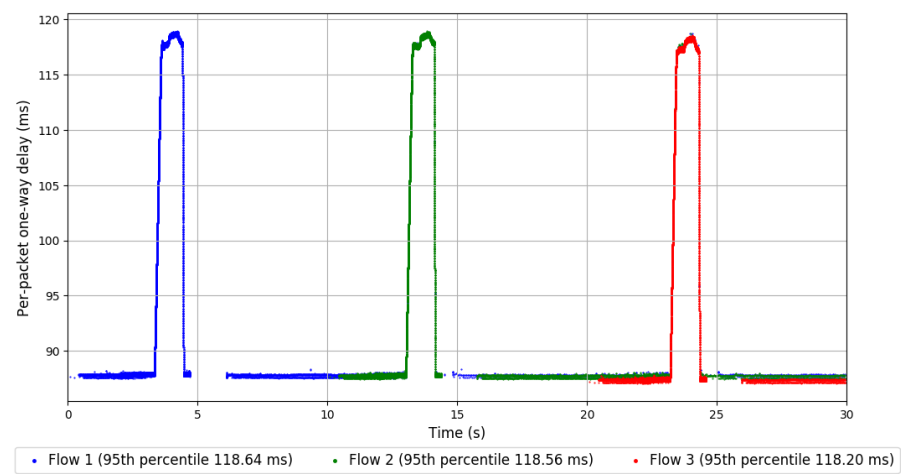
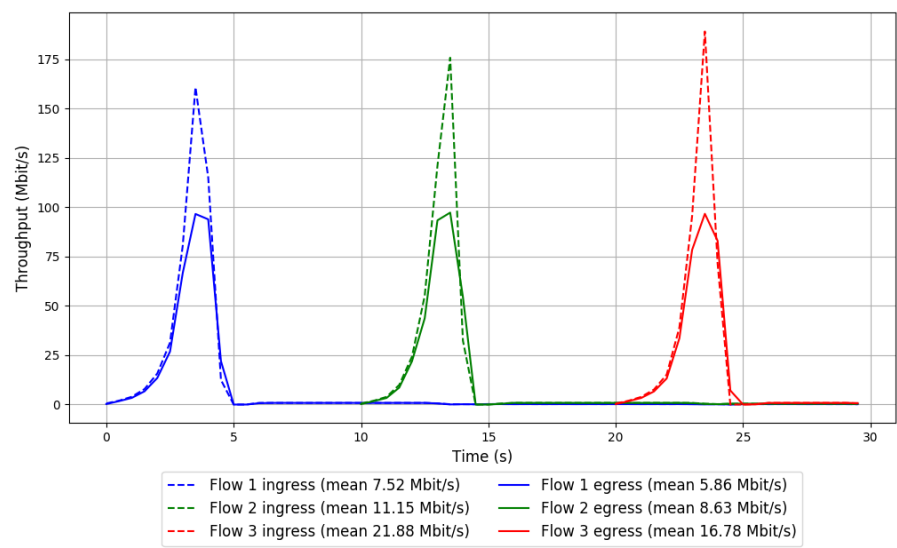
Average throughput: 16.78 Mbit/s

95th percentile per-packet one-way delay: 118.202 ms

Loss rate: 23.31%



Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-17 04:27:45

End at: 2018-01-17 04:28:15

Local clock offset: 0.834 ms

Remote clock offset: 10.22 ms

# Below is generated by plot.py at 2018-01-17 07:32:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 129.700 ms

Loss rate: 22.14%

-- Flow 1:

Average throughput: 5.98 Mbit/s

95th percentile per-packet one-way delay: 129.678 ms

Loss rate: 21.86%

-- Flow 2:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 129.876 ms

Loss rate: 22.81%

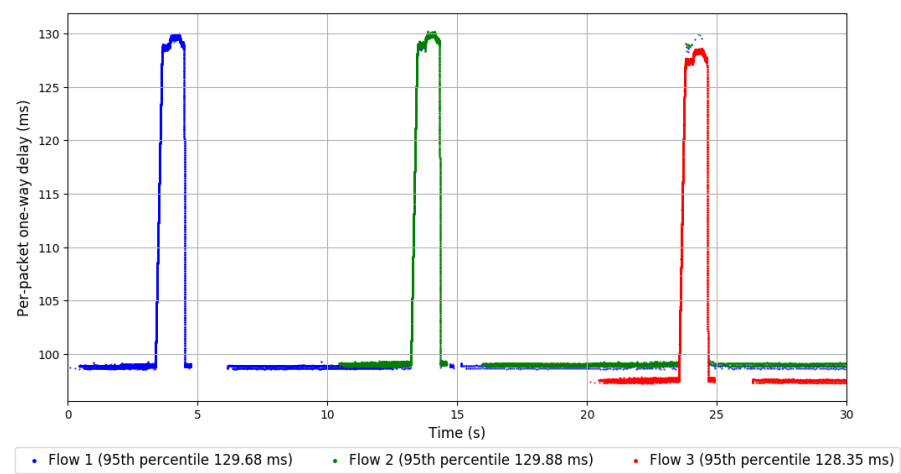
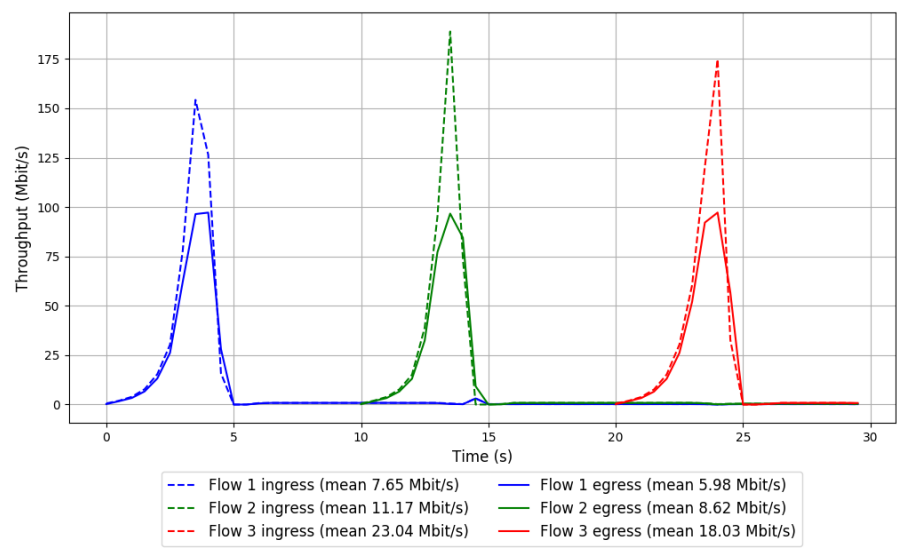
-- Flow 3:

Average throughput: 18.03 Mbit/s

95th percentile per-packet one-way delay: 128.348 ms

Loss rate: 21.77%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-17 04:51:09

End at: 2018-01-17 04:51:39

Local clock offset: 0.744 ms

Remote clock offset: 4.364 ms

# Below is generated by plot.py at 2018-01-17 07:32:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.08 Mbit/s

95th percentile per-packet one-way delay: 122.497 ms

Loss rate: 22.70%

-- Flow 1:

Average throughput: 5.78 Mbit/s

95th percentile per-packet one-way delay: 122.329 ms

Loss rate: 22.47%

-- Flow 2:

Average throughput: 8.51 Mbit/s

95th percentile per-packet one-way delay: 122.594 ms

Loss rate: 22.93%

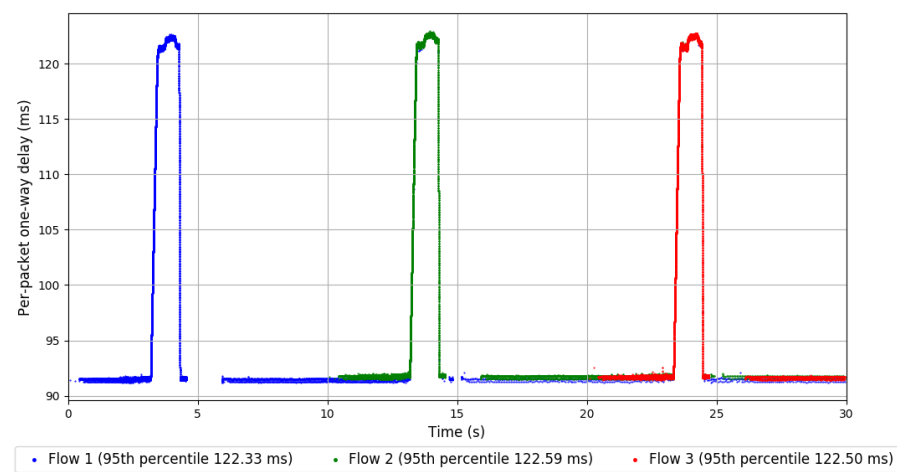
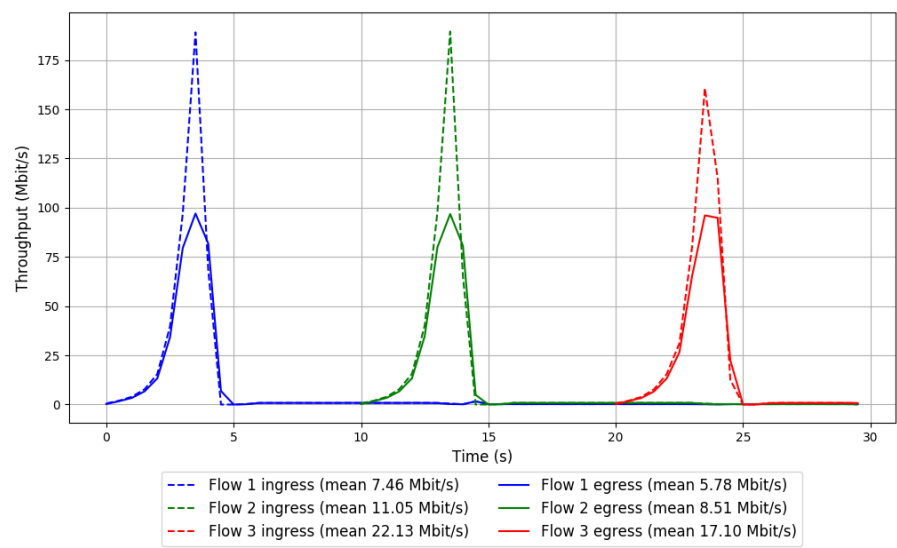
-- Flow 3:

Average throughput: 17.10 Mbit/s

95th percentile per-packet one-way delay: 122.497 ms

Loss rate: 22.71%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-17 05:14:27

End at: 2018-01-17 05:14:57

Local clock offset: 0.652 ms

Remote clock offset: 1.467 ms

# Below is generated by plot.py at 2018-01-17 07:32:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.19 Mbit/s

95th percentile per-packet one-way delay: 120.810 ms

Loss rate: 22.47%

-- Flow 1:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 119.434 ms

Loss rate: 21.88%

-- Flow 2:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 121.123 ms

Loss rate: 22.30%

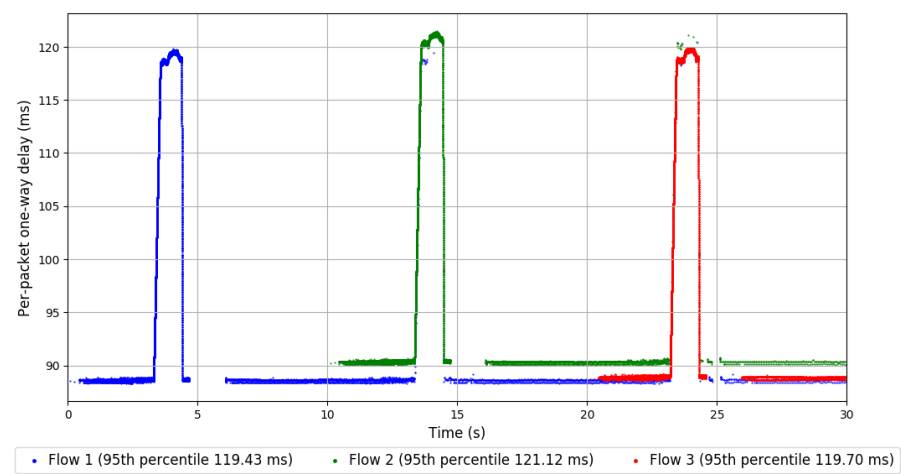
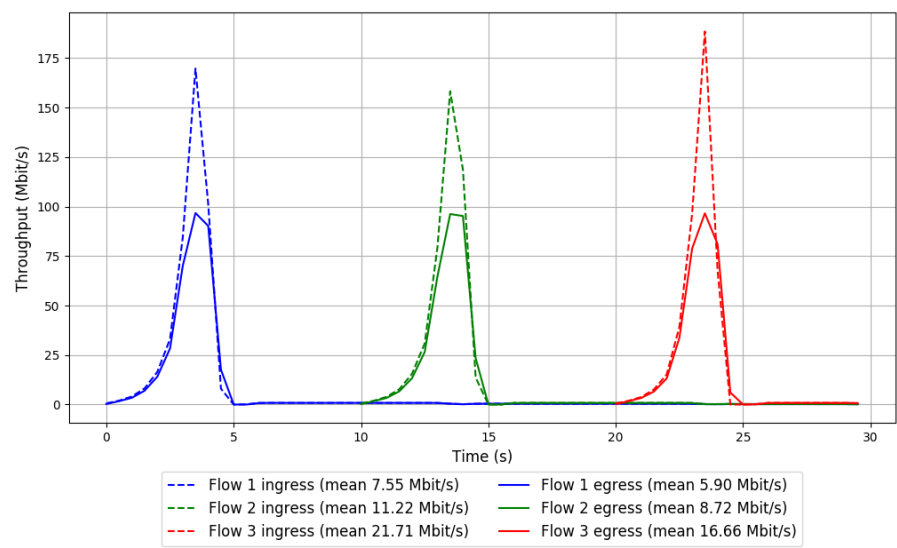
-- Flow 3:

Average throughput: 16.66 Mbit/s

95th percentile per-packet one-way delay: 119.697 ms

Loss rate: 23.26%

Run 7: Report of Vivace-LTE — Data Link



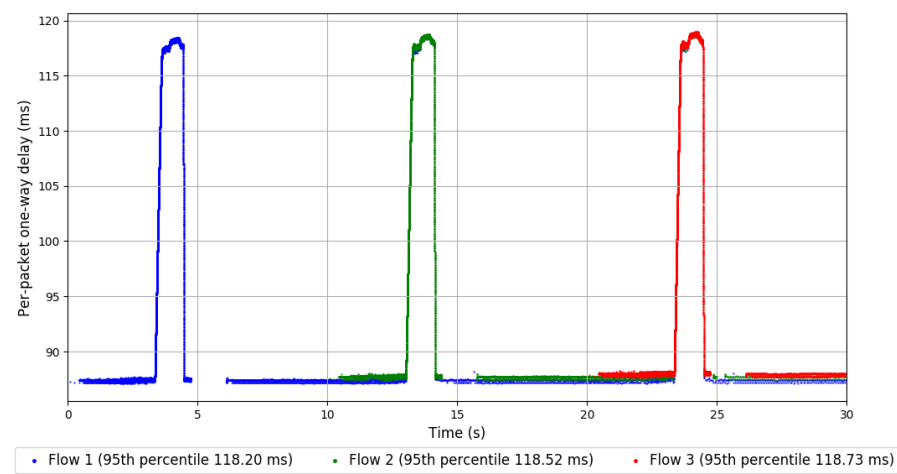
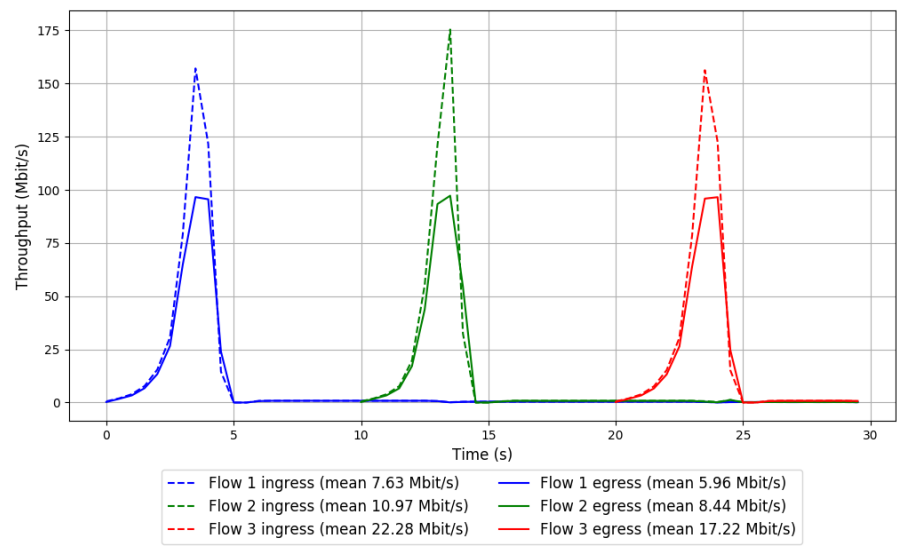
Run 8: Statistics of Vivace-LTE

Start at: 2018-01-17 05:37:51  
End at: 2018-01-17 05:38:21  
Local clock offset: 0.648 ms  
Remote clock offset: -0.978 ms

# Below is generated by plot.py at 2018-01-17 07:32:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.24 Mbit/s  
95th percentile per-packet one-way delay: 118.565 ms  
Loss rate: 22.57%  
-- Flow 1:  
Average throughput: 5.96 Mbit/s  
95th percentile per-packet one-way delay: 118.205 ms  
Loss rate: 21.94%  
-- Flow 2:  
Average throughput: 8.44 Mbit/s  
95th percentile per-packet one-way delay: 118.523 ms  
Loss rate: 23.09%  
-- Flow 3:  
Average throughput: 17.22 Mbit/s  
95th percentile per-packet one-way delay: 118.732 ms  
Loss rate: 22.71%



Run 8: Report of Vivace-LTE — Data Link

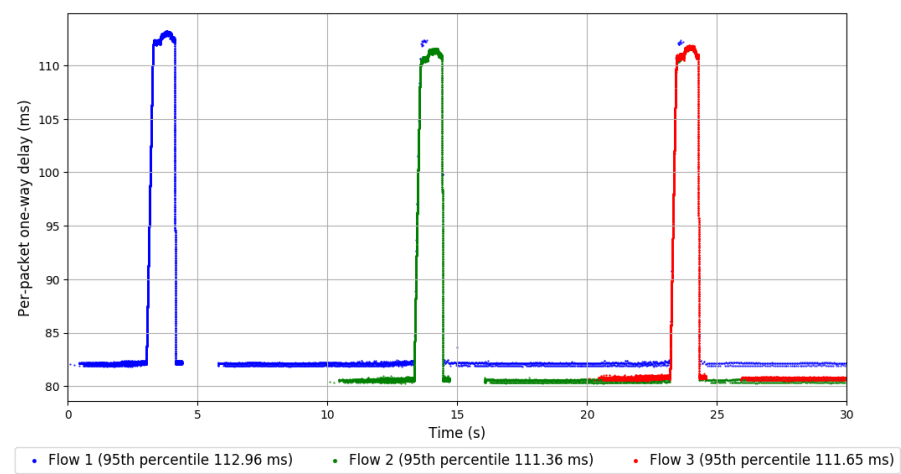
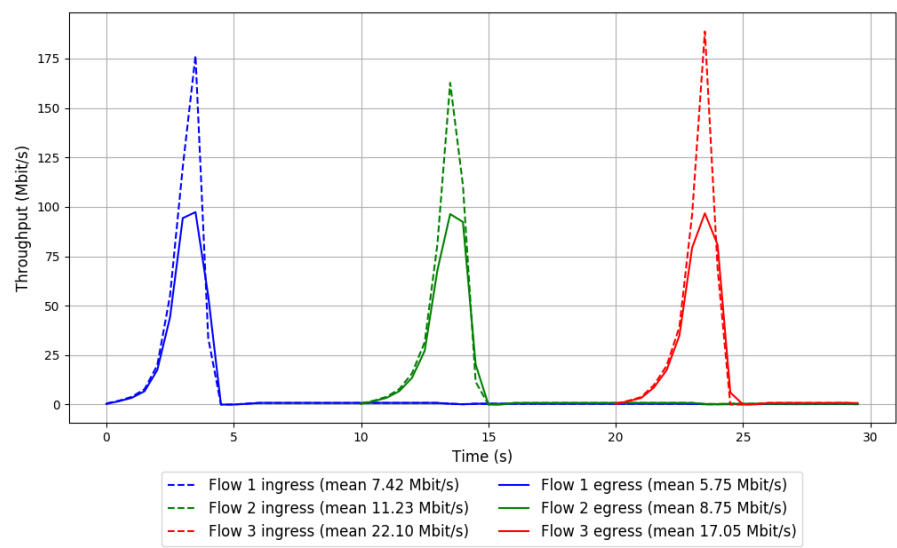


Run 9: Statistics of Vivace-LTE

Start at: 2018-01-17 06:01:10  
End at: 2018-01-17 06:01:40  
Local clock offset: 0.623 ms  
Remote clock offset: -6.256 ms

# Below is generated by plot.py at 2018-01-17 07:32:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.19 Mbit/s  
95th percentile per-packet one-way delay: 112.650 ms  
Loss rate: 22.45%  
-- Flow 1:  
Average throughput: 5.75 Mbit/s  
95th percentile per-packet one-way delay: 112.957 ms  
Loss rate: 22.42%  
-- Flow 2:  
Average throughput: 8.75 Mbit/s  
95th percentile per-packet one-way delay: 111.360 ms  
Loss rate: 22.10%  
-- Flow 3:  
Average throughput: 17.05 Mbit/s  
95th percentile per-packet one-way delay: 111.650 ms  
Loss rate: 22.85%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-17 06:24:40

End at: 2018-01-17 06:25:10

Local clock offset: 0.713 ms

Remote clock offset: -4.56 ms

# Below is generated by plot.py at 2018-01-17 07:32:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 17.46 Mbit/s

95th percentile per-packet one-way delay: 113.895 ms

Loss rate: 22.21%

-- Flow 1:

Average throughput: 5.97 Mbit/s

95th percentile per-packet one-way delay: 114.174 ms

Loss rate: 21.73%

-- Flow 2:

Average throughput: 8.74 Mbit/s

95th percentile per-packet one-way delay: 112.555 ms

Loss rate: 22.24%

-- Flow 3:

Average throughput: 17.24 Mbit/s

95th percentile per-packet one-way delay: 112.485 ms

Loss rate: 22.66%

# Run 10: Report of Vivace-LTE — Data Link

